



October 9, 2013

Permit No.	Date	Document ID No.
43-07	October 11, 2013	19952

PN: 03005A
03002B

Ming-Tai Chao, PE
Solid Waste Section
217 W Jones St
Raleigh, NC 27699

Sent by an e-mail
Date: **October 10, 2013**
Solid Waste Section
Raleigh Central Office

**RE: Transfer Station Design Revision
Dunn-Erwin Landfill, Permit 43-07T
(via email & hardcopy)**

On behalf of Harnett County, we submit the following seeking approval to amend the previously approved design for the tipping floor of the Dunn Erwin Transfer Station:

As you may be aware from conversations with other Section staff and from our submitted site visit/inspection reports, the County is currently in dispute with the Contractor due to issues with the new concrete approach apron and tipping floor system. The new concrete approach apron has experienced significant shrinkage cracking since the installation on August 8, 2013. Due to this the Contractor has been notified of the defective work and has been requested to remove and replace the work in question.

Due to this opportunity and the recent passage of House Bill 74, specifically Section 59.3, that modifies GS 130A-290 to state "*The term leachate does not include liquid adhering to tires of vehicles leaving a sanitary landfill and transfer stations.*", the County wishes to submit the attached revised design for the grading of the Transfer Station floor. The revised design shown on the attached drawing includes the following:

1. Removal/abandonment of the exterior leachate collection drain that previously collected runoff from the concrete approach apron where liquid adhering to tires leaving the transfer station was tracked.
2. The tipping floor is being extended to the edge of the new building extension.
3. The proposed floor grades associated with this change direct all drainage from the tipping floor to the internal building leachate drains.

The proposed tipping floor extension will still meet the criteria of the previously issued Permit to Construct and Operate and will not change the operational capacity of the transfer station. It will however allow for more efficient use of the building and tipping floor and reduce the chance of violating the permit conditions.

46 West Washington Street - Coats, North Carolina 27521

Phone: 910-897-7070 - Fax: 910-897-6767

Offices located in Coats and New Bern, North Carolina

www.ctclayton.com

The County is diligently trying to reopen the transfer station as soon as possible. Your prompt review of the attached design modification would be appreciated very much. We would like the Solid Waste Section's concurrence prior to initiating the design change.

A digital copy of this package is being emailed to you today. Should you need anything that is not contained in this package, please let me know either by email (tyrus@ctclayton.com) or by phone (910-897-7070) and I will respond promptly.

