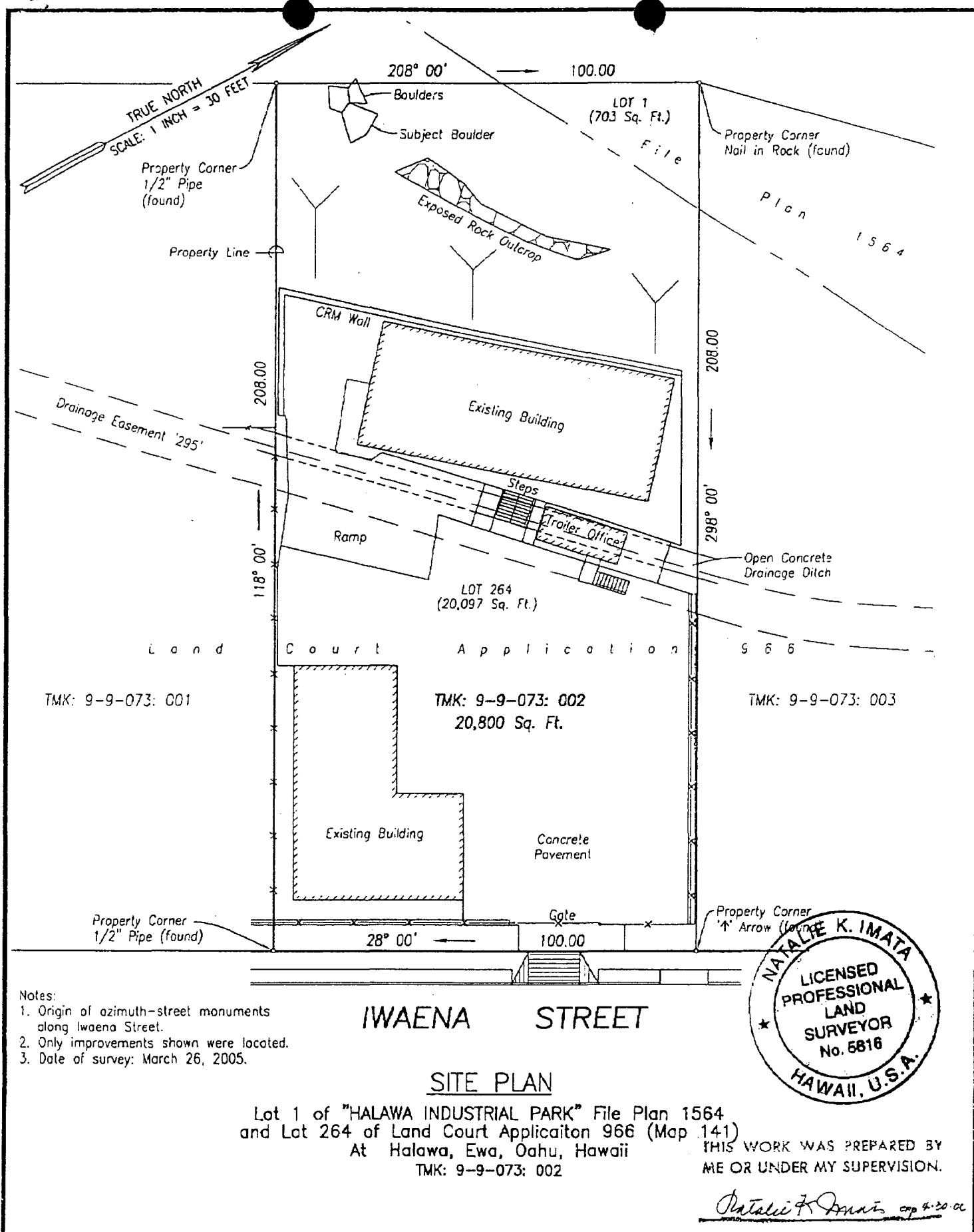
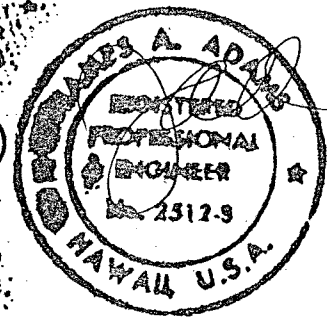


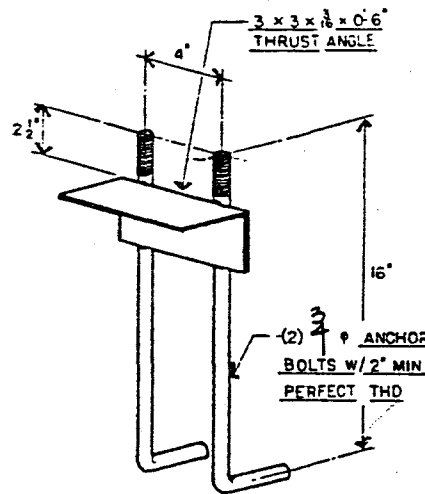
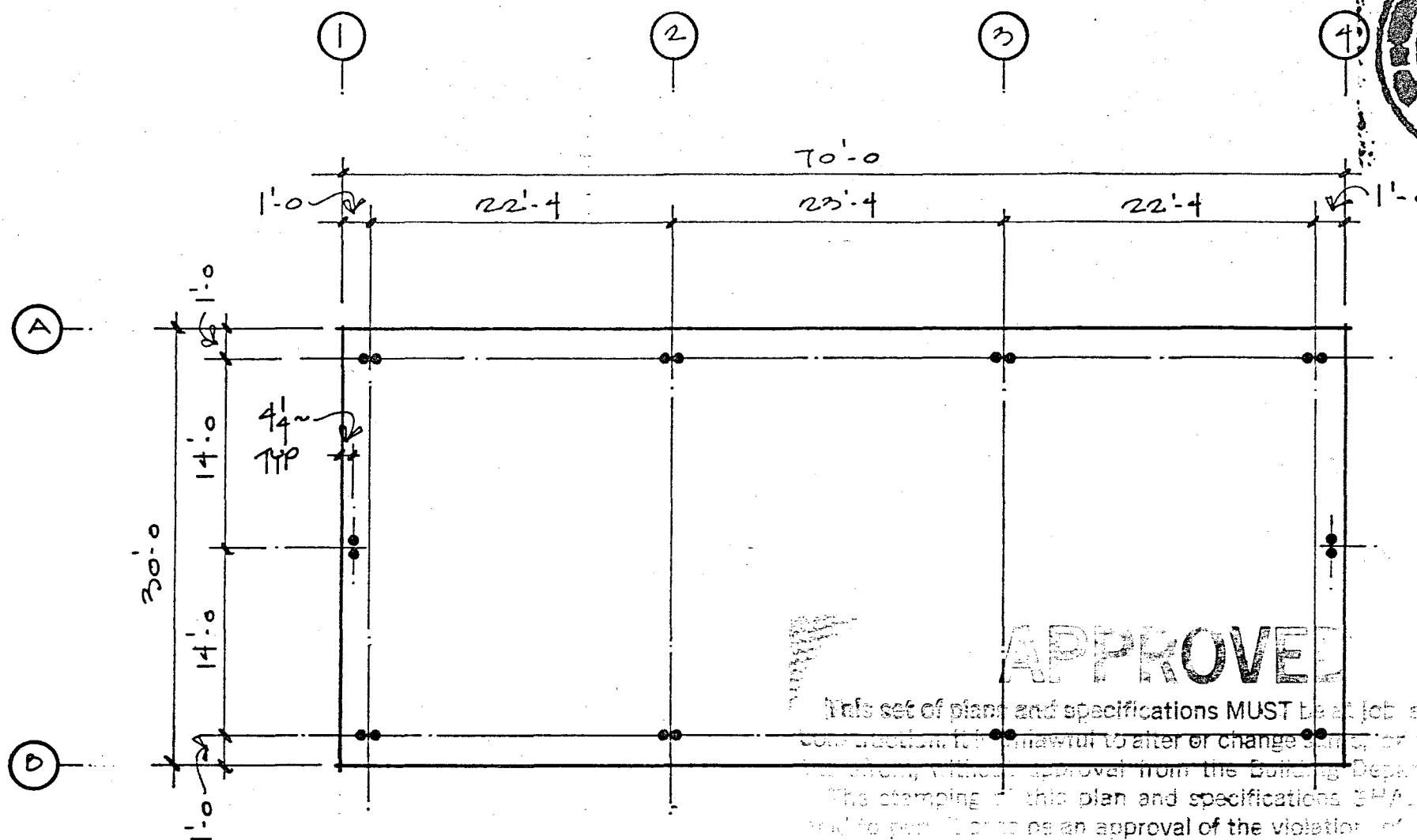


INDEX TO DRAWINGS

NO.	SHEET	SHEET TITLE
1	A1	SITE PLAN
2	A2	LOCATION MAP & VICINITY MAP
3	S1	ANCHOR BOLT PLAN
4	S2	ROOF FRAMING PLAN
5	S3	WALL FRAMING & DETAILS
6	S4	SECTION & DETAILS
7	S5	STANDARD DETAILS
8	S6	STANDARD DETAILS
9	S7	STANDARD DETAILS
10	S8	FASTENER PLACEMENT SHEET
11	S9	STRUCTURAL WELDING
12	E1	ELECTRICAL DRAWINGS
13	M1	SITE PLAN, DETAILED TOILET PLAN & DIAGRAMS
14	M2	LEGEND, WATER NOTES & SPECS



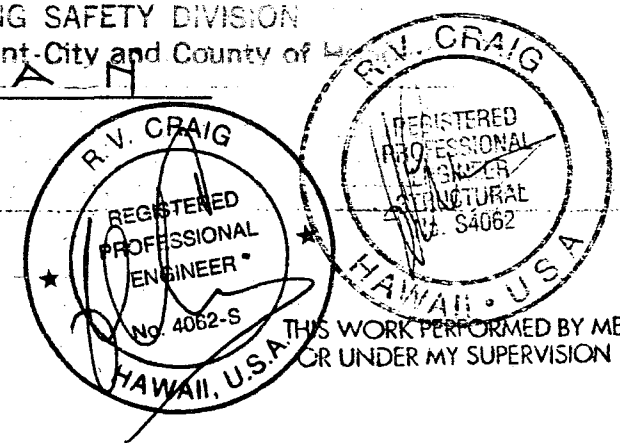
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 1.2(N) OF THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS, AND SURVEYORS OF THE STATE OF HAWAII).



APPROVED

This set of plans and specifications MUST be at job site during construction. It is unlawful to alter or change specifications, without approval from the Building Department. The stamping of this plan and specifications shall not be construed as an approval of the violation of any City Ordinance or State Law.

ANCHOR BOLT PLAN



REV.	DESCRIPTION	BY	CK	DATE



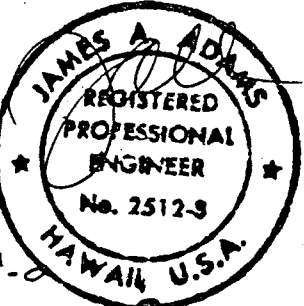
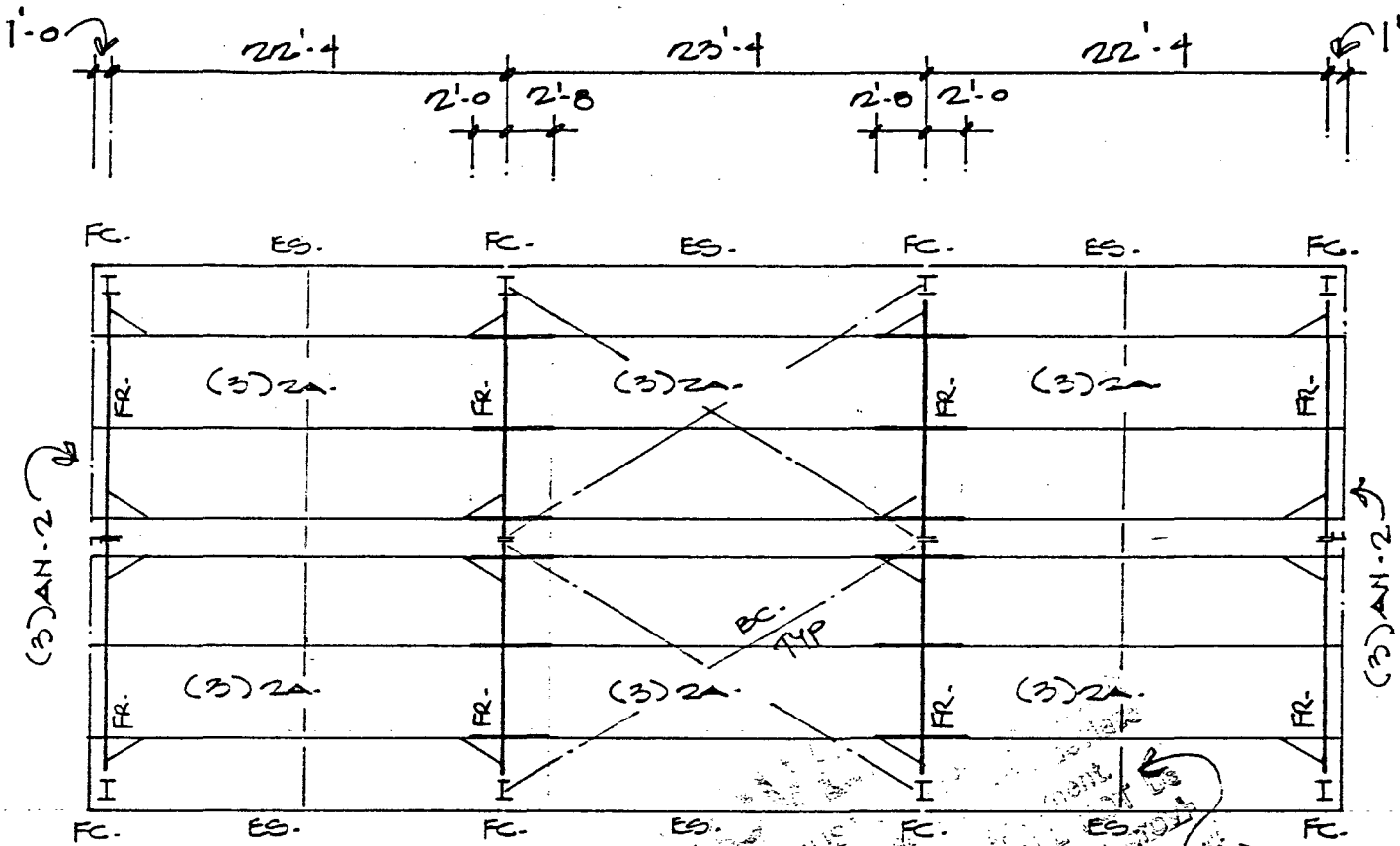
COMMERCIAL BUILDING COMPONENTS, INC.
California Office & Plant - 209-983-0910
1700 E. Louise Ave., Lathrop, CA 95330
Washington Office - 206-885-2026
P.O. Box 788, Bellevue, WA 98009
Washington Toll Free 1-800-562-8076

ANCHOR BOLT PLAN		DATE	Nov 90	C.B.C. JOB NO.	J10759
CUSTOMER	PACIFIC MARBLE & GRANITE	DRAWN	PM & G	DEALER JOB NO.	PM & G
LOCATION	Honolulu, Hi.	CHECKED		SMT	OF

MATERIAL DESCRIPTION

ZA-	PURLIN	8.5x2.75 (16 ga) 50 ksi
ES-	EAVE STRUT	8.5x8.5 (16 ga) 50 ksi
AN-2	RAKE ANGLE	2x5 (16 ga) 50 ksi
AN-	FLANGE BRACE	2X2 (16 ga) 50 ksi
BC-	BRACE CABLE	3/8 dia EHS 15400#
ZA-	GIRT	8.5x2.75 (16 ga) 50 ksi
CA-	WIND POST	8.5x2.75 (16 ga) 50 ksi
PA-	SHEETING	26 Ga High Rib 80 ksi
PM-	RIDGE CAP	26 Ga High Rib 80 ksi
FC-	STRUCTURAL BUILT-UP COLUMN	
FR-	STRUCTURAL BUILT-UP RAFTER	
PP-	FIBERGLASS PANEL	3'x11' 8 oz.
AN-10	SAG ANGLE	1x1 (16 ga) 50 ksi

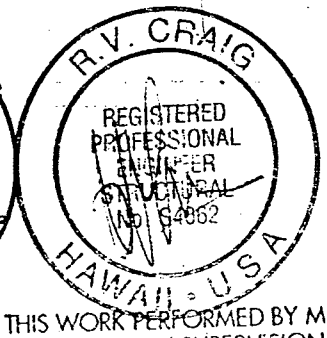
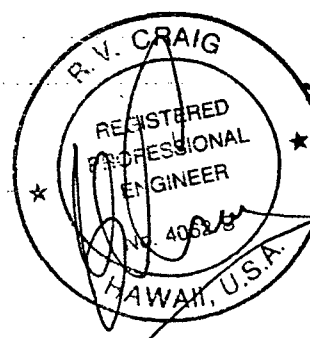
(24) PM-1	(6) PA
(6) PP-1	(18) PA
(6) PP-1	(18) PA



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ROOF FRAMING PLAN

ALL modifications MUST be approved by the Building Department or State Law. ANY modifications SHALL be approved by the Building Department or State Law. ANY modifications SHALL be approved by the Building Department or State Law.



