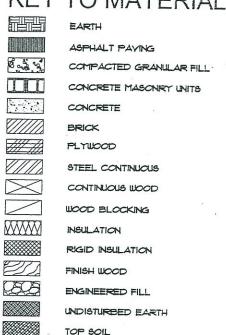
DESERT SAGE HEALTH CENTER

2280 American Legion Blvd.

part of Glenns Ferry Health Center

Mountain Home, Idaho

KEY TO MATERIALS



CRUSHED GRAVEL

SAND

CONSULTANTS

ARCHITECT MEDICAL DESIGN GROUP 2716 Westland Place Boise, Idaho 83704 archmdg@aol.com E-MAIL (208) 378-1405 FAX (208) 378-0817 PHONE David R. Davies, AIA NCARB

CIVIL ENGINEER AND STRUCTURAL ENGINEER PINNACLE ENGINEERS, INC. 12552 W. Executive Dr., Suite B Boise, Idaho 83713 brians@pinnacle-engineers.com (208) 887-7781 FAX (208) 887-7760 PHONE Brian Smith, PE,SE Roger Smith, PE

MECHANICAL ENGINEER ELKHORN ENGINEERS, P.A. 290 E. Magic View Dr., Ste 190 Meridian, Idaho 83642 otennyson@elkhorneng.com (208) 955-0999 FAX (208) 955-0555 PHONE Owen Tennyson, CIPE

ELECTRICAL ENGINEER PAYNE ENGINEERING INC. 107 So. 18th Ave Pocatello, Idaho 83201 payneeng@srv.net (208) 232-1435 FAX (208) 232-4439 PHONE Todd Payne, PE

USDA RURAL DEVELOPMENT Caldwell Office (208) 459-0761 ext 116 Dave Flesher, RD Specialist

GEOTECHNICAL ENGINEER (208) 376-4748 Kevin Schroeder, PG

DENTAL EQUIPT. SUPPLIER (DES) SULLIVAN-SCHEIN (208) 433-1852 Brent Davis

X-RAY EQUIPMENT SUPPLIER TURN-KEY MEDICAL, INC. (208) 888-1760 Willie Rowell

SURVEYOR FOX LAND SURVEYS, INC. (208) 342-7957 Tim Fox, Surveyor

SYMBOLS

BUILDING SECTION



1

101

A-000

DETAIL FINISH ELEVATION PLAN

\$ 200-0 ELEVATIONS INTERIOR

KEYNOTES WINDOW TYPES $\langle A \rangle$

WALL TYPES DOOR NUMBER

INTERIOR ELEVATIONS

EQUIPMENT, PURNISHING NO. (1)

ABBREVIATIONS

bove Finished Floor Back Splash Contractor Furnished Contractor Installed Cubic Feet per Minute Cast Iron Center Line
Ceiling
Concrete Masonry Unit
Clean Dut Column Concrete Continuous

Finish Foundation

Gypsum Board

Gallons Per Hinute

Face OF

Footing

EQ FF FIN FND FO

Asphalt Concrete

Construction Continuous Clean But To Grade Cold Water Dianeter Drawings Drain Waste Vent Electrical Contractor Electrical Equal or Equilivent

DFUI Top and Botton Tetephone Top of Tetevision TEL Typical UND Unless Noted Otherwise Vertical Vent Through Roof Vith

HORT7 Horizontal Hot Water HW MANER Manufacturer Mechan Ica I Minimum Not to Scale On Center
Dwner Furnished Contractor Installed
Dwner Furnished Owner Installed Dooosite Triented Strand Board Return Air Refrigerator Required Rim Joist Rough Opening Rotations Per Minute Telephone Truss Joist International Similar Structural

CODE ANALYSIS

GENERAL:

OCCUPANCY GROUP

NFPA 13 FIRE SPRINKLERS THROUGHOUT

BASIC ALLOWABLE AREA: 9000 SF INCREASE FOR SPRINKLERS OF 200% INCREASE FOR FRONTAGE OF 15% MAX ALLOWABLE AREA:

ACTUAL AREA

2000 INTERNATIONAL BUILDING CODE Latest Edition IPC Latest Edition IMC Latest Edition NEC 2000 INTERNATIONAL FIRE CODE 1985 NPA Life Safety IOI, ch. 26 Latest Edition UFAS and ADA/AG AIA ISBN 0-913962-96-1 Guideline

DESIGN LOADS:

See Structural Calcs, sheet 301 and following

I/WE HAVE REVIEWED THESE CONTRACT DOCUMENTS AND FIND THEM TO BE A COMPLETE STATEMENT OF OUR CONSTRUCTION REQUIREMENTS. WE UNDER-STAND THAT ANY MODIFICATIONS REQUESTED BY US AFTER THIS DATE MAY RESULT IN A CHANGE ORDER AFFECTING TIME AND/OR CONSTRUCTION COST

DATE

DRAWING INDEX

SITE DETAILS LANDSCAPE PLAN AN IRRIGATION NOTES IRRIGATION DETAILS PLAN AND SPECIFICATIONS

STRUCTURAL SPECS
ENERGY ANALYSIS — ENVELOPE
ARCHITECTURAL SPECS

S

ARCHITECTURAL SPECS AND FOUNDATION PLAN FOUNDATION DETAILS FLOOR PLAN DIMENSION/FINISH PLAN WALL ASSEMBLIES ROOF PLAN TYPICAL ROOF DETAILS TYPICAL ROOF DETAILS ROOF/WALL PANEL DETAILS ROOF/WALL PANEL DETAILS ROOF/WALL PANEL DETAILS ROOF/FALL PANEL DETAILS ROOF/WALL PANEL PANE ROOF FRAMING PLAN REFLECTED CEILING PLAN

4.00 EXTERIOR ELEVATIONS
4.10 EXTERIOR ELEVATIONS
5.00 BUILDING SECTIONS
5.10 TYPICAL WALL SECTION

WALL SECTION

WALL SECTIONS
WALL SECTIONS
DETAILS
DETAILS
DOOR/FRAME TYPES
WINDOW TYPES
DOOR/AMIDOW DETAILS
DOOR SCHEDULES

DOOR SCHEDULES
TYP. INTERIOR ELEVATION DETAILS
INTERIOR DETAILS
INTERIOR ELEVATIONS

13.01 X-RAY SPECS/DETAILS 13.02 X-RAY SPECS/DETAILS 13.03 XRAY SPECS/DETAILS 13.04 XRAY SPECS/DETAILS 13.05 XRAY SPECS/DETAILS 13.06 XRAY SPECS/DETAILS

P 0.0 PLUMBING LEGENDS & ABBREY.
P 0.1 PLUMBING SPECIFICATIONS P 0.2 PLUMBING SPECIFICATIONS P 0.3 PLUMBING SPECIFICATIONS 0.4 PLUMBING SCHEDULES
1.1.1 PLUMBING FLOOR PLAN
1.2 PLUMBING FLOOR PLAN

1.2 PLUMBING FLOOR PLAN 1.3 PLUMBING FLOOR PLAN 1.4 PLUMBING FLOOR PLAN 2.1 PLUMBING ROOF PLAN 3.1 PLUMBING DETAILS 3.2 PLUMBING DETAILS 3.3 PLUMBING DETAILS

EN 1.0 ENERGY ANALYSIS - MECH

1.2 RELIEF AIR FLOOR PLAN 2.1 HVAC ROOF PLAN 3.1 HVAC DETAILS M 4.1 MECH BUILDING SECTIONS

16.00 NOTES & SCHEDULES
16.01 ELECTRICA STE PLAN
16.10 FLOOR PLAN — LIGHTING
16.20 FLOOR PLAN — POWER
16.21 POWER RISER & SCHEDULES
16.23 ROOF/CRAM. SPACE PLANS
16.24 DENTAL EQUIPMENT PLAN
16.30 ELECTRICAL DETALS
16.40 ELECTRICAL SPECIFICATIONS
16.41 ELECT. COM—CHECK REPORT



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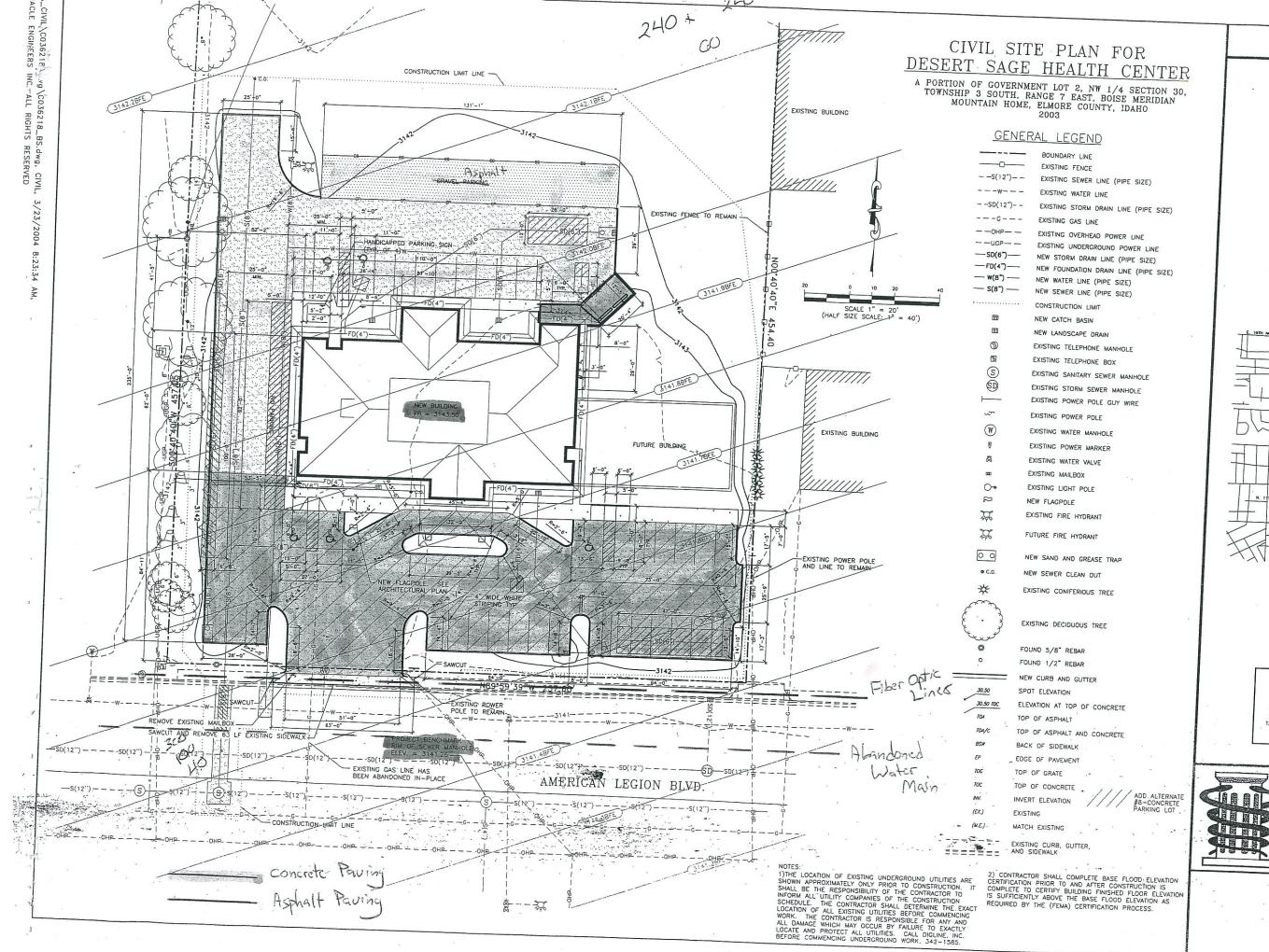


COVER SHEET

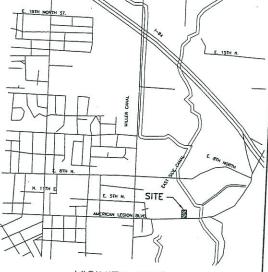
Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

1.00

SHEET







PINNACLE

SCALE: 1" = 1500'

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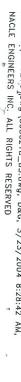
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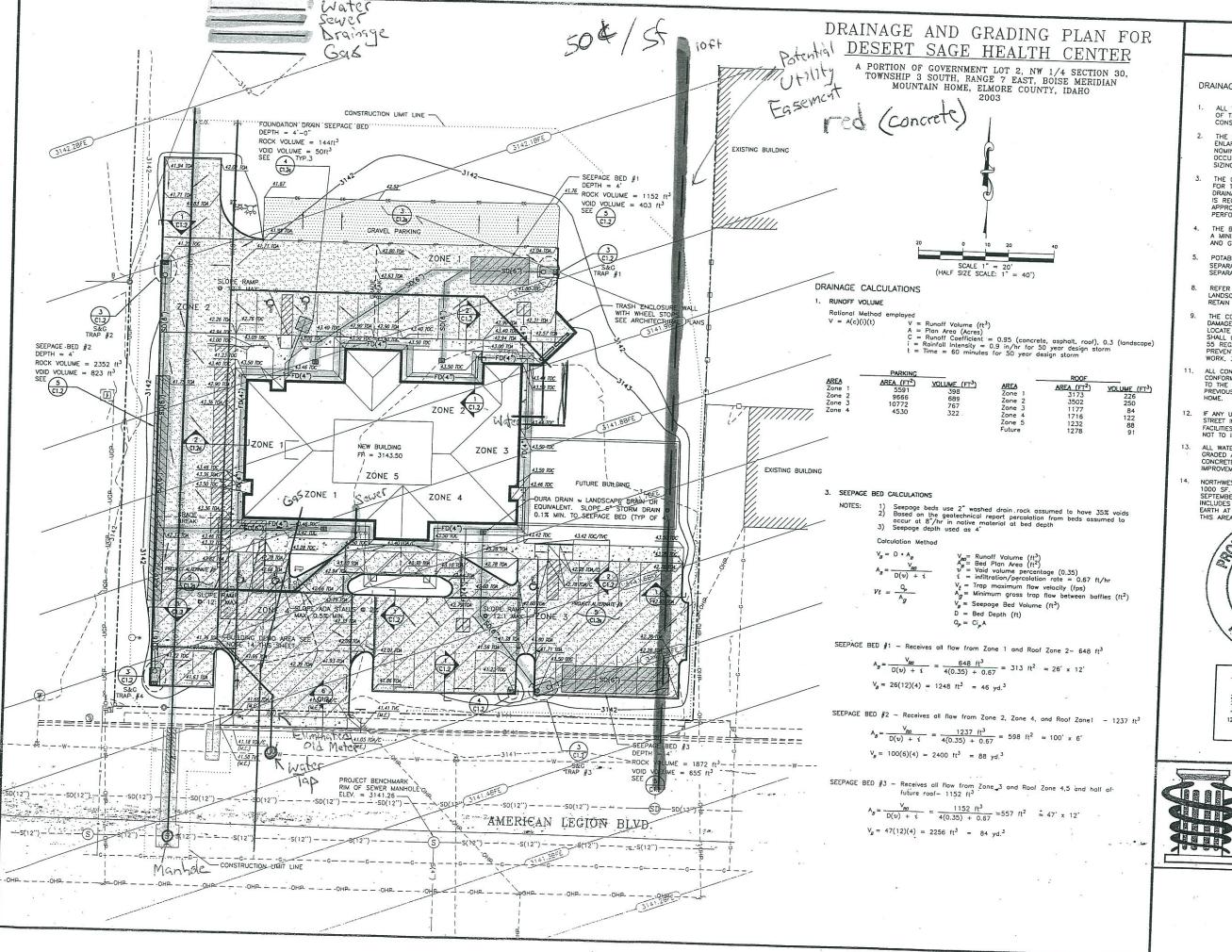
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CIVIL SITE

Desert Sage Her 2280 Americar Mountain





DRAINAGE NOTES:

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION.
- THE SIZE OF THE DRAINAGE TRENCH SHALL BE ENLARGED IF GROUND WATER IS ENCOUNTERED ABOVE NOMINAL SEEPAGE TRENCH DEPTH. IF THIS SITUATION OCCURS, CONTACT ENGINEER FOR NEW SEEPAGE BED SIZING.
- THE CONTRACTOR IS TO CALL CITY OF MOUNTAIN HOME ENGINEE FOR THE INSPECTION OF ALL CATCH BASINS AND DRAINAGE TRENCH CONSTRUCTION. 24 HOUR NOTICE IS REQUIRED. DRAINAGE FACILITIES WILL NOT BE APPROVED BY MOUNTAIN HOME UNLESS INSPECTION IS PERFORMED.
- THE BOTTOM OF DISPOSAL BEDS ARE TO PENETRATE A MINIMUM OF 12 INCHES INTO FREE DRAINING SAND AND GRAVEL MATERIALS.
- POTABLE WATER LINES SHALL MAINTAIN A 25' SEPARATION FROM DISPOSAL BEDS AND A 10' SEPARATION FROM SAND AND GREASE TRAPS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LANDSCAPING. FINISH GRADE LANDSCAPING TO RETAIN ALL RUNOFF ON SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MAY OCCUR BY FAILURE TO EXACTLY LOCATE AND PROTECT ALL UTILITIES. THE CONTRACTOR SHALL COMPLY WITH IDAHO CODE, CHAPTER 22, TITLE 55 REGARDING UNDERGROUND FACILITIES DAMAGE PREVENTION, CALL DIGLINE, INC. BEFORE COMMENCING WORK, 342–1585.
- ALL CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE ISPWC. NO EXCEPTION TO THE ISPWC WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING BY ITD AND CITY OF MOUNTAIN HOLE.
- IF ANY UTILITY OR IRRIGATION FACILITY INTERFERES WITH REQUIRED STREET IMPROVEMENTS, ALL SUCH UTILITIES OR IRRIGATION FACILITIES SHALL BE RELOCATED AT THE OWNER'S EXPENSE SO AS NOT TO INTERFERE WITH REQUIRED STREET IMPROVEMENTS.
- ALL WATER VALVES, BLOW-OFFS, AND MANHOLES SHALL BE GRADED AND PLACED SO AS NOT TO CONFLICT WITH ANY CONCRETE CURB AND GUTTER, VALLEY GUTTER, OR SIDEWALK IMPROVEMENTS.
- NORTHWEST TECHNOLOGIES (322–0757) REMOVED AN EXISTING 1000 SF. HOUSE WITH A PARTIAL BASEMENT FROM THE SITE IN SEPTEMBER 2003. WORK OF THIS CURRENT CONTRACT INCLUDES THE REMOVAL AND RE-COMPACTION OF THE EXISTING EARTH AT THE ORIGINAL HOUSE LOCATION. EXCAVATE SOILS IN THIS AREA AND RE-COMPACTION.



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DRAINAGE AND GRADING PLAN

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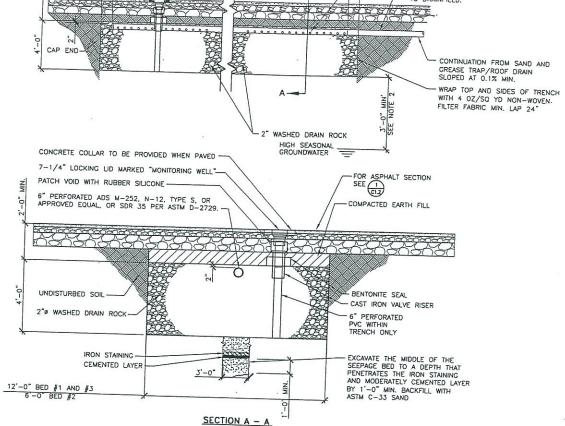
Dec 2003

NOTES:

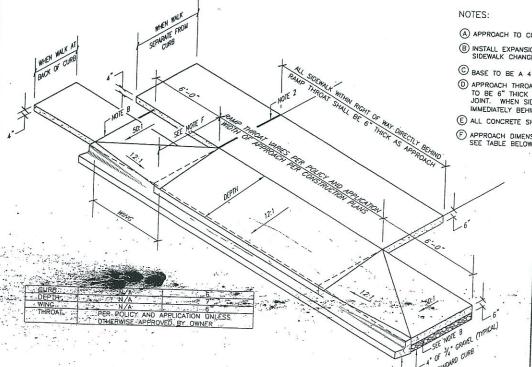
- IF GROUND WATER IS ENCOUNTERED WITHIN THREE FEET OF THE BOTTOM OF THE DRAIN ROCK LAYER CONTACT THE ENGINEER TO REVISE THE SEEPAGE BED DIMENSIONS.
- SEASONAL HIGH GROUND WATER AND FREE DRAINING MATERIAL ELEVATIONS ARE BASED UPON AVAILABLE CEOTECHNICAL INFORMATION AND MAY VARY FROM REPORTED VALUES.

6" DIA. PERFORATED ADS. M-252. N-12. TYPE 5. OR APPROVED EQUAL, OR SDR 35 PER ASTM, D-2729. 7-1/4" LOCKING LID MARKED "MONITORING WELL" - 6" DIA. ADS M-252, N-12, TYPE S, OR APPROVED EQUAL, SLOPED ⊕ 0.1% MIN. TO DRAINFIELD. CONTINUATION FROM SAND AND GREASE TRAP/ROOF DRAIN SLOPED AT 0.1% MIN.

6 | CONCRETE DRIVEWAY APPROACH (SD-710)



5 | SEEPAGE BED

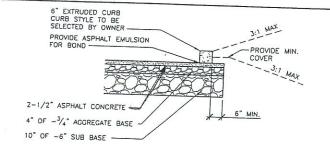


(A) APPROACH TO CONFORM TO THE LATEST ADA STANDARDS. $\ensuremath{(\overline{\mathbb{B}})}$ install expansion joint at tip of approach wings and where sidewalk changes thickness.

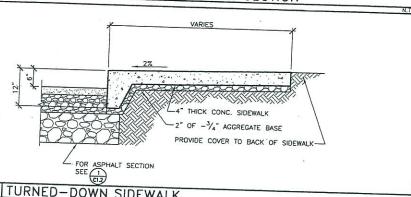
APPROACH THROAT WIDTHS SET BY POLICY AND APPLICATION. ALL CONCRETE
TO BE 6" THICK FROM TIP OF WING TO TIP OF WING UP TO THE EXPANSION
JOINT. WHEN SIDEWALK IS SEPARATE FROM CURB THE SIDEWALK
IMMEDIATELY BEHIND THE APPROACH THROAT SHALL BE 6" THICK ALSO.

4 INLET CATCH BASIN

 $\begin{picture}(60,0)\put(0,0){\line(0,0){100}}\put(0,0)$



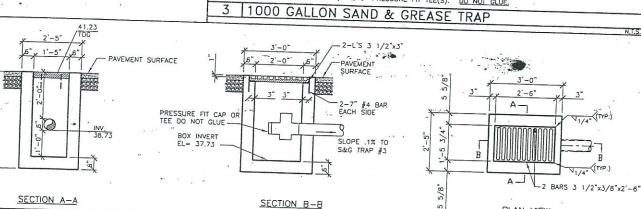
1 6" EXTRUDED CURB W/ ASPHALT SECTION



2 TURNED-DOWN SIDEWALK

					N.T.S.
SAND AND GRE	ASE TRAP	ELEVATION	SCHEDULE		38.65
TRAF # TOP OF GRATE TO	OP OF BOX	INV. IN	INV. OUT	BOX INV.	7
41.80	40.80	_	39.15	35.15	
2 41.25 3 41.50	40.25		38.60 /	34.58	+
4 41.22	40.50	38.59	~38:85°	34.83	1
	40.22	7	38.57	34.55	1
FOR MANHOLE COLLAR SEE ISPWC SD-616	1000	4	DD01#DE		
	3	8,70/	PROVIDE GRADE REQUIRED (12"	RINGS AS	
2's CAST IRON MANHOLE				000000000000000000000000000000000000000	
COVER AND FRAME PER ISPWC SD-617		/ _	2' CAST IRON I	MANHOLE COV	ER
		1. 1	AND FRAME PE	R ISPWC	0.000
EXTEND TOP PORTION		/	(SD-617/SD-6 WITH GRATED O	09/SD-610)	
OF TEE TO 2" BELOW S&G TRAP LID WITH	\				
6" DIAMETER PIPE	\ \ /	1 [TOP OF GRATE/ SEE SCHEDULE	LID	
O DIAMETER FIFE	/ /	1/			
TOTOTO I			The resident	and the second	
YOU YOU	芦	· =	- 2020	102020	
TOO 100	1201	24	Fix OC	7 100	
FOR ASPHALT SECTION				2000	- 1
	11		- 11	FROM INL	ET CATCH
TOP OF BOX	- 11	2.1	11/	BASIN TO	S&G TRAP #3
SEE SCHEDULE	11	12	711/		
1 1 1 1 1 1 1 1 1 1 1 1	$rac{1}{1}$	- *	<u> </u>		- 1
5" DIA. ADS (M-252/M-294).	111 11			8.72	
OUAL SLOPED # 0.1% MIN.	12-1	-4	11 7	VV. IN	- 1
O DRAINFIELD	1824		- 11		1
" INVERT OUT	11		11		1
EE SCHEDULE		Polyalar William Months de			-
OX INVERT					- 1
EE SCHEDULE		LAR-KEN 100	OO GAL. OR EQU	10 to 1 50 to 10 50 t	
		GREASE TRAP	WITH HS-25 F	NATED LIDS	O AND .
				01120 2103	1
NOTE: 1) EXTEND BOTTOM	PORTION OF	TFF(S) 12" P	EI OW	243	I
OUTLET INVERT.	· · · · · · · · · · · · · · · · · · ·	(5) 12 8	CLOW .		1
2) USE 6" PRESSUR	E FIT TFF(S)	DO NOT O	uc		
3 1000 CALLON CAND A		. DO NOT GE	UE		

PLAN VIEW





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DRAINAGE AND GRADING DETAILS

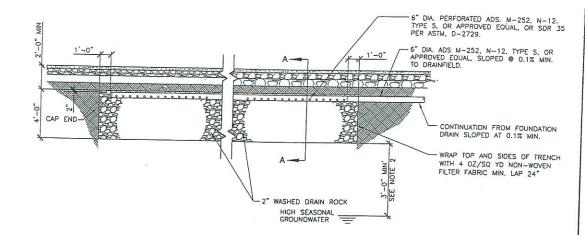
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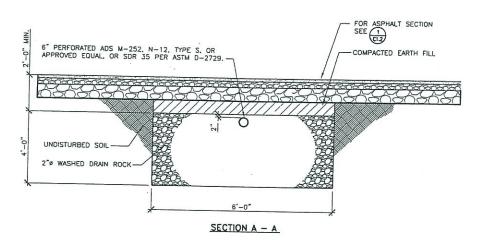
C1.2

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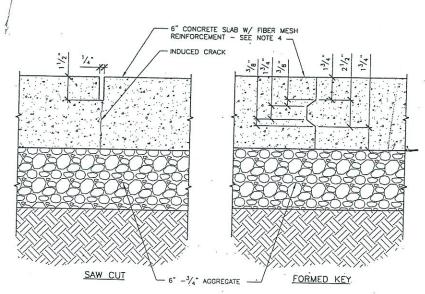
Dec 2003 | PLOTDATE 12/00/03

- IF GROUND WATER IS ENCOUNTERED WITHIN THREE FEET OF THE BOTTOM OF THE DRAIN ROCK LAYER CONTACT THE ENGINEER TO REVISE THE SEEPAGE BED DIMENSIONS.
- SEASONAL HIGH GROUND WATER AND FREE DRAINING MATERIAL ELEVATIONS ARE BASED UPON AVAILABLE GEOTECHNICAL INFORMATION AND MAY VARY FROM REPORTED VALUES.





4 FOUNDATION DRAIN SEEPAGE BED



- NOTES:

 13 Part : CONTROL JOINT SPACING IS 391-0" G.C. ENCH WAY

 2) CONTRACTORS OPTION TO USE EITHER SAWED OR FORMED JOINT.

 - 3) SAW CUT TO BE MADE WITHIN 24 HRS
 - 4) FIBERMESH FIBERS ARE COLLATED FIBRILLATED POLYPROPYLENE OLEFIN FIBERS OR EQUAL 3/4 INCH IN LENGTH. ADD FIBERMESH FIBERS AT A MINIMUM RATE OF 1.5 lbs/cu. yd.
 - 5) REFER TO THE GEOTECHNICAL REPORT REGARDING EXISTING CLAY SOIL REMOVAL AND SITE PREPARATION.

5 6" CONCRETE @ PARKING SECTION WITH CONTROL JOINT - ADD ALTERNATE #8

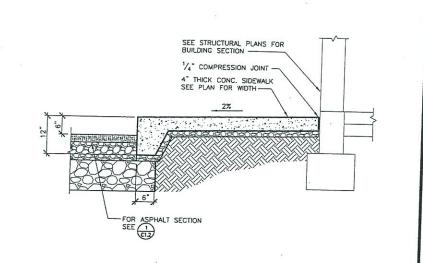
3 GRAVEL SECTION

R=1/8" --NO. 8 DEFORMED TIE BARS 15" LONG AT 12" O.C.

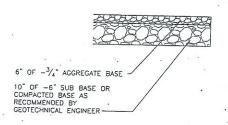
> TIED TRANSVERSE CONSTRUCTION JOINT ALTERNATIVE - TYPE D

NOTE: MATCH NEW TO EXISTING CONCRETE AND GRAVEL BASE DIMENSIONS

1 | CONCRETE PAVEMENT JOINTING (SD-714A)



2 TURNED-DOWN SIDEWALK AT BUILDING FOUNDATION





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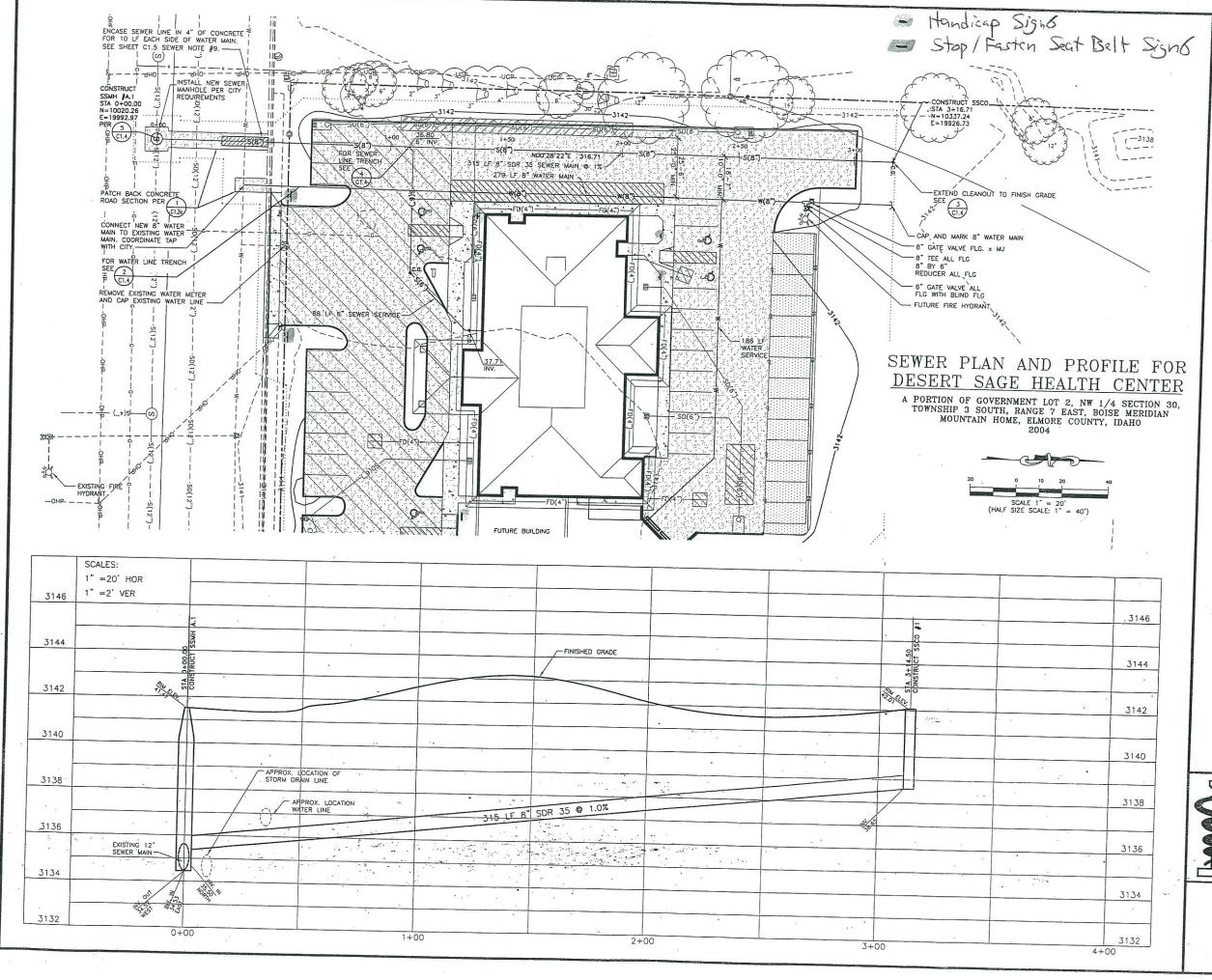
DRAINAGE AND GRADING DETAILS

Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

C1.2a

SHEET

Dec 2003 PLOTDATE 12/00/03



UTILITY NOTES:

- Any fire service shall be sized and installed by the fire service contractor.
- 2. The contractor shall install a reduced pressure backflow assembly (RPBA) for each water or fire service entering the building.
- Refer to the mechanical plans for the water and/or fire service connection(s) at the building and for backflow protection. Coordinate with the water company for taps and metering.
- 4. For thrust blocking see detail 1 sheet C1.5
- Verify the sewer connection at the building with the mechanical plans.
- The gas service shall be sized and installed by the plumbing contractor and/or gas company.
- The power transformer and service lines (primary and secondary) shall be sized and installed by the electrical engineer, electrical contractor, and/or power company. Refer to the electrical plans for further details.
- 8. See sheet C1.5 for utility details.
- If any utility or irrigation facility interferes with required street improvements, all such utilities or irrigation facilities shall be relocated at the owner's expense so as not to interfere with required street improvements.
- All water valves, blow-offs, and manholes shall be graded and placed so as not to conflict with any concrete curb and gutter, valley gutter, or sidewalk improvements.
- All construction within the public right-of-way shall conform to the latest edition of the I.S.P.W.C. specifications. No exceptions to district policy, standards, or the I.S.P.W.C. will be allowed unless specifically and previously approved in writing by the district.
- 12. See Architectural and mechanical plans for Pressure
- New water meter to be remote read per City of Mountain Home.
 See Mechanical plans for placement of meter.







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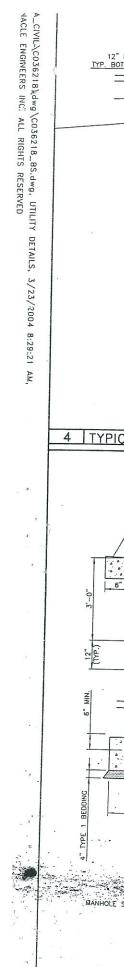
SEWER PLAN AND PROFILE

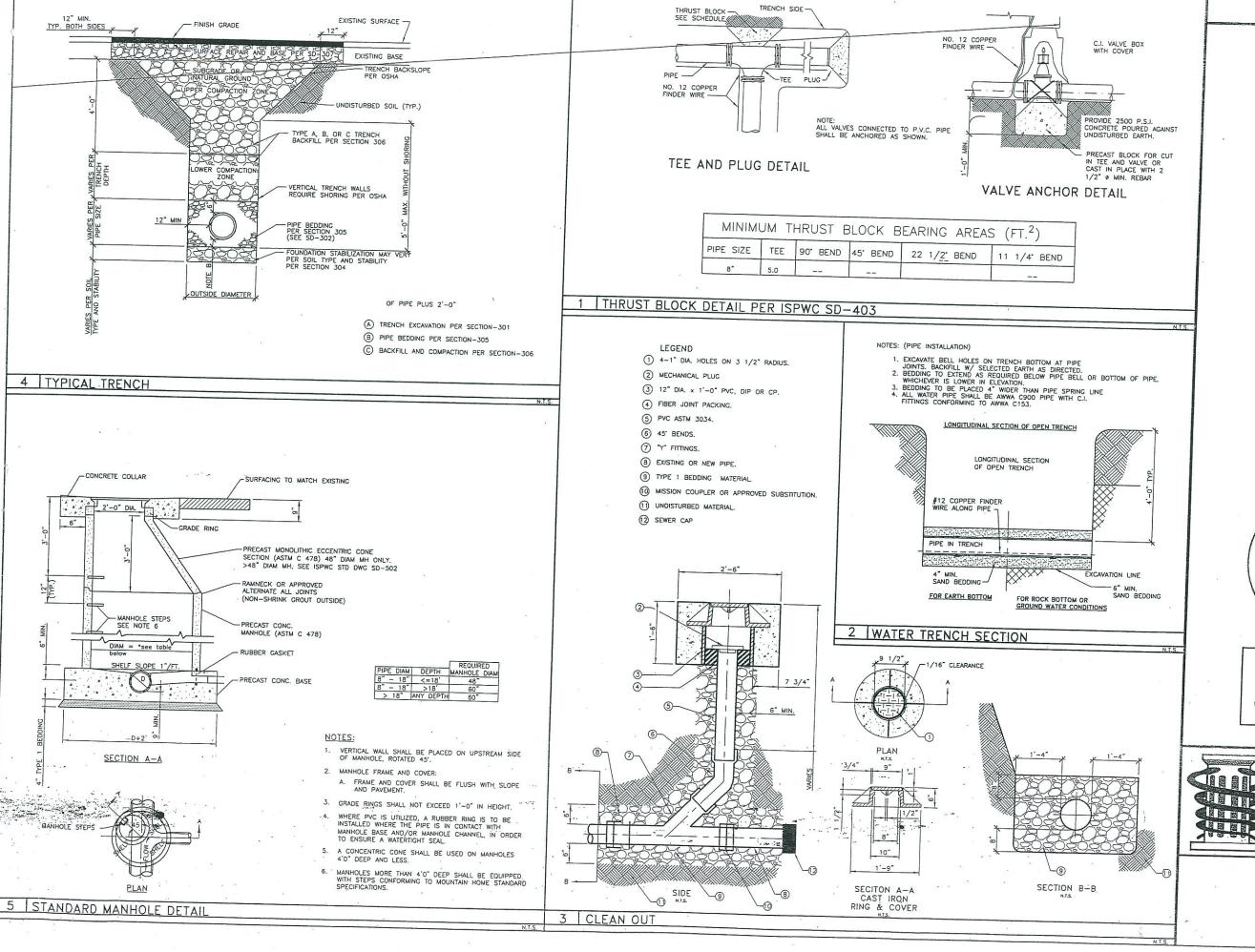
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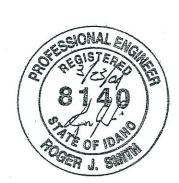
C1.3

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UTILITY DETAILS

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C1.4

SHEET

Dec 2003 | PLOTDATE 12/00/03

GENERAL

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN APPROXIMATELY ONLY PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL UTILITY COMPANIES OF THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL DEFERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MAY OCCUR BY FAILURE CALL DIGLINE INC. BEFORE COMMENCING UNDERGROUND WORK, 342-1585.
- 2. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (I.S.P.W.C.), AND /OR THE REQUIREMENTS OF THE IDAHO DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS ABOVE AND BELOW GROUND REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS WORK INCLUDES CLEARING AND GRUBBING, WHICH INCLUDES CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS AND /OR WEEDS. FENCES, STRUCTURES, DEBRIS, RUBBISH, AND OTHER MATERIAL NOT SUITABLE FOR THE FOUNDATION OF PAVEMENTS AND OTHER STRUCTURES. ALL MATERIAL NOT SUITABLE FOR THUTHE USE ON—SITE SHALL BE DISPOSED OF OFF—SITE AT AN APPROVED LOCATION.
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY DEVICES AND TRAFFIC CONTROL AROUND AND WITHIN THE CONSTRUCTION AREA.
- ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCY OR AS SET FORTH WITHIN, WHICHEVER IS MOST RESTRICTIVE. PROOF THAT ALL MATERIALS USED ON THIS PROJECT MEET THE REQUIREMENTS ABOVE MUST BE PROVIDED AT THE REQUEST OF THE AGENCY AND/OR THE ENGINEER
- ALL UNDER GROUND UTILITIES AND SERVICE LINES SHALL BE INSTALLED PRIOR TO STREET CONSTRUCTION.
- ALL COSTS OF RETESTING FOR PREVIOUSLY FAILED TESTS, IF REQUIRED . SHALL BE BACK CHARGED TO THE RESPONSIBLE CONTRACTOR BY THE OWNER.
- ALL COSTS INCURRED BY THE CONTRACTOR FOR CORRECTING DEFICIENT WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO PERFORMED THE WORK, FAILURE TO CORRECT DEFICIENT WORK WILL BE CAUSE FOR ISSUANCE OF A STOP WORK ORDER
- 10. ALL WORK SUBJECT TO APPROVAL BY ANY POLITICAL AGENCY OR GOVERNING AGENCY MUST BE APPROVED PRIOR TO (1) PLACING OF CONCRETE, (II) PLACING OF AGGREGATE BASE, (III) PLACING OF ASPHALT PAYING, (IV) BACKFILLING TRENCHES. WORK PERFORMED WITHOUT SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK TO THE REQUIRED STANDARDS.
- 11. STANDARD DRAWING NUMBERS, REFERENCED IN THESE NOTES, WHICH BEGIN WITH "SD" ARE FROM THE I.S.P.W.C. STANDARD DRAWINGS (2003 ED.).
- THE CONTRACTOR IS TO ENSURE THAT THE LATEST REVISIONS OF CONSTRUCTION DRAWINGS ARE USED. CONTACT ENGINEER FOR VERIFICATION PRIOR TO COMMENCING CONSTRUCTION.

SEWER NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2003 SEWER SPECIFICATIONS AND STANDARD DRAWINGS OF IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (I.S.P.W.C.).
- FINAL APPROVAL AND ACCEPTANCE OF ALL SEWER CONSTRUCTION WILL BE BY THE MOUNTAIN HOME PUBLIC WORKS DEPARTMENT.
- SEWER PIPE WITH COVER OF GREATER THAN 3 FEET, SHALL BE BELL AND SPIGOT, POLYMNYL CHLORIDE (PVC), SDR 35, ASTM D-3034 AS SET FORTH BY THE MOUNTAIN HOME PUBLIC WORKS DEPARTMENT.
- SEWER INSPECTIONS WILL BE BY THE MOUNTAIN HOME PUBLIC WORKS DEPARTMENT AND THEIR DECISIONS SHOULD BE CONSIDERED AS FINAL. SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER. THE CONTRACTOR WILL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT 4B HOURS PRIOR TO CONSTRUCTION. THE CITY OF MOUNTAIN HOME WILL PRENIODIC INSPECTIONS FOR AN EIGHT—HOUR DAY, FROM 8:00 A.M. TO 5:00 P.M., FOR A FORTY HOUR WEEK, THE CONTRACTOR SHALL REIMBURSE THE CITY AT RATES ESTABLISHED BY THE CITY FOR INSPECTION IN EXCESS OF THE NORMAL WORK WEEK, INCLUDING LEGAL HOLIDAYS, OVERTIME INSPECTION RATES AND A LIST OF LEGAL HOLIDAYS.
- SERVICE LINES SHALL BE MARKED IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DRAWING SD 512. SERVICE LINE MARKERS SHALL REMAIN IN PLACE DURING CONSTRUCTION AND BE PRESENT FOR FINAL INSPECTION.
- PRIOR TO FINAL ACCEPTANCE, AFTER ALL UTILITIES ARE IN AND PRIOR TO PAVING, AN AIR TEST SHALL BE CONDUCTED. THE CONTRACTOR SHALL CONTACT THE CITY OF MOUNTAIN HOME A MINIMUM OF 24 HOURS PRIOR TO TESTING.
- THE SEWER CONTRACTOR SHALL SUPPLY ALL LID ASSEMBLIES AND THE REQUIRED NUMBER OF RISER AND GRADE RINGS. THE SEWER CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF THE TOP OF THE MANHOLE CONE TO ASSURE THAT RING ELEVATIONS MATCH FINAL STREET GRADES. THE MAXIMUM HEIGHT OF THE GRADE RINGS SHALL BE SUCH THAT THE FINISH GRADE ELEVATION OF THE MANHOLE FRAME AND COVER SHALL NOT BE MORE THAN TWENTY-ONE (21") INCHES ABOVE THE TOP OF THE MANHOLE
- THE PAVING CONTRACTOR SHALL SET THE GRADE RINGS AND POUR THE CONCRETE COLLARS PER IDAHO DEPARTMENT OF TRANSPORTATION STANDARDS. THE PAVING CONTRACTOR SHALL CONTACT IDAHO DEPARTMENT OF TRANSPORTATION 48 HOURS PRIOR TO POURING CONCRETE COLLARS.
- THE HORIZONTAL SEPARATION OF THE WATER AND SEWER MAINS SHALL BE A MINIMUM THE HORIZONTAL SEPARATION OF THE WATER AND SEWER MAINS SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR SEWER AND WATER TO CROSS EACH OTHER AND THE SEWER LINE IS LESS THAN 18 INCHES BELLOW OR ABOVE THE WATER MAIN, THE SEWER LINE CROSSING SHALL BE P.V.C. PRESSURE PIPE CONFORMING TO AWYA C -900 OR ASTN 02241. FOR A DISTANCE OF 10' ON BOTH SIDES OF WATER LINE. ONE FULL LENGTH OF BOTH WATER MAIN AND SEWER LINE SHALL BE CENTERED OVER THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE. IN LIEU OF CONSTRUCTING OR RECONSTRUCTING THE SEWER TO CONFORM TO WATER MAIN STANDARDS, THE WATER LINE OR SEWER LINE OR BOTH MAY BE FNCASED IN FOUR (4) INCHES OF CONCRETE. MEASURED AT THE BELL FOR A BE ENCASED IN FOUR (4) INCHES OF CONCRETE, MEASURED AT THE BELL FOR A DISTANCE OF 10' ON BOTH SIDES OF THE WATER LINE.
- GROUNDWATER LEVELS SHALL BE MAINTAINED BELOW THE BOTTOM OF THE TRENCH DURING THE PIPE LAYING AND PIPE JOINING OPERATIONS.
- 11. THE TRENCH BACKFILL ABOVE THE PIPE ZONE WILL BE INSPECTED BY THE IDAHO DEPARTMENT OF TRANSPORTATION OR BY THE OWNER'S ENGINEER IN ACCORDANCE WITH THE LATEST EDITION OF THE "CONSTRUCTION QUALITY ASSURANCE MANUAL." COMPACTION TESTS ARE REQUIRED IN THE BACKFILL ABOVE THE PIPE ZONE, WITHIN PUBLIC RIGHTOF-WAY, ACCORDING TO IDAHO DEPARTMENT OF TRANSPORTATION REQUIREMENTS AND THE RESULTS SHALL BE SUBMITTED TO MOUNTAIN HOME PUBLIC WORKS DEPARTMENT AND IDAHO DEPARTMENT OF TRANSPORTATION PRIOR TO FINAL ACCEPTANCE.
- 12. ALL STATIONING RELATES TO THE GRAVITY SEWER CENTERLINE.
- 13. THE SEWER MAIN SHALL BE TESTED FOR DEFLECTION IN ACCORDANCE WITH THE I.S.P.W.C..
- 14. THE MOUNTAIN HOME PUBLIC WORKS DEPARTMENT MAY TEST THE COMPACTION OF THE SEWER PIPELINE BEDDING. TESTING WILL BE DONE BY AN INDEPENDENT TESTING LABORATORY. THE COST OF THE FIRST TEST WILL BE PAID BY THE MOUNTAIN HOME PUBLIC WORKS DEPARTMENT. IF THE FIRST TEST FAILS TO MEET REQUIRED COMPACTION. ALL RE-TESTING SHALL BE PAID BY THE SEWER CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE MOUNTAIN HOME PUBLIC WORKS DEPARTMENT AND/OR TESTING LABORATORY TO SCHEDULE THE TESTS PRIOR TO ANY PIPE LAYING AND BACKFILLING.
- 15. SEWER CONSTRUCTION WILL MEET SPECIFIC DETAILS AND REQUIREMENTS OF THE FOLLOWING IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION AND THE IDAHO DEPARTMENT OF TRANSPORTATION STANDARDS:
 - STANDARD MANHOLE TYPE A, DRAWING NO. SD-501.
 DROP MANHOLE, DRAWING NO. SD-504.
 MANHOLE COLLAR DETAIL, DRAWING NO. HD-508.
 MANHOLE COVER & FRAME, DRAWING NO. SD-507.
 SEWER SERVICE MARKER, DRAWING NO. SD-512.
- 16. THE CONTRACTOR SHALL LEAVE THE EXCAVATION FOR THE UPSTREAM END OF ALL THE CONTRACTOR SHALL LEAVE THE EXCAVATION FOR THE UPSTREAM END OF ALL SERVICE LINES OPEN FOR FIELD VERIFICATION OF THE INVERT ELEVATION BY THE CITY'S INSPECTOR. THE CONTRACTOR SHALL NOT BACKFILL THE ENDS OF SERVICE LINES UNTIL HE HAS OBTAINED APPROVAL FROM MOUNTAIN HOME'S INSPECTOR OR MADE OTHER ARRANGEMENTS FOR THE VERIFICATION OF SERVICE LINE INVERT ELEVATIONS.
- 17. THE CONTRACTOR SHALL PROVIDE MOUNTAIN HOME INSPECTOR WITH "CUT SHEETS" FOR THE STAKING PROVIDED FOR CONSTRUCTION OF THE SANITARY SEWER. "CUT SHEETS" SHALL BE PROVIDED TO THE CITY PRIOR TO CONSTRUCTION. ADDITIONALLY, TEMPORARY BENCHMARKS MUST BE PROVIDED TO THE MOUNTAIN, HOME'S DEPARTMENT OF PUBLIC WORKS, INSPECTION DEPARTMENT, BY THE OWNER, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 18. THE CONTRACTOR SHALL INSTALL A REMOVABLE PLUG UPSTREAM OF SSMH A-1 THIS PLUG SHALL REMAIN IN PLACE DURING CONSTRUCTION UNTIL FINAL ACCEPTANCE OF THIS SEWER PROJECT. THE CONTRACTOR SHALL CONSTRUCT THE SANITARY SEWER IN ACCORDANCE WITH THE STAMPED PLANS APPROVED BY THE MOUNTAIN HOME PUBLIC WORKS DEPARTMENT. THESE PLANS WILL BE PROVIDED TO THE CONTRACTOR BY THE PROJECT INSPECTIOR PRIOR TO CONSTRUCTION. WORK SHALL NOT BE DONE WITHOUT THE CURRENT SET OF APPROVED PLANS.

- THE WATER SYSTEM SHALL BE CONSTRUCTED TO CONFORM WITH THE STANDARDS SET FORTH IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS", AND CITY OF MOUNTAIN HOME WATER STANDARD SPECIFICATIONS AND DRAWINGS.
- WATER DISTRIBUTION MAINS SHALL BE CONSTRUCTED WITH ASTM D2241, CLASS 200 OR AWWA C-900 CLASS 150 PIPE. THE PIPE SHALL BE INSTALLED IN WORKMANLIKE MANNER BY PERSONS PROPERLY QUALIFIED TO PERFORM SAID WORK AND SHALL BE IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS APPROVED BY THE DISTRICT ENGINEER. ALL WORK AND MATERIALS MUST CONFORM TO CURRENT REQUIREMENTS OF THE I.S.P.W.C.
- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 4B INCHES. AFTER INSTALLATION OF THE WATER MAINS, THE TRENCHES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY TO PREVENT FURTHER SETTLEMENT. ALL MAINS SHALL BE LEAK—TESTED. FLUSHED AND SANITIZED BEFORE CONNECTING WITH THE MUNICIPAL SYSTEM.
- WHERE IT IS NECESSARY FOR SEWER AND WATER TO CROSS EACH OTHER, REFER TO NOTE NO. 9 UNDER SEWER NOTES.
- ALL GATE VALVES SHALL BE FLANGED AND/OR M.J. AND SHALL CONFORM TO AWWA C-153 SPECIFICATIONS AND SHALL HAVE A 200 P.S.I. WORKING PRESSURE RATING. ALL VALVES SHALL BE ANCHORED IN CONFORMANCE WITH THE DETAIL SHOWN IN THE LS.P.W.C. AND THE CONSTRUCTION DRAWING DETAILS.
- ALL TEES, PLUGS, CAPS AND BENDS, AND AT OTHER LOCATIONS WHERE UNBALANCED FORCES EXIST, SHALL BE SECURED AND ANCHORED BY SUITABLE THRUST BLOCKING AS SHOWN IN THE DETAILS.
- NO. 12 DIRECT BURIAL WIRE SHALL BE PLACED ALONG THE NORTH AND EAST SIDE OF WATER MAINS AND SERVICE LINES. WIRE SHALL BE TAPED TO CATE VALVE SO IT IS ACCESSIBLE FROM ABOVE BUT DOES NOT INTERFERE WITH VALVE OPERATION.
- ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO THE AWWA C651-92 SPECIFICATIONS, LATEST EDITION.
 - (A) THE DISTRIBUTION SYSTEM SHALL BE PRESSURE TESTED TO 150 P.S.I. TO THE SATISFACTION OF THE WATER DISTRICT. LEAKAGE SHALL NOT EXCEED .0331 GAL. PER INCH DIAMETER PER HR PER JOINT.
 - (B) PRIOR TO USE OF THE PIPE LINE, IT SHALL BE DISINFECTED ACCORDING TO SPECIFICATIONS TO AWWA C651-92 AND THEN FLUSHED. THE DISINFECTION AND FINAL FLUSHING PROCEDURE SHALL BE TESTED TO DETERMINE IF THE APPROPRIATE MINIMUM CHLORINE (CL2) RESIDUALS HAVE BEEN EXCEEDED. DISINFECTION REPORTS FROM A CERTIFIED LABORATORY ARE REQUIRED.
- CONTRACTOR SHALL NOTIFY THE OWNER THREE (3) WORKING DAYS BEFORE INITIAL CONSTRUCTION BEGINS AND SHALL ALSO REQUEST ENGINEER'S INSPECTION OF WATER LINES AND APPURTENANCES TWENTY-FOUR (24) HOURS IN ADVANCE OF BACKFILLING.
- CONTRACTOR TO FIELD VERIFY ALL VALVE BOX LID ELEVATIONS TO ASSURE THAT SAID LID ELEVATIONS MATCH FINAL STREET GRADE.
- WATER MAIN CONSTRUCTION SPECIFICATION SHALL BE AS DIRECTED BY THE CITY OF MOUNTAIN HOME.
- VALVES FLANGED OR M.J. SHALL BE LOCATED IN THE STREET. ALL GATE VALVES SHALL BE SET AS CLOSE (FLANGE CONNECTED) AS POSSIBLE TO MAIN LINE FITTINGS.
- 13. UPON THE COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT A SET OF AS-BUIT PLANS TO THE OWNER FOR SUBMITTAL TO THE CITY OF MOUNTAIN HOME.
- THE CONTRACTOR MAY PRESSURE TEST ALL WATER LINES AFTER DISINFECTION AND FLUSHING, BUT PRIOR TO INSTALLATION OF OTHER UTILITIES. AFTER ALL UTILITIES ARE INSTALLED AND PRIOR TO PAVING THE CONTRACTOR SHALL PERFORM A FINAL PRESSURE TEST WITH THE CITY OF MOUNTAIN HOME WATER ENGINEER OR THEIR REPRESENTATIVE IN ATTENDANCE. THE CONTRACTOR SHALL FURNISH ALL PERSONNEL AND EQUIPMENT NECESSARY TO CONDUCT THE TEST.
- ALL WATER VALVES AND BLOW-OFFS SHALL BE PLACED SO AS NOT TO CONFLICT WITH CURB, GUTTER, SIDEWALK, OR OTHER REQUIRED STREET IMPROVEMENTS.







Medical Design Group Architecture for Health Care

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GENERAL NOTES

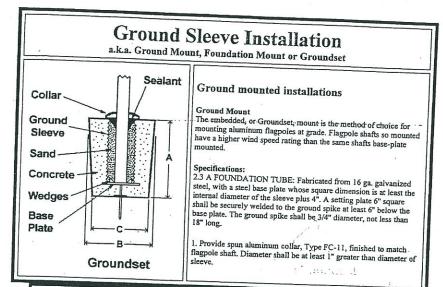
Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

SHEET C1.5

Dec 2003 | PLOTDATE 12/00/03

GENERAL NOTES





Groun	nd Sleeve Spec	cifications	engineer by a resident		~1. · · · · · · · · · · · · · · · · · · ·
	oundation Dimensi				
HEIGHT	BUTT DIAMETER	SLEEVE DIAMETER	DEPTH A	DEPTH B	DEPTH C
20'	4"	6"	3' 6"	30"	24"
20'	5"	8"	3' 6"	30"	24"
25'	5"	8"	3' 6"	30"	·- 24"
25'	5.5" - 6"	10"	3' 6"	30"	24"
30'	5"	8"	3' 6"	30"	24"
30'	6"	10"	3' 6"	30"	24"
35'	5"	8"	·· 4' 0''··	·· 36"·· .	·- 30"

http://www.flagpoles.com/cgroundsleeve.html

2/26/2004

Sentry Flagpole Specifications

	C1-0			7				
	Exposed Height (feet)	Dia	Shaft imeter nch)	Maximum Wall Thickness	Unflagged	Recommended Flag Size	Flagged Windspeed	Concord Continental Catalog
	0 16	Base	Тор	(inch)	(mph) (feet)		(mph)	- Part Number
	20	5	3	.125	255	5x8	120+	S20050125
	20	5	2	.188	316	5x8	120+	S20050123
	25	5	3	.125	154 "	- '5x8 "	105 "	S25050125
L	25	5	3	.156	201	5x8	120	S25050125
L	25	6	3.5	.156	195	5x8	120+	S25060156
L	25	6	3.5	.188	222	5x8	120+	
L	30	5	3	.125	110 "	· 6x10 ··		S25060188
	30	5	3	.156	126	6x10	85	S30050125
F	30	- 6	3.5	.156	195		95	S30050156
F	30	6	3.5			6x10	120	S30060156
F	35			.188	222	6x10	120+	S30060188
F		5	3	.156	100	6x10 "	80	S35050156
L	35	6	3.5	.156	129	6x10	95	S35060156
L	35	7	3.5	.156	184	6x10	120	S35070156
L	35	7	3.5	.188	209	6x10	120	
L	40	7	3.5	.156	138	8x12		S35070188
						OAIL .	93	S40070156

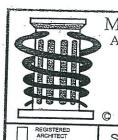
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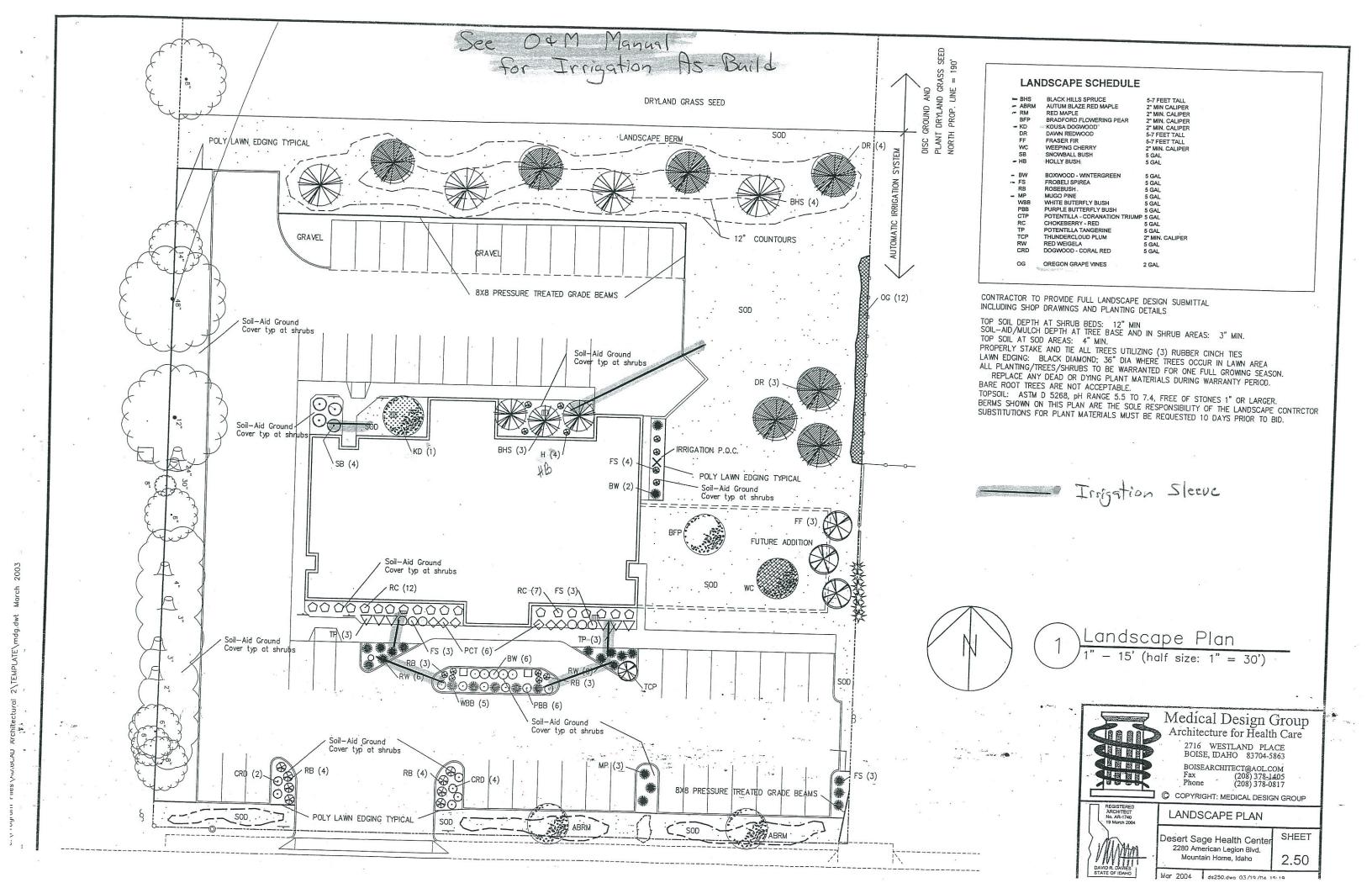
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SITE DETAILS

Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

2.45

SHEET



Valves Piping

Sprinklers

· Accessories

Wiring

Furnish and Install an underground sprinkler irrigation system to provide imgation of the lawn and planing areas. The work shall cnosist of providing and installing all material necessary for a complete system including pipe, valves, fittings, heads, automatic contol equipment and all essary for the installation of a satisfactorily operating system.

Supply Piping: Piping from water source to connections to imagation system pressure piping. Piping is under same pressure as water supply. Supply piping is not included in the work of this section.

Pressure Piping: Piping downstream from supply piping to and including control valves. Piping is under irrigation system pressure. Pressure piping includes backflow preventers.

Circuit Piping: Piping downstream from control valves for control water

flow to irrigation system zone. Control Valve: Automatic (electrically operated) valve for control water flow to imigation system zone.

v. Drain Valve: Manual drain valve for draining of main pressure line.
SYSTEM PERFORMANCE: 100 percent coverage.

d. SUBMITTALS

Product data Wiring Diagrams

Complete shop drawings showing location of all main and lateral lines and sizes, POC, sprinkler heads and type, valves with associated GPM, automatic controller and type, sleeve locations and wiring.

Complete as-built drawings and operation and mainter e. QUALITY ASSURANCE Comply with requirements of utility supplying water for backflow

prevention.

ii. Minimum water coverage in turf and planter areas: 100 percent.
f. PROJECT CONDITIONS

Page 1 of 6

unit on inlet and outlet. 2" and smaller may be ball valves e. VALVES

General: Valves are for general-duty and underground applications. f. CONTROL VALVES

Key operated manual Isolation and Control Valves: MSS SP-80, Class 125, globe valves, fitted for key operation.

Automatic Control Valves: Diaphragm-type normally closed, with manual

flow adjustment and operated by 24 volt ac solenoid.

Quick Couplers: Factory fabricated 2-piece assembly. Include coupler

water seal valve, removable upper body with spring loaded or weighted, rubber-covered cap, hose swivel with ASME B1.20.7, 3/4-11.5NH threads Control Valve Box and Cover: Thermo-plastic valve boxes with lockable, snap-top lids. Max: 2 valves per box.

