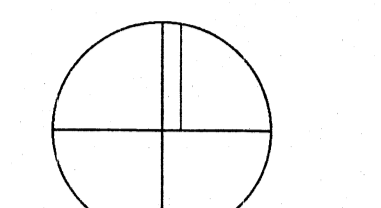


**PLANT LIST**

Qty	Botanical Name	Common Name	Size	Cdn.
<b>TREES</b>				
19	Acer circinatum	Vine Maple	3.5m. ht.	B&B.
3	Acer palmatum	Japanese Maple	2.5m. ht.	B&B.
8	Acer truncatum	Norwegian Sunset Maple	7cm. cal.	B&B.
3	Liriodendron tulipifera	Tulip Tree	7cm. cal.	B&B.
9	Pinus sylvestris	Scots Pine	2.5m. ht.	B&B.
3	Platanus x acerifolia	London Plane Tree	7cm. cal.	B&B.
7	Populus tremuloides	Trembling Aspen	3.0m. ht.	B&B.
<b>SHRUBS</b>				
38	Azalea 'Gumpo White'	Gumpo White Azalea	0.3m. ht.	#2 pot
22	Arbutus unedo	Strawberry Tree	1.0m. ht.	#3 pot
3	Choisya ternata	Mexican Orange	0.5m. ht.	#3 pot
27	Cornus stolonifera	Red Twig Dogwood	1.0m. ht.	#2 pot
6	Cornus stolonifera 'Faviramea'	Yellow Twig Dogwood	1.0m. ht.	#2 pot
177	Gaultheria shallon	Salal	0.2m. ht.	#1 pot
471	Mahonia nervosa	Long Leaved Mahonia	0.2m. ht.	#1 pot
40	Mahonia aquifolium	Oregon Grape	0.5m. ht.	#3 pot
82	Osmarea burkwoodii	Burkwood Osmarea	0.5m. ht.	#3 pot
3	Osmarea fragrans	Fragrant Osmarea	1.0m. ht.	#3 pot
54	Pachistima myrsinites	False Box	0.3m. ht.	#2 pot
14	Philadelphus lewisii	Mock Orange	1.0m. ht.	#3 pot
30	Pinus mugo mughus	Dwarf Mugo Pine	0.5m. ht.	#3 pot
125	Polystichum munitum	Sword Fern	0.2m. ht.	#1 pot
8	Vaccinium ovatum	Evergreen Huckleberry	0.3m. ht.	#2 pot
3	Vaccinium parvifolium	Red Huckleberry	1.0m. ht.	#3 pot
<b>VINES AND GROUNDCOVERS</b>				
30	Parthenocissus quinquefolia	Virginia Creeper		#1 pot

ALL WORK TO COMPLY WITH B.C.S.L.A./B.C..L.N.A. STANDARDS.

PROJECT NORTH



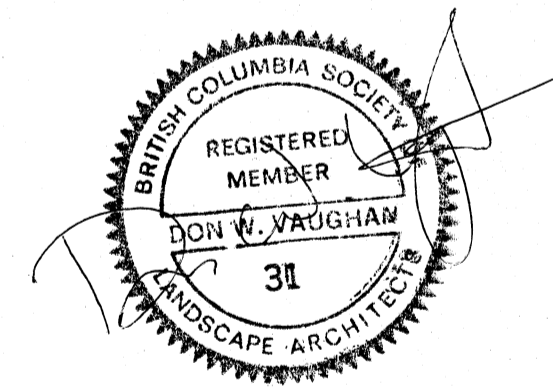
CITY OF NORTH VANCOUVER  
ENGINEERING DEPT.  
**REVIEWED**  
OFF SITE INFORMATION NOTED ONLY  
DATE: \_\_\_\_\_ WATER: \_\_\_\_\_  
SCALE: \_\_\_\_\_ DRAINAGE: \_\_\_\_\_  
I confirm the accuracy of this drawing does not account for any changes or deficiencies or omissions.  
*July 12, 2001*  
for City Engineer



ISSUED FOR TENDER  
MAY 2, 2001

REV.	DATE	DESCRIPTION
4	07/11/01	Platanus x acerifolia moved to avoid existing services
3	06/20/01	EXISTING SERVICES ADDED
2	04/30/01	1 Acer truncatum added to plant list
1	04/10/01	ADDITION OF LAWN BUILDING CHANGE ADDED PLANTING AMENDED

RESUBMITTED FOR REVIEW APRIL 11, 2001  
SUBMITTED FOR B.P. JUNE 20, 2001  
RESUBMITTED FOR B.P. JULY 11, 2001



**Vaughan**  
Landscape Planning and Design  
3069 Mathers Ave.  
West Vancouver, B.C.  
Canada V7V 2K3  
PH: 922-1885  
FAX: 922-5485  
vaughan@telus.net

CLIENT  
**Maxem Holdings Inc.**

DESIGNED	JMV
SCALE	1" = 10'
DATE	SEPT 13, 00

**PLANTING PLAN**

DRAWING NO. **L1** REV. **4**

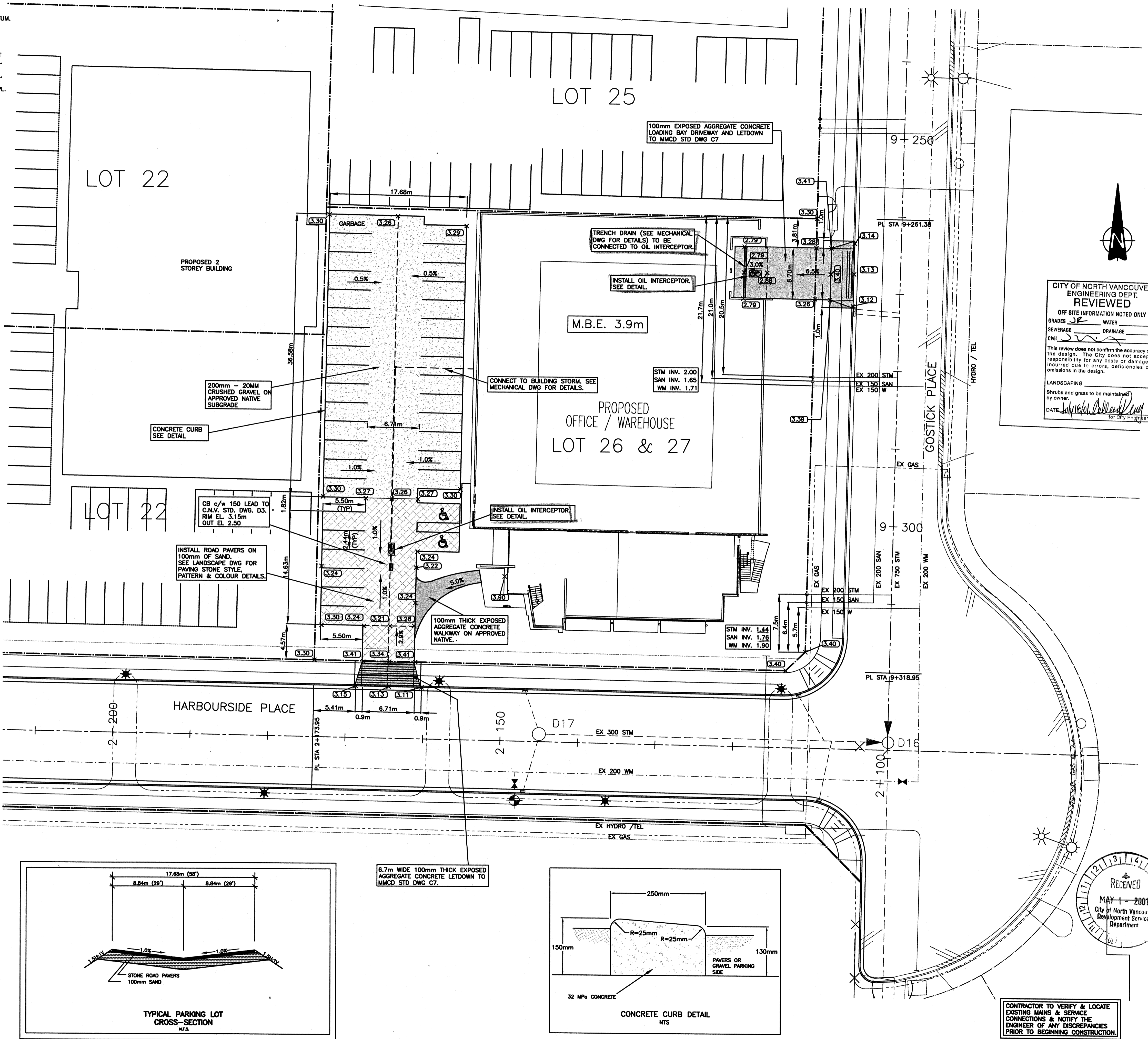
THIS REVISION SUPERCEDES DRAWINGS BEARING PREVIOUS REVISION NUMBER

**GENERAL NOTES**

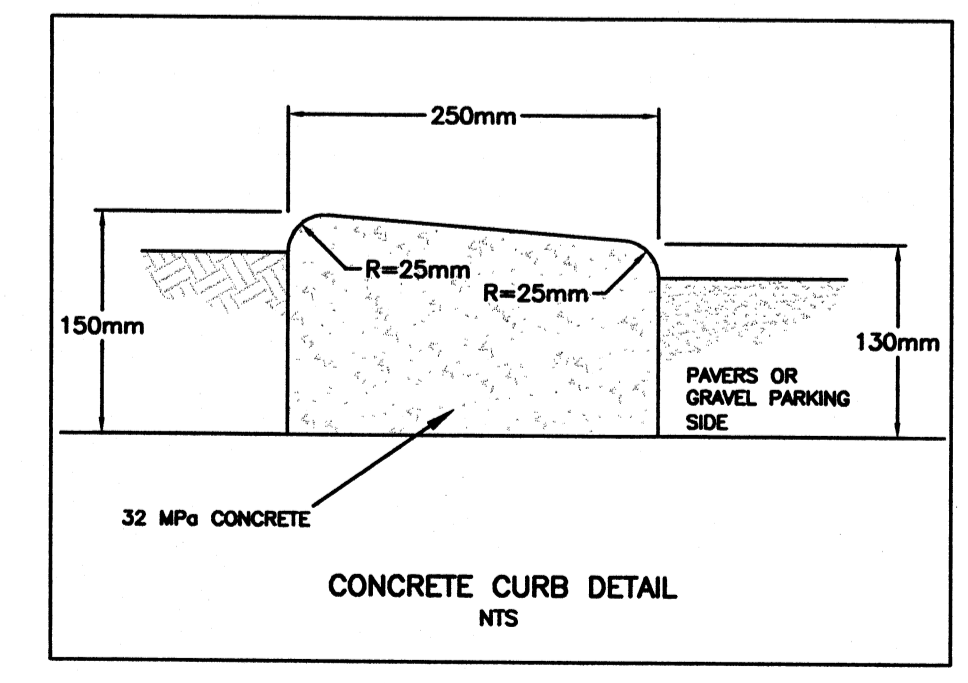
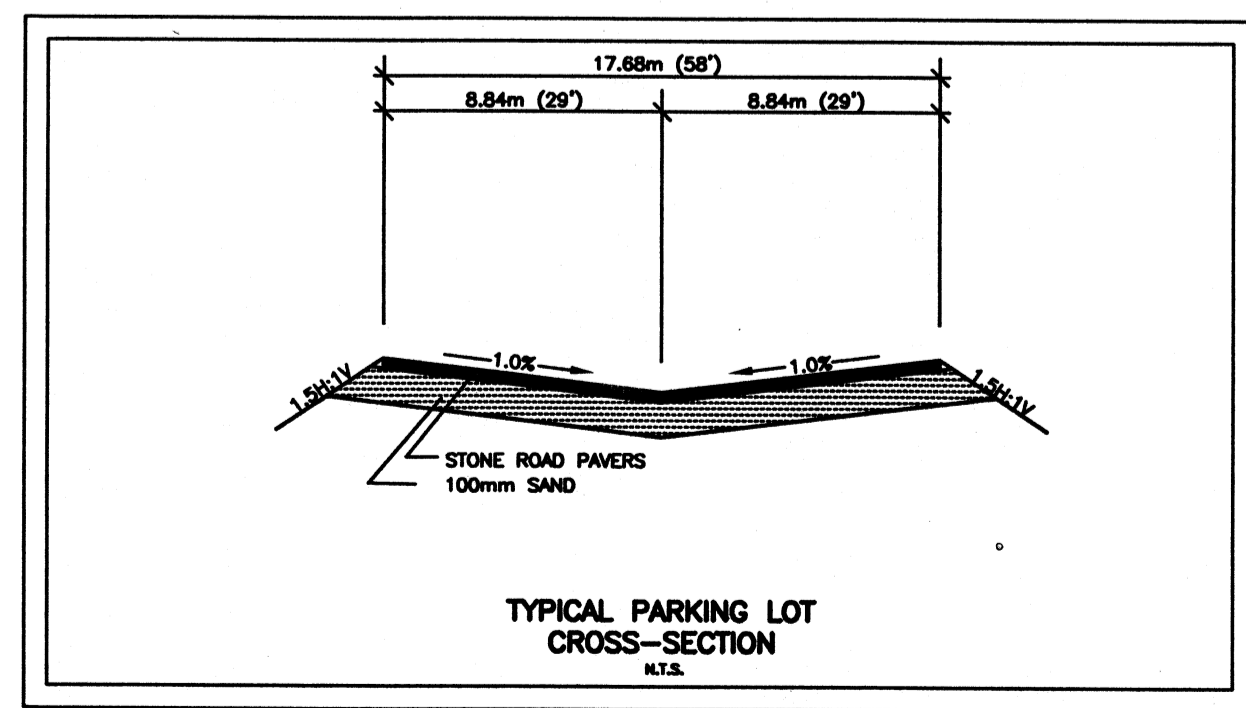
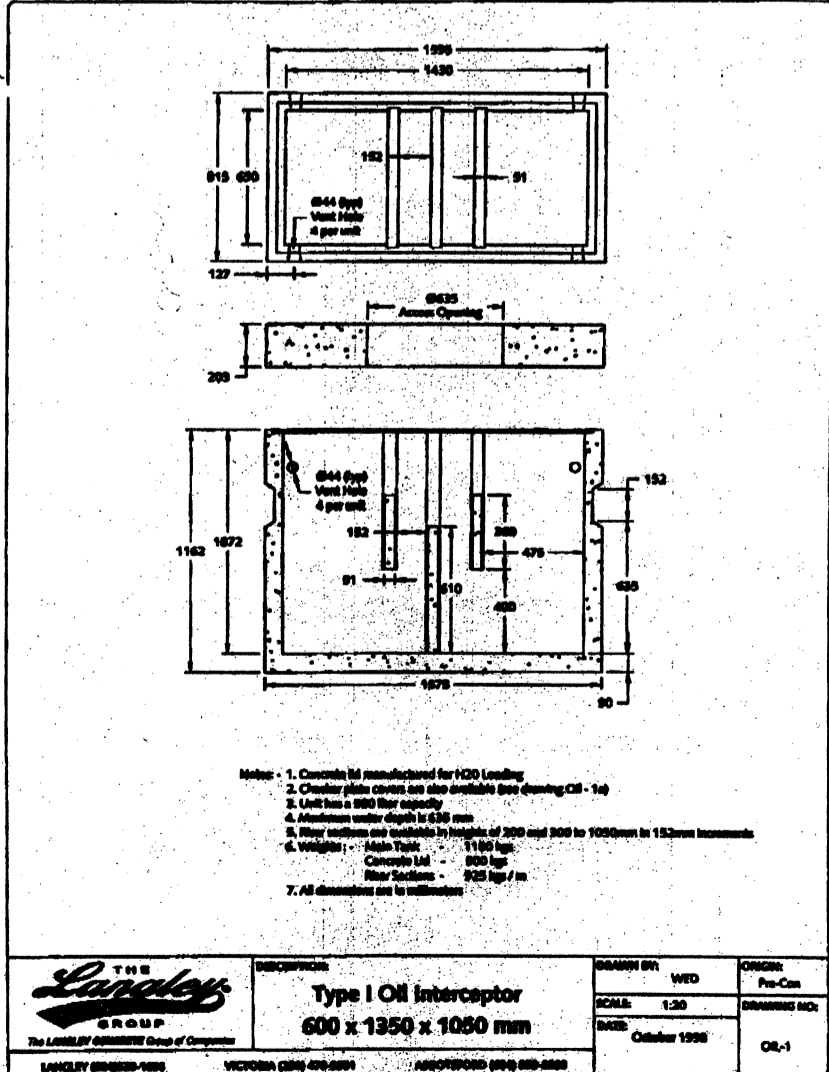
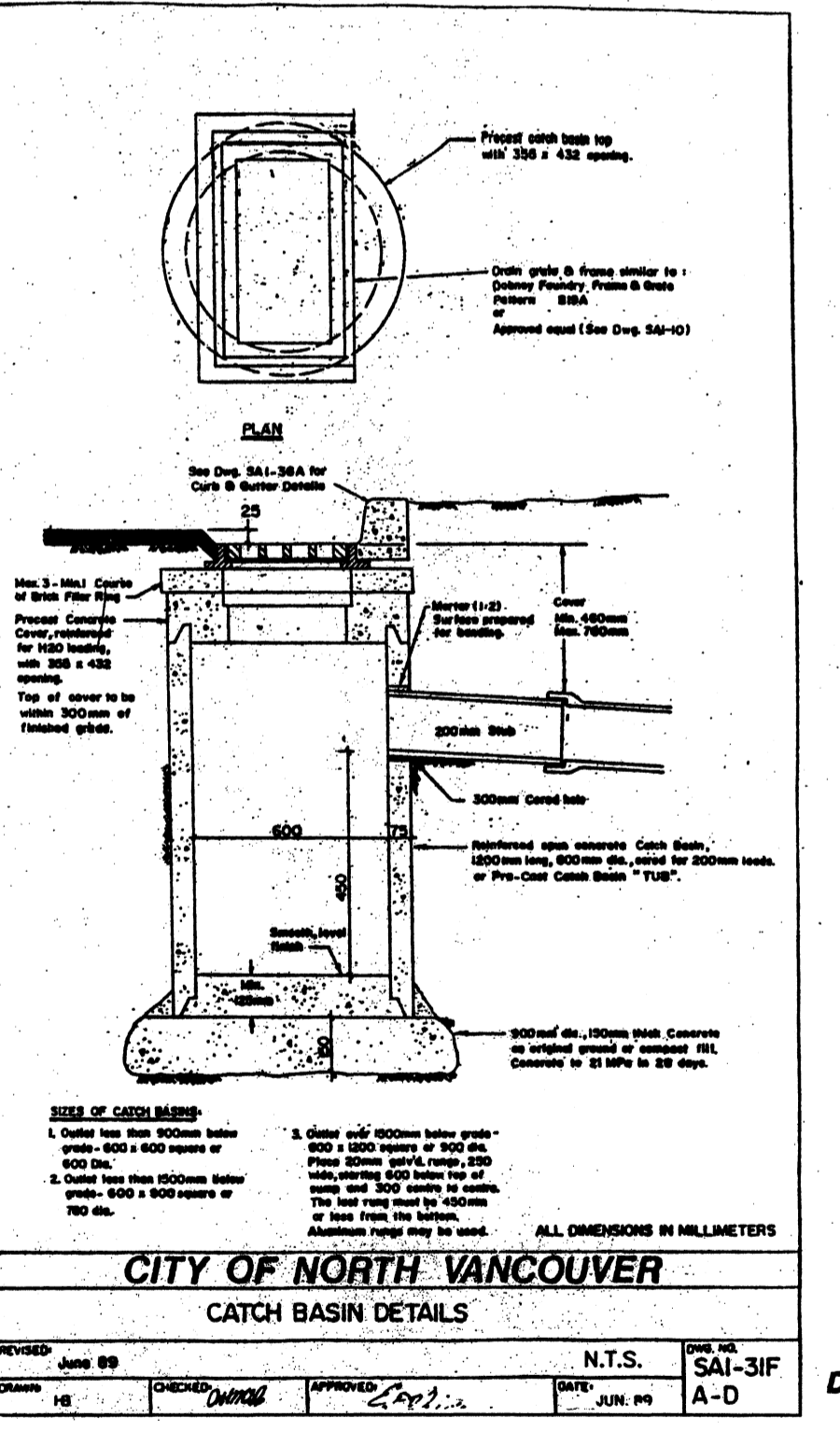
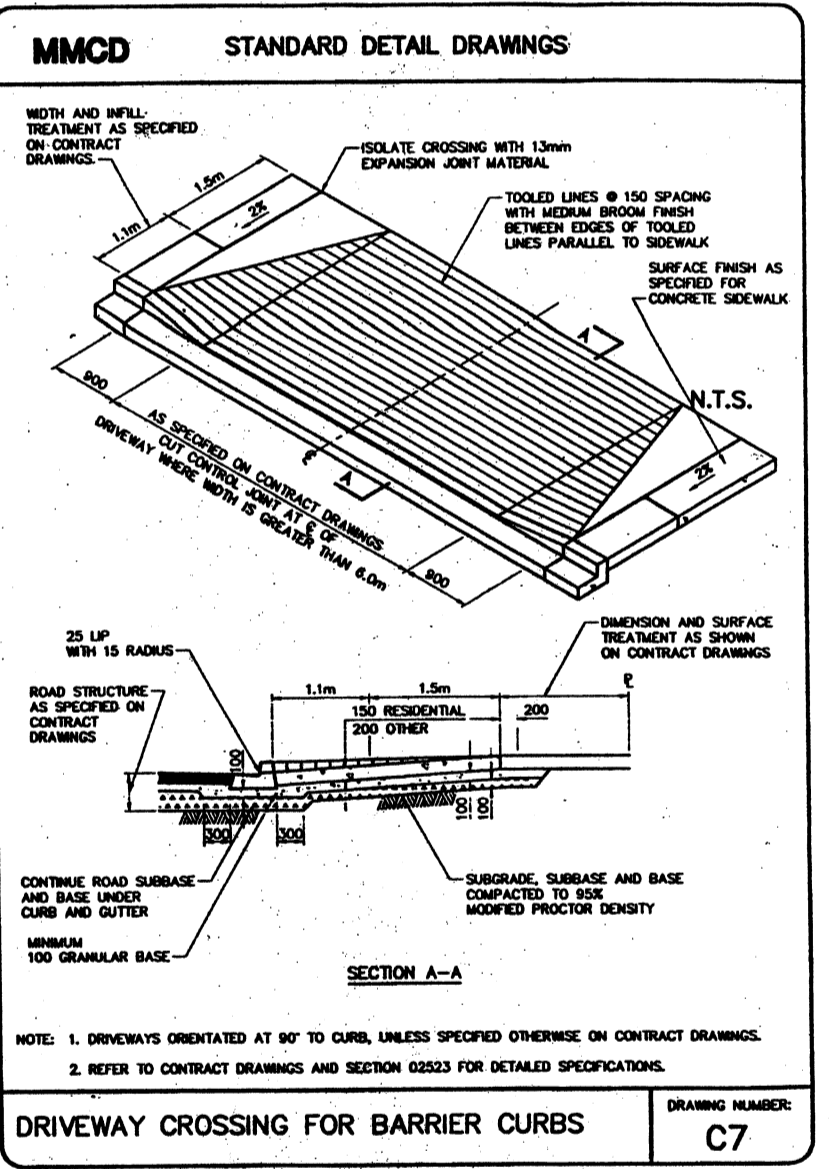
1. THE TERM "ENGINEER" REFERS TO WEBSTER ENGINEERING LTD. THEIR CONTACT IS FRED CAMBRELLI AND CAN BE CONTACTED AT 983-0458.
2. ALL CONSTRUCTION IN CITY OF NORTH VANCOUVER RIGHT OF WAY MUST CONFORM TO THE MASTER MUNICIPAL SPECIFICATIONS AND STANDARD DRAWINGS AS MODIFIED BY THE CITY OF NORTH VANCOUVER CONSTRUCTION SPECIFICATIONS ( SCHEDULE C OF BYLAW 6200 ) AND STANDARD DRAWINGS.
3. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
4. LOCATIONS OF EXISTING UNDERGROUND SERVICES DETERMINED FROM THE CITY OF NORTH VANCOUVER RECORDS AND UTILITY COMPANIES INFORMATION. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING SERVICES AND TO NOTIFY ENGINEER OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS PRIOR TO CONSTRUCTION.
5. ALL CUTS IN EXISTING ASPHALT REQUIRED FOR CONSTRUCTION SHALL BE VERTICAL, 115mm DEEP, WITH A DIAMOND SAW AND REPLACED WITH MINIMUM 115mm ASPHALT CONCRETE FOR MAIN ROADS AFTER BACKFILL AND COMPACTION. ALL PAVEMENTS, BOULEVARDS, DRIVEWAYS, FENCES, ETC. ARE TO BE RESTORED TO THE SATISFACTION AND APPROVAL OF THE CITY WHEN NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
6. THE CONTRACTOR MUST NOTIFY THE ENGINEER 48 HOURS PRIOR TO STARTING OR RESTARTING CONSTRUCTION TO ESTABLISH AN INSPECTION SCHEDULE. HE MUST ALSO CONTACT THE ENGINEER 48 HOURS BEFORE ANY REQUIRED INSPECTION.
7. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES AND ANY SERVICES DISTURBED ARE TO BE REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE CITY.
8. THE ENGINEER MUST NOTIFY THE CITY NOT LESS THAN 24 HOURS BEFORE WORK OUTSIDE THE PROPERTY IS STARTED, RESTARTED OR INSPECTIONS ARE REQUIRED.
9. EXISTING ROADWAY NOT INCLUDED IN THESE PROPOSED WORKS SHALL BE KEPT CLEAN AND CLEAR FOR THE DURATION OF CONSTRUCTION AND LEFT IN SAME CONDITION AS PRIOR TO CONSTRUCTION SURROUNDING STREETS SHALL BE SWEEPED DAILY IF NECESSARY.
10. TRAFFIC CONTROL TO BE TO THE MINISTRY OF TRANSPORTATION AND HIGHWAYS "TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS".
11. PEDESTRIANS SHALL BE PROTECTED AT ALL TIMES. ANY CLOSURE OF THE SIDEWALK TO BE COORDINATED WITH THE CITY AT LEAST 48 HOURS AND WITH SURROUNDING PROPERTIES AT LEAST 24 HOURS BEFORE ANY REQUIRED CLOSURE.
12. ENGINEER SHALL PROVIDE CERTIFIED AS-BUILT RECORD INFORMATION TO THE CITY OF NORTH VANCOUVER ENGINEERING DEPARTMENT.
13. DRIVEWAY AND PARKING AREA TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
14. CATCH BASIN LEADS LEADS TO BE 200mm DIAMETER P.V.C. S.D.R. 35.
15. MINIMUM GRADE ON CATCH BASIN LEADS TO BE 2% UNLESS NOTED OTHERWISE.
16. PIPE BEDDING TO CONFORM WITH THE CNV STANDARDS.
17. CATCH BASIN RIMS TO BE SET 25mm BELOW GUTTERLINE ELEVATION.
18. CATCH BASINS TO BE CNV STANDARD DWG. D3.
19. CHANGES IN GRADE TO BE FORMED WITH SMOOTH CURVES.
20. COMPACTION & CONCRETE TESTING TO BE PERFORMED IN ACCORDANCE WITH THE MASTER MUNICIPAL SPECIFICATIONS.
21. THE CONTRACTOR WILL ROUGHLY GRADE THE BOULEVARDS 100mm BELOW THE PROFILE SHOWN ON THE CROSS SECTIONS.
22. CONCRETE BARRIER CURB TO MMCD STD. DWG C4.
23. CONCRETE DRIVEWAY LETDOWN TO MMCD STD. DWG C7.

**BENCHMARK CONTROL**

ALL ELEVATIONS REFER TO GEODETIC DATUM.  
 CITY OF NORTH VANCOUVER  
 BENCHMARK AND UTM CONTROL (NAD83)  
 \*M\* ESTABLISHED FROM NAD83 MONUMENT  
 HYD. AT GOSTICK AVE. & HARBORSIDE PL.  
 (SW QUAD. - ELEV. 3.987\*)  
 HYD. AT GOSTICK AVE. & HARBORSIDE PL.  
 (E SIDE QUAD. - ELEV. 3.812\*)  
 KIOSK AT GOSTICK AVE. & HARBORSIDE PL.  
 (S. SIDE QUAD. - ELEV. 3.683\*)



**CITY OF NORTH VANCOUVER  
 ENGINEERING DEPT.  
 REVIEWED**  
 OFF SITE INFORMATION NOTED ONLY  
 GRADES: WATER, SEWERAGE, DRAINAGE, CIVIL  
 This review does not confirm the accuracy of the design. The City does not accept responsibility for any costs or damages incurred due to errors, omissions or omissions in the design.  
 LANDSCAPING  
 Shrubs and grass to be maintained by owner.  
 DATE: [Signature]  
 for City Engineer



8	24APR01	MOVE STORM CONNECTION	FMC			client	MAXEM HOLDINGS INC.	<b>WEBSTER ENGINEERING LTD.</b> PROFESSIONAL ENGINEERS 3745 DELBROOK AVENUE, NORTH VANCOUVER, B.C. V7N 3Z4 983-0458 LAND DEVELOPMENT CONSULTANTS	COPYRIGHT RESERVED. THIS DRAWING AND DESIGN ARE, AND AT ALL TIMES REMAIN THE EXCLUSIVE PROPERTY OF WEBSTER ENGINEERING LTD. AND CANNOT BE USED, REPRODUCED OR DISTRIBUTED WITHOUT WRITTEN CONSENT. ©1999 WEBSTER ENGINEERING LTD.	approved	designed by F.M.C.	title	PROPOSED SERVICING PLAN	scale	hor: 1:250 vert: -
7	24APR01	GENERAL REVISION	JRW		project	LOT 26 & 27 HARBORSIDE BUSINESS PARK NORTH VANCOUVER	drawn by A.Z.K.			checked by F.M.C.	file no.	2745			
6	23APR01	BUILDING OUTLINE REVISED	AS				date			JULY.04. 2000	drawing no.	2745-1			
5	01MAY01	ADD CURB DETAIL	FMC	9	01MAY01	REVISE OIL INTERCEPTOR	FMC				rev.	9			
no.	date	revision	chk'd	no.	date	revision	chk'd								

G:\Land Projects\2745\dwg\plan.dwg, 05/01/2001 01:32:32 PM, Fred

# OFFICE / WAREHOUSE

## FOR MAXEM HOLDINGS INC.

758 HARBOURSIDE DRIVE, NORTH VANCOUVER, BC, CANADA

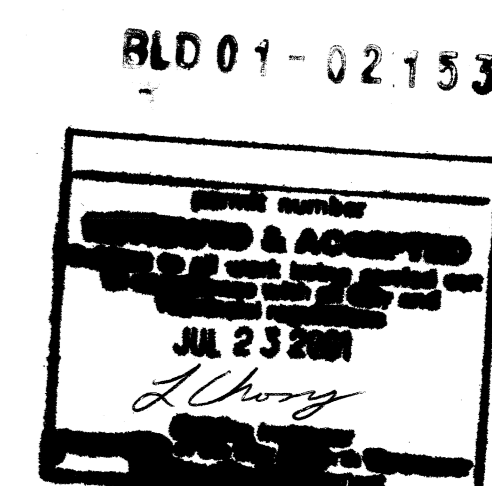
OFFICE / WAREHOUSE  
FOR MAXEM HOLDINGS INC.

758 HARBOURSIDE DRIVE, NORTH VANCOUVER, BC, CANADA

### ARCHITECTURAL

Bunting Coady Architects  
Suite 300-171 Water Street  
Vancouver, BC  
V6B 1A7

A000	TITLE SHEET
A101	SITE PLAN
A111	DOOR & ROOM SCHEDULES
A112	WALL SCHEDULE / INFORMATION
A201	GROUND FLOOR PLAN
A202	SECOND FLOOR PLAN
A203	THIRD FLOOR PLAN
A204	ROOF PLAN
A401	BUILDING ELEVATIONS EAST & SOUTH
A402	BUILDING ELEVATIONS WEST AND NORTH
A451	BUILDING SECTIONS - A & B
A452	BUILDING SECTIONS - C, D & E
A501	LOBBY PLAN DETAILS, INTERIOR ELEVATIONS
A502	DETAIL PLANS, INTERIOR ELEVATIONS
A503	DETAIL PLANS, INTERIOR ELEVATIONS
A504	DETAIL PLANS, INTERIOR ELEVATIONS
A505	STAIR NO. 1 PLANS & SECTIONS
A701	TYPICAL DETAILS
A702	SECTION DETAILS - 1
A704	DETAILS

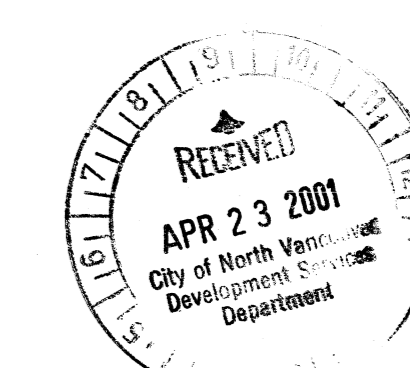


REISSUED FOR:  
**BUILDING PERMIT**

DATE:  
**20 APRIL 2001**

SET NO.:

BLD01-02153

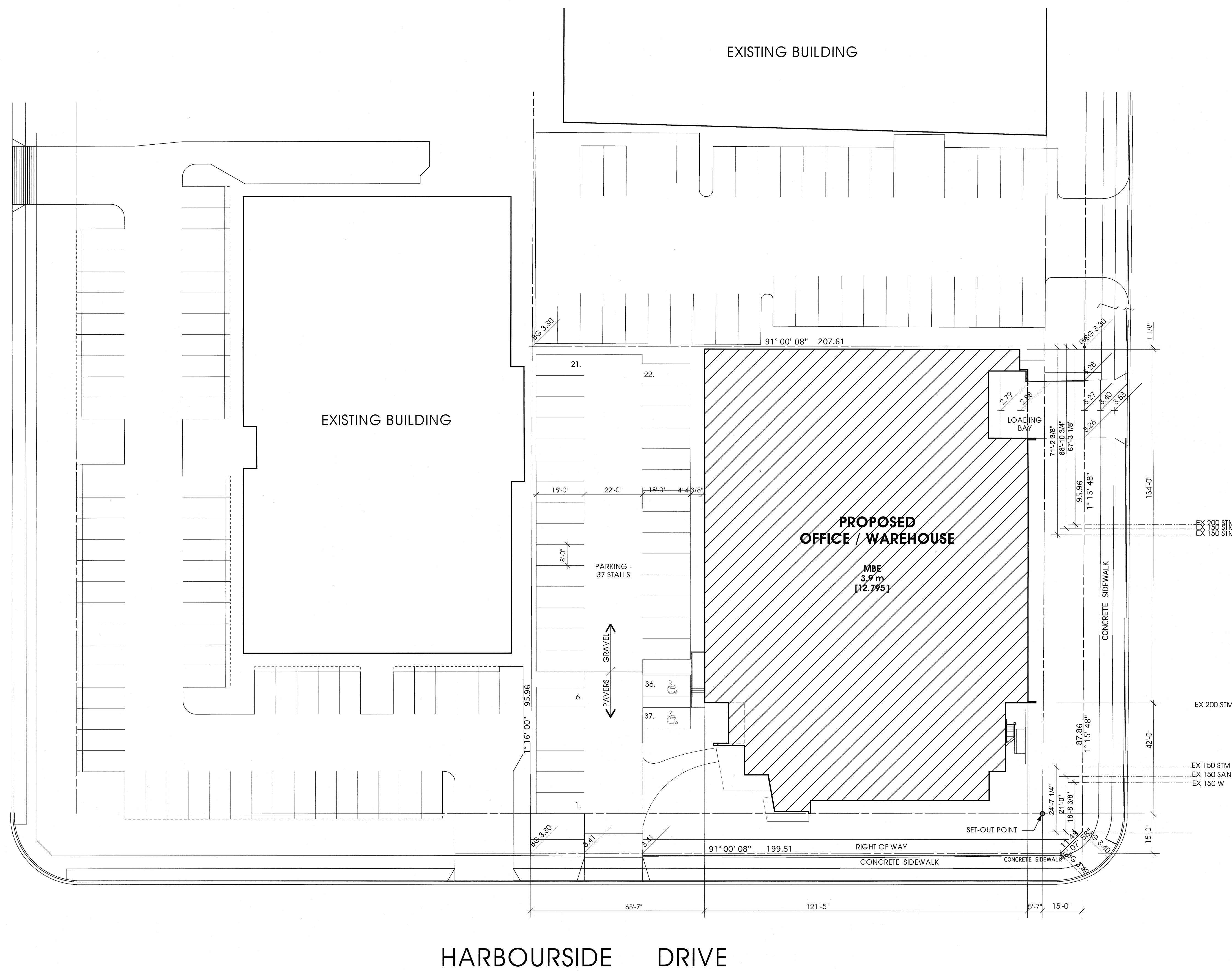


ARCHITECTS

BCA PROJECT NUMBER 0019

APPLICANT'S COPY

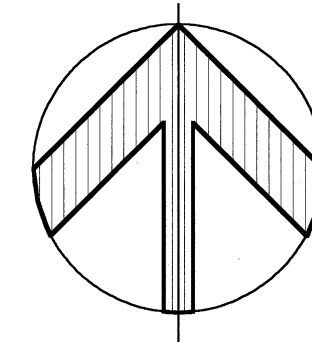
FELL AVE.



HARBOURSIDE DRIVE

**SITE PLAN**

SCALE: 1/20" = 1'-0"



BUILDING NORTH

**PROJECT STATISTICS**

**LEGAL DESCRIPTION**  
 LOTS 26 AND 27, DISTRICT LOT 2654, GROUP ONE,  
 NEW WESTMINSTER DISTRICT, PLAN 45092

**CIVIC ADDRESS**  
 758 HARBOURSIDE DRIVE

**ZONING**  
 C1-360

<b>SITE AREA</b>	3,698.67 sq.m.	39,813 sq.ft.
<b>FLOOR AREA RATIO PERMITTED</b>	0.75 FAR	29,860 sq.ft.
<b>FLOOR AREA RATIO PROPOSED</b>		
GROUND FLOOR	OFFICE	WAREHOUSE
SECOND FLOOR/MEZZANINE	3,674 sq. ft.	15,988 sq. ft.
THIRD FLOOR	3,552 sq. ft.	1,598 sq. ft.
TOTAL	7,226 sq. ft.	17,586 sq. ft.
<b>GROSS FLOOR AREA</b>		26,610 sq.ft.
<b>FLOOR AREA RATIO</b>		0.67 FAR
<b>BUILDING COVERAGE PERMITTED</b>	50 %	19,930 sq. ft.
<b>BUILDING COVERAGE PROPOSED</b>		
OFFICE		3,674 sq. ft.
WAREHOUSE		15,988 sq. ft.
TOTAL		19,662 sq. ft.
<b>BUILDING COVERAGE</b>	49 %	
<b>BUILDING HEIGHT PERMITTED</b>	3 STOREYS	40'
<b>BUILDING HEIGHT PROPOSED</b>	3 STOREYS	

**NOTES:**

1. THE CITY MAY MAKE ELEVATION CHECKS:  
 ON GRADED SUB-BASE OF ALL PROPOSED CONCRETE OR BLACKTOP PAVED AREAS.  
 ON FORMS OF ALL SIDEWALK ENTRANCES, DOORWAYS AND RETAINING WALLS ADJACENT TO OR  
 CROSSING PROPERTY LINE.  
 ON FORMS FOR DRIVEWAY DRAINAGE GATES
2. 24 HOURS NOTICE IS REQUIRED FOR ALL ELEVATION CHECKS
3. A CITY WORKS PERMIT IS REQUIRED FOR ANY CONSTRUCTION ON CITY PROPERTY
4. TELEPHONE SERVICE IS TO BE UNDERGROUND
5. HYDRO SERVICE IS TO BE UNDERGROUND
6. REFER TO GEODETIC BENCHMARK (3.987m)  
 LOCATED AT THE SOUTH WEST CORNER OF GOSTIC & HARBOURSIDE
7. ALL SITE DIMENSIONS AND BEARING AND BUILDING GRADES TO BE CONFIRMED  
 BY PROFESSIONAL SITE SURVEY
8. GRADE ELEVATIONS ON THIS SITE PLAN ARE METRIC, UNLESS NOTED OTHERWISE



ALL RIGHTS RESERVED. PROPERTY OF  
**BUNTING COADY ARCHITECTS**. USE  
 OR REPRODUCTION PROHIBITED  
 WITHOUT PRIOR WRITTEN PERMISSION.

THE GENERAL CONTRACTOR SHALL REVIEW THE  
 DOCUMENTS FOR CONFORMANCE CODES AND BY-  
 LAWS AND SHALL ADVISE THE ARCHITECT OF ANY  
 DISCREPANCIES HE MAY NOTE. THE GENERAL  
 CONTRACTOR SHALL CHECK AND VERIFY ALL  
 DIMENSIONS AND REPORT ALL ERRORS AND  
 DISCREPANCIES TO THE DESIGNER.  
**DO NOT SCALE THE DRAWINGS.**

THESE DRAWINGS ARE INTENDED FOR  
 ARCHITECTURAL INFORMATION ONLY. THE  
 CONTRACTOR AND ANY PERSON USING THESE  
 DRAWINGS FOR INFORMATION ARE ADVISED TO  
 REFER TO CIVIL, STRUCTURAL, MECHANICAL,  
 ELECTRICAL AND INTERIOR DESIGN  
 DISCIPLINE DRAWINGS FOR INFORMATION RELATING  
 TO THOSE DISCIPLINES.

**CITY OF NORTH VANCOUVER  
 ENGINEERING DEPT.  
 REVIEWED**

OFF SITE INFORMATION NOTED ONLY

GRADES:  LUR  WATER   
 SEWERAGE  DRAINAGE

DATE: \_\_\_\_\_

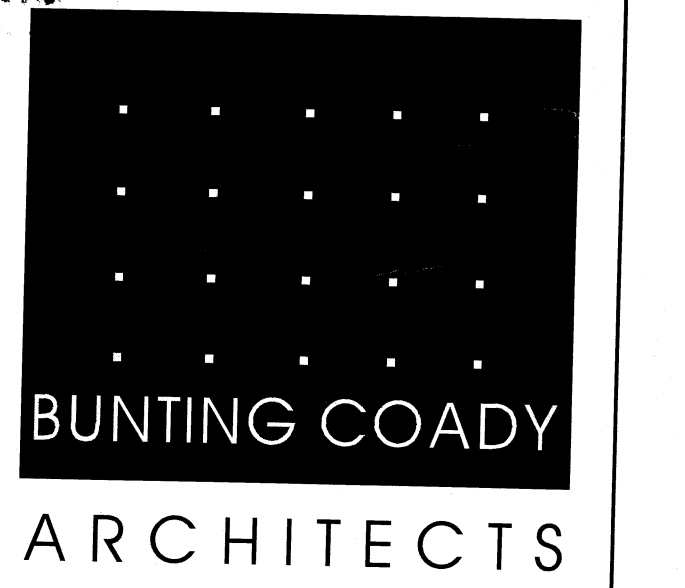
DESIGNED AND DRAWN BY: *[Signature]*

NO.	DATE	REVISIONS
2	APR. 20/2001	RE-ISSUED FOR BLDG. PERMIT
1	FEB. 19/2001	ISSUED FOR BLDG. PERMIT



**Maxem Holdings Inc.**  
**Office / Warehouse**  
 758 Harbourside Drive  
 North Vancouver

**SITE PLAN  
 &  
 PROJECT INFORMATION**



Suite 300 - 171 Water Street  
 Vancouver, B.C.  
 Canada, V6B 1A7  
 Tel (604) 685-9913  
 Fax (604) 685-0694  
 www.buntingcoady.com

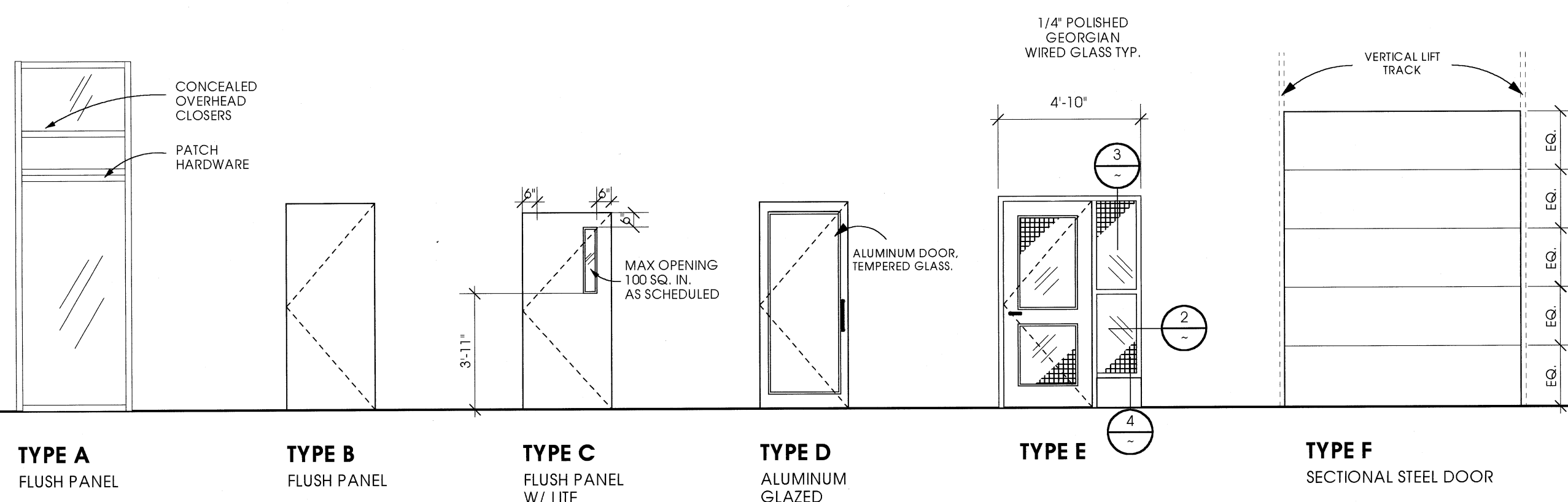
R101-02153



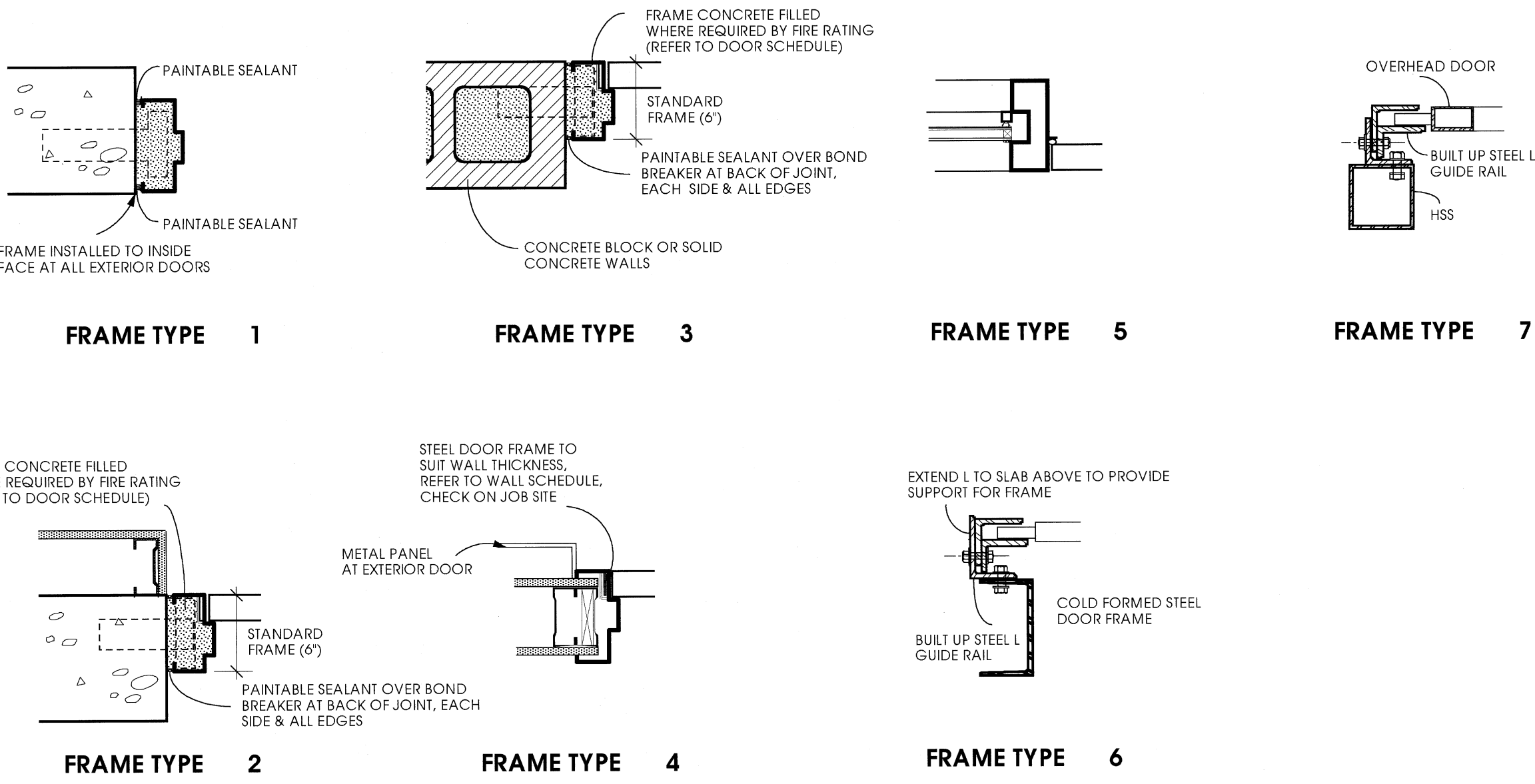
**A101**

SCALE 1/20" = 1'-0"	PROJECT 0019
DRAWN E RMM	DATE 1 FEB 2001

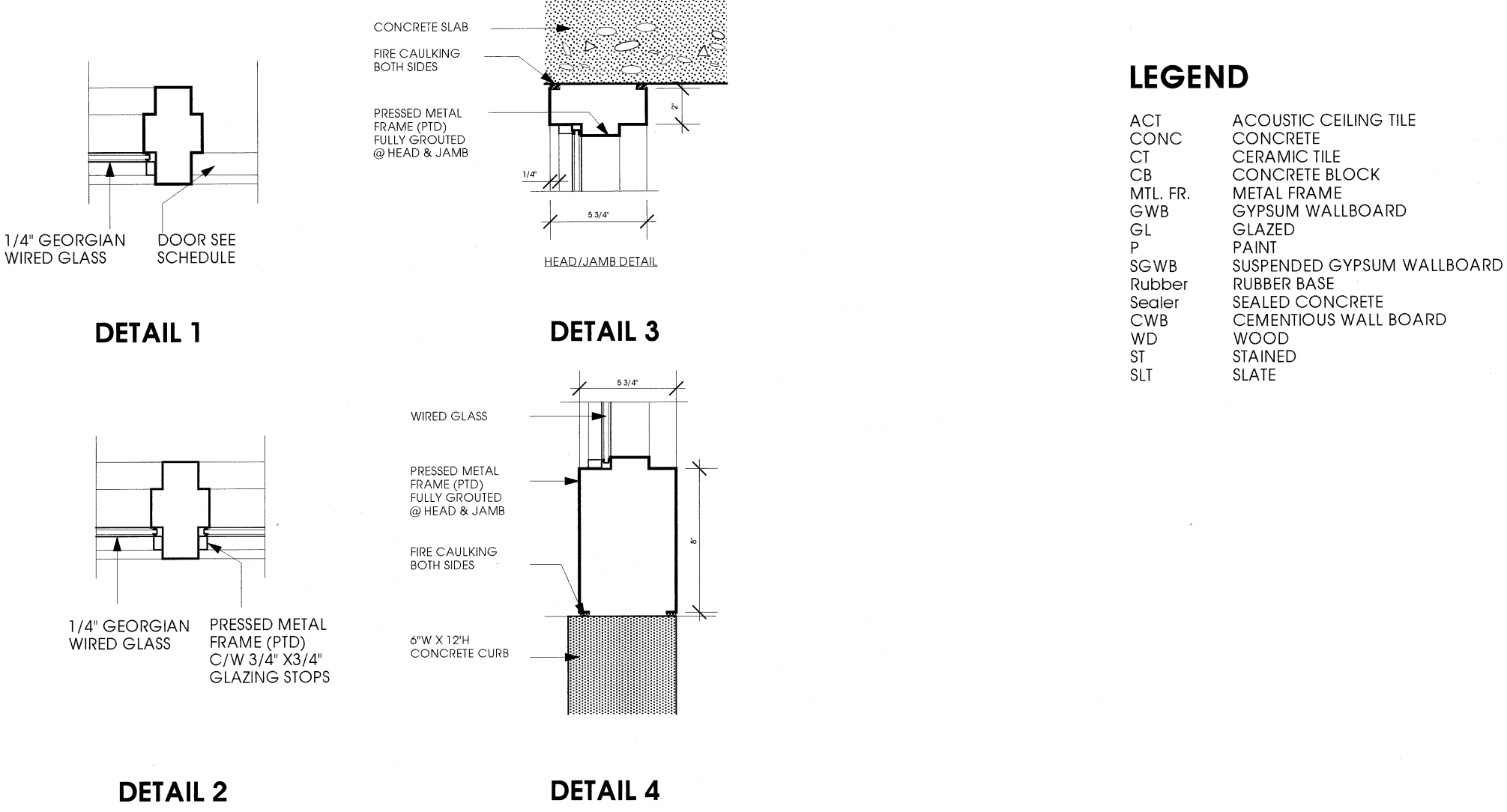
**DOOR SCHEDULE**



**DOOR FRAME TYPES**



**WINDOW FRAME DETAILS**



**LEGEND**

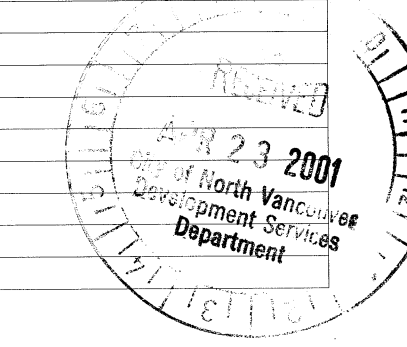
ACI	ACOUSTIC CEILING TILE
CONC	CONCRETE
CT	CERAMIC TILE
CR	CONCRETE BLOCK
ML	METAL FRAME
IR	INSULATED RUBBER GLAZING
GW	GYP/SIM WALLBOARD
GL	GLAZED
SI	STAINED
SWB	SUPPENDED GYP/SIM WALLBOARD
RUB	RUBBER
SEAL	SEALED CONCRETE
CS	CEMENT/RUBBER WALL BOARD
WD	WOOD
SL	SLATE

ROOM NAME	NO.	LEAF	MATERIAL	CORE	FRAME	GLASS	HARDWARE	REMARKS
<b>GROUND FLOOR</b>								
Security Gate	100	2x3'	8"	-	-	-	-	Security Gate (w/ panic bar & closer)
Lobby	101	2x3'	8"	5/8"	A	X	X	Vision Gl. Door, Patch hardware, Exiting Hardware
Meeting	104	3'0"	7'0"	1 3/4"	B	X	X	
Reception	105	3'0"	7'0"	1 3/4"	B	X	X	
Boardroom	106	3'0"	7'0"	1 3/4"	B	X	X	
Office Area Exit	107	3'0"	7'0"	1 3/4"	C	X	X	X 45 Exit Hardware
I.T. Office	108	3'0"	7'0"	1 3/4"	B	X	X	
IT. Room	109	3'0"	7'0"	1 3/4"	B	X	X	
Office Area Exit	110	3'0"	7'0"	1 3/4"	B	X	X	X 180
Storage	111	3'0"	7'0"	1 3/4"	B	X	X	X 180
Corridor/Printer	112	3'0"	7'0"	1 3/4"	B	X	X	
H/W.C.	113	3'0"	7'0"	1 3/4"	B	X	X	
Warehouse Access Cor	114	3'4"	7'0"	1 3/4"	C	X	X	
Women's Washroom	115	3'0"	7'0"	1 3/4"	B	X	X	Grille
Women's Shower	116	3'0"	7'0"	1 3/4"	B	X	X	Grille
Janitor	117	3'0"	7'0"	1 3/4"	B	X	X	Grille
Men's Washroom	118	3'0"	7'0"	1 3/4"	B	X	X	Grille
Men's Shower	119	3'0"	7'0"	1 3/4"	B	X	X	
Warehouse Area Exit	121	3'0"	7'0"	1 3/4"	B	X	X	X 45 Exit Hardware
Bike Storage	122	3'0"	7'0"	1 3/4"	B	X	X	X 45
Elevator Machine Rm.	123	3'0"	7'0"	1 3/4"	B	X	X	
Meeting	124	3'0"	7'0"	1 3/4"	B	X	X	
Office/Meeting	126	3'0"	7'0"	1 3/4"	B	X	X	
Electrical	130	3'0"	7'0"	1 3/4"	B	X	X	Exit Hardware
Loading (Overhead Door)	131A	8'0"	10'0"	1 3/4"	F			Overhead door
Loading (Overhead Door)	131B	8'0"	10'0"	1 3/4"	F			Overhead door
<b>SECOND FLOOR</b>								
Waiting Area	201	3'0"	7'0"	1 3/4"	B	X	X	X
Staff/Copy/Coffee	202	3'0"	7'0"	1 3/4"	D	X	X	X
Meeting	204	3'0"	7'0"	1 3/4"	B	X	X	X
Office Area Exit	205	3'0"	7'0"	1 3/4"	C	X	X	X
Mezzanine Office	206A	3'0"	7'0"	1 3/4"	C	X	X	X
Mezzanine Office	206B	3'0"	7'0"	1 3/4"	C	X	X	X
Mezzanine Exit	206C	3'0"	7'0"	1 3/4"	B	X	X	X 45 Exit Hardware
<b>THIRD FLOOR</b>								
Elevator Lobby	301	3'0"	7'0"	1 3/4"	E	X	X	X
Executive Office	302	3'0"	7'0"	1 3/4"	B	X	X	X
Executive Office	303	3'0"	7'0"	1 3/4"	B	X	X	X
W/C	305	3'0"	7'0"	1 3/4"	B	X	X	X
Office/Meeting	306	3'0"	7'0"	1 3/4"	B	X	X	X
Corridor	307	3'0"	7'0"	1 3/4"	B	X	X	X
Office Meeting	308	3'0"	7'0"	1 3/4"	B	X	X	X

**ROOM FINISH SCHEDULE**

Room	Base		Walls		Ceiling		Sunlit		Remarks						
	Matrl	Finish	Matrl	Finish	North Matrl	South Matrl	East Matrl	West Matrl							
<b>Ground Floor</b>															
Stair One	Concrete	Sealer	n/a	-	-	-	-	-	n/a						
Lobby	101	Concrete	Stain Seal	Conc/GWB	Wood/Rubber	Conc/Wood	Sealer/Stain	Glass	Conc/Glass	Sealer/Glass	Steel	Paint	n/a		
Reception	102	Concrete	Stain Seal	Conc/GWB	Wood/Rubber	Conc/Wood	Sealer/Stain	Glass	Conc/GWB	Sealer/Conc	Steel	Paint	u/s Struct. - Varies		
Corridor	103	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB	Paint	Concrete	Sealer	Steel/Wood	u/s Struct. - Varies		
Meeting	104	Concrete	Carpet	Conc/GWB	Rubber	GWB	Paint	GWB/Glass	Paint/Glass	GWB	Paint	Concrete	Sealer	Steel/Wood	u/s Struct. - Varies
Boardroom	105	Concrete	Carpet	Conc/GWB	Rubber	GWB/Glass	Paint/Glass	GWB/Glass	Paint/Glass	GWB	Paint	Concrete	Sealer	Steel/Wood	u/s Struct. - Varies
Office Area	106	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB/Glass	Paint/Glass	GWB/Glass	Paint/Glass	Steel/Wood	u/s Struct. - Varies		
I.T. Office	107	Concrete	Carpet	Conc/GWB	Rubber	GWB/Glass	Paint/Glass	GWB/Glass	Paint/Glass	GWB/Glass	Paint/Glass	Steel/Wood	u/s Struct. - Varies		
IT. Room	108	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB/Glass	Paint/Glass	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Corridor/Printer	109	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB/Glass	Paint/Glass	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Storage	110	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
H/W.C.	113	Concrete	Porcelain tile	GWB	Ceramic	GWB	Ceramic tile	GWB	Ceramic tile	GWB	Ceramic tile	Steel/Wood	u/s Struct. - Varies		
Warehouse Access Cor.	114	Concrete	Sealer	GWB	Rubber	GWB	Paint	GWB	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Women's Washroom	115	Concrete	Porcelain tile	GWB	Ceramic	GWB	Ceramic tile	GWB	Ceramic tile	GWB	Ceramic tile	Steel/Wood	u/s Struct. - Varies		
Women's Shower	116	Concrete	Porcelain tile	Cement WB	Ceramic	Cement WB	Ceramic tile	Cement WB	Ceramic tile	Cement WB	Ceramic tile	Steel/Wood	u/s Struct. - Varies		
Janitor	117	Concrete	Sealer	GWB	Rubber	Concrete	Paint	GWB	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Men's Washroom	118	Concrete	Porcelain tile	GWB	Ceramic	GWB	Ceramic tile	GWB	Ceramic tile	GWB	Ceramic tile	Steel/Wood	u/s Struct. - Varies		
Men's Shower	119	Concrete	Porcelain tile	Cement WB	Ceramic	Cement WB	Ceramic tile	Cement WB	Ceramic tile	Cement WB	Ceramic tile	Steel/Wood	u/s Struct. - Varies		
Warehouse Area	121	Concrete	Sealer	GWB	Rubber	Concrete	Paint	Conc/GWB	Paint/Point	Concrete	Paint	Steel/Wood	u/s Struct. - Varies		
Bike Storage	122	Concrete	Sealer	GWB	Rubber	GWB	Paint	Concrete	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Elevator Machine Room	123	Concrete	Sealer	GWB	Rubber	GWB	Paint	Concrete	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Office	124	Concrete	Sealer	GWB	Rubber	-	-	Concrete	Paint	GWB	Paint	Concrete	Sealer	Steel/Wood	u/s Struct. - Varies
Office	125	Concrete	Sealer	GWB	Rubber	-	-	Concrete	Paint	GWB	Paint	Concrete	Sealer	Steel/Wood	u/s Struct. - Varies
First Aid Room	126	Concrete	VCT	GWB	Rubber	GWB	Paint	GWB	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Kitchenette	127	Concrete	VCT	GWB	Rubber	GWB	Paint	GWB	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Office	128	Concrete	VCT	GWB	Rubber	-	-	Concrete	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Staff Meeting	129	Concrete	VCT	GWB	Rubber	-	-	Concrete	Paint	Concrete	Paint	Steel/Wood	u/s Struct. - Varies		
Electrical Area	130	Concrete	Sealer	GWB	Rubber	-	-	Concrete	Paint	Concrete	Paint	Steel/Wood	u/s Struct. - Varies		
Shipping/Receiving/Load	131	Concrete	Sealer	GWB	Rubber	-	-	Concrete	Paint	Concrete	Paint	Steel/Wood	u/s Struct. - Varies		
<b>Second Floor</b>															
Stair One	201	Concrete	Stain Seal	GWB	Rubber	GWB	Paint	Glass/Conc	Glass/Sealer	Concrete	Sealer	Glass	Steel/Wood	u/s Struct. - Varies	
Waiting Area	202	Concrete	VCT	GWB	Rubber	GWB	Paint	GWB	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Staff/Copy/Coffee	203	Concrete	Stain Seal	GWB	Rubber	Wood/Rubber	Conc/Wood	Sealer/Stain	Glass	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies	
Elevator Lobby	204	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB/Glass	Paint/Glass	GWB	Paint	Concrete	Sealer	Steel/Wood	u/s Struct. - Varies
Meeting	205	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB/Glass	Paint/Glass	GWB	Paint	Concrete	Sealer	Steel/Wood	u/s Struct. - Varies
Office Area	206	Concrete	Sealer	GWB	Rubber	GWB*	Paint	Painted	GWB*	Paint	Paint	Steel/Wood	u/s Struct. - Varies	GWB* Half wall guard wall to warehouse area	
Mezzanine Office Area	206C	Concrete	Sealer	GWB	Rubber	GWB*	Paint	Painted	GWB*	Paint	Paint	Steel/Wood	u/s Struct. - Varies		
<b>Third Floor</b>															
Stair One	301	Concrete	Sealer	n/a	-	-	-	-	-	-	-	-	-	n/a	
Elevator Lobby	302	Concrete	Carpet	GWB/Conc.	Rubber	GWB	Paint	GWB	Painted	GWB	Painted	Steel/Wood	u/s Struct. - Varies		
Executive Office	303	Concrete	Carpet	GWB/Conc.	Rubber	GWB	Paint	GWB	Painted	GWB/Glass	Paint/Glass	Steel/Wood	u/s Struct. - Varies		
Executive Office	304	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB	Painted	GWB	Painted	Steel/Wood	u/s Struct. - Varies		
Corridor	305	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB	Painted	GWB	Painted	Steel/Wood	u/s Struct. - Varies		
W/C	306	Concrete	Porcelain tile	GWB	Ceramic	GWB	Ceramic tile	GWB	Ceramic tile	GWB	Ceramic tile	Steel/Wood	u/s Struct. - Varies		
Office/Meeting	307	Concrete	Carpet	GWB/Conc.	Rubber	GWB	Paint	GWB	Paint	GWB/Conc	Paint/Sealer	Steel/Wood	u/s Struct. - Varies		
Corridor	308	Concrete	Carpet	GWB	Rubber	GWB	Paint	GWB	Paint	GWB	Paint	Steel/Wood	u/s Struct. - Varies		
Office Meeting	308	Concrete	Carpet	GWB/Conc.	Rubber	GWB	Paint	GWB	Paint	Concrete	Sealer	Steel/Wood	u/s Struct. - Varies		

R101-02153

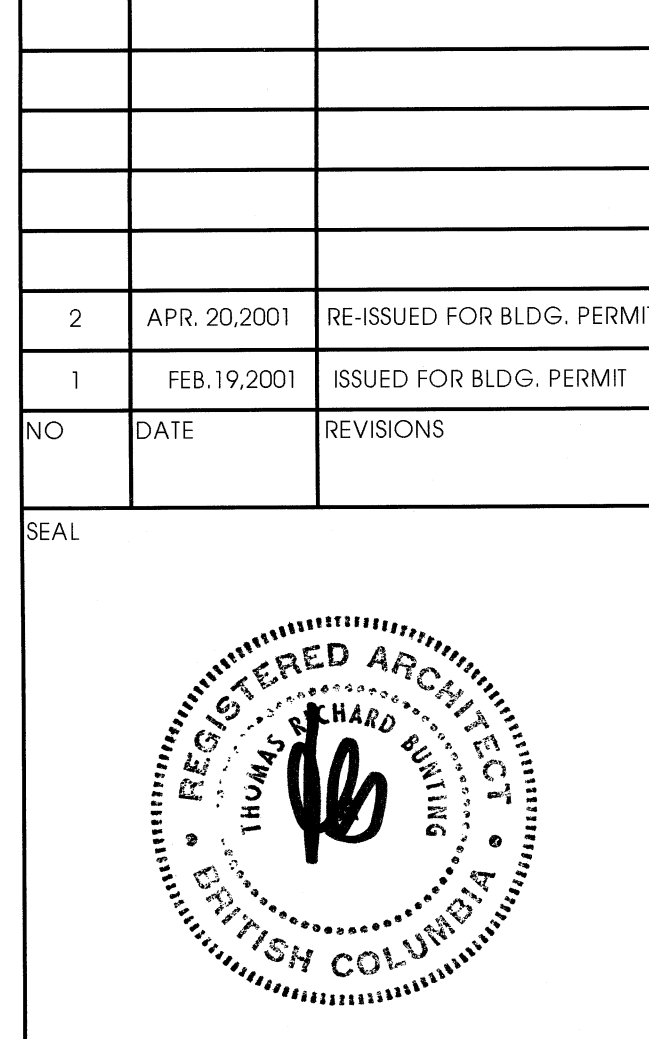


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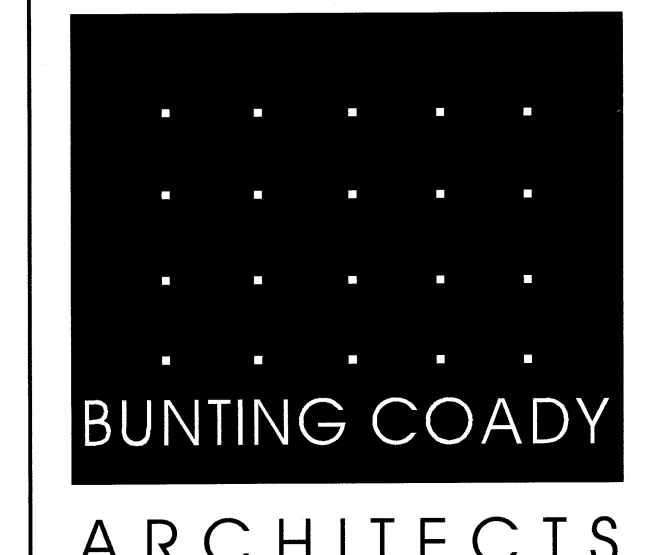
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NO.	DATE	REVISIONS
2	APR. 20, 2001	RE-ISSUED FOR BLDG. PERMIT
1	FEB. 19, 2001	ISSUED FOR BLDG. PERMIT



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**WALL, DOOR AND FINISH SCHEDULES**



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**A111**

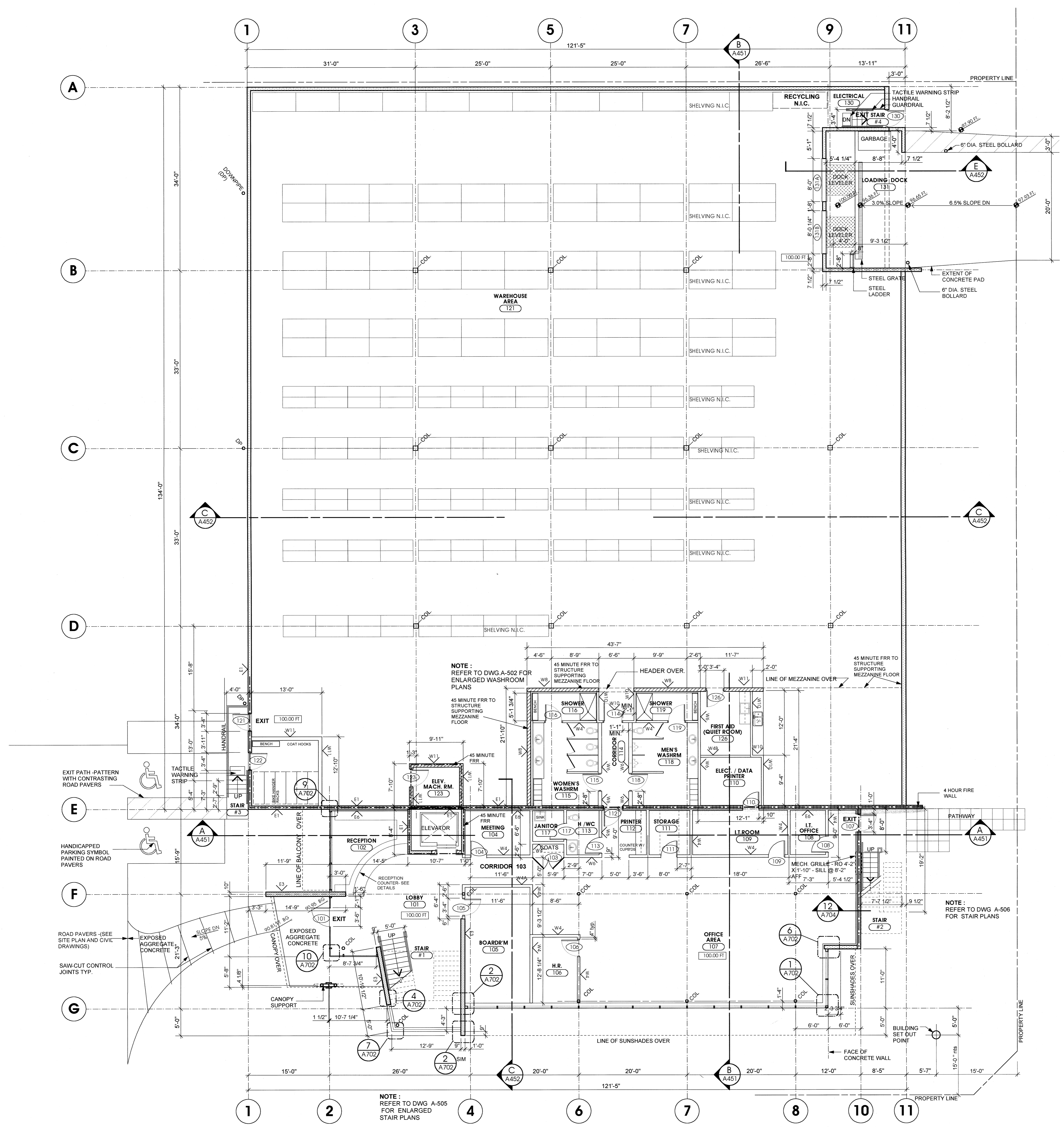
SCALE AS NOTED PROJECT 0019  
DRAWN DATE FEBRUARY 2001  
E:MM



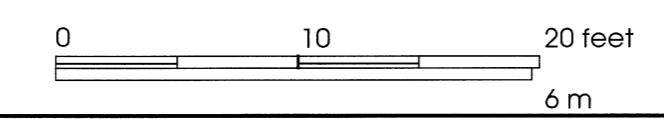
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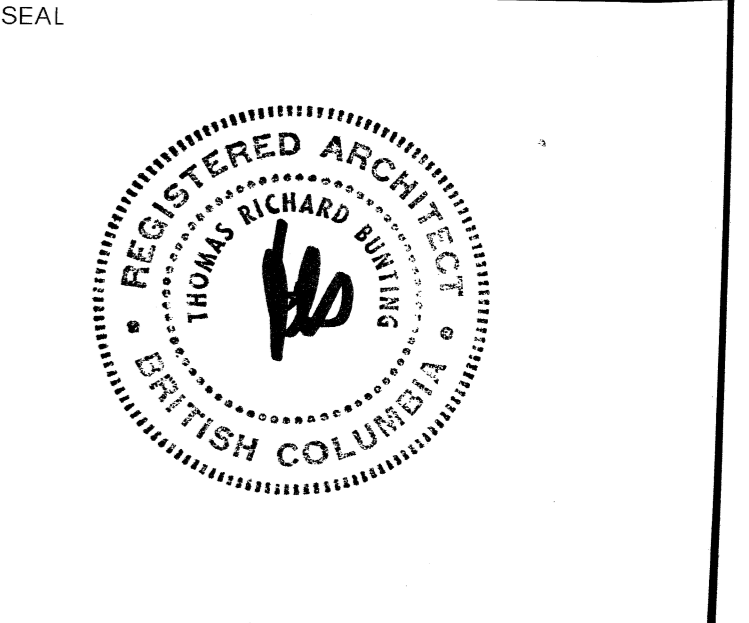
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**GROUND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

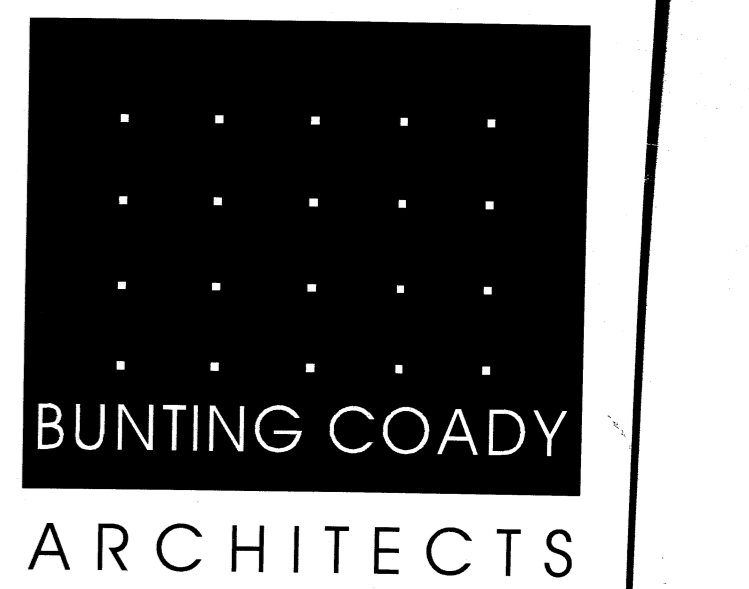


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**GROUND FLOOR PLAN**



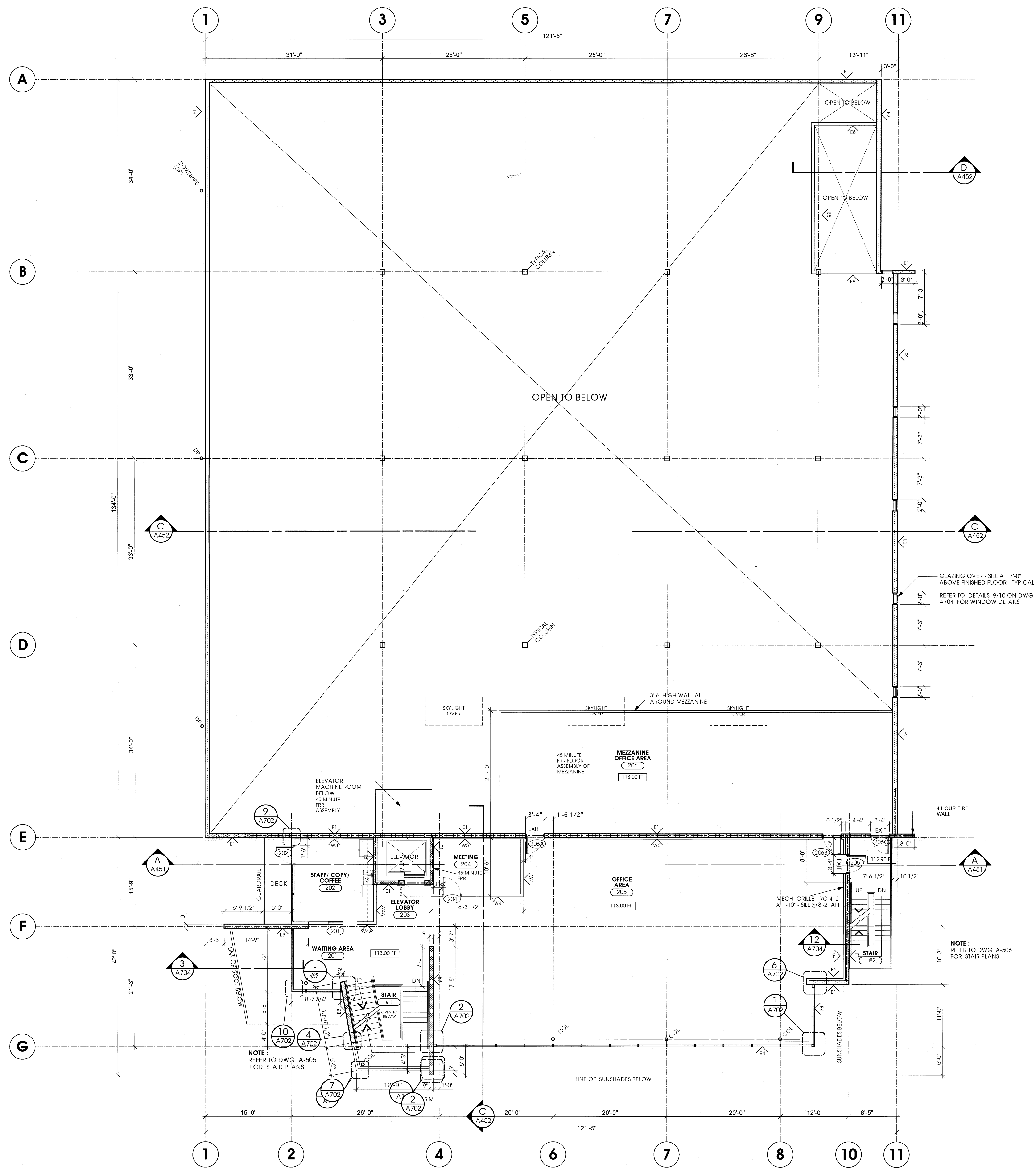
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BLD01-02153



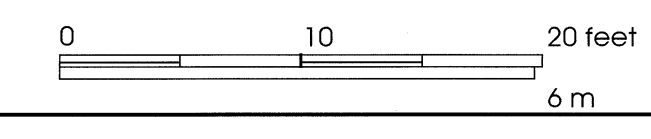
**A201**

SCALE	PROJECT
AS NOTED	0019
DRAWN	DATE
E. RMM	FEBRUARY 2001



SECOND FLOOR PLAN

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

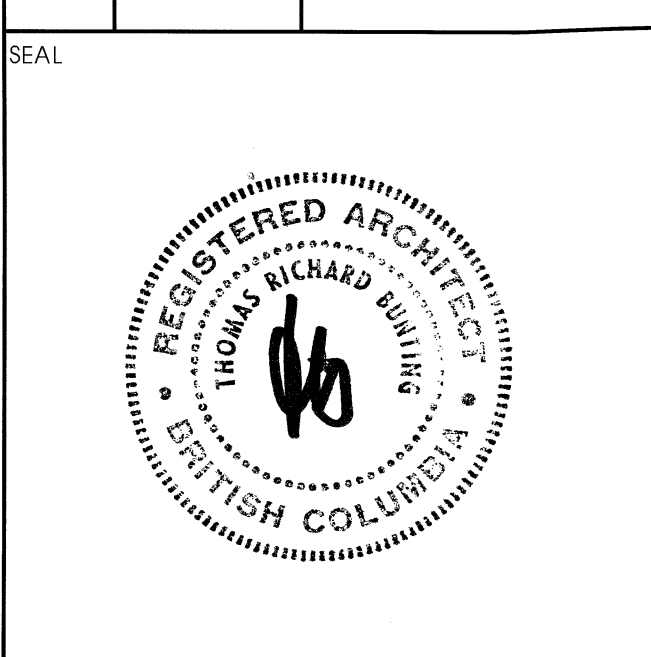


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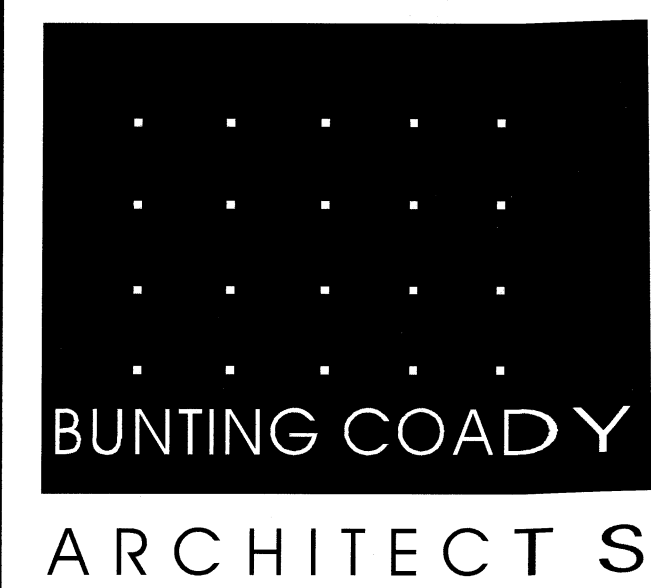
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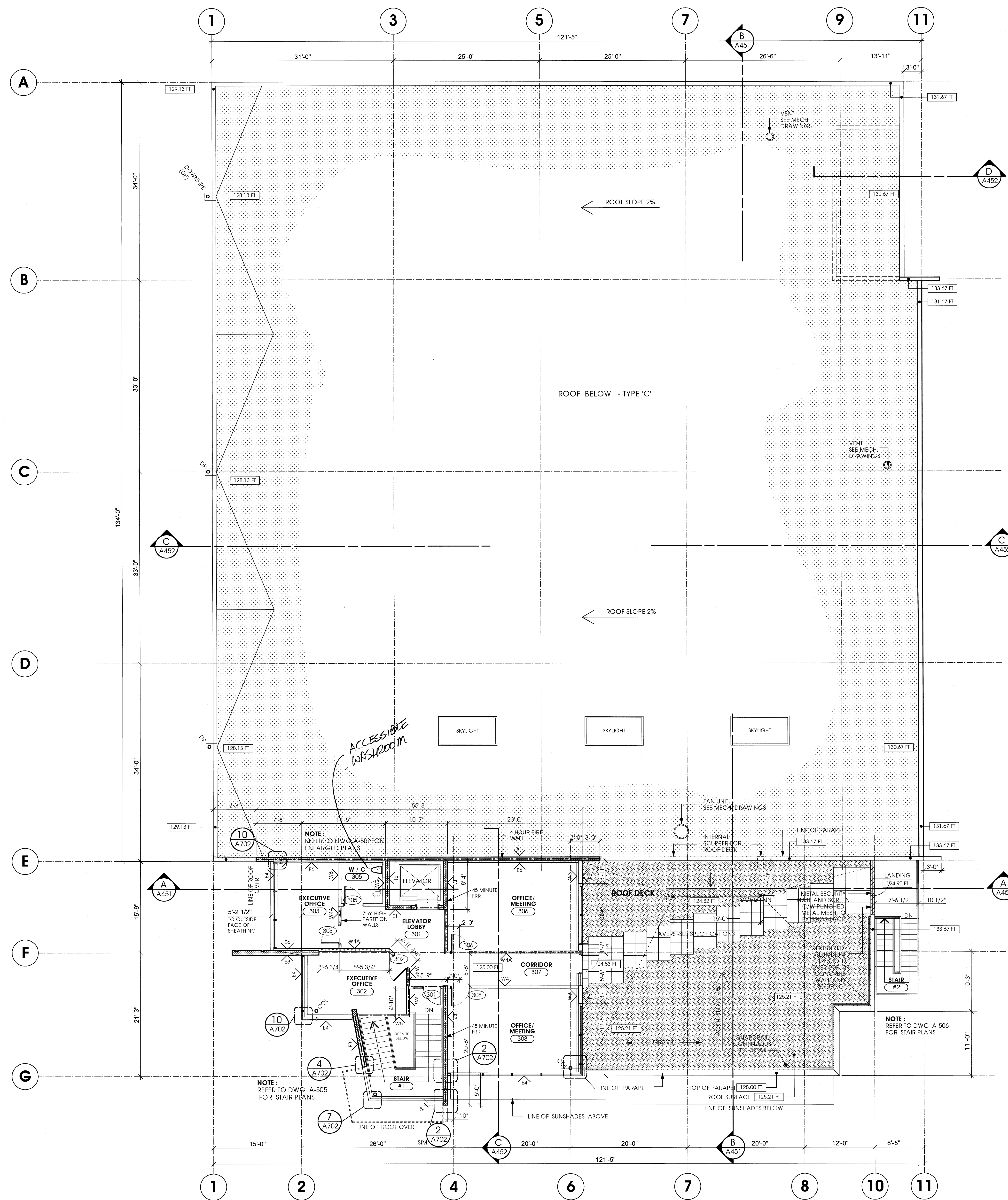
BLD 01 - 02153



**A202**

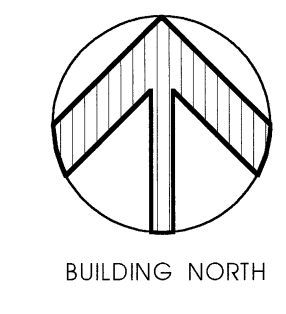
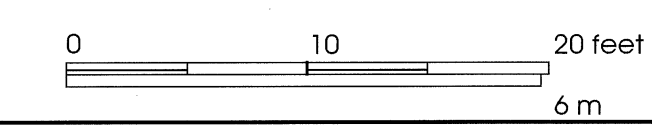
SCALE	PROJECT
AS NOTED	0019
DRAWN	DATE
B. J. RMM	FEBRUARY 2001





THIRD FLOOR PLAN

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

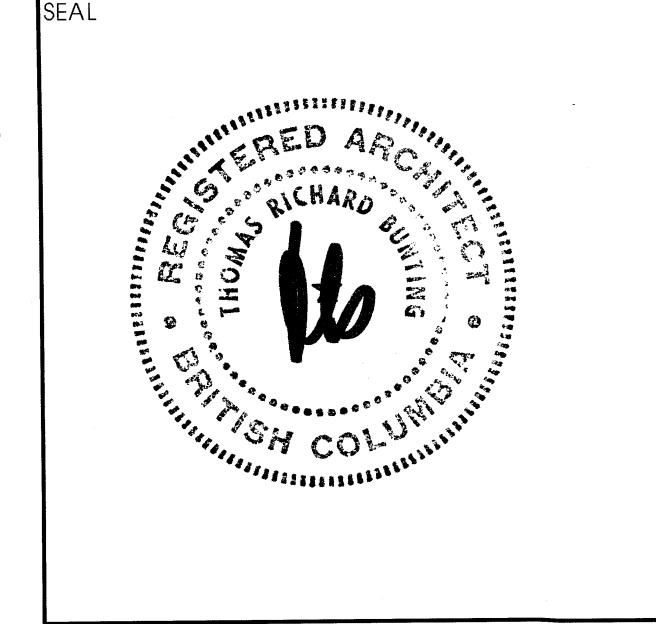


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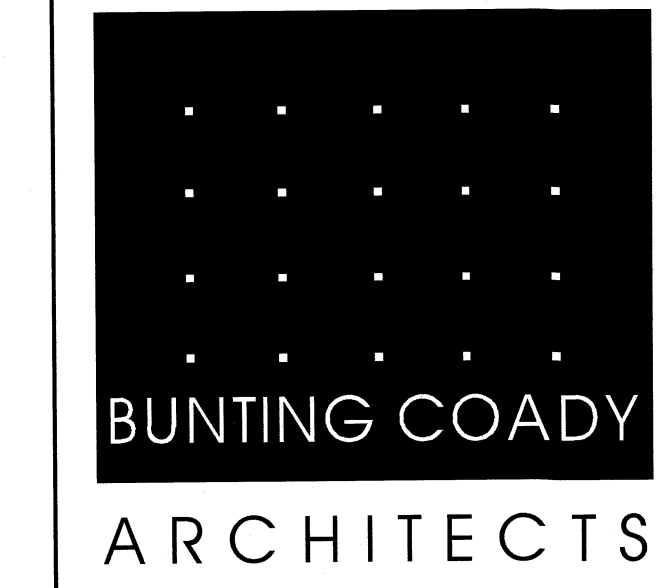
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THIRD FLOOR PLAN



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A203

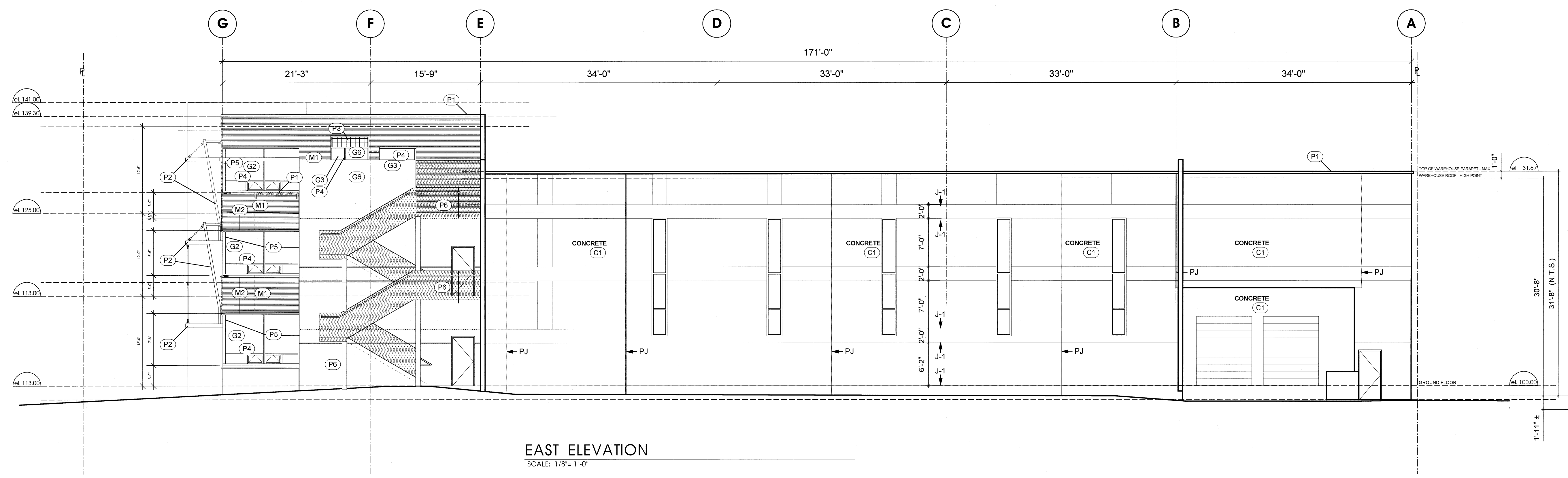
SCALE	PROJECT
AS NOTED	0019
DRAWN	DATE
E / BMM	FEBRUARY 2001



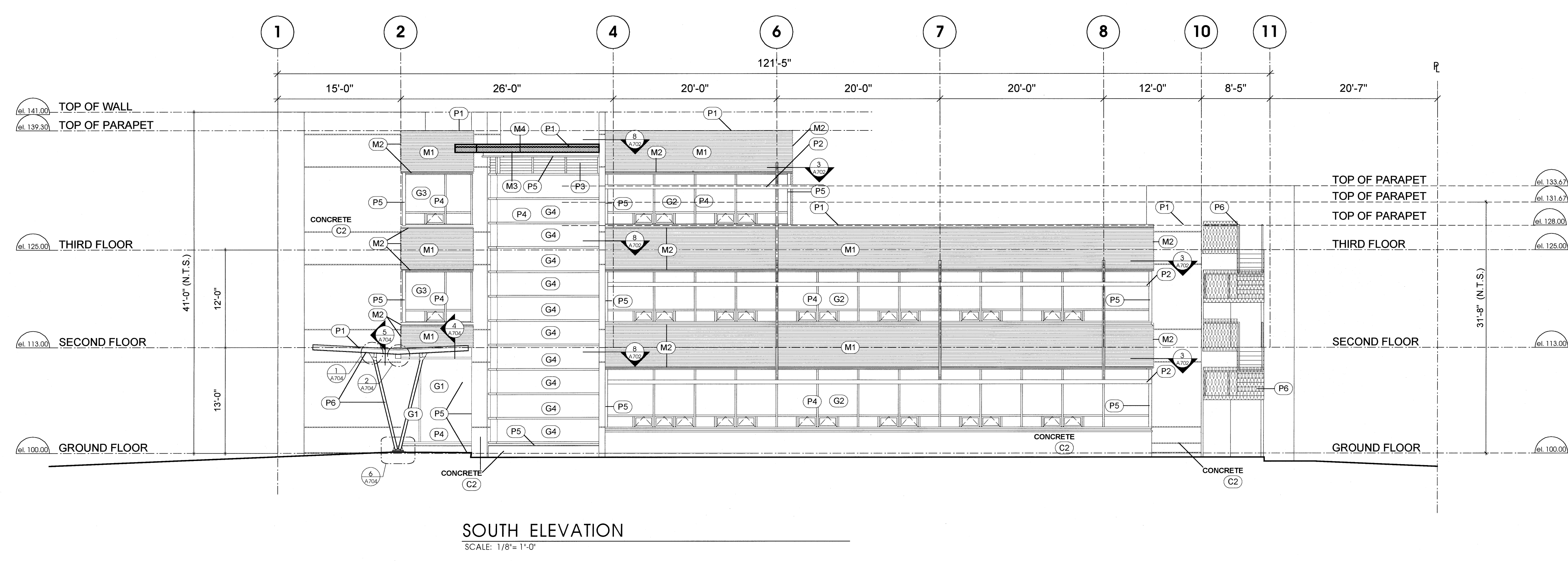
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**EAST ELEVATION**  
SCALE: 1/8" = 1'-0"



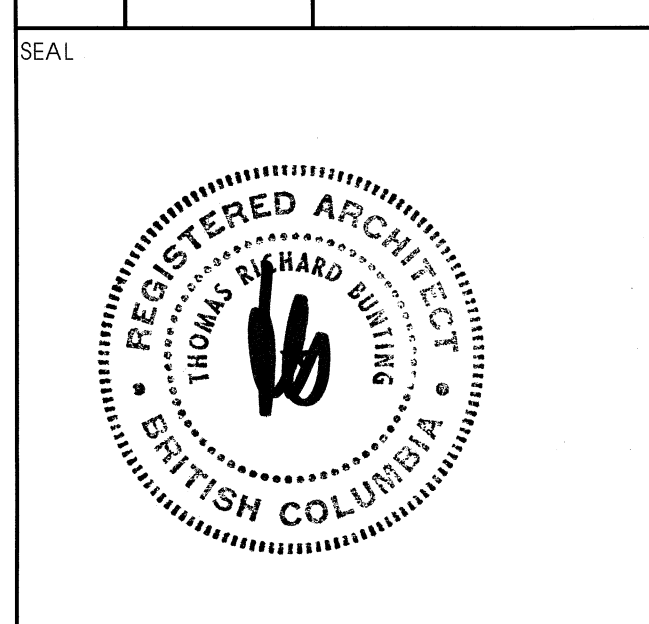
**SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"