THIS WORK PERFORMED BY ME OR UNDER MY SUPERVISION

REV.	DESCRIPTION	BY	CK	DATE



STEEL BUILDINGS

COMMERCIAL BUILDING COMPONENTS, INC.

California Office & Plant - 209-983-0910
1700 E. Louise Ave., Lathrop, CA 95330

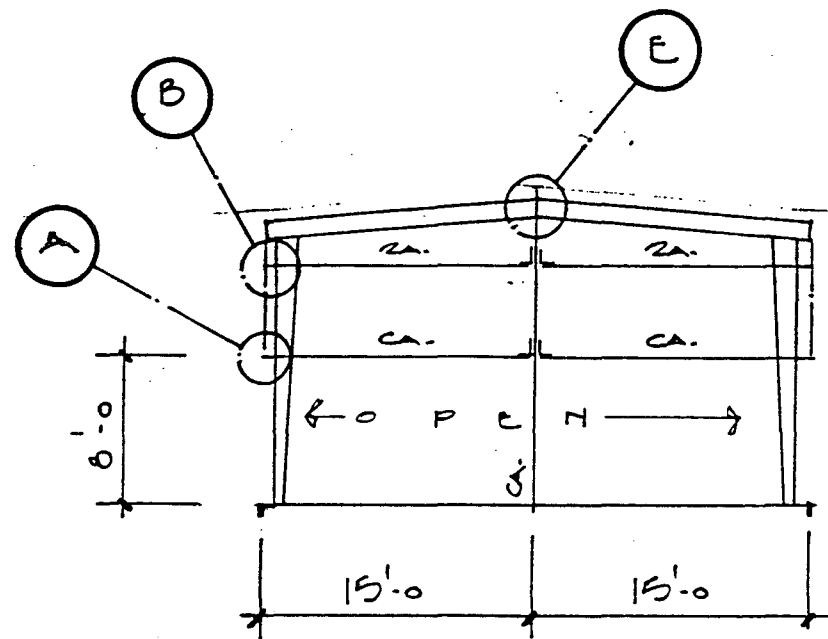
Washington Office - 206-885-2026
P.O. Box 768, Bellevue, WA 98009
Washington Toll Free 1-800-562-8076

ROOF FRAMING PLAN

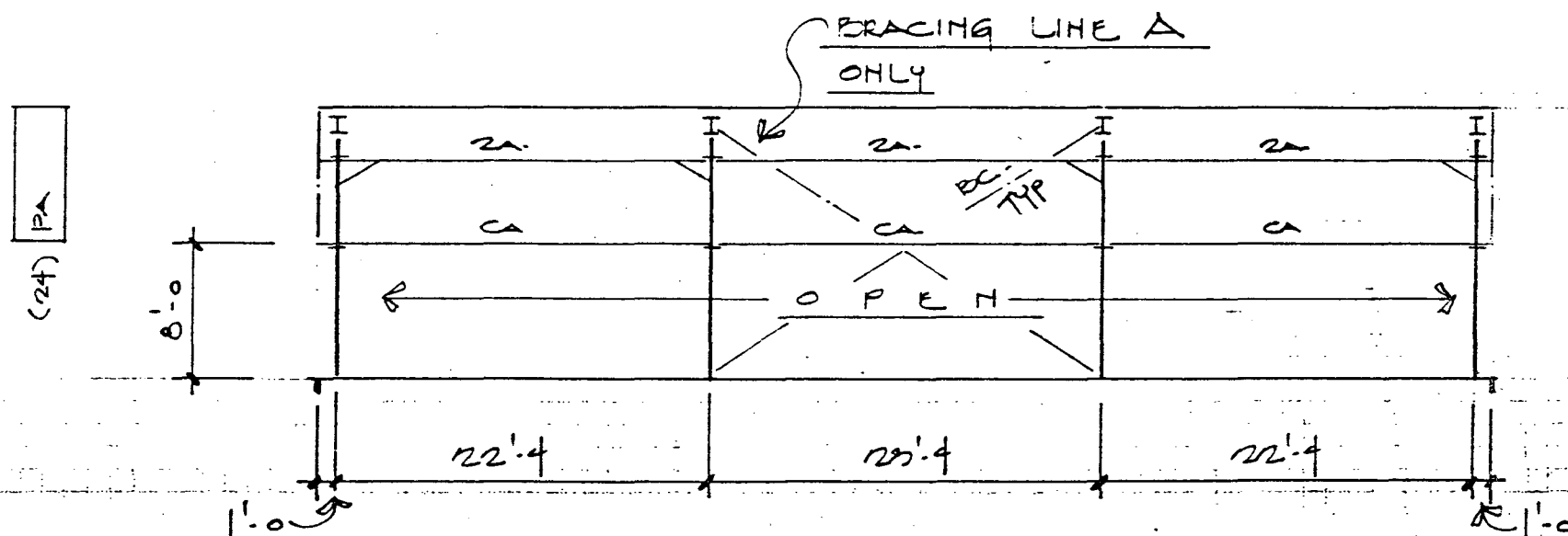
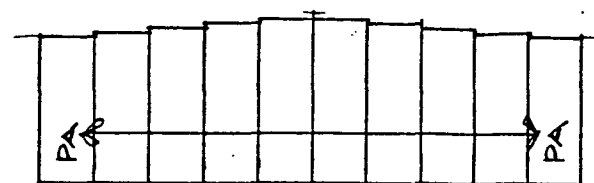
CUSTOMER PACIFIC MARBLE & GRANITE

LOCATION HONOLULU, HI.

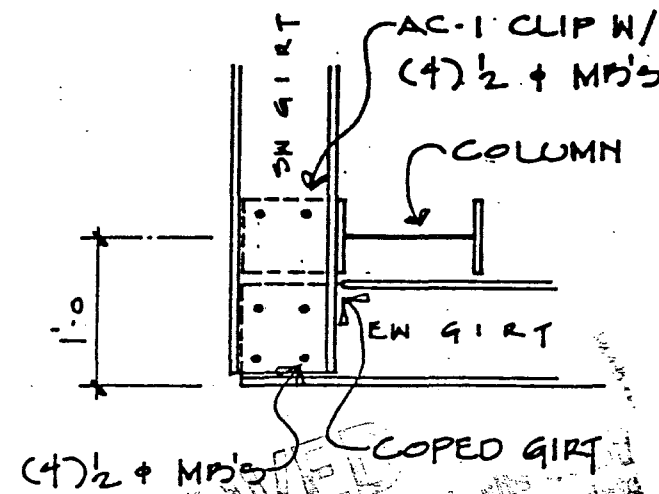
DATE	NOV 90	C.B.C. JOB NO.	J10759
DRAWN	PODA	DEALER JOB NO.	PM 6
CHECKED		SHT	62
		OF	10714



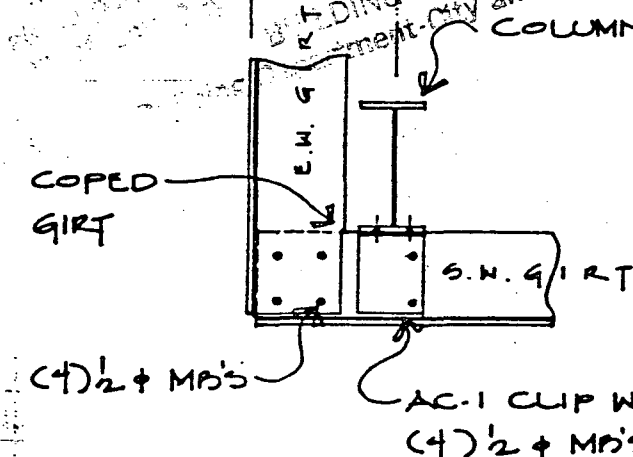
FRAMING LINE 1 & 4



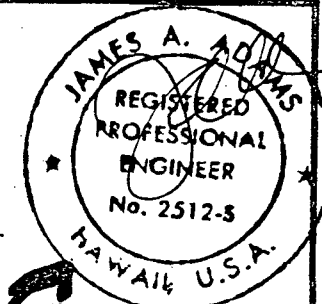
FRAMING LINE A & B



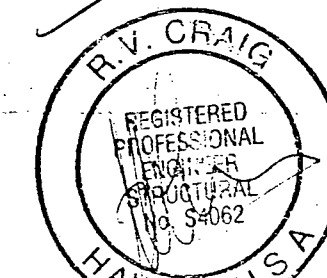
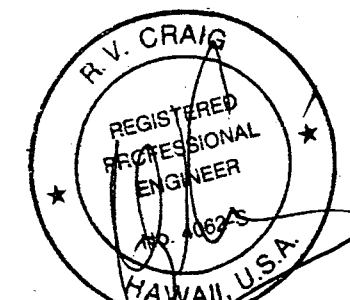
DETAIL A



DETAIL B

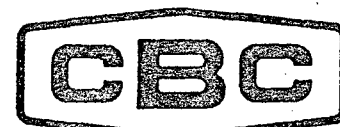


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THIS WORK PERFORMED BY ME OR UNDER MY SUPERVISION

REV.	DESCRIPTION	BY	CK	DATE



STEEL BUILDINGS

COMMERCIAL BUILDING COMPONENTS, INC.

California Office & Plant - 209-983-0910
1700 E. Louise Ave., Lathrop, CA 95330

Washington Office - 206-885-2026
P.O. Box 768, Bellevue, WA 98009
Washington Toll Free 1-800-562-8076

WALL FRAMING, DETAILS

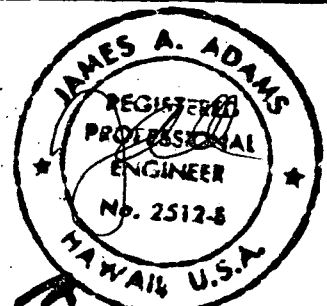
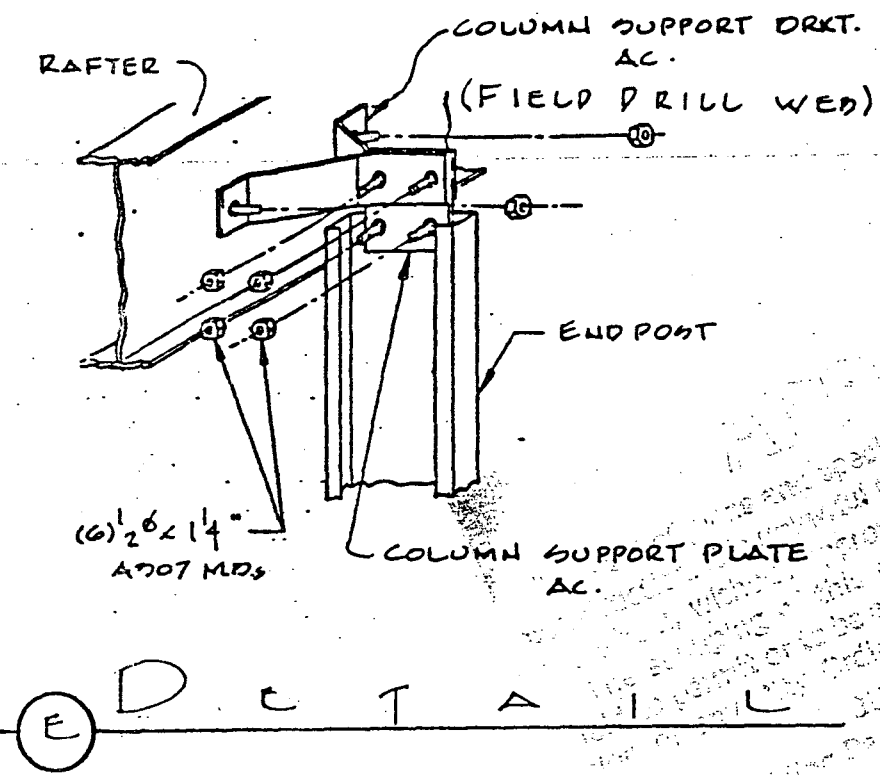
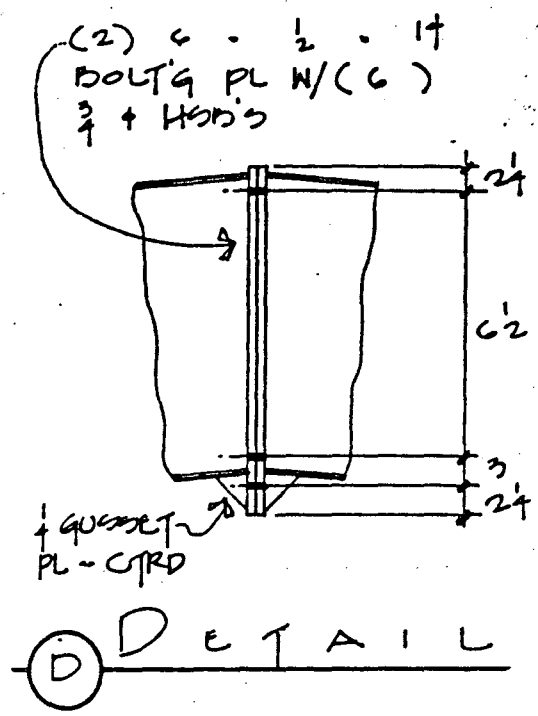
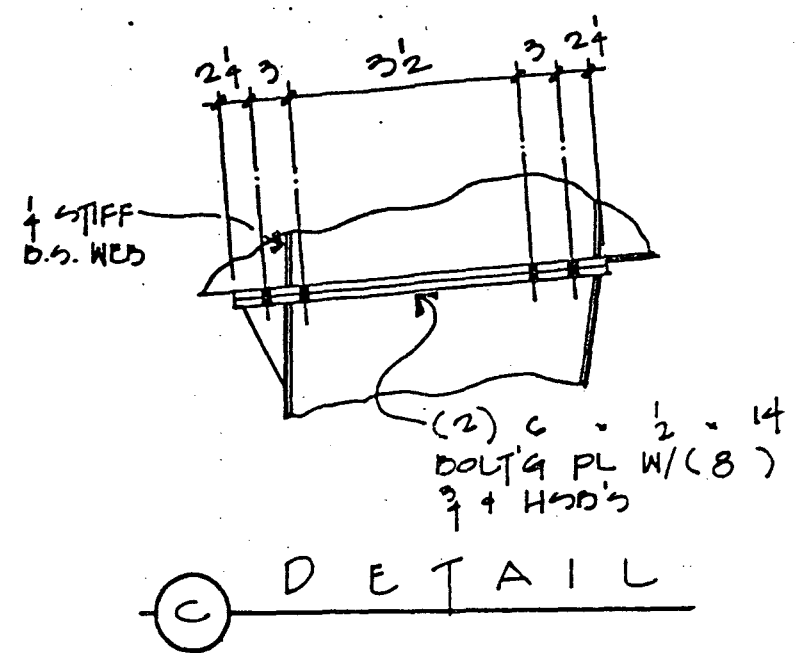
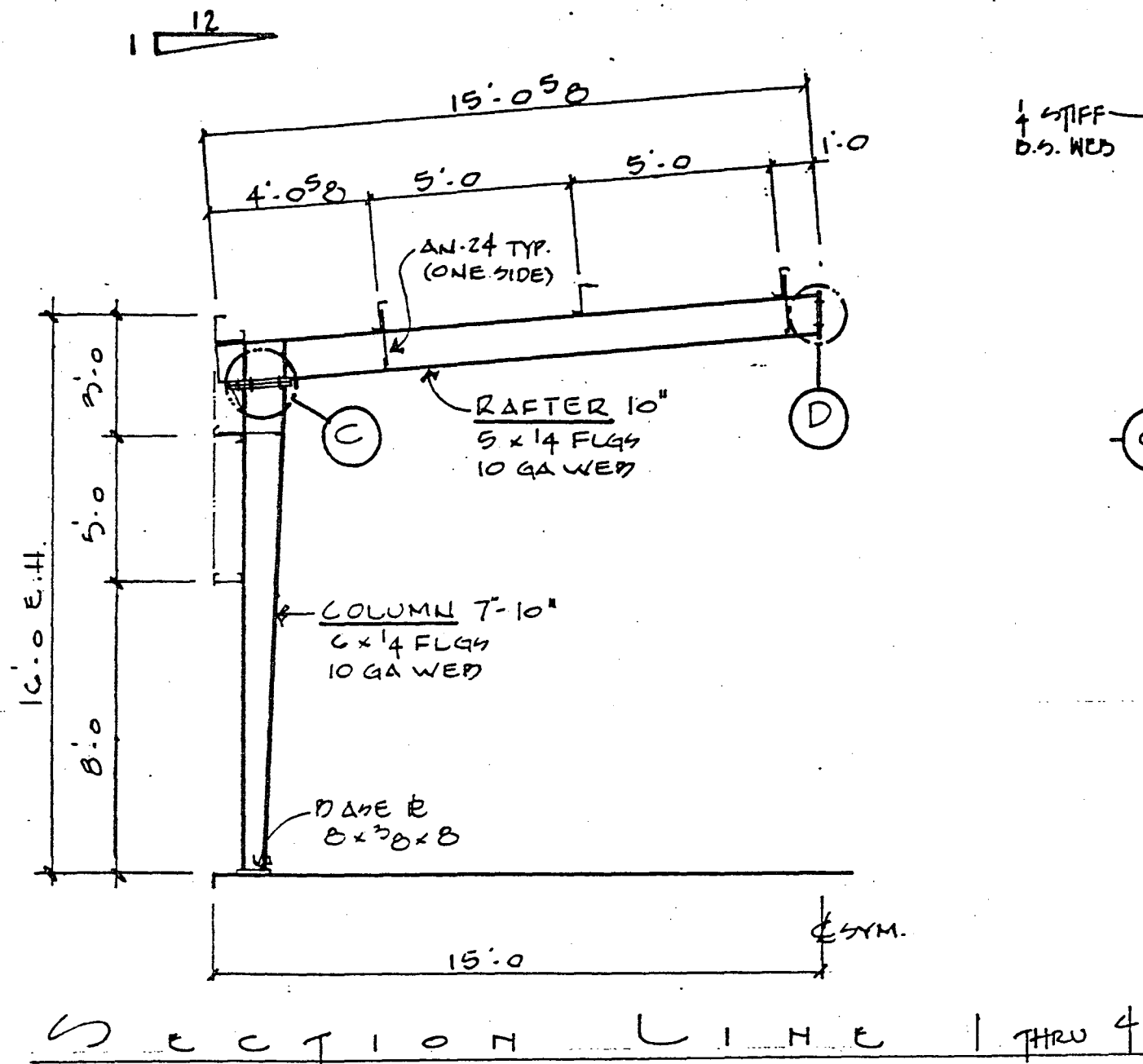
CUSTOMER PACIFIC MARBLE & GRANITE

LOCATION HONOLULU, HI.

