

# NE SMITH LIBRARY

## WINDHAM, NH

### DRAWING I

**SITE**

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- SD-2 SITE PLAN
- SD-3 GRADING & UTILITY PLAN
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- SD-5 CONSTRUCTION DETAILS

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- A2.3 DOOR & FRAME SCHEDULE
- A3.1 EAST WING SOUTH AND WEST ELEVATION
- A3.2 WEST WING SOUTH, NORTH, AND WEST ELEVATION
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- A3.4 BUILDING SECTION AT DOME
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- S3 SECTIONS
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- E2 LIGHTING PLAN
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- E5 POWER RISK DIAGRAM AND SCHEDULES
- E6 FIRE ALARM RISER DIAGRAM
- E7 DETAIL SHEET
- E8 RISER DIAGRAMS
- E9 SITE PLAN AND DETAILS

ARCHITECTS

STRUCTURAL ENGINEER:

MECHANICAL ENGINEER:

ELECTRICAL ENGINEER:

CIVIL ENGINEER:

DENNIS MIRE, P.A.  
THE ARCHITECTS

6971 MON ST. MANCHESTER, NH 603/625-4548

DUBOIS ENGINEERING ASSOCIATES, INC.

117 HARRISON ST. MANCHESTER, NH 603/666-0900

FITZEMEYER & TOCCI, INC.

265 FRANKLIN ST. MELROSE, MA 617/665-8460

Thompson engineering company inc.

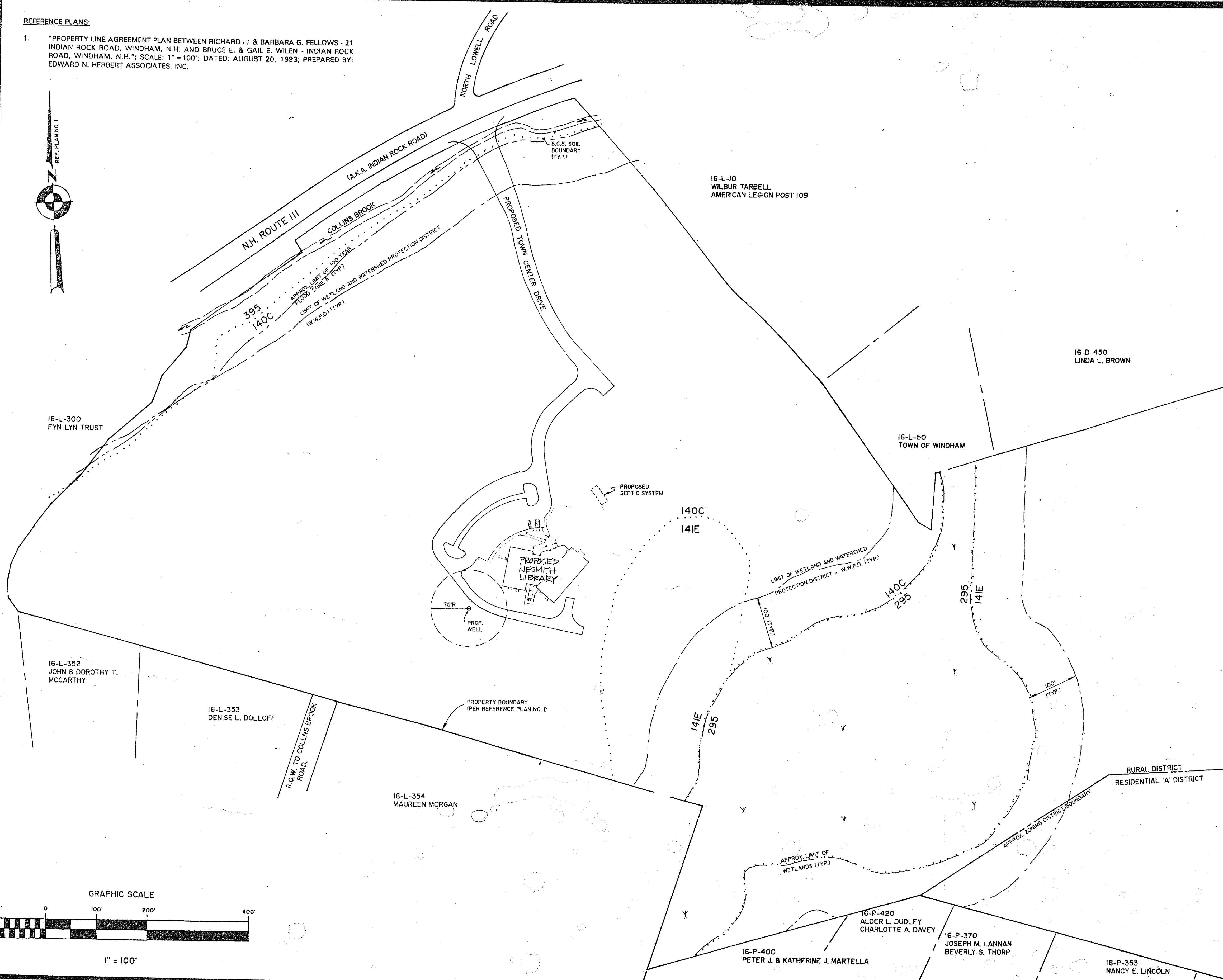
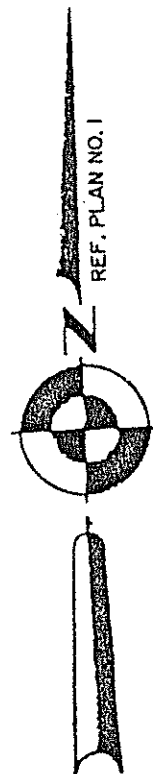
160 NO. WASHINGTON ST. BOSTON, MA 617/227-6818

KEACH NORDSTROM ASSOCIATES, INC.

P.O. BOX 10622 BEDFORD, NH 603/471-1844

**REFERENCE PLANS:**

1. "PROPERTY LINE AGREEMENT PLAN BETWEEN RICHARD W. & BARBARA G. FELLOWS - 21 INDIAN ROCK ROAD, WINDHAM, N.H. AND BRUCE E. & GAIL E. WILEN - INDIAN ROCK ROAD, WINDHAM, N.H."; SCALE: 1" = 100'; DATED: AUGUST 20, 1993; PREPARED BY: EDWARD N. HERBERT ASSOCIATES, INC.



**GENERAL NOTES:**

1. REFERENCE THIS PARCEL AS WINDHAM ASSESSOR'S MAP 16-L; LOT 100.
2. TOTAL AREA OF SUBJECT PARCEL IS 2,278,365 SQ. FT. OR 52.3 ACRES, WITH 834.21 FEET OF FRONTAGE AT N.H. ROUTE 111 (PER PLAN REFERENCE NO. 1).
3. SUBJECT PARCEL IS ZONED RURAL DISTRICT & RESIDENTIAL 'A' DISTRICT, AS SHOWN ON THIS PLAN. ALL AREAS OF THE SUBJECT PROPERTY TO BE DEVELOPED AT THIS TIME ARE LOCATED IN THE RURAL DISTRICT. APPLICABLE YARD REQUIREMENTS ARE AS FOLLOWS:  
-FRONT: 60' MIN.  
-SIDE: 30' MIN.  
-REAR: 30' MIN.
4. PROPOSED NESMITH LIBRARY WILL CONTAIN 13,084 SQ. FT., WHICH WILL RESULT IN 0.6% +/- BUILDING COVERAGE OF THE TOTAL TRACT AREA.
5. U.S.D.A.-S.C.S. SOIL MAPPING DATA SHOWN ON THIS PLAN TAKEN FROM SHEET 43 OF MOST RECENT SOIL SURVEY OF ROCKINGHAM COUNTY, NEW HAMPSHIRE, WHICH SUGGESTS THE SITE IS COMPRISED OF THE FOLLOWING SOIL TYPES:  
140C CHATFIELD-HOLLIS-CANTON COMPLEX, 3-8% SLOPES, VERY STONY.  
141E HOLLIS-ROCK OUTCROP-CHATFIELD COMPLEX, 15-60% SLOPES.  
395 CHOCURUA MUCKY PEAT  
295 GREENWOOD MUCKY PEAT
6. BOUNDARY INFORMATION SHOWN GRAPHICALLY ON THIS PLAN IS AS TAKEN FROM REFERENCE PLAN NO. 1. (SEE REF. PLAN NO. 1 FOR METES & BOUNDS DESCRIPTION OF PARCEL BOUNDARY).
7. TOPOGRAPHIC INFORMATION SHOWN ON VARIOUS DESIGN PLANS ATTACHED HERewith IS THE RESULT OF AN ON GROUND SURVEY COMPLETED BY GRANITE STATE SURVEYING, INC. DURING JUNE, 1996. ALL ELEVATIONS ARE REFERENCED TO U.S.G.S. DATUM.
8. PARKING CALCULATIONS:  
# OF SPACES REQUIRED:  
SECTION VII.D OF THE WINDHAM ZONING ORDINANCE DOES NOT PRESCRIBE MINIMUM PARKING REQUIREMENTS FOR A PUBLIC LIBRARY. HOWEVER, REPRESENTATIVES OF THE NESMITH LIBRARY HAVE INDICATED THEIR BELIEF THAT NO MORE THAN 75 SPACES WILL BE NEEDED.  
# OF SPACE PROVIDED:  
75 SPACES, INCLUDING A TOTAL OF 3 SPACES DESIGNATED AND DIMENSIONED FOR EXCLUSIVE USE BY THE HANDICAPPED.

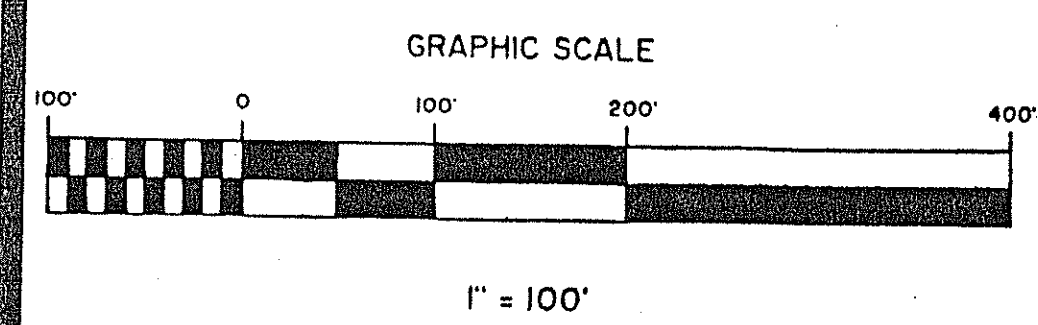
APPROVED BY THE WINDHAM PLANNING BOARD	
CHAIRMAN: _____	DATE: _____
SECRETARY: _____	DATE: _____

"WHEN THIS PLAN IS IMPLEMENTED, THE OWNER OR APPLICANT AGREES TO MAKE ALL IMPROVEMENTS AS MAY BE APPROVED BY THE PLANNING BOARD AND SHOWN ON THIS PLAN."

OWNER/APPLICANT: \_\_\_\_\_ DATE: \_\_\_\_\_

I HEREBY CERTIFY THAT THE SITE IMPROVEMENTS SHALL HAVE NO AVERSE IMPACT ON DOWNSTREAM DRAINAGE FACILITIES.

ENGINEER: *ASL* DATE: **7-26-96**



**KNA**  
KEACH-NORDSTROM ASSOCIATES, INC.  
Civil Engineering Land Planning Landscape Architecture  
175 Route 101 Bedford, NH 03110 Phone (603) 471-1844

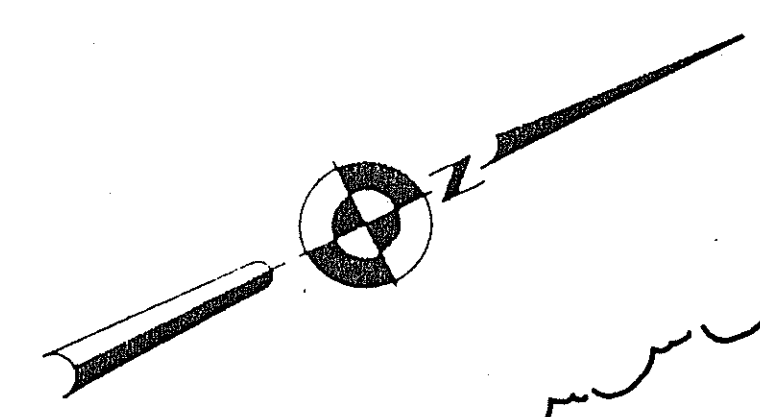
OVERVIEW PLAN PREPARED FOR:  
**TOWN COMPLEX INFRASTRUCTURE - PHASE I & NESMITH LIBRARY**  
MAP 16-L; LOT 100 - WINDHAM, NEW HAMPSHIRE

OWNER:  
TOWN OF WINDHAM  
3 NORTH LOWELL  
P.O. 120  
WINDHAM, NH 03087

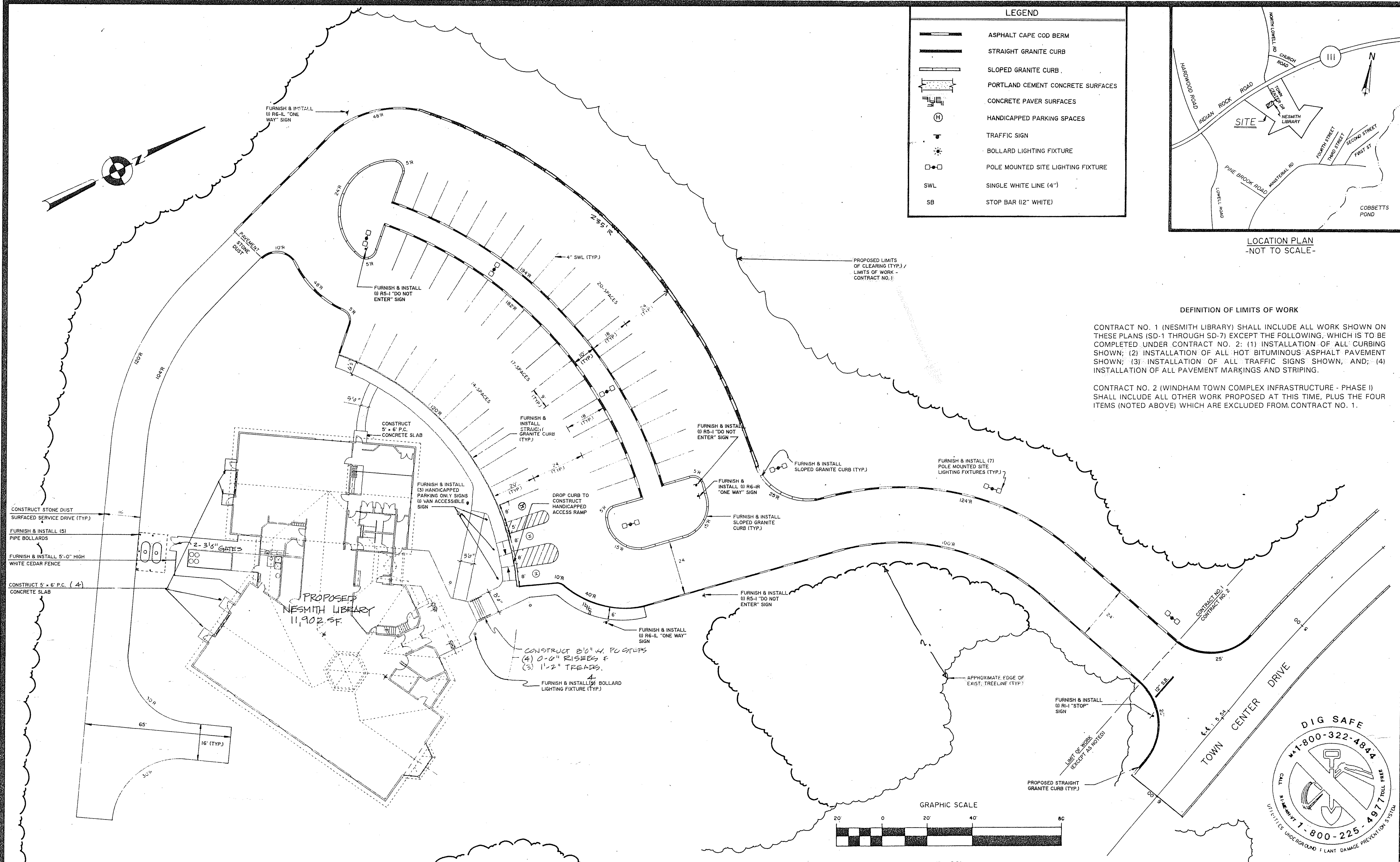
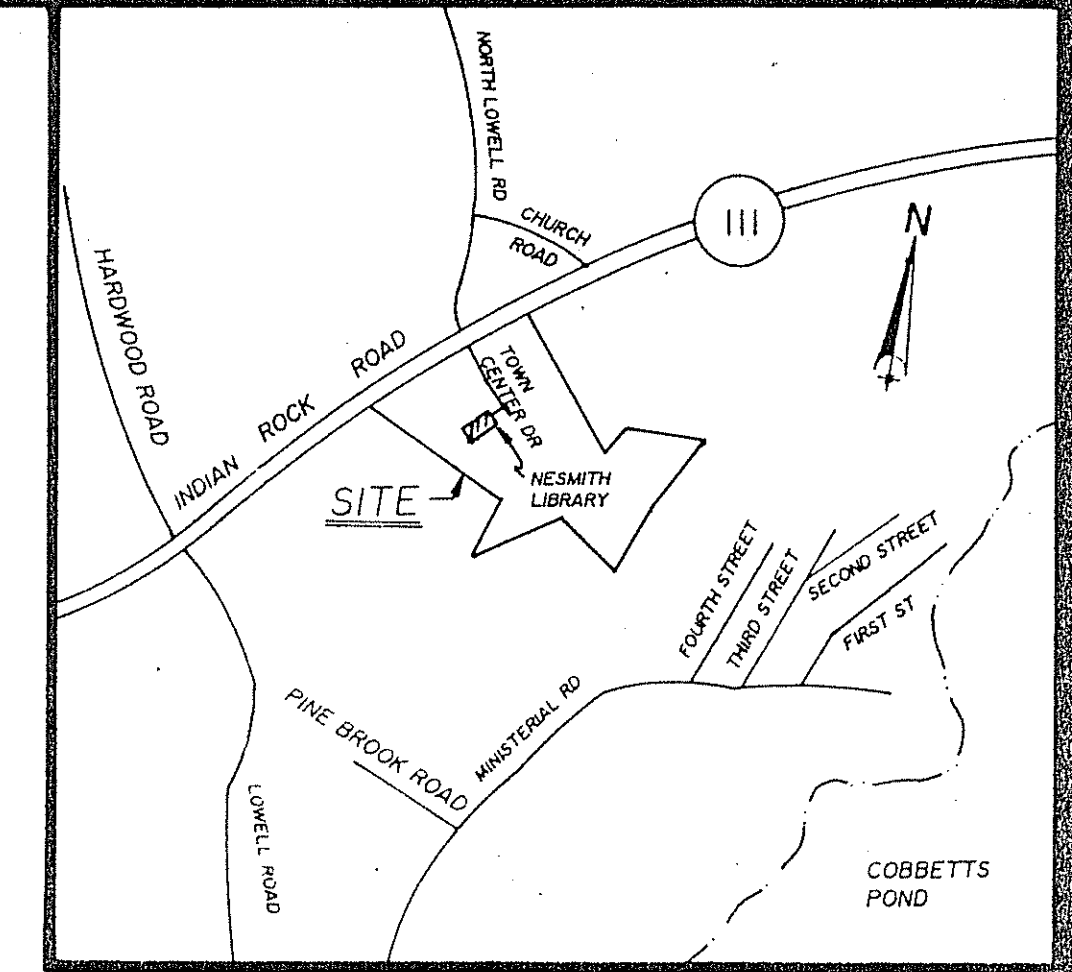
REVISIONS:	
DATE: 7-26-96	DESCRIPTION: GENERAL BLDG. PARKING
10.9.97	

PROJECT No. 96-0517-I  
DATE: JULY 15, 1996  
SCALE: 1" = 100'  
SHEET NO. 1 OF 7  
SD - 1

5th CORRECTED 882-0822 886-9591



LEGEND	
	ASPHALT CAPE COD BERM
	STRAIGHT GRANITE CURB
	SLOPED GRANITE CURB
	PORTLAND CEMENT CONCRETE SURFACES
	CONCRETE PAVER SURFACES
	HANDICAPPED PARKING SPACES
	TRAFFIC SIGN
	BOLLARD LIGHTING FIXTURE
	POLE MOUNTED SITE LIGHTING FIXTURE
	SINGLE WHITE LINE (4")
	STOP BAR (12" WHITE)



CONSTRUCT STONE DUST SURFACED SERVICE DRIVE (TYP.)

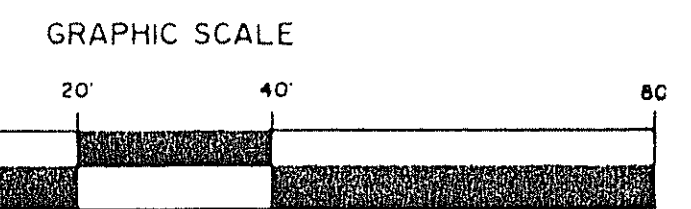
FURNISH & INSTALL (5) PIPE BOLLARDS

FURNISH & INSTALL 5'-0" HIGH WHITE CEDAR FENCE

CONSTRUCT 5' x 6' P.C. (A) CONCRETE SLAB

PROPOSED NESMITH LIBRARY  
11,902 SF.

CONSTRUCT 8\"/>



**DEFINITION OF LIMITS OF WORK**

CONTRACT NO. 1 (NESMITH LIBRARY) SHALL INCLUDE ALL WORK SHOWN ON THESE PLANS (SD-1 THROUGH SD-7) EXCEPT THE FOLLOWING, WHICH IS TO BE COMPLETED UNDER CONTRACT NO. 2: (1) INSTALLATION OF ALL CURBING SHOWN; (2) INSTALLATION OF ALL HOT BITUMINOUS ASPHALT PAVEMENT SHOWN; (3) INSTALLATION OF ALL TRAFFIC SIGNS SHOWN, AND; (4) INSTALLATION OF ALL PAVEMENT MARKINGS AND STRIPING.

CONTRACT NO. 2 (WINDHAM TOWN COMPLEX INFRASTRUCTURE - PHASE I) SHALL INCLUDE ALL OTHER WORK PROPOSED AT THIS TIME, PLUS THE FOUR ITEMS (NOTED ABOVE) WHICH ARE EXCLUDED FROM CONTRACT NO. 1.



PROJECT NO 96-0517-I

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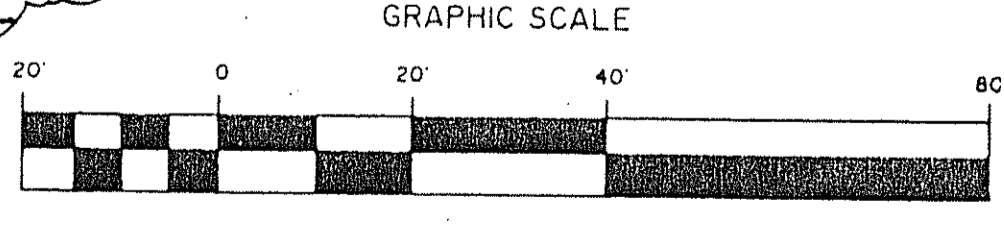
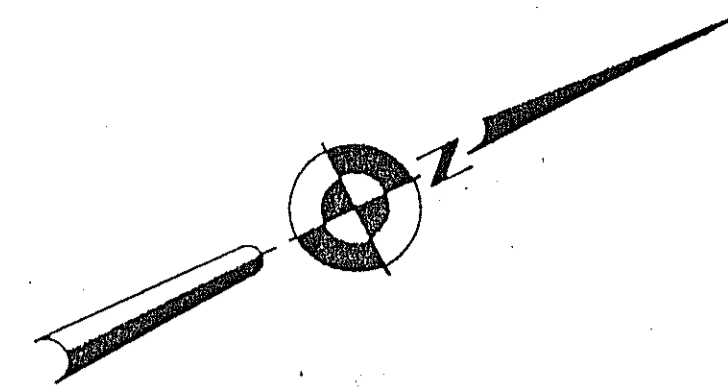
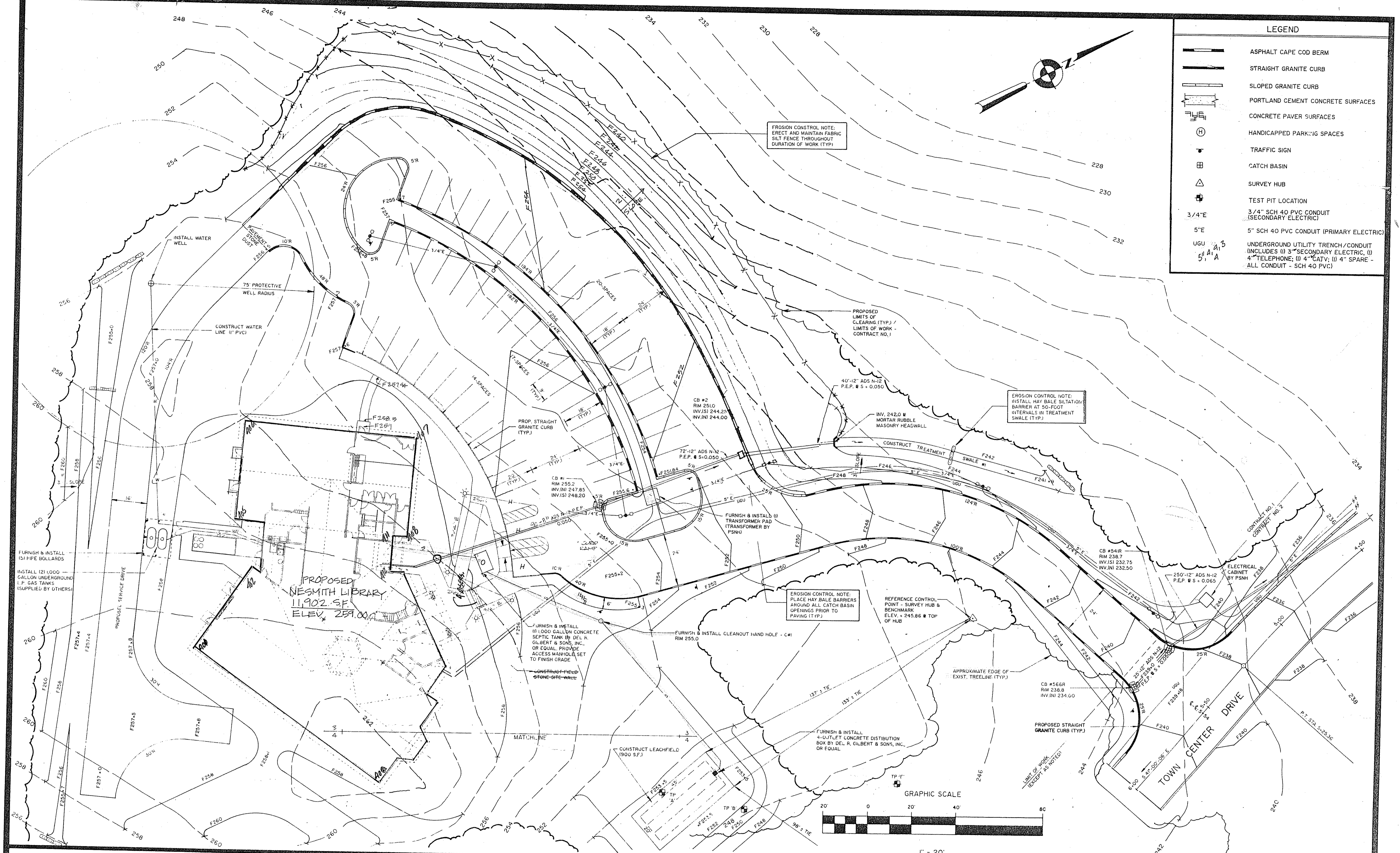
SITE PLAN PREPARED FOR:  
**NESMITH LIBRARY**  
MAP 16-L; LOT 100 - WINDHAM, NEW HAMPSHIRE

OWNER:  
TOWN OF WINDHAM  
3 NORTH LOWELL ROAD  
P.O. BOX 120  
WINDHAM, NH 03087

REVISIONS:  
DATE: 7-26-96  
DESCRIPTION: ISSUED FOR BID  
4-27-97 BUILDING FOOTPRINT  
PAVERS  
PARKING

DATE: JULY 15, 1996  
SCALE: 1" = 20'  
SHEET NO. 2 OF 7  
SD - 2

LEGEND	
	ASPHALT CAPE COD BERM
	STRAIGHT GRANITE CURB
	SLOPED GRANITE CURB
	PORTLAND CEMENT CONCRETE SURFACES
	CONCRETE PAVER SURFACES
	HANDICAPPED PARKING SPACES
	TRAFFIC SIGN
	CATCH BASIN
	SURVEY HUB
	TEST PIT LOCATION
	3/4" SCH 40 PVC CONDUIT (SECONDARY ELECTRIC)
	5" SCH 40 PVC CONDUIT (PRIMARY ELECTRIC)
	UNDERGROUND UTILITY TRENCH/CONDUIT (INCLUDES (1) 3" SECONDARY ELECTRIC, (1) 4" TELEPHONE, (1) 4" CATV, (1) 4" SPARE - ALL CONDUIT - SCH 40 PVC)



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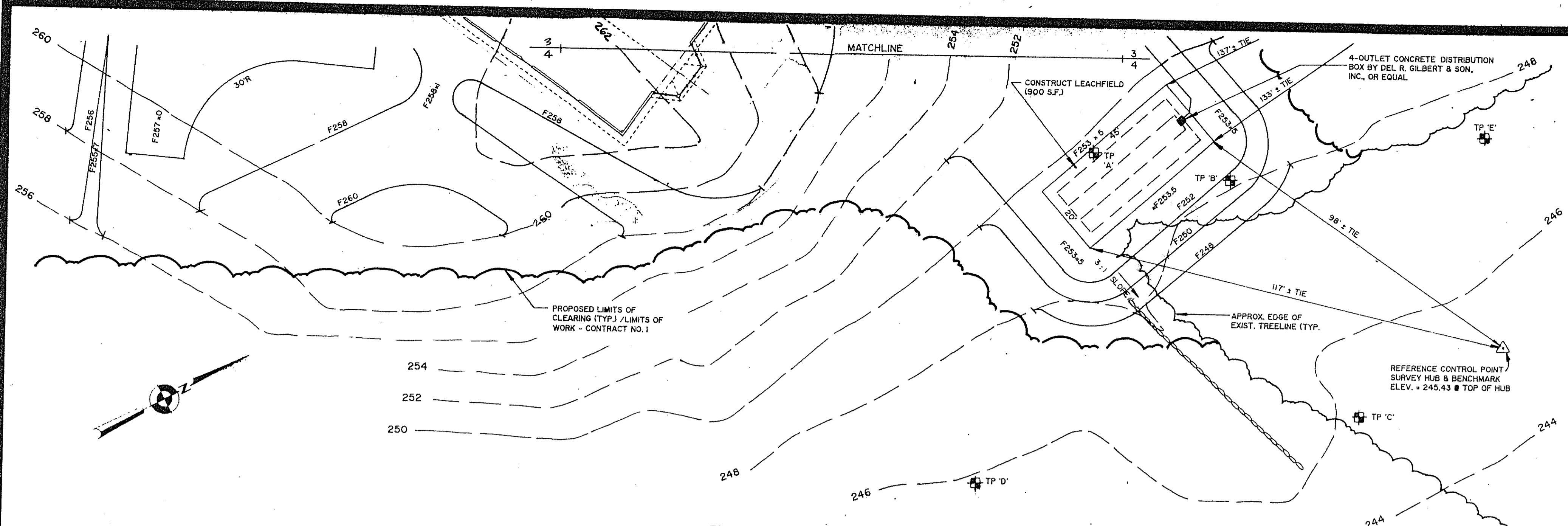
GRADING & UTILITY PLAN PREPARED FOR:  
**NESMITH LIBRARY**  
 MAP 16-L; LOT 100 - WINDHAM, NEW HAMPSHIRE

OWNER:  
 TOWN OF WINDHAM  
 3 NORTH LOWELL ROAD  
 P.O. BOX 120  
 WINDHAM, NH 03067

REVISIONS	
DATE:	DESCRIPTION:
7-26-96	ISSUED FOR BID
8-25-96	PARKING
	ELITE
	BLDG EQUIPMENT

DATE: JULY 15, 1996  
 SCALE: 1" = 20'  
 SHEET NO. 3 OF 7  
 SD - 3

PROJECT NO. 96-0517-1



TEST PIT DATA:

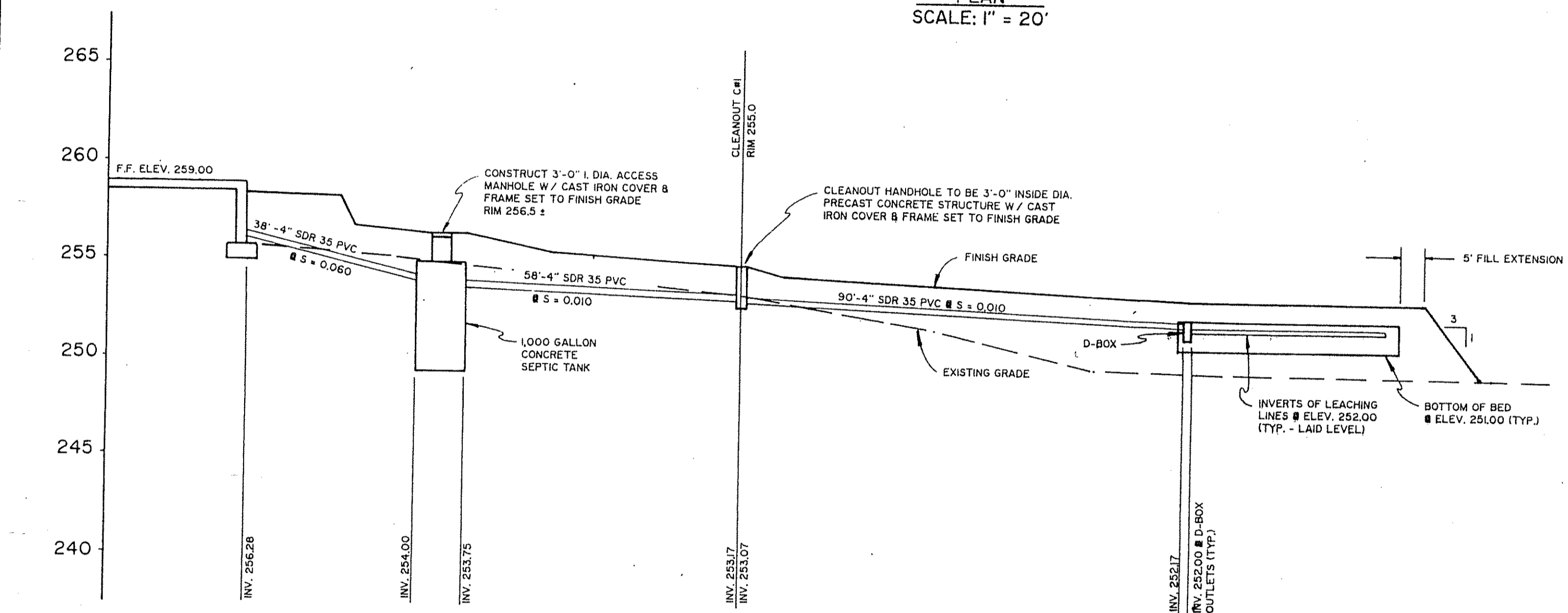
PROJECT NAME & NUMBER: Nesmith Library #96-0517-1 TEST PIT NO. 'A'  
 PROJECT LOCATION: Windham, New Hampshire DATE: July 19, 1996  
 EVALUATOR: Steven B. Keach, P.E. FIELD SHEET: 1 OF 5  
 EXCAVATION EQUIPMENT MAKE: CAT MODEL: 412 PUMP: 14"

DEPTH (FOOT)	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT	REMARKS
0'-0"	A Topsoil & Forest Litter.	E		
1'-0"	B Yellowish Brown (10YR 5/6), Friable, Granular, Fine Sandy Loam	E TR-A		
1'-10"	C Light Gray (10YR 7/2), Friable, Granular, Fine Sandy Loam	E TR-A		
4'-10"	Bedrock			

TEST PIT DATA:

PROJECT NAME & NUMBER: Nesmith Library #96-0517-1 TEST PIT NO. 'B'  
 PROJECT LOCATION: Windham, New Hampshire DATE: July 19, 1996  
 EVALUATOR: Steven B. Keach, P.E. FIELD SHEET: 2 OF 5  
 EXCAVATION EQUIPMENT MAKE: CAT MODEL: 412 PUMP: 14"

DEPTH (FOOT)	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT	REMARKS
0'-0"	A Topsoil & Forest Litter	E		
1'-0"	B Yellowish Brown (10YR 5/6), Friable, Granular, Fine Sandy Loam	E TR-A		
1'-10"	C Light Gray (10YR 7/2), Friable, Granular, Fine Sandy Sand	E TR-A		
4'-10"	Bedrock			



TEST PIT DATA:

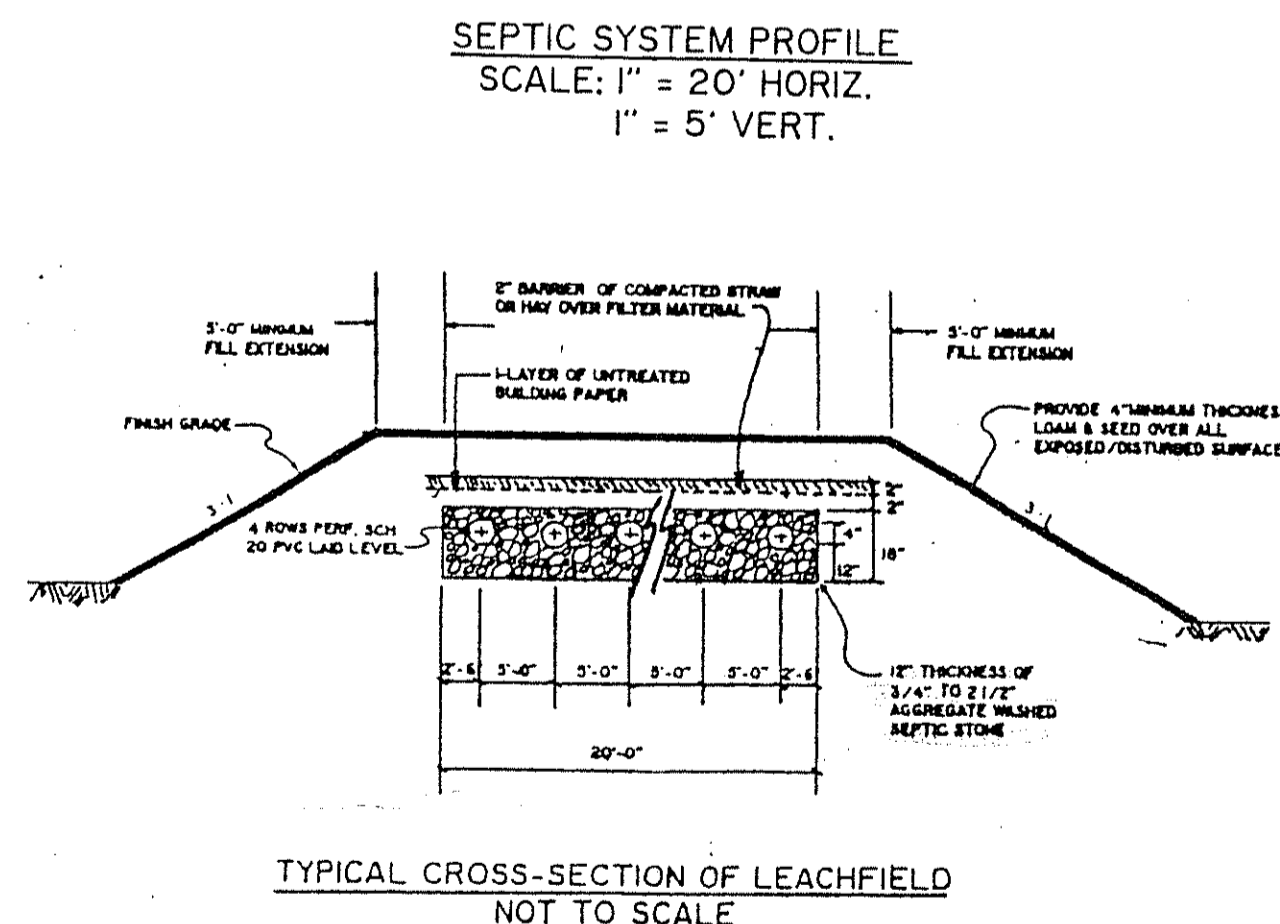
PROJECT NAME & NUMBER: Nesmith Library #96-0517-1 TEST PIT NO. 'C'  
 PROJECT LOCATION: Windham, New Hampshire DATE: July 19, 1996  
 EVALUATOR: Steven B. Keach, P.E. FIELD SHEET: 3 OF 5  
 EXCAVATION EQUIPMENT MAKE: CAT MODEL: 412 PUMP: 14"

DEPTH (FOOT)	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT	REMARKS
0'-0"	A Topsoil & Forest Litter	E		
1'-0"	B Dark Yellowish Brown (10YR 4/6), Friable, Granular, Fine Sandy Loam	E TR-A		
1'-10"	C Light Gray (10YR 7/2), Friable, Granular, Fine Sandy Sand	E TR-A		
4'-3"	Bedrock			

TEST PIT DATA:

PROJECT NAME & NUMBER: Nesmith Library #96-0517-1 TEST PIT NO. 'D'  
 PROJECT LOCATION: Windham, New Hampshire DATE: July 19, 1996  
 EVALUATOR: Steven B. Keach, P.E. FIELD SHEET: 4 OF 5  
 EXCAVATION EQUIPMENT MAKE: CAT MODEL: 412 PUMP: 14"

DEPTH (FOOT)	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT	REMARKS
0'-0"	A Topsoil & Forest Litter	E		
1'-0"	B Dark Yellowish Brown (10YR 3/4), Friable, Granular, Fine Sandy Loam	E TR-A		
1'-10"	C Yellowish Brown (10YR 5/6), Friable, Granular, Fine Sandy Loam	E TR-A		
3'-3"	Bedrock			



**SEPTIC SYSTEM DESIGN CALCULATIONS**

DESIGN FLOW: (PROPOSED USE IS A 13,084 S.F. PUBLIC LIBRARY)  
 100 TRANSIENTS @ 5 GPD = 500 GPD  
 5 EMPLOYEES @ 15 GPD = 75 GPD  
 TOTAL DESIGN FLOW = 575 GPD

SEPTIC TANK SIZING CALCULATIONS:  
 SEPTIC TANK VOLUME REQUIRED = 1.5(575 GPD) = 863 GAL.  
 SEPTIC TANK VOLUME PROVIDED = (1) 1,000 GALLON TANK

LEACHFIELD SIZING CALCULATIONS:  
 PERCOLATION RATE = 6 MIN./INCH @ TP 'A'  
 LEACHING AREA REQUIRED = (575 GPD)(155 S.F./100 GPD) = 892 S.F.  
 LEACHING AREA PROVIDED = 900 S.F. (45' X 20')

DESIGN INTENT: BOTTOM OF LEACHFIELD TO BE SET NO LOWER THAN 14-INCHES ABOVE HIGHEST EXISTING GRADE IN ORDER TO MAINTAIN THE REQUIRED 72-INCH SEPARATION TO LEDGE

N.H.D.E.S. SEWAGE LOADING CALCULATIONS:  
 -PREVAILING SOIL TYPE IS CHATFIELD-HOLLIS-CANTON COMPLEX (N.H.D.E.S. GROUP 4 SOIL) WITH 8-15% SLOPES. THEREFORE,  
 N.H.D.E.S. LOT SIZING FACTOR = 1.60 PER ENV.-WS 1005.02 (a)(1).  
 -LOT AREA REQUIRED = [(575 GPD)/(2,000 GPD/AC)](1.60) = 0.46 AC.  
 -LOT AREA PROVIDED = 52.3 AC. +/-  
 -NET LOT AREA = 37.0 AC. +/- > 0.46 AC. O.K.

- DESIGN / CONSTRUCTION NOTES:**
- ALL PIPE PENETRATIONS TO SEPTIC TANKS, CLEANOUTS, AND DISTRIBUTION BOX TO BE SEALED WITH NON-SHRINK HYDRAULIC CEMENT SO AS TO BE WATER TIGHT. (NOT ROOF TAR)
  - NO OPEN WATER, HYDRIC SOILS, LEDGE OUTCROPPINGS, OR WATER WELLS WITHIN 75-FEET OF PROPOSED SEPTIC SYSTEM.
  - REPLACEMENT SYSTEM TO BE RECONSTRUCTED IN AREA OF PROPOSED SYSTEM WHEN AND IF NECESSARY.
  - NO FOUNDATION DRAINS WILL BE USED IN THE CONSTRUCTION OF THE PROPOSED BUILDING.
  - ALL AREAS OF THIS SITE (WITHIN THE LIMITS OF THIS PLAN) ARE IDENTIFIED AS CONSISTING OF CHATFIELD-HOLLIS-CANTON COMPLEX SOILS, (140C), WITH 8-15% SLOPES BY THE U.S.D.A. - S.C.S. ON SHEET 43 OF THE MOST RECENT SOIL SURVEY OF ROCKINGHAM COUNTY - NEW HAMPSHIRE.

TEST PIT DATA:

PROJECT NAME & NUMBER: Nesmith Library #96-0517-1 TEST PIT NO. 'E'  
 PROJECT LOCATION: Windham, New Hampshire DATE: July 19, 1996  
 EVALUATOR: Steven B. Keach, P.E. FIELD SHEET: 5 OF 5  
 EXCAVATION EQUIPMENT MAKE: CAT MODEL: 412 PUMP: 14"

DEPTH (FOOT)	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT	REMARKS
0'-0"	A Topsoil & Forest Litter	E		
1'-0"	B Dark Reddish Brown (5YR 3/4), Friable, Granular, Stony Fine Sandy Loam	E C-A/B		
1'-10"	C Light Gray (10YR 7/2), Friable, Granular, Fine Sandy Loam	E F-A		
3'-6"	Bedrock			

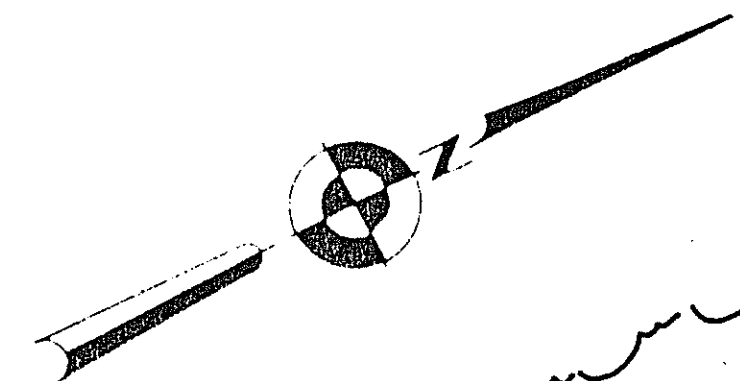
**KNA**  
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 175 Route 101 Bedford, NH 03110 Phone (603) 471-1844

GRADING & UTILITY PLAN AND SEPTIC SYSTEM CONSTRUCTION DETAILS PREPARED FOR:  
**NE SMITH LIBRARY**  
 MAP 16-L; LOT 100 - WINDHAM, NEW HAMPSHIRE

OWNER:  
 TOWN OF WINDHAM  
 3 NORTH LOWELL ROAD  
 P.O. BOX 120  
 WINDHAM, NH 03087

REVISIONS:  
 DATE: 7-26-96 DESCRIPTION: ISSUED FOR BID  
 10-9-96 BUILDING FOOTPRINT

DATE: JULY 15, 1996  
 SCALE: AS NOTED  
 SHEET NO. 4 OF 7  
 SD - 4



**PLANT LIST:**

**TREES:**

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE
Ar	1	Acer Saccharum	Sugar Maple	2-2 1/2" Cal.
Bp	3	Betula Papyrifera	Paper Birch	2-2 1/2" Cal.
Gt	5	Gleditsia Triacanthos	Shademaster Honey Locust	2-2 1/2" Cal.
Ma	3	Malus 'Adams Semi Dwarf'	Flowering Crabapple	2-2 1/2" Cal.
Pp	2	Picea Pugnens Glauca	Blue Colorado Spruce	8-10'
To	7	Thuja Occidentalis	Eastern Arborvitae	4-5'

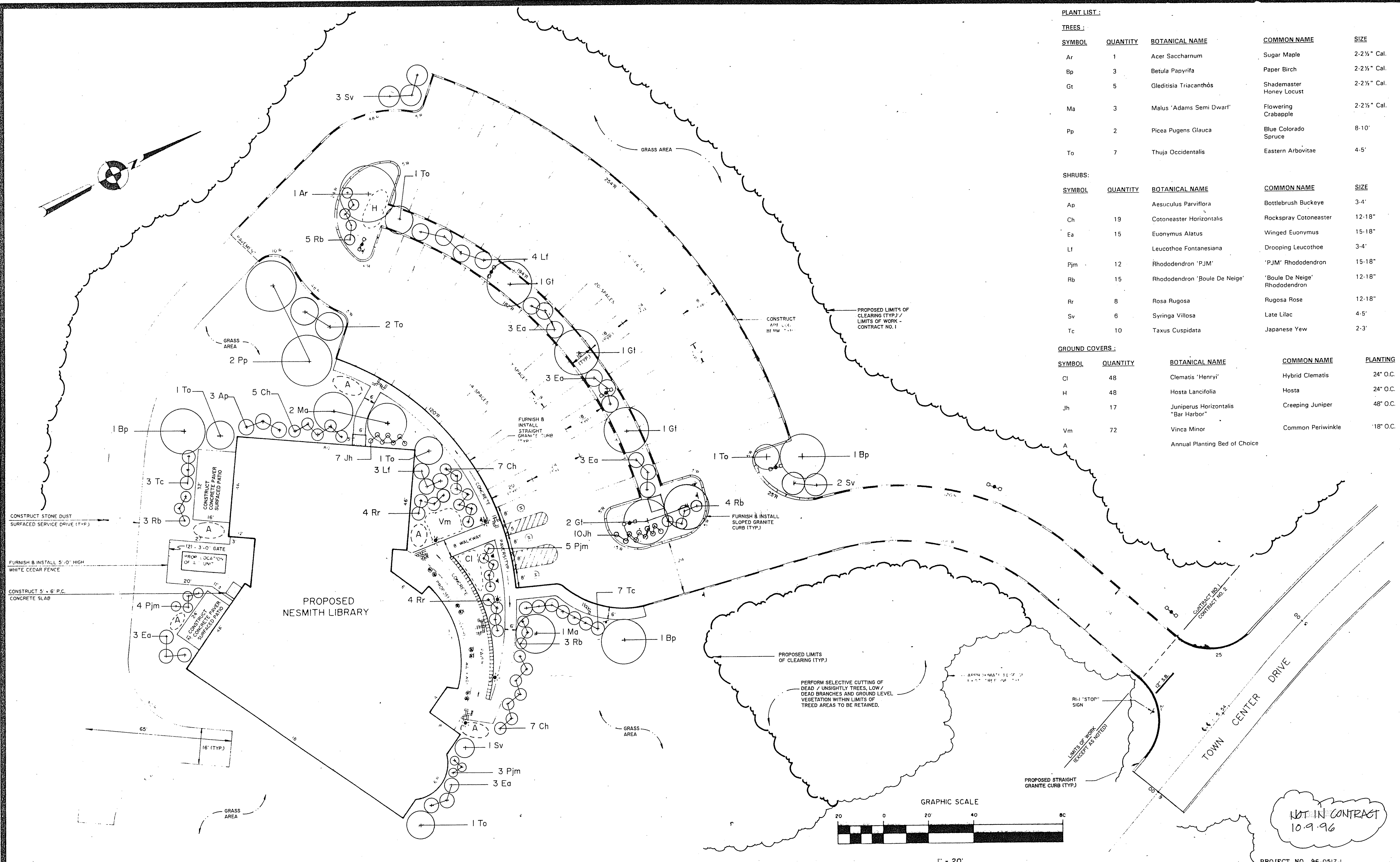
**SHRUBS:**

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE
Ap		Aesculus Parviflora	Bottlebrush Buckeye	3-4'
Ch	19	Cotoneaster Horizontalis	Rockspray Cotoneaster	12-18"
Ea	15	Euonymus Alatus	Winged Euonymus	15-18"
Lf		Leucothoe Fontanesiana	Drooping Leucothoe	3-4'
Pjm	12	Rhododendron 'PJM'	'PJM' Rhododendron	15-18"
Rb	15	Rhododendron 'Boule De Neige'	'Boule De Neige' Rhododendron	12-18"
Rr	8	Rosa Rugosa	Rugosa Rose	12-18"
Sv	6	Syringa Villosa	Late Lilac	4-5'
Tc	10	Taxus Cuspidata	Japanese Yew	2-3'

**GROUND COVERS:**

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	PLANTING
Cl	48	Clematis 'Henry'	Hybrid Clematis	24" O.C.
H	48	Hosta Lancifolia	Hosta	24" O.C.
Jh	17	Juniperus Horizontalis 'Bar Harbor'	Creeping Juniper	48" O.C.
Vm	72	Vinca Minor	Common Periwinkle	18" O.C.

Annual Planting Bed of Choice



CONSTRUCT STONE DUST SURFACED SERVICE DRIVE (TYP.)

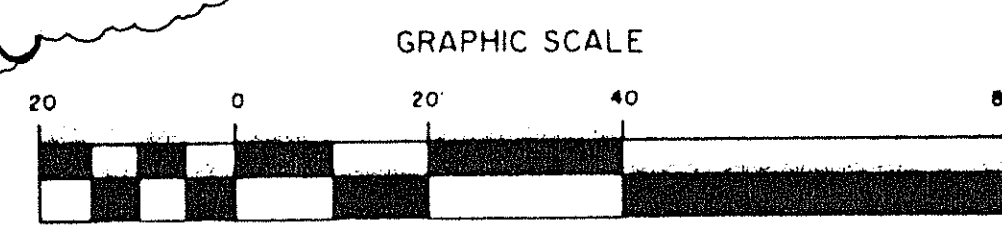
FURNISH & INSTALL 5'-0" HIGH WHITE CEDAR FENCE

CONSTRUCT 5' x 6' P.C. CONCRETE SLAB

CONSTRUCT 12'-3'-0" GATE

CONSTRUCT 16' x 16' CONCRETE PAVEMENT SURFACED PATIO

PERFORM SELECTIVE CUTTING OF DEAD / UNSIGHTLY TREES, LOW / DEAD BRANCHES AND GROUND LEVEL VEGETATION WITHIN LIMITS OF TREENED AREAS TO BE RETAINED.



