Wilson, Donna

From: David Garrett [david@davidgarrettpe.com]
Sent: Tuesday, May 12, 2009 2:14 AM
To: 'Donna Wilson'; ed.mussler@ncmail.net
Cc: 'judson whitehurst'; 'John A.K. Tucker, PE'; 'Wayne Bell'
Subject: Response to 4-16-09 Review Comments
Attachments: Response to Donna Wilson e-mail comments 4-16-09.pdf

Please refer to the attached letter with supporting documents. A copy of the response has been placed on the ftp site (access info given below). Please call me if you have any questions.

ftp://ftp.davidgarrettpe.com

user id: public01

password: east102

folder: C&D Landfill pdf

Thank you.

David Garrett, P.G., P.E.
David Garrett & Associates
5105 Harbour Towne Drive
Raleigh, NC 27604

Tel. 919-418-4375 (mobile)

David Garrett & Associates
Engineering and Geology

May 12, 2009

MEMORANDUM

TO: Ed Mussler, PE, Donna Wilson – NC DENR Solid Waste Section

FR: David Garrett, PG, PE

CC: Judson Whitehurst, Wayne Bell - C&D Landfill, Inc.; John Tucker, PE

RE: Response to comments for C&D Landfill
NC Solid Waste Permit #74-07

The following is a response to comments received from Donna Wilson of the Solid Waste Section via e-mail on April 16, 2009. John Tucker and I contributed to the response, with additional input from the surveyor, Tip Burgess of Burgess Land Surveys. I met with Ms. Wilson on May 6, 2009 to discuss a partial submittal, with an additional partial submittal on May 7, 2009 (as noted in an item-by-item response to the comments given below). The documents furnished thus far are attached for convenience. At present, we have responded to the comments and are waiting on a final survey and deed revision. Upon satisfactory completion of the review, we will update the electronic submittal (in pdf format). Ms. Wilson's comments and my responses are given below:

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Dave - I've reviewed the responses to comments submitted on April 3 on
CD, April 6 by email, April 9 by email (wetlands 2001 from Duncan
Parnell), and April 9 by email (wetlands information from John Tucker).
Please address the following comments:

   1. Of the nine land deeds submitted, one deed appears to be for the
      Phase 1 property, and one appears to be for the entrance
      parcel/transfer station, but the other 7 deeds appear to be
      unrelated to the landfill. Please clarify. Please provide the land
      deed to the Phase 2 property. I believe it is most likely Deed
      book 1105, page 306.
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A preliminary revised survey map showing the combined properties as one plat (with acreage) has been prepared by Tip Burgess and has been filed with the Pitt County Register of Deeds (as of May 7, 2009) in pursuit of a correction deed. Copies of the deed and plat will be forwarded to the SWS as soon as they are received. A pdf of the survey was forwarded via e-mail to the SWS on May 11, 2009. Once these documents are completed, the other nine deeds mentioned in Ms. Wilson's comments will be superseded and, thus, those deeds should be removed from the permit file.

5105 Harbour Towne Drive • Raleigh • North Carolina • 27604
919-418-4375 (Mobile) • 919-231-1818 (Office fax) • E-mail: david@davidgarrettpe.com

2. The Phase 1 property, the Phase 2 property, and the added buffers on the east and west sides of Phase 2 must be recombined to one landowner, and one parcel. Please provide a copy of the two land deeds for the recombination property on the east and west sides of Phase 2, in which the property is combined with the Phase 2 property, and a copy of the recombination map recorded at the register of deeds for the recombined property. Phase 1 and Phase 2 property must also be combined because otherwise there must be a 200 foot buffer from the Phase 2 disposal area to the Phase 1 property line. The drawing submitted, adding the buffers to the east and west of Phase 2, was not signed by the surveyor.

This comment is addressed by Response #1 above. All drawings and deed documents will be signed by the appropriate parties.

3. Please show the direction of stormwater flow around the landfill base for Phase 2.

Half-size copies of the full drawing set were presented to (and reviewed with) Ms. Wilson on May 6, 2009. The flow direction arrows have been made clearly visible at all viewing scales.

4. The drawing showing the location of the 0.05 acre wetland area in Phase 2B appears to locate the wetland area further north in the Phase than it is represented on the wetlands drawings. Refer also to drawing S4 from Nov. 2008.

John Tucker revised the supplemental drawing (originally furnished in April) by overlaying the 2003 wetlands survey, which shows the 0.05 acre area, on the footprint drawings for Phase 2A and 2B. The supplemental drawing, presented to Ms. Wilson on May 7, 2009 (see attached), clearly shows the wetlands area outside of the Phase 2A footprint, but the original submittal was in error. I anticipate that the forthcoming permit to construct (PTC) will stipulate that this area be staked and protected until further evaluations with the Corps of Engineers can be completed.

5. Please provide revised engineering drawings – electronic copy and one paper copy (half size will be OK). The drawings submitted April 3 were missing drawings E3, EC2, X1, X2, X3, X4, and MP1. I haven't received the half size drawings as noted in the last response to comments.

