

Table 1**IFR - Surface Lead Wipe Sample Results****HIARNG
Wheeler AAF Armory**

IFR Lead Wipe Data			
Sample Number	Collection Date	Location	Result $\mu\text{g}/\text{ft}^2$
050-01	2/11/2014	Former Firing Lane - Floor	170
050-02	2/11/2014	Former Mid-Range - Floor	75
050-03	2/11/2014	Former Bullet Trap - Floor	180
050-04	2/11/2014	East Wall Between the Former Firing Lanes and Mid-Range	<12
050-05	2/11/2014	West Wall by the Former Bullet Trap Area	<12
050-06	2/11/2014	Entryway to Former IFR - Floor	<12
050-07	2/11/2014	Southwest Supply Ventilation Duct	18,000
050-08	2/11/2014	Top of Light Fixture behind Former Firing Lane	1,200
050-09	2/11/2014	North Supply Ventilation Duct	4,900
050-10	2/11/2014	North Middle Light Support - I-Beam	720
050-11	2/11/2014	Exposed Concrete Ceiling	83
050-12	2/11/2014	Field Blank	<12
743-19R	2/4/2015	Exhaust Fan Shroud	106,955
743-20R	2/4/2015	North Supply Duct Shroud	405
743-21R	2/4/2015	South Supply Duct Shroud	832
743-174W	2/6/2015	IFR Storage Room - Floor	321
743-26R	2/4/2015	Blank	<4.5

Table 3

Roof Lead Wipe Sample Results

HIARNG
Wheeler AAF Armory

Exterior Roof Lead Wipe Sample Data

Sample Number	Collection Date	Location	Result $\mu\text{g}/\text{ft}^2$
743-01R	2/4/2015	East Roof - North Side	20
743-02R	2/4/2015	East Roof - North Side	35
743-03R	2/4/2015	East Roof - North Side	17
743-04R	2/4/2015	East Roof - North Side	24
743-05R	2/4/2015	East Roof - North Side	20
743-06R	2/4/2015	East Roof - South Side	21
743-07R	2/4/2015	East Roof - South Side	15
743-08R	2/4/2015	East Roof - South Side	15
743-09R	2/4/2015	East Roof - South Side	21
743-10R	2/4/2015	East Roof - South Side	13
743-11R	2/4/2015	West Upper Roof - North Side	49
743-12R	2/4/2015	West Upper Roof - North Side	54
743-13R	2/4/2015	West Upper Roof - North Side	253
743-14R	2/4/2015	West Upper Roof - North Side	17
743-15R	2/4/2015	West Upper Roof - South Side	18
743-16R	2/4/2015	West Upper Roof - South Side	14
743-17R	2/4/2015	West Upper Roof - South Side	380
743-18R	2/4/2015	West Upper Roof - South Side	170
743-22R	2/4/2015	West Lower Roof - South Side	6.4
743-23R	2/4/2015	West Lower Roof - South Side	272
743-24R	2/4/2015	West Lower Roof - South Side	9.4
743-25R	2/4/2015	West Lower Roof - South Side	28
743-26R		Blank	<4.5

Table 4

**Ventilation Air-Conditioning Units
Lead Wipe Sample Results**

**HIARNG
Wheeler AAF Armory**

HVAC System Lead Wipe Sample Data			
Sample Number	Collection Date	Location	Result µg/ft²
743-HVAC-01	2/5/2015	East Roof-Mounted Ventilation and Air-Conditioning Unit - Intake Side	135
743-HVAC-02	2/5/2015	East Roof-Mounted Ventilation and Air-Conditioning Unit - Discharge Side	<4.5
743-HVAC-03	2/5/2015	East Roof-Mounted Ventilation and Air-Conditioning Unit - Intake Side	1,170
743-HVAC-04	2/5/2015	Kitchen Make-Up Air Unit (South) - Discharge Side. Note - These units are corroded and access could not be obtained to the entire unit.	1,268
743-HVAC-05	2/5/2015	Kitchen Make-Up Air Unit (North) - Discharge Side. Note - These units are corroded and access could not be obtained to the entire unit.	519
743-HVAC-06	2/5/2015	Room 124 - Ventilation and Air-Conditioning Unit - Intake Side.	473
743-HVAC-07	2/5/2015	Room 124 - Ventilation and Air-Conditioning Unit - Discharge Side.	20
743-HVAC-08	2/5/2015	Room 103 - Window-Mounted AC - Discharge Side	<4.5
743-HVAC-09	2/5/2015	Room 105 - Window-Mounted AC - Discharge Side	145
743-HVAC-10	2/5/2015	Room 109 - Window-Mounted AC - Discharge Side	<4.5
743-82W	2/3/2015	Room 125A - Inside Supply Air Duct	287
743-HVAC-11	2/5/2015	Blank Sample	<4.5

Table 6

Surface Lead Wipe Sample Results

HIARNG
Wheeler AAF Armory

Non-Occupied Spaces - Above Ceiling - Lead Wipe Data			
Sample Number	Collection Date	Location	Result $\mu\text{g}/\text{ft}^2$
743-09W	2/2/2015	Hallway 302 - Top of Light Fixture	560
743-10W	2/2/2015	Hallway 302 - Top of Light Fixture	524
743-11W	2/2/2015	Hallway 302 - Top of Ceiling Tile	<4.5
743-16W	2/2/2015	Hallway 302 - Top of Light Fixture	125
743-22W	2/2/2015	Hallway 302 - Top of Ceiling Tile	<4.5
743-23W	2/2/2015	Room 307 - Top of Ceiling Tile	<4.5
743-26W	2/2/2015	Room 308 - Top of Return Air Duct	989
743-29W	2/2/2015	Room 306 - Top of Ceiling Tile	<4.5
743-32W	2/2/2015	Hallway 302 - Top of Light Fixture	141
743-34W	2/2/2015	Room 305 - Top of Light Fixture	54
743-37W	2/2/2015	Hallway 302 - Top of Ceiling Tile	<4.5
743-49W	2/2/2015	Room 303 - Top of Light Fixture	<4.5
743-52W	2/2/2015	Hallway 302 - Top of Light Fixture	<4.5
743-53W	2/2/2015	Foyer - Top of Ceiling Tile	5.0
743-54W	2/3/2015	Foyer - Top of Ceiling Tile	8.6
743-55W	2/3/2015	Central Hallway - Top of Ceiling Tile	16
743-56W	2/3/2015	Central Hallway - Top of Light Fixture	418
743-60W	2/3/2015	West Hallway - Top of Ceiling Tile	8.2
743-61W	2/3/2015	Room 115 - Top of Supply Air Duct	458
743-63W	2/3/2015	Room 114 - Top of Light Fixture	15
743-66W	2/3/2015	Room 116 - Top of Supply Air Duct	424
743-68W	2/3/2015	West Hallway - Top of Light Fixture	106
743-71W	2/3/2015	Room 118 - Top of Ceiling Tile	24
743-74W	2/3/2015	West Hallway - Top of Ceiling Tile	6.6
743-75W	2/3/2015	Hallway 111 - Top of Ceiling Tile	10,680
743-76W	2/3/2015	Room 110 - Hard Ceiling Above Ceiling Access Hatch	698
743-86W	2/3/2015	West Hallway - Top of Ceiling Tile	37
743-87W	2/3/2015	Room 109 - Top of Supply Air Duct	619
743-90W	2/3/2015	Room 108 - Top of Light Fixture	48
743-93W	2/3/2015	West Hallway - Top of Ceiling Tile	<4.5
743-94W	2/3/2015	Hallway 126 - Top of Ceiling Tile	201
743-95W	2/3/2015	Hallway 126 - Top of Ceiling Tile	29
743-109W	2/3/2015	Room 128 - Top of Ceiling Truss Member	<4.5
743-110W	2/3/2015	West Hallway - Top of Ceiling Tile	8.1
743-111W	2/3/2015	Room 107 - Top of Supply Air Duct	539
743-112W	2/3/2015	Room 107 - Top of Ceiling Tile	<4.5

Table 6**Surface Lead Wipe Sample Results****HIARNG
Wheeler AAF Armory**

743-115W	2/3/2015	Room 106 - Top of Light Fixture	17
743-118W	2/4/2015	Room 129 - Top of Light Fixture	18
743-121W	2/4/2015	Room 103 - Top of Supply Air Duct	504
743-123W	2/4/2015	Room 104 - Top of Ceiling Tile	<4.5
743-125W	2/4/2015	Room 105 - Top of Supply Air Duct	437
743-130W	2/4/2015	West Hallway - Top of Ceiling Tile	<4.5
743-131W	2/4/2015	West Hallway - Top of Ceiling Tile	5.4
743-132W	2/4/2015	Room 218 - Top of Ceiling Tile	<4.5
743-133W	2/4/2015	Room 218 - Top of Ceiling Tile	<4.5
743-134W	2/4/2015	Room 218 - Top of Light Fixture	12
743-137W	2/4/2015	Room 216 - Top of Supply Air Duct	314
743-140W	2/4/2015	Room 217 - Top of Ceiling Tile	<4.5
743-142W	2/4/2015	Upstairs Hallway - Top of Ceiling Tile	<4.5
743-143W	2/4/2015	Upstairs Hallway - Top of Light Fixture	28
743-148W	2/4/2015	Upstairs Hallway - Top of Light Fixture	967
743-149W	2/4/2015	Upstairs Hallway - Top of Ceiling Tile	<4.5
743-150W	2/4/2015	Upstairs Hallway - Top of Ceiling Tile	<4.5
743-153W	2/5/2015	Room 209 - Top of Light Fixture	8.6
743-154W	2/5/2015	Room 209 - Top of Ceiling Tile	<4.5
743-157W	2/5/2015	Room 208 - Top of Ceiling Tile	<4.5
743-160W	2/5/2015	Room 206 - Top of Ceiling Tile	<4.5
743-163W	2/5/2015	Room 204 - Top of Supply Air Duct	324
743-167W	2/5/2015	Upstairs Hallway - Top of Ceiling Tile	<4.5
743-168W	2/5/2015	Upstairs Hallway - Top of Ceiling Tile	<4.5
743-178W	2/6/2015	AASF Security Office/Break Room - Top of Light Fixture	366
743-180W	2/6/2015	Blank Sample	<4.5

Table 7

Surface Lead Wipe Sample Results

HIARNG
Wheeler AAF Armory

Occupied Spaces - Lead Wipe Data			
Sample Number	Collection Date	Location	Result µg/ft²
743-01W	2/2/2015	Room 313 - Top of Light Fixture	585
743-02W	2/2/2015	Room 313 - Floor	<4.5
743-03W	2/2/2015	Room 312 - Weapons Vault - Floor	23
743-04W	2/2/2015	Room 312 - Weapons Vault - Floor	29
743-05W	2/2/2015	Room 311 - Top of Cabinet	488
743-06W	2/2/2015	Room 311 - Floor	17
743-07W	2/2/2015	Supply Room Hallway - Floor	7.0
743-08W	2/2/2015	Supply Room Hallway - Top of Light Fixture	1,016
743-12W	2/2/2015	Room 315 - Top of Light Fixture	215
743-13W	2/2/2015	Room 315 - Top of Ceiling Truss Member	1,239
743-14W	2/2/2015	Room 315 - Top of Locker	31
743-15W	2/2/2015	Room 315 - Floor	<4.5
743-17W	2/2/2015	Room 309 - Top of Light Fixture	625
743-18W	2/2/2015	Room 309 - Window Sill	564
743-19W	2/2/2015	Room 309 - Floor	6.2
743-20W	2/2/2015	Room 309 - Top of Ceiling Truss Member	936
743-21W	2/2/2015	Room 309 - Floor	<4.5
743-24W	2/2/2015	Room 307 - Top of Locker	38
743-25W	2/2/2015	Room 307 - Floor	<4.5
743-27W	2/2/2015	Room 308 - Top of Locker	10
743-28W	2/2/2015	Room 308 - Floor	<4.5
743-30W	2/2/2015	Room 306 - Top of T.V.	7.1
743-31W	2/2/2015	Room 306 - Floor	<4.5
743-33W	2/2/2015	Room 316 - Top of Electrical Panel Box	554
743-35W	2/2/2015	Room 305 - Top of Locker	18
743-36W	2/2/2015	Room 305 - Top of Book Case	11
743-38W	2/2/2015	Men's Restroom - Top of Light Fixture	19
743-39W	2/2/2015	Men's Restroom - Floor	6.6
743-40W	2/2/2015	Room 318 - Top of Light Fixture	1,453
743-41W	2/2/2015	Room 318 - Top of Locker	61
743-42W	2/2/2015	Room 318 - Floor	9.1
743-43W	2/2/2015	Room 318 - Top of Locker	18
743-44W	2/2/2015	Room 318 - Floor	<4.5
743-45W	2/2/2015	Room 304 - Top of Light Fixture	<4.5
743-46W	2/2/2015	Room 304 - Top of Ceiling Truss Member	1,103
743-47W	2/2/2015	Room 304 - Top of Locker	288

Table 7**Surface Lead Wipe Sample Results****HIARNG
Wheeler AAF Armory**

743-48W	2/2/2015	Room 304 - Floor	<4.5
743-50W	2/2/2015	Room 303 - Top of Locker	24
743-51W	2/2/2015	Room 303 - Floor	<4.5
743-57W	2/3/2015	Central Hallway - Top of Pop Machine	30
743-58W	2/3/2015	Room 117 - Top of Light Fixture	40
743-59W	2/3/2015	Room 117 - Floor	<4.5
743-62W	2/3/2015	Room 115 - Top of Bookcase	<4.5
743-64W	2/3/2015	Room 114 - Top of Bookcase	<4.5
743-65W	2/3/2015	Room 114 - Floor	<4.5
743-67W	2/3/2015	Room 116 - Top of Locker	21
743-69W	2/3/2015	Room 113 - Top of Return Air Duct	1,123
743-70W	2/3/2015	Room 113 - Floor	8.4
743-72W	2/3/2015	Room 118 - Top of Server Box	30
743-73W	2/3/2015	Room 118 - Floor	16
743-77W	2/3/2015	Room 110 - Top of Locker	215
743-78W	2/3/2015	Room 110 - Floor	<4.5
743-79W	2/3/2015	Room 125 - Top of Supply Air Duct	397
743-80W	2/3/2015	Room 125 - Floor	<4.5
743-81W	2/3/2015	Room 125A - Top of Ceiling Truss Member	2,920
743-83W	2/3/2015	Room 125A - Floor	6.3
743-84W	2/3/2015	Room 125A - Window Sill	10,689
743-85W	2/3/2015	Room 125A - Floor	6.1
743-88W	2/3/2015	Room 109 - Window Sill	<4.5
743-89W	2/3/2015	Room 109 - Floor	24
743-91W	2/3/2015	Room 108 - Top of Locker	43
743-92W	2/3/2015	Room 108 - Floor	27
743-96W	2/3/2015	Room 121 - Top of Light Fixture	437
743-97W	2/3/2015	Room 121 - Floor	39
743-98W	2/3/2015	Room 123 - Top of Supply Air Duct	2,064
743-99W	2/3/2015	Room 123 - Floor	21
743-100W	2/3/2015	Walkway Between Rooms 121-123 - Floor	<4.5
743-101W	2/3/2015	Room 124 - Top of Electrical Switch Board	26,818
743-102W	2/3/2015	Room 124 - Floor	103
743-103W	2/3/2015	Room 127 - Top of Locker	<4.5
743-104W	2/3/2015	Room 127 - Top of Ceiling Truss Member	585
743-105W	2/3/2015	Room 122 - Weapons Vault - Floor	119
743-106W	2/3/2015	Room 122 - Weapons Vault - Floor	66
743-108W	2/3/2015	Room 128 - Top of Locker	218
743-109W	2/3/2015	Room 128 - Floor	<4.5
743-113W	2/3/2015	Room 107 - Top of Locker	161
743-114W	2/3/2015	Room 107 - Floor	<4.5

Table 7**Surface Lead Wipe Sample Results****HIARNG
Wheeler AAF Armory**

743-116W	2/3/2015	Room 106 - Top of File Cabinet	<4.5
743-117W	2/3/2015	Room 106 - Floor	<4.5
743-119W	2/4/2015	Room 129 - Top of Desk	<4.5
743-120W	2/4/2015	Room 129 - Floor	<4.5
743-122W	2/4/2015	Room 103 - Top of Locker	100
743-124W	2/4/2015	Room 104 - Floor	<4.5
743-126W	2/4/2015	Room 105 - Floor	<4.5
743-127W	2/4/2015	Room 131 - Top of Freezer	269
743-128W	2/4/2015	Room 131 - Scullery Countertop	27
743-129W	2/4/2015	Room 131 - Floor	6.9
743-135W	2/4/2015	Room 218 - Top of Book Shelf	<4.5
743-136W	2/4/2015	Room 218 - Floor	<4.5
743-138W	2/4/2015	Room 216 - Window Sill	100
743-139W	2/4/2015	Room 216 - Floor	<4.5
743-141W	2/4/2015	Room 217 - Floor	<4.5
743-144W	2/4/2015	Upstairs Janitor's Closet - Top of Electrical Panel Box	224
743-145W	2/4/2015	Upstairs Men's Restroom - Window Sill	25
743-146W	2/4/2015	Upstairs Men's Restroom - Floor	<4.5
743-147W	2/4/2015	Upstairs Women's Restroom - Floor	<4.5
743-151W	2/5/2015	Room 210 - Top of Light Fixture	27
743-152W	2/5/2015	Room 210 - Top of Return Air Duct	612
743-155W	2/5/2015	Room 209 - Top of Book Shelf	18
743-156W	2/5/2015	Room 209 - Floor	<4.5
743-158W	2/5/2015	Room 208 - Top of Bookcase	<4.5
743-159W	2/5/2015	Room 208 - Floor	<4.5
743-161W	2/5/2015	Room 206 - Top of Cabinet	<4.5
743-162W	2/5/2015	Room 206 - Floor	<4.5
743-164W	2/5/2015	Room 204 - Top of Bookcase	17
743-165W	2/5/2015	Room 204 - Floor	<4.5
743-166W	2/5/2015	Room 204 - Floor	5.3
743-169W	2/5/2015	Room 127A - Top of Locker	<4.5
743-170W	2/5/2015	Room 127A - Floor	<4.5
743-171W	2/5/2015	Room 314 - Top of Shelf	464
743-172W	2/5/2015	Room 314 - Floor	18
743-173W	2/6/2015	Blank	<4.5
743-179W	2/6/2015	AASF Security Office/Break Room - Top of Coke Machine	27
743-180W	2/6/2015	AASF Security Office/Break Room - Floor	<4.5

