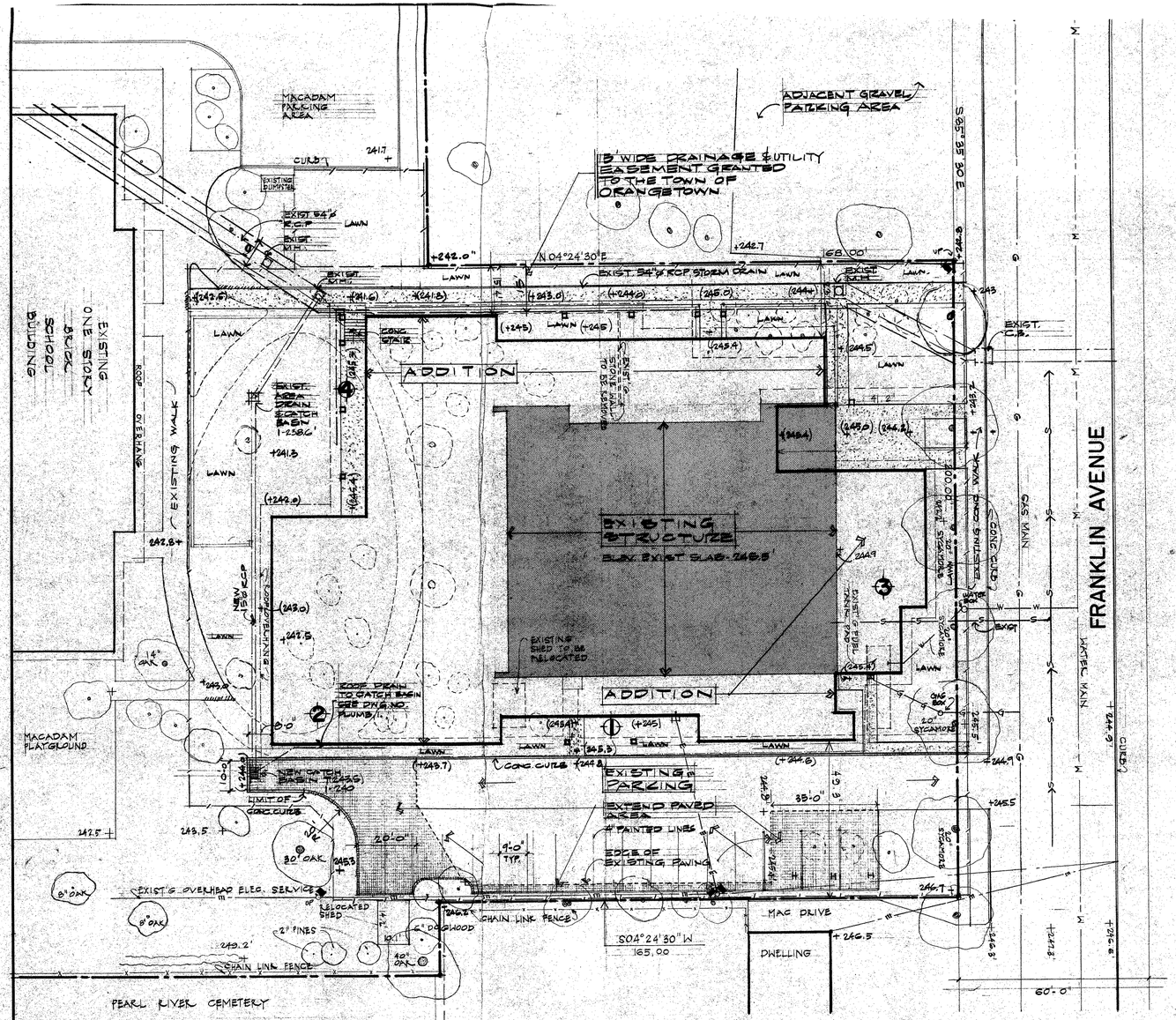
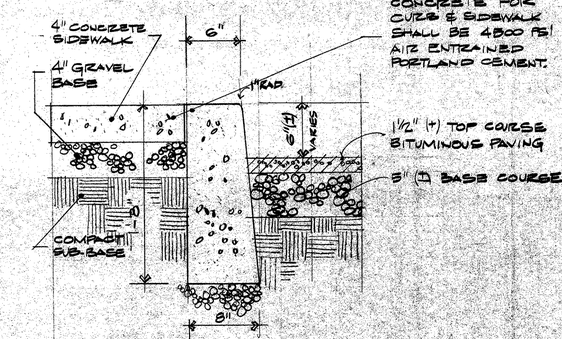


NOTE

THIS SITE PLAN IS BASED ON A SURVEY OF PROPERTY FOR THE PEARL RIVER PUBLIC LIBRARY. THIS SURVEY IS OF TAX LOT 8-93-7 AND PREPARED BY DILLIN & SORACE ASSOCIATES, PROFESSIONAL LAND SURVEYORS, NEW CITY, N.Y. DRAWING NO. RO 8707, DATED APRIL 7, 1987.

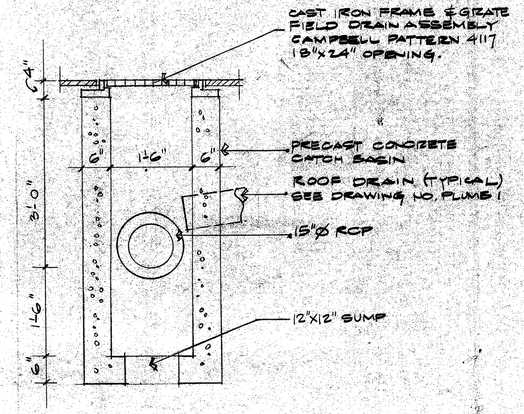
THE SURVEY UPON WHICH THIS SITE PLAN WAS PREPARED WAS OBTAINED BY THE OWNER FOR THE OWNER'S & ARCHITECT'S USE. THE INFORMATION ON THIS SURVEY IS SHOWN FOR THE BIDDERS USE BUT NEITHER THE OWNER OR ARCHITECT WARRANT THE ACCURACY OF THE INFORMATION.

TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED BELOW DISTURBED AREAS DURING CONSTRUCTION TO PROTECT ADJACENT PROPERTIES AND ELEMENTARY SCHOOL.



TYPICAL CURB & SIDEWALK

SCALE 1½"=1'0"



CATCH BASIN

SCALE 3/4"=1'0"

CODE CONFORMANCE

OCCUPANCY CLASSIFICATION	C5.1 - ASSEMBLY FOR NOT MORE THAN 300 PEOPLE LOW HAZARD FIRE AREA
CONSTRUCTION CLASSIFICATION	TYPE "2A" NON-COMBUSTIBLE CONSTRUCTION
ALLOWABLE FIRE AREA	FIRST STORY = 16,000 SF. +75% INCREASE = 12,000 ACCESS 3 SIDES TOTAL ALLOWABLE 28,000 SF PROPOSED PLUS EXISTING 60 FT. = 23,892 SF.

LEGEND

②	SOIL BORING LOCATION. SEE SECTION 2-D OF THE SPECIFICATIONS FOR SOIL LOGS.
——·——	PROPERTY LINE
—/——/—	CONTRACT LIMIT LINE
—S——S—	SANITARY SEWER. SEE DRAWING # PLUMB 1 FOR SEWER CONNECTION REQUIREMENTS.
—W——W—	WATER SERVICE. SEE DRAWING # PLUMB 1 FOR WATER SERVICE REQUIREMENTS.
—G——G—	GAS SERVICE. SEE DRAWING # PLUMB 1 FOR GAS SERVICE REQUIREMENTS.
—E——E—	ELECTRIC SERVICE. SEE DRAWING # ELECT 5 FOR ELECTRIC SERVICE REQUIREMENTS
	CONCRETE CURB & NEW BITUMINOUS PAVING. SEE SECTION 2D OF SPECIFICATIONS.
LAWN	GRASS SEEDING. SEE SECTION 2C OF SPECIFICATIONS. FINAL LANDSCAPING (NIC)
	CONCRETE SIDEWALK. SEE SECTION 2D OF SPECIFICATIONS. & DRAWING ARCH. 3
+245.5	EXISTING SPOT ELEVATION
(+245.5)	NEW SPOT ELEVATION
UP	"DISK TO DAWN" UTILITY POLE AREA LIGHTS TO BE SECURED BY OWNER FROM UTILITY CO.
⊛20"OAK	EXISTING TREES TO REMAIN AND PROTECTED DURING CONSTRUCTION
	EXISTING TREES TO BE REMOVED.
- - - - - - -	INDICATES TO BE REMOVED OR ALTERED
—— —— ——	STORM DRAIN & UTILITY EASEMENT
UP	EXISTING UTILITY POLE
	UNDERGROUND DRAINAGE PIPE.

DATES
NYSED APPROVAL 11/1/88
NYSED 1/2/89
FOR BID 2/2/89

REVISIONS

NYSED 50-03-08-09-6-006-001

CLIENT
ADDITION & ALTERATION TO THE
PEARL RIVER PUBLIC LIBRARY
80 FRANKLIN AVENUE / PEARL RIVER, NY

TITLE
SITE PLAN
SCALE 1"= 20'-0"

DRAWING
ARCH 1

JOB NO. 860

Michael Esmay Architecture • Planning • Interior Design
47 Van Houten Street, Upper Nyack, N.Y. 10960 (914) 358-0550

EXISTING CATCH BASIN

EXISTING 54"Ø RCP STORMDRAIN

REMOVE SECTION OF 54"Ø RCP. IF NECESSARY.

LIGHT POLE BASE & WIRING TO BE REMOVED (BY GEN. CONT.)

APPROX. LOCATION EXISTING 54"Ø RCP INVERT TO REMAIN

PROVIDE DIVERSION FOR EXISTING ROOF DRAINAGE DURING FIRST STAGE OF CONSTRUCTION.

EXISTING STONE WALL TO BE REMOVED (BY OWNER)

EXISTING CONC. SIDEWALK TO BE REMOVED (BY GEN. CONT.)

MAINTAIN EXISTING DOORS DURING COURSE OF CONSTRUCTION

PROPOSED LOCATION FOR OFFICE TRAILERS FOR LIBRARY STAFF USE. (BY OWNER)

TEMPORARILY ELECTRIC FROM POLE AT PROPERTY LINE. (BY OWNER)

REMOVE SECTION OF 54"Ø RCP

EXISTING SECTION OF WALK TO REMAIN DURING COURSE OF CONSTRUCTION

TEMPORARY ENTRY WALK - PEA GRAVEL COVER FOR FIRST STAGE (BY OWNER)

PROVIDE & INSTALL PROTECTIVE BARRIER AGAINST EXISTING GLASS WALL. BARRIER SHALL BE 2X4 - 16"o/c W/ 1/2" PLYWOOD SHEATHING.

REMOVE EXISTING ACOUSTICAL CEILING TILES & SUSPENSION SYSTEMS THROUGHOUT.

PROVIDE TEMPORARY EXIT DOOR (BY OWNER)

FIRST STAGE

SECOND STAGE

REMOVE EXISTING PLUMBING FIXTURES SEE DRAWING NO. PLUMB. 1.

CUT HOLES IN EXISTING SLAB TO ACCOMODATE NEW CONCRETE FOOTINGS. (SEE DWG. # S1 FOR SIZE & LOCATIONS.

EXISTING CONCRETE SIDEWALK TO BE REMOVED. (BY GEN. CONTR.)

REMOVE EXIST. CERAMIC TILE FROM EXIST. TOILETS.

REMOVE EXISTING CARPET SQUARES THROUGHOUT. SAVE SQUARES FOR USE IN FIRST STAGE FOR TEMPORARY FLOOR COVERING.

EXISTING VINYL TILE TO REMAIN. REMOVE TILE ONLY WHERE REQUIRED.

REMOVE EXISTING STEEL COLUMN SEE DRAWING NO. STRUCT. 8 FOR STEEL REMOVAL DRAWING.

UNCOVER EXISTING COLUMN FOOTING FOR INSPECTION BY STRUCTURAL ENGINEER SEE NOTES-DWG #S1

PROVIDE & INSTALL PROTECTIVE COVER & TEMPORARY EXIT CORRIDOR. WALLS SHALL CONSIST OF 2X4 - 16"o/c W/ 1/2" PLYWOOD BOTH SIDES. CEILING SHALL BE 2X6 - 16"o/c W/ 3/4" PLYWOOD ROOF.

ENLARGE EXISTING OPENING IN SLAB ABOVE TO RECEIVE NEW STAIR TO MECHANICAL LEVEL. SEE STRUCTURAL DRAWINGS.

EXIST. BOILER

EXISTING WOOD STORAGE BUILDING TO BE REMOVED BY OWNER.

LIGHT POLE BASE & WIRING TO BE REMOVED (BY GC)

PROVIDE TEMPORARY EXIT DOOR TO BE MAINTAINED THROUGH THE FIRST STAGE OF CONSTRUCTION

UNCOVER EXISTING COLUMN FOOTING FOR INSPECTION BY STRUCTURAL ENGINEER. SEE DWG. NO. S1

OUTLINE OF NEW CONSTRUCTION

REMOVE EXISTING CONCRETE SIDEWALK & CURB.

EXISTING PARKING AREA

WATER BOX

GAS BOX

PHASING NOTE

Construction shall be staged and performed in a way that will insure a safe and continuous occupancy of the building by the public. It is intended that work shall be done basically in two stages to allow for this occupancy. During the first stage of construction the existing structure will remain occupied with all mechanical systems remaining in operation. In addition the exterior walls will be protected with plywood covering, to prevent damage or injury to the occupied space during the entire course of construction. It is intended that at the end of the first stage of construction the Library will be able to move into the area created in the South and West sides of the new building indicated as First Stage on this drawing. The First Stage area shall have operational mechanical systems, toilets and qualify for a temporary Certificate of Occupancy from the controlling governmental agency. The First Stage will be occupied during the second stage of construction. After the First Stage is completed and occupied the Contractor(s) may commence the second stage of construction. At this time the Contractor(s) may demolish and or remove those elements of the existing structure that must be removed to complete the work except for the walls that separate First Stage from Second Stage. The removal of these walls shall be only at the direction of the Owner and Architect and when the second stage of construction is near completion. Where and when parts of these walls are removed to facilitate the construction of either First Stage or Second Stage the Contractor(s) will take great care to protect the occupants of the building at all times. When work is completed in these areas the openings must be sealed between the First Stage and Second Stage.

IT IS MANDATORY THAT THE CONTRACTOR(S) AND OWNER BE IN CONSTANT COMMUNICATION TO COORDINATE THEIR RESPECTIVE CONCERNS AND EFFORTS DURING THE COURSE OF THE CONSTRUCTION.

LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- STAGING LINE
- TEMPORARY PROTECTIVE BARRIER.
- CONSTRUCTION FENCE SUGGESTED LOCATION.

NOTE

SEE SPECIFICATIONS SECTION 2A FOR DEMOLITION & REMOVALS.

SEE DRAWING A4 & HVAC DRAWINGS FOR MECHANICAL LEVEL REMOVALS.

SEE DRAWING NO. PLUMB 1. FOR PLUMBING REMOVALS.

ALL EXISTING DUCTWORK IN CEILING TO BE REMOVED SEE HVAC DRAWINGS.

ALL EXISTING LIGHT FIXTURES TO BE REMOVED. SEE ELECT. DRAWINGS.

ALL EXISTING HEATING BASEBOARD & PIPING TO BE REMOVED SEE HVAC DRAWINGS.

DATES
PLANNING APPROVAL 11/1/88
REVISED 1/2/89
FOR BID 2/2/89

REVISIONS

ADDITION & ALTERATION TO THE
PEARL RIVER PUBLIC LIBRARY
80 FRANKLIN AVENUE / PEARL RIVER, NY

TITLE
DEMOLITION & REMOVALS
SCALE 1/8" = 1'-0"

DRAWING
ARCH
2

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17 Van Houten Street, Upper Nyack, N.Y. 10960 / (914) 358-0033

JOB NO.
860

PLANNED 50-03-06-05-8-005-001

NEW CONCRETE SIDEWALK

ADJUST EXIST'G CATCH BASIN SURFACE TO BE FLUSH W/ NEW CONC. WALK.

DETAIL 2 A-18

DETAIL 4 A-18

NEW CONCRETE SIDEWALK

ADJUST EXIST'G CATCH BASIN SURFACE TO BE FLUSH W/ TOP OF NEW CONCRETE SIDEWALK.

SEE DWG. # A-13 FOR TOILET ELEV.'S.

TRELLIS ABOVE

EXISTING STONE & CONC BLK. WALL TO REMAIN

SKYLIGHTS ABOVE

LOOP OVER HANG

EDGE OF EXISTING CONC. SLAB

EXISTING CONCRETE SIDEWALK

EDGE OF EXIST'G CONC SLAB

EDGE OF CONC SIDEWALK EQ.

EDGE OF EXISTING CONC. SLAB

OPEN TO ABOVE

DEPRESSION IN FLOOR TO RECEIVE FLOOR MAT.

EXISTING STEEL GIRDERS TO REMAIN

SKYLIGHTS ABOVE

EDGE OF UPPER COVE ABOVE

EDGE OF LOWER COVE ABOVE

SKYLIGHT ABOVE

DISPLAY CASE

FAN COIL UNIT SEE DWG # HVAC - 5

EXISTING COL. TO BE REMOVED.

FAN COIL UNIT SEE DWG # HVAC - 2

SEE KITCHEN ELEV'S. DWG. # A-15.

SEE DWG. # A-13 FOR TOILET ELEVATIONS

PARTITION (N.I.C.)

SHELVES

VAULT

OPEN TO ABOVE

EXIST'G STONE & CONC. BLK. WALL TO REMAIN.

EXIST'G STONE & CONC. BLK WALL TO REMAIN

5/8" GYP BD ON 1 5/8" FURRING CTS 16 ON EXIST'G 4" CONC BLK 2HR RATED PARTITION (N.I.C.)

EXIST'G STONE & CONC. BLK WALL TO BE REMOVED

CABINETS ABOVE & BELOW

SINK 28

EMERGENCY EXIT

EDGE OF LOWER COVE

EMERGENCY EXIT

EDGE OF UPPER COVE ABOVE

EDGE OF LOWER COVE ABOVE

NEW CONC. SIDEWALK

LOOP OVERHANG

LOOP OVERHANG

NEW CONC. SIDEWALK

24" x 8" CATCH BASIN

PARKING AREA

LEGEND

1 Exterior Entry
2 Entry Vestibule
3 Public Space
4 Mens' Toilet
5 Womens' Toilet
6 Closet
7 Projection Room
8 Childrens' Storyhour
9 Closet (typical)
10 Passage
11 Kitchen
12 Pantry
13 Storage
14 Passage
15 Childrens Library
16 Office 1
17 Passage
18 Passage
19 Board Room
20 Storage
21 Toilet 1
22 Toilet 2
23 Office Equipment Room
24 Coat Room
25 Mechanical Room
26 Office 2
27 Office 3
28 Staff Room
29 Work Room
30 Vestibule 2
31 Hub
32 Vestibule 3
33 Book Charge & Return
34 Pearl River Room
35 Fiction Stacks
36 Reading Area 1
37 Reference
38 Non-Fiction Stacks
39 Reading Area 2
40 Activity Room

WALL LEGEND

BRICK VENEER, HELD IN PLACE W/ METAL TIES ON 16" CENTER ON 5/8" GYP BD ON 6" METAL STUDS 16" o/c W/ 6" FULL FOIL BATT INSUL (LEAVE 1" AIR SPACE BETWEEN BRICK & GYP BD.) TYP EXTERIOR WALL.

NEW INTERIOR WALL SEE FIN. SCHEDULE, DWG. # A-8 FOR DETAILS.

EXISTING 4" CONC. BLK. WALL TO REMAIN.

EXISTING WALL TO BE REMOVED.

NEW PARTITION (N.I.C.)

INDICATES CHANGES IN CL'G. ABOVE OR ANYTHING THAT HAPPENS ABOVE (E.G. SKYLIGHTS OR TRELLIS)

FE FIRE EXTINGUISHER CABINET - WALL HUNG

DATES:
NYSED APPROVAL 11/1/89
NYSED 1/2/89
FOR BID 2/2/89

REVISIONS

NYSED 50-03-08-03-6-005-001

CLIENT
ADDITION & ALTERATION TO THE
PEARL RIVER PUBLIC LIBRARY
80 FRANKLIN AVENUE / PEARL RIVER, NY

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

DRAWING
ARCH 3

JOB NO. 8601

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17 Van Houten Street, Upper Nyack, N.Y. 10960 (914) 358-0933

LEGEND

1 Exterior Entry
2 Entry Vestibule
3 Public Space
4 Mens' Toilet
5 Womens' Toilet
6 Closet
7 Projection Room
8 Childrens' Storyhour
9 Closet (typical)
10 Passage
11 Kitchen
12 Pantry
13 Storage
14 Passage
15 Childrens Library
16 Office 1
17 Passage
18 Passage
19 Board Room
20 Storage
21 Toilet 1
22 Toilet 2
23 Office Equipment Room
24 Coat Room
25 Mechanical Room
26 Office 2
27 Office 3
28 Staff Room
29 Work Room
30 Vestibule 2
31 Hub
32 Vestibule 3
33 Book Charge & Return
34 Pearl River Room
35 Fiction Stacks
36 Reading Area 1
37 Reference
38 Non-Fiction Stacks
39 Reading Area 2
40 Activity Room

WALL LEGEND

BRICK VENEER HELD IN PLACE W/ METAL TIES ON 18# FELT ON 5/8" GYP BD ON 6" METAL STUDS 16" o/c W/ 6" FULL FOIL BATT INSUL (LEAVE AIR SPACE BETWEEN BRICK & GYP BD.) TYP EXTERIOR WALL.

NEW INTERIOR WALL SEE FIN. SCHEDULE, DWG. # A-8 FOR DETAILS.

EXISTING 4" CONC. BLK. WALL TO REMAIN.

EXISTING WALL TO BE REMOVED.

NEW PARTITION (NIC.)

INDICATES CHANGES IN GL'S ABOVE OR ANYTHING THAT HAPPENS ABOVE (E.G. SKYLIGHTS OR TRELLIS)

FE 11 FE 111 FIRE EXTINGUISHER CABINET - WALL HUNG

DATES
NYSED APPROVAL 11/1/88
NYSED 1/2/89
FOR BID 2/21/89

REVISIONS

NYSED 50-03-08-03-6-005-001

CLIENT
ADDITION & ALTERATION TO THE
PEARL RIVER PUBLIC LIBRARY
80 FRANKLIN AVENUE / PEARL RIVER, NY

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

DRAWING
ARCH 3

JOB NO. 8601

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17 Van Houten Street, Upper Nyack, N.Y. 10960 (914) 358-0933

LEGEND

- 2' x 2' RECESSED FLUORESCENT LIGHT FIXTURE
- SAME AS ABOVE EXCEPT 2' x 4'
- SAME AS ABOVE EXCEPT 1' x 4'
- RECESSED HI-HAT LIGHT FIXTURE.
- RECESSED INCANDESCENT WALL WASHER LIGHT FIXTURE.
- PENDANT MOUNTED STEM FLUORESCENT LIGHT FIXTURE
- TRACK LIGHTING
- PENDANT INCANDESCENT LIGHT FIXTURE
- 2' x 2' TEGULAR ACOUSTICAL TILE CEILING
- GNB GYPSUM WALL BOARD
- 3/16" x 6" T & G CEDAR SOFFIT.
- CEILING REGISTERS. SEE DWG #HVAC-2 & HVAC-3
- LINEAR DIFFUSER
- SWITCH ACTIVATED SCREEN
- SD SMOKE DETECTOR

TRELLIS

TRELLIS

TRELLIS

CONT. SLOT (TYP.)

CONT. SLOT (TYP.)

DATES	
NYSED	1/2/89
FOR BID	2/21/89

REVISIONS

NYSED 50-03-08-05-6-005-001

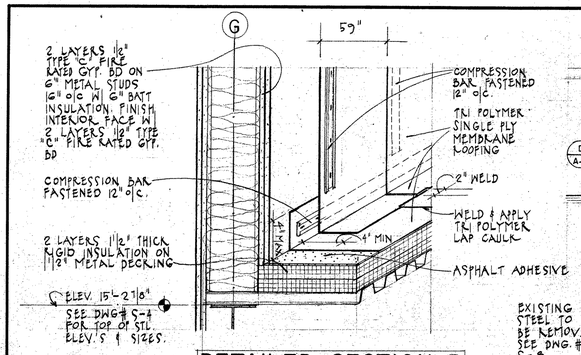
CLIENT
ADDITION & ALTERATION TO THE
PEARL RIVER PUBLIC LIBRARY
80 FRANKLIN AVENUE / PEARL RIVER, NY

TITLE
REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

DRAWING
ARCH
6

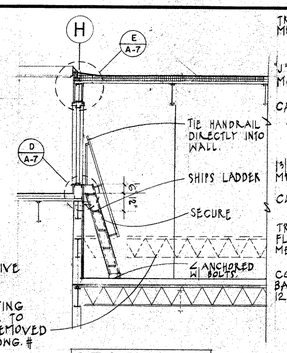
JOB NO. 8601

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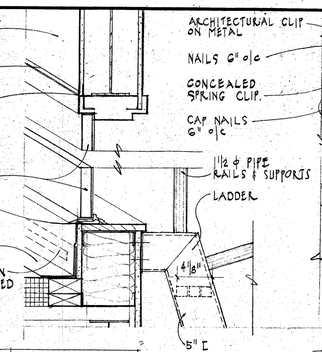
DETAILED SECTION B

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



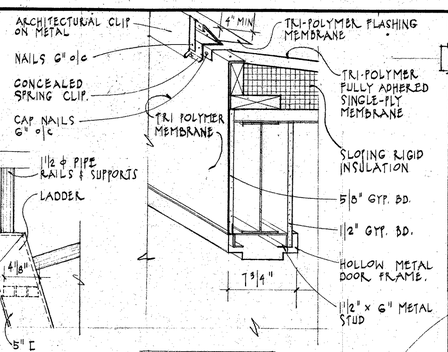
SECTION C

SCALE: 1/4" = 1' - 0"



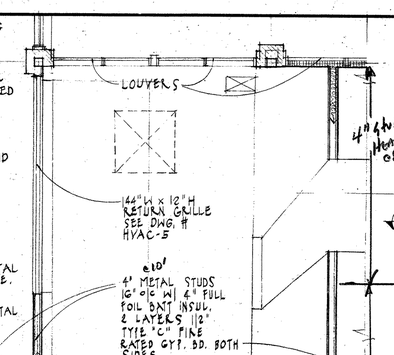
DETAIL D

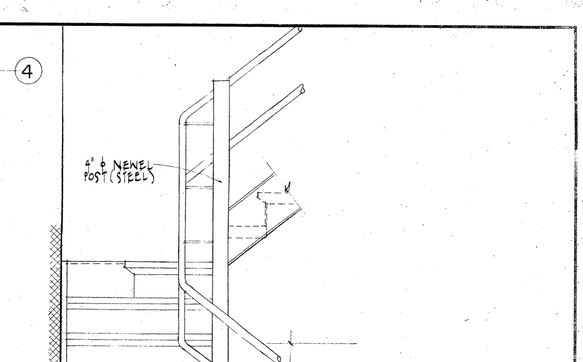
SCALE: 1 1/2" = 1' - 0"



DETAIL E

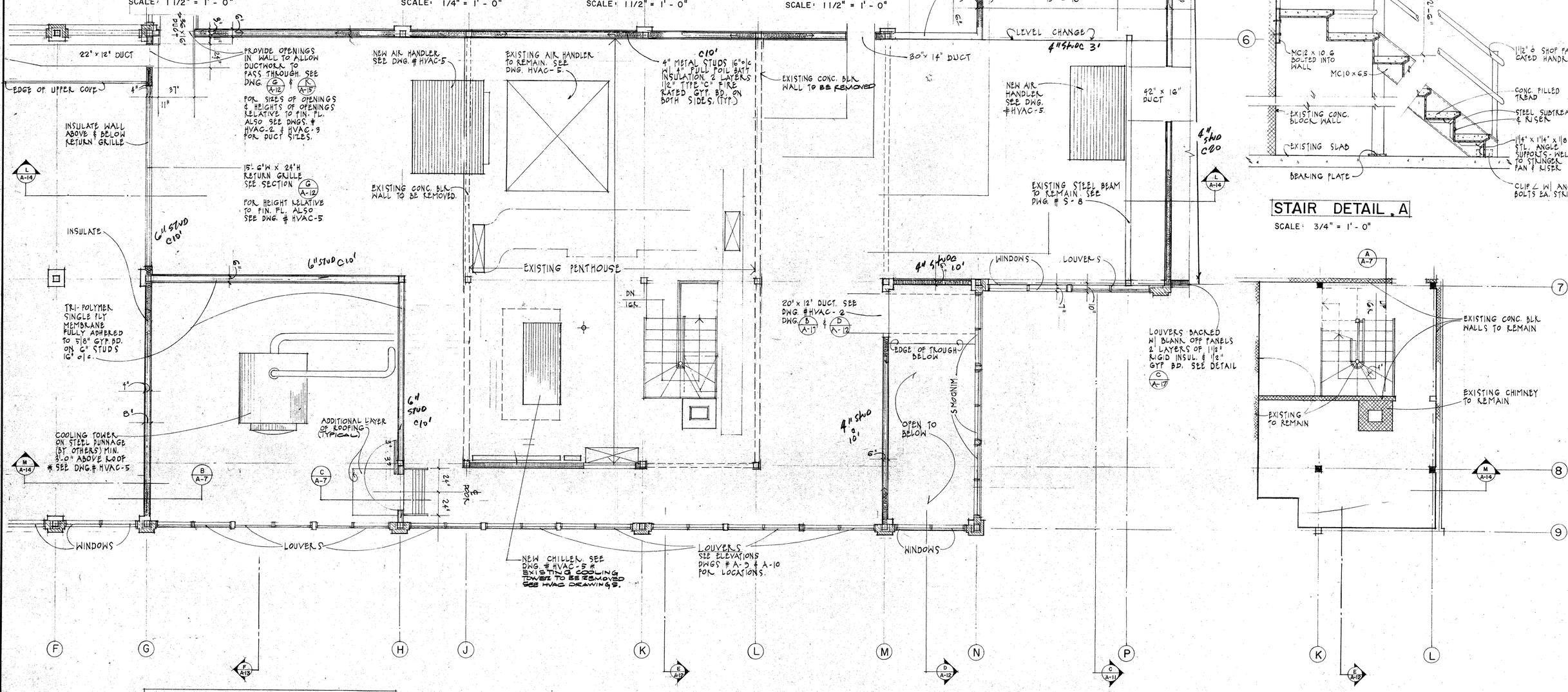
SCALE: 1 1/2" = 1' - 0"





STAIR DETAIL A

SCALE: 3/4" = 1' - 0"



PARTIAL SECOND FLOOR PLAN

SCALE: 1/4" = 1' - 0"

FIRST FLOOR MECHANICAL ROOM PLAN

SCALE: 1/4" = 1' - 0"

* NOTE:

SEE DWG. # HVAC-5 FOR INFO. PERTAINING TO MECHANICAL EQUIPMENT.

DATES	
NYSED APPROVAL	11|1|88
~~NYSED~~	1|12|89
FOR BID	2|21|89

REVISIONS

NYSED.. 50-03-08-03-6-005-001

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TITLE
PARTIAL FIRST & SECOND PLANS

DRAWING
ARCH 7

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JOB NO. **8601**

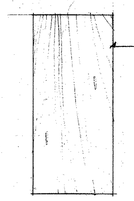
DOOR SCHEDULE

NO	SIZE	TYPE	FRM	HARDWARE								REMARKS
				LOCK	PASS	CLOSER	PANIC	VISION	PSH/PLL	KICK PL	SIGN	
1	* 2 PANEL 6'0" OPENING + SIDELTS			BREAK AWAY SIDE PANELS (AS PER NYSUFF & BC)								* AUTOMATIC SLIDING DOOR (SEE SPECS)
2	* 2 PANEL 6'0" OPENING + SIDELTS			BREAK AWAY SIDE PANELS (AS PER NYSUFF & BC)								* AUTOMATIC SLIDING DOOR (SEE SPECS)
3	3'0", 6'8", 1 3/4"	A WD SOL	1 HOL MET	● CYLINDER		●			●	●		
4	3'0", 6'8", 1 3/4"	A WD SOL	1 HOL MET	● CYLINDER		●			●	●		
5	2'6", 6'8", 1 3/4"	A WD SOL	1 HOL MET	●						●	●*	* STORAGE
6	2'6", 6'8", 1 3/4"	A WD SOL	1 HOL MET	●						●	●*	* JANITORS CLOSET
7	6'0", 6'8", 1 3/4"	B CLAD	WOOD	●		●	●			●		WEATHER STRIP
8	6'0", 6'8", 1 3/4"	B	WOOD	●		●	●			●		
9	3'0", 6'8", 1 3/4" W/SIDELITE	B	WOOD	●		●				●		
10	6'0", 6'8", 1 3/4"	B CLAD	WOOD	●		●	●			●		WEATHERSTRIP
11	6'0", 6'8", 1 3/4"	B	WOOD	●		●	●			●		
12	6'0", 6'8", 1 3/4"	B	WOOD	●		●	●			●		
13	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET	●						●	●*	* PROJECTION ROOM 1 1/2 HR FIRE RATED
14	6'0", 7'0", 1 3/4"	A * WD MOV	1 HOL MET									* SLIDING BYPASS
15	3'0", 7'0", 1 3/4	A 1 WD SOL	1 HOL MET	●		●		● 6"x24"		●	●*	* STORY HOUR ROOM 1 1/2 HR. FIRE RATED
16	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET	●		●				●		
17	3'0", 7'0", 1 3/4"	A 1 WD SOL	1 HOL MET	●		●		● 6"x24"		●	●*	* BOARD ROOM 1 1/2 HR FIRE RATED
18	3'0", 7'0", 1 3/4"	A WD, SOL	1 HOL MET	●		●				●	●*	* STORAGE 1 1/2 HR FIRE RATED
19	3'0", 7'0", 1 3/4"	A 1 WD SOL	1 HOL MET	●		●		● 6"x24"		●	●*	* BOARD ROOM 1 1/2 HR FIRE RATED
20	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET	●		●				●	●*	* STAFF
21	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET		● PRIVACY BUT	●				●	●*	* WOMEN 1 1/2 HR FIRE RATED
22	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET		● PRIVACY BUT	●				●	●*	* MEN 1 1/2 HR FIRE RATED
23	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET	●						●		
24	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
25	3'0", 7'0", 1 3/4"	A 1 WD SOL	1 HOL MET	●		●		● 6"x24"		●	●*	* STAFF 1 1/2 HR FIRE RATED
26	6'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●	●	● 6"x24"		●	●*	* CHILDRENS ROOM 1 1/2 HR. FIRE RATED
27	3'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●		● 6"x24"		●	●*	* STORY HOUR 1 1/2 HR FIRE RATED
28	3'0", 7'0", 1 3/4"	A * WD SOL	HOL MET									* BI-FOLD
29	3'0", 7'0", 1 3/4"	A * WD SOL	HOL MET									* BI-FOLD
30	2'6", 6'8", 1 3/4"	C HOL MET	HOL MET	●								
31	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET		●	●				●		
32	3'0", 7'0", 1 3/4"	C HOL MET	HOL MET	●		●					●*	2 HR FIRE RATED - * MECHANICAL ROOM
33	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
34	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●		●	●	● 6"x24"		●	●*	* CHILDRENS ROOM 1 1/2 HR FIRE RATED
35	3'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●	●	● 6"x24"		●	●*	* ACTIVITY ROOM 1 1/2 HR FIRE RATED
36	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●		●				●	●*	* KITCHEN 1 1/2 HR FIRE RATED
37	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
38	3'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●		● 6"x24"		●		
39	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●	●	1 1/2 HR FIRE RATED
40	3'0", 7'0", 1 3/4"	A HOL MET	HOL MET	●		●	●					WEATHER STRIP
41	3'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●		● 6"x24"		●		
42	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
43	2'6", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
44	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
45	3'0", 6'8", 1 3/4"	B	WOOD	●		●	●			●		WEATHERSTRIP
46	3'0", 6'8", 1 3/4"	B CLAD	WOOD	●		●	●			●		WEATHER STRIP

← PUTAH DOOR

DOOR TYPES

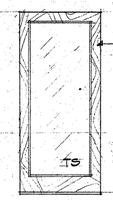
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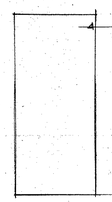
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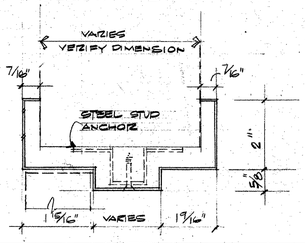


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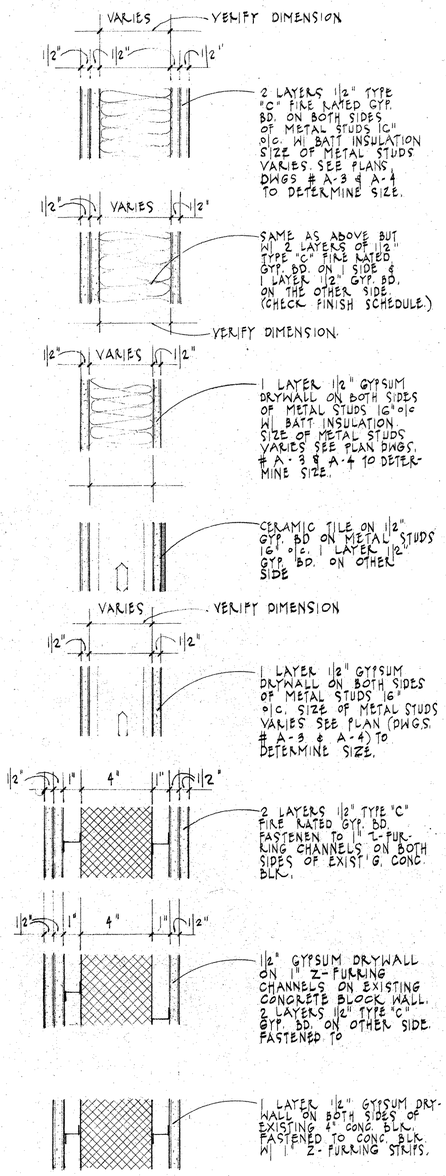


FRAME

TYPICAL HOLLOW METAL



WALL TYPES



FINISH SCHEDULE

	SPACE	FLOOR	WALLS				BASE	CEILING	REMARKS
			NORTH	SOUTH	EAST	WEST			
1	EXTERIOR ENTRY	CERAMIC TILE	N.A.	GLASS	BRICK	BRICK	NA	WOOD ON GYP. BD	
2	ENTRY VESTIBULE	CERAMIC TILE	GLASS	GLASS	BRICK & GLASS	BRICK & GLASS	NA	WOOD ON GYP BD	
3	PUBLIC SPACE	CERAMIC TILE	GYP. BD + TILE 90P	GYP. BD & GLASS	BRICK	GYP. BD.	WOOD	SUSP. AC	
4	MEN'S TOILET	CERAMIC TILE	CER. TILE GYP. BD.	CER. TILE GYP. BD	CER. TILE & GYP. BD	GYP. BD	CER. TILE 4" COVE	SUSP. AC	
5	WOMENS' TOILET	CERAMIC TILE	CER. TILE GYP. BD	CER. TILE GYP. BD	EXIST STONE	CER. TILE & GYP. BD	CER. TILE 4" COVE	SUSP. AC.	
6	CLOSET	CERAMIC TILE	GYP. BD	GYP BD	GYP BD	GYP. BD	CER. TILE	SUSP AC	
7	PROJECTION ROOM	VINYL TILE	GYP. BD & GLASS	GYP. BD	GYP. BD & GLASS	GYP. BD	VINYL	SUSP. AC	
8	CHILDRENS STORY HOUR	CARPET (NIC)	GYP. BD & GLASS	GYP. BD *	GYP BD.	GYP. BD & GLASS	WOOD	SUSP. AC.	* 2HR FIRE RATED
9	CLOSET (TYPICAL)	CARPET (NIC) *	GYP. BD	GYP. BD	GYP BD	GYP. BD	WOOD	SUSP. AC	* CER. TILE IN SINK ADJ. TO TOILET #4
10	PASSAGE	CARPET (NIC)	GYP. BD	GYP. BD	GYP. BD	GYP. BD.	WOOD	SUSP. AC.	
11	KITCHEN	VINYL TILE	GYP. BD	GYP. BD	GYP. BD	GYP. BD	VINYL	SUSP. AC.	
12	PANTRY	VINYL TILE	GYP. BD	GYP. BD *	GYP. BD	GYP. BD.	WOOD	SUSP. AC	* 2 HR. FIRE RA 2 LAYERS TYPE
13	STORAGE	VINYL TILE	GYP. BD	GYP. BD *	GYP. BD	GYP. BD	VINYL	SUSP. AC	* 2 HR. FIRE RA 2 LAYERS TYPE
14	PASSAGE	VINYL TILE	GYP. BD. *	GYP. BD *	GYP. BD	GYP. BD	VINYL	SUSP. AC.	* 2 HR FIRE RA 2 LAYERS TYPE
15	CHILDRENS' LIBRARY	CARPET (NIC)	GYP. BD *	GYP. BD	GYP. BD GLASS & BRICK	GYP. BD.	WOOD	SUSP. AC & GYP. BD **	* 2 HR. FIRE RA ** GYP. BD. IN SHAFT WALL
16	OFFICE #1	CARPET (NIC)	GYP. BD	GYP. BD *	N.A.	GYP. BD.	WOOD	SUSP. AC.	* 2 HR. FIRE RA 2 LAYERS TYPE 'C'
17	PASSAGE	CARPET (NIC)	GYP. BD *	GYP. BD *	GYP. BD *	N.A.	WOOD	SUSP. AC	* 2 HR. FIRE RA 2 LAYERS TYPE
18	PASSAGE	CARPET (NIC)	GYP. BD *	N.A.	GYP. BD *	GYP. BD *	WOOD	SUSP. AC	* 2 HR. FIRE RA 2 LAYERS TYPE
19	BOARD ROOM	CARPET (NIC)	GYP. BD *	GYP BD	GYP. BD	GYP. BD	WOOD	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
20	STORAGE	VINYL TILE	GYP. BD *	GYP BD *	GYP. BD *	GYP. BD *	VNYL	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
21	STAFF TOILET #1	CERAMIC TILE	CER. TILE & GYP. BD	GYP BD	CER. TILE & GYP. BD	CER. TILE & GYP. BD *	CER. TILE	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
22	STAFF TOILET #2	CERAMIC TILE	GYP. BD	CER. TILE & GYP. BD	CER. TILE & GYP. BD	CER. TILE & GYP BD *	CER. TILE	SUSP. AC.	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
23	OFFICE EQUIPMENT	CARPET (NIC) *	GYP. BD	GYP. BD	GYP. BD	GYP. BD.	WOOD	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
24	COAT ROOM	CARPET (NIC) *	GYP. BD	GYP. BD	GYP. BD	GYP. BD	WOOD	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
25	MECH. ROOM	CONCRETE (EXIST.)	CONC. BLK EXIST *	CONC. BLK EXIST *	CONC. BLK EXIST *	CONC. BLK EXIST. *	NA.	EXIST.	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
26	OFFICE #2	CARPET (NIC)	GYP. BD	GYP. BD.	GYP. BD & GLASS	GYP. BD	WOOD	SUSP. AC	
27	OFFICE #3	CARPET (NIC)	GYP. BD.	GYP. BD.	GYP. BD & GLASS	GYP. BD & EXIST. STONE	WOOD	SUSP. AC	
28	STAFF ROOM	CERAMIC TILE	GYP. BD.	GYP. BD.	GYP. BD & GLASS	N.A.	WOOD	SUSP. AC.	
29	WORK ROOM	CARPET (NIC)	GYP. BD.	GYP. BD & GLASS	N.A.	GYP. BD.	WOOD	SUSP. AC	
30	VESTIBULE #2	CERAMIC TILE	GYP. BD	GYP. BD & GLASS	GYP. BD.	GYP. BD	CER. TILE	GYP. BD.	
31	HUB (PUBLIC)	CARPET (NIC)	GLASS & GYP. BD	N.A.	GYP. BD	GYP. BD	WOOD	SUSP. AC & GYP. BD *	* GYP. BD ON LOW CEILINGS
32	VESTIBULE #2	CERAMIC TILE	GYP. BD.	GYP. BD.	GYP. BD	GYP. BD.	N.A.	GYP. BD	
33	CHARGE & RETURN	CARPET (NIC)	GYP. BD & GLASS	GYP. BD & GLASS	N.A.	GYP. BD GLASS &	WOOD	SUSP. AC.	
34	PEARL RIVER RM.	CARPET (NIC)	GYP. BD & GLASS	GYP. BD	EXIST. STONE	GYP. BD GLASS &	WOOD	GYP. BD.	
35	FICTION STACKS	CARPET (NIC)	GYP. BD	GYP. BD	N.A.	GYP. BD & GLASS	WOOD	SUSP. AC & GYP. BD *	* GYP. BD ON LOW CEILING
36	READING AREA #1	CARPET (NIC)	NA.	GYP. BD. GLASS	N.A.	N.A.	WOOD	SUSP. AC & GYP. BD *	* GYP. BD ON LOW CEILING
37	REFERENCE	CARPET (NIC)	NA	GYP. BD & GLASS	N.A.	N.A.	WOOD	SUSP. AC & GYP. BD *	* GYP. BD ON LOW CEILING
38	NON-FICTION STACKS	CARPET (NIC)	GYP. BD & GLASS	N.A.	GYP. BD	N.A.	WOOD	SUSP. AC	
39	READING AREA #2	CARPET (NIC)	N.A.	GYP. BD & GLASS	GYP. BD & GLASS	GYP. BD & GLASS	WOOD	GYP. BD & SUSP. AC *	* GYP. BD ON LOW CEILING
40	ACTIVITY ROOM	CARPET (NIC)	GYP. BD	GYP. BD & GLASS	GYP. BD	GYP. BD	WOOD	SUSP. AC.	
41	MECH. EQUIPMENT	CONCRETE	UNFINISH	UNFINISH	UNFINISH	UNFINISH	NA	UNFINISH	