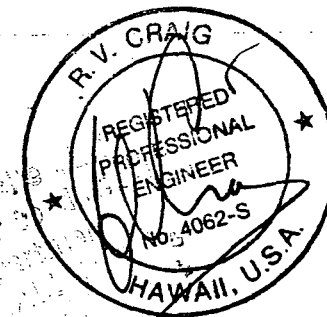
DATE Nov 90 C.B.C. JOB NO. J10759

DRAWN P.D.A. DEALER JOB NO. PM & G

CHECKED SHT 03 OF 50-14



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THIS WORK PERFORMED BY ME OR UNDER MY SUPERVISION

ALL A325 BOLTS ARE USED IN BEARING TYPE CONNECTIONS WITH THREADS NOT REQUIRED BY DESIGN TO BE EXCLUDED FROM THE SHEAR PLANE. SPECIAL INSPECTION NOT REQUIRED PER UPC SEC. 306. (8) 6.2. RECOMMENDED BOLT TIGHTENING IS BY THE "TURN OF THE NUT" METHOD

REV.	DESCRIPTION	BY	CK	DATE
Δ	30x14H 20P4F 70B T-30			
Δ				
Δ				
Δ				
Δ				
Δ				



COMMERCIAL BUILDING COMPONENTS, INC.
 California Office & Plant - 209-983-0910
 1700 E. Louise Ave., Lathrop, CA 95330
 Washington Office - 206-885-2026
 P.O. Box 788, Bellevue, WA 98009
 Washington Toll Free 1-800-562-8076

SECTION, DETAILS

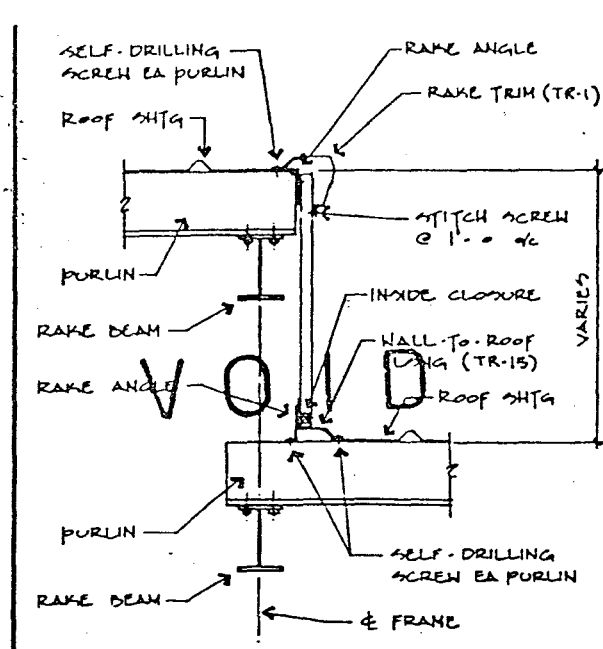
CUSTOMER PACIFIC MARBLE & GRANITE

LOCATION HONOLULU, HI.

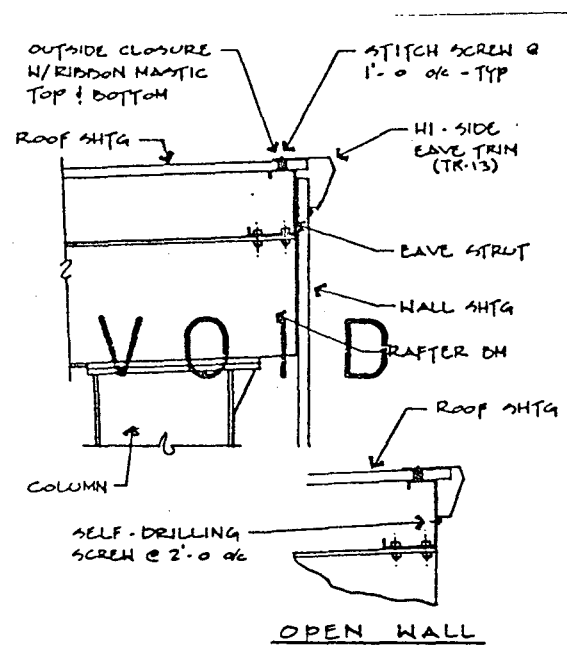
DATE	Nov 90	CBC JOB NO	J110759
DRAWN	Bona	DEALER JOB NO	PM & G
CHECKED		SHT	34
		OF	00114

					STANDARD DETAILS J10759 DATE: May 90 BY: PM & G CHECKED: JAS LOCATION: Honolulu, HI.
CONT PURLIN W/ FLANGE BRACE	ENDFRAME PURLIN W/ FLANGE BRACE	SIMPLE SPAN PURLIN	CONT. PURLIN W/O FLANGE BRACE	PURLIN TO RAKE DEAM	
					COMMERCIAL BUILDING COMPONENTS, INC. California Office & Plant: 205 967 0810 15600 So. McKinley, Lakewood, CA 91330 Washington Office: 202 422 5666 P.O. Box 788, Bellevue, WA 98009 Washington Toll Free 1-800-967-9076
PURLIN TO D.O. RAKE DEAM	EAVE STRUT TO RAFTER DEAM	COLUMN BASE	COLUMN DASE	FORMED RIDGE CAP	
			NOTE: FIELD LOCATE HOLES IN LIGHT GAGE MEMBERS FOR CONNECTION		REGISTERED PROFESSIONAL ENGINEER NO. 54062 HAWAII, U.S.A.
STANDARD EAVE FLASHING	EAVE GUTTER	CABLE BRACING	CABLE BRACING ASSEMBLIES		

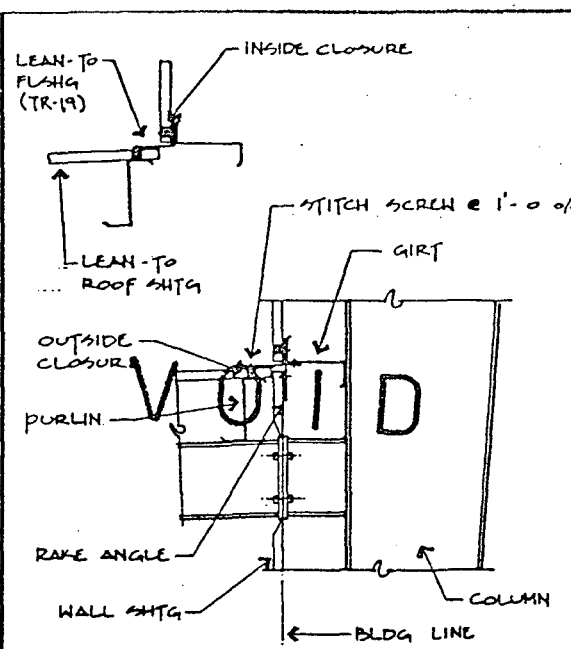
			THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 1.2(N) OF THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS, AND SURVEYORS OF THE STATE OF HAWAII).		DATE: Nov 90 JOB NO: J10759 CUSTOMER: Pacific Marine & Granite LOCATION: Hawaii
	NOTE: FIELD LOC HOLES IN EAVE STRUT	(2) 1/2 x 1 MS's (BY OTHERS) - SEE ANCHOR BOLT FOR GAGE AND LOCATION	FRAMED OPENING CAP N/ S.D.S. 4'-0" OK (TR-33)		STANDARD DETAILS COMMERCIAL BUILDING COMPONENTS, INC. California Office & Plant - 208-943-0610 15400 So. McKinley, Lathrop, CA 95330 Washington Office - 206-423-5668 P.O. Box 784, Bellevue, WA 98008 Washington Toll Free 1-800-943-8078
SELF-DRILLING SCREW 2" x 1/4" GIRT, DAGE ANGLE, EAVE STRUT			SELF-DRILLING SCREW 2'-0" O/C	THIS WORK PERFORMED BY ME OR UNDER MY SUPERVISION	DATE: MAR 94 JOB NO: J10759 CUSTOMER: Pacific Marine & Granite LOCATION: Hawaii