NOT IN CONTRACT 10.9.96

PROJECT NO 96-0517-1

**KNA**  
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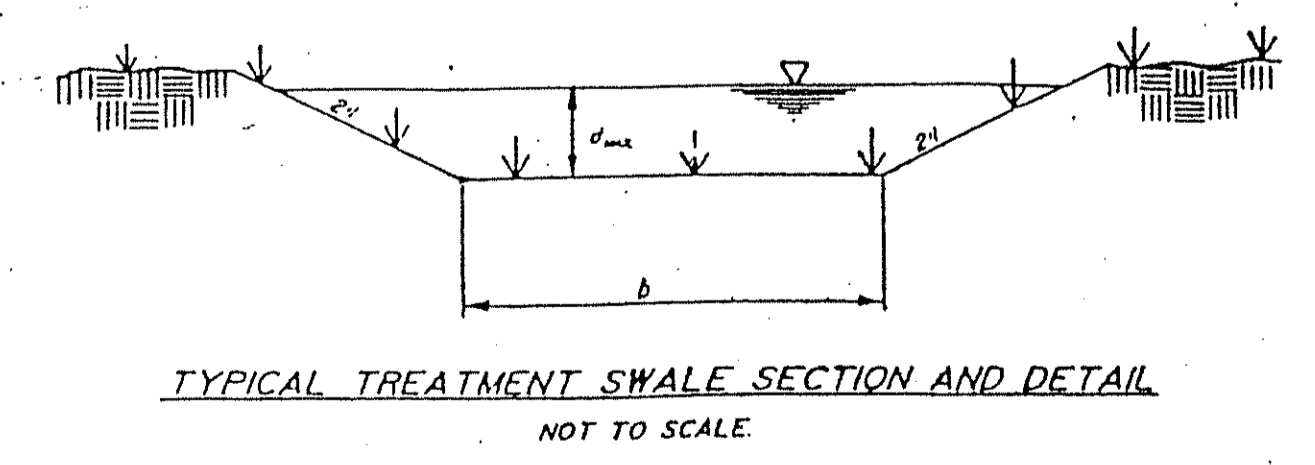
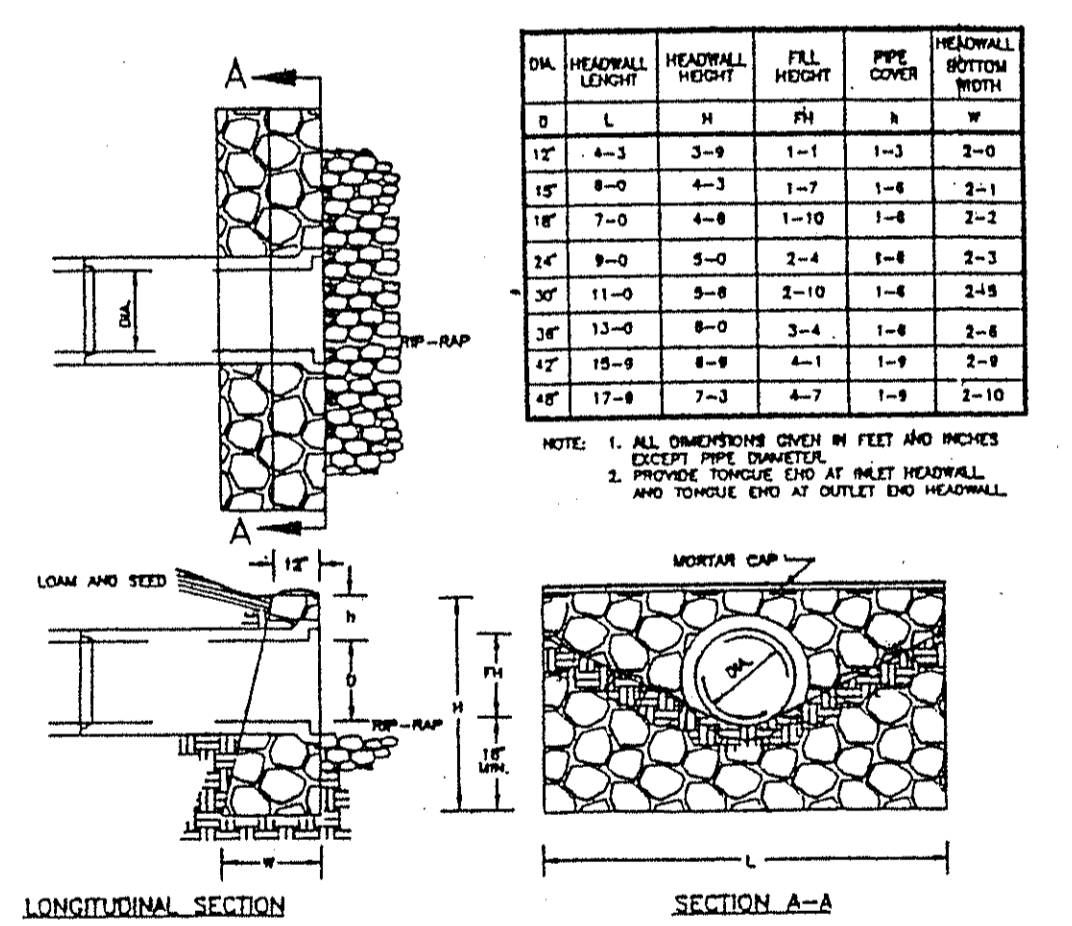
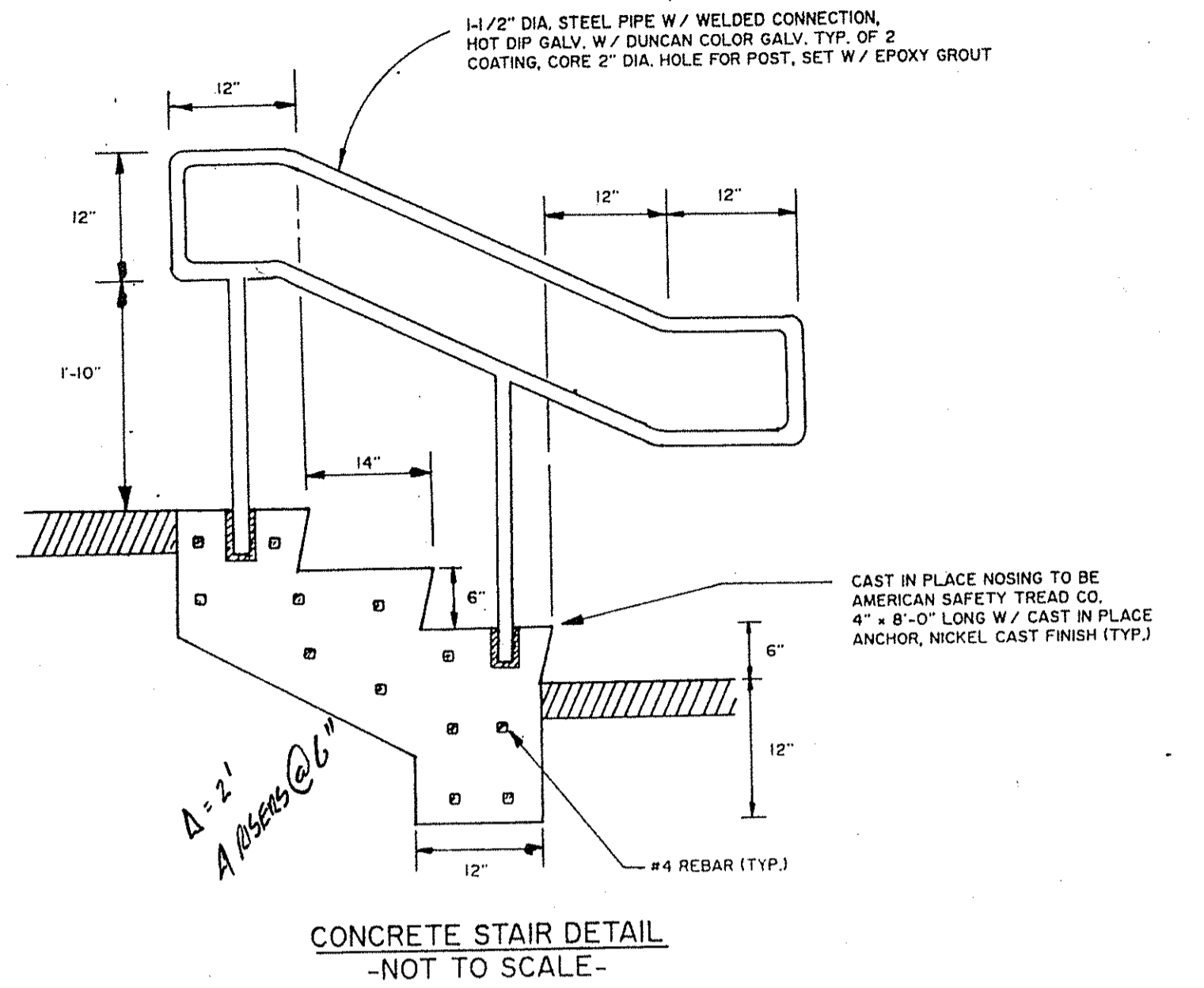
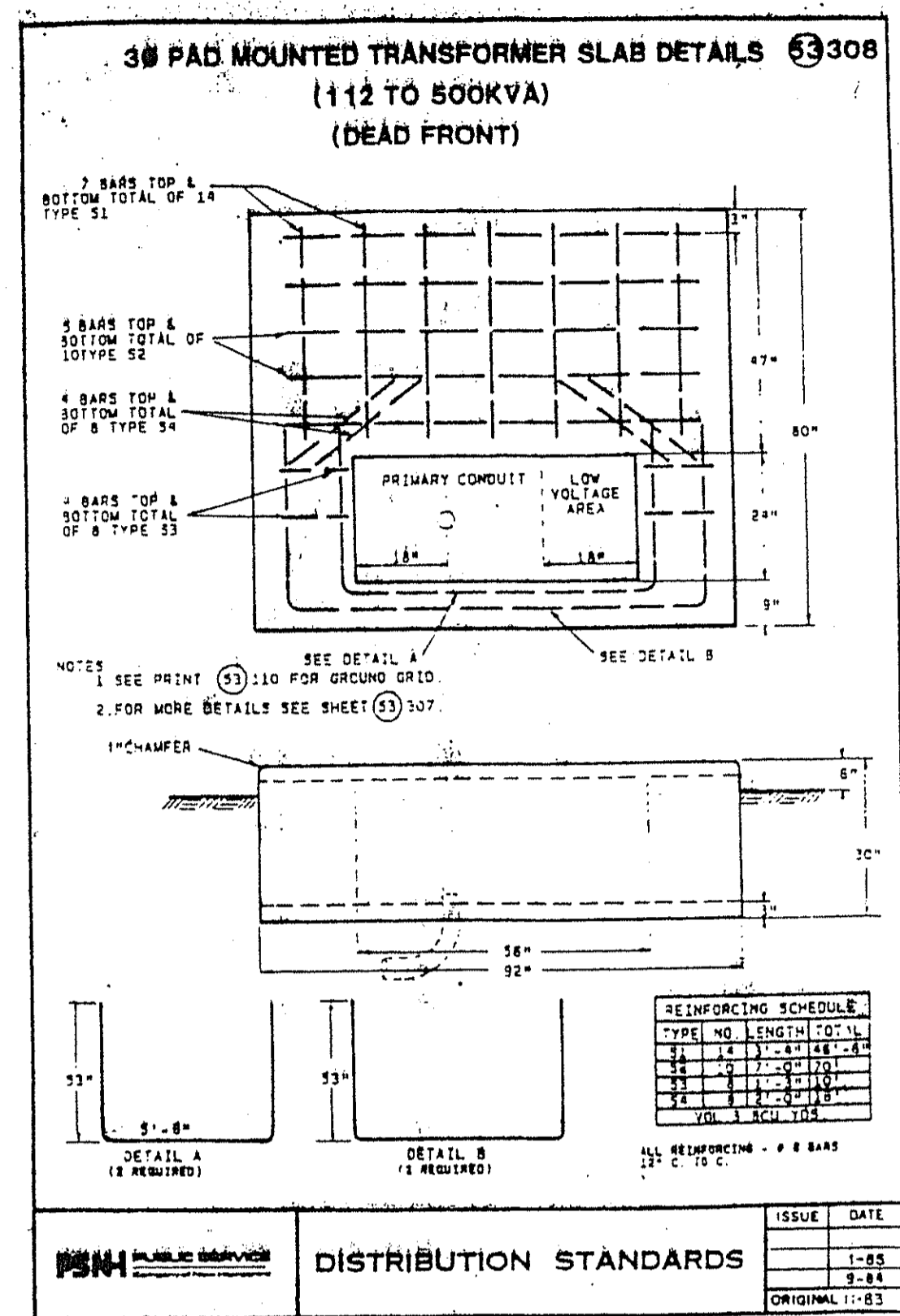
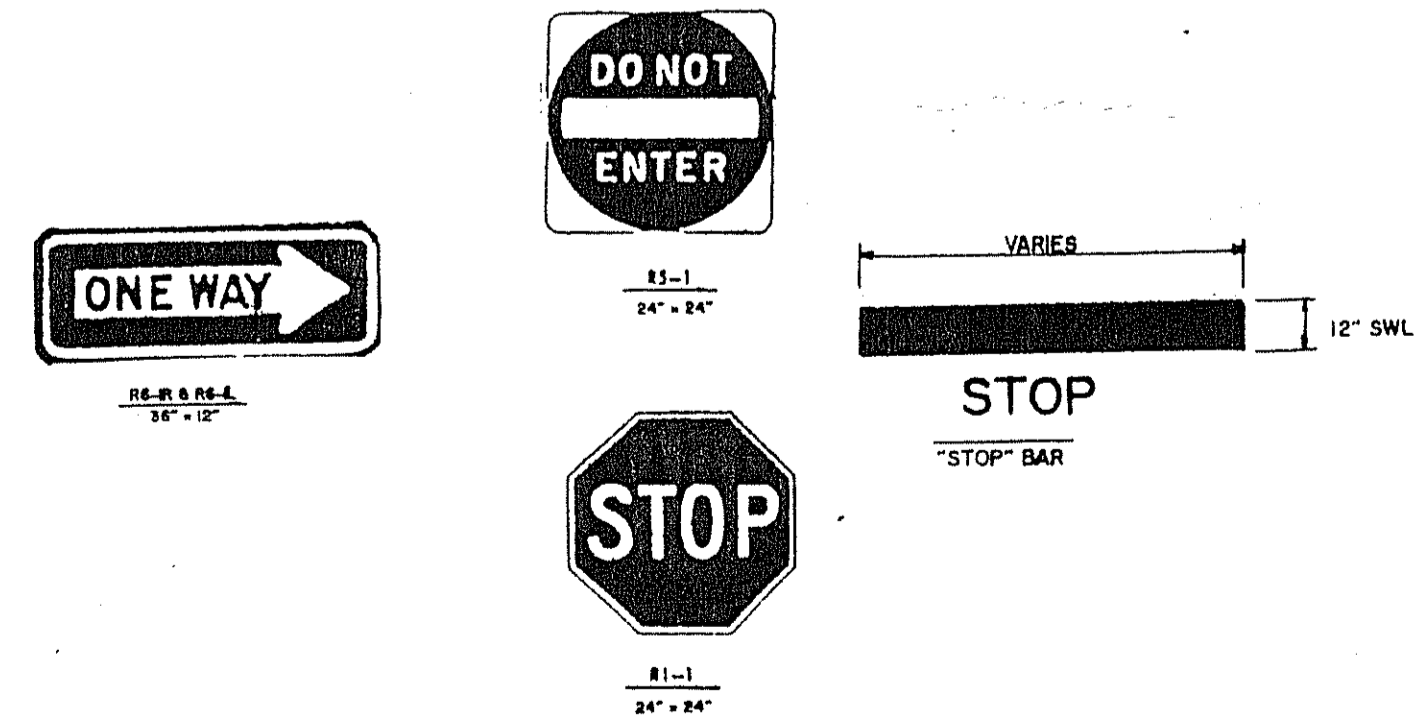
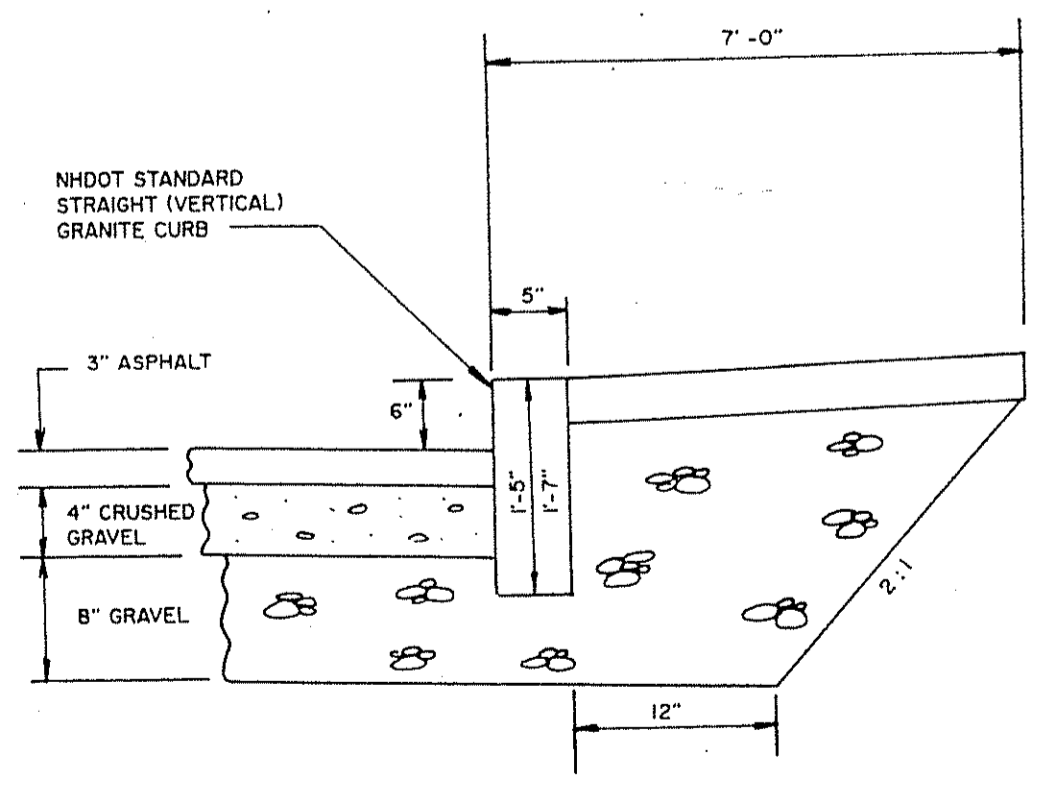
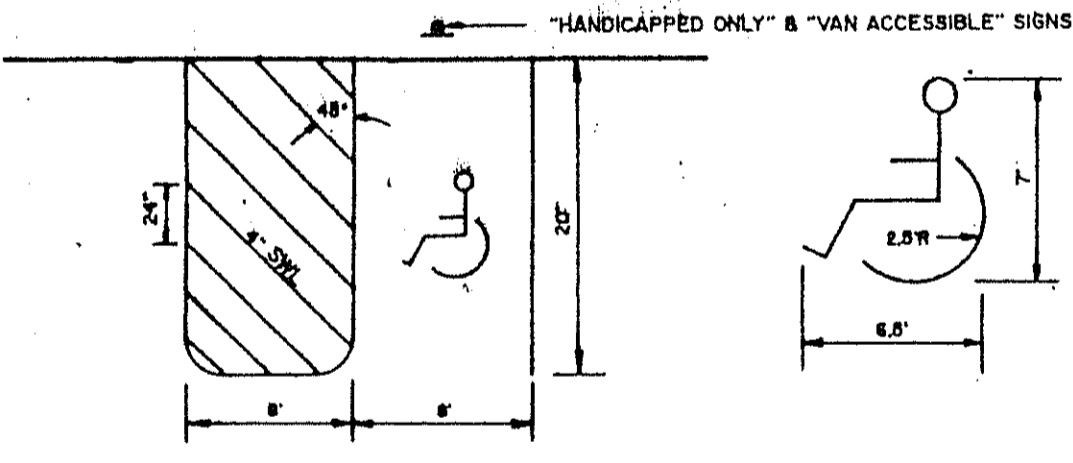
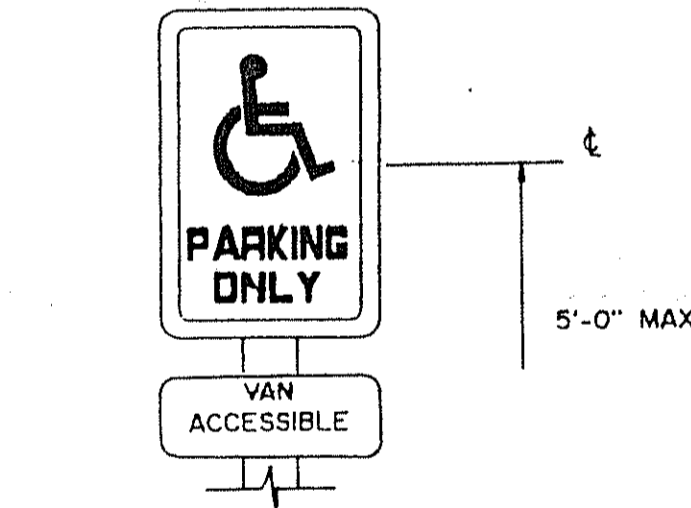
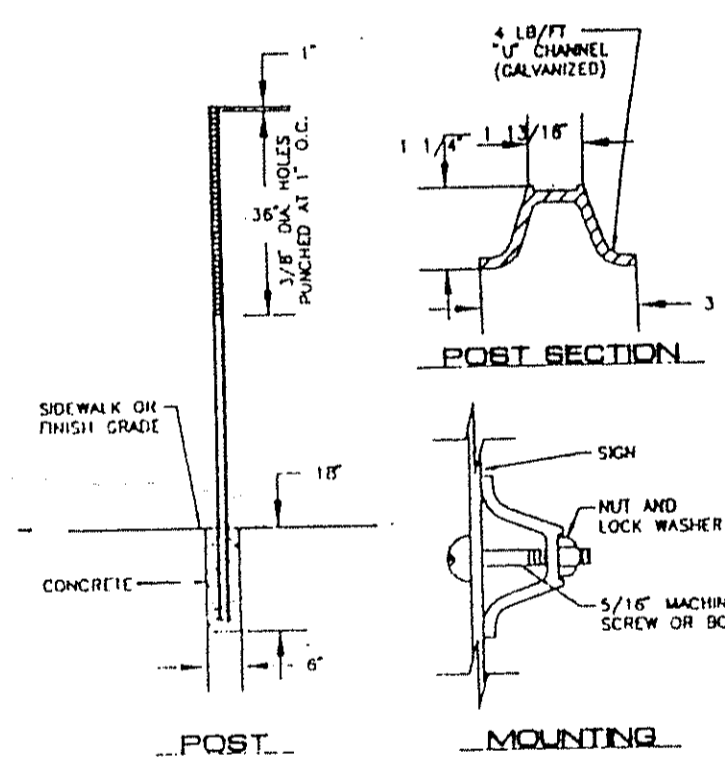
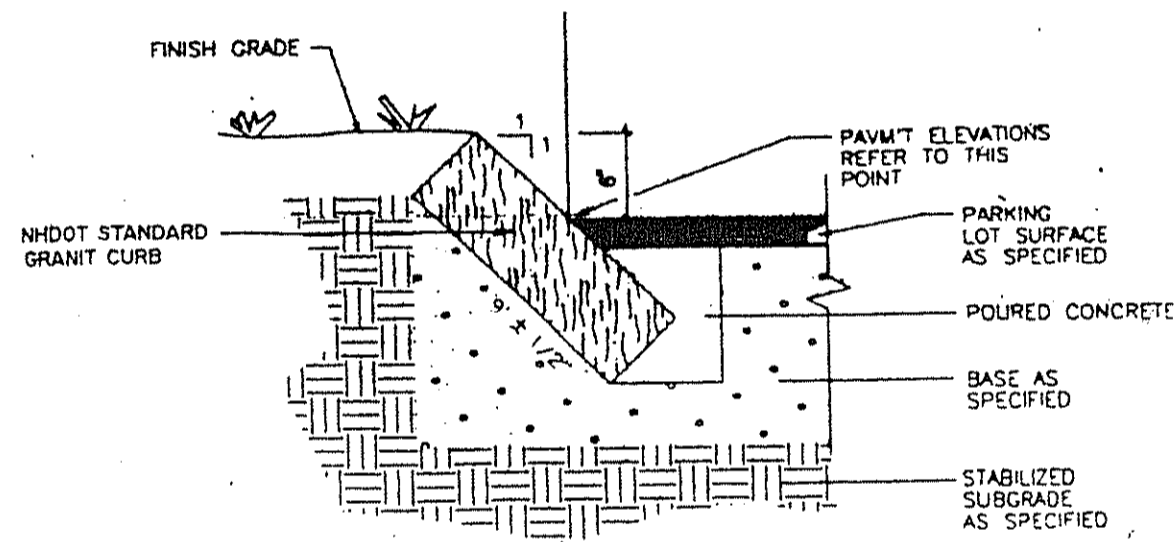
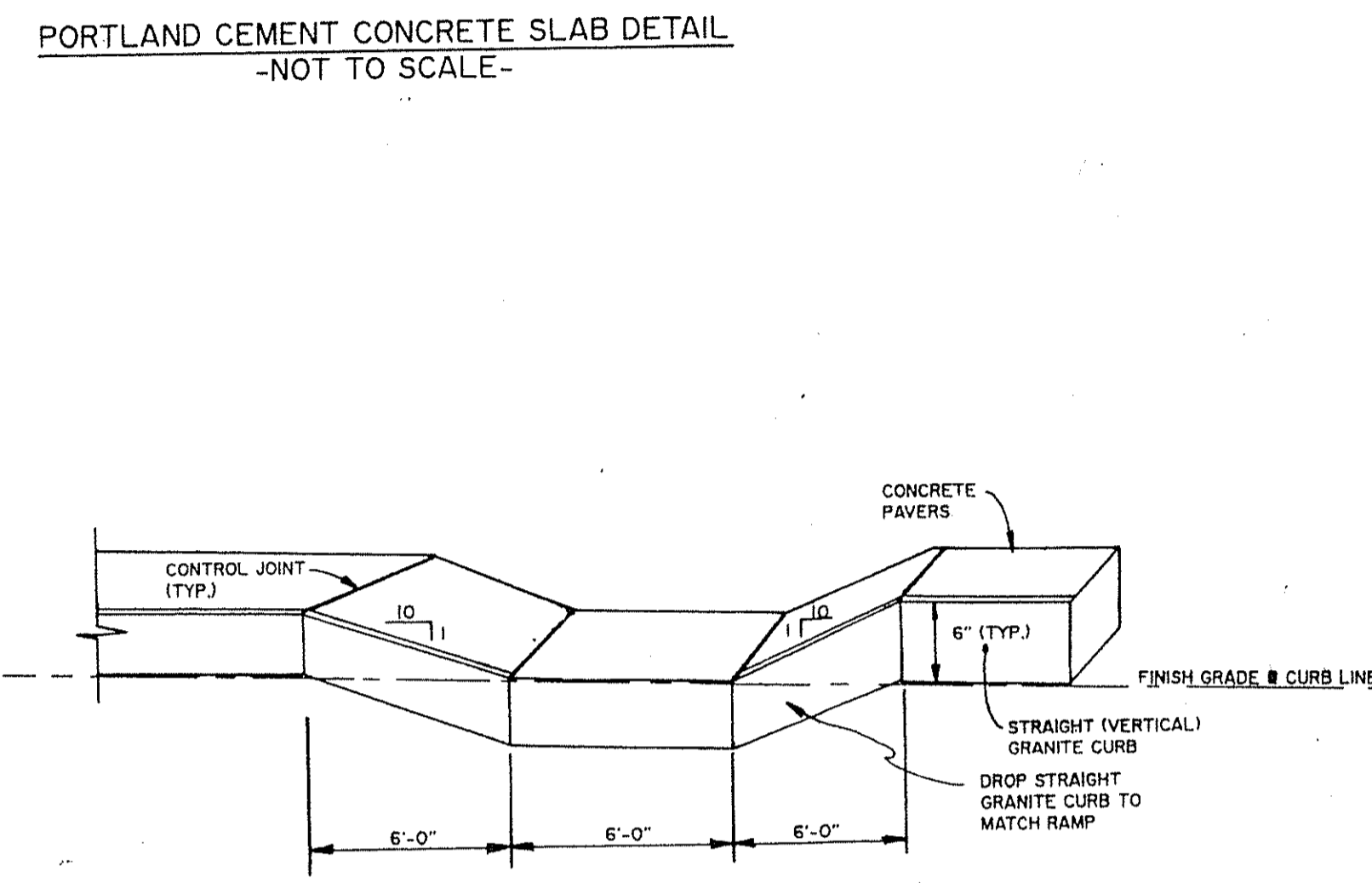
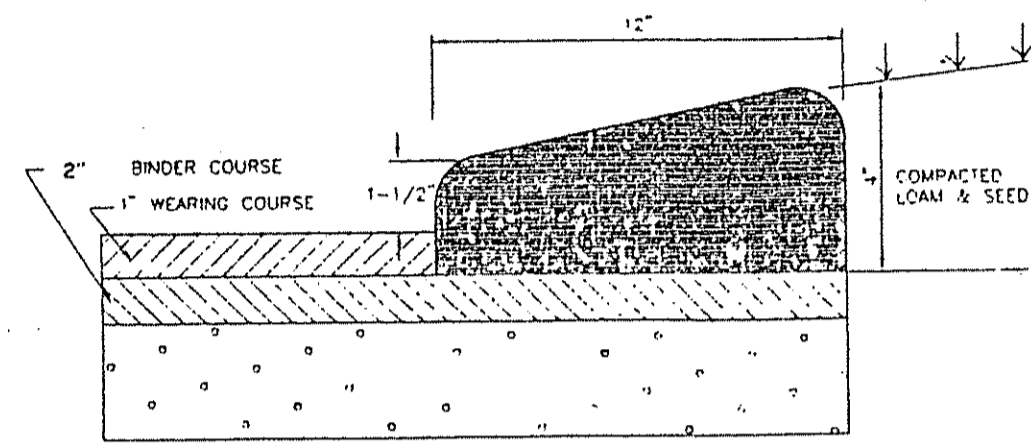
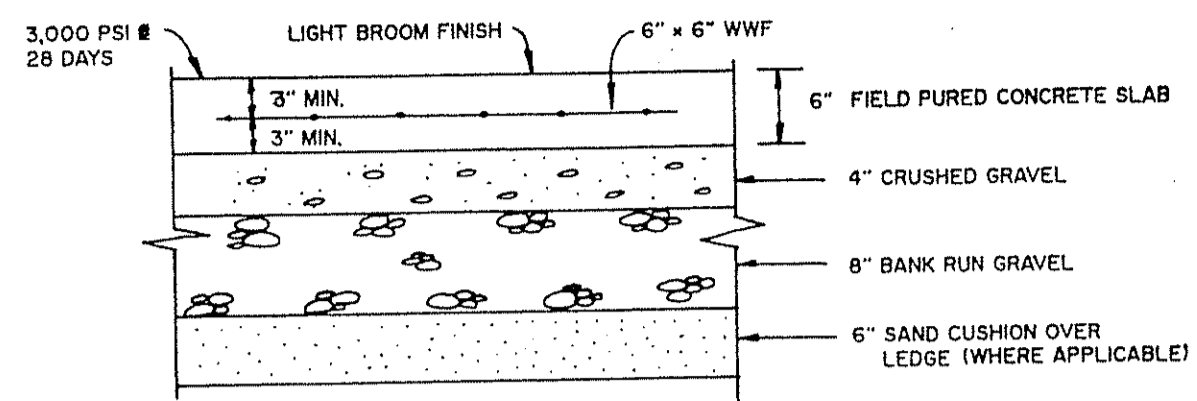
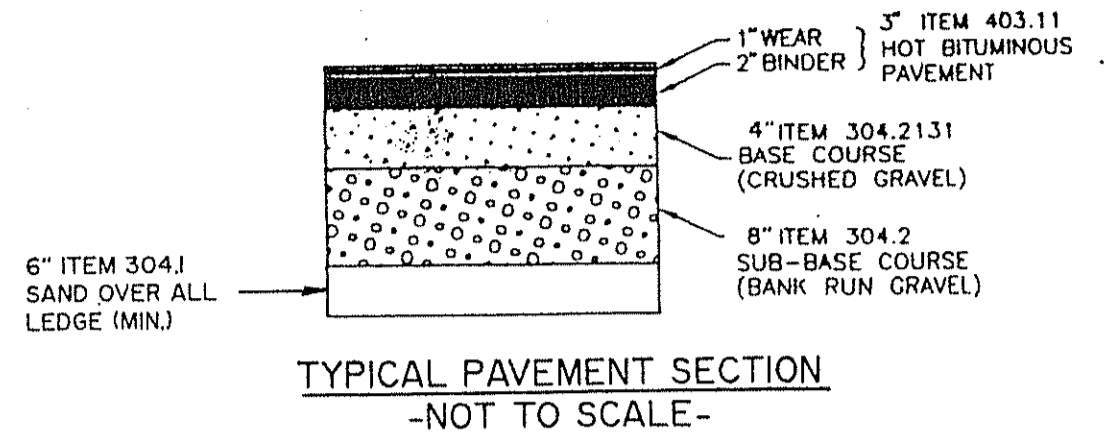
LANDSCAPE PLAN PREPARED FOR:  
**NESMITH LIBRARY**  
 MAP 16-L; LOT 100 - WINDHAM, NEW HAMPSHIRE

**OWNER**  
 TOWN OF WINDHAM  
 3 NORTH LOWELL ROAD  
 P.O. BOX 120  
 WINDHAM, NH 03087

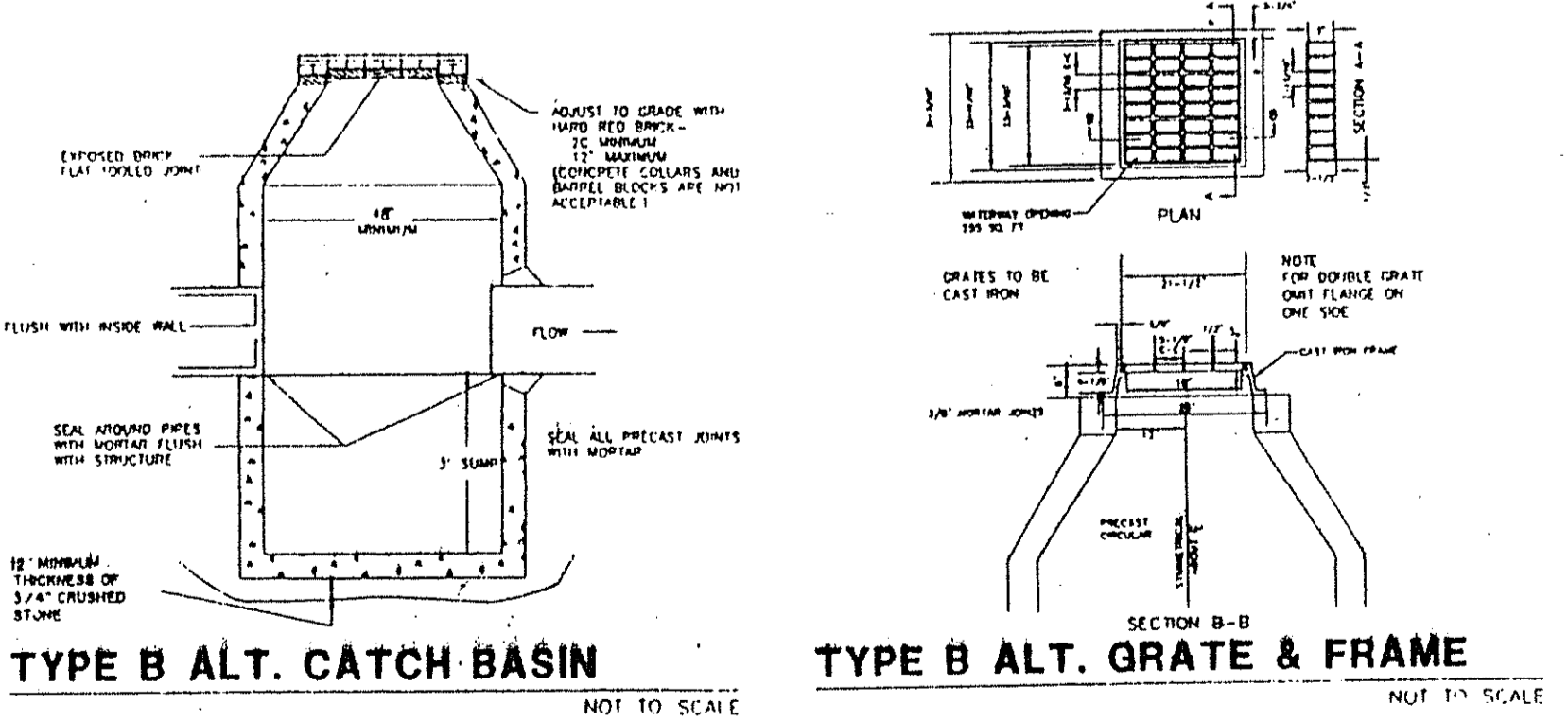
DATE	DESCRIPTION
7-26-96	ISSUED FOR BID

**DATE:** JULY 15, 1996  
**SCALE:** 1" = 20'  
**SHEET NO 5 OF 7**  
 SD - 5

NOTE: STONE DUST SURFACED AREAS TO BE CONSTRUCTED AS BELOW, EXCEPT THAT H&B IS SUBSTITUTED WITH 3-INCH COMPACTED THICKNESS OF STONE DUST.

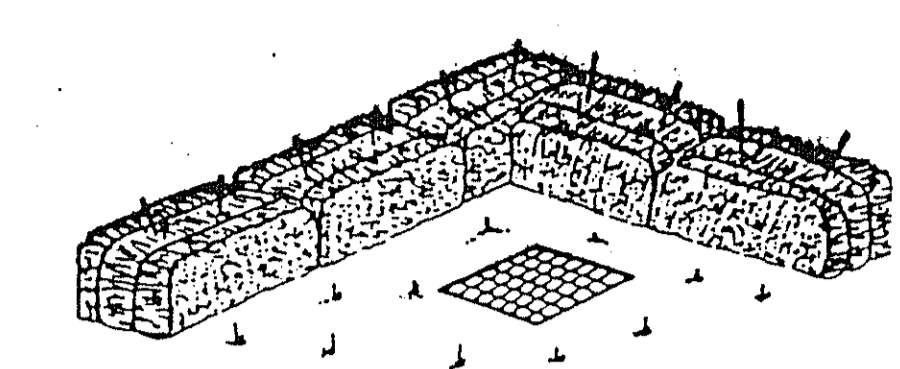
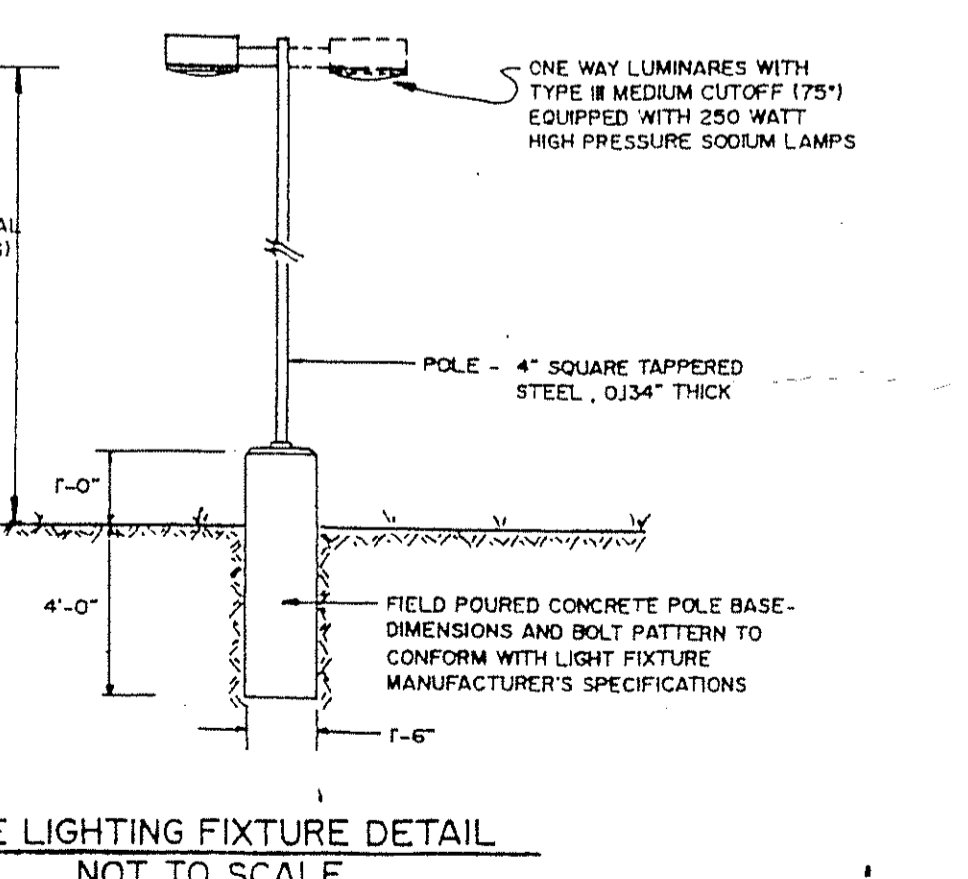
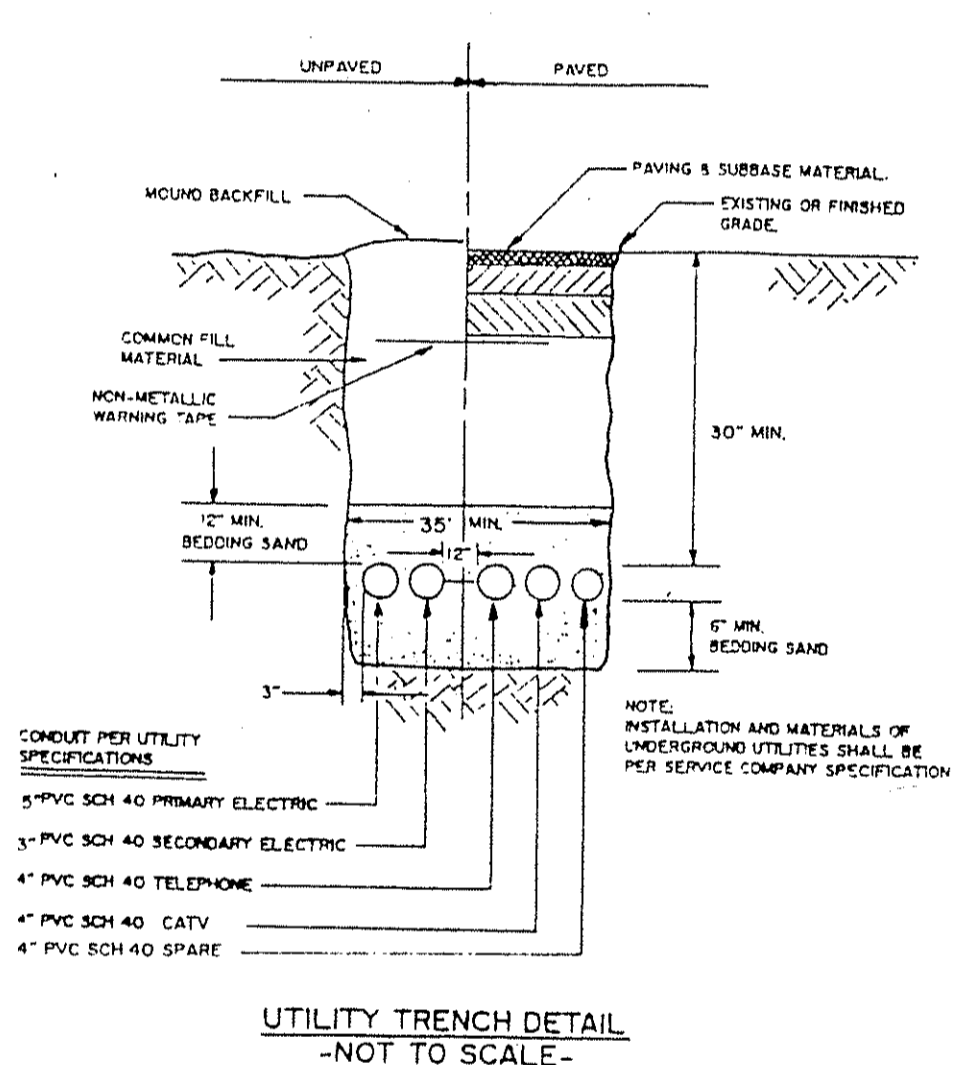
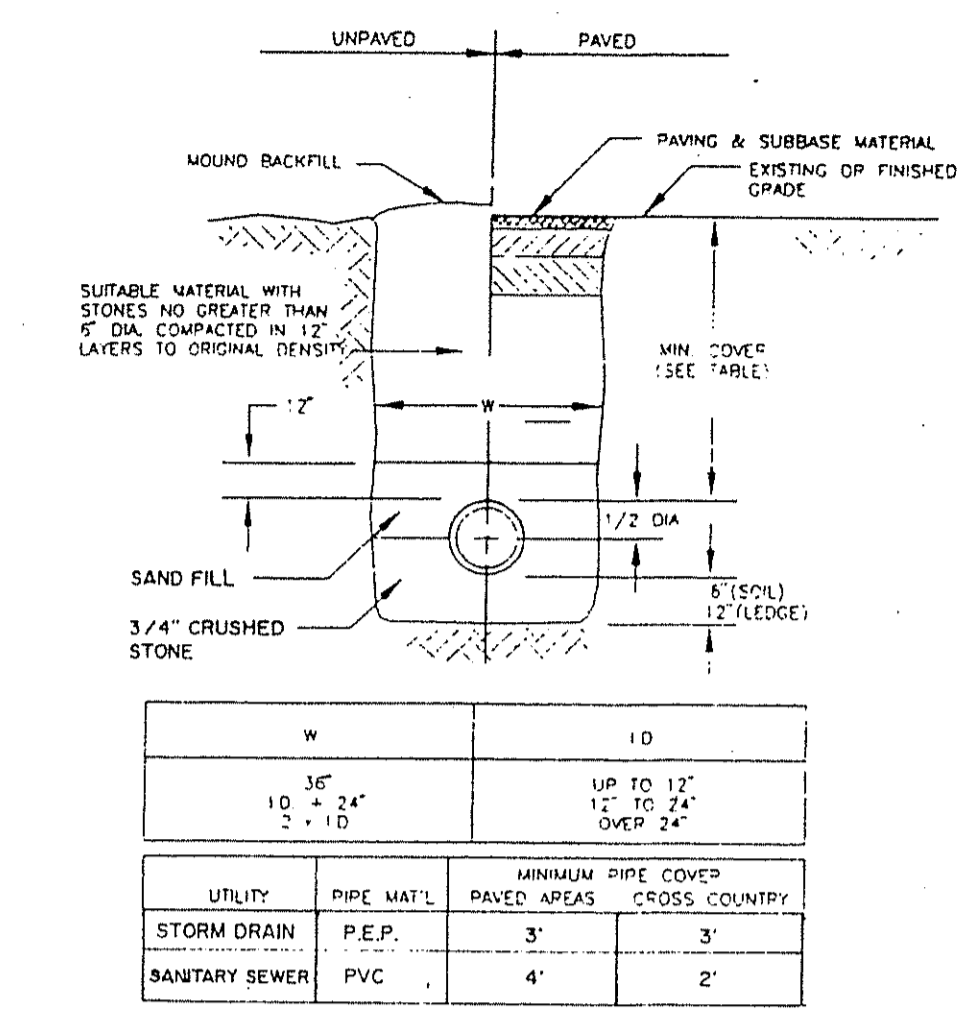
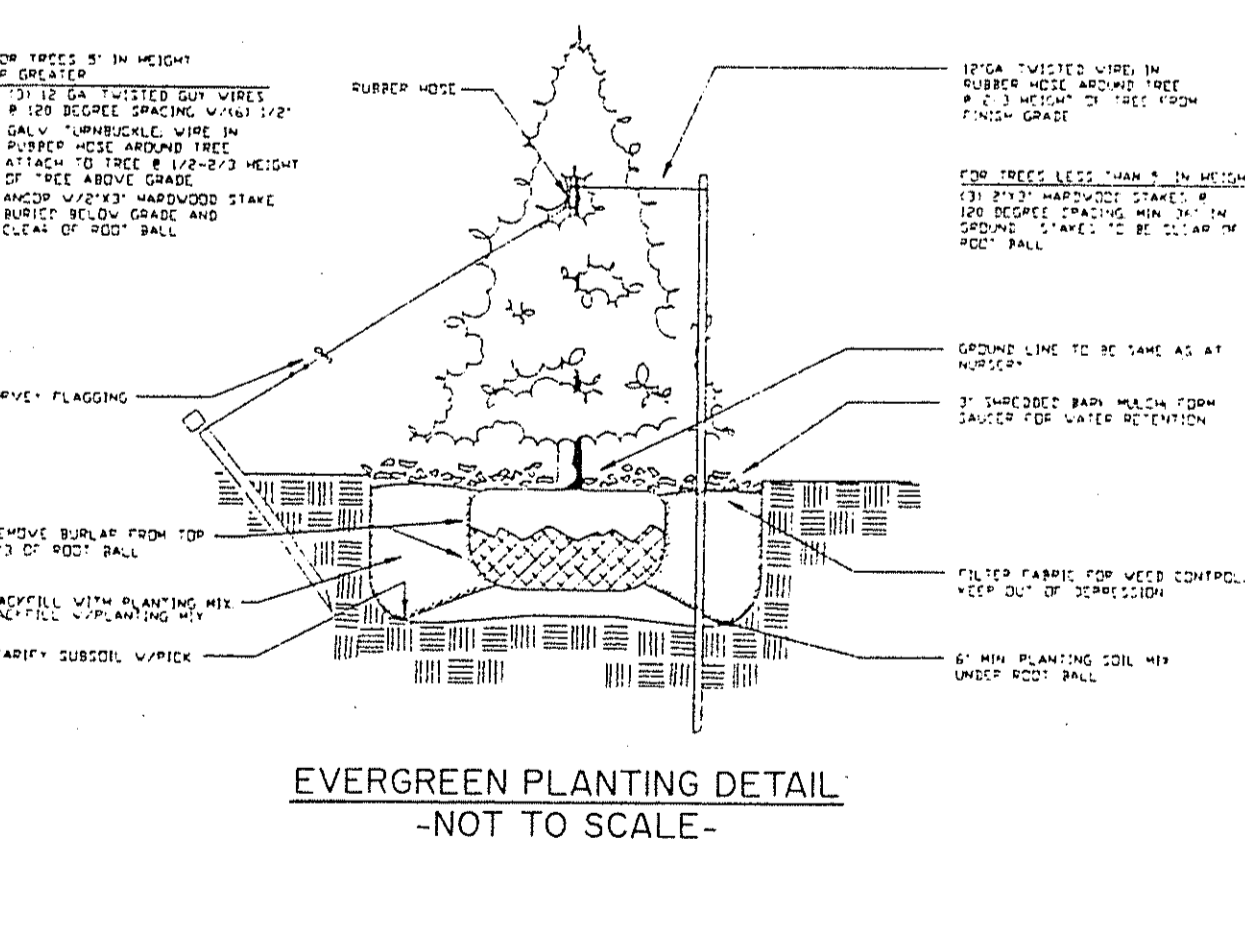
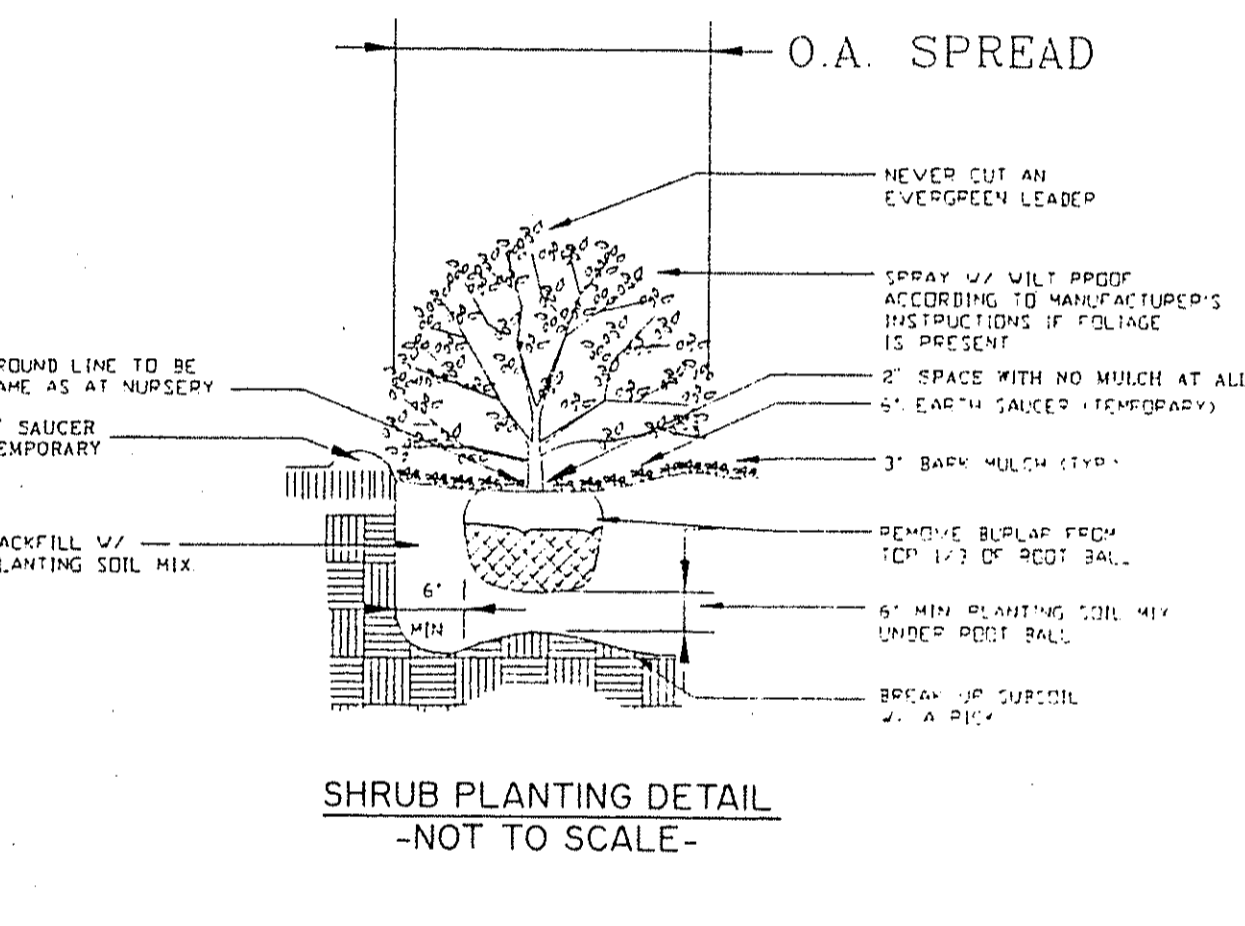
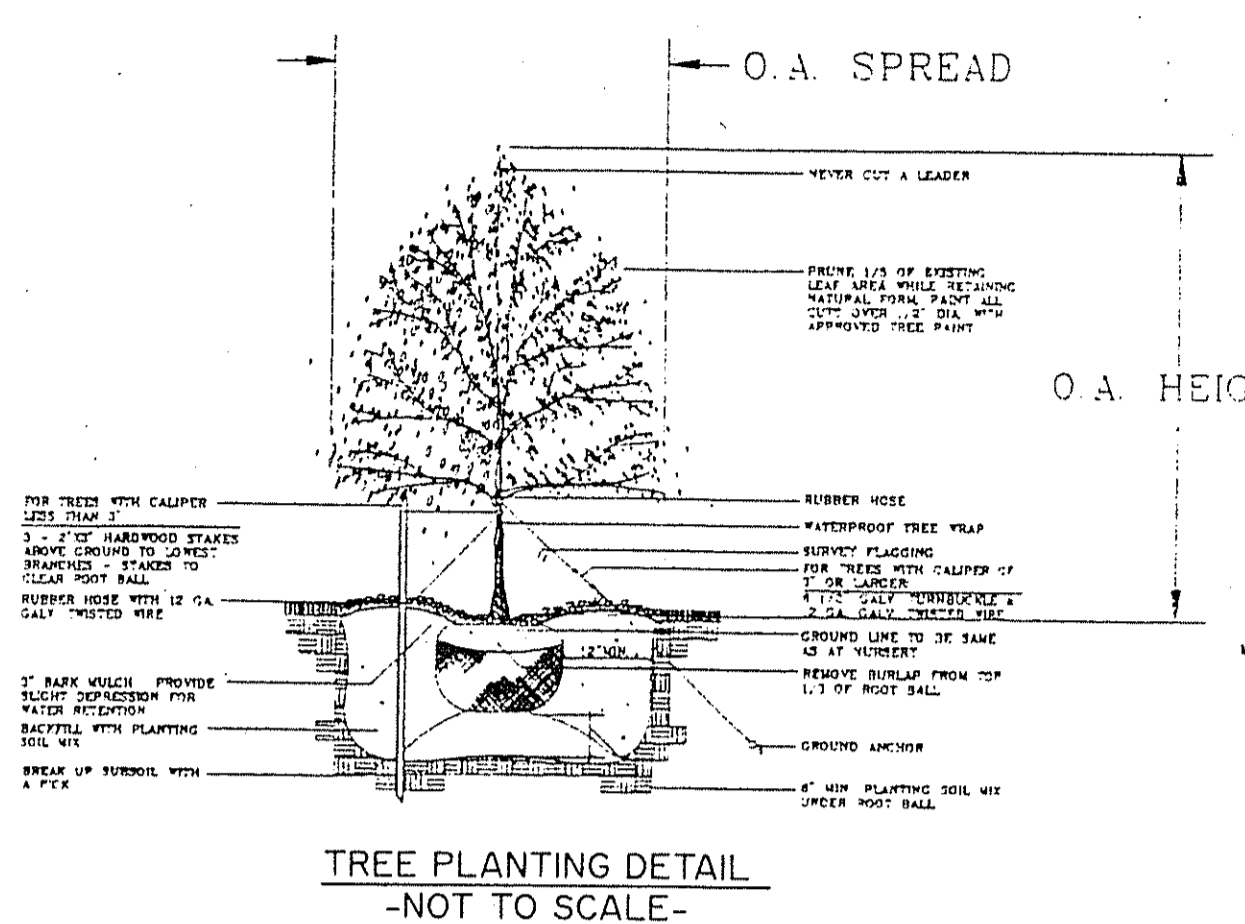


SWALE DESCRIPTION	BASE WIDTH (ft)	SIDE SLOPE	DRAINAGE SLOPE (ft/ft)	MAXIMUM FLOW Q <sub>max</sub> (cfs)	MAXIMUM VELOCITY (ft/s)	LENGTH (ft)	MAXIMUM DEPTH OF FLOW (ft)	MANNINGS COEFFICIENT
TREATMENT I	4'-0"	2:1	0.001	3.7	100	100	0.7	0.03



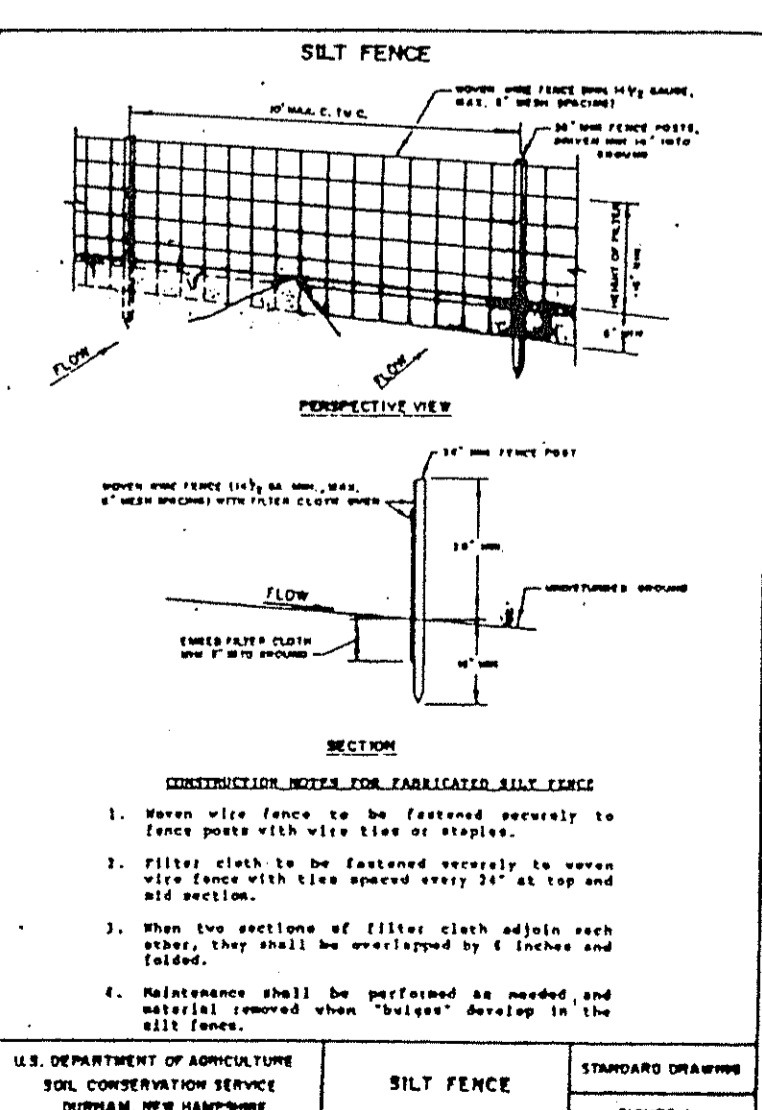
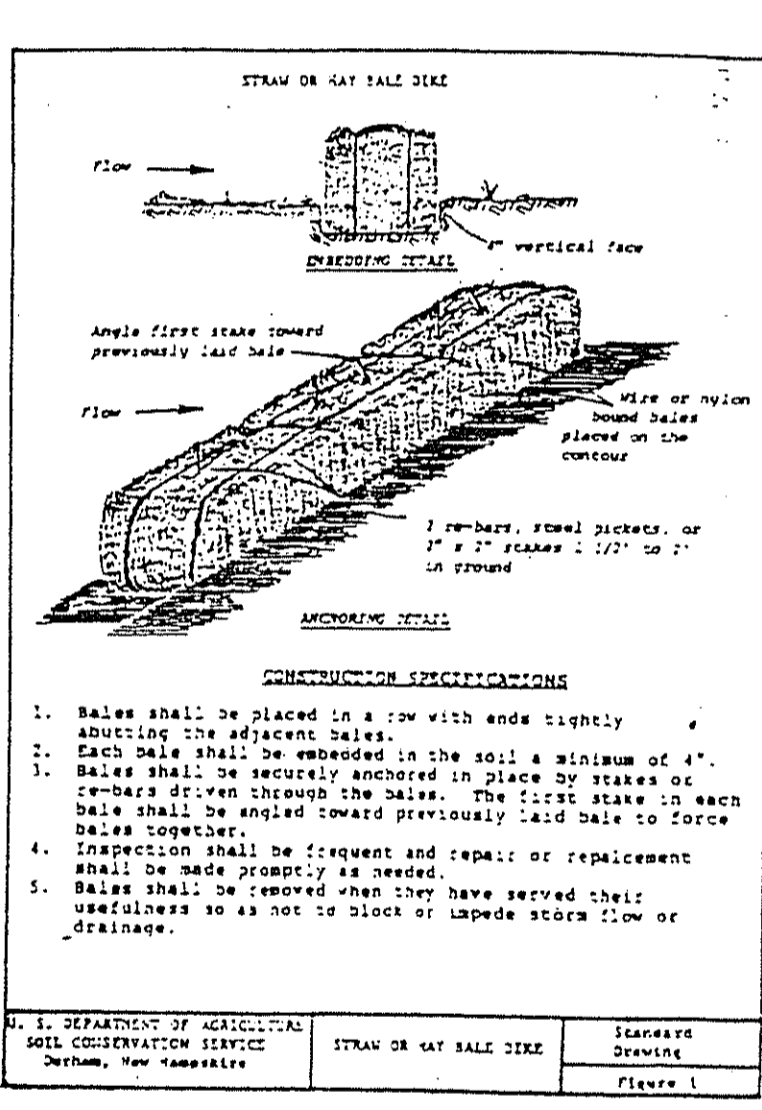
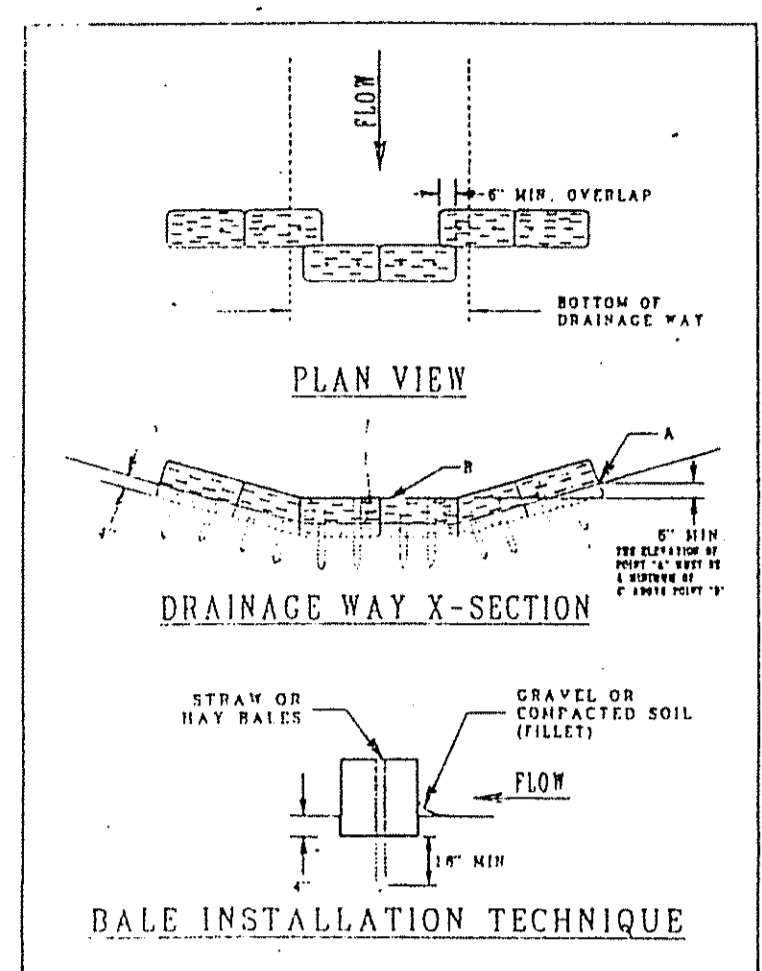
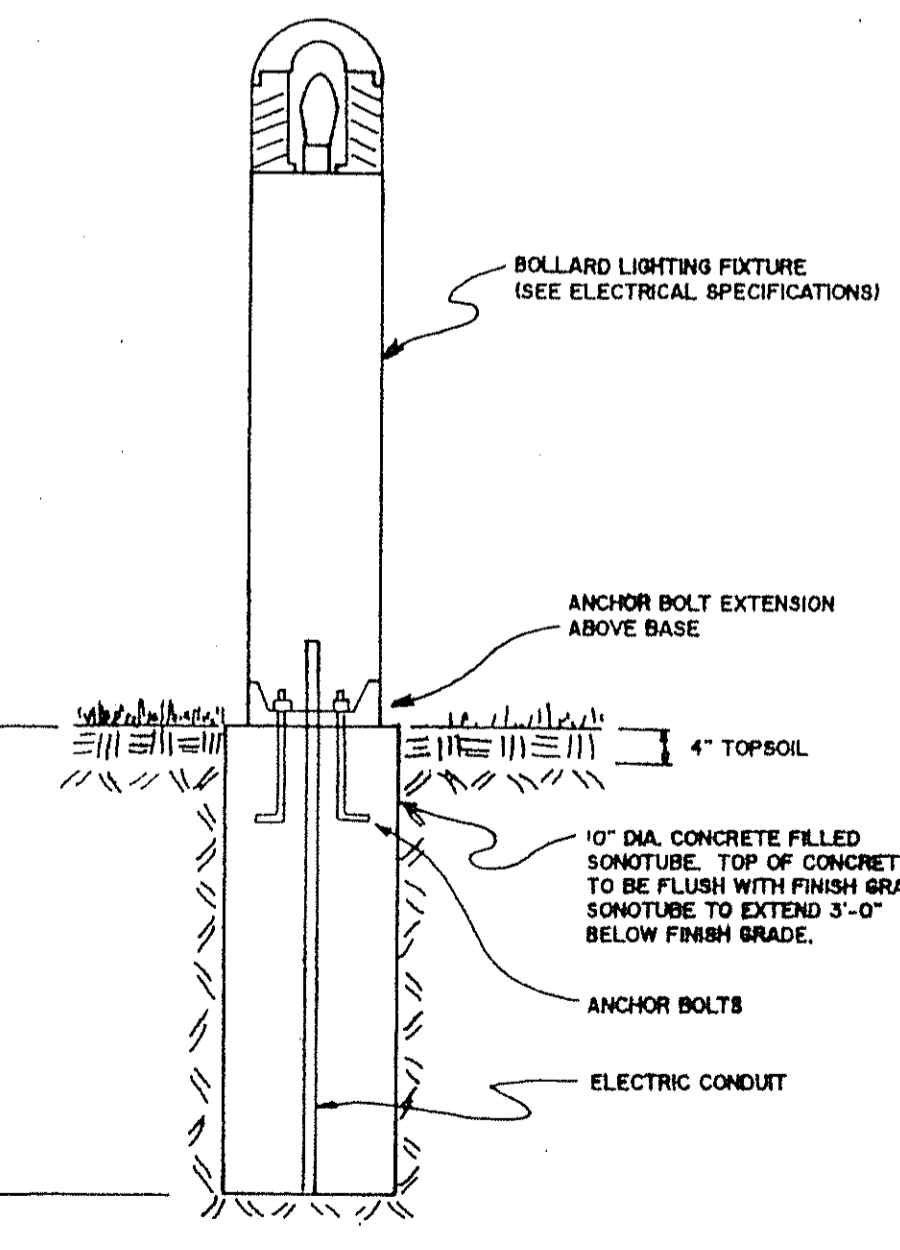
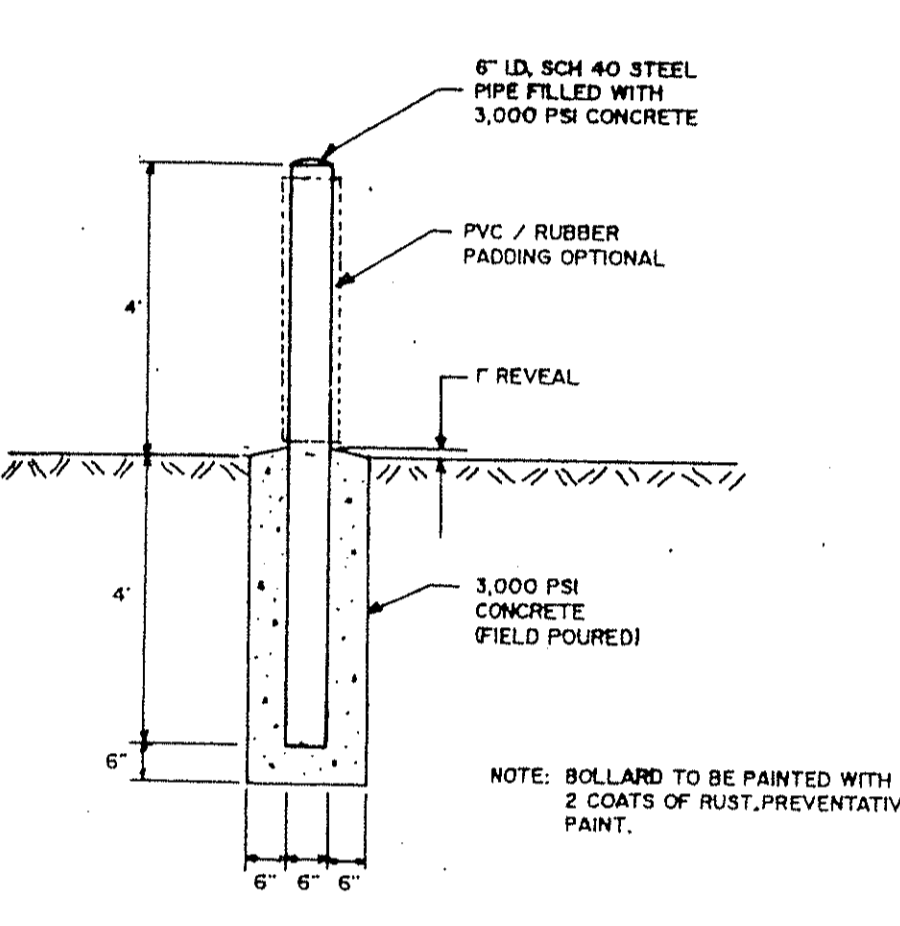
CONSTRUCTION DETAILS PREPARED FOR: NESMITH LIBRARY MAP 16-L; LOT 100 - WINDHAM, NEW HAMPSHIRE

PROJECT NO. 96-0517-1



**HAY BALE BARRIER AT CATCH BASIN**

- HAY BALE BARRIER TO REMAIN UNTIL GRASS IS GROWING IN ALL SEEDED AREAS.
- PROVIDE HAY BALES ON ALL SIDES OF CATCH BASIN FROM WHICH FLOW APPROACHES.



