

1 **PART III UNIT-SPECIFIC CONDITIONS FOR OPERATING UNIT 11**

2 **Integrated Disposal Facility**

3 **Appendix 4A - Section 3**

Critical Systems Design Drawings

4 H-2-830828, sheet 1

5 H-2-830832

6 H-2-830836

7 H-2-830837

8 H-2-830838

9 H-2-830839

10 H-2-830840

11 H-2-830845

12 H-2-830846

13 H-2-830848

14 H-2-830850

15 H-2-830854, sheet 1

16 H2-830854, sheet 2

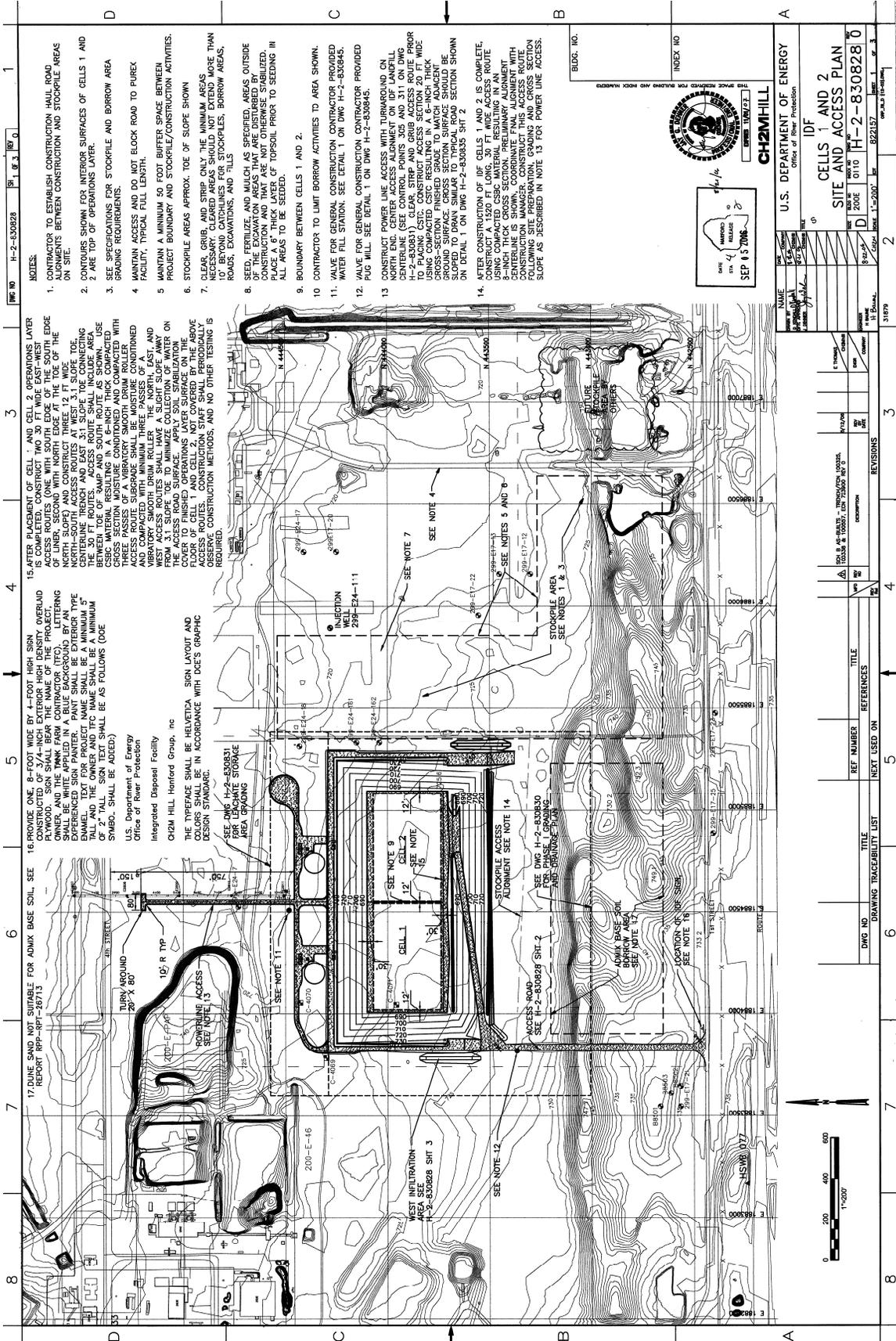
17 H-2-830869

18 Drawings redacted in electronic version. These documents may be viewed by appointment
19 (509-372-7920) at the Washington State Department of Ecology Richland Office Library,
20 3100 Port of Benton Boulevard, Richland, Washington.

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- NOTES:**
- CONTRACTOR TO ESTABLISH CONSTRUCTION HULL ROAD ALIGNMENTS BETWEEN CONSTRUCTION AND STOCKPILE AREAS ON SITE.
 - CONTOURS SHOW FOR INTERIOR SURFACES OF CELLS 1 AND 2 ARE TOP OF OPERATIONS LAYER.
 - SEE SPECIFICATIONS FOR STOCKPILE AND BORROW AREA GRADING REQUIREMENTS.
 - MAINTAIN ACCESS AND DO NOT BLOCK ROAD TO PUREX FACILITY, TYPICAL FULL LENGTH.
 - MAINTAIN A MINIMUM 50 FOOT BUFFER SPACE BETWEEN PROJECT BOUNDARY AND STOCKPILE/CONSTRUCTION ACTIVITIES.
 - STOCKPILE AREAS APPROX. TOE OF SLOPE SHOWN
 - CLEAR STRIP AND STRIP ONLY THE MINIMUM AREAS NECESSARY. CLEARED AREAS SHOULD NOT EXTEND MORE THAN 10' BEYOND CATCHLINES FOR STOCKPILES, BORROW AREAS, ROADS, EXCAVATIONS, AND TILLS
 - SEED, FERTILIZE, AND MULCH AS SPECIFIED, AREAS OUTSIDE OF THE EXCAVATION AREAS THAT ARE NOT TO BE STABILIZED. PLACE A 6" THICK LAYER OF TOPSOIL PRIOR TO SEEDING IN ALL AREAS TO BE SEED.
 - BOUNDARY BETWEEN CELLS 1 AND 2.
 - CONTRACTOR TO LIMIT BORROW ACTIVITIES TO AREA SHOWN.
 - VALVE FOR GENERAL CONSTRUCTION CONTRACTOR PROVIDED WATER FILL STATION. SEE DETAIL 1 ON DWG H-2-830845. PUG MILL. SEE DETAIL 1 ON DWG H-2-830845.
 - VALVE FOR GENERAL CONSTRUCTION CONTRACTOR PROVIDED PUG MILL. SEE DETAIL 1 ON DWG H-2-830845.
 - CONSTRUCT POWER LINE ACCESS WITH TURNAROUND ON NORTH END. CENTER ACCESS ALIGNMENT ON DE JARVIS. SEE DETAIL 1 ON DWG H-2-830831. CLEAR STRIP AND GRUB ACCESS ROUTE PRIOR TO PLACING CSTC. CONSTRUCT ACCESS SECTION 20 FT WIDE USING CONCRETE PAVED DRIVEWAY. MATCH ADJACENT DRIVEWAY SURFACE. CROSS SECTION SURFACE SHOULD BE SLOPED TO DRAIN SIMILAR TO DRIVEWAY ROAD SECTION SHOWN ON DETAIL 1 ON DWG H-2-830831 SHIT 2
 - AFTER CONSTRUCTION OF IDF CELLS 1 AND 2 ACCESS ROUTE USING COMPACTED CSBC MATERIAL. RESULTING IN AN 8-INCH THICK CROSS SECTION. PRELIMINARY ALIGNMENT TO BE DETERMINED BY THE CONTRACTOR. CONSTRUCTION MANAGER. CONSTRUCT THIS ACCESS ROUTE FOLLOWING SITE PREPARATION, GRADING AND GROSS SECTION SLOPE AS DESCRIBED IN NOTE 13 FOR POWER LINE ACCESS.

