

Fac/Perm/Co ID #	Date	Doc ID#
44-07	8,28,09	8465



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AUG 19 2009



**SOLID WASTE SECTION
ASHEVILLE REGIONAL OFFICE**

August 18, 2009

Mr. Allen Gaither
Solid Waste Permitting Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
2090 U.S. Highway 70
Swannanoa, North Carolina 28778

RE: Request to By-Pass Pump Leachate
Construction of MSW Phase 3
White Oak MSW Landfill
Haywood County, North Carolina
Permit # 44-07

Dear Mr. Gaither:

On behalf of Haywood County, McGill Associates makes this request to install a system to by-pass pump leachate at the White Oak Landfill during the construction of MSW Phase 3. As the Contractor has worked to expose the existing liner edge adjacent to the MSW Phase 2 sump area, leachate has been encountered and is inhibiting the Contractor's ability to work at this existing liner edge. The County is currently using tanker trucks to pump down the leachate in this area, but the County would like to install a more automated system that will operate until a Permit to Operate MSW Phase 3 is granted. The County requests a two-phase approach to handling this leachate. The piping described in the first phase will be installed and utilized upon your approval, and the second phase will require a few weeks to order parts and install the system. The following is a description of the two phases:

Phase 1

The County would like to utilize the new dual-contained leachate gravity line beneath MSW Phase 3 to pump leachate from the existing MSW Phase 2 sump area. This gravity pipe beneath MSW Phase 3 was constructed and tested in accordance with the permit drawings and project specifications. The flow would proceed through the dual-contained line and enter a manhole outside the liner edge of MSW Phase 3. From this manhole, the County requests that either a new temporary gravity line or pump and force main be utilized to convey leachate to the existing system. The Contractor will determine in the field the best option for removing leachate from this manhole. This piping (for both the gravity line and force main) will consist of single-wall piping, and will operate only until the Phase 2 system described below is installed, or until the remainder of the dual-contained gravity sewer is installed per the permitted drawings. This

measure will greatly assist the County in handling leachate from the existing MSW Phase 2 sump area. See Figure 1 for the location of the proposed single-wall gravity pipe/force main.

Phase 2

The County would like to install a more automated system that will be utilized until a Permit to Operate MSW Phase 3 is granted. The system will consist of installing 18" side slope riser pipes in the vicinity of the sumps at MSW Phase 2 and Phase 1, Cell 4. A side slope riser has already been installed near the sump in MSW Phase 2, as approved by Andrea Keller. This request includes installing submersible pumps (controlled by transducers) in the side slope risers, then pumping leachate through a force main over the landfill to a discharge point at the existing leachate collection system manhole near the leachate lagoon. The force main and side slope risers will be installed within the limits of the existing liner edge, except for approximately 12 l.f. of force main at the discharge manhole. The location of the two sumps and force main are shown on Figure 1. Details of the sump installation are included in Figure 2. The Contractor is still evaluating the impact of leachate on his work at the Phase 1, Cell 4 sump, and there is the possibility that this side slope riser may not be required. The County would like to obtain approval for both sump areas, but make a decision regarding the MSW Phase 1, Cell 4 as needed.

We appreciate your assistance with this matter. As mentioned to you on the phone, the Contractor would like to begin this work immediately. Please feel free to give me a call if you have any questions, and I can provide you any additional information that you may require.