LEGEND

CARPET (NIC)	- CARPET NOT IN CONTRACT - BY OWNER AT FUTURE DATE.
GYP. BD	- GYPSUM DRYWALL CONSTRUCTION
SUSP. AC.	- SUSPENDED ACOUSTIC PANEL CEILING
CER. TILE	- CERAMIC TILE

DATES
NYSED APPROVAL - 11/1/88
NYSED - 1/2/89
FOR BID - 2/2/89

REVISIONS

NYSED 50-03-08-03-6-005-001

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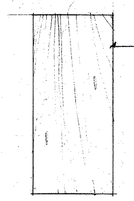
DOOR SCHEDULE

NO	SIZE	TYPE	FRM	HARDWARE								REMARKS
				LOCK	PASS	CLOSER	PANIC	VISION	PSH/PLL	KICK PL	SIGN	
1	* 2 PANEL 6'0" OPENING + SIDELTS			BREAK AWAY SIDE PANELS (AS PER NYSUFF & BC)								* AUTOMATIC SLIDING DOOR (SEE SPECS)
2	* 2 PANEL 6'0" OPENING + SIDELTS			BREAK AWAY SIDE PANELS (AS PER NYSUFF & BC)								* AUTOMATIC SLIDING DOOR (SEE SPECS)
3	3'0", 6'8", 1 3/4"	A WD SOL	1 HOL MET	● CYLINDER		●			●	●		
4	3'0", 6'8", 1 3/4"	A WD SOL	1 HOL MET	● CYLINDER		●			●	●		
5	2'6", 6'8", 1 3/4"	A WD SOL	1 HOL MET	●						●	●*	* STORAGE
6	2'6", 6'8", 1 3/4"	A WD SOL	1 HOL MET	●						●	●*	* JANITORS CLOSET
7	6'0", 6'8", 1 3/4"	B CLAD	WOOD	●		●	●			●		WEATHER STRIP
8	6'0", 6'8", 1 3/4"	B	WOOD	●		●	●			●		
9	3'0", 6'8", 1 3/4" W/SIDELITE	B	WOOD	●		●				●		
10	6'0", 6'8", 1 3/4"	B CLAD	WOOD	●		●	●			●		WEATHERSTRIP
11	6'0", 6'8", 1 3/4"	B	WOOD	●		●	●			●		
12	6'0", 6'8", 1 3/4"	B	WOOD	●		●	●			●		
13	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET	●						●	●*	* PROJECTION ROOM 1 1/2 HR FIRE RATED
14	6'0", 7'0", 1 3/4"	A * WD MOV	1 HOL MET									* SLIDING BYPASS
15	3'0", 7'0", 1 3/4	A 1 WD SOL	1 HOL MET	●		●		● 6"x24"		●	●*	* STORY HOUR ROOM 1 1/2 HR. FIRE RATED
16	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET	●		●				●		
17	3'0", 7'0", 1 3/4"	A 1 WD SOL	1 HOL MET	●		●		● 6"x24"		●	●*	* BOARD ROOM 1 1/2 HR FIRE RATED
18	3'0", 7'0", 1 3/4"	A WD, SOL	1 HOL MET	●		●				●	●*	* STORAGE 1 1/2 HR FIRE RATED
19	3'0", 7'0", 1 3/4"	A 1 WD SOL	1 HOL MET	●		●		● 6"x24"		●	●*	* BOARD ROOM 1 1/2 HR FIRE RATED
20	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET	●		●				●	●*	* STAFF
21	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET		● PRIVACY BUT	●				●	●*	* WOMEN 1 1/2 HR FIRE RATED
22	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET		● PRIVACY BUT	●				●	●*	* MEN 1 1/2 HR FIRE RATED
23	3'0", 7'0", 1 3/4"	A WD SOL	1 HOL MET	●						●		
24	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
25	3'0", 7'0", 1 3/4"	A 1 WD SOL	1 HOL MET	●		●		● 6"x24"		●	●*	* STAFF 1 1/2 HR FIRE RATED
26	6'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●	●	● 6"x24"		●	●*	* CHILDRENS ROOM 1 1/2 HR. FIRE RATED
27	3'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●		● 6"x24"		●	●*	* STORY HOUR 1 1/2 HR FIRE RATED
28	3'0", 7'0", 1 3/4"	A * WD SOL	HOL MET									* BI-FOLD
29	3'0", 7'0", 1 3/4"	A * WD SOL	HOL MET									* BI-FOLD
30	2'6", 6'8", 1 3/4"	C HOL MET	HOL MET	●								
31	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET		●	●				●		
32	3'0", 7'0", 1 3/4"	C HOL MET	HOL MET	●		●					●*	2 HR FIRE RATED - * MECHANICAL ROOM
33	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
34	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●		●	●	● 6"x24"		●	●*	* CHILDRENS ROOM 1 1/2 HR FIRE RATED
35	3'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●	●	● 6"x24"		●	●*	* ACTIVITY ROOM 1 1/2 HR FIRE RATED
36	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●		●				●	●*	* KITCHEN 1 1/2 HR FIRE RATED
37	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
38	3'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●		● 6"x24"		●		
39	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●	●	1 1/2 HR FIRE RATED
40	3'0", 7'0", 1 3/4"	A HOL MET	HOL MET	●		●	●					WEATHER STRIP
41	3'0", 7'0", 1 3/4"	A 1 WD SOL	HOL MET	●		●		● 6"x24"		●		
42	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
43	2'6", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
44	3'0", 7'0", 1 3/4"	A WD SOL	HOL MET	●						●		
45	3'0", 6'8", 1 3/4"	B	WOOD	●		●	●			●		WEATHERSTRIP
46	3'0", 6'8", 1 3/4"	B CLAD	WOOD	●		●	●			●		WEATHER STRIP

← PUTAH DOOR

DOOR TYPES

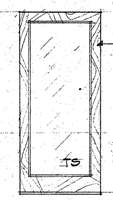
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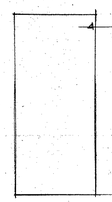
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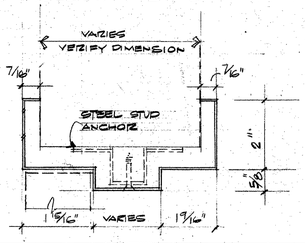


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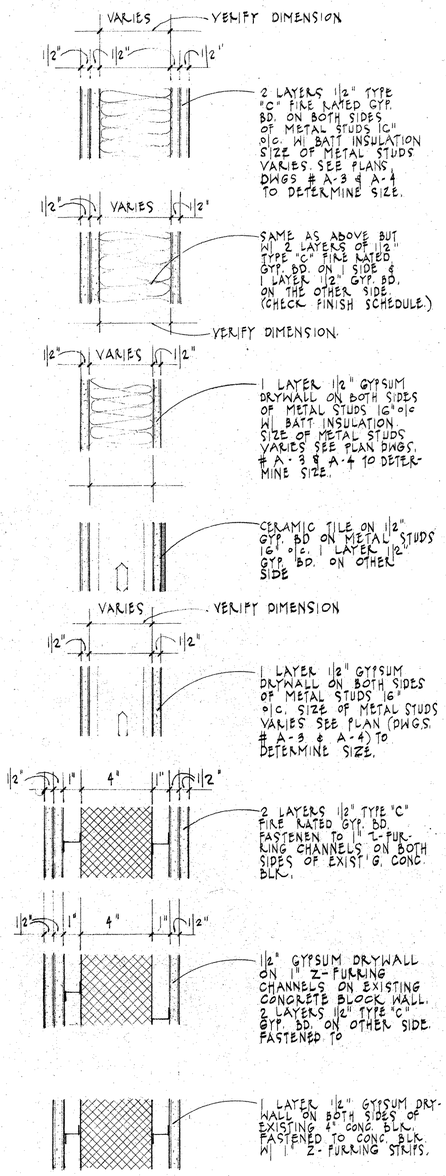


FRAME

TYPICAL HOLLOW METAL



WALL TYPES



FINISH SCHEDULE

	SPACE	FLOOR	WALLS				BASE	CEILING	REMARKS
			NORTH	SOUTH	EAST	WEST			
1	EXTERIOR ENTRY	CERAMIC TILE	N.A.	GLASS	BRICK	BRICK	NA	WOOD ON GYP. BD	
2	ENTRY VESTIBULE	CERAMIC TILE	GLASS	GLASS	BRICK & GLASS	BRICK & GLASS	NA	WOOD ON GYP BD	
3	PUBLIC SPACE	CERAMIC TILE	GYP. BD + TILE 90P	GYP. BD & GLASS	BRICK	GYP. BD.	WOOD	SUSP. AC	
4	MEN'S TOILET	CERAMIC TILE	CER. TILE GYP. BD.	CER. TILE GYP. BD	CER. TILE & GYP. BD	GYP. BD	CER. TILE 4" COVE	SUSP. AC	
5	WOMENS' TOILET	CERAMIC TILE	CER. TILE GYP. BD	CER. TILE GYP. BD	EXIST STONE	CER. TILE & GYP. BD	CER. TILE 4" COVE	SUSP. AC.	
6	CLOSET	CERAMIC TILE	GYP. BD	GYP BD	GYP BD	GYP. BD	CER. TILE	SUSP AC	
7	PROJECTION ROOM	VINYL TILE	GYP. BD & GLASS	GYP. BD	GYP. BD & GLASS	GYP. BD	VINYL	SUSP. AC	
8	CHILDRENS STORY HOUR	CARPET (NIC)	GYP. BD & GLASS	GYP. BD *	GYP BD.	GYP. BD & GLASS	WOOD	SUSP. AC.	* 2HR FIRE RATED
9	CLOSET (TYPICAL)	CARPET (NIC) *	GYP. BD	GYP. BD	GYP BD	GYP. BD	WOOD	SUSP. AC	* CER. TILE IN SINK ADJ. TO TOILET #4
10	PASSAGE	CARPET (NIC)	GYP. BD	GYP. BD	GYP. BD	GYP. BD.	WOOD	SUSP. AC.	
11	KITCHEN	VINYL TILE	GYP. BD	GYP. BD	GYP. BD	GYP. BD	VINYL	SUSP. AC.	
12	PANTRY	VINYL TILE	GYP. BD	GYP. BD *	GYP. BD	GYP. BD.	WOOD	SUSP. AC	* 2 HR. FIRE RA 2 LAYERS TYPE
13	STORAGE	VINYL TILE	GYP. BD	GYP. BD *	GYP. BD	GYP. BD	VINYL	SUSP. AC	* 2 HR. FIRE RA 2 LAYERS TYPE
14	PASSAGE	VINYL TILE	GYP. BD. *	GYP. BD *	GYP. BD	GYP. BD	VINYL	SUSP. AC.	* 2 HR FIRE RA 2 LAYERS TYPE
15	CHILDRENS' LIBRARY	CARPET (NIC)	GYP. BD *	GYP. BD	GYP. BD GLASS & BRICK	GYP. BD.	WOOD	SUSP. AC & GYP. BD **	* 2 HR. FIRE RA ** GYP. BD. IN SHAFT WALL
16	OFFICE #1	CARPET (NIC)	GYP. BD	GYP. BD *	N.A.	GYP. BD.	WOOD	SUSP. AC.	* 2 HR. FIRE RA 2 LAYERS TYPE 'C'
17	PASSAGE	CARPET (NIC)	GYP. BD *	GYP. BD *	GYP. BD *	N.A.	WOOD	SUSP. AC	* 2 HR. FIRE RA 2 LAYERS TYPE
18	PASSAGE	CARPET (NIC)	GYP. BD *	N.A.	GYP. BD *	GYP. BD *	WOOD	SUSP. AC	* 2 HR. FIRE RA 2 LAYERS TYPE
19	BOARD ROOM	CARPET (NIC)	GYP. BD *	GYP BD	GYP. BD	GYP. BD	WOOD	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
20	STORAGE	VINYL TILE	GYP. BD *	GYP BD *	GYP. BD *	GYP. BD *	VNYL	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
21	STAFF TOILET #1	CERAMIC TILE	CER. TILE & GYP. BD	GYP BD	CER. TILE & GYP. BD	CER. TILE & GYP. BD *	CER. TILE	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
22	STAFF TOILET #2	CERAMIC TILE	GYP. BD	CER. TILE & GYP. BD	CER. TILE & GYP. BD	CER. TILE & GYP BD *	CER. TILE	SUSP. AC.	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
23	OFFICE EQUIPMENT	CARPET (NIC) *	GYP. BD	GYP. BD	GYP. BD	GYP. BD.	WOOD	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
24	COAT ROOM	CARPET (NIC) *	GYP. BD	GYP. BD	GYP. BD	GYP. BD	WOOD	SUSP. AC	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
25	MECH. ROOM	CONCRETE (EXIST.)	CONC. BLK EXIST *	CONC. BLK EXIST *	CONC. BLK EXIST *	CONC. BLK EXIST. *	NA.	EXIST.	* 2 HR. FIRE RATED 2 LAYERS TYPE 'C'
26	OFFICE #2	CARPET (NIC)	GYP. BD	GYP. BD.	GYP. BD & GLASS	GYP. BD	WOOD	SUSP. AC	
27	OFFICE #3	CARPET (NIC)	GYP. BD.	GYP. BD.	GYP. BD & GLASS	GYP. BD & EXIST. STONE	WOOD	SUSP. AC	
28	STAFF ROOM	CERAMIC TILE	GYP. BD.	GYP. BD.	GYP. BD & GLASS	N.A.	WOOD	SUSP. AC.	
29	WORK ROOM	CARPET (NIC)	GYP. BD.	GYP. BD & GLASS	N.A.	GYP. BD.	WOOD	SUSP. AC	
30	VESTIBULE #2	CERAMIC TILE	GYP. BD	GYP. BD & GLASS	GYP. BD.	GYP. BD	CER. TILE	GYP. BD.	
31	HUB (PUBLIC)	CARPET (NIC)	GLASS & GYP. BD	N.A.	GYP. BD	GYP. BD	WOOD	SUSP. AC & GYP. BD *	* GYP. BD ON LOW CEILINGS
32	VESTIBULE #2	CERAMIC TILE	GYP. BD.	GYP. BD.	GYP. BD	GYP. BD.	N.A.	GYP. BD	
33	CHARGE & RETURN	CARPET (NIC)	GYP. BD & GLASS	GYP. BD & GLASS	N.A.	GYP. BD GLASS &	WOOD	SUSP. AC.	
34	PEARL RIVER RM.	CARPET (NIC)	GYP. BD & GLASS	GYP. BD	EXIST. STONE	GYP. BD GLASS &	WOOD	GYP. BD.	
35	FICTION STACKS	CARPET (NIC)	GYP. BD	GYP. BD	N.A.	GYP. BD & GLASS	WOOD	SUSP. AC & GYP. BD *	* GYP. BD ON LOW CEILING
36	READING AREA #1	CARPET (NIC)	NA.	GYP. BD. GLASS	N.A.	N.A.	WOOD	SUSP. AC & GYP. BD *	* GYP. BD ON LOW CEILING
37	REFERENCE	CARPET (NIC)	NA	GYP. BD & GLASS	N.A.	N.A.	WOOD	SUSP. AC & GYP. BD *	* GYP. BD ON LOW CEILING
38	NON-FICTION STACKS	CARPET (NIC)	GYP. BD & GLASS	N.A.	GYP. BD	N.A.	WOOD	SUSP. AC	
39	READING AREA #2	CARPET (NIC)	N.A.	GYP. BD & GLASS	GYP. BD & GLASS	GYP. BD & GLASS	WOOD	GYP. BD & SUSP. AC *	* GYP. BD ON LOW CEILING
40	ACTIVITY ROOM	CARPET (NIC)	GYP. BD	GYP. BD & GLASS	GYP. BD	GYP. BD	WOOD	SUSP. AC.	
41	MECH. EQUIPMENT	CONCRETE	UNFINISH	UNFINISH	UNFINISH	UNFINISH	NA	UNFINISH	

LEGEND

CARPET (NIC)	- CARPET NOT IN CONTRACT - BY OWNER AT FUTURE DATE.
GYP. BD	- GYPSUM DRYWALL CONSTRUCTION
SUSP. AC.	- SUSPENDED ACOUSTIC PANEL CEILING
CER. TILE	- CERAMIC TILE

DATES
NYSED APPROVAL - 11/1/88
NYSED - 1/2/89
FOR BID - 2/2/89

REVISIONS

NYSED 50-03-08-03-6-005-001

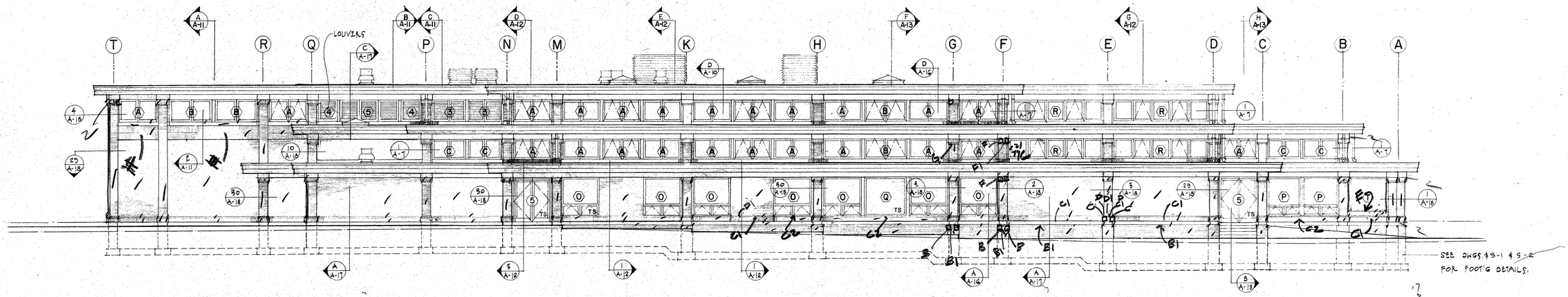
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TITLE
SCHEDULES

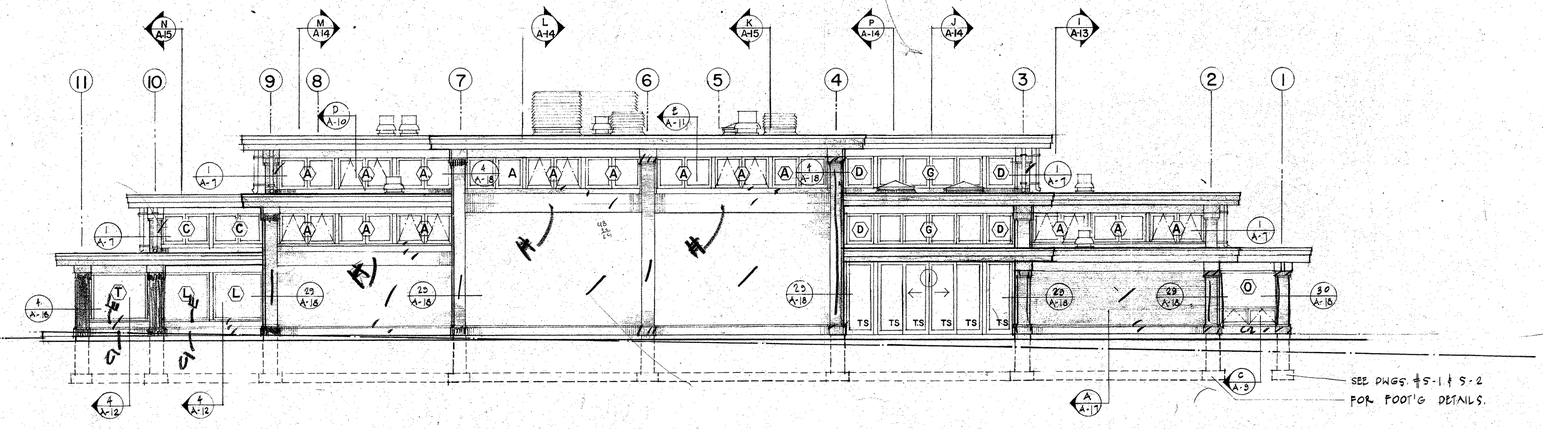
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WEST ELEVATION

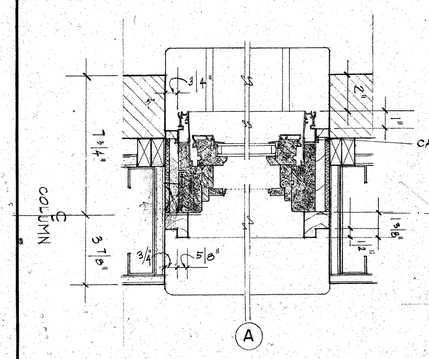


NORTH ELEVATION

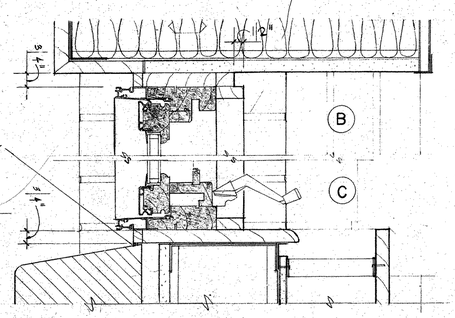
WINDOW SCHEDULE

TYPE	MODEL NUMBER	FRAME SIZE	DESCRIPTION	FIXED	OPERABLE
A	C-AWN3640-2W	6'-0"W x 3'-3 1/8" H	CLAD AWNING	57	32
B	C-AWN4040-2W	6'-8"W x 3'-3 1/8" H	" "	10	3
C	C-AWN3240-2W	5'-4"W x 3'-3 1/8" H	" "	13	1
D	C-AWN3640	3'-0" W x 3'-3 1/8" H	CLAD AWNING	4	0
E	3640	3'-0" W x 3'-3 1/8" H	AWNING	2	0
F	C-AWN3640-3W	9'-0"W x 3'-3 1/8" H	CLAD AWNING	1	0
G	C-AWN3640-4W	12'-0"W x 3'-3 1/8" H	CLAD AWNING	1	0
H	3640-4W	12'-0"W x 3' 3 1/8" H	AWNING	2	0

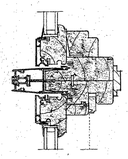
WINDOW DETAILS



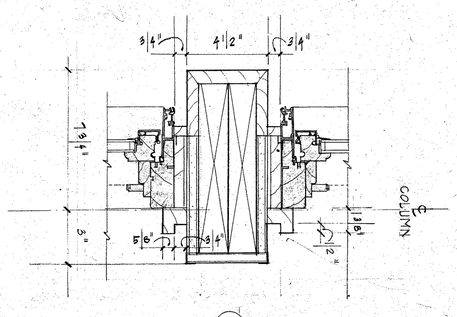
JAMB DETAILS
SCALE: 3" = 1'-0"



HEAD & SILL DETAILS
SCALE: 3" = 1'-0"



HORIZONTAL MULLION
SCALE: 3" = 1'-0"



VERTICAL MULLION
SCALE: 3" = 1'-0"

DATES
NYSED-APPROVAL - 11/1/88
NYSED 1/2/89
FOR BID 2/2/89

REVISIONS

NYSED 50-03-08-03-6-005-001

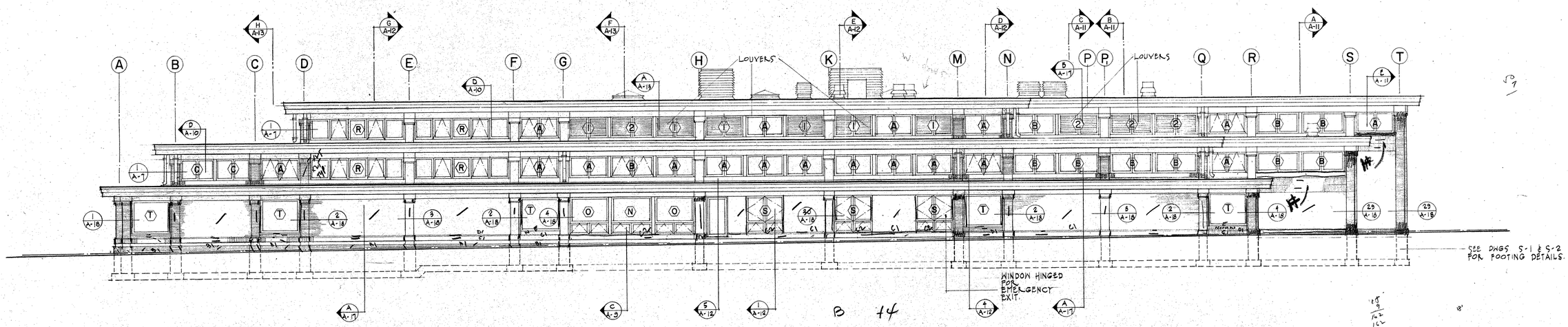
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TITLE
ELEVATIONS
SCALE: 1/8"= 1'-0"

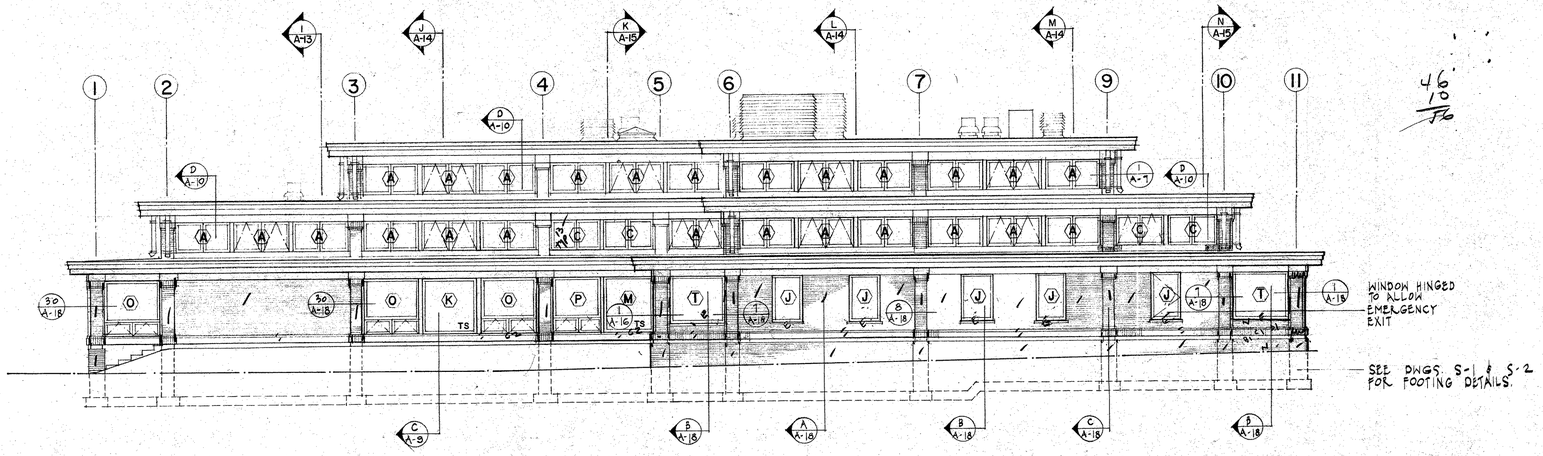
DRAWING
ARCH 9

JOB N

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EAST ELEVATION



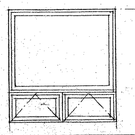
SOUTH ELEVATION

WINDOW SCHEDULE

TYPE	MODEL NUMBER	FRAME SIZE	DESCRIPTION	FIXED	OPERABLE

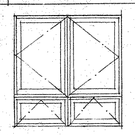
TS = TEMPERED SAFETY

T	C7264	6' - 0"W x 5' - 3 1/8" H	CLAD AWN'G VIEW UNIT	11	0
J	C4064	3' - 4"W x 5' - 3 1/8" H	SAME	5	1
K	SPECIAL *	6' - 0"W x 6' - 2 1/4" H	SAME	1	0
L	C6464	5' - 4"W x 5' - 3 1/8" H	SAME	2	0
M	SPECIAL *	5' - 4"W x 6' - 2 1/4" H	SAME	1	0
Q	SPECIAL *	6' - 8"W x 6' - 2 1/4" H	SAME	1	0

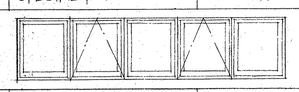


NOTE: 2 LOWER AWNINGS ARE OPERABLE W/ 1 FIXED VIEW UNIT ABOVE

N	SPECIAL *	6' - 8"W x 6' - 2 1/4" H	CLAD AWNING MULTIPLE ASSEMBLY UNIT	1
O	C7256 / C-AWN3620 - 2W	6' - 0"W x 6' - 2 1/4" H	SAME	15
P	C6456 / C-AWN3220 - 2W	5' - 4"W x 6' - 2 1/4" H	SAME	3



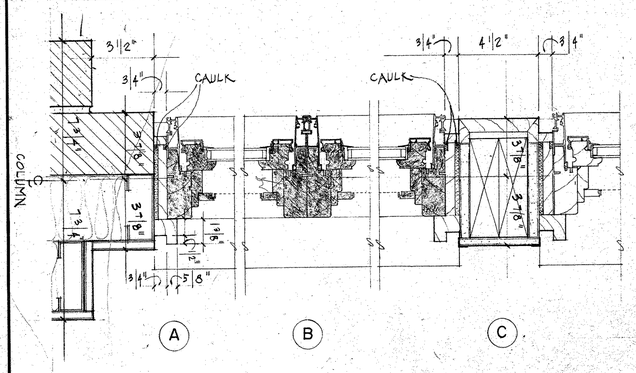
S	SPECIAL *	6' - 0"W x 6' - 2 1/4" H	SAME	0	3



* NOTE ELEVATIONS TO DETERMINE NUMBER OF FIXED VS OPERABLE UNITS

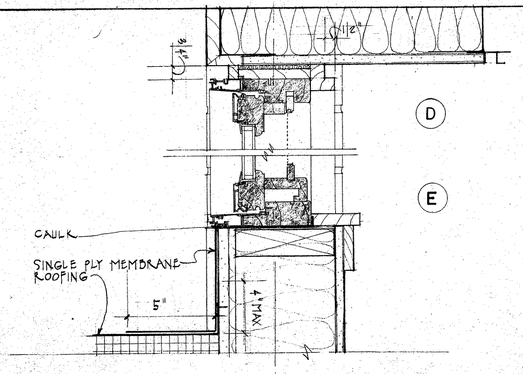
R	C-AWN3640 - 5W	15' - 0"W x 3' - 3 1/8" H	CLAD AWNING	8 *

WINDOW DETAILS



JAMB DETAILS

SCALE: 3" = 1' - 0"



HEAD & SILL DETAILS

SCALE: 3" = 1' - 0"

LOUVER SCHEDULE

TYPE	FRAME SIZE	DESCRIPTION	QTY.
1	6' - 0"W x 3' - 3 1/8" H	DIRECT GLAZE SHIPPED OPEN	6
2	6' - 8"W x 3' - 3 1/8" H	SAME	4
3	5' - 4"W x 3' - 3 1/8" H	SAME	2
4	3' - 0"W x 3' - 3 1/8" H	SAME	2
5	9' - 6"W x 3' - 3 1/8" H	SAME	1

DATES
NYSED APPROVAL 11/1/88
NYSED 1/2/89
FOR BID 2/2/89

REVISIONS

NY: ED 50-03-08-03-6-005-001

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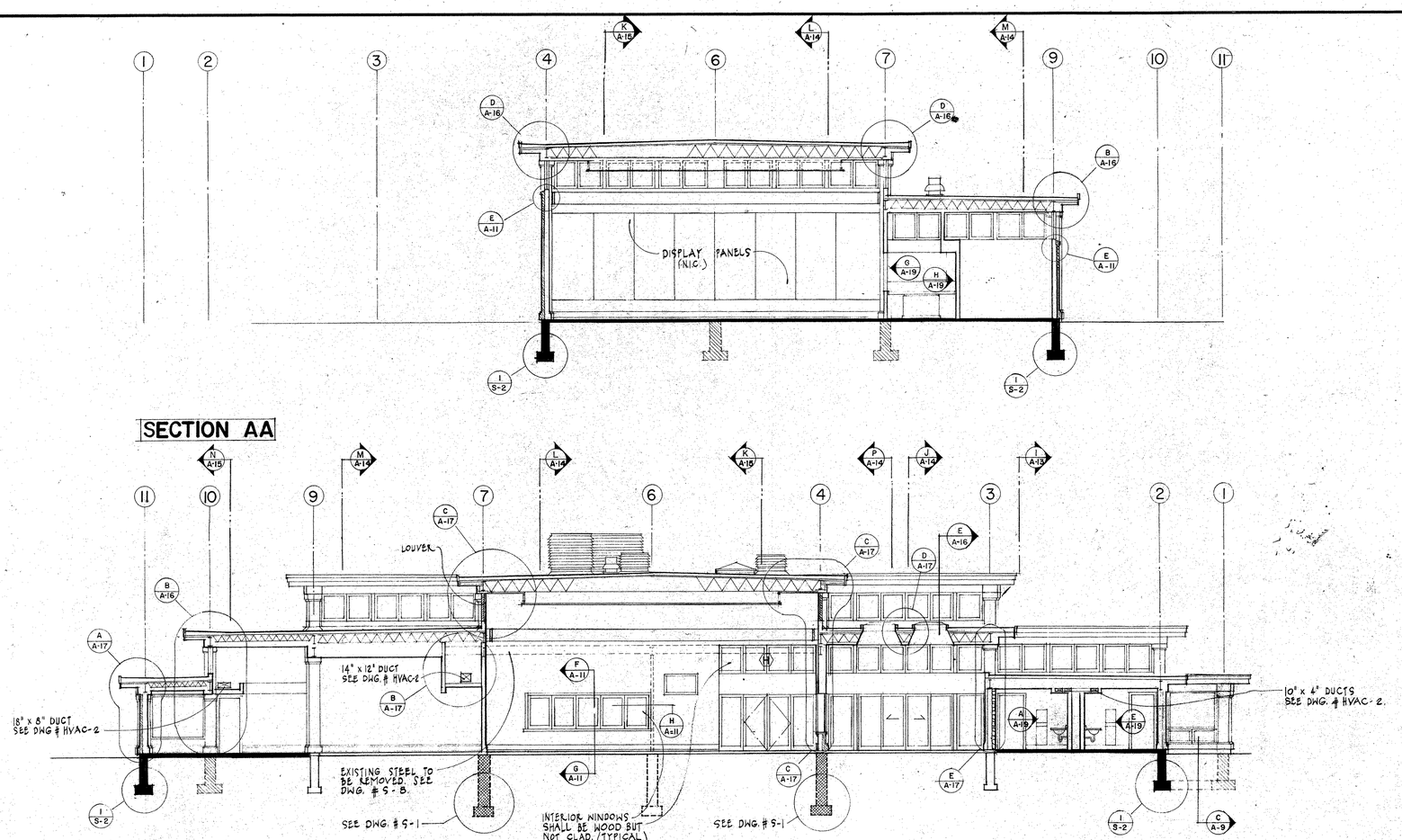
TITLE
ELEVATIONS
SCALE: 1/8" = 1' - 0" (U.O.N.)

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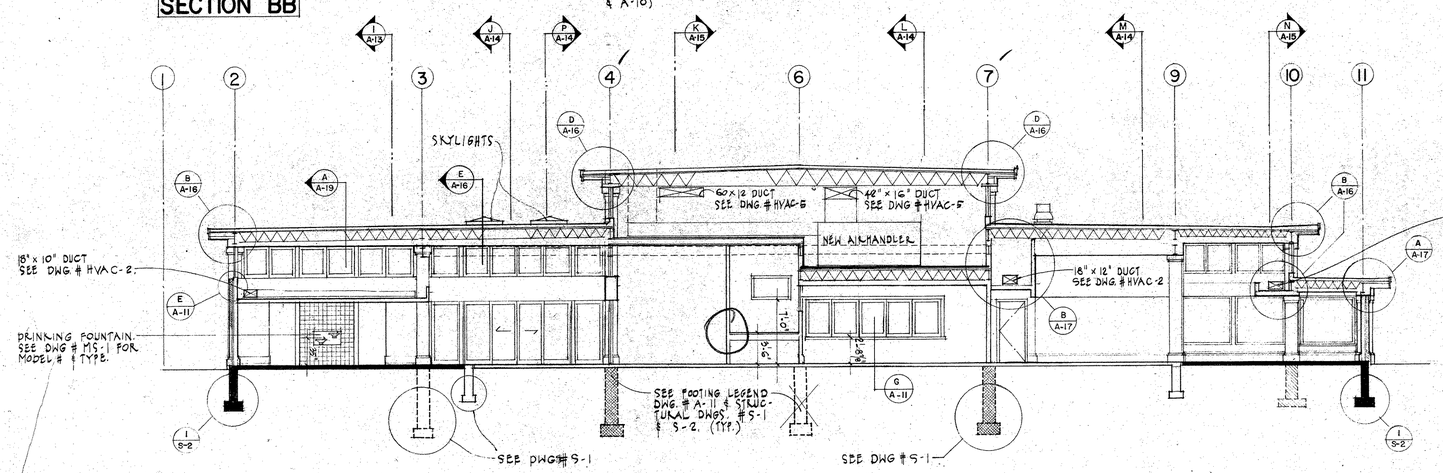
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ARCH 10

JOB NO. 860

SECTION AA



SECTION BB

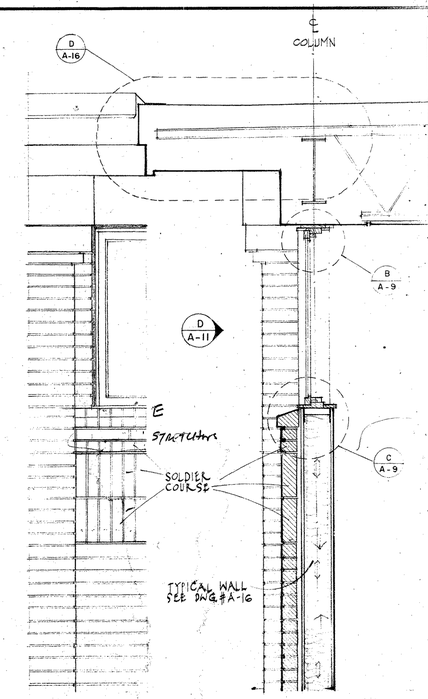


SECTION CC

LEGEND

- EXISTING 4" CONCRETE SLAB. *
- NEW 5" CONCRETE SLAB. *
- EXISTING FOUNDATION WALL & FOOTING *
- EXISTING FOOTING TO BE USED IN NEW CONSTRUCTION W ADEQUATE BEARING CAPACITY FOR NEW LOADS. *
- EXISTING FOOTING TO BE ABANDONED. *
- EXISTING FOOTING TO BE REPLACED OR UNDERPINNED IF NECESSARY SEE DWG. # S-1 FOR DETAILS.
- NEW CONCRETE PEDESTAL & COLUMN FOOTING. *
- NEW FOUNDATION WALL & FOOTING. *

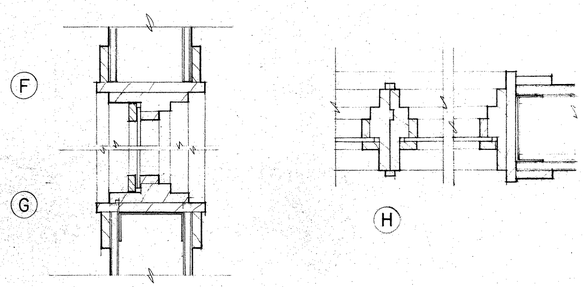
* NOTE:
SEE STRUCTURAL DWGS. # S-1 & S-2 FOR REQUIREMENTS DETAILS & LOCATIONS.