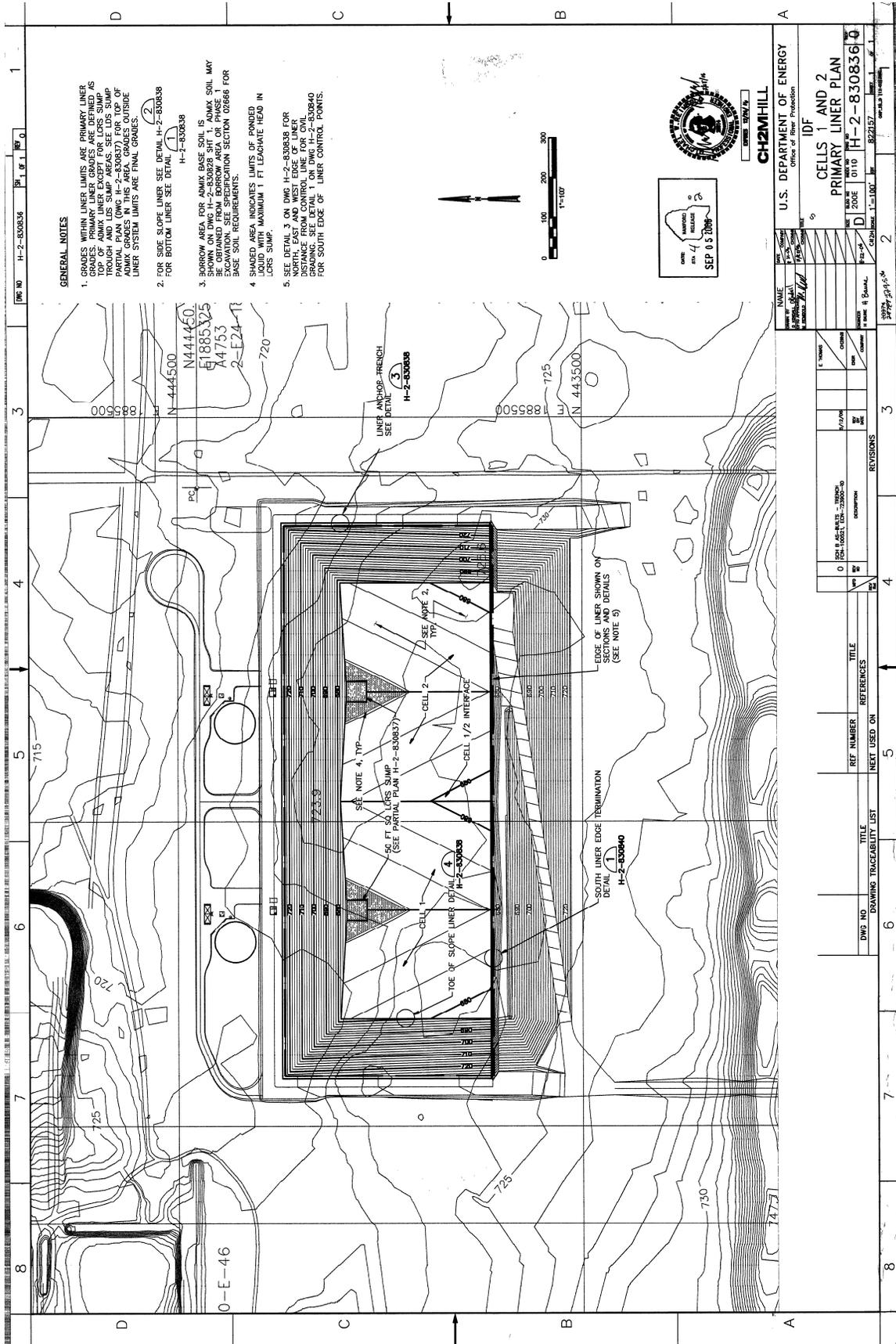
15. AFTER SLOPEMENT OF CELL 1 AND CELL 2 OPERATIONS LAYER IS COMPLETE, CONSTRUCT TWO 30 FT WIDE EAST-WEST ACCESS ROUTES (ONE WITH SOUTH EDGE AT THE TOE OF THE OF LINE, SECOND WITH NORTH EDGE AT THE TOE OF THE NORTH-SOUTH ACCESS ROUTES AT WEST 3:1 SLOPE TO CENTERLINE TRENCH AND EAST 3:1 SLOPE TOE CONNECTING BETWEEN TOE OF RAMP AND SOUTH ROUTE AS SHOWN. CSBC MATERIAL RESULTING IN A 6-INCH THICK COMPACTED THREE PASSES OF A VIBRATORY SMOOTH DRUM ROLLER. THESE ACCESS ROUTES SHALL BE MOISTURE CONDITIONED VIBRATORY SMOOTH DRUM ROLLER. THE NORTH, EAST, AND WEST ACCESS ROUTES SHALL HAVE A SLIGHT SLOPE AWAY FROM ACCESS ROUTES TO MINIMIZE SOIL STABILIZATION ON COVER TO FINISHED OPERATIONS LAYER SURFACE ON THE FLOOR OF CELL 1 AND CELL 2. NOT COVERED BECAUSE OBSERVE CONSTRUCTION METHODS, AND NO OTHER TESTING IS REQUIRED.

16. PROVIDE ONE 6-FOOT WIDE BY 12-FOOT HIGH SIGN OVERLAP FLYWOOD. SIGN SHALL BEAR THE NAME OF THE PROJECT, OWNER, AND THE TANK FARM CONTRACTOR (TFC). LETTERING SHALL BE IN BLACK ON A WHITE BACKGROUND. LETTERING EXPERIENCED SIGN PAINTER. PAINT SHALL BE EXTERIOR TYPE ENAMEL. TEXT FOR PROJECT NAME SHALL BE A MINIMUM 5" HIGH. THE OWNER AND TFC NAME SHALL BE A MINIMUM 3" HIGH. ALL LETTERING SHALL BE AS FOLLOWS (SEE SYMBOLS, SHALL BE ADDED):
U.S. Department of Energy
Office of River Protection
Integrated Disposal Facility
CH2M HILL Hanford Group, Inc
THE TYPEFACE SHALL BE HELVETICA. SIGN LAYOUT AND COLORS SHALL BE IN ACCORDANCE WITH DOE'S GRAPHIC DESIGN STANDARD.
SEE DWG H-2-830831 FOR LEACHATE STORAGE AREA GRADING

17. DUMP SAND AND SUITABLE FOR ADMIK BASE SOIL. SEE REPORT BRP-98-147-15
TURN AROUND 20' X 80'
105' R TYP
POWERLINE ACCESS
SEE NOTE 13
SEE NOTE 11
CELL 1
CELL 2
SEE NOTE 9
SEE NOTE 12
SEE NOTE 15
SEE NOTE 14
STOCKPILE ACCESS
ALIGNMENT SEE NOTE 14
SEE DWG H-2-830830 FOR PHASE I GRADING AND DRAINAGE PLAN
ADMIK BASE SOIL
SEE NOTE 12
SEE NOTE 14
SEE NOTE 12

18. CONTRACTOR TO ESTABLISH CONSTRUCTION HULL ROAD ALIGNMENTS BETWEEN CONSTRUCTION AND STOCKPILE AREAS ON SITE.
CONTOURS SHOW FOR INTERIOR SURFACES OF CELLS 1 AND 2 ARE TOP OF OPERATIONS LAYER.
SEE SPECIFICATIONS FOR STOCKPILE AND BORROW AREA GRADING REQUIREMENTS.
MAINTAIN ACCESS AND DO NOT BLOCK ROAD TO PUREX FACILITY, TYPICAL FULL LENGTH.
MAINTAIN A MINIMUM 50 FOOT BUFFER SPACE BETWEEN PROJECT BOUNDARY AND STOCKPILE/CONSTRUCTION ACTIVITIES.
STOCKPILE AREAS APPROX. TOE OF SLOPE SHOWN
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AFTER CONSTRUCTION OF IDF CELLS 1 AND 2 ACCESS ROUTE USING COMPACTED CSBC MATERIAL. RESULTING IN AN 8-INCH THICK CROSS SECTION. PRELIMINARY ALIGNMENT TO BE DETERMINED BY THE CONTRACTOR. CONSTRUCTION MANAGER. CONSTRUCT THIS ACCESS ROUTE FOLLOWING SITE PREPARATION, GRADING AND GROSS SECTION SLOPE AS DESCRIBED IN NOTE 13 FOR POWER LINE ACCESS.

