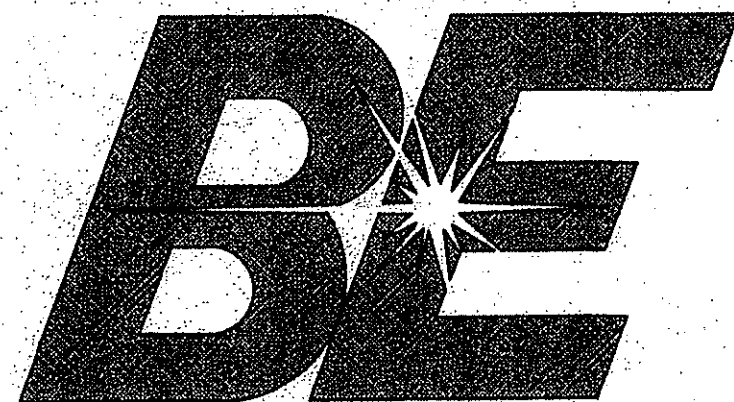




Battery Engineering, Inc.

Canton, Massachusetts

OFF JOHN ROAD

CUTLER ASSOCIATES, INC. ARCHITECTURE PLANNING CONSTRUCTION

Worcester, Massachusetts

Cutler
Design

100 West Street
P.O. Box 1000
Worcester, MA
01090-0100
508-753-1000
FAX 508-753-1001

STRUCTURAL ENGINEER:
JOHNSON & SEAMAN
ENGINEERING, INC.
4 FAITH AVENUE
AUBURN, MA 01501

CIVIL ENGINEERS:
H.W. MOORE
CONSULTING ENGINEERS
112 SHAWMUT AVENUE
BOSTON, MA 02118-2298

SITE DEVELOPER:
NORTHLAND DEVELOPMENT
CORPORATION
2150 WASHINGTON STREET
NEWTON, MA 02462

MECHANICAL ENGINEER:
SOUTH SHORE
ENGINEERING TEAM
720 WASHINGTON STREET
HANOVER, MA 02339

ELECTRICAL ENGINEER:
EDWIN P. MAHARD INC.
72 SHARPE STREET
HINGHAM, MA 02043

PLUMBING ENGINEER:
LVR CORPORATION
7 KIMBALL LANE, BLD. D
LYNFIELD, MA 01940

FIRE PROTECTION ENGINEER:
COGSWELL SPRINKLER
COMPANY, INC.
22 CANTERBURY STREET
WORCESTER, MA 01610

ARCHITECTURAL DRAWINGS - ISSUED FOR CONSTRUCTION - 10 OCTOBER 1996

GENERAL NOTES

BUILDING CODE SUMMARY
The Massachusetts State Building Code
1994 Edition 780, CMR
All work to be performed and installed in accordance
with governing local building codes and regulations.

LIST OF DRAWINGS

1 OF 8 COVER SHEET
2 OF 8 EXISTING CONDITIONS PLAN
3 OF 8 EXISTING CONDITIONS PLAN
4 OF 8 SITE PLAN
5 OF 8 SITE PLAN
6 OF 8 TYPICAL SECTIONS AND DETAILS

A2.01 FLOOR PLAN
A2.02 ROOF PLAN AND DETAILS
A3.01 EXTERIOR BUILDING ELEVATIONS
A3.02 EXTERIOR BUILDING SECTIONS AND DETAILS
A3.03 EXTERIOR BUILDING SECTIONS AND DETAILS
A4.01 ENLARGED PLANS AND TOILET ROOM ELEVATIONS
A4.02 REFLECTED CEILING PLAN
A4.03 WALL TYPES, DOOR FRAME DETAILS, DOOR & FRAME TYPES
A4.04 ROOM FINISH PLANS & INTERIOR DETAILS
A5.01 EQUIPMENT PLANS
A5.02 EQUIPMENT PLANS

F-1 FOUNDATION PLAN
S-1 ROOF FRAMING PLAN
S-2 CEILING SCHEDULE & STRUCTURAL DETAILS
S-3 STRUCTURAL DETAILS
H-1 HVAC PLAN
H-2 HVAC SCHEDULES AND DETAILS
E-1 SITE PLAN AND DETAILS
E-2 LIGHTING PLAN
E-3 RECEPTABLES, POWER AND LOW TENSION PLAN
E-4 PART PLANS
E-5 FIRE ALARM PLAN
E-6 DETAILS
P-1 GAS PIPING PLAN
P-2 PLUMBING PLAN
P-3 COMPRESSED AIR PLAN
P-4 COMPRESSED AIR PLAN
FP-1 FIRE PROTECTION PLAN

BATTERY ENGINEERING, INC.

SITE PLAN

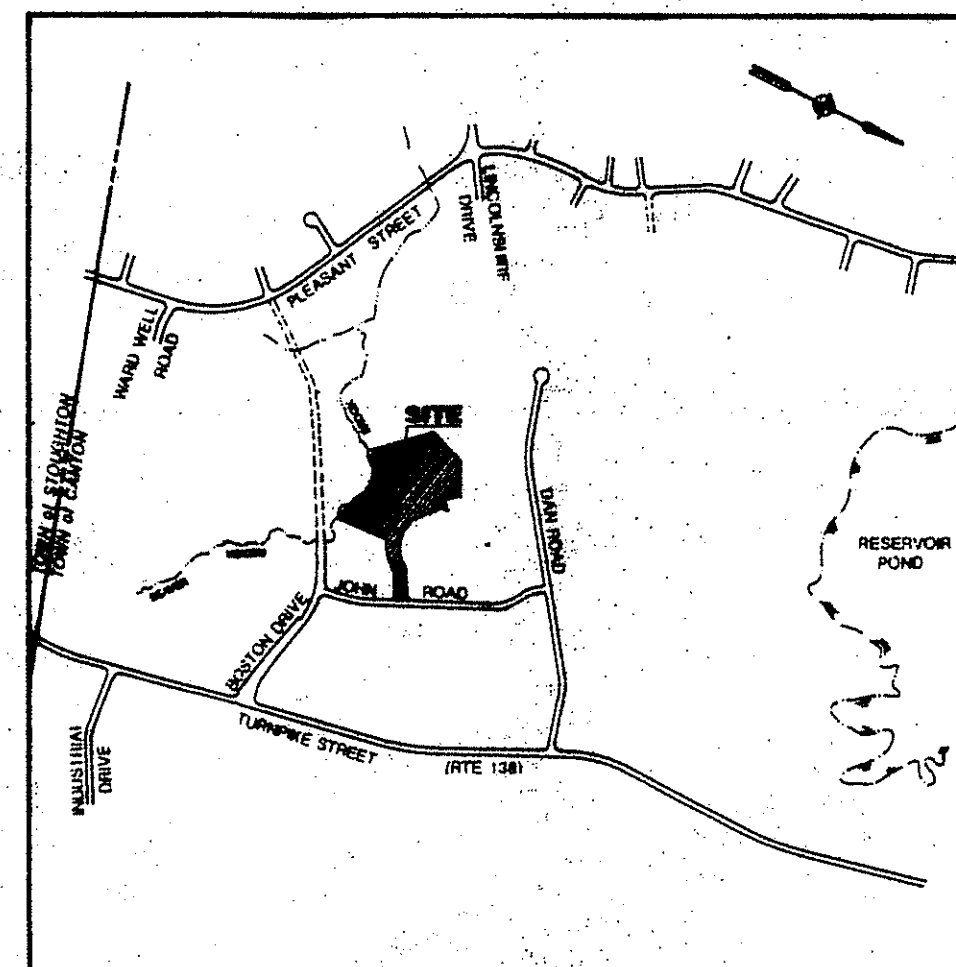
CANTON COMMERCE CENTER

CANTON, MA

ZONING SCHEDULE ZONE: LIMITED INDUSTRIAL

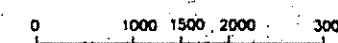
ITEM	PROPOSED	ZONING REQUIREMENTS
LOT AREA	855,800± S.F.	160,000 S.F.*
PCT. LOT COVERAGE	7.5%	40% MAX.
LOT FRONTAGE	111.27'	75 FT. MIN.
FRONT YARD SETBACK	1248.37 FT.	60 FT. MIN.
SIDE YARD SETBACK	225± FT.	35 FT. MIN.
REAR YARD SETBACK	165.71 FT.	35 FT. MIN.
BUILDING HEIGHT	1 STORY (20 FT.)	4 STORIES (40' MAX)
PARKING SPACES	260 PROVIDED	256 MIN.
LOADING DOCKS	3	3 MIN.
LANDSCAPED AREAS WITHIN PARKING LOTS	15±%	2% MIN.

*BASED UPON 40% LOT COVERAGE OF A 64,000 S.F. FOOTPRINT



LOCUS MAP

SCALE 1" = 1000'



GRAPHIC SCALE

INDEX OF DRAWINGS

SHEET NO.	TITLE
1	COVER SHEET
2-3	EXISTING CONDITIONS PLAN
4-5	SITE PLAN
6	TYPICAL SECTIONS & DETAILS

NOTES

- EXISTING TOPOGRAPHY IS FROM AERIAL PHOTOGRAMMETRY BY LOCKWOOD SUPPORT SERVICES, INC. OF ROCHESTER, N.Y. WITH GROUND CONTROL BY HARRY R. FELDMAN, INC. OF BOSTON, MA. AND FROM A PLAN ENTITLED "AS-BUILT PLAN JOHN ROAD" DATED DECEMBER 27, 1995 AS PREPARED BY HARRY R. FELDMAN, INC. OF BOSTON, MA.
- PROPOSED PROPERTY (LOT) LINE INFORMATION IS FROM A PLAN ENTITLED "PLAN OF LAND BEING A SUBDIVISION OF LOT 39 SHOWN ON LAND COURT PLAN NO. 37081N AND LOT 50 SHOWN ON LAND COURT PLAN NO. 37081R" CANTON, MASS. BY HARRY R. FELDMAN, INC. OF BOSTON, MA.
- THE BORDERING VEGETATED WETLAND (BVW) FLAGS SHOWN HEREIN WERE FLAGGED IN THE FIELD BY SANFORD ECOLOGICAL SERVICES, INC. OF SOUTHBOROUGH, MA. AND LOCATED BY FIELD SURVEY BY HARRY R. FELDMAN, INC. OF BOSTON, MA. IN MAY AND JULY OF 1996.
- ZONING CLASSIFICATION: LIMITED INDUSTRIAL ZONE
- BENCHMARK:
NORTHWEST CORNER OF EXISTING CONCRETE BOUND
STATION 18+49 RT. - JOHN ROAD.
ELEVATION = 169.95 (USGS)
- NO WORK SHALL BE PERFORMED WITHIN THE ALGONQUIN GAS CO. TRANSMISSION EASEMENT WITHOUT ALGONQUIN INSPECTION PERSONNEL PRESENT. INSPECTION PERSONNEL WILL BE MADE AVAILABLE WITHIN 72 HOURS NOTIFICATION TO THE DISTRICT SUPERINTENDENT AT (617-329-3750). SEE ADDITIONAL NOTATIONS AND REQUIREMENTS OF ALGONQUIN GAS TRANSMISSION CO.

ALGONQUIN GAS TRANSMISSION COMPANY (AGT) EASEMENT

- Any vehicular/equipment crossing of AGT's facilities shall not be allowed without prior approval from the AGT Area Superintendent. Temporary protection of the AGT facility may be required.
- Horizontal location of AGT facilities determined by ground field survey location of an AGT station on OCTOBER 10, 1996.
- Vertical location of AGT facilities at vehicular/equipment crossing (s) determined by ground field survey location of an AGT station on OCTOBER 10, 1996.
- No activity whatsoever may be performed on AGT's right-of-way, or near AGT's facilities without an AGT Inspector on the job. AGT Inspectors may be arranged for by contacting Mr. John Dwyer, Western Area Superintendent, (617)329-3750, at least 72 hours in advance of the work.

OWNER

SUMNER STREET STOUGHTON CORPORATION &
OAKDALE STREET CORP.
c/o STATE STREET BANK & TRUST CO.
225 FRANKLIN STREET
BOSTON, MA 02110

APPLICANT

BATTERY ENGINEERING, INC.
1636 HYDE PARK AVENUE
HYDE PARK, MA 02136

DEVELOPER

NORTHLAND DEVELOPMENT
2150 WASHINGTON STREET
NEWTON, MA 02459-0049

DESIGN-BUILDER

CUTLER ASSOCIATES, INC.
43 HARVARD STREET
P.O. BOX 15049
WORCESTER, MA 01615-0049

CIVIL ENGINEER

H. W. MOORE ASSOCIATES, INC.
112 SHAWMUT AVENUE
BOSTON, MA 02118

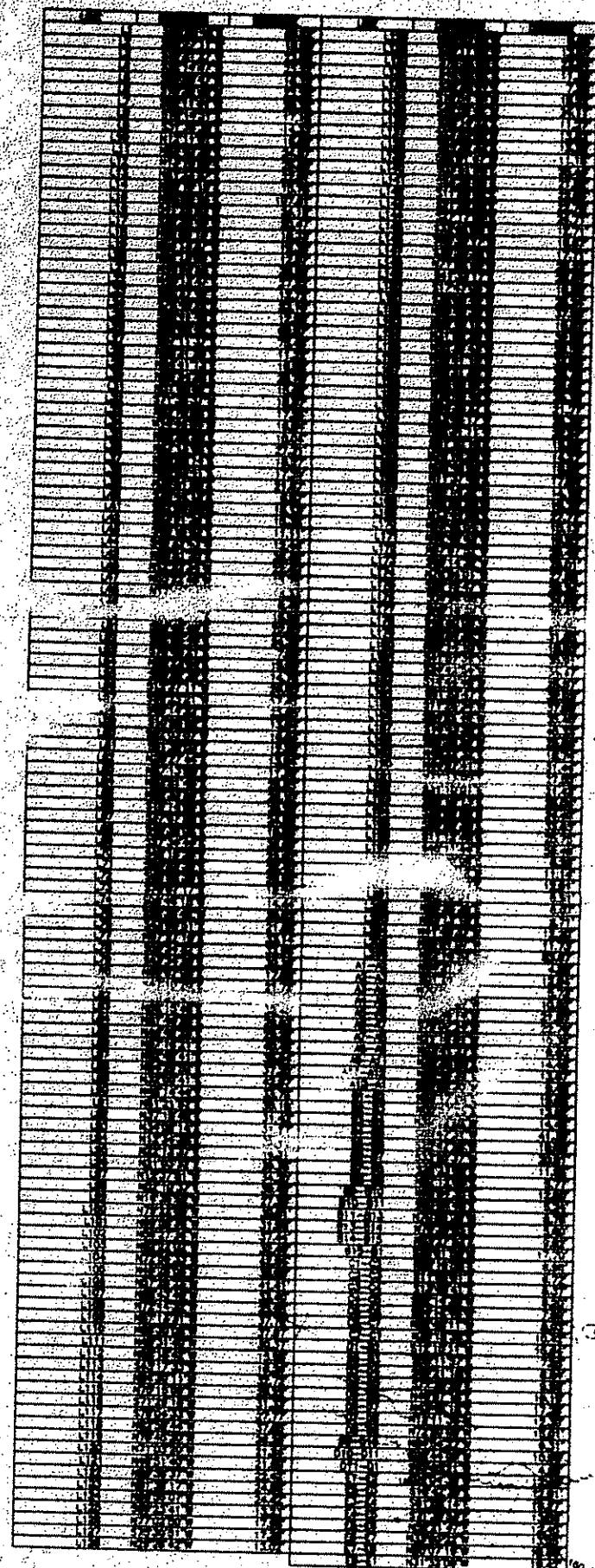


BATTERY ENGINEERING, INC.
CANTON, MA.

COVER SHEET

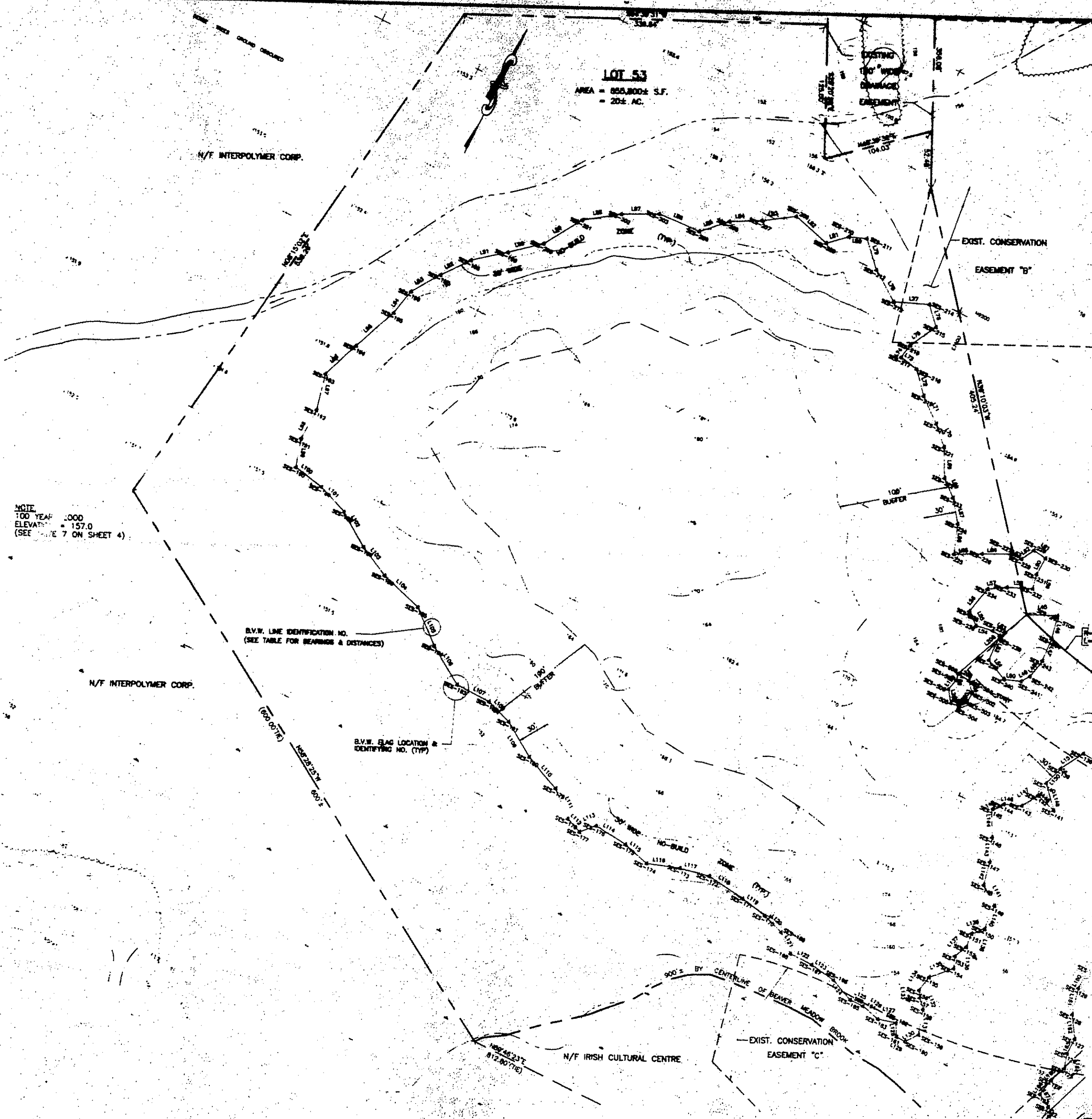
H.W. MOORE ASSOCIATES, INC.
ENGINEERS & PLANNERS
BOSTON, MASS.
DATE: 8-11-96
SCALE: AS SHOWN
SHEET 1 OF 6

NO.	DATE	DESCRIPTION	BY	CHKD.	APP.
1	10-10-96	REVISED TO SHEET 4 AS PER CANTON DPW ORDER APPROVED DATE	N.D.	FAK	HWM
2	8/22/96	ADDED ALGONQUIN GAS CO. NOTES	N.D.	FAK	HWM
3	8/28/96	GENERAL REVISIONS	M.P.H.	FAK	HWM
4	7/31/96	REVISIONS FOR CONSERVATION COMM.	N.D.	FAK	HWM
5	7/30/96	GENERAL REVISIONS	N.D.	FAK	HWM



- LEGEND:**
- ⊙ SEWER MANHOLE
 - ⊙ DRAIN MANHOLE
 - CATCH BASIN
 - HYDRANT
 - TOP OF TRAP
 - BT BIT BURN
 - FLARED END SECTION
 - OL & GAS SEPARATOR
 - INVERT ELEVATION
 - RW RIM ELEVATION
 - TW TOP OF WALL
 - BW BOTTOM OF WALL
 - BIT BITUMINOUS
 - CONC CONCRETE
 - SEWER
 - DRAIN
 - FORCED SEWER MAIN

NOTE: ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD)



SHEET 3

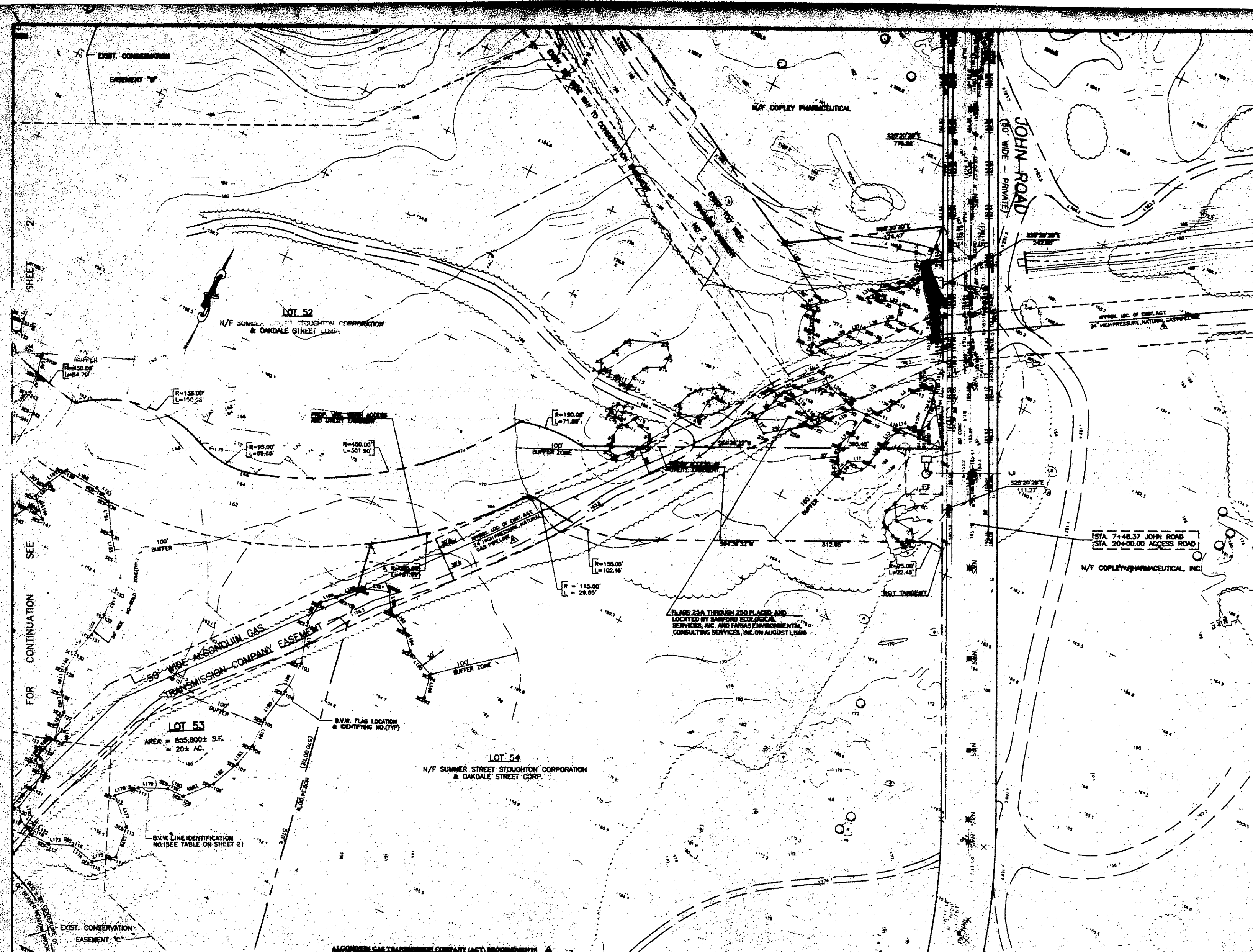
SEE FOR CONTINUATION

NOTE: SEE LEGEND ON SHEET 2 OF 3 FOR JOHN ROAD AS-BUILT DATA

BATTERY ENGINEERING, INC.
CANTON, MA.
EXISTING CONDITIONS PL

3	8-5-96	GENERAL REVISIONS	BMH	PAK	HWM
2	7-31-96	REVISION FOR CONSERVATION EASEMENT	JPG	PAK	HWM
1	7-30-96	ADDED WETLAND FLAGGING/TOPO	JPG	PAK	HWM
ISSUE	DATE	DESCRIPTION	BY	CHKD	APP

H.W. MOORE ASSOCIATES, INC.
ENGINEERS & PLANNERS
BOSTON, MASS.
DATE: 8-29
SCALE: 1"=40'
SHEET 2 OF 3



- ALGONQUIN GAS TRANSMISSION COMPANY (AGT) EASEMENT**
- Any vehicular/pedestrian crossing of AGT's facilities shall not be allowed without prior approval from the AGT Area Superintendents. Temporary possession of the AGT facility may be required.
 - Marked location of AGT facilities determined by ground field survey location of an AGT marker on OCTOBER 10, 1998.
 - Marked location of AGT facilities at vehicular/pedestrian crossing determined by ground field survey location of an AGT marker on OCTOBER 10, 1998.
 - No activity whatsoever may be performed on AGT's right-of-way, or near AGT's facilities without AGT's approval on this site. AGT's facilities may be arranged by contacting Mr. John Brown, Wetland Area Superintendent, (617) 222-7728, at least 72 hours in advance of the work.

NOTE: SEE LEGEND ON SHEET 2 OF 3
FOR JOHN ROAD AS-BUILT DATA

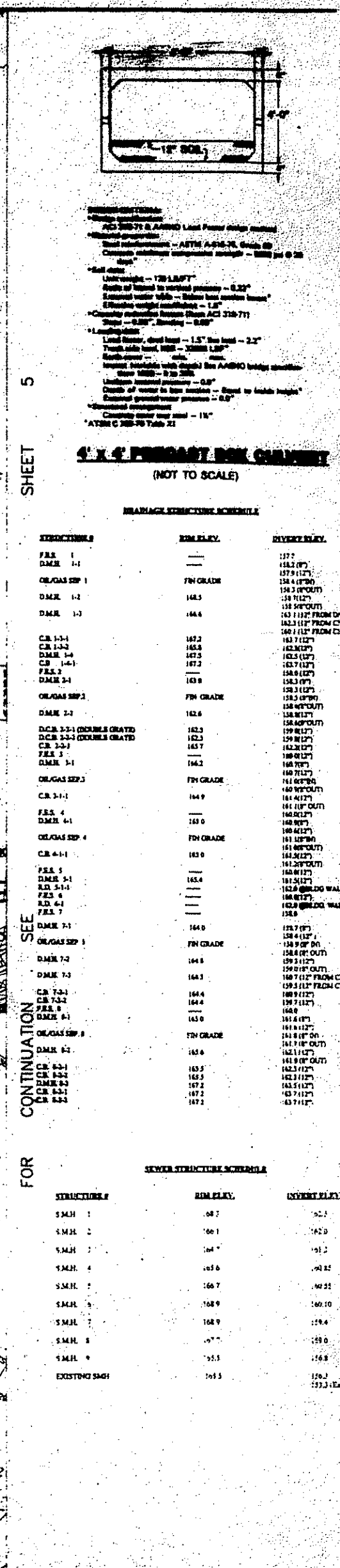
BATTERY ENGINEERING, II
CANTON, MA.