(1) Drainage backfill: Cleaned gravel or crushed stone, graded from 3 inch max: to 3/4" min.

Service Boxes for Key-Operated Control Valves: Include valve key, 48 inches long with tee handle and key end to fit vaive.

Manufacturer's standard sprinklers designed to provide uniform coverage over entire area of spray shown on Drawings at available water pressure,

Housing: Plastic
Pop-up Spray: Fixed pattern with screw-type flow adjustment and

stainless-steel reaction spring.
Pop-Up, Rotary Spray, Gear Drive, full-circle and adjustable part

h. AUTOMATIC CONTROL SYSTEM

Low-voltage controller system made for control of irrigation system automatic control valves. Controller operates on 120 volts ac building

power system, provides 24 voltes ac power to control valves and includes stations for at least required number of control valves. Exterior Control Enclosures: Weatherproof enclosure with locking cover and (2) matching keys. Comply with NFPA 70 and NEMA 250, Type 4 and include provision for grounding.

Material: Stainless Steel

Mounting: Controller mounted in a stainless steel pedestal on concrete

Transformer: Internal-type and suitable for converting 120 volts ac

building power to 24 volts ac power.

Controller Stations: Each station is variable from approximately 1 to 60 minutes. Include switch for manual or automatic operation of each

Timing Device: Adjustable 24 hour, 14 day clock to operate any time of Include provision for the following settings:

c. PAVING WORK

Install piping in sleeves where crossing sidewalks, roadways and parking

ii. Install piping sleeves by boring under existing paving where possible.
 d. PIPING APPLICATIONS

(1) 3 inch and smaller. Class 200 PVC plastic pipe, Schedule 80 PVC plastic, socket -type pipe fittings and solvent free cemented joints.

4 inch and larger. Class 160 PVC plastic pipe, Schedule 80 PVC plastic, socket -type pipe, fittings and solvent free cemented joints. Circuit Piping and Sleeves

(1) All sizes: Class 200 PVC plastic pipe, Schedule 40 PVC plastic socket-type fittings and solvent-cement joints.

Install components having pressure rating equal to or greater than system operation pressure.

Install piping free of sage and bends.

Locate groups of pipes to permit valve servicing.

(1) Install unions adjacent to each valve and at final connection to each piece of equipment

Install underground PVC piping according to ASTM D 2774

Install underground PVC piping according to ASTM D 27/4
Lay piping on solid subbase without dips or depressions.
Install PVC piping in dry weather 40 degrees F or above for a period of at least 24 hours after pipe installation.
Install piping under sidewalks and paving in sleeves.

Pressure piping: 18 Inches

Circuit piping: 12 inches Sleeves: 18 inches.

(3) Sleeves: 18 inches Lateral Line Pipe Sizing:

3/4" pipe not to exceed 10 GPM 1" pipe not to exceed 16 GPM 1 1/4" pipe not to exceed 26 GPM 1 1/4" pipe not to exceed 35 GPM

2" pipe not to exceed 55 GPM

2 1/2" pipe not to exceed 80 GPM 3" pipe not to exceed 120 GPM

g. VALVES AND BACKFLOW PREVENTION

having jurisdiction (AHJ).

Install valves in valve control boxes - max (2) valves per box.

Install backflow preventers of type, size and capacity required. Include valves, and test cocks. Install according to plumbing code and authorities

Do not install a bypass around the backflow preventer

Page 5 of 6

Ferform site survey, research public utility records, and verify existing

unity locations.

The project shall be designed for 50 PSI static water pressure and 35 GPM. Contractor to very exact pressures and adjust the system pipe sizes and zoning accordingly.
g. SEQUENCING AND SCHEDULING

Maintain uninterrupted water service to building during normal working hours. Arrange for temporary water shut off with owner. h. EXTRA MATERIALS

Deliver the following to the owner:

(1) quick coupler 10% of sprinklers

(2) valve keys

(2) quick coupler hose swivels
 (2) quick coupler operating keys

i. WARRANTY Irrigation contractor shall correct without dealy, at the contrctor's expense. any rouble that develops with the system due to faulty workmanship or materials during one (1) year after final acceptance of the work by the

Imigation contractor shall be responsible for the first year winterization.

2. PRODUCTS

a. PIPES AND TUBES

PVC Plastic pipe: ASTM D2241, PVC 1120, 200 PSIG min pressure

rating. Class 200, solvent weld sockets.
b. PIPE AND TUBE FITTINGS

.PVC ASTM D 2464, Schedule 80 threaded and ASTM D 2467 Schedule

Dielectric Fittings: Assembly or fitting with insulations material isolating joined dissimilar metals to prevent galvanic action and stop corrosion.

Dielectric Unions: Factory fabricated union assembly 250 psig minimum c. JOINING MATERIALS

Solvent Cement: ASTM F 656 primer and ASTM D 2564 solvent cement. d' BACKFEOW PREVENTERS

Description: ASSE Standard backflow preventers.

Working Pressure: 150 PSIG

2 inch and smaller: bronze body with threaded ends 2 ½ and larger. Bronze, cast-iron, steel or stainless steel body w/

flange ends. Double-Check Backflow Prevention Assemblies: ASSE 1015, w/ shut-off valves on inlet and outlet and strainer on inlet. Include test cocks

Pressure Loss: 12 psig

Gate valves supplied with and compatible for size and testing of

Setting to skip operation any day in timer period

Setting for operation every other day Settings for operation (2) or more times daily

Include manual or semi-automatic operation without disturbing

Provide NI-CAD battery and trickle charger to automatically power the timing device during power outages.

Wiring: UL 493, solid copper conductor, insulated cable, suitable for direct

Feeder Circuit Cables: Type UF, No. 12 AWG minimum between

building and controllers. Low-Voltage, Branch Circuit Cables: Type UF, No. 14 AWG Min. Between controllers and automatic control valves in differing jacket colors. Install to the side fo the main line. Where control wires leave the main or lateral lines, install wire in Class 160 PVC

Splicing Materials: Pressure-sensitive, waterproof, thermoplastic wire connectors and other materials required to make specified

connections. Locate all splices within valve boxes. Add two extra control wires from panel to valves for use if a wire fails or for future addition and mark it in the control box as extra

All planter beds are to be irrigated with a NETAFIM drip irrigation system. All trees are to be irrigated with a NETAFIM drip irrigation systematical systems.

Utilize the following criteria:
(1) NETFIM Techline drip tubing with 18" emitter spacing and .61 GPH

emmitter flow spaced at 18". A Techfilter with a triflurex ring is to be installed on each zone in conjunction with a rain bird or eq. DVF series remote valve. Filter size and type: 3/4" 120 mesh disc filter (DF075-120).

All zones are to be installed with a TLFV-1 line flushing valve installed with collar.

All zones are to have a TLARV invacuum relief valve installed at

the highest points withing the zones.

All tubing is to be staked down with TLS6 6" soil stables.

Install extra emitters if necessary to ensure the health of the

a. EXAMINATION Investigate and determine available water supply water pressure and flow

Set stakes to identify proposed sprinkler location. Obtain approval prior to excavation from general contractor.

h. SPRINKLER INSTALLATION

Flush circuit piping with full head of water and install sprinklers after hydrostatic test is complete.

Locate part-circle sprinklers to maintain a min. distance of 12 inches from

i. AUTOMATIC CONTROL SYSTEM INSTALLATION

i. Install per manufacturer's instructions. Install wiring in same trench as piping. Where no piping occurs, install wires in conduit.

Connect piping to sprinklers, devices, valves, control valves, specialities Connect water supplies to irrigation systems. Include backflow preventers

on potable water supplies. Connect to power source, controllers and automatic control valves. k. FIELD QUALITY CONTROL

Perform test of piping and valves before backfilling trenches. Repair leaks I. CLEANING AND ADJUSTING

Flush dirt and debris from piping before installing sprinklers and other

Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit.

Adjust settings of controllers and automatic control valves.

Verify that speciality valves and accessories have been installed correctly and operate correctly.

VERIFY THAT NO SPRINKLERS HIT THE BUILDING WITH IRRIGATION WATER.

Verify that specified tests of piping are complete. Check that sprinklers and devices are correct type

Check that damaged sprinklers and devices have been replaced with new Check that potable water supplies have correct type backflow preventers. Energize circuits to electrical equipment and devices.

Adjust operating controls. viii. Adjust operating controls.
b. Perform operational testing after hydrostatic testing is complete, backfill is in place and sprinklers are adjusted to final position.

DEMONSTRATION

Demonstrate the Complete system operation to the Owner.

Review operating and maintenance information with the Owner.

End of section

Page 6 of 6



Market St. Comments

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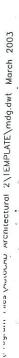
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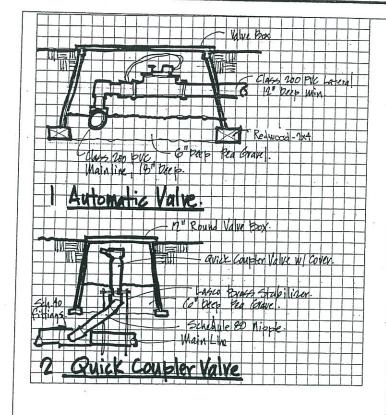
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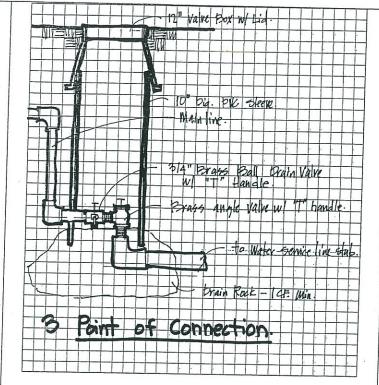
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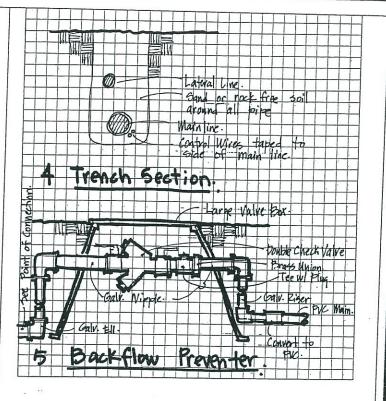
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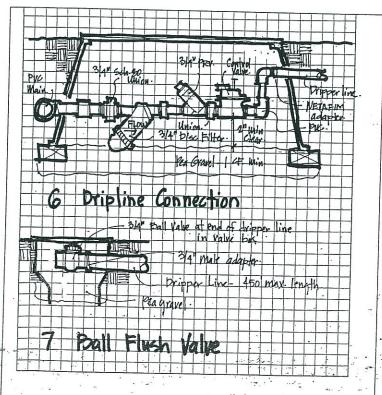
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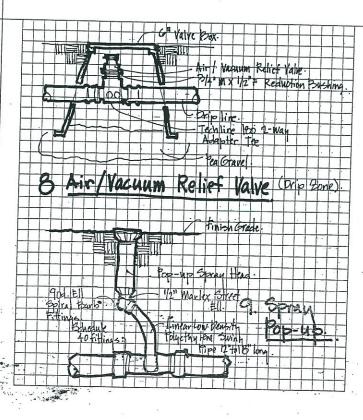


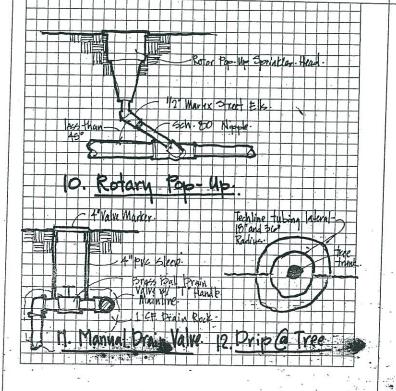


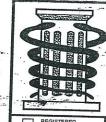












Medical Design Group Architecture for Health Care

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IRRIGATION DETAILS

Desert Sage Health Center 2280 American Legion Blvd.

JOB NAME:

Desert Sage Health Clinic

JOB NUMBER: S032273

CLIENT:

Medical Design Group

GENERAL:

- 1. Unless noted otherwise, all work shall conform to the requirements of the 2000 International Building Code. It is the Contractor's responsibility to verify all existing conditions at the job site, and to fully coordinate all dimensions and conditions of details with other disciplines. Any field conditions requiring construction that is different from that shown on the plans shall be brought to the attention of the Architect. Any conflicting details shown in the drawings shall be brought to the attention of the Architect prior to the construction of said detail. Do not scale drawings.
- 2. All support of construction loads shall be the responsibility of the Contractor. All shoring and bracing required for the protection of the life and property during the construction process shall be the responsibility of the Contractor. All procedures of soil excavation, backfill, and support of adjacent property during earthwork shall be the responsibility of the General Contractor.
- 3. All dimensions indicated on plans shall be to face of study, face of concrete block. face of rough concrete, centerline of columns, bottom of metal deck, and top of slab, unless noted otherwise. Refer to Architectural drawings for all dimensions not indicated on structural drawings.

Components and Cladding in accordance with

IBC Section 1609.6.5

W	ork these drawings with architectural, mecha	nical, a	nd electrical drawings.
Th	e following design criteria shall be enforced:		
A.	Roof Live Load:		20 PSF
B.	Roof Snow Load:		
	A) Ground Snow Load		Pg = 20 PSF
	B) Exposure Factor	Ce =	1
	C) Thermal Factor	Ct =	1
	D) Slope Factor		Cs = 1
	E) Importance Factor	I =	:1
	F) Flat Roof Load	Pf=	25 PSF
	G) Sloped Roof Load	Ps =	25 PSF
C.	Floor Live Load:		60 PSF Labs, 50 PSF Office,
	40 PSF Wards/Rooms		,
D.	Corridor/Stair Live Load:		100 PSF
E.	Roof Dead Load:		30 PSF
F.	Floor Dead Load:		12 PSF
Wi	nd Forces:		
	Wind Building Category		I
	Wind Speed, 3 Second Gust	V3S	90 MPH
	Wind Exposure Category		В
	Wind Importance Factor		1.0
	Roof Net Uplift Due to Wind:		15.8 PSF

7.	Enclosed Portions Zone 1: Enclosed Portions zone 2: Enclosed Portions Zone 3: Wall Zone 4: Wall Zone 5: Roof Overhang Zone 2: Roof Overhang Zone 3: Seismic Forces:	10 PSF -12.1 PSF 10 PSF -19.5 PSF 10 PSF -19.5 PSF 12.4 PSF -13.6 PSF 12.4 PSF -15.1 PSF -27.2 PSF -28.4 PSF
3.	Seismic Use Group: Spectral Response Coefficient: Spectral Response Coefficient: Site Class: Seismic Design Category Seismic force Resisting System: Design Base Shear: 12217.16 Analysis Procedure: Simplified Load combinations for Allowable Stress D+L+(LR or S or R)	I SDS = .333 SD1 = .155 D C Light framed walls with wood shearwalls Design:
	DIT (G-TID	

D+L+(wW)D+L+wW+S/2D+L+S+wW/2D+L+S+E/1.4 0.9 D + E/1.4

Where wind loads are calculated in accordance with IBC Section 1609.6 or ASCE 7, the coefficient w in the above formulas shall be taken as 1.3. For other wind loads w may be taken as 1.0. Flat roof snow loads of 30 psf or less need not be combined with seismic loads. Where flat loads exceed 30 psf, 20 percent shall be combined with seismic loads.

9. Load combinations and Factors for strength design.

1.2D+1.6L+0.5 (LR or S or R) 1.2D + 1.6 (LR or S or R) + F1, L or 0.8W) 1.2D + 1.6W + F1, L + 0.5 (LR or S or R) 1.2D + 1.0E + fl, L + F2S 0.9D + (1.0E or 1.6W)

fI = 1.0 for floors in places of public assembly, for live loads in excess of 100 psf and for parking garage live loads.

fl = 0.5 for other live loads.

f2 = 0.7 for roof configurations that do not shed snow off the structure.

f2 = 0.2 for other roof configurations. See also IBC Section 1605.2.1 Exceptions. 10. Components and cladding; Use the most stringent wind load obtained from code and the project specification. Cladding manufacturer shall consider increase pressure coefficients at building corners, eaves, and rakes.

FOUNDATION:

1. Followed recommendations from soils investigation report prepared by Materials Testing & Inspection, Inc. #B30023g dated January 28, 2003.

2. Minimum frost depth to bottom of footing from ground surface = 24 inches. Maximum foundation soil bearing pressure used = 3000#/SF.

4. Backfill shall be compacted to 95% of Modified Proctor Density in accordance with ASTM D-1557.

5. Prior to construction, remove all construction debris, surficial fill, and topsoil at all pavement, sidewalk and building areas, and replace with structural fill, see soils report for specific requirements.

6. All footings shall be poured in neat excavated trenches. Trench shall be approved by inspector prior to placement of concrete at locations where structural fill is required, fill shall be placed in 6" lifts and compacted at optimum moisture content. Refer to soils investigation for depth-and extent of structural fill. soils investigation for depth and extent of structural fill. Not Given
7. The Contractor shall familiarize himself with the survey and the subsurface

investigation report before starting construction. All foundation work shall be in accordance with the recommendations of the soils report except where noted otherwise on drawings or specifications.

8. The Contractor shall note all subsurface interferences noted in the geotechnical report and Construction Documents by other consultants including but not limited to rock, fills, utility lines, etc.

9. A soils testing laboratory may be retained by the owner to provide construction review to ensure conformance with the Construction Documents during the excavation, backfill, and foundation phases of the project.

10. The soils testing laboratory shall discuss with the Engineer the design intent of the Construction Documents and the testing procedures used to ensure conformance with the Construction Documents before construction begins. Inform the Engineer of any variance in these procedures.

11. It shall be the responsibility of the soils testing laboratory to: determine topsoil and excavation stripping depth; inspect all subsoil exposed during stripping. Site grading, and excavation operations; approve fill materials; perform density tests of fills to ensure placement per specification requirements; inspect foundation-bearing surfaces.

12. Step footing, where required shall be placed, at a ratio of one (1) vertical to two (2) horizontal with a maximum vertical step of 2'-0" unless noted otherwise.

13. Inundation and long term exposure of bearing surfaces, which will result in deterioration of bearing formations, shall be prevented. Footing shall be placed immediately following footing excavations and bearing surface inspection.

14. All fill materials shall be free of organic contamination and other deleterious matter.

15. For back fill against grade beams, etc., Place in 8" thick layers, with each lift compacted at near optimum moisture content, until a minimum in place density of 95% of the maximum density as determined by ASTM test procedure D-1557 is achieved.

16. Notify structural and geotechnical Engineer of any unusual soil conditions that are in variance with the soils report.

17. See Geotechical report building pad preparation.

CONCRETE (CAST IN PLACE AND TILT-UP):

1. All concrete materials shall comply with the standards specified in the latest edition



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of the ACI 318 and IBC building code. Each mix design shall be established in accordance to chapter 5 of ACI 318 and IBC and submitted to the Engineer at least 2 weeks prior to the placement of concrete.

 Concrete testing shall be performed by an approved independent testing laboratory. The testing agency shall test (4) cylinders from each class of concrete used each day. A minimum of (1) sample must be taken from each 50 cubic yards of concrete.

3. All concrete shall develop a minimum compressive in 28 days as follows:

Location	Special	Slump	Aggreg		Compressive
	Inspect.	(max)	(max s	ize)	Strength (PSI)
Footings	NO	5	1"	Ø	3500
Stem Walls	NO	5	1"	Ø	3500
Columns	Yes	4	3/4"	Ø	4000
Retaining Wall	Yes	5	3/4"	Ø	4000
Tilt-up	Yes	5	3/4	Ø	4000
Beams	Yes	5	3/4"	Ø	4000
Interior Slabs	NO	5	3/4"	Ø	3500
Exterior Slabs	NO	5	3/4"	Ø	4000
Composite Deck	YES	5	3/4"	Ø	4000
Slump based upon NO	additives. C	ontractor s	shall be re	cooncibl	a for

required strength.

Compressive	ave the following maximum w Non-air Entrained	Air Entrained
Strength		
3,500 PSI	0.60	0.50
4,000 PSI	0.57	0.48
5,000 PSI	0.50	0.40
6,000 PSI 5. Minimum Cement c	0.45	0.40

- 6. When special inspection is required by design, such special inspection shall be in conformance with special Inspections section. When special inspection is not required, higher concrete strengths have been specified for quality control.
- 7. Any concrete that fails to meet specifications shall be removed and replaced at the expense of the Contractor.
- 8. The Contractor shall be responsible for the construction, design, placement and removal of all formwork. All shoring during placement of concrete is the sole responsibility of the Contractor.
- Provide 5%(± 1%) air entrainment in all concrete exposed to the weather.
- 10. All concrete work shall conform to the latest edition of ACI 117 "Standard Specifications for Tolerances for Concrete Construction Materials."
- 11. Veneer anchors = "Dur-O-Wall" Duro-O-Eye or equal in first and second joints above and below openings and at 16" on center elsewhere.

CONCRETE REINFORCING:

1. All reinforcing bars shall conform to ASTM A-615 or ASTM A-706 #4 bars and larger grade 60, stirrups grade 60, Fy=60,000 PSI min., #3 bars and ties grade 40, Fy= 40,000 PSI min., unless noted otherwise. Bars shall be tied secure prior to placement

of concrete to maintain proper placement after concrete is in place. Lap all bars per Chapter 12 of ACI 318 unless noted otherwise. Splice bars only where shown on plans or in accordance with Item #3 below.

 Maintain the following concrete coverage for concrete reinforcing: Unformed surfaces in contact with earth..... Formed surfaces in contact with earth..... Formed surfaces exposed to outside weather....

3. All detailing, fabrication and placing of reinforcing bars, unless otherwise noted, shall conform to the latest edition of the ACI 318, "Building Code Requirements for Reinforce Concrete", the latest ACI "Manual of Standard Practice for Detail Reinforced Concrete Structures" and IBC International Building Code.

4. No tack welding for reinforcing in the field will be permitted.

5. Shop drawings of all bars and locations shall be submitted to the Structural Engineer for review prior to fabrication.

6. Normal weight concrete shall have a unit weight of 145 to 155 pounds per cubic foot. Use of calcium chloride is not permitted in any concrete mixes. All other additives and admixtures must have the written approval of the Engineer.

7. Welded wire mesh reinforcing shall conform to ASTM A-185 and be furnished in flat sheets, unfinished. Lap mesh 8 inches minimum.

8. Fibermesh fibers are collated fibrillated polypropylene olefin fibers or equal 1/4 inch in length. Fibermesh Fibers shall be added to the concrete mix at a minimum rate of 1.5 pounds (0.1 percent by volume) per cubic yard of concrete. The dosage shall not exceed 15 pounds per cubic yard.

- STRUCTURAL AND MISCELLANEOUS STEEL:

 1. All steel work shall conform with AISC specifications.
- Plates, angles and channels, ASTM A36.
- W shapes ASTM A992, Grade 50. Tubes, ASTM A500, Grade B.
- Pipes, ASTM A53, Grade B.
- Use E70 electrodes for all welds. Metal deck welding can be E60 or E70 electrodes for welding.
- Camber beams only as specified in plans for 1½ times the supported dead load, do not camber continuous beams.
- Bolts ASTM A307 for connections to concrete, ASTM A307 for steel connections.
- All welding shall be performed by welders qualified by an independent testing agency. Qualifications shall be based on the requirements of IBC Section 2208.1.

COLD-FORMED STEEL FRAMING:

- 1. Erect partition walls and shear walls after roof system has been installed with complete dead and mechanical loads.
- 2. Attach gypsum board with #10 screws at 12" o.c. at all studs, tracks, etc..
- Calculate structural characteristics of cold-formed metal framing according to AISI's "Cold-Formed Steel Design Manual".

4. Cold rolled metal framing shall be manufactured according to AISI specifications and

shall meet the following minimum properties and criteria:

a. Yield Strength: 50,000 psi for 16 gauge and heavier materials. 33,000 for 18 gauge and lighter materials.

b. Studs: (S is effective properties, I is gross properties).
2. 3%" x 18 gg Cy = 216 x
3. 31/2" x 16 gg Cy = 201 x
4 314" × 14 co C 400
5 4" \times 20 = 0.00 \times 1 = .854, \times 1 = .108
11 - 10
1.2×10^{-1} 1.2×10^{-1} 1.2×10^{-1} 1.2×10^{-1}
y = .950 $y = .093$
x = 1.1/1 $y = .113$
10^{-10} 10^{-10} 10^{-10} 10^{-10} 10^{-10} 10^{-10}
10. 6 x 18 ga., $Sx = .665$ Ix = 2.026 Iy = .086
11. $6^{\circ} \times 16 \text{ ga.}$, $Sx = .807$ $Ix = 2.510$ $Iy = .105$
12. 6" x 14 ga., Sx = 1.035 Ix = 3 100 Iv = 126
c. Joists: (S is effective properties, I is gross properties)
1. $0 \times 18 \text{ ga.}, Sx = .777 Jx = 2600 Jy = 242$
2. 6" x 16 ga., $Sx = 1.003$ $Ix = 3.312$ $Iy = 3.27$
3. 6" x 14 ga., $Sx = 1.322$ $Ix = 4.115$ $Iy = 402$
4. 6" x 12 ga., $Sx = 1.852$ $Ix = 5.556$ $Iy = 522$
5. 8" x 18 ga., $Sx = 1.128$ $Ix = 5.140$ $Iy = .264$
6. 8" x 16 ga., $Sx = 1.481$ $Ix = 6.550$ $Iy = 3.56$
7. 8" x 14 ga., $Sx = 1.971$ $I = 8.166$ $Iy = 427$
8. 8" x 12 ga., $Sx = 2.776$ Ix = 11.104 Iy = .568
9. 10" x 16 ga., Sx = 1.812 Ix = 11.256 Iy = .376
10 10" - 14 0 0 750
10. 10 x 14 ga., 5x = 2.753
17 17" + 16 0 0 + 50
13 12" × 14 co C 2 2 CO
1/ 12" 12 0 =
d. Track: (S is effective properties, I is gross properties).
3 31/4" × 16 00 0 210 ×
$\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}$
5 4" : 20 IX907 IY = .099
6 4" = 10 - 0 107 1y = .051
7 4" $x = 16 - x = 0$ 276 $1x = .018$ $1y = .066$
$\frac{1}{2}$ $\frac{1}$
9. 6" x 20 ga., Sx = .330 Ix = 1.585 Iy = .057 10. 6" x 18 ga. Sx = 539 Ix = 2.082 Iv = .057
10. 6 x 18 ga., $Sx = .539$ Ix = 2.082 Iy = .073 11. 6" x 16 ga. $Sx = .680$ Ix = 2.616 Iv = .001
12. 6" x 14 ga., Sx = .909 Ix =3.300 Iy = .113

.113 5. Install cold formed steel framing and accessories in accordance with the manufacturer's recommendations.

6. Fastening of cold formed steel framing shall be with self-drilling screws or welding as



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noted in the Construction Documents, unless noted otherwise.

Provide horizontal bridging at all bearing walls at 4'-0" o.c. vertically maximum.

8. Provide temporary bracing for all bearing walls during construction prior to sheathing.

9. Veneer to be anchored to stud walls with "Dur-O-Wall" D/4 431 seismic strap anchors at 16" on center each way with #10 screws.

- 1. Sawn lumber for joists, etc. (2x6 or larger) = No. 2 Doug Fir Larch.
- 2. Sawn lumber for joists, etc. (2x4 or larger) = No. 2 Doug Fir Larch.
- 3. Sawn lumber for wall plates = No. 2 Doug Fir Larch.
- 4. 2xStuds = Stud Doug Fir Larch.
- Posts, stringers and beams = No. 1 Doug Fir Larch.
- 6. Roof ply/OSB = 15/32" CDX, 32/16 APA Rated unblocked, provide one H Clip per span minimum, unless noted otherwise in plans. If roof is blocked, install blocking and do not install H Clips.
- 7. Floor ply/OSB = 23/32" CDX, 48/24 APA Rated unblocked.
- 8. Roof nailing = 8d at 6" o.c. all supported edges, 12" o.c. in field, see also diaphragm
- Floor nailing = 10d at 6" o.c. all supported edges, 12" o.c. in field.
- 10. Wall ply/OSB = 7/16" CDX, APA Rated.
- 11. Wall nailing = 8d at 6" o.c. edges and 12" o.c. in field with blocked ply/OSB edges as noted in plans. See also Shearwall Schedule.
- 12. All ply/OSB nailing shall be 3/8" minimum from panel edges. Provide 1/8" spacing between panel edges by means of nails or Simpson PSCL sheathing clips.
- 13. All nailing shall, at a minimum, meet the requirements of IBC Chapter 23 Table 2304.9.1 Fastening Schedule.
- 14. All nails are to be common nails unless noted otherwise. All staples are 7/16" crown x 1-3/4" long unless noted otherwise. All nails and staples shall conform with IBC Chapter 23, Section 2303.6.
- 15. Follow manufacturer's recommendations for all Simpson, or equal, connections. All connectors shall conform to IBC Chapter 23, Section 2303.5.
- 16. Glu-Lam beams:
- a. Simple span members combination 24F-V4 DF/DF
- b. Continuous span members combinations 24F-V8 DF/DF
- c. Provide minimum camber radius of 2,000 ft. for 1-1/2 times the supported dead load if camber is specified in the Construction Documents.
- 17. Trus-Joist products:
- a. Roof joists shown as TJI etc. shall be designed for the loads specified and shall conform to Trus-Joist specification
- b. Joists exceeding 24' in length shall be cambered to a standard radius of R = 2250.
- c. Any alternate joist system(s) shall be the same depth and load carrying capacity as the Trus-Joist system shown on the drawings.
- d. Camber shall not exceed Trus-Joist maximum camber for commercial Parallams. Camber is specified in Construction Documents.
 - Micro Lam Products shall conform to the following values:

Microllam LVL; Parallam PSL (18" deep end under); Parallam PSL (Over 18" deep);

E = 1.9E6 psi	E = 2.0E6 psi	E = 2.0E6 psi
Fb = 2600 psi	Fb = 2900 psi	Fb = 2900 psi
Fc per = 750 psi	Fc per = 650 psi	Fc per = 750 psi
Fc par = 2310 psi	Fc par = 2900 psi	Fc par = 2900 psi
Fv = 285 psi	$F_V = 290 \text{ psi}$	Fv = 290 psi

Timber Strand LSL (Headers); Timber Strand LSL (Wall studs)

E = 1.5E6 psiE = 1.5E6 psiFb = 2250 psiFb = 2250 psiFc per = 750 psiFc per = 350 psiFc par = 1950 psi Fc par = 1950 psi Fv = 285 psiFv = 400 psi

18. Premanufactured Trusses

a. Truss Loading:

D.L. = 25 PSF.Top Chord Bottom Chord D.L. = 5 PSF. L.L. = 20 PSF, S.L. = 25 PSF. Top Chord

Member Properties:

Chords shall be #2 Douglas Fir or better. Webs shall have minimum Modulas of Elasticity of 1,500,000 psi.

- c. All truss blocking shall be provided by the truss manufacturer and constructed with approved plates.
- d. Truss manufacturer shall verify all truss dimensions, accounting for tolerances, connections, and splice requirements.
- e. All truss connections design shall be the responsibility of the truss manufacturer. Truss manufacturer shall design all truss connections for loads shown in Structural Notes, Construction Documents and as required by governing codes.
- f. Truss profiles shown are representations of possible configurations of web locations and member sizes. Truss manufacturer shall submit shop drawings for approval in accordance with IBC Chapter 23, Section 2303.4.1. All trusses shall be designed by a registered Professional Engineer and all shop drawings shall be stamped and signed by a registered Professional Engineer in the State of Idaho. Shop drawings shall be submitted for approval prior to construction.
- g. Truss manufacturer shall provide proof of approved third party inspection as required by IBC Chapter 23, Section 2303.4.
- h. Each truss shall be marked with the following information:
- Manufacturer's identity.
- Design load.
- Truss spacing.
- 19. Brick veneer to be anchored to stud walls with 22 ga. x 1" nominal anchors at 1'-4" o.c., both vertical and horizontal.
- 20. Log work shall conform to the Log Building Standards, latest edition.
- 21. Log properties shall conform to the Timber Products Inspection Design Values.
- 22. All logs shall be Lodgepole Pine No. 1. The diameter shall be as noted in the plans.

DEFERRED SUBMITTALS

The following list of deferred submittals shall be submitted to Architect/Engineer for

review in accordance with IBC Section 106.3.4.2. Pre-Engineered Trusses

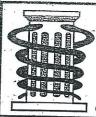
SPECIAL INSPECTION

Special Inspection, as specified in Chapter 17, Section 1704 of the IBC, is required as noted for the following items. The Contractor shall provide a minimum of 48 hours notice to Special Inspector prior to inspection.

I. Steel Construction:

A. Fabrication:

- Not required per IBC Section 1704.3, Exception 1.
- 1. Material verification of high-strength bolts;
- Not required.
- 2. Inspection of high strength bolting:
- Not required.
- 3. Inspection of Welding:
 - a. Structural Steel. Not required.
 - b. Reinforcing Steel:
 - Not required.
- II. Concrete Construction:
- 1. Footings & Foundations:
- Not required per IBC Section 1704.4, Exception 1, 2, 3, 4 or 5.
- 2. Inspection of reinforcing steel:
- Not required.
- 3. Inspection of bolts in concrete:
- · Not required.
- 4. Verification of required mix design: Not required.
- 5. Sampling and testing concrete:
- Not required.
- 6. Inspection of concrete and shotcrete placement:
- · Not required.
- 7. Inspection of specified curing temperature and techniques:
- Not required.
- 8. Inspection of prestressed concrete:
- Not required. 9. Erection of precast concrete members
- Not required.
- 10. Verification of in-situ concrete, prior to stressing of tendons in post tensioned
- concrete and prior to removal of shoring and forms from beams and structural slabs.
- Not required.
- III. Wood Construction: - Per soils report.
- Soils:



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- Not required per IBC Section 1704.7 Exception.
- Required per IBC Section 1704.7.1.
- Required per IBC Section 1704.7.2.
 Required per IBC Section 1704.7.3.

XI. Adhesive and/or epoxy anchors:Provide special inspection.

	20	CREA	D:\ERIC	DETA	
•	26/SEPT/03	CREATION DATE:	D:\ERIC\PROJECTS\DESERT_SAGE\shear\all	DETAIL FILENAME:	
			SAGE\shear\all1		

Engineers, 870 N. Linder Suite, B. Meridion, Id (208) 887-7760 PINNA CLE
Engineers, Inc.
870 N. Linder Sulle, B. Meridion, Idono 83642

CHECKED EW 8Y: 8Y:

		SHEAR WALL SCHEDU	LE .	
MARK 1	SHEATHING	NAILING	END MEMBERS	SILL ANCHORS
\triangle	APA 7/16" PLY/OSB, ONE SIDE, BLOCKED	8d 9 6" O.C. EDGES, 8d 9 12" O.C. FIELD	(1) 2 X	1/2" x 7" EWBED. 0 3"-0" O.C.
2	APA 7/16" PLY/OSB, ONE SIDE, BLOCKED	8d @ 4" O.C. EDGES, 8d @ 12" O.C. FIELD	(1) 2 X	1/2" * 1" EMBED. 0 2'-0" O.C.
				s 3
\dashv		-		
		R WALLS, SPACE ALL OTHER FYTERIOR SHILL ANCH		

NOTE: SILL ANCHOR SPA	acing is under shear	WALLS, SPACE ALL OTHER	EXTERIOR SILL ANCHORS @ 4'-0" D.C.

WARK	TYPE	WOOD MEMBER	COMMENTS					
	SMPSON STHD14/STHD14RJ	(2) 2x OR (1) 4x	SEE SHEARWALL SCHEDULE RJ - RIM JOIST APPLICATION					
\dashv								
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	OF E	FOR LATER	ENT FO	R STAP	LES							
n i	EQUIVALENT SPACING OF APPR'D FASTENER											
COMMON NAIL	STAPLES											
SPACING	GAUGE	16	15	14	1.3							
	PENE- TRATION	1"	1"	1-	1"							
	2" o.c.	NA	2" O.C.	2" O.C.	3" O.C.							
6d AT	3" O.C.	2" O.C.	3° O.C.	3" O.C.	5" O.C.							
DIL = .113	4" O.C.	3° 0.C.	4" O.C.	5" O.C.	6° 0.C							
PEN. = 1 1/4"	6" O.C.	5" O.C.	5" O.C.	7" O.C.	8" O.C.							
	12" O.C.	8" O.C.	10" O.C.	12" O.C.	12" 0.0							
	2" O.C.	NA.	NA .	NA	2" O.C.							
Bd. AT	3" O.C.	NA	2"	2*	3" O.C.							
DU = .131	4" O.C.	2" O.C.	3" O.C.	3" O.C.	5" O.C.							
PEN. = 1 1/2"	6" O.C.	4" O.C.	5" a.c.	6" O.C.	·6" O.C.							
	12° O.C.	6" O.C.	8" O.C.	12" O.C.	12" O.C.							
	2" O.C.	NA	NA .	NA	NA							
10d AT	3" O.C.	NA	. NA	NA	2" O.C.							
DU148	4" O.C.	NA	2" O.C.	2" O.C.	3" O.C.							
PENL = 1 5/8"	6" O.C.	2 O.C.	3" O.C.	4" O.C.	5" O.C.							
OTES:	12" O.C.	4" O.C.	5" O.C.	5" O.C.	8" O.C.							

- 1) PENETRATION IS THE DEPTH OF THE EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REO'D TO ATTAIN ITS FULL CAPACITY SHEAR VALUE FOR LATERAL LOADING.

 2) NAILS ARE COMMON NAILS. STAPLES ARE 7/16" CROWN x 1 3/4" LONG.

	19/32"		
	DIA	PHRAGM	SCHEDULE
RK I	MATERIAL	BLOCKED	NAILING
1) 46	32 PLY, 32/15, APA RATED (MIN.)		8d 9 6" O.C. EDGES, 12" O.C. FIELD
2	48/24, APA RATED (MINL)	МО	10d 9 '6" O.C. EDGES, 12" O.C. FIELD
1	11151		alue i hail.
+	18 Sturdi	- 11001	,
L			
+			·
+			

SHEARWALL, HOLDOWN & DIAPHRAGM SCHEDULE



Medical Design Group Architecture for Health Care

2716 WESTLAND PLACE BOISE, IDAHO 83704-5863 BOISEARCHITECT@AOL.COM Fax. (208) 378-1405 Phone (208) 378-0817

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STRUCT/ARCH SPECS

Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

Permit Number

Envelope Compliance Certificate 2001 IECC

Checked By/Date

COMcheck-EZ Software Version 2.5 Release 1

Data filename: Untitled

Section 1: Project Information

Project Name:

Desert Sage Health center

Designer/Contractor: Document Author:

Medical Design Group, Architect David R. Davies

Section 2: General Information

Building Location (for weather data):

Mountain Home, Idaho

Climate Zone:

Heating Degree Days (base 65 degrees F): Cooling Degree Days (base 65 degrees F): Project Type:

6176

741 New Construction

Building Type Medical and Clinical Care

Section 3: Requirements Checklist

Bldg. Dept. Use

| Air Leakage, Component Certification, and Vapor Retarder Requirements
| 1. All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
| 2. Windows, doors, and skylights certified as meeting leakage requirements.
| 3. Component R-values & U-factors labeled as certified.

[] 4. Vapor retarder installed.

Climate-Specific Requirements

Component Name/Description	Gross Area	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: All-Wood Joist/Rafter/Truss Roof 2: All-Wood Joist/Rafter/Truss Skylight 1: Metal Frame, Double Pane with Low-E Tinted, SHGC 0.59	7323 1188	38.0 30.0	0.0 0.0	0.028 0.035	0.054 0.054
Exterior Wall 1: Wood Frame, Any Spacing	64		_	0.600	0.054
Window 1:	2431	21.0	6.0	0.045	-0.086
Metal Frame with Thermal Break, Double Pane with Low-E Tinted, SHGC 0.58, PF 0.75 Window 2:	702	_	_	0.540	0.579
Metal Frame with Thermal Break, Double Pane with Low-E					
Door 1: Glass, Tinted, SHGC 0.47 PF 0.50	32 96				0.579
Exterior Wall 2: Wood Frame, Any Spacing	1309				0.579 0.086
Interior Wall 1: Wood Frame, Any Spacing	160				0.086
Interior Wall 2: Metal Frame, 16" o.c.	240	1000000			0.136

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Envelope PASSES: Design 29% better than code

Section 4: Compliance Statement

The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2001 IECC, Chapter 8, requirements in COMcheck-EZ Version 2.5 Release 1 and to comply with the mandatory requirements in the Requirements Checklist.

Principal Envelope Designer-Name

Medical Design Group Architecture for Health Care

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ENERGY ANALYSIS

Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

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01.09

Architect at least 10 days prior to bid date. 01.04 Payment Application to be on form AIA G702 on or before 25th of the month. Payment by Owner within 30 days after certification by Architect, approval by the owner and

acceptance by the funding agency.

All submittals required to be submitted to the architect within 30 01.06 days of notice to proceed. Architect to review and return within 14 calendar days.

01.08 General contractor required to provide the following for this project:

Full time on-site superintendent Temporary electricity, lighting, heat, ventilation, water, sanitary facilities

On-site telephone and fax machine Required construction barriers and/or fencing Progress cleaning and final cleaning prior to Owner

4' x 8' professionally painted job site sign approved by the Architect erected within 10 days of Notice to Proceed. Full Labor, Performance and Payment bonds. All work to be in full conformance with applicable codes and

All materials included in the work to be new. Construction Close Out:

General contractor to submit written certification to Architect that work is in full conformance with the contract documents. Owner training has been accomplished to the satisfaction of the

Equipment systems are adjusted, tested and fully operational Close out submittals (2 copies) have been approved by the Architect

Close out submittals to include: Certificate of Occupancy, Project record documents, O&M data, Warranties and Bonds, Spare parts and Maintenance Materials, Keys, Evidence of

Faux Stone: Cultured Stone by Owens Corning with the following components: Weather barrier (see div. 06), 2.5 lb. Metal Lath or 18 ga. Falv. Woven wire mesh, galv. Nail fasteners, Type N mortar (1 part Type N cement, 1 part lime, 4.5 to 6 parts sand), Mortar color (selection by Architect), and Cultured Stone including field pieces, comer pieces and wainscot cap pieces as applicable, and Silane base masonn

04.08 Faux Stone: Install per manufacturer's published instructions under NER report 358 to achieve a 50 year limited warranty. 04.09

Faux Stone: Color to be per architectural color schedule. Reinforced Unit Masonry System: AC! 530 - Building Code Requirements for Masonry Systems, IMIAC - Recommended Practices and Guide Specifications for Cold and Hot Weather Construction. Utilize Type I, moisture controlled masonry units, ASTM C-90, 2800 psi compressive strength. Composite Masonry Strength: fm = 1500 psi. Reinforcing Steel: ASTM A615, 60 ksi.

DIVISION 06 - Woods and Plastics

06.03 Sill Plate Seal: 1/4" polyurethane foam Building Paper. DuPont Tyvek or Dupont Tyvek Stucco Wrap, install horizontally over exterior wall sheathing. Lap edges 6"

min. to shed water and secure. 06.15 Finish carpentry: provide and install finish carpentry items other that custom casework, max tolerance from true position:

1/16".
Trim Wood to be oak (light stain) and bren (dark stain). Finish 06.16 to be stained two colors to match wood doors. 06,17 Install finish carpentry in accordance with AWI custom quality

standard Custom Casework: Provide and install: cabinet units, counter tops, cabinet hardware, prefinished surfaces in compliance with AWI's "AIW/AWMAC Quality Standards Illustrated"; Custom Grade. Furnish shop drawings. PROVIDE AWI QUALITY CERTIFICATION PROGRAM CERTIFICATE INDICATING THAT WOODWORK COMPLIES WITH REQUIREMENTS OF

Foil/Scrim/Kraft with flame spread less than 25 and a smoke density of less than 450. Anchor to substrate at 3" o.c. Design intent: provide a continuous vapor barrier throughout the building envelope. Vapor barrier is to be air tight and free from holes, tears and punctures.

Batt and Blanket insulation: Provide and install acoustical batt insulation, thermal, unfaced batt insulation; R-19 min at exterior walls, R-38 min at attic. Match framing spacing.

Concrete Roof Tile: Bartile, Shake Style. Install in strict accordance with manufacturer's written instructions. Color per

Architectural Color Selection Instructions.
Asphalt shingles: Provide and install granular surfaced fiberglass reinforced asphalt shingle roofing, 30# underlayment plus 60 mil ice dam protection min. 2' upslope beyond interior face of exterior wall and 2' each side of valleys, and all roof penetration and edge flashings weather lapped and sealed watertight. Contractor performing roofing work is solely responsible for complete weather tightness for the entire roof system. Min. air temperature while performing work: 50

Asphalt shingle: Elk Prestique with manufacturer's pro-rated warranty for 50 years.

07.07

Sheet metal flashing and trim: provide and install roof flashings, reglets and misc. exposed metal trim and flashings, concealed brick, masonry and foundation flashings and window and door head flashings, gutter and downspout. Exposed flashings: shop pre-coated with Kynar 500. Provide 20 year warranty for degradation of metal finish. Color of flashing to be per Architectural Color Selection Instructions. Caulk all metal

Joint Sealers: Sikaflex 2c NS/SL FS TT-S-00227 at exterior locations except as specifically noted in this paragraph; Sikaflex 1a FS TT-S-00230 at Interior door/window frames, metal flashing lap joints and masonry reglets and Sikaflex 15

LM FS TT-S-01543 at interior high moisture and mildew areas. Translucent Skylights - Kallwall Translucent Daylighting Panels, Self-flashing Single Slope Crystal-Crystal, 2.5 R Factor, 65% Light Transmission, thermally broker perimeter framing. Live Load per code analysis on cover sheet of drawings.. Submit shop drawings. 2 3/4" panel thickness. Grid pattern - In-line

species to be Red Oak Finish to be stained See door schedule and Architectural Color Selection Instructions. Raise Panel wood doors (bid alternate): Marshfield Stile and Rail Doors, 1 3/4" thick, Red Oak Veneer, Lifetime Warranty. Aluminum entrances and storefronts: Provide and install aluminum doors, frames and glazed lights, glass, anchors, brackets and attachments and hardware. Provide 5 year manufacturer's warranty. Product: EFCO Thermal D502 entrance and framing at exterior locations D500 entrances and framing at interior locations or prior approved equal (during bidding). Hardware: Weather stripping at exterior locations, off set pivot hinges, threshold door bottom, closer. LCN 4041, Adams Rite 4510 Latch Lock cylinder, push-pull: ultraline, solid metal kickplate. Hardware finish to be US26D. Door and Window Kynar 500 prefinished color to be selected by architect from standard or premium color finish. Provide shop drawing submittal.

Aluminum windows: Provide and install aluminum windows, operating hardware, perimeter sealant, glazing (shop glazed) to be EFCO window 890 series thermal Equal Sightline, 3 1/2" frame or prior approved equal.. Kynar 500 frame color to be per

Architectural Color Selection Instructions
Door hardware: Finish to be US10B, Antique Bronze. Hinges: McKinney T4B3786. Locksets and latches: Best 94K7-**-14L-S3. See door schedule for lockset functions. (entry = AB, Classroom = R, Passage = ON, Storage = D and Privacy = OL). Lever Latch Lock: Adams Rite 4510 Closer. LCN 4041 series, DA, ADA. Push/Pulls: 2350P Quality and 402 Quality Stops and holders: Floor: 119 Quality, HD Floor: 1209 Trimco, Panic Device: Von Duprin Series 35 rim surface vertical rod type with lever/key cylinder. Wall: 302 Quality. Overhead stop: GJ100LPS Glynn-Johnson, Door Holder: 1149-A Quality. Kickplates: 48 Quality, Weatherstrip and seals: S88D Pemko, Threshold: 2005BS light seal. Low Energy Power Assisted Opener: Horton series 7000 easy Access Low-Energy Electric Swing Door Operator. http://www.hortondoors.com Keyless Interior Latchset: Best Keypad Electronic Lock, trim to match latchset as noted above. Typical at all doors: frame silencers.

Glazing: Provide and Install 1/4" thick clear float (ASTM

Payment and Release of Liens, Consent of Surety to Final Payment, Certified completed list of final punch list items. 01.12 Items paid by Owner: Permanent Electrical, Sewer and Water connection fees. Plan Check and Building Permit fees. Fire department review fees. Traffic Impact fees and Materials Testing and Inspection costs. All other fees, permits, licenses and charges for services and connections to outside services by Contractor.

On Change Orders: Maximum Overhead and Profit mark-up by subcontractor on raw labor and material costs shall be 10% plus any bonding costs.

On Change Orders: Maximum Overhead and Profit markup by 01.14 general contractor to subcontractors costs, and raw labor and materials costs incurred by the general contractor shall be 15% plus any bonding costs.

On Change Orders: On credits back to the owner, the Minimum credit for Overhead and Profit shall be 10% on labor, materials and subcontractor items plus any bonding costs.

01.17 Sub-Contractor Minimum Insurance Requirements: Same as General Contractor except \$500,000 each for General Liability and Automobile Liability.

Materials Testing: In coordination with the architect, test subbase and base materials for compaction prior to placement of concrete or asphalt materials, and also at the site of the demolished house and basement as noted on the site plan. Also, test concrete for slump, air and strength, test asphalt for compaction. contact MTI of Boise for testing services. (376-4748).

DIVISION 02 - Sife

02.10

Foundation vent wall - Lay-right Foundation vent wall FV168E or equivalent. Bowman & Kemp Steel and Supply; Inc. (801)

Pole Mounted Exterior Site Signs: Advances Sign, Boise, Idaho 2" square punched tube. Sign Schedule: (2) stop/buckle seat belts combination signs and (5) ADA parking signs.

DIVISION 04 - Masonry

GRADES SPECIFIED. AWI Quality Cert. Proj No.: 04.017 Casework wood materials: Softwood lumber: 8% max moisture. Hardwood lumber oak veneer at all door and drawer fronts and face frames. Stain to match Hardwood Interior. Doors (light stain). See the Architectural Color Selection Instructions. Utilize Birch wood where a Dark Stain is noted.

Casework sheet materials: Permalam thermoset decorative panels, 45 pound wood particle board at all interior semi-exposed surfaces. Location: Drawer construction, Gables and backs, Shelving. Color by architect from manufacturer's standard colors.

Casework Plastic laminate: Counter tops NEMA 0.050 inch general purpose.

06.22 Casework edge trim: Solid hardwood on all exposed edges where Hardwood lumber is specified.

Casework Hardware: Shelf Standards: Blum 34.0040; Drawer and Door Pulls: 4" wire pulls, finish to match Div. 08 door hardware; Cabinet locks: Dead Bolt 5 pin tumbler locks equal to Olympus 100DR and 200DW; Drawer glides: Blum 429 230 Extra heavy drawer guides: Blum 426A series; Hinges: European style, Blum or eq., 125 degree self-closing concealed clip hinges, (2) per doors under 36" high, (3) per doors between 37" and 60" and (4) on doors taller than 60"; Cable grommets: two part 60mm with spring closure by Hafele or eq.

Shelf width: 30" wide or smaller: 3/4", 30" to 42": 1" wide. 06.24 shelves above 42 inches are not allowed without intermediate support.

Crawl Space Access Door Hardware: Stanley 1215 Trap Door Pull Ring

Reception Window: Knape&Vogt P992 ZC w/ 1/4" min. tempered glass

DIVISION 07 - Thermal and Moisture Protection

06.23

Bituminous Damproofing: Sonneborn Hydrocide 600 installed 07 01 on exterior side of foundation walls.

Vapor and Air Retarders: Under Slab and at ground level at crawl space: 10 mil clear polyethylene; At exterior walls and ceiling on warm side of insulation directly beneath gypsum board: 6 mil clear polyethylene; At exterior walls and ceiling on warm side of insulation not directly beneath gypsum board:

Shoji. Alum finish: Class II Clear, 204-R1, 0.4 mil thickness Install flashings, fasteners, hardware, sealants and glazing materials required for a complete weatherproof installation Provide manufacturer's ten year weather tightness warranty against any leaks. Warranty to fully cover costs of materials

Architectural Wall Panels: Preformed flat seam wall panel system with manufacturer's fasteners, flashing and trim. Warranty: Manufacturer's 20 year finish and material warranty and installer's 2 year warranty. Warranty: Garland Co., Cleveland, Ohio, R-MER FSP, 24 gauge steel, fluorcarbon finish, mfr. Standard color.

Modified Bituminous Membrane Roofing with insulation-Torch Applied. Over properly prepared substrate which is to include: 2 layers of 2" polyisocyanurate, 1/4" Dens-Prime, and .5/12 tapered polyisocyanurate crickets mechanically fastened to deck according to roofing system manufacturer's guidelines, install the following roofing system. 195 mil Modified Stressply IV Mineral surfaced roofing membrane with dual fiberglass scrim over two layers of HPR SBS torch base sheet. Include all flashings, counter-flashings, curbs and penetrations according to Garland guidelines. Submittals Required. Manufacturer: Garland Co., Cleveland, OH. Warranty: Manufacturer 30 year water tightness. Installer: 2 year. Annual inspections for the life of the warranty.

Roofing Sealant: Concealed: PT1-707 Exposed: GE Silglaze II

DIVISION 08 - Doors and Windows

08.01 Exterior Standard steel doors and frames: Provide and install SDI-100 Grade III 16 gauge model 2 and 2A doors and 16 gauge fully welded steel frames equivalent to Steelcraft. Insulate exterior doors. Provide factory zinc chromate prime coat. Fire rated doors/frames conform to NFPA 252, provide door labeling per UBC. Max. tolerance 1/16"

08.02 Flush wood doors: Provide and install fire rated and non-fire rated 5 ply AWI PC-5 premium grade hardwood veneer doors equal to Weyerhauser/Marshfield and door light kits. Veneer

Medical Design Group Architecture for Health Care

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ARCHITECTURAL SPECS

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DIVISION 09 - Finishes

09.05

Light Gauge Metal Studs: Provide and Install non-load bearing 09.01 formed steel interior wall framing, accessories for steel stud walls and backing for all wall mounted equipment, door wall stops and accessories. Max. allowable deflection - L/240. Design system to provide for movement of components without damage, failure of joint seals, undue stress on fasteners or failure due to temperature variations. Utilize Angeles Metal System or equal. Studs, and furring channels: 25 gauge except 16 gauge at areas where wall mounted cabinets occur where blocking is required. Tracks and headers: 20 gauge. Backing: utilize 3/4" cdx plywood or solid 2x lumber. Tolerance: 1/8" in 10'.

Extenor Coatings (Lath and Plaster Stucco): Provide and Install exterior stucco system consisting of EPS Insulation board, 20 Ga. metal lath, Stucco base coat, elastomeric/acrylic finish coat and accessories such as continuous screened galvanized soffit vent, sealants and control joints. Manufacturer: Western Stucco Products Co., Inc. Product: Western One-Kote, ICBO report ER-3899 or prior approved

Gypsum Board Systems: Provide and Install 5/8" type X gypsum board, taped and sanded joint treatment, Light orange peel sprayed texture finish and installation of acoustical sealant at sound rated wall perimeters and accessories including edge trim, control joints at walls greater that 30 in

and Kote by Sonneborn, Two coats Sonothane MVP by Sonneborn. Color selected by Architect from manufacturer's standard colors. Architect may select up to 10 paint colors.

09.10a Fabric Wall Covering: Tri-Kes, Halcyon 63 Acrylic Impregnated Hardwood Flooring: Gamapar, Beach, Mapic, Translations 31779 9.12 natmeg Sheet Vinyl Flooring: Armstrong seams mint

DIVISION 10 - Specialities

10.05

Fixed foundation wall louver. Provide and install 8" x 16" Witten Automatic Vent which open and close automatically based on the air temperature. Manufactured by Witten Automatic Vent Co. Www.doityourself.com

10.02 Corner Guards: Provide and Install 4'-0" long IPC 4212 Series corner guards. Utilize smaller width in "back to back" installation situations. Color. clear. Fastener: Self tapping screws into wall studs or solid backing.

10.03 Vinyl letters: Provide and install vinyl adhesive type building numbers adhered to the glass at the front door which satisfy building code requirements.

Plastic Signs: Provide and Install panel signs which comply , with ANSI 117.1 provisions for character proportions, height, raised and brailled characters and pictorial symbol. Center of sign to be 60" above finished floor adjacent to latch side of interior door on wall surface. Color by architectifrom manufacturer's standard. Manufacturer: Innerface Architectural Signage, Wood series, wall mounted;

15", (2) 2-line "Exam Room/Procedure Room" signs approx 7" x 15", (1) X-Ray" sign approx 4" x 15", (1) "Laboratory" Sign Approx 4" x 15", (1) "No Smoking" sign approx 4" x 15", (1) 'Conference Room' sign approx 4" x 15". Note: Each exam room is to be given a unique letter/number suffix (ie. "Exam Room A1" or "Exam Room B3/Procedure Room") Unique suffixes will be A1, A2, A3, B1, B2, B3 (combination procedure room), C1 and C2

Fire Extinguisher, Cabinet and Accessories: Provide and install 60 BC tank with pressure gauge, 10 lb. capacity in a white semi-recessed cabinet equal to Larsen's Manufacturing

10.13

Window Coverings: Hunter-Douglas, Duette, 3/4" pleat, Double Honeycomb Construction, color by architect from entire range of colors and Elite fabrics, semi-opaque except at office areas which are to be semi-shear with Expressions fabrics. Bottomup with Ultra Glide and Literioe along with a lifetime warranty. Dedication Plaque: Best Sign Systems #228577, 300 Letters

DIVISION 13 - Special Construction

13.01 Radiation Protection

1. Includes Lead Backed Gypsum Board, Lead Sheet Accessories, Gypsum Panel Fasteners, Lead Lined flush wood doors, Lead Lined Steel telescopic window frames, Radiation resistant glass, Glazing accessories.

2. References: NCRP Report No. 49, Structural Shielding Design and Evaluation for Medical Use of X-rays and Gamma Rays of Energies up to 10 MeV.

3. System Description:

A. Installed radiation protection materials shall comply with National Council on Radiation Protection, NCRP Report No. 49 for diagnostic rooms

B Flectrical installer shall install electrical boxes centered between study and connect conduit at the top of electrical boxes, where possible at walls with lead lining.

4. Submittals: Product Data, Shop Drawings, Certificates, Door Hardware, Site Inspection Report prepared by a Radiation shielding inspector within 10 days after site inspection os exposed radiation resistant assemblies

5. Distributors: Wave Barriers, Shielded Building Materials, 20811 NW Cornell Rd. Ste 500, Hillsboro, OR 97124-9804 Bill Zander 1-800-498-1460

6. Components:

A. Lead Backed Gypsum Board Panels: ASTM C36, Beveled, Type X with lead backing sheet backing meeting FS QQ-L-201, Grade C.

B. Lead Sheet Accessories: FS QQ-L-201, Grade C. Batten Strips: Same thickness or greater as lead sheet on back face of adj. Wall panels, 2" wide, 7 feet long.

C. Wall Penetration Covers: Same thickness or greater than thickness of lead sheet on back face of adjacent wall panels. Size as required for not less than 1 inch wide lap with lead sheet on back face of adjacent wall panels.

vertical gypsum panel joints.

B. Install lead backed gypsum board in compliance with GA-216 and ASTM C840. Install with long edges vertical. Install to within 1/4" of floor. Screw lead backed gypsum board to steel framing members at 8 inches o.c. at panel edges and 12 inches o.c. in the field. Utilize fastener tabs at wood studs.

C. Install Steel Door Frames using adhesive to apply lead lining in door jambs. Otherwise, install in accordance with

D. Install Wood Doors and Door Hardware to comply with AWI Quality Standards, Section 1700,

E. Install Lead Lined Steel Telescopic View Window Frames setting unleaded frame plumb and square in wall opening on control room side of wall with shims. Set leaded frame inside unleaded frame on X-ray side of wall and compress adjustable frame against face of wall. Secure both frames with equal spaced screws through each jamb. Install setting blocks, shims and glazing tape in glazing channel to prevent glass from touching the steel frame. Install radiation resistant glazing in telescoping frame. Place steel stops.

F. Install wall penetration covers by cutting the covers from lead sheet making allowance for required laps. Install penetrating wall boxes and raceways centered between studs using steel telescoping mounting brackets. Adhesive apply lead sheet penetration covers on penetrating boxes and raceways and return penetration covers to backside of lead backed wall panels with 1 inch minimum laps.

G. Install pipe penetrations in Walls and Ceilings by wrapping pipe with wall penetration covers lapping lead joints 1 inch minimum. To prevent radiation passage through pipe openings, offset pipe direction as close behind wall lead lining as possible so that the pipe can be backed with lead sheet sufficient to prevent radiation passage at an angle.

A. Prior to applying gypsum panels to back face of radiation resistant interior walls, employ a qualified radiation shielding inspector for field inspection of installed radiation resistant materials. Contractor to include cost for this inspection in price for construction. Written report to be issued to Architect and Owner within ten days of inspection. Repair and replace work found defective by radiation shielding inspector or testing by a

length, joint materials and fasteners. Conform to applicable codes for fire rated assemblies. Manufacturer: USGypsum Co. or equal. Max. variation from flatness: 1/8" in 10'. Install water resistant gypsum board on the back and side walls within 5' of plumbing fixtures. Suspended Gypsum Board Systems: USG Drywall Suspension System.

Suspended Acoustical Ceilings: Provide and Install Non-fire rated Suspended metal grid ceiling system and perimeter trim, Acoustical tile. Fully comply with seismic bracing requirements of the building code. Furnish 100 sf. of extra tile to Owner for each tile type. Manufacturer: Suspension system: Donn Corp. 9/16" Centricitee Acoustical tile: USG Eclipse 24 x 24 Climaplus style FL and USG Sand Drift 24 x 24

Resilient Flooring: Provide and Install Sheet Linoleum flooring, 4" and 6" high Resilient Base, 1/4" Multi-ply sub-floor underlayment, Sub-floor fillers, primers and adhesives, Johnsonite Rubber floor thresholds, Heat Welded Seams Provide 20 sf of extra stock for each type of flooring material. Manufacturer: Sheet Linoleum: Forbo Marmoleum Resilient Rubber Base: Johnsonite Carpet to Resilient transition threshold: Johnsonite CTA-XX-H 1/4" carpet to 1/8" resilient. Installation by certified Master Mechanic. Carpet Base. Provide and Install carpet base as specified in "Resilient Floor Base" above unless hardwood floor base is shown on the drawings in which case install a 4" x 3/4" stained

hardwood floor base to match doors. Carpet: Manufacturer. Collins and Aikman Product: Bahaus Boarder Carpet: Per finish plan. Include 20 year Manufacturer's non prorated warranty.

Painting: Provide and install Surface preparation and Surface finish. Provide two gallons of extra stock of each type and color of paint. Manufacturer: Benjamin Moore Co., Min. temperature for application: 50 degrees. Beginning of installation means acceptance of substrate. Schedule: Pavement markings: One coat chlorinated rubber paint, white: Steel shop primed and galvanized: One coat zinc chromate primer, Two coats alkyd enamel, gloss. Gypsum Board: On coat acrylic latex primer sealer, Two coats acrylic latex enamel, semi-gloss. Gypsum Board to receive wall covering: One coat acrylic latex primer sealer. Concrete Floors: One coat Prime

2409-6R, vertical duo, color: white. Dimensions: $27 \times 12 \times 8$. Verify proper fit into wall cavity prior to order. Silk screen "FIRE EXTINGUISHER" on cabinet door.

Lock Boxes: Provide and Install one recessed mounted Knox Box at building exterior near the front entrance. Obtain purchase order from local fire chief.

Toilet and Bath Accessories: Provide and install toilet and bath accessories as manufactured by McKinney Manufacturing Co. as follows: Toilet paper dispenser - Surface MK 1530, Grab Bars MK 9604, Janitor Closet: 224 Utility shelf, 4'-0" long with mob hooks, Feminine Napkin Disposal: 626. Paper Towel Dispenser: 609 (250 C-Fold Capacity). Recessed Paper Towel Disposal: 829. Revolving Specimen Pass-through Cabinet 895. Robe Hood 1028B. Soap dispenser by suppliers of paper towel/soap products to be installed by owner. Electronic Paper Towel Dispenser: In-Sight Elect-R-Matic HRT Dispenser, 09703, 10.5" x 15.75" x 8.6", Smoke Grey. OFCI Paper Towel Dispensers to be relocated in exam rooms: total (5). OFCI Changing Table to be located in Patient Toilet 1. Remove these OFCI accessories from the existing Desert Sage Clinic in Mountain Home and relocate to the new facility. New Accessories required include: Grab Bars (per plan), Toilet Tissue dispenser - one per water closet, Feminine Napkin Dispenser - one per water closet, One Utility shelf to be located in the Utility 1 room above the janitor sink, (10) new Paper Towel Dispensers (C-Fold type) to be located next to each hand wash sink except at bathroom sinks, (4) new Electronic Paper Towel Dispensers to be located next to each of the Bathroom Hand Wash Sinks. (4) recessed Paper Towel Disposal units (15.5"W x 28.5" H x 4" deep. Top of unit 44" AFF max. (1) Revolving Specimen Pass-through Cabinet (rough opening: 13.75" W x 14.5" H). Robe Hooks: (1) at back of door 129. All Mirrors to be OFCI. Mirrors to be wood framed and are to be securely mounted to walls in locations determined by architect.