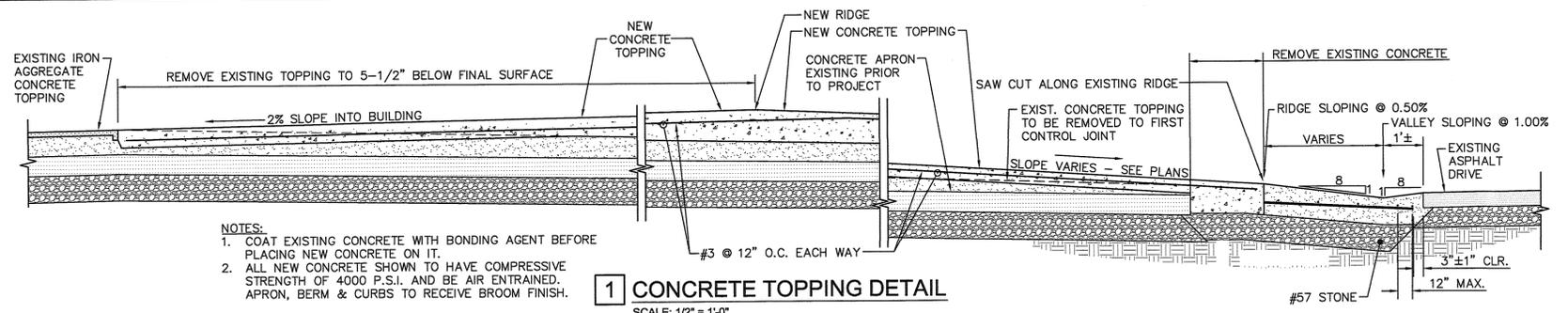
Sincerely,



C. Tyrus Clayton, Jr., PE

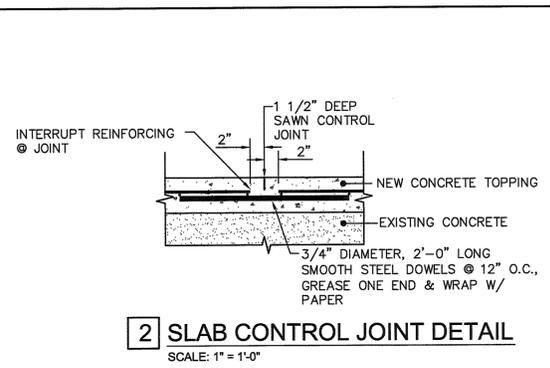
attachment: Drawing Sheet 2.2.2A "Bulletin 15"

cc: file
Amanda Bader, PE, Harnett County Engineer
Joseph Jefferies, Deputy Harnett County Manager
Randy Smith, Harnett County Solid Waste Operations Manager
Dennis Shackelford, DWM
Robert Hearn, DWM
Ed Mussler, DWM

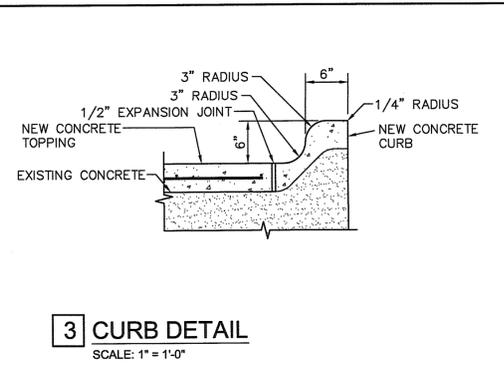


NOTES:
 1. COAT EXISTING CONCRETE WITH BONDING AGENT BEFORE PLACING NEW CONCRETE ON IT.
 2. ALL NEW CONCRETE SHOWN TO HAVE COMPRESSIVE STRENGTH OF 4000 P.S.I. AND BE AIR ENTRAINED. APRON, BERM & CURBS TO RECEIVE BROOM FINISH.