**LEGEND**  
P-J PANEL JOINT Sim to 5/A201 & See structural dwgs.  
J-1 REVEAL JOINT See 5/A201

TAG	MATERIAL	FINISH	COLOR
C-1	CONCRETE (GRIND SMOOTH & SACK FINISH)	ACRYLIC PAINT SYSTEM	P-L 2251 Applioosa
C-2	CONCRETE (GRIND SMOOTH & SACK FINISH)	MEDIUM SANDBLAST	P-L 2253 Foam
P-1	METAL FLASHING	PREFINISHED PAINT (CUSTOM COLOR)	BM 1267 Oxiblood
P-2/P-3	SUNSHADE FRAME/VANES	ALKYD ENAMEL PAINT (CUSTOM COLOR)	P-L 2253 Foam
P-4	ALUMINUM GLAZING FRAMES		Clear Anodized Aluminum
P-5	METAL FLASHING @ GLAZING		Clear Anodized Aluminum
P-6	MISC METAL	ALKYD ENAMEL PAINT (CUSTOM COLOR)	BM 1267 Oxiblood
M-1	METAL CLADDING-HORIZ. CORRUGATED	PREFINISHED PAINT (CUSTOM COLOR)	BM 1267 Oxiblood
M-2	METAL FLASHING	PREFINISHED PAINT (CUSTOM COLOR)	BM 1267 Oxiblood
M-3	RIBBED METAL PANEL SOFFIT	PREFINISHED PAINT (CUSTOM COLOR)	P-L 2253 Foam
M-4	METAL FLASHING FACIA	PREFINISHED PAINT (CUSTOM COLOR)	P-L 2253 Foam
G-1	VISION GLASS - DOUBLE GLAZED	LOW 'E'	Clear
G-2	VISION GLASS - DOUBLE GLAZED	REFLECTIVE	Green
G-3	VISION GLASS - DOUBLE GLAZED	REFLECTIVE	Silver on Green
G-4	TEMPERED & LAMINATED - DOUBLE GLAZED	REFLECTIVE	Silver on Green
G-5	TEMPERED & LAMINATED - DOUBLE GLAZED		Clear
G-6	TEMPERED & LAMINATED		Clear

NOTE: ALL GROUND LEVEL GLAZING MUST BE LAMINATED SAFETY GLASS

NO	DATE	REVISIONS
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1	FEB. 19, 2001	ISSUED FOR BLDG. PERMIT

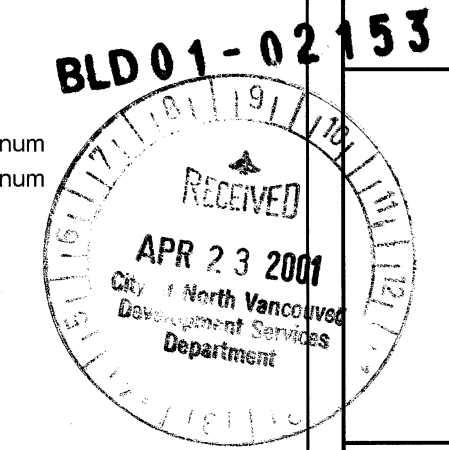


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**SOUTH (FRONT) ELEVATION**



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**A401**

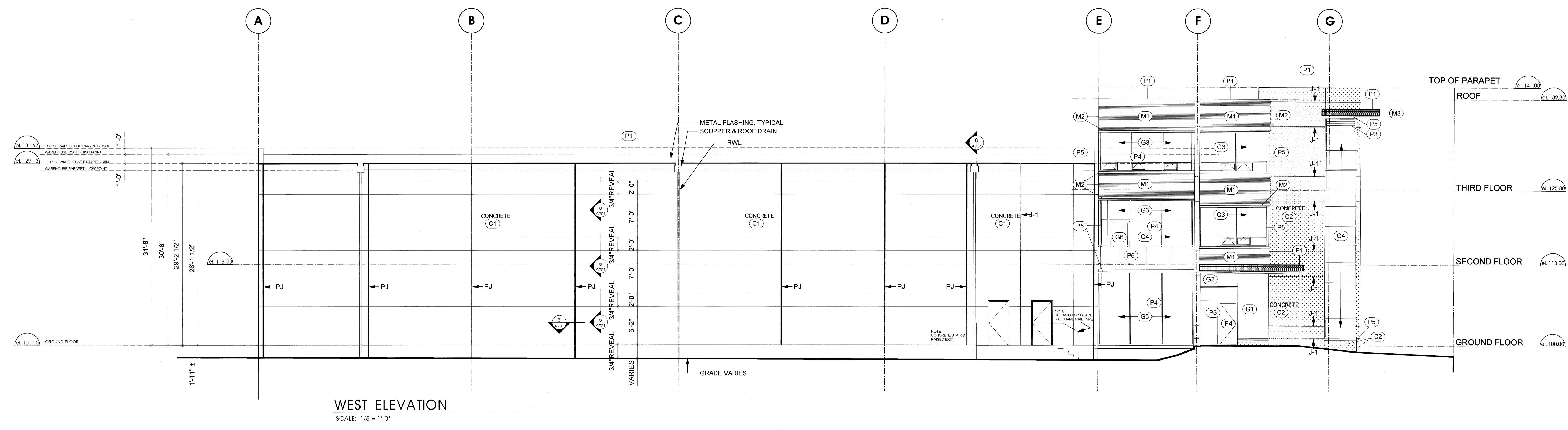
SCALE: 1/8" = 1'-0"  
PROJECT: 0019  
DRAWN: E/RMM  
DATE: JANUARY 2001

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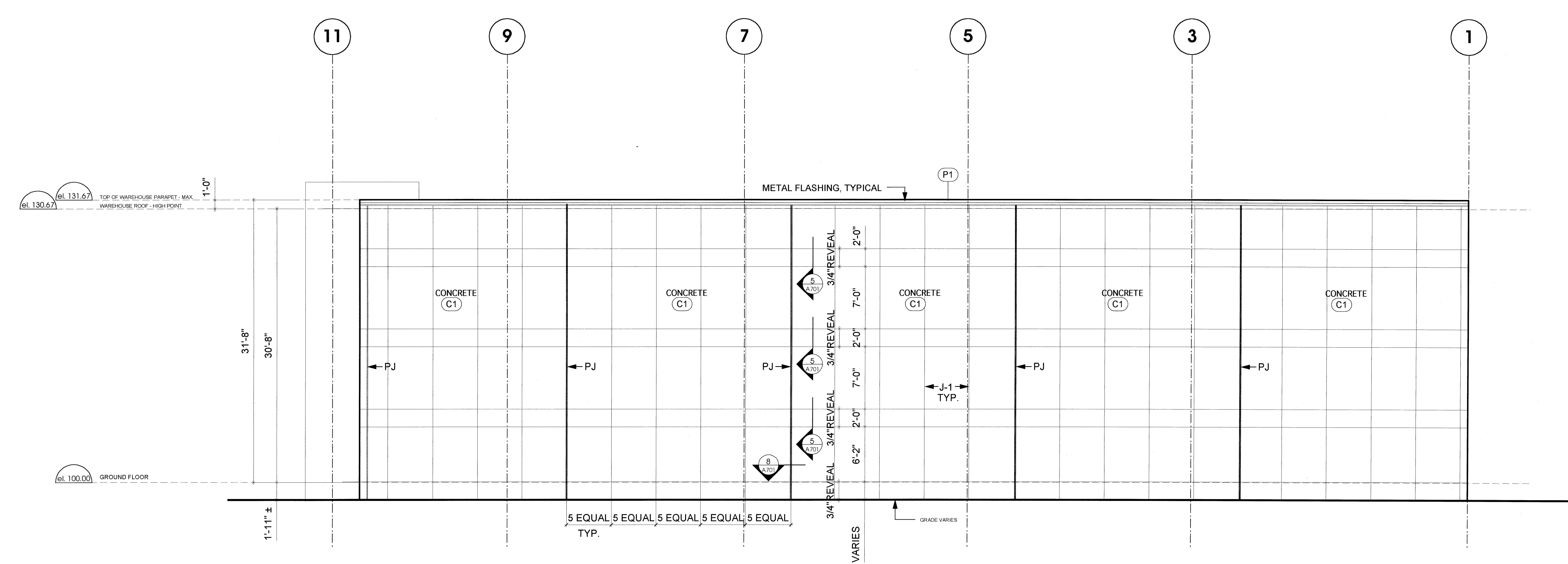
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**WEST ELEVATION**  
SCALE: 1/8" = 1'-0"



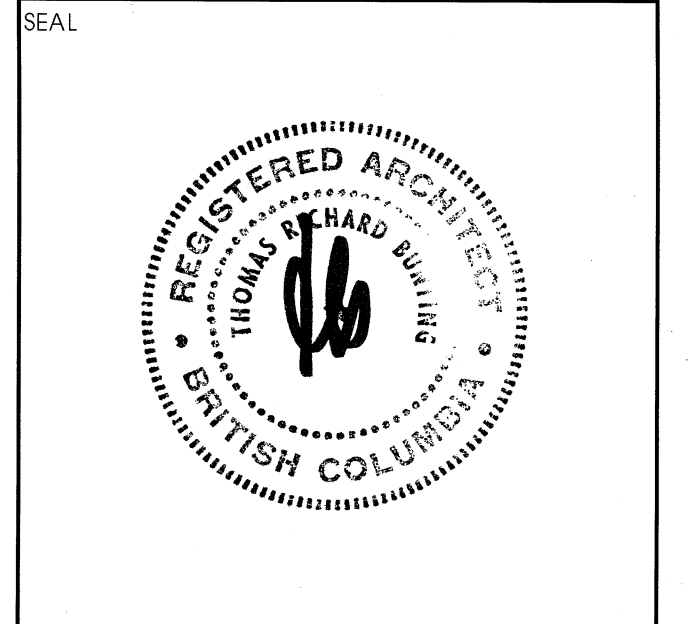
**NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"

**LEGEND**  
P-J PANEL JOINT  
J-1 REVEAL JOINT  
Sim to 8/A201 & See structural dwgs.  
See 5/A201

TAG	MATERIAL	FINISH	COLOR
C-1	CONCRETE (GRIND SMOOTH & SACK FINISH)	ACRYLIC PAINT SYSTEM	P-L 2251 Appaloosa
C-2	CONCRETE (GRIND SMOOTH & SACK FINISH)	MEDIUM SANDBLAST	P-L 2253 Foam
P-1	METAL FLASHING	PREFINISHED PAINT (CUSTOM COLOR)	BM 1267 Outboard
P-2/P-3	SUNSHADE FRAME/VANES	ALKYD ENAMEL PAINT (CUSTOM COLOR)	P-L 2263 Foam
P-4	ALUMINUM GLAZING FRAMES	Clear Anodized Aluminum	
P-5	METAL FLASHING @ GLAZING	ALKYD ENAMEL PAINT (CUSTOM COLOR)	BM 1267 Outboard
P-6	MISC METAL	ALKYD ENAMEL PAINT (CUSTOM COLOR)	BM 1267 Outboard
M-1	METAL CLADDING-HORIZ. CORRUGATED	PREFINISHED PAINT (CUSTOM COLOR)	BM 1267 Outboard
M-2	METAL FLASHING	PREFINISHED PAINT (CUSTOM COLOR)	BM 1267 Outboard
M-3	RIBBED METAL PANEL SOFFIT	PREFINISHED PAINT (CUSTOM COLOR)	P-L 2253 Foam
M-4	METAL FLASHING FACIA	PREFINISHED PAINT (CUSTOM COLOR)	P-L 2253 Foam
G-1	VISION GLASS - DOUBLE GLAZED	LOW E'	Clear
G-2	VISION GLASS - DOUBLE GLAZED	REFLECTIVE	Green
G-3	VISION GLASS - DOUBLE GLAZED	REFLECTIVE	Silver on Green
G-4	TEMPERED & LAMINATED - DOUBLE GLAZED	REFLECTIVE	Silver on Green
G-5	TEMPERED & LAMINATED - DOUBLE GLAZED	REFLECTIVE	Clear
G-6	TEMPERED & LAMINATED	REFLECTIVE	Clear

NOTE: ALL GROUND LEVEL GLAZING MUST BE LAMINATED SAFETY GLASS

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**BUILDING ELEVATIONS**  
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**NORTH ELEVATION**



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Canada, V6B 1A7  
Tel (604) 685-9913  
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BLD 01 - 02 53



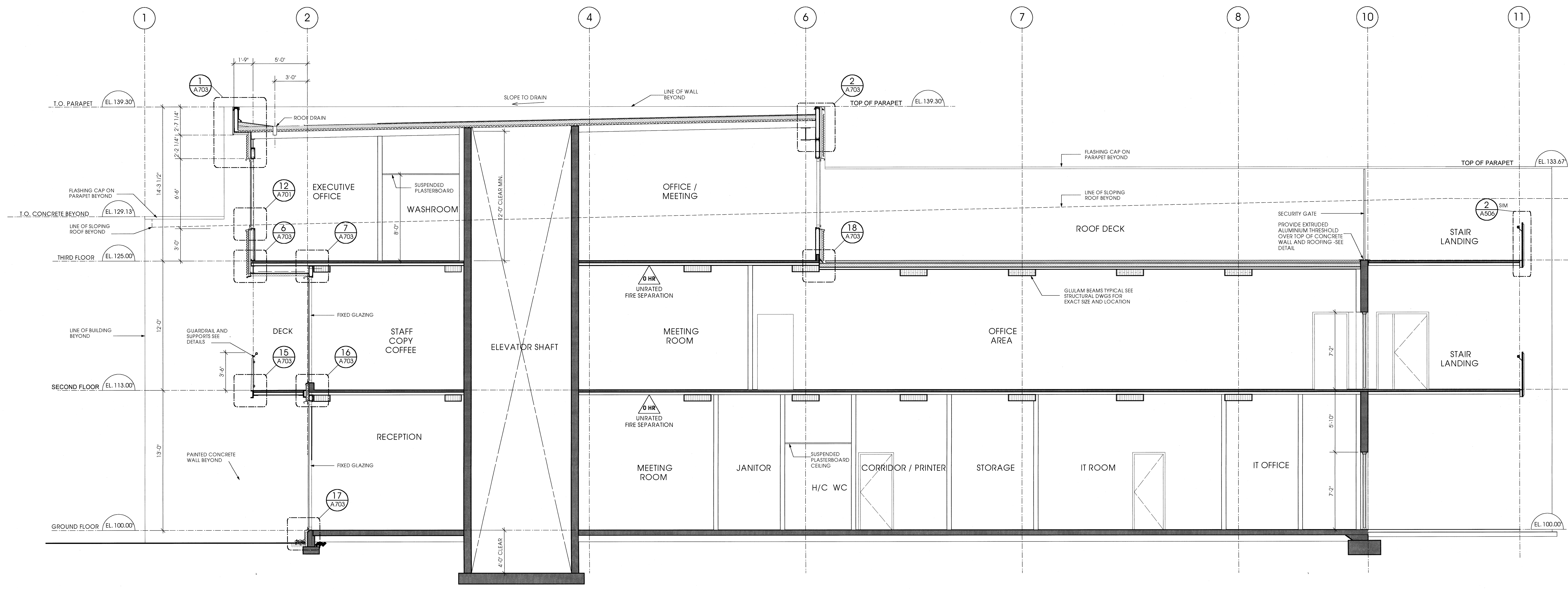
**A402**

SCALE	PROJECT
1/8" = 1'-0"	0019
DRAWN	DATE
8/8MM	JANUARY

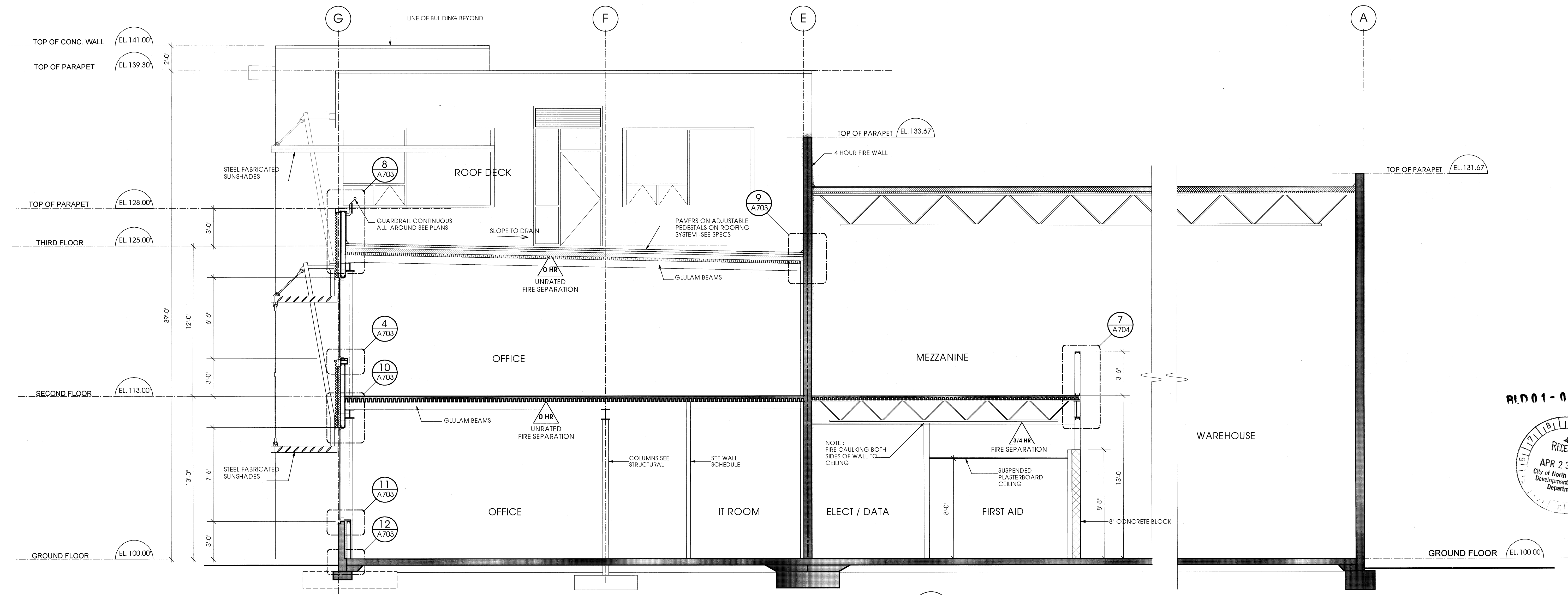
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**AA BUILDING SECTION**  
A201 SCALE: 1/4" = 1'-0"



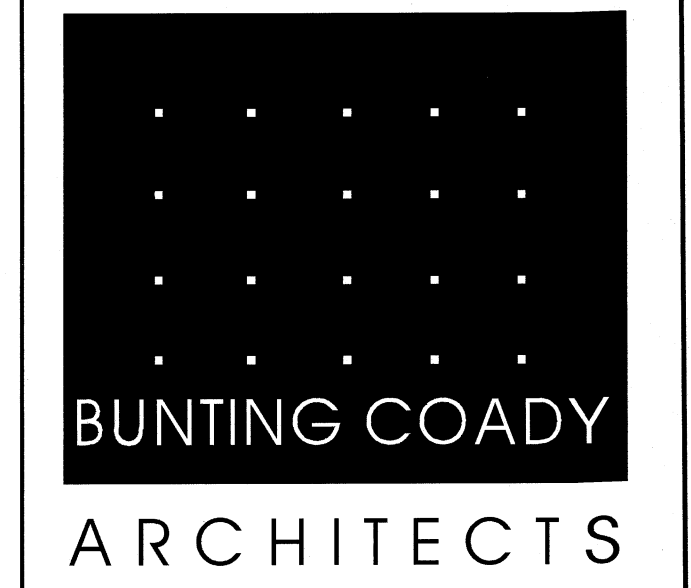
**BB BUILDING SECTION**  
A201 SCALE: 1/4" = 1'-0"

NO	DATE	REVISIONS
2	APR. 20.2001	RE-ISSUED FOR BLDG. PERMIT
1	FEB. 19.2001	ISSUED FOR BLDG. PERMIT



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**BUILDING SECTIONS**



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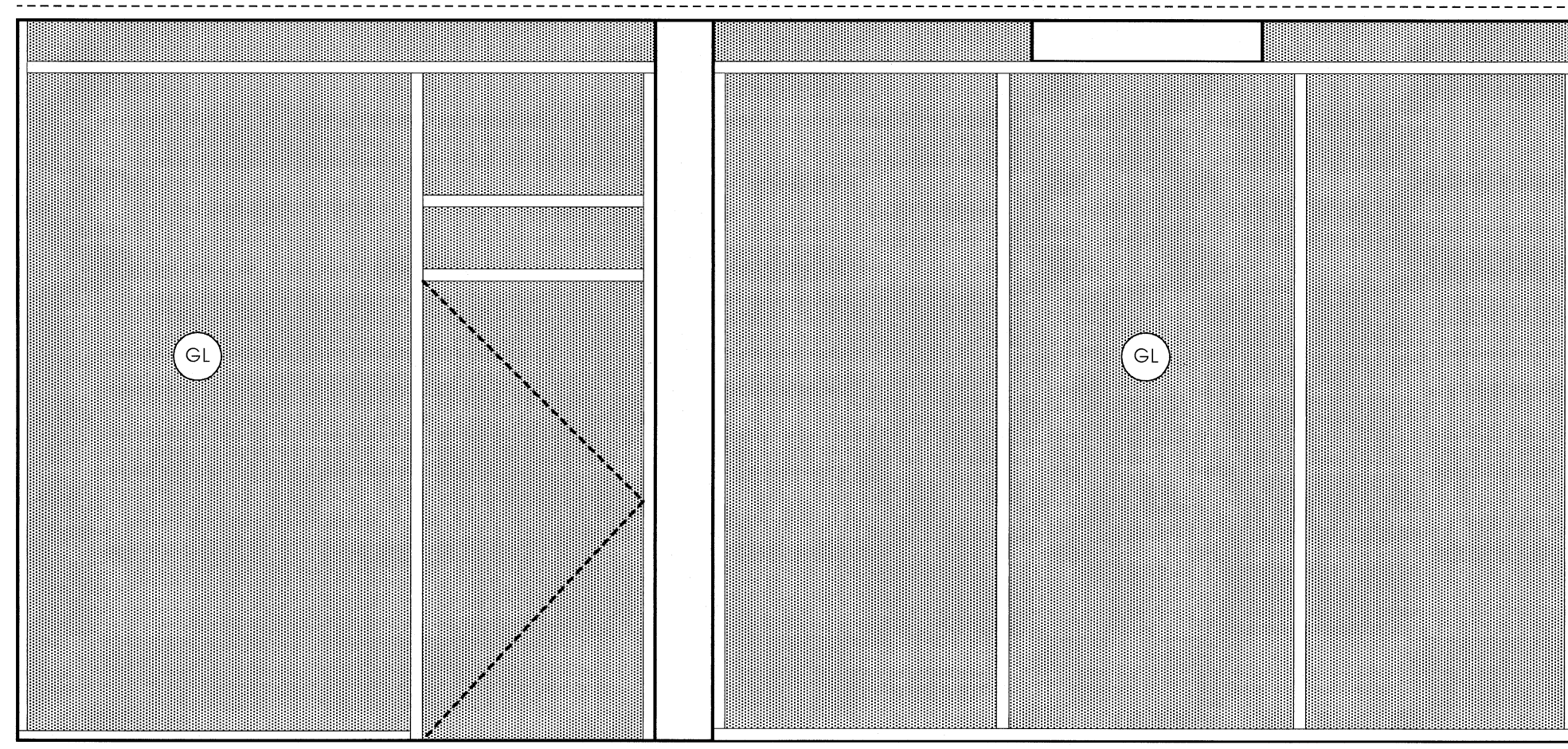
R1001-02153



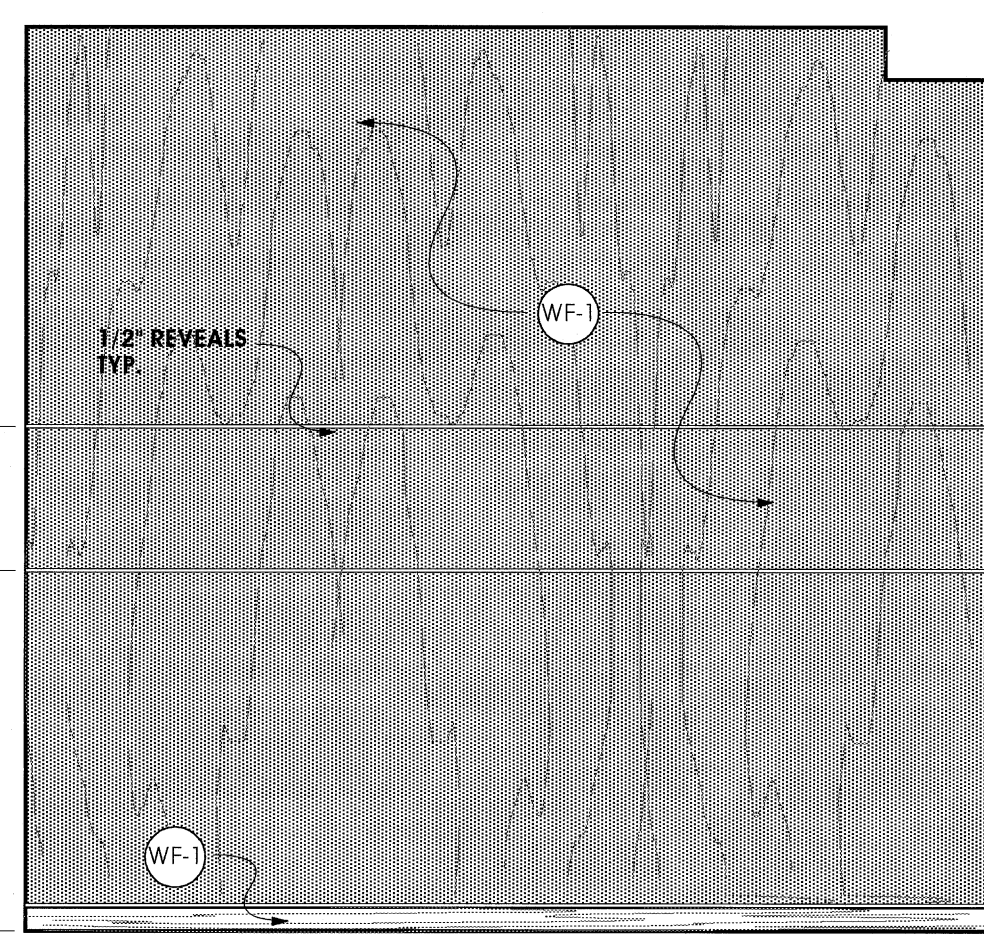
**A451**

SCALE	PROJECT
1/8" = 1'-0"	0019
DRAWN	DATE
RE:RAM	JANUARY

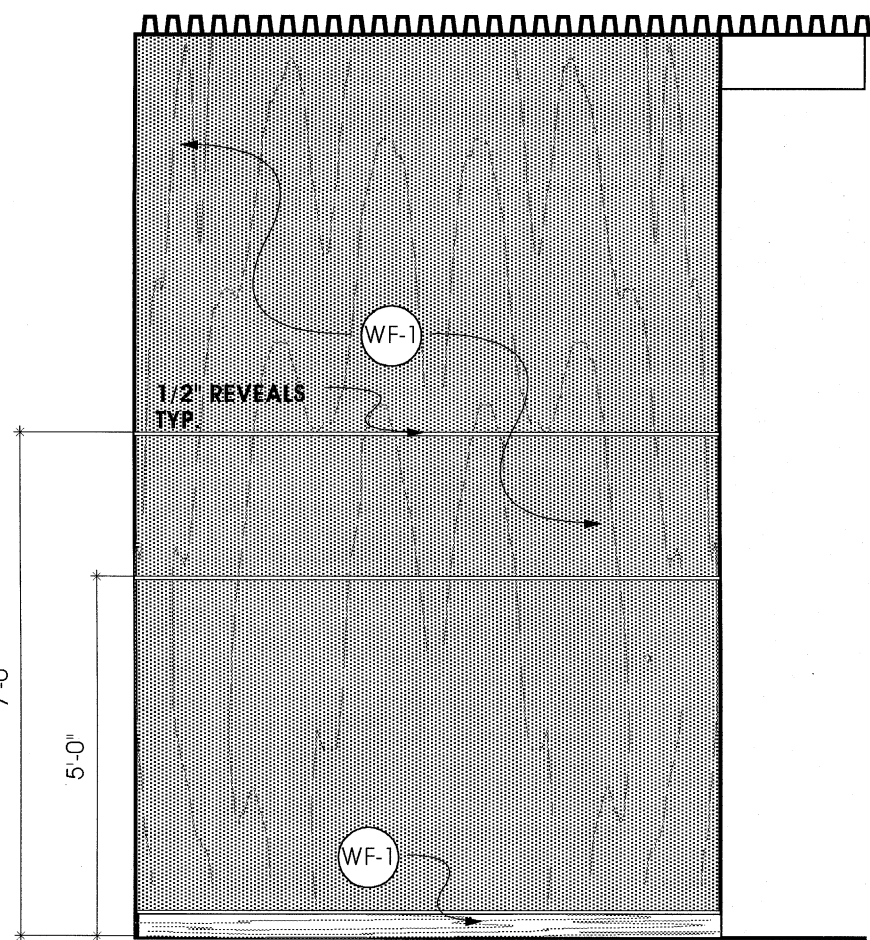




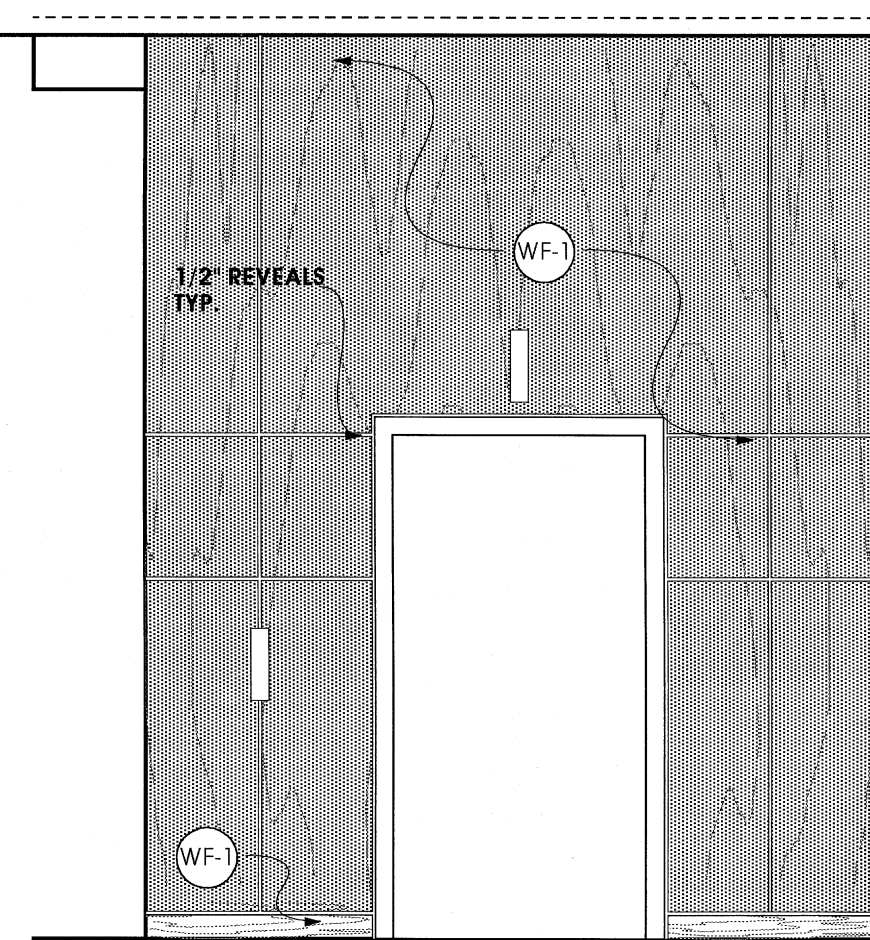
2 INTERIOR ELEVATION - LOBBY  
SCALE: 3/8"=1'-0"



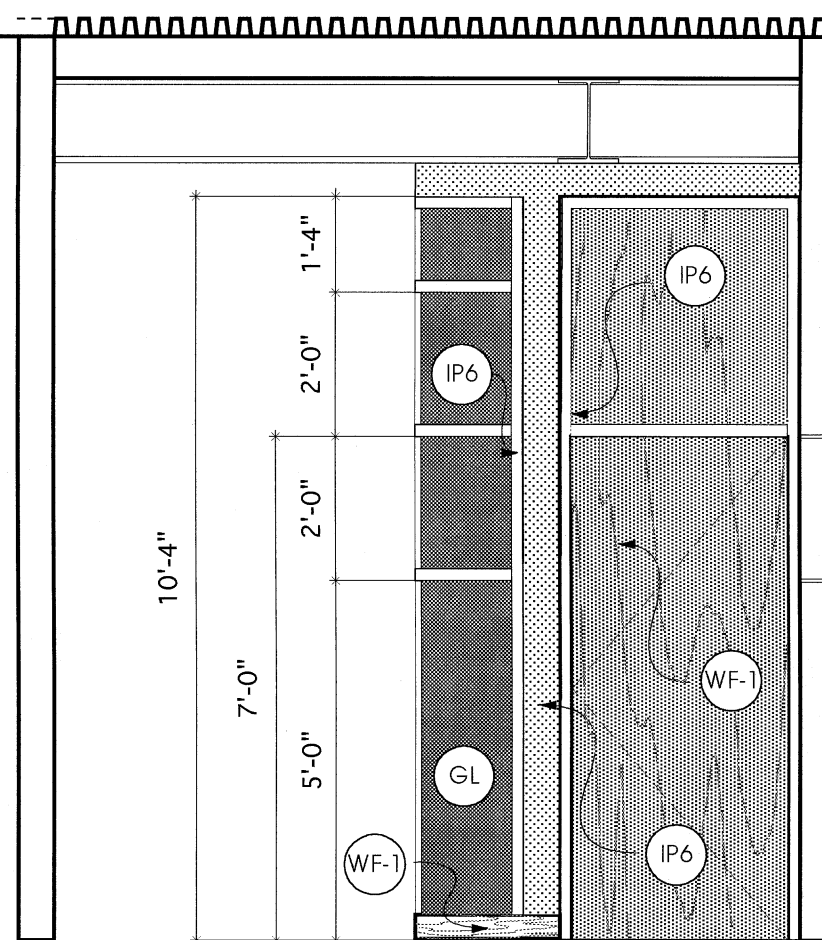
3 INTERIOR ELEVATION - LOBBY  
SCALE: 3/8"=1'-0"



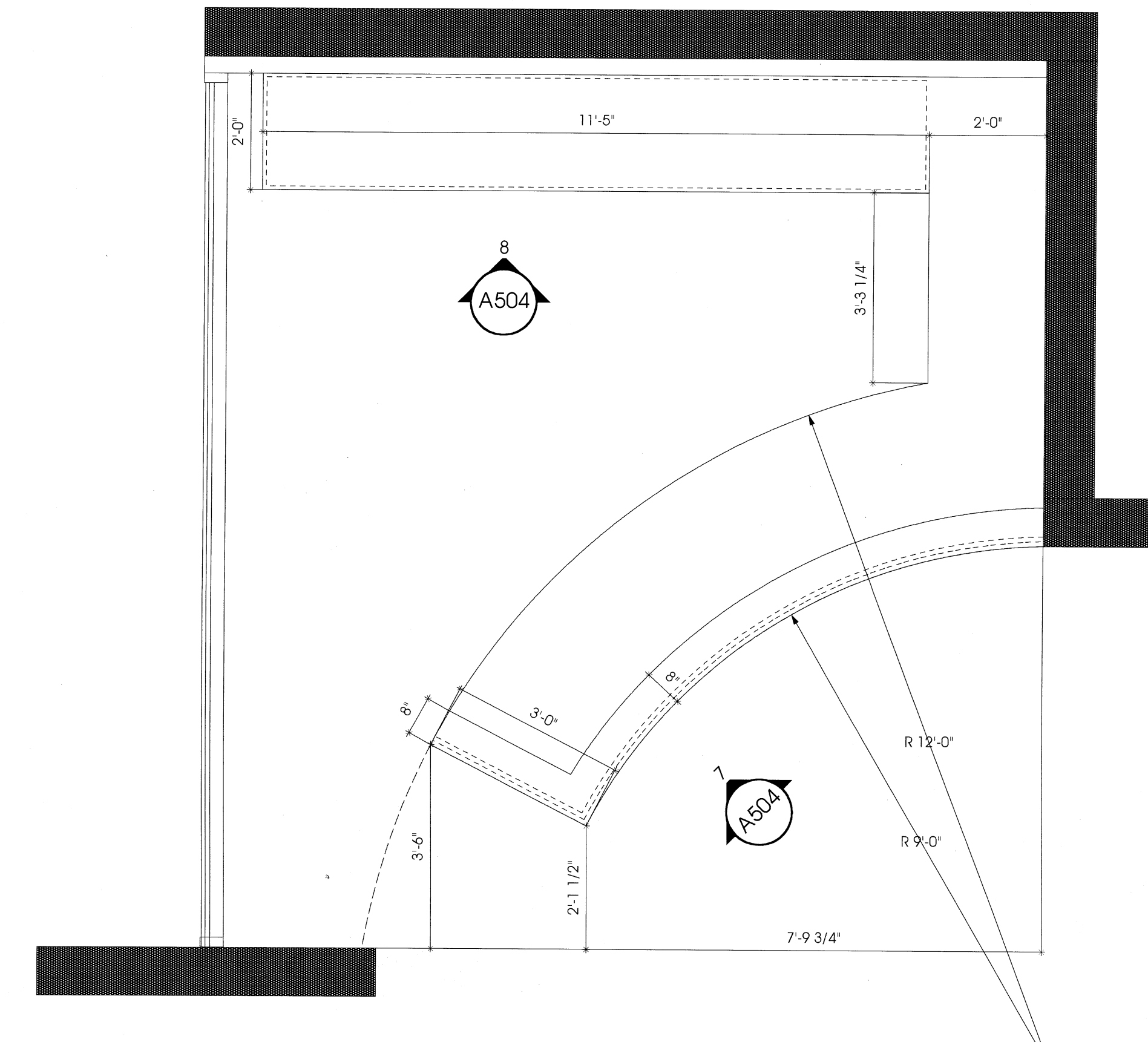
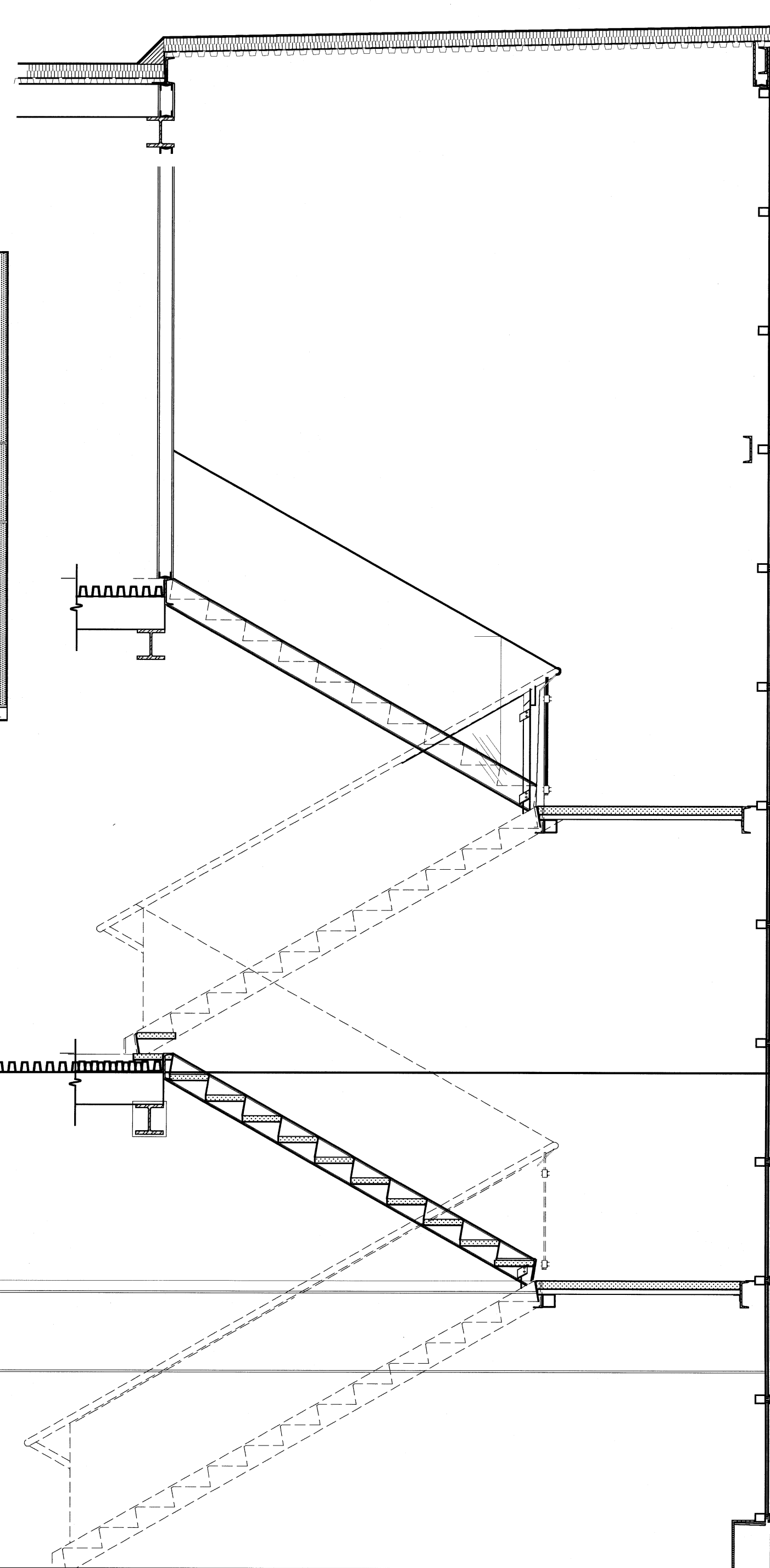
4 INTERIOR ELEVATION - LOBBY  
SCALE: 3/8"=1'-0"



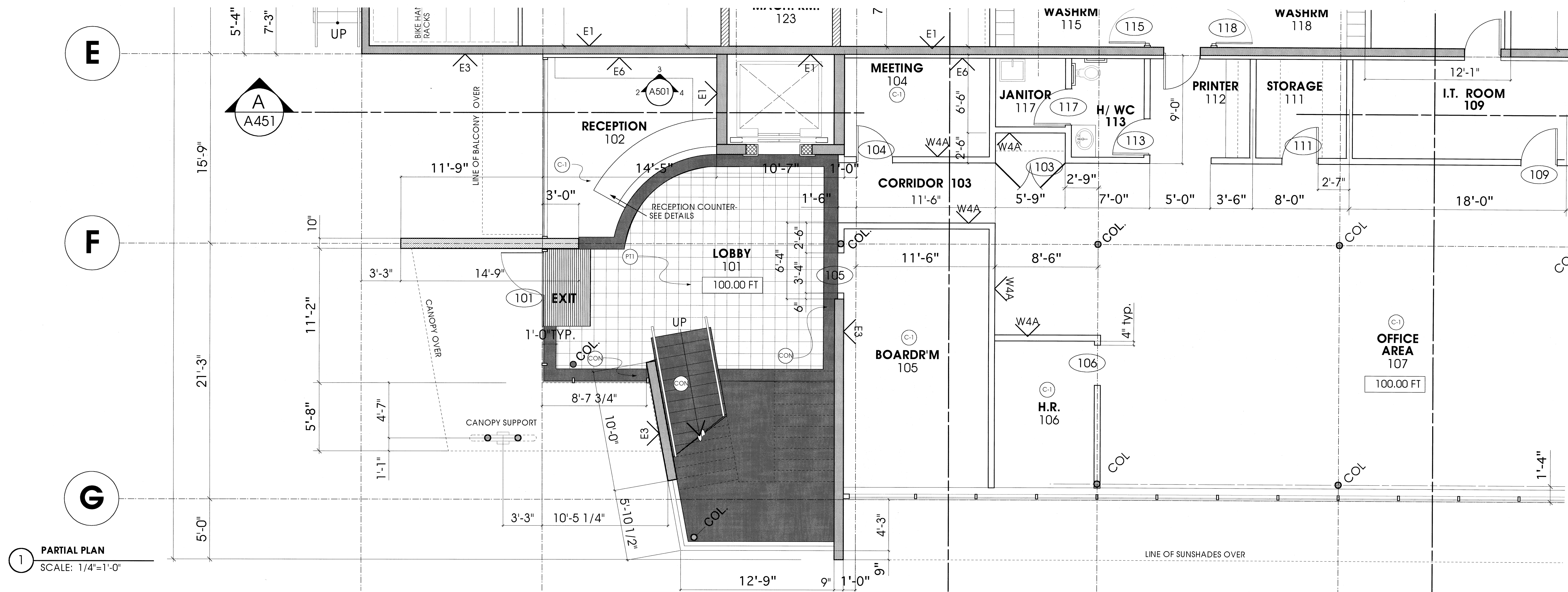
5 INTERIOR ELEVATION - LOBBY  
SCALE: 3/8"=1'-0"



6 INTERIOR ELEVATION - LOBBY STAIRS  
SCALE: 3/8"=1'-0"



7 PLAN - RECEPTION DESK  
SCALE: 1/2"=1'-0"



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

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NO.	DATE	REVISIONS
2	APR. 20.2001	RE-ISSUE FOR BLDG. PERMIT

SCALE



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DETAIL PLANS  
INTERIOR ELEVATIONS  
LOBBY/STAIRS

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11001-02153



**A501**

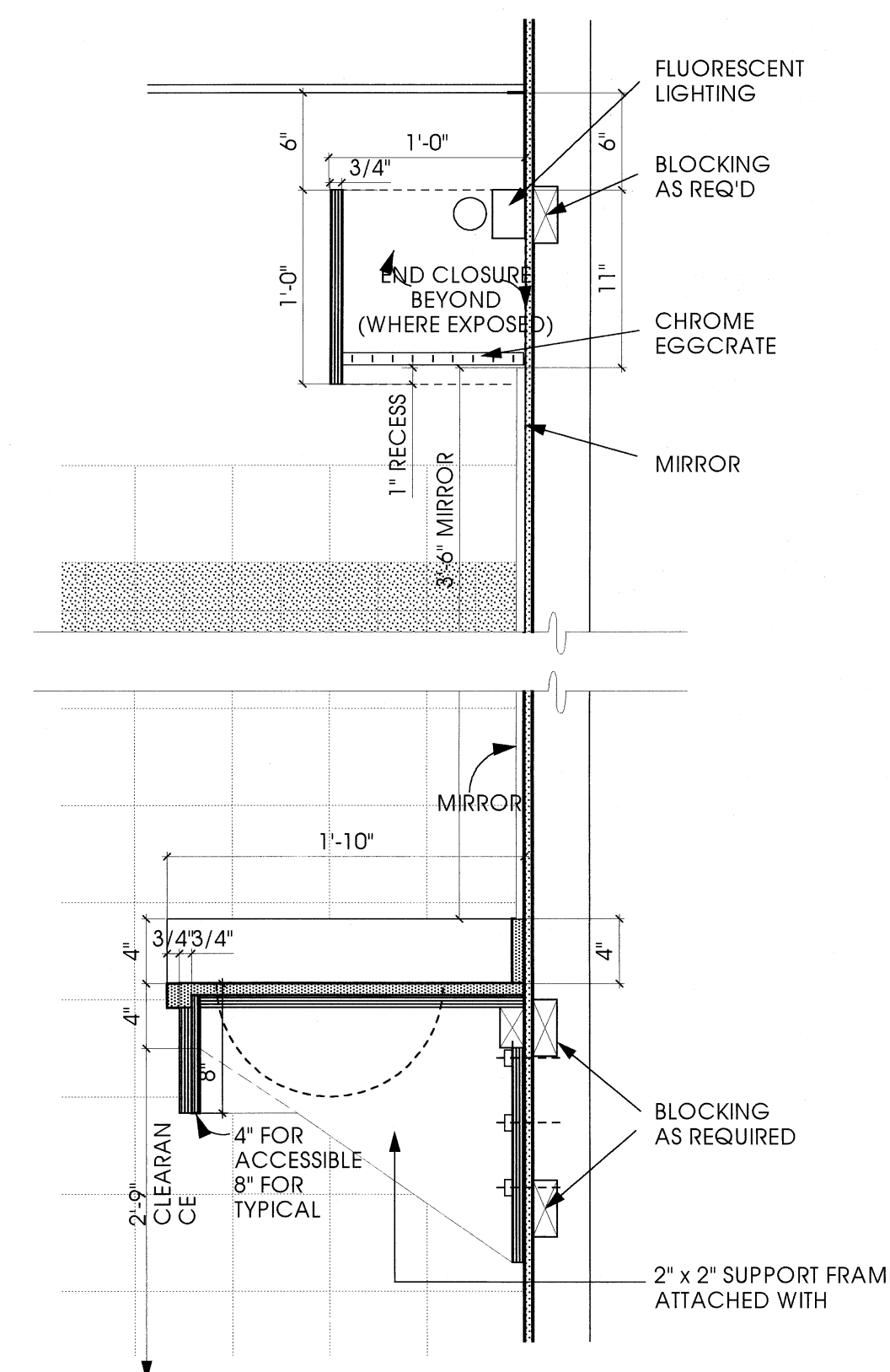
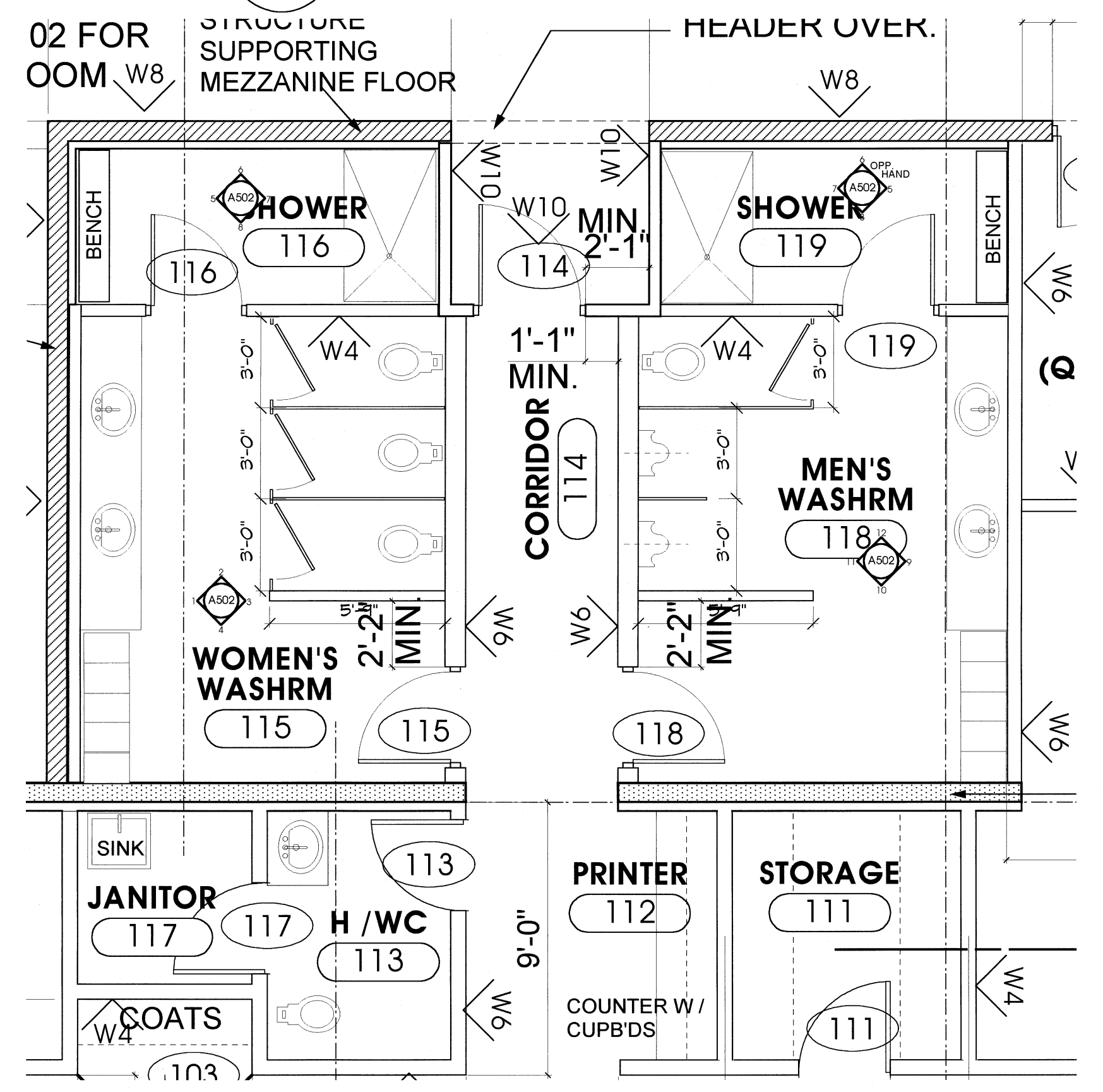
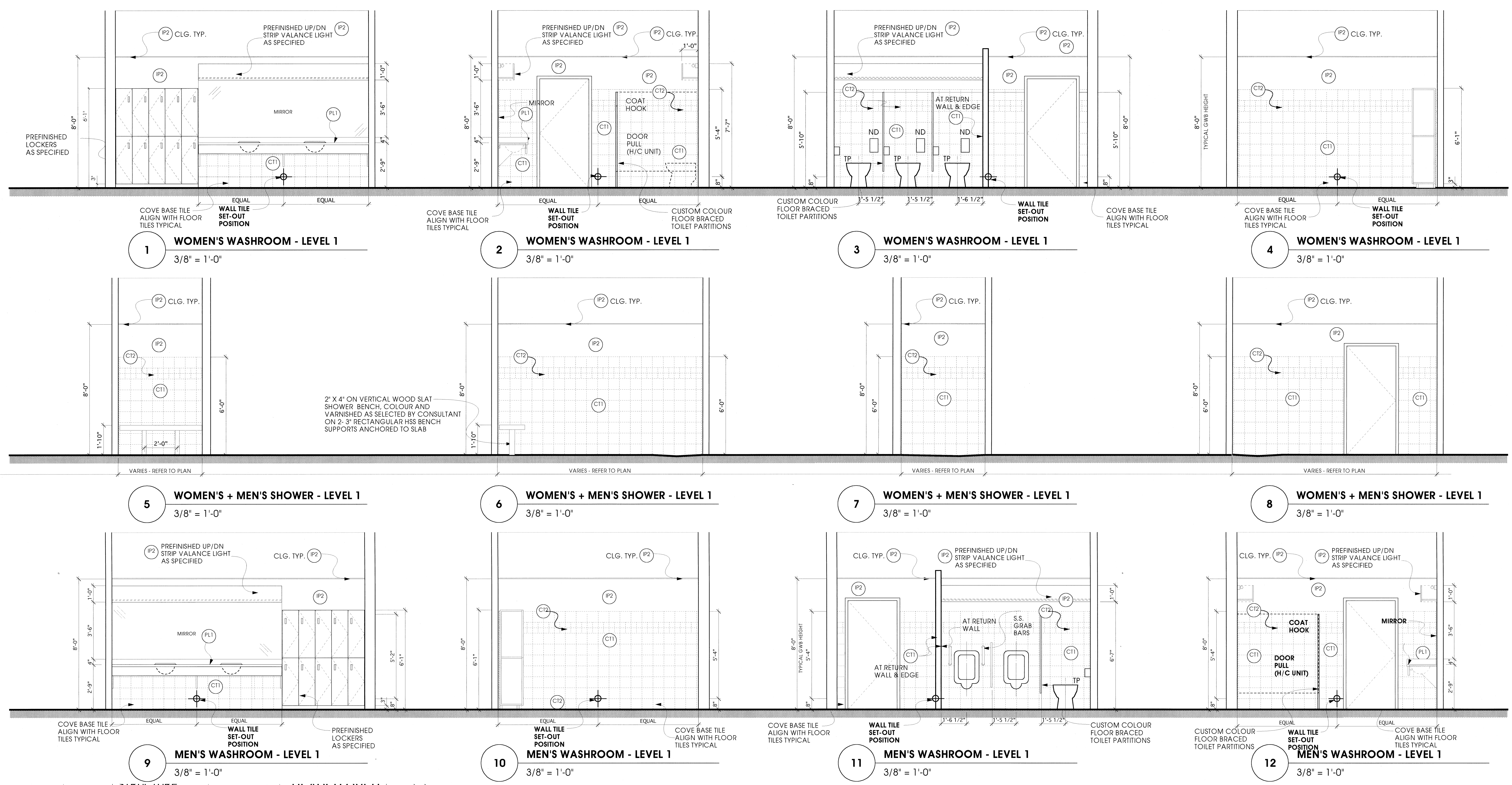
SCALE	PROJECT
AS NOTED	0019
DRAWN	DATE
RAM	30 JANUARY 2001

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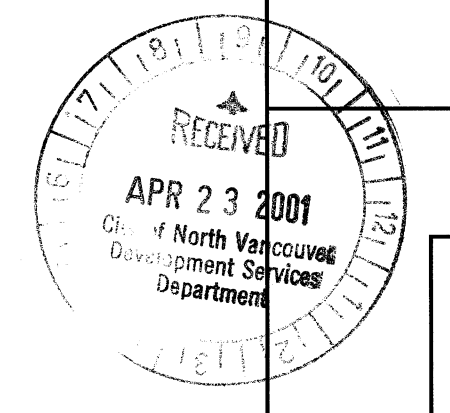
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**Interior Materials + Finish Schedule**  
For Maxem Holdings Incorporated  
SAMPLES TO BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING  
revised February 28, 2001

TAG	MATERIAL	FINISH
C1	CARPET (FIELD)	CROSSLEY SURE TRING, COLOUR 8404 DAELY DOUBLE
P1	12" X 12" PORCELAIN TILE	C+ S CERAMIC TILE * POWERSTONE* COLOUR NEWTON
CON	CONCRETE	SANDBLASTED, SEALED
R1	RUBBER COVE BASE	JOHNSONITE 4" RUBBER WALL BASE #40 BLACK
W1	STAINED WOOD FINISH	PER PRE-APPROVED EDGE GRAIN FR SAMPLE
W2	GLUE LAM BEAM FINISH	CLEANED, SANBLASTED AND CLEAR URETHANE FINISH
C11	6" x 8" CERAMIC TILE - WC WALLS FIELD COLOUR	LANKA ALABASTER MATTE LAM88
C12	4.25" x 4.25" CERAMIC TILE - WC WALLS ACCENT	LANKA HERB GREEN GLOSSY S073
C13	9" x 8" PORCELAIN TILE - WC FLOORS	LANKA STONWARE 3765
PL1	PLASTIC LAMINATE COMPOSITE - ALL COUNTERTOPS	PHENIK BIOCOSMOTES GREY GRANITE MATTE
PL2	PLASTIC LAMINATE COMPOSITE - TRANSACTION TOPS	PHENIK BIOCOSMOTES MIDNIGHT SEMI GLOSS
PL3	PLASTIC LAMINATE - ELEVATOR CABS	ARBORITE PLUS W-404 WILD CHERRY, GLOSS FINISH
CG	CORNER GUARD	NO. 4 STAINLESS STEEL
IP1	PAINT (GWB CEILING AND CEILING PLENUM - GENERAL)	BENJAMIN MOORE #970 (OFF WHITE)
IP2	PAINT (WC WALLS + CEILING)	PRATT + LAMBERT 2251 APPALOOSA (LIGHT GREEN)
IP3	PAINT (WALLS)	BENJAMIN MOORE #1869 (LIGHT CARMEL)
IP5	PAINT (MISC. METAL + PAINTED FLOORS)	BENJAMIN MOORE #1631 (CHARCOAL)
IP6	PAINTED METAL FRAME/METAL DOORS	BENJAMIN MOORE #1631 (CHARCOAL)
IP7	METAL TRUSSES	BENJAMIN MOORE #1267 (OXBLOOD)

BLD 01 - 02153

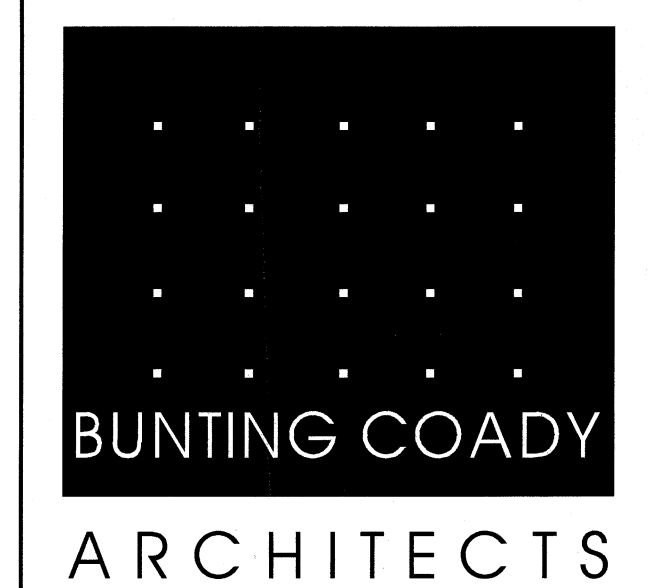


**A502**

SCALE	PROJECT
AS NOTED	0019
DRAWN	DATE
RAM	30 JANUARY 2001

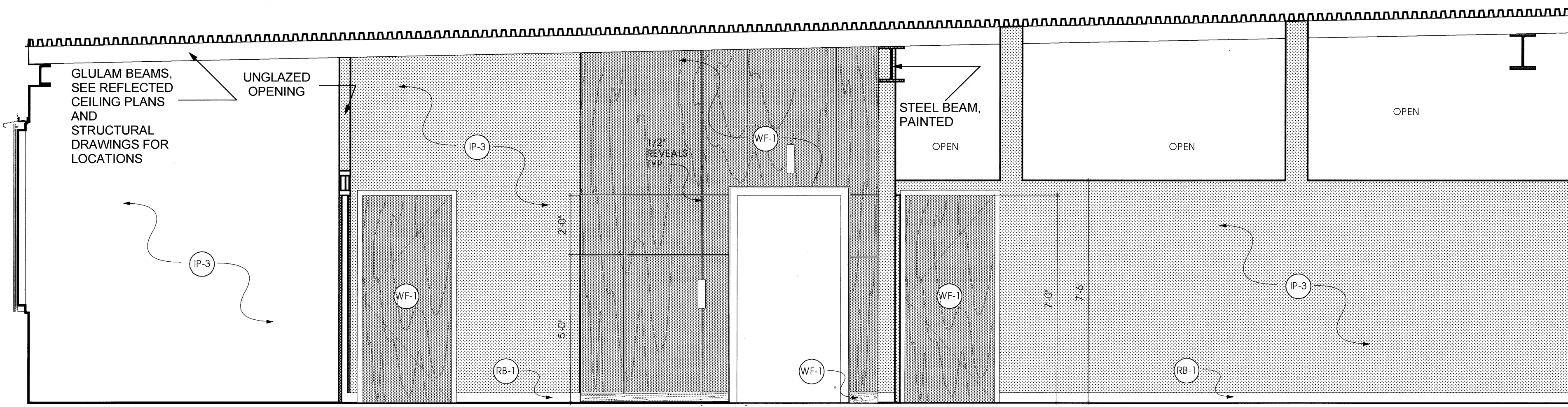
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North Vancouver

DETAIL PLANS  
INTERIOR ELEVATIONS  
WASHROOMS

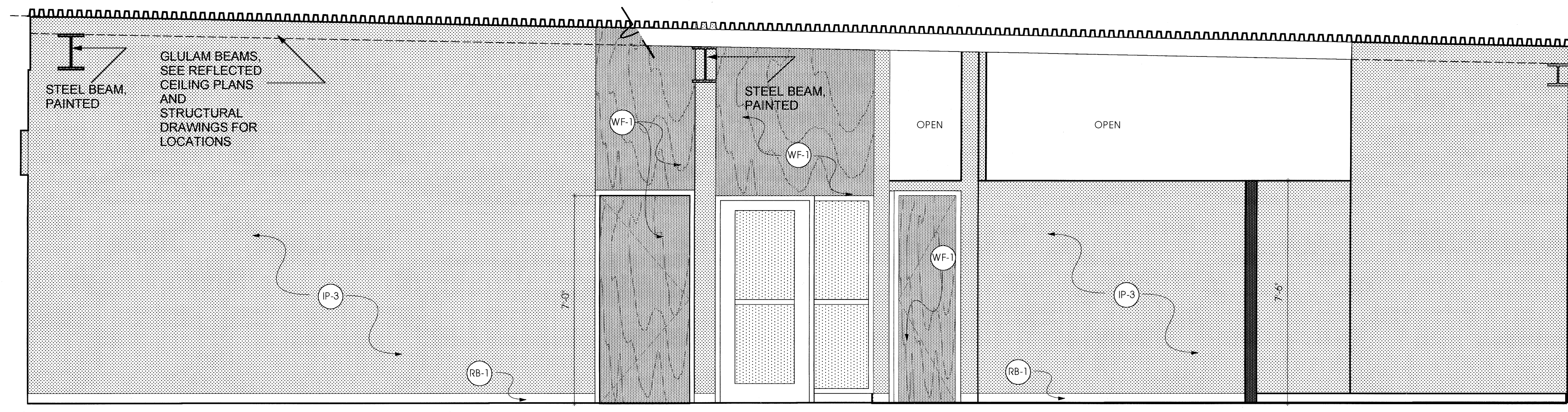


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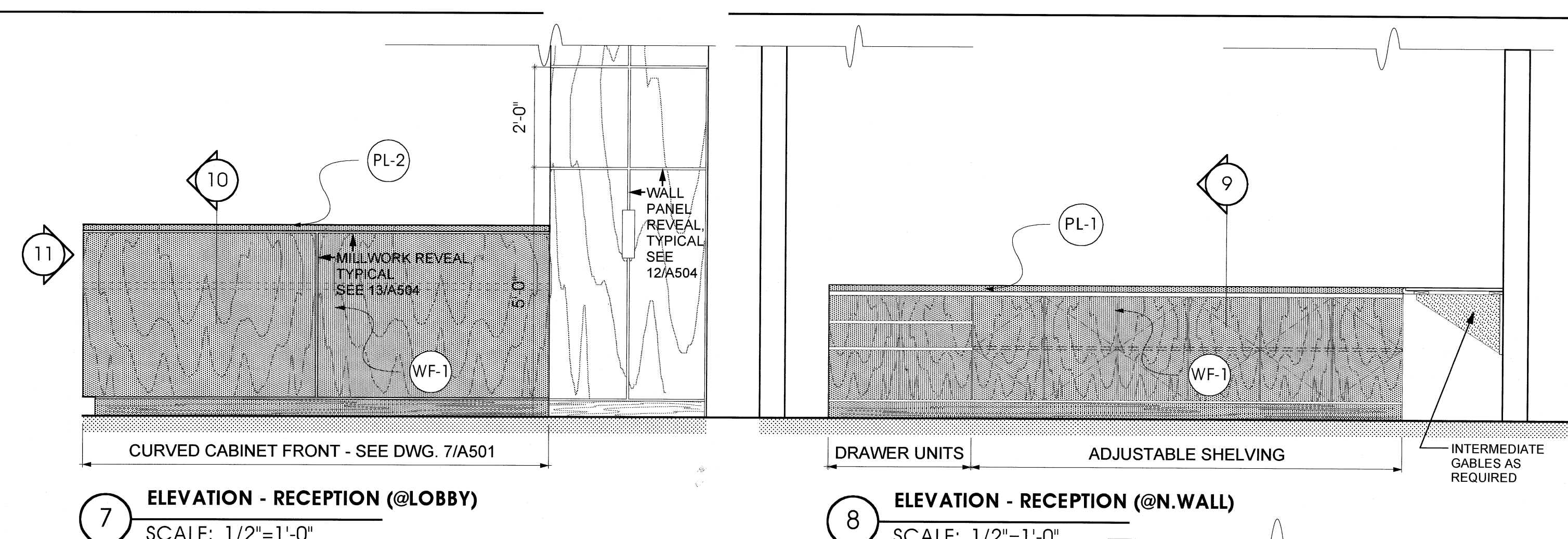




2 INTERIOR ELEVATION  
SCALE: 3/8"=1'-0"

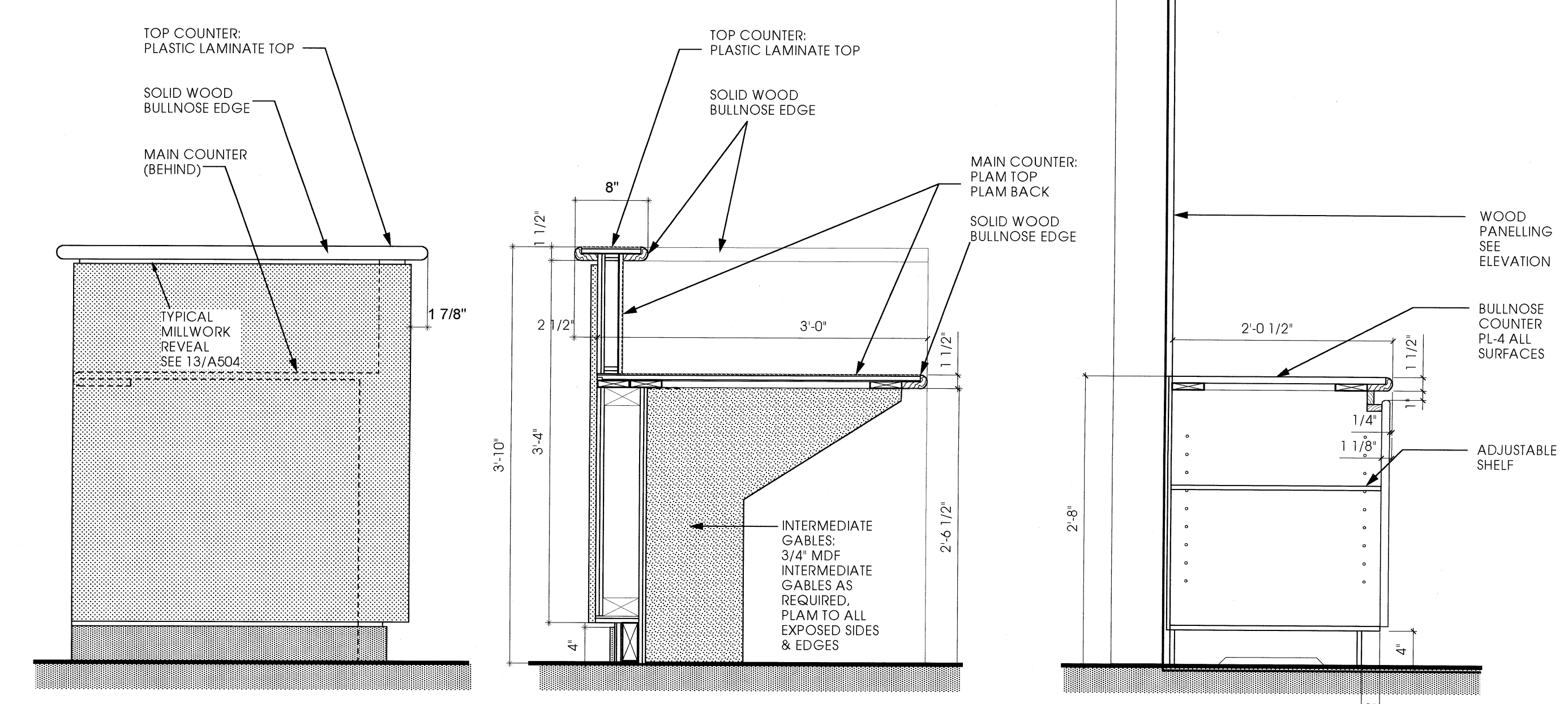


3 INTERIOR ELEVATION  
SCALE: 3/8"=1'-0"



7 ELEVATION - RECEPTION (@LOBBY)  
SCALE: 1/2"=1'-0"

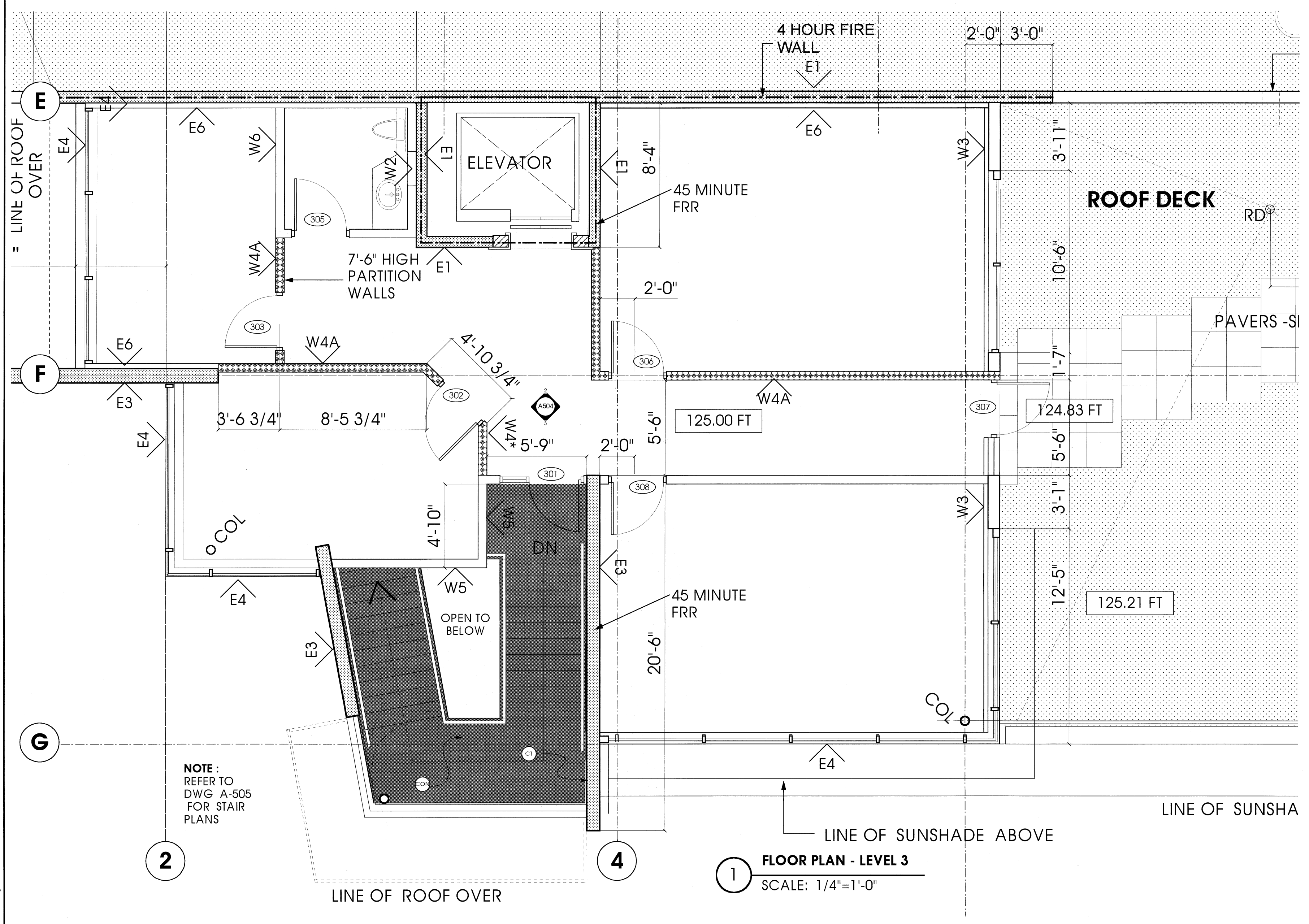
8 ELEVATION - RECEPTION (@N.WALL)  
SCALE: 1/2"=1'-0"



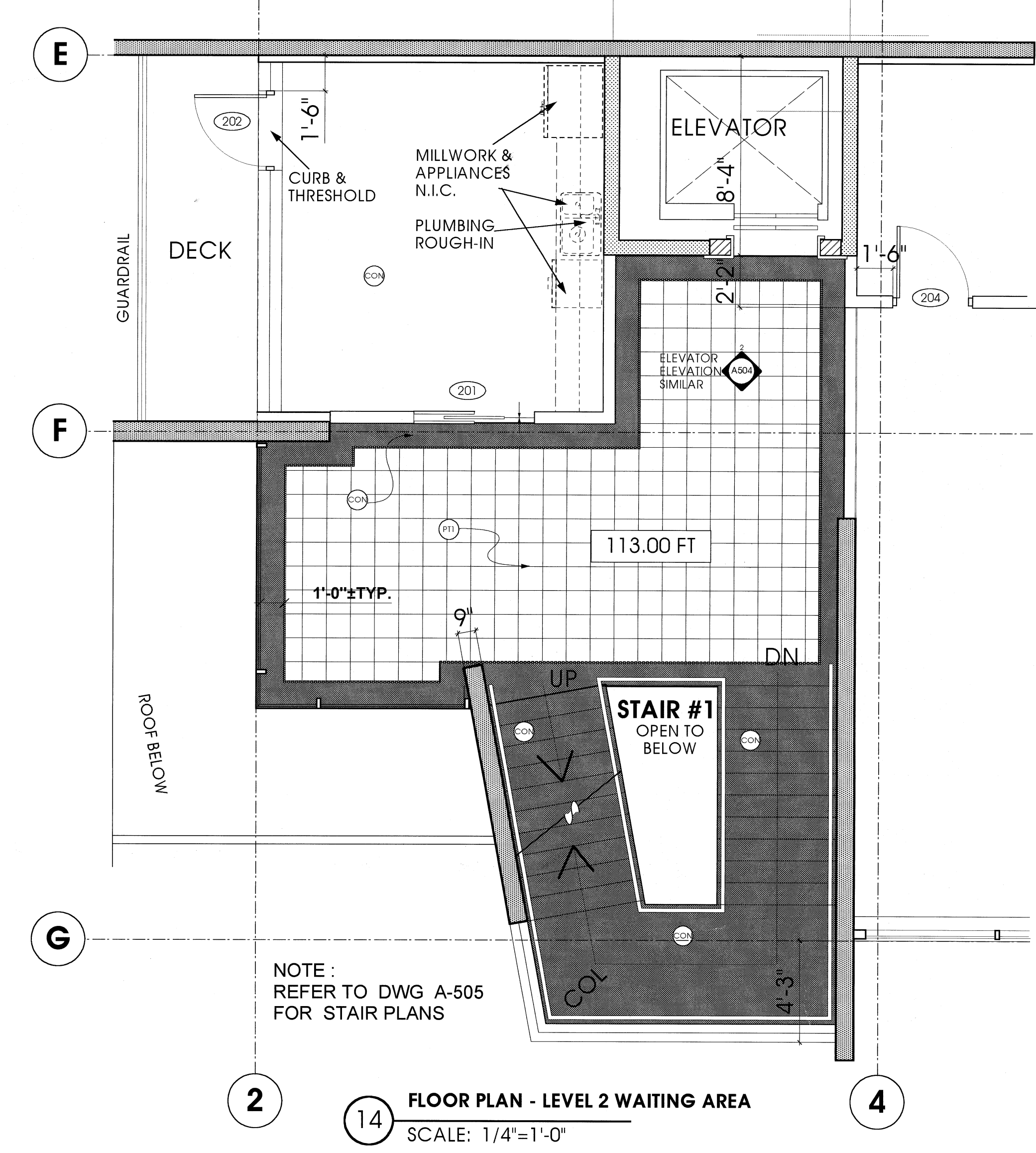
11 ELEVATION - RECEPTION  
SCALE: 1"=1'-0"

10 SECTION - RECEPTION  
SCALE: 1"=1'-0"

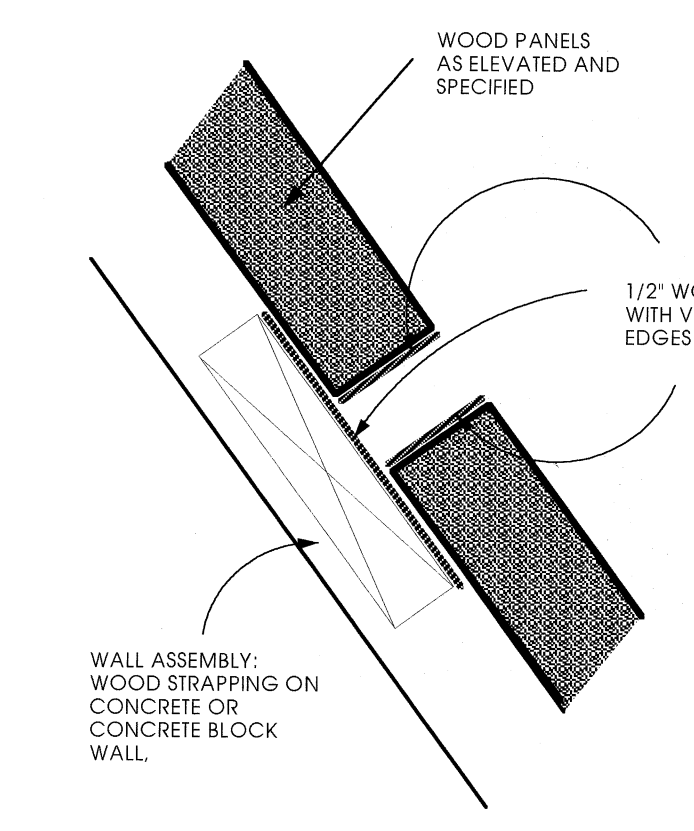
9 SECTION - RECEPTION  
SCALE: 1"=1'-0"



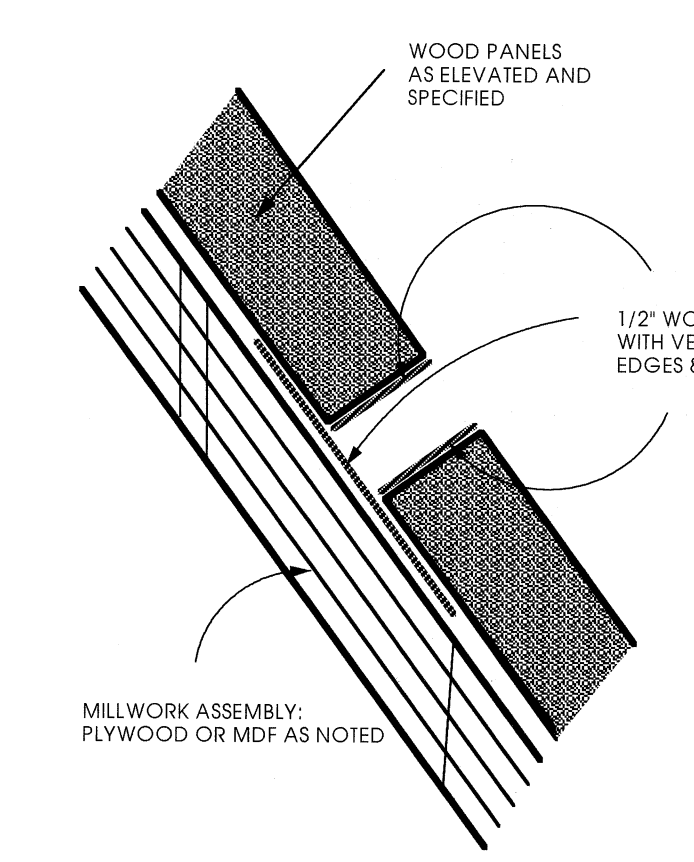
1 FLOOR PLAN - LEVEL 3  
SCALE: 1/4"=1'-0"



14 FLOOR PLAN - LEVEL 2 WAITING AREA  
SCALE: 1/4"=1'-0"



12 TYPICAL WOOD PANELLING REVEALS  
SCALE: N.T.S.



13 TYPICAL WOOD PANELLING REVEALS  
SCALE: N.T.S.

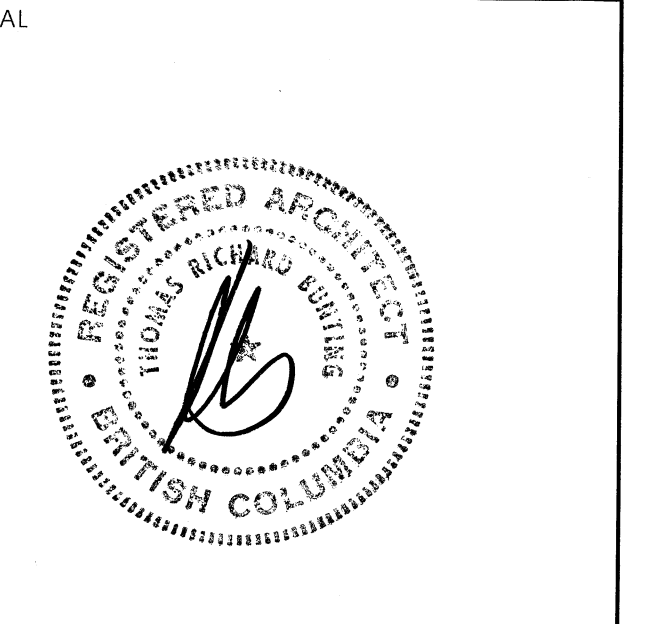
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NO.	DATE	REVISIONS
4	MAY 3, 2001	ISSUED FOR TENDER BY ADDENDUM 1
2	APR. 20, 2001	ISSUED FOR BLDG. PERMIT



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North Vancouver

DETAIL PLAN &  
INTERIOR ELEVATIONS  
LEVEL 3

**BUNTING COADY**  
ARCHITECTS

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BLD 01-02153  
MAY 28 2001  
City of North Vancouver  
Development Services  
Department

**A504**

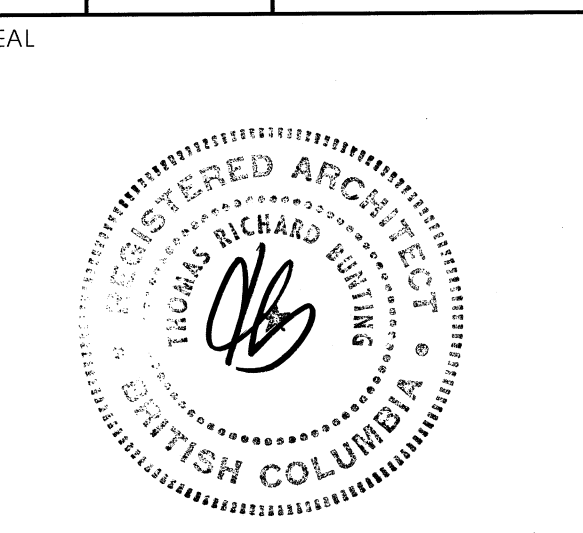
SCALE	PROJECT
AS NOTED	0019
DRAWN	DATE
RAM	12 FEBRUARY 2001

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NO.	DATE	REVISIONS
3	APR. 25, 2001	ISSUED FOR TENDER
2	APR. 20, 2001	RE-ISSUED FOR BLDG. PERMIT
1	FEB. 19, 2001	ISSUED FOR BLDG. PERMIT



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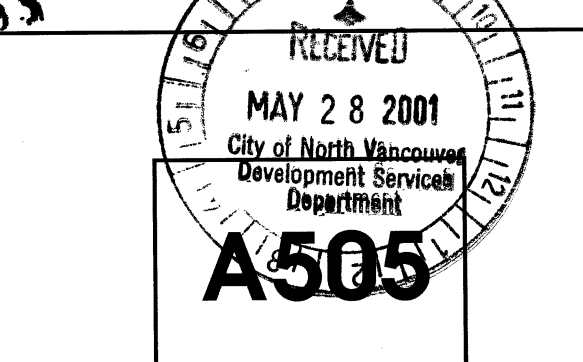
**STAIR-1 SECTION DETAILS**

**BUNTING COADY ARCHITECTS**

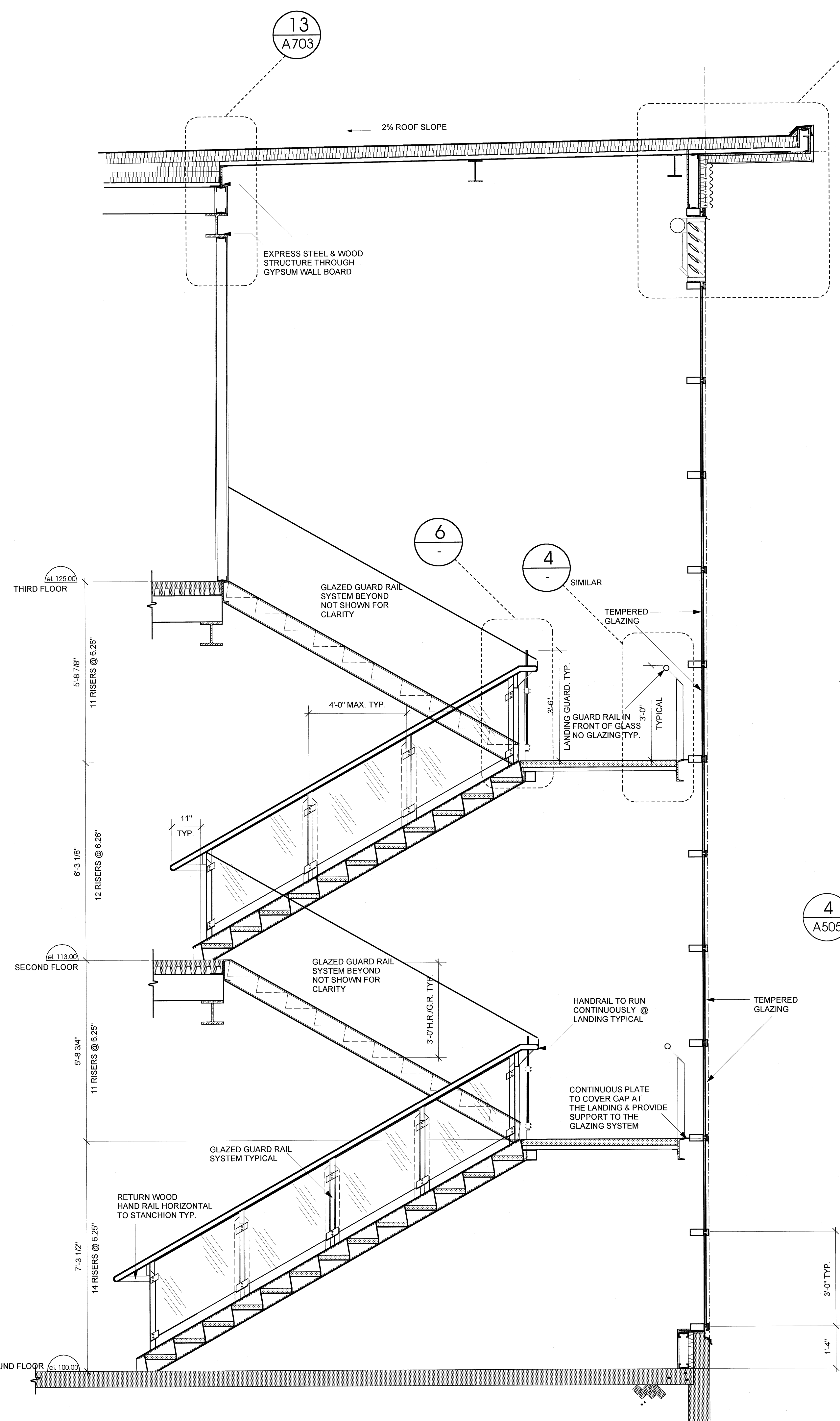
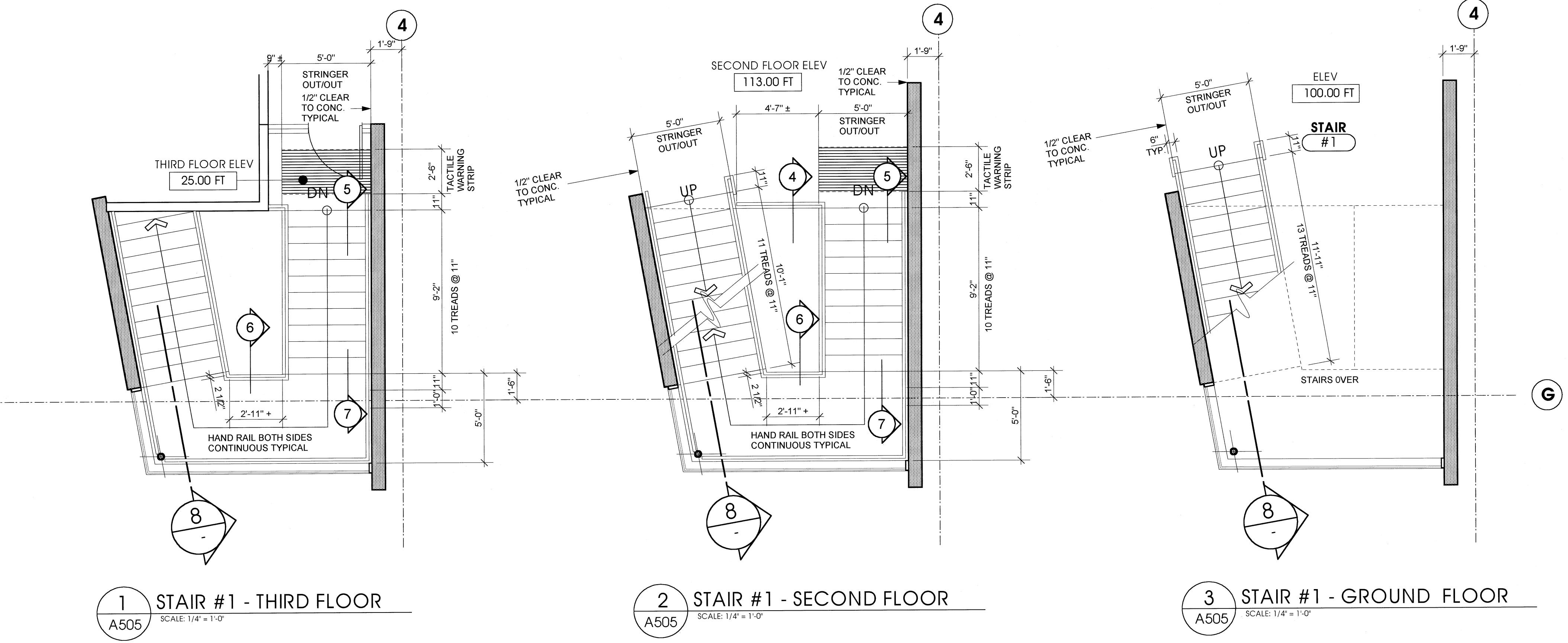
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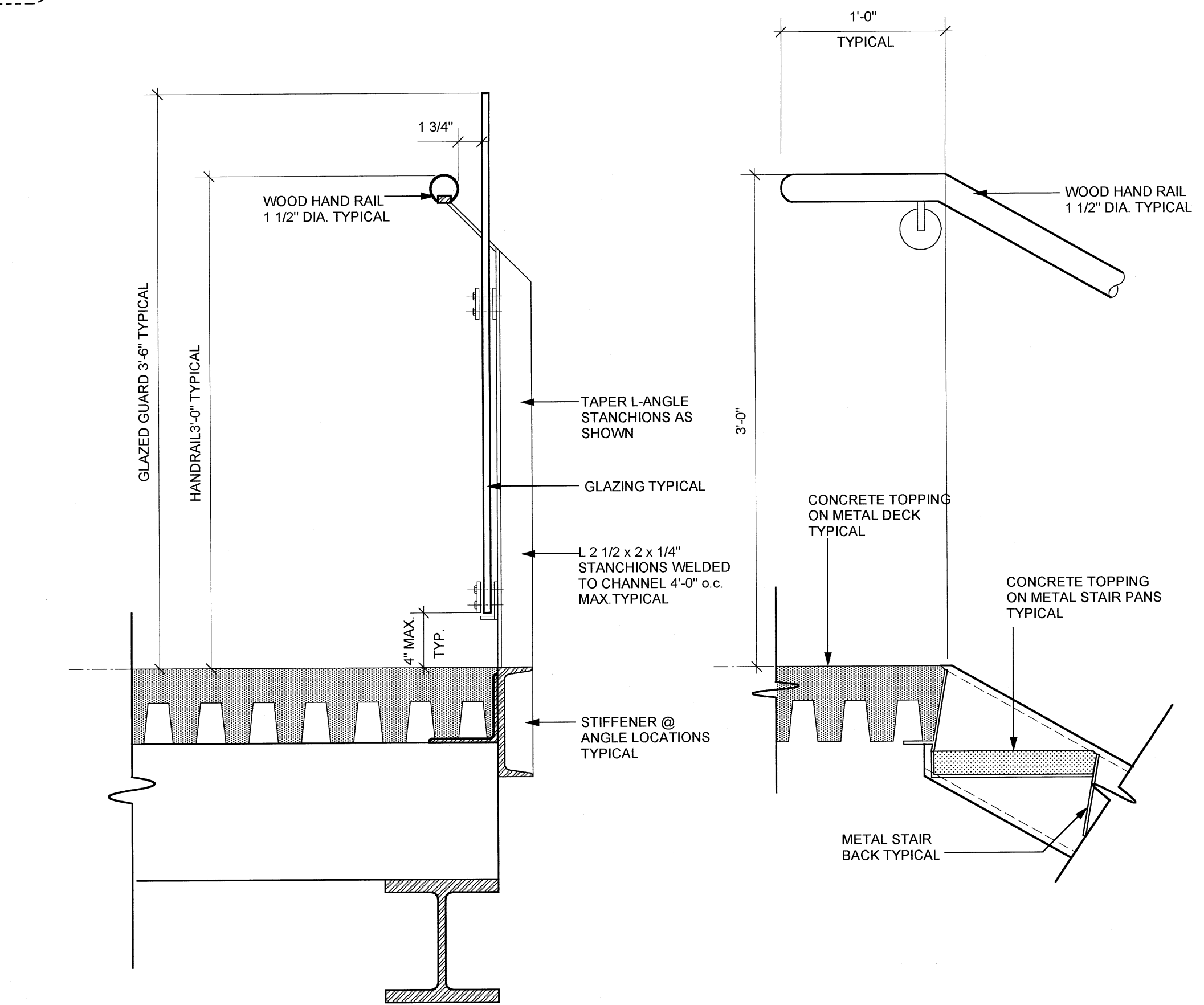
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SCALE	PROJECT
AS NOTED	0019
DRAWN	DATE
8	DECEMBER