ELEVATION D
SCALE: 3/4" = 1'-0"

DETAIL E
SCALE: 3/4" = 1'-0"

WINDOW DETAILS



HEAD & SILL DETAILS
SCALE: 3" = 1'-0"

JAMB DETAILS
SCALE: 3" = 1'-0"

NOTE:
THESE INTERIOR WINDOW DETAILS TYPICAL IN STORYHOUR ROOM & STAFF ROOM. SEE 1/8" = 1'-0" SECTIONS BB & CC THIS SHEET & SECTION GG ON DWG. A-12.

DATES
NYSED APPROVAL 11/1/88
NYSED 1/2/87
FOR BID 2/2/88

REVISIONS

NYSED 50-03-08-03-6-005-001

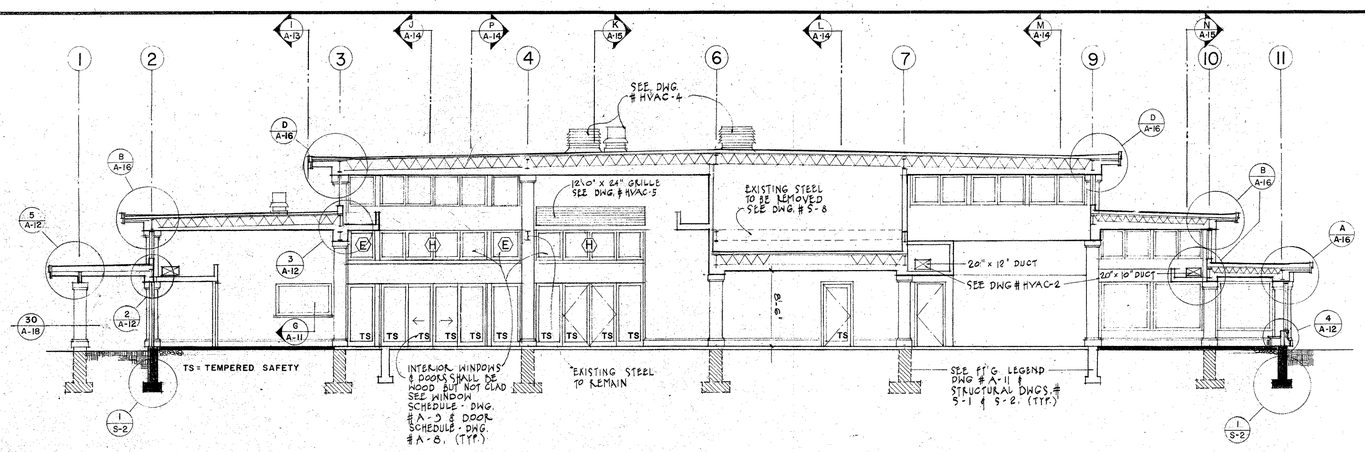
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TITLE
SECTIONS
SCALE 1/8" = 1'-0"

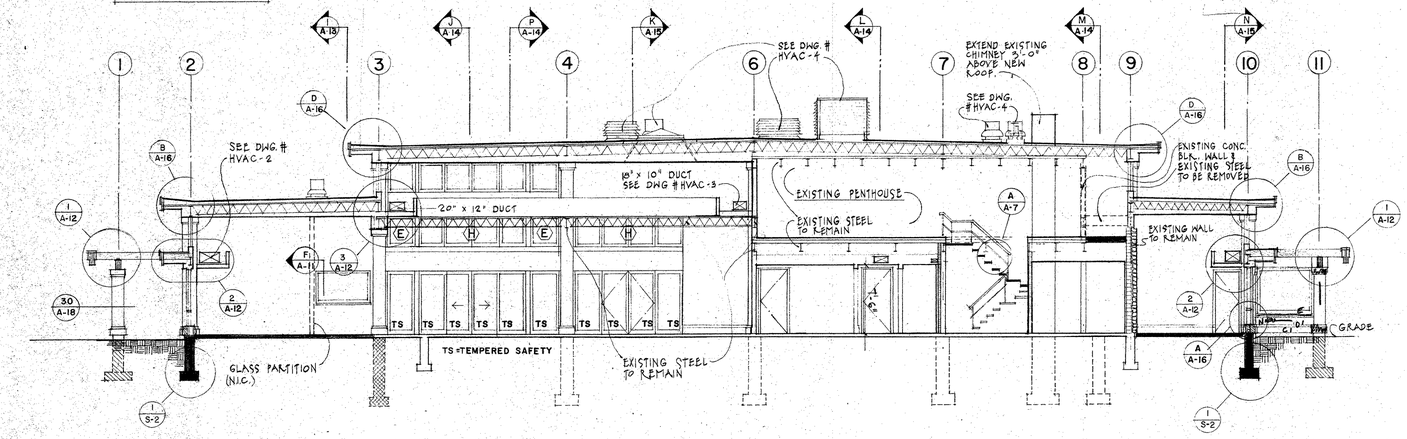
DRAWING
ARCH 11

JOB NO.

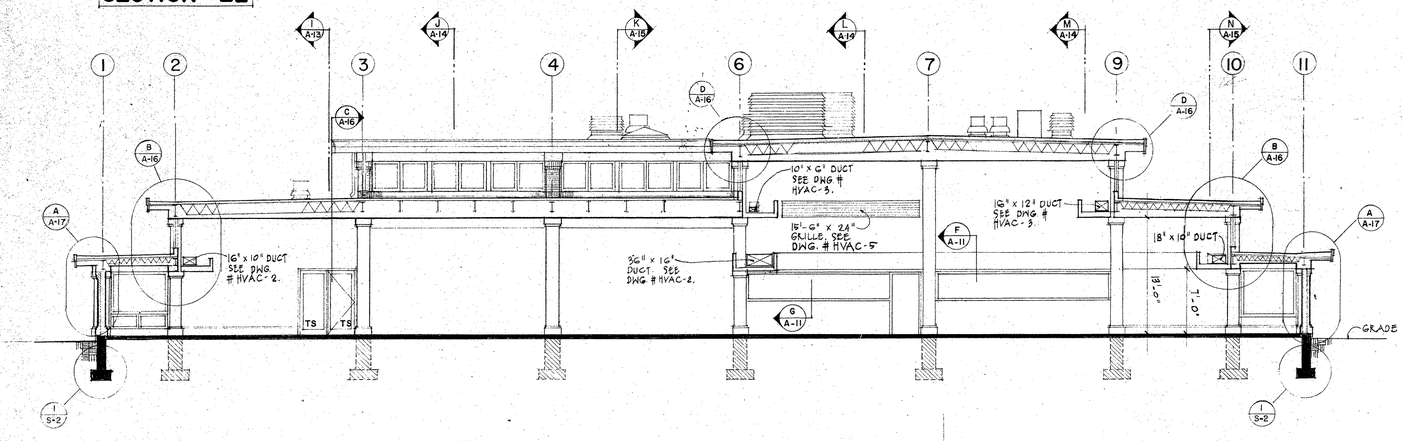
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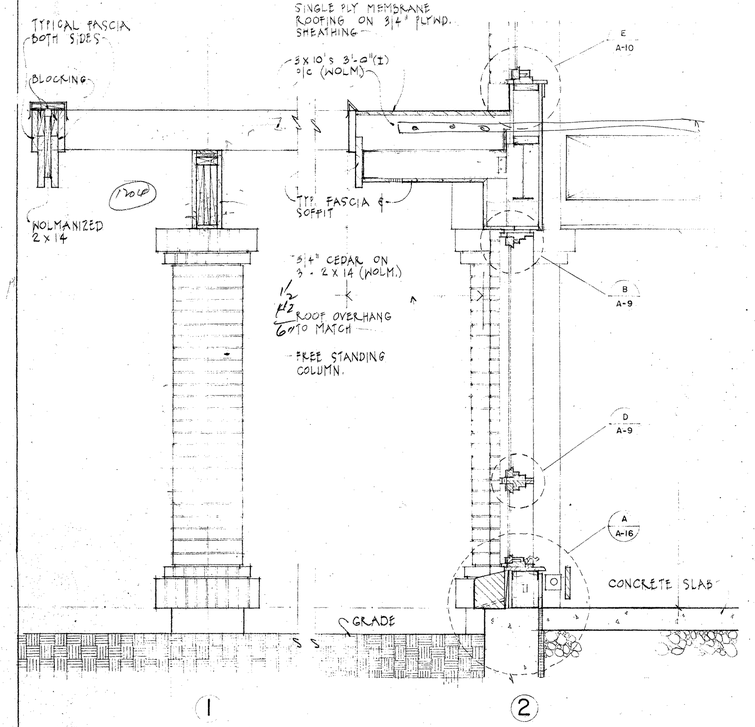
SECTION DD



SECTION EE

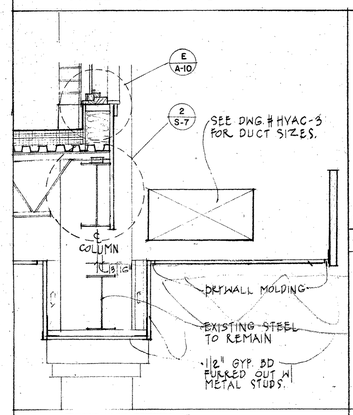


SECTION GG



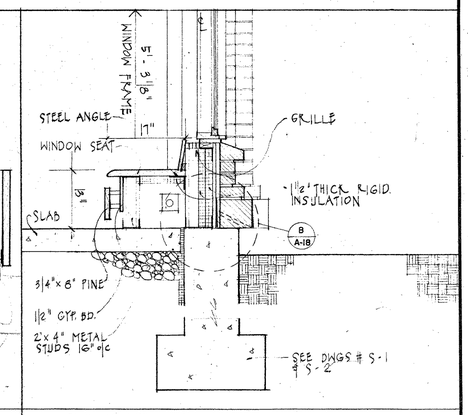
TRELLIS DETAIL

SCALE: 3/4" = 1'-0"



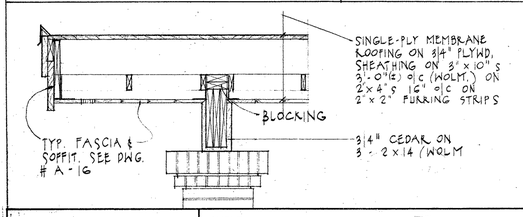
DETAIL 3

SCALE: 3/4" = 1'-0"



DETAIL 4

SCALE: 3/4" = 1'-0"



DETAIL 5

SCALE: 3/4" = 1'-0"

DATES
NYSED APPROVAL 11/1/88
NYSED 1/2/89
FOR BID 2/21/89

REVISIONS

NYSED 50-03-08-03-6-005-001

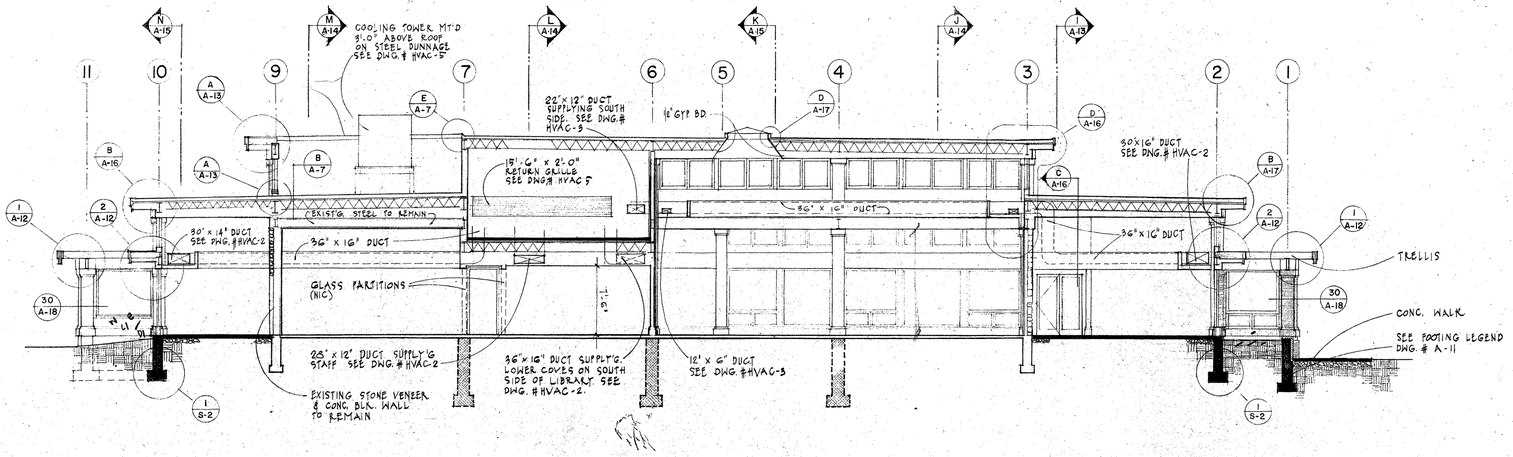
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TITLE
SECTIONS
SCALE: 1/8" = 1'-0"

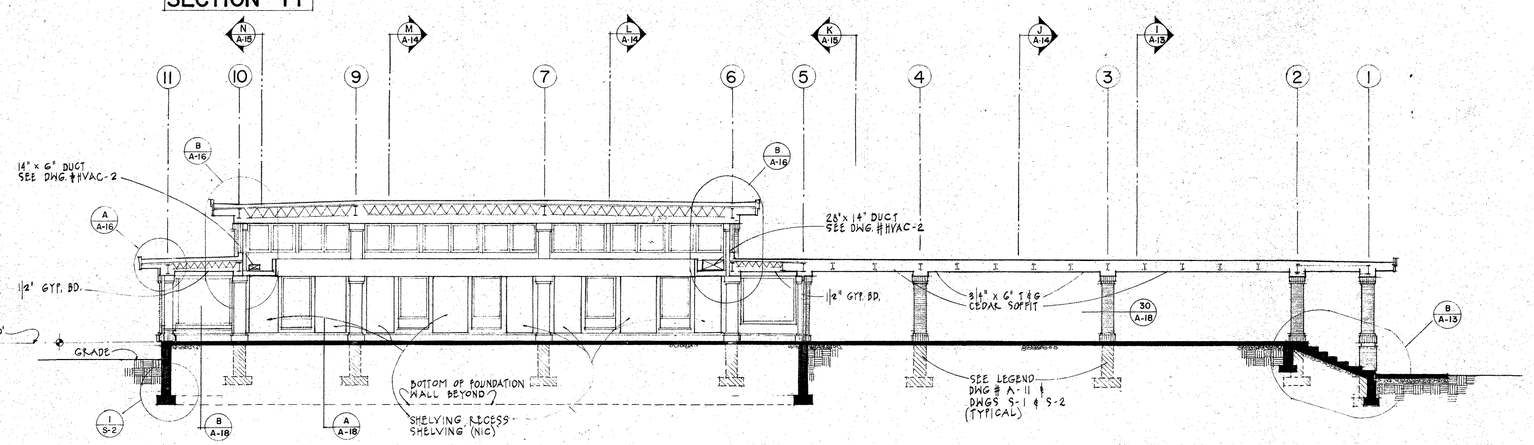
DRAWING
ARCH 12

JOB NO. 861

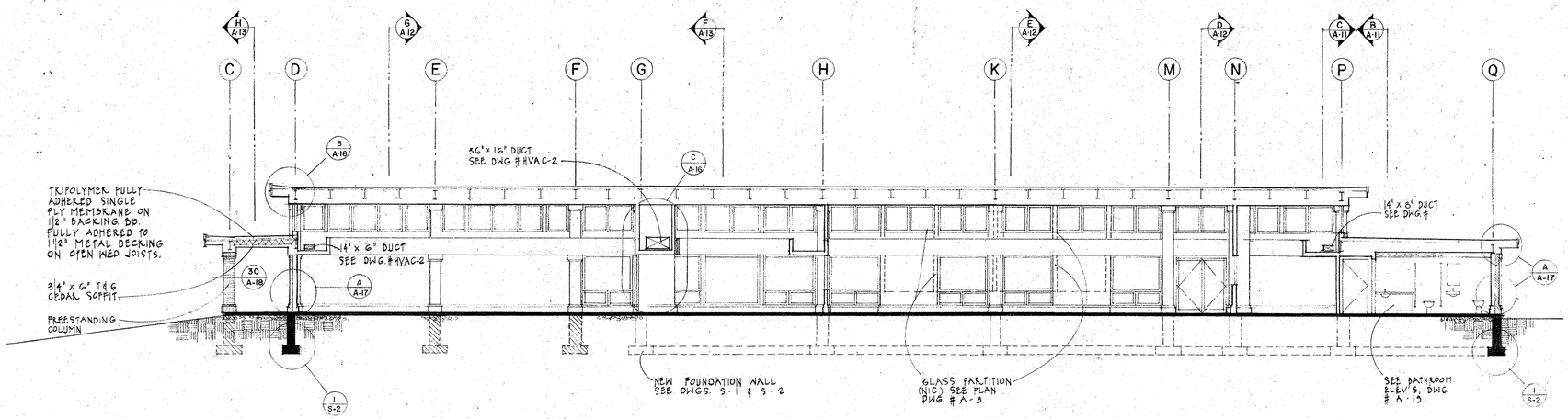
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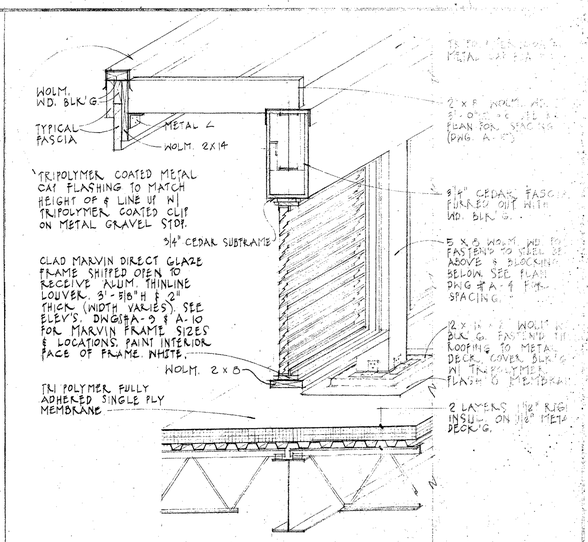
SECTION FF



SECTION HH

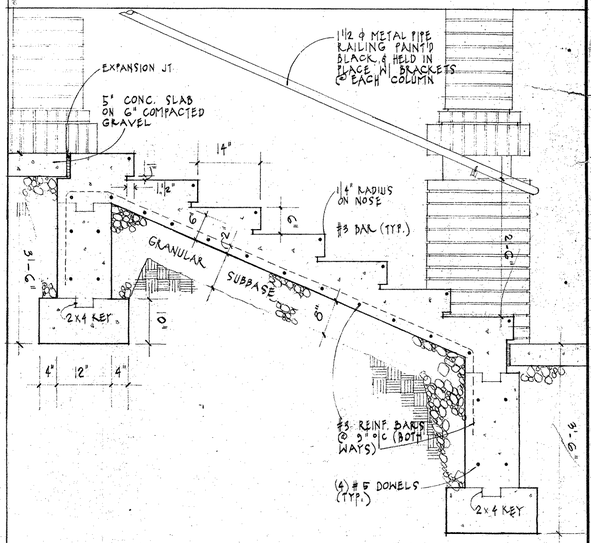


SECTION II



DETAIL A

SCALE: 3/4" = 1'-0"



DETAIL B

SCALE: 3/4" = 1'-0"

DATES	
NYSED APPROVAL	11/1/88
NYSED	1/27/89
FOR BID	2/21/89
REVISIONS	
NYSED 50-03-08-03-6-005-001	

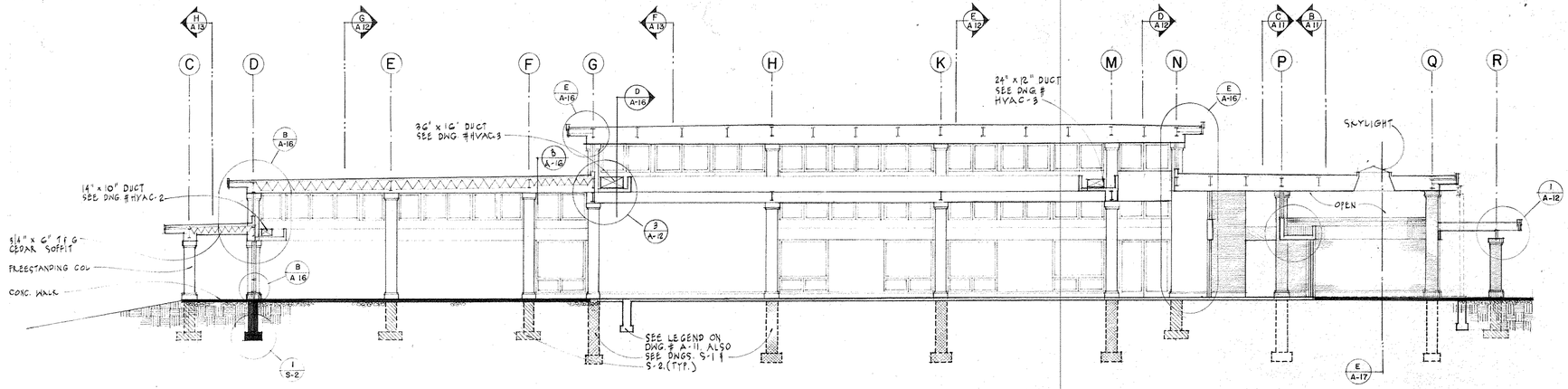
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ADDITION & ALTERATION TO THE
PEARL RIVER PUBLIC LIBRARY
80 FRANKLIN AVENUE / PEARL RIVER, NY

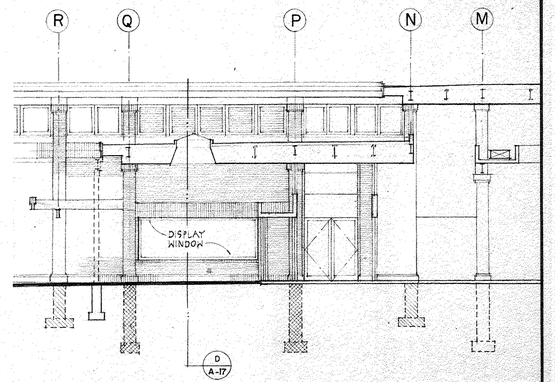
TITLE
SECTIONS
SCALE: 1/8"= 1'-0"

DRAWING
ARCH 13

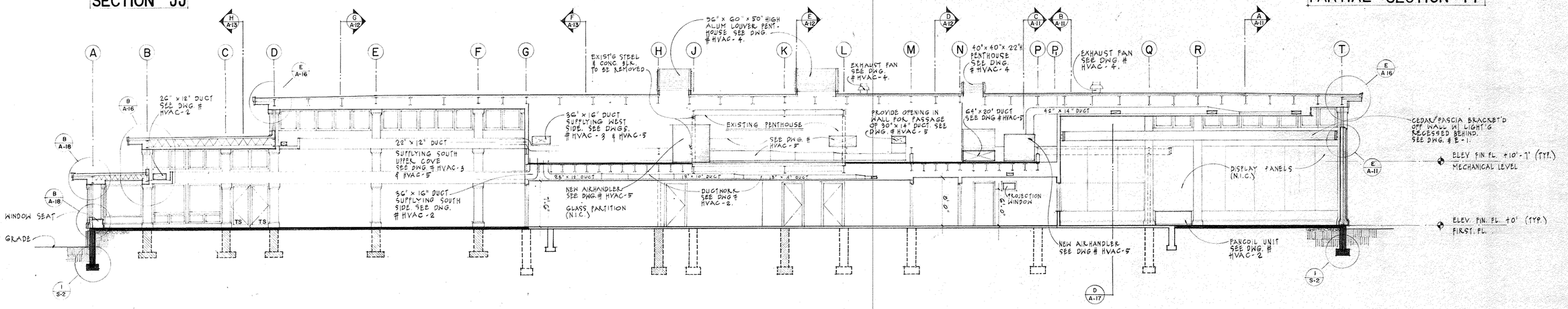
JOB NO. 8601

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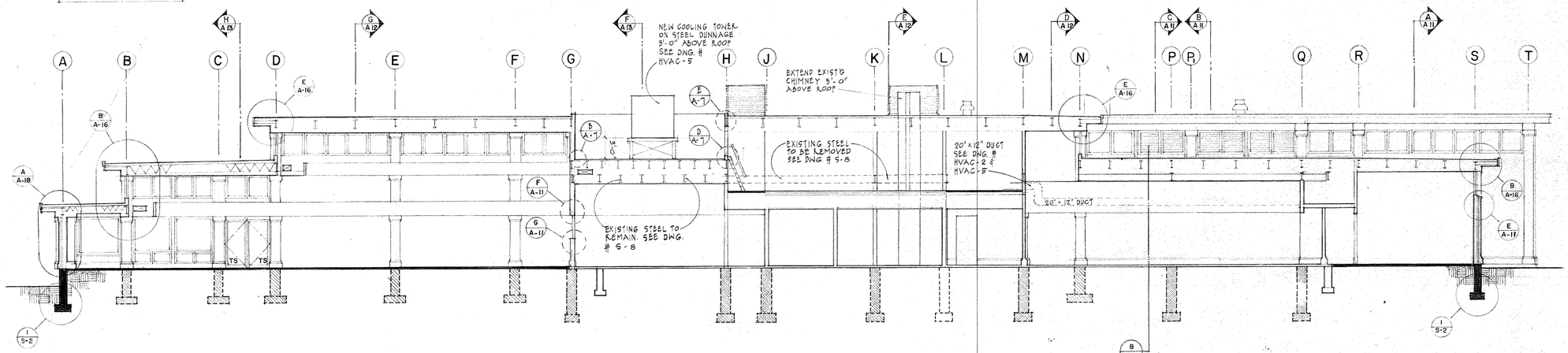


SECTION JJ



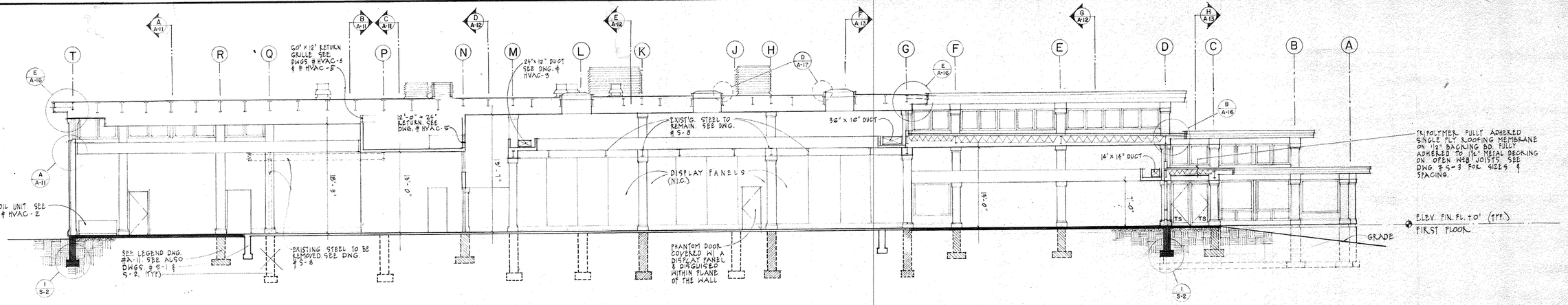
PARTIAL SECTION PP

SECTION LL

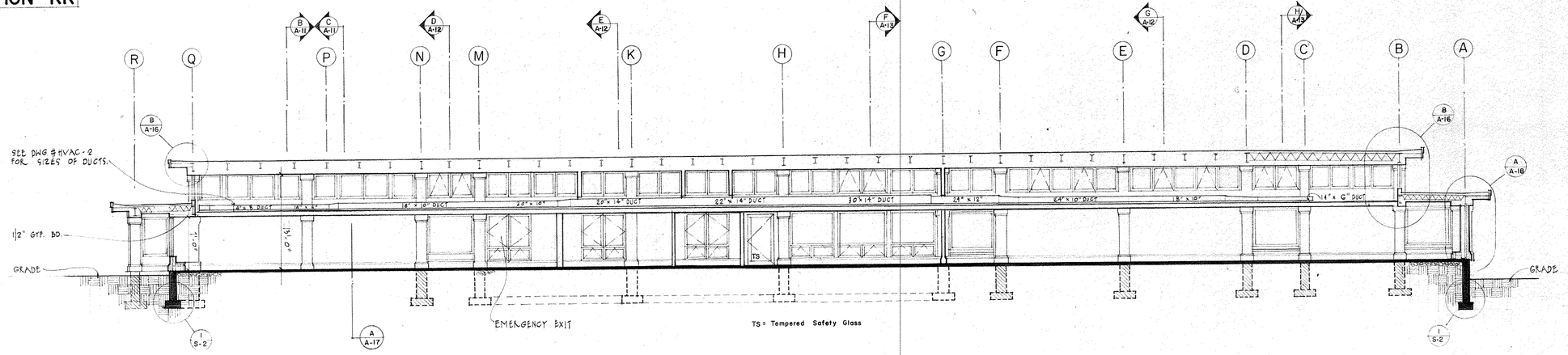


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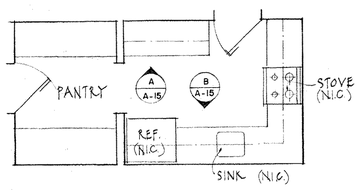
DATES NYSED APPROVAL 11/1/88 NYSED 1/2/89 FOR BID 2/21/89	CLIENT ADDITION & ALTERATION TO THE **PEARL RIVER PUBLIC LIBRARY** 80 FRANKLIN AVENUE / PEARL RIVER, NY
REVISIONS	TITLE **SECTIONS** SCALE: 1/8"= 1'-0"
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	DRAWING **ARCH 14** JOB NO. 8601



SECTION KK

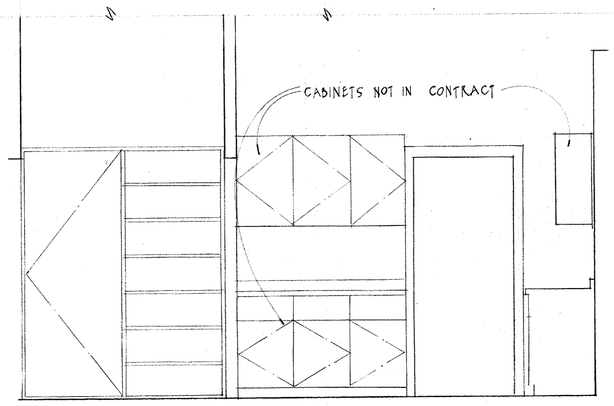


SECTION NN



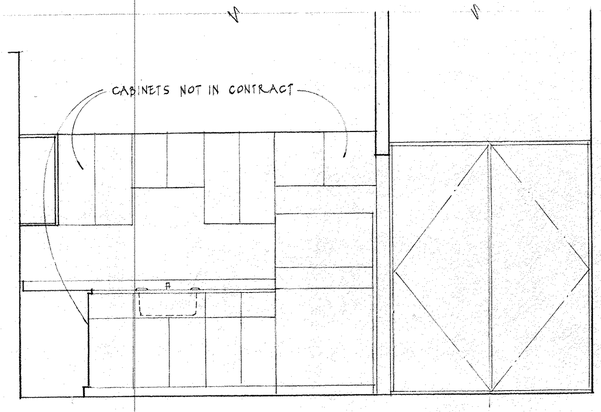
PLAN: Kitchen & Pantry

SCALE: 1/4" = 1'-0"



ELEVATION A

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



ELEVATION B

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

✳ NOTE:
PLUMBING, ELEC. & HVAC ROUGING TO BE INCLUDED IN CONTRACT.

DATES	
NYSED APPROVAL	11/1/88
NYSED	12/89
FOR BID	2/21/89
REVISIONS	
NYSED 50-03-08-03-6-005-001	

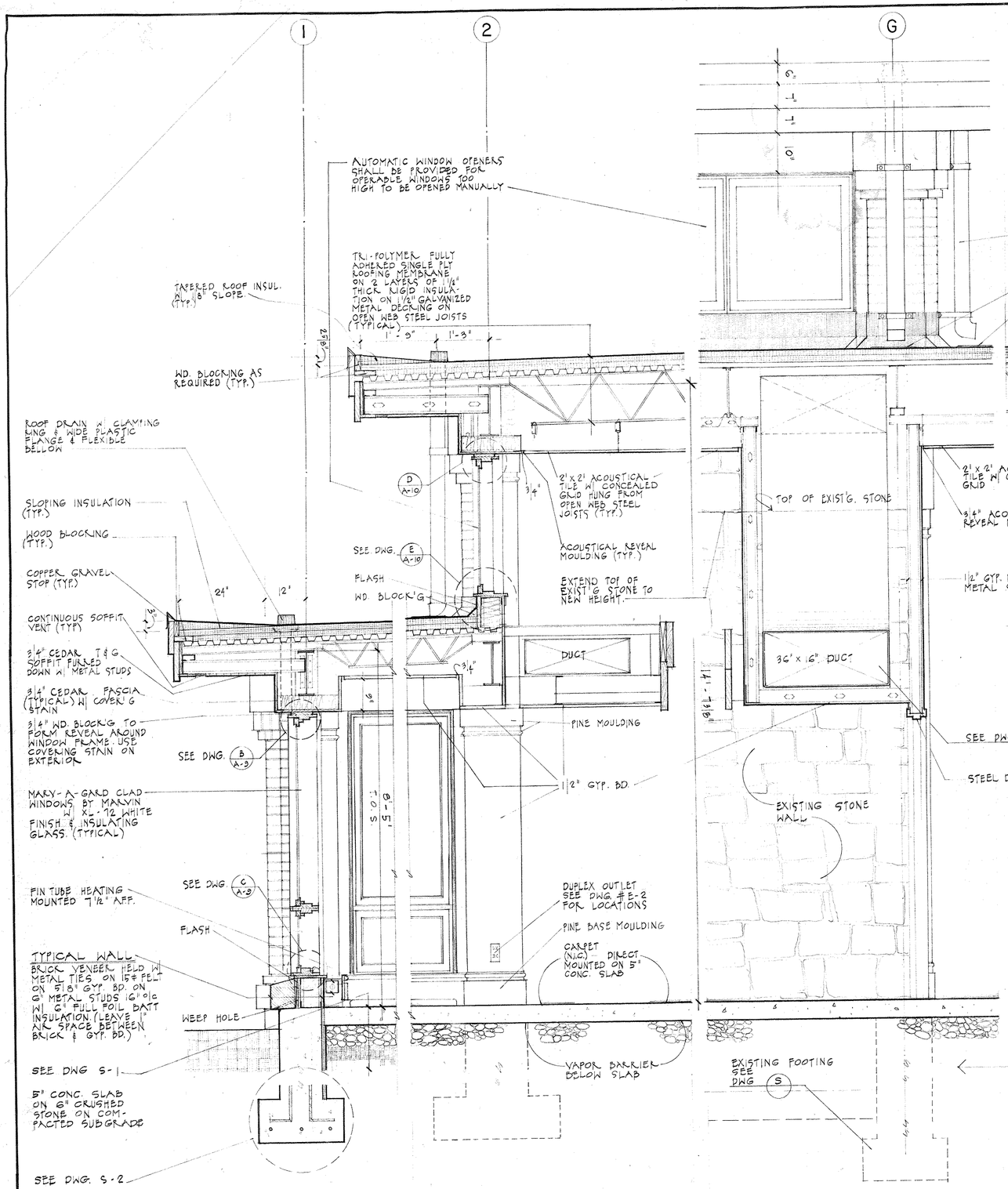
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TITLE
SECTIONS & KITCHEN DETAILS
SCALE: 1/8"=1'-0" (U.O.N.)