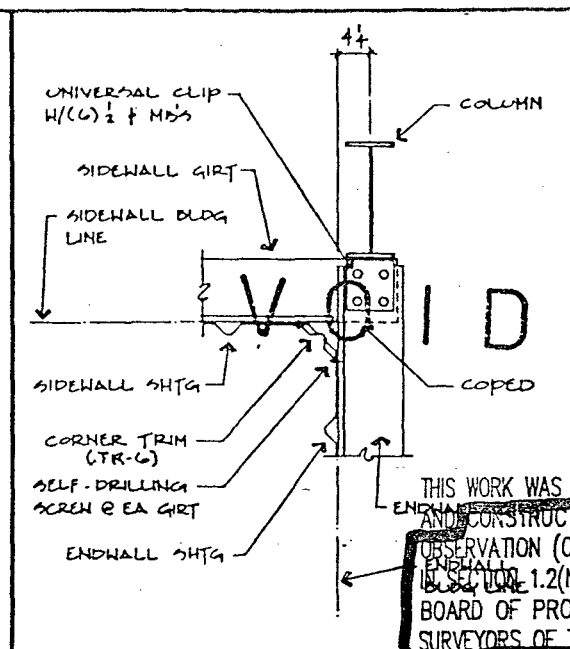
ROOF HEIGHT CHANGE GD-30



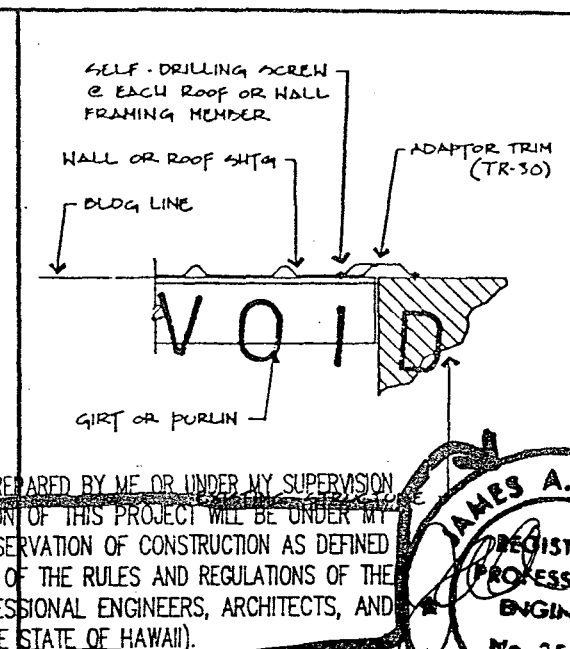
EAVE FLASHING - SHED GD-31



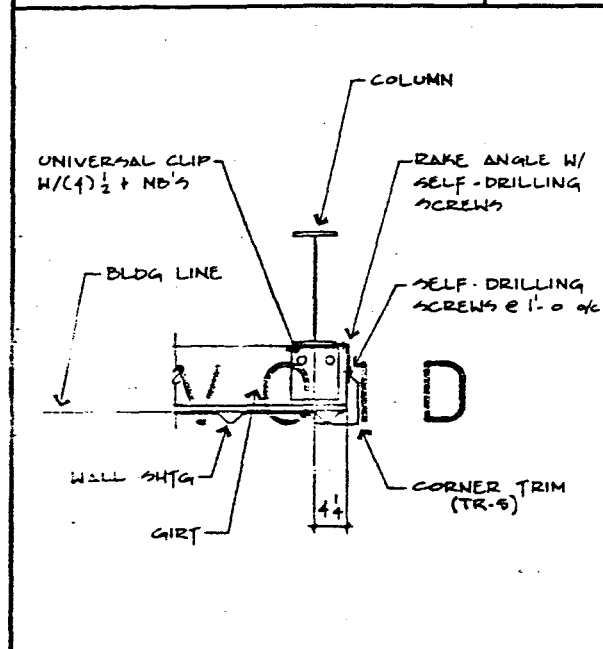
LEAN-TO FLASHING GD-32



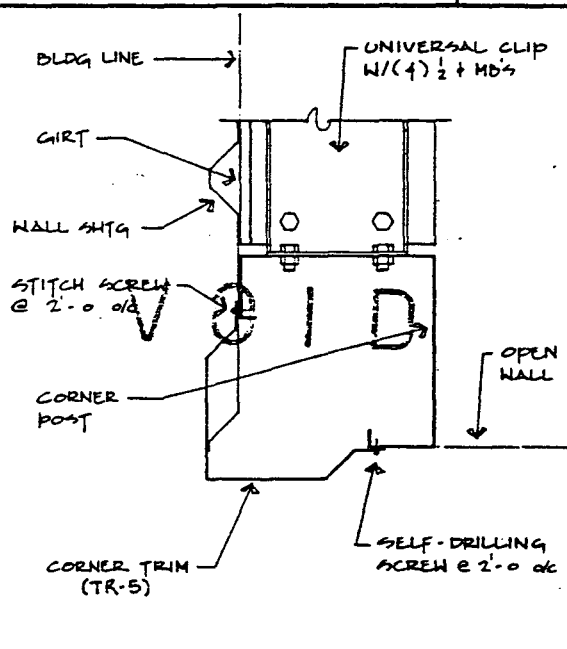
INSIDE CORNER FLASHING GD-33



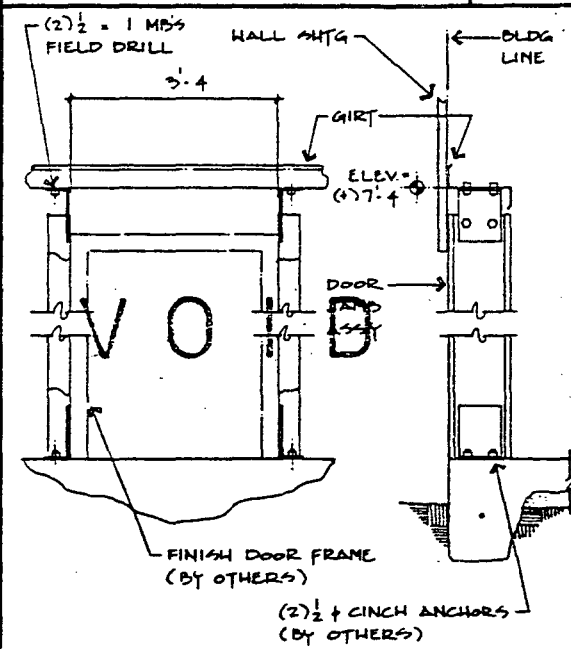
ADAPTOR TRIM GD-34



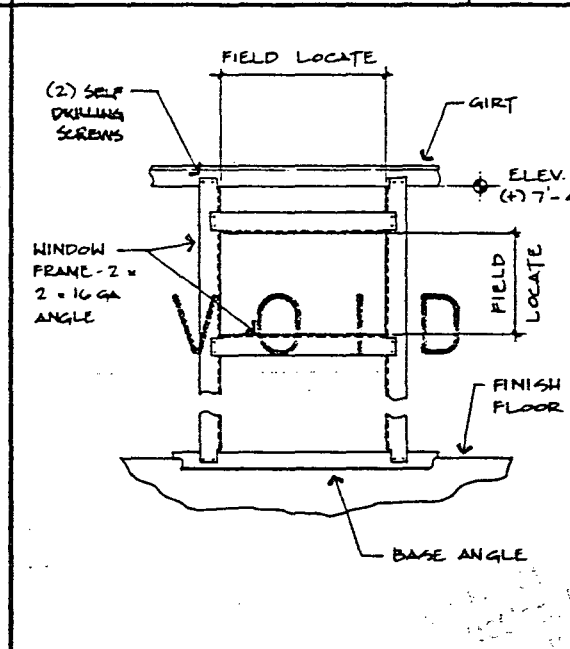
INTERIOR BAY W/ OPEN WALL GD-35



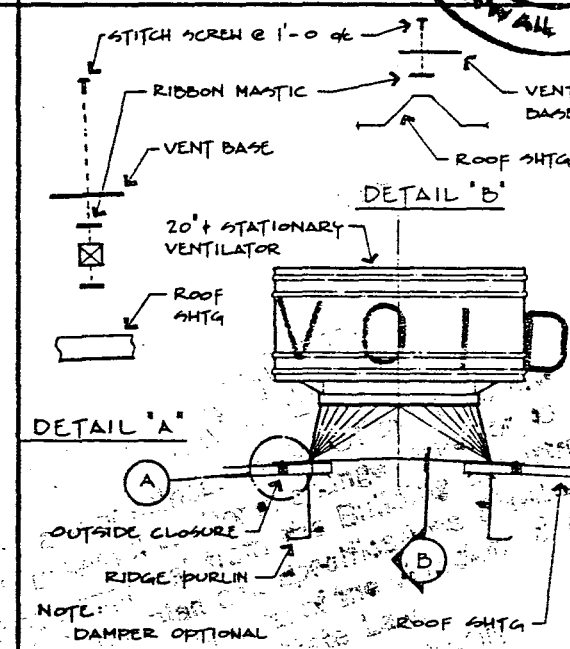
CORNER POST W/ OPEN WALL GD-36



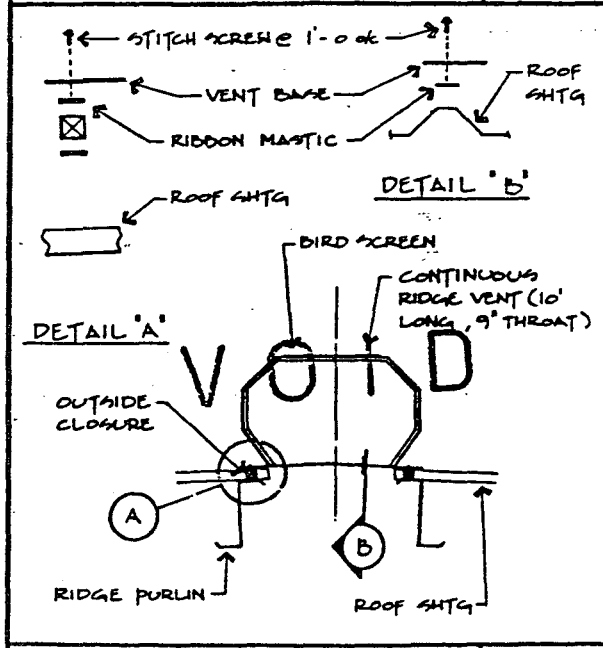
WALK DOOR ROUGH FRAMING GD-37



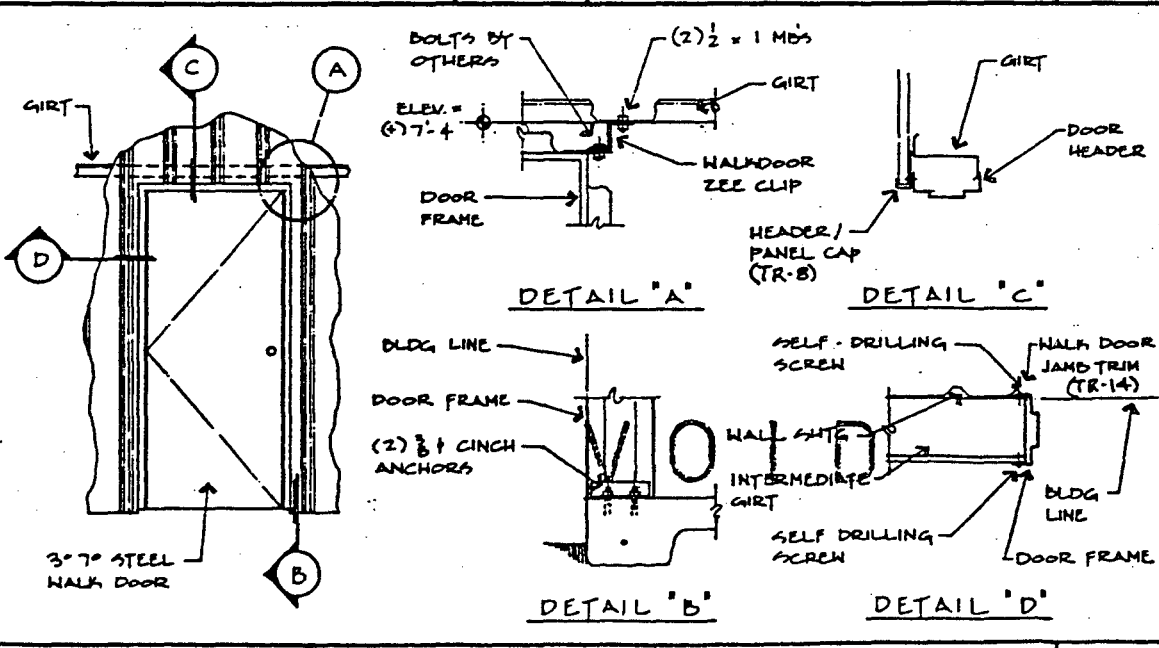
WINDOW FRAMING GD-38



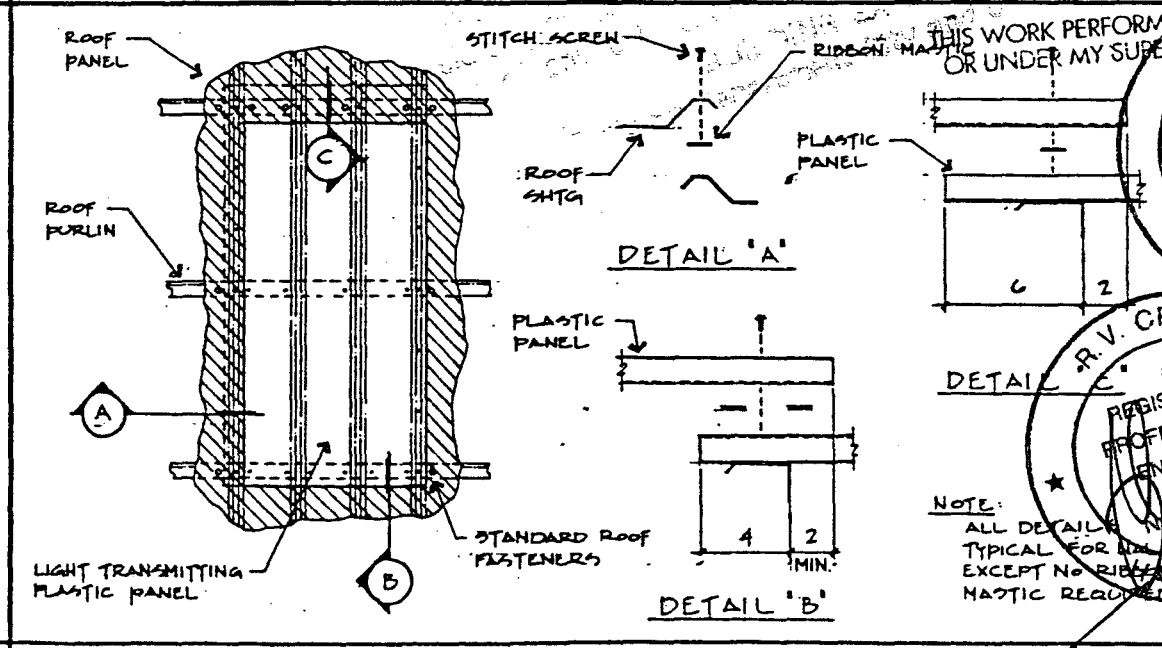
20' x STATIONARY VENTILATOR GD-39



CONTINUOUS RIDGE VENT GD-40



STANDARD 30° REVERSIBLE STEEL DOOR AND FRAME GD-41



TRANSLUCENT PANEL GD-42

DATE: Nov 90
DRAWN BY: PM:G
CHECKED BY: J. A. ADAMS
LOCATION: HONOLULU, HI

REGISTERED PROFESSIONAL ENGINEER
No. 25125
HAWAII, U.S.A.

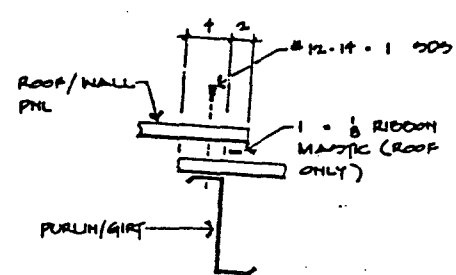
COMMERCIAL BUILDING COMPONENTS, INC.
California Office & Plant - 307-463 0810
18000 So. McKinley, La Brea, CA 90330
Washington Office - 206-423-4448
P.O. Box 784, Bellevue, WA 98009
Washington Toll Free 1-800-562-8078

REGISTERED PROFESSIONAL ENGINEER
No. S4062
HAWAII, U.S.A.

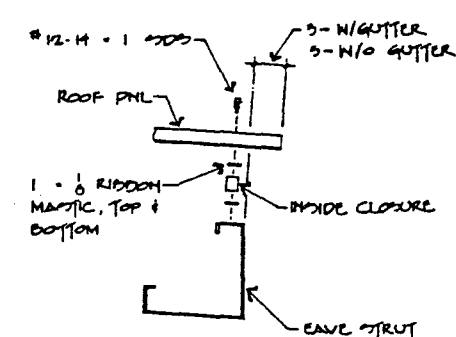
NOTE: ALL DETAILS ARE TYPICAL FOR THIS PROJECT EXCEPT NO RIBBON MASTIC REQUIRED

STRUCTURAL PROPERTIES			
	16 GA		16 GA
	$S_{xx} = 2.10 \text{ IN}^3$ $A = 0.87 \text{ IN}^2$		$S_{xx} = 2.10 \text{ IN}^3$ $A = 0.87 \text{ IN}^2$
	14 GA		14 GA
	$S_{xx} = 2.09 \text{ IN}^3$ $A = 1.11 \text{ IN}^2$		$S_{xx} = 2.09 \text{ IN}^3$ $A = 1.11 \text{ IN}^2$
'C' SECTION		'Z' SECTION	
	14 GA		16 GA
	$S_{xx} = 1.55 \text{ IN}^3$ $A = 1.44 \text{ IN}^2$		$S_{xx} = 2.11 \text{ IN}^3$ (TOP IN CORR) $S_{xx} = 4.91 \text{ IN}^3$ (BOOT. IN CORR) $A = 1.44 \text{ IN}^2$
	12 GA		14 GA
	$S_{xx} = 0.72 \text{ IN}^3$ $A = 2.07 \text{ IN}^2$		$S_{xx} = 0.23 \text{ IN}^3$ (TOP IN CORR) $S_{xx} = 6.00 \text{ IN}^3$ (BOOT. IN CORR) $A = 1.71 \text{ IN}^2$
RANDEAM		EAVE STRUT	

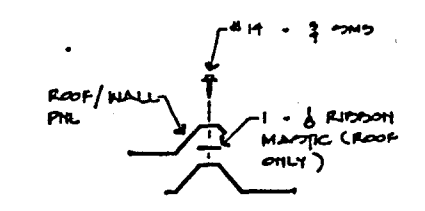
SHEETING PROPERTIES					
STANDARD R PANEL					
MATL	THK	WT	1	5	
24 GA	.0176	0.76	.0125	.0100	
ROOF PANEL					
STANDARD R PANEL					
MATL	THK	WT	1	5	
24 GA	.0176	0.76	.0125	.0100	
WALL PANEL					



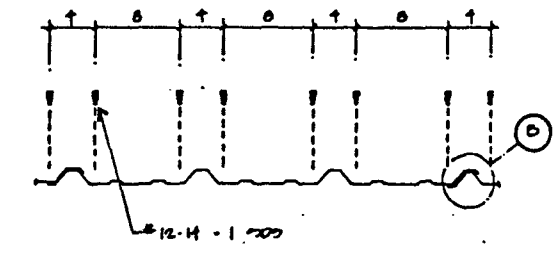
(A) END LAP DETAIL



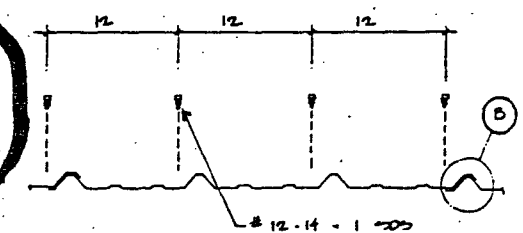
(C) EAVE DETAIL



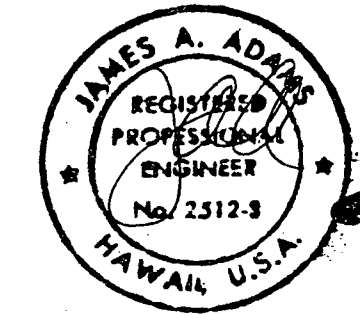
(B) SIDE LAP DETAIL



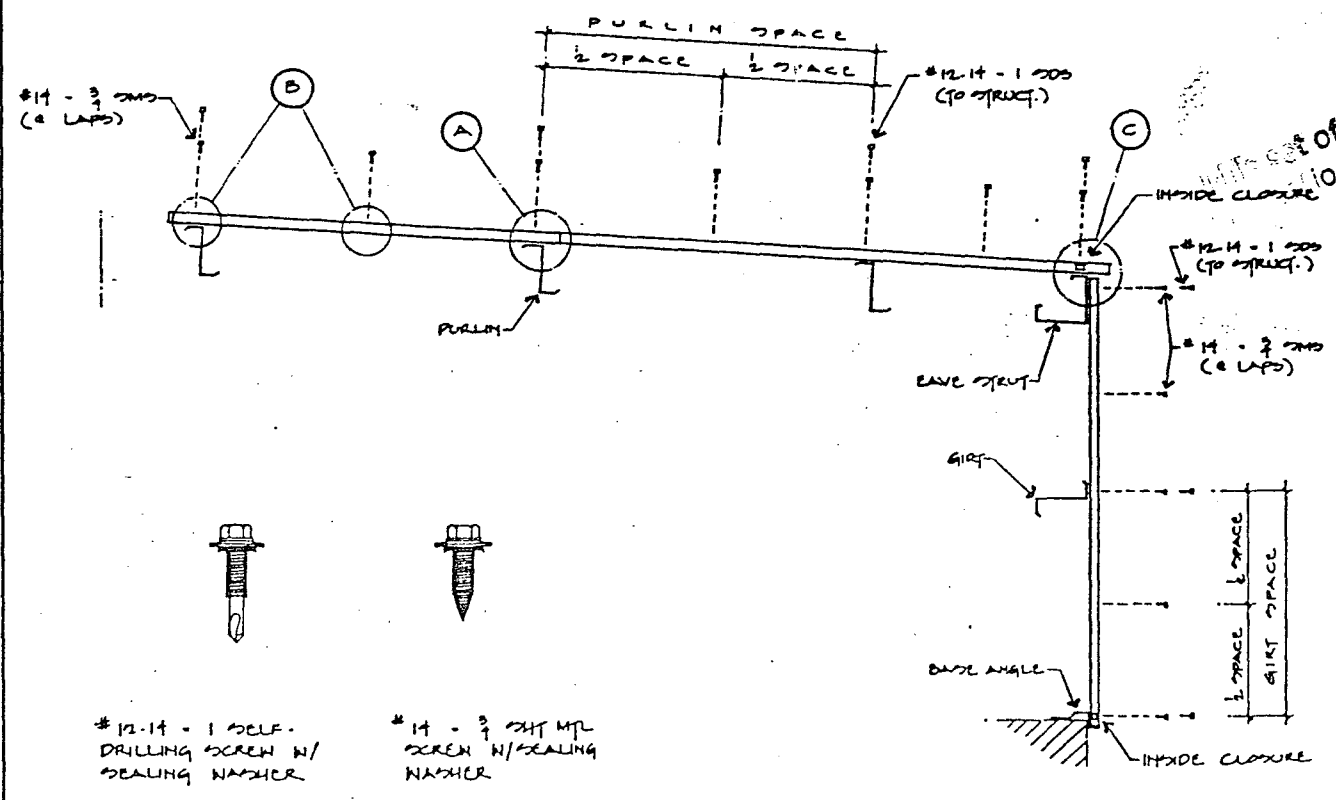
SPACING & RIDGE PURLIN, END LAP, EAVE STRUT, BASE ANGLE



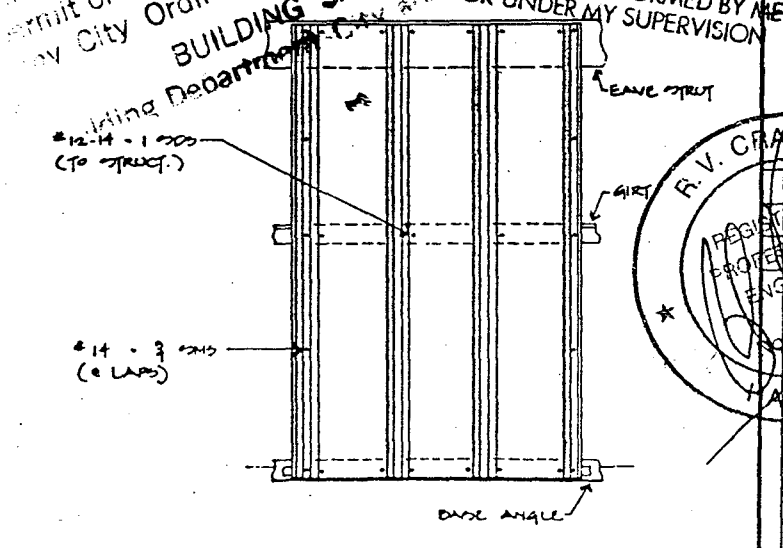
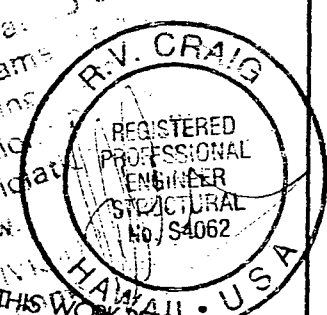
SPACING & INTERMEDIATE PURLINS AND GIRTS