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GENERAL NOTES

1. GRADES WITHIN LINER LIMITS ARE PRIMARY LINER GRADES. GRADES OUTSIDE OF LINER LIMITS ARE AS SHOWN ON DWG H-2-830828. ADAMK SOIL MAY BE OBTAINED FROM BORROW AREA OR PHASE 1 BASE SOIL REQUIREMENTS.
2. FOR SIDE SLOPE LINER SEE DETAIL H-2-830838 FOR BOTTOM LINER SEE DETAIL H-2-830838
3. BORROW AREA FOR ADAMK BASE SOIL IS SHOWN ON DWG H-2-830828. ADAMK SOIL MAY BE OBTAINED FROM BORROW AREA OR PHASE 1 BASE SOIL REQUIREMENTS.
4. SHARDED AREA INDICATES LIMITS OF POWDED LCRS WITH MAXIMUM 1 FT LEACHATE HEAD IN LCRS SUMP.
5. SEE DETAIL 3 ON DWG H-2-830838 FOR NORTH, EAST AND WEST EDGE OF LINER. SEE DETAIL 4 ON DWG H-2-830840 FOR SOUTH EDGE OF LINER CONTROL POINTS.

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U.S. DEPARTMENT OF ENERGY
IDF

CELLS 1 AND 2
PRIMARY LINER PLAN

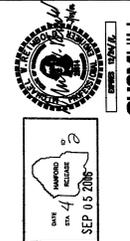
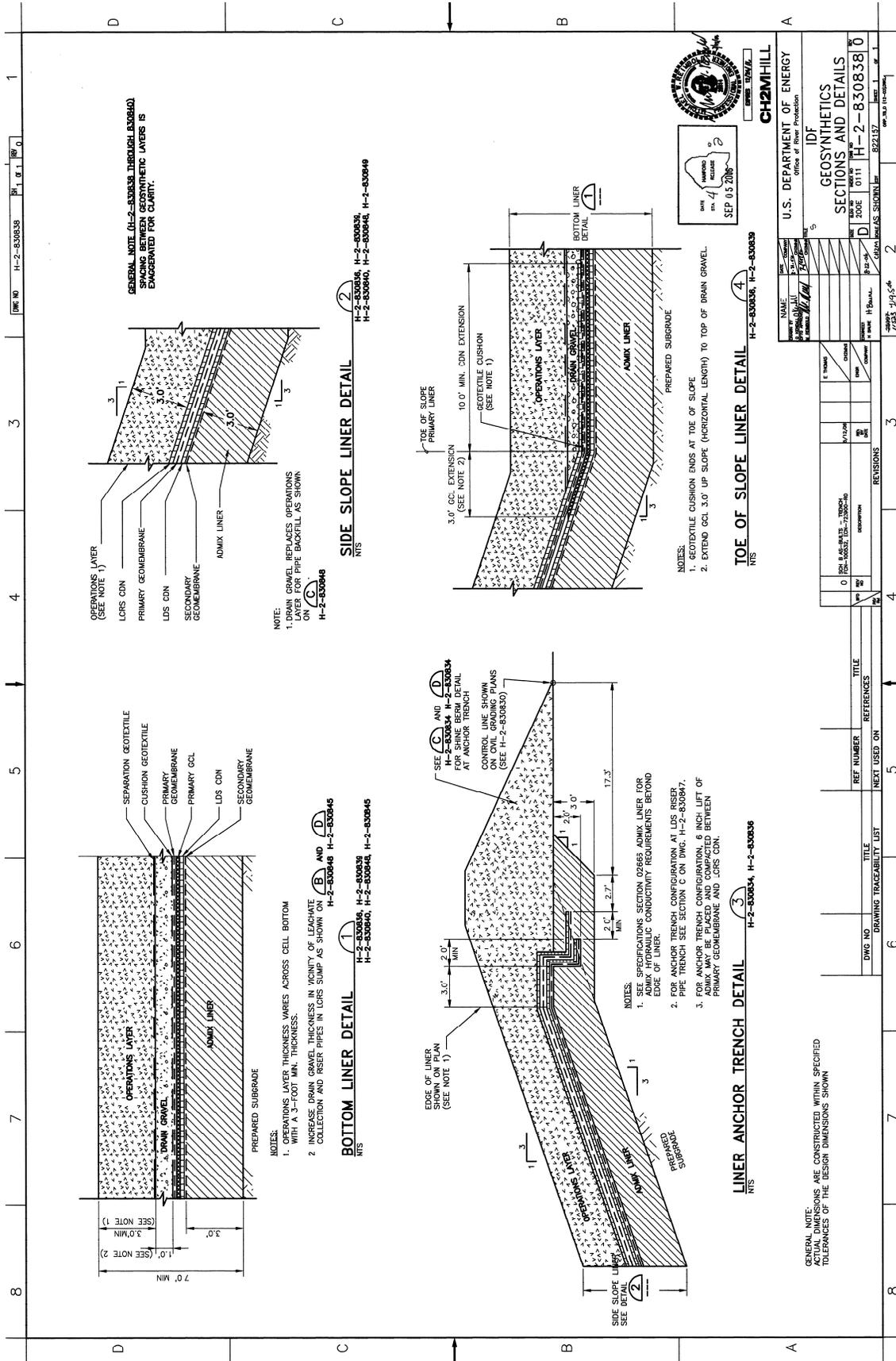
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CHECKED BY: H-2-830836

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NO.	DATE	DESCRIPTION
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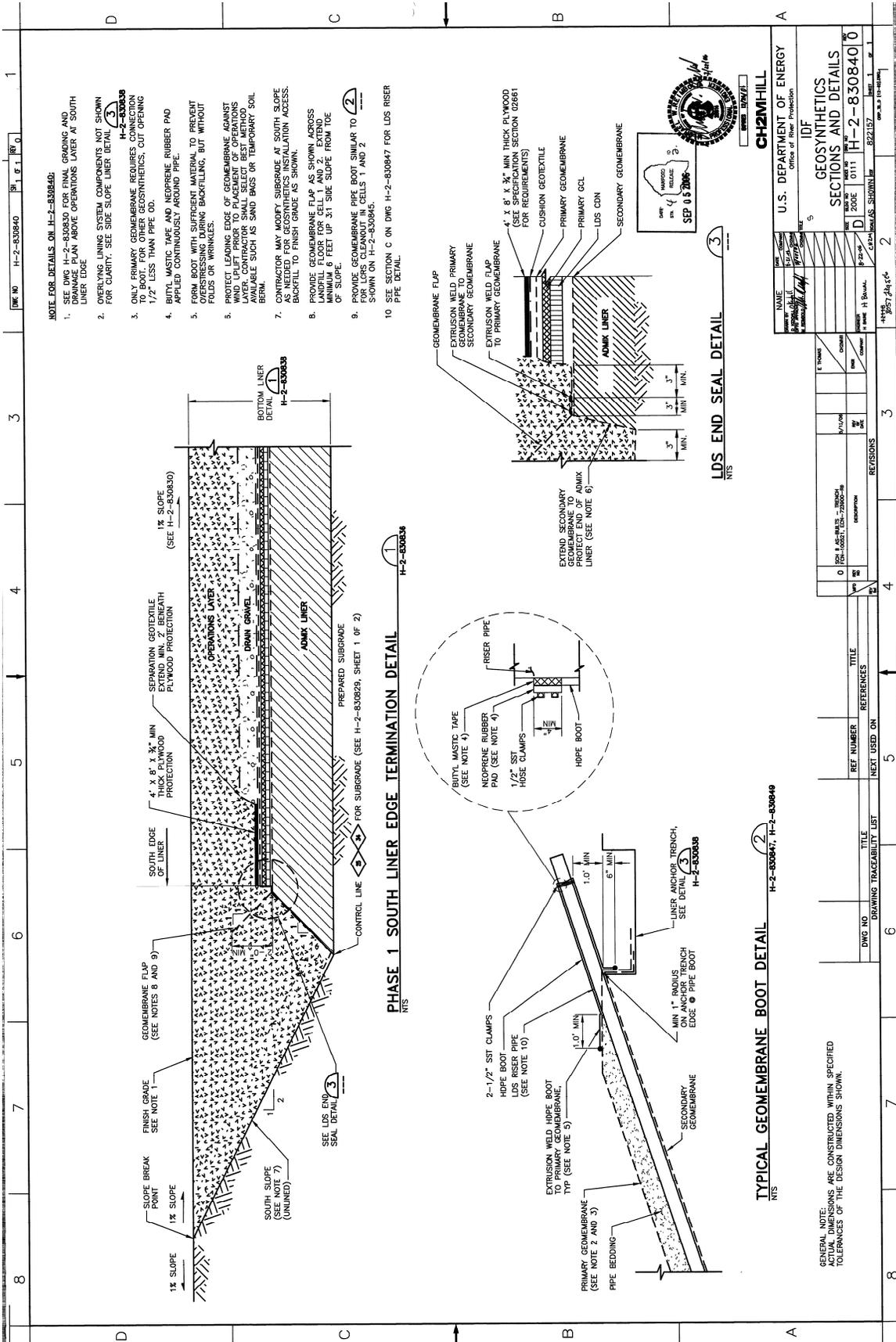