Table 9

Lead Wipe Sample Results

HIARNG
Wheeler AAF Armory

Interior Supply & Return Ducts and Exhaust Fan Lead Wipe Sample Results			
Sample Number	Collection Date	Location	Result $\mu\text{g}/\text{ft}^2$
743-01	2/2/2015	Room 307 - Supply Air Duct	22
743-02	2/2/2015	Room 307 - Return Air Duct	281
743-03	2/2/2015	Room 308 - Supply Air Duct	13
743-04	2/2/2015	Room 308 - Return Air Duct	290
743-05	2/2/2015	Room 306 - Supply Air Duct	38
743-06	2/2/2015	Room 306 - Supply Air Duct	15
743-07	2/2/2015	Room 306 - Return Air Duct	713
743-08	2/2/2015	Room 305 - Supply Air Duct	31
743-09	2/2/2015	Room 305 - Supply Air Duct	45
743-10	2/2/2015	Room 305 - Return Air Duct	622
743-11	2/2/2015	Room 303 - Supply Air Duct	22
743-12	2/2/2015	Room 303 - Supply Air Duct	36
743-13	2/2/2015	Room 303 - Return Air Duct	471
743-14	2/2/2015	Room 115 - Supply Air Duct	35
743-15	2/2/2015	Room 115 - Return Air Duct	305
743-16	2/2/2015	Room 114 - Supply Air Duct	20
743-17	2/2/2015	Room 114 - Supply Air Duct	<4.5
743-18	2/2/2015	Room 114 - Return Air Duct	49
743-19	2/2/2015	Room 116 - Supply Air Duct	29
743-20	2/2/2015	Room 116 - Return Air Duct	37
743-21	2/2/2015	Room 118 - Supply Air Duct	24
743-22	2/2/2015	Room 118 - Return Air Duct	1,351
743-23	2/2/2015	Room 110 - Women's Restroom - Exhaust Fan	125
743-24	2/2/2015	Room 109 - Supply Air Duct	32
743-25	2/2/2015	Room 109 - Supply Air Duct	47
743-26	2/2/2015	Room 109 - Return Air Duct	244
743-27	2/2/2015	Room 108 - Supply Air Duct	48
743-28	2/2/2015	Room 108 - Supply Air Duct	55
743-29	2/2/2015	Room 108 - Return Air Duct	1,108
743-30	2/2/2015	Room 128 - Supply Air Duct	42
743-31	2/2/2015	Room 128 - Return Air Duct	13
743-32	2/2/2015	Room 107 - Supply Air Duct	32
743-33	2/2/2015	Room 107 - Supply Air Duct	37
743-34	2/2/2015	Room 107 - Supply Air Duct	54
743-35	2/2/2015	Room 107 - Supply Air Duct	36
743-36	2/2/2015	Room 107 - Return Air Duct	462

Table 9

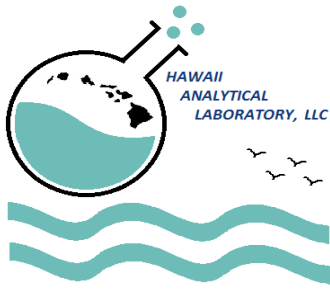
Lead Wipe Sample Results

HIARNG
Wheeler AAF Armory

743-37	2/2/2015	Room 106 - Supply Air Duct	32
743-38	2/3/2015	Room 106 - Supply Air Duct	39
743-39	2/3/2015	Room 106 - Supply Air Duct	48
743-40	2/3/2015	Room 106 - Return Air Duct	223
743-41	2/3/2015	Room 129 - Supply Air Duct	<4.5
743-42	2/3/2015	Room 129 - Return Air Duct	686
743-43	2/3/2015	Room 103 - Supply Air Duct	<4.5
743-44	2/3/2015	Room 103 - Return Air Duct	100
743-45	2/3/2015	Room 104 - Supply Air Duct	<4.5
743-46	2/3/2015	Room 104 - Return Air Duct	159
743-47	2/3/2015	Room 105 - Supply Air Duct	14
743-48	2/3/2015	Room 105 - Return Air Duct	2,217
743-49	2/3/2015	Room 131 - Exhaust Grille	132
743-50	2/3/2015	Room 131 - Exhaust Grille	241
743-51	2/3/2015	Room 218 - Supply Air Duct	19
743-52	2/3/2015	Room 218 - Supply Air Duct	7.2
743-53	2/3/2015	Room 218 - Supply Air Duct	39
743-54	2/3/2015	Room 218 - Supply Air Duct	17
743-55	2/3/2015	Room 218 - Return Air Duct	579
743-56	2/3/2015	Room 218 - Return Air Duct	1,100
743-57	2/3/2015	Room 216 - Supply Air Duct	10
743-58	2/3/2015	Room 216 - Supply Air Duct	6.8
743-59	2/3/2015	Room 216 - Supply Air Duct	6.2
743-60	2/3/2015	Room 216 - Return Air Duct	379
743-61	2/3/2015	Room 217 - Supply Air Duct	13
743-62	2/3/2015	Room 217 - Return Air Duct	371
743-63	2/3/2015	Women's Restroom - Exhaust Fan Grille	106
743-64	2/4/2015	Room 209 - Supply Air Duct	11
743-65	2/4/2015	Room 209 - Supply Air Duct	12
743-66	2/4/2015	Room 209 - Supply Air Duct	13
743-67	2/4/2015	Room 209 - Supply Air Duct	27
743-68	2/4/2015	Room 209 - Return Air Duct	534
743-69	2/5/2015	Room 208 - Supply Air Duct	11
743-70	2/5/2015	Room 208 - Supply Air Duct	7.4
743-71	2/5/2015	Room 208 - Supply Air Duct	4.8
743-72	2/5/2015	Room 208 - Supply Air Duct	20
743-73	2/5/2015	Room 208 - Return Air Duct	307
743-74	2/5/2015	Room 206 - Supply Air Duct	22
743-75	2/5/2015	Room 206 - Return Air Duct	9,273
743-76	2/5/2015	Room 204 - Supply Air Duct	21
743-77	2/5/2015	Room 204 - Supply Air Duct	30

Table 9**Lead Wipe Sample Results****HIARNG
Wheeler AAF Armory**

743-78	2/5/2015	Room 204 - Return Air Duct	10,164
743-79	2/5/2015	Blank	<4.5
743-175W	2/6/2015	AASF Security Office/Break Room - Supply Air Duct	5.3
743-176W	2/6/2015	AASF Security Office/Break Room - Supply Air Duct	571
743-177W	2/6/2015	AASF Security Office/Break Room - Return Air Duct	113



**Hawaii Analytical
Laboratory
ANALYTICAL REPORT**

Monday, April 18, 2016

3615 Harding Avenue, Ste. 308, Honolulu, Hawaii 96816
Phone: (808) 735-0422

Ohana Environmental Construction, Inc.
2968 Ualena Street

Phone Number: (808) 836-6955
Facsimile: (808) 836-3833
Email:

Honolulu HI 96819

Lab Job No: 20162209
Date received: 4/14/2016
Your Project: Wheeler Army Airfield - Bldg. 832 - Rm. #219 (4-13-2016)

Bulk Asbestos Determination

Sample No.	Your Sample Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v	Matrix	Date Analyzed
201611702	#1 - Ceiling Tile Mastic - Room # 219		NONE DETECTED		Wollastonite (+/- sign)	5	Polymeric	4/18/2016
	<u>Layer</u> <u>Brown mastic</u>							
	Comments							
201611703	#2 - Ceiling Tile Mastic - Room # 219		NONE DETECTED		Wollastonite (+/- sign)	5	Polymeric	4/18/2016
	<u>Layer</u> <u>Brown mastic</u>							
	Comments							
201611704	#3 - Ceiling Tile Mastic - Room # 219		NONE DETECTED		Wollastonite (+/- sign)	5	Polymeric	4/18/2016
	<u>Layer</u> <u>Brown mastic</u>							
	Comments							

Hawaii Analytical Laboratory is a NIST NVLAP accredited laboratory (NVLAP Lab Code 200655-0).
Hawaii Analytical Laboratory is an analytical facility accredited in accordance with the recognized ISO/ IEC 17025:2005.

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Your Project: Wheeler Army Airfield - Bldg. 832 - Rm. #219 (4-13-2016)

General Comments

The bulk sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures outlined in the United States Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020, Dec. 1982) and/ or "Method for Determination of Asbestos in bulk Building Materials" (EPA-600/R-93-116, July 1993). The analysis of each bulk sample relates only to the material examined, and may or may not represent the overall composition of its original source. Floor tile and other resinously bound materials, when analyzed by the EPA methods referenced above may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. Alternative methods of identification, including Transmission Electron Microscopy (TEM) may or may not be applicable and suffer from serious analytical limitations of their own including a lack of standardized or accredited methodology. We utilize calibrated visual area estimation on a routine basis and do not conduct point counting unless specifically requested to do so. Estimated error for the visual determinations presented are 50% relative (1 to 5%); 25% relative (6 to 25%) and 20% (>26% v/v). Whole sample percentage results are estimated on the basis of the relative "volume" of each readily discernable layer. We will not separate layers which in our opinion are not readily discernable. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government. Unless otherwise indicated, the sample condition at the time of receipt was acceptable.

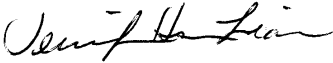
Results and Symbols Definitions

None Detected = asbestos was not observed in the sample.

Tr = Trace (<1%), i.e., asbestos WAS detected BELOW our quantifiable limits of 1.0%. Point counting and gravimetric reduction, where applicable, are recommended to improve accuracy.

> This testing result is greater than the numerical value listed.

< This testing result is less than the numerical value listed.



Ms. Jennifer Hsu Liao
Laboratory Manager

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HIARNG ENVIRONMENTAL CONTRACTOR REQUIREMENTS

PROJECT NAME:	
PROJECT NUMBER:	SUBMISSION DATE:
REVIEWER: ENV-Compliance	DATE REVIEWED:
	DATE RECEIVED:

	COMMENTS
X	In order to facilitate Emergency Planning and Community Right-to-Know Act (EPCRA) reporting requirements, prior to project start and within 30 days of completion of the project, contractor shall submit to HIARNG-ENV a Hazardous Material Inventory Log of chemical products to be used in the project, and provide an update no later than 31 January of each calendar year. The log shall include the product name and manufacturer ID number, container size, amount used, and maximum number of containers to be stored on site at any given day during the project. HIARNG-ENV may waive this requirement based upon contractor request. (Sample inventory log attached). Safety Data Sheets (SDSs) shall be provided or made available to the government COR/project manager and HIARNG-ENV upon request.
X	Prior to project start, Contractor will provide to HIARNG-ENV and the COR/project manager an estimate of the maximum amount of hazardous waste, universal waste, and other regulated waste (e.g., asbestos, lead paint chips, fluorescent lamps, PCB ballasts) expected to be generated per month, and the total amount anticipated to be stored on-site at any given time. Contractor shall also provide name of disposal/recycling facilities and transporters to be used for hazardous waste, including their EPA ID numbers; disposal/recycling facilities and transporters used must be listed on DRMS's lists of Qualified Facilities and Qualified Transporters at http://www.dispositionservices.dla.mil/newenv/hwdisposal.shtml . All waste will be stored in a secured area pending removal for disposal, with signage indicating contact information, and shall be managed, packaged, and transported in accordance with all applicable federal, state, and local regulations. Monthly waste generation reports shall be provided to HIARNG-ENV and the COR/project manager by the 5 th of the month after the end of the month being reported. The reports shall indicate the type of waste and the number of pounds of each type generated in each container each month. (Sample container waste collection log and waste generation report attached).
X	Contractor shall be responsible for all costs for disposal of waste generated from this project and shall provide copies of all waste disposal documentation (including any required lab analyses, waste profiles, and any other supporting documentation) to the HIARNG-ENV and the COR/project manager, along with draft copies of the waste manifests for review prior to waste shipment off-site for disposal. The applicable HIARNG EPA ID Number shall be used on waste manifests, and manifests will only be signed by individuals authorized by HIARNG-ENV.
X	All construction sites are subject to the regulations of 40 CFR 112 <i>Oil Pollution Prevention</i> and are required to prepare a site specific Spill Prevention, Control and Countermeasure (SPCC) plan if storing more than 1320 gallons (G) of POL on site. A copy of the SPCC plan must be submitted to HIARNG-ENV before start of the project and kept readily available on site. If the site is storing less than 1320 G of POL no SPCC plan is required, however, the contractor shall implement the applicable HIARNG SPCC plan.
X	Contractor, in general, shall be responsible for assessing whether the project and/or project activities require environmental permits and are responsible for obtaining, implementing and maintaining all applicable permit requirements.
X	All projects that disturb more than 1 acre of soil, including projects that, considered with other related projects (i.e., are part of a larger common plan of development or sale), cumulatively

	disturb more than 1 acre of soil, are required to obtain an applicable National Pollutant Discharge Elimination System (NPDES) stormwater discharge permit from the Hawaii Department of Health (HDOH) and implement all permit requirements, plans, and inspections. Sites less than 1 acre are required to implement best management practices (BMP's) to prevent contaminated stormwater from leaving the site.
X	Contractors shall be responsible for assessing the need for and obtaining the following permits as applicable: NPDES permits for construction activity, underground injection control well (UIC), oil water separator, grease trap, and individual waste water system. The ENV office shall be copied on all permit correspondence, and shall be provided the original copy of all permits.
X	Contractors are required to install and maintain stormwater Best Management Practices (BMPs) and protective measures (regardless of project size or scope) to prevent the pollution of stormwater to the maximum extent practicable (MEP).
X	Contractor shall be responsible for complying with all existing and applicable HIARNG environmental permits, e.g., National Pollutant Discharge Elimination System (NPDES) permits, UIC permits, Industrial Wastewater Discharge permits (IWDPs), Individual Wastewater System (IWS) permits, etc.
X	Contractor shall post emergency contact sign indicating the name and phone number for the government COR/project manager, the contractor emergency contact, police/fire department 911, and HIARNG ENV 672-1013. (Sample sign attached). Contractor shall report spills immediately to the COR and HIARNG-ENV and complete the HIARNG Spill Incident Report Form as required. Contractor shall immediately clean up all spills IAW federal and state guidelines and to the satisfaction of HIARNG-ENV. Contractor shall maintain adequate spill supplies commensurate with the potential for spills, and will contract out spill cleanup beyond their capabilities. Contractor shall accomplish all regulatory verbal and written notifications to the State Emergency Response Commission, Local Emergency Planning Committee (LEPC), National Response Center (NRC), Environmental Protection Agency (EPA), as applicable, and provide HIARNG-ENV copies of all spill reports submitted.
X	Send to HIARNG-ENV the data for non-hazardous recycled/diverted waste (i.e. waste that does not go into the landfill or H-POWER) and non-hazardous disposed waste for all construction projects. Data can be provided by any means (e.g. receipt copies, Excel table, email message) Data should include: <ul style="list-style-type: none"> Recycled/Diverted waste <ul style="list-style-type: none"> -type of material -net weight -recycle facility (e.g. Schnitzer, Island Recycling, Refrigerant Recycling) -ticket number (if available) -cost/revenue (if applicable) Disposed waste <ul style="list-style-type: none"> -net weight -disposal facility (e.g. PVT, Schnitzer) -ticket number (if available) -cost (if applicable)