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DATES	
NYSED APPROVAL	11/1/88
NYSED	1/2/89
FOR BID	2/21/89

REVISIONS

NYSED 50-03-08-03-6-005-001

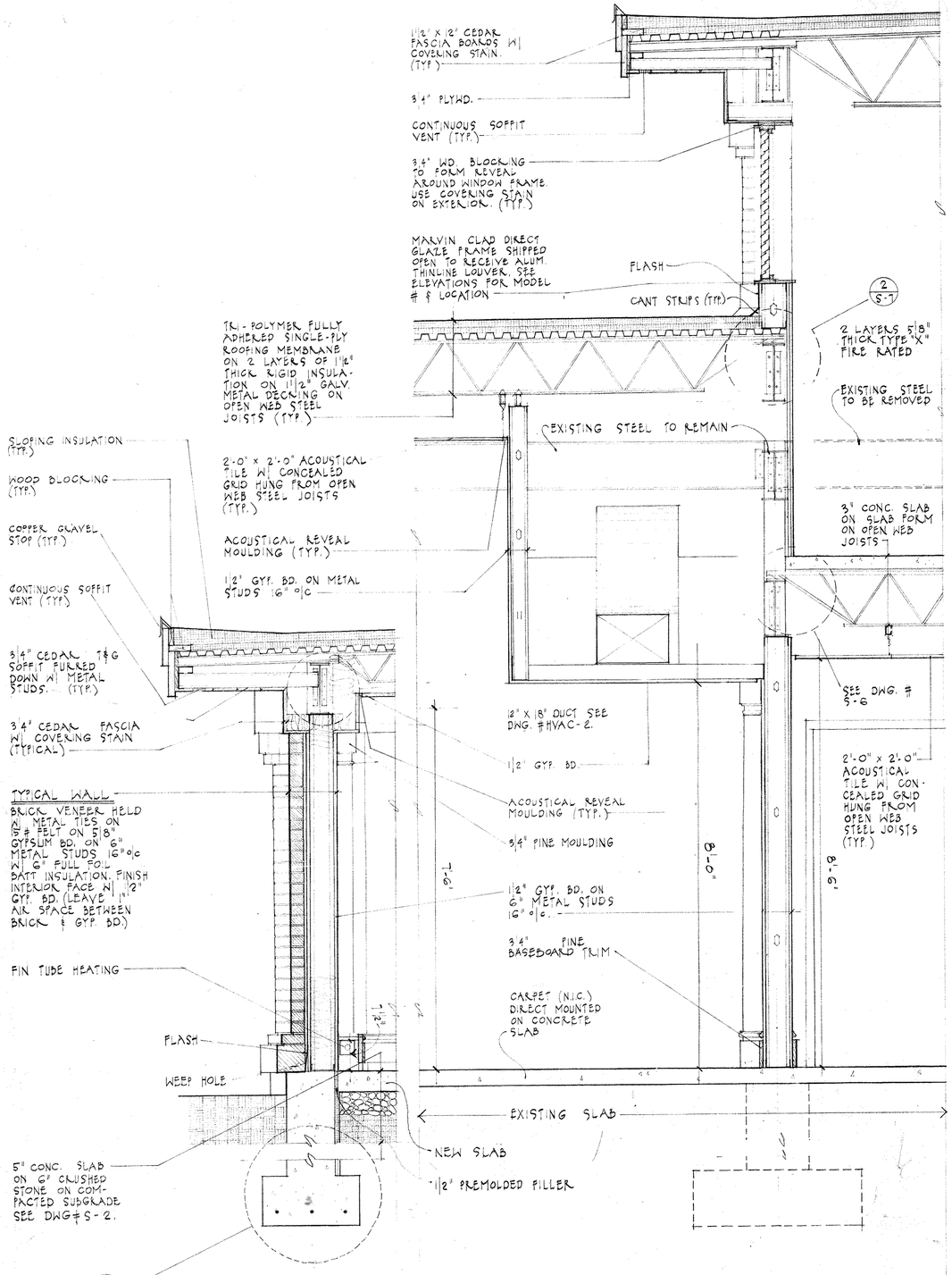
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TITLE
DETAILED SECTIONS
SCALE: 3/4" = 1'-0"

DRAWING
ARCH 16

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DATES
NYSED APPROVAL - 11/1/88
NYSED - 12/30/88
FOR BID - 2/21/89

REVISIONS

NYSED 50-03-08-02-6-005-001

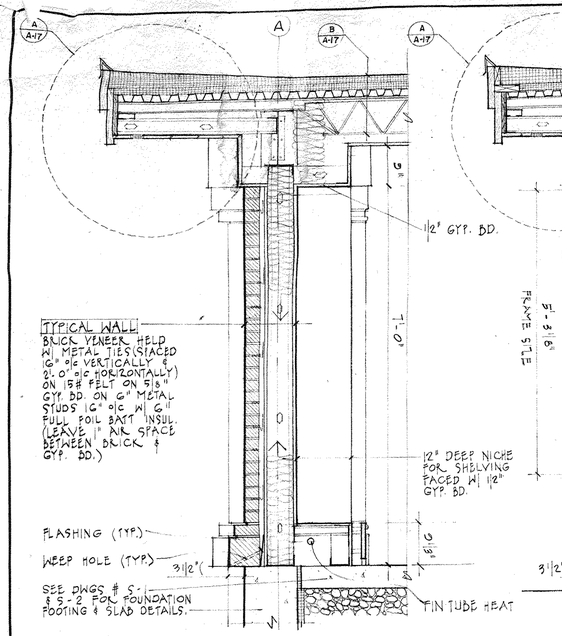
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TITLE
DETAILED SECTIONS
SCALE 3/4" = 1'-0"

DRAWING
ARCH 17

JOB NO. 8601

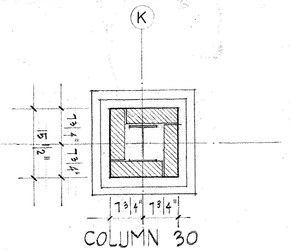
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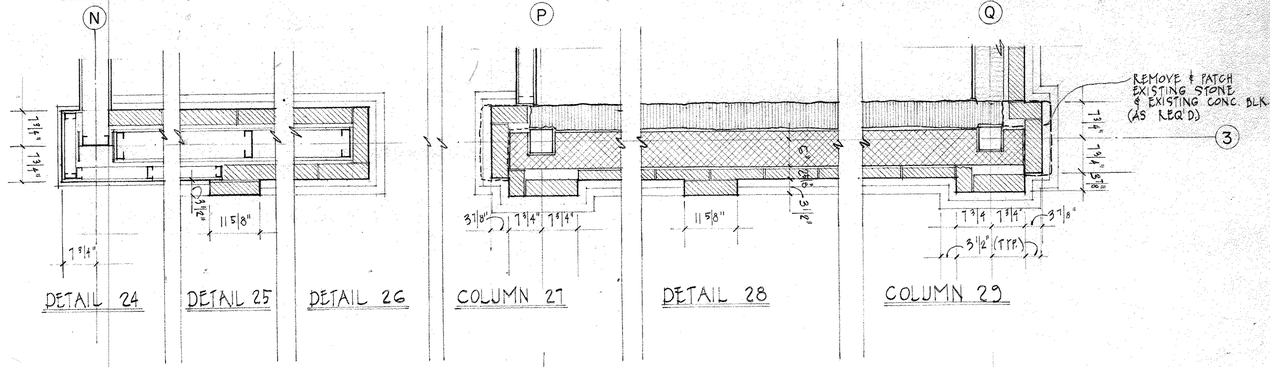
SECTION AA

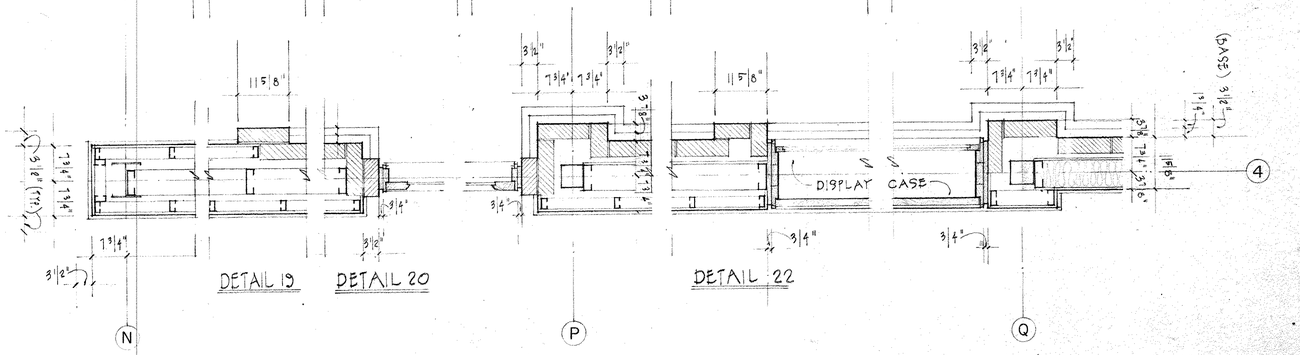
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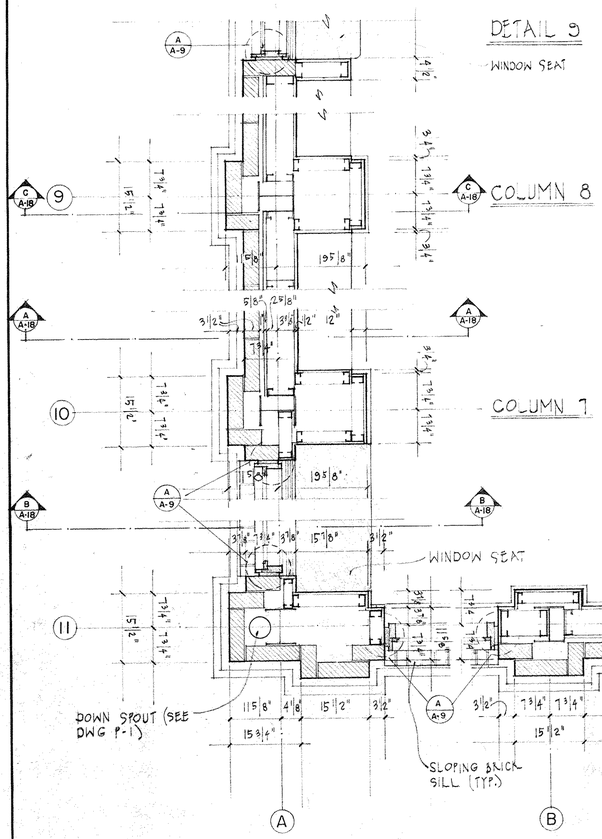
SECTION CC

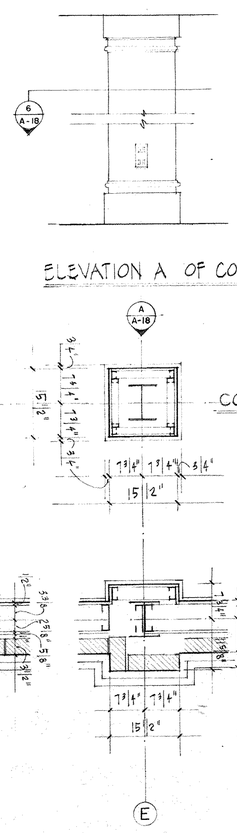


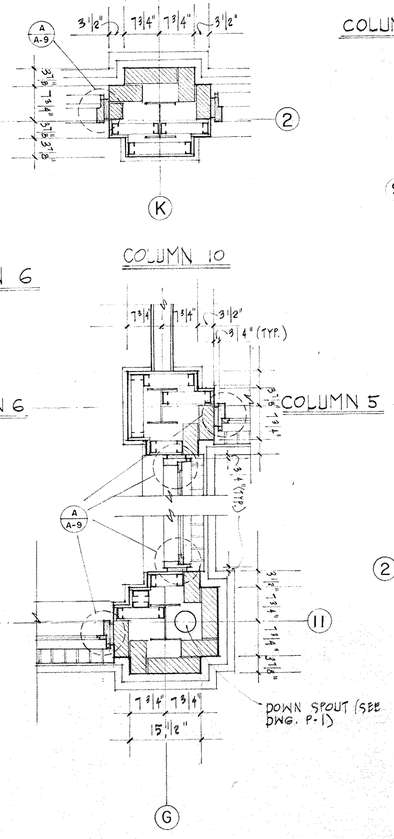
COLUMN 30

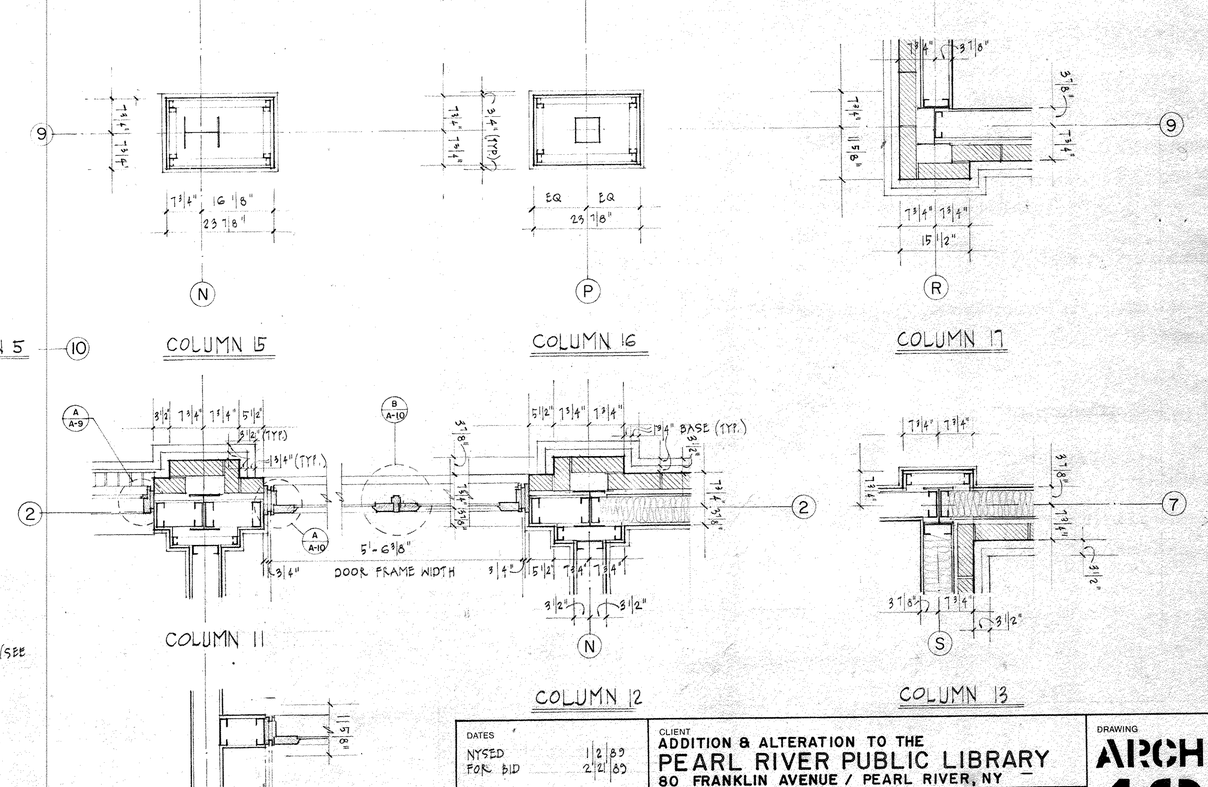




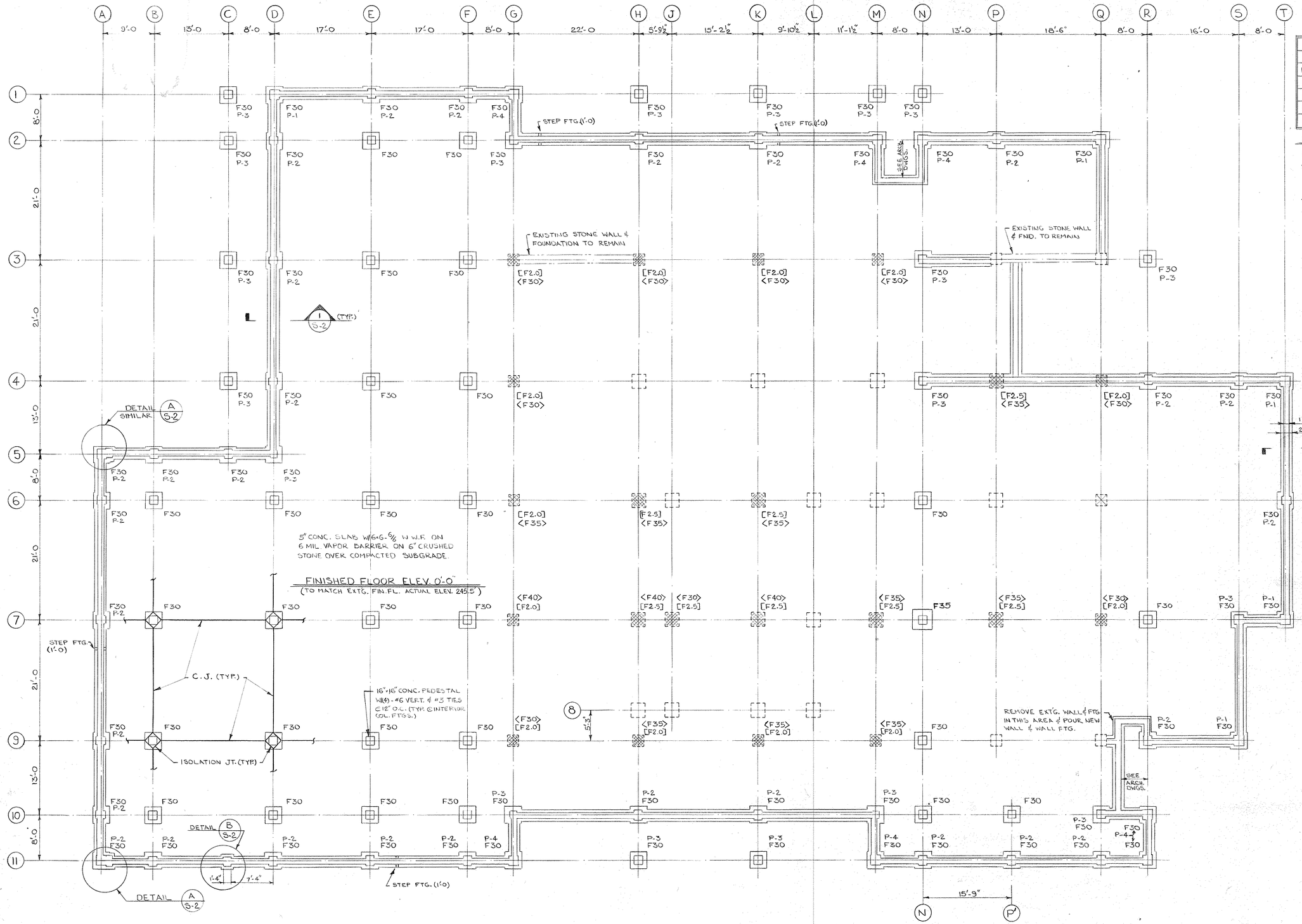








DATES NYSED 1/2/89 FOR BID 2/21/89 REVISIONS NYSED 50-03-08-03-6-005-001	CLIENT ADDITION & ALTERATION TO THE PEARL RIVER PUBLIC LIBRARY 80 FRANKLIN AVENUE / PEARL RIVER, NY TITLE DETAILED PLANS & SECTIONS SCALE: 3/4" = 1'-0"	DRAWING ARCH 18 JOB NO. 8601
	Michael Esmay Architecture • Planning • Interior Design 17 Van Houten Street, Upper Nyack, N.Y. 10960 (914)358-0933	



FOOTING SCHEDULE

TYPE	SIZE	REINFORCING
EXT'G. F2.0	2'-0×2'-0×1'-0	NONE
EXT'G. F2.5	2'-6×2'-6×1'-2	NONE
NEW F30	3'-0×3'-0×1'-0	6-#4 E.W. BOT.
NEW F35	3'-6×3'-6×1'-2	5-#5 E.W. BOT.
NEW F40	4'-0×4'-0×1'-2	8-#5 E.W. BOT.

NOTES:

1) [X] INDICATES EXISTING FOOTING TO BE ABANDONED.

2) [ ] INDICATES EXISTING FOOTING TO BE USED IN NEW CONSTRUCTION WITH ADEQUATE BEARING CAPACITY FOR NEW LOADS.

3) [X] INDICATES EXISTING FOOTING TO BE USED IN NEW CONSTRUCTION. SIZE OF FOOTING BASED ON 1962 DESIGN DRAWINGS SHOWN AS [F2.0] OR [F2.5] ON PLAN. REQUIRED SIZE OF FTG. TO SUPPORT NEW LOADS SHOWN THUS <....> AND ARE BASED ON A NET BEARING CAPACITY OF 5,000 PSF (DUE TO OVERBURDEN LOADS). FTG. SIZE & BEARING CAPACITY TO BE INVESTIGATED BY LICENSED ENGINEER, RETAINED BY CONTRACTOR TO DETERMINE IF EXISTING FTG. MUST BE REPLACED TO SUPPORT NEW LOADS. CONTRACTOR SHALL SUBMIT METHOD OF REPLACEMENT OR UNDERPINNING OF EXISTING FTGS. TO SUPPORT NEW CONSTRUCTION FOR APPROVAL TO ARCHITECT AND ENGINEER PRIOR TO START OF WORK.

PEDESTAL SCHEDULE:

MARK	SIZE	REINFORCING
P-1	20"×20"	(4)-#6 VERT. & #3 TIES @ 12"
P-2	20"×16"	" " " "
P-3	16"×16"	" " " "
P-4	SEE DET. DWG. S-2	

TOP OF PEDESTAL 0'-8" BELOW FINISHED FLOOR EXCEPT @ ROOF DRAIN LOCATIONS LISTED BELOW. TOP OF PEDESTALS SHALL BE 1'-0 BELOW FINISHED GRADE @:
C-1, Q-2, T-4, A-5, T-7, S-3, A-11, H-11, R-11.

SEE ARCH. DWGS. FOR THE REQ'D. ORIENTATION OF P-2 & P-4 PEDESTALS TO ACCOMMODATE THE BRICK WORK ABOVE.

FOUNDATION PLAN

1/8"=1'-0

NOTE:

1. SEE DWGS. S-2 THRU S-7 FOR NOTES AND ADD'L. INFORMATION & REQUIREMENTS.
2. CONTRACTOR SHALL LOCATE EXIST. 54"ϕ PIPE ALONG WEST BLDG. LINE PRIOR TO POURING FTGS. IN THIS AREA. BASED ON DATA OBTAINED, SOME FTG. ELEVS. MAY HAVE TO BE ADJUSTED.
3. SEE ARCH. DWGS. FOR LOCATION OF ALL EXTERIOR CONCRETE SLABS, STEPS & SIDEWALKS.

JOB NO. 8725

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DATES
N.Y.S.E.D. APPROVAL 1-11-88
N.Y.S.E.D. 2-1-89
FOR BID 2-21-89

REVISIONS

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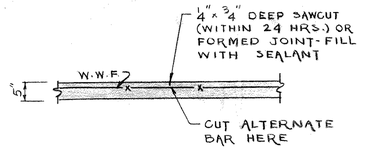
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TITLE
FOUNDATION PLAN

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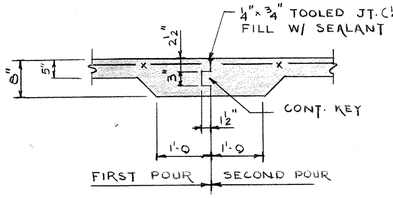
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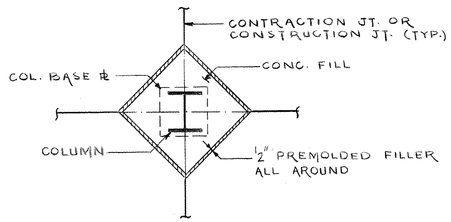
TYP. CONTRACTION JOINT

N.T.S



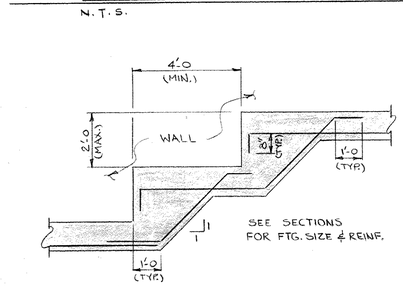
TYP. CONSTRUCTION JOINT

N.T.S.



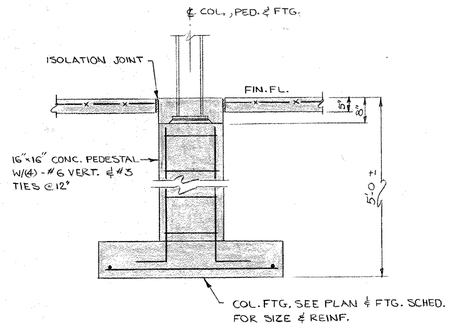
TYP. ISOLATION JOINT

N.T.S.



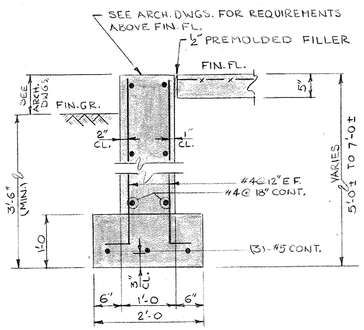
TYP. STEPPED FOOTING DETAIL

N.T.S.



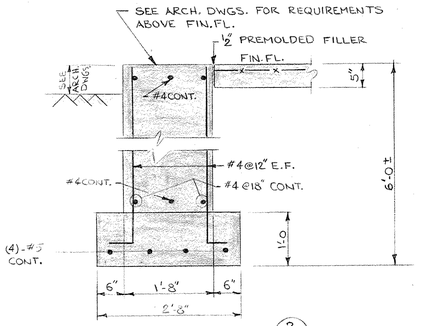
TYP. INTERIOR COL. FTG. DETAIL

N.T.S.



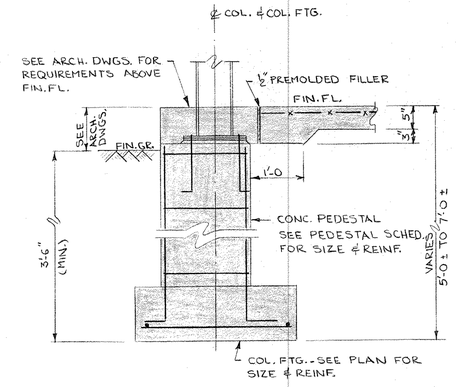
SECTION 1/S-2

3/4"=1'-0



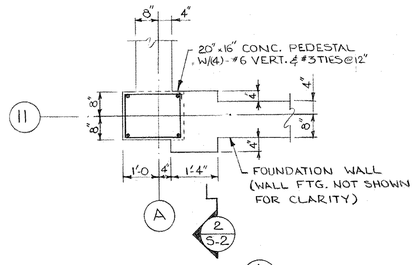
SECTION 2/S-2

3/4"=1'-0



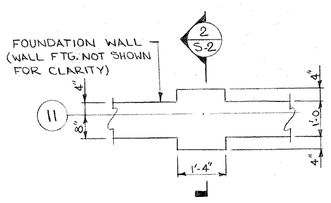
TYP. EXTERIOR COL. FTG. DETAIL

N.T.S.



DETAIL A/S-2

1/2"=1'-0



DETAIL B/S-2

1/2"=1'-0

GENERAL NOTES

GENERAL

All construction shall be in accordance with the requirements of "The New York State Building Code," latest edition, and local ordinances.

The Contractor shall verify all existing dimensions and conditions in the field before commencing work.

The Contractor shall provide the necessary coordination between all trades with regard to the drawings. Locate bolts, sleeves, and trenches as required for mechanical trades, and provide and/or install various items not shown on these drawings but as required for various trades.

Work these drawings in conjunction with the architectural drawings prepared by Michael Esmay, Architect.

FOUNDATIONS & SLABS ON GRADE

All footings are designed for a maximum allowable bearing pressure of 3 TSF.

All footings are to bear on virgin soil.

All excavations shall be free of water before pouring concrete.

Concrete foundation walls shall be placed in alternate sections, not more than 60 feet in length. Horizontal construction joints will not be permitted except where shown.

Place slabs on ground of thickness shown on drawings, in alternate panels with maximum area of 900 sq. ft. and maximum length of 40 ft. Contractor shall submit pour sequence for slabs showing locations of contraction and construction joints to architect for approval prior to pouring any concrete slabs. Set tops of slabs to accomodate architectural finishes.

Where compacted fill is required, well graded granular material shall be placed in lifts not exceeding 12" and compacted to 95% of its maximum dry density as per ASTM D-1557.

Verifications of bearing capacity and/or inspection of compacted fill shall be done by a qualified professional engineer licensed in the State of New York.

CONCRETE

All concrete work (both materials and construction procedures) shall be in accordance with ACI Standard 318-77.

Concrete shall be capable of developing a minimum compressive strength of 3,000 psi at 28 days (U.O.N.).

Reinforcing bars shall be deformed billet steel bars in accordance with ASTM A615, grade 60. All detailing of reinforcing shall be in accordance with ACI Standard 315.

All exposed edges of concrete above finished floor shall have a 3/4" x 3/4" chamfer.

Provide # 3 nosing bar at each concrete step.

Calcium chloride or solutions containing calcium chloride will not be permitted as admixtures in any concrete.

Concrete protection for reinforcing steel shall be as follows:

Slabs:	3/4"	Concrete poured on ground:	3"
Beams:	1½"	Inside face of walls:	1"
Columns: (Pedestals)	1½"	Exterior face of walls: (against earth)	2"

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FOR BID 2-21-89

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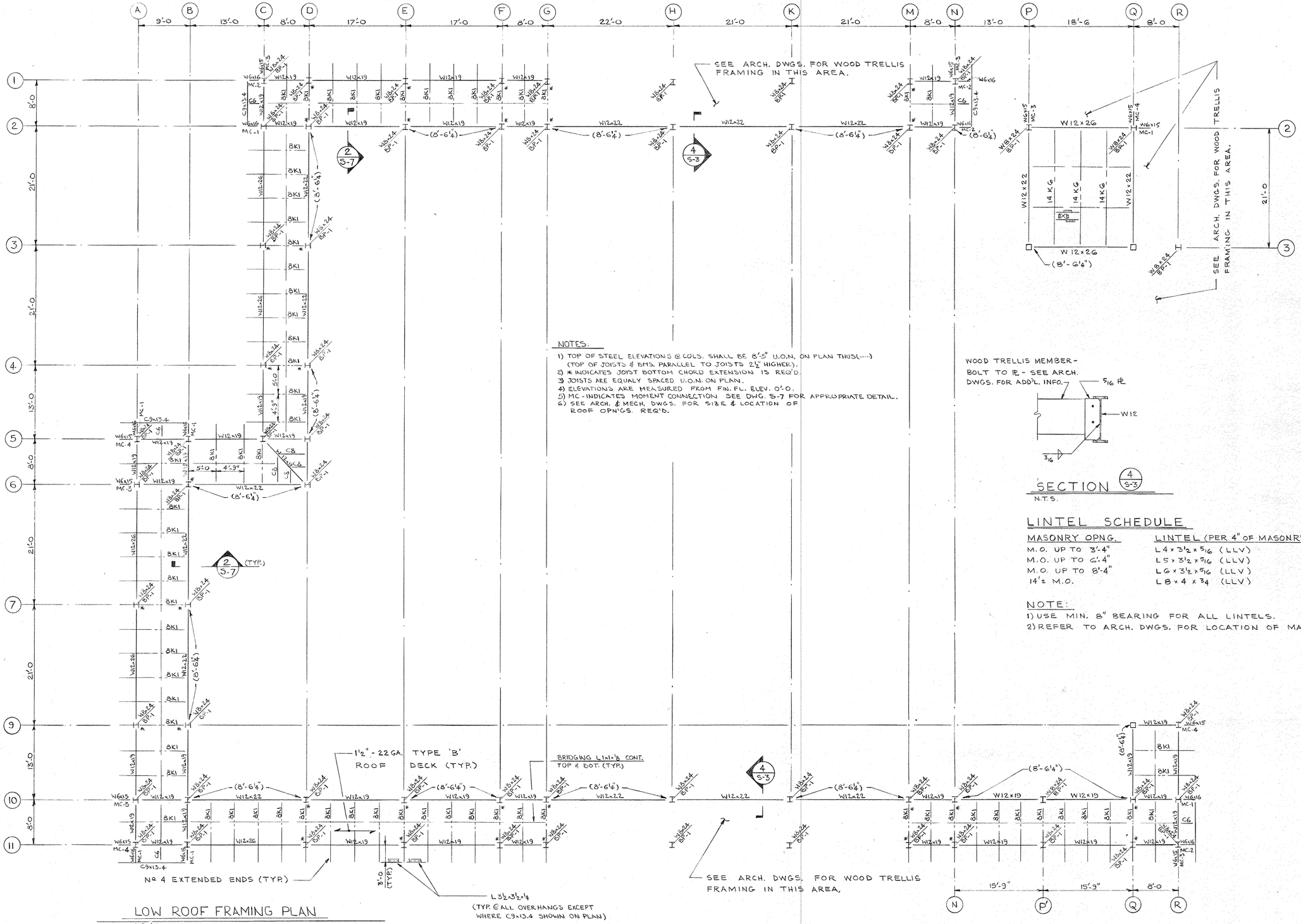
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LOW ROOF FRAMING PLAN

1/8"=1'-0

NOTE: CONTRACTOR SHALL CONFIRM CONDITION OF EXIST. STEEL PRIOR TO THE START OF STEEL DETAILING.

NOTES:

1) TOP OF STEEL ELEVATIONS @ COLS. SHALL BE 8'-5" U.O.N. ON PLAN THUS(....) (TOP OF JOISTS & BMS. PARALLEL TO JOISTS 2½" HIGHER).
2) * INDICATES JOIST BOTTOM CHORD EXTENSION IS REQ'D.
3) JOISTS ARE EQUALY SPACED U.O.N. ON PLAN.
4) ELEVATIONS ARE MEASURED FROM FIN. FL. ELEV. 0'-0.
5) MC - INDICATES MOMENT CONNECTION; SEE DWG. S-7 FOR APPROPRIATE DETAIL.
6) SEE ARCH. & MECH. DWGS. FOR SIZE & LOCATION OF ROOF OPN'GS. REQ'D.

WOOD TRELLIS MEMBER - BOLT TO ℄ - SEE ARCH. DWGS. FOR ADD'L. INFO.

SECTION 4/S-3

N.T.S.

LINTEL SCHEDULE

MASONRY OPNG.	LINTEL (PER 4" OF MASONRY)	REMARKS
M.O. UP TO 3'-4"	L 4 x 3½ x 5/16 (LLV)	
M.O. UP TO 6'-4"	L 5 x 3½ x 5/16 (LLV)	
M.O. UP TO 8'-4"	L 6 x 3½ x 5/16 (LLV)	LOCATED @ DISPLAY CASE (SEE DET. "C" ON DWG. A-17)
14'± M.O.	L 8 x 4 x ¾ (LLV)	

NOTE:

1) USE MIN. 8" BEARING FOR ALL LINTELS.
2) REFER TO ARCH. DWGS. FOR LOCATION OF MASONRY OPENINGS & LINTEL ELEVS.

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REVISIONS

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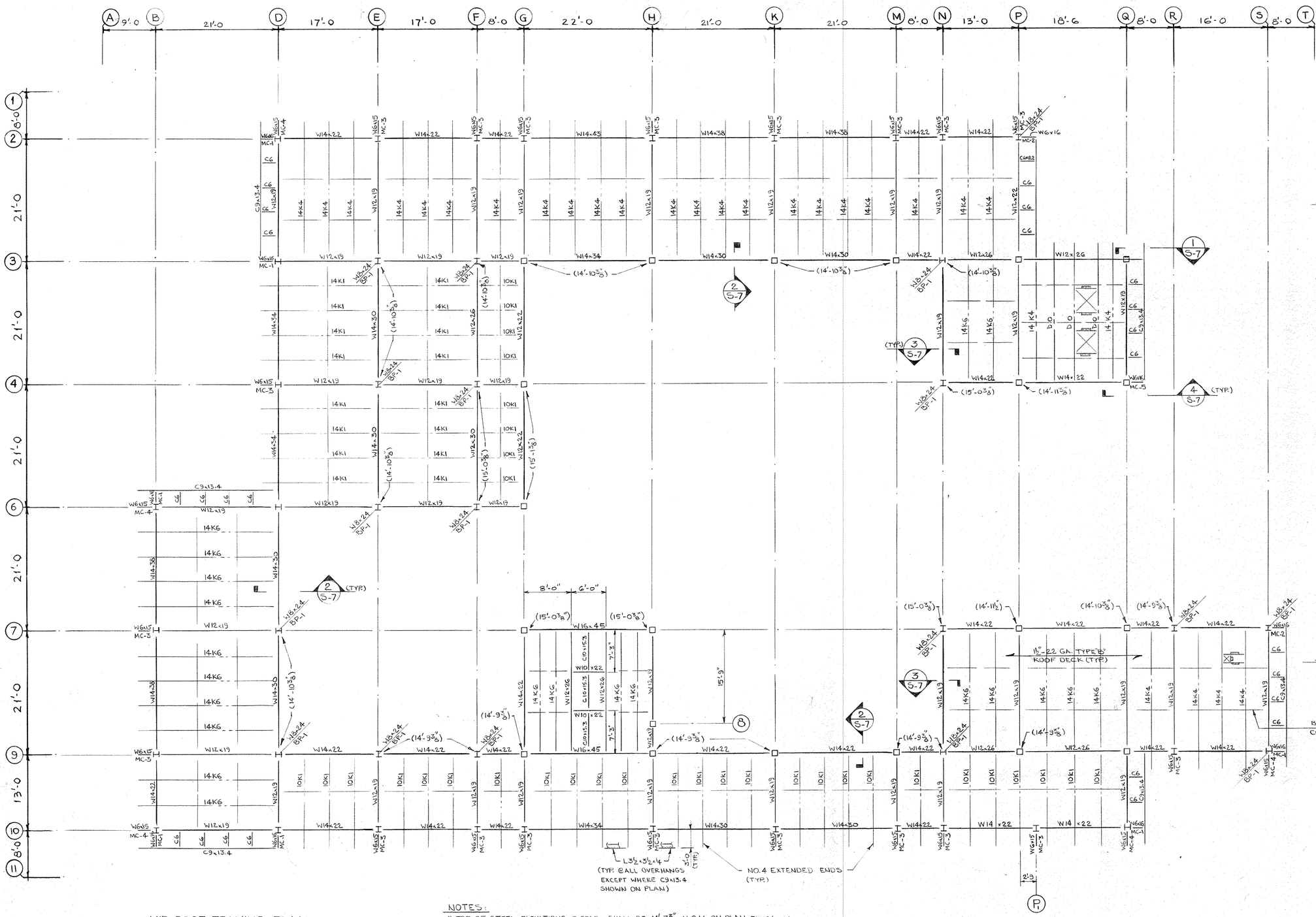
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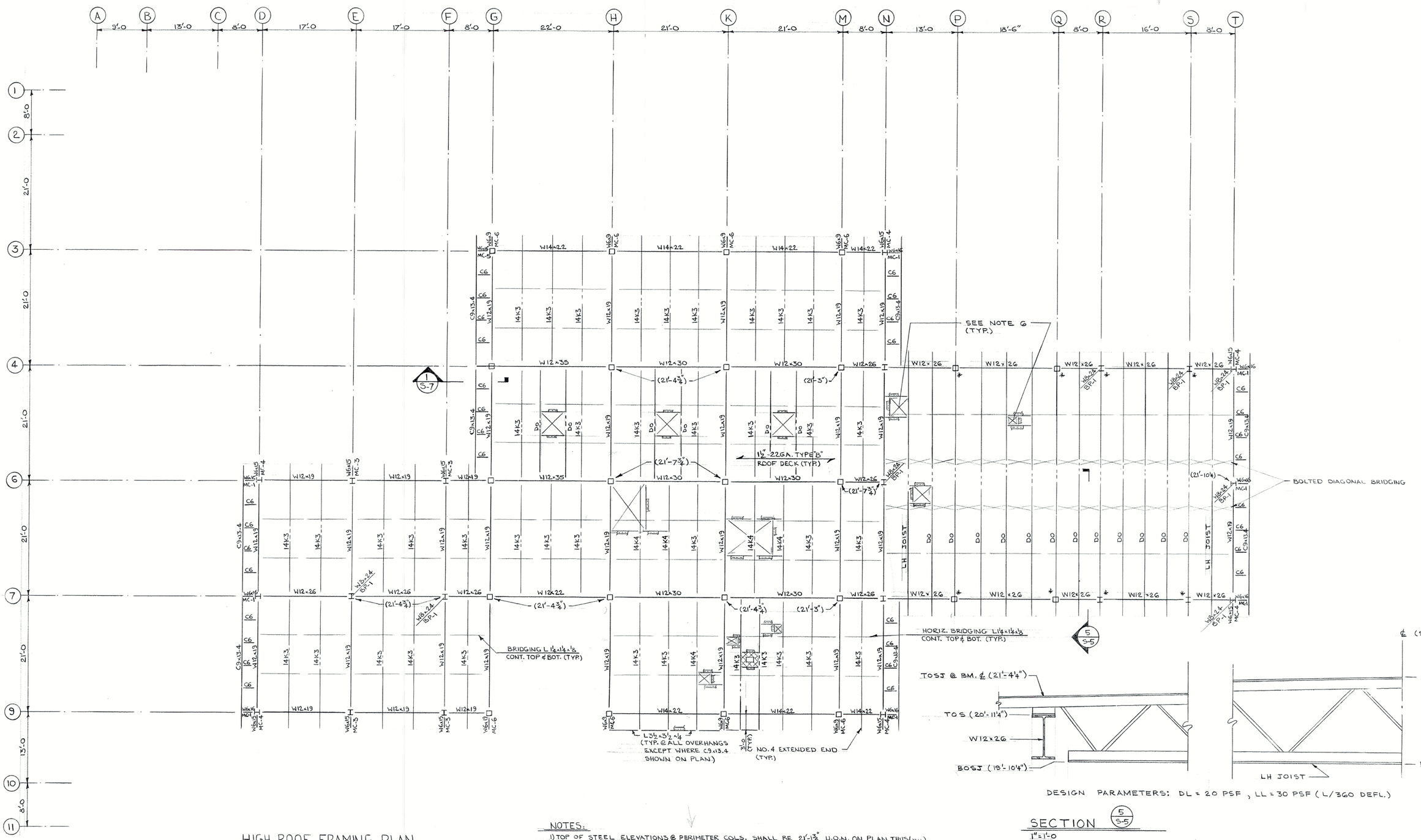
TITLE
LOW ROOF FRAMING PLAN

DRAWING
STRUC
3

JOB NO.
8601

Michael Esmay Architecture • Planning • Interior Design
17 Van Houten Street, Upper Nyack, N.Y. 10960 (914) 358-0933


A B D E F G H K M N P Q R S T
1 2 3 4 6 7 8 9 10 11
9'-0 21'-0 17'-0 17'-0 8'-0 22'-0 21'-0 21'-0 8'-0 13'-0 18'-6 8'-0 16'-0 8'-0
8'-0 21'-0 21'-0 21'-0 13'-0 8'-0
W6x15 MC-1
W6x15 MC-2
W6x15 MC-3
W6x15 MC-4
W6x16 MC-5
W12x19
W14x22
W14x30
W14x34
W14x38
W14x43
W12x26
W12x22
W14x34
W14x30
W14x26
W14x22
W14x30
W14x38
W14x34
W14x30
W14x22
W14x22
W14x22



DESIGN PARAMETERS: DL = 20 PSF , LL = 30 PSF (L/360 DEFL.)

HIGH ROOF FRAMING PLAN
16"=1'-0

SECTION 5 S-5
1"=1'-0

NOTES:
1) TOP OF STEEL ELEVATIONS @ PERIMETER COLS. SHALL BE 21'-1⅜" U.O.N. ON PLAN THUS(---)
(TOP OF JOISTS & BMS. PARALLEL TO JOISTS 2½" HIGHER - U.O.N.)
2) ELEVATIONS ARE MEASURED FROM FIN. FL. ELEV. 0'-0".
3) MC- INDICATES MOMENT CONNECTION SEE DWG. S-7 FOR APPROPRIATE DETAIL.
4) ALL GIRDER TO "TS" COL. CONNECTIONS SHALL BE STANDARD A.I.S.C. THRU PLATE CONNECTIONS.
5) □ INDICATES "TS" COL. SEE COLUMN SCHEDULE DWG. S-4.
6) SEE ARCH. & MECH. DWGS. FOR SIZE & LOCATION OF ROOF OPNGS. REQ'D.

JOB NO. 8725

T&M ENGINEERS, P.C.
CONSULTING ENGINEERS
NYACK NEW YORK

DATES
N.Y.S.E.D. APPROVAL 1-11-88
N.Y.S.E.D. 2-1-89
FOR BID 2-21-89

REVISIONS

NYSED 50-03-08-03-6-005-001

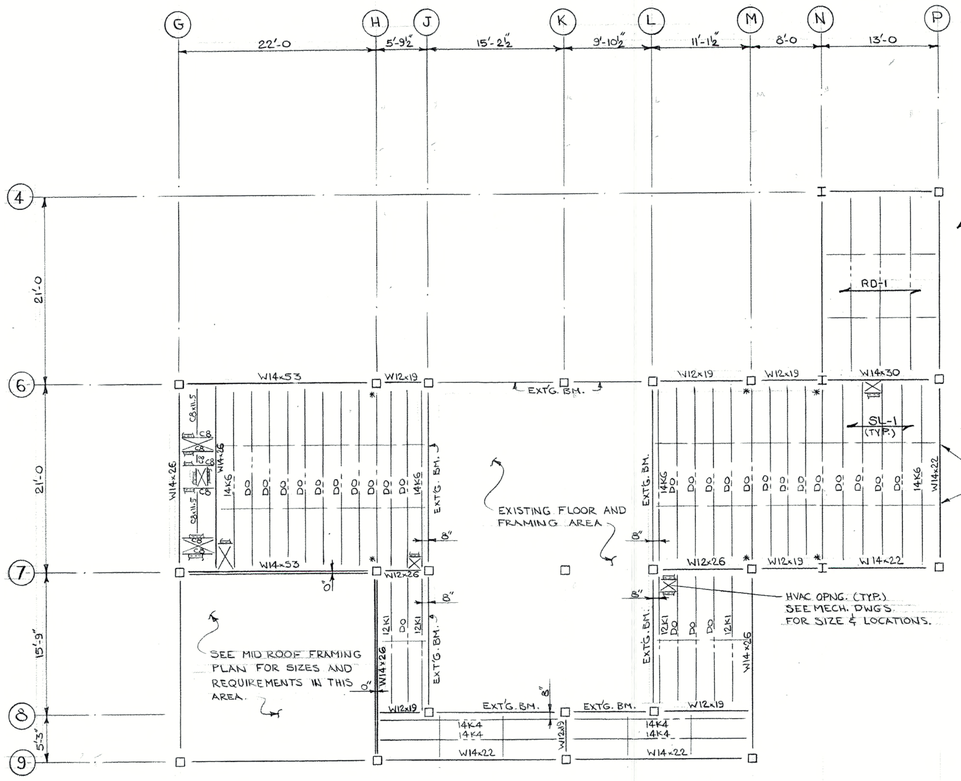
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TITLE
HIGH ROOF FRAMING PLAN

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5

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JOB NO. 8601



REUSE EXISTING MEMBERS RELOCATED AS SHOWN FOR NEW DUCT SUPPORT. SEE ARCH. DWGS. FOR ADDITIONAL INFO.

RD-1 : 1½" - 22 GA. TYPE "B" DECK.

SL-1 : 3" CONC. SLAB W/ 6x6-P/8 W.W.F. ON 9/16" - 28 GA. SLAB FORM (GALV.) (TYP.)

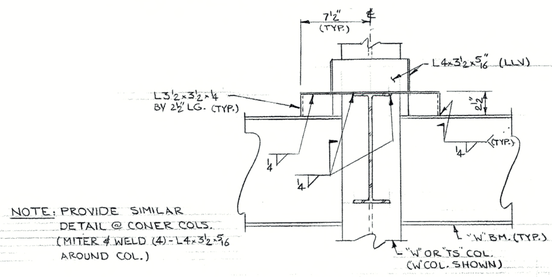
BRIDGING - ½ Φ ROUND BAR CONT. TOP & BOT. (TYP.)