U.S. DEPARTMENT OF ENERGY
Office of Remedial Project
ID#
GEOSYNTHETICS
SECTIONS AND DETAILS
DWG NO. H-2-830838
REV. 0111
DATE 05/2006

NO.	DATE	DESCRIPTION
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1	05/2006	REVISIONS
2	05/2006	REVISIONS
3	05/2006	REVISIONS
4	05/2006	REVISIONS
5	05/2006	REVISIONS
6	05/2006	REVISIONS
7	05/2006	REVISIONS
8	05/2006	REVISIONS

DWG NO.	TITLE	REF. NUMBER	TITLE	REFERENCES
H-2-830838	LINER ANCHOR TRENCH DETAIL			
H-2-830836	TOE OF SLOPE LINER DETAIL			
H-2-830834	LINER ANCHOR TRENCH DETAIL			

DWG NO.	TITLE	REF. NUMBER	TITLE	REFERENCES
H-2-830838	LINER ANCHOR TRENCH DETAIL			
H-2-830836	TOE OF SLOPE LINER DETAIL			
H-2-830834	LINER ANCHOR TRENCH DETAIL			



- NOTE FOR DETAILS ON H-2-830840:**
- SEE DWG H-2-830830 FOR FINAL GRADING AND DRAINAGE PLAN ABOVE OPERATIONS LAYER AT SOUTH LINER EDGE
 - OVERLYING LINING SYSTEM COMPONENTS NOT SHOWN FOR CLARITY. SEE SIDE SLOPE LINER DETAIL H-2-830838
 - ONLY PRIMARY GEOMEMBRANE REQUIRES CONNECTION TO BOOT. FOR OTHER GEOSYNTHETICS, CUT OPENING 1/2" LESS THAN PIPE OD.
 - BUTYL MASTIC TAPE AND NEOPRENE RUBBER PAD APPLIED CONTIGUOUSLY AROUND PIPE.
 - FORM BOOT WITH SUFFICIENT MATERIAL TO PREVENT SEPARATION OF GEOMEMBRANE BACKFILLING, BUT WITHOUT FOLDS OR WRINKLES.
 - PROTECT LEADING EDGE OF GEOMEMBRANE AGAINST WIND LIFT PRIOR TO PLACEMENT OF OPERATIONS LAYER. CONTRACTOR SHALL SELECT BEST METHOD AVAILABLE SUCH AS SAND BAGS OR TEMPORARY SOIL BERM.
 - CONTRACTOR MAY MODIFY SUBGRADE AT SOUTH SLOPE AS NEEDED FOR GEOSYNTHETIC'S INSTALLATION ACCESS.
 - PROVIDE GEOMEMBRANE FLAP AS SHOWN ACROSS LANDFILL FLOOR FOR CELL 1 AND 2. EXTEND MINIMUM 6 FEET UP 3:1 SIDE SLOPE FROM TOE OF SLOPE.
 - PROVIDE GEOMEMBRANE PIPE BOOT SIMILAR TO 2) SHOWN ON H-2-830845.
 - SEE SECTION C ON DWG H-2-830847 FOR LDS RISER PIPE DETAIL.

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GEOSYNTHETICS
SECTIONS AND DETAILS

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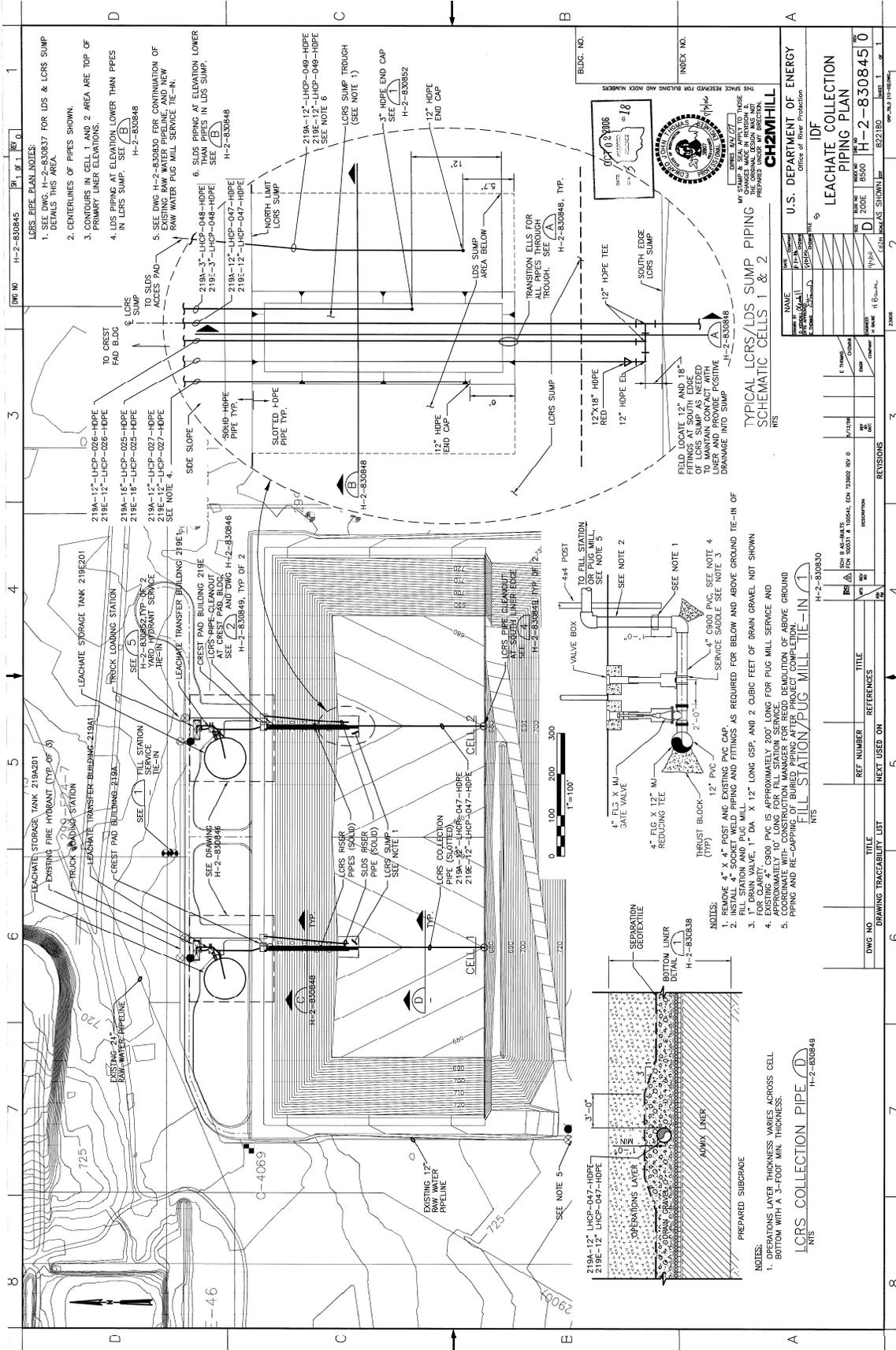
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TITLE: TYPICAL GEOMEMBRANE BOOT DETAIL
SCALE: AS SHOWN

