

GENERAL MECHANICAL NOTES:

- CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY ALL EXISTING FIELD CONDITIONS, DIMENSIONS AND OBSTRUCTIONS.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN THE DRAWINGS (MECHANICAL, STRUCTURAL, ELECTRICAL, OR ARCHITECTURAL) IMMEDIATELY BEFORE PROCEEDING WITH ANY FURTHER WORK, OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COST INVOLVED IN THE CORRECTION OF THE CONSTRUCTION INSTALLATION.
- THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO UTILITIES PRESENT BEFORE DEMOLITION OF ANY SORT SHOULD ANY UTILITIES BE DAMAGED IN THE PROCESS OF DEMOLITION, THE CONTRACTOR SHALL REPAIR THE UTILITIES AT NO COST TO THE STATE. ANY CLAIMS FILED DUE TO THE DISRUPTION OF THE UTILITY SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK SHALL BE NEW UNLESS OTHERWISE NOTED AS EXISTING.
- PROVIDE SEALANT AND FIRE STOPS FOR ALL PIPE, DUCT, CONDUIT, ETC. PENETRATIONS THROUGH FLOORS, WALLS, STRUCTURAL MEMBERS, ETC. THE SEALS SHALL HAVE A FIRE RATING GREATER THAN OR EQUAL TO THE FIRE RATING OF THE WALL, FLOOR AND ENCLOSURE.
- ALL PLUMBING FIXTURES SHALL CONFORM TO UPC SECTION 402 WATER CONSERVATION AND UPC CHAPTER 6.
- PROVIDE 1/4" MESH SS SCREENS AND SS DRAWBANDS FOR VTR'S.
- PROVIDE ACCESS PANELS FOR ALL CLEANOUTS, SHUTOFF VALVES LOCATED IN THE WALLS AND CEILINGS.
- ADJUST FIXTURE HEIGHTS AND ROUGH-INS AS REQUIRED TO MAINTAIN FIXTURE CLEARANCES, ETC. CONFORMING TO ADAAG STANDARDS.
- INSULATE ALL WASTE AND VENT PIPING CARRYING CONDENSATE WITH VAPOR BARRIER AND 1" THICK FIBERGLASS INSULATION. THE PIPING SHALL BE INSULATED UP TO THE NEXT FIXTURE CONNECTION.
- PROVIDE 1/4" STAINLESS STEEL SCREENS FOR ALL FLOORS DRAINS AND CONNECTIONS WHICH ACCEPT PROCESS/WASHDOWN WASTEWATER
- ALL HOLES IN CONCRETE SHALL BE SAW CUT OR CORE DRILLED.

LEGEND & ABBREVIATIONS

SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
	ACCU	AIR COOLED COND UNIT		SS	STAINLESS STEEL
	FCU	FAN COIL UNIT		STRUCT	STRUCTURAL
	ARCH	ARCHITECT		TYP	TYPICAL
	CFM	CUBIC FEET PER MINUTE		UR	URINAL
	CLG	CEILING	VD	VD	VOLUME DAMPER
	CONN	CONNECT		VTR	VENT THRU ROOF
	COTG	CLEAN OUT TO GRADE		WC	WATER CLOSET
	DWG	DRAWING	T	T'STAT	THERMOSTAT
	ELEC	ELECTRICAL		NC	NORMALLY CLOSED
	EXIST	EXISTING			
	EXT	EXTERIOR	----	RL	REFRIGERANT LIQUID PIPE
	FCO	FLOOR CLEANOUT	----	RS	REFRIGERANT SUCTION PIPE
	FD	FLOOR DRAIN	----	CW	COLD WATER PIPING
	FLR	FLOOR	----	HW	HOT WATER PIPING
	FS	FLOOR SINK	----	S	SANITARY PIPING
	HB	HOSE BIBB	- - - -	V	VENT PIPING
	LAV	LAVATORY	----	CW	EXISTING COLD WATER
	MECH	MECHANICAL			PIPING TO REMAIN
	SHT	SHEET	----		EXISTING SANITARY PIPING
	S/S	SERVICE SINK			TO REMAIN

SURVEY PLANNED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No. XX	

REVISED ORDINANCES OF HONOLULU COUNTY
CHAPTER 32
BUILDING ENERGY EFFICIENT STANDARDS

THE BUILDING ENERGY EFFICIENT STANDARDS HAVE BEEN REVIEWED AND TO THE BEST OF MY KNOWLEDGE THIS DESIGN SUBSTANTIALLY CONFORMS TO THESE STANDARDS.

SIGNATURE
[Signature]

KEVIN K. KATAYAMA
NAME (PRINT)
MECHANICAL ENGINEER
TITLE (ARCHITECT, ME, EE)
7913-M
ARCH. OR PE LICENSE NO.

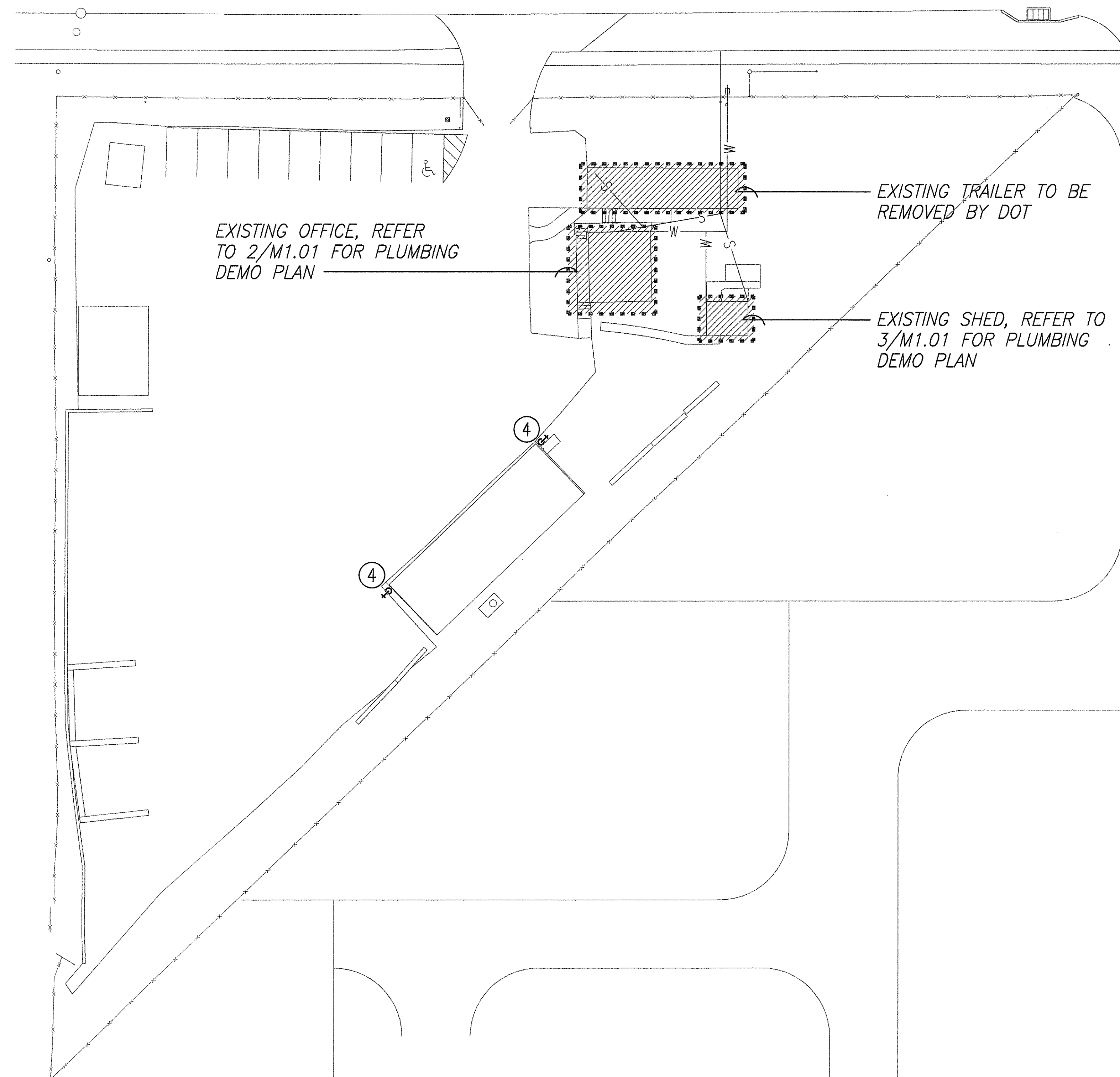


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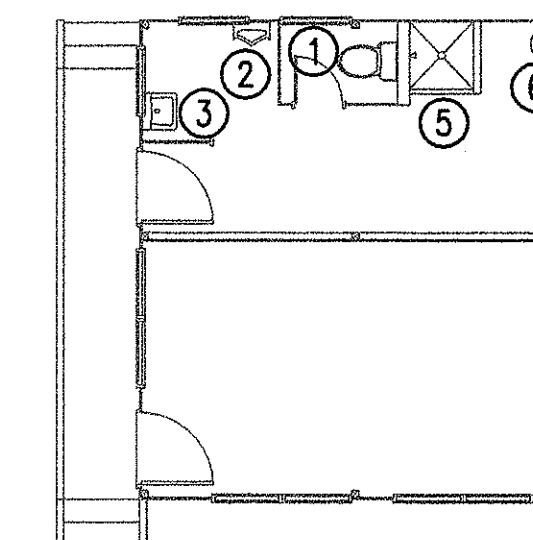
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL MECHANICAL NOTES
LEGEND & ABBREVIATIONS
WAHIWA BASEYARD
IMPROVEMENTS
Project No. HWY-0-12-00
Scale: AS SHOWN Date: JAN. 2003
SHEET No. M1.00 OF 82 SHEETS

