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U.S. DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

JOHN A. VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER
ENVIRONMENTAL ENGINEERING DIVISION, DTS-33
55 BROADWAY, KENDALL SQUARE
CAMBRIDGE, MASSACHUSETTS 02142

MILLWORK WEST SITE IMPROVEMENTS

ASBESTOS REMOVAL PROJECT
LIBBY, MONTANA
MAY 2002
(REVISION 1 - JUNE 2002)

LIST OF DRAWINGS

SHEET NO.	TITLE
C-1	SITE PLAN
A-1	FLOOR PLANS
A/P-1	TOILET ROOM PLAN, ARCHITECTURAL & PLUMBING DETAILS
S-1	STRUCTURAL - BUILDING #2 - NEW SLAB PLAN, SECTIONS, DETAILS & NOTES
E-1	ELECTRICAL PLAN

NOTES

1. THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS HAVE BEEN PREPARED FOR THE GOVERNMENT'S USE IN PROVIDING A GENERAL DESCRIPTION OF THE WORK TO BE COMPLETED BY THE GOVERNMENT'S REMOVAL CONTRACTOR AT BUILDING NO. 1 AND BUILDING NO. 2 ON HIGHWAY 2 IN LIBBY, MONTANA.

2. THE WORK DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS WILL BE CONSTRUCTED IN TWO WOOD FRAME METAL CLAD BUILDINGS ORIGINALLY INTENDED TO SERVE AS A TEMPORARY LOCATION FOR THE MILLWORK WEST LUMBER AND BUILDING MATERIALS BUSINESS.

3. THE WORK DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS IS NOT INTENDED TO BE PUBLICLY BID.

4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE PROVIDED TO THE GOVERNMENT'S REMOVAL CONTRACTOR FOR COST ESTIMATES, CONSTRUCTION SCHEDULING, OBTAINING LOCAL SUBCONTRACTORS APPROPRIATELY LICENSED TO PERFORM SPECIALTY CONSTRUCTION (PLUMBER, ELECTRICIAN, ETC.), OBTAINING NECESSARY LOCAL PERMITS (REST ROOM PERMIT) AND COMPLETING THE WORK.

5. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. THE GOVERNMENT'S REMOVAL CONTRACTOR IS REQUIRED TO VERIFY ALL DIMENSIONS PRIOR TO STARTING THE WORK.

6. NO PROPERTY LINE OR TOPOGRAPHICAL SURVEYS WERE AVAILABLE TO REFERENCE FOR PREPARATION OF THE DRAWINGS.

7. NO INVESTIGATIONS HAVE BEEN MADE WITH RESPECT TO THE CURRENT USE OR POTENTIAL USE OF THE EXISTING BUILDINGS.

8. EVALUATION OF THE EXISTING BUILDINGS WITH RESPECT TO STRUCTURAL INTEGRITY, BUILDING CODE COMPLIANCE, EXISTING CONDITION WERE NOT INCLUDED IN THE DESIGN SCOPE OF WORK.

9. CDM'S SCOPE OF WORK FOR EXISTING BUILDING NO. 2 WAS LIMITED TO DESIGN OF A REINFORCED CONCRETE SLAB TO BE INSTALLED BY THE GOVERNMENT'S REMOVAL CONTRACTOR, DESIGN OF A SINGLE UNISEX, HANDICAPPED ACCESSIBLE REST ROOM MEETING THE REQUIREMENTS OF THE ANSI ACCESSIBILITY CODE, 1998 EDITION, REST ROOM WATER SERVICE, REST ROOM ELECTRIC SERVICE AND PUMPED DISCHARGE OF ALL WASTE FROM THE PROPOSED REST ROOM TO AN EXISTING PERMITTED SEPTIC TANK LOCATED ON THE PROPERTY APPROXIMATELY 300 FT. FROM BUILDING NO. 2.

10. CDM'S SCOPE OF WORK FOR EXISTING BUILDING NO. 1 WAS LIMITED TO DESIGN OF ASPHALT PAVEMENT TO BE INSTALLED BY THE GOVERNMENT'S REMOVAL CONTRACTOR OVER APPROXIMATELY 50% OF THE INTERIOR FLOOR AREA.

CONTRACTOR SUPPORT PROVIDED BY:

CDM Federal Programs Corporation
a Subsidiary of Camp Dresser & McKee Inc.

consulting
engineering
construction
operations

ONE CAMBRIDGE PLACE
50 HAMPSHIRE STREET
CAMBRIDGE, MASSACHUSETTS 02139

MINIMUM STANDARDS - ON-SITE SUBSURFACE WASTEWATER TREATMENT:

1. ALL COMPONENTS, APPURTENANCES, AND CONSTRUCTION PRACTICES SHALL CONFORM TO MONTANA DEQ STANDARDS (CHAPTER 36, "SUBDIVISIONS/ON-SITE SUBSURFACE WASTEWATER TREATMENT", SUB-CHAPTER 9).

2. MINIMUM SETBACKS (FROM SEPTIC TANK):

BUILDINGS	10-FT.
PROPERTY LINES	10-FT.
LAKES, STREAMS, AND PONDS	50-FT.

3. ABSORPTION TRENCHES MUST BE LOCATED AT LEAST 100-FT. FROM A POTABLE WATER SUPPLY, AND BE A MINIMUM OF 100-FT. FROM THE EXTENT OF THE 100-YEAR FLOOD LEVEL OF ANY RIVER, STREAM, OR OTHER WATERCOURSE, UNLESS WAIVED BY THE REVIEWING AUTHORITY. ABSORPTION TRENCHES MUST BE A MINIMUM OF 10-FT. FROM WATER LINES. ABSORPTION TRENCHES MUST ALSO BE LOCATED SO AS TO MAXIMIZE THE VERTICAL SEPARATION DISTANCE TO THE SEASONAL HIGH GROUNDWATER LEVEL.

ON-SITE SANITARY DISPOSAL SYSTEM NOTES:

1. THE PROPOSED 1-1/2-IN. PVC FORCEMAIN SHALL CROSS OVER THE EXISTING WATER MAIN APPROXIMATELY AS SHOWN. THE FORCEMAIN CROSSING SHALL BE CONSTRUCTED IN CONFORMANCE WITH SECTION 8.6.3 AND 8.6.5 OF "STANDARDS FOR WATER WORKS" IN MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY, DEQ-1. THE FORCEMAIN SHALL BE CONSTRUCTED TRUE TO LINE AND GRADE TO PREVENT "SAGS OR "BELLIES" IN THE LINE. THE FORCEMAIN SHALL BE CONSTRUCTED SUCH THAT THE MIDPOINT OF ONE FULL LENGTH OF 1-1/2-IN. PVC SHALL BE ALIGNED OVER THE WATER MAIN, SUCH THAT THE DISTANCE FROM THE WATER MAIN TO THE JOINTS IN THE FORCEMAIN IS MAXIMIZED. THE VERTICAL CLEARANCE BETWEEN THE FORCEMAIN AND THE WATER MAIN SHALL BE A MINIMUM OF 18-IN. AS MEASURED FROM THE EXTERIOR WALL OF EACH PIPE. THE EXISTING WATER MAIN IS CONSIDERED TO BE LOCATED APPROXIMATELY AT A DEPTH OF 5-FT. BELOW THE GROUND SURFACE.

2. THE SEPTIC TANK AND PUMP CHAMBER STRUCTURE SHALL BE 1500-GALLON PUMP/SEPTIC TANK COMBO AS MANUFACTURED BY FLATHEAD CONCRETE PRODUCTS INC. OF KALISPELL MT. (OR APPROVED EQUAL). SEPTIC TANK SECTION SHALL HAVE A CAPACITY OF 1000 GALLONS, AND THE PUMP CHAMBER SECTION SHALL HAVE A CAPACITY OF 500 GALLONS. (OVERALL DIMENSIONS 12-FT. X 6.5-FT.) DEPTH TO INVERT = 43-IN.

3. FURNISH AND INSTALL PUMP/SEPTIC TANK COMBO (WITH ALL APPURTENANCES, INCLUDING UNION AND CHECK VALVE, FLOAT SWITCHES AND ASSEMBLIES, AND WIRING SPLICE BOX) TO PERFORM THE FOLLOWING OPERATIONS:
   - TURN PUMP ON
   - TURN PUMP OFF
   - OPERATE HIGH LIQUID LEVEL ALARM

4. PUMP CHAMBER SECTION TO BE EQUIPPED WITH 1-MYERS ME40 SUBMERSIBLE WASTEWATER PUMP (OR APPROVED EQUAL), 4/10 HP MOTOR, 1600 RPM, 115 V. PUMP SHALL BE RATED TO DELIVER 45 GPM @ 20-FT. TDH WITH 2-IN. DISCHARGE VIA FORCEMAIN TO THE EXISTING SANITARY DISPOSAL SYSTEM. PUMP SHALL BE LOCATED BENEATH ACCESS COVER FOR EASE OF ACCESS AND REMOVAL FOR INSPECTIONS, REPAIRS AND MAINTENANCE.

