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Frost	7/1/08	5042

JUN 23 2008

Duke Energy Corporation
526 South Church St.
Charlotte, NC 28202

June 18, 2008

SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE

Mailing Address:
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Charlotte, NC 28201-1006

North Carolina Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
Asheville Regional Office
2090 US Highway 70
Swannanoa, N.C. 28778

Attention: Mr. Larry Frost

Subject: Duke Energy - Marshall Steam Station
FGD Landfill
Solid Waste Facility Permit No: 18-09
Operations Plan Modification – Concrete Liner Addition

Dear Mr. Frost:

In response to your letter of February 29, 2008, attached is Chas. H. Sells, Inc.'s revised drawing: "Cell 1 – Stormwater Basin Plan & Details" showing revisions to the stormwater basin in the Marshall FGD landfill. The drawing was revised to show the "as-built" conditions for the concrete liner that Duke Energy had requested for installation within the FGD landfill.

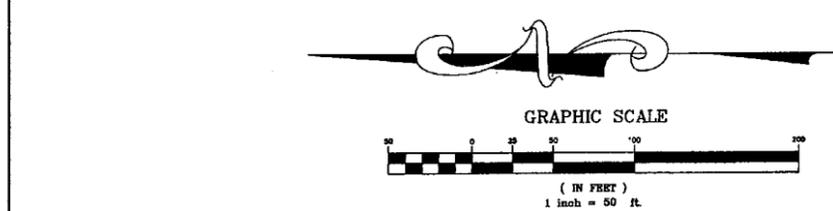
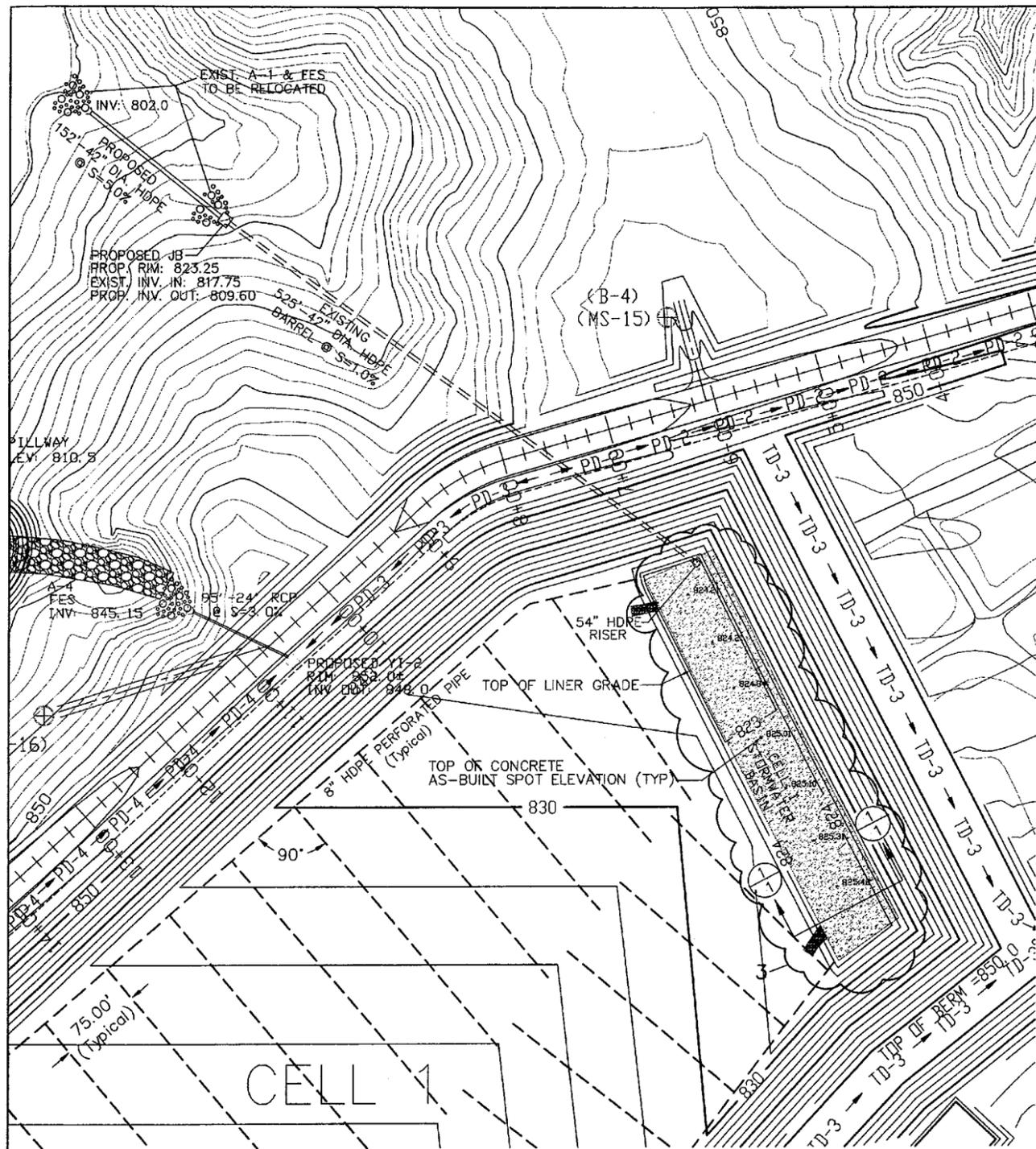
If there are any questions, please contact me at 980-373-7892.