REV	DATE	DESCRIPTION
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2	05/2006	REVISED TO ADD 1/2" SLOPE TO PROTECT LEADING EDGE
3	05/2006	REVISED TO ADD 1/2" SLOPE TO PROTECT LEADING EDGE
4	05/2006	REVISED TO ADD 1/2" SLOPE TO PROTECT LEADING EDGE
5	05/2006	REVISED TO ADD 1/2" SLOPE TO PROTECT LEADING EDGE
6	05/2006	REVISED TO ADD 1/2" SLOPE TO PROTECT LEADING EDGE
7	05/2006	REVISED TO ADD 1/2" SLOPE TO PROTECT LEADING EDGE
8	05/2006	REVISED TO ADD 1/2" SLOPE TO PROTECT LEADING EDGE

REF NUMBER	TITLE
1	OPERATIONS LAYER DETAIL
2	GEOMEMBRANE BOOT DETAIL
3	LDS END SEAL DETAIL
4	PHASE 1 SOUTH LINER EDGE TERMINATION DETAIL
5	PHASE 1 SOUTH LINER EDGE TERMINATION DETAIL
6	PHASE 1 SOUTH LINER EDGE TERMINATION DETAIL
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8	PHASE 1 SOUTH LINER EDGE TERMINATION DETAIL

DWG NO	TITLE	DATE
H-2-830840	TYPICAL GEOMEMBRANE BOOT DETAIL	05/2006
H-2-830841	PHASE 1 SOUTH LINER EDGE TERMINATION DETAIL	05/2006
H-2-830848	PHASE 1 SOUTH LINER EDGE TERMINATION DETAIL	05/2006

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LCRS PIPE PLAN NOTES:
 1. SEE DWG. H-2-830845 FOR LCRS & LCRS SUMP DETAILS THIS AREA.
 2. CENTERLINES OF PIPES SHOWN.
 3. CONTOURS IN CELL 1 AND 2 AREA ARE TOP OF PRIMARY LINER ELEVATIONS.
 4. LCRS PIPING AT ELEVATION LOWER THAN PIPES IN LCRS SUMP. SEE H-2-830848.
 5. SEE DWG. H-2-830830 FOR CONTINUATION OF EXISTING RAW WATER PIPING AND NEW RAW WATER PUMP MILL SERVICE TIE-IN.
 6. SLDS PIPING AT ELEVATION LOWER THAN PIPES IN LCRS SUMP. SEE H-2-830848.

NOTES:
 1. REMOVE 4" X 4" POST AND EXISTING PVC CAP.
 2. INSTALL SOCKET WELD PIPING AND FITTINGS AS REQUIRED FOR BELOW AND ABOVE GROUND TIE-IN OF 1" DRAIN VALVE. 1" DIA X 12" LONG GSP AND 2 CUBIC FEET OF DRAIN GRAVEL NOT SHOWN FOR CLARITY. 2000 PVC IS APPROXIMATELY 700' LONG FOR PUMP MILL SERVICE.
 3. APPROXIMATELY 10' LONG FOR PUMP MILL SERVICE.
 4. APPROXIMATELY 10' LONG FOR PUMP MILL SERVICE.
 5. COORDINATE WITH CONSTRUCTION MANAGER FOR RED DEMONSTRATION OF ABOVE GROUND PIPING AND RE-CAPPING FULL STATION/PUMP MILL TIE-IN.

NOTES:
 1. BOTTOM WITH A 3'-FOOT MIN. THICKNESS.
 LCRS COLLECTION PIPE

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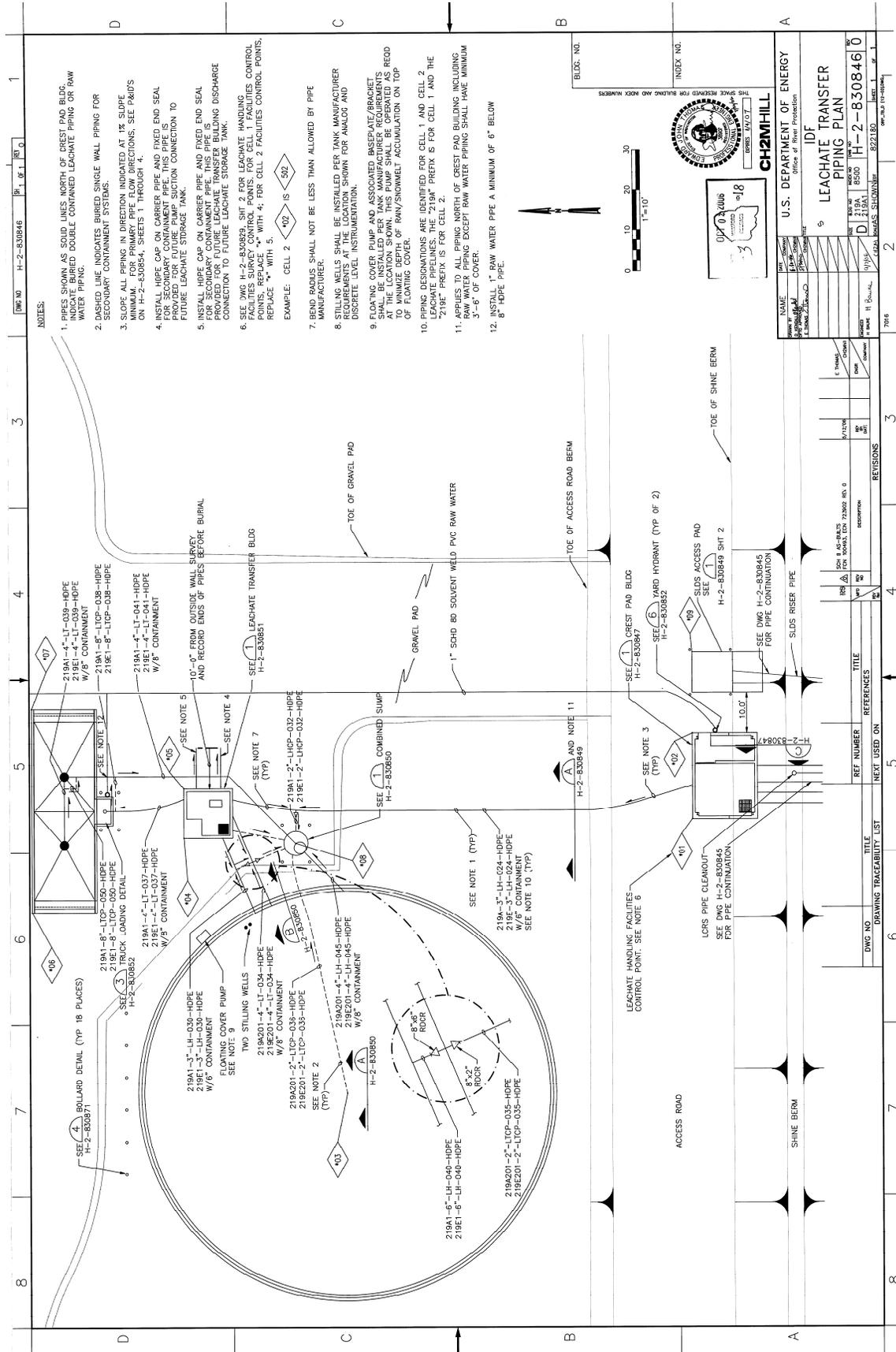
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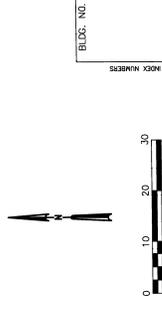
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- NOTES:**
- PIPES SHOWN AS SOLID LINES NORTH OF DREST PAD BLDG. INDICATE BURIED DOUBLE CONTAINED LEACHATE PIPING OR RAW WATER PIPING.
 - DASHED LINE INDICATES BURIED SINGLE WALL PIPING FOR SECONDARY CONTAINMENT.
 - SLOPE ALL PIPING IN DIRECTION INDICATED AT 1% SLOPE MINIMUM. FOR PRIMARY PIPE FLOW DIRECTIONS, SEE P&ID'S ON H-2-83084, SHEETS 1 THROUGH 4.
 - INSTALL HOPE CAP ON CARRIER PIPE AND FIXED END SEAL FOR SECONDARY CONTAINMENT PIPE. THIS PIPE IS TO BE PROVIDED FOR FUTURE PUMP SUCTION CONNECTION TO FUTURE LEACHATE STORAGE TANK.
 - INSTALL HOPE CAP ON CARRIER PIPE AND FIXED END SEAL FOR SECONDARY CONTAINMENT PIPE. THIS PIPE IS TO BE PROVIDED FOR FUTURE PUMP SUCTION CONNECTION TO FUTURE LEACHATE STORAGE TANK.
 - SEE DWG H-2-83084, SHEET 9 FOR LEACHATE HANDLING FACILITIES SURVEY CONTROL POINTS. FOR CELL 1 FACILITIES CONTROL POINTS, REPLACE "A" WITH 4; FOR CELL 2 FACILITIES CONTROL POINTS, REPLACE "A" WITH 5.
EXAMPLE: CELL 2 \diamond 02 \diamond IS \diamond 02
 - BEND RADIUS SHALL NOT BE LESS THAN ALLOWED BY PIPE MANUFACTURER.
 - STILLING WELLS SHALL BE INSTALLED PER TANK MANUFACTURER REQUIREMENTS AT THE LOCATION SHOWN FOR ANALOG AND DISCRETE LEVEL INSTRUMENTATION.
 - FLOATING COVER PUMP AND ASSOCIATED BASEPATE/BRACKET SHALL BE INSTALLED PER TANK MANUFACTURER REQUIREMENTS AT THE LOCATION SHOWN. THIS PUMP SHALL BE OPERATED AS NECESSARY TO MINIMIZE DEPTH OF RAIN/SNOWMELT ACCUMULATION ON TOP OF FLOATING COVER.
 - PIPING DESIGNATIONS ARE IDENTIFIED FOR CELL 1 AND CELL 2 LEACHATE PIPELINES. THE "219A" PREFIX IS FOR CELL 1 AND THE "219E" PREFIX IS FOR CELL 2.
 - APPLY 30' ALONG PIPING EXCEPT RAW WATER PIPING SHALL HAVE MINIMUM 3'-6" OF COVER.
 - INSTALL 1" RAW WATER PIPE A MINIMUM OF 6" BELOW 8" HOPE PIPE.