5. NO SOIL OBSERVATIONS OR TESTING WAS PERFORMED TO ASSESS THE FUNCTIONALITY OF THE EXISTING SOIL ABSORPTION SYSTEM OR THE ACCEPTANCE RATE OF THE ADJACENT SUBSURFACE SOILS. PRELIMINARY APPROVAL HAS BEEN GIVEN BY THE MONTANA DEQ PERMITTING & COMPLIANCE DIVISION TO CONNECT THE NEW BUILDING (BLDG. NO. 2) TO THE EXISTING ON-SITE SANITARY DISPOSAL SYSTEM.

6. BY INDICATING PRELIMINARY APPROVAL, IT IS PRESUMED THAT THE MONTANA DEQ APPROVES OF THE RE-USE OF THE EXISTING ABSORPTION SYSTEM AND IS IN CONFORMANCE WITH THE MINIMUM STANDARDS REFERENCED ABOVE AND ALL OF THE REQUIREMENTS LISTED IN CHAPTER 36, "SUBDIVISIONS/ON-SITE SUBSURFACE WASTEWATER TREATMENT, SUB-CHAPTER 9.

7. ALL INSTALLATION WORK RELATED TO THE PUMP/SEPTIC TANK, NEW PIPING, AND CONNECTIONS TO THE BUILDING AND EXISTING DISTRIBUTION BOX SHALL BE PERFORMED BY A LICENSED INSTALLER IN LINCOLN COUNTY, OR BY A PROPERTY OWNER CAPABLE OF PERFORMING THE WORK.

8. CONSTRUCT 4-IN. PVC VENT AT EXISTING SEPTIC TANK TO ASSIST IN PUMP FUNCTION.

GENERAL NOTES:

1. LOCATION OF EXISTING STRUCTURES, UTILITIES, EASEMENTS, AND PROPERTY BOUNDARIES IS APPROXIMATE. SAID INFORMATION HAS BEEN COMPILED FROM AVAILABLE RECORD INFORMATION, A VISUAL SITE INSPECTION, AND SKETCHES FOR GENERAL LAYOUT PURPOSES ONLY. A SURVEY TO DEFINE TOPOGRAPHIC, UTILITY OR BOUNDARY INFORMATION WAS NOT PERFORMED FOR THE PREPARATION OF THIS SITE STUDY PLAN. NO WARRANTEE AS TO THE ACCURACY OF SAID INFORMATION IS MADE, OR IMPLIED BY CDM.

2. THE PURPOSE OF THIS PLAN IS TO PROVIDE THE GENERAL LAYOUT OF THE EXISTING BUILDINGS AND KNOWN UTILITY SERVICES FOR THE GOVERNMENT'S CONTRACTOR TO DEVELOP PLANNING LEVEL COSTS AND COMPLETE THE WORK SHOWN.

3. THE CONTRACTOR SHALL NOTIFY "U-DIG" AT 800-551-8344 AT LEAST 2 WEEKS PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL ALSO COORDINATE THE SCHEDULE OF WORK WITH THE MILLWORK WEST OWNER (MEL BURNETT), THE GOVERNMENT, PUBLIC UTILITIES, AND SUBCONTRACTORS.

4. ALL EXCAVATION WORK SHALL BE PERFORMED IN COMPLIANCE WITH OSHA REGULATIONS 29 CFR PART 1926.650 SUBPART P AND APPLICABLE FEDERAL, STATE, AND LOCAL REQUIRMENTS. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT SHALL APPLY.

5. DIMENSIONS AND DETAILS ARE APPROXIMATE AND WERE OBTAINED FROM ROUGH FIELD MEASUREMENTS (AS DESCRIBED IN NOTE #1 ABOVE) TO CONVEY THE GENERAL INTENT OF THE WORK. REMOVAL CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK.

6. THE CONTRACTOR SHALL EXCERCISE CAUTION WHEN PERFORMING WORK ON-SITE TO PREVENT DAMAGE TO EXISTING STRUCTURES, EXISTING UTILITIES, AND THE LIKE. ANY DAMAGE TO SAID BUILDINGS AND INFRASTRUCTURE SHALL BE REPAIRED TO THE SATISFACTION OF THE GOVERNMENT AT THE CONTRACTOR'S EXPENSE.

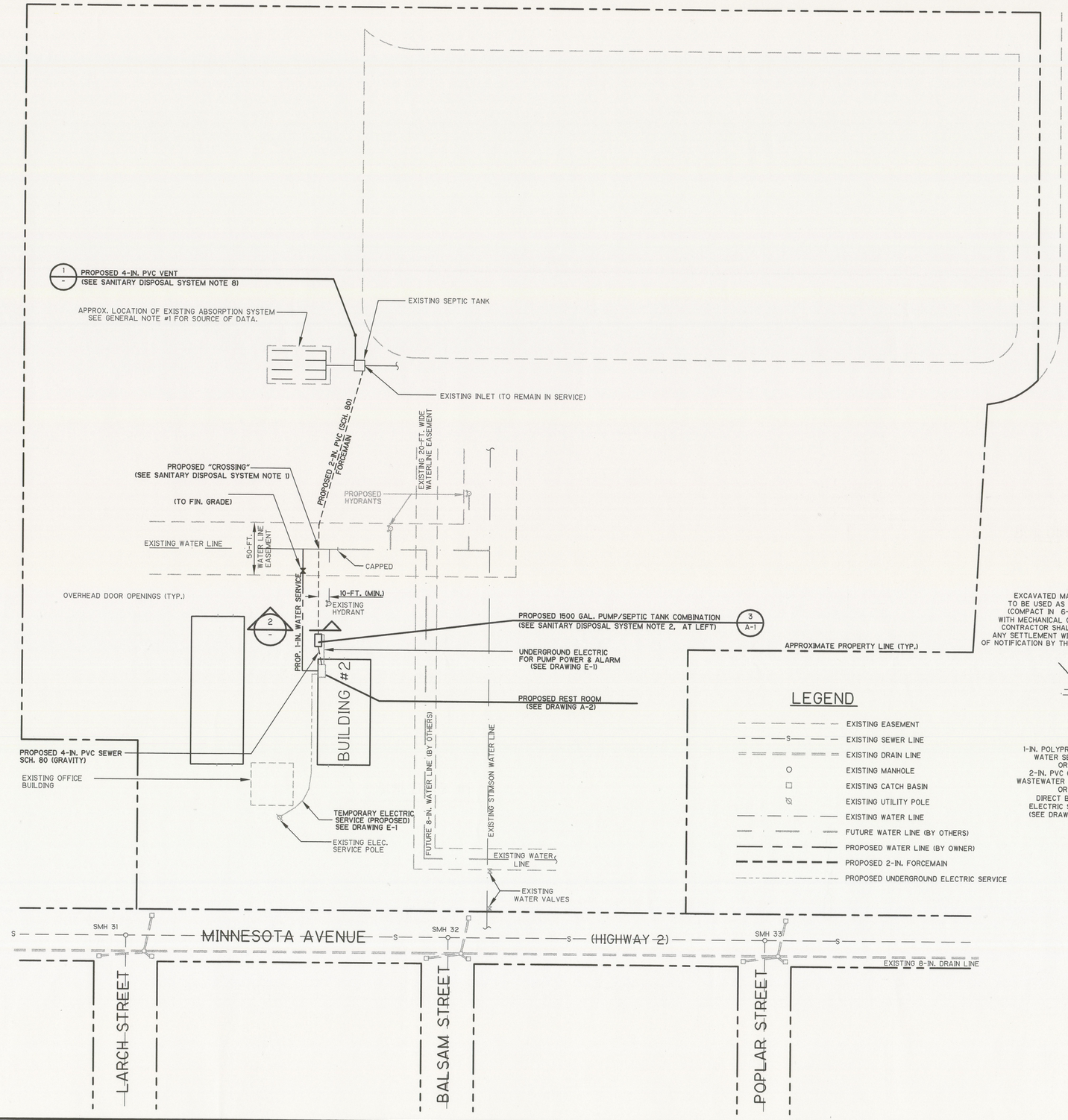
7. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR THE EXECUTION OF THE WORK (I.E. WATER CONNECTION, REST ROOM CONSTRUCTION, ETC.) AND SHALL ARRANGE FOR ALL INSPECTIONS BY LOCAL AND COUNTY OFFICIALS FOR ACCEPTANCE OF THE WORK AND FOR AUTHORITY TO BACKFILL.

8. THE CONTRACTOR SHALL ALSO TAKE MEASUREMENRTS DURING THE EXECUTION PHASE AND PREPARE A "RECORD DRAWING" OF ALL WORK PERFORMED.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.