10.11 Fixed Wall Mounted Louver: Greenheck, Mill Finish Aluminum, Stationary Extruded Louver, Model ESK, www.greenheck.com 10.12 Cast Exterior Letters: Metallic Arts www.metallicarts.com Baked Enamel Painted Finish on Aluminum; Helvetice 12" high, 1" depth, 2.25 - 2.75" stroke, ave. width: 10.25 in both UPPER

and lower case. Projected Spacer Mounting.

D. Fastener Tabs: Same or greater thickness than thickness of lead sheet on back face of adjacent wall panels. Size not less than 1 inch wide by 2 inches long. Note: these tabs are used for screw application of gypsum panels to steel studs without batten strips and for all wood studs. See details. E. Door Jamb Lining: Same or greater thickness than

thickness of lead sheet on back face of adjacent wall panels. Size 7 foot long by width required by door frame. F. Lockset Rose and Knob Lining: Same or greater thickness than thickness of lead sheet within adjacent door. Size as

required to fill lockset rose and knob. G. Frame Lining: Same or greater thickness than thickness of lead sheet on back face of adjacent wall panels. Continuous length at head and jamb, 3 pieces with 1 inch laps at frame

G. Gypsum Panels Fasteners: Screws: ASTM 1002, 1 inch long, bugle head. Adhesive: ASTM C557. H. Radiation Shielding Glass: Glass type: Polished radiation shielding glass containing not less that 50 percent lead oxide. Glass Quality: Surface: Mirror polished, 1/4" thick min. Lead

Equivalency of Glass: 1.58 mm min. I. Glazing Accessories: Setting Blocks: Solid Neoprene, 80 to 90 Shore A hardness. Glazing Tape: Foam neopre

7. Lead Lined Flush Wood Doors: AWI Custom PC-5, Lead Lined, Face Veneer and Stain Color to match other wood doors in facility as specified in section 08. Thickness: 1 3/4". Finish: comply with requirements of section 09. Door fitting requirements: 1/8" space max at perimeter except 1/2' max space at door bottom. 8. Lead Lined steel Telescopic View Window Frames: Frame: ASTM A568 and ASTM 366 with Lead Sheet Lining FS QQ-L-201, Grade C, single un-pierced strip, 1/16" thick. Frame Profile: 2 inches wide with 7/16 inch high integral fixed stop and 16 gauge applied cold rolled steel stop. Frame Construction: Two telescoping steel frames with continuous welded corner seams and lead sheet applied with

9. Execution: A. Installation of Radiation Resistant Wall Assemblies: Screw lead battens to steel studs at 12 inches o.c. from floor to ceiling. If wood studs are used, secure lead battens to wood studs with adhesive or brad nails from floor to ceiling behind

adhesive to inside face of the outside frame, shop primed."

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esert Sage Health Cente

Mar 2004

B. Tape temporary paper signs on radiation resistant walls with the following text: "DO NOT MOUNT EQUIPMENT ON THIS WALL WITHOUT COVERING PENETRATING FASTENERS WITH LEAD SHEET OF THICKNESS REQUIRED BY ORIGINAL CONTRACT DOCUMENTS"

ARCHITECTURAL COLOR SELECTION INSTRUCTIONS

VERSION 02

Date:

6 August 2004

Project:

Desert Sage Health Center, Mountain Home

Exterior Materials

Stone: Cultured Stone Blend:

80% Souther Ledgestone (CSV 2056) and

Stucco Light: Stucco Dark: 20% Bucks Country Dressed Fieldstone (CSV 2030) Dryvit #612 Moonlight > See attached sketch.

Dryvit #131 Gull Gray > See attached sketch.

Aluminum Window Frames: Aluminum Storefront; South Entry: Aluminum Storefront: Other

EFCO Charcoal EFCO Dove Grey **EFCO Charcoal** Medium Grey Tint.

Glass: Metal Flashings and gutter system:

Uni-clad Charcoal Gray (Kynar 500)

Concrete Roof Tile: Exterior Light Fixtures:

Bartile: 20% Vermont Grey, 40% Laredo, 40% Lexington

SPI PT09 Medium Gray

Interior Materials:

Boarder Carpet B:

Boarder Carpet C:

Boarder Carpet D:

Carpet: Boarder Carpet A:

C&A Bahaus, 56016 ltten C&A PAII 60042 Steel C&A SD 81363 Clarion C&A SD 81353 Bluegrass C&A SD 60035 Mediterranean C&A 60056 Indigo

Boarder Carpet E: Carpet Rubber Base: Walk-off Carpet:

Johnsonite 38 Pewter C&A Triad, 60 Bordeaux

Linoleum A: Linoleum B: Sheet Vinyl: Wood Flooring:

Forbo Real 3053 Dave Blue w/ Johnsonite 38 Pewter Forbo Fresco 3866 Eternity w/ John. 21 Platinum Base Armstrong Translations #31779 Mint

Gamapar, Beech, Natural

Stain Light: Stein Dark:

Marshfield Oak, Honey 26-95 Marshfield Birch. Raisin 50-97 see "Stain Light" above Varies: See drawings.

Interior Wood Doors: Interior Wood Trim:

Solid Surface:

Corian Venaro Gray, Malachite, Everest and Colbalt Laminate One through Five: WA 4797-60 Burnished Spruce, WA D321-60 Brittney Blue, WA D369-60 Burgandy, WA 4829-07 Satin Silver, WA 4795-60 Windswept Pewter

Paint One through Ten: Fabric Wall Covering:

-to be determined--to be determined-

Window Coverings:



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NUMBERED NOTES

01. Tie Site Concrete to foundation wall w/ #4 @ 6" 0.c. w/ 6" min. embed 02. Depress top of conc. vfoundation wall 4" to pour slab over at cross hatch 03. Typical Exterior Foundation: 1'-6" x 8" Footing w/ (2) #4 Cont. w/ 10" stem wall w/ #4 vert. alt. hooks at 2'-8" o.c.* w/ #4 Horiz @ 1'-0" o.c. 04. Typical Pony Wall Footing: 1'-4" x 8" W/ (2) #4 Continuous. Pony Wall Framing: "2x6 @ 1'-4" o.c. 05. Slope Concrete Slab to Overhead Door 06. 4" thick Conc. Slab over 4" gravel over 95% compacted sub-base 07. 2'-0" Sq. x 8" Pad w/ (3) #4 E.W. 08. 2'-6" Sq. x 8" Pad w/ (3) #4 E.W. 09. 3'-6" Sq. x 12" Pad w/(4)"#4 E.W. 10. Floor Sheathing: 1 1/8" T&G "Sturdi-Floor Glue and Nail 11. 2'-8" Sq. Pier w/ (4) #4 Vert Hooks w/ #3 Ties @ 8" o.c. w/ 3'-6" Sq. x 8" Pad w/(4) #4 E.W.12. Floor Framing Members: 11 7/8" TJI Pro 250. Typical Spacing: 1'-4" except where noted at Chart Room Area. 13. Floor Joist Members 1'-0" o.c. this area 14. (2) 2x6 header at 36" wide opening

through pony wall at crawl space 15. 22" x 30" min. crawl space access with recessed ring handel. Trim with Floor Finish for this room and rubber transition strip at access panel. 16. Interior Garage Foundation: 1'-4" x 8" Footing w/ (2) #4 Cont. w/ 6" stem wall w/ #4 vert. alt. hooks at 2'-8" o.c. w/ #4 Horiz @ 1'-0" o.c. 17. Cricket Conc. Slab slightly to promote drainage to the exterior. 18. 4" deep x 16" long x width of fnd.

wall block out for HVAC/Mech 19. Ventwell for EF5 — see mechanical.

w/ washed rock base down for fnd. drain 20. Ventwell and 8"x16" Witten Automatic Foundation Vent. Pack Foundation Wall full of rigid insulation.

General Note:

Dim. to Face of fnd wall or Face of footing or Face of pony wall studs



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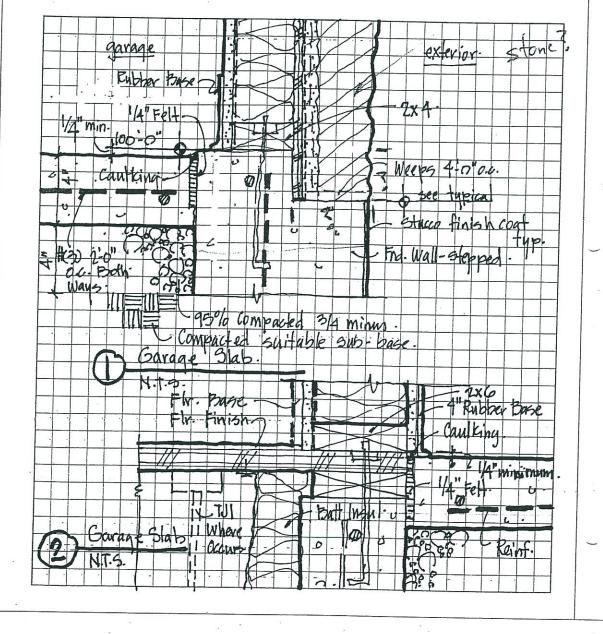
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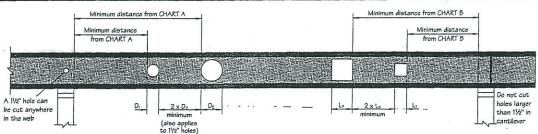
FOUNDATION PLAN

Desert Sage Health Cente 2280 American Legion Blvd. Mountain Home, Idaho

Mar 2004



HOLE CHARTS-ROUND, SQUARE AND RECTANGULAR HOLES



How to use these charts

- 1. Determine the hole shape (round, square or rectangular) and select the appropriate CHART A or B.
- 2. Under HOLE SIZE, locate the column which meets or exceeds the size of hole you require.
- 3. Use the first two columns to identify the TJI® joist series and depth being used in your floor or roof system.
- 4. Scan right across the row until you intersect the column which contains the hole size you selected. The value shown is the required minimum distance from edge of the hole to the the inside face of the nearest support.

CHART A - ROUND HOLES
MINIMUM DISTANCE FROM INSIDE FACE OF ANY SUPPORT TO NEAREST EDGE OF HOLE

105									Old						
		星雄		温温		遊歷								12	
	LOTE	2'-0"	2'-6"	3'-6"	4'-6"	6'-6"	7'-0"								
		1'-6"	2'-6"	3'-6"	5'-0"	6'-6"	7'-6"								
	可以重	2'-0"	30.	4'-0"	5'-6"	7'-6"	8'-0"	1							
		1'-0"	1,-6,	2'-6"	3'-0"	4'-0"	4'-0"	5'-0"	6'-6"	8'-0"		٠.			
	100	1'-0"	1'-0"	1'-6"	3'-0"	4'-0"	4'-0"	5'-0"	7'-0"	8'-6"					
272	250	1'-0"	1'-6"	2'-6"	3'-6"	5'-0'	5'-0"	6'-0"	8,-0,	9'-0"		2			
		1'-0"	2'-6"	3'-6"	4'-6"	5'-6"	6'-0"	7'-0"	9'-0"	10'-0"					
		1'-6"	2'-6"	4'-0"	5'-0°	6'-6"	7'-0"	8'-0"	9'-6"	10'-6"					
		1'-0"	1'-0"	1'-0"	2'-0"	2'-6"	3'-0"	3'-6"	4'-6"	5'-0'	5'-0"	7'-0"	8'-6"		
		1'-0"	1'-0"	10.	10.	2'-6"	2'-6"	3'-6"	5'-0"	6'-0"	6'-6"	8'-6"	10'-0"		
		1'-0"	1'-0"	1'-0"	2'-6"	3'-6"	4'-0"	5'-0"	6'-6"	7'-0"	8'-0"	9'-6"	11'-0"		
		1'-0"	1'-0"	2'-0"	3'-6"	5'-0"	5'-6"	6'-6"	8'-0"	8'-6"	9'-0"	10'-6"	12'-0"		
		1'-0"	1'-0"	1'-0"	1'-0"	1,-0,	1'-0"	1'-0"	2'-0"	3'-0"	4'-0"	5'-6"	6'-6"	9'-0"	11'-0
		1'-0"	1'-0"	1'-0"	1'-0"	1,-0,	1'-0"	2'-6"	4'-0"	5'-0"	5'-6"	7'-0"	8'-0"	10'-6"	12'-6
		1'-0"	1'-0"	1'-0"	1'-6"	3'-0"	3'-6"	4'-6"	6'-0"	7'-0"	7'-6"	9'-0"	100.	12'-0"	13'-6





CHART B - SQUARE OR RECTANGULAR HOLES MINIMUM DISTANCE FROM INSIDE FACE OF ANY SUPPORT TO NEAREST EDGE OF HOLE

									1.5	e Allie			宗外印	提問用	your the
							ē.				攜選		Land I	a U	100
拉拉拉拉拉拉拉	THE REAL PROPERTY.	2'-0"	3'-0"	4'-0"	6'-0"	6'-6"	6'-6"								
		1'-6"	3'-0"	4'-0"	-60.	-61-6"-	·6'-6°								
		2'-0"	3'-0"	4'-6"	6'-6"	7'-0"	7'-0"		·						
建筑纸	TIE.	1'-6"	2'-6"	3'-6"	4'-6"	6'-6"	7'-6"	8,-0,	8'-6"	9'-0"					
	图型	1"-0"	1'-6"	3'-0"	4'-6"	6'-6"	7'-6"	8'-0"	8'-6"	9'-0"				1	:
超進區		1'-0"	2'-0"	3'-6"	5'-6"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"					
		1'-6"	.3'-0"	4'-6"	6'-0"	7'-6"	8'-6"	9'-0"	9'-6"	9'-6"					
	500	3'-6"	4'-6"	6'-0"	7'-6"	9'-0"	9'-6"	9'-6"	10'-0"	10'-6"	*5	*			
洲洲部城市 的	013	1'-0"	2'-0"	3'-0"	4'-0"	5'-6"	5'-6"	7'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-6"		
	38.00	1'-0"	1'-0"	2'-0"	4'-0"	60.	6'-6"	8'-0"	10'-0"	10'-6"	10'-6"	11'-0"	12'-0"		
	訂牒	1'-0"	1'-0"	3'-0"	5'-0"	6'-6"	7'-0"	9'-0"	10'-6"	10'-6"	11'-0"	11'-6"	12'-0"		
		2'-6"	4'-0"	5'-6"	7'-0"	8'-6"	9'-0"	10'-0"	11'-6"	11'-6"	12'-0"	12'-6"	13'-0"		
		1'-0"	10.	1'-0"	1'-0"	2'-0"	3'-0"	4'-6"	6'-6"	8'-6"	8'-6"	9'-6"	10'-0"	11'-0"	11'-6
		1'-0"	1'-0"	1'-0"	1'-6"	4'-0"	4'-6"	6'-0"	80.	10'-0"	10'-0"	11'-0"	11'-6"	12'-6"	13'-0
	可 購	1'-0"	2'-6"	4'-6"	6'-0"	8'-0"	8'-6"	9'-6"	11'-6"	13'-0"	13'-0"	13'-6"	14'-0"	15'-0"	15'-6

FULL-WEB-DEPTH RECTANGULAR " HOLES-ARE ALSO POSSIBLE. ······ CONTACT YOUR - TRUS JOIST MACMILLAN REPRESENTATIVE FOR ASSISTANCE.

GENERAL NOTES

- If more than one hole is cut into the web, the distance between the edges of the holes must be at least 2x the length of the largest hole.

 Holes may be located vertically anywhere within the web. Leave '8' of web minimum at top and bottom of hole.

 TIP joist are manufactured with 11½' perforated knockouts in the web at approximately 12' on-center along the length of the joist.

 Distances in the charts above are based on uniformly loaded joists using the maximum loads shown for any of the tables listed within this brochure. For other load conditions or hole configurations not included in these charts, refer to our 17-Beam' software or contact Vour Trus Joist MacMillan representative.

 For simple span (5 foot minimum) uniformly loaded joists meeting the requirements of this brochure, one maximum size round hole may be located at the center of the joist span provided no other holes occur in the joist. DO NOT cut into joist flanges when cutting the web.

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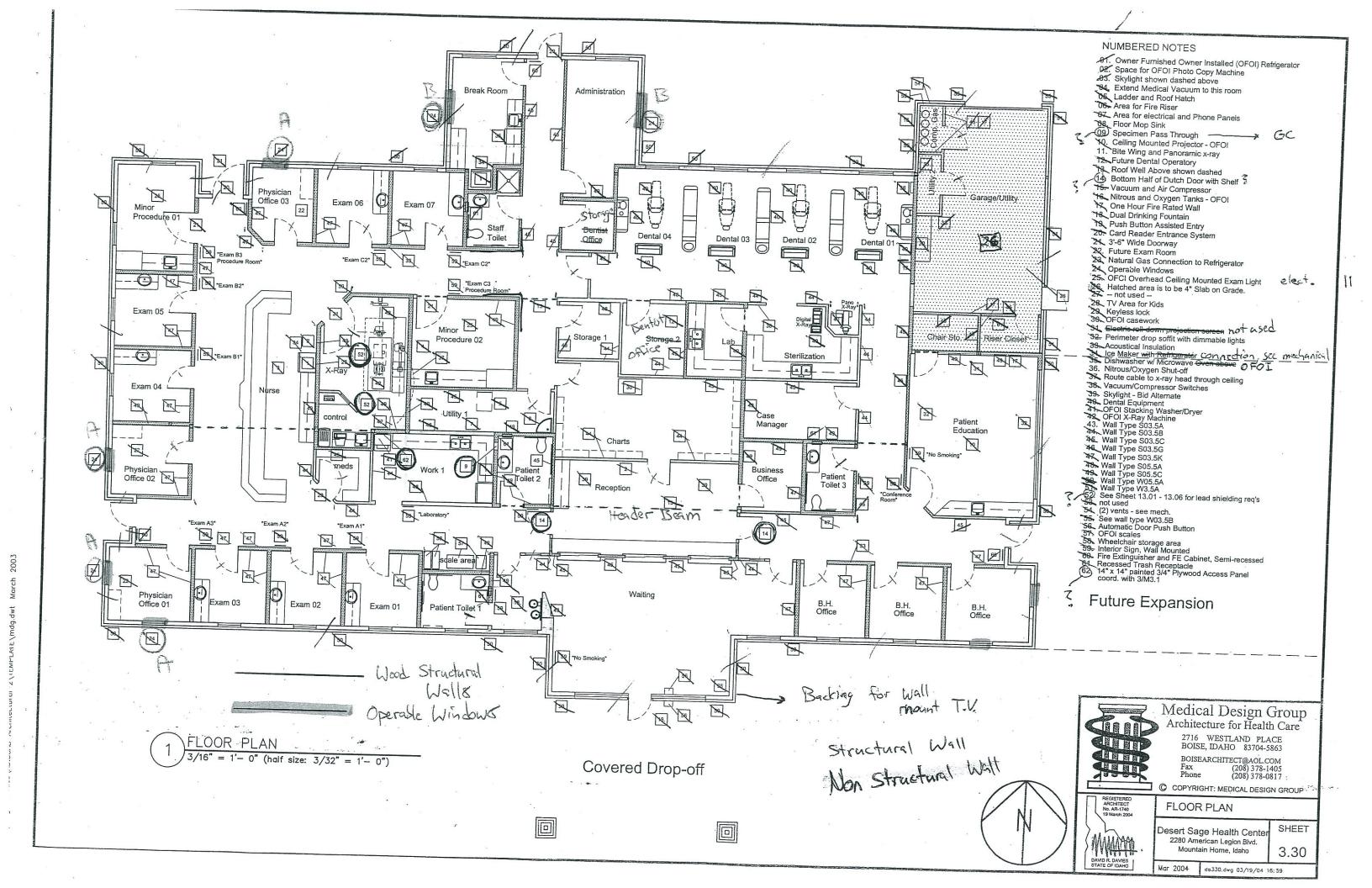
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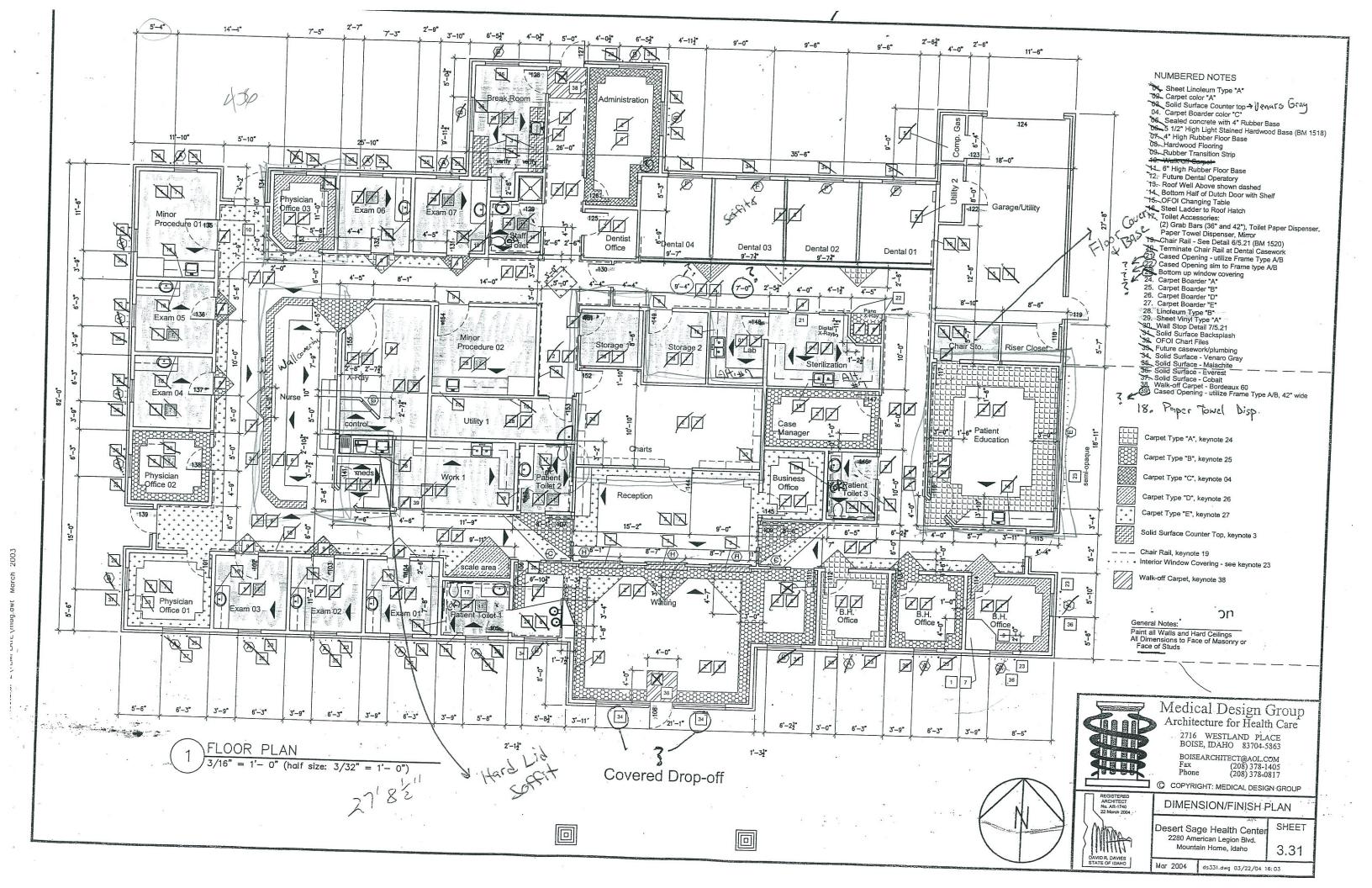


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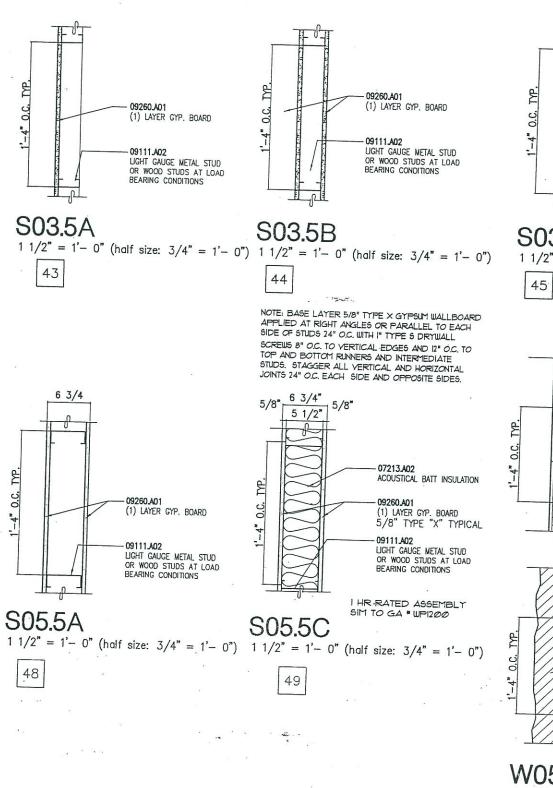
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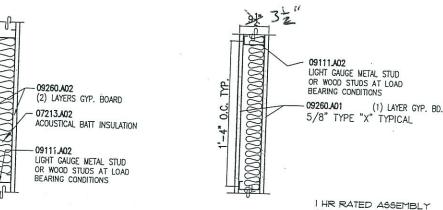








NOTE: BASE LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO EACH SIDE OF STUDS 24" O.C. WITH I" TYPE 5 DRYWALL SCREUS 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS 24" O.C. EACH SIDE AND OPPOSITE SIDES.



S03.5C

 $1 \frac{1}{2}$ " = 1'- 0" (half size: $\frac{3}{4}$ " = 1'- 0")

STRUCTURAL WOOD SHEATHING

2X6 WOOD STUDS @ 1'-4" O.C. MAX.

(1) LAYER 5/8" TYPE "X" GYPSUM BOARD

VAPOR RETARDER

WEATHER BARRIER

STUCCO SYSTEM

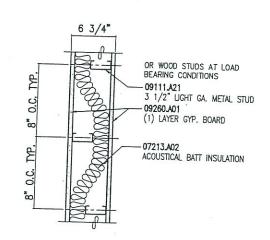
EPS INSULATION

(1) LAYER GYP. BD.

I HR RATED ASSEMBLY SIM TO GA * WP1200

S03.5G $1 \frac{1}{2} = 1' - 0"$ (half size: $\frac{3}{4} = 1' - 0"$)

46



S03.5K

 $1 \frac{1}{2}$ " = 1'- 0" (half size: $\frac{3}{4}$ " = 1'- 0")

47

STRUCTURAL WOOD SHEATHING

2X4 WOOD STUDS @ 1'-4" O.C. MAX.

(1) LAYER 5/8" TYPE "X" GYPSUM BOARD

VAPOR RETARDER

WEATHER BARRIER

STUCCO SYSTEM

EPS INSULATION

NOTE: BASE LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO EACH SIDE OF STUDS 24" O.C. WITH I" TYPE S DRYWALL SCREWS 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS 24" O.C. EACH SIDE AND OPPOSITE SIDES.

Same as Wall Type W03.5A except replace the Structural Wood Sheathing with One Layer 5/8" Type "X" Gypsum Board

W03.5B

I HR RATED ASSEMBLY SIM TO GA * WP1200

STRUCTURAL WOOD SHEATHING STRUCTURAL WOOD SHEATHING VAPOR RETARDER VAPOR RETARDER WEATHER BARRIER WEATHER BARRIER CULTURED STONE VENEER CULTURED STONE VENEER 2X6 WOOD STUDS @ 1'-4" O.C. MAX. 2X4 WOOD STUDS @ 1'-4" O.C. MAX. - (1) LAYER 5/8" TYPE "X" GYPSUM BOARD (1) LAYER 5/8" TYPE "X" GYPSUM BOARD

0.C

W05.5A

 $1 \frac{1}{2}$ " = 1'- 0" (half size: $\frac{3}{4}$ " = 1'- 0")

50

W03.5A $1 \frac{1}{2}$ " = 1'- 0" (half size: $\frac{3}{4}$ " = 1'- 0")

51

AT LOAD BEARING WALLS, UTILIZE WOOD STUDS, TOP/BOTTOM PLATES AND HEADER MEMBERS PER STRUCTURAL PLANS/SPECS. SEE SHEET 3.50

50

SEE NUMBERED NOTES, SHEET 3.30



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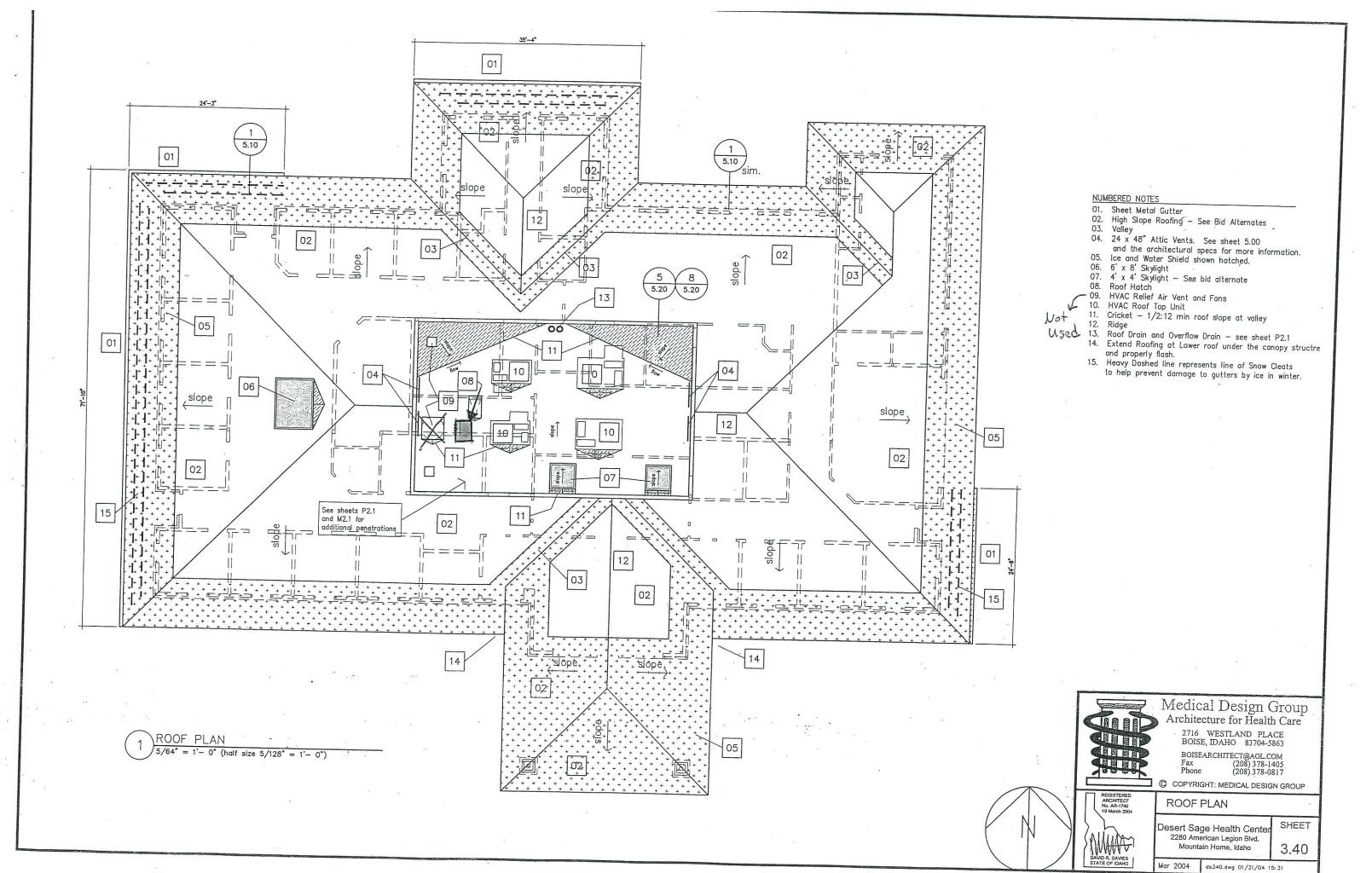
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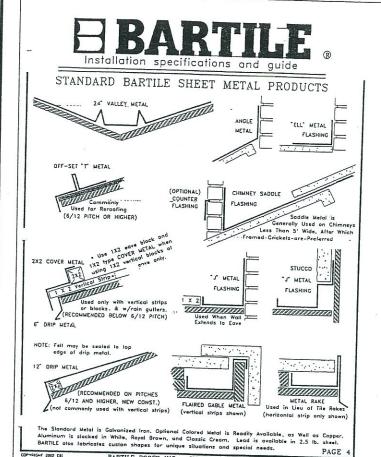
WALL ASSEMBLIES

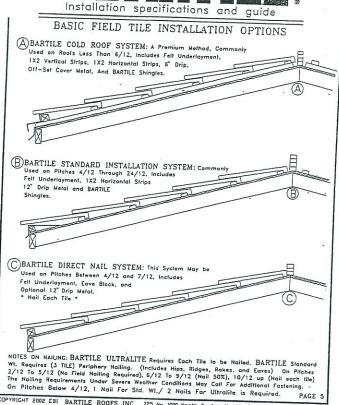
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BARTILE BATTEN LAYOUT

* 1. Begin With 5' 1x2 Eave Blocks (On 16' Centers). Eave Strip. Ridge Nailer, and 1st and Last Strip.

2. Measure Distance (in INCMES) Between 1st and Last Strip, and Divide by 12.25 (for 3' Headdap)

3. If the Resulting Number is not Even, ROUND UP, and Divide Into the same total distance (in inches)

4. The Number Generaled by This Formula is the Average Dimension Between Each Strip(round to 1/8')

5. If Preferred, an Alternale SWING TAPE Method can be used. (use 12 1/4' spacing on swing tape)

NOTE: 1st. Course for SHAKE and SLATE is 13 1/2.

NOTE: 1st. Course for SHAKE and SLATE is 13 1/2.

EUROPEAN (13 1/4°), and SIERRA MISSION (12 1/2°)

Last Course is 1 1/4° Below Ridge Board.

*(Shown is an allernate cave detail, which
uses a 1x2 cover metal, mounted
over a 1x2 strip, which bridges
over 6 in. 1x2 blocks. This
may be used at eave in
, lieu of 12 in. Orip.)

* ALTERNATE EAVE DETAIL
5 In. Drip Metal
1x2 Cover Metal Mounted Ov
1x2 strip. Over 1x2 5 in. Blacks
(Alternate to 12" DRIP over 2x2)
See Page 4 for Eave Options. Some "RENAISSANCE" Profile
Require a Maximum Spacin
of 10 1/2" per Cours IE: COTTAGE (STAGGER). OLD MISSION

NOTE: A Chalk Line Should Always be U To Place Botten Strips Straight.

TO PIGE BOTTON STRIPS STRIPS TO THE STRIPS TO STRIPS TO

PAGE 6

VALLEY METAL AND INSTALLATION BARTILE Cold Roof System (Using Vertical Strips) Use BARTILE 24 Double Rib Valley

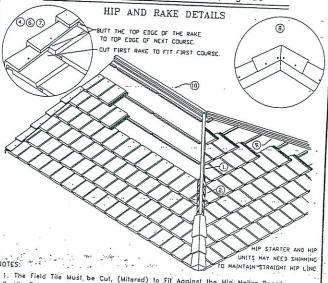
NOTES:
Underloyment may be sealed to drip Metal and waven at valley, (or run bleeder sheet at valley)
Underloyment may be sealed to drip Metal and waven at valley, (or run bleeder sheet at valley)
In ice and snow climates, valley metal should be set in mastic. Lap valley metal sections of min.
Use code approved underlyment, according to the climatic conditions applicable to the job.

Avoid penetrating valley metal while noiling file. (use mastic instead) Avoid using small pieces.

Aprille recommends a closed valley (as shown), but an open valley is acceptable, where decomed appropriate) Do not block valley metal channel, nor drainage next to ribs in any way. PAGE 7

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BARTILE ROOFS INC. 725 No. 1000 Vest Centervale Ut. 84014 Phone (891) 29:



1. The Field Tile Must be Cut, (Mitered) to Fill Against the Hip Nailer Board.

1. The Field Tile Must, be Cut, (Milered) to Fil Against the Hip Nailer Board.

2: Hip Cuts may be Grouted (Shown), or Covered With Flashing Tope, if Desired.

3. Hip Units are Nailed With Two 16d Galv. Nails. (One Nail is Exposed)

4. For Flat Tile, Every Other Course Must Start With a Cut Half Tile. (Half Bond)

5. Universal Rake Units Cover Either Side, Nail Through Either Side, (Not Top Hole)

6. First Rake Must be Cut to Fit the First Course of Tile. (Drill as Required)

7. Facet Rake Gavers One Course of Tile. Bult into Top Edge of Next Course.

8. The Last Rake Units at Crown Must be Milered Together. (Drill as Required)

9. Hip Nailer Boards are Usually a Stack of 1x2 Strips 4 or 5 High, as Required.

10. Ridge Nailer Boards are Usually 3 to 5 Strips High, as Required.

EUROPEAN AND SIERRA MISSION TILE ARE LAID STRAIGHT BOND, NOT OFF—SET.

(Lay 5 Tile Wide, From Eave to Ridge, Verify Straight, Then Repeat)

PAGE 9

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CHIMNEY AND WALL FLASHING DETAILS

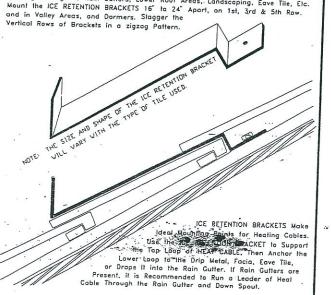
NOTES:

Roll the underloyment up the wall about 3 on all sides. Seel vater light, Larve a 1-Z spening between batters, and valls, for declinage, install metal as shown, attaching only to vall, and seel. Counterflashing may be used. When wall terminates at a near save, 37 MCTAL may be the preferred side well flashing, but the sidewall filled with the sidewall filled wit

FIELD TYPE ICE BRACKETS

* In SEVERE WINTER CLIMATES, Massive Ice Buildup at the Eave Can Cause Domage. ICE RETENTION BRACKETS and/or HEAT CABLES can Reduce or Eliminate This Problem

The ICE RETENTION BRACKETS are Nailed or Bolled to the Deck, Through the Vertical Strip (if Used) and Deck. The ICE RETENTION BRACKET is Designed to Hold the Ice Buildup in Place and Prevent if from Sliding Down the Roof, Causing Damage to Rain Gutters, Lower Roof Areas, Landscaping, Eave Tile, Etc. and in Volley Areas, and Dormers. Slagger the



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TYPICAL ROOF DETAILS

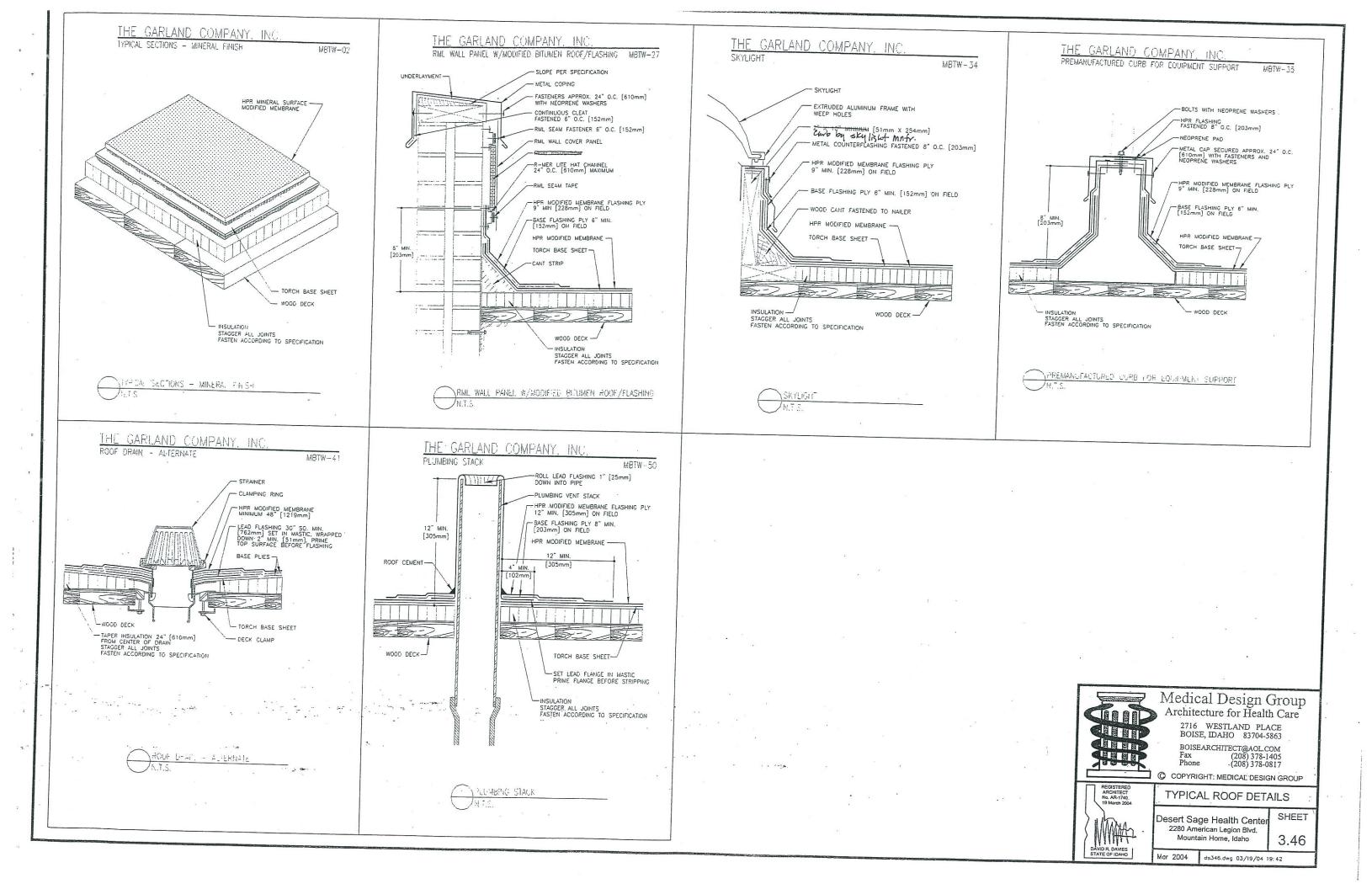
Desert Sage Health Cente 2280 American Legion Blvd. Mountain Home, Idaho

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2003



CAPSTONE PRODUC

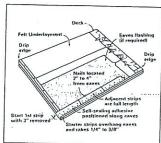
DIRECTIONS FOR APPLICATION

THESE APPLICATION INSTRUCTIONS ARE THE MINIMUM REQUIRED TO MEET 19.K'S APPLICATION REQUIREMENTS, FAILURE TO USE THESE INSTRUCTIONS MAY VOID THE PRODUCT WARRANTY, IN SOME AREAS THE BUILDING CODES MAY REQUIRE ADDITIONAL APPLICATION TECHNIQUES OF ARETHODS BEYOND OUR INSTRUCTIONS.
IN THESE CASES THE LOCAL CODE MUST BE FOLLOWED, UNDER NO CIRCUAISTANCES WILL ELK ACCEPT APPLICATION REQUIREMENTS THAT ARE LESS THAN THOSE PRINTED HERE SHINGLES SHOULD NOT BE JAMAED TIGHTLY TOGETHER, ALL ATTICS SHOULD BE PROPERLY VENTILATED.

DECK PREPARATION

ROOf decks should be dry, well seasoned 1"x 6" (2.54 cm x 15.24 cm) boards, exterior grade plywood at least 3/8" (0.95 cm) thick and conform to the specifications of the American Plywood Association, 7/16" (1.11 cm) oriented strandboard, or chipboard, Fire retardant plywood decking is NOT an approved substrate for Capstone shingles.

Use non-perforated 15 to 30 pound asphalt saturated felt. Underlayment is required on new construction and recommended for rerooting.



Use one layer of underlays shown in Drawing LA. LOW SLOPE 2/12 to 4/12. Completely cover the deck with two plies of felt

STANDARD SLOPE: 4/12 to 21/12.

DO NOT

FASTEN

PROPER

PROPER

truderlayment overlapping a minimum of 18" (45.72 cm). Begin by fastening an 18" (45.72 cm) wide felt underlayment along the caves. Next, apply a ...full. 36" (.91.44.cm) ..wide..felt..sheet. horizontally along the eaves. Next, apply a full 36" (91.44 cm) wide and

HAVE FLASHING (ICE DAMS) localities where leaks may result by a water back up near an ice dam.

STANDARD SLOTE M12 to 24/12. Use coated roll rooting of not less that 50 pounds (22.68 kg) over the felt underlayment extending from the cave edge to a point at least 12° (30.48 cm) beyond the inside wall,

1.0W/SLOPE 2/12 to 4/12. Use a continuous layer of asphalt plastic cement between the two plies of underlayment from each edge up roof to a point at least 24" (60.96 cm) beyond the

MIETAL DRIP EDGES

Aleial drip edges are recommended along rake and cave edges of all deeks. Coosult the Elk Tusculoosa, Alabama Salea Office for application specifications over other deeks and other

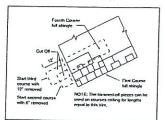
1.0W SLOPE: 2/12 to 4/12. Use a continuous layer of asphalt plastic cement between the two plies of underlayment from each edge up roof to a point at least 24" (60.96 cm) beyond the

METAL DRIP EDGES

(30,48 cm) beyond the inside wall.

Aletal drip edges are recommended along rake and cave edges of all decks. Consult the Elk Tuscaloosa, Alabama Sales Office for application specifications over other decks and other

SHINGLE APPLICATION



VALLEY CONSTRUCTION



STARTER COURSIE Use a self-sealing strip shingle with the tabs trimmed off and applied with the adhesive strip positioned at the caves edge. With at least 3" (7.62 cm) trimmed from the end of the shingle, start at the rake edge overhanging the cave 1/4" to 3/8" (0.64 cm to 0.95 cm). Fasten 2" (5.08 cm) from the lower edge and 1" (2.54 cm) from the lower edge and 1" (2.54 cm) from the lower edge and 1" (2.54 cm) from each side (see Drawing 1.As). rom each side (see Drawing LA).

our me cave coge to a point at least 12

FIRST COURSE: Start at rake and continue course with full shingles laid flush with the starter course. Refer to

SECOND COURSE Start at the rake with shingle having 6" (15.24 cm) frimmed off and continue across roof with full shingles.

THIRD COURSE Start at the rake with slingles having 12" (30.48 cm) trimmed off and continue across roof with full shingles. FOURTH COURSE: Start at the rake and continue with full shingles across the roof.

FIFTH AND SUCCEEDING COURSES: Repeat—application—as shown for second, third, and fourth courses.

Additional Informat

ODUCT APPLICATION

HIP AND RIDGE SHINGLE

STARTED AND

JAY VOID

REQUIRE

ICTIONS.

If you na ARELESS

shingle u TRHTTA

STAPLES: ed on new

Special on to 21/12

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t, apply a

wide and ourse by

E DAMS)

reroofs as

NAILS: (

to sink int

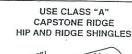
can cause

MANSA

Correct fa

For slopes area 1" (2 the length

High wind



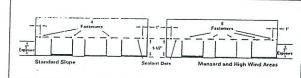
and protected from the weather.

Do not store neat steam pipes,
radiators, firmaces, or other sources of heat. Do not store indirect studight until applied,
DO NOT DOUBLE STACK PALLIES, Systematically rotate all stock so the material stored
the longest will be the first to be moved out.

FASTENERS

Help stap blow-offs and call-backs.

While nailing is the "preferred" fastening method for Capstone shingles, Elk Corporation of Alabama will accept fastening methods according to the following instructions: Four to six fasteners must be driven into the 100.00 JETHICKNESS area of the shingle. Nails or staples must be about fastening that makes I fastening the makes I for the property of the prop



PROPERLY AND IMPROPERLY DRIVEN NAILS



l" to 3/8" (0.64 i 2" (5.08 cm) .l 1" (2.54 cm)

at rake and

all shingles laid ourse. Refer to

art at the rake i" (15.24 cm) tue across roof

art at the rake

ING COURSES:

wing 1.A).

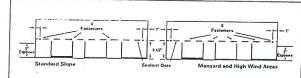
IMPORTANT: Do not remove tape on back of shingle.

SHINGLE DIMENSIONS: 12-1/8"

(5" [12.7 cm]).

CAUTION: By careless and improper storage or handling, liberglass shingles can be harmed. Keep these shingles completely covered, dry, reasonable cool. and protected from the weather

PROPER FASTENER LOCATION





onsult the 13k

If you nail correctly, you will penetrate both layers of the shingle and the top portion of the shingle under it. This gives you double protection. You will reduce the chances of blow-offs, and you will not joopardize your warranty. If you fisten above the scalant dots you will miss the shingly below and obtain no secondary fasterning. a self-sealing as trimmed off adhesive strip edge. With at amed from the at the rake edge

BLK Capstone shingles have a U.L. Wind Resistance Rating when using nails or staples on

NAILS: Galvanized, 3/8" (0.95 cm) head, 10 to 12 gauge barbed shank roofing nails. Aliminum 3/4" (1.91 cm) penetration in deck, 1-1/4" (3.18 cm) nail required for new construction and 1-1/2" (3.81 cm) nail required for reroofing. Nails should be long enough to sink into and hold in a sound nailing base.

STAPLES: Galvanized, 16 gauge minimum, crown width minimum of 15/16" (2.38 cm). Minimum 3/4" (1.91 cm) penetration in deck.

Special care must be taken in the use of staple guns. Staples must be driven with the gun accurately adjusted to ensure the entire entire bears ughtly against the shingle buy does not cut the shingle surface. An improperly adjusted staple gun can result in raised staples which can cause a fish-mouthed appearance and can prevent scaling,

MANSARD AND HIGH WIND AREA FASTENER LOCATION

at the rake with (30,48 cm) nue across roof Correct fastening is critical to the performance of the roof,

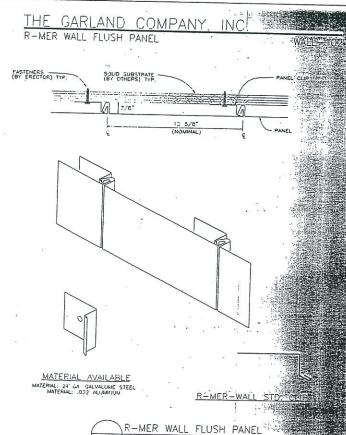
For slopes exceeding 60 degrees (or 21/12) use 6 fasteners. Locate fasteners in the fastener area 17: (2.54 cm) from each side edge with the remaining 4 fasteners equally spaced along the length of the double thickness area.

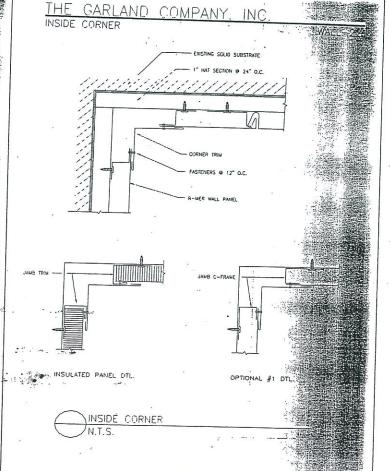
High wind areas are areas where sustained winds greater than 50 miles per hour (80.47 km/h)

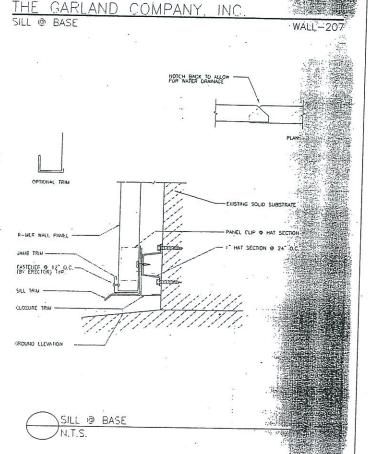
Correct fastening is critical to the performance of the roof, ELK CORPORATION will accept only fastening methods according to the above instruction



I Additional Information









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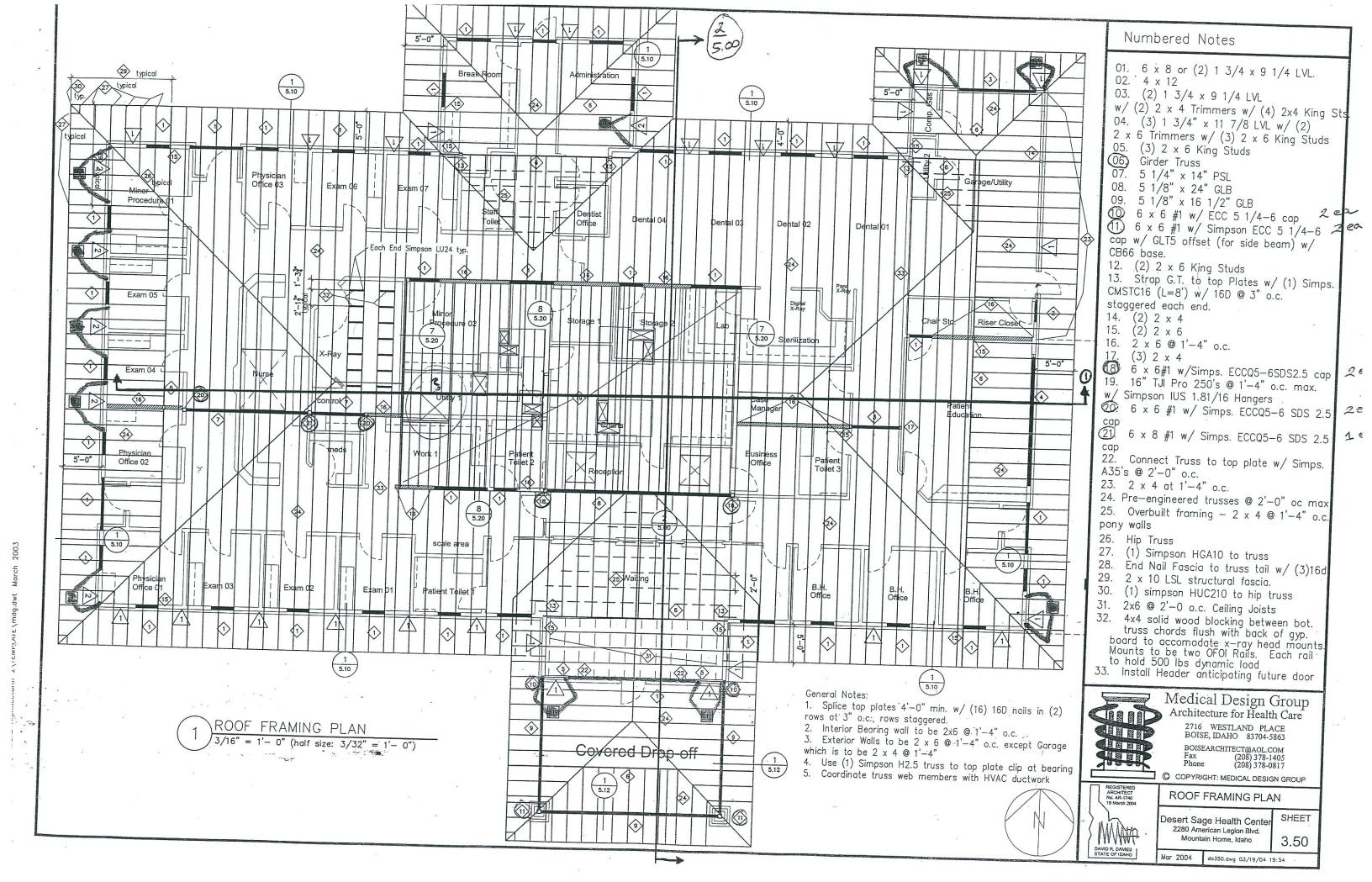
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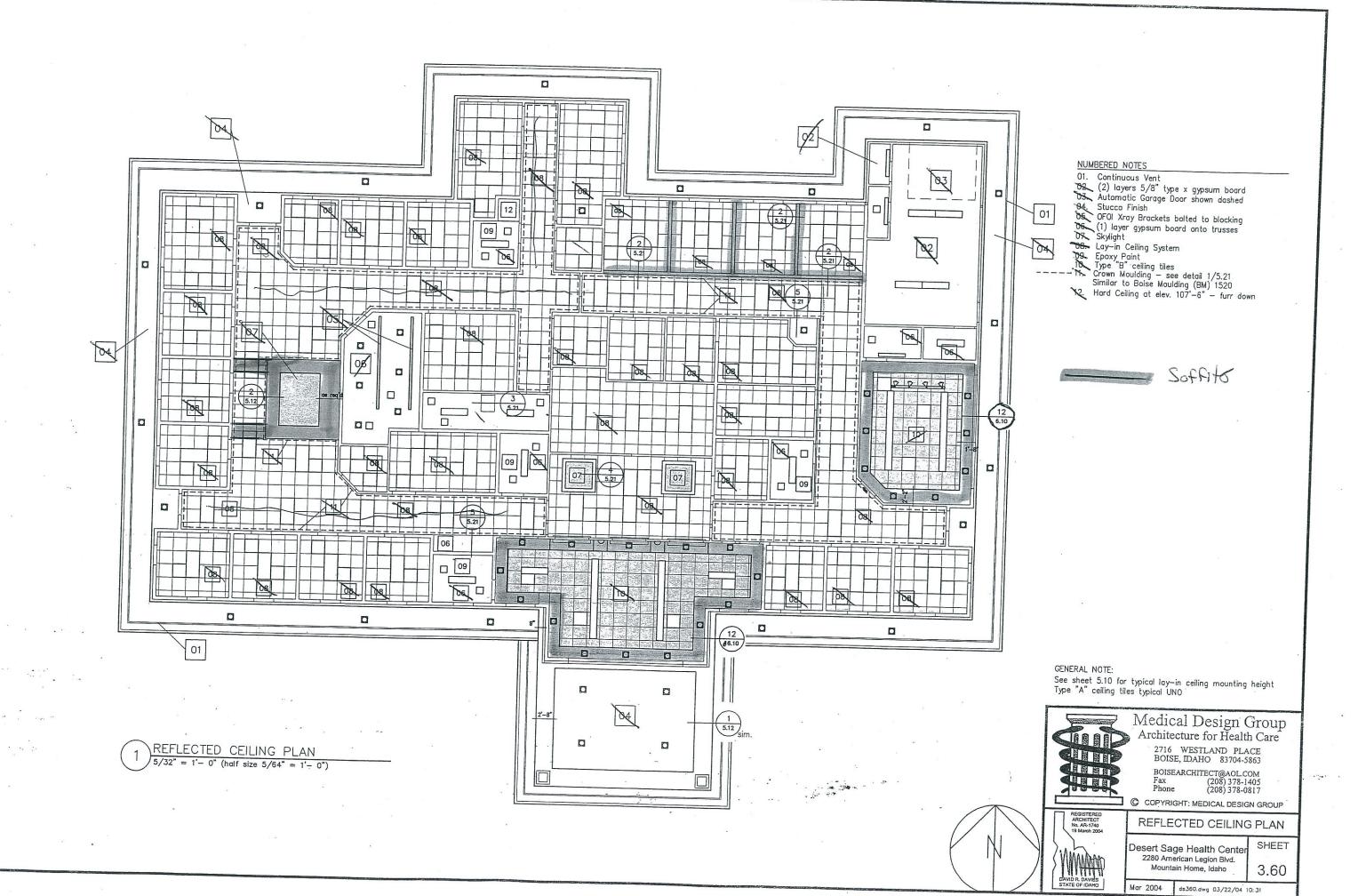
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ROOF/WALL PANEL DETAILS

Desert Sage Health Cente 2280 American Legion Blvd. Mountain Home, Idaho

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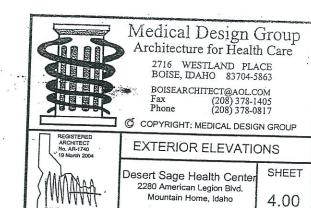






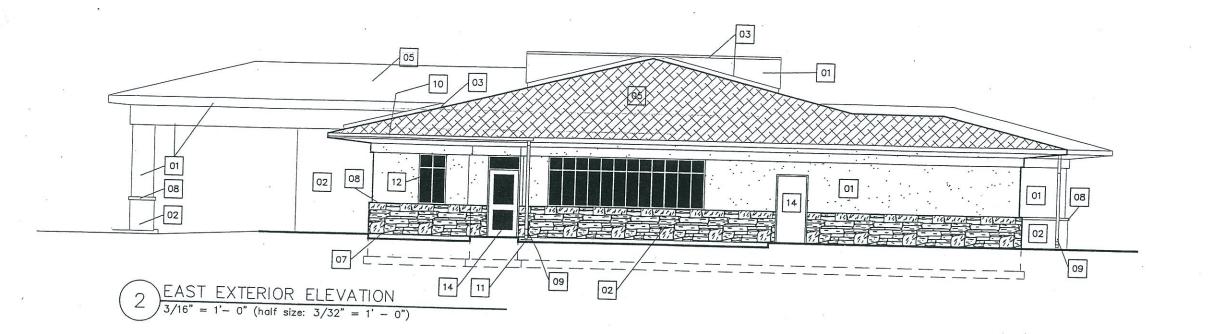


3/16" = 1' - 0" (half size: 3/32" = 1' - 0")



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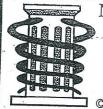
NUMBERED NOTES:

- 01. Stucco
- 02. Stone Veneer 03. Metal Flashing 04. Cast Letters
- 05. Roofing
- 06. Conc. Footing/Foundation
 07. Stucco Finish on exposed conc.
 08. Pre-manuf. stone cap

- 08. Pre-manuf. stone cap
 09. Downspout
 10. Gutter
 11. Pre-cast Conc. Downspout
 12. Window Assembly
 13. Skylight Assembly
 14. Door Assembly
 15. Light Fixture

07 02





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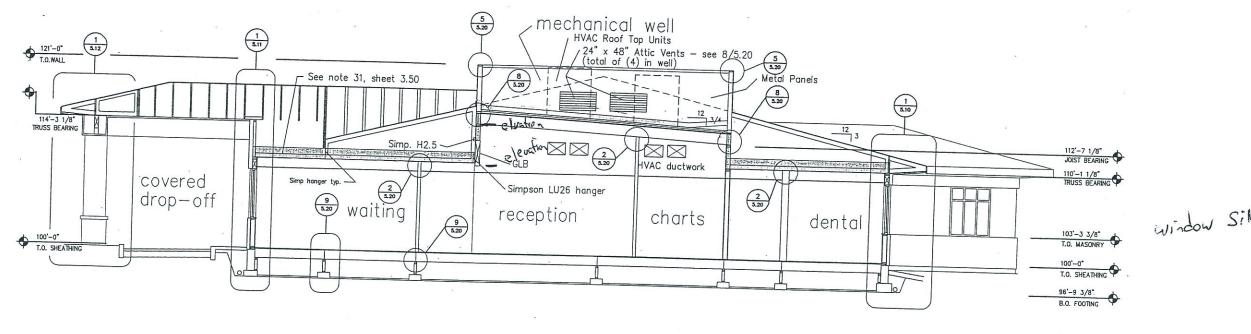
EXTERIOR ELEVATIONS

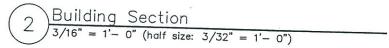
Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