Sincerely,

Christopher D. Hallman, P.E.
Waste and Remediation Management
Duke Energy Corporate EHS

Attachments

cc (w/att) Donna Burrell - Marshall
Bill McCabe



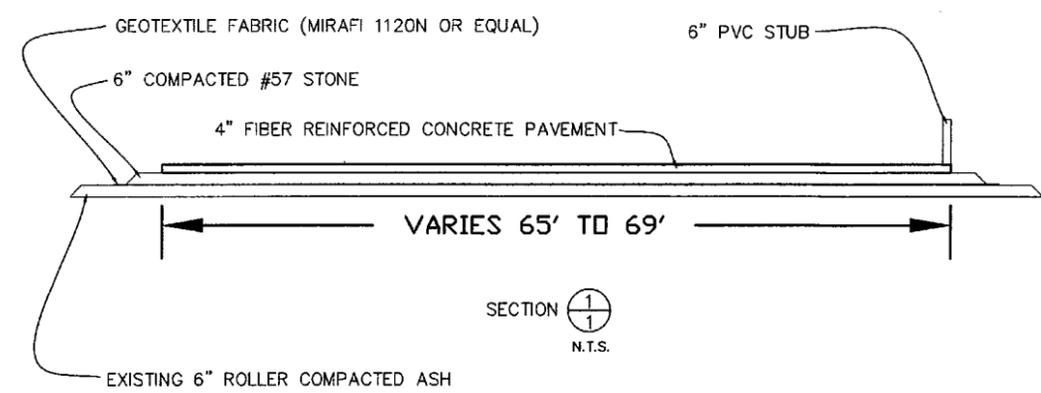
NOTE: SEE STANDARD SKIMMER DETAIL, DOCUMENT MM6451.00-0012.001

TECHNICAL SPECIFICATIONS

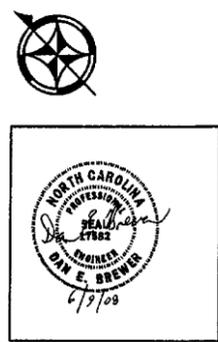
- 1) SUBGRADE FOR DAM TO BE PROOFROLLED PRIOR TO EARTH FILL PLACEMENT. ANY SOFT OR PUMPING AREAS ARE TO BE UNDERCUT AND REPLACED WITH COMPACTED EARTH FILL.
- 2) COMPACTED EARTH FILL TO HAVE DRY UNIT WEIGHT OF AT LEAST 90 PCF. ALL EARTH FILL TO BE COMPACTED TO MINIMUM OF 60% OF STD. PROCTOR MAXIMUM DRY DENSITY.
- 3) THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVERSIZED STONES, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVELING WITH EQUIPMENT WHILE BEING CONSTRUCTED.
- 4) EXCAVATED SIDE SLOPES TO BE STABILIZED WITH GRASS COVER IN ACCORDANCE WITH SEEDING SPECIFICATIONS FROM EROSION & SEDIMENT CONTROL PLAN.
- 5) FINAL DAM EMBANKMENT SLOPES TO BE TRACKED AND STABILIZED WITH GRASS COVER IN ACCORDANCE WITH SEEDING SPECIFICATIONS FROM EROSION & SEDIMENT CONTROL PLAN.