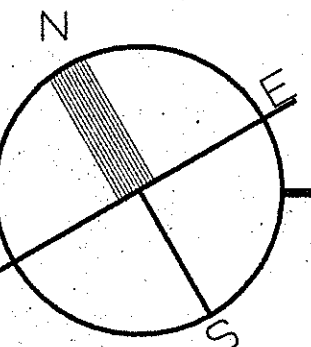
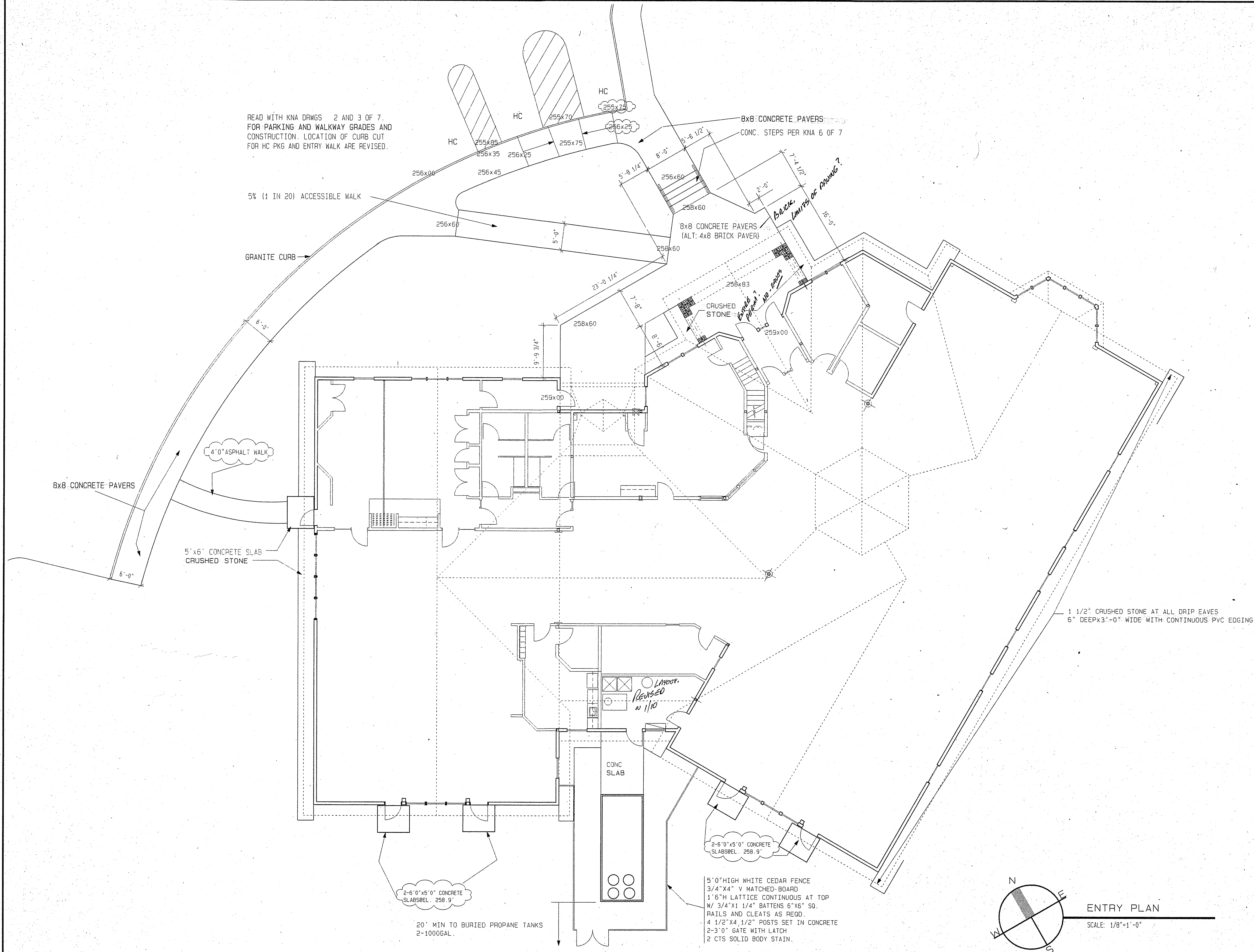
- CONSTRUCTION SEQUENCE:**
- CUT & CLEAR TREES AND BRUSH WITHIN DESIGNATED LIMITS OF CLEARING AS NECESSARY TO FACILITATE PROPOSED CONSTRUCTION ACTIVITIES. ALL TREES, BRANCHES AND OTHER VEGETATIVE MATERIALS SHALL BE PROPERLY DISPOSED OFF SITE BY THE CONTRACTOR.
  - PRIOR TO COMMENCEMENT OF EARTHMOVING OPERATIONS, ALL APPLICABLE TEMPORARY EROSION CONTROL MEASURES, INCLUDING SPECIFIED PERIMETER SILTATION FENCING SHALL BE IN PLACE AS SHOWN ON THE PROJECT PLANS.
  - COMPLETE GRUBBING OPERATIONS. ALL STUMPS AND SIMILAR ORGANIC DEBRIS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. NATIVE ORGANIC SOIL MATERIALS SUITABLE FOR USE AS TOPSOIL SHALL BE STOCKPILED WITHIN AREAS OUT OF THE WAY OF OTHER CONSTRUCTION ACTIVITIES AND DRAINAGE FLOW. STOCKPIRES SHALL BE TEMPORARILY SEEDDED WITH WINTER RYE AND BE SURROUNDED WITH HAY BALES AND/OR FABRIC SILTATION FENCE IN ORDER TO PREVENT LOSS DUE TO EROSION.
  - BEGIN EARTHMOVING OPERATION, COMMENCING WITH WORK NEEDED TO BALANCE SITE AND FACILITATE BUILDING FOUNDATION CONSTRUCTION. PERMANENT DOWNSLOPE WORK SHALL BE PROTECTED FROM UPWARD STORMWATER FLOW BY THE CONSTRUCTION OF TEMPORARY EARTHEN DIKES OR EXCAVATED SWALES.
  - ONCE BUILDING FOUNDATION CONSTRUCTION IS UNDERWAY, CONTINUE EARTHMOVING OPERATIONS UNTIL DESIGN SUBGRADE IS ACHIEVED.
  - INSTALL CLOSED DRAINAGE SYSTEM AND OTHER UTILITIES WORKING FROM LOW TO HIGH. INCOMPLETE WORK SHALL BE PROTECTED FROM SILTATION BY USE OF HAYBALE SILTATION BARRIERS AROUND CATCHBASIN AND CULVERT OPENINGS UNTIL THE SITE HAS BECOME FULLY STABILIZED AND/OR PAVED.
  - PLACE GRAVEL AND CRUSHED GRAVEL OVER PROPOSED DRIVEWAY, WALKS AND PARKING AREAS AND COMPACT IN SPECIFIED LIFT THICKNESS.
  - COMPLETE EXCAVATION/STABILIZATION GRADING ACTIVITIES. WHEN COMPLETE, IMMEDIATELY BEGIN TOPSOILING PROPOSED TURF AREAS USING STOCKPILED LOAM SUPPLEMENTED WITH BORROW LOAM, IF NECESSARY, TO LEAVE A COMPACTED THICKNESS OF 4-INCHES OF FRIABLE LOAM.
  - FINE GRADE ALL FUTURE TURF AREAS AND HYDROSEED WITH THE SPECIFIED SEED MIXTURE IMMEDIATELY AFTER FINE GRADING IS COMPLETED.
  - INSTALL THE BINDER COURSE OF PAVEMENT OVER ALL DESIGNATED AREAS.
  - CONTINUE TO MONITOR AND RECTIFY MINOR SITE AND SLOPE EROSION UNTIL ENTIRE SITE APPEARS TO BE COMPLETELY STABILIZED AND VEGETATED WITH A HEALTHY STAND OF TURF OR GROUND COVER. MAINTAIN SPECIFIED SILTATION/EROSION CONTROL MEASURES THROUGH ONE FULL WINTER.
  - INSTALL THE SPECIFIED WEARING COURSE OF PAVEMENT OVER THE BINDER COURSE.
  - COMPLETE INSTALLATION OF LANDSCAPING, SIGNAGE AND OTHER SITE AMENITIES.

- EROSION CONTROL NOTES:**
- EXPOSED EARTHWORK SHALL BE CONFINED TO AS LITTED AN AREA AS IS PRACTICAL AT ANY GIVEN TIME THROUGHOUT THE CONSTRUCTION SEQUENCE. AT NO TIME SHALL MORE THAN ONE ACRE OF SITE AREA BE IN AN UNSTABLE CONDITION. NO GIVEN AREA OF THE SITE SHALL BE LEFT IN AN UNSTABILIZED CONDITION FOR A PERIOD OF TIME EXCEEDING FIVE CALENDAR DAYS.
  - TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PROJECT PLANS. IN ADDITION, SIMILAR MEASURES SHALL BE INSTALLED WHERE AND WHEN THE FIELDS CONDITIONS, OR FIELD OPERATION OF THE INDIVIDUAL SITE CONTRACTOR MAY WARRANT. ALL TEMPORARY EROSION CONTROL MEASURES USED SHALL BE PERIODICALLY INSPECTED, CLEANED MAINTAINED AND OTHERWISE KEPT IN AN EFFECTIVE OPERATIONS MANNER THROUGHOUT THE CONSTRUCTION PERIOD.
  - ALL DISTURBED AREAS DESIGNATED TO BE TURF SHALL RECEIVE A MINIMUM APPLICATION OF 4-INCHES OF LOAM (COMPACTED THICKNESS) PRIOR TO FINAL SEEDING AND MULCHING.
  - ALL SWALES AND DITCHLINES SHALL BE PERIODICALLY CLEANED OF DEPOSITED SEDIMENT SO AS TO MAINTAIN AN EFFECTIVE GRADE AND CROSS-SECTION. ALL SWALES AND DITCHLINES SHALL BE FULLY STABILIZED PRIOR TO HAVING STORMWATER DIRECTED TO THEM.
  - BALES MAY USED FOR TEMPORARY EROSION CONTROL MEASURES SHALL BE DRY MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS, DEBRIS AND WOOD.
  - IN THE EVENT THAT DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT, A WINTER SHUTDOWN IS NECESSARY, THE CONTRACTOR SHALL STABILIZE ALL INCOMPLETE WORK AND PROVIDE FOR A SUITABLE METHOD OF DIVERTING RUNOFF IN ORDER TO ELIMINATE SHEET FLOW ACROSS FROZEN EARTHEN SURFACES.
  - DUST SHALL BE CONTROLLED BY THE USE OF WATER AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD.
  - IN NO WAY ARE THESE TEMPORARY EROSION CONTROL MEASURES INDICATED ON THESE PLANS TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGEMENT IN INSTALLING SUPPLEMENTAL EROSION CONTROL MEASURES WHERE AND WHEN SPECIFIC SITE CONDITIONS AND/OR CONSTRUCTION METHODOLOGIES MAY WARRANT.
  - AREAS HAVING FINISH GRADE SLOPES OF 3:1 OR STEEPER SHALL BE STABILIZED WITH JUTE MATTING WHEN AND IF FIELD CONDITIONS WARRANT, OR IF SO ORDERED, JUTE MATTING INSTALLED TO CONFORM WITH THE RECOMMENDED BEST MANAGEMENT PRACTICE OUTLINED IN "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".

- TURF ESTABLISHMENT SCHEDULE:**
- SEED BED PREPARATION:**
- PLACE 4-INCH (MINIMUM) COMPACTED THICKNESS OF CLEAN SUITABLE LOAM.
  - RAKE OUT LOAM TO FREE SOIL OF DEBRIS AND STONES GREATER THAN 1-INCH IN DIAMETER.
  - FINE GRADE SURFACE AND SUPPLEMENT WITH LOAM WHERE NEEDED TO CREATE UNIFORM SURFACE.
  - APPLY AGRICULTURAL LIMESTONE AT A RATE OF 90-POUNDS PER 1,000 S.F.
  - APPLY 10-20-20 FERTILIZER AT A RATE OF 11-POUNDS PER 1,000 S.F.
- SEEDING SPECIFICATIONS:**
- SEED SHALL BE SPREAD UNIFORMLY BY BROADCASTING, DRILLING OR HYDROSEEDING. IF HYDROSEEDING, USE 4-TIMES THE RECOMMENDED RATE OF INOCULANT.
  - SEEDING FOR PERMANENT COVER SHALL OCCUR BETWEEN APRIL 15 AND OCTOBER 1. WHEN SEEDING BETWEEN MAY 15 AND SEPTEMBER 1, ALL AREAS SEEDDED SHALL BE MULCHED WITH HAY, STRAW OR OTHER ACCEPTABLE MATERIAL AT A RATE OF 2-TONS PER ACRE.
  - SEED MIXTURE FOR LAWN AREAS SHALL CONTAIN 45% TALL FESCUE, 45% CREEPING RED FESCUE, AND 10% REDTOP APPLIED AT A RATE 2.3-POUNDS PER 1,000 S.F.
  - SEED MIXTURE FOR SLOPE AREAS AND STORMWATER MANAGEMENT AREAS SHALL CONTAIN 40% TALL FESCUE, 40% CREEPING RED FESCUE, AND 20% BIRDSFOOT TREFLOIL APPLIED AT A RATE 1.10-POUNDS PER 1,000 S.F.



READ WITH KNA DRWGS 2 AND 3 OF 7.  
FOR PARKING AND WALKWAY GRADES AND  
CONSTRUCTION. LOCATION OF CURB CUT  
FOR HC PKG AND ENTRY WALK ARE REVISED.



ENTRY PLAN

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

NESMITH LIBRARY  
ROUTE 111 AND NORTH LOWELL ROAD, WINDHAM, N.H.

DENNIS MIRES, P.A.  
THE ARCHITECTS  
New Hampshire  
Manchester

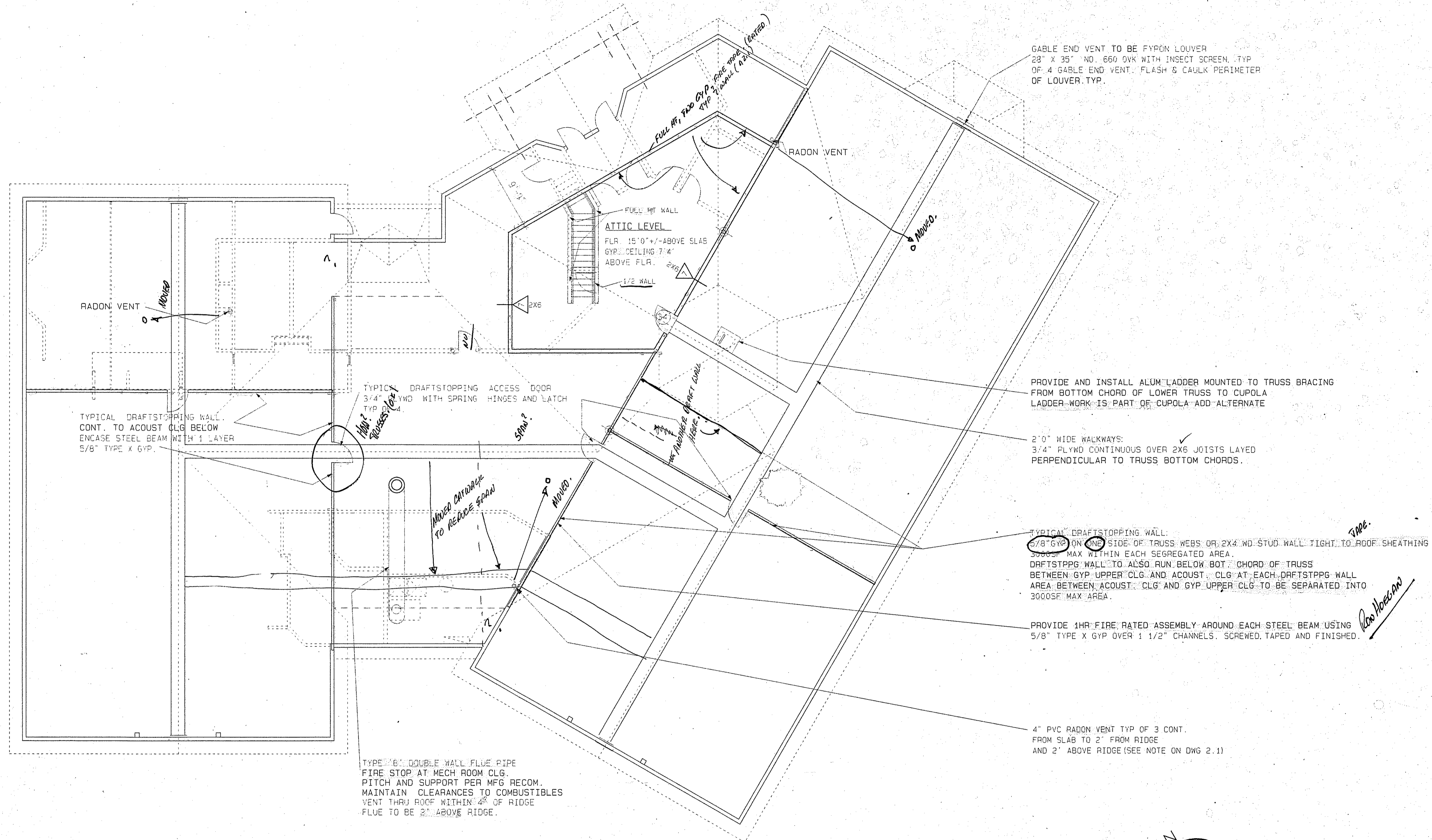
FLOOR PLAN  
Scale: 1/8"=1'-0"

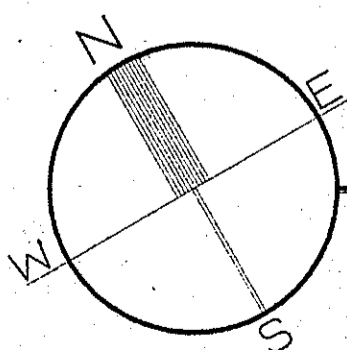
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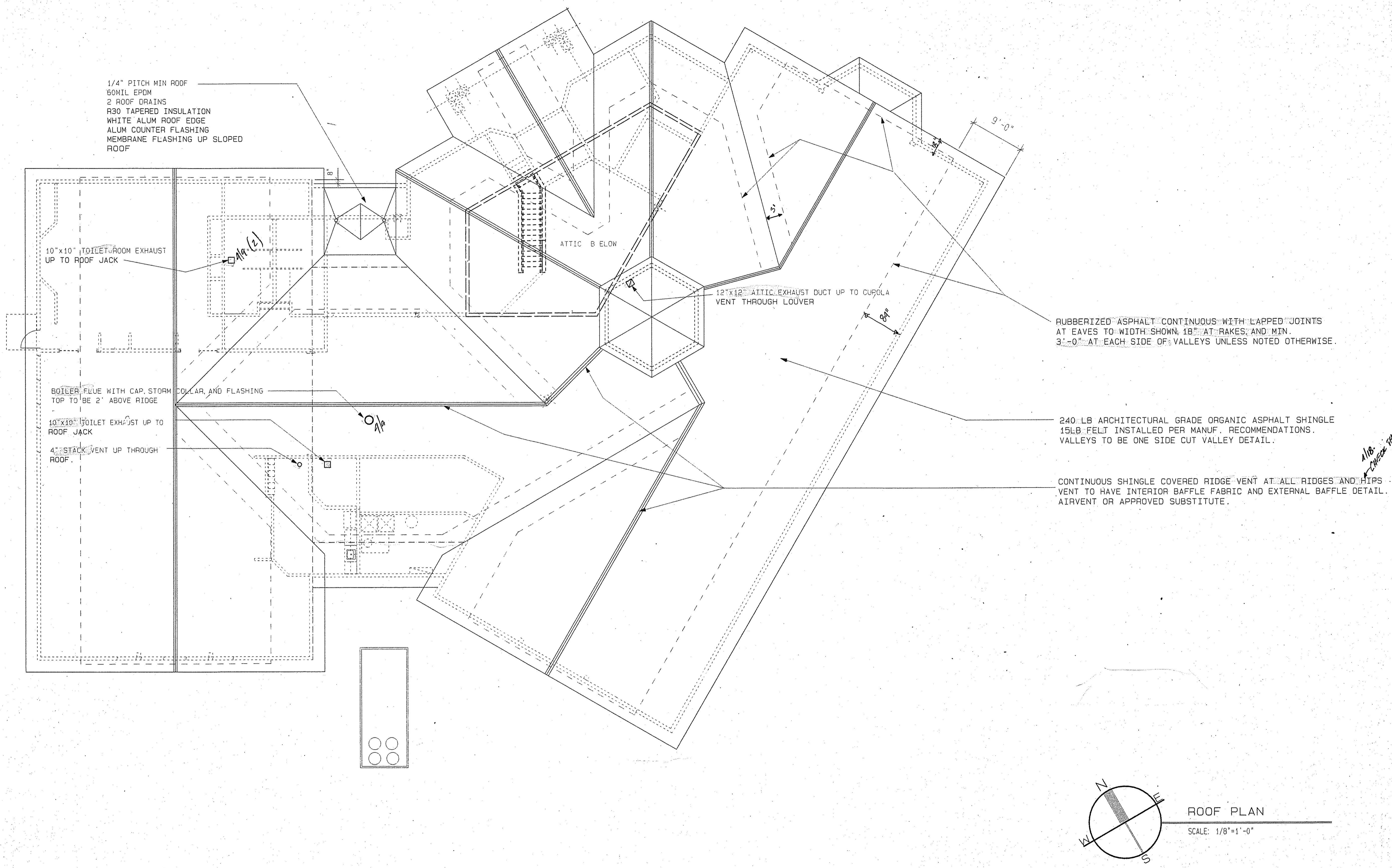
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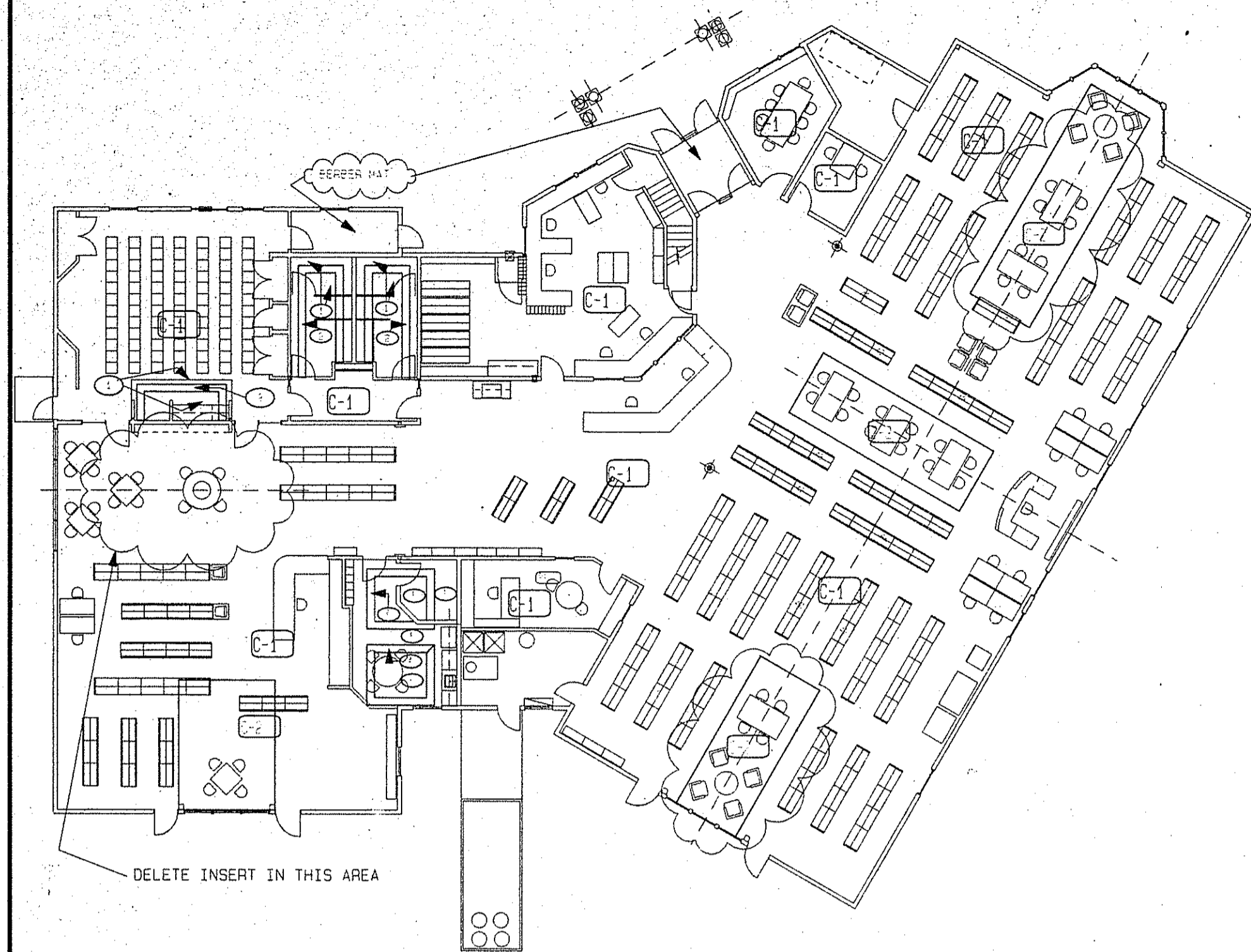
proj. no. 96.129

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





NESMITH LIBRARY: FLOORING LAYOUT  
 CARPET VCT  
 EPOXY PT. OVER CONCRETE PTD. PLYWOOD

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	WALLS				BASE	CEILING		REMARKS
			NORTH	SOUTH	EAST	WEST		MATERIAL	HT.	
00	COVERED ENTRY	CONCRETE PAVERS	---	DOORS/ EXT WALL	---	---	---	PTD MDO	9'0"	
01	VESTIBULE	BERBER MAT	DOORS/ EXT WALL	DOORS/ CTR LITE	PTD.GYP.	PTD.GYP.	WOOD	ACOUST. CONCEALED	9'0"	
02	CIRCULATION	CARPET	ENTRY DOOR	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST. CONCEALED	9'0"	
03	NON-FICTION	CARPET	PTD.GYP.	---	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	VARIES	
04	YOUNG ADULT	CARPET	---	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	VARIES	
05	REFERENCE	CARPET	---	---	PTD.GYP.	---	WOOD	ACOUST.	VARIES	
06	FICTION	CARPET	---	---	PTD.GYP.	---	WOOD	ACOUST.	VARIES	
07	PERIODICAL	CARPET	---	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	VARIES	
08a	QUIET STUDY	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	9'0"	
09	NEW BOOK	CARPET	PTD.GYP.	PTD.GYP.	---	---	WOOD	ACOUST. CONCEALED	9'0"	
10	QUIET STUDY	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	9'0"	
11	UTILITY	VCT	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	GYPSTUM	14' +/-	
12	TECHNICAL SERVICES	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	ACOUST/ GYPSTUM	5'6" 7'6"	
13	PERIODICAL STORAGE	CARPET	PTD.GYP.	PTD.GYP.	---	PTD.GYP.	VINYL	ACOUST/ GYPSTUM	7'6"	
14	DIRECTOR	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	ACOUST.	9'0"	
15	STAFF	VCT	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	ACOUST.	9'0"	
16	STAFF TOILET	VCT	EPOXY PTD.GYP.	EPOXY PTD.GYP.	EPOXY PTD.GYP.	EPOXY PTD.GYP.	VINYL	ACOUST.	9'0"	USE M.R. GYP. BD. THROUGH-OUT ROOM
17	MECHANICAL	EPOXY PT. OVER CONCRETE	EPOXY PTD.GYP.	EPOXY PTD.GYP.	EPOXY PTD.GYP.	EPOXY PTD.GYP.	VINYL	GYPSTUM	SLOPED	USE M.R. GYP. BD. BEHIND & ADJACENT TO JANITOR / MOP SINK AREA
18	DELETE PATCH RM.									
19	CHILDREN'S ROOM	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	VARIES	
20	MULTI-PURPOSE	CARPET / VCT	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	12'4"	CHAIR RAIL AND PICTURE RAIL MOLDING. SEE DETAIL
21	CLOSET	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	GYPSTUM	7'6"	
22	A/V CLOSET	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	GYPSTUM	7'6"	PROVIDE 3-24"D PL. LAM. OVER 3/4" PLYWD SHELVES ON ADJUSTABLE BRACKETS
23	CLOSET	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	GYPSTUM	7'6"	
24	CLOSET	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	GYPSTUM	7'6"	
25	EXIT ALCOVE	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	GYPSTUM	7'6"	
26	WOMEN'S TOILET	VCT	EPOXY PTD.GYP.	EPOXY PTD.GYP.	EPOXY PTD.GYP.	EPOXY PTD.GYP.	VINYL	ACOUST.	9'0"	USE M.R. GYP. BD. THROUGH-OUT ROOM
27	MEN'S TOILET	VCT	EPOXY PTD.GYP.	EPOXY PTD.GYP.	EPOXY PTD.GYP.	EPOXY PTD.GYP.	VINYL	ACOUST.	9'0"	USE M.R. GYP. BD. THROUGH-OUT ROOM
28	CORRIDOR	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	9'0"	
29	WEST VESTIBULE	BERBER MAT	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	WOOD	ACOUST.	9'0"	
30	ATTIC	PTD. PLYWD.	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	GYPSTUM	7'4"	
31	STAIR	GPT over PLYWD. TREADS AND RISERS	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	GYPSTUM	---	CARPET STAIR COMPLETE. LANDING RISERS. TREADS
32	STAFF CLOSET	CARPET	PTD.GYP.	PTD.GYP.	PTD.GYP.	PTD.GYP.	VINYL	GYPSTUM	7'6"	

NESMITH LIBRARY  
 ROUTE 111 AND NORTH LOWELL ROAD, WINDHAM, N. H.

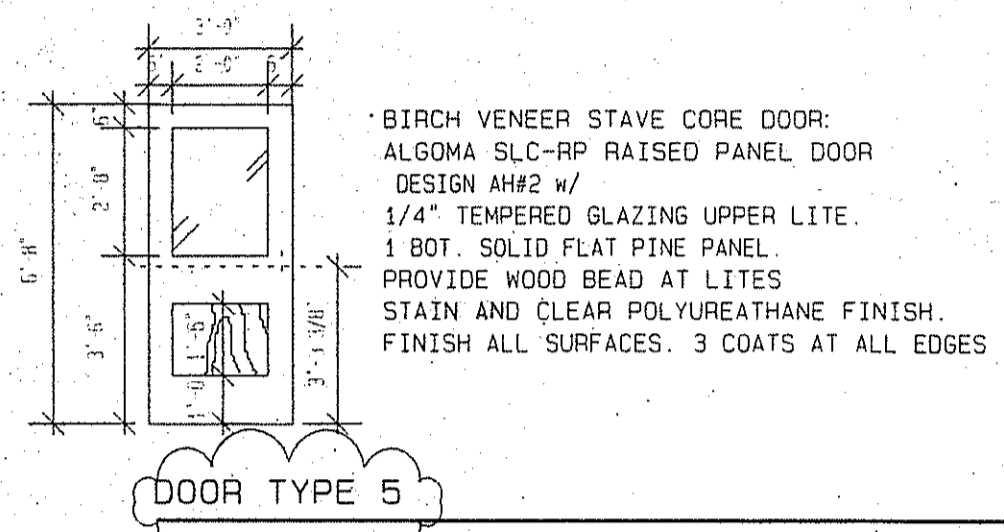
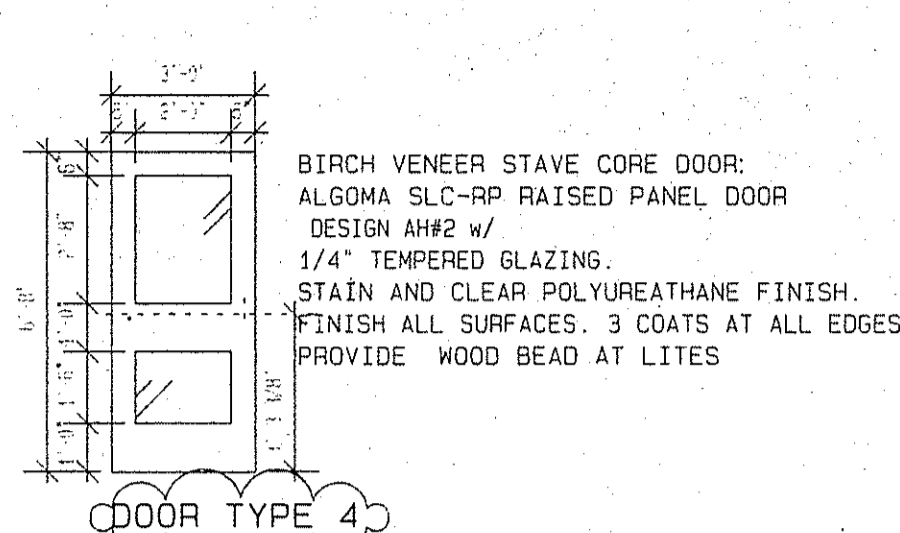
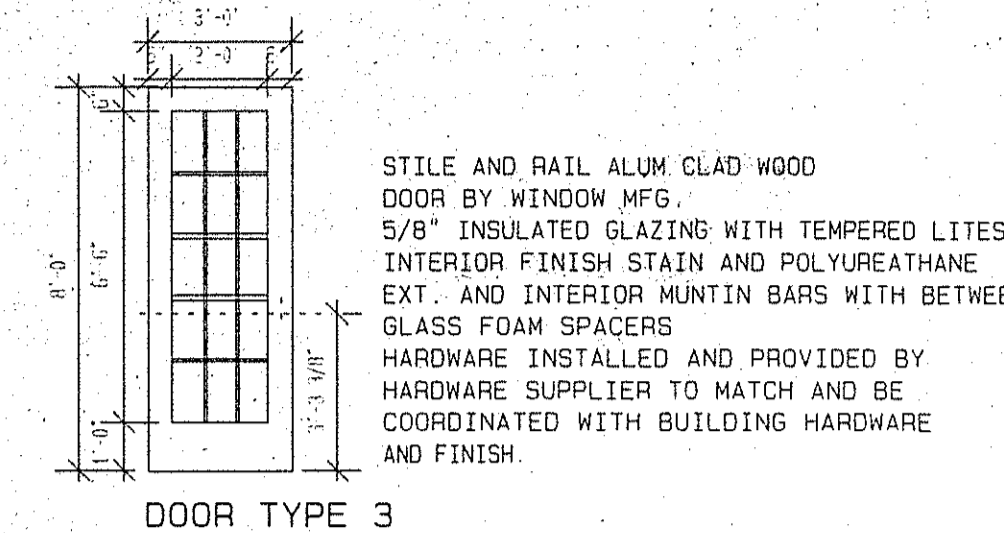
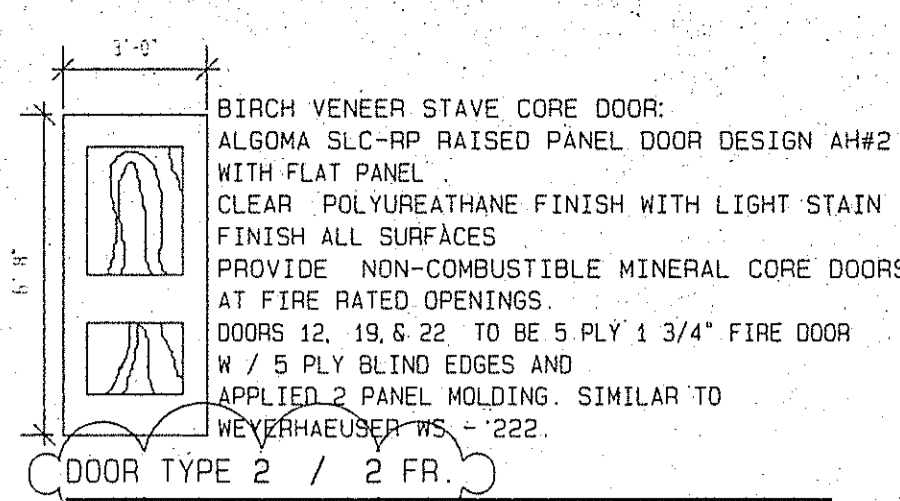
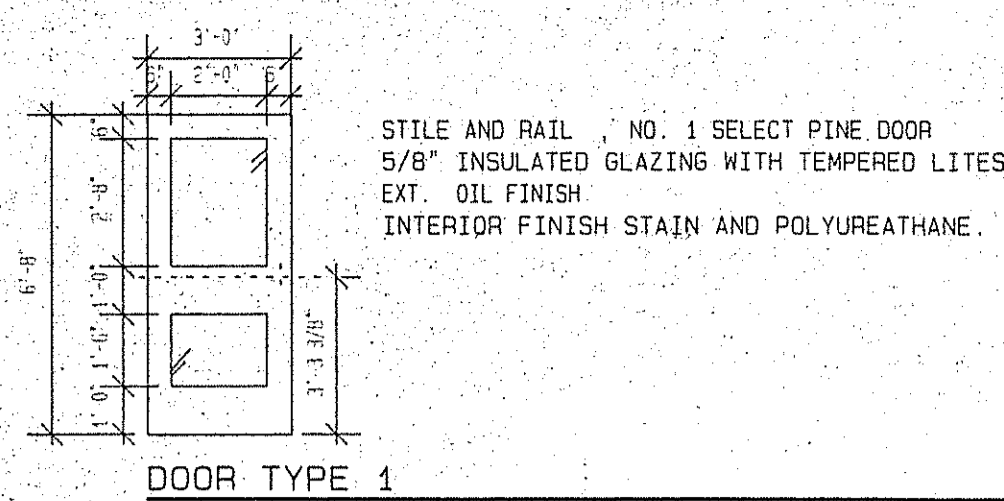
DENNIS MIREN, P.A.  
 THE ARCHITECTS  
 New Hampshire  
 Manchester

ROOM FINISH SCHEDULE

REVISION:  
 10/9/96

date: 7 / 18 / 96  
 proj. no. 96-129

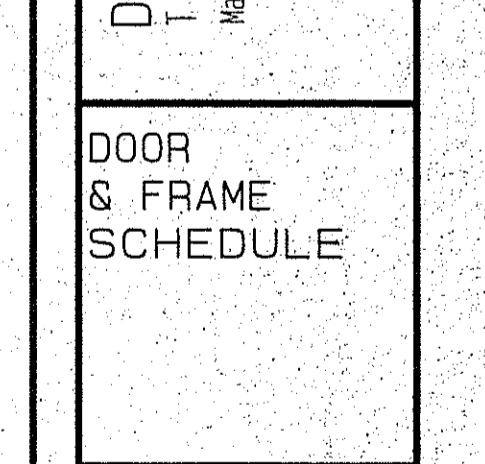
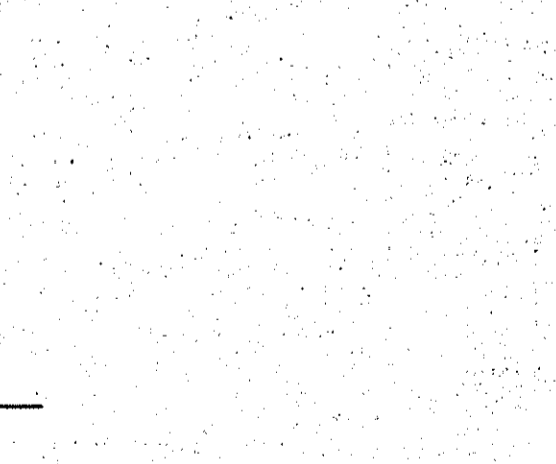
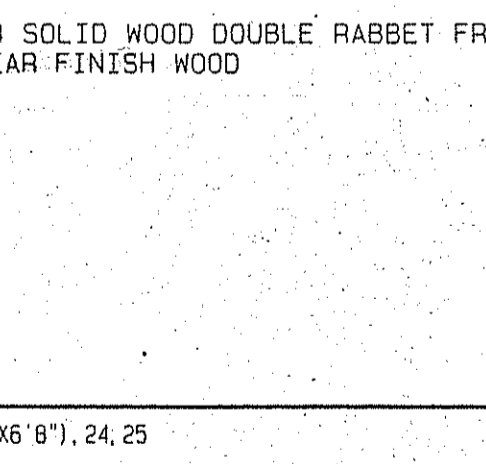
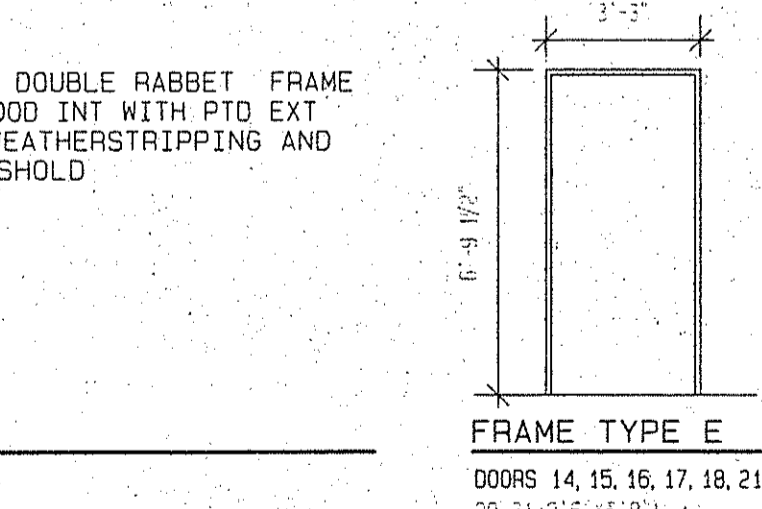
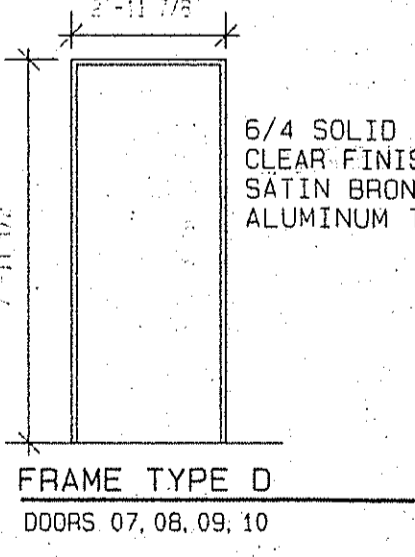
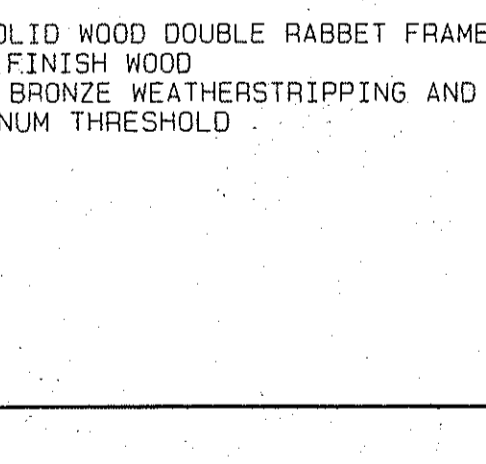
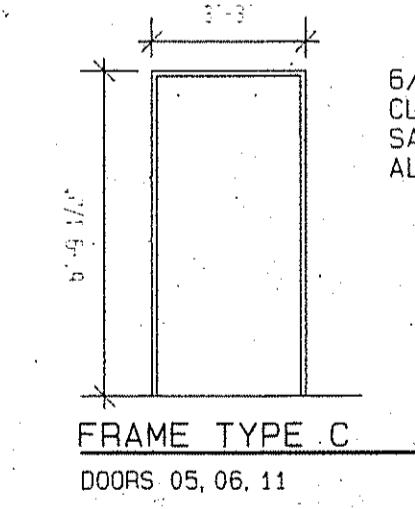
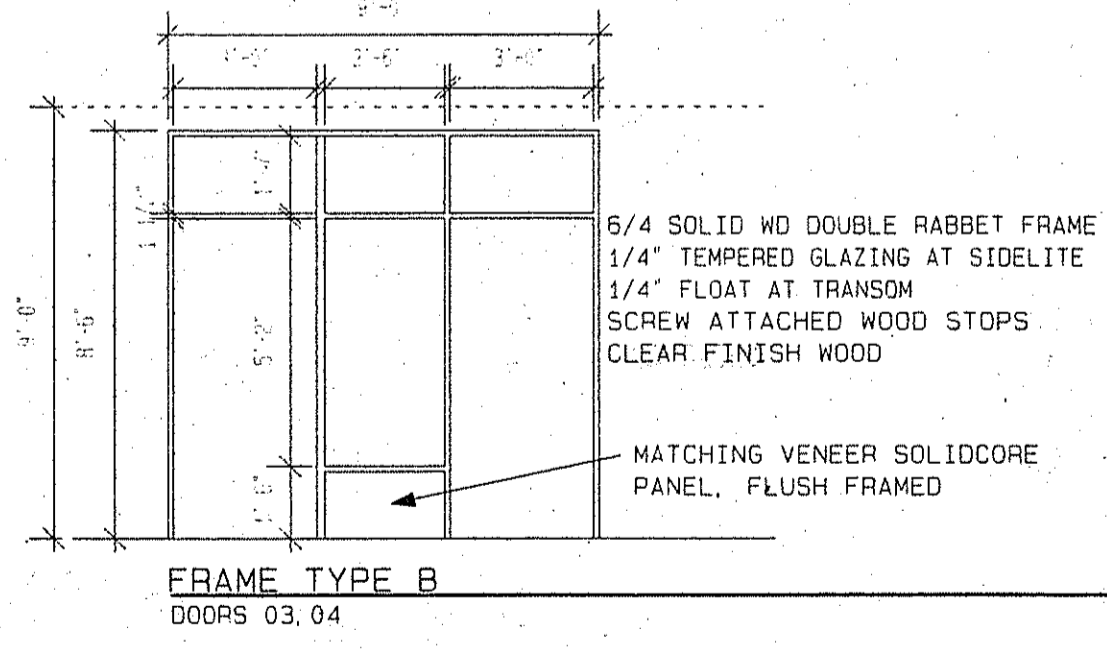
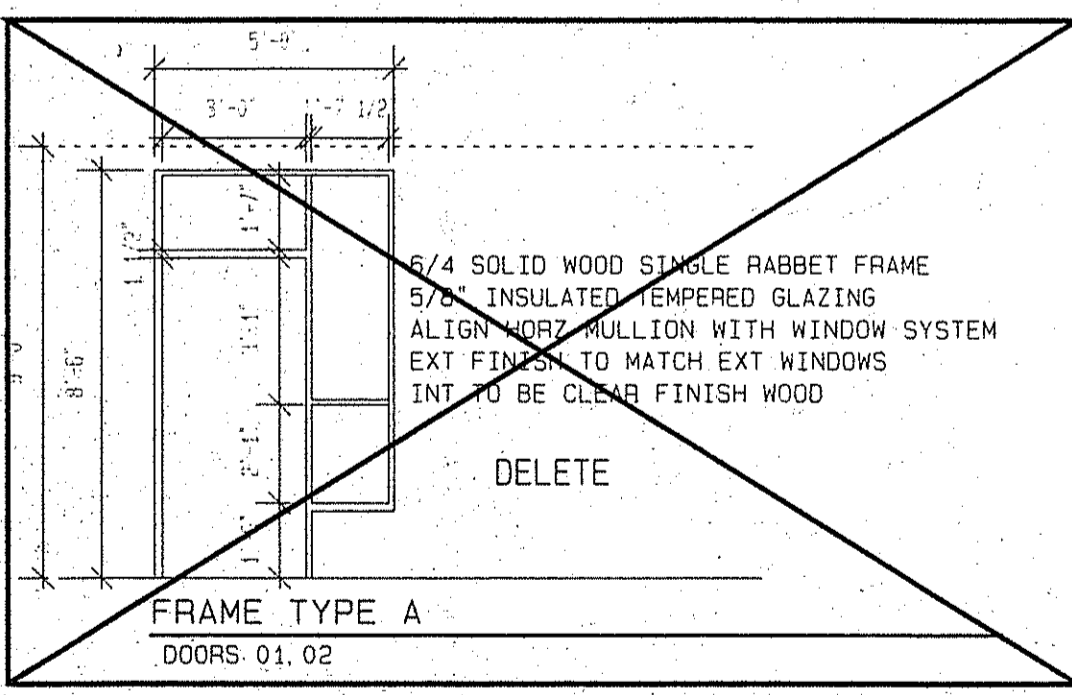
A 2.4



**DOOR AND FRAME SCHEDULE**

DR. NO.	DOOR LOCATION: WxHxT	DOOR			FRAME			FIRE RATING			HDWRE		REMARKS		
		MAT.	TYPE	GLASS	MAT.	TYPE	DETAIL	LABEL	CLSR	KEYED					
								JAMB	HEAD	SILL					
01	VEST/EXT: 3'0"X6'8"X1 3/4"	WOOD	1	INSUL TP	WOOD	(B)					0	YES	PANIC	YES	01 CLOSER 7601
02	VEST/EXT: 3'0"X6'8"X1 3/4"	WOOD	1	INSUL TP	WOOD	(B)					0	YES	PANIC	YES	02 CLOSER 7601
03	VEST/CIRC: 3'0"X6'8"X1 3/4"	WOOD	4	TEMPERED	WOOD	B					0	YES	PH/PL	NO	03 CLOSER 7601
04	VEST/CIRC: 3'0"X6'8"X1 3/4"	WOOD	4	TEMPERED	WOOD	B					0	YES	PH/PL	NO	04 CLOSER 7601
05	VEST VEST/EXT: 3'0"X6'8"X1 3/4"	GLD WD	1	INSUL TP	WOOD	C					0	YES	PANIC	YES	05 CLOSER 7601
06	MULTIP/EXT: 3'0"X6'8"X1 3/4"	INSUL MTL			WOOD	C					0	YES	PANIC	YES	06 FIBERGLASS STAINABLE EMBOSSED 6 PANEL
07	CHILD/EXT: 3'0"X8'0"X1 3/4"	CLD WD	3	INSUL TP	WOOD	D					0	YES	PANIC	YES	07
08	CHILD/EXT: 3'0"X8'0"X1 3/4"	CLD WD	3	INSUL TP	WOOD	D					0	YES	PANIC	YES	08
09	PERIOD/EXT: 3'0"X8'0"X1 3/4"	CLD WD	3	INSUL TP	WOOD	D					0	YES	PANIC	YES	09
10	PERIOD/EXT: 3'0"X8'0"X1 3/4"	CLD WD	3	INSUL TP	WOOD	D					0	YES	PANIC	YES	10
11	MECH/EXT: 3'0"X6'8"X1 3/4"	INSUL MTL			WOOD	C					0	YES	LEVER	YES	11 FIBERGLASS STAINABLE EMBOSSED 6 PANEL
12	UTILITY/CIRC: 3'0"X6'8"X1 3/4"	WOOD	2 FR		HM	F					C 3/4HR	YES	LEVER	YES	12 CLR FIN WD CASING COPEDED OVER METAL CASING. W/HERSTRG AND SWEEP
13	CIRC/QUIET STDY: 3'0"X6'8"X1 3/4"	WOOD	4	TEMPERED	WOOD	(E)					0	NO	LEVER	YES	13
14	CIRC/TECH: 3'0"X6'8"X1 3/4"	WOOD	5	TEMPERED	WOOD	E					0	NO	LEVER	YES	14
15	CIRC/PERIOD STO: 3'0"X6'8"X1 3/4"	WOOD	5	TEMPERED	WOOD	E					0	NO	LEVER	YES	15
16	NW BOOK/DIRECT: 3'0"X6'8"X1 3/4"	WOOD	5	TEMPERED	WOOD	E					0	NO	LEVER	YES	16
17	NW BOOK/STAFF: 3'0"X6'8"X1 3/4"	WOOD	2		WOOD	E					0	NO	LEVER	YES	17
18	STAFF/STIFF TOIL: 3'0"X6'8"X1 3/4"	WOOD	2		WOOD	E					0	YES	LEVER	PRIV	18 UNDERCUT DOOR LEAF 1"
19	MECH/PRDCL: 3'0"X6'8"X1 3/4"	WOOD	2 FR		HM	F					C 3/4HR	YES	LEVER	YES	19
20	CIRC/IND STDY10A: 3'0"X6'8"X1 3/4"	WOOD	5	TEMPERED	WOOD	(E)					0	NO	LEVER	YES	20
21	TECH SERV/CLD: 2'6"X6'8"X1 3/4"	WOOD	2		WOOD	E					0	NO	LEVER	YES	21
22	TECH SERV/ATTIC: 3'0"X6'8"X1 3/4"	WOOD	2 FR		HM	F					C 3/4HR	YES	LEVER	YES	22 CLR FINISH WD CASING COPEDED OVER METAL CASING
23	NW BK/CORR: 3'0"X6'8"X1 3/4"	WOOD	4	TEMPERED	WOOD	H					0	NO	LEVER	YES	23
24	CORR/MEN: 3'0"X6'8"X1 3/4"	WOOD	2		WOOD	E					0	YES	PH/PL	DOBLT	24 UNDERCUT DOOR LEAF 1"
25	CORR/WOMEN: 3'0"X6'8"X1 3/4"	WOOD	2		WOOD	E					0	YES	PH/PL	DOBLT	25 UNDERCUT DOOR LEAF 1"
26	MULTIP/CORR: 3'0"X6'8"X1 3/4"	WOOD	4	TEMPERED	WOOD	H					0	NO	LEVER	YES	26
27	MULTIP/CHILD: 3'0"X6'8"X1 3/4"	WOOD	(4)	TEMPERED	WOOD	I					0	NO	LEVER	YES	27
28	MULTIP/CHILD: 3'0"X6'8"X1 3/4"	WOOD	(4)	TEMPERED	WOOD	I					0	NO	LEVER	YES	28
29	MULTIP/W VEST: 3'0"X6'8"X1 3/4"	CLD WD	(4)	TEMPERED	WOOD	E					0	YES	PH/PL	YES	29 CLOSER 7601
30	MULTIP/CLO 21: 2-2'6"X6'8"X1 3/4"	WOOD	2		WOOD	J					0	NO	LEVER	YES	30 PROVIDE WD T ASTRAGAL FOR CLR FIN, FLUSH BOLTS AT INACTIVE PANEL
31	MULTIP/AV 22: 2'6"X6'8"X1 3/4"	WOOD	2		WOOD	E					0	NO	LEVER	YES	31
32	MULTIP/CLO 23: 2-2'6"X6'8"X1 3/4"	WOOD	2		WOOD	J					0	NO	LEVER	YES	32 PROVIDE WD T ASTRAGAL FOR CLR FIN, FLUSH BOLTS AT INACTIVE PANEL
33	MULTIP/CLO 24: 2-2'6"X6'8"X1 3/4"	WOOD	2		WOOD	J					0	NO	LEVER	YES	33 PROVIDE WD T ASTRAGAL FOR CLR FIN, FLUSH BOLTS AT INACTIVE PANEL
34	ATTIC: 3'0"X6'8"X1 3/4"	METAL			HM	HM					C 3/4HR	YES	LEVER	YES	34 LABEL FLUSH METAL DOOR RATED FRAME
35	(DELETE)														35
36	MULTIP: 27 VIFX12'-4"X3" NOM	STL/CPT			STL TRK						0				36 CPT FACED FOLDING PART PANEL, RECESSED TRACK, ACOUT SEALS, MIN STC 49.
37	BOOK DROP: 3'0"X4'2"X1 3/4"	WOOD			HM	HM					C 20MIN		LEVER	YES	37 STD BIRCH VENEER SPRING HINGES, THUMBTURN AT INSIDE
38	(DELETE)														38

36 FOLDING PARTITION PANELS TO BE PROVIDED AS AN ADD ALTERNATE. THE TRACK, GUIDES, FIXED JAMB, VERTICAL ASTRAGALS, BLOCKING, AND ALL STRUCTURAL SUPPORT TO BE PROVIDED UNDER BASE BID.  
CLOSERS TO BE DORMA 1641 EXCEPT WHERE NOTED



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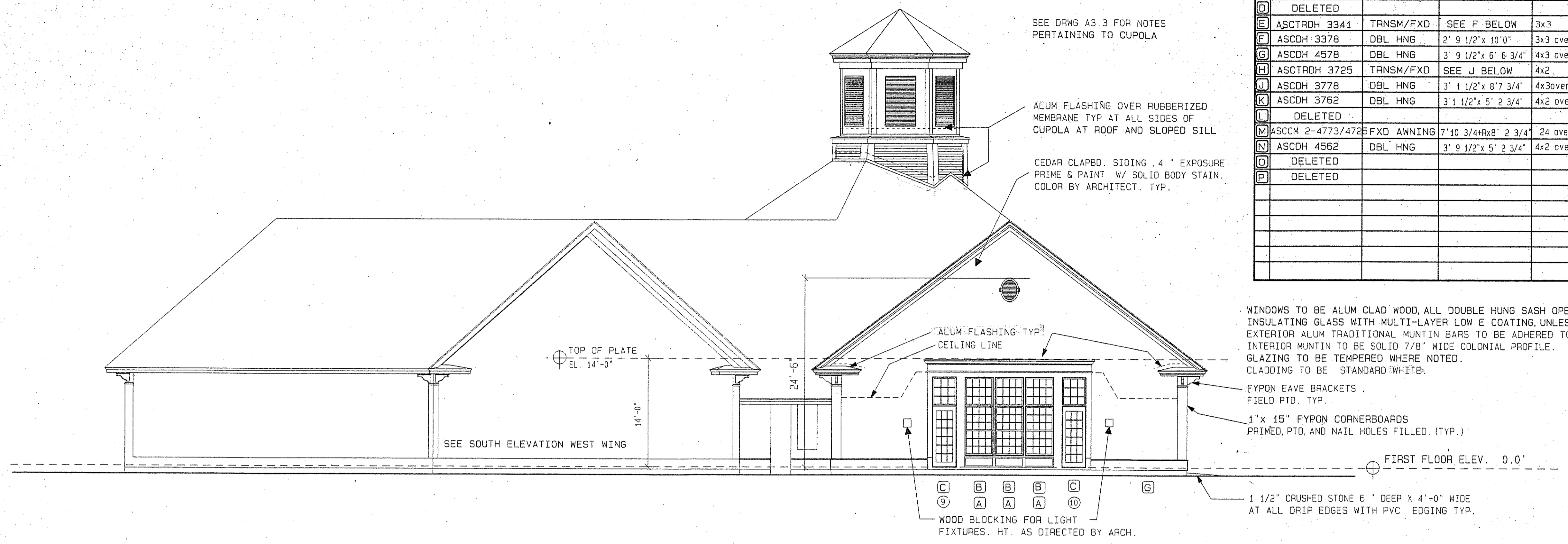
DOOR & FRAME SCHEDULE

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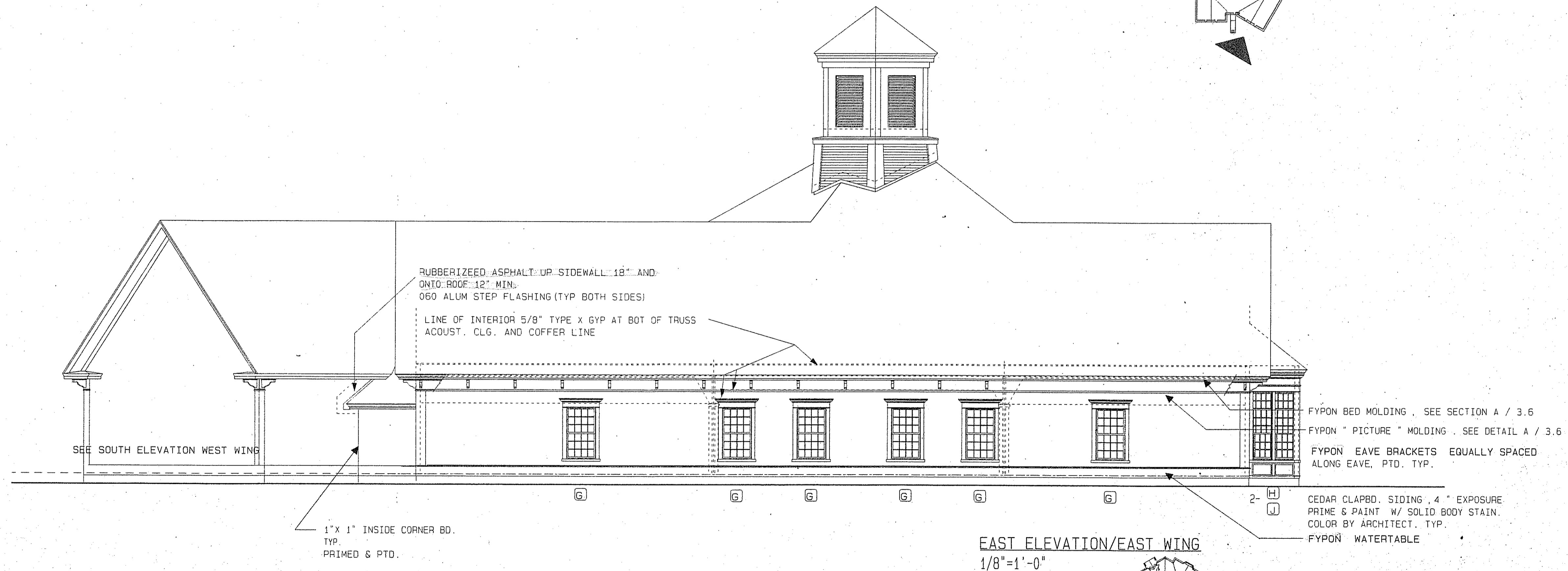
date: 7/18/96  
proj. no. 96-129

A 2.5

MODEL	TYPE	R.O. (W x H)	MUNTIN PAT	DWG. REF.	NOTE
A ASCDH 4578	DBL HNG	SEE B BELOW	4x3 over 4x3	CHILDRENS/PERIODCL	TEMPERED
B ASCTRDH 4541	TRNSM/FXD	3' 9 1/2" x 10' 0"	4x3	CHILDRENS/PERIODCL	NON-TEMP
C ASCTRDF 3841	DR TRNSM	3' 2 13/16" x 11' 5"	3x3	DOORS 07, 08, 09, 10	NON-TEMP
D	DELETED				
E ASCTRDH 3341	TRNSM/FXD	SEE F BELOW	3x3	MULTI-PURPOSE	NON-TEMP
F ASCDH 3378	DBL HNG	2' 9 1/2" x 10' 0"	3x3 over 3x3	MULTI-PURPOSE	NON-TEMP
G ASCDH 4578	DBL HNG	3' 9 1/2" x 6' 6 3/4"	4x3 over 4x3	VARIES	NON-TEMP
H ASCTRDH 3725	TRNSM/FXD	SEE J BELOW	4x2	NON-FICTION	NON-TEMP
J ASCDH 3778	DBL HNG	3' 1 1/2" x 6' 7 3/4"	4x3 over 4x3	NON-FICTION	NON-TEMP
K ASCDH 3762	DBL HNG	3' 1 1/2" x 5' 2 3/4"	4x2 over 4x2	TECH SERV.	NON-TEMP
L	DELETED				
M ASCCM 2-4773/4725	FXD AWNING	7' 10 3/4" x 8' 2 3/4"	24 over 8	CUPOLA	CLR IG/NONTEMP
N ASCDH 4562	DBL HNG	3' 9 1/2" x 5' 2 3/4"	4x2 over 4x2	MULTIPURPOSE	NON-TEMP
O	DELETED				
P	DELETED				

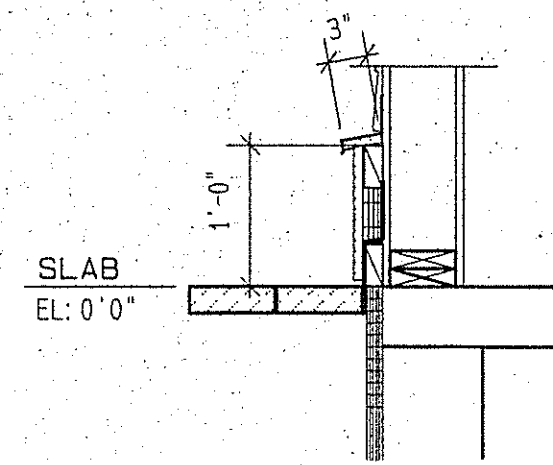


SOUTH ELEVATION/EAST WING  
 1/8" = 1'-0"



EAST ELEVATION/EAST WING  
 1/8" = 1'-0"





DETAIL AT WATERTABLE AT ENTRY  
SCALE: 3/4"=1'-0"

TYPICAL EXT. WALL WITH CEDAR SHINGLES  
.060 ALUM OVER WOOD SILL SLOPED TO 10 DEG.  
BACKPRIMED FYPON FLAT STOCK TRIMMED TO 12"  
2-2X4 CONTINUOUS NAILERS WITH LOWER PIECE PRESSURE TREATED  
.060 ALUM FLASHING OVER RUBBERIZED ASPHALT FLASHING  
EXTEND FLASHING BELOW SLAB AND PAVER ELEV.  
TRIM WATERTABLE 1" ABOVE PAVER ELEV.  
FILL WATERTABLE VOID WITH RIGID EXTRUDED POLYSTYRENE  
FIT FOUNDATION INSUL TIGHT TO NAILER  
SEE SECTIONS FOR TYP WATERTABLE HEIGHT.