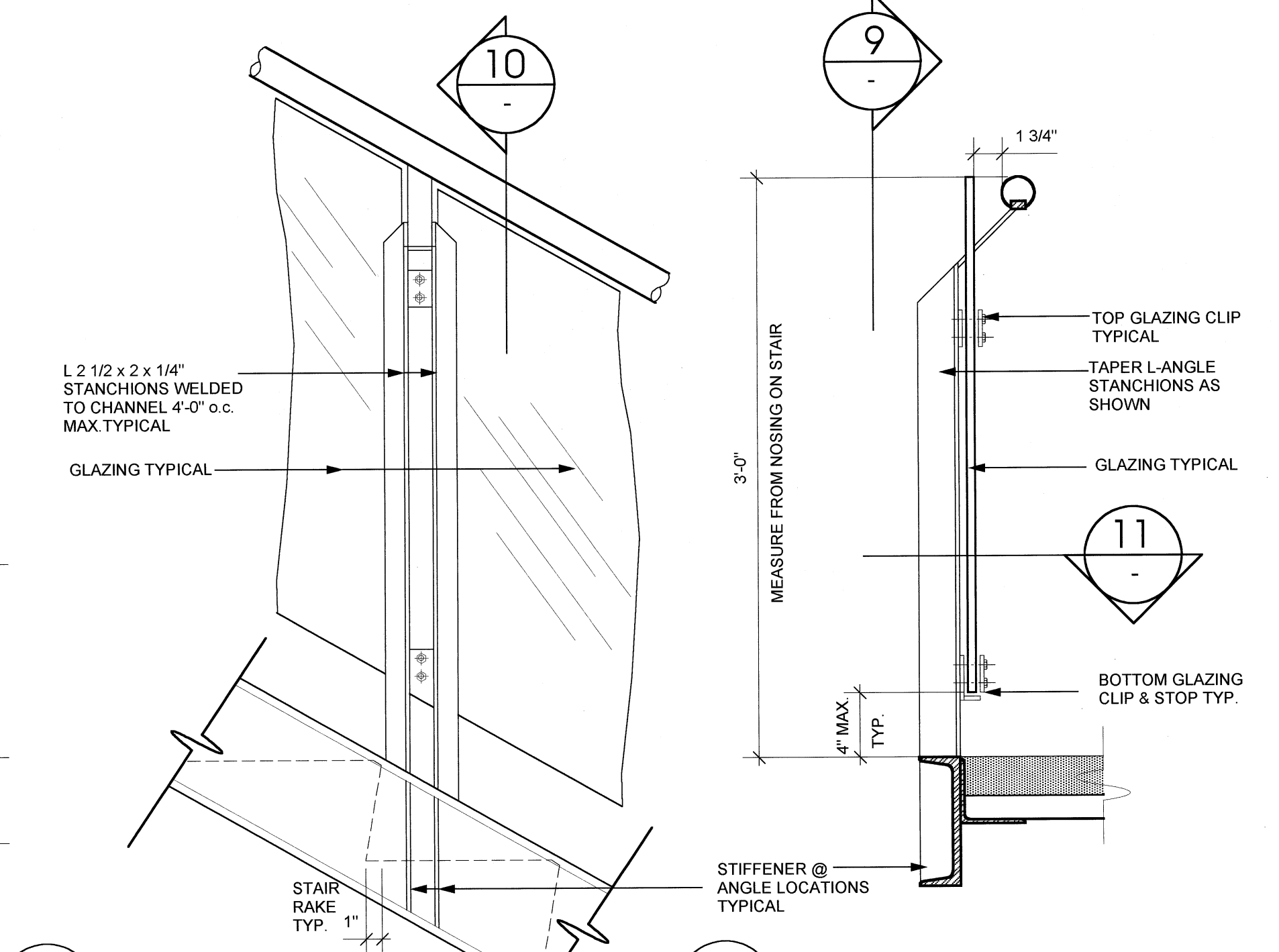


**8 SECTION THRU STAIR #2**  
 A505 SCALE 1/2" = 1'-0"



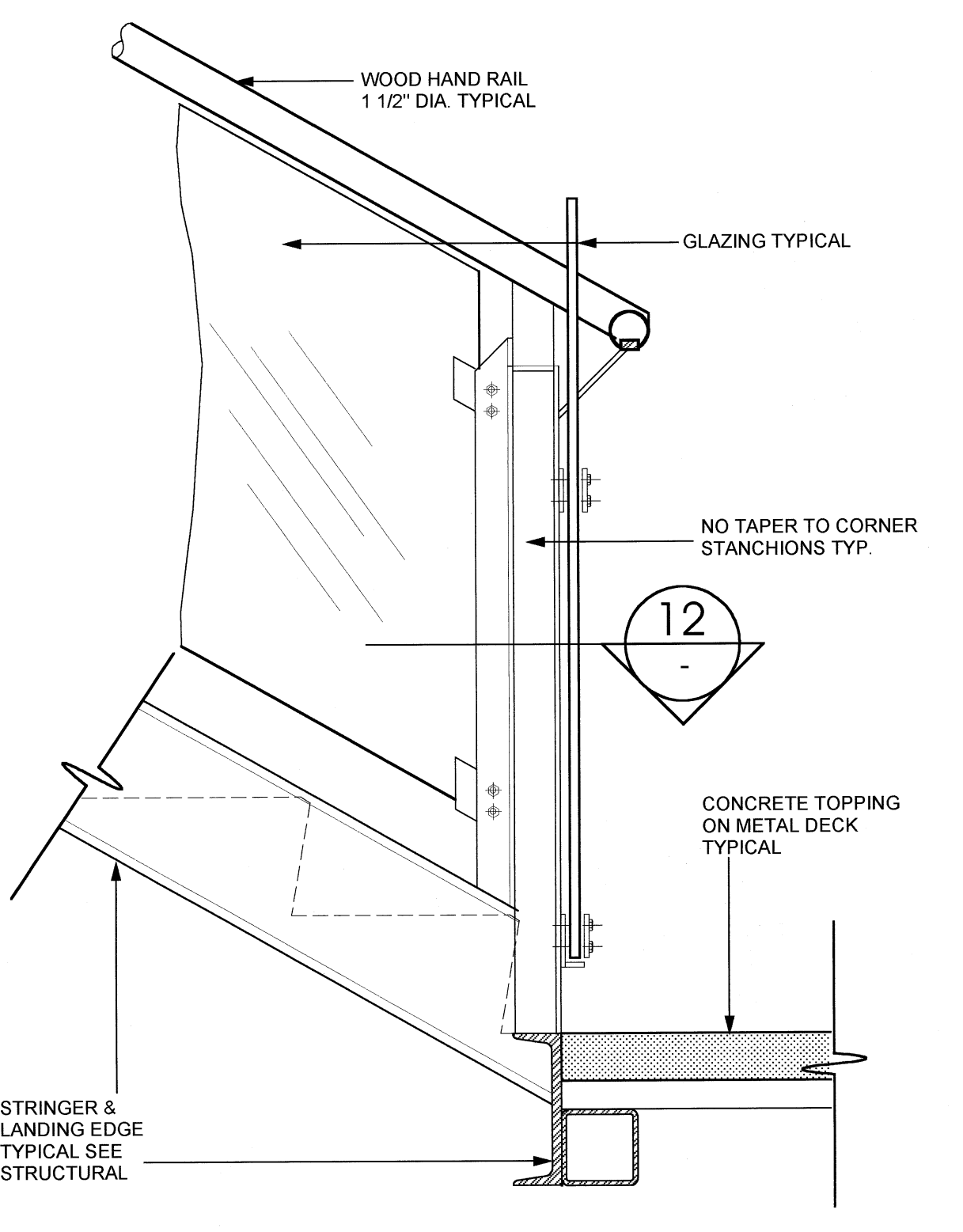
**4 GUARDRAIL @ LANDING**  
 A505 SCALE 1 1/2" = 1'-0"

**5 TOP TREAD DETAIL**  
 A505 SCALE 1 1/2" = 1'-0"

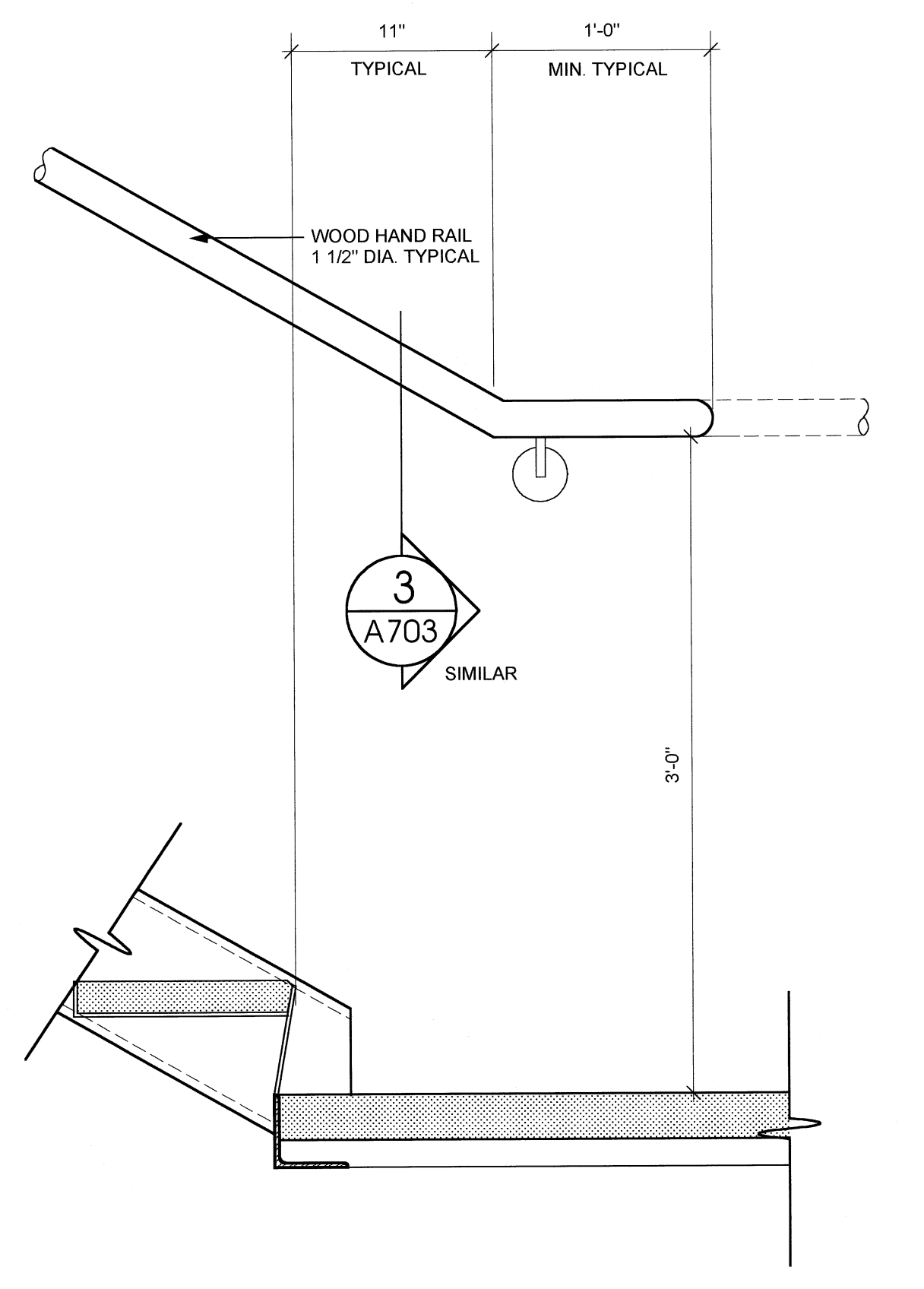


**9 TYPICAL STANCHION**  
 A505 SCALE 1 1/2" = 1'-0"

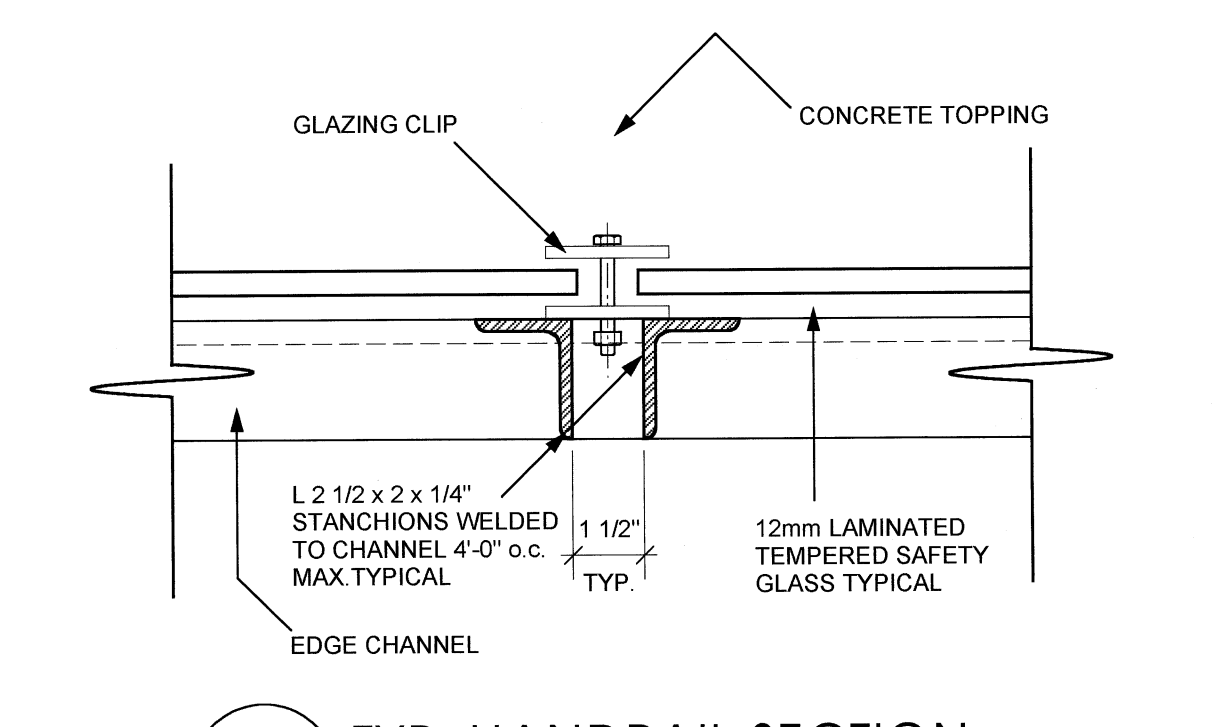
**10 TYP. HANDRAIL SECTION**  
 A505 SCALE 1 1/2" = 1'-0"



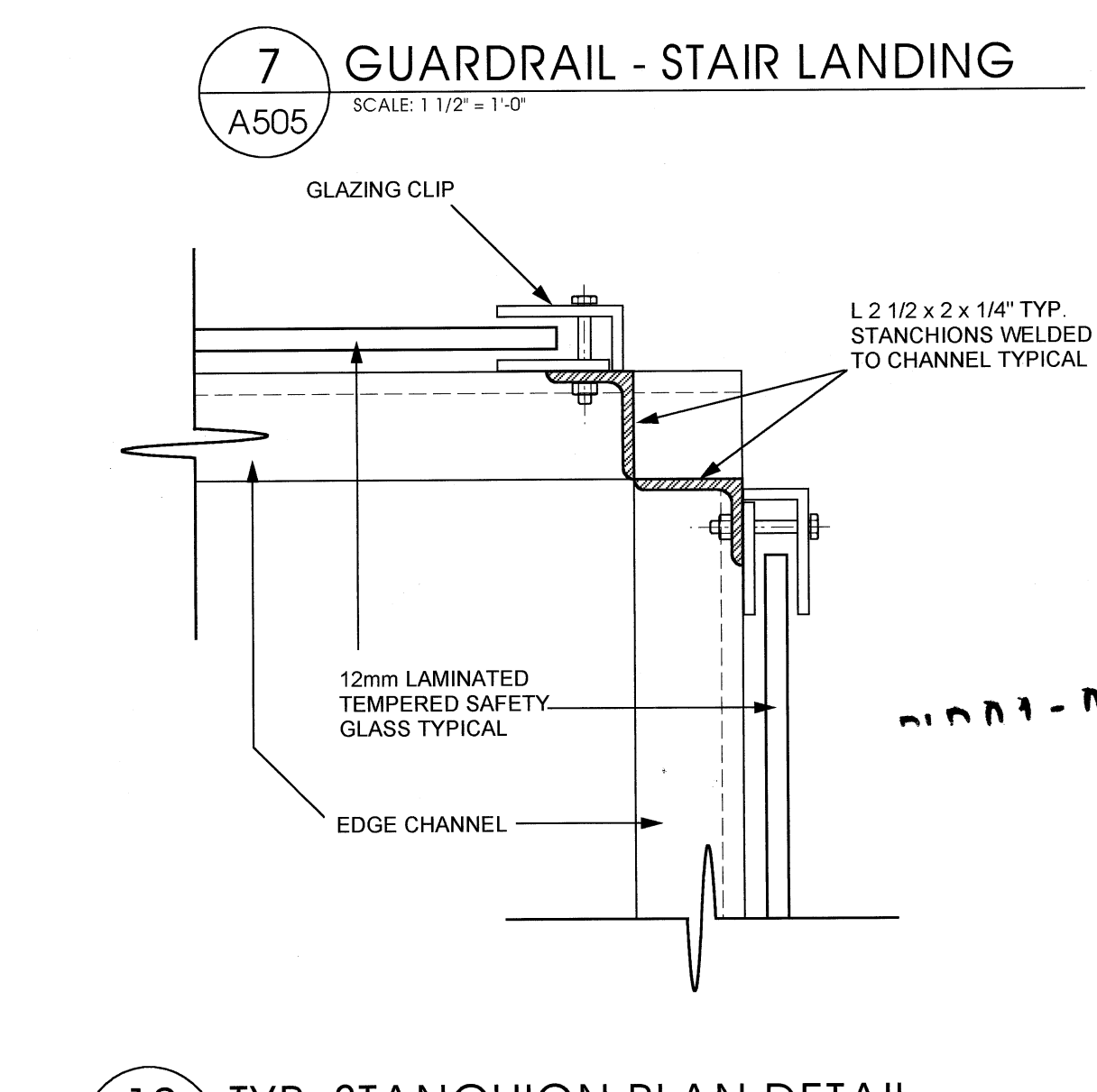
**6 GUARDRAIL - STAIR LANDING**  
 A505 SCALE 1 1/2" = 1'-0"



**7 GUARDRAIL - STAIR LANDING**  
 A505 SCALE 1 1/2" = 1'-0"



**11 TYP. HANDRAIL SECTION**  
 A505 SCALE 3" = 1'-0"

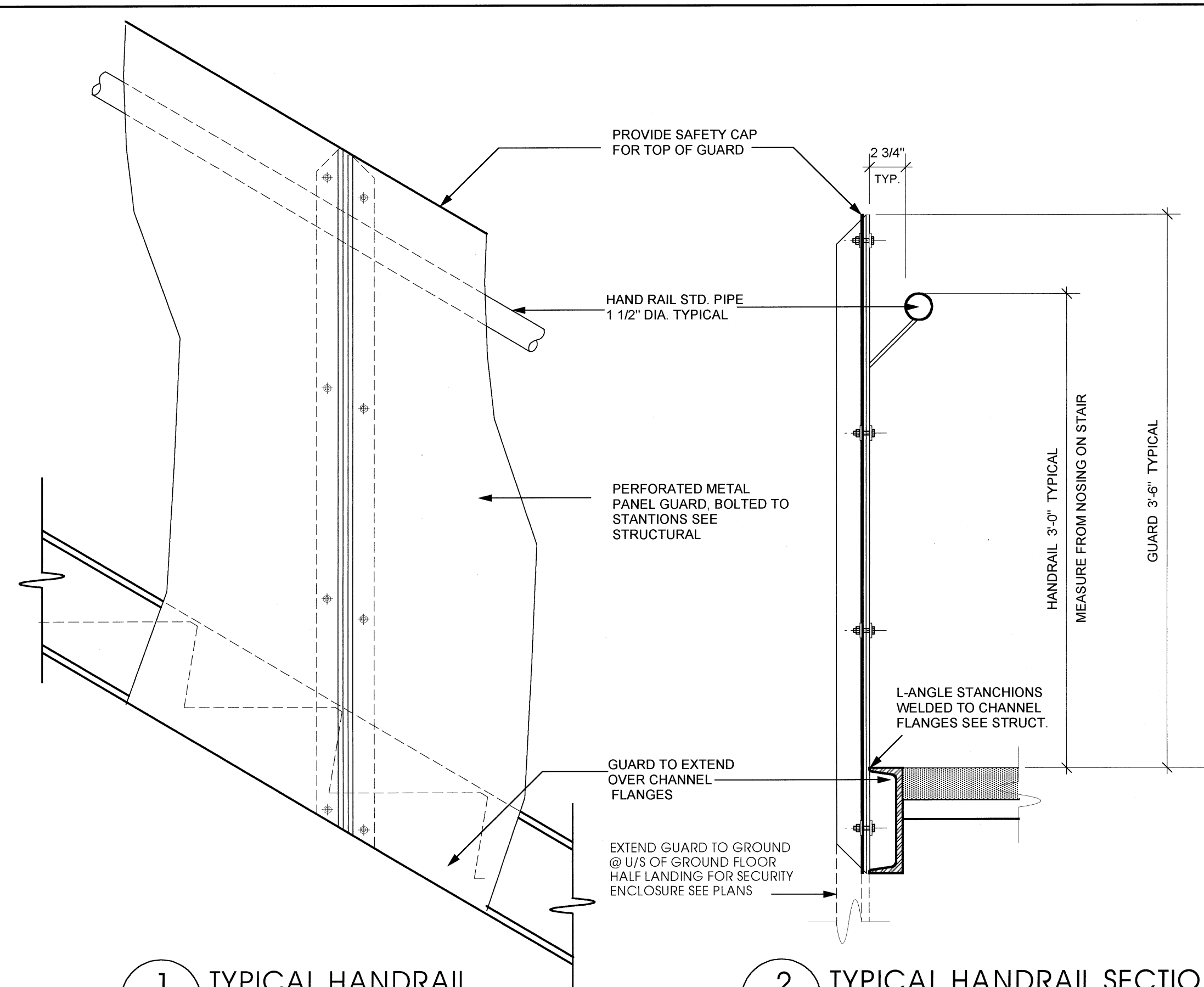


**12 TYP. STANCHION PLAN DETAIL**  
 A505 SCALE 3" = 1'-0"

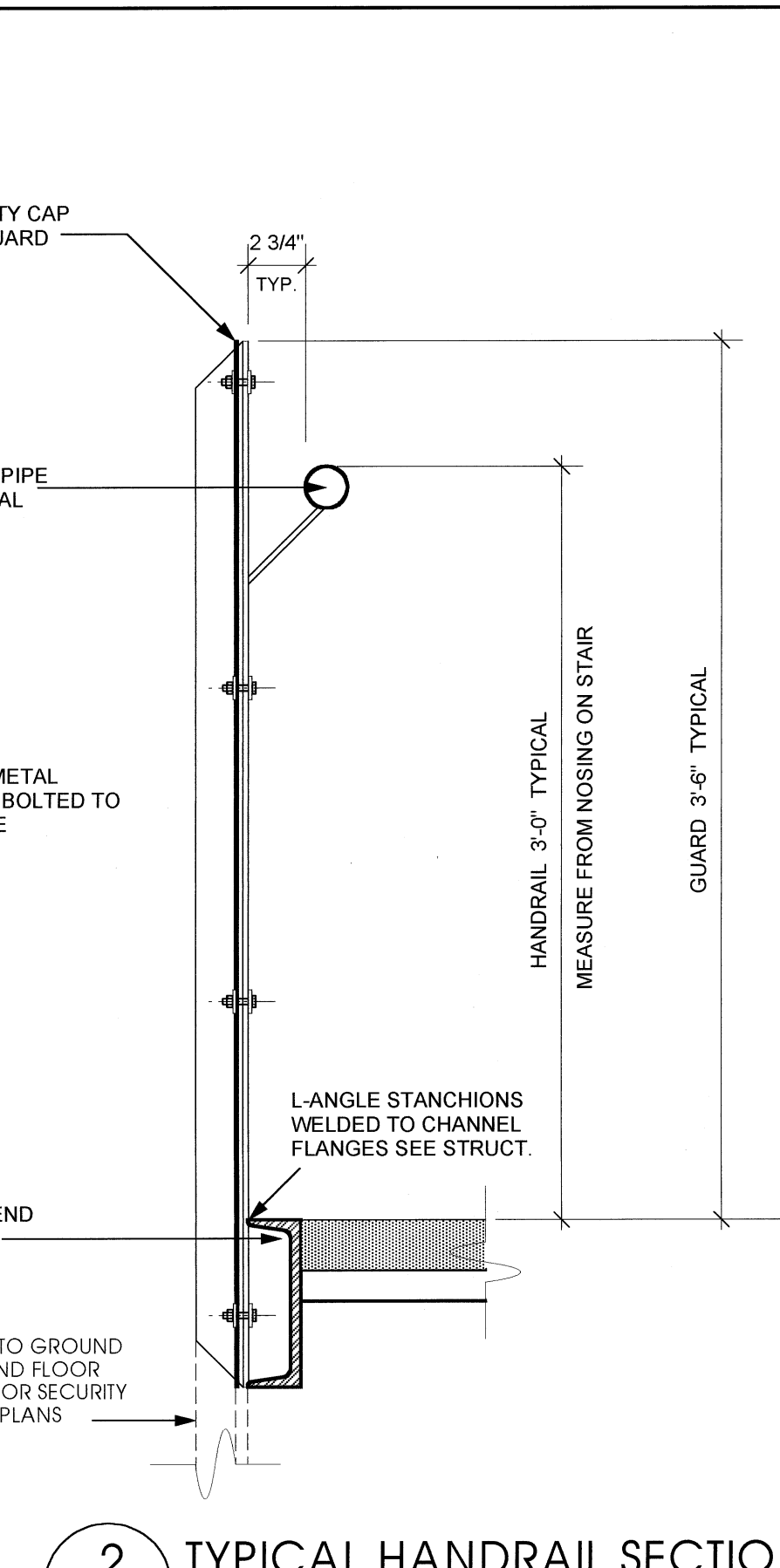
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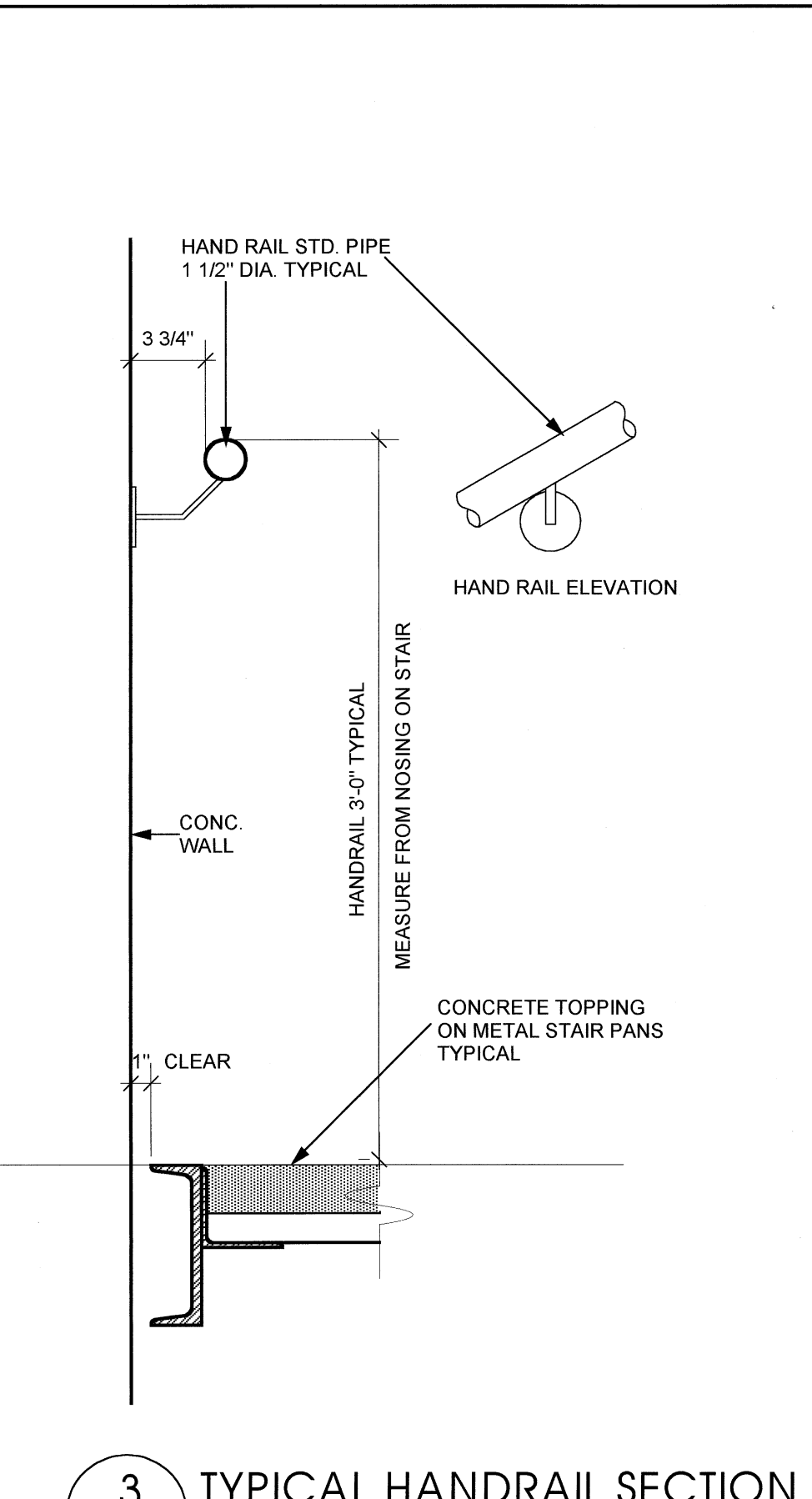
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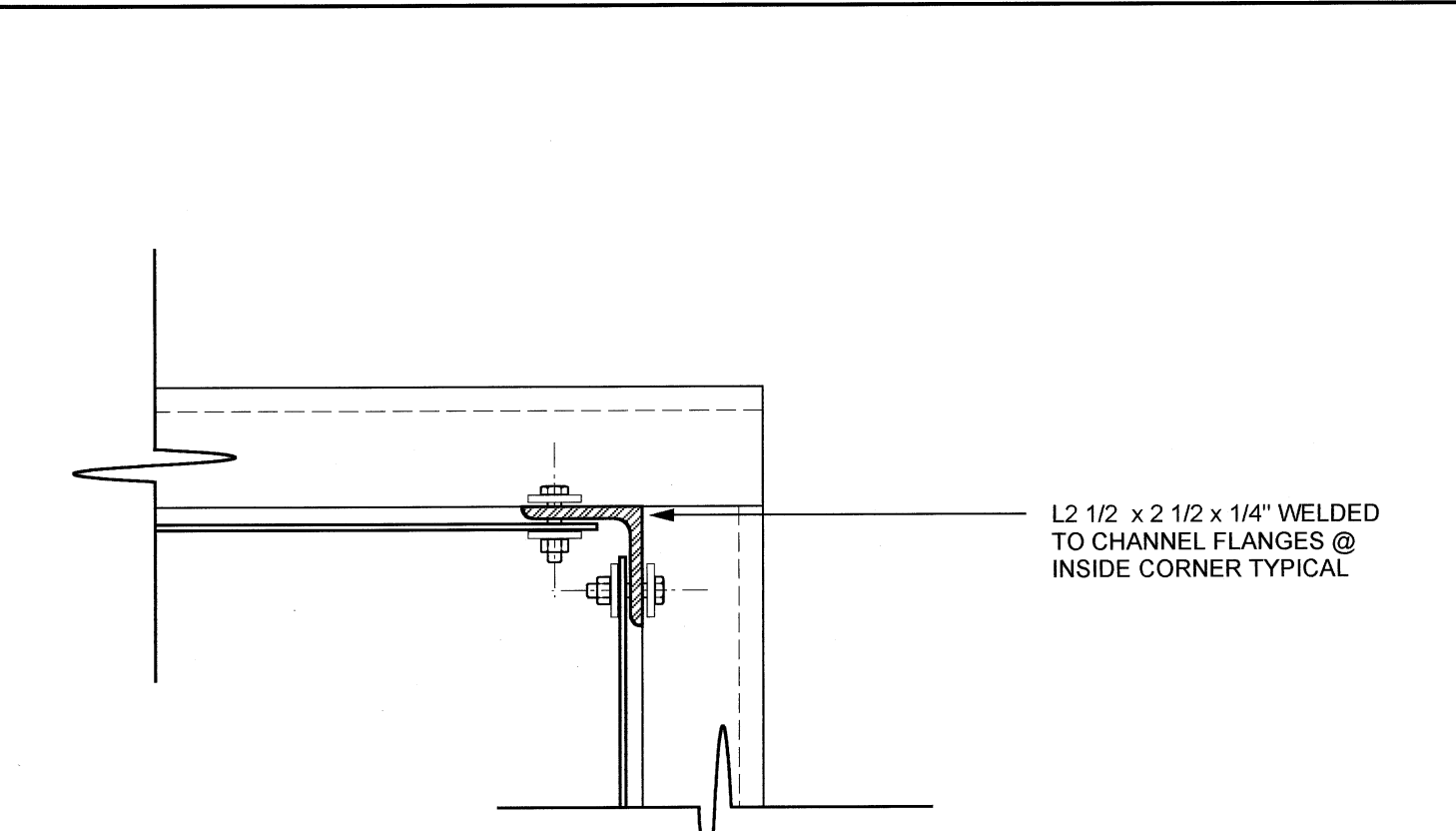
1 TYPICAL HANDRAIL  
SCALE: 1/2" = 1'-0"



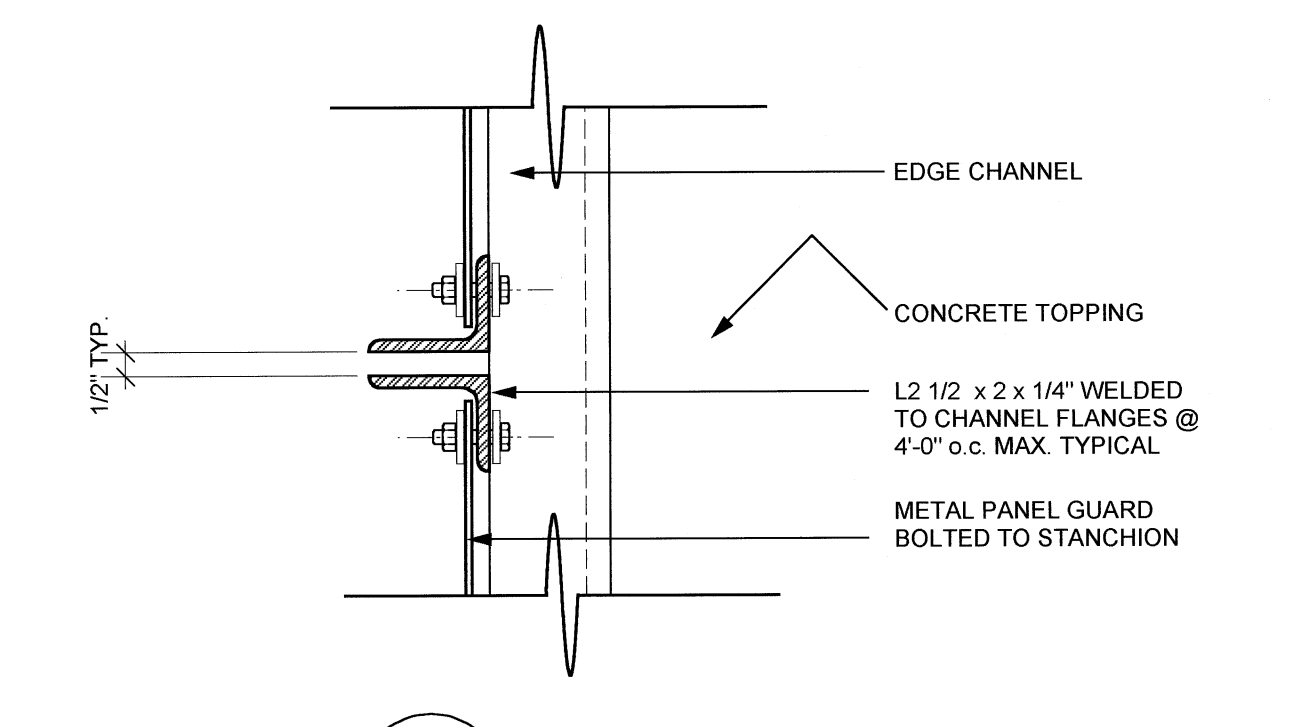
2 TYPICAL HANDRAIL SECTION  
SCALE: 1/2" = 1'-0"



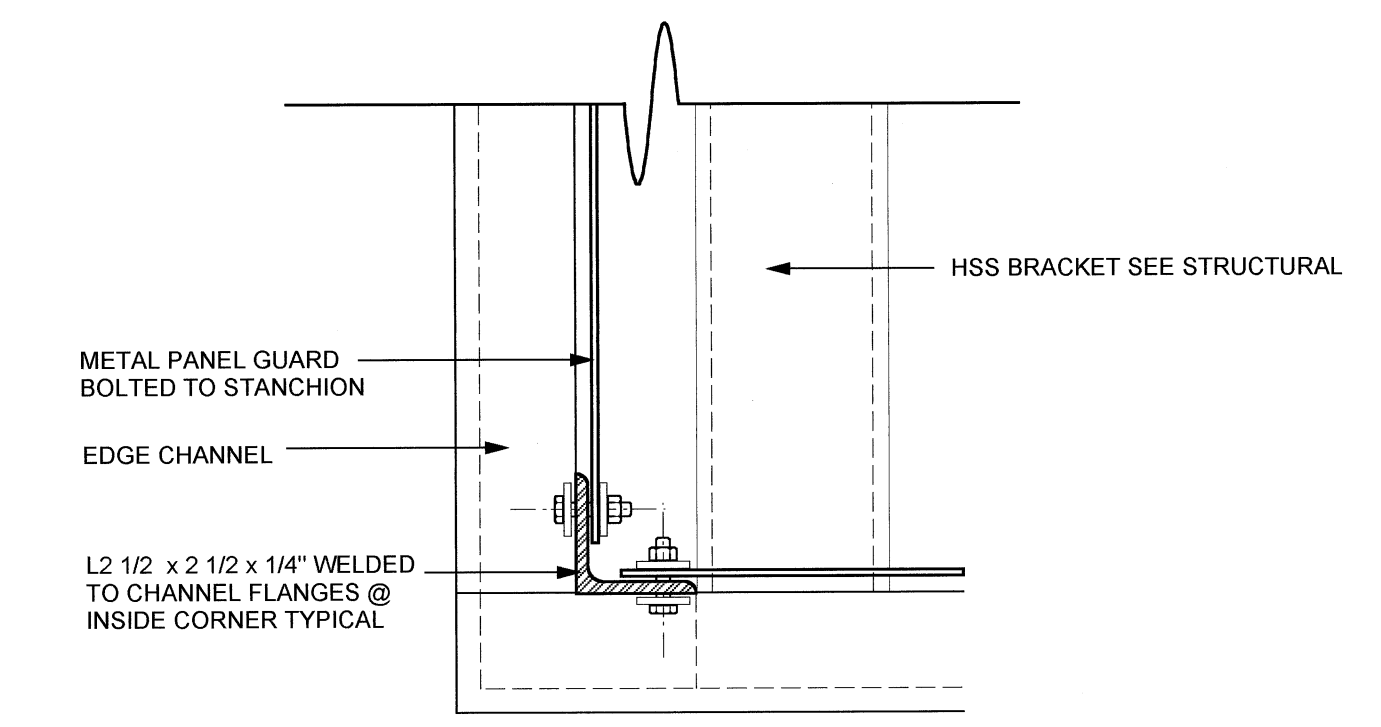
3 TYPICAL HANDRAIL SECTION  
SCALE: 1/2" = 1'-0"



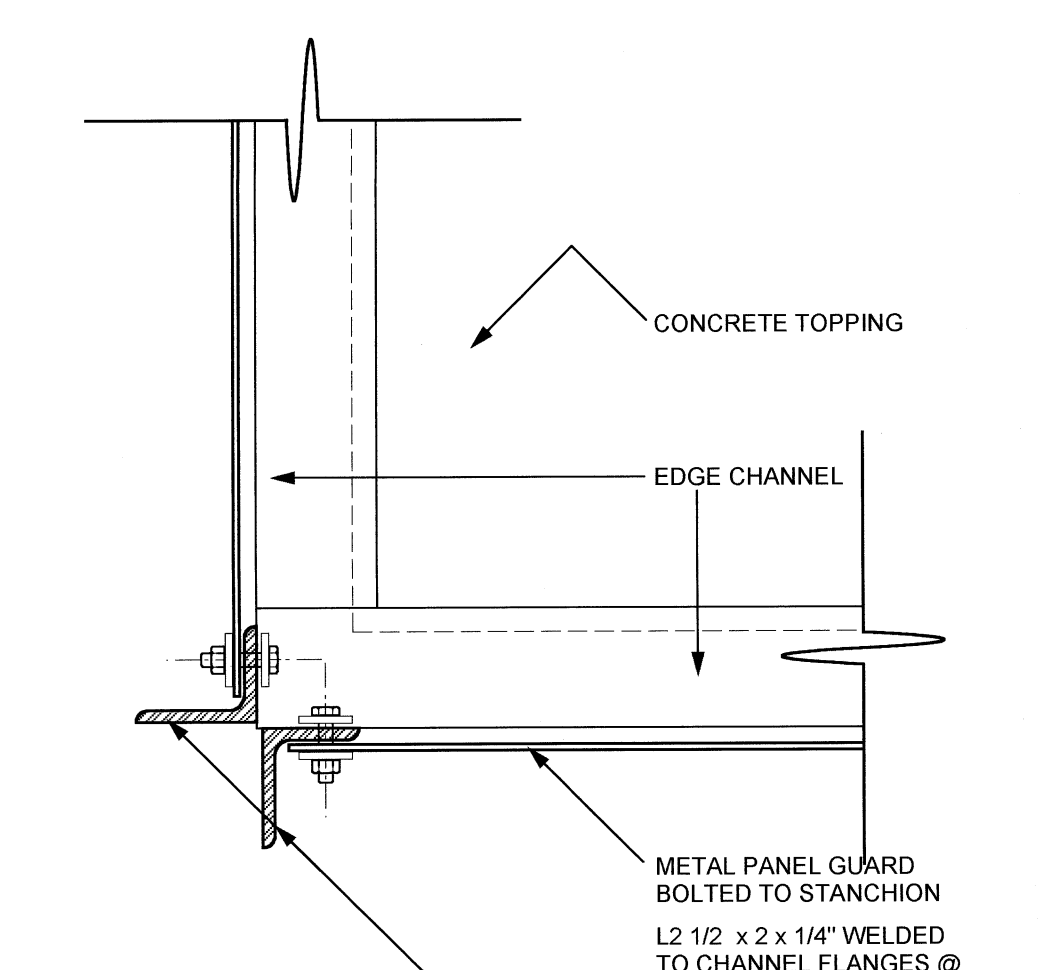
4 INSIDE CORNER STANCHION PLAN  
SCALE: 3" = 1'-0"



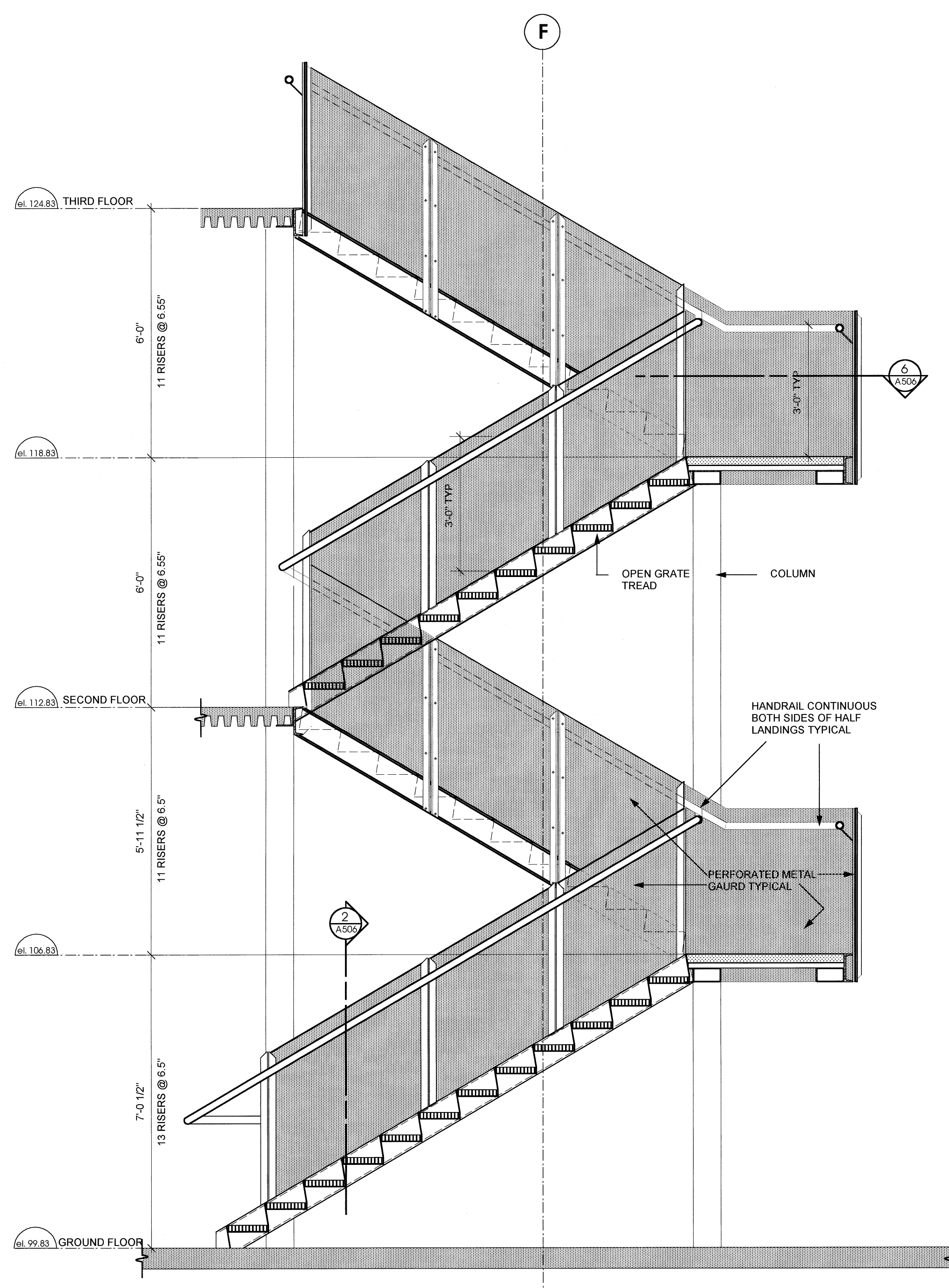
6 TYP STANCHION PLAN  
SCALE: 3" = 1'-0"



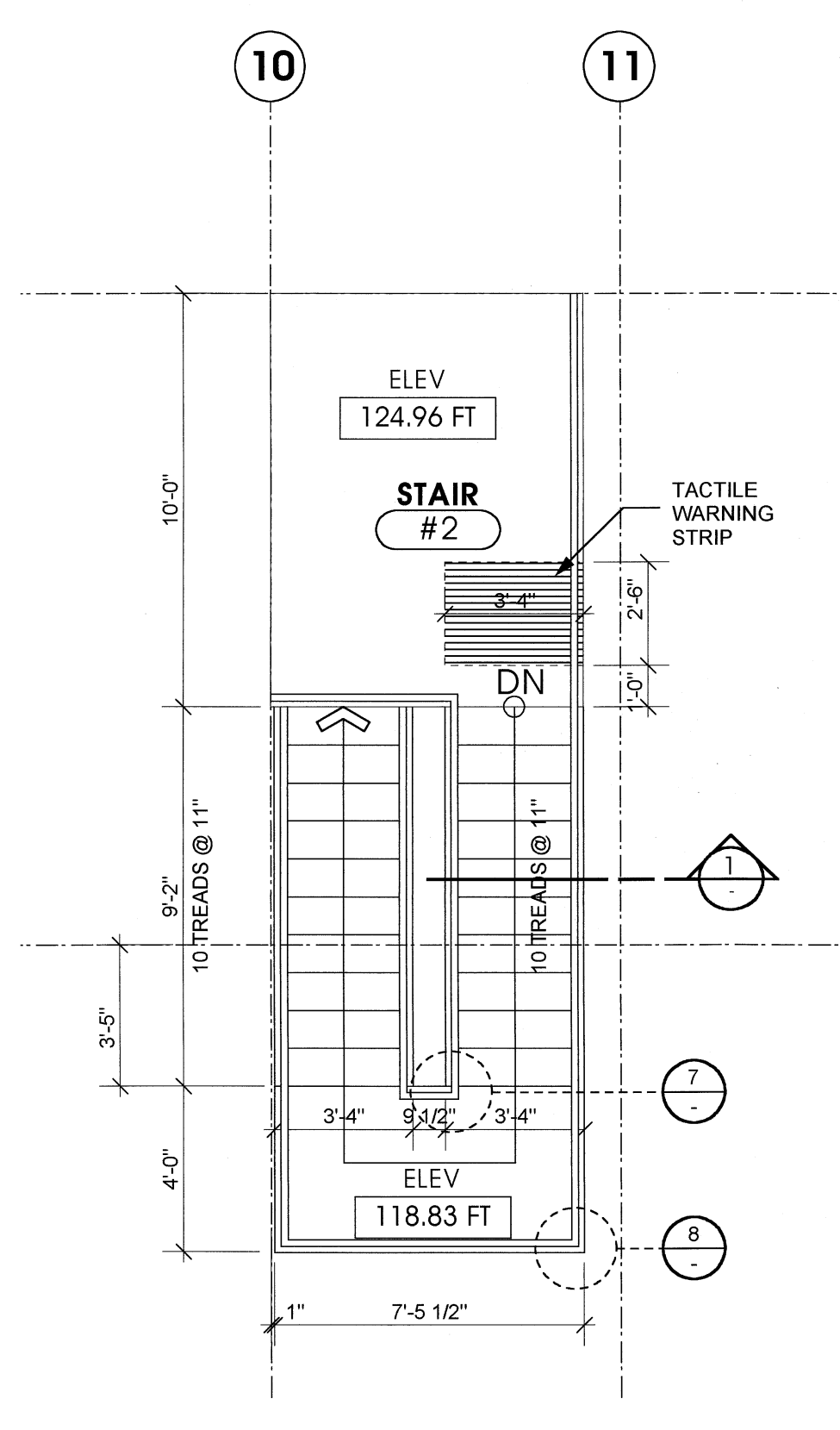
7 HALF LANDING - STANCHION PLAN  
SCALE: 3" = 1'-0"



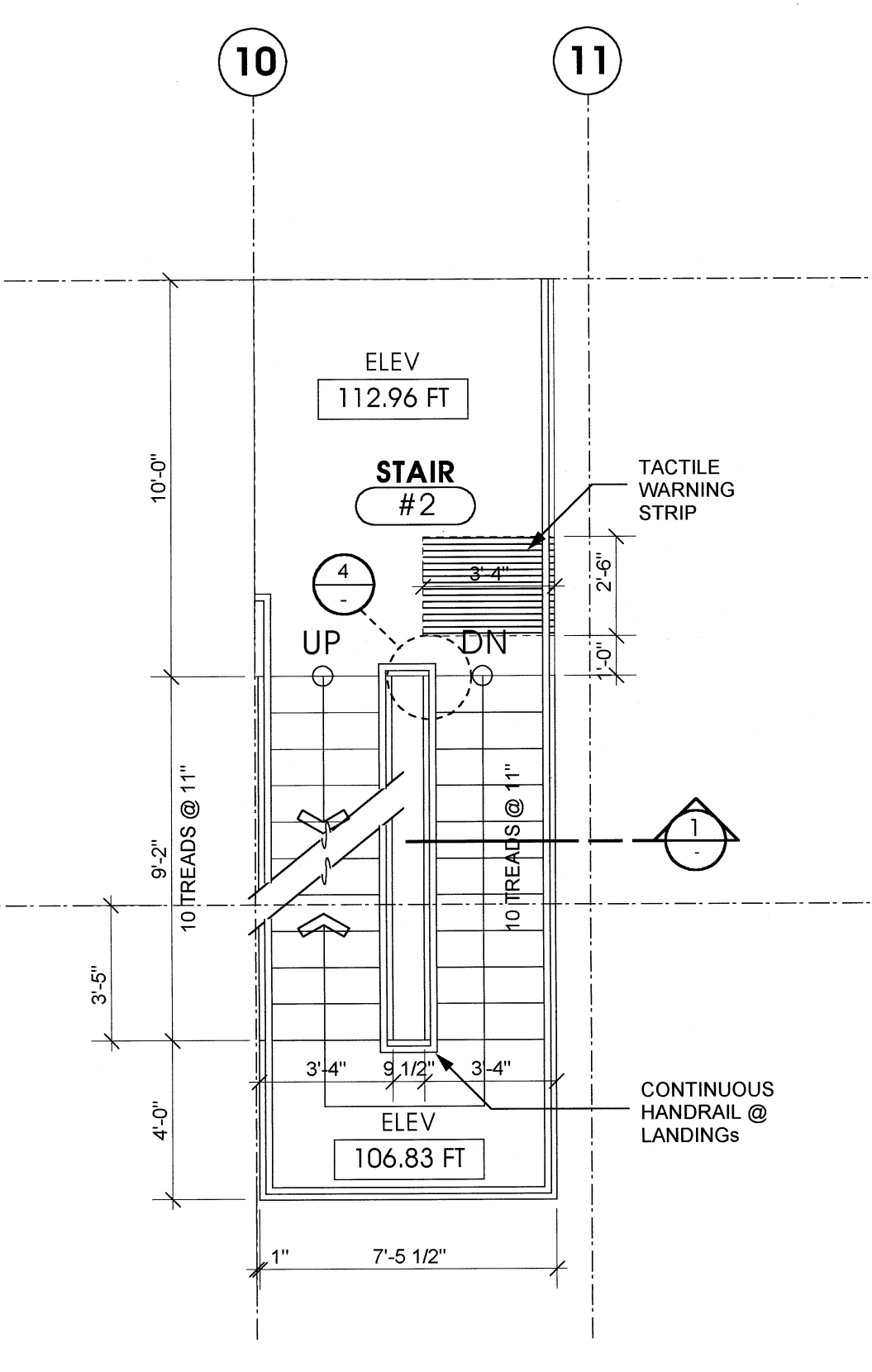
8 OUTSIDE CORNER STANCHION  
SCALE: 3" = 1'-0"



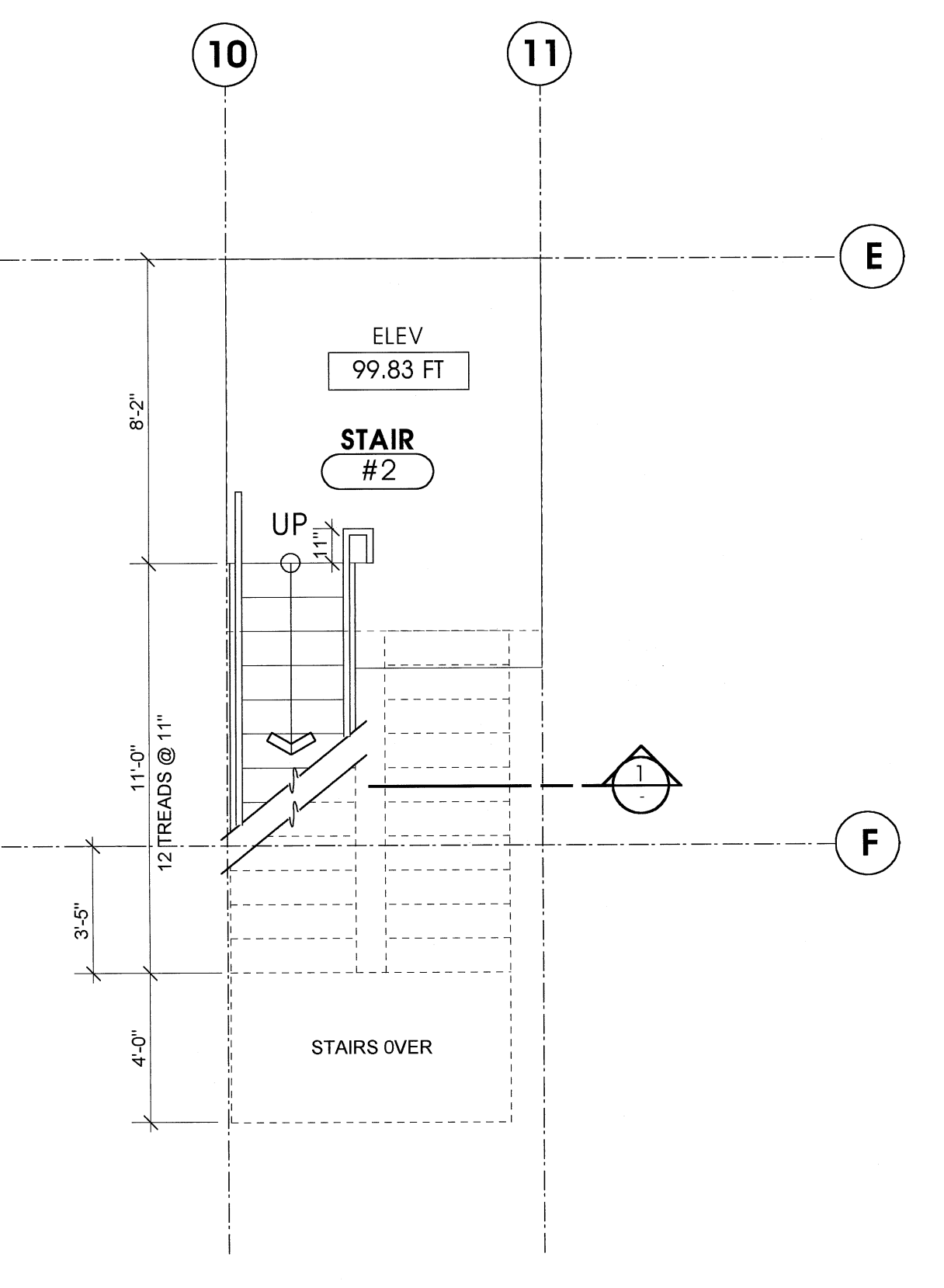
9 SECTION THRU STAIR #1  
SCALE: 1/4" = 1'-0"



10 STAIR #2 - THIRD FLOOR  
SCALE: 1/4" = 1'-0"

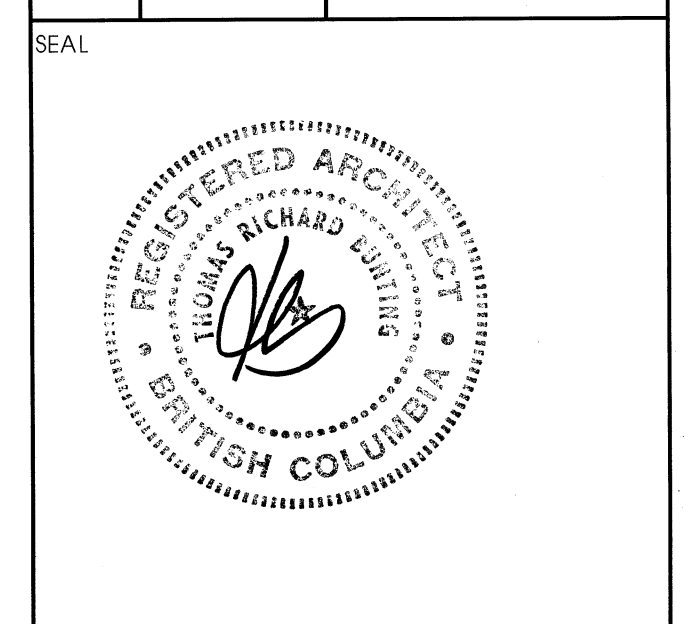


11 STAIR #2 - SECOND FLOOR  
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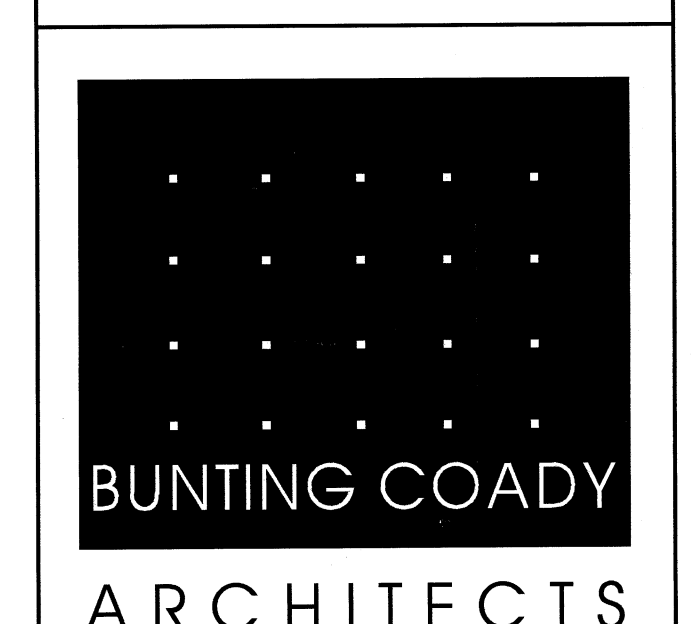
12 STAIR #2 - GROUND FLOOR  
SCALE: 1/4" = 1'-0"

NO	DATE	REVISIONS
3	APR.25.2001	ISSUED FOR TENDER
2	APR.20.2001	RE-ISSUED FOR BLDG. PERMIT
1	FEB.19.2001	ISSUED FOR BLDG. PERMIT



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STAIR NO. 2  
PLANS AND SECTIONS

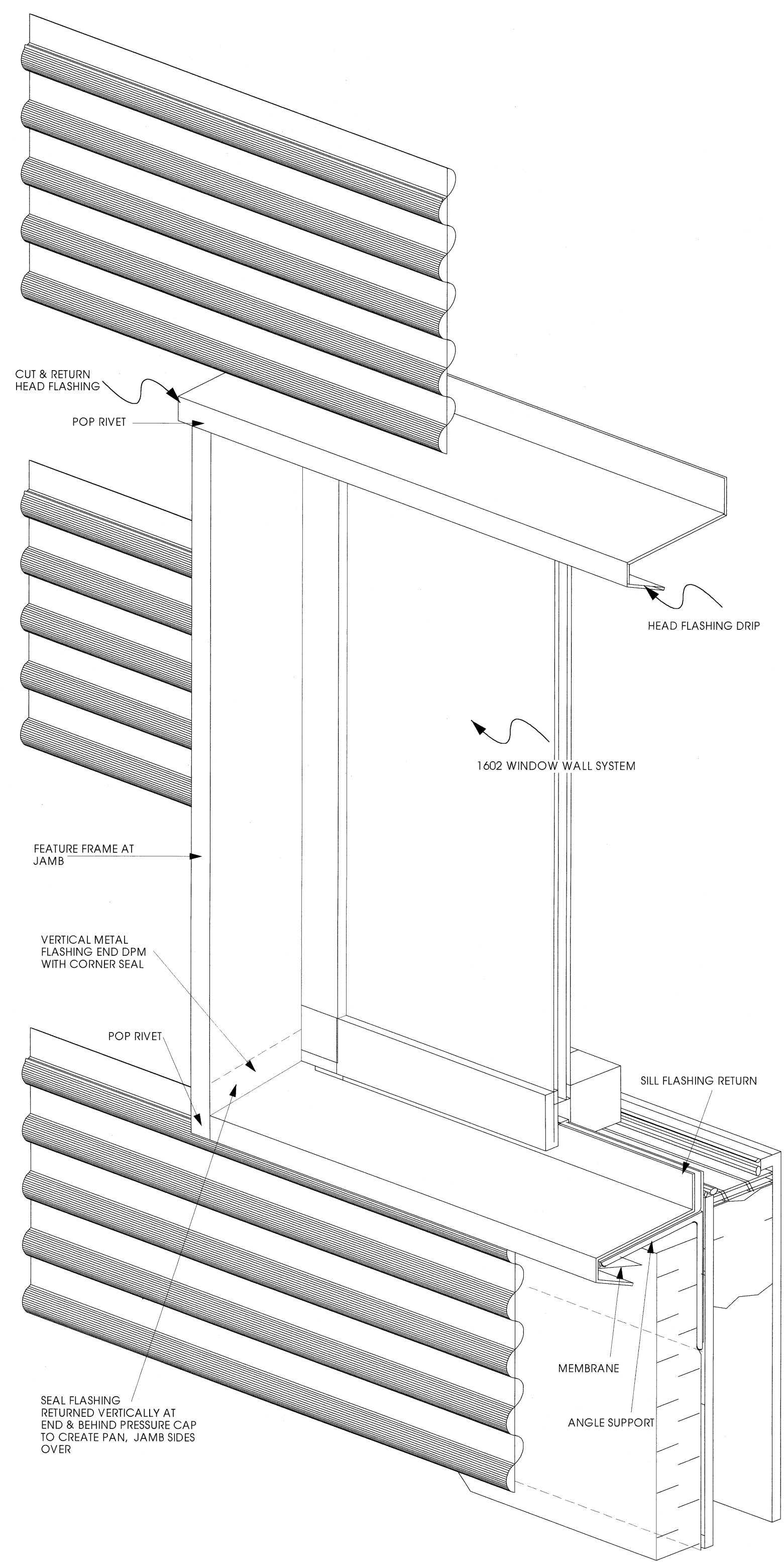


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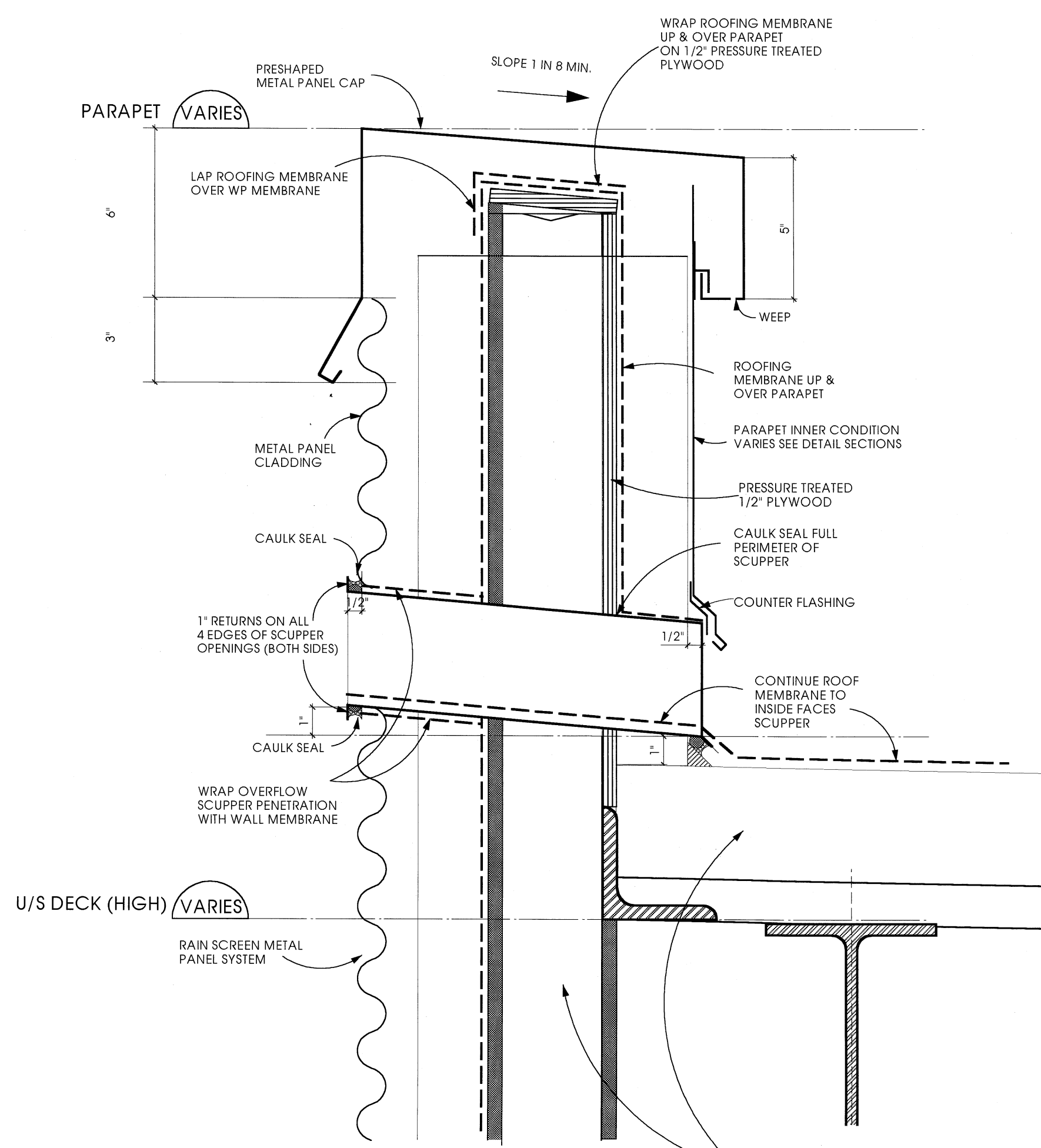
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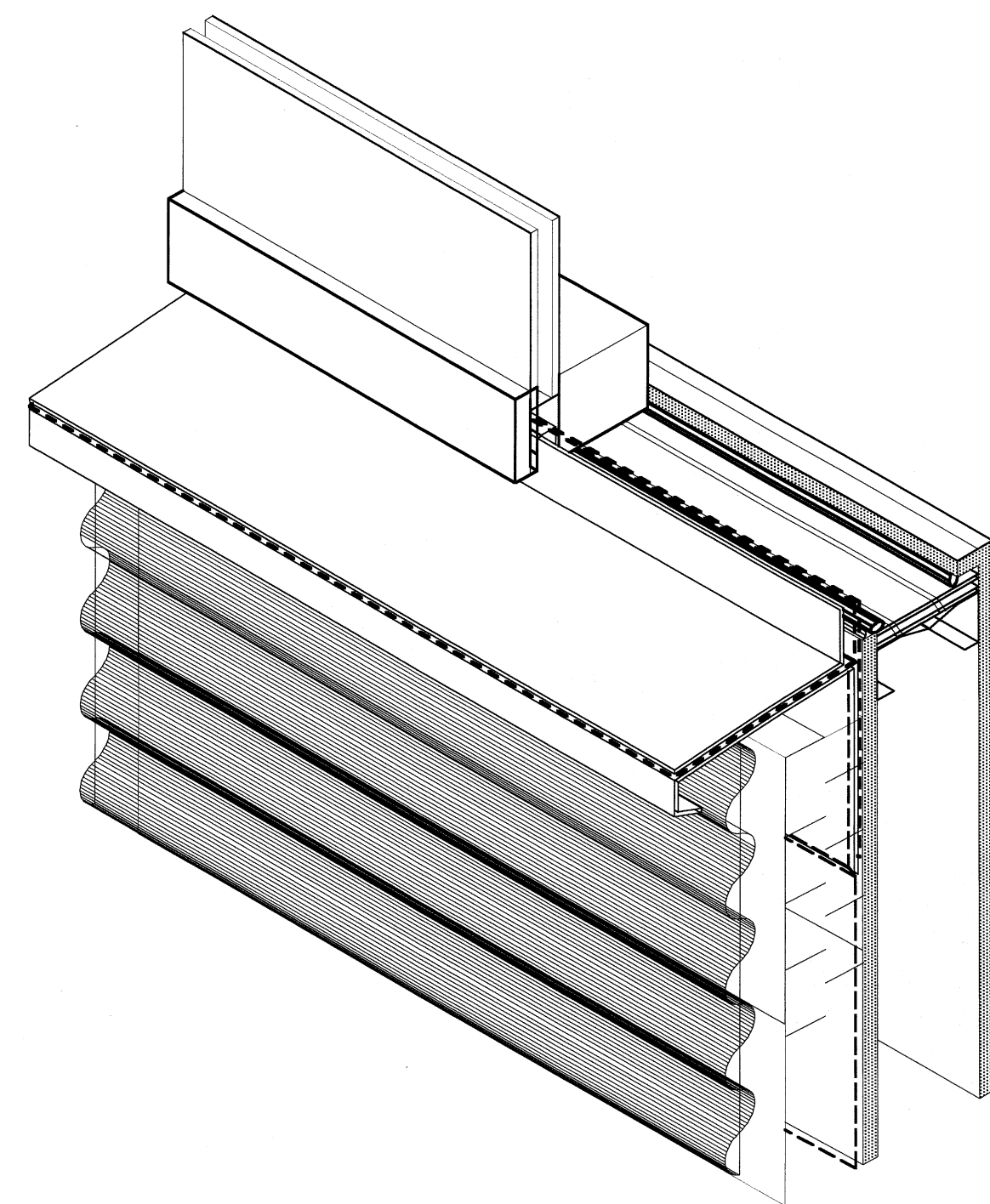
SCALE	PROJECT
A506	0019
DRAWN	DATE
IE	DECEMBER



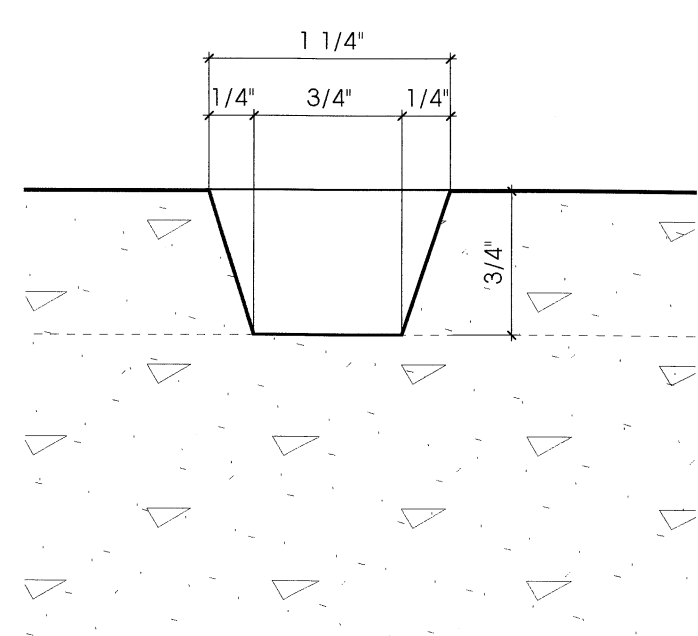
1 WINDOW DETAIL  
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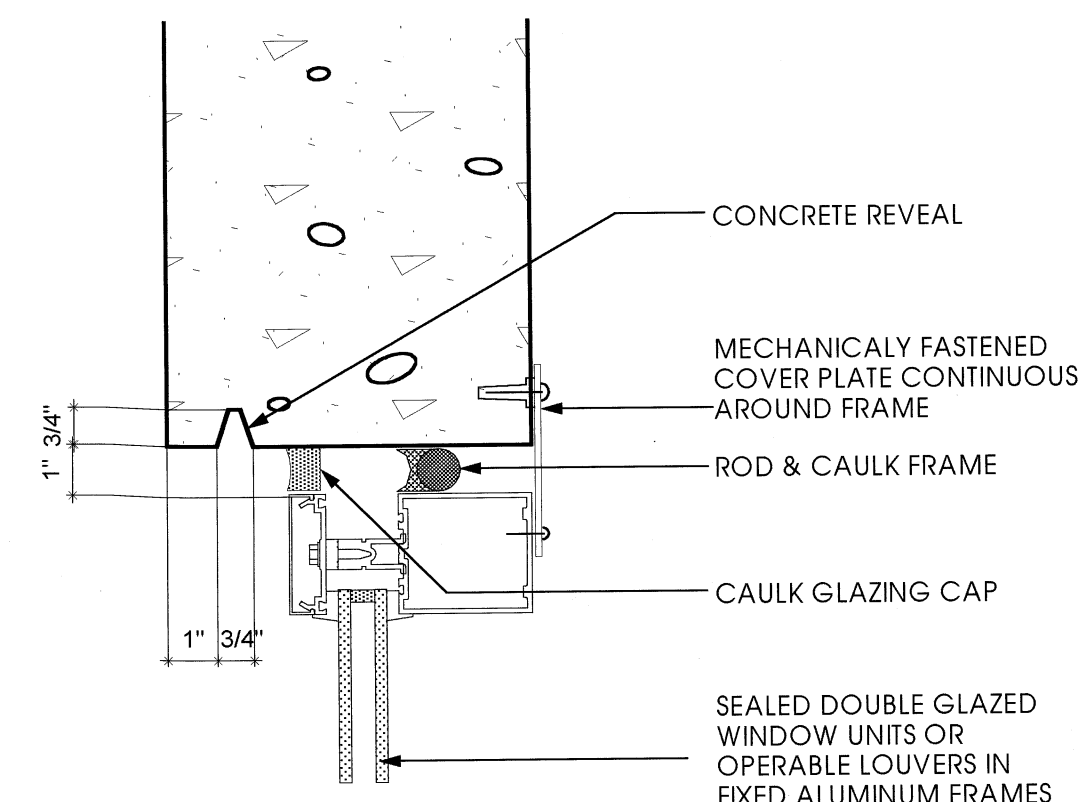
3 SCUPPER / PARAPET DIAGRAM  
SCALE: 3/4" = 1'-0"



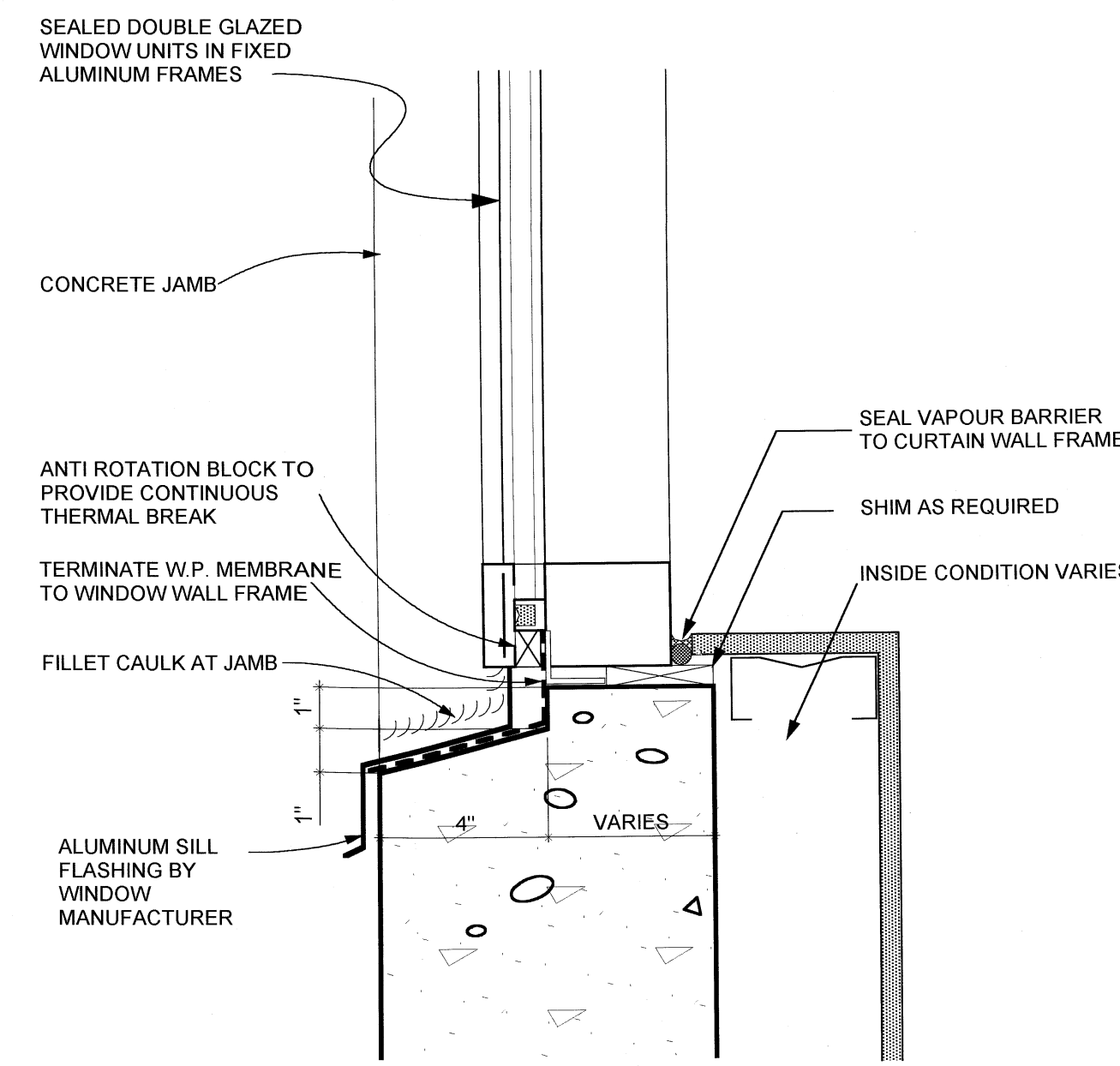
4 WINDOW SILL ISOMETRIC  
N.T.S.