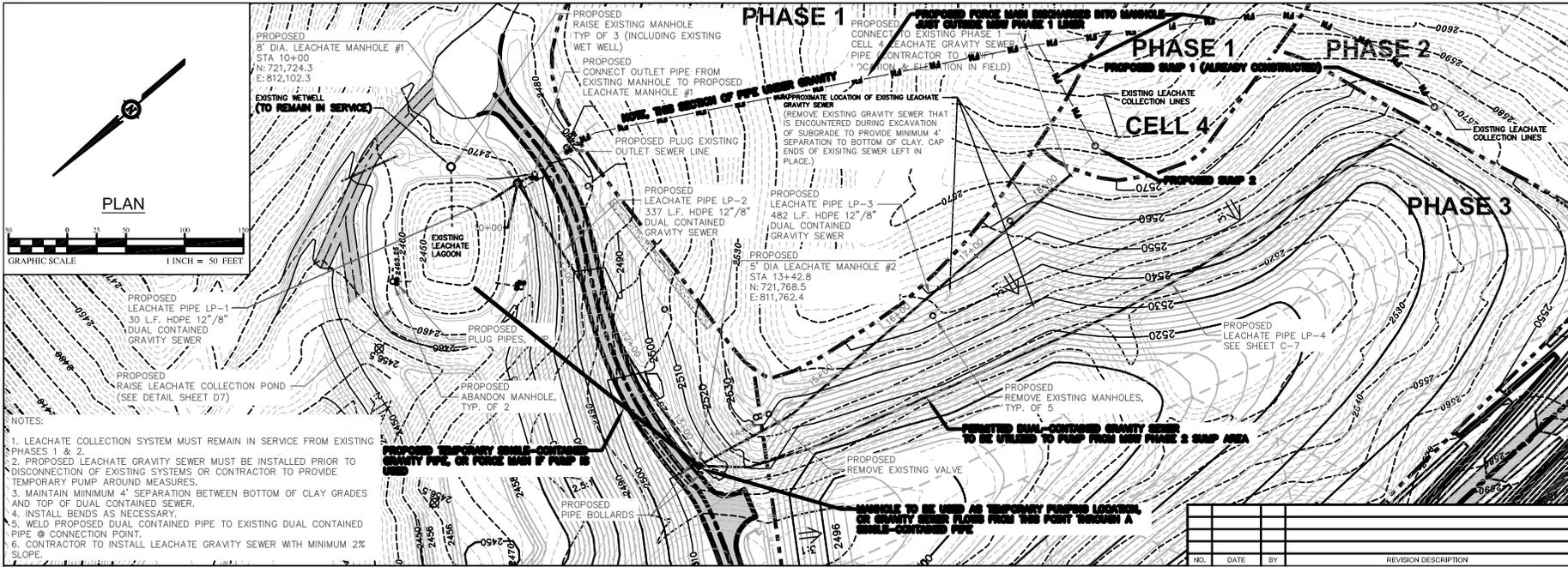
Sincerely,
MCGILL ASSOCIATES, P.A.



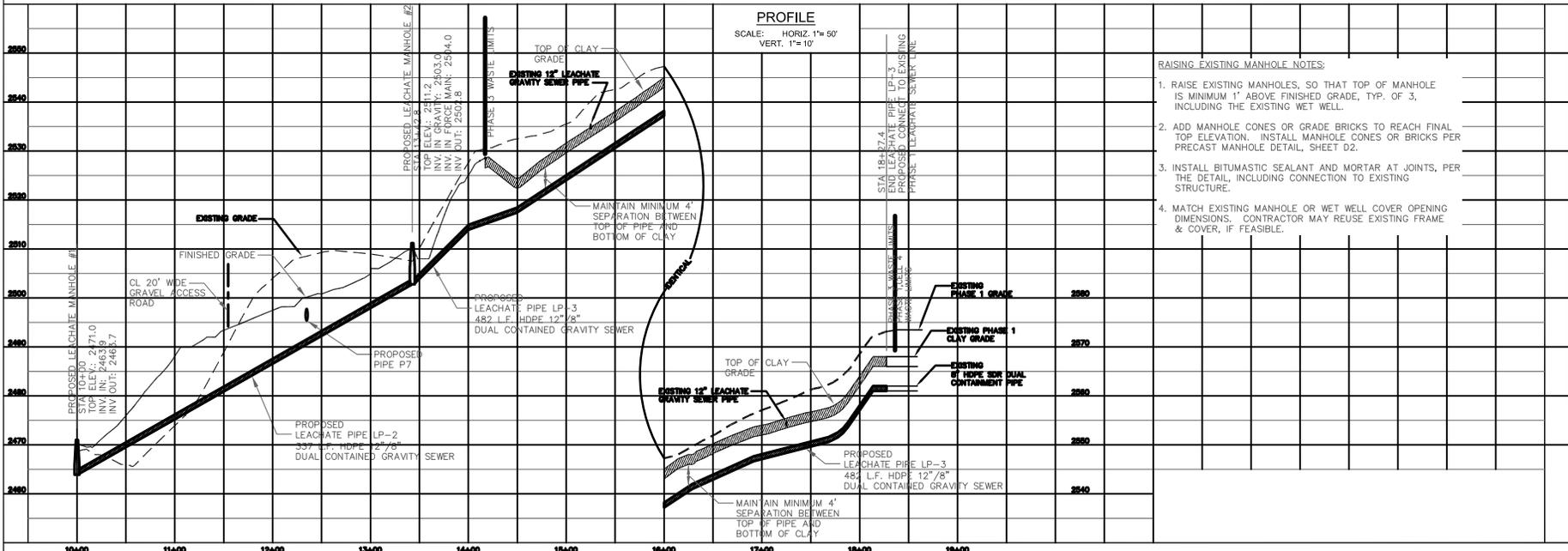
DAVE PASKO
Senior Engineering Technician