WEATHERVANE AND SHAFT BY OWNER.  
GC TO PROVIDE BLOCKING, 1 1/4" STL SLEEVE  
AT PEAK WITH SEALED AND CAULKED JOINT.  
PROVIDE THRUST BLOCK AT CEILING JOIST ELEV.  
DIMEN. APPROX PENDING DESIGN BY OWNER.

ALUM FLASHING UP SIDEWALL 12" MIN.  
OVER RUBBERIZED ASPHALT UNDERLYMT  
TYP AT ALL SIDES AT ROOF AND SLOPED  
ALUM SILL.

ASPHALT SHINGLES TYP.  
FYPON RAKE TRIM, FIELD PTD. TYP.  
WH. ALUM FLASHING TYP.

PLATE HT. ELEV. 14'-0"

FYPON EAVE BRACKETS,  
FIELD PTD. TYP.

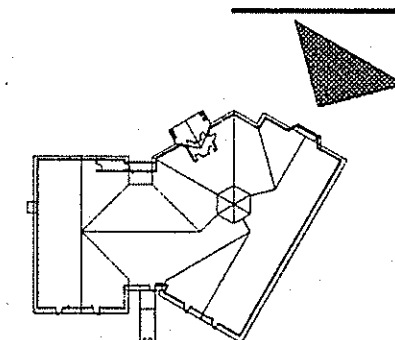
CEDAR CLAPBD. SIDING .4" EXPOSURE  
PRIME & PAINT W/ SOLID BODY STAIN.  
COLOR BY ARCHITECT. TYP.

FIRST FLOOR ELEV. 0.0'

7 UNITS: H TRANSOM OVER J DH.

NORTH ELEVATION / EAST WING

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



240# ASPHALT SHINGLES  
WATERPROOF UNDERLAYMENT  
OVER ENTIRE ROOF  
WHITE ALUM DRIP

FYPON CROWN No. 905  
1x6 FASCIA, 1x6 SOFFIT  
1x8 FRIEZE

1x10 CORNER BOARDS  
ALL FYPON PRIMED AND PTD.

ALUM. LOUVERS  
FYPON FLAT STOCK@WALL  
ALUM SILL SLOPED AND MITERED  
AT BASE. FIN TO BE WHITE BKD. EN.  
1x6 TRIM UNDER SILL

1/2" X 6 CEDAR BEVEL SIDING PRIMED & PTD  
AT DRUM WITH 1x10 CORNERBOARDS.  
12" ALUM FLASHING AND CTR. FLASHING AT  
SILL AND ROOF. RUN RFG UNDERLYMT CONTINUOUS  
DOWN ROOF 12" AND UP DRUM 12" (TYP AT ALL SIDES)

TYP FYPON RAKE  
32" DIA. FYPON OPEN LOUVER  
MODEL NO. 660K-30  
WHITE CEDAR SHINGLE SIDING  
1x11 FYPON FLAT TRIM FOR FRIEZE  
TYP APPLIED BED MOLDING

DETAIL PLAN AT CUPOLA

2x6" WD STUD FRAME DOWN TO TRUSS PLATFORM  
2x8" RAFTERS, 2x10" HIPS, 2x6" CEILING JOISTS  
CROSS BRACE FRAME TO TRUSSES BELOW  
6 PREFINISHED ALUM. LOUVERS  
4'-0" X 6'-5 1/2" H. PROVIDE STORMPROOF FIXED BLADE DRAINABLE  
WITH SILL FLASHING AND INSECT SCREEN.  
WALL LINE AT LOWER DRUM  
ALUM SILL WITH WHITE BAKED ENAMEL FIN SLOPED @ 15 DEGREES.  
ROOF LINE ABOVE

FYPON RAKE TRIM, FIELD PTD. TYP.  
WH ALUM FLASHING TYP.

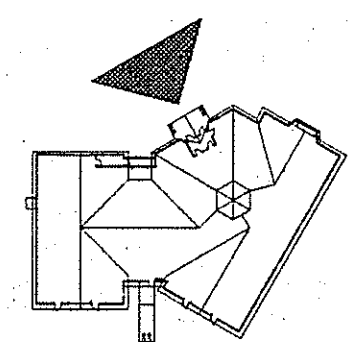
PLATE HT. ELEV. 14'-0"

CEILING @ VESTIBULE ELEV. 9'-0"  
2 FYPON EAVE BRACKETS AT EACH CORNER  
FIELD PTD. TYP.

FIRST FLOOR ELEV. 0.0'

ENTRY ELEVATION

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



SEE DETAIL ABOVE FOR WATERTABLE AT AREAS ADJACENT  
TO PAVERS

K WINDOWS WITH 8" FYPON HEAD CASING AND APPLIED 2" CROWN  
5" FLAT JAMB CASING  
ALUM SILL EXTENSION

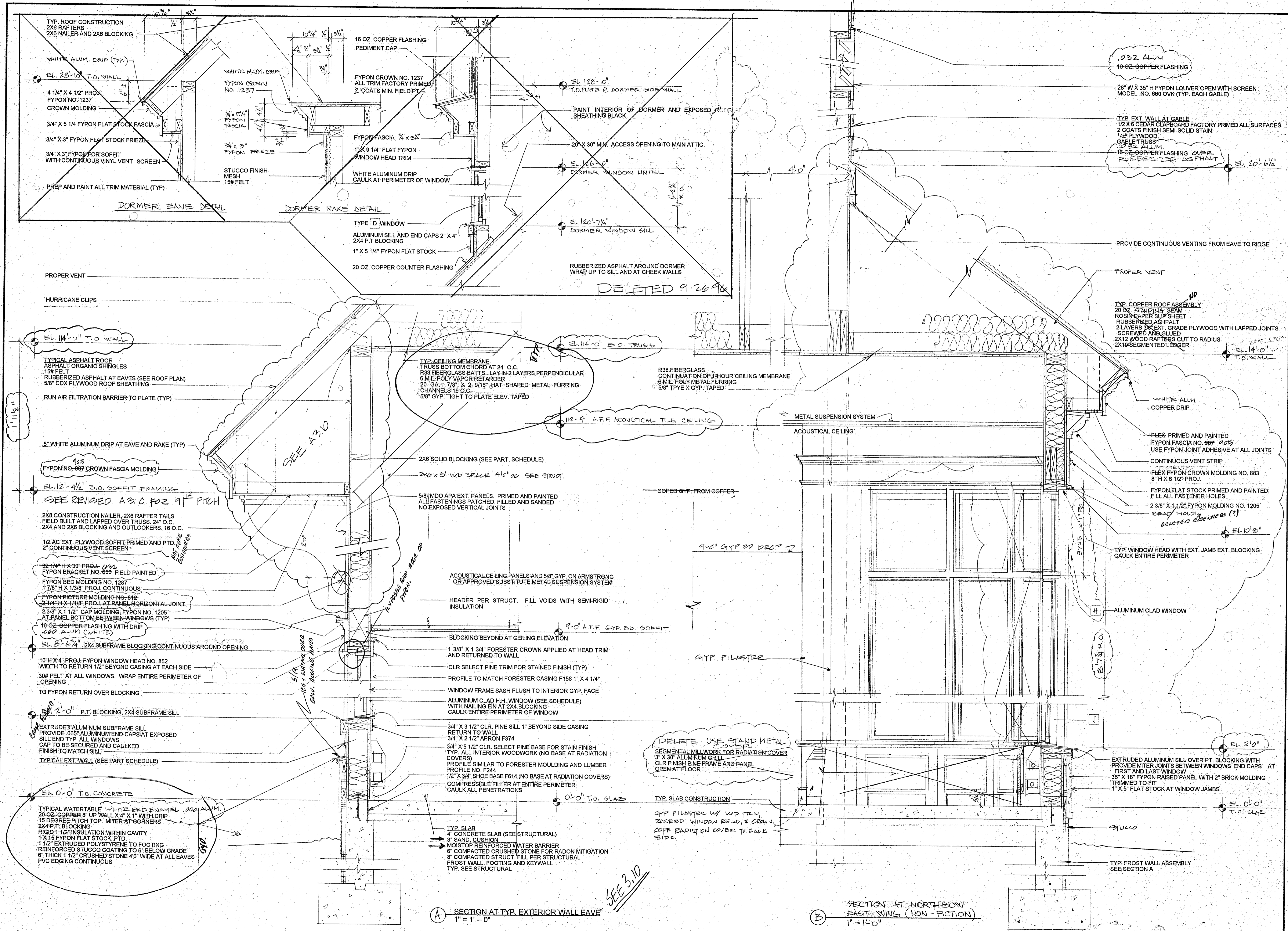
R+R PRESTAINED K.D. WHITE CEDAR SHINGLES OVER TYP. EXTERIOR WALL  
PROVIDE WOVEN CORNERS OVER 30# FELT  
WATERTABLE AND FLASHING

ALUM FLASHING AND ASPHALT ROOF  
5 1/2" WHITE ALUM COPING  
1'4" PTD FYPON FASCIA PANEL

SEE WEST WING NORTH ELEVATION

SEE WEST WING WEST ELEVATION





032 ALUM  
16 OZ. COPPER FLASHING

28" W X 35" H FYPON LOUVER OPEN WITH SCREEN  
MODEL NO. 660 OVK (TYP. EACH GABLE)

TYP. EXT. WALL AT GABLE  
1/2" X 3/8" CEDAR CLAPBOARD FACTORY PRIMED ALL SURFACES  
2 COATS FINISH SEMI-SOLID STAIN  
1/2" PLYWOOD GABLE TRUSS  
032 ALUM  
16 OZ. COPPER FLASHING OVER RUBBERIZED ASPHALT

PROVIDE CONTINUOUS VENTING FROM EAVE TO RIDGE

TYP. COPPER ROOF ASSEMBLY  
20 OZ. STANDING SEAM ROBIN PAPER SLIP SHEET  
RUBBERIZED ASPHALT  
2 LAYERS 3/4" EXT. GRADE PLYWOOD WITH LAPPED JOINTS  
SCREWED AND GLUED  
2X12 WOOD RAFTERS CUT TO RADIUS  
2X10 SEGMENTED LEDGER

FLEX. PRIMED AND PAINTED FYPON FASCIA NO. 907 905  
USE FYPON JOINT ADHESIVE AT ALL JOINTS  
CONTINUOUS VENT STRIP  
FLEX FYPON CROWN MOLDING NO. 883  
8" H X 6 1/2" PROJ.

FYPON FLAT STOCK PRIMED AND PAINTED  
FILL ALL FASTENER HOLES  
2 3/8" X 1 1/2" FYPON MOLDING NO. 1205  
BRASS MOLDING  
DELETED EDGE VENEER (!?)

TYP. WINDOW HEAD WITH EXT. JAMB EXT. BLOCKING  
CAULK ENTIRE PERIMETER

EXTRUDED ALUMINUM SILL OVER PT. BLOCKING WITH  
PROVIDE MITER JOINTS BETWEEN WINDOWS END CAPS AT  
FIRST AND LAST WINDOW  
38" X 18" FYPON RAISED PANEL WITH 2" BRICK MOLDING  
TRIMMED TO FIT  
1" X 5" FLAT STOCK AT WINDOW JAMBS

TYP. FROST WALL ASSEMBLY  
SEE SECTION A

TYPE D WINDOW  
ALUMINUM SILL AND END CAPS 2" X 4"  
2X4 P.T. BLOCKING  
1" X 5 1/4" FYPON FLAT STOCK  
20 OZ. COPPER COUNTER FLASHING

TYP. CEILING MEMBRANE  
TRUSS BOTTOM CHORD AT 24" O.C.  
R38 FIBERGLASS BATTS. LAY IN 2 LAYERS PERPENDICULAR  
6 MIL. POLY VAPOR RETARDER  
20 GA. 7/8" X 2 3/16" HAT. SHAPED METAL FURRING  
CHANNELS 18 O.C.  
5/8" GYP. TIGHT TO PLATE ELEV. TAPED

R38 FIBERGLASS  
CONTINUATION OF 1-HOUR CEILING MEMBRANE  
6 MIL. POLY METAL FURRING  
5/8" TYP X GYP. TAPED

112-4 A.F.F. ACOUSTICAL TILE CEILING

ACOUSTICAL CEILING PANELS AND 5/8" GYP. ON ARMSTRONG  
OR APPROVED SUBSTITUTE METAL SUSPENSION SYSTEM

BLOCKING BEYOND AT CEILING ELEVATION  
1 3/8" X 1 3/4" FORESTER CROWN APPLIED AT HEAD TRIM  
AND RETURNED TO WALL

CLR SELECT PINE TRIM FOR STAINED FINISH (TYP.)  
PROFILE TO MATCH FORESTER CASING F158 1" X 4 1/4"

WINDOW FRAME SASH FLUSH TO INTERIOR GYP. FACE  
ALUMINUM CLAD H.H. WINDOW (SEE SCHEDULE)  
WITH NAILING FIN AT 2X4 BLOCKING  
CAULK ENTIRE PERIMETER OF WINDOW

3/4" X 3 1/2" CLR. PINE SILL 1" BEYOND SIDE CASING  
RETURN TO WALL  
3/4" X 2 1/2" APRON F374

3/4" X 5 1/2" CLR. SELECT PINE BASE FOR STAIN FINISH  
TYP. ALL INTERIOR WOODWORK (NO BASE AT RADIATION  
COVERS)  
PROFILE SIMILAR TO FORESTER MOLDING AND LUMBER  
PROFILE NO. F244

1/2" X 3/4" SHOE BASE F614 (NO BASE AT RADIATION COVERS)  
COMPRESSIBLE FILLER AT ENTIRE PERIMETER  
CAULK ALL PENETRATIONS

TYP. SLAB  
4" CONCRETE SLAB (SEE STRUCTURAL)  
3" SAND CUSHION  
MOIST PROOF REINFORCED WATER BARRIER  
6" COMPACTED CRUSHED STONE FOR RADON MITIGATION  
8" COMPACTED STRUCT. FILL PER STRUCTURAL  
FROST WALL, FOOTING AND KEY WALL  
TYP. SEE STRUCTURAL

A SECTION AT TYP. EXTERIOR WALL EAVE  
1" = 1'-0"

B SECTION AT NORTH BOW  
EAST WING (NON-FUNCTION)  
1" = 1'-0"

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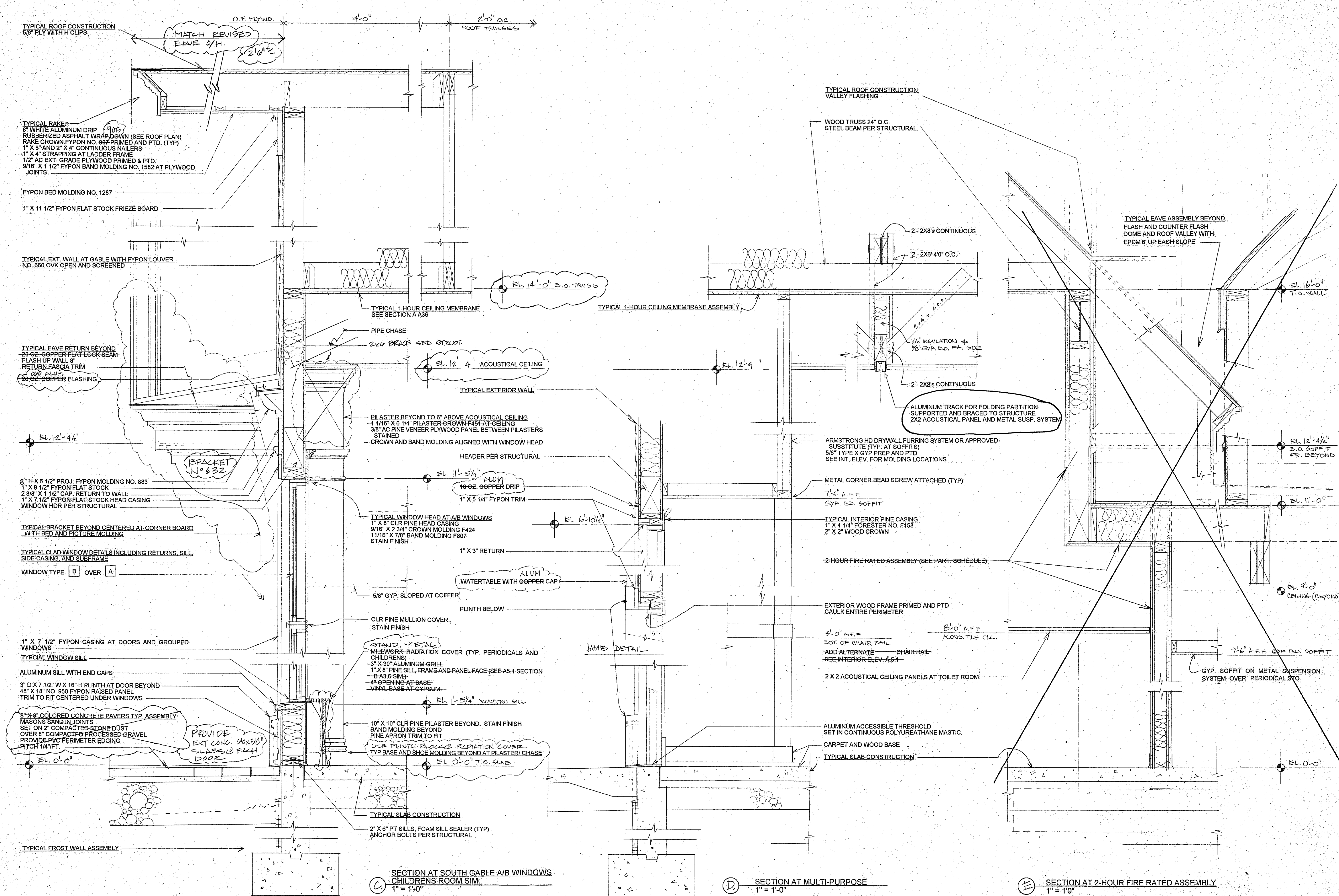
WALL SECTIONS  
A & B  
1" = 1'-0"

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A3.5 DELETED

A3.6



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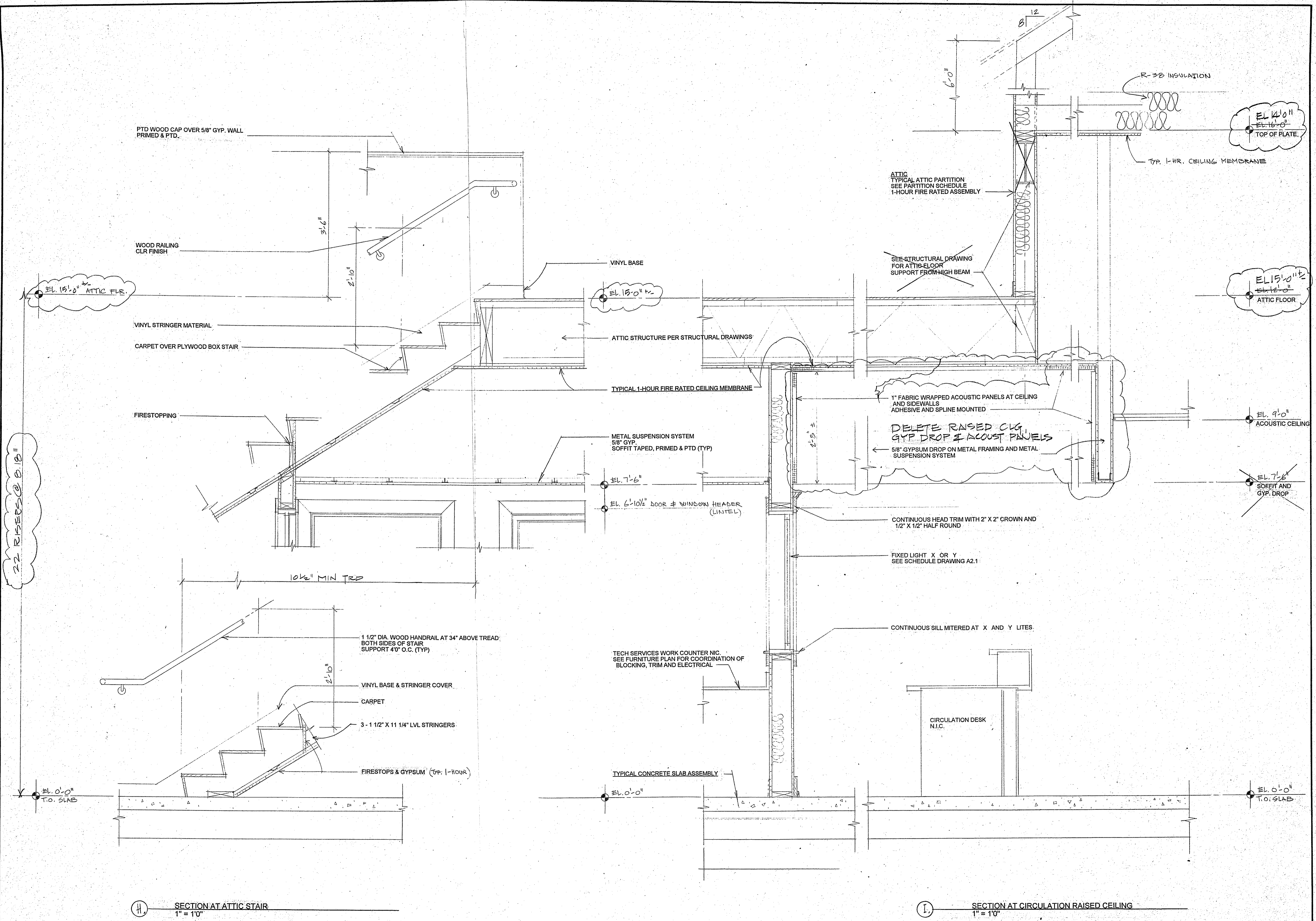
WALL SECTIONS  
 C, D & E  
 1" = 1'-0"

REVISIONS  
 10.9.90

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 proj. no. 96-129

**A3.7**

DELETE 2HR. FR. ASSEMBLY,  
 CONSTRUCT WALLS AS 1HR. FR. ASSEMBLY @  
 BEARING WALL.



H SECTION AT ATTIC STAIR  
1" = 10"

I SECTION AT CIRCULATION RAISED CEILING  
1" = 10"

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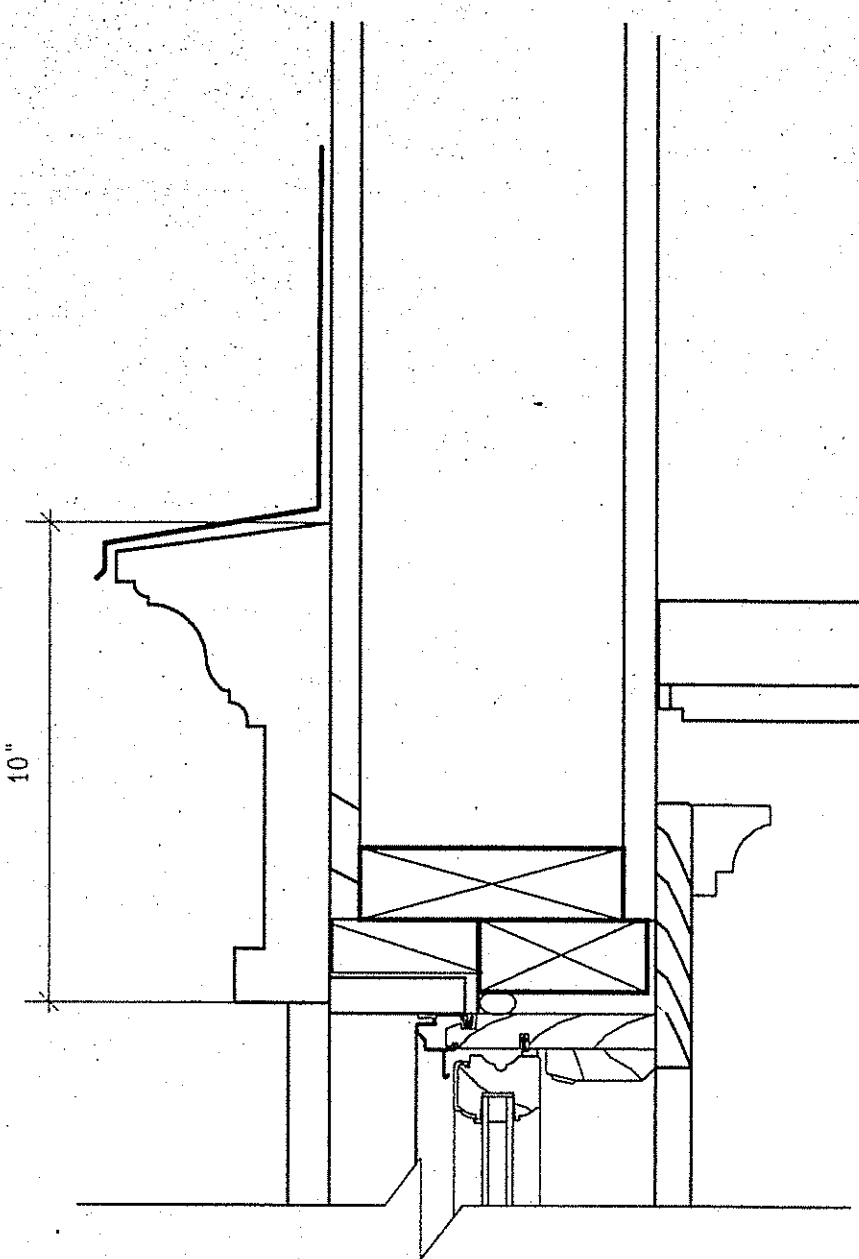
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WALL SECTIONS  
H & I  
1" = 10"

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10.9.96

date: 7.18.96  
proj. no. 96-129

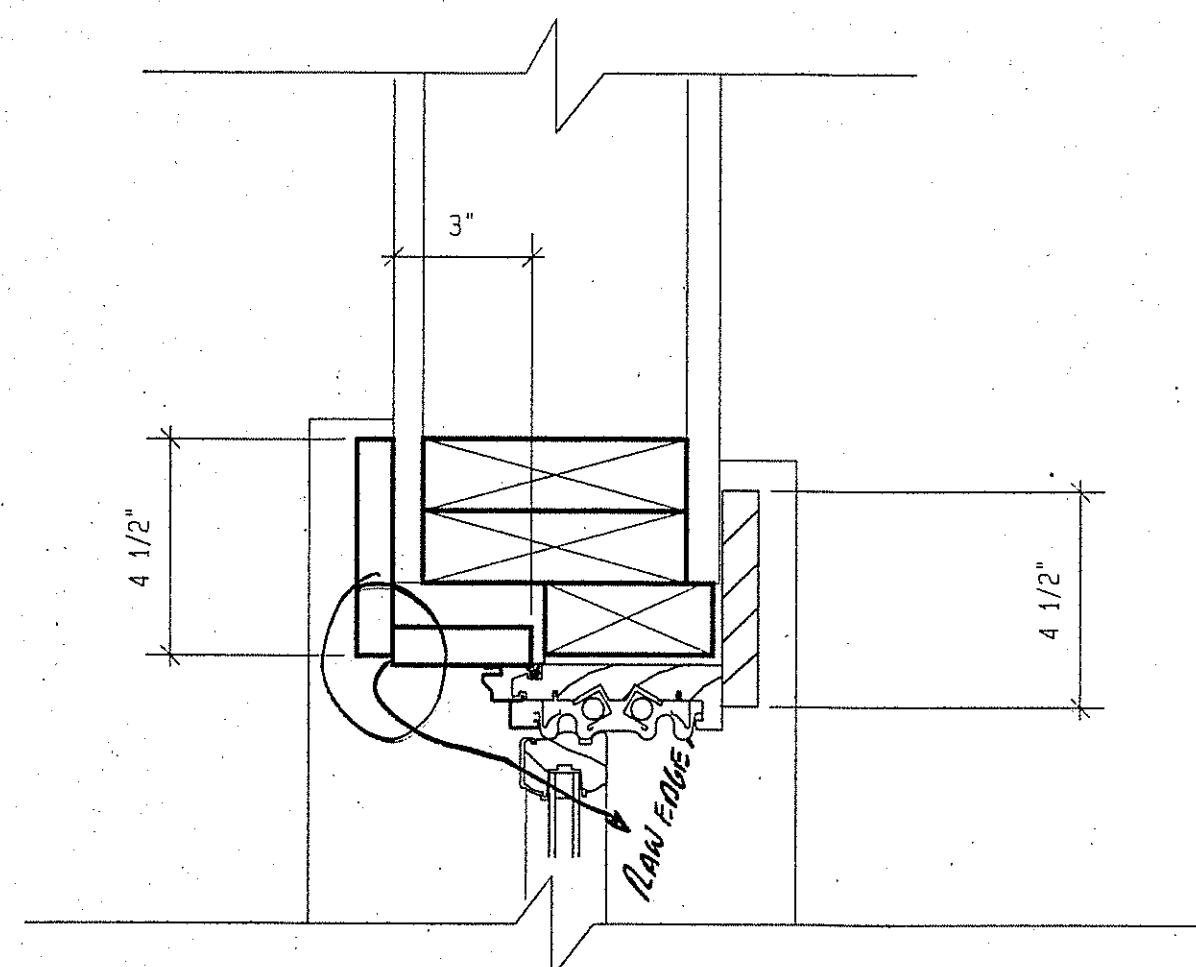
A3.8 DELETED  
A3.9



ALUM CLAD WINDOWS W/TRADITIONAL MUNTIN PATTERN AND INSTALLATION FIN

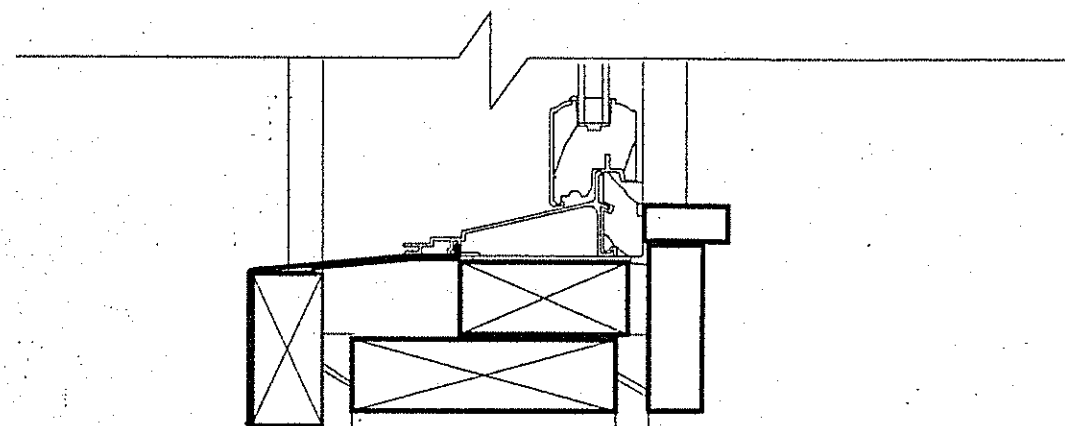
TYP. ALUM. CLAD WINDOW HEAD:

- FYPON 852 WINDOW CROSSHEAD W/BOTTOM TRIM
- 3/4" X 3" POLYMER FLAT TRIM JAMB AND HEAD RETURN SEALANT, BACKER ROD, AND INSULATION WITHIN CAVITY
- 2X4 WD CONTINUOUS BLOCKING SUBFRAME @FULL PERIMETER



JAMB DETAIL:

- 3/4" X 4 1/2" POLYMER FLAT JAMB CASING @EXT. CLEAR FINISH. WD TRIM @INTERIOR.



SILL DETAIL:

- ALUM. CLAD WINDOW SILL ON 2X4 SUBFRAME
- EXTRUDED ALUM SUBFRAME SILL (0.065") OVER 2X4 BLKG.
- 3/4" X 4" CLEAR FINISH WD INT. APRON W/SILL
- CAULK ENTIRE PERIMETER OF WINDOW AND TRIM.
- PROVIDE ALUM END CAPS (0.065") AT SILL.

WINDOW DETAILS

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

READ WITH A3.6

- R 38 FIBERGLASS INSULATION
- 6 MILL POLY VAPOR RETARDER
- 20 ga. 7/8" X 2 9/16" HAT SHAPED METAL FURRING CHANNELS @16" OC
- 5/8" TYPE X GYP TAPED AND FINISHED
- SEE A 3.6

PROPER VENT AT PLATE

TOP OF PLATE  
EL. 14'-0"

- TYPICAL ROOF AND EAVE CONSTRUCTION:
- ASPHALT SHINGLES OVER RUBBERIZED ASPHALT 9'-0" UP ROOF
  - ALUM DRIP WITH WHITE BAKED ENAMEL FINISH
  - FYPON CROWN NO. 905 7 3/4" H X 5 3/4" PROJ. PRIMED AND PTD.
  - 2X6 AND 2X4 CONTINUOUS BLOCKING ON WD TRUSSES 24" OC.

- 3/8" PTD PLYWD SOFFIT WITH 2X4 NAILERS 16" OC
- 2" CONTINUOUS WHITE ALUM VENT STRIP

- FYPON BRACKET NO 632 : 13 1/2" H X 3 3/4" W X 20 5/8" PROJ. @ 6'-0" OC
- EQUALLY SPACED AND AT CORNERS.
- 2 1/4" FYPON MOLDING NO 1287

- 5/8" MDO APA EXT GRADE PANELS. PRIMED AND PAINTED.
- ALL FASTENINGS SET, FILLED, AND SANDED. NO EXPOSED VERT JOINTS.

- FYPON NOSING NO. 1205 : 2 3/8" H X 1 1/2" PROJ.

- TYP. CEDAR CLPBD SIDING OVER TYP EXT WALL CONST. PER ORIGINAL DWGS

- .060 ALUM FLASHING WITH WHITE BAKED ENAMEL FINISH

- TYP WINDOW FLASHING AND FYPON HEAD TRIM PER ORIGINAL DWGS

SEE WINDOW DETAILS FOR SUBFRAME, FIN, AND JAMB CONDITIONS

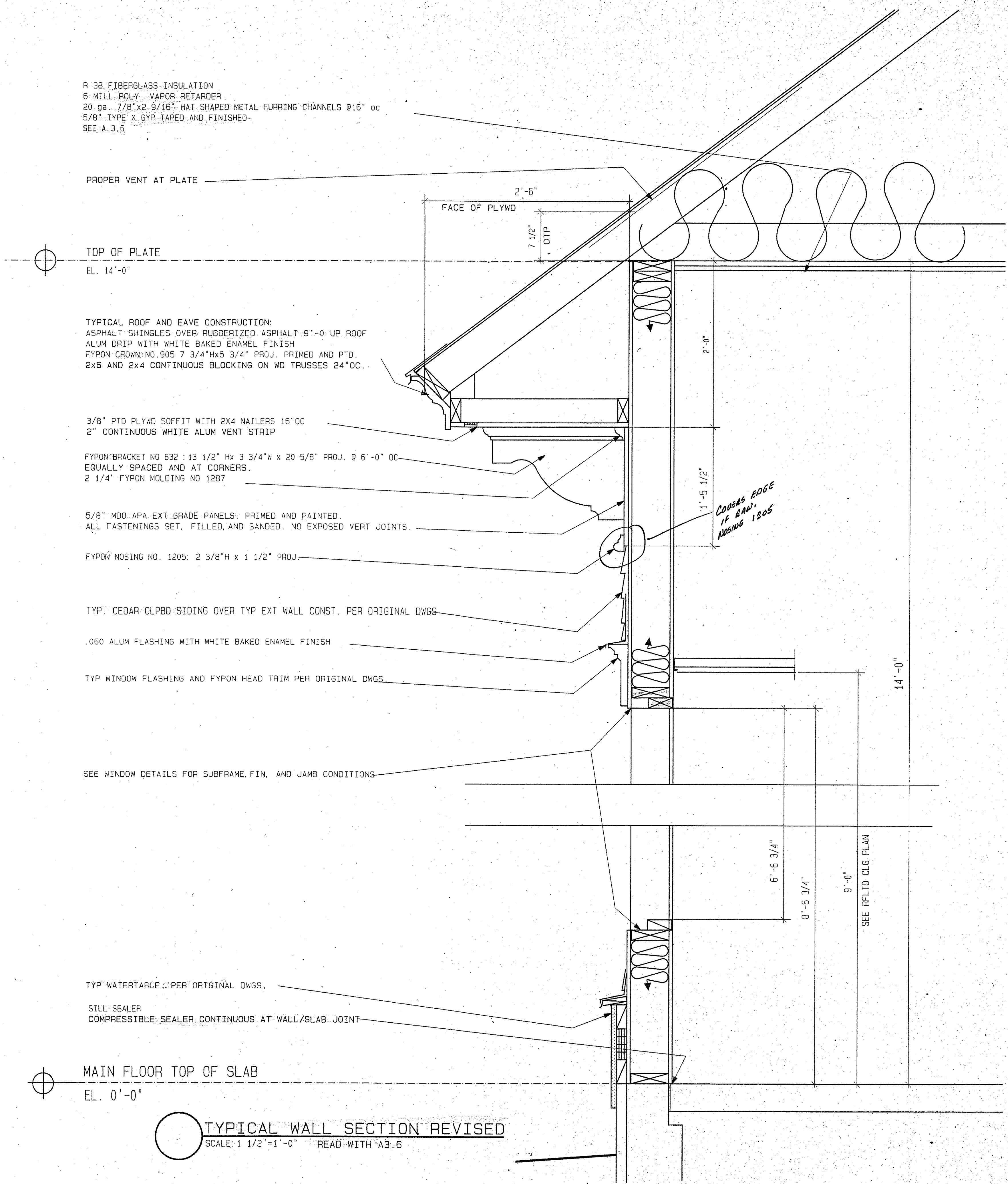
- TYP WATERTABLE PER ORIGINAL DWGS.

- SILL SEALER
- COMPRESSIBLE SEALER CONTINUOUS AT WALL/SLAB JOINT

MAIN FLOOR TOP OF SLAB  
EL. 0'-0"

TYPICAL WALL SECTION REVISED

SCALE: 1 1/2"=1'-0" READ WITH A3.6



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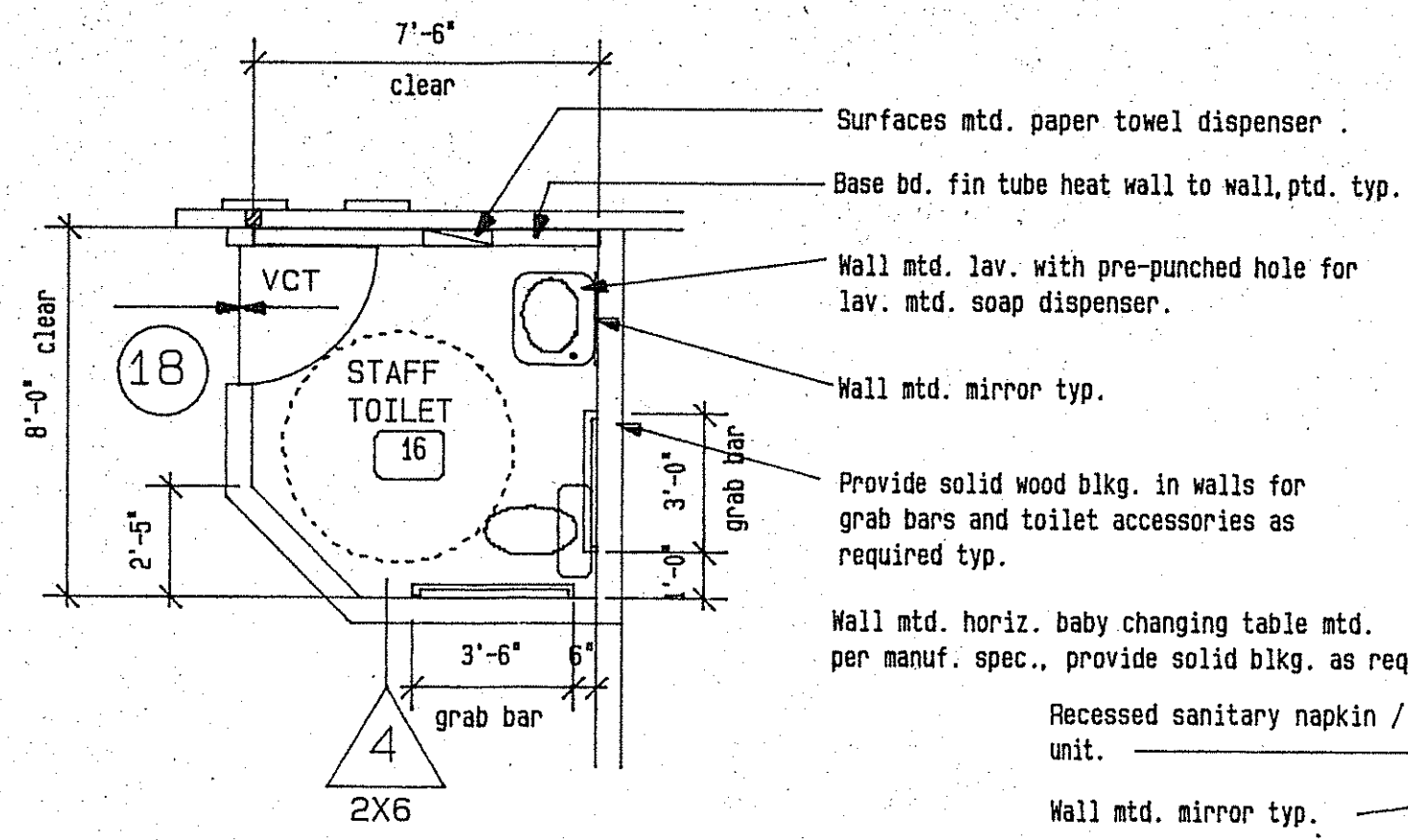
WALL SECTION  
WINDOW  
DETAILS  
SCALE AS NOTED

REVISION:  
10/9/96

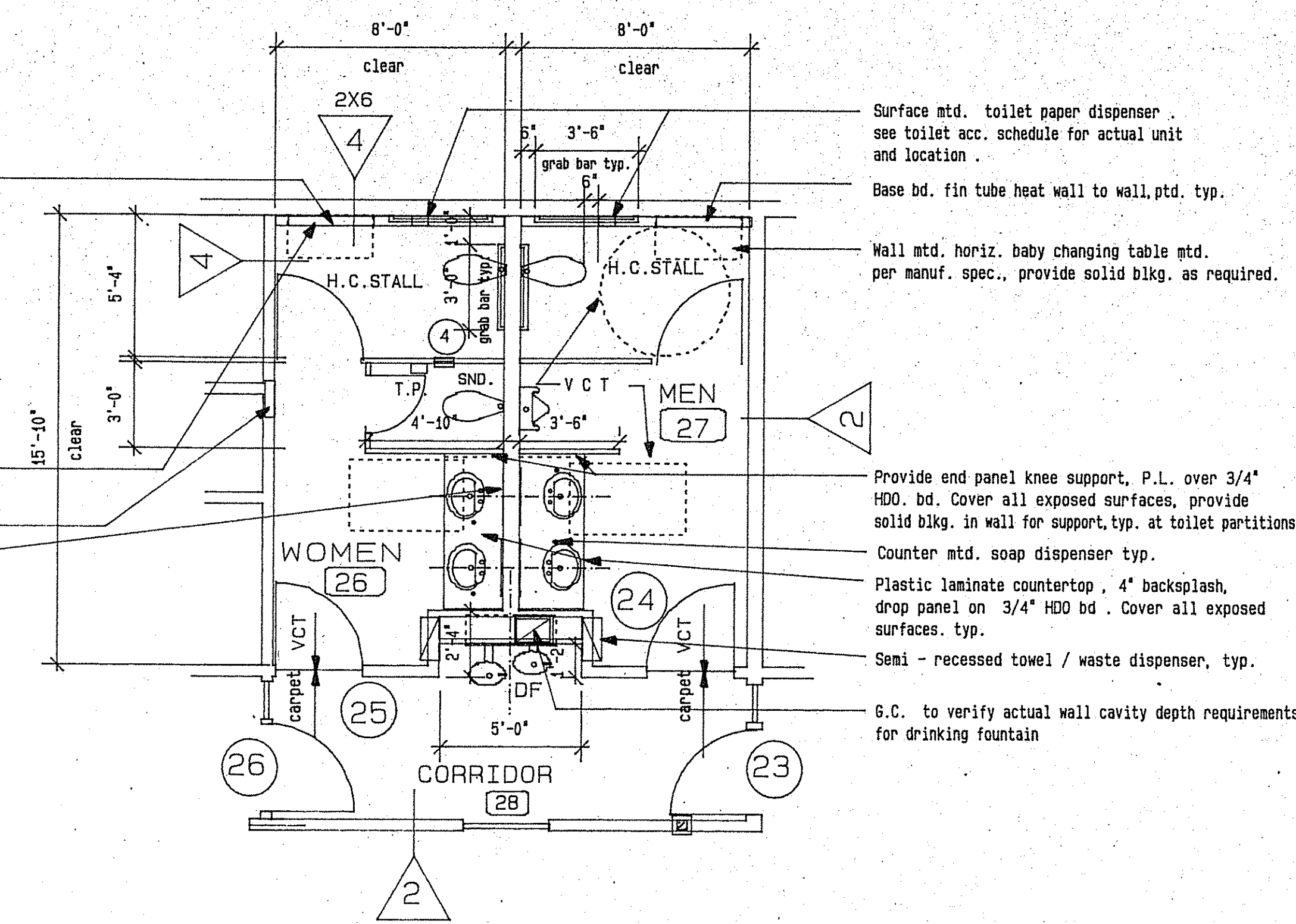
date: 9/16/96  
proj. no. 96-129

A3.10





**STAFF TOILET ROOM**  
scale 1/4" = 1'-0"



**TOILET ROOM PLAN**  
scale 1/4" = 1'-0"

ALTERNATE # \_\_\_\_\_ ; Toilet rooms #26 & #27, provide and install ceramic tile on all walls to 5'-0" A.F.F., top tile to bullnose edge.

**TOILET ACCESSORIES SCHEDULE**

NO.	MANUF.	DESCRIPTION	MODEL NO.	MOUNTING HT.	LOCATION
1	BOBRICK	36" grab bars	B - 6206.99	36" A.F.F.	Rooms 16, 26, 27
2		42" grab bars	B - 6206.99	36" A.F.F.	Rooms 16, 26, 27
3		Surface mtd. toilet paper tissue holder	B - 2740	24" A.F.F.	Room 16, 26, 27
4		Sanitary napkin dispenser	B - 354	top @ 34" A.F.F.	Room 26
5		Mirror with shelf	B - 166 2436	bot. @ 40" A.F.F.	Room 16
6		Mirror	B - 165 2436	bot. @ 38" A.F.F.	Room 26, 27
7		Surface mtd. paper towel dispenser	B - 262	bot. @ 40" A.F.F.	Room 16
8		Semi-Recessed towel / waste disp.	B3944	top @ 60 1/2" A.F.F.	
9		Soap dispenser counter / sink mtd.	B - 822 ( 22.2N )		Room 16, 26, 27
10		Robe hook	B- 672	54" A.F.F. door mtd.	Room 16, 26, 27
11		Recessed napkin / tampon vendor	B - 3500x2	top of unit @ 54" A.F.F.	Room 26

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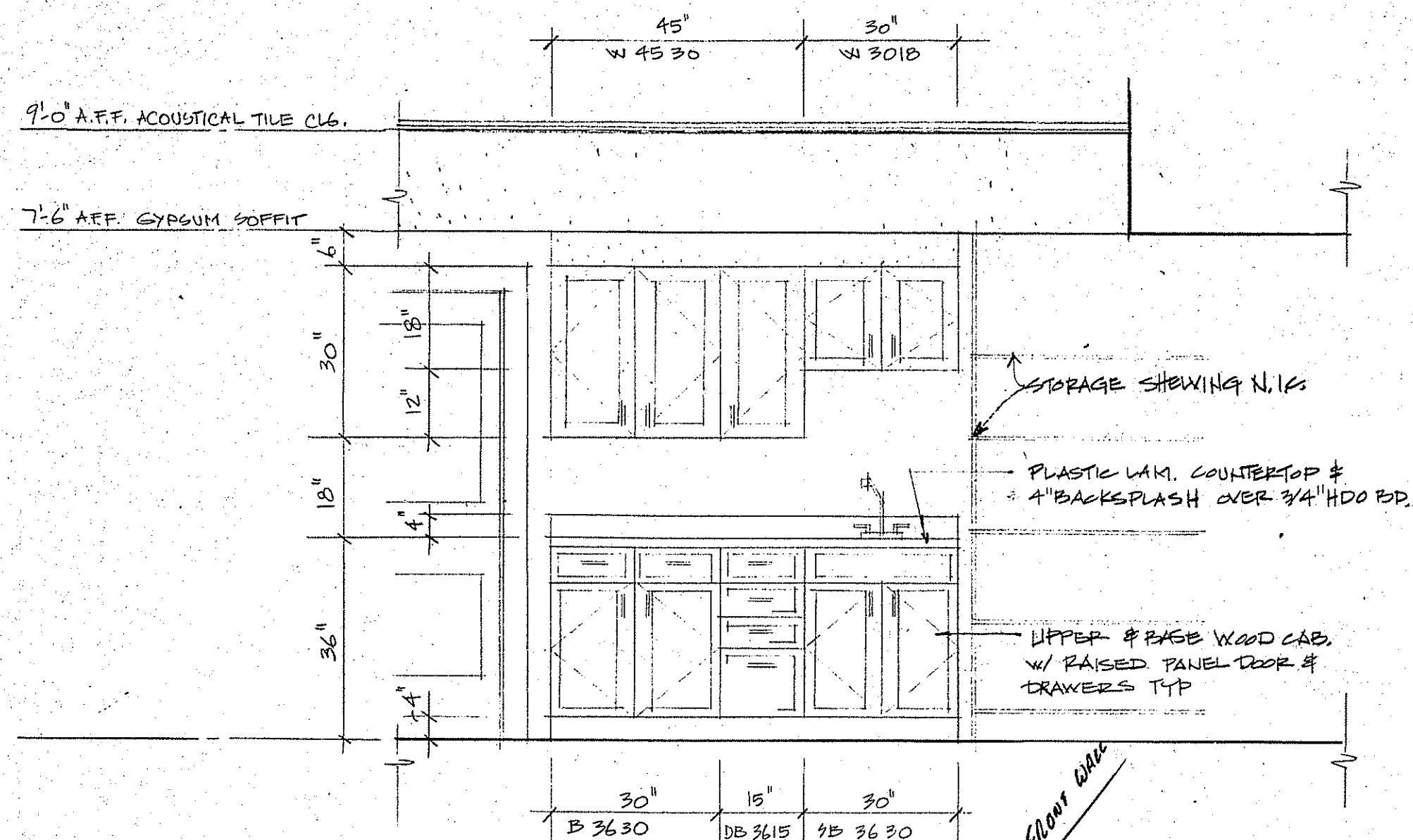
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Manchester New Hampshire

DETAIL PLANS  
SCALE AS NOTED

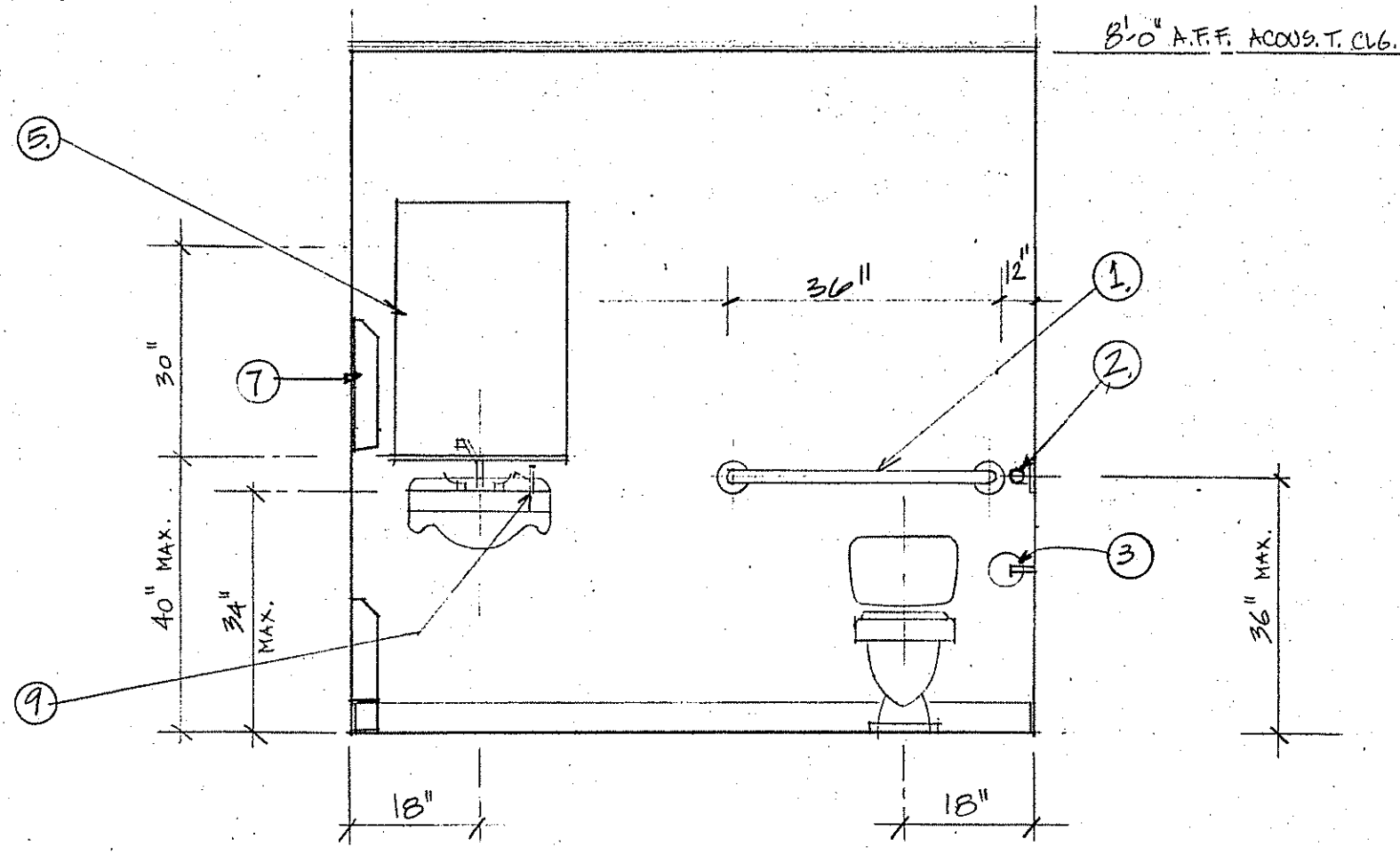
REVISIONS:

date: 7/18/96  
proj. no. 96.129

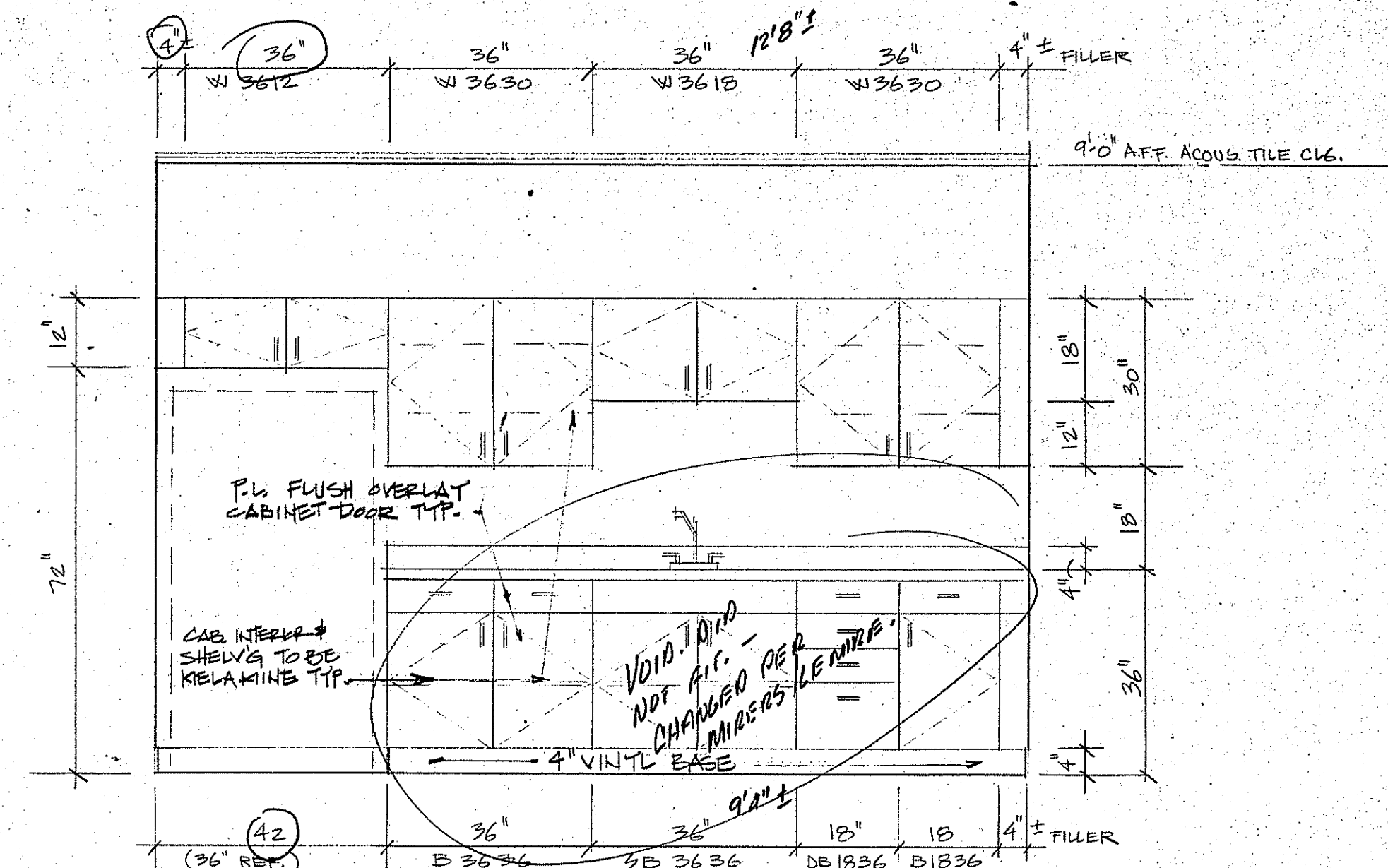
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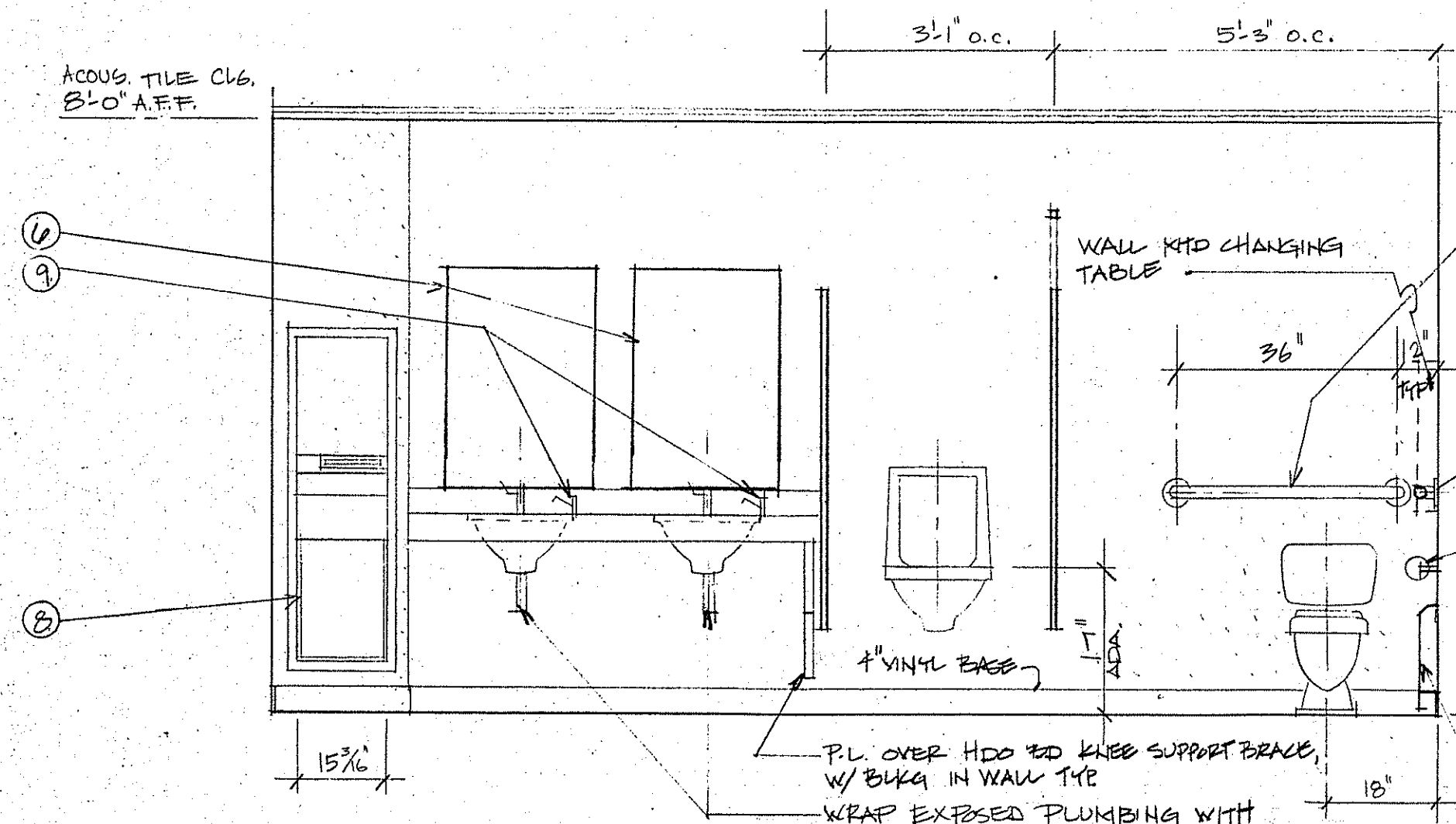
**ROOM # 13 - PERIODICAL STORAGE**  
1/2" = 1'-0"