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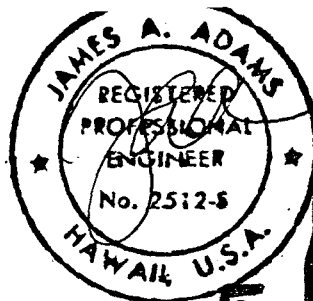
APPROVED
 No part of plans and specifications MUST be altered or changed without approval from the Building Department or to be an approval of the Building Department or City Ordinance or State Law.
 BUILDING SAFETY
 THIS WORK PERFORMED BY ME OR UNDER MY SUPERVISION



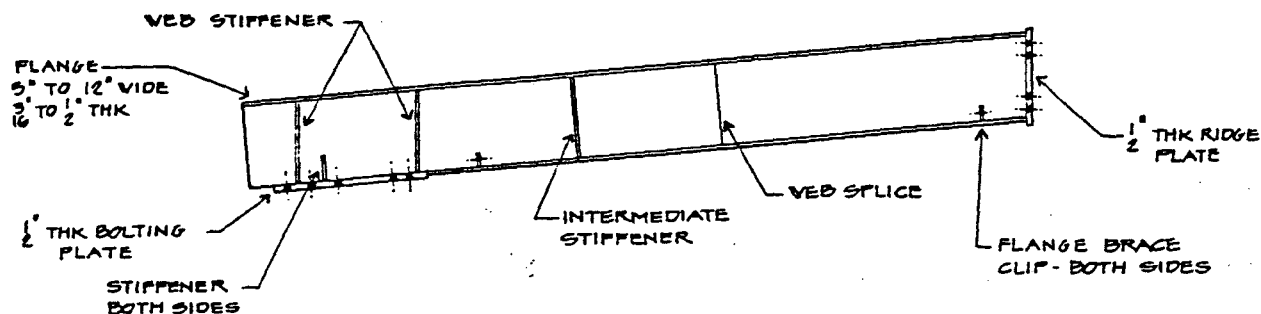
DATE	Nov 90	PROJECT	FASTENER Placement SHEET
DESIGNER	J. Adams	CUSTOMER	Pacific Marine & Granite
SCALE	1/8" = 1'-0"	LOCATION	Honolulu, HI.
NO.	10759		
	PM 1 G		
	98		

COMMERCIAL BUILDING COMPONENTS, INC.	
California Office & Plant - 208 853 0010	15400 So. McKinley, Lathrop, CA 94576
Washington Office - 206 445 2026	P.O. Box 749, Bellevue, WA 98008
Washington Toll Free 1-800-457-8076	

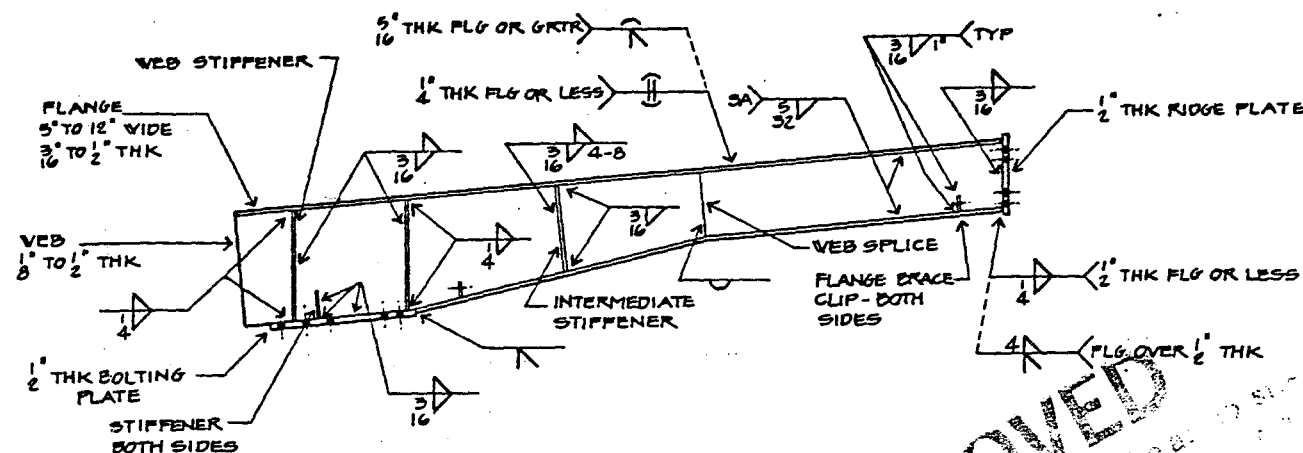
CBC	
STEEL BUILDINGS	



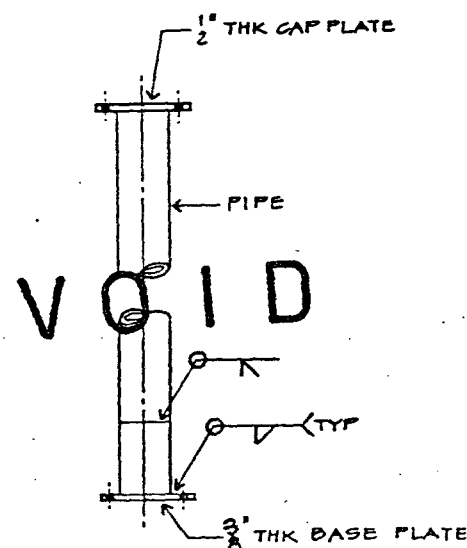
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION (OBSERVATION OF CONSTRUCTION AS DEFINED IN SECTION 1.2(N) OF THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS, AND SURVEYORS OF THE STATE OF HAWAII).



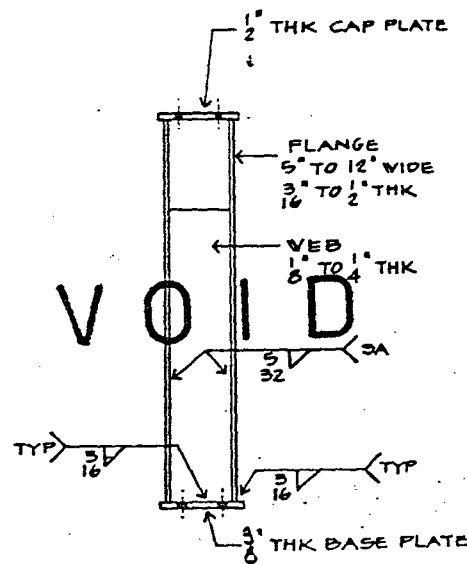
STRAIGHT RAFTER



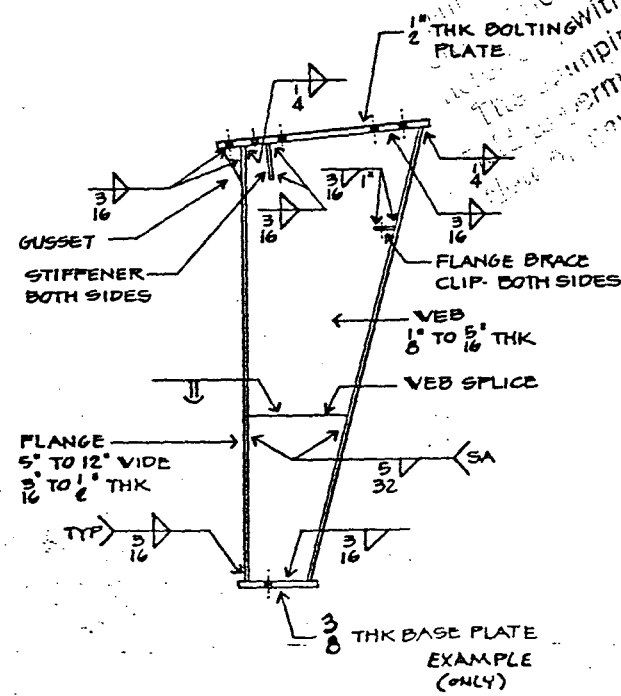
TAPERED RAFTER



PIPE COLUMN



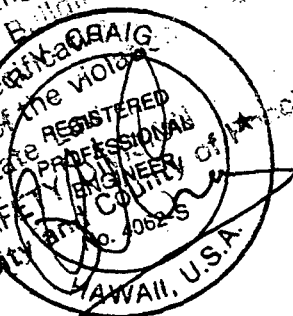
STRAIGHT POST



TAPERED COLUMN

APPROVED

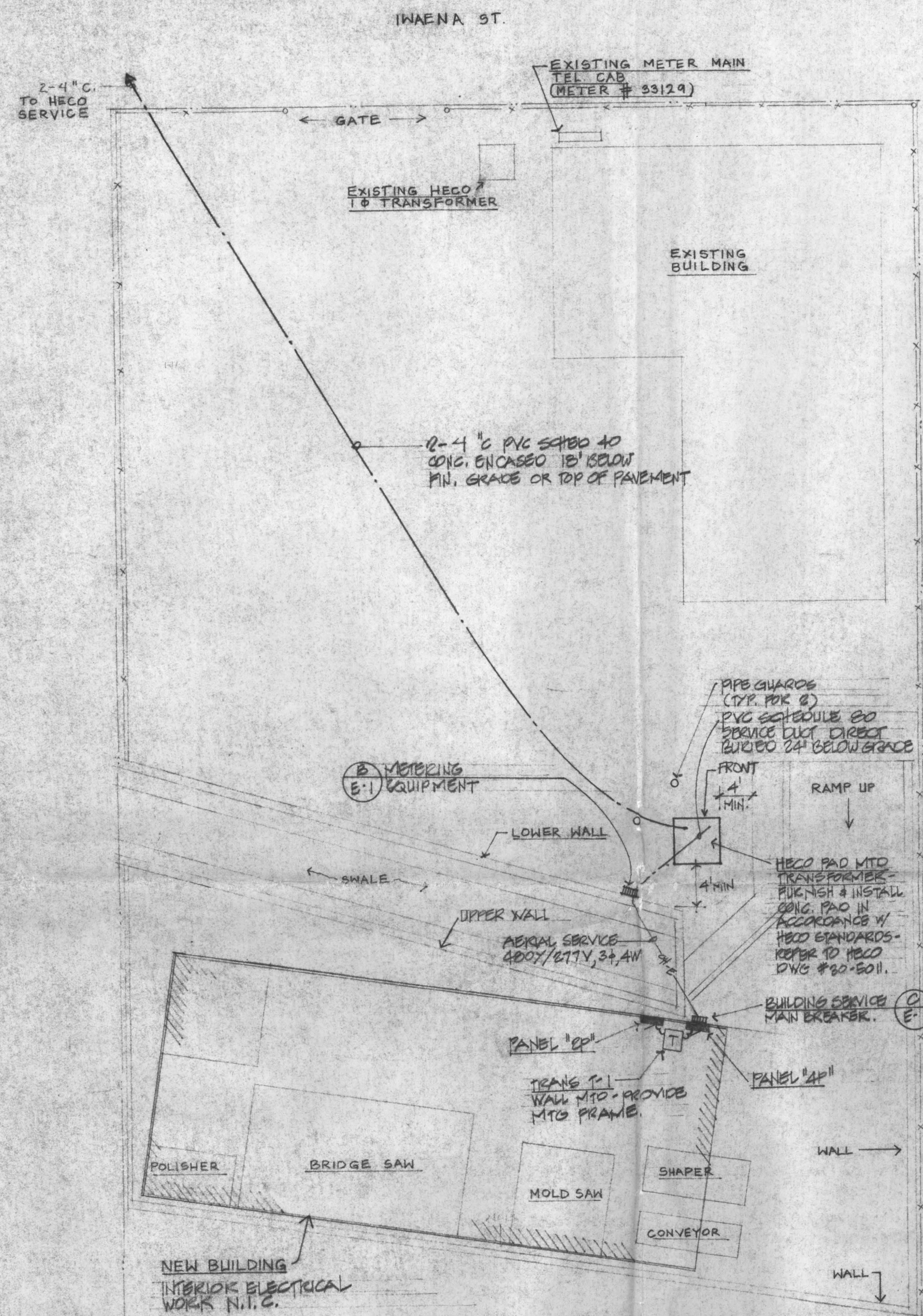
of plans and specifications MUST be approved by the Building Department. It is unlawful to alter or change same without approval from the Building Department. The stamping of this plan and specification of the work is a permit or to be an approval of the Building Department. City Ordinance or State Building Department. City Ordinance or State Building Department.



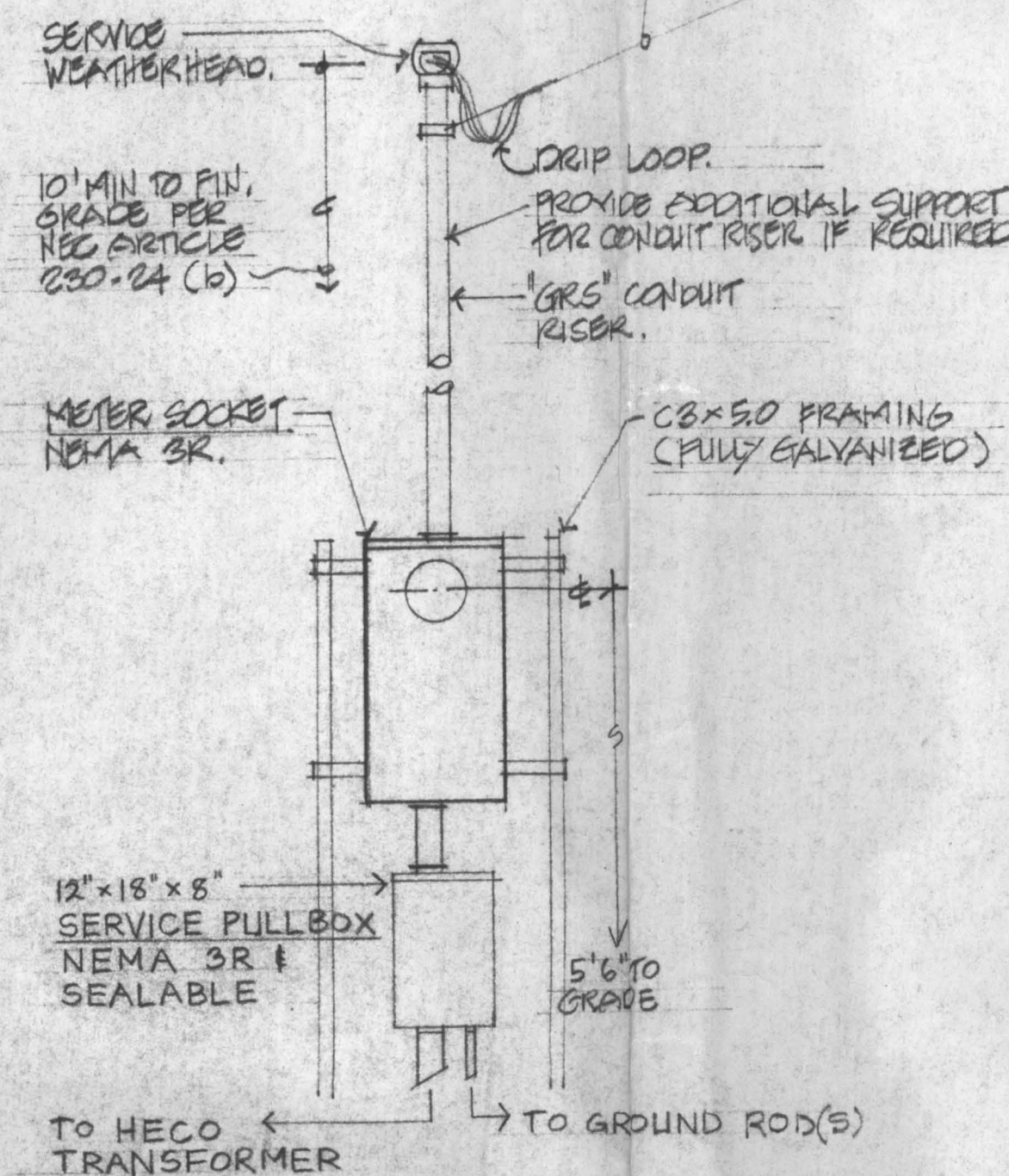
THIS WORK PERFORMED BY ME OR UNDER MY SUPERVISION

NOTE: WELDS SHOWN ARE FREQUENTLY USED SIZES AND TYPES. ACTUAL WELD FOR AN INDIVIDUAL MEMBER MAY VARY IN ACCORDANCE WITH SPECIAL DESIGN REQUIREMENTS. (SEE DWGS FOR R THICKNESS)

