Replacement Facility For

Wrangell Medical Center

Wrangell, Alaska

DEJA

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DEJA Project 10528.00

March 21, 2012

VOLUME 1 - EARLY RELEASE PACKAGE
SITE

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VOLUME 1 - EARLY RELEASE PACKAGE
SITE

GENERAL NOTES

THE CONTRACTOR SHALL BUILD THE BUILDING, ASSEMBLING THE COMPONENTS WITH CAREFUL ATTENTION TO FLASHINGS, VAPOR BARRIER INTEGRITY, INSTALLATION OF EXTERIOR SKIN, FRAMING, SEALANTS, COMPONENTS SUCH AS DOOR FRAMES, LOUVERS, INSULATION SEALANTS, ETC., AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO CREATE A COMPLETED PROJECT THAT IS WATERTIGHT AND IN COMPLIANCE WITH THE STATED DESIGN INTENT. FURTHERMORE, THE BUILDING SHALL BE IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD CONSTRUCTION PRACTICES FOR THIS LOCATION.

CONTRACTOR SHALL COORDINATE THE WORK OF THE VARIOUS SUBCONTRACTORS AND MATERIAL SUPPLIERS TO ASSURE THE DESIGN INTENT IS ACHIEVED.

VAPOR BARRIER SHALL BE SEALED TIGHTLY AROUND ALL PENETRATIONS, INCLUDING OPENINGS, ELECTRICAL BOXES, PIPING PENETRATIONS, ETC., AS WELL AS BEING SEALED TIGHT TO THE FLOOR AND TO THE ROOF DECK TO ACHIEVE A PERM RESISTANCE OF 1.0. VAPOR BARRIERS SHALL BE FREE OF ANY TEARS OR UNSEALED PENETRATIONS.

PORTIONS OF THE EXTERIOR WALL SYSTEM THAT ARE DESIGNED AS BARRIER WALLS SHALL BE INSTALLED TO CREATE A WATER BARRIER AT THE PERIMETER, AT ALL OPENINGS AND AT ALL PENETRATIONS.

ALL WALLS SHALL BE BUILT INCORPORATING CONTROL JOINTS AND/OR EXPANSION JOINTS AS APPROPRIATE TO CONTROL MOVEMENT IN THE WALL DUE TO TEMPERATURE MOVEMENT. FLASHINGS SHALL BE PROVIDED AS BACKING OVER OR UNDER ALL SUCH JOINTS.

ALL WOOD BLOCKING IS TO BE FIRE RETARDANT. SEE SPEC SECTION 06 10 00.

ALL FIRE DOORS, FIRE WINDOWS, & FIRE DAMPERS ARE TO HAVE AN APPROVED LABEL PERMANENTLY APPLIED AT THE FACTORY.

SEISMIC ANALYSIS FOR ARCHITECTURAL & MPE COMPONENTS

REFER TO THE SPECIFICATIONS AND APPLICABLE INDUSTRY STANDARDS FOR APPLICATION OF THESE NOTES TO SPECIFIC BUILDING COMPONENTS

ARCHITECTURAL, MECHANICAL, & ELECTRICAL COMPONENTS AND SYSTEMS
AL!VE MATERIALS MANAGEMENT SEISMIC REQUIREMENTS
(BASED ON 2006 INTERNATIONAL BUILDING CODE)

Seismic Use Group: IV
Importance Factor Ie: 1.5
Spectral Response SDS: .180
Spectral Response SDI: .23
Site Class: D

ARCHITECTURAL COMPONENTS		
COMPONENT	Coefficient (Ap)	Coefficient (Rp)
Exterior-nonbearing walls	1.0	2.5
Interior-nonbearing wall, including vertical shaft enclosures	1.0	2.5
Exterior & Interior ornamentations & appendages	2.5	2.5
Permanent floor supported cabinets and books stacks	1.0	2.5
Suspended ceilings	1.0	2.5
Access floor systems	1.0	2.5
Partitions	1.0	2.5
Light Fixtures	1.0	1.25

MECHANICAL, PLUMBING, & ELECTRICAL COMPONENTS		
COMPONENT	Coefficient (Ap)	Coefficient (Rp)
Tanks & Vessels including support systems.	1.0	2.5
Electrical, Mechanical, and plumbing equipment and associated conduit and ductwork and piping.	1.0	2.5
Electrical Distribution Systems	1.0	2.5
Electrical Equipment	1.0	2.5
Elevator Equipment	1.0	2.5

ADDITIONAL REQUIREMENTS:

1) Seismic restraints may be omitted from piping and duct supports if all the following conditions are satisfied:
   a) lateral motion of the piping or duct will not cause damaging impact with other systems.
   b) The piping or duct is made of ductile material with ductile connections.
   c) lateral motion of the piping or duct does not cause impact of fragile appurtenances (e.g. sprinkler heads) with any other equipment, piping, or structural member.
   d) Lateral motion of the piping or duct does not cause loss of system vertical support
   e) Rod–hung supports of less than 12 inches in length have top connections that cannot develop moments.
   f) Support members cantilevered up from the floor are checked for stability.

2) Seismic restraints may be omitted from electrical raceways, such as cable trays, conduit and bus ducts, if all the following conditions are satisfied:
   a) Lateral motion of the raceway will not cause damaging impact with other systems
   b) Lateral motion of the raceway does not cause loss of system vertical support
   c) Rod–hung supports of less than 12 inches in length have top connections that cannot develop moments
   d) Support members cantilevered up from the floor are checked for stability.

3) Piping, ducts and electrical raceways, which must be functional following an earthquake, spanning between different buildings or structural systems shall sufficiently flexible to withstand relative motion of support points assuming out–of–phase motions.

4) Movement of components within electrical cabinets, rack– and skid–mounted equipment and portions of skid–mounted electro–mechanical equipment that may cause damage to other components by displacing, shall be restricted by attachment to anchored equipment or support frames.

Architectural Fire Safety Code Analysis

WRANGELL MEDICAL CENTER
Wrangell, Alaska (Draft 2)

1. Applicable Codes:
   State Health Care Facilities –
   A. 2000 NFPA 101 Life Safety Code (LSC)
   State Fire Marshal –
   A. 2006 International Building Code (IBC) Chapters 1–12, 14–28, 30–35 and Appendix C with amendments
   B. 2006 International Mechanical Code with amendments
   C. 2006 Uniform Plumbing Code with amendments
   D. 2008 National Electrical Code with amendments
   E. 2006 International Fuel Gas Code with amendments
   F. 2006 International Fire Code including Appendices B–G with amendments
   City –
   State–adopted codes will govern
   TJC and CMS –
   2000 NFPA 101 Life Safety Code

2. Occupancy Types:
   A. Group I–2 Institutional (IBC 308.3)
   B. Health Care – Hospital (LSC Ch. 18)

3. Construction Types:
   A. Type II B (IBC 602.2)
   B. Type II (000)/NFPA 220

4. Structural Fire Ratings:
   None required.

5. Fire Suppression System:
   Complete automatic sprinkler protection to be provided for entire building.

6. Height and Area:
   One–story; 55,390 SF for entire facility.

7. Fire Safety Concept:
   Construct a hospital of noncombustible construction which is divided by a 2–hour fire wall into two separate "buildings" as per IBC 503.1. The base allowable area is 11,000 sq. ft. which can be increased 300% with complete sprinkler protection (IBC 506.3). This permits an additional 33,000 sq. ft. for a total allowable area of 44,000 sq. ft. on each side of the fire wall. Additional area up to 75% of 11,000 sq. ft. (8,250 sq. ft.) is possible depending on the open area perimeter for each building. The north building (Smoke Compartments 1 & 2) is 28,530 sq. ft. The south building (Smoke Compartments 3,4 & 5) is 26,481 sq. ft.

   Outside exits are provided at ten main locations around the perimeter.

   Each fire area is subdivided into smoke compartments by 1–hour smoke barriers as per IBC 407.4 and LSC 18.3.7.

   The following areas are considered suites as per IBC 1014.2.2 and LSC 18.2.5.4 : Radiology, Surgery and Clinic.

   Multi–purpose therapeutic spaces are open to the corridor as permitted by IBC 407.2.3 and LSC 18.3.6.1, Ex. 5.

8. Other Life Safety Considerations (most stringent of applicable codes is indicated):
   A. Occupant load (IBC 1004.1.1 & LSC 18.1.7):
      Smoke Compartment #1 –
         Treatment: 4,779 SF/240 SF/occ.=20 occupants
         Office/Support/Clinic: 7,954 SF/100 SF/occ.=79 occupants
         Dining: 513 SF/15 SF/occ.=34 occupants
         Storage/Mechanical: 2,709 SF/300 SF/occ. = 9 occupants
         Total: 142 occupants

      Smoke Compartment #2 –
         Treatment: 4,087 SF/240 SF/occ. = 17 occupants
         Office: 5,384 SF/100 SF/occ. = 54 occupants
         Waiting: 757 SF/15 SF/occ. = 50 occupants
         Total: 121 occupants

      Smoke Compartment #3 –
         Sleeping: 15,657 SF/120 SF/occ. = 130 occupants
         Treatment: 1,920 SF /240 SF/occ. = 8 occupants
         Office/Support: 1,593 SF/100 SF/occ. = 16 occupants
         Total: 154 occupants

      Smoke Compartment #4 –
         Sleeping: 3,669 SF/120 SF/occ. = 30 occupants

      Smoke Compartment #5 –
         Sleeping: 3,642 SF/120 SF/occ. = 30 occupants

      Grand Total: 477 occupants

   B. Exit capacity (IBC 1005.1 & LSC 7.3.3.1):
      Outside exits –3 (33") + 8 (45") + 1 (66") = 525"
      525"/0.2"/occ. = 2,625 occupants

   C. Corridor width (IBC Table 1017.2 & AIA/HHS 8.2.2.1[1]):
      Inpatient areas with bed or stretcher movement: 8' min.
      Staff only areas: 5' min.

   D. Dead end (IBC 1017.3): 20' maximum

   E. Travel distance (IBC Table 1016.1 & LSC 18.2.6.2):
      Point in sleeping room to exit access: 50' maximum
      Point in suite to exit access door
         –one intervening room: 100' maximum
         –two intervening rooms: 50' maximum
      Exit access to exit: 150' maximum
      Any point to an exit: 200' maximum

   F. Door width (IBC 1008.1.1 & LSC 18.2.3.6):
      41–1/2" clear width minimum for areas with bed movement
      32" clear width minimum elsewhere

   G. Interior finish (IBC 803.5):
      Exits and exit access: Class B maximum flame spread
      Rooms: Class B maximum flame spread; Class C allowed in rooms with four persons or less

      Smoke production must be 450 or less under NFPA 258– 2001.

   H. Corridor construction (IBC 407.3): Non–hourly rated, smoke partition per IBC 710 extended to deck

   I. Corridor doors (IBC 407.3.1 & LSC 18.3.6.3.1): Non–hourly–rated doors which limit smoke transfer: positive latch required

   I. Corridor doors (IBC 407.3.1 & LSC 18.3.6.3.1): Non–hourly–rated doors which limit smoke transfer: positive latch required

   J. Incidental use or hazardous area separation (IBC Table 508.2, LSC 18.3.2.1 & NFPA 110,7.2):

Boiler room:	1–hour
Maintenance shop:	1–hour
Trash collection rooms:	1–hour
Soiled linen holding rooms:	1–hour
Storage rooms greater than 100 SF in area:	1–hour
Medical gas storage:	1–hour
Emergency generator room:	2–hour
Storage rooms 50 –100 SF in area:	Smoke–resistant
Laboratory (less than severe hazard):	Smoke–resistant

   K. Floor covering (IBC 804.5.1, Ex.):
      Enclosed exits & exit access: 0.22 watts/sq. cm. minimum as per NFPA 253 (radiant panel)

   L. Outside window (LSC 18.3.8):
      Required in each patient sleeping room with a 36" maximum sill height; 60" maximum sill height allowed in special nursing care areas

   M. Accessible egress (IBC 1007.1–1007.7 & LSC 7.5.4.1.3):
      Accessible outside exits provide accessible egress under the IBC.

      The LSC does not require additional accessible means of egress in fully sprinklered health care occupancies.

INDEX OF DRAWINGS

LEGEND OF TAGS

DOOR TAG (#, LETTER, #, #)
EXTERIOR WINDOW (#, LETTER)
INTEROR WINDOW (#, #)
SECTION MARK
DETAIL MARK
PLAN KEY NOTE
CASEWORK TAG
ROOM TAG
ENLARGED PLAN MARK

HATCH LEGEND

EXISTING CMU TO REMAIN
NEW CMU
NEW INSULATED WALL CAVITY @ EXIST. CMU WALL
STONE VENEER
BRICK VENEER

LEGEND OF ABBREVIATIONS

BP#1	BID PACKAGE ONE/EARLY RELEASE
GYP. BD	GYPSUM BOARD
E.J.	EXPANSION JOINT
SF	SQUARE FOOT
STRUCT.	STRUCTURAL
MECH.	MECHANICAL
ELEC.	ELECTRICAL
EIFS	EXTERIOR INSULATION FINISH SYSTEM
DEFS	DIRECT APPLIED ETERIOR FINISH SYSTEM
CMU	CONCRETE MASONRY UNIT
EPDM	ELASTOMERIC MEMBRANE ROOFING
FEC	FIRE EXTENGUISHER CABINET
ACT	ACOUSTICAL CEILING TILE
FV	FIELD VERIFY
RWL	RAINWATER LEADER
PC	PERSONAL COMPUTER
WCT	WHEEL CHAIR TURN–AROUND
UNO	UNLESS NOTED OTHERWISE
STL	STEEL
F.O.	FACE OF
CONC.	CONCRETE
CLG	CEILING
O.C.	ON CENTER
DIA.	DIAMETER
W/	WITH
R.D.	ROOF DRAIN
BLKG.	BLOCKING
MIN.	MINIMUM
MAX.	MAXIMUM
ALUM.	ALUMINUM
CONT.	CONTINUOUS
MTL.	METAL
TYP.	TYPICAL
INSUL.	INSULATION
EXIST.	EXISTING
KT	KEYBOARD TRAY
CT	CURTAIN TRACK
T	TEMPERED GLASS
VIF	VERIFY IN FIELD
R.D.	ROOF DRAIN
OPP.	OPPOSITE
SIM.	SIMILAR
SC	SCUPPER
FDVC	FIRE DEPT. WALL CONNECTION
LF	LIGHT FIXTURE
T.O.S.	TOP OF STEEL
T.O.M.	TOP OF MASONRY
O.F.O.B.	OUTSIDE FACE OF BRICK

BUILDING ENVELOPE

WRANGELL, AK IS WITHIN CLIMATE ZONE 7 AS DESIGNATED IN THE 2006 INTERNATIONAL ENERGY CONSERVATION CODE

ROOF
R–VALUE (REQUIRED BY CODE): R25ci (ENTIRELY ABOVE DECK)
R–VALUE (ACTUAL DESIGN): AVERAGE R30 (ABOVE DECK)

WALL
R–VALUE (REQUIRED BY CODE): R13 + 7.5ci
R–VALUE (ACTUAL DESIGN): APPROX. R19 +7.5ci

BELOW GRADE WALLS
R–VALUE (REQUIRED BY CODE): R–7.5ci
R–VALUE (ACTUAL DESIGN): R–7.5ci

FLOORS
R–VALUE (REQUIRED BY CODE): R–30
R–VALUE (ACTUAL DESIGN): R–30

WINDOWS
MTL. FRAMING @ STOREFRONT – U–FACTOR (REQ'D BY CODE): 0.45
MTL. FRAMING @ STOREFRONT – U–FACTOR (ACTUAL DESIGN): 0.45

ENTRANCE DOORS – U–FACTOR (REQUIRED BY CODE): 0.80
ENTRANCE DOORS – U–FACTOR (ACTUAL DESIGN): 0.80

SHGC (WHERE PF=.25 OR GREATER): NO REQUIREMENT

VAPOR RETARDER
REQUIRED ON INSIDE FACE OF METAL STUDS ON EXTERIOR WALLS

ALTERNATE PRICING

PROVIDE PRICING FOR ALTERNATES AS FOLLOWS:

1. NOT USED.

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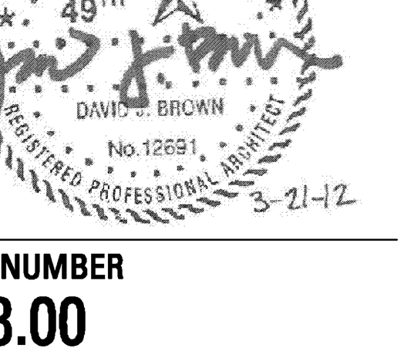
A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFD AMERICAN HEALTH FACILITIES DEVELOPMENT



PROJECT NUMBER
10528.00
DATE
March 21, 2012

INDEX

VOLUME ONE INDEX/CODE ANALYSIS/GENERAL NOTES

Early Release Package

LEGEND

- EXISTING CONTOUR
- XXX — EXISTING INDEX CONTOUR
- FINISHED GRADE CONTOUR
- XXX — FINISHED GRADE INDEX CONTOUR
- EXISTING EDGE OF GRAVEL
- EDGE OF ASPHALT / CONCRETE
- CURB
- SD — STORM LINE
- XSD — EXISTING STORM LINE
- XSS — SANITARY LINE
- XSS — EXISTING SANITARY LINE
- XFM — EXISTING SANITARY FORCE MAIN
- W — WATER LINE
- XW — EXISTING WATER LINE
- EXISTING STORM MANHOLE
- EXISTING STORM MANHOLE W/ GRATED RIM
- EXISTING STORM CATCHBASIN
- STORM CATCHBASIN
- SANITARY MANHOLE
- WATER VALVE
- EXISTING WATER VALVE
- FIRE HYDRANT
- STORM FLOW CONTROL MANHOLE
- XX TEST HOLE LOCATION

R&M
R&M ENGINEERING–KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

STATE OF ALASKA
49th
ROBERT BADGETT
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REGISTERED PROFESSIONAL ENGINEER

Early Release Package

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A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

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C100
EXISTING CONDITIONS & TEST HOLE LOCATION PLAN

T.H.-1
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT OVERBURDEN WITH ROOTS
- WATER TABLE 2'
- GRAVEL SAND SHALE
- MEDIUM DENSE GRAY GRAVELY TILL
- COBBLES WITH SHALEY GRAVEL MIX
- BEDROCK OR BOULDER
- EOH

T.H.-2B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- WATER TABLE 1.5'
- ORGANIC PEAT
- MEDIUM DENSE TILL WITH GRAVEL
- REFUSAL ON BOULDER OR BEDROCK DID NOT CORE DENSE TILL OR BEDROCK
- EOH

T.H.-3
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- SAND AND COURSE SHALE SAND
- MEDIUM DENSE BROWN AND GRAY SILTY GRAVEL WITH FINE BEACH GRAVELS
- DARK GRAY COBBLES IN TILL MATRIX
- EOH
- NOTE: CORED INTO ROCK AT 8' COBBLES IN TILL OR WEATHERED BEDROCK VERY DENSE

T.H.-4B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- WATER TABLE 1.5'
- GRAY CLAY TILL WITH SHAIL GRAVEL
- GRAVELLY MEDIUM DENSE TILL
- 6.5' HIT WEATHERED BEDROCK CORED TO 8'
- EOH

T.H.-24B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- TILL WITH COBBLES
- BEDROCK
- EOH
- NOTE: CORED TO 6.5' INTO BEDROCK FOUND VOIDS OR CRACKS

T.H.-5
SOIL DESCRIPTION
CORE DRILL 10/4/10

- LOOSE ORGANIC PEAT
- WATER TABLE 1.5'
- GRAVELY BEACH WITH BEACH SHELLS (MEDIUM DENSE)
- DENSE TILL W/ SMALL COBBLES
- EOH

T.H.-5B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- HIT BEDROCK OR 5' OR LARGER BOULDER. MOVED 4 TIMES TO GET BY IT IN A 6' SQUARE AREA CORED 2' INTO IT WITH BEDROCK CORES COMING OUT
- EOH

T.H.-6B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- BEDROCK
- CORED 1.5' TO BEDROCK EOH=4.5'

T.H.-8B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- BEACH GRAVEL
- BEACH SAND WITH FINE GRAVEL, SHELLS, AND A FEW COBBLES
- GRAY CLAY WITH VERY FEW GRAVELS
- LOOSER SILTY FINE CLAY
- MEDIUM DENSE TILL CLAY WITH SMALL COBBLES
- DENSE TILL
- ROCK BOULDER OR BEDROCK
- EOH

T.H.-9B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- BEACH SAND
- TILL WITH GRAVELS
- DENSE TILL WITH COBBLES
- DENSE DRILLING THROUGH COBBLES COULD NOT DRIVE CASING, VERY DENSE DRILLING
- EOH

T.H.-10B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- TILL WITH SMALL GRAVELS
- BEDROCK
- EOH

T.H.-7B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- BEACH GRAVEL WITH COARSE SAND
- BEDROCK
- EOH

T.H.-11B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- WATER TABLE 1'
- ORGANIC PEAT
- BEACH SAND
- LOOSE WET GRAY SILTY CLAY
- MEDIUM DENSE TILL WITH GRAVEL
- TILL WITH 2-4" COBBLES
- BEDROCK
- EOH

T.H.-12B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- TILL WITH FEW GRAVELS
- VERY DENSE TILL
- EOH

T.H.-14B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- BEACH GRAVEL WITH SHELLS (DENSE)
- SILTY CLAY WITH SHELLS
- DAMP SILTY CLAY WITH SHELLS
- BEDROCK
- EOH

T.H.-20B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- GRAVEL AND COBBLES
- BEDROCK CORED TO 6'
- EOH

T.H.-13B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- WATER TABLE 1'
- ORGANIC PEAT
- DARK SAND AND BEACH SAND WITH A FEW SHELLS
- LOOSE BEACH GRAVEL
- CLAY WITH SEA SHELLS
- LIGHTLY DAMP STICKY SILTY GRAY CLAY WITH SHELLS
- CLAY
- BEDROCK
- EOH

T.H.-15B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- DARK SAND AND BEACH SAND WITH A FEW SHELLS
- SILTY CLAY WITH BEACH SHELLS
- CLAY WITH BEACH SHELLS
- DENSE TILL CLAY WITH GRAVELS
- BEDROCK
- EOH

T.H.-16B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT MUSKEG
- LOG OR STUMP
- COARSE VERY DENSE TILL
- COARSE VERY DENSE TILL
- EOH
- REFUSAL AT 15.5'

T.H.-17B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- PEAT, ROOTS, ORGANIC
- ROOT WOOD FRAGMENTS
- BEACH SAND WITH SHELLS
- DENSE TILL
- BEDROCK CORED TO ROCK REFUSAL AT 17.5'
- EOH

T.H.-19B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- TILL CLAY WITH GRAVEL
- BEACH SAND WITH GRANITE COBBLES
- EOH
- NOTE: ARTESIAN FLOOR

T.H.-18B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- PEAT OVERBURDEN
- TILL WITH COBBLES
- CASING PUSHED COBBLE NO RECOVERY IN SPLIT SPOON
- SILTY CLAY WITH BEACH SHELLS
- MEDIUM DENSE TILL WITH GRAVEL AND SMALL COBBLES
- MEDIUM DENSE TILL WITH GRAVEL
- BEDROCK CORED 2'
- EOH