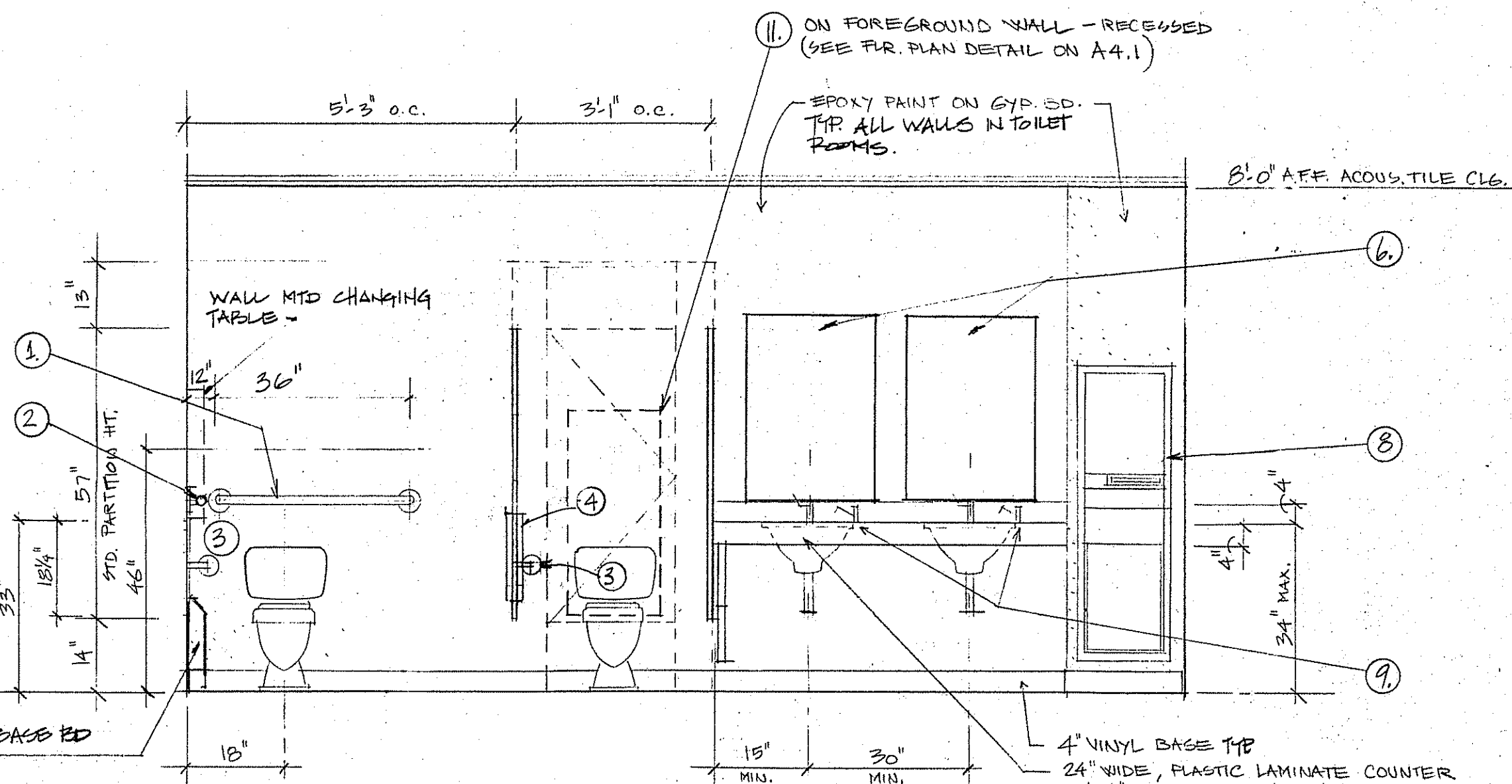
**ROOM # 16 - STAFF TOILET**  
1/2" = 1'-0"



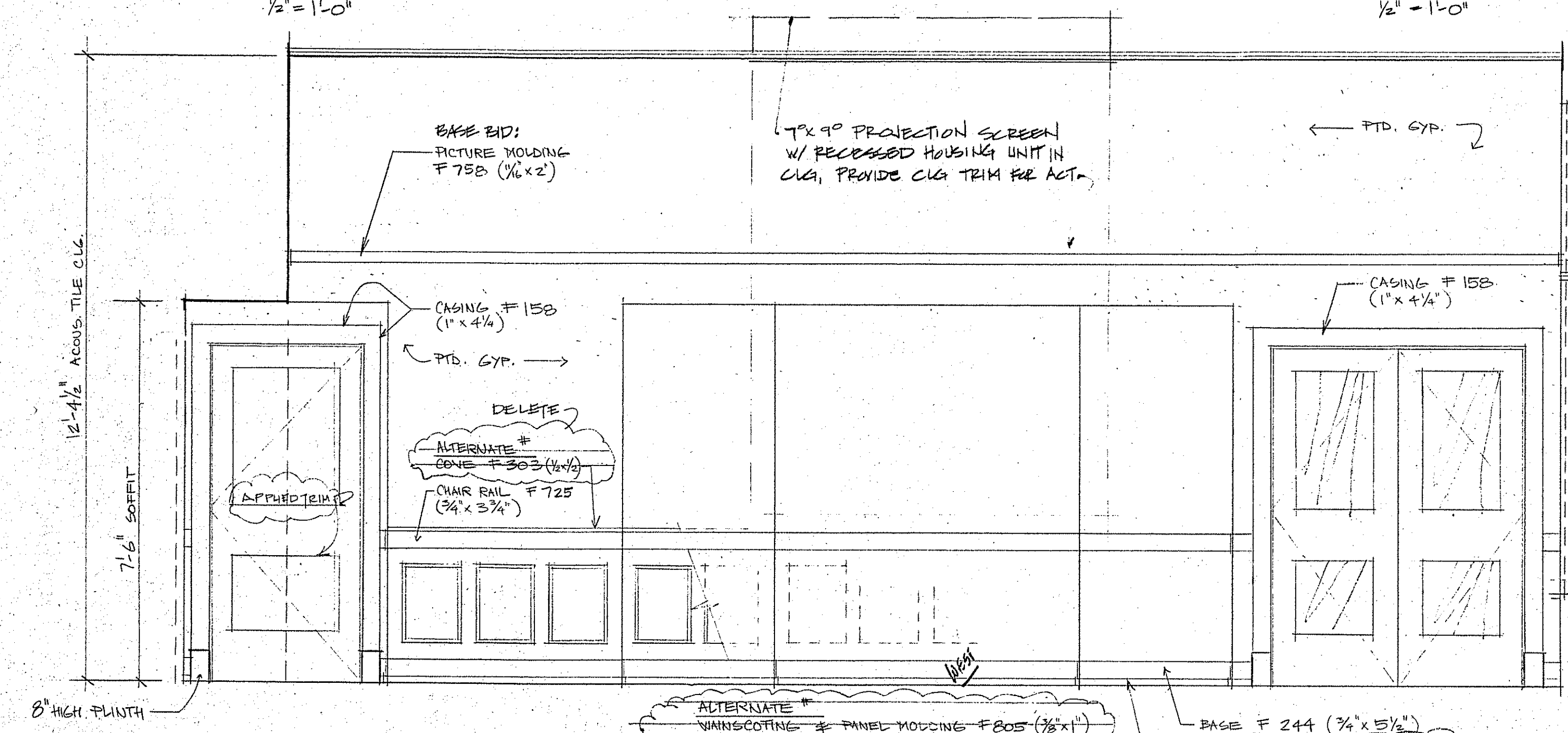
**ROOM # 15 - STAFF**  
1/2" = 1'-0"



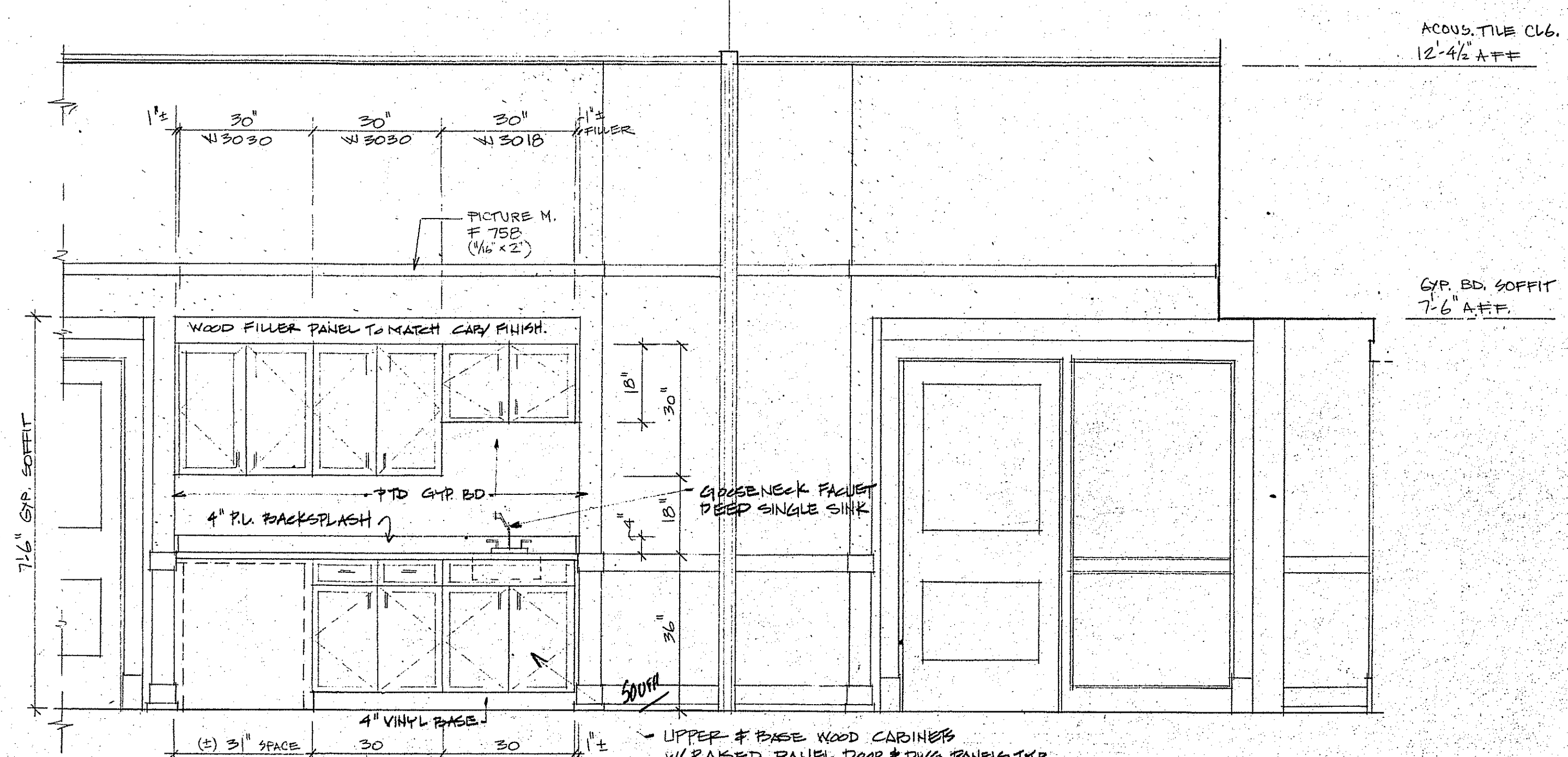
**ROOM # 27 - MEN TOILET**  
1/2" = 1'-0"



**ROOM # 26 - WOMEN TOILET**  
1/2" = 1'-0"



**ROOM # 20 - MULTIPURPOSE**  
1/2" = 1'-0"



**ROOM # 20 - MULTIPURPOSE**  
1/2" = 1'-0"

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Tel: 603.434.4444 Fax: 603.434.4447

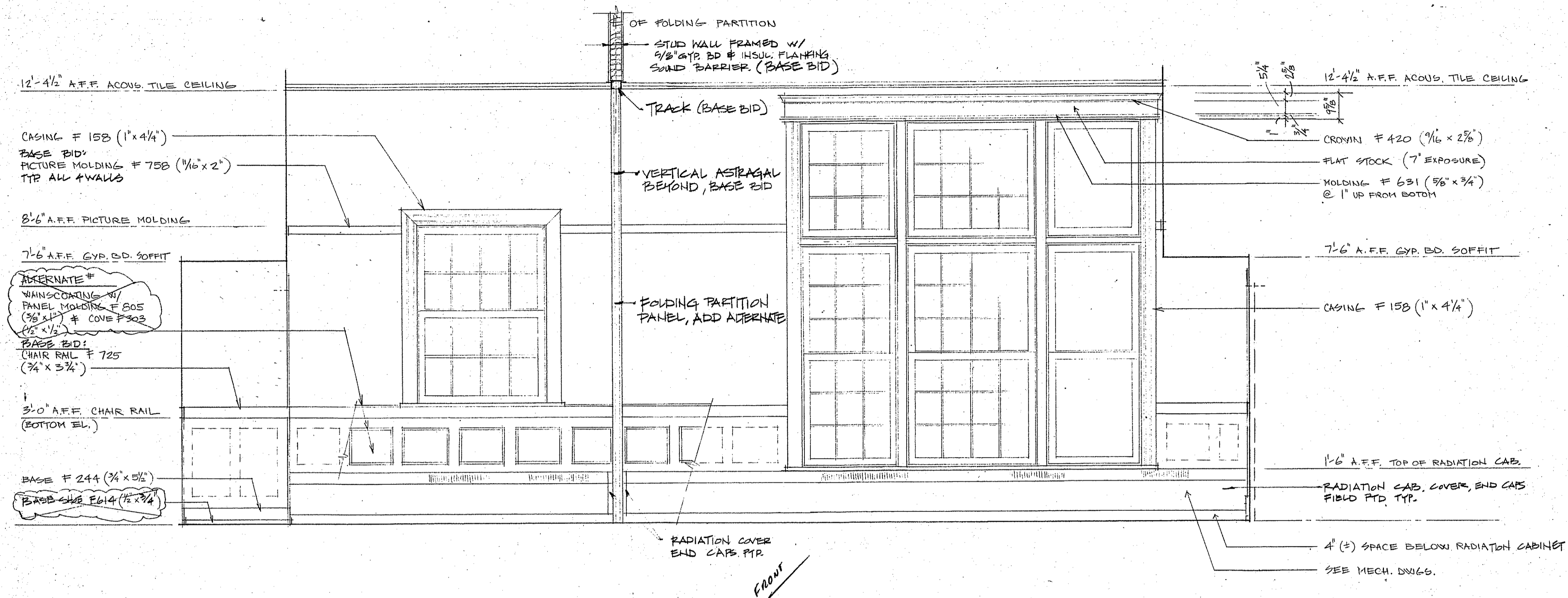
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**INTERIOR ELEVATIONS**  
SCALE 1/2" = 1'-0"

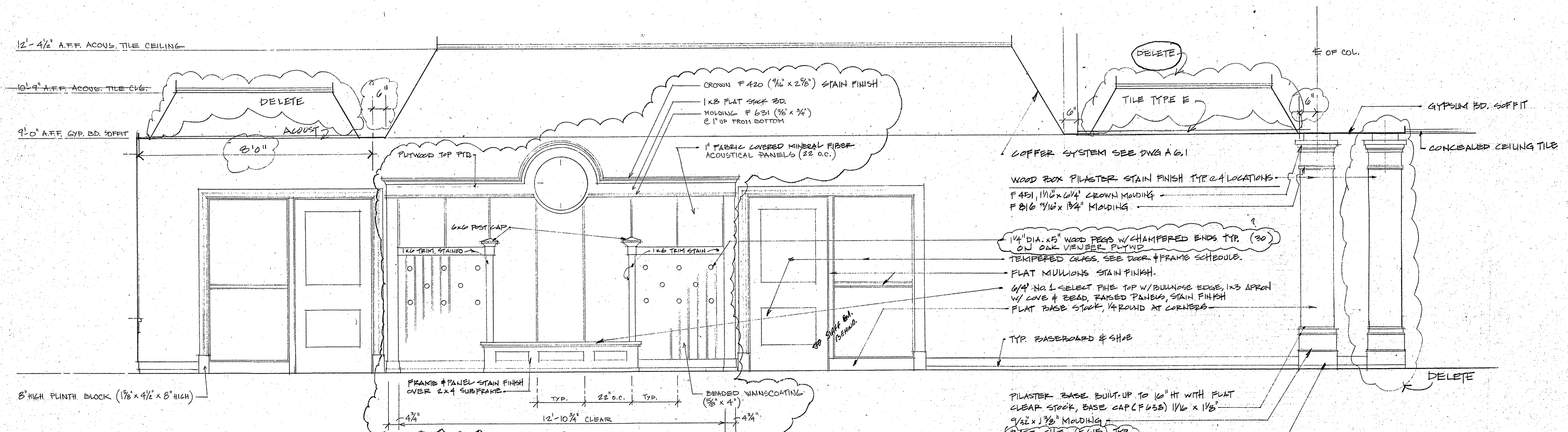
**REVISION**  
10.9.90

**date:** 7/18/90  
**proj. no.** 96-129

**A5.1**



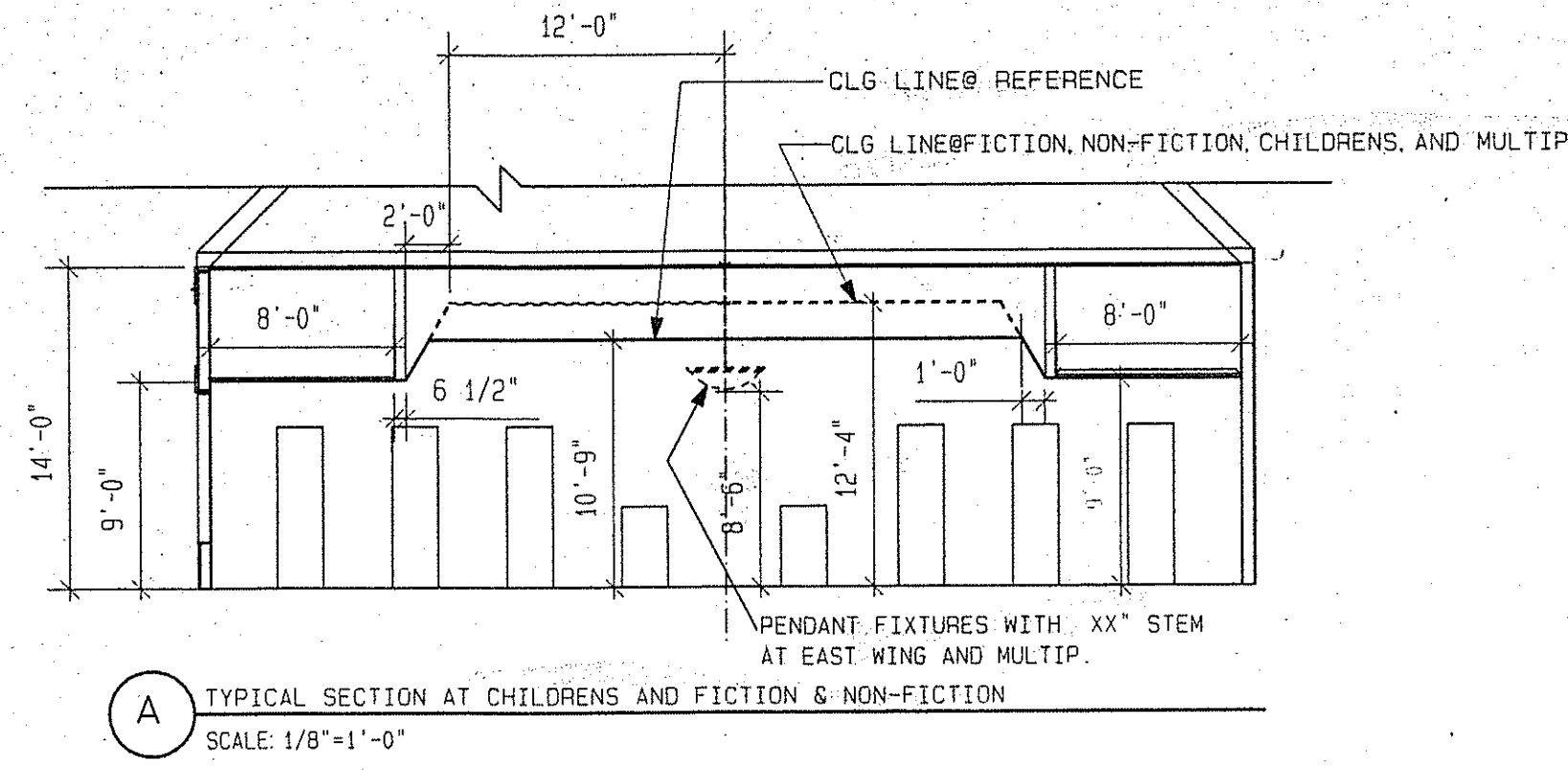
**ELEVATION AT MULTI-PURPOSE**  
SCALE 1/2" = 1'-0"



**ELEVATION AT CHILDREN'S ROOM**  
SCALE 1/2" = 1'-0"

DELETE ENTIRE "CLOCKWORKS" MILLWORK EXCEPT 30 WOOD PEGS MTD ON 3/4" X 24" X 13/16" VIF OAK PLYWD BACKBOARD CLR FINISH.





FOLDING PARTITION ON RECESSED ALUM. TRACK.

MOTORIZED PROJECTION SCREEN:  
9'0"X7'0"X  
MOUNT ABOVE ACOUST. CLG  
PROVIDE 2" WIDE ACCESS SLOT THRU  
ACOUST. TILE AND SUSPENSION SYSTEM

GYPSUM CLG ON METAL  
SUSPENSION SYSTEM @  
7'6" AFF TYPICAL @ CLOSETS

GYPSUM SOFFIT @  
7'6" AFF

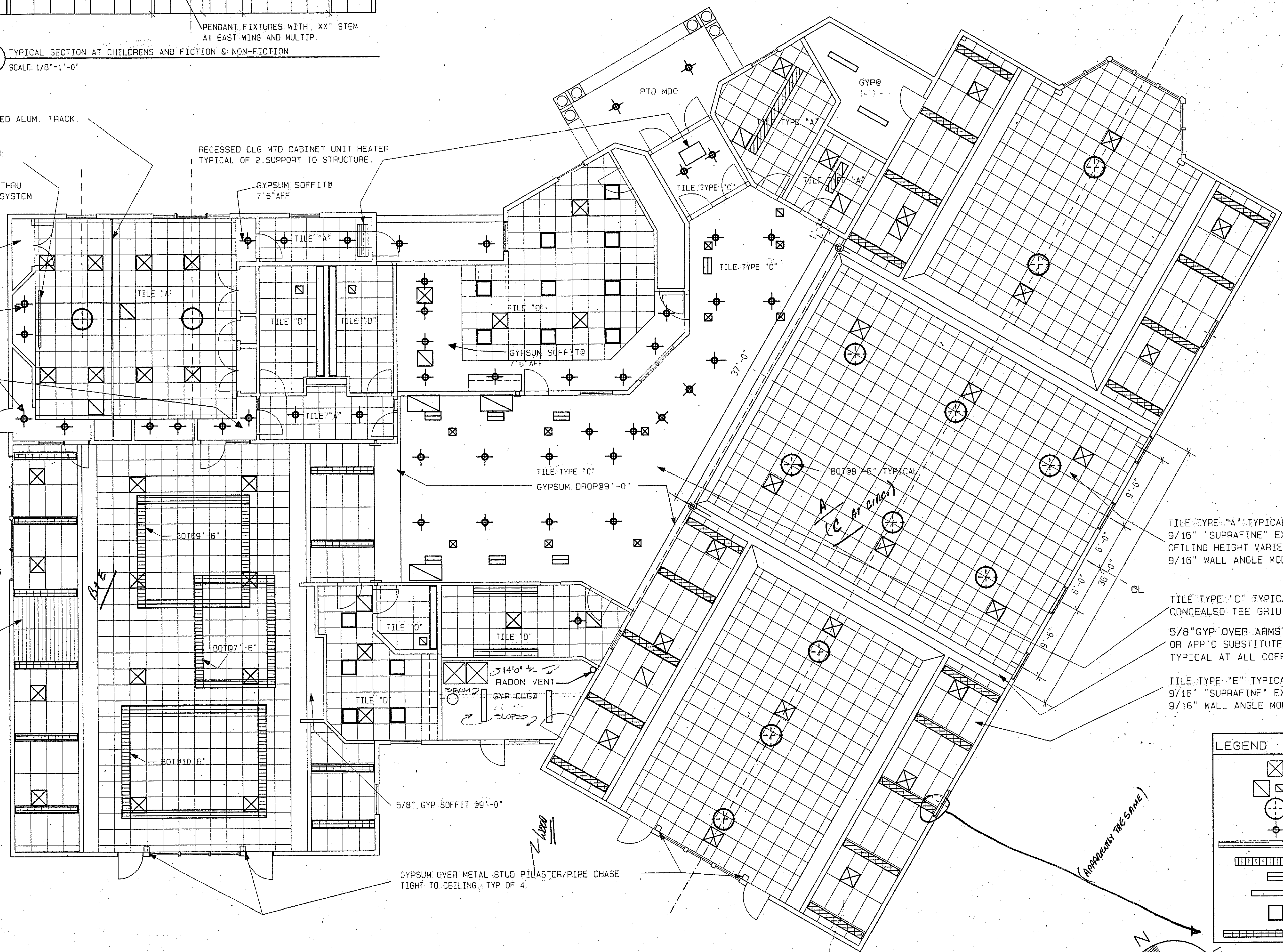
RECESSED CLG MTD CABINET HEATER  
TYPICAL OF 2. SUPPORT TO STRUCTURE.

GYPSUM SOFFIT @  
7'6" AFF

GYPSUM SOFFIT @  
7'6" AFF

9/16" "SUPRAFINE" EXPOD TEE  
CEILING HT VARIES. SEE SECT.  
9/16" WALL ANGLE MOLDING  
TILE TYPE B TYP AT CHILDRENS  
HIGH AREA. TYPE "E" AT LOW AREAS

TILE TYPE E: 2X4 WITH 6"  
SCORING. LAYIN REGULAR



A: 24x24 (4x4) Beveled Edge  
B: " " " " " "  
C: 12x12 (4x4) Beveled Edge  
D: 24x24 Beveled Edge  
E: " " " " " "

TILE TYPE "A" TYPICAL EAST WING  
9/16" "SUPRAFINE" EXPOSED TEE SYSTEM  
CEILING HEIGHT VARIES, SEE SECTION.  
9/16" WALL ANGLE MOLDING

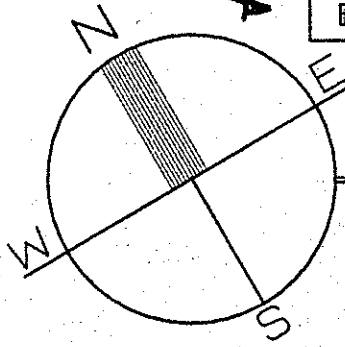
TILE TYPE "C" TYPICAL AT CIRCULATION  
CONCEALED TEE GRID CLG @ 9'-0"  
5/8" GYP OVER ARMSTRONG DRYWALL FURRING SYSTEM  
OR APP'D SUBSTITUTE.  
TYPICAL AT ALL COFFERS

TILE TYPE "E" TYPICAL LOW CLG @ EAST WING  
9/16" "SUPRAFINE" EXPOSED TEE SYSTEM.  
9/16" WALL ANGLE MOLDING

LEGEND	
	SUPPLY DIFFUSER
	EXHAUST/RETURN REGISTER OR GRILLE SEE MECH FOR SIZE
	PENDANT LIGHT FIXTURE <i>MULTI PIP, ADJUST</i>
	RECESSED DOWNLIGHT
	DIRECT/INDIRECT WALL MNTD LIGHT FIXTURE
	DIRECT/INDIRECT PENDANT MNTD LIGHT FIXTURE
	CEILING MNTD WALL WASHER LIGHT FIXTURE
	FLUORESCENT FIXTURE
	2X2 TROFFER WITH PARABOLIC LOUVER
	1X8 TROFFER WITH PARABOLIC LOUVER

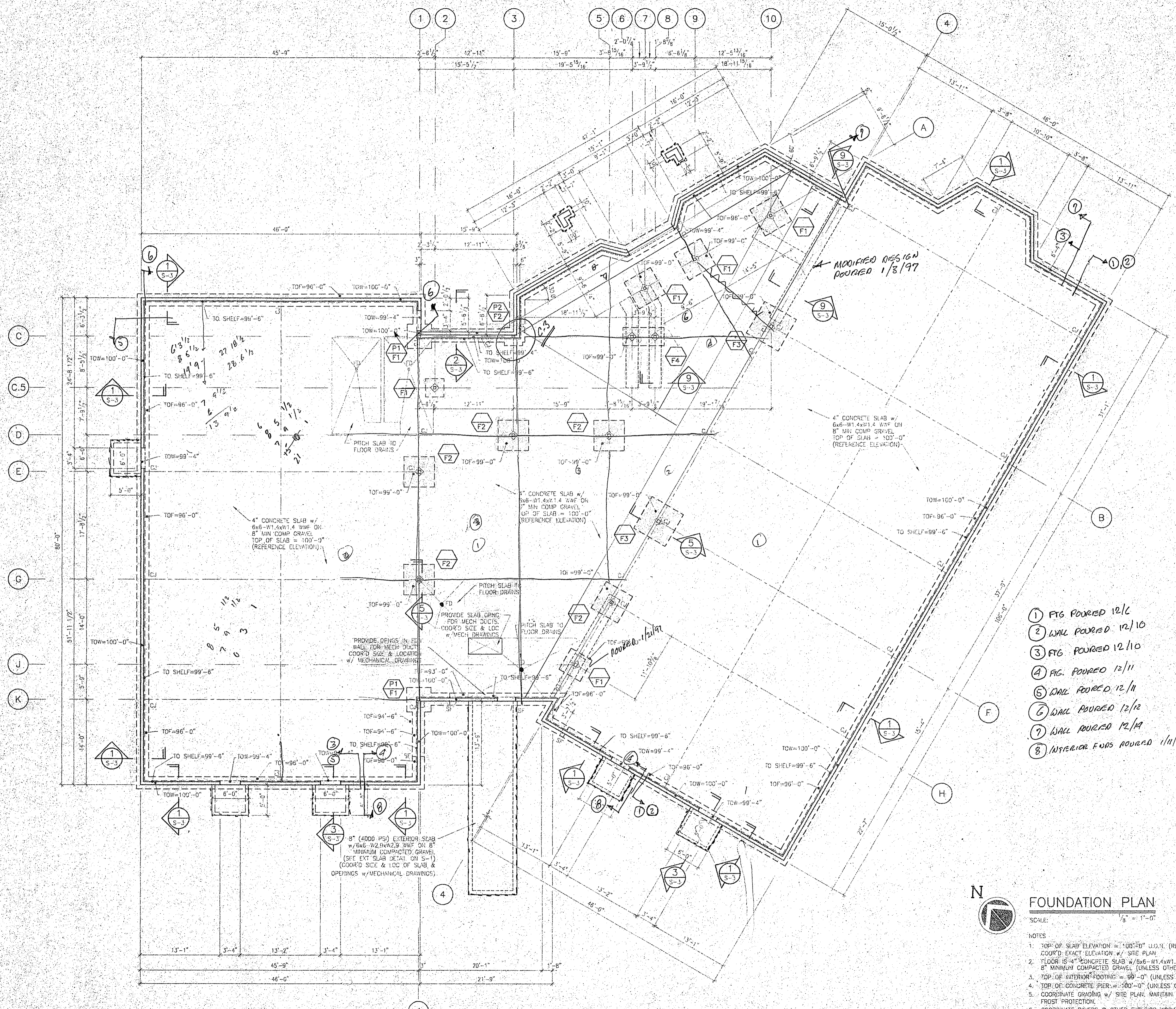
REFLECTED CEILING PLAN

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





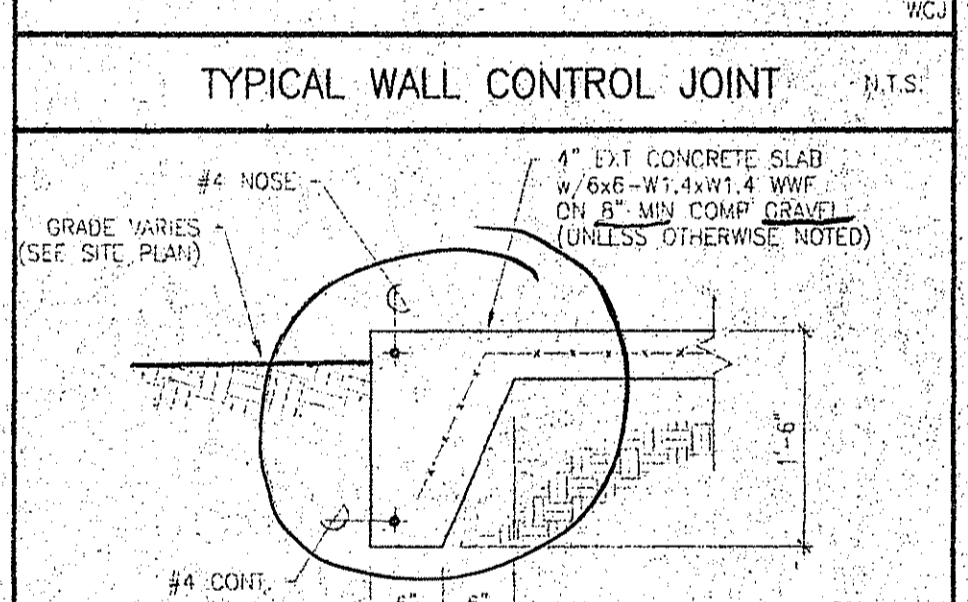
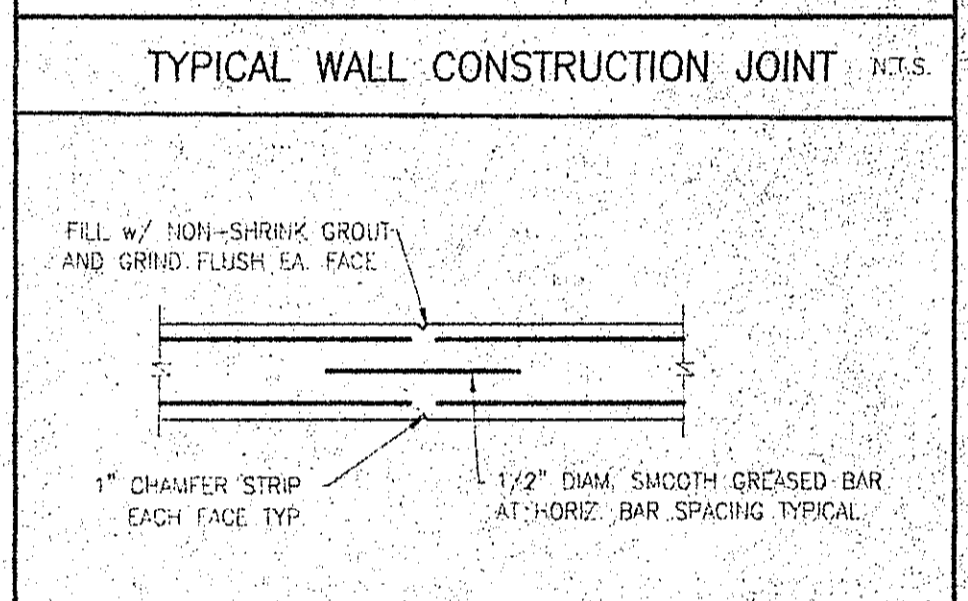
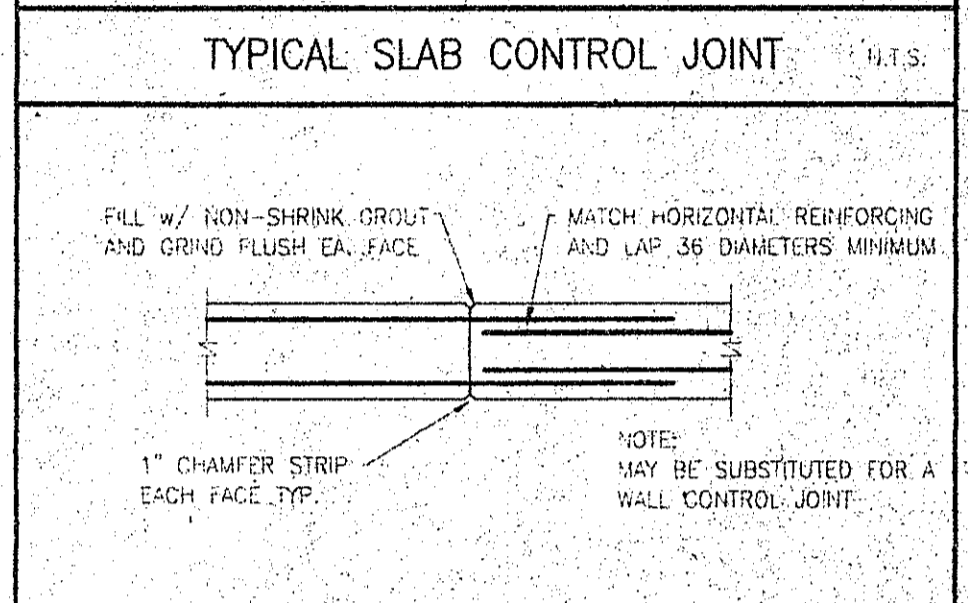
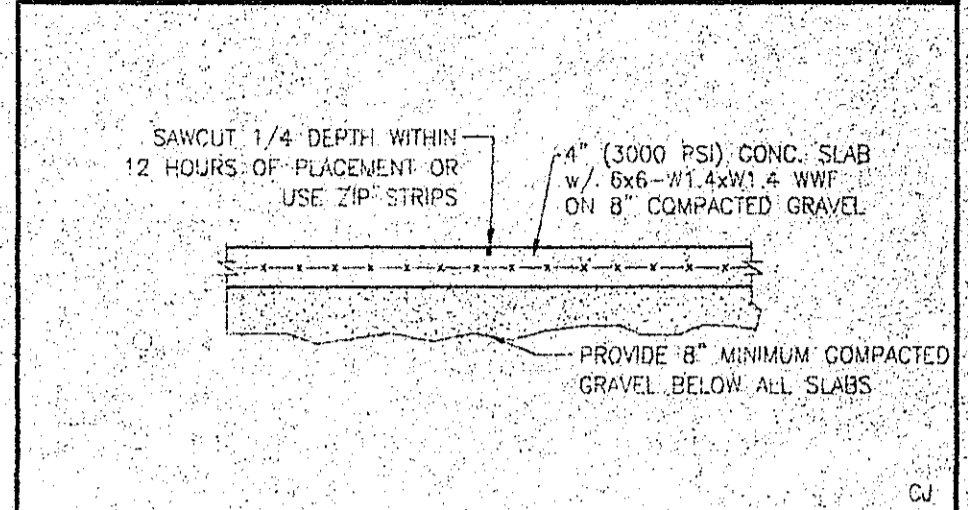
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- ① FTG POURED 12/10
- ② WALL POURED 12/10
- ③ FTG POURED 12/10
- ④ FTG POURED 12/11
- ⑤ WALL POURED 12/11
- ⑥ WALL POURED 12/12
- ⑦ WALL POURED 12/14
- ⑧ INTERIOR FWS POURED 1/11/97 (MINORS)

**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"

- NOTES
- TOP OF SLAB ELEVATION = 100'-0" U.S. (REFERENCE ELEVATION ONLY) COORD. EXACT ELEVATION W/ SITE PLAN.
  - FLOOR IS 4" CONCRETE SLAB W/ 6x6-W1.4xw1.4 WWF ON 8" MINIMUM COMPACTED GRAVEL (UNLESS OTHERWISE NOTED).
  - TOP OF INTERIOR FOOTING = 99'-0" (UNLESS OTHERWISE NOTED).
  - TOP OF CONCRETE PIER = 100'-0" (UNLESS OTHERWISE NOTED).
  - COORDINATE GRADING W/ SITE PLAN. MAINTAIN 4'-0" MINIMUM FROST PROTECTION.
  - COORDINATE PAVES @ OTHER EXTERIOR WORK W/ ARCHITECTURAL DWG'S.
  - COORDINATE SLAB DEPRESSIONS W/ ARCHITECTURAL & MECHANICAL DWG'S.



**PIER SCHEDULE**

MARK	SIZE	REINFORCING	DETAIL
P1	12"x12" CORNER	(4) #5 VERT. w/ #3 TIES @ 10" OC	A/S-4
P2	8"x14"	(4) #5 VERT. w/ #3 TIES @ 10" OC	B/S-4
P3			
P4			
P5			

**FOOTING SCHEDULE**

MARK	SIZE	REINFORCING	DETAIL
F1	4'-0"x4'-0"x1'-0"	(6) #4'S EW BOTTOM	5/S-3
F2	3'-0"x3'-0"x1'-0"	(7) #5'S EW BOTTOM	5/S-3
F3	6'-0"x6'-0"x1'-0"	(8) #6'S EW BOTTOM	5/S-3
F4	3'-0"x6'-0"x1'-0"	(4) #4'S LONG (8) #4'S SHORT	5/S-3
F5			

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WINDHAM NH

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CONSULTING ENGINEERS, STRUCTURAL, FORENSIC  
117 HARRISON STREET, MANCHESTER, NH 03104  
(603) 666-3900 FAX: (603) 669-0800

**DENNIS MIREX, P.A. THE ARCHITECTS**  
697 LINCOLN STREET, LINDEN SQUARE  
MANCHESTER, NEW HAMPSHIRE 03104  
TEL: 603-625-6616 FAX: 603-625-1577

**FOUNDATION PLAN**

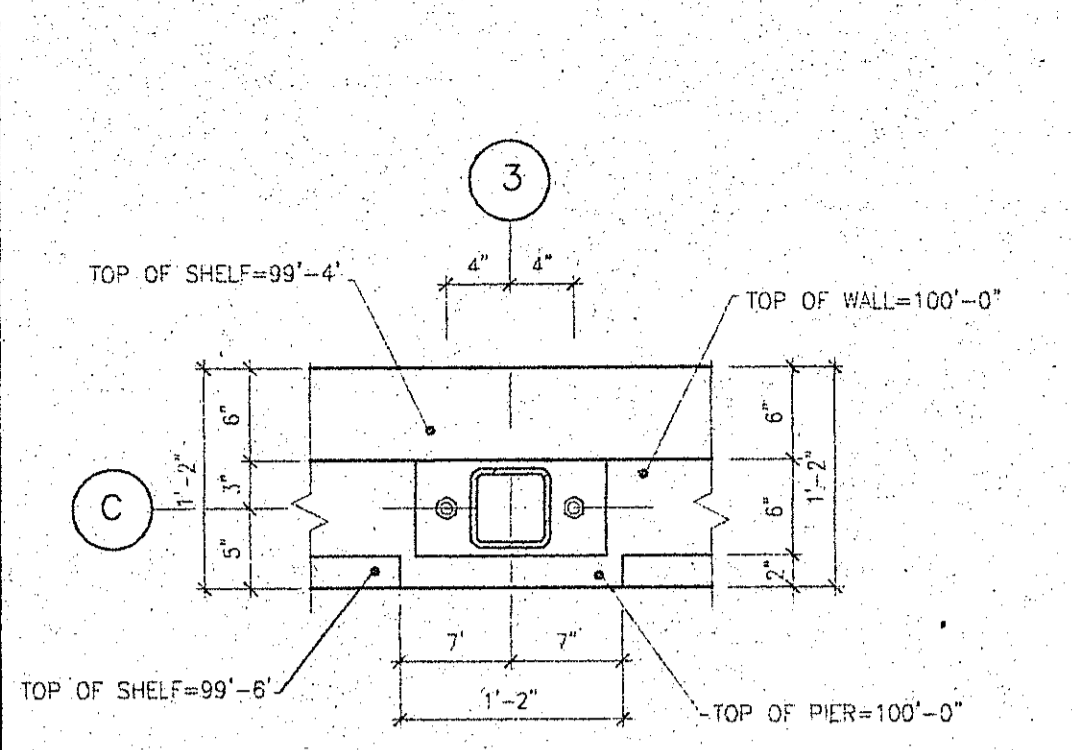
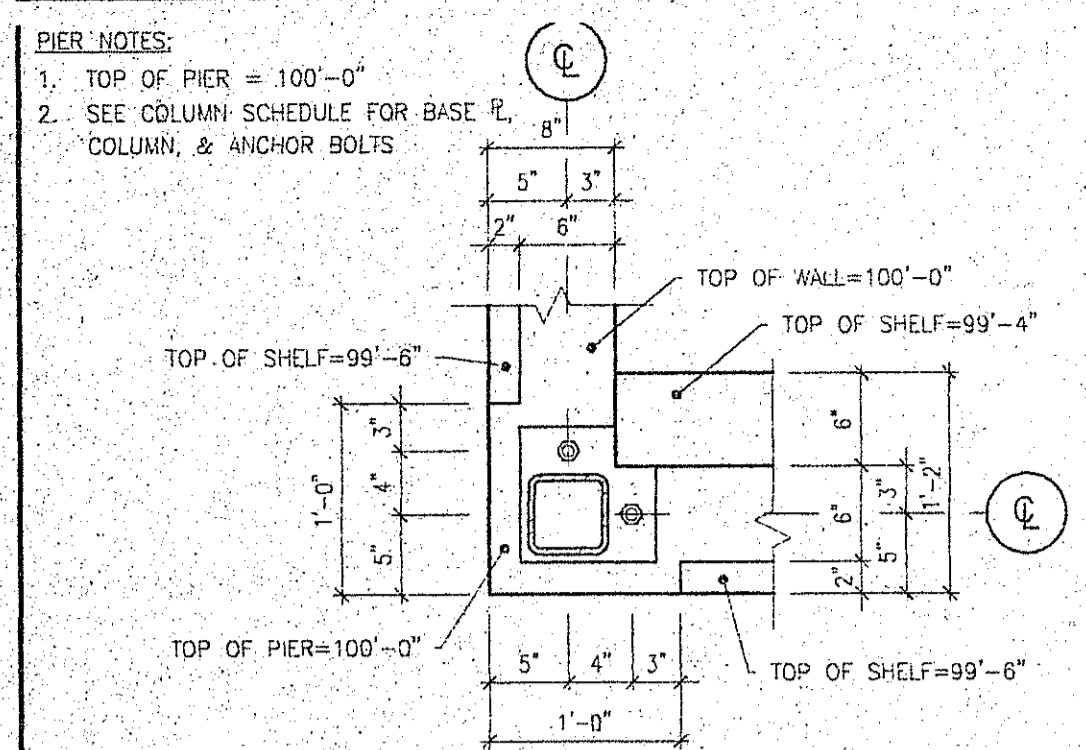
REVISION:  
Δ GENERAL 10/9/96

date: 7/18/96  
proj. no. 96.129

**S-1**

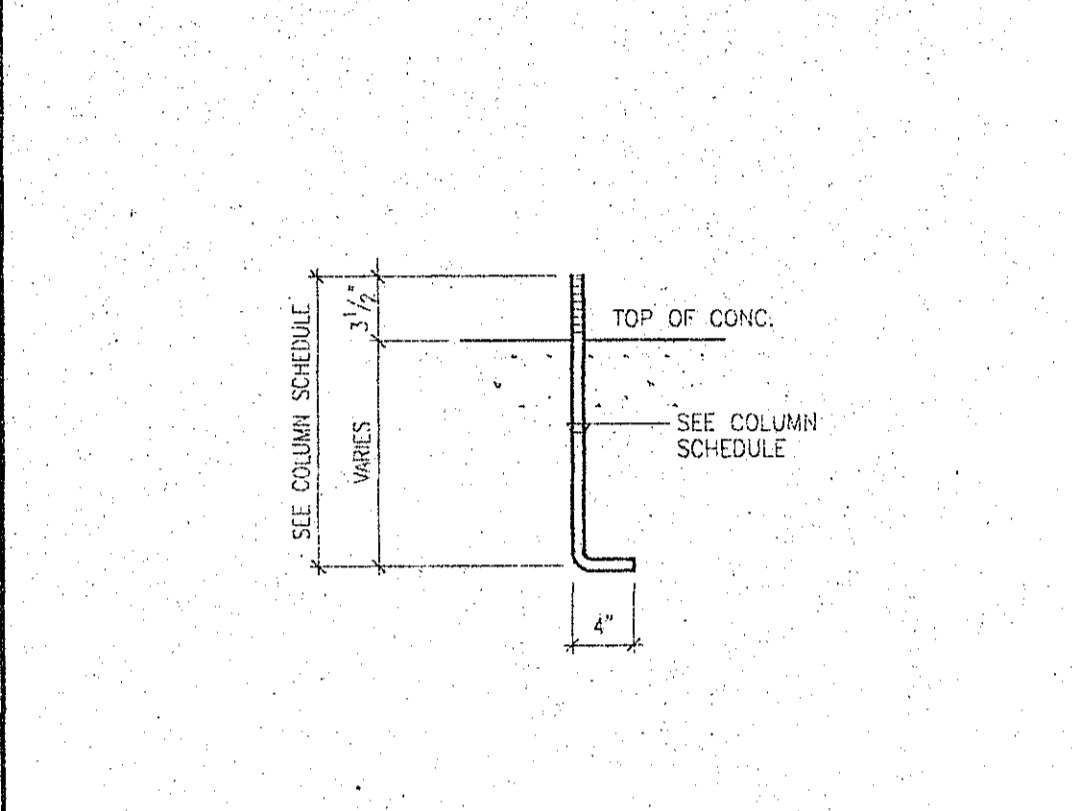
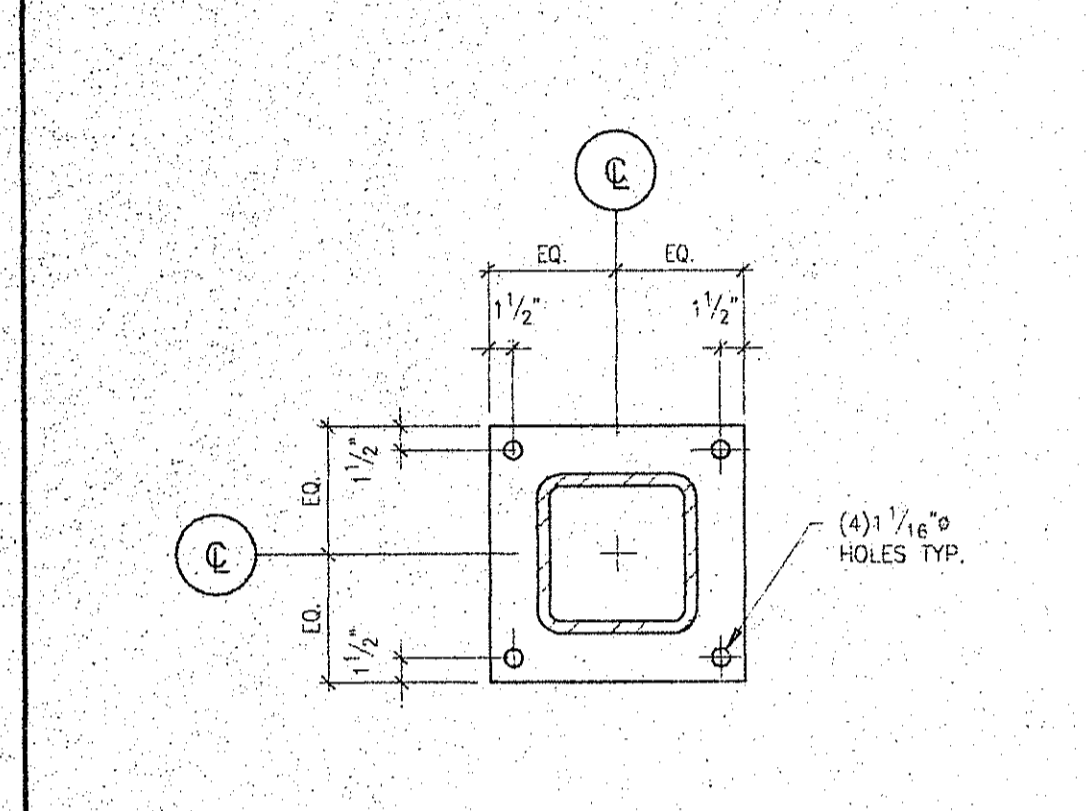






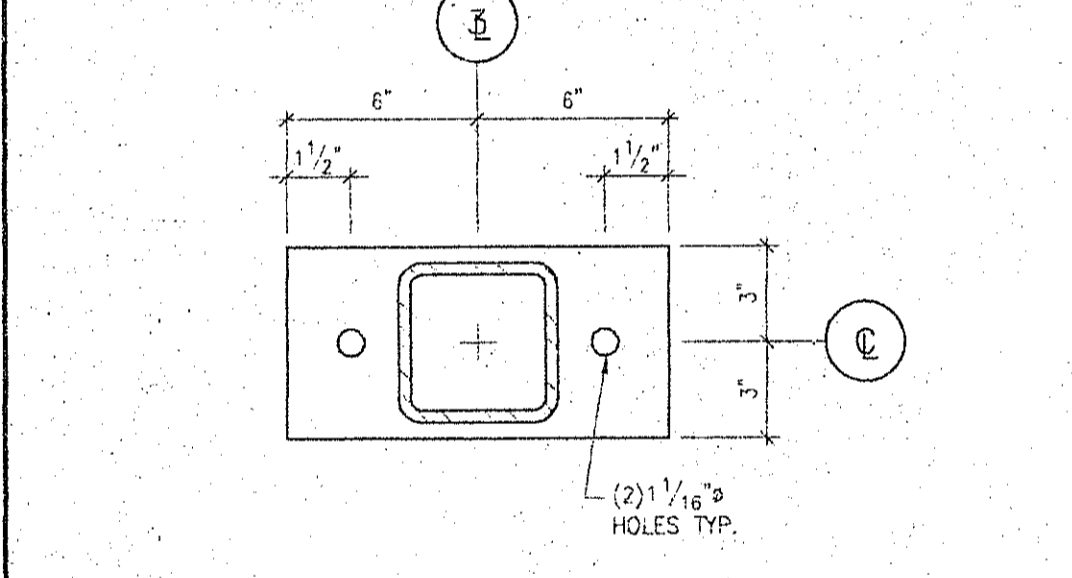
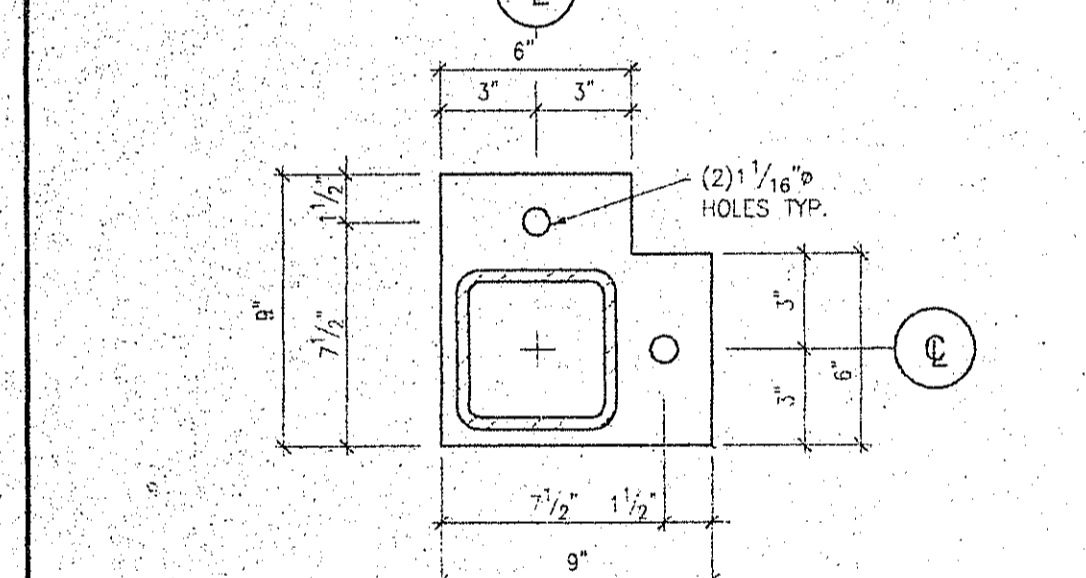
**A**  
S-4  
PIER DETAIL 1" = 1'-0"

**B**  
S-4  
PIER DETAIL 1" = 1'-0"



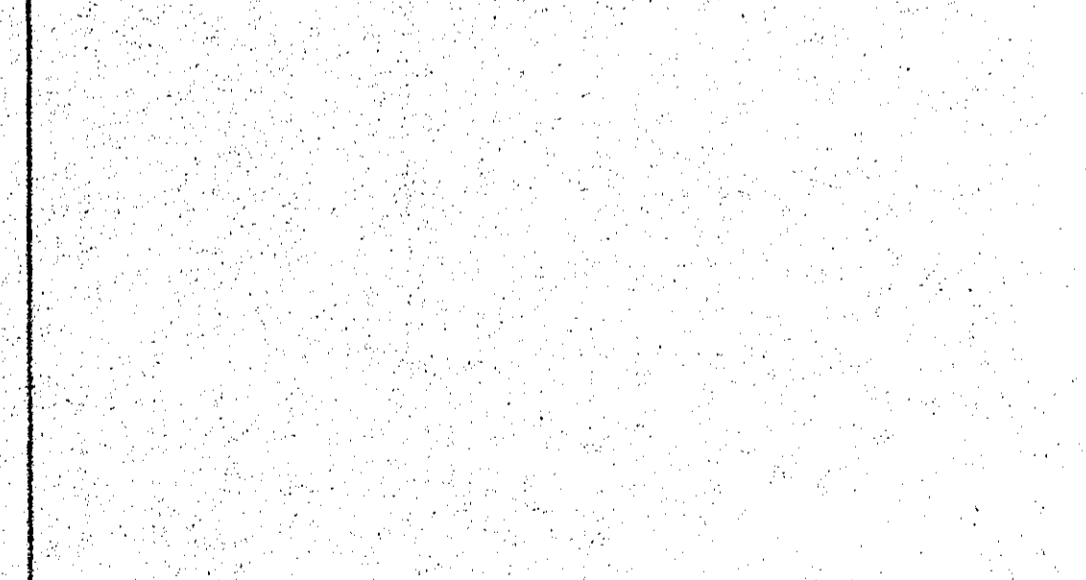
**C**  
S-4  
DETAIL NTS 1" = 1'-0"

**D**  
S-4  
DETAIL NTS 1" = 1'-0"



**E**  
S-4  
DETAIL NTS

**F**  
S-4  
DETAIL NTS



**G**  
S-4  
DETAIL NTS

**H**  
S-4  
DETAIL NTS



**I**  
S-4  
DETAIL NTS 1/2" = 1'-0"

**J**  
S-4  
DETAIL NTS 1/2" = 1'-0"

**COLUMN SCHEDULE**

COLUMNS	A-7	A-9	A-10	B-4	C-1	C-3	C-6	C-8	C-5-2	D-3	D-5	E-1	F-4	G-1	H-4	J-4	K-1
CAP PLATE	STD	STD	STD	STD	STD	STD	STD	STD	7"x1/2" 1'-0"	STD	7"x1/2" 1'-0"	STD	STD	STD	STD	STD	STD
DETAIL																	
TOP OF STEEL=113'-10 1/2"																	
REINFORCING	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 7/8x1/2	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4	TS 5/8x1/4
TOP OF SLAB = 100'-0"																	
REFERENCE ELEVATION	11'	11'	11'	11'	11'	11'	11'	11'	11'	11'	11'	11'	11'	11'	11'	11'	11'
BASE PLATE	12"x3/4" x1'-0"	12"x3/4" x1'-0"	12"x3/4" x1'-0"	16"x1" x1'-4"	9"x3/4" CORNER	6"x3/4" x1'-0"	12"x3/4" x1'-0"	12"x3/4" x1'-0"	12"x3/4" x1'-0"	12"x3/4" x1'-0"	12"x3/4" x1'-0"	12"x3/4" x1'-0"	16"x1" x1'-4"	12"x3/4" x1'-0"	12"x3/4" x1'-0"	12"x3/4" x1'-0"	9"x3/4" CORNER
DETAIL	C/S-4	C/S-4	C/S-4	C/S-4	E/S-4	F/S-4	C/S-4	C/S-4	C/S-4	C/S-4	C/S-4	C/S-4	C/S-4	C/S-4	C/S-4	C/S-4	E/S-4
ANCHOR BOLTS	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(2) 3/4" x1'-4" A-307	(2) 3/4" x1'-4" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(4) 3/4" x1'-0" A-307	(2) 3/4" x1'-4" A-307
DETAIL	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4	D/S-4

**COLUMN SCHEDULE NOTES**  
 1. DIMENSIONS GIVEN ARE TO BOTTOM OF BASE PLATE AND TOP OF CAP PLATE OR SHAFT.  
 2. ALL COLUMNS TO HAVE 1/4" LEVELING PLATE SAME SIZE AS BASE PLATE.  
 3. PROVIDE 3/4" MIN. NON-SHRINK GROUT UNDER ALL LEVELING PLATES.  
 4. ALL COLUMNS CENTERED ON BASE PLATE UNLESS OTHERWISE NOTED.