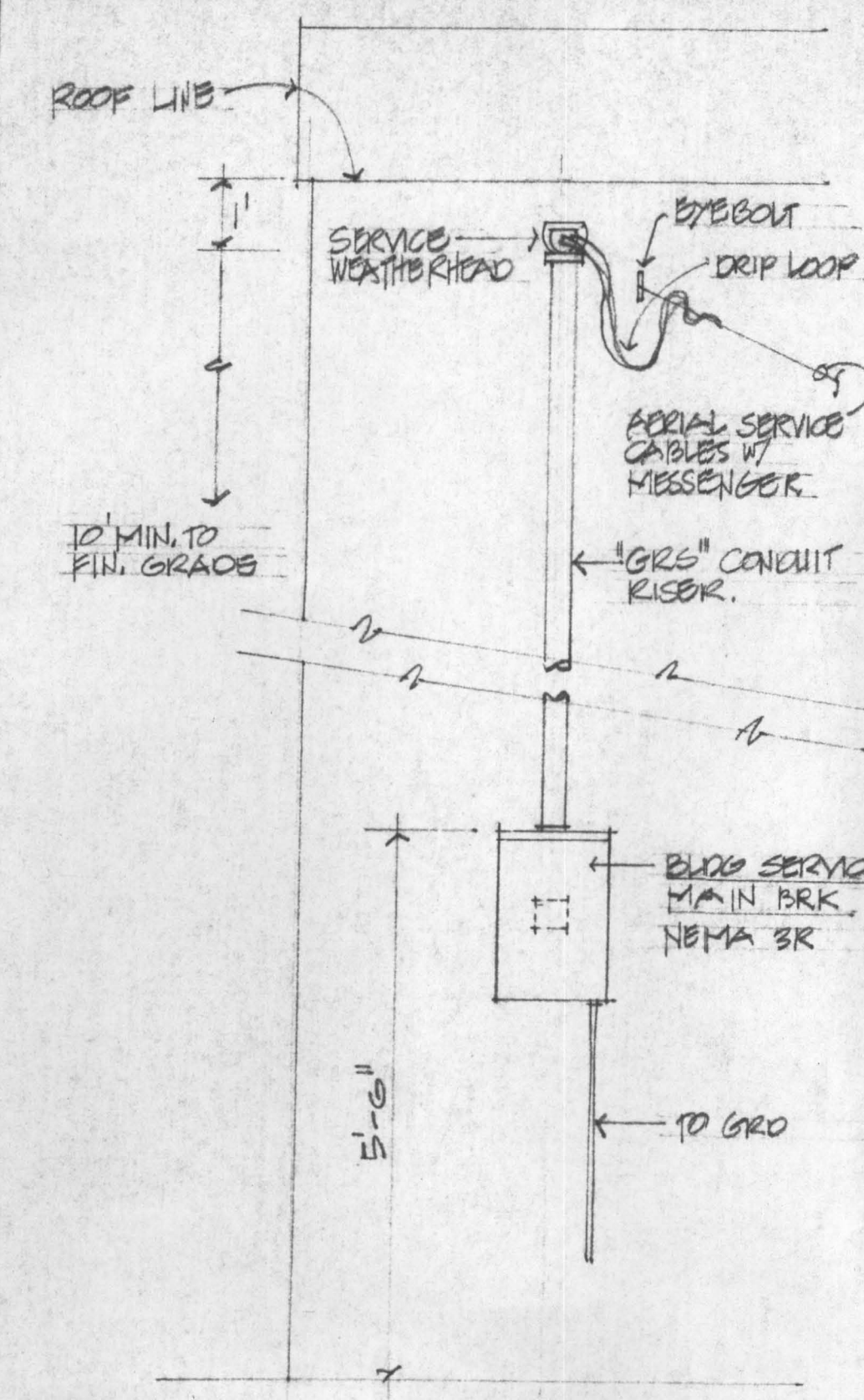
DATE	11/17/79
BY	PM + G
CHECKED	PM + G
DESIGNED	PM + G
STRUCTURAL WELDING	PM + G
COMPONENT	PACIFIC MARBLE & GRANITE
LOCATION	Honolulu, HI
COMMERCIAL BUILDING COMPONENTS, INC.	
California Office & Plant - 208-943-0910	
15000 So. McKinley, Lubbock, CA 95300	
Washington Office - 208-432-5048	
P.O. Box 768, Bellevue, WA 98008	
Washington Toll Free 1-800-527-5078	
CBC	STEEL BUILDINGS
REVISION	
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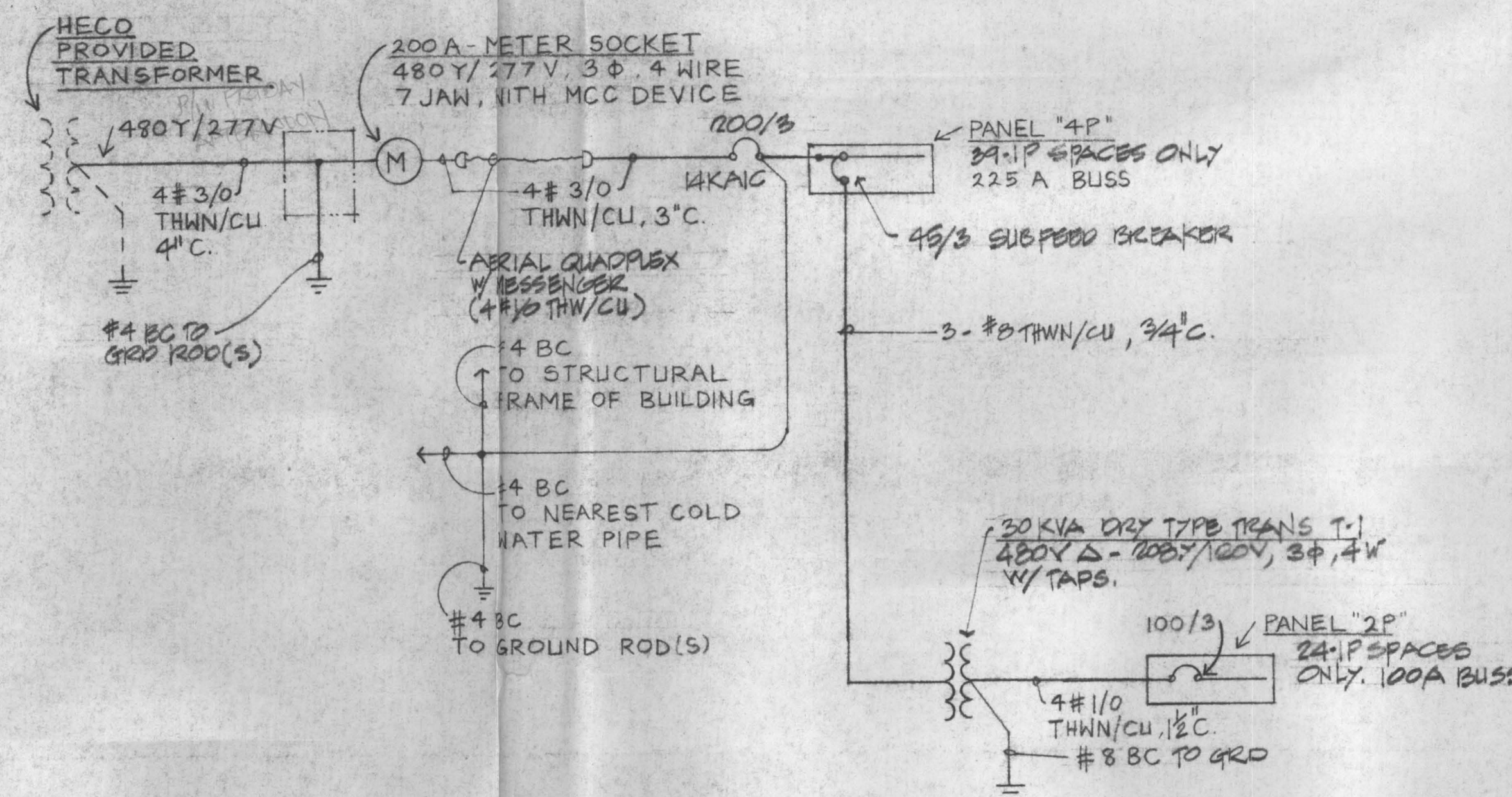
(A) ELECTRICAL SITE PLAN
E-1 SCALE: 1"=10' TMK: 1-9-9-13:2
 REVISED 21 DEC '90