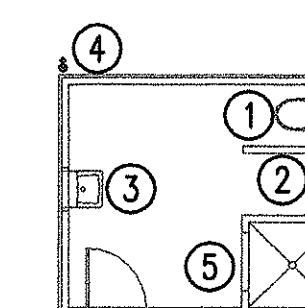
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-12-00	2004	69	82



MECHANICAL EX-SITE DEMOLITION PLAN 1
 Scale: 1"=20'-0" M1.01 | M1.01
 NORTH



EX-OFFICE DEMOLITION PLAN 2
 Scale: 1/8"=1'-0" M1.01 | M1.01
 NORTH



EX-SHED DEMOLITION PLAN 3
 Scale: 1/8"=1'-0" M1.01 | M1.01
 NORTH

DEMOLITION NOTES:

- ① REMOVE COMPLETE WATER CLOSET, CW SUPPLY STOP AND ALL CW, VENT AND SEWER PIPING ABOVE GRADE. CUT, CAP AND ABANDON EXISTING CW SEWER AND VENT PIPING BELOW GRADE.
- ② REMOVE COMPLETE URINAL, CW SUPPLY STOP AND ALL CW, VENT AND SEWER PIPING ABOVE GRADE. CUT, CAP AND ABANDON EXISTING CW SEWER AND VENT PIPING BELOW GRADE.
- ③ REMOVE COMPLETE LAVATORY, DRAIN ASSEMBLY, CW SUPPLY STOP AND ALL CW, SEWER AND VENT PIPING ABOVE GRADE. CUT, CAP AND ABANDON EXISTING CW, SEWER AND VENT PIPING BELOW GRADE.
- ④ REMOVE COMPLETE HOSE BIBB, AND ALL CW PIPING ABOVE GRADE. CUT, CAP AND ABANDON ALL PIPING BELOW GRADE.
- ⑤ REMOVE COMPLETE SHOWER DRAIN, CAP AND ABANDON EXISTING SEWER AND VENT PIPING BELOW GRADE. REMOVE COMPLETE SHOWER TRIM INCLUDING ALL EXPOSED CW AND HW PIPING. CUT, CAP AND ABANDON PIPING BELOW GRADE.
- ⑥ REMOVE COMPLETE ELECTRIC WATER HEATER IN REUSABLE CONDITION AND RETURN TO DEPARTMENT OF TRANSPORTATION. REMOVE ALL PIPING AND VALVES COMPLETELY. CUT, CAP AND ABANDON ALL PIPING BELOW GRADE.
- ⑦ REMOVE ALL ABANDONED PIPING THAT WILL INTERFERE WITH THE INSTALLATION OF NEW PIPING.



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DEMOLITION PLANS
DEMOLITION NOTES**

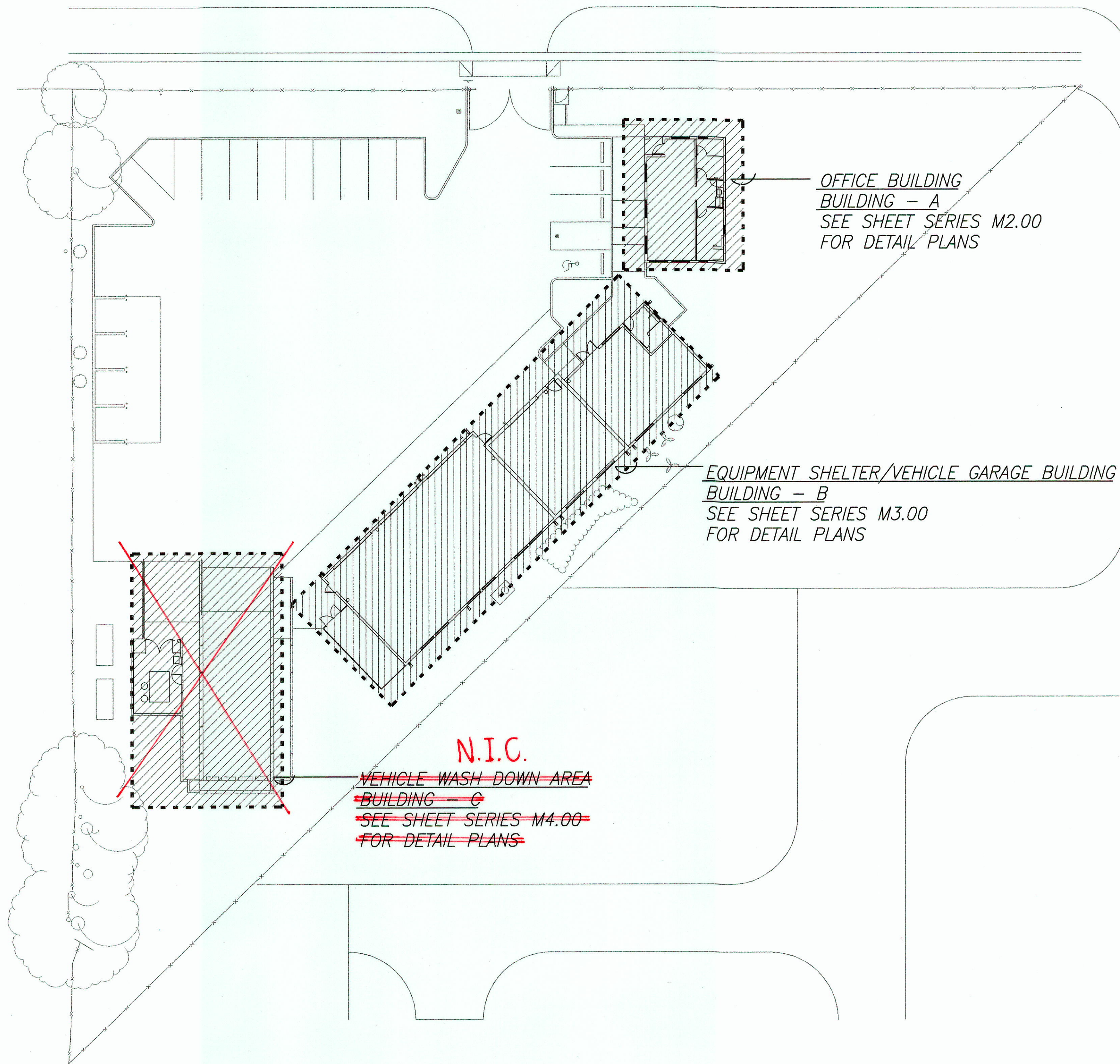
WAIHAWA BASEYARD
IMPROVEMENTS

Project No. HWY-0-12-00

Scale: AS SHOWN Date: JAN. 2003

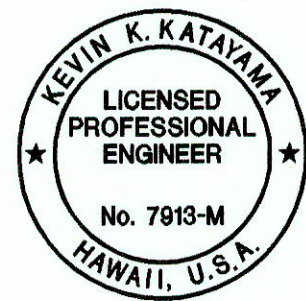
SHEET No. M1.01 OF 82 SHEETS

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NOTE BOOK	
No. XX	



FIXTURE CALCULATION			
FIXTURE TYPE	NO. OF FIXTURES	FIXTURE UNITS PER	TOTAL FIXTURE UNITS
<u>DEMOLITION</u>			
SHOWER	2	2.0	4.0
WATER CLOSET	2	3.0	6.0
URINAL	2	3.0	6.0
LAV	2	1.0	2.0
HOSE BIBB (LAST)	1	2.5	2.5
HOSE BIBB	2	1.0	2.0
TOTAL			22.5 F.U.
			37.0 GPM
<u>NEW</u>			
SHOWER	1	1.6	1.6
WATER CLOSET	2	1.7	3.4
URINAL	2	1.7	3.4
LAV	3	.6	1.8
HOSE BIBB (FIRST)	1	2.5	2.5
HOSE BIBB	11	1.0	12.0
SINK	3	1.6	3.2
EMERG. EYEWASH	2	3.0	6.0
ICE MAKER	1	1.0	1.0
TOTAL			34.9 F.U.
			44.0 GPM