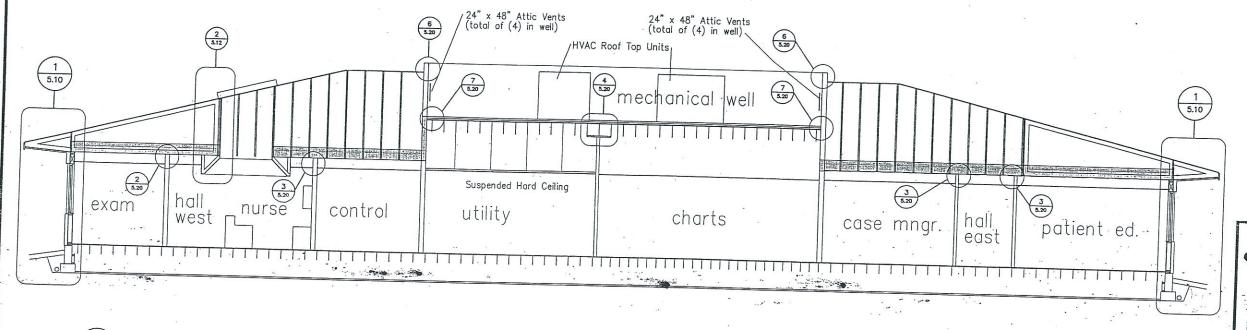
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Building Section $\frac{3}{3/16"} = 1' - 0"$ (half size: 3/32" = 1' - 0")



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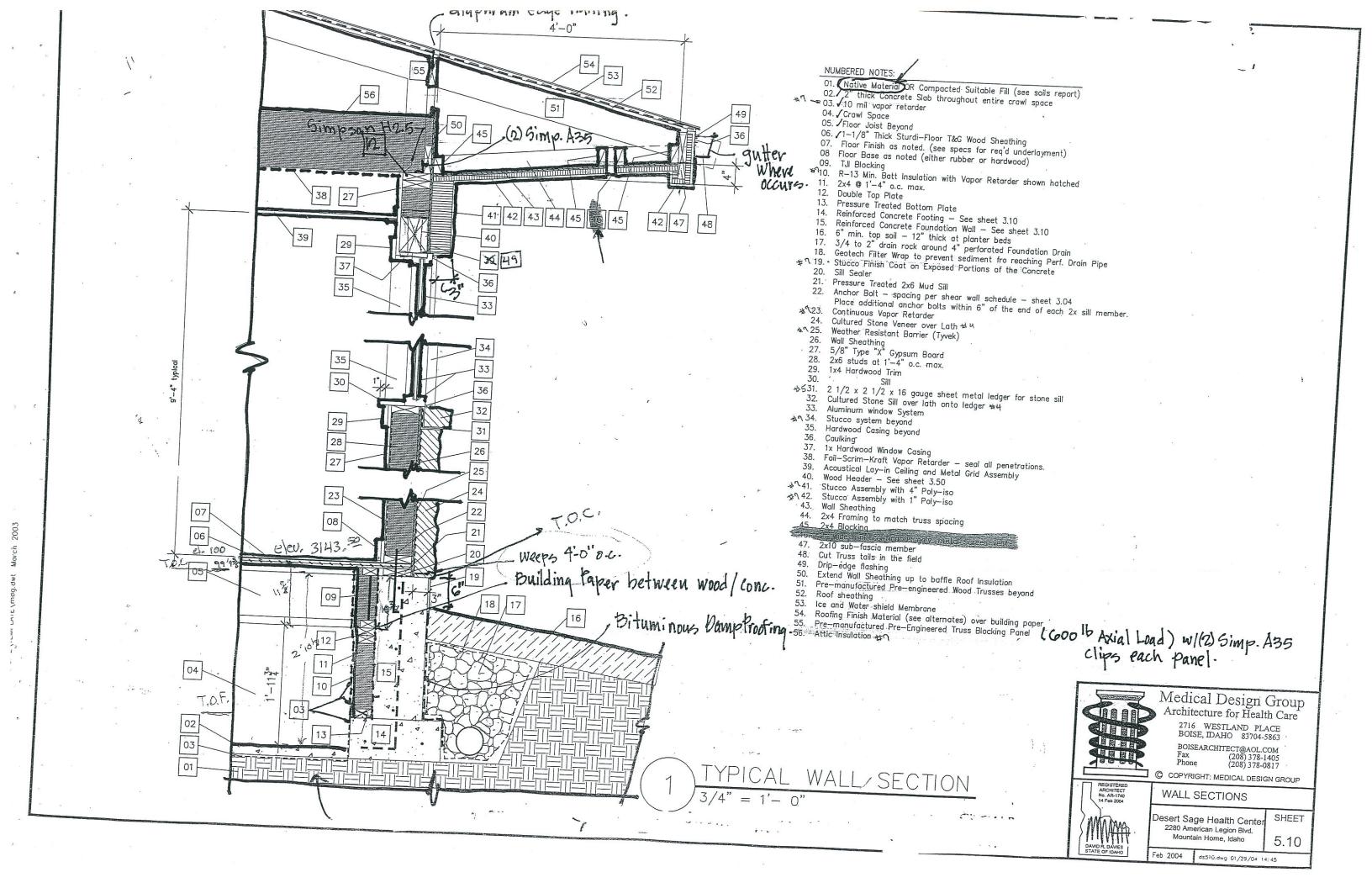


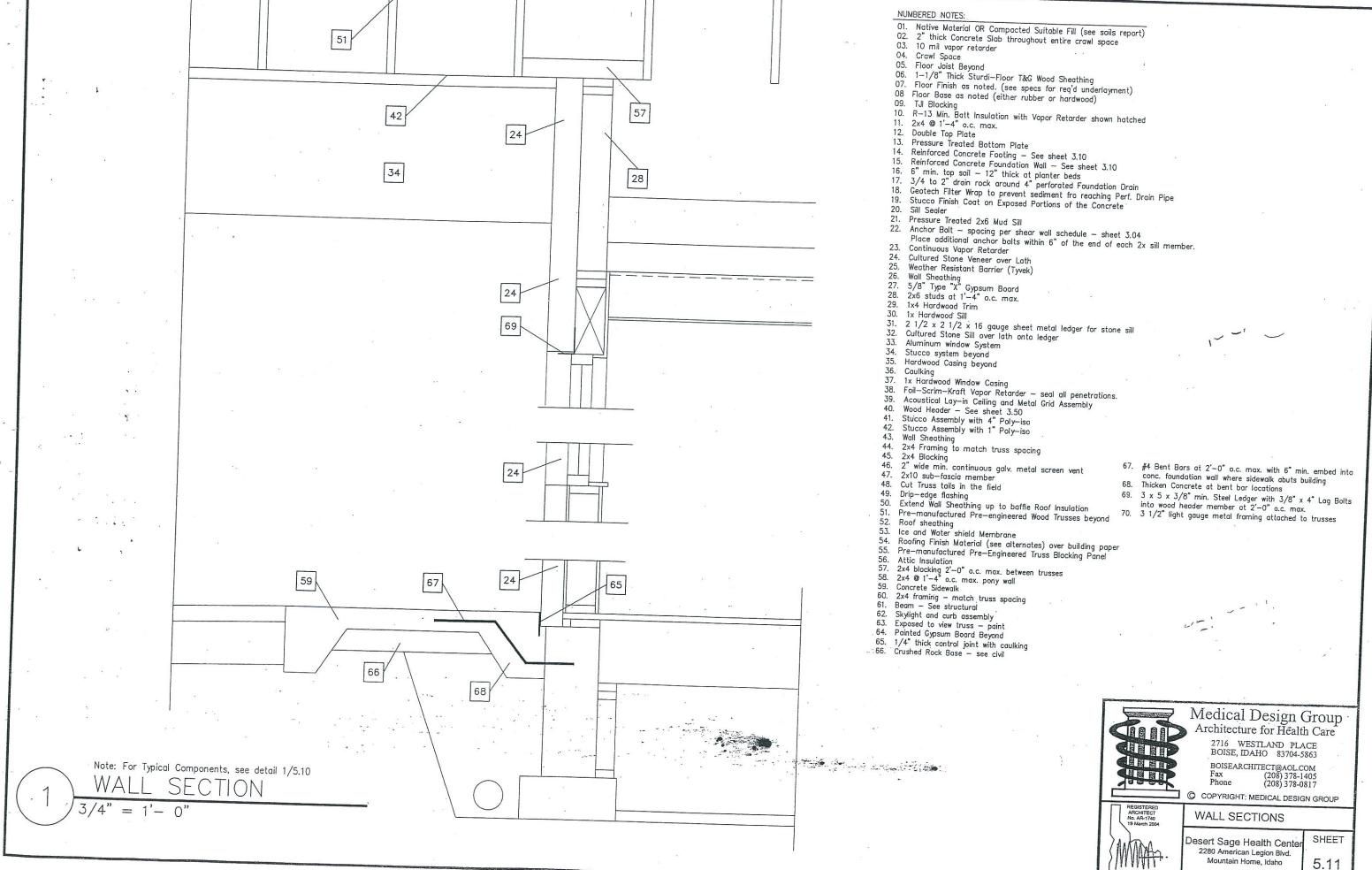
BUILDING SECTIONS

Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

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5.00

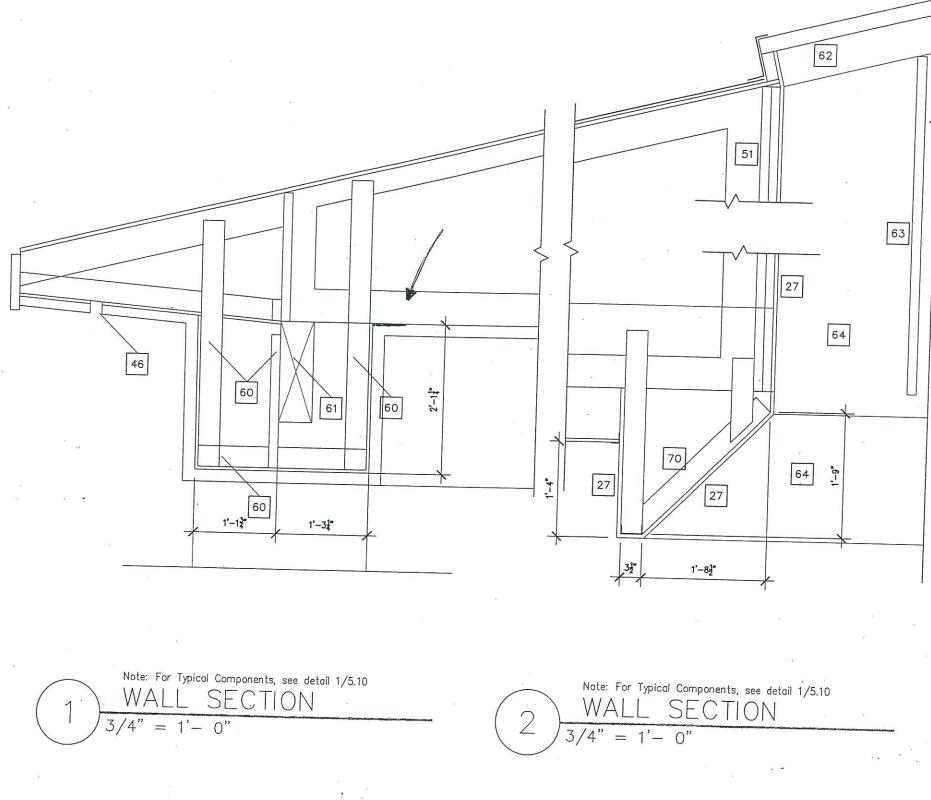






Mountain Home, Idaho

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01. Native Material OR Compacted Suitable Fill (see soils report) 2" thick Concrete Slab throughout entire crawl space 03. 10 mil vapor retarder 04. Crawl Space 05. Floor Joist Beyond 06. 1-1/8" Thick Sturdi-Floor T&G Wood Sheathing 07. Floor Finish as noted. (see specs for req'd underlayment)
08. Floor Base as noted (either rubber or hardwood) 09. TJI Blocking 10. R-13 Min. Batt Insulation with Vapor Retarder shown hatched 11. 2x4 @ 1'-4" o.c. max. 12. Double Top Plate Pressure Treated Bottom Plate Reinforced Concrete Footing — See sheet 3.10
Reinforced Concrete Foundation Wall — See sheet 3.10 6" min. top soil — 12" thick at planter beds 5 min. top soil — 12 trick at planter beas
3/4 to 2" drain rock around 4" perforated Foundation Drain
Geotech Filter Wrap to prevent sediment fro reaching Perf. Drain Pipe
Stucco Finish Coat on Exposed Portions of the Concrete Sill Sealer 21. Pressure Treated 2x6 Mud Sill Anchor Bolt — spacing per shear wall schedule — sheet 3.04 Place additional anchor bolts within 6" of the end of each 2x sill member. 22. Continuous Vapor Retarder Cultured Stone Veneer over Lath Weather Resistant Barrier (Tyvek) 25. Wall Sheathing
27. 5/8" Type "X" Gypsum Board
28. 2x6 studs at 1'-4" o.c. max. 29. 1x4 Hardwood Trim 30. 1x Hardwood Sill 31. $2 \frac{1}{2} \times 2 \frac{1}{2} \times 16$ gauge sheet metal ledger for stone sill 32. Cultured Stone Sill over lath onto ledger 33. Aluminum window System 34. Stucco system beyond 35. Hardwood Casing beyond 36. Caulking 37. 1x Hardwood Window Casing
38. Foil—Scrim—Kraft Vapor Retarder — seal all penetrations.
39. Acoustical Lay—in Ceiling and Metal Grid Assembly Wood Header — See sheet 3.50 Stucco Assembly with 4" Poly—iso 40. 42. Stucco Assembly with 1" Poly-iso 43. Wall Sheathing
44. 2x4 Framing to match truss spacing
45. 2x4 Blocking
46. 2" wide min. continuous galv. metal screen vent 67. #4 Bent Bars at 2'-0" o.c. max. with 6" min. embed into conc. foundation wall where sidewalk abuts building 47. 2x10 sub-fascia member 68. Thicken Concrete at bent bar locations Cut Truss tails in the field Drip-edge flashing
Extend Wall Sheathing up to baffle Roof Insulation

69. 3 x 5 x 3/8" min. Steel Ledger with 3/8" x 4" Lag Bolts into wood header member at 2'-0" o.c. max.

3 1/2" light gauge metal framing attached to trusses

55. Pre-manufactured Pre-Engineered Truss Blocking Panel 56. Attic Insulation 2'-0" o.c. max. between trusses 58. 2x4 @ 1'-4" o.c. max. pony wall

Pre-manufactured Pre-engineered Wood Trusses beyond

54. Roofing Finish Material (see alternates) over building paper

Ice and Water shield Membrane

59. Concrete Sidewalk

Roof sheathing

60. 2x4 framing — match truss spacing 61. Beam — See structural 62. Skylight and curb assembly

63. Exposed to view truss — paint

64. Painted Gypsum Board Beyond

65. 1/4" thick control joint with caulking 66. Crushed Rock Base — see civil

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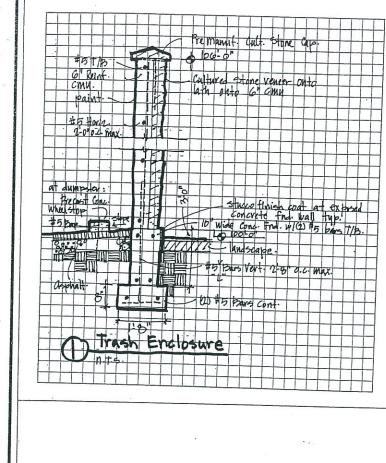


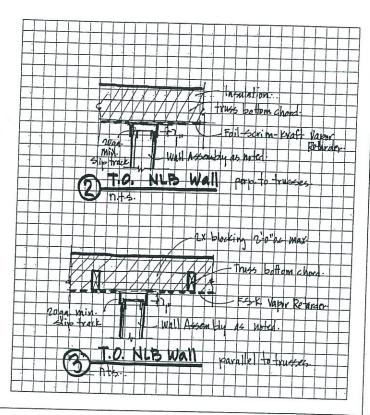
WALL SECTIONS

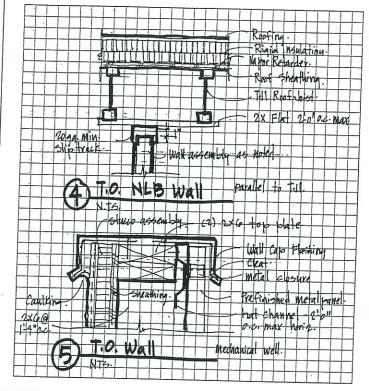
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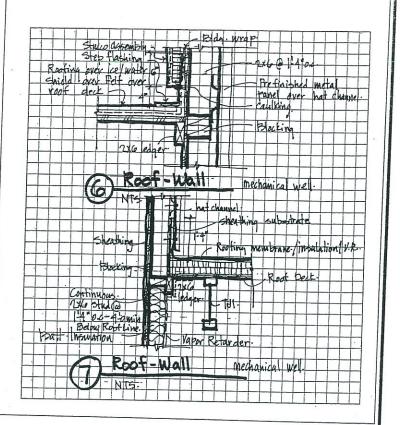
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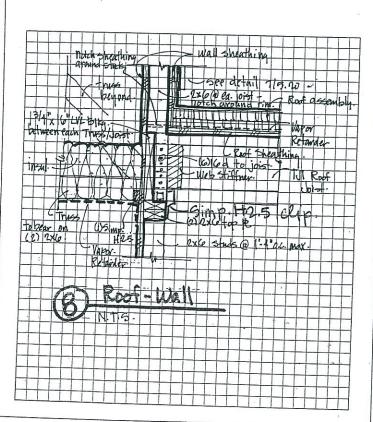
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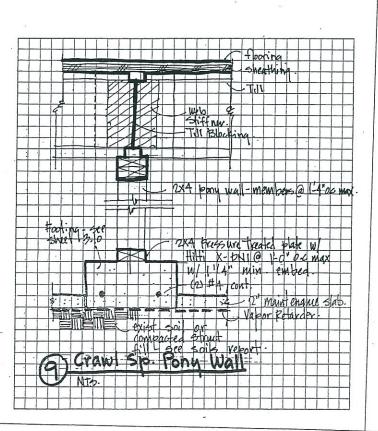


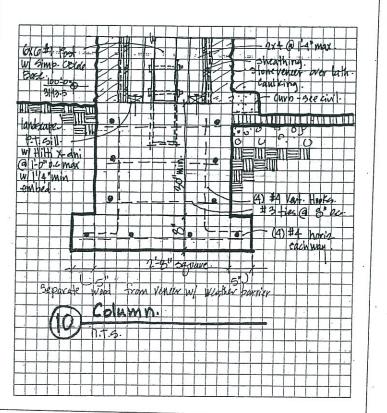


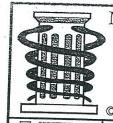












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DETAILS

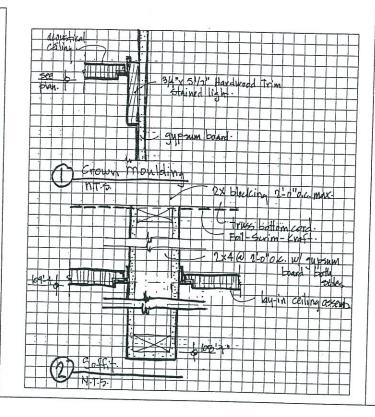
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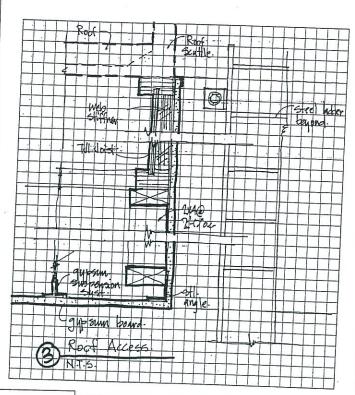
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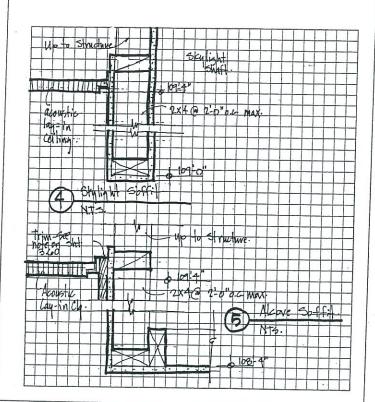
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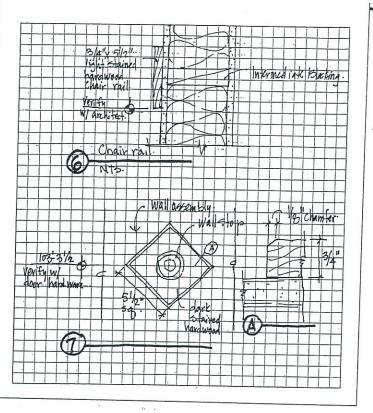
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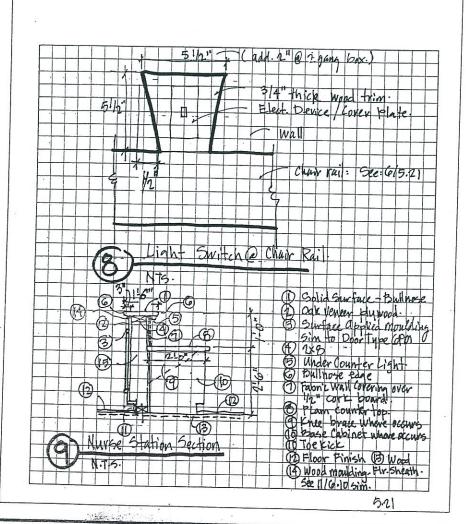
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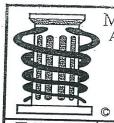












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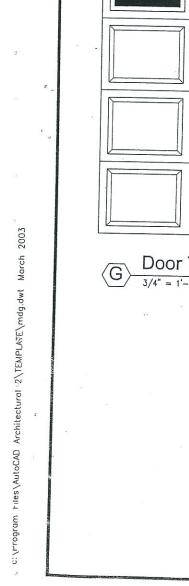
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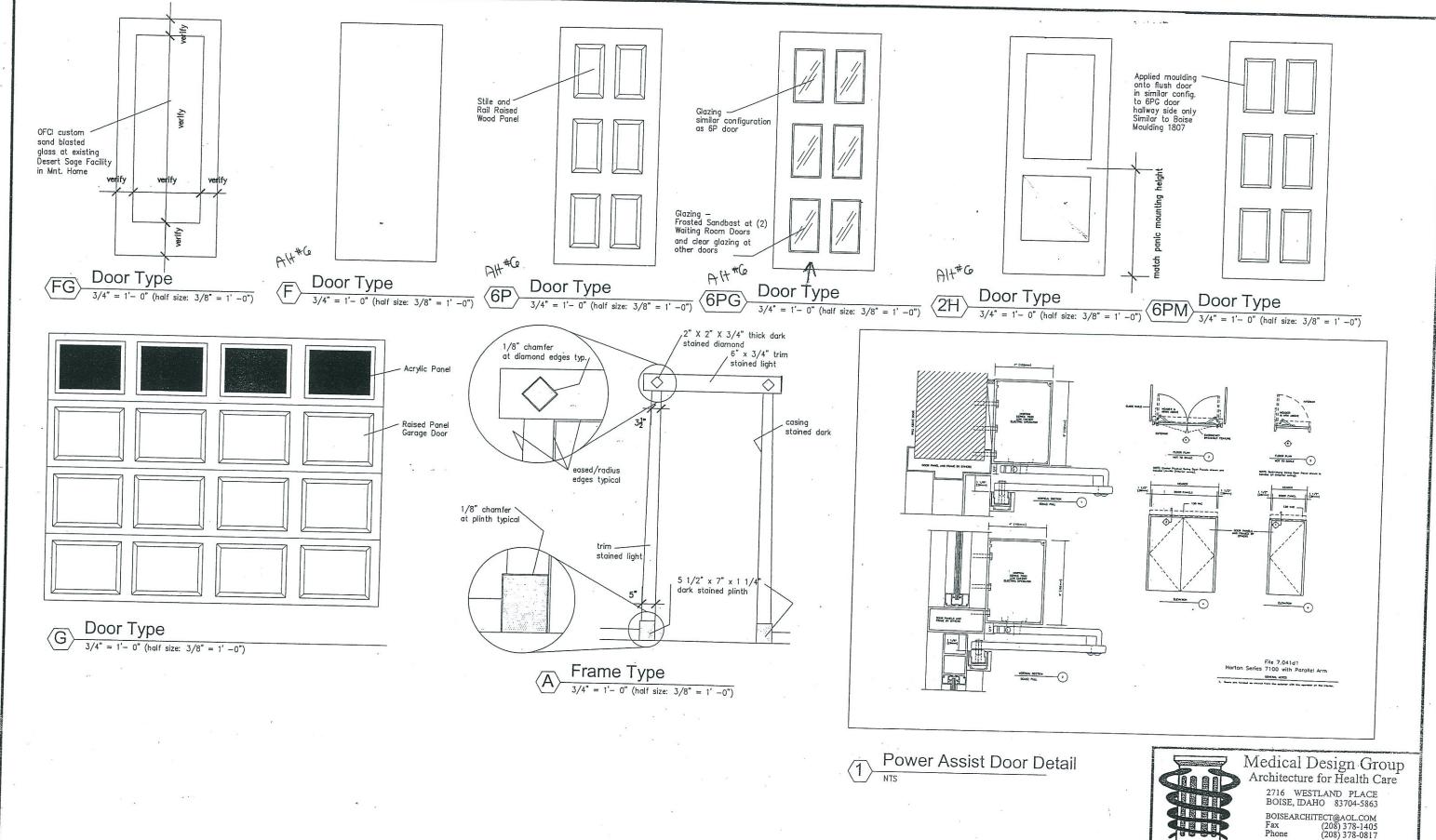
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DETAILS

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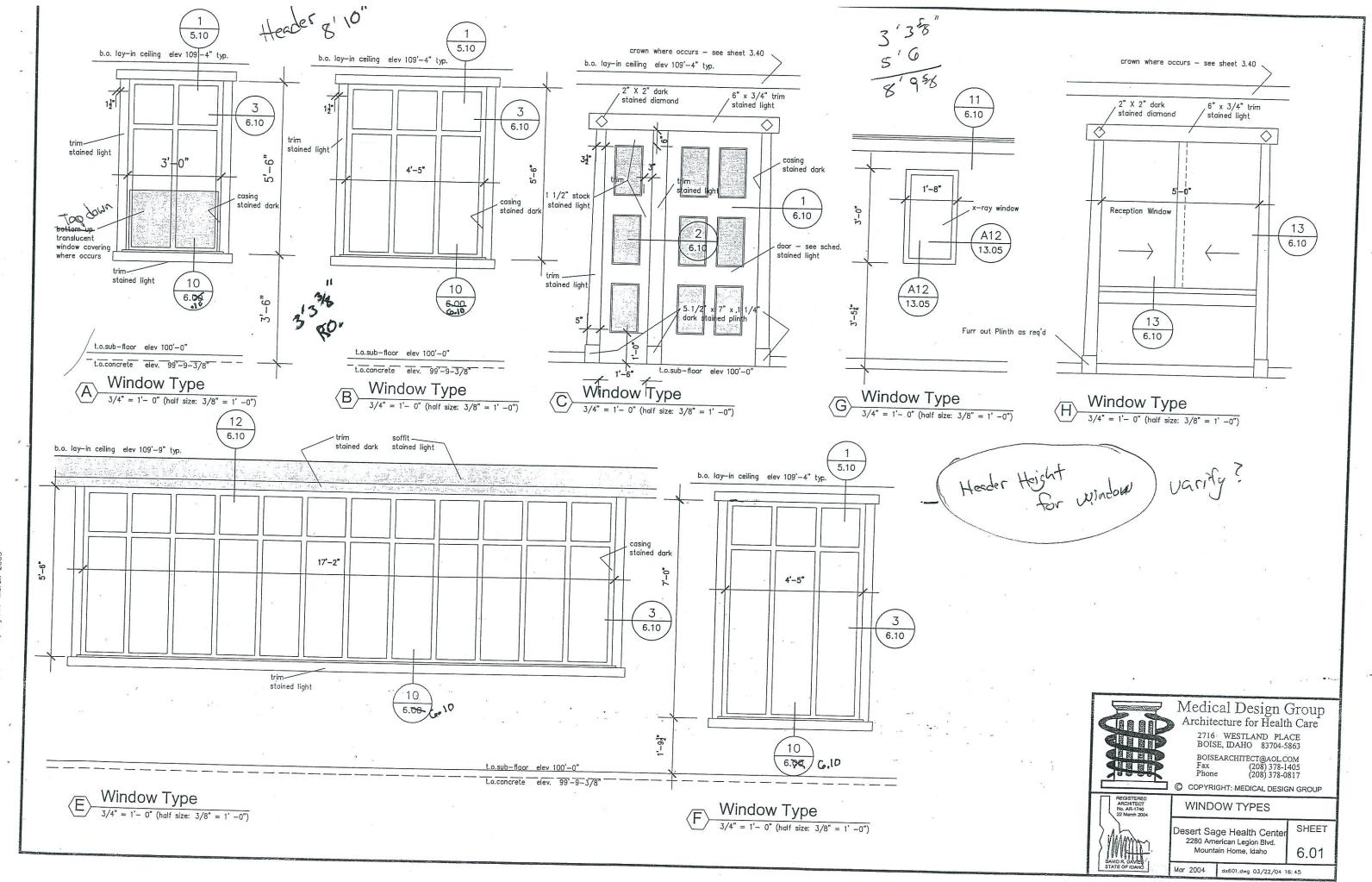
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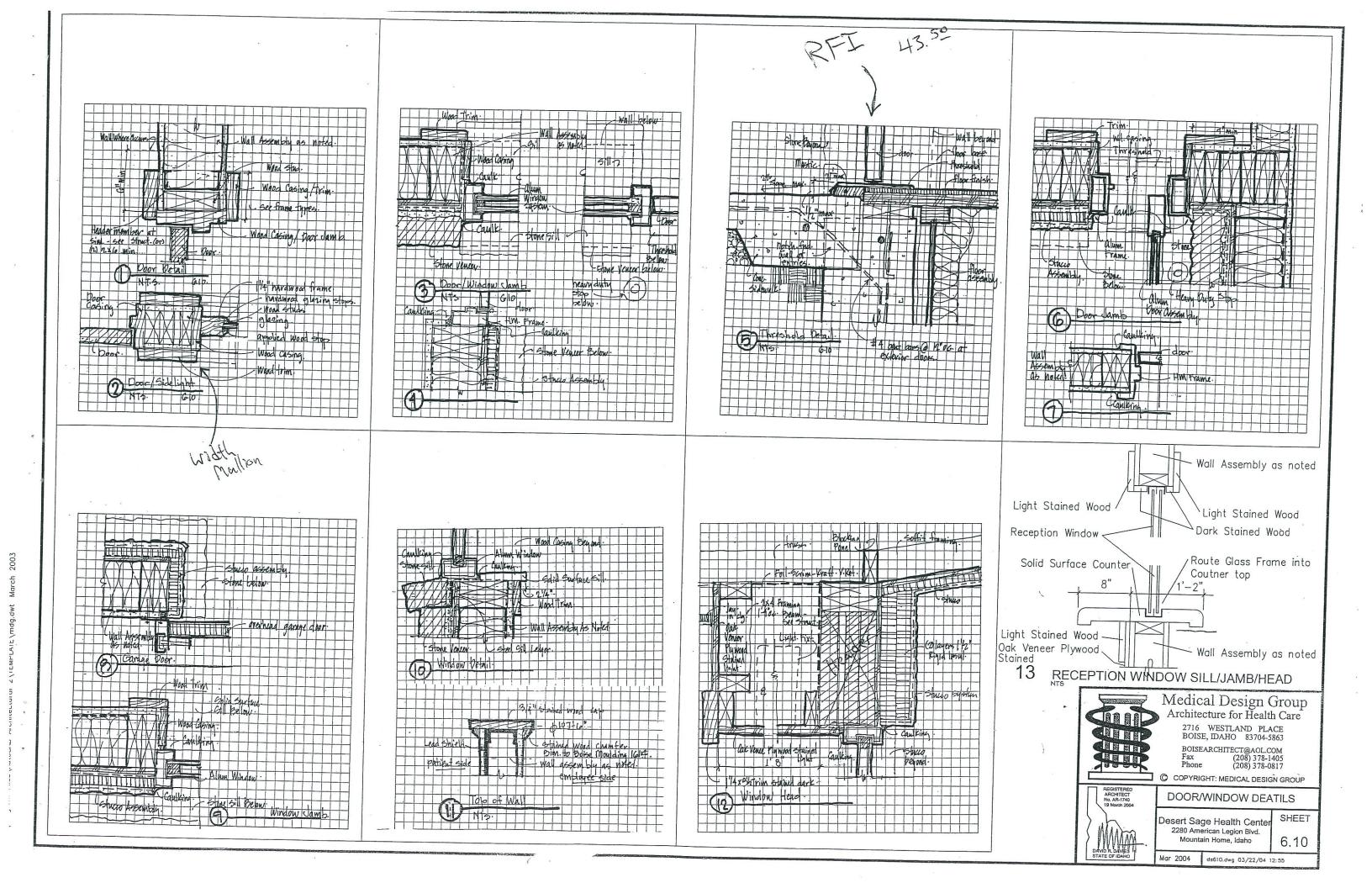




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119 120	SIZE 36X84X1 3/4 36X84X1 3/4 36X84X1 3/4 36X84X1 3/4 36X90X1 3/4 36X90X1 3/4 36X90X1 3/4 36X90X1 3/4 36X84X1 3/4	WD W	1 67	DOOR FINISH STN	FRAME MAT'L WD WD WD WD WD ALUM WD HM HM	FRAME TYPE A/B A/B A/B A/B A/B A/B A/B A/B D A/B A/B D A/B A/B D A/B D A/B D A/B D A/B D D D	FRAME FINISH STN	DETAIL JAMB 1/6.10 1/6.10 1/6.10 1/6.10 1/6.10 2/6.10 2/6.10 2/6.10 1/6.10 1/6.10 1/6.10 1/6.10 1/6.10 1/6.10 1/6.10 1/6.10 1/6.10 1/6.10	DETAIL HEAD 1/6.10 sim	REMARKS	HARDWARE GROUP 3 \$ \$ \$ \$ \$ 6 10 118 10 ! 6 \$ \$ \$ \$ \$ 1 5 9 19 11	MARK 101 - 102 103 104 105 - 106 - 107 - 108 109 - 110 111 - 111 113 - 111 116 - 117 - 118 - 119 120
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DOOR SCHEDULE

HARDWARE GROUP 01 / 1 1/2 pr Hinges 1 Latchset (R) Wallstop HARDWARE GROUP 02 -

1 1/2 pr Hinges 1 Latchset (D) Wallstop

HARDWARE GROUP 03 1 1/2 pr Hinges - 180 degree Latchset (ON) Overhead Stop

HARDWARE GROUP 04 -1 1/2 pr Hinges 1 Latchset (ON) Wallstop

HARDWARE GROUP 05 ~ Hinges Latchset (D)

HARDWARE GROUP 06 -1 1/2 pr Hinges

Pull (waiting) Wallstop

HARDWARE GROUP 07 1 1/2 pr Hinges Latchset (OL) Wallstop

HARDWARE GROUP 08 1 1/2 pr Hinges 1 Panic Pull Closer

Threshold

HARDWARE GROUP 15 1 1/2 pr Hinges
Keyless Push Button
Combination Lock Latch Set

HARDWARE GROUP 09 1 1/2 pr Hinges Panic Pull Threshold Weatherstrip

HARDWARE GROUP 10 -Hinges Latchset (OL) Wallstop

HARDWARE GROUP 11 1 1/2 pr Hinges Latchset (AB) HD Stop Kickplate

Weatherstrip Threshold HARDWARE GROUP 12 1 1/2 pr Hinges Latchset (D) Smoke seal

HARDWARE GROUP 13 1 1/2 pr Hinges 1 Latchset (D) Sound Seal Door Sound Sweep

HARDWARE GROUP 14 hardware by dor manuf.

Keying Instructions:
Provide (4) grand master keys
Exterior Doors all keyed alike under grand master
Each Office keyed differently under the grand master
Each Office Key allows access to exterior doors and chart room
Storage/Japitor keyed alike and allow exterior door access, unde Storage/Janitor keyed alike and allow exterior door access, under grand master Chart Room Key also opens exterior doors, under grand master Nurse Key under grand master, opens exterior doors, chart room

HARDWARE GROUP 16: Hinges : Keyless Push Button Combination Lock Latch Set

HARDWARE GROUP 17 1 1/2 pr Hinges 1 Latchset (ON) Closer w/ cush stop Perimeter Air Seal

HARDWARE GROUP 18 1 1/2 pr Hinges Panic Closer Threshold Weatherstrip Automatic Door Operator

HARDWARE GROUP 19 1 1/2 pr Hinges - Non Removable Pins Latchset (D)

DOOR SCHEDULE

	MARK	SIZE	DOOR MAT'L	DOOR TYPE	DOOR FINISH	FRAI		FRAME FINISH	DETAIL JAMB	DETAIL HEAD	DETAIL THRESH	. REMARKS	HARDWAR	
	131	36X84X1 3/4	WD	SP	CTU					00.00 -0 ,00		· KEMAKKS	GROUP	MARK
	132	36X84X1 3/4		6P	STN	WD	A/B	STN	1/6.10	1/6.10 sim				
	133	36X84X1 3/4		SP	STN	WD	-A/B	STN	1/6.10	1/6.10 sim			3	131
	134	42X89X1 3/4			STN	WD	~ A/B	STN	1/6,10	1/6.10 sim	1		3	132
	135	42X84X1 3/4		2H *	PT	ALUM	All consultations	PT	6/6.10 sim		5/6.10	0501	4	133 🕳
	136	36X84X1 3/4		6P	STN	WD	► A/B	STN	1/6.10	1/6.10 sim	570.10	OFOI card reader	9	134
	137	36X84X1 3/4		6P	STN	WD	* A/B	STN	1/6.10	1/6.10 sim			3	135
	138	36X84X1 3/4		.6P	STN	WD	A/B	STN	1/6.10	1/6.10 sim			17	136
	139	36X89X1 3/4	VVD	_GP	STN	WD	■ A/B	STN	1/6.10	1/6,10 sim			3	137
	140	30X03X1 3/4	ALUM	2H~	PT	ALUM	D	PT	6/6.10 sim		F/C 40		4	138 -
	1 10	•							5. 10 Sitt	00.10 Sim	5/6.10		8	139
	141	36X84X1 3/4												140
	142	30/04/13/4	WD	.6P	STN	WD	^ A/B	STN	1/6.10	1/6.10 sim				
	143	3670171 011							170.10	170. TU SIM		keyless lock	15	141
	144	36X84X1 3/4		.6P	STN	WD	` A/B	STN	1/6.10	1/6.10 sim				142
	145	36X84X1 3/4	WD	-8F	STN	WD	► A/B	STN	1/6.10				7	143
	146	36X84X1 3/4	WD	6PG	STN	WD	~ A/B	STN	1/6.10	1/6.10 sim			4	144
	147	36X84X1 3/4	WD	∠6P	STN	WD	➤ A/B	STN	1/6.10	1/6.10 sim			1	145 -
	148	36X84X1 3/4	WD	-GP	STN	WD	→ A/B	STN	1/6.10	1/6.10 sim			7	146 -
	149	36X84X1 3/4	WD	F	STN	WD	► B/B	STN	1/6.10	1/6.10 sim			4	147 -
	150	36X84X1 3/4	WD	SP	STN	WD	A/B	STN	1/6.10	1/6.10 sim			4	148 -
	150							0	170.10	1/6.10 sim			4	149 -
	151													150
		36X84X1 3/4 \		F	STN	WD	~ B/B	STN	1/6.10	40.40				4.55
	152	36X84X1 3/4 \		F	STN	WD .	- B/B	STN	1/6.10	1/6.10 sim			2	151 -
	153	36X84X1 3/4 V		F	STN	WD	→ B/B	STN	1/6.10	1/6.10 sim			1	152 -
	154	42X84X1 3/4 V		SP	STN	WD	► A/B	STN		1/6.10 sim			2	153
	155	42X84X1 3/4 V	۷D	6РМ	STN	НМ	C	PT	1/6.10	1/6.10 sim				154 -
						HMAV	A	STN	sht 13.05	sht. 13.05 sin	1.	X-ray side		155
					15			SIN				Hallway side		155
*	SIN = fact	tory applied clear	r finish ove	r natural v	wood							Lead Lined door/		
	AAD = AAOC	od										frame per sht 13.01		
	HM = Holle	ow Metal												

WD = Wood HM = Hollow Metal ALUM = Aluminum FPT = Factory Paint STL = Steel PT custom = Field Paint garage door

Note: Frame Silencers typical except at openings with seals.

GFHC - Desert Sage

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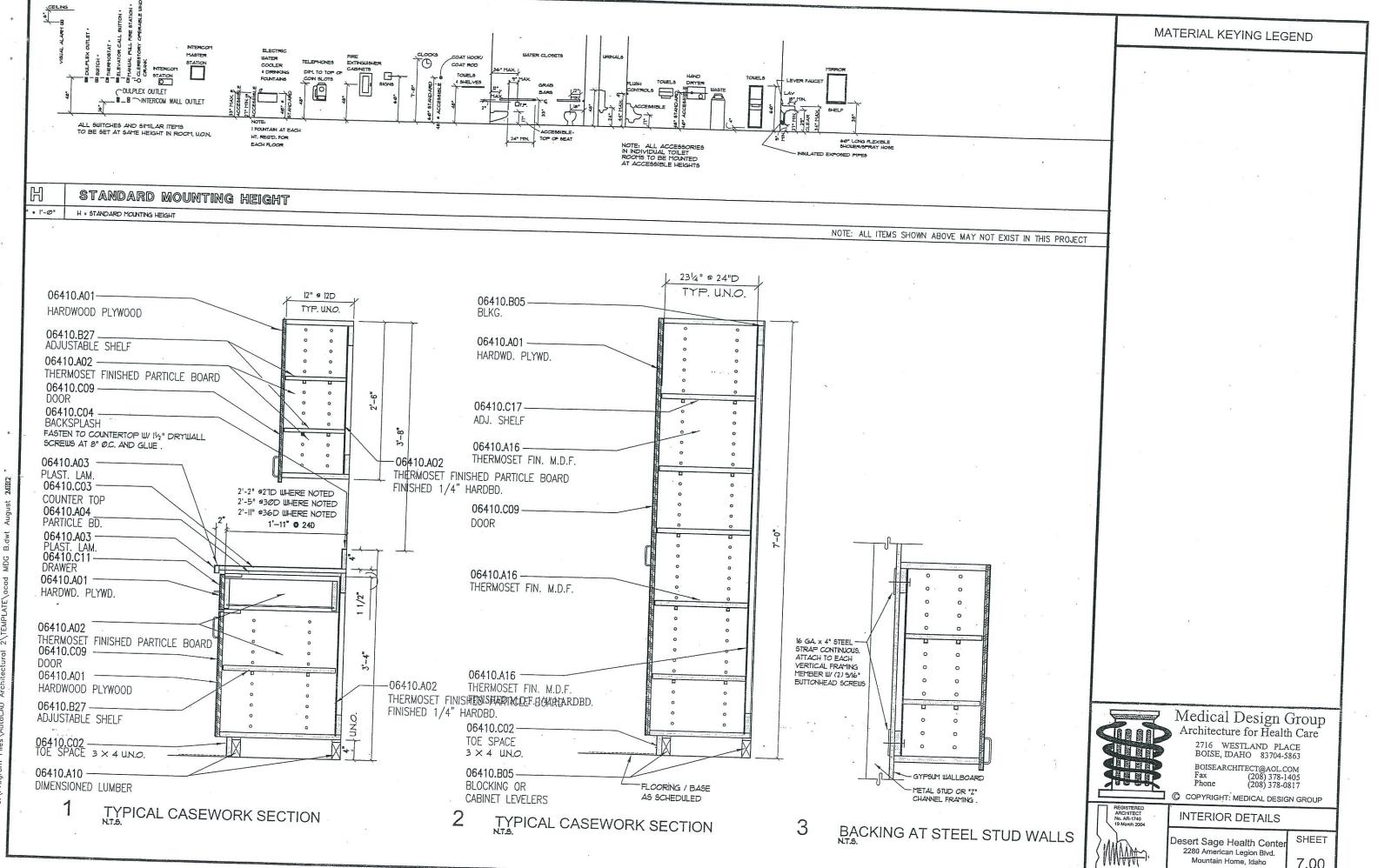
6.11



DOOR SCHEDULES

Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

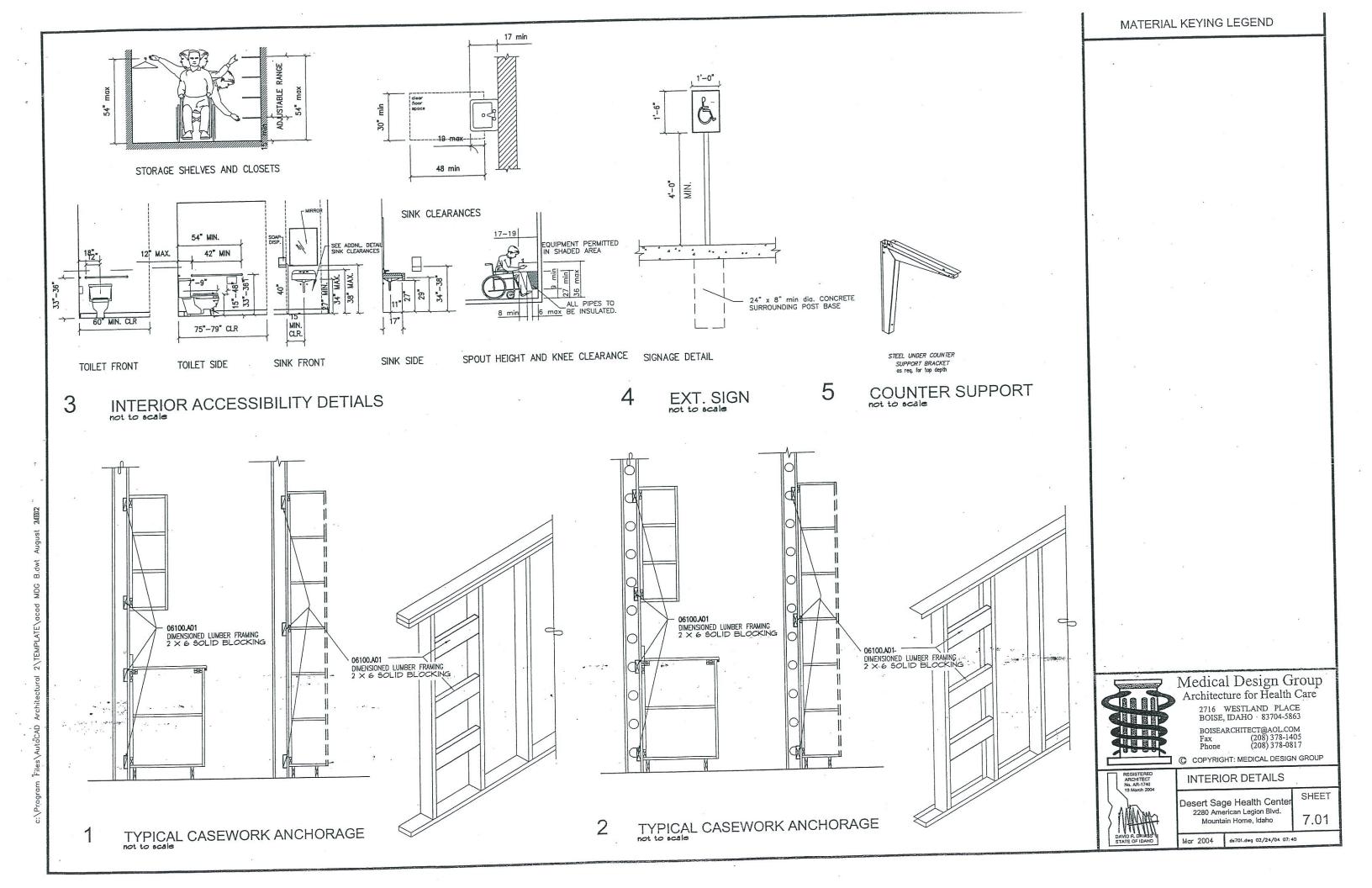
GFHC - Desert Sage

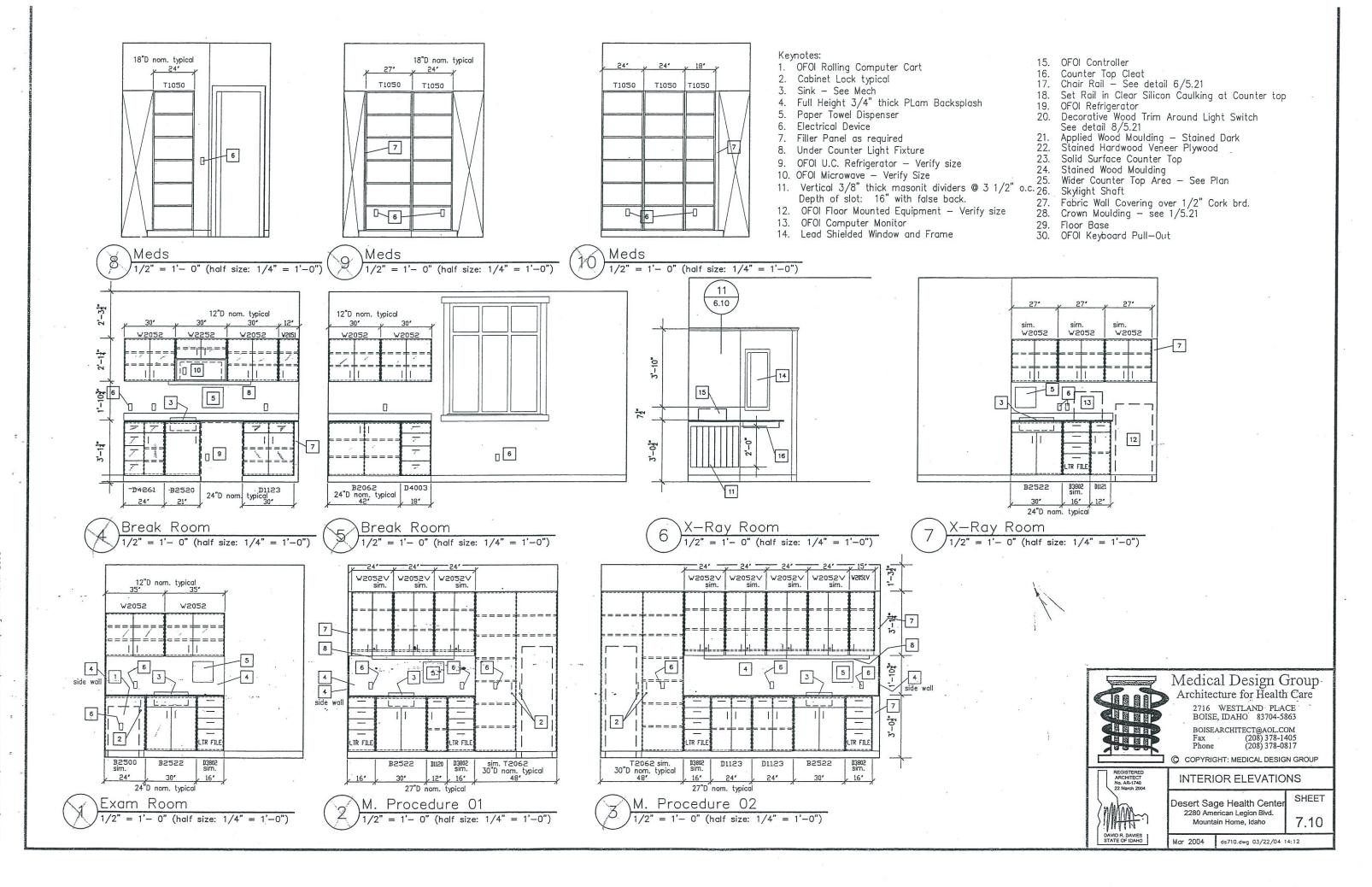


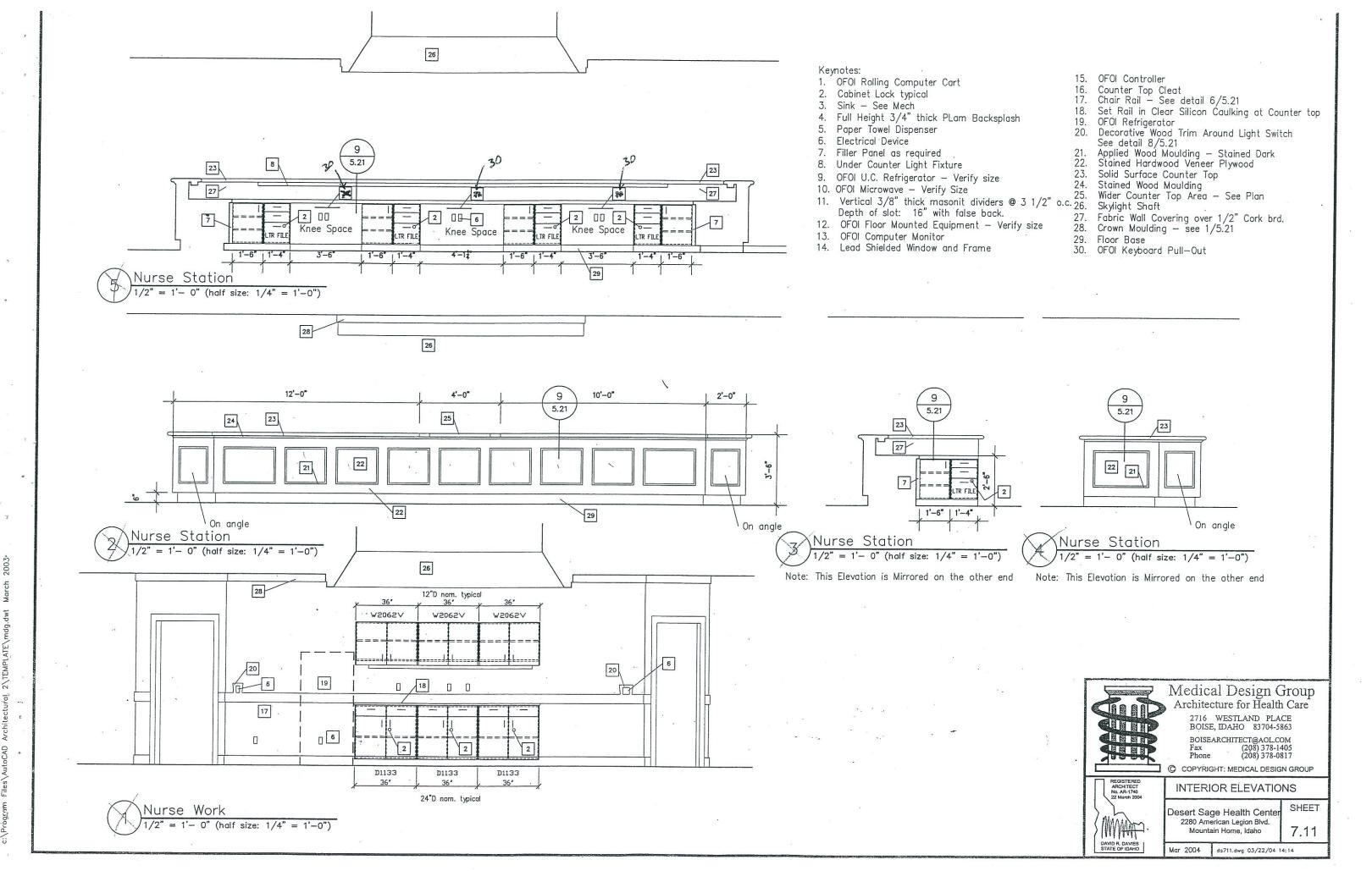
Mountain Home, Idaho

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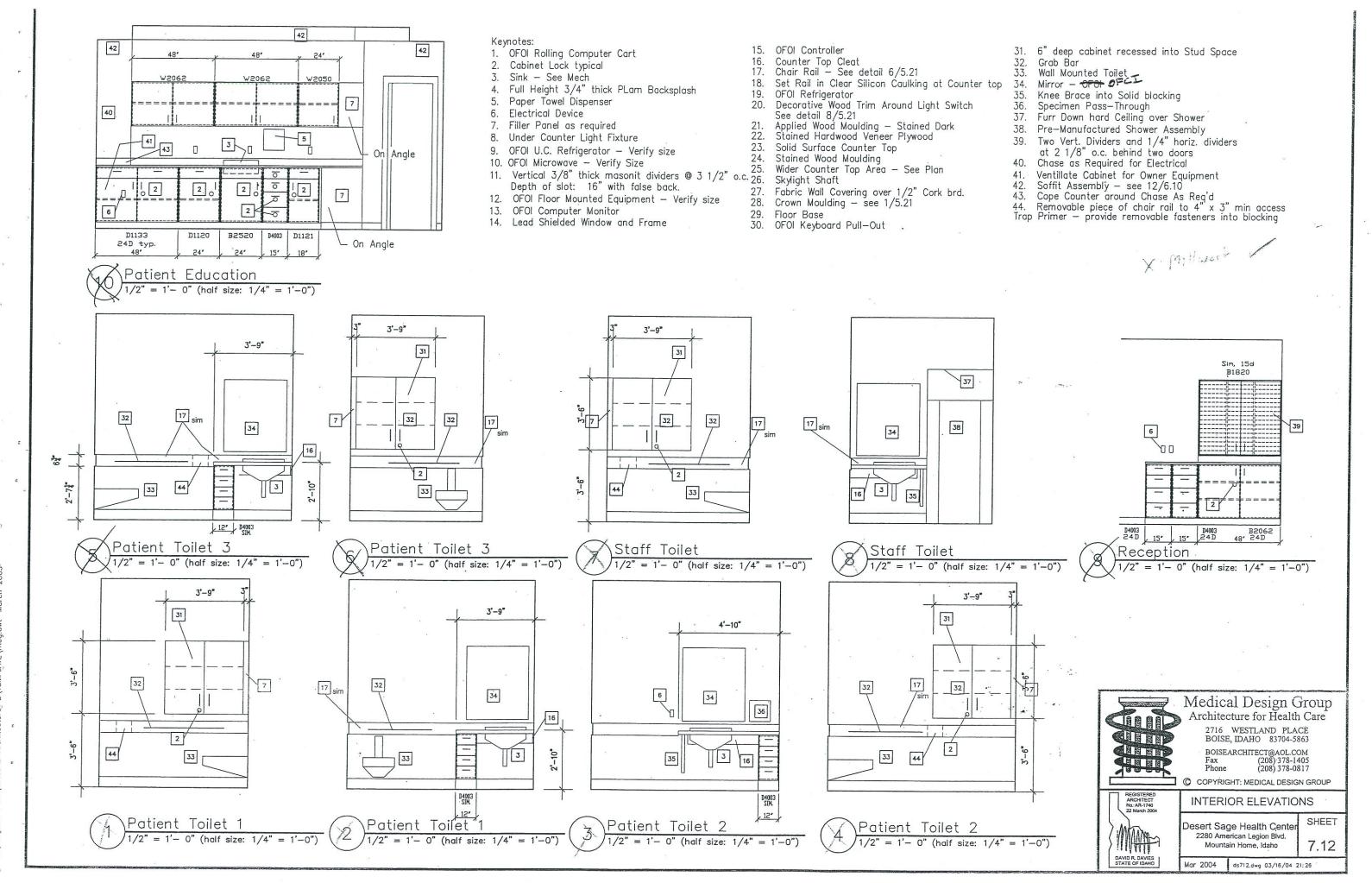
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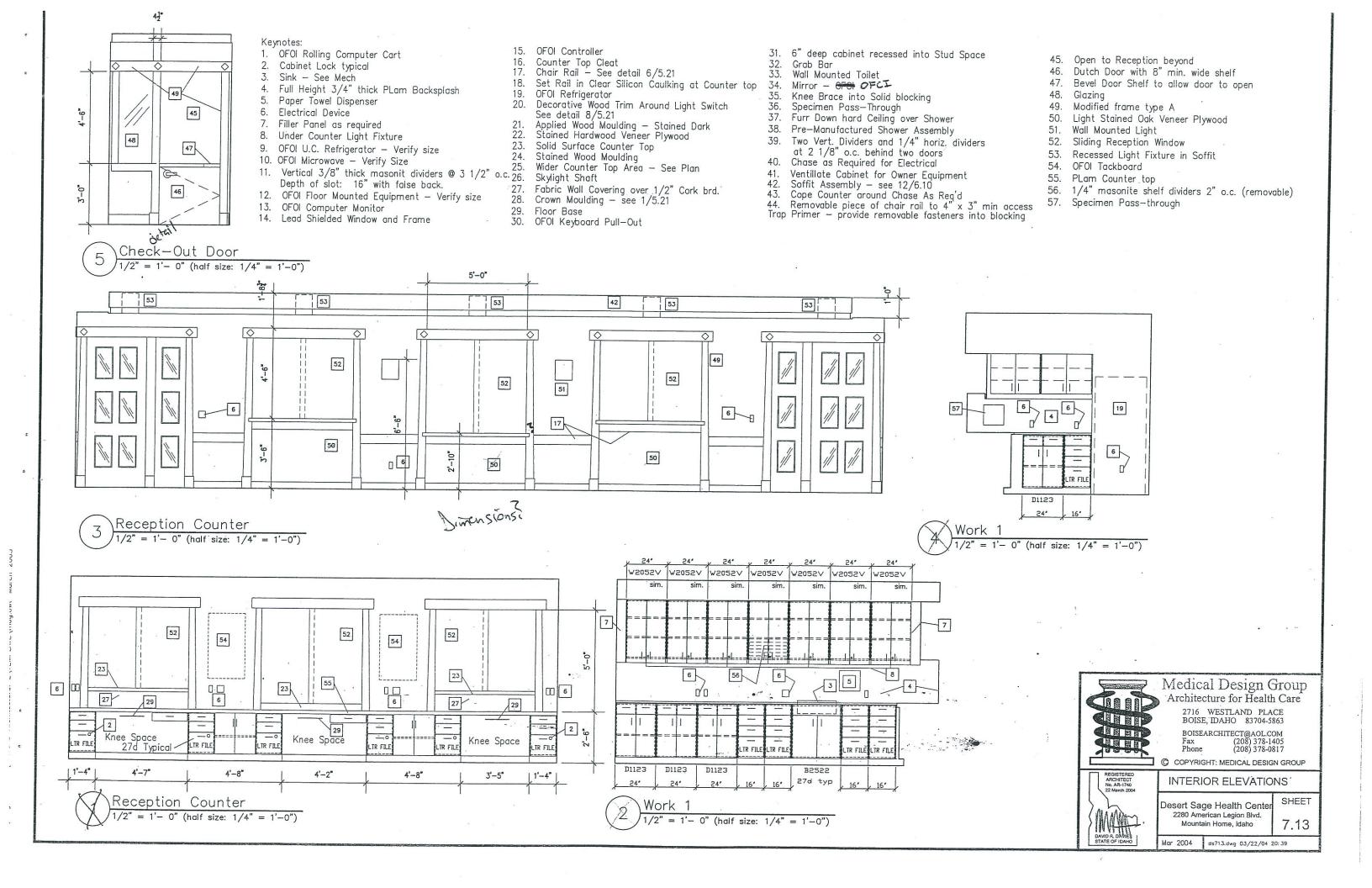


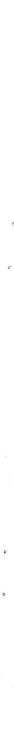


Architectural 2\TEMPLATE\mdg.dwt Files\AutoCAD



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CAD

- 1. OFOI Rolling Computer Cart 2. Cabinet Lock typical 3. Sink - See Mech 5. Paper Towel Dispenser 6. Electrical Device 7. Filler Panel as required
- 4. Full Height 3/4" thick PLam Backsplash
- 8. Under Counter Light Fixture 9. OFOI U.C. Refrigerator - Verify size
- 10. OFOI Microwave Verify Size 11. Vertical 3/8" thick masonit dividers @ 3 1/2" o.c. 26. Depth of slot: 16" with false back.
- 12. OFOI Floor Mounted Equipment Verify size
- 13. OFOI Computer Monitor
- 14. Lead Shielded Window and Frame

- OFOI Controller
- Counter Top Cleat
- Chair Rail See detail 6/5.21
- 18. Set Rail in Clear Silicon Caulking at Counter top
- OFOI Refrigerator Decorative Wood Trim Around Light Switch 20.
- See detail 8/5.21
 Applied Wood Moulding Stained Dark Stained Hardwood Veneer Plywood
- Solid Surface Counter Top Stained Wood Moulding
- Wider Counter Top Area See Plan
- Skylight Shaft Fabric Wall Covering over 1/2" Cork brd. Crown Moulding — see 1/5.21
- Floor Base
- OFOI Keyboard Pull-Out

- 6" deep cabinet recessed into Stud Space
- Grab Bar
- Wall Mounted Toilet
- Mirror OFOL OFCI Knee Brace into Solid blocking
- Specimen Pass-Through
- Furr Down hard Ceiling over Shower Pre-Manufactured Shower Assembly
- Two Vert. Dividers and 1/4" horiz. dividers at 2 1/8" o.c. behind two doors
- Chase as Required for Electrical

- 41. Ventillate Cabinet for Owner Equipment
 42. Soffit Assembly see 12/6.10
 43. Cope Counter around Chase As Reg'd
 44. Removable piece of chair rail to 4" x 3" min access Trap Primer — provide removable fasteners into blocking

- 45. Open to Reception beyond
- Dutch Door with 8" min. wide shelf
- Pull out drawer for Dental Statum Sterilizer 47. Bevel Door Shelf to allow door to open Counter mounted Dental Auto-clave Sterilizer

63.