CH2MHILL
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Office of Environmental Protection

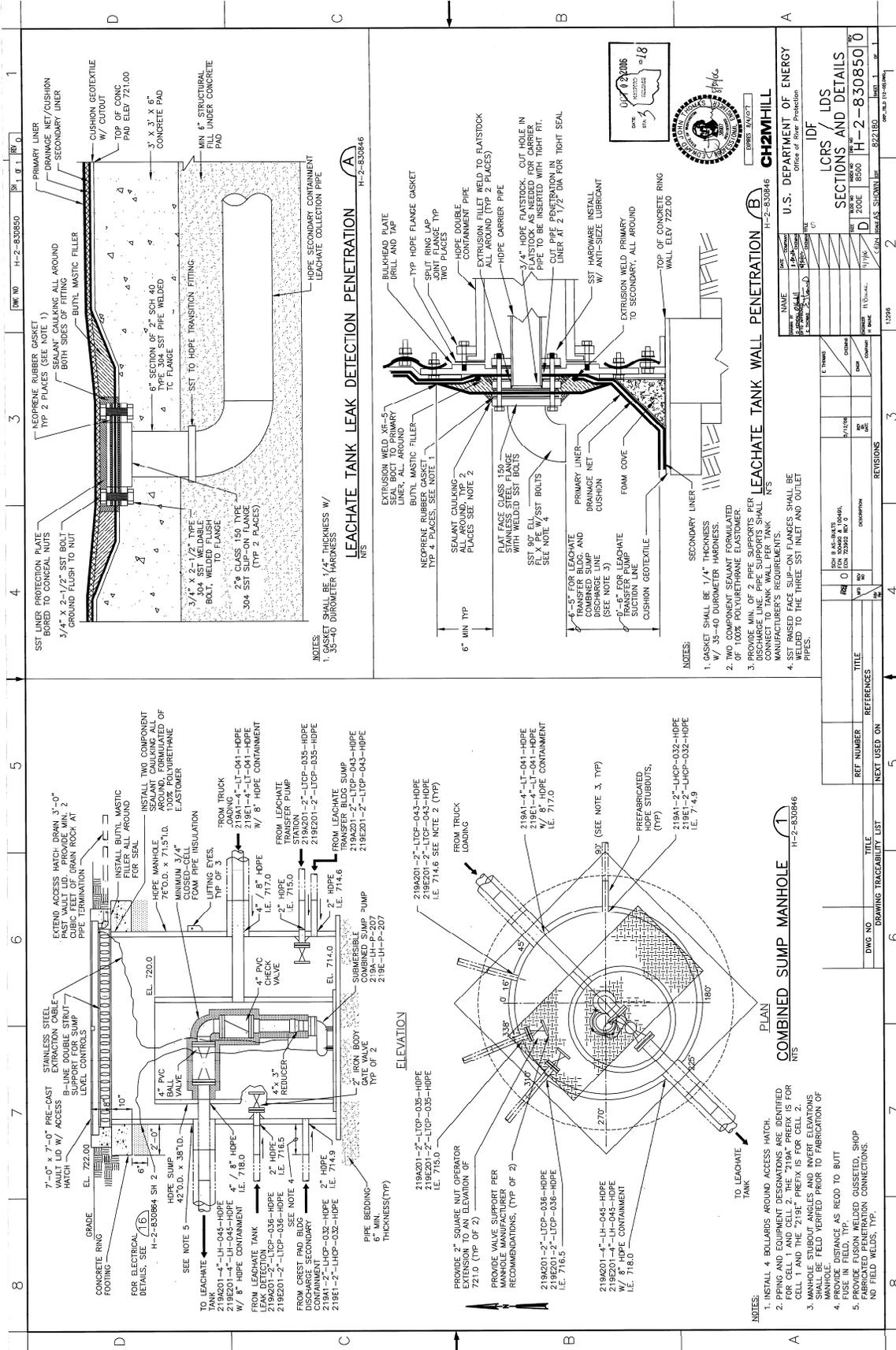
IDF
LEACHATE TRANSFER PIPING PLAN

DATE: 11/15/06
DRAWN BY: J. B. BROWN
CHECKED BY: J. B. BROWN
DESIGNED BY: J. B. BROWN
SCALE: AS SHOWN
PROJECT NO.: H-2-83084
SHEET NO.: 10

REVISIONS:

NO.	DATE	DESCRIPTION
1	11/15/06	ISSUED FOR CONSTRUCTION

1



Part III Operating Unit 11-4A.3.11

LEACHATE TANK WALL PENETRATION
H-2-530846

U.S. DEPARTMENT OF ENERGY
Office of River Protection

CH2M HILL
DREW KALICKI

DATE: 12/20/06
SCALE: AS SHOWN

PROJECT: LCRS / LDS
SECTION: AND DETAILS
IDF: H-2-830850
JOB NO: 1500
DATE: 10/01/04
DRAWN BY: J. S. WILSON
CHECKED BY: J. S. WILSON
APPROVED BY: J. S. WILSON