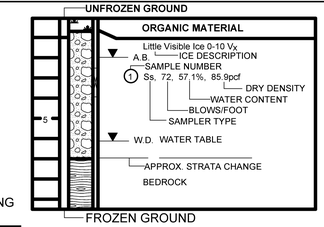
T.H.-21B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- DARK SAND AND BEACH SAND WITH A FEW SHELLS
- SILTY CLAY WITH BEACH SHELLS
- CLAY WITH BEACH SHELLS
- BOULDER OR BEDROCK 102 BLOWS IN 6" EOH=18.5'

T.H.-23B
SOIL DESCRIPTION
CORE DRILL 10/4/10

- ORGANIC PEAT
- WATER TABLE 1'
- TILL CLAY WITH GRAVEL AND A FEW COBBLES
- TILL WITH 2-4" COBBLES
- BEDROCK
- EOH

EXPLANATION



A.B.-AFTER BORING
W.D.-WHILE DRILLING/DIGGING

TYPICAL SOILS LOG

Ss	1.4" SPLIT SPOON WITH 140 LB. HAMMER
Sz	1.4" SPLIT SPOON WITH 340 LB. HAMMER
Sh	2.5" SPLIT SPOON WITH 340 LB. HAMMER
Sp	2.5" SPLIT SPOON, PUSHED
A	AUGER SAMPLE
Ts	SHELBY TUBE
Tm	MODIFIED SHELBY TUBE
Bs	BULK SAMPLE

SAMPLER TYPE SYMBOLS

ORGANIC MATERIAL · GRAVEL · SAND & GRAVEL · CLAY · COBBLES & BOULDERS · SILT · BEDROCK · SAND · TILL

SOIL SYMBOLS

SHALE

STATE OF ALASKA · 49th · ROBERT BADGETT · CE 12347 · 3/22/12 · REGISTERED PROFESSIONAL ENGINEER

R&M ENGINEERING–KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

Early Release Package

DEJA

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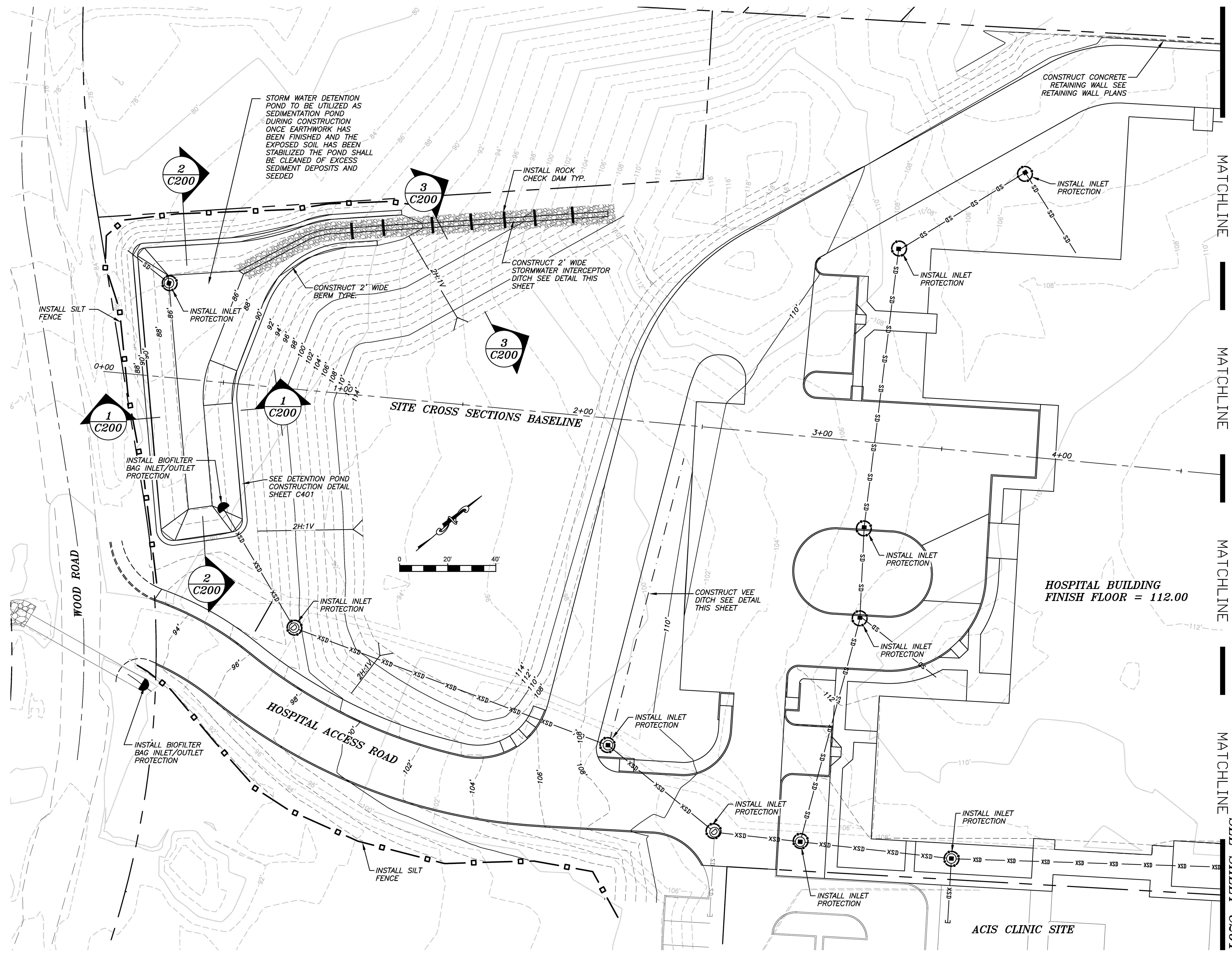
4551 Trousdale Drive/ 615.837.0656
Nashville, TN 37204 615.647.0657

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

PROJECT NUMBER
10528.00
DATE
March 21, 2012

C101
TEST HOLE DATA



EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION BY A REPRESENTATIVE OF THE OWNER, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. FOR LINEAR PROJECTS BASE MEASURES CAN BE INSTALLED IN PHASES PRIOR TO COMMENCEMENT OF CONSTRUCTION IN EACH PHASE

2. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.

3. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.

4. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING

5. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE: SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.

6. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF SHADY AREA GRASS MIXTURE UNLESS OTHERWISE SPECIFIED

7. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.

8. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.

9. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER ADEC APPROVED MEASURES.

10. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.

11. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25%%% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.

12. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

13. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

14. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

15. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.

16. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.

17. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.

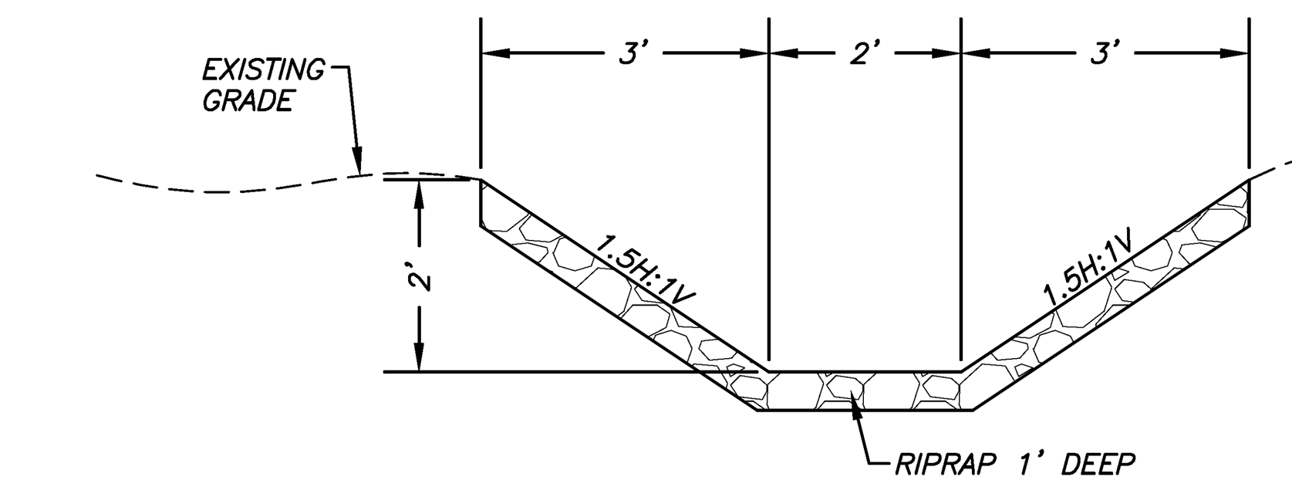
18. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM SYSTEM.

19. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.

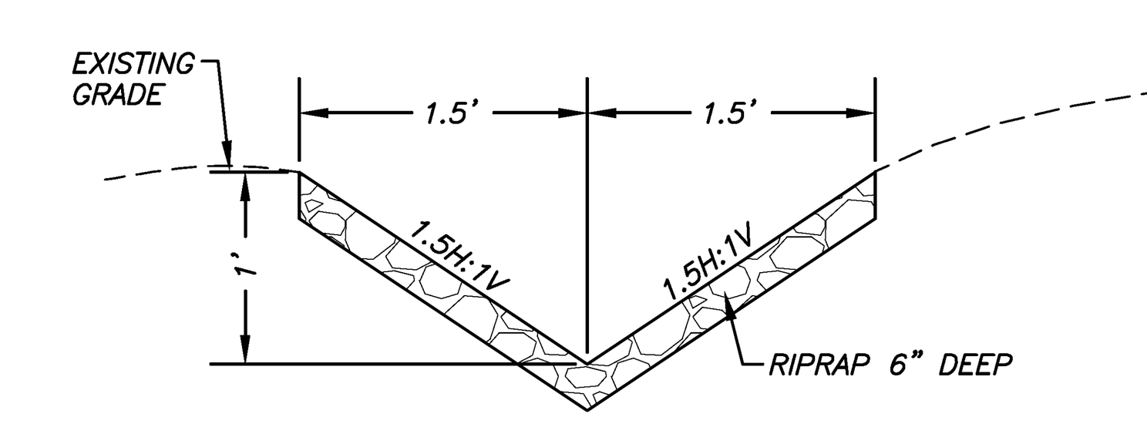
20. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

21. THIS PROJECT MAY REQUIRE TEMPORARY DIVERSION OF THE DRAINAGE CHANNEL. THE CONTRACTOR SHALL NOT INHIBIT FLOW IN THE DRAINAGE CHANNEL. THE CONTRACTOR MAY USE ONE OF THE FOLLOWING OPTIONS FOR THE CHANNEL DIVERSION: INFLATABLE HYDRAULIC RUBBER DAMS, SAND FILLED PRODUCT BAGS, OR OTHER APPROVED MEASURES. BYPASSING FLOW AROUND THE DIVERSION BY GRAVITY IS PREFERABLE BUT PUMPING IS ALLOWED. PUMPS SHALL BE LOW NOISE AND SHALL MEET ALL LOCAL NOISE ORDINANCES. THE CONTRACTOR SHALL SUBMIT A DIVERSION PLAN AND MANAGEMENT STRATEGY FOR LOCAL JURISDICTION APPROVAL 1-WEEK PRIOR TO COMMENCING WORK.

22. PROIR TO BEGINNING ANY GRADING ACTIVITIES THE CONTRACTOR SHALL PREPARE A SWPPP PLAN PER THE ADEC STANDARDS AND OBTAIN AN APDES PERMIT.



TYPICAL INTERCEPTOR DITCH SECTION
NOT TO SCALE



TYPICAL VEE DITCH SECTION
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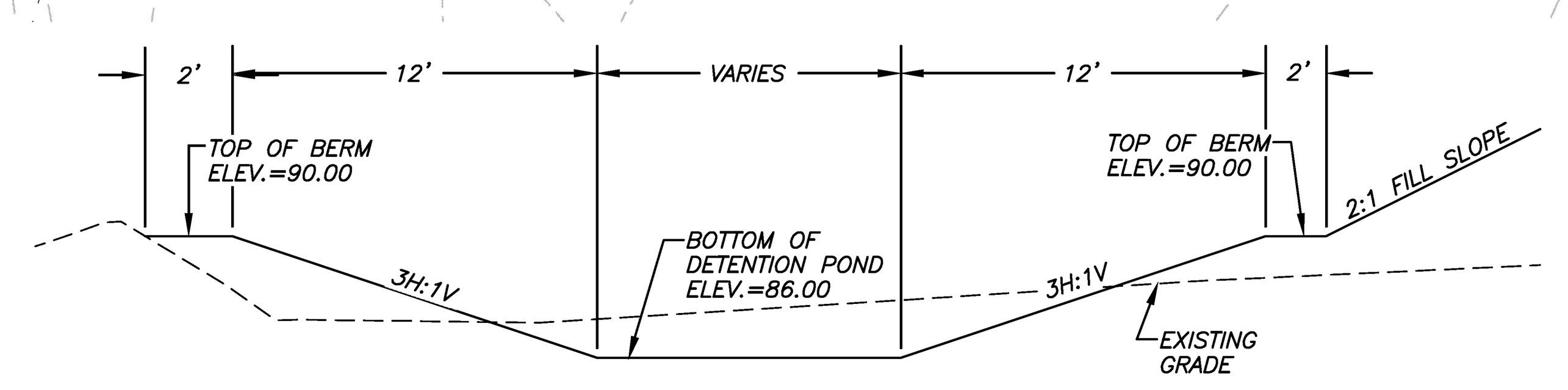

1 / C200 DETENTION POND SECTION
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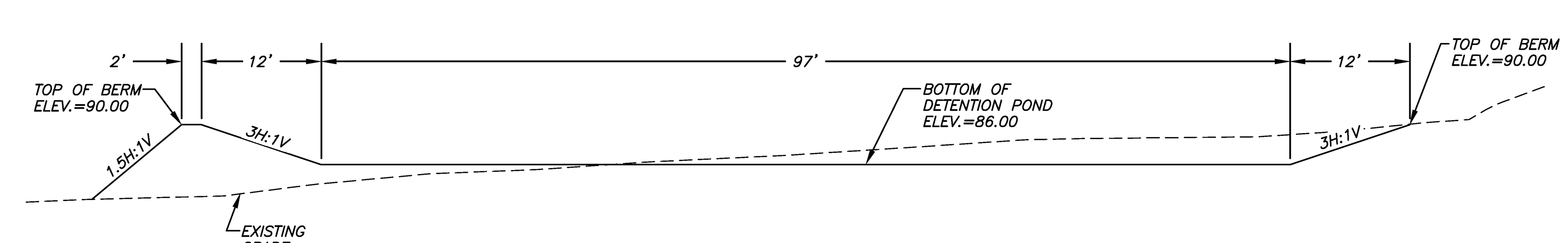

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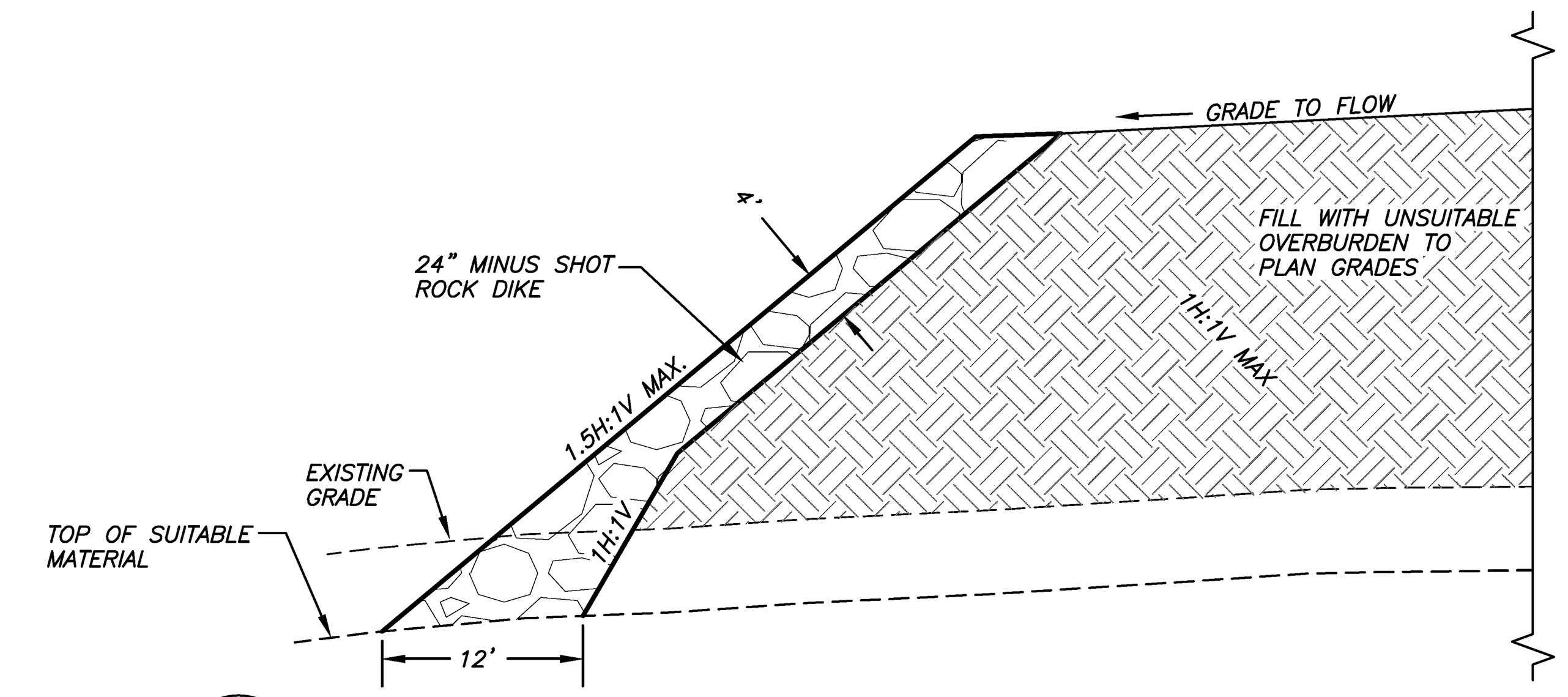

2 / C200 TYPICAL ROCK DIKE SECTION OF FILL AREA
NOT TO SCALE

LEGEND

- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- FINISHED GRADE CONTOUR
- FINISHED GRADE INDEX CONTOUR
- EXISTING EDGE OF GRAVEL
- EDGE OF ASPHALT / CONCRETE
- CURB
- STORM LINE
- EXISTING STORM LINE
- EXISTING STORM MANHOLE
- EXISTING STORM MANHOLE W/ GRATED RIM
- EXISTING STORM CATCHBASIN
- STORM CATCHBASIN
- STORM FLOW CONTROL MANHOLE

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A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFD AMERICAN HEALTH FACILITIES DEVELOPMENT

PROJECT NUMBER
10528.00
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March 21, 2012

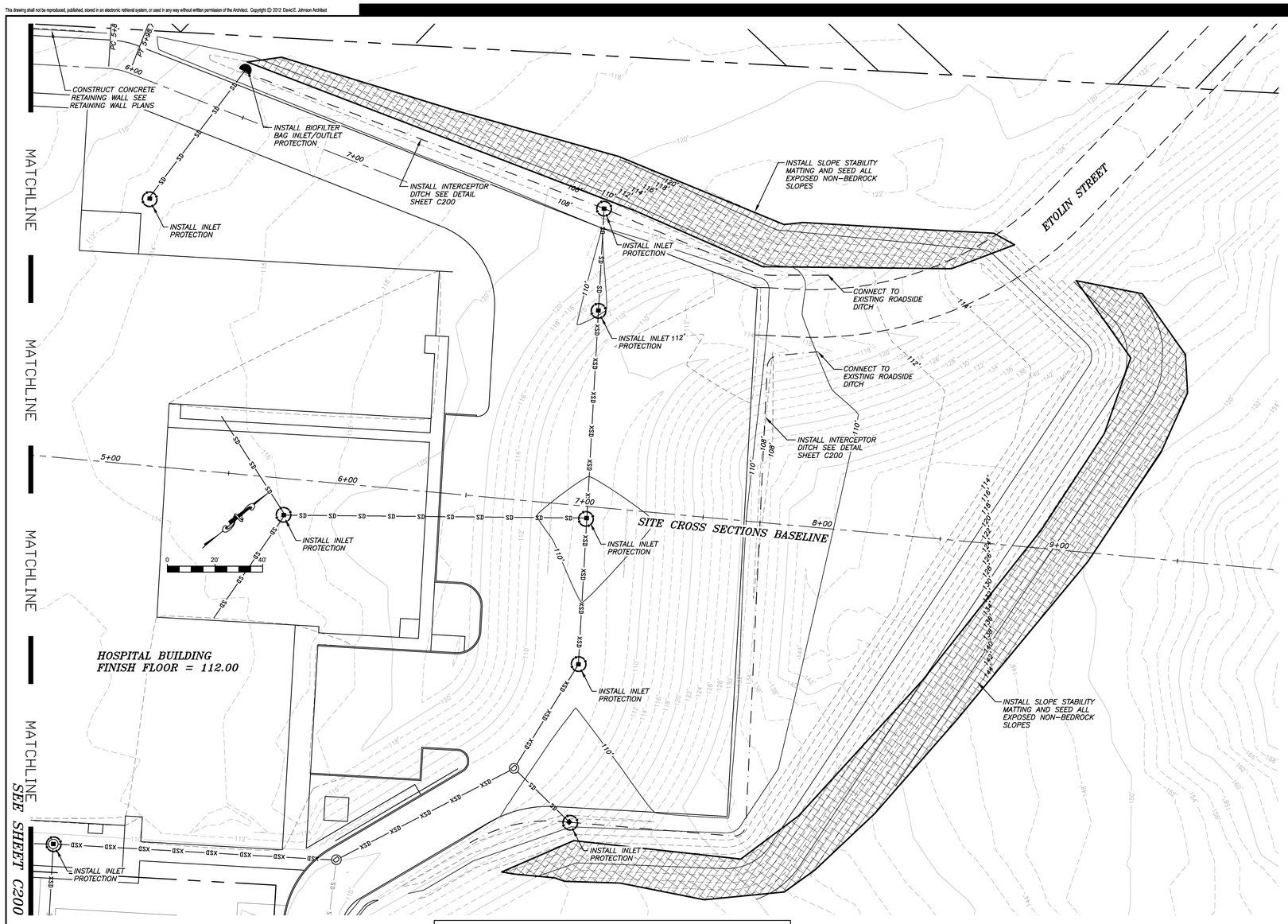
STATE OF ALASKA 49th ROBERT BADGETT CE 12347 3/22/12 REGISTERED PROFESSIONAL ENGINEER