EXISTING CONDITIONS PL

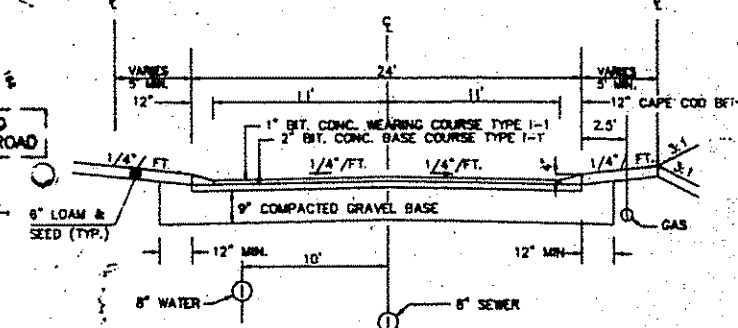
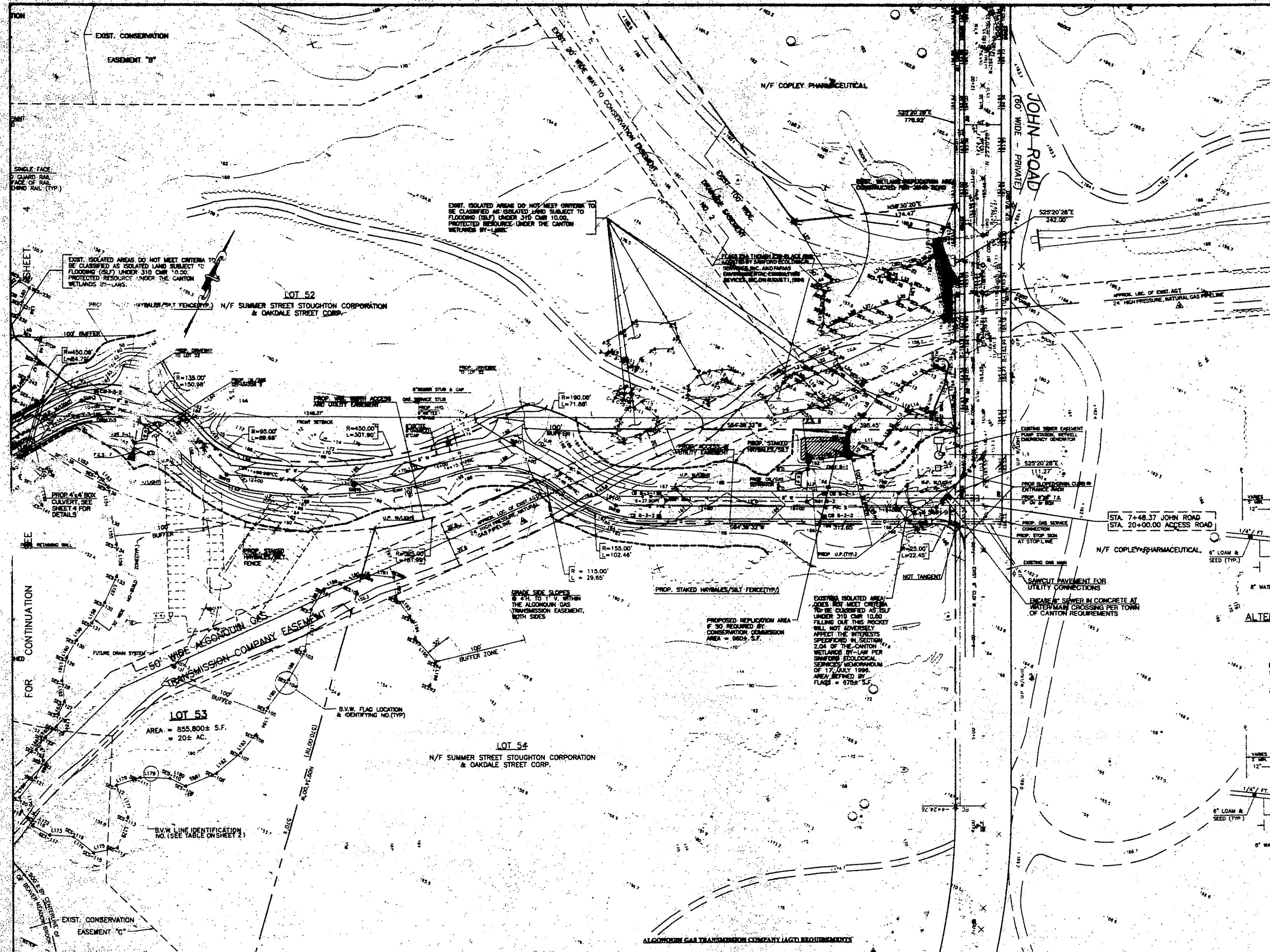
5	8-10-98	ADDED ALGONQUIN DATES	ND	FAK	HWM
4	8-22-98	ADDED ALGONQUIN GAS CO. NOTES	ND	FAK	HWM
3	8-8-98	ADDED WETLAND FLAG 23A - 23D	ND	FAK	HWM
2	7-31-98	REWORK PER CONSERVATION CORP.	JFG	FAK	HWM
1	7-30-98	ADDED WETLAND FLAGGING/TOPD	JFG	FAK	HWM
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

H.W. MOORE ASSOCIATES, INC.
ENGINEERS & PLANNERS
BOSTON, MASS.

DATE: 8-2
SCALE: 1"=4'
SHEET 3

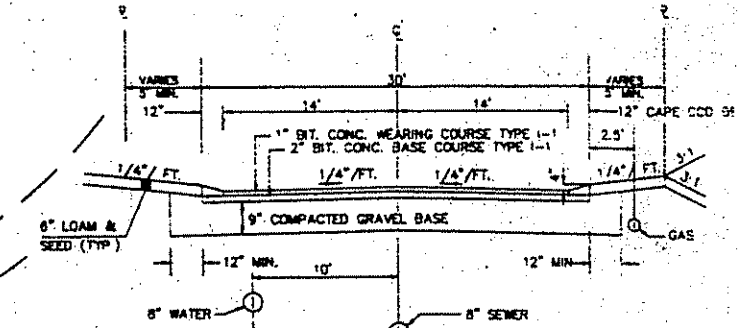


BATTERY ENGINEERING, INC.	
CANTON, MA.	
SITE PLAN	
H.W. MOORE ASSOCIATES, INC. ENGINEERS & PLANNERS BOSTON, MASS.	DATE: 8-2-64 SCALE: 1"=4'-0" SHEET 4 OF 4



ALTERNATE 24' ACCESS DRIVE SECTION
NOT TO SCALE
(TO BE USED IF VARIANCE REQUEST IS GRANTED)

NOTES:
1. SIDE SLOPES TO BE 4:1 WITHIN THE ALGONQUIN GAS TRANSMISSION EASEMENT.
2. RETAINING WALL TO BE CONSTRUCTED AS SHOWN ON THE SITE PLAN. FACE OF WALL TO BE 5'-0" FROM EDGE OF PAVEMENT, BOTH SIDES (SEE DETAIL).



30' ACCESS DRIVE SECTION
NOT TO SCALE

- NOTES:**
- ALL DRAIN LINES SHALL BE 12" CLASS W.R.P.
 - PAVING LOT STRIPING SHALL BE WHITE THERMOPLASTIC (A/C/T).
 - ALL CURBING SHALL BE C&G COD B&W UNLESS OTHERWISE NOTED.
 - NO WORK SHALL BE PERFORMED WITHIN THE 50' WIDE ALGONQUIN GAS COMPANY TRANSMISSION EASEMENT WITHOUT ALGONQUIN INSPECTION PERSONNEL PRESENT. INSPECTION PERSONNEL WILL BE MADE AVAILABLE WITHIN 72 HOURS NOTIFICATION TO THE DISTRICT SUPERINTENDENT AT (617) 328-3750.
 - ALL WATER LINES SHALL BE CONCRETE LINED DUCTILE IRON CONFORMING TO TOWN OF CANTON WATER DEPT. REQUIREMENTS.
 - ALL PARKING SPACES SHALL BE 9'W x 18'L.
 - THE 100 YEAR FLOOD ELEVATION IS BASED ON A STUDY PREPARED BY H. W. MOORE ASSOCIATES, INC. ENTITLED "CANTON COMMERCIAL CENTER STORM RUNOFF ANALYSIS" DATED OCTOBER 1, 1987 AND ON FILE WITH THE CANTON PLANNING BOARD AND CANTON CONSERVATION COMMISSION.
 - PROPOSED ELECTRIC, TELEPHONE & FIRE ALARMS TO BE INSTALLED OVERHEAD ON UTILITY POLES.
 - "NO PARKING" SIGNS SHALL BE INSTALLED EVERY 200 FEET ALONG BOTH SIDES OF THE ACCESS ROAD.
 - ALL TEES, BENDS AND PLUGS FOR THE PROPOSED WATER SYSTEM SHALL BE CONSTRUCTED WITH THRUST BLOCKS - SEE THE DETAIL ON SHEET 6 OF 6.
 - Any vehicle/equipment crossing of AGT's facilities shall not be allowed without prior approval from the AGT Area Superintendent. Temporary protection of the AGT facility may be required.
 - Established location of AGT facilities determined by ground field survey location of an AGT statement on OCTOBER 10, 1998.
 - Vertical location of AGT facilities at vehicle/equipment crossing (s) determined by ground field survey location of an AGT statement on OCTOBER 10, 1998.
 - No activity whatsoever may be performed on AGT's right-of-way or near AGT's facilities without an AGT letter of no objection. AGT temporary may be arranged for by contacting Mr. John Burns, Waterville Area Superintendent, (617) 328-3750, at least 72 hours in advance of the work.

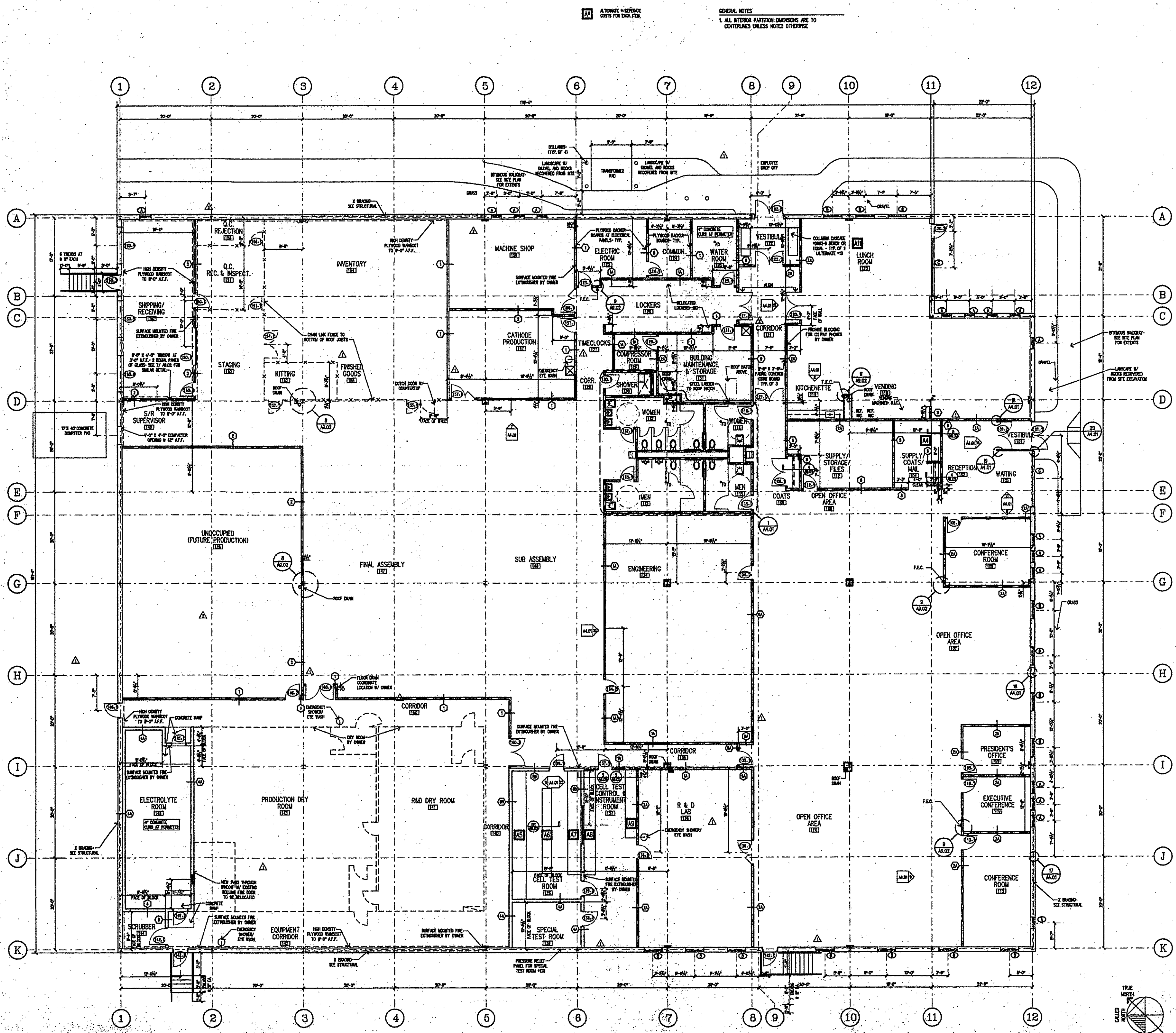
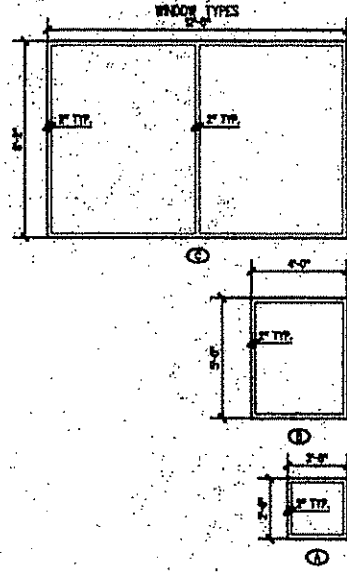
BATTERY ENGINEERING, INC.
CANTON, MA.

SITE PLAN

H.W. MOORE, ASSOCIATES, INC.
ENGINEERS & PLANNERS
BOSTON, MASS.

DATE: 8-29-98
SCALE: 1"=40'
SHEET: 5 OF 5

NO.	DATE	DESCRIPTION	BY	CHKD.	APP.
5	10-10-98	ADDED: NEW 12" W.R.P. LOC.	MPH	FAK	HWM
4	8-22-98	ADDED: ALGONQUIN GAS CO. NOTES	N.D.	FAK	HWM
3	8-8-98	ADDED: BOX CULVERT	MPH	FAK	HWM
2	7-31-98	REVISIONS PER CONSERVATION COM.	PG	FAK	HWM
1	7-30-98	GENERAL REVISION	PG	FAK	HWM
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.



NEW FACILITY CANTON, MA

Cutler Design

100 North Street
P.O. Box 100
Worcester, MA
01090-0100

JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FAIRVIEW AVENUE
AUBURN, MA 02801

SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HANOVER, MA 02339

EDWIN P. HANCOCK, INC.
ELECTRICAL
72 SHARP STREET
HINGHAM, MA 02043

LVI CORPORATION
PLUMBING
7 KIMBALL AVENUE, BUILD.
LYNNFIELD, MA 01901

COORSWELL SPINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER, MA 01601

H.W. MOORE ASSOCIATES, INC.
CIVIL
102 SUMMIT AVENUE
BOSTON, MA 02110

NO.	REVISION	DATE
1	ISSUED FOR PERMIT	7/25/78
2	ISSUED FOR CONSTRUCTION	12/22/78
3	ISSUED FOR METAL ROOFING	12/15/78
4	ISSUED FOR METAL ROOFING	12/15/78
5	ISSUED FOR METAL ROOFING	12/15/78
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98	ISSUED FOR METAL ROOFING	12/15/78
99	ISSUED FOR METAL ROOFING	12/15/78
100	ISSUED FOR METAL ROOFING	12/15/78

FLOOR PLAN

Job no.: 96028
Scale: 1/8" = 1'-0"
Drawn: KAK
Checked: JKS
Date: 10-25-96
A2.01



NEW FACILITY
CANTON, MA

Cutler
Design

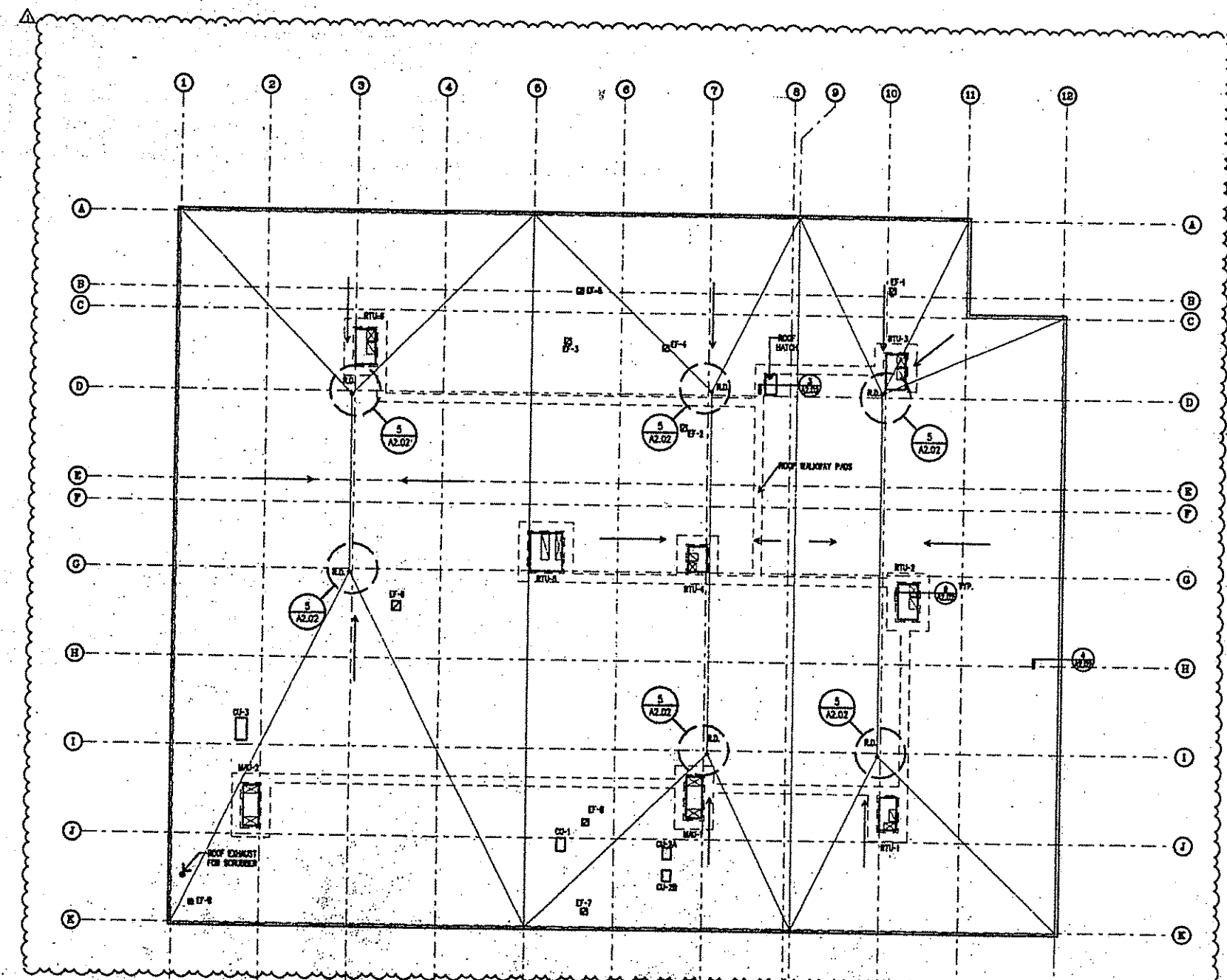
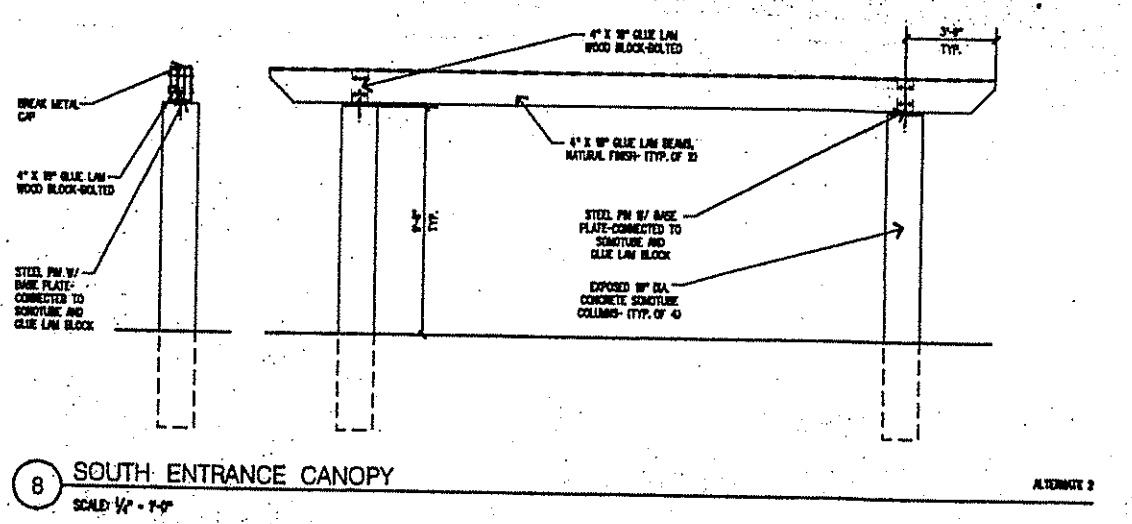
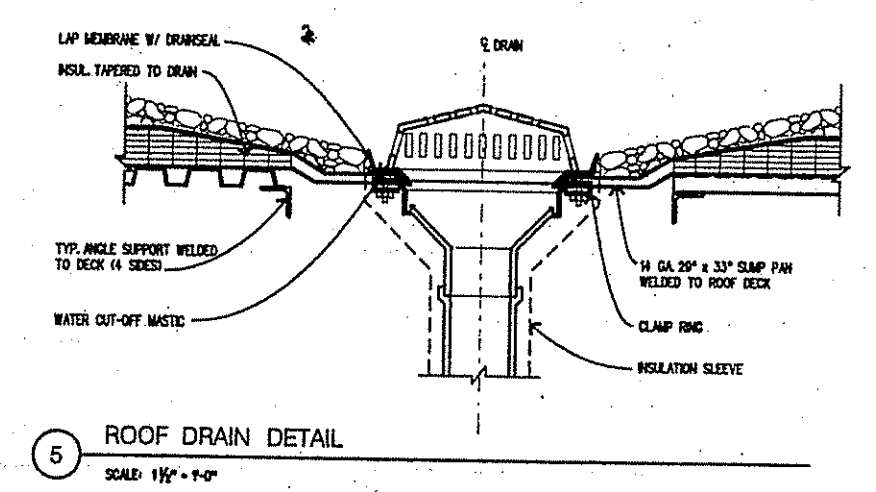
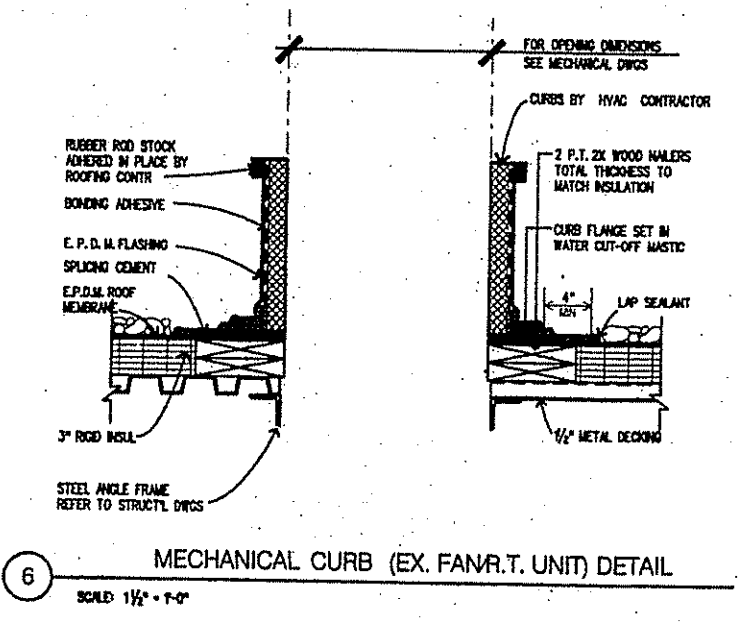
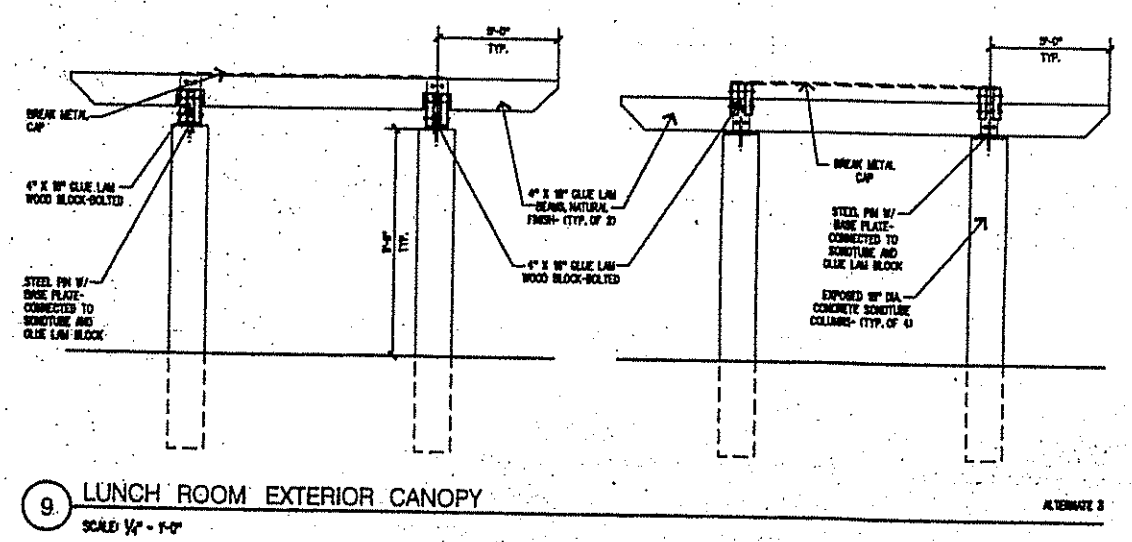
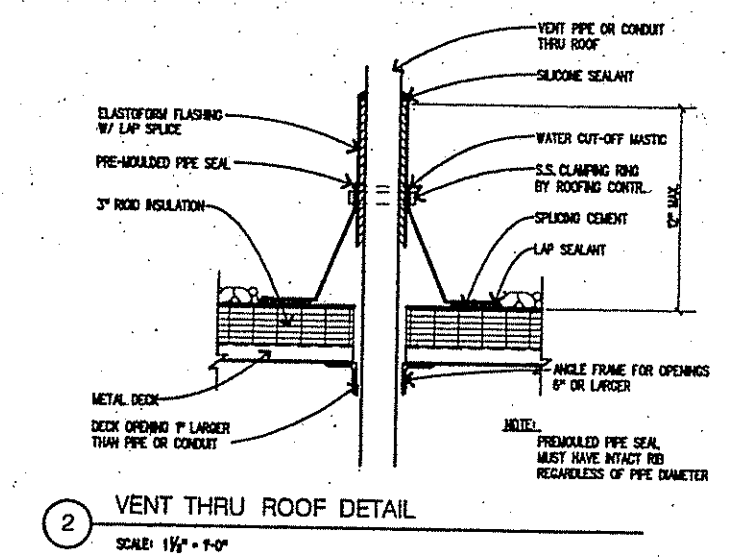
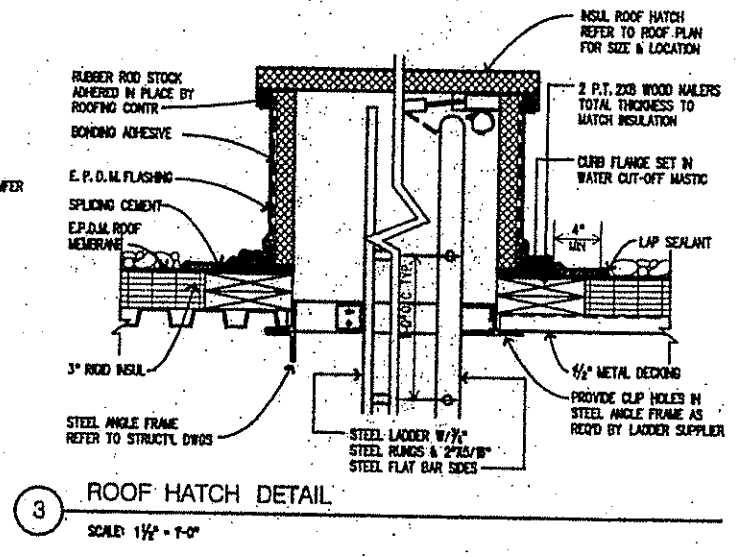
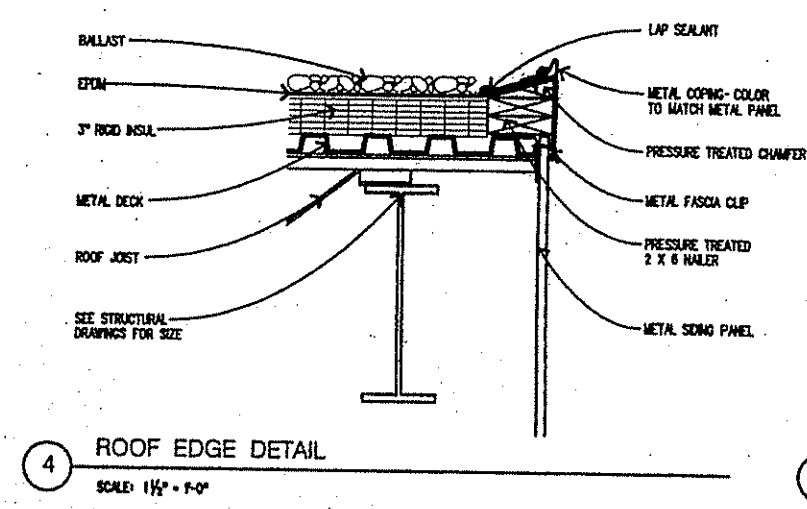
JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FAITH AVENUE
AUBURN, MA 02801
SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HAWKESBURY, MA 02339
ELECTRICAL
72 SHARP STREET
HAWKESBURY, MA 02339
PLUMBING
7 KIMBALL AVENUE, BUILD
LYNNFIELD, MA 02400
CORSEWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WINDHAM, MA 02800
HUNMOORE ASSOCIATES, INC.
CIVIL
12 SHAWMUT AVENUE
BOSTON, MA 02108

no.	revision	date
1	REVISION	12/8/98
2	ISSUED FOR CONSTRUCTION	02/23/99
3	ISSUED FOR METAL, SCHEM/ MOUNTS	03/19/99
4	REVISED FOR CAP	04/09/99
5	ISSUED FOR CAP	04/09/99

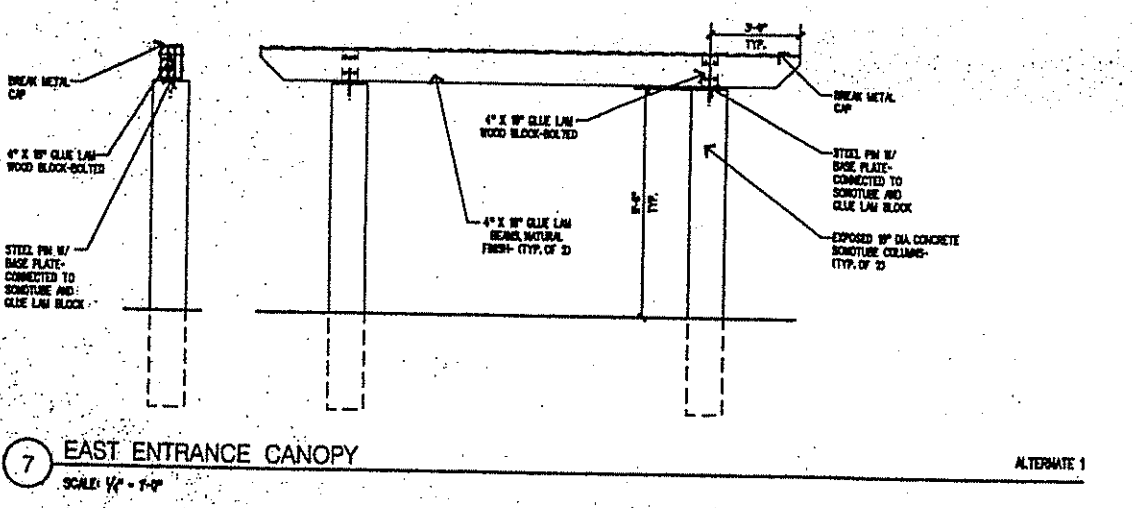
ROOF PLAN
AND DETAILS

job no.: 98028
drawn: AD MOVED
checked: JEB
date: 10-25-98

A2.02



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





NEW FACILITY
CANTON, MA

Cutler
Design

43 Harvard Street
P.O. Box 600
Needham, MA
02455-0600
617-552-7000
FAX 617-552-7000

JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FAITH AVENUE
AUBURN, MA 02801

SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HAWTHORNE, MA 02333

EDWIN P. JAWORSKI, INC.
ELECTRICAL
72 SHADY STREET
HAWTHORNE, MA 02333

LYR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BUILD.
LYNNFIELD, MA 02040

COSWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER, MA 01609

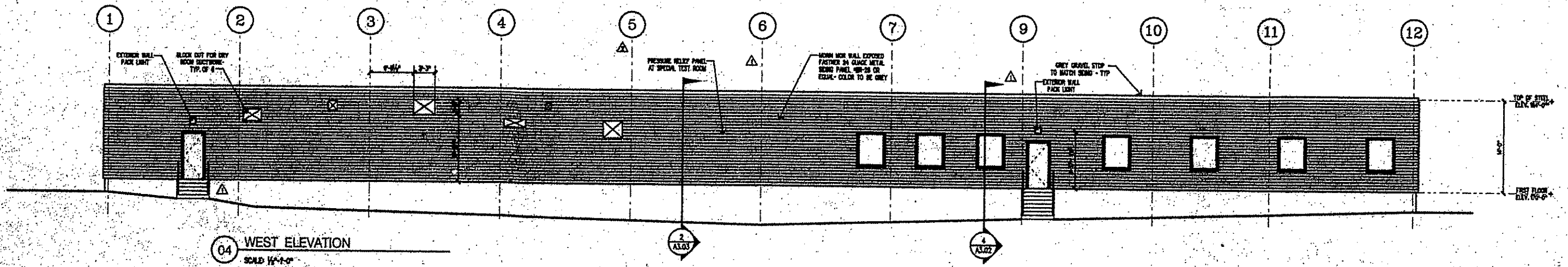
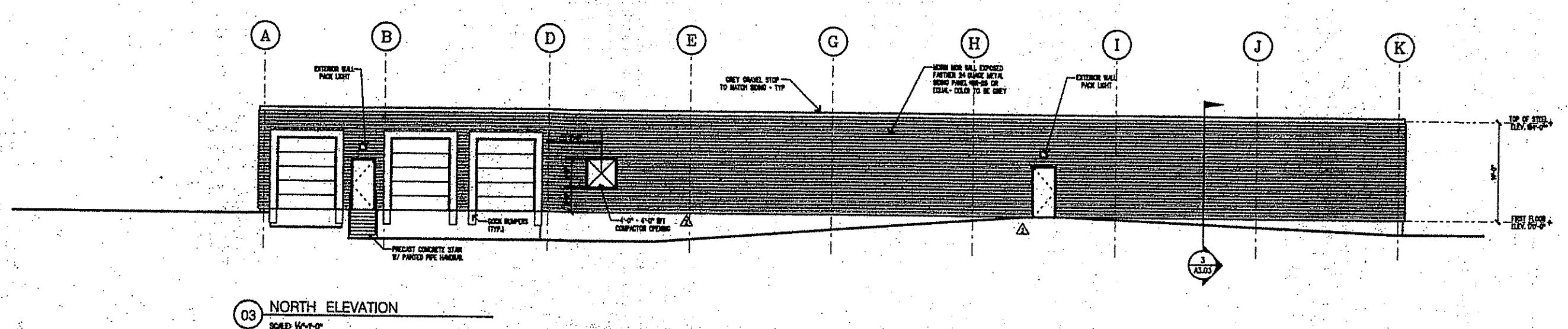
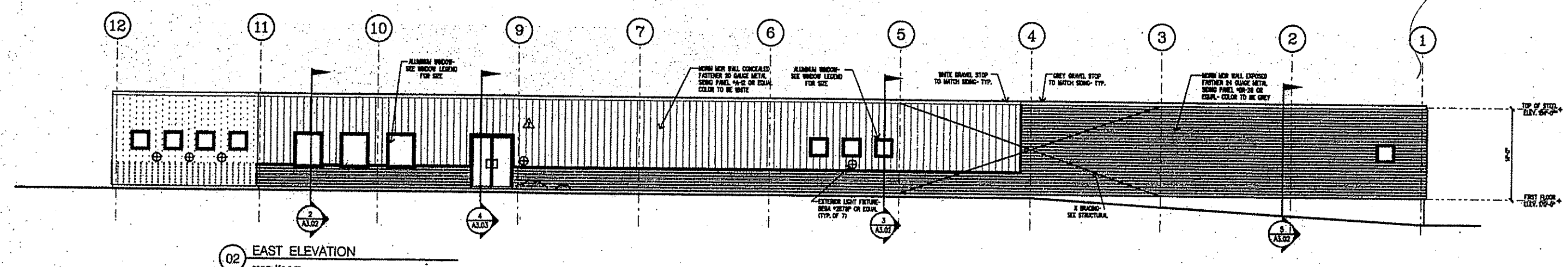
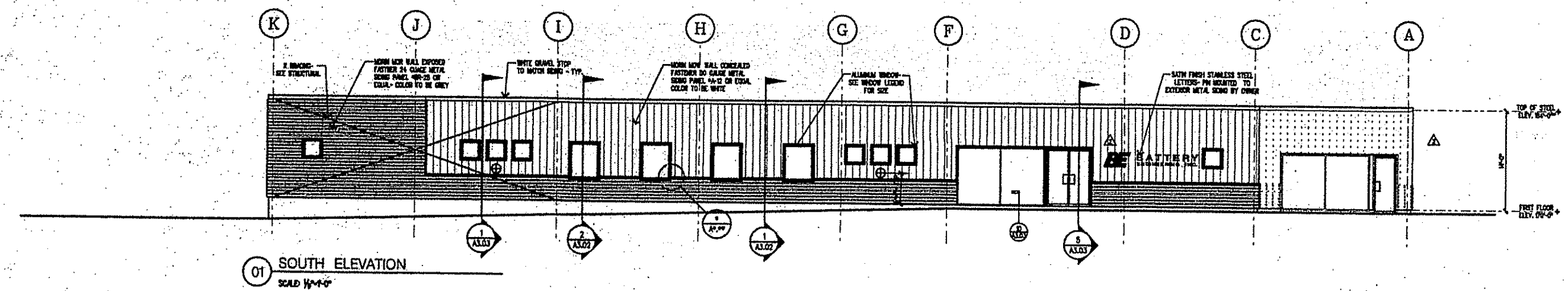
HAWKINS ASSOCIATES, INC.
CIVIL
112 SHAWMUT AVENUE
BOSTON, MA 02108

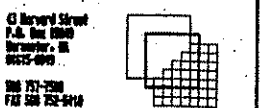
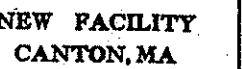
no.	revision	date
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2	ISSUED FOR CONSTRUCTION	06/22/99
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4	ISSUED FOR METAL ROOFING	06/22/99
5	ISSUED FOR METAL ROOFING	06/22/99
6	ISSUED FOR METAL ROOFING	06/22/99
7	ISSUED FOR METAL ROOFING	06/22/99
8	ISSUED FOR METAL ROOFING	06/22/99
9	ISSUED FOR METAL ROOFING	06/22/99
10	ISSUED FOR METAL ROOFING	06/22/99
11	ISSUED FOR METAL ROOFING	06/22/99
12	ISSUED FOR METAL ROOFING	06/22/99

EXTERIOR BUILDING
ELEVATIONS

job no.: 96028
scale: AS NOTED
drawn: JED
checked: JED
date: 10-28-98

A3.01





JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FAITH AVENUE
MILFORD, MA 01901

SOUTH SHORE ENGINEERING TEAM
MECHANICAL
780 WASHINGTON STREET
HANOVER MA 02339

EDWIN P. MAHARD, INC.
ELECTRICAL
72 SHARP STREET
LIMPSHAM, MA 02037

LVR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BLD. D

LYNNFIELD, MA 01940
DOGSWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
88 CANTERBURY STREET

22 CANTERBURY STREET
WORCESTER, MA 01602
HILLMOORE ASSOCIATES, INC.
CIVIL

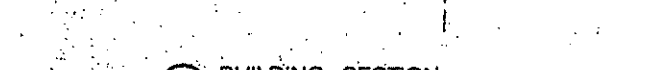
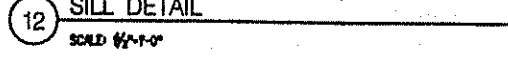
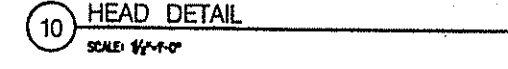
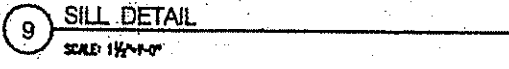
112 SHAWMUT AVENUE	
BOSTON, MA 02118	

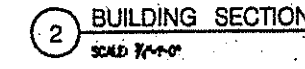
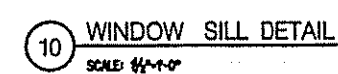
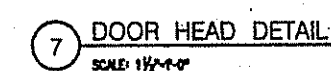
ISSUED FOR CONSTRUCTION	5/22/98
ISSUED FOR META, SEMI, WINDOWS	10/6/98
REVISED ISSUED FOR GMP	6/28/98
ISSUED FOR GMP	1/1/99
revision	date

EXTERIOR BUILDING
SECTIONS AND
DETAILS

no. : 98028	
: 7/4-1-0"	
name : KAK	file : G028A302
red : JKS	date : 10-22-98

A3.02





43 Harvard Street
P.O. Box 15043
Burlington, MA
01825-0043

508 757-7500
FAX 508 752-5410

JOHNSTON & SEAMAN ENGINEERING INC.

STRUCTURAL
4 FAITH AVENUE
ALBUQUERQUE, NM 08501

SOUTH SHORE ENGINEERING TEAM
MECHANICAL
780 WASHINGTON STREET
HAWAII, HI 02335

EDWIN P. HARRIS, INC.
ELECTRICAL
726 SHARP STREET
HAWAII, HI 02343

LTV CORPORATION
PLUMBING
7 KIMBALL AVENUE, BLDG. D
DUNFELD, MA 01930

COSSWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER, MA 01601

HUNNORE ASSOCIATES, INC.
CIVIL
12 SUMMIT AVENUE
BOSTON, MA 02888

EXTERIOR BUILDING
SECTIONS AND
DETAILS

job no. : 98028	
scale : 3/4"-1'-0"	
drawn : KAK	file : G028A303
checked : JKS	date : 10-28-90

A3.03

3	03	17	18:03:48
\\dicard\project\95028\0028a303.d			



NEW FACILITY
CANTON, MA

Cutler
Design

600 North Street
P.O. Box 100
Barnstable, MA
02536-0100
508 551-7000
FAX 508 551-4400
JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FORTY AVENUE
ALBURNIA, MA 02301
SOUTH SHORE ENGINEERING TEAM
720 WASHINGTON STREET
HAWKESBURY, MA 02339
EDWIN F. HANCOCK, INC.
ELECTRICAL
72 SHARP STREET
HAWKESBURY, MA 02339
LYR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BUILD. 10
LYNNFIELD, MA 01904
CROSSWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER, MA 01601
HUNNORE ASSOCIATES, INC.
CIVIL
102 SUMMIT AVENUE
BOSTON, MA 02118

1	DATE SHEET REVISED	10/28/97
2	DESIGN FOR CONSTRUCTION	10/28/97
3	REVISED BASED FOR MAP	11/19/97
4	DESIGN FOR MAP	10/28/97
5	DATE	
6	REVISION	
7	DATE	

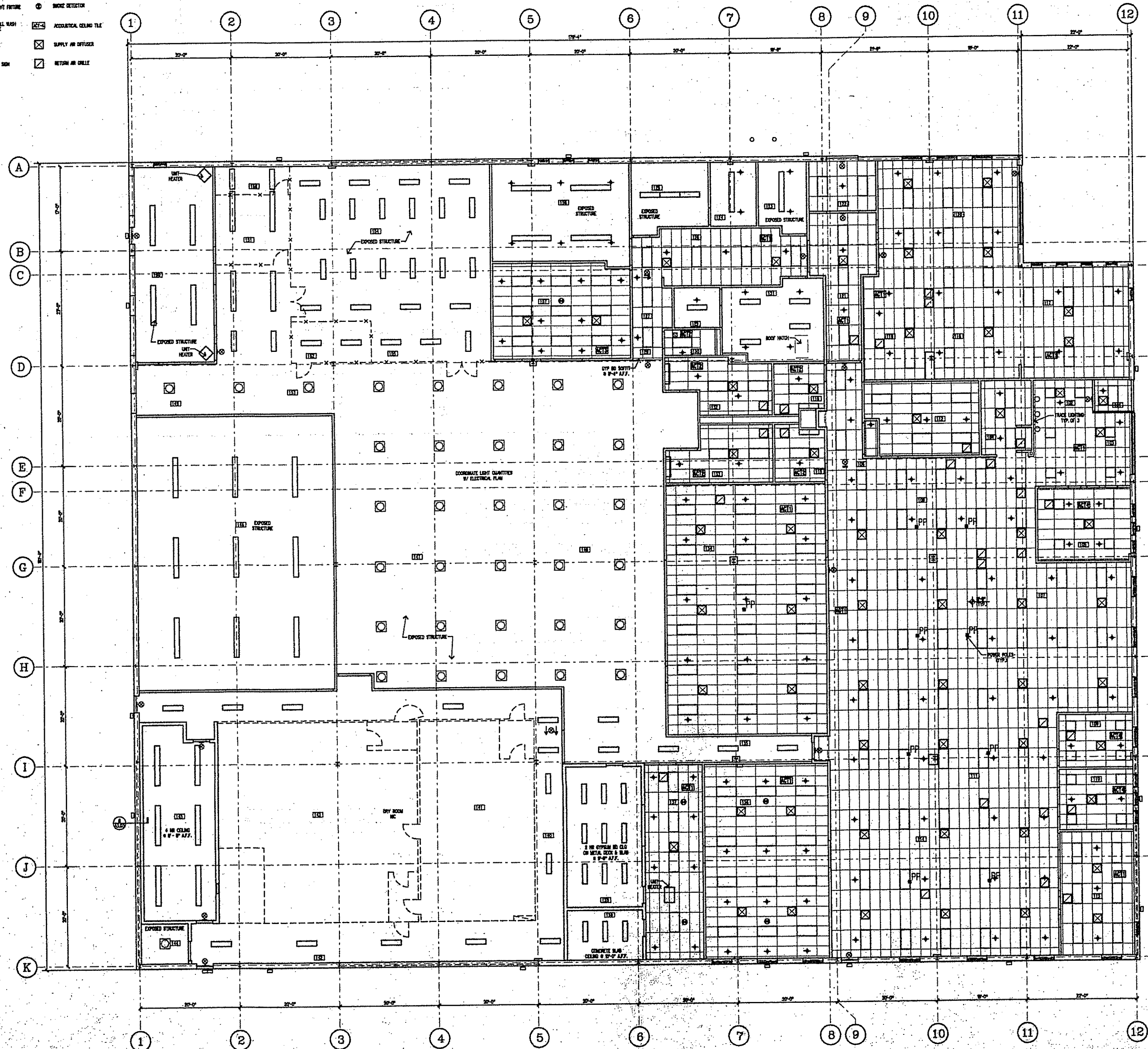
REFLECTED
CEILING PLAN

job no.: 96028
scale: 1/8" = 1'-0"
drawn: RJS
checked: JEB
date: 10-28-97

A6.01

SYMBOLS LEGEND

8 x 4 FLUORESCENT LIGHT FIXTURE	PERIMETER MOUNTED LIGHT FIXTURE	SPRINKLER HEAD
4 x 8 FLUORESCENT LIGHT FIXTURE	RECESSED LIGHT FIXTURE	SMOKE DETECTOR
WALL MOUNTED LIGHT FIXTURE	RECESSED WALL MOUNT LIGHT FIXTURE	ACOUSTICAL CEILING TILE
12 x 4 PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE	WALL SCONCE	SUPPLY AIR DIFFUSER
12 x 6 PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE	LAMPED EXIT SIGN	RETURN AIR GRILLE





NEW FACILITY
CANTON, MA

Cutler
Design

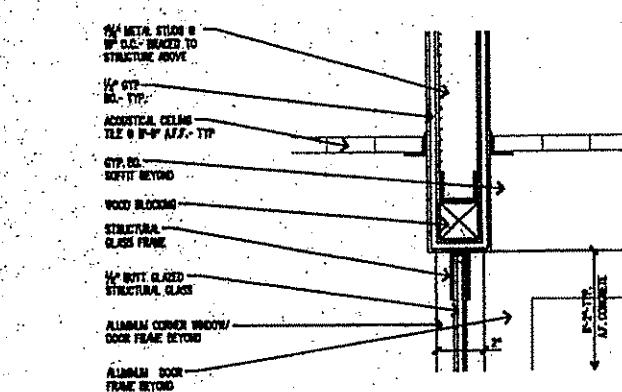
40 Bedford Street
P.O. Box 1000
Worcester, MA
01605-0100
TEL: 800-750-7878
FAX: 508-853-4000
JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FAITH AVENUE
AUBURN, MA 01501
SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HARTFORD, CT 06103
EDWIN P. MAHARD, INC.
ELECTRICAL
72 SHARP STREET
HARTFORD, CT 06103
LVR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BLDG.
LYNNFIELD, MA 01904
COSMELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER, MA 01606
HOMMOORE ASSOCIATES, INC.
CIVIL
102 SHAWMUT AVENUE
BOSTON, MA 02109

no.	revision	date
1	GENERAL REVISIONS	1/2/97
2	ISSUED FOR CONSTRUCTION	6/12/97
3	REVISED ISSUED FOR GIP	8/15/97
4	ISSUED FOR GIP	9/24/97

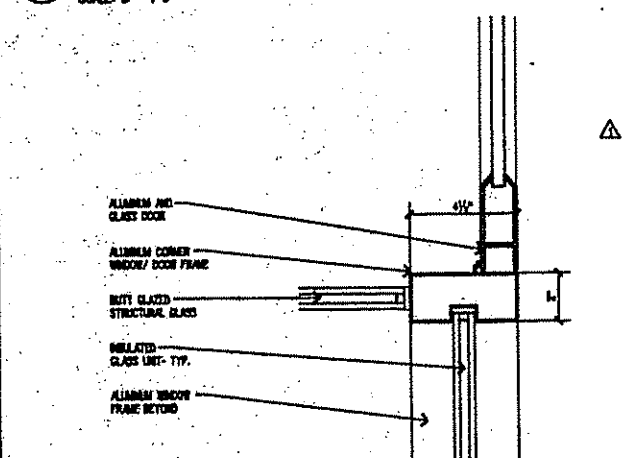
ENLARGED PLANS
AND
TOILET ROOM
ELEVATIONS

Job no.: 98028
Scale: 1/4" = 1'-0"
Drawn: KAK/MMA
Checked: JEN
Date: 10-28-98

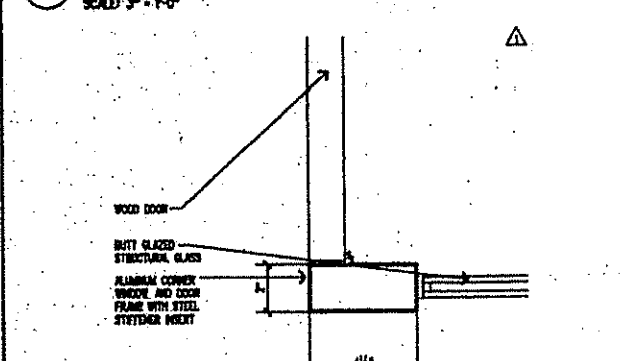
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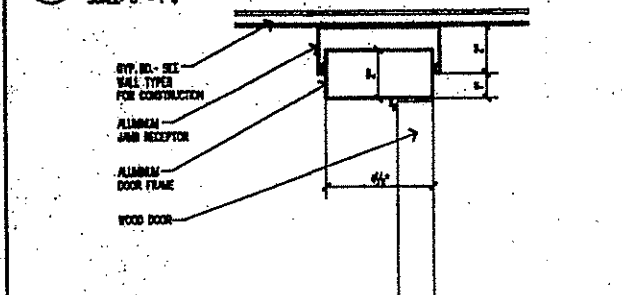
21 SOFFIT DETAIL AT ENTRANCE VESTIBULE
SCALE: 3/4" = 1'-0"



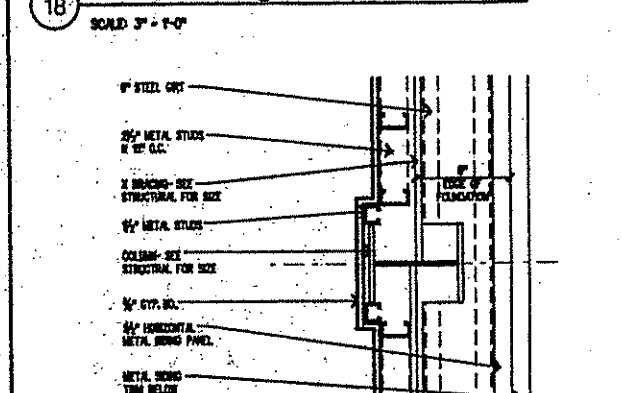
20 PLAN DETAIL @ DOOR/WINDOW CORNER
SCALE: 3/4" = 1'-0"



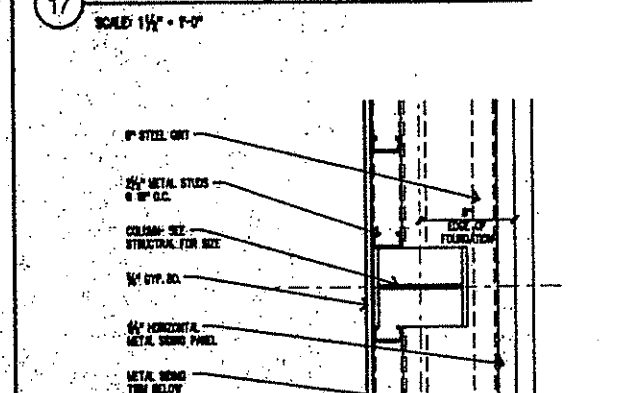
19 PLAN DETAIL @ WINDOW CORNER
SCALE: 3/4" = 1'-0"



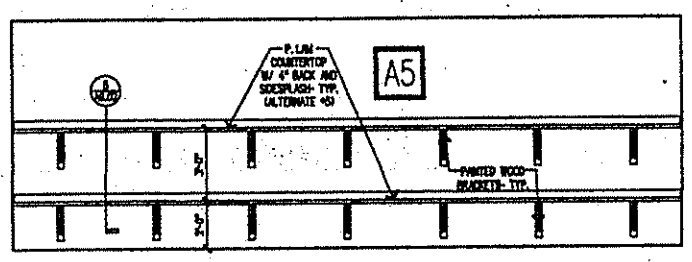
18 PLAN DETAIL @ DOOR FRAME
SCALE: 3/4" = 1'-0"



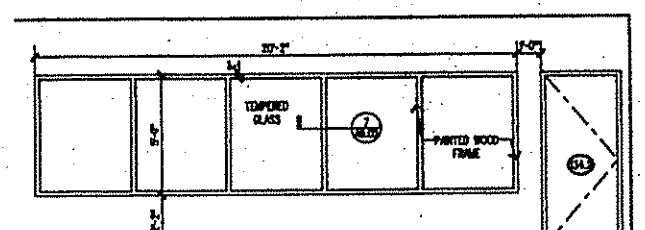
17 PLAN DETAIL @ X BRACING
SCALE: 1 1/4" = 1'-0"



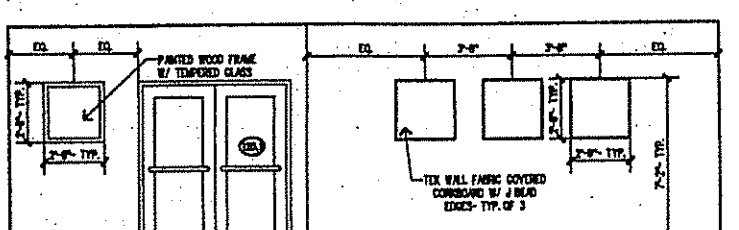
16 PLAN DETAIL AT COLUMN
SCALE: 1 1/4" = 1'-0"



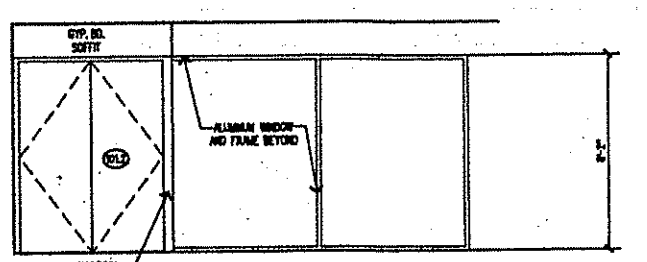
11 ELEVATION- CELL TEST ROOM #139
SCALE: 1/4" = 1'-0"



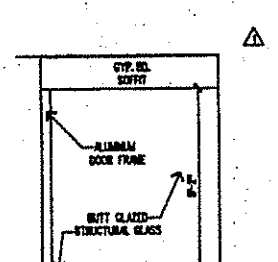
10 ELEVATION- ENGINEERING #134
SCALE: 1/4" = 1'-0"



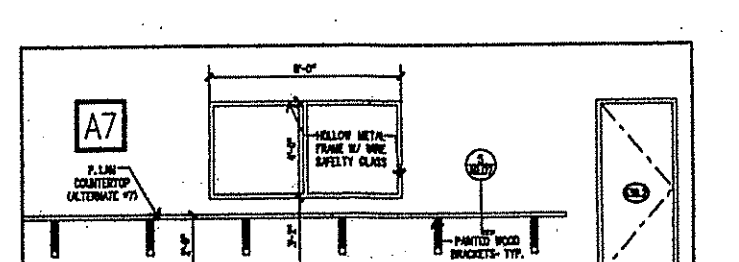
15 ELEVATION- CORRIDOR 121
SCALE: 1/4" = 1'-0"



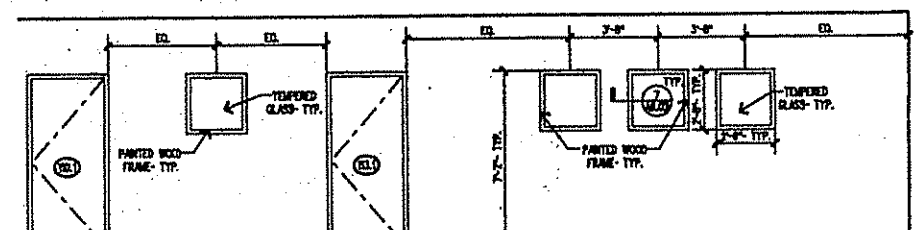
14 ELEVATION- RECEPTION #102
SCALE: 1/4" = 1'-0"



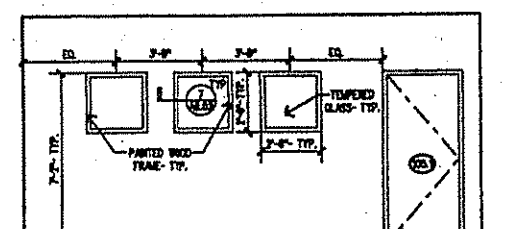
13 ELEVATION- RECEPTION #102
SCALE: 1/4" = 1'-0"



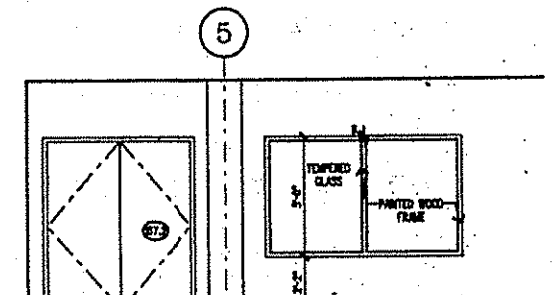
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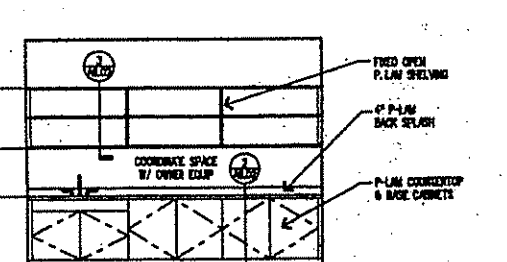
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SCALE: 1/4" = 1'-0"



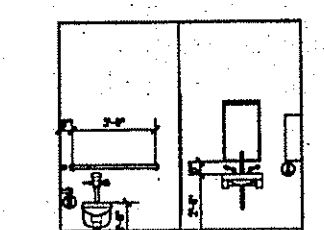
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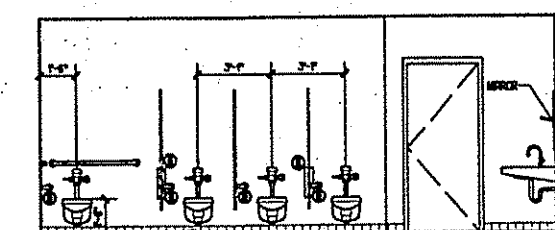
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SCALE: 1/4" = 1'-0"



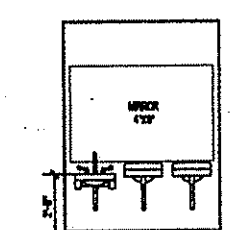
6 ELEVATION-KITCHENETTE RM. 119
SCALE: 1/4" = 1'-0"



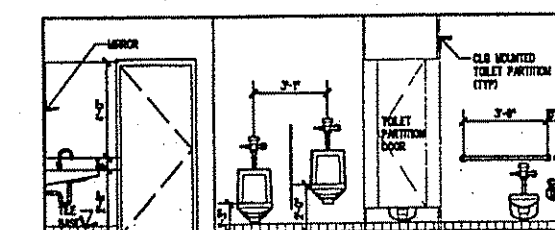
5 ELEVATION
SCALE: 1/4" = 1'-0"



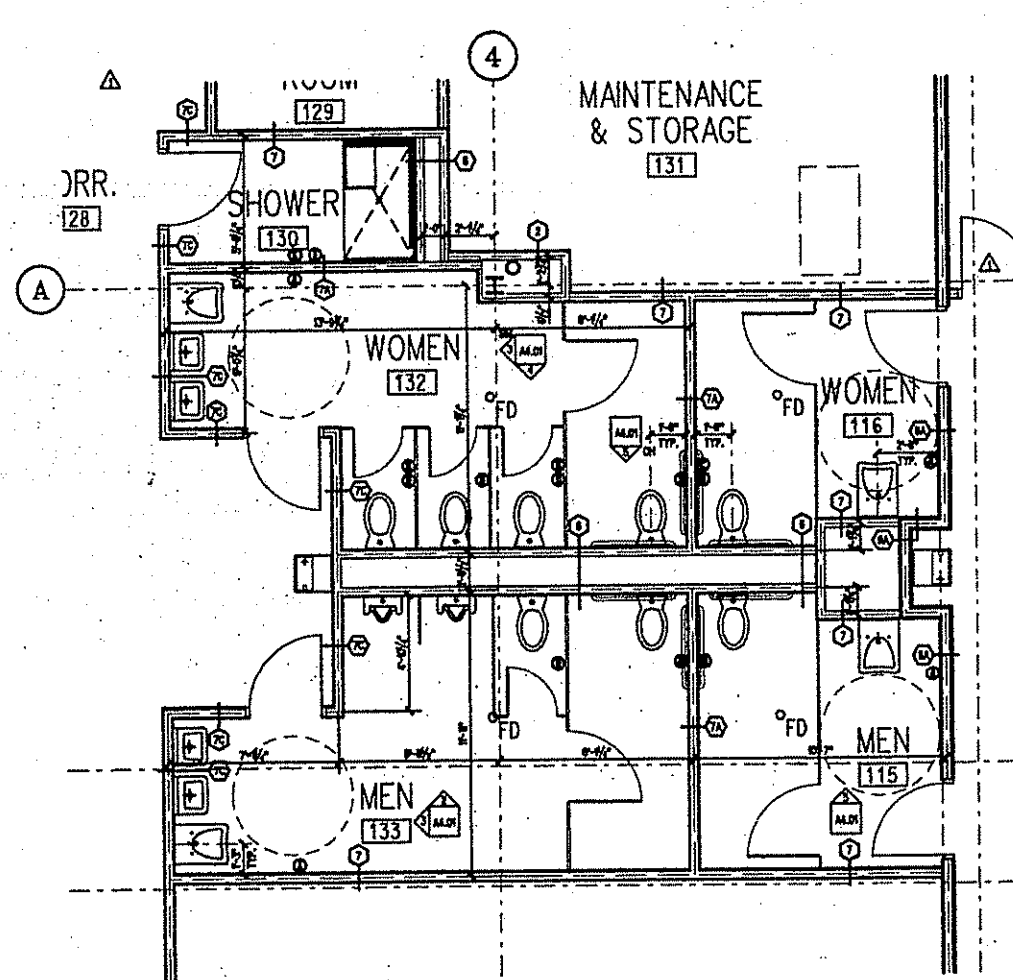
4 ELEVATION
SCALE: 1/4" = 1'-0"



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



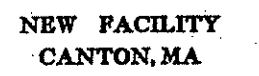
2 ELEVATION
SCALE: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

- 1 SERVICE MOUNTED PAPER TOWEL DISPENSER
- 2 DUAL SANITARY WIPER DISPOSAL
- 3 SINGLE SANITARY WIPER DISPOSAL
- 4 SERVICE MOUNTED TOILET TISSUE DISPENSER
- 5 HANG HOOK





NEW FACILITY
CANTON, MA

Cutler
Design

43 Harvard Street
P.O. Box 1390
Warner, NH
0325-0000

508 752-7500
FAX 508 752-9416

JOHNSON & SEAMAN ENGINEERING, INC.

JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FAITH AVENUE
NORTHEN, MA. 01861

SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HANOVER, MA 02339

EDWIN P. MINARD, INC.
ELECTRICAL
72 SHARP STREET
BIRMINGHAM, ALA 35203

LVR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BLD. D
LYNNFIELD, MA 01902

COGSWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER, MA 01610

HUNMOORE ASSOCIATES, INC.
CIVIL
82 SHAWMUT AVENUE
BOSTON, MA 02111

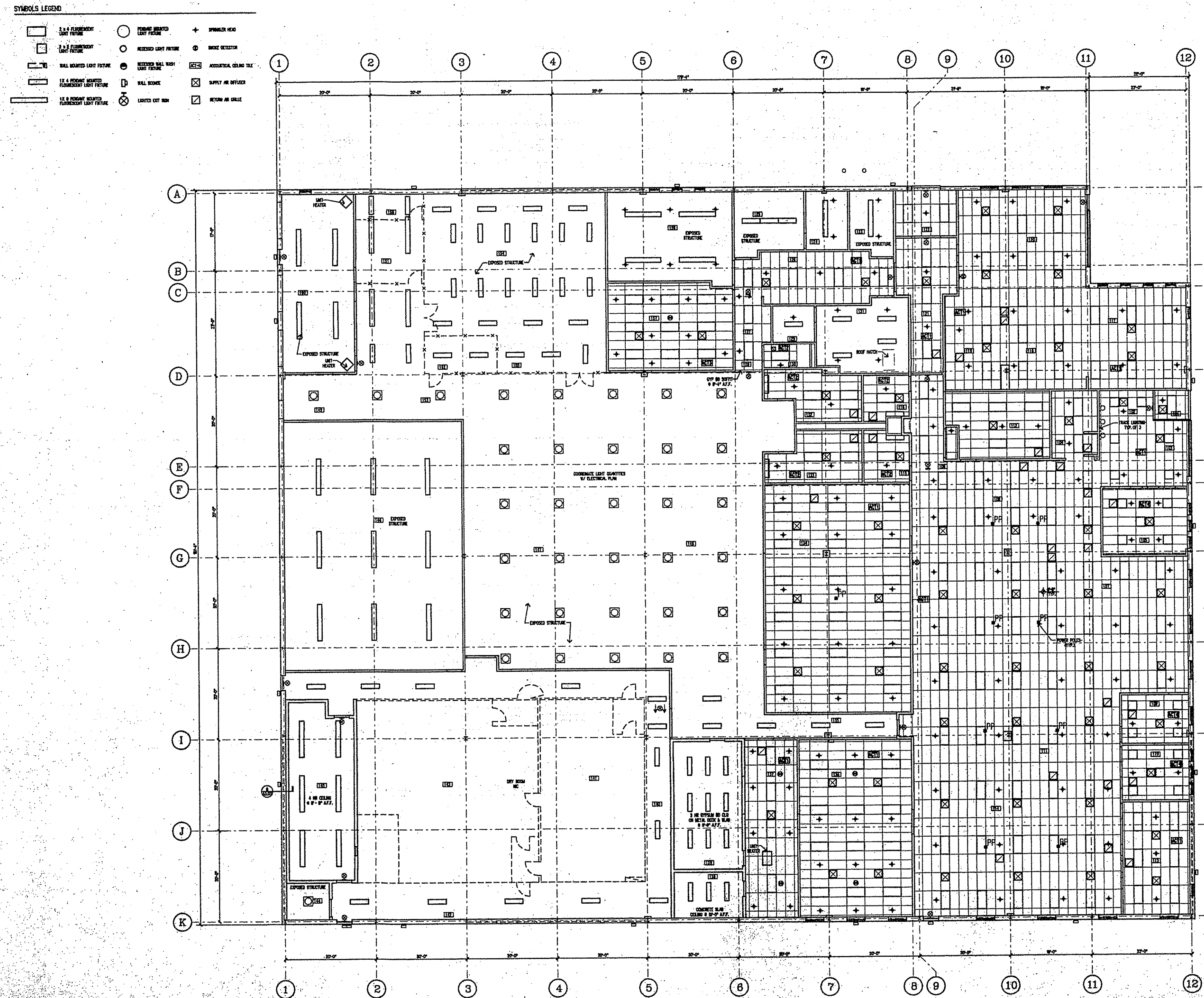
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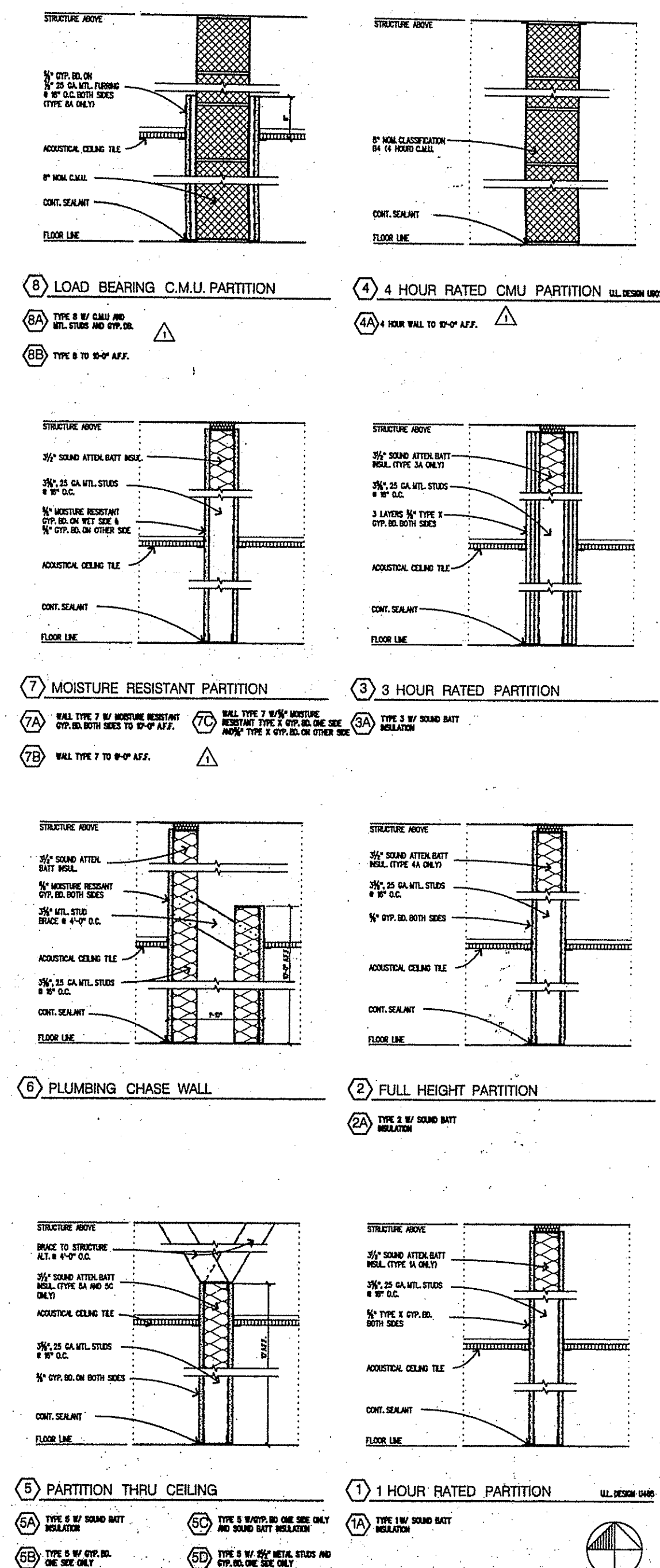
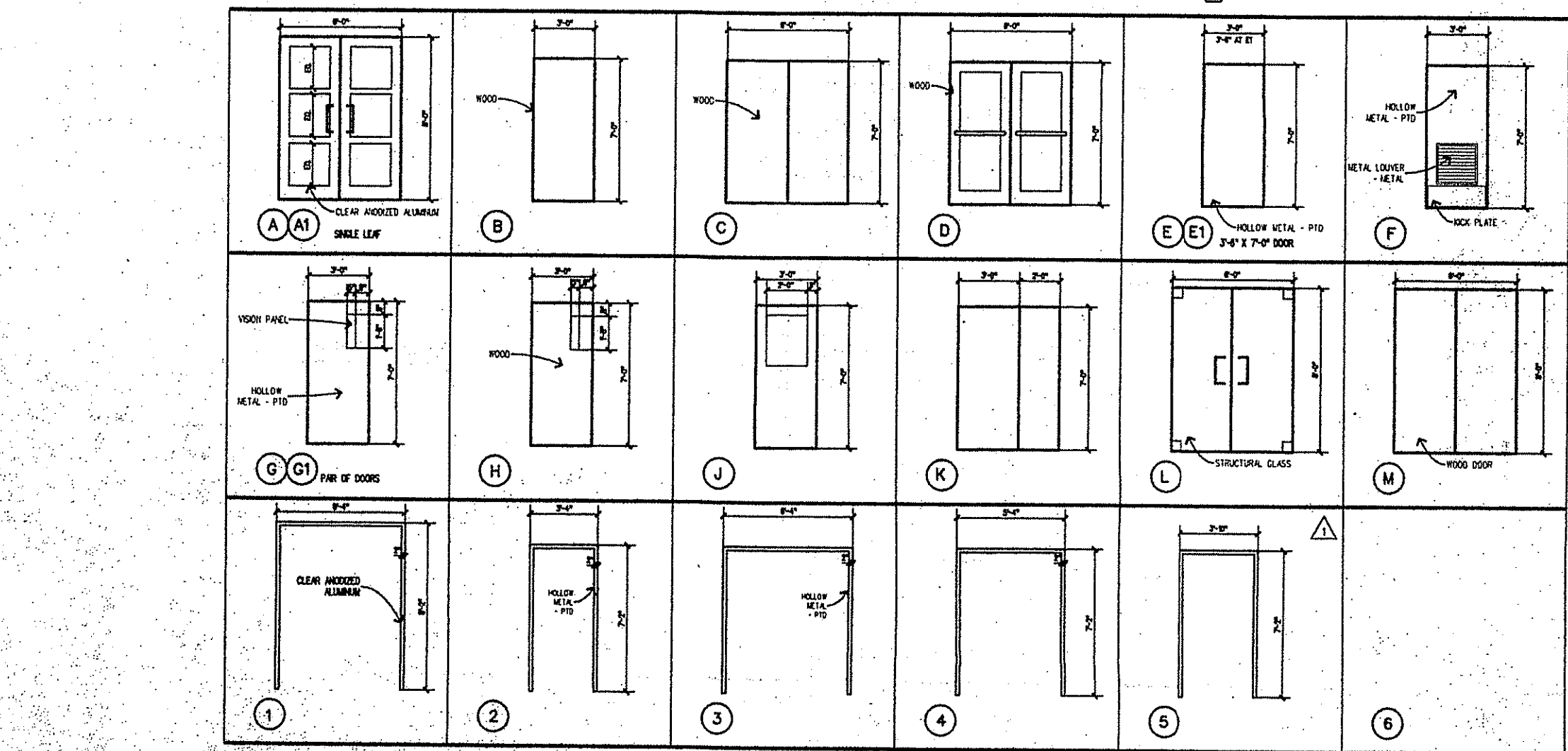
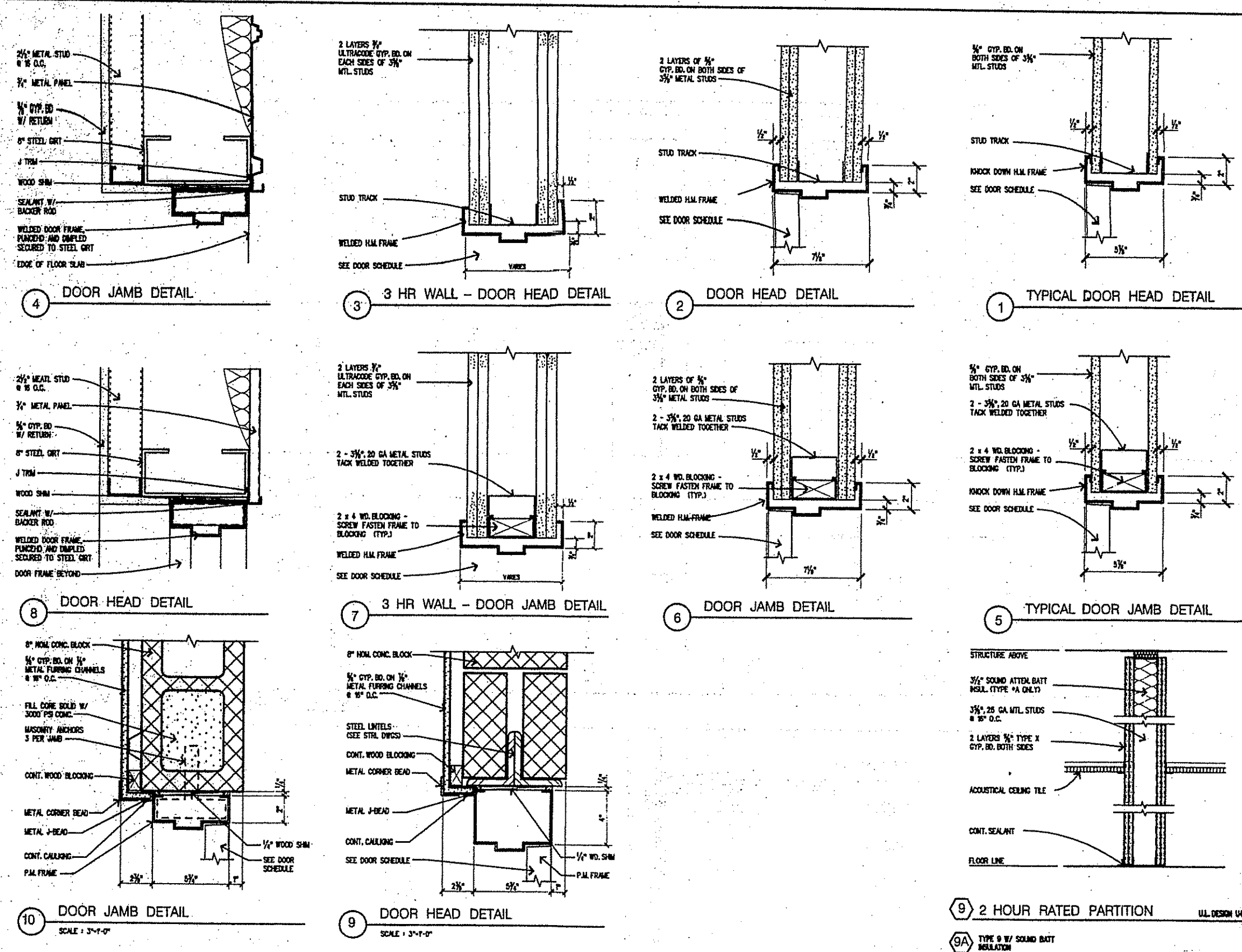
REFLECTED
CEILING PLAN

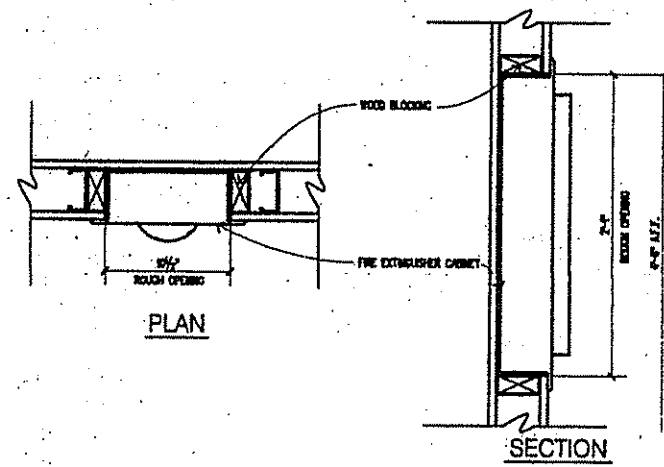
Job no.: 06028

job no. : 98028	
scale : 1/8" = 1'-0"	
drawn : SOS	file : G028A6
checked : JKS	date : 10-22-9

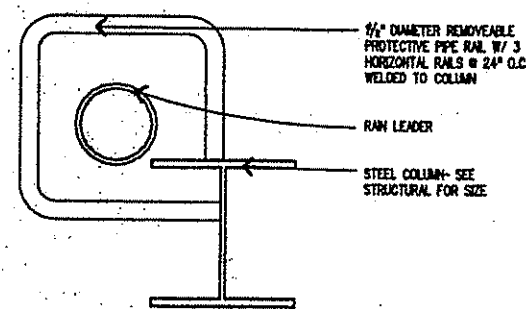
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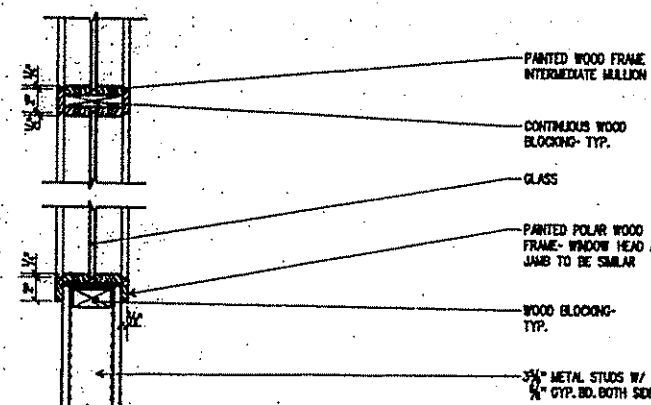




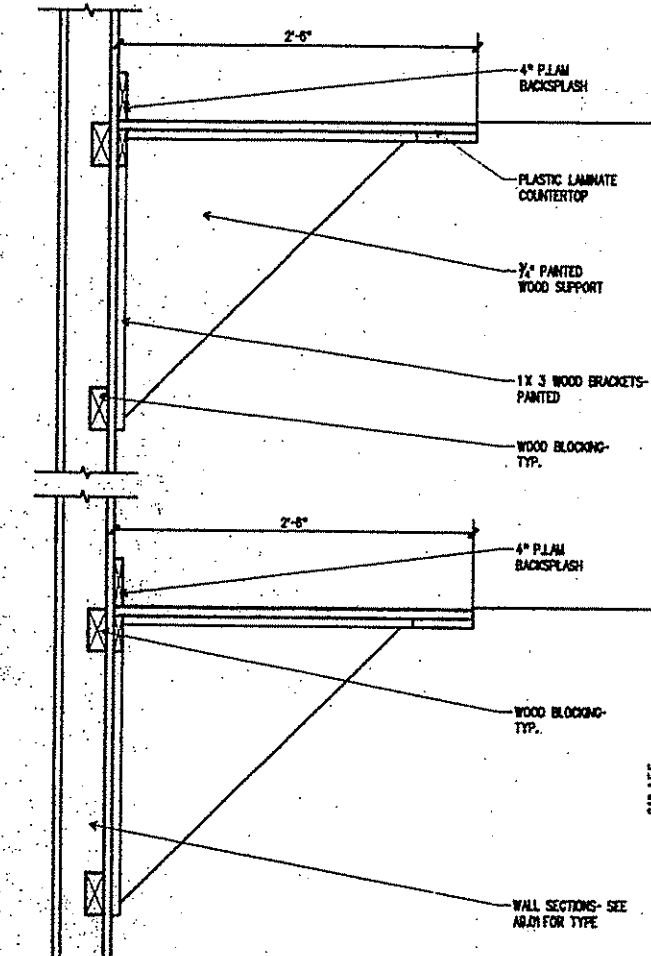
9 PLAN & SECTION DETAILS @
FIRE EXTINGUISHER CABINET
SCALE: 1 1/2\"/>



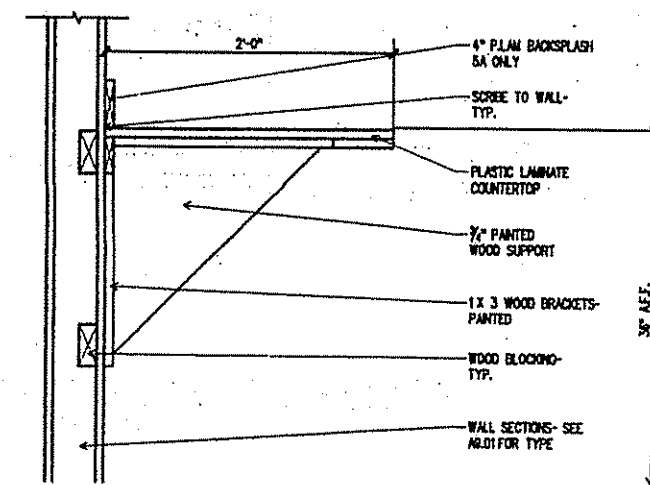
8 DETAIL AT COLUMN W/ RAIN LEADER
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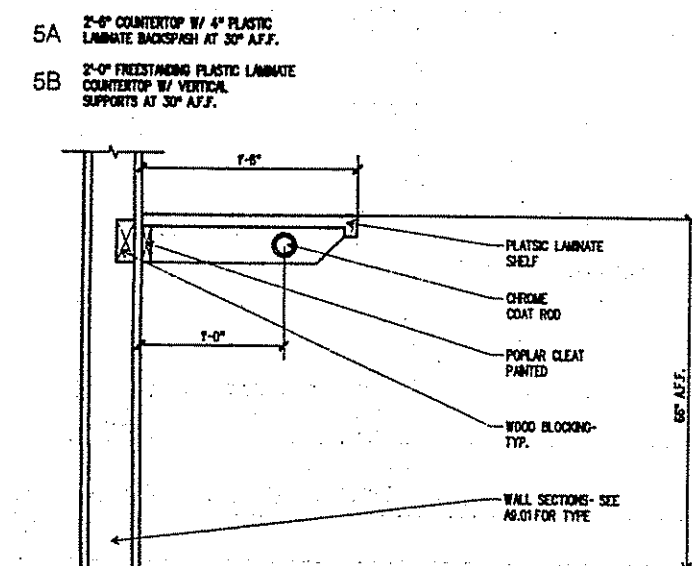
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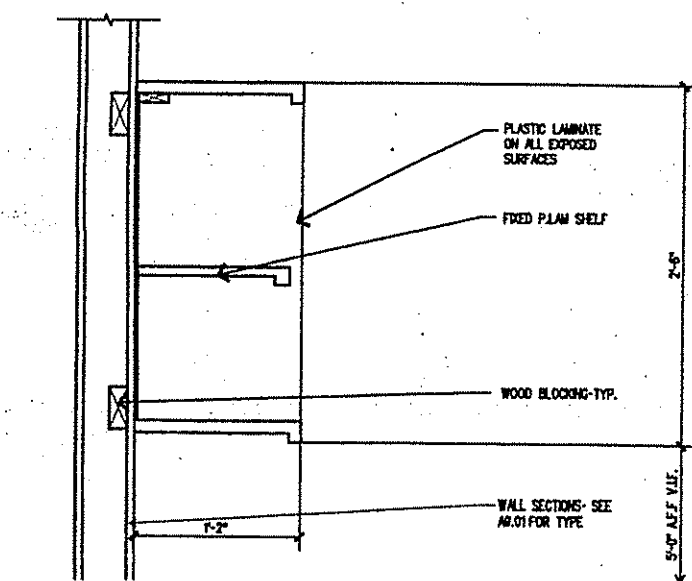
6 SECTION AT CELL TEST ROOM COUNTERTOPS
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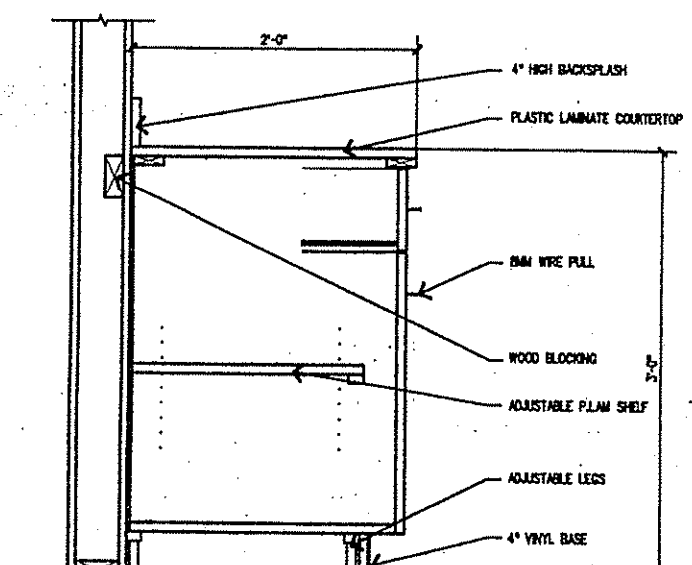
5 SECTION AT COUNTERTOP
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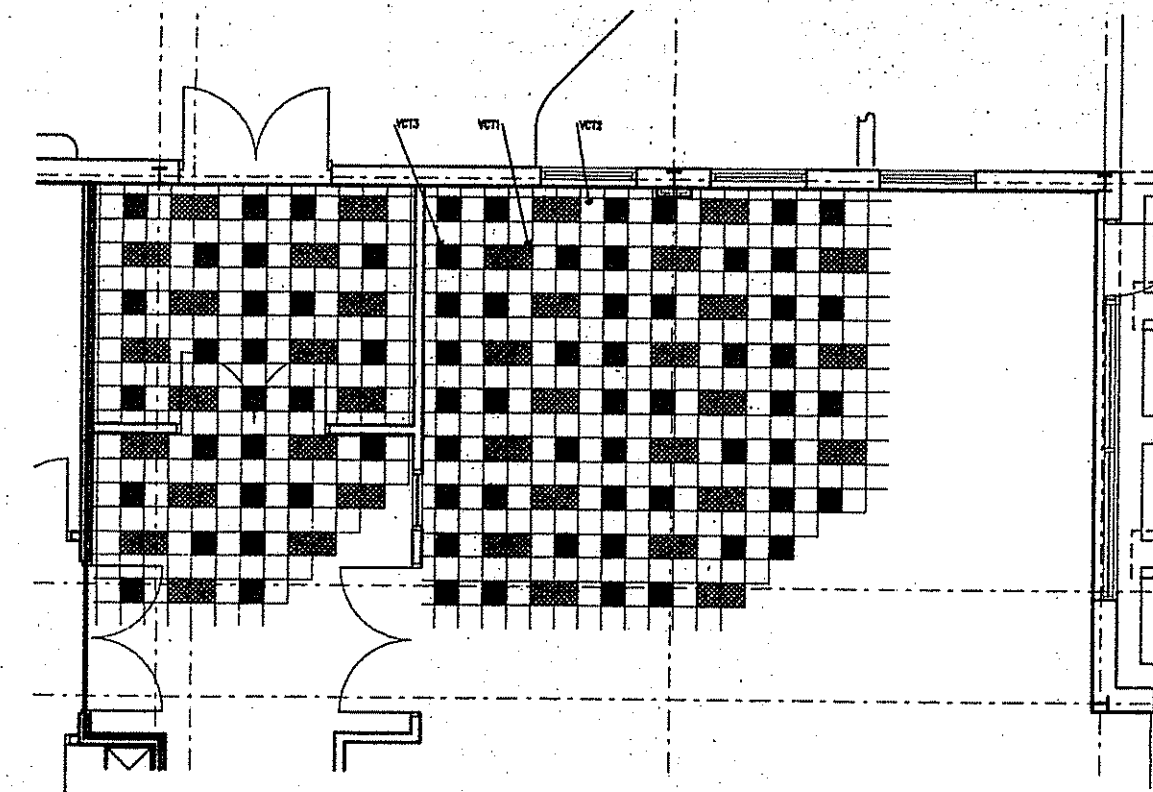
4 SECTION AT COAT ROD AND SHELF
SCALE: 1 1/2\"/>