**GENERAL NOTES**

**CONCRETE:**  
 1. ALL FOOTINGS SHALL BE ON UNDISTURBED MATERIAL HAVING A MINIMUM BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT. ELEVATIONS GIVEN ARE MINIMUM DEPTHS AND ARE NOT TO BE CONSIDERED AS LIMITING IN ANY WAY THE AMOUNT OF EXCAVATION REQUIRED TO REACH GOOD BEARING. NO FOOTINGS SHALL BE PLACED IN WATER, ON FROZEN GROUND, OR PARTIALLY ON BEDROCK. ALL EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN TO A MINIMUM OF FOUR FEET BELOW FINISHED GRADE.  
 2. ALL CONCRETE NOT OTHERWISE NOTED SHALL ATTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CONCRETE FOR EXTERIOR SLABS AND RETAINING WALLS SHALL BE 4,000 PSI WITH SIX PERCENT AIR ENTRAINMENT.  
 3. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI-301 AND ACI-318 LATEST EDITIONS AMENDED TO DATE.  
 4. ALL ORGANICS AND/OR UNSUITABLE MATERIALS SHALL BE REMOVED FROM FOUNDATION AND SLAB SUBGRADE AND BACKFILL AREAS.  
 5. ALL FOOTINGS AND PIERS SHALL BE CENTERED UNDER SUPPORTED MEMBERS, UNLESS OTHERWISE NOTED.  
 6. CALCIUM CHLORIDE IS PROHIBITED IN ANY CONCRETE MIX.  
 7. PROTECT ALL CONCRETE FROM HOT AND COLD WEATHER AS REQUIRED BY ACI-305 AND ACI-306 RESPECTIVELY.  
 8. VERTICAL CONTROL JOINTS IN FOUNDATION WALLS, (WCJ), SHALL OCCUR AS SHOWN ON PLAN OR AT NO MORE THAN 30 FEET ON CENTER. ALL CONTROL AND CONSTRUCTION JOINTS IN WALLS, SLABS OR ANY STRUCTURAL MEMBERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.  
 9. CONTROL JOINTS, (CJ), IN CONCRETE SLABS SHALL BE PLACED AS SHOWN ON PLAN OR AT 20 FEET ON CENTER MAXIMUM. CONTROL JOINTS MAY BE SAW CUT OR ZIP STRIPS. SAW CUT JOINTS MUST BE MADE WITHIN 12 HOURS OF PLACEMENT. AFTER SEVEN DAYS, FILL JOINTS WITH NON-SHRINK GROUT AND GRIND FLUSH IN AREAS TO BE LEFT EXPOSED OR REQUIRED BY FLOOR FINISHES.  
 10. ALL SLEEVES INSERTED INTO CONCRETE WALLS OR SLABS SHALL BE STEEL, CAST IRON, OR PVC PIPE.  
**REINFORCING:**  
 1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS OF RIBBED STEEL WITH A MINIMUM YIELD POINT OF 60,000 PSI AS SPECIFIED BY ASTM A 615-60, UNLESS OTHERWISE NOTED.  
 2. ALL REINFORCING BAR DETAILING SHALL BE AS SPECIFIED IN THE AMERICAN CONCRETE INSTITUTE, "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES", ACI 315, AMENDED TO DATE.  
 3. WHERE CONTINUOUS BARS ARE CALLED FOR, INDICATED OR REQUIRED, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS, DOWELED INTO INTERSECTING WALLS, LAPPED AT NECESSARY SPACES, SPICES STAGGERED AND BARS HOOKED AT DISCONTINUOUS ENDS. LAP ALL BARS 36 DIAMETERS, UNLESS OTHERWISE NOTED.  
**STRUCTURAL STEEL:**  
 1. ALL STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE ASTM "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL" SERIAL DESIGNATION A-36 AMENDED TO DATE. TUBE STEEL SHALL BE A-500, GRADE B.  
 2. ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE "SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (ASC LATEST EDITION) AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".  
 3. ALL CONNECTIONS SHALL BE BY WELDING OR HIGH TENSILE BOLTS ACCORDING TO THE REQUIREMENTS OF THE "MANUAL OF STEEL CONSTRUCTION" LATEST EDITION. UNLESS OTHERWISE NOTED, ALL BOLTED CONNECTIONS ARE BEARING TYPE CONNECTIONS AND KEYS ONLY BE IN A SNUG TIGHT CONDITION AS DESCRIBED BY ASC.  
 4. ALL WELDING SHALL CONFORM TO THE AWS CODE LATEST EDITION. ALL WELDERS SHALL BE AWS CERTIFIED.  
 5. PROVIDE 1/4" HIGH-SHRINK GROUT AND 1/2" LEVELING PLATES UNDER ALL COLUMN BASE PLATES. PROVIDE 4" x 4" CHIP PLATE AND A WEEP HOLE AT THE BASE OF ALL PIPE AND TUBE STEEL COLUMNS UNLESS OTHERWISE NOTED.  
 6. REFER TO ARCHITECTURAL DRAWINGS FOR ALL MISCELLANEOUS METAL AND OTHER INCIDENTAL STEEL REQUIREMENTS.  
 7. PROVIDE FIVE SETS OF SHOP DRAWINGS WITH ERECTION PLAN FOR APPROVAL PRIOR TO FABRICATION.  
**ROUGH CARPENTRY:**  
 1. ALL LAMBER FOR FRAMING SHALL BE #2 OR BETTER SPRUCE-PINE-FIR (SPF), UNLESS OTHERWISE NOTED, WITH A MAXIMUM MOISTURE CONTENT OF 15 PERCENT.  
 2. ALL LAMBER SHALL BE NEW, STRAIGHT AND SOUND AS DESCRIBED BY THE HELMA "STANDARD GRADING RULES FOR NORTHEASTERN LUMBER".  
 3. IN ALL CASES, FLOOR JOISTS, RAFTERS, AND/OR TRUSSES SHALL BE ALIGNED DIRECTLY OVER VERTICAL FRAMING MEMBERS.  
 4. PROVIDE METAL JOIST HANGERS AT ALL FLUSH FRAMING. HANGERS TO BE SIZED FOR MEMBER BEING ATTACHED AND TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.  
 5. ROUGH CARPENTRY SHALL PRODUCE JOINTS TRUE AND TIGHT. ALL JOINTS SHALL BE WELL NAILED TO MEET THE REQUIREMENTS OF THE "RECOMMENDED FASTENING SCHEDULE" IN THE 1993 BOCA. PROVIDE FULL BEARING UNDER ALL BEAMS.  
**PARALLAMS (PSL) & TIMBERSTRAND (LSL) & LAMINATED VENEER LUMBER (LVL):**  
 1. ALL PARALLAM BEAMS AND COLUMNS AND LVL BEAMS SHALL BE SIZED AS SHOWN ON PLAN AND MANUFACTURED BY MACMILLAN BLOEDEL. FB = 2,900 PSI, FV = 290 PSI, E = 2,000,000 PSI.  
 2. ALL TIMBERSTRAND LUMBER SHALL BE SIZED AS SHOWN ON PLAN AND MANUFACTURED BY MACMILLAN BLOEDEL.  
 3. DO NOT NOTCH OR BORE ANY PARALLAM UNLESS INDICATED ON PLAN OR OBTAIN PRIOR APPROVAL FROM THE ENGINEER/ARCHITECT.  
**WOOD TRUSSES:**  
 1. ALL WOOD TRUSSES SHALL BE DESIGNED, MANUFACTURED, AND ERECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE.  
 2. ALL WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT THE LOADS INDICATED ON THE PLANS. IN ADDITION, TRUSSES SHALL BE DESIGNED FOR ADDITIONAL LOAD DUE TO WIND, SNOW DRIFTING AND/OR SLIDING SNOW AS DESCRIBED IN THE 1993 BOCA.  
 3. TRUSS MANUFACTURER TO SUPPLY FIVE SETS OF SHOP DRAWINGS AND ERECTION PLANS CERTIFIED BY A NH REGISTERED PROFESSIONAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.  
 4. #3 GRADE LUMBER IS NOT ACCEPTABLE FOR ANY PART OF ANY TRUSS.  
 5. DO NOT CUT, REMOVE, OR ALTER ANY MEMBER OR CONNECTOR OF TRUSS. SUPPORT TRUSSES ONLY AT DESIGNATED BEARING LOCATIONS.  
 6. BRACE TRUSS MEMBERS AS REQUIRED ON SHOP DRAWINGS. BRACE TRUSS SYSTEM AS RECOMMENDED BY THE TPI'S BMT-76 (GREEN SHEET).  
 7. TRUSS HANGERS TO BE SUPPLIED BY TRUSS MANUFACTURER AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.  
 8. COORDINATE ALL TRUSS PROFILES, PITCHES AND EAVE CONDITIONS WITH ARCHITECTURAL DRAWINGS.  
**DESIGN LOADS:**  
 THIS STRUCTURAL SYSTEM HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LIVE LOADS IN ADDITION TO THE STRUCTURAL DEAD AND EQUIPMENT LOADS:  
 SNOW: GROUND SNOW LOAD: 60 PSF ROOF SNOW LOAD: 50 PSF EXPOSURE FACTOR: 1.0  
 CE = 0.7 IMPORTANCE FACTOR: 1.0  
 WIND SPEED: 80 MPH IMPORTANCE FACTOR: 1.05 EXP. B PRESSURE: PV = 16.4 PSF  
 EARTHQUAKE: AV = 0.10 AA = 0.10 SEISMIC HAZARD GROUP: I SEISMIC PERFORMANCE CATEGORY: C SOIL PROFILE TYPE: S1 SEISMIC RESISTING SYSTEM: LOADBEARING  
 WALL SYSTEM RESPONSE MODIFICATION FACTOR: R = 6.5 DEFLECTION APPLICATION FACTOR: CD = 6 ANALYSIS: EQUIVALENT LATERAL FORCE PROCEDURE  
 ATTIC LOADS: 125 PSF  
 CONSTRUCTION LOADS SHALL NOT EXCEED 110% OF THE LIVE LOADS LISTED.  
**MISCELLANEOUS:**  
 1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD.  
 2. COORDINATE ALL STRUCTURAL WORK WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SPECIFICATIONS AND LOCATIONS OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FLASHING, INSULATION, DAMPROOFING, AND OTHER PROJECT REQUIREMENTS.

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**DUBOIS ENGINEERING ASSOCIATES, INC.**  
 CONSULTING ENGINEERS, STRUCTURAL, FORENSIC  
 117 HARRISON STREET, MANCHESTER, NH 03104  
 (603) 660-0900 FAX (603) 669-0900

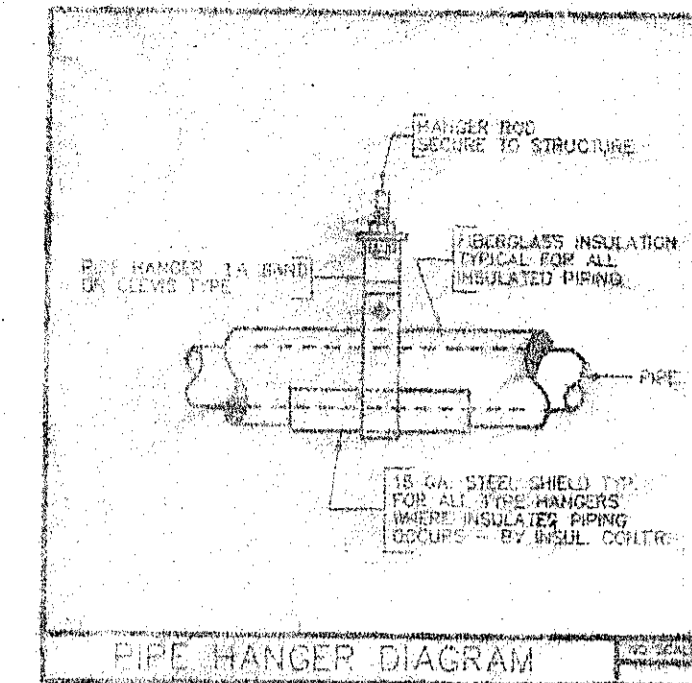
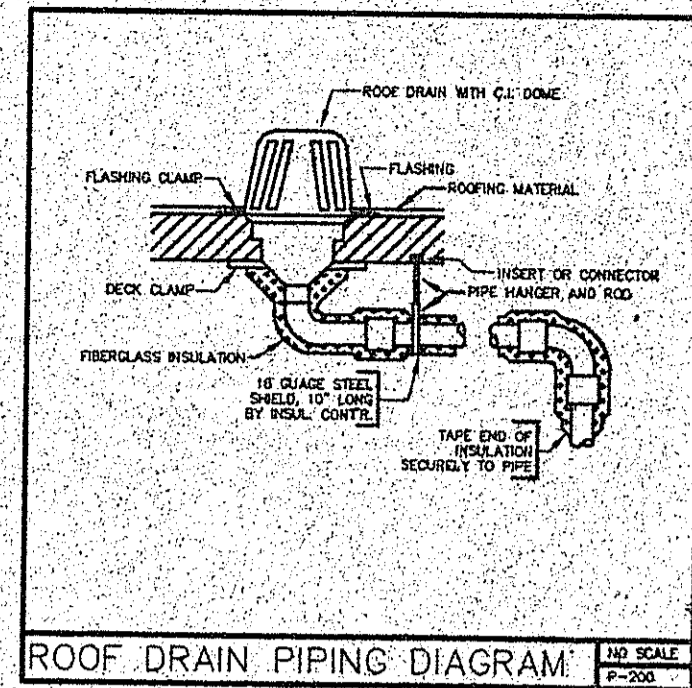
**DENNIS MIRBS, P.A. THE ARCHITECTS**  
 657 LAMON STREET @ LAMON SQUARE  
 MANCHESTER, NEW HAMPSHIRE 03104  
 TEL: 603-625-4248 FAX: 603-625-1067

**DETAILS, COLUMN SCHED, GENERAL NOTES**

**REVISION:**  
 GENERAL 10/9/96

date: 7/18/96  
 proj. no. 96.129

**S-4**



**PLUMBING LEGEND**

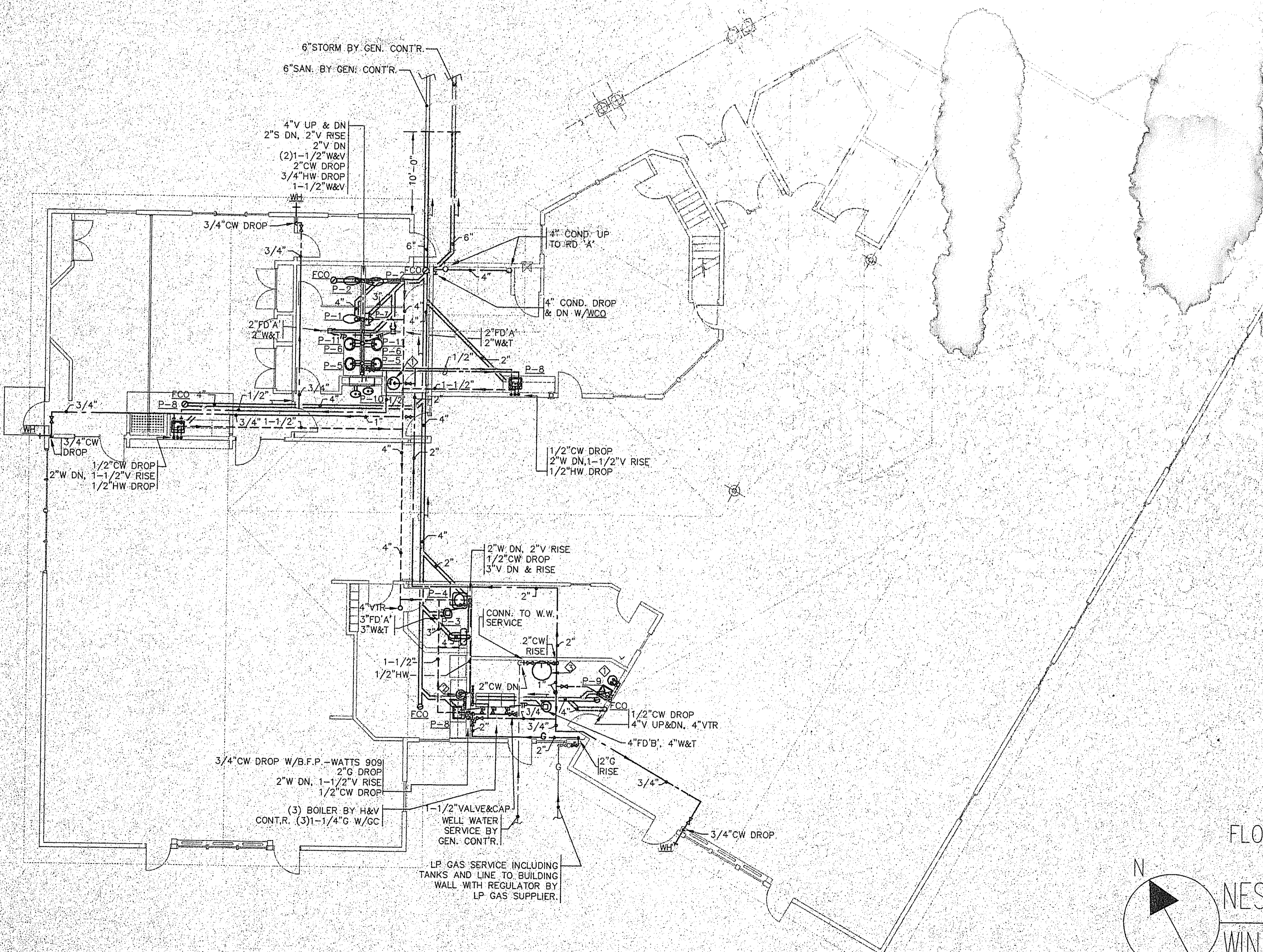
- CW COLD WATER
- HW HOT WATER
- G GAS
- S. OR W SOIL OR WASTE
- V VENT
- COND. CONDUCTOR
- S. OR W. SOIL OR WASTE - BURIED
- V. VENT - BURIED
- COND. CONDUCTOR - BURIED
- G.V. GATE VALVE
- G.C. GAS COCK
- C.V. CHECK VALVE
- W. & T. WASTE AND TRAP
- F.C.O. FLOOR CLEANOUT
- D.C.O. DANDY CLEANOUT
- W.H. WALL HYDRANT
- DIR. OF FLOW DIRECTION OF FLOW
- DIR. OF PITCH DOWN DIRECTION OF PITCH DOWN
- F.D. FLOOR DRAIN
- INV. INVERT
- V.T.R. VENT THRU ROOF
- B.F.P. BACKFLOW PREVENTER
- T.P. TRAP PRIMER

NO.	FIXTURE	CONNS BY PLUMB'G CONTR.			
		SOIL OR WASTE	VENT	HOT WATER	COLD WATER
	WATER CLOSET	4"	2"	---	1-1/4"
	WATER CLOSET, HC	4"	2"	---	1-1/4"
	WATER CLOSET	4"	2"	---	1/2"
	LAVATORY, HC	1-1/2"	1-1/2"	1/2"	1/2"
	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
	LAVATORY, HC	1-1/2"	1-1/2"	1/2"	1/2"
	URINAL	2"	2"	---	1"
P-8	SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-9	MOP BASIN	3"	2"	1/2"	1/2"
P-10	DRINKING FOUNTAIN	1-1/2"	1-1/2"	---	1/2"
P-11	HOSE BIBB	---	---	---	1/2"

FLOOR DRAIN SCHEDULE	
TYPE	DESCRIPTION
'A'	SMITH 2010-PO50-B C.I. DRAIN WITH 5"X5" N.B. GRATE AND TRAP-PRIMER CONN.
'B'	SMITH 2110-PO50 C.I. DRAIN AND GRATE WITH TRAP-PRIMER CONN.

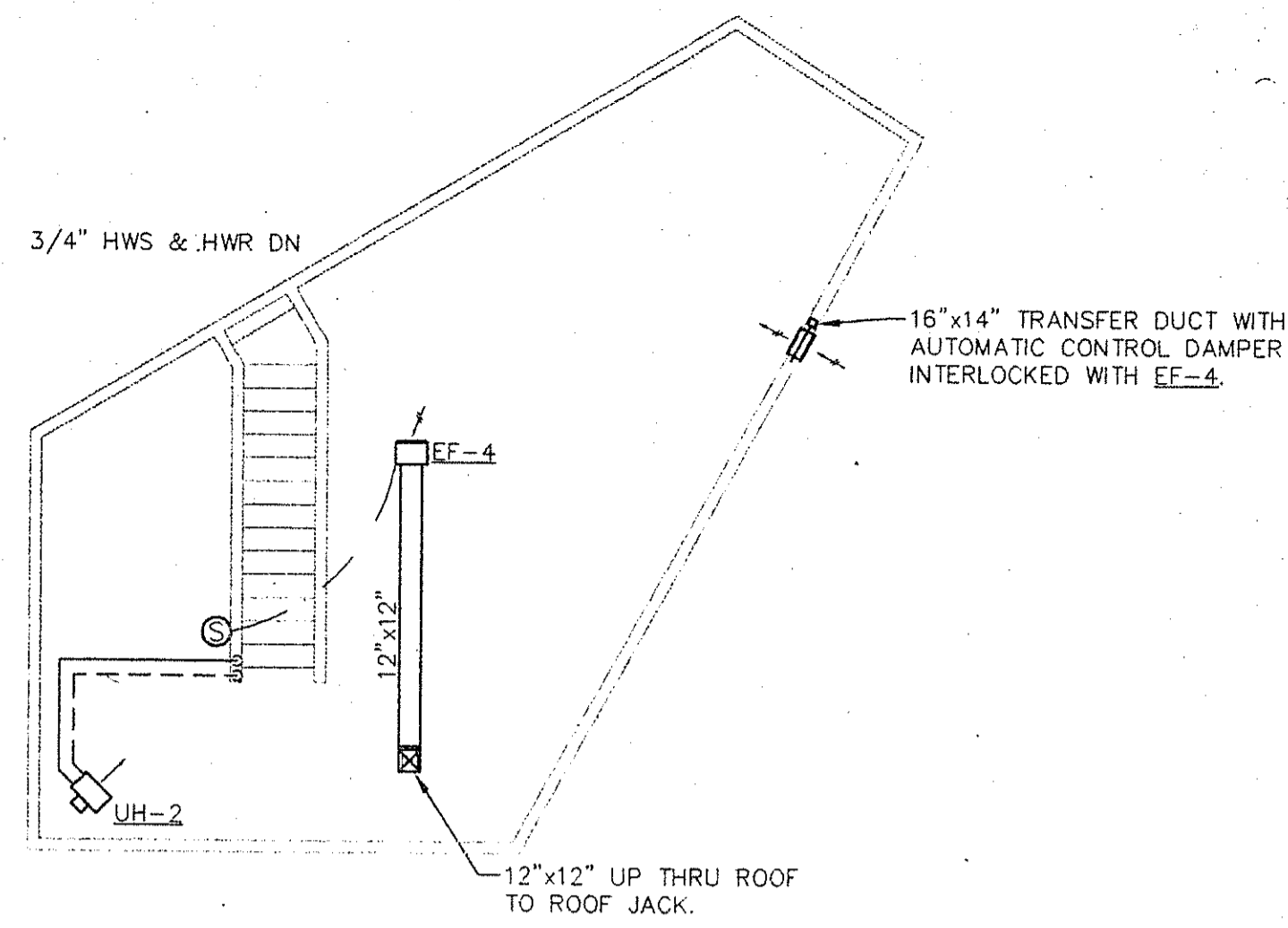
ROOF DRAIN SCHEDULE	
TYPE	DESCRIPTION
'A'	SMITH 1630T C.I. DRAIN WITH DOME STRAINER

- WORK NOTES**
- 1 - WATER HEATER 'A'. CONNECT 3/4" CW W/VAC. REL., 3/4" HW AND 3/4" T&P REL.
  - 2 - WATER HEATER 'B'. CONNECT 1/2" CW W/VAC. REL., 1/2" HW AND 3/4" T&P REL.
  - 3 - HYDROCUMULATOR TANK, THERM-X-TROL ST-451-C. PROVIDE PRESS. SWITCH AND RELIEF VALVE.

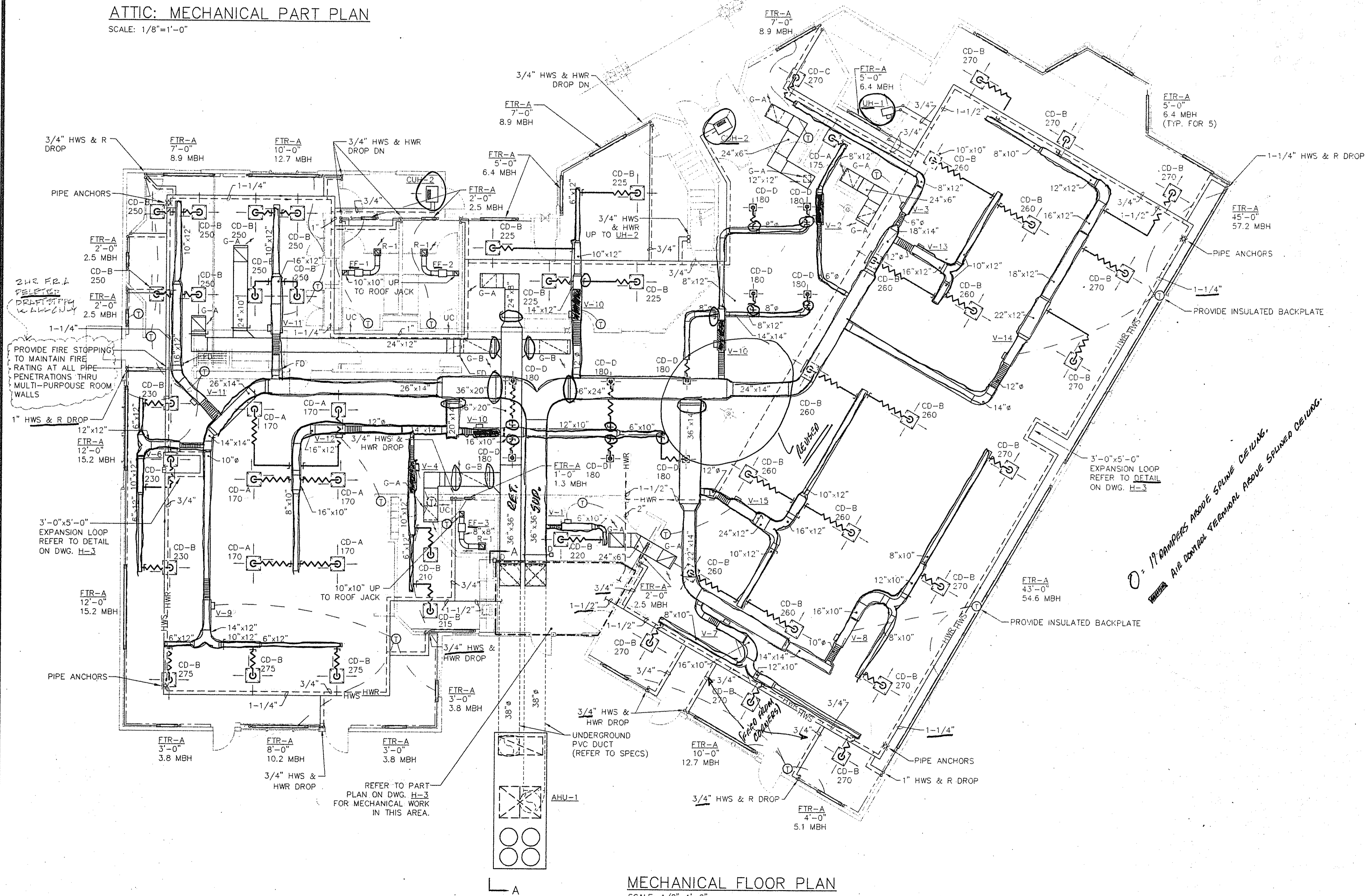


FLOOR PLAN  
**NESMITH LIBRARY**  
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 SCALE: 1/8"=1'-0"

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 DENNIS THE ARCHITECTS  
 P.A.S.  
 New Hampshire  
 Manchester  
 PLUMBING PLAN  
 date: 7/18/96  
 proj. no.  
**P-1**



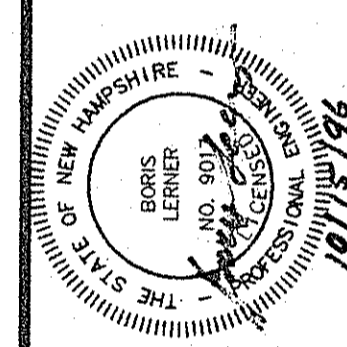
ATTIC MECHANICAL PART PLAN  
SCALE: 1/8"=1'-0"



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

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DENNIS MIREN ARCHITECTS  
New Hampshire  
Manchester

GENERAL REVISIONS 10/29/98

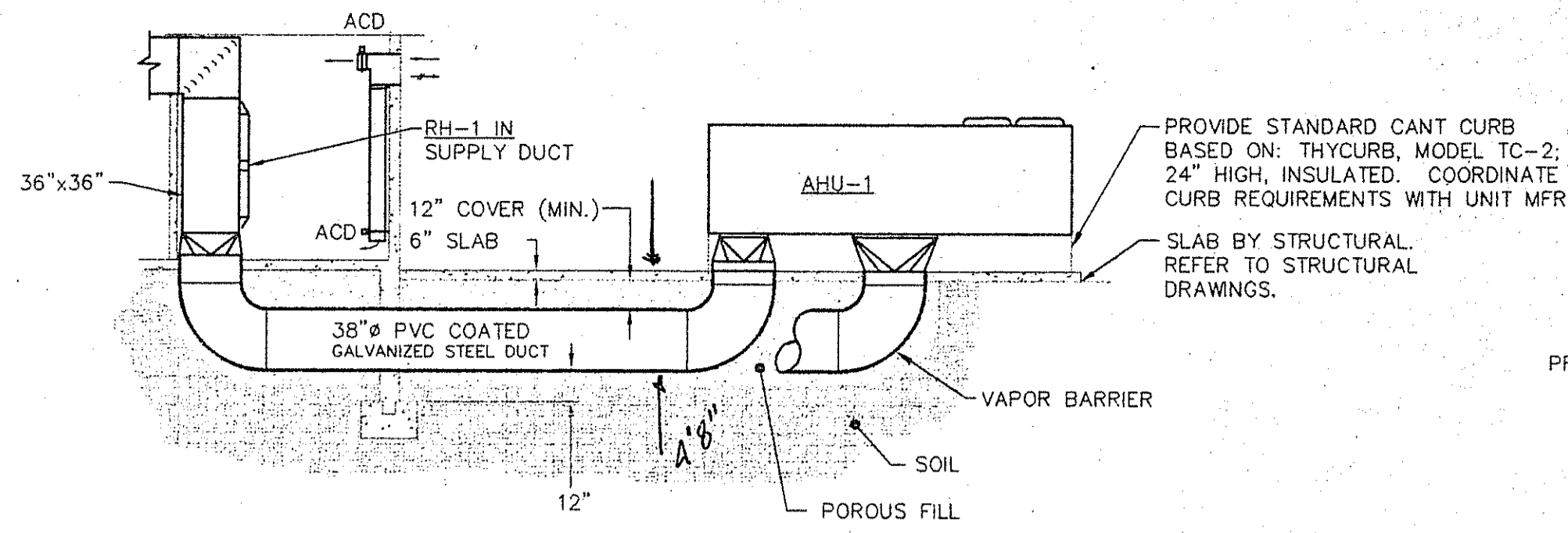
MECHANICAL FLOOR PLAN

date: 7/18/98  
proj. no.

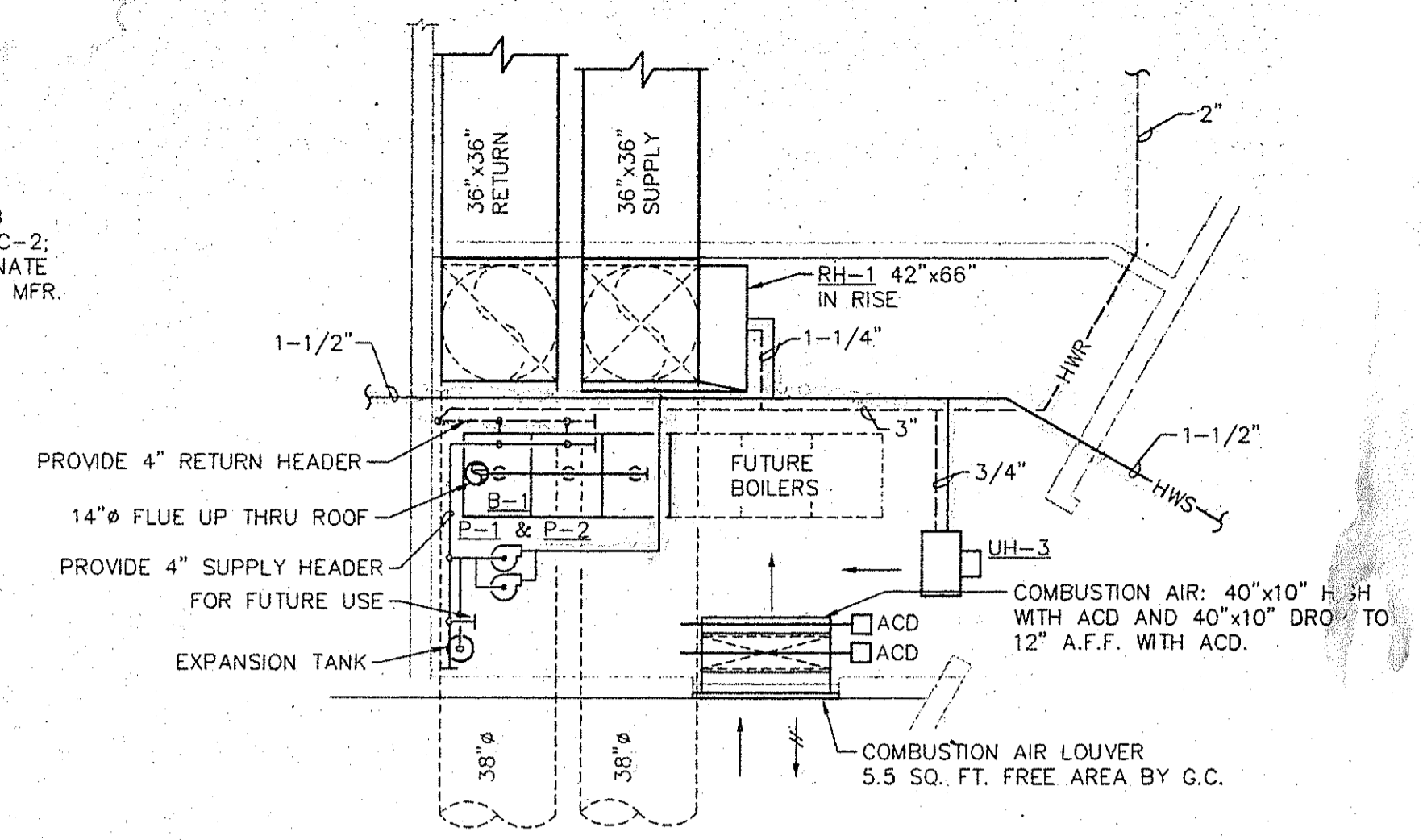
H-1



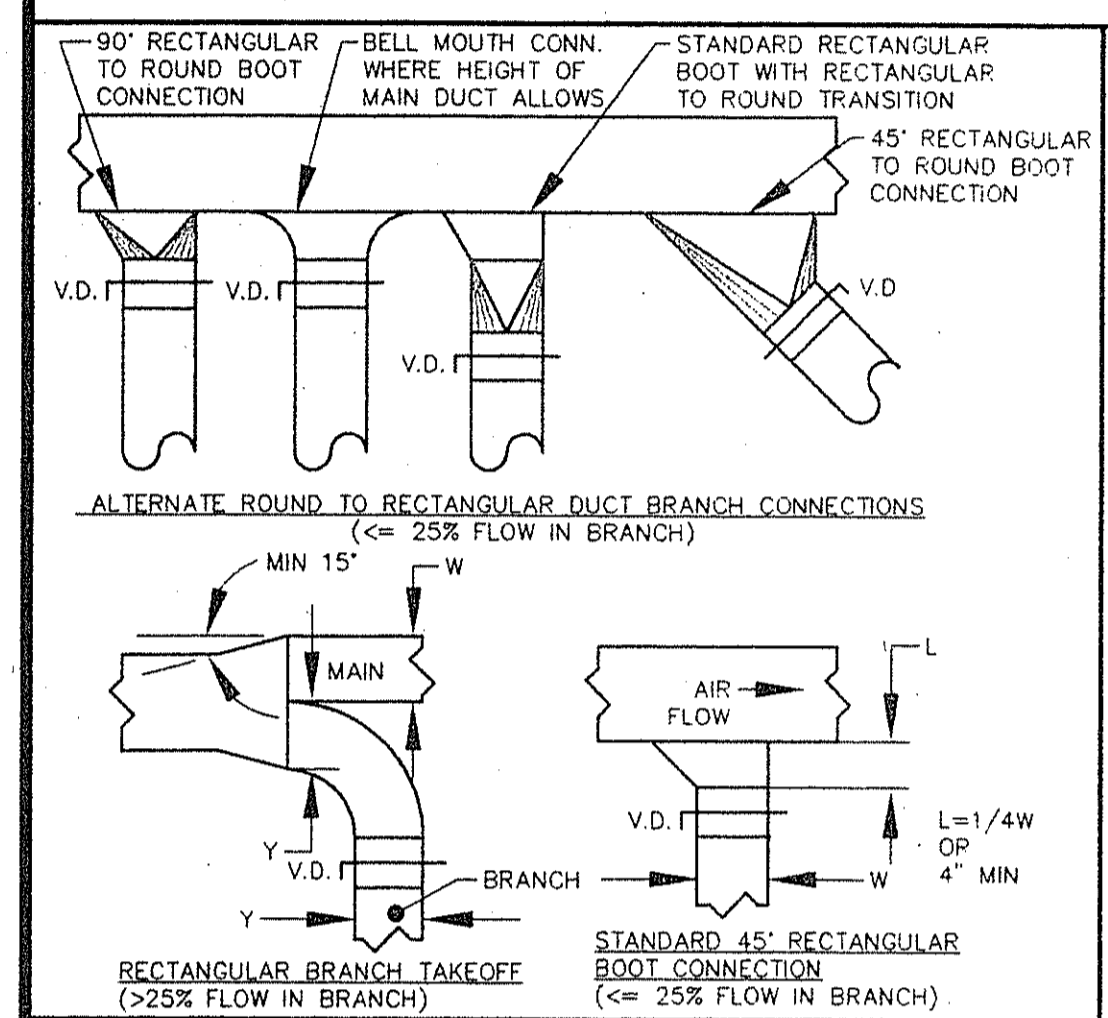




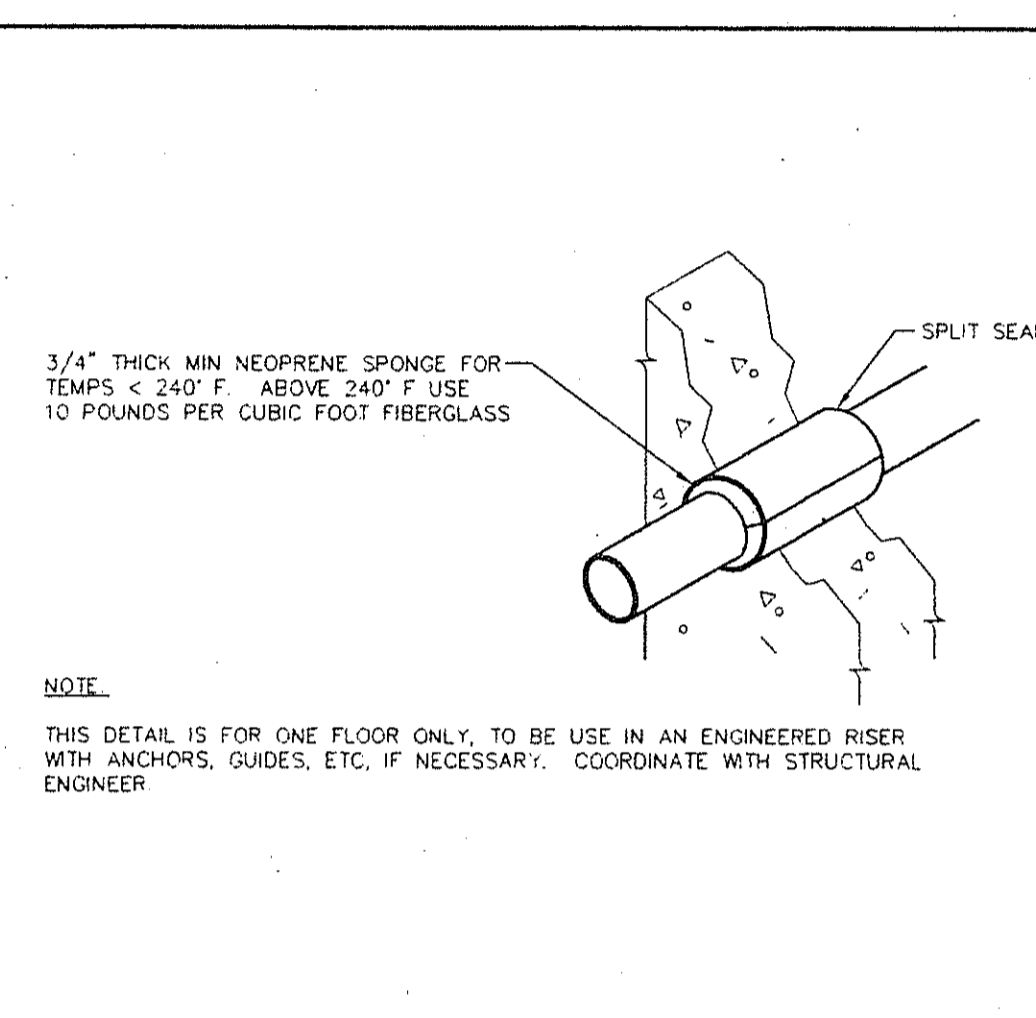
SECTION "A-A"  
SCALE: 1/8"=1'-0"



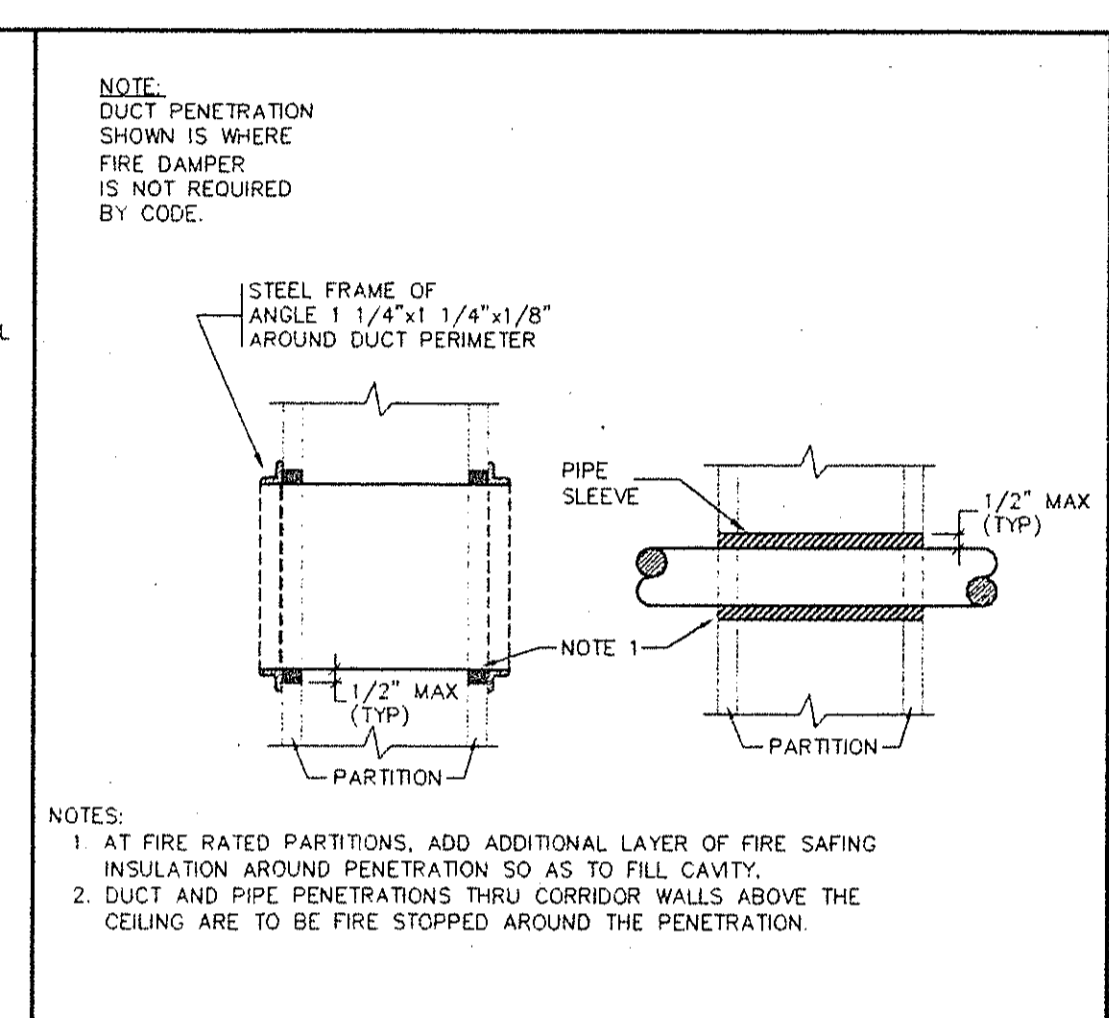
BOILER ROOM PART PLAN  
SCALE: 1/4"=1'-0"



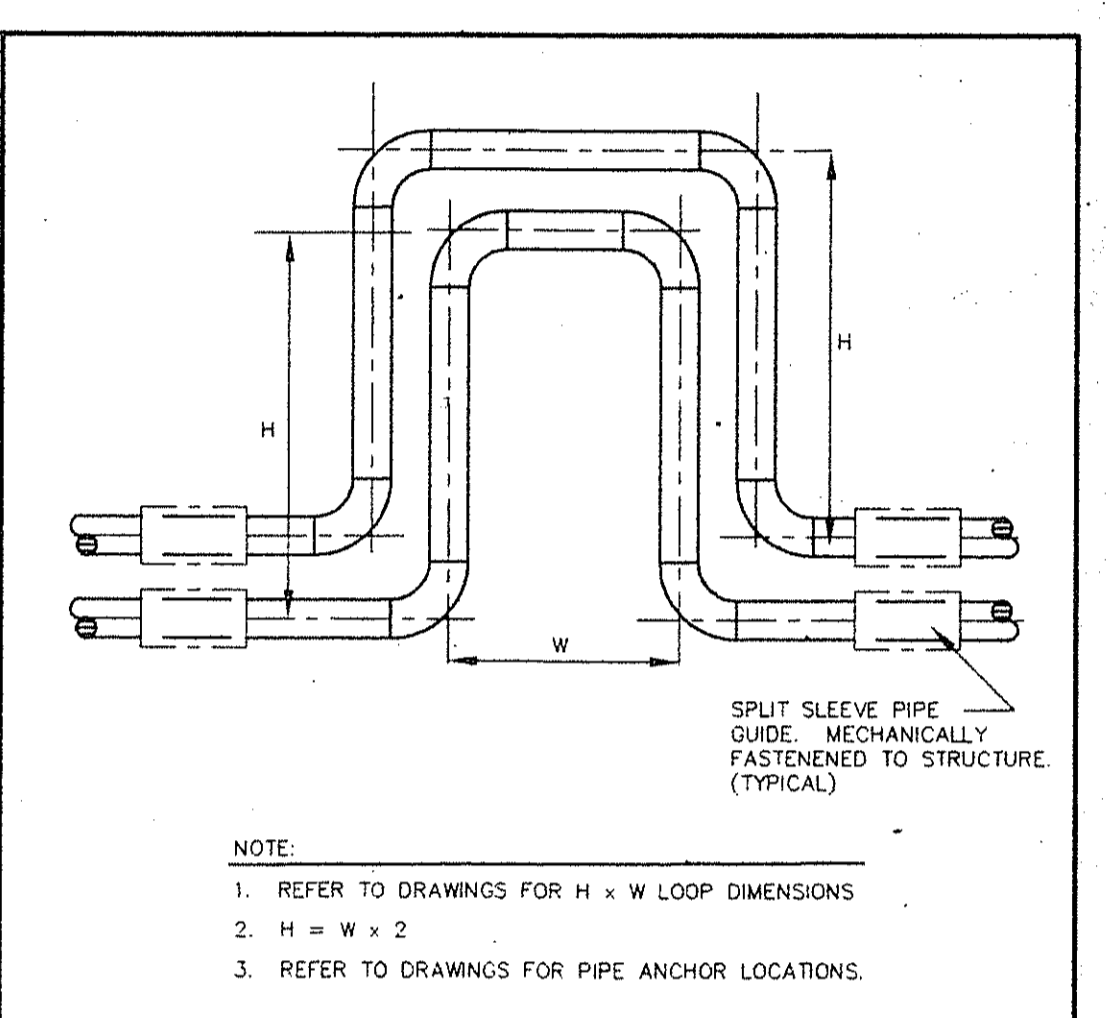
LOW VELOCITY BRANCH TAKEOFFS  
NO SCALE  
124



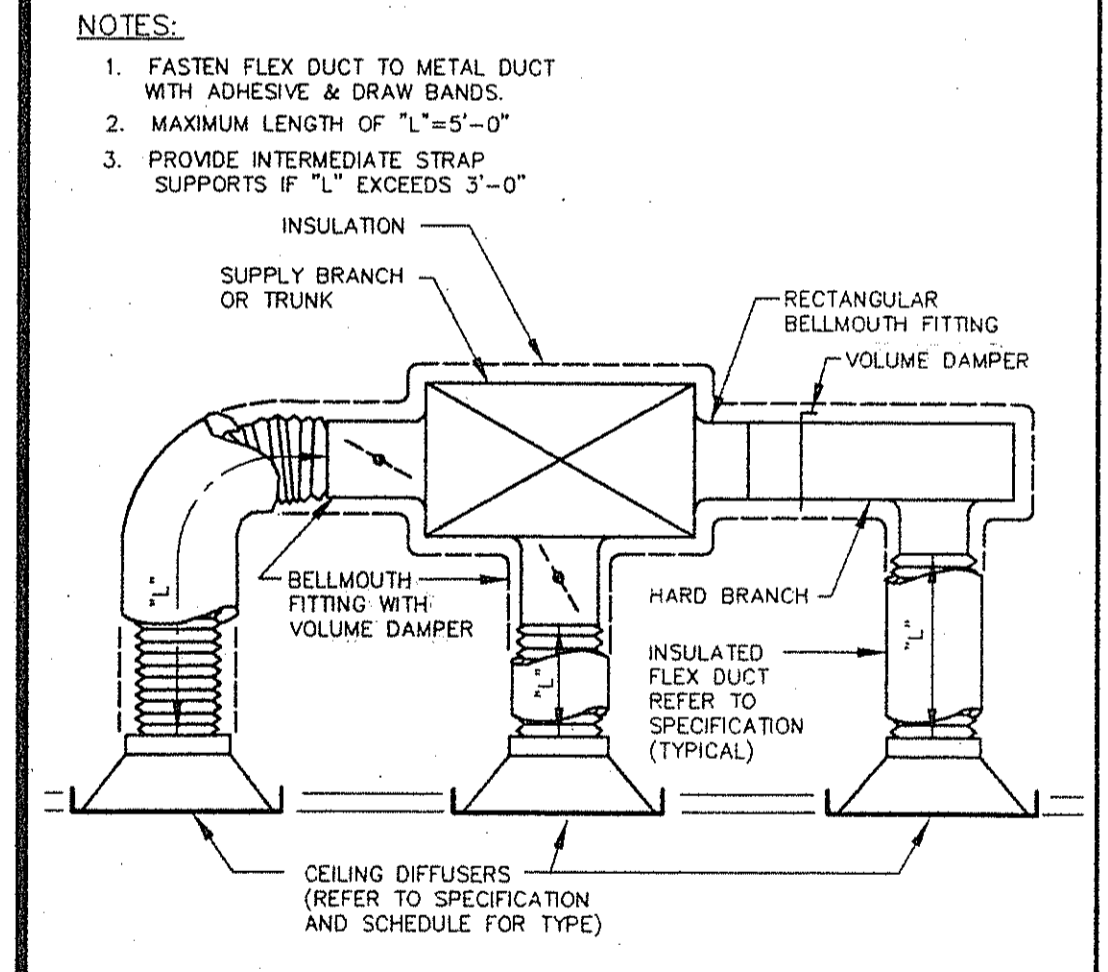
ACOUSTICAL FLOOR, CEILING & WALL PIPE SEAL  
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104



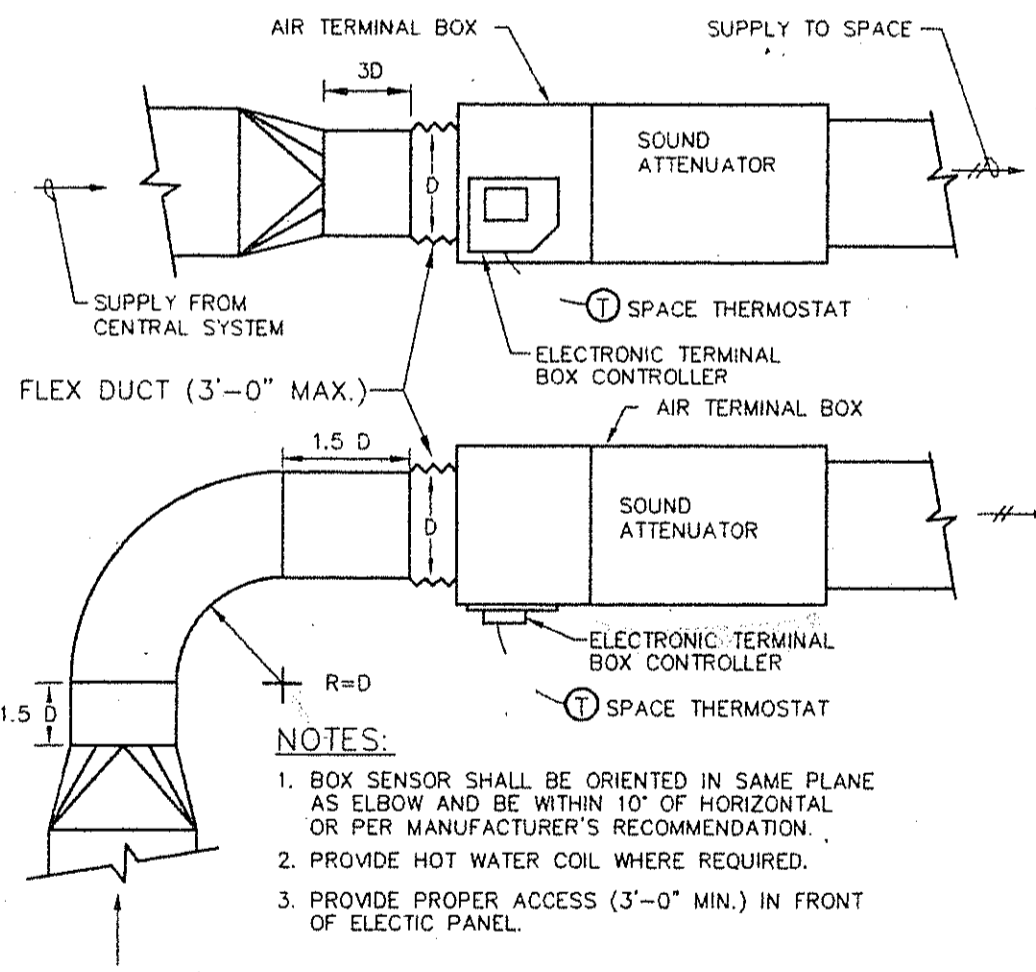
DUCT AND PIPE PENETRATIONS  
NO SCALE  
119



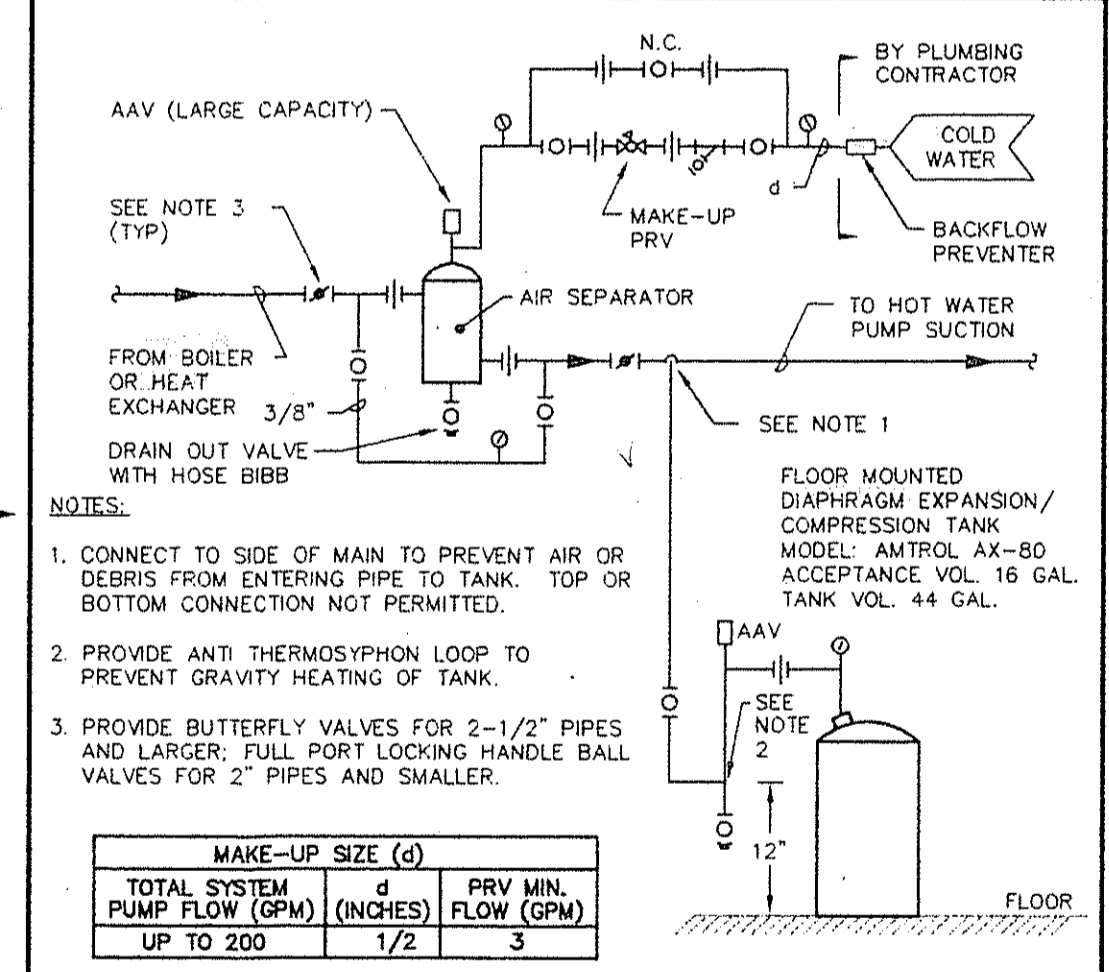
EXPANSION LOOP DETAIL  
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15614-05



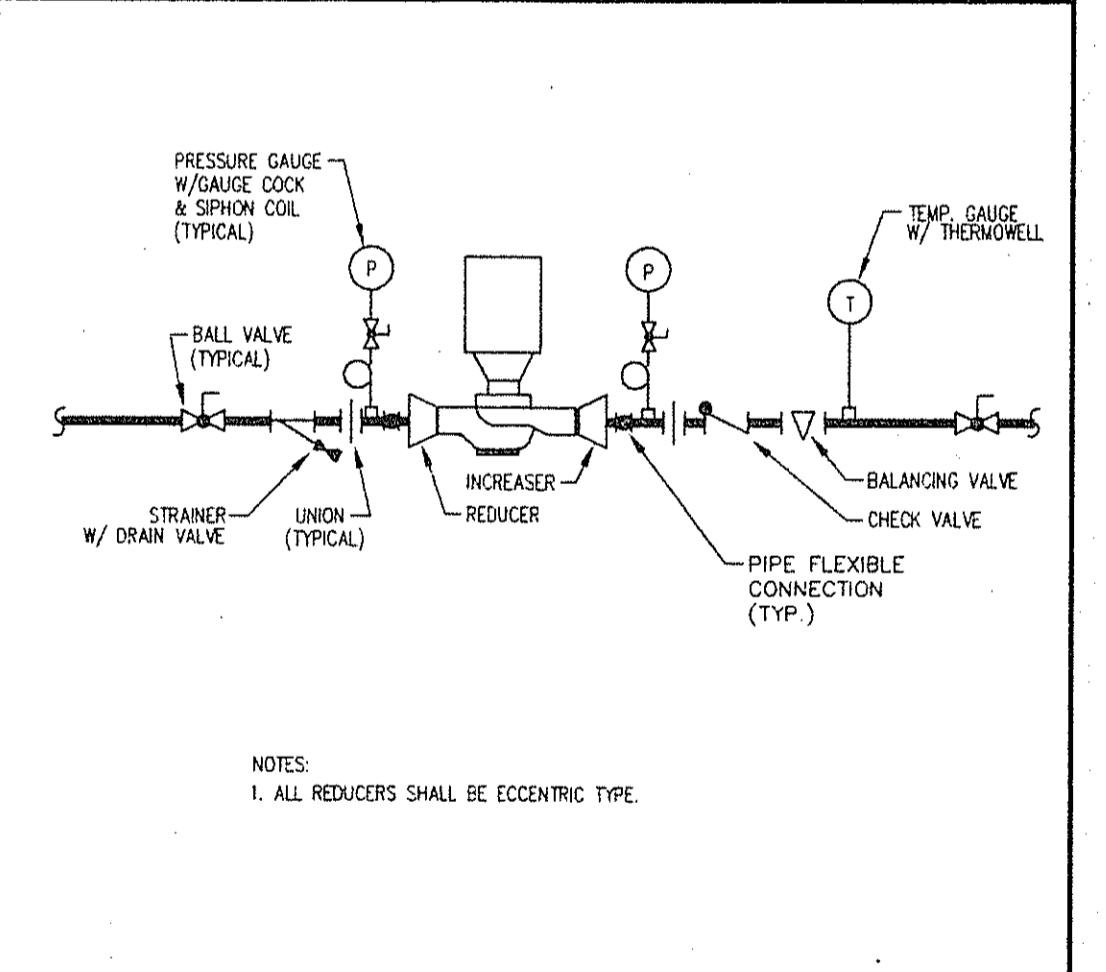
INSTALLATION AT CEILING DIFFUSERS  
NO SCALE  
15613-12