NO.	DATE	DESCRIPTION
1	12/20/06	ISSUED FOR CONSTRUCTION

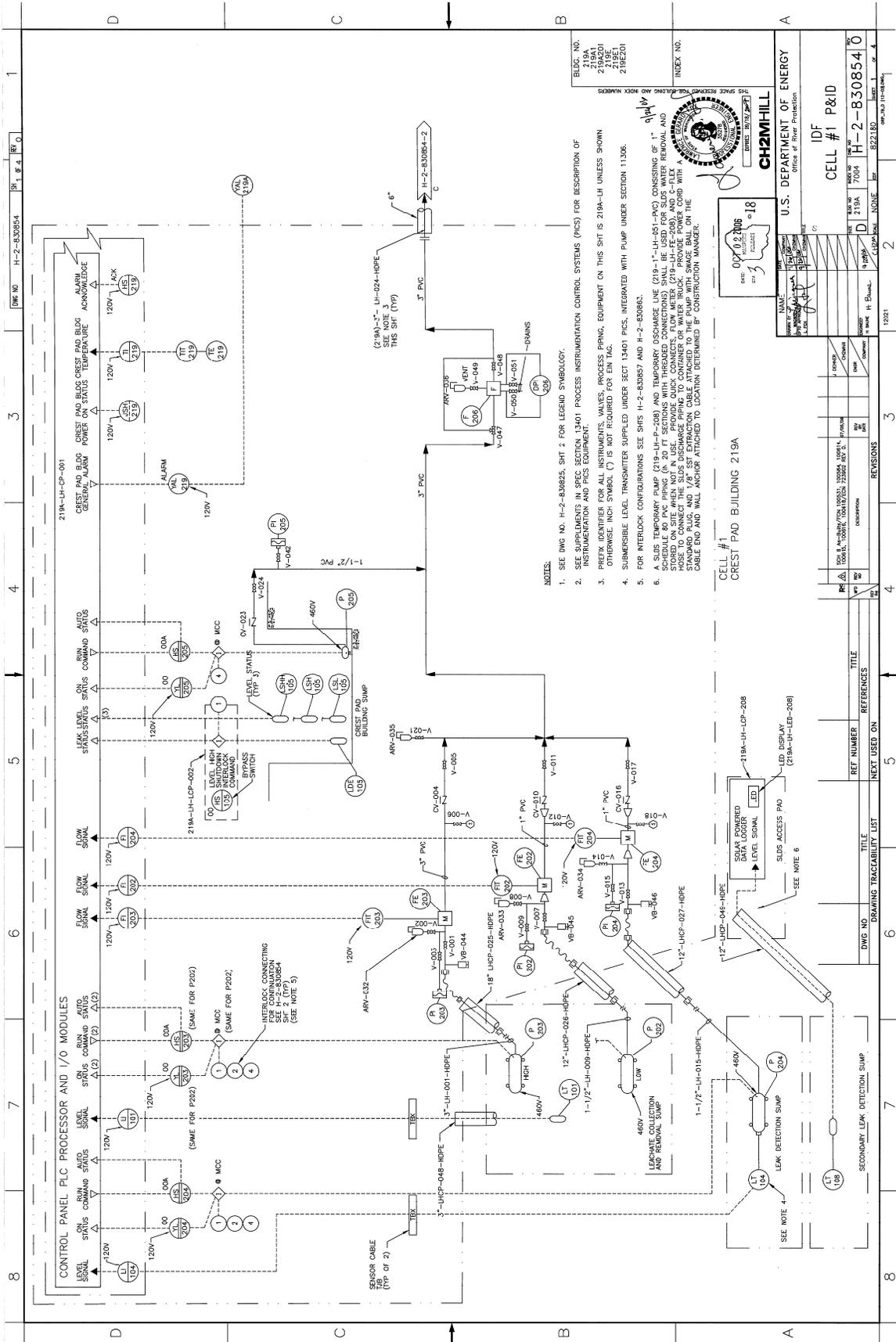
REV.	DATE	DESCRIPTION
0	12/20/06	ISSUED FOR CONSTRUCTION

DWG NO.	TITLE	REF NUMBER	TITLE	REFERENCES
H-2-530846	LEACHATE TANK WALL PENETRATION			

DWG NO.	TITLE	REF NUMBER	TITLE	REFERENCES
H-2-530846	COMBINED SUMP MANHOLE			

NOTES:

- INSTALL 4 BOLLARDS AROUND ACCESS HATCH
- PEING AND EQUIPMENT DESIGNATIONS ARE IDENTIFIED FOR CELL 1 AND CELL 2. THE "219A" PREFIX IS FOR CELL 1 AND THE "219B" PREFIX IS FOR CELL 2.
- MANHOLE STUBOUT ANGLES AND INVERT ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF MANHOLE.
- PROVIDE DISTANCE AS RECD TO BUTT FUSE IN FIELD. ALL WELDED GUSSETED, SHOP FABRICATED PENETRATION CONNECTIONS. NO FIELD WELDS, TYP.



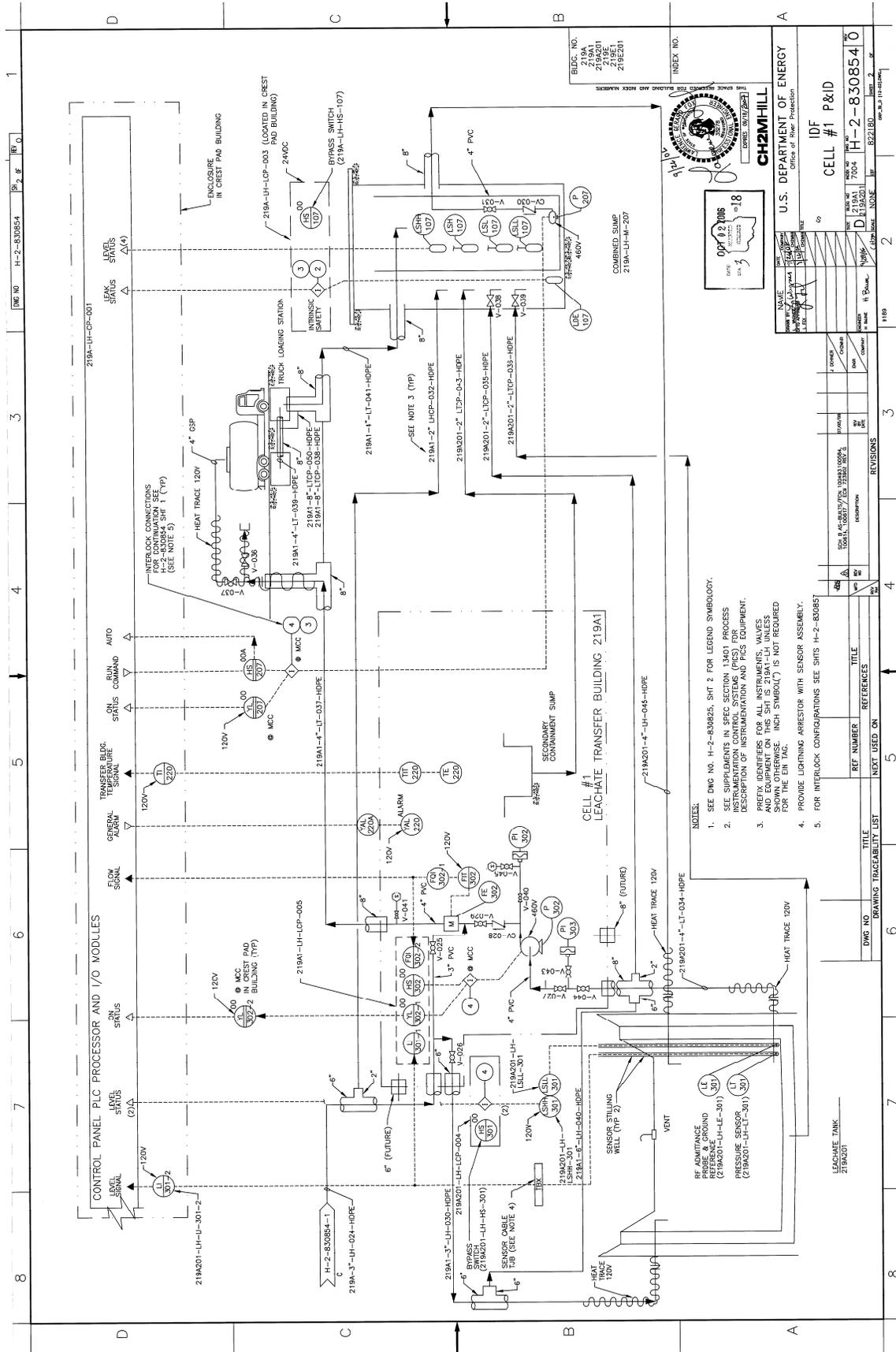
- NOTES:
1. SEE DWG NO. H-2-830824, SHEET 2 FOR LEGEND SYMBOLOLOGY.
 2. SEE CAPABILITIES IN SPEC. SECTION 13401 PROCESS INSTRUMENTATION CONTROL SYSTEMS (PICS) FOR DESCRIPTION OF INSTRUMENTATION AND PICS EQUIPMENT.
 3. PREFIX IDENTIFIER FOR ALL INSTRUMENTS, VALUES, PROCESS BRINGS, EQUIPMENT ON THIS SHEET IS 219A-LH UNLESS SHOWN OTHERWISE. INCH SYMBOL (") IS NOT REQUIRED FOR EN TAG.
 4. SUBMERSIBLE LEVEL TRANSMITTER SUPPLIED UNDER SECT 13401 PICS, INTEGRATED WITH PUMP UNDER SECTION 11306.
 5. FOR WERKLOCK CONFIGURATIONS SEE SHTS H-2-830857 AND H-2-830862.
 6. A SLURRY TEMPERATURE PUMP (219-LH-P-208) AND TEMPORARY DISCHARGE LINE (219-1-LH-051-PVC) CONSISTING OF 1" PVC WITH 1/2" O.D. FLEX HOSE TO BE STORED ON SITE WHEN NOT IN USE. PROVIDE QUICK CONNECTS, FLOW METER (219-LH-FE-209), AND C-FLEX HOSE TO CONNECT THE SLURRY DISCHARGE PIPING TO CONTAINER OR WATER TRUCK. PROVIDE POWER CORD WITH 1/2" O.D. FLEX HOSE TO CONNECT TO THE CABLE END AND WALL ANCHOR ATTACHED TO LOCATION DETERMINED BY CONSTRUCTION MANAGER.