The 11 x 17 inch prints of the most recent drawings were presented on May 6, 2009 and electronic copies were forwarded on May 8, 2009. Per my meeting with Ms. Wilson, I will furnish a complete updated electronic submittal when the review is all done.

6. Please provide page 3 of 4 and page 4 of 4 for the wetlands delineation maps that apply to the 2008 reevaluation boxed area. The drawings submitted on April 3 apply to the 2003 wetlands determination.

A revised 2008 wetlands map with corrected page numbers was submitted on May 7, 2009, with input from Tip Burgess. Per my meeting with Ms. Wilson on that day, there is no page 3 or 4 for the 2008 wetlands survey.

7. Revised page Section 5.5.4, Page 8 was not included in the last submittal, as the response to comments indicated. The previous comment is - Section 5.5.4 - The soil volume calculation and landfill capacity numbers listed are not consistent with the numbers listed in Appendix 2; please clarify.

The revised page was submitted approximately three weeks ago. Ms. Wilson acknowledged she had received it.

Thanks, Donna

--
Donna J. Wilson
Environmental Engineer
Solid Waste Section/Division of Waste Management
NC DENR
1646 Mail Service Center
Raleigh NC 27699-1646
Phone 919-508-8510
Section webpage - http://wastenotnc.org/swhome

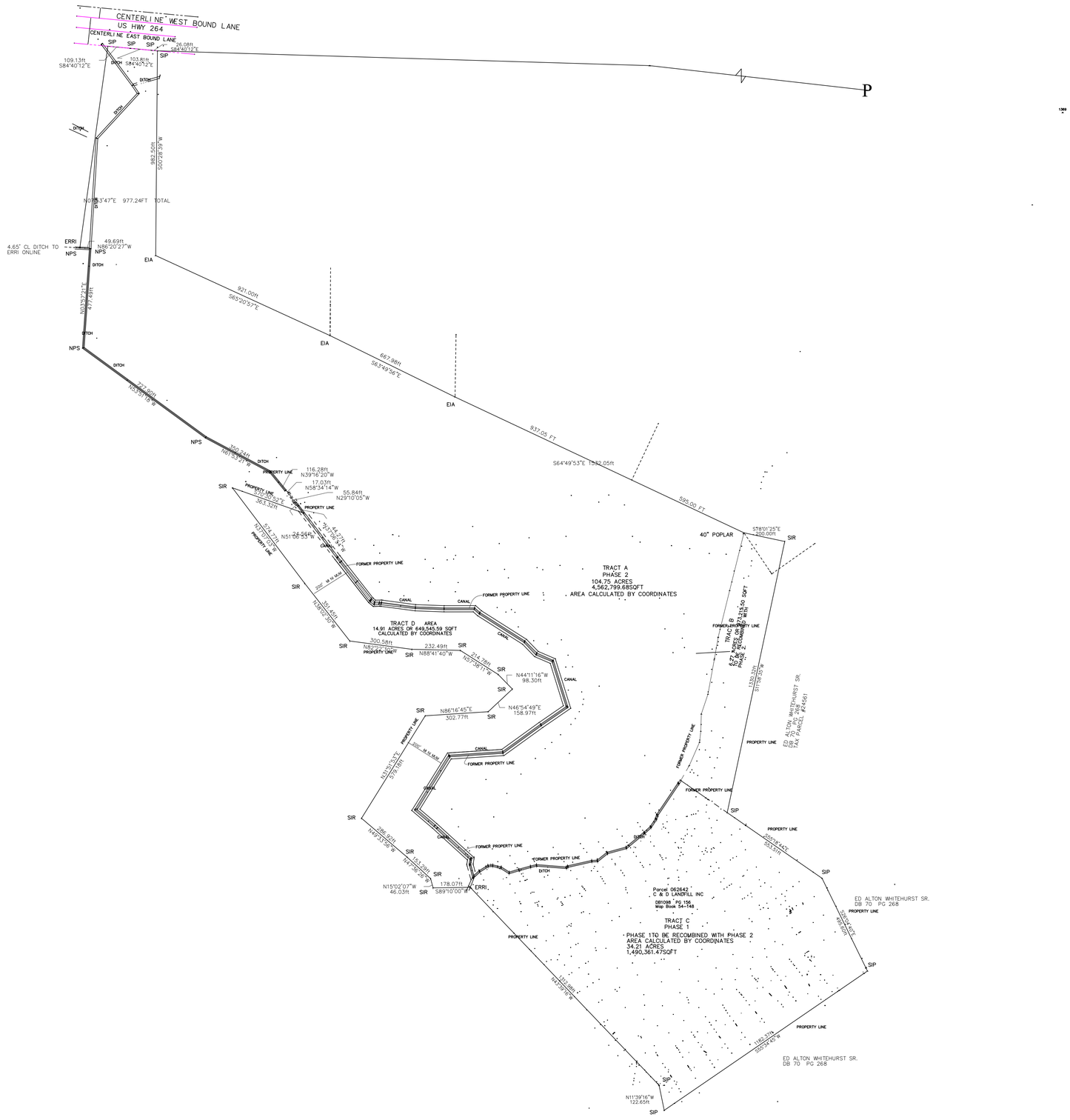
This concludes the comments and responses. Please note that a verbal comment I received from Ms. Wilson during our meeting of May 7, 2009 pertained to a tally of the acreage involved in the recombination map. The acreages are shown on the preliminary revised survey map (attached) – this necessitated a revision to page 2, Section 1.3, of the application text (also attached).