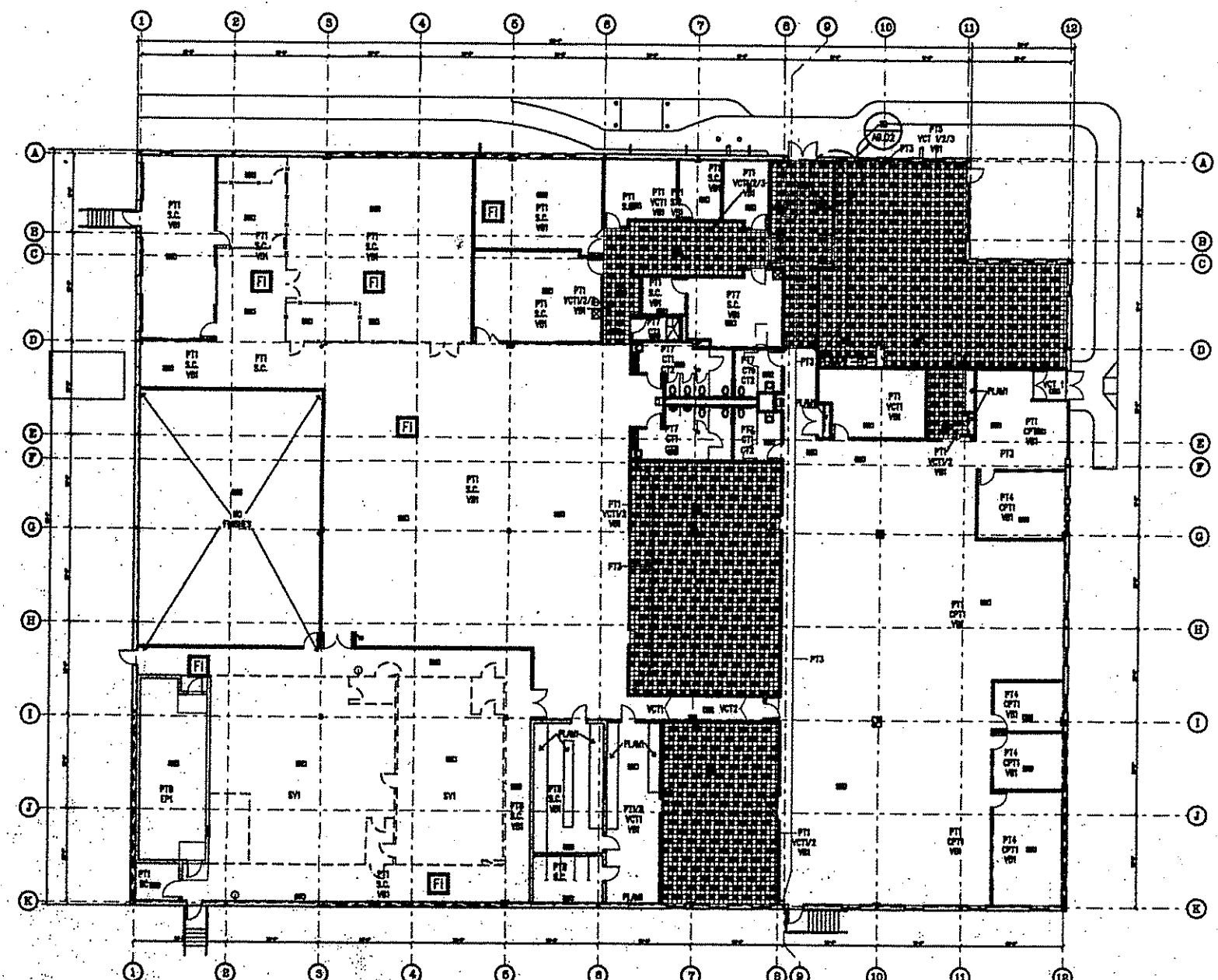
3 SECTION AT OPEN WALL CABINETS
SCALE: 1 1/2\"/>



2 SECTION AT BASE CABINET
SCALE: 1 1/2\"/>



10 TILE PATTERN DETAIL
SCALE: 1 1/2\"/>



1 ROOM FINISH PLAN
SCALE: 1/8\"/>



NEW FACILITY
CANTON, MA

Cutler
Design

6 Howard Street
P.O. Box 1980
Boston, MA
02203-0198
Tel: 617-552-1100
Fax: 617-552-1101
JOHNSON & SEANAN ENGINEERING, INC.
STRUCTURAL
4 FAITH AVENUE
AUBURN, MA 02801
SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HANOVER, MA 02339
EDWIN P. MAHAFF, INC.
ELECTRICAL
72 SHARP STREET
HUNTINGTON, MA 02043
LYR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BLDG.
LYNNFIELD, MA 02040
COSWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER, MA 01602
HAYMOORE ASSOCIATES, INC.
CIVIL
102 SHUMWAY AVENUE
BOSTON, MA 02208

ISSUED FOR CONSTRUCTION	5/22/96
REVISED ISSUED FOR GMP	5/29/96
ISSUED FOR GMP	10/14/96
no. revision date	

ROOM FINISH
PLAN AND
INTERIOR DETAILS

Job no.: 96028
Scale: AS NOTED
Drawn: KAK File: 0088A008
Checked: ZEB Date: 10-28-96

A9.02



NEW FACILITY
CANTON, MA

Cutler
Design

40 Bedford Street
P.O. Box 2000
Beverly, MA
01915-0200

508-251-7700
FAX 508-251-4400

JOHNSON & SCHWAB ENGINEERING, INC.
STRUCTURAL

4 FAITH AVENUE
AUBURN, MA 01501

SOUTH SHORE ENGINEERING TEAM
MECHANICAL

720 WASHINGTON STREET
HANOVER, MA 02339

EDWIN P. MAHARDIAN, INC.
ELECTRICAL

72 SHARP STREET
HUNTINGTON, MA 01443

DVR CORPORATION
PLUMBING

7 KIMBALL AVENUE, BLDG. D
LYNNFIELD, MA 01940

COOSEWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION

22 CANTERBURY STREET
WORCESTER, MA 01602

HIMMELREICH ASSOCIATES, INC.
CIVIL

82 SHAWMUT AVENUE
BOSTON, MA 02108

USED FOR CONSTRUCTION

revision date

EQUIPMENT
PLAN

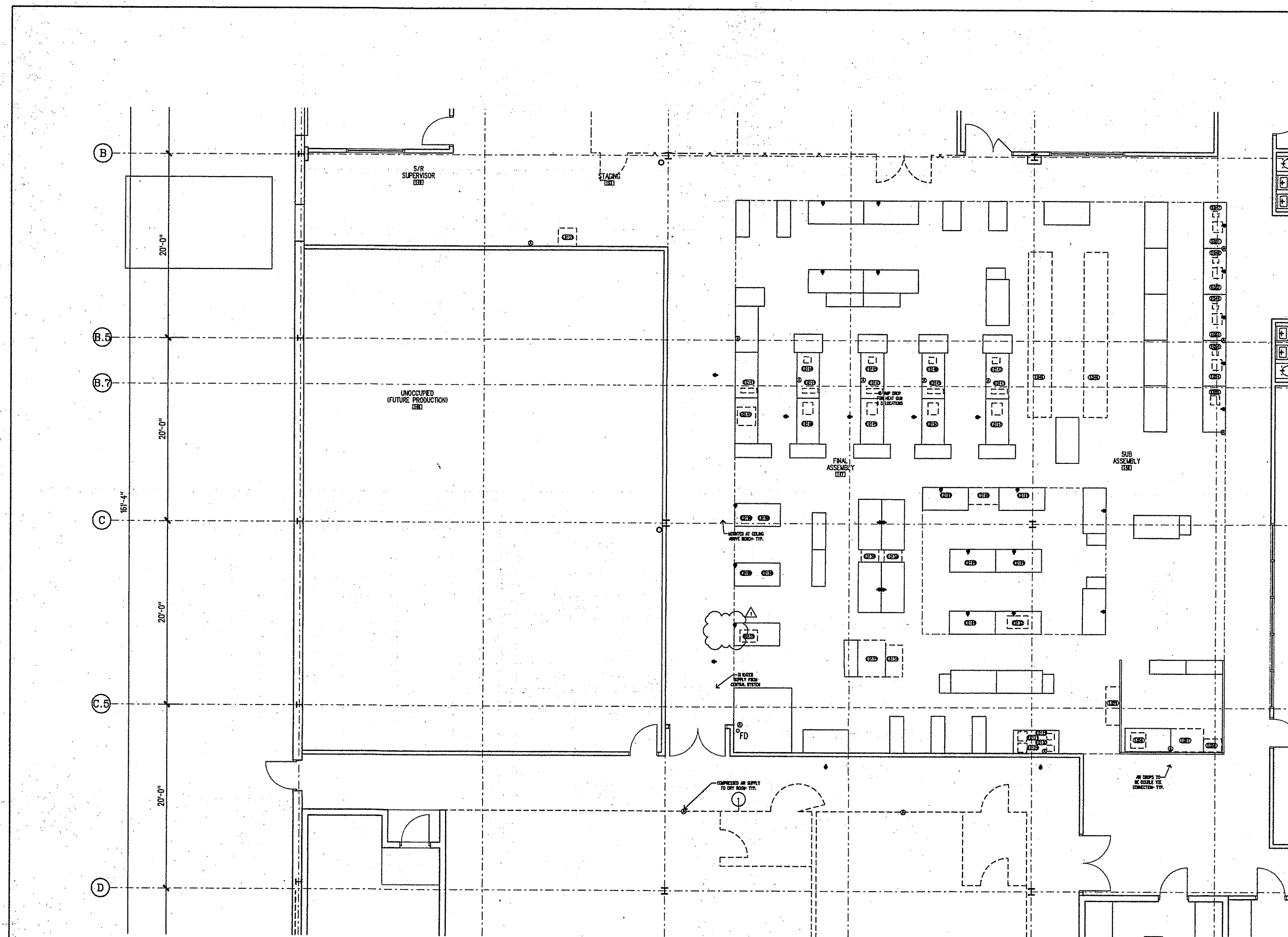
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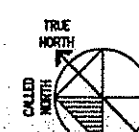
drawn: KAK file: 0088001

checked: ZKB date: 12-18-96

X2.01



1 PRODUCTION ROOM EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"





Cutler

D e s i g n

JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FAITH AVENUE
ALFRED, MA 01921

SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HANOVER, MA 02339

EDWIN P. MAHARD, INC.
ELECTRICAL
72 SHARP STREET
HUNSHAM, MA 02043

LYR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BLD.D
LYNNFIELD, MA 01940

COBSWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER MA 01610

HOWMOORE ASSOCIATES, INC.
CIVIL
112 SHAWMUT AVENUE
DORSET MA 01922

[illegible]

	ISSUED FOR CONSTRUCTION	12/
NO.	REVISION	DATE

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PLANS

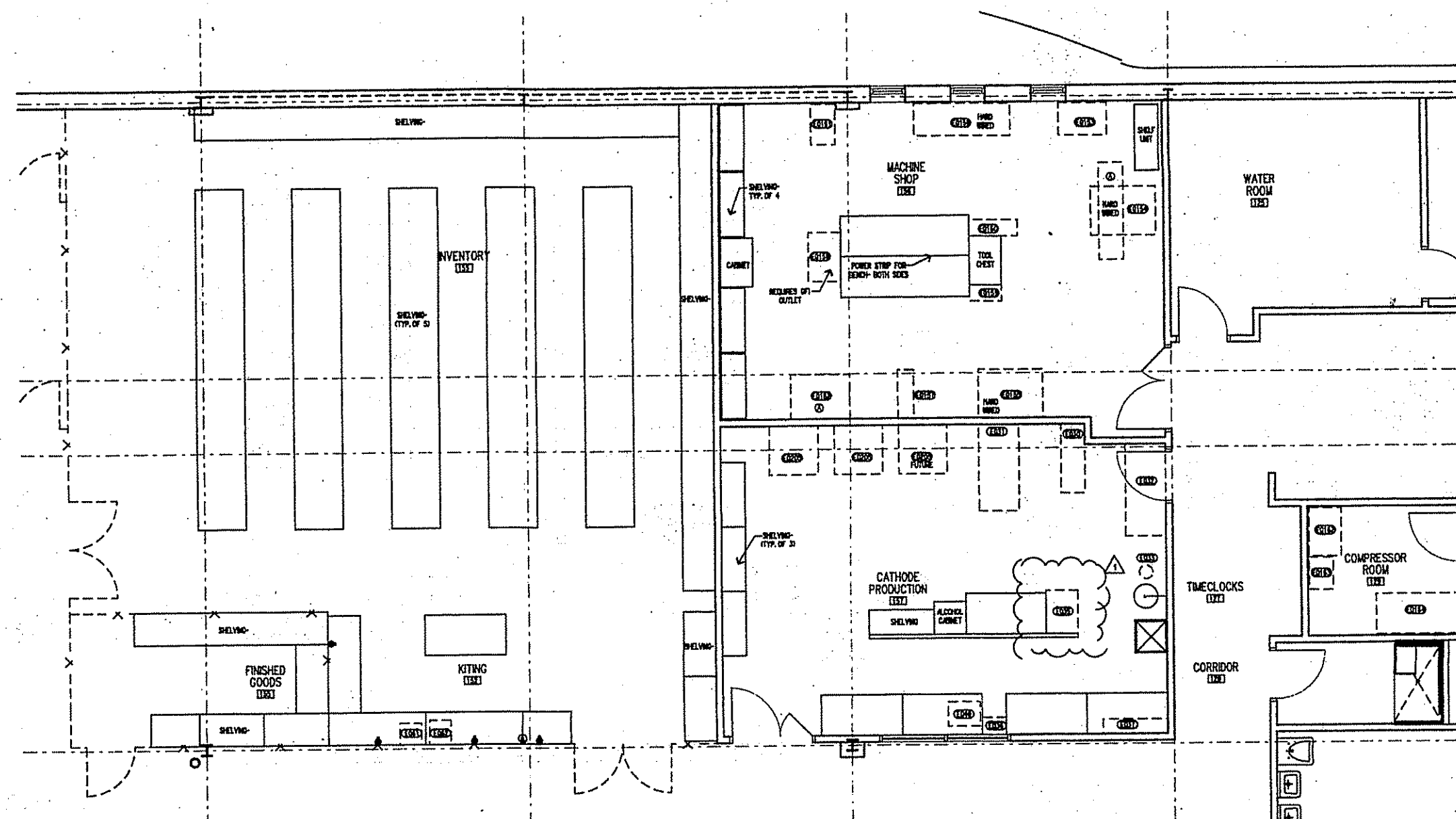
1. *Journal of the American Medical Association*, 1990; 263: 1033-1036.

job no. : 96028
scale : $\frac{1}{4}'' = 1'-0''$

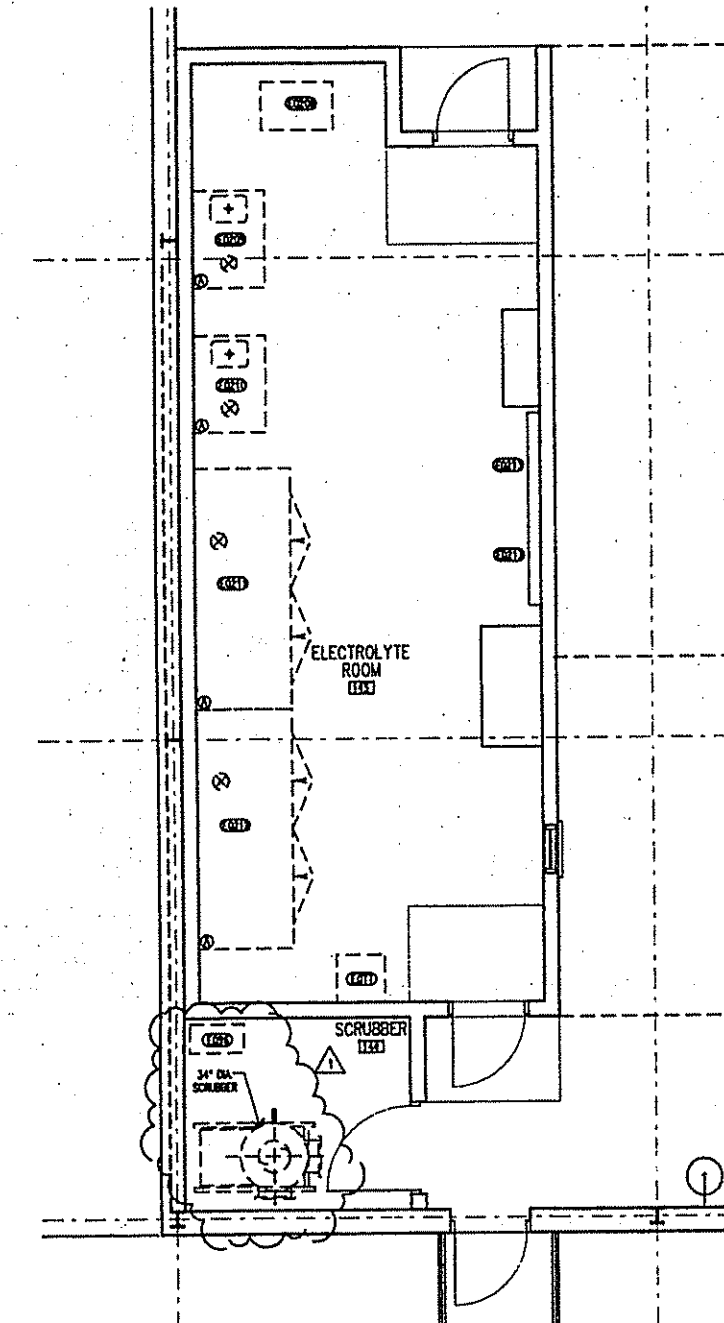
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checked : JKS	date : 12-18-

X2.0

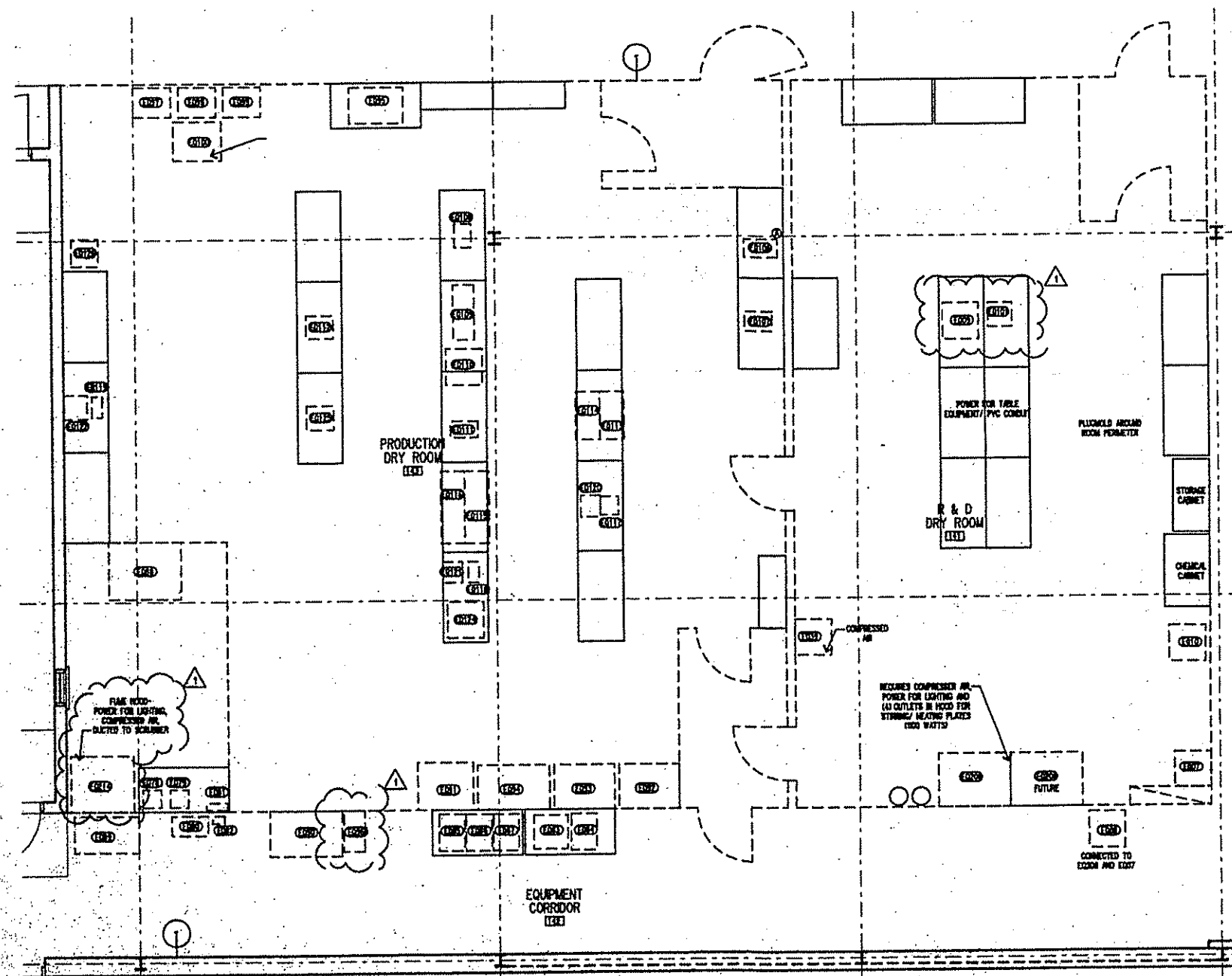
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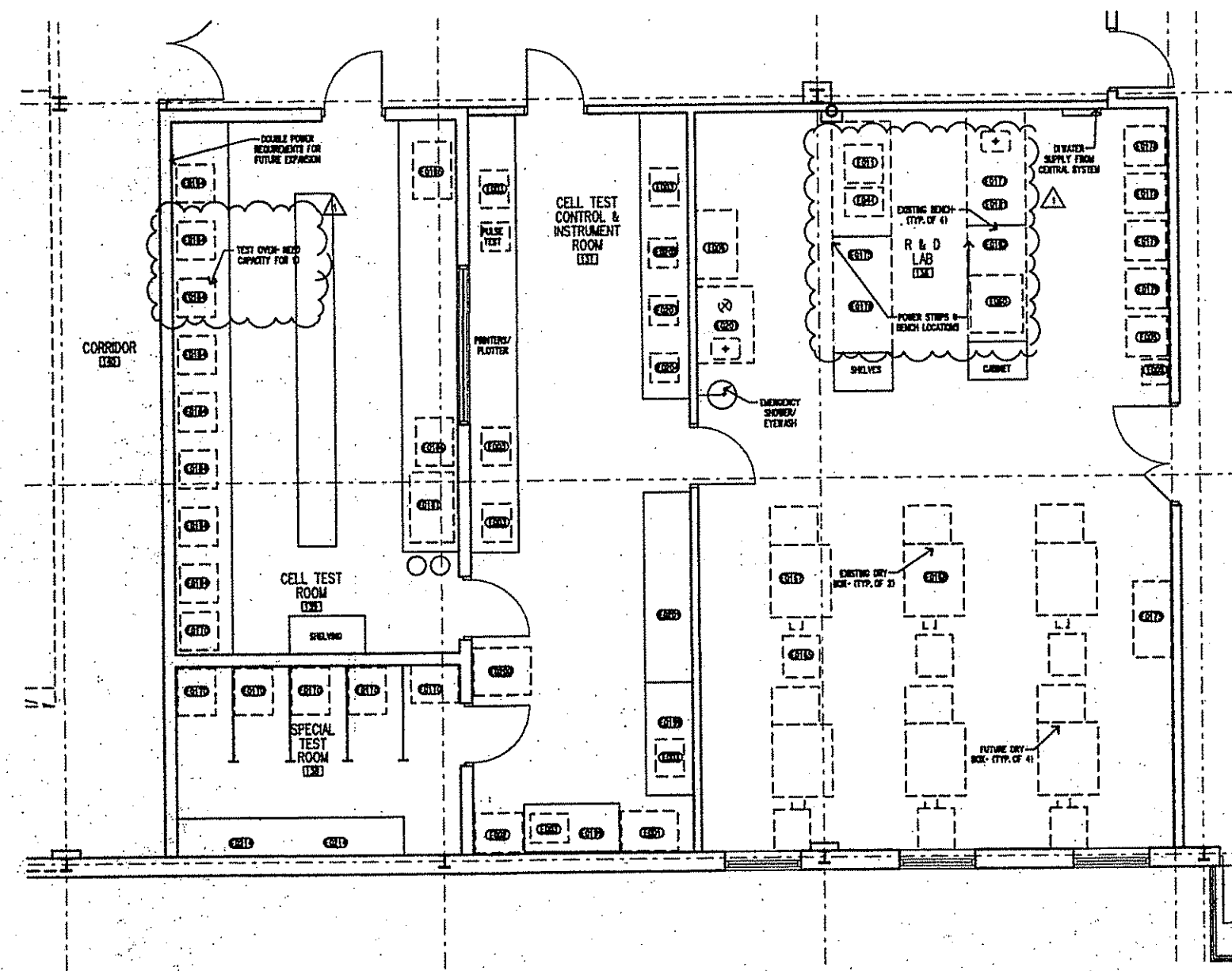
3 EQUIPMENT PLAN
SCALE: 1/2" = 1'-0"



2 EQUIPMENT PLAN
SCALE 1/4" = 1'-0"



4 EQUIPMENT PLAN



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



Cutler

D e s i g n

45 Round Road
P.O. Box 1340
Boulder, MI
313-752-0043

546 752-7900
FAX 546 752-5400



INSON & STAMAN ENGINEERING, INC.
MECHANICAL/PLUMBING/FIRE PROTECTIO
4 FAITH AVENUE
AUBURN, MA 01501

SHEPARD ENGINEERING, INC.
ELECTRICAL
1308 CRAFTON STREET
WORCESTER, MA 01064

INSON & SHAMAM ENGINEERING, INC
STRUCTURAL
4 FAITH AVENUE
AUBURN, MA 01501

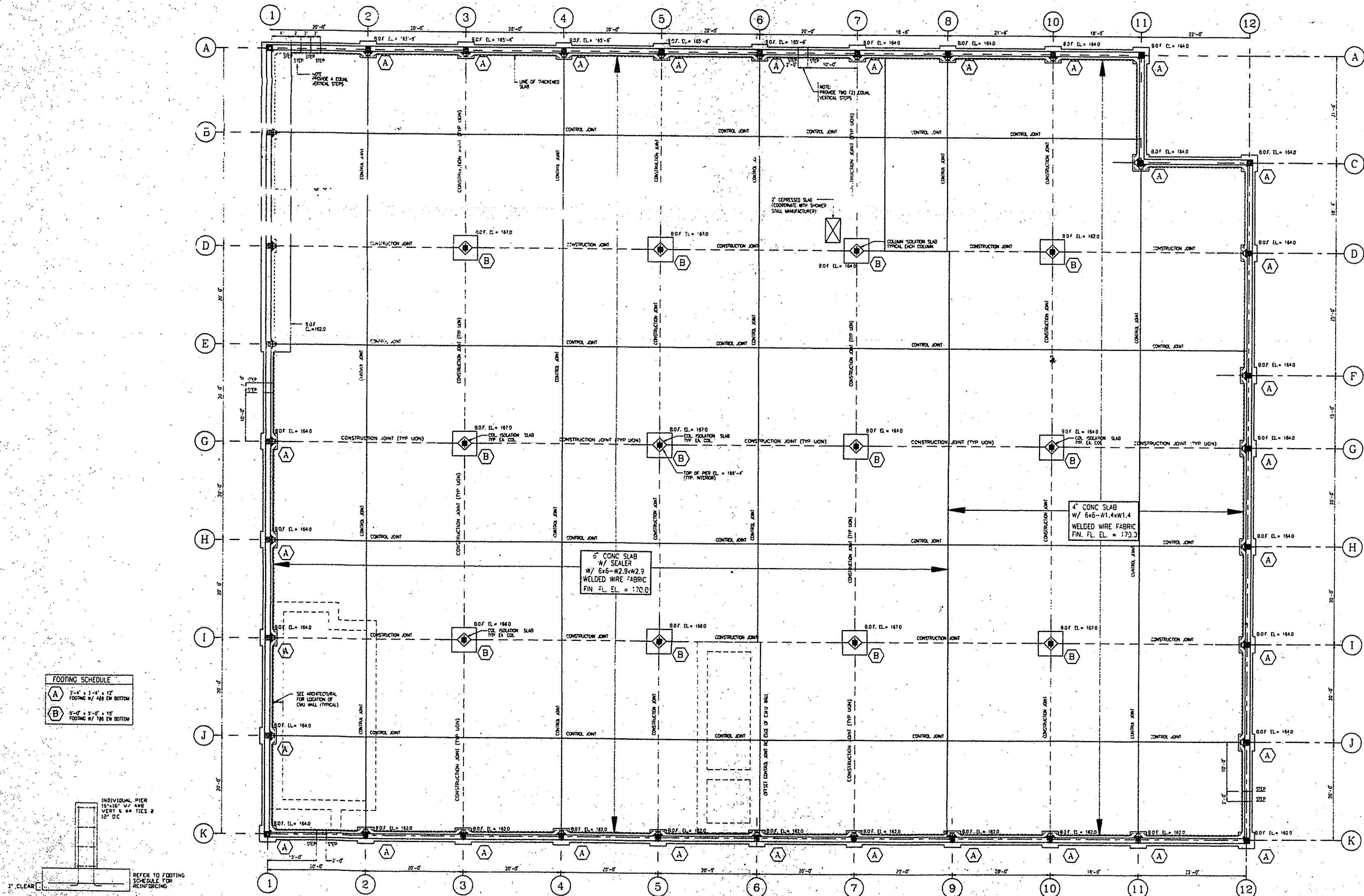
H.W. MOORE ASSOCIATES, INC.
CIVIL
112 SHAWMUT AVENUE
BOSTON, MA 02118

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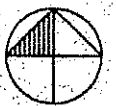
FOUNDATION
PLAN

no. : 96528	
: 1/8" = 1'-0"	
RAJ	file
RAJ	print date: (D-2)

100



TYPICAL INTERIOR FOOTING DETAIL





NEW FACILITIES

Cutler

1) Award Steel
 P.O. Box 1345
 Decatur, GA
 30030-1345

2) Award Steel
 P.O. Box 1345
 Decatur, GA
 30030-1345

NSON & SEAMAN ENGINEERING, INC.
MECHANICAL/PLUMBING/FIRE PROTECT.