CH2M HILL
U.S. DEPARTMENT OF ENERGY
Office of River Protection

CELL #1 P&ID
IDF
H-2-830854.0

REV	DATE	BY	CHKD	DESCRIPTION
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DWG NO.	TITLE	REF NUMBER	TITLE	REFERENCES
219A-LH-LCP-001	CONTROL PANEL PLC PROCESSOR AND I/O MODULES			
219A-LH-LCP-208	SLURRY TEMPERATURE PUMP			
219A-LH-ED-206	LED DISPLAY			
219A-LH-051-PVC	TEMPORARY DISCHARGE LINE			
219-LH-FE-209	FLOW METER			
219-LH-P-208	SLURRY TEMPERATURE PUMP			
219-LH-051-PVC	TEMPORARY DISCHARGE LINE			
219-LH-FE-209	FLOW METER			
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- NOTES:
1. SEE DWG NO. H-2-830854, SHEET 2 FOR LEGEND SYMBOLOLOGY.
 2. SEE SUPPLEMENTS IN SPEC SECTION 13401 PROCESS INSTRUMENTATION CONTROL SYSTEMS (PICS) FOR DESCRIPTION OF INSTRUMENTATION AND PICS EQUIPMENT.
 3. PREFIX IDENTIFIERS FOR ALL INSTRUMENTS, VALVES, SHOWA OTHERWISE. INCH SYMBOL(C) IS NOT REQUIRED FOR THE EIN TAG.
 4. PROVIDE LIGHTNING ARRESTOR WITH SENSOR ASSEMBLY.
 5. FOR INTERLOCK CONFIGURATIONS SEE SHIS H-2-830857.

CH2M HILL
U.S. DEPARTMENT OF ENERGY
Office of Environmental Remediation

CELL #1 P&ID
H-2-830854

DATE: 2/13/06
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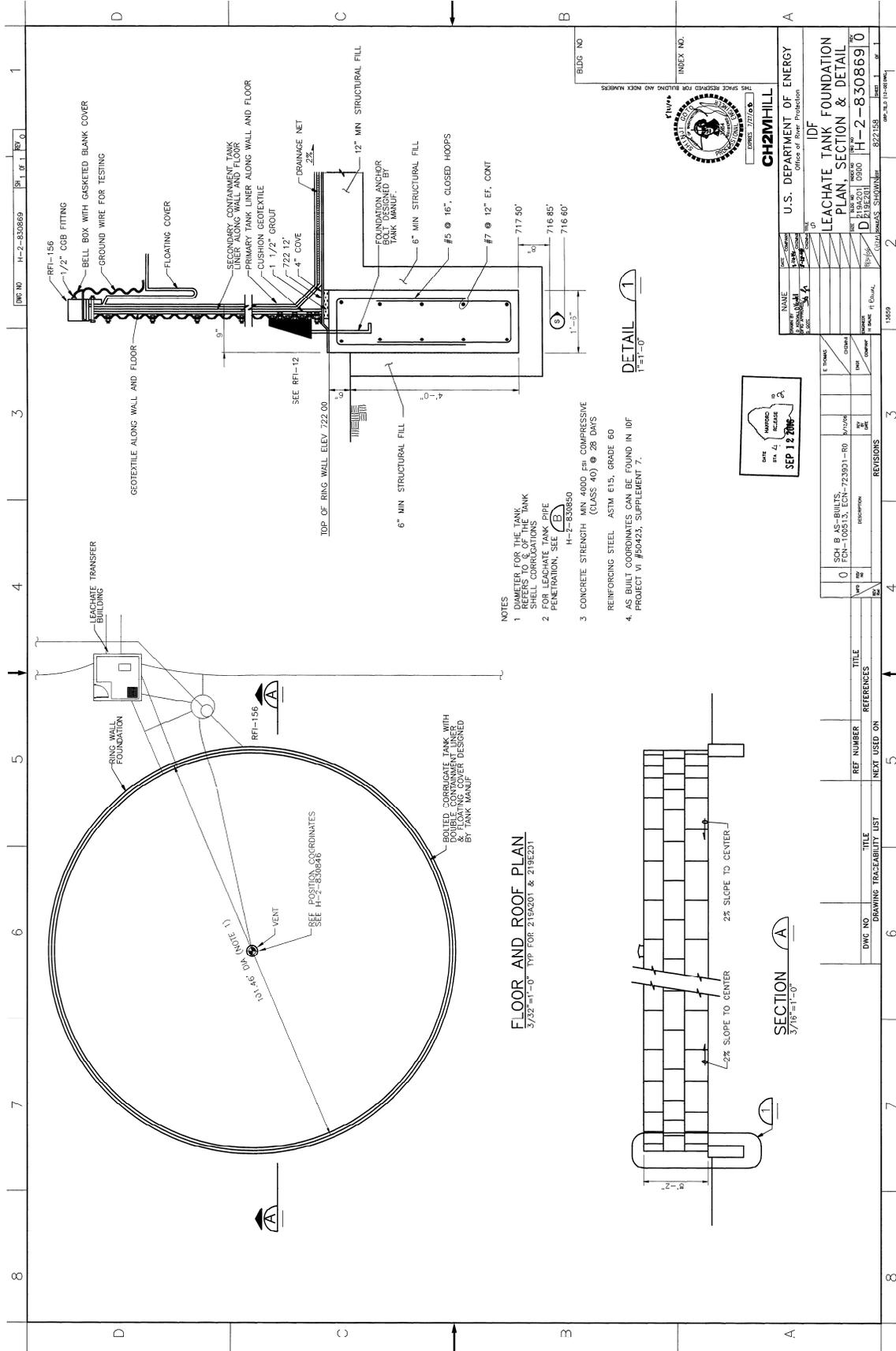
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DWG NO	TITLE	REF NUMBER	TITLE
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H-2-830854-2	CELL #1 P&ID		

DWG NO	TITLE	REF NUMBER	TITLE
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H-2-830854-2	CELL #1 P&ID		

DWG NO	TITLE	REF NUMBER	TITLE
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H-2-830854-2	CELL #1 P&ID		

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