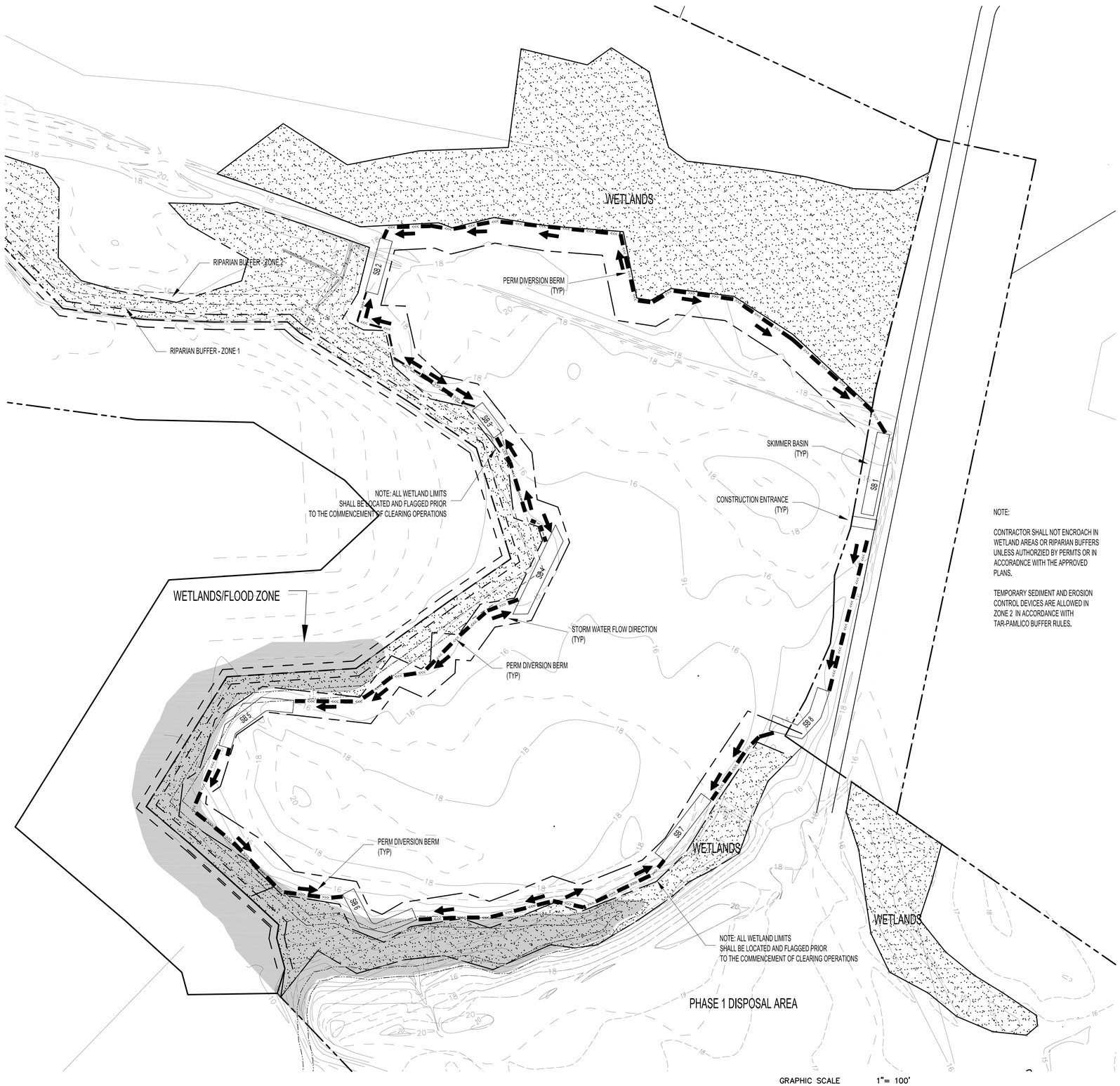
Please contact me if I can be of further assistance.