HIARNG Spill Incident Report Form

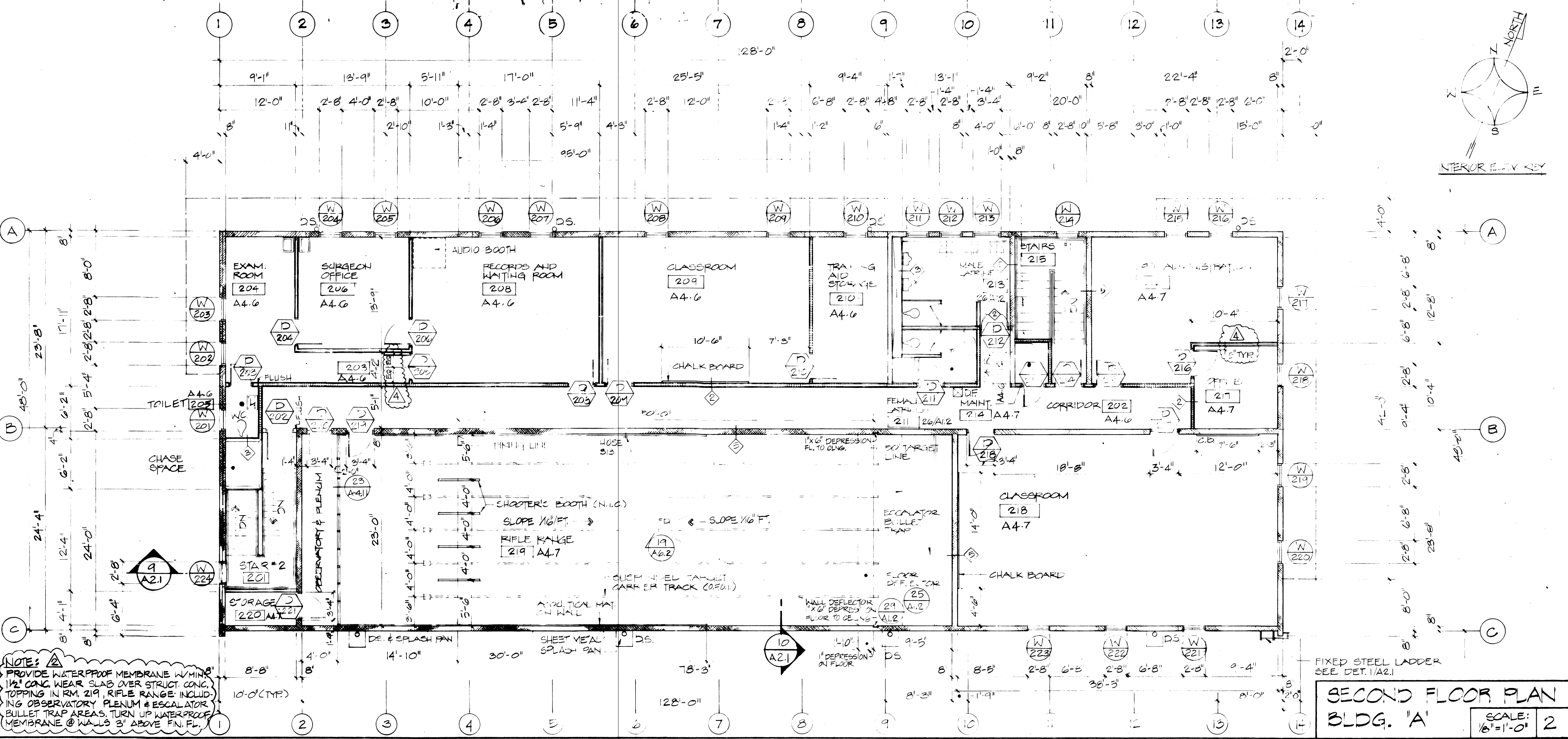
REPORT SPILLS IMMEDIATELY TO HIARNG-ENV AT 672-1013.
 Fax this form to 672-1262 or e-mail ng.hi.hiarng.list.nghi-env-comp@mail.mil within 72 hours of the spill.

1	LOCATION OF SPILL (Facility/Address/Bldg):	DATE & TIME OF SPILL:	
2	CALLER NAME & PHONE NUMBER:	OSC NAME & PHONE NUMBER:	
3	ORGANIZATION REPORTING:		
4	DATE AND TIME OF DISCOVERY:	DURATION OF THE SPILL:	
5	TIME & DATE HIARNG ENV NOTIFIED (672-1013):	PERSON NOTIFIED:	
6	SUBSTANCE SPILLED (<i>Attach SDS</i>):	AMOUNT SPILLED:	SIZE OF AREA IMPACTED:
7	CAUSE AND SOURCE OF THE SPILL:		
8	EXTENT AND SEVERITY OF SPILL: Potential Dangers: <input type="checkbox"/> Fire <input type="checkbox"/> Explosion <input type="checkbox"/> Toxic Fumes/Fluid <input type="checkbox"/> Evacuation Needed <input type="checkbox"/> Damage or Injuries (<i>Specify</i>): Media into Which the Release Occurred or is Likely to Occur (Check all applicable): <input type="checkbox"/> Soil <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> UIC <input type="checkbox"/> Storm Drain <input type="checkbox"/> Swale <input type="checkbox"/> Sewer <input type="checkbox"/> Stream <input type="checkbox"/> Other (<i>Specify</i>): Raining? <input type="checkbox"/> No <input type="checkbox"/> Yes Raining Imminent? <input type="checkbox"/> No <input type="checkbox"/> Yes Direction of Flow:		
9	RESPONSE ACTIONS TAKEN TO STOP, REMOVE, AND MITIGATE EFFECTS OF THE SPILL:		
10	ADDITIONAL ASSISTANCE REQUIRED? <input type="checkbox"/> No <input type="checkbox"/> Yes (<i>Specify</i>):		
11	OTHER HIARNG OR EXTERNAL AGENCIES NOTIFIED (<i>Agency, Individual, Date, Time, and Incident Number Assigned by Agency</i>): <input type="checkbox"/> Fire Dept. <input type="checkbox"/> Ambulance <input type="checkbox"/> Other (<i>Specify</i>):		
12	PREVENTIVE ACTIONS TO BE TAKEN: (<i>NOTE: This incident is required to be covered in the next unit/activity spill training.</i>)		
13	SUBMITTED BY (<i>Name, Title, Phone</i>)		

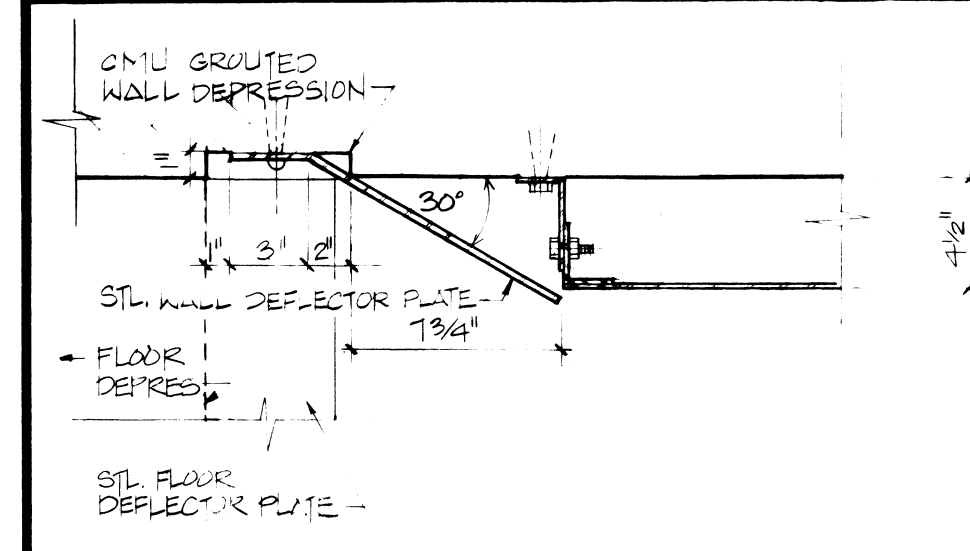
For Environmental Office Use Only.

1	REPORTABLE? <input type="checkbox"/> No <input type="checkbox"/> Yes	REPORTABLE QTY:	Samples Taken? <input type="checkbox"/> No <input type="checkbox"/> Yes
2	VERBAL NOTIFICATIONS MADE (<i>Indicate Agency, Individual, Date, and Time Notified, and any Incident Number Assigned</i>) <input type="checkbox"/> SERC (HEER): <input type="checkbox"/> LEPC: <input type="checkbox"/> NRC (800) 424-8801: <input type="checkbox"/> Other (<i>Specify</i>): DATE WRITTEN NOTIFICATIONS MADE:		
3	CORRECTIVE ACTIONS TAKEN/ RECOMMENDED TO PRECLUDE RECURRENCE:		

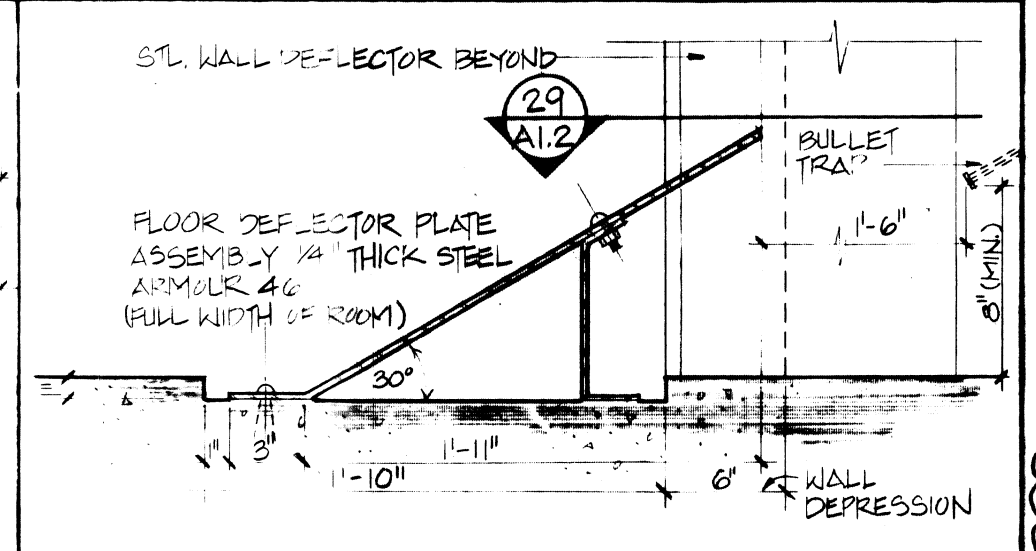
PARTIAL FLOOR PLAN - RM 211, 212 & 213
MALE & FEMALE LATRINE
 SCALE: 1/4" = 1'-0" 26