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NOTE BOOK	
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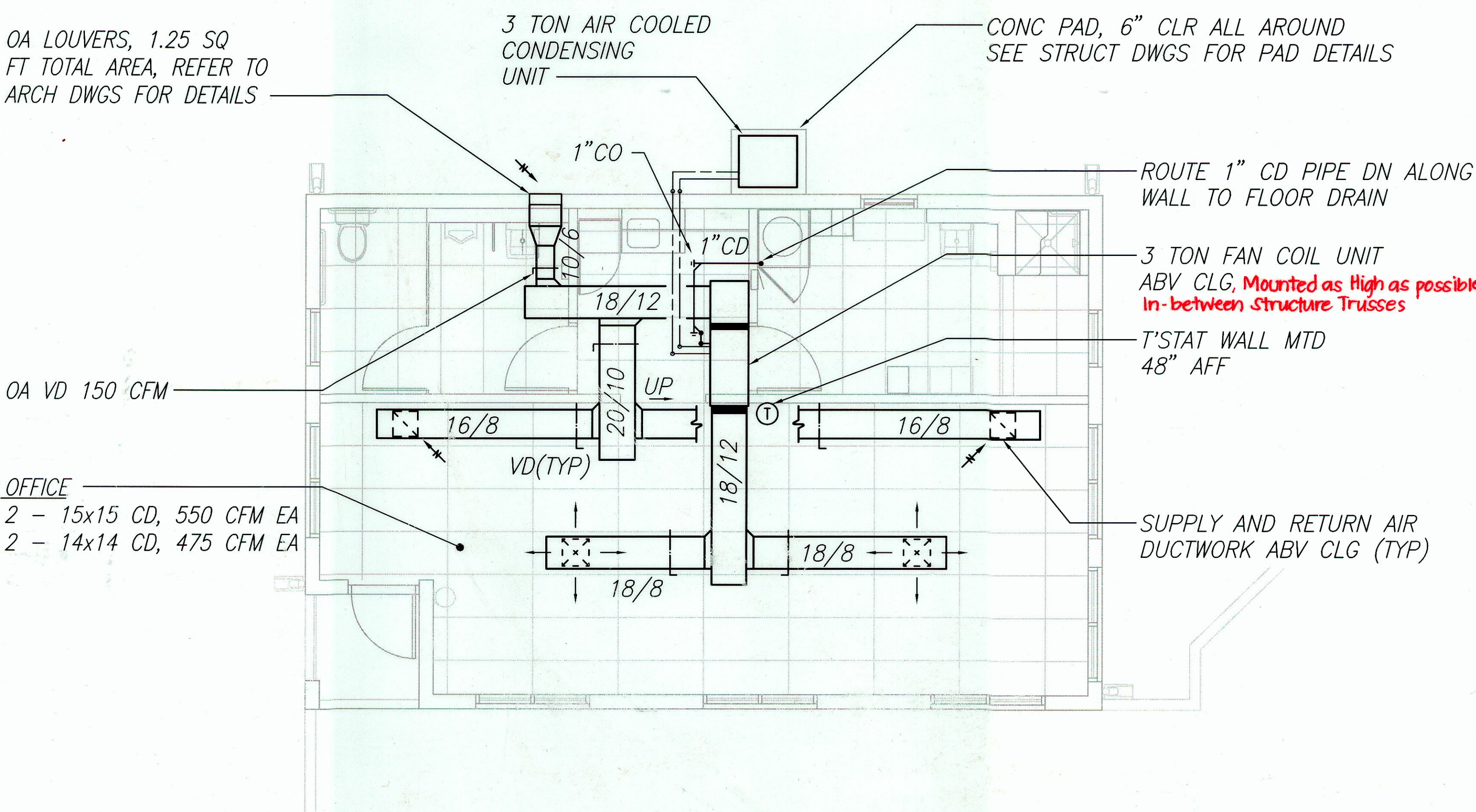


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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MECHANICAL SITE PLAN
FIXTURE CALCULATIONS
WAIHAWA BASEYARD
IMPROVEMENTS
Project No. HWY-0-12-00
Scale: AS SHOWN Date: JAN. 2003
SHEET No. M1.02 OF 82 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-12-00	2003	71	82

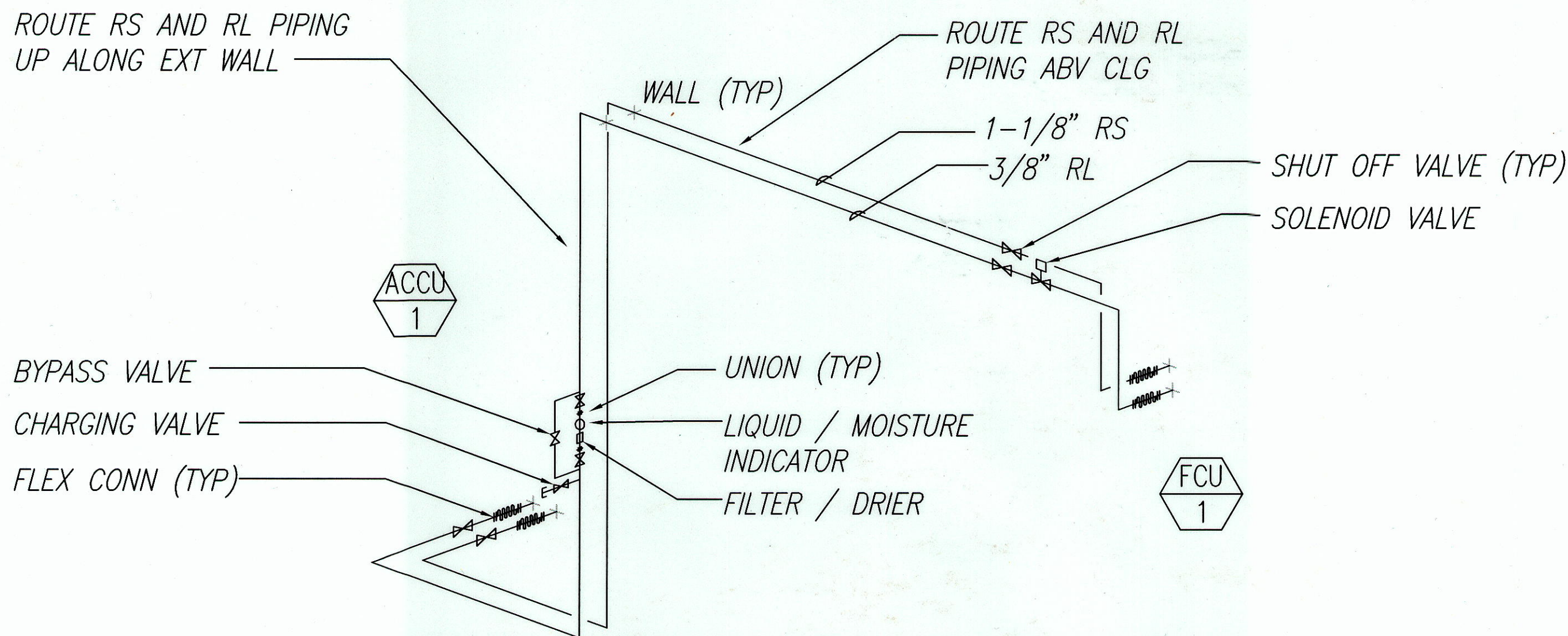


OFFICE MECHANICAL FLOOR PLAN

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

NORTH

M2.00 M2.00



REFRIGERANT PIPING DIAGRAM

Scale: NO SCALE

M2.00 M2.00

EQUIPMENT SCHEDULE

FCU 1

HORIZONTAL DRAW THRU UNIT, DX COOLING COIL, FORWARD CURVED, BELT DRIVEN FAN. SINGLE CIRCUIT COOLING COIL. GALVANIZED STEEL CASING, INTERNAL MOTOR. PROVIDE 1" THICK THROWAWAY FILTER, With Filter Access from Bottom of Unit.

36,600 TOTAL BTUH, 28,700 SENSIBLE BTUH

78.0°FDB / 64.0°FWB ENT. AIR

1,100 CFM @ 0.6 E.S.P., 750 RPM APPROX.

3.9 SQ. FT. COIL AREA, 290 FPM FACE VELOCITY.

150 CFM OA, 1/2 HP, 208V/1Ø/60HZ.

TRANE TWE 036C

ACCU 1

VERTICAL DISCHARGE, R-22, DIRECT DRIVE PROPELLER FAN MOTOR. PAINTED GALVANIZED STEEL CABINET, CORROSION PROTECTION ON CABINET. PROVIDE HOT GAS BYPASS KIT. COIL EER 9.0