64.

65.

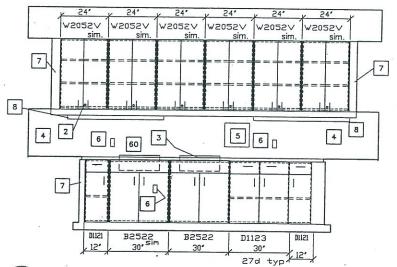
Plaster Trap

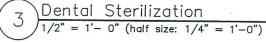
Model Trimmer

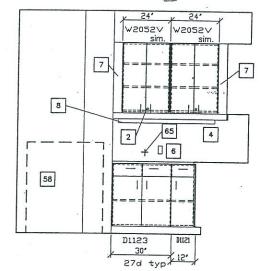
Call Light Panel

Wall Mounted air Valve

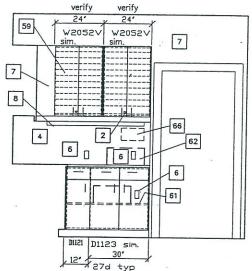
- 48. Glazing
- 49. Modified frame type A
- Light Stained Oak Veneer Plywood 50.
- 51. Wall Mounted Light
- 52. Sliding Reception Window
- Recessed Light Fixture in Soffit
- OFOI Tackboard
- PLam Counter top
- 1/4" masonite shelf dividers 2" o.c. (removable)
- Specimen Pass-through
- OFOI Floor Mounted ditigal x-ray
- 59. Masonite Dividers to support Dental Tray verify



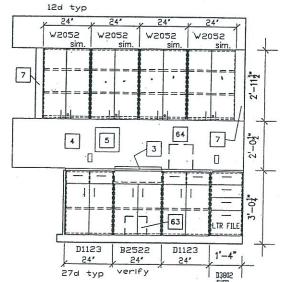




Dental Sterilization = 1' - 0" (half size: 1/4" = 1' - 0")

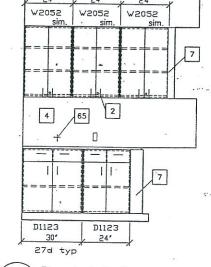


Dental Sterilization 1/2" = 1' - 0" (half size: 1/4" = 1' - 0")



1/2" = 1'- 0" (half size: 1/4" = 1'-0")

Dental Lab



Dental Lab

1/2" = 1' - 0" (half size: 1/4" = 1' - 0")



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Counter Recessed OFCI Dental Ultra Sonic Cleaner

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INTERIOR ELEVATIONS

Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

7.14

ds714.dwg 03/22/04 21:59

TREASURE VALLEY MEDICAL PHYSICS, INC.

2475 Parkside Dr. Boise, Idaho 83712 (208) 345-7490

October 21, 2003

David R. Davies A.I.A. 2716 Westland Place Boise, ID. 83704

Dear Mr. Davies:

The general objective of radiation shielding is to provide protection for both the radiation worker as well as the general public. To meet this need, the walls in the Desert Sage Health Center which will be located in Mountain Home, Idaho, will need to be lined with lead. In general, the walls will need to be shielded to a height of seven (7) feet. All openings and switch or receptacle boxes will have to be backed with shielding material (preferably lead). All penetrations for fasteners in the shielding will have to be backed with lead. There is no occupancy above or below the x-ray room, therefore no shielding is required for the floor or ceiling.

The following shielding recommendations were arrived at using NCRP 49, and The Health Physics and Radiological Health Handbook (1992). You provided the drawings for the room layout with the x-ray machine placement. Workloads used in the calculations were for a busy installation.

Please see the enclosed data set for the specifications.

Early visual inspection of the rooms during construction by a Medical Physicist is advantageous to ensure compliance with the specifications and possible revealing of faulty materials or workmanship. If there are problems they can be remedied more economically at this early stage.

Thank you for letting me be of service. If you have any questions, please feel free to call.

Sincerely

Roger G. Stano, M.S., FACR Medical Physicist

SPECIFICATIONS

DESERT SAGE HEALTH CENTER MOUNTAIN HOME, IDAHO

OCTOBER 21, 2003

North wall	-	Common to corridor and chest board	4.0 lbs./sq. ft. lead
Northwest wall and door		57	4.0 lbs./sq. ft. lead
East Wall	÷	Common to work area	3.0 lbs./sq. ft. lead
Operators console area and window	-		4.0 lbs./sq. ft. lead
West Wall		Common to nursing	3.0 lbs./sq. ft. lead
South wall	-	common to work area	3.0 lbs./sq.ft. lead
Floor and ceiling			none required

13.01 Radiation Protection

1. Includes Lead Backed Gypsum Board, Lead Sheet Accessories, Gypsum Panel Fasteners, Lead Lined flush wood doors, Lead Lined Steel telescopic viiw window frames, Radiation resistant glass, Glazing accessories.

2. References: NCRP Report No. 49, Structural Shielding Design and Evaluation for Medical Use of X-rays and Gamma Rays of Energies up to 10

3. System Description:

A. Installed radiation protection materials shall comply with National Council on Radiation Protection, NCRP Report No. 49 for diagnostic

B. Electrical installer shall install electrical boxes centered between studs and connect conduit at the top of electrical boxes, where possible at walls with lead lining.

4. Submittals: Product pata, Shop Drawings, Certificates, Door Hardware, Site

Inspection Report prepared by a Radiation shielding inspector within 10 days after site inspection of exposed radiation resistant assemblies.

5. Distributors: Wave Barriers, Shielded Building Materials, 20811 NW Cornell Rd. Ste 500, Hillsboro, OR 97124-9804 Bill Zander 1-800-498-1460

6. Components:

A. Lead Backed Gypsum Board Panels: ASTM C36, Beveled, Type X with lead backing sheet backing meeting FS QQ-L-201, Grade C. B. Lead Sheet Accessories: FS QQ-L-201, Grade C. Batten Strips: Same thickness or greater as lead sheet on back face of adj. Wall panels, 2" wide, 7 feet long.

C. Wall Penetration Covers: Same thickness or greater than thickness of lead sheet on back face of adjacent wall panels. Size as required for not less than 1 inch wide lap with lead sheet on back face of adjacent wall panels.

D. Fastener Tabs: Same or greater thickness than thickness of lead sheet on back face of adjacent wall panels. Size not less than 1 inch wide by 2 inches long. Note: these tabs are used for screw application of gypsum panels to steel studs without batten strips and for all wood studs. See details

E. Door Jamb Lining: Same or greater thickness than thickness of lead sheet on back face of adjacent wall panels. Size 7 foot long by width required by door frame.

F. Lockset Rose and Knob Lining: Same of greater thickness than thickness of lead sheet within adjacent door. Size as required to fill lockset rose and knob.

(Window) G. Frame Lining: Same or greater thickness than thickness of lead sheet on back face of adjacent wall panels. Continuous length at head and jamb, 3 pieces with 1 inch laps at frame corners,

G. Gypsum Panels Fasteners: Screws: ASTM 1002, 1 inch long, bugle head. Adhesive: ASTM C557.

H. Radiation Shielding Glass: Glass type: Polished radiation shielding



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X-RAY SPECS/DETAILS

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13.01

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I. Glazing Accessories: Setting Blocks: Solid Neoprene, 80 to 90 Shore A hardness. Glazing Tape: Foam neoprene.

7. Lead Lined Flush Wood Doors: AWI Custom PC-5, Lead Lined, Face Veneer to match other wood doors in facility as specified in section 08. Thickness: 1 3/4". Finish: comply with requirements of section 09. Door fitting requirements: 1/8" space max at perimeter except ½ max space at door bottom.

8. Lead Lined steel Telescopic View Window Frames: Frame: ASTM A568 and ASTM 366 with Lead Sheet Lining FS QQ-L-201, Grade C, single un-pierced strip, 1/16" thick. Frame Profile: 2 inches wide with 7/16 inch high integral fixed stop and 16 gauge applied cold rolled steel stop. Frame Construction: Two telescoping steel frames with continuous welded corner seams and lead sheet applied with adhesive to inside face of the outside frame, shop primed.

9. Execution:

A. Installation of Radiation Resistant Wall Assemblies: Screw lead battens to steel studs at 12 inches o.c. from floor to ceiling. If wood studs are used, secure lead battens to wood studs with adhesive or brad nails from floor to ceiling behind vertical gypsum panel joints.

B. Install lead backed gypsum board in compliance with GA-216 and ASTM C840. Install with long edges vertical. Install to within 1/4" of floor. Screw lead backed gypsum board to steel framing members at 8 inches o.c. at panel edges and 12 inches o.c. in the field. Utilize fastener tabs at wood studs.

C. Install Steel Door Frames using adhesive to apply lead lining in door jambs. Otherwise, install in accordance with section 08.

D. Install Wood Doors and Door Hardware to comply with AWI Quality Standards, Section 1700.

E. Install Lead Lined Steel Telescopic View Window Frames setting unleaded frame plumb and square in wall opening on control room side of wall with shims. Set leaded frame inside unleaded frame on X-ray side of wall and compress adjustable frame against face of wall. Secure both frames with equal spaced screws through each jamb. Install setting blocks, shims and glazing tape in glazing channel to prevent glass from touching the steel frame. Install tadiation resistant glazing in telescoping frame. Place steel stops.

F. Install wall penetration covers by cutting the covers from lead sheet making allowance for required laps. Install penetrating wall boxes and raceways centered between studs using steel telescoping mounting brackets. Adhesive apply lead sheet penetration covers on penetrating boxes and raceways and return penetration covers to backside of lead backed wall panels with 1 inch minimum laps.

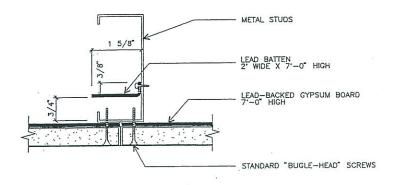
G. Install pipe penetrations in Walls and Ceilings by wrapping pipe with wall penetration covers lapping lead joints 1 inch minimum. To prevent

radiation passage through pipe openings, offset pipe direction as close behind wall lead lining as possible so that the pipe can be backed with lead sheet sufficient to prevent radiation passage at an angle.

10. Completion:

A. Prior to applying gypsum panels to back face of radiation resistant interior walls, employ a qualified radiation shielding inspector for field inspection of installed radiation resistant materials. Contractor to include cost for this inspection in price for construction. Written report to be issued to Architect and Owner within ten days of inspection. Repair and replace work found defective by radiation shielding inspector or testing by a qualified health physicist. Cost for re-inspection if necessary shall be borne by the contractor.

B. Tape temporary paper signs on radiation resistant walls with the following text: "DO NOT MOUNT EQUIPMENT ON THIS WALL WITHOUT COVERING PENETRATING FASTENERS WITH LEAD SHEET OF THICKNESS REQUIRED BY ORIGINAL CONTRACT DOCUMENTS"



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1	1101 011 11 000	REVISION DATE	5-31-90					
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X-RAY SPECS/DETAILS

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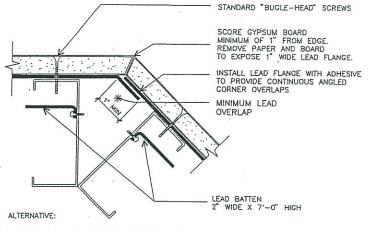
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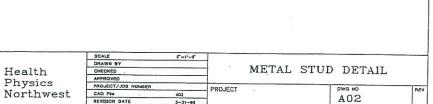
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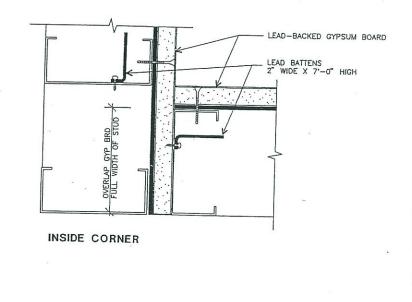
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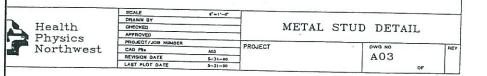
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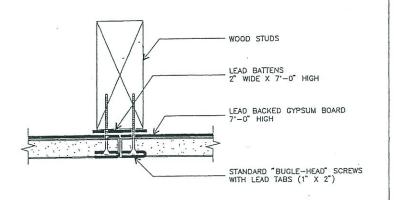


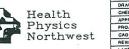
IF CORNER IS CONSTRUCTED WITH (SUPPORT) BACKING DIRECTLY BEHIND THE ANGLE POINT, LEAD-BACKED GYPSUM BOARD MAY BE SCORED ON THE FACE AND "BROKEN" AROUND THE ANGLE POINT TO MAKE A CONTINUOUS SHIELDING BARRIER. (WILL REQUIRE ADDITION OF METAL CORNER GUARD.)



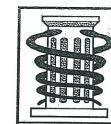








WOOD STUD DETAIL A05



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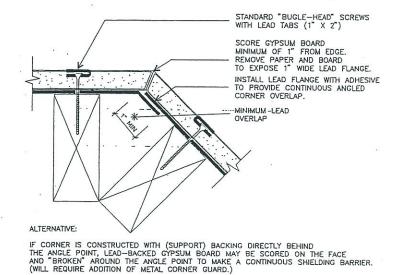
Desert Sage Health Center 2280 American Legion Blvd. Mountain Home, Idaho

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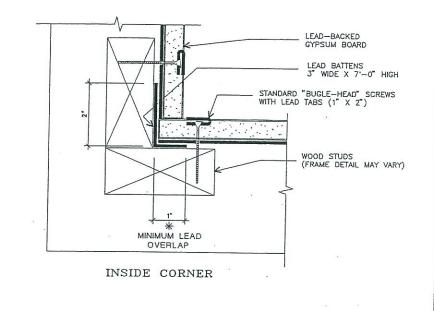
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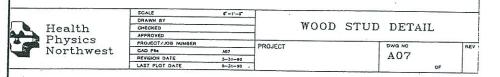


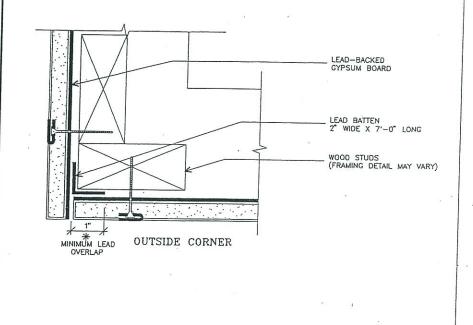


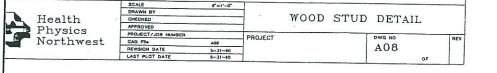
Health
Physics
Northwest

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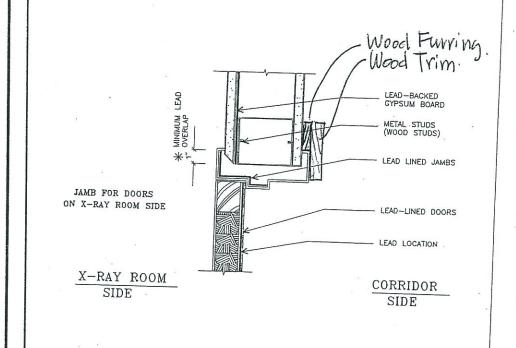
X-RAY SPECS/DETAILS

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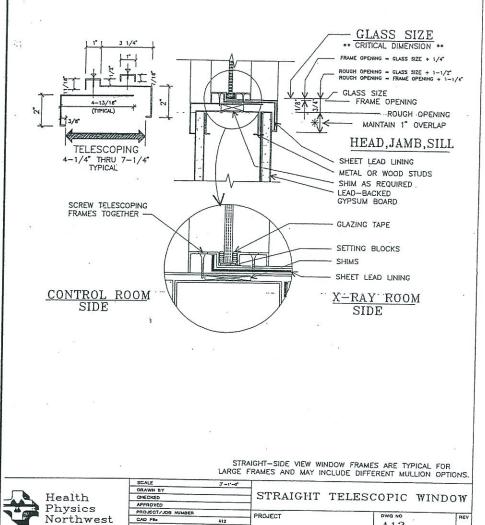
1 Home, Idaho 13.04

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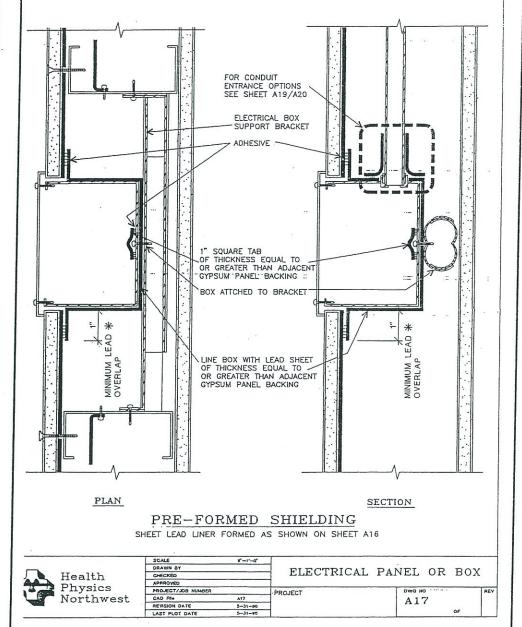
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LAST PLOT DATE Health DOOR, JAMB, ASTRAGAL Physics Northwest A09



Northwest





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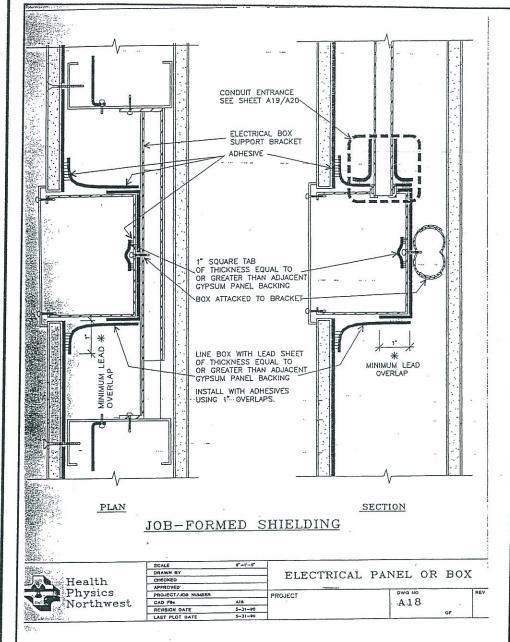
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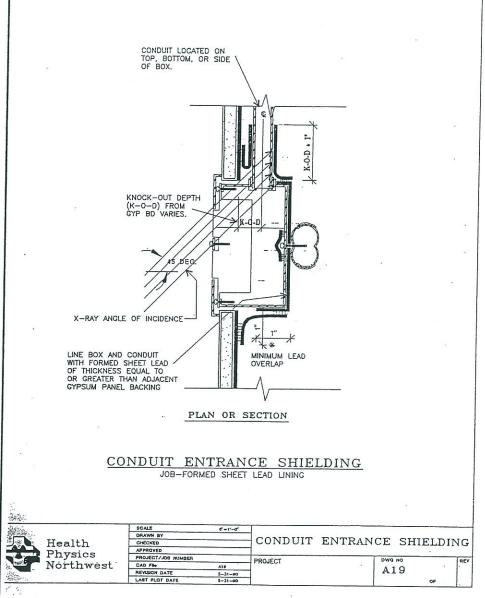
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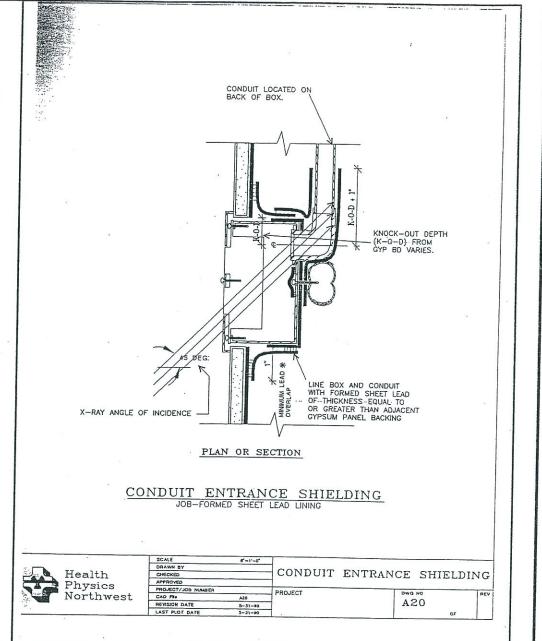
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X-RAY SPECS/DETAILS

Desert Sage Health Cente 2280 American Legion Blvd. Mountain Home, Idaho

13.06

SHEET

Feb 2004 ds1306.dwg 11/17/03 15:57

			PLUMBING .	AND	PIPING ABB	REVI	ATIONS		
(E)	EXISTING	CW	DOMESTIC COLD WATER	н₩	POTABLE HOT WATER SUPPLY	OZ	OUNCE	UNFIN	UNFINISHED
(E) (F)	FUTURE	CW/	COORDINATE WITH	HWC	DOMESTIC HOT WATER RECIRC	2.5	PROCESURE ATTUREDATION	UNO	UNLESS NOTED OTHERWISE
(N)	NEW	CWR	CONDENSER WATER RETURN	HWR	HEATING WATER RETURN	P/T	PRESSURE/TEMPERATURE	UPC	UNIFORM PLUMBING CODE
(D)	DEPTH	CWS	CONDENSER WATER SUPPLY	HWS	HEATING WATER SUPPLY	PHWR	POTABLE HOT WATER RETURN		
(L)	LENGTH	CX	CONNECT TO EXISTING			PHWS	DOMESTIC HOT WATER	1	1555 April 7
(w)	WIDTH	DBL	DOUBLE	IA	INSTRUMENT AIR	PIV	POST INDICATOR VALVE PLUMBING	٧	VENT/VOLT
0	AT	DCBP	DOUBLE CHECK BACKFLOW	IBC	INTERNATIONAL BUILDING CODE	PLBG POC	POINT OF CONNECTION	VA VAC	VALVE VACUUM
ø	DIAMETER/PHASE		PREVENTOR	ID .	INSIDE DIAMETER INDIRECT WASTE	PRV	PRESSURE REDUCING VALVE	VAL	VELOCITY
Ĺ	ANGLE	DEG	DEGREE	IDM	INVERT ELEVATION	PSF	POUNDS PER SQUARE FOOT	VENT	VENTILATION
#	NUMBER/POUND	DES	DENTAL EQUIPMENT SUPPLIER	IE IMC	INTERNATIONAL MECHANICAL CODE	PSI	POUNDS PER SQUARE INCH	VERT	VERTICAL
101/	ADOLE	DET	DETAIL	IN	INCH	PVC	POLYVINYL CHLORIDE	VIF	VERIFY IN FIELD
ABV ACOUST	ABOVE ACOUSTICAL	DISCH	DIMENSION DISCHARGE	IND	INDIRECT	PW	POTABLE WATER	VOL	VOLUME
ADA	AMERICAN DISABILITIES ACT	DN	DOWN	INSUL	INSULATION			VRV	VACUUM RELIEF VALVE
ADJ	ADJUSTABLE ACT	DSN	DOWNSPOUT NOZZLE	INT	INTERIOR	R	RISER	VTR	VENT THRU ROOF
NFC	ABOVE FINISHED CEILING	DSP	DRY STANDPIPE	IPC	INTERNATIONAL PLUMBING CODE	RAD	RADIUS	2.110	500 Tall 10 Ta
AFF	ABOVE FINISH FLOOR	DWG	DRAWING			RD	ROOF DRAIN		
AFS	ABOVE FINISH SLAB	55	2.21	J-BOX	JUNCTION BOX	RDL	ROOF DRAIN LEADER	₩ .	WEST/WASTE
ALT	ALTERNATE	Ε	EAST	JST	JOIST	RE:	REFERENCE	W/	WITH
LUM	ALUMINUM	ĒA	EACH			REFG	REFRIGERATION/REFRIGERANT	W/O	WITHOUT
NSI	AMERICAN NATIONAL	EFF	EFFICIENCY	XW	KILOWATT	REINF	REINFORCE	WC	WATER CLOSET/WATER COLU
5.75	STANDARDS INSTITUTE	EL	ELEVATION	KWH	KILOWATT HOUR	REL	RELOCATE	WCO	WALL CLEANOUT
VPPROX	APPROXIMATE	ELEC	ELECTRICAL	CONTROL OF THE PARTY OF THE PAR	20000000000000000000000000000000000000	REM	REMOVE	WH	WATERHEATER
ARCH	ARCHITECTURAL	EMERG	EMERGENCY	LAV	LAVATORY	REQD	REQUIRED	WP	WATERPROOF
ASHRAE	AMERICAN SOCIETY OF HEATING,	ENCL	ENCLOSED/ENCLOSURE	LBS	POUNDS	RET	RETURN	WPD	WATER PRESSURE DROP
	REFRIGERATING, AND AIR	EQ	EQUAL	LF	LINEAL FEET/FOOT	RFLD	REFLECTED	WT	WEIGHT
	CONDITIONING ENGINEERS	EQUIP	EQUIPMENT	LPC	LOW PRESSURE CONDENSATE	RIO	ROUGH IN ONLY	1	
ASTM	AMERICAN SOCIETY OF	EWC	ELECTRIC WATER COOLER	LPG	LIQUEFIED PETROLEUM GAS	RO	REVERSE OSMOSIS	1	
	TESTING MATERIALS	EXH	EXHAUST	LPS	LOW PRESSURE STEAM	RPBP	REDUCED PRESSURE	1	
OTUA	AUTOMATIC	EXIST	EXISTING		TEDIN		BACKFLOW PREVENTOR	l	
AUX	AUXILIARY	EXP	EXPANSION	MAT	MATERIAL	RPM	REVOLUTIONS PER MINUTE	1.00	
		EXT	EXTERIOR	MAX	MAXIMUM ·				
BFF	BELOW FINISH FLOOR			MC	MECHANICAL CONTRACTOR	S	SOUTH	887-	NOAL OAG
BFS	BELOW FINISH SLAB	-	FIDE SEDIME	MECH	MECHANICAL MEZZANINE	SCHED	SCHEDULE	MEL	DICAL GAS
BG	BELOW GRADE	F	FIRE SERVICE	MEZZ MFG	MEZZANINE MANUFACTURER	SD	STORM DRAIN		
BLDG	BUILDING	FA FCO	FIRE ALARM FLCOR CLEANOUT	MIN	MINIMUM	SECT SF	SECTION SQUARE FEET	600	CARBON DIOXIDE
BM BOP	BEAM BOTTOM OF PIPE	FD	FLOOR CLEANOUT	MISC	MISCELLANEOUS	SHT	SHEET	CO2 HE	HELIUM
B05	BOTTOM OF PIPE BOTTOM OF STEEL	FDC	FIRE DEPARTMENT CONNECTION.	MO	MOTOR OPERATED	SIM	SIMILAR	MA MA	MEDICAL AIR
305 301	BOTTOM OF STEEL	FH	FIRE HYDRANT	MPC	MEDIUM PRESSURE CONDENSATE	SMACNA	SHEET METAL AND	MA	MEDICAL VACUUM
BRO	BOARD	FIN	FINISH	MPS	MEDIUM PRESSURE STEAM	SHOOTER	AIR CONDITIONING	N2	NITROGEN
BTU	BRITISH THERMAL UNIT	FLASH	FLASHING	MSG	MANUFACTURED STANDARD GAUGE		CONTRACTORS NATIONAL	N20	NITROUS OXIDE
	S	FLR	FLOOR(ING)	MTD	MOUNTED		ASSOCIATION	02	OXYGEN
CA	COMPRESSED AIR	FPM	FEET PER MINUTE	MTG	MOUNTING	SOV	SHUTOFF VALVE	WAGD	WASTE ANESTHETIC
CAP	CAPACITY	FRPF	FIREPROOF	MTL	METAL	SPEC	SPECIFICATION		GAS DISPOSAL
8	CATCH BASIN	FS	FLOOR SINK	2720	SECTION OF THE PROPERTY OF	·SQ	SQUARE		
D	CONDENSATE DRAIN	FT	FEET/FOOT	N .	NORTH	SS	SANITARY SEWER	1	
CDA -	CLEAN DRY AIR	FURR	FURRING	N/A	NOT APPLICABLE	SST	STAINLESS STEEL	1	
F	CUBIC FEET	FUT	FUTURE	NC	NORMALLY CLOSED	OTZ	STANDARO	1	
CFF	CAP FOR FUTURE	_		NEC .	NATIONAL ELECTRIC CODE	STL	STEEL	1	
CFCI	CONTRACTOR FURNISHED,	GA	GAUGE OR GAGE	NFPA	NATIONAL FIRE	STRUCT	STRUCTURAL	1	
	CONTRACTOR INSTALLED	GALV	GALVANIZED	NC	PROTECTION ASSOCIATION	SUP	SUPPLY	1	
CHWR	CHILLED WATER RETURN	-GC	GENERAL CONTRACTOR	NG NIC	NATURAL GAS NOT IN CONTRACT	SUSP	SUSPENDED	1	
CHWS	CHILLED WATER SUPPLY	GCO	GRADE CLEANOUT	NIC NO	NORMALLY OPEN	SYS	SYSTEM		
21	CAST IRON	CW	CREASE WASTE	NOM	NOMINAL NOMINAL	70.40	TEMPEDATINE /TEMPEDED /	l	
CL C	CENTERLINE	НВ	HOSE BIB	NPW	NON-POTABLE WATER	TEMP	TEMPERATURE/TEMPERED/ TEMPORARY	1	
CLG	CEILING CALILY(INC)	HCP	HANDICAP HOSE BIB	NTS	NOT TO SCALE	TOD	TOP OF DRAIN	1	
CLK CLR	CAULK(ING) CLEAR	HD	HEAD HEAD	NUM	NUMBER	TOD TOS	TOP OF STEEL		
CNT	CENTER	HDWR -	HARDWARE	HUM		TPW	TEMPERED POTABLE WATER	1	
20	CLEANOUT	HGR	HOT GLYCOL RETURN	oc	ON CENTER	TWR	TEMPERED WATER RETURN	1	3.5
COL	COLUMN	HCS	HOT GLYCOL SUPPLY	OD	OUTSIDE DIAMETER	TWS	TEMPERED WATER SUPPLY	1	8
CONC	CONCRETE	HP	HORSE POWER	ODL	OVERFLOW DRAIN LEADER	TYP	TYPICAL		
COND	CONDENSATE	HPC	HIGH PRESSURE CONDENSATE	OH	OVERHEAD			l	
	CONNECTION	HPS	HIGH PRESSURE STEAM	OFOI	OWNER FURNISHED	Ü	URINAL		
CONN	CONSTRUCTION	HORIZ	HORIZONTAL	17.000	OWNER INSTALLED	UBC	UNIFORM BUILDING CODE	1	
	CONSTRUCTION			arei		UFC	UNIFORM FIRE CODE	1	
CONST		HT	HEIGHT	OFGI	OWNER FURNISHED			ı	
CONN CONST CONT CONTR	CONTINUOUS/CONTINUATION CONTRACTOR	HT HTG	HEIGHT HEATING	OFCI	CONTRACTOR INSTALLED	UG	UNDERGROUND		
CONST	CONTINUOUS/CONTINUATION			OS&Y OZ					

NOTE: ALL ABBREVIATIONS LISTED ABOVE MAY NOT APPEAR ON THESE DOCUMENTS.

	PLUMBIN	G LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SANITARY SEWER DOMESTIC COLD WATER DOMESTIC HOT WATER WASTE VENT NATURAL GAS ROOF DRAIN LEADER OVERFLOW DRAIN LEADER		PRESSURE REDUCING VALVE BALL VALVE GATE VALVE AGA RATED NATURAL GAS VALVE UNION HOSE BIBB REDUCED PRESSURE BACKFLOW ASS'
- D C C C C C C C C C C C C C C C C C C	DIRECTION OF FLOW REDUCER PIPE DROP PIPE RISE PIPE RISE VENT THRU ROOF WALL CLEAN-OUT GRADE CLEAN-OUT		PIPE CAP FLOOR DRAIN (ROUND OR SQUARE) FLOOR SINK CHECK VALVE BUTTERFLY VALVE OVERFLOW DRAIN ROOF DRAIN POINT OF CONNECTION TO EXISTING

PLUMBING DRAWINGS GENERAL NOTES:

- 1) PRINTS MUST BE REVIEWED FOR ACCURACY BEFORE STARTING THE JOB. ABSOLUTE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS CANNOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATIONS OF EQUIPMENT & PIPING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. CHECK ALL INFORMATION AND REPORT ANY DISCREPANCIES BEFORE SUBMITTING BID OR FABRICATING AND INSTALLING WORK.
- 2) THESE GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS IN THIS SET AND SHOULD BE TREATED AS IF THEY ARE REFERENCED TO THE ENTIRE SET.
- 3) THE CONTRACTOR IS TO PROVIDE A FULLY OPERATIONAL WASTE AND VENT AND DOMESTIC WATER SYSTEM. THE CONTRACTOR IS TO INSTALL ALL OF THE PIPING, ACCESSORIES, AND FIXTURES PER THE 2000 IPC, IMC, IBC, NFPA, AND THE AHJ (AUTHORITY HAVING JURISDICTION). NOTHING IN THESE PLANS IS TO BE INTERPRETED AS TO ALLOW THE CONTRACTOR TO PROVIDE INSTALLATIONS THAT ARE NOT PER CODE OR THE AHJ.
- 4) ALL DESIGN PRODUCT DATA IS FOR THE ITEM LISTED ONLY. SUBMITTAL DEVIATIONS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REVIEW BY THE ARCHITECT OR ENGINEER DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES FOR THE PRODUCT TO PERFORM OR PHYSICALLY FIT FOR THE APPLICATION AS INDICATED IN THESE DRAWINGS. ALL COORDINATION FOR THE NEW PRODUCT WITH THE OTHER TRADES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO, PHYSICAL DIMENSIONS, WEIGHTS, ELECTRICAL CHARACTERISTICS, ETC. NO ADDITIONAL COSTS TO THE OWNER WILL BE ALLOWED DUE TO SUBSTITUTIONS.
- THE CONTRACTOR FOR THIS WORK NEEDS TO PROVIDE ALL CONNECTIONS TO THE CIVIL WORK FOR ALL UTILITIES AND SERVICES SPECIFIED OR DRAWN IN THIS SET.
- ALL PIPING INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON WARM SIDE OF INSULATION.
- 7) CONTRACTOR TO VERIFY ALL DENTAL TERMINATIONS, TYPE AND LOCATION, WITH THE OWNER AND DENTAL EQUIPMENT SUPPLIER (D.E.S.) PRIOR TO INSTALLATION.
- INFORMATION REGARDING THE SIZE AND LOCATION OF EXISTING UTILITIES IS BASED ON OUR UNDERSTANDING OF THE EXISTING SYSTEMS. THERE ARE NO AS-BUILT OR VERIFIED DESIGN DRAWINGS AVAILABLE. ALL EXISTING CONDITIONS THAT COULD AFFECT THIS INSTALLATION SHALL BE VERIFIED BY THIS CONTRACTOR PRIOR TO BEGINNING NEW WORK.
- 9) ALL MEDICAL AIR, MEDICAL VACUUM LINES TO BE TYPE "K" OR "L" COPPER, PRE-CLEANED, DEGREASED, AND CAPPED. SYSTEMS MUST BE TESTED FOR LEAKS WITH DRY NITROGEN FOR 24 HOURS AT 150 PSI. ALL JOINTS MUST BE SILVER SOLDERED WITH 1000° F MELTING POINT.



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PLUMBING LEGENDS & ABBREV.

SHEET

P0.0

Desert Sage Health Care 2280 American Legion Blvd.

Mountain Home, Idaho

3-15-04

PART 1 - GENERAL

SCOPE OF WORK

- PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS THAT ARE REQUIRED TO PROVIDE A COMPLETE INSTALLATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS INCLUDING THAT REASONABLY INFERRED BY INDUSTRY STANDARDS FOR PROPER EXECUTION OF WORK IN THIS DIVISION.
- PROVIDE CARPENTRY, MASONRY, CONCRETE AND METAL WORK REQUIRED FOR WORK OF THIS SECTION
- COORDINATE WORK DONE TO ACCOMMODATE REQUIREMENTS OF THIS DIVISION TO ENSURE ADEQUACY OF SPACE AND PROPER LOCATION, WHETHER OR NOT WORK IS UNDER THIS DIVISION.
- PROVIDE CUTTING AND PATCHING AS REQUIRED FOR EXECUTION OF WORK PERFORMED UNDER THIS SECTION AND NOT PROVIDED UNDER OTHER SECTIONS.
- ANY DAMAGE THAT OCCURS DUE TO WORK OF THIS DIVISION CAUSED BY LEAKS, F. BREAKS, DISCHARGE OF NORMAL WORK OF CONTRACT, INADVERTENT ACTS, ETC., ARE THE RESPONSIBILITY OF THIS CONTRACTOR. DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPAIRED OR REPLACED WITH LIKE MATERIAL TO THE SATISFACTION OF THE OWNER AND/OR OWNER'S REPRESENTATIVE. REPAIRS OR REPLACEMENT WORK SHALL BE DONE BY CRAFTSMEN SKILLED IN THE TRADE OF THE WORK INVOLVED AND SHALL BE APPROVED BY THE OWNER AND/OR OWNER'S REPRESENTATIVE. DAMAGE CAUSED SHALL INCLUDE BUT NOT BE LIMITED TO UTILITIES OR OTHER ITEMS WHICH ARE TO REMAIN IN USE.
- F. VALVES AND TRIM NOT SPECIFICALLY INDICATED, BUT REQUIRED FOR PROPER FUNCTIONING OF EQUIPMENT, SHALL BE FURNISHED AND INSTALLED BY THE TRADE INSTALLING THE EQUIPMENT.
- CONTRACTOR SHALL NOT PERFORM ANY WORK THAT HE EXPECTS ADDITIONAL PAYMENT FOR, WITHOUT WRITTEN PRIOR APPROVAL FROM THE ARCHITECT.

PROTECTION, STORAGE AND DELIVERY

- COORDINATE WITH OWNER NECESSARY STORAGE AND SHOP AREAS AT THE SITE FOR SAFE AND PROPER STORAGE AND USE OF TOOLS AND MATERIALS IN OWNER APPROVED LOCATIONS WHICH DO NOT INTERFERE WITH THE WORK. RESTORE AREA(S) TO ORIGINAL CONDITION AT COMPLETION OF PROJECT.
- PROTECT EQUIPMENT AND MATERIALS FROM PHYSICAL DAMAGE, CONSTRUCTION DIRT AND THE ELEMENTS. FROM THE TIME THEY ARE SHIPPED BY THE MANUFACTURER TO THE TIME THE BUILDING IS ACCEPTED BY THE OWNER.
- ARRANGE DELIVERY OF PRODUCTS IN TIMELY FASHION TO COORDINATE WITH WORK IN PROGRESS. STORAGE SPACE ON SITE MAY BE LIMITED.
- DELIVER PRODUCTS IN THE MANUFACTURER'S ORIGINAL PACKAGING WITH IDENTIFYING LABELS INTACT AND LEGIBLE. LEGIBLY IDENTIFY UNITS OR ITEMS AS TO INSTALLATION LOCATION AND/OR DRAWING DESIGNATIONS TO PERMIT CHECK BY OWNER'S REPRESENTATIVE AGAINST APPROVED MATERIAL LIST AND SHOP DRAWINGS.
- IMMEDIATELY UPON DELIVERY INSPECT SHIPMENT(S), INCLUDING OWNER FURNISHED ITEMS, TO ASSURE THAT PRODUCTS ARE UNDAMAGED AND IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. SHOULD THE PRODUCT BE DAMAGED OR NOT IN COMPLIANCE WITH REQUIREMENTS, IMMEDIATELY REPAIR AS DIRECTED OR APPROVED. OR ORDER REPLACEMENT AT NO INCREASE IN CONTRACT SUM.

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REPLACE LOST OR DAMAGED MATERIALS AND EQUIPMENT AT NO INCREASE IN CONTRACT SUM.

FEES AND PERMITS

SECURE AND PAY FEES FOR PERMITS, LICENSES, INSPECTIONS AND ROYALTIES REQUIRED FOR WORK OF THIS DIVISION.

REGULATIONS AND STANDARDS

- WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LATEST ADOPTED EDITION, INCLUDING ALL ELEMENTS OF THE
 - 2000 INTERNATIONAL BUILDING CODE (IBC)
 - 2000 INTERNATIONAL MECHANICAL CODE (IMC)
 - 2000 INTERNATIONAL PLUMBING CODE (IPC)
 - 2000 INTERNATIONAL FIRE CODE (IFC)
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 - ANY OTHER APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, AND
- DO NOT CONSTRUE ANYTHING IN THESE DRAWINGS AND SPECIFICATIONS TO PERMIT WORK NOT CONFORMING TO THESE REQUIREMENTS. THE REGULATIONS SHALL GOVERN WHERE THEY REQUIRE HIGHER STANDARDS OR ARE IN CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS. CONSIDER RULINGS AND INTERPRETATIONS OF THE ENFORCING AGENCIES AS PART OF THESE SPECIFICATIONS, COMPLY WITH THE DRAWINGS AND SPECIFICATIONS SHOWING WORK EXCEEDING MINIMUM CODE
- PROVIDE ALL WORK REQUIRED BY THE GOVERNING AUTHORITY. EVEN IF IT IS NOT INDICATED ON DRAWINGS OR IN THE SPECIFICATIONS.

DRAWINGS AND SPECIFICATIONS

CONSIDER ALL DRAWINGS AND THESE SPECIFICATIONS AS A WHOLE AND PROVIDE WORK OF THIS SECTION AS SHOWN ANYWHERE THEREIN. DRAWINGS INCLUDE ALL ARCHITECTURAL, STRUCTURAL, CIVIL, AND ELECTRICAL DRAWINGS. PRINTS MUST BE REVIEWED FOR ACCURACY BEFORE STARTING THE JOB. ABSOLUTE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS CANNOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATIONS OF EQUIPMENT COVERED BY THESE SPECIFICATIONS AND WORK OF OTHER TRADES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. CHECK ALL INFORMATION AND REPORT ANY DISCREPANCIES BEFORE SUBMITTING BID OR FABRICATING WORK.

SUBMITTAL DATA

SUBMIT FOR REVIEW ALL ATTACHMENTS TO STRUCTURE, ARCHITECTURAL ACCESS PANELS, ALL FIXTURES AND PIECES OF EQUIPMENT TO BE INSTALLED ON THE JOB. SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO VALVES AND PIPE LINE ACCESSORIES AND INSULATION. PROVIDE ALL REQUIRED SUBMITTAL DATA IN COMPLETE SETS, BOUND AND INDEXED BY CATEGORY, USE, ETC. CLEARLY IDENTIFY EACH ITEM IN THE SUBMITTAL FOR INSTALLATION INTO THE PROJECT. PROVIDE A COPY OF THE REVIEWED SUBMITTALS FOR OWNERS O&M MANUAL

1.7 SUBMITTALS

A. PREPARE THREE (3 PLUS THE NUMBER REQUIRED FOR THE GENERAL CONTRACTORS USE) COPIES FOR ALL EQUIPMENT AND MATERIALS. SUBMIT TO ARCHITECT FOR REVIEW AND DISTRIBUTION.

WORKMANSHIP AND MATERIALS

- EMPLOY ONLY EXPERIENCED, COMPETENT AND PROPERLY EQUIPPED PERSONNEL ON
- PROVIDE HIGH QUALITY WORKMANSHIP IN INSTALLATION OF EQUIPMENT AND
- USE ONLY NEW MATERIALS IN PERFECT CONDITION, INSPECT ALL MATERIALS UPON ARRIVAL AT JOB SITE AND IMMEDIATELY REMOVE DEFECTIVE ITEMS FROM THE SITE.

INSPECTION 19

WORK MAY BE INSPECTED AT ANY TIME BY THE OWNER OR HIS REPRESENTATIVE. OWNER OR REPRESENTATIVE SHALL BE NOTIFIED 48HRS PRIOR TO COVER. WORK COVERED OR CONCEALED BEFORE BEING INSPECTED AND APPROVED SHALL BE OPENED AND UNCOVERED UPON REQUEST.

OPERATION AND MAINTENANCE MANUAL INSTRUCTIONS.

A. PREPARE TWO (2) COPIES FOR ALL EQUIPMENT INCLUDING THE FINAL AIR/WATER BALANCE REPORT.

1.11 SITE CLEAN-UP

- AFTER ALL OTHER WORK HAS BEEN ACCOMPLISHED, CLEAN ALL EXPOSED PIPING, DUCTWORK, FIXTURES, EQUIPMENT AND SUPPORTS, TOUCH UP PAINT, ON ANY EQUIPMENT SCRAPED. SCRATCHED OR DAMAGED DURING CONSTRUCTION.
- LEAVE ALL AREAS INVOLVING MECHANICAL WORK IN A CONDITION SATISFACTORY TO THE OWNER. REMOVE ALL CRATES, CARDBOARD, PACKING MATERIAL, WASTE MATERIAL, AND OTHER DEBRIS LEFT OVER FROM CONSTRUCTION.

PART 2 - PRODUCTS

SPECIFIC MANUFACTURER AND MODEL

- TRADE NAMES ARE USED TO ESTABLISH STANDARDS. SIMILAR PRODUCTS FROM OTHER, MANUFACTURERS MAY BE SUBSTITUTED AFTER SUBMITTAL IS REVIEWED BY THE ENGINEER.
- B. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL CHANGES DUE TO SUBSTITUTIONS OR ALTERNATES TO THE DESIGN DRAWINGS. AREAS OF COORDINATION CONCERN INCLUDE BUTNOT LIMITED TO; DIMENSIONS, STRUCTURAL IMPACTS, ELECTICAL CHARICTERISTICS, ETC... THIS CONTRACTOR WILL BE RESPONSIBLE FOR ANY INCREASE IN PROJECT COST OR IMPACT TO SHEDULE DUE TO THESE SUBSTITUTIONS.

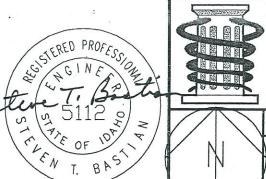
22 U.L. LABEL

A. FURNISH UL LABELED AND LISTED MATERIALS AND EQUIPMENT EXCEPT WHEN EQUIPMENT IS OF A TYPE FOR WHICH LABELING OR LISTING SERVICES ARE NOT AVAILABLE FROM UL

FINISHES AND PAINTING

PROVIDE ALL EQUIPMENT WITH A FACTORY FINISH. TOUCH UP ANY CHIPS OR SCRAPES THAT MAY OCCUR DURING HANDLING OR INSTALLATION.





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PLUMBING SPECIFICATIONS

Desert Sage Health Care 2280 American Legion Blvd. Mountain Home, Idaho

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PART 2 - PRODUCTS (continued from P0.1)

GENERAL PIPE MATERIALS

- A. LPG PROPANE: STEEL: BLACK OR GALVANIZED CONFORMING TO ASTM SPECIFICATIONS A-53A. PIPE SIZE 2 1/2" AND LARGER SHALL BE SCHEDULE 40. ASTM A-120 IS ALLOWED FOR THREADED PIPE 2" AND SMALLER.
- WATER: COPPER: SEAMLESS TYPE K OR L, HARD DRAWN, CONFORMING TO
- SANITARY WASTE VENT: ABS: ACRYLONITRILE BUTADIENE STYRENE PLASTIC PIPE, SCHEDULE 40 CONFORMING TO ASTM D 2661.
- NATURAL CAS AND WATER PIPE WRAPPING: WRAP PIPE BURIED IN GROUND WITH "SCOTCHWRAP" OR EQUAL. WRAP STRAIGHT RUNS WITH .010" THICK TAPE DOUBLY SPIRALLY APPLIED IN HALF-LAP LAYERS. PRE-WRAP ALL JOINTS, VALVES, AND SIMILAR IRREGULAR SURFACES WITH .010" THICK TAPE.
- E. MA: MEDICAL GRADE COPPER TUBE TYPE K OR L, CLEANED DEGREASED CAPPED COPPER FOR MEDICAL USE ONLY.
- F. MV TO BE SCHEDULE 40 PVC WASTE AND VENT FITTINGS.

PIPE FITTINGS 25

- WELDED: PIPING 2 1/2" AND LARGER SHALL HAVE BUTT WELDED STEEL FITTINGS.
- THREADED: PIPING 2" AND SMALLER SHALL HAVE AAR CLASS 300 MALLEABLE IRON FOR UNIONS AND CLASS 1 MALLEABLE IRON FOR ALL OTHER FITTINGS. MATERIAL SHALL CORRESPOND TO ASTM SPECIFICATION A-197. GALVANIZED OR BLACK TO
- SOLDERED: WROUGHT COPPER CONFORMING TO ANSI SPECIFICATION B16.22 OR CAST BRASS CONFORMING TO ANSI SPECIFICATIONS B16.18 SPECIFICALLY DISIGNED
- BRAZED: WROUGHT COPPER CONFORMING TO ANSI SPECIFICATION B16.22 SPECIFICALLY DESIGNED FOR BRAZING.
- CAST IRON SOIL: SERVICE WEIGHT HUBLESS PER CISPI STANDARD 301. HOT COAL TAR PITCH COATING INSIDE AND OUT.

PIPE JOINTS

- FLANGED PIPE: PROVIDE WELD NECK FLANGES WITH 1/8" GASKETS SUITABLE FOR APPLICATIONS. BOLTS, WASHERS AND NUTS SHALL BE CADMIUM PLATED, OR ZINC
- SCREWED METALLIC PIPE: APPLY RECTORSEAL NO. 5 LUBRICANT OR PERMACEL, P-412 1/2" WIDE WHITE TEFLON PIPE JOINT SEALANT TAPE TO MALE PIPE THREADS WHEN MAKING UP JOINTS.
- SOLDERED: USE 95/5 LEAD FREE SILVER SOLDER AND WATER SOLUBLE FLUX. JOINTS SHALL CONFORM TO ASTM B828.
- BRAZED: USE BCUP PHOS-COPPER BRAZING ALLOY. JOINTS SHALL CONFORM TO
- HUBLESS: 304 STAINLESS STEEL BAND AND CLAMP WITH NEOPRENE SLEEVE PER CISPI STANDARD 301. CLAMP-ALL, TYLER OR HUSKY STANDARD CISPI COUPLINGS.

F. UNIONS:

1. STEEL PIPE: 300 LB. BRONZE TO IRON GROUND JOINT. 2. COPPER TUBING: BRONZE SWEAT UNIONS WITH COPPER TO IPS ADAPTERS.

VALVES + PIPING SPECIALTIES

- PROVIDE ISOLATION VALVES AT EACH BRANCH FROM MAIN DISTRIBUTION ON ALL PIPING SYSTEMS. LOCATE VALVES AS CLOSE TO MAIN AS POSSIBLE.
- INSTALL ALL VALVES SO THEIR STEMS ARE LOCATED ABOVE HORIZONTAL PLANE OF THE PIPE IN WHICH THEY ARE INSTALLED. IN GENERAL, LOCATE VALVES IN ACCESSIBLE LOCATIONS WITH ADEQUATE CLEARANCE AROUND HAND WHEELS OR LEVERS FOR EASY OPERATION.
- PROVIDE ALL VALVES AND STRAINERS, FULL PIPE SIZE UNLESS INDICATED OTHERWISE.
- RENEWABLE PARTS, INCLUDING DISCS, PACKING AND SEALS SHALL BE OF TYPES RECOMMENDED BY VALVE MANUFACTURER FOR INTENDED SERVICE. INSTALL ALL VALVES SO THEIR STEMS ARE LOCATED ABOVE HORIZONTAL PLANE OF THE PIPE.
- E. FOR GENERAL USE VALVES (PLUMBING AND HVAC):
 - BALL (FULL PORT THROUGH 3"): WATTS FBVS-1 SERIES.
 - GATE (THROUGH 4"): WATTS WGV-1 SERIES.
 - GAS (THROUGH 1"): WATTS GBV SERIES.
 - GLOBE (THROUGH 2"): WATTS GLV SERIES. CHECK (THROUGH 3"): WATTS WCV-2 SERIES.
 - STRAINER (THROUGH 2"): WATTS S777SI SERIES.
 - BALANCE (THROUGH 3"): WATTS CSM-61-M1 SERIES.
 - BUTTERFLY (3" & LARGER)
- F. WATER HAMMER ARRESTER: SOUIX CHEIF, PPP, SMITH.
 - INSTALL PER MANUFACTURERS SIZING CRITERIA.
 - PROVIDE ACCESS PANELS AS NEEDED.

ALTERNATE MANUFACTURERS: APOLLO, RED & WHITE, MILWAUKEE, NIBCO, ARMSTRONG, AND B&G.

PIPE HANGERS AND SUPPORTS

- A. DESIGN CRITERIA:
 - 1. ALL PIPE WILL BE SUPPORTED WITH MANUFACTURED PIPE SUPPORTS AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING: (A) MSS SP-58 PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN, AND MANUFACTURER, (B) MSS SP-69 PIPE HANGERS AND SUPPORTS -SELECTION AND APPLICATION, (C) MSS SP-89 PIPE HANGERS AND SUPPORTS - FABRICATION AND INSTALLATION PRACTICE, (D) ASME B31.1 AND B31.9.

B. GENERAL:

- USE SUPERSTRUT, B-LINE, GRINNELL, PHD, OR TOLCO HANGERS, SUPPORTS AND STRUCTURAL ATTACHMENTS.
- SUPPORT ALL PIPE LINES INDIVIDUALLY WITH HANGERS, EACH BRANCH HAVING AT LEAST ONE HANGER.
- SUPPORT ALL PIPING SO THAT IT IS FIRMLY HELD IN PLACE BY APPROVED HANGERS AND SUPPORTS AND SPECIAL HANGERS AS REQUIRED.

- SIZE HANGERS PROPERLY TO FIT AROUND BARE PIPE OR INSULATION AS REQUIRED. INSULATION SHALL BE CONTINUOUS, USE INSULATION SHEILDS AT
- SPACE HANGERS OR SUPPORTS FOR HORIZONTAL WITH THE MAXIMUM DISTANCE BETWEEN HANGERS AS FOLLOWS OR AS SHOWN ON DRAWINGS.
 - A. COPPER 2" AND SMALLER -6'-0"
 - B. STEEL 1" AND SMALLER 6'-0"
 - C. COPPER 2 1/2" AND LARGER 10'-0"
 - D. STEEL 1 1/4" " AND LARGER 10'-0"
 - E. CAST IRON SOIL LOCATE HANGERS WITHIN 18" OF EACH JOINT AT A MAXIMUM 8'-0" SEPARATION BETWEEN
- SUPPORT VERTICAL PIPING AT EVERY STORY. COPPER PIPING SUPPORTS SHALL NOT EXCEED 10 FEET.
- DO NOT USE WIRE, PLUMBER'S TAPE OR OTHER MAKESHIFT DEVICES FOR
- NO VALVE, PIECE OF PIPE, OR PIECE OF EQUIPMENT SHALL BE USED TO SUPPORT THE WEIGHT OF ANY PIPE.
- PROVIDE A SUPPORT OR HANGER CLOSE TO EACH CHANGE OF DIRECTION IN THE PIPE, EITHER HORIZONTAL OR VERTICAL.
- 10. SUPPORT ROOF TOP PIPING A MINIMUM OF 6" ABOVE ROOF SURFACE USING EITHER MANUFACTURED PIPING SUPPORTS OR 4x6x12 REDWOOD BLOCKS WITH "U" STRAPS.

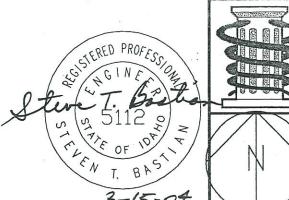
C. MATERIALS:

GENERAL PIPING: INDIVIDUAL SUSPENDED PIPING - HANGERS AS SCHEDULED BFLOW, COMPLETE WITH THREADED ROD, SUPERSTRUT OR B-LINE.

PIPE SIZE	HANGER	MINIMUM ROD SIZE
1/2" TO 2"	SUPERSTRUT C-711	1/4"
2 -1/2" TO 3"	SUPERSTRUT C-711	3/8"
4" TO 6"	SUPERSTRUT C-710	1/2*

- D. STEEL SHAPES: ASTM A-36.
- BEAM CLAMPS: B-LINE B751 WITH B753 SWIVEL NUT ARE TO BE USED FOR LESS THAN 300 LB LOADS.
- PENETRATIONS AND ESCUTCHEONS: PROVIDE ESCUTCHEON PLATES THAT ARE NEAT, RIGID, SECURELY ATTACHED WHERE WORK OF THIS SECTION PENETRATES WALLS OR OTHER SURFACES. PROVIDE STAINLESS STEEL OR CHROME PLATED BRASS.
- G. SEISMIC: PROVIDE SEISMIC RESTRAINT AS REQUIRED PER UBC.





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PLUMBING SPECIFICATIONS

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PART 2 - PRODUCTS (continued from P0.2)

PIPE INSULATION 29

- PIPES SHALL BE INSTALLED WITH PRE FORMED FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. VALVES AND FITTINGS SHALL BE INSULATED WITH FIBERGLASS BATT THAT IS COVERED WITH PLASTIC OR CLOTH COVERS. SEAL ALL JOINTS VAPOR
- PROVIDE ALUMINUM JACKET OVER ALL OUT-DOOR INSULATED PIPING. SEAL WATER
- THICKNESSES SHALL BE AS FOLLOWS:
 - DOMESTIC HOT, COLD WATER, AND HOT WATER RECIRC-1-1/2" AND SMALLER-1/2" THICK 2" THRU 4"-1" THICK

ARCHITECTURAL ACCESS PANELS AND DOORS

- WHERE REQUIRED: WHEREVER A PIECE OF EQUIPMENT IS INACCESSIBLE AND REQUIRES ACCESS FOR MAINTENANCE, REPAIR OR ADJUSTMENT.
- SIZE: SIZE IS DEPENDENT UPON THE RELATIONSHIP OF THE DOOR TO THE PRODUCT BEING SERVICED. THEREFORE, THE SIZE OF THE DOOR SHALL BE SELECTED TO PROVIDE CONVENIENT ACCESS TO ITS CONTENTS.
- FRAME: THE FRAME SHALL BE FLUSH MOUNTED AND SHALL BE SUITABLE FOR THE BUILDING SURFACE IN WHICH IT IS BEING MOUNTED. PROVIDE FURRING AROUND THE DOOR FRAME AS DIRECTED WHERE THERE IS INSUFFICIENT DEPTH TO ALLOW A FLUSH MOUNTED FRAME AND DOOR.
- DOOR: STEEL OR STAINLESS STEEL AS INDICATED HEREIN: AND OF SUFFICIENT GAUGE TO PREVENT PERMANENT DEFLECTION FROM NORMAL USE.
- HINGES: THE DOOR SHALL HAVE A MINIMUM OF TWO SWING OUT TYPE HINGES WHICH ALLOW THE DOOR TO BE OPENED 180 DEGREES: QUANTITY AS REQUIRED TO SUIT DOOR HEIGHT.
- LOCK: SCREW DRIVER LOCK, QUANTITY AS REQUIRED TO SUIT DOOR HEIGHT AND WIDTH
- FIRE RATED DOORS: PROVIDE WHEN LOCATED IN FIRE RATED SURFACES.
- FURNISH DOORS TO SUBCONTRACTORS FOR INSTALLATION AND COORDINATE LOCATIONS
- MANUFACTURER: CESCO OR EQUAL.
- LOCATION: J.

TYPE

FINISH

DRYWALL

STYLE "DW"

BAKED ENAMEL PRIME COAT

STAINLESS STEEL

CERAMIC TILE

STYLE "M" STAINLESS

FIRE RATED SURFACES

FIRE RATED ACCESS DOOR

BAKED ENAMEL

PENETRATIONS PER ARCHITECTURAL DRAWINGS, PROVIDE UL LISTED FIRE PENETRATION ASSEMBLIES AND CAULKING WHERE REQUIRED

PART 3 - EXECUTION

COORDINATION

- CUTTING AND REPAIRING: INCLUDE IN THE WORK ALL CUTTING AND REPAIRING NECESSARY AND REQUIRED FOR THE INSTALLATION. REPAIRING SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED, IN A MANNER SATISFACTORY TO THE OWNER.
- COORDINATION WITH OTHER DIVISIONS: COORDINATE ELECTRICAL AND CONTROL INTERLOCKS OF MECHANICAL EQUIPMENT WITH THE ELECTRICAL DIVISION.

STRUCTURAL MODIFICATION

A. DO NOT CUT STRUCTURAL MEMBERS, WITHOUT PERMISSION FROM ARCHITECT.

WORKMANSHIP

WORKMANSHIP SHALL BE FIRST CLASS THROUGHOUT, PERFORMED ONLY BY COMPETENT AND EXPERIENCED WORKMEN IN A MANNER SATISFACTORY TO THE OWNER. REPLACE WORK FALLING BELOW THESE STANDARDS AS DIRECTED BY THE OWNER. CONSTANT SUPERVISION OF THE WORK EITHER BY THE CONTRACTOR OR HIS COMPETENT REPRESENTATIVE SHALL BE MAINTAINED.

GENERAL PIPING REQUIREMENTS

- ALL PIPING SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED OR A. DIRECTED OTHERWISE. INSTALL PIPING PARALLEL TO BUILDING SURFACES WITH A MINIMUM OF FITTINGS.
- INSTALL ALL GRAVITY LINES 3" AND SMALLER AT 2% SLOPE MINIMUM, 4" AND LARGER AT 2% SLOPE OR AS NOTED ON THE DRAWINGS.
- PREPARE ALL PIPING TRENCHES AND BACKFILL PER RECOGNIZED. WRITTEN INDUSTRY STANDARDS
- CLOSE ENDS OF PIPE IMMEDIATELY AFTER INSTALLATION. LEAVE CLOSURE IN PLACE UNTIL REMOVAL IS NECESSARY FOR COMPLETION OF THE INSTALLATION.
- EACH PIPING SYSTEM SHALL BE THOROUGHLY FLUSHED AND PROVEN CLEAN.
- INSTALL PIPING AT COILS, SO THAT EQUIPMENT CAN BE REMOVED AND/OR SERVICED WITH A MINIMUM OF PIPE DISLOCATION. PROVIDE UNIONS AT ALL COILS FOR EASE OF REMOVAL.
- SERVICE SHUT-OFF VALVES SHALL BE INSTALLED ON EACH BRANCH OFF ALL PIPING MAINS.
- CUT PIPING ACCURATELY TO JOB MEASUREMENTS AND INSTALL IT WITHOUT SPRINGING OR FORCING, TRUE TO LINE AND GRADE, GENERALLY SQUARE WITH BUILDING AND ADEQUATELY SUPPORTED TO PREVENT SAGGING OR UNDUE STRESS ON PIPE, FITTINGS AND ACCESSORIES.
- INSTALL DIELECTRIC UNIONS AT POINTS OF CONNECTION BETWEEN DISSIMILAR
- PROVIDE UNIONS OR FLANGES AT ALL CONNECTIONS TO EQUIPMENT, ON BOTH SIDES OF CONTROL VALVES AND ELSEWHERE AS REQUIRED TO FACILITATE MAINTENANCE AND EASY REMOVAL.
- PROVIDE CHROME PLATED ESCUTCHEONS FOR PIPING PENETRATIONS THROUGH WALLS, FLOORS OR CEILINGS THAT ARE EXPOSED TO VIEW. ARRANGE PIPING AND HANGERS TO ALLOW FOR EXPANSION, CONTRACTION AND STRUCTURAL
- MAKE CHANGES IN SIZE OR DIRECTION WITH MANUFACTURED FITTINGS.
- INSTALL PIPING FULL SIZE THROUGH SHUT-OFF VALVES, BALANCING VALVES,
- CORE DRILLING: PROVIDE ALL EQUIPMENT, LABOR AND MATERIAL FOR CORE DRILLING HOLES WHERE PIPING PENETRATES EXISTING CONCRETE WALLS OR FLOORS. DRILL HOLES 1" LARGER THAN O.D. OF PIPE. PROTECT ALL SURROUNDING AREAS FROM DAMAGE BY WATER OR DUST WHILE CORE DRILLING. WHERE PIPES PASS THROUGH SLEEVES OR CORE DRILLED HOLES. PROVIDE BACKER ROD AND FILL OUTER 1/2" DEPTH OF THE ANNULAR SPACE WITH SEALER

GENERAL EQUIPMENT INSTALLATION REQUIREMENTS

POSITION EQUIPMENT TO RESULT IN GOOD APPEARANCE. PROVIDE EASY ACCESS TO ALL COMPONENTS FOR MAINTENANCE AND ADEQUATE SPACE FOR TUBE REMOVAL OR OTHER REPAIRS. INSTALL THE PIPING AND PIPE LINE ACCESSORIES SO THEY DO NOT INTERFERE WITH EQUIPMENT ACCESS. INSTALL EQUIPMENT ISOLATION VALVES IN SUCH A MANNER TO ALLOW COMPLETE MAINTENANCE AND DISASSEMBLY OF EQUIPMENT WITHOUT HAVING TO REMOVE EQUIPMENT ISOLATION VALVES.