SECOND FLOOR PLAN
BLDG. 'A'
 SCALE: 1/8" = 1'-0" 2

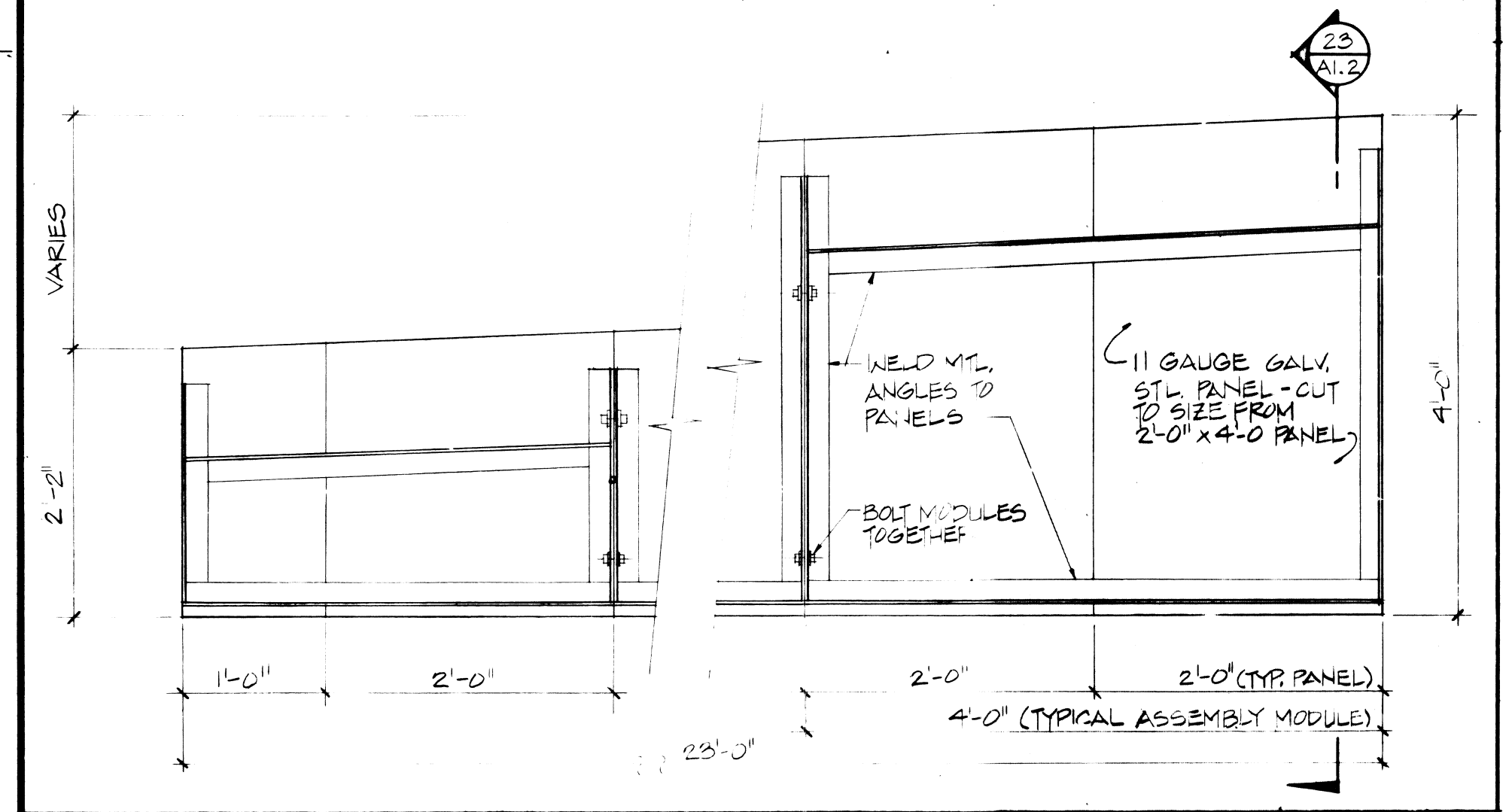


WALL DEFLECTOR
 SCALE: N.T.S. 29

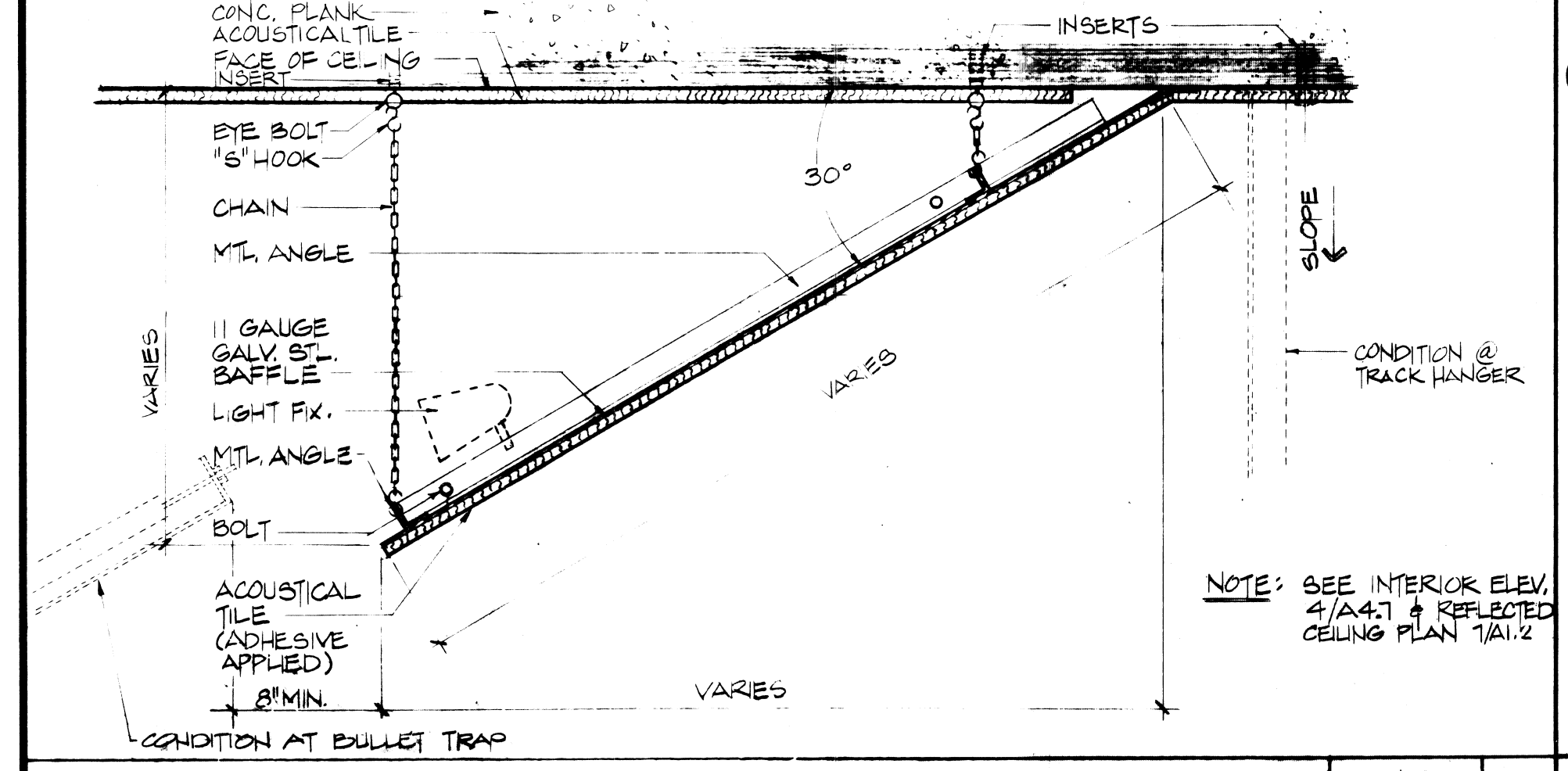


FLOOR DEFLECTOR
 SCALE: N.T.S. 25

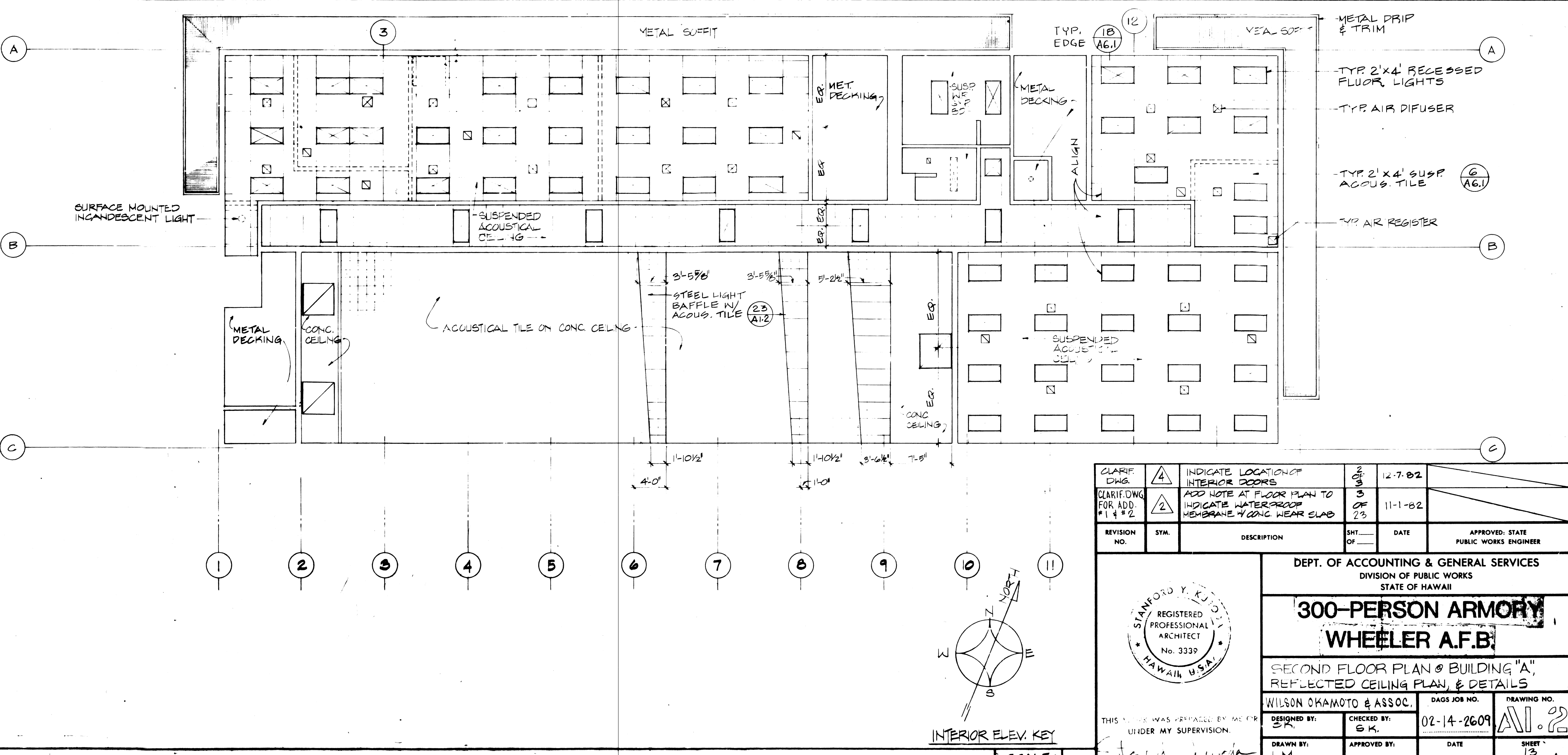
NOTE: PROVIDE WATERPROOF MEMBRANE WITH 1/2" CONC. WEAR SLAB OVER STRUCT. CONC. TOPPING IN RM 219 RIFLE RANGE INCLUDING OBSERVATORY PLENUM & ESCALATOR BULLET TRAP AREAS. TURN UP WATERPROOF MEMBRANE @ WALLS 3' ABOVE FIN. FL.



LIGHT BAFFLE (PLAN)
 SCALE: 1/2" = 1'-0" 24



LIGHT BAFFLE (SECTION)
 SCALE: 1/2" = 1'-0" 23



REFLECTED CEILING PLAN - SECOND FLOOR BUILDING 'A'
 SCALE: 1/8" = 1'-0" 7

CLARIF. DWG. NO. 1	INDICATE LOCATION OF INTERIOR DOORS	2/3	12-7-82	
CLARIF. DWG. FOR ADD. #1 & #2	ADD NOTE AT FLOOR PLAN TO INDICATE WATERPROOF MEMBRANE W/ CONC. WEAR SLAB	3/3	11-1-82	
REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE
				APPROVED: STATE PUBLIC WORKS ENGINEER

DEPT. OF ACCOUNTING & GENERAL SERVICES
 DIVISION OF PUBLIC WORKS
 STATE OF HAWAII

300-PERSON ARMOY
WHEELER A.F.B.

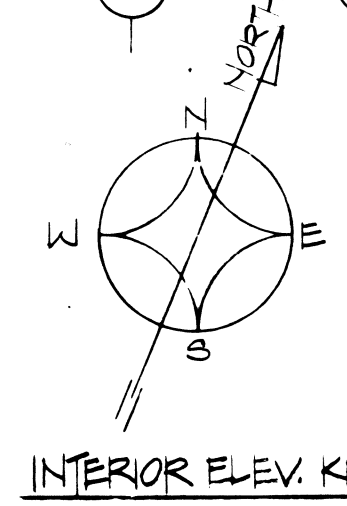
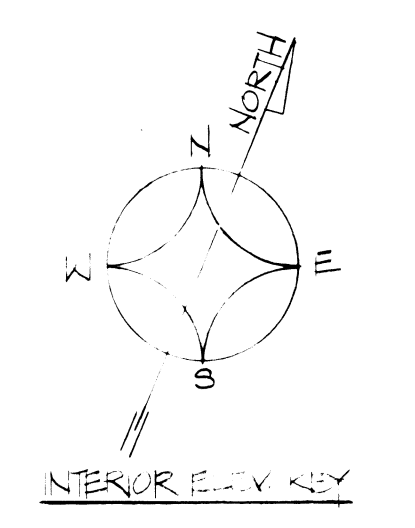
SECOND FLOOR PLAN & BUILDING 'A'
 REFLECTED CEILING PLAN, & DETAILS

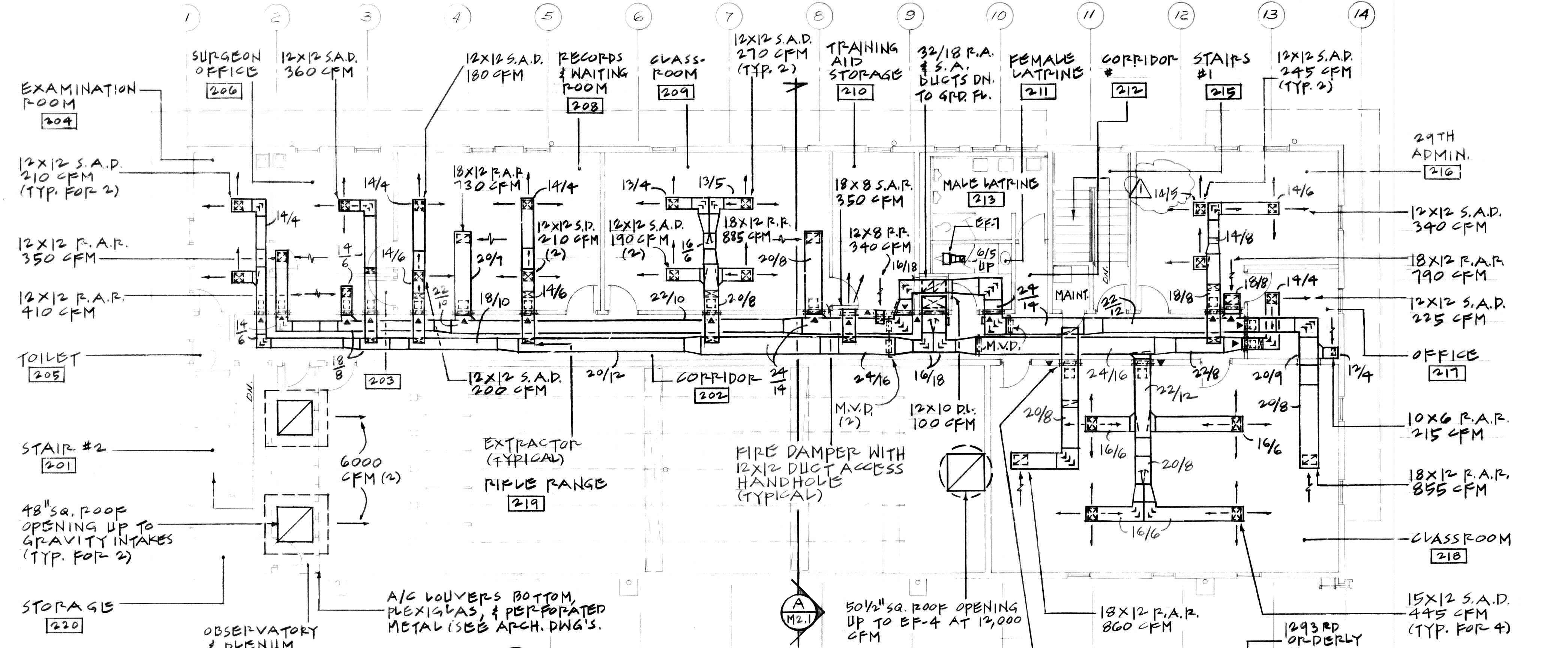
WILSON OHAMOTO & ASSOC.
 DESIGNED BY: S.R.
 CHECKED BY: S.K.
 DRAWN BY: L.M.
 APPROVED BY: S.K.
 DATE: 02-14-2609
 SCALE: AS NOTED

DAGS JOB NO. 02-14-2609
 DRAWING NO. A1.2
 SHEET 13 OF 75 SHEETS

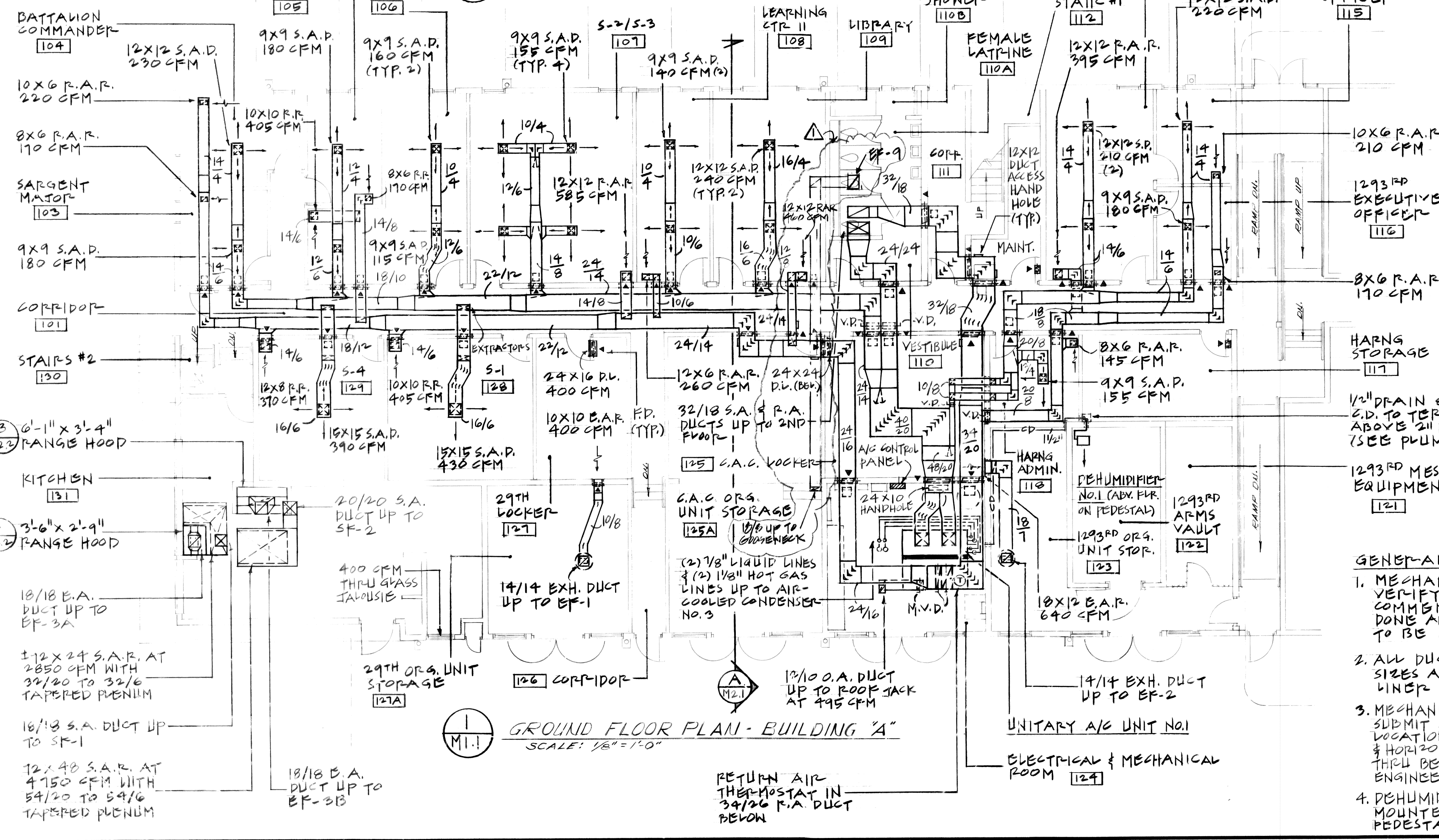
THIS DRAWING WAS PREPARED BY ME OR UNDER MY SUPERVISION.

INTERIOR ELEV. KEY





2 SECOND FLOOR PLAN - BUILDING "A"
SCALE: 1/8" = 1'-0"



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

SYMBOLS	ABBREVIATIONS	DESCRIPTIONS
— CD —	C.D.	CONDENSATE DRAIN
⊠	E.A.R. OR P.A.R.	EXHAUST AIR OR RETURN AIR REGISTER
⊠		EXTRACTORS
⊠	F.D.	FIRE DAMPER
⊠		FLEXIBLE CONNECTION
⊠	M.V.D.	MANUAL VOLUME DAMPER (OPPOSED BLADE)
⊠	O.A. OR P.A.	OUTSIDE AIR OR RETURN AIR DUCTS UP OR DOWN
⊠		SIDEWALL RETURN REGISTER
⊠		SIDEWALL SUPPLY REGISTER
⊠	S.D.	SPLITTER DAMPER
⊠	S.A.D.	SUPPLY AIR DIFFUSER
⊠	S.A.	SUPPLY AIR DUCTS UP AND DOWN
⊠	T.V.	TURNING VANES
⊠		WALL MOUNTED THERMOSTAT
⊠	A.F.F.	ABOVE FINISH FLOOR
CFM	CFM	CUBIC FEET PER MINUTE
D.G.	D.G.	DOOR GRILLE
D.L.	D.L.	DOOR LOUVER
DB	DB	DRY BULB
E.A.	E.A.	ENTERING AIR
E.F.	E.F.	EXHAUST FAN
E.S.P.	E.S.P.	EXTERNAL STATIC PRESSURE
FN	FN	FINS
H.P.	H.P.	HORSEPOWER
MIN. DEFL.	MIN. DEFL.	MINIMUM DEFLECTION
MBH	MBH	THOUSAND BRITISH THERMAL UNIT PER HOUR
RPM	RPM	REVOLUTION PER MINUTE
SENS.	SENS.	SENSIBLE HEAT
SPR.	SPR.	SPRING
WB	WB	WET BULB
T.R.	T.R.	TRANSFER REGISTER
F.S.	F.S.	FLOOR SINK

GENERAL NOTES:

5. FIRE DAMPERS IN DUCTS SHALL BE CONSTRUCTED & TESTED IN ACCORDANCE WITH UL SAFETY STANDARD 555, 1/2 HR. FIRE PROTECTION RATING, 160°F FUSIBLE LINK, INCLUDE UL LABEL, & FOR VERTICAL OR HORIZONTAL INSTALLATION. PUSKIN TYPE JDD2 STYLE B, AIR BALANCE INC. MODEL NO. 119 BULK, OR APPROVED EQUAL.

6. FIRE DAMPERS BEHIND DOOR LOUVERS SHALL BE SAME AS F.D. IN DUCTS EXCEPT THIN-LINE TYPE PUSKIN TYPE JDDT STYLE A, AIR BALANCE INC. MODEL NO. 119 TYPE F, OR APPROVED EQUAL.