36,600 TOTAL BTUH, 28,700 SENSIBLE BTUH

45°F SUCTION, 95°F EAT

COMPRESSORS (1 EA.) - 208V/1Ø/60 HZ., 16.0 RLA, 91.0 LRA

CONDENSER FAN (1 EA) - 1/4 HP, 208V/1Ø/60 HZ., 1.9 FLA

TRANE TTP 036C

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	XX



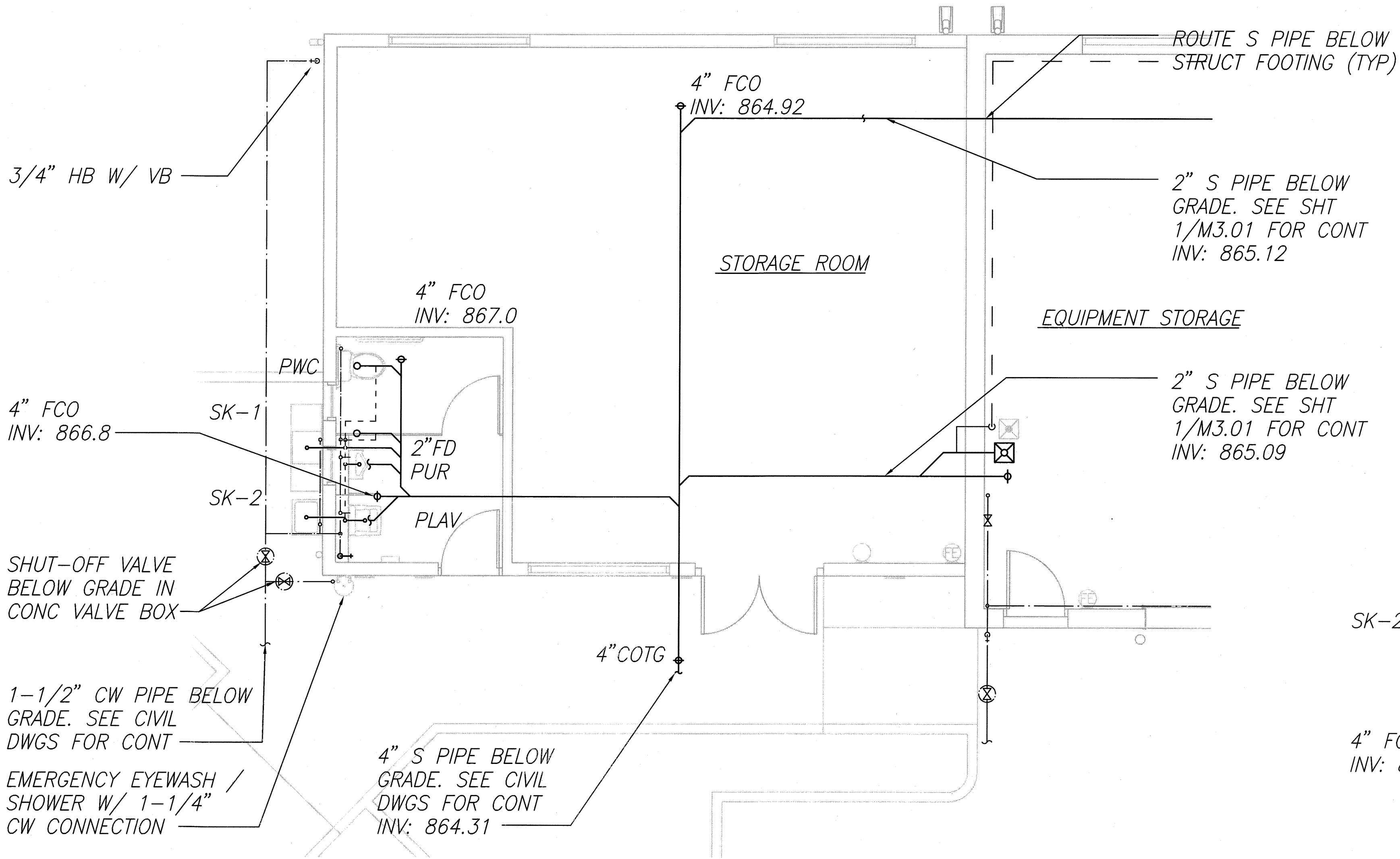
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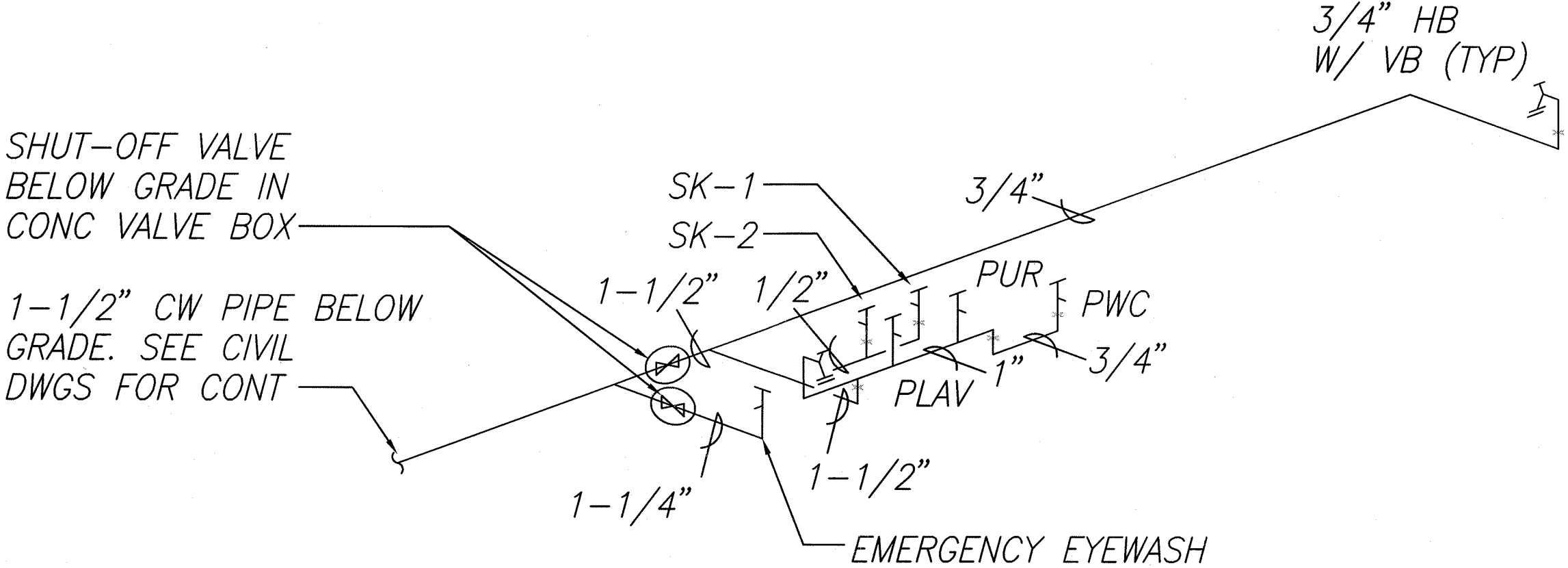
12/15/08	This sheet replaces the original sheet Δ DPP/DLU Comments dated 2/22/08
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
OFFICE BUILDING MECHANICAL FLOOR PLAN	
WAIHAWA BASEYARD IMPROVEMENTS	
Project No. HWY-0-12-00	
Scale: AS SHOWN	Date: JAN. 2003
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"AS-BUILT"

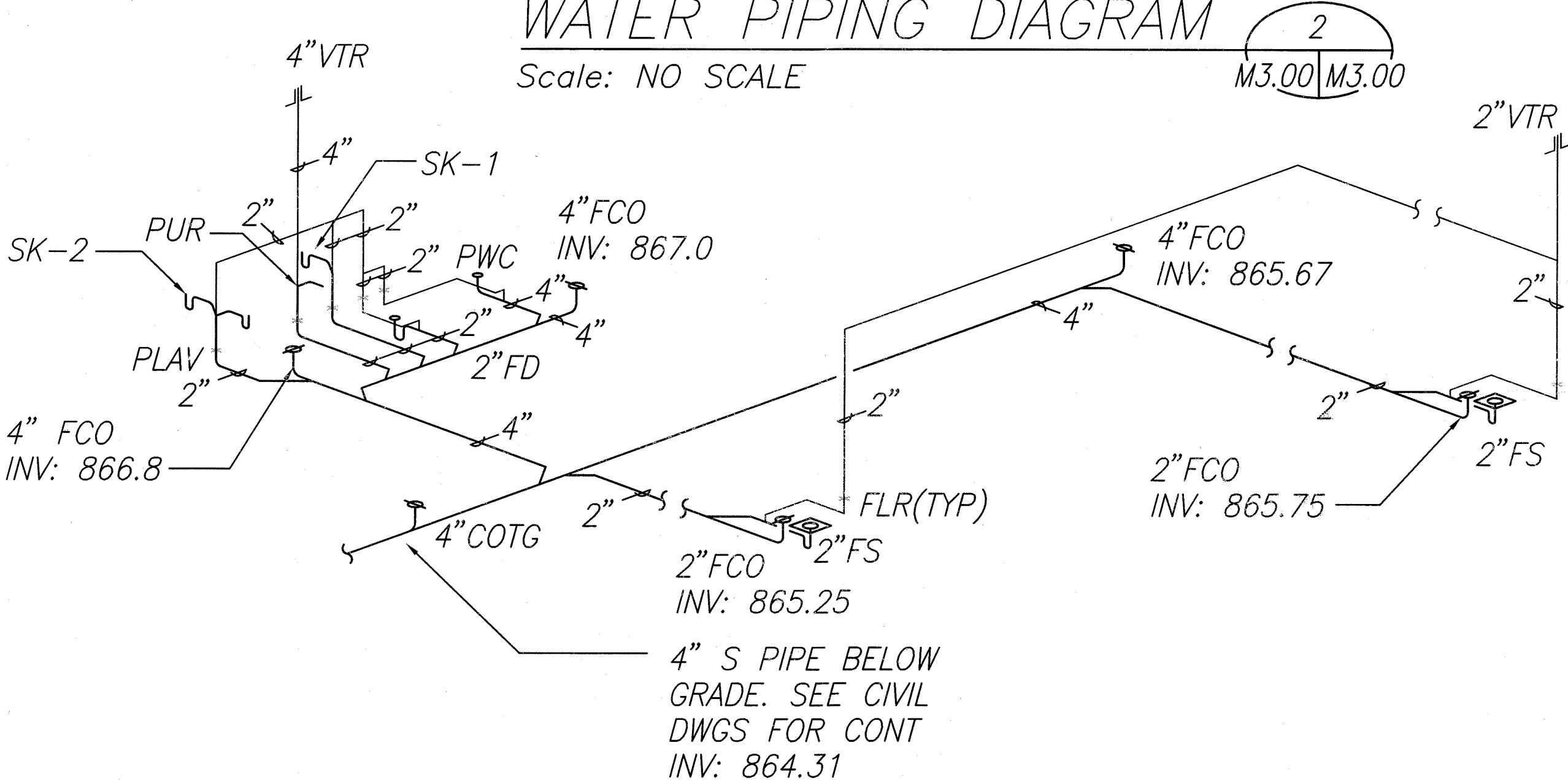
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-12-00	2003	73	82