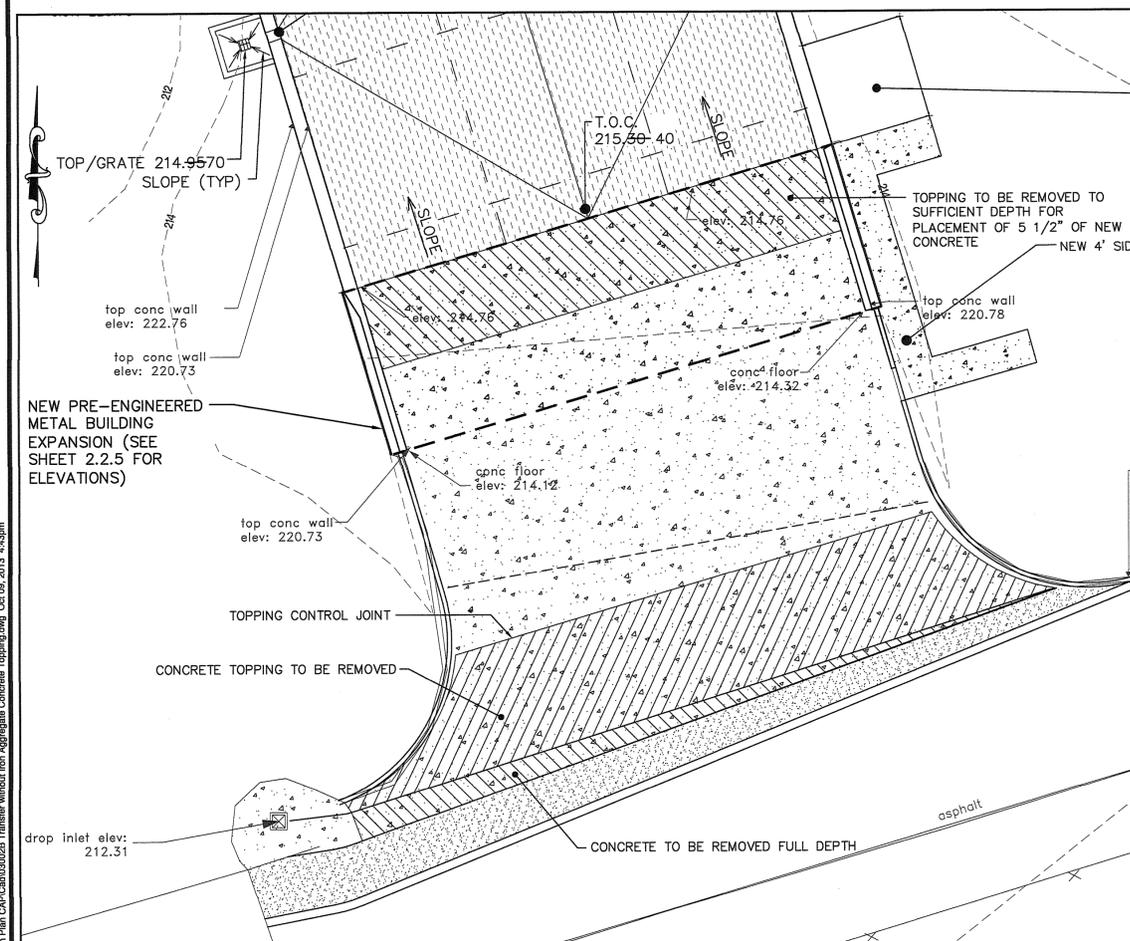
1 CONCRETE TOPPING DETAIL
 SCALE: 1/2" = 1'-0"



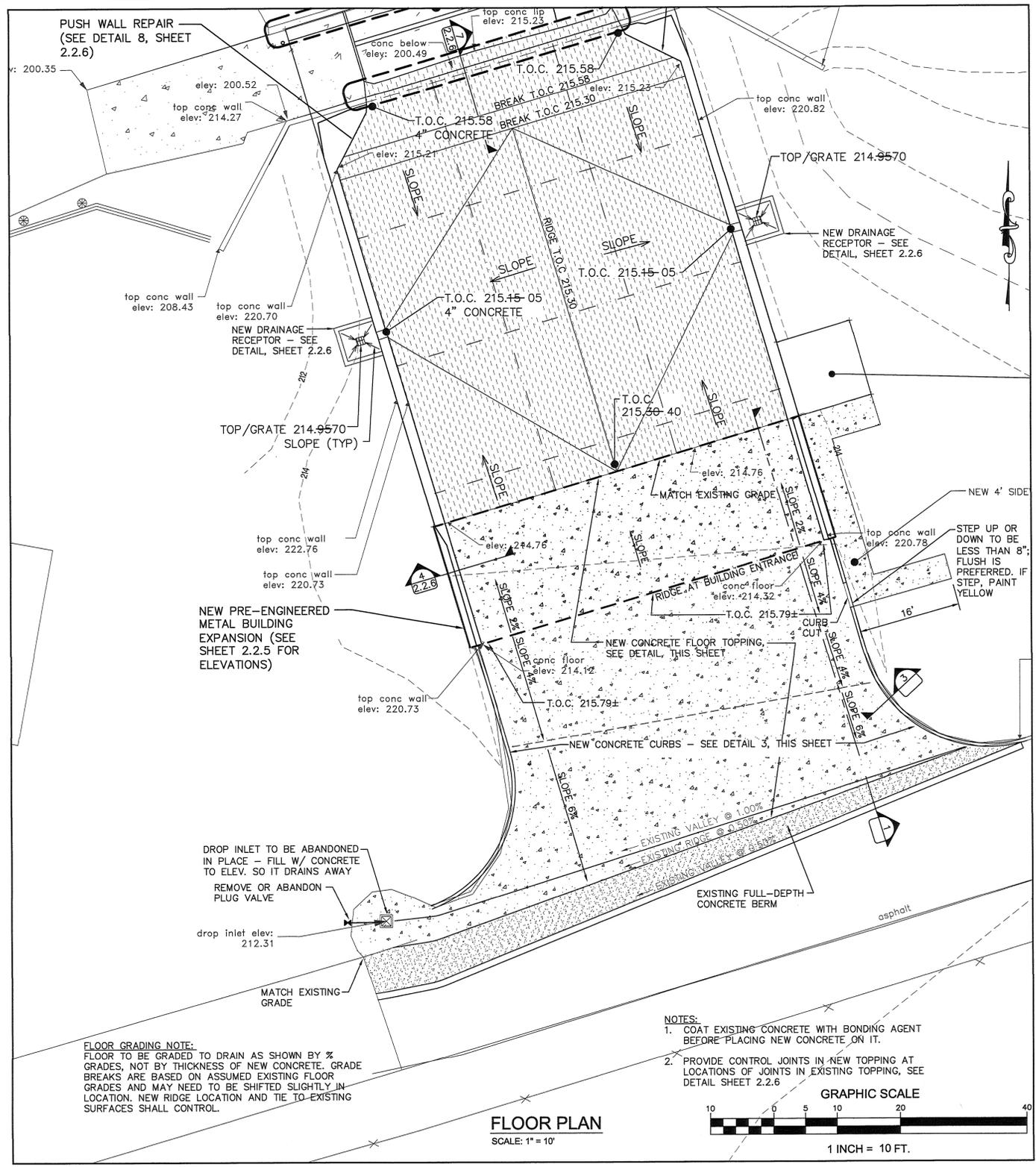
2 SLAB CONTROL JOINT DETAIL
 SCALE: 1" = 1'-0"