(B) ELEVATION - METERING EQUIPMENT
E-1 NOT TO SCALE



(C) ELEV - BUS SERVICE MAIN
E-1 NOT TO SCALE



(C) ONE-LINE DIAGRAM
E-1 NOT TO SCALE

ELECTRICAL SYMBOLS

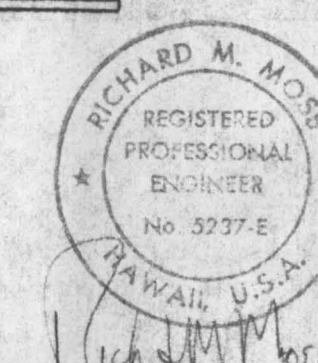
- RACEWAY AND CONDUCTORS EXPOSED
- RACEWAY AND CONDUCTORS BELOW FLOOR OR GRADE
- ~~~~~ FLEXIBLE RACEWAY AND CONDUCTORS
- PANELBOARD
- METER / MAIN
- TRANSFORMER

GENERAL NOTES AND SPECIFICATIONS

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY OTHER REGULATORY AGENCY HAVING JURISDICTION IN THIS AREA.
2. ALL CONDUCTORS SHALL BE COPPER, INSULATION THW, THHN, OR THWN. CONDUIT FILL SHALL NOT EXCEED N.E.C. REQUIREMENTS.
3. ALL EXPOSED CONDUIT SHALL BE EMT EXCEPT WHERE INDICATED OTHERWISE. CONDUIT CONCEALED IN WALLS AND ABOVE CEILING SHALL BE EMT EXCEPT FLEXIBLE METAL CONDUIT SHALL BE USED FOR LIGHT FIXTURE CONNECTIONS AND AS INDICATED ON PLANS. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR EQUIPMENT CONNECTIONS.
4. CONTRACTOR SHALL SUPPLY ALL MISCELLANEOUS PARTS AND MATERIALS FOR THE COMPLETE LIGHTING AND ELECTRICAL SYSTEMS TO PROVIDE PROPERLY FUNCTIONING SYSTEMS.
5. LUMINAIRES SHALL BE PROVIDED WITH LAMPS AND ALL ACCESSORIES REQUIRED. ALL BALLASTS SHALL BE ENERGY SAVING 120V HFP CDM APPROVED.
6. LOCATIONS SHOWN FOR ELECTRICAL EQUIPMENT OUTLETS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION TO MATCH EQUIPMENT SUPPLIED.
7. CONTRACTOR SHALL VERIFY LOADS WITH ALL EQUIPMENT SELECTED AND MAKE ALL CHANGES REQUIRED TO INSURE INSTALLATION IS IN CONFORMANCE WITH N.E.C.
8. EXISTING ELECTRICAL EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE. VERIFY EXISTING CONDITION PRIOR TO BIDDING.
9. OBTAIN AND PAY FOR ELECTRICAL PERMIT, ARRANGE FOR PERIODIC INSPECTION BY REGULATORY AUTHORITIES AND DELIVER CERTIFICATE OF FINAL INSPECTION TO OWNER.
10. ELECTRICAL CONTRACTOR SHALL GUARANTEE INSTALLATION FOR NOT LESS THAN ONE (1) YEAR. ALL EFFECTIVE PARTS, MATERIALS AND INSTALLATION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE REQUIREMENTS WITH RESPECTIVE UTILITY COMPANIES.

TOPT
MOSS
HARROW
Associates

ELECTRICAL ENGINEERS
 1164 BISHOP STREET
 SUITE 1614
 HONOLULU, HAWAII 96813
 (808)524-6084



UPGRADE ELECTRIC SERVICE FOR PACIFIC MARBLE & GRANITE

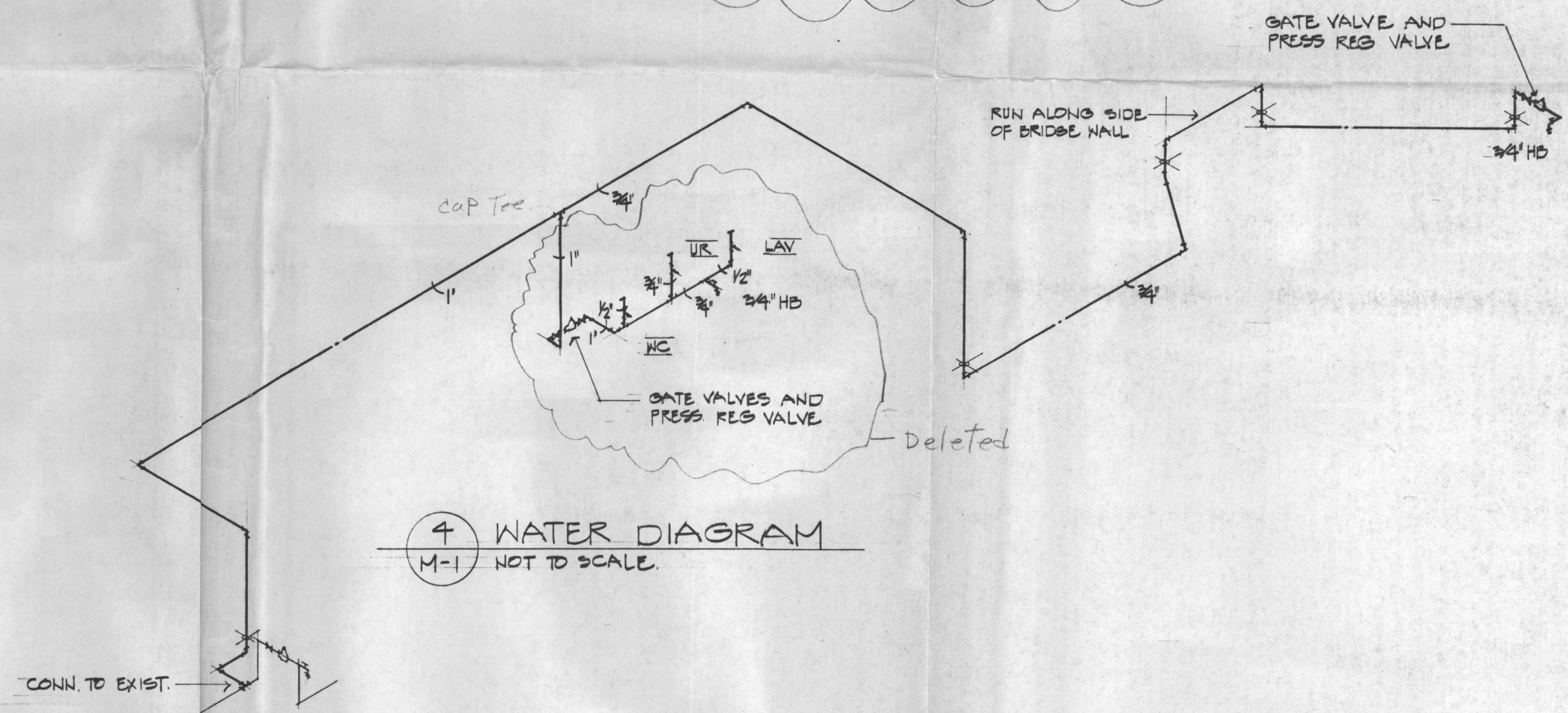
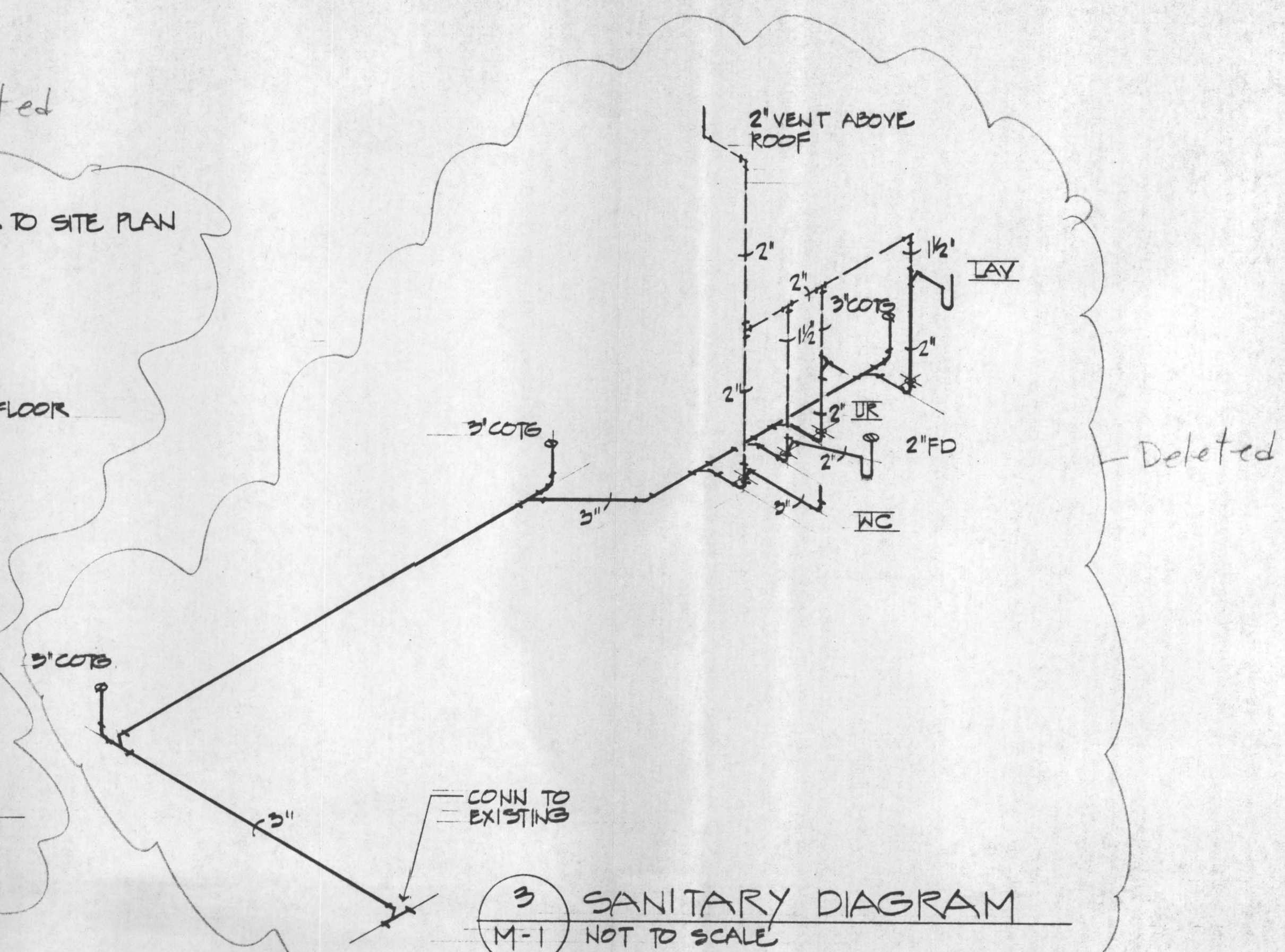
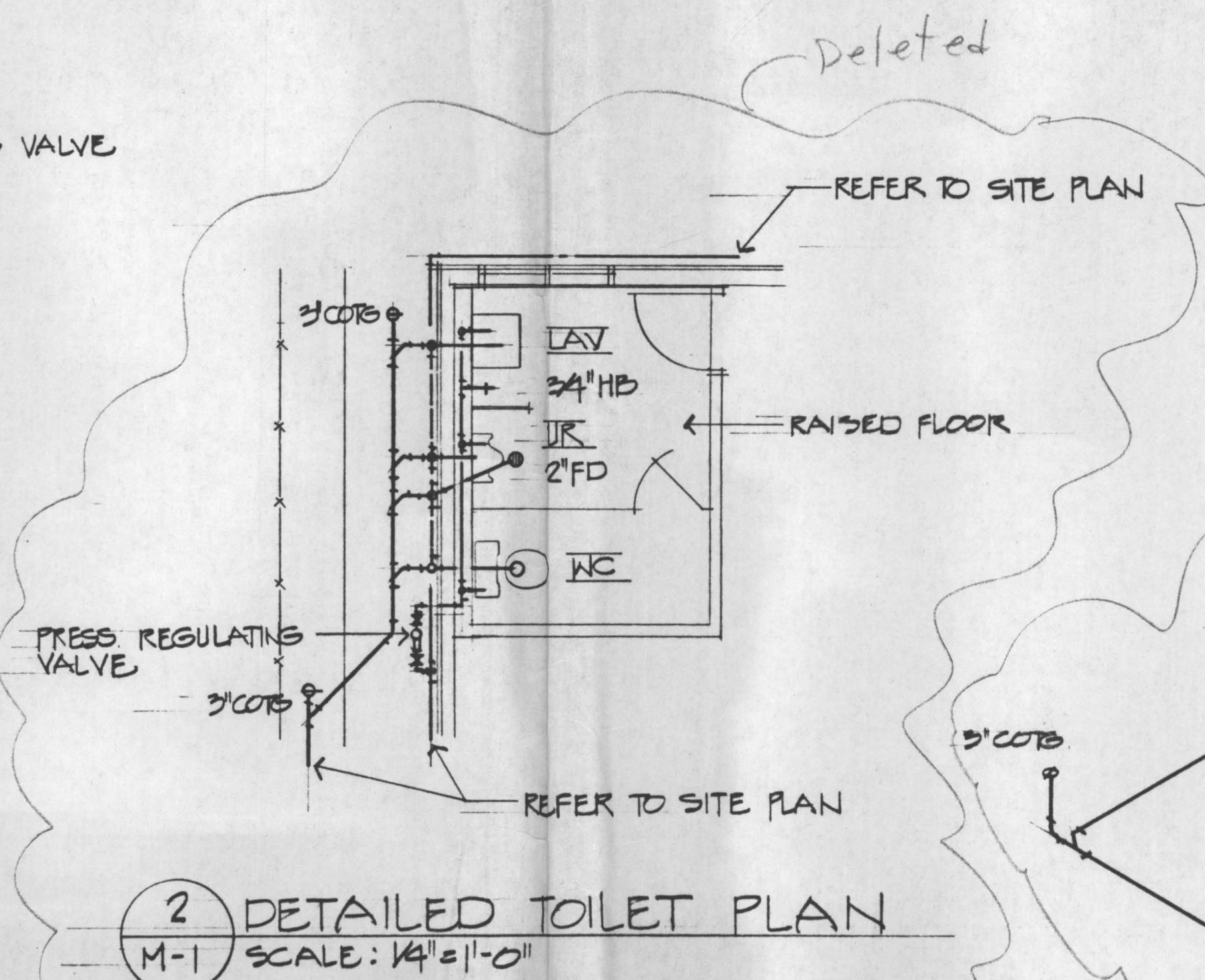
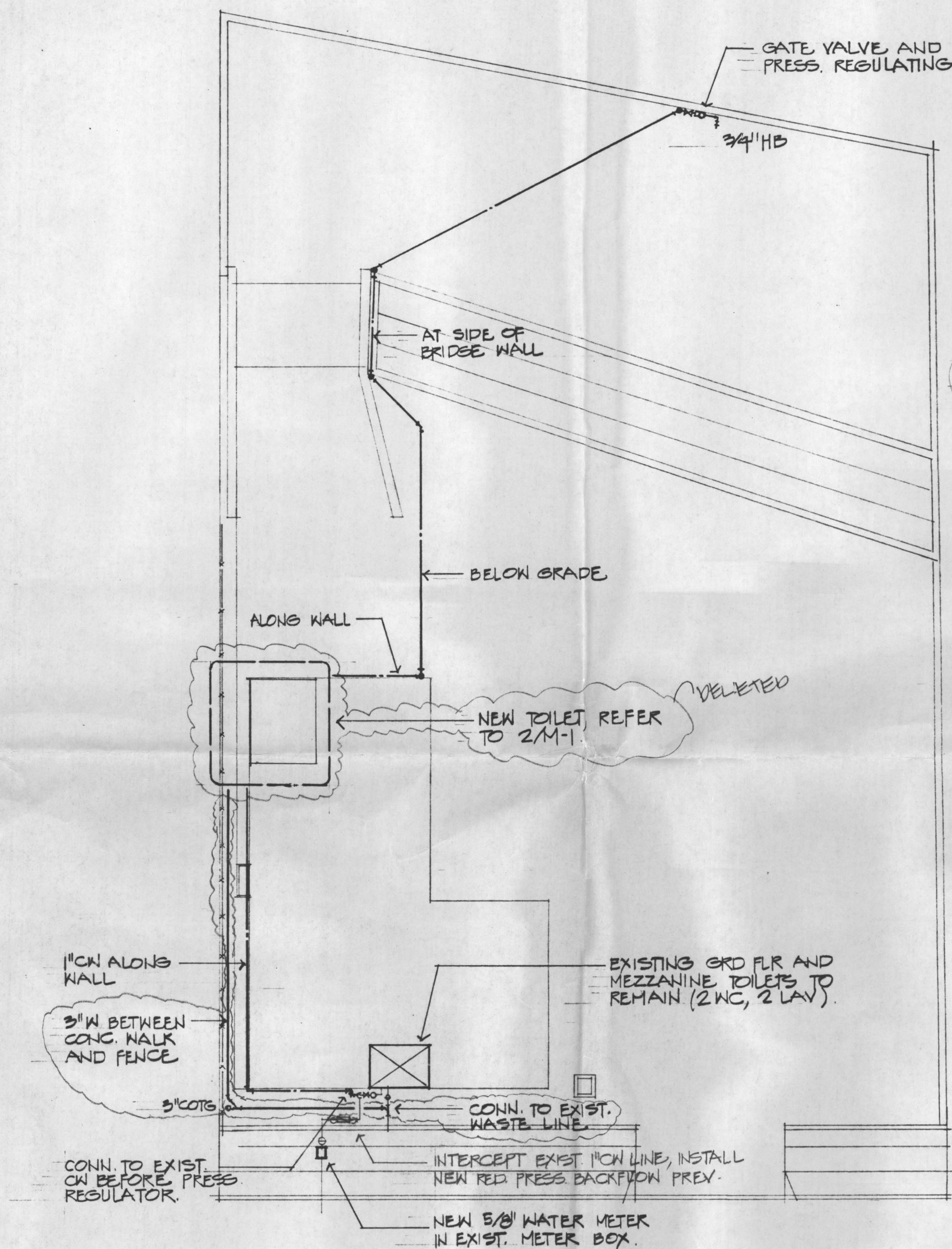
SCALE: AS NOTED APPROVED BY: _____
 DATE: DEC 1990 DRAWN BY: _____
 REVISED: 12 DEC 90

ELECTRICAL PLAN & DETAILS

REVISIONS: 12 DEC 90

DRAWING NUMBER: E-1 12054

TMF # 91325



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION.
Lance Akito Uchida
Signature

PROJECT: TOILET ADDITION TO PMG BUILDING 99-1076 IWAENA STREET AIEA OAHU HAWAII THK: 9-9-73:2			
SITE PLAN, DETAILED TOILET PLAN, DIAGRAMS			
SCALE: AS NOTED	DRAWN BY: LU		
DATE: 12/18/90	CHECKED: LU		

M-1
13 OF 14

WATER NOTES

1. PROVIDE COLD WATER SUPPLY FAUCETS WITH FLOW RESTRICTORS LIMITING FLOW TO A MAXIMUM OF 3.0 GPM.
2. WATER CLOSETS SHALL BE WATER-SAVER TYPE LIMITING WATER CONSUMPTION TO 3.0 GALLONS PER FLUSH.
3. WATER DEMAND CALCULATIONS:

EXISTING FIXTURE	QTY	EU	TOTAL
WATER CLOSET (FT)	2	3	6
URINAL	0	5	0
LAVATORY	2	1	2

			TOTAL = 8 FU

NEW FIXTURE	QTY	EU	TOTAL
WATER CLOSET (FT)	1	3	3
URINAL	1	5	5
LAVATORY	1	1	1

			TOTAL = 9 FU

NET CHANGE IN
PEAK DEMAND

= 9 FU
= 8 GPM

TOTAL ESTIMATED
PEAK DEMAND

= 8 + 9 FU = 17 FU
= 12 GPM

ESTIMATED
DAILY USAGE

= (2430 FT²) x (100 GPD/1000 FT²)
= 243 GPD

MECHANICAL LEGEND

WASTE LINE	WASTE LINE	V	VENT
VENT LINE	VENT LINE	FD	FLOOR DRAIN
COLD WATER LINE	COLD WATER LINE	LAV	LAVATORY
		HB	HOSE BIBB
		GV	GATE VALVE

GENERAL CONDITIONS

1. CONFORM TO ALL REQUIREMENTS OF THE BUILDING, PLUMBING AND ELECTRICAL CODES, STATE OF HAWAII HEALTH REGULATIONS, FIRE MARSHAL'S REGULATIONS AND OTHER APPLICABLE REGULATIONS.
2. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO BID AND CONSTRUCTION.
3. COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND DELAYS.
4. PAY FOR ALL PERMIT FEES AND APPLICATIONS.
5. PROVIDE ADDITIONAL MATERIALS AND LABOR FOR A COMPLETE OPERABLE SYSTEM AT NO EXTRA COST TO THE OWNER.

PLUMBING

1. WORK: FURNISH AND INSTALL ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE PLUMBING SYSTEM AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN.
2. MATERIALS:
 - A. PIPING MATERIALS:
 - (1) WASTE AND VENT PIPING BELOW GRADE: NO-HUB CAST IRON WITH MG OR HUSKY COUPLINGS.
 - (2) WASTE AND VENT PIPING ABOVE GRADE: NO-HUB CAST IRON WITH STAINLESS STEEL BANDS.
 - (3) WATER PIPING BELOW GRADE: TYPE K COPPER WITH 95/5 TIN/ANTIMONY SOLDERED JOINTS.