Enclosures

cc: Stephen King, Haywood County Director of Solid Waste, w/enc via email
Mark Shumpert, Haywood County Engineer, w/enc via email
Denese Ballew, White Oak Landfill Manager, w/enc via email



- NOTES:
1. LEACHATE COLLECTION SYSTEM MUST REMAIN IN SERVICE FROM EXISTING PHASES 1 & 2.
 2. PROPOSED LEACHATE GRAVITY SEWER MUST BE INSTALLED PRIOR TO DISCONNECTION OF EXISTING SYSTEMS OR CONTRACTOR TO PROVIDE TEMPORARY PUMP AROUND MEASURES.
 3. MAINTAIN MINIMUM 4" SEPARATION BETWEEN BOTTOM OF CLAY GRADES AND TOP OF DUAL CONTAINED SEWER.
 4. INSTALL BENDS AS NECESSARY.
 5. WELD PROPOSED DUAL CONTAINED PIPE TO EXISTING DUAL CONTAINED PIPE @ CONNECTION POINT.
 6. CONTRACTOR TO INSTALL LEACHATE GRAVITY SEWER WITH MINIMUM 2% SLOPE.



- RAISING EXISTING MANHOLE NOTES:
1. RAISE EXISTING MANHOLES, SO THAT TOP OF MANHOLE IS MINIMUM 1' ABOVE FINISHED GRADE, TYP. OF 3, INCLUDING THE EXISTING WET WELL.
 2. ADD MANHOLE CONES OR GRADE BRICKS TO REACH FINAL TOP ELEVATION. INSTALL MANHOLE CONES OR BRICKS PER PRECAST MANHOLE DETAIL, SHEET D2.
 3. INSTALL BITUMASTIC SEALANT AND MORTAR AT JOINTS, PER THE DETAIL, INCLUDING CONNECTION TO EXISTING STRUCTURE.
 4. MATCH EXISTING MANHOLE OR WET WELL COVER OPENING DIMENSIONS. CONTRACTOR MAY REUSE EXISTING FRAME & COVER, IF FEASIBLE.

McGill ASSOCIATES
ENGINEERING PLANNING FINANCE
35 BROAD STREET ASHVILLE, NC 28801
PH: (828) 252-0573

HAYWOOD COUNTY
NORTH CAROLINA

WHITE OAK MSW LANDFILL
CONSTRUCTION DRAWINGS
MSW PHASE 3

DATE: AUGUST 2008
DESIGNED BY: DAP
CADD BY: KS
DESIGN REVIEW: [Signature]
CONTRACT REVIEW: [Signature]

LEACHATE BY-PASS
PUMPING

FIGURE
1

C:\DWG\2008\CONSTR\CONSTR\WHITE OAK MSW LANDFILL\MSW PHASE 3\DWG\MSW PHASE 3.PLT