LEGEND

- EXISTING EASEMENT
- EXISTING SEWER LINE
- EXISTING DRAIN LINE
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING UTILITY POLE
- EXISTING WATER LINE
- FUTURE WATER LINE (BY OTHERS)
- PROPOSED WATER LINE (BY OWNER)
- PROPOSED 2-IN. FORCEMAIN
- PROPOSED UNDERGROUND ELECTRIC SERVICE

CITY WATER SERVICE NOTES:

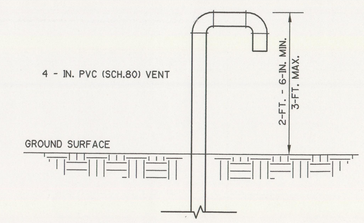
1. THE GOVERNMENT'S REMOVAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL, AND COMPACTION WORK FOR INSTALLATION OF WATER CONNECTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PREPARATION AND SUBMITTAL OF THE APPLICATION AND FOR PAYMENT OF THE TAPPING FEE ($250.00).

2. CITY OF LIBBY EMPLOYEES WILL PERFORM THE "WET-TAP" INSTALLATION WORK.

3. A "CURB STOP" (CONSISTING OF SHUTOFF AND ROAD BOX) SHALL BE INSTALLED ADJACENT TO THE CONNECTION. FINAL LOCATION OF CURB STOP TO MEET WITH THE APPROVAL OF THE LIBBY WATER DEPARTMENT.

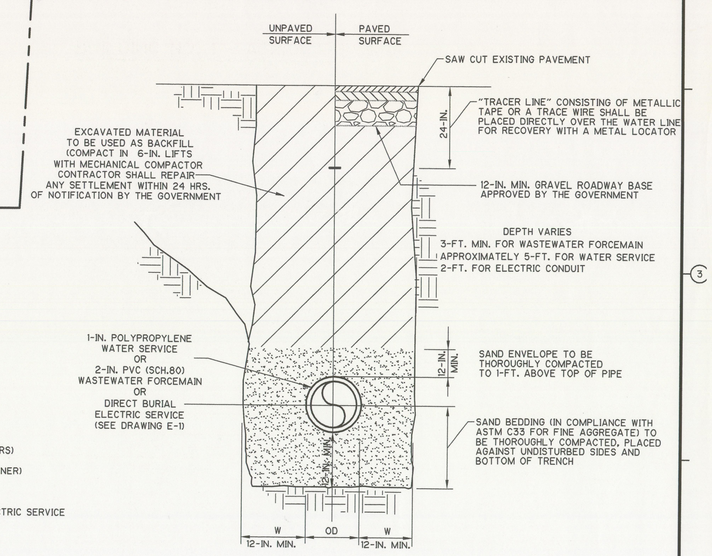
4. 1-IN. WATER SERVICE TO BE POLYPROPYLENE ("CLEARSEAL") AND SHALL BE BEDDED IN SAND AS SHOWN ON DETAIL 2 OF THIS SHEET. LINE TRACING TAPE OR WIRE SHALL BE PLACED WITHIN THE TRENCH DURING BACKFILL OPERATIONS TO IDENTIFY THE LOCATION OF THE SERVICE.

5. WATER SERVICE CONSTRUCTION WORK CANNOT COMMENCE UNTIL THE APPLICATION IS APPROVED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HRS. NOTICE TO THE LIBBY WATER DEPARTMENT FOR SCHEDULING THE WET TAP.



SEPTIC TANK VENT DETAIL (1)

NOT TO SCALE



TRENCH & BEDDING DETAIL (2)

NOT TO SCALE

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6-2002	ADR	PB	MODIFY TRENCH & BEDDING DETAIL
0	5/3/02	ADR	PB	NOT FOR CONSTRUCTION

DESIGNED BY: A. ROSCOE
DRAWN BY: A. ROSCOE
SHEET CHK'D BY: P. BOROWIEC
CROSS CHK'D BY: P. BOROWIEC
APPROVED BY:
DATE: APRIL 2002

U.S. DEPARTMENT OF TRANSPORTATION
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EPA ASBESTOS REMOVAL PROJECT

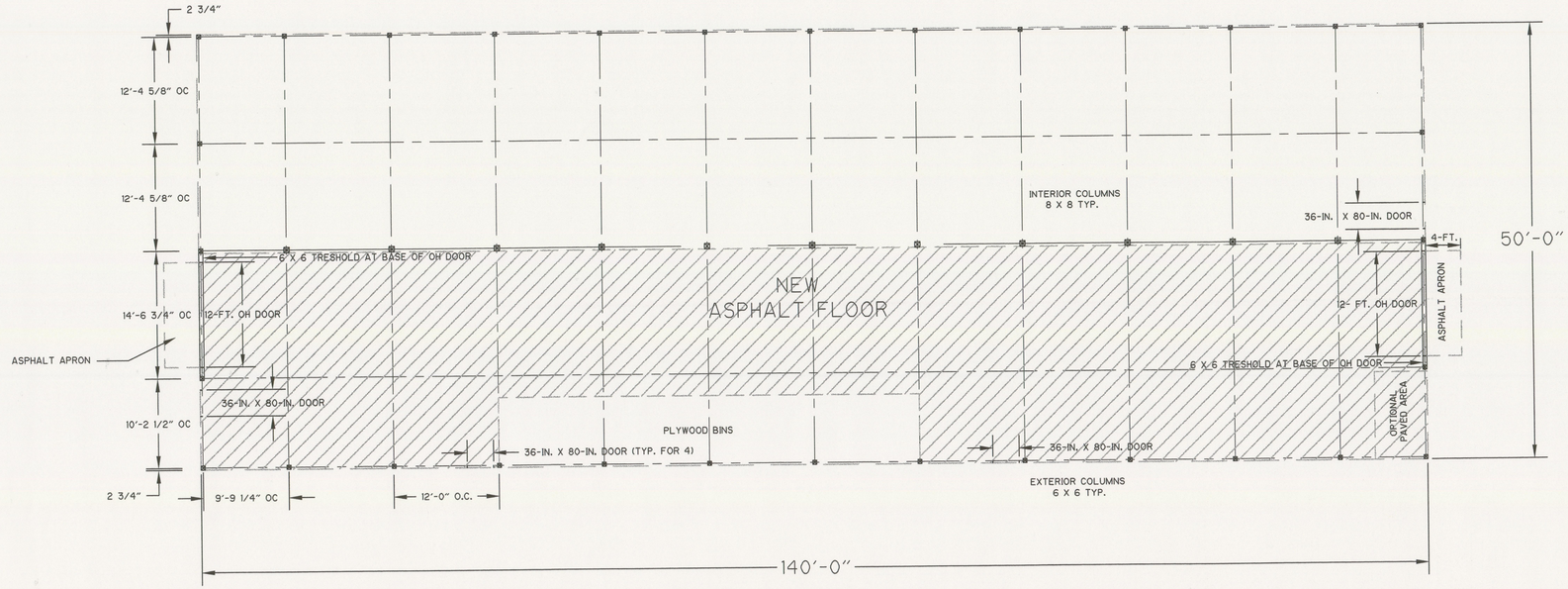
LIBBY, MONTANA

SITE PLAN

MILLWORK WEST
LIBBY, MONTANA

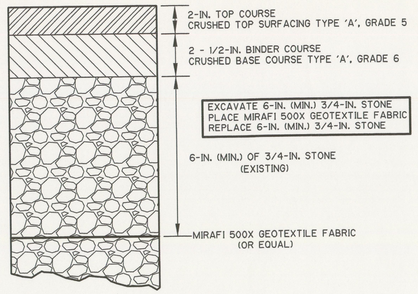
PROJECT NO. 4000 - 34369
FILE NAME: SITEPLAN.DWG