STORAGE/RESTROOM PLUMBING FLOOR PLAN
 Scale: 1/4"=1'-0"
 NORTH



WATER PIPING DIAGRAM
 Scale: NO SCALE



SANITARY PIPING DIAGRAM
 Scale: NO SCALE

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DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STORAGE/RESTROOM PLUMBING FLOOR PLAN WAHIAWA BASEYARD IMPROVEMENTS Project No. HWY-0-12-00 Scale: AS SHOWN Date: JAN. 2003 SHEET No. M3.00 OF 82 SHEETS	

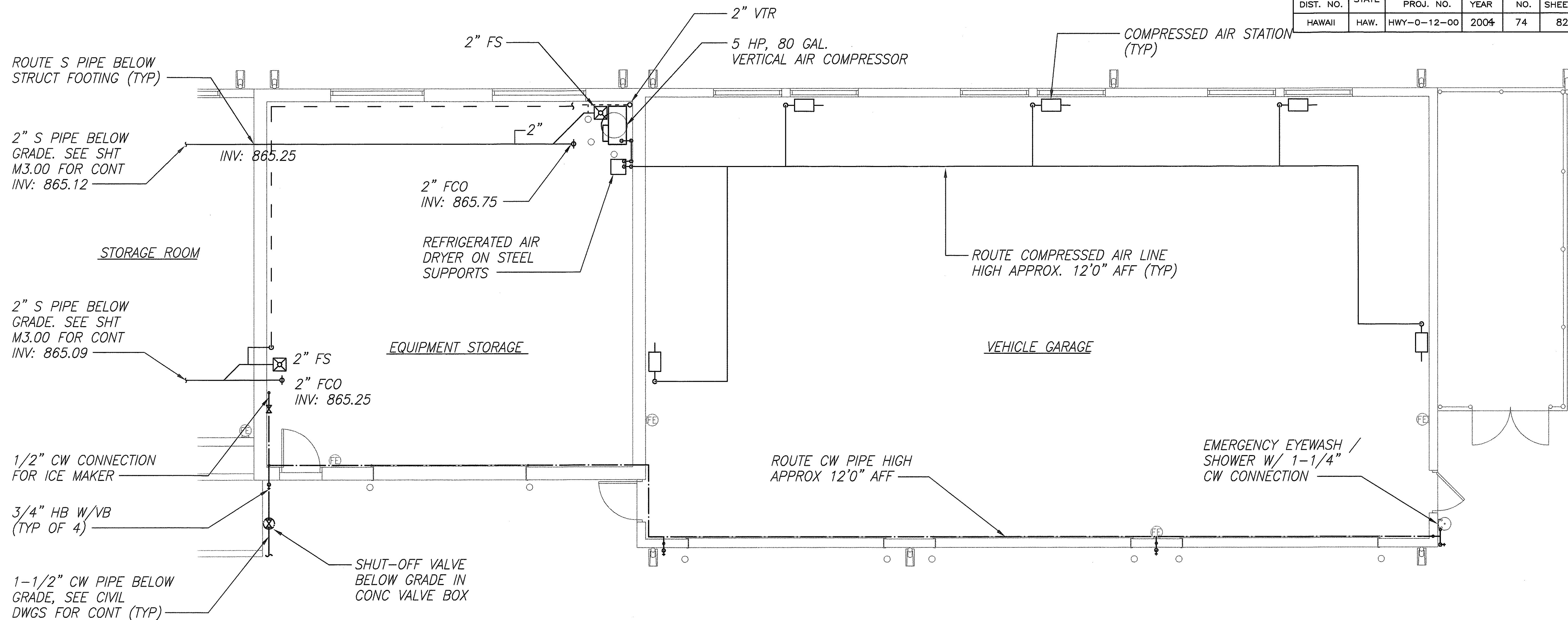


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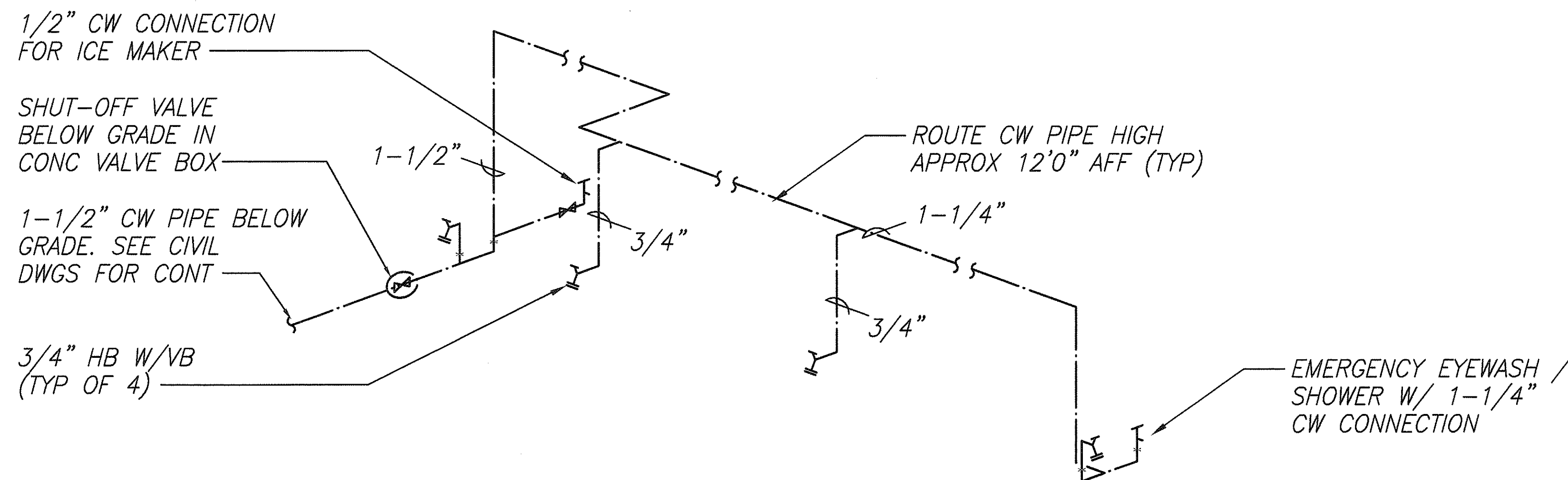
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NO.	XX

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-12-00	2004	74	82

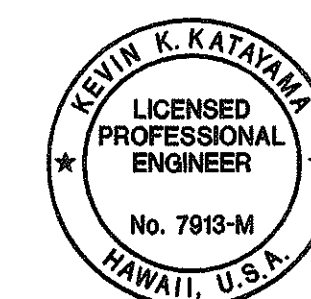


VEHICLE GARAGE PLUMBING FLOOR PLAN
 Scale: 1/4"=1'-0"
 NORTH
 M3.01 M3.01



WATER PIPING DIAGRAM
 Scale: NO SCALE
 M3.01 M3.01

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
QUANTITIES BY	
ORIGINAL PLAN	XX
NO.	