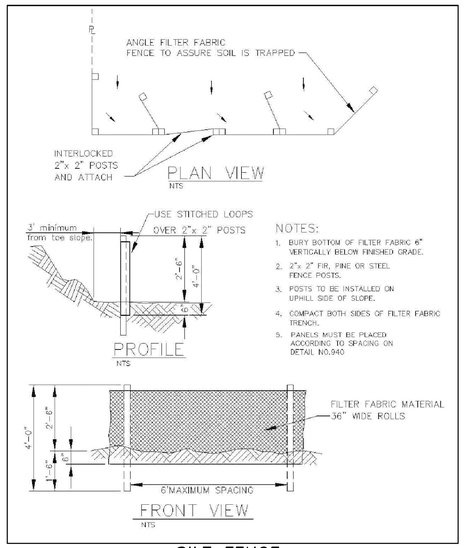
C200

GRADING AND EROSION CONTROL

R&M ENGINEERING-KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

Early Release Package





SILT FENCE
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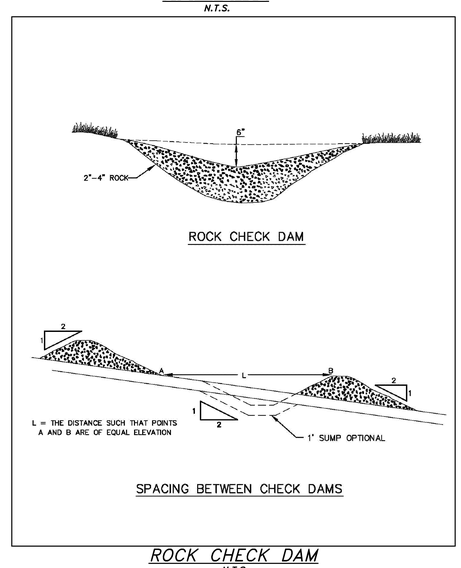

ROCK CHECK DAM
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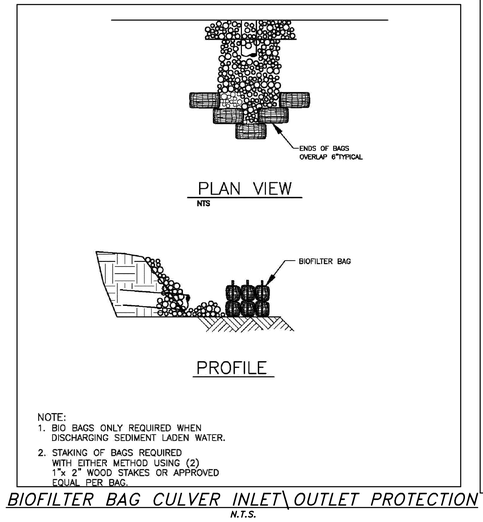

BIOFILTER BAG CULVER INLET\OUTLET PROTECTION
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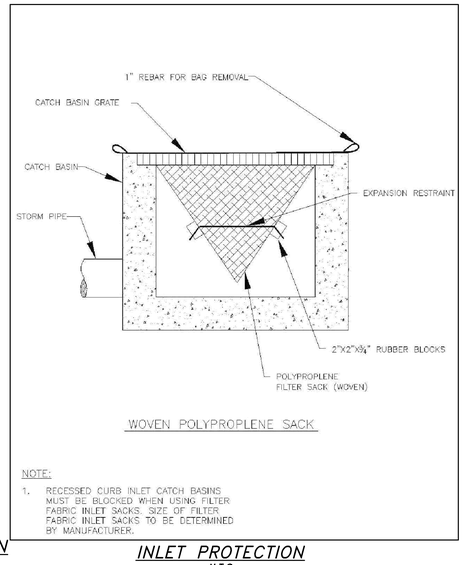

INLET PROTECTION
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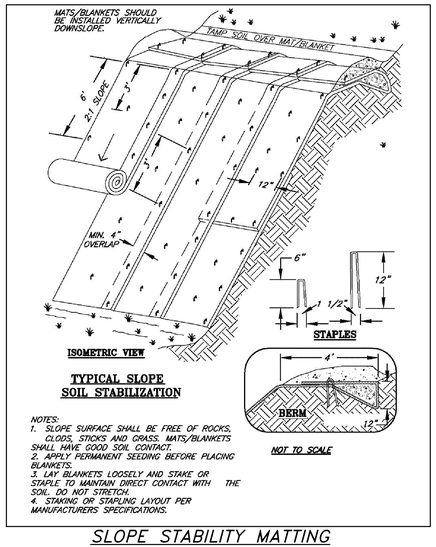

SLOPE STABILITY MATTING
N.T.S.

LEGEND

- EXISTING CONTOUR
- XXX EXISTING INDEX CONTOUR
- FINISHED GRADE CONTOUR
- XXX FINISHED GRADE INDEX CONTOUR
- EXISTING EDGE OF GRAVEL
- EDGE OF ASPHALT / CONCRETE
- CURB
- SD STORM LINE
- XSD EXISTING STORM LINE
- EXISTING STORM MANHOLE
- EXISTING STORM MANHOLE W/ GRATED RIM
- EXISTING STORM CATCHBASIN
- STORM CATCHBASIN
- STORM FLOW CONTROL MANHOLE

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A Replacement Facility for
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Wrangell, Alaska

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

PROJECT NUMBER
10528.00
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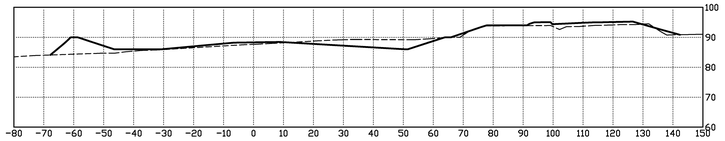
C201
GRADING AND EROSION CONTROL

STATE OF ALASKA 49th
Robert Badgett
ROBERT BADGETT
CE 12347
3/22/12
REGISTERED PROFESSIONAL ENGINEER

R&M
R&M ENGINEERING–KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

Early Release Package

0+50



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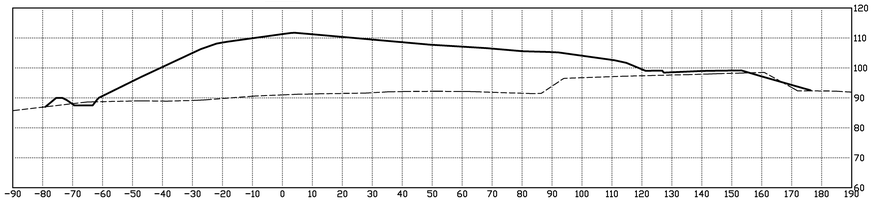

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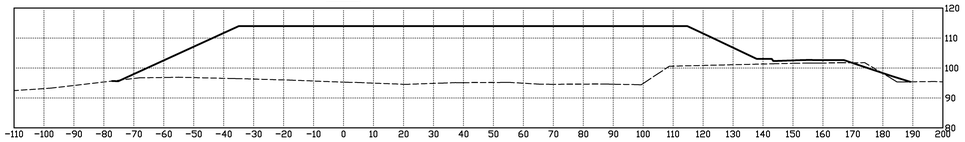

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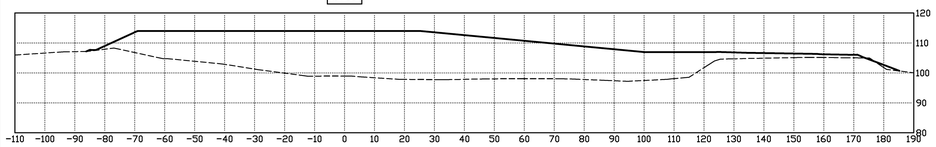

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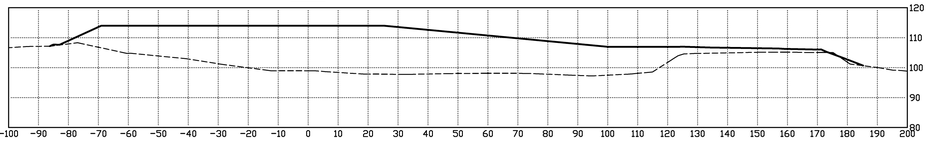

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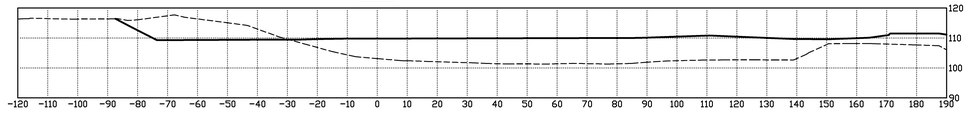

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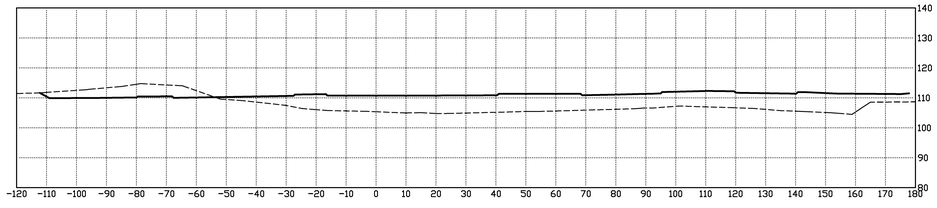

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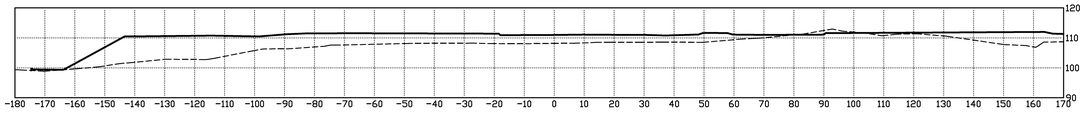

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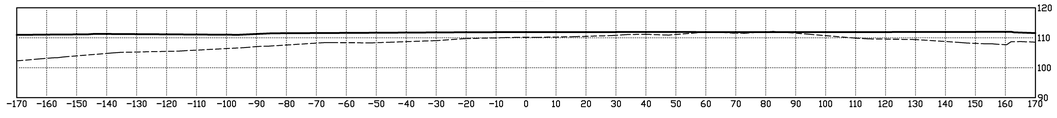

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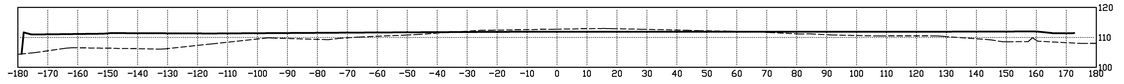

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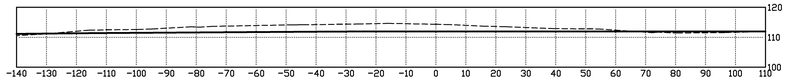

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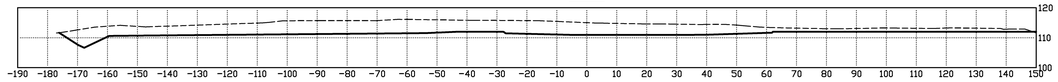

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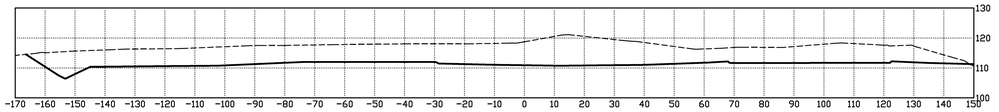

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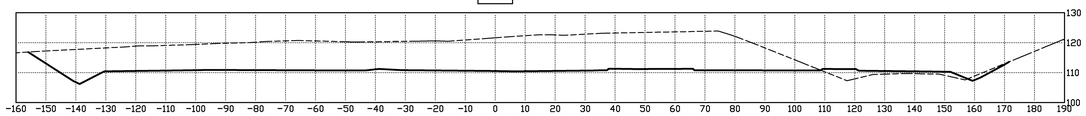

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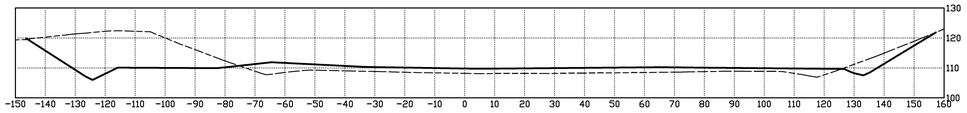

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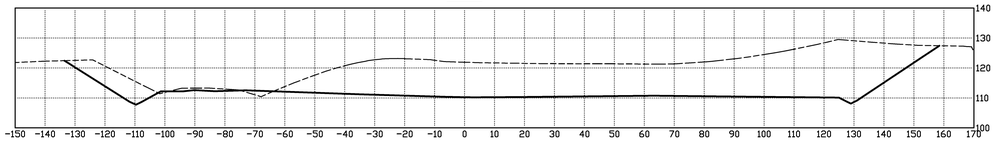

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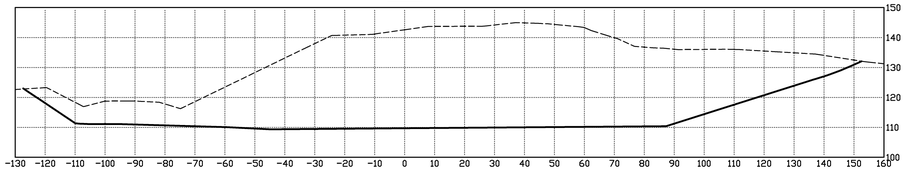

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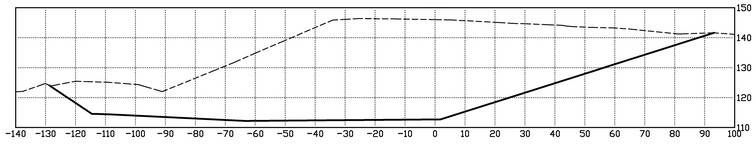

DEJA

A Replacement Facility for

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Wrangell, Alaska

David E. Johnson
Architect

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AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

PROJECT NUMBER
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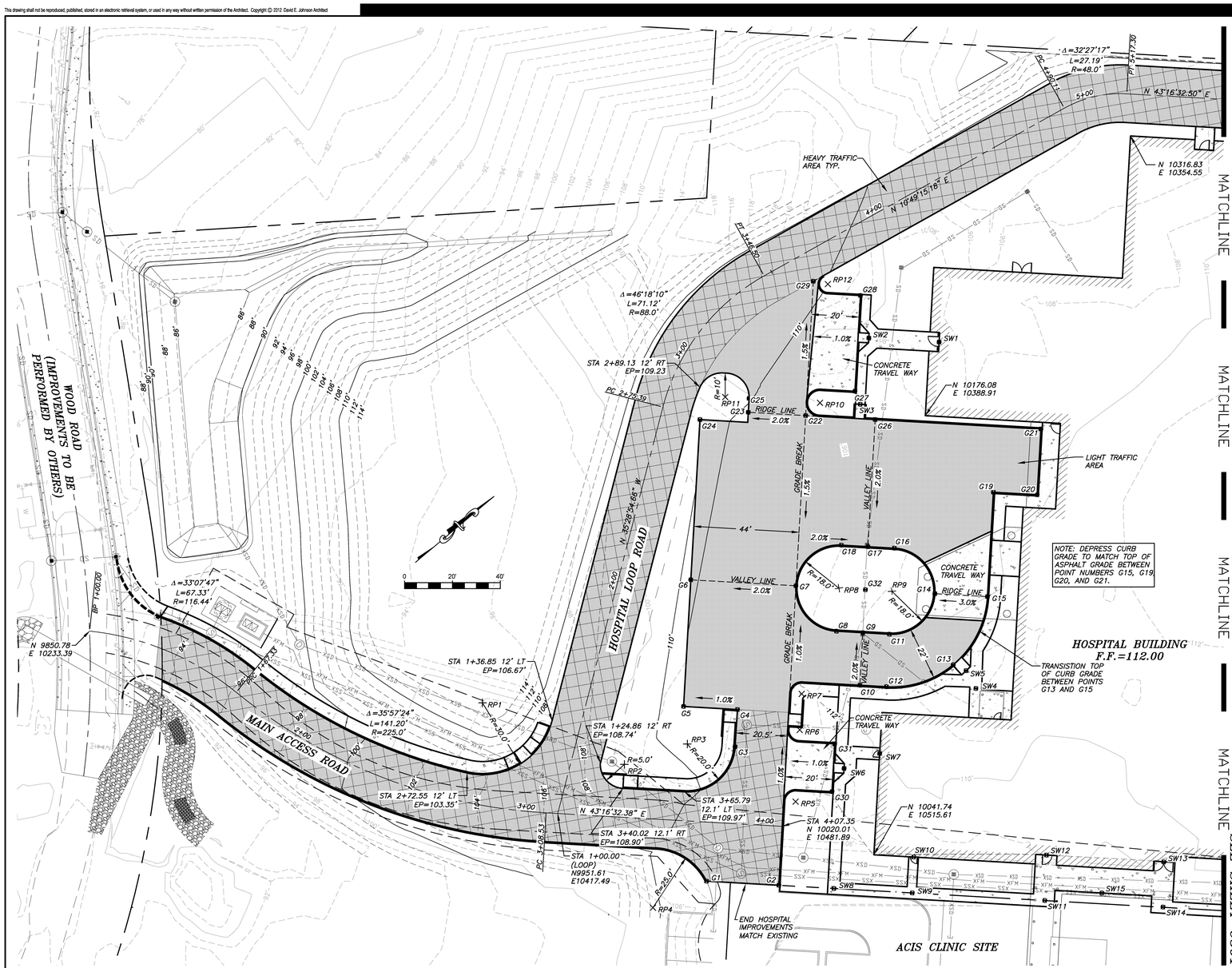
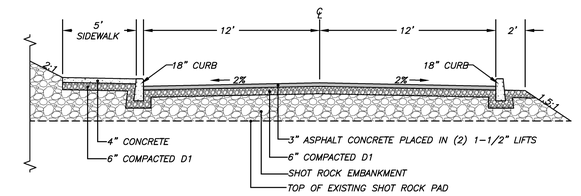
C202
SITE CROSS SECTIONS

STATE OF ALASKA
49th
ROBERT BADGETT
CE 12347
3/22/12
REGISTERED PROFESSIONAL ENGINEER

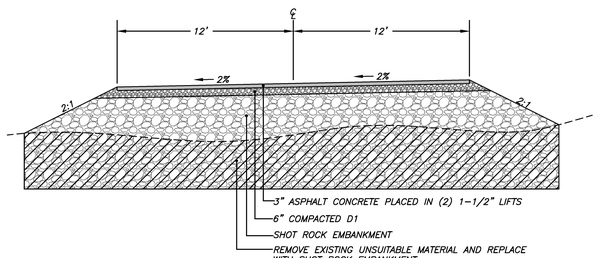
R&M ENGINEERING–KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

Early Release Package





HOSPITAL ACCESS ROAD SECTION
N.T.S.



HOSPITAL LOOP ROAD SECTION
N.T.S.

GRADING POINTS TABLE

POINT #	NORTHING	EASTING	ELEV.	POINT #	NORTHING	EASTING	ELEV.
G1	9981.0871	10479.1006	110.38	G33	10438.9903	10571.2811	110.42
G2	10003.1162	10499.8421	111.00	G34	10495.7442	10574.9255	110.20
G3	10026.3115	10443.7573	110.21	G35	10471.8893	10599.8589	109.85
G4	10037.0465	10432.4843	110.08	G36	10528.8247	10635.8564	112.30
G5	10020.6357	10417.0367	109.86	G37	10520.0452	10645.1808	112.36
G6	10056.9418	10378.4666	108.89	G38	10487.682	10679.5531	111.01
G7	10088.9942	10408.6109	109.77	G39	10439.6156	10634.2961	110.34
G8	10089.7989	10434.0543	109.57	G40	10407.8337	10604.3718	111.07
G9	10097.8127	10441.5972	109.37	G41	10394.7198	10592.0244	111.40
G10	10082.752	10457.597	109.81	G42	10367.2994	10621.1469	110.76
G11	10105.9064	10449.2151	109.57	G43	10412.1618	10663.38	109.71
G12	10090.8454	10465.2153	110.21	G44	10460.2646	10708.6724	110.38
G13	10118.1569	10476.1083	111.40	G45	10419.131	10752.3594	110.98
G14	10131.3507	10448.4456	111.04	G46	10371.0507	10707.0942	110.31
G15	10147.3768	10463.5176	111.70	G47	10333.4526	10671.6888	110.79
G16	10130.5812	10423.0016	109.67	G48	10347.5883	10671.2632	110.55
G17	10122.5215	10415.4156	109.47	G49	10354.4434	10663.9826	110.66
G18	10114.437	10407.8062	109.67	G50	10354.0178	10649.8468	110.91
G19	10177.3062	10431.7283	111.90	G51	10346.7341	10642.9888	111.06
G20	10190.6301	10444.2734	111.90	G52	10291.2521	10631.9549	111.80
G21	10209.4816	10424.2517	111.90	G53	10254.5774	10670.9063	111.80
G22	10137.801	10356.7617	110.82	G54	10288.0467	10702.4194	110.92
G23	10120.3244	10340.311	110.17	G55	10297.3011	10692.5905	110.80
G24	10102.8833	10329.6602	109.56	G56	10308.2558	10702.905	110.50
G25	10124.3005	10336.0869	110.02	G57	10303.9996	10711.4762	110.32
G26	10158.9755	10376.6884	110.53	G58	10298.2958	10734.8541	110.08
G27	10160.1325	10362.2158	110.86	G59	10236.6112	10724.4873	110.26
G28	10187.5488	10333.0895	110.18	G60	10240.5889	10700.8192	110.74
G29	10176.3059	10315.8566	109.98	G61	10204.8368	10712.8457	110.74
G30	10045.2443	10484.1709	110.82	G62	10222.3104	10729.2979	110.26
G31	10058.9546	10469.6095	110.62	G63	10328.8073	10752.018	109.58
G32	10110.1725	10428.5282	111.00	G64	10376.8565	10797.2588	110.36

ALL GRADES SHOWN ARE FINISHED GRADE TOP OF ASPHALT

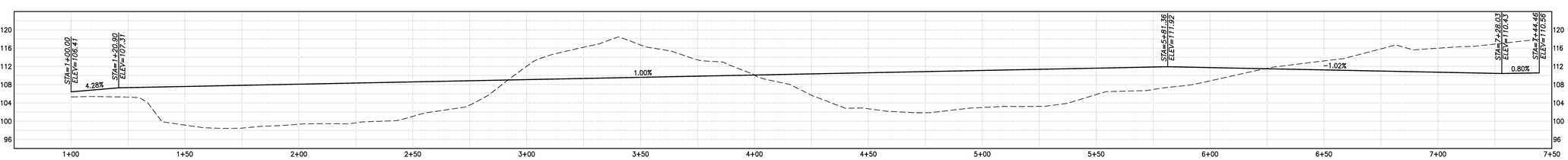
SIDEWALK & PAD GRADE POINTS

POINT #	NORTHING	EASTING	ELEV.
SW1	10200.25	10369.09	112.00
SW2	10178.83	10348.92	110.78
SW3	10158.29	10367.81	111.13
SW4	10119.04	10489.80	111.95
SW5	10120.64	10481.48	111.90
SW6	10055.38	10479.97	111.27
SW7	10070.77	10484.77	112.00
SW8	10019.92	10515.66	111.50
SW9	10043.77	10538.12	111.50
SW10	10053.87	10527.03	112.00
SW11	10084.14	10576.13	111.50
SW12	10096.86	10562.07	112.00
SW13	10132.56	10595.74	112.00
SW14	10120.22	10609.99	111.50
SW15	10104.42	10589.05	111.80
SW16	10186.03	10637.16	112.00
SW17	10168.60	10655.65	111.50
SW18	10252.99	10682.33	111.40
SW19	10253.42	10696.46	111.30
SW20	10351.04	10445.13	111.80

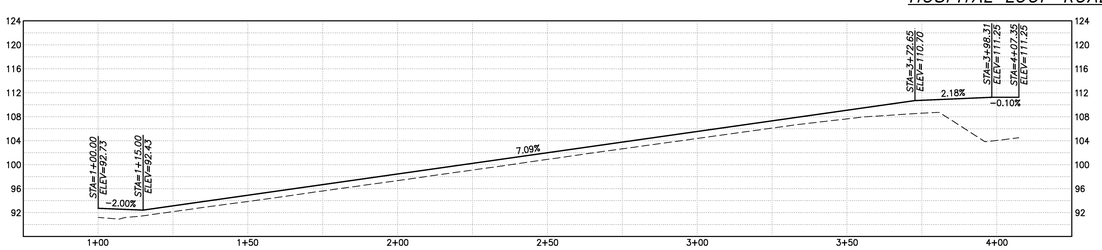
RADIUS POINT TABLE

RADIUS POINT #	NORTHING	EASTING	RADIUS POINT #	NORTHING	EASTING
RP1	9957.24	10361.90	RP11	10117.02	10329.23
RP2	9986.11	10419.68	RP12	10180.19	10320.67
RP3	10011.75	10430.05	RP13	10413.51	10547.29
RP4	9956.80	10473.19	RP14	10407.62	10597.30
RP5	10030.94	10477.58	RP15	10347.16	10657.13
RP6	10051.51	10455.73	RP16	10340.31	10664.41
RP7	10061.83	10444.77	RP17	10304.83	10706.55
RP8	10102.12	10420.93	RP18	10290.01	10784.16
RP9	10118.24	10436.11	RP19	10233.96	10740.27
RP10	10145.81	10356.52			

ALL RADII ARE 5' UNLESS OTHERWISE NOTED ON THE PLAN SHEET.