SHEET NO.
C-1



BUILDING #1

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

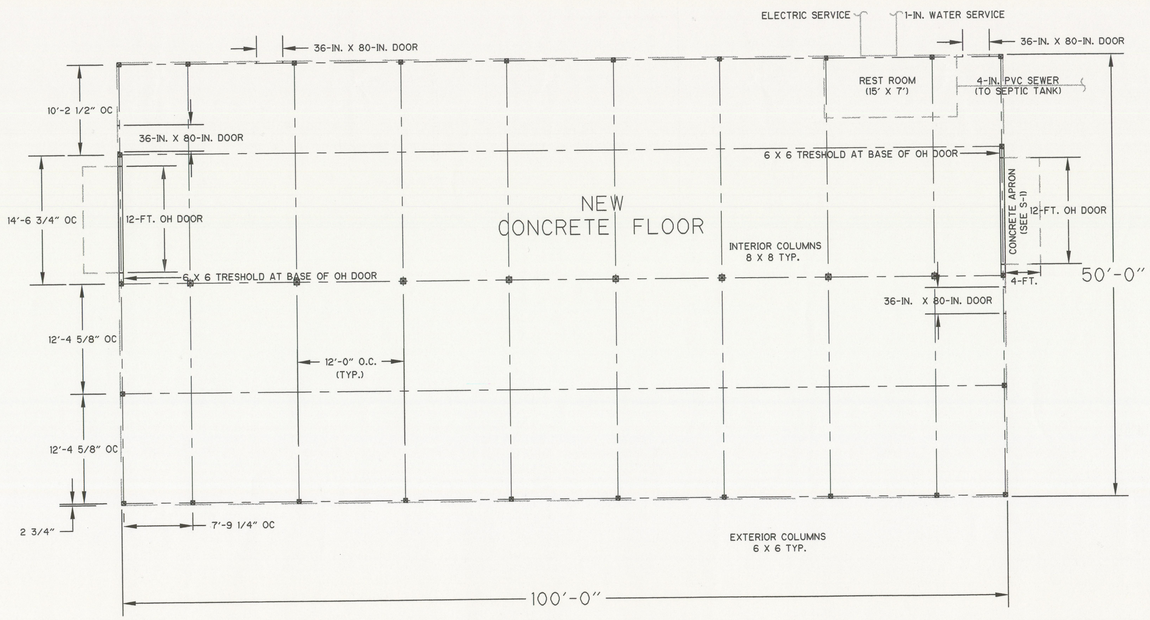


BUILDING NO. 1 - ASPHALT FLOOR & APRON CROSS SECTION

NOT TO SCALE

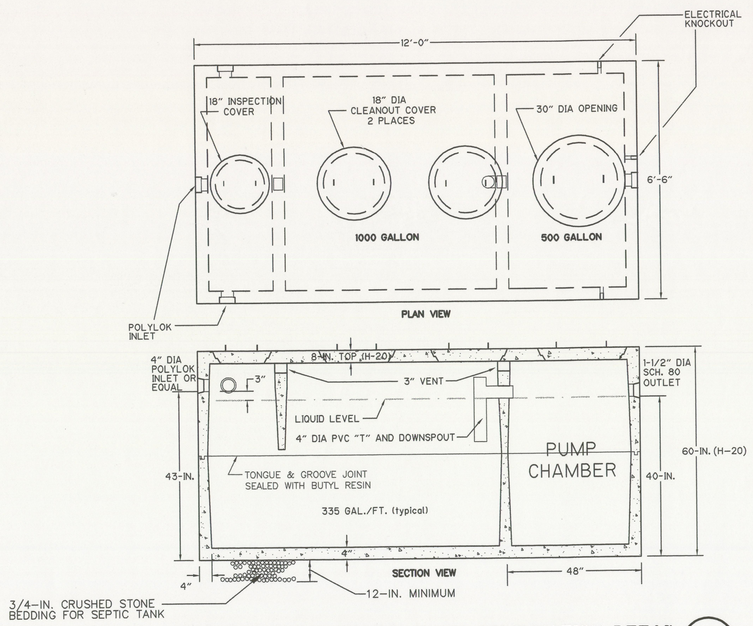
NOTES:

1. DIMENSIONS AND DETAILS ARE APPROXIMATE AND WERE OBTAINED FROM ROUGH FIELD MEASUREMENTS TO CONVEY THE GENERAL INTENT OF THE WORK.
2. THIS PLAN DEPICTS THE FLOOR IMPROVEMENT PLANS OF THE EXISTING BUILDINGS AT THE SITE. THIS PLAN DOES NOT DEPICT THEIR LOCATION RELATIVE TO EACH OTHER. REFER TO THE SITE PLAN (C-1) FOR ORIENTATION ON THE SITE.
3. ASPHALT PAVING TO CONSIST OF 2 - 1/2" BINDER COURSE, WITH A 2" TOP COURSE. BINDER COURSE SHALL CONSIST OF CRUSHED BASE COURSE TYPE "A", GRADE 6 AS DEFINED IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) AS ADOPTED BY THE MONTANA DEPARTMENT OF TRANSPORTATION AND THE MONTANA TRANSPORTATION COMMISSION. TOP COURSE SHALL CONSIST OF CRUSHED TOP SURFACING TYPE "A", GRADE 5 AS DEFINED IN SSRBC. BITUMINOUS MATERIALS SHALL CONFORM TO SECTION 402 OF THE SSRBC. SUBGRADE BENEATH ALL ASPHALT PAVED AREAS SHALL CONSIST OF A 6-IN. LAYER (MIN.) OF 3/4-IN. STONE.
4. INSTALL MIRAFI 500X GEOTEXTILE FABRIC, OR EQUAL, PRIOR TO REPLACING 6-IN. (MIN.) OF EXISTING 3/4-IN. STONE.



BUILDING #2

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



PROPOSED PUMP/SEPTIC TANK COMBINATION DETAIL

3

NOT TO SCALE

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6-2002	ADR	PB	MODIFY ASPHALT PAVEMENT CROSS SECTION
0	5/3/02	ADR	PB	NOT FOR CONSTRUCTION

DESIGNED BY: A. ROSCOE
DRAWN BY: A. ROSCOE
SHEET CHK'D BY: P. BOROWIEC
CROSS CHK'D BY: P. BOROWIEC
APPROVED BY:
DATE: APRIL 2002

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EPA ASBESTOS REMOVAL PROJECT

LIBBY, MONTANA

FLOOR PLANS

MILLWORK WEST
LIBBY, MONTANA

PROJECT NO. 4000 - 34369
FILE NAME: FLRPLAN.DWG

SHEET NO.
A-1

Filename: J:\CAM_LHW\LIBBY\ATBTP001.DWG Xref's: [] Plotted by: ROSCOEAD Time: 6/12/02 5:52:19 PM [ ]

MATERIAL SPECIFICATIONS

A. SANITARY WASTE PIPING

1. THE PIPE AND FITTINGS SHALL BE SV (SERVICE) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS CONFORMING TO ASTM A74 AND ANSI A112.5.1 TARRED INSIDE AND OUT AT THE FOUNDRY.

2. JOINTS SHALL BE MADE UP USING LEAD AND OAKUM. CAULKING LEAD SHALL CONFORM TO U.S. DEPARTMENT OF COMMERCE CS-94 AND FED SPEC QQ-L-156.

3. AS AN OPTION TO LEAD AND OAKUM, RESILIENT GASKETED COMPRESSION JOINTS CONFORMING TO ASTM C564 MAY BE USED. IF OPTIONAL GASKETS ARE USED, PROVIDE ADDITIONAL SUPPORTS AND HANGERS AS REQUIRED TO PROVIDE PIPING SYSTEM RIGIDITY EQUAL TO THAT OF LEADED JOINTS.

4. PIPING ABOVE GRADE SHALL BE OF THE ABOVE MENTIONED HUB AND SPIGOT TYPE OR OF THE NO-HUB TYPE CONFORMING TO THE CAST IRON SOIL PIPE INSTITUTE STANDARDS 301.

5. THE NO-HUB COUPLING SHALL BE ANAHEIM FOUNDRY CO. HUSKY SD4000, CLAMP-ALL 125, MG COUPLING CO. OR EQUAL.

6. COPPER PIPING MAY BE USED FOR SANITARY WASTE AND VENT IN SIZES 2-IN AND SMALLER. PIPE SHALL BE TYPE "L" USED WITH EITHER CAST OR WROUGHT DWV FITTINGS. SOLDER ALLOY 95TA (95 PERCENT TIN, 5 PERCENT ANTIMONY), ASTM B32. NO SOLDER CONTAINING LEAD SHALL BE UTILIZED ON THE PROJECT.

B. WATER PIPING

1. PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER, SOLDER TYPE FITTINGS. JOINTS SHALL BE MADE WITH LEAD FREE SOLDER.

C. WATER VALVES

1. VALVES 2-IN AND SMALLER SHALL BE FULL PORT BRONZE BALL TYPE. BY HAMMOND, WATTS, APOLLO, NIBCO, OR EQUAL.

D. INSULATION

1. ALL WATER PIPING SHALL BE INSULATED THROUGHOUT WITH 1-IN THICK FIBERGLASS HEAVY DENSITY PIPE INSULATION COMPLETE WITH ALL SERVICE JACKETS.

2. FITTINGS AND VALVES SHALL BE COVERED WITH PERMANENTLY NON-COMBUSTIBLE, ONE-PIECE, FACTORY PREMOLDED, PVC INSULATED FITTING COVERS.

3. PROVIDE RIGID INSULATION INSERTS WITH GALVANIZED PROTECTOR SHIELDS EQUAL TO PIPESHIELDS INC., MODEL WFB SERIES CS AT EACH HANGER LOCATION.

4. SUPPLIES, DRAIN AND TRAP ON HANDICAPPED LAVATORIES SHALL BE INSULATED WITH FULLY MOLDED, WHITE, CLOSED CELL VINYL INSULATION KIT, TRUEBRO MODEL 120W-105 OR EQUAL.