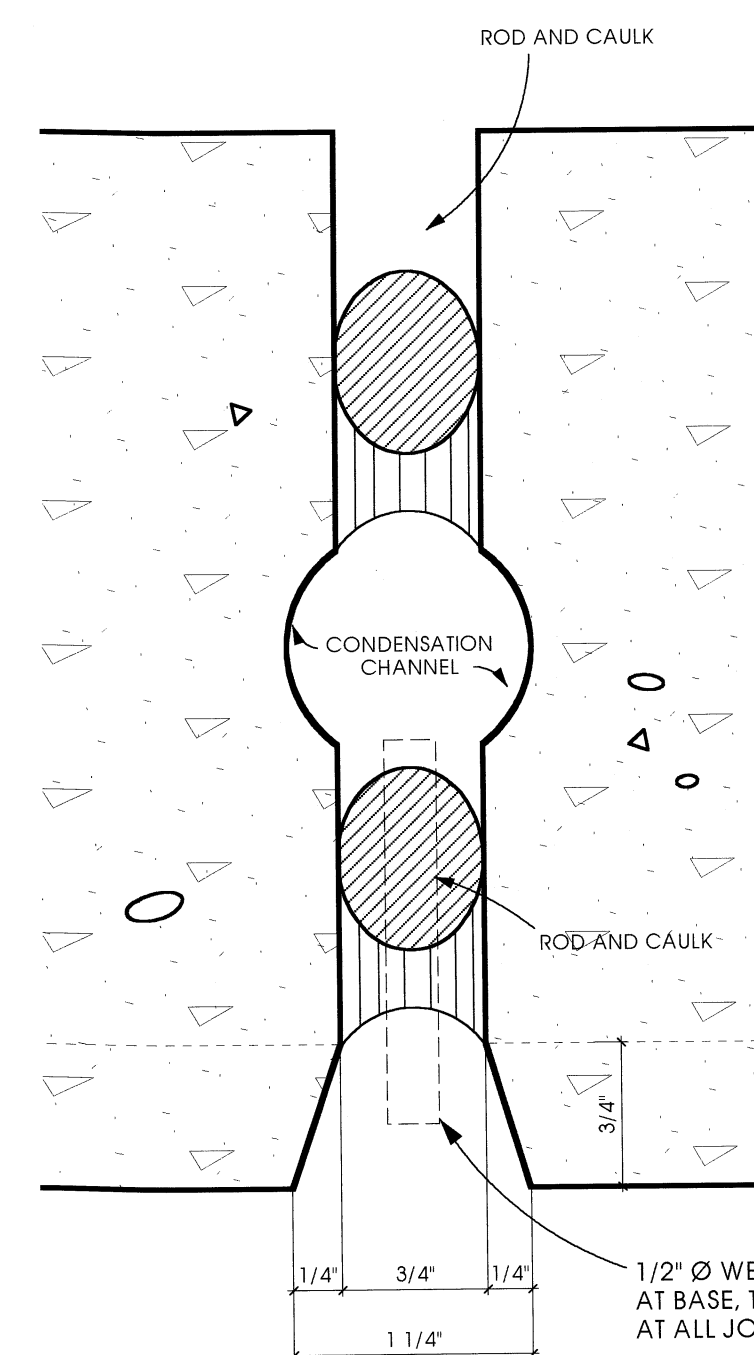
5 TYP. REVEAL DETAIL  
FULL SCALE



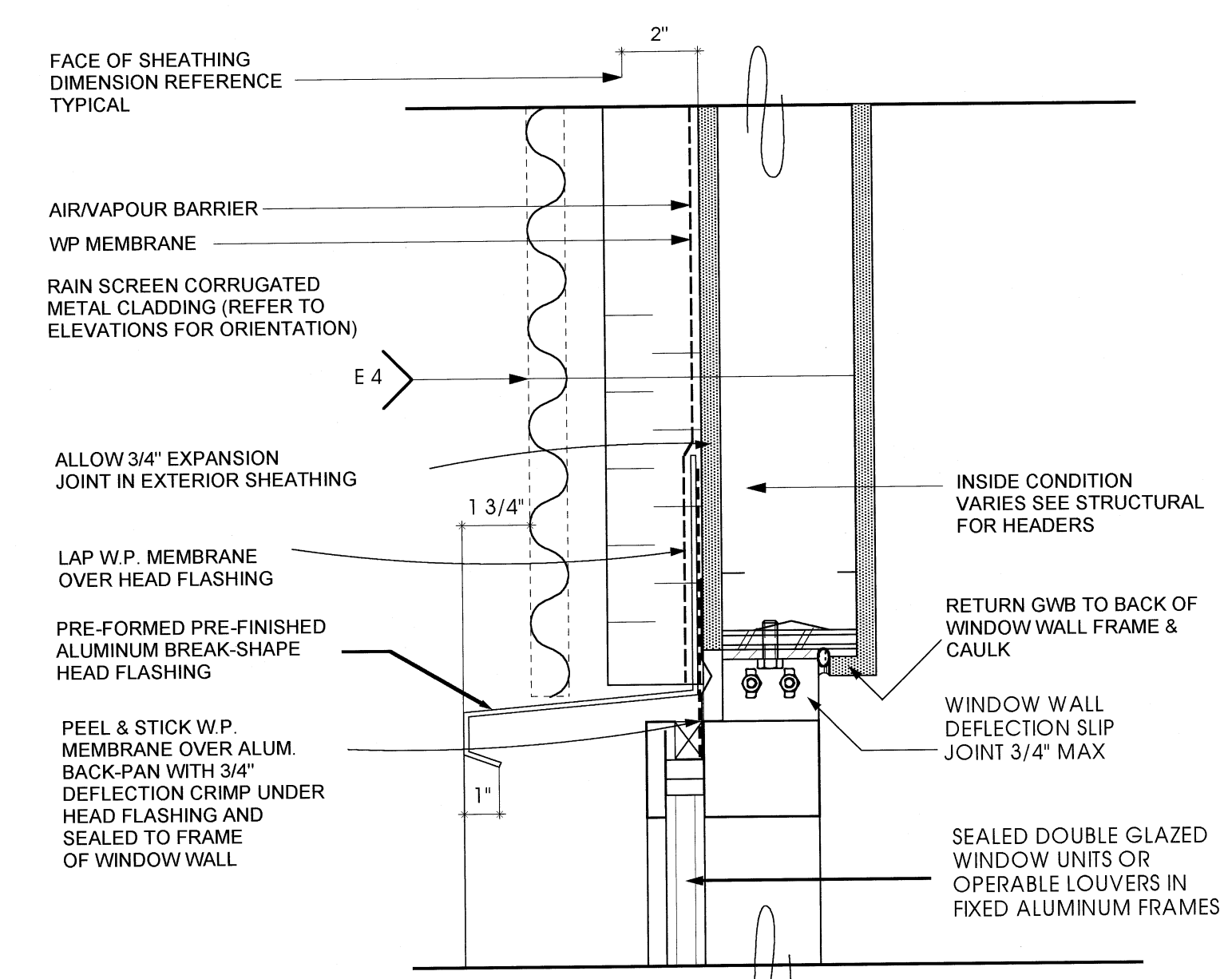
6 CONCRETE HEAD  
SCALE: 3/4" = 1'-0"



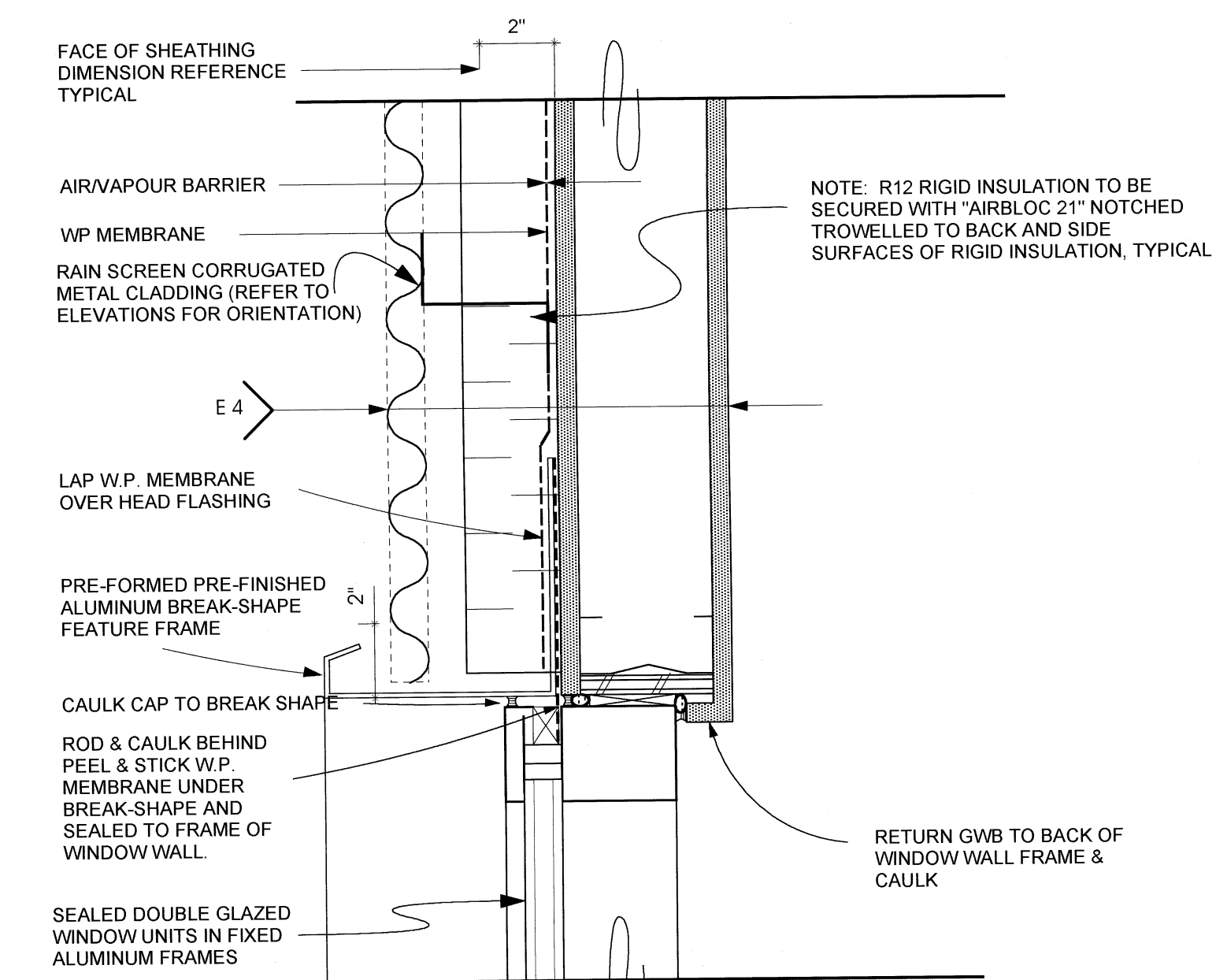
7 CONCRETE SILL  
SCALE: 3/4" = 1'-0"



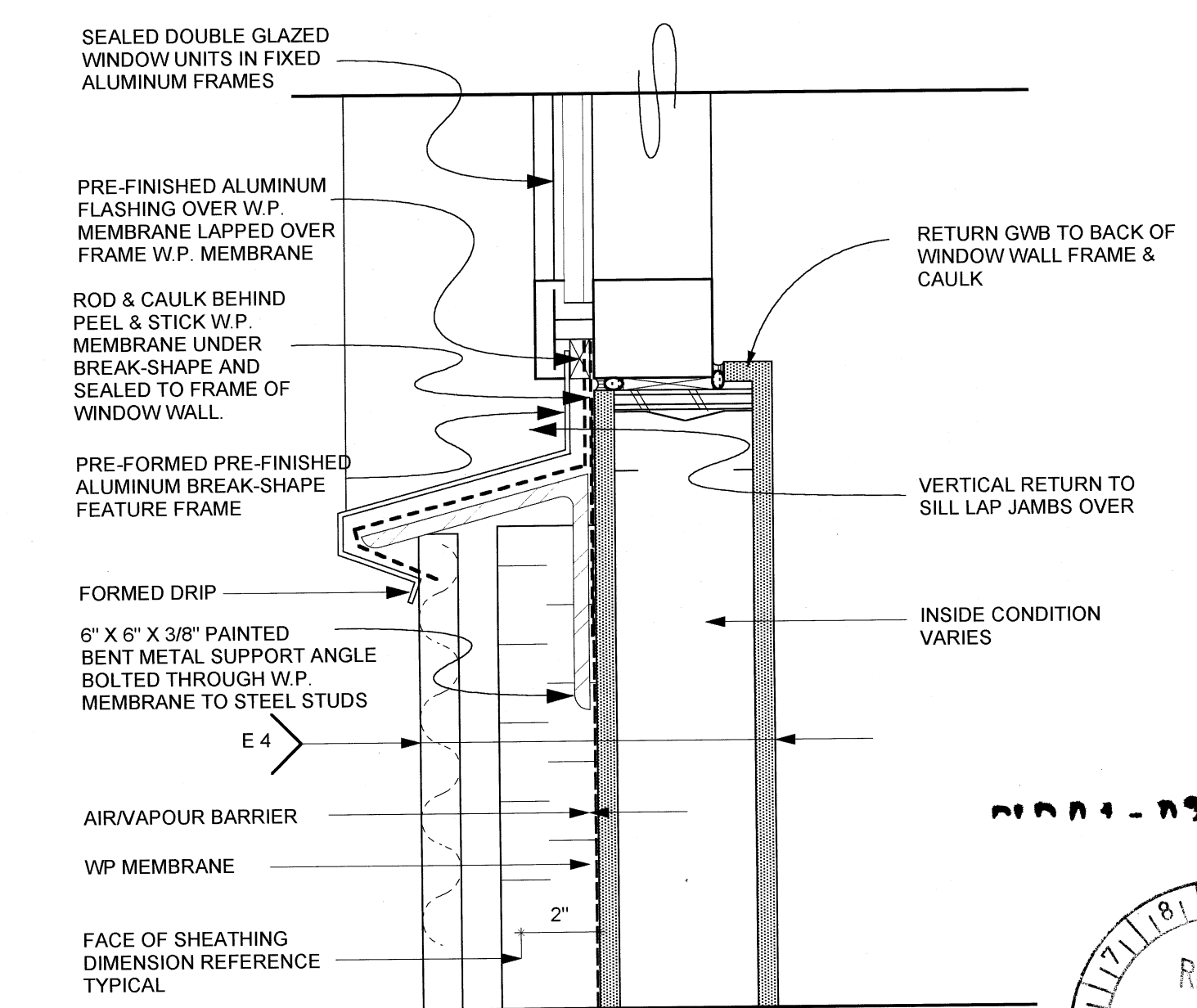
8 TYP. EXPANSION JOINT  
FULL SCALE



10 WINDOW HEAD DETAIL  
SCALE: 3/4" = 1'-0"



11 WINDOW JAMB DETAIL  
SCALE: 3/4" = 1'-0"



12 WINDOW SILL DETAIL  
SCALE: 3/4" = 1'-0"

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NO	DATE	REVISIONS
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1	FEB. 19 2001	ISSUED FOR BLDG. PERMIT

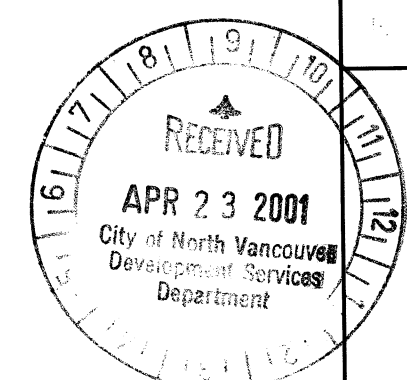


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TYPICAL DETAILS

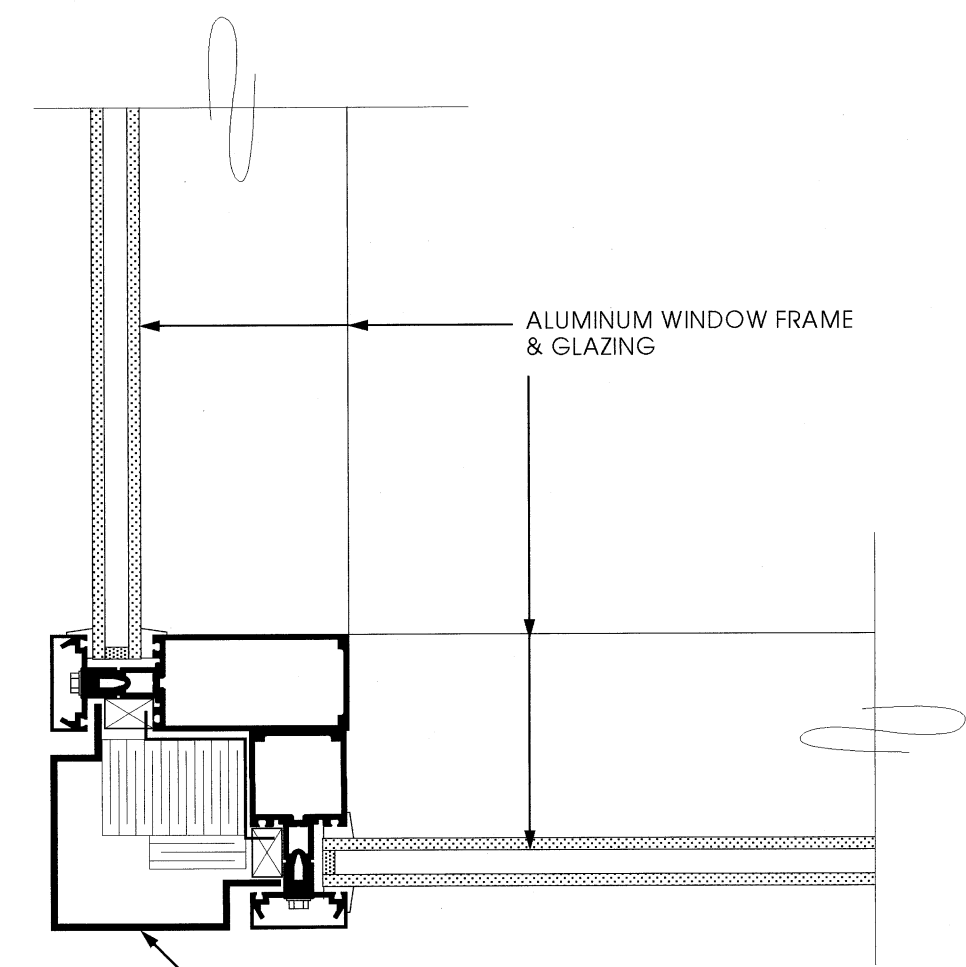
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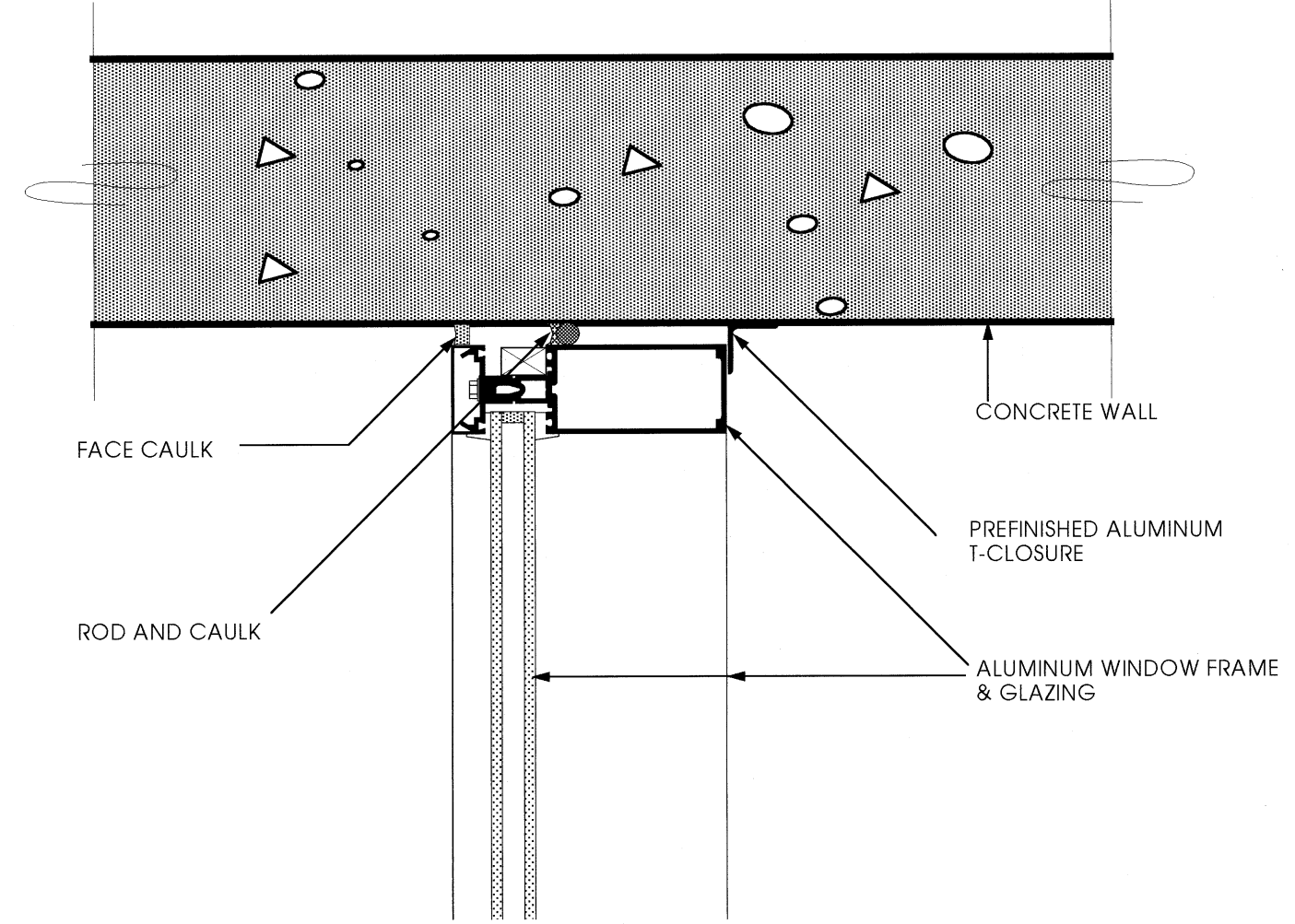


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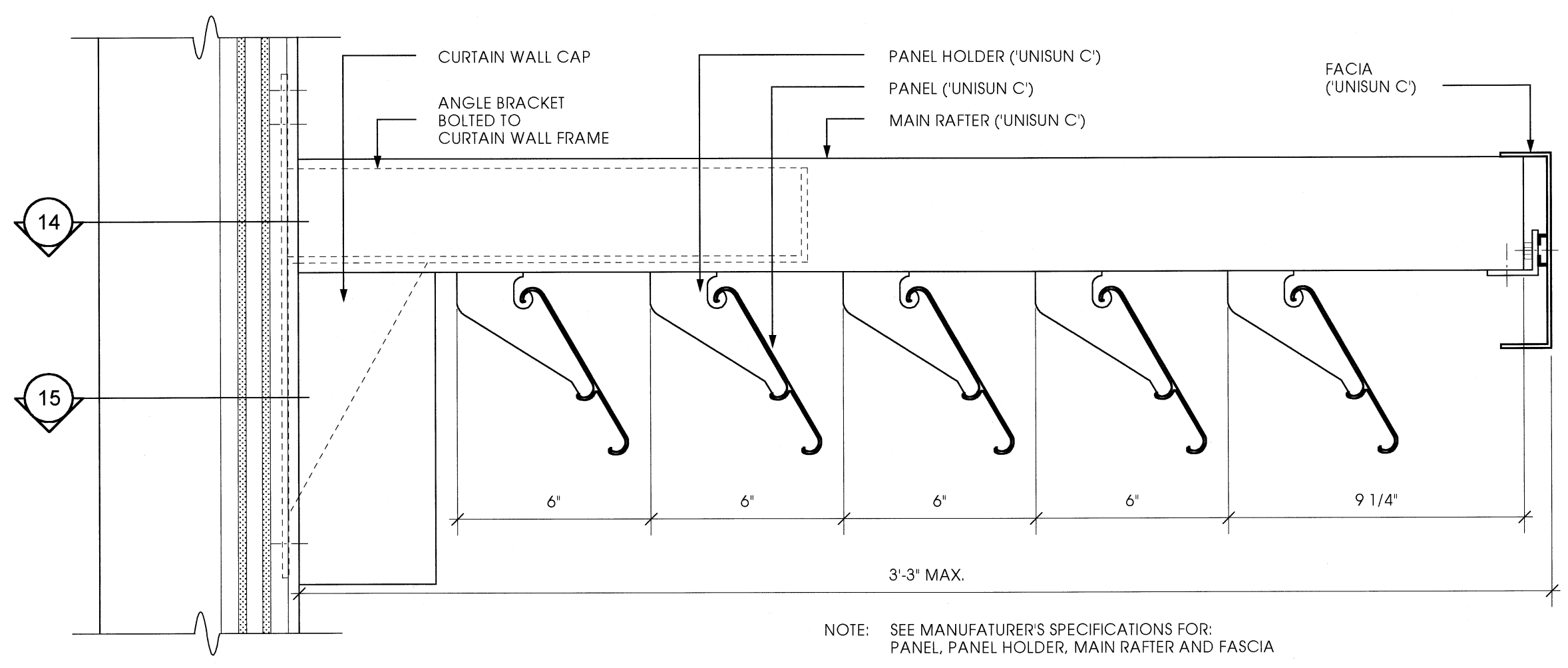
SCALE	PROJECT
AS NOTED	0019
DRAWN BY RMM	DATE
	DECEMBER



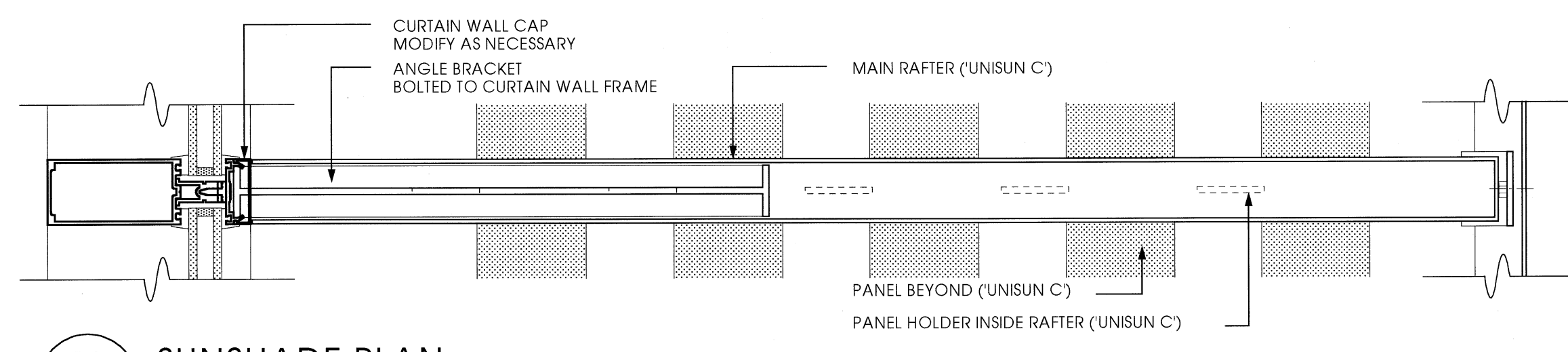
1 CORNER MULLION PLAN  
SCALE: 3" = 1'-0"



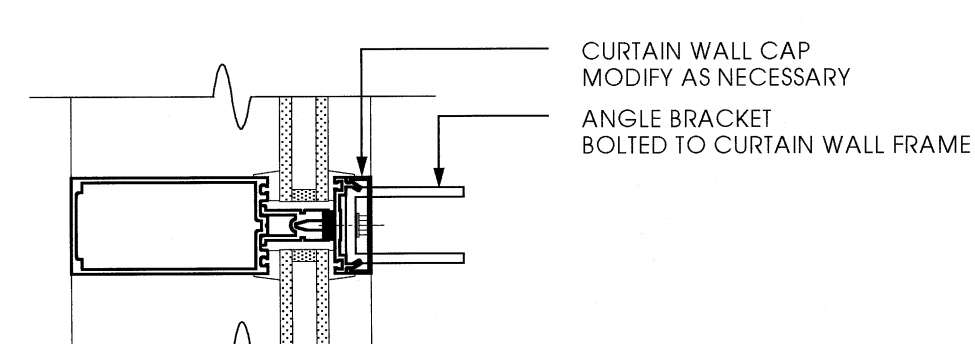
2 MULLION TO CONC. TYP.  
SCALE: 3" = 1'-0"



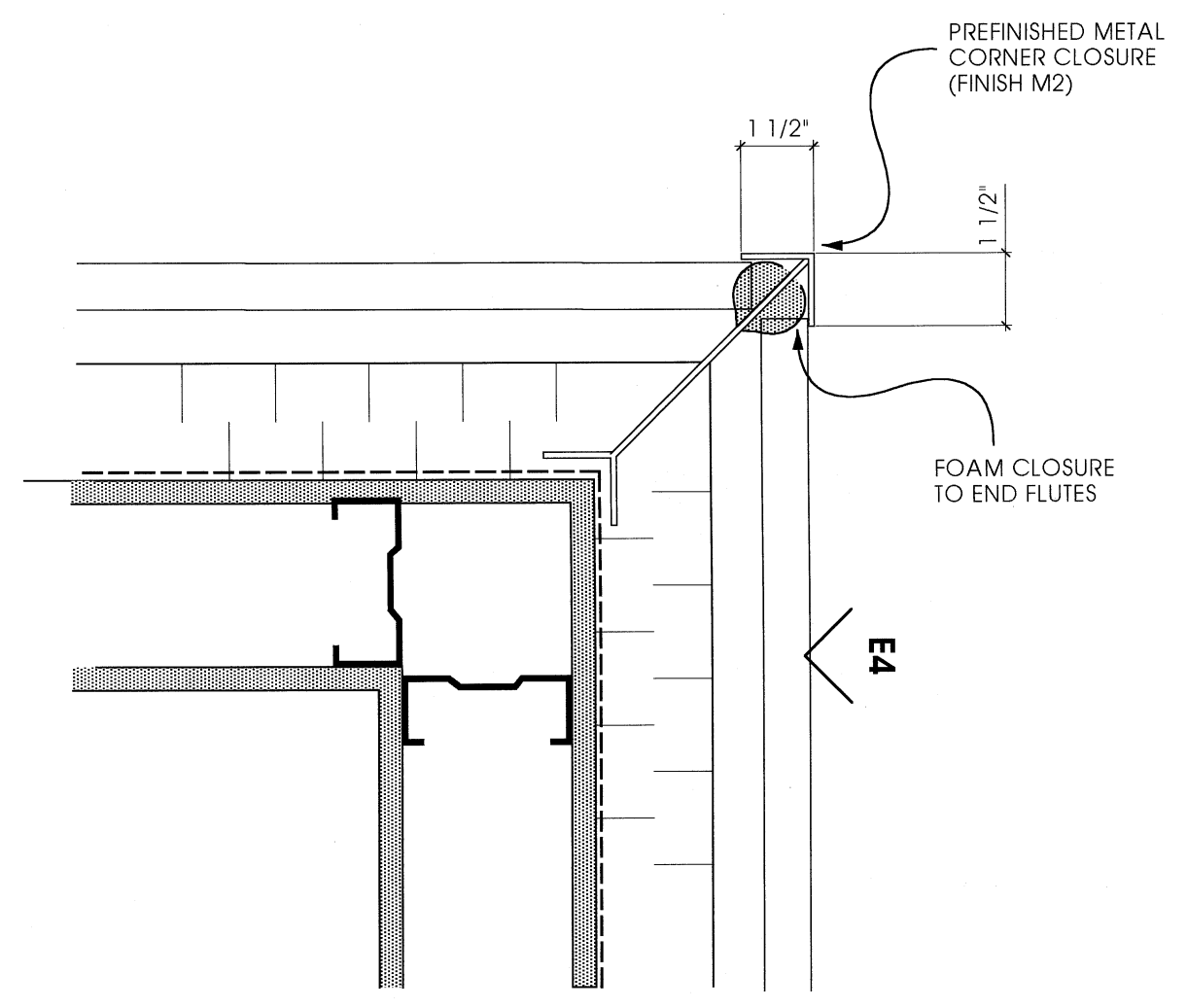
13 SUNSHADE ELEVATION  
SCALE: 3" = 1'-0"



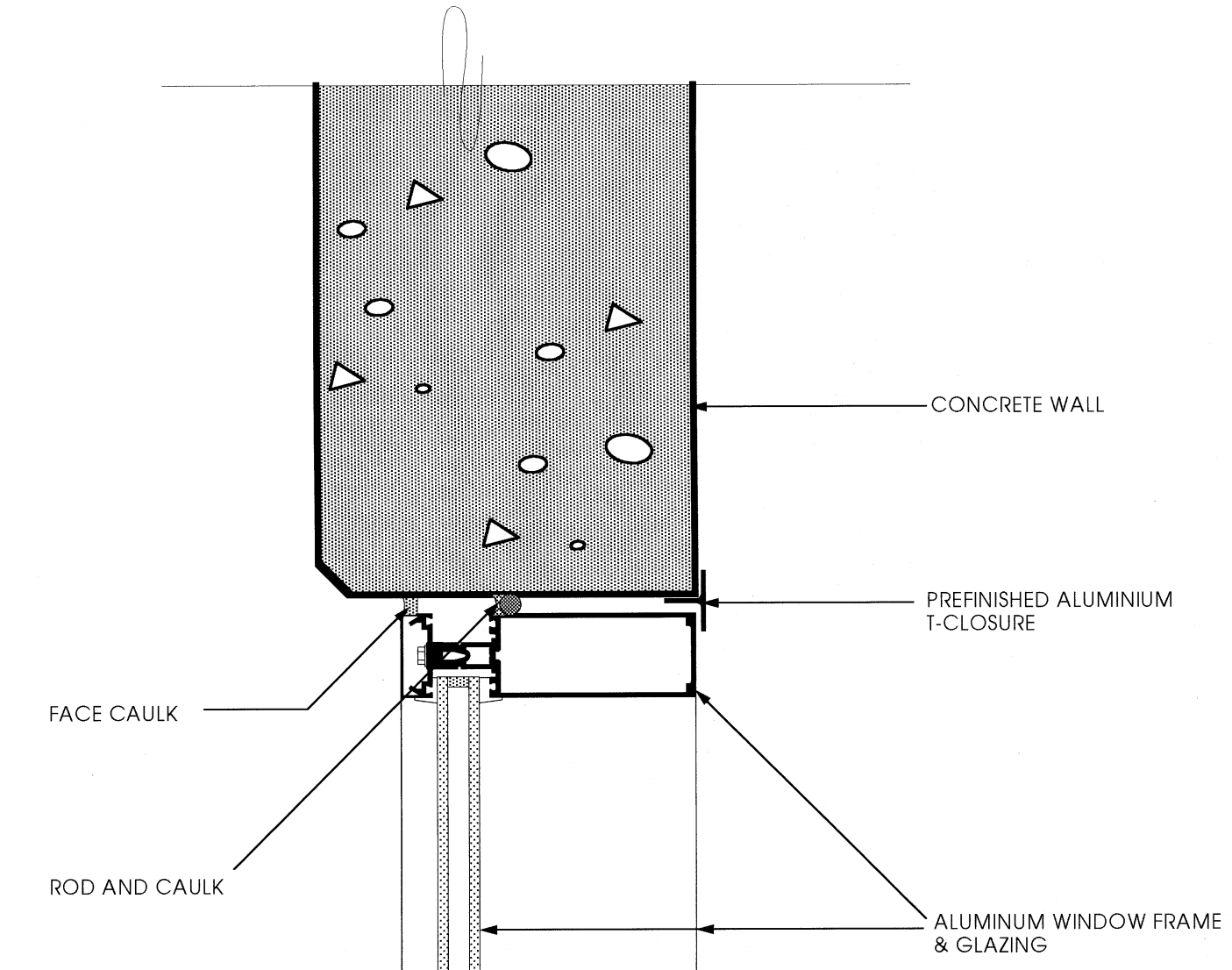
14 SUNSHADE PLAN  
SCALE: 3" = 1'-0"



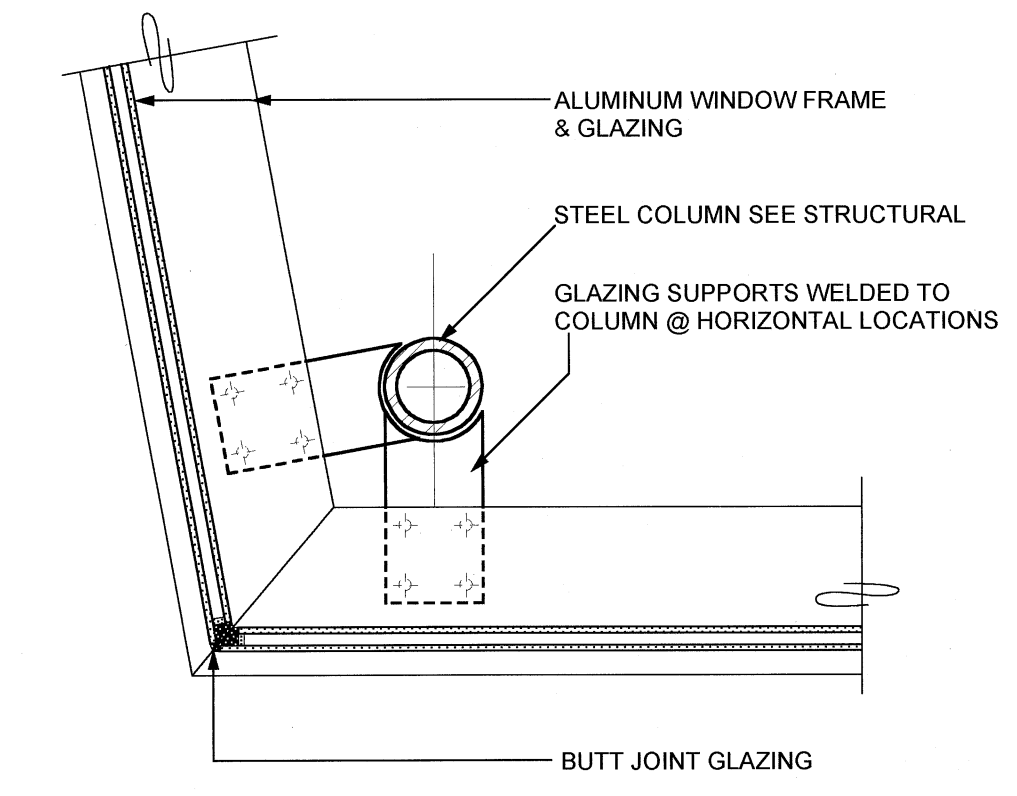
15 SUNSHADE BRACKET PLAN  
SCALE: 3" = 1'-0"



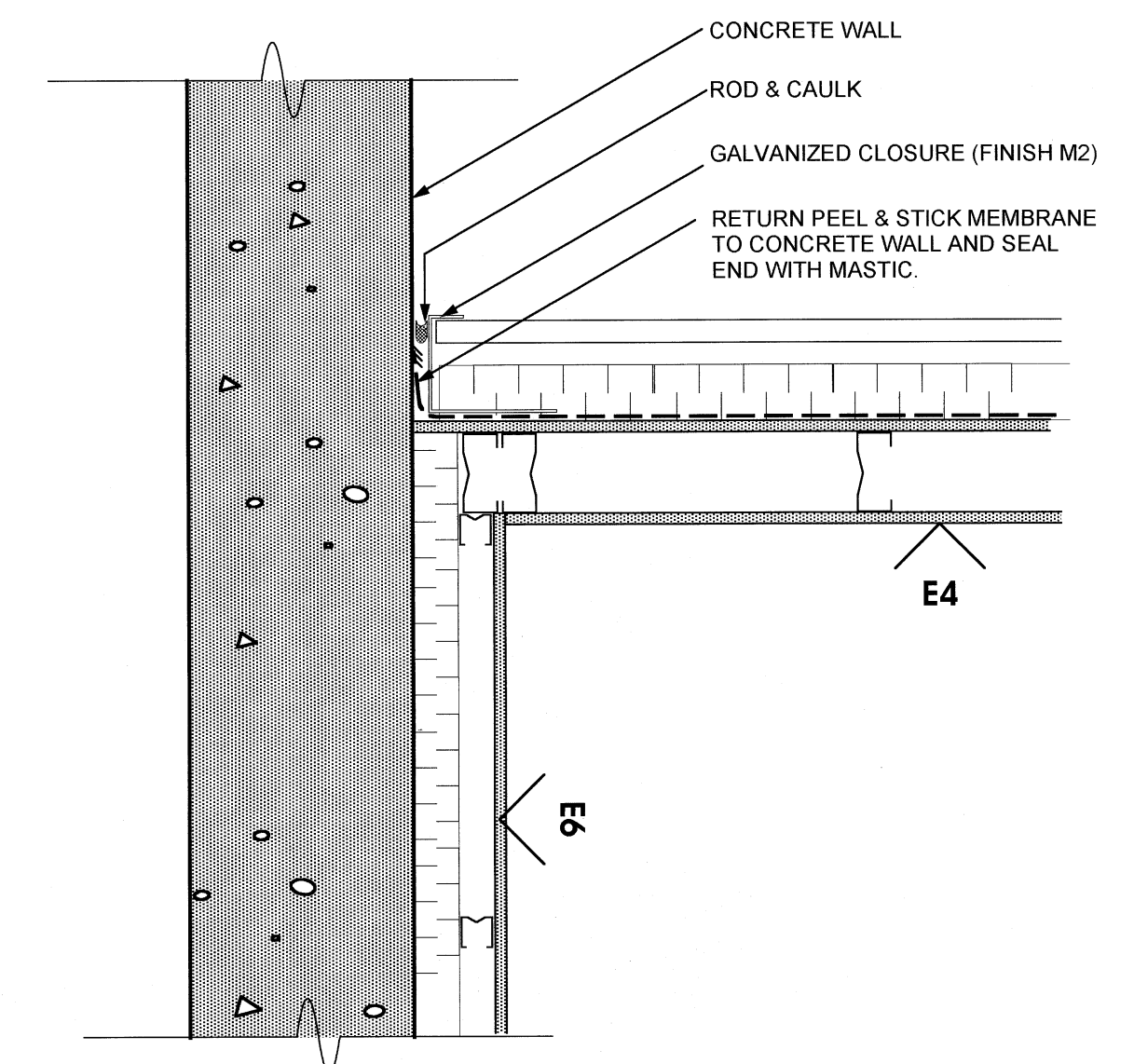
12 CLADDING CORNER PLAN  
SCALE: 3" = 1'-0"



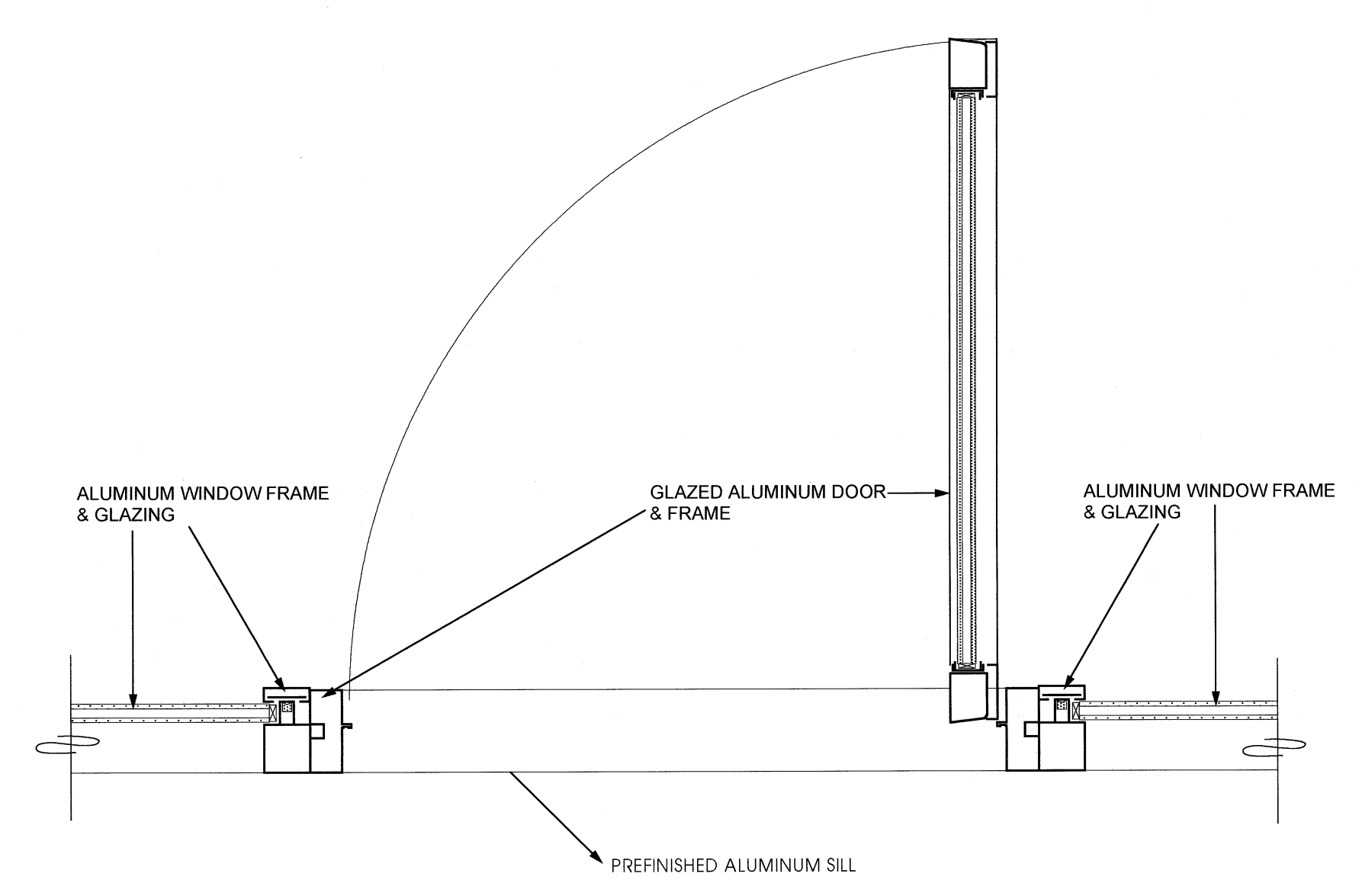
4 MULLION TO CONC. @ STAIR  
SCALE: 3" = 1'-0"



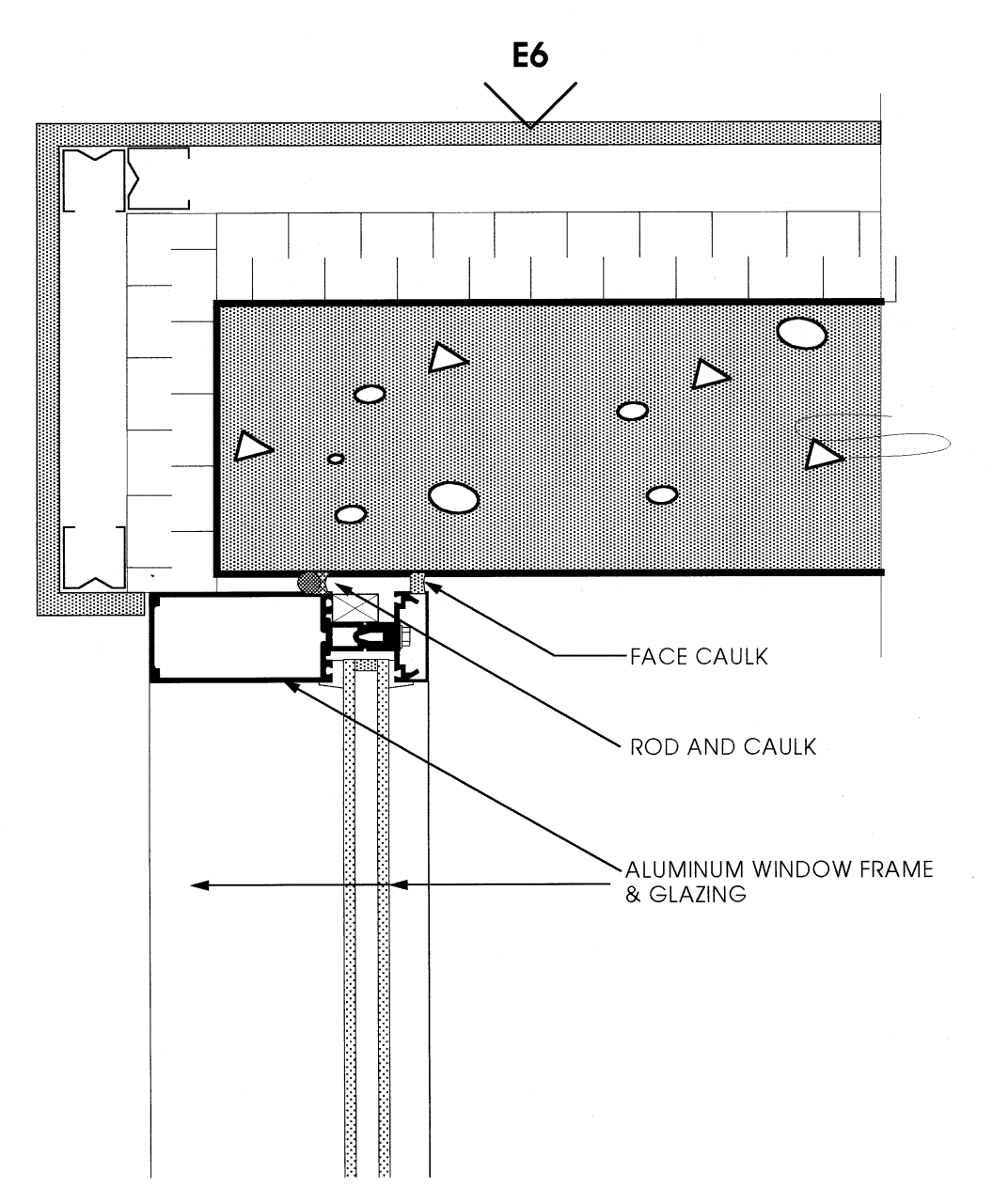
7 GLAZING AT STAIR CORNER  
SCALE: 1 1/2" = 1'-0"



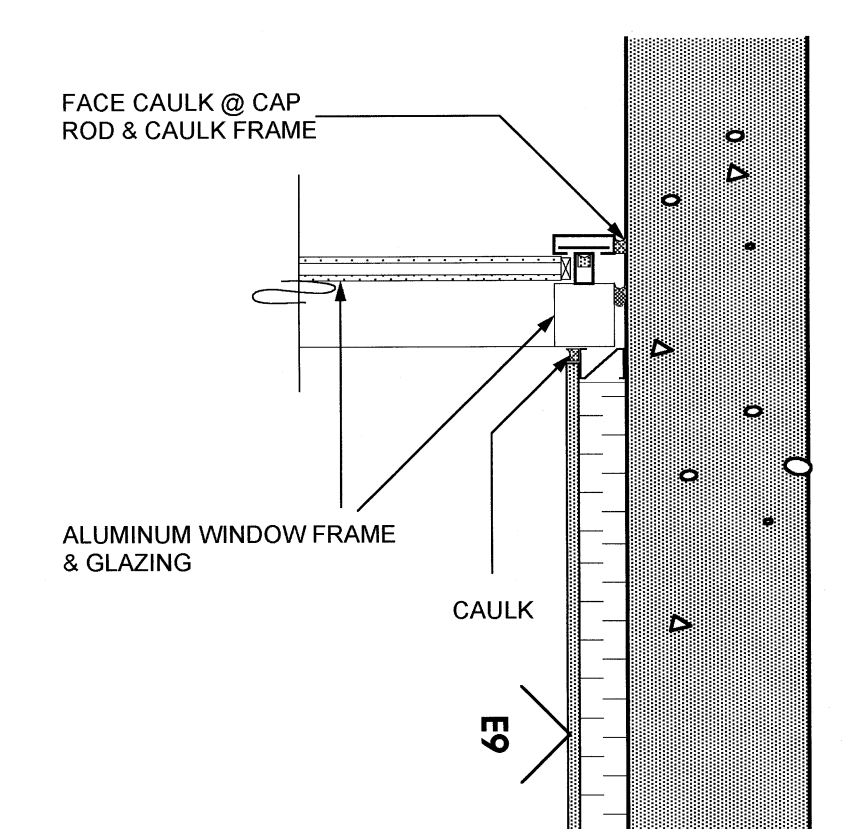
8 CLADDING @ CONC. PLAN  
SCALE: 1 1/2" = 1'-0"



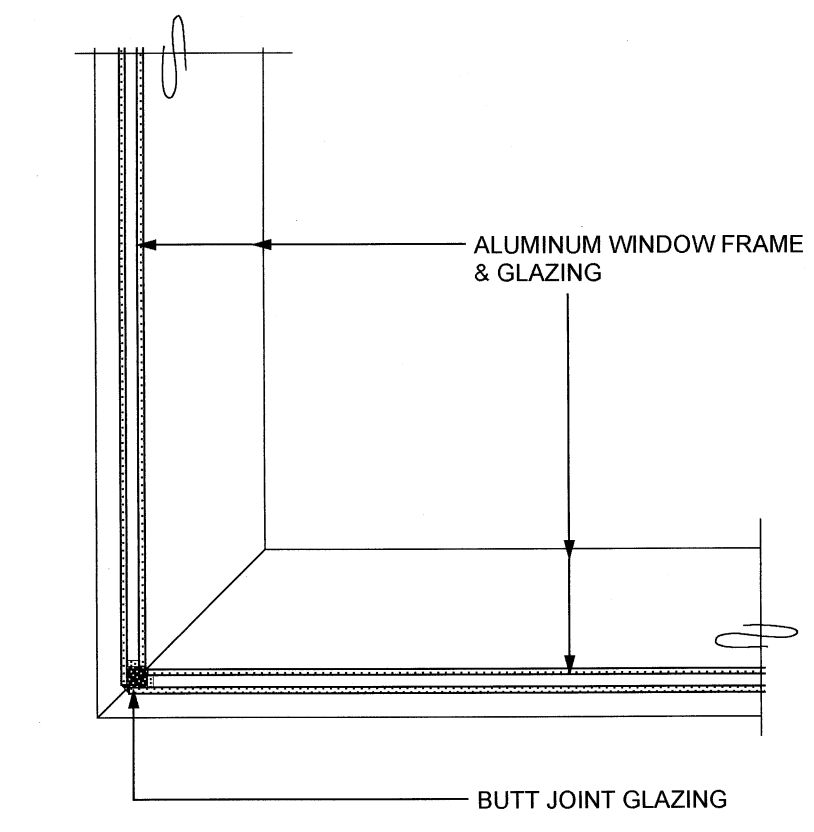
5 DOOR @ BALCONY  
SCALE: 1 1/2" = 1'-0"



6 MULLION @ INSULATED WALL  
SCALE: 3" = 1'-0"



9 MULLION @ INSULATED CONC.  
SCALE: 1 1/2" = 1'-0"



10 GLASS BUTT JOINT @ LOBBY  
SCALE: 1 1/2" = 1'-0"

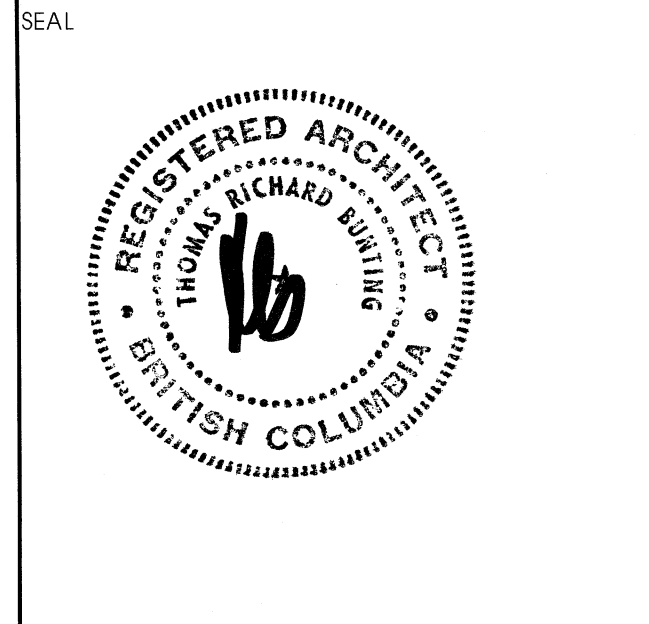
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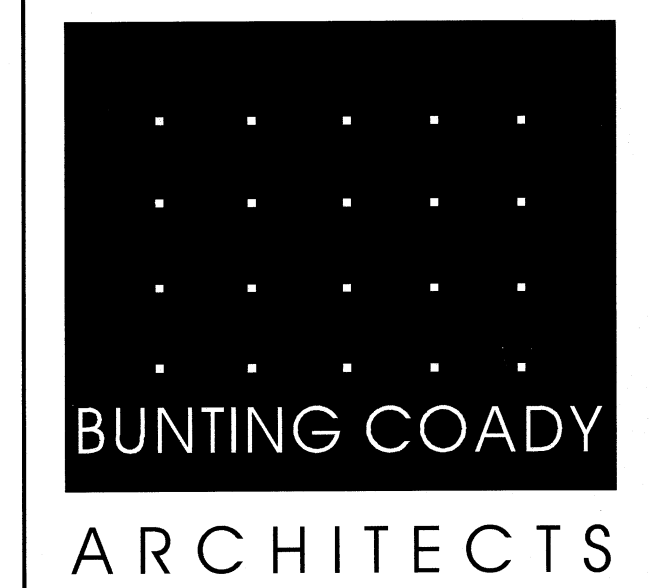
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NO.	DATE	REVISIONS
2	APR. 20, 2001	RE-ISSUED FOR BLDG. PERMIT
1	FEB. 19, 2001	ISSUED FOR BLDG. PERMIT



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GLAZING DETAILS



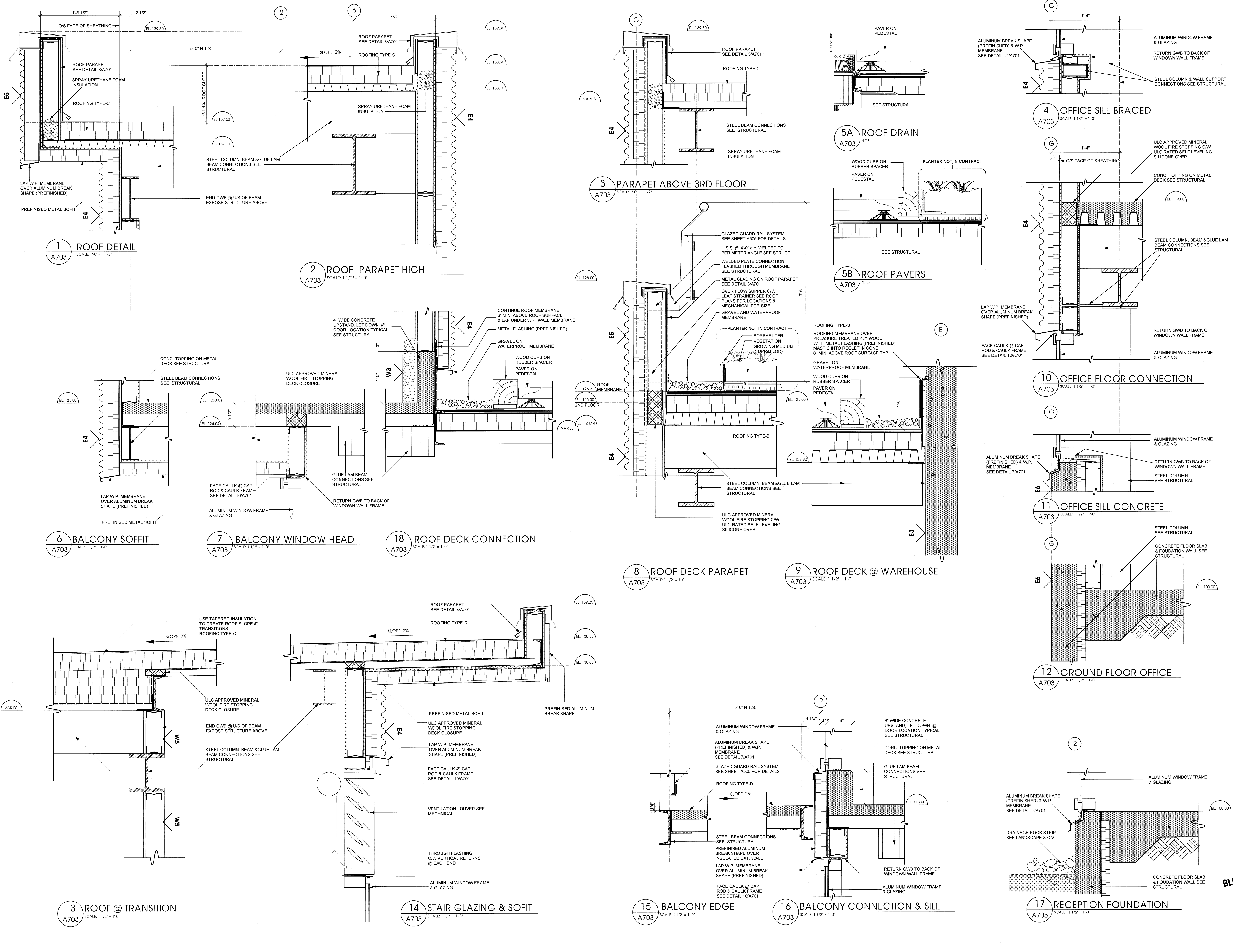
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AS NOTED	0019
DRAWN	DATE
E KMM	DECEMBER



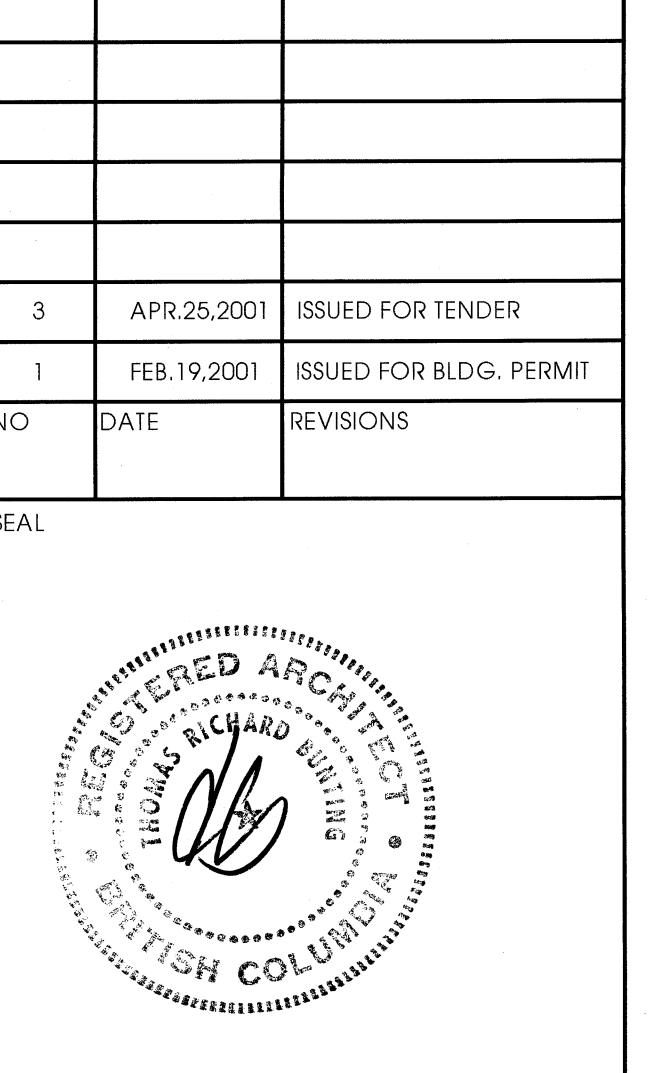
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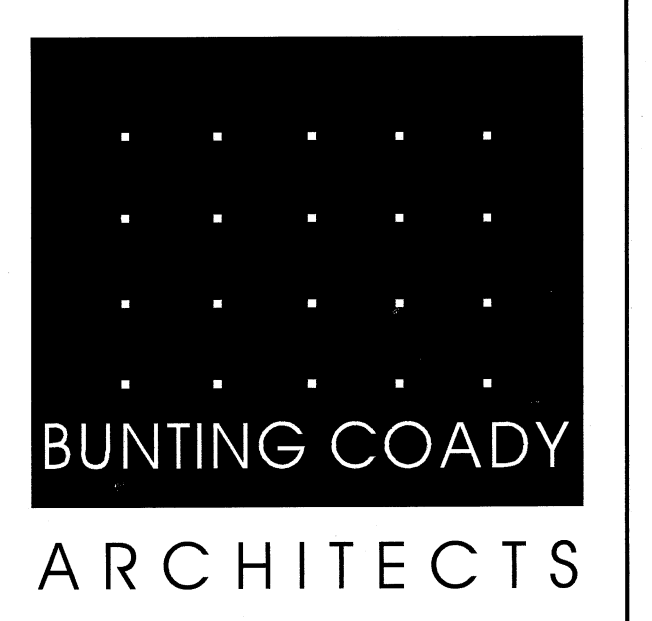
NO	DATE	REVISIONS
3	APR. 25, 2001	ISSUED FOR TENDER
1	FEB. 19, 2001	ISSUED FOR BLDG. PERMIT

NO	DATE	REVISIONS



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**A. GENERAL**

- 1. Structural drawings are to be read in conjunction with other related drawings including existing drawings, for dimensions, elevations and presence of openings, inserts, and mechanical/electrical elements.
2. Prior to commencement of work, contractor shall compare all related drawings; confirm all dimensions and field measure/confirm all existing conditions. Report any discrepancies to the Architect and Engineer of Record (Engineer's hencoforth).
3. If discrepancies relating to structural work are found in the various documents, the more stringent provisions shall apply, unless approved by the Engineer. Specifications shall control over these drawings and General Notes only where the specifications provide for more stringent requirements. Contractor, suppliers and subcontractors are to ensure that they are working with the 'issued for construction' drawings.
4. Bracing of the structure and all components during construction, including any underpinning, shall remain the sole responsibility of the Contractor.
5. These drawings show requirements for completed structure only. The design and inspection of falsework, shoring and reworking is the responsibility of the Contractor and shall conform to WCB standards.
6. All shop drawing reviews by the Engineer constitute review for general concepts only; the detailed design remains the responsibility of Contractor/Fabricator. All components shall be assembled and erected in accordance with final reviewed shop and erection drawings. No fabrication/erection shall proceed until review has been completed by the Engineer.
7. Design Loads:
a) Specified uniform loads Live Load Superimposed Dead loads
Roof (snow load base on) S=2.5 kPa (52 psf) 0.65 kPa (13.5 psf)
Roof Patio Per Snow Drift 1.0 kPa (40 psf) paver 0.75 kPa (15 psf) no paver
2nd Floor/3rd Floor 2.4 kPa (100 psf) 3.3 kPa (70 psf)
Main Floor (L.L. including partition) 4.8 kPa (100 psf) 1.2 kPa (25 psf)
Warehouse 19 kPa (400 psf) 0.5 kPa (10 psf)
Stairs, and Lobby 4.8 kPa (100 psf) 2.4 kPa (50 psf)
Superimposed dead loads are non-structural dead loads including architectural topping, partitions, roofing material, pavers, ceiling finishes and mechanical/electrical conduits/fixtures.
b) Seismic and Wind
Seismic is based on Za = 4 Zv = 4
v = 0.2
I = 1.0
R = 2.0
Sf = 3.0
Wind is based on q 1/30 = 0.44 kPa (9.2 psf)
q 1/10 = 0.36 kPa (7.5 psf)

- 8. These drawings show structural work required to meet provisions of Part 4 of the BCBC 1998.
9. Seismic design of Secondary component items including their attachment to the structure is the responsibility of others.
10. All codes and documents referred to in these General Notes are to be the latest edition.
11. The Contractor is solely responsible to give the Engineer reasonable advance notice of when structural work is ready for review by the Engineer. (Min. 24 hours prior to pour or concealment) Contractor is responsible for reviewing his own work and the work of his subcontractors prior to review by the Engineer.
12. All structural work requires written review by the Engineer, including:
a) Concrete Reinforcement (including concrete tilt-up panels)
b) Masonry Reinforcement (including non-load bearing partitions)
c) Structural Steel (including decking)
13. Material testing shall be directed by the Engineer at the expense of the Owner.
14. Concrete testing shall be in accordance with CAN/CSA A23.2-94 and carried out by an independent testing agency approved by the Engineer. Unless permitted by the Engineer, a minimum of 3 test cylinders shall be cast for each 50 cu. meter/50 cuyards or each day's pour, whichever is less. Test one at 7 days and two at 28 days and submit written reports for review by the Engineer.
15. Test reports shall identify the locations where concrete is being tested with gridlines and elevations.
16. The Owner shall appoint an independent CSA certified testing agency to carry out representative testing of bolt torque and welding on structural steel work, including decking. This testing shall take place prior to concealment of all structural steel.
17. The Owner shall appoint an independent CSA certified testing agency to carry out required testing of protective membranes to concrete parkade surfaces where required in accordance with CSA S413-94.
18. Submit concrete test results max. 24 hours after test.
19. Additional testing and field review resulting from rejection of more than 5% of work will be at the Contractor's expense.

**B. FIELD REVIEW AND TESTING**

- 1. Design of foundations is based on soils report of August 21,2000 by Geo Pacific Consultants Ltd. with an allowable bearing pressure of 2000psf on perched ground for strip & spread footings. All footings shall bear on soil capable of this pressure without failure or undue settlement. If native soil or fill are found during construction to have a lower allowable bearing pressure, notify the Engineer, and provide revised foundation to the Engineer's specifications.
2. Follow all recommendations given in soils report for preloading, backfill, drainage, sub-base preparation and other requirements.
3. Contractor is solely responsible to ensure that Geotechnical Engineer reviews and confirms allowable bearing pressure and approves subgrade installation prior to pouring concrete for footings foundations.
4. The Owner shall retain an approved testing agency to carry out density testing of subgrade and base material. Testing of subgrade material is to be carried out immediately prior to installation of slab on grade components and during lifts as specified by the Geotechnical Engineer. Core must be taken not to disturb subgrade after approval and prior to pouring concrete.
5. Contractor shall be responsible for all temporary drainage during excavation.
6. Do not backfill retaining walls until cured min. 14 days unless otherwise approved by the Engineer. Consult the Engineer prior to pour to confirm if floor/roof restraint required prior to backfilling.
7. All footings shall be centred on columns and walls unless noted otherwise.
8. Concrete placed under water shall conform to Section 19.6, CAN/CSA-A23.1-94.
9. Provide 50mm (2") thick concrete ground seal under footings/grade beam if required by site conditions.
10. For all elevations and drainage slopes, see Architectural Drawings and requirements identified in the geotechnical report.
11. Unless otherwise noted, design and supervision of excavation, shoring and underpinning of adjacent structures, where required, shall be carried out by a Professional Geotechnical Engineer retained by the Contractor. All costs are to be included in this contract.
12. Where footing elevations vary, follow requirements of typical details shown on drawing. Contractor shall establish footing elevations based on all requirements including maximum slopes, and Electrical, Mechanical and Architectural information.
13. Footing elevations, if shown, are for bidding purposes only, are not final, and may vary according to site conditions. All footings must be taken to a bearing layer approved by the Geotechnical Engineer.
14. Bearing surfaces must be protected from freezing before and after footings are poured.

**C. FOUNDATIONS**

- 1. All concrete shall conform to the requirements of CAN/CSA A23.1-94. Cement shall be Type 10 Portland Cement unless otherwise noted. Normal weight concrete for various purposes shall be as follows:
ELEMENTS MIN. 28 DAY STRENGTH MPa(psi) MAX. SLLUMP mm.(inch) MAX. SIZE AGGREGATE mm.(inch) EXPOSURE CLASSIFICATION Fly Ash Content % Total
Foundations and Footings 25 (3600) 75 (3") 20 (3/4") - 50
Walls (Tilt-up) 35 (5000) 75 (3") 20 (3/4") F2 30
Slabs on grade:
Exterior/Warehouse 32 (4640) 75 (3") 20 (3/4") C2 30
Office area 30 (4350) 75 (3") 20 (3/4") - 50
Topping concrete 30 (4350) 100 (4") 10 (3/8") - 50
Masonry Grout 20 (3000) 200 (8") 10 (3/8") - -
b) Air contents to meet the requirements of the latest CSA 23.1 Concrete Exposure Classification.
c) Slumps listed are before the addition of super plasticizers. Tolerance in specified slump shall be ± 20 mm (3/4").
d) No calcium chloride is permitted in any form in the concrete mixes.
e) Submit mix designs to the Engineer and testing agency for review and approval prior to placement. Mix design submittals shall identify the elements for which they are intended.
2. Perform all works in accordance with CSA CAN3-A23.1-94, including the following:
a) Construction Tolerances
b) Fabrication and placement of reinforcing
c) Placement of concrete, including proper vibration and curing.
3. Take all precautions to ensure exposed concrete achieves finish desired by the Architect, including proper forming, mix design, site care and adequate vibration. Protect against damage during stripping and entire construction period.
4. See Architectural drawings for slab elevations, drainage, slopes and locations of registers, reveals and chamfers.
Unless noted otherwise, exposed corners of slabs, beams, slab bands, columns and walls shall be beveled 20mm x 20mm (3/4" x 3/4").
5. Blockouts, nailers, conduits, ducts, pipes, sleeves and other openings are subject to approval by the Engineer.
a) Openings and conduits are not permitted in wall zones, within 990 mm (39") of wall ends and intersections and columns.
b) Where permitted, space openings 2 diameters, or minimum 150 mm (6") apart.
c) Single openings larger than 300 mm (12") or a group of openings occupying together more than 300x300mm (1.0 sq. ft.) in any 1 sq. meter (10 sq. ft.) area shall not be permitted without the approval of engineer.
6. Expansion and/or construction sequence joints shall be installed in concrete structures greater than 45m (150 ft.) in length, details and locations shall be discussed with and approved by the Engineer in writing prior to construction.
7. Stripping of forms for structural elements is not allowed until concrete strength has reached 12 MPa for columns and walls and 17 MPa for slabs and beams. Strength of concrete shall be determined from field-cured cylinders.
8. All hot and cold weather concrete work shall be carried out in accordance with CAN/CSA A23.1-94
a) When temperature is expected to fall between 3C and -10C within 3 days of pouring concrete, the Contractor shall carry out one or more of the following procedures:
i) Make provisions to heat mix water or aggregate to maintain a minimum concrete temperature of 10C.
ii) Make provisions to heat the form work or soil surface. Concrete shall not be poured against any surface with a temperature less than 3C. (Calcium chloride or other de-icing salts are not permitted).
iii) Cover concrete with insulation blanket for the first 36 hours after pouring concrete. Do not pour when temperature is expected to fall below -10C within 3 days after pouring.
iv) Make provisions for a heated enclosure to maintain the temperature of all concrete surfaces above 10C for a minimum of 3 days after the pour.
v) Provide alternate mix designs for cold weather.
b) When the temperature is expected to rise above 25C the Contractor shall:
i) Make provisions to cool concrete to maintain a max. temperature of 32C.
ii) Make provisions to prevent concrete from drying.
9. Take measures to minimize shrinkage cracking including covering and dampening concrete in the curing stage.
10. Unless otherwise noted, provide 3.2mm wide x T/4 deep (1/8" x T/4) deep control joints in two directions in grade slabs centered on column lines, and maximum at 4500mm (15 ft.) o.c.
11. Unless otherwise noted, where expansion anchors are required, use Hilti KE 10 or approved equal; where chemical anchors are required, use Hilti HIT 100 epoxy, or approved equal.

**D. CONCRETE NOTES**

- 1. All concrete shall conform to the requirements of CAN/CSA A23.1-94. Cement shall be Type 10 Portland Cement unless otherwise noted. Normal weight concrete for various purposes shall be as follows:
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Foundations and Footings 25 (3600) 75 (3") 20 (3/4") - 50
Walls (Tilt-up) 35 (5000) 75 (3") 20 (3/4") F2 30
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b) Air contents to meet the requirements of the latest CSA 23.1 Concrete Exposure Classification.
c) Slumps listed are before the addition of super plasticizers. Tolerance in specified slump shall be ± 20 mm (3/4").
d) No calcium chloride is permitted in any form in the concrete mixes.
e) Submit mix designs to the Engineer and testing agency for review and approval prior to placement. Mix design submittals shall identify the elements for which they are intended.
2. Perform all works in accordance with CSA CAN3-A23.1-94, including the following:
a) Construction Tolerances
b) Fabrication and placement of reinforcing
c) Placement of concrete, including proper vibration and curing.
3. Take all precautions to ensure exposed concrete achieves finish desired by the Architect, including proper forming, mix design, site care and adequate vibration. Protect against damage during stripping and entire construction period.
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5. Blockouts, nailers, conduits, ducts, pipes, sleeves and other openings are subject to approval by the Engineer.
a) Openings and conduits are not permitted in wall zones, within 990 mm (39") of wall ends and intersections and columns.
b) Where permitted, space openings 2 diameters, or minimum 150 mm (6") apart.
c) Single openings larger than 300 mm (12") or a group of openings occupying together more than 300x300mm (1.0 sq. ft.) in any 1 sq. meter (10 sq. ft.) area shall not be permitted without the approval of engineer.
6. Expansion and/or construction sequence joints shall be installed in concrete structures greater than 45m (150 ft.) in length, details and locations shall be discussed with and approved by the Engineer in writing prior to construction.
7. Stripping of forms for structural elements is not allowed until concrete strength has reached 12 MPa for columns and walls and 17 MPa for slabs and beams. Strength of concrete shall be determined from field-cured cylinders.
8. All hot and cold weather concrete work shall be carried out in accordance with CAN/CSA A23.1-94
a) When temperature is expected to fall between 3C and -10C within 3 days of pouring concrete, the Contractor shall carry out one or more of the following procedures:
i) Make provisions to heat mix water or aggregate to maintain a minimum concrete temperature of 10C.
ii) Make provisions to heat the form work or soil surface. Concrete shall not be poured against any surface with a temperature less than 3C. (Calcium chloride or other de-icing salts are not permitted).
iii) Cover concrete with insulation blanket for the first 36 hours after pouring concrete. Do not pour when temperature is expected to fall below -10C within 3 days after pouring.
iv) Make provisions for a heated enclosure to maintain the temperature of all concrete surfaces above 10C for a minimum of 3 days after the pour.
v) Provide alternate mix designs for cold weather.
b) When the temperature is expected to rise above 25C the Contractor shall:
i) Make provisions to cool concrete to maintain a max. temperature of 32C.
ii) Make provisions to prevent concrete from drying.
9. Take measures to minimize shrinkage cracking including covering and dampening concrete in the curing stage.
10. Unless otherwise noted, provide 3.2mm wide x T/4 deep (1/8" x T/4) deep control joints in two directions in grade slabs centered on column lines, and maximum at 4500mm (15 ft.) o.c.
11. Unless otherwise noted, where expansion anchors are required, use Hilti KE 10 or approved equal; where chemical anchors are required, use Hilti HIT 100 epoxy, or approved equal.

**E. REINFORCING NOTES**

- 1. Reinforcing shall be non billet steel conforming to the following standards:
a) 10M and larger CSA C30.18-M92 400 MPa
b) Weldable reinforcement CSA C30.18-M92 (welding to CSA W186-M1990)
c) Slab reinforcement CSA C30.18-M92 (R1991)
d) Epoxy coated reinforcement ASTM A775M-91
Note: weldable reinforcement (including deformed bar anchors) must be clearly identified on each piece.
2. Reinforcement shall have concrete protection as follows, unless otherwise noted:
Fire Resistance Rating 3 hrs
75mm (3") 75mm (3")
50mm (2") 50mm (2")
30mm (1 1/2") 32mm (1 1/4")
40mm (1 1/2") 50mm (2")
50mm (2") 50mm (2")
25mm (1") 40mm (1 1/2")
40mm (1 1/2") 40mm (1 1/2")
40mm (1 1/2") 40mm (1 1/2")
3. All reinforcing bars shall be accurately placed, chaired and tied securely to prevent displacement and to maintain the specified cover. Install column reinforcement accurately with templates. Provide hooked dowels from bottom of footing to match and lap with verticals. Install masonry dowels accurately to align with centre of walls. Chairs shall be protected against rusting where required for appearance. Do not use steel reinforcement unless approved by the Engineer.
4. Provide epoxy coated rebars where noted on plan in accordance with CAN/CSA S413-94. Chair bars with plastic chairs and tie with plastic coated wire.
5. Minimum reinforcement shall be as follows unless otherwise noted:
a) Wall reinforcement:
150mm (6") wall - 10M @ 300 (12") VERT., 10M @ 300 (12") HOR.
200mm (8") wall - 15M @ 450 (18") VERT., 15M @ 450 (18") HOR.
250mm (10") wall - 15M @ 400 (16") VERT., 15M @ 400 (16") HOR.
300mm (12") wall - 10M @ 450 (18") VERT., EACH FACE STAG.
10M @ 300 (12") HOR., EACH FACE STAG.
b) Slab reinforcing (or temperature reinforcing):
100mm (4") 10M @ 500 (20") o.c. TWO WAYS
125mm (5") 10M @ 400 (16") o.c. TWO WAYS
150mm (6") or less 10M @ 300 (12") o.c. TWO WAYS
175mm (7") 15M @ 500 (20") o.c. TWO WAYS
190mm to 215mm (7 1/2" to 8 1/2") 15M @ 450 (18") o.c. TWO WAYS
225mm to 260mm (9" to 10") 15M @ 400 (16") o.c. TWO WAYS
275mm to 300mm (11" to 12") 15M @ 350 (14") o.c. TWO WAYS
c) Footing reinforcement:
2-15M continuous plus dowels of same size and spacing as wall vertical reinforcing.
d) Other locations: 15M @ 400 (16")
6. All bars shall be continuous, properly lapped at splices. At corners and intersections: horizontal reinforcement shall be bent and lapped.
7. a) Unless otherwise noted, lap lengths, including dowels, for 400 MPa (58 Ksi) reinforcement shall be as follows:
10M - 400mm (16") Epoxy coated bars: 10M - 500mm (20")
15M - 600mm (24") 15M - 750mm (30")
20M - 750mm (30") 20M - 900mm (35")
25M - 1170mm (46") 25M - 1530mm (60")
30M - 1400mm (55") 30M - 1840mm (72")
b) Lap splices not shown on drawings shall not be allowed unless approved in writing by the Engineer.
8. Unless otherwise noted, openings in walls shall have 2-15M extra each side extending 600mm (2'-0") past corners, plus 1-15M x 1200mm (4'-0") diagonal each corner.
9. Welding of reinforcing to embedded plates is permitted only with weldable deformed bar anchors with the following fillet weld sizes:
10 (3/8")---6mm (1/4")
16 (5/8")---10mm (3/8")
20 (3/4")---12mm (1/2")
10. Provide contingency reinforcing additional to all other requirements, with "add" and "delete" unit prices included in bid, include reinforcing required for non-structural concrete and masonry shown on the various drawings.

**F. TILT-UP PANELS**

- 1. Refer to concrete and reinforcing notes for concrete work in tilt-up panels.
2. Provide min. 2-15M bars at each side of openings, extend 600mm (2'-0") past edge. Provide 1-15M corner bars @ 200mm (4'-0") at all openings larger than 600mm (2'-0"). Chair all reinforcing with plastic tipped chairs. Do not use carry bars.
3. The lifting and bracing inserts securing to reinforcing steel.
4. Provide shop drawings 1:50 (1/4"=1'-0") for each panel type. Show all construction details including:
a) Concrete outline and opening locations.
b) Location and details of embedded items.
c) Reinforcing details.
d) Lifting and bracing requirements (including seal by a P.Eng. registered in B.C.)
5. Panel lift design shall conform to the following:
a) Use computer based methods to locate lifting inserts for min. flexural stresses. Conform to WCB R63 3.4.3.4.
b) Required concrete strength at time of lift:
Flexural 2.9 Mpa (420PSI)
Compressive 17 Mpa (2500 PSI)
c) Minimum safety factor on lift inserts 2.5:1.
d) Provide reinforcing steel to carry loads when working flexural stresses exceed 1.7MPa (250 PSI).
e) Indicate on drawings where flexural stress exceeds 2.9MPa (420 PSI).
6. Provide temporary bracing for panels until permanently attached to building as detailed. Design bracing for 0.7 kPa (14psf) wind load on gross panel area with a min. safety factor of 1.67.
7. Unless noted otherwise, chamfer all exposed (outside) corners, all joints shall be 20mm (3/4") wide.
8. Panels shall be viewed from interior of building as numbered on plans.
9. All embeds shall be secured to formwork with a minimum 2-4.8mm (3/16") nails.
10. Grout fill all recesses and pockets in panels, and gaps between floor slab and panels with a flowable consistency non-shrink grout with a minimum 7 day strength of 35 MPa (5000 psi). Follow the manufacturer's specification and instructions for mixing and placement of grout.
11. Steel trowel finish all inside surfaces of panels, unless noted otherwise.

**G. STRUCTURAL STEEL/METALS**

- 1. All structural steel work shall conform to CAN/CSA S16.1-M84.
2. All structural steel material shall conform to CSA G40.20/G40.21 -1992 with the following grades:
a) Rolled shapes and plates -300W
b) HSS shapes -250W
c) Bolts -ASTM A325
d) Anchor bolts and miscellaneous hardware -ASTM A307
3. All welding shall conform to CSA W59-1989 and to be performed by welders under CSA W47.1-92, fabricators to CWB approval. Welds shall be E-70xx. Nelson stud welding shall meet specifications of the manufacturer.
4. Unless otherwise noted, apply one shop coat of primer to all steel work, to CISC/CPMA 1-73A. Primer for exterior exposure shall be zinc-chromate type 1, conforming to CSSB1-9P-40d.
5. Where required, all hot dip galvanizing shall conform to CSA G164-M92.
6. Unless otherwise noted, design structural steel connections for minimum half the shear or compression capacity of the members connected (design by the Fabricator's Engineer). Bolted connections shall consist of minimum 2-19mm (3/4") A325 bolts with 9mm (3/8") connector plate.
7. Submit shop drawings (4 sets) for the above to the Engineer for review prior to fabrication. Shop drawings shall show all details, and indicate all applicable design loads and material specifications and shall be sealed by the Fabricator's B.C. Registered Engineer.
8. All fabrication and welding exposed to view to be appearance quality to the Architect's satisfaction.
9. Make provisions to minimize shrinkage cracking including covering and dampening concrete in the curing stage.
10. Unless otherwise noted, provide 3.2mm wide x T/4 deep (1/8" x T/4) deep control joints in two directions in grade slabs centered on column lines, and maximum at 4500mm (15 ft.) o.c.
11. Unless otherwise noted, where expansion anchors are required, use Hilti KE 10 or approved equal; where chemical anchors are required, use Hilti HIT 100 epoxy, or approved equal.

**H. OPEN WEB STEEL JOISTS**

- 1. Open web steel joists, bridging, and connections shall be designed, manufactured, and supplied according to CAN/CSA S16.1-M94 (S136 for cold rolled) for dimensions and loads shown on the drawings.
2. Design for deflections and provide camber to CSA S16 unless otherwise noted.
3. Where bottom chord extensions are required, design for minimum 13.0 kN (3000 lb) factored axial tension or compression.
4. Point OWSJ and bridging with one coat of primer to CISC/CPMA 1-73A.
5. Unless otherwise noted, bridging locations shall be coordinated with all other Architectural and Mechanical requirements.
6. Submit shop drawings (4 sets) for the above to the Engineer for review prior to fabrication. Shop drawings shall show all details, and indicate all applicable design loads and material specifications and shall be sealed by a Professional Engineer registered in the Province of B.C. The same P.Eng. shall submit written letter stating that fabrication of the open web steel joists have met all structural requirements.
7. Following fabrication and erection, the sub-contractor shall retain a P.Eng. registered in B.C. to review installation of the open web steel joist structure and submit a sealed letter stating that installation of some meets all structural requirements.

**J. STEEL DECKING**

- 1. Steel roof decking and floor decking shall be as per plan. Roof decking shall conform to CSSB 10M-86; composite floor decking shall conform to CSSB 12M-84. Interior decking shall have a minimum zinc coating of 275 to 350 g/m<sup>2</sup> to CSSB 101M-84. Exterior decking shall have a minimum zinc coating of 275 to the same standard. The following decking profiles are acceptable:
Roof - Mercury RD 60/D-Rib, and RD900 or V-crest RD308 and RD36.
Floor - Mercury QL B/D-Rib, and QL500 or V-crest HB308 and HB38.
2. Unless otherwise noted, as a minimum, weld deck to supports and perimeter elements with 20mm (3/4") puddle welds @900mm (12"), button punch lips @ 300mm (12") o.c. maximum. Place sheets in minimum 3 spon lengths.
3. Point welds and repair damaged coating with Galvalux coating.
4. Unless otherwise noted, reinforce all roof deck openings greater than 150mm (6") square and less than 400mm (16") square with L36x36x5 (L1 1/2"x1 1/2"x1/8") extended and puddle welded to minimum two flutes on each side of opening. Frame larger openings with L75x75x6 (L3"x3 1/4") extending to main structural members or as shown on the drawings.
b) Unless otherwise noted, provide L100x100x6 (L4"x4"x1/4") frame under all roof top mechanical units. Contractor shall be responsible to coordinate the number and locations of mechanical units with the mechanical consultant.
5. Unless otherwise noted, reinforce all floor deck openings greater than 150mm (6") square and less than 400mm (16") square with 3-10M, 4-sides of opening, extend bars 200mm (8") min. past edge of opening, plus 1-10M x 600mm (24") at each corner. Frame larger openings with L100x100x6 (L4"x4"x1/4") extending to main structural members or as shown on drawing.
6. Shop drawings for decking (4 sets) shall be submitted for review prior to fabrication and are to be sealed by a Professional Engineer registered in B.C. Shop drawings shall show all details and indicate all applicable design loads and material specifications.

**K. SECONDARY COMPONENTS AND THEIR ATTACHMENTS**

- 1. Secondary components include but are not limited to the following:
a) Architectural components such as guard and hand rails, flag posts, canopies, ceilings, etc.
b) Site work elements exterior to the base building such as landscaping components, lamp standards, pools, signs, and civil work.
c) Cladding, window moldings, glazing and store fronts.
d) Skylights and glass canopies.
e) Attachments and bracing for electrical and mechanical components.
f) Glass block including attachments.
g) Elevators.
h) Architectural precast and precast claddings.
i) Window washing equipment and attachments.
j) Interior and exterior light gauge steel stud walls.
k) Roofing material.
l) Architectural brick veneer.
m) Parking area membrane.
n) Storage racks.
2. Design and detailing of the above items and their attachments are not the responsibility of the Engineer. They shall be designed by specialty structural engineers, registered in the province of British Columbia retained by the Contractor, who will seal all related shop drawings, review the components in the field and provide all required sealed letters to the authorities having jurisdiction.
3. Secondary or non-structural components and their attachments shall be designed in accordance with Part 4 of the same Building Code as in GENERAL section, line 8 of this drawing.
4. Sealed shop drawings of the secondary or non-structural components which may affect the primary structural system shall be submitted to the Engineer only for the review of their effect on the primary structural system.
5. Subcontractor of these components is responsible for protection of aluminum-steel connections against galvanic corrosion.
6. In addition to construction tolerance, non-structural components shall be detailed for the following building movement and deflection:
a) Vertical deflections of beams, slabs and decking:
Differential deflections of edge beams and edges of slabs: ± 25mm (1")
± 16mm (5/8")
b) Horizontal drift during wind and earthquake between floors:
Drift without damage to non-structural components: ± 13mm (1/2")
Drift without collapse of non-structural components: ± 50mm (2")
c) Movement of expansion joints:
Perpendicular: ± 50mm (2")
Parallel: ± 25mm (1")
Vertical: ± 25mm (1")

**ABBREVIATIONS**

Table with 2 columns: Abbreviation and Meaning. Includes terms like ALLT, BOT, BULL, etc. and their corresponding meanings such as ALTERNATE, BOTTOM LOWER LAYER, etc.

**STRUCTURAL DRAWING LIST**

Table with 2 columns: Drawing No. and Drawing Title. Lists drawings S01 through S12 with titles like GENERAL NOTES, FOUNDATION/GROUND FLOOR PLAN, 2nd FLOOR FRAMING PLAN, etc.



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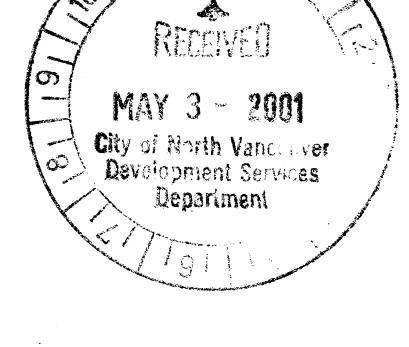
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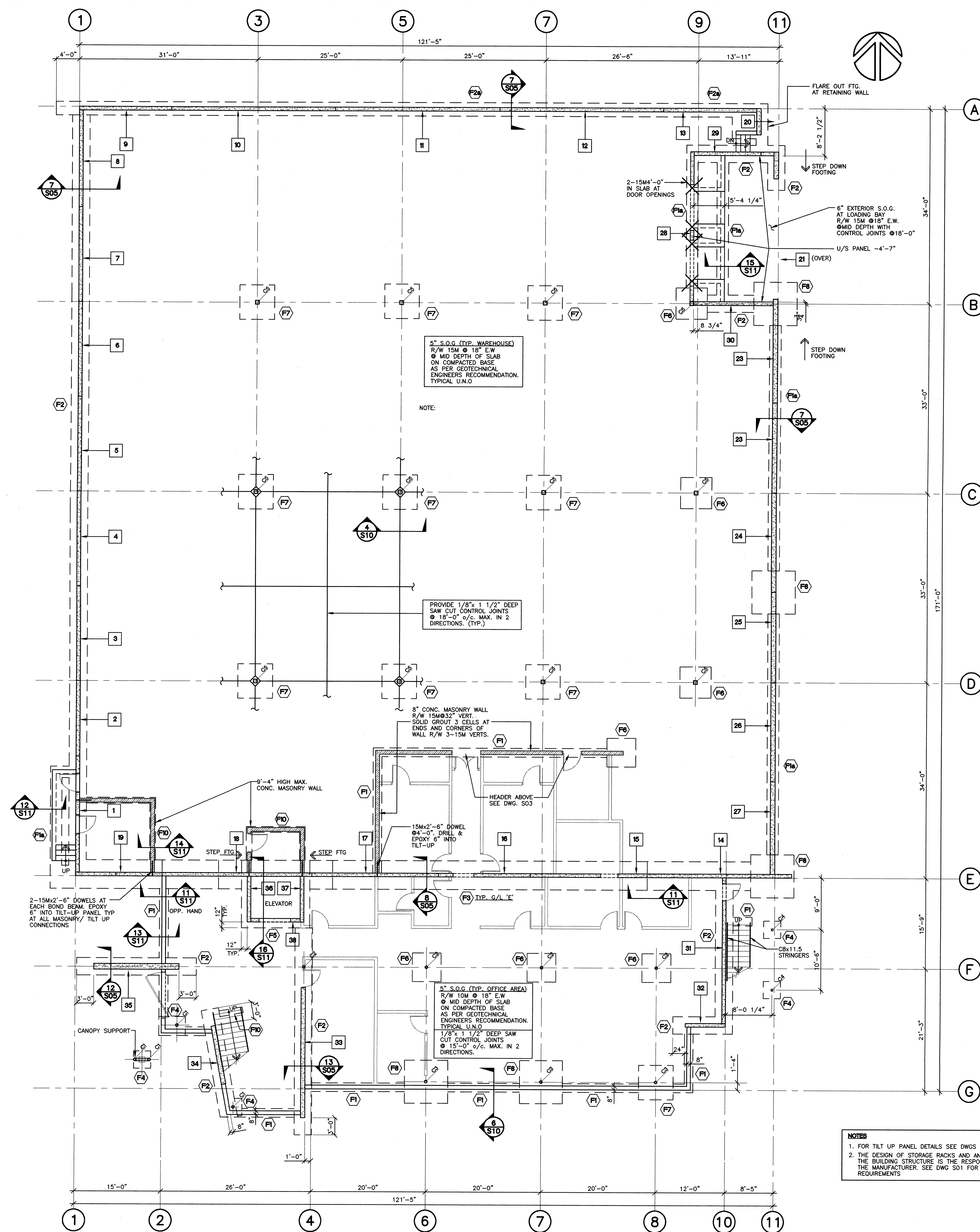
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S01

Table with 2 columns: SCALE and PROJECT. SCALE: N.A. PROJECT: C911. Table with 2 columns: DRAWN and DATE. DRAWN: KJB DATE: JAN.2001





**FOUNDATION + GROUND FLOOR PLAN**  
1/8"=1'-0"

**NOTES**  
1. FOR TILT UP PANEL DETAILS SEE DWGS S05 TO S09  
2. THE DESIGN OF STORAGE RACKS AND ANCHORAGE TO THE BUILDING STRUCTURE IS THE RESPONSIBILITY OF THE MANUFACTURER. SEE DWG S01 FOR DESIGN REQUIREMENTS

**LEGEND**

	TILT UP CONCRETE PANEL
	CONCRETE MASONRY WALL
	NON LOADBEARING STUD PARTITIONS AS PER REQUIREMENTS OF SECTION K, DRAWING S01
	STEEL COLUMN & BEAM
	RECYCLED GLULAM BEAM. SEE DRAWINGS S06 TO S09
	TILT UP PANEL TYPE
	STEEL CONNECTION FORCES

**FOOTING SCHEDULE**

FOOTING DIMENSION	REINFORCEMENT
F1 18"x8" STRIP FTG.	2-15M BOT. CONT.
F2 2'-0"x8" STRIP FTG.	2-15M TOP LONGIT. C15M @18" TOP TRANSV.
F3 3'-0"x16" STRIP FTG.	5-20M BOT. LONGIT. 15M @14" BOT. TRANSV.
F4 2'-4"x18" STRIP FTG.	5-20M BOT. CONT.
F5 5'-0"x16" STRIP FTG.	8-20M BOT. LONGIT. 15M @14" BOT. TRANSV.
F6 3'-0"x3'-0"x12"	4-15M BOT. EACHWAY
F7 12" PAD	15M @ 12" EACHWAY TOP & BOT.
F8 5'-0"x5'-0"x14"	5-20M BOT. EACHWAY
F9 6'-0"x6'-0"x14"	6-20M BOT. EACHWAY
F10 7'-0"x7'-0"x16"	8-20M BOT. EACHWAY
F11 7'-0"x14'-0"x16"	8-20M BOT. LONGIT. 16-20M BOT. TRANSV.
F12 12" WIDE x12" DEEP SLAB THICKENING	2-15M BOT. CONT.

ALL FOOTINGS TO BEAR ON COMPACTED FILL WITH A MIN. ALLOWABLE BEARING CAPACITY OF 2000 psf (95 kPa) GEOTECHNICAL ENGINEER TO CONFIRM BEARING CAPACITY ON SITE PRIOR TO POURING CONCRETE.

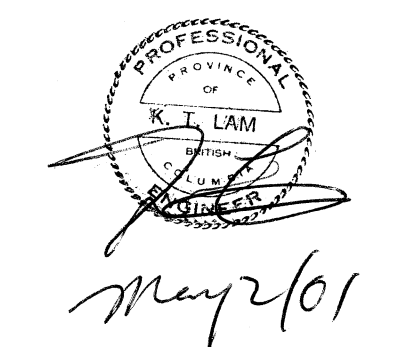
**COLUMN SCHEDULE**

TYPE	COLUMN SIZE	CAP PLATE	BASE PLATE
C1	HSS 4" x 3/16"	HOLD	BP1
C2	HSS 5 1/2" x 3/16"	BP6	BP1
C3	HSS 5 1/2" x 3/8"	BP6	BP1
C4	HSS 4" x 4" x 1/4"	BP4 or BP5	BP1
C5	HSS 8" x 8" x 1/4"	BP3	BP2

**BASE PLATE + (CAP PLATE) SCHEDULE**

TYPE	SIZE
BP1	10"x10"x3/4" PLATE C/W 4-3/4"x12" LONG ANCHOR BOLTS
BP2	13"x13"x3/4" PLATE C/W 4-3/4"x12" LONG ANCHOR BOLTS
BP3	9"x13"x3/4" PLATE C/W 4-3/4" BOLTS
BP4	5"x10"x5/8" PLATE C/W 2-3/4" BOLTS
BP5	5"x7"x5/8" PLATE C/W 4-3/4" BOLTS
BP6	8"x11"x5/8" PLATE C/W 4-3/4" BOLTS

NO	DATE	REVISIONS
-	APR.30/01	ISSUED FOR TENDER
-	FEB.21/01	ISSUED FOR BUILDING PERMIT

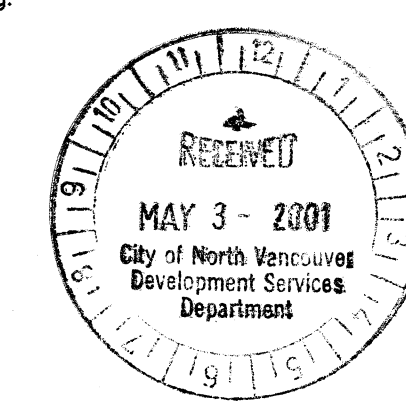


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**FOUNDATION & GROUND FLOOR PLAN**

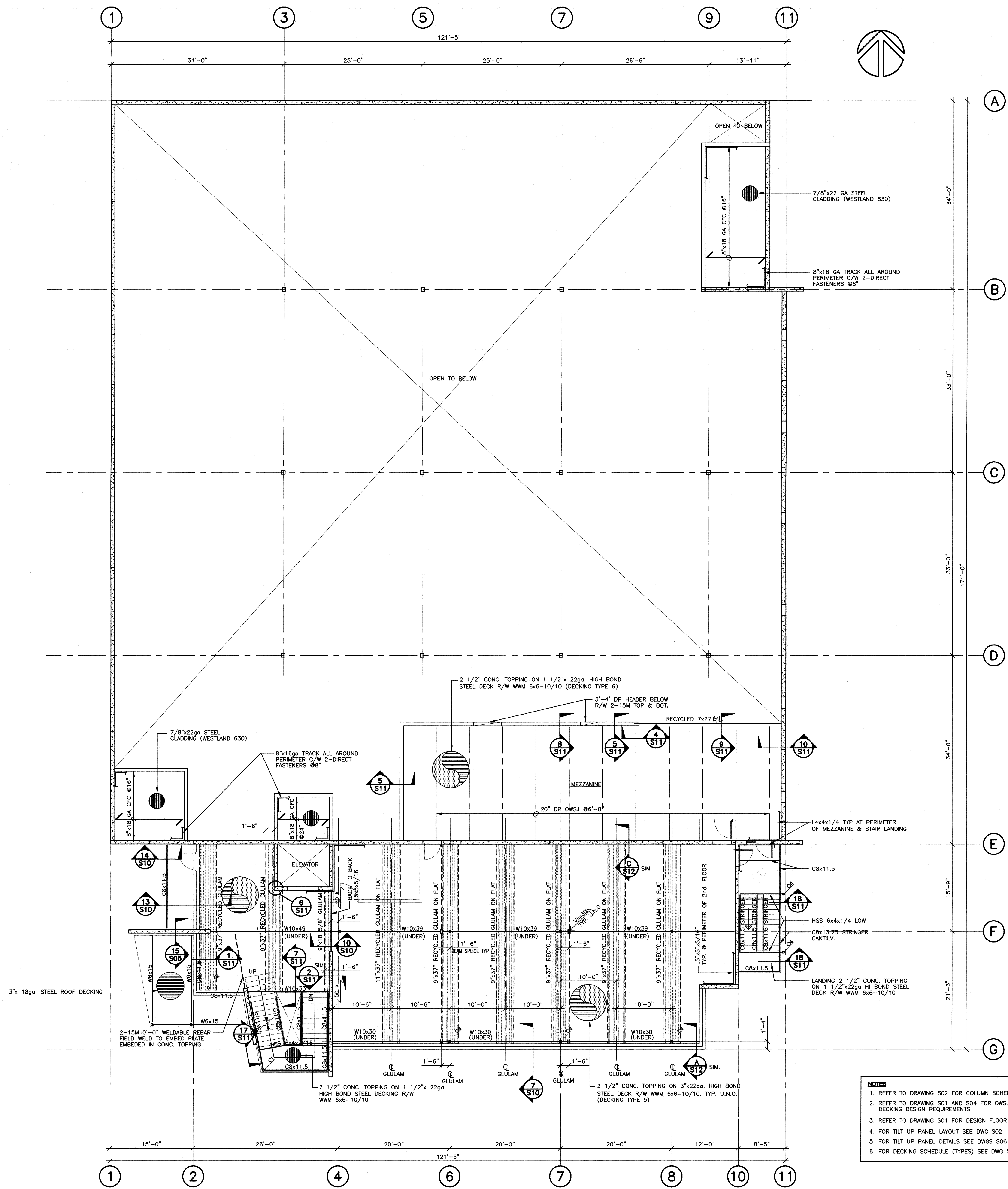
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**S02**

SCALE	PROJECT
1/8"=1'-0"	C911
DRAWN	DATE
KJB	JAN.2001



- NOTES**
1. REFER TO DRAWING S02 FOR COLUMN SCHEDULE
  2. REFER TO DRAWING S01 AND S04 FOR OWSJ AND DECKING DESIGN REQUIREMENTS
  3. REFER TO DRAWING S01 FOR DESIGN FLOOR LOADS
  4. FOR TILT UP PANEL LAYOUT SEE DWG S02
  5. FOR TILT UP PANEL DETAILS SEE DWGS S06 TO S09
  6. FOR DECKING SCHEDULE (TYPES) SEE DWG S04.