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Kevin K. Katayama

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

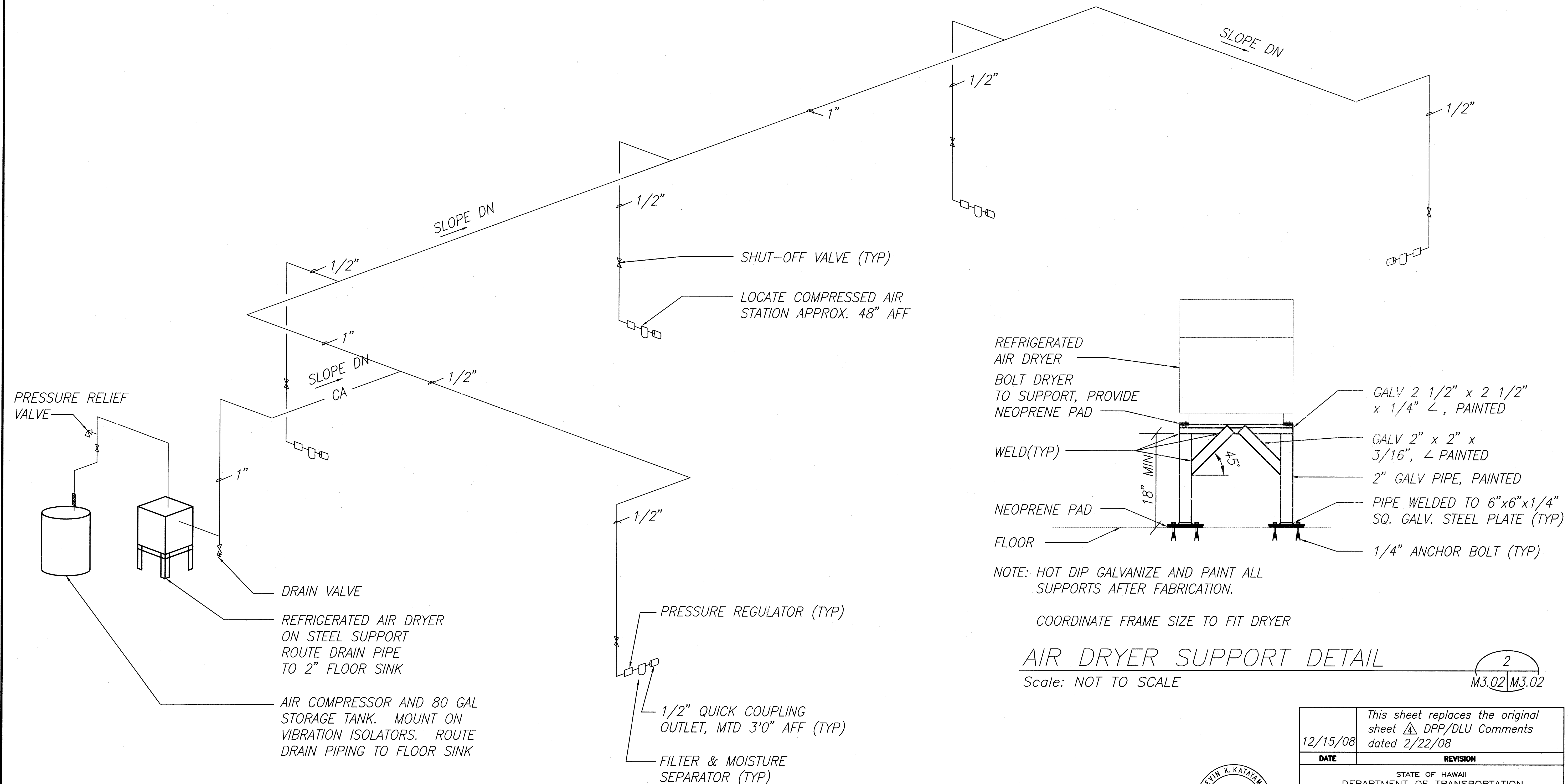
VEHICLE GARAGE PLUMBING FLOOR PLAN

WAIHAWA BASEYARD IMPROVEMENTS
 Project No. HWY-0-12-00

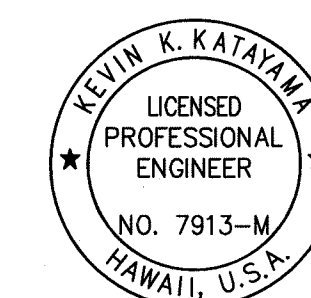
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SHEET No. M3.01 OF 82 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-12-00	2003	75	82



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QUANTITIES BY	
ORIGINAL PLAN	
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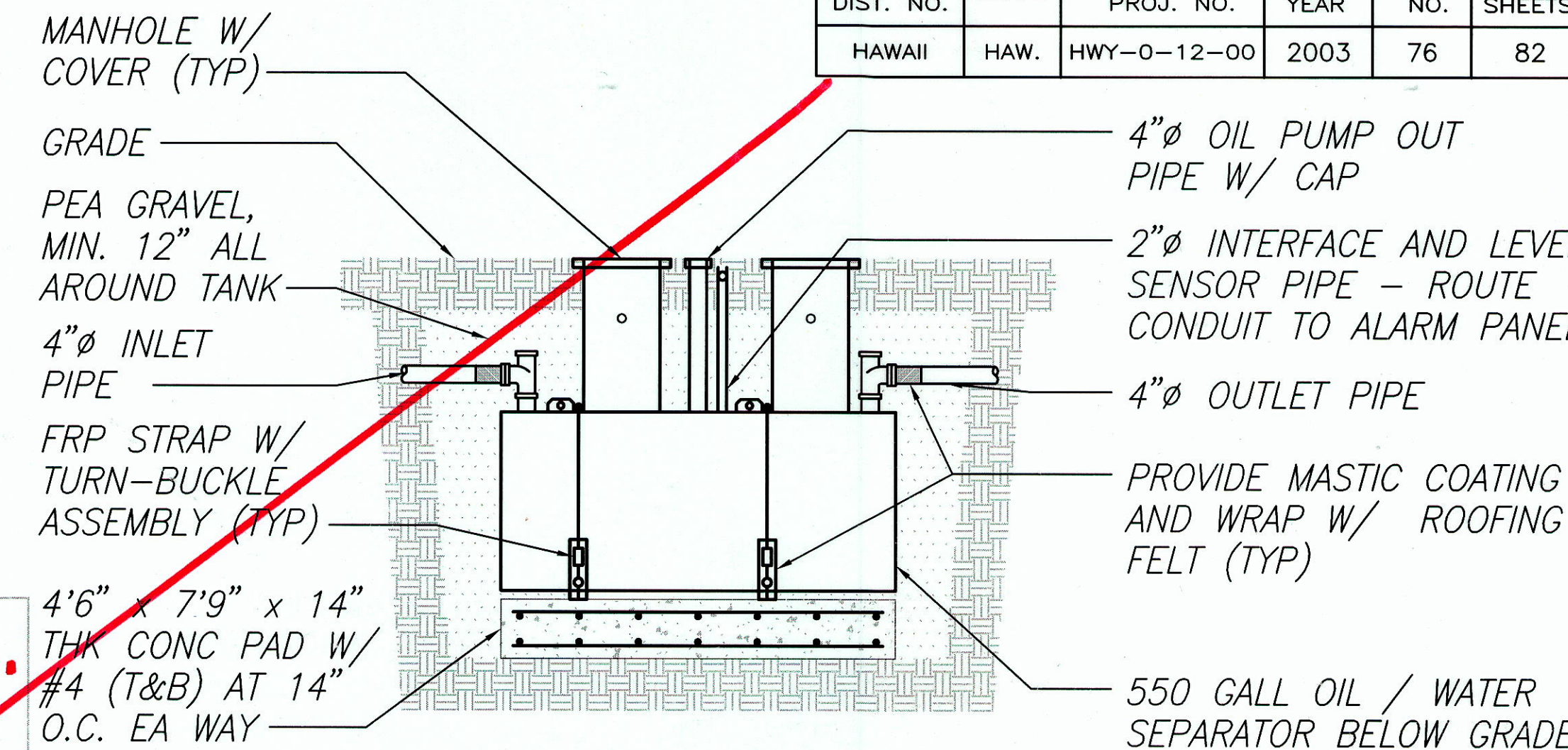
K. Katayama

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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION VEHICLE GARAGE PLUMBING FLOOR PLAN WAHIAWA BASEYARD IMPROVEMENTS Project No. HWY-0-12-00 Scale: AS SHOWN Date: JAN. 2003 SHEET No. M3.02 OF 82 SHEETS	

WATER RECYCLING SEQUENCE OF OPERATION:

DURING OPERATION OF THE RECYCLING UNIT, THE MOTORIZED BUTTERFLY VALVE WILL DIVERT THE WASHDOWN WATER TO THE SUMP PUMP, WHERE THE PUMP WILL THEN PUMP THE WATER BACK TO THE RECYCLING UNIT. SHOULD THE PUMP FAIL THE WATER WILL NOT RETURN TO THE RECYCLING UNIT AND BE HELD IN THE SUMP PIT AND SOLIDS COLLECTOR. THE RECYCLING UNIT WILL "RUN OUT OF WATER" IN THIS INSTANCE, THE OPERATOR SHALL CHECK THE RECYCLING UNIT OPERATION AS WELL AS THE SUMP PUMP FOR MALFUNCTIONS. THE RECYCLING UNIT DISCHARGES WATER TO THE SANITARY SYSTEM ONLY DURING BACKWASHING PERIODS. THE UNIT DOES NOT HAVE A DIRECT CONNECTION TO THE DOMESTIC WATER SYSTEM. A HOSE BIBB IS PROVIDED SUCH THAT A HOSE CAN BE CONNECTED TO THE UNIT TO FILL THE WATER RESERVOIRS.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-12-00	2003	76	82



OIL WATER SEPARATOR SECT 2

Scale: NOT TO SCALE

M4.00 M4.00

BUTTERFLY VALVE ACTUATOR SWITCH IN NEMA 4X PANEL MOUNT 48" AFF. PROVIDE LABELS TO INDICATE VALVE POSITION (OPEN / CLOSED)

PROVIDE SIGN MTD NEXT TO SWITCH AND HB TO READ "WHEN USING HOSE BIBBS, THE VALVE SWITCH SHALL BE ACTUATED TO THE CLOSED POSITION" (TYP OF 2)

3/4" HB W/ VB ROUTE CW PIPING BELOW GRADE (TYP OF 2)

PORTABLE PRESSURE WASHER W/ HOSE CONN TO WATER RECYCLE SYSTEM

2" SEWER DRAIN PIPE CONN TO CIVIL MAIN. REFER TO CIVIL DWGS FOR CONT. - INV: 865.5

1-1/2" CW PIPE BELOW GRADE, CONN TO CIVIL MAIN. REFER TO CIVIL DWGS FOR CONT.