E. WATER CLOSET (WC) (HANDICAPPED) (TANK TYPE)

1. 18-IN HIGH VITREOUS CHINA, FLOOR OUTLET, ELONGATED SIPHON JET BOWL, KOHLER K-3527EB HIGHLINE WATER-GUARD OR EQUAL.

2. WHITE SOLID PLASTIC SEAT WITH EXTENDED BACK, OPEN FRONT, LESS COVER WITH CHECK HINGE AS MANUFACTURED BY CHURCH, BEMIS, OR EQUAL.

3. CAST BRASS CLOSET FLANGE WITH BRASS CLOSET BOLTS, WASHERS, CAP NUTS AND WAX SETTING RING.

F. LAVATORY (LAV)

1. 20-IN BY 18-IN WALL MOUNTED VITREOUS CHINA WITH 5-IN BACK, RECTANGULAR BASIN, ANTI-SPLASH RIM, FRONT OVERFLOW, TWO SOAP DEPRESSIONS, KOHLER K-2032 GREENWICH OR EQUAL.

2. SELF-CLOSING 0.5 GPM FAUCET, SYMMONS-SCOT S-60-H OR EQUAL.

3. OFFSET DRAIN WITH GRID STRAINER, KOHLER K-13885 OR EQUAL.

4. IPS LOOSE KEY STOPS WITH CAST BRASS ESCUTCHEONS, KOHLER K-13711 OR EQUAL.

5. CAST BRASS ADJUSTABLE P-TRAP WITH CHROME-PLATED CLEANOUT PLUG, KOHLER K-9022 WITH K-9016 CHROME PLATED BRASS WASTE NIPPLE OR EQUAL.

6. CONCEALED ARM CHAIR CARRIER FOR HANDICAPPED USE WITH FOOT SUPPORT OF TYPE SUITABLE TO MEET BUILDING CONDITIONS AS MANUFACTURED BY J.R. SMITH CO.; ZURN INDUSTRIES, INC.; JOSAM MANUFACTURING CO. OR EQUAL.

G. ELECTRIC WATER HEATER

1. POINT-OF-USE ELECTRIC WATER HEATER, ONE-GALLON CAPACITY STAINLESS STEEL TANK RATED FOR 150PSI WORKING PRESSURE.

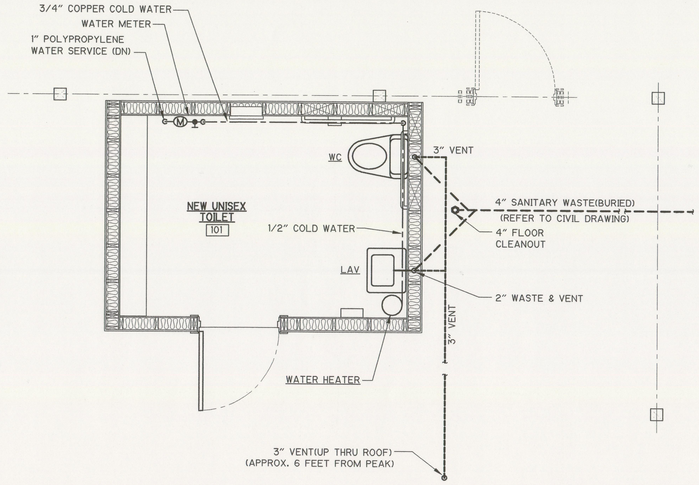
2. 1000 WATT, 120 VAC, SINGLE PHASE, IMMERSION COPPER SHEATHED HEATING ELEMENT.

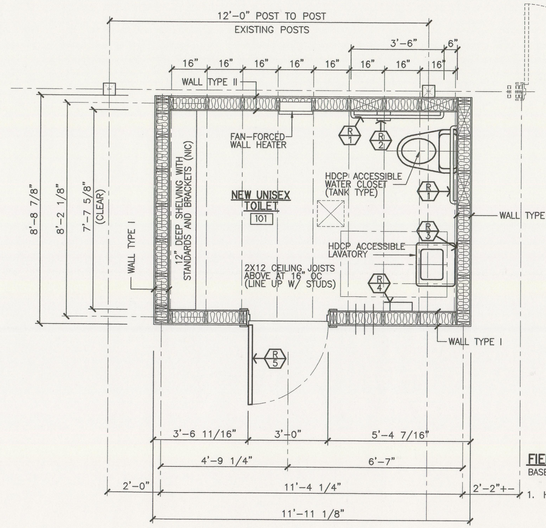
3. PROVIDE COMPLETE WITH 110-170 DEGREE F THERMOSTAT, INTEGRAL HI-LIMIT WITH MANUAL RESET FOR OVER TEMPERATURE PROTECTION, PRESSURE AND TEMPERATURE RELIEF VALVE, MIXING VALVE, VACUUM VALVE AND WALL BRACKETS BY THE HEATER MANUFACTURER.

4. UNIT SHALL BE A MODEL CE-110 AS MANUFACTURED BY HUBBELL - THE ELECTRIC HEATER CO. OR EQUAL.

INSTALLATION

1. ALL ITEMS REQUIRED TO MEET LOCAL PLUMBING CODE ARE NOT NECESSARILY SHOWN BUT ARE REQUIRED TO BE INCLUDED AS PART OF THE PLUMBING WORK.

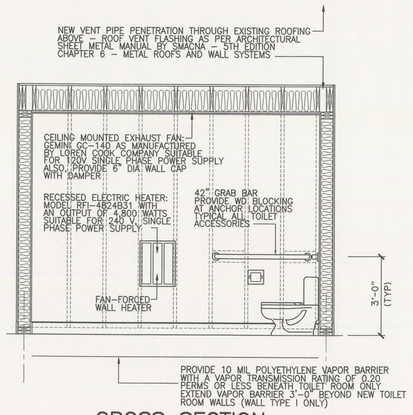




FLOOR PLAN

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

NOTE:
BASED ON DRAWINGS PROVIDED BY THE OWNERS OF MILLWORK WEST, THE EXISTING BUILDINGS WERE MANUFACTURED BY THE BUILDING COMPANY, POLSON, MONTANA, (406) 883-2883.



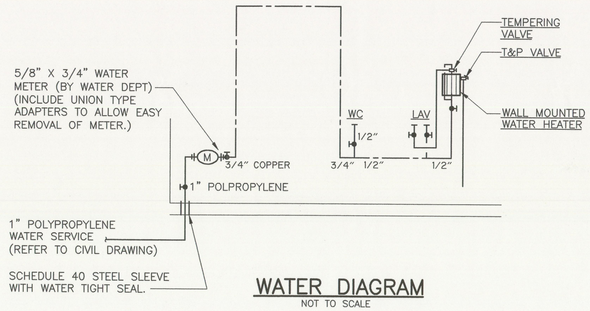
CROSS SECTION

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

FIELD PAINTING

BASED ON SHERWIN-WILLIAMS PRODUCT NUMBERS

1. HM DOOR
   1 COAT KEM KROMICK (OR EQUAL)
   UNIVERSAL METAL PRIMER (3-4 DFT) (OR EQUAL)
   1 COAT INDUSTRIAL ENAMEL HS (2-4 DFT) (OR EQUAL)
   1 COAT INDUSTRIAL ENAMEL HS (2-4 DFT) (OR EQUAL)
2. CONCRETE FLOOR (45 DAY CURE TIME)
   VAPOR BARRIER BENEATH SLAB
   NO SEALER ON CONCRETE
   ACID ETCH CONCRETE SURFACE
   FINISH: ARMORSEAL FLOOR-PLEX 7100 (OR EQUAL)
   FIRST COAT REDUCED 1 PT. H20/GALLON
   2 COATS FULL (1.5 - 2 DFT)
   SHARKGRIP ADDITIVE (OR EQUAL)
   AS PER MANUFACTURER'S DIRECTIONS
3. GYPSUM BOARD
   1 COAT PrepRite 200 PRIMER (1.1 DFT) (OR EQUAL)
   1 COAT PROMAR 200 INTERIOR LATEX SEMI GLOSS (1.4 DFT) (OR EQUAL)
   1 COAT PROMAR 200 INTERIOR LATEX SEMI GLOSS (1.4 DFT) (OR EQUAL)
4. WOOD (PLYWOOD, BASE, DOOR FRAME)
   1 COAT PREPRITE 200 LATEX PRIMER (1.2 DFT) (OR EQUAL)
   1 COAT PROMAR 200 INTERIOR LATEX SEMI GLOSS (1.4 DFT) (OR EQUAL)
   1 COAT PROMAR 200 INTERIOR LATEX SEMI GLOSS (1.4 DFT) (OR EQUAL)



WATER DIAGRAM

NOT TO SCALE

TOILET ROOM ACCESSORIES

PRODUCT NUMBERS BASED ON BOBRICK WASHROOM ACCESSORIES (OR EQUAL)

R1 B-6806 GRAB BAR - 42" LONG
EXPOSED MOUNTING
PEENED GRIP
1 1/2" DIA.