LEGEND	
	TILT UP CONCRETE PANEL
	CONCRETE MASONRY WALL
	NON LOADBEARING STUD PARTITIONS AS PER REQUIREMENTS OF SECTION K, DRAWING S01
	STEEL COLUMN & BEAM
	RECYCLED GLULAM BEAM. SEE DRAWINGS S06 TO S09
	TILT UP PANEL TYPE
	STEEL CONNECTION FORCES

**SECOND FLOOR FRAMING PLAN**  
1/8"=1'-0"

NO	DATE	REVISIONS
-	APR.30/01	ISSUED FOR TENDER
-	FEB.21/01	ISSUED FOR BUILDING PERMIT

SEAL

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**2nd FLOOR FRAMING PLAN**

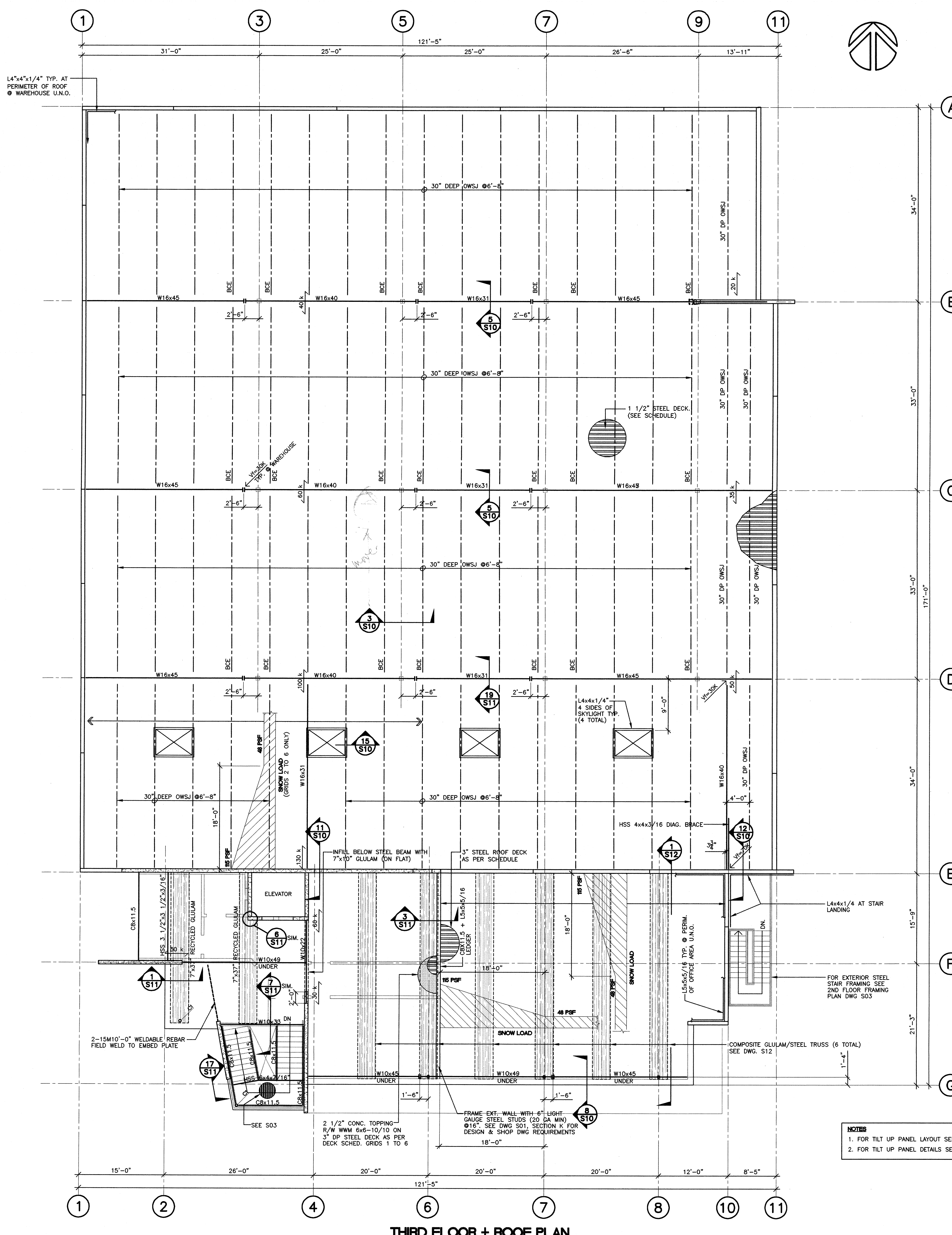
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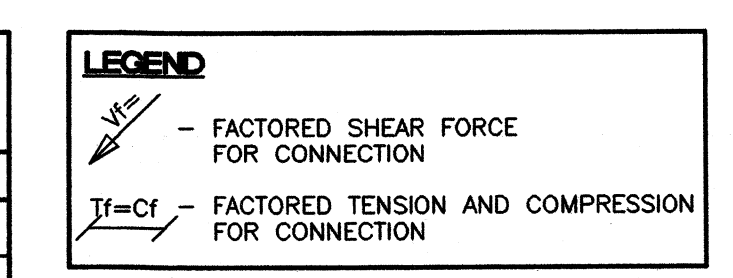


**S03**

SCALE	PROJECT
1/8"=1'-0"	C911
DRAWN	DATE
KJB	JAN.2001

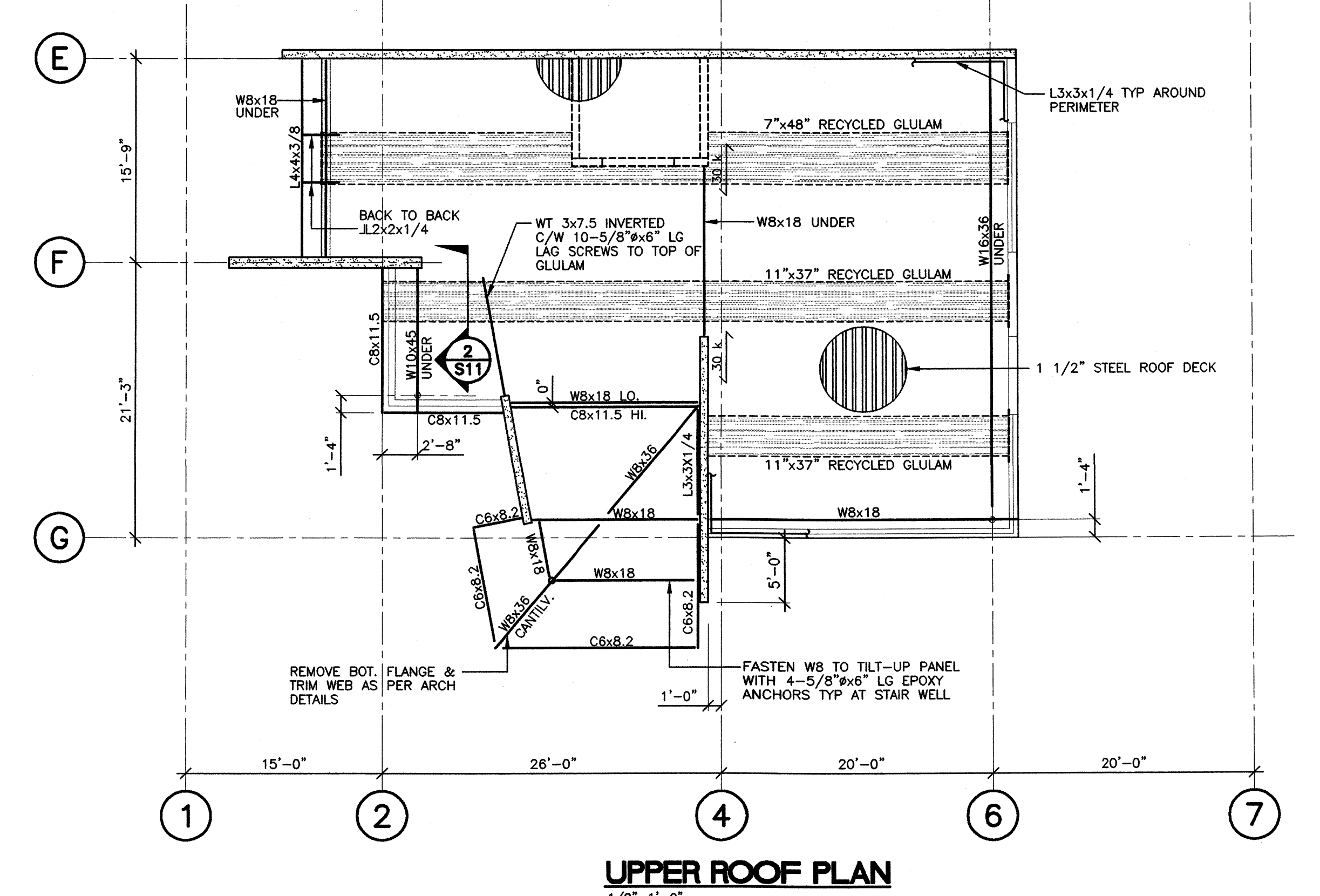
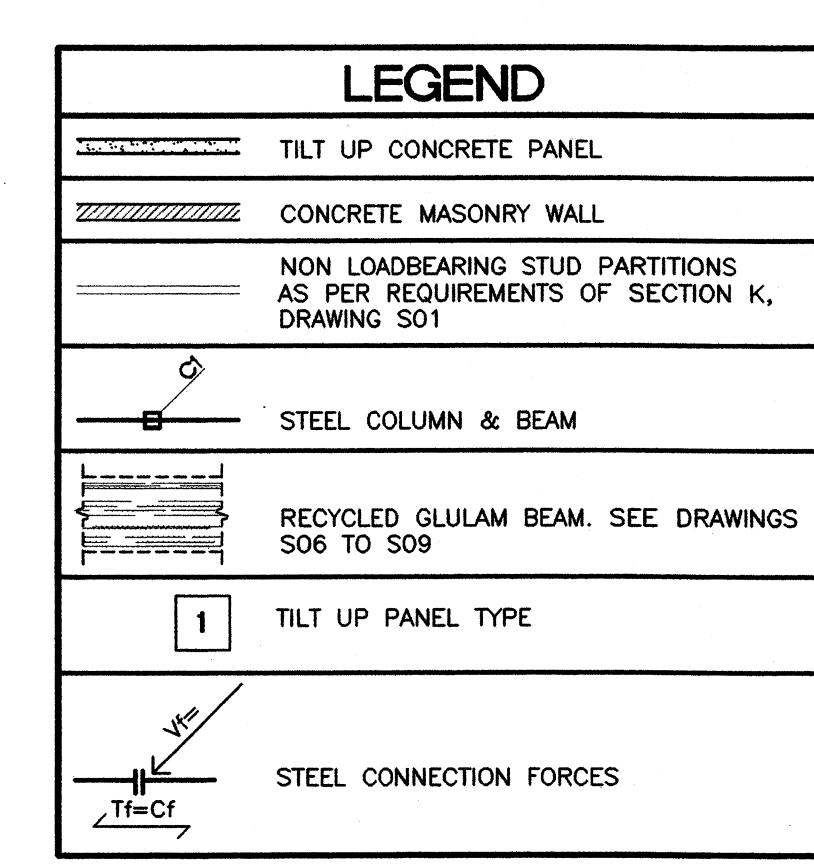
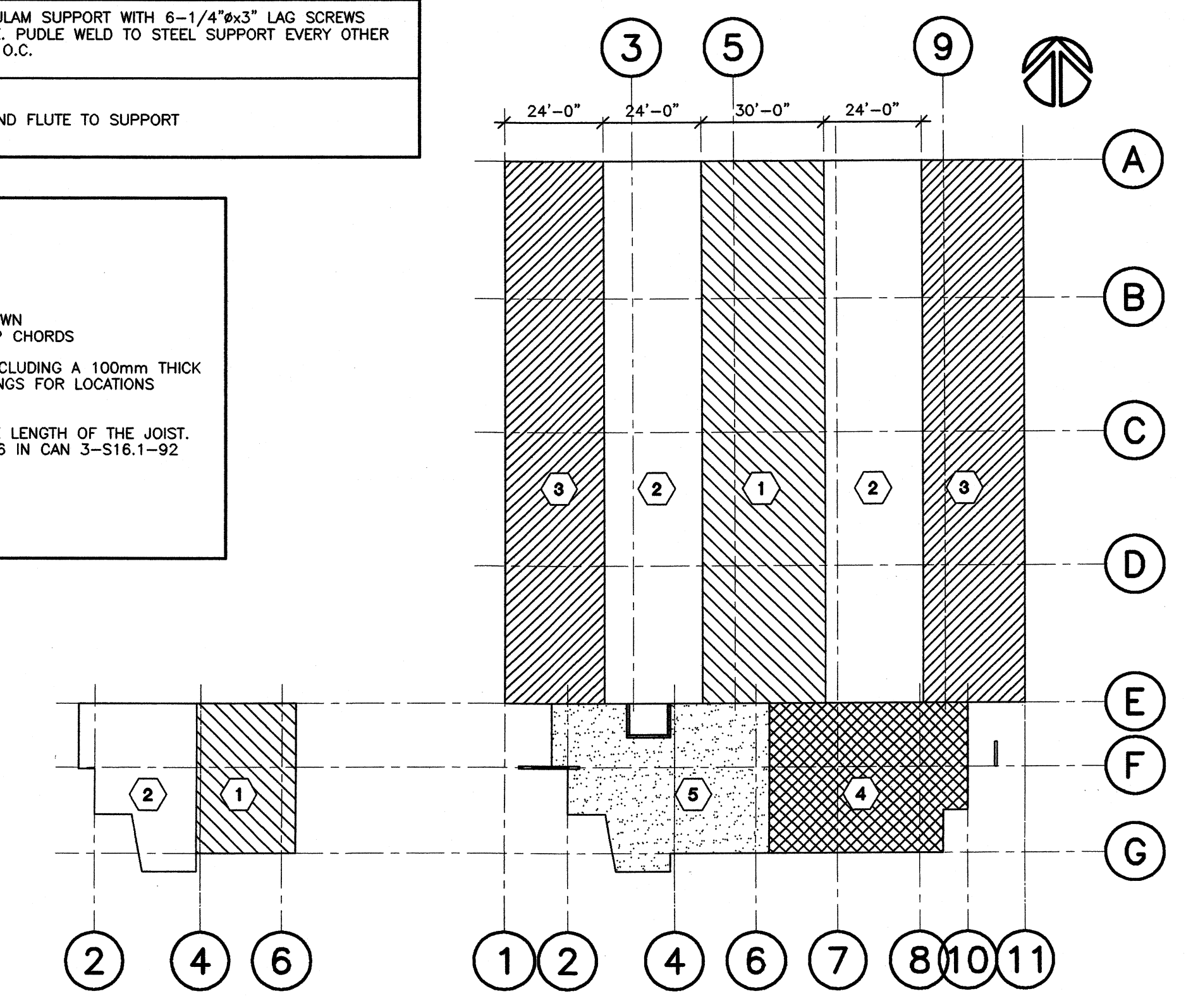


DECKING SCHEDULE		
(SEE ALSO NOTES ON DWG. S01)		
TYPE	STEEL DECKING	CONNECTION
1	1 1/2" x 22GA	WELD ALL FLUTES AT SUPPORT, SIDE LAP BUTT PUNCH Ø 12"
2	1 1/2" x 20GA	WELD ALL FLUTES AT SUPPORT, SIDE LAP BUTT PUNCH Ø 6"
3	1 1/2" x 18GA	WELD ALL FLUTES AT SUPPORT, SIDE LAP BUTT PUNCH Ø 6"
4	3" x 18GA	FASTEN TO GLULAM SUPPORT WITH 6-1/4" x 3" LAG SCREWS AT EACH FLUTE. PUOLE WELD TO STEEL SUPPORT EVERY OTHER FLUTE OR 12" O.C. 1" SIDE LAP SEAM WELD Ø 6"
5	COMPOSITE DECKING 2 1/2" CONC TOPPING ON 3" x 22 GA HB DECKING TOTAL THICKNESS 5 1/2"	FASTEN TO GLULAM SUPPORT WITH 6-1/4" x 3" LAG SCREWS AT EACH FLUTE. PUOLE WELD TO STEEL SUPPORT EVERY OTHER FLUTE OR 12" O.C.
6	COMPOSITE DECKING 2 1/2" CONC TOPPING ON 1 1/2" x 22 GA HB DECKING TOTAL THICKNESS 4"	WELD EVERY 2ND FLUTE TO SUPPORT



**NOTES TO OWSJ**

- SEE ADDITIONAL NOTES ON DRAWING S01
- DESIGN LOADS (SPECIFIED):
  - ROOF SNOW: 48 psf PLUS BUILD UP AS SHOWN
  - FACTORED TENSION OR COMPRESSION ON TOP CHORDS AS PER PLANS
  - ADDITIONAL LOAD FROM MECHANICAL UNITS INCLUDING A 100mm THICK HOUSEKEEPING PAD, SEE MECHANICAL DRAWINGS FOR LOCATIONS AND WEIGHTS
  - NET UPSET OF 6.50 kPa (UNFACTORED)
  - POINT LOAD OF 45 kN ANYWHERE ALONG THE LENGTH OF THE JOIST
  - ADDITIONAL POINT LOADS AS PER CLAUSE 16.6 IN CAN S-16.1-92
  - SEE DRAWING S03 FOR FLOOR LIVE LOADS
- DEFLECTION CRITERIA:
  - ROOF AREAS: L/300



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SEAL

*May 2/01*

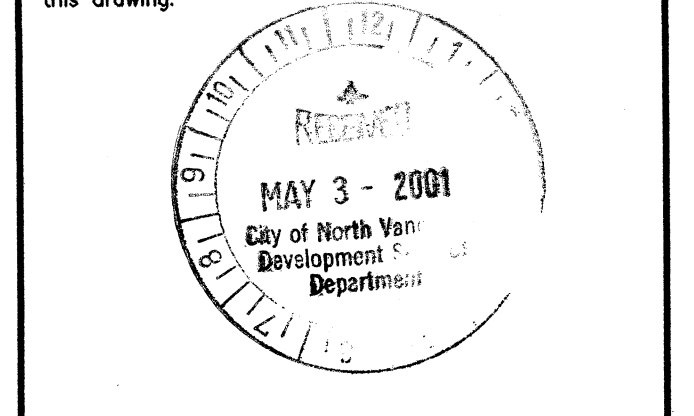
**Maxem Holdings Inc.**  
Office/ Warehouse  
758 Harbourside Drive  
North Vancouver, B.C.

**3rd FLOOR FRAMING & ROOF PLANS**

**CONSULTANT**  
**Fast+Epp**  
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F 604 731 7620  
mail@fastepp.com

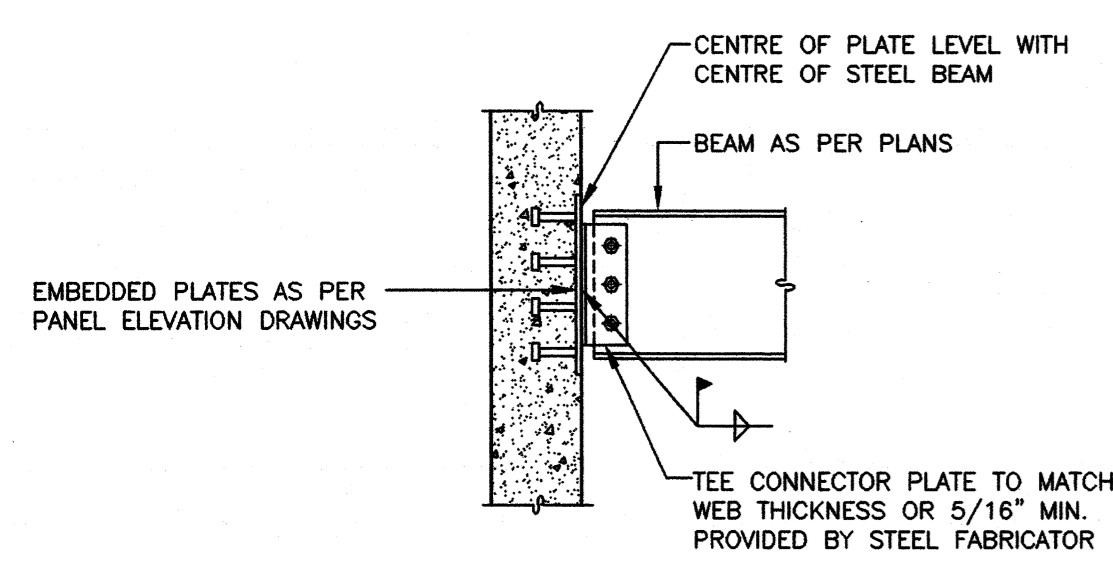
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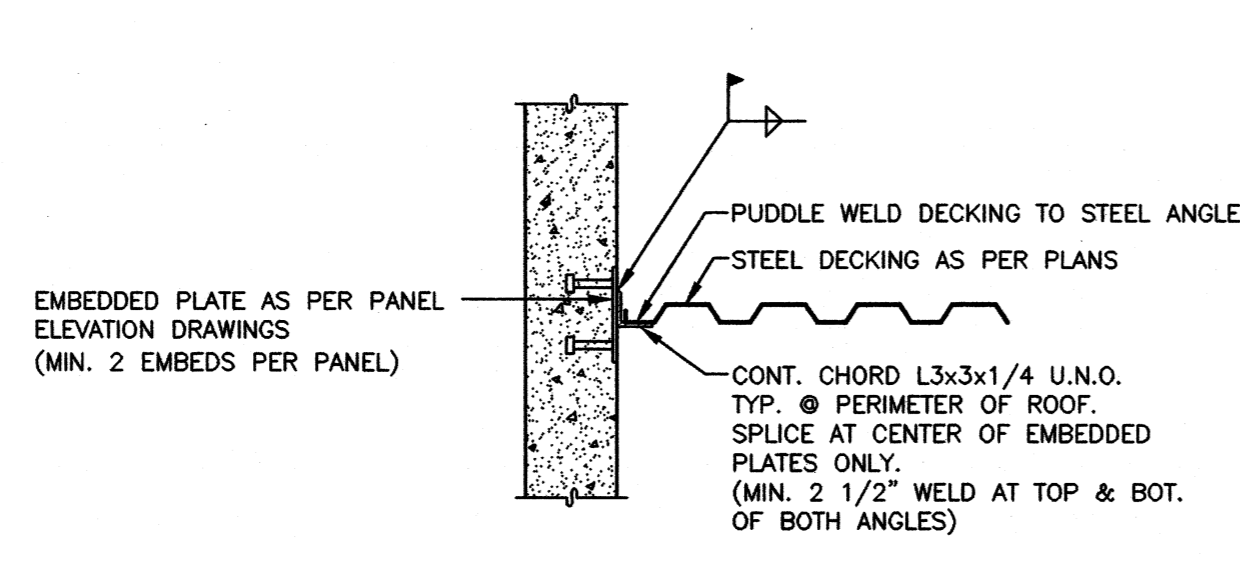


**S04**

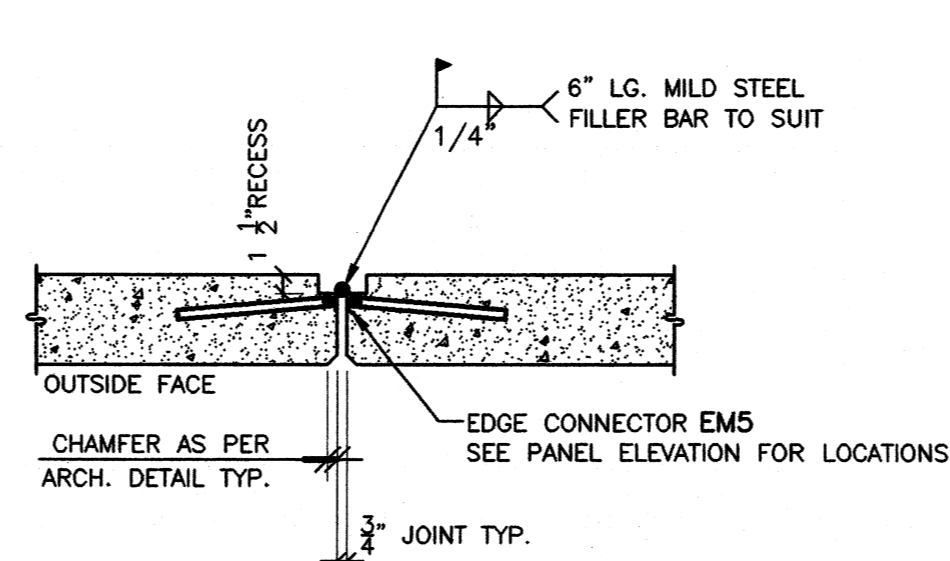
SCALE: 1/8"=1'-0" PROJECT: C911  
DRAWN: KJB DATE: JAN.2001



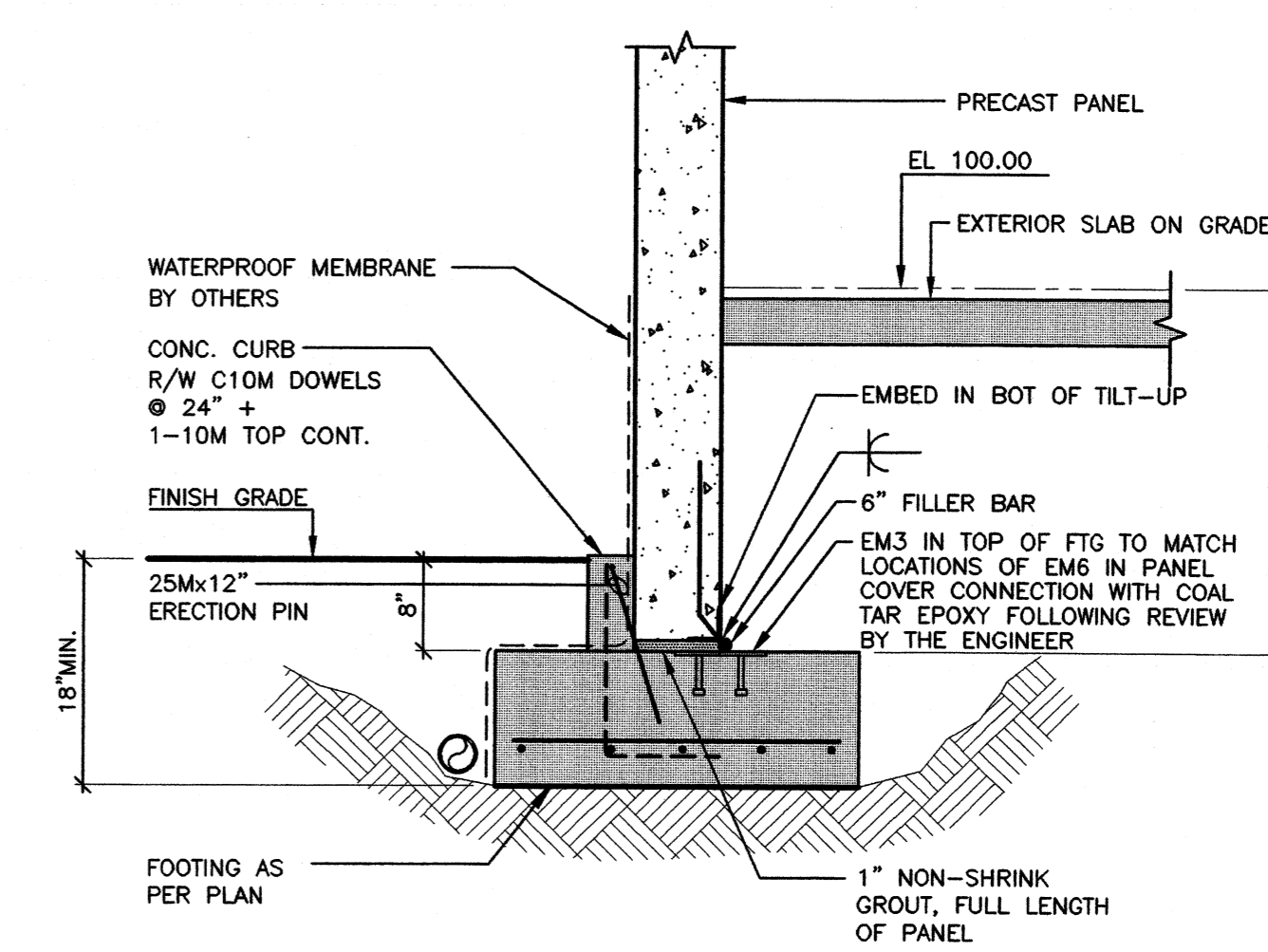
**1 TYPICAL STEEL BEAM TO TILT-UP PANEL CONNECTION**  
3/4"=1'-0"



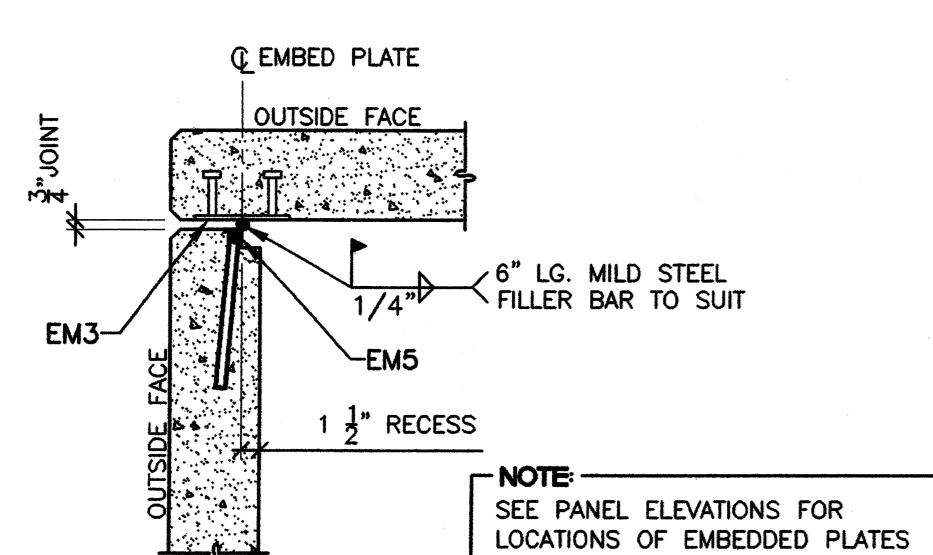
**2 TYPICAL STEEL DECK TO TILT-UP PANEL CONNECTION AT ROOF**  
3/4"=1'-0"



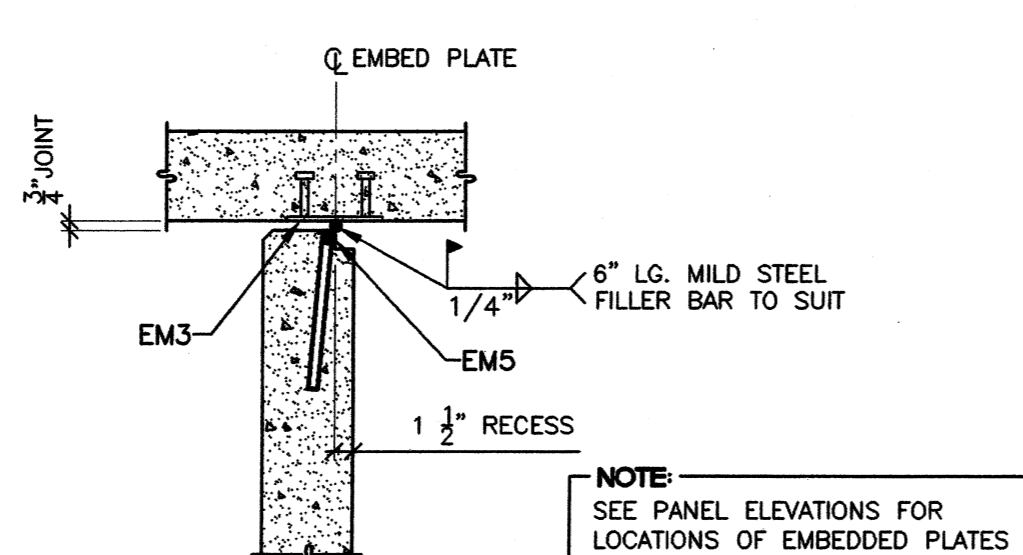
**3 TYPICAL PANEL TO PANEL CONNECTION (PLAN)**  
3/4"=1'-0"



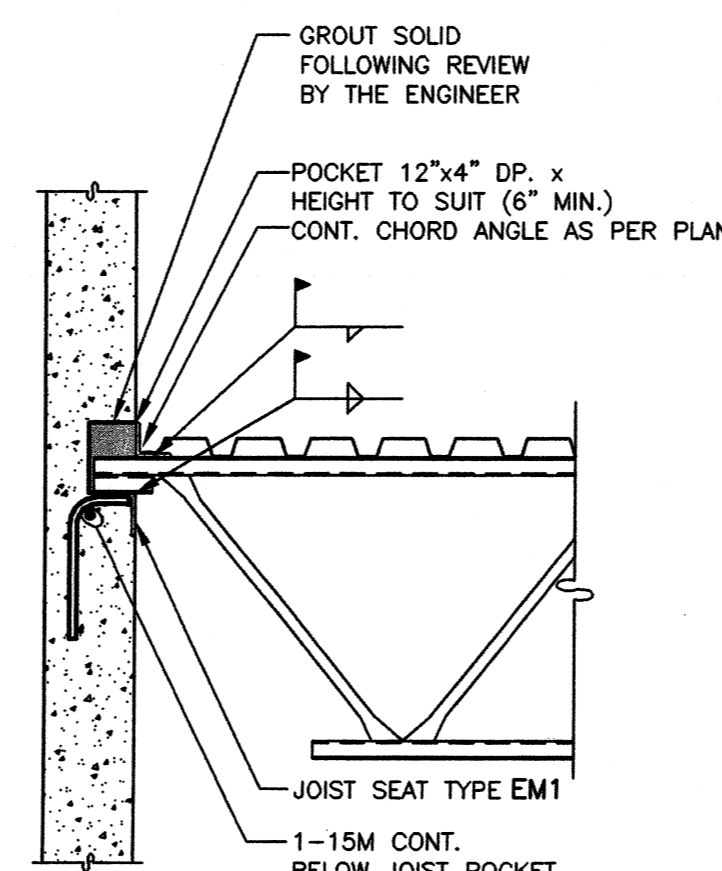
**12 SECTION S02**  
3/4"=1'-0"



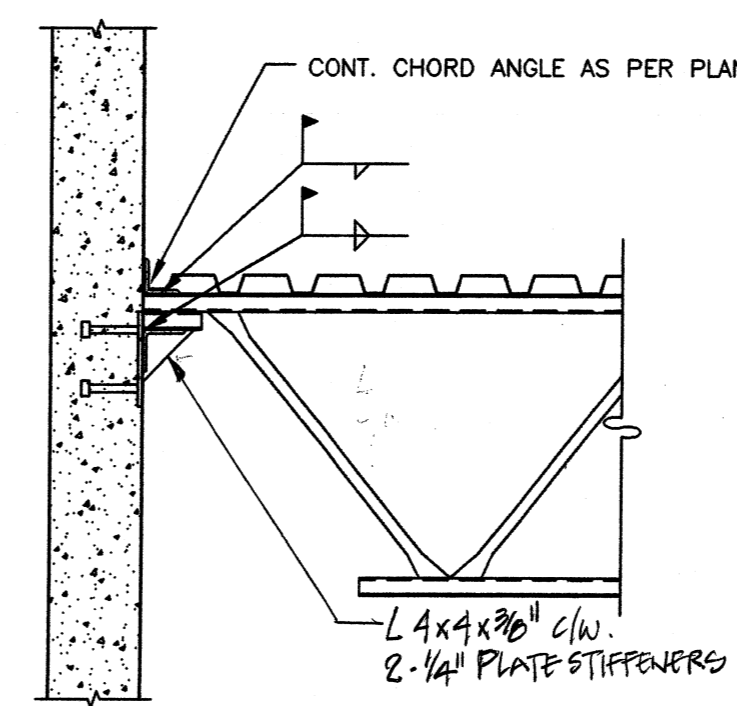
**4A TYPICAL TILT-UP PANEL CONNECTION AT OUTSIDE CORNER (PLAN)**  
3/4"=1'-0"



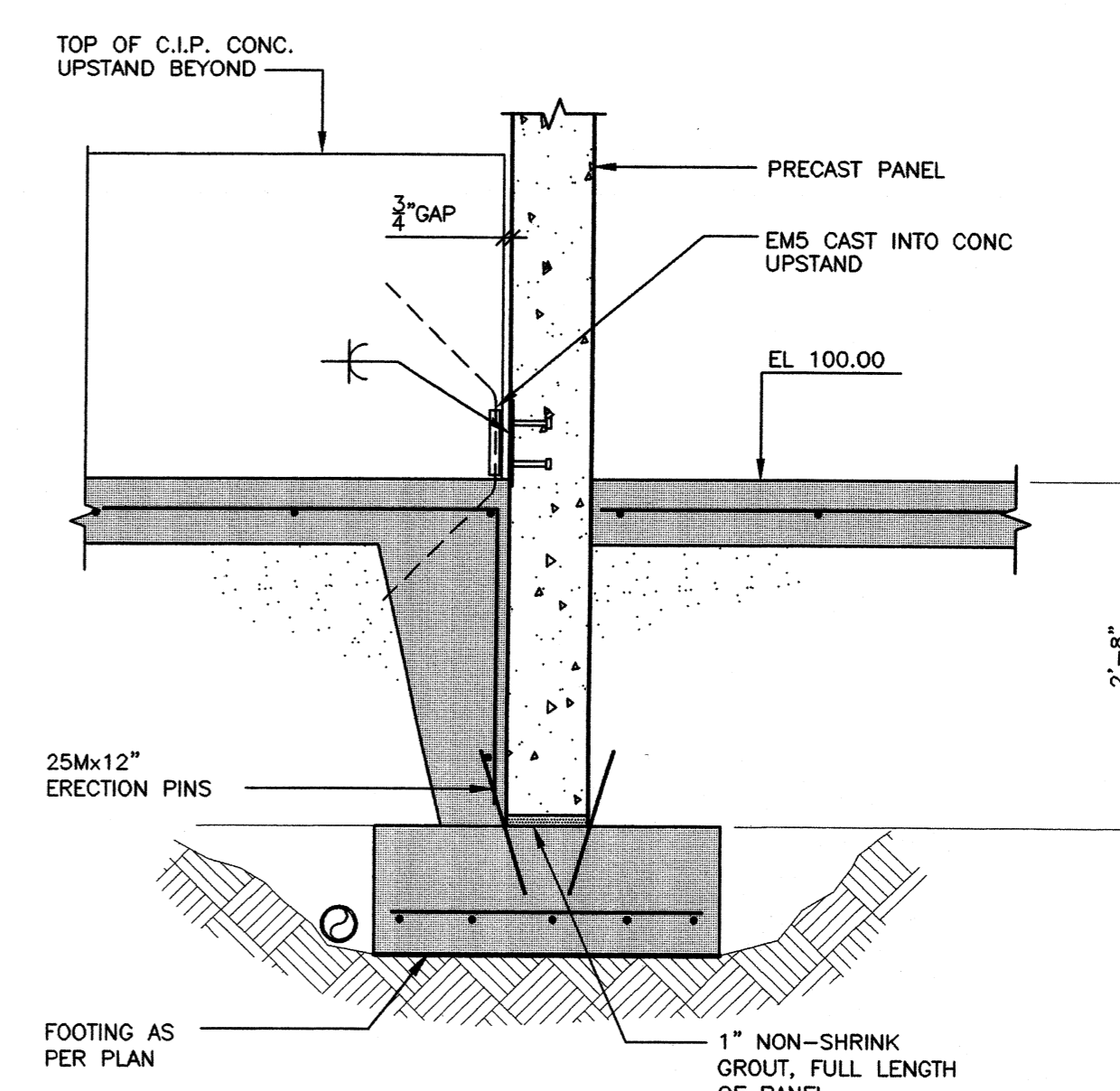
**4B TYPICAL TILT-UP PANEL CONNECTION AT INSIDE CORNER (PLAN)**  
3/4"=1'-0"



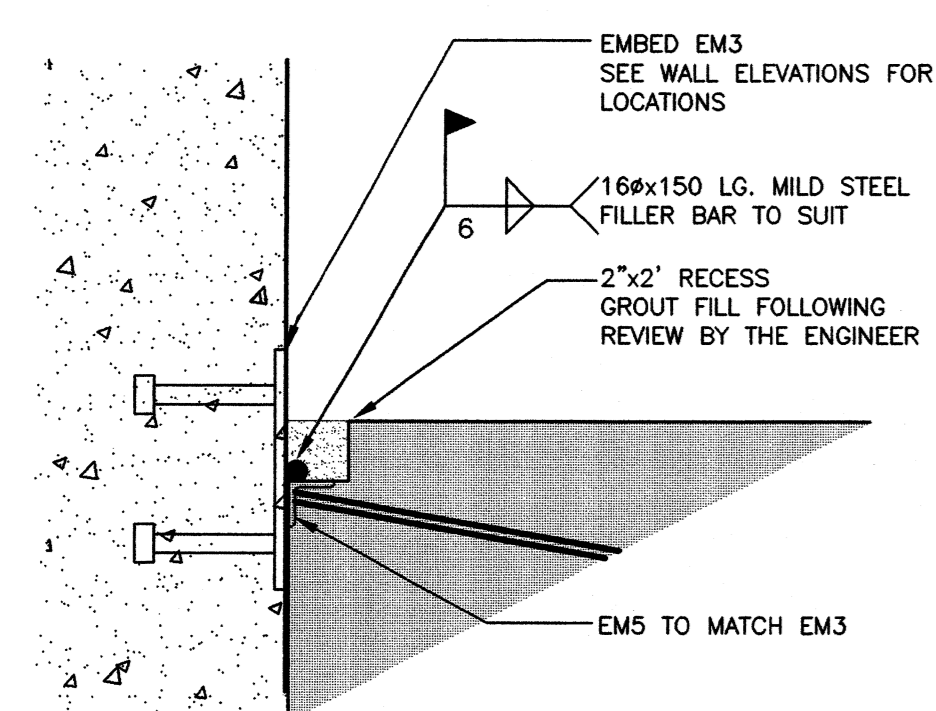
**5 TYPICAL JOIST POCKET**  
3/4"=1'-0"



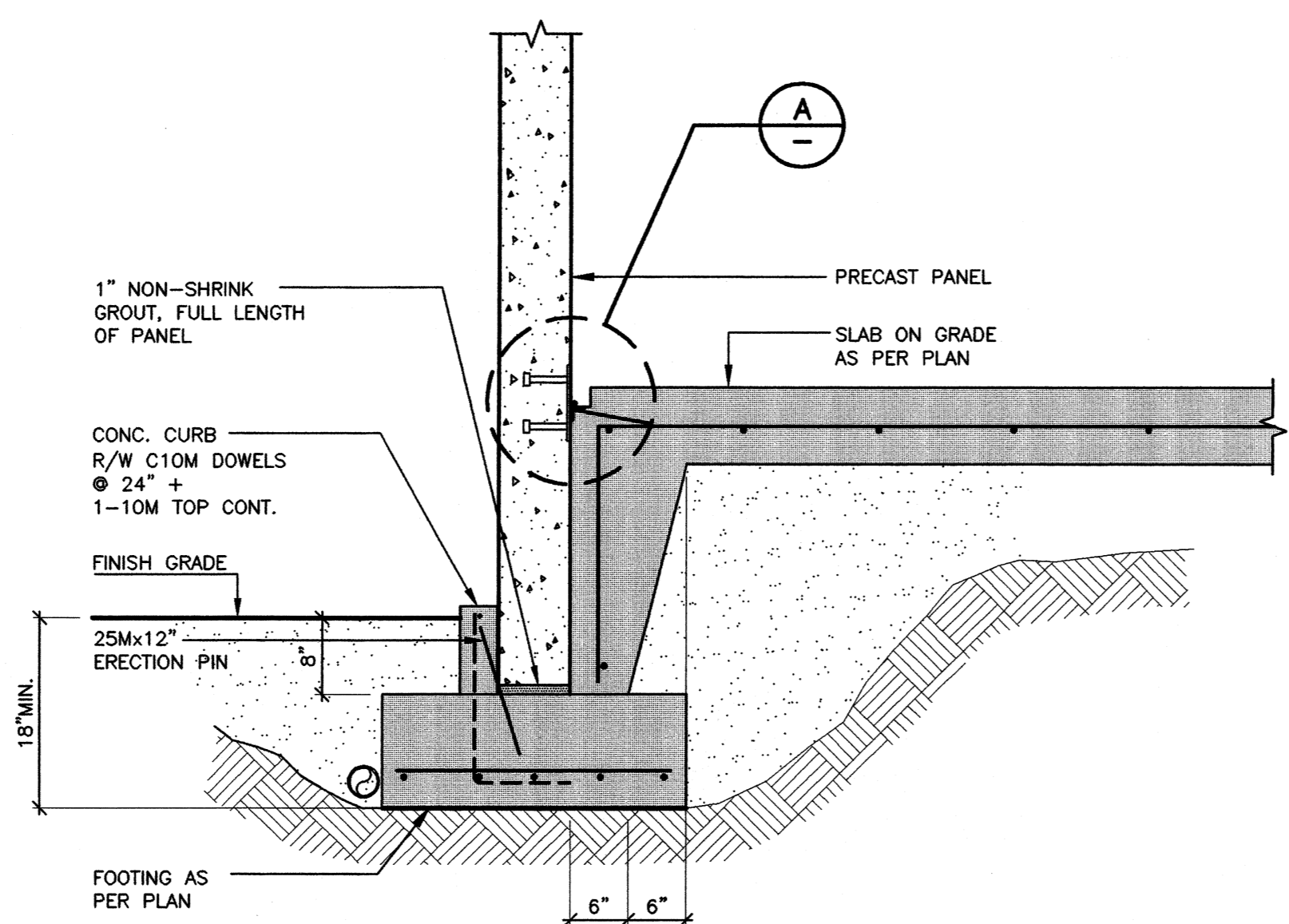
**5A TYPICAL JOIST FACE MOUNT**  
3/4"=1'-0"



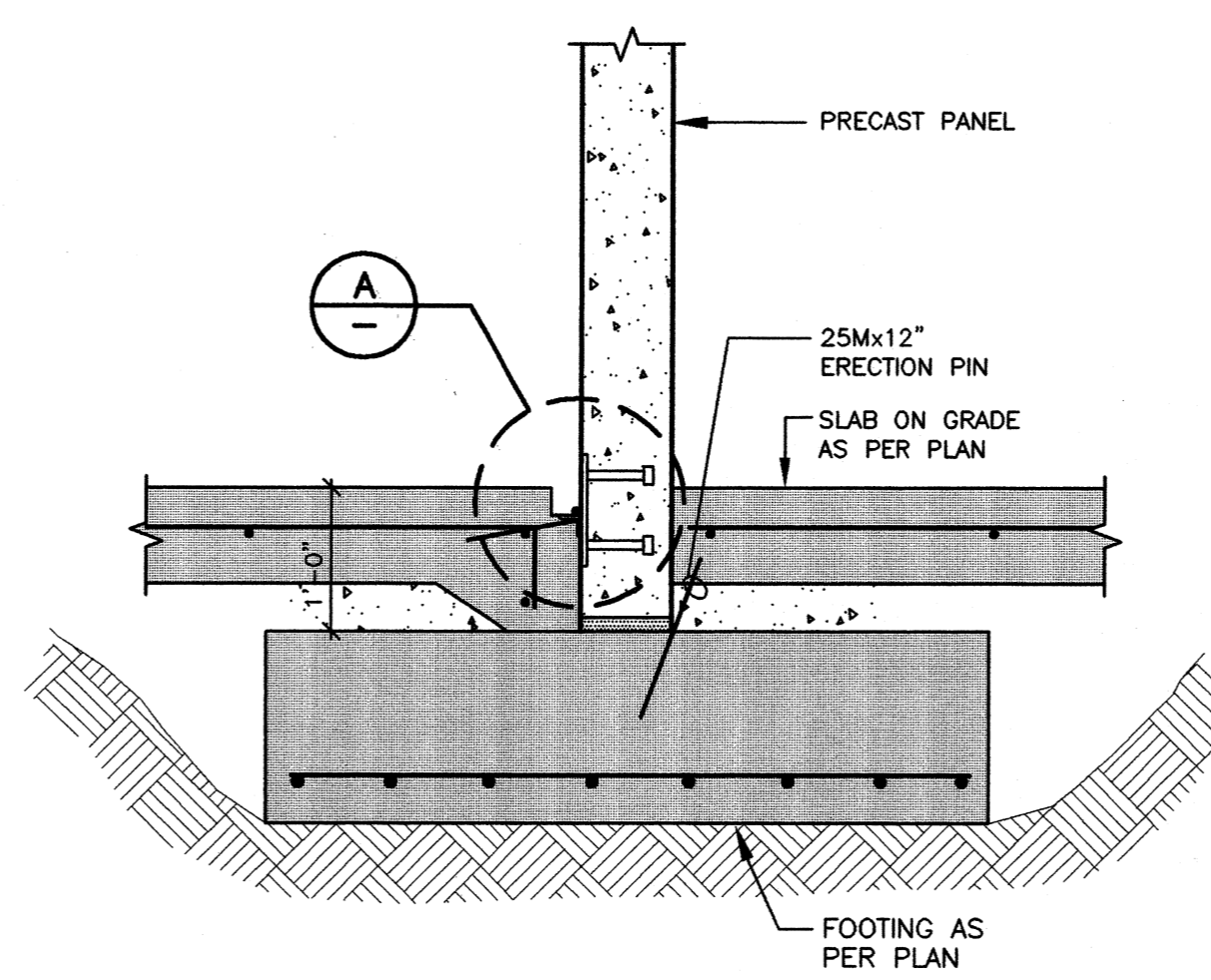
**13 SECTION S02**  
3/4"=1'-0"



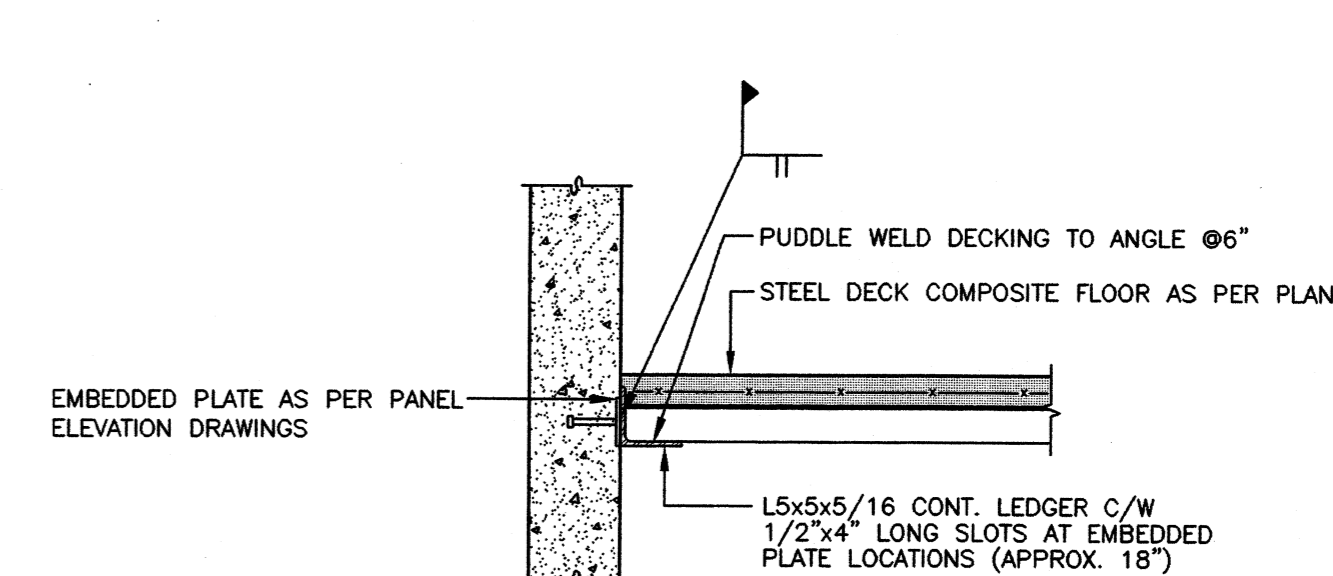
**A DETAIL**  
1/2"=1'-0"



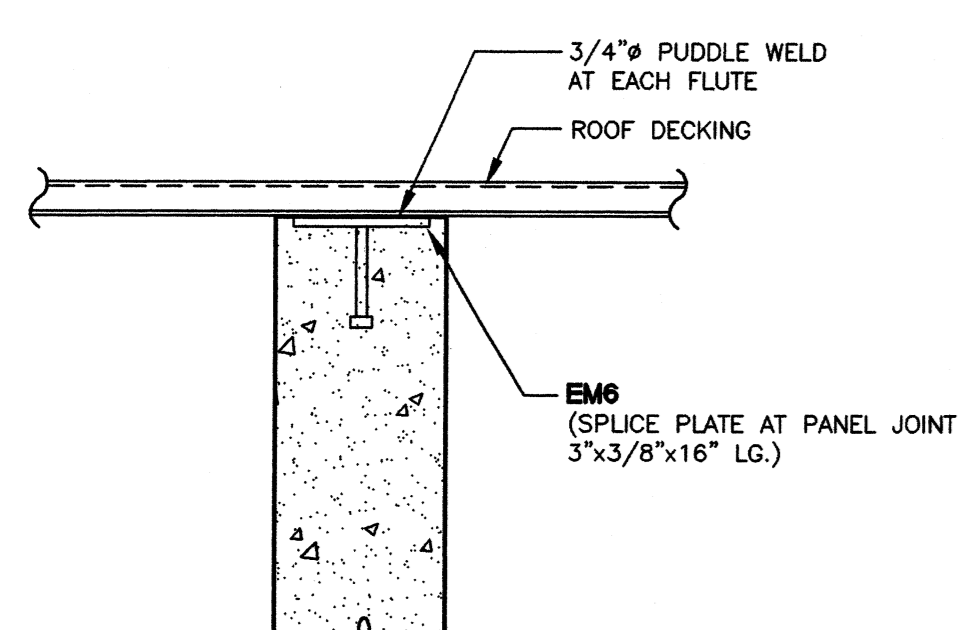
**7 TYPICAL TILT-UP PANEL TO FOUNDATION (EXTERIOR WALL)**  
3/4"=1'-0"



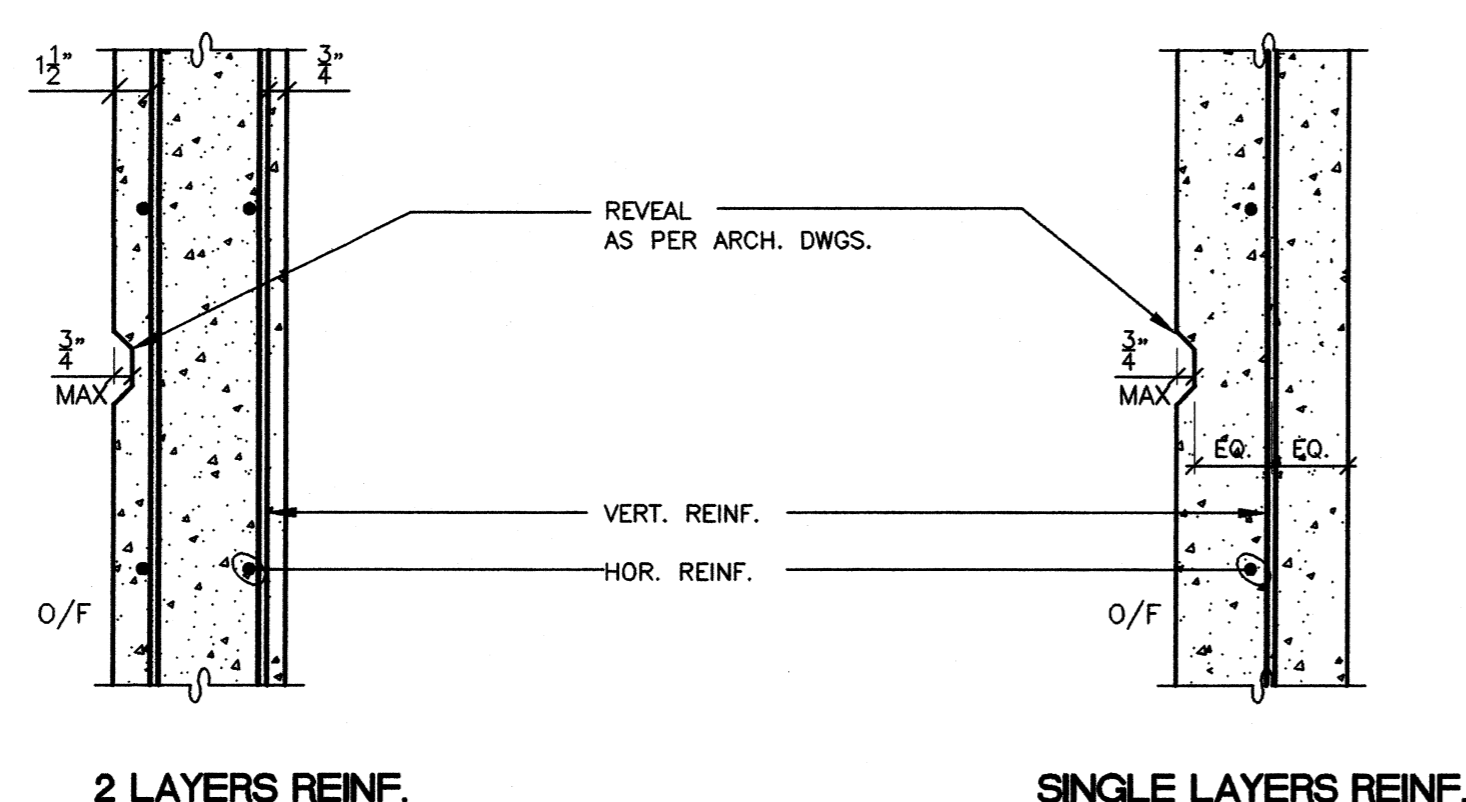
**8 TYPICAL TILT-UP PANEL TO FOUNDATION (INTERIOR WALL)**  
3/4"=1'-0"



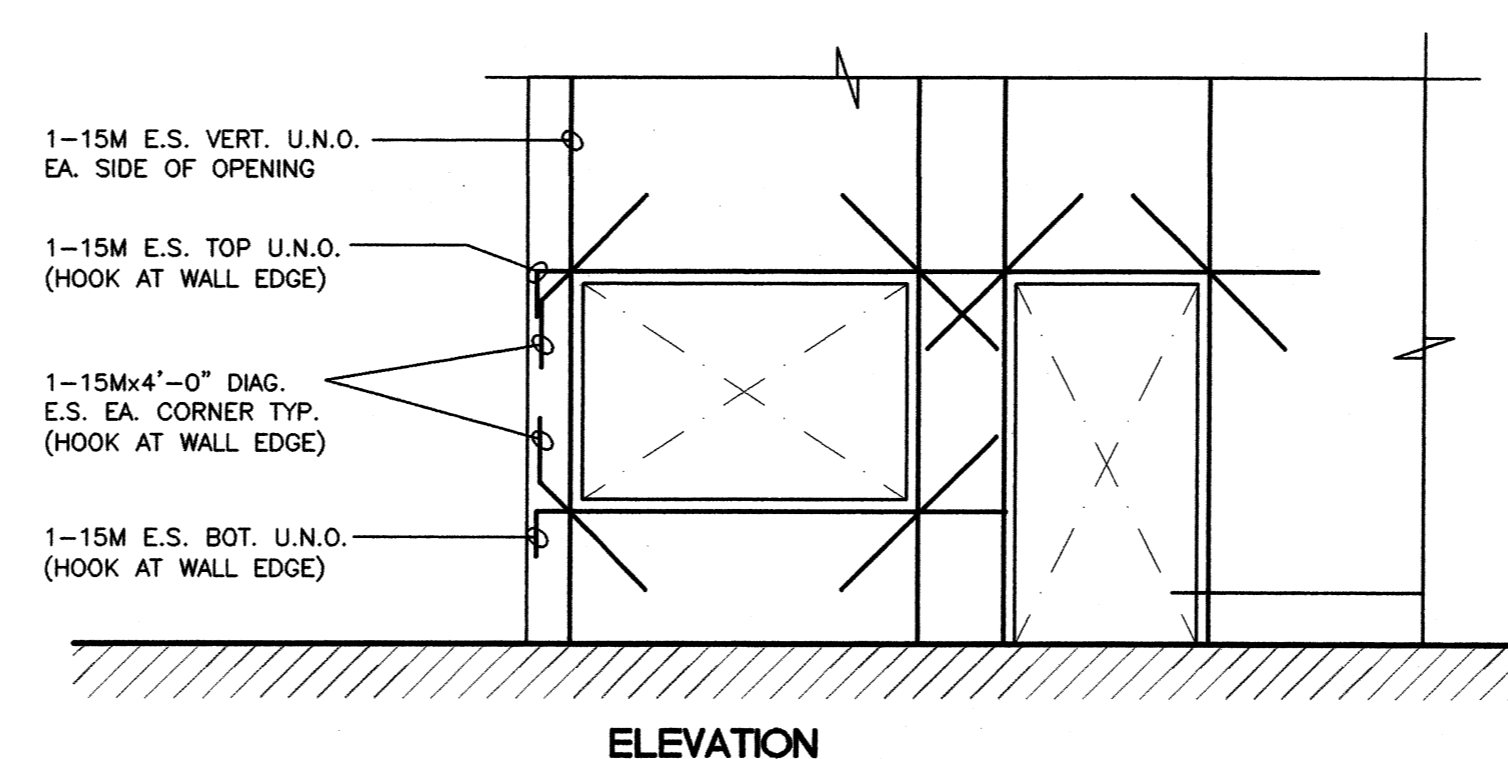
**14 TYPICAL STEEL DECK TO TILT-UP PANEL CONNECTION AT FLOOR**  
3/4"=1'-0"



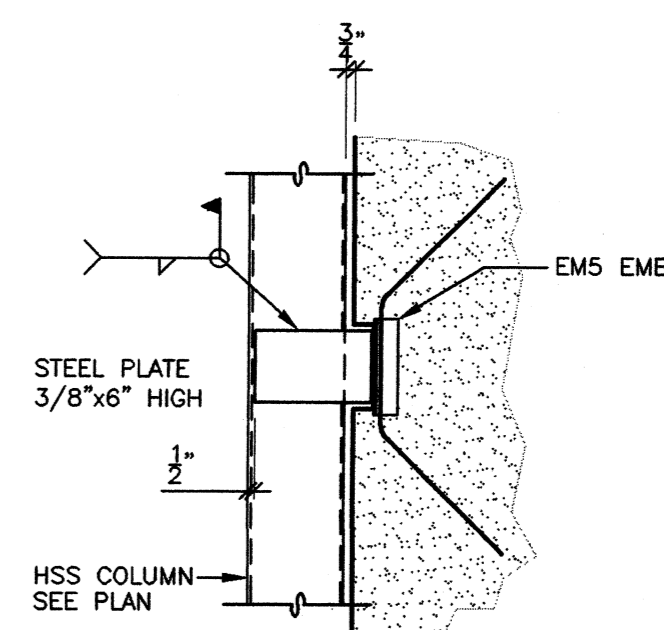
**9 TYPICAL ROOF DECKING CONNECTION**  
3/4"=1'-0"



**10 TYPICAL PANEL REINFORCING**  
1/2"=1'-0"



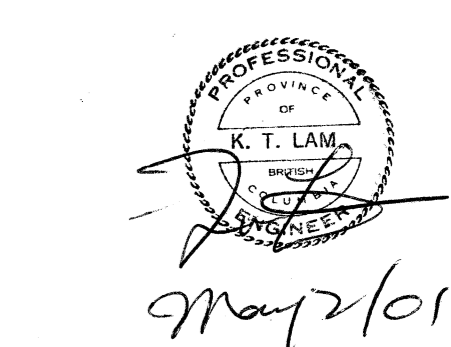
**10 TYPICAL PANEL REINFORCING AT OPENING (U.N.O.)**  
NTS



**15 SECTION S08**  
3/4"=1'-0"

NOTES  
1. REFER TO DRAWING S01 FOR NOTES ON CONCRETE REINFORCING AND TILT UP PANELS.  
2. FOR EMBEDDED PLATE SCHEDULE SEE DWG S06.

NO	DATE	REVISIONS
-	APR.30/01	ISSUED FOR TENDER
-	FEB.21/01	ISSUED FOR BUILDING PERMIT

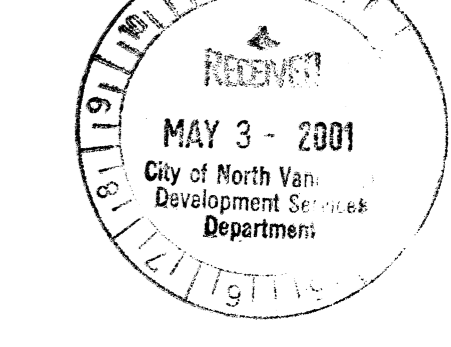


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TILT-UP PANEL DETAILS

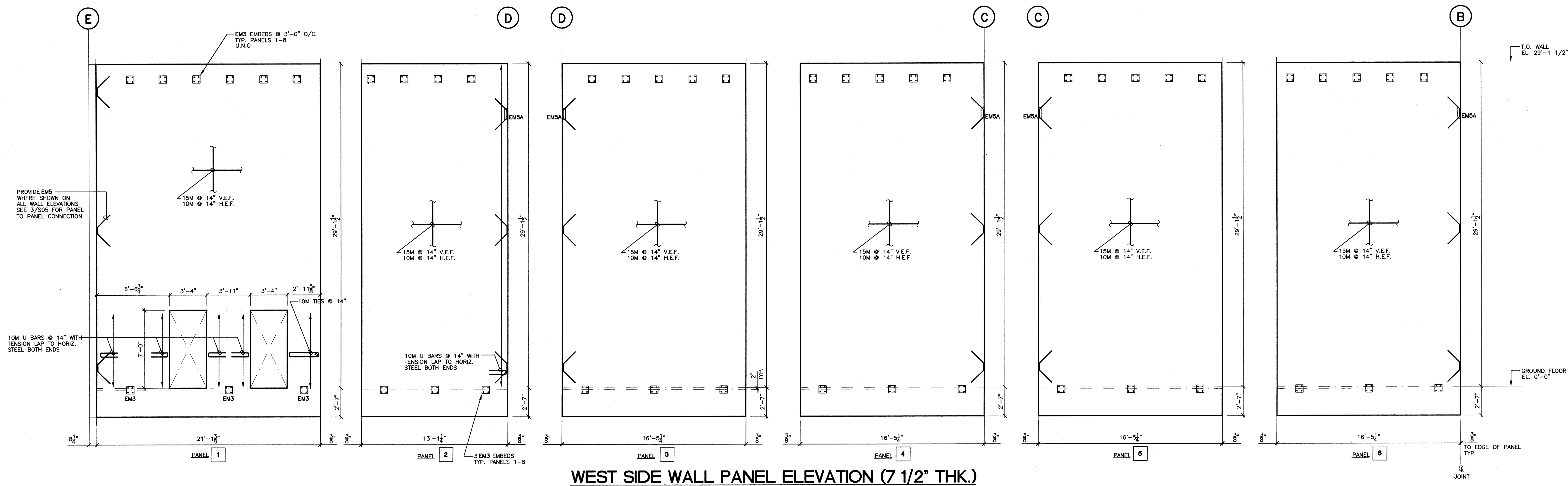
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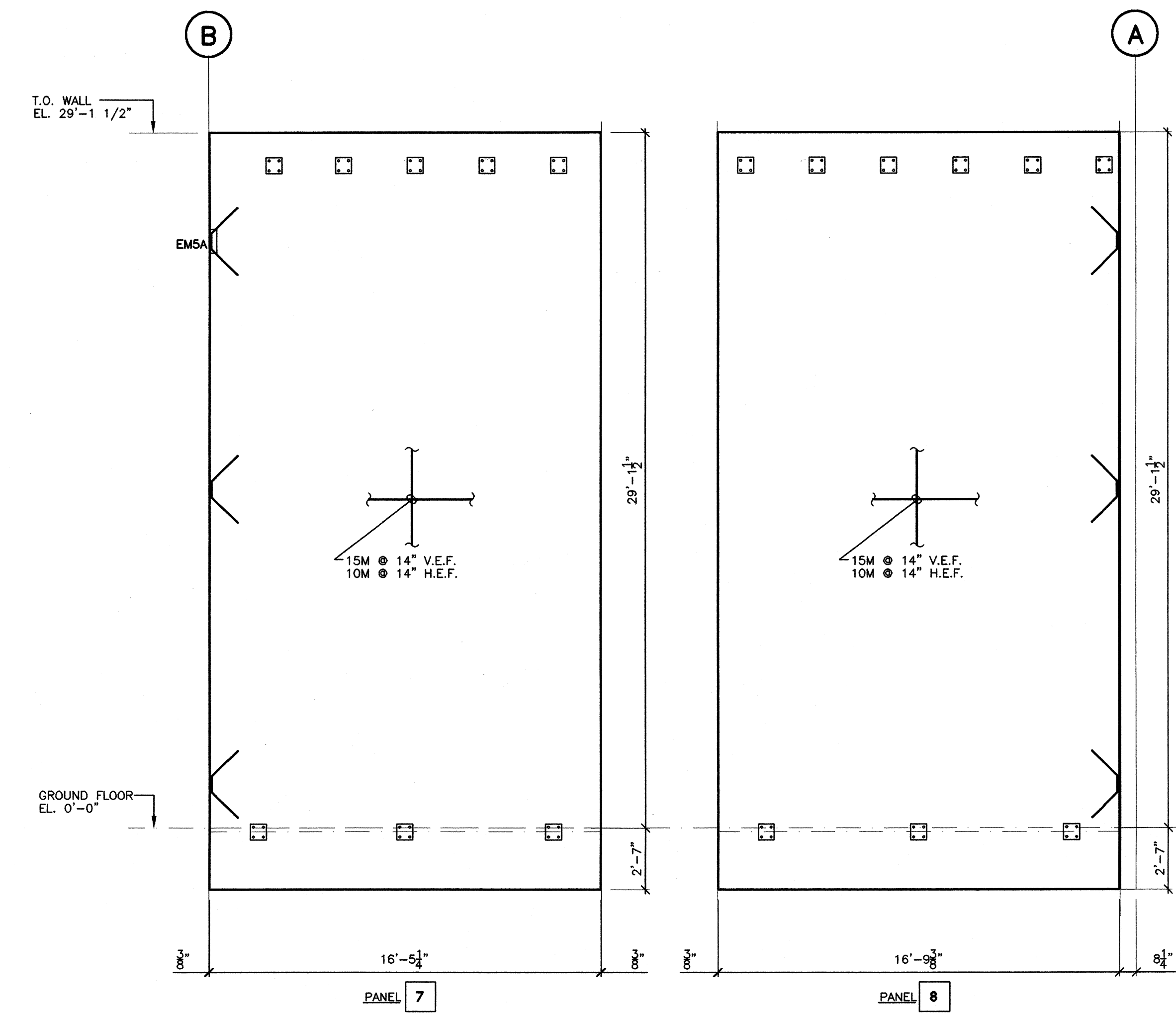


S05

SCALE	PROJECT
AS NOTED	C911
DRAWN KJB	DATE JAN.2001



WEST SIDE WALL PANEL ELEVATION (7 1/2" THK.)



WEST SIDE WALL PANEL ELEVATION-CONT.D (7 1/2" THK.)

- NOTES**
1. REFER TO DRAWING S01 FOR NOTES ON CONCRETE, REINFORCING, AND TILT UP PANELS
  2. REFER TO DRAWING S05 FOR TYPICAL TILT UP PANEL DETAILS - U.N.O.
  3. SEE ARCHITECTURAL DRAWINGS FOR REVEALS AND RECESSES

EMBED SCHEDULE FOR TILT-UP PANELS		
<p><b>EM3 EMBED</b> L3 1/2x3 1/2x1/4 x9" LG. 2-5/8" DEFORMED BAR ANCHORS (GR 400W)</p>	<p><b>EM4 EMBED</b> L3 1/2x3 1/2x1/4 x9" LG. 2-5/8" DEFORMED BAR ANCHORS (GR 400W)</p>	<p><b>EM5 EMBED</b> L4x5/8" CONT. PLATE C/W 1/2"x4" LG SHEAR STUDS @ 6" (MIN. 4 STUDS PER LENGTH)</p>
<p><b>EM6 EMBED</b> 6"x8"x3/8" PLATE C/W 2-5/8" x4" LG SHEAR STUDS</p>	<p><b>EM7 EMBED</b> 8"x8"x3/8" PLATE C/W 4-5/8" x4" LG SHEAR STUDS</p>	<p><b>EM8 EMBED</b> 8"x8"x3/8" PLATE C/W 4-5/8" x4" LG SHEAR STUDS</p>
<p><b>EM9 EMBED</b> 9"x13/16"x1/2" PLATE C/W 8-5/8" x4" LG SHEAR STUDS</p>	<p><b>EM10 EMBED</b> 32"x10"x1/2" PLATE C/W 16-5/8"x6" LG. SHEAR STUDS</p>	<p><b>EM11 EMBED</b> 22"x10"x1/2" PLATE C/W 10-5/8"x6" LG. SHEAR STUDS</p>
<p><b>EM12 EMBED</b> L1 1/2x1 1/2x3/16 x8" LG. 20M REBAR ANCHORS (GR 400W)</p>	<p><b>EM13 EMBED</b> 8"x8"x1/2" PLATE C/W 4-5/8" x 24" LG. DEFORMED BAR ANCHORS (GR 400W)</p>	<p><b>EM14 EMBED</b> 7 1/2"x16"x3/4" PLATE C/W 8-5/8" x 24" LG. DEFORMED BAR ANCHORS (GR 400W)</p>

NO	DATE	REVISIONS
-	APR-30/01	ISSUED FOR TENDER
-	FEB-21/01	ISSUED FOR BUILDING PERMIT

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CONSULTANT

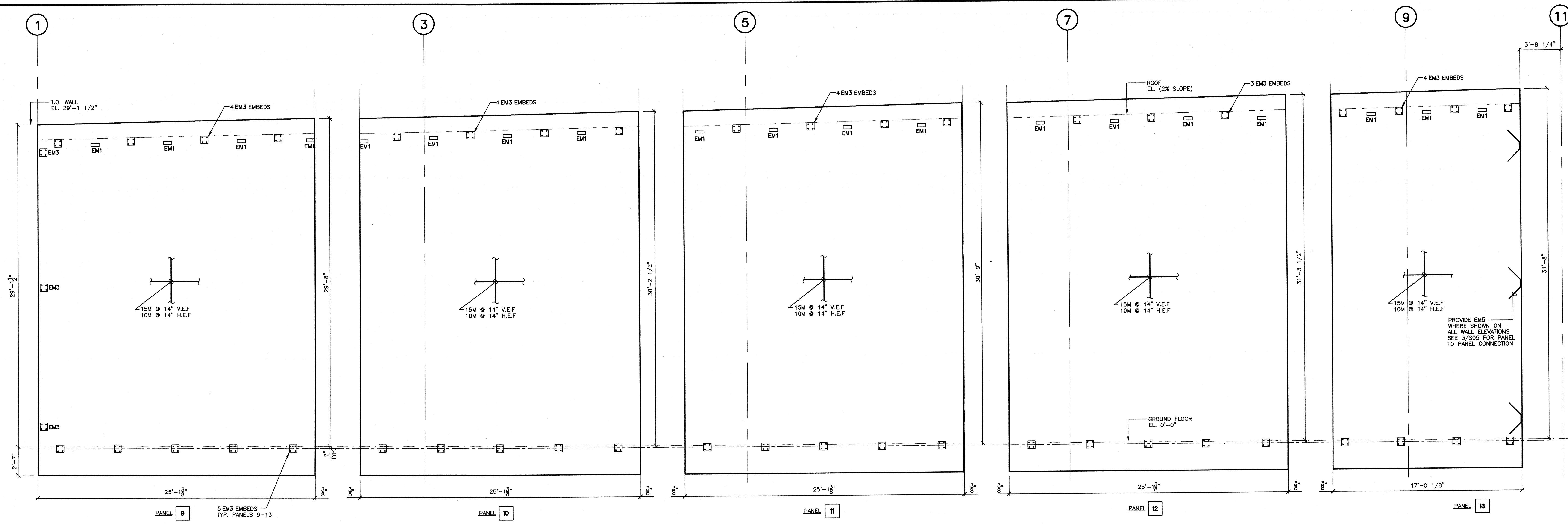
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Canada V6J 1G1 msh@fastepp.com

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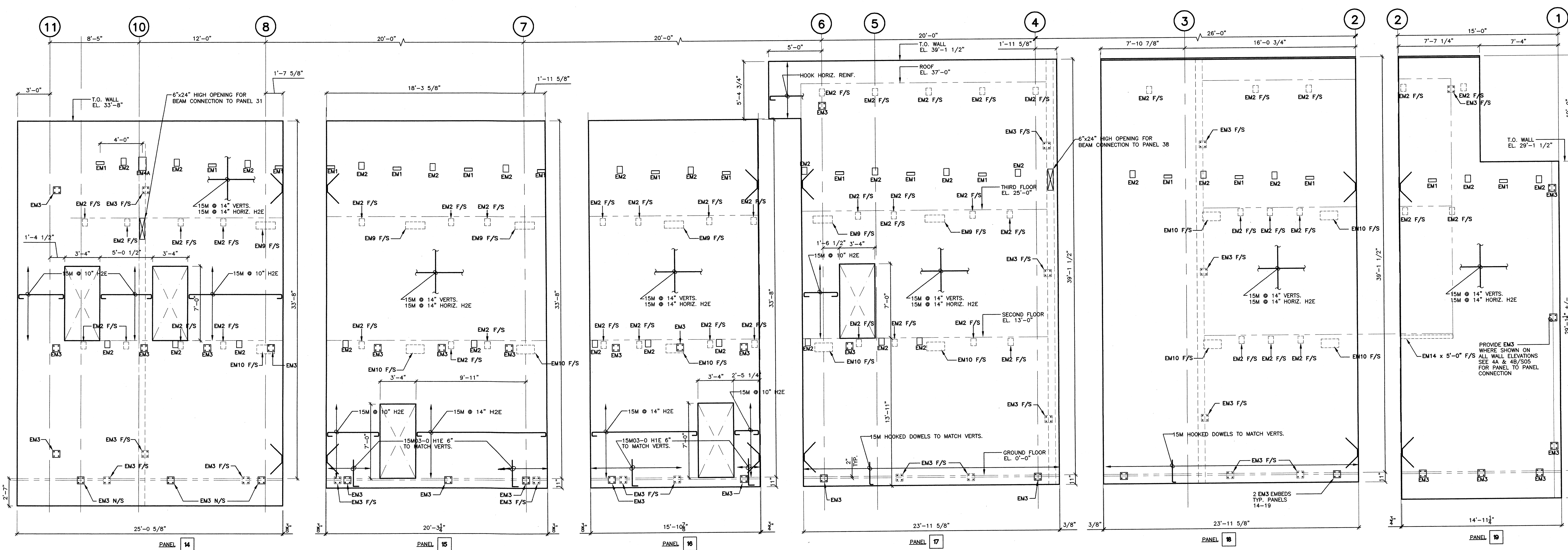
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**S06**

SCALE 1/4"=1'-0" PROJECT C911  
DRAWN KJB DATE JAN.2001



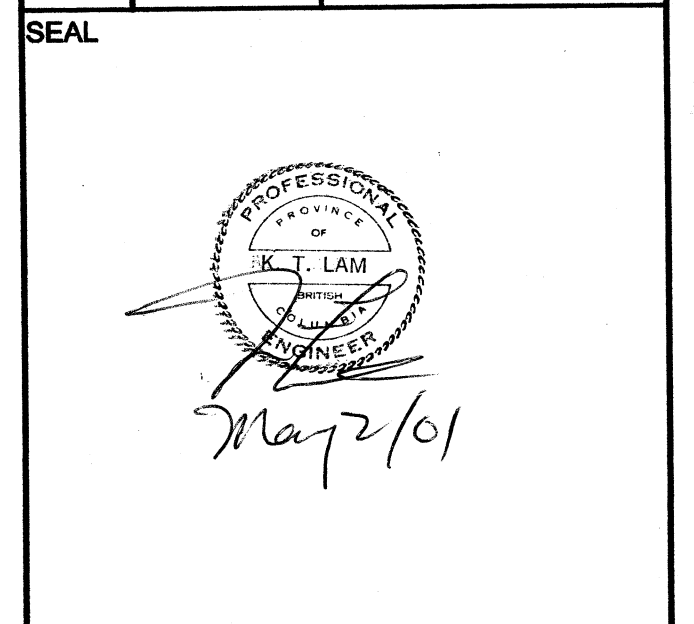
NORTH SIDE WALL PANEL ELEVATION (7 1/2' THK.)



INTERIOR WALL PANEL ELEVATION ON G/L 'E' (7 1/2' THK.)

NOTES  
 1. REFER TO DRAWING S01 FOR NOTES ON CONCRETE, REINFORCING, AND TILT UP PANELS  
 2. REFER TO DRAWING S05 & S06 FOR EMBED SCHEDULE AND TYP. TILT UP PANEL DETAILS. - U.N.O.  
 3. SEE ARCHITECTURAL DRAWINGS FOR REVEALS AND RECESSES

NO	DATE	REVISIONS
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TILT-UP PANEL ELEVATIONS

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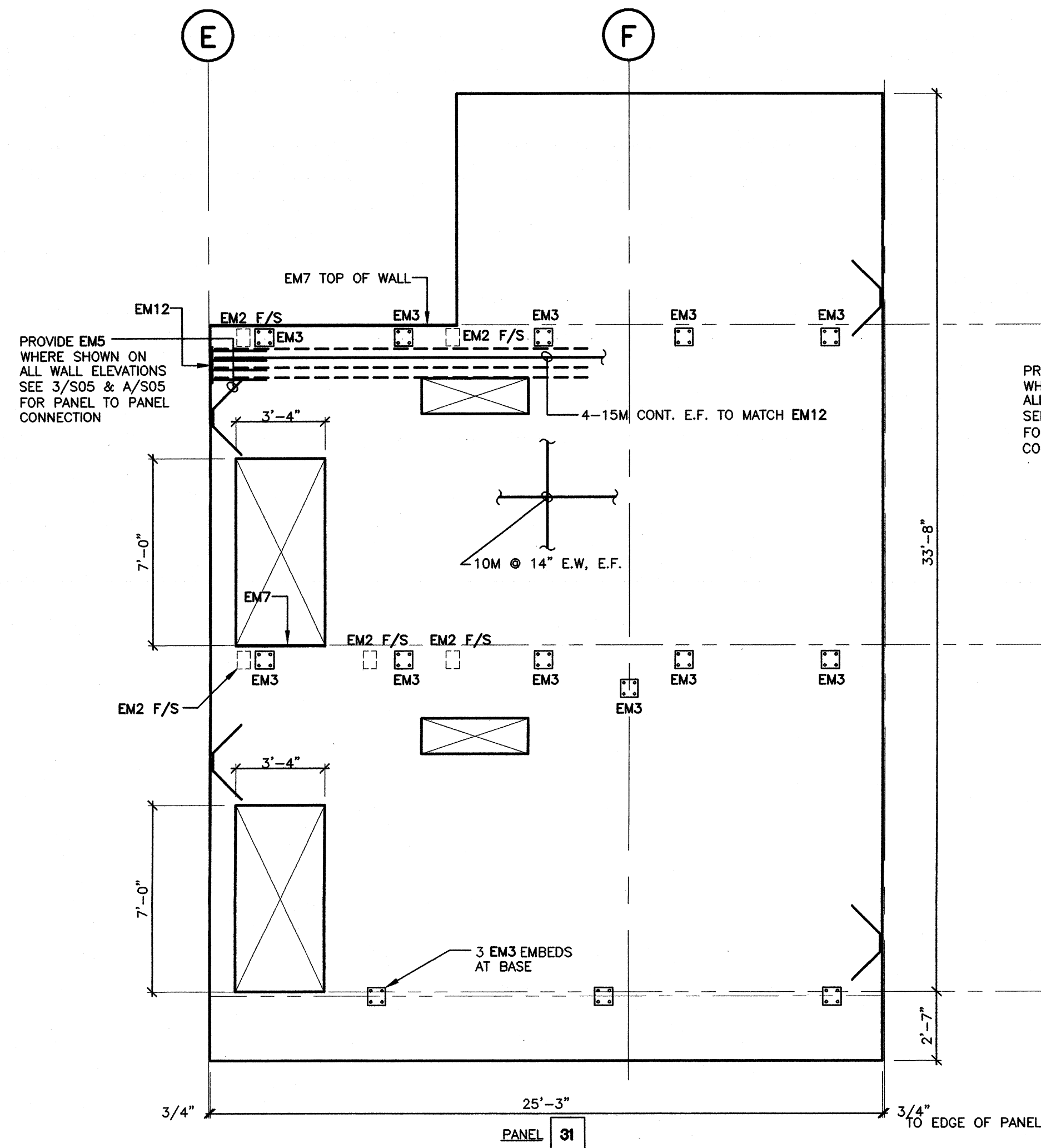
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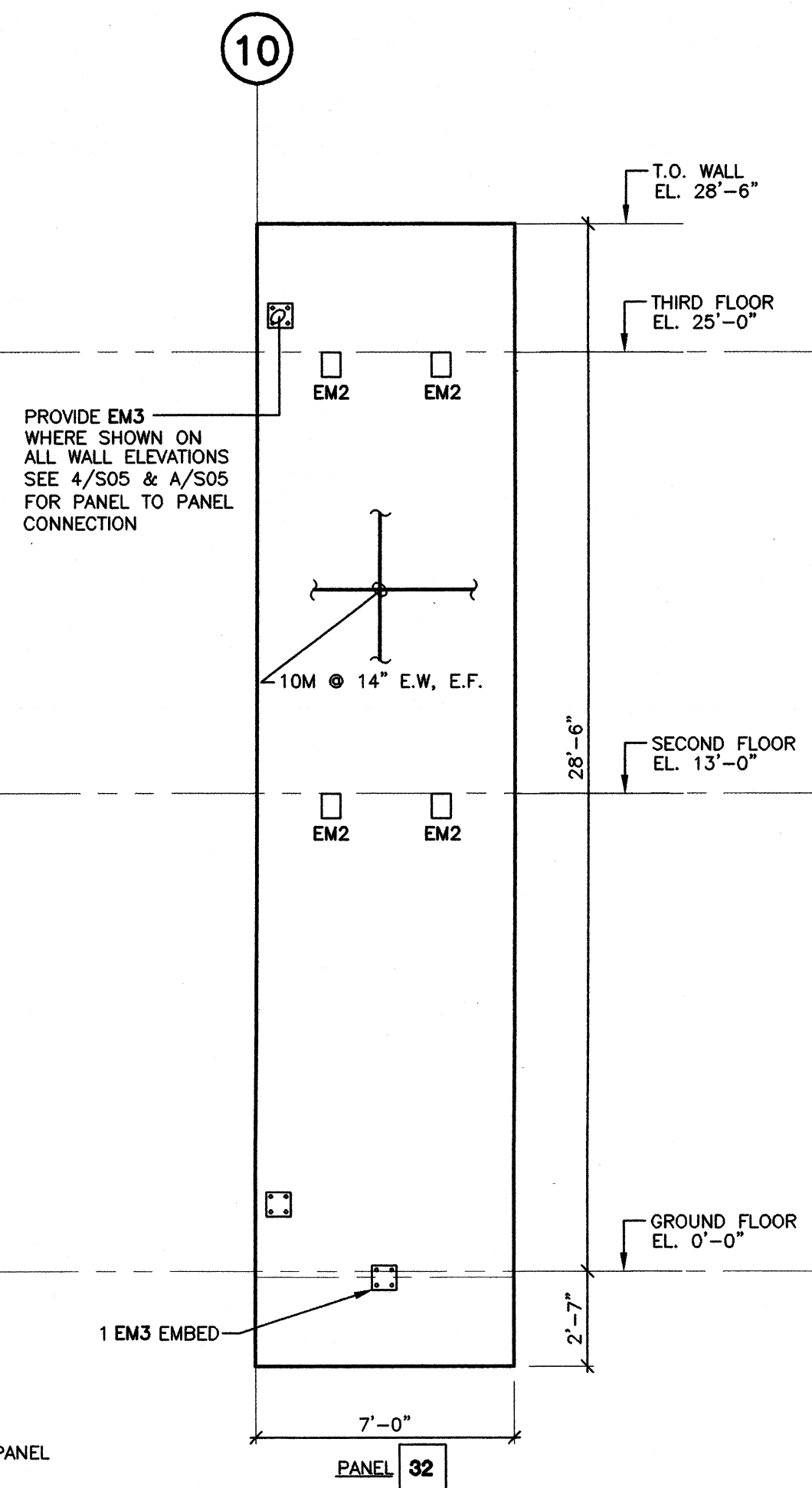
S07

SCALE	PROJECT
1/4"=1'-0"	C911
DRAWN	DATE
KJB	JAN 2001

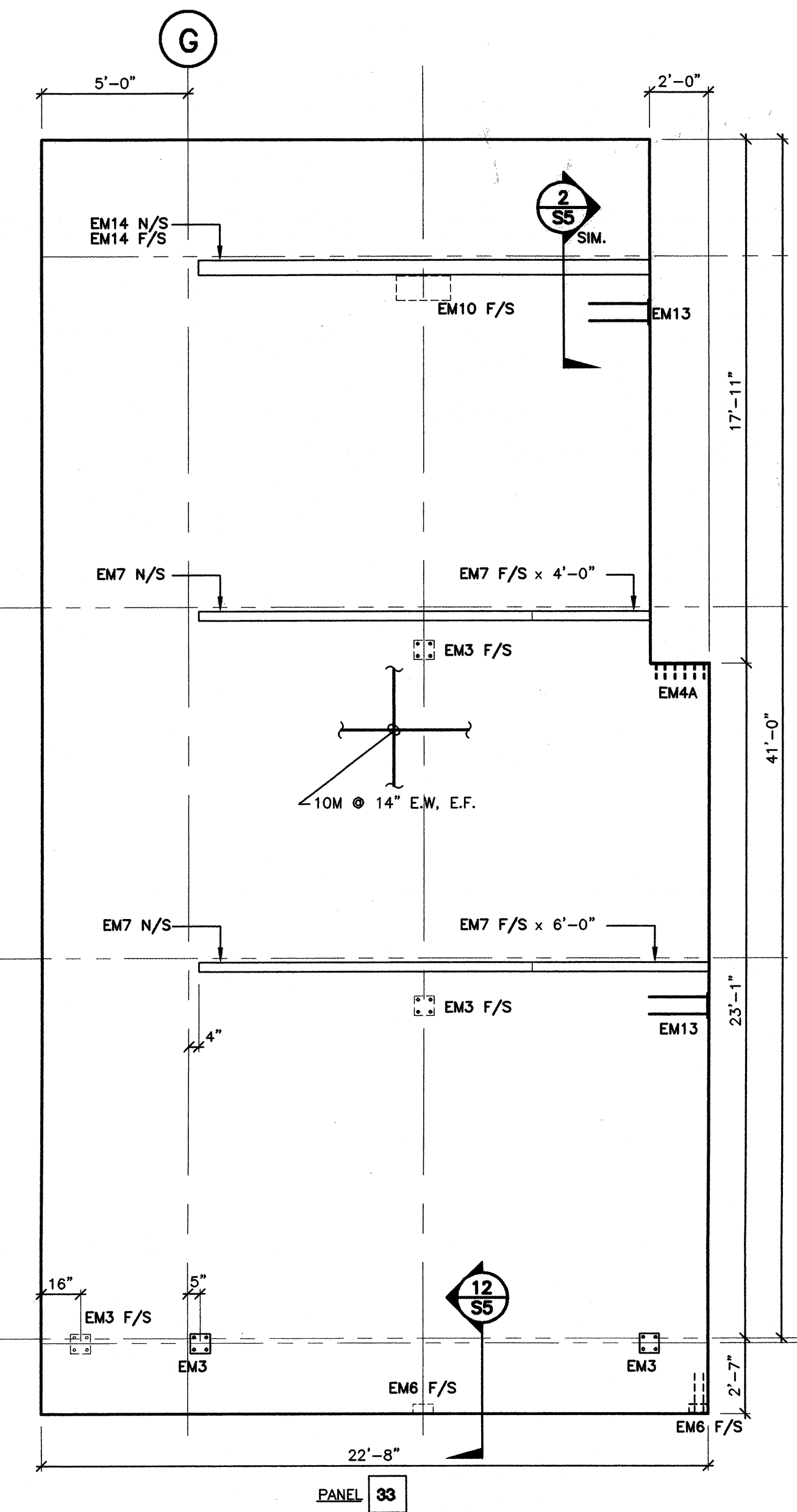




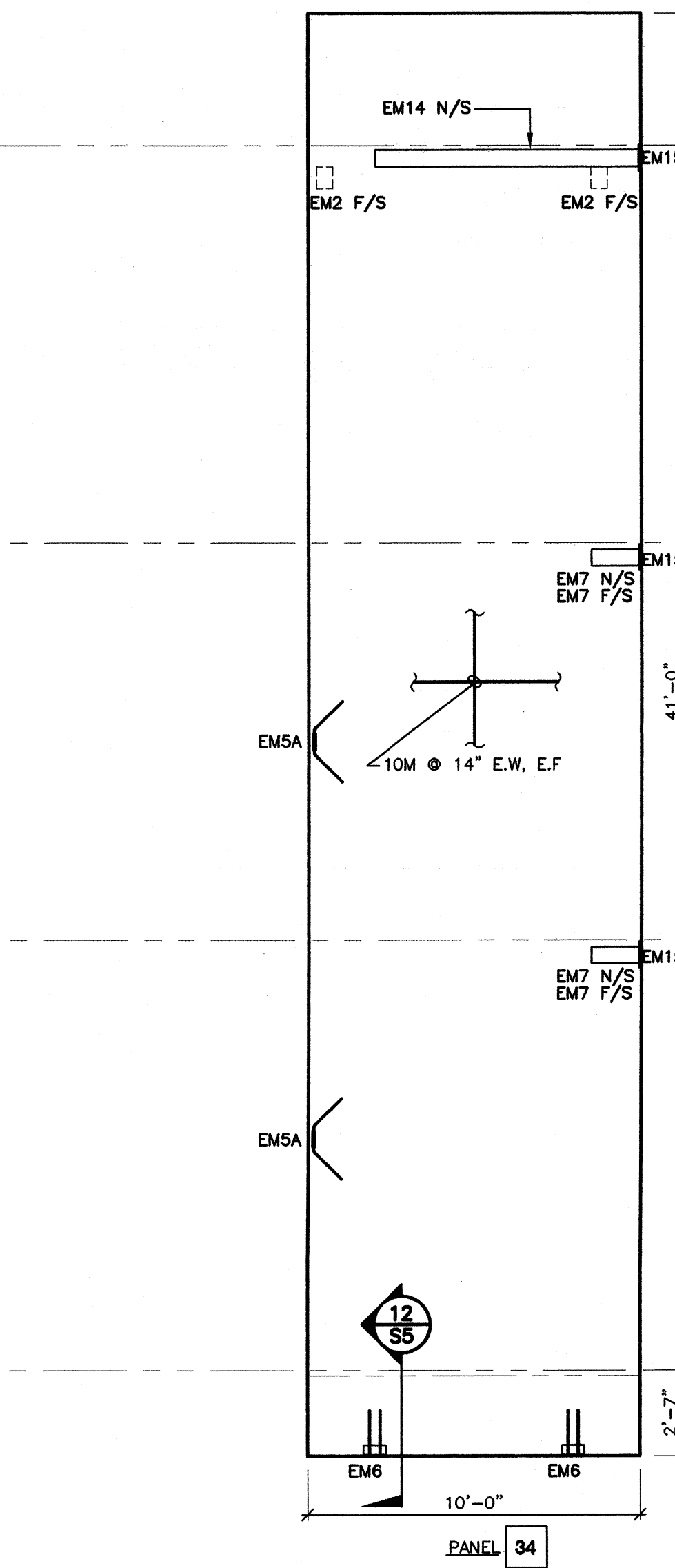
**EAST SIDE WALL PANEL ELEVATION ON G/L '10' (7 1/2" THK.)**



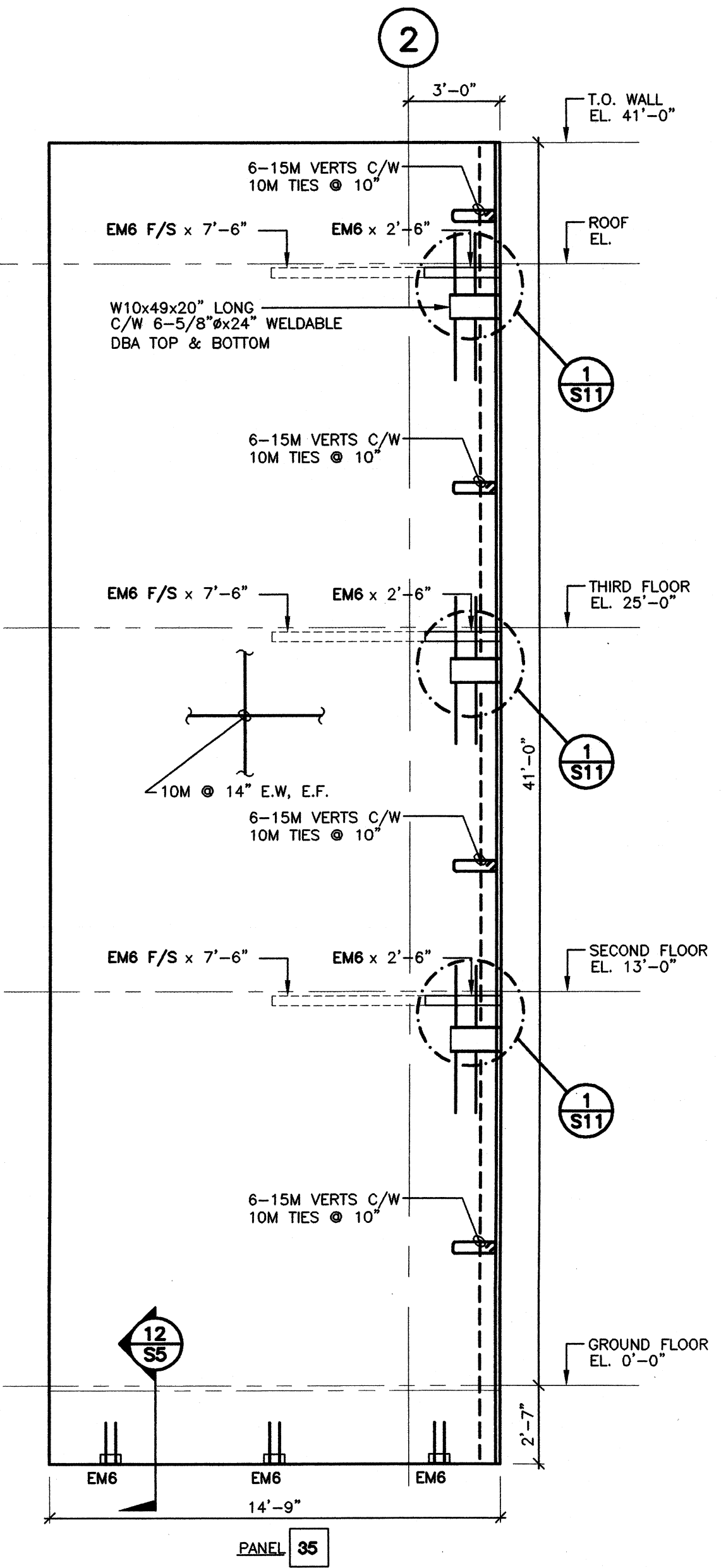
**SOUTH WALL PANEL ELEVATION (7 1/2" THK.)**



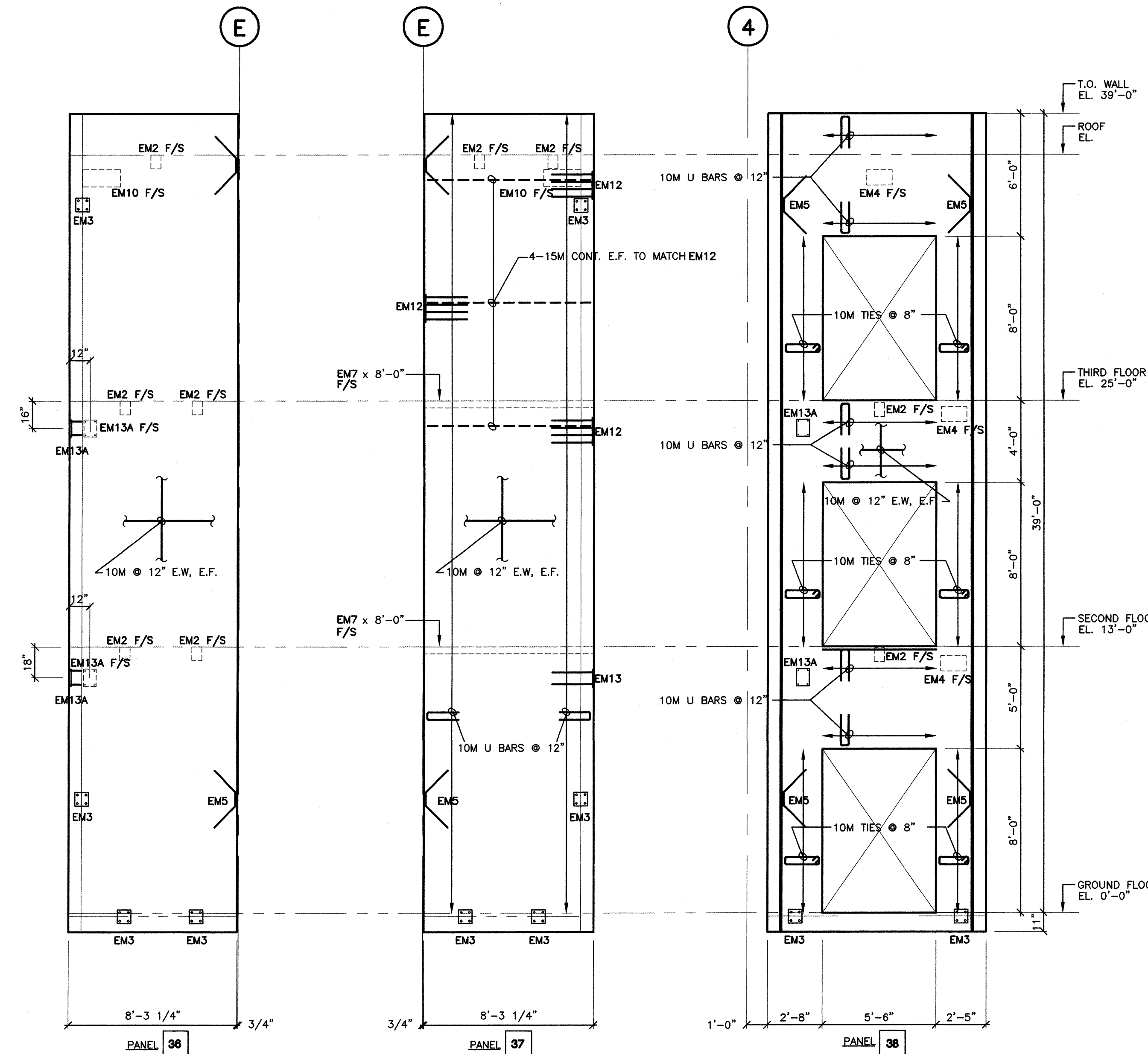
**INTERIOR WALL PANEL ON G/L '4' (9" THK.)**