HOSPITAL LOOP ROAD PROFILE



HOSPITAL ACCESS ROAD PROFILE

LEGEND

- EXISTING CONTOUR
- XXX EXISTING INDEX CONTOUR
- FINISHED GRADE CONTOUR
- XXX FINISHED GRADE INDEX CONTOUR
- EXISTING EDGE OF GRAVEL
- EDGE OF ASPHALT / CONCRETE
- CURB
- SD STORM LINE
- XSD EXISTING STORM LINE
- SS SANITARY LINE
- XSS EXISTING SANITARY LINE
- XFM EXISTING SANITARY FORCE MAIN
- W WATER LINE
- XW EXISTING WATER LINE
- D EXISTING STORM MANHOLE
- EXISTING STORM MANHOLE W/ GRATED RIM
- EXISTING STORM CATCHBASIN
- STORM CATCHBASIN
- S SANITARY MANHOLE
- WATER VALVE
- EXISTING WATER VALVE
- FIRE HYDRANT
- STORM FLOW CONTROL MANHOLE

STATE OF ALASKA 49th ROBERT BADGETT CE 12347 3/22/12 REGISTERED PROFESSIONAL ENGINEER

R&M ENGINEERING–KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

Early Release Package

DEJA

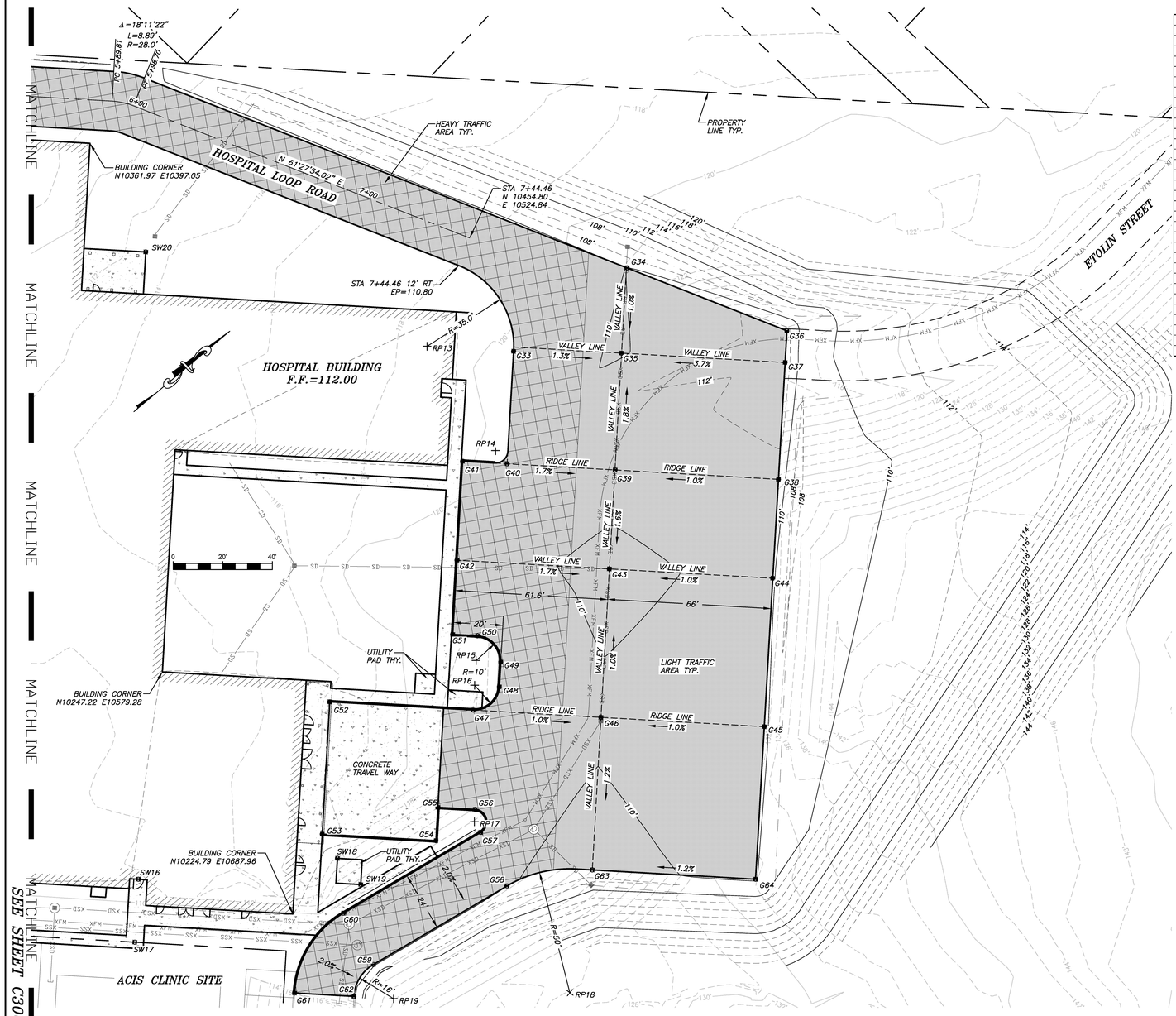
David E. Johnson Architect
4551 Trousdale Drive/ 615.837.0856
Nashville, TN 37204 fax 615.837.0857

A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

PROJECT NUMBER
10528.00
DATE
March 21, 2012

C300
PAVING PLAN



GRADING POINTS TABLE

POINT #	NORTHING	EASTING	ELEV.	POINT #	NORTHING	EASTING	ELEV.
G1	9981.0871	10479.1006	110.38	G33	10438.9903	10571.2811	110.42
G2	10003.1162	10499.8421	111.00	G34	10495.7442	10574.9255	110.20
G3	10026.3115	10443.7573	110.21	G35	10471.8893	10599.8589	109.85
G4	10037.0465	10432.4843	110.08	G36	10528.8247	10635.8564	112.30
G5	10020.6357	10417.0367	109.86	G37	10520.0452	10645.1808	112.36
G6	10056.9418	10378.4666	108.89	G38	10487.682	10679.5531	111.01
G7	10088.9942	10408.6109	109.77	G39	10439.6156	10634.2961	110.34
G8	10089.7989	10434.0543	109.57	G40	10407.8337	10604.3718	111.07
G9	10097.8127	10441.5972	109.37	G41	10394.7198	10592.0244	111.40
G10	10082.752	10457.597	109.81	G42	10367.2994	10621.1469	110.76
G11	10105.9064	10449.2151	109.57	G43	10412.1618	10663.38	109.71
G12	10090.8454	10465.2153	110.21	G44	10460.2646	10708.6724	110.38
G13	10118.1569	10476.1083	111.40	G45	10419.131	10752.3594	110.98
G14	10131.3507	10448.4456	111.04	G46	10371.0507	10707.0942	110.31
G15	10147.3768	10463.5176	111.70	G47	10333.4526	10671.6888	110.79
G16	10130.5812	10423.0016	109.67	G48	10347.5883	10671.2632	110.55
G17	10122.5215	10415.4156	109.47	G49	10354.4434	10663.9826	110.66
G18	10114.437	10407.8062	109.67	G50	10354.0178	10649.8468	110.91
G19	10177.3062	10431.7283	111.90	G51	10346.7341	10642.9888	111.06
G20	10190.6301	10444.2734	111.90	G52	10291.2521	10631.9549	111.80
G21	10209.4816	10424.2517	111.90	G53	10254.5774	10670.9063	111.80
G22	10137.801	10356.7617	110.82	G54	10288.0467	10702.4194	110.92
G23	10120.3244	10340.311	110.17	G55	10297.3011	10692.5905	110.80
G24	10102.8833	10329.6602	109.56	G56	10308.2558	10702.905	110.50
G25	10124.3005	10336.0869	110.02	G57	10303.9996	10711.4762	110.32
G26	10158.9755	10376.6884	110.53	G58	10298.2958	10734.8541	110.08
G27	10160.1325	10362.2158	110.86	G59	10236.6112	10724.4873	110.26
G28	10187.5488	10333.0895	110.18	G60	10240.5889	10700.8192	110.74
G29	10176.3059	10315.8566	109.98	G61	10204.8368	10712.8457	110.74
G30	10045.2443	10484.1709	110.82	G62	10222.3104	10729.2979	110.26
G31	10058.9546	10469.6095	110.62	G63	10328.8073	10752.018	109.58
G32	10110.1725	10428.5282	111.00	G64	10376.8565	10797.2588	110.36

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- XXX EXISTING INDEX CONTOUR
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- SS SANITARY LINE
- XSS EXISTING SANITARY LINE
- XFM EXISTING SANITARY FORCE MAIN
- W WATER LINE
- XW EXISTING WATER LINE
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- EXISTING STORM CATCHBASIN
- STORM CATCHBASIN
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- WATER VALVE
- EXISTING WATER VALVE
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SIDEWALK & PAD GRADE POINTS

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SW10	10053.87	10527.03	112.00
SW11	10084.14	10576.13	111.50
SW12	10096.86	10562.07	112.00
SW13	10132.56	10595.74	112.00
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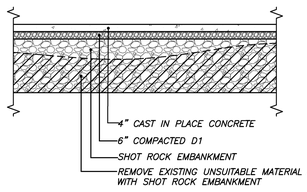
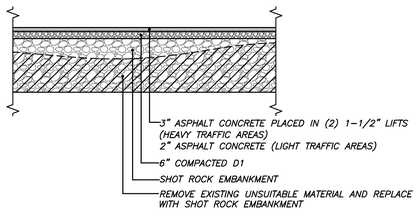
SW20	10351.04	10445.13	111.80



TYPICAL SIDEWALK SECTION
N.T.S.



TYPICAL PAVEMENT SECTION
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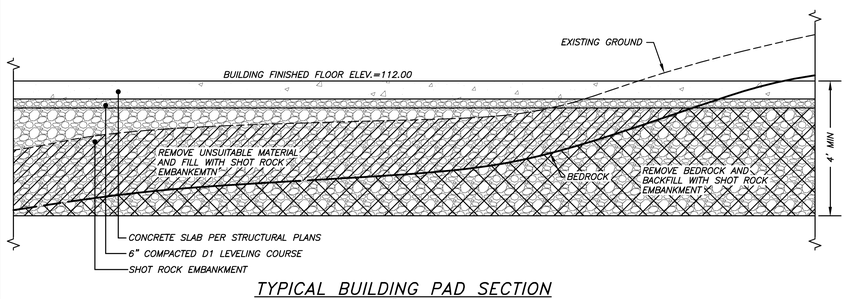

TYPICAL BUILDING PAD SECTION
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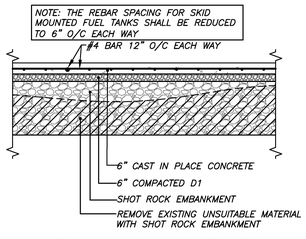


TYPICAL CONCRETE TRAVEL WAY AND UTILTITY PAD SECTION
N.T.S.

DEJA
David E. Johnson Architect
4551 Trousdale Drive/ Nashville, TN 37204
615.837.0856
615.837.0857

A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

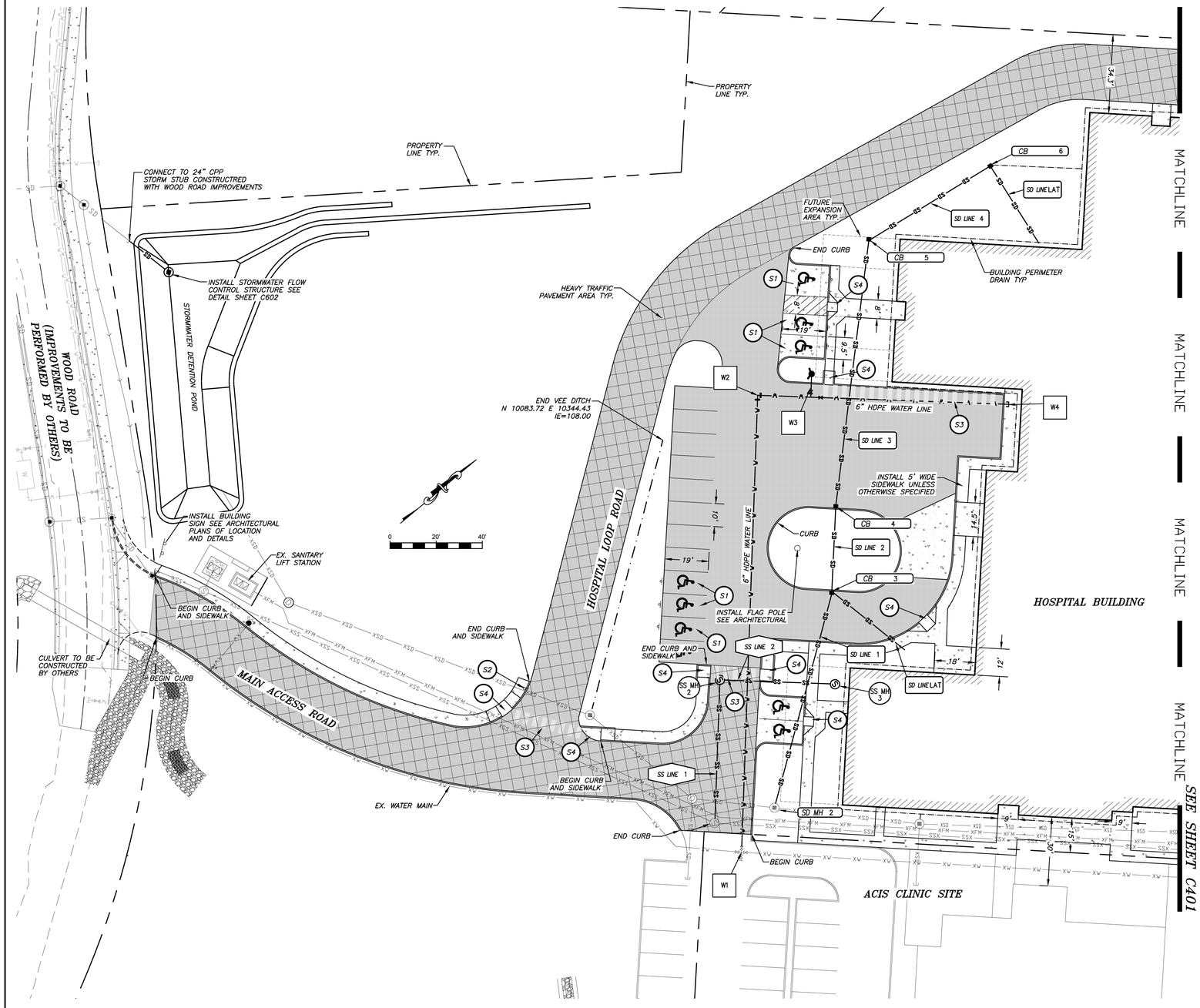
PROJECT NUMBER
10528.00
DATE
March 21, 2012

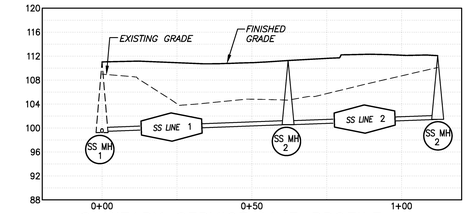
C301
PAVING PLAN

STATE OF ALASKA 49th Robert Badgett ROBERT BADGETT CE 12347 4/22/13 REGISTERED PROFESSIONAL ENGINEER

R&M
R&M ENGINEERING–KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

Early Release Package





SANITARY SERVICE LINE PROFILE

SANITARY CONSTRUCTION NOTES

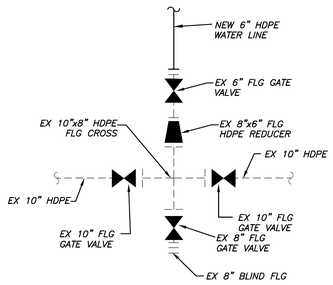
SS MH 1	SS MH 2	SS MH 2
EX. SAN MH STA 0+00.00 RIM=111.03 IE IN=99.42 N 9982.93 E 10415.43	INSTALL 48" MH STA 0+62.11 RIM=110.85 IE IN=100.78 IE OUT=100.58 N10035.91 E10439.93	INSTALL 48" MH STA 1+12.02 RIM=111.90 IE OUT=101.70 N10072.90 E10473.44
SS LINE 1	**SS LINE 2**	
INSTALL 58 LF 8" SDR 35 PVC S=0.02	INSTALL 46 LF 8" SDR 35 PVC S=0.02	

SEE STANDARY SANITARY SEWER CONSTRUCTION DETAIL SHEET C601

WATER CONSTRUCTION NOTES

W1	W2	W3	W4
CONNECT TO EX. 6" GATE VALVE SEE WATER CONNECTION DETAIL 1/C400 N 9994.95 E 10503.14	INSTALL: (1) 90° FLG BEND N 10127.76 E 10355.94	INSTALL: (1) FIRE HYDRANT ASSEBLY SEE DETAIL SHEET C602 N 10144.85 E 10371.36	END 6" WATER LINE WITH BLIND FLG N 10208.58 E 10428.86

SEE STANDARD WATER CONSTRUCTION DETAIL SHEET C600



1 / C400 WATER CONNECTION DETAIL
NOT TO SCALE

HANDICAP AND PEDESTRIAN ACCESS NOTES

S1	S2	S3	S4
CONSTRUCT HADICAP PARKING SPACE AND SIGN PER DETAILS 1&2 ON SHEET C603	CONSTRUCT 36"x36" STOP SIGN PER MUTCD STANDARDS AND DETAIL 2 ON SHEET C603	CONSTRUCT PEDESTRIAN CROSS WALK STRIPING WITH STOP BAR PER MUTCD STANDARDS	CONSTRUCT HADICAP RAMP PER DETIAL 5 ON SHEET C603

STORM CONSTRUCTION NOTES

SD MH 1	SD MH 2	CB 3	CB 4	CB 5	SD LINE LAT
EX STORM MH W/ WITH GRATED RIM RIM=106.67 GRADE DITCH TO DRAIN TO MANHOLE	CONNECT TO . EX. STORM MH RIM=109.80 NEW IE IN=103.81	INSTALL TYPE IV CB RIM=109.37' IE=105.69 N 10097.29 E 10442.14	INSTALL TYPE IV CB RIM=109.47' IE=106.05 N 10122.73 E 10414.59	INSTALL TYPE IV CB W/ BEEHIVE GRATE RIM=110.25' IE=107.20 N 10208.13 E 10335.08	CONNECT TO ROOF DOWNSPOUTS INSTALL 8" CPP LENGHT=AS NEEDED S=0.005 MIN. SEE MECHANICAL PLANS FOR DOWNSPOUT LOCATIONS
SD LINE 1	**SD LINE 2**	**SD LINE 3**	**SD LINE 4**	**CB 6**	
INSTALL 94 LF 18" CPP S=0.02	INSTALL 36 LF 18" CPP S=0.01	INSTALL 115 LF 18" CPP S=0.01	INSTALL 60 LF 18" CPP S=0.01	INSTALL TYPE IV CB W/ BEEHIVE GRATE RIM=110.50', IE=107.80 N 10268.88 E 10344.59	

SEE STANDARD STORM DRAINAGE CONSTRUCTION DETAIL SHEET C602 AND TYPICAL TRENCH DETAIL SHEET C601

LEGEND

- EXISTING CONTOUR
- XXX EXISTING INDEX CONTOUR
- FINISHED GRADE CONTOUR
- XXX FINISHED GRADE INDEX CONTOUR
- EXISTING EDGE OF GRAVEL
- EDGE OF ASPHALT / CONCRETE
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STATE OF ALASKA 49th
ROBERT BADGETT CE 12347 3/22/12
REGISTERED PROFESSIONAL ENGINEER

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355 CARLANNA LAKE ROAD

Early Release Package

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A Replacement Facility for
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AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