SECOND FLOOR FRAMING PLAN

1/8"=1'-0

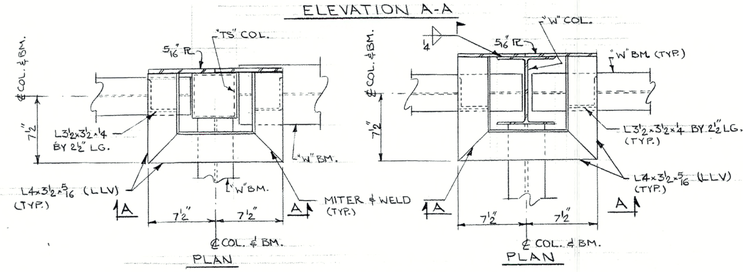
NOTES:

1) TOP OF STEEL ELEVATIONS SHALL BE @ 10'-1" (TOP OF JOISTS & BMS. PARALLEL TO JOISTS 2½" HIGHER).
2) ELEVATIONS ARE MEASURED FROM FIN. FL. ELEV. 0'-0.
3) * INDICATES JOIST BOT. CHORD EXTENSION IS REQ'D.
4) ALL C8's SHALL BE C8x11.5.



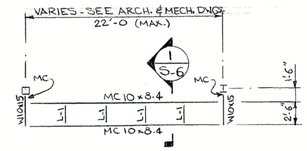
NOTE: PROVIDE SIMILAR DETAIL @ CONER COLS. (MITER & WELD (4) - L4x3½x5/16 AROUND COL.)

ELEVATION A-A



TYP. BRICK SHELF DETAIL @ COLS.

1½"=1'-0

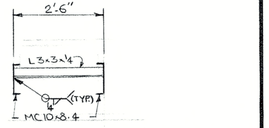


TYP. DUCT SUPPORT FRAMING PLAN

1/8"=1'-0 (SEE ARCH. & MECH. DWGS. FOR LOCATIONS)

NOTES:

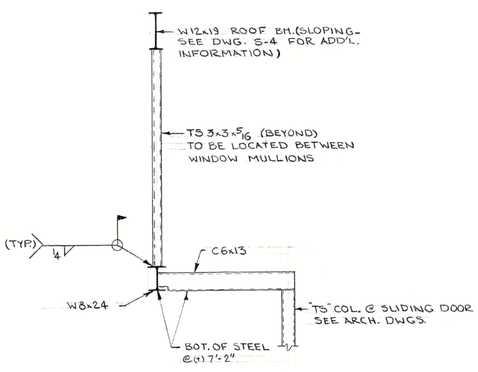
1) L-1 : L3x3x¼ @ 4'-6" MAX. SPACING.
2) MC : INDICATES MOMENT CONNECTION - USE DETAIL MC-1, MC-2 OR MC-5 ON DWG. S-7 AS MAY BE APPROPRIATE.



SEE ARCH. & MECH. DWGS. FOR TOP OF STEEL ELEVATIONS

SECTION 1/S-6

1/2"=1'-0



SECTION 2/S-6

1/2"=1'-0

William A Esmay

JOB NO. 8725

T&M ENGINEERS, P.C.
CONSULTING ENGINEERS
NYACK NEW YORK

DATES
N.Y.S.E.D. APPROVAL 1-11-88
N.Y.S.E.D. 2-1-89
FOR BID 2-21-89

REVISIONS
"ELIM." COL. H-8 8-5-89

NYSED 50-03-08-03-6-005-001

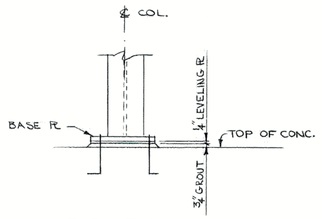
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TITLE
SECOND FLOOR FRAMING PLAN

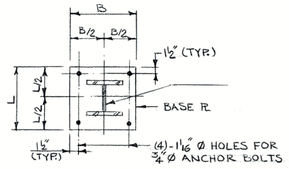
DRAWING
STRUC
6

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JOB NO. 8601



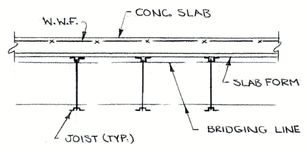
ELEVATION



PLAN

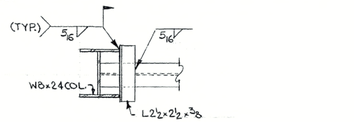
TYP. COLUMN BASE DETAIL

N.T.S.

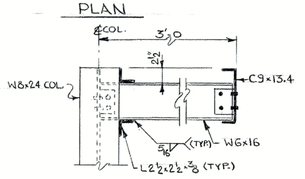


TYP. SECTION THRU SLAB

N.T.S.



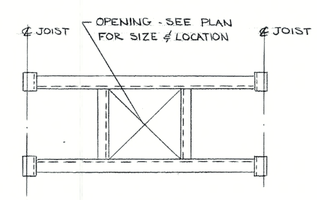
PLAN



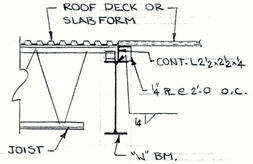
ELEVATION

MC-2 CONNECTION

1"=1'-0



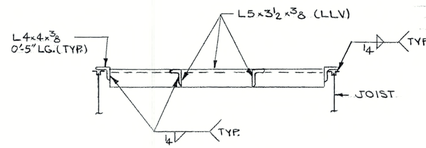
PLAN



NOTE: LOCATE L2½×2½ TO ALLOW 2½" FOR JOIST BEARING

TYP. DETAIL @ CHANGE OF DECK DIRECTION

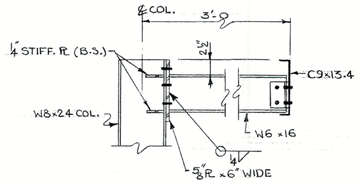
N.T.S.



SECTION

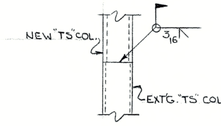
TYP. ROOF OPENING FRAME DETAIL

N.T.S.



MC-1 CONNECTION

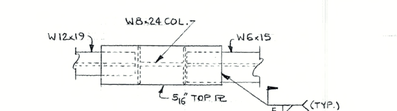
1"=1'-0



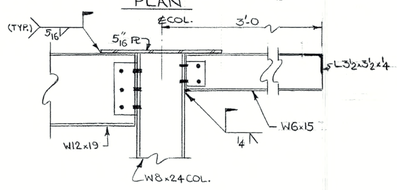
TYP. NEW "TS" COL. CONNECTION

1"=1'-0

PLAN

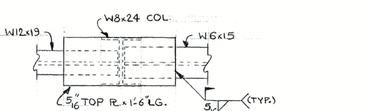


PLAN

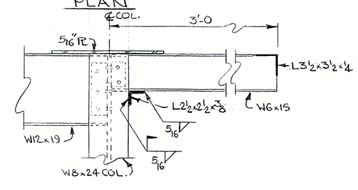


MC-3 CONNECTION

1"=1'-0

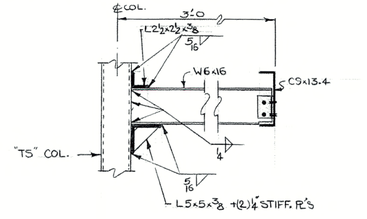


PLAN



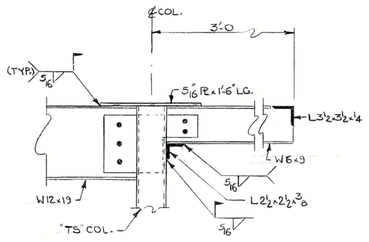
MC-4 CONNECTION

1"=1'-0



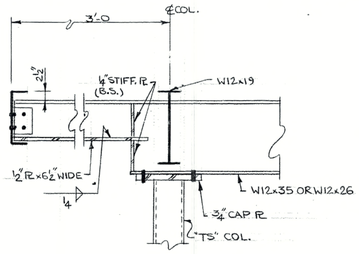
MC-5 CONNECTION

1"=1'-0



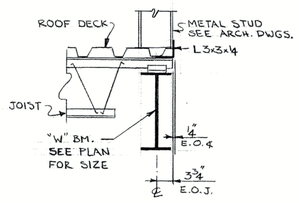
MC-6 CONNECTION

1"=1'-0



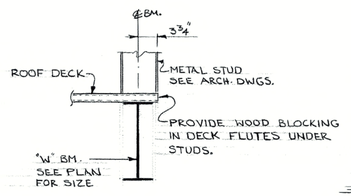
SECTION (1/S-7)

1"=1'-0



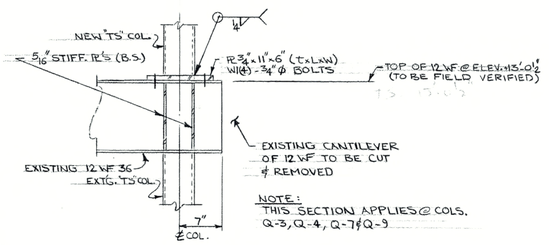
SECTION (2/S-7)

1"=1'-0



SECTION (3/S-7)

1"=1'-0



SECTION (4/S-7)

1"=1'-0

G E N E R A L N O T E S

GENERAL

All construction shall be in accordance with the requirements of "The New York State Building Code," latest edition, and local ordinances.

The Contractor shall verify all existing dimensions and conditions in the field before commencing work.

The Contractor shall provide the necessary coordination between all trades with regard to the drawings. Locate bolts, sleeves, and trenches as required for mechanical trades, and provide and/or install various items not shown on these drawings but as required for various trades.

Work these drawings in conjunction with the architectural drawings prepared by Michael Esmay, Architect.

STRUCTURAL STEEL

All steel shall be designed, fabricated and erected in accordance with the requirements of A.I.S.C. "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings,"latest edition.

All welding where specified or authorized shall conform to the requirements of above A.I.S.C. specifications and the "Code for Welding in Building Construction" of the American Welding Society, latest edition.

Framing shall be flush top for each level unless otherwise shown or noted. Numbers +1" or -1" indicate distance to top of beams above or below framing level.

Shop connections shall be bolted with high strength bolts or welded. Holes shall be 13/16" diameter, bolts 3/4" diameter, unless otherwise noted. Burned holes shall not be permitted. No connection shall have less than two (2) bolts or an equivalent weld. Minimum weld size shall be 1/4" unless otherwise noted.

Standard web connections shall be provided for connecting beams to beams and beams to columns where possible, unless otherwise shown or noted. Where position of members prohibits the use of a standard web connection, a connection equivalent to the standard web connection shall be provided. Connection shall be provided to satisfy end reactions where noted on the plans, thus R=30 kips.

All structural steel shall be given one coat of shop paint. Shop painting and surface preparation shall be in accordance with the provisions of the Code of Standard Practice, latest edition, of A.I.S.C. (U.O.N.).

JOISTS

Open web and longspan steel joists and accessories shall be designed, manufactured and erected in accordance with the requirements of the specifications of the Steel Joist Institute, latest edition.

At joist ends marked with *, thus ____*, bottom chord shall be extended and connected to column or beam.

Horizontal and diagonal bridging shall be provided as shown on the drawings and in conformance with the manufacturer's specifications. All bridging and bridging anchors shall be completely installed before construction loads are placed on the joists.

Joists without chord designation shall be designed for concentrated loads as shown on plans in addition to roof dead and live loads.

All steel joists and accessories shall receive one shop coat of paint which shall comply with the applicable Steel Joist Institute specification of latest adoption.

SLABFORM

Slabform shall be United Steel Deck Uniform UFS or approved equal.

Minimum required properties:

Moment of Inertia = 0.012 $in^4/ft.$
Section Modulus = 0.039 $in^3/ft.$

9/16" - 28 gage, galvanized.

Layout and erection of slabform shall be in accordance with manufacturer's specifications.

Slabform shall be attached to supports by welding thru 16 gage welding washers. Follow manufacturer's specifications for welding pattern.

To prevent concrete leakage at side laps, concrete shall be placed in opposite direction to which sheets were erected.

Concrete admixtures containing calcium chloride (or other salts) should not be used over steel forms.

METAL ROOF DECK

The steel deck shall be designed and manufactured in accordance with the requirements of the "Basic Design Specifications" as adopted by the Steel Deck Institute.

Steel deck shall be Wide Rib Deck with minimum required properties as follows:

1-1/2" - 22 gage roof deck - painted.

Moment of Inertia = 0.169 $in^4/ft.$

Section Modulus = 0.213 $in^3/ft.$

Steel Deck shall receive one prime coat of manufacturer's standard paint.

Steel deck shall extend over three or more spans. Steel deck shall be erected and welded (puddle weld 5/8" diameter minimum) in accordance with the manufacturer's specifications and erection layout.

Cutting opening thru the deck less than 16 square feet in area and skew cutting, shall be performed in the field. Openings not shown on the drawing shall be cut and reinforced if necessary, by the trade requiring the openings.

SPECIAL NOTE

The frame of steel skeleton shall be braced during erection using temporary bracing in accordance with the requirements of the Code of Standard Practice, latest edition, of A.I.S.C. The bracing shall be designed to take care of all loads to which the structure may be subjected, including equipment and the operation of same. Such bracing shall be left in place until the entire structure functions as unit or longer if required for safety.

DESIGN DATA

Structural Steel	Tube Columns	ASTM-A500, Grade B
	Shapes and Plates	ASTM-A36
Anchor Bolts		ASTM-A36
High Strength Bolts		ASTM-A325, Type 1
Welding Electrodes-Series		E70
Joists: K & LH Series, Allowable Stress		30,000 psi
Steel Roof Deck		ASTM-A611, grade C
Concrete		f'_c = 3,000 psi @ 28 days
Reinforcing Bars		ASTM-A615, grade 60
Welded Wire Mesh		ASTM-A185

DESIGN LOADS:

ROOF:

DEAD LOAD : 20 PSF { ADJUSTED FOR HIGH ROOF
LIVE LOAD : 30 PSF { LOW ROOF CONDITION

SECOND FL. ADDITION:

DEAD LOAD : 50 PSF
LIVE LOAD : 100 PSF

JOB NO. 8725

T&M ENGINEERS, P.C.
CONSULTING ENGINEERS
NYACK NEW YORK

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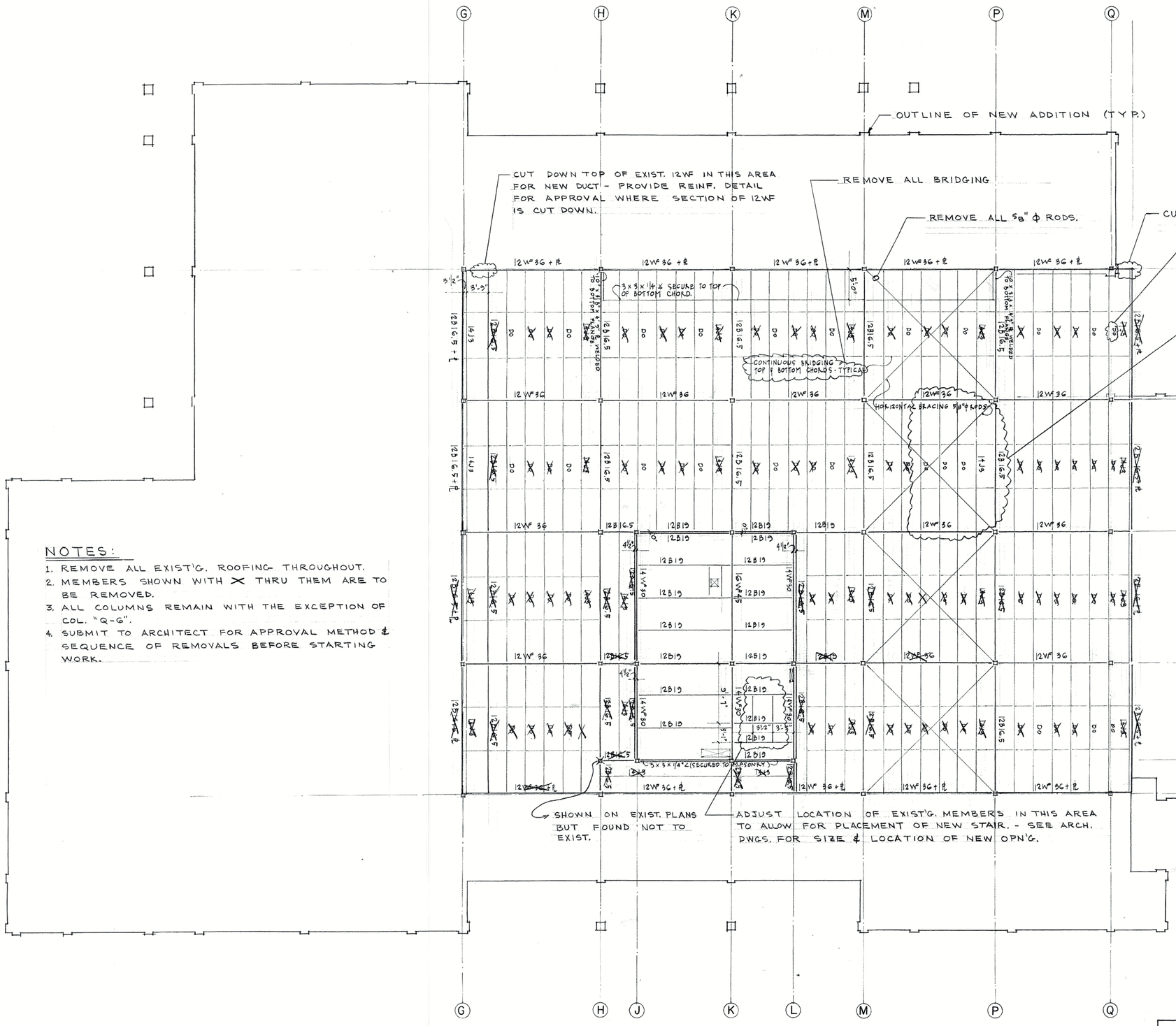
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Michael Esmay Architecture • Planning • Interior Design
17 Van Houten Street, Upper Nyack, N.Y. 10960 (914) 358-0933

JOB NO. 8601

NOTES:

1. REMOVE ALL EXIST'G. ROOFING THROUGHOUT.
2. MEMBERS SHOWN WITH X THRU THEM ARE TO BE REMOVED.
3. ALL COLUMNS REMAIN WITH THE EXCEPTION OF COL. "Q-G".
4. SUBMIT TO ARCHITECT FOR APPROVAL METHOD & SEQUENCE OF REMOVALS BEFORE STARTING WORK.



EXIST'G. ROOF & PENTHOUSE FLOOR FRAMING PLAN

1/8" = 1'-0

NOTE: T.O.S. ELEV. @ PENTHOUSE FL. = +10'-0"±
T.O.S. ELEV. @ ROOF = 12'-10"± (JOISTS & BMS. PARALLEL TO JOISTS 2½" HIGHER.)

EXIST'G. PENTHOUSE ROOF FRAMING PLAN

1/8" = 1'-0

NOTE: T.O.S. @ EL. 13'-2½± (JOISTS & BMS. PARALLEL TO JOISTS 2½" HIGHER)

T&M ENGINEERS, P.C.
CONSULTING ENGINEERS
NYACK NEW YORK
(NO 8725)

DATES N.Y.S.E.D. 2-1-89
FOR BID 2-21-89

REVISIONS
"ELIM." COL. H-8 8-5-89

NYSED 50-03-08-03-6-005-001

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TITLE
EXIST'G. STEEL FRAMING REMOVAL PLAN

DRAWING
STRUC
8

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17 Van Houten Street, Upper Nyack, N.Y. 10960 (914) 358-0933

JOB NO. 8601

RECESSED 6"X 12" 3 LAMP (TANDEM) 34W FIXTURE WITH RECESSED LENS SIMILAR TO TYPE F1 EXCEPT 6" WIDE @ (1) LAMP

NOTE: (3) 3-WAY & (9) 4-WAY FOR LRS & G

50 A HC - RELAY 120V. COIL IN UNSWITCHED NORM-CKT

TYP-LTS NORMALLY OFF

TO DIM PNL

TO DIM PNL W

TO DIM PNL E

TO DIM PNL E,W

DIMMER PANEL (9) DMRS

PCR-1

PCR-2

LUTRON WSA-4

TYPICAL LUTRON WSA-4

PHOTOCELL SWITCHES

PHOTOCELL SWITCH

EMERG PWR SUPPLY

EM-1

EM-2

EM-3

SKYLT

SECTION A-A

1S, 2S, 3S & 34W T12 AS APPROPR STRIPLIGHT CO LAMP CONTINUOUS FLUORESCENT BY ELEC CONTRACTOR

CONTINUOUS WOOD BAFFLE - BY G.C.

WALL

NO SCALE

TYPICAL "N" = NIGHT LIGHT (PHOTOCELL ONLY CONTROL)

SLOT (TYP)

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PEARL RIVER, NEW YORK

DATES NYSED FOR BID 1/5/87 2/2/87

REVISIONS

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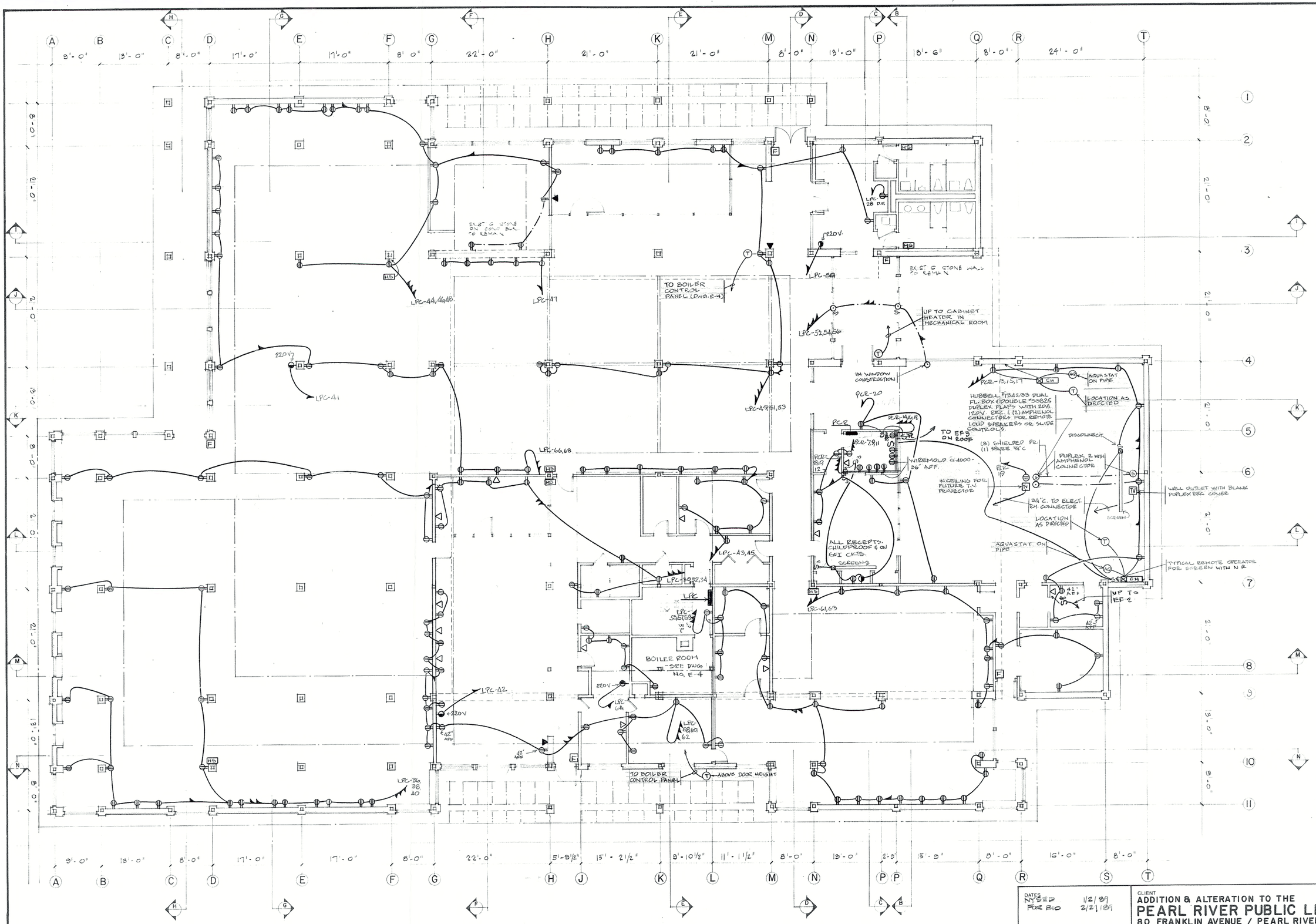
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TITLE
LOWER & INTERMEDIATE LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

DRAWING
E LEC T
1

Michael Esmay Architecture • Planning • Interior Design
17 Van Houten Street, Upper Nyack, N.Y. 10960 (914) 358-0933

JOB NO. 8601



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DATES NYSED 1/2/89
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TITLE
LOWER LEVEL & INTERMEDIATE POWER PLAN

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PANEL P2P — MAIN C.B. 175A

3 PHASE 4 WIRE 60 HZ
CONDUIT SIZE PER CODE, MINIMUM SIZE SHOWN GF=GROUND FAULT INTERRUPT CB

CKT	LOAD	POLE	AMPS	NO	AWG	COND	REMARKS
1	AC-2	3	70	3	6	1"	
3							
5							
7	AC-3	3	30	3	10	3/4"	
9							
11							
13	P1	3	20	3	12	1/2"	
15							
17							
19	P2	3	20	3	12	1/2"	
21							
23							
25	P3	3	30	3	8	3/4"	VIA STARTER
27							
29							
31	P4	3	30	3	8	3/4"	VIA STARTER
33							
35							
37	COOLING TOWER	3	15	3	12	1/2"	
39							
41							
2	P5	3	15	3	12	1/2"	
4							
6							
8	P6	3	15	3	12	1/2"	
10							
12							
14	P7	3	15	3	12	1/2"	
16							
18							
20	P8	3	15	3	12	1/2"	
22							
24							
26	EF-4	1	15	2	12	1/2"	VIA STARTER
28	EF-5						
30	EF-6						
32	EF-7						
34	HVAC CONTROLS		20				RUN TO PANEL
36	CABINET HEATERS		20				
38							
40	AIR COMPRESSOR	3	30	3	10	1/2"	LOCATION AS DIRECTED
42							
43	SPARES	1	20				
45							
47							
49							
51			15				
53							
55							
57	SPACES						
59							
14	SPACES						
46							
48							
50							
52							
54							
56							
58							
60							

PANEL PCB — MAIN

120/208V. 3 PHASE 4 WIRE 60 HZ
CONDUIT SIZE PER CODE, MINIMUM SIZE SHOWN GF=GROUND FAULT INTERRUPT CB

CKT	LOAD	POLE	AMPS	NO	AWG	COND	REMARKS
1	SPARE	1	20				
3	DOWNLIGHTS	1	20	2	12	3/4"	
5	"						
7	STORY HOUR REC.						
9	" " "						
11	" " "						
13	COMMUNITY RM. REC.						
15	" " "						
17	" " "						
19	" " "						
21	SPARE						
23							
25							
27							
29							
31	SPACE						
33							
35							
37			50				
39	DIMMER BANK	3	50	4	6	1 1/4"	
41			50				
2	COMMUNITY RM. LTG	1	20	2	12	3/4"	
4	" " "						
6	" " "						
8	WIREMOLD REC.						
10	" "						
12	" "						
14	" "						
16	" "						
18	" "						
20	RECEPT. MISC.						
22	SPARE						
24							
26							
28							
30							
32	SPACE						
34							
36							
38							
40							
42							

PANEL LPC (CONT) — MAIN

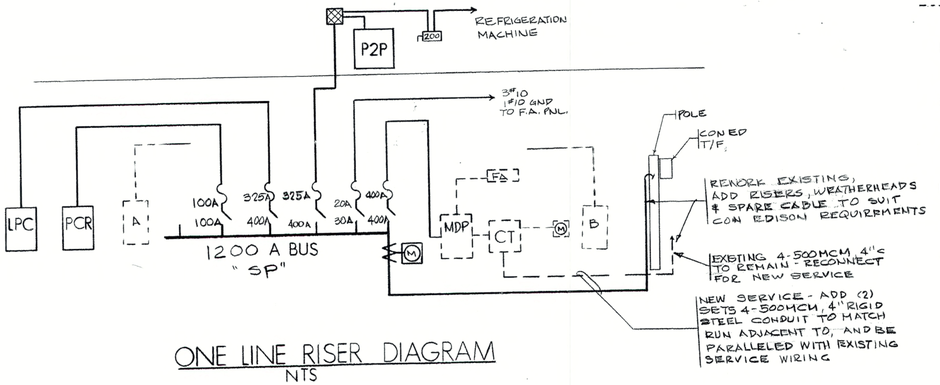
120/208V 3 PHASE 4 WIRE 60 HZ
CONDUIT SIZE PER CODE, MININUM SIZE SHOWN GF=GROUND FAULT INTERRUPT CB

CKT	LOAD	POLE	AMPS	NO	AWG	COND	REMARKS
43	COPR. & MISC. RECEPT.	1	20	2	12	3/4"	
45	" " "						
47	CARD CATALOG REC.						
49	CHARGE DESK & MISC. REC.						
51	" " "						
53	" " "						
55	CHILDRENS LIBRARY & MISC. REC						
57	" " " "						
59	" " " "						
61	" " " "						
63	" " " "						
65	2ND FL. LTG.						
67	STAFF RM. & WORK RM. LTG.						
69	" " "						
71	" " "						
73	MECH. RM. & MISC. LTG						
75	SPARE						
77							
79							
81							
83							
44	FICTION STACKS REC.	1	20	2	12	3/4"	
46	" " "						
48	" " "						
50	COPIER						
52	SLIDING DOOR						
54	" "						
56	" "						
58	OFFICE REC.						
60	" "						
62	" "						
64	REC.						
66	"						
68	"						
70	2ND FL. LTG						
72	DOWNLIGHTS						
74	"						
76	"						
78	SPARE						
80							
82							
84	EMERG. POWER UNIT 5KW		60	2	6	1"	

PANEL LPC — MAIN

120/208V 3 PHASE 4 WIRE 60 HZ
CONDUIT SIZE PER CODE, MINIMUM SIZE SHOWN GF=GROUND FAULT INTERRUPT CB

CKT	LOAD	POLE	AMPS	NO	AWG	COND	REMARKS
1	EXTERIOR LTG.	1	20	2	12	3/4	
3	" "						
5	" "						
7	CHILDRENS LIBRARY						
9	" "						
11	" "						
13	STACKS LTG						
15	" "						
17	" "						
19	" "						
21	" "						
23	" "						
25	DOWN LTG.						
27	REFERENCE AREA LTG.						
29	" " "						
31	" " "						
33	SPARE						
35	"						
37	"						
39	" "						
41	READING REC.			2	12	3/4	
7	CHILD LTG.						
4	" "						
6	" "						
8	CHARGE DESK & TOILET LTG						
10	" " "						
12	" " "						
14	PEARL RIVER RM. LTG						
16	TRACK LTG.						
18	" "						
20	" "						
22	" "						
24	" "						
26	" "						
28	SPARE						
30	MISC. RECEPT			2	12	3/4	
32	" "						
34	" "						
36	READING REC.						
38	" "						
40	" "						
42	STONE						



ONE LINE RISER DIAGRAM
NTS

- S_2 WALL SWITCH, 120/277 VOLT, 20 AMPERE, IVORY HANDLE, MOUNTED IN FLUSH OUTLET BOX, 48 " AFF. LETTER ADJACENT CORRESPONDS TO LIGHTING FIXTURES WITH SAME DESIGNATION, TO BE CONTROLLED BY THE SWITCH.
- D DIMMER LEVITTON 6606-I
- D DIMMER LUTRON VSA-4 (DIMMER BANK CONTROLLER)
- PANELBOARD
- S_3 3 WAY SWITCH
- CONDUIT AND WIRE, PER CODE, AS SPECIFIED, SCHEDULED, AND/OR SHOWN, GENERALLY RUN CONCEALED IN CEILING AND WALLS, IN RIGID, GALVANIZED STEEL CONDUIT, OR E.M.T.
- SAME AS ABOVE EXCEPT RUN CONCEALED UNDERFLOOR.
- SAME AS ABOVE. HOME RUN TO PANEL AND CIRCUIT INDICATED.
- HUBBELL 5252-I DUPLEX STRAIGHT BLADE STANDARD FEMALE RECEPTACLE GENERALLY MOUNTED HORIZONTALLY; 16" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
- SAME AS DUPLEX HUBBELL 5252-1 EXCEPT FLOOR MOUNTED.
- CEILING OR WALL MOUNTED JUNCTION BOX
- TELEPHONE OUTLET WITH 3/4" C. RISER TURNED OUT ABOVE HUNG CLG.
- CONDUIT OR WIRING UP/DOWN
- SD CEILING TYPE SMOKE DETECTOR (RECESSED)
- SD_S " " " " (SURFACE)
- SD DUCT OR A/C UNIT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBE FULL WIDTH OF PLENUM
- HS HORN STROBE FIRE ALARM
- F MANUAL FIRE ALARM STATION
- FAS A/C UNIT FIRE ALARM SHUTDOWN INTERFACE RELAY CONNECTION
- RECESSED INCANDESCENT WALL WASHER
- SAME AS TELEPHONE OUTLET, EXCEPT FOR FUTURE COMPUTER CABLE
- SP SWITCH, PILOT LT. (ON WITH FAN) & ENGRAVED NAMEPLATE
- MCH CABINET HEATER CONNECTIONS
- EP ELECTRO PNEUMATIC SWITCH
- MOTOR CONTROLLER - MOUNT & CONNECT

SYMBOLS

- CONCEALED LIGHTING OUTLET BOX AND 4 FT. TO 6 FT. FLEXIBLE CONDUIT.
- RECESSED INCANDESCENT OR FLUORESCENT, REVIEW ARCHITECTURAL DWG. FOR DESCRIPTION AND MOUNTING INFORMATION.
- 3 x 3 (6) LAMP FLUOR. LIGHT FIXT. LEGION 83-630 (BOARD ROOM ONLY)
- SAME AS ABOVE EXCEPT LEGION 53-830 (OFFICE ONLY)
- 2 x 4 FLUORESCENT LIGHT FIXTURE, GENERALLY RECESSED WITH 35 WATT T-12 WARM WHITE FLUORESCENT LAMPS AND ELECTRONIC BALLAST. REVIEW ARCHITECTURAL DWG. FOR DESCRIPTION AND MOUNTING INFORMATION.
- SAME AS ABOVE EXCEPT 2 x 2 FIXTURE
- SAME AS 2 x 4 FIXTURE EXCEPT FIXTURE SHALL HAVE ONE LAMP ONLY CONNECTED TO EMERGENCY BATTERY INVERTER. PROVIDE FIXTURE WITH TWO SEPARATE BALLASTS
- SAME AS 2 x 2 FIXTURE EXCEPT FIXTURE SHALL HAVE ONE LAMP ONLY CONNECTED TO EMERGENCY BATTERY INVERTER. PROVIDE FIXTURE WITH TWO SEPARATE BALLASTS
- 1 x 4 FLUORESCENT LIGHT FIXTURE, WITH 35 WATT T-12 WARM WHITE FLUORESCENT LAMPS AND ELECTRONIC BALLAST.
- SAME AS ABOVE EXCEPT FIXTURE SHALL HAVE ONE LAMP ONLY CONNECTED TO EMERGENCY BATTERY INVERTER. PROVIDE FIXTURE WITH TWO SEPARATE BALLASTS.
- FLUORESCENT STRIP LIGHT. SEE ARCHITECTURAL FOR MOUNTING DETAILS AND TYPE.
- SAME AS ABOVE EXCEPT FIXTURE SHALL HAVE ONE BALLAST CONNECTED TO BATTERY INVERTER.
- TRACK LIGHTING.
- WALL MOUNTED INDIRECT FLUOR. LIGHT FIXT., SEE ARCH. FOR TYPE
- TRACK AND FLUOR. LIGHT FIXT.
- RECESSED INCANDESCENT OR FLUORESCENT ON EMERGENCY
- EXIT SIGN FIXTURE, ON EMERGENCY POWER SUPPLY WITH (2) 8 WATT FLUORESCENT LAMPS, RED LETTERS ON WHITE BACKGROUND, WITH QUANTITY OF FACES, DIRECTIONAL ARROWS. MOUNTING TYPE AS SHOWN OR REQUIRED. DARKENED QUADRANT INDICATES LIGHTED FACES UNIT TO BE McPHILBEN CO. 45 LINE OR AS SPECIFIED BY ARCHITECT.

LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	DESCRIPTION
A	(1)34W 4 FT LENGHT	SUSPENDED 4" DIA. EXTRUDED ALUMINUM TUBE WITH WHITE REFLECTOR ACRYLIC PRISMATIC SPREAD DOWNLIGHT LENS, FOR CONTINOUS OR INDIVIDUAL MOUNTING AS SHOWN, SUSPENDED BY AIRCRAFT CABLE ILLUMINATION CONCEPTS (KINGSTOWN RI.) #CL20-DR.A-120 WITH FINISH AS SELECTED BY ARCHITECT FINAL LENGHT AS SHOWN.
B	(2) 9W PL LAMP	RECESSED NATURAL ALZAK DOWNLIGHT WITH U.L. APPROVED BALLAST, NL CORP. #RF1124 & WHERE USED OUT OF DOORS RF1124 DL WITH DAMP LABEL AND COLD WEATHER BALLAST PROVIDE CLEAR LENS IF NECESSARY TO SEAL LAMPS.
C	(1) 150W	PENDANT (1) GLOBE CHANDELIER TO BE SELECTED BY ARCHITECT. FURNISH & INSTALL UNIT COMPLETE.
D	(1)100W	RECESSED SQUARE UNIT WITH REGRESSED LIGHT DISTRIBUTING LENS, BALLAST AND METAL HALIDE LAMP, GUTH #100W H53-1217SF OR EQUAL
E	M.H.	
F	(4) 34W FLOUR.	RECESSED FLUORESCENT WITH DEEP RECESSED WHITE ACRYLIC DUFFUSER NORMALLY 2'x4' LEGION #82-440
F1	(2) 34W FLOOR.	SAME EXCEPT 1'x4' TYPE LEGION #81-240
F2	(2) 40W "U" FLUOR.	SAME EXCEPT 2'x2' TYPE LEGION #82-2040
F1/2	1-75W SL	SAME EXCEPT 6" WIDE x 8' LONG FOR SHOWCASE
T3	PROVIDE FIXTURE AS SHOWN	TRACK - LENGTH AS SHOWN 3 CKT.
T	"	" - 1 CKT. LIGHOLIER ADVENT LYTESPAN OR BASIC LYTESPAN. PRIOR TO BID VERIFY WITH ARCHITECT MOUNTING HARDWARE NECESSARY FOR INSTALLATION AS REQD. BY ARCHITECT.
U	1-150W INCAND. A-21	RECESSED NATURAL ALZAK DOWNLIGHT WITH MEDIUM BASE SOCKET AND EXTRUDED ALUMINUM HEAT SINK. NL CORP. #R6888
Y	1-150W INCAND. A-21	RECESSED INCANDESCENT WALL WASHER WITH CLEAR SPECULAR ALZAK REFLECTOR. OMEGA LIGHTING #WY3000TW WD

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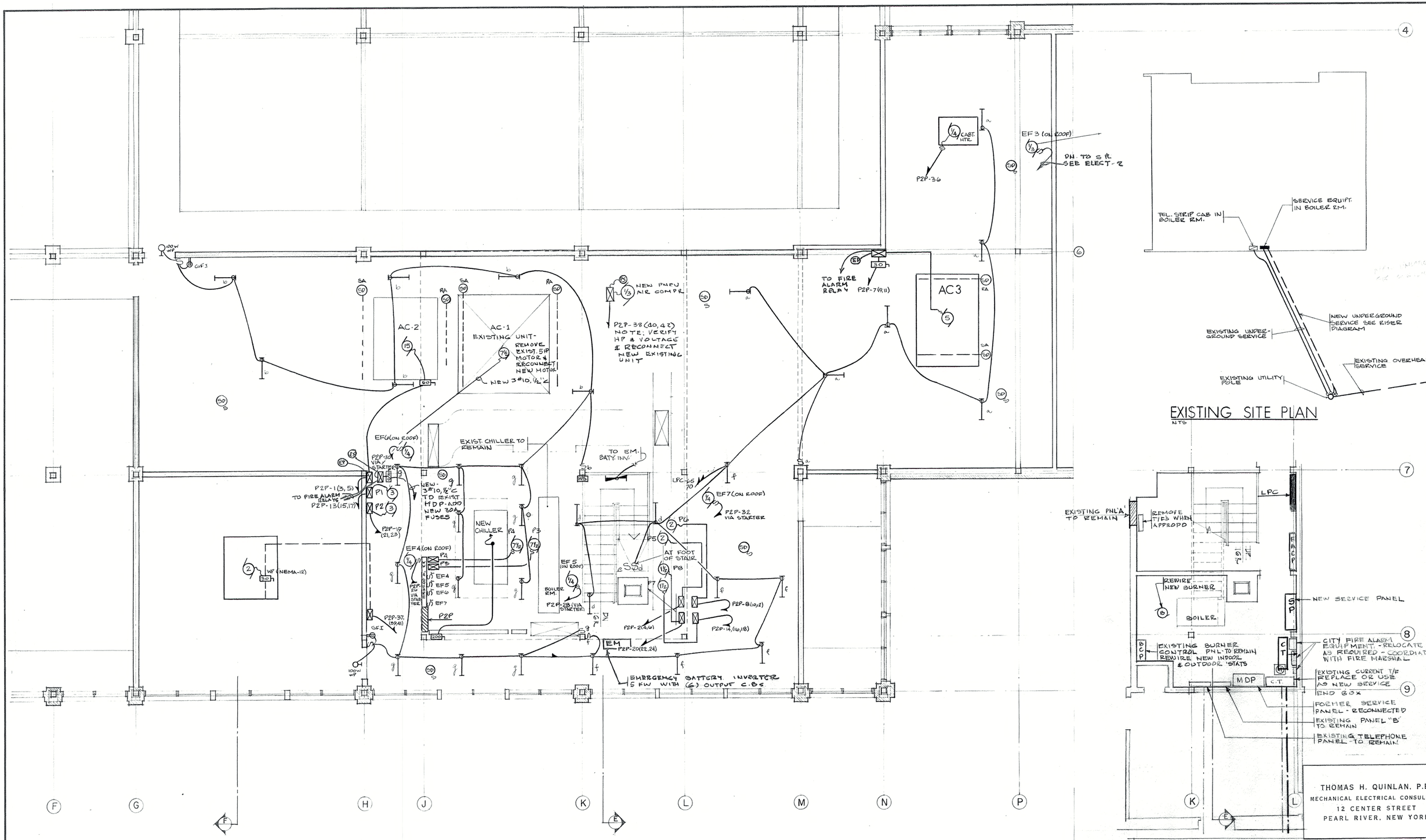
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TITLE
PANEL SCHEDULE, SYMBOLS & FIXTURE SCHEDULE

Michael Esmay Architecture • Planning • Interior Design
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JOB NO. 8601



PARTIAL SECOND FLOOR PLAN

EXISTING SITE PLAN

NTS

FIRST FLOOR MECHANICAL ROOM PLAN

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D. PROVIDE EACH SERVICE GROUND, UTILIZING COPPER CONDUCTORS, #4/0 MIN. INTERCONNECTING THREE EXTERIOR, DRIVEN 3/4" X 8 FT. COPPERWWELD GROUND RODS BONDED BY THERMIONIC WELDS AND INTERCONNECTED TO THE SERVICE COLD WATER GROUND. GROUND RODS SHALL BE A MINIMUM OF 3 FEET FROM THE BUILDING UNDER UNPAVED PLANTING.