3 CURB DETAIL
 SCALE: 1" = 1'-0"

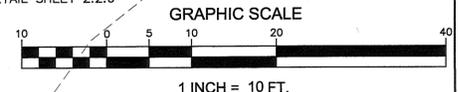


FLOOR DEMOLITION PLAN
 SCALE: 1" = 10'



FLOOR GRADING NOTE:
 FLOOR TO BE GRADED TO DRAIN AS SHOWN BY % GRADES. NOT BY THICKNESS OF NEW CONCRETE. GRADE BREAKS ARE BASED ON ASSUMED EXISTING FLOOR GRADES AND MAY NEED TO BE SHIFTED SLIGHTLY IN LOCATION. NEW RIDGE LOCATION AND TIE TO EXISTING SURFACES SHALL CONTROL.

NOTES:
 1. COAT EXISTING CONCRETE WITH BONDING AGENT BEFORE PLACING NEW CONCRETE ON IT.
 2. PROVIDE CONTROL JOINTS IN NEW TOPPING AT LOCATIONS OF JOINTS IN EXISTING TOPPING, SEE DETAIL SHEET 2.2.6



FLOOR PLAN
 SCALE: 1" = 10'

General Notes
 LEGEND
 elev. EXISTING ELEVATION
 T.O.C. PROPOSED ELEVATION

PERMIT DOCUMENT
 NOT FOR CONSTRUCTION

No.	Revision/Issue	Date

Professional Engineer Seal for Tyus Clayton, Jr., License No. 028609, dated 10/9/2013.

Clayton, Sr., P.E., Inc.
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HARNETT COUNTY DUNN-ERWIN LANDFILL PROJECT 2

HARNETT COUNTY, NORTH CAROLINA
 Project No: 03002B File Name: 03002B Transfer without Iron Aggregate Concrete Topping.dwg
 Designed By: CTC Jr. Drawn By: SBK
 Checked By: CTC Jr. Proj. Eng.: CTC Jr.

Sheet Title: BULLETIN #15
 Date: 10/7/13 Sheet
 Scale: AS NOTED **2.2.2A**
 OF 6

P:\03 Harnett County\03002B Connective Action Plan\CA\03002B Transfer without Iron Aggregate Concrete Topping.dwg Oct 09, 2013 4:43pm

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