7. ALL FIRE DAMPERS SHALL BE INSTALLED IN 10 GAUGE SHT. MET. SLEEVES.

8. MAINT. & RM. 117 DOORS SHALL BE PROVIDED WITH (2) FIRE DAMPERS.

9. F.D.'S IN R.A. DUCTS AFTER P.A.R.'S WITH 10 GA. SHT. MET. PCTS TO FIRE WALL FOR RMS. 101, 108, & 109.

GENERAL NOTES:

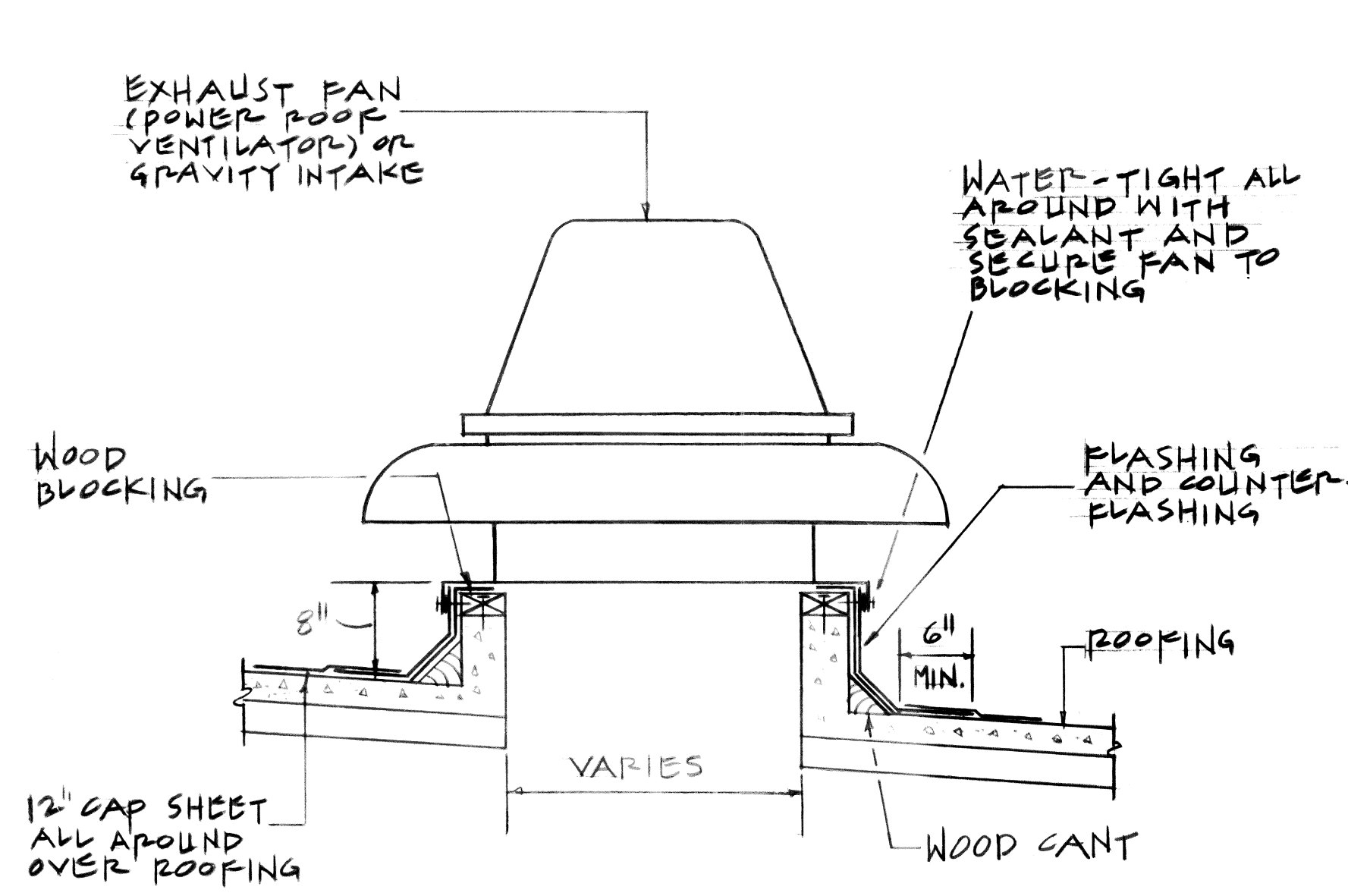
1. MECHANICAL CONTRACTOR TO VERIFY ALL CONDITIONS PRIOR TO COMMENCING OF ALL WORK TO BE DONE AND COORDINATE ALL WORK TO BE DONE WITH OTHER TRADES.

2. ALL DUCT DIMENSIONS ARE NET SIZES AND DO NOT INCLUDE 1" DUCT LINER AND DUCT REINFORCEMENT.

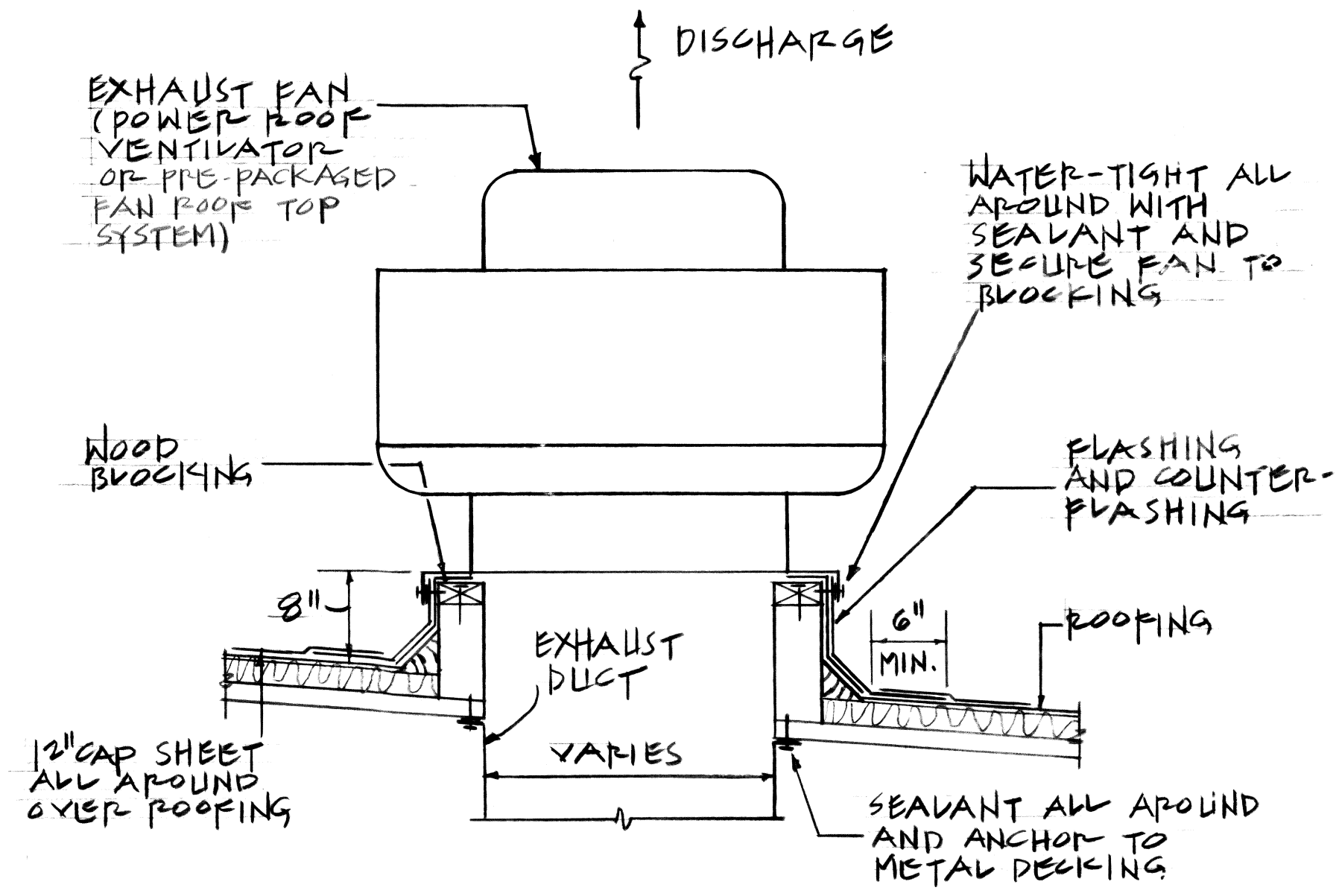
3. MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING LOCATIONS BY DIMENSIONS VERTICALLY & HORIZONTALLY OF ALL PENETRATIONS THRU BEARING WALLS TO STRUCTURAL ENGINEER.

4. DEHUMIDIFIER NO.1 & NO.2 TO BE MOUNTED ON GALVANIZED STEEL PEDESTAL ± 21" A.F.F.

CLARIF. DWG. FOR ADD. #1 & #2	DELETE GENERAL NOTES # 6 & #8.	18	11-1-92		
ADD #1	ADD #1 & #2	23	8-10-92		
REVISION NO.	SYM.	DESCRIPTION	SHT.	DATE	APPROVED STATE PUBLIC WORKS ENGINEER
DEPT. OF ACCOUNTING & GENERAL SERVICES DIVISION OF PUBLIC WORKS STATE OF HAWAII					
300-PERSON ARMORY WHEELER A.F.B.					
BUILDING "A" - A.C. & VENT. GRP. & 2ND FLR. PLANS, LEGEND, AND NOTES					
WILSON OKAMOTO & ASSOC.		DAOS JOB NO.	DRAWING NO.		
DESIGNED BY: P.T.	CHECKED BY: G.C.	02-14-2609	MI-1		
DRAWN BY: P.T.	APPROVED BY:	DATE	SHEET		
SCALE: AS NOTED		3 2 2	OF 75 SHTS		

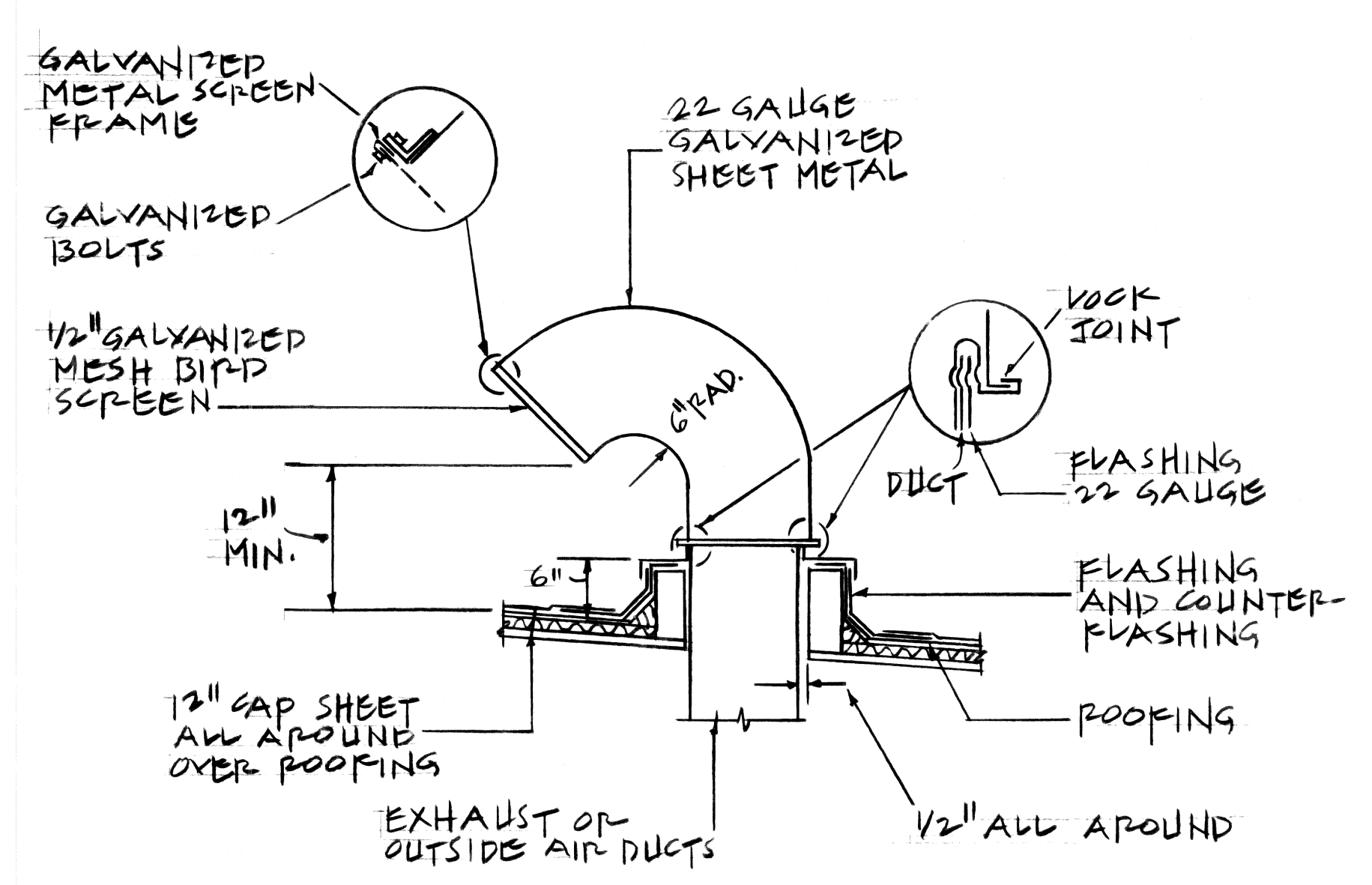


2 FAN CURBING DETAIL
SCALE: NONE



3 FAN CURBING DETAIL
SCALE: NONE

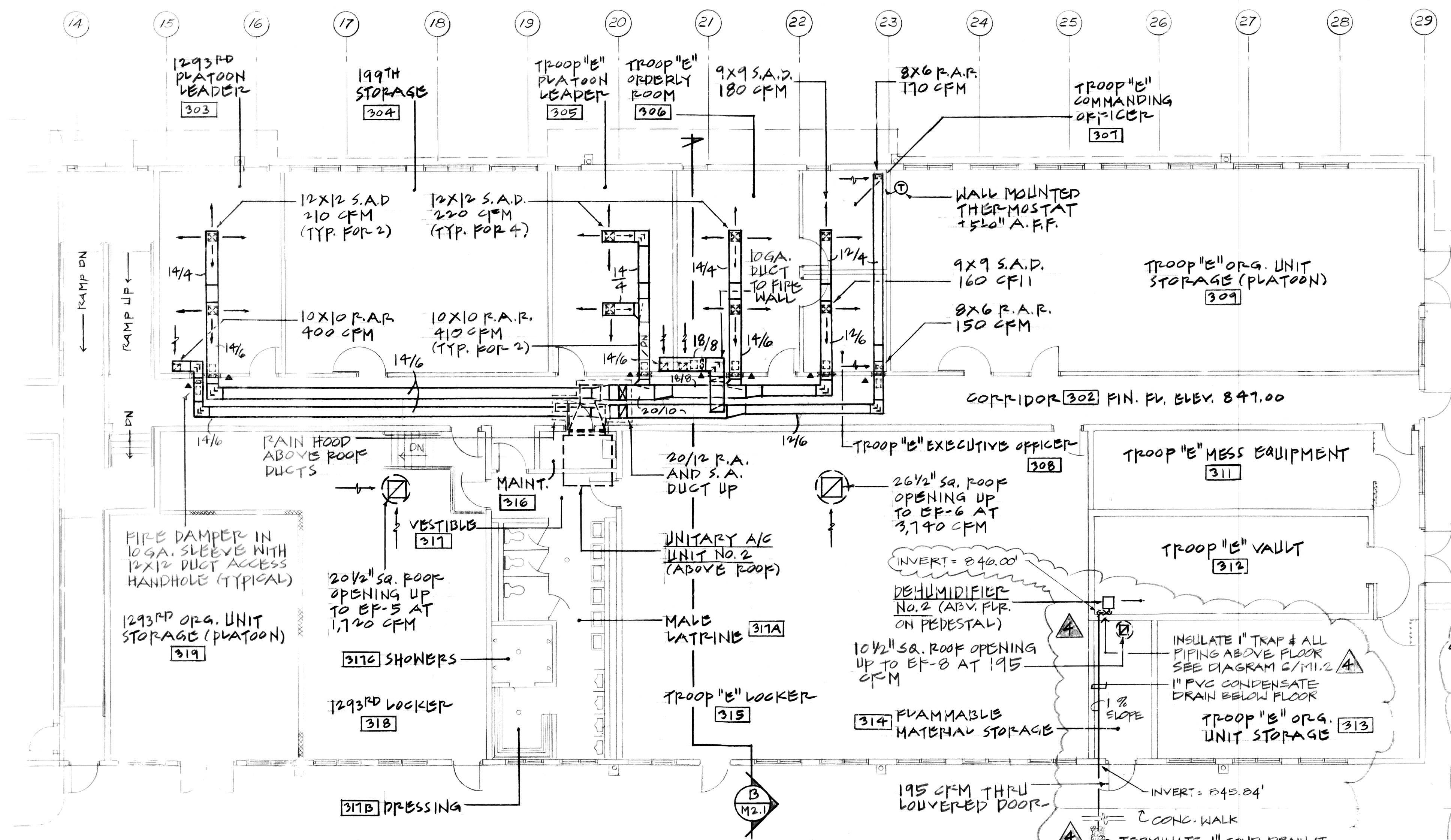
NOTES:
1. PRE-PACKAGED FAN ROOF TOP SYSTEMS HAVE EXHAUST AND SUPPLY AIR-DUCTS.