9. LIGHTING FIXTURES

A. FURNISH AND INSTALL LIGHTING FIXTURES OF THE TYPES INDICATED ON ARCHITECT'S PLANS AND AS SCHEDULED ON THE DRAWINGS

B. PROVIDE ALL NECESSARY OUTLET BOXES, SUPPORTS, HANGER AND MOUNTING HARDWARE REQUIRED FOR A COMPLETE INSTALLATION, AND COORDINATED WITH THE FINAL CEILING TYPES INSTALLED FOR ACCESSORIES.

C. ALL FLUORESCENT FIXTURES SHALL BE EQUIPPED WITH ELECTRONIC BALLASTS SUITABLE FOR LINE VOLTAGE OF CIRCUIT TO WHICH THEY ARE CONNECTED AND SUITABLE FOR NUMBER, SIZE AND TYPE OF LAMP REQUIRED BY THE FIXTURE. BALLAST SHALL BE PERFORMANCE BY GE, GENESIS BY UNIVERSAL, OR EQUAL SOLID STATE ELECTRONIC BALLAST OR EQUAL BY TRIAD OR HUNT ETL TESTED AND UL LISTED.

D. FURNISH AND INSTALL ALL LAMPS IN ALL FIXTURES OF SIZE SHOWN OR AS REQUIRED FOR FIXTURES SPECIFIED. FLUORESCENT LAMPS SHALL BE STANDARD WARM WHITE OF THE LOW ENERGY TYPE. GENERAL PURPOSE INCANDESCENT LAMPS SHALL BE INSIDE FROSTED. PAR, R OR LOW VOLTAGE TYPE AS SHOWN AND REQUIRED BY FIXTURE MANUFACTURER. REPLACE ALL LAMPS AS NECESSARY UNTIL ACCEPTANCE OF BUILDING BY OWNER.

10. MOTOR STARTERS

A. UNLESS OTHERWISE INDICATED, STARTERS FOR 3 PHASE MOTORS SHALL BE 3 POLE ACROSS-THE-LINE MAGNETIC TYPE, RATED IN ACCORDANCE WITH NEMA STANDARDS, FOR SIZE AND HORSEPOWER. EACH STARTER WILL BE SUPPLIED BY HVAC CONTRACTOR. ADDITIONAL CONTROL, PILOT AND INTERLOCK DEVICES SHALL BE AS SHOWN AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. PUSHBUTTONS SHALL BE MOMENTARY CONTACT TYPE. VERIFEY FINAL CONTROLLER VOLTAGES AND AUXILIARY CONTACTS WITH HVAC CONTRACT. INTERCONNECT FANS TO HVAC CONTROL AND TO THE SHUTDOWN SECTION OF THE FIRE ALARM PANEL

11. FIRE SAFING

A. FOR EACH PENETRATION OF FIRE PARTITION, SMOKE PARTITION OR FLOOR, PROVIDE HIGH TEMPERATURE FOAM BY DOW CHEMICAL OR EQUAL ALONG COMPLETE CIRCUMFERENCE OF PIPE OR FOR FULL DEPTH OF PARTITION OR SLAB MAKING FULL CONTACT WITH ALL NEARBY PENETRATED SURFACE.

B. MATERIAL SHALL NOT EXTEND BEYOND FINISHED WALL OR FLOOR SURFACES.

12. BATTERY INVERTER EMERGENCY POWER SYSTEM

A. UNIT SHALL BE SELF CONTAINED, 120 VOLT FULLY AUTOMATIC, SOLID STATE, WITH SEALED LEAD CALCIUM BATTERIES, 2 RATE CHARGER WITH NO MOVING PARTS, SOLID STATE SINE WAVE INVERTER, GUARANTEED TO OPERATE ALL FLUORESCENT AND HID UNITS SUPPLIED WITH INSTANTANEOUS TRANSFER RELAY, SUITABLE FOR MAINTAINING HID LIGHTING "ON" ACCEPTABLE TO CODE. BATTERY CHARGER TO HAVE LOW END CUT-OFF, MONITOR AND ALARM, MOMENTARY TEST SWITCH, RED LED INDICATORS, HEAVY DUTY, FINISHED STEEL HOUSING. BATTERY SHALL BE 48 OR 54 OR 60 VOLT HERMETICALLY SEALED. MAINTENANCE-FREE LEAD CALCIUM, 120 VOLT SUPPLY. UNIT SHALL BE SIZED TO LOAD, LIGHTALARMS #FT120*120XBAPOCB WITH SEALED BATTERIES, OR CHLORIDE OR EQUAL. * - INDICATES SIZE OF THE UNIT WHICH SHALL BE FOR THE RATED LOAD IN KVA TIMES 125%.

13. SMALL PORTIONS OF THE FIRE ALARM SYSTEM EXIST. SHALL BE PROTECTED AND SHALL BE REINCORPORATED INTO A FINAL APPROVED HOMOGENEOUS SYSTEM. AT THE CONTRACTORS OPTION, THE COMPLETE EXISTING SYSTEM MAY BE REMOVED AND REPLACED WITH THE NEW ARRANGEMENT INDICATED. THE SYSTEM SHALL PROVIDE FIRE ALARM PROTECTION ACCORDING TO CODE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES. APPROVAL SHALL INCLUDE PRE-APPROVAL OF DRAWINGS AND FINAL APPROVAL OF THE COMPLETE, INSTALLED SYSTEM. INCLUDE ALL TESTING AND ALL ACCESSORIES REQUIRED TO COMPLETE ALL TESTS TO SATISFY THE LOCAL INSPECTION AUTHORITIES.
THE COMPLETED SYSTEM SHALL:
A. PROVIDE A CLOSED CIRCUIT, DOUBLE SUPERVISED ALARM AND DETECTION CIRCUITRY SYSTEM TO BE U.L. APPROVED.
B. THE ACTUATION OF ANY MANUAL OR AUTOMATIC ALARM SHALL SHUT DOWN THE AIR HANDLING SYSTEMS, SOUND THE ALARM LOCALLY ON ALL HORNS WITH STROBE INDICATION AT EACH, AND TRIGGER AN ALARM IN THE CENTRAL STATION OFFICE, (INCLUDE ALL COORDINATION AND CONNECTION TO TELEPHONE LINES FOR THIS ITEM).
C. ANY SHORT OR GROUNDING OF ANY CONDUCTOR OR THE ACTUATION OF A TAMPER SUPERVISORY SWITCH SHALL PROVIDE A SUPERVISORY ALARM SIGNAL LOCALLY INDICATING THE ZONE ALARMED TO THE PANEL AND A GENERAL SIGNAL ALARM AT THE CENTRAL STATION OFFICE.
D. PROVIDE ALL WIRING WHETHER INDICATED OR NOT, ACCORDING TO THE MANUFACTURER'S REQUIREMENTS. WIRING SHALL BE CONCEALED, AND SHALL BE INSTALLED IN RIGID STEEL CONDUIT. MINIMUM WIRE SIZE SHALL BE NO. 14 AWG FOR THE GENERAL ALARM CIRCUITRY AND NO 18 AWG FOR THE SIGNAL CIRCUITRY.
SUBSTITUTION OF AN ELECTRONIC SYSTEM WITH ATTENDANT REVISION IN WIRING TO TEFLON INSULATED CONCEALED WIRING IS PERMITTED, IF ALL CODE REQUIREMENTS AND FUNCTIONS OF THE SYSTEM ARE FULFILLED.

14. SHOP DRAWINGS

A. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH REQUIREMENTS OF THE GENERAL OR "SPECIAL CONDITIONS" FOR THE FOLLOWING ITEMS:
PANELBOARDS AND CONTACT DEVICES
LIGHTING FIXTURES
MOTOR STARTERS
SAFETY SWITCHES
WIRING DEVICES (SUBMIT SAMPLES WITH PLATES)
SURFACE METAL RACEWAY, INCLUDING SUPPORT SYSTEMS
WIRING DEVICES AND CONNECTORS
EMERGENCY SYSTEM AND THROWOVER
TIME SWITCHES & PHOTOCELLS

B. AN ORDERLY LAYOUT OF THE SWITCHBOARD ROOM WALLS TO INDICATE THE EXISTING AND NEW SERVICE EQUIPMENT TO BE INSTALLED, AND ALL OTHER ITEMS OF IMPORT TO THE LAYOUT..

15. TEST
A. FOLLOWING COMPLETION OF ALL INSTALLATION, TEST THE INDIVIDUAL SYSTEMS OF THE EXISTING AND NEW WORK, AND ELIMINATE GROUNDING OF CONDUCTORS, SHORT CIRCUITS, OTHER FAULTS, ETC. WHERE NECESSARY TEST INSULATION RESISTANCE OF SYSTEMS, BEFORE PLACING INTO OPERATION. DO SO IN PRESENCE OF FILED REPRESENTATIVE UTILIZING SUITABLE EQUIPMENT. PROVIDE OPERATION TEST AFTER COMPLETION OF EACH SYSTEM, SERVICE SWITCH, PANELBOARDS, FEEDER CONDUITS AND CONDUCTORS, WHERE SHOWN, FOR POWER DISTRIBUTION SYSTEM.

16. PROVIDE ALL DISCONNECTIONS AND, WHERE NOT REMOVED DURING DEMOLITION, PROVIDE FOR THE REMOVAL OF ALL EQUIPMENT AND WIRING NOT INCLUDED AS PART OF THE FINAL INSTALLATION.

E. COLOR CODE INSULATION TO MATCH EXISTING, IF NONE EXISTING, USE BLACK, RED, BLUE FOR A, B, C PHASES AND WHITE FOR THE NEUTRAL ON 120/208 VOLT SYSTEMS.

F. PROVIDE FLEXIBLE METAL CLAD CABLE, NATIONAL ELECTRICAL CODE TYPE 'MC', IN DRY CEILINGS AND DRYWALL CONDITIONS, AS A SUBSTITUTE FOR EMT, CONDUIT AND CABLE FOR BRANCHWORK ONLY, TO SIZE #6 AWG, AND, COPPER ONLY IS PERMITTED. GENERALLY THE QUANTITY OF CONDUCTORS SHALL NOT EXCEED THOSE REQUIRED FOR THREE CIRCUITS. IF NOT ON "ALTERNATE" CIRCUITS, DERATING PER CODE SHALL APPLY. CONDUCTORS FOR GROUNDING MAY NOT BE OMITTED, HOWEVER, ISOLATED GROUND REQUIREMENTS WILL ONLY BE MET BY THE INCLUSION OF A GREEN COLORED, FULLY INSULATED CONDUCTOR, (A NON-DERATED CONDUCTOR), WITHIN THE ASSEMBLY.
OUTLET BOXES, PANELS, WIREWAYS ETC. SHALL BE MODIFIED TO SATISFY THE REQUIREMENTS OF METAL CLAD CABLE, AND THEIR CONNECTORS.
THE USE OF MULTIPLE CIRCUIT CONDUITS AND TRANSITION BOXES TO MAXIMIZE THE USE OF THIS CABLE IS NOT PERMITTED.
CONDUCTORS SHALL BE SOLID COPPER, 75 DEGREES C., UL APPROVED TYPE 'MTW, THWN, OR XHHW' UNLESS INDICATED OTHERWISE ON THE DRAWINGS AND AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
UPGRADING OF THE CONDUCTOR INSULATION IS ACCEPTABLE AS LONG AS THE STATED CONDUCTOR SIZES ARE NOT REDUCED. CABLE SHALL HAVE SIZE, GRADE INSULATION, VOLTAGE AND MANUFACTURERS NAME PERMANENTLY MARKED NOT EXCEEDING 24". MINIMUM SIZE SHALL BE NO 12 AWG, UNLESS SPECIFICALLY INDICATED OTHERWISE.
PROVIDE ALL ACCESSORIES RECOMMENDED BY THE MANUFACTURER A ND AS REQUIRED BY CODE TO INCLUDE:
BOX CONNECTORS OF MALLEABLE IRON OR PRESSED STEEL, CAPABLE OF INSURING POSITIVE PATH TO GROUND.
SLIP ON INSULATORS TO INSURE SEPARATION OF CONDUCTORS FROM CUT ARMOR OR SHEATH END.
ARMORED CABLE TYPE 'AC' AND NON-METALLIC SHEATHED CABLE TYPE 'NMC ' WILL NOT BE CONSIDERED FOR USE IN THIS PROJECT.
CONDUCTORS SHALL BE COLOR CODED GENERALLY IN ACCORDANCE WITH THE REQUIREMENTS STATED ABOVE.
PROVIDE ALL SUPPORTS FOR THE APPROVED INSTALLATION OF THIS WIRING SYSTEM, AS A MINIMUM, TO INCLUDE SUPPORT ON 4 FOOT MAXIMUM CENTERS AND WITHIN 1 FOOT OF EACH BOX, OR OTHER CONNECTION, OR AT THE TOP OF A TURNDOWN INTO A WALL. IN NO CASE SHALL THE CABLE BE INSTALLED EXPOSED.
CABLE SHALL BE CAREFULLY CUT, TO ALLOW SUFFICIENT SPACE FOR SPLICE OR CONNECTION CAPABILITY, AND IN NO CASE SHALL CUT OR NICKED WIRE BE ALLOWED TO REMAIN ON THE JOB. INSTALLED LENGTHS SHALL INCLUDE SUFFICIENT SLACK FOR ADDITIONAL ARMOUR, OR FOR ADDITIONAL ARMOR OR SHEATH CUTS TO BE MADE. TOOLS SPECIFICALLY MADE FOR CUTTING THE SHEATH INSTALLED, SHALL BE UTILIZED.
NEITHER CABLE NOR CONDUCTORS SHALL BE BENT AT RADII GREATER THAN THAT PERMITTED BY CODE OR THE MANUFACTURER BEFORE OR DURING THE INSTALLATION, AND IN NO CASE SHALL A BEND TIGHTER THAN SIX TIMES THE RADIUS OF THE CONDUCTOR OR CABLE BE MADE.
CABLE SHALL NOT BE USED TO CONNECT PENDANT LIGHT FIXTURES, EITHER PARALLEL TO SLAB DIRECTLY BETWEEN FIXTURES OR VERTICALLY.

6. OUTLET BOXES

A. OUTLET BOXES FOR USE WITH STEEL CONDUIT SHALL BE STANDARD GALVANIZED STEEL, MINIMUM 1-1/2" DEEP WITH STAMPED KNOCKOUTS. BOXES FOR SWITCHES, RECEPTACLES AND SINGLE WIRING DEVICES SHALL BE NOMINAL 4" SQUARE WITH (1) "GANG" REDUCER. BOXES FOR LIGHTING FIXTURES AND LAMPHOLDERS SHALL BE 4" OCTAGON, WITH 3/8" FIXTURE STUD.

B. ANY SURFACE OR FLUSH OUTLET BOX FOR EXTERIOR WORK OR IN MOIST LOCATION SHALL BE CAST ALUMINUM TYPE WITH STAINLESS STEEL SCREWS EXCEPT, AS REQUIRED FOR LIGHT FIXTURES.

C. BOXES, FLUSH MOUNTED IN WALLS, SHALL HAVE GALVANIZED PLASTER OR EXTENSION RIGHTS, AS REQUIRED, FLUSH WITH FINISHED WALL SURFACE.

D. WHERE MORE THAN ONE DEVICE IS INDICATED AT THE SAME LOCATION PROVIDE MULTI-"GANG" TYPE BOXES TO SUIT THE NUMBER OF DEVICES INDICATED, EXCEPT DIMMERS. DIMMERS DHALL BE INDTALLED IN ACCORANCE WITH THE MANUFACTURER'S REQUIREMENTS AND SUITABLE DERATING APPLIED TO THE INSTALLATION.

E. CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR FOR EACH TYPE OF WIRING DEVICE SHALL BE AS REQUIRED TO MOST SATISFY INLET LOCATION OF EQUIPMENT SERVED, SUPERSEDED BY NOTATIONS OF HEIGHT AND AS INDICATED ON ARCHITECTURAL DRAWINGS AND/OR AS DIRECTED.

7. WIRING DEVICES

A. WIRING DEVICES AND PLATES SHALL CONFORM TO THE FOLLOWING:

1. SWITCHES FOR CONTROL OF LIGHTING FIXTURES SHALL BE WHITE COLORED DEVICE, HUBBELL #1221W, 20 AMP. 120/277 VOLT AC SINGLE POLE, 2 POLE OR 3-WAY AS REQUIRED, MOUNTED 48" AFF. SWITCHES NOTED 30 AMPERES, MAY BE BROWN.
2. CONVENIENCE RECEPTACLES SHALL BE DUPLEX 15 AMP. 125 VOLTS THREE WIRE GROUNDED TYPE WITH PARALLEL LINE SLOTS AND "U" SHAPED GROUND SLOT IVORY DEVICE HUBBELL #5252W, BACK AND SIDE WIRING., WHERE SO NOTED, AND ON 20 AMP. CIRCUITS, (ONE OR TWO PER CIRCUIT), RATING SHALL BE INCREASED TO 20 AMPERES, #5362W. GROUND FAULT INTERRUPTER TYPE SHALL BE PROVIDED FOR THE WEATHERPROOF RECEPTACLES AND THOSE USED NEAR LAVATORIES AND FOR THE TEMPORARY LIGHT AND POWER SYSTEM. EACH GFI RECEPTACLE SHALL BE AN INDIVIDUAL DEVICE WITH INTEGRAL SYSTEM.
3. DIMMERS, WHERE SHOWN, SHALL BE WHITE DEVICE LUTRON DECORA. FOR THREE WAY TYPE, UTILIZE (2) DIMMERS (NOT 1 DIMMER AND 2 SWITCHES) AND WIRE EXACTLY PER ACCOMPANYING DIAGRAMS (SIMILAR TO 3 WAY SWITCH CONTROL), MOUNTED 48" AFF.

B. COVER PLATES FOR FLUSH MOUNTED OUTLET BOXES AND SURFACE MOUNTED BOXES IN FINISHED AREAS SHALL BE STAINLESS STEEL AND SHALL MATCH SWITCH PLATES AND RECEPTACLES. PLATES, ON SURFACE MOUNTED OUTLET BOXES AND IN UTILITY AREAS, SHALL BE GALVANIZED STEEL. FOR EXTERIOR LOCATIONS, LOCKABLE GASKETED STAINLESS STEEL OR CAST ALUMINUM PLATES SHALL BE FURNISHED. ALL RECEPTACLES AND SIGNAL OUTLETS SHALL BE MOUNTED WITH LONG DIMENSION VERTICAL OR AS DIRECTED BY ARCHITECT.

C. ADDITIONAL WIRING DEVICES AS INDICATED ON THE DRAWINGS.

8. SYSTEM GROUNDING

A. ELECTRICAL EQUIPMENT AND WIRING SYSTEMS SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED WITH CONTINUITY OF EQUIPMENT GROUND MAINTAINED THROUGH-OUT THE ENTIRE SYSTEM.

B. PROVIDE SYSTEM GROUND FOR NEW PANELS.

C. PROVIDE 1 #12 ISOLATED GROUND TO NEAREST COLD WATER PIPE FOR ELECTRONIC CIRCUITS AS INDICATED ON PLAN.

SPECIFICATIONS - CONTD.

3. PANELBOARDS AND SWITCHBOARDS

A. PANELBOARDS AND SWITCHBOARDS SHALL BE DEAD FRONT TYPE FURNISHED WITH CABINETS INTERIORS MAIN AND BRANCH CIRCUIT OVER-CURRENT DEVICES, MAIN LUGS AND ALL NECESSARY EQUIPMENT FOR A COMPLETE INSTALLATION. WHERE A NEUTRAL IS REQUIRED PROVIDE FULL SIZE SOLID NEUTRAL BAR OR BUS. ALL DETAIL CHARACTERISTICS SHALL BE AS INDICATED ON THE DRAWINGS.

B. PANELBOARDS AND SWITCHBOARDS SHALL BE ALIGNED, LEVELED AND SECURELY FASTENED TO THE STRUCTURE WITH SUPPORTING MEMBERS AS REQUIRED AND MOUNTED SO THAT OPERATING HANDLES WILL BE WITHIN THE LIMITS OF 18" TO 6' 6" ABOVE FLOOR.

C. CIRCUIT BREAKER TYPE PANELBOARDS SHALL CONTAIN MOLDED CASE, THERMAL-MAGETIC, BOLT-ON, CIRCUIT BREAKERS. MINIMUM INTERRUPTING CAPACITY 10,000 AMPS, RMS SYMMETRICAL, UNLESS OTHERWISE NOTED.

D. SWITCHBOARDS SHALL BE DEAD FRONT TYPE BUILT TO NEMA STANDARDS AND BEARING UL LABEL. BUS SHALL BE COPPER OR PLATED ALUMINUM, BRACED FOR 75,000 AMPERES, AND SHALL INCLUDE A GROUND BUS WITH DISCONNECTIBLE LINK(S) TO THE NEUTRAL. SWITCHES SHALL BE 3 POLE, OF THE QMQB TYPE BY GE OR EQUAL, TO 800 AMPERES AND SHALL BE OF THE BOLTED PRESSURE TYPE BY PRINGLE SWITCH CO. OR EQUAL, FOR HIGHER RATINGS. PRE APPROVED CURRENT TRANSFORMERS AND METER BACKBOXES SHALL BE UTILIZED AND SUCH EQUIPMENT SHALLBE SUBMITTED FOR APPROVAL TO NEW YORK STATE ELECTRIC & GAS CO. CLADDING SHALL BE STEEL OR ALUMINUM OR BOTH, BUT SHALL COMPLETELY ENCLOSE THE SWITCHES AND BUS. SWITCHGEAR SHALL BE FRONT ACCESS TYPE ONLY. ALLOW FOR THE 3000 AMPERE INCOMING CUBICLE TO TERMINATE THE SERVICE.

E. PANEL TRIMS SHALL BE CODE GAUGE STEEL WITH DOOR HINGES AND FLUSH TYPE COMBINATION LOCK AND CATCH OR MULTIPLE POINT CATCH AND VAULT TYPE HANDLE FOR DOORS OVER 47" HIGH. EACH LOCK SHALL BE PROVIDED WITH 2 KEYS AND ALL PANELS SHALL BE KEYED ALIKE.

F. PROVIDE DIRECTORY HOLDER, DIRECTORY WITH CLEAR PLASTIC OR GLASS COVER ON INSIDE OF DOOR. DIRECTORIES SHALL BE TYPE WRITTE AND SHALL INDICATE PANEL DESIGNATION, CIRCUIT NUMBERS AND DESCRIPTION OF BRANCH CIRCUITS SERVED INCLUDING SPARES, WHERE OVER-CURRENT DEVICE IS INSTALLED BUT NOT CONNECTED.

G. PROVIDE INSCRIBED MULTI-LAYER PLASTIC NAMEPLATES FOR ALL NEW PANELS, MOTORS AND REMOTE CONTROLS.

H. PROVIDE DISTRIBUTION PANELBOARDS OF THE QMQB, PANELBOARD AND/OR SWITCHBOARD TYPE, DEAD FRONT, WITH FUSES OF THE DUAL ELEMENT TYPE, COORDINATED TO PROTECT DOWNSTREAM CIRCUIT BREAKERS AND HVAC EQUIPMENT.

I. PANELBOARDS AND SWITCHBOARDS SHALL BE BY GENERAL ELECTRIC, SQUARE D, SIEMENS, OR WESTINGHOUSE, AND FUSES BY LITTLE FUSE, BUSSNAN, OR CHASE SHAWMUT.

4. CONDUIT SYSTEMS

A. CONDUIT FOR FEEDER, CONDUCTORS AND BRANCH CIRCUIT WIRING SHALL BE GALVANIZED STANDARD WEIGHT RIGID STEEL CONDUIT, MINIMUM 3/4" DIAMETER, UNLESS OTHERWISE INDICATED. SUPPORT CONDUIT ON NOT LESS THAN 87 (IN) CENTERS BY TRAPEZE OR SPLIT RING MALLEABLE IRON SUPPORTS AND ROUND HANGERS. CONDUIT SHALL FOLLOW THE CONTOURS OF THE BUILDING, WITH THE USE OF CONDULET FITTINGS, WHERE EXPOSED.

B. CONDUIT FOR OUTDOOR AND BURIED SERVICE, FEEDER AND BRANCH WIRING, AND IN HVAC PLENUMS, AND AS INDICATED ON DRAWINGS SHALL BE GALVANIZED STEEL UNLESS INSTALLED 24" BELOW GRADE OR BELOW FLOOR FINISH OF SLAB ON GRADE WHERE PVC CONDUIT, SCHEDULE 40, MAY BE USED AND AS OTHERWISE NOTED. ELBOWS AND STUBS FOR THE PVC CONDUIT SHALL BE GALVANIZED STEEL. PROVIDE GROUND CONDUCTORS PER CODE, (NOT SHOWN), FOR PVC CONDUIT.

C. I.M.C. AND E.M.T. GALVANIZED TYPES MAY BE UTILIZED IN LIEU OF RIGID CONDUIT WHERE PERMITTED BY CODE, BUT NOT IN GRADE OR SLAB.

D. RACEWAY SHALL BE RUN CONCEALED IN EXISTING AND NEW CEILINGS AND IN EXISTING AND NEW SHEETROCK WALLS, AND IN ALL OTHER FINISHED AREAS. IN OTHER AREAS, RACEWAY SHALL BE RUN EXPOSED, BUT SHALL BE HIDDEN FROM NORMAL VIEW, WHEREVER POSSIBLE, BY MOUNTING ABOVE BUILDING ELEMENTS.

E. FINAL CONNECTIONS TO MOTORS, AND RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE METALLIC CONDUIT. FLEXIBLE CONDUIT FOR MOTOR CONNECTIONS, IN WET LOCATIONS SHALL BE LIQUID-TIGHT. NEC TYPE "MC" CABLE AND FLEXIBLE CONDUIT MAY BE USED FOR BRANCH CIRCUIT WIRING WITHIN SHEETROCK WALLS AND CEILING, CODE PERMITTING.

F. ALL RACEWAY FITTINGS, CONNECTORS AND INSTALLATION SHALL BE EQUAL TO AND COORDINATED WITH SPECIFIED RACEWAYS.

5. WIRING AND CABLE

A. CONDUCTORS SHALL BE COPPER WITH 600 VOLT INSULATION, MINIMUM #12 AWG FOR LIGHTING AND POWER SYSTEMS, STRANDED ABOVE #10 AWG.

B. INSULATION FOR INTERIOR LIGHTING AND POWER SHALL BE TYPE THW FOR #8 AWG AND LARGER. BRANCH CIRCUIT WIRING #12 OR #10 AWG MAY BE TYPE TW. TYPE "THWN" OR "XHHW" MAY BE SUBSTITUTED FOR ANY TYPE AND "THHN" IN DRY LOCATIONS ONLY. UTILIZE TYPE "SF2" OR SFF2" FOR FINAL CONNECTIONS TO RECESSED FIXTURES AND TO HEATERS.

C. CONTROL WIRING SHALL BE #14 AWG, TYPE TW, THW, THHN OR THWN FOR 120 VOLTS FUSED ACCORDINGLY OR #12 AWG. LOW VOLTAGE TWISTED, JACKETED MAY BE USED AS APPLICABLE. INSTALL BEFORE PAINTING, RUN IN WALLS WHEREVER POSSIBLE, SUPPORT ON 2 FT. CENTERS. IF INSTALLED WITHOUT CONDUIT IN PLENUM CEILINGS, CONTROL CABLE SHALL BE PLENUM RATED, PER CODE.

D. WIRE FOR SPECIAL SYSTEMS SHALL BE AS DELINEATED UNDER RESPECTIVE SPECIFICATIONS SECTION. ANY WIRING WITHIN AIR PLENUM CEILINGS SHALL BE TEFLON INSULATED AND JACKETED, OR WITHIN CONDUIT, PER CODE.

ELECTRICAL SPECIFICATION

1. DESCRIPTION OF WORK

A. THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, AND CONTRACTOR SERVICES TO PROVIDE A COMPLETE, SAFE, WORKING ELECTRICAL INSTALLATION, GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE. SEE BID DOCUMENTS, AND ARCHITECTURAL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS. THE WORK SHALL BE FULLY IN ACCORD WITH THE NATIONAL ELECTRIC CODE, LATEST EDITION, THE NEW YORK STATE BUILDING CODE LOCAL FIRE INSPECTION AUTHORITIES AND ALL AUTHORITIES HAVING JURISDICTION. THE WORK SHALL BE INSTALLED GENERALLY AT LOCATIONS, AND WITHIN DIMENSIONS WHERE INDICATED, ON THE ARCHITECTURAL AND ELECTRICAL DRAWINGS, OTHERWISE, THE WORK SHOWN IS DIAGRAMMATIC. WHERE LISTED, ALL TYPES OF EQUIPMENT SHALL BE UNDERWRITERS LABORATORY APPROVED OR LISTED. THE WORK SHALL GENERALLY INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
1. ALL APPROVALS.
2. NEW ELECTRIC SERVICE, FEEDER SWITCHES AND FUSES FOR AIR CONDITIONING INCLUDING MOTOR CONTROLLER CONNECTIONS AND MOUNTING. INCORPORATION OF THE EXISTING WORK AND PROTECTION OF THE SALVAGED SYSTEM INTO THE COMPLETE FINAL ARRANGEMENT.
3. PROVIDING NEW PANELBOARDS, FEEDER CONDUITS AND CONDUCTORS, FOR POWER DISTRIBUTION SYSTEM.
4. TEMPORARY LIGHT AND POWER, EXCLUDING ALL PAYMENTS FOR POWER UTILIZATION, AND INCLUDING ALL OTHER CHARGES.
5. BRANCH CIRCUIT RACEWAY AND CONDUCTORS, LIGHTING FIXTURES, LAMPS, FLOOR BOXES, WIRING DEVICES AND ASSOCIATED EQUIPMENT FOR GENERAL LIGHTING AND POWER SYSTEM.
7. SUPPORTS FOR ALL ELECTRICAL WORK.
8. EQUIPMENT AND CIRCUIT ASSIGNMENTS.
9. PROVISIONS FOR TENANT POWER SUPPLIES AND TELEPHONE IN THE NEW SWITCHBOARD AREA, AND THROUGHOUT THE BUILDING AS SHOWN.
10. CERTAIN OTHER POWER AND TELEPHONE CONDUIT PROVISIONS, AS SHOWN.
11. FIRE ALARM SYSTEM FOR MANUAL STATIONS, ~~STRINKLERS~~, AND POP-UP VENTILATORS AS SHOWN, AND INCORPORATION OF EXISTING SYSTEM INTO THE NEW AS APPLICABLE.
12. PROVIDING COMPLETE SECONDARY SERVICE FROM NEW SERVICE LOCATION OR TRANSFORMER(S). PROVIDING OF ~~TRANSFORMER PAD~~ AND PRIMARY DUCTS TO THE UTILITY POLE AS REQUESTED BY THE UTILITY COMPANY. (E 914-6837)

2. ELECTRICAL SERVICE

A. FURNISH AND INSTALL ALL ITEMS OF WORK AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH OWNER'S REQUIREMENTS TO PROVIDE A NEW ELECTRICAL SERVICE AS SHOWN.

B. CHARACTERISTICS; 120/208 V. 3 PHASE, 4 WIRE, 60 HERZ.

C. PROVIDE COMPLETE COORDINATION, ATTEND AND/OR CALL MEETINGS ETC. AND OBTAIN ALL REQUIRED APPROVALS AND MAKE ALL SUBMISSIONS.

D. ALL THIS WORK SHALL BE DONE AS EXPEDITIOUSLY AS POSSIBLE INCLUDE ALL COST FOR TEMPORARY TIES AND WIRING, TO ALLOW WORK ACCORDING TO PROJECTED DATE, AND TO MAINTAIN EXISTING AND TEMPORARY FACILITIES FOR THIS PROJECT.

E. PRIMARY DUCT SHALL BE RIGID GALVANIZED STEEL UNDER ROADWAY OR 3" CONCRETE ENCASED, SHEDULE 40 PLASTIC DUCT, OTHERWISE, SCHEDULE 40 PVC WITH 36" BACKFILL COVER. COVER TO 6" ABOVE DUCTS SHALL BE CLEAN SAND, TAMPED IN PLACE. BACKFILL SHALL NOT INCLUDE ROCKS LARGER THAN 3", AND SHALL BE BROUGHT TO EQUAL OR HIGHER COMPACTION THAN VIRGIN SOIL IN THE AREA. PROVIDE A CONTINUOUS PLASTIC "HIGH VOLTAGE" WARNING TAPE 18" ABOVE TOP OF PVC DUCTS.

F. PRECAST CONCRETE TRANSFORMER BASE SHALL BE MANUFACTURED TO NEW YORK STATE ELECTRIC AND GAS CO. SPECIFICATIONS FOR THE SIZE OF TRANSFORMER INDICATED.

NOTES:

1. WORK SHALL BE PERFORMED WHILE OPERATIONS ARE MAINTAINED AT THE FACILITY. WORK WILL BE PHASED TO PERMIT THIS PROCEDURE. IN ADDITION SERVICE WORK (AS A MINIMUM) WILL BE PERFORMED DURING HOURS WHEN LIBRARY IS CLOSED. ALLOW FOR PREMIUM TIME AND UTILITY CO. CHARGES IN BID.
2. IN ACCORDANCE WITH NOTE 1, DISCONNECT FOR DEMOLITION OR REMOVE ALL ELECTRICAL WORK NOT A PART OF THE NEW PLAN. IN ADDITION MAKE RELOCATIONS AND RECONNECTIONS TO SUIT. CLOSE ALL UNUSED OPENINGS IN EXISTING PANELS, BOXES, ETC. RETAIN SAFE, ALL REUTILIZED EQUIPMENT INCLUDING: CITY FIRE ALARM, EXISTING REFRIGERATION & BOILER WIRING; EXISTING SERVICES (THROUGH OR UNDER NEW FOUNDATIONS) EXISTING PANELS & CIRCUITS TO REMAIN.
3. RETAIN EXISTING FIRE ALARM, LIGHTING & MISCELLANEOUS CIRCUITRY TO KEEP EXISTING FACILITY OPERATIONAL, INCLUDE SPECIAL EMERGENCY & TEMPORARY CONNECTIONS AS REQUIRED. REMOVE EXISTING & TEMPORARY WORK UPON ACTIVATION OF FINAL FIRE ALARM & ASSOCIATED EQUIPMENT. COORDINATE WITH LOCAL OFFICIALS
4. PROVIDE A COMPLETE, NEW FIRE ALARM, SMOKE DETECTION, FAN SHUTDOWN SYSTEM TO MEET CODE AND ALL LOCAL REQUIREMENTS

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DATES NYSED FOR BID 1/2/89 2/21/89	CLIENT ADDITION & ALTERATION TO THE PEARL RIVER PUBLIC LIBRARY 80 FRANKLIN AVENUE / PEARL RIVER, NY		DRAWING ELECT 5
REVISIONS	TITLE SPECIFICATION & NOTES		
NYSED 50-03-08-03-6-005-001	Michael Esmay Architecture • Planning • Interior Design 17 Van Houten Street Upper Nyack, N.Y. 10960 (914) 358-0933		JOB NO. 8601

fully meet the requirements of the local authorities. Obtain all written permits and approvals 30 days prior to turn-over of store for fixturing. Results from the failure to fulfill the foregoing shall be corrected by the Contractor in a manner which will not delay final date of turnover of the facilities.

(f) Provide all required manpower, testing equipment, corrections of equipment and wiring to obtain timely final approval of the system.

(g) Manufacturer or his local representative after warranty period upon user's request shall be capable to supply central station monitoring and inspections. (monthly or bi-monthly). In addition, he shall be capable of appearing within 24 hours for system adjustment. and of complete repair within 72 hours.

(h) Coordinate all items involving other trades and vendors and all ties to other interior and exterior systems and pretest all such interfacing connections before final tests with authorities. Inform owner as soon as possible for the negotiation of the central station office contract, and verify it's accomplishment before final testing.

(i) Include relocation and reconnection of the City Fire Alarm box and all work necessary to fulfill local requirements including automatic activation of the unit as required.

normally-open (N/O) dry contact alarm initiating devices, and without using a separate source of power for the two-wire smoke detectors.The module shall be completely pluggable for ease of servicing with a 35 Ohm maximum line resistance for each alarm receiving circuit.

3. Signal Circuit Module 4520-701. Each signal circuit module shall be capable of supplying four (4) signal circuits of 1 1/2 amperes at 24VDC each. It shall supply power via two-wire supervised parallel-wired circuits and indicate open or shorted circuits or ground faults on module front by illuminating an individual circuit trouble LED and providing output to system trouble circuit. The signal circuits shall be protected by individual circuit breakers on module. One (1) signal circuit shall be provided for each floor or level to permit the addition of future alarm bells.

4. Supervisory Module 4520-319. Each supervisory module shall provide two (2) circuits of supervision of normally closed (N/C) dry contact or an open in the circuit wiring shall sound the module's built-in sonalert and light the circuit's LED indicator. Each circuit shall have its own supervisory signal switch.

5. Battery Pack 4520-608. Fire Alarm System shall have battery power back-up capability, in the event of a failure of normal operating power. Batteries shall be control panel mounted (without sacrificing any module installation space) of the sealed rechargeable type, and capable of operating the alarm system in normal standby mode for twenty-four (24) hours after normal power failure, and also capable of operating the system in normal alarm mode for five (5) minutes at the end of the twenty-four (24) hour standby period.

6. Visual Alarm. Provide supervised, wiring and cadance flashing circuits to activate supervised xenon flashers in all horns. Allow 20 devices per circuit and a minimum of (1) circuit per floor or Building. Cadance timer shall be locked-in by alarm. Include 5 min. maximum, manual timer test switch which returns automatically to non-test, active mode.

7. Provide all work to incorporate automatic city box activation upon alarm of the interior system.

(c) MANUAL STATIONS

1. Shall be ADT type 5050-001. Fire Alarm Stations shall be dual action (push plate, pull alarm lever) type, with general alarm contacts. When operated, the alarm lever shall remain at right angles to indicate its action, with alarm contacts closed until the station is reset. The station shall be reset by opening the front and re-setting the

   lever. It shall be possible to open the station by special key. The station shall be tested by opening the station and then returning same to normal. It shall be necessary to open the station to replace the break rod. A spare break rod shall be furnished with each station.

(d) SMOKE DETECTORS

1. Shall be ADT type 3521-200/017 photoelectric, 24VDC, two-wire type, and shall be calibrated and adjusted for sensitivity at the manufacturer's factory to U.L. standards. Each detector shall include an on/alarm LED indicator, test switch, and a built-in 135 degree F. heat sensor. Detector shall comply with U.L. standard 268.

(e) HEAT DETECTORS

1. Shall be ADT type 4220-135, combination rate of rise and 135 degrees F. fixed temperature, or ADT type 4222-197, 197 degrees F. fixed temperature, as shown on the plans. All detectors shall have white finish, low profile (1 3/8"), twist lock mount, and a dangling disc to indicate actuation of the fixed temperature element.

(f) ALARM HORN-STROBES

1. Shall be ADT high decibel type, 24VDC, vibrating bell, semi-flush wall mounted, white in color, or ceiling, flush mounted, with factory painted finish to match each ceiling color in which installed.

PART 3 - EXECUTION

(a) All wiring shall be the type recommended by the manufacturer, and approved by the Fire Department, and shall be installed in rigid steel conduit throughout. Minimum wiring shall be at least #14 AWG, for initiation, #12 AWG for alarm.

(b) System shall be installed in a workmanlike manner in accordance with approved manufacturer's wiring diagrams. The contractor shall furnish all conduit, wiring outlet boxes, junction boxes, cabinets and similar devices necessary for the complete installation.

(c) Field Quality Control: The system shall be installed and fully tested under the supervision of a trained manufacturer's representative. The system shall be demonstrated to perform all of the functions as specified.

(d) Contractor or his representative shall obtain preliminary approval of the proposed system before submission of shop drawings. It will be assumed that any submission will

PRODUCTS

(a) OPERATION AND EQUIPMENT:

1. Minimum Circuiting/zoning Requirements:

   Each of the following types of fire alarm devices shall be circuited as shown on the drawings, but shall be at least as follows:

   Manual Fire Alarm Stations: Provide one alarm initiating zone for all manual stations.

   Area Smoke Detectors: Provide one (1) alarm initiating circuit for each group of detectors in a building or floor. This shall include as a minimum, the Main Library, the Office Area, the Community Room, storage areas, Mechanical Room, and a zone each for each of the Mechanical air handlers, and Boiler-Electrical areas.

   Alarm horns: one (1) bell circuit for every five (20) alarm devices.

2. Fire Alarm System Sequence of Operation:

   Operation of any manual fire alarm station or activation of any automatic alarm initiating device, area smoke detector, smoke hatch, shall automatically:

   Sound alarm initiating devices on all general alarm horns and flash all strobes.

   Visually annunciate the circuit of alarm initiation at the fire alarm control panel.

   Where the initiating signal emanates from a smoke hatch detector at the respective hatch shall be released.

   Activation of the supervisory trouble system shall:

   Provide a continuous signal at the main control panel. The audible signal shall be capable of being silenced during the off-normal condition. A visual indicator shall also indicate the alarm.