**WALL PANEL ADJACENT MAIN STAIRS (9" THK.)**



**WALL PANEL ON G/L 'F' (10" THK.)**



**ELEVATOR WALL PANEL ELEVATIONS (7 1/2" THK.)**

**NOTES**  
 1. REFER TO DRAWING S01 FOR NOTES ON CONCRETE, REINFORCING, AND TILT UP PANELS  
 2. REFER TO DRAWING S05 & S06 FOR EMBED SCHEDULE AND TYP. TILT UP PANEL DETAILS. - U.N.O.  
 3. SEE ARCHITECTURAL DRAWINGS FOR REVEALS AND RECESSES

NO	DATE	REVISIONS
-	APR.30/01	ISSUED FOR TENDER
-	FEB.21/01	ISSUED FOR BUILDING PERMIT



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**TILT-UP PANELS ELEVATIONS**

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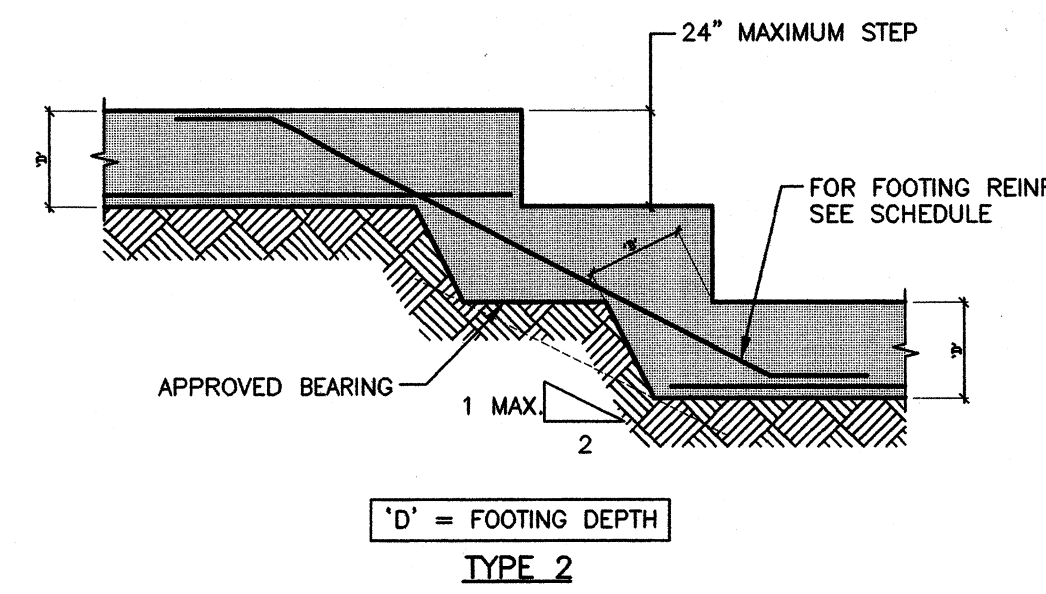
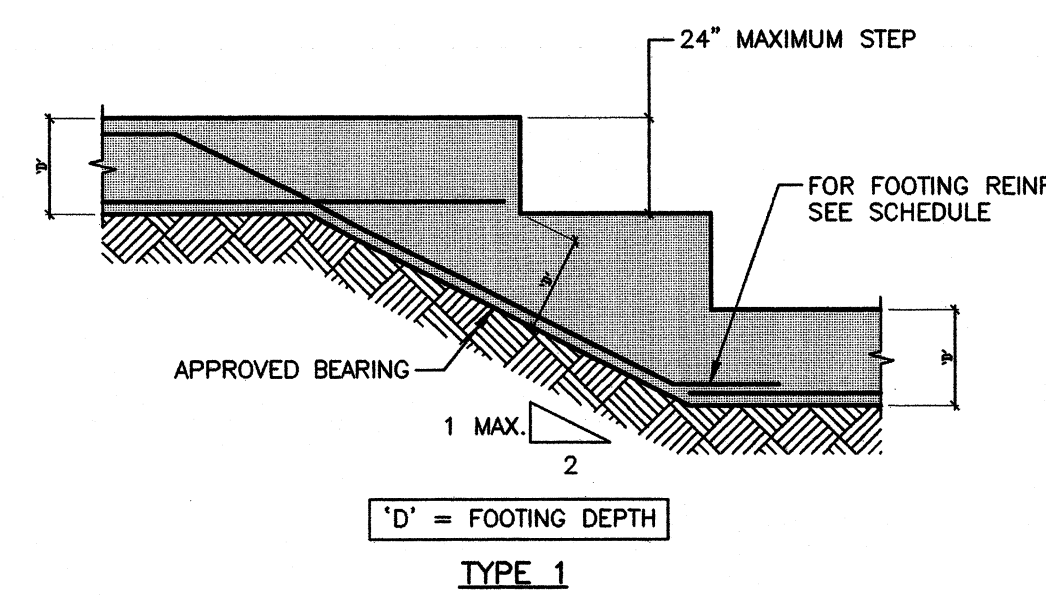
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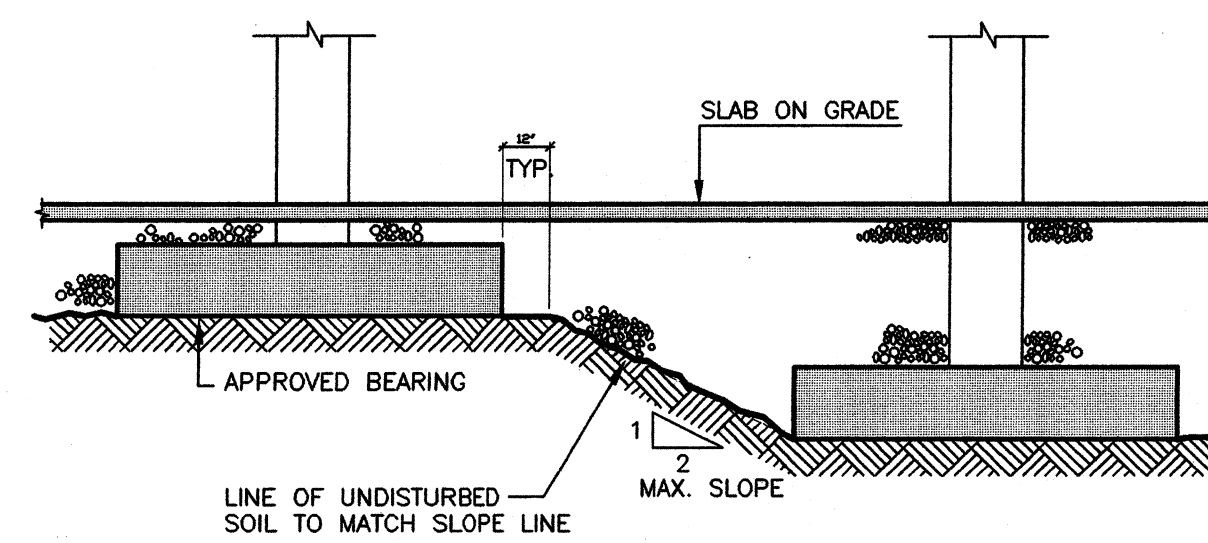
**S09**

SCALE	PROJECT
1/4"=1'-0"	C911
DRAWN	DATE
KJB	JAN.2001

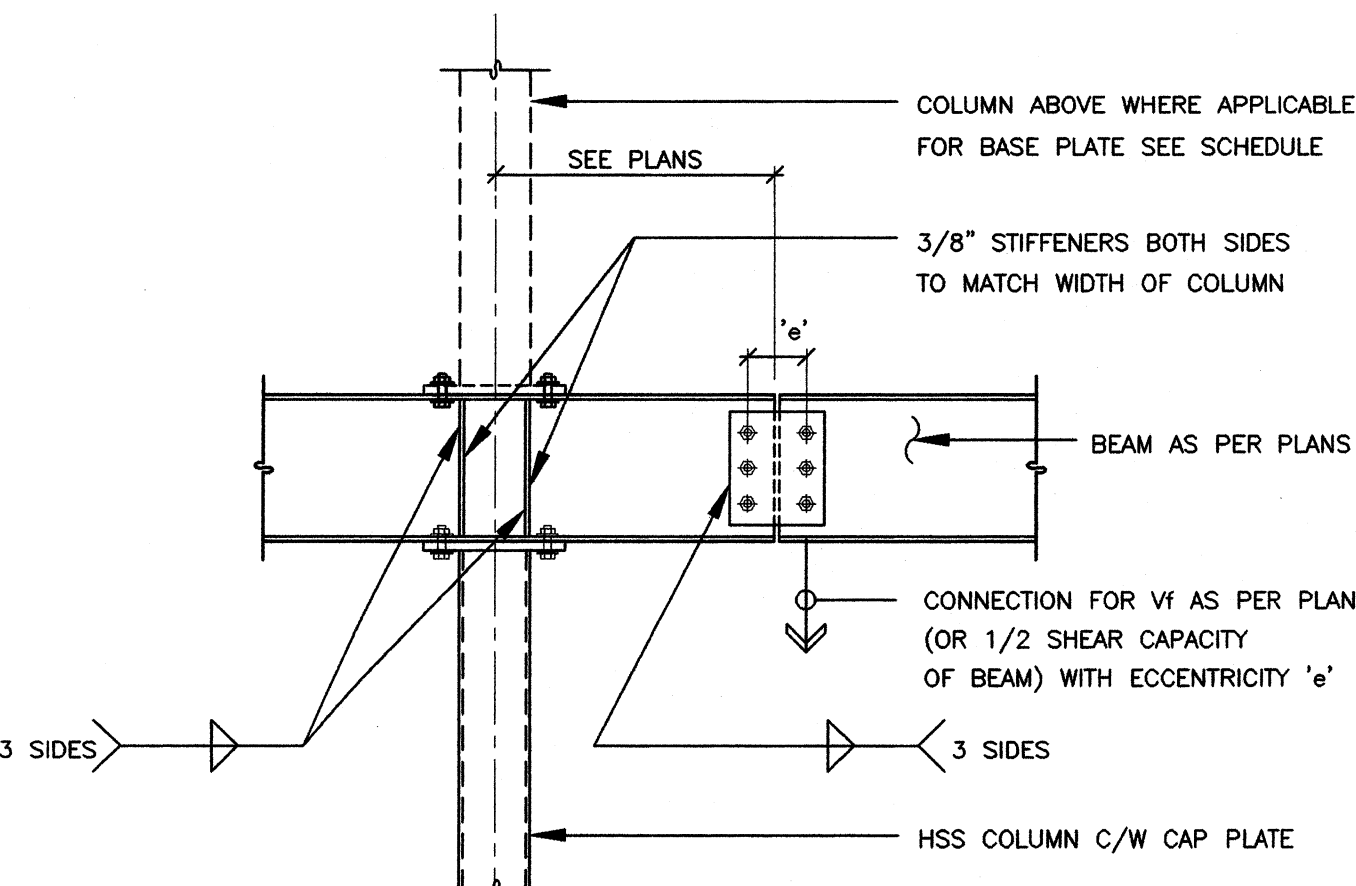




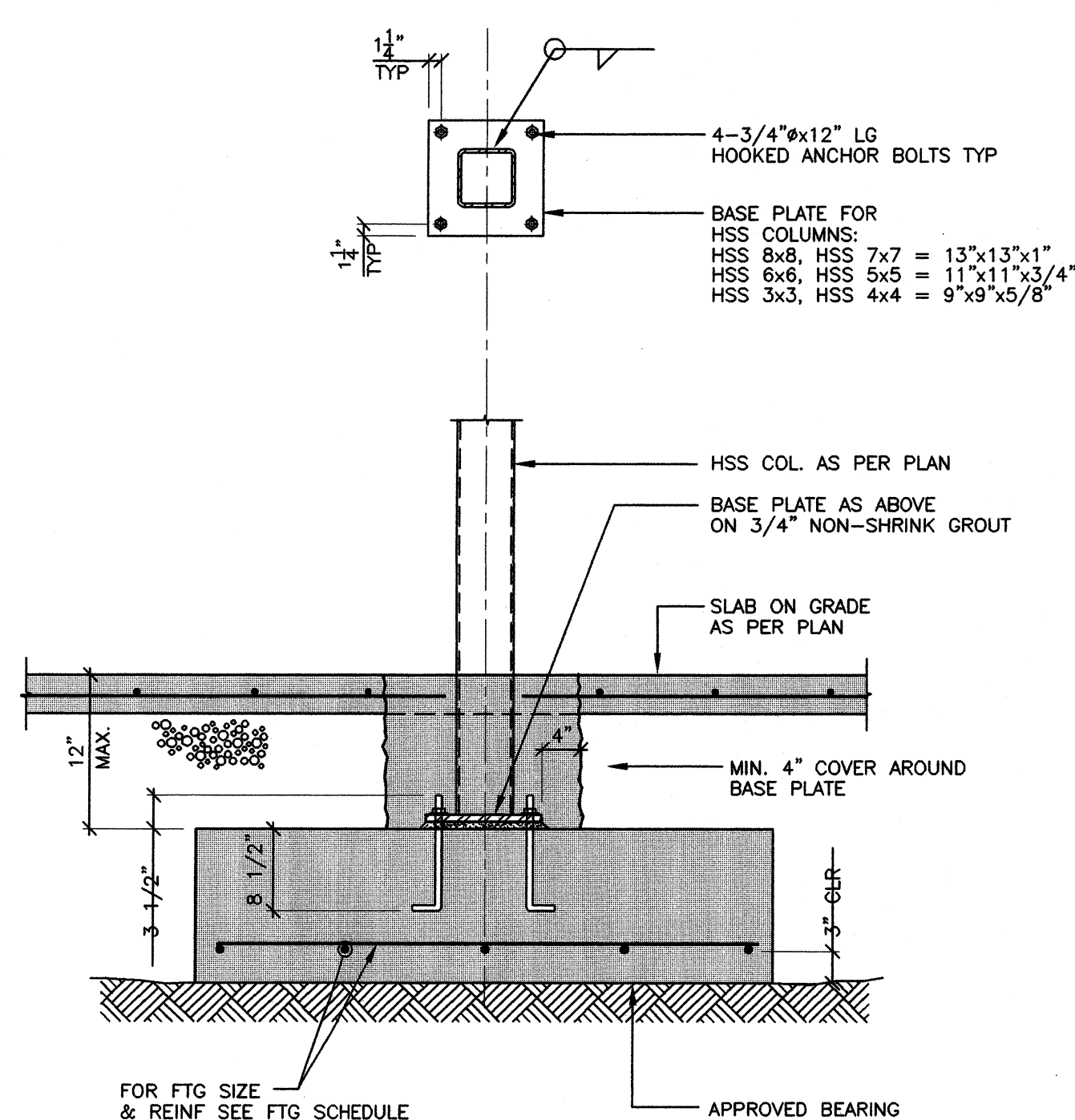
**1 TYPICAL STEPPED STRIP FOOTING**



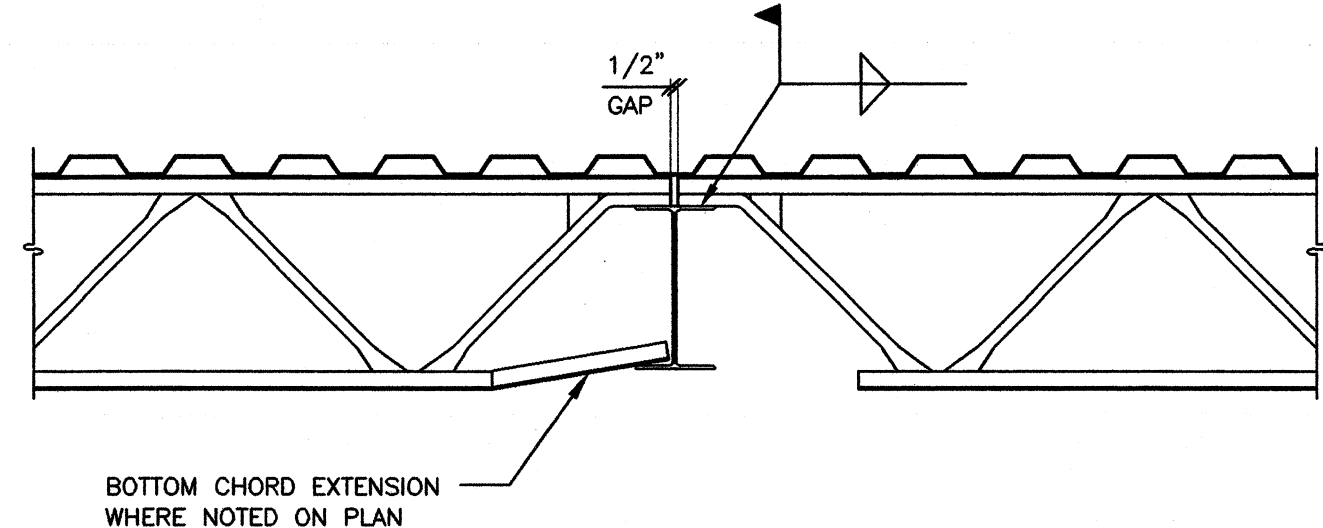
**2 TYP. ADJACENT FOOTING**



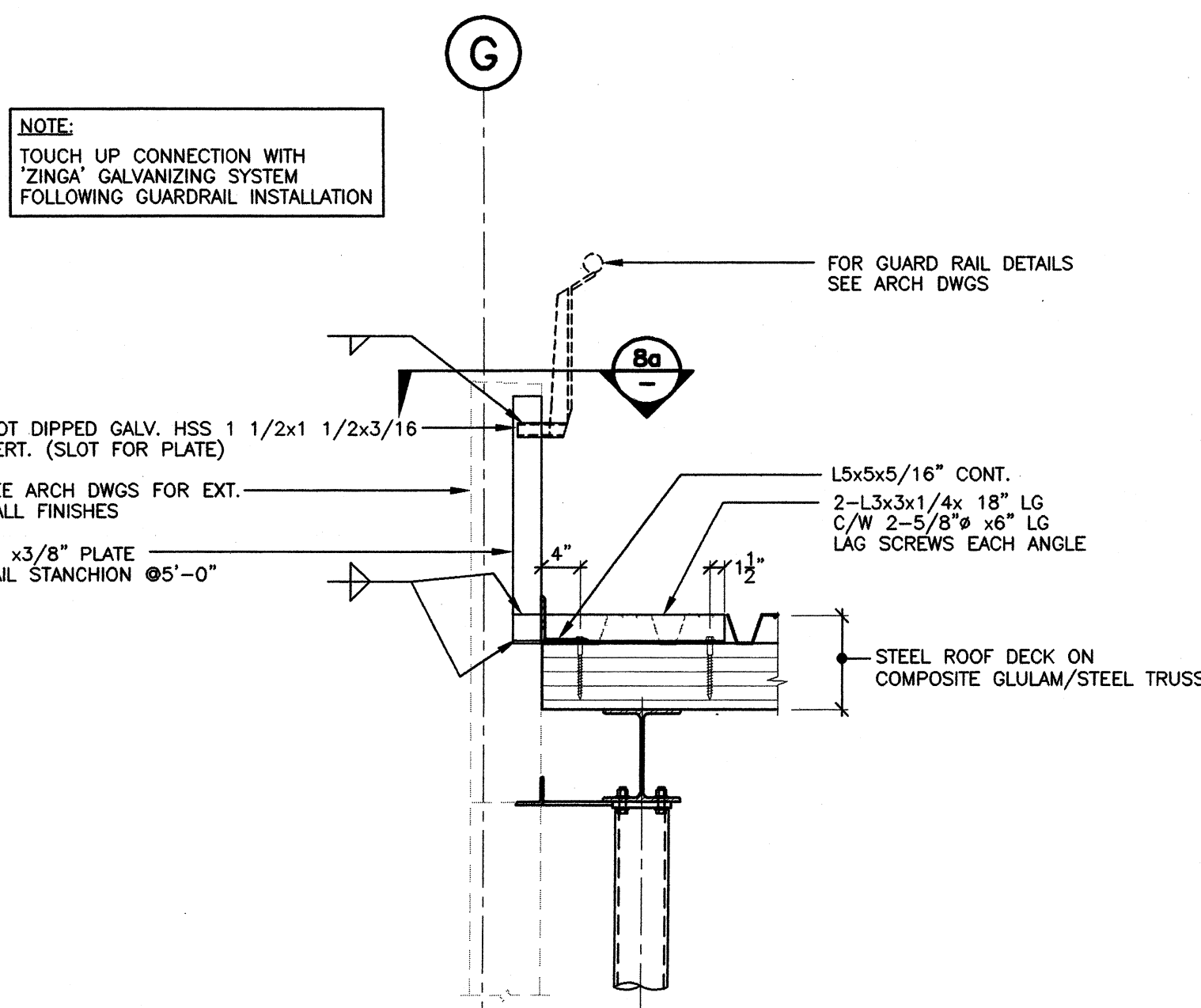
**3 TYP STEEL BEAM TO HSS COLUMN**



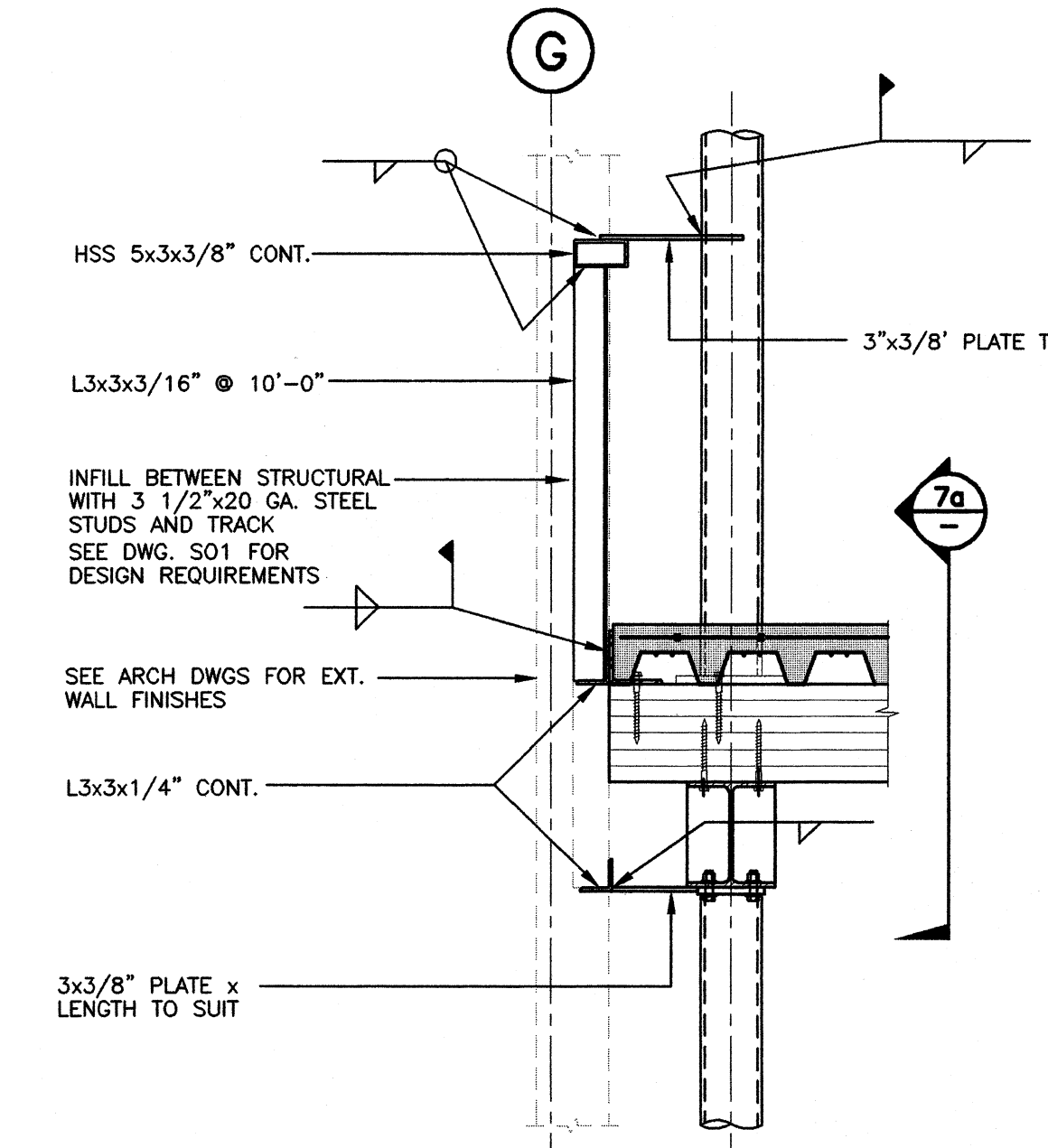
**4 TYP HSS COL. AT FOOTING**



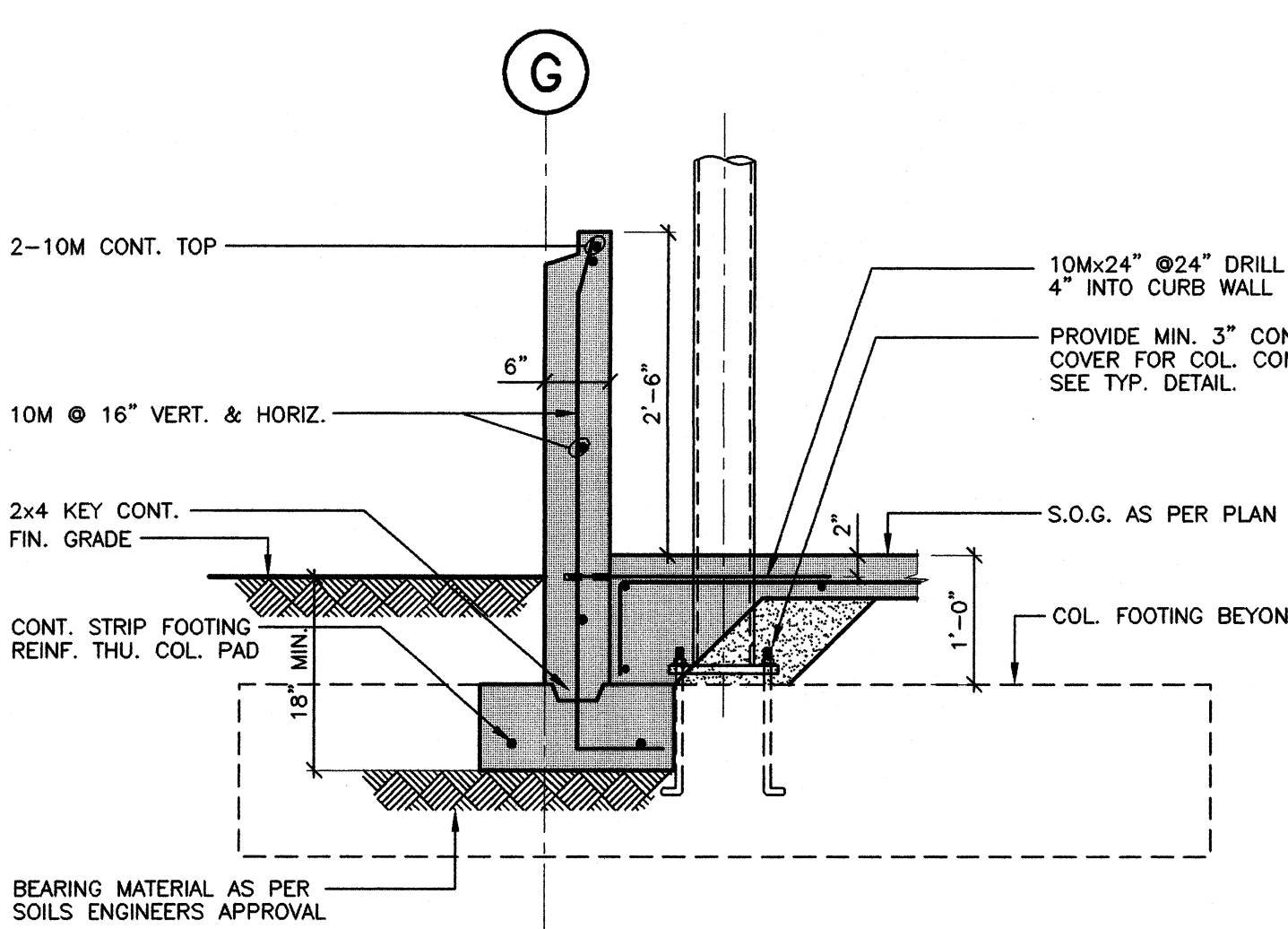
**5 TYPICAL OWSJ TO BEAM CONNECTION**



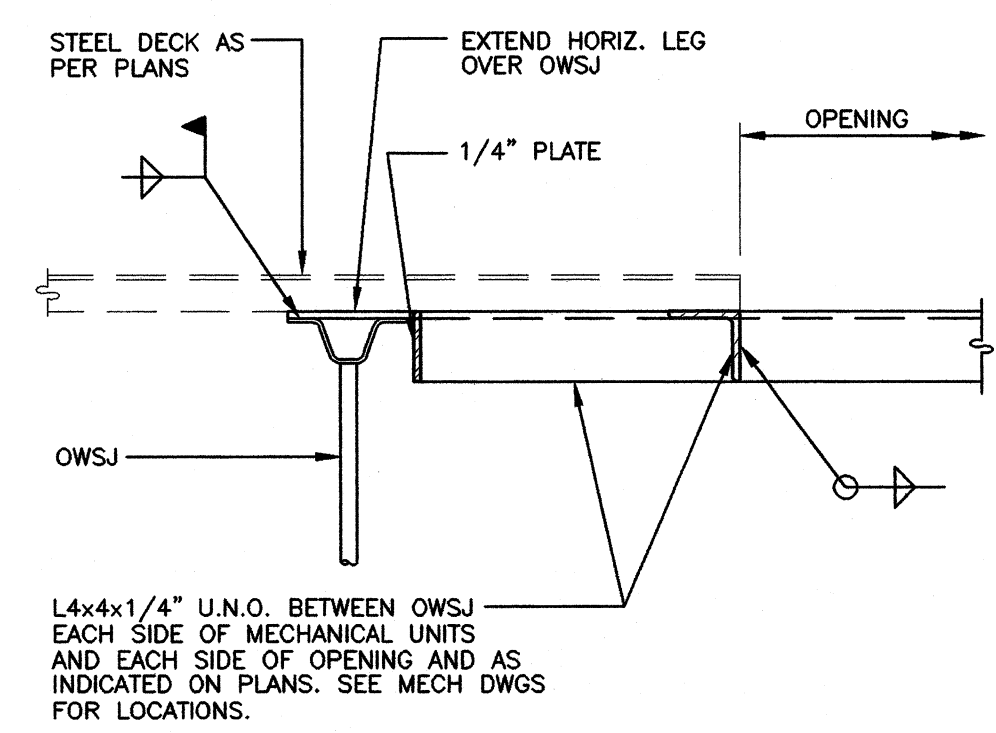
**6 SECTION S04**



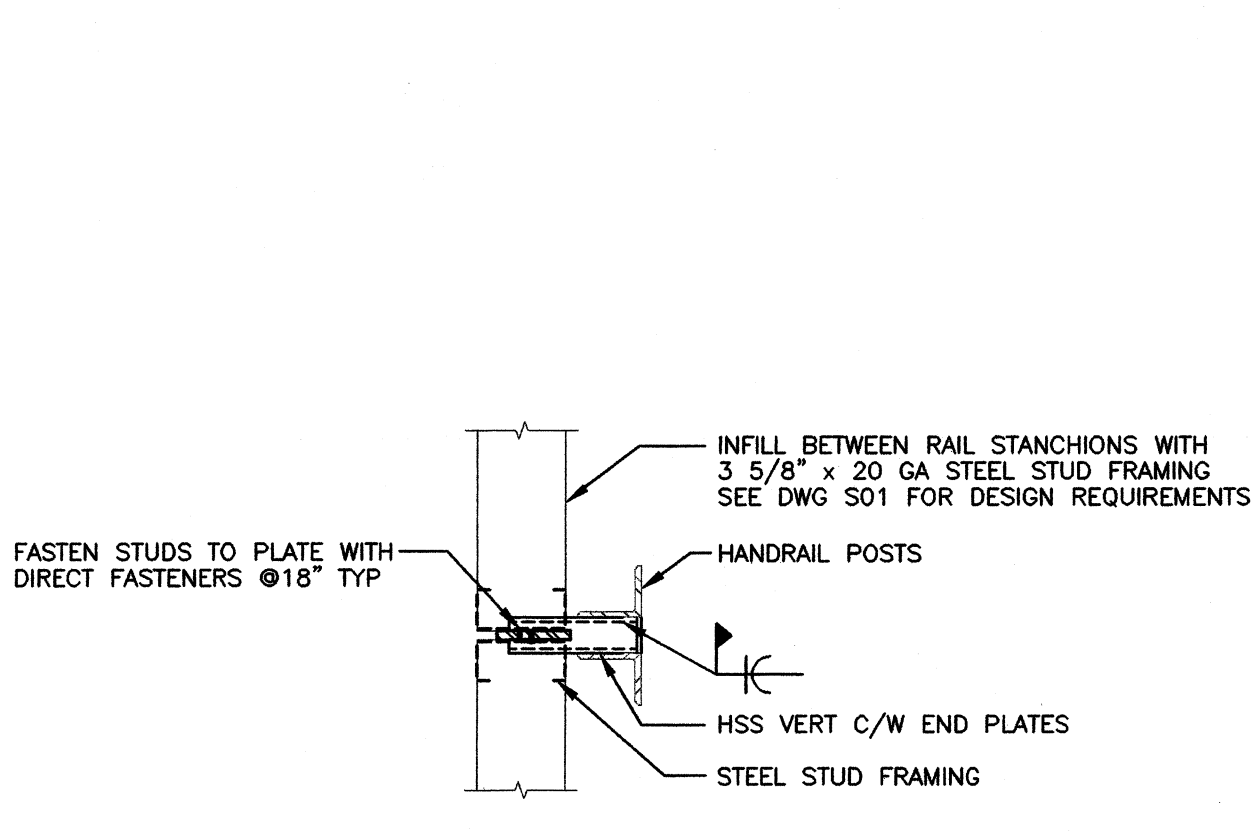
**7 SECTION S03**



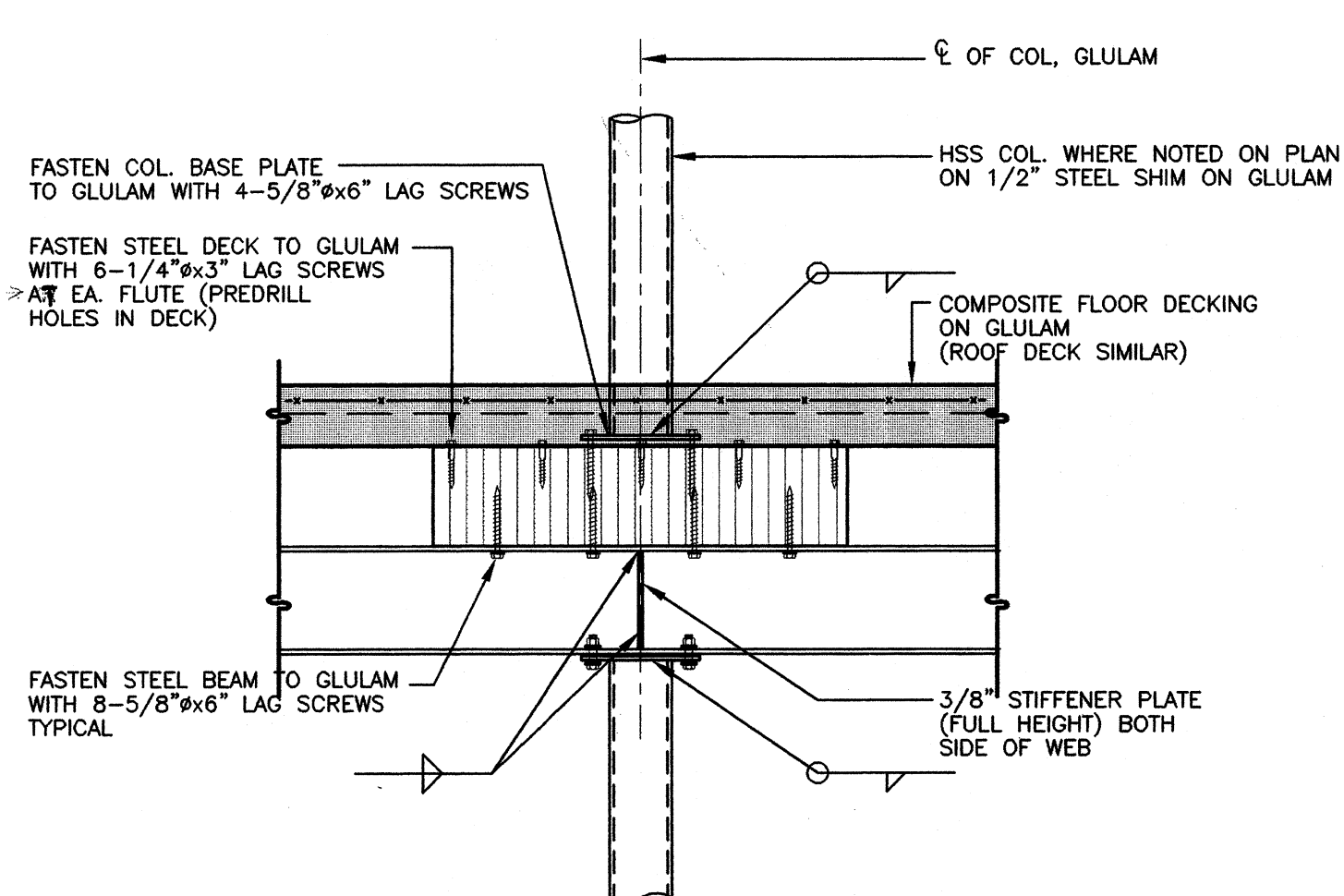
**8 SECTION S02**



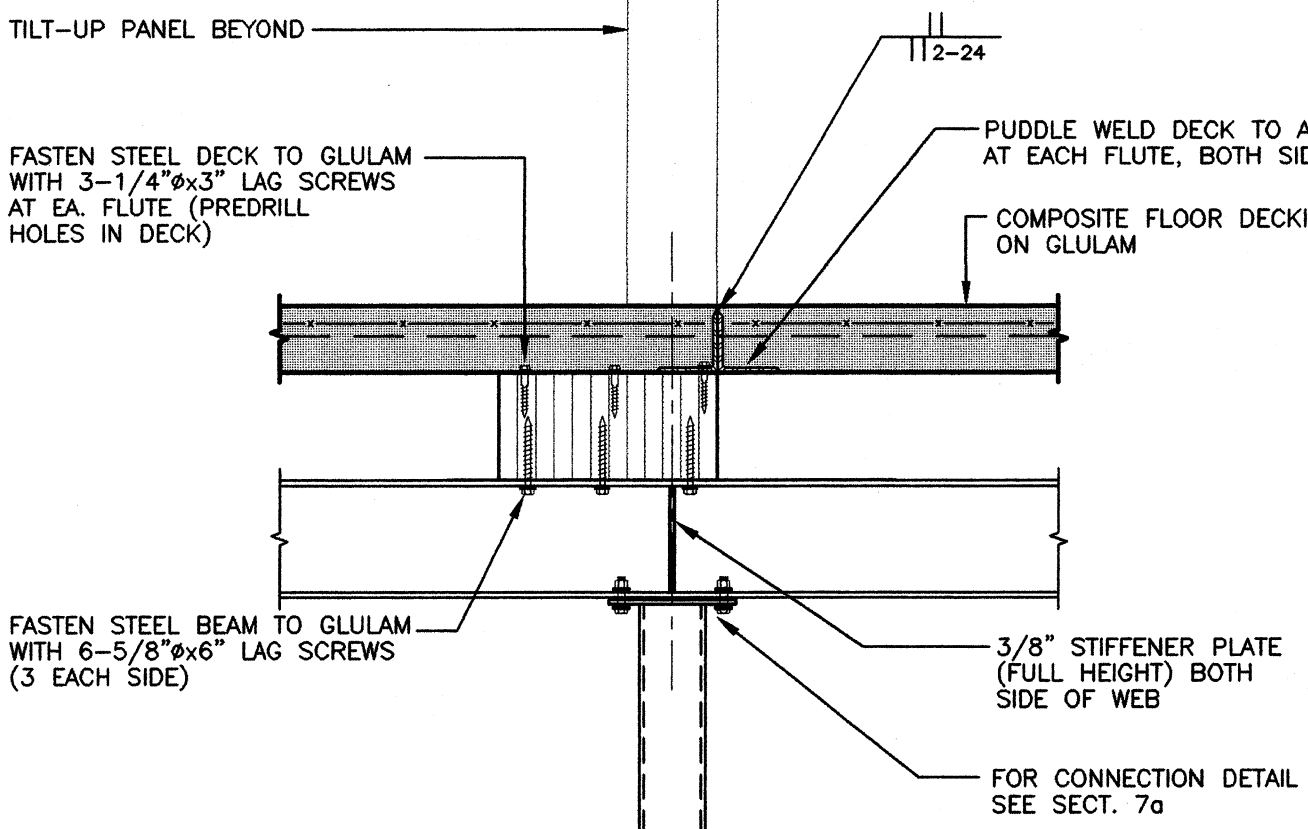
**9 TYPICAL ROOF TOP UNITS AND OPENING SUPPORT DETAIL AT OWSJ**



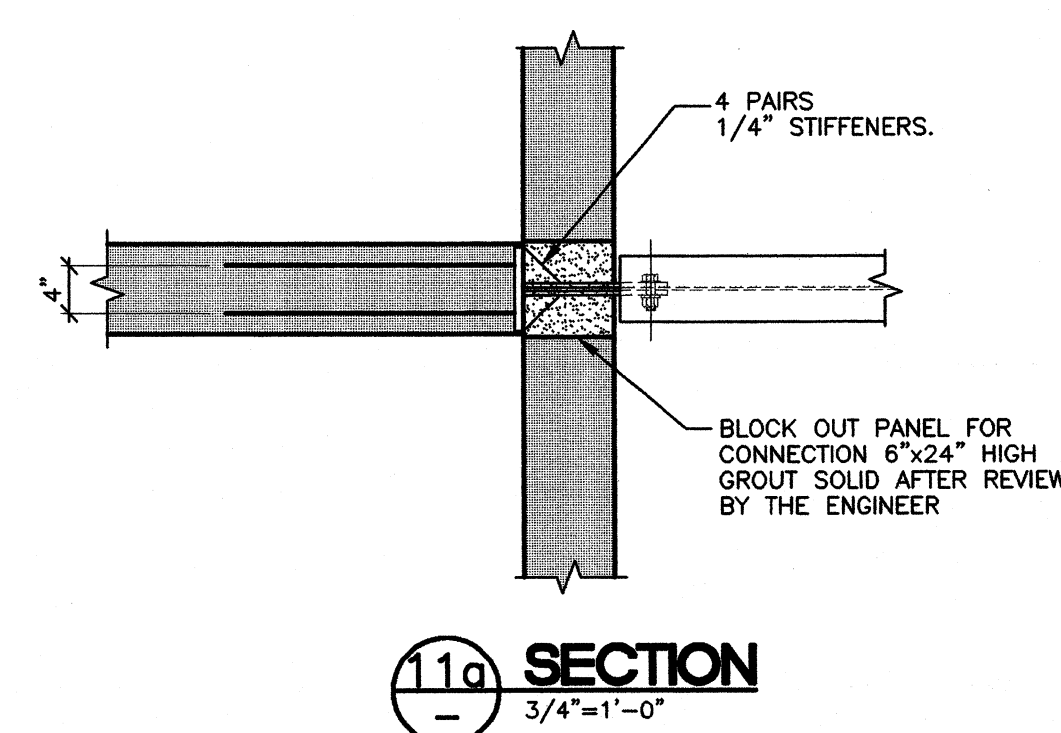
**10 SECTION S04**



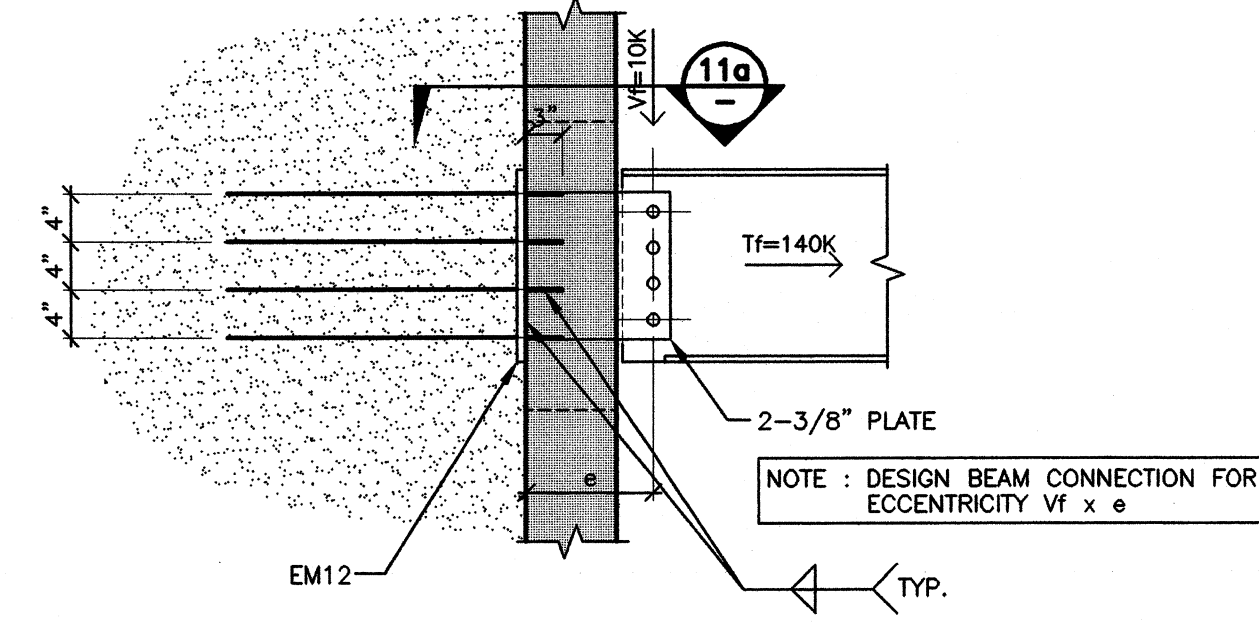
**7a TYP STEEL TO GLULAM BEAM CONNECTION**



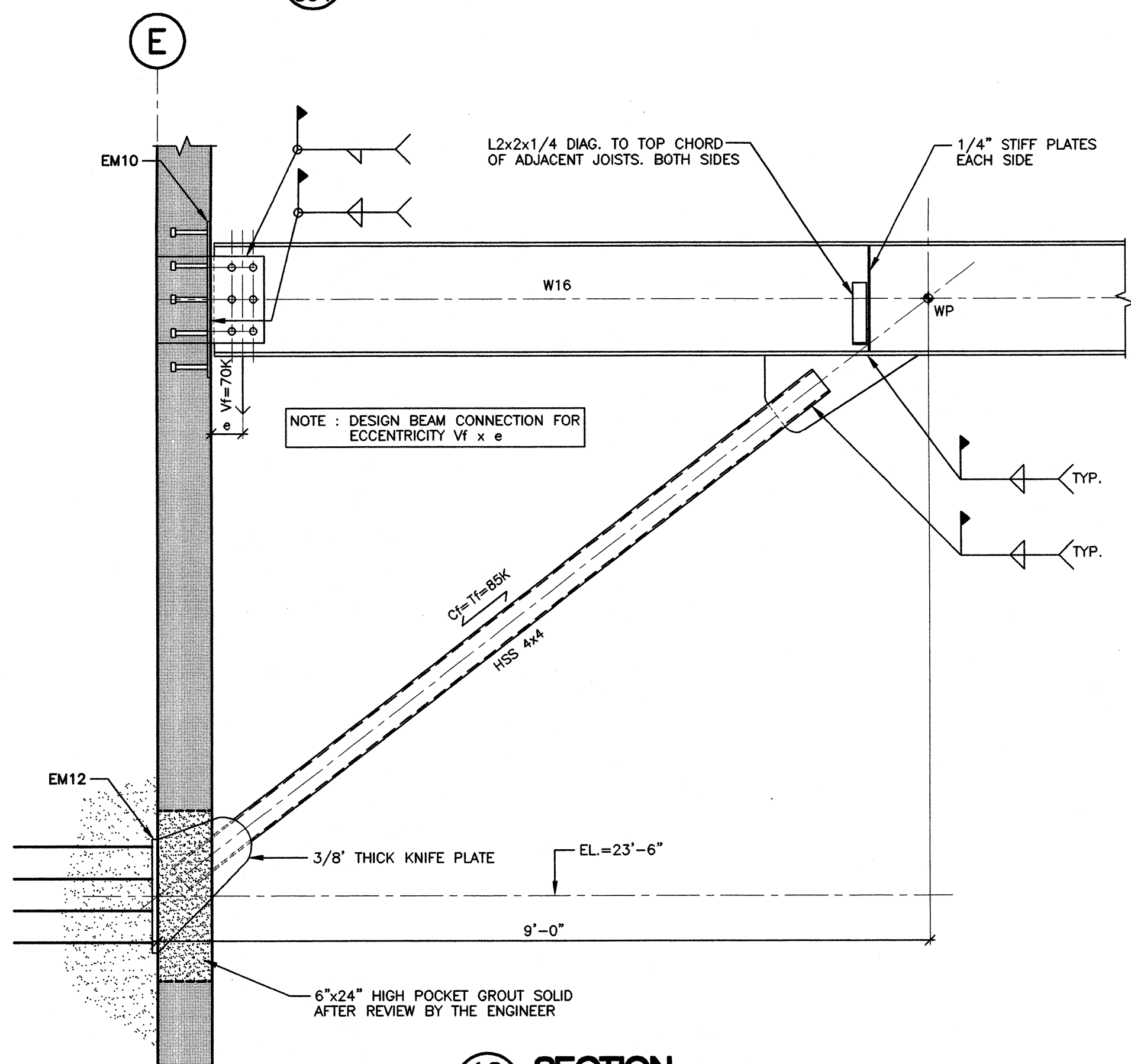
**10 SECTION S03**



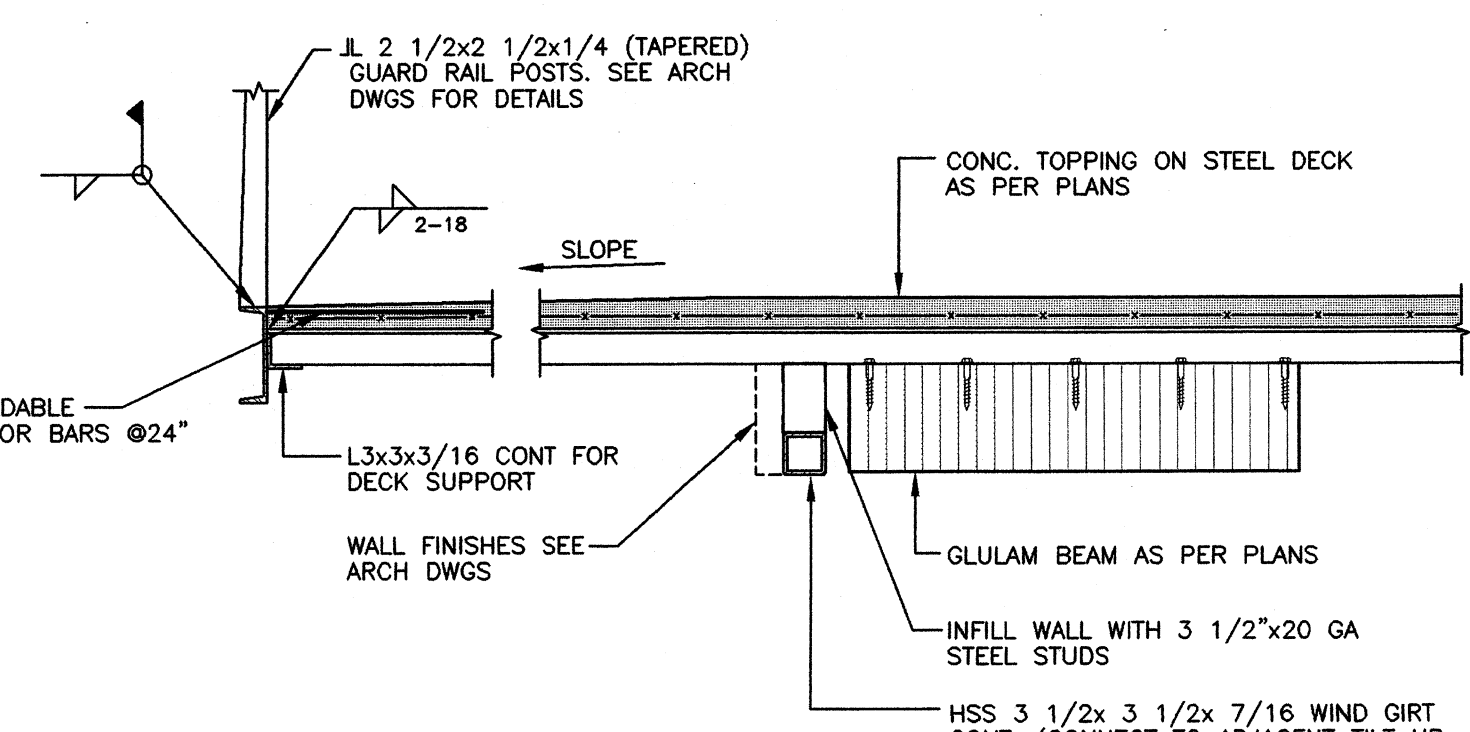
**11a SECTION S04**



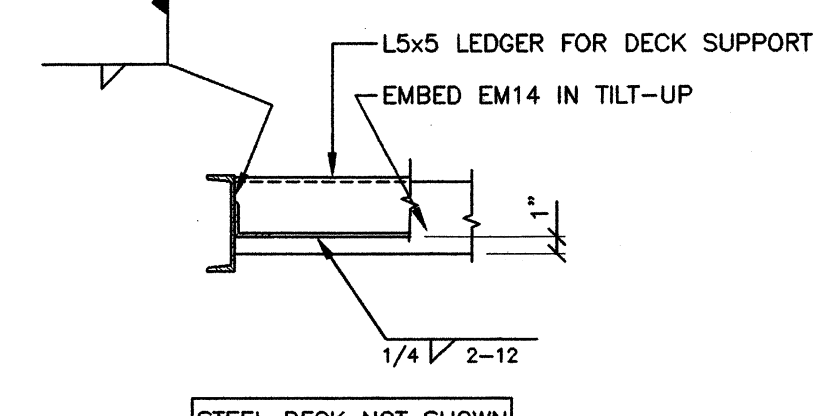
**11 SECTION S04**



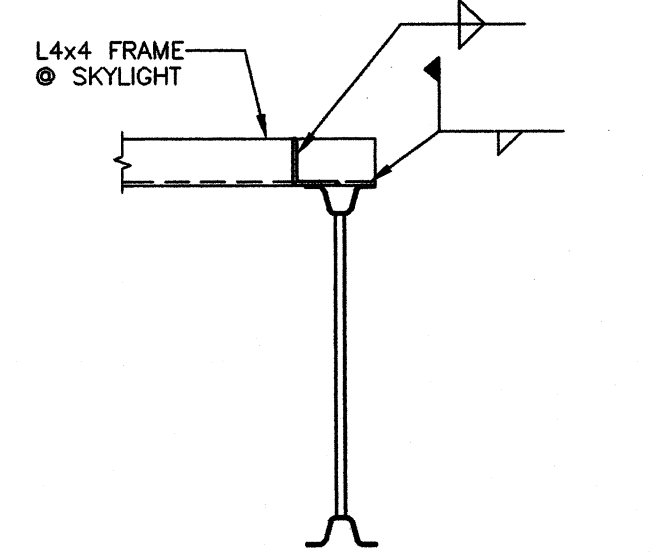
**12 SECTION S04**



**13 SECTION S03**



**14 SECTION S03**



**15 SECTION AT SKYLIGHT**

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**SECTIONS & DETAILS**

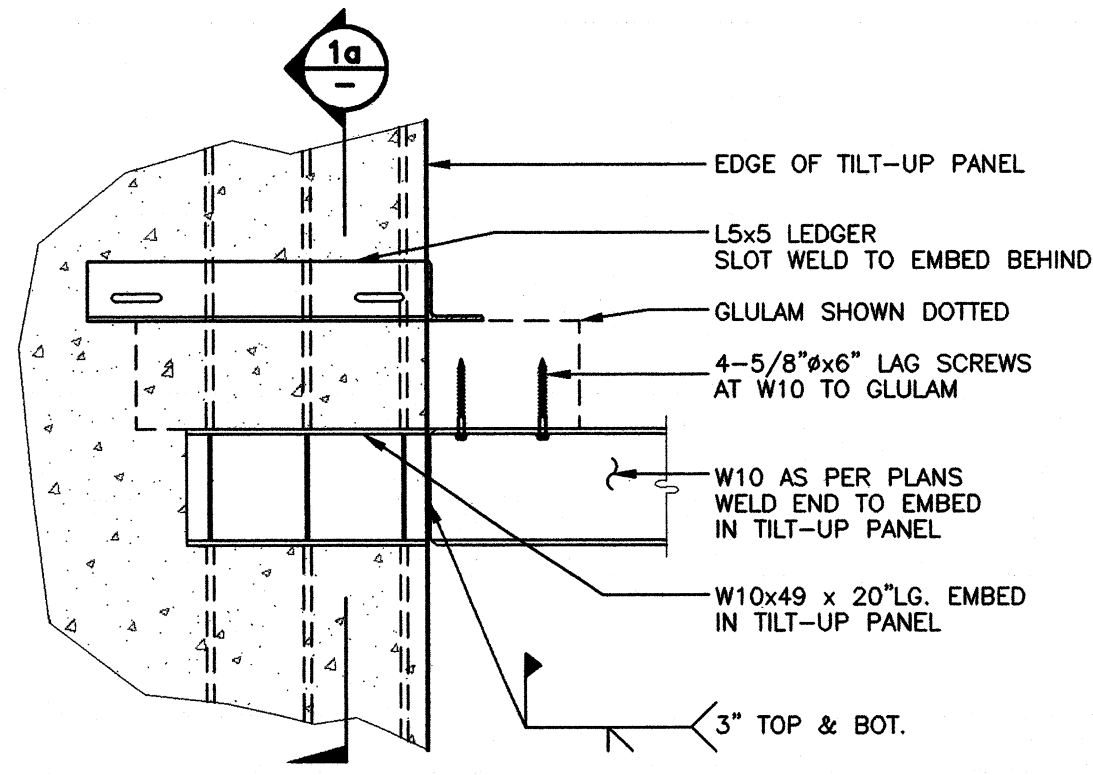
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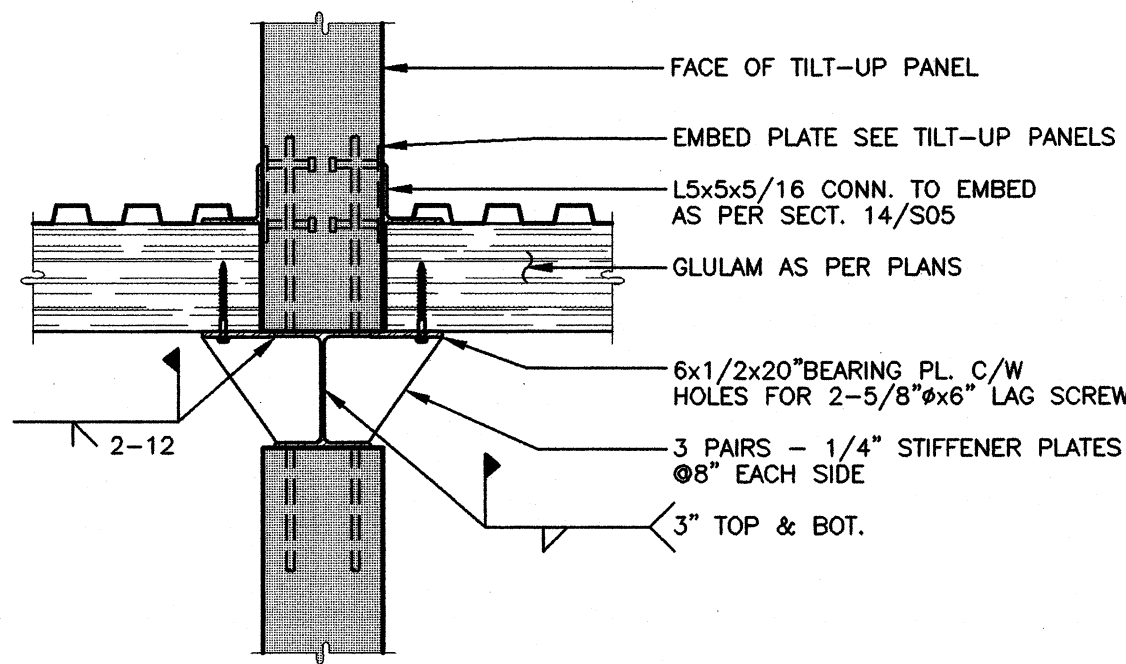
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Department

**S10**

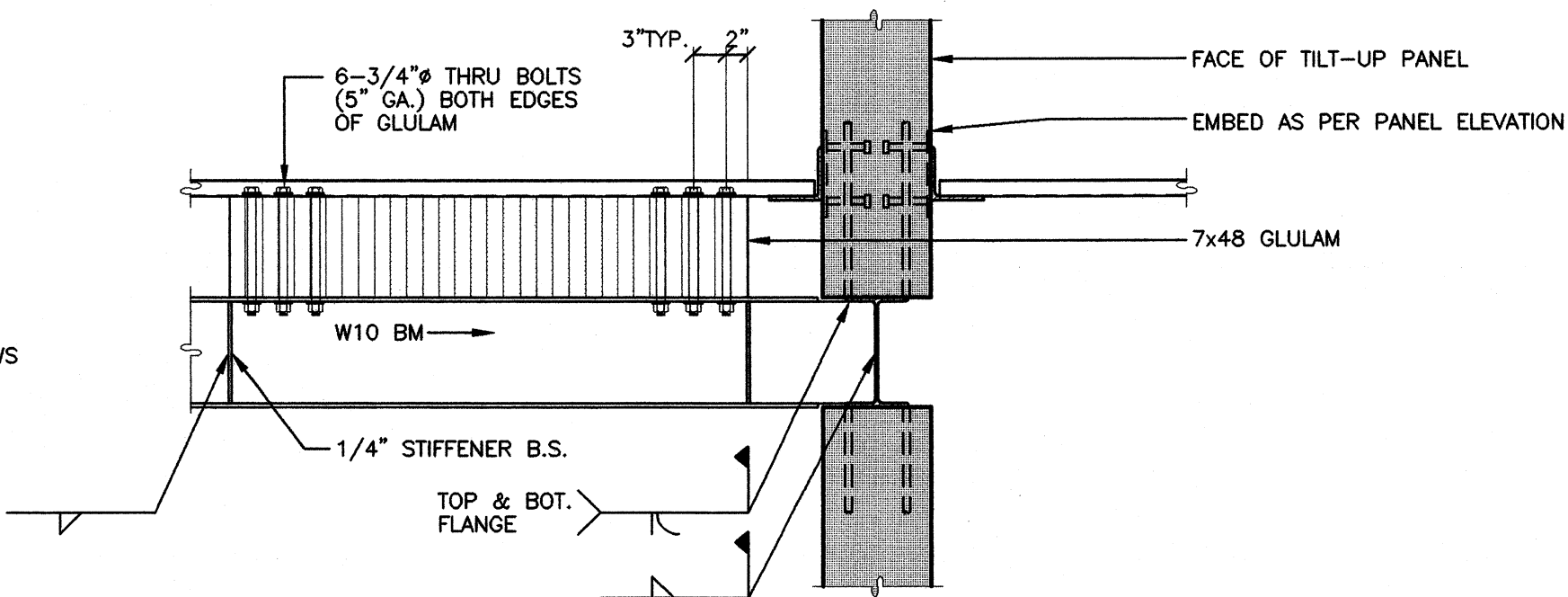
SCALE	PROJECT
AS NOTED	C911
DRAWN	DATE
KJB	JAN.2001



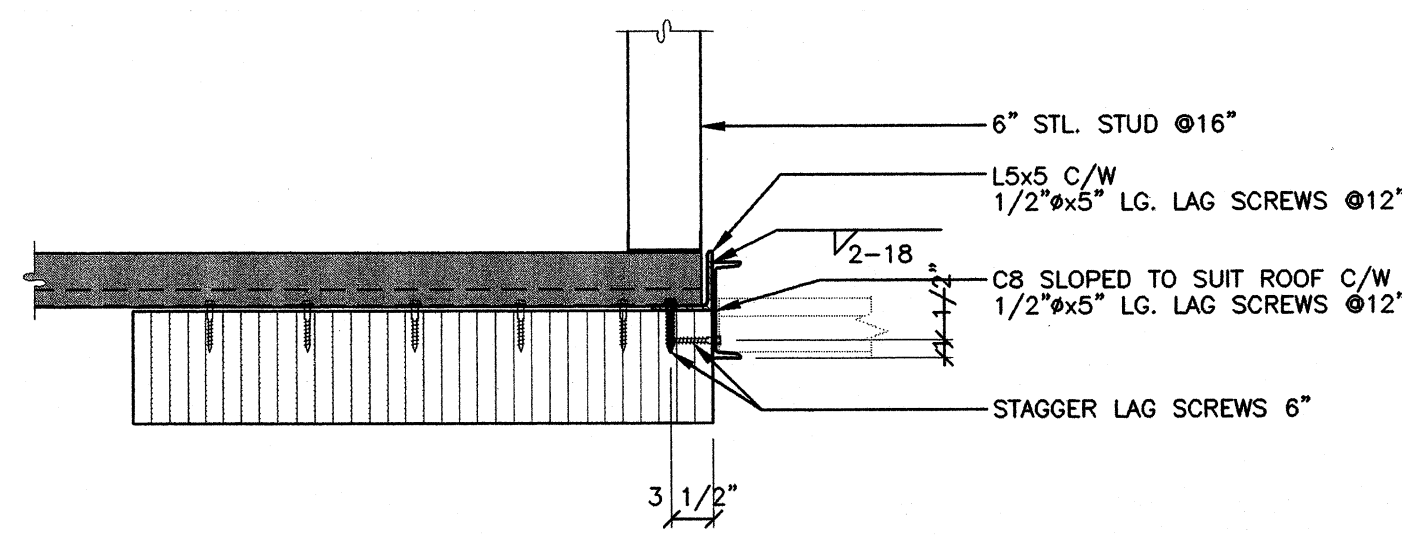
SECTION 1  
S04 3/4" = 1'-0"



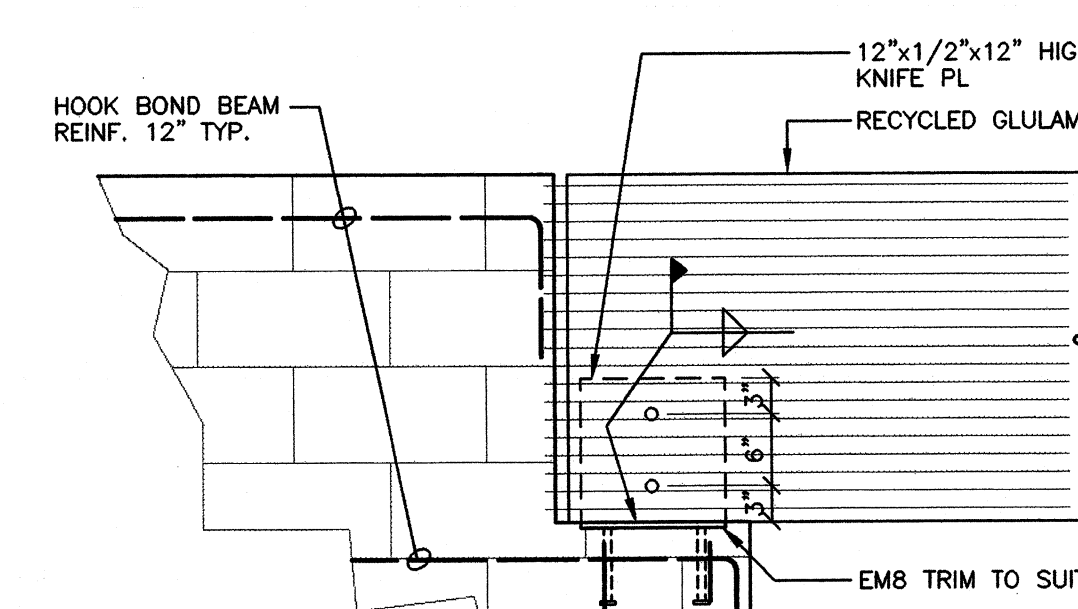
SECTION 1a  
S04 3/4" = 1'-0"



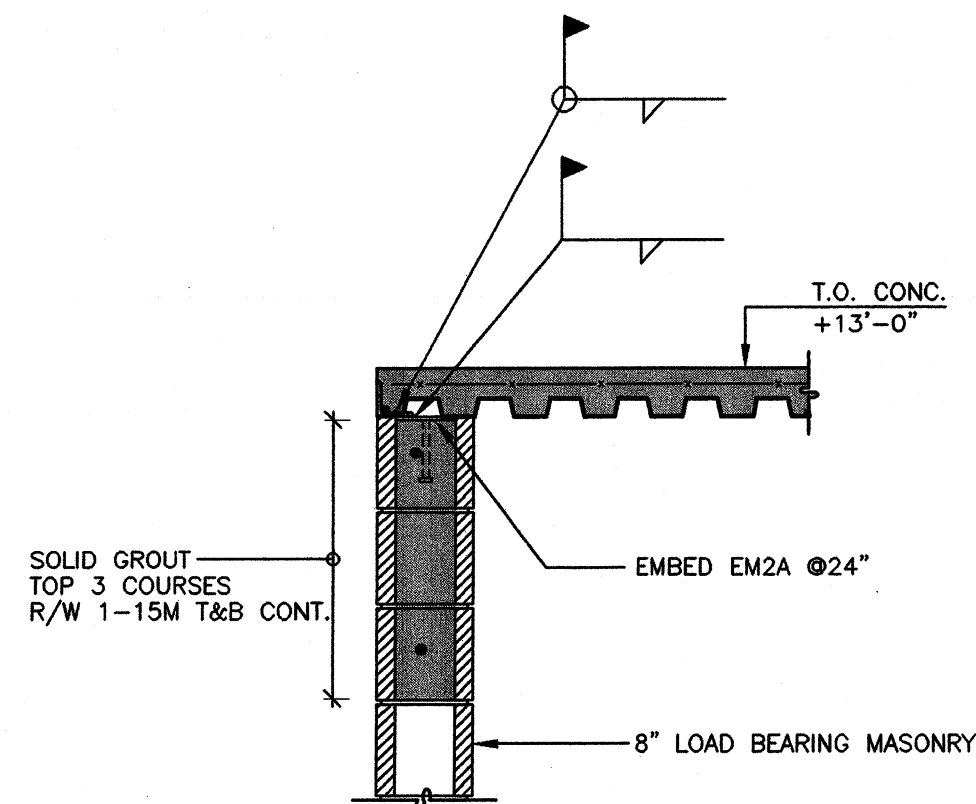
SECTION 2  
S04 3/4" = 1'-0"



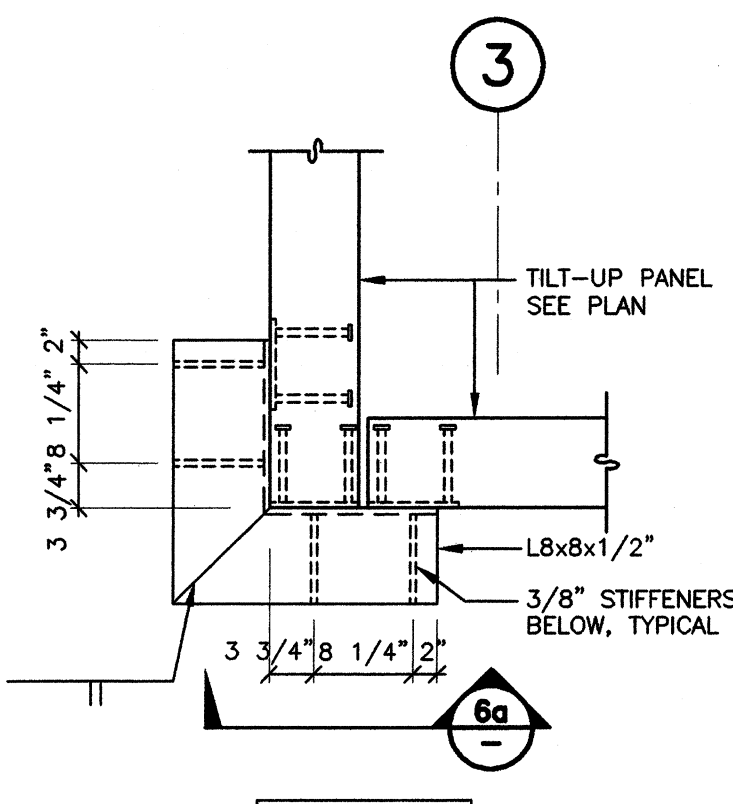
SECTION 3  
S04 3/4" = 1'-0"



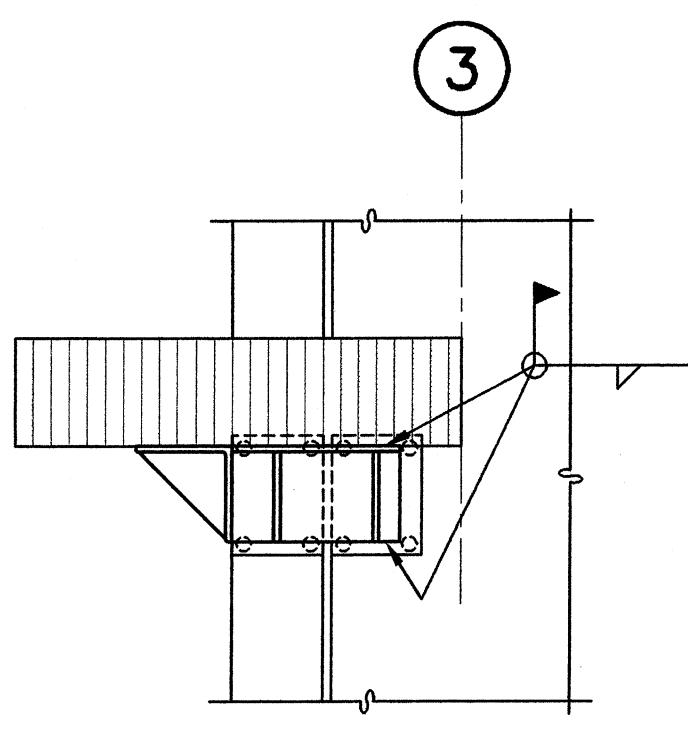
SECTION 4  
S03 3/4" = 1'-0"



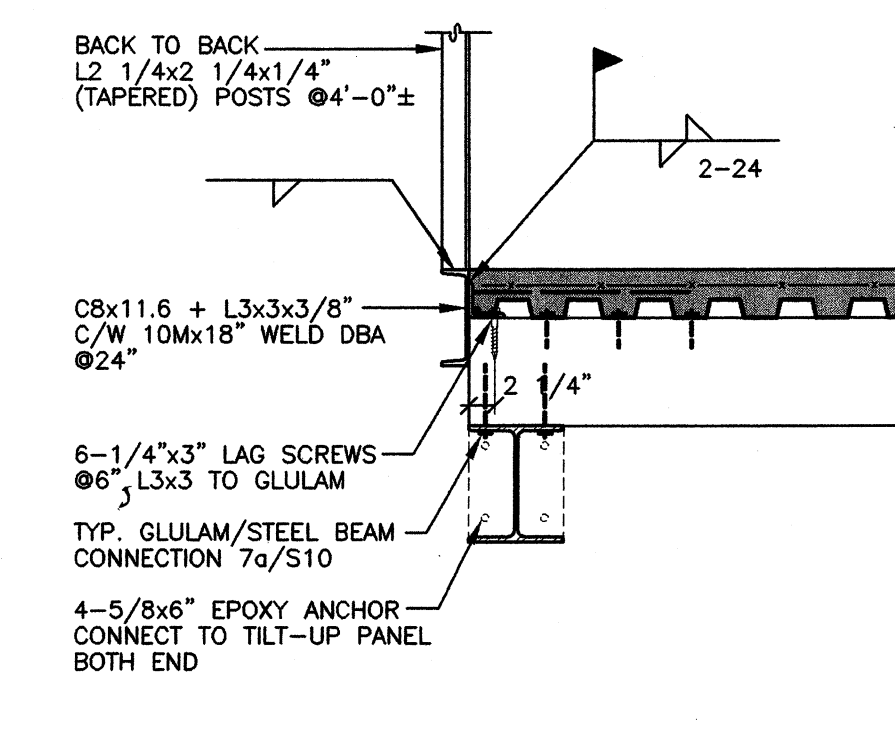
SECTION 5  
S03 3/4" = 1'-0"



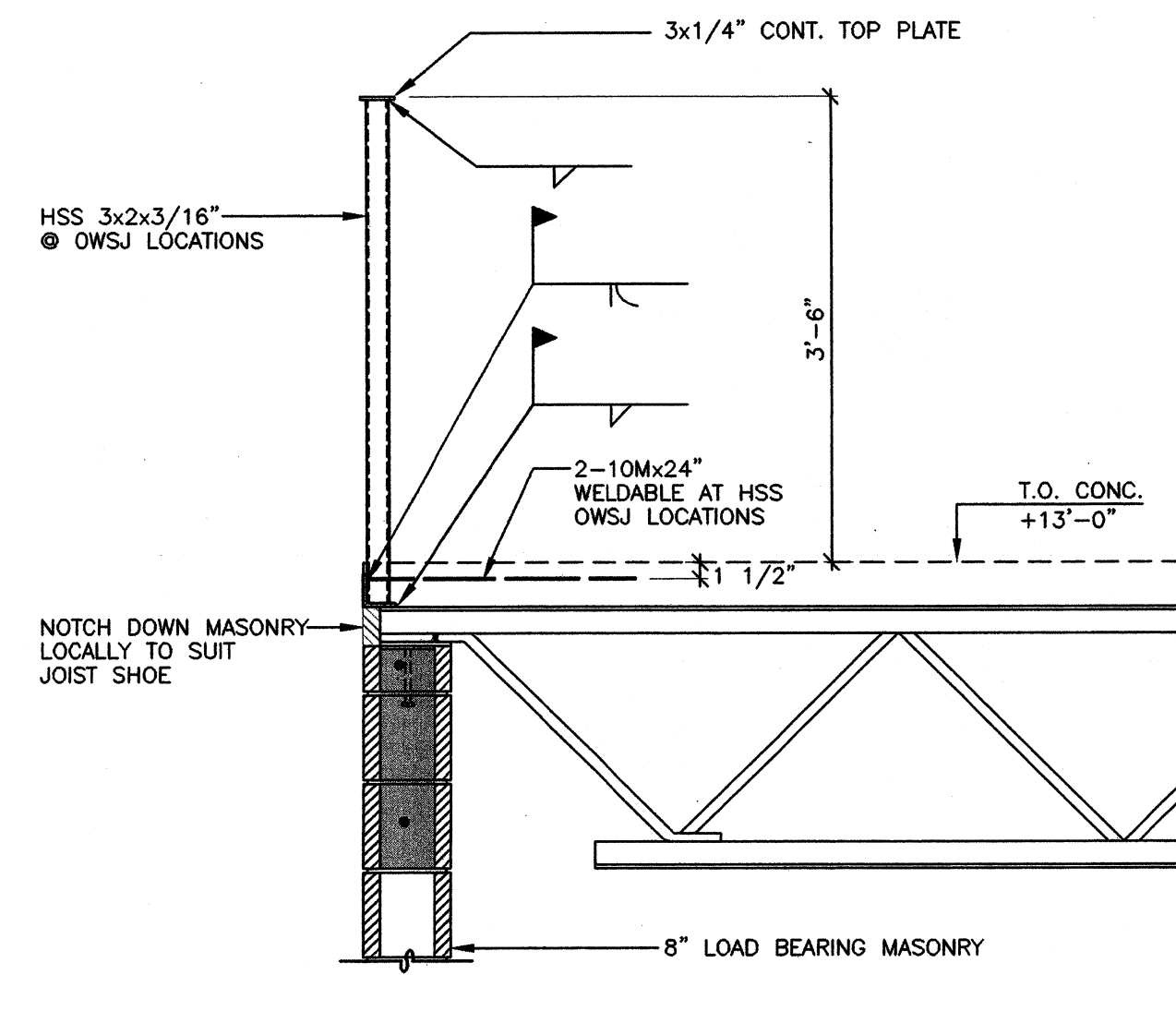
SECTION 6  
S03 3/4" = 1'-0"



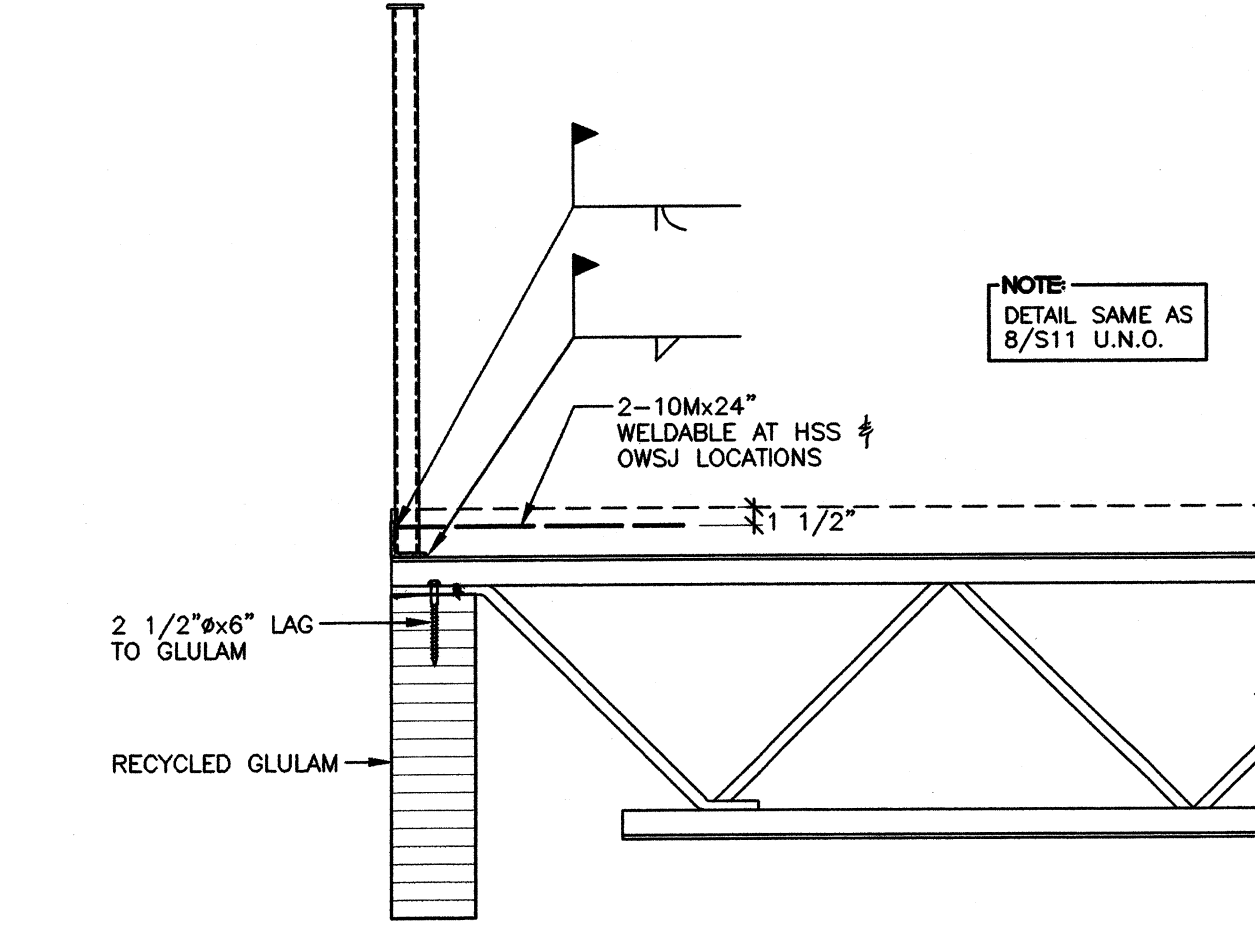
SECTION 6a  
S03 3/4" = 1'-0"



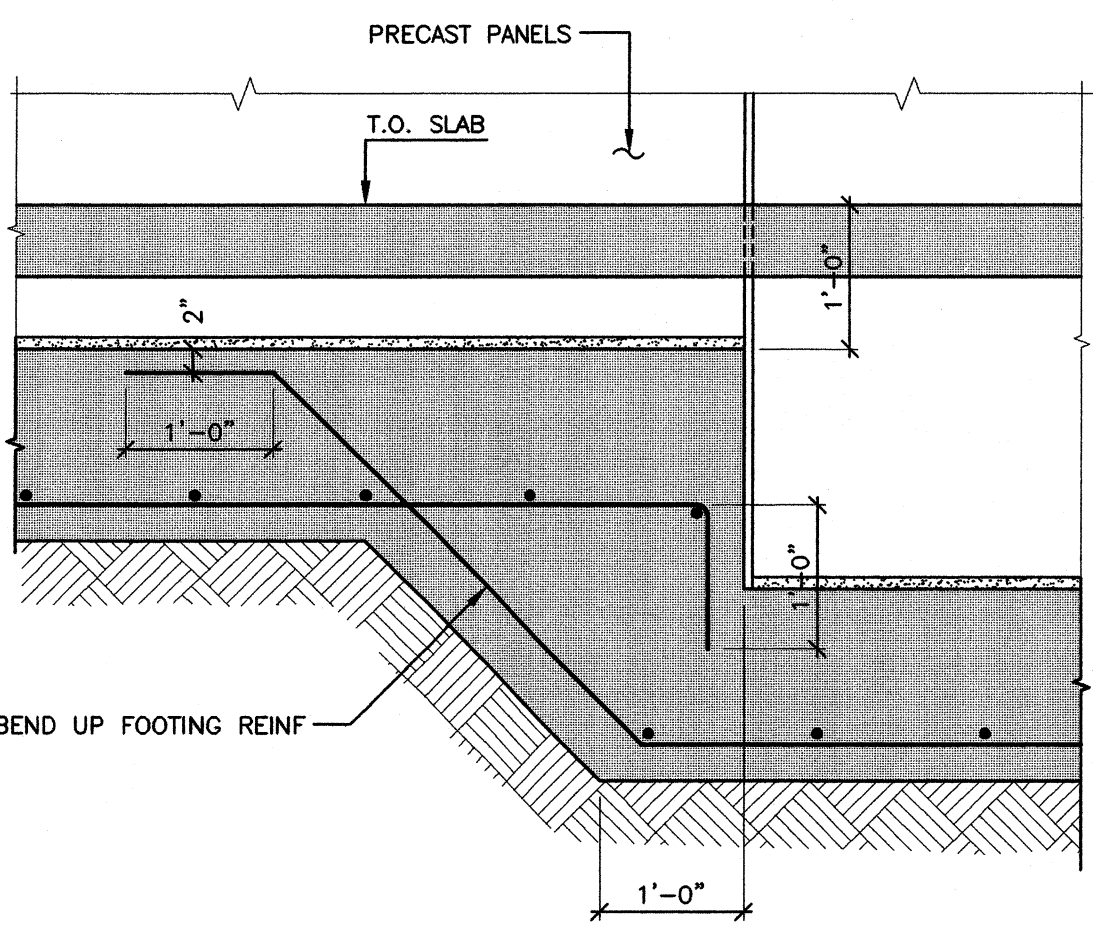
SECTION 7  
S03 3/4" = 1'-0"



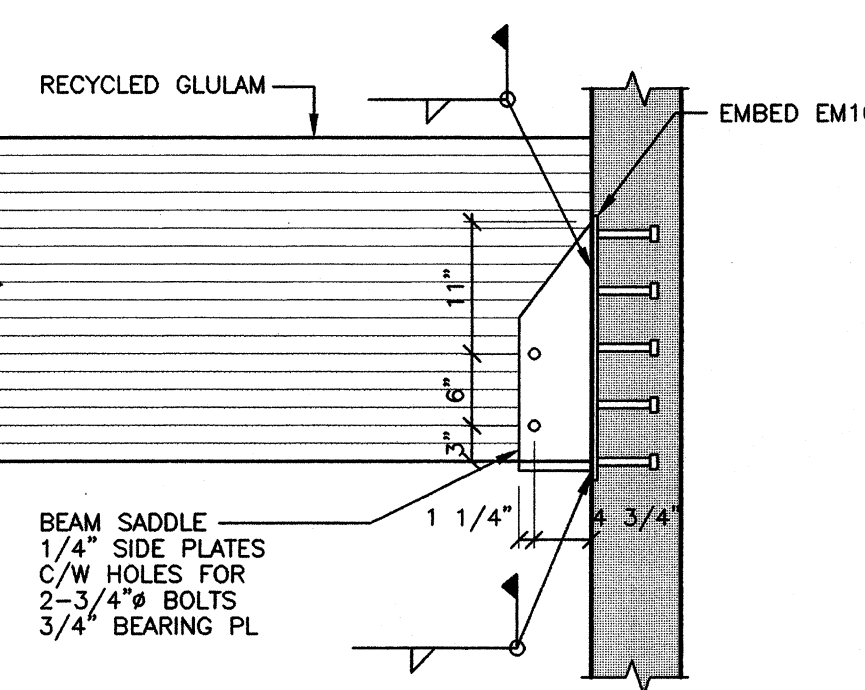
SECTION 8  
S03 3/4" = 1'-0"



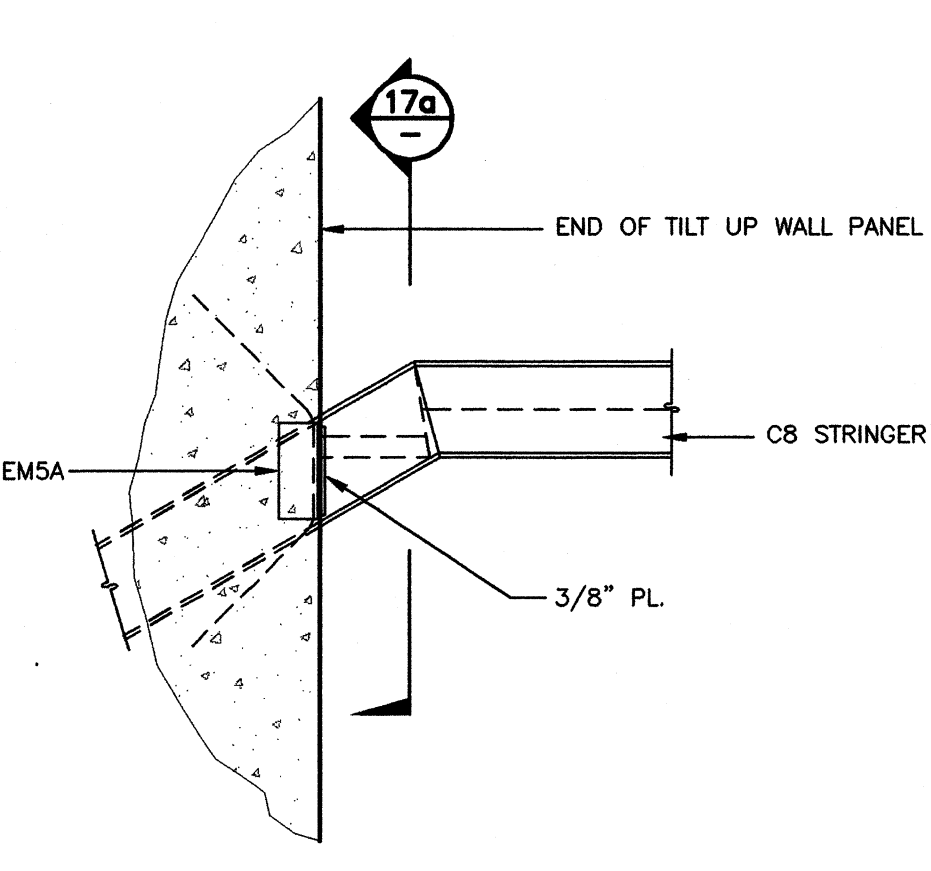
SECTION 9  
S03 3/4" = 1'-0"



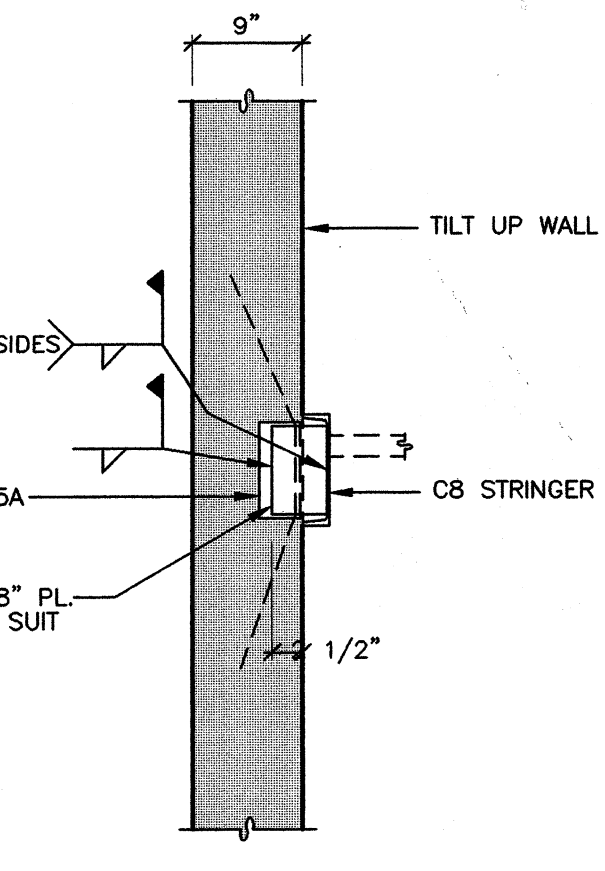
SECTION 11  
S02 3/4" = 1'-0"



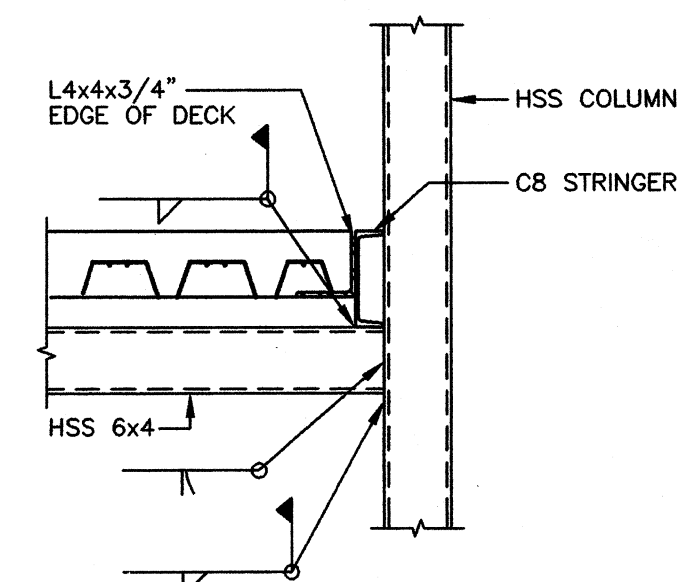
SECTION 10  
S03 3/4" = 1'-0"