R2 B-2730 TOILET TISSUE
DISPENSER FOR SINGLE ROLL

R3 B-292-1836 MIRROR WITH SHELF
18"W X 36"H MIRROR

R4 B-262 SERIES
PAPER TOWEL DISPENSER
400 C FOLD OR 500 MULTIFOLD

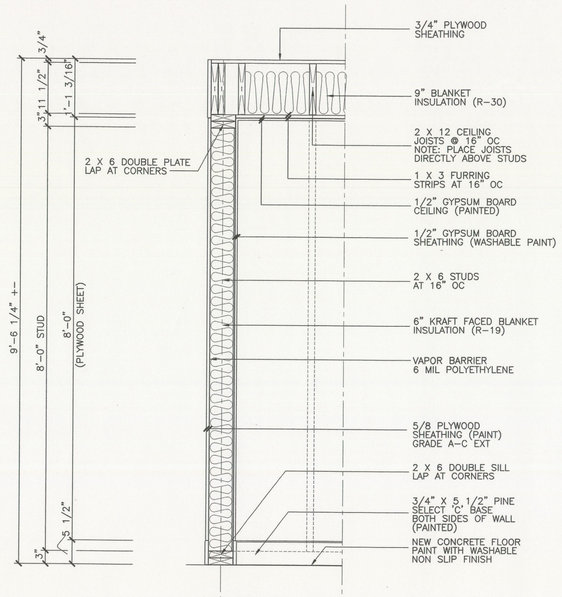
R5 B-682 HAT AND COAT HOOK
BRIGHT POLISHED
1" W X 6 1/4" H

DOOR AND FRAME

1. DOOR SHALL BE THERMA TRU (OR EQUAL) INSULATED STEEL (PAINTED)
   24 GAUGE GALVANIZED
   SOLID POLYURETHANE FOAM CORE
   3'-0" X 6'-8" X 1 3/4"
   10 YEAR LIMITED WARRANTY
2. DOOR FRAME SHALL BE:
   FINGER JOINT AND PRIMED
   PREHUNG (SIZE TO FIT WALL)
   PAINTED
   WEATHERSTRIPPING
3. DOOR HARDWARE:
   HINGES: STAINLESS STEEL FBB191 BY STANLEY (OR EQUAL)
   PRIVACY LOCK: SARGENT OR EQUAL (ADA APPROVED)
   WEATHER SEALS (HEAD, JAMBS & SILL) ZERO OR EQUAL
   THRESHOLD: ZERO, PEMKO, REESE OR EQUAL
   MAXIMUM HEIGHT 1/2" (ADA APPROVED)

WALL TYPES

1. WALL TYPE I
   5/8" EXTERIOR GRADE PLYWOOD (PAINTED)
   (TO FACE SALES AREA)
   VAPOR BARRIER BENEATH PLYWOOD
   6" KRAFT FACED BLANKET INSULATION (R-19)
   2 X 6 WOOD STUD WALL
   (STUDS AT 16" OC)
   1/2" GYPSUM BOARD (PAINTED)
   (TO FACE TOILET ROOM)
   RUBBER BASE (4") TOILET ROOM
   WOOD BASE (6") SALES AREA
   SILL SEALER BENEATH 2X6 SILL
2. WALL TYPE II
   SAME AS WALL TYPE I
   CONSTRUCT WALL ON FLOOR
   AND TILT INTO PLACE
   WEATHERSTRIPPING



WALL SECTION

SCALE: 3/4" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS
0	6/02			FOR USE BY THE GOVERNMENT
0	5/03/02			NOT FOR CONSTRUCTION

DESIGNED BY: SCHLEYER/LAQUIDARA
DRAWN BY: SCHLEYER/LAQUIDARA
SHEET CHK'D BY: BOROWIEC
CROSS CHK'D BY: C. JUTRAS
APPROVED BY:
DATE: APRIL 2002

U.S. DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
JOHN A. VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER
ENVIRONMENTAL ENGINEERING DIVISION, DTS-33
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CAMBRIDGE, MASSACHUSETTS 02142

CONTRACTOR SUPPORT PROVIDED BY:
CDM Federal Programs Corporation
consulting engineering construction operations
ONE CAMBRIDGE PLACE
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EPA ASBESTOS REMOVAL PROJECT

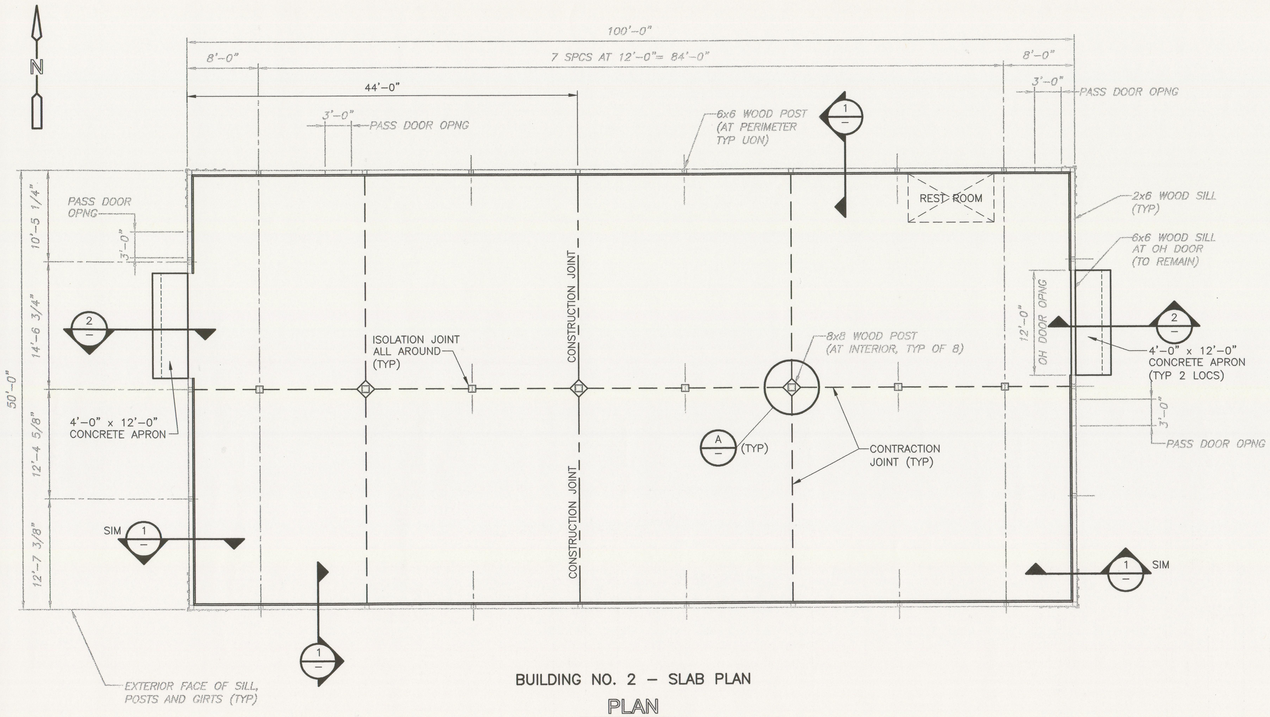
LIBBY, MONTANA

NEW TOILET ROOM PLAN
ARCHITECTURAL PLAN & DETAILS
PLUMBING PLAN & DETAILS

PROJECT NO. 4000 - 34369
FILE NAME: ATBTP001.DWG

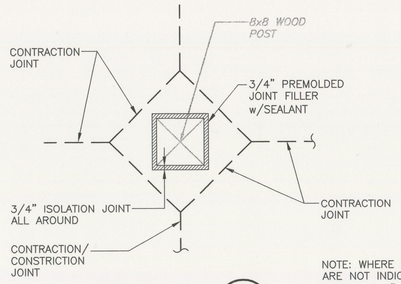
SHEET NO.
A/P-1

Filename: \\CAM_LHW\LIBBY\SFLPL001.DWG Xref's: [LIBBYBDR,] Plotted by: ROSCOEAD Time: 6/14/02 9:18:20 AM [ ]



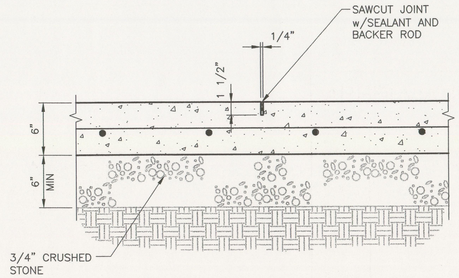
BUILDING NO. 2 – SLAB PLAN

PLAN
1/8" = 1'-0"