   Visually annunciate the monitor circuit which has been actuated at the fire alarm control panel. The visual indication shall remain on until the off-normal condition is restored.

(b) The equipment furnished under this specification shall be the standard product of one manufacturer, and shall be equal to that manufactured by American District Telegraph Co., (ADT), Catalog and model numbers are intended to indicate type and quality of design and material, as well as operating features required. If equipment of another manufacturer is submitted for approval, the contractor shall state what, if any, specific points of system operation differ from the specified system's operation. Lacking such a statement, it becomes encumbent upon the contractor to exactly match the operation and quality of the specified system. Final determination of system acceptance shall rest with the Architect who, at his discretion, may require proof of performance. Acceptable alternate manufacturers shall be the Gamewell Corp., Simplex and Pyrotronics Inc.

(c) The fire alarm system shall be 24 V DC, zoned, general alarm signalling type.

EQUIPMENT

(a) Furnish and install where shown on drawings ADT type 4520 series Fire Alarm Control Panel. The control cabinet shall be constructed of code grade steel, with red finish. It shall be covered with a lockable door/window assembly, providing freedom from tempering and allowing full viewing of the various module lights and switches. The cabinet shall include field wiring terminal strips for all contractor external wiring. The control panel shall contain all necessary circuit board combinations, data cables, power supply, battery charger, relays and terminal connections to provide complete control, testing and indicating facilities for the entire system. Modules shall incorporate state or the art solid state circuitry. The control panel shall contain, but not necessarily be limited to, the following modules:

1. Common Control Unit Module B4520-138 shall be provided to act as a central processing and indicating location for the fire alarm system. It shall provide system reset, alarm lock-in, subsequent alarm resound. It shall also provide system alarm LED, system trouble LED, AC power LED and alarm silenced (acknowledged) LED indicators with lamp (LED) test switch,system reset switch, trouble silence switch, alarm silence (acknowledge) switch and a trouble sonalert.

2. The Alarm Receiving Circuit Zone Module(s) 4520-330 shall provide for five (5) electrically supervised, normally open circuits, monitoring for alarm (shorts), trouble (opens), and ground faults. A ground fault shall be indicated by trouble LED for that individual circuit. The module shall provide alarm LED's, LED test (from common control unit), alarm outputs, and alarm resound with flasher acknowledge (from common control unit). It shall allow the mixing of two-wire smoke detectors with

EQUIPMENT STANDARDS

(a) Codes and Standards:

1. New York State Building Code
2. Standards and Rules of the local Fire Inspection Authority.
3. All applicable portions of the Electrical and Administration Code of the locality shall be implicitly followed, in particular with regard to material type and quality, circuitry from and connections to, outlet and junction boxes, panelboards and similar appurtenances.
4. All other local codes and authorities having jurisdiction.
5. National Electrical Code (NFPA #72)
6. All equipment shall be UL listed for its intended use.
7. The equipment furnished under this specification shall be the standard product of one manufacturer, who has been engaged in the production of fire alarm equipment for at least ten (10) years and has a fully equipped, factory trained, service organization within fifty (50) miles of the installation.

APPROVALS AND SUBMISSIONS

(a) Shop Drawings: Layout showing size, type and location of equipment, complete with point wiring diagrams, method of installation and zoning.

(b) Product Data: Manufacturer's printed data, catalog cuts, recommended installation procedure.

(c) Samples of various items when requested.

(d) Test Reports: Reports of field testing.

(e) Operation and maintenance data.

(f) The contractor shall compile and provide to the Owner, five (5) complete manuals on the complete fire alarm, and signal system components with wiring diagrams. The manuals shall include operation and maintenance instructions, as well as a manufacturer's suggested spare parts list.

(g) Permits necessary for installation of the work prior to the commencement of work. All permit costs and inspection fees shall be included as part of the required work.

(h) Submit letter of approval for installation before requesting acceptance of system.

DELIVERY

(a) Deliver equipment protected and undamaged. Store in locations and in a manner to protect equipment from damage.

WARRANTY

(a) The contractor shall guarantee all wiring to be free from inherent mechanical and electrical defects for on (1) year. The manufacturer shall furnish one year maintenance contract, free of charge to the owner, effective from the date of installation, for maintenance and inspection of the manufacturer's equipment. There shall be a minimum of two (2) inspections during the contract year. The manufacturer shall make available to the owner a local service department, which shall stock standard parts. On the premises, maintenance is to be performed during normal working hours, at no cost to the owner, for a period of twelve (12) months from the date of acceptance of a fully approved system unless damage is caused by misuse, abuse or accident.

(b) Provide and schedule with the owner the services of the manufacturer's trained representative to instruct the owner's designated personnel in the operation and maintenance of the entire system.

SPECIFICATIONS CONTINUED

17 - FIRE SAFETY SYSTEMS

GENERAL REQUIREMENTS

(a) This Section is coordinate with, and complementary to, the General Conditions and Supplementary General conditions, of the work, wherever applicable to Mechanical and Electrical work.

(b) Section 15 - Special Conditions for Mechanical and Electrical Work, shall apply.

(c) Section 16010 - General Provisions for Electrical Work, shall apply.

QUALITY ASSURANCE

(a) Manufacturers: Only firms regularly engaged in the manufacture of this, or these, products, of the type(s), sizes capacities, etc., for at least 5 years, will be considered asacceptable.

(b) The material and equipment shall meet the requirements of the applicable manufacturing standards set forth in Section 16010, and shall be so listed and labeled wherever standards for specified items exist, Eg: Underwriters Laboratories (UL).

(c) Comply with the National Electric Code, (applicable edition), and the New York State Building Code.

SCOPE OF WORK

(a) Furnish and install all equipment and materials necessary for a complete manual and partial automatic smoke and fire detection system, and alarm systems as required by these specifications. The system as described herein shall be wired, connected, tested and left in first-class operating condition. It shall be provided with wiring and all operations as herein described and as shown on drawings.

(b) The system shall include, but not necessarily be limited to, the following components:

1. Fire Alarm Control Panel
2. Manual Fire Alarm Stations.
3. Smoke Detectors: Area Type
4. Zoned Annunciated Alarm
5. Ceiling and Wall Alarm Horn - Strobes
6. Battery Back-up of all Operations
7. Fan shut-down relays

(c) The contractor shall coordinate work in this section of the specifications with all related trades.

(d) Permits necessary for installation of the work shall be obtained prior to the commencement of work. All permit costs and inspection fees shall be included as part of the required work.

RELATED WORK INCLUDED

(a) Prior to commencement and after completion of work, notify authorities having jurisdiction.

(b) Perform all required tests to satisfy governing requirements. Submit letter of approval for installation before requesting acceptance of system by owner. Note, Guarantee period for this item shall begin upon acceptance as stated above.

(c) Responsibility for furnishing the quantities of copies as directed for shop drawing and if necessary local approvals, shall be included as part of the electrical work. All fees and costs for inspection shall be included in the contract cost.

(d) Coordinate smoke hatch detector, if any, and provide duct type and surface and flush ceiling detectors, to fulfill supervision requirements of the Code. For built-in detectors, provide necessary relays to cause alarm of system upon detection of smoke.

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DATES FOR BID 2/21/89

REVISIONS

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TITLE
SPECIFICATIONS CONTINUED

DRAWING
E.ELECT
6

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JOB NO. 8601

HEATING, VENTILATING AND AIR CONDITIONING SPECIFICATION

FURNISH AND INSTALL, WHERE SHOWN, INCREASED CAPACITY TO THE EXISTING HEATING PLANT BOILER, NEW CIRCULATING WATER PUMPS AND PIPING TOGETHER WITH NEW FINNED TUBE RADIATION, CABINET HEATER AND DISTRIBUTION PIPING. THE EXISTING RADIATION AND PIPING SHALL BE REMOVED AND REARRANGED AS SHOWN.

FURNISH AND INSTALL, WHERE SHOWN, A NEW WATER COOLED,WATER CHILLER IN PARALLEL WITH THE EXISTING CHILLER TO REMAIN, A NEW COOLING TOWER TO REPLACE THE EXISTING WHICH IS TO BE REMOVED AND NEW CONDENSER WATER PUMPS AND PIPING TO REPLACE THE EXISTING TO BE REMOVED.

FURNISH AND INSTALL,WHERE SHOWN, TWO (2) NEW MULTI-ZONE AIR HANDLING UNITS WITH HOT AND CHILLED WATER COILS, DAMPERS AND OPERATORS, AIR FILTERS, ADJUSTBELT DRIVES, MOTORS, ETC. TOGETHER WITH GENERAL AND TOILET EXHAUST AND TRANSFER FANS. THE EXISTING MULTI-ZONE AIR HANDLING UNIT SHALL REMAIN IN USE WITH NEW DISTRIBUTION DUCTWORK.

HVAC EQUIPMENT SHALL BE OF SIZE, TYPE AND MANUFACTURE AS SHOWN ON THE DRAWINGS OR AS APPROVED. ALL MOTOR STARTERS, CONTROLLERS AND OTHER CONTROL DEVICES SHALL BE FURNISHED BY THIS CONTRACTOR TO THE ELECTRICAL CONTRACTOR FOR HIS INSTALLATION AND WIRING.

FURNISH LABOR, TOOLS, MATERIALS AND EQUIPMENT TO COMPLETELY INSTALL PIPING AS REQUIRED AND AS SHOWN. PIPE LOCATIONS ARE APPROXIMATE AND SCHEMATIC ONLY. ACTUAL LOCATIONS SHALL BE ESTABLISHED BY THE CONTRACTOR TO MATCH EXISTING CONDITIONS IN THE FIELD AT NO EXTRA COST TO THE OWNER. THESE SHALL PROVIDE ADEQUATE HEADROOM, HARMONIZE WITH OTHER WORK, CLEAR DOOR SWINGS AND PERMIT EASY ACCESS TO AND REMOVAL OF VALVES AND EQUIPMENT. PIPING SHALL RUN AS HIGH AS POSSIBLE, UNLESS OTHERWISE INDICATED, PARALLEL OR PERPENDICULAR TO WALLS AND COLUMN LINES AND BE ADEQUATELY SUPPORTED USING CLEVIS TYPE HANGERS WITH INSULATION SHIELDS WHERE NECESSARY TO PERMIT FREE EXPANSION AND CONTRACTION AND PROPER GRADING. PIPES RUNNING ABOVE ROOFS SHALL BE SUPPORTED FROM ADJUSTABLE PIPE STANDS SET IN PITCH POCKETS OR AS APPROVED. PIPES PASSING THROUGH FLOORS OR WALLS SHALL BE INSTALLED IN BLACK STEEL SLEEVES WITH ESCUTCHEONS. SLEEVES SHALL BE LARGE ENOUGH TO PERMIT CONTINUATION OF PIPE INSULATION AND BE WEATHERPROOF WHERE REQUIRED. PIPING SHALL CONFORM TO APPLICABLE REQUIREMENTS OF CURRENT PRESSURE PIPING STANDARDS AND SAFETY CODES. PIPE AND FITTINGS FOR VARIOUS SERVICES SHALL BE AS FOLLOWS:

SERVICE	PIPE	FITTINGS
WATER		
2" AND LESS	TYPE"L"HARD COPPER	WROUGHT COPPER
2½"AND OVER	BLACK STEEL	STEEL WELDING
DRAIN,VENT&OVERFLOW		
ALL SIZES	TYPE"L" COPPER OR GALVANIZED STEEL	WROUGHT COPPER GALV. CAST IRON DRAINAGE AS REQ'D.
GAS		
ALL SIZES	BLACK STEEL	CAST IRON, SCREWED

VALVES SHALL BE GATE TYPE UNLESS OTHERWISE NOTED. SCREWED PIPE AND FITTINGS SHALL HAVE THREADS CUT CLEAN AND TRUE. PIPE ENDS ARE TO BE PROPERLY REAMED AND JOINTS SHALL BE MADE UP USING AN APPROVED JOINT COMPOUND APPLIED TO MALE THREADS ONLY. ALL JOINTS SHALL BE TIGHTENED SO THAT NO MORE THAN TWO PIPE THREADS REMAIN EXPOSED. BUSHINGS AND/OR CLOSE NIPPLES WILL NOT BE ACCEPTED. CHANGES IN HORIZONTAL PIPE SIZE SHALL BE WITH ECCENTRIC FITTINGS. PIPE AND FITTINGS SHALL BE THOROUGHLY CLEANED INTERNALLY PRIOR TO MAKING UP. SYSTEMS SHALL BE CLEANED AGAIN AFTER INSTALLATION BY OPERATING AND FLUSHING TO DRAIN UNTIL SYSTEM RUNS CLEAN FREE FROM DIRT, OIL, ETC. PROVIDE TEMPORARY STRAINERS. PRESSURE TEST AT 150% OPERATING PRESSURE FOR A PERIOD OF TWO (2) HOURS.

PNEUMATIC CONTROL SYSTEM

FURNISH AND INSTALL A THERMOSTATIC CONTROL SYSTEM OF THE PNEUMATIC TYPE AS MANUFACTURED BY HONEYWELL OR AS APPROVED. A SCHEMATIC DIAGRAM OF THE SYSTEM SHALL BE SUBMITTED BY THE MANUFACTURER SHOWING RELAYS, CONTROL VALVES, THERMOSTATS, WIRING AND OTHER ITEMS NOT SPECIFIED HEREIN OR SHOWN ON THE DRAWINGS BUT NECESSARY TO PERFORM THE FUNCTIONS SPECIFIED HEREINAFTER. THE AUTOMATIC EQUIPMENT SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE MANUFACTURER'S REPRESENTATIVE. **CONTROL VALVE BODIES AND LOUVRE DAMPERS SHALL BE FURNISHED BY THE MANUFACTURER TO THE INSTALLING CONTRACTOR. INSTRUMENTS SHALL BE FURNISHED INSTALLED BY** THE MANUFACTURER IN APPROVED ACCESSIBLE LOCATIONS NEAR ITEMS CONTROLLED. WHERE FEASIBLE, INSTRUMENTS AND DEVICES SHALL BE GROUPED TOGETHER ON AN INSTRUMENT PANEL MADE OF STEEL OR ALUMINUM, 10 GAUGE MINIMUM OR 5/8" CHIPBOARD LAMINATED WITH FORMICA ON BOTH SIDES AND EDGES. PANELS SHALL BE FULLY ENCLOSED WITH HINGED FRONT DOOR WITH GAUGES AND SWITCHABLE INSTRUMENTS MOUNTED FLUSH THEREIN. ENGRAVED NAMEPLATES OF WHITE CORE BLACK LAMICOID SHALL BE PROVIDED FOR EACH PANEL MOUNTED DEVICE OR GAUGE. PROVIDE GAUGES READING CRITICAL CONTROL PRESSURES AND REMOTE READING THERMOMETERS SENSING TEMPERATURES OF OUTSIDE/RETURN, MIXED AND DISCHARGE AIR AND CHILLED AND CONDENSER WATER SUPPLY AND RETURN. THE EXISTING CONTROL AIR COMPRESSOR SHALL BE CHECKED AND INSPECTED AND EITHER REFURBISHED OR REPLACED SO AS TO BE AS NEW AND THEN SUPPLEMENTED WITH A SECOND COMPRESSOR WITH CAPACITY TO SUPPLY THE MAXIMUM CFM REQUIREMENT OPERATING NO MORE THAN 1/3 OF THE TIME AND EQUIPPED WITH AN ASME TANK SIZED TO LIMIT STARTS TO 10 PER HOUR. COMPRESSORS SHALL BE INSTALLED COMPLETE READY FOR OPERATION WITH FACTORY OR FIELD WIRING BY THE MANUFACTURER. UNITS SHALL BE COMPLETE WITH REQUIRED MOTOR STARTERS, SAFETY VALVES, TWO STAGE AIR FILTER AND PRV ASSEMBLY, ENCLOSED BELT GUARDS, REFRIGERATED AFTERCOOLERS WITH AUTOMATIC MOISTURE REMOVAL, PRESSURE SWITCHES, GAUGES, ETC. UNITS SHALL BE PROVIDED WITH VIBRATION ISOLATION. OPERATING DIAGRAMS AND INSTRUCTIONS SHALL BE FURNISHED TO THE OWNER. THEY SHALL BE MOUNTED IN PLASTIC AND AFFIXED IN LOCATIONS AS DIRECTED. THE MANUFACTURER SHALL ADJUST THE SYSTEM, AS REQUIRED, TO OBTAIN THE DESIRED OPERATING SEQUENCE AND THEN PROVIDE A SERVICEMAN FOR TWO WORKING DAYS, AT NO ADDED COST, TO INSTRUCT THE OWNER'S REPRESENTATIVE IN PROPER OPERATION AND MAINTENANCE. THE SEQUENCE OF OPERATION SHALL BE AS FOLLOWS:

1-HEATING SYSTEM
EXISTING BOILER CONTROLS SHALL BE CHECKED, REFURBISHED OR REPLACED AS REQUIRED SO AS TO AFFORD CONSTANT BOILER WATER TEMPERATURE OF 200°F WHENEVER THE OUTDOORS IS BELOW 60°F(ADJUSTABLE). PUMPS P-1&2 SHALL BE STARTED AND STOPPED BY A SEVEN DAY PROGRAMABLE TIME CLOCK. A NIGHT SET-BACK ROOM THERMOSTAT SHALL START THE PUMP WHEN ROOM TEMPERATURE FALLS. CIRCULATING WATER TEMP. SHALL BE SET FROM OUTDOORS BY THREE-WAY MIXING VALVES. WATER TEMPS. IN RADIATOR ZONES (H-1 THRU 4) SHALL BE SET BY ROOM THERMOSTATS CONTROLLING ZONE THREE-WAY BYPASS VALVES.

2-COOLING PLANT
PUMPS P-1, P-2, P-3 & P-4 SHALL BE STARTED AND STOPPED MANUALLY. THERMOSTAT IN CONDENSER WATER SUPPLY TO CHILLERS (SET 85°F ADJUSTABLE) SHALL UPON A DROP IN TEMPERATURE BELOW ITS SET POINT, CYCLE IN SEQUENCE THE TOWER FAN AND MODULATE THE TOWER BYPASS VALVE TO MAINTAIN ITS SET POINT. WATER CHILLERS (CH-1 & CH-2) SHALL BE STARTED MANUALLY AND OPERATION SHALL BE AUTOMATIC THEREAFTER WITH NEW CHILLER CARRYING THE BASE LOAD. CONTROL SHALL BE FROM RETURN WATER. PROVIDE AND INSTALL FLOW SWITCHES IN THE CHILLED AND CONDENSER WATER PIPING TO EACH MACHINE. OPERATION SHALL NOT OCCUR UNTIL FLOW IN BOTH SYSTEMS IS PROVEN. LOW LIMITS SHALL STOP CHILLER ON DROP IN SUPPLY WTR. TEMP.

3-CABINET HEATERS
ON A DROP IN TEMPERATURE BELOW ITS SETTING, AN ELECTRIC ROOM THERMOSTAT SHALL START THE FAN. A LOW LIMIT CLAMP-ON AQUASTAT SHALL PREVENT FAN OPERATION UNTIL HOT WATER IS AVAILABLE.

4-SYSTEMS AC-1, 2 & 3
SUPPLY FAN SHALL BE STARTED AND STOPPED MANUALLY. THE MINIMUM OUTSIDE AIR DAMPER SHALL OPEN AND THE CONTROL SYSTEM ACTIVATED WHEN THE FAN IS STARTED AND THE REVERSE WHEN STOPPED. WITH OUTSIDE AIR 68°F OR BELOW, THERMOSTAT LOCATED IN MIXED OUTSIDE/RETURN AIR SHALL FIRST MODULATE THE MAXIMUM OUTSIDE, THE RETURN AND RELIEF DAMPERS AND THEN THE THREE WAY CHILLED WATER VALVE SO AS TO MAINTAIN THE COLD DECK TEMPERATURE. A FREEZE PROTECTION THERMOSTAT SHALL STOP THE FAN IF TEMPERATURE FALLS BELOW SETTING. THERMOSTAT ON THE DISCHARGE SIDE OF HEATING COIL SHALL MODULATE THE THREE WAY HOT WATER VALVE TO MAINTAIN THE HOT DECK TEMPERATURE. THERMOSTAT SHALL BE FED WITH MAIN AIR.

FURNISH LABOR, TOOLS, MATERIAL, EQUIPMENT AND INSTALLATION TO PROVIDE HVAC CAPACITY AT LOCATIONS AND IN CONFORMITY WITH DIMENSIONS, DESIGN AND DETAILS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. WORK SHALL BE IN ACCORD WITH REQUIREMENTS OF LOCAL BUILDING CODES AND OTHER AUTHORITIES HAVING JURISDICTION AND BE COMPLETE IN ALL RESPECTS READY FOR THE OWNERS USE. CONTRACTOR SHALL VERIFY ALL JOB SITE CONDITIONS AND BE RESPONSIBLE FOR SAME.

FURNISH AND INSTALL WHERE SHOWN, A COMPLETE SYSTEM OF CONDITIONED AIR DISTRIBUTION INCLUSIVE OF THE REQUIRED AIR OUTLETS, INLETS AND HOODS, LOUVRES, VOLUME DAMPERS, FIRE DAMPERS, VOLUME CONTROL BOXES, SOUND TRAPS, ETC. AS NECESSARY. SHEETMETAL DUCTWORK AND DUCT SPECIALTIES SHALL GENERALLY BE OF THE SIZES AND DIMENSIONS SHOWN. HOWEVER, IF NEED BE, THEY SHALL BE MODIFIED OR REARRANGED TO MEET EXISTING CONDITIONS AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER. ACCESS DOORS SHALL BE INSTALLED AT ALL AUTOMATIC AND FIRE DAMPER LOCATIONS AND ELSEWHERE AS NEEDED TO PROVIDE PROPER ACCESS TO COMPONENTS. WHERE INDICATED, DUCTS SHALL BE WITH 1" DUCT LINING APPLIED WITH ADHESIVE AND MECHANICAL FASTENERS. DUCT SIZES SHOWN SHALL BE INSIDE OF LINING. DUCT SPECIALTIES SHALL BE OF TYPE AND MANUFACTURE AS SHOWN OR AS APPROVED.

ALL SHEETMETAL ASSOCIATED WITH THE MOVEMENT OF AIR SHALL BE INCLUDED AND BE FABRICATED AND INSTALLED USING BEST BLOOM GALVANIZED STEEL OF LOCK FORMING QUALITY IN CONFORMANCE WITH LATEST RECOMMENDATIONS OF ASHRAE AND SMACNA IN CONFORMANCE WITH LOCAL BUILDING CODES AND AS SHOWN DIAGRAMATICALLY ON DRAWINGS. DUCTS SHALL BE INSTALLED AS HIGH AS POSSIBLE EXCEPT IF OTHERWISE INDICATED, PROVIDE RISES, DROPS AND OFFSETS IN DUCTS AS REQUIRED TO CLEAR BEAMS, COLUMNS, PIPES OR OTHER OBSTRUCTIONS. INSTALLATION SHALL BE FULLY COORDINATED WITH THE WORK OF OTHER TRADES. WHERE SHOWN, RIGHT ANGLE ELBOWS AND DUCT TAKE-OFFS SHALL BE EQUIPPED WITH DUCTURNS OR AS APPROVED. DUCT PLENUMS AND CASINGS SHALL BE RIGID, STRONGLY SUPPORTED AND BRACED. LONGITUDINAL JOINTS SHALL BE PITTSBURGH LOCK OR GROOVED SEAM. TRANSVERSE JOINTS SHALL BE DRIVE SLIP, BAR SLIP, STANDING SEAM OR POCKETLOCK CONSTRUCTION, ANGLE REINFORCED AND/OR CROSS BROKEN WHERE REQUIRED. DUCTS SHALL BE INDEPENDENTLY SUPPORTED AND NOT FROM HUNG CEILINGS OR ANY SUPPORTS THEREOF. INTERIOR SURFACES SHALL BE SMOOTH WITH FLUSH JOINTS. CHANGES IN SIZE SHALL BE GRADUAL NOT ABRUPT. ALL SLIPS SHALL BE KNOCKED DOWN. AIR LEAKAGE SHALL BE KEPT TO A MINIMUM WITH ALL JOINTS TAPED AIR TIGHT WITH HARDCAST INC. STICK-E ALUMINUM SEALING TAPE OR 3M EC-800 INTERLAYED WITH GAUZE AS RECOMMENDED. GASKETS SHALL BE USED BETWEEN DISSIMILAR METALS WHERE THEY INTER-CONNECT. DUCTS OF OTHER MATERIALS SHALL BE PROVIDED IF INDICATED.

FURNISH AND APPLY INSULATION TO NEW DUCTWORK AND NON-INSULATED CASINGS, PLENUMS ETC. IN HUNG CEILINGS AND WHERE EXPOSED IN NON-CONDITIONED AREAS. INSULATION IN HUNG CEILINGS SHALL BE 1" FIBERGLAS FLEXIBLE DUCT WRAP WITH FACTORY APPLIED FOIL REINFORCED KRAFT PAPER VAPOR BARRIER ADHERED TO DUCT WITH FOSTER'S 85-20 ADHESIVE APPLIED IN STRIPS 8" O.C. LAP JOINTS A MINIMUM OF 2" WITH ADHESIVE. SECURE WITH 18 GAUGE GALVANIZED WIRE TIES 12" O.C. INSULATION, WHERE EXPOSED SHALL BE 1" FIBERGLAS 6LB DENSITY FACED OR UNFACED BOARD HELD IN PLACE WITH STIC-KLIPS OR SIMILAR MECHANICAL FASTENERS ON 12 TO 18 INCH CENTERS. JOINTS, CRACKS, ETC. INCLUDING MECHANICAL FASTENER PROTRUSIONS SHALL BE POINTED WITH FINISHING CEMENT TO PRESENT A SMOOTH FLAT SURFACE. FINISH INSULATION WITH A COAT OF FOSTER'S 30-36 SEALFAS, AN IMBEDDED LAYER OF GLASS FABRIC, ALPHA ASSOC. #16101067 OR AS APPROVED. A FINAL BRUSH COAT OF SEALFAS SHALL THEN BE APPLIED.

ONE REPRODUCIBLE AND TWO PRINTS OR SIX CATALOG CUTS OF SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION AND/OR INSTALLATION.

PERFORM ALL TEST AND/OR CONTROLLED OR OTHER INSPECTIONS OF THE WORK AS REQUIRED BY LOCAL BUILDING CODES AND AS NECESSARY TO DEMONSTRATE THE PROPER INSTALLATION AND OPERATION OF THE SYSTEMS. FINAL PAYMENT AND JOB ACCEPTANCE WILL BE MADE UPON THE SATISFACTORY COMPLETION AND RESULTS OF TESTS AND THE DELIVERY OF AN AIR BALANCE REPORT TOGETHER WITH ALL REQUIRED PERMITS AND/OR CERTIFICATES OF APPROVAL.

PUMPS P-5&6 SHALL BE STARTED AND STOPPED MANUALLY. WHEN THE FAN IS STOPPED, HOT DECK THERMOSTAT SHALL REMAIN ACTIVE WHILE THE OTHER CONTROL ITEMS ASSUME THEIR NORMAL POSITIONS. EACH ZONE THERMOSTAT SHALL POSITION ITS HOT/COLD DECK DAMPER SO AS TO SATISFY THE ROOM REQUIREMENT. WITH OUTSIDE AIR ABOVE 68°F, OPERATION SHALL BE AS ABOVE EXCEPT THE MAXIMUM OUTSIDE, THE RETURN AND RELIEF DAMPERS SHALL ASSUME THEIR NORMAL POSITIONS AND NOT PARTICIPATE IN THE SEQUENCE. PROVIDE AN EMERGENCY MANUAL OVER-RIDE SWITCH TO PERMIT DAMPER PARTICIPATION IN THE SEQUENCE IF CHILLED WATER IS NOT AVAILABLE. DUCT TYPE SMOKE DETECTORS, FURNISHED UNDER THE ELECTRICAL SPECIFICATIONS, SHALL BE INSTALLED IN THE DUCTWORK AND/OR EQUIPMENT BY THIS CONTRACTOR.

5-CENTRAL INDICATION & ALARM PANEL
FURNISH AN INDICATION ALARM PANEL IN THE CUSTODIAN'S OFFICE WITH THE FOLLOWING COMPONENTS:

A) TEMPERATURE/PRESSURE GAUGES

OUTSIDE AIR	AC-1, 2 & 3	RETURN AIR
CHILLED WATER SUPPLY	"	MIXED AIR
CHILLED WATER RETURN	"	HOT DECK
CONDENSER WATER SUPPLY	"	COLD DECK
CONDENSER WATER RETURN	"	ZONE DISCHARGES

B) FAN INDICATION AND ALARM LIGHTS

	RUN	FREEZE	FIRE
AC-1, 2 & 3			

C) PUMP, CHILLER, TOWER INDICATOR LIGHTS

ALL UNITS	RUN
TOWER BYPASS,WATER TO TOWER	ON

'ON' LIGHT--AMBER, 'RUN' LIGHT--GREEN, ALARM LIGHT--RED
PROVIDE ALARM BUZZER AND SILENCE SWITCHES FOR 'FREEZE' AND 'FIRE' INDICATION. ALL RELAYS AND WIRING WITHIN PANEL SHALL BE FACTORY WIRED TO NUMBERED TERMINAL STRIPS.

WATER TREATMENT EQUIPMENT AND INSTALLATION

FURNISH AND INSTALL IN THE M.E.R. WATER TREATMENT EQUIPMENT FOR THE CONDENSER WATER SYSTEM CONSISTING IN GENERAL OF A CHEMICAL TANK AND METERING PUMP MANUFACTURED BY LIQUID METRONICS INC. OR AS APPROVED, A CONTACT HEAD WATER METER AND CONTROL MANUFACTURED BY CAMBRIDGE SCIENTIFIC IND.(HYDAC) OR AS APPROVED. EQUIPMENT SHALL BE PIPED INTO THE CONDENSER WATER RETURN PIPING TO THE COOLING TOWER WITH BLEED PIPING TO THE FLOOR DRAIN. STRAINERS SHALL BE PROVIDED AHEAD OF SOLENOID VALVES WITH SHUT-OFFS BEFORE AND AFTER.

PLUMBING & DRAINAGE SPECIFICATION

FURNISH AND INSTALL PLUMBING AND APPURTENANT WORK AS SHOWN AND AS SPECIFIED HEREIN. THE WORK, INCLUDING REQUIRED TESTS, SHALL CONFORM TO NY STATE AND TOWN OF ORANGETOWN REQUIREMENTS AND ALL OTHER APPLICABLE CODES. IN GENERAL, WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING MAJOR ITEMS:
1 - PLUMBING FIXTURES TOGETHER WITH ALL RELATED PIPING.
2 - SANITARY WASTE, VENT, HOT & COLD WATER PIPING CONNECTIONS TO NEW AND EXISTING INSTALLATIONS AS SHOWN.
3 - ROUGHING & FINAL CONNECTIONS FOR FIXTURES & EQUIPMENT FURNISHED UNDER THIS SECTION AS WELL AS THOSE FURNISHED UNDER THE OTHER SECTIONS OF THESE SPECIFICATIONS.
4 - ROOF DRAINAGE WITH CONNECTION TO STORM SEWER.

MATERIALS SHALL BE NEW, UNUSED, BEST OF THEIR RESPECTIVE KINDS AND FREE FROM DEFECTS. REFERENCE TO SPECIFICATIONS OF RECOGNIZED AUTHORITIES ARE USED TO ESTABLISH BASIS OF QUALITY, LATEST EDITIONS SHALL GOVERN. SANITARY WASTE, VENT AND STORM DRAINAGE PIPING ABOVE GROUND WITHIN BUILDING SHALL BE GALVANIZED STEEL PIPE WITH DRAINAGE FITTINGS ON SOIL, WASTE & DRAINAGE AND GALVANIZED MALLEABLE IRON FITTINGS ON VENT PIPING. IN LIEU OF THE FOREGOING, DWV OR HEAVIER COPPER TUBING OR CAST IRON NO-HUB PIPE AND FITTINGS, TYLER CORP. OR AS APPROVED MAY BE USED. UNDERGROUND PIPING SHALL BE HUB TYPE CAST IRON OR TYPE "L" HARD TEMPER COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS IF USED. COPPER TUBING FOR UNDERGROUND DRAINS SHALL BE TYPE "K". HOT & COLD WATER PIPING SHALL BE TYPE "L" WITH WROUGHT COPPER SWEAT FITTINGS. 95/5 SOLDER SHALL BE USED. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL SCREWED. UNDERGROUND GAS AND WATER PIPING SHALL BE WRAPPED OR OTHERWISE PROTECTED AS APPROVED. GATE VALVES, 2½" & SMALLER SHALL BE "KENNEDY" FIG. 427SJ OR 427, BRONZE NON-RISING STEM, 200PSI, WWP. REMOVE STEM IF SOLDERED. LARGER VALVES SHALL BE "KENNEDY" FIG. 058, IBBM,FLANGED OR AS APPROVED.

WATER PIPING SHALL BE RUN LEVEL, GENERALLY FREE OF TRAPS AND BENDS CONFORMING TO BUILDING REQUIREMENTS AND CLEARANCE NEEDS OF OTHER WORK SUCH AS DUCTS LIGHTING FIXTURES, CONDUITS, OTHER PIPING AND THE LIKE. HOT & COLD WATER PIPING SHALL BE SEPARATED AT LEAST 6" WITHOUT CONTACT AND WITH NEEDED CLEARANCES FOR INSULATION. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE WITH EASY BENDS AND ADEQUATE PITCH. REDUCING FITTINGS SHALL BE USED BUSHINGS WILL NOT BE PERMITTED. EXPOSED PLATED, POLISHED OR ENAMELED FIXTURE CONNECTIONS SHALL BE WITHOUT TOOL MARKS OR EXPOSED FITTING THREADS. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS SHALL BE VERIFIED AT THE JOB SITE. PIPES PASSING THROUGH CONCRETE FLOORS SHALL BE WITH BLACK STEEL PIPE SLEEVES,THROUGH INTERIOR WALLS WITH 20 GAUGE GALVANIZED SLEEVES ALL LARGE ENOUGH TO PERMIT INSULATION TO BE CARRIED TELROUGH. HANGERS AND SUPPORTS SHALL BE F&S OR AS APPROVED FIG. 66 OR 86T ON BARE PIPE AND 86C FOIL WRAPPED SHIELD ON INSULATED PIPE. HANGERS SHALL BE SUPPORTED BY STEEL ROD HOT AND COLD WATER PIPING AND HORIZONTAL OVERHEAD ROOF DRAINAGE PIPING SHALL BE INSULATED WITH FIBERGLAS 25 ASJ PIPE INSULATION. DRAINS SHALL BE WADE OR AS APPROVED. ROOF DRAINS SHALL BE W-3220 CAST IRON WITH FLASHING RING AND MUSHROOM DOME. FLOOR DRAINS SHALL BE STANDARD W-1100 NICKEL BRASS STRAINER WITH SECURED SLOTTED GRATE.

PLUMBING FIXTURES SHALL BE KOHLER OR AS APPROVED UNLESS OTHERWISE INDICATED. BRASS EXPOSED TRIM, INCLUDING FAUCETS,VALVES, TRAPS,WASTE,STRAINERS,ESCUTCHEONS,SUPPLIES,ETC. SHALLBE CHROME PLATED. FIXTURES SUPPLIED AND/OR INSTALLED BY THIS CONTRACTOR SHALL BE FURNISHED WITH STOP VALVES ON HOT & COLD WATER SUPPLIES BY THIS CONTRACTOR. COLD WATER SHALL BE TO THE RIGHT ON FIXTURES. PLUMBING FIXTURES SHALL BE AS FOLLOWS ALL WHITE EXCEPT IF OTHERWISE NOTED.

1.- WATER CLOSET "P-1"
WELLWORTH WATER GUARD K-3520-EB, VITREOUS CHINA, ELONGATED SIPHON JET BOWL, CLOSE COUPLED TANK, FREE STANDING WITH K-4666-C WHITE OPEN FRONT SEAT AND K-7638 3/8" TOILET TANK SUPPLY ASSEMBLY.

2.- WATER CLOSET P-2"
HIGHLINE WATER GUARD K-3527-EB OTHERWISE SAME AS "P-1".

3.- URINAL "P-3"
BARDON K-4960-T VITREOUS CHINA, WALL HUNG, WASHOUT TYPE, 3/4" TOP SPUD, 2" I.P.S. OUTLET, REMOVABLE STRAINER WITH URINAL SELF CLOSING TYPE FLUSHING VALVE.

4.- LAVATORY "P-4"
BROOKLINE K-2202 SELF RIMMING,VITREOUS CHINA,8" FAUCET CENTERS WITH K-7491 - TRITON II FAUCET & 1½" POP-UP DRAIN, K-7606 3/8" ANGLE SUPPLIES WITH STOPS AND K-9000 1½" CAST BRASS "P" TRAP.

5.- LAVATORY "P-4A" (INSTALL AT HANDICAP HEIGHT)
KINGSTON K-2006 WALL MOUNTED,VITREOUS CHINA OTHERWISE SAME AS "P-4".

6.- SERVICE SINK "P-5"
SUDBURY K-6650,VITREOUS CHINA WITH WALL HANGERS SUPPORTS, K-8905 FAUCET, K-8934 STAINLESS STEEL RIM GUARDS AND K-6672 TRAP STANDARD WITH 2"I.P.S. CONNECTION.

7.- KITCHEN SINK "P-6"
MAYFIELD K-5964 SELF RIMMING ENAMELED CAST IRON WITH 4 FAUCET HOLE DRILLINGS AND K-7765-T TRITON II FAUCET, SWING SPOUT WITH AERATOR AND LEVERED CONTROL SPRAYER, K-8801 SINK STRAINER AND K-9000 1½" CAST BRASS "P" TRAP.

8.- DRINKING FOUNTAIN "P-7"
ELKAY MODEL EDFP-117-C WALL MOUNTED, REAR ACCESS REQUIRED WITH SHUT-OFF VALVE, 115 V AC.

9.- MOP SERVICE SINK "P-8"
FIAT PRE-CAST TSB-800 36x24" WITH 12" LIP, 830-AA FAUCETS, 832-AA HOSE AND HOLDER AND 1453-BB STRAINER.

10.-ROOF DRAIN "P-9"
WADE SERIES W-3220 CAST IRON, SIZED AS SHOWN WITH FLASHING RING AND DOME.

11.-FLOOR DRAIN "P-10"
WADE SERIES W-1100 STANDARD 6" DIAMETER NICKEL BRASS STRAINER WITH SECURED SLOTTED GRATE.

12.- SILL COCK-¾"- FREEZEPROOF- KEY OPERATED

GENERAL

FUEL BURNING EQUIPMENT SHALL MEET THE MINIMUM INSPECTION REQUIREMENT OF STATE OF NEW YORK 12 NYCRR CODE RULE 244-14 WHERE APPLICABLE

WHERE ASBESTOS OR ANY OTHER HAZARDOUS MATERIALS ARE TO BE DISTURBED, THEY WILL BE REMOVED BY THE OWNER UNDER A SEPARATE CONTRACT

THE EXISTING BUILDING IS TO REMAIN IN USE DURING CONSTRUCTION UPON AWARD OF CONTRACT, CONTRACTORS SHALL PREPARE AND SUBMIT A SCHEDULE OF THEIR OPERATIONS TO THE ARCHITECT FOR HIS PERUSAL AND APPROVAL.