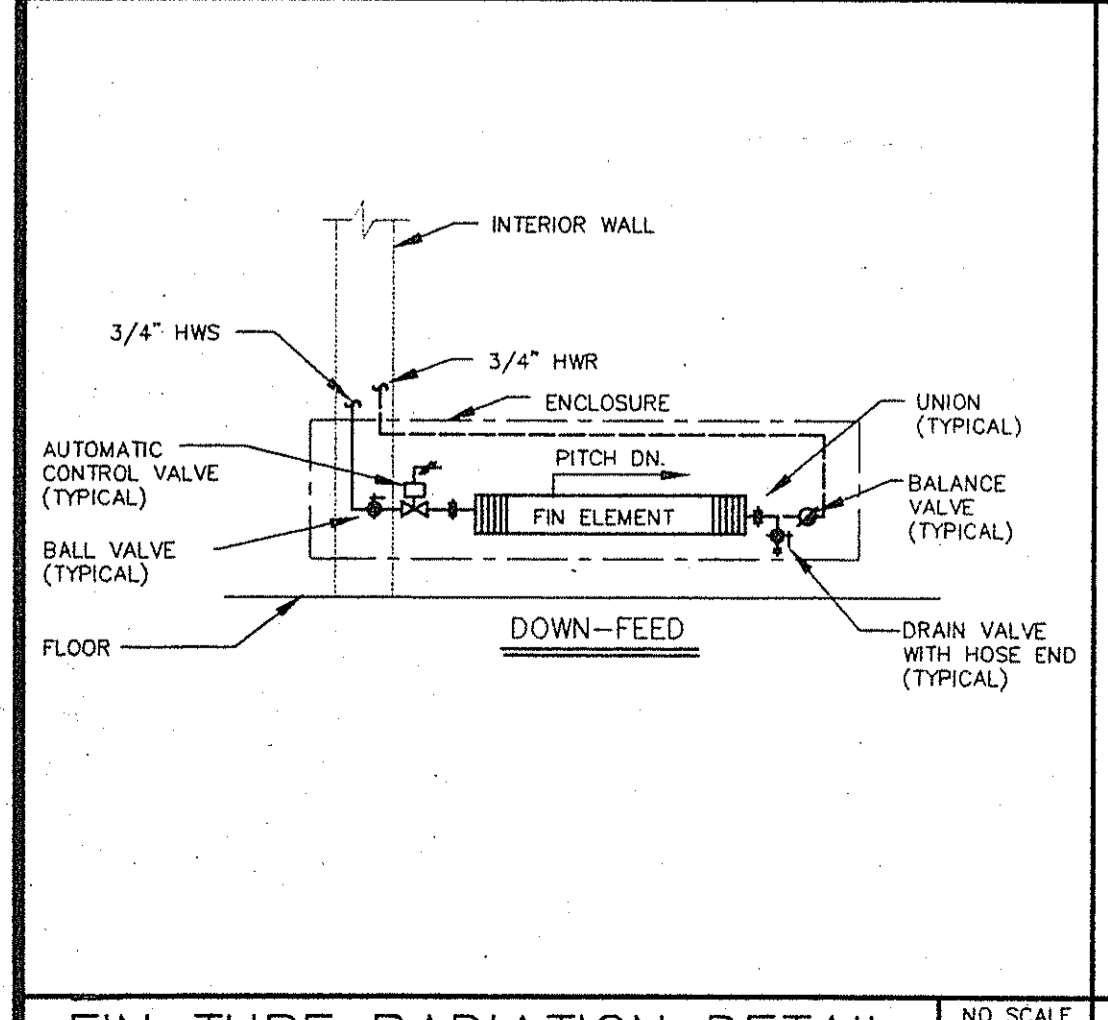
AIR TERMINAL BOX CONNECTIONS (HARD DUCTED)  
NO SCALE  
100



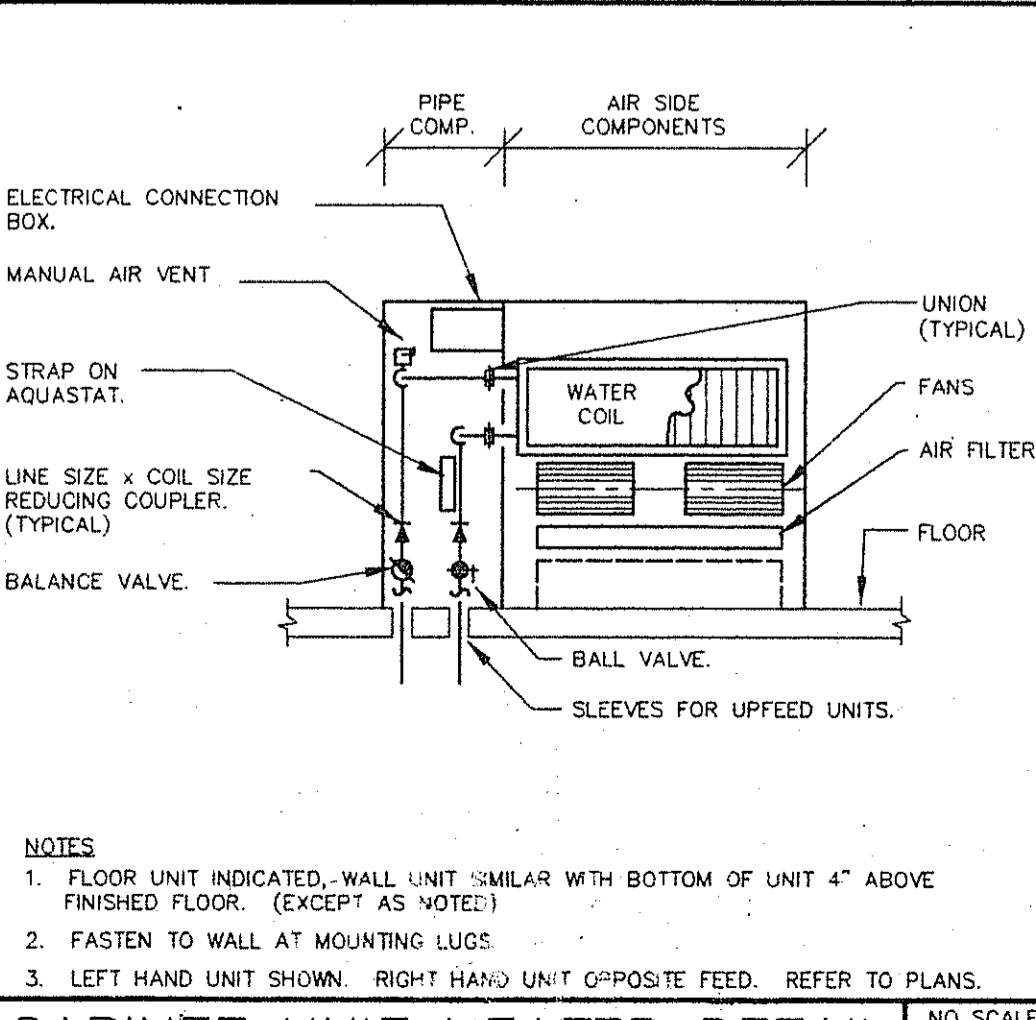
MAKE-UP WATER, DIAPHRAGM EXPANSION TANK, & AIR SEPARATOR, FOR HOT WATER SYSTEM  
NO SCALE  
100



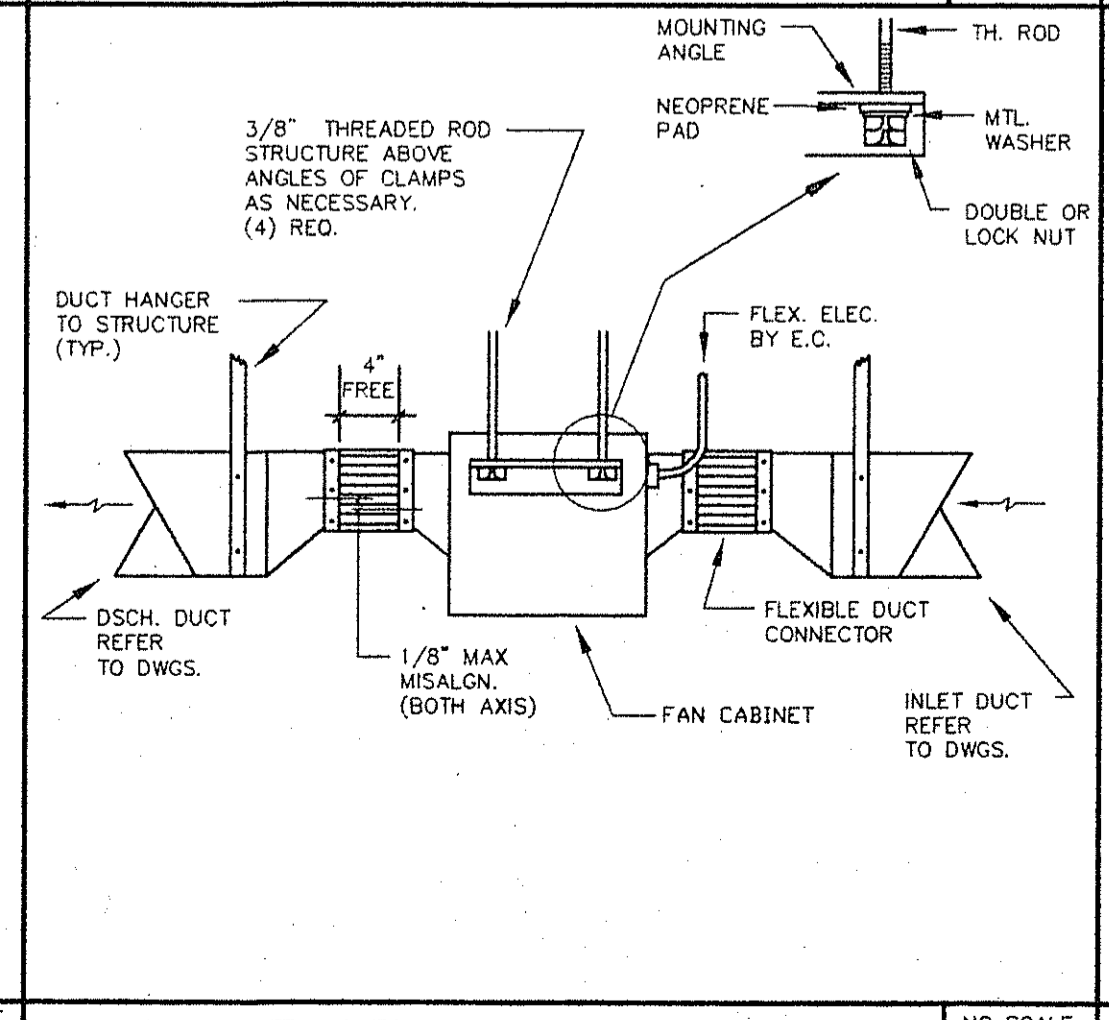
INLINE PUMP VALVE STATION  
NO SCALE  
101



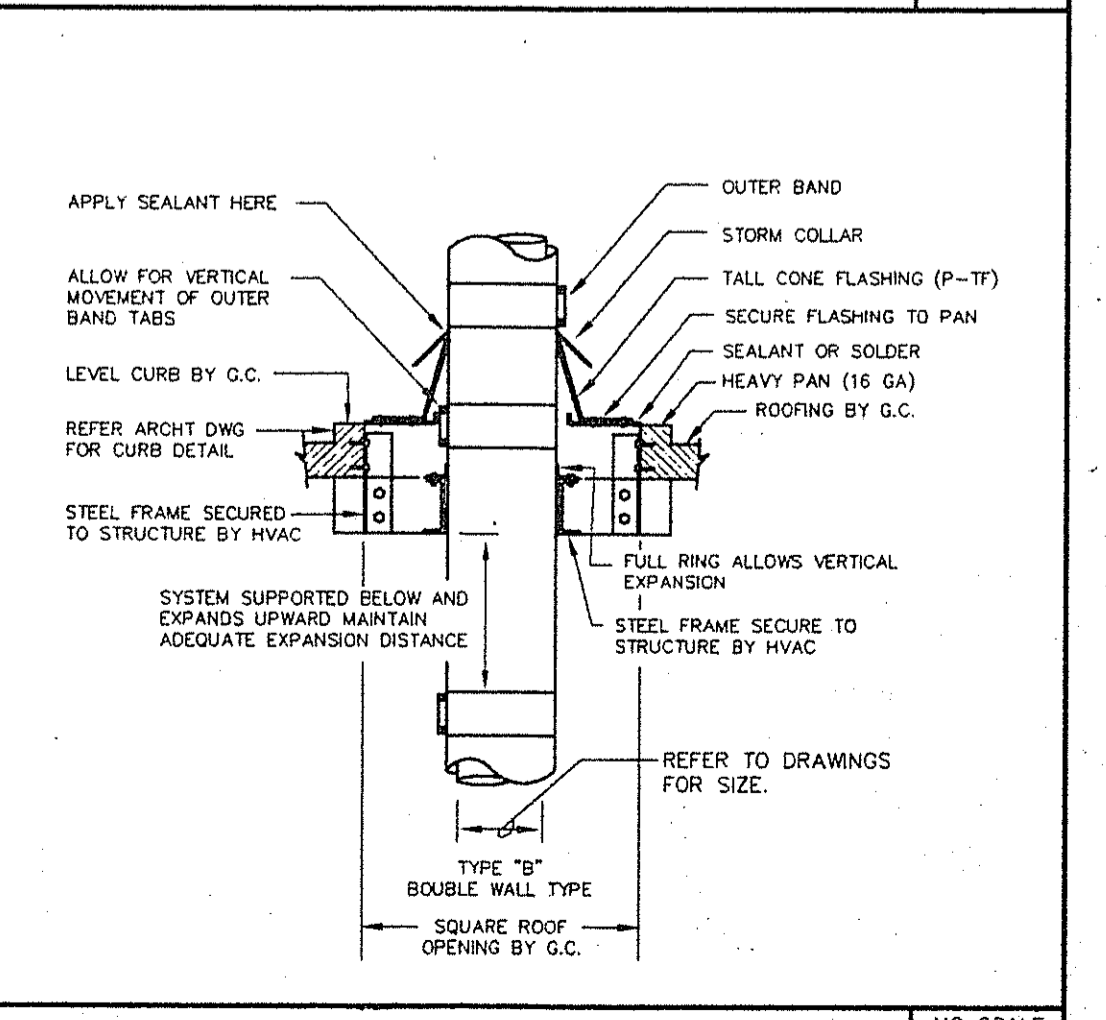
FIN TUBE RADIATION DETAIL  
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15649-02



CABINET UNIT HEATER DETAIL  
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15647-01



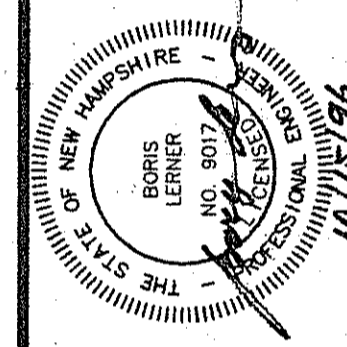
INLINE CEILING EXHAUSTER  
NO SCALE  
15679-01



FLUE ROOF SUPPORT DETAIL  
NO SCALE  
15683-01

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Manchester

1 GENERAL REVISIONS 10/29/96

DETAILS

date: 7/3/96  
proj. no.

H-3

SCHEDULE OF LIGHTING FIXTURES

FIXTURE TYPE	MANUFACTURER OR APPROVED EQUAL	CATALOG NUMBER	LAMPS	MOUNTING	NOTES
F1	LITHONIA	T-CNAT-G-2-32-203LD-120-GEB	4-F032W/T8/3K	CEILING RECESSED	
F1A	LITHONIA	T-CNAT-G-2-32-203LD-120-GEB-EM(BODINE)	4-F032W/T8/3K	CEILING RECESSED	#6
F2	LITECONTROL	P-ID-92-24-(12'x12')-TB-PARSS-CXX-ELB-120 EF(BODINE)-ACC/F-ACC/V CORNERS PI-9200-C90-CXX	24-F032W/T8/3K	PENDANT	#4,5,9,12
F3	LITECONTROL	P-ID-92-20-(12'x8')-TB-PARSS-CXX-ELB-120 -ACC/F-ACC/V CORNERS PI-9200-C90-CXX	20-F032W/T8/3K	PENDANT	#4,5,9,12
F4	LITECONTROL	P-ID-92-32-(16'x16')-TB-PARSS-CXX-ELB-120 EF(BODINE)-ACC/F-ACC/V CORNERS PI-9200-C90-CXX	32-F032W/T8/3K	PENDANT	#4,5,9,12
F5	LITHONIA	AF-2-180TT-BAR-120-GEB	2-18W QUAD/27K/4-PIN	CEILING RECESSED	
F5A	LITHONIA	AF-2-260TT-BAR-120-GEB	2-26W QUAD/27K/4-PIN	CEILING RECESSED	
F5B	LITHONIA	AF-2-130TT-BAR-120-GEB	2-13W QUAD/27K/4-PIN	CEILING RECESSED	
F5C	LITHONIA	AF-2-180TT-BAR-120-GEB-EM(BODINE)	2-18W QUAD/27K/4-PIN	CEILING RECESSED	#6
F5D	LITHONIA	AF-2-260TT-BAR-120-GEB-EM(BODINE)	2-26W QUAD/27K/4-PIN	CEILING RECESSED	#6
F5E	LITHONIA	AF-2-130TT-BAR-120-GEB-EM(BODINE)	2-13W QUAD/27K/4-PIN	CEILING RECESSED	#6
F6	LAM	LDL41-6/55-1/3820-A-CH-XX-XX	6-55W BIAx/27K/4-PIN 1-3820 BIAx/27K/4-PIN	PENDANT	#9,12
F6A	LAM	LDL41-6/55-1/3820-A-CH-XX-XX	6-55W BIAx/27K/4-PIN 1-3820 BIAx/27K/4-PIN	PENDANT	#9,12
F7	ELLIPTIPAR	T403-0150-W-00-A-ESB-02	1-Q-150-DC (QUARTZ)	WALL MOUNTED	#9
F8	LITHONIA	2PM3-G-B-2-U31(6)-12-LD-120-GED	2-FB031(6)W/T8/3K	CEILING RECESSED	
F8A	LITHONIA	2PM3-G-B-2-U31(6)-12-LD-120-GED-EM(BODINE)	2-FB031(6)W/T8/3K	CEILING RECESSED	#6
F9	LITECONTROL	P-I-85-4-8-TB-CWM-TW-ELB-120	4-F032W/T8/3K	PENDANT	#8,9
F9A	LITECONTROL	P-I-85-2-4-TB-CWM-TW-ELB-120	2-F032W/T8/3K	PENDANT	#8,9
F9B	LITECONTROL	W-AI-55-4-8-TB-TW-CWM-CXX-ELB-120	4-F032W/T8/3K	WALL	#8,9
F10	ELLIPTIPAR	F209-X239-L-02-1-00-0	2-39W BIAx 27K/4-PIN	CEILING RECESSED	
F11	LITHONIA	LGHZ-50M-7RW-FFL	1-50W ED17 MH-C	CEILING RECESSED	
F11A	LITHONIA	LGHZ-100M-7RW-FFL	1-100W ED17 MH-C	CEILING RECESSED	
F12	LITHONIA	SP-G-2-32-A12-120-GEB	2-F032W/T8/3K	CEILING RECESSED	#
F12A	LITHONIA	SP-G-2-32-A12-120-GEB-EM(BODINE)	2-F032W/T8/3K	CEILING RECESSED	#6
F13	LITHONIA	EJA-2-32-120-GEB	2-F032W/T8/3K	CEILING SURFACE	
F13A	LITHONIA	EJA-2-32-120-GEB-EM(BODINE)	2-F032W/T8/3K	CEILING SURFACE	#6
F14	LITHONIA	TWP-50M-120	1-50W MH	CUPOLA	#9
F15	LITHONIA	SB-2-32-A-120-GEB	2-F032W/T8/3K	CEILING SURFACE	
F15A	LITHONIA	SB-2-32-A-120-GEB-EM(BODINE)	2-F032W/T8/3K	CEILING SURFACE	#6
F16	KIM	WF20-P-120-HPF	1-100W MH ED-17	EXTERIOR WALL	#9,12
F17	LITHONIA	KBAG-70MH-R5-LV-120	1-70MH ED-17	EXTERIOR BOLLARD	#12
F18	QUALITY LIGHTING	SL-21-VS-MH-250-FL-208 POLE RSS-20-4.0-11	1-250MH ED-17	SINGLE HEAD POLE MOUNTED	#12,13
F18A	QUALITY LIGHTING	SL-21-VS-MH-250-FL-208 POLE RSS-20-4.0-11	2-250MH ED-17	TWIN HEAD POLE MOUNTED	#12,13
F18B	QUALITY LIGHTING	SL-21-1-MH-250-FL-208 POLE RSS-20-4.0-11	1-250MH ED-17	SINGLE HEAD POLE MOUNTED	#12,13
F19	ZED - ALTERNATE	Z40-175MH-5-208-1-P31(20)-0'0	1-175MH ED-17	SINGLE HEAD POLE MOUNTED	#12,13
F19A	ZED - ALTERNATE	Z40-175MH-3-208-1-P31(20)-0'0	1-175MH ED-17	SINGLE HEAD POLE MOUNTED	#12,13
F20	LITHONIA	LES-W-1(2)-R-120-ELN	LED	UNIVERSAL	#14

SEE DRAWING

LIGHTING FIXTURE GENERAL NOTES

- ALL FLUORESCENT AND COMPACT FLUORESCENT BALLASTS SHALL BE OF THE ELECTRONIC TYPE AND SHALL CARRY THE UL, ETL AND CBM LABELS. THE TOTAL HARMONIC DISTORTION FOR ALL ELECTRONIC BALLASTS SHALL NOT EXCEED 20%. HIGH INTENSITY DISCHARGE (HID) BALLAST SHALL BE OF THE HIGH POWER FACTOR TYPE.
- FURNISH FIXTURES WITH ALL REQUIRED MOUNTING HARDWARE. WHERE RECESSED LIGHTING FIXTURES ARE TO BE INSTALLED IN PLASTER, ACOUSTIC TILE OR GYPSUM BOARD, PLASTER FRAMES, FINISH TRIM, FITTINGS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED TO MEET THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AT EACH LOCATION.
- ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH THE REQUIRED LAMPS AND SHALL BE RATED 120-VOLTS UNLESS OTHERWISE NOTED.
- AIRCRAFT SUPPORT CABLES AND CURLY POWER CORDS SHALL BE FURNISHED WITH THE CORRECT LENGTHS.
- LIGHTING FIXTURES SHALL BE FURNISHED WITH END CAPS.
- LIGHTING FIXTURES WITH F032/T8 AND F025/T8 LAMPS SHALL BE FURNISHED WITH BODINE B-50 EMERGENCY FOR ONE OF TWO LAMP EMERGENCY OPERATION. LIGHTING FIXTURES WITH COMPACT FLUORESCENT LAMPS SHALL BE FURNISHED WITH BODINE 94-C EMERGENCY BALLAST FOR ONE OR TWO LAMP EMERGENCY OPERATION.
- THE EXACT SHIPPING LENGTH OF EACH LIGHTING FIXTURE SHALL BE DETERMINED BY THE FIXTURE MANUFACTURER AND THE MAXIMUM SHIPPING LENGTH SHALL NOT EXCEED 12 FEET FOR ANY ONE LIGHTING FIXTURE.
- TWO LAMP LIGHTING FIXTURES WITH EACH ROW OF LAMPS CONTROLLED BY A SEPARATE SWITCH FOR TWO LEVELS OF ILLUMINATION.
- THE EXACT MOUNTING HEIGHT OF ALL CEILING OR WALL MOUNTED LIGHTING FIXTURES SHALL BE DETERMINED BY THE ARCHITECT.
- PROVIDE THE REQUIRED STRAIGHT EXTENSIONS AND END CAPS FOR A CONTINUOUS WALL TO WALL INSTALLATION. VERIFY DIMENSIONS IN FIELD BEFORE FABRICATION.
- PROVIDE THE REQUIRED MITERED 90 DEGREE CORNERS. VERIFY DIMENSION IN FIELD BEFORE FABRICATION.
- THE EXACT COLOR AND FINISH OF EACH LIGHTING FIXTURE SHALL BE SELECTED BY THE ARCHITECT. INCLUDE FIXTURE STEMS WHERE APPLICABLE.
- FIXTURES TO BE MOUNTED ON 20'-0" POLE. EXACT STYLE OF POLE SHALL BE DETERMINED BY THE ARCHITECT.
- FURNISH WITH EMERGENCY BATTERY PACK. SINGLE OR DOUBLE FACE AS REQUIRED.

BRANCH CIRCUIT WIRING NOTES

- ALTHOUGH ALL BRANCH CIRCUIT WIRING IS NOT SHOWN ON THE DRAWINGS, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM IN CONDUIT RACEWAYS OR METAL CLAD TYPE MC CABLE BE INSTALLED.
- ALL MOTOR BRANCH CIRCUIT WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS FROM THE PANELS TO THE DISCONNECT SWITCHES, STARTERS AND MOTORS.
- FURNISH AND INSTALL A SEPARATE NEUTRAL CONDUCTOR FOR EACH SURGE SUPPRESSION RECEPTACLE BRANCH CIRCUIT. COMMON NEUTRAL CONDUCTORS FOR COMPUTER CIRCUITS WILL NOTE BE ALLOWED.
- METAL CLAD CABLE SHALL BE REQUIRED BETWEEN ALL OUTLETS, SWITCHES, JUNCTION BOXES AND EQUIPMENT SHOWN ON THE DRAWINGS FOR RECEPTACLE AND LIGHTING BRANCH CIRCUITS. CIRCUIT NUMBERS, SWITCH CONTROLS AND PANEL DESIGNATIONS ARE AS SHOWN ON THE DRAWINGS.
- ALL FEEDER CONDUCTORS SHALL BE INSTALLED IN CONDUIT RACEWAYS.
- ALL LIGHTING, RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE CIRCUIT NUMBER INDICATED ON THE OUTLET.
- ALL RECEPTACLE AND MOTOR BRANCH CIRCUITS SHALL BE PROVIDED WITH AN INSULATED COPPER GROUND WIRE.
- ALL BRANCH CIRCUIT WIRING WITHIN JUNCTION BOXES SHALL BE TAGGED AND IDENTIFIED. ALL JUNCTION BOXES SHALL BE IDENTIFIED AS TO PANEL ORIGINATOR.
- ALL NETWORK BRANCH CIRCUITS SHALL BE PROPERLY PHASED OUT IN EACH PANELBOARD.

NOTES

- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANCE RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRESTOPPED BY THE ELECTRICAL SUBCONTRACTOR USING APPROVED METHODS TO MAINTAIN THE FIRE-RESISTANCE RATING.
- NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE ELECTRIC ROOM.

FIRE ALARM SYSTEM

- F** — FIRE ALARM SYSTEM MANUAL PULL STATION. NUMERAL INDICATES ZONE NUMBER. SIMPLEX SERIES 2099-9754 OR APPROVED EQUAL.
- F** — FIRE ALARM SYSTEM PULL STATION WITH HORN/STROBE UNIT UNIT ABOVE (ADA CODE).
- A** — FIRE ALARM SYSTEM STROBE UNIT (ADA CODE). LETTER INDICATES STROBE LIGHT CIRCUIT. SIMPLEX SERIES 4903-9137 OR APPROVED EQUAL.
- B** — FIRE ALARM SYSTEM COMBINATION HORN/STROBE LIGHT UNIT (ADA CODE). LETTER INDICATES STROBE LIGHT CIRCUIT. NUMERAL INDICATES HORN CIRCUIT. SIMPLEX SERIES 4903-9106 OR APPROVED EQUAL.
- S** — FIRE ALARM SYSTEM PHOTO-ELECTRIC SMOKE DETECTOR. NUMERAL INDICATES ZONE NUMBER. SIMPLEX SERIES 2098-9203 OR APPROVED EQUAL.
- D** — FIRE ALARM SYSTEM HEAT DETECTOR. NUMERAL INDICATES ZONE NUMBER. SIMPLEX SERIES 2098-9445 OR APPROVED EQUAL.
- R** — FIRE ALARM SYSTEM REMOTE ALARM INDICATOR. SIMPLEX SERIES 2098-9800 OR APPROVED EQUAL.
- A** — FIRE ALARM SYSTEM REMOTE ALARM INDICATOR AND TEST SWITCH. SIMPLEX SERIES 2098-9805.
- B** — FIRE ALARM SYSTEM DUCT SMOKE DETECTOR. FURNISHED AND WIRED BY ELECTRICAL SUBCONTRACTOR. INSTALLED BY HVAC SUBCONTRACTOR. SIMPLEX SERIES 2098-9849 OR APPROVED EQUAL.
- FD** — FIRE DOOR. FURNISH AND INSTALLED BY DOOR HARDWARE. WIRED BY ELECTRICAL SUBCONTRACTOR.
- ANN** — RECESSED MOUNTED FIRE ALARM ANNUCIATOR PANEL - SIMPLEX 602 OR APPROVED EQUAL.
- FACP** — SURFACE MOUNTED FIRE ALARM CONTROL PANEL. SIMPLEX SERIES 4002 OR APPROVED EQUAL.
- B** — FIRE ALARM SYSTEM RED STROBE BEACON LIGHT. THE EXACT LOCATION SHALL BE DETERMINED ON THE JOB BY THE ARCHITECT. SIMPLEX M-800 OR APPROVED EQUAL.
- KB** — FIRE ALARM KNOX BOX. MODEL #3200 OR APPROVED EQUAL. EXACT LOCATION AND MOUNTING HEIGHT TO BE DETERMINED ON THE JOB BY THE ARCHITECT.

INTRUSION ALARM SYMBOLS

- A** — WALL MOUNTED PASSIVE INFRARED (PIF) MOTION DETECTOR - SIMPLEX SECURITY SYSTEM DR380 SERIES OR APPROVED EQUAL. FURNISH WITH SWIVEL MOUNTING BRACKETS. NUMERAL INDICATES ZONE NUMBER.
- A** — WALL MOUNTED LONG RANGE PASSIVE INFRARED (PIF) MOTION DETECTOR - SIMPLEX SECURITY SYSTEM PR-600 SERIES OR APPROVED EQUAL. FURNISH WITH SWIVEL MOUNTING BRACKETS. NUMERAL INDICATES ZONE NUMBER.
- E** — CONCEALED STEEL OR WOOD DOOR TYPE MAGNETIC CONTACTS - SIMPLEX SECURITY SYSTEMS 1125T SERIES OR APPROVED EQUAL. NUMERAL INDICATES ZONE NUMBER.
- C** — CEILING MOUNTED PASSIVE INFRARED (PIF) MOTION DETECTOR - SIMPLEX SECURITY SYSTEM PR569 SERIES OR APPROVED EQUAL WITH CEILING MOUNTING PLATE. NUMERAL INDICATES ZONE NUMBER.
- G** — CEILING MOUNTED GLASS BREAK DETECTOR. SIMPLEX SECURITY SYSTEM 5775 SERIES OR APPROVED EQUAL WITH CEILING MOUNTING PLATE. NUMERAL INDICATES ZONE NUMBER.
- S** — RECESSED SPEAKER/SIREN - SIREN DRIVER LOCATED IN CONTROL PANEL. SIMPLEX SECURITY SYSTEMS 3009-9829 OR APPROVED EQUAL.
- KP** — RECESSED KEY PAD (LCD) - SIMPLEX 3009-4820 OR APPROVED EQUAL. TWO (2) REQUIRED. PROVIDE A CLEAR PLASTIC LOCKABLE COVER FOR EACH KEY PAD.
- — SURFACE MOUNTED CONTROL COMMUNICATOR PANEL - SIMPLEX SECURITY SYSTEM 3003 SERIES OR APPROVED EQUAL.

MISCELLANEOUS SYMBOLS

- P** — TELEPHONE OUTLET. 4" SQUARE BOX WITH SINGLE GANG PLASTER RING. M INDICATES MASTER. P INDICATES PAY PHONE. W INDICATES WALL MOUNTED. D INDICATES DESK. [2] INDICATES DUPLEX OUTLET.
- ▲** — DATA OUTLET. 4" SQUARE BOX WITH SINGLE GANG PLASTER RING. [2] INDICATES DUPLEX OUTLET.
- — TELEVISION OUTLET - 4" SQUARE BOX WITH SINGLE GANG PLASTER RING. FURNISHED WITH TYPE F CONNECTOR.
- S** — MOTOR. NUMERAL INDICATES HORSEPOWER.
- S** — REMOTE MOUNTED MAGNETIC MOTOR STARTER.
- — MOTOR RATED DISCONNECT SWITCH.
- S** — COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH.
- F** — FUSED DISCONNECT SWITCH. SIZED AND FUSED IN ACCORDANCE WITH THE MOTOR MANUFACTURER'S REQUIREMENTS.
- §** — THERMAL SWITCH FOR MOTORS LESS THAN 1/2 HP.
- — METAL CLAD TYPE MC CABLE - ARROW INDICATES HOME RUN. DIAGONAL LINES INDICATE NUMBER OF #12 AWG WIRES. DOT INDICATES #12 AWG GREEN EQUIPMENT GROUND WIRE. (UNLESS OTHERWISE NOTED)
- — JUNCTION BOX.
- — LIGHTING OR RECEPTACLE PANEL.
- — POWER PANEL.
- TC** — TIME CLOCK.
- S** — RECESS CEILING MOUNTED 8" SPEAKER WITH BACKBOX AND FACEPLATE LOCATED IN CLASSROOM 203. SPEAKERS SHALL BE DUKANE 5A806/6A342B/145-228 OR APPROVED EQUAL.
- M** — MICROPHONE OUTLET WITH XLR CONNECTOR.
- J** — JUNCTION BOX LOCATED ADJACENT TO HVAC VAV BOXES. PROVIDE 120-VOLT SUPPLY AT EACH LOCATION FOR EXTENSION BY ATC SUBCONTRACTOR.

SYMBOL LIST

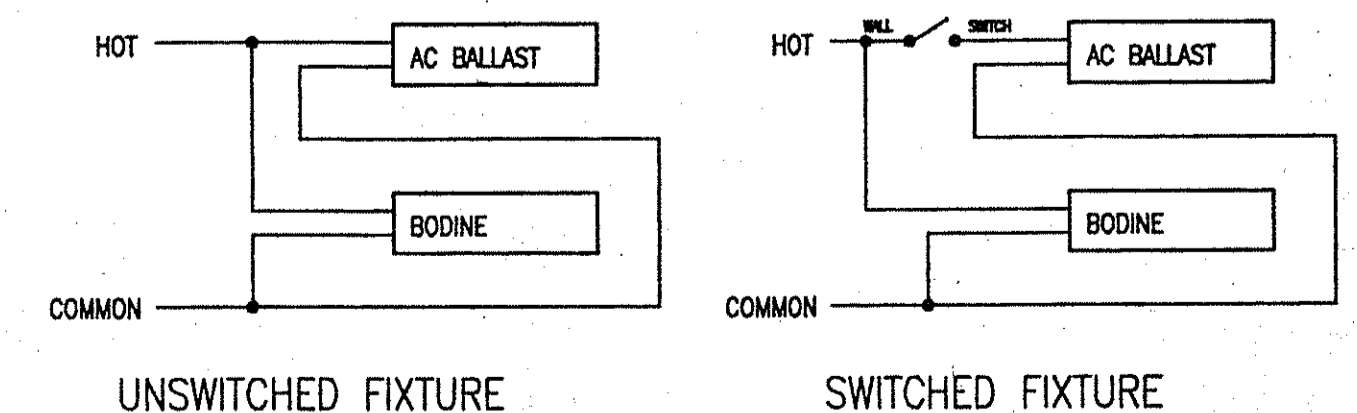
- 1 A** — CEILING MOUNTED LIGHT OUTLET. LETTER INDICATES SWITCH CONTROL A; NUMERAL INDICATES CIRCUIT NUMBER 1; PC FOLLOWED BY A NUMERAL INDICATES FIXTURE TYPE.
- 1' X 4'** — 1' X 4' RECESSED OR PENDANT MOUNTED FLUORESCENT LIGHTING FIXTURE.
- 2' X 2'** — 2' X 2' RECESSED OR PENDANT MOUNTED FLUORESCENT LIGHTING FIXTURE.
- — SURFACE OR PENDANT MOUNTED FLUORESCENT LIGHTING FIXTURE.
- — UNDERCABINET FLUORESCENT LIGHTING FIXTURE.
- — RECESSED MOUNTED DOWNLIGHT - FLUORESCENT.
- — PENDANT OR SURFACE MOUNTED LIGHTING FIXTURE.
- — WALL MOUNTED LIGHTING FIXTURE.
- ⊗** — LIGHTING FIXTURE WITH EMERGENCY BODINE BALLAST.
- ⊗** — CEILING MOUNTED EXIT LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK OF INDICATES DOUBLE FACED.
- ⊗** — WALL MOUNTED EXIT LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK. ARROWS INDICATE DIRECTION. OF INDICATES DOUBLED FACED.
- — SINGLE HEAD EXTERIOR LIGHTING FIXTURE MOUNTED ON 20'-0" POLE.
- — TWIN HEAD EXTERIOR LIGHTING FIXTURE MOUNTED ON 20'-0" POLE.
- — EXTERIOR BOLLARD LIGHTING FIXTURE.
- ⊗** — TWIN HEAD EMERGENCY LIGHTING BATTERY UNIT SHALL BE LITHONIA ELU2 OR APPROVED EQUAL.

SWITCHES

- S** — SINGLE POLE SWITCH - UPPER LETTER INDICATES SWITCH CONTROL. ARROW HART #1991.
- S** — DOUBLE POLE SWITCH. ARROW HART #1992 OR APPROVED EQUAL.
- S** — THREE WAY SWITCH. ARROW HART #1993 OR APPROVED EQUAL.
- S** — FOUR WAY SWITCH. ARROW HART #1994 OR APPROVED EQUAL.
- S** — INCANDESCENT DIMMER SWITCH. LUTRON NT-1000 OR APPROVED EQUAL.
- US** — RECESSED CEILING MOUNTED LIGHTING SENSOR - WATT STOPPER W-500A OR APPROVED EQUAL. REFER TO WIRING DIAGRAM AND SPECIFYING NOTES.
- ▲** — RECESSED CEILING OR WALL MOUNTED LIGHTING SENSOR - WATT STOPPER CI-100 OR APPROVED EQUAL. REFER TO WIRING DIAGRAM AND SPECIFYING NOTES. FURNISHED WITH THE REQUIRED CEILING AND WALL SWIVEL BRACKETS.
- ▲** — RECESSED WALL MOUNTED LIGHTING SENSOR - WATT STOPPER DT-100L OR APPROVED EQUAL. REFER TO WIRING DIAGRAM AND SPECIFYING NOTES. FURNISHED.

RECEPTACLES

- FOR EXACT LOCATION AND MOUNTING HEIGHT REFER TO THE ARCHITECTURAL DRAWINGS.
- ⊕** — DUPLEX RECEPTACLE - 20A-125V-3W WITH GROUND SLOT. ARROW HART #5362 OR APPROVED EQUAL.
  - ⊕ [2]** — DUPLEX RECEPTACLE - [2] INDICATES TWO DUPLEX RECEPTACLE.
  - ⊕** — DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER UNLESS OTHERWISE NOTED.
  - ⊕** — GROUND FAULT INTERRUPTER - DUPLEX RECEPTACLE - 20A-125V-3W WITH GROUND SLOT. ARROW HART GF5342 OR APPROVED EQUAL.
  - ⊕** — DUPLEX SURGE SUPPRESSION RECEPTACLE - 20A-125V-3W. SEPARATE NEUTRALS FOR EACH CIRCUIT. HUBBELL #5352-S OR APPROVED EQUAL.
  - ⊕ IG** — DUPLEX ISOLATED GROUND, SURGE SUPPRESSION RECEPTACLE - 20-125V-3W WITH GROUND SLOT. HUBBELL #G5352-S OR APPROVED EQUAL.
  - ⊕** — FLOOR BOX CONTAINING TWO (2) DUPLEX SURGE SUPPRESSION RECEPTACLES AND TWO (2) LEVEL 5 DATA OUTLETS. FLOOR BOX SHALL CONTAIN THE REQUIRED RECEPTACLES, DATA AND BLANK PLATES. FLOOR BOX SHALL BE WALKER RFB4-C1 OR APPROVED EQUAL WITH A RAKMII FLUSH ACCESS HATCH. PROVIDE CARPET TRIM AND WIRE MANAGEMENT BLOCKS.



WIRING DIAGRAM FOR LIGHTING FIXTURE WITH BODINE EMERGENCY BALLASTS

N.T.S.

REVISION #1  
SEPTEMBER 23, 1996

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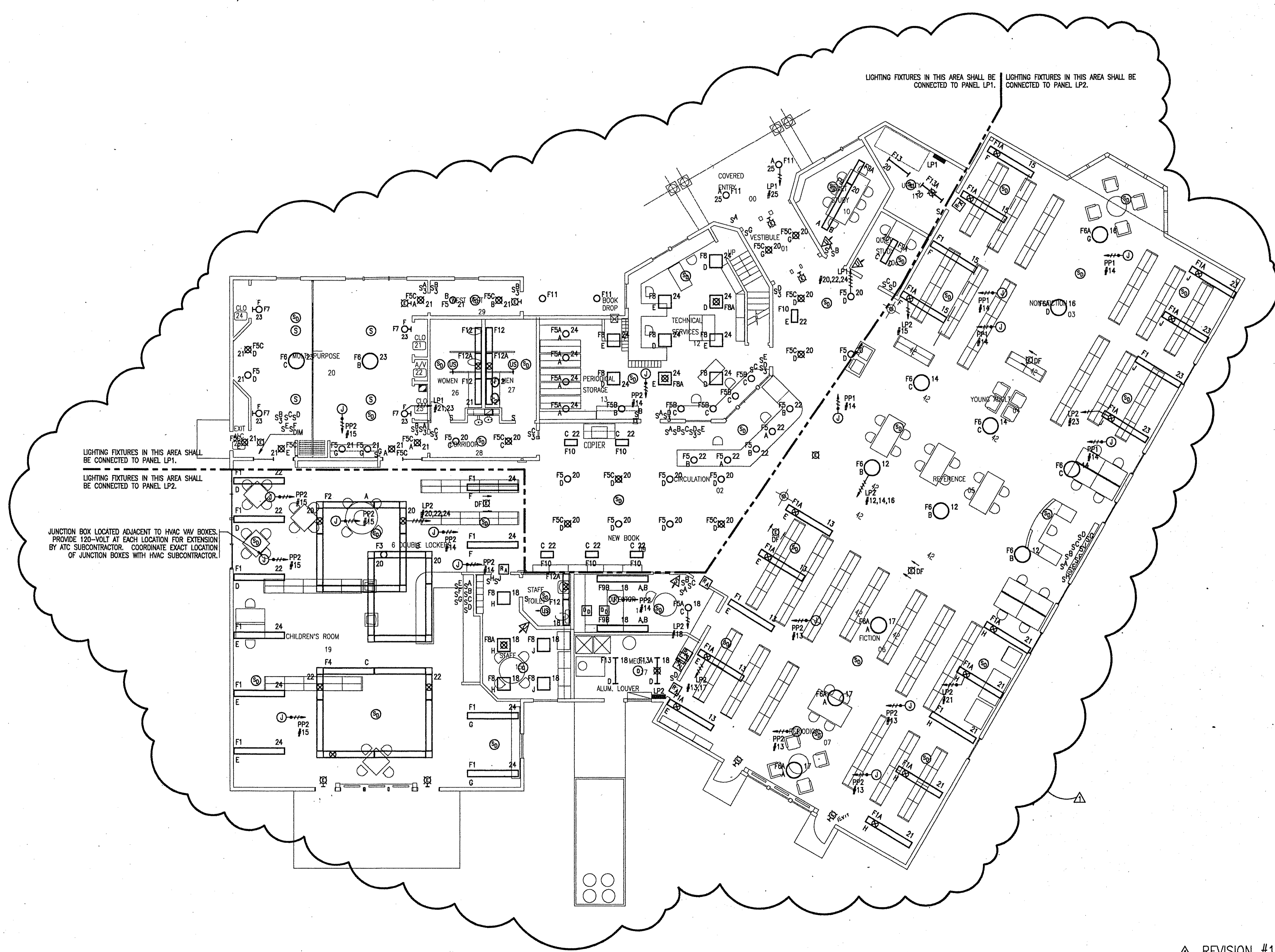
DENNIS MILES, P.A. THE ARCHITECTS 687 UNION STREET, Manchester, New Hampshire. Tel: 603-665-4646 Fax: 603-665-1067

SYMBOL LIST AND LIGHTING FIXTURE SCHEDULE

Scale: NONE  
Date: 7-25-96

Proj. No.

E-1



LIGHTING FIXTURES IN THIS AREA SHALL BE CONNECTED TO PANEL LP1.

LIGHTING FIXTURES IN THIS AREA SHALL BE CONNECTED TO PANEL LP2.

JUNCTION BOX LOCATED ADJACENT TO HVAC VAV BOXES. PROVIDE 120-VOLT AT EACH LOCATION FOR EXTENSION BY ATC SUBCONTRACTOR. COORDINATE EXACT LOCATION OF JUNCTION BOXES WITH HVAC SUBCONTRACTOR.

LIGHTING FIXTURES IN THIS AREA SHALL BE CONNECTED TO PANEL LP1.

LIGHTING FIXTURES IN THIS AREA SHALL BE CONNECTED TO PANEL LP2.

△ REVISION #1  
SEPTEMBER 23, 1996

N.E.S.M.I.  
NATIONAL ELECTRICAL SOCIETY OF MASSACHUSETTS

N.E.S.M.I.  
ROUTING SLIP

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**THOMPSON ENGINEERING COMPANY, INC.**  
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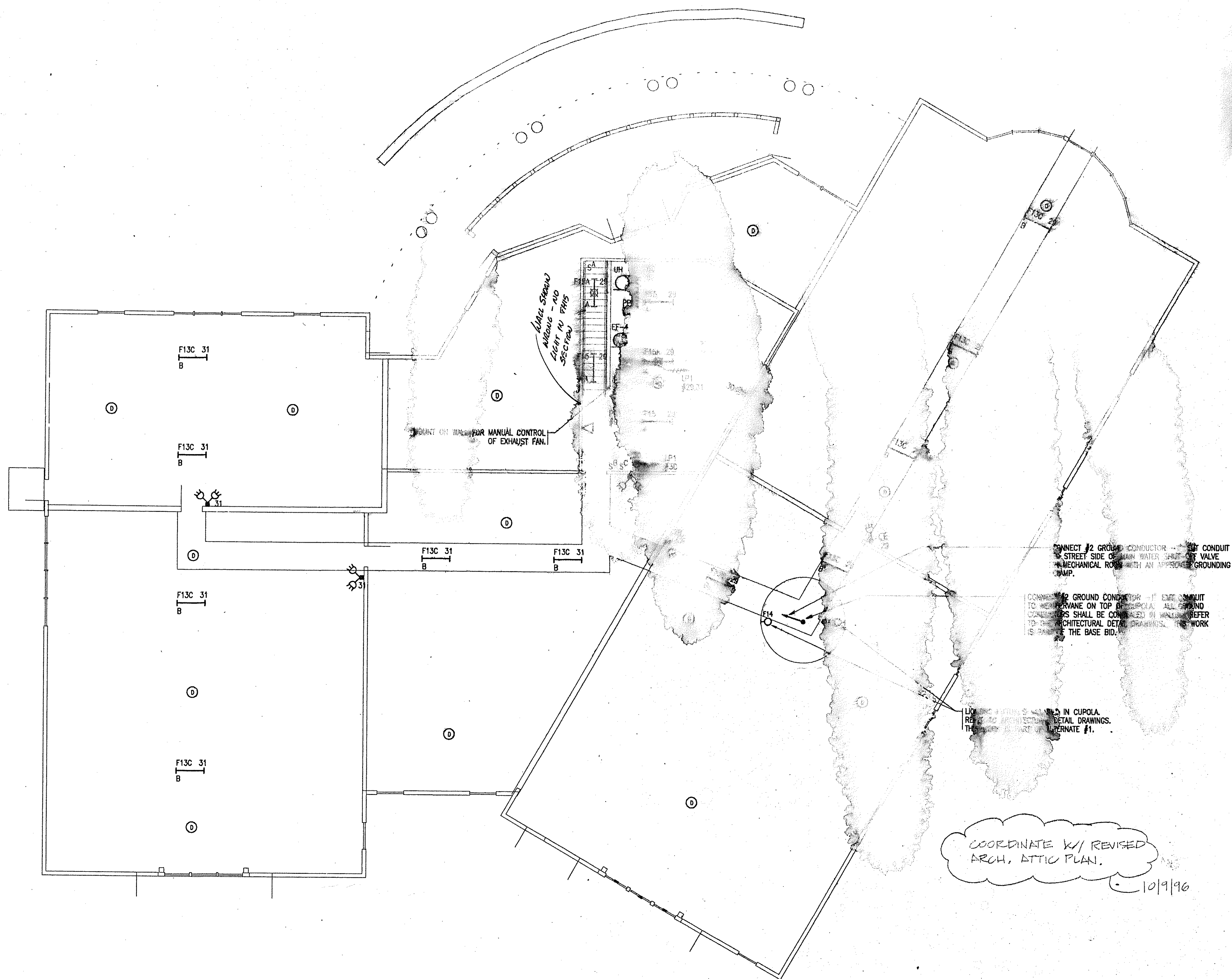
**DENNIS MIRE, P.A.**  
THE ARCHITECTS  
687 UNION STREET  
Manchester, New Hampshire  
Tel. 603-625-4549 Fax. 603-625-1057

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LIGHTING PLAN

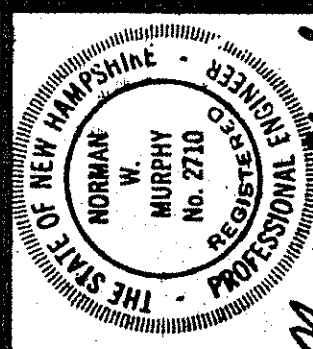
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Date: 7-25-96

Proj. No. **E-2**



NEVILLE BARRARY  
ROBERT AND NORTH LOWELL ROAD, WINDHAM, N.H.

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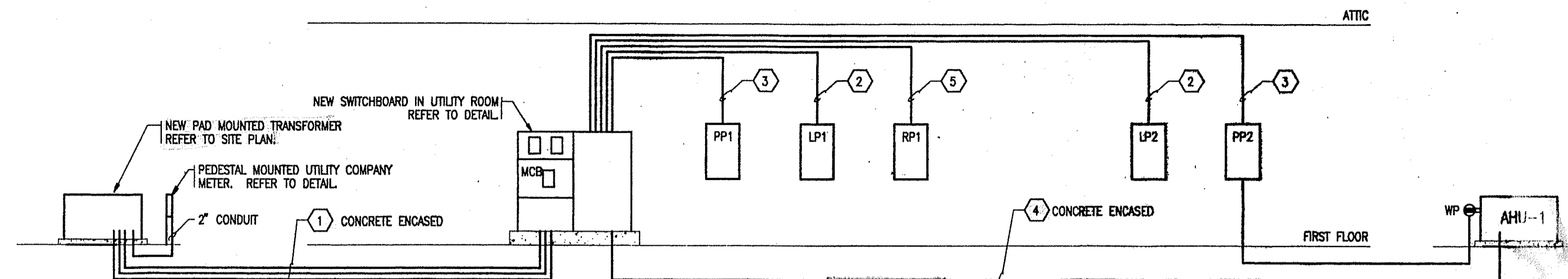
ATTIC PLAN

Scale: 1/8" = 1'-0"  
Date: 7-25-98

Proj. No.

E-4

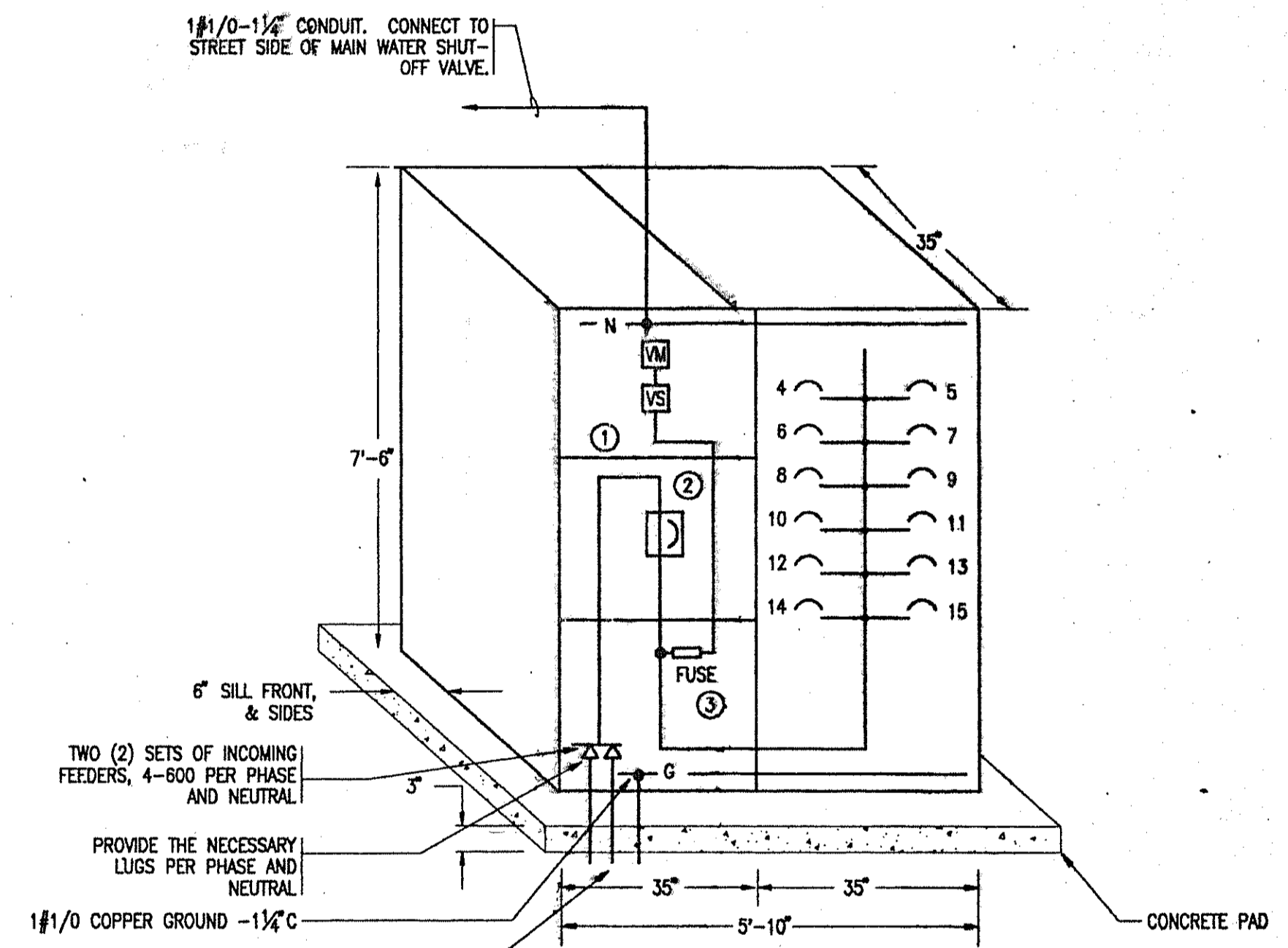
SCHEDULE OF POWER PANEL PP1			
120/208-VOLTS 3-PHASE 4-WIRE WITH EQUIPMENT GROUND TERMINAL BUS - DOOR-IN-DOOR TRIM			
POS. NO.	BREAKER FRAME-TRIP-POLE	PROTECTS FEEDER TO	CIRCUIT BREAKER GENERAL ELECTRIC CO OR APPROVED EQUAL
1	100/20/1P	CABINET UNIT HEATERS - CUH-2	TED
2	100/15/1P	CABINET UNIT HEATERS - CUH-1	TED
3	100/15/1P	EXHAUST FAN EF-1	TED
4	100/15/1P	EXHAUST FAN EF-2	TED
5	100/20/1P	ELECTRIC HOT WATER HEATER	TED
6	100/15/1P	ELECTRIC WATER COOLER	TED
7	100/20/1P	MOTORIZED PROJECTION SCREEN	TED
8	100/15/1P	UNIT HEATER - UH-1 - ATTIC	TED
9	100/20/1P	UNIT HEATER (UH) & EXHAUST FAN (EF4) - ATTIC	TED
10	100/20/1P	FIRE ALARM SYSTEM CONTROL PANEL	TED
11	100/20/1P	FIRE DOOR MOTOR	TED
12	100/20/1P	FIRE ALARM SYSTEM CONTROL PANEL	TED
13	100/20/1P	FIRE DOOR MOTOR	TED
14	100/20/1P	VAV BOXES	TED
15	100/20/1P	FIRE DOOR MOTOR	TED
16	100/20/3P	SPARE	TED
17	100/20/3P	SPARE	TED
18	100/20/1P	SPARE	TED
19	100/20/1P	SPARE	TED
20	100/20/1P	SPARE	TED
21	100/20/1P	SPARE	TED
22	100/--/1P	SPACE & BUS	TED
23	100/--/3P	SPACE & BUS	TED



FEEDER WIRE & CONDUIT SIZE SCHEDULE	
TAG	DESCRIPTION
①	2-4" CONDUITS CONTAINING 4#600 MCM EACH (MULTIPLE FEEDERS) AND 1#1/0 COPPER GROUND IN 1 1/2" C
②	4#2 & 1#6 GRD - 1 1/4" CONDUIT
③	4#4 & 1#6 GRD - 1 1/4" CONDUIT
④	3#350 MCM & 1#2 GRD - 3" CONDUIT
⑤	4#1/0 MCM & 1#6 GRD - 2" CONDUIT

SCHEDULE OF POWER PANEL PP2			
120/208-VOLTS 3-PHASE 4-WIRE WITH EQUIPMENT GROUND TERMINAL BUS - DOOR-IN-DOOR TRIM			
POS. NO.	BREAKER FRAME-TRIP-POLE	PROTECTS FEEDER TO	CIRCUIT BREAKER GENERAL ELECTRIC CO OR APPROVED EQUAL
1	100/15/3P	PUMP P1	TEB
2	100/15/3P	PUMP P2	TEB
3	100/15/1P	EXHAUST FAN EF-3	TEB
4	100/20/1P	ELECTRIC HOT WATER HEATER	TEB
5	100/15/1P	UNIT HEATER - UH-1	TEB
6	100/20/1P	ELECTRIC HOT WATER HEATER	TEB
7	100/15/1P	CABINET UNIT HEATER CUH-1	TEB
8	100/30/3P	BOILER CONTROL PANEL	TEB
9	100/20/1P	AUTOMATIC TEMPERATURE CONTROL	TEB
10	100/20/1P	MECHANICAL ROOM LIGHTING AND RECEPTACLE	TEB
11	100/20/1P	AHU-1 GROUND FAULT RECEPTACLES	TEB
12	100/20/1P	INTRUSION ALARM PANEL	TEB
13	100/20/1P	VAV BOXES	TEB
14	100/20/1P	VAV BOXES	TEB
15	100/20/1P	VAV BOXES	TEB
16	100/20/3P	SPARE	TEB
17	100/20/3P	SPARE	TEB
18	100/20/1P	SPARE	TEB
19	100/20/1P	SPARE	TEB
20	100/20/1P	SPARE	TEB
21	100/15/1P	SPARE	TEB
22	100/--/3P	SPACE & BUS	TEB
23	100/--/3P	SPACE & BUS	TEB

SCHEDULE OF MAIN SECONDARY SWITCHBOARD			
120/208-VOLTS 3-PHASE 4-WIRE WITH EQUIPMENT GROUND TERMINAL BUS			
POS. NO.	BREAKER FRAME-TRIP-POLE	PROTECTS FEEDER TO	CIRCUIT BREAKER GENERAL ELECTRIC CO OR APPROVED EQUAL
1	----	METERING SECTION	TJK4
2	800/800/3P	MAIN CIRCUIT BREAKER	THED
3	----	INCOMING FEEDER SECTION	THED
4	400/350/3P	AIR HANDLING UNIT - AHU-1	THED
5	100/70/3P	POWER PANEL PP1	THED
6	100/80/3P	POWER PANEL PP2	THED
7	225/150/3P	RECEPTACLE PANEL RP1	THED
8	100/100/3P	LIGHTING PANEL LP1	THED
9	100/100/3P	LIGHTING PANEL LP2	THED
10	225/150/3P	SPARE	THFK
11	100/50/3P	SPARE	THFK
12	100/50/3P	SPARE	THFK
13	400/--/3P	SPACE & BUS	THFK
14	225/--/3P	SPACE & BUS	THFK
15	100/--/3P	SPACE & BUS	THFK



FRONT ELEVATION OF NEW SECONDARY SWITCHBOARD

- SWITCHBOARD NOTES**
- 1 - NEUTRAL AND GROUND BUS SHALL BE RUN THE ENTIRE LENGTH OF CUBICLE
  - 2 - ALL CONCRETE PADS SHALL BE PAINTED PRIOR TO INSTALLATION OF SWITCHBOARD

- SWITCHBOARD LEGEND**
- VM - VOLTMETER
  - VS - VOLTMETER SELECTOR SWITCH

SCHEDULE OF NORMAL LIGHTING PANELS									
120/208-VOLT 3-PHASE 4-WIRE WITH EQUIPMENT GROUND TERMINAL BUS - DOOR-IN-DOOR TRIM									
PANEL DESIG.	TYPE (MOUNTED)	LOCATION	NO. & CAPACITY OF CIRCUIT BREAKERS				CIRCUIT BREAKER GENERAL ELECTRIC CO OR APPROVED EQUAL	MAIN CIRCUIT BREAKER GENERAL ELECTRIC CO OR APPROVED EQUAL	REMARKS
			20A-1P	20A-2P	50A-2P	OTHERS			
LP1	SURFACE	UTILITY ROOM	38	2	--	--	THQB	--	--
LP2	SURFACE	MECHANICAL ROOM	28	--	--	6-1P SPACES	THQB	--	--
RP1	SURFACE	UTILITY ROOM	29	--	--	5-1P SPACES	THQB	--	--

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THE STATE OF NEW HAMPSHIRE  
NORMAN W. MURPHY  
No. 2710  
PROFESSIONAL ENGINEER

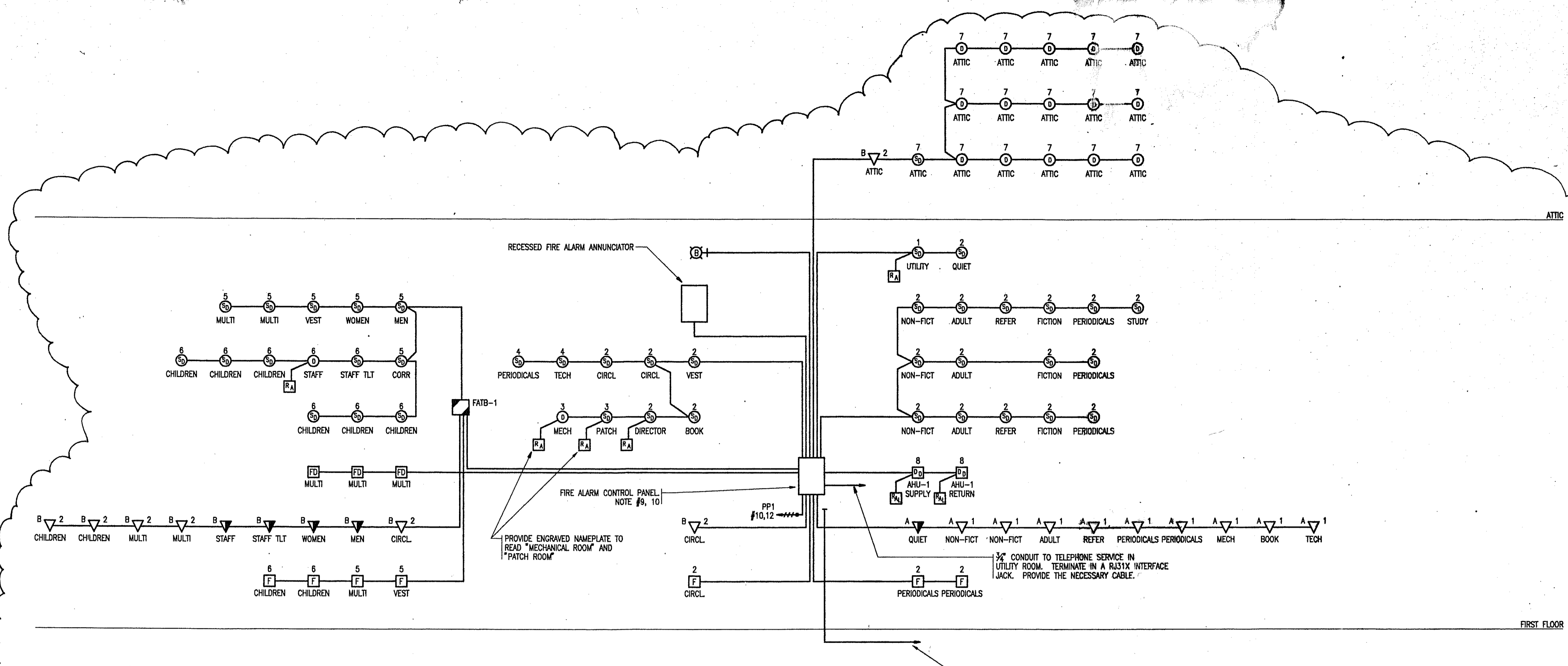
DENNIS MILES, P.A.  
THE ARCHITECTS  
687 UNION STREET  
Manchester, New Hampshire  
Tel: 603-625-4948 Fax: 603-625-1087

POWER RISER DIAGRAM AND SCHEDULES

Scale: NONE  
Date: 7-25-98

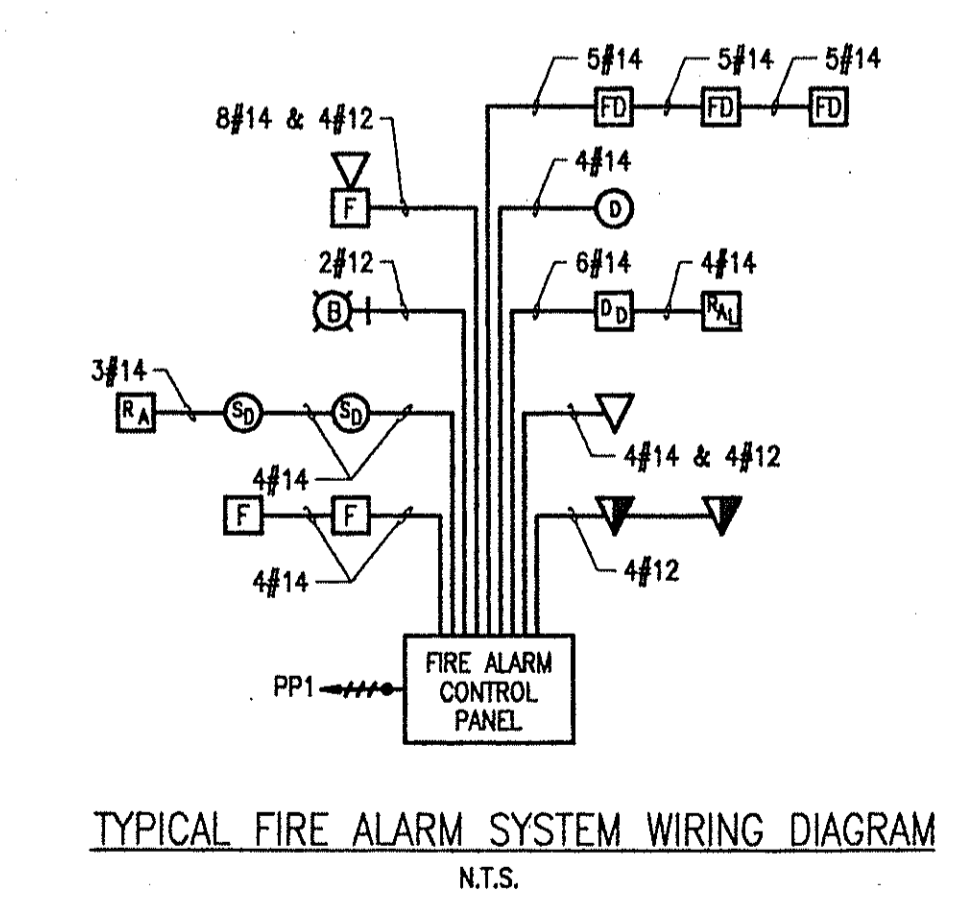
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E-5



FIRE ALARM SYSTEM RISER DIAGRAM  
N.T.S.  
3" CONDUIT TO STREET VIA CONCRETE ENCASED DUCTLINE. REFER TO SITE PLAN.