 - (4) WATER PIPING ABOVE GRADE: TYPE L COPPER WITH 95/5 TIN/ANTIMONY SOLDERED JOINTS.
 - B. FIXTURES:
 - (1) WATER CLOSET: AMERICAN STANDARD NO. 2812.053, VITREOUS CHINA, ELONGATED SIPHON JET ACTION, CLOSE-COUPLED TANK WITH WATER-SAVING TRIM AND BOLT CAPS. OLSONITE NO. 34 CLOSED FRONT SEAT WITH COVER.
 - (2) LAVATORY: AMERICAN STANDARD NO. 0195.073, VITREOUS CHINA, 20"X 18" OVERALL DIMENSIONS, WALL HUNG LAVATORY WITH CONCEALED ARM SUPPORTS. DELTA MODEL 2303 CHROME LAVATORY FAUCET WITH VANDAL RESISTANT AERATOR. PERFORATED GRID STRAINER AND CHROME HOLE COVERS. PROVIDE FLOOR MOUNTED CONCEALED ARM CARRIER SUPPORTS.
 - (3) URINAL: AMERICAN STANDARD NO. 6501.010 VITREOUS CHINA, WASHOUT WATER SAVER URINAL, 3/4-INCH TOP SPUD WITH WALL CARRIER.
 - (4) FLOOR DRAIN: SMITH FIG. 2005-A DUCO CAST IRON BODY WITH HEEL-PROOF NICKEL BRONZE ADJUSTABLE STRAINER HEAD.
3. INSTALLATION:
 - A. PROVIDE P-TRAPS AND STOPS/VALVES FOR ALL FIXTURES.
 - B. STERILIZE AND TEST ALL WASTE AND WATER LINES IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PLUMBING CODE.
 - C. PROVIDE DIELECTRIC UNIONS WHERE COPPER PIPE IS CONNECTED TO FERROUS PIPE.
 - D. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE IAPMO PLUMBING CODE AS AMENDED BY THE BUILDING DEPARTMENT.

SPECIFICATIONS FOR THE INSTALLATION OF BACKFLOW PREVENTION DEVICES

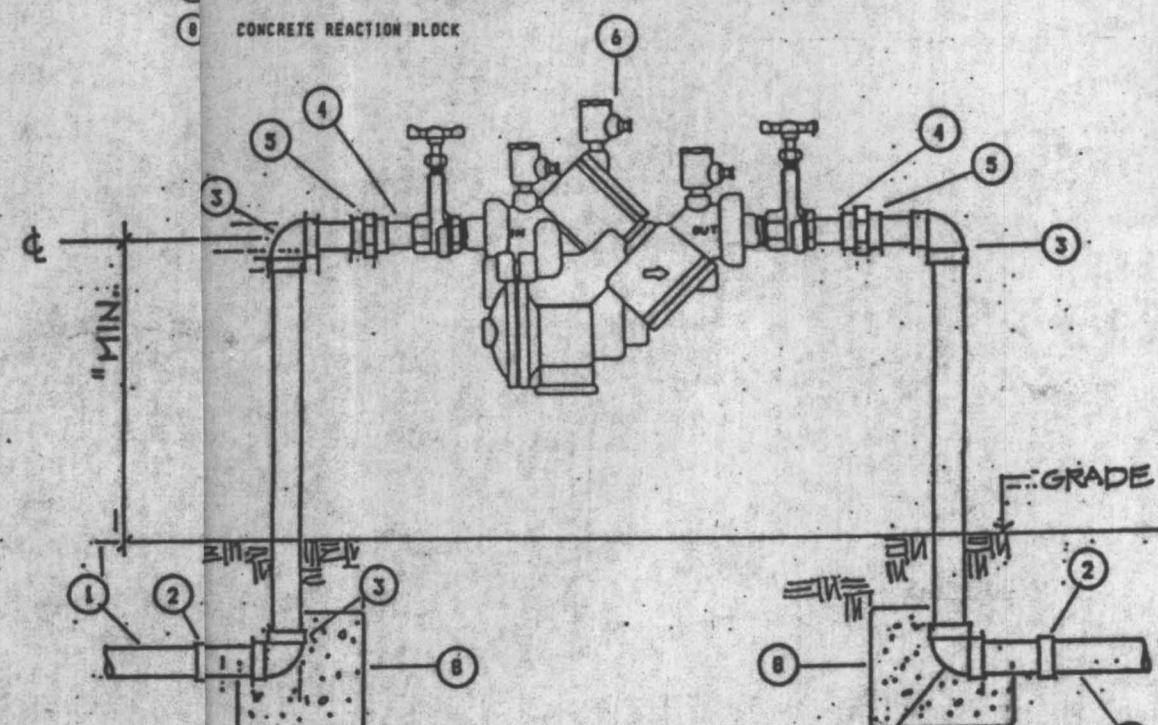
The Water System Standards, Volumes 1 and 2, 1985, adopted by the Department of Water, County of Hawaii, Department of Water Supply, County of Maui, Department of Water Supply, County of Kauai, and County of Honolulu, for use in the design and construction of the department's water system facilities, and the Manual on Cross-Connection Control and Backflow Prevention, approved by the Manager and Chief Engineer, Department of Water, on March 1, 1985, are referred to and hereby made a part of the Contract and shall apply in all cases except when modified below or as called for otherwise in the plans or in the proposal.

1. The Contractor shall submit the name of its authorized superintendent on the job.
2. The Contractor shall notify the Department of Water at least three (3) working days prior to start of construction to ensure that inspection services will be available.
3. The Contractor shall notify the Department of Water within 24 hours after completing the installation of the backflow prevention device.
4. Approval of the construction plans by the Manager and Chief Engineer is based solely on the backflow prevention device meeting the Rules and Regulations of the Department of Water.

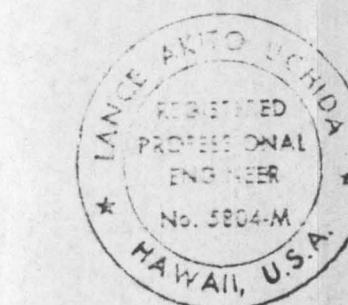
Manager and Chief Engineer _____ Date: _____
 Name: _____ Title: _____
 Address: _____ Phone No.: _____

MATERIALS LIST

- A. WATER LINE (FROM SOURCE)
- B. ADAPTERS AND BUSHINGS AS NECESSARY
- C. 1/2" NO-DEGREE COPPER ELBOW
- D. COPPER WIPPLE, TYPE K
- E. BRONZE UNION, C/P
- F. REDUCED PRESSURE BACKFLOW PREVENTER
- G. WATER LINE (TO POINT OF USE)
- H. CONCRETE REACTION BLOCK



1 REDUCED PRESS. BACKFLOW PREVENTER
 M-2 NOT TO SCALE



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 Signature: _____

PROJECT: TOILET ADDITION TO PMG BUILDING
 99-1076 IMAENA STREET
 AIEA OAHU HAWAII
 TMK: 9-9-73:2

LEGEND, WATER NOTE, SPECS

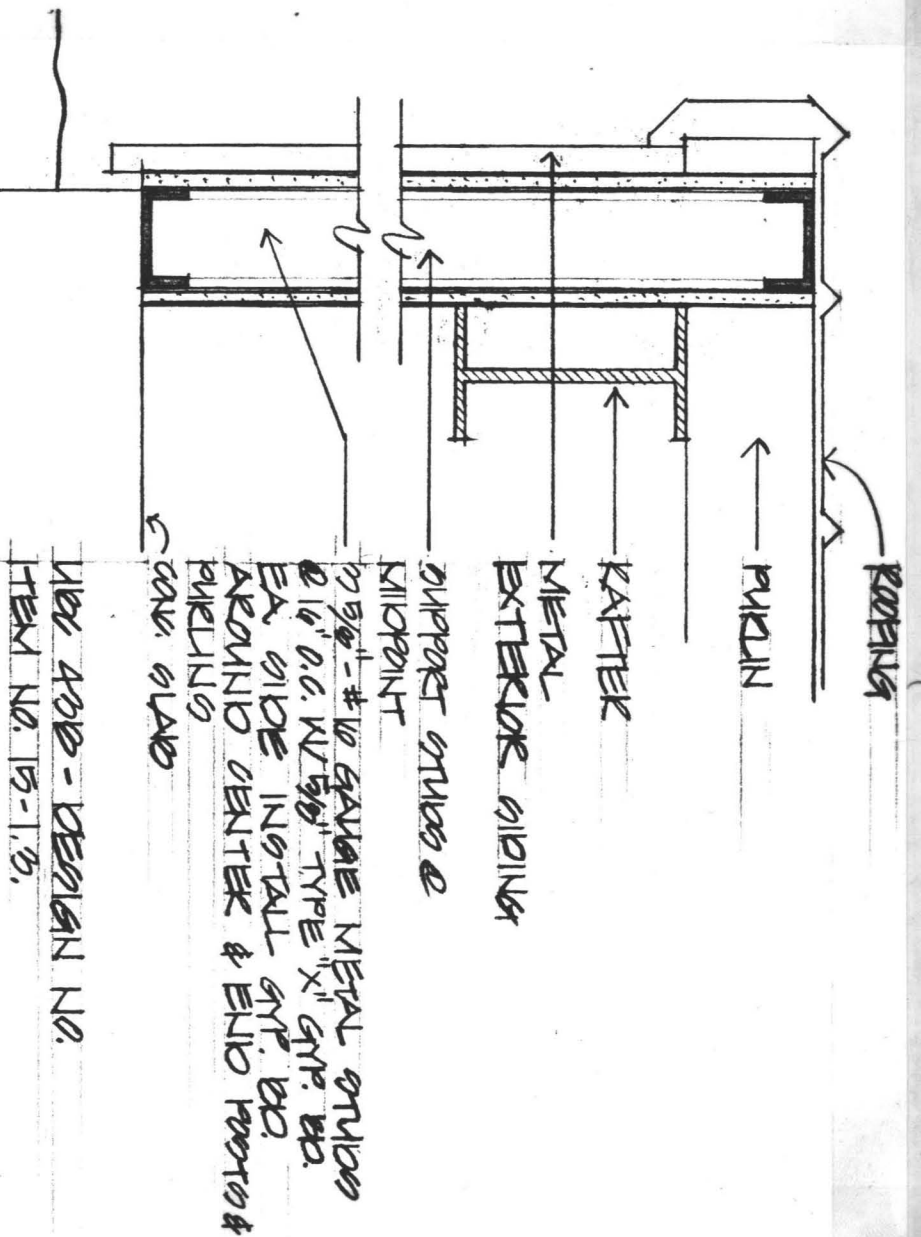
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 DATE: 12/18/90 CHECKED: LU

M-2
 14 of 14

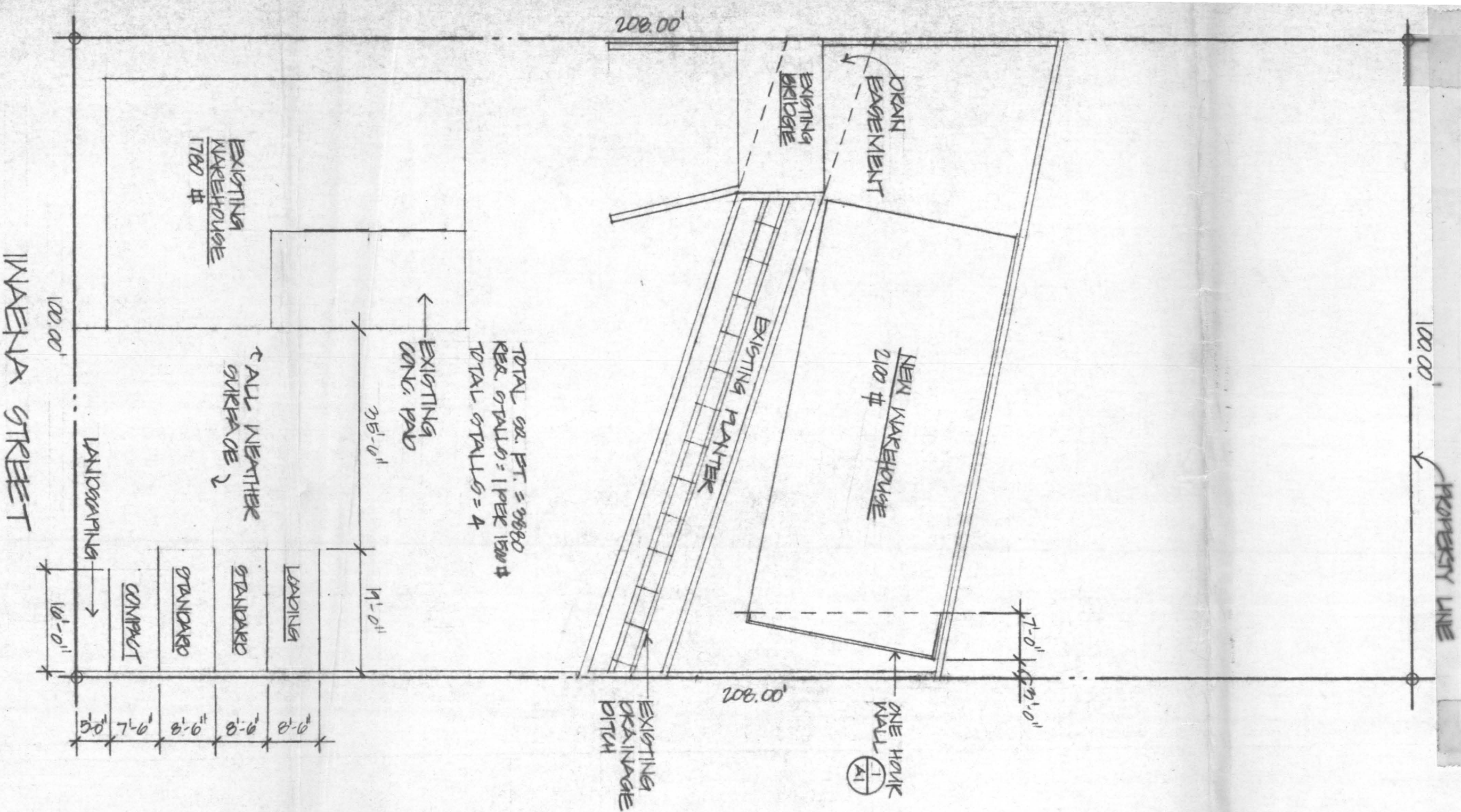
WALL SECTION 1

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

A-1



NEW 400 - DESIGN NO. 15-1-5.



TOTAL GR. FT. = 3880
REQ. STALLS = 1 PER 1500 #
TOTAL STALLS = 4

SITE PLAN
SCALE: 1/16" = 1'-0"
T.M.K.: 9-9-79:2

PACIFIC MARBLE & GRANITE

99-1076 INAENA STREET, AIEA, HAWAII 96701

SITE PLAN

1-9-91
2-14-91
5-11-91

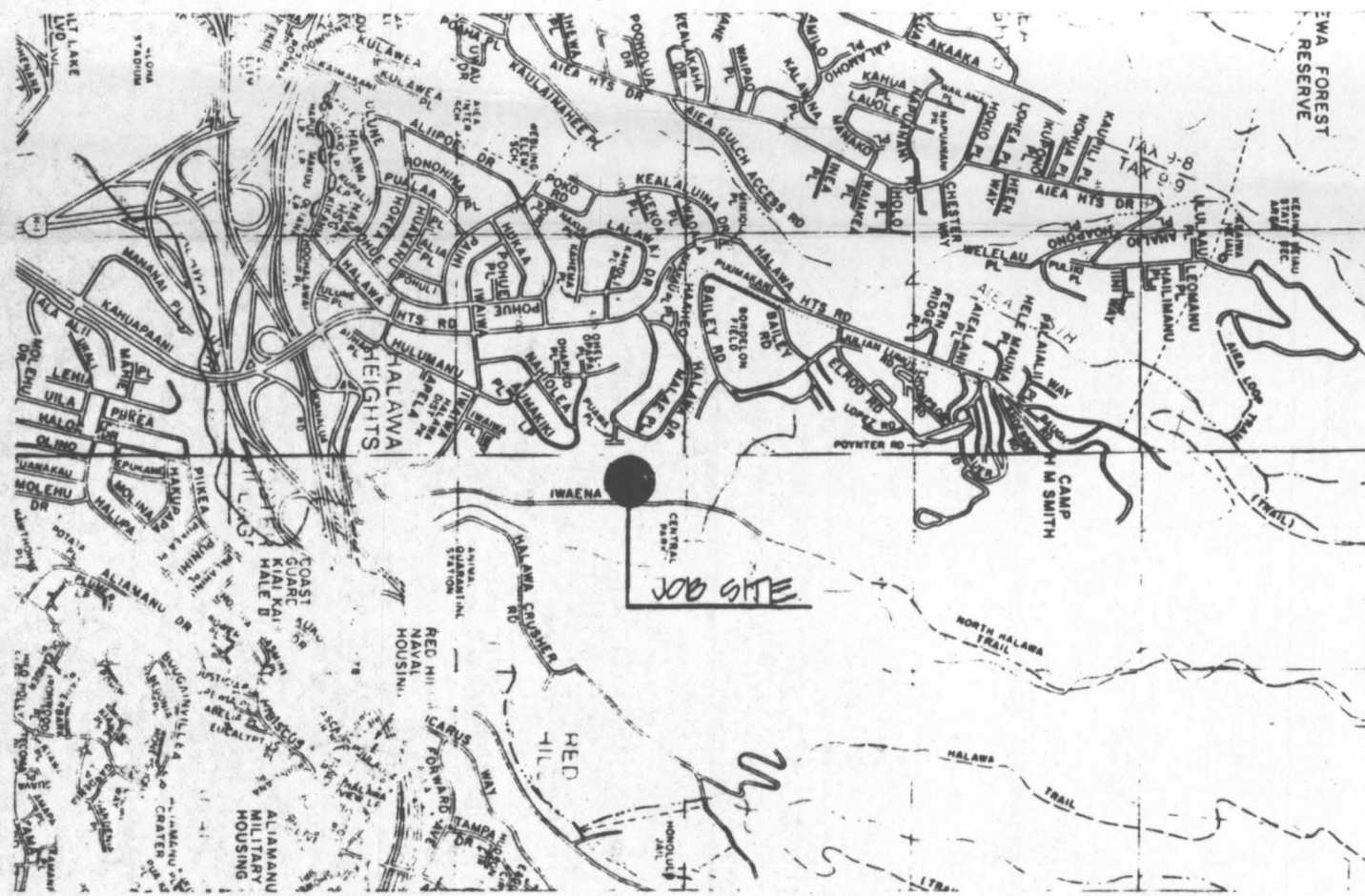


HENRY E. REESE, AIA
735 BISHOP STREET #500
HONOLULU, HAWAII 96813
TELEPHONE 833-0000

Henry E. Reese
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ME OR UNDER MY SUPERVISION.
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY SUPERVISION.

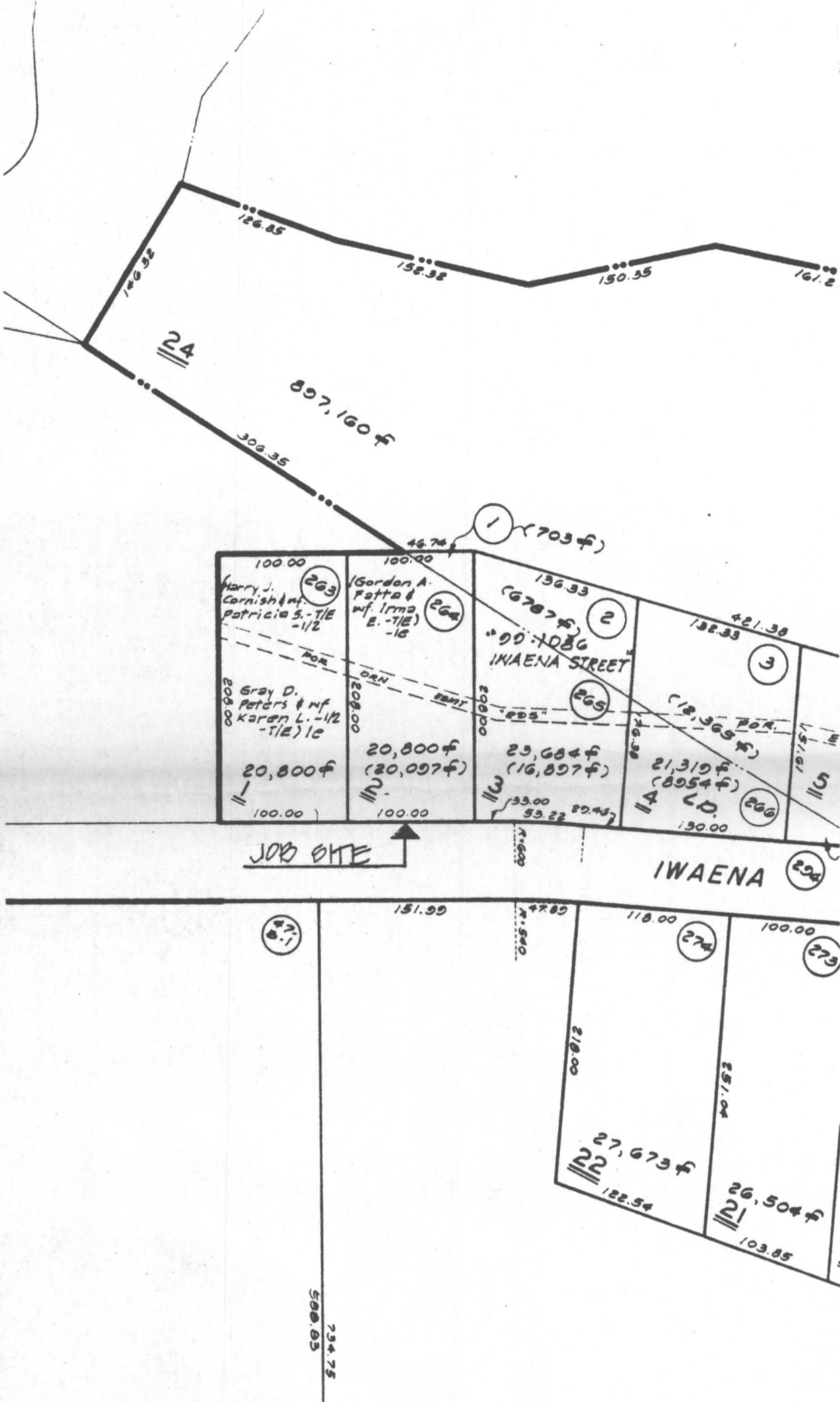
A1

1 OF 14



LOCATION MAP
NOT TO SCALE

1
A-2



VICINITY MAP

2
A-2

PACIFIC MARBLE & GRANITE
99-1076 IWAENA STREET, AIEA, HAWAII 90701

LOCATION MAP & VICINITY MAP

A2

2 OF 14



HENRY E. REESE, AIA
795 BISHOP STREET #500
HONOLULU, HAWAII 96813
TELEPHONE 593-0000

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ME OR UNDER MY SUPERVISION
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY SUPERVISION

2-19-91
3-11-91