3.6 CLEANING

FLUSH PIPES FREE FROM FOREIGN SUBSTANCES BEFORE INSTALLING VALVES, STOPS OR MAKING FINAL CONNECTIONS. FURNISH AND INSTALL VALVED CONNECTIONS TO PIPING SYSTEMS TO FACILITATE FLUSHING, OTHER THAN FOR EQUIPMENT CONNECTIONS. WHEN FLUSHING PIPING SYSTEMS, CIRCULATE WATER AT A VELOCITY OF 8 FPS TO THOROUGHLY FLUSH THE PIPING SYSTEM ELIMINATING THE FOREIGN SUBSTANCES. CLEAN ALL PIPING AND EQUIPMENT BEFORE INSTALLATION AS ACCEPTED BY THE OWNER, REMOVE ANY PIECE OF EQUIPMENT (COILS, ETC.) WHICH MAY GET DAMAGED AS A RESULT OF INADEQUATE OR IMPROPER FLUSHING. INSTALL LOOPS AT END OF LINE OR AT RUN OUTS TO EQUIPMENT TO ENABLE FLUSHING OR BLOWDOWN ACTIVITIES. PROVIDE CLEANING PER UPC OR AHJ (WHICHEVER IS MOST STRINGENT).

TESTS

- PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO PERFORM TESTS. ALL TESTS SHALL BE PER UPC.
- PROTECT VALVES AND EQUIPMENT FROM DAMAGE DURING TESTS. INCLUDE CONNECTION TO PREVIOUSLY TESTED SECTIONS, IF THE SYSTEMS ARE TESTED IN SECTIONS. PROTECT OWNER'S EQUIPMENT AND MECHANICAL SYSTEMS AS
- FINAL TESTING TO BE DONE ON COMPLETE SYSTEMS, NOT SEGMENTS.
- PROVIDE MEDICAL GAS PIPING TESTS PER NFPA 99.

BALANCING AND ADJUSTING

- ADJUST ALL BALANCING VALVES, HOT WATER THERMOSTATS, FLOW AND PRESSURE REGULATORS AND ANY OTHER ADJUSTABLE EQUIPMENT FOR OPTIMUM PERFORMANCE AND TO SUIT JOB CONDITIONS.
- ADJUST ALL PIPING BALANCE VALVES TO FLOW INDICATED GPM AS NOTED ON DRAWINGS, PLUS OR MINUS 10%.
- SUBMIT COMPLETE BALANCE REPORT TO ARCHITECT AND ENGINEER. LIST ALL EQUIPMENT & FLOWS. PROVIDE REVIEWED REPORT TO OWNER IN O&M MANUAL.

START-UP SERVICES

CONTRACTOR SHALL ALLOT A MINIMUM OF 2 HOURS FOR START UP SERVICES. START AND OPERATE ALL SYSTEMS AS REQUIRED BY THE OWNER. INSTRUCT OWNER'S REPRESENTATIVE ON THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT.

OPERATING AND MAINTENANCE INSTRUCTIONS (O+M MANUAL)

A PREPARE TWO (2) COPIES FOR ALL EQUIPMENT INCLUDING THE FINAL AIR/WATER BALANCE REPORT.

WARRANTY

- THE CONTRACTOR SHALL WARRANTY HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION. THIS INCLUDES WORKMANSHIP, MATERIALS, AND EQUIPMENT. CONTRACTOR SHALL PROVIDE LABOR. MATERIALS AND EQUIPMENT TO CORRECT ANY FAULTY INSTALLATIONS AND WORKMANSHIP.
- THE OWNER IS RESPONSIBLE FOR ROUTINE MAINTENANCE AND CARE.





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PLUMBING SPECIFICATIONS

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Mountain Home, Idaho

ENAMELED CAST IRON AND VITREOUS CHINA WATER COOLERS STAINLESS STEEL SINKS SERVICE SINKS

ROOF DRAINS, FLOOR SINKS, FLOOR DRAINS AND TRAPS

BACKFLOW PREVENTION DEVICES, PRESSURE REDUCING VALVES

SHOWER VALVES, MIXING VALVES

EMERGENCY SHOWER/EYEWASH

TRAP PRIMERS AND SHOCK ABSORBERS

FAUCETS

SENSOR FAUCETS

FIXTURE SUPPORTS

FLUSH VALVES

WATER HEATERS

,	.51							PLUMBING FIXTURE AND MINIMUM CONNECTION SIZE UNLESS			TSC	CHE	DUL	E			
			RO	UGH-IN .	SIZE				T			ROL	JGH-IN .	SIZE			
TAG	DESCRIPTION	WASTE	VENT	TRAP	CW	HW	REMARKS	MANUFACTURER & MODEL	TAG	DESCRIPTION	WASTE	VENT	TRAP	CW	HW	REMARKS	MANUFACTURER & MODEL
WC-1	WATER CLOSET	3"	2"	INTEGRAL	1"		WALL HUNG, SIPHON JET (ADA COMPLANT) LEVER TO BE ON WIDE SIDE OF STALL	MODEL - KOHLER K-4330 MATERIAL - VITREOUS CHINA, SIZE - ELONGATED BOWL, SEAT - K-4670-C OPEN FRONT, WHITE,	DS-1	DENTAL SINK — COUNTER	1-1/2*	1-1/2*	1-1/4"	1/2*	1/2*	OVAL, COUNTERTOP (ROUGH-IN ONLY, FINAL CONNECTION BY CONTRACTOR)	MANUFACTURER - BY D.E.S. MODEL - BY D.E.S.
							0.02 0. 0.02	VALVE - ZURN ZR-6000-WS1 CARRIER - JAY R. SMITH 200 SERIES WITH M51 SUPPORT MOUNT	WCO-1	WALL CLEANOUT						SIZE TO MATCH SS PIPE.	MODEL - JAY R SMITH #(4472T).
L-1	LAVATORY- COUNTER	1-1/2"	1-1/2"	1-1/4"	1/2*	1/2"	OVAL, COUNTERTOP	PER ADA REQUIREMENTS. MODEL - KOHLER PENNINGTON K-2196-4,	FS-1	FLOOR SINK	2"	2*	2"	1/2" TRAP PRIME CONN.	-	CAST-IRON P-TRAP.	MODEL — JAY R SMITH #(3101—Y—12) WITH HALF GRATE AND SEDIMENT BUCKET, TRAP PRIMER CONNECTION. NOTE: VERIFY TRAP PRIMER.
								MATERIAL - VITREOUS CHINA, SIZE - 20-1/4" x 17-1/2", FAUCET - DELTA 501-WF-HGMHDF SINGLE LEVER FAUCET WITH .5 GPM VANDEL RESISTANT AERATOR,	RD-1		SEE PLANS	-	-	-			MODEL - JAY R SMITH FIG. #(1015-Y-C-U-R). FURNISH WITH UNDER-DECK CLAMP, ADJUSTABLE EXTENSION, VANDAL-PROOF DOME AND SUMP RECEIVER.
							2	TRAP - KOHLER K-8999, SUPPLIES - EBC LAH16K-R15-CT3-CF, DRAIN - KOHLER K-13885 OFFSET GRID DRAIN ASSEMBLY FOR WHEELCHAIN.	OD-1	DRAIN	SEE PLANS	-	-	-	-		MODEL - JAY R SMITH FIG. #(1074-Y-C-U-R-RS). FURNISH WITH UNDER-DECK CLAMP, ADJUSTABLE EXTENSION, VANDAL-PROOF DOME, SUMP RECEIVER, RAIN SHIELD AND PVC WATER DAM EXTENSION FOR OVERFLOW SERVICE.
S-1	SINK (SINGLE COMPARTMENT)	2"	1-1/2"	1-1/2"	1/2"	1/2"	SELF RIM COUNTERTOP	MODEL - ELKAY BLR-15, MATERIAL - 18 GAUGE STAINLESS STEEL, TYPE 304 SIZE - 15"x15"x6" FAUCET - JUST JWF-200 MODIFIED SPOUT SU-357-HAS TRAP - EBC TAN150-BF 1-1/2"x1-1/2", 17 GA SUPPLIES - EBC LAH16K-R20-CT3-CF,		DRINKING FOUNTAIN	2"	1-1/2*	1-1/4"	1/2"		WALL HUNG	MODEL - HAWS 1011 MATERIAL - STAINLESS STEEL ELECTRICAL - 120V/10, 244W, . SIZE - 32"x18-1/2"
										ICE MAKER	-	-	-	1/2**	-	PROVIDE WALL VALVE BOX.	MODEL - GUY GRAY MODEL BIM875 SUPPLY - 1/2"x1/4" STOP
S-2	SINK (DOUBLE COMPARTMENT)	2"	1-1/2"	1-1/2*	1/2"	1/2"	SELF RIM COUNTERTOP (TAP MASTER FOOT CONTROL PROVIDED BY D.E.S., INSTALLED BY CONTRACTOR)	MODEL - ELKAY LR-3321, MATERIAL - 18 GAUGE STAINLESS STEEL, TYPE 304 SIZE - 33"x21"x8" FAUCET - ELKAY LKC-2433 WITH HOSE AND SPRAY (SINK SHALL BE PUNCHED TO ACCOMMODATE FAUCET AND SPRAY) IRAP - EBC TAN150-BF 1-1/2"x1-1/2", 17 GA. SUPPLIES - EBC LAH16K-R20-CT3-CF		SERVICE SINK	3*	2*	3*	1/2*	1/2*	FLOOR MOUNTED, SQUARE	MODEL - FIAT #(MSB-24-24) MATERIAL - MOLDED STONE FAUCET - 830-AA WITH VACUUM BREAKER TRAP - 3", CAST IRON SUPPLIES - INTEGRAL STOPS DRAIN - INTEGRAL ACCESSORIES - 832-AA HOSE AND WALL HOOK, 889-CC STAINLESS STEEL MOP HANGER, MSG2424 SPLASH CATCHER PANELS
								DRAIN - ELKAY LKJ-35 ACCESSORIES - EBC WE150L16, 17 GA. CONTINUOUS DRAIN ASSEMBLY	RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER				LINE SIZE		WITH 1/4 TURN BALL VALVE AND BRONZE STRAINER, WALL MOUNT @ +36" AFF	MODEL — WATTS SERIES #909—QT—S ACCESSORIES — AIR GAP DRAIN ASSEMBLY NOTE: PIPE DRAIN ASSEMBLY TO FLOOR DRAIN.
	EXAM SINK (SINGLE COMPARTMENT)	u		1-1/2*		1/2*	SELF RIM COUNTERTOP	MODEL - ELKAY BLH-15-C, MATERIAL - 18 GAUGE STAINLESS STEEL, TYPE 302 SIZE - 15"x15"x7" FAUCET - ELKAY LKA-2438 WITH BH-4 4" WRISTBLADES TRAP - 1-1/2", SUPPLIES - BRASSCRAFT STR-1715-J, DRAIN - ELKAY LK-36	WH−1	WATER HEATER		(2) 3**ø		3/4"	3/4"	GAS FIRED, HIGH EFFICIENCY CONCENTRIC VENT THRU ROOF (2) 3" PVC PIPES, FLUE VENT PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR.	MODEL — BRADFORD WHITE PDV-100S-200-3N (100 GALLON) BURNER — 199,999 BTU INPUT, HIGH EFFICIENCY RECOVERY — 194 GPH
ES-2	EXAM SINK — COUNTER	1-1/2"	1-1/2"	1-1/4"	1/2"	1/2"	OVAL, COUNTERTOP	MODEL — KOHLER PENNINGTON K-2196-4, MATERIAL — VITREOUS CHINA, SIZE — 20-1/4" x 17-1/2", FAUCET — DELTA 501-WF-HGMHDF SINGLE LEVER FAUCET WITH .5 GPM VANDEL RESISTANT AERATOR,	FD-1	FLOOR DRAIN	2"	2"	2"	1/2" TRAP PRIME CONN.		6"Ø ROUND GRATE CAST IRON P-TRAP.	MODEL — JAY R SMITH #(2006—A5—CP) CHROME STRAINER AND TRAP PRIMER CONNECTION.
					g			TRAP - KOHLER K-8999, SUPPLIES - EBC LAH16K-R15-CT3-CF, DRAIN - KOHLER K-13885 OFFSET GRID DRAIN ASSEMBLY FOR	D-1	DISPOSAL	1-1/2"		1-1/2"			COORDINATE SWITCHED DUPLEX OUTLET WITH DIVISION 16.	MODEL - IN-SINK-ERATOR MODEL BADGER 1, 1/3 HP, 120V ACCESSORIES - PROVIDE COMPLETE WITH PLUG-IN TYPE CORD.
RFF-1	NAT. GAS						NAT. GAS REFRIGERATOR TO	WHEELCHAIR. MODEL - CRYSTAL COLD MODEL # CC15NG,		DOUBLE GRADE CLEANOUT						ROUND, UNFINISHED FLOORS EXTRA HEAVY DUTY.	MODEL - JAY R SMITH SERIES (4223L) W/ CAST IRON TOP.
	REFRIGERATOR						HAVE 10-12 INCHES	SIZE $-63-1/2$ "H x $28-1/2$ "W x $34-1/2$ "D,		PLASTER TRAP						SIZE TO MATCH SS	OWNER FURNISHED, CONTRACTOR INSTALLED
							CLEARANCE ON TOP AND 4-6 INCHES ON THE SIDES	GAS SUPPLY PRESSURE - 11.5" WATER COLUMN, ACCESSORIES - PROVIDE WITH NATURAL GAS CONVERSION, 3 YEAR EXTENDED WARRANTY.	WB-1	WASHER HOOK-UP BOX	2"	1-1/2	2"	1/2*	1/2"	FLUSH WALL MOUNTED	MODEL - GUY GRAY #(B200), 1/2" HOT, COLD, AND WASTE
SH-1	SHOWER	2"	2*	2*	1/2*	1/2"	ADA COMPLIANT	SHOWER - FIBERGLASS SYSTEMS INC. # CS-3838ADA.5 ACCESSORIES - PROVIDE WITH DELTA #1323, AMERICAN STANDARD #1674, #1675 OR HANSGROHE #06909003 SHOWER VALVE, SOAP DISH, GLIDE BAR/HAND SHOWER, CURTAIN AND ROD, DRAIN ASSEMBLY AND ADA COMPILIANT THRESHOLD									ELKHORN ENGINEERS, PA. 2950 E. Magic View Dr., Ste. 190 Meridian, Idaho 83642

ASSEMBLY, AND ADA COMPLIANT THRESHOLD.

SLOAN ROYAL

SMITH, WADE, ZURN

WATTS, WILKENS, FEBCO

HAWS, BRADLEY, GUARDIAN

PPP, SIOUX CHIEF, SMITH STATE, A.O. SMITH, BRADFORD WHITE

CHURCH, OLSONITE, BEMIS SMITH, WATTS, ZURN, WADE, JOSAM

KOHLER, AMERICAN STANDARD

HALSEY TAYLOR, OASIS, ELKAY, HAWS, SUN ROC
ELKAY, JUST, DAYTON
FIAT, BRADLEY, ACORN
T & S, CHICAGO, DELTA HDF, ELKAY, JUST, KOHLER, ZURN
CHICAGO, SLOAN, DELANY, BRADLEY, ZURN
POWERS, LEONARD, SYMMONS
SLOAN ROYAL

MANUFACTURER'S APPROVED FOR SUBMITTAL OF COMPARABLE PRODUCTS



2950 E. Magic View Dr., Ste. 190 Meridian, Idaho 83642 phone: (208) 955-0555 fax: (208) 955-0999

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PLUMBING SCHEDULES

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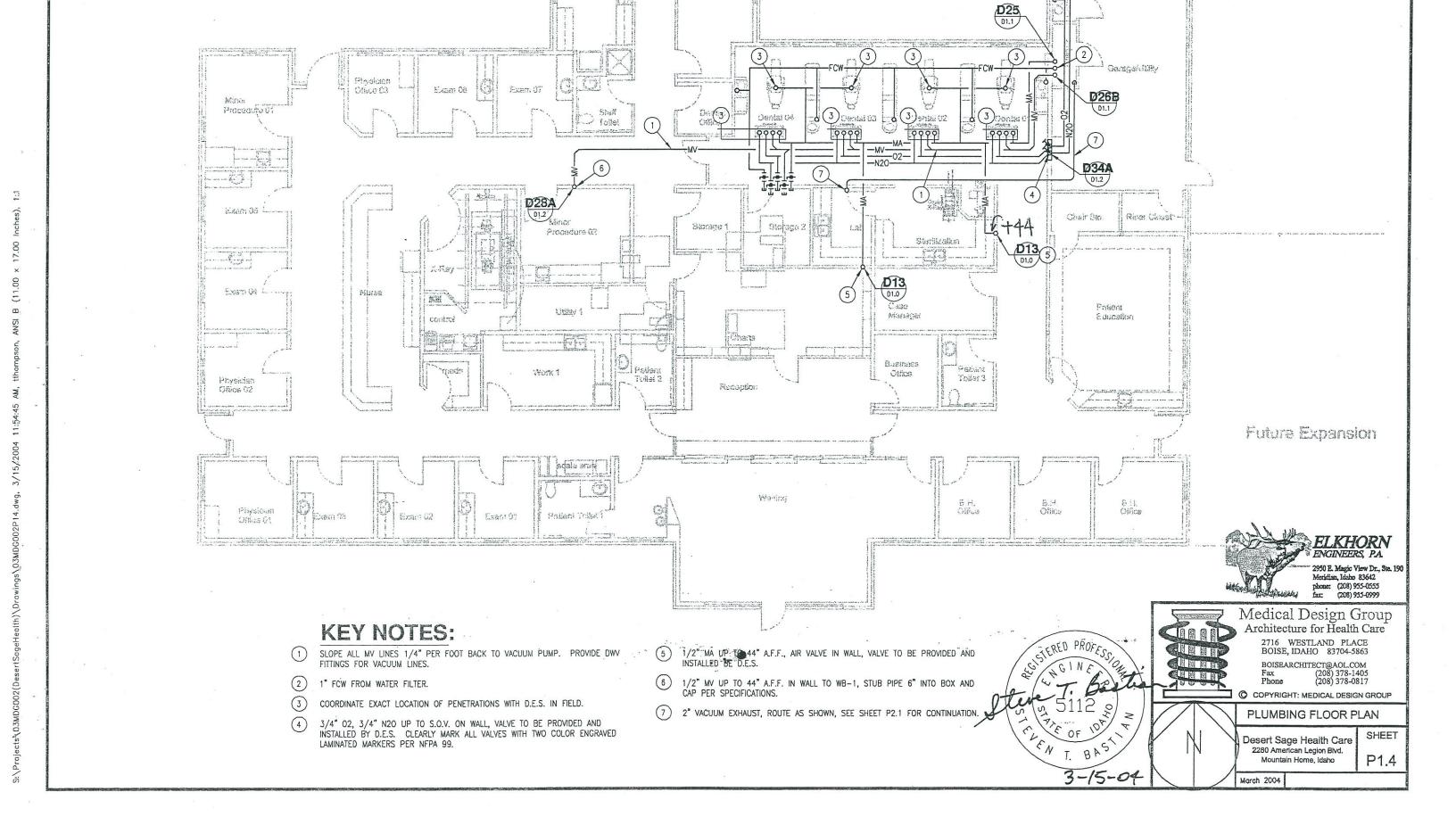
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Administration

Break Room

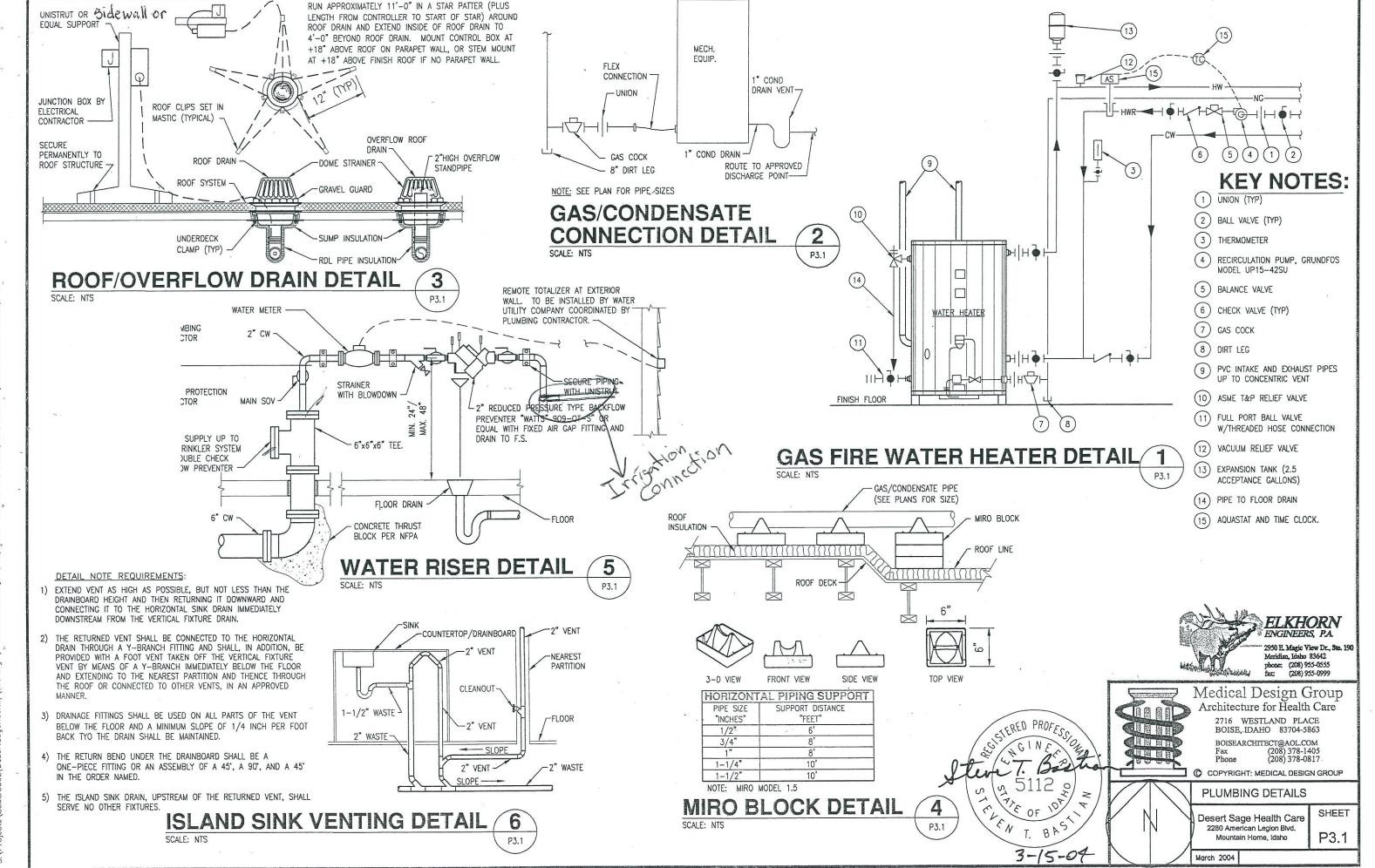


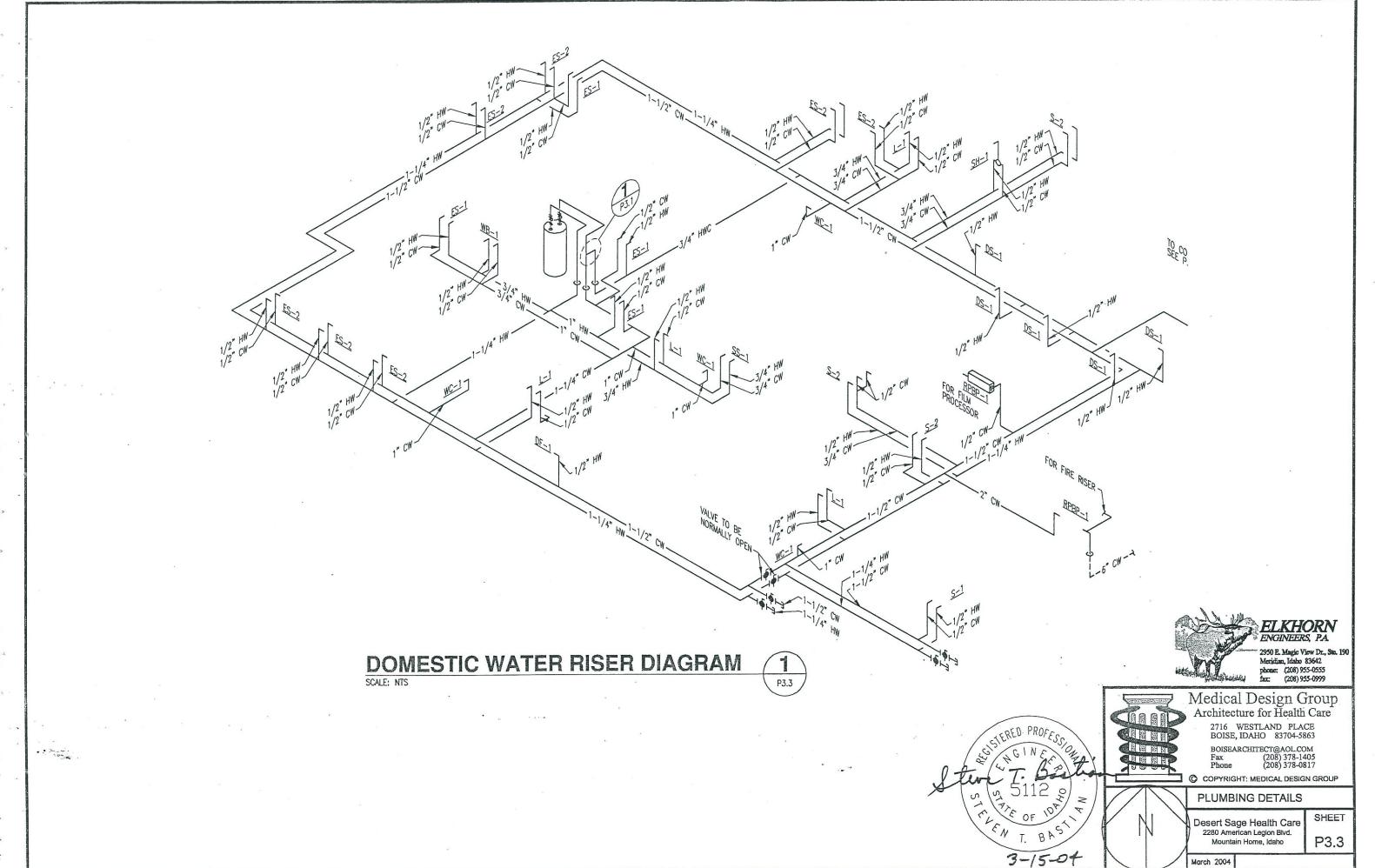
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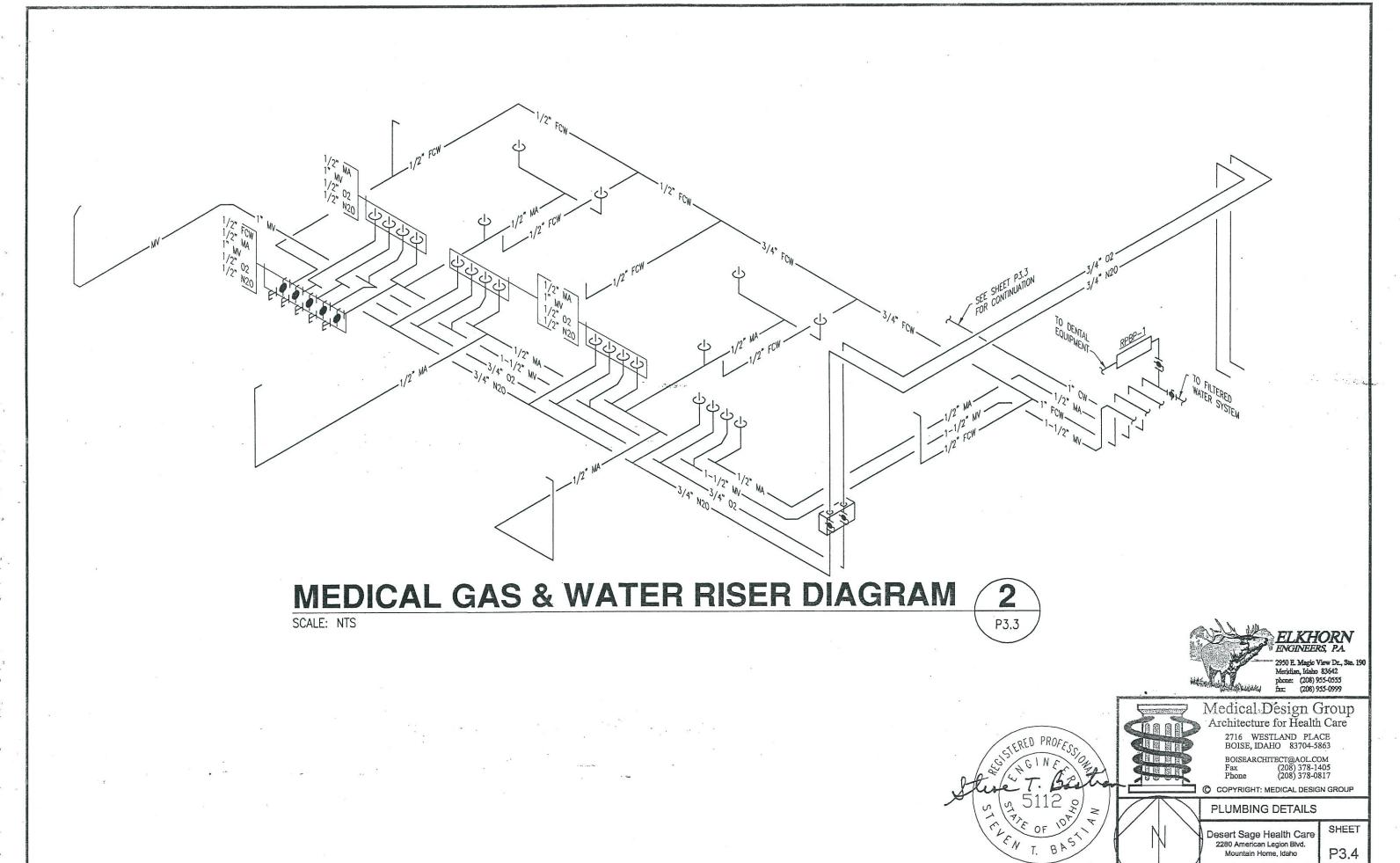
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Break Room

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Section :	1: Project In	formation	Desen Sage Health Care				
Designer/C	ontractor:		Descri Dago II canti Caro				
Telephone: Document		•	Tyler Thompson				
	2: General I ocation (for wea			Mountain Home, Idaho			
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	gree Days (base			6176 741			
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Section 3	3: Mechanic	al Systems List					
Quantity	System	Type & Description					
4		 Heating: Unit Heater, Elect Heating: Central Furnace, G 		Init, Capacity >=90 - <135 kBtu/h, A	ir-Cooled Condenser / Single	e Zone	
2	RTU-1	,4: Heating: Central Furnace,	Gas / Cooling: Rooftop Package	Unit, Capacity >=65 - <90 kBtu/h,	Air-Cooled Condenser / Sing		v
1		: Heating: Central Furnace, G Service Water Heater w/ Circ		Init, Capacity <65 kBtu/h, Air-Coole	d Condenser / Single Zone		
	W11-1.	bervice water froater w/ One	and the same	*			
	4: Requirem	ents Checklist					
Bldg. Dept.	1						
Use							
		ments Specific To: EWH-1 ments Specific To: RTU-3					
[]	1. N	lewly purchased heating equip	ment meets the heating efficiency				
[] r i		lewly purchased cooling equip ntegrated air economizer is inc	ment meets the cooling efficienc inded	y requirements			
	Require	ments Specific To: RTU-1,4					
[]			ment meets the heating efficiency ment meets the cooling efficienc				
LJ		ments Specific To: RTU-2	ment meets the cooming enterene	y requirementa		(4)	
[]			ment meets the heating efficiency				
l J		ments Specific To: WH-1	ment meets the cooling efficienc	y requirements			
[]		in. pipe insulation on circulati					
[]		automatic on/off control requir Requirements: Must be met	by all systems to which the req	uirement is applicable			
[]	1. L	oad calculations per 1997 ASI	IR AE Fundamentals				
[]			pacity no greater than needed to r nt automatically off when primar				
	1 .	 Exception: Multiple units cor 	ntrolled to sequence operation as		8.€		
[]		finimum one temperature cont finimum one humidity control	rol device per system device per installed humidificati	on/dehumidification system			
[]	5. T	hermostatic controls has 5 deg	. F deadband				
1 1			iring manual changeover betwee: 55 deg. F (heat) and 85 deg. F (o				
	2	-hour occupant override, 10-ho	our backup				
		 Exception: Continuously ope Exception: 2 kW demand or 					
[]	7. A	automatic shut-off dampers on	exhaust systems and supply syst				
[]	8. C	Autside-air source for ventilation. 1-5 supply and return air duct in	n; system capable of reducing O nsulation in unconditioned space	SA to required minimum			
	R	-8 supply and return air duct is	nsulation outside the building				
		-8 insulation between ducts ar - Exception: Ducts located wit		ts are part of a building assembly			
. ,	j .	 Exception: Ducts with interior 	or and exterior temperature differ				
[]		nicts seated - tongitudinal sean IL 181A or 181B tapes and ma	ns on rigid ducts; transverse seam stics	ns on all ducts;			
[]	11. N	(echanical fasteners and sealar	ats used to connect ducts and air				
LI	12. H	hilled water/refrigerant/brine j	for pipes <=1.5 in. and 2 in. for pipe insulation: 1 in. for pipes <=	pipes > 1.5 in. = 1.5 in. and 1.5 in. for pipes > 1.5 in.			
	l S	team pipe insulation: 1.5 in. fe	or pipes <=1.5 in. and 3 in. for pi				
		 Exception: Piping within HV Exception: Fluid temperature 					
	j .	- Exception: Fluid not heated of	or cooled			2)	
1		 Exception: Runouts <4 ft in l peration and maintenance man 	ength mal provided to building owner			50	
įį	14. B	alancing devices provided in a	accordance with IMC 603.15				(4)
l J			heating equipment meets the effi ols: 110 deg. F for dwelling units				
		or other occupancies				20 00	- 6
·		04.4		13			
		ce Statement esign represented in this docum	ment is consistent with the buildi	ng plans, specifications and other cal	culations submitted with thi	s permit application. T	The proposed med
			rements in COM check-En Versi				
5/0	ve P	astian	.17	en T. Bas	lea-	2-12	5-04
			35				-

2000 ECC COMcheck-EZ Software Version 2.4 Release 2 Requirements Specific To: EWH-1 Requirements Specific To: RTU-3 equipment efficiency. and mechanical cooling

Mechanical Requirements Description

Data filename: S:\Projects\03MDG002(DesertSageHealth)\Documents\Calculations\01-15-04-COM.cck

The following list provides more detailed description of the requirements in Section 4 of the Mechancal Compliance Certificate.

The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for

The specified cooling equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for

An integrated air economizer is required for individual cooling systems over 90 kBtu/h or 3,000 cfm in the selected climate. An integrated economizer allows simultaneous operation of outdoor-air

The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.

The specified cooling equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.

ients Specific To: RTU-2

The specified heating equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for

The specified cooling equipment is covered by Federal minimum efficiency requirements. New equipment of this type can be assumed to meet or exceed ASHRAE 90.1 Code requirements for equipment efficiency.

irements Specific To: WH-1

Piping for the specified circulating service hot water system must be insulated with a minimum of 1-in. insulation having a conductivity no >0.28 Btn in/(h ft2 °F).

Circulating service hot water systems must have a time switch control that can automatically turn off the system during unoccupied hours Generic Requirements: Must be met by all systems to which the requirement is applicable

Design heating and cooling loads for the building must be determined using procedures equivalent to those in Chapters 27 and 28 of the ASHRAE Handbook of Fundamentals or an approved equivalent calculation procedure.

All equipment and systems must be sized to be no greater than needed to meet calculated loads. A single piece of equipment providing both heating and cooling must satisfy this provision for one function with the capacity for the other function as small as possible, within available equipment options.

- Exception: The equipment and/or system capacity may be greater than calculated loads for standby purposes. Standby equipment must be automatically controlled to be off when the primary equipment and/or system is operating.

- Exception: Multiple units of the same equipment type whose combined capacities exceed the calculated load are allowed if they are provided with controls to sequence operation of the units as the load increases or decreases.

Each heating or cooling system serving a single zone must have its own temperature control device.

Each humidification system must have its own humidity control device.

The most are controlling both heating and cooling must be capable of maintaining a 5 degree F deadband (a range of temperature where no heating or cooling is provided).

- Exception: Deadband capability is not required if the thermostat does not have automatic changeover capability between heating and cooling.

The system or zone control must be a programmable thermostat or other automatic control meeting the following criteria:a) capable of setting back temperature to 55 degree F during heating and setting up to 85 degree F during coolingb) capable of automatically setting back or shutting down systems during unoccupied hours using 7 different day schedulesc) have an accessible 2-hour occupant overrided) have a battery back-up capable of maintaining programmed settings for at least 10 hours without power.

Exception: A setback or shutoff control is not required on thermostats that control systems serving areas that operate continuously
 Exception: A setback or shutoff control is not required on systems with total energy demand of 2 kW (6,826 Btm/h) or less.

Outdoor-air supply systems with design airflow rates >3,000 cfm of outdoor air and all exhaust systems must have dampers that are automatically closed while the equipment is not operating. The system must supply outside ventilation air as required by Chapter 4 of the International Mechanical Code. If the ventilation system is designed to supply outdoor-air quantities exceeding

minimum required levels, the system must be capable of reducing outdoor-air flow to the minimum required levels.

Air ducts must be insulated to the following levels:a) Supply and return air ducts for conditioned air located in unconditioned spaces (spaces neither heated nor cooled) must be insulated with a minimum of R-5. Unconditioned spaces include attics, crawl spaces, unheated basements, and unheated garages.b) Supply and return air ducts and plentums must be insulated to a minimum of R-8 when located outside the building.c) When ducts are located within exterior components (e.g., floors or roofs), minimum R-8 insulation is required only between the duct and the building exterior. - Exception: Duct insulation is not required on ducts located within equipment.

Exception: Duct instulation is not required when the design temperature difference between the interior and exterior of the duct or plenum does not exceed 15 degree F.

All joints, longitudinal and transverse seams, and connections in ductwork must be securely sealed using weldments; mechanical fasteners with seals, gaskets, or mastics; mesh and mastic sealing systems; or tapes. Tapes and mastics must be listed and labeled in accordance with UL 181A or UL 181B.

Mechanical fasteners and seals, mastics, or easkets must be used when connecting ducts to fans and other air distribution equipment, including multiple-zone terminal units.

All pipes serving space-conditioning systems must be insulated as follows:

Hot water piping for heating systems:

l in for pipes <=1 1/2-in nominal diameter

2 in, for pipes >1 1/2-in, nominal diameter.

Chilled water, refrigerant, and brine piping systems:

1 in insulation for pipes <=1 1/2-in, nominal diameter

1 1/2 in. insulation for pipes >1 1/2-in. nominal diameter

Steam piping: 1 1/2 in. insulation for pipes <=1 1/2-in. nominal diameter

3 in insulation for pipes >1 1/2-in nominal diameter.

- Exception: Pipe insulation is not required for factory-installed piping within HVAC equipment.

- Exception: Pipe insulation is not required for piping that conveys fluids having a design operating temperature range between 55 degrees F and 105 degrees F.

- Exception: Pipe insulation is not required for piping that conveys fluids that have not been heated or cooled through the use of fossil fuels or electric power.

- Exception: Pipe insulation is not required for rumout piping not exceeding 4 ft in length and I in in diameter between the control valve and HVAC coil.

Operation and maintenance documentation must be provided to the owner that includes at least the following information:

a design operation and maintenance occumentation must be provided to the owner that includes at least the following information:

a design operation and maintenance manualsc) HVAC system control maintenance and calibration information, including wiring diagrams, schematics, and control sequence descriptions; desired or field-determined set points must be permanently recorded on control drawings, at control devices, or, for digital control systems, in programming commentsd) complete narrative of how each system is intended to operate.

Each supply air outlet or diffuser and each zone terminal device (such as VAV or mixing box) must have its own balancing device. Acceptable balancing devices include adjustable dampers located within the ductwork, terminal devices, and supply air diffusers. Service water heating equipment must meet minimum Federal efficiency requirements included in the National Appliance Energy Conservation Act and the Energy Policy Act of 1992, which meet

or exceed ASHRAE 90.1 Code. New service water heating equipment can be assumed to meet these requirements.

Water-heating equipment must be provided with controls that allow the user to set the water temperature to 110 °F for dwelling units and 90 °F for other occupancies. Controls must limit output temperatures of lavatories in public facility restrooms to 110 °F.

2000 IECC MECH. NOTES:

- 1) DUCTWORK TO BE SEALED WITH UNITED DUCT SEALER OR EQUAL DUCT TAPE IS NOT ACCEPTABLE.
- 2) EXTERIOR DUCTS TO BE INSULATED WITH R-8 MINIMUM INSULATION.
- 3) DUCTS IN UN TEMPERED SPACES WITH A TEMPERATURE DIFFERENCE GREATER THAN 40° F SHALL BE INSULATED WITH R-5 MINIMUM INSULATION.
- 4) INTERIOR DUCTS IN TEMPERED SPACES WITH A TEMPERATURE DIFFERENCE GREATER THAN 15'F BUT LESS THAN 40' F SHALL BE INSULATED WITH R-3.3 MINIMUM INSULATION.
- 5) DUCTS IN TEMPERED SPACES THAT SERVE THAT AREA OR DUCTS WITH A TEMPERATURE DIFFERENCE LESS THAN 15° F DO NOT REQUIRE INSULATION.
- 6) ALL THERMOSTATS TO BE ELECTRONIC SEVEN-DAY FULLY PROGRAMMABLE WITH ONE HOUR OVERRIDE SWITCH/BUTTON, AND SEVEN-DAY FULLY PROGRAMMABLE FAN

2000 IECC PLUMB.

NOTES:

1) DOMESTIC WATER TO BE INSULATED AS

DOMESTIC HOT AND COLD WATER-1-1/2" AND SMALLER-1/2" THICK 2" THRU 4"-1" THICK

2000 IECC MECH. **PIPING NOTES:**

1) MINIMUM PIPE INSULATION

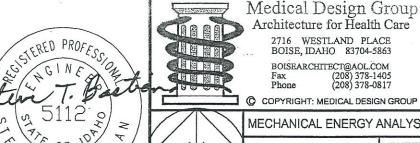
FLUID	NOMINAL	PIPE DIA.
	< 1.5"	> 1.5"
STEAM	1.5"	3.0"
HOT WATER	1.0"	2.0"
CHILLED WATER, BRINE OR REFRIGERANT	1.0"	1.5"

BASED ON INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H * FT2 * *F.



ELKHORN ENGINEERS PA

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3-15-09

MECHANICAL ENERGY ANALYSIS

2280 American Legion Blvd. Mountain Home, Idaho

March 2004

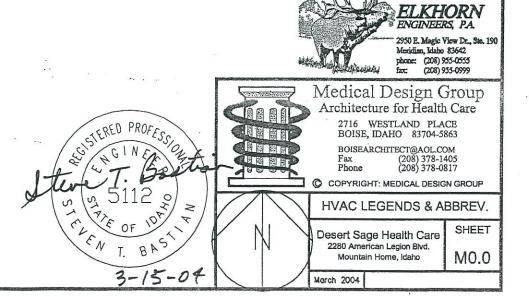
SHEET Desert Sage Health Care EN1.0

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL.	DESCRIPTION	
CAP (DOUBLE LINE)	DUCT CAP	(DOUBLE LINE)	VOLUME DAMPER	TAG NUMBER NECK/THROAT SIZE	GRILLES, REGISTERS, DIFFUSERS — CALLOUT	
24"x16" (DOUBLE LINE)	DUCT SIZES — FIRST DIMENSION LISTED IS VIEW DIMENSION	(SINGLE LINE)	AUTOMATIC MOTOR OPERATED DAMPER PARALLEL AND OPPOSED BLADE	SOO CEN (4 TYP) NUMBER OF DIFFUSERS CFN TO BALANCE TO		
L24"x18" (DOUBLE LINE)	INTERNALLY LINED DUCT — SEE MOTES OR SPECIFICATION FOR TYPE OF LINING TO BE USED. DIMENSIONS DENOTE INTERNAL FREE AREA.	(COUBLE INE)	BACKDRAFT DAMPER	SECTION/DETAIL NUMBER SECTION/DETAIL ADDITIONAL INFO	SECTION/DETAIL HEADING	
24"x16" (DOUBLE LINE)	DIRECTION OF AIRFLOW	(DOUBLE LINE)	CONTROL AR OR ZONE DAMPER	REFERENCED SHEET NUMBER SECTION NUMBER	SECTION CUT	
24'x16" (DOUBLE LINE) 8"# (SINGLE LINE)	DUCTNORK OR EQUIPMENT TO BE DEMOUSHED	(DOUBLE LINE)	DUCT MOUNTED SMOKE DETECTOR	REFERENCED SHEET NUMBER		
FOT (DOUBLE LINE) (SINGLE LINE)	ECCENTRIC TRANSITION - (FOT = FLAT ON TOP, FOB = FLAT ON BOTTOM)	(DOUBLE LINE)	ACCESS DOOR (AD) ACCESS PANEL (AP)	H (T)	HUMDISTAT, THERMOSTAT — CALLOUT REFERENCE DEVICE, SEE SCHEDULES, MOUNT ALL DEVICES PI ARCHITECTURAL CUIDLINES.	
FOB (DOUBLE LINE)	CONCENTRIC TRANSITION	(SINGLE LINE)	F = FIRE DAMPER S = SMOKE DAMPER F AND S = FIRE AND SMOKE DAMPER SEE NOTES AND/OR SPECIFICATION FOR DOACT RATING AND MODEL NUMBERS	AND EQUIPMENT TAG NAME	POWER OR GRANTY ROOF INTAKE/EXHAUST EQUIPMENT TAC STUBOL; SEE EQUIPMENT SCHEDI FOR THE CAPACITY, TYPE, AND QUANTITY.	
RISE (DOUBLE LINE)	RISE OR DROP ARROW IN THE DIRECTION OF AIRFLOW	(DOUBLE LINE) (SINGLE LINE)	TURNING VANES IN DUCTWORK	SEQUENTIAL EQUIPMENT NUMBER SEQUENTIAL EQUIPMENT NUMBER 4-NAY 3-WAY 2-WAY 2-WAY 2-WAY (CORNER) (OPPOSED THROW)	COLUNG SUPPLY DIFFUSERS, SOUID FILL REPRESENTS BLANKED OFF AREAS.	
***	SUPPLY DUCT (RISE)	ROUND (OURLE)			CEILING RETURN GROLLE	
	return duct (rise) Exhaust duct (rise)	TURN TURN UP DOWN → REFTANCE	TURN DOWN/UP FOR VARIOUS STYLES OF DUCTWORK		CELLING EXHAUST CRILLE	
	FLEX DUCT	TURN TURN TURN DOWN			SIDEWALL SUPPLY/RETURN REGISTER, DIFFUSER, CRILLE.	
24°x16" (DOUBLE LINE)	SPIN-IN FITTING SUPPLY	(DOUBLE LINE)		<u>†</u>	LINEAR SUPPLY / RETURN	
24'x16" (DOUBLE LINE)	SPIN-IN FITTING RETURN (SINGLE LINE)		45' ENTRY TRANSITION	® ©	PRESSURE SENSOR NIÓCATOR LIGHT	

					HVAC ABI	BRE	VIATIONS			1	
·		BRD	BOARD	EXP	EXPANSION	XW.	KILOWATT	p	PRESSURE	TA.	TRANSFER AIR
(E) (E)	DUSTING							PD	PRESSURE DROP OR DIFFERENCE	TD	TEMPERATURE DIFFEREN
F)	FUTURE	BRG	BEARING	EXT	EXTERIOR	KWH	KILDWATT HOUR	PH	PHASE(S)	TEMP	TEMPERATURE/TEMPERE
(א	NEW	BTU	BRITISH THERMAL UNIT	FA	FIRE ALARM	1	LINED	PLBG	PLUMBING	IEMP	TEMPORARY
D)	DEPTH			FAU	FURNACE AIR UNIT	LAT	LEAVING AIR TEMPERATURE	PLBG		700	
Ľ	LENGTH	CA	COMBUSTION AIR			LAV	LAVATORY	POC	POINT OF CONNECTION	TOD	TOP OF DUCT
K)	HTOIW	CAP	CAPACITY	FC	FORWARD CURVED			PSF	POUNDS PER SQUARE FOOT	TOS	TOP OF STEEL
,	AT	CB	CATCH BASIN	FC0	FLOOR CLEANOUT	LBS	POUNDS	PSI	POUNDS PER SQUARE INCH	TSP	TOTAL STATIC PRESSUR
	DIAMETER/PHASE	CB		FD	FLOOR DRAIN	LF	LINEAL FEET/FOOT	PVC	POLYVIMIL CHLORIDE	TV	TURNING VANE(S)
		CO	CONDENSATE DRAIN	FH	FIRE HYDRANT	LPG	LIQUEFIED PETROLEUM GAS			TYP	TYPICAL
	ANGLE	CF	CUBIC FEET	FIN	FINISH	LRA	LOCKED ROTOR AMP	RA	RETURN AIR	1110	III ACC
	NUMBER/POUND	CFCI	CONTRACTOR FURNISHED	FINS/IN	FINS PER INCH	L/S	LITERS PER SECONO	RAD	RADIUS	UBC	UNIFORM BUILDING COO
	DEGREE		CONTRACTOR INSTALLED	FLA	FULL LOAD AMPS	LWT	LEAVING WATER TEMPERATURE	RD	ROOF DRAIN	UFC	UNIFORM FIRE CODE
		CFF	CAP FOR FUTURE	FLASH	FI ASHING	1	Dillies with the Delicit	ROL	ROOF DRAIN LEADER		
8V	ABOVE	CFM	CUBIC FEET PER MINUTE	FLR	FLOOR(ING)	1				UL	UNDERWRITERS LABORAT
C	AIR CONDITIONING	CI	CAST IRON			l M	METER	RE:	REFERENCE	UMC	UNIFORM MECHANICAL C
CCU	AIR COOLED	CL	CENTER LINE	FOB	FLAT ON BOTTOM	MAT	MATERIAL.	REFL	REFLECTED	UNFIN	UNFINISHED
	CONDENSING UNIT	CLG	CELING	FOT	FLAT ON TOP	MAX	MAXIMUM	REL	RELOCATE	UNO	UNLESS NOTED OTHERW
COUST	ACOUSTICAL	CLR	CLEAR	FPM	FEET PER MINUTE	MECH	MECHANICAL	REM	REMOVE	UPC	UNIFORM PLUMBING CO
CP	ACOUSTICAL PANEL	CNT	CENTER	FRPF	FIREPROOF	MEZZ	MEZZANINE	REINF	REINFORCE	U	URINAL
				FT	FEET/FOOT	MEZZ	MANUFACTURER	REOD	REQUIRED	8	
CT	ACOUSTICAL TILE	CO	CLEAN OUT	FURR	FURRING			RET	RETURN	l v	VOLT
۵	AIR DROP	COL	COLUMN	1 Una	7 4.444.10	MIN	MINIMUM	RF	RECIRCULATION FAN	VAC	VACUUM
N	ADJUSTABLE	CONC	CONCRETE	CA.	GAUGE OR GAGE	MISC	MISCELLANEOUS	RG	RETURN GRILLE	VAV	VARIABLE AIR VOLUME
F	AIR FOIL	COND	CONDENSATE	GALY	GALYANIZED	MM	MILLIMETER				
FC	ABOVE FINISHED CEILING	CONN	CONNECTION	œ	GENERAL CONTRACTOR	MO	MOTOR OPERATED	RH	RELATIVE HUMIDITY	VD	VOLUME DAMPER
FF	ABOVE FINISH FLOOR	CONST .	CONSTRUCTION	GE	GENERAL EXHAUST	MOCE	MAX OVERLOAD	RPM .	REVOLUTIONS PER MINUTE	VEL.	VELOCITY
FG	ABOVE FINISH GRADE	CONT	CONTINUOUS/CONTINUATION		GROUND CENTROSI		CURRENT PROTECTION	RTU	ROOFTOP UNIT	VENT	VENTILATION
F5	ABOVE FINISH SLAB	CONTR	CONTRACTOR	GND	GROUND	MTD	MOUNTED			VERT	VERTICAL
		CTC	CENTER TO CENTER	CCM	CALYANIZED SHEET METAL	MIG	MOUNTING	S	SOUTH	VFD	VARIABLE FREDUENCY D
FUE	AMERICAN FUEL			HCP	HANDICAP			SA	SUPPLY AIR	VOL	VOLUME
	UTILIZATION EFFICIENCY	CV	VALVE COEFFICIENT			MIL	METAL.	SCHED	SCHEDULE	VIR	VENT THRU ROOF
HU	AIR HANDUNG UNIT			HO	HEAD	MUA	MAKE-UP AR/	50 -	SUPPLY DIFFUSER	WT	VARIABLE VOLUME TERM
LT	ALTERNATE	DB	DECIBEL	HOWR	HARDWARE	1	MAKE-UP AIR UNIT			771	TANADLE TOWNE TOWN
LUM	ALUMINUM	DBL	DOUBLE	HORIZ	HORIZONTAL			SECT	SECTION		
MB	AMBIENT	DB	DRY BULB TEMPERATURE	HP	HORSEPOWER	N	NORTH	SEER	SEASONAL ENGINEERING	₩.	WEST
NP	AMPERES	DEPT	DEPARTMENT	HR	HOUR	N/A	NOT APPLICABLE		EFFICIENCY RATING	W/	WITH
DOK	ANCOIZED	DET	DETAIL	HT	HEIGHT	NC	NORMALLY CLOSED	SEN	SENSIBLE	W/0	WITHOUT
NSI	AMERICAN NATIONAL	DIM	DIMENSION	HTG	HEATING	NEC	NATIONAL ELECTRIC CODE	SER	SERIES	WB	WET BULB TEMPERATURE
nui.	STANDARDS INSTITUTE	DISCH	DISCHARGE	H20	WATER	NEPA	NATIONAL FIRE	SF	SQUARE FDOT	WC	WATER CLOSET
P	AR PRESSURE		DOWN	HYAC	HEATING, VENTILATING, AND		PROTECTION ASSOCIATION	SH	SENSIBLE HEAT	WP	WATERPROOF
PD	AIR PRESSURE DROP	DH			AIR CONDITIONING	NG	NATURAL CAS	SM	SINILAR	WPD	WATER PRESSURE DROP
		DS	DOWNSPOUT		AN CONVINCINO	NC	NOT IN CONTRACT	SI	SUPPLY LOUVER	WI	WEIGHT
PPROX	APPROXIMATE	DSP	DRY STANOPIPE					SHACHA	SHEET METAL AND		
RCH	ARCHITECTURAL	DWG	DRAWING	IBC	INTERNATIONAL BUILDING	NO	NORMALLY OPEN	SWYW		ZD	ZONE DAMPER
SHRAE	AMERICAN SOCIETY				CODE	NOM	NOMINAL		AIR CONDITIONING	20	LUNC UPWITCH
	OF HEATING -	Ε	EAST	ID D	INSIDE DIAMETER	NTS	NOT TO SCALE		CONTRACTORS NATIONAL		
	REFRIGERATION, AND AIR	ĒA	EACH	IDW	INDIRECT WASTE	NUM	NUMBER		ASSOCIATION		
	CONDITIONING ENGINEERS	EAT	ENTERING AIR TEMPERATURE	IE.	INVERT ELEVATION			SOV	SHUT OFF VALVE		
STM	AMERICAN SOCIETY OF	EF	EXHAUST FAN	iCV	INLET CUIDE YANE(S)	1 000	ADDACES DUDE BUILDES	SP	STATIC PRESSURE		
J.A	TESTING MATERIALS	EFF	EFFICIENCY	IMC	INTERNATIONAL MECHANICAL	0B0	OPPOSED BLADE DAMPER	SPEC	SPECIFICATION		
	AUTOMATIC		EXHAUST GRILLE		CODE	OC	ON CENTER	SO	SOLIARE		
OTU		EC		DI		00	OUTSIDE DIAMETER	SS	SANITARY SEWER		
UX	AUXILIARY	ELECT	ELECTRICAL .		INCH	OFCI	OWNER FURNISHED,				
-		EFEA	ELEVATION	INO	INDIRECT	1	CONTRACTOR INSTALLED	221	STAINLESS STEEL		
00	BACK DRAFT DAMPER	EMERG	EMERGENCY	INSUL	INSULATION	OFOI	OWNER FURNISHED.	STD	STANDARD		
F	BELOW FINISH FLOOR	ENCL	ENCLOSED/ENCLOSURE	INT	INTERIOR	1 21 20	OWNER INSTALLED	STL	STEEL		
S	BELOW FINISH SLAB	ENT	ENTERING	IPC	INTERNATIONAL PLUMBING	1 ~	OVERHEAD	STRUCT	STRUCTURAL		200
ĭ	BELOW GRADE	EQ	EDUAL.		CODE	OH		SUP	SUPPLY		
IP.	BRAKE HORSEPOWER	EQUIP	FOUIPMENT		1990	OSA	OUTSIDE AIR	SUSP	SUSPENDED		
	BACKWARD INCLINED	CUUR		J-80x	JUNCTION BOX	OZ	OUNCE	SYS	SYSTEM		
		ESP	EXTERNAL STATIC PRESSURE	JST	JOST			313	JIJILM		
_DG	BUILDING	EWT	ENTERING WATER TEMPERATURE	431	wo.	1	34				
OC	BOTTOM OF DUCT	EXH	EXHAUST	1		1	2				
S	BOTTOM OF STEEL	EXIST	EXISTING	1		1	9				

HVAC DRAWINGS GENERAL NOTES:

- 1) THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS IN THIS SET AND SHOULD BE TREATED AS IF THEY ARE REFERENCED TO THE ENTIRE SET.
- 2) THE CONTRACTOR IS TO PROVIDE A FULLY OPERATIONAL HVAC HEATING AND COOLING SYSTEM. THE CONTRACTOR IS TO INSTALL ALL OF THE PIPING, DUCTWORK, ACCESSORIES, AND EQUIPMENT PER THE 2000 IPC, IMC, IBC, NFPA 99 (FOR MED. GAS), AND THE AHJ (AUTHORITY HAVING JURISDICTION). NOTHING IN THESE PLANS IS TO BE INTERPRETED AS TO ALLOW THE CONTRACTOR TO PROVIDE INSTALLATIONS THAT ARE NOT PER CODE OR THE AHJ.
- 3) NO ACTUAL WOOD TRUSS SHAPES ARE KNOWN AT THIS TIME. THE TRUSSES ARE TO BE BID AND DESIGNED WITH THE PROJECT. THE CONTRACTOR IS WARNED THAT THE LAYOUTS HERE ARE INTENDED TO BE DIAGRAMMATIC ONLY. THE CONTRACTOR WILL PROVIDE ALL FITTINGS AND EXTRA DUCTING REQUIRED TO COORDINATE WITH ALL OTHER TRADES AND THE STRUCTURE.
- 4) ALL DESIGN PRODUCT DATA IS FOR THE ITEM LISTED ONLY. SUBMITTAL DEVIATIONS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REVIEW BY THE ARCHITECT OR ENGINEER DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES FOR THE PRODUCT TO PERFORM OR PHYSICALLY FIT FOR THE APPLICATION AS INDICATED IN THESE DRAWINGS. ALL COORDINATION FOR THE NEW PRODUCT WITH THE OTHER TRADES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO, PHYSICAL DIMENSIONS, WEIGHTS, ELECTRICAL CHARACTERISTICS, ETC. NO ADDITIONAL COSTS TO THE OWNER WILL BE ALLOWED DUE TO SUBSTITUTIONS.
- 5) LAYOUTS, ROUTING AND COORDINATION MUST BE DONE PRIOR TO FABRICATION OR INSTALLATION OF ANY DUCTWORK. THE CONTRACTOR SHALL BE ADVISED THAT THE OWNER WILL NOT PAY TO REMOVE DUCTWORK THAT WAS INSTALLED AND FOUND TO BE IN CONFLICT WITH THE STRUCTURE OR ANOTHER TRADE.
- 6) CONTRACTOR TO VERIFY ALL GRILLES REGISTERS AND DIFFUSER FRAMES PRIOR TO ORDERING. CONTRACTOR SHALL VERIFY DIFFUSER LOCATIONS PRIOR TO INSTALLATION OF THE DIFFUSERS. ALL LIGHTING AND STRUCTURE NEEDS TO BE TAKEN INTO ACCOUNT.FOR EXACT DIFFUSER LOCATION SEE ARCHITECTS REFLECTED CEILING PLAN. COORDINATE WITH ELECTRICAL AND STRUCTURAL FOR FINAL DIFFUSER LOCATION.
- 7) PROVIDE ACCESS DOORS FOR ALL EQUIPMENT LOCATED IN CEILINGS, WALLS, OR FLOORS, IF HIDDEN OR INACCESSIBLE. ALL FIRE DAMPERS SHALL BE SUPPLIED WITH ACCESS DOORS IN THE DUCT IN ORDER TO RESET DAMPER. ACCESS DOORS TO BE LOCATED IN MOST THE MOST ACCESSIBLE LOCATION, AND PRIOR APPROVED BY THE ARCHITECT BEFORE INSTALLATION. ACCESS DOORS TO BE LARGEST SIZE POSSIBLE FOR THE GIVEN DUCT SIZE. MAXIMUM ACCESS DOOR SIZE TO BE 12"X12".
- 8) CONTRACTOR MAY SUBSTITUTE EQUIVALENT ROUND OR RECTANGULAR SIZES FOR ALL LOW PRESSURE DUCTWORK. CONSULT S.M.A.C.N.A. CHARTS FOR EQUIVALENT SIZING CRITERIA.
- (9) INSTALL ALL COMPONENTS TO MEET MANUFACTURERS INSTALLATION
 MANUALS, LOCAL STATE AND AHJ CODES, OR-AS DEPICTED IN THESE DOCUMENTS. WHICH EVER IS MOST STRINGENT.
- 10) CONTRACTOR SHALL SUPPLY DRAWING FOR APPROVAL TO OWNER/ARCHITECT SHOWING ALL PROPOSED THERMOSTAT LOCATIONS.
 ARCHITECT/OWNER SIGNATURE MUST BE OBTAINED PRIOR TO ANY THERMOSTAT WIRING, CONDUIT, OR INSTALLATION OF
 THERMOSTATS. FAILURE TO DO SO MAY RESULT IN MOVING THERMOSTATS AT CONTRACTORS LOSS.
- 11) PRINTS MUST BE REVIEWED FOR ACCURACY BEFORE STARTING THE JOB. ABSOLUTE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS CANNOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATIONS OF EQUIPMENT & DUCTWORK, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. CHECK ALL INFORMATION AND REPORT ANY DISCREPANCIES BEFORE SUBMITTING BID OR FABRICATING AND INSTALLING WORK.
- 12) INSTALL ALL SHEET METAL IN ACCORDANCE WITH LATEST ASHRAE AND SMACNA RECOMMENDATIONS. PROVIDE VARIATIONS IN DUCT SIZE AND ADDITIONAL DUCT FITTINGS AS REQUIRED TO CLEAR OBSTRUCTIONS AND MAINTAIN CLEARANCES.