SHEPHERD ENGINEERING, INC.
ELECTRICAL
1308 CLIFTON STREET
WORCESTER, MA 01604

NSON & SEAMAN ENGINEERING, INC.
 STRUCTURAL
 4 FAITH AVENUE
 AUBURN, MA 01501

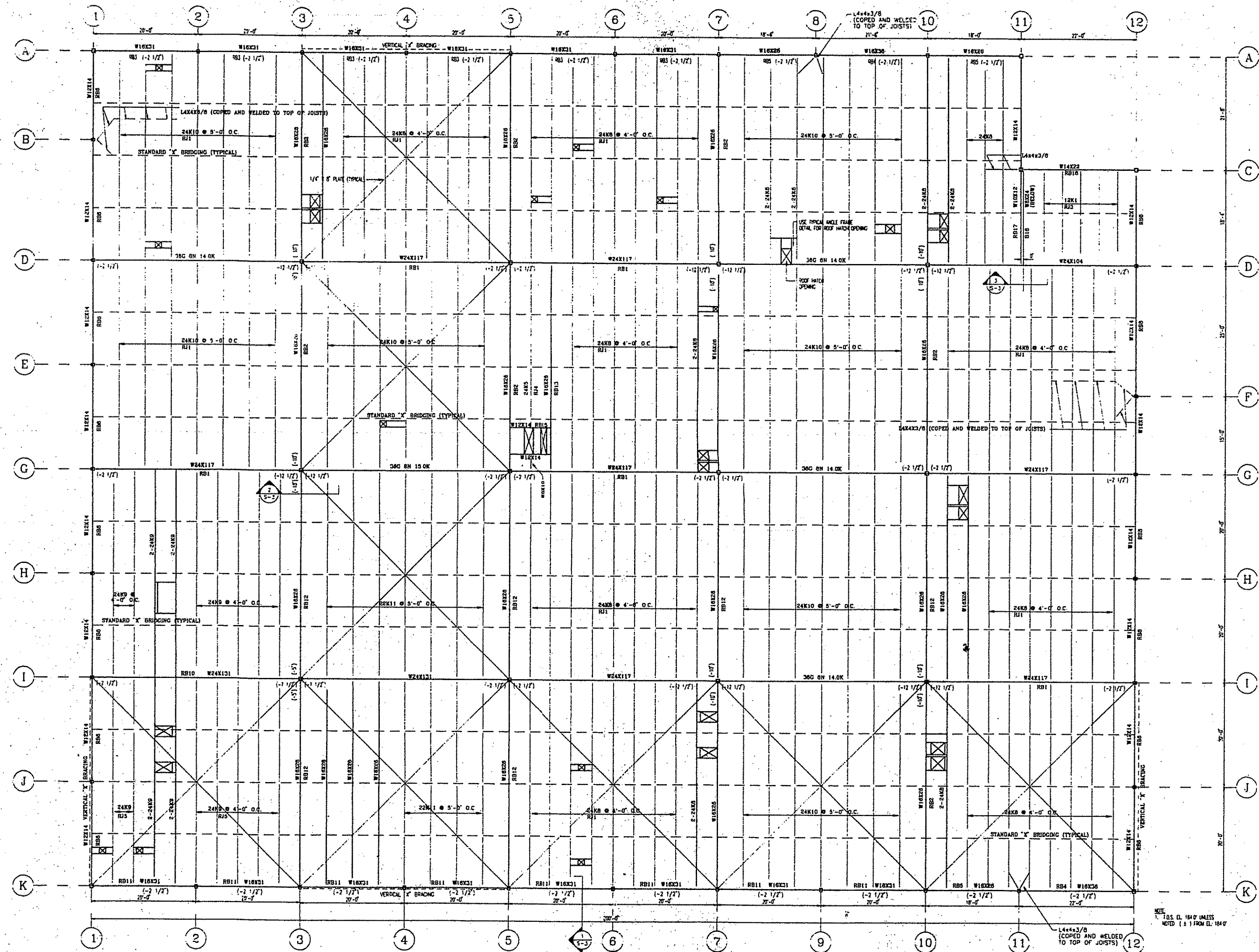
H.W. MOORE ASSOCIATES, INC.
CIVIL
112. SHAWMUT AVENUE
BOSTON, MA 02118

[illegible]

ROOF FRAMING
PLAN

no. : 98028	
1/8" = 1'-0"	
RAJ	file :
RAJ	print date: 10-29

8-1



NOTE:

1. THE STEEL FABRICATOR SHALL PROVIDE A CONNECTION AT THE BOTTOM OF THE JOIST GIRDERS TO THE COLUMNS SO AS NOT TO CONNECT THE BOTTOM CHORD RIGIDLY BUT PROVIDE A SLIP JOINT TO KEEP THE BOTTOM FROM "KICKING OUT"
2. EXHAUST FAN FRAME LOCATIONS SHOWN ARE NOT COORDINATED WITH THE MECHANICAL CONTRACTOR

ANCHOR BOLT SHALL BE NOTIFIED IF DETAILS NEED TO BE ADJUSTED DUE TO FIELD CONDITIONS.

THE FOLLOWING MATERIALS LEADS WERE USED IN THE DESIGN OF THE STRUCTURE ACCORDING TO THE MASSACHUSETTS STATE BUILDING CODE:

WIND - AS/AMSS STATE BUILDING CODE 21 PSF.

SEISMIC - AS/AMSS STATE BUILDING CODE SECTION 1113.1

ROOF SNOW LOAD - 25 PSF.

REINFORCED CONCRETE SHALL CONFORM TO THE ACI SPECIFICATION 318-89.

MINIMUM CONCRETE STRENGTH AT 28 DAYS - FC = 3500 PSI.

REINFORCING STEEL SHALL BE WELD BELLY STEEL CONFORMING TO ASTM SPECIFICATION A 615 GRADE 60.

REINFORCING STEEL FABRICATION SHALL BE IN ACCORDANCE WITH THE CRS CODE OF STANDARD PRACTICE.

REINFORCING STEEL SHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER UNLESS OTHERWISE NOTED:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3 IN.

FORMED CONCRETE SURFACES IN CONTACT WITH SOIL, WATER - 2 IN.

SPLICED BARS SHALL HAVE A MINIMUM LAP OF 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.

NO WEATHER SHALL BE FABRICATED UNTIL SHOP DRAWINGS ARE SUBMITTED AND APPROVED BY THE ENGINEER.

NO PERFORATION WILL BE GRANTED FOR ANY STRUCTURAL DRAWINGS TO BE REPRODUCED FOR USE AS SHOP DRAWINGS.

PROVIDE MASONRY UNIT (CMU) - FU = 1500 PSI.

CMU'S SUPPLIER SHALL PROVIDE TO THE ENGINEER ALL PRODUCT AND DESIGN DATA PERTAINING TO CMU'S. SUPPLIER SHALL CERTIFY THAT THE CMU'S CONFORMS TO ASTM C 90.

STEEL SHALL COMPLY WITH ASTM C 270 - TYPE IV GROUT SHALL COMPLY WITH ASTM C 476.

NOTE: CURIAL STEEL SHAPES SHALL CONFORM TO ASTM A588 REQUIREMENTS.

FIELD CONNECTIONS USING WELDING OR HIGH TENSILE BOLTS SHALL BE COMPLETELY DETAILLED TO THE PARTICULAR DIRECTION DRAWING SHOWING THE LOCATION OF THE WELDMENT INVOLVED.

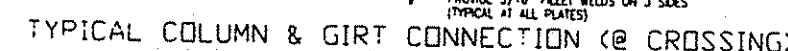
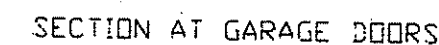
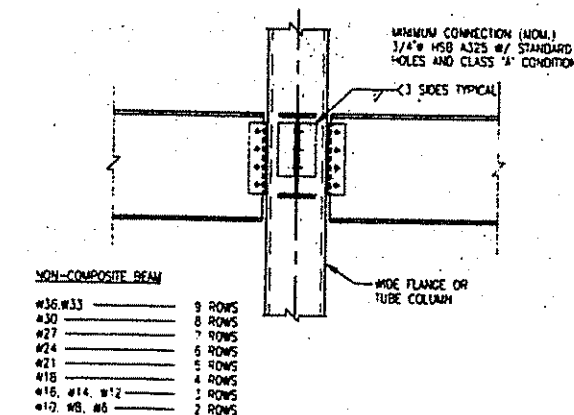
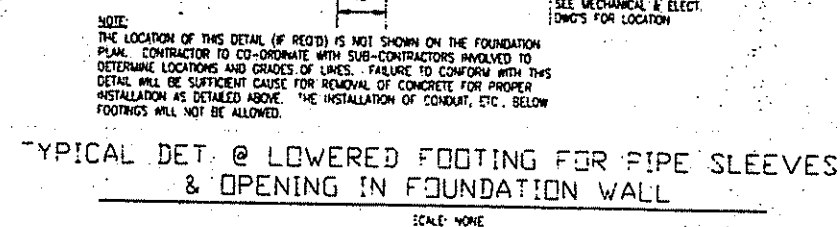
ALL BOLTS TO BE 3/4" DIAMETER A193MS HIGH STRENGTH BOLTS ALL NUTS TO BE 12/16" UNLESS OTHERWISE NOTED.

ALL BOLTS TO BE 1/2" DIAMETER A193MS HIGH STRENGTH BOLTS SHALL BE CERTIFIED AS SUCH BY THE MANUFACTURER AND ORIGIN. CERTIFICATION MUST ACCOMPANY FIRST SUBMITTAL.

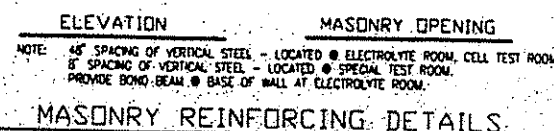
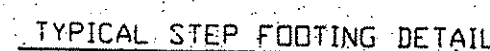
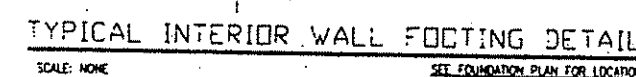
UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF 80% METAL PRIMER OR EQUIVALENT COAT TO BE OBT.

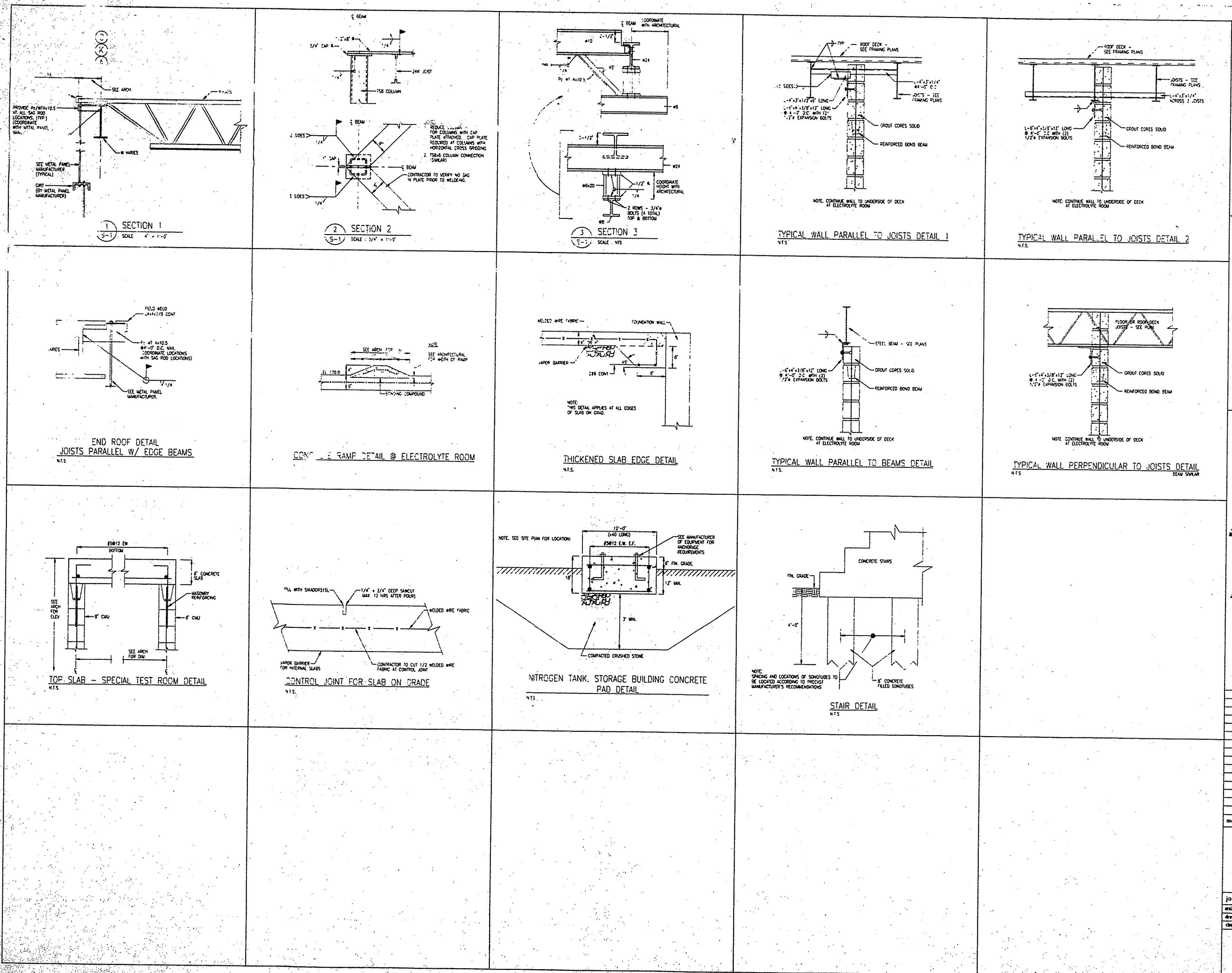
ALL WELDS TO BE 1/8" MINIMUM WELD SIZE IS NOT PERMITTED FOR THE WELTHY CONNECTION.

ALL FABRICATION SHALL PROVIDE SETTING PLATE (SAME SIZE AS WELDED BASE PLATE) FOR ALL STEEL CONNECTIONS.



COLUMN SCHEDULE





**BATTERY
ENGINEERING, INC.**
CANTON, MA

NEW FACILITY

Cutler
Design

43 Forest Street
P.O. Box 104
Needham, MA
01945-0104
Tel: 617-452-1000
Fax: 617-452-1001

JOHNSON & SEAMAN ENGINEERING, INC.
MECHANICAL/ELECTRICAL/PLUMBING/HAZARDOUS WASTE
4 FAITH AVENUE
AUBURN, MA 01501

SHEPPARD ENGINEERING, INC.
ELECTRICAL
1500 CRAFTON STREET
WORCESTER, MA 01604

JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FAITH AVENUE
AUBURN, MA 01501

H.W. MOORE ASSOCIATES, INC.
CIVIL
112 SHAWMUT AVENUE
BOSTON, MA 02118

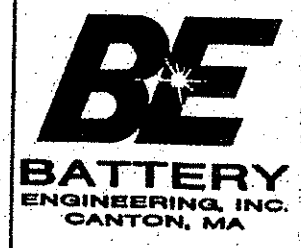
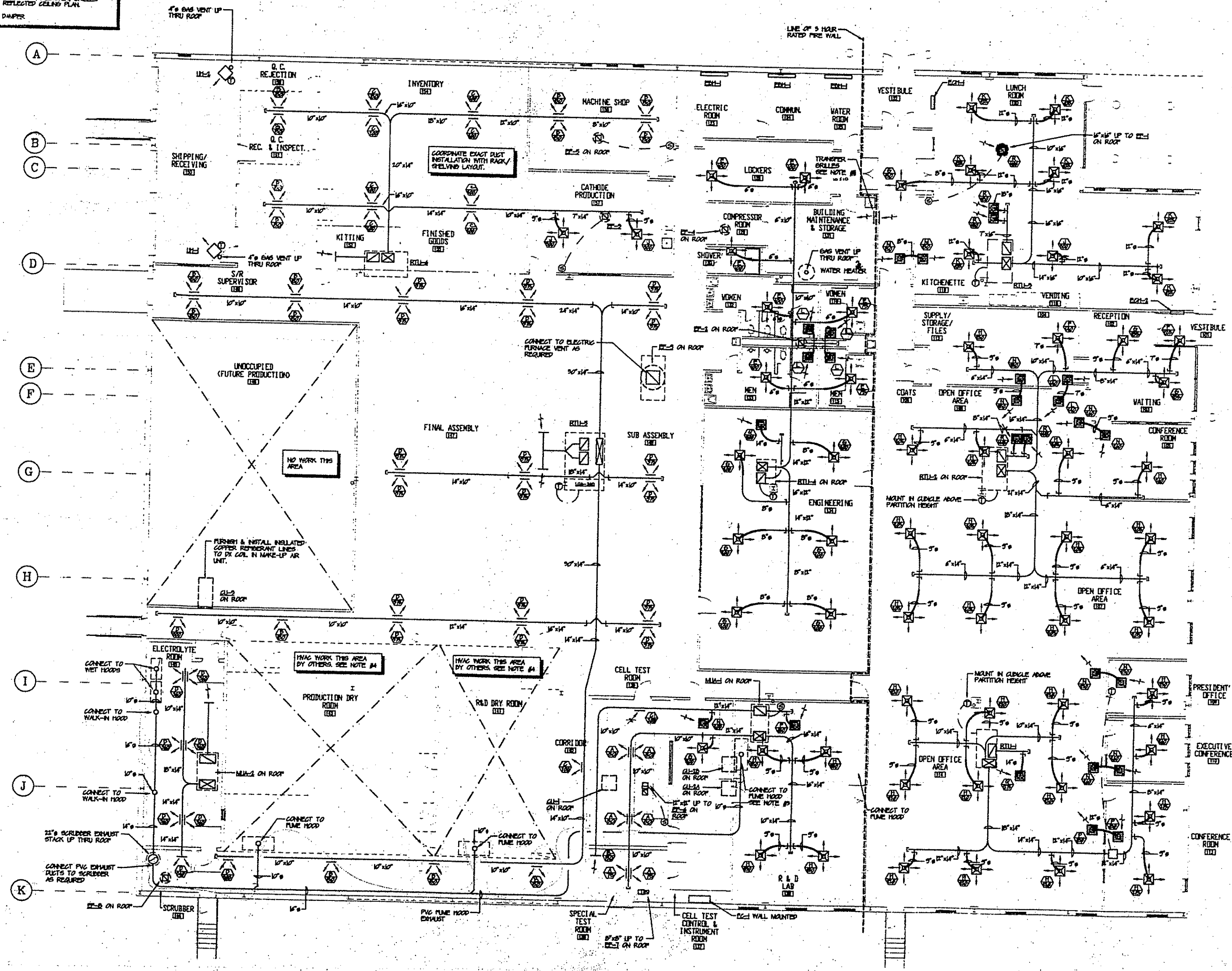
NO.	REVISION	DATE
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2		
3		
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STRUCTURAL
DETAILS

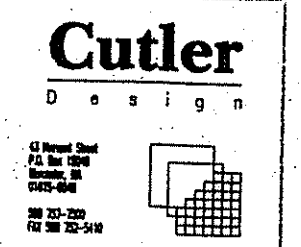
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drawn: RAJ
checked: RAJ
print date: 10-97

S-3

- NOTES:
1. REFER TO DRAWING H-2 FOR ALL SCHEDULES AND DETAILS.
 2. REFER TO HVAC SPECIFICATIONS SECTION 3500 FOR EXTENT OF WORK.
 3. ALL DUCTWORK SHOWN IS CLEAR AIR SPACE. REFER TO SPECIFICATIONS FOR ACoustIC INSULATION INTERNAL LINER AND INSULATION WHERE REQUIRED.
 4. EXHAUST HOOD AND BOOTH THESE AREAS FURNISHED BY BATTERY ENGINEERING INSTALLED BY HVAC CONTRACTOR THIS EXHAUST DUCTWORK BY HVAC CONTRACTOR.
 5. FURNISH AND INSTALL 5 HOUR FIRE DAMPERS AT DUCT PENETRATIONS IN WALL AND CEILING AT EXHAUST PROOF SPECIAL TEST ROOM.
 6. HVAC CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS WITHIN ALL ROOFTOP AND MAKE UP AIR DUCTS SUPPLY DUCTWORK OVER 2000 CFM. COORDINATE WITH ELECT. CONTR.
 7. ELECTRIC SHOWERED AND WALL HEATERS FURNISHED BY HVAC CONTR. WIRING BY ELECT. CONTR.
 8. FURNISH AND INSTALL ALL INSULATED PIPING FOR SPLIT SYSTEMS.
 9. FURNISH AND INSTALL TRANSFER GRILLES FOR COMBUSTION AIR FOR DOMESTIC WATER HEATER WITHIN BUILDING MAINTENANCE ROOM.
 10. EXACT LOCATION OF ALL CEILING MOUNTED DIFFUSERS, REGISTER, GRILLES SHALL BE DETERMINED BY ARCHITECTURAL REFLECTED CEILING PLAN.
 11. FURNISH AND INSTALL 1/2 HOUR RATED FIRE DAMPER.



NEW FACILITY
CANTON, MA

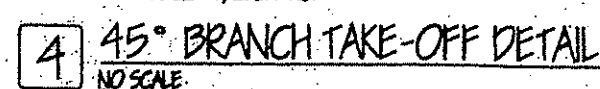


SOUTH SHORE ENGINEERING TEAM
MECHANICAL ENGINEERS
710 WASHINGTON STREET
HANOVER, MA 02339

HVAC PLAN

Job no. : 86028
Scale : 1/8"=1'-0"
Drawn : GMP
Checked : CJP/JS
Date : 1-7-97

H-1



SEE SPECIFICATIONS FOR OPTIONS

1. SEE SPECIFICATIONS FOR OPTIONS

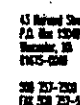
SEE SPECIFICATIONS FOR OPTIONS

1 SEE SPECIFICATIONS FOR OPTION

1. FURNISH WITH WHITE FINISH, OPPOSED BLADE DANGER, TR. SQUARE TO ROUND TRANSITION.
2. FURNISH WITH WHITE FINISH, MINIMUM 8" DEEP SQUARE TO ROUND TRANSITION PAINT INTERIOR FLAT BLACK.
3. FURNISH WITH WHITE FINISH

1. TURNER UNIT WITH: ROOF CURB, BACKRAFT DAMPER, UNIT MOUNTED DISCONNECT SWITCH

EGH	MARKEL NITONE	GASBAT EGG	ETN-10	W/ SELF CONTAIN THERM
-----	---------------	------------	--------	-----------------------



**SOUTH SHORE ENGINEERING TEAM
MECHANICAL ENGINEERS
720 WASHINGTON STREET
HANOVER, MA 02339**

HVAC SCHEDULES AND DETAILS

job no. : 96028	
scale : AS MUYD	
drawn : GMP	file :
checked : CJS/28	date : 1-7-97



NEW FACILITY
CANTON, MA

Cutler
Design

65 Harvard Street
P.O. Box 1504
Beverly, MA
01915-0104
978-251-1000
FAX 978-251-1001
JOHNSON & SEAWAY ENGINEERING, INC.
STRUCTURAL
4 FATH AVENUE
AUBURN, MA 05081
SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HANOVER, MA 02339
EDWIN P. NAHARD, INC.
ELECTRICAL
72 SHARP STREET
HIGHLAND, MA 02343
LVR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BUILD
DORCHESTER, MA 02140
COSWELL SPRINKLER COMPANY, INC.
FIRE PROTECTION
22 CANTERBURY STREET
WORCESTER, MA 01601
HAWKINS ASSOCIATES, INC.
CIVIL
82 SUMMIT AVENUE
BOSTON, MA 02118

no. revision date

1/68/97
NEW GAS DRAWING
Relocated Meter.

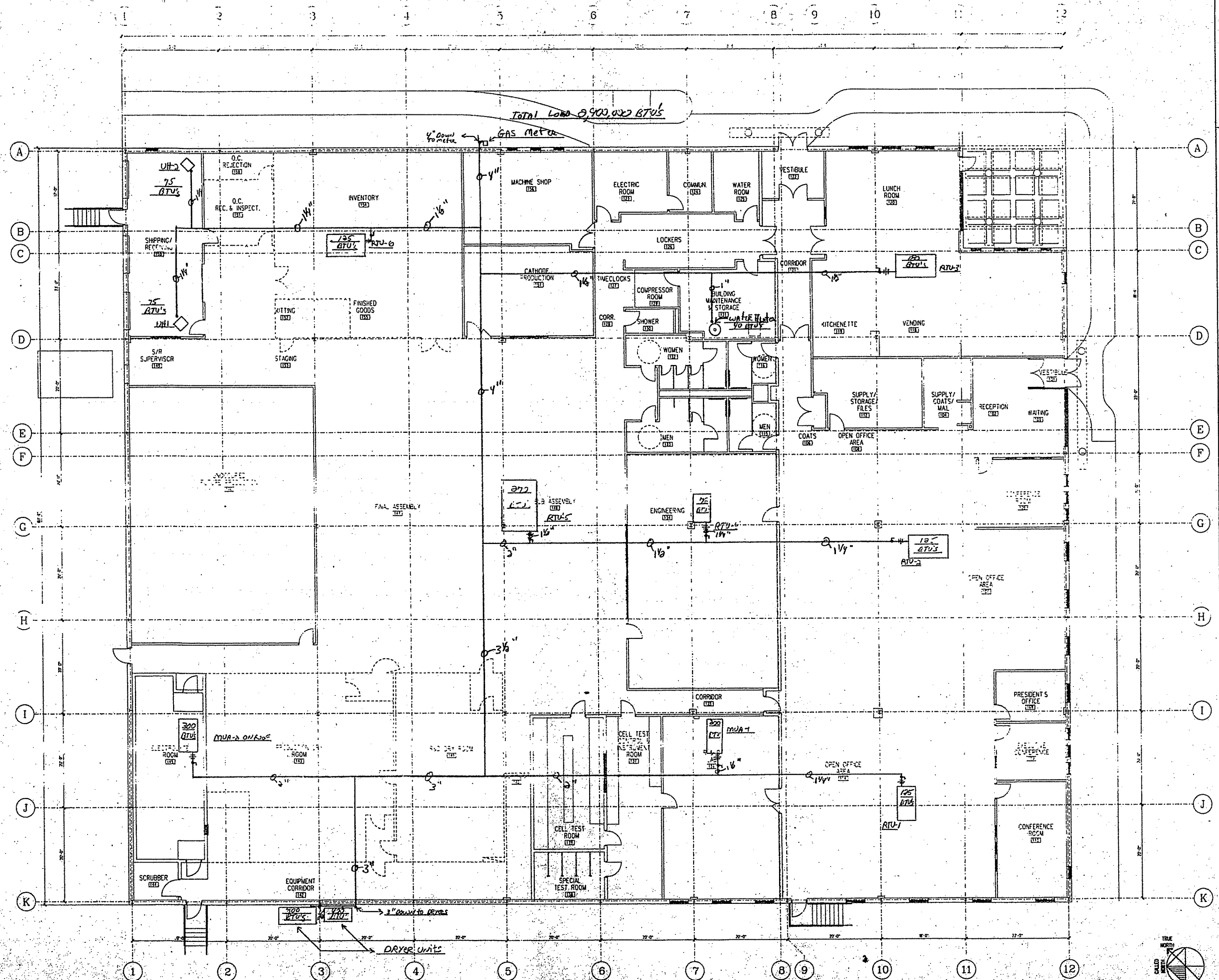
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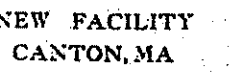
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drawn: title:

checked: date:

P-1





Cutler

D e s i g n

33 Karyote Street
P.O. Box 15049
Worcester, MA
01615-0049

ANSON & SEAWAY ENGINEERING, INC.
STRUCTURAL
45014 AVENUE
NEWTON, MA 02459

5TH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET

EDWIN P. MAHARD, INC.
ELECTRONICS

ELECTRICAL
72 SHARP STREET
HINSHAM, VA 22043

LVR CORPORATION
PLUMBING
7 KIMBALL AVENUE, ELIZABETH, N.J.

WHEELER, JAMES
WHEELER, JAMES

22 CANTERBURY STREET
HORCESTER, MA 01501

H.W. MOORE ASSOCIATES, INC.
CIVIL
112 SHAWMUT AVENUE
DARTMOUTH, MASS. 01928

BOSTON, MA 02118	

[illegible]

The diagram illustrates the experimental design as a sequence of four main components: 'Stimulus presentation', 'Response', 'Feedback', and 'Inter-trial interval'. These components are arranged in a horizontal flow, with 'Stimulus presentation' leading to 'Response', which leads to 'Feedback', which leads to 'Inter-trial interval'. This sequence is repeated for multiple trials, as indicated by the 'Start' and 'End' boxes at the beginning and end of the sequence. The components are enclosed in boxes, and the flow is indicated by arrows.