SHUT-OFF VALVE BELOW GRADE IN CONC VALVE BOX

1-1/2" CW RBPB PROVIDE PER BWS STANDARD DETAIL 126

VEHICLE WASHDOWN AREA REFER TO ARCH DWGS FOR DETAILS

HB-CONN TO WATER RECYCLING SYSTEM ONLY, PROVIDE SIGN - "CAUTION: NONPOTABLE WATER, DO NOT DRINK"

2" FCO INV: 866.96

2" V PIPE FROM SEPARATOR UP ALONG WALL TERMINATE 6" ABOVE HIGHEST POINT OF WALL

LEAK DETECTION AND LEVEL SENSOR CONTROL PANEL / ALARM IN NEMA 4X ENCLOSURE

CATCH BASIN (DIVERSION) REFER TO DETAIL 2/M4.01 INV: 862.95

30 GPM SELF CONTAINED WATER RECYCLING SKID MOUNTED UNIT REFER TO 1/M4.01 FOR SYSTEM SCHEMATIC

4" AREA DRAIN (FD) IN CONC CURB. REFER TO STRUCT DWGS FOR CURB DETAILS

3/4" HB W/ VB FOR CONN MAKE-UP WATER CONN TO WATER RECYCLING UNIT

4" COTG INV: 865.4

SUMP PIT WITH SUMP PUMP ROUTE PIPING TO WATER RECYCLER INV: 860.28

FIBERGLASS SOLID COLLECTOR WITH DIAMOND ALUMINUM COVER PLATES

4" DRAINAGE PIPING BELOW GRADE

4" COTG INV: 865.14

MOTORIZED BUTTERFLY VALVE IN VALVE BOX, WIRE TO SWITCH

4" COTG INV: 863.62

550 GALL OIL / WATER SEPARATOR BELOW GRADE

4" STORM DRAIN PIPE CONN TO CIVIL MAIN. REFER TO CIVIL DWGS FOR CONT. - INV: 863.12



VEHICLE WASH PLUMBING FLOOR PLAN

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

M4.00 M4.00



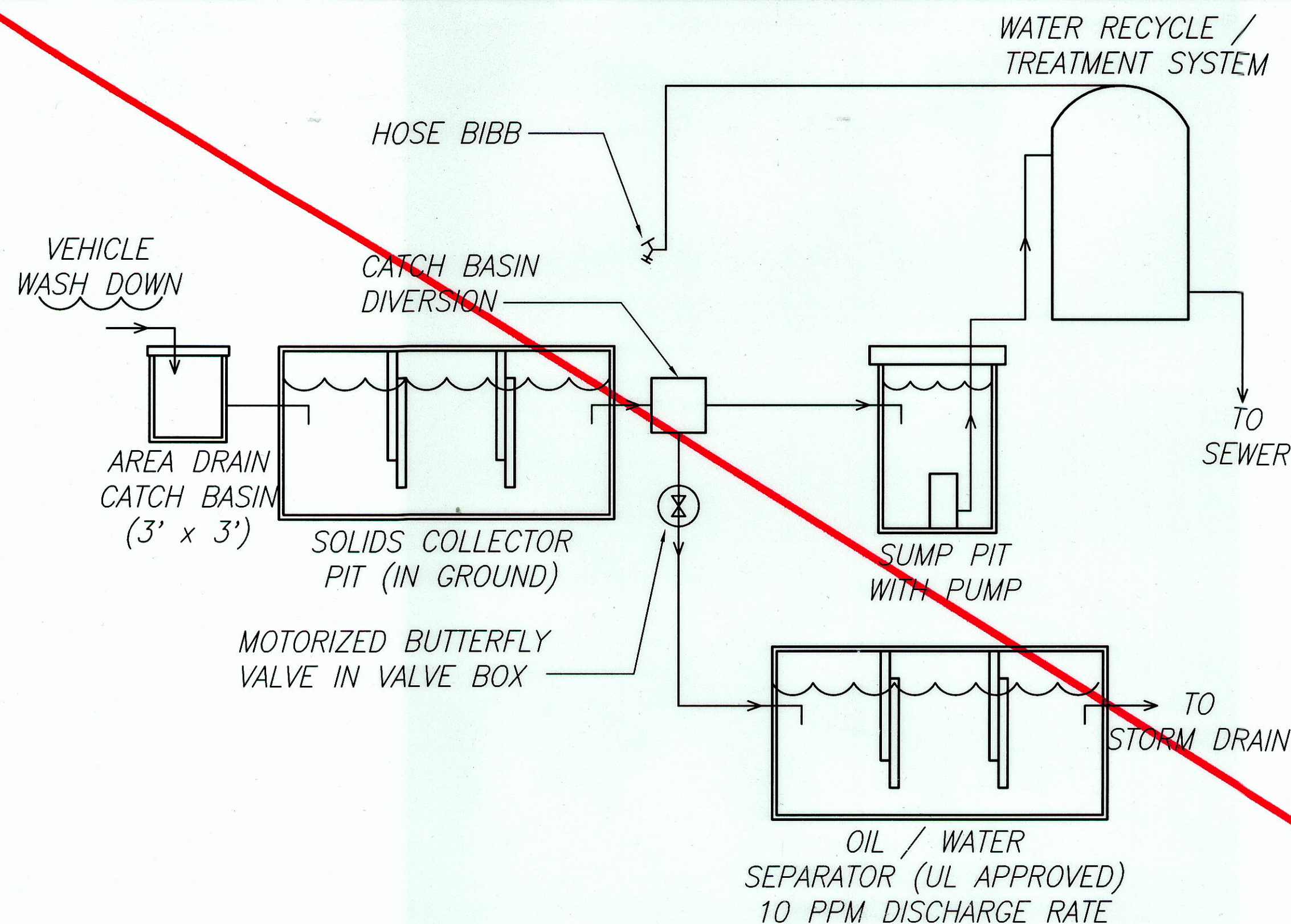
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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION VEHICLE WASH PLUMBING FLOOR PLAN WAHIAWA BASEYARD IMPROVEMENTS Project No. HWY-0-12-00 Scale: AS SHOWN Date: JAN. 2003 SHEET No. M4.00 OF 82 SHEETS	

"AS-BUILT"

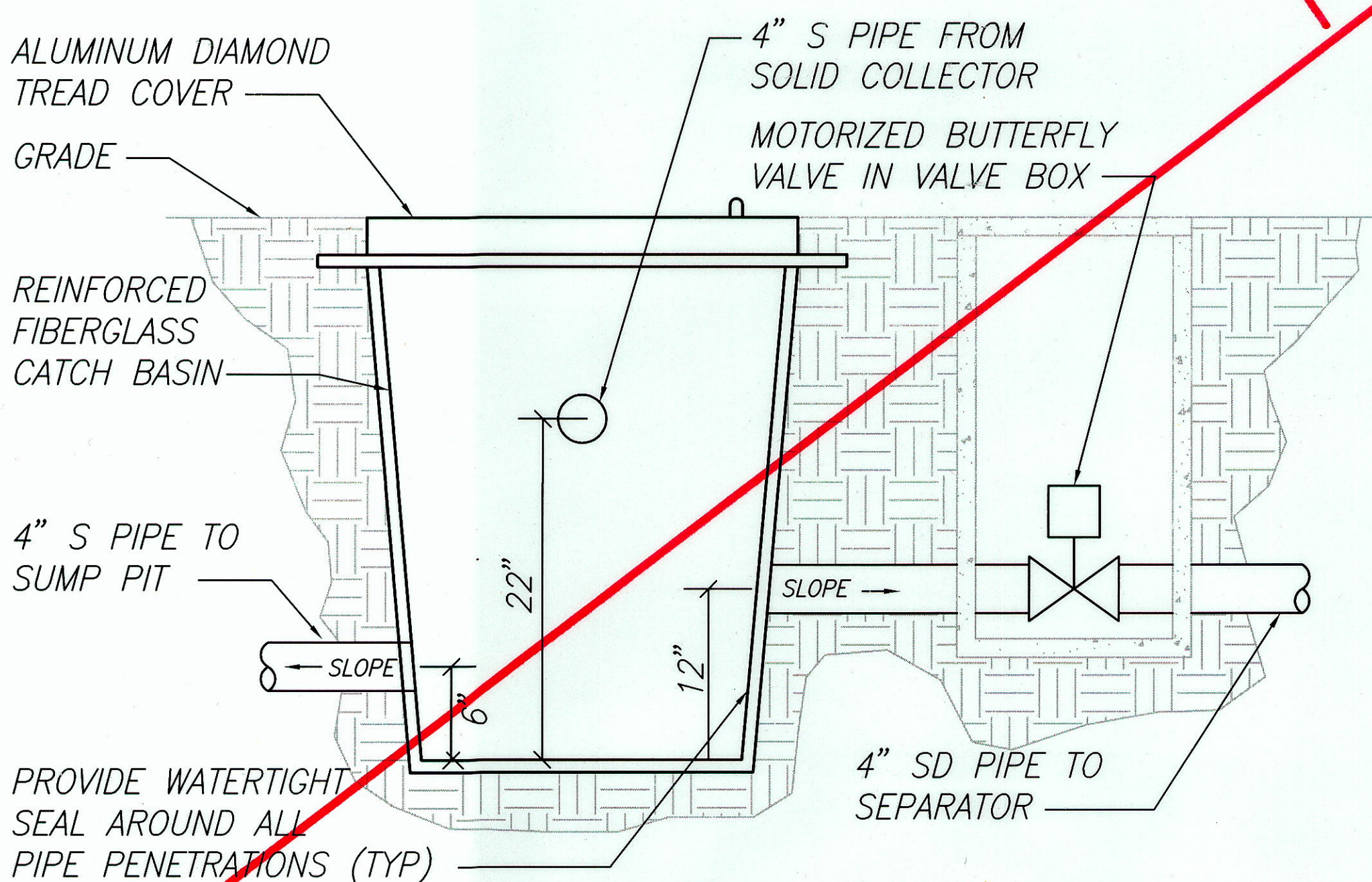
C.O.76

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-12-00	2003	77	82



VEHICLE WASH SYSTEM SCHEMATIC

Scale: NOT TO SCALE



CATCH BASIN (DIVERSION) DETAIL

Scale: NOT TO SCALE

PROVIDE GOOSENECK ON 2" VENT TERMINATE 6" ABOVE HIGHEST POINT OF WALL

SUMP PIT WITH SUMP PUMP, ROUTE PIPING WATER RECYCLED

2" V PIPE FROM SEPARATOR UP ALONG WALL TERMINATE 6" ABOVE HIGHEST POINT OF WALL

CATCH BASIN (DIVERSION) REFER TO DETAIL 2/M4.01

MOTORIZED BUTTERFLY VALVE IN VALVE BOX

1-1/2" CW RBPB PROVIDE PER BWS STANDARD DETAIL 126

SHUT-OFF VALVE BELOW GRADE IN CONC VALVE BOX

1-1/2" CW PIPE BELOW GRADE, CONN TO CIVIL MAIN. REFER TO CIVIL DWGS FOR CONT.