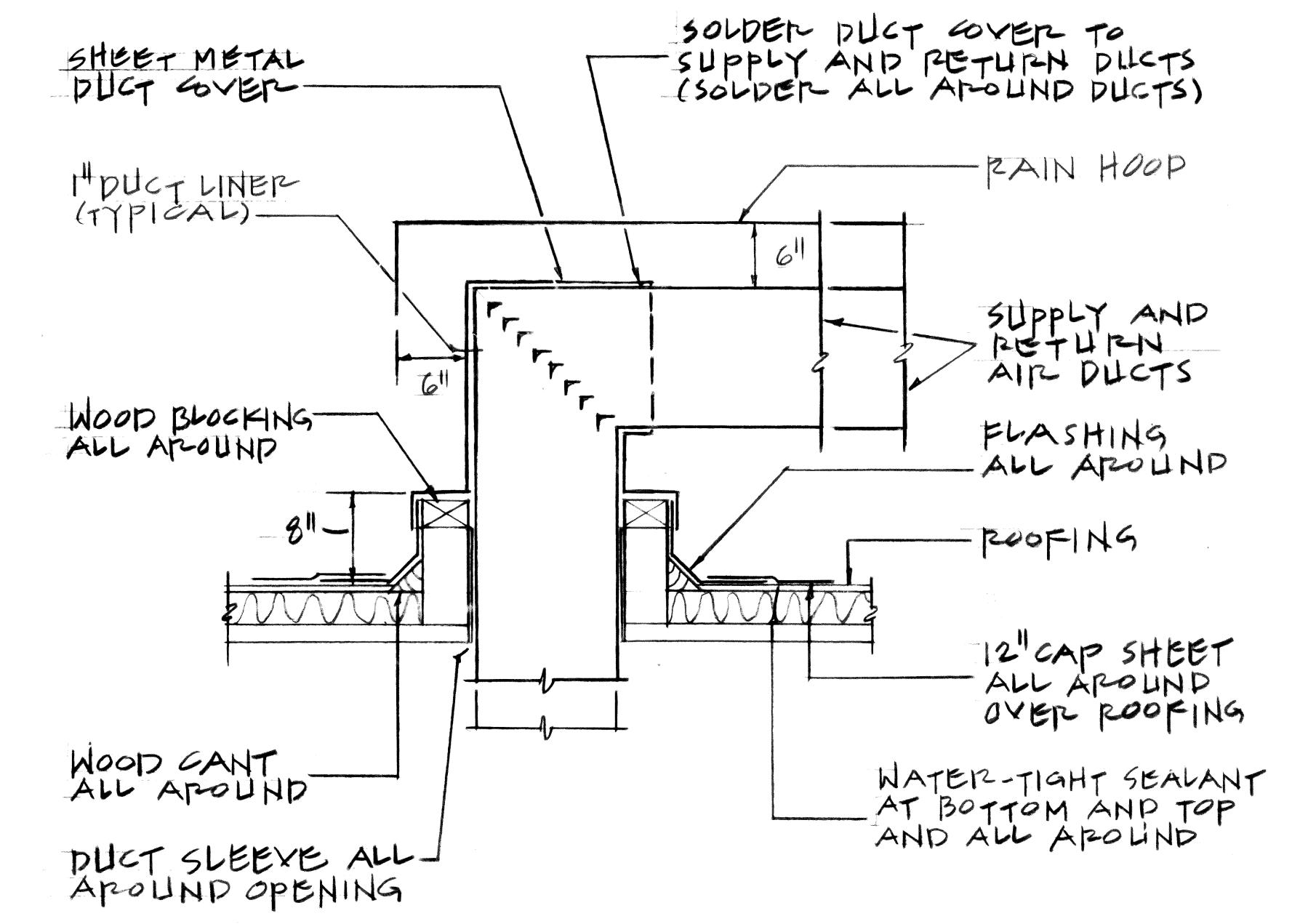
4 ROOF JACK DETAIL
SCALE: NONE

NOTES: (ROOF JACK)
1. USE GALVANIZED SH. METAL FOR DUCTWORK - (26 GAUGE) FOR MAX. SIDE DUCT SIZE UP TO 12" AND (24 GAUGE) FOR MAXIMUM SIDE DUCT SIZE 13" TO 30".

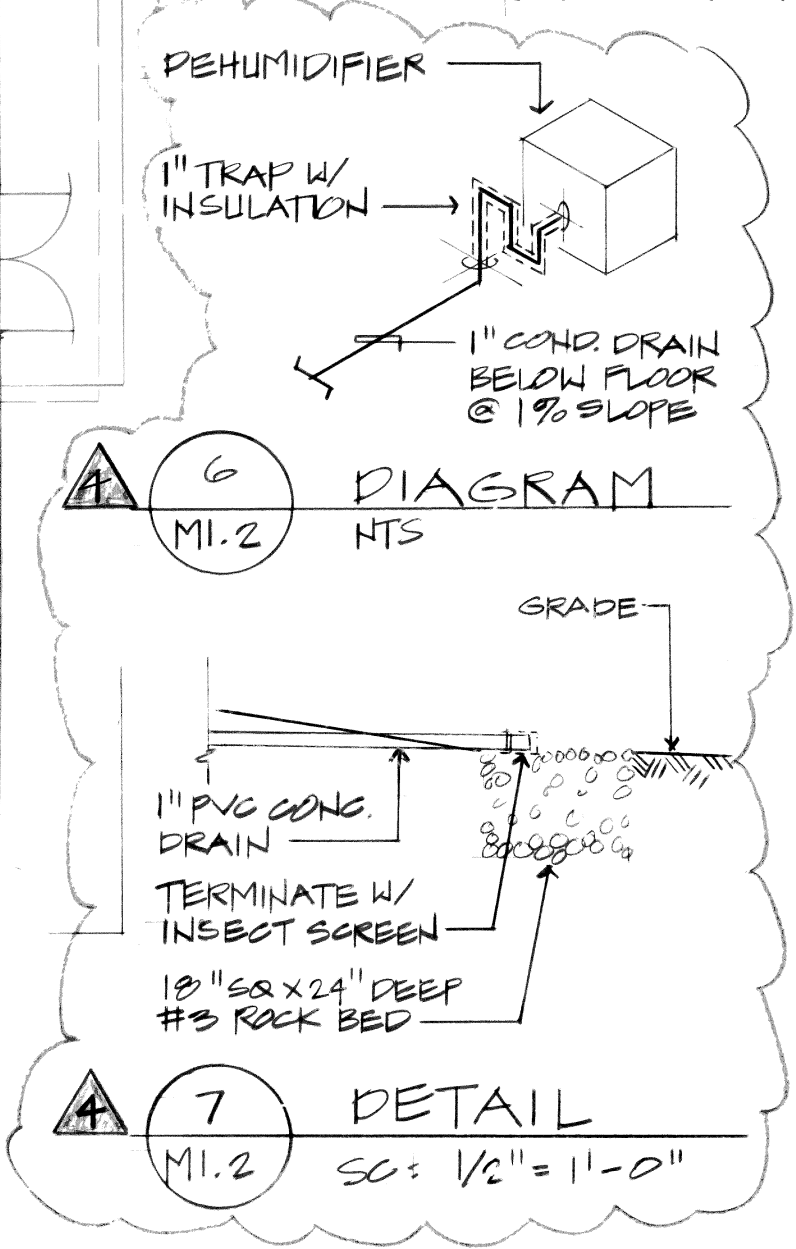
GENERAL NOTES:
1. FOR FAN CURBING AND ROOF JACK CURBING CONSTRUCTION, SEE ARCHITECTURAL DRAWINGS.
2. WATER-TIGHT SEALANT AT BOTTOM & TOP AND ALL AROUND 12" CAP SHEETS.



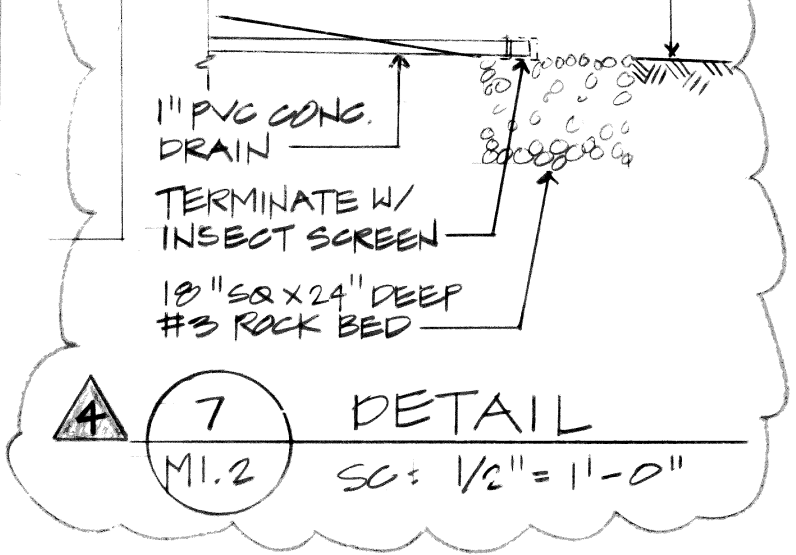
1 GROUND FLOOR PLAN - BUILDING 'B'
SCALE: 1/8" = 1'-0"