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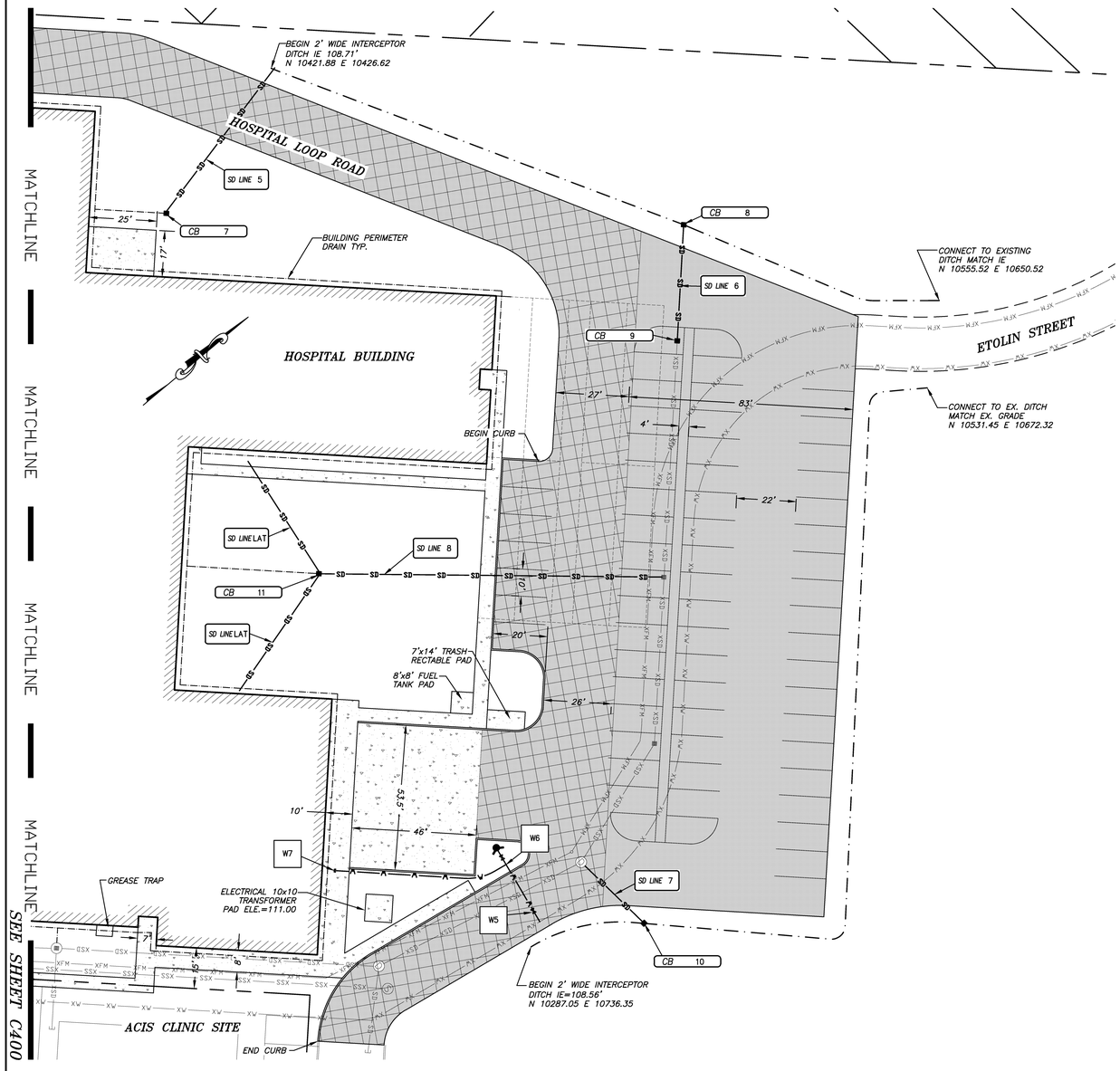
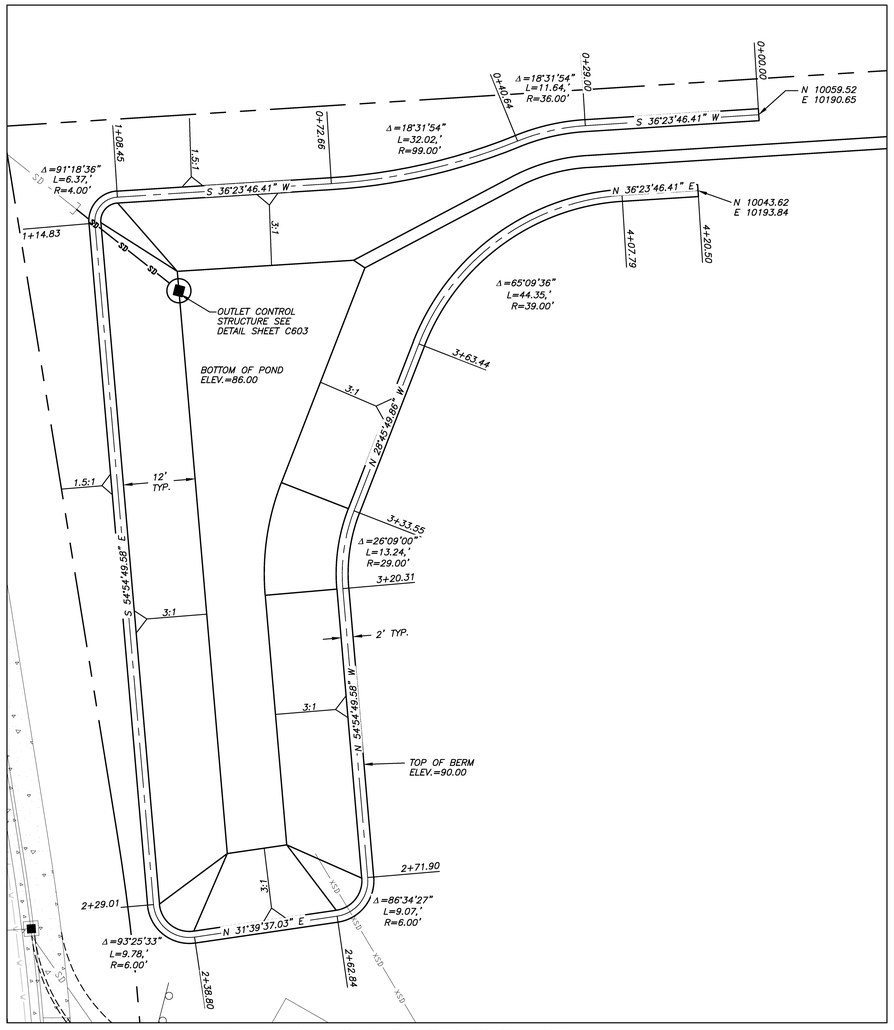
C400
SITE AND UTILITY PLAN



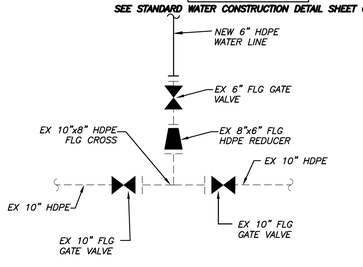


DETENTION POND CONSTRUCTION DETAIL
N.T.S.

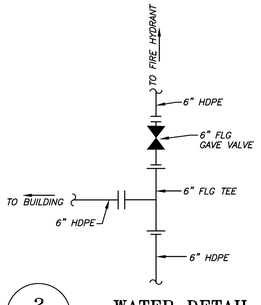
WATER CONSTRUCTION NOTES

W5	W6	W7
CONNECT TO EX. SEE WATER CONNECTION DETAIL 1/C401 THIS SHEET N 10297.13 E 10721.36	INSTALL FIRE HYDRANT ASSEBLY AND TEE SEE DETAIL SHEET C602 AND WATER DETAIL 2/C401 N 10299.51 E 10707.18	END 6" WATER LINE WITH BLIND FLG N 10249.56 E 10668.18

SEE STANDARD WATER CONSTRUCTION DETAIL SHEET C600



1 / C401 WATER CONNECTION DETAIL
NOT TO SCALE



2 / C401 WATER DETAIL
NOT TO SCALE

STORM CONSTRUCTION NOTES

CB 7 INSTALL TYPE IV CB W/ BEEHIVE GRATE RIM=111.00' IE=109.04 N 10357.91 E 10442.73	SD LINE 5 INSTALL 65 LF 12" CPP S=0.005	SD LINE LAT CONNECT TO ROOF DOWNSPOUTS INSTALL 8" CPP LENGHT=AS NEEDED S=0.005 MIN. SEE MECHANICAL PLANS FOR DOWNSPOUT LOCATIONS
CB 8 INSTALL TYPE IV CB W/ BEEHIVE GRATE RIM=107.84' IE=105.34 N 10501.33 E 10568.56	SD LINE 6 INSTALL 45 LF 18" CPP S=0.005	
CB 9 INSTALL TYPE IV CB RIM=109.85 IE=105.12 N 10471.98 E 10599.81		
CB 10 INSTALL TYPE IV CB W/ BEEHIVE GRATE RIM=108.57 IE=104.00 N 10324.55 E 10756.46	SD LINE 7 INSTALL 30 LF 18" CPP S=0.005	
CB 11 INSTALL TYPE IV CB W/ BEEHIVE GRATE RIM=110.5 IE=105.95 N 10351.59 E 10580.66	SD LINE 8 INSTALL 126 LF 18" CPP S=0.01	

SEE STANDARD STORM DRAINAGE CONSTRUCTION DETAIL SHEET C602 AND TYPICAL TRENCH DETAIL SHEET C601

LEGEND

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- XXX EXISTING INDEX CONTOUR
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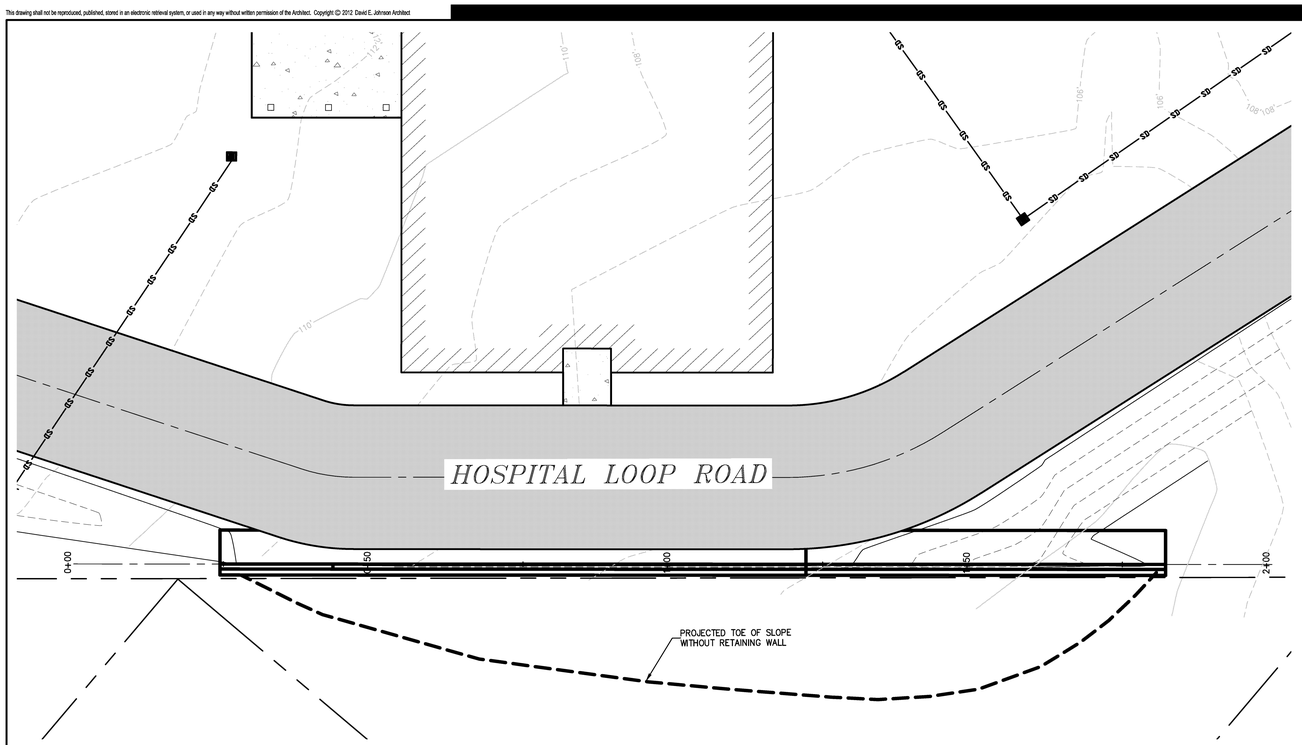

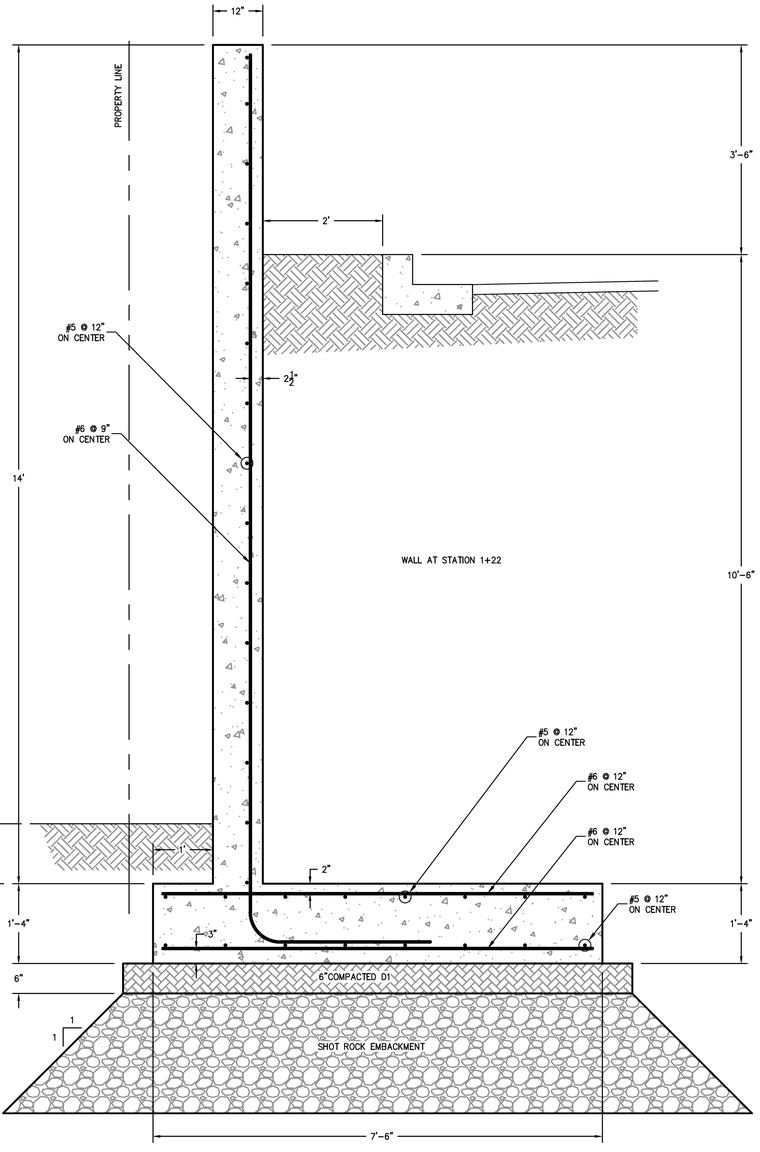

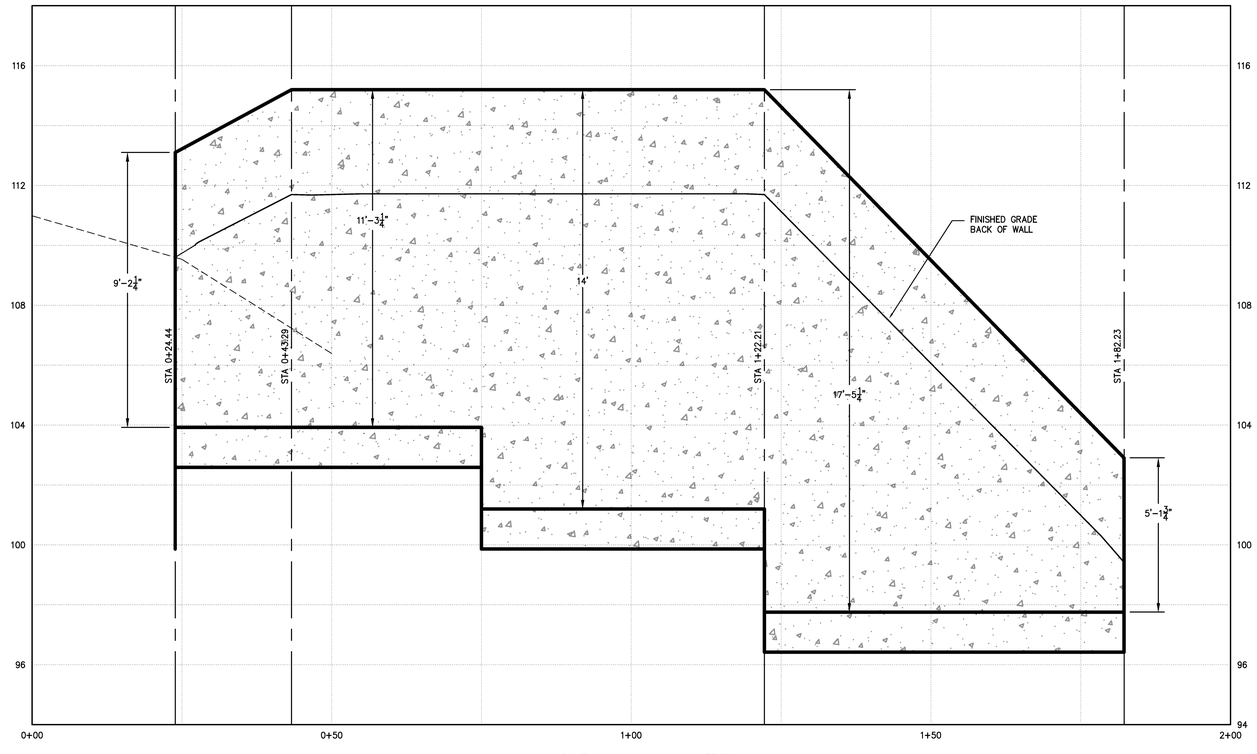

Profile View of Retaining Wall
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'
VERTICAL EXAGGERATION: 5

DEJA

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A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

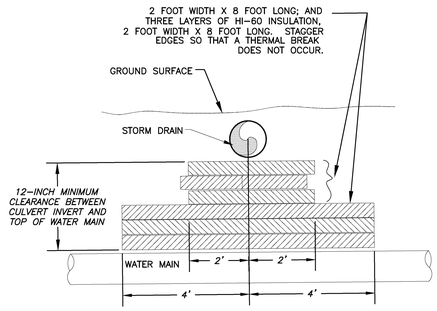
PROJECT NUMBER
10528.00
DATE
March 21, 2012

C500
RETAINING WALL PLAN AND SECTIC

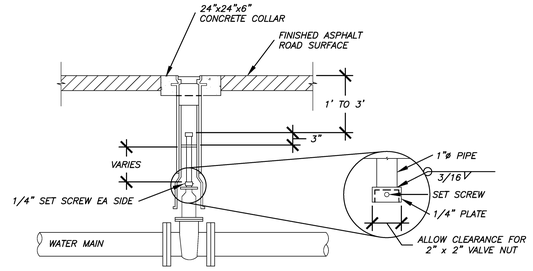
STATE OF ALASKA 49th
ROBERT BADGETT CE 12347 3/22/12
REGISTERED PROFESSIONAL ENGINEER

R&M
R&M ENGINEERING–KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

Early Release Package



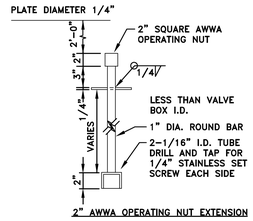
1 C600 RIGID INSULATION DETAIL
NOT TO SCALE



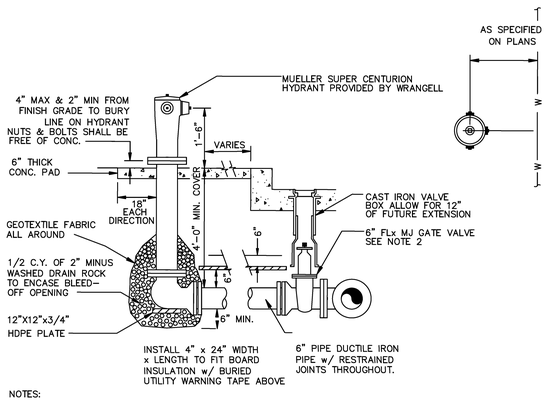
NOTE: EXTENSION IS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS 6 FT OR MORE BELOW FINISHED SURFACE.

NOTES:
1. NEW VALVE BOX TO ALLOW FOR 12" MINIMUM VERTICAL ADJUSTMENT
2. THREADED VALVE BOX SECTIONS ARE NOT ALLOWED. CONTRACTOR SHALL REMOVE THREADED PORTIONS OF THE VALVE BOX WITH CUT-OFF SAW
3. CONTRACTOR SHALL APPLY GREASE TO ALL INTERFACES BETWEEN VALVE BOX SECTIONS.
4. COMPACTION AROUND VALVE BOX INSTALLATION IS CRITICAL. CONTRACTOR SHALL EMPLOY MECHANICAL TAMPING METHODS TO ENSURE THAT MATERIAL AROUND VALVE BOX REACHES 95% OF MAXIMUM COMPACTION.
5. CONTRACTOR SHALL INSTALL A 6" MINIMUM THICKNESS OF D-1 BEDDING AROUND VALVE BOX DURING BACKFILL.
6. EXTENSION IS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS 6.0' OR MORE BELOW FINISHED SURFACE.

2 C600 MAIN LINE VALVE W/ OPERATING ROD TYP.
NOT TO SCALE

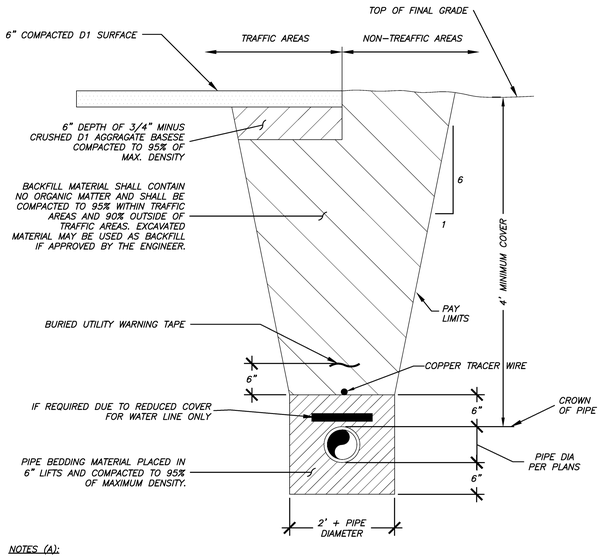


3 C600 VALVE EXTENSION
NOT TO SCALE



NOTES:
1. ALL BOLT THREADS TO BE GREASED PRIOR TO INSTALLATION.
2. MECHANICAL RESTRAINED JOINTS TO BE USED THROUGHOUT.
3. HYDRANT PAINT SHALL BE SPECIFIED BY THE ENGINEER.
4. DOUBLE DIPPED GALVANIZED NUTS AND BOLTS SHALL BE FREE OF CONCRETE.
5. PLACE BURIED UTILITY WARNING TAPE 6" ABOVE THE HYDRANT LEAD.
6. THRUST BLOCK MAY BE OMITTED IF PIPE BEYOND VALVE IS CONNECTED TOGETHER w/ RESTRAINED JOINTS 40 FEET EACH WAY
7. D-1 MUST BE PLACED AROUND ALL VALVE BOXES

4 C600 TYP. FIRE HYDRANT DETAIL
NOT TO SCALE



NOTES (A):

1. BACKFILL MATERIAL SHALL BE PLACED IN 12" MAXIMUM LIFTS AS STATED IN SPECIFICATIONS.
2. PIPE BEDDING MATERIAL MUST BE PLACED IN 6" MAX LIFTS BETWEEN COMPACTION.
3. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATION ONLY FOR IMPORTED BACKFILL GRAVEL AND RESURFACING REQUIREMENTS.
4. IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, ENGINEER MAY DIRECT THE CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.
5. THE DITCHLINE, IF ONE EXISTS, SHALL BE RESHAPED IN SUCH A MANNER TO ALLOW POSITIVE DRAINAGE TO MATCH PRE-CONSTRUCTION CONDITIONS.
6. TRENCH SECTION APPLICABLE FOR BOTH SEWER, WATER PIPE AND STORM.

NOTES (B):

1. INSULATION BOARD JOINTS SHALL BE LAPPED.
2. MINIMUM DEPTH OF COVER SHALL BE 3'-0" UNLESS SHOWN OTHERWISE ON DRAWINGS OR PRIOR APPROVAL IS GRANTED FROM ENGINEER.
3. ALL IINSULATION SHALL BE DOW HI-60 EXTRUDED POLYSTYRENE (BLUE BOARD) OR APPROVED EQUAL.