INDUSTRY STANDARD

- ALL EQUIPMENT AND MATERIALS FURNISHED & INSTALLED UNDER THIS SECTION A. SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - SHEET METAL DUCTWORK: ALL SHEET METAL DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH THE STANDARDS ESTABLISHED BY THE AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS (ASHRAE) AND THE SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION (SMACNA) AND MEET THE MINIMUM REQUIREMENTS OF NFPA 90
 - 2. FIRE DAMPERS AND EXPLOSION PROOF EQUIPMENT: ALL FIRE DAMPERS AND EXPLOSION PROOF EQUIPMENT SHALL HAVE AN UNDERWRITERS' LABORATORIES, INC. (UL) APPROVED LABEL
 - FILTER MEDIA: FILTER MEDIA SHALL AS A MINIMUM REQUIREMENT BE RATED CLASS 2 BY UNDERWRITERS' LABORATORIES, INC.
 - DUCT INSULATION: DUCT INSULATION SHALL COMPLY WITH REQUIREMENTS OF NFPA-90A
 - FLEXIBLE DUCTWORK: FLEXIBLE DUCTWORK SHALL COMPLY WITH REQUIREMENTS OF NFPA-90A

SCOPE OF WORK

- FURNISH AND INSTALL ALL AIR DISTRIBUTION EQUIPMENT AND ASSOCIATED ACCESSORIES AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALSO PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED THAT IS NECESSARY TO PROVIDE A COMPLETE SYSTEM.
- PLACE ALL SLEEVES, HANGERS, SUPPORTS AND OPENINGS FOR WORK UNDER THIS SECTION. FLASH ALL WALL PENETRATIONS FOR WORK PERFORMED IN THIS SECTION. COORDINATE ALL ROOF PENETRATIONS WITH ROOFING CONTRACTOR.
- PROVIDE CARPENTRY, MASONRY, CONCRETE AND METAL WORK REQUIRED FOR WORK OF THIS SECTION, EXCEPT WHERE SPECIFICALLY CALLED FOR UNDER OTHER
- COORDINATE WITH WORK PERFORMED UNDER OTHER DIVISIONS, COORDINATE WORK DONE TO ACCOMMODATE REQUIREMENTS OF THIS DIVISION TO ENSURE ADEQUACY OF SPACE AND PROPER LOCATION.
- PROVIDE CUTTING AND PATCHING AS REQUIRED FOR EXECUTION OF WORK PERFORMED UNDER THIS SECTION. NORMAL FRAMING AND BLOCKING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR FOR WORK TO BE COMPLETED UNDER THIS DIVISION.
- DAMAGE THAT OCCURS DUE TO WORK OF THIS DIVISION CAUSED BY LEAKS, BREAKS, DISCHARGE OF NORMAL WORK OF CONTRACT, INADVERTENT ACTS, ETC., ARE THE RESPONSIBILITY OF THIS CONTRACTOR. DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPAIRED OR REPLACED WITH LIKE MATERIAL TO THE SATISFACTION OF THE OWNER AND/OR OWNER'S REPRESENTATIVE. REPAIRS OR REPLACEMENT WORK SHALL BE DONE BY CRAFTSMEN SKILLED IN THE TRADE OF THE WORK INVOLVED AND SHALL BE APPROVED BY THE OWNER AND/OR OWNER'S REPRESENTATIVE.

PROTECTION, STORAGE, AND DELIVERY

- PROVIDE NECESSARY STORAGE AREAS AT THE SITE FOR SAFE STORAGE OF MATERIALS. PROVIDE SHOP AREA ELSEWHERE ON SITE THAT DOES NOT INTERFERE WITH WORK, FOR SAFE OPERATION OF TOOLS. REMOVE THESE FACILITIES AND RESTORE AREA(S) TO ORIGINAL CONDITION AT COMPLETION OF PROJECT.
- PROTECT EQUIPMENT AND MATERIALS FROM PHYSICAL DAMAGE, CONSTRUCTION DIRT AND THE ELEMENTS FROM THE TIME THEY ARE SHIPPED BY THE MANUFACTURER TO THE TIME THE BUILDING IS ACCEPTED BY THE OWNER.
- ARRANGE DELIVERY OF PRODUCTS IN TIMELY FASHION TO COORDINATE WITH WORK
- DELIVER PRODUCTS IN THE MANUFACTURER'S ORIGINAL PACKAGING WITH IDENTIFYING LABELS INTACT AND LEGIBLE. LEGIBLY IDENTIFY UNITS OR ITEMS AS TO INSTALLATION LOCATION AND/OR DRAWING DESIGNATIONS TO PERMIT CHECK BY OWNER'S REPRESENTATIVE AGAINST APPROVED MATERIAL LIST AND SHOP DRAWINGS.

- IMMEDIATELY UPON DELIVERY INSPECT SHIPMENT(S), INCLUDING OWNER FURNISHED ITEMS, TO ASSURE THAT PRODUCTS ARE UNDAMAGED AND IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS. SHOULD THE PRODUCT BE DAMAGED OR NOT IN COMPLIANCE WITH REQUIREMENTS, IMMEDIATELY REPAIR AS DIRECTED OR APPROVED OR ORDER REPLACEMENT AT NO INCREASE IN CONTRACT SUM.
- REPLACE LOST OR DAMAGED MATERIALS AND EQUIPMENT AT NO INCREASE IN
- PROTECT NEW AND EXISTING BUILDING STRUCTURES AND ADJACENT FINISHED SURFACES DURING CONSTRUCTION. PATCH, REPAIR AND REFINISH EXISTING FINISHED SURFACES DAMAGED BY WORK UNDER THIS DIVISION TO MATCH ADJACENT UNDISTURBED AREAS. PATCHING, REPAIR AND REFINISHING SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THE SECTIONS INVOLVED.

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SECURE AND PAY FEES FOR PERMITS, LICENSES, INSPECTIONS AND ROYALTIES REQUIRED FOR WORK OF THIS DIVISION.

REGULATIONS AND STANDARDS

- WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LATEST ADOPTED EDITION AND ALL AMENDMENTS OF THE FOLLOWING:
 - 1. 2000 INTERNATIONAL BUILDING CODE (IBC)
 - 2. 2000 INTERNATIONAL MECHANICAL CODE (IMC)
 - 2000 INTERNATIONAL PLUMBING CODE (UPC)
 - 2000 INTERNATIONAL FIRE CODE (IFC)
 - ANY OTHER APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, AND REGULATIONS.
 - SMACNA SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION
 - AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS (ASHRAF)
 - 8. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 - ASSOCIATED AIR BALANCE COUNCIL (AABC)
- DO NOT CONSTRUE ANYTHING IN THESE DRAWINGS AND SPECIFICATIONS TO PERMIT WORK NOT CONFORMING TO THESE REQUIREMENTS. THE REGULATIONS SHALL GOVERN WHERE THEY REQUIRE HIGHER STANDARDS OR ARE IN CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS, CONSIDER RULINGS AND INTERPRETATIONS OF THE ENFORCING AGENCIES AS PART OF THESE SPECIFICATIONS. COMPLY WITH THE DRAWINGS AND SPECIFICATIONS SHOWING WORK EXCEEDING MINIMUM CODE REQUIREMENTS.
- PROVIDE ALL WORK REQUIRED BY THE GOVERNING AUTHORITY, EVEN IF IT IS NOT INDICATED ON DRAWINGS OR IN THE SPECIFICATIONS. IF REQUIRED WORK IS NOT SHOWN, SUBMIT A CONSTRUCTION PRICE FOR PROVIDING THIS WORK FOR APPROVAL PRIOR TO PERFORMING ANY WORK

DRAWINGS AND SPECIFICATIONS

CONSIDER ALL DRAWINGS AND ALL DIVISIONS OF THESE SPECIFICATIONS AS A WHOLE AND PROVIDE WORK OF THIS SECTION AS SHOWN ANYWHERE THEREIN. PRINTS MUST BE REVIEWED FOR ACCURACY BEFORE STARTING THE JOB. ABSOLUTE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS CANNOT BE GUARANTEED, WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATIONS OF EQUIPMENT COVERED UNDER OTHER SECTIONS OR DIVISIONS OF THESE SPECIFICATIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. CHECK ALL INFORMATION AND REPORT ANY DISCREPANCIES BEFORE SUBMITTING BID OR FABRICATING AND INSTALLING WORK.

INSPECTION BY OWNER

A. WORK MAY BE INSPECTED AT ANY TIME BY THE OWNER OR HIS REPRESENTATIVE. WORK COVERED OR CONCEALED BEFORE BEING INSPECTED AND APPROVED SHALL BE OPENED AND UNCOVERED UPON REQUEST.

SUBMITTAL DATA

- SUBMIT FOR APPROVAL ALL ATTACHMENTS TO STRUCTURE, ARCHITECTURAL ACCESS PANELS, ALL FIXTURES AND PIECES OF EQUIPMENT TO BE INSTALLED ON THE JOB. SUBMITTALS SHALL INCLUDE DUCTWORK AND ACCESSORIES, INSULATION, FANS, AND MOTORS, PROVIDE FAN CURVES, OPERATING CHARACTERISTICS, CAPACITIES, ETC., FOR ALL EQUIPMENT. PROVIDE ALL REQUIRED SUBMITTAL DATA IN ONE COMPLETE SET. BOUND AND INDEXED BY CATEGORY, USE, ETC. CLEARLY IDENTIFY IN THE SUBMITTAL ALL CAPACITIES, OPTIONS, AND CRITERIA REQUIRED TO DETERMINE THE PERFORMANCE OF THE EQUIPMENT.
- B. PREPARE THREE (3 PLUS THE NUMBER REQUIRED FOR THE GENERAL CONTRACTORS USE) COPIES FOR ALL EQUIPMENT AND MATERIALS. SUBMIT TO ARCHITECT FOR REVIEW AND DISTRIBUTION.

WORKMANSHIP AND MATERIALS

EMPLOY ONLY EXPERIENCED, COMPETENT AND PROPERLY EQUIPPED PERSONNEL ON THE JOB. PROVIDE HIGH QUALITY WORKMANSHIP IN THE INSTALLATION OF EQUIPMENT AND MATERIALS. USE ONLY NEW MATERIALS IN PERFECT CONDITION EXCEPT THOSE SPECIFICALLY INDICATED TO BE RE-USED.

CLEANING 110

FLUSH PIPES AND DUCTS FREE FROM FOREIGN SUBSTANCES BEFORE INSTALLING VALVES. STOPS, OR MAKING FINAL CONNECTIONS, CLEAN ALL PIPING AND EQUIPMENT BEFORE INSTALLATION IS ACCEPTED BY THE OWNER. FURNISH AND INSTALL VALVED CONNECTIONS TO PIPING SYSTEMS TO FACILITATE CLEANING OTHER THAN FOR EQUIPMENT CONNECTIONS. SEE SPECIFIC CLEANING SPECIFICATIONS IN EACH SECTION.

OPERATING AND MAINTENANCE INSTRUCTIONS

PREPARE AND SUBMIT COMPLETE OPERATING MAINTENANCE MANUAL FOR EACH PIECE OF EQUIPMENT INSTALLED. PROVIDE WITH COMPLETE AND REVIEWED AND APPROVED BALANCE REPORT. PROVIDE MANUFACTURERS EQUIPMENT WARRANTIES IN THE O&M MANUAL. PROVIDE CONTRACTORS WARRANTY LETTER WITH THE NAMES AND PHONE NUMBERS IN THE O&M MANUAL

SITE CLEAN-UP 112

- AFTER ALL OTHER WORK HAS BEEN ACCOMPLISHED, CLEAN ALL EXPOSED, PIPING, DUCTWORK, FIXTURES, EQUIPMENT AND SUPPORTS OF CONSTRUCTION DUST, DIRT,
- LEAVE ALL AREAS INVOLVING MECHANICAL WORK IN A CLEAN CONDITION SATISFACTORY TO THE OWNER.





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PART 2 - PRODUCTS

SPECIFIC MANUFACTURER AND MODEL

- TRADE NAMES ARE USED TO ESTABLISH STANDARDS, EQUIVALENT PRODUCTS FROM OTHER MANUFACTURERS MAY BE SUBSTITUTED AFTER SUBMITTAL IS REVIEWED AND APPROVED BY THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL CHANGES DUE TO SUBSTITUTIONS OR ALTERNATES TO THE DESIGN DRAWINGS. AREAS OF COORDINATION CONCERN INCLUDE BUTNOT LIMITED TO; DIMENSIONS, STRUCTURAL IMPACTS, ELECTICAL CHARICTERISTICS, ETC... THIS CONTRACTOR WILL BE RESPONSIBLE FOR ANY INCREASE IN PROJECT COST OR IMPACT TO SHEDULE DUE TO THESE SUBSTITUTIONS.

UL LABEL 2.2

FURNISH 'UL' LABELED AND LISTED MATERIALS AND EQUIPMENT EXCEPT WHEN EQUIPMENT IS OF A TYPE FOR WHICH LABELING OR LISTING SERVICES ARE NOT

FINISHES AND PAINTING

- PROVIDE ALL EQUIPMENT WITH A FACTORY FINISH, TOUCH UP ANY CHIPS OR SCRAPES THAT MAY OCCUR DURING HANDLING AND INSTALLING.
- UNLESS ITEMS ARE FACTORY FINISHED, PROVIDE ONE PRIME COAT ON ALL PIPE, HANGER ASSEMBLIES, SUPPORTS, EQUIPMENT AND ACCESSORIES FURNISHED UNDER THIS DIVISION.

SHEET METAL DUCTWORK

- GENERAL: CONSTRUCT AND INSTALL ALL SHEET METAL DUCTWORK IN ACCORDANCE WITH THE LATEST UMC, ASHRAE AND SMACNA RECOMMENDATIONS, USING GALVANIZED SHEET METAL HAVING A ZINC COATING OF 0.90 OZ. PER SQ. FT. EACH SIDE PER ASTM-A525, G-90, UNLESS STATED OTHERWISE. ALL DUCT SHALL BE 24 GAUGE OR GREATER (1.0 LB / SQ. FT., 0.0239" NOMINAL THICKNESS).
 - 1. DUCT SIZE SHOWN ON LINED DUCT IS THE INSIDE DIMENSION.
 - THE THROAT RADIUS OF ALL BENDS SHALL BE 1-1/2 TIMES THE WIDTH OF THE DUCT WHEREVER POSSIBLE AND IN NO CASE SHALL THE THROAT RADIUS BE LESS THAN ONE WIDTH OF THE BRANCH DUCT. PROVIDE SQUARE ELBOWS WITH DOUBLE THICKNESS AIR FOIL TYPE TURNING VANES WHERE SPACE DOES NOT PERMIT THE ABOVE RADIUS, OR WHERE SQUARE ELBOWS ARE SHOWN. SPIN-IN FITTINGS SHALL HAVE DAMPERS OF 26-GAUGE THICKNESS WITH LOCKING QUADRANTS.
 - THE SLOPES OF TRANSITIONS SHALL BE NO GREATER THAN 30 DEGREES FOR ALL DUCT SYSTEMS.
 - PROVIDE SLIP DRIVE OR EQUIVALENT FLAT SEAMS FOR DUCTS EXPOSED IN THE CONDITIONED SPACE OR WHERE NECESSARY DUE TO SPACE LIMITATIONS, RUNOUTS TO GRILLES, REGISTERS OR DIFFUSERS ON EXPOSED DUCTWORK SHALL BE THE SAME SIZE AS THE OUTER PERIMETER OF THE CONNECTION FLANGE ON THE GRILLE, REGISTER OR
 - ALL ROUND DUCT WORK IN EXPOSED AREAS SHALL BE SPIRAL ROUND AND PAINTED PER ARCHITECTS DIRECTION AND COLOR REQUIREMENTS. PAINT ALL EXPOSED HANGERS AND SEISMIC RESTRAINTS.
 - INSTALL ADDITIONAL DUCT REINFORCEMENTS AND SEISMIC BRACING AS
- PROVIDE A ₹" DUCT TEST OPENING WITH CORK TO BE LOCATED WHERE AIR MEASUREMENTS ARE REQUIRED FOR BALANCING THE SYSTEM.

GRILLES AND DIFFUSERS:

- FURNISH ALL DIFFUSERS, REGISTERS AND GRILLES WITH A BAKED ON, NON-GLOSSY PRIME COAT
- GRILLES AND DIFFUSERS SHALL MATCH ALL QUALITIES OF THOSE SPECIFIED ON THE DRAWINGS INCLUDING APPEARANCE, THROW, NOISE LEVEL, ADJUSTABILITY, ETC. REFER TO GRILLE, REGISTER, AND DIFFUSER SCHEDULE FOR PROPER COLOR. COORDINATE AND APPROVE COLOR WITH ARCHITECT BEFORE INSTALLATION. MATCH FRAME TYPE WITH ACTUAL SURFACE. VERIFY SURFACE BEFORE PURCHASING

FLEXIBLE CONNECTIONS

FLEXIBLE CONNECTIONS SHALL BE PROVIDED ON ALL ROTATING OR VIBRATING EQUIPMENT AND AT THE INLET AND OUTLET OF EACH FAN AND WHERE SHOWN ON THE DRAWINGS. PROVIDE FLEXIBLE CONNECTIONS LISTED FOR EXTERIOR LOCATIONS IF EXPOSED TO WEATHER.

FILTERS

- A. FILTERS AND FRAMES IN THE AIR HANDLING UNITS ARE TO BE FURNISHED WITH THE UNIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE FILTER MEDIA CARTRIDGES SPECIFIED HEREIN AND INSTALL THE FILTER MEDIA FURNISHED WITH THE EQUIPMENT. PROVIDED CHANGE OF FILTERS IF UNITS ARE RUN DURING
- ALL REFERENCES TO EFFICIENCIES AND PERFORMANCE ARE BASED ON ASHRAE STANDARD 52-76. ALL FILTERS SHALL BE UL LISTED CLASS 2. ALL METAL SURFACES SHALL HAVE CORROSION RESISTANT COATINGS.

DUCT SEALERS

DUCTS SHALL BE SEALED WITH UNITED DUCT SEALER. DUCT TAPE WILL NOT BE ACCEPTED.

ACCESSORIES

- A. FIRE DAMPERS SHALL BE FURNISHED WITH FUSIBLE LINKS AND CHAINS AND SHALL MEET ALL REQUIREMENTS OF LOCAL CODES AND U.L.: THIS SHALL INCLUDE THE STEEL SLEEVE, WHERE REQUIRED, AT FIRE WALLS. PROVIDE ONE FUSIBLE LINK FOR EACH 6 SQUARE FEET OF DAMPER OR FRACTION THEREOF. DAMPERS SHALL BE RATED AND APPROVED BY UNDERWRITERS' LABORATORIES. RUSKIN IBD2 OR AIR BALANCE #119 STYLE B OR C, FOR WALL AND FLOOR INSTALLATION; RUSKIN CFD OR TERRI MODEL FD30-AS-R FOR CEILING INSTALLATION. INSTALLATION SHALL CONFORM WITH UBC SECTION 713 REQUIREMENTS.
- COMBINATION FIRE/SMOKE DAMPERS: "RUSKIN", FSD SERIES MINIMUM LEAKAGE CLASSIFICATION OF II, CONFORMING TO UL 555S CLASSIFICATION (OR PREFCO EQUAL). PROVIDE WITH FACTORY MOUNTED 120V ACTUATOR. INSTALLATION SHALL CONFORM TO UBC ARTICLE 713.10 REQUIREMENTS.
- ALL DAMPER SHAFTS SHALL BE EXTERNALLY MARKED (GROOVED PARALLEL TO DAMPER POSITION) INDICATING DAMPER BLADE POSITION.
- PROVIDE ACCESS DOORS (12"x12" MINIMUM; WITH VENTLOCK #202, #310 LATCHES AND #260 HINGES) FOR ALL DAMPERS OTHERWISE INACCESSIBLE, FIRE DAMPERS AND OTHER COMPONENTS OF THE SYSTEM, INSULATED TYPE IN INSULATED DUCTS.
- MANUAL DAMPERS SHALL BE SINGLE OR OPPOSED BLADE TYPE AS INDICATED ON THE DRAWINGS AND SHALL BE COMPLETE WITH EXTERNAL LOCKING QUADRANTS.
- FLEXIBLE DUCT SHALL BE "THERMA FLEX" TYPE GKM OR APPROVED EQUAL. DUCT SHALL BE FACTORY MADE USING COATED STEEL HELIX SPRING WIRE PERMANENTLY BONDED TO A COATED WOVEN FIBERGLASS COVER. MAXIMUM INSTALLED LENGTH OF FLEX DUCT SHALL BE 6 FEET, DUCTS SHALL MEET THE REQUIREMENTS OF NFPA 90A, AND UL181, CLASS 1.

ARCHITECTURAL ACCESS PANELS AND DOORS

- WHERE REQUIRED: WHEREVER A PIECE OF EQUIPMENT IS INACCESSIBLE AND REQUIRES ACCESS FOR MAINTENANCE, REPAIR OR ADJUSTMENT. INSTALL AS REQUIRED FOR ACCESS TO FIRE AND SMOKE DAMPERS.
- PHYSICAL PERFORMANCE: SIZE IS DEPENDENT UPON THE RELATIONSHIP OF THE DOOR TO THE PRODUCT BEING SERVICED. THEREFORE, WHERE NOT NOTED ON THE DRAWINGS, THE SIZE OF THE DOOR SHALL BE SELECTED TO PROVIDE CONVENIENT ACCESS TO ITS CONTENTS. THE FRAME SHALL BE FLUSH MOUNTED AND SHALL BE SUITABLE FOR THE BUILDING SURFACE IN WHICH IT IS BEING MOUNTED. PROVIDE FURRING AROUND THE DOOR FRAME AS DIRECTED WHERE THERE IS INSUFFICIENT DEPTH TO ALLOW A FLUSH MOUNTED FRAME AND DOOR. THE DOOR SHALL BE STEEL, OR STAINLESS STEEL AS INDICATED, AND OF SUFFICIENT GAUGE TO PREVENT PERMANENT DEFLECTION FROM NORMAL USE. PROVIDE FIRE RATED DOORS WHEN LOCATED IN FIRE RATED SURFACES.
- FURNISH DOORS TO SUBCONTRACTORS FOR INSTALLATION AND COORDINATE LOCATIONS. PROVIDE WITH PRIME COAT AND FIELD PAINT AS DIRECTED BY

DUCT INSULATION

- INTERIOR CONCEALED SUPPLY & RETURN DUCT SHALL BE INSULATED WITH 1.5 INCHES OF 1.0 LB/CUBIC FOOT DENSITY DUCT WRAP WITH FOIL BACKED SCRIM FACE. SEAL JOINTS VAPOR TIGHT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- INTERIOR EXPOSED SUPPLY DUCTS SHALL BE INSULATED WITH 1.0 INCHES OF 1.5 LB/CUBIC FOOT DENSITY DUCT LINER. LINER SHALL HAVE EROSION RESISTANT AIR SIDE FACE. LINE DUCTS WHERE SHOWN ON PLAN.
- EXTERIOR EXPOSED SUPPLY & RETURN DUCTS SHALL BE DOUBLE-WALLED, INSULATED DUCTS. BOTH INNER AND OUTER SKINS WILL BE GALVANIZED 26 GA. (MINIMUM) INSULATION SHALL BE 1.5 INCHES OF 1.5 LB/CUBIC FOOT OF DUCT LINER. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND SMACNA STANDARDS.

PART 3 - EXECUTION

COORDINATION

- CUTTING AND REPAIRING: INCLUDE IN THE WORK ALL CUTTING AND REPAIRING NECESSARY AND REQUIRED FOR THE INSTALLATION. REPAIRING SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THE TRADE INVOLVED, IN A MANNER SATISFACTORY TO THE OWNER.
- CONGESTED AREAS:
 - ALL CONDITIONS INVOLVING WORK UNDER THIS DIVISION AND OTHER SECTIONS SHALL BE COORDINATED IN ADVANCE OF INSTALLATION.
- DIFFERENCES OR DISPUTES CONCERNING COORDINATION, INTERFERENCE OR EXTENT OF WORK BETWEEN SECTIONS SHALL BE DECIDED BY OWNER/GENERAL CONTRACTOR/CONSTRUCTION MANAGER.

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- COORDINATION WITH OTHER DIVISIONS: COORDINATE ELECTRICAL INTERLOCKS OF MECHANICAL EQUIPMENT WITH THE ELECTRICAL DIVISION.
- PROVIDE, CAUSING NO DELAY, ALL REQUIRED SLEEVES, CHASES, CONCRETE INSERTS, ANCHOR BOLTS, ETC., BEFORE CONCRETE IS POURED. BE RESPONSIBLE FOR CORRECT LOCATION AND INSTALLATION OF SAME.
- INFORMATION TO OTHER DIVISIONS: PROVIDE TEMPLATES, INFORMATION AND INSTRUCTIONS TO OTHER DIVISIONS TO PROPERLY LOCATED HOLES AND OPENINGS TO BE CUT OR PROVIDED FOR MECHANICAL WORK.

SEISMIC RESTRAINT 3.2

PROVIDE SEISMIC RESTRAINTS PER SMACNA AND IBC, OR PER LOCAL AUTHORITY HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.

DUCTWORK 3,3

A GENERAL

- ALL DUCTWORK SHALL BE DELIVERED AND STORED IN SUCH A MANNER AS TO KEEP THE INTERIOR OF THE DUCT CLEAN, DUCTWORK SHALL NOT BE INSTALLED WHEN DUST OR DIRT IS BEING BLOWN THROUGH THE AREA DURING INSTALLATION. HUNG SECTIONS OF DUCT SHALL BE SEALED AT THE END OF EACH WORK DAY SO THAT NO INTRUSION OF
- ALL DUCTWORK SHALL BE STORED ON SITE WITH ALL OPENINGS COVERED AND TAPED TO PREVENT THE INTRUSION OF DUST AND DIRT.
- ANY DUCTWORK UNCOVERED DURING A WORKING DAY SHALL BE RE-COVERED BEFORE THE END OF THAT WORKING DAY.
- THE SIMPLE COVERING OF QUANTITIES OF DUCTWORK WITH PLASTIC SHEETS SHALL NOT BE AN ACCEPTABLE MEANS OF PROTECTION. THE OPENINGS IN EACH PIECE SHALL BE COVERED AND TAPED.
- ALL DUCTWORK SHALL BE INSTALLED AS DIMENSIONED ON THE DRAWINGS WITH FIELD ROUTING VERIFICATIONS, AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- CLEAN ALL INTERIOR & EXTERIOR DUCTWORK OF DUST AND DIRT AS IT IS INSTALLED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND EMPLOY ANY AND ALL MEANS NECESSARY TO INSURE THAT ALL DUCT SYSTEMS ARE INSTALLED AND MAINTAINED CLEAN AT ALL TIMES.
- TEST LOW VELOCITY DUCTWORK TO THE DESIGN OPERATING PRESSURE PER SMACNA. ALLOW LEAKAGE RATES AS PER THE ASSOCIATED AIR BALANCE COUNCIL (AABC).

B. SHEET METAL DUCTWORK:

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- INSTALL ALL SHEET METAL IN ACCORDANCE WITH LATEST ASHRAE AND SMACNA RECOMMENDATIONS, PROVIDE VARIATIONS IN DUCT SIZE (WITHOUT DIMINISHING SYSTEM PERFORMANCE) AND ADDITIONAL DUCT FITTINGS AS REQUIRED TO CLEAR OBSTRUCTIONS AND MAINTAIN CLEARANCES.
- INSTALL DUCTS WITH ZINC DICHROMATE IRON HANGERS FASTENED TO OVERHEAD CONSTRUCTION. HANGERS SHALL BE IN CONFORMANCE WITH SMACNA, ASHRAE AND IMC REQUIREMENTS.

C. ACCESSORIES:

- FIRE DAMPERS: INSTALL TYPE B FUSIBLE LINK FIRE DAMPERS FULL SIZE OF DUCT AT POINTS WHERE SHOWN OR REQUIRED.
- MANUAL VOLUME DAMPERS: PROVIDE VOLUME DAMPERS WHERE INDICATED ON THE DRAWINGS. INSTALL SINGLE BLADE VOLUME DAMPERS OF 16 GAUGE GALVANIZED STEEL WITH CONTINUOUS ? ROD SECURED TO SUITABLE SUPPORT BEARINGS. SCORE ENDS OF DAMPER SHAFT TO INDICATE POSITION OF DAMPER BLADE. INSTALL DAMPER WITH SUFFICIENT CLEARANCE FROM DUCT TRANSITION AND/OR OTHER EQUIPMENT TO AVOID BINDING.
- ACCESS DOORS: PROVIDE INSULATED ACCESS DOORS IN DUCTWORK AND FURRING FOR EACH FIRE DAMPER OR INSULATED ACCESS DOORS IN INSULATED DUCTS. PROVIDE PER SMACNA, 'UL' LISTING AND ALL RELATED CODES.

FILTERS

- PRIOR TO INSTALLING FILTER MEDIA IN AIR HANDLING UNITS, CHECK AND SEAL ALL GAPS OR CRACKS PRESENT IN THE FILTER FRAMES.
- INSTALL ALL FILTER MEDIA PRIOR TO STARTING SYSTEMS. VACUUM CLEAN ALL AIR HANDLERS PRIOR TO RUNNING UNITS AND INSTALLING

MAINTENANCE SCHEDULE

THE CONTRACTOR SHALL SUBMIT INFORMATION FROM THE EQUIPMENT MANUFACTURERS PERTAINING TO A LUBRICATION MAINTENANCE SCHEDULE, ALONG WITH ANTICIPATED BEARING LIFE. RELIABILITY AND LOW MAINTENANCE WILL BE A STRONG CONSIDERATION IN FAN SELECTION. INCLUDE THIS INFORMATION IN THE O&M MANUAL.

EQUIPMENT INSTALLATION

- SET ALL EQUIPMENT IN PLACE ALLOWING FOR EASY ACCESS TO ALL PARTS OF THE EQUIPMENT. DO NOT BLOCK ACCESS TO ANY ACCESS DOORS, PULL SPACES OR PARTS REQUIRING ACCESS FOR MAINTENANCE (48" MINIMUM OR REFER TO MANUFACTURERS RECOMMENDATIONS).
- PROVIDE ALL ANCHORS AND SUPPORTS FOR PROPER INSTALLATION ON EQUIPMENT. UNLESS NOTED OTHERWISE, ALL MATERIALS USED FOR ANCHORING AND SUPPORTS SHALL BE GALVANIZED.

EQUIPMENT IDENTIFICATION

IDENTIFY EACH FAN, PUMP, HEAT EXCHANGER, AIR HANDLER, MOTOR, MOTOR STARTER, AND SIMILAR EQUIPMENT. ALL EQUIPMENT SHALL HAVE ENGRAVED 2 COLOR (BLUE ON WHITE) PLATES THAT REFERENCE THE MAINTENANCE MANUALS.

GENERAL EQUIPMENT INSTALLATION REQUIREMENTS:

- POSITION EQUIPMENT TO RESULT IN GOOD APPEARANCE AND PROVIDE EASY ACCESS TO ALL COMPONENTS FOR MAINTENANCE AND FOR TUBE REMOVAL OR OTHER REPAIRS. INSTALL THE PIPING AND PIPE LINE ACCESSORIES SO THEY DO NOT INTERFERE WITH EQUIPMENT ACCESS. INSTALL EQUIPMENT ISOLATION VALVES IN SUCH A MANNER TO ALLOW COMPLETE MAINTENANCE AND DISASSEMBLY OF EQUIPMENT WITHOUT HAVING TO REMOVE EQUIPMENT ISOLATION VALVES. ..
- INSTALL EQUIPMENT IN A LOCATION THAT IS LEVEL, SECURE, AND FREE OF MOISTURE. PROVIDE SHIMS, ANCHORS, SUPPORT STRAPS, ANGLES, AND GROUTED BASES AS REQUIRED TO ACCOMPLISH THIS.
- ONLY USE GALVANIZED OR CADMIUM PLATED SCREWS, NUTS, BOLTS, RODS, AND WASHERS, AFTER FABRICATION, HOT DIP GALVANIZE UNFINISHED FERROUS ITEMS FOR OUTDOORS USE, BELOW GRADE INSTALLATIONS OR OTHER AREAS SUBJECT TO MOISTURE.
- INSTALL ALL EQUIPMENT PER MANUFACTURERS' RECOMMENDATIONS.

3.9 CONTROLS

- PROVIDE CONTROLS AS DESCRIBED IN THESE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE ACTUAL WIRING DIAGRAMS. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION THAT SHALL OPERATE PER THE "SEQUENCE OF OPERATION".
- THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL WORK ASSOCIATED WITH THE CONTROLS, INCLUDING CONDUIT, WIRING, AND FINAL CONNECTIONS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL POWER WIRING. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER WIRING. CONTROL WIRING MAY BE SUB-CONTRACTED TO THE ELECTRICAL CONTRACTOR,

3.10 TESTS:

- PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO PERFORM
- PROTECT VALVES AND EQUIPMENT FROM DAMAGE DURING TESTS. INCLUDE CONNECTION TO PREVIOUSLY TESTED SECTIONS, IF THE SYSTEMS ARE TESTED IN SECTIONS.
- SUBMIT TO THE ENGINEER, FOR APPROVAL, A LOG (BALANCE REPORT) OF ALL TESTS MADE WHICH SHALL INCLUDE DATE, TIME, TEMPERATURE, PRESSURE AND OTHER READINGS NECESSARY TO INDICATE THE SYSTEMS HAVE BEEN OPERATED AND TESTED IN THE MANNER OUTLINED IN THE CONSTRUCTION DOCUMENTS. TESTS SHALL BE OBSERVED AND SIGNED-OFF BY OWNER OR OWNER'S REPRESENTATIVE.

ADJUSTING AND BALANCING

- ADJUST ALL EQUIPMENT AND SYSTEM COMPONENTS AS SCHEDULED ON DRAWINGS, OR AS REQUIRED, TO RESULT IN THE INTENDED SYSTEM OPERATION. SYSTEMS SHALL BE INSTALLED, TESTED, AND ADJUSTED TO PERFORM AS DESIGNED BY THE ENGINEER.
- TESTING ADJUSTMENT AND BALANCING REPORT (TAB) TO PERFORMED AS PART OF THE GENERAL CONTRACT. ACTUAL WORK TO BE PROVIDED BY INDEPENDENT QUALIFIED TAB SUB CONSULTANT.

STARTUP SERVICES: 312

- PRIOR TO STARTUP, ENSURE THAT THE SYSTEMS ARE CLEAN AND READY, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PROPER EQUIPMENT ROTATION, PROPER WIRING, AUXILIARY CONNECTIONS, LUBRICATION, VENTING. CONTROLS, ALL FILTERS AND PROPERLY SET RELIEF AND SAFETY VALVES.
- START AND OPERATE ALL SYSTEMS AS REQUIRED. ENSURE CONTROLS ARE FUNCTIONING PROPERLY. INSTRUCT OWNER OR OWNERS REPRESENTATIVE ON PROPER OPERATION AND MAINTENANCE. PROVIDE COMPLETED AND ENGINEER REVIEWED O & M MANUALS.

3.13 WARRANTY

THE CONTRACTOR SHALL WARRANTY HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION. THIS INCLUDES WORKMANSHIP, MATERIALS, AND EQUIPMENT. CONTRACTOR SHALL PROVIDE LABOR, MATERIALS AND EQUIPMENT TO CORRECT ANY FAULTY INSTALLATIONS AND WORKMANSHIP

THE OWNER IS RESPONSIBLE FOR ROUTINE MAINTENANCE AND CARE.

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	ROOFTOP UNIT SCHEDULE																					
		NOMINAL	OSA	ESP	FAN BHP	DRIVE	500	Euro.	COOLING[1] TOTAL	SEN	HEATIN	G(NATURAL G	AS)	E	LECTR	RICAL		APPROX.	MANUSAGTUGER	MODEL	25.44.24.2
TAG	CFM	TONS			BHP		EDB	EWB	EER	MBH [5]	MBH [5]	MBH-IN	MBH-OUT	EFFICENCY	CHAR	FLA	MCA	моср	OPER WEIGHT	MANUFACTURER	#	REMARKS
RTU-1	3000	7-1/2	525	.60	1.63	BELT	80	62	9.0	83.6	81.3	120.0/180.0	96.0/144.0	80%	208/3/60	42	40.1	45	1200 Lbs.	CARRIER	48TFE008	[2],[3],[4],[6],[7],[8],[9],[11]
RTU-2	1600	4	155	.80	.93	BELT	80	62	9.0	45.7	42.2	72.0	56.0	80%	208/3/60	25	25.6	30	700 Lbs.			[2],[3],[4],[6],[7],[8],[9],[10],[11
RTU-3	3400	8-1/2	725	.60	2.10	BELT	80	62	9.0	93.7	90.3	120.0/180.0	96.0/144.0	80%	208/3/60	47	44.6	50	1200 Lbs.	CARRIER	48TFE009	[2],[3],[4],[6],[7],[8],[9],[11]
RTU-4	3000	7-1/2	665	.60	1.63	BELT	80	62	9.0	83.6	81.3	120.0/180.0	96.0/144.0	80%	208/3/60	42	40.1	45	1200 Lbs.	CARRIER	48TFE008	[2],[3],[4],[6],[7],[8],[9],[11]
																						-
	[1] DESIGN CONDITIONS: 95' F AMBIENT. MANUFACTURER'S APPROVED FOR SUBMITTAL OF COMPARABLE																					

PROVIDE WITH ROOF CURB PER MANUFACTURERS RECOMMENDATIONS, COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DEPTH OF INSULATION.

PROVIDE ENTHALPY CONTROLLED 100% ECONOMIZER W/100% FULLY MODULATING POWERED EXHAUST.

(ALTERNATE #9) [3

. PROVIDE UNITS W/ ELECTRONIC AUTO CHANGE-OVER HEATING/COOLING T-STAT W/ FAN CONTROL. T'STAT TO BE 365 CALENDAR DAY FULLY PROGRAMMABLE WITH 1-HOUR UNOCCUPIED OVERRIDE

[5] THESE VALUES ARE BASED UPON MANUFACTURER'S DATA, ASSUMING 80'F DB/62'F WB.

(ALTERNATE #10) [6] PROVIDE WITH ECONOMIZER CAPABLE OF 100% OSA. PROVIDE MECHANICAL OR CONTROLS STOP CAPABLE OF STOPPING © 50% OSA.

(ALTERNATE #10) [7] PROVIDE UNITS WITH BAROMETRIC RELIEF CAPABLE OF 20% RELIEF AIR. PROVIDE ENTHALPY CONTROLLED 100% ECONOMIZER.

PROVIDE DUCT MOUNTED SMOKE DETECTORS. PROVIDED AND INSTALLED BY MECHANICAL, FINAL CONNECTION BY ELECTRICAL

PROVIDE UNITS WITH LOOSE SHIPPED, FIELD WIRED CONVENIENCE OUTLETS SEPARATE CIRCUIT.

[10] PROVIDE ALTERNATE HIGH STATIC MOTOR.

[11] ROOF TOP UNITS TO OPERATE AT 70'F HEATING/72'F COOLING DURING OCCUPIED HOURS. FAN TO REMAIN ON DURING OCCUPIED HOURS. UNOCCUPIED TO OPERATE AT 65'F

HEATING/85'F COOLING. FAN ON AUTO DURING UNOCCUPIED HOURS.

DESCRIPTION OF ALTERNATES:

THESE DESCRIPTIONS ARE TO PROVIDE AN UNDERSTANDING FOR THE MECHANICAL CONTRACTOR ONLY, AND DO NOT REFLECT THE FULL SCOPE OF ITEMS THAT MAY BE REQUIRED FOR ALL DISCIPLINES. ALTHOUGH SOME DIRECTION ON WHERE TO FIND INFORMATION CONCERNING EACH ALTERNATE IS NOTED BELOW, IT IS NOT INTENDED TO BE COMPLETE. TREAT THE ENTIRE DRAWING AND SPECIFICATIONS SET (ALL CONTRACT DOCUMENTS) AS APPLYING TO ALL ALTERNATES LISTED IN THE BID FORM AND ON THESE DRAWINGS.

ALTERNATE #3 - ROOFING

THE INTENT OF THIS ALTERNATE IS TO PROVIDE A BASE BID DESIGN FOR ASPHALT SHINGLES, THAT INCLUDES EXHAUST FANS TO PROVIDE VENTILATION AIR UNDER THE SHINGLES TO MAINTAIN A LOWER TEMPERATURE AND PROLONG THE LIFE OF THE SHINGLES. FOR THE MECHANICAL THIS IS A DEDUCTIVE ALTERNATE, AS THE GENERAL CONTRACTOR IS TO PROVIDE CONCRETE TILED ROOF FOR THE ALTERNATE. THIS WOULD ALLOW THE MECHANICAL CONTRACTOR TO ELIMINATE THE

THIS BASE BID IS TO INCLUDE TWO EXHAUST FANS (EF-8), ONE LOCATED ON THE EAST SIDE OF THE ROOF WELL AND ONE ON THE WEST SIDE OF THE ROOF WELL. THESE ARE TO BE TIED TO SEPARATE HIGH TEMPERATURE THERMOSTATS TO BE LOCATED IN THE ATTIC ON THE TOP CHORD OF THE TRUSSES WITHIN 5'-0" OF FAN INLET. THESE ARE TO ACTIVATE THE FANS UPON THE TEMPERATURE RISING ABOVE 95F. ALL DUCTWORK AND ACCESSORIES AS DEPICTED IN THESE DRAWINGS REQUIRED FOR THE OPERATION OF THESE FANS SHALL BE PART OF THIS BASE BID.

THE ALTERNATE BID IS TO ELIMINATE THESE FANS AND THEIR ASSOCIATED DUCTWORK, CONTROLS AND ACCESSORIES.

ALTERNATE #9 - POWERED EXHAUST

THE INTENT OF THIS ALTERNATE IS TO PROVIDE 100% FULLY MODULATING POWERED EXHAUST MOUNTED DIRECTLY ON EACH ROOF TOP UNIT,

NO BASE BID.

ALTERNATE #10 - CENTRALIZED POWERED EXHAUST

THE INTENT OF THIS ALTERNATE IS TO PROVIDE 100% FULLY MODULATING POWERED EXHAUST CENTRALLY LOCATED AND CONTROLLED BY AVERAGING PRESSURE SENSORS IN EACH OF THE MAJOR COMPARTMENTS OF THE BUIDLING.

PROVIDE AS LISTED IN THE EXHAUST SCHEDULE EF-6, INCLUDE THE VFD FOR THIS FAN, THE CONTROLS, DUCT CONNECTIONS, LOW VOLTAGE WIRING ETC., SEE DRAWINGS M1.2, AND DETAIL 2 ON M3.1.

NO BASE BID.

						E	EXH	AUS	TFAN	SCH	EDULI	E			
EQUIP TAG	AG AREA SERVED [6] TYPE DRIVE CFM ESP RPM SONES (WATTS) ELECT WEIGHT MANUFACTURER MODEL # REMARKS														
EF-1	RESTROOM	4	CEILING	DIRECT	75	.25	1200	1.5	(65)	115/1/60	22 Lbs.	соок	GC-240	[1]	
EF-2		1	CEILING	DIRECT	100	.25	1200	1.5	(65)	115/1/60	22 Lbs.	COOK	GC-240	[3]	
EF-3		2	CEILING	DIRECT	150	.25	1365	3.5	(77)	115/1/60	25 Lbs.	COOK	GC-320	[3]	
EF-4		3	CEILING	DIRECT	200	.25	1610	4.3	(135)	115/1/60	25 Lbs.	COOK	. GC-340	[3]	
EF-5	CRAWL SPACE	1	INLINE	DIRECT	155	.25	1360	2.1	(61)	115/1/60	25 Lbs.	COOK	GN-320	[2],[4]	
EF-6	RELIÈF AIR	1	UPBLAST	BELT	6000	.50	1725	7.9	1 HP	115/1/60	400 Lbs.	COOK	330R7B	[7],[8],[9],[10]	
EF-7	UTILITY 2	1	CEILING	DIRECT	75	.25	1200	1.5	(65)	115/1/60	22 Lbs.	COOK	GC-240	[5]	
- EF-8	ATTIC	2	INLINE	DIRECT	230	.125	1500	3.4	153	115/1/60	22 Lbs.	COOK	GN-180	[5]	
EF-9	ISOLATION ROOM	1	INLINE	DIRECT	230	.125	1500	3.4	153	115/1/60	22 Lbs.	COOK	GN-180	[5]	
	K WITH MOTION SENSO	R, COORDIN	VATE W/ ELE	CTRICAL				[9	PROVIDE WITH	VFD TO ACCEPT	SIGNAL FROM PRES	SURE MANUFACT	URER'S APPROVE	D FOR SUBMITTAL OF COMPARABLE	

CONTROL PANEL SEE 2/M3.1.
[10] PROVIDE WITH INVERTOR RATED DUTY MOTOR.

(ALT. #3)

(ALTERNATE #10)

- [1] INTERLOCK WITH MOTION SENSOR, COORDINATE W/ ELECTRICAL [2] FAN TO RUN CONTINUOUSLY.
- [2] FAN IO RUN CONTINUOUSSE.

 3) PROVIDE WITH INDEPENDENT WALL SWITCH.

 [4] TIE FAN TO INDICATOR LICHT W/ PERMANENT SICN, IN NURSE AREA, WHICH SIGNALS IF FAN FAILS TO ENERGIZE. PROVIDE DIFFERENTIAL PRESSURE SWITCH TO PROVE FLOW.
- 6) VERIFY ALL COUNTS WITH THE FLOOR PLANS.
- [7] PROVIDE EXHAUST FAN WITH MANUFACTURERS ROOF CURB WITH 1/2" NEOPRENE RUBBER VIBRATION ISOLATING PAD ALL AROUND BASE CURB.
- [8] PROVIDE WITH BACKDRAFT DAMPER, DAMPER TO BE LOW LEAKAGE WITH RUBBER END SEALS.

		GRIL	LES,	REGIST	TERS /	AND DIF	FUSERS S	SCHED	ULE
EQUIP. TAG	AREA SERVED	NOMINAL FACE SIZE	NECK SIZE	MATERIAL	FINISH	MOUNTING TYPE [2]	MANUFACTURER	MODEL #	DESCRIPTION
SD-1		[4]	[1]	STEEL	#26 WHITE	LAY-IN	TITUS	TMS	SUPPLY DIFFUSER
SD-2		[3]	[1]	STEEL	#26 WHITE	HARD	TITUS	TMS	SUPPLY DIFFUSER
RG-1		[4]	[1]	STEEL	#26 WHITE	LAY-IN	TITUS	25RL	RETURN GRILLE - 1/2" SPACING, 30" DEFLECTION
RG-2		[3]	[1]	STEEL	#26 WHITE	HARD/SIDEWALL	TITUS	25RL	RETURN GRILLE - 1/2" SPACING, 30" DEFLECTION
EG-1		[4]	[1] .	STEEL	#26 WHITE	LAY-IN	TITUS	25RL	EXHAUST GRILLE - 1/2" SPACING, 30" DEFLECTION
EG-2	:	[3]	[1]	STEEL	#26 WHITE	HARD/SIDEWALL	TITUS	25RL	EXHAUST GRILLE - 1/2" SPACING, 30" DEFLECTION

[1] SEE PLANS FOR NECK SIZE. LEAD IN DUCT SIZE SHALL BE THE SAME AS NECK SIZE. PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED.

CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING GRILLES, REGISTERS, AND DIFFUSERS. NOMINAL FACE SIZE SHALL BE SIZED WITH NC RATING OF 25 OR LESS.

[4] NOMINAL FACE SIZE SHALL BE SIZED WITH NC RATING OF 25 OR LESS. PROVIDE WITH 24"x24" LAY-IN CEILING PANEL TO MATCH CEILING TYPE.

	WA	LLN	MUON	TED	ELEC	TRIC	HEA.	TER SCH	HEDUL	E
EQUIP TAG	AREA SERVED	QTY [2]	TYPE	CFM	ELECT	WATTS	OPER WEIGHT	MANUFACTURER	MODEL #	REMARKS
EWH-1	ENTRANCE	6 .	ELECTRIC	50	120/1/60	500		QMARK	CRA-0512-T2	[1]

[1] PROVIDE UNIT WITH INTEGRAL THERMOSTAT CONTROLS.

[2] VERIFY COUNT WITH FLOOR PLAN

MANUFACTURER'S APPROVED FOR SUBMITTAL OF COMPARABLE PRODUCTS OMARK, MARK

STERED PROFESSION GINE FOR



MANUFACTURER'S APPROVED FOR SUBMITTAL OF COMPARABLE

PRODUCTS

ANEMOSTAT, KRUGER, PRICE, NAILOR, TITUS

PRODUCTS

PRODUCTS

GREENHECK, PENN, CARNE

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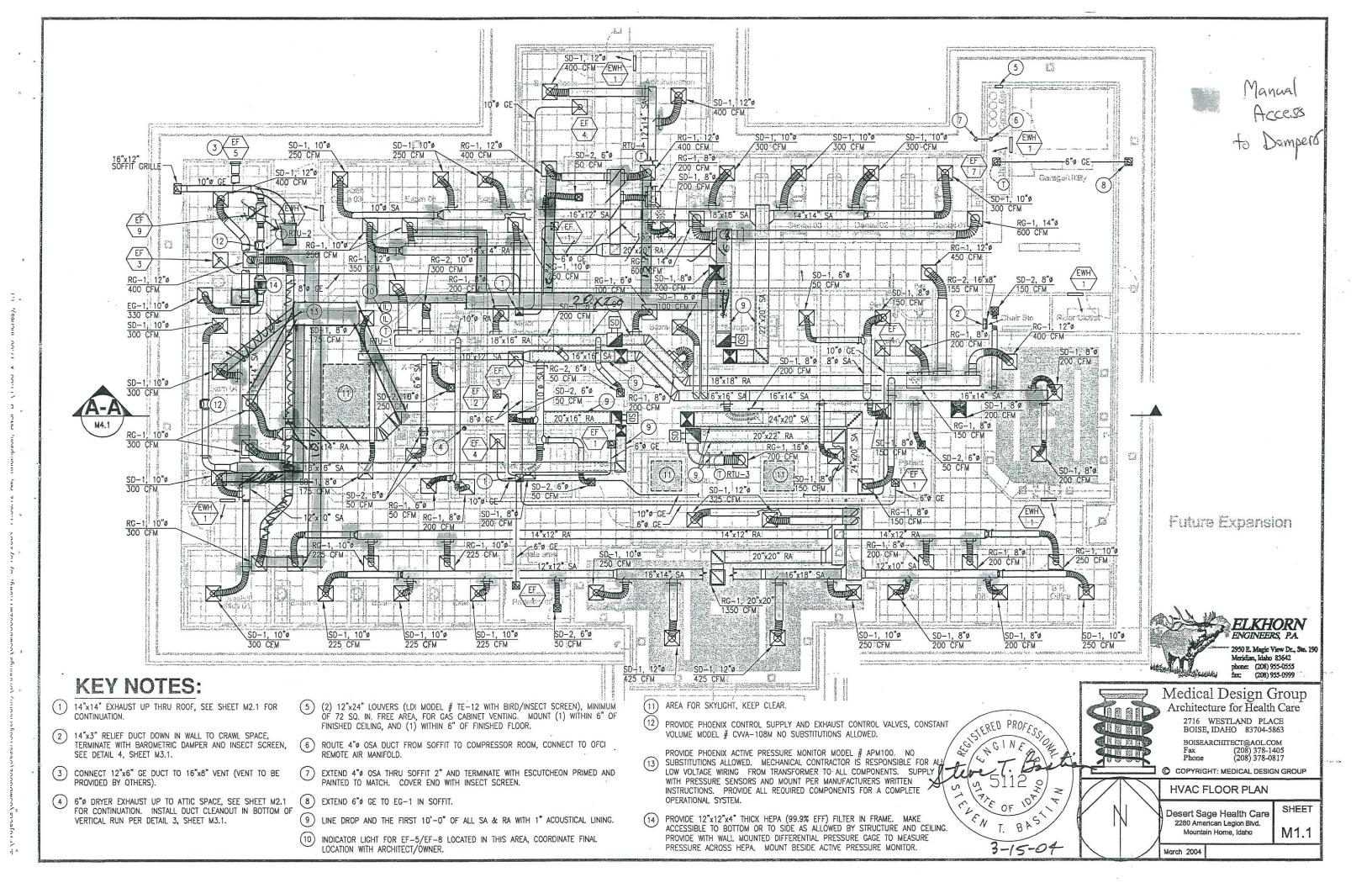
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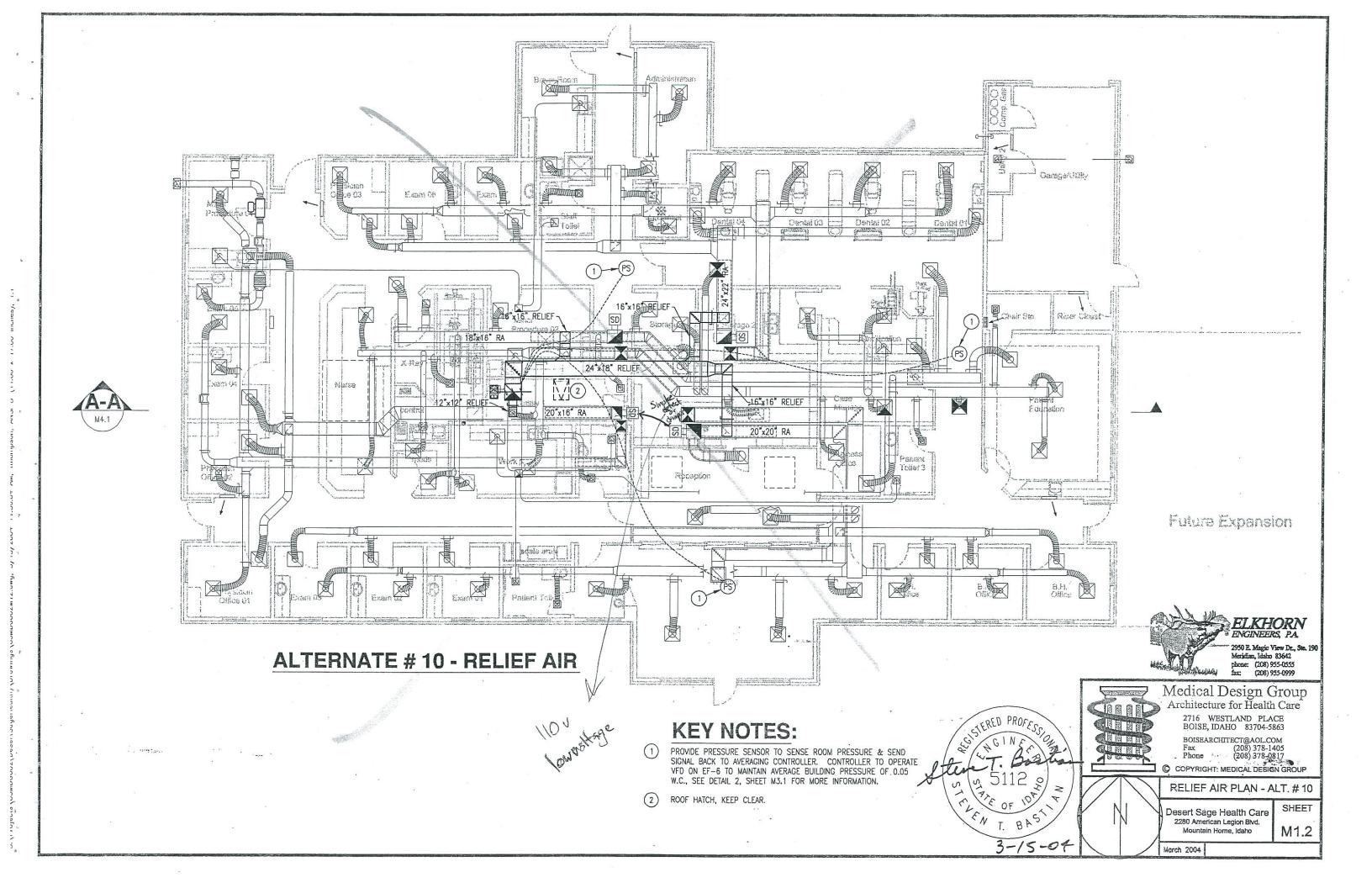
HVAC SCHEDULES

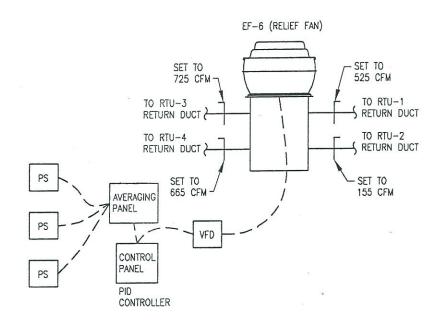
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Mountain Home, Idaho







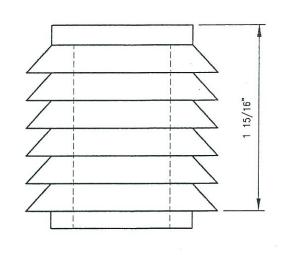
RELIEF FAN SEQUENCE

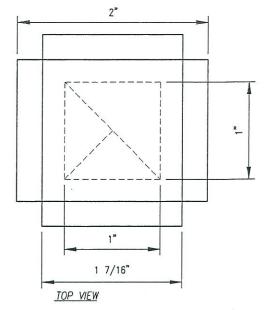
SEQUENCE OF OPERATIONS

EF-6 TO START UPON AVERAGE PRESSURE TO RISE TO +0.1" W.G. UPON START, OPERATE FAN AT 50% SPEED FOR 30 SECONDS (ADJUSTABLE). THEN MODULATE TO CONTROL PRESSURE TO SET POINT.

> STOP FAN UPON PRESSURE FALLING TO + .05" W.G.

> ALL SET POINTS TO BE ADJUSTABLE CONTRACTOR TO SUBMIT ALL PROPOSED COMPONENTS FOR REVIEW.



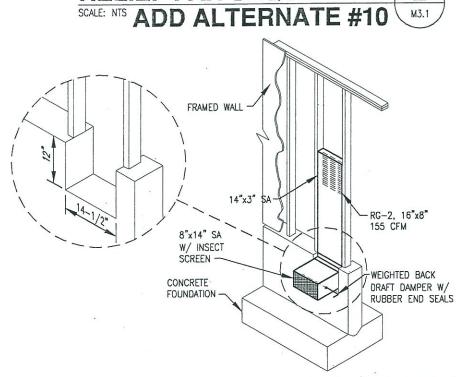


SIDE VIEW

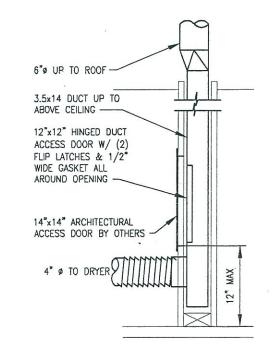
RELIEF VENTILATOR TO BE COOK MODEL 12X12X6TRE, WITH MANUFACTURERS RECOMENDED ROOF CURB.