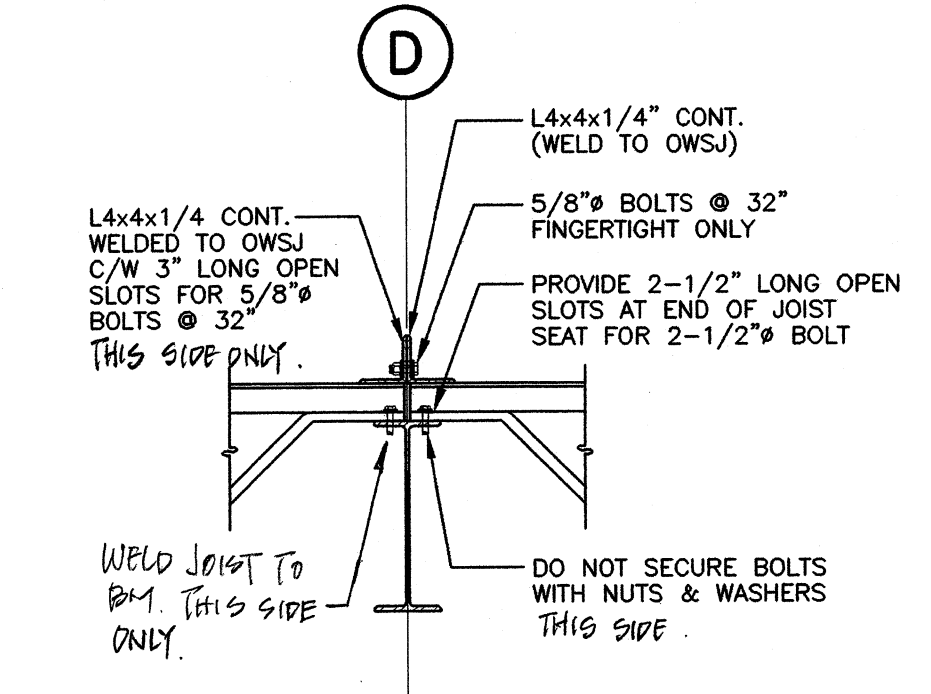
SECTION 17  
S03 3/4" = 1'-0"



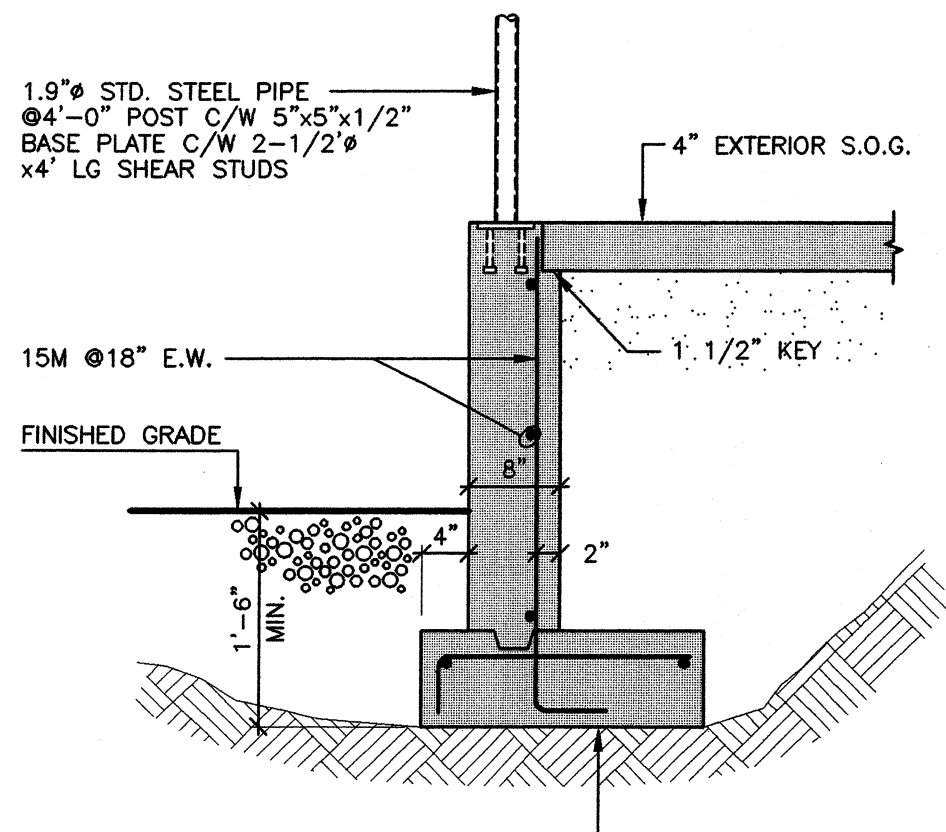
SECTION 17a  
S03 3/4" = 1'-0"



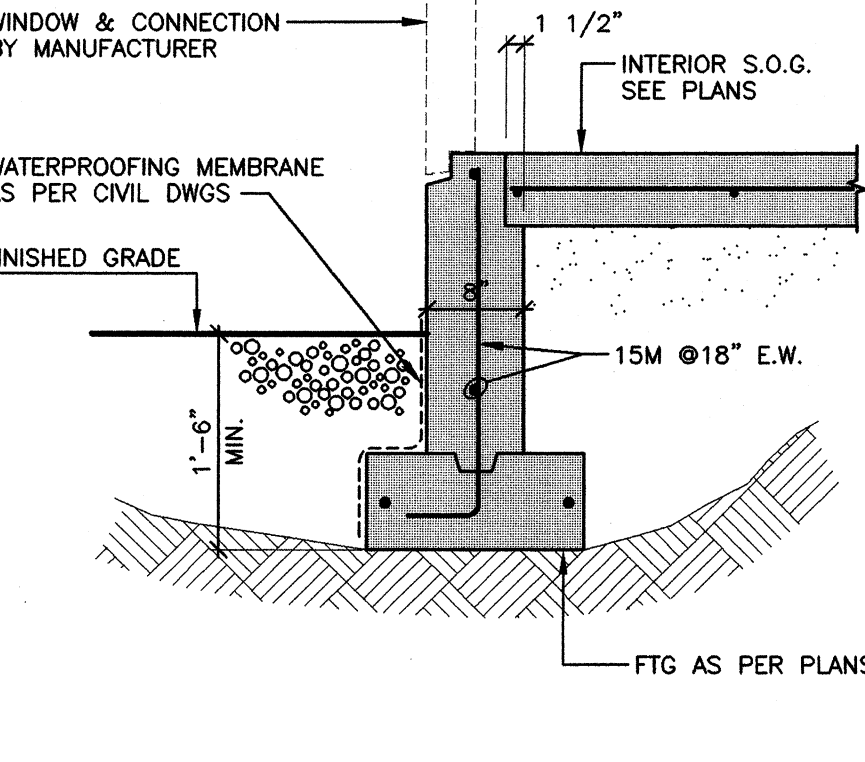
SECTION 18  
S03 3/4" = 1'-0"



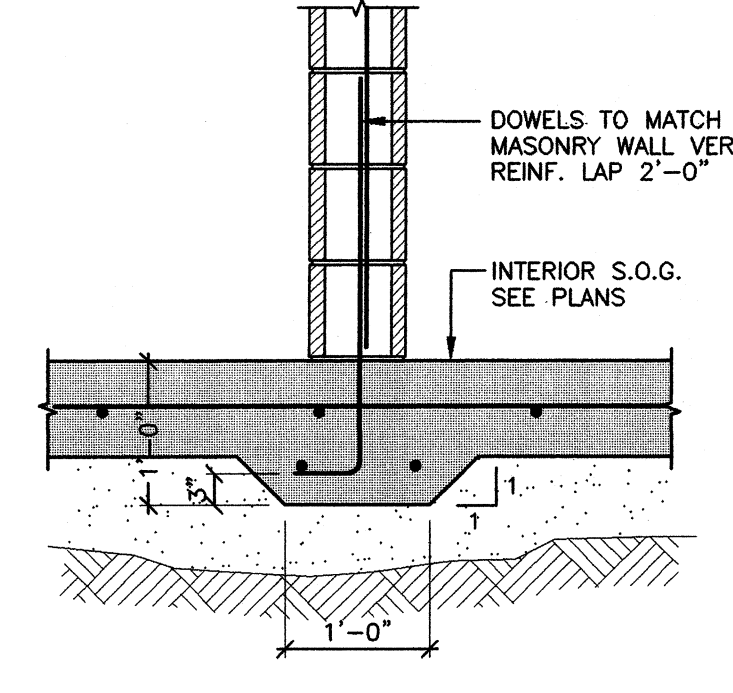
SECTION 19  
S03 3/4" = 1'-0"



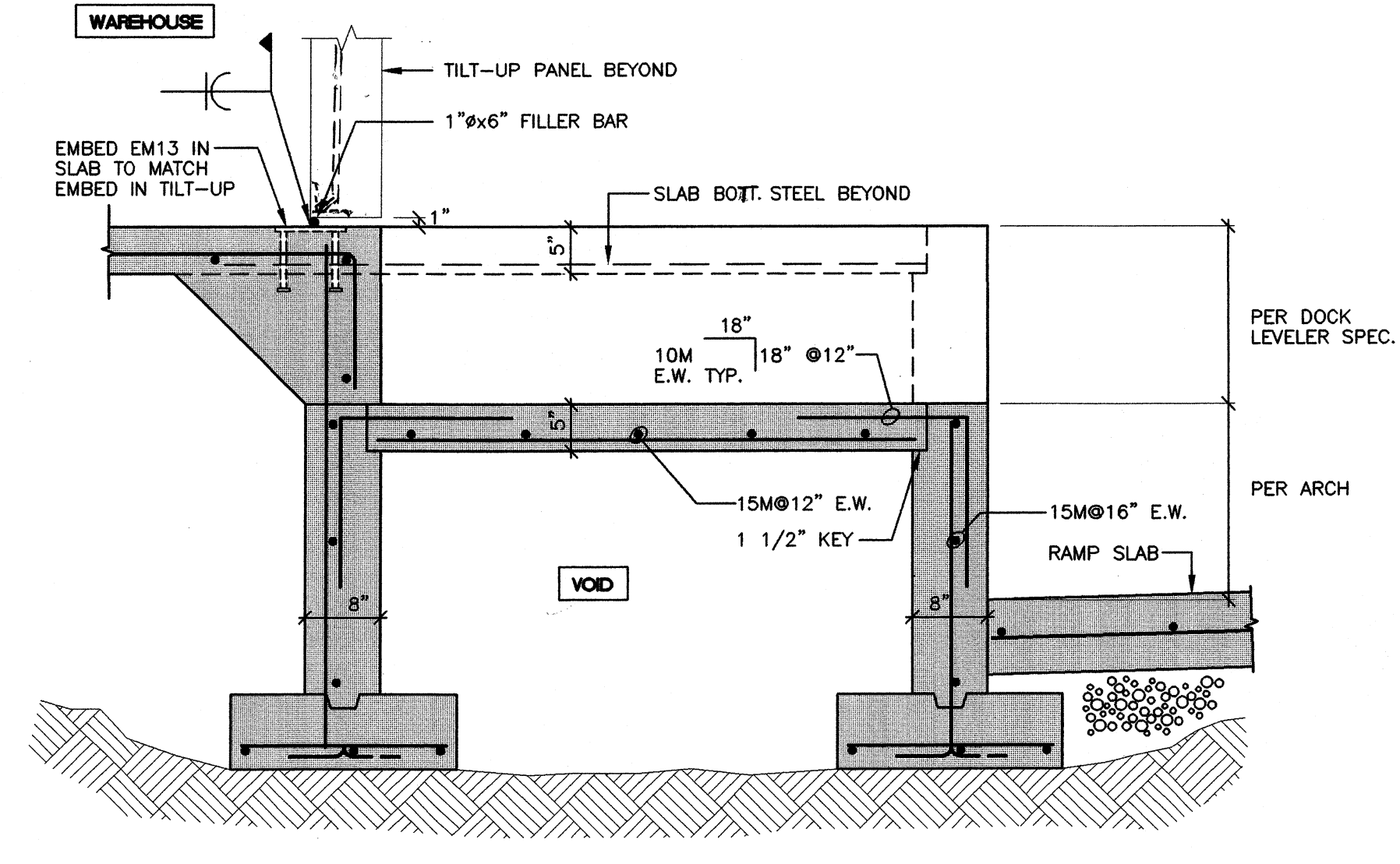
SECTION 12  
S02 3/4" = 1'-0"



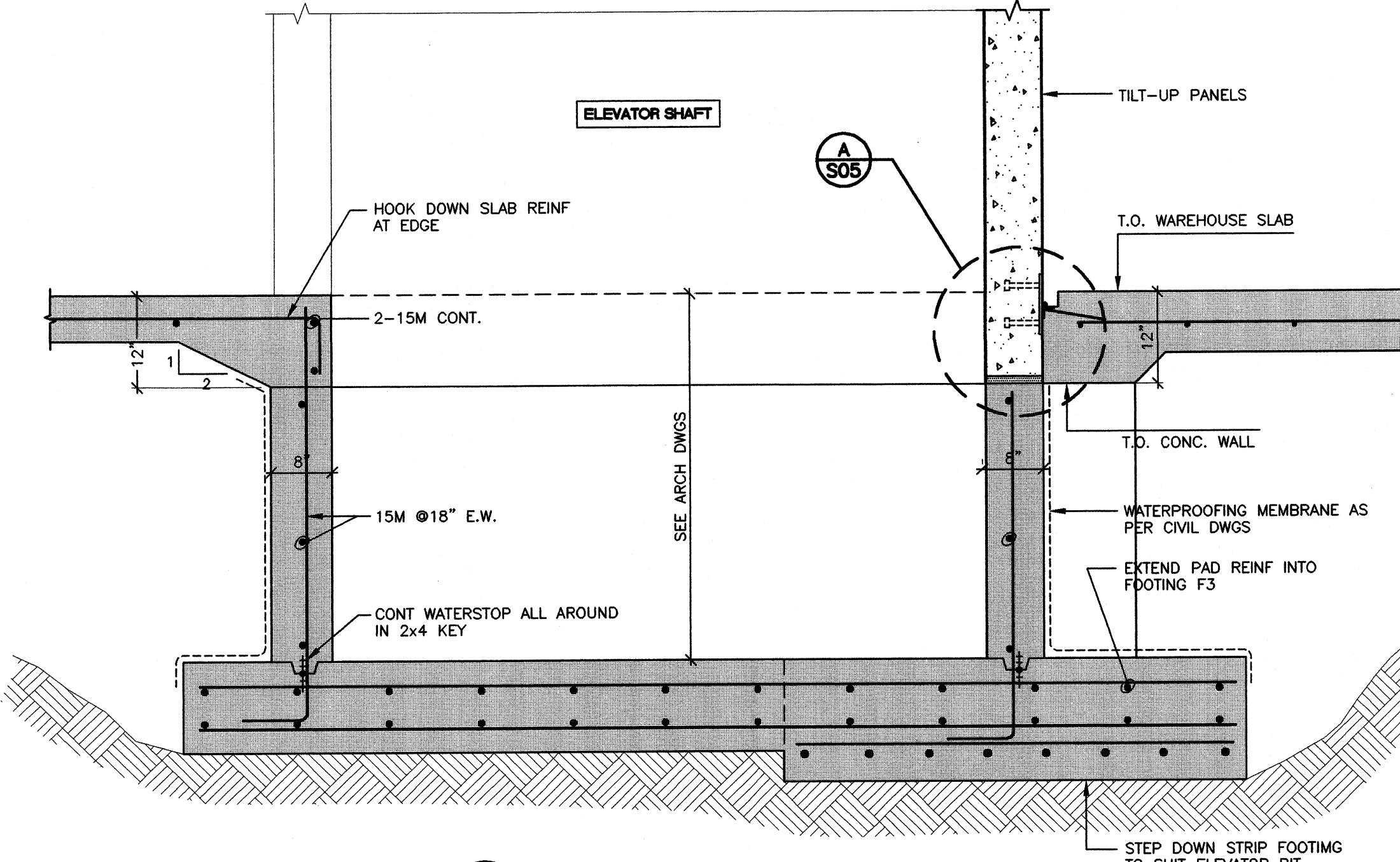
SECTION 13  
S02 3/4" = 1'-0"



SECTION 14  
S02 3/4" = 1'-0"

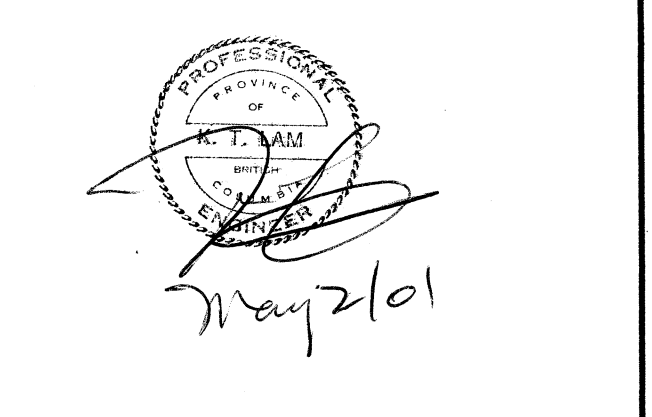


SECTION 15  
S02 3/4" = 1'-0"



SECTION 16  
S02 3/4" = 1'-0"

NO	DATE	REVISIONS
-	APR.30/01	ISSUED FOR TENDER

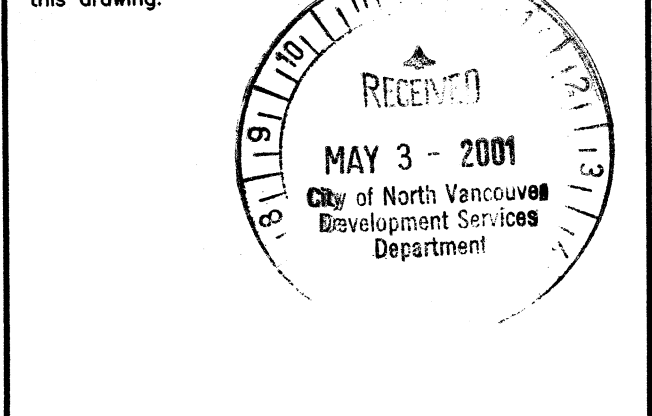


Maxem Holdings Inc.  
Office/ Warehouse  
758 Harbourside Drive  
North Vancouver, B.C.

SECTIONS & DETAILS

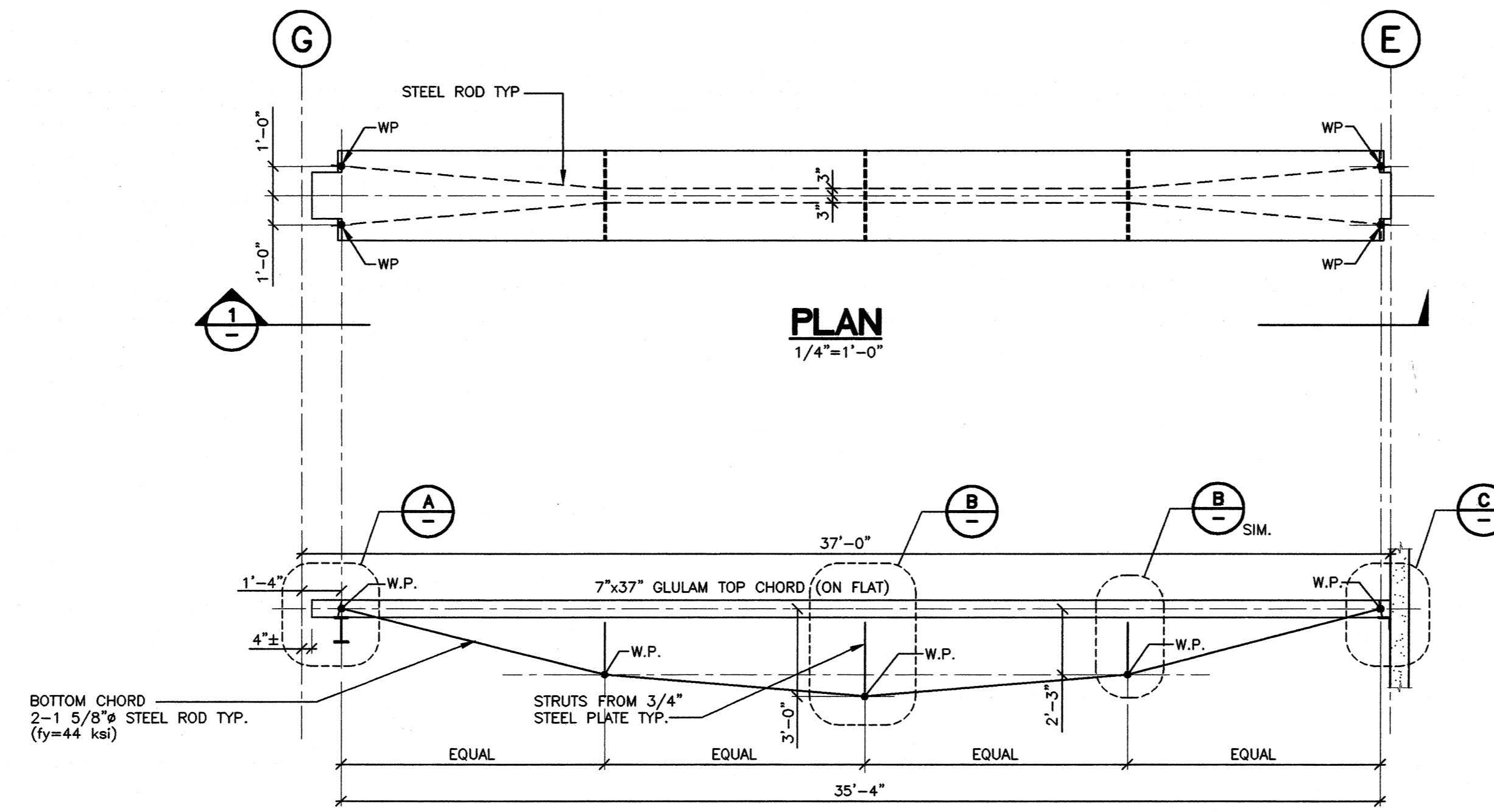
CONSULTANT  
Fast+Epp  
structural engineers  
Suite 201  
1672 West 1st Ave T 604 731 7412  
Vancouver BC F 604 731 7620  
Canada V6J 1G1 mail@fastepp.com

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S11

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AS NOTED	C911
DRAWN	DATE
KJB	JAN.2001

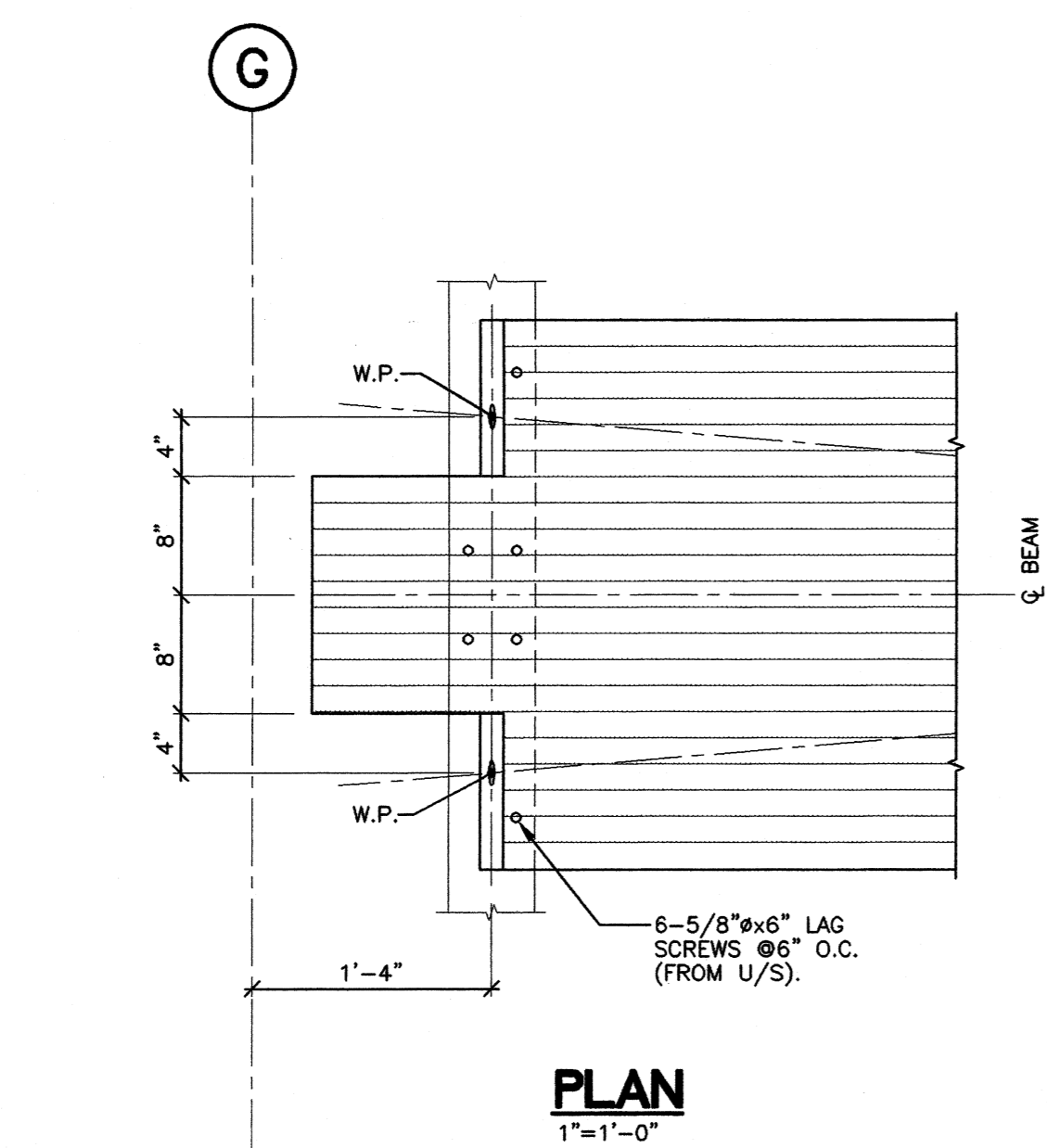


**1 TYP. COMPOSITE GLULAM/STEEL TRUSS (ELEVATION)**  
 S04 1/4"=1'-0"

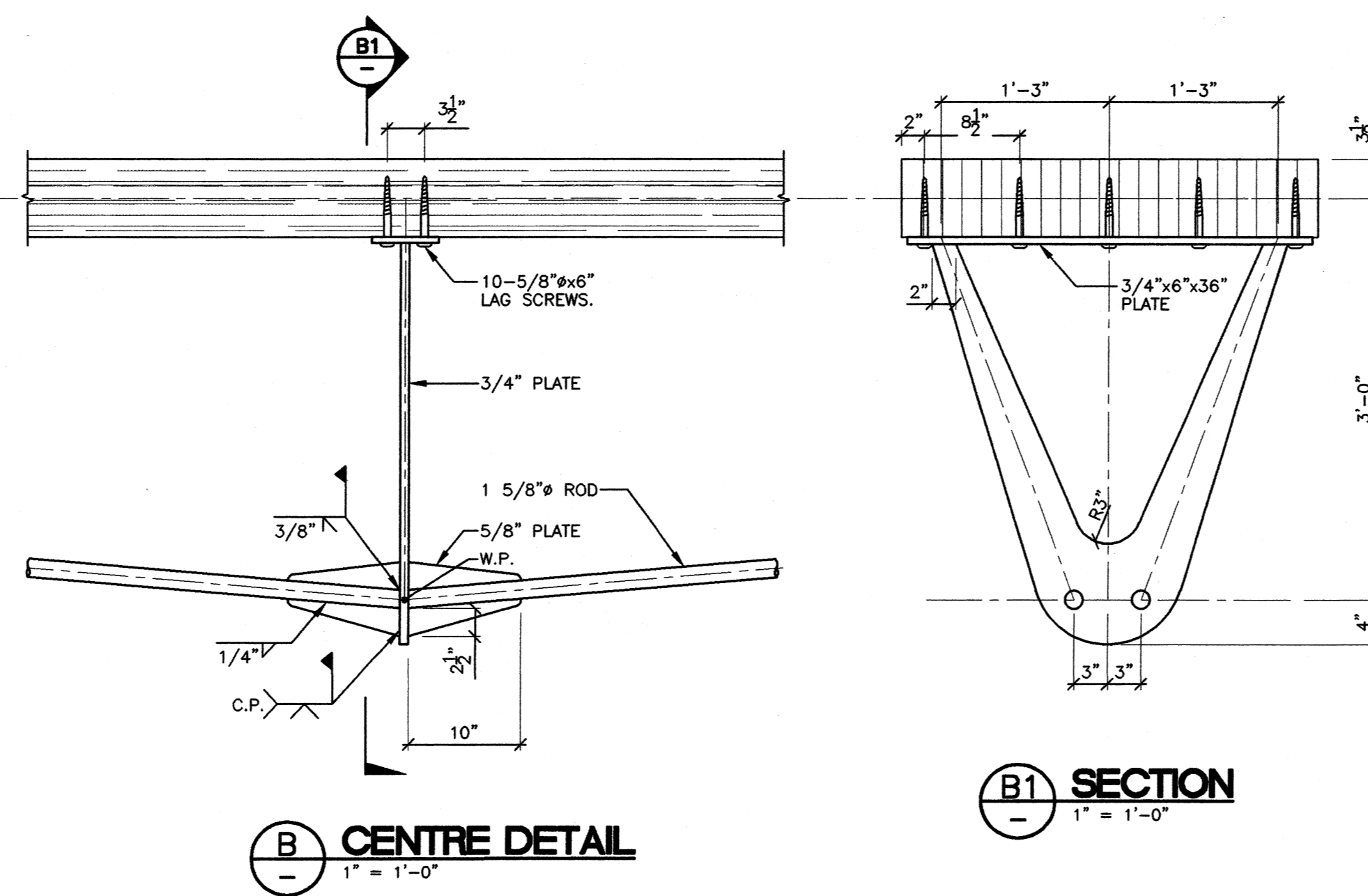
**NOTES TO CUSTOM TRUSSES:**

- TRUSS CONTRACTOR TO CHECK AND CONFIRM ALL DIMENSIONS PRIOR TO FABRICATION, INCLUDING COORDINATION WITH STEEL SHOP DRAWINGS, AND AS-BUILT LOCATIONS OF SUPPORTS AND ADJACENT STRUCTURES. SUBMIT STEEL TIE-BACK DRAWINGS FOR REVIEW BY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION.
- ALL GLULAM MEMBERS TO BE SAND FINISHED AND TO BE FREE OF STAINING, GRADE STAMPS, ETC. STORE TIMBER UNDER COVER AND PROTECT FROM DAMAGE & STAINING.
- ALL STEEL TO BE 300W (44ksi) IN ACCORDANCE WITH GENERAL NOTES ON DRAWING S1. WELD TO BE FULL STRENGTH PREPARED WELDS.
- REFER TO GENERAL NOTES AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- ALL STEEL HARDWARE TO BE PAINTED OR GALVANIZED IN ACCORDANCE WITH ARCHITECTS SPECIFICATIONS.
- ALL WORK TO BE ARCHITECTURAL QUALITY, INCLUDING PRECISION CUTTING AND FITTING, STEEL WELDING, ETC. TAKE PRECAUTIONS TO AVOID DAMAGE AND STAINING OF WOOD DURING CONSTRUCTION PROCESS.
- WORK POINTS SHOWN ARE TO CENTRELINE OF MEMBERS UNLESS OTHERWISE NOTED.
- WASHERS & COUNTERSUNK HOLES FOR RODS/BOLTS (AS APPLICABLE) TO BE AS FOLLOWS:  

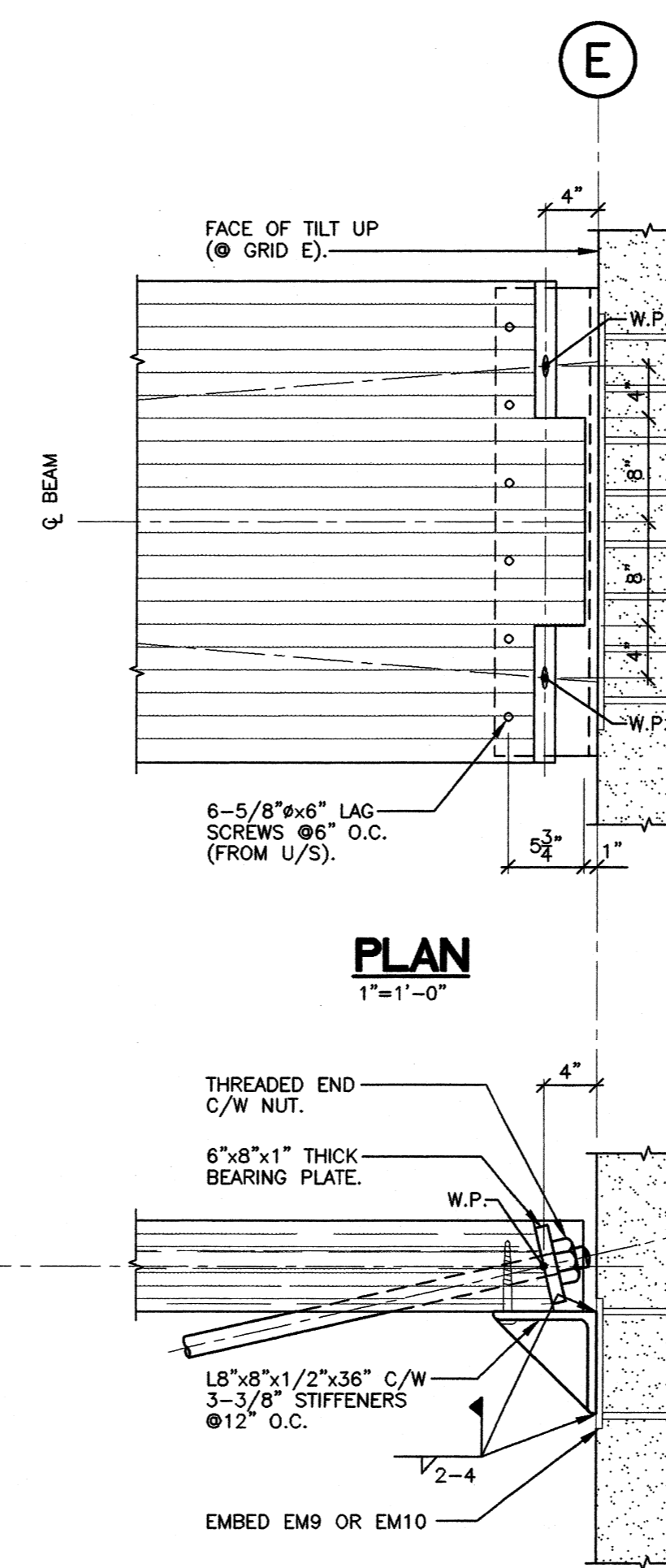
ROD/BOLT	WASHER SIZE	COUNTERSINK
5/8" & 3/4"	2 1/2" x 1/4"	BEARING ON WOOD
5/8" & 3/4"	1" x 3/16"	BEARING ON STEEL
- PRE-DRILL FOR ALL LAG SCREWS WITH HOLES PER CSA-086
- WHERE PRACTICAL, SHOP FIT INITIALLY FABRICATED MEMBERS EARLY DURING FABRICATION ON A TRIAL BASIS. REVIEW WITH ENGINEER PRIOR TO PROCEEDING FURTHER.



**A END DETAIL**  
 1"=1'-0"

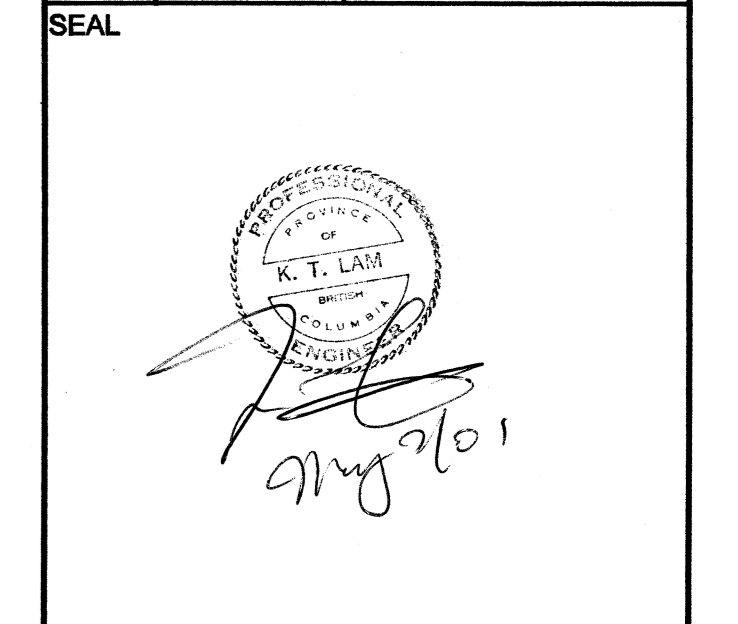


**B CENTRE DETAIL**  
 1"=1'-0"



**C END DETAIL**  
 1"=1'-0"

NO	DATE	REVISIONS
-	APR.30/01	ISSUED FOR TENDER
-	FEB.21/01	ISSUED FOR BUILDING PERMIT

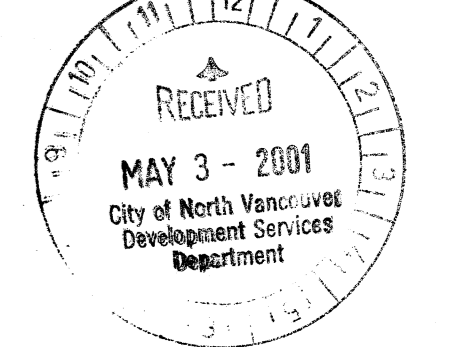


**Maxem Holdings Inc.**  
**Office/ Warehouse**  
 758 Harbourside Drive  
 North Vancouver, B.C.

**COMPOSITE TRUSS DETAILS**

**CONSULTANT**  
**Fast+Epp**  
 structural engineers  
 Suite 201  
 1672 West 1st Ave T 604 731 7412  
 Vancouver BC F 604 731 7620  
 Canada V6J 1G1 mail@fastepp.com

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**S12**

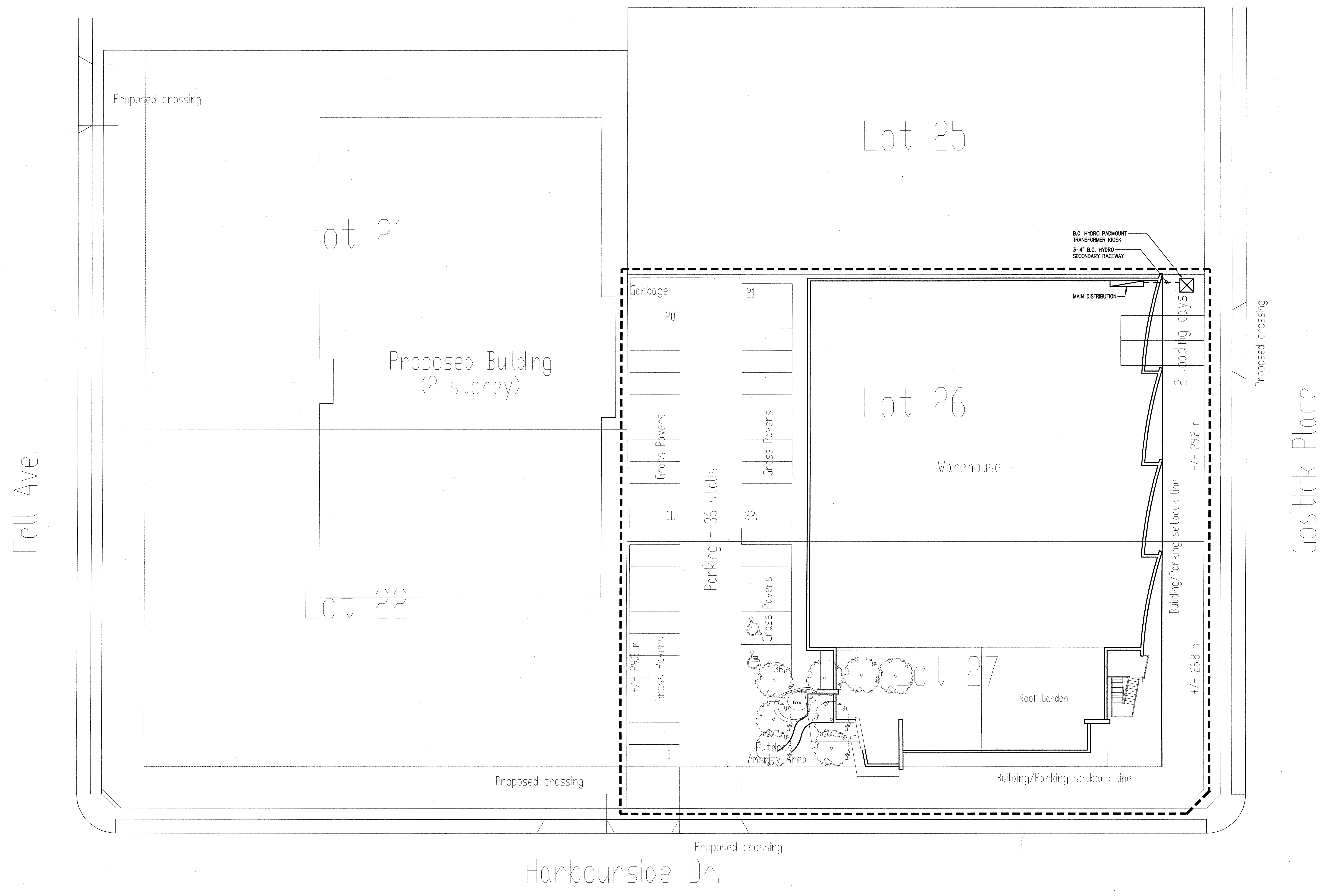
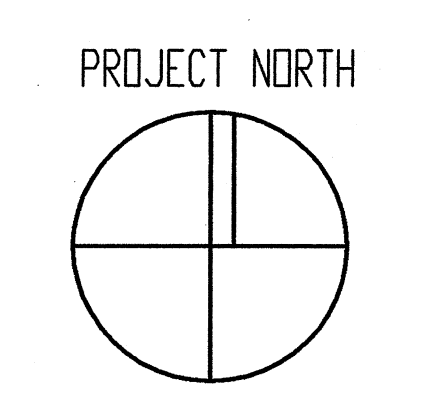
SCALE	PROJECT
AS NOTED	C911
DRAWN	DATE
KJB	JAN.2001

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**SITE PLAN - ELECTRICAL**

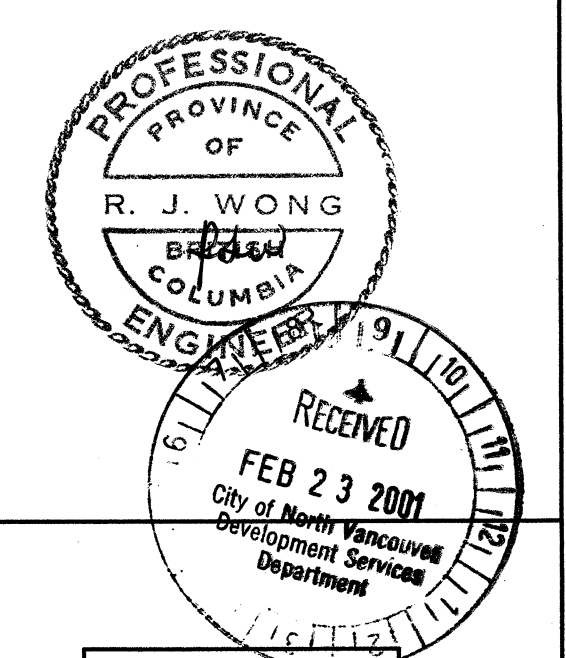
NO.	DATE	REVISIONS
-	FEB. 19/01	ISSUED FOR BUILDING PERMIT

**Maxem Holdings Inc.**  
**Office / Warehouse**  
 758 Harbourside Avenue  
 North Vancouver

PROJECT TITLE  
**SITE PLAN ELECTRICAL**

CONSULTANT  
**ARNOLD NEMETZ & ASSOCIATES LTD.**  
 2009 WEST 4TH AVENUE, VANCOUVER, B.C. CANADA V6J 1R5  
 TEL: (604) 736-1562 FAX: (604) 736-9805  
 E-MAIL: ENGINEERS@NEMETZ.COM

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**E-1**

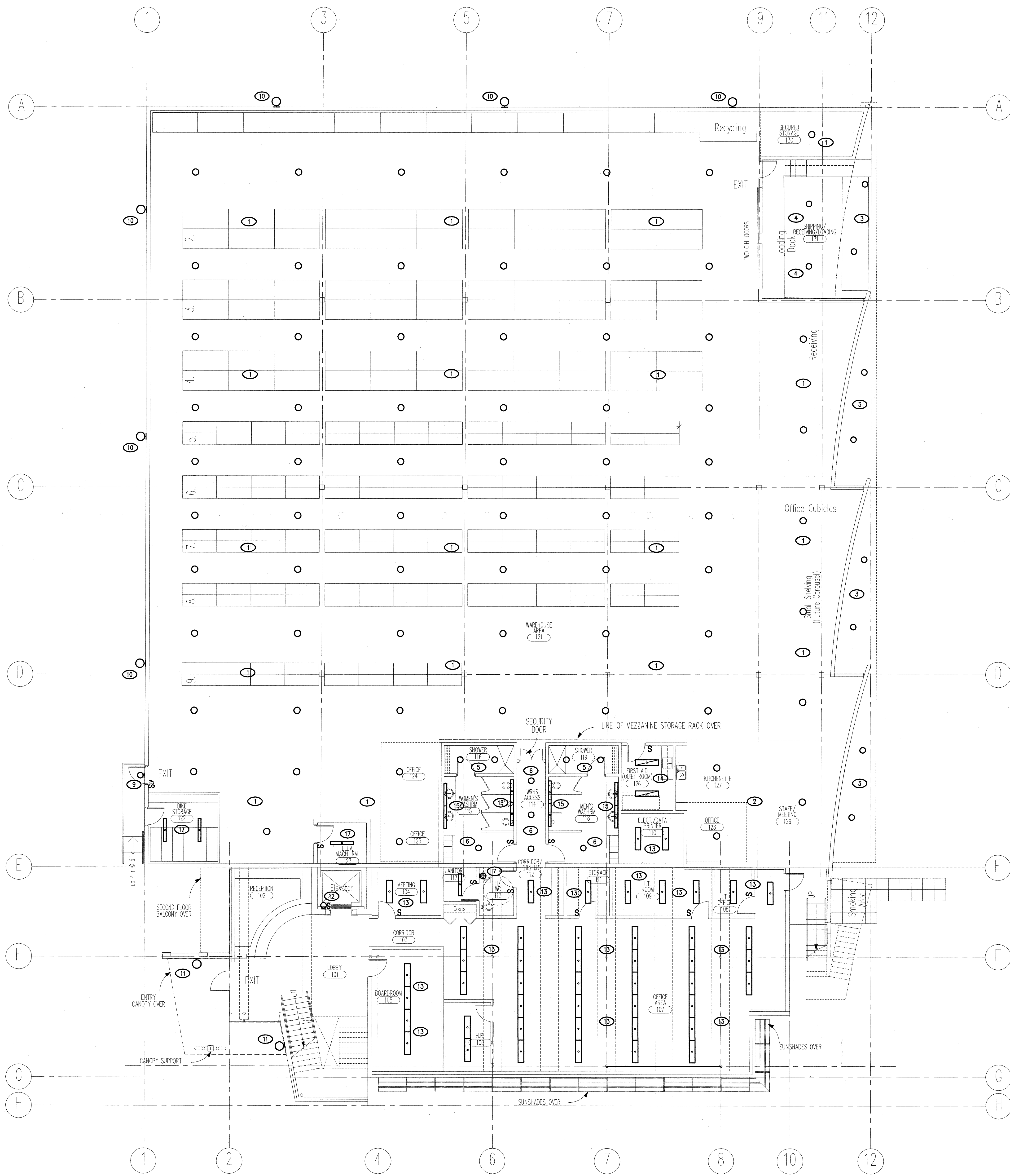
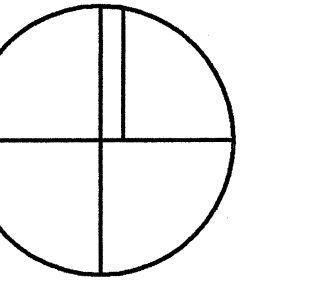
SCALE	PROJECT
1/16" = 1'-0"	8109
DRAWN	DATE
DRF/DM	FEB. 5, 2001

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PROJECT NORTH



**GROUND FLOOR LIGHTING PLAN**

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

FEB. 19/01 ISSUED FOR BUILDING PERMIT

NO. DATE REVISIONS

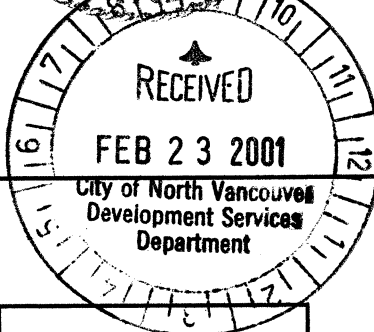
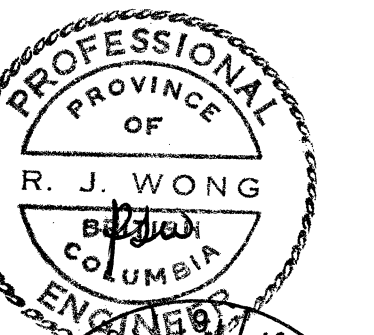
SEAL

Maxem Holdings Inc.  
**Office / Warehouse**  
758 Harbourside Avenue  
North Vancouver

PROJECT TITLE  
**GROUND FLOOR LIGHTING PLAN**

CONSULTANT  
**ARNOLD NEMETZ & ASSOCIATES LTD.**  
200 WEST 4TH AVENUE, VANCOUVER, B.C. CANADA V6B 1N3  
TEL: (604) 736-6566 FAX: (604) 736-9805  
E-MAIL: ENGINEERS@NEMETZ.COM

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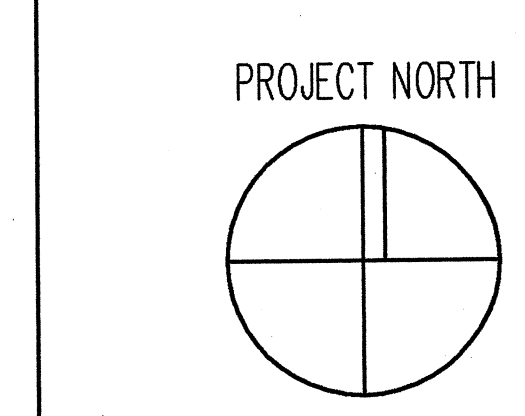
**E-2**

SCALE: 1/8" = 1'-0" PROJECT: 8109  
DRAWN: DRF/DM DATE: FEB. 5, 2001

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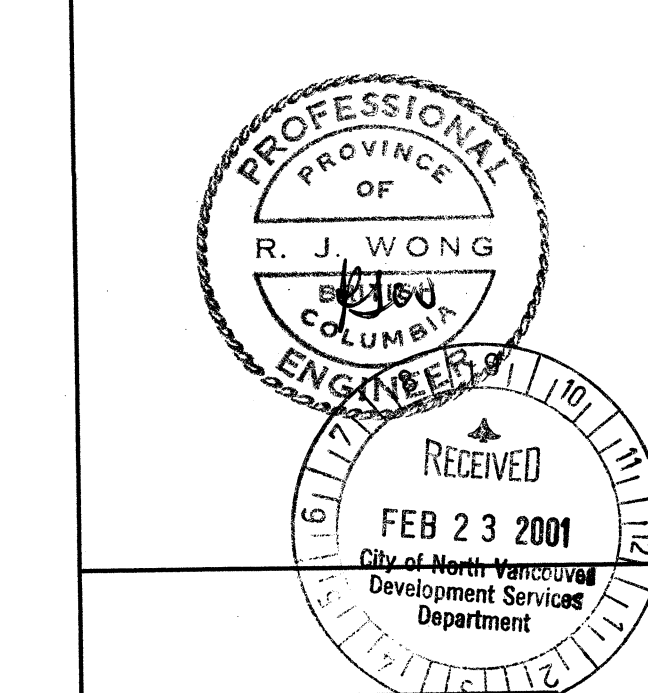
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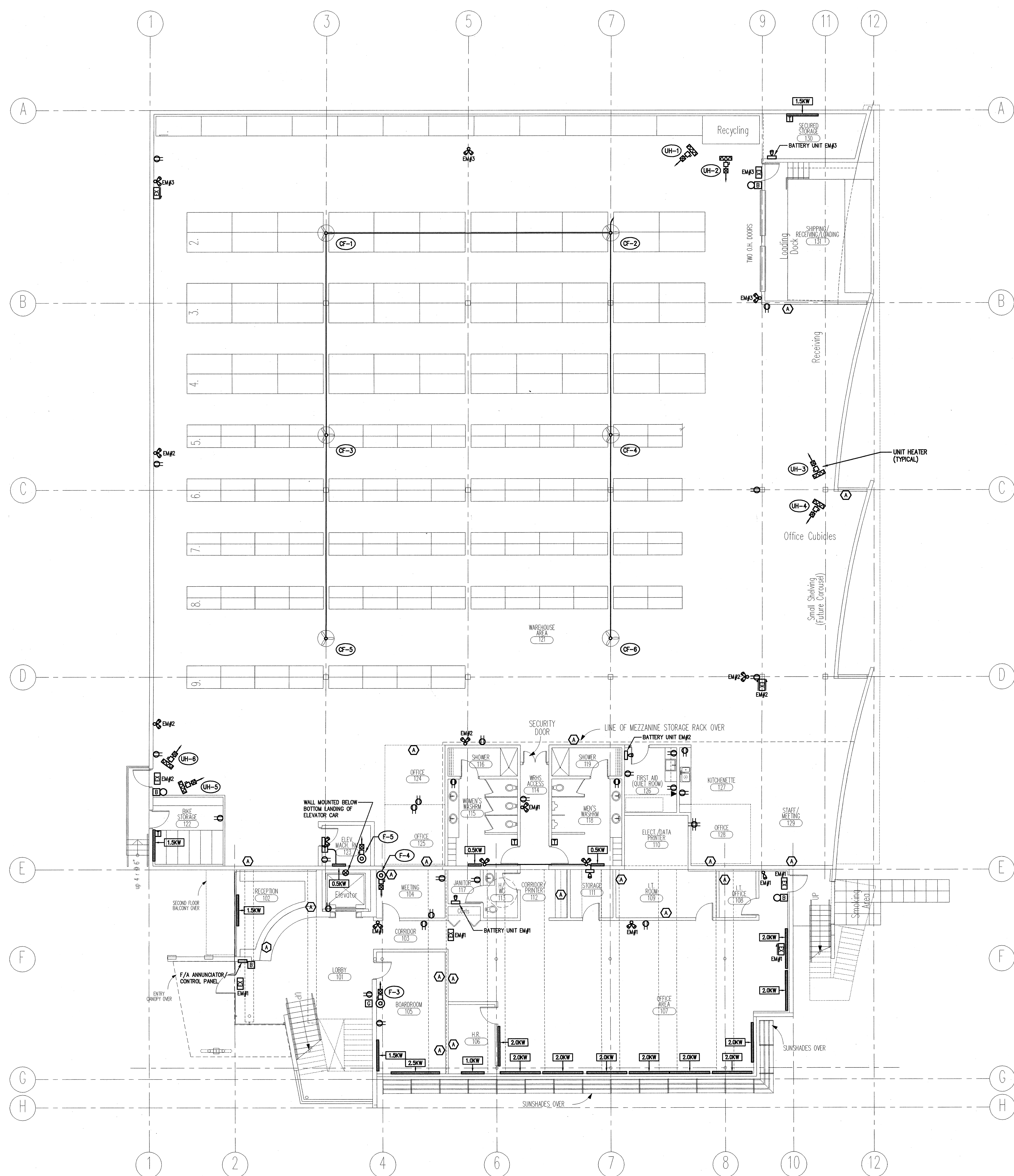
Maxem Holdings Inc.  
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CONSULTANT  
**ARNOLD NEMETZ & ASSOCIATES LTD.**  
2009 WEST 4TH AVENUE, VANCOUVER, B.C. CANADA V6J 1N3  
TEL: (604) 736-6562 FAX: (604) 736-9805  
E-MAIL: ENGINEERS@NEMETZ.COM

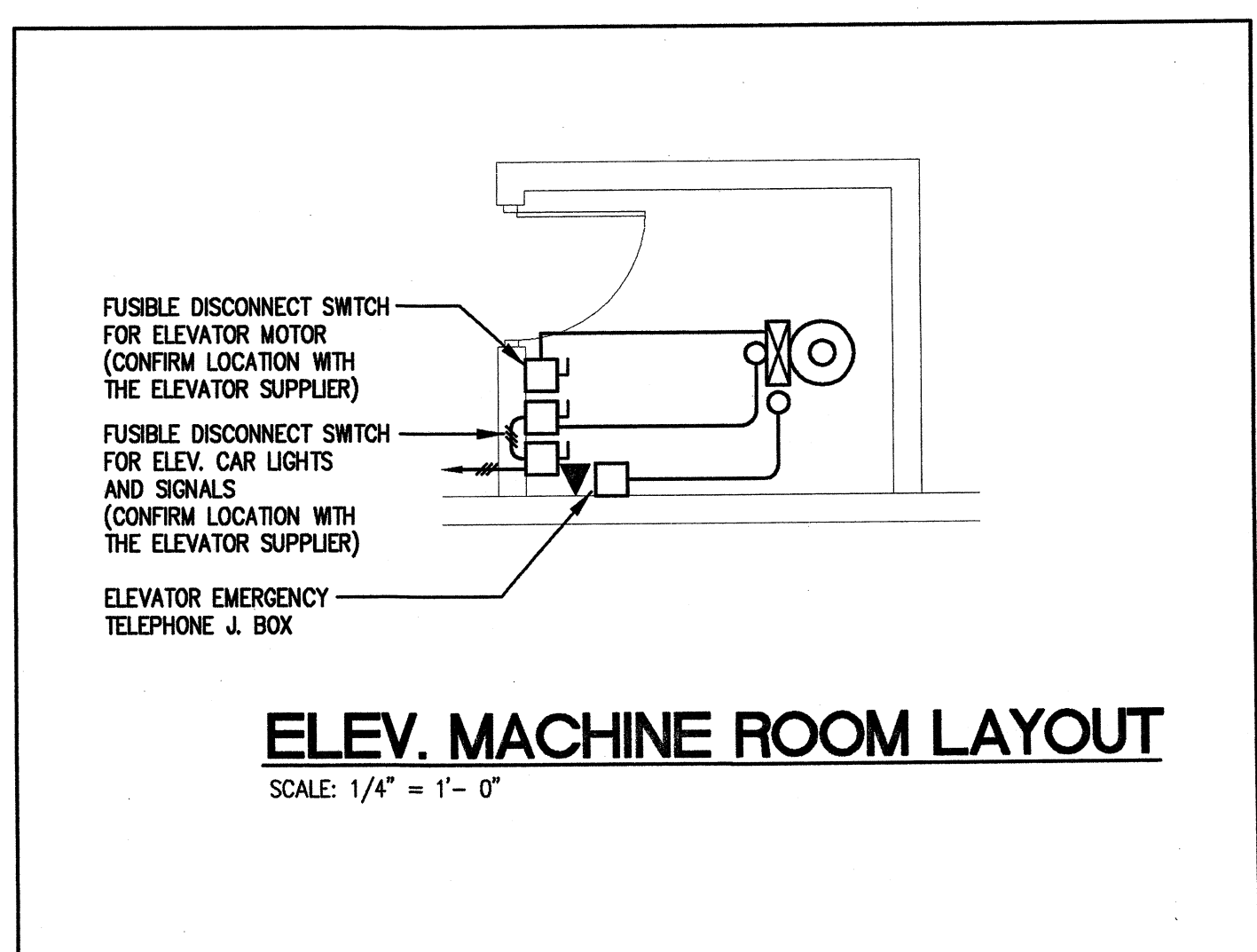
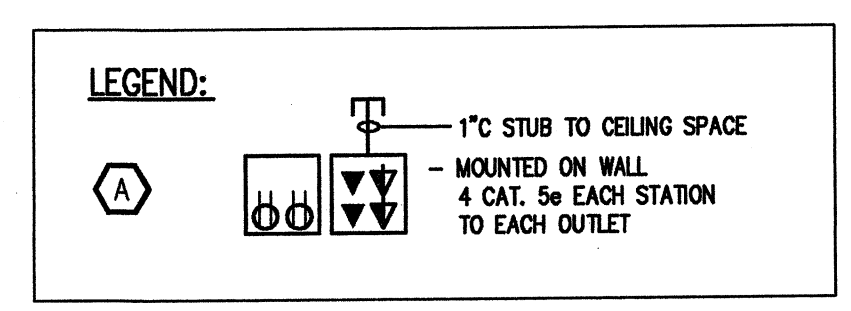


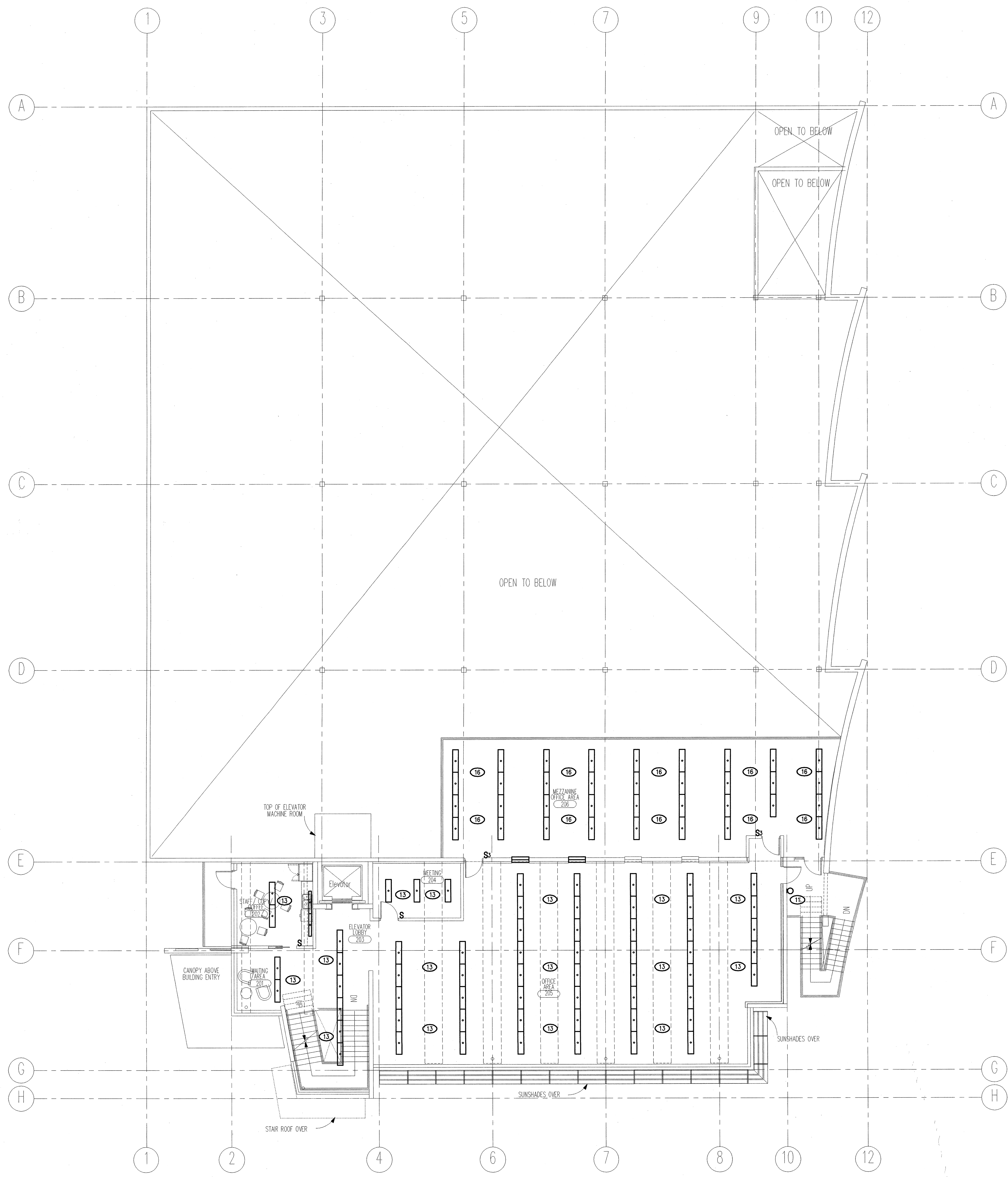
**E-3**

SCALE: 1/8" = 1'-0" PROJECT: 8109  
DRAWN: DRF/DM DATE: FEB. 5, 2001



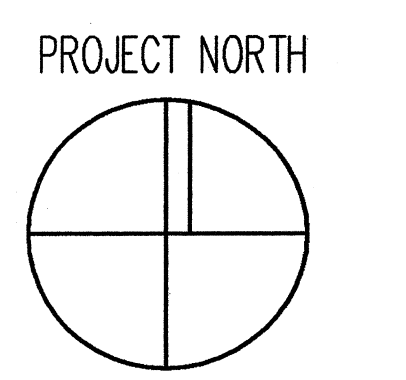
**GROUND FLOOR POWER PLAN**  
SCALE: 1/8" = 1'-0"





**SECOND FLOOR LIGHTING PLAN**  
SCALE: 1/8" = 1' - 0"

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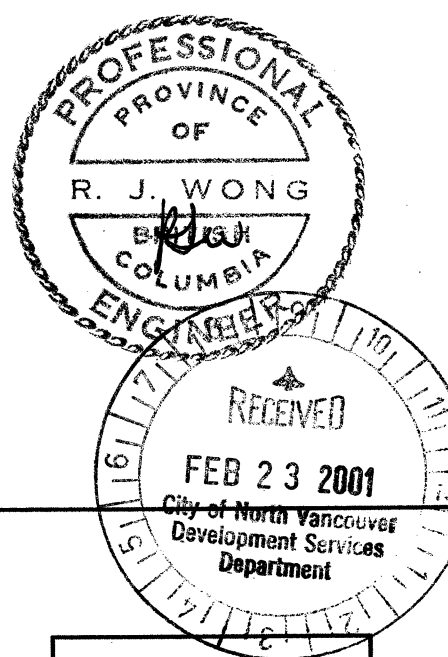
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NO.	DATE	REVISIONS

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**Office / Warehouse**  
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North Vancouver

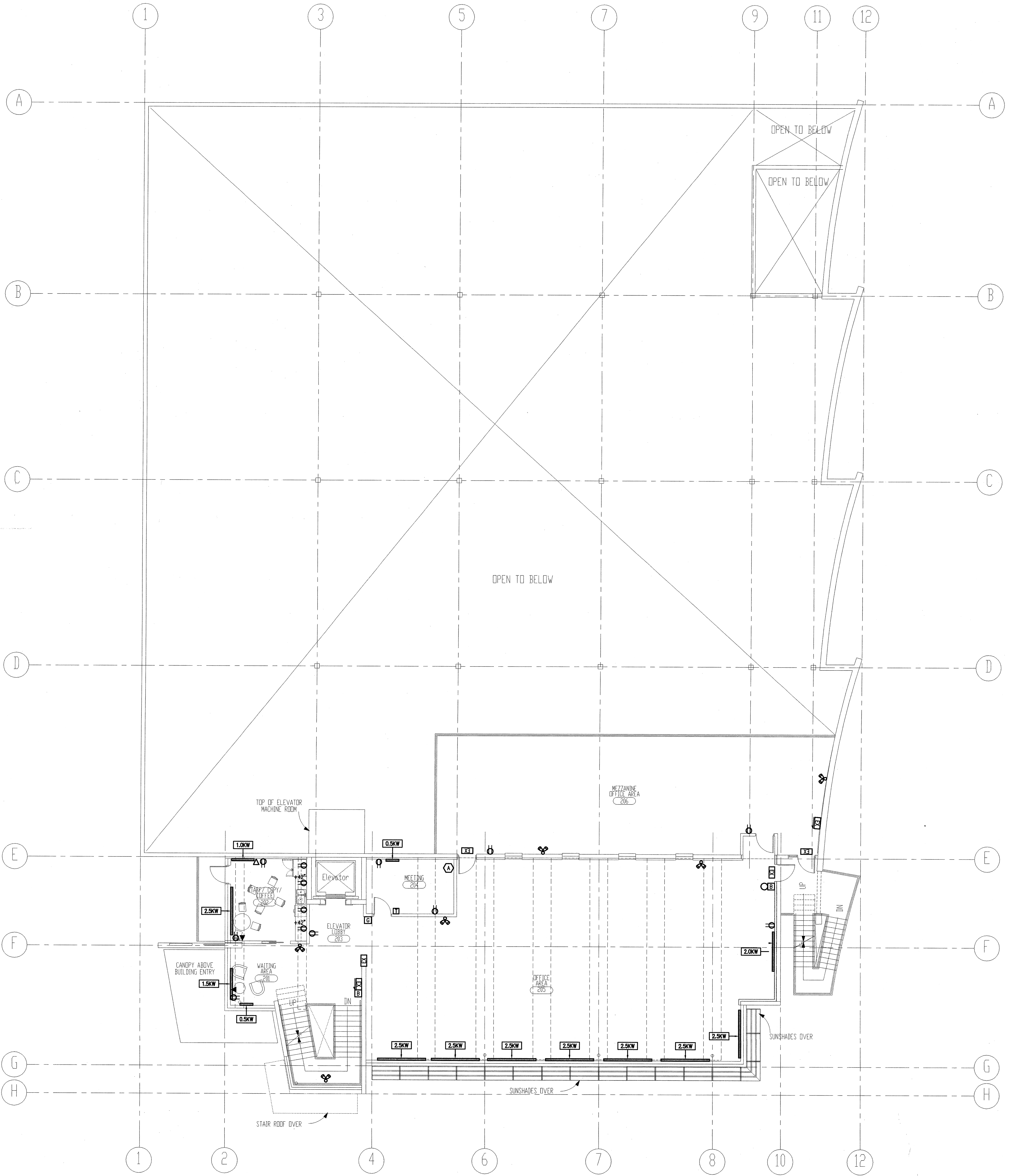
PROJECT TITLE  
**SECOND FLOOR LIGHTING PLAN**

CONSULTANT  
**ARNOLD NEMETZ & ASSOCIATES LTD.**  
2009 WEST 4TH AVENUE, VANCOUVER, B.C. CANADA V6J 1N3  
TEL: (604) 736-6562 FAX: (604) 736-9805  
E-MAIL: ENGINEERING@ARNOLDNEMETZ.COM  
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**E-4**

SCALE	PROJECT
1/8" = 1'-0"	8109
DRAWN	DATE
DRF/DM	FEB. 5, 2001



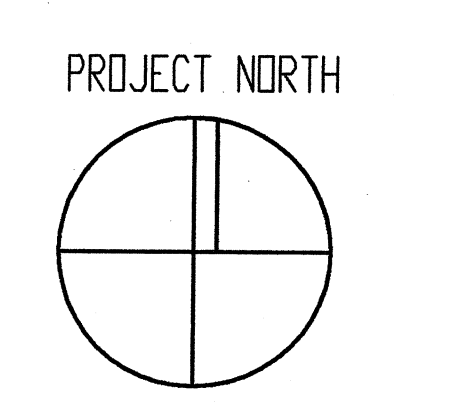
**SECOND FLOOR POWER PLAN**  
SCALE: 1/8" = 1' - 0"

**LEGEND:**

1" CEILING SPACE  
 MOUNTED ON WALL  
 4 OUTL. PER EACH STATION TO EACH OUTLET

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 REFER TO LOCAL, STATE, FEDERAL,  
 SPONSORED ELECTRICAL AND INTERIOR DESIGN  
 REGULATIONS FOR INFORMATION RELATING  
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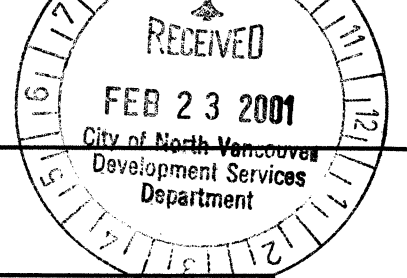
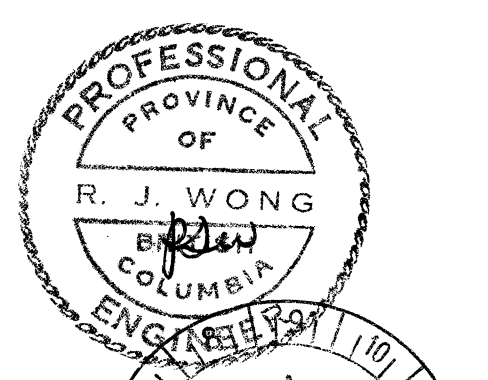
NO.	DATE	ISSUED FOR BUILDING PERMIT	REVISIONS
1	FEB. 19/01	ISSUED FOR BUILDING PERMIT	

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**Office / Warehouse**  
 758 Harbourside Avenue  
 North Vancouver

PROJECT TITLE  
**SECOND FLOOR  
 POWER PLAN**

CONSULTANT  
**ARNOLD NEMETZ  
 & ASSOCIATES LTD.**  
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\*YEAR 2000 COMPLIANCE\* AND CERTIFICATION IS REQUIRED  
 OF ALL SUPPLIERS, CONTRACTORS AND SUBCONTRACTORS.  
 REFER TO SPECIFICATION FOR DETAILS.



**E-5**

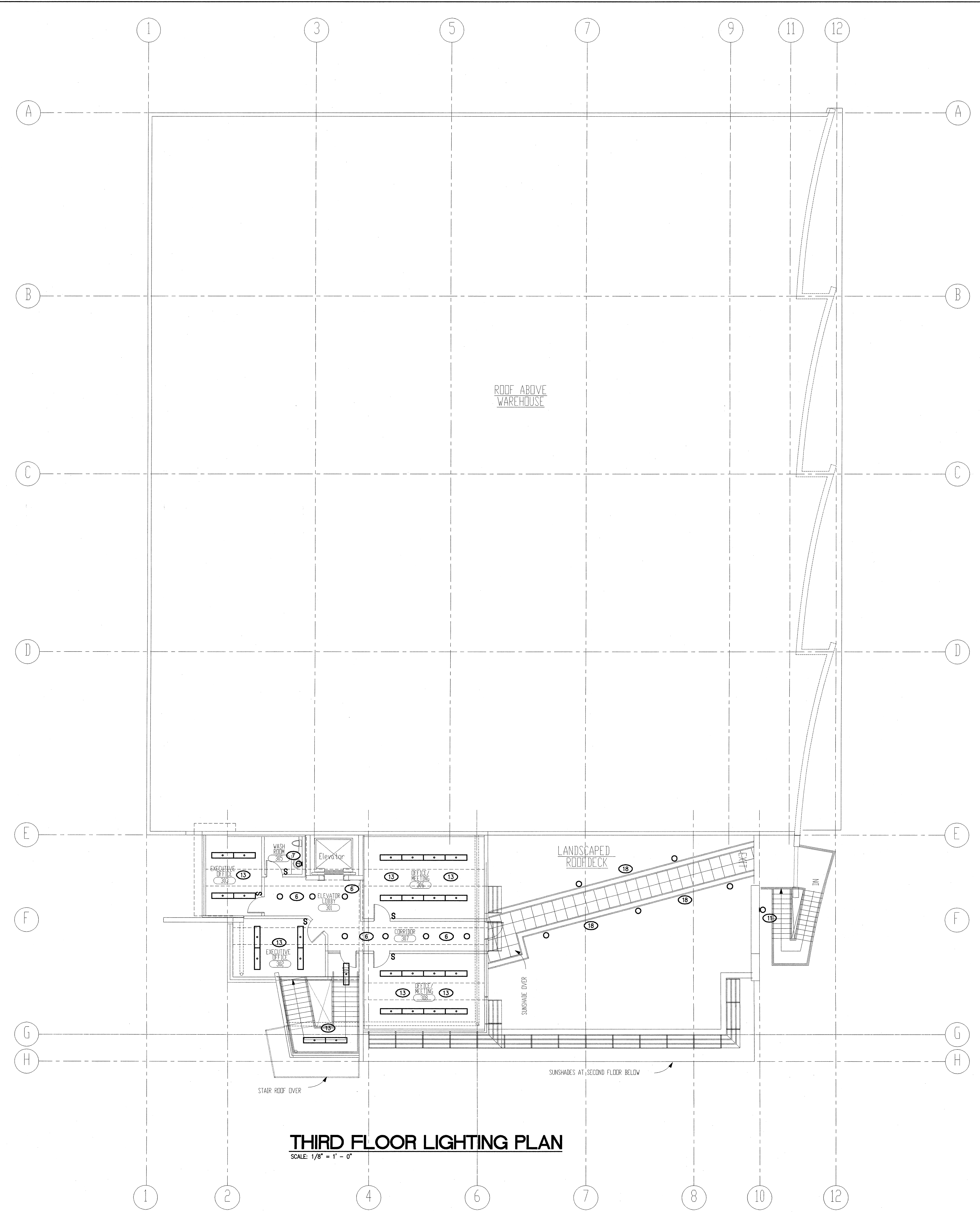
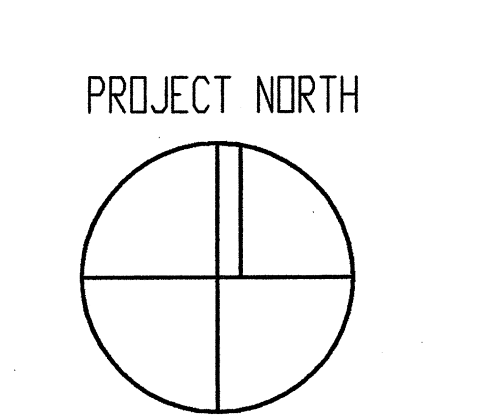
SCALE	PROJECT
1/8" = 1'-0"	8109
DRAWN	DATE
DRF/DW	FEB. 5, 2001



ALL RIGHTS RESERVED. PROPERTY OF BUNTING CORP. ARCHITECTS. USE OR REPRODUCTION PROHIBITED WITHOUT WRITTEN PERMISSION.

THE GENERAL CONTRACTOR SHALL REVIEW THE DRAWINGS FOR CONFORMANCE WITH THE BC ACT AND SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES HE MAY NOTE. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ARCHITECT.

THESE DRAWINGS ARE INTENDED FOR ARCHITECTURAL INFORMATION ONLY. THE CONTRACTOR AND ANY PERSON USING THESE DRAWINGS FOR INFORMATION ARE ADVISED TO REFER TO ALL APPLICABLE REGULATIONS, SPECIFICATIONS, ELECTRICAL AND MECHANICAL SCHEDULES, AND ANY INFORMATION RELATING TO THESE DISCIPLINES.



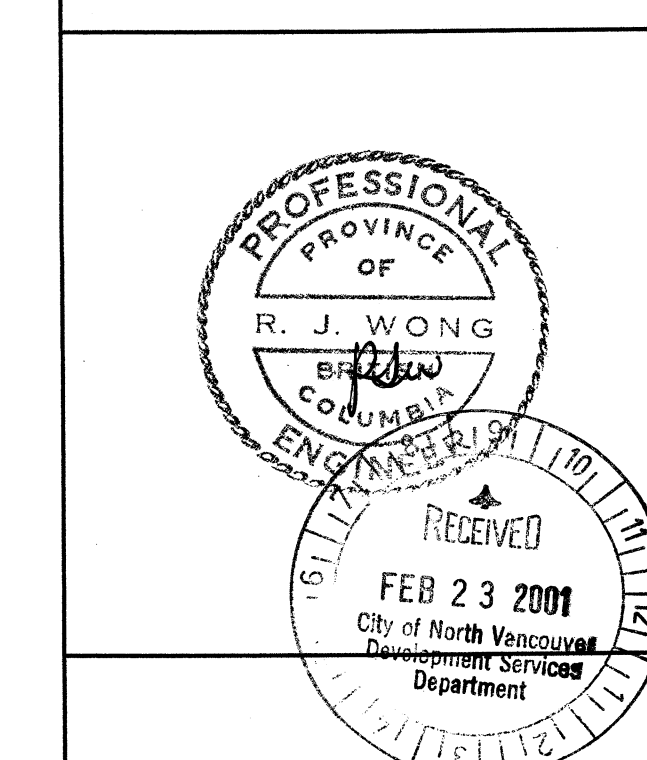
**THIRD FLOOR LIGHTING PLAN**  
SCALE: 1/8" = 1' - 0"

NO.	DATE	ISSUED FOR BUILDING PERMIT	REVISIONS

**Maxem Holdings Inc.**  
**Office / Warehouse**  
758 Harbourside Avenue  
North Vancouver

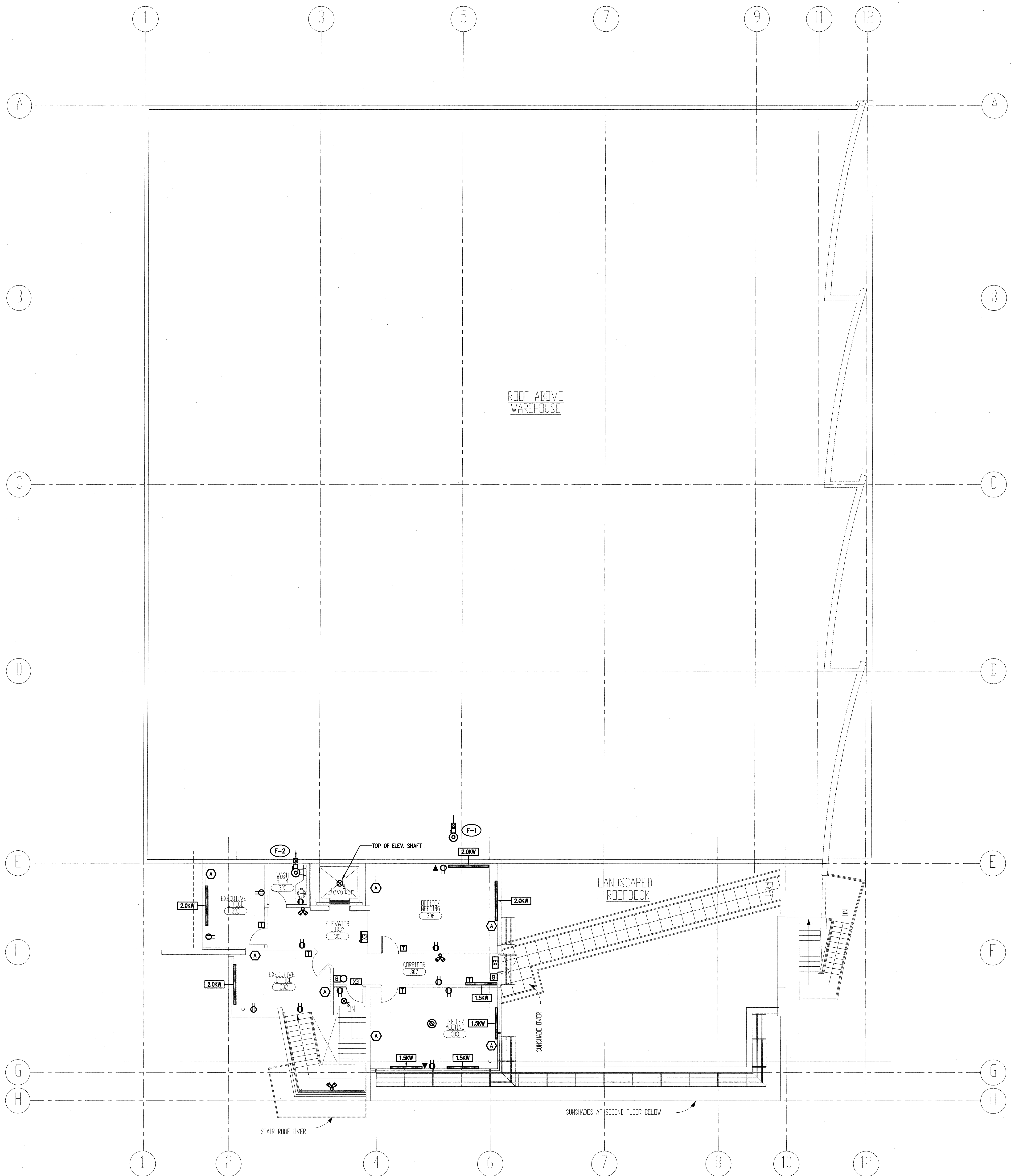
PROJECT TITLE  
**THIRD FLOOR LIGHTING PLAN**

CONSULTANT  
**ARNOLD NEMETZ & ASSOCIATES LTD.**  
2009 WEST 4TH AVENUE, VANCOUVER, B.C., CANADA, V6J 1M3  
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**E-6**

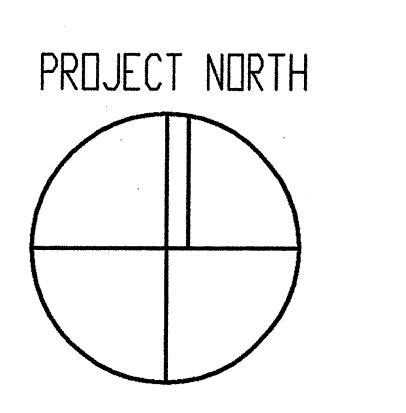
SCALE: 1/8" = 1'-0"	PROJECT: 8109
DRAWN: DRF/DM	DATE: FEB. 5, 2001



**THIRD FLOOR POWER PLAN**  
SCALE: 1/8" = 1' - 0"

**LEGEND:**  
  
 1'c STUB TO CEILING SPACE  
 MOUNTED ON WALL  
 4 CAT. 5E EACH STATION  
 TO EACH OUTLET

ALL RIGHTS RESERVED. PROPERTY OF BENTLEY CLARKE ARCHITECTS. USE OR REPRODUCTION PROHIBITED WITHOUT PRIOR WRITTEN PERMISSION.  
 THE GENERAL CONTRACTOR SHALL REVIEW THE DOCUMENTS FOR CONFORMANCE CODES AND BY-LAWS AND SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES HE MAY NOTE. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND DISCREPANCIES TO THE ARCHITECT.  
 THESE DRAWINGS ARE INTENDED FOR ARCHITECTURAL INFORMATION ONLY. THE CONTRACTOR AND ANY PERSON USING THESE DRAWINGS FOR INFORMATION ARE ADVISED TO REFER TO THE ELECTRICAL, MECHANICAL, PLUMBING, AND OUTDOOR DESIGN ELECTRICAL DRAWINGS FOR INFORMATION RELATING TO THESE DISCIPLINES.



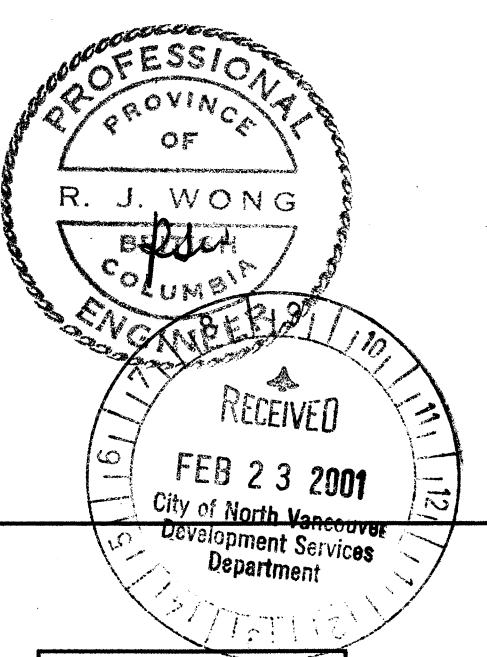
NO.	DATE	REVISIONS
-	FEB. 19/01	ISSUED FOR BUILDING PERMIT

**Maxem Holdings Inc.**  
**Office / Warehouse**  
 758 Harbourside Avenue  
 North Vancouver

**THIRD FLOOR POWER PLAN**

**ARNOLD NEMETZ & ASSOCIATES LTD.**  
 2005 WEST 4TH AVENUE, VANCOUVER, B.C. CANADA V6J 1A5  
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**E-7**

SCALE	PROJECT
1/8" = 1' - 0"	8109
DRAWN	DATE
DRF/DM	FEB. 5, 2001



**NOTE AA:**

GROUNDING TO BE PROVIDED AS REQUIRED BY SECTION 36 C.E.C.

**GENERAL NOTES**

- CONFIRM METERING ARRANGEMENT WITH THE POWER SUPPLY AUTHORITY.
- WIRE SIZED FOR RW90 COPPER.
- OMQB BOARD OR GUTTER AND SWITCHES ACCEPTABLE AS SPACE AND/OR BUS BRACING ALLOWS.
- ✓ DENOTES THAT FUSE TO HOLD LOCKED ROTOR CURRENT FOR 30 SECONDS.
- \* DENOTES TIME DELAY BUSS FRSR FUSE FOR 600V DISTRIBUTIONS AND BUSS FRMR FUSE FOR 250V DISTRIBUTIONS.
- FPL #MGR-1200 (VERY INVERSE TIME) GROUND FAULT RELAY OR APPROVE EQUAL RELAY MUST BE OF A VERY INVERSE CHARACTERISTIC AND BE CAPABLE OF BEING SET AT 1200 AMPS PICKUP AT 1 SECOND, SETTING CLEAR THE FAULT AT 1000 AMPS.
- FUSE SPECIFICATION 120/208 120/240 VOLTS**
  - 1. MAINS AND FEEDERS**
    - SERVICE ENTRANCE MAINS AND FEEDER FUSES OVER 800 AMPERES SHALL BE BUSSMANN HRC-L TYPE KRP-C WITH 'O' RING SEAL BETWEEN THE END BELLS AND THE GLASS MELAMINE FUSE BARREL. TERMINALS OF FUSE TO BE GLASS PEELED.
    - ALL MAINS AND FEEDERS, 70 THROUGH 800 AMPERES, PROTECTING CIRCUIT BREAKERS, SHALL BE BUSSMANN HRC-T TYPE JIN. THE FUSES AND BREAKERS SHALL BE A CSA APPROVED SERIES, TESTED COMBINATION, LABELING OF THE EQUIPMENT MUST BE APPLIED PER THE CANADIAN ELECTRICAL CODE RULE #14-014.
    - ALL OTHER MAINS AND FEEDERS, 15 AMPS THROUGH 600 AMPS, OTHER THAN THOSE PROTECTING CIRCUIT BREAKERS, SHALL BE HRC-J TIME-DELAY TYPE LPJ-5000A SP.
    - ALL FUSE SHALL BE OF THE SAME MANUFACTURER TO FACILITATE SELECTIVE COORDINATION OF THE SYSTEM.
  - 2. MOTORS**

ALL MOTORS SHALL BE PROTECTED BY BUSSMANN HRC-J TIME-DELAY TYPE LPJ-5000A SP HRC J FUSES. THESE FUSES SHALL BE SIZED AT 150% OF MOTOR FULL LOAD AMPERES FOR STANDARD DUTY, AND 175% FOR HEAVY DUTY. FUSES SHALL PROVIDE "NO DAMAGE" PROTECTION TO THE MOTOR STARTER FOR ALL SHORT CIRCUIT CURRENTS UP TO 100.00 AMPERES RMS.
  - 3. TRANSFORMER**

THE PRIMARY FUSES PROTECTING 600 TO 120/208 VOLT TRANSFORMERS, SHALL BE BUSSMANN HRC-R, DUAL ELEMENT, TIME-DELAY TYPE FR5-R FUSES. THE FUSES SHALL BE SIZED AT 125% OF THE TRANSFORMER FULL LOAD CURRENT IN ACCORDANCE WITH THE CEC RULE 26-256. THE FUSE SHALL BE CAPABLE OF HANDLING 15 TIMES THE TRANSFORMER FULL LOAD CURRENT FOR 0.1 SECONDS.
- FUSE SPECIFICATION 600/347 VOLTS**
  - 1. MAINS AND FEEDERS**
    - SERVICE ENTRANCE MAINS AND FEEDER FUSES OVER 800 AMPERES SHALL BE BUSSMANN HRC-L TYPE KRP-C WITH 'O' RING SEAL BETWEEN THE END BELLS AND THE GLASS MELAMINE FUSE BARREL. TERMINALS OF FUSE TO BE GLASS PEELED.
    - ALL MAINS AND FEEDERS, 15 THROUGH 400 AMPERES, PROTECTING CIRCUIT BREAKERS, SHALL BE BUSSMANN HRC-J TYPE LPJ. THE FUSES AND BREAKERS SHALL BE A CSA APPROVED SERIES, TESTED COMBINATION, LABELING OF THE EQUIPMENT MUST BE APPLIED PER THE CANADIAN ELECTRICAL CODE RULE #14-014.
    - ALL OTHER MAINS AND FEEDERS, 15 AMPS THROUGH 600 AMPS, OTHER THAN THOSE PROTECTING CIRCUIT BREAKERS, SHALL BE HRC-J TIME-DELAY TYPE LPJ-5000A SP.
  - 2. MOTORS**

ALL MOTORS SHALL BE PROTECTED BY BUSSMANN HRC-J TIME-DELAY TYPE LPJ-5000A SP HRC J FUSES. THESE FUSES SHALL BE SIZED AT 150% OF MOTOR FULL LOAD AMPERES FOR STANDARD DUTY, AND 175% FOR HEAVY DUTY. FUSES SHALL PROVIDE "NO DAMAGE" PROTECTION TO THE MOTOR STARTER FOR ALL SHORT CIRCUIT CURRENTS UP TO 100.00 AMPERES RMS.
  - THE PRIMARY FUSES PROTECTING 600 TO 120/208 VOLT, OR 600 TO 120/240 VOLT TRANSFORMERS, SHALL BE BUSSMANN TYPE HRC-R, DUAL ELEMENT, TIME DELAY TYPE FR5-R FUSES. THE FUSES SHALL BE SIZED AT 125% OF THE TRANSFORMER FULL LOAD CURRENT IN ACCORDANCE WITH THE CEC RULE 26-256. THE FUSE SHALL BE CAPABLE OF HANDLING 20 TIMES THE TRANSFORMER FULL LOAD CURRENT FOR 0.1 SECONDS.
- GROUND FAULT RELAYS**
  - 1. GROUND FAULT RELAYS (One level)**

THE MAIN GROUND FAULT RELAY SHALL BE FPL TYPE MGR-1200 INVERSE TIME BAND SET AT 1200 AMPERES ONE SECOND INVERSE TIME. ALL FEEDERS OVER 600 AMPERES SHALL BE EQUIPPED WITH GROUND FAULT RELAYS TYPE FPL MGR-1200 SET AT 1200 AMPERES 0.1 SECOND INVERSE TIME BAND. ALL FEEDER SWITCHES 600 AMP AND SMALLER SHALL BE EQUIPPED WITH BUSSMANN FUSES TYPE LPJ WHICH MEET THE GROUND FAULT REQUIREMENTS OF THE CEC RULE 14-102-(2).

GROUND FAULT RELAYS THAT ARE AN INTEGRAL PART OF OVER CURRENT RELAYS WILL NOT BE ACCEPTABLE BECAUSE OF THEIR INABILITY TO SELECTIVELY COORDINATE WITH DOWN STREAM PROTECTIVE DEVICES.

PROVIDE ZERO SEQUENCE CURRENT TRANSFORMERS ENCIRCLING ALL PHASES AND NEUTRAL CONDUCTORS. GROUND STRAP CURRENT TRANSFORMERS ARE NOT ACCEPTABLE AS UNDER CODE THEY RESTRICT THE MAXIMUM RELAY SETTING TO 1000 AMPERES.
  - 2. GROUND FAULT RELAYS (Two level)**

THE MAIN GROUND FAULT RELAY SHALL BE FPL TYPE MGR-1200 (VERY INVERSE TIME) SET AT 1200 AMPERES ONE SECOND INVERSE TIME BAND. FEEDERS GROUND FAULT RELAYS, FPL TYPE MGR-1200 SET AT 1200 AMPERES 0.1 SECOND INVERSE TIME BAND, SHALL BE PROVIDED FOR ALL FEEDER SWITCHES OVER 600 AMPERES. ALL FEEDER FUSES SHALL BE BUSSMANN TYPE JIN OR LPJ AS SHOWN ON THE DRAWINGS.

GROUND FAULT RELAYS THAT ARE AN INTEGRAL PART OF OVER CURRENT RELAYS WILL NOT BE ACCEPTABLE BECAUSE OF THEIR INABILITY TO SELECTIVELY COORDINATE WITH DOWN STREAM PROTECTIVE DEVICES.