POND MAINTENANCE

1. AFTER EVERY SIGNIFICANT RUNOFF PRODUCING RAINFALL EVENT AND AT LEAST MONTHLY:
 - A. INSPECT THE DRY DETENTION BASIN SYSTEM FOR SEDIMENT ACCUMULATION, EROSION, TRASH ACCUMULATION, VEGETATED COVER, AND GENERAL CONDITION.
 - B. CHECK AND CLEAR THE ORIFICE OF ANY OBSTRUCTIONS SUCH THAT DRAWDOWN OF THE TEMPORARY POOL OCCURS WITHIN 2 TO 5 DAYS AS DESIGNED.
2. REPAIR ERODED AREAS IMMEDIATELY, RE-SEED AS NECESSARY TO MAINTAIN GOOD VEGETATIVE COVER, MOW VEGETATIVE COVER TO MAINTAIN A MAXIMUM HEIGHT OF SIX INCHES, AND REMOVE TRASH AS NEEDED.
3. INSPECT AND REPAIR THE COLLECTION SYSTEM (I.E. CATCH BASINS, PIPING, SWALES, RIPRAP, ETC.) QUARTERLY TO MAINTAIN PROPER FUNCTIONING.
4. REMOVE ACCUMULATED SEDIMENT FROM THE DRY DETENTION BASIN SYSTEM SEMI-ANNUALLY OR WHEN DEPTH IS REDUCED TO 75% OF THE ORIGINAL DESIGN DEPTH (SEE DETAIL, THIS SHEET). REMOVED SEDIMENT SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER AND SHALL BE HANDLED IN A MANNER THAT WILL NOT ADVERSELY IMPACT WATER QUALITY (I.E. STOCKPILING NEAR A DETENTION BASIN OR STREAM, ETC.).
5. THE MEASURING DEVICE USED TO DETERMINE THE SEDIMENT ELEVATION SHALL BE SUCH THAT IT WILL GIVE AN ACCURATE DEPTH READING AND NOT READILY PENETRATE INTO ACCUMULATED SEDIMENTS.
6. SILT FENCE BARRIERS TO BE INSTALLED AS NOTED ON PLANS. ALTERNATE LOCATION OF CUTOFF PANEL IN SUCCESSIVE ROWS.
7. REMOVE CATTAILS AND OTHER ENDEGENOUS WETLAND PLANTS WHEN THEY COVER 50% OF THE BASIN SURFACE.
8. ALL COMPONENTS OF THE DRY DETENTION BASIN SYSTEM SHALL BE MAINTAINED IN GOOD WORKING ORDER.
9. IMMEDIATELY AFTER THE POND IS CONSTRUCTED, APPROPRIATELY SEED AND MULCH THE ENTIRE DISTURBED AREA IN ACCORDANCE WITH SEEDING SPECIFICATIONS FROM EROSION AND SEDIMENT CONTROL PLAN. STABILIZATION SHALL BE ACHIEVED WITHIN 14 DAYS OF CONSTRUCTION.



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**MARSHALL STEAM STATION
 FGD RESIDUE LANDFILL**
 CHARLOTTE, NORTH CAROLINA
 AS-BUILT DRAWING

REVISIONS	
NO.	DESCRIPTION
C-69-06	AS-BUILT CONCRETE PAD IN STORMWATER BASIN
B-7-17-06	ISSUED FOR CONSTRUCTION; REVISED OUTLET STRUCTURE DETAILS AS NOTED
A-12-7-03	ISSUED FOR DUKE REVIEW

PROJECT #: 04003.001 DATE: 12/7/05
 DRAWN BY: DB CHECKED BY: DB
 TITLE
 Cell 1 -
 Stormwater Basin
 Plan & Details
 DOCUMENT NO:
 MM6451.00-0006.001

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