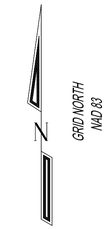
Sincerely,

G. David Garrett, P.G., P.E.
Consulting Engineer

Attachments


CENTERLINE WEST BOUND LANE
US HWY 264
CENTERLINE EAST BOUND LANE
SIP
26.08ft
S84°40'12"E
109.13ft
S84°40'12"E
103.81ft
S84°40'12"E
DITCH
982.50ft
S00°28'39"W
N00°53'47"E 977.24FT TOTAL
4.65' CL DITCH TO
ERRI ONLINE
ERRI
NPS
49.69ft
N86°20'27"W
EIA
921.00ft
S65°20'57"E
667.98ft
S63°49'56"E
937.05 FT
S64°49'53"E 1532.05ft
595.00 FT
40" POPLAR
S78°01'25"E
200.00ft
SIR
PROPERTY LINE
116.28ft
N39°16'20"W
17.03ft
N58°34'14"W
55.84ft
N29°10'05"W
FORMER PROPERTY LINE
CANAL
TRACT A
PHASE 2
104.75 ACRES
4,562,799.68SQFT
AREA CALCULATED BY COORDINATES
TRACT D AREA
14.91 ACRES OR 649,545.59 SQFT
CALCULATED BY COORDINATES
300.58ft
232.49ft
N88°41'40"W
214.78ft
N57°38'11"W
N44°11'16"W
98.30ft
N46°54'49"E
158.97ft
N86°16'45"E
302.77ft
TRACT B
8.27 ACRES OR 13,215.50 SQFT
TO BE RECOMBINED WITH
PHASE 2.
1330.32ft
S11°58'35"W
ED ALTON WHITEHURST SR.
DB 70 PG 268
TAX PARCEL #24561
N31°51'53"E
579.18ft
286.92ft
N49°33'56"W
153.29ft
N47°36'26"W
N15°02'07"W
46.03ft
178.07ft
S89°10'00"W
ERRI
Parcel 062642
C & D LANDFILL INC
DB1098 PG 156
Map Book 54-148
TRACT C
PHASE 1
PHASE 1TO BE RECOMBINED WITH PHASE 2
AREA CALCULATED BY COORDINATES
34.21 ACRES
1,490,361.47SQFT
ED ALTON WHITEHURST SR.
DB 70 PG 268
S58°34'40"E
499.60ft
1312.98ft
N43°39'16"W
1182.37ft
S55°34'45"W
ED ALTON WHITEHURST SR.
DB 70 PG 268
N11°39'16"W
122.65ft





NOTE:

CONTRACTOR SHALL NOT ENCROACH IN WETLAND AREAS OR RIPARIAN BUFFERS UNLESS AUTHORZIED BY PERMITS OR IN ACCORADNCE WITH THE APPROVED PLANS.

TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE ALLOWED IN ZONE 2 IN ACCORDANCE WITH TAR-PAMLICO BUFFER RULES.

PITT COUNTY CONSTRUCTION SEQUENCE

1. Obtain a land-disturbing permit. Schedule a pre-construction conference with the Environmental Engineer
2. Locate and flag all adjoining wetlands and riparian buffers. Contractor assume all reponsibilty for any unauthorized encroachment into these areas.
3. Install gravel construction pad, permanent diversions, silt fence, sediment basins or other measures as shown on the approved plan. Clean only as necessary to install these devices. Seed temporary diversions, berms and basins immediately after construction.
4. Call Pitt County for an onsite inspections by the Environmental Engineer to obtain a Certificate of Compliance.
5. Begin clearing and grubbing. Maintain devices as needed.
6. Begin bringing site to grade.
7. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. Seed and mulch denuded areas within fifteen (15) days of completion of any phase of construction.
8. When construction is complete and all areas are stabilized completely, call Pitt County for an inspection by the Environmental Engineer.
9. If site is approved, remove temporary diversions, silt fence, sediment basins, etc., and seed out or stabilize any resulting bare areas. All remaining permanent erosion control devices, such as velocity dissipators, should now be installed. Sediment basins removed only with approval of Pitt County.
10. When vegetation has established, call Pitt County for a final site inspection by the Environmental Engineer. Obtain a Certificate of Completion.

SEEDING SCHEDULE
(REVISED: 1-1-86)

Shoulders, Side Ditches, Slopes (Max 3:1)

DATE	TYPE	PLANTING RATE
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue	300 lbs/acre
	& Abruzzi Rye	25 lbs/acre
Mar 1 - Apr 15	Tall Fescue	300 lbs/acre
Apr 15 - Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1 - Aug 15	Tall Fescue and	120 lbs/acre
	***Browntop Millet	35 lbs/acre
	***or Sorghum-Sudan Hybrids	30 lbs/acre

Slopes (3:1 to 2:1)

Mar 1 - Jun 1	Sericea Lespedeza (scarified)	50 lbs/acre
	&	
(Mar 1 - Apr 15)	Add Tall Fescue	120 lbs/acre
(Mar 1 - Jun 30)	Or Add Weeping Lovegrass	10 lbs/acre
(Mar 1 - Jun 30)	Or Add Hulled Common Bermudagrass	25 lbs/acre
Jun 1 - Sep 1	***Tall Fescue and	120 lbs/acre
	***Browntop Millet	35 lbs/acre
	***or Sorghum-Sudan Hybrids	30 lbs/acre
Sep 1 - Mar 1	Sericea Lespedeza (unhulled-unscarified)	70 lbs/acre
	and Tall Fescue	120 lbs/acre
(Nov 1 - Mar 1)	Add Abruzzi Rye	25 lbs/acre

Consult Conservation Engineer or Soil Conservation Service for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.
***Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12" in height before mowing, otherwise fescue may be shaded out.

SEEDBED PREPARATION

1.) CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.

2.) RIP THE ENTIRE AREA TO 6 INCHES DEPTH.