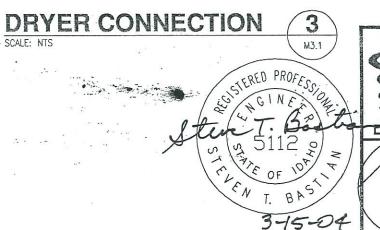
RELIEF VENTILATOR DETAIL





CRAWL SPACE RELIEF DUCT







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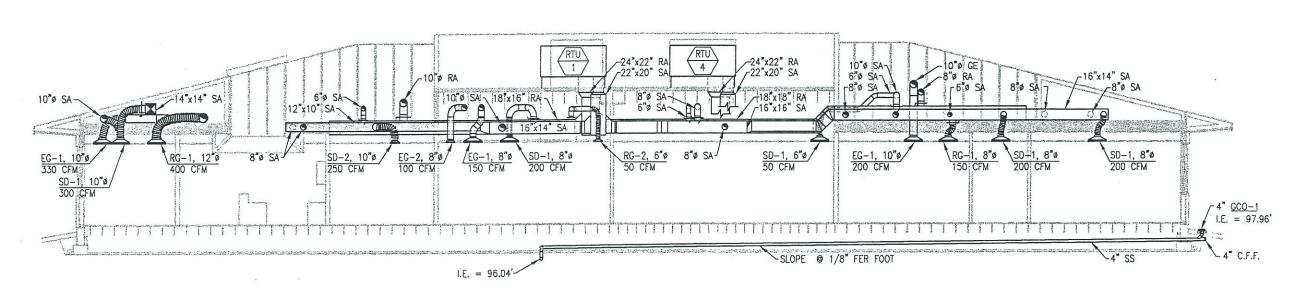
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HVAC DETAILS

M3.1

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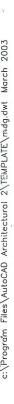
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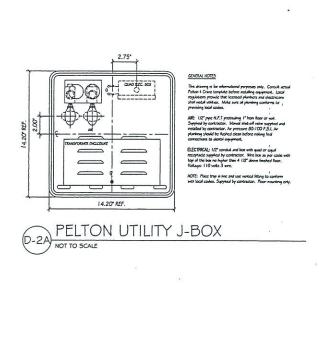
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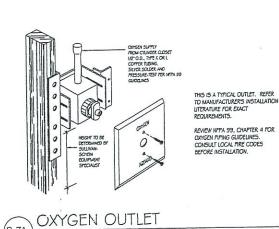
MECH. BUILDING SECTIONS

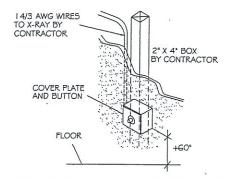
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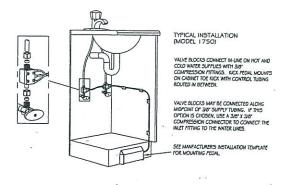




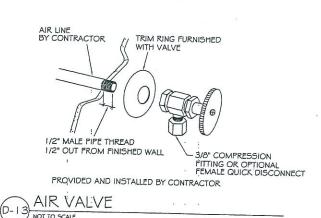


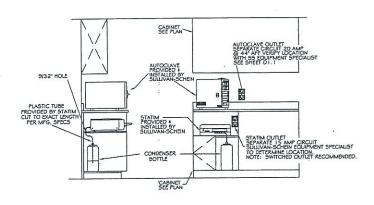
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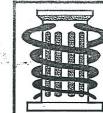






AUTOCLAVE \$ STATIM OUTLETS

NOT TO SCALE



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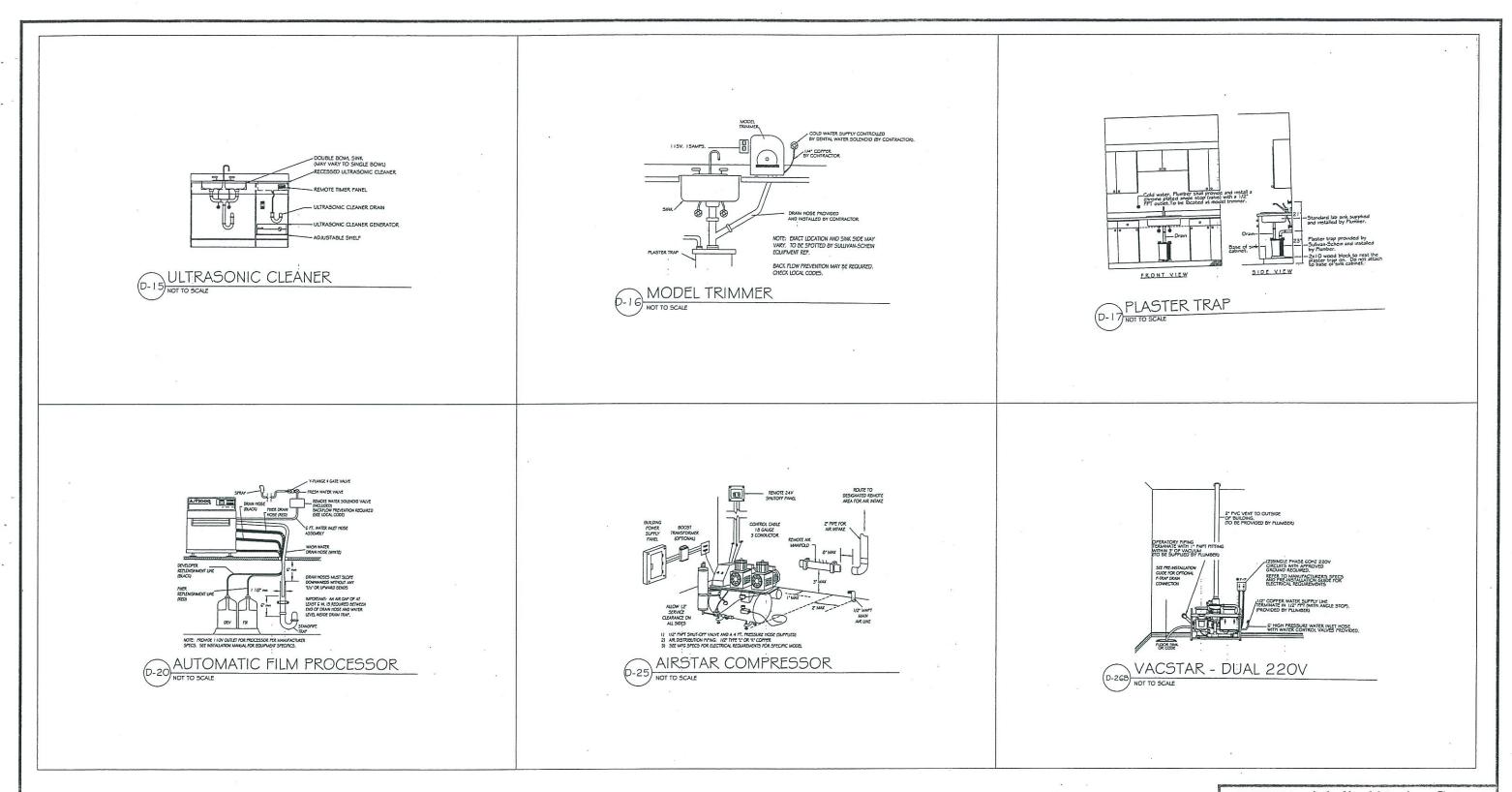
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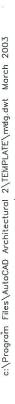
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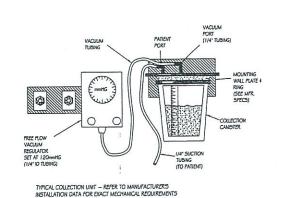
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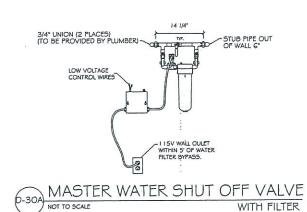
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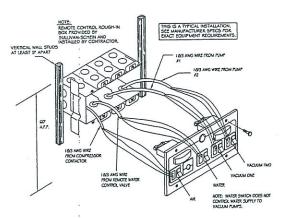
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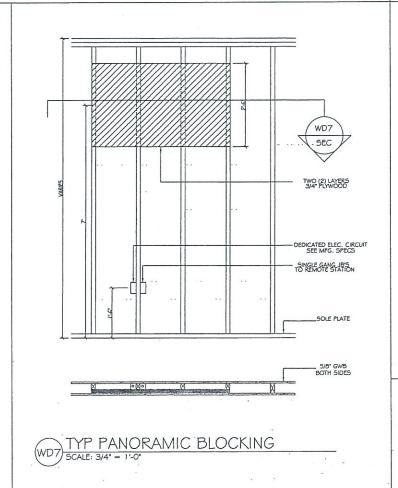


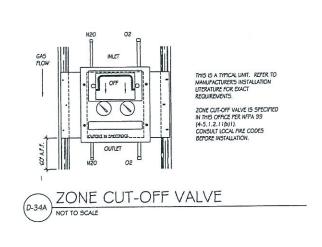
SURGICAL VACUUM INLET

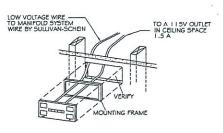












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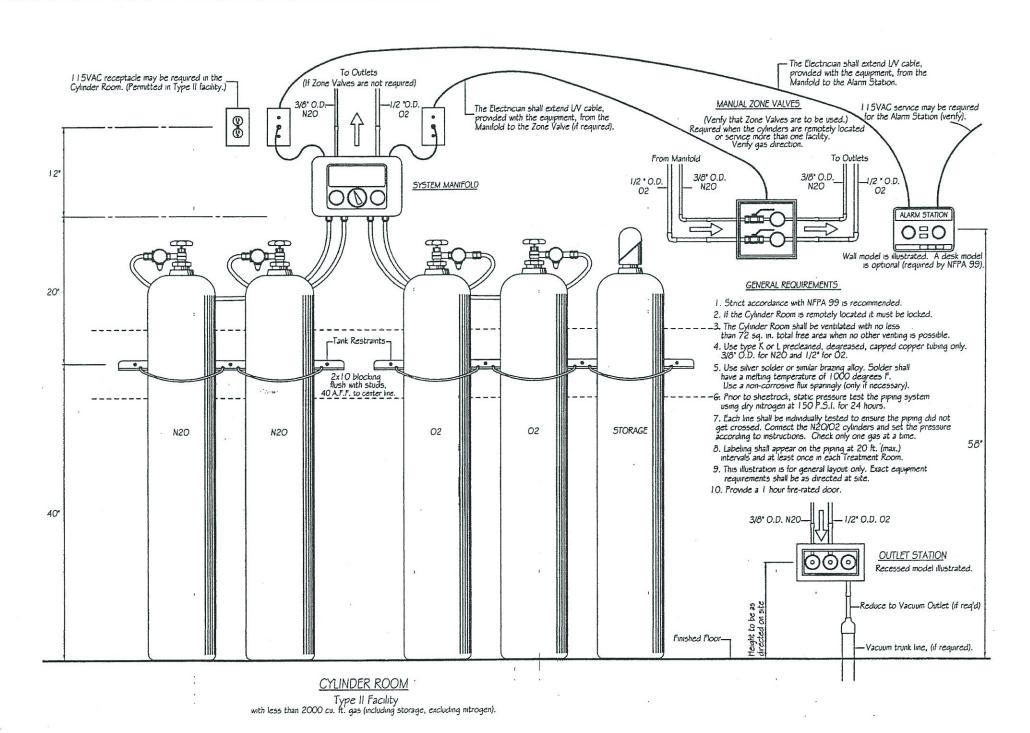
2280 American Legion Blvd.

Mountain Home, Idaho

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SHEET

Feb 2004 D 1.2.dwg 03/15/04 13:25



VITROUS OXIDE AND OXYGEN TANK ROOM DETAIL



Medical Design Group Architecture for Health Care

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DENTAL DETAILS

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ELE	CT. SYMBOL SCHEDULE
	FLUORESCENT FIXTURE (TYPICAL)
EM	FLUOR. FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY BALLAST TO POWER ONE LAMP UPON POWER FAILURE.
ONL	UNSWITCHED NIGHT LIGHT
\otimes	EXIT LIGHT (DIRECTIONAL ARROWS ON DRAWINGS)
0	CEILING MOUNTED FIXTURE
Ю	WALL MOUNTED FIXTURE
	RECESSED CAN TYPE FIXTURE
SPS	EMERGENCY LIGHT WALL OR CLG. MT.
\$	SINGLE POLE SWITCH
\$ ³	3-WAY SWITCH
\$ ⁴	4-WAY SWITCH
\$ ^F	EXHAUST FAN TIMER SWITCH (0 - 30 MIN)
\$ ^T	THERMAL OVERLOAD SWITCH W/PILOT LIGHT
(\$	FLUOR. DIMMER SWITCH, SEE FIXT, NOTE (2)
(E)	PHOTOELECTRIC CELL/SWITCH
J	JUNCTION BOX
\ominus	DUPLEX RECEPTACLE (WP=WTHRPRF, GFI=GRND FLT)
⊕ s	DUPLEX RECEPTACLE (S = SAFETY TYPE OUTLET) SUCH AS P&S "TR" SERIES TAMPER RESISTANT
0	DOUBLE DUPLEX OUTLET
•	DOOR PUSHBUTTON OR CONTROLLER
⊕ E	SAME AS
	DISCONNECT SWITCH (F=FUSED DISCONNECT)
	MAIN OR BRANCH PANELBOARD
	TELEPHONE / DATA BOARD
	BRANCH CIRCUIT - CONCEALED
	BRANCH CIRCUIT - IN FLOOR OR UNDERGROUND
# A-1.3	BRANCH CIRCUIT - HOME-RUN TO PANEL
1	DRAWING NOTE (ON THE SHEET WHERE SHOWN)
(EF)	MECHANICAL EQUIPMENT OR DETAIL SYMBOL
T	TIME CLOCK SWITCH
T	THERMOSTAT W/ 3/4"C,. TO MECH UNIT.*
- /u	CROSS LINES SHOW # OF COND'S. IF MORE THAN 2 GREEN GROUND CONDUCTOR AND ISOLATED GROUND CONDUCTOR NOT SHOWN.
(F)	FAN MOTOR CONNECTION POINT
(M) -	MOTOR CONNECTION POINT
•	VOICE & OR DATA OUTLET 4" SQ. DEEP BOX WITH 1" CONDUIT BACK TO MAIN TELEPHONE BACKBD. UNLESS INDIC. OTHERWISE SEE DETAIL, SHT. E4.1
(SD)	SMOKE DAMPER BY MECH. 120 VOLT

* SEE MECHANICAL DRAWINGS FOR CONDUIT DESTINATION.

.FIXTURE NOTES:

- PROVIDE WITH ALL NECESSARY TRAC SYSTEM ACCESSORIES, SUCH AS LIVE FEED ENDS, DEAD ENDS, CANOPIES, MOUNTING CLIPS, ETC., TO MAKE A COMPLETE SYSTEM. COMPONENT COLORS TO BE SELECTED BY ARCHITECT.
- ALL F2A FIXTURES TO BE SUPPLIED WITH A LUTRON DIMMING BALLAST #FDB-4827-120-3. PROVIDE WITH CORRESPONDING DIMMER SWITCH LUTRON #NTF-10 (COLOR BY ARCH.)
- STANDARD FINISH / COLOR TO BE SELECTED BY ARCHITECT.
- FIXTURE TO BE SET BACK FROM BASE OF POLE APPROX. 4'-O. OR AS PER MFG'RS. RECOMMENDATIONS.

ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LAMP TYPES WITH FIXTURE TYPE BEFORE ORDERING.

LOCATION OF ALL MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTIONS.

- ELECTRICAL CONTRACTOR SHALL PROVIDE MINIMUM WORKING CLEARANCE AS PER NEC BEFORE INSTALLING ANY ELECTRIC PANELS OR CABINETS.
- INSTALL ALL LIGHT FIXTURES IN MECHANICAL ROOM AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATION.
- ALL FLUORESCENT FIXTURES SHALL BE SUPPLIED WITH TO (35K) LAMPS AND ELECTRONIC BALLASTS WITH -20% THD.
- 6 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONCRETE PADS AS REQUIRED ON ALL ELECTRICAL EQUIPMENT.

- 7 CONFIRM EXACT LOCATIONS OF ALL TELEPHONE OUTLETS WITH OWNER PRIOR TO
- ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR EXACT 8 ELECTRICAL CONTRACTOR SHALL MOUNT SWITCHES AT 48" AND MOUNT CONVENIENCE OUTLETS AT 18" OR AS SHOWN ON PLANS TO MEET HANDICAPPED REQUIREMENTS.
 - 9 ALL ACRYLIC LENSES USED ON THIS PROJECT, TO BE A MINIMUM OF .125" THICK.
 - IO LOCATE SWITCHES, OUTLETS. ETC., SHOWN AT ROOM ENTRY DOORWAYS, AS CLOSE TO DOOR FRAME AS POSSIBLE, SO AS NOT TO INTERFERE WITH ROOM CABINETS, ETC.
 - II SUPPORT ALL LIGHT FIXTURES INDEPENDENT OF CEILING.
 - 12 E.C. SHALL OBTAIN ALL APPLICABLE PERMITS FOR THIS WORK AND PAY ASSOCIATED FEES.
 - 13 MAINTAIN 24" MIN. CLEARANCE FROM ALL COMM, CABLES AND ELECTRONIC BALLASTS.
 - 14 INSTALL A GREEN GROUND CONDUCTOR IN ALL RACEWAYS. CONDUIT GROUND IS NOT ACCEPTABLE.

		LIGHT		FIXTURE	SCHED	JLE	
TYPE	DESCRIPTION	MOUNT	VOLT	LAMPS	MFGR.	CATALOG. #	NOTES
F1	2x4 2-LAMP LAY-IN GRID TROFFER - PRISMATIC LENS	RECESSED	120	2-F32T8/5PX35	LITHONIA METALUX	25P8 G232 RW AI2I25 I20 GEB 2GPXR-232AI25-I20-EB8I-WDF	
F2 F2A	2x4 3-LAMP LAY-IN GRID TROFFER - PRISMATIC LENS SAME AS F2 - W/ DIMMING BALLAST	RECESSED	120	3-F32T8/SPX35	LITHONIA METALUX	25P8 G332 RW AI2I25 I20 GEB 2GPXR-332AI25-I20-EB8I-WDF	2>
F3	2x4 4-LAMP LAY-IN GRID TROFFER - PRISMATIC LENS	RECESSED	120	4-F32T8/SPX35	LITHONIA METALUX	25P8 G432 RW AI2I25 I20 GEB 2GPXR-432AI25-I20-EB8I-WDF	
F4	IX4 2-LAMP SURFACE WRAP LENS	SURFACE	120	2-F32T8/SPX35	LITHONIA METALUX	LB 232 I2 <i>0 G</i> EB W5-232A-I2 <i>0-</i> EB8I	
F5	4' 2-LAMP OPEN STRIP LIGHT	SURFACE OR COVE	120	2-F32T8/SPX35	LITHONIA METALUX	C232 120 GEB 55-232- 20-EB&	
F6	INTERIOR DECORATIVE WALL SCONCE	WALL @ 7'-6 UNLESS NOTED	120	I-26 DTT OR 2-I3 DTT	LITHONIA SHAPER	AVSP I 26DTT MDR I20 ALB M662-CF2/I3-I20-SC-PMR/MW	
F7	EXTERIOR DECORATIVE COMP FLUOR, WALL MOUNT	WALL @ 8'-0	120	2-F26 CF	ADVENT	AEWI030 2F26 120	3
F8	EMERG. WBATTERY LED EXIT LT. (SINGLE FACE)	WALL @ 7'-6 OR CLG.	120	INCLUDED	LITHONIA SURELITES	LES WIG 120/2TT ELN CX-7170-GW	
F9	EXTERIOR RECESS SOFFIT CAN LT. MH HID (NO LENS)	RECESSED	120	I-MXRIOO/U/MED/O (OPEN RATED LAMP)	LITHONIA PORTFOLIO	AH-100M TWRLD-120 MDT-740-T750 WH	
F10	4' I-LAMP UNDER COUNTER	UNDER OVER- HEAD CABINET	120	I-F32T8/SPX35	ALKCO FAILSAFE	SF332/WLAMP MTS-32-120V IKI2-EB81	
F11	INTERIOR RECESS CAN (COMP. FLUOR.) WLOW IRR. REFLECTOR (HORIZ. LAMP)	RECESSED	120	I-F26DBXT4/SPX35	LITHONIA PORTFOLIO	AF 126DTT 8AR LD 120 C7132 E7151STRM7-P	
F12	INTERIOR RECESS INCAND. CAN LIGHT ON DIMMER SW.	RECESSED	120	I-75 WATT AI9	LITHONIA PORTFOLIO	A6AR WR LD -	
F13	LINEAR FLUOR. DIRECT/INDIRECT CABLE SUSPENSION SYSTEM (2-LAMPS IN CROSS SECTION) SAME AS FI3 EXCEPT 3-LAMPS	PENDANT 18" FROM CLG.	120	2-F32T8/SPX35 (IN CROSS SECTION) 3-F32T8/SPX35	NEORAY	ITIP 2TB 1850 16' 120	
F13A F14	IN CROSS SECTION LOW VOLT TRAC SYSTEM (QUANT. OF HEADS SHOWN)	CEILING -	120/	(IN CROSS SECTION) PAR 38 50W (FOR EACH HEAD)	LITHONIA	L.V TRAC - LT* (CBA)	\Diamond
F15	2x4 2-LAMP RECESS LAY-IN INDIRECT W SIDE PURF BASKETS	RECESSED	120	2-F32T8/5PX35	LITHONIA	HEAD(5) - LPHR (BLW5) (CBA) 2AV 6232 MDR 5MD 120 GEB -	27
F16	PORCELAIN SOCKET	CEILING	120	1-75 WATT AI9	GEN. ELECT.	GE 5740-7	
F17	FLUSH IN GROUND FLAG POLE LIGHT	FLUSH IN GROUND	120	I-175 MH	GREENLEE	RDS-100MH-120-SPV	4

ELECTRICAL SHEET

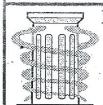
16.00	NOTES AND SCHEDULES
16.01	ELECTRICAL SITE PLAN
16.10	FLOOR PLAN - LIGHTING
16.20	FLOOR PLAN - POWER
16.21	POWER RISER, SCHED'S.
16.22	ELECTRICAL PANEL SCHED'S.
16.23	-DENTAL EQUIP. CONN. PLAN
16.30	ELECTRICAL DETAILS
16.40	ELECTRICAL SPECIFICATIONS
16.41	LIGHTING COM-CHECK REPORT



PROJ. NO. 0353

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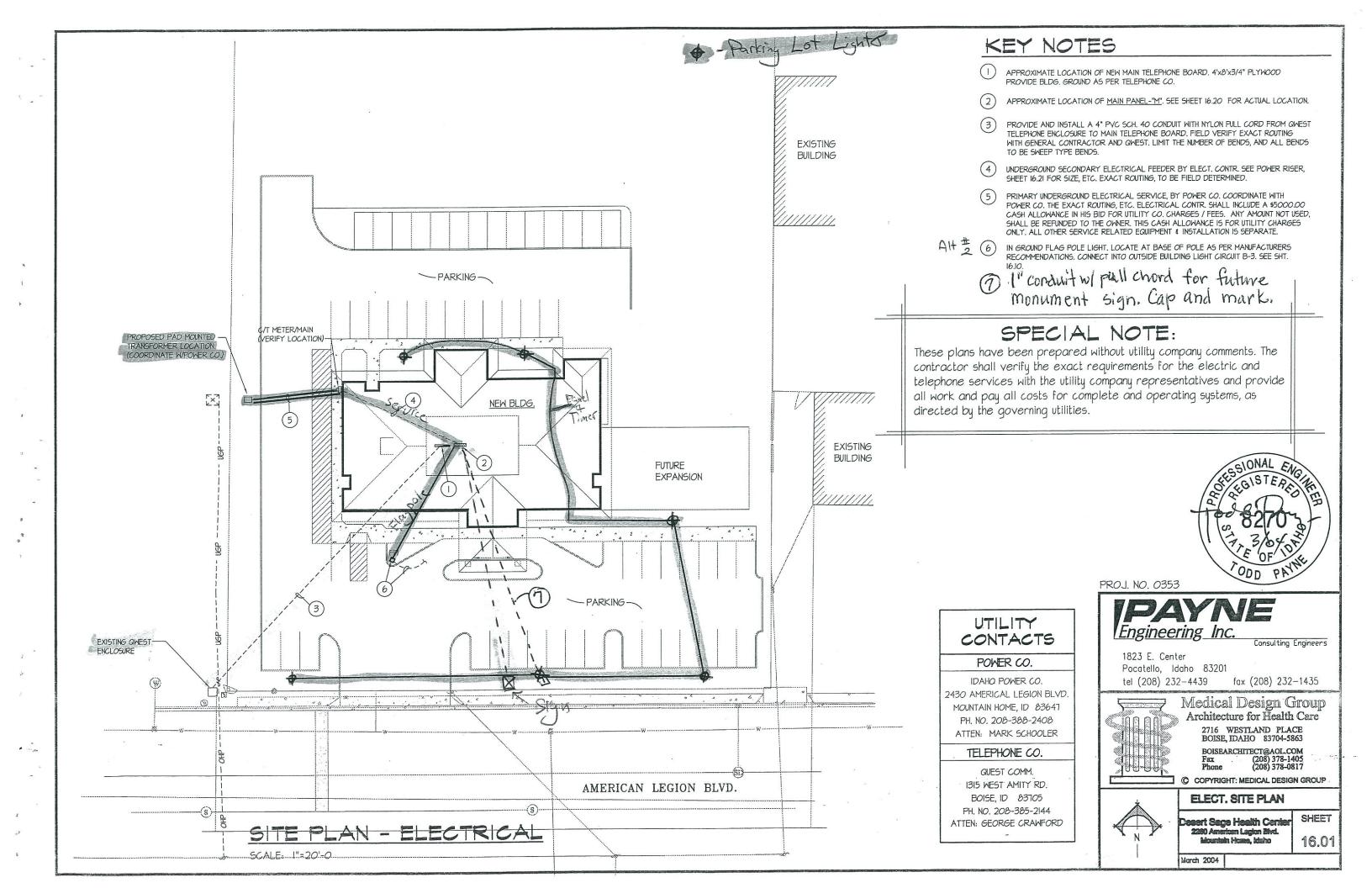
NOTES & SCHEDULES

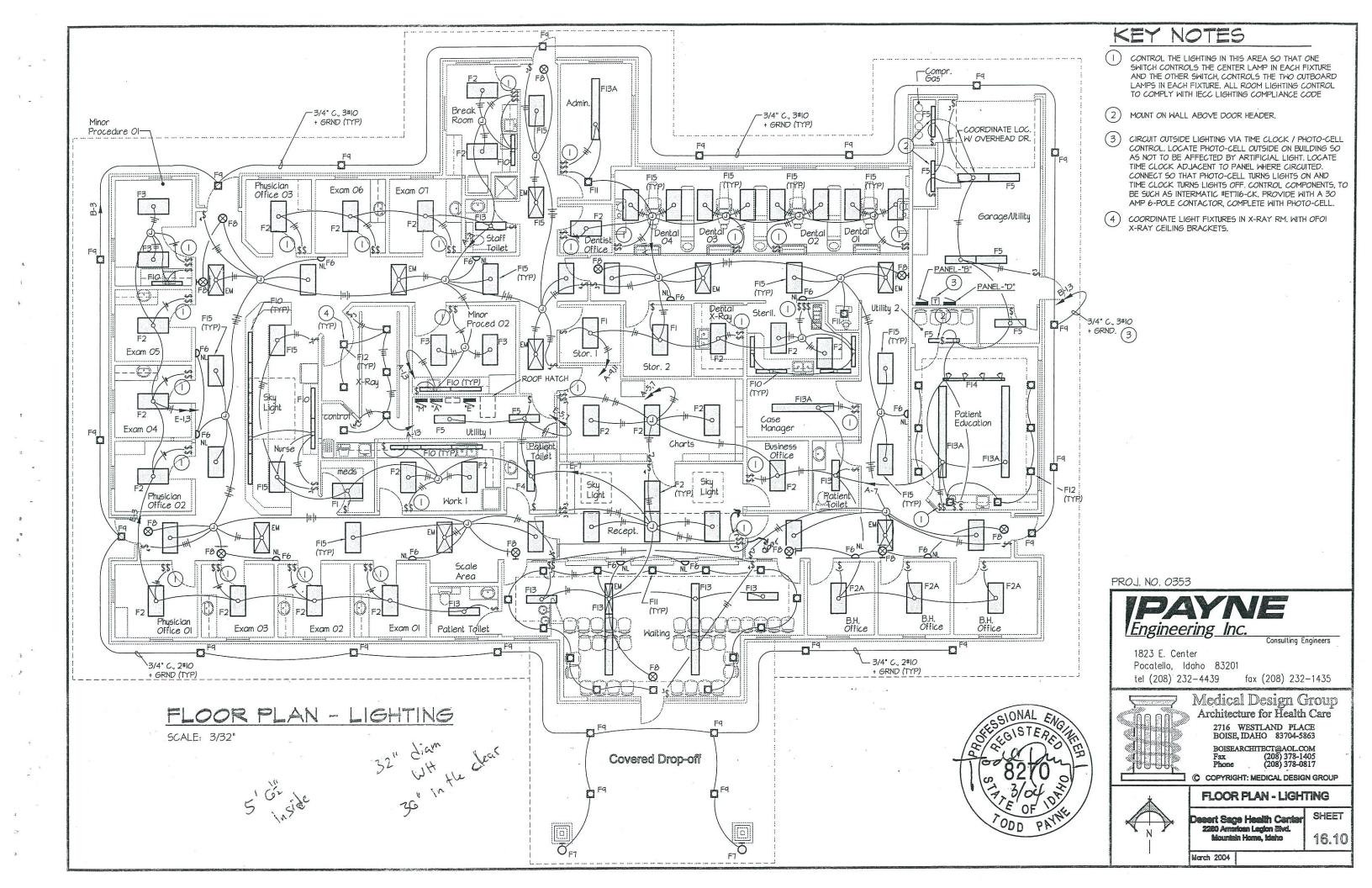
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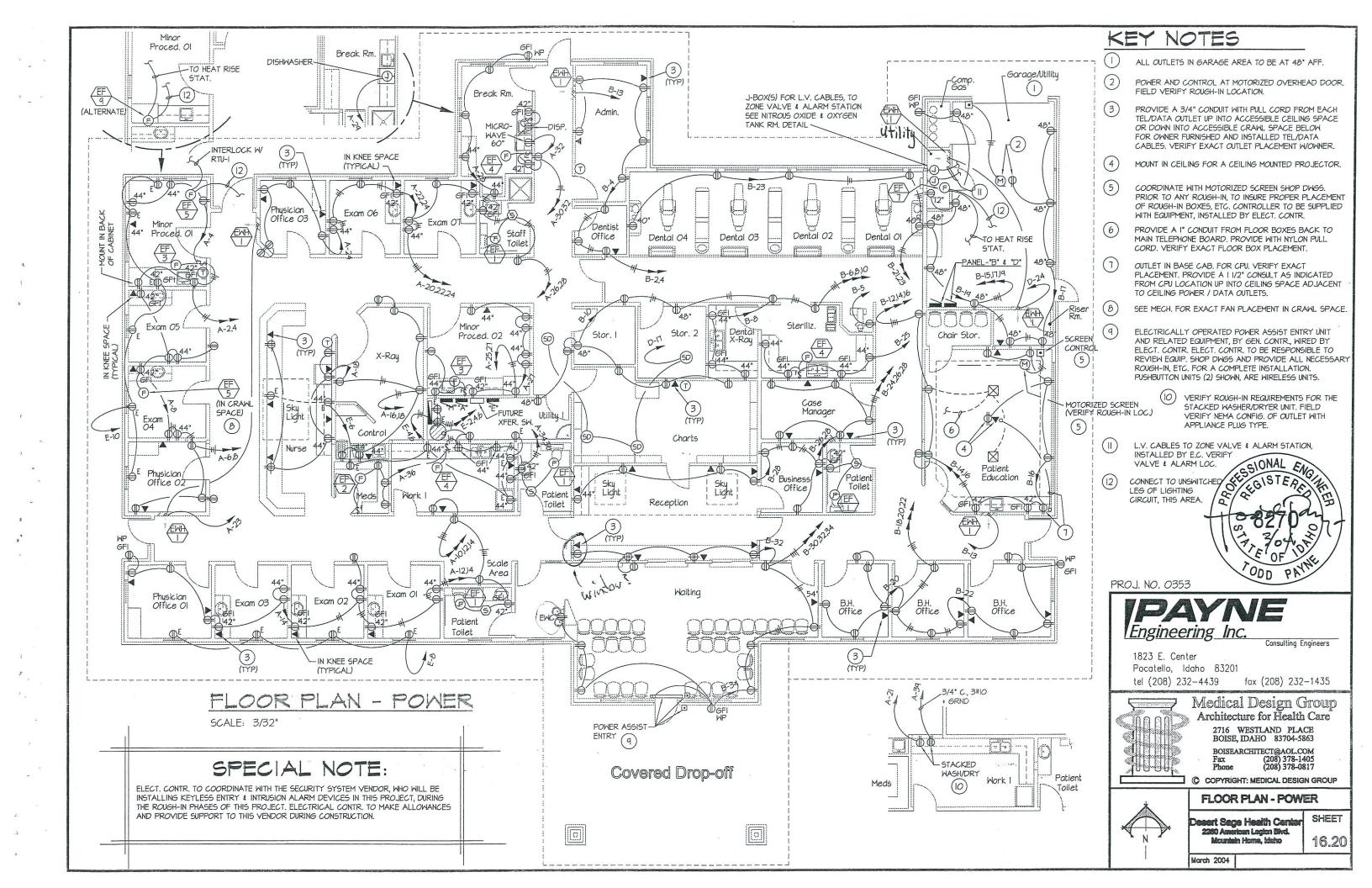
March 2004

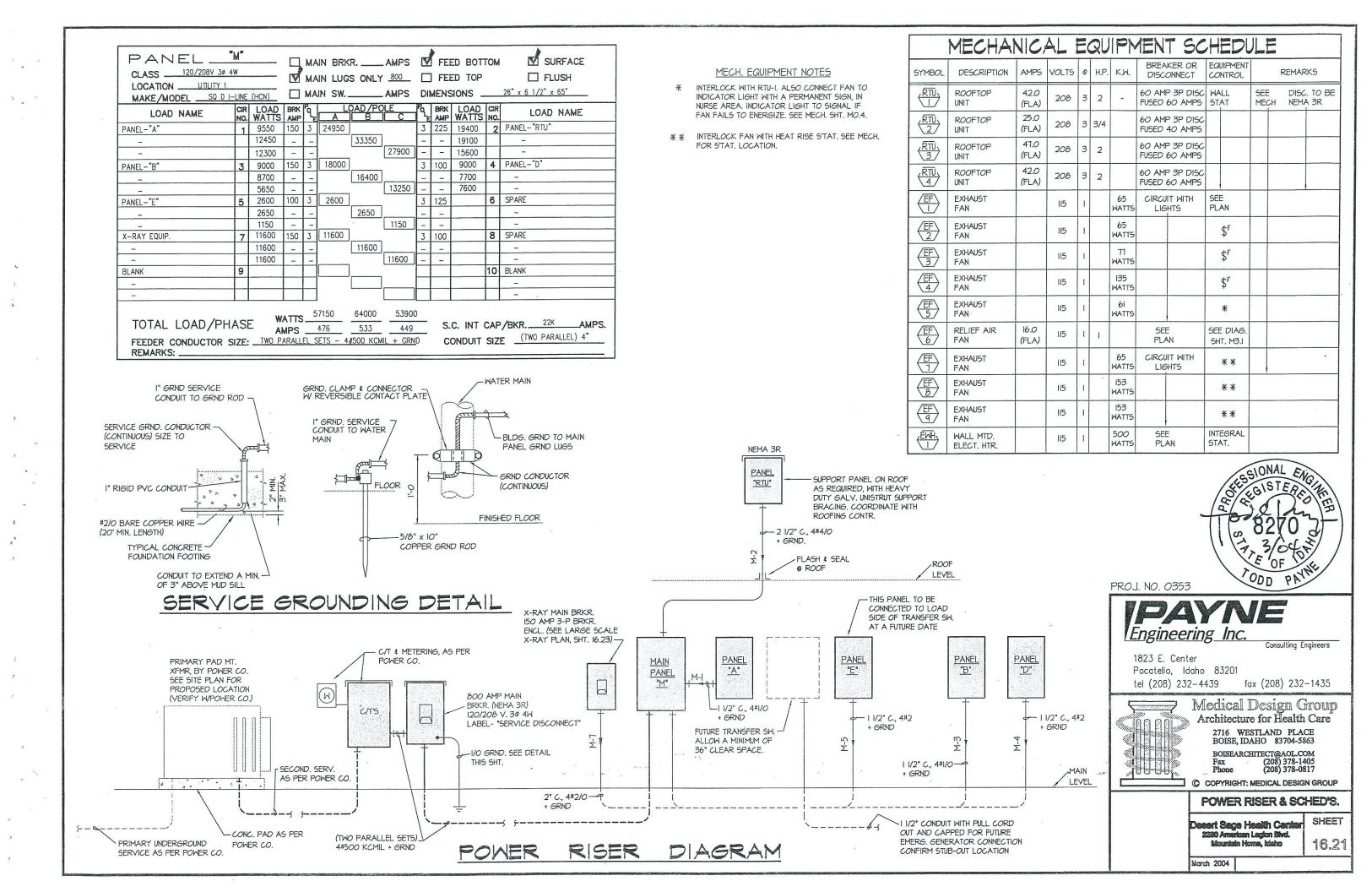
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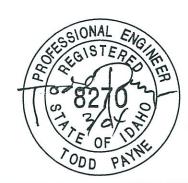


	PANEL "RTU" CLASS120/208V 30 4W						AMPS		FEE	D BOT	OTTOM SURFACE		
	W		V	MA	IN LUG	S ONLY	225	V	FEE	D TOP		™ FLU	JSH
LOCATIONROOF MAKE/MODEL _SQ D NOO	D (N	EMA 3R)		MA	IN SW.		. AMPS	DII	MENS	IONS _		20"x23"x5 3/4"	
LOAD NAME	CIR NO.	LOAD	BRK AMP		LA	OAD/PO	LE C	٩		LOAD WATTS	CIR NO.	LOAD	NAME
OUTLET ON ROOF	1	200	20	1	5900			3	60	5600	2	RTU-3	
EF-6	3	1800	30			7400		-	-	5600	4	-	
SPARE	5		20	П			5600	-	-	5600	6	_	
RTU-1	7	5000	60	3	10000			3	60	5000	8	RTU-4	
-	9	5000	-	-		10000		-	-	5000	10		
-	11	5000	-	-			10000	_	-	5000	12		
RTU-2	13	2800	40	3	3500			3	50		14	SPARE	
-	15	2800	-	-		3500		-	-		16	-	
_	17	2800	-	-				_	-		18	=	
BLANK	19										20	BLANK	
TOTAL LOAD/PH FEEDER CONDUCTOR S REMARKS:(NEMA_3R	E W / AM	ATTS MPS + GR	S_1 RND	9400	20900	15600)	S.	C. INT	CAP	P/BKR. 10K E 2 1/2"	AMPS.	

	B "			MA	IN BRK	R	AMPS		l FE	ED BOT	ГОМ	SURFACE
CLASS120/208V 3Ø 4	W											☐ FLUSH
LOCATIONUTILITY 1												
MAKE/MODELSQ D N	QOD											20"x39"x5 3/4"
LOAD NAME	CIR NO.		BRK AMP	٩	L A	OAD/PC	LE C	ß	BRK AMP	LOAD WATTS		
OUTSIDE BLDG. LTS VIA T	1	1200	30	1	-		•	1	20	600	2	OUTLETS
	3	1700				_		Щ		1000	4	
PANORAMA MACHINE	5	800	20				1600			800	6	÷ .
SPĄRE	7				600		10	Ш		600	8	
	9					1200		Щ		1200	10	
*	111					,	1200			1200	12	
WALL HTR. (2) EWH-1	13	1000		Ш	1600		10	Ц		600	14	
OUTLETS	15	600		Ш		1400		Щ		800	16	
	17	650		Ш		,	1450	Ш		800	18	
+	19	1200			2200			Ш		1000	20	
DENTAL AREA OUTLETS	21	600				1800		Щ		1200	22	
	23	400					1400			1000	24	
STERIL AREA OUTLETS	25	800			1800			Ш		1000	26	
SPARE	27					800		Ш		800	28	
	29						800	Ш		800	30	
	31				1000			Ш		1000	32	
	33		1	11		800		Щ		800	34	ELECT. WTR. COOLER
SPARE	35		20	2				Ш			36	SPARE
	37		-	-		<u> </u>		Ш			38	
SPARE	39		30	2				Щ			40	
-	41		-	-							42	
TOTAL LOAD/PH		L A	MPS	_	9000 75	8700 73	6450 54) 	s	.C. INT	CAF SIZ	P/BKR. 10K AMPS.
REMARKS:	•											

MAKE/MODEL SQ D				MA	IN SW.		AMPS	DI	MENS	SIONS _		20"x39">	5 3/4"	
LOAD NAME		LOAD	BRK	٩	A	OAD/PC	LE C	٩	BRK	LOAD WATTS	CIR NO.		LOAD	NAME
IGHTING	1	1200	20	1	1600			1	20	400		OUTLET	S	
	3	600				1200		П		600	4			
	5	900					1900			1000	6			
	7	1600			2600		<i>3</i>	П		1000	8			
	9	1100				1800		П		700	10			EX. FAN
	11	750					1950	П		1200	12			
K-RAY RM. LIGHTS	13	350			1550					1200	14			
CRAWL SPACE LIGHTS	15	1400				2400		Ш		1000	16			X-RAY RM.
CRAWL SPACE OUTLETS	17	600					1600			1000	18			
K-RAY EQUIPMENT	19	1000			1800			Ш		800	20			
CLOTHS WASHER	21	1200		Ш		2000				800	22			
WALL HTRS. (2) EWH-1	23	1000		Ш		1	2000			1000	24			
DUTĻETS	25	800		Ш	1400					600	26			EX. FAN
	27	1000		Ш		1800		Ш	Ш	800	28			BREAK RM.
DISHWASHER	29	1200		Ш		i	2000	Ш		800	30			
SPARE	31			Ш	1000			Ш		1000	32		, ,	MICRO WAVE
	33			Ш		1000		Ш		1000	34			EX. FAN
	35			Ш		r	600	1		600	36	<u> </u>		MEDS RM.
•	37		1	+				3	20			SPARE		
CLOTHS DRYER	39	2250	30	2		2250		-	-		40			
	41	2250	-	-			2250	-	-		42	_		

F	PANEL_	E"		Д	MA	IN BRK	R	AMPS		FE	ED BOT	TOM	SURFACE
	CLASS120/208V 3ø 4	W		v	MA	IN LUG	S ONLY	100	V	FE	ED TOP		☐ FLUSH
	LOCATIONUTILITY 1	000			MA	IN SW.		AMPS	DI	MEN:	SIONS _		20"x39"x5 3/4"
_	MAKE/MODELSQ D N		1015	A 100 PM			OAD/PC		10				
	LOAD NAME	CIR NO.		BRK AMP	٩	A	B	C	٩	BRK	LOAD WATTS	NO.	LOAD NAME
LIG	HŢING	1	500	20	1	800			1	2,0	300	2	PHONE BOARD
		3	450		П		1450				1000	4	GENERAL OUTLETS
		5	750	П	П			1150	П		400	6	NURSES STATION OUTLETS
		7	1000		П	1800					800	8	EXAM RM, OUTLETS
SP	ARE	9		П	П		1200				1200	10	
		11			П							12	SPARE
		13			П						2	14	
		15										16	
		17		-	1				1	1		18	•
BL	ANK	19										20	BLANK
		21										22	
		23										24	4
		25										26	
		27					1,000					28	
		29										30	
			w	ATTS		2600	2650	1150					
	TOTAL LOAD/PH	AS	E Al	MPS		22	22	10	_	S	.C. INT	CAP	P/BKR. 10K AMPS.
	FEEDER CONDUCTOR SIZE: 4#2 REMARKS: PANEL LABEL TO BE RED)					C	ONDUIT	SIZ	E1 1/2"



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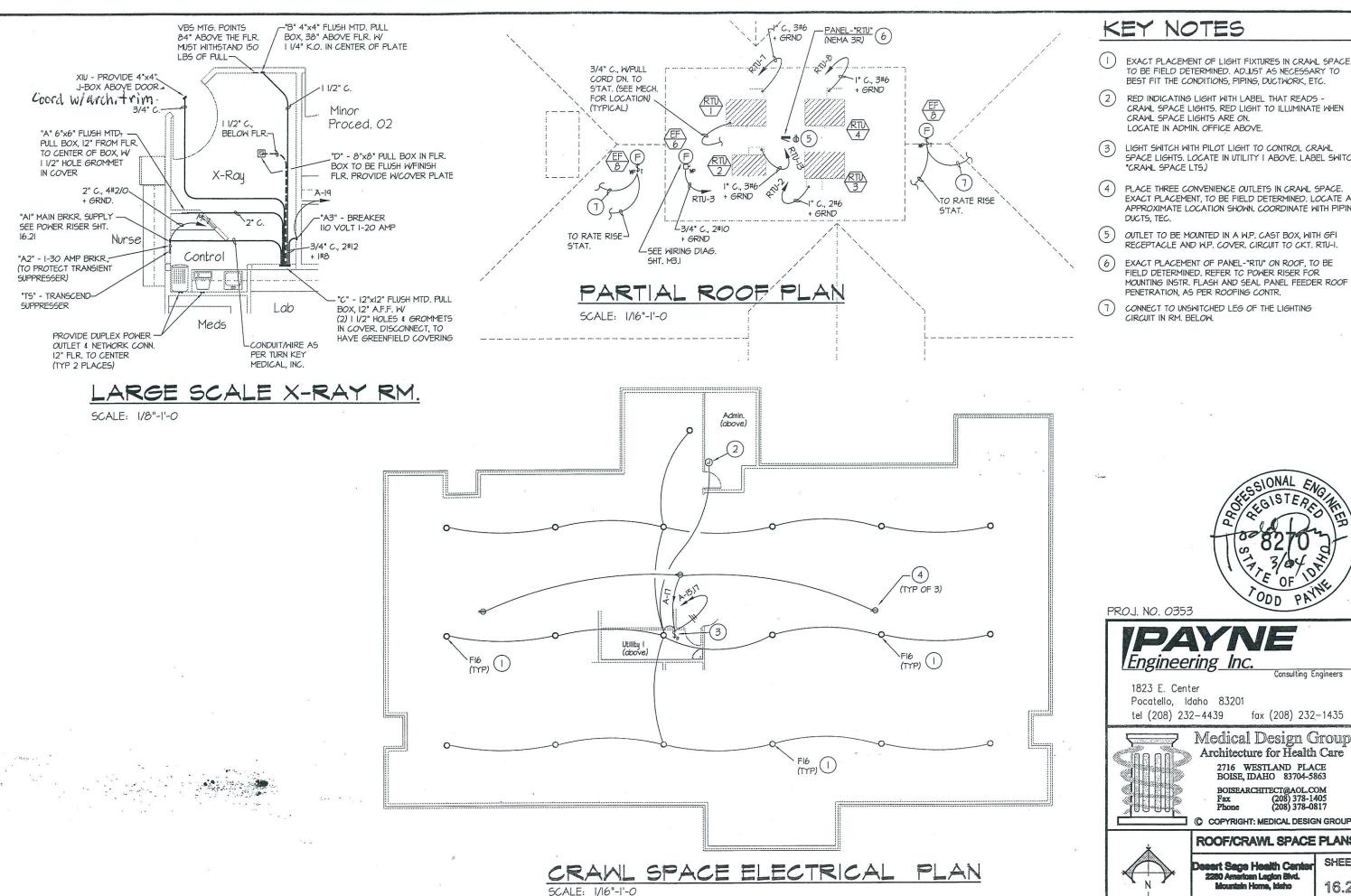
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ELECT. PANEL SCHED'S.

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- EXACT PLACEMENT OF LIGHT FIXTURES IN CRAWL SPACE TO BE FIELD DETERMINED, ADJUST AS NECESSARY TO
- CRAML SPACE LIGHTS. RED LIGHT TO ILLUMINATE WHEN CRAML SPACE LIGHTS ARE ON.
- SPACE LIGHTS. LOCATE IN UTILITY I ABOVE. LABEL SWITCH
- PLACE THREE CONVENIENCE OUTLETS IN CRAWL SPACE. EXACT PLACEMENT, TO BE FIELD DETERMINED. LOCATE AT APPROXIMATE LOCATION SHOWN. COORDINATE WITH PIPING,
- OUTLET TO BE MOUNTED IN A W.P. CAST BOX, WITH GFI RECEPTACLE AND W.P. COVER, CIRCUIT TO CKT, RTU-I.
- FIELD DETERMINED. REFER TO POWER RISER FOR MOUNTING INSTR. FLASH AND SEAL PANEL FEEDER ROOF



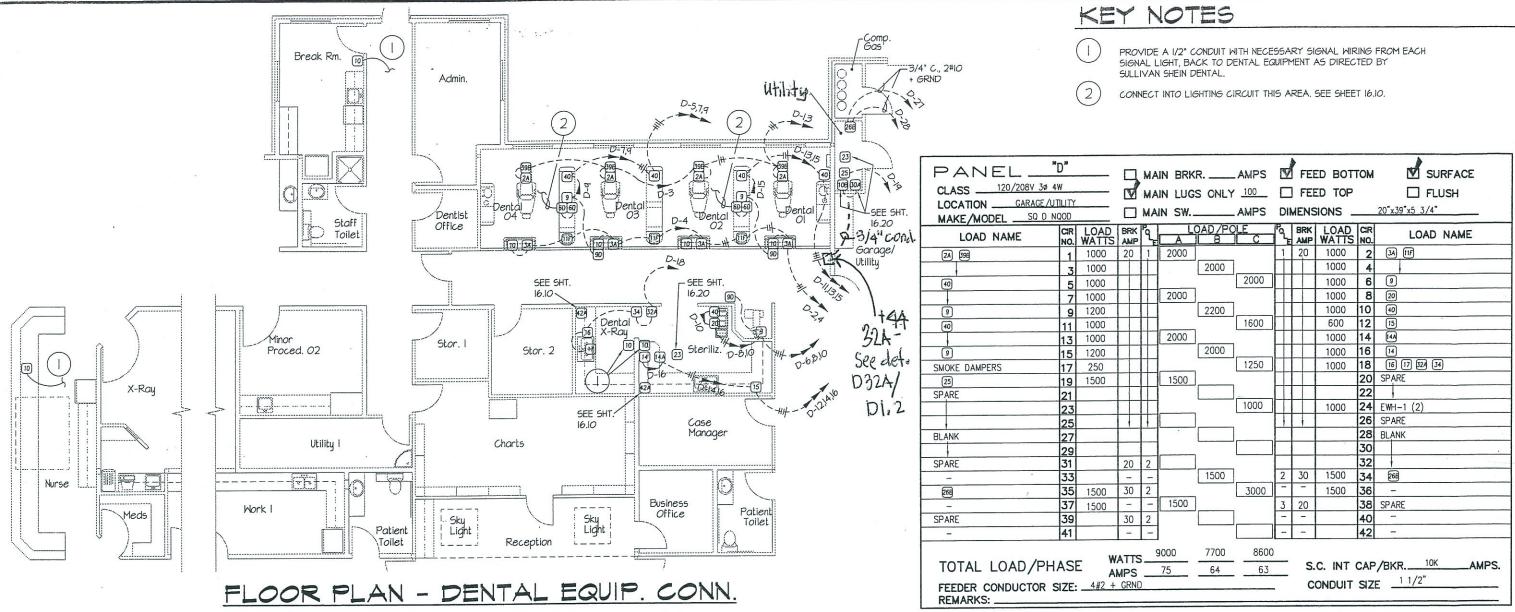
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ROOF/CRAWL SPACE PLANS

16.23



SCALE: 3/32"

20

			D	ENTAL	EQUIF	MENT	LEGEND			
SYMBOL	DESCRIPTION	ELECTRICAL REQUIREMENTS	DEDICATED CIRCUIT	SULLIVAN-SCHEI STANDARD DE		SYMBOL	DESCRIPTION	ELECTRICAL REQUIREMENTS	DEDICATED CIRCUIT	SULL ST/
(2A)	UTILITY CENTER	115V 20A		D-2A		23	EXHAUST FAN	115V 15A		
(3A)	UTILITY CENTER	115V 20A		D-3A		25	AIR COMPRESSOR	SEE SPECS.	1	
(6D)	DENTAL LIGHT	115Y 3A		u :=		268	VACUUM SYSTEM	2-230V 30A	1	
9	X-RAY	115Y 20A	1	2 20		30A	WATER SOLENOID	115V OR 24V		
9D .	X-RAY REMOTE BUTTON	-		D-9D		32A	REMOTE PANEL	-		
[10]	SIGNAL LIGHT	115V 15A		D-10		34	NITROUS OXIDE ALARM	115V 1.5A		
[10B]	POWER OUTLET	-	(SEE SHEET 16	20)-		[39B]	CHAIR-MOUNTED MONITOR	115Y 15A		
[11F]	CENTER CABINET	II5V		. 1-		40	COMPUTER CIRCUIT	115V 20A	1	، عدر
[14]	STERILIZER .	115V 15A	1	. D-14		42A	TASK LIGHTING	II5V	(SEE SHEET.	16.10)
14A	STERILIZER	115V 20A	1	D-14A		NOTES				
[15]	ULTRASONIC CLEANER	115V 15A	1	D-15	1		<u>2:</u> A SULLIVAN-SCHEIN REPRESEN	ITATIVE WILL SPOT A	ALL EXACT EQUI	PMENT L
16	MODEL TRIMMER 115V			D-16				HEIGHTS, ROUGH-IN BOXES, SIZES, ETC, TO I		TO BE
[17]				_		3.	REFER TO SULLIVAN-SCHEIN S			FORMAT

CT EQUIPMENT LOCATIONS ON THE JOB.

SULLIVAN-SCHEIN DENTA STANDARD DETAIL NO.

D-25

D-26B

D-30A

D-32A

D-34

- ES. ETC. TO BE COORDINATED AND
- PFUL INFORMATION ON EQUIPMENT WHERE DETAILS ARE AVAILABLE.

PROJ. NO. 0353

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16.24

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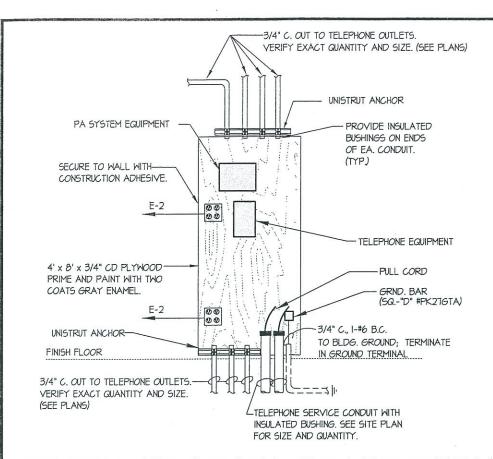
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DENTAL EQUIP. PLAN

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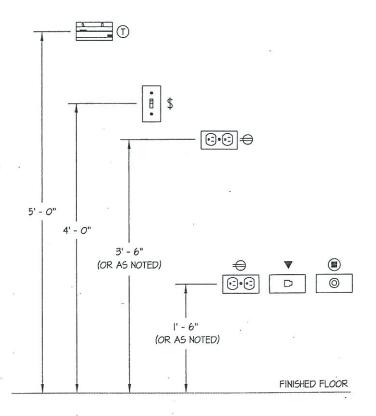


TELEPHONE / DATA BOARD DETAIL

NO SCALE

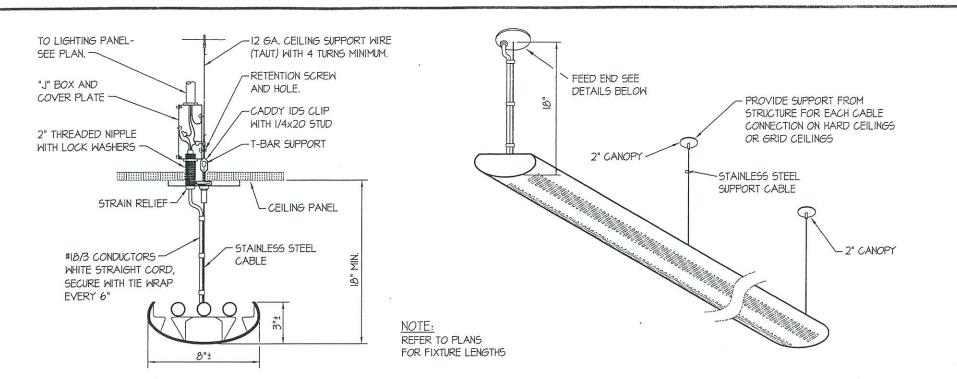
NOTES:

- * ALL MOUNTING HEIGHTS TYPICAL UNLESS NOTED OTHERWISE.
- COORDINATE OUTLET HEIGHTS WITH ARCHITECTS MILLWORK DWGS. TO INSURE THAT OUTLETS WILL NOT FALL BEHIND CABINETS, BACKSPLASHES, OR INTERFERE WITH WAINSCOTING, ETC.
- ALL SWITCHES AND THERMOSTATS TO BE MOUNTED AS CLOSE TO DOOR JAMBS AS POSSIBLE. COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS AND DETAILS.
 - THERMOSTAT OR MECHANICAL SHITCH
 - LIGHT SWITCH
 - CONVENIENCE OUTLET
 - TELEPHONE / DATA OUTLET
 - T.V. OUTLET



TYPICAL DEVICE MOUNTING HEIGHTS DIAGRAM

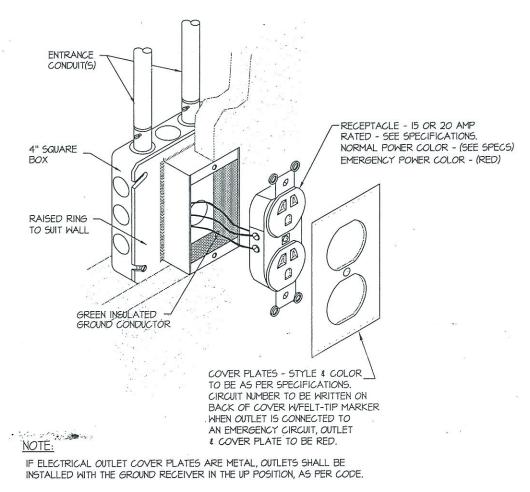
NO SCALE



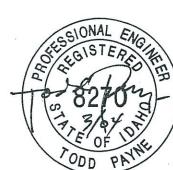
FIS PENDANT LIGHT FIXTURE MOUNTING DETAIL

NO SCALE

NO SCALE



RECEPTACLE MOUNTING DETAIL



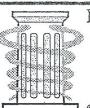
PROJ. NO. 0353

Engineering Inc.

Consulting Engineers

1823 E. Center Pocatello, Idaho 83201

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ELECTRICAL DETAILS

Sesert Sage Health Canter 2200 American Lagion Blvd.

March 2004

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8. EXECUTION

Raceway Installation: Separate underground conduits in a common trench 4" minimum horizontally, 12" minimum from other utility lines. Minimum conduit depth shall be 24". Coordinate conduit installation with pipes, steel and ducts installed by other trades. Install conduit runs exposed to view parallel or at right angles to structural members, walls or building lines. Support conduit with one—hole malleable factory made pipe straps, fastened with stainless steel screws.

9. OPERATING AND ADJUSTING

The owner reserves the right to operate any systems of equipment prior to final completion and acceptance of the work. Such preliminary operation shall not be construed as an acceptance of any work.

Each piece of equipment and all of the systems shall be adjusted to insure proper functioning and shall be left in first class operating condition.

10. CUTTING AND PATCHING

Do all drilling and cutting as necessary for installation of equipment. Do cutting and drilling of structure only with prior approval of the owner. Where cutting and patching of work is necessary, use same materials workmanship and finish neatly, match all surrounding work.

11. CONDUIT

Provide EMT conduit and install in strict

accordance with Electrical Code and for all systems in building. In damp or wet locations, use EMT conduit with appropriate fittings. Conduits underground or in slab shall be Sch. 40 PVC; install a galvanized steel elbow where these conduits emerge above grade or slab and wrap to retard deterioration. All conduits without conductors, installed with #12 TW pull wire. Verify sizes of all underground conduits not indicated.

12. OUTLET BOXES AND BOX EXTENSION

Provide 4" square steel boxes with mudring as required.

13. CONDUCTORS

Type THWN or THHN copper wire insulated for 600V. Smallest wire shall be #12 awg unless noted. Use "Ideal Yellow" pulling compound for all pulls. Use Scotchlock connectors for all splices in #12 wire and taped bolted pressure connectors for larger wire. All wiring shall be copper.

14 GROUNDING

Provide and install service grounding per NEC and as detailed on the drawings. Provide and install a green equipment ground conductor in all raceways. Conduit only ground is not acceptable.

Grounding shall conform to Article 517 in the NEC, as required.

15 DEVICES

Switches: specification grade, quiet type, color to be white, (nylon) 20 amps. (Such as P&S 20AC1 X) provide 3—way, 4—way and pilot light switches as indicated.

Convenience outlets: Specification grade duplex grounding type, 20 amps. at 125 volts, color white (nylon) and GFI in Code required locations. (Such as P&S 5352 X)

Special Outlets: As noted on plans.

Manufactured by P&S, Leviton, Bryant, or Hubbell.

16 DEVICE PLATES

Required for all wiring devices, outlets and similar applications. Gang covers for gang boxes. Nylon, color white Sierra "P" line or other as required.

17. LIGHTING FIXTURES

Provide all lighting fixtures complete with accessories as required for proper installation, including lamps. See notes and plans on Fixture Schedule. Substitutions shall be accompanied with copies of specified items and substitutions for comparison by engineer. Any relocation shall be approved by architect.

18. SERVICE EQUIPMENT

Panelboards: Circuit breakers and equipment shall be 42,000 AIC-minimum. All locks keyed alike and typewritten directories. All panels shall have a minimum of 36" working clearance in front of panel.

DIVISION 16 ELECTRICAL SPECIFICATIONS

1. INTEN

The Contractor shall be responsible for the installation of complete and operable systems of electrical lighting, power and receptacles etc, as indicated on the drawings and specifications, this includes furnishing all incidental items not actually shown or specified, but which are required by good practice to provide complete and functional systems.

2. SUBMITTALS

Submit material lists, data and product cut sheets for all panels, service equipment and lighting fixtures for approval and "as—built" records for this work in accordance with the supplementary and general conditions of the contract documents. No material shall be installed until final approval is given.

3 COMPLIANCE WITH CODES

All work and materials shall comply with all applicable codes, safety orders, laws, ordinances and regulations of governing authorities and other agencies having jurisdiction including regulations of the Local Fire Marshall, unless detailed as specified to a more restrictive standard or higher requirement.

4. INTERPRETATION OF DRAWINGS

The electrical drawings are essentially diagrammatic in that all provisions necessary to conform to structural, architectural, mechanical and plumbing systems cannot be shown. All installations shall be adjusted as necessary to conform and to avoid obstructions without additional cost to the owner.

All work, material and equipment called for by notes, schedules or otherwise indicated on the drawings shall be furnished and installed as though fully set forth in these specifications.

5. VISITING THE SITE

Visit the site and become acquainted with conditions to be encountered. Extra funds will not be allowed due to failure to examine the site and to include existing conditions in bid price.

6. COORDINATION WITH UTILITIES

These plans have been prepared without utility company comments. The contractor shall verify the exact requirements for the electric and telephone services with the utility company representatives and provide all work and pay all costs for complete and operating systems, as directed by the governing utilities. Power, Telephone and Cable Television.

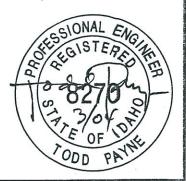
7. MATERIALS AND WORKMANSHIP

All workmanship shall be performed by skilled mechanics using the best standard practices of the trade. All materials shall, unless otherwise noted, be new and in perfect condition. All material for similar uses shall be of the same type, material and manufacture for ease of future maintenance.

All equipment shall be readily accessible for maintenance and repairs. Provide ladders or similar facilities necessary to install the work.

All materials, fixtures and equipment shall be covered or sealed upon installation so as to provide for safety and to insure that operation and appearance will be maintained after subsequent construction operations.

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SHEET

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ELECTRICAL SPEC.

Decert Sage Health Conter 2280 American Legion Sivid. Mountain Home, Idaho

March 2004

19. CLEAN-UP

Upon completion of the work, prior to final inspection, thoroughly clean all exposed fixtures, trim and equipment, and leave the entire installation in neat, clean and usable condition. Remove all cement, paint, grease, oil and other foreign substances.

20. TES

Test all wire for shorts, opens, grounds, or other defects. Correct any defective work. Demonstrate continuous satisfactory operation of all electrical equipment.

21. GUARANTEE

Prior to final acceptance of the project, deliver to the owner a written one year guarantee on all workmanship, materials and equipment and agree to repair or replace all such defective items promptly that may occur during this period, including repair or replacement of the premises that may be damaged due to faulty work and materials furnished under this section.

			Permit Number
2001 I COMche	ck-EZ Software Version 2		Checked By/Date
Section	1: Project Informati	ion	
Project Name: Designer/Contractor: Document Author: Notes:		Desert Sage Health Center Payne Engineering Inc. Dennis Blanchard February 10, 2004	
Section	2: General Informa	tion	
Building	Use Description by:	Whole Building Type	
Building	Type and Clinical Care	·	Floor Area 8557
Project D Nev	Description (check one): w Construction Additi	onAlteration Unconditioned Sh	ell (File Affidavit)
Project D Nev Section Bldg. Dept. Use	Description (check one): w Construction Addition a 3: Requirements Cl		ell (File Affidavit)
Project D Nev Section Bldg. Dept. Use	Description (check one): v Construction Addition a 3: Requirements Cl	necklist ust be less than or equal to total allowed	watts
Project D Nev Section Bldg. Dept. Use	Description (check one): W Construction Addition 13: Requirements Club Interior Lighting 1. Total actual watts many Allowed Wat 13691 Exterior Lighting 2. Efficacy greater than Exceptions:	ust be less than or equal to total allowed ts Actual Watts Complies 10211 YES	watts (Y/N)
Project Devices Dept. Usc	Interior Lighting 1. Total actual watts me Allowed Wat 13691 Exterior Lighting 2. Efficacy greater than Exceptions: Specialized lighting low-voltage landsc Controls, Switching, an 3. Independent controls	necklist ist be less than or equal to total allowed to the less than or equal to total allowed to the second seco	watts (Y/N) ngs; signage; safety or security lightin
Project Devices New	Interior Lighting 1. Total actual watts managements 2. Efficacy greater than Exceptions: Specialized lighting low-voltage landsc Controls, Switching, ard Independent controls Exception: Areas tile Master switch at entrols Two switches or dim Exceptions: Only one luminair	ast be less than or equal to total allowed to the standard watts and the standard watts are standard watts and standard watts are standard watts and wiring to for each space (switch/occupancy sensonat must be continuously lighted by to hotel/motel guest room, umer in each space to provide uniform light ein space; An occupant-sensing device of the standard watter w	watts (Y/N) ngs; signage; safety or security lighting r). tht reduction capability. controls the area;

[] 7. Tandem wired one-lamp and three-lamp ballasted luminaires. Exceptions: Electronic high-frequency ballasts; Luminaires not on same switch

Section 4: Compliance Statement

The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2001 IECC requirements in COMcheck-EZ Version 2.4 Release 2b and to comply with the mandatory

requirements in the Requirements Checklist.

Lighting Application Worksheet **2001 IECC**

COMcheck-EZ Software Version 2.4 Release 2b

Section 1: Allowed Lighting Power Calculation

A	В	C Total	D
Building Type	Floor Area (ft2)	Allowed Watts (watts/ft2)	Allowed Watts (B x C)
Medical and Clinical Care	8557	1.6	13691
	Total A	13691	

Section 2: Actual Lighting Power Calculation

A	B	C Lamps/	D # of	E Fixture	F
Fixture ID	Fixture Description / Lamp Description / Wattage Per Lamp / Ballast	Lamps/ Fixture	Fixtures	Watt.	(D x E)
ш	Danip Description? Wattage Fer Battley? Burtase	Interes	111111111		
F1	2 lamp lay-in fluor. / 48" T8 32W / Electronic	2.	4	61	244
F2/F2A	3 lamp lay-in fluor. / 48" T8 32W / Electronic	3	36	95	3420
F3	4 lamp fluor. wrap / 48" T8 32W / Electronic	4	4	112	448
F4	2 lamp fluor. wrap / 48" T8 32W / Electronic	2	4	61	244
F5	2 lamp strip light / 48" T8 32W / Electronic	2	10	61	610
F6	interior wall sconce / Triple 4-pin 26W / Electronic	1	13	26	338
F10	under counter light / 48" T8 32W / Electronic	1	19	37	703
F11	interior recessed can / Triple 4-pin 26W / Electronic	1	I	26	26
F12	interior recessed can / Incandescent 75W	1	10	75	750
F13	2 lamp linear fluor. / 48" T8 32W / Electronic	2	8	61	488
F14	low voltage trac light / Incandescent 50W	1	10	50	500
F15	2 lamp recessed fluor. / 48" T8 32W / Electronic	2	40	61	2440

Total Actual Watts = 10211

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Actual Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 13691 Total Actual Watts = 10211 Project Compliance = 3480

Lighting PASSES: Design 25% better than code



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ELECT. COM-CHECK REPORT

Desert Sage Health Center