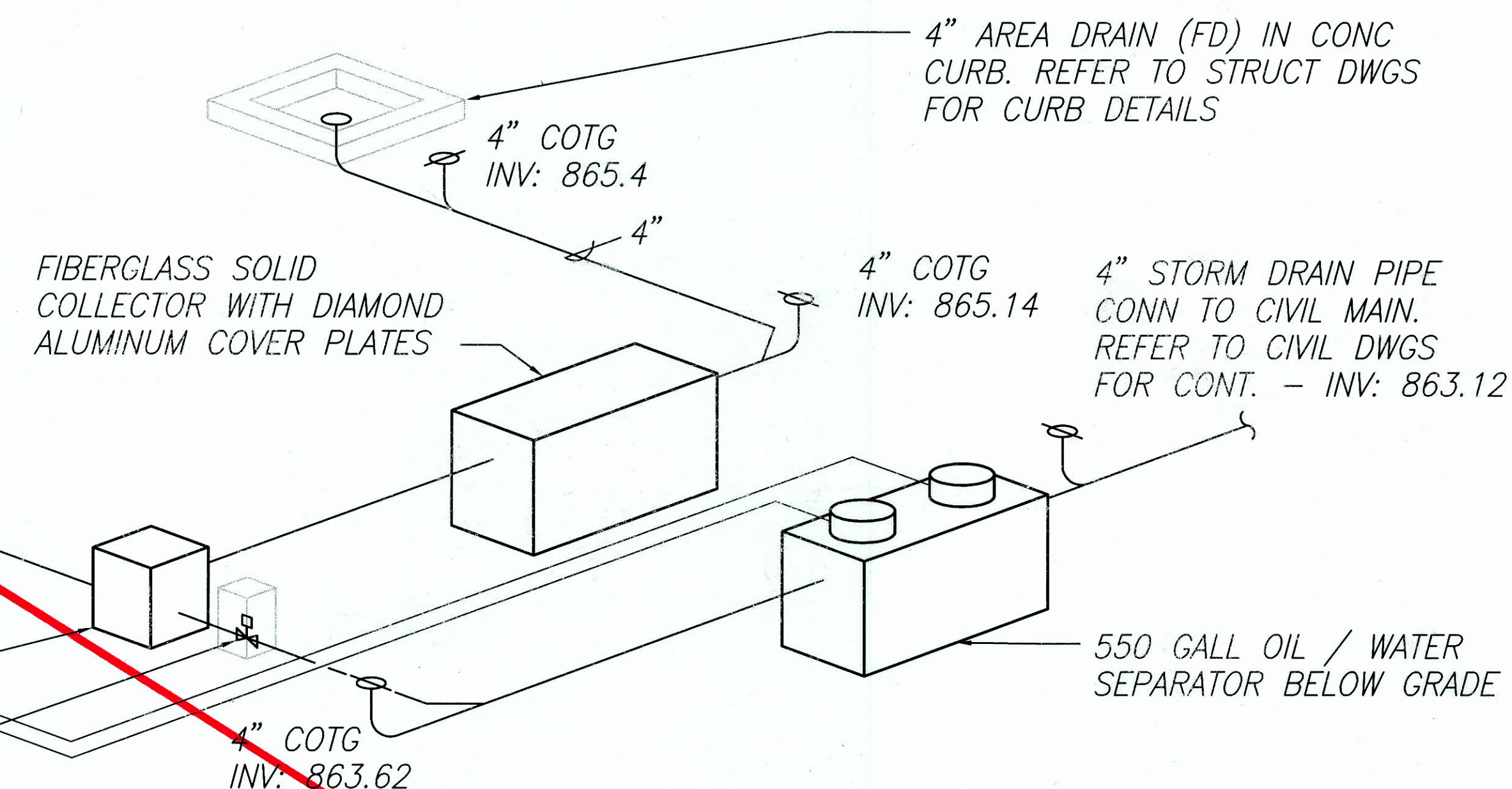
3/4" HB W/ VB (TYP OF 2)

GROUND (TYP)

WATER PIPING DIAGRAM

Scale: NO SCALE

3
M4.01 | M4.01

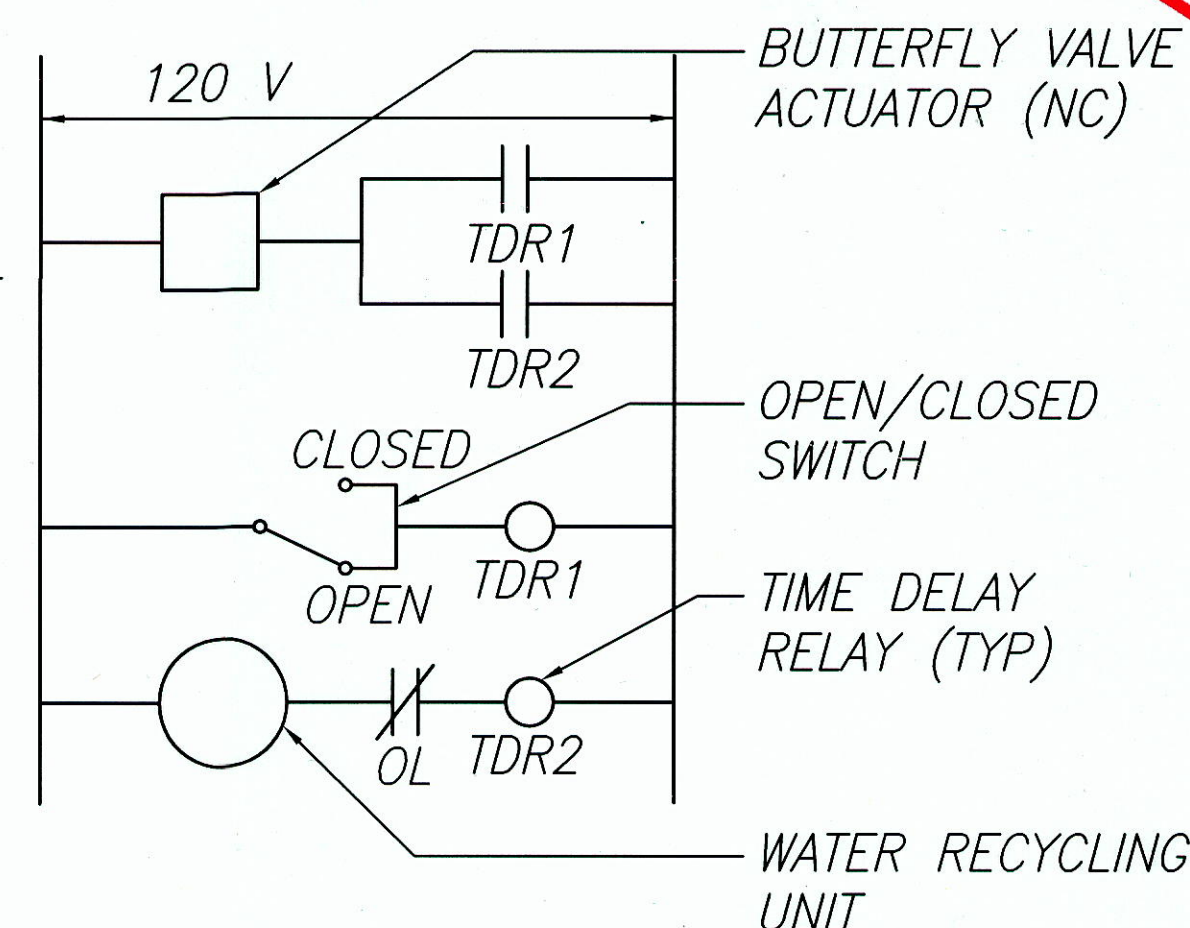


SANITARY PIPING DIAGRAM

Scale: NO SCALE

4
M4.01 | M4.01

VALVE SEQUENCE OF OPERATION
THE MOTORIZED BUTTERFLY VALVE SHALL BE NORMALLY OPEN. THE VALVE SHALL CLOSE WHEN EITHER TRIGGERED BY THE OPERATION OF THE WATER RECYCLING UNIT OR WHEN THE SWITCH MOUNT IS ACTIVATED. PROVIDE TIME DELAY RELAYS (0-5 MINS) SET FOR ONE MIN.



VALVE CONTROL DIAGRAM

Scale: NOT TO SCALE

5
M4.01 | M4.01



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DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION VEHICLE WASH SYSTEM SCHEMATIC WAHIAWA BASEYARD IMPROVEMENTS Project No. HWY-0-12-00 Scale: AS SHOWN Date: JAN. 2003 SHEET No. M4.01 OF 82 SHEETS	

"AS-BUILT"

C.O.77