[illegible]

REVISION _____ date _____

Completed

COMPRESSED
A12

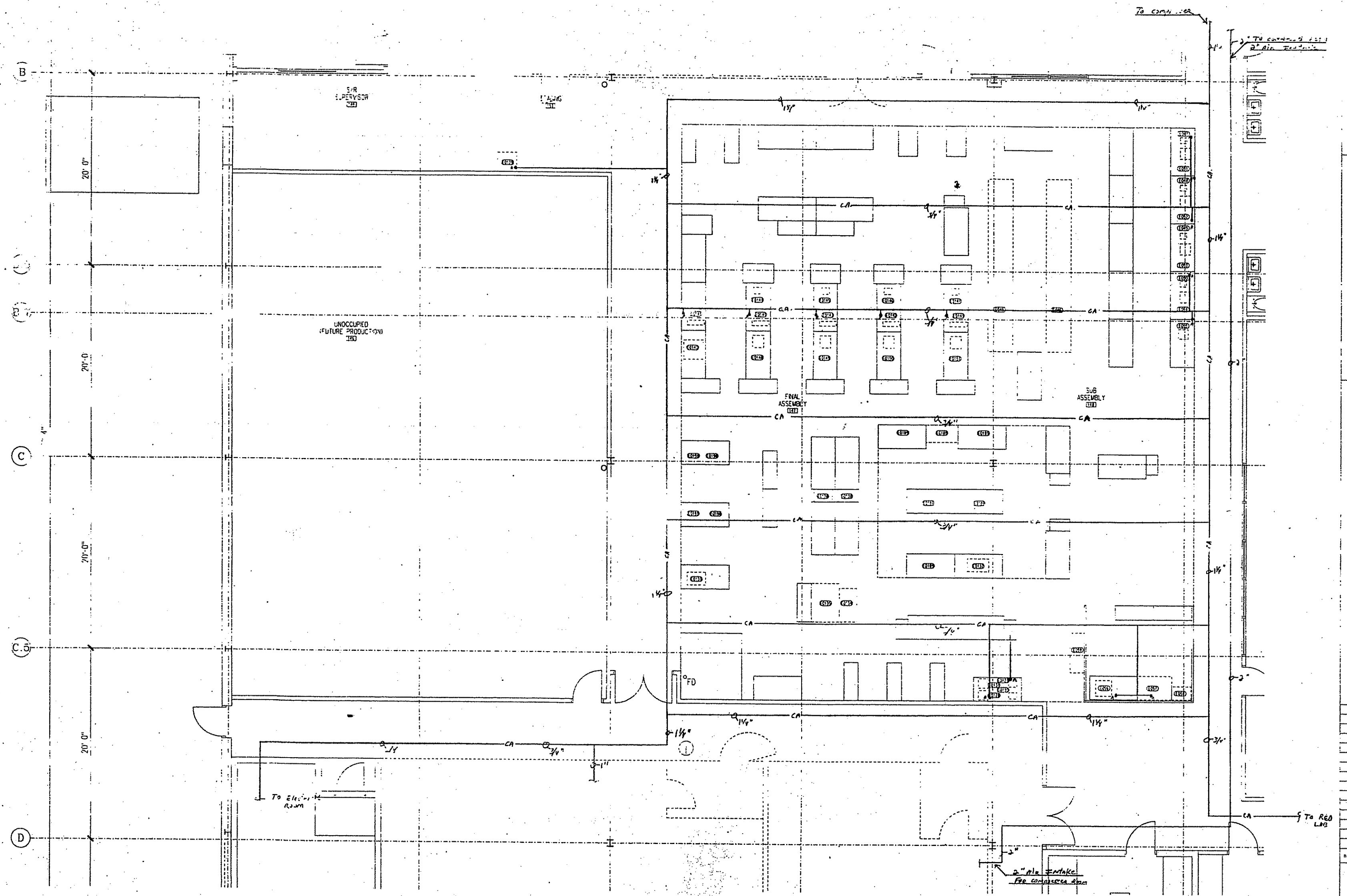
111K

no. 96028

file
date

03

P-3



1 PRODUCTION ROOM EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"



P-3



NEW FACILITY
CANTON, MA

Cutler
Design

43 Avenue Street
P.O. Box 15041
Beverly, MA
01915-0041
508-931-7000
100-100-0000

JOHNSON & SEAMAN ENGINEERING, INC.
STRUCTURAL
4 FATH AVENUE
BOSTON, MA 02101

SOUTH SHORE ENGINEERING TEAM
MECHANICAL
720 WASHINGTON STREET
HAWKERSVILLE, MA 02339

EDWIN P. MAHARD, INC.
ELECTRICAL
72 SHARP STREET
HINGHAM, MA 02043

LVR CORPORATION
PLUMBING
7 KIMBALL AVENUE, BLDG.
LYNNFIELD, MA 01940

COOKE & SPINALE COMPANY, INC.
FIRE PROTECTION
22 CHATSWORTH STREET
WORCESTER, MA 01602

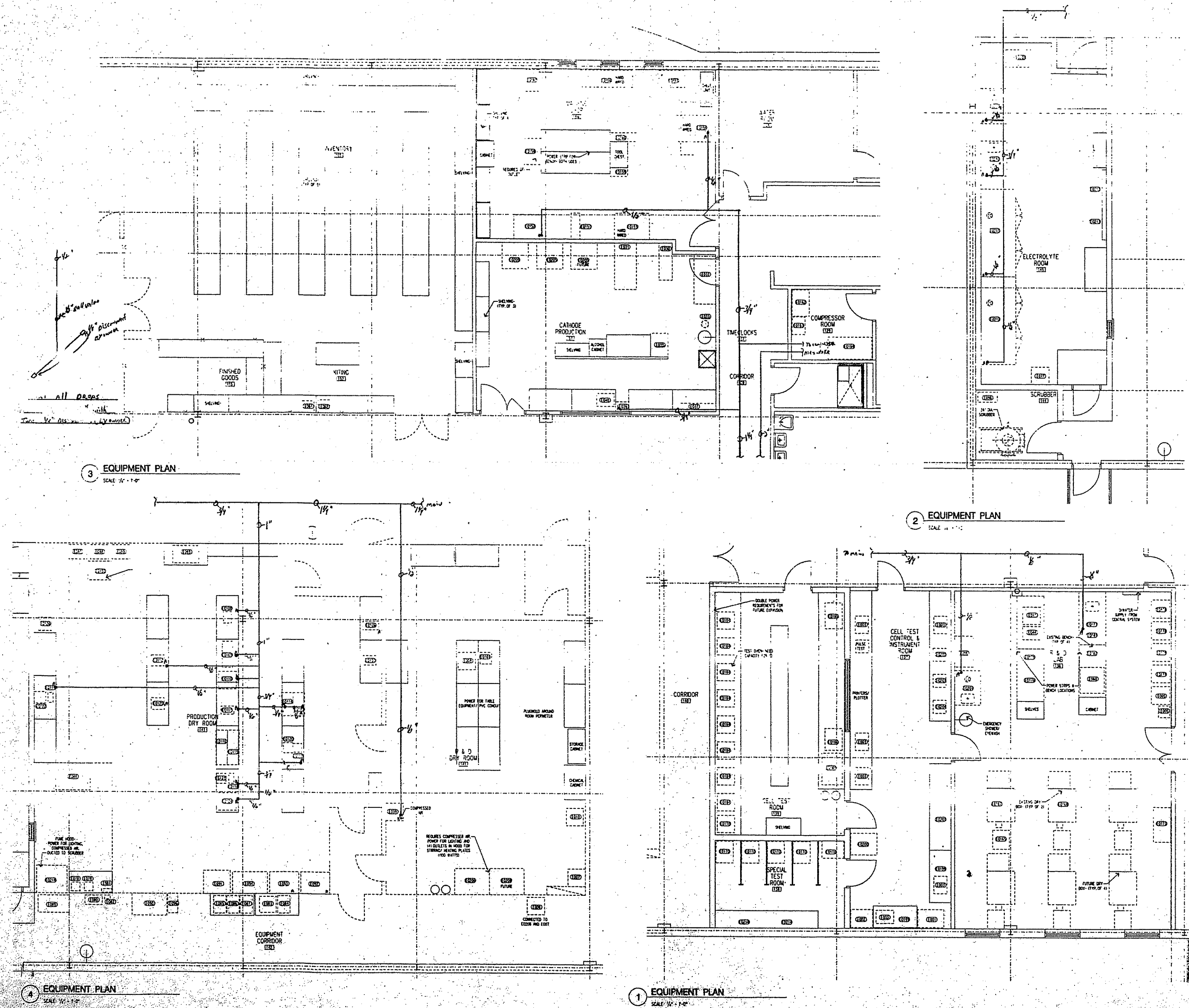
HINMOORE ASSOCIATES, INC.
CIVIL
102 SHAWMUT AVENUE
BOSTON, MA 02118

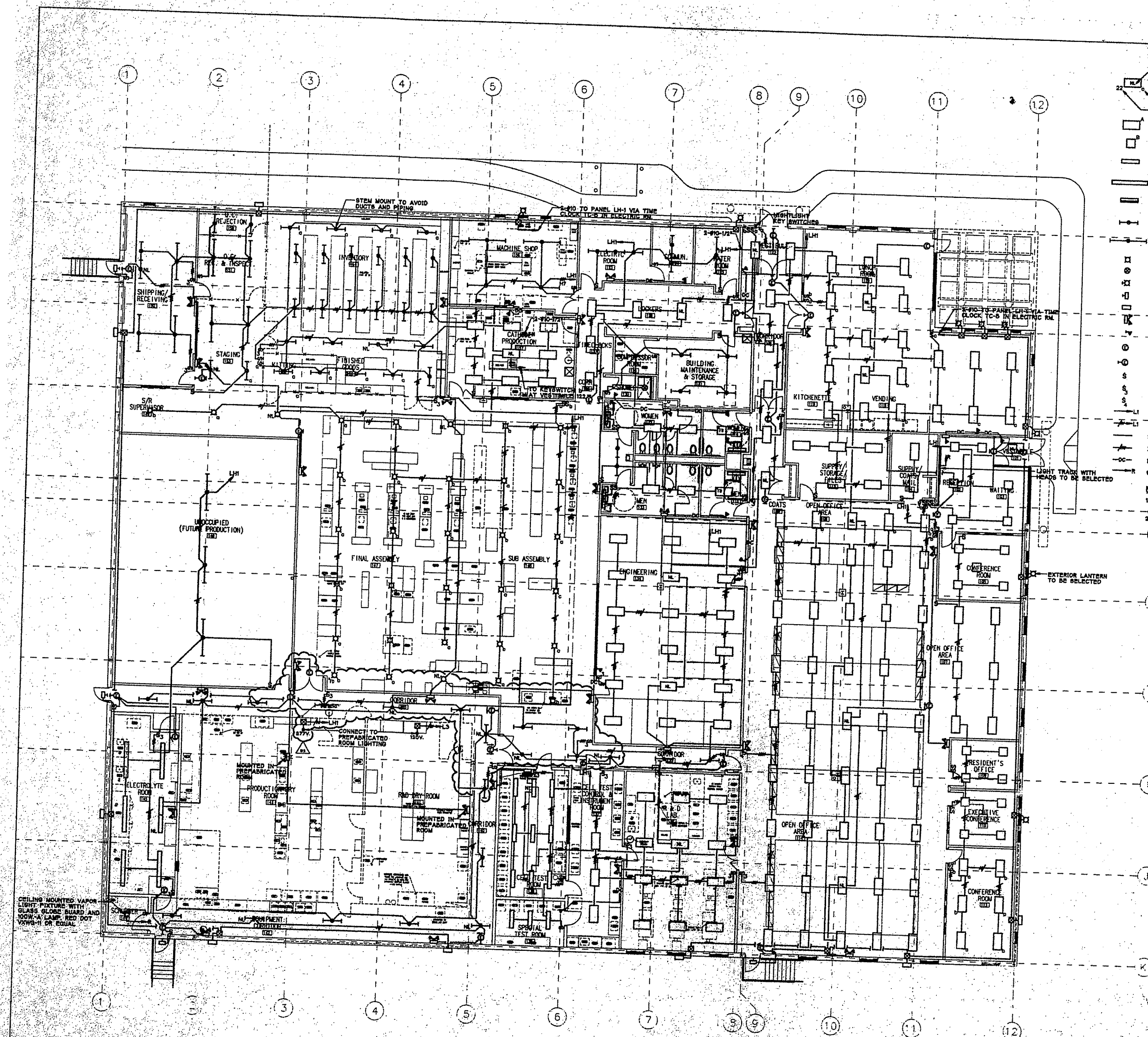
Compressed

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scale: 1/4" = 1'-0"
drawn: [blank]
checked: [blank] date: [blank]

P-1



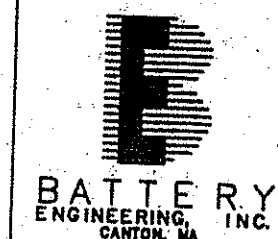


LIGHTING PLAN SYMBOL LIST

- NL INDICATES FIXTURE ON NIGHTLIGHT CIRCUIT (NLI)
- FIXTURE
- SWITCH CONTROL
- CIRCUIT NUMBER FIXTURE IS CONNECTED TO
- RECESSED 2x4' FLUORESCENT FIXTURE WITH 3-32W-T8 LAMPS AND ACRYLIC PRISMATIC 125 LENS AND 1-3 LAMP ELECTRONIC BALLAST
- RECESSED 2x4' FLUORESCENT FIXTURE WITH 2-32W-T8 LAMPS AND ACRYLIC PRISMATIC 125 LENS AND 1 ELECTRONIC BALLAST
- SURFACE MOUNTED 4'-0" FLUORESCENT FIXTURE WITH 2-32W-T8 LAMPS, 1-ELECTRONIC BALLAST, PLASTIC FRAME AND GASKETED ACRYLIC PRISMATIC 125 LENS
- SURFACE MOUNTED 8'-0" FLUORESCENT FIXTURE WITH 4-32W-T8 LAMPS AND 2-3 LAMP ELECTRONIC BALLASTS, PLASTIC FRAME AND GASKETED ACRYLIC PRISMATIC 125 LENS
- SURFACE WALL MOUNTED FLOURESCENT FIXTURE WITH 2-32W-T8 LAMP E.P.M. #04
- STEM OR CHAIN MOUNTED 4'-0" FLUORESCENT INDUSTRIAL REFLECTOR HOOD FIXTURE WITH 2-32W-T8 LAMPS AND 1-ELECTRONIC BALLAST
- STEM OR CHAIN MOUNTED 8'-0" FLUORESCENT INDUSTRIAL REFLECTOR HOOD FIXTURE WITH 4-32W-T8 LAMPS AND 2-3 LAMP ELECTRONIC BALLASTS
- STEM MOUNTED 175W. MH. LOW BAY FIXTURE
- RECESSED DOWNLIGHT WITH PC LAMP AND VAPORPROOF
- EXTERIOR WALL MOUNTED DECORATIVE FIXTURE WITH 2-8W. PL LAMPS
- EXTERIOR WALL MOUNTED FIXTURE OVER EXTERIOR EGRESS DOOR
- EXTERIOR WALLPACK FIXTURE WITH 250W. MH LAMP
- EMERGENCY LIGHTING BATTERY UNIT WITH TWO LAMPHEADS
- EMERGENCY SINGLE REMOTE BATTERY LAMPHEAD
- CEILING OR STEM MOUNTED EXIT SIGN WITH SELF-CONTAINED BATTERY BACK-UP
- WALL MOUNTED EXIT SIGN WITH SELF-CONTAINED BATTERY BACK-UP
- SINGLE POLE SWITCH
- THREE WAY SWITCH
- FOUR WAY SWITCH
- TO PANEL L1 ONE CIRCUIT 2-#12-1/2"
- TO PANEL L1 TWO CIRCUITS 3-#12-1/2"
- 2-#12-1/2" RUN
- INDICATES THE NUMBER OF #12 WIRES IN CONDUIT RUN
- EMERGENCY BATTERY CIRCUIT 2-#12-1/2"
- CONNECT TO RECEPTACLE CIRCUIT

NOTE:

1. ALL NIGHTLIGHT FIXTURES AND EXIT SIGNS CIRCUITS ARE WIRE THROUGHOUT
2. ALL OPEN LAMP FIXTURES TO HAVE SHATTER SHIELDS OVER FLUORESCENT TUBES



NEW FACILITY

Cutler
Design

40 Broad Street
P.O. Box 6000
Providence, RI
02902-6000
401-761-1000
401-761-6000

RIVERS
ELECTRICAL

275 Center Street, Unit One
Providence, Massachusetts 02902
(417) 767-1000
(417) 767-2100 Fax

EDWIN P. MAHARD INC.

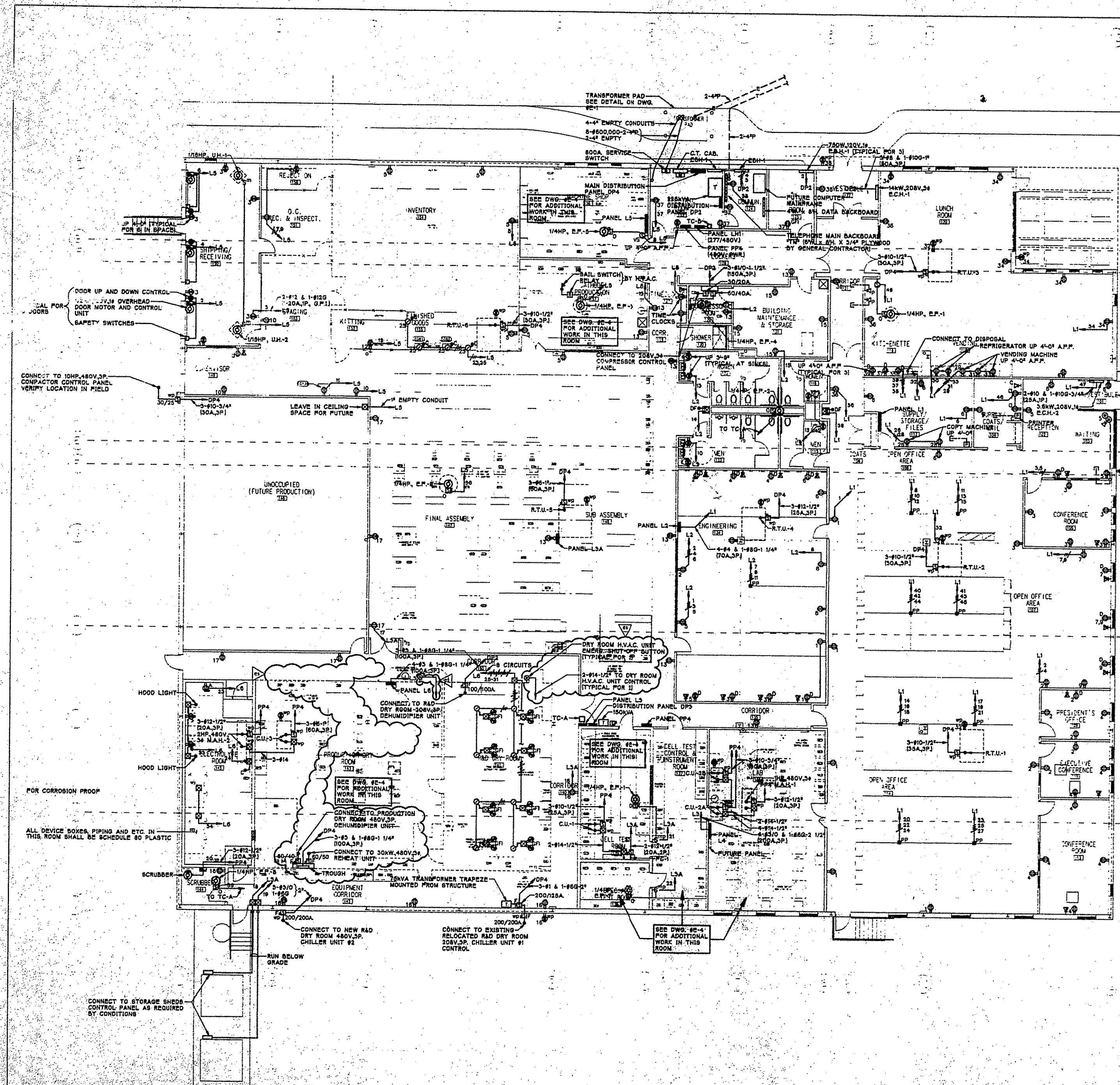
Regional Corporate Center
75 Cherry Street, Suite 1100
Providence, Massachusetts 02902
(417) 337-0075
(417) 337-0074 Fax

2. BUILDING NO. 1-1 2/4/97
3. BUILDING NO. 1-1
1. REVISION

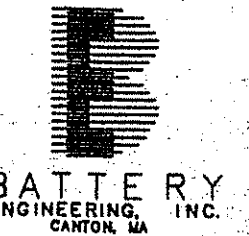
ELECTRIC
LIGHTING PLAN

Job No.: 200
Scale: 1/8"=1'-0"
Drawn by: C.A. P.H.: RUMBLE, INC.
Checked by: P.A.C. Date: 11/15/95





- RECEPTABLES, POWER AND LOW TENSION SYMBOL LIST**
- Ⓐ DUPLX RECEPTACLE, 1" INDICATES FURNISH WITH EQUIPMENT AND INSTALLED BY OTHERS, 1/2" INDICATES BRANCH CIRCUIT
 - Ⓒ DUPLX G.P.I. RECEPTACLE
 - Ⓓ DUPLX SURGE SUPPRESSOR RECEPTACLE
 - Ⓔ SINGLE PHASE RECEPTACLE
 - Ⓕ THREE PHASE RECEPTACLE 1" INDICATES FURNISH WITH EQUIPMENT AND INSTALLED BY OTHERS
 - Ⓖ DROP CORD OUTLET
 - Ⓗ RECESSED FLOOR OUTLET WITH RECESSED RECEPTACLE
 - Ⓘ RECESSED FLOOR OUTLET WITH DUPLX TELEPHONE
 - Ⓜ POWERPOLE FURNISHED BY OTHERS AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR, VERIFY LOCATION WITH ARCHITECT'S FINAL DRAWINGS
 - Ⓟ PLUGWOLD WITH OUTLETS 12" ON CENTER
 - Ⓡ JUNCTION BOX
 - Ⓢ RELAY AS REQUIRED
 - Ⓣ COMPUTER OR PRINTER OUTLET BOX UP 1-5" EXCEPT AS NOTED 1" INDICATES MOUNTED ABOVE COUNTERTOP
 - Ⓤ SAFETY TYPE KNIFE SWITCH, 1/2" INDICATES WEATHERPROOF, 1/4" INDICATES FUSED, 1/2" INDICATES SWITCH / FUSE SIZE, 1/4" INDICATES FURNISH WITH MOTOR
 - Ⓡ THERMOSTAT
 - Ⓢ THERMAL MOTOR STARTING SWITCH, 1/4" INDICATES WITH PILOT LIGHT
 - Ⓣ MOTOR
 - Ⓤ MOTOR CONTROL EQUIPMENT
 - Ⓡ OVERHEAD DOOR REMOTE STATION
 - Ⓢ TELEPHONE OUTLET 4" SQUARE
 - Ⓣ TELEPHONE AND DATA 4" SQUARE OUTLET BOX WITH SINGLE GANG COVER
- L5 TO LIGHTING PANEL L5, ONE CIRCUIT, 2-#12 AND 1-#120-1/2"
 L5 TO LIGHTING PANEL L5, TWO CIRCUITS, 3-#12 AND 1-#120-3/4"
 L5 TO LIGHTING PANEL L5, THREE CIRCUITS, 4-#12 AND 1-#120-3/4"
 INDICATES THE NUMBER OF #12 WIRES IN CONDUIT RUN



NEW FACILITY

Cutler
Design

400 North Street
P.O. Box 1000
Beverly, MA 01915
Tel: 781-235-1000
Fax: 781-235-1001

RIVERS
ELECTRICAL

278 Centre Street, Unit One
Beverly, Massachusetts 01915
(617) 787-2200
(617) 787-2122 Fax

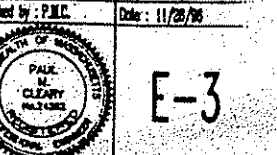
EDWIN P. MAHARD INC.

1200 Corporate Center
72 Sherry Street, Suite C-12
Beverly, Massachusetts 01915
(617) 237-0075
(617) 237-0074 Fax

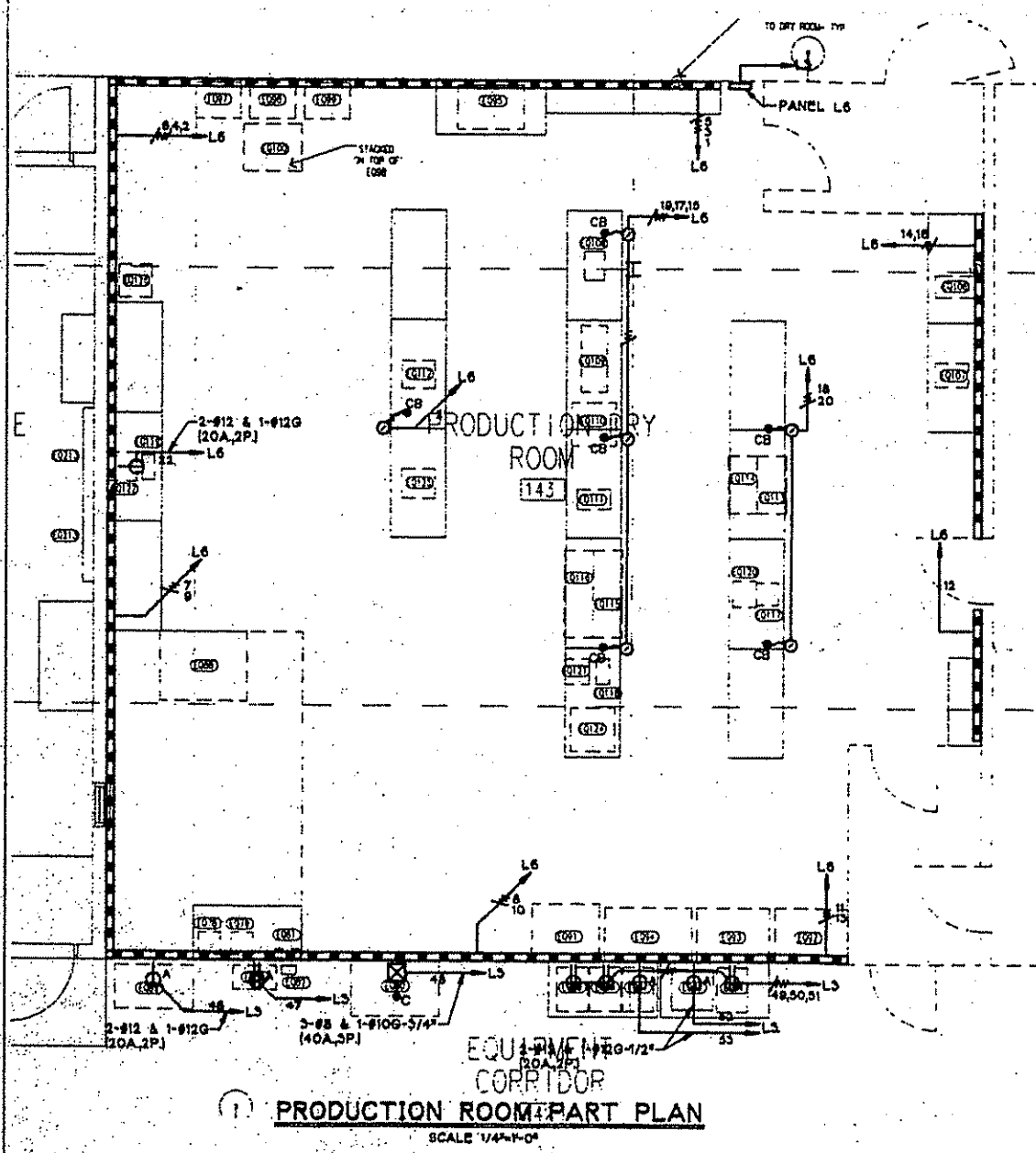
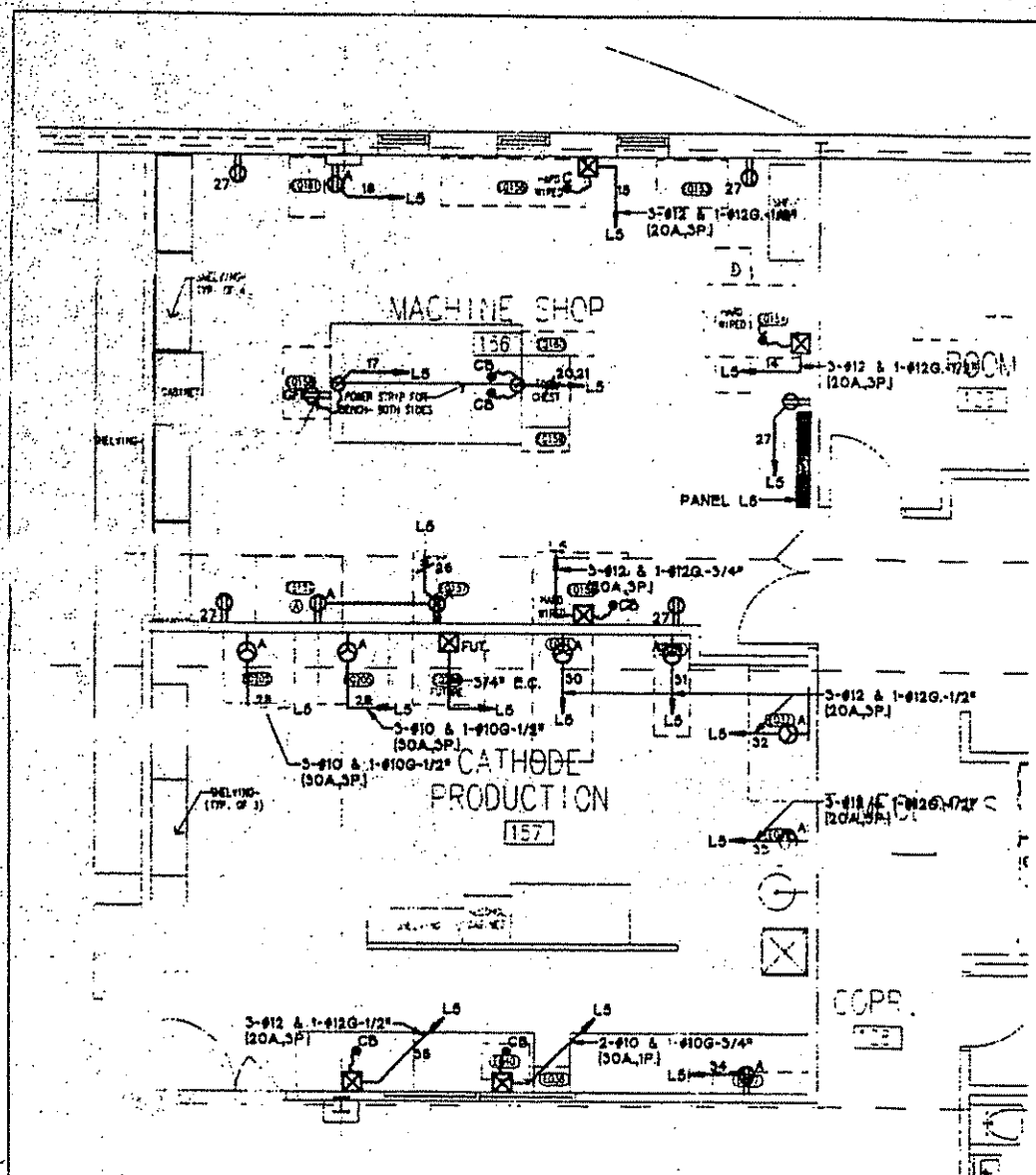
NO.	REVISION	DATE
1	REVISION	11/28/96
2	REVISION	11/28/96
3	REVISION	11/28/96