5 DUCT CURBING DETAIL
SCALE: NONE

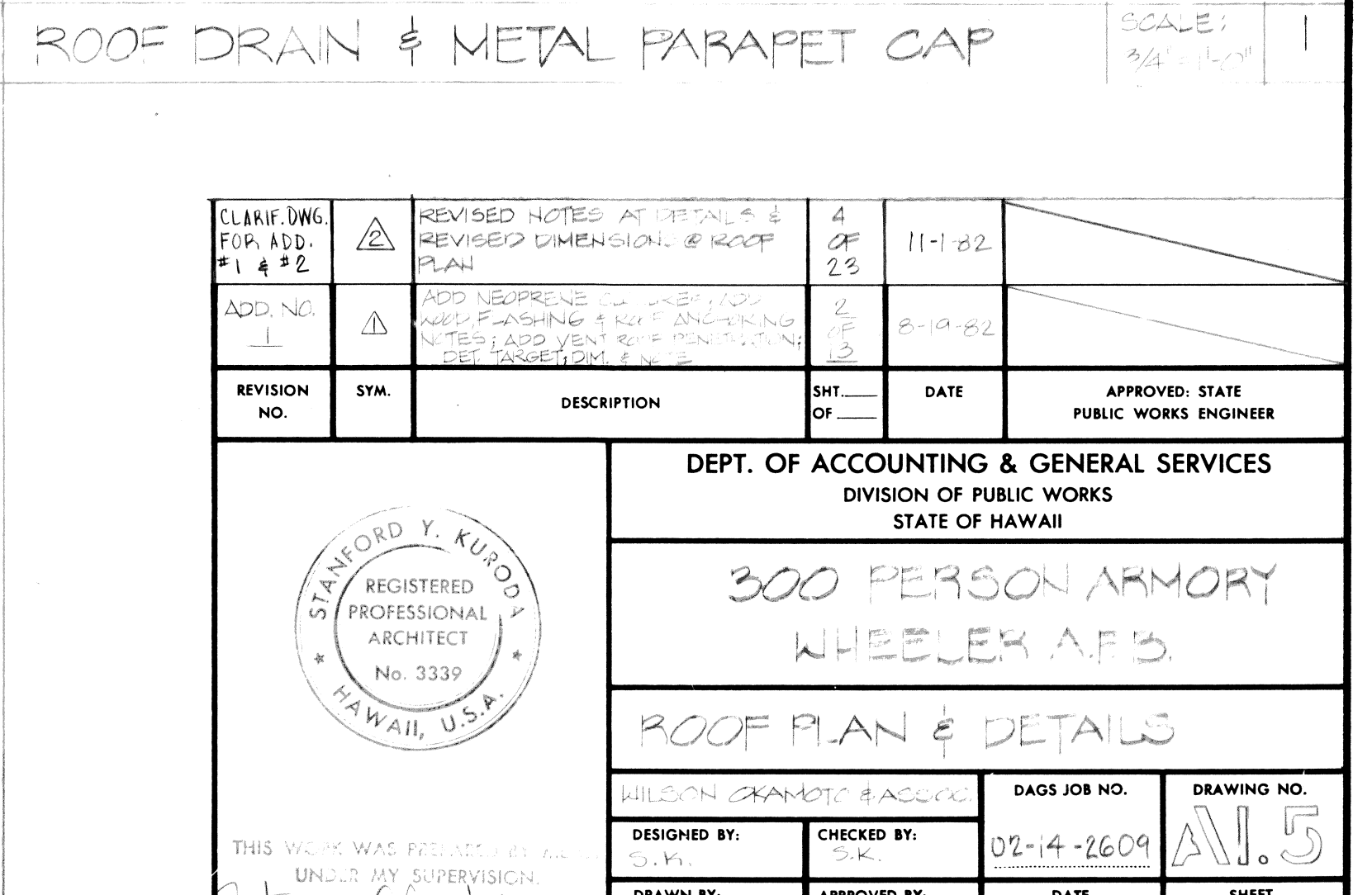
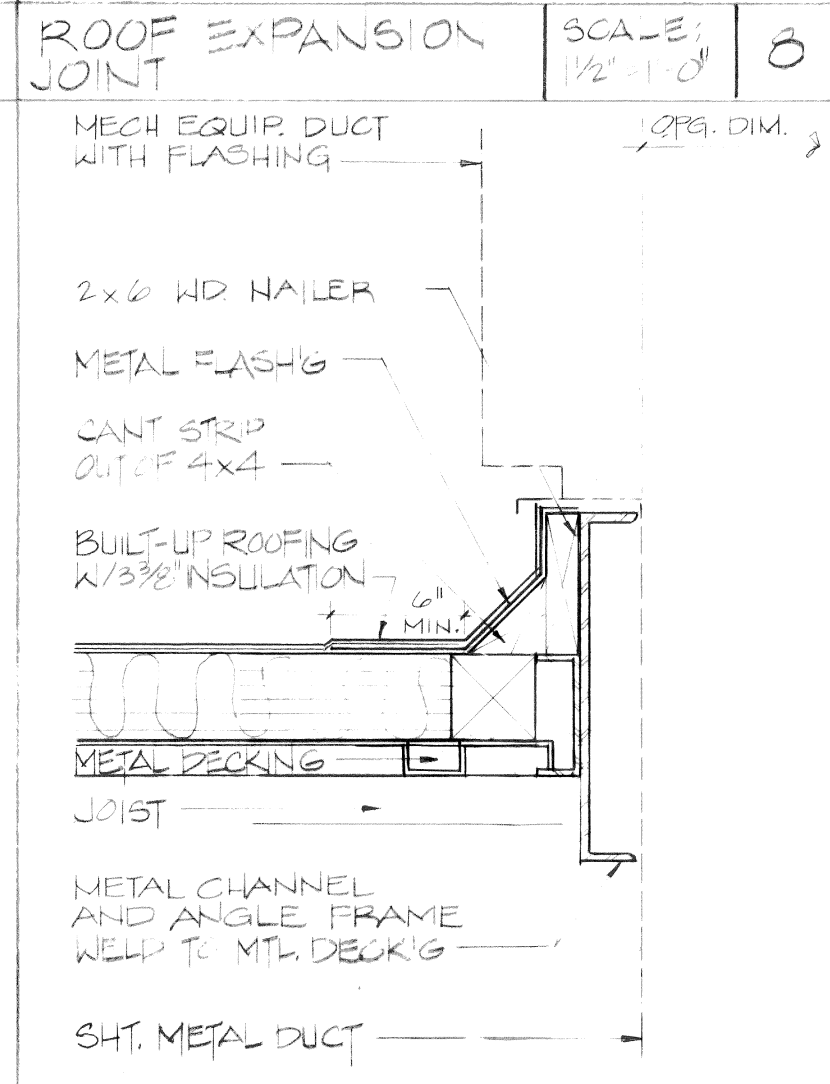
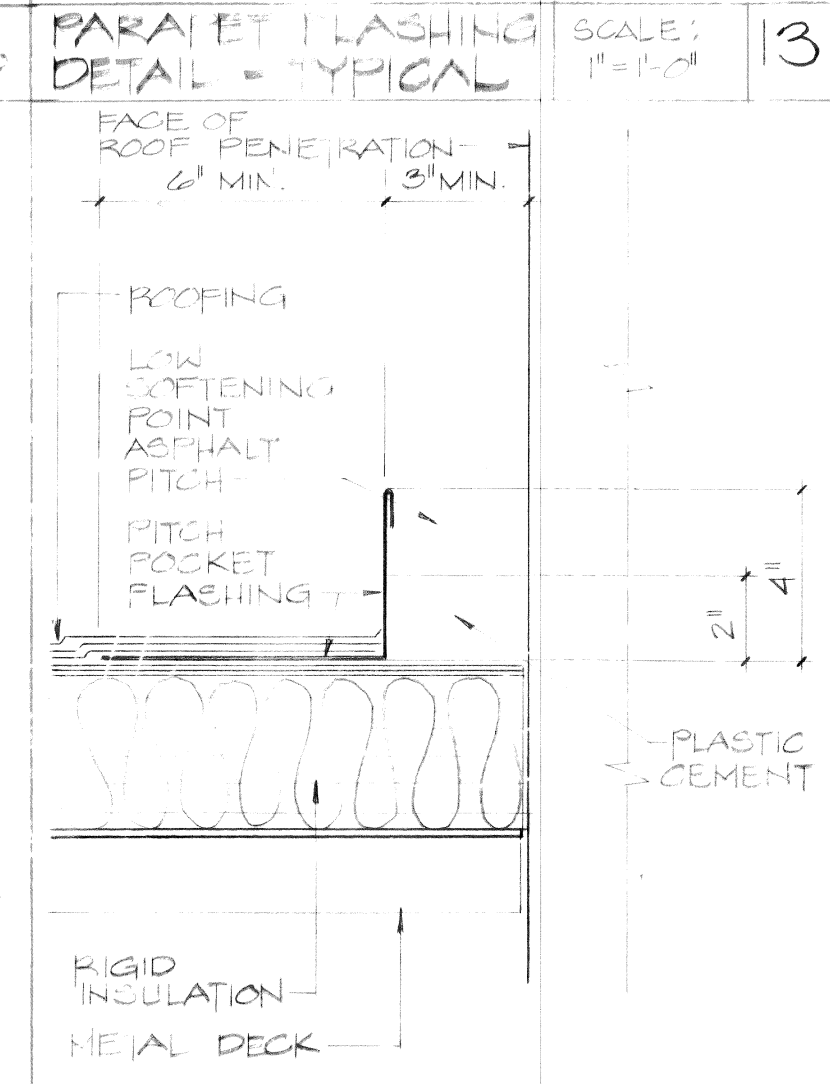
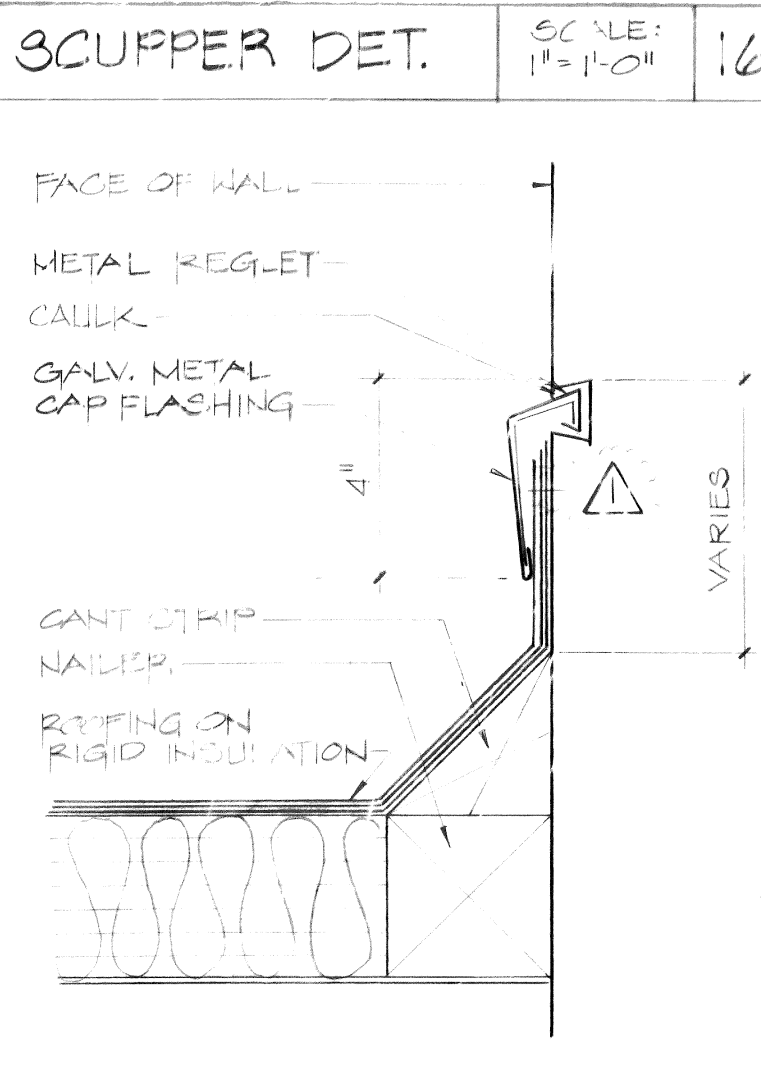
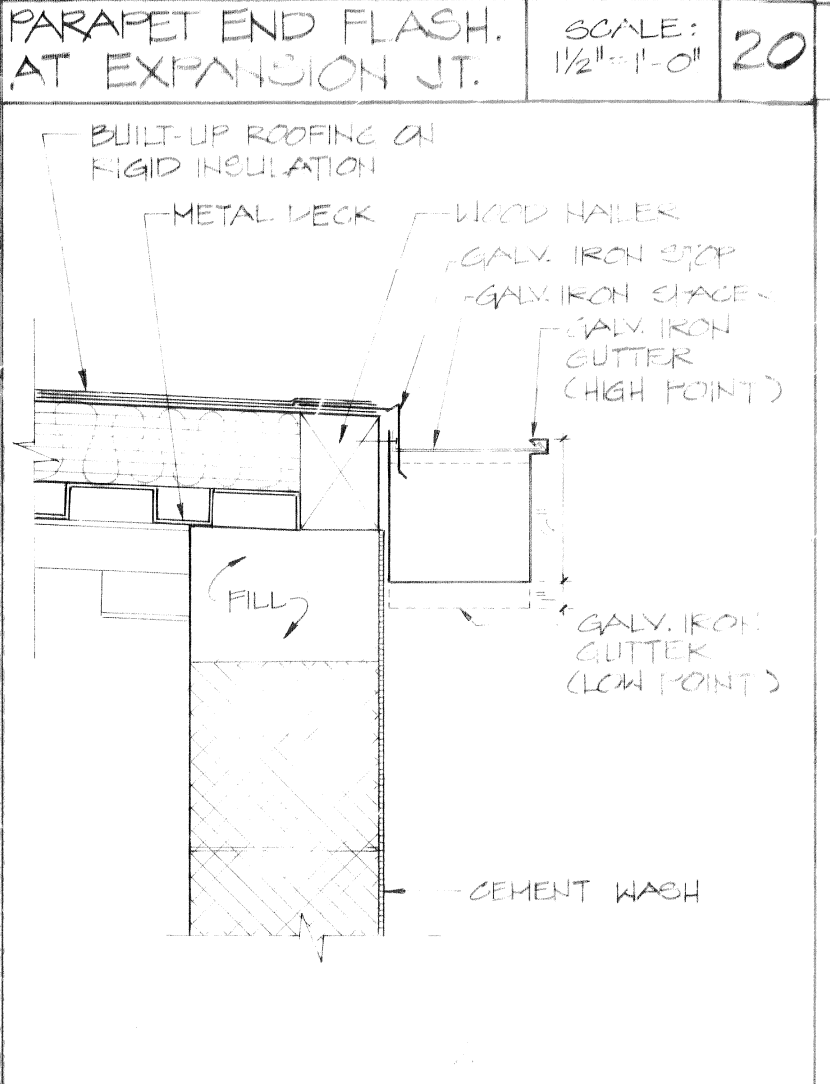
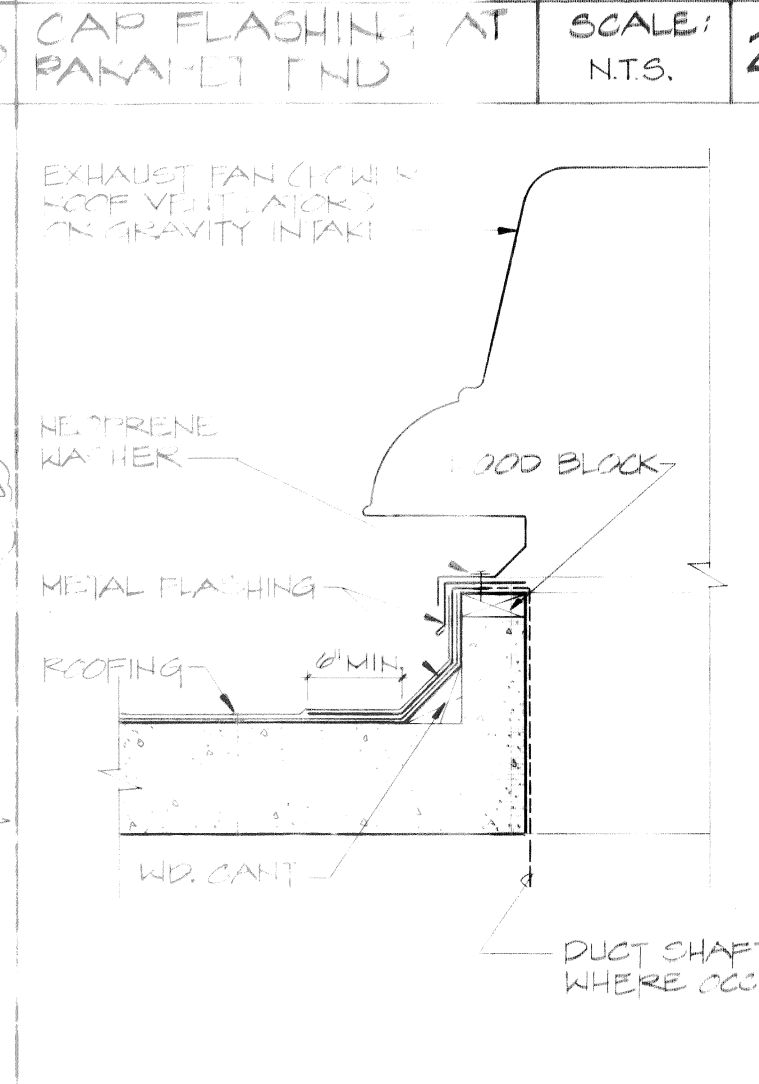
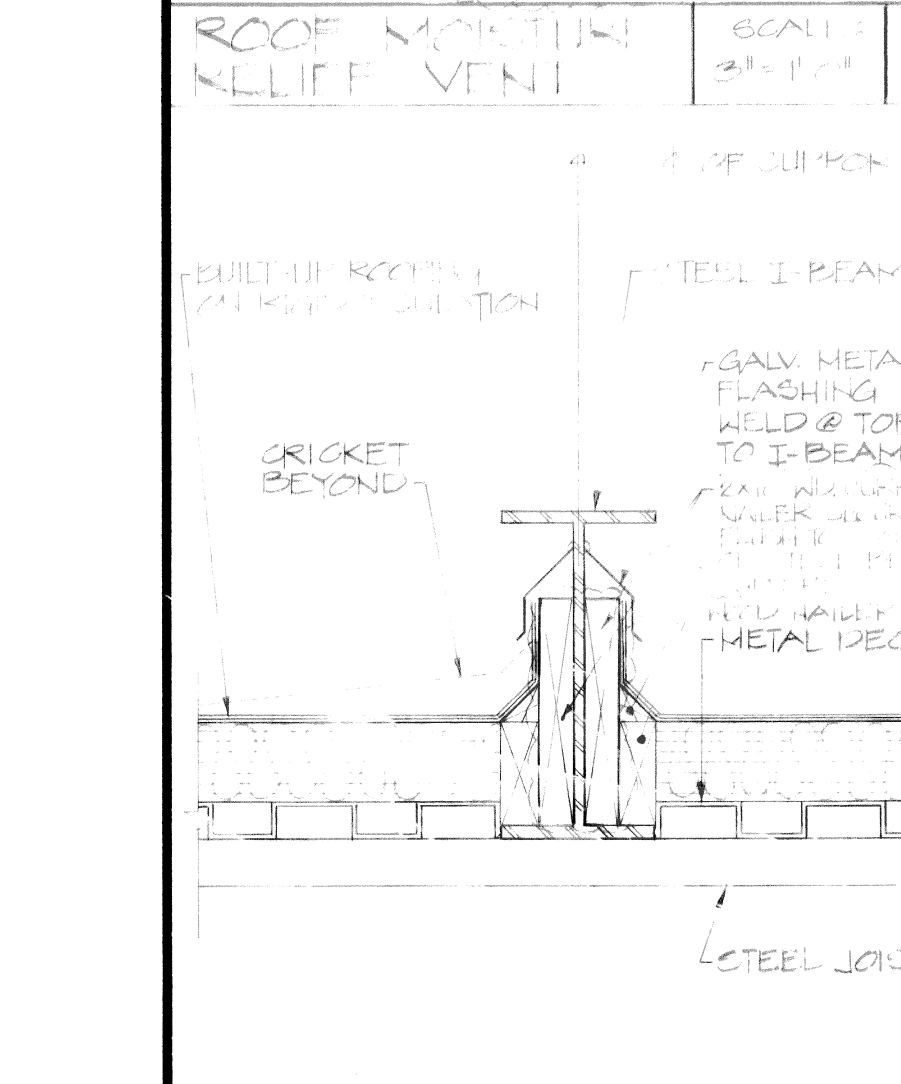
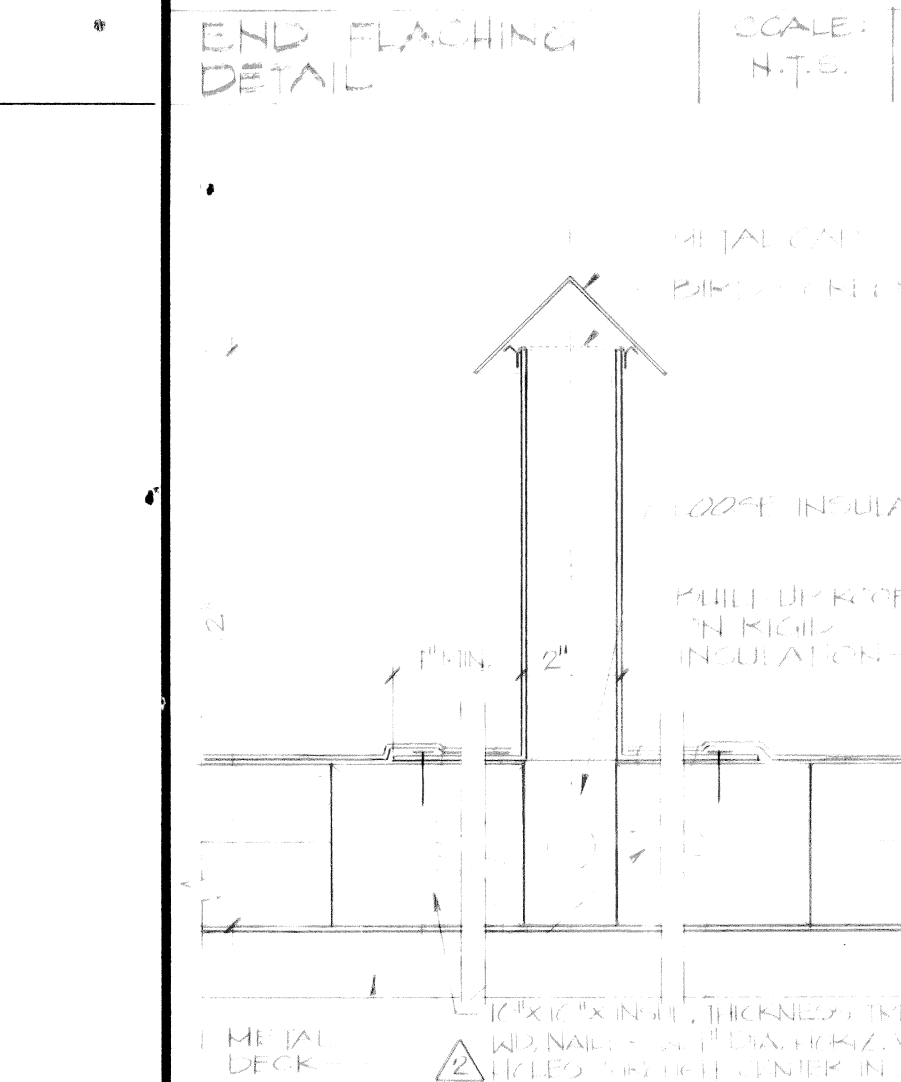
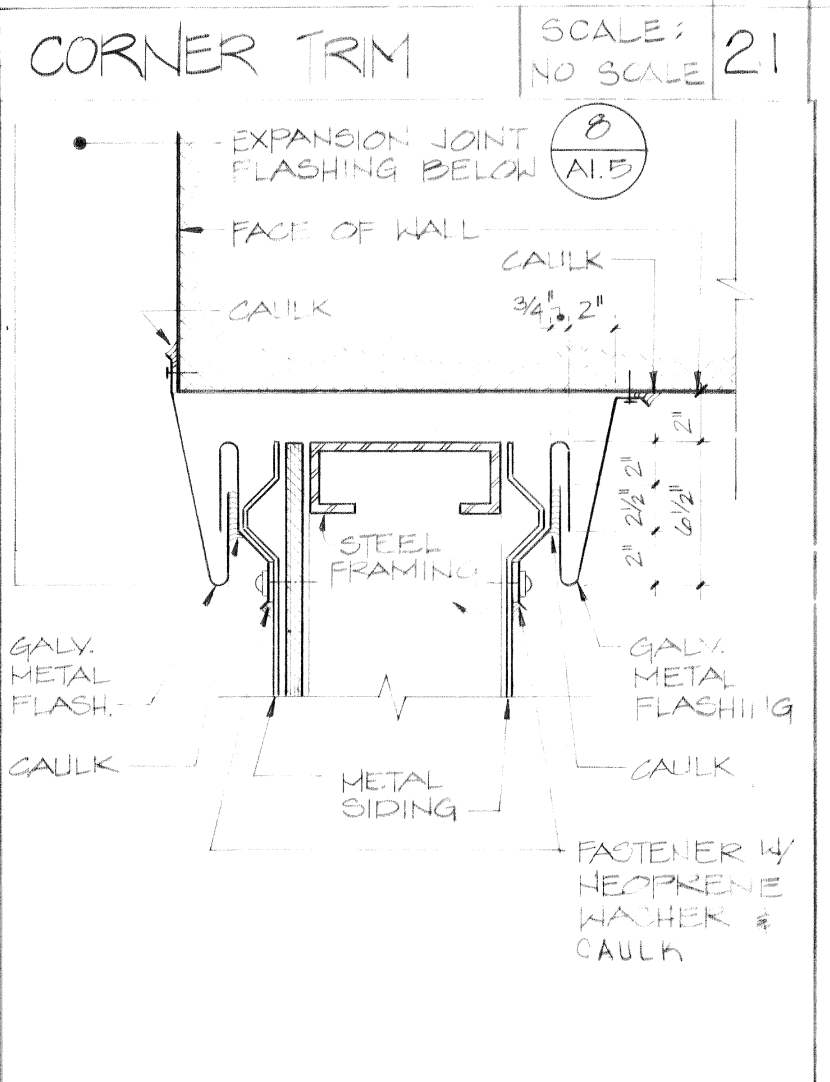
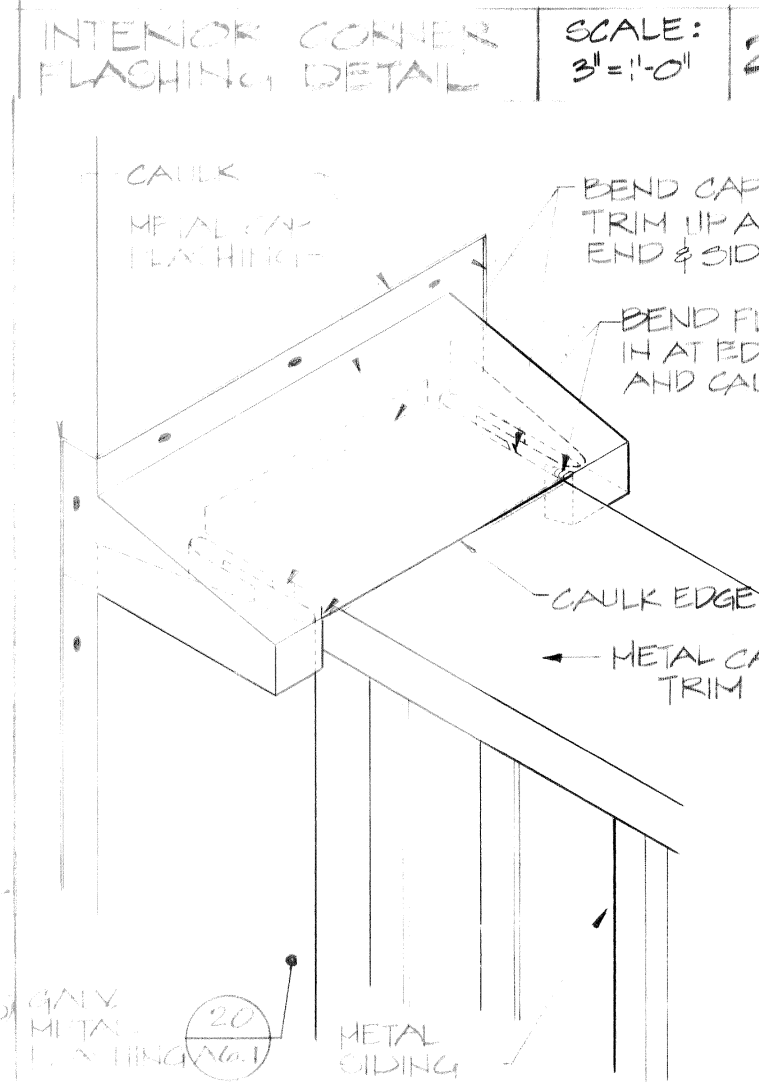
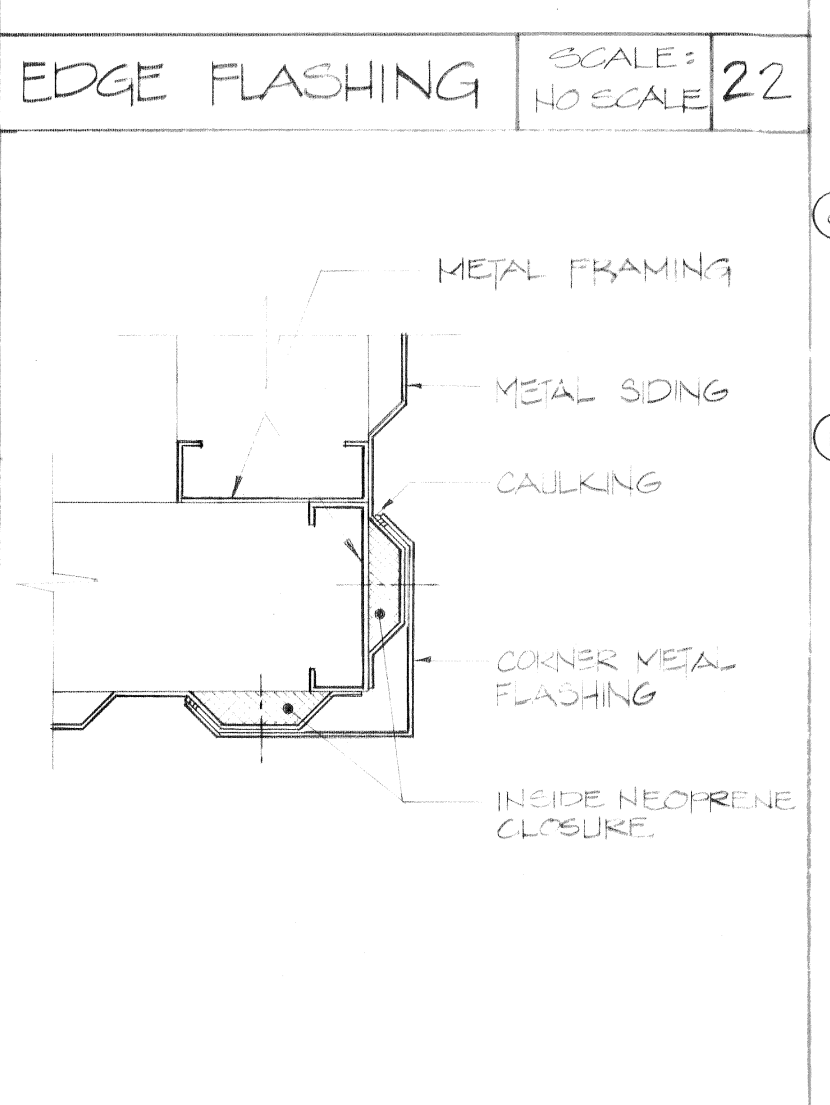
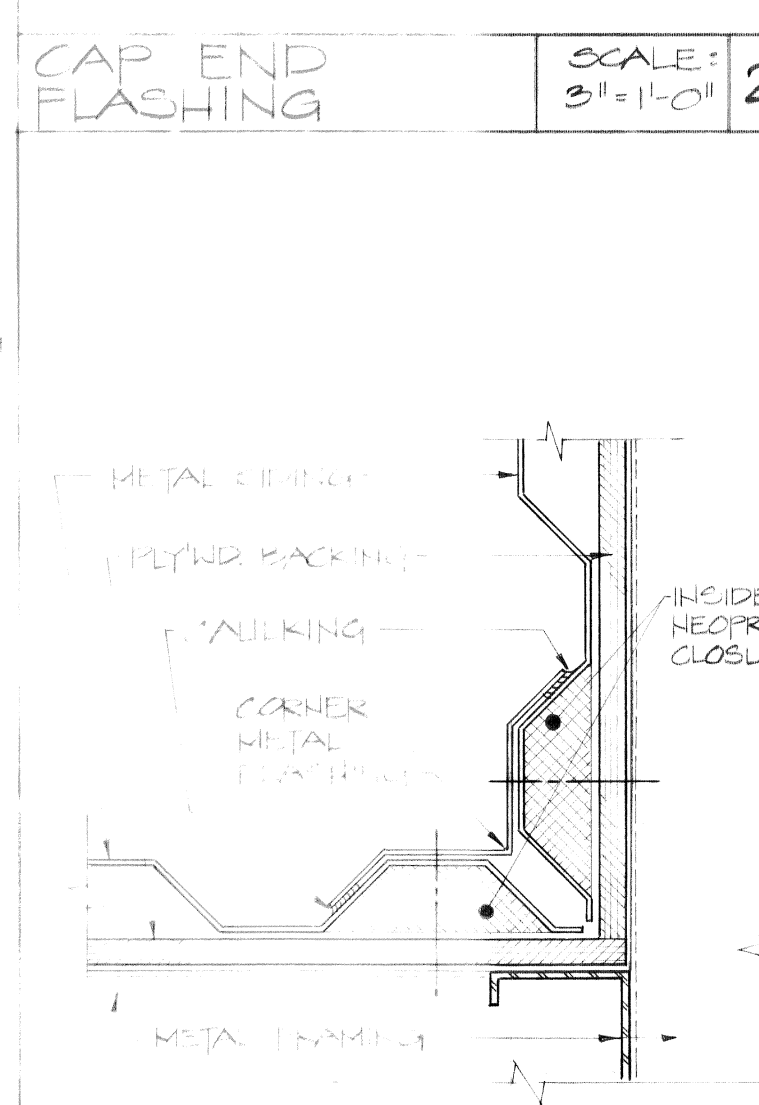
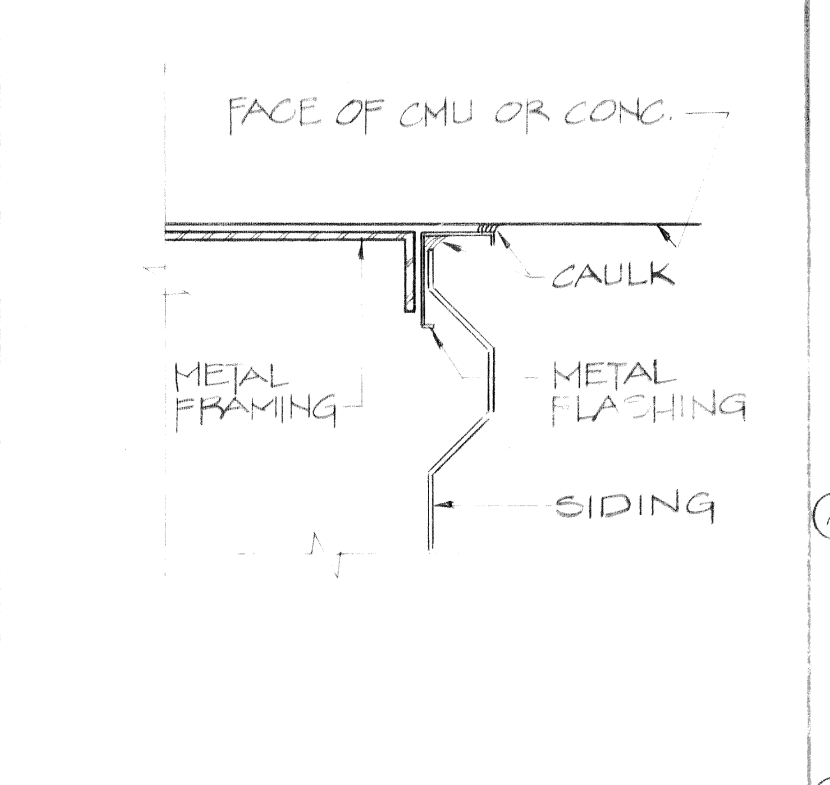
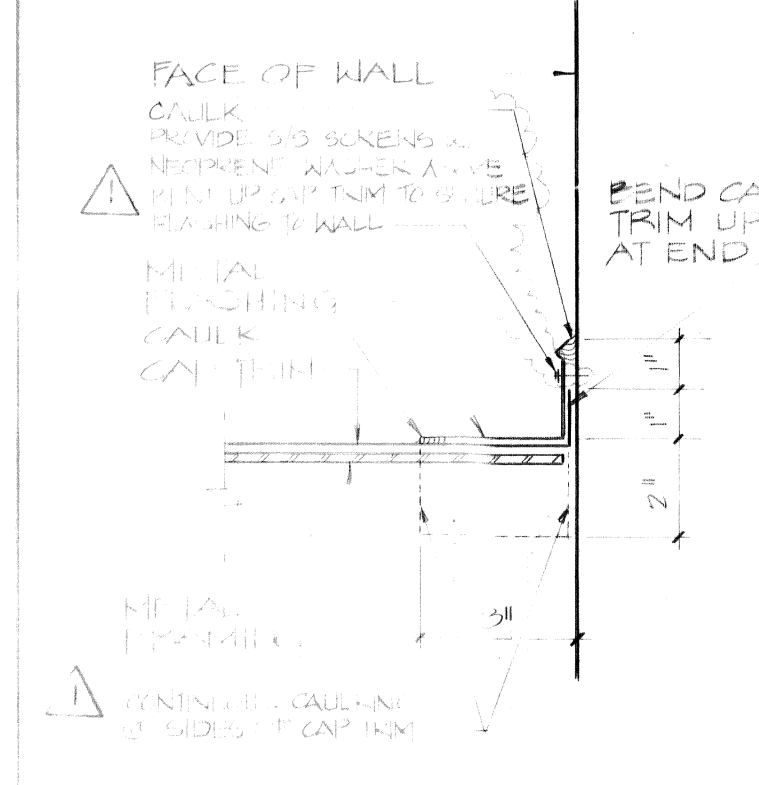
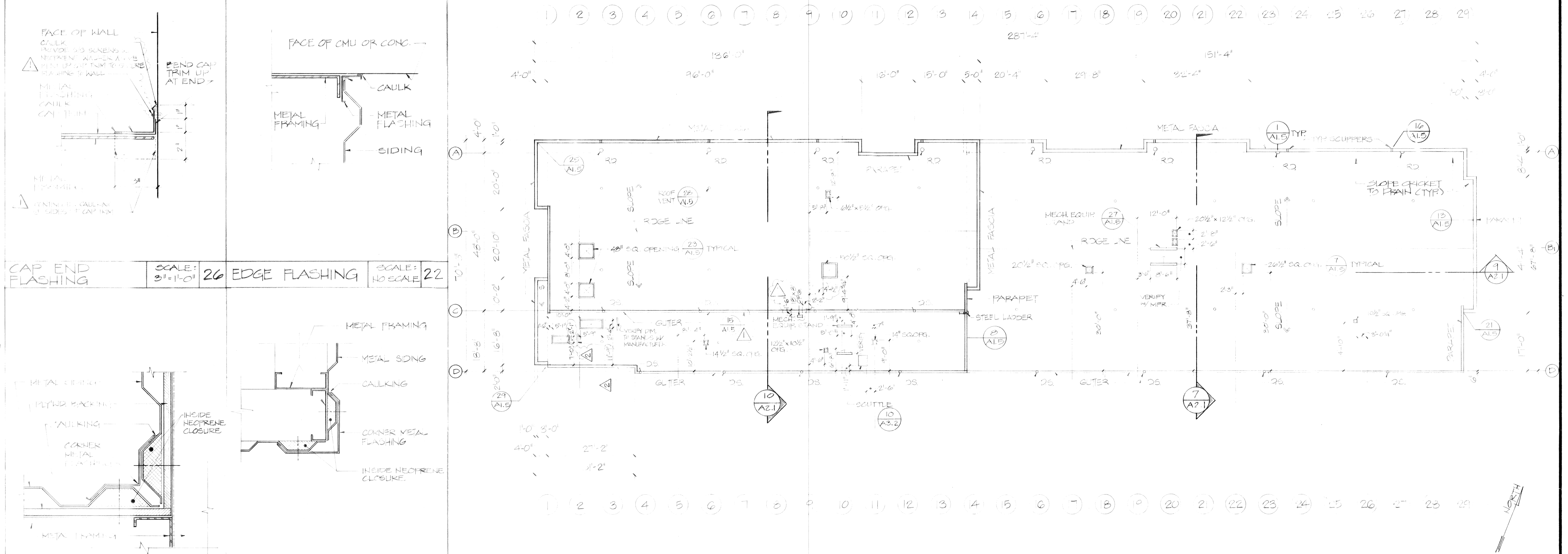