3.) REMOVE ALL LOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. SUPERPHOSPHATE

4.) APPLY AGRICULTURAL LIME, FERTILIZER, AND UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).

5.) CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM INCHES REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 DEEP.

6.) SEED ON A FRESHLY PREPARED SEEDBED AND COVER AFTER SEEDING. SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK.

7.) MULCH WITH STRAW (1-2 TNS PER AC) IMMEDIATELY AFTER SEEDING. ANCHOR MULCH WITH ASPHALT. APPLY ASPHALT AT 10 GAL PER 1000 SQUARE FEET. HEAVIER APPLICATIONS CAUSE STRAW TO "PERCH" OVER RILLS.

8.) INSPECT ALL SEEDED AREAS AND MAKE NECESSARY RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. FOLLOWING STAND SHOULD BE OVER 60%DAMAGED, REESTABLISH ORIGINAL LIME, FERTILIZER AND SEEDING RATES.

9.) CONSULT CONVERSATION INSPECTOR ON MAINTENANCE ESTABLISHED.

TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS
* APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ ACRES (3 TONS/ ACRE IN CLAY SOILS)
FERTILIZER - 1,000 lbs. / ACRE -10-10-10
SUPERPHOSPHATE- 500 lbs> / ACRE -20%ANALYSIS

C&D Landfill Phase 2
Skimmer Basin Design

Basin Number	DA	Peak Q - 10 yr	Top Width	Top Length	Side Slope	Depth	Bottom Width	Bottom Length	Bottom Area	Actual Volume	Actual Area	Trial Weir Lenth
	(ac)	(cfs)	(ft)	(ft)	(z:1)	(ft)	(ft)	(ft)	(sf)	(cf)	(sf)	(ft)
1	3.15	9.3	25	130	2	2.5	15	120	1800	6224	3250	10
2	2.01	5.9	25	110	2	2.5	15	100	1500	5234	2750	6
3	1.36	4	25	110	2	2.5	15	100	1500	5234	2750	6
4	3.34	9.8	25	130	2	2.5	15	120	1800	6224	3250	10
5	2.92	8.6	25	120	2	2.5	15	110	1650	5729	3000	10
6	2.81	8.3	25	110	2	2.5	15	100	1500	5234	2750	10
7	2.92	8.6	25	120	2	2.5	15	110	1650	5729	3000	10
8	2.36	7	25	110	2	2.5	15	100	1500	5234	2750	10

LEGEND

CLEARING LIMITS/PERM. DIVERSION BERM <<<
TAR-PAM BUFFER
SILT FENCE

February 18, 2008

John A. K. Tucker, P.E.
Consulting Engineer
P.O. Box 297 Fuquay-Varina, North Carolina 27526
(919) 567-0483 fax (919) 567-3611
Email: johnatk@johntuckerpe.com

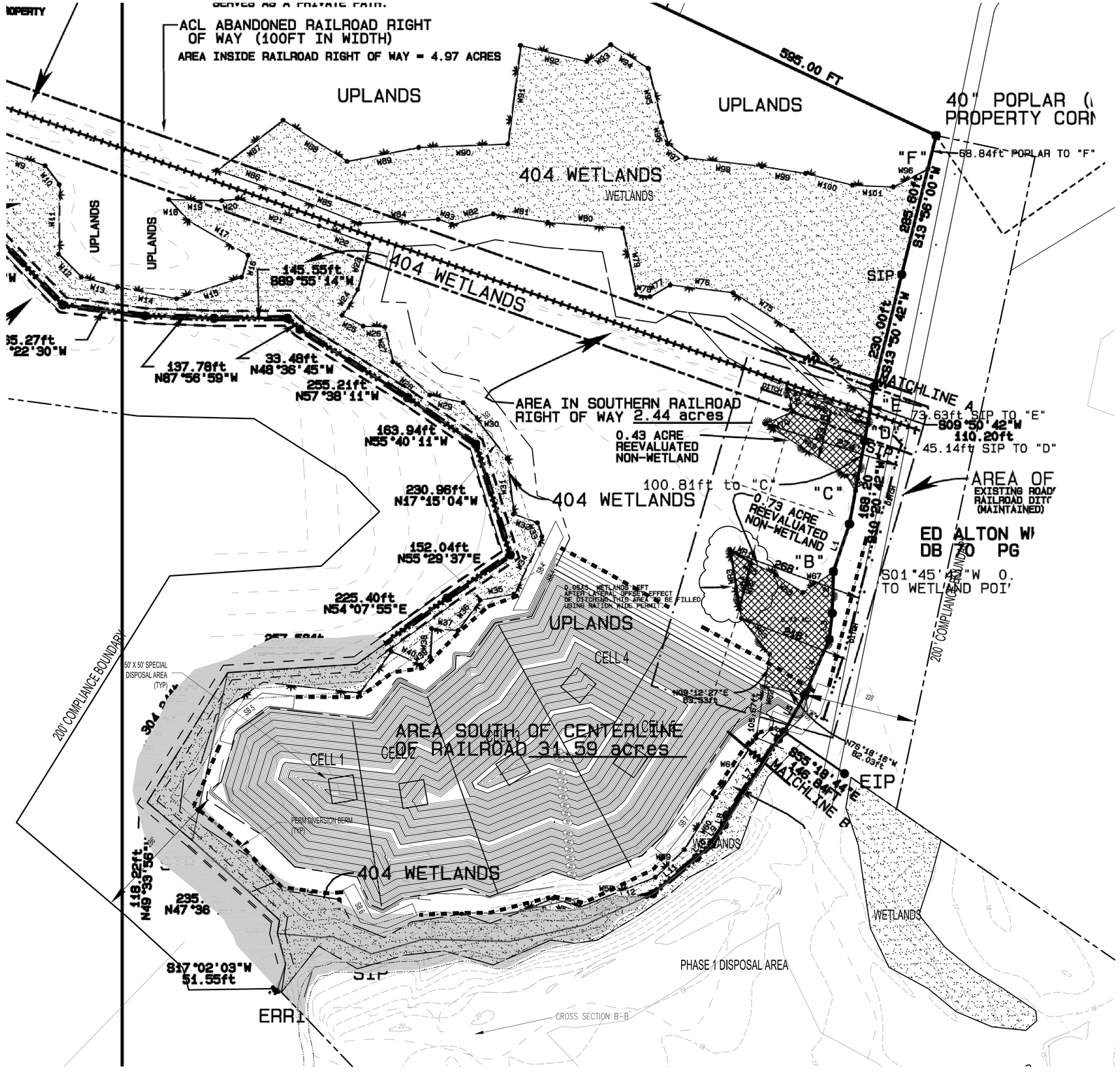
C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
SEDIMENTATION & EROSION CONTROL