ELECTRIC
RECEPTABLES, POWER
AND LOW TENSION
PLAN

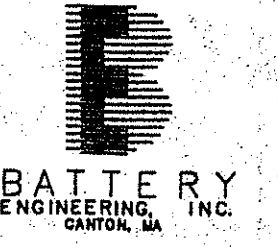
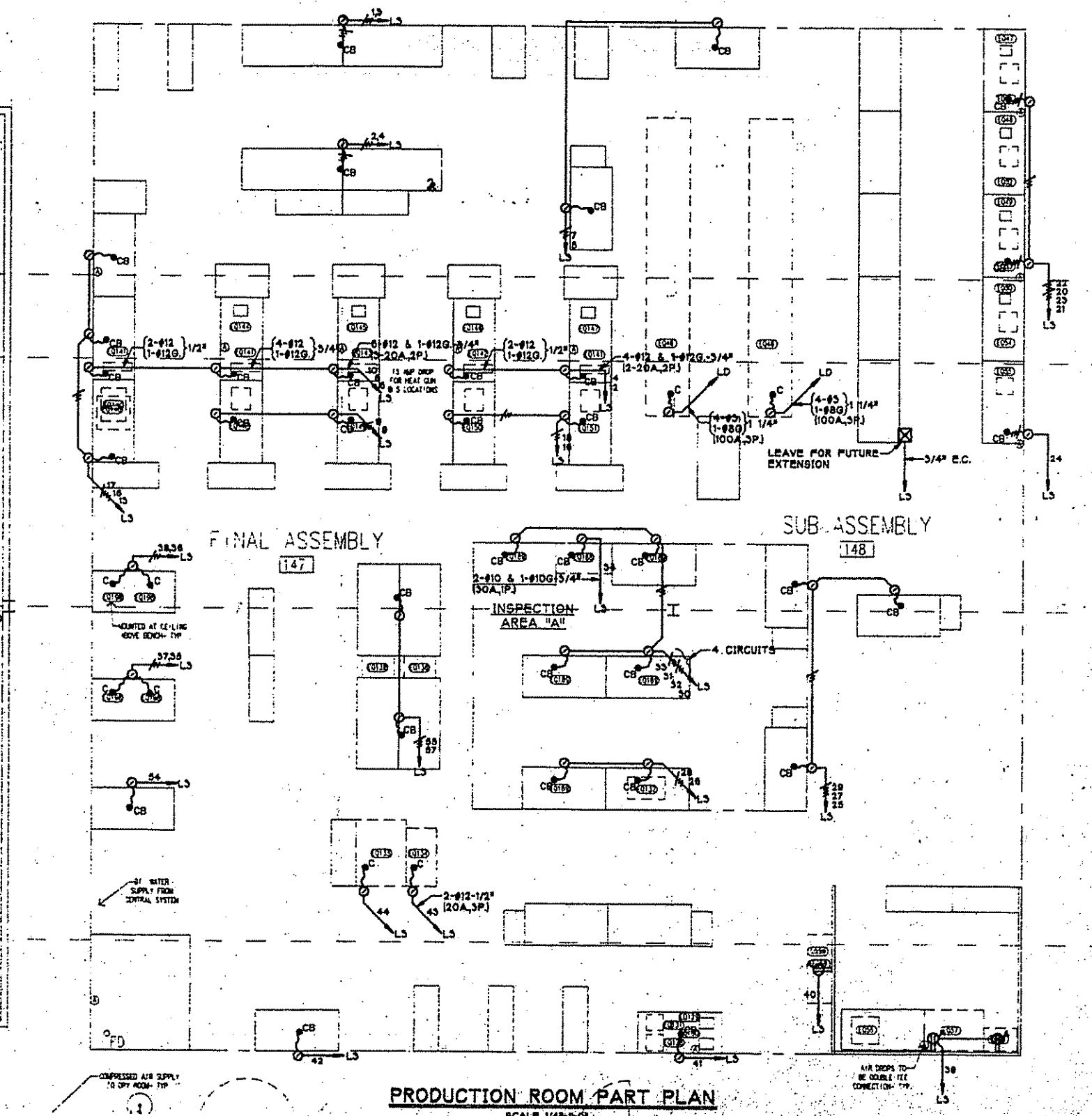
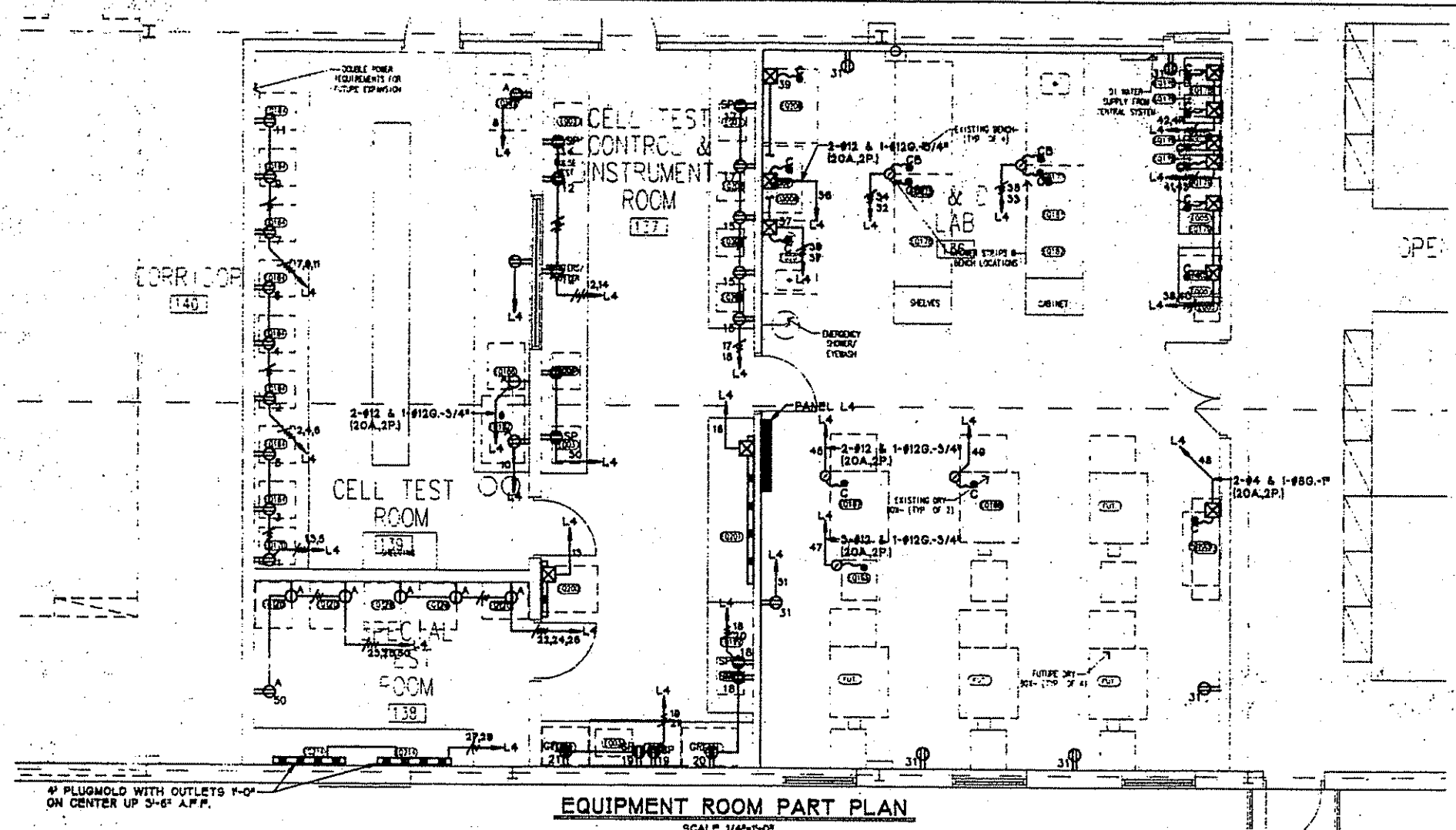
Job No: 200
Scale: 1/8"=1'-0"
Drawn by: J.A.P. File: 20001200
Checked by: P.M.C. Date: 11/28/96



E-3



- RECEPTABLES, POWER AND LOW TENSION SYMBOL LIST**
- ⊠ DUPLEX RECEPTACLE, "A" INDICATES FURNISH WITH EQUIPMENT AND INSTALLED BY OTHERS, "B" INDICATES BRANCH CIRCUIT
 - ⊠ DUPLEX SURGE SUPPRESSOR RECEPTACLE
 - ⊠ DUPLEX G.P.I. RECEPTACLE
 - ⊠ SINGLE PHASE RECEPTACLE
 - ⊠ THREE PHASE RECEPTACLE } "A" INDICATES FURNISHED WITH EQUIPMENT AND INSTALLED BY OTHERS
 - ⊠ DROP CORD OUTLET
 - ⊠ RECESSED FLOOR OUTLET WITH RECESSED RECEPTACLE
 - ⊠ RECESSED FLOOR OUTLET WITH DUPLEX TELEPHONE
 - ⊠ POWERPOLE FURNISHED BY OTHERS AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
 - ⊠ PLUGMOLD WITH OUTLETS 12" ON CENTER
 - ⊠ JUNCTION BOX
 - ⊠ RELAY AS REQUIRED
 - ⊠ COMPUTER OR PRINTER OUTLET BOX
 - ⊠ SAFETY TYPE KNIFE SWITCH, "W" INDICATES WEATHERPROOF, "F" INDICATES FUSED, "S" INDICATES SWITCH / FUSE SIZE, "M" INDICATES FURNISH WITH MOTOR
 - ⊠ THERMOSTAT
 - ⊠ THERMAL MOTOR STARTING SWITCH, "P" INDICATES WITH PILOT LIGHT
 - ⊠ MOTOR
 - ⊠ MOTOR CONTROL EQUIPMENT
 - ⊠ OVERHEAD DOOR REMOTE STATION
 - ⊠ TELEPHONE OUTLET 4" SQUARE
 - ⊠ TELEPHONE AND DATA 4" SQUARE OUTLET BOX WITH SINGLE GANG COVER
- L5 TO LIGHTING PANEL L5, ONE CIRCUIT, 3-#12 AND 1-#10-3/4"
 L5 TO LIGHTING PANEL L5, TWO CIRCUITS, 3-#12 AND 1-#10-3/4"
 L5 TO LIGHTING PANEL L5, THREE CIRCUITS, 4-#12 AND 1-#10-3/4"
 INDICATES THE NUMBER OF #12 WIRES IN CONDUIT RUN



NEW FACILITY

Cutler Design

40 Broad Street
P.O. Box 1000
Waltham, MA
02154
TEL 508-251-1000
FAX 508-251-1000

RIVERS ELECTRICAL

878 Centre Street, Unit One
Waltham, Massachusetts 02154
(617) 797-2000
(617) 797-2122 Fax

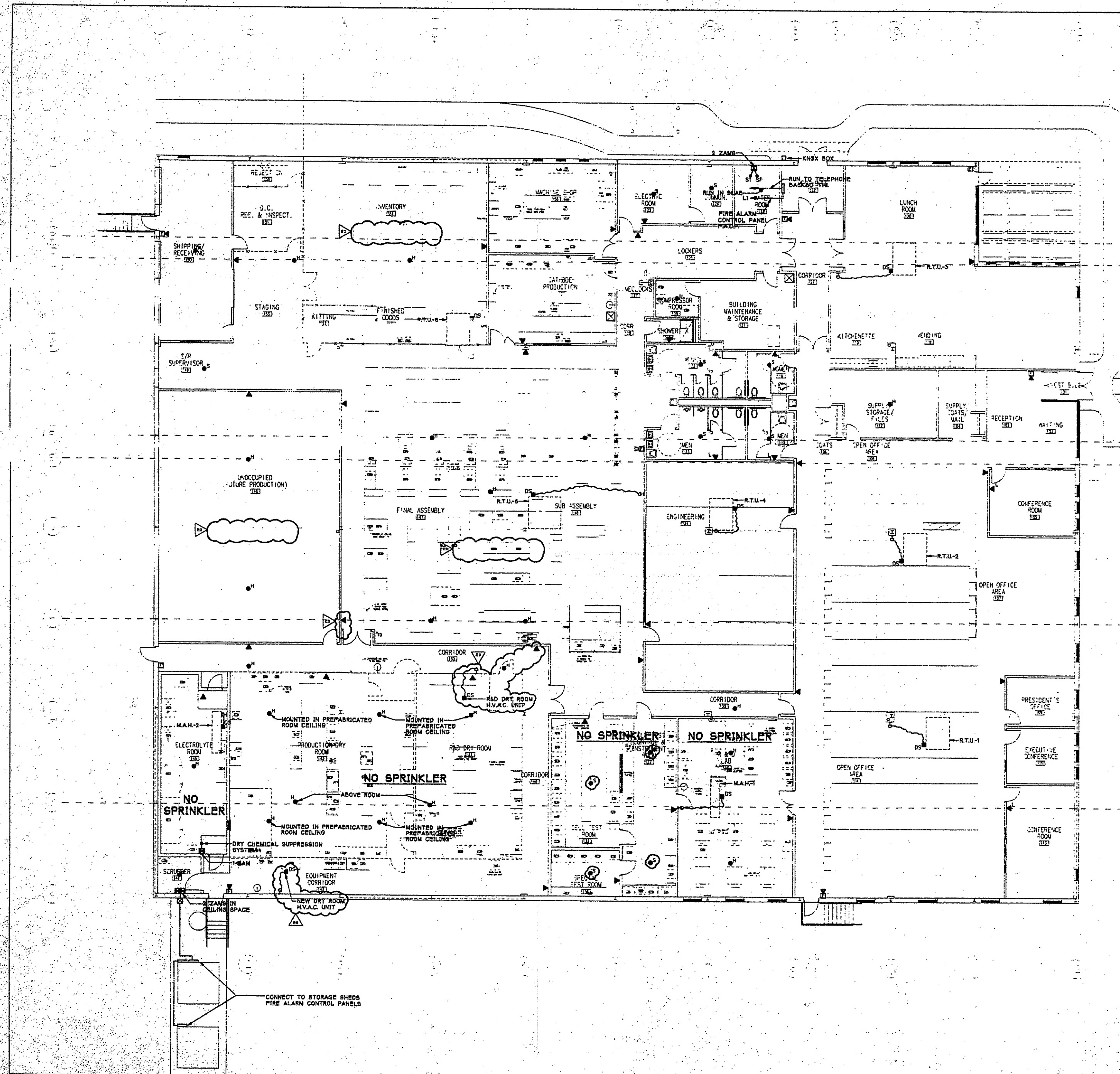
EDWIN P. MAHARD INC.

Wingham Corporate Center
72 Shattuck Street, Suite C-12
Wingham, Massachusetts 02154
(617) 827-0970
(617) 827-0974 Fax

ELECTRIC PART PLANS

Job No: 2008
Scale: 1/4"=1'-0"
Drawn by: JLP
Checked by: PJC
Date: 11/28/08





FIRE ALARM SYMBOLS LIST

- 1) FLUSH FIRE ALARM ADDRESSABLE PULL STATION UP 4'-0" A.P.P.
- 2) FLUSH FIRE ALARM AUDIBLE HORN AND A.D.A. VISUAL LIGHT UP 6'-8" A.P.P. TO BOTTOM OF UNIT
- 3) FIRE ALARM A.D.A. VISUAL LIGHT UP 6'-8" A.P.P. TO BOTTOM OF UNIT
- 4) FIRE ALARM ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
- 5) FIRE ALARM ADDRESSABLE HEAT DETECTORS
- 6) FIRE ALARM ADDRESSABLE PHOTOELECTRIC DUCT SMOKE DETECTOR WITH REMOTE ALARM TEST SWITCH
- 7) FIRE ALARM SPRINKLER FLOW AND TAMPER MONITOR AND CONTROL ZAMB. CONNECT TO SPRINKLER FLOW AND TAMPER SWITCHES
- 8) ADDRESSABLE MONITORS OR CONTROL ZAMB.

NOTES

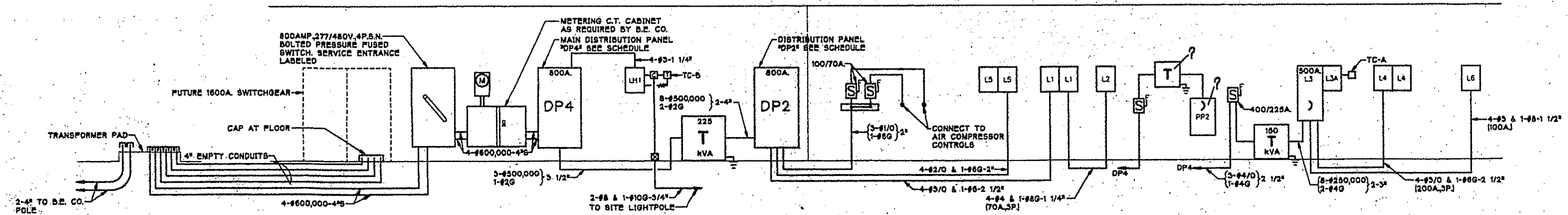
- 1) ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT OR EMT.
- 2) WIRING OF SYSTEM SHALL BE DONE PER FIRE ALARM MANUFACTURERS WIRING DIAGRAM
- 3) COMPLETE RECORD WIRING DIAGRAM DRAWINGS SHALL BE KEPT DURING INSTALLATION OF SYSTEM TO MAKE PULL RECORD DRAWING ON COMPLETION OF PROJECT.
- 4) THE ELECTRICAL CONTRACTOR SHALL COORDINATE FIRE ALARM SYSTEM IN THE BUILDING WITH CANTON FIRE DEPT. FOR DESIGN APPROVAL AND EQUIPMENT TO BE FURNISHED AND INSTALLED.

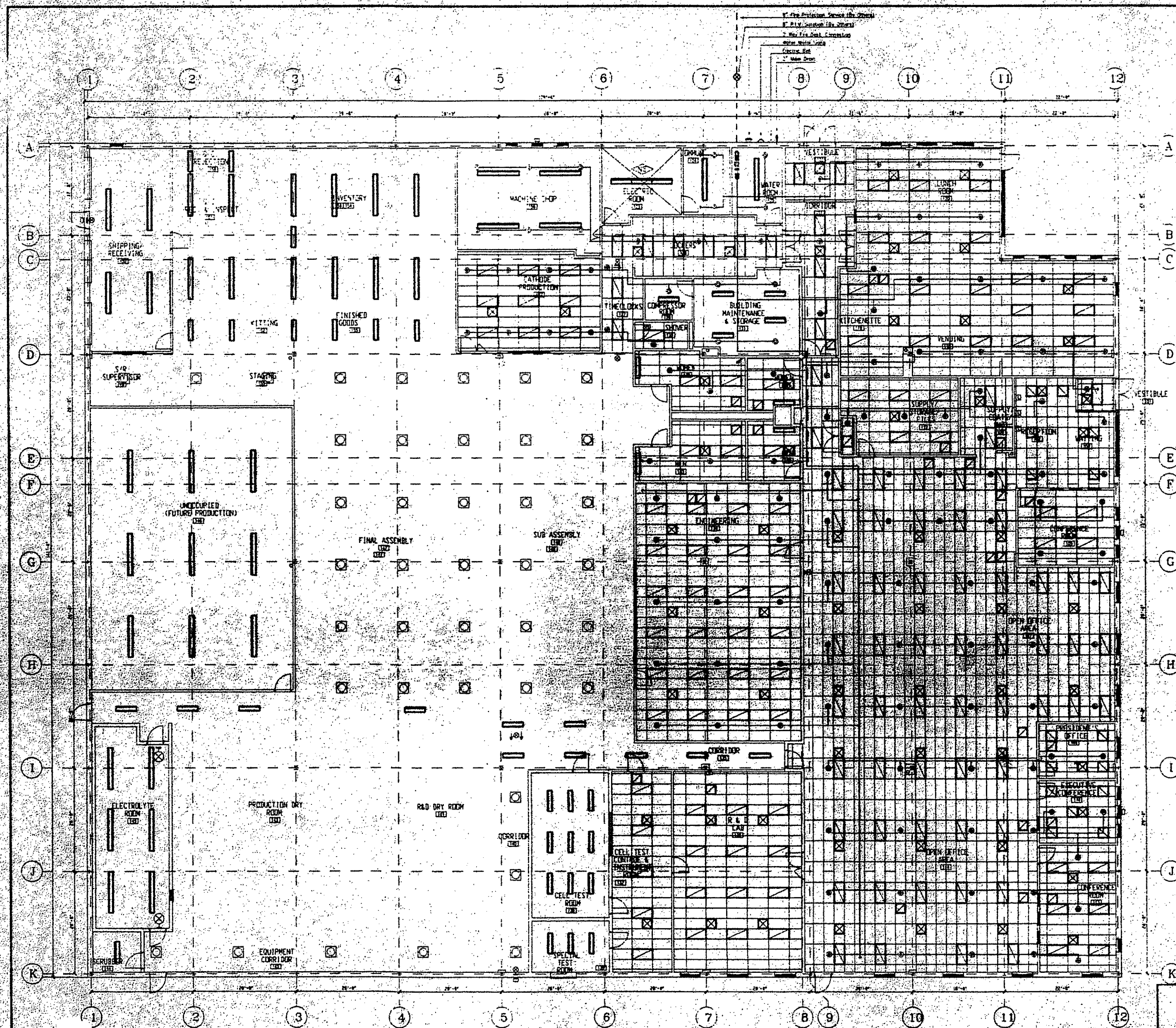
**ELECTRIC
FIRE ALARM PLAN**

Job No: 2005
Scale: 1/8"=1'-0"
Drawn by: J.B.P.
Checked by: P.M.C.
Date: 11/05/05

MAIN DISTRIBUTION PANEL "DP4"					
800AMP, M.L.O. 277/480V, 3Ø, 4W. 65 X 1 C.A.					
ITEM NO.	BRKR TYPE	BRKR SIZE	TRIP SIZE	DESCRIPTION	FEEDER SIZE
1	400	350		DISTRIBUTION PANEL DP2 225kVA TRANSF.	
2	400	225		LIGHTING PANEL L3, 150kVA TRANSFORMER	
3				POWER PANEL PP2	
4	225	200		NEW DRY ROOM CHILLER	
5	225	100		NEW DRY ROOM DEHUMIDIFIER AND REHEAT UNITS	
6	100	30		ROOF TOP UNIT -1	
7	100	30		ROOF TOP UNIT -2	
8	100	30		ROOF TOP UNIT -3	
9	100	75		ROOF TOP UNIT -4	
10	100	60		ROOF TOP UNIT -5	
11	100	30		ROOF TOP UNIT -6	
12	100	30		COMPACTOR	
13					
14					

MAIN DISTRIBUTION PANEL "DP2"					
800AMP, M.L.O. 120/208V, 3Ø, 4W. K. I. C.A.					
ITEM NO.	BRKR TYPE	BRKR SIZE	TRIP SIZE	DESCRIPTION	FEEDER SIZE
1	800	600		MAIN BREAKER	SEE RISER DIAGRAM
2	225	200		LIGHTING PANEL L1 AND L2	SEE RISER DIAGRAM
3	225	175		LIGHTING PANEL L3	SEE RISER DIAGRAM
4	225	200		DRY ROOM CHILLER	SEE RISER DIAGRAM
5	225	150		AIR COMPRESSORS	SEE RISER DIAGRAM
6	100	100		FURNACE #1	SEE RISER DIAGRAM
7	100	100		FURNACE #2	SEE RISER DIAGRAM
8	100	100		DRY ROOM DEHUMIDIFIER	SEE RISER DIAGRAM
9	100	50		ELECTRIC CABINET HEATER #E.C.H.-1	SEE RISER DIAGRAM
10	100	20, 1P		ELECTRIC WALL HEATER #E.B.H.-1	SEE RISER DIAGRAM
11	100	20, 1P		ELECTRIC WALL HEATER #E.B.H.-1	SEE RISER DIAGRAM
12	100	20, 1P		ELECTRIC WALL HEATER #E.B.H.-1	SEE RISER DIAGRAM
13	100	-		SPACE AND BUS	
14	100	-		SPACE AND BUS	

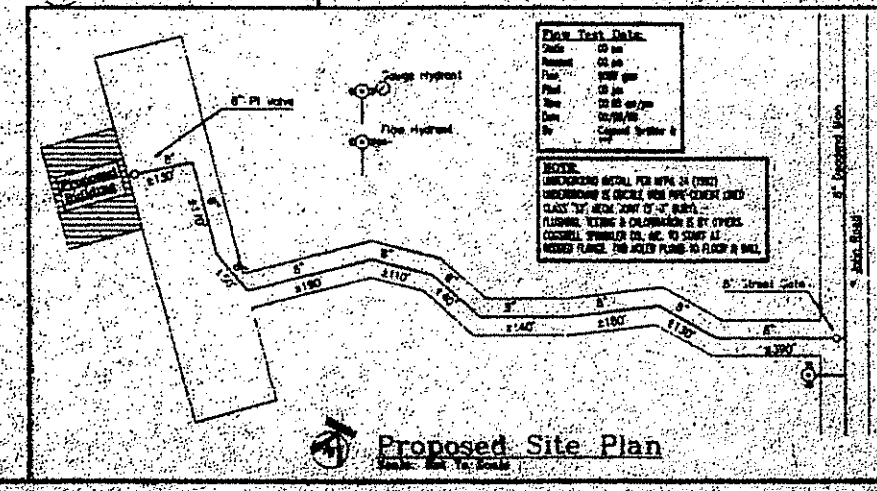
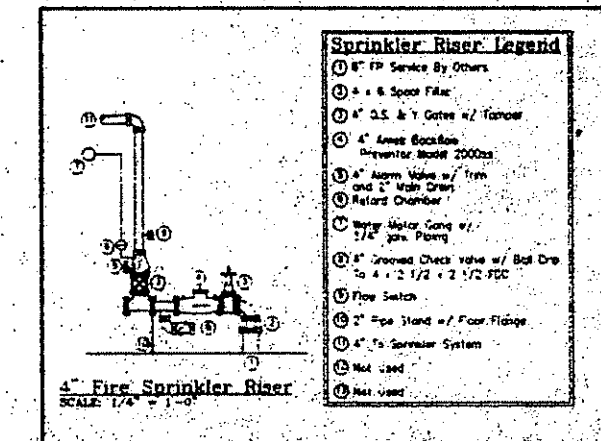




Fire Protection Plan
Scale: 1/4" = 1'-0"

PRELIMINARY DRAWING

PRELIMINARY DRAWING



ENGINEERS STAMP	
GENERAL NOTES: 1. This drawing is a preliminary drawing and is not to be used for construction purposes. 2. All dimensions are in feet and inches. 3. All work shall be in accordance with the latest edition of the National Fire Protection Association (NFPA) standards. 4. The owner shall be responsible for obtaining all necessary permits and approvals. 5. The engineer shall be responsible for the design and construction of the fire protection system. 6. The fire protection system shall be installed in accordance with the latest edition of the NFPA standards. 7. The fire protection system shall be tested and inspected by the local fire department. 8. The fire protection system shall be maintained in accordance with the latest edition of the NFPA standards. 9. The fire protection system shall be replaced or repaired as needed. 10. The fire protection system shall be documented in a fire protection log.	
PROJECT INFORMATION: PROJECT: BATTERY ENGINEERING LOCATION: JOHN ROAD, CANTON, MA DATE: 11/13/98 DRAWN: EMMETT PACE PROJ. NO.: 05-0000 FILE: BATTERY DATE: 11/13/98 DRAWN: EMMETT PACE PROJ. NO.: 05-0000 FILE: BATTERY	SPRINKLER LEGEND: MAKE: MODEL: TYPE: QTY: 1" 1/2" 2" 3" 4" 6" 8" 10" 12" 14" 16" 18" 20" 22" 24" 26" 28" 30" 32" 34" 36" 38" 40" 42" 44" 46" 48" 50" 52" 54" 56" 58" 60" 62" 64" 66" 68" 70" 72" 74" 76" 78" 80" 82" 84" 86" 88" 90" 92" 94" 96" 98" 100"
COMPANY INFORMATION: NAME: BATTERY ENGINEERING ADDRESS: JOHN ROAD, CANTON, MA PHONE: (508) 845-1234 FAX: (508) 845-1235 EMAIL: info@batteryeng.com WEBSITE: www.batteryeng.com	