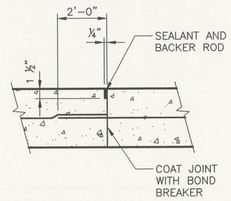


DETAIL A
1" = 1'-0"

NOTE: WHERE DIAGONAL JOINTS ARE NOT INDICATED ON PLAN, PROVIDE 1–#5 X 2'-0" LONG DIAGONAL BAR AT ISOLATION JOINT CORNERS



CONTRACTION JOINT
1 1/2" = 1'-0"



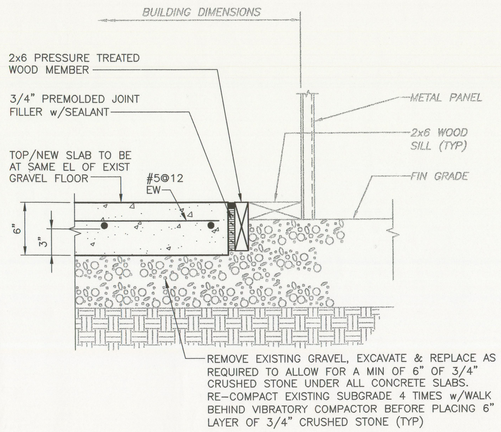
CONSTRUCTION JOINT
NTS

GENERAL NOTES:

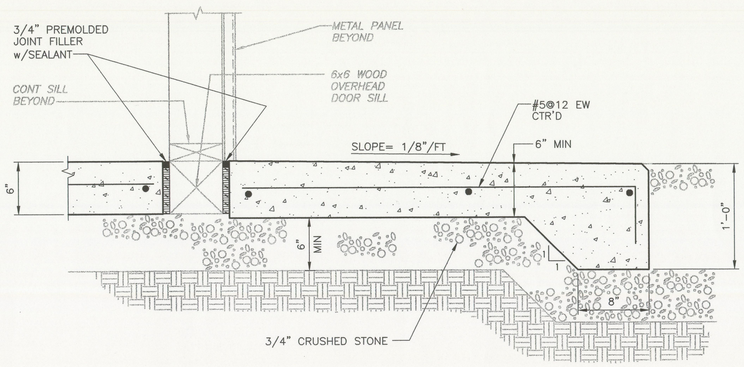
1. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, HEATING AND VENTILATING, SHOP DRAWINGS AND SPECIFICATIONS, AS APPROPRIATE.
2. SEE ARCHITECTURAL, MECHANICAL, HEATING AND VENTILATING AND ELECTRICAL DRAWINGS FOR REGLETS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED OR PASSED THROUGH THE CONCRETE.
3. SLANTED TEXT AND SHADED LINEWORK INDICATE INFORMATION DETERMINED IN THE FIELD. VERIFY ALL SUCH INFORMATION IN THE FIELD PRIOR TO FABRICATION AND INSTALLATION.

CAST IN PLACE CONCRETE NOTES:

1. REINFORCED CONCRETE SHALL COMPLY WITH ACI 318.
2. MINIMUM CONCRETE STRENGTH AT 7 DAYS:
   STRUCTURAL CONCRETE f'c = 4000 psi
3. REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM SPECIFICATION A615 GRADE 60.
4. REINFORCING STEEL FABRICATION SHALL BE IN COMPLIANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE.
5. REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CLEAR CONCRETE COVER UNLESS OTHERWISE NOTED:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN.
   CONCRETE SURFACES IN CONTACT WITH SOIL, WATER, OR EXPOSED TO WEATHER: 2 IN.
   CONCRETE SURFACES NOT IN CONTACT WITH SOIL, WATER OR EXPOSED TO WEATHER: TOP OF SLABS: 1 IN.
6. SPLICED BARS SHALL HAVE A MINIMUM LAP OF CLASS B TENSION LAP SPLICE UNLESS OTHERWISE NOTED.
7. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT LOCATIONS OTHER THAN THOSE SHOWN ON THE DRAWINGS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE CO/COTR.
8. ALL EXPOSED CORNERS OF CONCRETE TO HAVE 3/4" MINIMUM CHAMFER UNLESS OTHERWISE NOTED.
9. REINFORCING BARS TO EXTEND 12 BAR DIAMETERS BUT NOT LESS THAN 12" BEYOND BEND UNLESS OTHERWISE NOTED.
10. A MINIMUM OF 6" OF EXISTING STONE SHALL BE PRESENT BELOW ALL AREAS TO RECEIVE REINFORCED CONCRETE. CONTRACTOR SHALL CHECK DEPTH OF EXISTING STONE FOR COMPLIANCE WITH THIS REQUIREMENT. WHERE ADDITIONAL STONE IS REQUIRED, EXISTING STONE SHALL BE REMOVED, STOCKPILED AND REPLACED TO ALLOW CONTRACTOR TO CAREFULLY REMOVE SOIL TO THE DEPTHS REQUIRED. EXISTING STONE SHALL THEN BE REINSTALLED TO THE MINIMUM 6" DEPTH.
11. ALL STONE SHALL BE COMPACTED WITH 4 PASSES OF A WALK–BEHIND VIBRATORY COMPACTOR PRIOR TO PLACEMENT OF REINFORCING STEEL, 2x6's AND CONCRETE.
12. CONCRETE FINISH SHALL BE SMOOTH STEEL TROWEL FINISH, BY POWER MACHINERY AND HAND TROWEL. REFER TO SPECIFICATION SECTION 03301.



SECTION 1
1 1/2" = 1'-0"



SECTION 2
1 1/2" = 1'-0"

1 1/2" = 1'- 0" .5 0 .5 1 | 1" = 1'- 0" .5 0 1 | 1/8" = 1'- 0" 4 2 0 4 8

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6/2002	ADR	PJB	FOR USE BY THE GOVERNMENT
0	5/3/02	WM	KRK	FOR REVIEW ONLY – NOT FOR CONSTRUCTION

DESIGNED BY: K. KRAWIEC
DRAWN BY: W. MICHAJLIW
SHEET CHK'D BY: K. KRAWIE
CROSS CHK'D BY: P. BOROWIEC
APPROVED BY:
DATE:

U.S. DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
JOHN A. VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER
ENVIRONMENTAL ENGINEERING DIVISION, DTS-33
55 BROADWAY, KENDALL SQUARE
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ONE CAMBRIDGE PLACE
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EPA ASBESTOS REMOVAL PROJECT

LIBBY, MONTANA

BUILDING NO. 2
NEW SLAB PLAN, SECTIONS, DETAILS & NOTES

PROJECT NO. 4000 - 34369
FILE NAME: SFLPL001

SHEET NO.
S-1

Filename: :\CAM_HW\LIBBY\EPLAN001.DWG Xref's: [LIBBYBDR,] Plotted by: ROSCOEAD Time: 6/12/02 5:35:12 PM [ ]

PANELBOARD LP

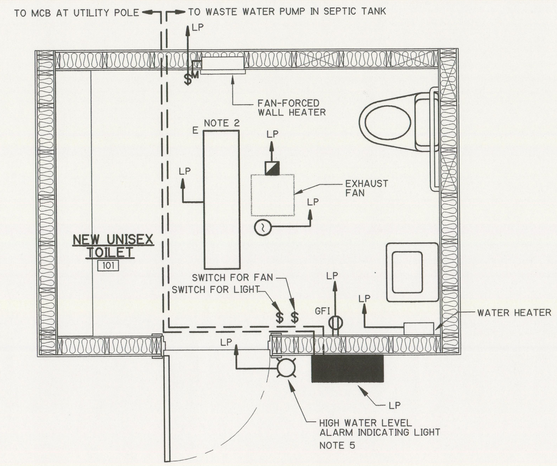
LOCATION: NEAR BATHROOM

100 AMP BUS RATING — 100 AMP MAIN C/B — 100 KA SHORT CIRCUIT RATING — 20 POLES

120/240 VOLTS — 1 PH. — 3 WIRE — 60 HZ. — ☐ ELECTRONIC GRADE (OPTIONAL) — WALL MOUNTED

DESCRIPTION	LOAD KVA A	LOAD KVA B	C/B AMP/POLES		C/B AMP/POLES	LOAD KVA A	LOAD KVA B	DESCRIPTION
WALL BLOWER HEATER	2.4		30 / 2	1 — 2	20 / 1	0.1		EXHAUST FAN
WALL BLOWER HEATER		2.4		3 — 4	20 / 1		1.0	ELECTRIC WATER HEATER
WASTE WATER PUMP	0.4		20 / 1	5 — 6	20 / 1	0.2		GFI RECEPTACLE
LIGHTS		0.6	20 / 1	7 — 8	20 / 1			SPARE
HIGH WATER LEVEL ALARM	0.1		20 / 1	9 — 10	20 / 1	0.2		SMOKE DETECTOR
SPARE			20 / 1	11 — 12	20 / 1			SPARE
SPARE			20 / 1	13 — 14	20 / 1			SPARE
SPACE				15 — 16				SPACE
SPACE				17 — 18				SPACE
SPACE				19 — 20				SPACE
TOTAL KVA	2.45	3.0		A B		0.5	1.0	TOTAL KVA