1.	REVISED PER DSN COMMENTS	10-30-08

REVISIONS

EC 1



NOTE:

THE .05 AC WETLANDS SHOWN ON THIS DRAWING ARE TAKEN FROM AN IMAGE OVERLAY OF A MAP PREPARED BY BURGESS LAND SURVEYING, ENTITLED "WETLANDS SURVEY FOR EJE RECYCLING, INC." REVISED 08/29/2003 .
ALL PREVIOUS REFERENCES TO THE .05 AC WETLANDS SHOULD BE DISCARDED.

LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPSED GRADE	18
DIVERSION BERM (DIRECTION OF FLOW)	<<<
SILT FENCE	
WETLANDS	
FLOOD ZONE	

GENERAL NOTES:

1. Boundary, topographic and wetland information take from maps prepared by James A. Burgess, PLS, P.O. Box 881, Greenville, NC 27834, 252-758-4900
2. All work shall be in accordance with applicable Federal, State and Local regulations.
3. Contractor shall at all times maintain adequate safety measures , activities, and barricades, for the protection of all persons on or about the site.
   ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH DIVISION OF THE NC DEPARTMENT OF LABOR.

   Contractor shall be responsible for the design of adequate shoring and bracing in all trenches and excavations that are a part of the construction operations of this project. Contractor shall be responsible for installation and maintenance of adequate shoring and bracing, and the protection of all persons and property on or about the site.

GRAPHIC SCALE 1"= 100'
0 100 200 300

February 18, 2008

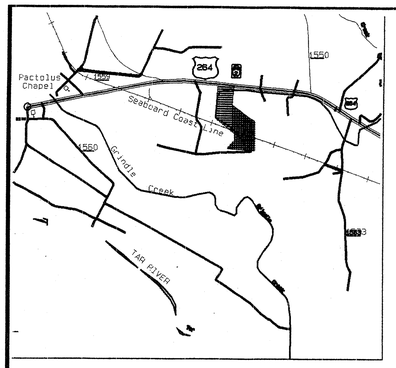
John A. K. Tucker, P.E.
Consulting Engineer
P.O. Box 297 Fuquay-Varina, North Carolina 27526
(919) 567-0483 fax (919) 567-3611
Email: johnak@johntuckerpe.com

C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
SUPPLEMENTAL WETLAND DRAWING

REVISIONS

SUPP 1



VICINITY MAP
NOT TO SCALE

LINE	BEARING	DISTANCE
L1	S18°35'42"W	100.00ft
L2	S01°46'42"W	83.00ft
L3	S06°20'42"W	52.70ft
L4	S23°45'42"W	121.83ft
L5	S29°33'22"W	83.27ft
L6	S36°54'27"W	18.52ft
L7	S33°56'04"W	182.75ft
L8	S16°38'15"W	20.46ft
L9	S33°40'06"W	45.94ft
L10	S48°00'57"W	40.17ft
L11	S50°28'34"W	113.15ft
L12	S74°42'00"W	94.51ft
L13	S51°13'06"W	60.46ft
L14	S87°03'14"W	27.35ft
L15	S77°17'41"W	117.68ft
L16	S50°34'43"W	8.73ft
L17	N85°28'28"W	144.17ft
L18	S76°40'57"W	29.31ft
L19	S74°45'45"W	57.61ft
L20	S73°12'35"W	49.21ft
L21	N67°11'53"W	46.67ft
L22	N76°29'18"W	40.74ft
L23	S85°31'02"W	22.37ft
L24	S58°04'00"W	48.64ft
L25	S47°12'59"W	40.03ft
L26	N15°02'07"W	62.82ft
L27	N08°56'43"E	26.87ft