6 DIAGRAM
SCALE: NONE



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

AS-BUILT		1-6-84	
ADD CONDENSATE DRAIN LINE	4 of 8	1/20/83	
REVISION NO.	SYMBOL	DESCRIPTION	DATE
APPROVED: STATE PUBLIC WORKS ENGINEER			
DEPT. OF ACCOUNTING & GENERAL SERVICES DIVISION OF PUBLIC WORKS STATE OF HAWAII			
300-PERSON ARMORY WHEELER A.F.B.			
BUILDING 'B' - A.C. & VENT. GROUND FLOOR PLAN AND DETAILS			
DESIGNED BY: WILSON OKAMOTO & ASSOC.	CHECKED BY: G.C.	DRAWN BY: R.T.	DRAWING NO. 02-14-26-09
APPROVED BY: [Signature]	DATE: 8-2-82	SHEET: 3	OF: 10
SCALE: AS NOTED			



CLARIF. DWG. FOR ADD. P1 & P2	REVISED NOTES AT DETAILS & REVISED DIMENSION @ ROOF PLAN	4 OF 23	11-1-82	
ADD. NO.	ADD. NEOPRENE GASKET FLASHING @ ROOF PLAN & INTERIOR CORNER FLASHING DETAIL	2 OF 23	8-10-82	
REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE
				APPROVED STATE PUBLIC WORKS ENGINEER
DEPT. OF ACCOUNTING & GENERAL SERVICES DIVISION OF PUBLIC WORKS STATE OF HAWAII 300 PERSON ARMORY WHEELER AFB.				
ROOF PLAN & DETAILS				
DESIGNED BY:	CHECKED BY:	DATE:	DRAWING NO.:	SHEET:
DRWN BY:	APPROVED BY:	DATE:	FILE NO.:	SHTS:
SCALE: AS NOTED				

THIS WORK WAS PREPARED BY ME UNDER MY SUPERVISION

Stanford Y. Kurody
Signature

FILE: E DRAWER: 1 FOLDER: 4



Photograph 1
View of roof-mounted ventilation and air-conditioning unit



Photograph 2
View ventilation and air-conditioning unit in the mechanical room



Photograph 3
View of make-up air units for the kitchen



Photograph 4
View of make-up air units for the kitchen