TOTAL CONNECTED AMPS 24.6 ØA 33.3 ØB



PLAN

"½" = 1'-0"

ABBREVIATIONS

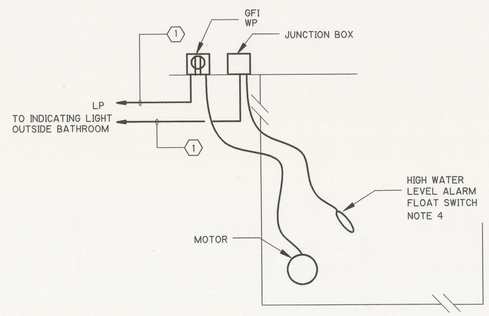
A	AMPS OR AMPERE
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
GFI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HZ	HERTZ
K	KILO (PREFIX)
KCMIL	1000 CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LA	LIGHTNING ARRESTER
LTG	LIGHTING
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
NTS	NOT TO SCALE
Ø	PHASE
V	VOLTS
VA	VOLT AMPS
WP	WEATHERPROOF
XP	EXPLOSION PROOF

SYMBOL	DESCRIPTION
A 3 b	FLUORESCENT TYPE LIGHTING FIXTURE
	BRANCH CIRCUIT CONDUIT WITH 2#12,1#12G, 3/4"C INSTALLED EXPOSED. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS. DOES NOT APPLY TO UNDERGROUND DUCTBANKS.
	CONDUIT RUN CONCEALED, (2#12, 1#12G, 3/4"C UNLESS OTHERWISE NOTED)
LP-1 1,3	HOMERUN, CIRCUITS 1 AND 3 RUN TO PANEL LP-1
OR LP**	LIGHTING PANELBOARD-**-NAME AS INDICATED
OR PP**	POWER PANELBOARD -**-NAME AS INDICATED
F	FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE, AMPERE RATING AND FUSE SIZE AS NOTED ✳ AMPERE RATING NOTED IF OTHER THAN 30A ✱ FUSE RATING
P 2	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD HEATER, 1 POLE UNLESS OTHERWISE NOTED "P" INDICATES WITH PILOT LIGHT "2" INDICATES TWO POLE
J	JUNCTION BOX
¾"C. 2(3#3/0, 1#2G., 3"C.)	CONDUIT, SIZE AND FILL AS NOTED. TWO 3" CONDUITS EACH CONTAINS THREE #3/0 AWG CONDUCTORS AND ONE #2 GROUND.
3#12,1#12G.	THREE (3) NO.12 AWG CONDUCTORS AND ONE (1) NO.12 EQUIPMENT GROUNDING CONDUCTOR
1-2/C#16TS	INSTRUMENT CABLE, TWISTED PAIR OR TRIPLEX AS NOTED WITH OVERALL SHIELD AND JACKET, CONDUCTOR SIZE AND QUANTITY AS NOTED
$a	SINGLE POLE SWITCH, "a" INDICATES CONTROL OF LIGHTS "a" "m" INDICATES MOTOR HORSPOWER RATED.
$ 3 a	THREE WAY SWITCH, "a" INDICATES CONTROL OF LIGHTS "a"
✳	DUPLEX RECEPTACLE, 20A, 120V, 3W, SINGLE PHASE ✳ C - MOUNTED ABOVE COUNTER TOP GF - GROUND FAULT INTERRUPTER TYPE WP - WEATHERPROOF 3 - BRANCH CIRCUIT NUMBER T - TRANSIENT VOLTAGE SURGE SUPRESSOR IC - ISOLATED GROUND
1	SMOKE DETECTOR RESIDENTIAL TYPE 120V.
	EXOTHERMIC WELD CONNECTION
—	CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED
—	CONDUCTORS ELECTRICALLY CONNECTED
—	INDICATES LIMITS OF EQUIPMENT OR WIRING ENCLOSURE
FRAME TRIP	LOW VOLTAGE CIRCUIT BREAKER, THREE POLE UNLESS NOTED OTHERWISE
✳	NON-FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE ✳ AMPERE RATING NOTED IF OTHER THAN 30A
	GROUND OR GROUND ROD
5	MOTOR, NUMERAL INDICATES HORSEPOWER
DAMP	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 12 CONSTRUCTION AND SUITABLE FOR USE IN A DAMP OR WET LOCATION
WET	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF WATERTIGHT OR NEMA 4 CONSTRUCTION SUITABLE FOR USE IN A WET LOCATION, UNLESS NOTED OTHERWISE
CORROSIVE	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 4X, CORROSION RESISTANT CONSTRUCTION SUITABLE FOR USE IN A WET LOCATION, UNLESS NOTED OTHERWISE
CLASS I, DIV. I GROUP D	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND INSTALLATION WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS _____SHALL CONFORM TO N.E.C. REQUIREMENTS FOR THE HAZARDOUS AREA CLASSIFICATION SHOWN

CONDUIT AND WIRE LEGEND

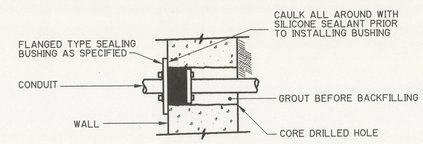
(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
1	1"C., (2#12, 1#12G FOR WASTE WATER PUMP / 2#12, 1#12G FOR FLOAT SWITCH) IN UNDERGROUND DUCT BANK
2	1¼"C., 2#1/0, 1#8 G. (IN UNDERGROUND DUCT BANK)
3	EXISTING

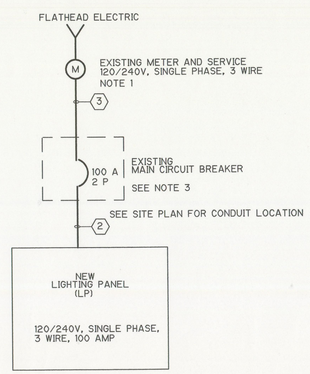


WASTE WATER PUMP LOCATION SHOWN ON SITE PLAN.
NTS

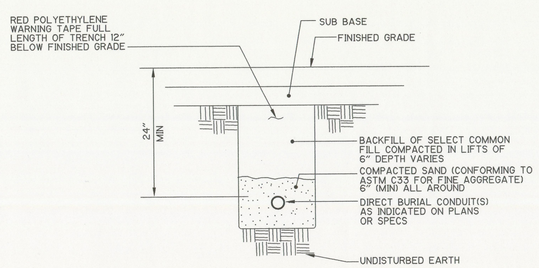
WASTE WATER PUMP POWER



CONDUIT PENETRATION THROUGH EXISTING WALL



ONE LINE DIAGRAM



DIRECT BURIAL CONDUIT

(SEE TRENCH & BEDDING DETAIL ON SHEET C-1)

NOTES:

1. EXISTING VOLTAGE TO BE CONFIRMED. CONTACT WAYNE RISTINE OF FLATHEAD ELECTRIC COOPERATIVE, 406-751-4463.
2. FIXTURE TYPE E IS CEILING PENDENT MOUNTED. FLUORESCENT ENCLOSED AND GASKETED INDUSTRIAL UNIT WITH ACRYLIC LENS AND NON-METALLIC HOUSING. LITHONIA AF102032PD *SSB OR EQUAL WITH 2 LAMPS F032/841.
3. DISCONNECT EXISTING TEMPORARY TRAILER BATHROOM CONNECTION AND REUSE BREAKER FOR NEW BATHROOM.
4. HIGH WATER LEVEL ALARM SHALL BE FLYGT ENM-10 WITH CABLE EQUAL TO SUBMERIBLE PUMP CORD 16/3 SJTW.
5. INDICATING LIGHT FOR HIGH WATER LEVEL ALARM SHALL BE SQUARE D CATALOG NUMBERS FOR ENCLOSURE XALD01, FOR PLUG ZALVGA, FOR LIGHT OR120 OR EQUAL FOR EACH.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6/2002	ADR	PJB	FOR USE BY THE GOVERNMENT
0	5/3/02	AB	AP	NOT FOR CONSTRUCTION

DESIGNED BY: A. BRUNO
DRAWN BY: A. BRUNO
SHEET CHK'D BY: A. PLINER
CROSS CHK'D BY: P. BOROWIEC
APPROVED BY:
DATE: MAY 2002

U.S. DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
JOHN A. VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER
ENVIRONMENTAL ENGINEERING DIVISION, DTS-33
55 BROADWAY, KENDALL SQUARE
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EPA ASBESTOS REMOVAL PROJECT

LIBBY, MONTANA

ELECTRICAL PLANS AND DETAILS

PROJECT NO. 4000 - 34369
FILE NAME: EPLAN001.DWG

SHEET NO.
E-1