404 WETLAND CALLS

E-F

LINE	BEARING	DISTANCE
W74	N46°57'59"W	216.14ft
W75	N57°08'55"W	139.33ft
W76	N82°54'43"W	126.05ft
W77	S59°48'35"W	46.34ft
W78	N81°15'45"W	28.32ft
W79	N11°35'16"W	135.05ft
W80	N85°39'34"W	149.30ft
W81	N81°13'01"W	109.81ft
W82	S76°07'54"W	85.41ft
W83	N59°46'19"W	28.95ft
W84	S87°02'45"W	156.30ft
W85	N58°35'32"W	161.89ft
W86	N70°46'09"W	141.99ft
W87	N52°50'34"E	165.08ft
W88	S57°16'08"E	151.88ft
W89	N78°58'52"E	145.84ft
W90	N87°49'31"E	177.28ft
W91	N07°21'13"E	198.23ft
W92	S76°17'07"E	135.71ft
W93	N54°41'47"E	58.78ft
W94	S57°40'05"E	88.94ft
W95	S13°49'26"E	110.71ft
W96	S15°38'18"E	44.92ft
W97	S53°09'39"E	45.87ft
W98	S83°34'11"E	151.70ft
W99	S80°42'07"E	88.61ft
W100	S76°02'08"E	96.37ft
W101	S87°29'06"E	81.42ft
W102	N62°32'55"E	77.58ft

A-B

LINE	BEARING	DISTANCE
W1	S48°04'09"E	16.72ft
W2	S70°47'55"E	46.12ft
W3	S49°17'10"E	43.26ft
W4	S33°59'09"E	49.90ft
W5	S70°07'32"E	24.69ft
W6	S10°35'47"W	23.22ft
W7	S43°39'39"E	95.60ft
W8	N79°50'59"E	87.52ft
W9	S71°43'29"E	94.22ft
W10	S37°09'49"E	46.97ft
W11	S00°35'33"W	139.12ft
W12	S44°49'38"E	64.29ft
W13	S74°31'53"E	74.86ft
W14	S76°45'01"E	120.06ft
W15	N71°40'15"E	136.49ft
W16	N16°27'25"E	45.91ft
W17	N60°09'29"W	137.27ft
W18	N42°28'03"W	57.97ft
W19	S86°40'41"E	105.81ft
W20	N82°50'04"E	30.92ft
W21	S71°33'14"E	172.20ft
W22	S70°22'43"E	105.86ft
W23	S14°03'32"W	93.92ft
W24	S31°10'01"W	59.98ft
W25	S62°40'02"E	47.32ft
W26	S88°13'16"E	43.17ft
W27	S12°49'19"E	71.52ft
W28	S48°09'15"E	99.23ft
W29	S77°12'29"E	68.32ft
W30	S38°07'06"E	141.83ft
W31	S06°20'20"E	111.20ft
W32	S70°17'45"E	50.80ft
W33	S18°08'52"E	29.42ft
W34	S26°03'11"W	127.23ft
W35	S79°41'42"W	68.76ft
W36	S35°53'15"W	74.76ft
W37	N85°36'13"W	52.71ft
W38	S03°05'45"W	56.75ft
W39	S49°29'41"W	24.31ft
W40	N65°47'14"W	64.63ft
W41	S37°31'54"W	104.20ft
W42	N83°38'03"W	194.63ft
W43	S55°12'40"W	114.86ft
W44	S17°22'09"W	107.22ft
W45	S55°27'53"W	38.63ft
W46	S06°55'27"W	69.37ft
W47	S57°07'51"E	163.86ft
W48	S44°57'48"E	95.40ft
W49	S80°44'11"E	116.41ft
W50	S25°17'18"E	54.31ft
W51	S67°48'37"E	70.60ft
W52	N59°44'15"E	61.86ft
W53	N81°03'32"E	103.51ft
W54	S70°51'42"E	57.72ft
W55	N69°20'11"E	67.95ft
W56	N67°32'24"E	68.72ft
W57	S71°55'37"E	56.72ft
W58	N68°18'30"E	161.57ft
W59	N46°09'31"E	79.71ft
W60	N31°32'24"E	121.93ft
W61	N33°56'31"E	143.06ft

SCALE 1"=300'
0 300 600

LEGEND
EIP = EXISTING IRON PIPE
ERRI = EXISTING RAILROAD IRON
SIP = SET IRON PIPE
EIA = EXISTING IRON AXLE
NTS = NOT TO SCALE

THIS CERTIFIES THAT THIS COPY OF THIS PLAT IDENTIFIES AS WETLANDS ALL AREAS OF WETLANDS REGULATED PURSUANT TO SECTION 404 OF THE CLEAN WATER ACT AS DETERMINED BY THE UNDERSIGNED ON THIS DATE UNLESS THERE IS A CHANGE IN THE LAW OR PUBLISHED REGULATIONS. THIS DETERMINATION OF SECTION 404 JURISDICTION MAY BE RELIED UPON FOR A PERIOD NOT TO EXCEED FIVE YEARS FROM THIS DATE. THIS DETERMINATION WAS MADE UTILIZING THE 1987 CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL.