"H" DEPTH OF COVER	"T" INSULATION THICKNESS
4'0" OR GREATER	NONE REQUIRED
3'6" OR GREATER	2 INCHES
3'0" OR GREATER	4 INCHES

5 C600 TYPICAL WATER TRENCH DETAIL
NOT TO SCALE

DEJA

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AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

PROJECT NUMBER
10528.00
DATE
March 21, 2012

C600
WATER DETAILS

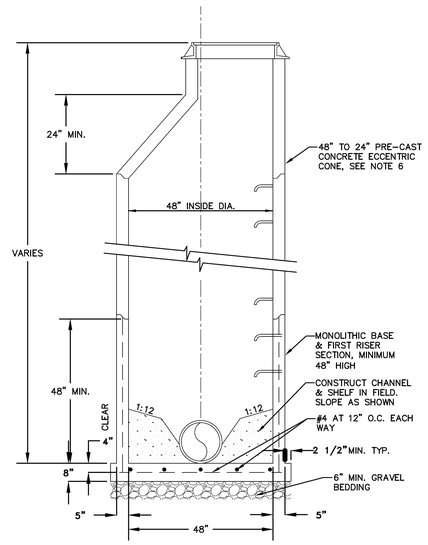
STATE OF ALASKA 49th Robert Badgett ROBERT BADGETT CE 12347 3/22/12 REGISTERED PROFESSIONAL ENGINEER

R&M
R&M ENGINEERING-KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

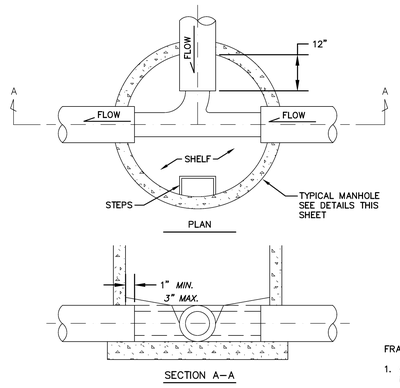
Early Release Package

SANITARY SEWER MANHOLE NOTES:

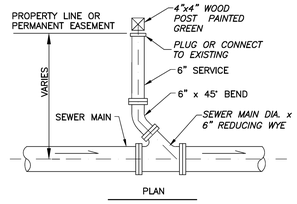
1. All manhole sections shall conform to ASTM C-478, latest edition, including minimum steel requirements. Steel shall be embedded in base so that first riser section is connected to base.
2. All joints shall include a pre-molded rubber gasket such as "Ram-Nek", or equal. The exterior of all joints shall be plastered with at least 1" of bentonite cement sealing plaster.
3. Channel depth shall be equal to the pipe diameter or greater. Channel and shelf shall have a broom finish.
4. Ends of pipe shall extend between 1" and 3" into the manhole.
5. Seal manhole at pipe connections as shown in Detail 7/D3 and as recommended by the seal manufacturer. No steel reinforcement shall extend into pipe openings.
6. When manhole height is less than 7', replace concrete cone section with pre-cast reducing slab. See Detail 9/D3.
7. Install orange utility marker per Detail 8/D5.
8. Manhole riser rings shall be LADTEC plastic risers. Joints on riser shall be watertight using butyl set in bed of mortar.
9. For manholes accepting a flexible connector for 30" C900sewer pipe, manholes shall be 60" inside diameter.

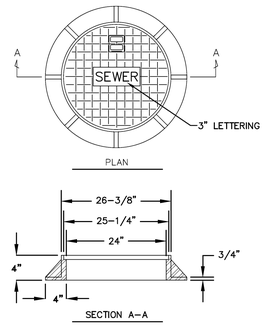


1 C601 TYPICAL SANITARY SEWER MANHOLE
NOT TO SCALE



2 C601 SEWER MANHOLE CHANNELING DETAIL
NOT TO SCALE

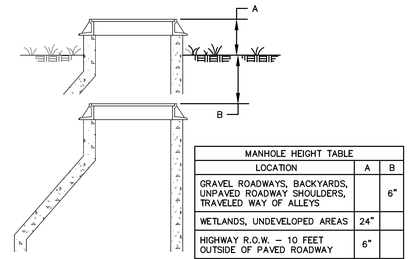




FRAME & COVER NOTES:

1. Cover and frame shall be heavy duty and rated for H-20 Loading. Minimum total weight shall be 360 pounds.
2. Lockdown bolts shall not be allowed.
3. Frame shall be machined to fit watertight cover. Cover shall have the word "SEWER" cast in, and shall be provided with an integral lift handle.
4. Frame and cover dimensions shall be in accordance with the guidelines indicated. Variations shall be approved by the Engineer.
5. All frames and covers shall be identical for all manhole installations.

3 C601 MANHOLE FRAME AND COVER
NOT TO SCALE

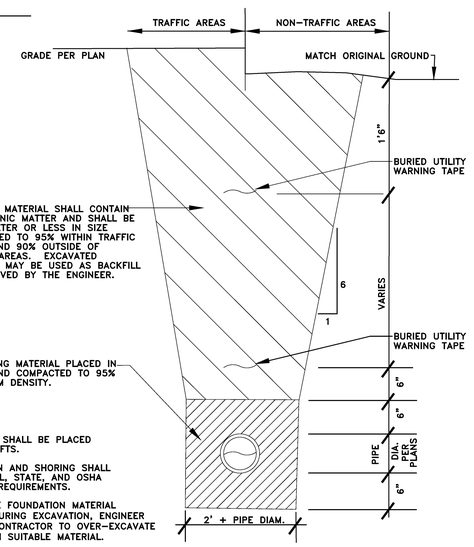


MANHOLE HEIGHT TABLE		
LOCATION	A	B
GRAVEL ROADWAYS, BACKYARDS, UNPAVED ROADWAY SHOULDERS, TRAVELED WAY OF ALLEYS		6"
WETLANDS, UNDEVELOPED AREAS	24"	
HIGHWAY R.O.W. – 10 FEET OUTSIDE OF PAVED ROADWAY	6"	
PAVED ROADWAYS, PAVED PARKING AREAS		1/4"

MANHOLE HEIGHT NOTES:

1. Where installed in paved roadways or paved parking areas, manhole lid shall conform to the grade and cross slope of the pavement. Dimension is to the top of embossed lettering if lettering is higher than the frame.
2. Typical manhole heights shall be applied to the top of any sanitary sewer cleanout covers installed.
3. Buried manholes or cleanouts shall be marked with an orange carsonite marker. See special provisions.

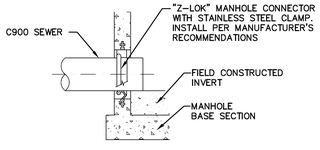
4 C601 TYPICAL MANHOLE HEIGHTS
NOT TO SCALE



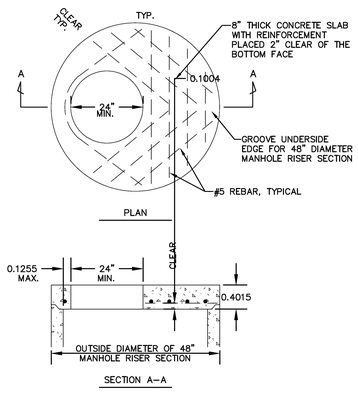
NOTES:

1. BACKFILL MATERIAL SHALL BE PLACED IN 12" MAXIMUM LIFTS.
2. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS.
3. IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, ENGINEER MAY DIRECT THE CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.
4. THE DITCH LINE, IF ONE EXISTS, SHALL BE RESHAPED IN SUCH A MANNER TO ALLOW POSITIVE DRAINAGE TO MATCH PRE-CONSTRUCTION CONDITIONS.
5. THIS DETAIL IS APPLICABLE TO STORM SEWER AND SANITARY SEWER INSTALLATION.
5. WARNING TAPE SHALL BE 6" WIDE METALLIC

7 C601 TYPICAL SANITARY AND STORM UTILITY TRENCH SECTION
NOT TO SCALE



6 C601 MANHOLE PIPE CONNECTION
NOT TO SCALE



7 C601 PRE-CAST REDUCING SLAB (48"-24")
NOT TO SCALE

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AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

PROJECT NUMBER
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C601
SANITARY DETAILS

STATE OF ALASKA
49th
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3/22/12
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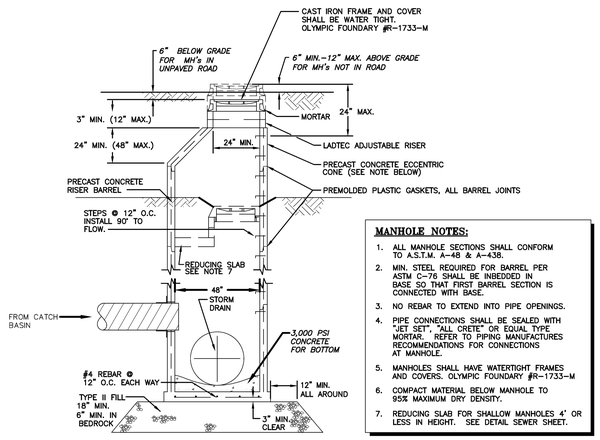
R&M ENGINEERING-KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

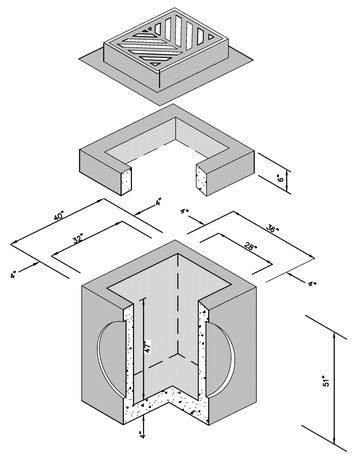
Early Release Package



MANHOLE NOTES:

1. ALL MANHOLE SECTIONS SHALL CONFORM TO A.S.T.M. A-48 & A-438.
2. MIN. STEEL REQUIRED FOR BARREL PER ASTM C-76 SHALL BE INBEDDED IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE.
3. NO REBAR TO EXTEND INTO PIPE OPENINGS.
4. PIPE CONNECTIONS SHALL BE SEALED WITH "JET SET", "ALL CRETE" OR EQUAL TYPE MORTAR. REFER TO PIPING MANUFACTURES RECOMMENDATIONS FOR CONNECTIONS AT MANHOLE.
5. MANHOLES SHALL HAVE WATERTIGHT FRAMES AND COVERS. OLYMPIC FOUNDARY #R-1733-M
6. COMPACT MATERIAL BELOW MANHOLE TO 95% MAXIMUM DRY DENSITY.
7. REDUCING SLAB FOR SHALLOW MANHOLES 4' OR LESS IN HEIGHT. SEE DETAIL SEWER SHEET.

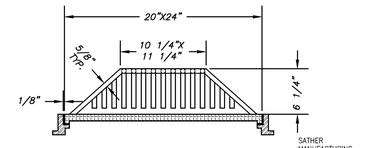
1 C602 48" DIAMETER STORM DRAIN MANHOLE
NOT TO SCALE



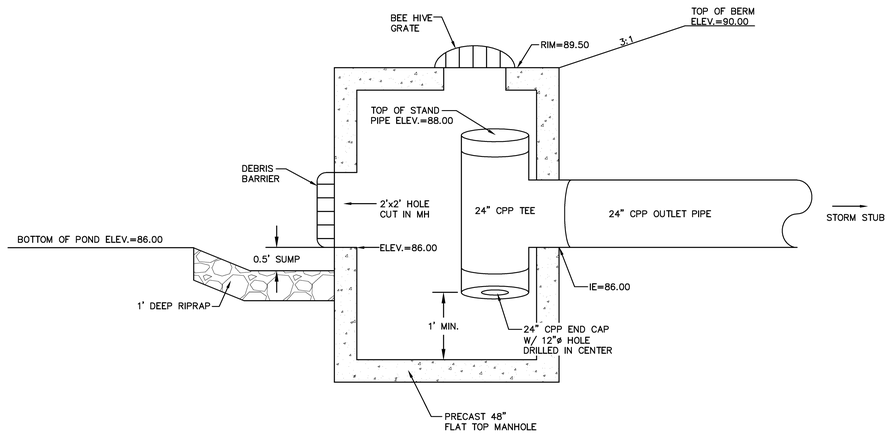
NOTES:

1) CATCH BASINS SCHEDULED TO HAVE FIELD INLETS SHALL HAVE OLYMPIC FOUNDRY 18"x22"x4" REVERSIBLE, PART NO. SM60 OR EQUAL.
2) CATCH BASINS SCHEDULED TO HAVE CURB INLETS SHALL HAVE NEENAH FOUNDRY TYPE R-3501-N INLET FOR ROLL TYPE CURB OR EQUAL.

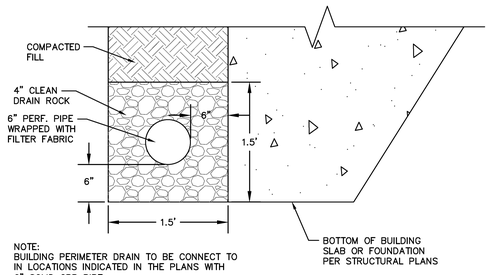
2 C602 TYPE IV CATCH BASIN
NOT TO SCALE



3 C602 SQUARE BEEHIVE CATCH BASIN
NOT TO SCALE



4 C602 OUTLET CONTROL STRUCTURE
NOT TO SCALE



NOTE:
BUILDING PERIMETER DRAIN TO BE CONNECT TO IN LOCATIONS INDICATED IN THE PLANS WITH 6" SOLID CPP PIPE.

5 C602 PERIMETER DRAIN DETAIL
NOT TO SCALE

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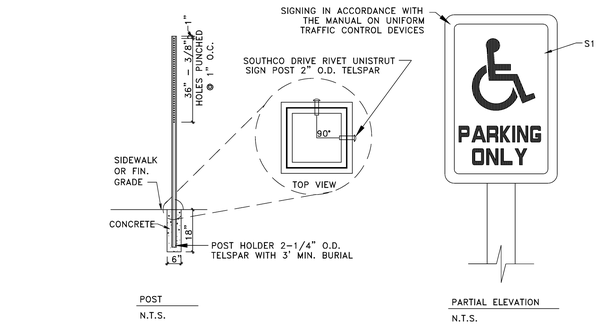
March 21, 2012

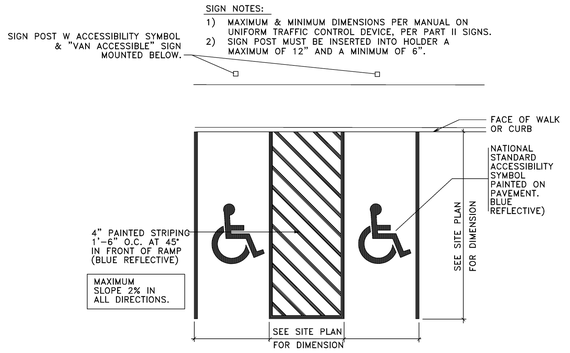
C602
STORM DETAILS

R&M ENGINEERING-KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

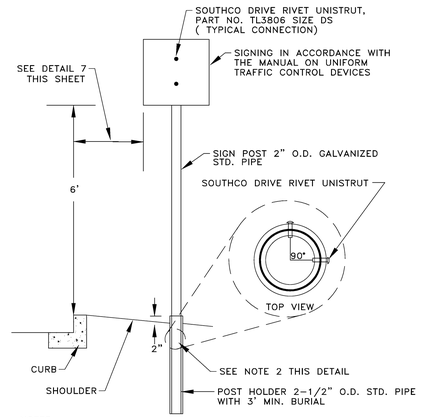
Early Release Package



SIGN NOTES:
1) MAXIMUM & MINIMUM DIMENSIONS PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE, PER PART II SIGNS.
2) SIGN POST MUST BE INSERTED INTO HOLDER A MAXIMUM OF 12" AND A MINIMUM OF 6".



1 / C603 HANDICAP PARKING
NOT TO SCALE

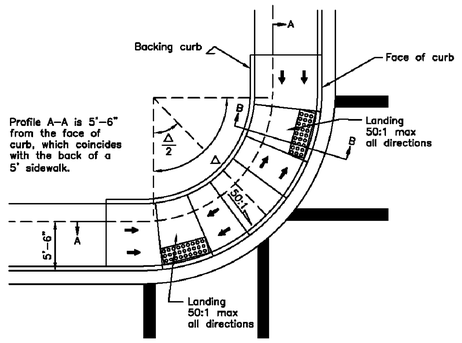


NOTES:
1) MAXIMUM & MINIMUM DIMENSIONS PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE, PER PART II SIGNS.
2) SIGN POST MUST BE INSERTED INTO HOLDER A MAXIMUM OF 12" AND A MINIMUM OF 6".
3) MOUNT STREET SIGNS WITH 2-3/8" ROUND POSTCAP. BLADE HOLDER TO BE 12" LENGTH

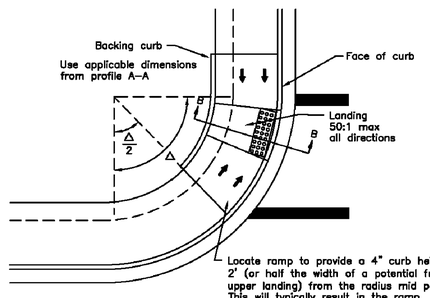
SIGN SCHEDULE

SIGN	No.	DESCRIPTION
S1	R7-8BL	RESERVED PARKING
S2	R7-8	RESERVED PARKING "VAN ACCESSIBLE"

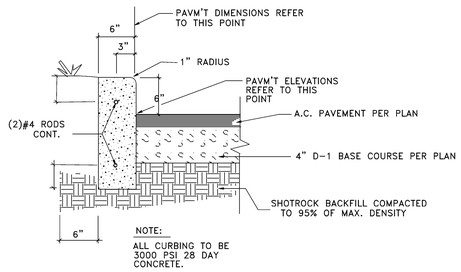
2 / C603 SIGNAGE DETAIL
NOT TO SCALE



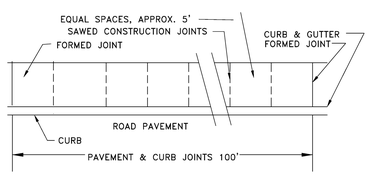
TWO CROSSING DIRECTIONS
At corner



ONE CROSSING DIRECTION
At corner



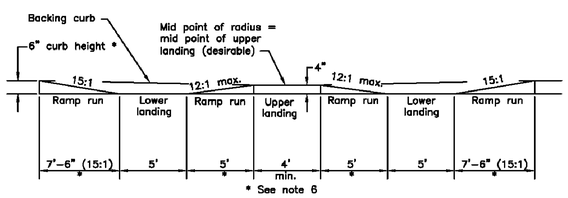
3 / C603 CONCRETE CURB
NOT TO SCALE



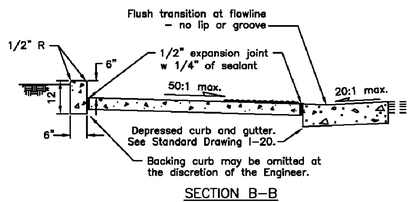
NOTE: LOCATE 1/4" X 3-1/4" PRE-MOLDED FILLER THROUGH THE SIDEWALK AT PAVEMENT AND MATCHING CURB JOINTS. THIS LENGTH SHALL BE DIVIDED INTO EQUAL SPACES BY SAWED OR FORMED CONTRACTION JOINTS 1" DEEP. ALL JOINTS SHALL BE SEALED WITH JOINT SEALING COMPOUND.

4 / C603 SIDEWALK JOINT DETAIL
NOT TO SCALE

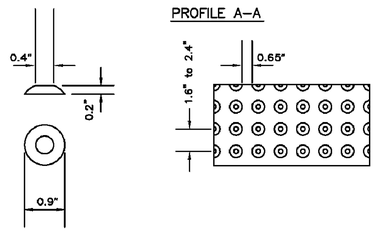
Truncated dome surface see note 11



PROFILE A–A

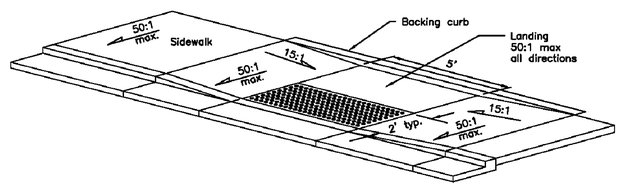


SECTION B–B



TRUNCATED DOME DETAIL

TEXTURE PATTERN DETAIL



MID–BLOCK

5 / C603 TYPICAL HANDICAP RAMP CONSTRUCTION DETAILS
NOT TO SCALE

GENERAL NOTES

1. Parallel curb ramps are typically used when the sidewalk is not wide enough for perpendicular ramps.
2. A single central curb ramp (not shown) should be used only when installing two ramps is not feasible. When used, slopes and dimensions should correspond with those shown on the mid–block detail.
3. See plans for ramp type at particular locations.
4. Construct ramp runs and landings of concrete, regardless of whether the sidewalk is asphalt or concrete.
5. Locate lower landings within the inner edges of marked crosswalks or, if crosswalks are not marked, within the area a standard marked crosswalk would enclose. See Standard Drawing T–23 for standard crosswalk layout.
6. Ramp run lengths shown pertain to 6" curb heights and no longitudinal sidewalk slope. For other heights and slopes, increase or decrease run lengths to maintain the slopes shown. In cases where sidewalk slope makes it necessary to lengthen a ramp run to avoid exceeding the allowable slope, it should not be made longer than 15 feet for a 6" curb height or, in general, 30 times the curb height. The slope resulting from that run length is acceptable, even if it exceeds the maximum slope shown.
7. If conditions require, the Engineer may increase the 15:1 slopes to 12:1 maximum.
8. The 12:1 and 50:1 slopes shown are the steepest slopes allowed by law (except as provided under note 6).
9. Concrete shall receive a coarse broomed finish running perpendicular to the curb on ramp runs and upper landings and parallel to the curb on lower landings.
10. Drainage inlets should not be located within marked crosswalks or, if crosswalks aren't marked, within the area a standard marked crosswalk would enclose. If that is unavoidable, accessible grates, with openings no greater than 1/2" in any direction, shall be used.
11. Install 24" wide strips of safety yellow cast–in–place composite detectable warning tiles with truncated dome detectable warning texture on the street side edge of lower landings as shown. Domes shall be in a square pattern. Align truncated dome pattern in the predominant direction of wheelchair travel to permit wheels to roll between the domes.