PROVIDE ZERO SEQUENCE CURRENT TRANSFORMERS ENCIRCLING ALL PHASES AND NEUTRAL CONDUCTORS. GROUND STRAP CURRENT TRANSFORMERS ARE NOT ACCEPTABLE AS UNDER CODE THEY RESTRICT THE MAXIMUM RELAY SETTING TO 1000 AMPERES.
- ONLY "APPROVED" SERIES RATED COMBINATION TO BE USED.**
- ANY REQUEST FOR USE OF ALTERNATE PROTECTION DEVICES SHALL BE ACCOMPANIED BY A FULL COORDINATION STUDY AND FAULT CURRENT CALCULATION ONE FULL CALENDAR WEEK PRIOR TO CLOSE OF TENDER FOR REVIEW BY THE ENGINEER.
- MINIMUM TRANSFORMER IMPEDANCE TO BE 6%.
- PROVIDE CABINET C/W REMOVABLE SIDE FOR FUTURE METERING AND LAMICOD LABEL TO READ "CHECK METER PROVISIONS".
- INDICATES CABLES OVERSIZED TO SUSTAIN SHORT TERM TEMPERATURE RISE.
- PROVIDE SPARE FUSE CABINET AND THREE SPARE FOR EACH TYPE AND SIZE. (SEE SECTION 16163.2.5)
- THE FAULT LIMITATIONS FOR SERIES RATED COMBINATIONS MUST COMPLY WITH CEC 14-014.

**BASE FEEDER SCHEDULE**

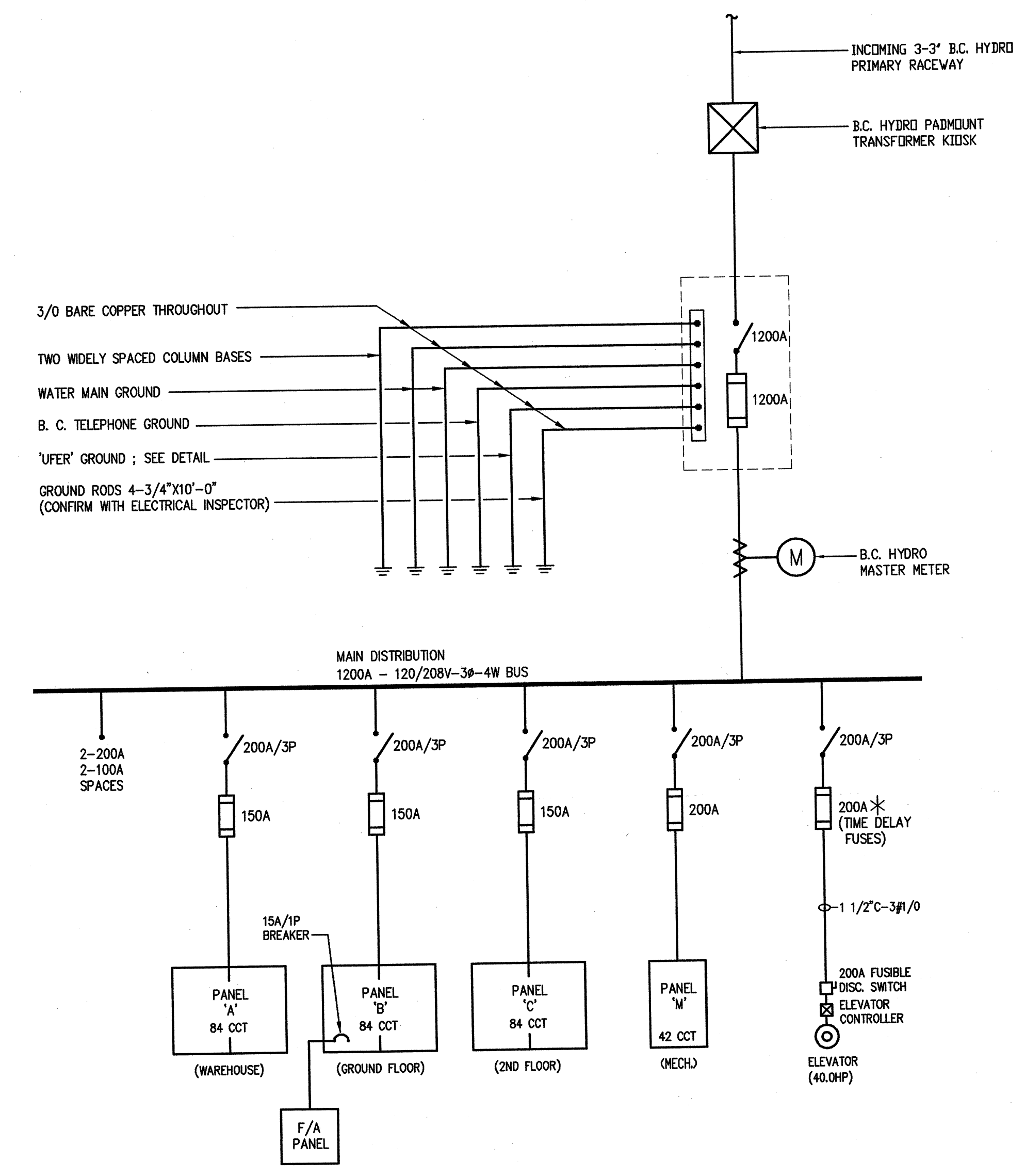
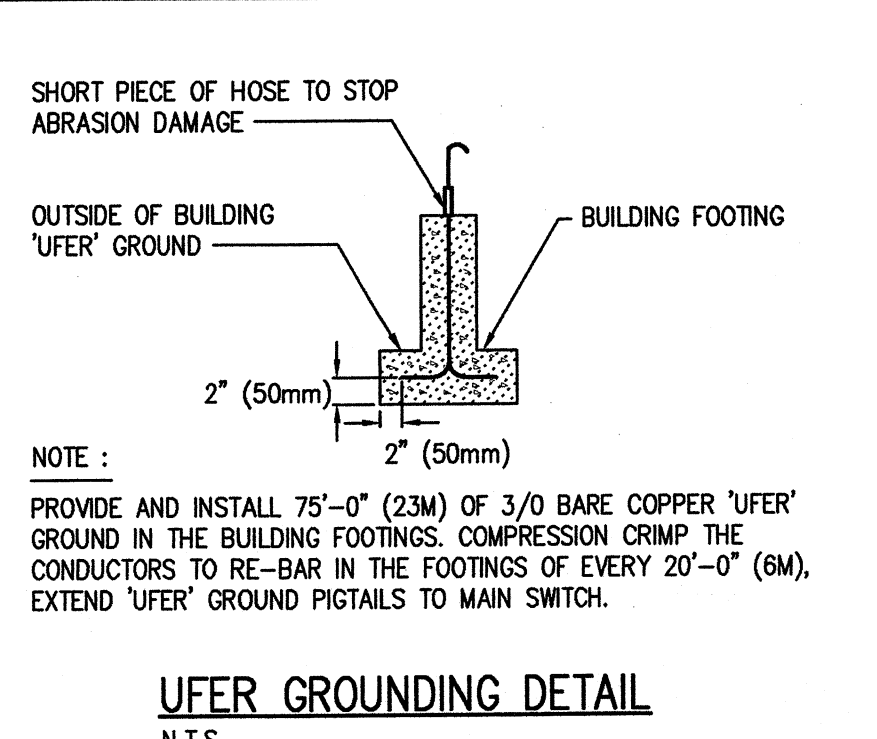
1. EXCEPT AS NOTED ON THE ONE-LINE THE FOLLOWING BASE FEEDERS SHOULD BE PROVIDED:

FUSE/BREAKER SIZE:	CONDUIT & WIRE SIZE:
30A	3/4" - 480 RW90
40A	3/4" - 480 RW90
50/60A	1 1/4" - 480 RW90
70/80A	1 1/2" - 484 RW90
100A	1 1/2" - 483 RW90
125A	2" - 481 RW90
150A	2" - 481/0 RW90
175A	2 1/2" - 482/0 RW90
200A	2 1/2" - 483/0 RW90
250A	3" - 48250CM RW90
300A	2 x 2" - 481/0 RW90
400A	2 x 2 1/2" - 483/0 RW90
500A	2 x 3" - 48250CM RW90
600A	2 x 3" - 48300CM RW90
700A	2 x 3 1/2" - 48350CM RW90
800A	2 x 4" - 48300CM RW90
1000A	3 x 3 1/2" - 48350CM RW90
1200A	3 x 4" - 48300CM RW90
1400A	4 x 4" - 48400CM RW90
1600A	4 x 4" - 48300CM RW90
2000A	6 x 4" - 48500CM RW90

2. CONDUCTOR SIZE FOR HYDRAULIC ELEVATORS TO BE 200% OF THE LISTED C.E.C., UNLESS OTHERWISE NOTED.

**FEEDERS AND DISTANCES**

DISTANCE	FEEDER
0.0-75 FT	BASE
75-150 FT	INCREASE ONE SIZE FROM BASE
150-200 FT	INCREASE TWO SIZES FROM BASE



**ONE LINE DIAGRAM**

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NO.	DATE	REVISIONS

ISSUED FOR BUILDING PERMIT  
FEB 19/01

**Maxem Holdings Inc.**  
Office / Warehouse  
758 Harbourside Avenue  
North Vancouver

PROJECT TITLE  
**ONE LINE DIAGRAM**

CONSULTANT  
**ARNOLD NEMETZ & ASSOCIATES LTD.**  
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PROFESSIONAL ENGINEER  
R. J. WONG  
REGISTERED  
FEB 23 2001  
City of North Vancouver  
Development Services Department

**E-9**

SCALE: N.T.S. PROJECT: 8109  
DRAWN: DRF/DM DATE: FEB. 5, 2001

# SYMBOL SCHEDULE

**NOTES:**

- BY AND NON METALLIC CABLE MAY BE USED WHERE PERMITTED BY CODE
- ALL WIRE DESIGNATED SHALL BE COPPER ONLY
- ALL CONDUITS SHALL BE #2 UNLESS OTHERWISE NOTED
- ALL 15 AMP CIRCUITS OVER 10'-0" (3.0 METERS) TO BE #10 THROUGHOUT UNLESS OTHERWISE NOTED
- MOUNTING HEIGHTS SHOWN ON DRAWINGS SUPERCEDE MOUNTING HEIGHTS SHOWN ON SYMBOL SCHEDULE. ELECTRICAL CONTRACTOR TO VERIFY MOUNTING HEIGHTS WITH SITE CONDITIONS
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE VAPOR BARRIERS AT ALL OUTLETS IN EXTERIOR WALLS & CEILING THAT HAVE INSULATION AND DAMPERS BY FITTING THE OUTLETS WITH PROTECTOR PLATES AND OUTLET BOX BARRIERS, AS MANUFACTURED BY BERRALLE OR HUBBELL. THE PROTECTOR PLATES SHALL SUPPORT THE BOX BARRIERS TO ENSURE A GOOD SEAL.

SYMBOL	DESCRIPTION	MOUNTING (TO 2)
○	OUTLET BOX OR CONDUIT	
⊖	FLUSH DUPLEX RECEPTACLE	UP 1'-0" (305mm)
⊖	FLUSH DUPLEX RECEPTACLE - PROVIDE GROUND FAULT PROTECTION	UP 1'-0" (305mm)
⊖	FLUSH DUPLEX RECEPTACLE - TOP OUTLET ON SWITCHES	UP 1'-0" (305mm)
⊖	MICROWAVE OUTLET - SEE DRAWINGS FOR MOUNTING	VARIES
⊖	ISOLATED GROUND RECEPTACLE - HUBBELL #0 5282	UP 1'-0" (305mm)
⊖	SPECIAL OUTLET - STRAIGHT BLADE	UP 1'-0" (305mm)
⊖	SPECIAL OUTLET - TWISTLOCK TYPE	VARIES
⊖	SPECIAL OUTLET - TWISTLOCK TYPE	VARIES
⊖	WEATHERPROOF DUPLEX RECEPTACLE ON GFI CIRCUIT C/W TAYMAC #0310 COVER PLATE	VARIES
⊖	TWO DUPLEX RECEPTACLES IN DOUBLE GANG BOX - ONE DUPLEX RED OR GREY IN COLOUR FOR COMPUTER POWER. ONE DUPLEX WHITE IN COLOUR FOR GENERAL POWER.	VARIES
⊖	DUPLEX RECEPTACLE IN FLOOR BOX - T&B 1900 SERIES C/W 202 COVER	FLUSH IN FLOOR
L.G.	INDICATES ISOLATED GROUND	
G.F.A.	INDICATES GROUND FAULT INTERRUPT	
W.P.	INDICATES WEATHER PROOF	
—	INDICATES CONDUIT RUN TO DESIGNATED PANEL	
—	INDICATES NUMBER OF CONDUCTORS IN CONDUIT	
—	INDICATES CONDUIT IN OR NEAR FLOOR TURNED UP	
—	INDICATES CONDUIT IN OR NEAR CEILING TURNED DOWN	
□	PANEL BOARD	AS NOTED
▽	TELEPHONE OUTLET WITH 1" (25mm) CONDUIT STUB TO CEILING SPACE	
▽	TELEVISION OUTLET WITH 1" STUB TO CEILING SPACE	
▽	DATA OUTLET - (1) 4"x4"x2 1/8" BOX C/W BERRALLE 52-C-49 1/2 MID RING AND 1" CONDUIT TO 12" ABOVE FINISHED CEILING C/W PLASTIC BUSHING AND MID RING	UP 1'-0" (305mm)
▽	COMBINED DATA/TEL OUTLET (1) 4"x4"x2 1/8" BOX C/W BERRALLE 52-C-49 1/2 MID RING AND 1" CONDUIT TO 12" ABOVE FINISHED CEILING. PROVIDE PULL STRING AND PLASTIC BUSHING. JACKS & FACEPLATE AS SPECIFIED.	UP 1'-0" (305mm)
▽	PUBLIC TELEPHONE OUTLET - 1" (25mm) CONDUIT TO EACH OUTLET (WIRING BY TELEPHONE CO.)	UP 4'-0" (1220mm)
▽	TELEPHONE OUTLET IN FLOOR BOX - T & B 1900 SERIES C/W 204 COVER	FLUSH IN FLOOR
○	CEILING MOUNTED INCANDESCENT/PL/H.I.D. FIXTURE	CEILING
○	WALL MOUNTED INCANDESCENT/PL/H.I.D. FIXTURE	WALL
○	CEILING MOUNTED INCANDESCENT/PL FIXTURE ON 24 HOURS (NIGHT LIGHT)	AS NOTED
○	SURFACE MOUNTED FLUORESCENT FIXTURE	AS NOTED
○	RECESSED MOUNTED FLUORESCENT FIXTURE	AS NOTED
○	FLUORESCENT FIXTURE ON 24 HOURS (NIGHT LIGHT)	AS NOTED
○	TRACK LIGHTING (HEADS AS SHOWN)	AS NOTED
○	TIME CLOCK	
S	SINGLE POLE SWITCH	UP 4'-2" (1270mm) TO CENTRE
S3	THREE WAY SWITCH	UP 4'-2" (1270mm) TO CENTRE
S4	FOUR WAY SWITCH	UP 4'-2" (1270mm) TO CENTRE
S	DIMMER SWITCH C/W PRESET SWITCH AND SLIDE CONTROL	UP 4'-2" (1270mm) TO CENTRE
S	MANUAL MOTOR STARTER WITH PILOT LIGHT	UP 4'-2" (1270mm) TO CENTRE
S	KEY SWITCH - G.E. 5911 CL	UP 4'-2" (1270mm) TO CENTRE
S	SINGLE POLE SWITCH WITH PILOT LIGHT IN TWO GANG BOX	UP 4'-2" (1270mm) TO CENTRE
S	REMOTE CONTROL SWITCH - G.E. R.F.S. - 6	UP 4'-2" (1270mm) TO CENTRE
S	TIMER SWITCH - INTERMATIC #203M	UP 4'-2" (1270mm) TO CENTRE
S	MANUAL VARIABLE SPEED CONTROL	UP 4'-2" (1270mm) TO CENTRE
S	LOW VOLTAGE SWITCH	UP 4'-2" (1270mm) TO CENTRE
S	OCCUPANCY SENSOR	UP 4'-2" (1270mm) TO CENTRE
S	POWER SWITCH FOR SECURITY MONITOR	UP 4'-2" (1270mm) TO CENTRE
□	DOOR BUTTION	
□	DOOR JAMB SWITCH - EDWARDS #502-120V-6A	HINGE SIDE
□	DUAL TECHNOLOGY MOTION DETECTOR (PIR)	
□	DOOR RELEASE - CONNECT TO INTERCOM AND BUILDING F.A. SYSTEM	
□	SECURITY KEY PAD	UP 4'-2" (1270mm) TO CENTRE
□	SECURITY CARD READER	UP 4'-2" (1270mm) TO CENTRE
□	ALARM CONTACT - DOOR/WINDOW MOUNT IN JAMB	VARIES
□	PUSH BUTTON DOOR RELEASE	UP 4'-2" (1270mm) TO CENTRE
□	EXIT LIGHT	
□	EMERGENCY LIGHTING UNIT - EXIDE B 200 SERIES C/W HALOGEN LAMP. NUMBER OF HEADS AS SHOWN ON DRAWING. SIZE BATTERY PACK TO SUIT NUMBER OF HEADS CONNECTED. EQUAL TO LUMACELL: DUAL-LITE, EMER-LITE, READY-LITE L224-60; LITHONIA TITAN SERIES	HIGH AS POSSIBLE. COORDINATE ON SITE WITH SITE CONDITIONS FOR SIGHT LINE VISIBILITY
□	REMOTE EMERGENCY LIGHTING HEAD - 12W	
□	FIRE ALARM BREAKGLASS [EDWARDS 270-SP] WITH FIRE ALARM GONG ABOVE [EDWARDS 10" (254mm)]	BREAKGLASS: UP 4'-2" (1270mm) GONG: DOWN 1'-0" (305mm)
□	FIRE ALARM BREAKGLASS - EDWARDS 270-SP	
□	FIRE ALARM GONG - EDWARDS 10" (254mm)	
□	MIN-HORN SIGNAL C/W SIGNAL SILENCE: MODEL 683-1C & 683-1R.	DOWN 1'-0" (305mm) FLUSH
□	FIRE ALARM BELL & GRILL - EDWARDS 6" (152mm)	DOWN 1'-0" (305mm) FLUSH
□	AUTOMATIC HEAT DETECTOR - EDWARDS 281-A	CEILING OR WALL
□	AUTOMATIC HEAT DETECTOR - EDWARDS 284-A	BELLING
□	AUTOMATIC SMOKE DETECTOR - EDWARDS 6250 C / 6251 C-001	CEILING
□	SECURITY CAMERA WITH 1/2" TO SECURITY PANEL IN COMM. ROOM	AS NOTED
□	MOTOR	
□	DISCONNECT SWITCH	
□	MAGNETIC MOTOR STARTER C/W PILOT LIGHT AND HAND/OFF/AUTO BUTTION	
□	MOTORIZED DAMPER	VARIES
□	TAMPER SWITCH	VARIES
□	FLOW SWITCH	VARIES
□	KICKSPACE HEATER	
□	ELECTRIC BASEBOARD HEATER - STANDARD DENSITY - WHITE	SURFACE
□	THERMOSTAT - COLOUR TO MATCH SWITCH PLATE - THERMOSTAT TO READ °C	UP 5'-0" (1525mm)
□	HUMIDISTAT TO OVERRIDE FAN SWITCH - SUPPLIED BY DIV. 15, COORDINATE WITH DIV. 15	UP 5'-0" (1525mm)

# MECHANICAL SCHEDULE

**NOTES:**

- CONFIRM FINAL LOCATION AND POSITION OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN
- CONFER WITH MECHANICAL PLANS AND SPECIFICATION TO COORDINATE AND PROVIDE FOR ALL FIRE MEASURE CONTROLS AND MONITORING AS REQUIRED AT THE FIRE ALARM CONTROL CENTRE.
- ALL MOTORS SHALL BE FITTED WITH A DISCONNECT SWITCH BY DIVISION 16.
- ALL CONDUITS SHALL BE #12 RING AND LARGER AS REQUIRED BY MCA & VOLTAGE DROP. (DIV. 15) & INSTALLED BY ELEC. (DIV. 16).
- ELECTRICAL CONTRACTOR TO REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS AND:
  - PROVIDE OUTLETS AS REQUIRED FOR "HEAT TRACE".
  - PROVIDE "WIRING" AND CONNECTION AS REQUIRED FOR MECHANICAL EQUIPMENT INCLUDING DAMPER CONTROL.
- ALL PARADE FANS SHALL BE PROVIDED WITH LOCKABLE DISCONNECT SWITCHES.
- ALL THREE PHASE MOTOR STARTERS TO HAVE SINGLE PHASE PROTECTION.

**REMARKS:**

- PROVIDE A SEPARATE EM CIRCUIT FOR ALARM CONTROLS) C/W CONNECTIONS TO FLOORS AND ROOF TOP ALARM IN THE LOBBY.
- CONTROLLED BY REDUCED VOLTAGE STARTERS AS SUPPLIED BY MCA (DIV. 15) & INSTALLED BY ELEC. (DIV. 16).
- PROVIDE G.F.I. PROTECTION TO CODE.
- PROVIDE AND INSTALL A LOCK AND KEY AT THE DISCONNECT SWITCH.
- INTERLOCK WIRING TO ODC BY DIV. 15.
- CONTROL WIRING BY DIV. 15.

**LEGEND:**

- E = COMPLETE INSTALLATION BY DIV. 15
- M = COMPLETE INSTALLATION BY DIV. 15
- C = SUPPLIED + MOUNTED BY DIV. 15 AND WREID BY DIV. 16
- B = CONDUIT BY DIV. 16 AND WIRING BY DIV. 15

ITEM	SERVICE	HP	KW	VOLT	Ø	FLA	MCA	CIRCUIT	FEEDER	BREAKER	REMARKS	LOCATION
F-1	GROUND FL. WASHRM EXHAUST FAN	1/4	120	1					15A/1P			
F-2	3RD FL. WASHROOM EXHAUST FAN	0.04	120	1					15A/1P			
F-3	BOARDROOM TRANSFER FAN	0.08	120	1					15A/1P			
F-4	MEETING ROOM TRANSFER FAN	0.08	120	1					15A/1P			
F-5	ELEV. MACHINE RM EXHAUST FAN	0.11	120	1					15A/1P			
UH-1	GAS FIRED UNIT HEATER	0.28	120	1					15A/1P			WAREHOUSE
UH-1	GAS FIRED UNIT HEATER	0.28	120	1					15A/1P			WAREHOUSE
UH-1	GAS FIRED UNIT HEATER	0.28	120	1					15A/1P			WAREHOUSE
UH-1	GAS FIRED UNIT HEATER	0.28	120	1					15A/1P			WAREHOUSE
UH-1	GAS FIRED UNIT HEATER	0.28	120	1					15A/1P			WAREHOUSE
UH-1	GAS FIRED UNIT HEATER	0.28	120	1					15A/1P			WAREHOUSE
CF-1	CEILING FANS	0.08	120	1					15A/1P			WAREHOUSE

# FIXTURE SCHEDULE

**NOTES:**

- LIGHTING IS DESIGNED TO COMPLY WITH ENERGY CODE. THE CONTRACTOR SHALL NOT CHANGE LIGHTING WITHOUT ENGINEERS APPROVAL.
- PARADE LIGHTING LOCATED IN SPRAY-ON INSULATION SHALL BE SET DOWN TO CLEAR THE INSULATION.
- LIGHTING IN MECHANICAL ROOMS TO BE SUSPENDED AS NECESSARY TO CLEAR MECHANICAL LINES AND DUCTS.
- LIGHTING IN SPRINKLER MECHANICAL ROOMS AND ELECTRICAL ROOMS SHALL BE ON EM POWER.
- SURFACE MOUNTED WALL LIGHTS SHALL NOT BE SET LOWER THAN 6'-8" (205mm) TO CENTER OF OUTLET BOX WITHOUT SPECIAL PERMISSION FROM ELECTRICAL INSPECTOR.
- ALL RECESSED LIGHTS LOCATED IN INSULATED CEILING MUST BE SUPPLIED C/W I.C. RATED HOLDINGS.
- ANY CONTRACTOR PROPOSED ALTERNATE LIGHT FIXTURE IN LIEU OF SPECIFIED SHALL BE SUBJECT OF APPROVAL BY THE DESIGNER AND ENGINEER. SUBMIT A BREAKDOWN OF COST SHOWING THE NET DIFFERENCE TO THE TENDER PRICE IF ACCEPTED, INCLUDE FEE AND ASSUME RESPONSIBILITY FOR ANY ADDITIONAL COST INCURRED BY OTHER DISCIPLINES AND TRADES, RESULTING FROM SUBSTITUTION AS WELL AS LIGHTING SYSTEM PERFORMANCE.

TYPE	DESCRIPTION	LOCATION	LAMP	MOUNTING
1	LITHONIA THR-400M	WAREHOUSE	1-400W M.H.	SUSPENDED
2	LITHONIA THR-250M	WAREHOUSE - KITCHENETTE, OFFICE	1-250W M.H.	SURFACE/CEILING
3	PACE SMMR-100M	EXTERIOR	1-100W M.H.	SURFACE/CEILING
4	LITHONIA THP-400M	SHIPPING/RECEIVING	1-400W M.H.	SUSPENDED
5	LITHONIA LP6F-BLD3	SHOWER ROOM	1-PL26 TRT	RECESSED/CEILING
6	LITHONIA AFV-84R-1/32TRT	CORRIDOR	1-PL32 TRT	RECESSED/CEILING
7	-	H/C WASHROOM	2-60W	WALL MOUNTED
8	LITHONIA S132-GB	STAFF ROOM 202	1-F32 TB 3500K	SURFACE W/D IN VALENCE
9	PACE SCMM-32TRT	EXTERIOR LIGHTING	1-PL32 TRT	SURFACE/WALL
10	PACE SCMM-100M	EXTERIOR LIGHTING	1-100W M.H.	SURFACE/WALL
11	PACE SCMM-70W	EXTERIOR LIGHTING	1-70W M.H.	SURFACE/WALL
12	CANLET QM18-HI-D-GHC	ELEVATOR PIT	1-PL18 TRT	SURFACE/WALL
13	LITHONIA PRMA SERIES	OFFICES	2-F32 TB 3500K	SUSPENDED INDIRECT
14	LITHONIA 0732	FIRST AID ROOM	2-F32 TB 3500K	RECESSED/CEILING
15	LITHONIA P232-GB	WASHROOM	2-F32 TB 3500K	RECESSED/CEILING
16	-	MEZZANINE	2-F32 TB 3500K	SUSPENDED
17	LITHONIA P232-GB	ELEV. MACH. ROOM	2-F32 TB 3500K	SURFACE/CEILING
18	-	ROOF DECK	-	MOUNTED ON GROUND

ALL RIGHTS RESERVED. PROPERTY OF  
 BEYOND ARCHITECTURE. USE  
 OR REPRODUCTION PROHIBITED.  
 WITHOUT PRIOR WRITTEN PERMISSION.

THE GENERAL CONTRACTOR SHALL REVIEW THE  
 DRAWINGS FOR CONFORMANCE WITH THE  
 REQUIREMENTS OF THE BUILDING DEPARTMENT  
 AND SHALL BE RESPONSIBLE FOR ANY  
 DISCREPANCIES OR OMISSIONS. THE GENERAL  
 CONTRACTOR SHALL VERIFY AND CORRECT ALL  
 DISCREPANCIES AND REPORT ALL ERRORS AND  
 OMISSIONS TO THE ARCHITECT.  
 THE ARCHITECT SHALL BE RESPONSIBLE FOR  
 ARCHITECTURAL INFORMATION ONLY. THESE  
 DRAWINGS FOR INFORMATION ARE ADVISED TO  
 BE USED FOR ELECTRICAL, MECHANICAL,  
 STRUCTURAL, AND INTERIOR DESIGN.  
 ENGINEERING DRAWINGS FOR INFORMATION RELATING  
 TO THESE DISCIPLINES.

FEB. 12/01 ISSUED FOR BUILDING PERMIT

DATE REVISIONS

Maxem Holdings Inc.

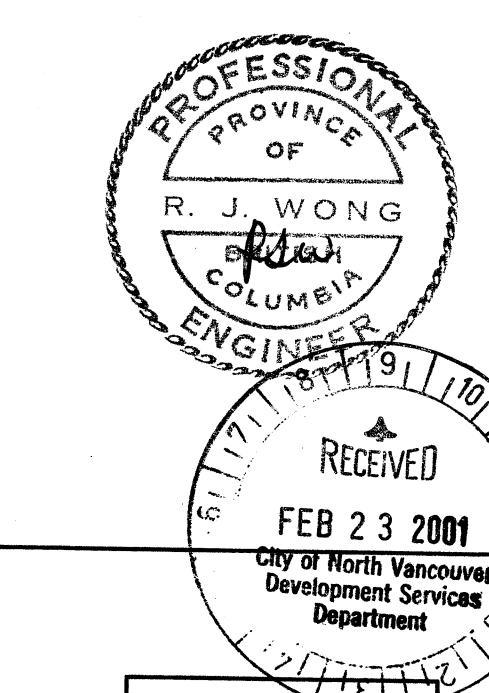
Office / Warehouse

758 Harbourside Avenue  
North Vancouver

SCHEDULES

ARNOLD NEMETZ & ASSOCIATES LTD.

2000 WEST 4TH AVENUE, VANCOUVER, B.C. CANADA V6J 1N3  
 TEL: (604) 736-6562 FAX: (604) 736-5805  
 E-MAIL: ENGINEERS@NEMETZ.COM

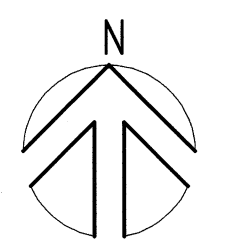


E-10

DATE: N.T.S. PROJECT: 8109

DRAWN: DRP/DW DATE: FEB. 5, 2001

Plot Date: February 19, 2001 - 6109



**CITY OF NORTH VANCOUVER**  
ENGINEERING DEPT.  
**REVIEWED**  
OFF SITE INFORMATION NOTED ONLY  
GRADE: WATER: 1.2  
SEWER: 1.2  
DRAINAGE: 1.2  
DATE: 04/16/01  
This review does not confirm the accuracy of the design. The City does not accept responsibility for any costs or damages incurred due to errors, omissions or omissions in the design.  
LANDSCAPING  
Drawings and plans to be maintained by owner.  
DATE: 04/16/01

REVISION: DATE: NOTES:  
- MAY.30/01 RE-ISSUED FOR B.P.  
- APR.27/01 ISSUED FOR TENDER  
- FEB.19/01 ISSUED FOR B.P.

**MAXEM HOLDINGS INC.**

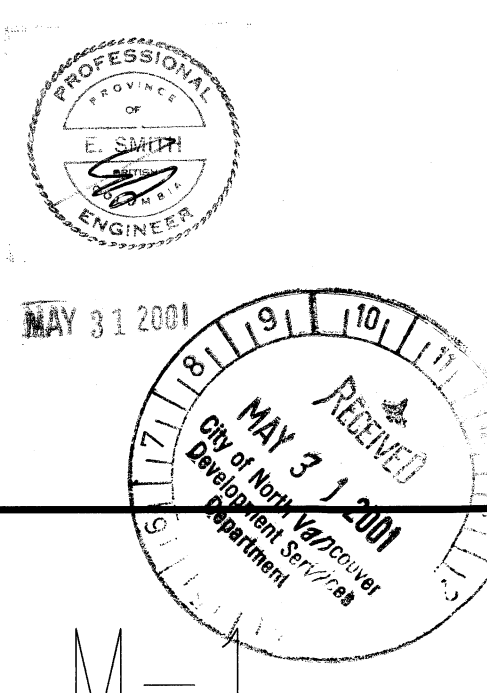
OFFICE / WAREHOUSE  
HARBORSIDE AVENUE

CITY OF NORTH VANCOUVER

PLAN:  
Site Plan

**VEL ENGINEERING**  
CONSULTING MECHANICAL ENGINEERS

Site 305 - 1200 West Fraser St  
Vancouver, BC V6E 2S9  
Tel : (604) 687-1800  
Fax : (604) 687-1802  
E-MAIL : info@veleng.com  
VEL JOB# 6195-00



SCALE: AS NOTED  
PROJECT: 6195-00  
DRAWN: DATE:

MECHANICAL LEGEND			
SANITARY DRAIN	SAN	SANITARY DRAIN - BURIED	SAN
STORM DRAIN	STU	STORM DRAIN - BURIED	STU
VENT PIPE	V	INDIRECT DRAIN	D
COLD WATER	W	HOT WATER	HW
HEAT TRACE	HT	HOT WATER RECIRC.	HW RECIRC.
GAS LINE	G	HOT WATER RECIRC.	HW RECIRC.
CLEANOUT	CO	HOSE BIB	H.B.
FLOOR DRAIN	FD	ROOF DRAIN	R.D.
PLUMBING FIXTURE TAG	L-1	HUB DRAIN	H.D.
SPRINKLER - UPRIGHT	U	SPRINKLER - PENDANT	P
SPRINKLER - SIDEWALL	S	SPRINKLER - DRY SIDEWALL	DS
SPRINKLER SUPPLY - WET	SPR	SPRINKLER SUPPLY - DRY	SDR
FIRE PROTECTION SUPPLY	F	SMAMESE CONNECTIONS	SC
FIRE HOSE CABINET	HC	FIRE EXTINGUISHER / RECESSED	EX
ZONE CONTROL VALVE	ZCV	FIRE HYDRANT	HY
ELBOW RISING / DROPPING	ER	P & T RELIEF VALVE	PT
SHUT-OFF VALVE	SOV	BAUMANN/ROTHWALD VALVE	BR
CHECK VALVE	CV	PIBBS/UNDERBERG VALVE	UB
UNION OR FLANGE	U	FLEXIBLE CONNECTION	FC
STRAINER - Y OR BASKET	Y	PUMP	P
AUTOMATIC AIR VENT	AAV	ANCHOR	A
CAP OR PLUG	CAP	PRESSURE GAUGE	PG
THERMOSTAT	T	SPEED SWITCH	SS
THERMOMETER	TM	WATER METER	WM
SUPPLY DUCT (UP & DOWN)	SD	RETURN DUCT (UP & DOWN)	RD
EXHAUST DUCT (UP & DOWN)	ED	O.A. DUCT (UP & DOWN)	OAD
ROUND DUCT (UP & DOWN)	RD	FLEXIBLE DUCT	FD
MANUAL DAMPER	MD	SPLITTER	S
MOTORIZED DAMPER	MD	MOTORIZED DAMPER (2 POSTION)	MD2
SUPPLY OUTLET	SO	DIFFUSER	D
RETURN OR EXHAUST INLET	REI	RETURN OR EXHAUST INLET	REI
DOOR GRILLE - UNDERCUT	UG	FIRE OR SMOKE DAMPER	FSD
TURNING VANES	TV	CEILING ACCESS PANEL	AP
ACOUSTIC LINED DUCTWORK	ALD	ACCESS DOOR	AD
AIR OUTLET OR INLET	AOI	ELECTRIC BASEBOARD HEATER	EBH

**SPRINKLER PERFORMANCE SPECIFICATIONS**

- BUILDING SHALL BE ENTIRELY SPRINKLERED IN ACCORDANCE WITH THE DIVISION 5 SPRINKLER SYSTEM SPECIFICATIONS, NFPA 13, AND NFPA 213C STANDARDS. SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED BASED ON THE FOLLOWING CRITERIA:

AREA	SYSTEM	DENSITY GPM/FT <sup>2</sup>	DESIGN AREA (FT <sup>2</sup> )	HAZARD GROUP	MAX AREA PER HEAD (FT <sup>2</sup> )
OFFICE AREAS	WET	0.10	1800	LIGHT	225
MECHANICAL/ SERVICE	WET	0.16	1500	ORD. GROUP 1	150
WAREHOUSE	WET	NFPA 213C	12 HEADS	ESFR SYSTEM	-
STORAGE	WET	0.10	1500	LIGHT	225
- PROVIDE SEISMIC SWAY BRACINGS IN ACCORDANCE WITH NFPA 13 AND B.C. BUILDING CODE ON STANDPIPE AND SPRINKLER SYSTEM.
- REVIEW MECHANICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR DETAILS AND CO-ORDINATE CO-ORDINATE FINAL PIPE ROUTES WITH OTHER SUB-TRADES AND GENERAL CONTRACTOR BEFORE START OF SHOP DRAWINGS.
- WAREHOUSE TO BE HYDRAULICALLY DESIGNED TO NFPA-213C REQUIREMENTS FOR HIGH PILED RACK STORAGE USING 30" HIGH WAREHOUSE HEIGHT WITH 29" HP HIGH RACKS FOR CLASS IV COMMODITIES (ENCAPSULATED) USING K-14 HEADS PROVIDE 15 Pw/g AT HEAD, USING K-25 HEADS PROVIDE 30 Pw/g @ HEAD.
- PROVIDE 1/2" HOSE CONNECTIONS IN WAREHOUSE C/W 100' L OF HOSE AS PER SCHEMATIC DRAWINGS.
- PROVIDE ADDITIONAL HEADS UNDER OBSTRUCTION IN WAREHOUSE AS NECESSARY TO MEET ESFR SYSTEM REQUIREMENTS.
- WAREHOUSE TO BE DESIGNED FOR ESFR SYSTEM. NO IN RACK SPRINKLER SYSTEM WILL BE CONSIDERED AS EQUIVALENT.
- PROVIDE FIRE EXTINGUISHERS THROUGHOUT BUILDING TO NFPA-10 REQUIREMENTS. ALLOW FOR FULLY RECESSED CABINETS TO BE COORDINATED WITH ARCHITECTURAL.

**DRAWING LIST:**

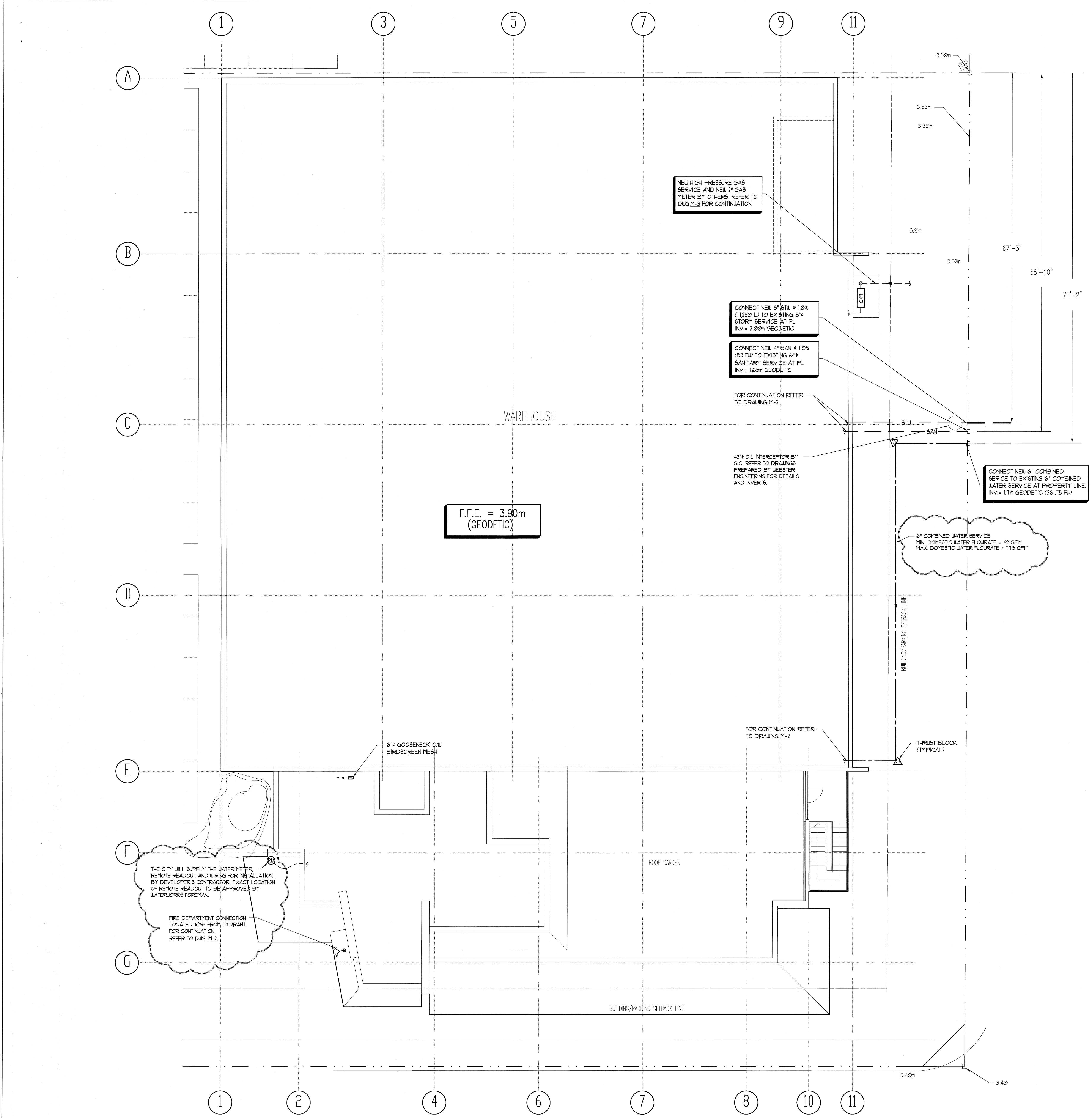
DWG. No.	DESCRIPTION (TITLE)	SCALE
M-1	SITE PLAN - MECHANICAL	1/8"
M-2	FOUNDATION PLAN - MECHANICAL	1/8"
M-3	GROUND FLOOR PLAN - MECHANICAL	1/8"
M-4	SECOND FLOOR PLAN - MECHANICAL	1/8"
M-5	THIRD FLOOR PLAN - MECHANICAL	1/8"
M-6	DETAILS & SCHEDULES - MECHANICAL	N.T.S.
M-7	SPECIFICATIONS - MECHANICAL	N.T.S.

**CIVIC ADDRESS:**  
738 HARBORSIDE DRIVE  
CITY OF NORTH VANCOUVER  
**LEGAL DESCRIPTION:**  
LOTS 26 AND 27 - DISTRICT LOT 2654  
GROUP 1 N.W. PLAN 45927

FOR GAS COMPANY	
EQUIPMENT	INPUT
DWH-1	100 MBH
UH-12,3,4,5 & 6	6 * 250 MBH
TOTAL	1650 MBH

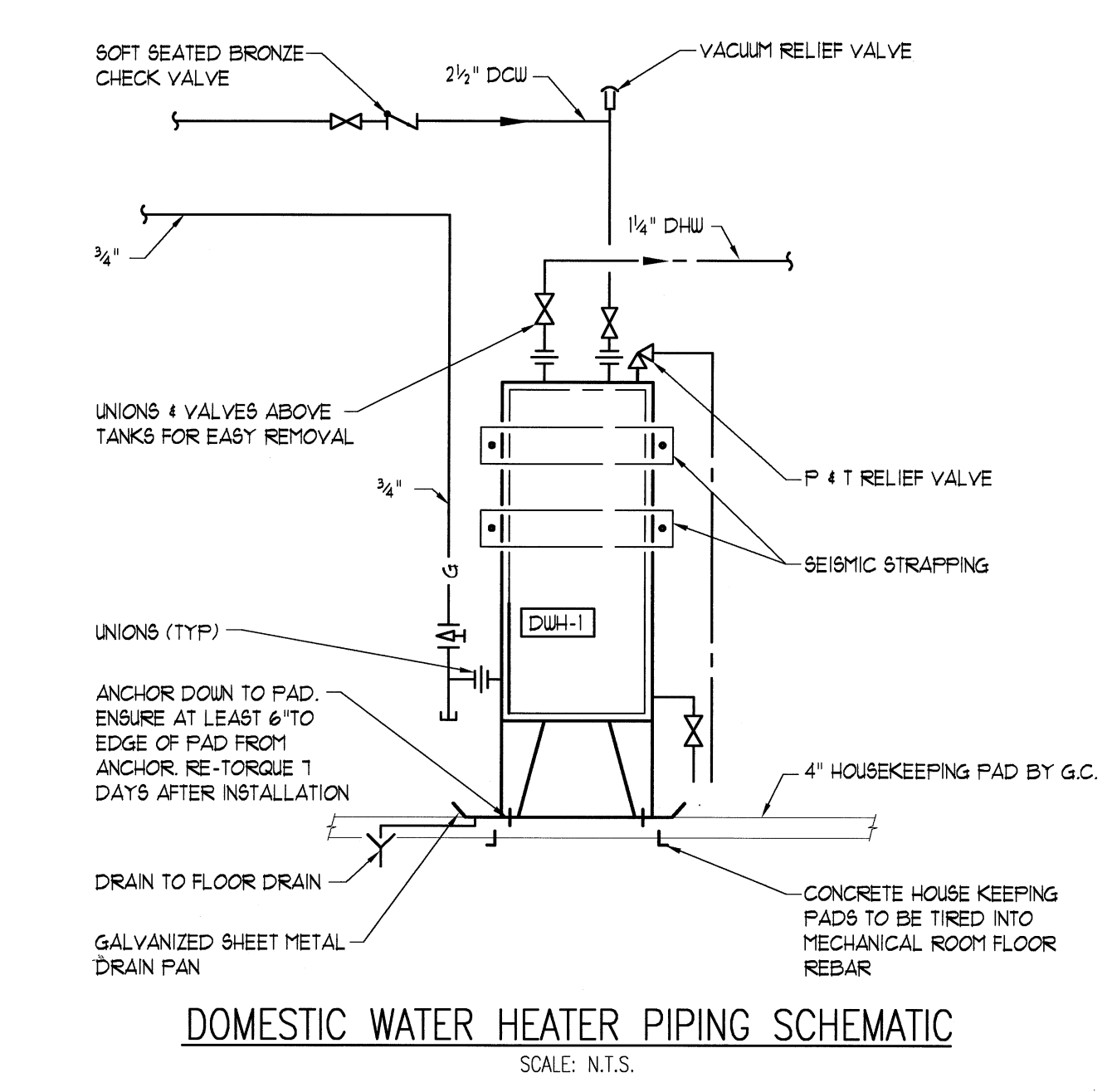
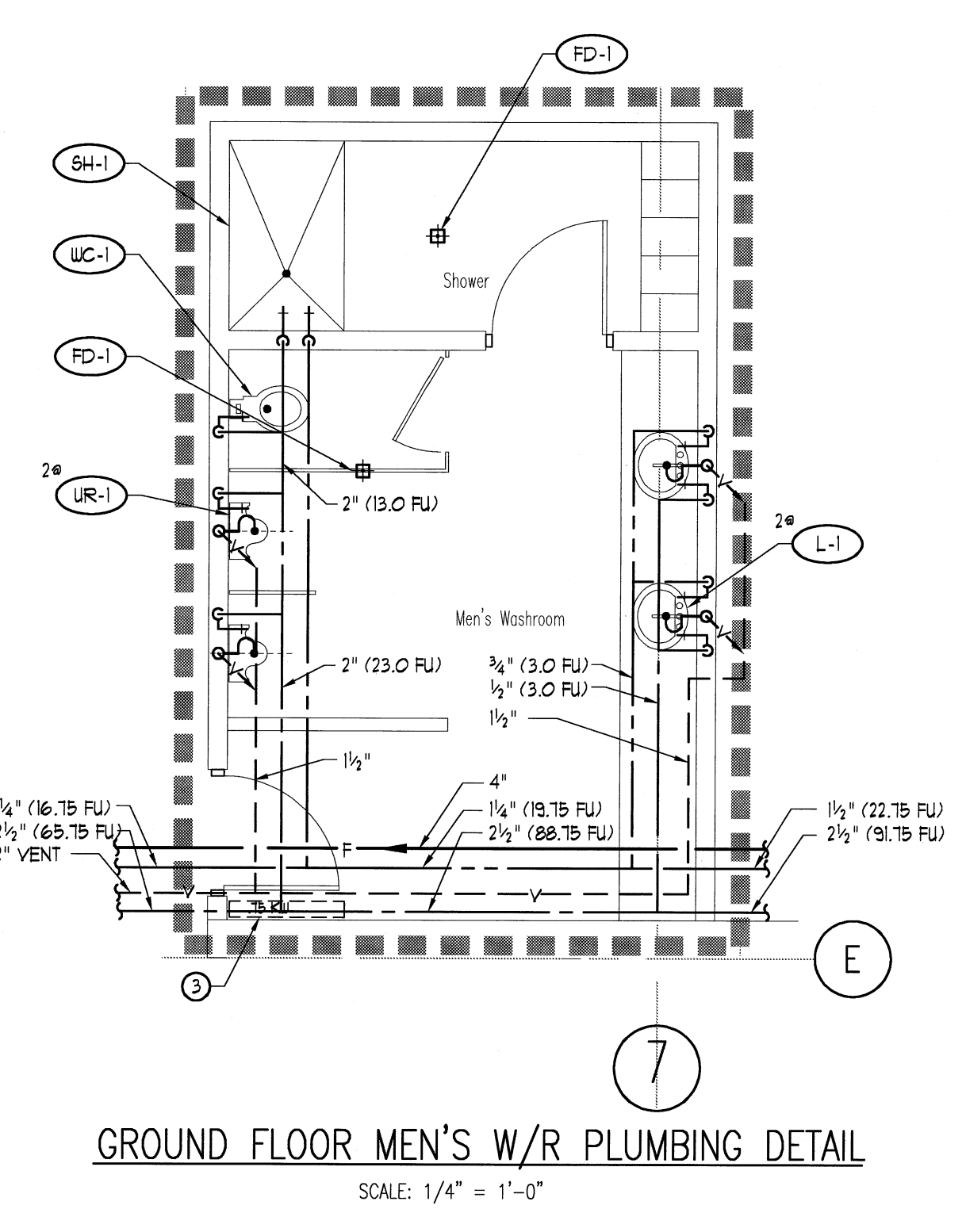
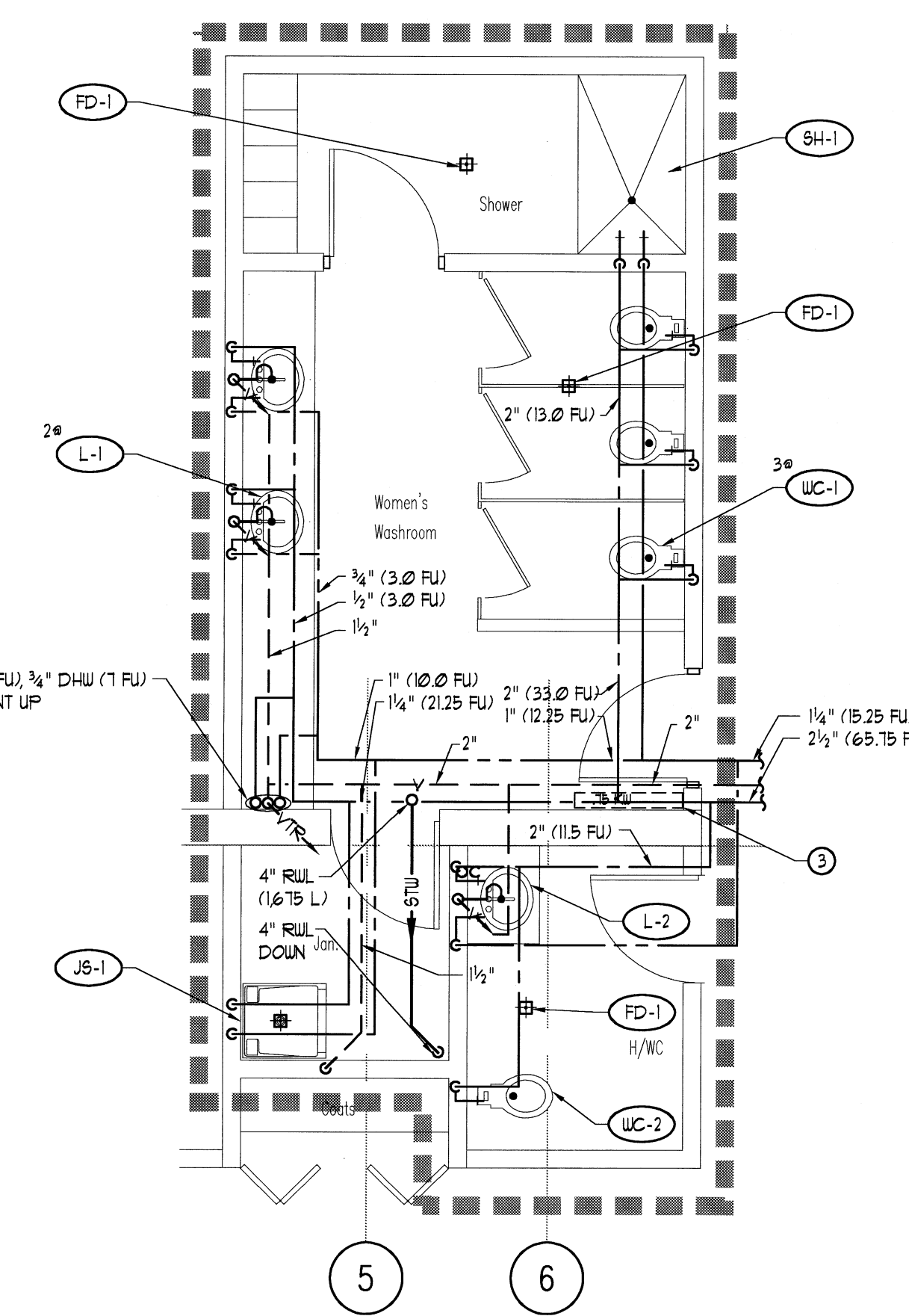
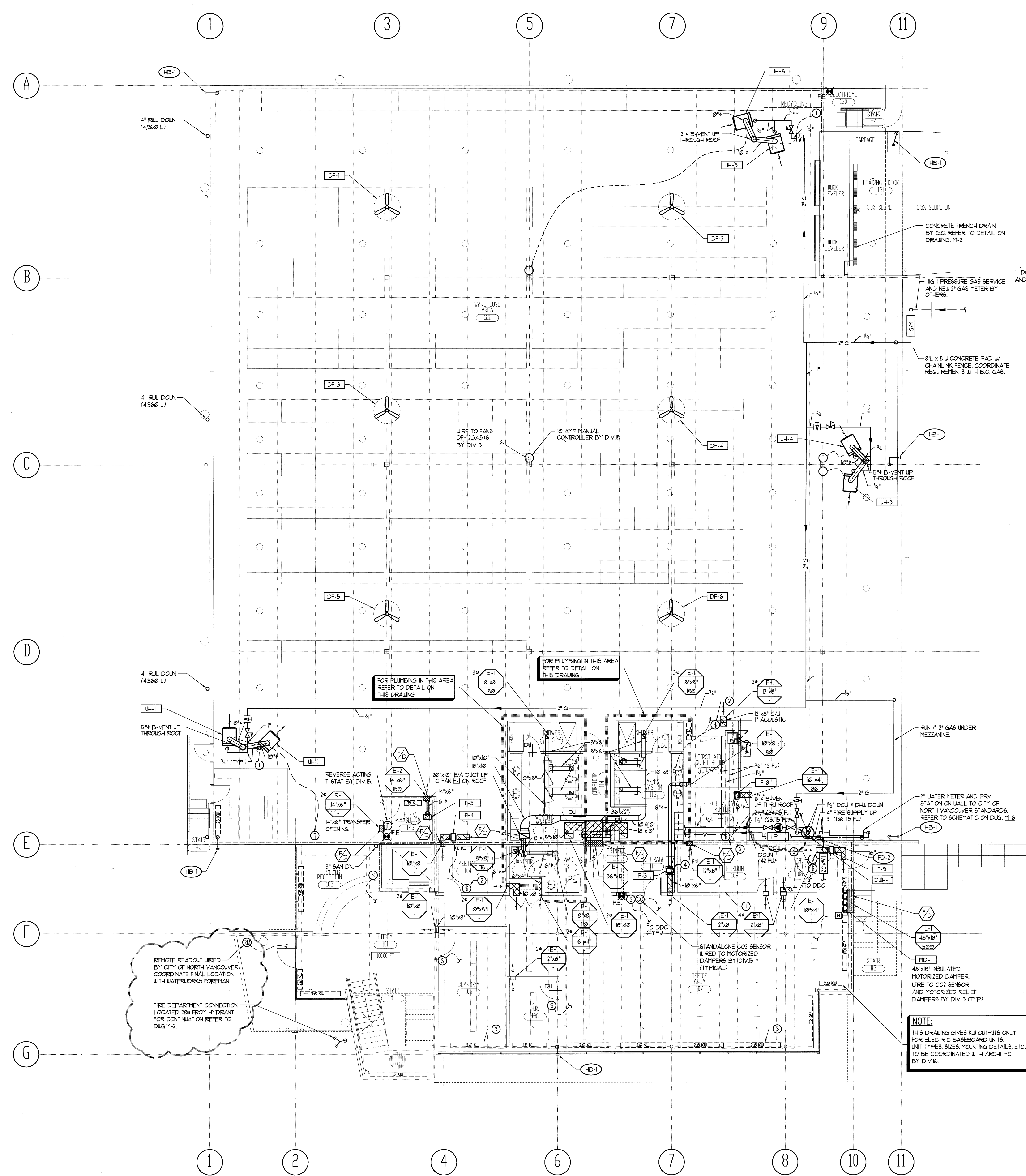
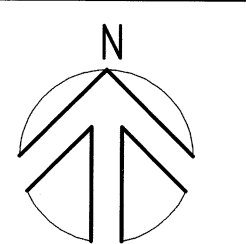
MINIMUM DISTANCE BETWEEN GAS LINE AND UNDERGROUND SERVICES - 3'-0"

**FOR MECHANICAL CONTRACTOR**  
PRIOR TO COMMENCING INSTALLATION WITHIN THE BUILDING, THE MECHANICAL CONTRACTOR SHALL CHECK THE LOCATION AND INVERT ELEVATIONS OF ALL SERVICE LINES INCLUDING SANITARY SEWER, STORM SEWER, WATER MAINS, AND GAS MAINS WITH LOCAL AUTHORITIES TO INSURE THAT THESE SERVICES CAN BE INSTALLED AS SHOWN.



**SITE PLAN - MECHANICAL**  
SCALE: 1/8" = 1'-0"  
BARSCALE: 1/8" = 1'-0"





**KEYED NOTES**

- 1 EXISTING SANITARY DUCTLESS SPLIT SYSTEM MODEL KS21U INDOOR UNIT AND CO21 OUTDOOR UNIT SUPPLIED BY OWNER. MECHANICAL CONTRACTOR TO INSTALL WITH NEW REFRIGERANT AND CONDENSATE LINES.
- 2 ON/OFF CONTROL SWITCH BY DIV.16.
- 3 ELECTRIC BASEBOARD HEATER CAU INTEGRAL THERMOSTAT BY DIV. 16. COORDINATE EXACT LOCATION ON SITE (TYPICAL).
- 4 PROVIDE ACCESS PANEL TO SERVICE EXHAUST FAN (TYPICAL FOR CEILING). (TYPICAL FOR CEILING).

**NOTE:**  
THIS DRAWING GIVES KW OUTPUTS ONLY FOR ELECTRIC BASEBOARD UNITS. UNIT TYPES, SIZES, MOUNTING DETAILS, ETC. TO BE COORDINATED WITH ARCHITECT BY DIV.16.

**GROUND FLOOR - MECHANICAL**  
SCALE: 1/8" = 1'-0"  
BARSCALE: 1/8" = 1'-0"

**MAXEM HOLDINGS INC.**

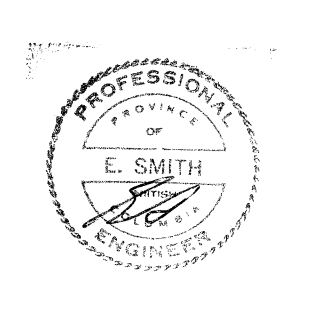
OFFICE / WAREHOUSE  
HARBORSIDE AVENUE

CITY OF NORTH VANCOUVER

PLAN:  
**Ground Floor Plan**

**VEL ENGINEERING**  
CONSULTING MECHANICAL ENGINEERS

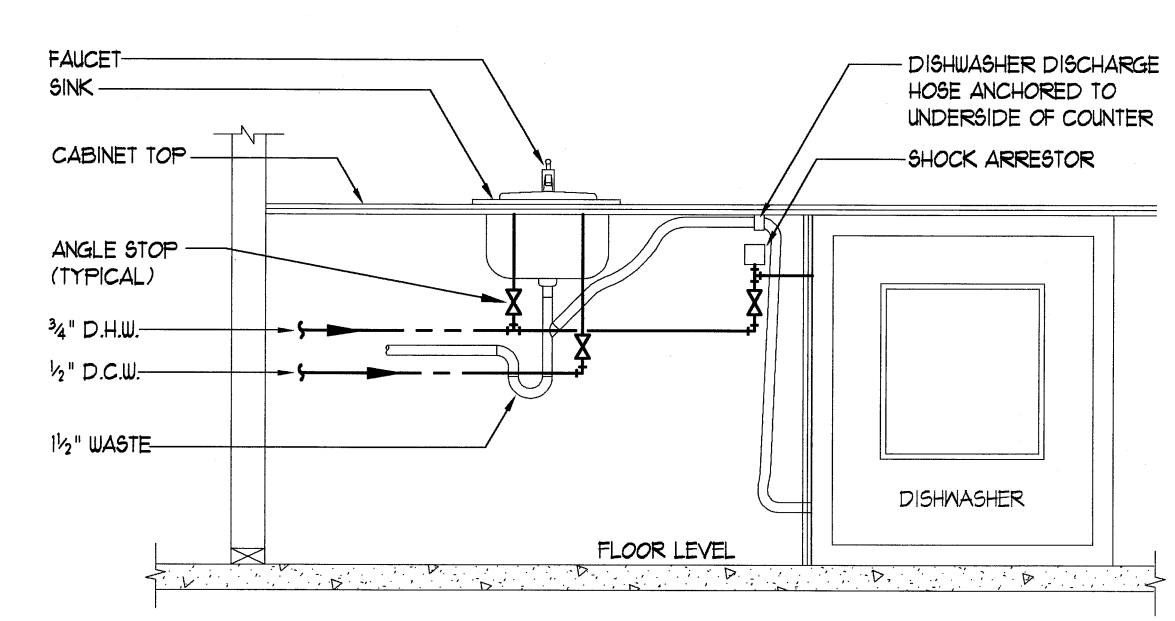
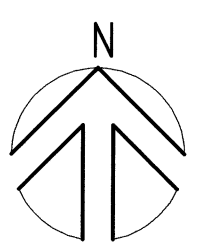
Suite 305 - 1200 West Pender St  
Vancouver, BC V6E 2R8  
Tel: (604) 687-1800  
Fax: (604) 687-1802  
E-Mail: info@veleng.com  
**VEL JOB# 6195-00**



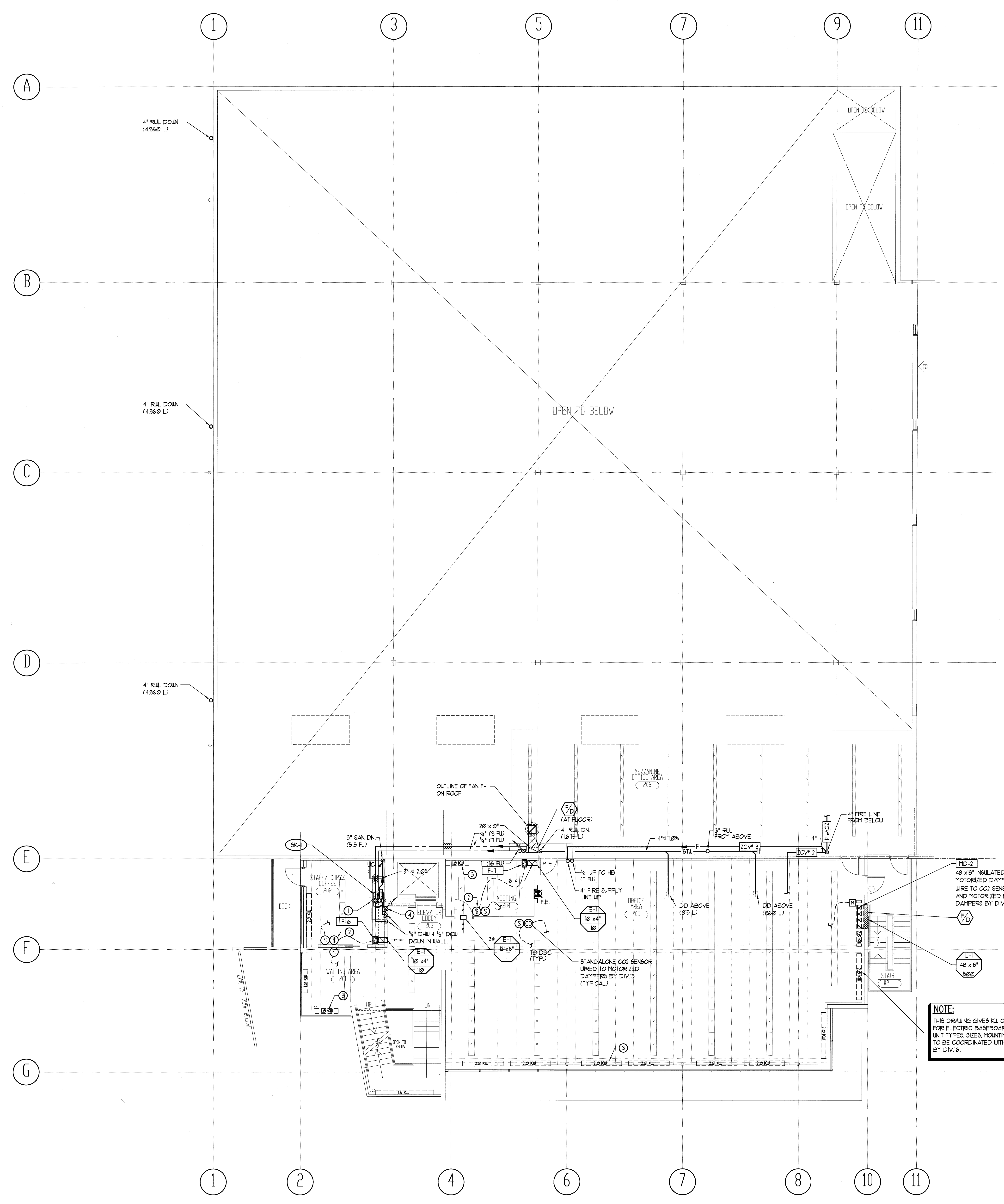
SCALE: AS NOTED	PROJECT: 6195-00
DRAWN: -	DATE: -



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DISHWASHER CONNECTION DETAIL  
N.T.S.



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

**NOTE:**  
THIS DRAWING GIVES R/U OUTPUTS ONLY FOR ELECTRIC BASEBOARD UNITS. UNIT TYPES, SIZES, MOUNTING DETAILS, ETC. TO BE COORDINATED WITH ARCHITECT BY DIV. 5.

**KEYED NOTES:**

- ① 1/2" DCU (6.5 R/U) AND 1/2" DHU UP TO WASHROOM ABOVE.
- ② ON/OFF CONTROL SWITCH BY DIV. 16.
- ③ ELECTRIC BASEBOARD HEATER (W/ INTEGRAL THERMOSTAT BY DIV. 16. COORDINATE EXACT LOCATION ON SITE (TYPICAL)).
- ④ RUN SANITARY DRAIN FOR SINK AND DISHWASHER UNDER COUNTER AND CONNECT TO 3" SANITARY STACK.

MAXEM HOLDINGS INC.

OFFICE / WAREHOUSE  
HARBORSIDE AVENUE

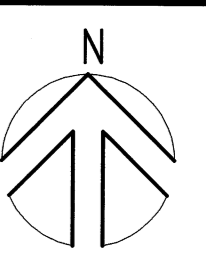
CITY OF NORTH VANCOUVER

PLAN:  
Second Floor  
Plan

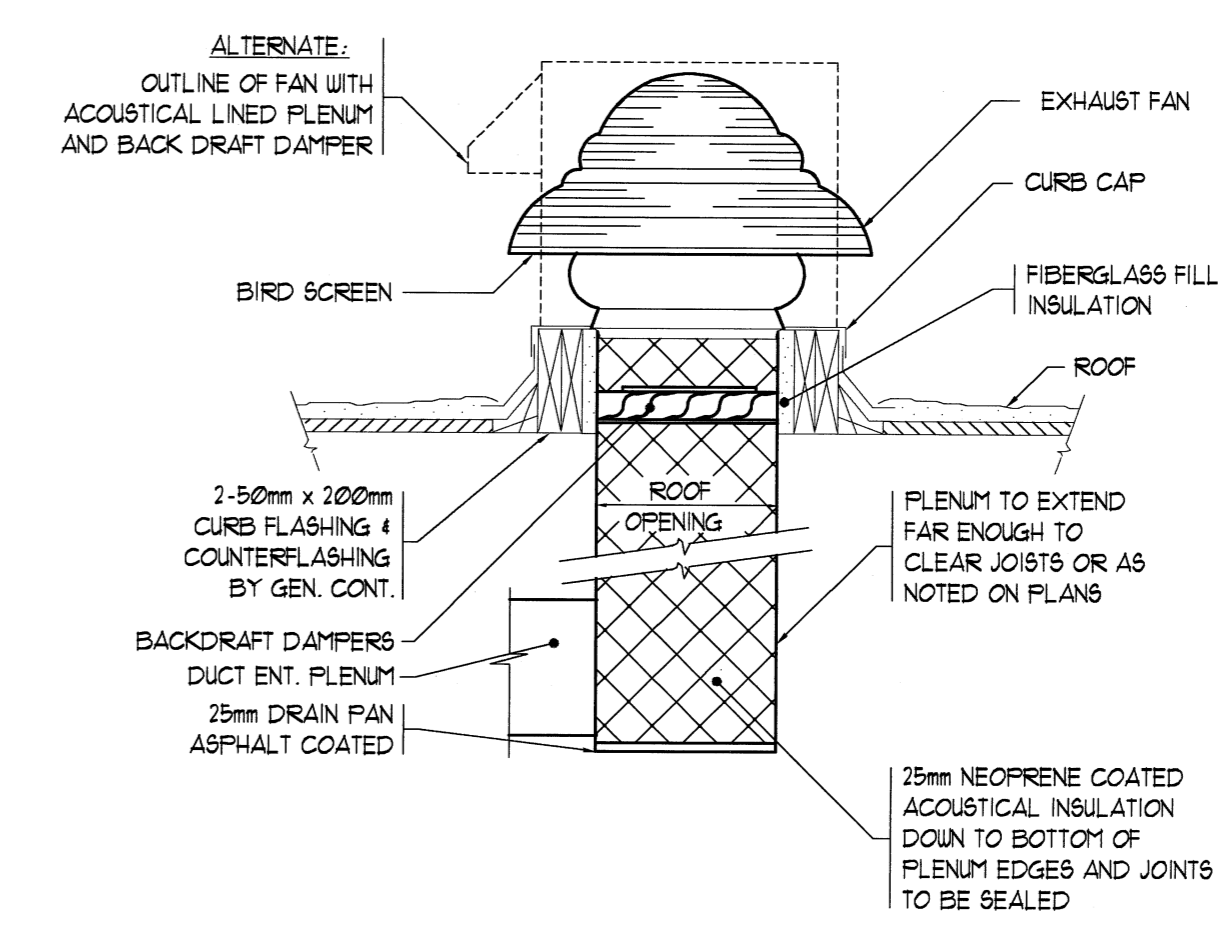
**VEL ENGINEERING**  
CONSULTING MECHANICAL ENGINEERS  
Suite 305 - 1200 West Pender St  
Vancouver, BC V6E 2E9  
Tel: (604) 687-1800  
Fax: (604) 687-1800  
E-Mail: info@veleng.com  
VEL JOB# 6195-00

MAY 3 1 2001  
RECEIVED  
MAY 3 1 2001  
City of North Vancouver  
Development Services  
Department

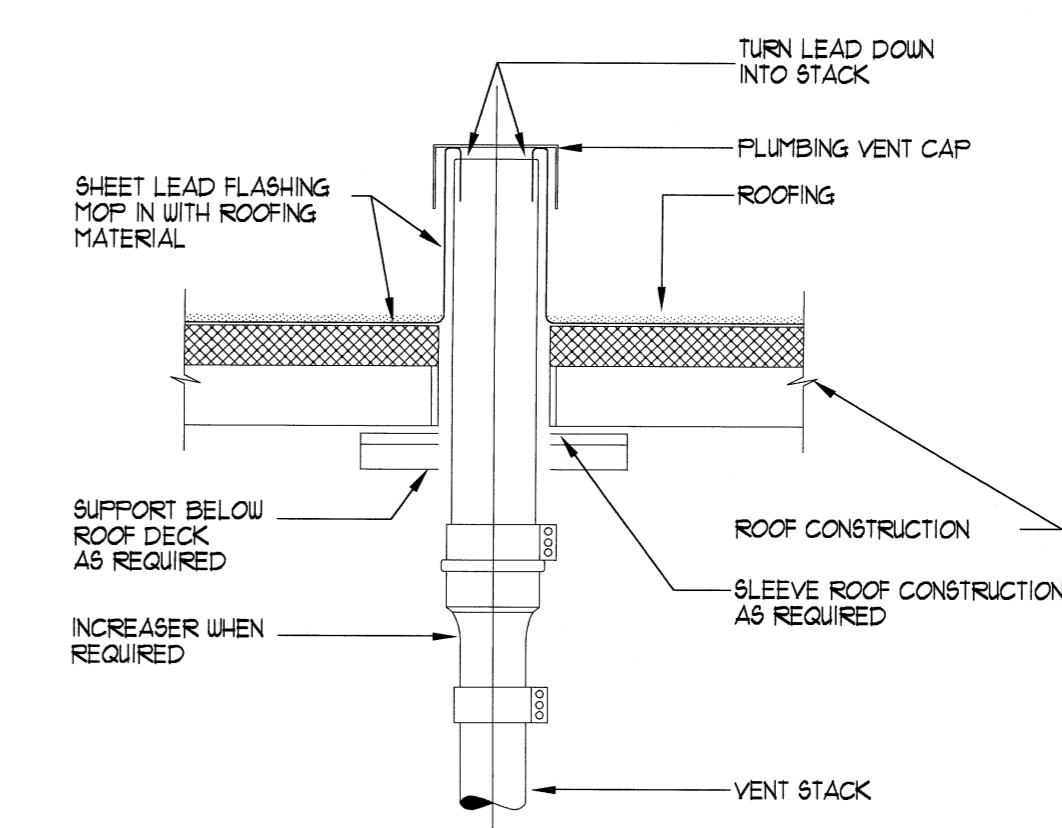
SCALE: AS NOTED	PROJECT: 6195-00
DRAWN: -	DATE: -



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



TYPICAL ROOF MOUNTED EXHAUST FAN DETAIL  
N.T.S.



PLUMBING VENT ROOF PENETRATION DETAIL  
N.T.S.

REVISION	DATE	NOTES
-	MAY.30/01	RE-ISSUED FOR B.P.
-	APR.27/01	ISSUED FOR TENDER
-	FEB.19/01	ISSUED FOR B.P.

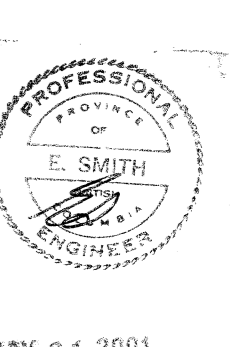
MAXEM HOLDINGS INC.

OFFICE / WAREHOUSE  
HARBOURSIDE AVENUE

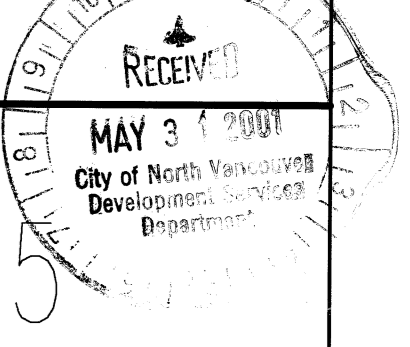
CITY OF NORTH VANCOUVER

PLAN:  
Warehouse  
Roof/Office  
Third Floor Plan

**VEL ENGINEERING**  
CONSULTING MECHANICAL ENGINEERS  
Suite 305 - 1200 West Pender St  
Vancouver, BC V6E 2S8  
Tel: (604) 687-1800  
Fax: (604) 687-1802  
E-MAIL: info@veleng.com  
VEL JOB# 6195-00



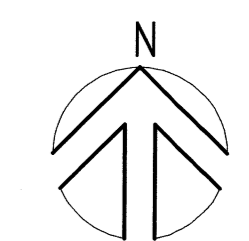
MAY 31 2001



KEYED NOTES

- ① ON/OFF CONTROL SWITCH BY DIV.6.
- ② ELECTRIC BASEBOARD HEATER C/W INTEGRAL THERMOSTAT BY DIV. 6. COORDINATE EXACT LOCATION ON SITE (TYPICAL.)

SCALE: AS NOTED	PROJECT: 6195-00
DRAWN: -	DATE: -



**CITY OF NORTH VANCOUVER ENGINEERING DEPT. REVIEWED**  
 OFF SITE INFORMATION NOTED ONLY  
 SEWERAGE  WATER   
 CIVIL   
 This review does not confirm the accuracy of the design. The City does not accept any responsibility for any costs or claims or any increase due to errors, omissions or corrections in the design.  
 LANDSCAPING  
 Shrubs and grass to be maintained by owner.  
 DATE: July 14, 2001  
 BY: [Signature]

REVISION:	DATE:	NOTES:
-	MAY.30/01	RE-ISSUED FOR B.P.
-	APR.27/01	ISSUED FOR TENDER
-	FEB.19/01	ISSUED FOR B.P.

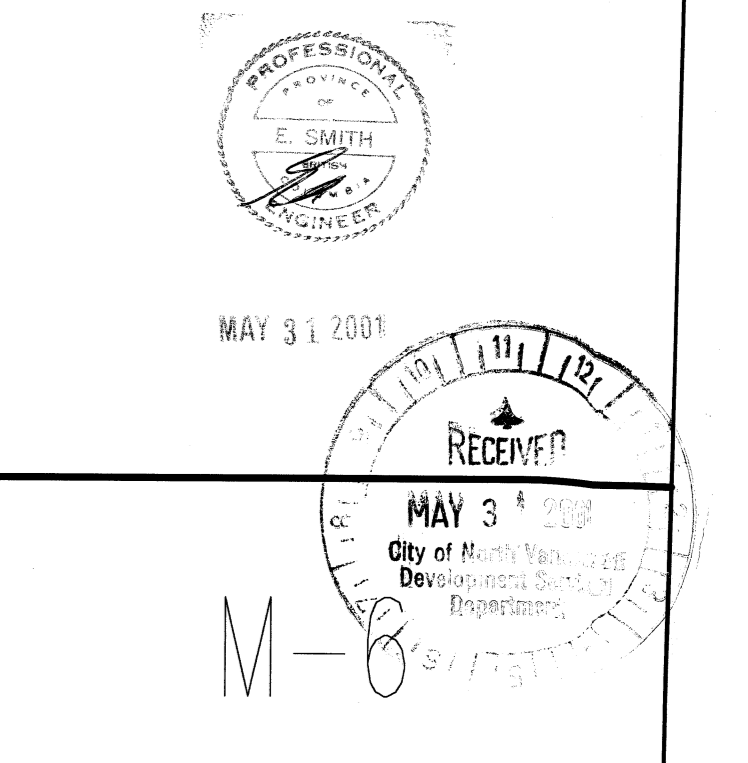
**MAXEM HOLDINGS INC.**

OFFICE / WAREHOUSE  
 HARBOURSIDE AVENUE

CITY OF NORTH VANCOUVER

PLAN:  
 Details & Schedules

**VEL ENGINEERING**  
 CONSULTING MECHANICAL ENGINEERS  
 Suite 305 - 1200 West Pender St.  
 Vancouver, BC V6E 2S9  
 Tel: (604) 681-1800  
 Fax: (604) 681-1800  
 E-Mail: info@veleng.com  
**TEL 604 6195-00**



SCALE: AS NOTED  
 DRAWN: [Blank]  
 PROJECT: 6195-00  
 DATE: [Blank]

**DIFFUSER SCHEDULE**

TAG No.	S-1	E-1	E-2	R-1	R-2	L-1
MANUFACTURER & TYPE	EH PRICE 300RFLAU	EH PRICE 300RFLAU	EH PRICE 300RFLAU	EH PRICE 300RFLAU	EH PRICE 300RFLAU	ALPHAVENT 4300
DESCRIPTION	LOWERED SUPPLY GRILLE	EGG CRATE EXHAUST/TRANSFER GRILLE	LOWERED EXHAUST GRILLE	LOWERED RETURN GRILLE	EGG CRATE GRILLE	INTAKE/EXHAUST LOUVER
FINISH	SELECT BY ARCHITECT	WHITE	SELECT BY ARCHITECT	SELECT BY ARCHITECT	WHITE	SELECT BY ARCHITECT
MOUNTING	SURFACE	SURFACE	SURFACE	SURFACE	1-BAR MOUNT	SURFACE
ACCESSORIES	C/U BALANCING DAMPER	-	-	-	-	1.5" FLANGE & INSECT SCREEN

**FAN SCHEDULE**

TAG No.	F-1	F-2	F-3 & F-3	F-4	F-5	F-6	F-7	F-8
LOCATION	WAREHOUSE ROOF	3RD FLOOR ROOF	FIRST AID ROOM / OFFICE 108	GROUND MTG RM	ELEV. MACHINE RM	STAFFROOM	2ND FLR. MTG RM	ELEC. DATA 100
SERVICE	W/R EXHAUST	W/R EXHAUST	TRANSFER	TRANSFER	EXHAUST	EXHAUST	TRANSFER	EXHAUST
MANUFACTURER	FENN	FENN	FENN	FENN	FENN	FENN	FENN	FENN
MODEL	DOYEX D101B	ZEPHYR Z34	ZEPHYR Z3HTDA	ZEPHYR Z3HTDA	Z64	ZEPHYR Z3H	ZEPHYR Z3H	ZEPHYR Z3H
CAP (CFM)	155	15	60	10	50	15	10	10
BP (%C)	0.25"	0.25"	0.25"	0.25"	0.25"	0.25"	0.25"	0.25"
FAN RPM	550	550	550	550	550	550	550	550
VOLTAGE/PHASE	200/1	200/1	200/1	200/1	200/1	200/1	200/1	200/1
MOTOR HP (WATTS)	1/4	33 WATTS	83 WATTS	83 WATTS	108 WATTS	33 WATTS	33 WATTS	33 WATTS
BOXES	1.3	2.3	2.1	2.0	3.0	2.3	2.0	2.0
NOTES	C/U B.O.D. BIRDSCREEN MESH & ROOF CURB	C/U GRILLE & WALL SWITCH	C/U WALL SWITCH	C/U WALL SWITCH	C/U GRILLE & REVERSE ACTING TSTAT BY DIV.5.	C/U GRILLE & WALL SWITCH	C/U GRILLE & WALL SWITCH	C/U GRILLE & WALL SWITCH

**GAS-FIRED UNIT HEATER SCHEDULE**

TAG No.	UH-1234546
LOCATION/SERVICE	WAREHOUSE
MANUFACTURER	REZNO
MODEL	F
CAPACITY (MBH)	200
AIR FLOW (cfm)	3360
RPM / RPM	850
TD (% C / F)	-
MOTOR (hp)	1/8
NOTES:	C/U VERTICAL LOUVERS SUSPENSION KITS AND THERMOSTAT & RELAY KITS.

**DHW TANK SCHEDULE**

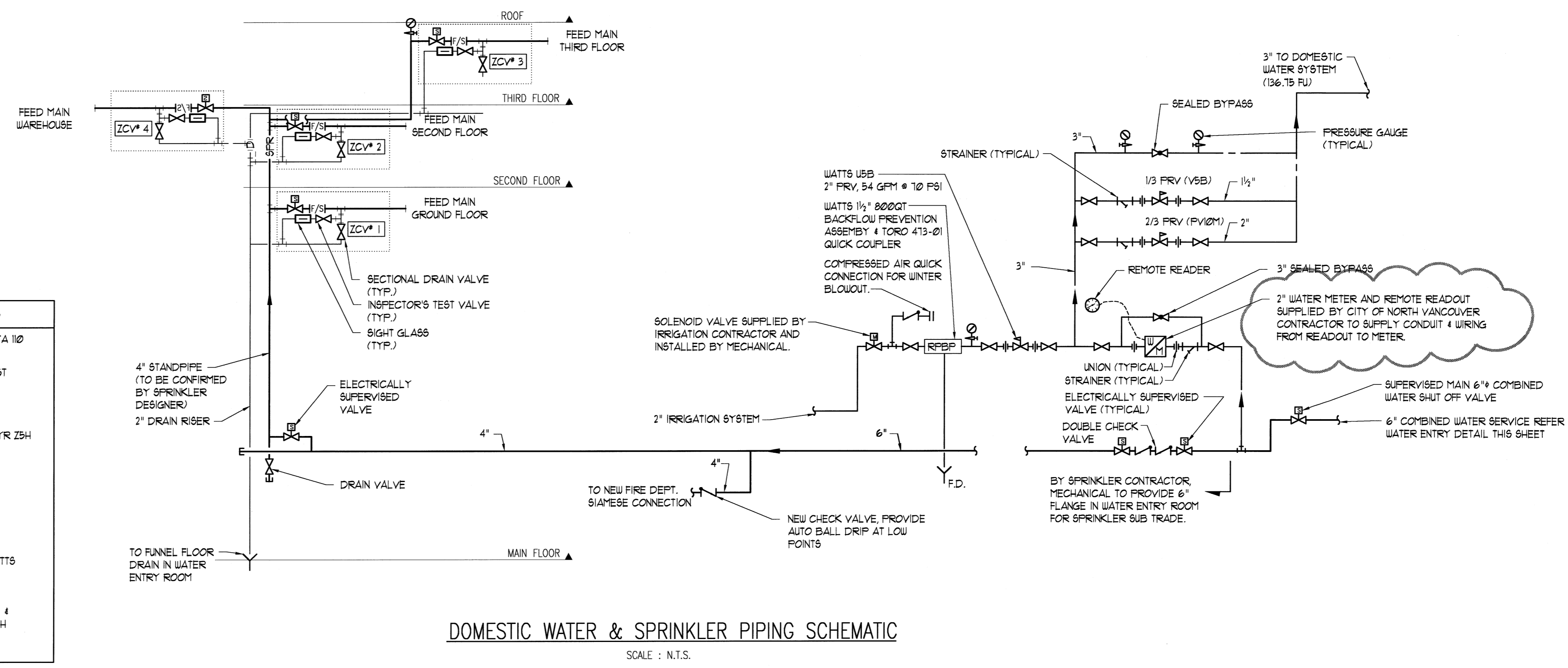
TAG No.	DWH-1
LOCATION	WAREHOUSE AREA UNDER MEZZ.
MAKE	RIEEMRAUD
MODEL	RD16-180C
GAS INLET (MBH)	180
STORAGE CAP. (USGPM)	76
RECOVERY (GPH @ 100°F) RATE	175
WEIGHT EMPTY (lbs)	540

**PLUMBING ROUGH-IN SCHEDULE**

TYPE	FIXTURE	SANITARY	C/U	H/W	VENT	REMARKS
WC	WATER CLOSET	3"	3/4" / 1 1/2"	-	1 1/2"	FLUSH TANK / FLUSH VALVE
L	LAVATORY	1 1/2"	1/2"	1/2"	1 1/4"	-
BK	BK SINK	1 1/2"	1/2"	1/2"	1 1/4"	-
JB	JANITOR SINK	3"	3/4"	3/4"	1 1/2"	-
SH	SHOWER	2"	3/4"	3/4"	1 1/2"	-
UR	URNAL	2"	1/2" / 1 1/2"	-	1 1/2"	FLUSH TANK / FLUSH VALVE
FD	FLOOR DRAIN	3"	-	-	-	C/U TRAP PRIMER
DW	DISHWASHER	2"	-	3/4"	1 1/2"	-
HB	HOSE BIBB	-	3/4"	-	-	-

**DESTRATIFICATION FAN SCHEDULE**

DF-1 TO DF-6  
 FLEASANTANE MODEL CP-86 CEILING DESTRATIFICATION FAN C/U MC-18 CONTROLLER FOR 5 AMP/200V/1 PHASE POWER PROVIDE ONE CONTROLLER MOUNT FANS ABOVE BOTTOM CHORD OF GUSBS. (TYPICAL OF 6)



**PLUMBING SCHEDULE**

TYPE	FIXTURE	DESCRIPTION	TRM	ACCESSORIES
WC-1	STANDARD FLOOR MOUNTED CLOSET BOWL W/ FLUSH VALVE	AMERICAN STANDARD 2234.025 MADERA SIPHON SET, ELONGATED BOWL, 1/4" TOP SPUD AND BOLT CAPS.	11-10-XL EXPOSED CHROME PLATED FLUSH VALVE W/ VACUUM BREAKER, LOW CONSUMPTION.	-CENTOCO 8000CS6 OPEN FRONT SEAT. -FLOOR FLANGE, WAX SEAL AND MOUNTING HARDWARE.
WC-2	HANDICAPPED FLOOR MOUNTED CLOSET BOWL W/ FLUSH VALVE	AMERICAN STANDARD 2205.100 MADERA SIPHON SET, ELONGATED BOWL, 1/4" TOP SPUD AND BOLT CAPS.	11-10-XL EXPOSED CHROME PLATED FLUSH VALVE W/ VACUUM BREAKER, LOW CONSUMPTION, ANGLE STOP EXTENDED SEAT BUMPER.	-CENTOCO 8000CS6 OPEN FRONT SEAT W/ COVER. -FLOOR FLANGE, WAX SEAL AND MOUNTING HARDWARE.
L-1	COUNTERTOP LAVATORY (HANDICAPPED & NORMAL USE)	AMERICAN STANDARD 8476.028 VITREOUS CHINA SELF-RIMMING BASKIN W/ 4" CENTERS.	811-10-XL EXPOSED CHROME PLATED METERING BASIN FAUCET W/ CAST METAL LEVER HANDLE.	-854A DRAIN W/ OPEN GRID STRAINER (OFFSET FITTING ON H/C) -PAIR OF ANGLE SUPPLIES W/ SCREWDRIVER STOPS AND ESCUTCHEONS. -ADJUSTABLE CAST BRASS P-TRAP W/ WALL FLANGE.
L-2	WALL HANG HANDICAPPED LAVATORY.	AMERICAN STANDARD 84101 VITREOUS CHINA SELF-RIMMING WALL HANG BASKIN W/ 4" CENTERS.	811-10-XL EXPOSED CHROME PLATED METERING BASIN FAUCET W/ CAST METAL LEVER HANDLE.	-854A DRAIN W/ OPEN GRID STRAINER (OFFSET FITTING ON H/C) -PAIR OF ANGLE SUPPLIES W/ SCREWDRIVER STOPS AND ESCUTCHEONS. -ADJUSTABLE CAST BRASS P-TRAP W/ WALL FLANGE. -SMITH 631 CARRIER.
UR-1	WALL HANG URNAL	AMERICAN STANDARD 6501.028 VITREOUS CHINA WALL HANG URNAL W/ 1/4" TOP SPUD, WALL HANGERS, 7" OUTLET CONNECTION AND 3/8" STRAINER.	732-0H-VB-H810(LKSB-N) EXPOSED CHROME PLATED METERING FLUSH VALVE.	-SMITH 631 CARRIER.
JB-1	JOB SINK	FLAT 15B-2424 MOULDED STONE WITH 3" DRAIN, DOME STRAINER, LNT BASKET, (24" x 24" x 10" HIGH BASIN).	TECK 287238 WALL MOUNT SINK FAUCET WITH RIGID SPOUT, TOP BRACE, BODY MOUNTED VACUUM BREAKER, 10mm LEVER HANDLES, HOSE SPOUT W/ PAUL HOOK, 60" OF HOSE WITH STAINLESS STEEL HANGER BRACKET, INTEGRAL STOPS.	-EXTRA BACKING FOR ATTACHMENT OF TOP BRACE AND HOOK SUPPORT FOR A 60" PAUL HOOK FAUCET AT 36" ABOVE FLOOR. -1 PAIR 1/4" FLEXIBLE SUPPLIES W/ SCREWDRIVER STOPS AND ESCUTCHEONS. -MOUNT FAUCET AT 36" ABOVE FLOOR.
SH-1	SHOWER	BUILT UP ENCLOSURE BY G.C.	POULERS P430K1000 HYDROGUARD PRESSURE BALANCED VALVE WITH LEVER HANDLE, INTEGRAL ANGLE CHECK STOP, 0.9 1/8 VANDAL PROOF SHOWER HEAD, ARM AND FLANGE, SET TEMP. STOPS FOR MAX. 42°C SUPPLY WATER.	-ZURN ZN-401 SHOWER DRAIN WITH 3/4" CHROME STRAINER.
BK-1	DOUBLE BOWL SINK	KINDRED QDL1 DOUBLE BOWL STAINLESS STEEL SINK WITH BACKLASH REMOVABLE DRAIN ASSEMBLY, CENTER SPILLWAY, 3 HOLE DRILLING AND UNDER-COATING.	TECK 267194 WALL MOUNT SINK FAUCET WITH RIGID SPOUT, BOTTOM BRACE, BODY MOUNTED VACUUM BREAKER, WING HANDLES, HOSE SPOUT AND INTEGRAL STOPS.	-CONTINUOUS WASTE -P-TRAP W/ WALL FLANGE -1 PAIR 3/4" WHEEL CHAIR LAVATORY SUPPLIES WITH STOPS

**DRAIN SCHEDULE**

TYPE	FIXTURE	DESCRIPTION	ACCESSORIES
FD-1	GENERAL PURPOSE FLOOR DRAIN	ZURN ZN-45-B-P-EPoxy COATED CAST IRON BODY AND CLAMP COLLAR, POLISHED 5" ROUND NICKEL BRONZE STRAINER HEAD AND GRATE, 3" CONNECTION.	-TRAP PRIMER AND TRAP PRIMER CONNECTION -VANDAL PROOF SCREWS
FD-2	GENERAL PURPOSE FLOOR DRAIN	ZURN ZN-45-B-P-EPoxy COATED CAST IRON BODY AND CLAMP COLLAR, POLISHED 5" ROUND NICKEL BRONZE STRAINER HEAD AND GRATE WITH 3 1/8" OVAL PANEL, 4" CONNECTION.	-TRAP PRIMER AND TRAP PRIMER CONNECTION -SEDIMENT BUCKET.
DD-1	CONVENTIONAL INVERTED PROMENADE DECK DRAIN (MEDIUM TRAFFIC)	ZURN ZN-139-1 8 1/8" SQUARE GRATE, EPOXY COATED CAST IRON BODY AND BODY CLAMP COLLAR, POLISHED NICKEL BRONZE GRATE AND FRAME.	-UNDERDECK CLAMP -WATERPROOF FLANGE -ROOF SUMP RECEIVER -EPOXY COATED PERFORATED ORANGE EXTENSION TO SUIT SLAB/INSULATION THICKNESS. -SEDIMENT BUCKET.
RD-1	ROOF DRAIN FOR FLAT ROOF	ZURN ZN-101-ENC EPOXY COATED CAST IRON BODY, CLAMP COLLAR WITH 1" INTEGRAL GRAVEL GUARD, HARDWARE AND ALUMINUM DOME.	-UNDERDECK CLAMP -WATERPROOF FLANGE -ROOF SUMP RECEIVER -STAINLESS STEEL MESH OVER DOME. -CAST IRON EXTENSION TO SUIT ROOF THICKNESS. -SEDIMENT BUCKET.
RD-2	ROOF DRAIN FOR FLAT ROOF	ZURN ZN-101 PARAPET SCURFER ROOF DRAIN (C) BODY, CLAMP COLLAR WITH 1" INTEGRAL GRAVEL GUARD, HARDWARE AND ALUMINUM CLAMP COLLAR.	-WATERPROOF FLANGE
HB-1	ENCASED EXTERIOR HOSE BIBB	ZURN ZN-1069-VB 1/2" ENCASED NON-FREEZE HYDRANT WITH BRASS INTERIOR PARTS, GALVANIZED STEEL CASING, CHROME PLATE BRASS HEAD, STRAIGHT HOSE THREAD OUTLET, REMOVABLE KEY.	-SELF DRAINING ATMOSPHERIC VACUUM BREAKER
HB-2	INTERIOR HOSE BIBB	EMCO MODEL 0241 1/2" SEDIMENT FAUCET WITH HOSE END.	-SELF DRAINING ATMOSPHERIC VACUUM BREAKER

**PUMP SCHEDULE**

TAG No.	P-1
LOCATION	GROUND FLOOR
MANUFACTURER	BELL & GOSSETT
MODEL	SERIES PL
SERVICE	DOMESTIC HOT
SIZE	PL-36
WEIGHT (lbs)	-
CAPACITY (gpm)	5
HEAD (ft)	21
MOTOR (hp)	FRACT.
MOTOR (min)	1750
VOLTAGE	200/160
SUCTION SIZE (in.)	1 1/2
DISCHARGE SIZE (in.)	1 1/2
IMPELLER SIZE (in.)	-
FRAME SIZE (in.)	-
NOTES:	-ALL BRONZE CONSTRUCTION