SCHEDULE OF HORN/STROBE CIRCUITS				
HORN CIRCUIT	NUMBER OF HORNS	STROBE LIGHT CIRCUITS	NUMBER OF STROBE LIGHTS	LOCATION
1	9	A	10	FIRST FLOOR
2	7	B	11	FIRST FLOOR AND ATTIC



TYPICAL FIRE ALARM SYSTEM WIRING DIAGRAM  
N.T.S.

FIRE ALARM ANNUNCIATOR SCHEDULE	
ZONE NO.	NAMEPLATE DESCRIPTION
1	UTILITY ROOM - DETECTOR
2	MAIN STACK AREA AND CIRCULATION DESK AREA - DETECTORS AND PULL STATIONS
3	MECHANICAL ROOM AND PATCH ROOM - DETECTORS AND PULL STATIONS
4	TECHNICAL SERVICES - DETECTORS
5	MULTI-PURPOSE ROOM, VESTIBULE, TOILETS - DETECTORS AND PULL STATIONS
6	CHILDREN'S ROOM, STAFF ROOM AND TOILET - DETECTORS AND PULL STATIONS
7	ATTIC SPACE - HEAT DETECTORS
8	AIR HANDLING UNIT AHU-1 - DUCT SMOKE DETECTORS SUPPLY AND RETURN
9	AUXILIARY MODULE
10	SPARE
11	SPARE
12	SPARE

- FIRE ALARM RISER GENERAL NOTES
- 1 - FIRE ALARM SYSTEM SHALL BE CLASS "A".
  - 2 - ALL FIRE ALARM SYSTEM WIRING SHALL BE #14 AWG TYPE THHN/THWN. ALL WIRING FOR STROBE LIGHT UNITS SHALL BE #12 AWG.
  - 3 - ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING WITH A MINIMUM SIZE OF 3/4".
  - 4 - FIRE ALARM TERMINAL BOXES SHALL BE PROVIDED WITH THE REQUIRED NUMBER OF TERMINAL BLOCKS. ALL CIRCUITS SHALL BE TAGGED AND IDENTIFIED. SPARE WIRES SHALL BE PROPERLY TERMINATED AND TAGGED. TERMINAL BOX SHALL BE PAINTED RED WITH HINGED LOCKED DOOR.
  - 5 - FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WIRING DIAGRAMS, SHOP DRAWINGS AND RECOMMENDATIONS. THE FIRE ALARM SYSTEM SHALL MEET THE REQUIREMENTS OF THE WINDHAM FIRE DEPARTMENT.
  - 6 - COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL FIRE ALARM DEVICES WITH THE ARCHITECT.
  - 7 - COORDINATE THE EXACT NAMEPLATE DESCRIPTION WITH THE OWNER FOR THE FIRE ALARM ANNUNCIATOR.
  - 8 - FURNISH, INSTALL AND WIRE A REMOTE ALARM AND TEST SWITCH FOR EACH DUCT DETECTOR. REMOTE ALARMS LOCATED IN MECHANICAL ROOM. WIRING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  - 9 - FURNISH AND INSTALL IN THE FIRE ALARM CONTROL PANEL THE NECESSARY CONTACTS AND AUXILIARY RELAYS FOR CONTROLLING THE FIRE DOORS IN THE MULTI-PURPOSE ROOM.
  - 10 - FURNISH AND INSTALL THE NECESSARY RELAY CARDS TO CONTROL THE DUCT DETECTORS.

LIBRARY  
NEWELL  
11 AND NORTH LOWER ROAD, WINDHAM N.H.

THOMPSON ENGINEERING COMPANY, INC.  
ELECTRICAL ENGINEERS  
160 NORTH WASHINGTON STREET  
BOSTON, MASSACHUSETTS 02114  
TEL: (617) 227-8818  
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THE STATE OF NEW HAMPSHIRE  
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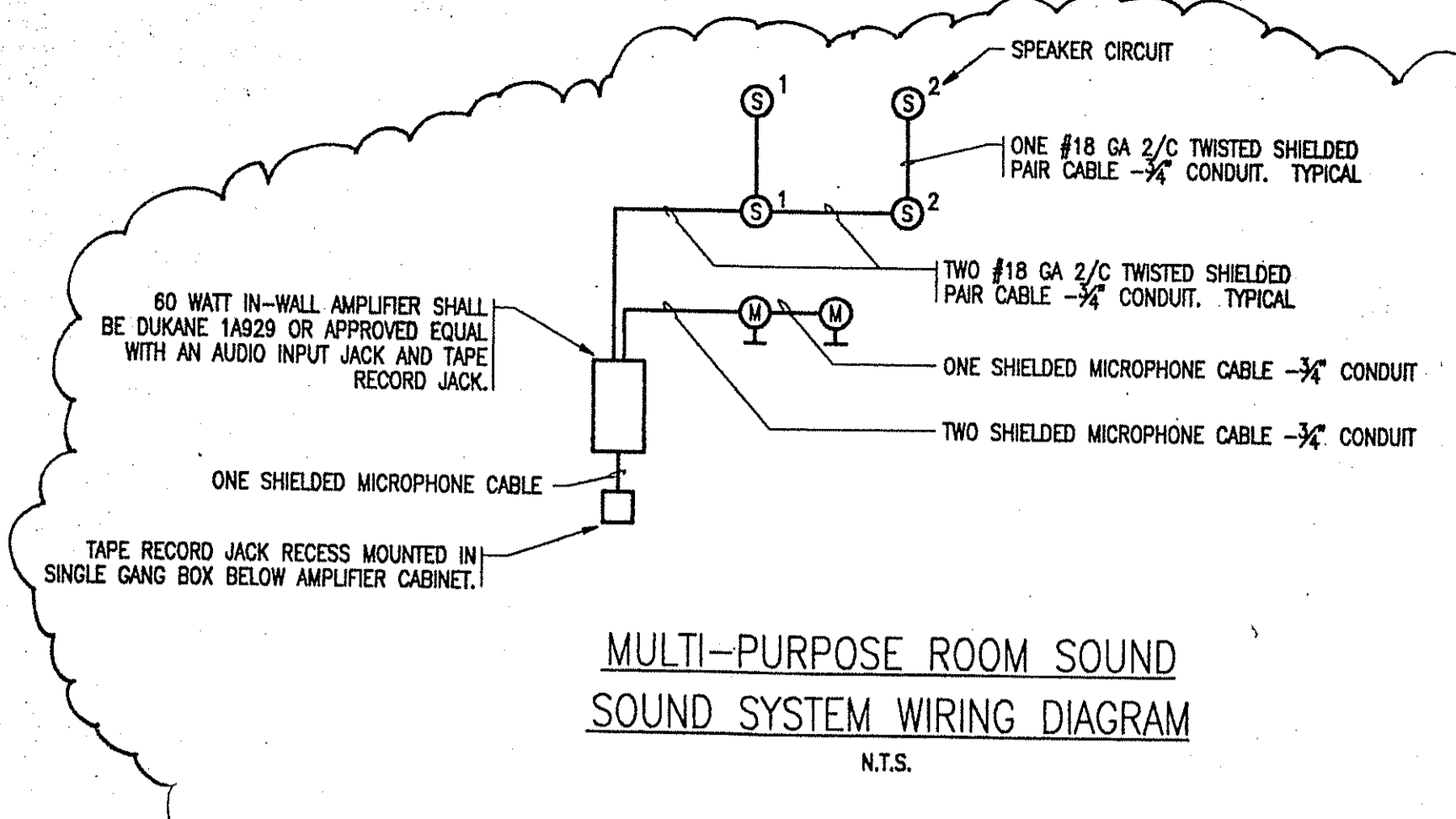
REVISION  
10.9.96

FIRE ALARM RISER DIAGRAM

Scale: NONE  
Date: 7-25-96

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E-6

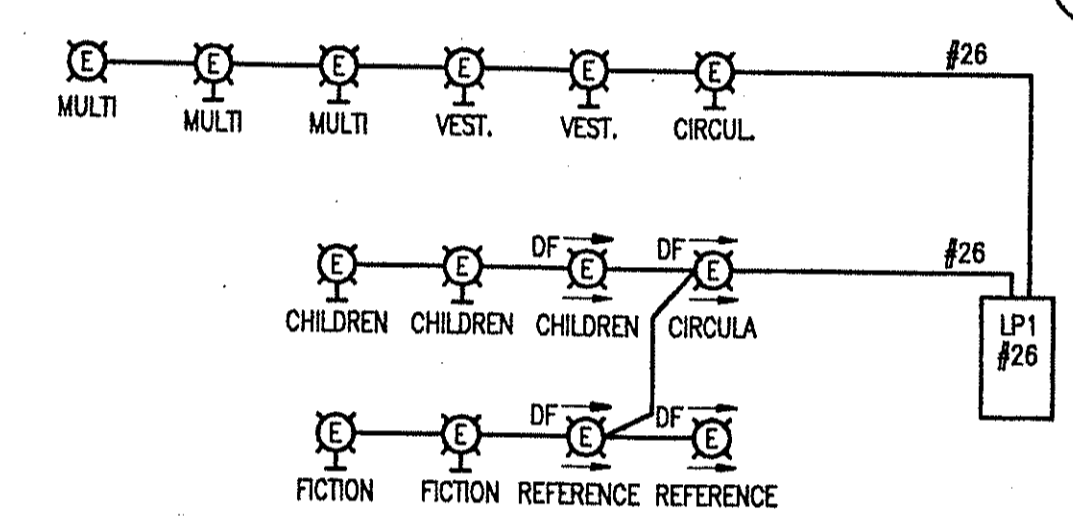
NOT IN CONTRACT



**MULTI-PURPOSE ROOM SOUND SYSTEM WIRING DIAGRAM**  
N.T.S.

**SOUND SYSTEM NOTES**

- ALL MICROPHONE CONNECTORS AND RECEPTACLES SHALL BE OF THE "XLR" TYPE.
- ALL MICROPHONE AND SPEAKER CABLES SHALL BE WEST PENN 291 OR APPROVED UNLESS OTHERWISE NOTED.
- FOR THE MULTI-PURPOSE SOUND SYSTEMS FURNISH THE FOLLOWING MICROPHONE AND ACCESSORIES:
  - A - TWO (2) AKG ACOUSTICS D-190ES OR APPROVED EQUAL HAND HELD OR STAND MOUNTED MICROPHONE
  - B - EACH MICROPHONE SHALL BE FURNISHED WITH A TWENTY-FIVE (25) FOOT EXTENSION CORDS.
  - C - ONE (1) ATLAS MS-12C OR APPROVED EQUAL ADJUSTABLE HEIGHT FLOOR STANDS.
  - D - ONE (1) ATLAS DS-14 OR APPROVED EQUAL DESK STANDS.



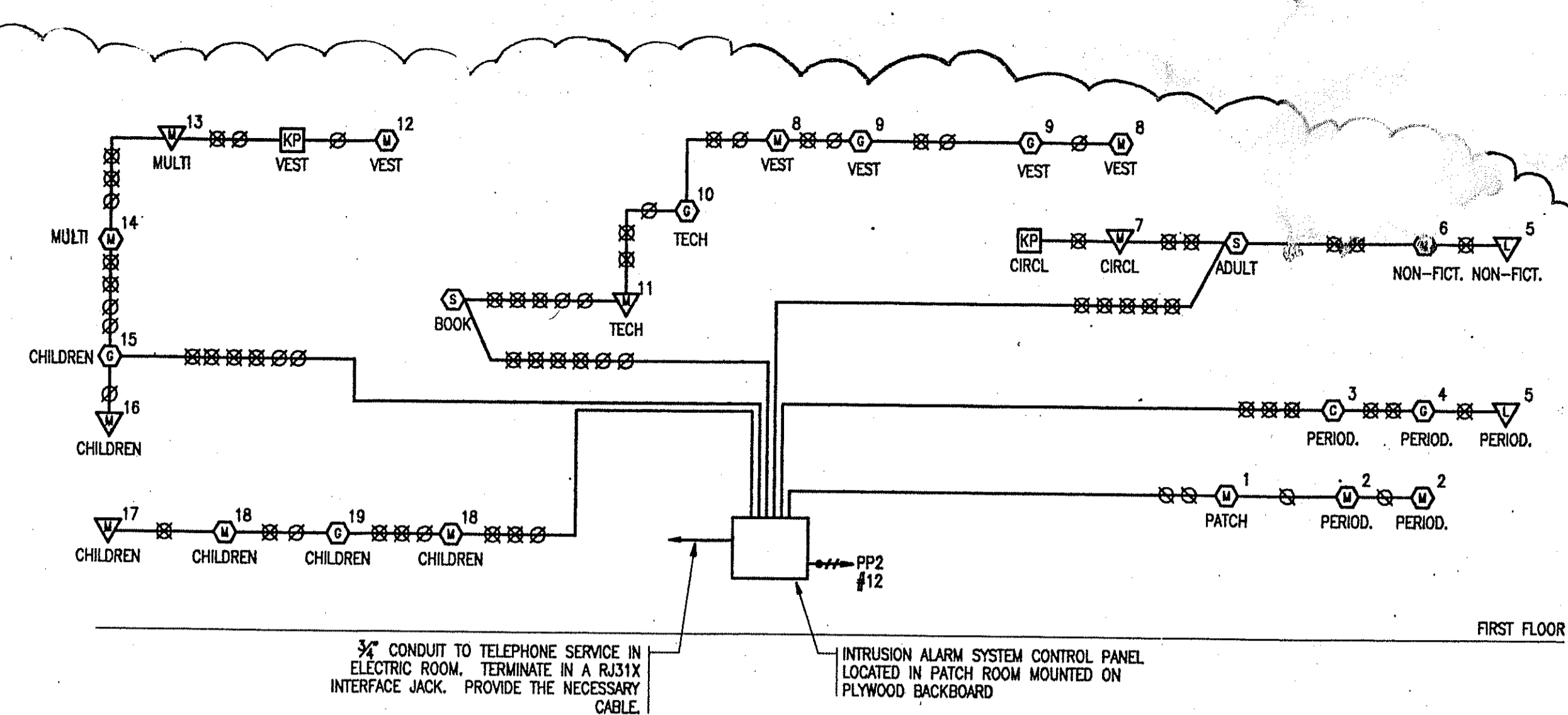
**EXIT LIGHT RISER DIAGRAM**  
N.T.S.

**EXIT LIGHT RISER NOTES**

- ALL WIRE SHALL BE 2#12 TYPE MC CABLE UNLESS OTHERWISE NOTED.

**LIGHTING SENSOR SYSTEM NOTES**

- ALL SENSOR WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WIRING DIAGRAMS AND RECOMMENDATIONS.
- REFER TO THE LIGHTING FLOOR PLANS FOR THE EXACT TYPE OF LIGHTING SENSOR TO BE INSTALLED IN EACH ROOM.
- THE ULTRASONIC OCCUPANCY SENSORS SHALL DETECT THE PRESENCE OF A PERSON BY DETECTING DOPPLER SHIFTS IN TRANSMITTED ULTRASOUND. THE ULTRASONIC FREQUENCY SHALL BE 25 KHZ AND THE CIRCUIT SHALL BE SOLID STATE CRYSTAL CONTROLLED WITH ADVANCED SIGNAL PROCESSING. SENSORS OF VARYING FREQUENCIES WILL NOT BE ALLOWED. EACH SENSOR SHALL BE FURNISHED WITH A SHUNT TRIP PROVISION TO ALLOW A CUSTODIAN TO BY-PASS THE SENSOR IN THE EVENT OF FAILURE. SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF FIFTEEN (15) SECONDS TO FIFTEEN (15) MINUTES. SENSITIVITY ADJUSTMENTS AND A FIELD VIEW OF 360 DEGREES. ULTRASONIC OCCUPANCY SENSORS SHALL BE OF CEILING MOUNTED TYPE. ULTRASONIC OCCUPANCY SENSORS SHALL BE FULLY RATED AT 20-AMPERES AND CAPABLE OF CONTROLLING EXHAUST FAN MOTORS. ULTRASONIC SENSORS SHALL BE WATTSTOPPER #500-A OR APPROVED EQUAL.
- PASSIVE INFRARED OCCUPANCY SENSORS SHALL DETECT THE PRESENCE OF A PERSON BY DETECTING CHANGES IN THE INFRARED ENERGY. SENSORS SHALL BE 25 KHZ AND THE CIRCUITING SHALL BE SOLID STATE CRYSTAL CONTROLLED WITH ADVANCED SIGNAL PROCESSING. SENSORS OF VARYING FREQUENCIES WILL NOT BE ALLOWED. EACH SENSOR SHALL BE FURNISHED WITH A SHUNT TRIP PROVISION TO ALLOW A CUSTODIAN TO BY-PASS THE SENSOR IN THE EVENT OF FAILURE. SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF FIFTEEN (15) SECONDS TO THIRTY (30) MINUTES. SENSITIVITY ADJUSTMENTS AND A FIELD VIEW OF 180 DEGREES. ULTRASONIC OCCUPANCY SENSORS SHALL BE CAPABLE OF CEILING MOUNTING AND WALL MOUNTING. SENSORS SHALL BE FURNISHED WITH CEILING AND WALL SWIVEL BRACKETS TO FIELD ADJUST SENSORS. INFRARED SENSORS SHALL BE WATT STOPPER C1-100 OR APPROVED EQUAL.
- LIGHTING SENSOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR INSTALLATION AND MOUNTING HEIGHTS.
- FRESNEL LENS SHALL BE POLY IR-4 RATED MATERIAL AND SHALL HAVE A DAYLIGHT FILTER TO ENSURE THAT THE SENSOR IS NOT AFFECTED BY SHORT-WAVE-LENGTH INFRARED WAVES SUCH AS SUN LIGHT.
- REFER TO MANUFACTURER'S SPECIFICATION SHEETS AND WIRING DIAGRAMS FOR THE MAXIMUM NUMBER OF SENSOR PER POWER PACK.
- POWER PACKS AND SLAVE PACKS SHALL BE INSTALLED ON THE OUTSIDE OF JUNCTION BOXES. JUNCTION BOXES SHALL BE MOUNTED ABOVE DROPPED CEILING AREA DIRECTLY ABOVE THE LIGHTING SWITCH LOCATION.
- ALL LIGHTING SENSOR TIME DELAYS SHALL BE SET TO FIFTEEN (15) MINUTES UNLESS OTHERWISE NOTED.
- POWER PACKS SHALL BE WATTSTOPPER A120-E OR APPROVED EQUAL AND SLAVE PACKS SHALL BE WATTSTOPPER S-120 OR APPROVED EQUAL.
- ALL LIGHTING FUTURE SENSOR UNITS, POWER AND SLAVE PACKS SHALL BE AS MANUFACTURED BY THE WATT STOPPER CORP. OR APPROVED EQUAL.
- ALL LIGHTING CIRCUIT WIRING INCLUDING SENSOR CONTROL WIRING SHALL BE INSTALLED IN METAL CLAD TYPE MC CABLE.



**INTRUSION ALARM SYSTEM RISER DIAGRAM**  
N.T.S.

**INTRUSION ALARM CONDUIT & WIRE SCHEDULE**

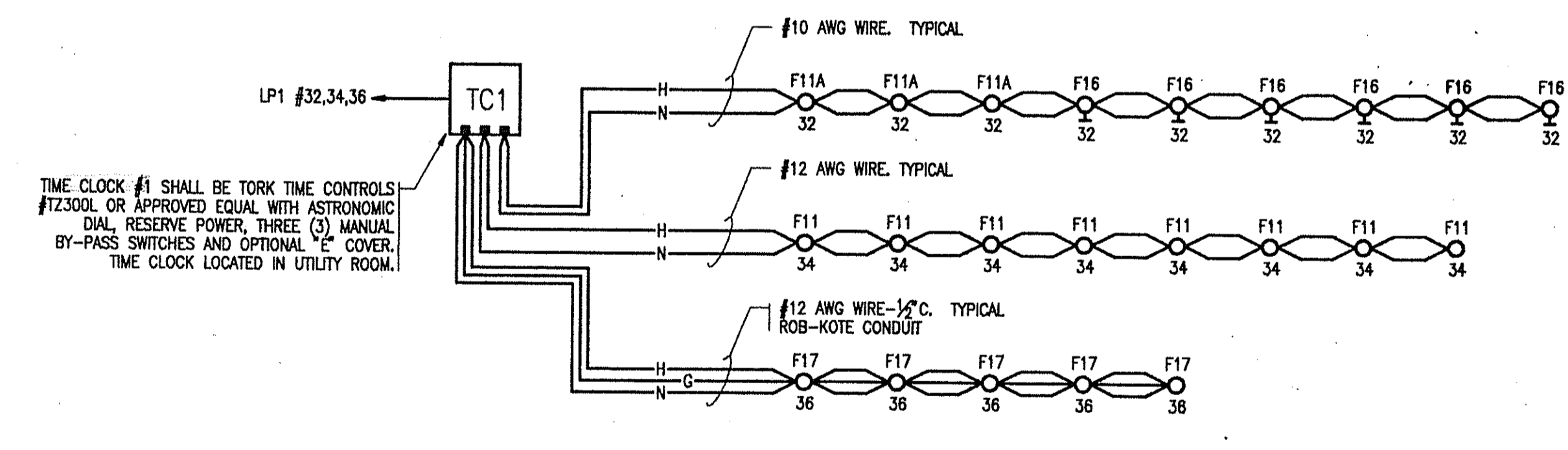
TAG	DESCRIPTION
☐	ONE-18/2 GAUGE, TWISTED, SHIELDED, COPPER (1-PAIR) FOR MAGNETIC DOOR CONTACT AND SIREN CIRCUITS.
☒	ONE-18/4 GAUGE, TWISTED, SHIELDED, COPPER (2-PAIR) FOR MOTION DETECTOR AND KEY PAD CIRCUITS

**INTRUSION ALARM SYSTEM ZONES**

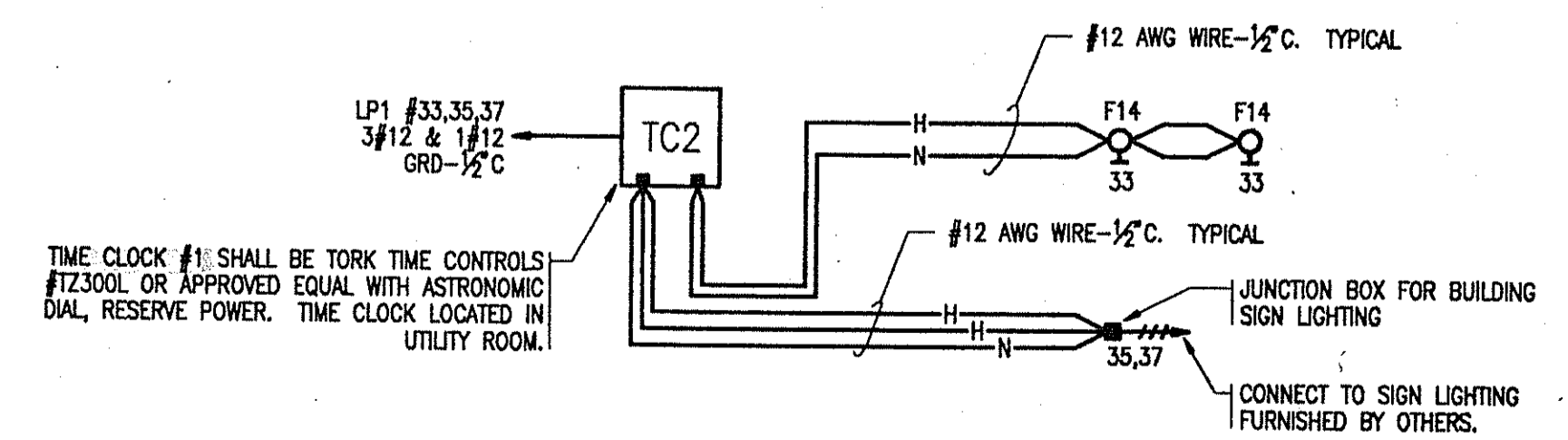
ZONE	DESCRIPTION
1	BUILDING PERIMETER DOORS
2	MOTION DETECTORS
3	GLASS BREAK DETECTORS
4	MULTI PURPOSE ROOM

**INTRUSION ALARM SYSTEM NOTES**

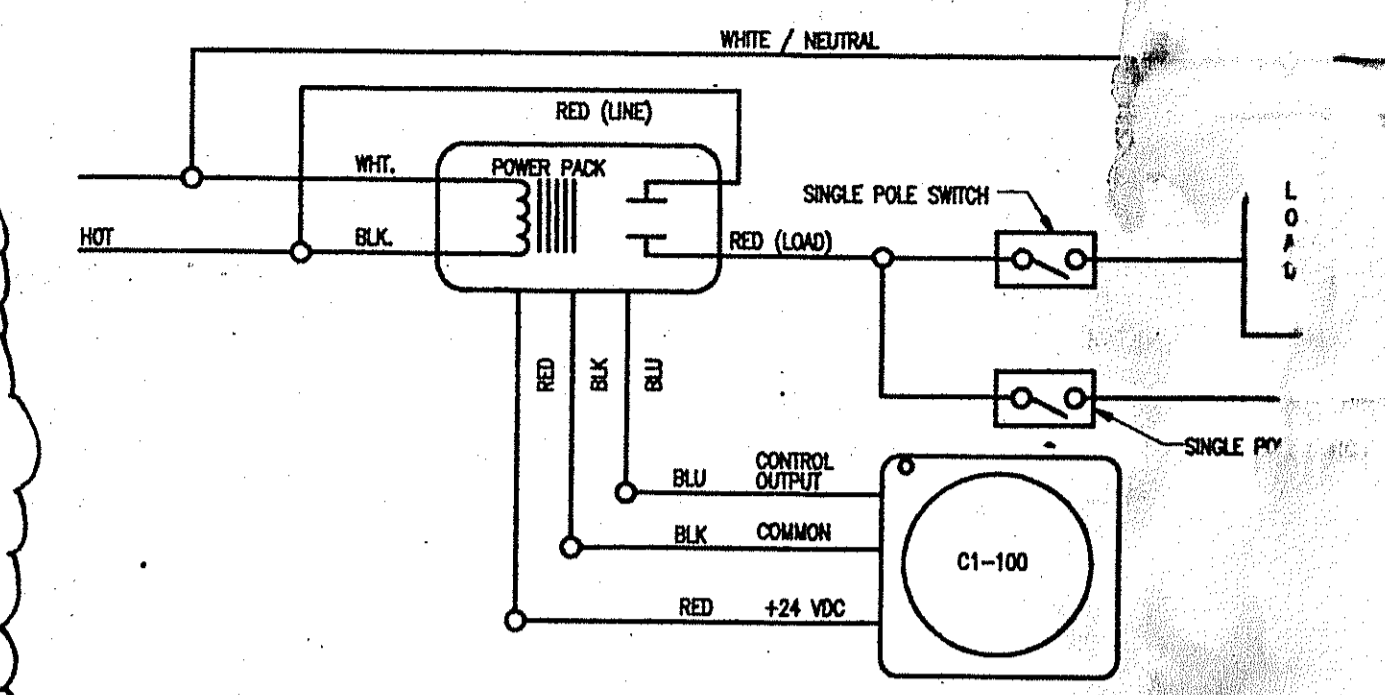
- ALL KEY PADS SHALL BE FURNISHED WITH CLEAR PLASTIC LOCKABLE COVERS.
- THE INTRUSION ALARM SYSTEM SHALL BE MODE PROGRAMMED WITH A "STAY" AND "AWAY" MODE. ALL EXTERIOR PERIMETER DOORS SHALL BE PROGRAMMED INTO A "STAY" MODE AND THE ENTIRE SYSTEM SHALL BE PROGRAMMED INTO AN "AWAY" MODE. GLASS BREAK DETECTORS SHALL BE WIRED SO THAT THEY MAYBE ENERGIZED 24 HOURS.
- THE EXACT NUMBER AND LOCATION OF THE DETECTION ZONES SHALL BE DETERMINED BY THE OWNER AND THE PROGRAMMING OF THESE ZONES SHALL BE DONE BY THE SYSTEM MANUFACTURER'S REPRESENTATIVE.
- ALL INTRUSION ALARM SYSTEM DEVICES SHALL BE MOUNTED ON A 4" SQUARE OUTLET BOX WITH A SINGLE GANG PLASTER RING. ALL CEILING OR WALL OUTLET BOXES SHALL BE PROPERLY SUPPORTED.
- ALL INTRUSION ALARM CABLES BEING INSTALLED ABOVE DROPPED CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH APPROVED TYPE SUPPORTS FROM THE BUILDING STRUCTURE. CABLES SUPPORTED FROM PIPES, DUCTS, OR OTHER CABLES WILL NOT BE ALLOWED. THE CABLE ROUTES SHALL BE SELECTED SO THAT THE CABLES ARE ADEQUATELY PROTECTED FROM PHYSICAL DAMAGE AND WILL NOT BE SUBJECTED TO MECHANICAL INJURY. ALL CABLES SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- MAGNETIC DOOR CONTACTS LOCATED IN VESTIBULE 29 SHALL BE FURNISHED WITH TWO SETS OF CONTACTS AND TIME DELAY FEATURES.



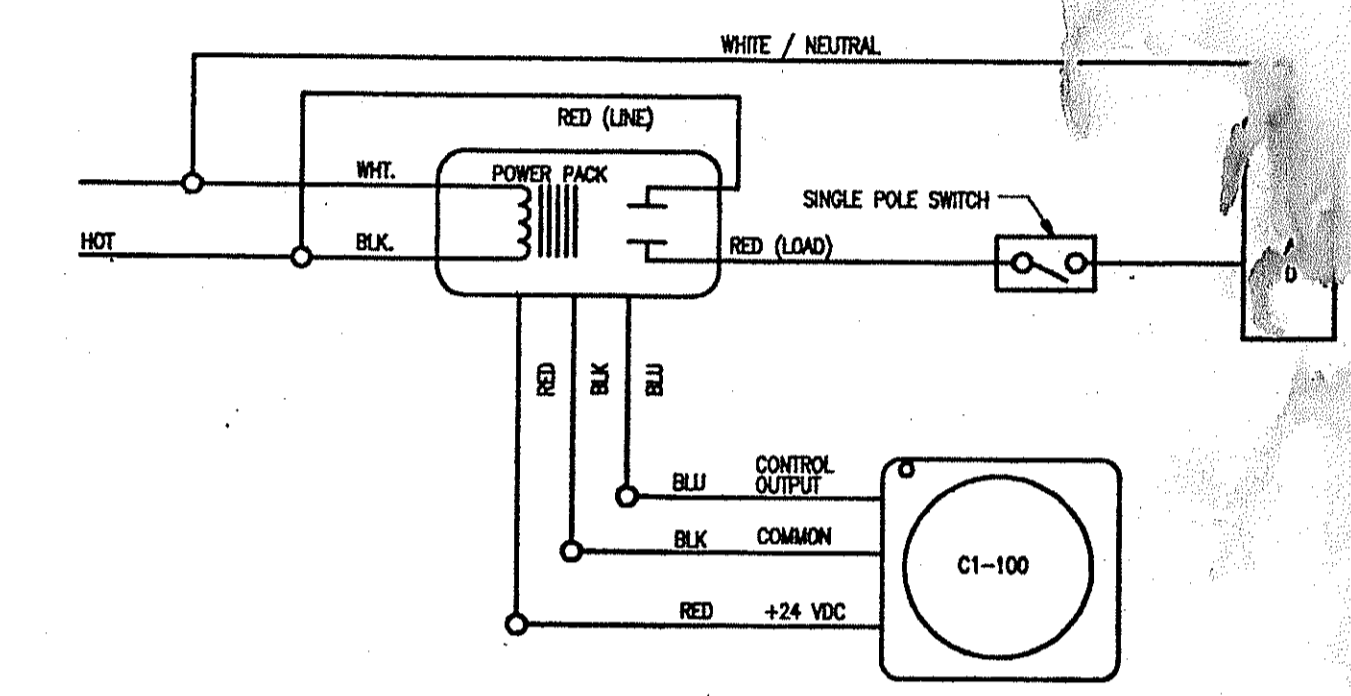
**WIRING DIAGRAM SHOWING METHOD OF CONTROLLING BUILDING EXTERIOR LIGHTING FIXTURES**  
N.T.S.



**WIRING DIAGRAM SHOWING METHOD OF CONTROLLING CUPOLA LIGHTING AND BUILDING SIGN LIGHTING**  
N.T.S.

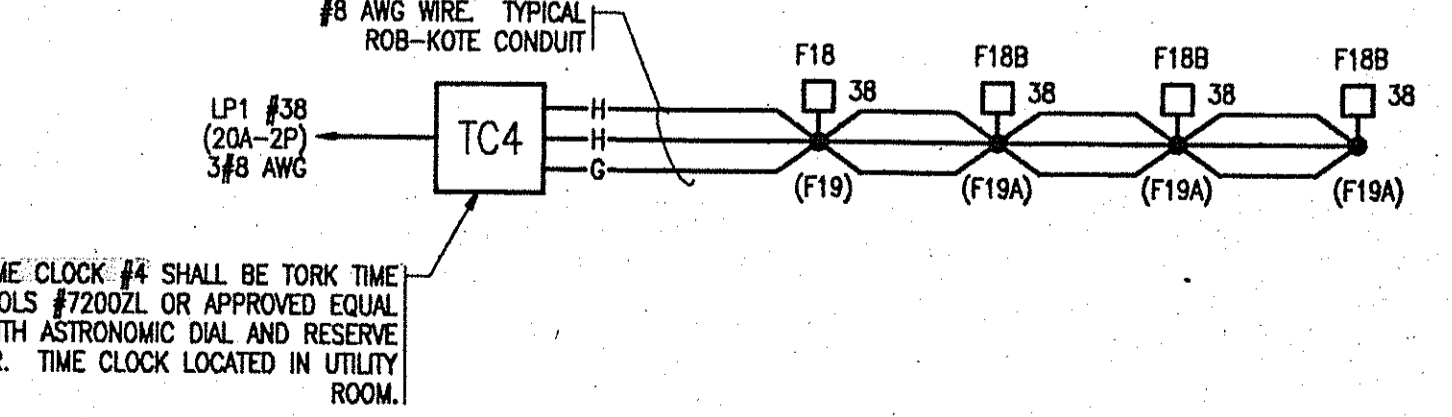
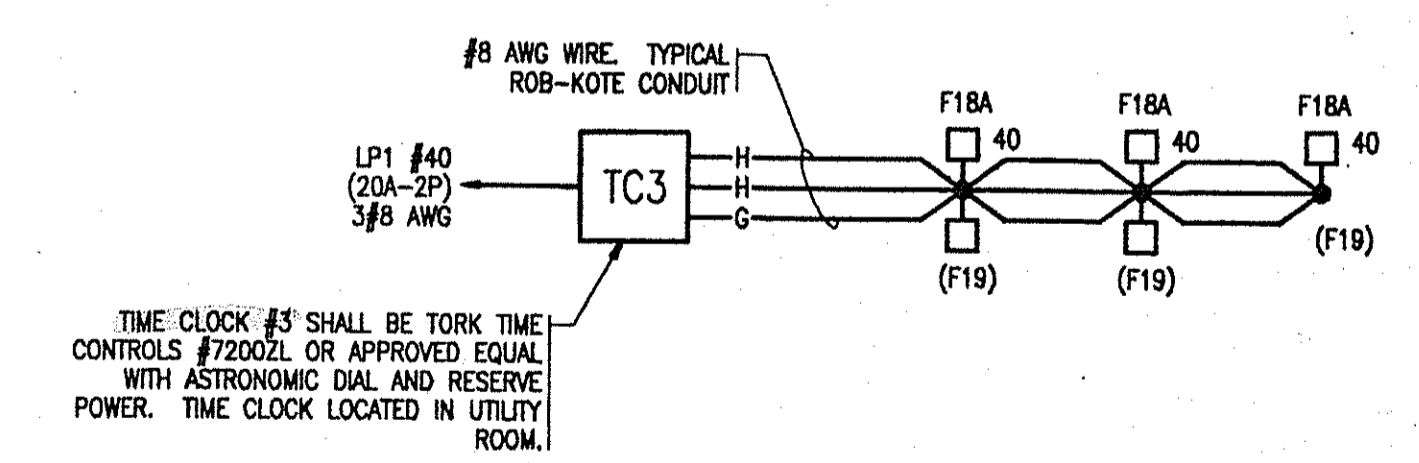


**TYPICAL WIRING DIAGRAM SHOWING METHOD FOR CONTROLLING LIGHTING WITH TWO SINGLE POLE SWITCHES**  
N.T.S.



**TYPICAL WIRING DIAGRAM SHOWING METHOD FOR CONTROLLING LIGHTING WITH ONE SINGLE POLE SWITCH**  
N.T.S.

NOT IN CONTRACT



**WIRING DIAGRAM SHOWING METHOD OF CONTROLLING PARKING AREA AND ROADWAY LIGHTING FIXTURES**  
N.T.S.

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REVISION 10.9.96

RISER DIAGRAMS AND WIRING DIAGRAMS

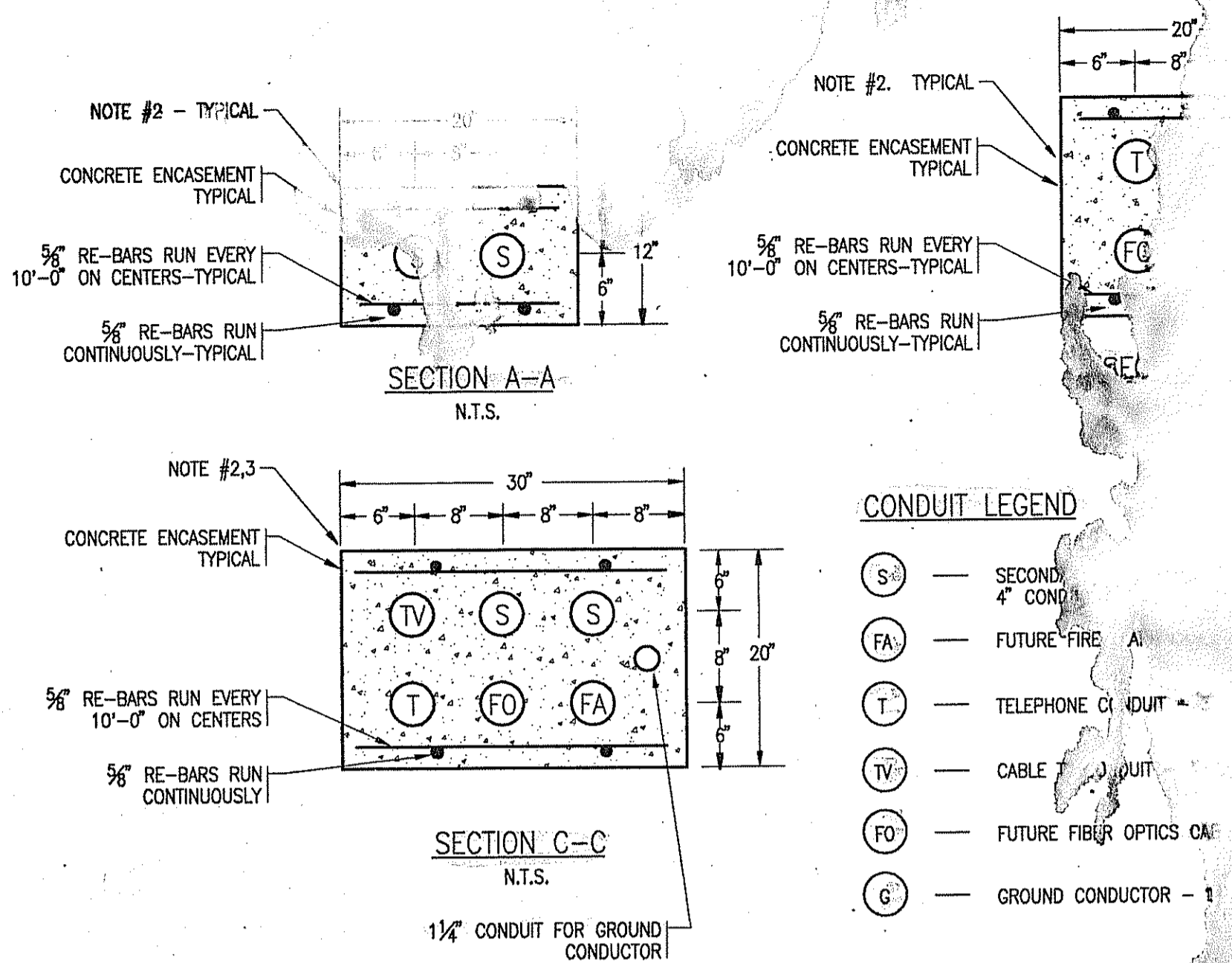
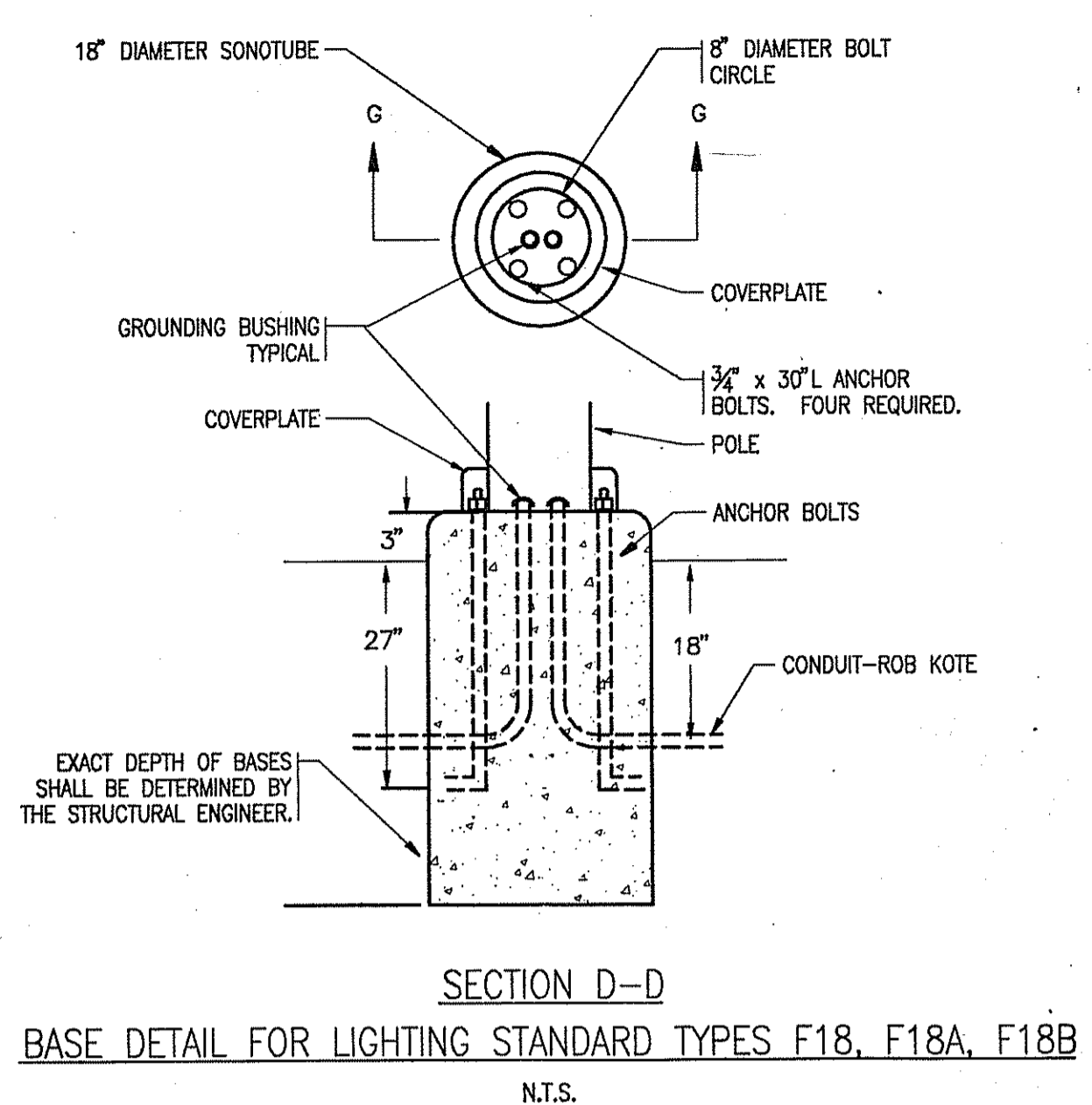
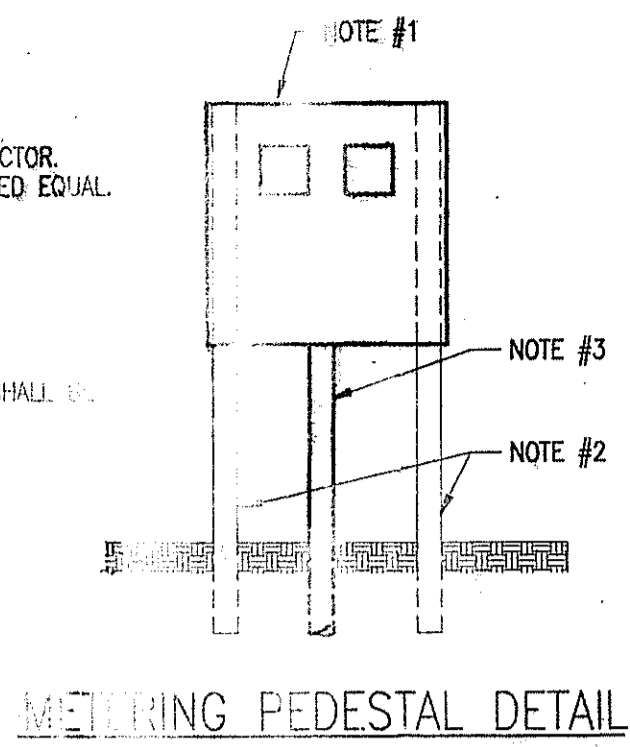
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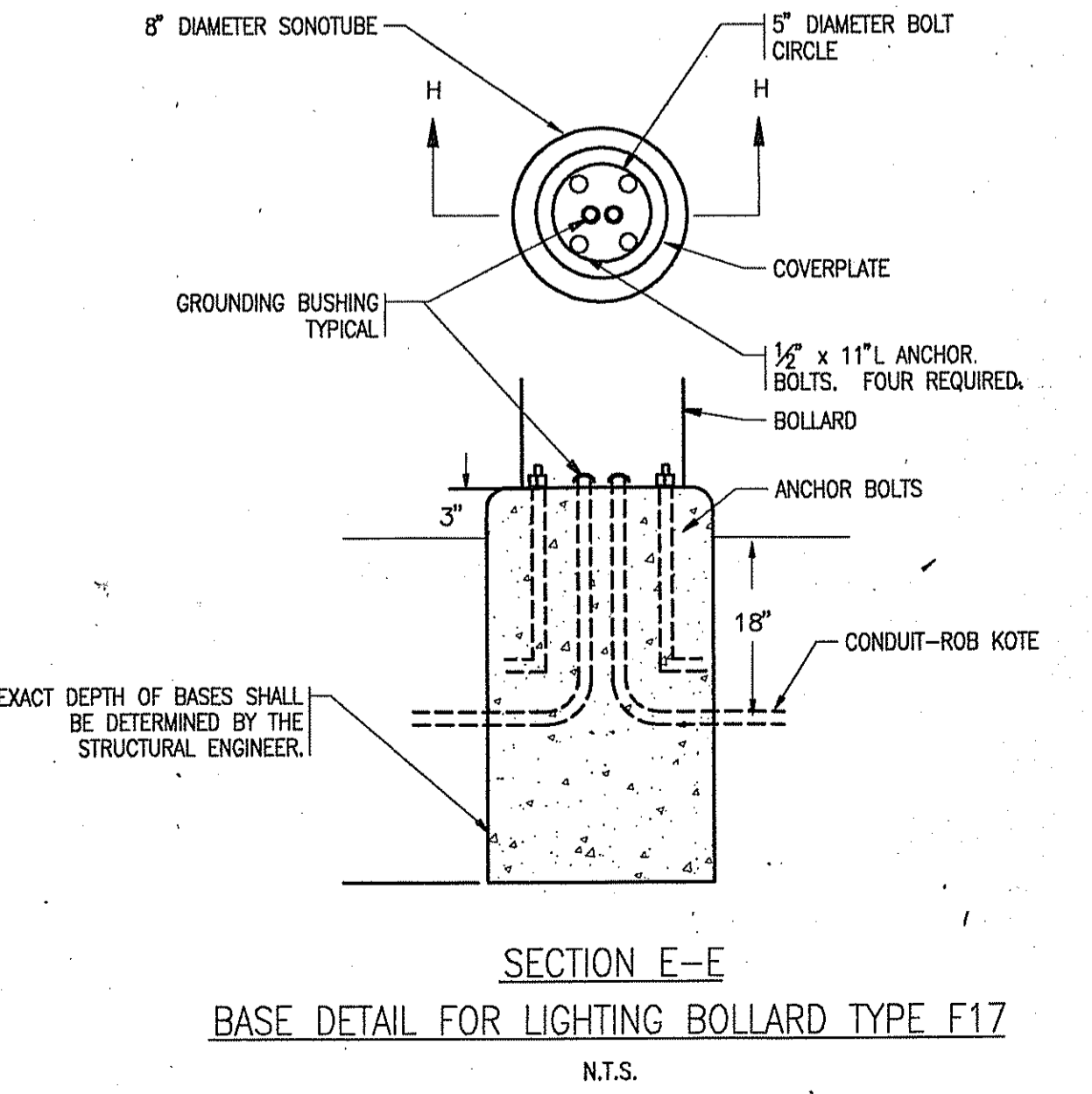
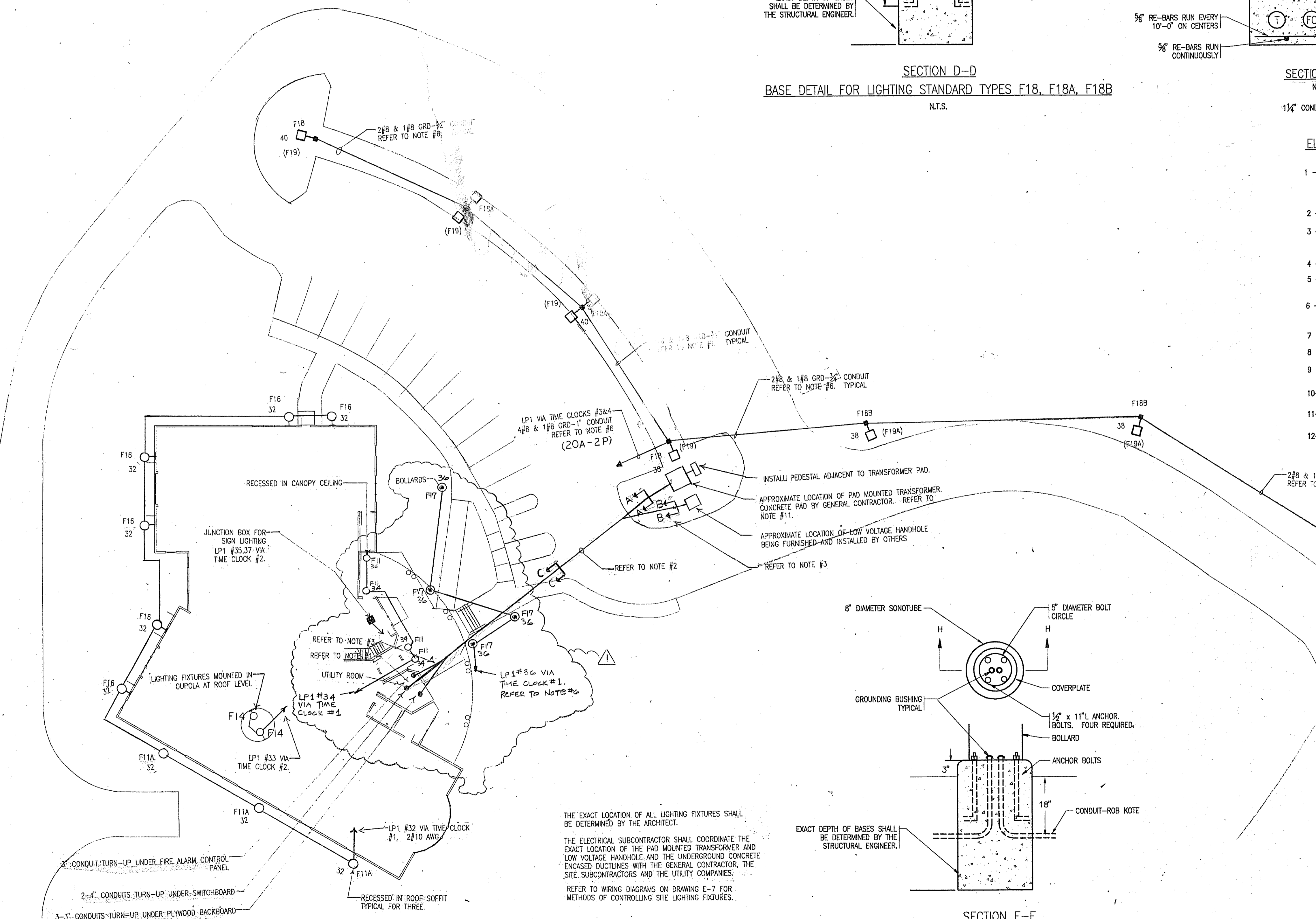
**METERING PEDESTAL NOTES**

- 1 - DOUBLE METER, METERING CABINET BY ELECTRICAL SUBCONTRACTOR. CABINET SHALL BE MILLBANK #S3390-FBDR-2X OR APPROVED EQUAL. (VERIFY WITH UTILITY COMPANY)
- 2 - 4" x 4" PRESSURE TREATED TIMBERS.
- 3 - 2" RIGID STEEL CONDUIT WITH PULL WIRE
- 4 - EXACT LOCATION AND INSTALLATION OF METERING EQUIPMENT SHALL BE IN ACCORDANCE WITH PUBLIC SERVICE COMPANY STANDARDS.



**ELECTRICAL SITE GENERAL NOTES**

- 1 - FURNISH AND INSTALL TYPE FSK THRU-FLOOR SEALS FOR ALL RIGID STEEL CONDUITS UP THRU FLOOR SLAB. (2-4" CONDUITS, 4-3" CONDUIT, AND 1-1/2" CONDUIT) REFER FOR EXACT NUMBER AND SIZE OF CONDUITS. PROVIDE SUFFICIENT BETWEEN FLOOR SEALS FLOOR SEALS SHALL BE MANUFACTURED BY OZ GEDNEY OR APPROVED EQUAL.
- 2 - ALL CONDUIT SHALL BE PVC SCHEDULE 40 ENCASED IN CONCRETE UNLESS OTHERWISE NOTED.
- 3 - 5'-0" FROM THE EXTERIOR OF THE BUILDING, AND TRANSFORMER PAD THE CONCRETE ENCASE PVC CONDUIT SHALL CHANGE TO CONCRETE ENCASED RIGID STEEL CONDUIT AS THE DUCTLINE ENTERS THE BUILDING AND TRANSFORMER PAD.
- 4 - PAD MOUNTED TRANSFORMER FURNISHED AND SET IN PLACE BY PUBLIC SERVICE COMPANY.
- 5 - SECONDARY FEEDERS FROM THE TRANSFORMER SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL SUBCONTRACTOR.
- 6 - ALL UNDERGROUND CONDUIT RACEWAYS FOR THE PARKING AREA, STREET AND BOLLARD LIGHTING FIXTURES SHALL BE ROBOY INDUSTRIES, ROB-KOTE, 20 MIL PVC COATED RIGID CONDUIT OR APPROVED EQUAL INCLUDING, ELBOWS AND COUPLINGS.
- 7 - ALL UNDERGROUND DUCTLINES SHALL BE A MINIMUM OF THIRTY INCHES BELOW GRADE.
- 8 - DUCTLINES SHALL MAINTAIN A PITCH OF 4" PER 100'-0" FOR DRAINAGE.
- 9 - DUCTLINES SHALL AVOID ALL TREES, CATCH BASINS, DRAINS, SEWERS AND UNDERGROUND CONSTRUCTION.
- 10 - ALL EMPTY CONDUITS TURNING UP TO UTILITY ROOM SHALL BE CAPPED AND GROUNDED (FIRE ALARM, FIBER OPTICS).
- 11 - THE ELECTRICAL SUBCONTRACTOR SHALL FURNISH AND INSTALL THE TRANSFORMER PAD GROUND RING IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUBLIC SERVICE COMPANY.
- 12 - THE TRANSFORMER PAD SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF PUBLIC SERVICE COMPANY.



THE EXACT LOCATION OF ALL LIGHTING FIXTURES SHALL BE DETERMINED BY THE ARCHITECT.

THE ELECTRICAL SUBCONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE PAD MOUNTED TRANSFORMER AND LOW VOLTAGE HANDHOLE AND THE UNDERGROUND CONCRETE ENCASED DUCTLINES WITH THE GENERAL CONTRACTOR, THE SITE SUBCONTRACTORS AND THE UTILITY COMPANIES.

REFER TO WIRING DIAGRAMS ON DRAWING E-7 FOR METHODS OF CONTROLLING SITE LIGHTING FIXTURES.

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**SITE PLAN AND DETAILS**

Scale: 1" = 20'-0"  
Date: 7-25-96

Proj. No.  
**E-9**

▲ - REVISED OCT. 29, 1996