DEJA

A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

David E. Johnson
Architect
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Nashville, TN 37204 fax 615.837.0657

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

PROJECT NUMBER
10528.00
DATE
March 21, 2012

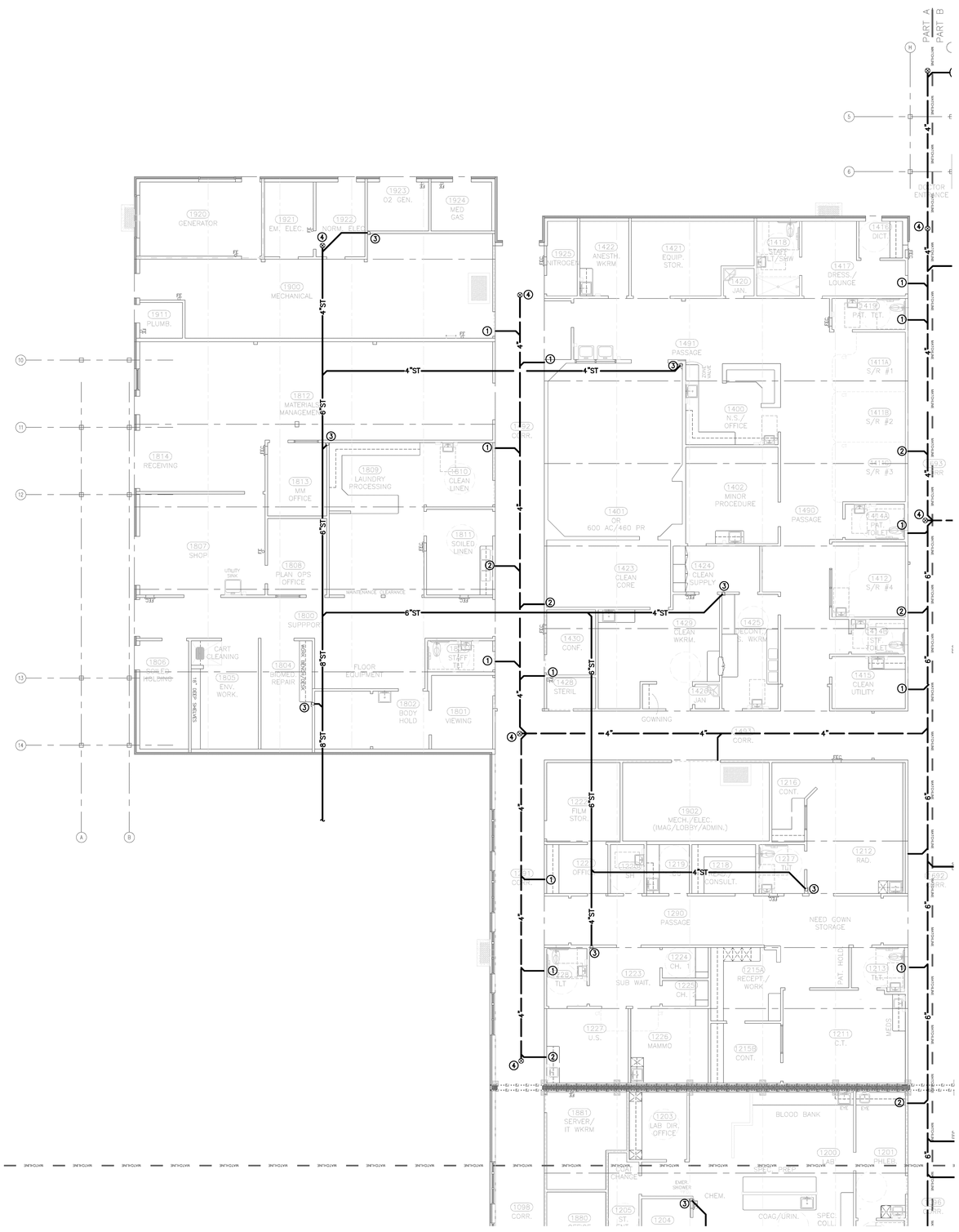
C603
STREET DETAILS

STATE OF ALASKA 49th
ROBERT BADGETT
CE 12347
3/22/12
REGISTERED PROFESSIONAL ENGINEER

R&M ENGINEERING–KETCHIKAN, INC.
355 CARLANNA LAKE ROAD

Early Release Package

enfinity engineering
9019 Overlook Boulevard, Suite C-4
Brentwood, Tennessee 37027
Phone: 615.377.0093
Fax: 615.377.0983
Enfinity Project # 10050



PLAN KEY NOTES

1. 4"WASTE PIPE TAKE OFF TO COMPONENT SECTION
2. 3"WASTE PIPE TAKE OFF TO COMPONENT SECTION
3. 4"RAINWATER LEADER, UP
4. PROVIDE GRADE CLEANOUT

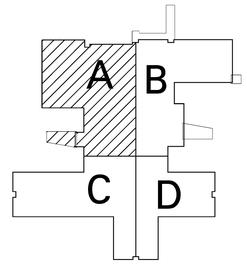
GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WORK WITH THAT OF OTHER TRADES.

WALL LEGEND-NOTED SHEETS

SYMBOL	DESCRIPTION	DOOR/DAMPER INFO.	PRIORITY
	NON-RATED PARTITION	-	(-)
	SMOKE-RESISTIVE PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(6TH)
	SMOKE-RESISTIVE PARTITION (SUITE)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(5TH)
	SMOKE RESISTIVE PARTITION (INCIDENTAL USE)	POSITIVE LATCH, CLOSER, NO DAMPERS	(4TH)
	1-HOUR SMOKE BARRIER (SMOKE COMP. SEPARATION)	20 MIN. CLOSER, S DAMPERS	(3RD)
	1-HOUR FIRE BARRIER (INCIDENTAL USE)	POSITIVE LATCH, 45-MIN. CLOSER, NO DAMPERS IF HVAC DUCTED	(2ND)
	2-HOUR FIRE WALL (CMU CONSTR./STR. INDEPENDENT)	POSITIVE LATCH, 90 MIN. CLOSER, F/S DAMPERS	(1ST)

*SEE DIMENSIONED SHEETS FOR SOUND WALL LOCATIONS.



KEYPLAN

PLUMBING UNDERGROUND PIPING - PART A

8' 0 8'

Fire Marshal Review Set

DEJA

A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

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AHFD AMERICAN HEALTH FACILITIES DEVELOPMENT

STATE OF ALASKA
49TH
THOMAS HUNTER DANIEL
No. ME12715
REGISTERED PROFESSIONAL ENGINEER
3/21/12

PROJECT NUMBER
10528.00
DATE
March 21, 2012

P1.0A

PLUMBING UNDERGROUND PIPING - PART A

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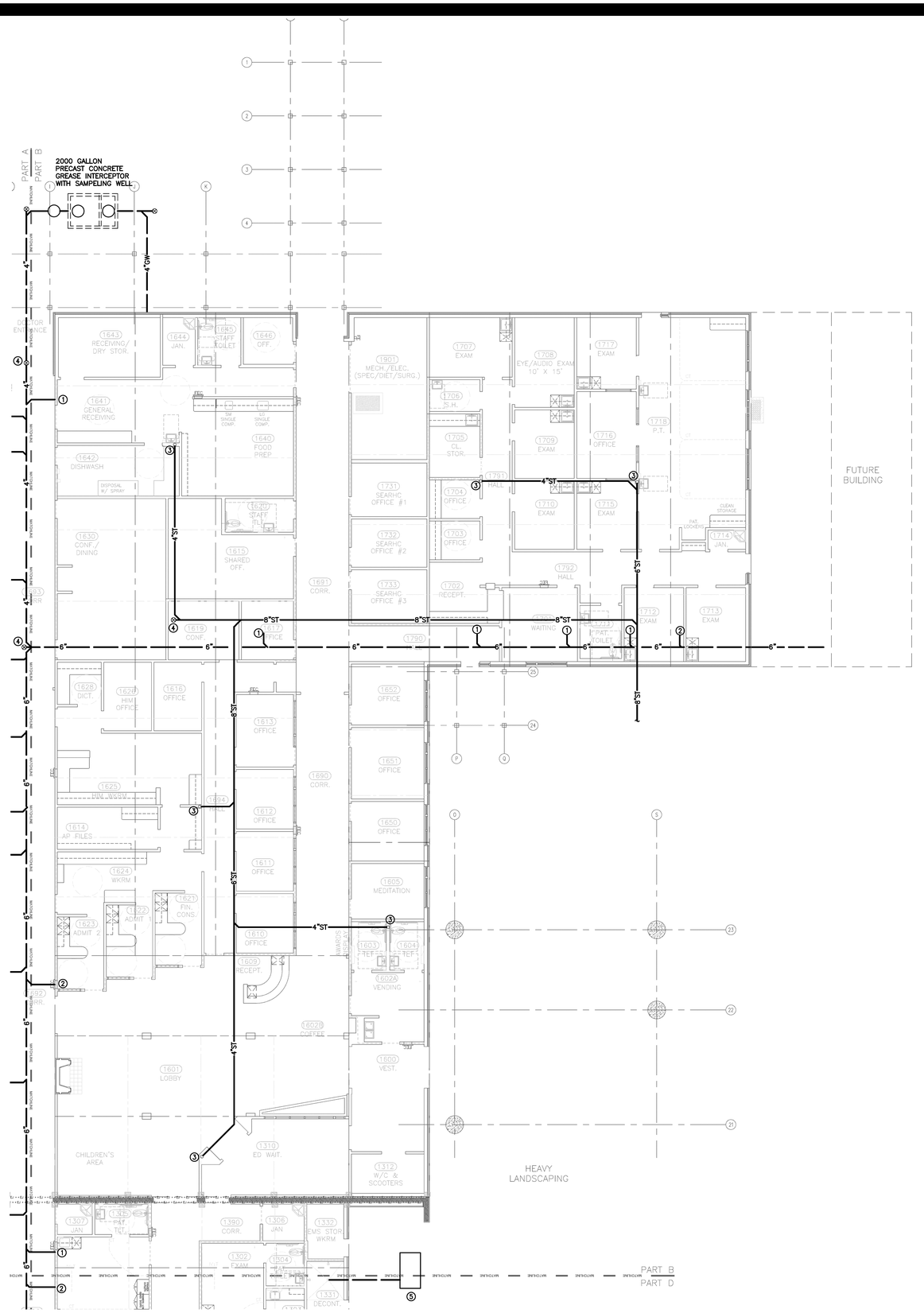
Fax: 615.377.0983
Enfinity Project # 10050



PLUMBING UNDERGROUND PIPING - PART B

8' 0 8'

PLAN KEY NOTES

1. 4"WASTE PIPE TAKE OFF TO COMPONENT SECTION
2. 3"WASTE PIPE TAKE OFF TO COMPONENT SECTION
3. 4"RAINWATER LEADER, UP
4. PROVIDE GRADE CLEANOUT

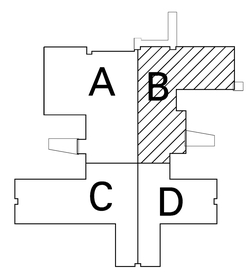
GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WORK WITH THAT OF OTHER TRADES.

WALL LEGEND-NOTED SHEETS

SYMBOL	DESCRIPTION	DOOR/DAMPER INFO.	PRIORITY
	NON-RATED PARTITION	-	(-)
	SMOKE-RESISTIVE PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(6TH)
	SMOKE-RESISTIVE PARTITION (SUITE)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(5TH)
	SMOKE RESISTIVE PARTITION (INCIDENTAL USE)	POSITIVE LATCH, CLOSER, NO DAMPERS	(4TH)
	1-HOUR SMOKE BARRIER (SMOKE COMP. SEPARATION)	20 MIN. CLOSER, S DAMPERS	(3RD)
	1-HOUR FIRE BARRIER (INCIDENTAL USE)	POSITIVE LATCH, 45-MIN. CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
	2-HOUR FIRE WALL (CMU CONSTR./STR. INDEPENDENT)	POSITIVE LATCH, 90 MIN. CLOSER, F/S DAMPERS	(1ST)

*SEE DIMENSIONED SHEETS FOR SOUND WALL LOCATIONS.



KEYPLAN

DEJA

A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

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AHFD AMERICAN HEALTH FACILITIES DEVELOPMENT

STATE OF ALASKA
49TH
THOMAS PLANTER DANIEL
No. ME12715
REGISTERED PROFESSIONAL ENGINEER
3/21/12

PROJECT NUMBER
10528.00
DATE
March 21, 2012

P1.0B

PLUMBING
UNDERGROUND
PIPING - PART B

Fire Marshal Review Set

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Brentwood, Tennessee 37027
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Fax: 615.377.0983
Enfinity Project # 10050

DEJA
David E. Johnson Architect
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Nashville, TN 37204
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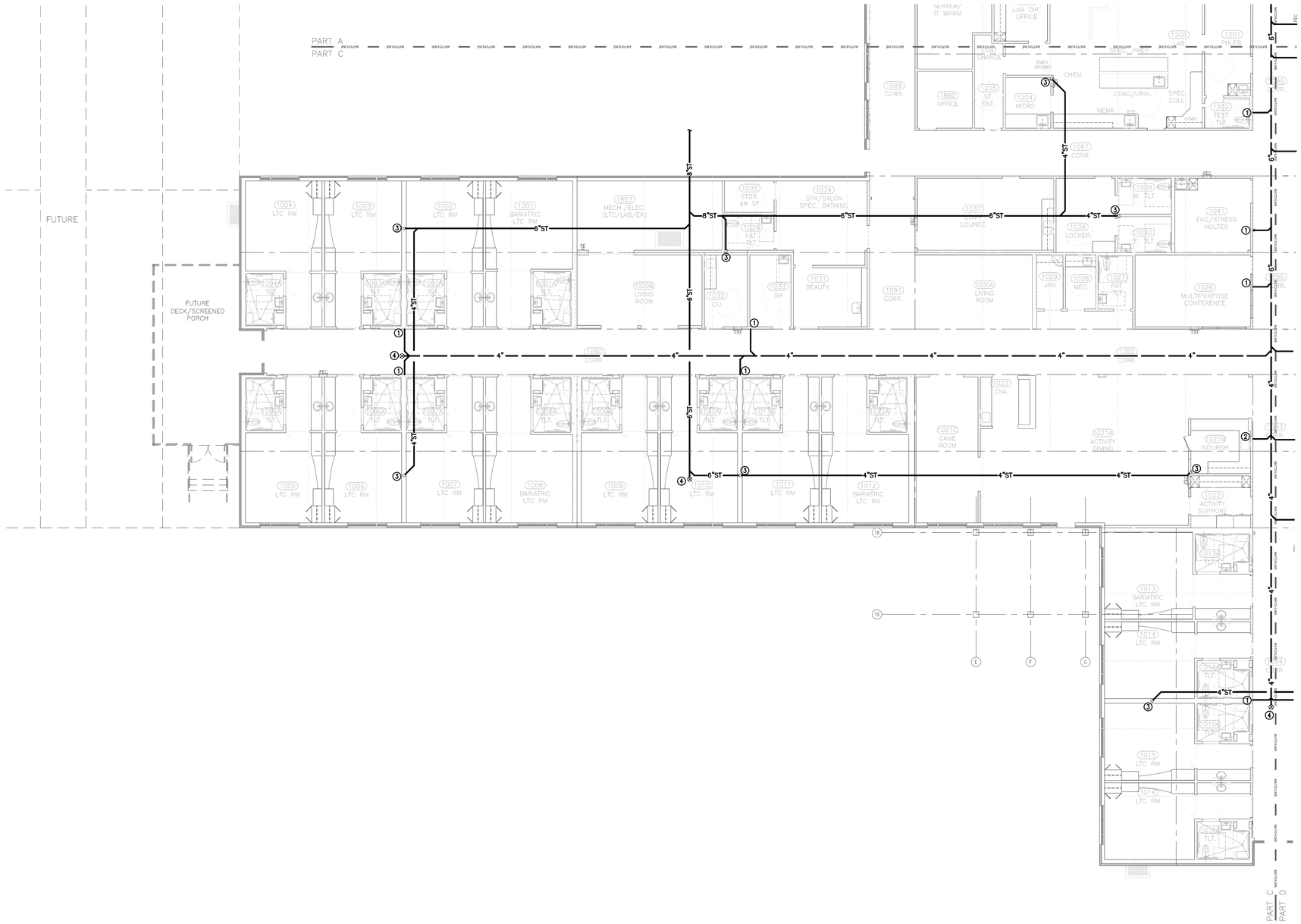

PLAN KEY NOTES

1. 4"WASTE PIPE TAKE OFF TO COMPONENT SECTION
2. 3"WASTE PIPE TAKE OFF TO COMPONENT SECTION
3. 4"RAINWATER LEADER, UP
4. PROVIDE GRADE CLEANOUT

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WORK WITH THAT OF OTHER TRADES.

WALL LEGEND-NOTED SHEETS

SYMBOL	DESCRIPTION	DOOR/DAMPER INFO.	PRIORITY
	NON-RATED PARTITION	-	(-)
	SMOKE-RESISTIVE PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(6TH)
	SMOKE-RESISTIVE PARTITION (SUITE)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(5TH)
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	1-HOUR SMOKE BARRIER (SMOKE COMP. SEPARATION)	20 MIN, CLOSER, S DAMPERS	(3RD)
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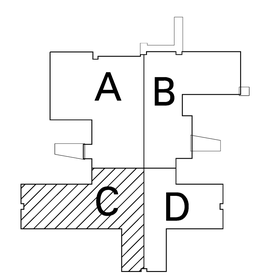
	2-HOUR FIRE WALL (CMU CONSTR./STR. INDEPENDENT)	POSITIVE LATCH, 90 MIN, CLOSER, F/S DAMPERS	(1ST)

*SEE DIMENSIONED SHEETS FOR SOUND WALL LOCATIONS.



KEYPLAN

PLUMBING UNDERGROUND PIPING - PART C

8' 0 8'

A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

STATE OF ALASKA 49TH
THOMAS PORTER DANIEL
No. ME12715
REGISTERED PROFESSIONAL ENGINEER
3/21/12

PROJECT NUMBER
10528.00
DATE
March 21, 2012

P1.0C

PLUMBING UNDERGROUND PIPING - PART C

Fire Marshal Review Set

enfinity engineering
9019 Overlook Boulevard, Suite C-4
Brentwood, Tennessee 37027
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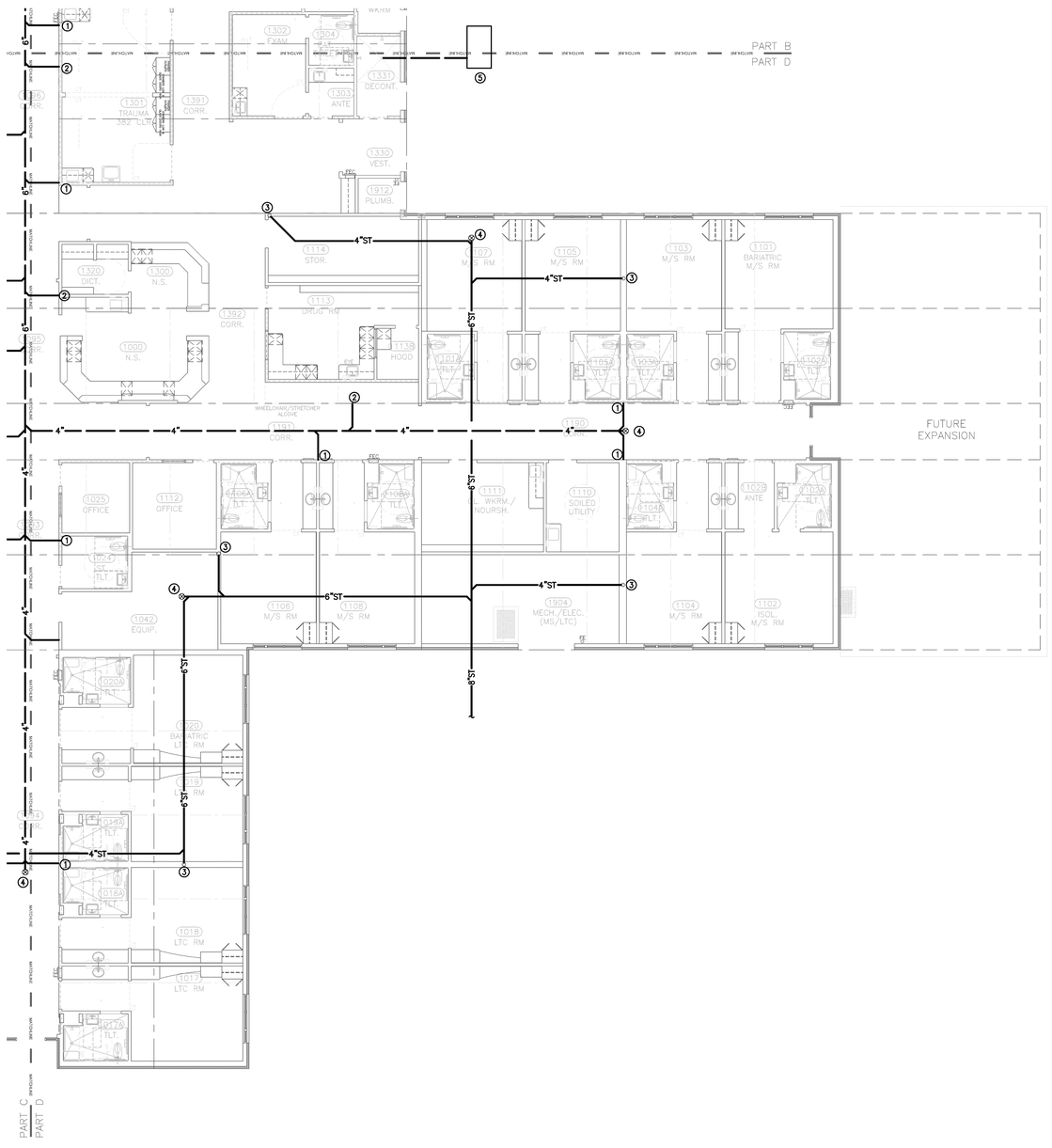
Fax: 615.377.0983
Enfinity Project # 10050



PLAN KEY NOTES

1. 4"WASTE PIPE TAKE OFF TO COMPONENT SECTION
2. 3"WASTE PIPE TAKE OFF TO COMPONENT SECTION
3. 4"RAINWATER LEADER, UP
4. PROVIDE GRADE CLEANOUT
5. PROVIDE 500 GALLON BELOW GRADE DECONTAM HOLDING TANK

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WORK WITH THAT OF OTHER TRADES.

WALL LEGEND-NOTED SHEETS

SYMBOL	DESCRIPTION	DOOR/DAMPER INFO.	PRIORITY
	NON-RATED PARTITION	-	(-)
	SMOKE-RESISTIVE PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(6TH)
	SMOKE-RESISTIVE PARTITION (SUITE)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(5TH)
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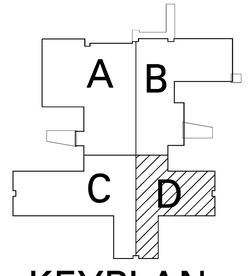
*SEE DIMENSIONED SHEETS FOR SOUND WALL LOCATIONS.