THOMAS H. QUINLAN. P.E.
MECHANICAL ELECTRICAL CONSULTANT
12 CENTER STREET
PEARL RIVER. NEW YORK

DATES
NYSED APPROVAL 11-1-88
FOR BID 2/21/89

REVISIONS

NYSED 50-03-08-03-6-005-001

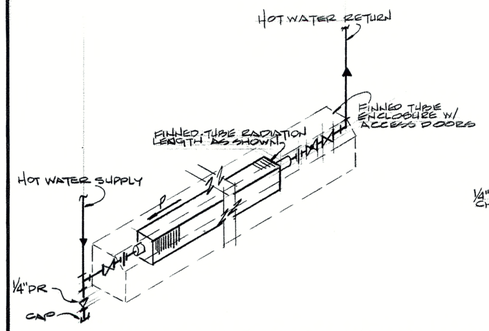
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TITLE
HVAC & PLUMBING SPECIFICATIONS

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DRAWING
MECH
MS 1

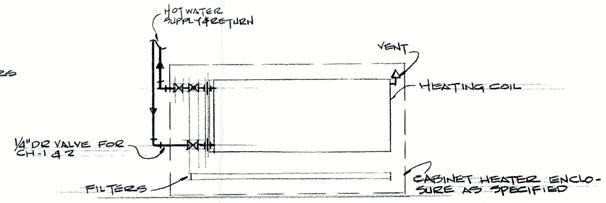
JOB NO.
8601



FINNED TUBE RADIATION PIPING DETAIL

NO SCALE

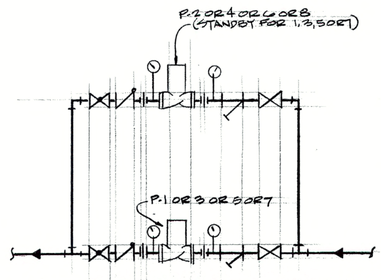
SLANT FIN OR AS APPROVED TYPE DSF-1
1/2" COPPER 1500 BTU/LF @ 190°F
CONTINUOUS 14 GAUGE ENCLOSURE W/
20 GAUGE BACK & DAMPER, COLOR
AS SELECTED BY ARCHITECT



CABINET HEATER PIPING DETAIL

NO SCALE

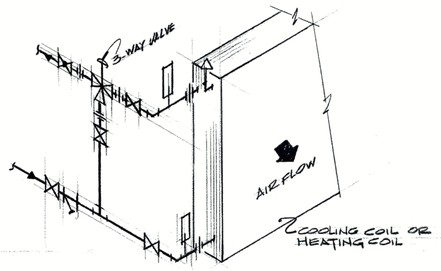
SEE PLANS FOR EQUIPMENT SIZES



IN-LINE PUMP PIPING DETAIL

NO SCALE

SEE DWG. HVAC-5 FOR EQUIPMENT SIZES



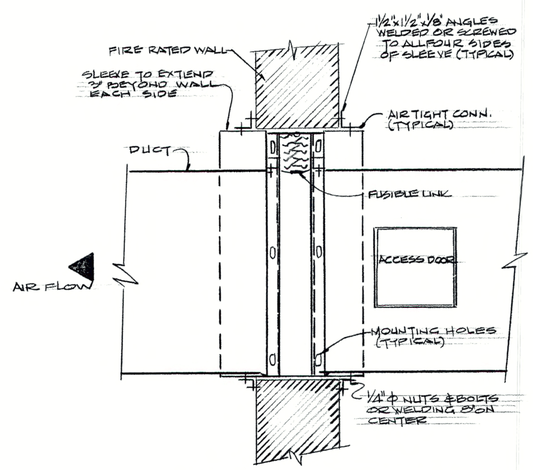
3-WAY VALVE WATER COIL PIPING DETAIL

NO SCALE

ALL COILS SHALL BE PIPED FOR COUNTER FLOW

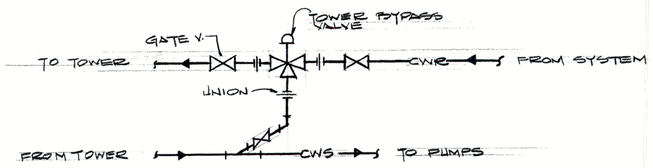
LEGEND

———	NEW
- - - -	EXIST.
~~////~~	EXIST. TO BE REMOVED
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
DR	DRAIN
C.W.	COLD WATER
H.W.S.	HOT WATER SUPPLY
H.W.R.	HOT WATER RETURN
CD	CEILING DIFFUSER
CR	CEILING REGISTER
TGR	TOP REGISTER
TG	TOP GRILLE
N	NECK
SD	SPLITTER DAMPER
VD	VOLUME DAMPER
AD	ACCESS DOOR
FD	FIRE DAMPER
——▷◁——	GATE VALVE
——▷|——	CHECK VALVE
——▷◁——	GLOBE VALVE
——||——	UNION
——▷◁——	STRAINER W/ BLOWDOWN
T	THERMOSTAT
	THERMOMETER
P	PRESSURE GAGE
- - - -	DUCT W/ 1" ACOUSTIC LINING
P	PITCH
ALD	AUTOMATIC LOUVER DAMPER
MD	MOTORIZED DAMPER
O.A.I	OUTSIDE AIR INTAKE
WMS	WIRE MESH SCREEN
W/	WITH



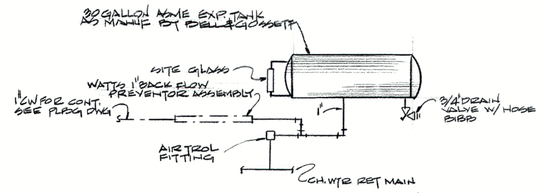
FIRE DAMPER DETAIL

NO SCALE



TOWER BYPASS PIPING DIAGRAM

NO SCALE



CHILLED WATER EXPANSION TANK DETAIL

NO SCALE

THOMAS H. QUINLAN, P.E.
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TITLE LEGEND, DETAILS & PHASING NOTES

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DRAWING HVAC 1

JOB NO. 8601

NOTE:
REMOVE ALL EXIST. DUCTWORK, DIFFUSERS REGISTERS IN EXIST. LIBRARY HVAC SYS SEE PHASING FOR REMOVAL SCHEDULE

DATES	NYSED APPROVAL - 11/1/88 FOR BID - 2/21/89
REVISIONS	
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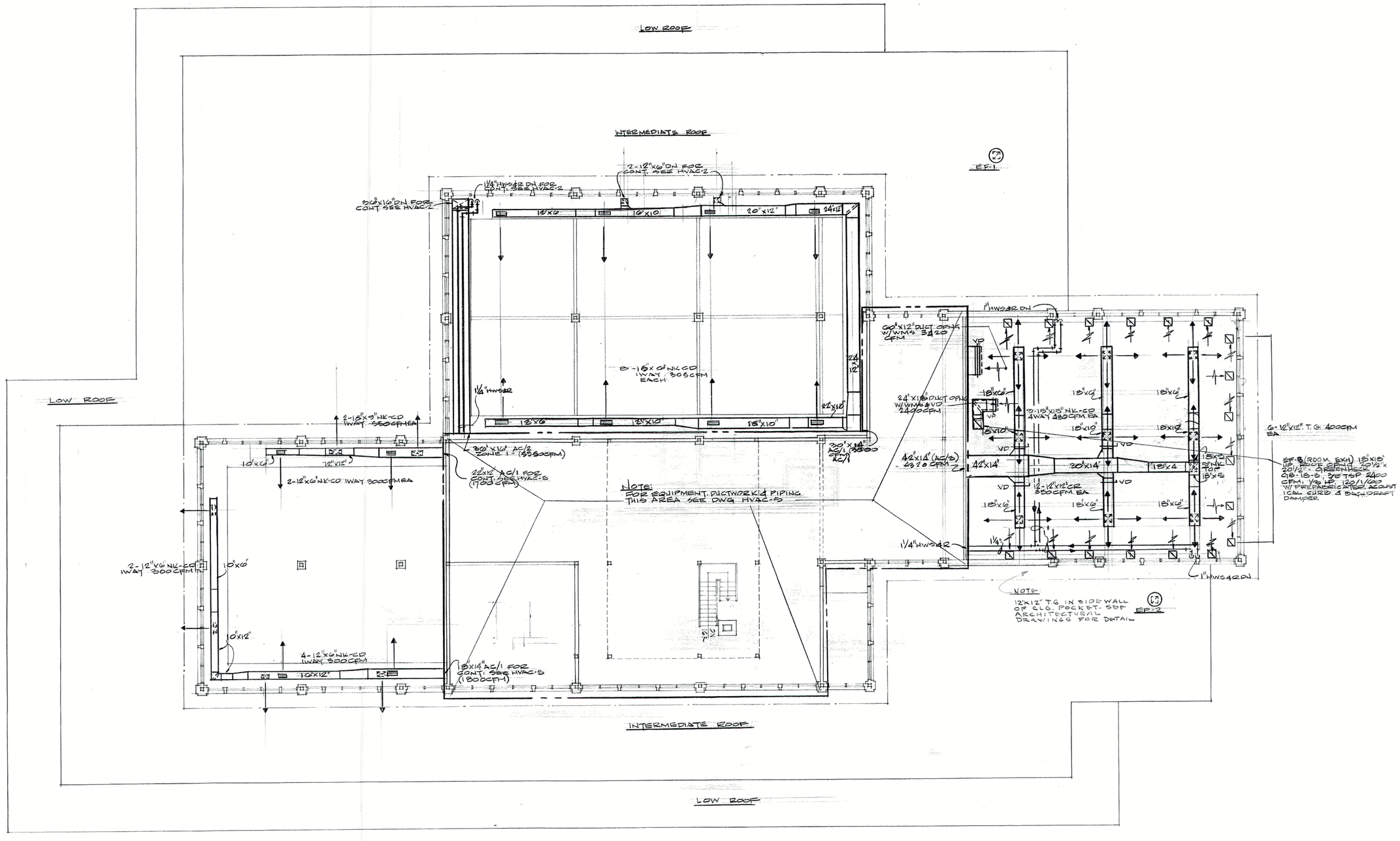
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TITLE LOWER LEVEL PLAN
HVAC

DRAWING
HVAC
2

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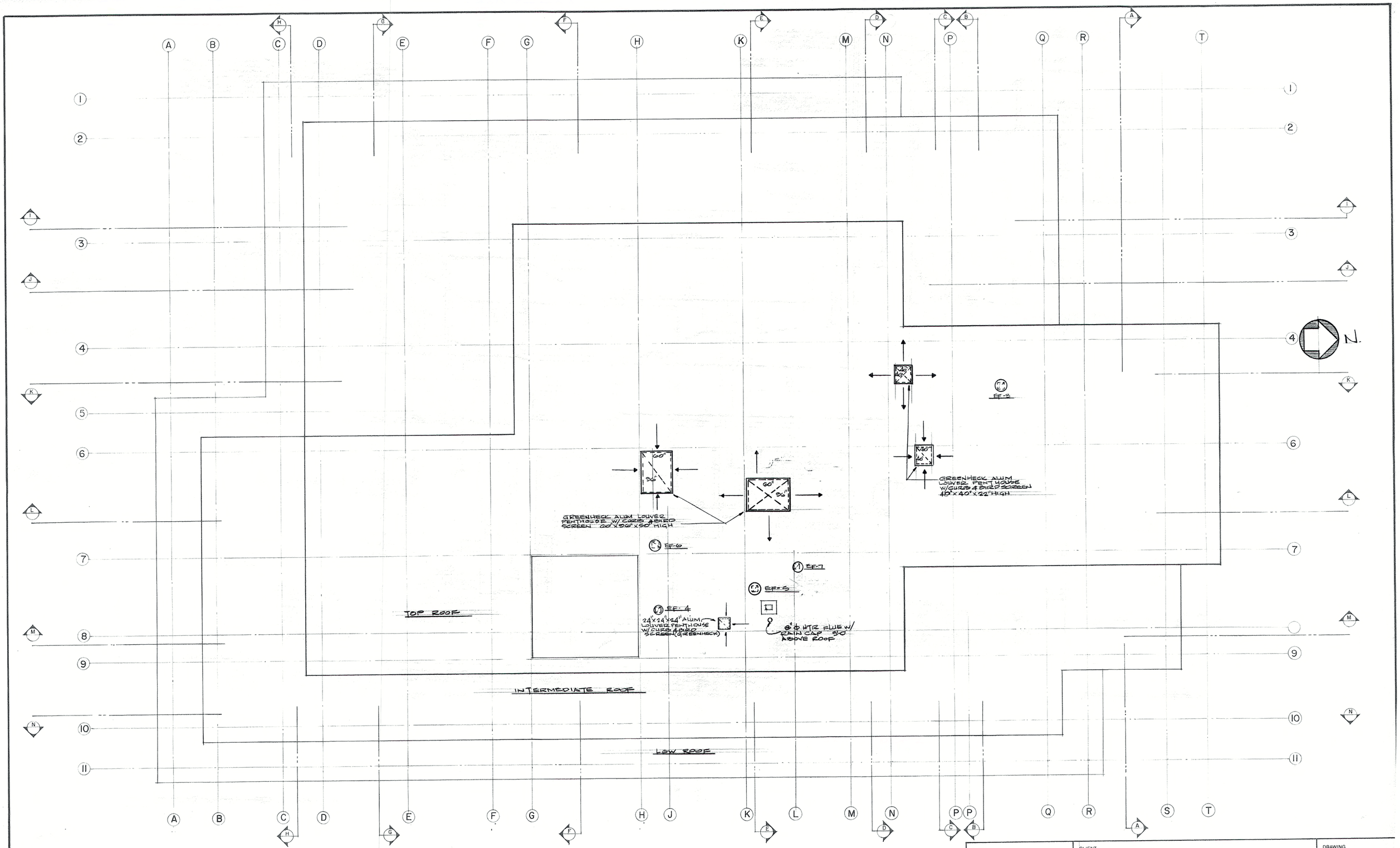
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TITLE
INTERMEDIATE LEVEL PLAN
HVAC

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DRAWING
HVAC
3

JOB NO.
8601



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TITLE
ROOF PLAN - HVAC
SCALE: 1/8" = 1'-0"

DRAWING
HVAC
4

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JOB NO. 8601

AC/2 NEW TRANE #35 MULTI-ZONE BLOW-THRU 4 ZONES 18000 CFM @ 2½" T.S.P 15HP 208/3/60 ZONE 1 - 5550 CFM, ZONE 2 - 4320 CFM, ZONE 3 - 2220 CFM & ZONE 4 - 5000 CFM MED. CAP FILTERS W/ 6ROW 11FPI COOLING COIL 78°F db, 64.7°F wb ENT. 55.7°F db, 53.2°F wb LAT 103 GPM 2ROW 11FPI HTG COIL - 35°F ENT. 95°F LAT 64 GPM

TRANE #25 MULTI-ZONE BLOW-THRU EXIST AC-1 - REMOVE EXIST. O.A & RET AIR CONN. REPLACE FAN TO 5050 CFM - 5 HP 208/3/60 EXIST. NEW 78°F db, 64.7°F wb ENT. 55°F db, 53.2°F wb LAT 46 GPM - 55°F 800 295 CFM - CONVERT UNIT TO SINGLE ZONE

AC-2 O.A.I. ALD MIN - MAX MIN - 2100 CFM MAX - 15900 CFM

AC-1 O.A.I. ALD MIN - MAX MIN - 1100 CFM MAX 6950 CFM

40"x40" UP TO RF LIEB AIR PENTHOUSE (SHADED DUCT INSULATED W/ 2" OF INSUL.)

36"x30" TR W/ FD 8850 CFM

"McQUAY" CABINET HEATER 010A - HORIZ. DUCT CONN. 1035 CFM - 10 GPM ½ HP - 120/1/60 - 5 AMPS

40"x40" UP TO O.A.I. PENTHOUSE

30"x14" (3000 CFM) FD&AD AC-1

18"x10" DN W/FD&AD FOR CONT. SEE HVAC-2

44"x3½" RELIEF ALD (4800 CFM)

30"x12" FOR CONT. SEE HVAC-3

SEE DWG HVAC-1 FOR COIL CONN.

FD&AD 44"x3½"

48"x16" 18"x10" DN W/ FD&AD RETURN ALD (4800 CFM)

MIN-MAX. ALD. MIN. 850 CFM - MAX 4800 CFM

36"x8" DN (ZONE 2) W/FD&AD

24"x20" FC

12"x10" DN (ZONE 1) W/FD&AD

42"x14" FOR CONT. SEE HVAC-3

AC/2 (NEW) TRANE #40 DW-THRU - MULTI-ZONE #10 - 5550 CFM @ 2½" T.S.P MED. CAP FILTERS 2"THICK 51HP 208/3/60 - ZONE 1 (12"x25") 4320 ZONE 2 (16"x25") 2350 CFM. ZONE 3 (30"x25") 4800 CFM - 6ROW 11FPI COOLING COIL 78°F db, 64.7°F WB ENT. 55°F db, 53.2°F WB LAT 82 GPM - 2 ROWS 11FPI HTG COIL ENT. 95°F - 55°F LAT 20 GPM

1¼" HWR 1¼" HWS

AC-1 (1550 CFM) 20"x12" FOR CONT. SEE HVAC-2 ¾" HWS ¾" HWR 8"x8" DN W/ FD&AD EXT UP TO FAN EF-7

PS & PU - 100 GPM @ 40' OF HD BELL & GOSSETT 2"x2"x1" SERIES 60 2 HP 208/3/60 FOR STANDBY FOR P-5

P1 & P3 - 30 GPM @ 40' OF HD BELL & GOSSETT 1½"x1½"x1" SERIES 60 1½ HP 208/3/60 PUMP P6 STANDBY FOR P-7

CONN. NEW 4" HWS & R INTO EXIST. 4" RISERS

EF-5 (BOILER RM) 12"x12" UP W/ 14½"x14½" ROOF OPNG. GREENHECK MODEL QEI-10-4 700 CFM @ 3/8" THE 1/4 HP 120/1/60 W/ PREFAB ACOUSTICAL CURB & BACK DRAFT DAMPER

FAN NOTES:
1. EF-7 "GREENHECK", MODEL QEI-7-4 1750 CFM @ .875" T.S.P 1/4 HP 120/1/60 W/ PREFAB ACOUSTICAL CURBS & BACK DRAFT DAMPER
2. EF-6 "GREENHECK" MODEL QEI-8-4 3300 CFM @ 3/8" T.S.P 1/4 HP 120/1/60 W/ PREFAB ACOUSTICAL CURB & BACK DRAFT DAMPER
3. EF-4 "GREENHECK" MODEL QE-18-4

22"x12" AC-1 (1700 CFM)

1¼" HWS & R

1½" HWS DN 1½" HWR DN

16"x30" AC/2 ZONE 2 (4320 CFM) DN W/ FD&AD

18"x12" DN ZONE 3 AC/2 (2220 CFM) W/FD&AD

10"x24" TR 14000 CFM

36"x16" DN ZONE 4 (5000 CFM) W/ FD&AD AC-2

24"x24" DN TO 24"x24" CR W/FD

DUCT IN INTERMEDIATE H.C

RET AIR ALD 15900 CFM

REL ALD (15900)

CONN. NEW 2½" HWS & R TO HTG COIL

CONN. NEW 1½" HWS & R INTO EXIST. HW CONN

CONN. NEW 2½" CHWS & R INTO EXIST CH. WTR. LINES

AC-1 RELIEF AIR DAMPER (6950)

CONN. NEW 8" CWS & R INTO EXIST.

10"x8" DN W/FD&AD - 12"x12" UP TO EF-6

¾" C.W FOR CONT SEE DWG F-2

1" PVB VALVE BOTTOM OF EACH PIPE

2" OVERFLOW

DRAIN

¾" C.W MAKE-UP

2" DRAIN

COOLING TOWER "MARLEY" 285 T - 285 GPM - 95°F TO 85°F @ 78°F WB OUT - 80°F TEMP. 5 HP 208/3/60

COOLING TOWER ON STEEL PAN/GRATE SET 3'-0" ABOVE ROOF

GREENHECK GB-18-4 18"x10" DUCT DN W/ VMD 2000 CFM 1/4 HP 1/4 HP 120/1/60 W/ PREFAB SINGLE ACOUSTICAL CURB & BACK DRAFT DAMPER (FAN EF-4)

18"x14" AC/1 (1800 CFM)

5'-0" NTS

7'-0"x7'-0" ALUM LOUVER W/ BIRD SCREEN

84"x84"

12"x18" DN TO EXIST 30"x15"

REMOVE DUCT FROM FL. TO LOUVER

24"x24" UP TO BOILER RM 2'-0" I.D. & DN & CONN TO EXIST. 30" DIA DUCT

PUMP P-3 & P-4 BELL & GOSSETT 165 GPM @ 60 FT HD SERIES 60 3"x3"x7½" - T½" HP 208/3/60

3-WAY TOWER BY-PASS

CWS & CWR

¾" PIPE TO ROOF DRAIN

4" NEW FLUE UP THRU ROOF

ZONE H-1

ZONE H-2

ZONE H-3

ZONE H-4

EXIST. CHILLER TO REMAIN (CH-1)

REMOVE EXIST. COOLING TOWER, CND ENSER WATER PUMP & PIPING EXCEPT FOR THAT PIPING SHOWN TO REMAIN

NEW CHILLER (CH-2) CARRIER MODEL 30 HK 040 2 COMPR. @ 1750 RPM CH WTR @ 42°F - 85°F TO 44°F 115 GPM COND WTR @ 85°F TO 95°F 7.0 PD 35.0 KW 144 MCA 208/3/60

PUMPS P1 & P-2 (RACKED) SEE DWG HVAC-1 FOR SCHEMATIC PIPING DIAGRAM (PUMP P-2 STAND BY FOR P-1) PUMPS EACH BELL & GOSSETT 4"x4"x7½" @ 275 GPM @ 30 FT OF HD 5 HP 208/3/60

N.

EXIST. SUPPLY & EXH. DUCT TO REMAIN

REPLACE EXIST BURNER W/ NEW POWER FLAME C2G15 GAS BURNER ½ HP 115/1/60 OR AS APPROVED

EXIST. 5 SECT. SERIES 28 H.B. SMITH BOILER TO REMAIN

EXIST. 4" HWR & S RISERS TO REMAIN

ADD TO THE END OF THE EXIST. BOILER. ONE (1) NEW CAST IRON SECTION & ENCLOSURE JACKET NEW NET I-B-R 1,139,100 BTU/H

PARTIAL SECOND FLOOR PLAN
1/4" = 1'-0" SEE PHASING NOTES DWG HVAC-1

PLAN OF BOILER RM
1/4" = 1'-0"

FIRST FLOOR MECHANICAL ROOM PLAN

THOMAS H. QUINLAN, P.E.
MECHANICAL ELECTRICAL CONSULTANT
12 CENTER STREET
PEARL RIVER, NEW YORK

DATES
NYSED APPROVAL - 11/1/88
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DRAWING
HVAC 5

JOB NO. 8601

6" STORM DR TO STORM CONDUIT
6" C.O W/CAP
4" UP
4" DROP
3/4" GATE VALVE
STACKS & READING
TO CATCH BASIN SEE SITE PLAN
PEARL RIVER ROOM
EXIST. G. STONE ON CONC. BLK. TO REMAIN
1 1/4" H.W.S. FOR CONT. 2" C.W.S. SEE DWG. P-2
OFFICE
MEN'S TOILET
VESTIBULE
T.EL.
WOMEN'S TOILET
U.G.
FOR PIPING THIS AREA SEE DWG. P-3
4" C.I.O.
EXIST. G. STONE WALL TO REMAIN
VESTIBULE
REMOVE EXIST. ROOF DRAIN & PIPING IN ITS ENTIRETY
HUB
REMOVE EXIST. ROOF DRAIN & PIPING IN ITS ENTIRETY
PROJECTION
COMMUNITY ROOM
STORY HOUR
REFERENCE
CONNECT TO EXIST. 4" VTR
STORAGE
BOARD ROOM
REMOVE EXIST. SOIL MAIN & FIXTURES & INSTALL NEW 4" C.I.O.
JOILET
JOILET
CLOSET
STORAGE
STORAGE
SEE DWG. P-3 FOR PIPING THIS AREA
CONN. 3" H.W. TO EXIST. SEWER
STAFF
3/4" UP TO NEW RD XEROX
EXIST. BOILER RM SEE DWG. P-3 FOR PIPING THIS AREA
OFFICE
STACKS
REMOVE EXIST. ROOF DR. & PIPING IN ITS ENTIRETY
REMOVE EXIST. C.W. CONN TO EXIST. COOLING TOWER
EXIST. TO REMAIN
CHILDREN LIBRARY
REMOVE & RELOCATE GAS METER. CONN. NEW G.I. INTO EXIST.
ASS'T DIRECTOR
GAS SIZED TO MATCH EXIST.
REMOVE EXIST. SINK, WASTE, VENT, HOT, COLD WATER & STOVE W/ GAS PIPING
3/4" C.W. UP TO COOLING TOWER
V.P. TO 3" DIA.
PROVIDE NEW 3" RAISING FOR FIXTURE KITCHEN
8" STORM DRAIN TO CATCH BASIN SEE SITE PLAN
3" UP TO ROOF DRAIN
4" C.O W/CAP
REMOVE EXIST. SEWER, HOUSE TRAP & FAU
FOR PIPING THIS AREA SEE DWG. P-3
3/4" G KITCHEN
EXIST. SEWER TO REMAIN
CONN. NEW 4" INTO EXIST. 3" FAN
NEW 4" HOUSE TRAP
STORAGE
EXIST. SOIL TO REMAIN
4" C.O.D.P.
REMOVE EXIST WATER SERVICE METER FROM THIS POINT EXIST WATER BOX
EXIST. WATER
CONN. NEW WATER MAIN TO EXIST.
EXIST. SEWER
EXIST CURB
EXIST. SEWAGE MAIN
EXIST. SIDEWALK
FRANKLIN AVENUE
NEW WATER SERVICE & METER INSTALLED TO LOCAL GOVERNING CODES & PUBLIC UTILITY REQUIREMENTS
2" C.W.
RELOCATED OR NEW METER AS DIRECTED BY UTILITY CO.
REMOVE EXIST GAS SERVICE FROM THIS POINT
EXIST. GAS SERVICE
CONN. NEW GAS I.P. EXIST. SIZE TO MATCH EXIST. SERVICE
INSTALL NEW GAS LINE BELOW GRADE AS/ALL LOCAL GOVERNING CODES & PUBLIC UTILITY REQUIREMENTS
4" UP (FOR CONT. SEE ARCH) 2400 # TYP FOR 8
4" C.O W/CAP
N.

THOMAS H. QUINLAN, P.E.
MECHANICAL ELECTRICAL CONSULTANT
12 CENTER STREET
PEARL RIVER, NEW YORK

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TITLE
LOWER LEVEL PLAN
PLUMBING

DRAWING
PLUMB 1

JOB NO. 8601

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6" STORM DR. TO STORM CONDUIT

EXISTING CATCH BASIN

4" DROP

4" HOSE BIBB COCK

4" DROP

4" DROP

4" DROP

4" CO WITH CAP VERIFY LOCATION WITH ARCHITECT

4" DROP

4" TO EXISTING CATCH BASIN

TO CATCH BASIN SEE SITE PLAN

4" DROP

OFFICE

PEARL RIVER ROOM

EXIST'G STONE ON CONC BLK. TO REMAIN

1¼" H.W.S. FOR CONT. 2" CWD SEE DWG P-2

STACKS & READING

MEN'S TOILET

VESTIBULE

TEL.

J.C.

WOMEN'S TOILET

FOR PIPING THIS AREA SEE DWG P-3

4" C.O.

EXIST'G STONE WALL TO REMAIN

VESTIBULE

REMOVE EXIST. ROOF DRAIN & PIPING IN ITS ENTIRETY

HUB

REMOVE EXIST. ROOF DRAIN & PIPING IN ITS ENTIRETY

PROJECTION

COMMUNITY ROOM

STORY HOUR

REFERENCE

REMOVE EXIST. SINK, MAINS & FIXTURES & INSTALL NEW 4'-6" O.T.F.

CONNECT TO EXIST. 4" VTR

STORAGE

BOARD ROOM

TOILET

TOILET

CLOSET

STORAGE

SEE DWG P-3 FOR PIPING THIS AREA

STORAGE

CONN 3" INTO EXIST. GREASE

STAFF

3" UP TO NEW FD

VERICOX

EXIST. BOILER RM SEE DWG P-3 FOR PIPING THIS AREA

REMOVE EXIST. ROOF DRAIN & PIPING IN ITS ENTIRETY

REMOVE EXIST. CW CONN TO EXIST. COOLING TOWER

EXIST. REMAIN

3" TO

OFFICE

STACKS

CHILDREN LIBRARY

EXIST. SOIL TO REMAIN

REMOVE EXIST. SINK, WASTE, VENT, HOT, COLD WATER & STOVE W/ GAS PIPING

REMOVE & RELOCATE GASMETER CONN. NEW 4" INTO EXIST.

ASST. DIRECTOR

3/4" CW UP TO COOLING TOWER

VP TO 3" DRY

GAS SIZED TO MATCH EXIST.

PROVIDE NEW 3" ROOFING FOR FUTURE KITCHEN

3" UP TO ROOF DRAIN VERIFY LOCATION

3" TO UPPER SITE

4" DROP

4" DROP

4" DROP

4" DROP

4" C.O. W/CAP VERIFY LOCATION WITH ARCHITECT

EXISTING CATCH BASIN

FOR PIPING THIS AREA SEE DWG P-3

REMOVE EXIST. WATER SERVICE METER FROM THIS POINT EXIST. WATER BOX

EXIST. WATER

CONN. NEW WATER MAIN TO EXIST.

EXIST. SEWER

EXIST. SEWER TO REMAIN

REMOVE EXIST. SEWER, HOUSE TRAP & VENT

¾" H.W.H. COCK

¾" G KITCHEN

CONN. NEW 4" INTO EXIST 8" FAN

EXIST. CURB

EXIST. SEWER MAIN

EXIST. SIDEWALK

FRANKLIN AVENUE

NEW 4" HOUSE TRAP

STORAGE

NEW WATER SERVICE & METER INSTALLED AS PER LOCAL GOVERNING CODES & PUBLIC UTILITY REQUIREMENTS

RELOCATED DO NEW METER AS DIRECTED BY UTILITY CO

REMOVE EXIST GAS SERVICE FROM THIS POINT

EXIST. GAS SERVICE

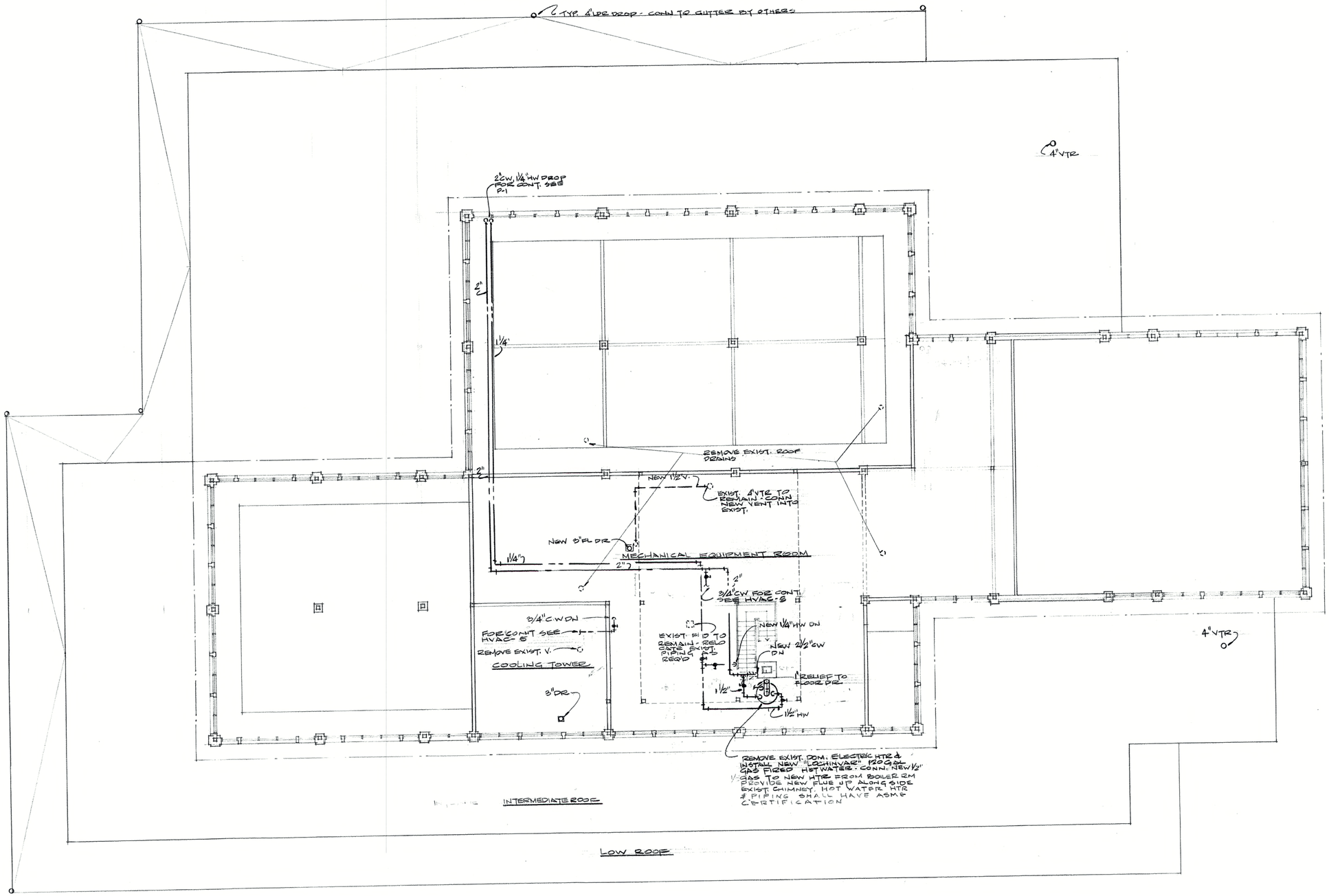
CONN. NEW GAS T.O EXIST. SIZE TO MATCH EXIST. SERVICE

INSTALL NEW GAS LINE BELOW GRADE AS PER ALL LOCAL GOVERNING CODES & PUBLIC UTILITY REQUIREMENTS

2400 # TYP FOR 3

N.

| | | |



THOMAS H. QUINLAN, P.E.
MECHANICAL ELECTRICAL CONSULTANT
12 CENTER STREET
PEARL RIVER, NEW YORK

DATES
NYSED APPROVAL - 11/1/88
FOR BID 2/21/89

REVISIONS

NYSED 50-03-08-03-6-005-001

CLIENT
ADDITION & ALTERATION TO THE
PEARL RIVER PUBLIC LIBRARY
80 FRANKLIN AVENUE / PEARL RIVER, NY

TITLE
INTERMEDIATE LEVEL PLAN
PLUMBING

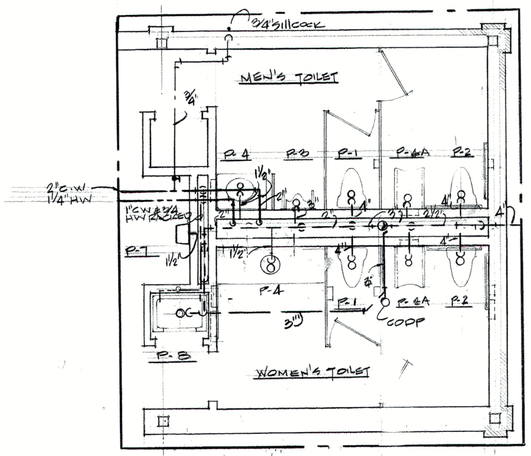
Michael Esmay Architecture • Planning • Interior Design
17 Van Houten Street, Upper Nyack, N.Y. 10960 (914) 358-0933

DRAWING
PLUMB
2

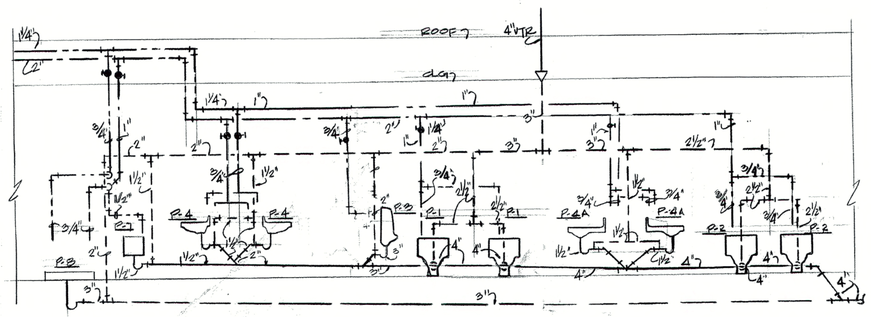
JOB NO.
8601

LEGEND

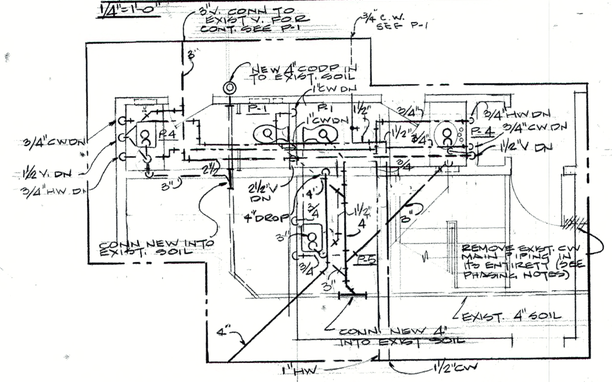
C.W	COLD WATER
H.W	HOT WATER
V.	VENT
W.	WASTE
S	SOIL
C.O.D.P	CLEAN-OUT DECK PLATE
EXIST.	EXISTING
V.T.R	VENT THRU ROOF
	COLD WATER
	HOT WATER
	VENT
	SOIL BELOW GRADE OR SLAB
	SOIL
G	GAS
	GATE VALVE
N	CHECK VALVE
	STRAINER
	EXIST. PIPE
	3/4" SILL COCK - KEY OPERATED - NON-FREEZE



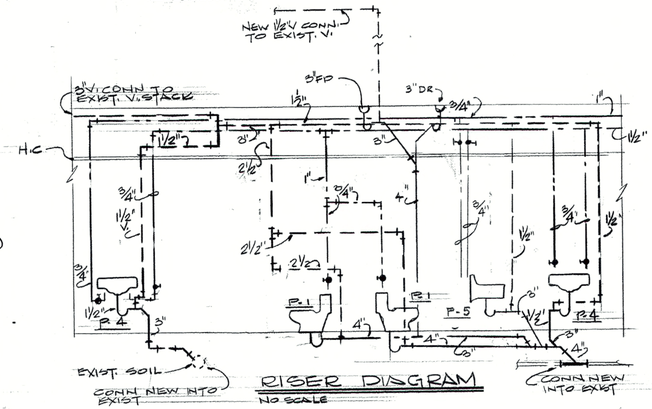
PART PLAN OF PUBLIC TOILETS
1/4"=1'-0"



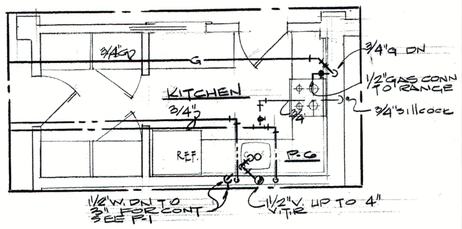
RISER DIAGRAM
NO SCALE



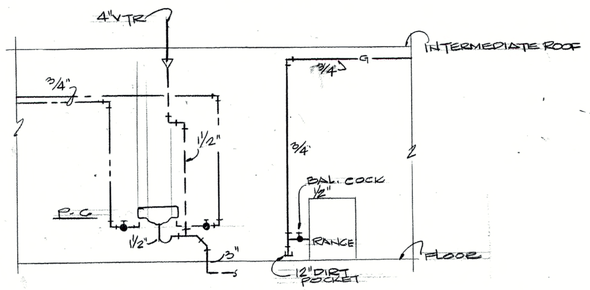
PART PLAN OF OFFICE TOILETS



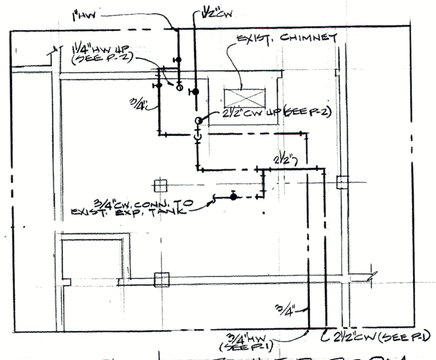
RISER DIAGRAM
NO SCALE



PART PLAN OF KITCHEN PIPING
1/4"=1'-0"



RISER DIAGRAM
NO SCALE



PART PLAN OF BOILER ROOM
1/4"=1'-0"

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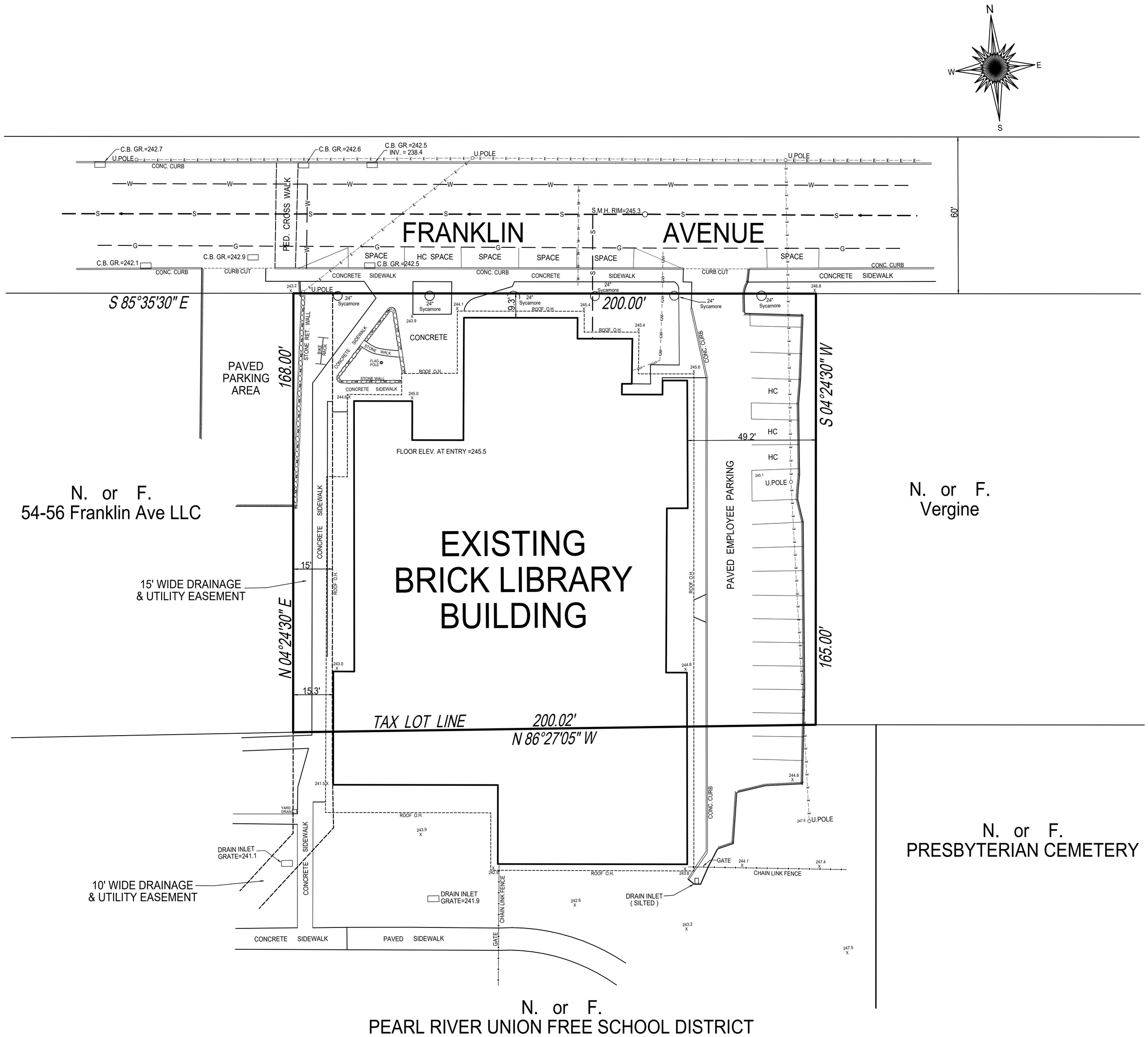
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TITLE PART PLANS, DETAILS & LEGEND - PLUMBING

DRAWING
PLUMB
3

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JOB NO. 8601



Land Survey

For

PEARL RIVER PUBLIC LIBRARY

Pearl River

Town of Orangetown
Scale: 1" = 20'

Rockland County, N.Y.
Area = 0.76 Ac.
33,300 sf

April 5, 2024

Certified to:
* Pearl River Public Library

Certifications indicated hereon signify that this survey was prepared in accordance with the existing code of practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors. Said certification shall run only to the person for whom the survey is prepared, and on behalf to the title company, governmental agency and lending institution listed hereon, and to the assignees of the lending institution. Certifications are not transferable to additional institutions or subsequent owners."

RO 8707

Tax Lot Designation
Section 68.20 Block 2 Lot 72

STATE OF NEW YORK * ROBERT E. SORACE * 049162 LICENSED LAND SURVEYOR

Lic. 49162
Robert E. Sorace, PLS
New City, NY 10956
845-638-1498