KEYPLAN

PLUMBING UNDERGROUND PIPING - PART D

8' 0 8'

DEJA

A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

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AHFD AMERICAN HEALTH FACILITIES DEVELOPMENT

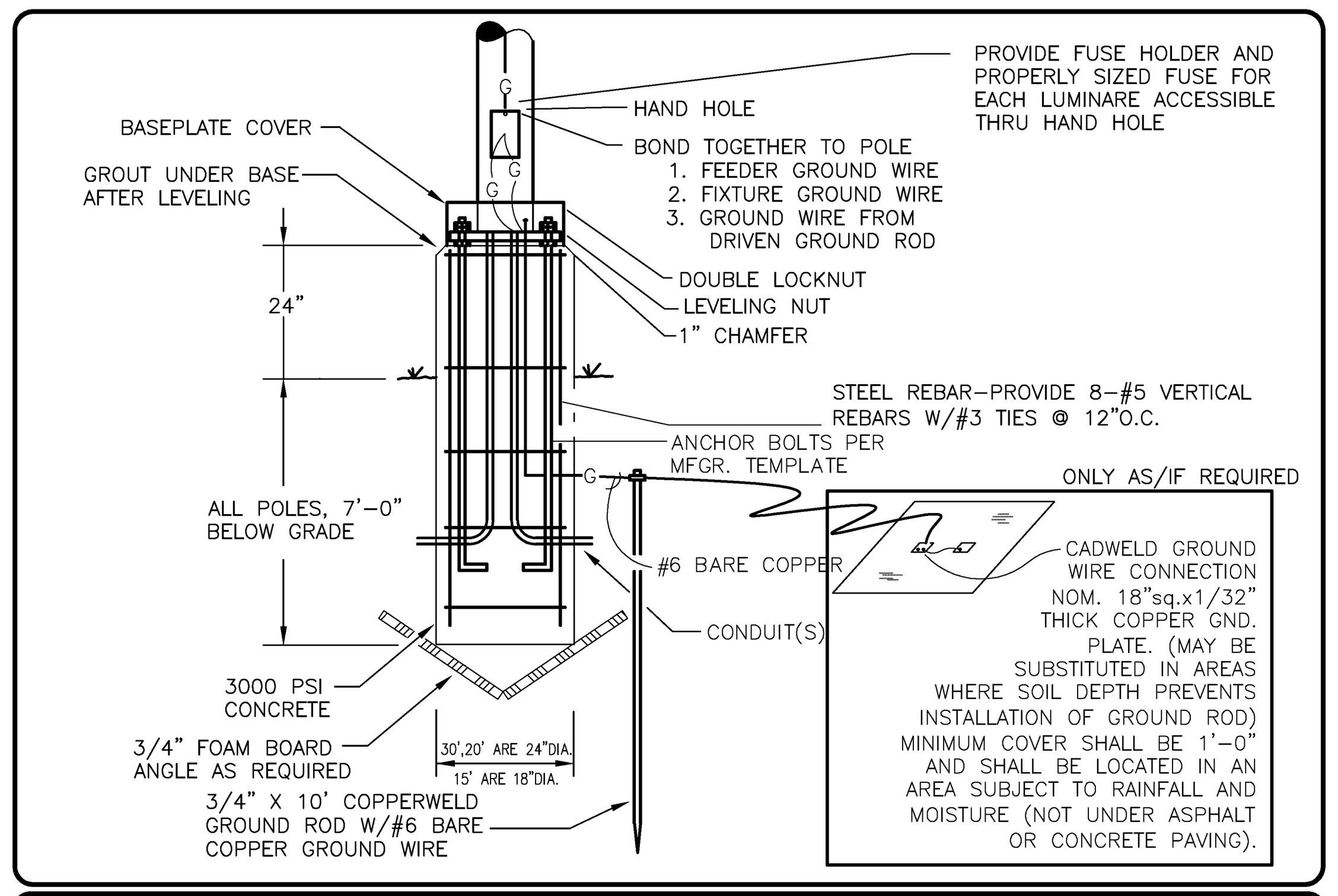
STATE OF ALASKA
49TH
THOMAS HUNTER DANIEL
No. ME12715
REGISTERED PROFESSIONAL ENGINEER
5/9/12

PROJECT NUMBER
10528.00
DATE
March 21, 2012

P1.0D

PLUMBING UNDERGROUND PIPING - PART D

Fire Marshal Review Set



POLE BASE DETAIL
SCALE: NONE

ED201F

SITE LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	#	LAMPS	MOUNTING	DESCRIPTION	NOTES
SA 5	LSI	GFR-5-1000MHR-F-MT	1	1000WMH	POLE	NOTE 2 - TYPE 5 - VERTICAL CUTOFF	
					MTD	30' SSS POLE	
						#SSS5A30SFM1	
SA3	LSI	GFR-3-400MHR-F-MT	1	400WMH	POLE	NOTE 2 - TYPE 3 - HORIZONTAL CUTOFF	
					MTD	HS' DESIGNATES HOUSE SIDE SHIELD WHERE NOTED	
					20' POLE	MULTI-HEAD WHERE INDICATED	
SB	LSI	GFF-1-175WMR-5-F-MT	1	175WMH	POLE	POST-TOP	
					MTD		
					10' POLE	2-OPTION DARK SKY	
SFH	LSI	DRS-HF-175MH-F-MT-BLK-SMT-GS	1	175MH	STANCHION	SIGN LT (HORIZ. SPOT)	
					MTD	GLARE SHIELD	
						MTD 8" ABOVE GRADE	

⬡ PLAN KEY NOTES

1. UNDERGROUND TELEPHONE, CABLE TELEVISION (CATV) AND ELECTRICAL EXTENSION BY UTILITY, NOT IN THIS CONTRACT BUT CONSTRUCTED CONCURRENT WITH CONTRACT.
2. THESE CONDUITS FOR UTILITY EXTENSION ARE TO BE PROVIDED BY CONTRACTOR BIDDING THIS CONTRACT.
3. SPRINKLER WATER LINE POST INDICATOR VALVE(PIV). COORDINATE EXACT LOCATION ON SITE. PROVIDE 1" CONDUIT TO FIRE ALARM CONTROL PANEL #1(FACP#1).
4. SPRINKLER WATER LINE POST INDICATOR VALVE(PIV). COORDINATE EXACT LOCATION ON SITE. PROVIDE 1" CONDUIT TO FIRE ALARM CONTROL PANEL #2(FACP#2).

CONTRACTOR SHALL COORDINATE WITH FOUNDATION CONTRACTOR FOR SLEEVING OF GRADE BEAMS AT ALL CONDUIT EXITS.

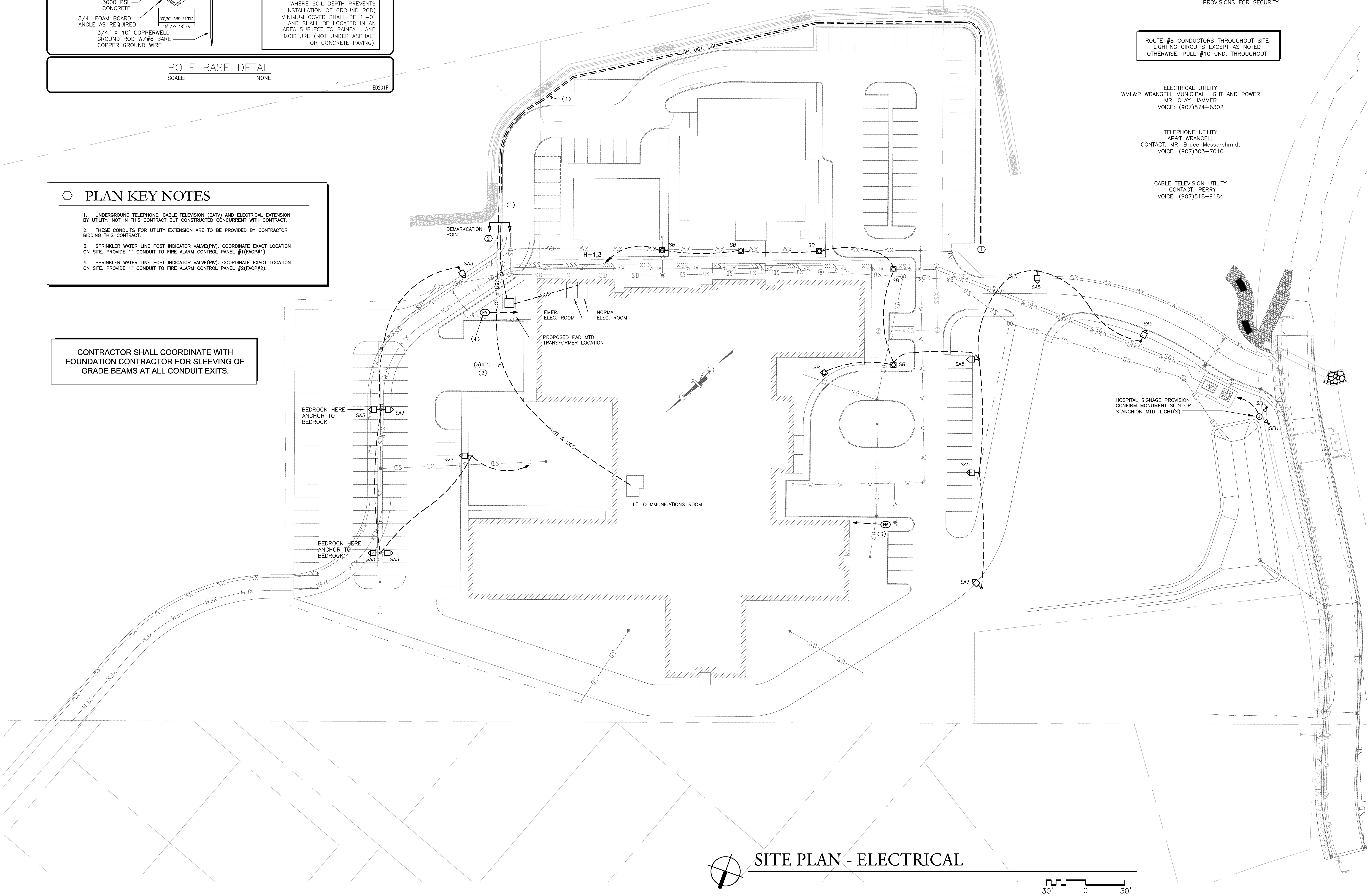
OHP — OVERHEAD PRIMARY
OHS — OVERHEAD SECONDARY
OHT — OVERHEAD TELEPHONE
UGP — UNDERGROUND PRIMARY
UGS — UNDERGROUND SECONDARY
UGT — UNDERGROUND TELEPHONE PROVISION
UGC — UNDERGROUND CATV PROVISION
— UNDERGROUND CONDUIT
S — PROVISIONS FOR SECURITY

ROUTE #8 CONDUCTORS THROUGHOUT SITE LIGHTING CIRCUITS EXCEPT AS NOTED OTHERWISE. PULL #10 GND. THROUGHOUT

ELECTRICAL UTILITY
WML&P WRANGELL MUNICIPAL LIGHT AND POWER
MR. CLAY HAMMER
VOICE: (907)874–6302

TELEPHONE UTILITY
AP&T WRANGELL
CONTACT: MR. Bruce Messershmidt
VOICE: (907)303–7010

CABLE TELEVISION UTILITY
CONTACT: PERRY
VOICE: (907)518–9184



SITE PLAN - ELECTRICAL

30' 0 30'

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A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFD | AMERICAN HEALTH FACILITIES DEVELOPMENT

STATE OF ALASKA — RUSSELL L. CROUCH — No. EE11916 — PROFESSIONAL ENGINEER

PROJECT NUMBER
10528.00
DATE
March 21, 2012

E1.0
SITE PLAN ELECTRICAL

Early Release Package

TRANSFORMER SIZING LEGEND						
PRIMARY			XFMR	SECONDARY		
BREAKER	WIRE SIZE	GND*	KVA	BREAKER	WIRE SIZE	GND
15/3	3#12	#8	9	30/3	4#10	#8
25/3	3#10	#8	15	50/3	4#6	#8
45/3	3#8	#8	30	100/3	4#3	#8
70/3	3#6	#4	45	175/3	4#2/0	#4
110/3	3#2	#2	75	250/3	4#250MCM	#2
175/3	3#3/0	#0	112.5	400/3	4#500MCM	#0
225/3	3#4/0	#0	150	500/3	(2)4#250MCM	#0
350/3	3#500MCM	#2/0	225	800/3	(2)4#500MCM	#2/0
500/3	(2)3#250MCM	#2/0	300	100/3	(4)4#250MCM	#2/0
*-CARRY THROUGH TO SERVICE AT LEAST THE DERIVED SERVICE GROUND SIZE						

WRANGELL MEDICAL CENTER APPROX. 55,000SF

LOAD SUMMARY			
LOAD	CONNECTED KVA	DIVERS. FACTOR	DIVERS. KVA
SITE LIGHTING	12	1.25	15
LIGHTING @ 1.1W/SF	66	1.25	72
RECEPT./MISC. @ 2W/SQ.FT.	110	CODE	60
A/C COMPRESSORS	300	.8	240
A/C FANS	140	.8	112
RADIOLOGY EQUIP.	190	CODE	120
PUMPS/EQUIPMENT	22½	1.0	22½
MISC. EQUIPMENT (STERILIZERS/HUMIDIFIERS)	200	.7	140
KITCHEN EQUIPMENT	90	.65	60
ELECTRIC HEAT	780	.6	468
TOTAL	--	--	1017

SERVICE SIZED AT 1600 ALLOWING FOR 20% GROWTH
VOLTAGE IS 277/480V, 3 PHASE, 4 WIRE.

EMER. LOAD SUMMARY			
LOAD	CONNECTED KVA	DIVERS. FACTOR	DIVERS. KVA
LIGHTING	40	1.0	40
RECEPT./MISC. 1.2W/SF	66	CODE	40
KITCHEN	45	.65	30
* X-RAY (2 UNITS)	190	CODE	100
FANS	140	.8	112
PUMPS	0	.8	0
EQUIPMENT (STERIL)	30	1.0	30
ELECTRIC HEAT	360	.8	288
TOTAL		--	640

* LIMITED TO ONE AT A TIME ON EMERGENCY POWER GENERATOR SIZE 600KW/750KVA

SWITCH	BRANCH	SIZE	LOAD SERVED	LOAD	SEQUENCE
ATS 'ES'	LIFE SAFETY	100A 3POLE SOLID NEUTRAL	LIFE SAFETY ITEMS LIGHTING & COMM.	-	#1
ATS 'EC'	CRITICAL	225A 3POLE SOLID NEUTRAL	LIGHITING & RECEPT. REFRIG. EQUIPMENT	-	#1
ATS 'EQ'	EQUIPMENT	600A 3POLE SOLID NEUTRAL	MED PUMPS, FANS, KIT. EQUIP. AND RADIOLOGY	-	#2

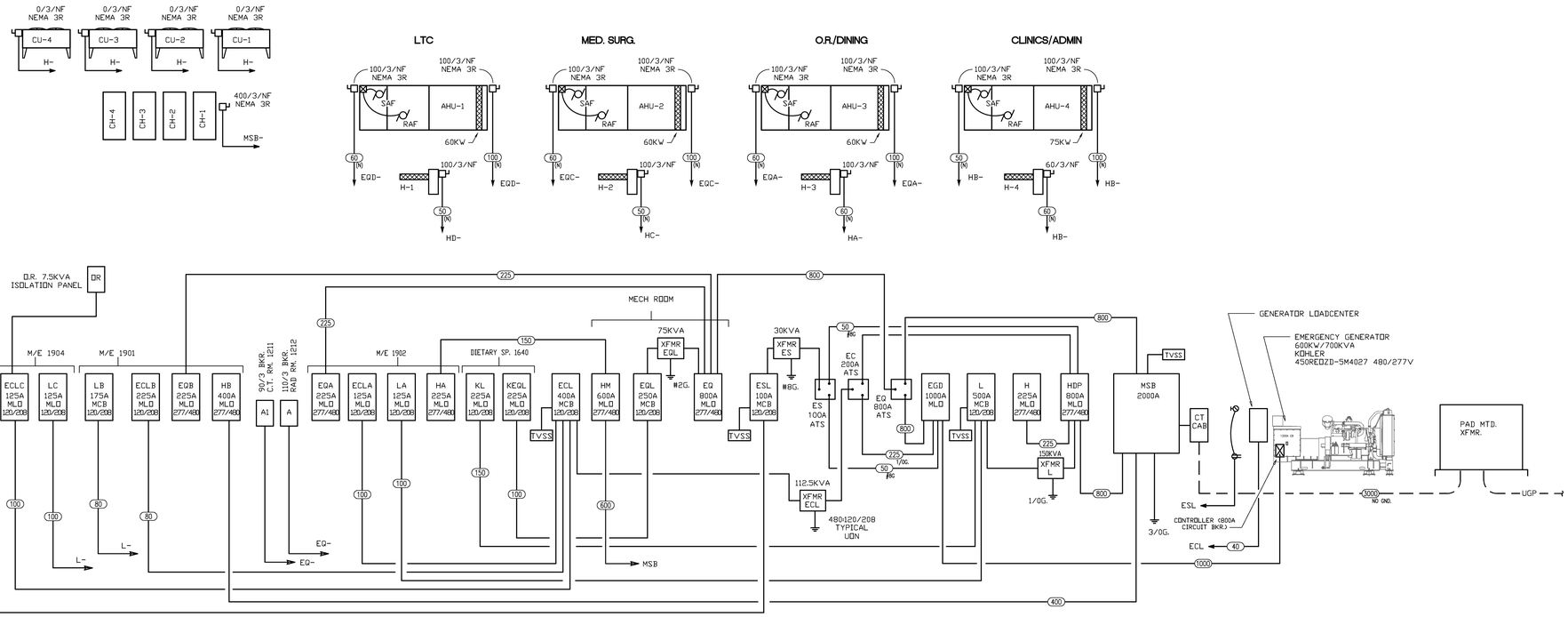
TRANSFER SWITCHES SHALL BEAR 'SERVICE EQUIPMENT' LABELS.

SEQUENCE #1: AUTOMATIC IMMEDIATE TRANSFER TO EMERGENCY SOURCE UPON FAILURE OF NORMAL SOURCE. 15 MINUTE DELAY FROM EMERGENCY SOURCE UPON RESTORATION OF NORMAL SOURCE.
SEQUENCE #2: 30 SECOND DELAY TRANSFER TO EMERGENCY UPON LOSS OF NORMAL POWER. 10 MINUTE DELAY FROM EMERGENCY SOURCE UPON RESTORATION OF NORMAL POWER.

FEEDER SCHEDULE							
	COPPER WIRE			SERVICE	ALUMINUM WIRE		
TYPE NO.	QUANTITIES & WIRE SIZE	CONDUIT	W/O NEUTRAL	GROUND	QUANTITIES & WIRE SIZE	CONDUIT	W/O NEUTRAL
15	4#12 & #12 GROUND	3/4"	3/4"	#8	-	-	-
20	4#12 & #12 GROUND	3/4"	3/4"	#8	-	-	-
30	4#10 & #10 GROUND	3/4"	3/4"	#8	-	-	-
50	4#8 & #10 GROUND	1"	1"	#8	-	-	-
60	4#6 & #8 GROUND	1-1/4"	1-1/4"	#8	-	-	-
85	4#4 & #8 GROUND	1-1/4"	1-1/4"	#8	-	-	-
100	4#3 & #8 GROUND	1-1/2"	1-1/4"	#8	4#1 & #6 GROUND	1-1/2"	1-1/2"
115	4#2 & #6 GROUND	1-1/2"	1-1/2"	#8	4#1/0 & #4 GROUND	2"	1-1/2"
130	4#1 & #6 GROUND	1-1/2"	1-1/2"	#6	4#2/0 & #4 GROUND	2"	2"
150	4#1/0 & #6 GROUND	2"	2"	#6	4#3/0 & #4 GROUND	2"	2"
175	4#2/0 & #6 GROUND	2"	2"	#4	4#4/0 & #4 GROUND	2-1/2"	2"
200	4#3/0 & #6 GROUND	2"	2"	#4	4#250MCM & #4 GROUND	3"	2-1/2"
225	4#4/0 & #4 GROUND	2-1/2"	2-1/2"	#2	4#300MCM & #2 GROUND	3"	2-1/2"
250	4#250MCM & #4 GROUND	3"	2-1/2"	#2	4#400MCM & #2 GROUND	3"	3"
300	4#350MCM & #3 GROUND	3"	3"	#2	4#500MCM & #2 GROUND	3-1/2"	3-1/2"
350	4#500MCM & #3 GROUND	4"	4"	#1/0	(2 SETS)4#4/0 & #1 GROUND	2-1/2"	2-1/2"
400	4#500MCM & #3 GROUND	4"	4"	#1/0	(2 SETS)4#250MCM & #1 GROUND	3"	2-1/2"
460	(2 SETS)4#4/0 & #2 GROUND	2-1/2"	2-1/2"	#1/0	(2 SETS)4#300MCM & #1/0 GROUND	3"	2-1/2"
500	(2 SETS)4#250MCM & #2 GROUND	3"	2-1/2"	#1/0	(2SETS)4#350MCM & #1/0 GROUND	3"	3"
600	(2 SETS)4#350MCM & #1 GROUND	3"	3"	#2/0	(2 SETS)4#500MCM & #2/0 GROUND	3-1/2"	3-1/2"
700	(2 SETS)4#500MCM & #1/0 GND	4"	4"	#2/0	(3 SETS)4#350MCM & #3/0 GROUND	3"	3"
800	(3 SETS)4#300MCM & #1/0 GND	3"	3"	#2/0	(3 SETS)4#400MCM & #3/0 GROUND	3"	3"
1000	(3 SETS)4#400MCM & #2/0 GND	4"	4"	#3/0	(4 SETS)4#350MCM & #4/0 GROUND	3"	3"
1200	(4 SETS)4#350MCM & #3/0 GND	3"	3"	#3/0	(4 SETS)4#500MCM & #250MCM GND	3-1/2"	3-1/2"
1600	(5 SETS)4#400MCM & #4/0 GND	4"	4"	#3/0	(6 SETS)4#400MCM & #350MCM GND	3"	3"
2000	(6 SETS)4#400MCM & #250MCM GND	4"	4"	#3/0	(7 SETS)4#500MCM & #400MCM GND	3-1/2"	3-1/2"
2500	(7 SETS)4#500MCM & #350MCM GND	4"	4"	#3/0	(9 SETS)4#500MCM & #350MCM Cu GND	3-1/2"	3-1/2"
3000	(8 SETS)4#500MCM & #400MCM GND	4"	4"	#3/0	(10 SETS)4#500MCM & #400MCM Cu GND	3-1/2"	3-1/2"
4000	(11 SETS)4#500MCM & #500MCM GND	4"	4"	#3/0	-	-	-
XA	3#3,#1/0 N,#1/0 GND	1-1/2"	-	-	-	-	-
XB	3#3/0, #3/0 GND	2"	-	-	-	-	-
XC	3#2,#1/0 N, #1/0 GND	1-1/2"	-	-	-	-	-
XD	3#1,#1/0 N, #1/0 GND	1-1/2"	-	-	-	-	-
XE	3#2/0, #2/0 GND	2"	-	-	-	-	-
XF	3#1/0,#1/0 N, #1/0 GND	2"	-	-	-	-	-
XG	2#2/0, #2/0 N, #2/0 GND	2"	-	-	-	-	-
XH	2#1/0, #1/0 N, #1/0 GND	2"	-	-	-	-	-

ALL FEEDERS ARE ASSUMED TO BE 4 CURRENT CARRYING CONDUCTORS (3 PHASE CONDUCTORS AND 1 NEUTRAL) UNLESS NOTED OTHERWISE.

FEEDER KEY IS AS FOLLOWS (PARENTHESIS DENOTES SUBSCRIPT):
= 3 PHASES AND NEUTRAL WITH GROUND
###(N) = 3 PHASES, NO NEUTRAL WITH GROUND
###(2) = 2 PHASES AND NEUTRAL WITH GROUND
###(2N) = 2 PHASES, NO NEUTRAL WITH GROUND



PROVIDE #10 GROUND BONDS BETWEEN NORMAL AND EMERGENCY PANELS IN EACH ELECTRICAL ROOM

PROPOSED POWER RISER DIAGRAM

NO SCALE

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A Replacement Facility for
Wrangell Medical Center
Wrangell, Alaska

AHFDI AMERICAN HEALTH FACILITIES DEVELOPMENT

STATE OF ALASKA — RUSSELL L. GROUCH — No. EE19998 — REGISTERED ELECTRICAL ENGINEER

PROJECT NUMBER
10528.00
DATE
March 21, 2012

E2.1

PROPOSED POWER RISER DIAGRAM

Early Release Package