NAME: Jack R Fulbert
TITLE: Regulatory Specialist
DATE: August 4, 2008

* Boxed project area only

CERTIFICATION

I, JAMES A. BURGESS II, HEREBY CERTIFY THAT THIS SURVEY IS OF ANOTHER CATAGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT ORDERED SURVEY, OR OTHER EXCEPTION TO THE DEFINITION OF A SUBDIVISION.

SIGNED James A. Burgess II L-3960
JAMES A. BURGESS II PLS
LICENSE# L-3960

CERTIFICATION

I, James A. Burgess, II CERTIFY THAT UNDER MY DIRECTION AND SUPERVISION, THIS MAP WAS DRAWN FROM AN ACTUAL FIELD SURVEY MADE BY ME THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS 1: 10000 THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM DEED INFORMATION. WITNESS MY HAND AND SEAL THIS 24TH DAY OF JUNE 2008

SIGNED James A. Burgess II L-3960
REGISTRATION NO. L-3960

NORTH CAROLINA PROFESSIONAL SEAL L-3960 LAND SURVEYOR JAMES A. BURGESS II

REVISIONS

09-14-2003: 404 WETLAND BOUNDARY
06-21-2008: 404 WETLAND RE-EVALUATION AREA

ACRES

AREA IN 404 WETLANDS POCKET "A TO B"= 5.66
AREA IN 404 WETLANDS POCKET "E TO F"= 7.66
TOTAL AREA 404 WETLANDS= 13.32
TOTAL AREA UPLANDS = 76.26
TOTAL AREA PARCEL = 89.58

ALL AREAS COMPUTED BY COORDINATE METHOD

SHEET 1 OF 2

PROJECT #03-053/08-011R1

WETLANDS SURVEY
FOR
EJE Recycling, Inc.

REFERENCE: DEED BOOK 922 PAGE 161
DEED BOOK P39 PAGE 563
DATES OF SURVEY: 10/1-12/20/2000
06/13/2008
PACTOLUS TOWNSHIP PITT COUNTY NORTH CAROLINA

OWNER: EJE Recycling, Inc.
ADDRESS: 802 Recycling Lane
Greenville, NC 27834
PHONE: 252-752-8274

BURGESS LAND SURVEYING P.A.
PROFESSIONAL LAND SURVEYORS
123 W. Third St., PO Box 881
GREENVILLE, N.C. 27858
(252) 758-4900
e-mail: jburgesssurveys@coastalnet.com

SURVEYED: JB	APPROVED: JABII
DRAWN: JABII	DATE: 01-16-01
CHECKED: JABII	SCALE: 1": 300'

LEGEND
EIP = EXISTING IRON PIPE
ERRI = EXISTING RAILROAD IRON
SIP = SET IRON PIPE
EIA = EXISTING IRON AXLE
NTS = NOT TO SCALE

SHEET 2 OF 2

PROJECT #08-011/03-053

WETLANDS SURVEY
FOR
EJE Recycling, Inc.

REFERENCE: DEED BOOK 922 PAGE 161
DEED BOOK P39 PAGE 563
DATES OF SURVEY: (06-14-08) 10/1-12/20/2000
PACTOLUS TOWNSHIP PITT COUNTY NORTH CAROLINA

OWNER: EJE Recycling, Inc.
ADDRESS: 802 Recycling Lane
Greenville, NC 27834
PHONE: 252-752-8274

BURGESS LAND SURVEYING P.A.
PROFESSIONAL LAND SURVEYORS
3931 NC HWY 30 (POB 172)
STOKES, N.C. 27884
(252) 758-4900
e-mail: BURGESSSURVEYS@EMBARQMAIL.COM

SURVEYED: JB	APPROVED: JABII
DRAWN: JABII	DATE: 01-16-01
CHECKED: JABII	SCALE: 1": 300'

eje/lewis tract/EJLEWBOUNDREVwetmfr.pro

5.5.4 Required Soil Volume Calculations

A soil volume analysis performed in part using AutoCAD Digital Terrain Model (DTM) methods is presented in Appendix 2. The following summary is based on an estimated footprint size of approximately 25 acres – the actual combined area of Phase 1 and Phase 2A is 23 acres. This analysis does not represent an actual earthwork balance. The intent of this calculation is to show the required soil quantities (in approximate terms) – the use of overstated quantities is conservative. Ample soil resources are on-hand in the adjacent soil borrow pit.

Total Airspace (includes 3' final cover thickness)	1,046,156 cy
Final Cover Required (25.27 ac. x 43,560 x 3' /27 x 1.1 x 1.15)	96,700 cy*
Net Airspace (total minus final cover)	949,456 cy
Intermediate Cover (assume 30% soil)	284,837 cy**
Base Fill Volume (fill depth varies up to 4 feet)	84,285 cy
Required Soil Balance (from adjacent borrow pit)	**465,822 cy**

*Use a slope factor of 1.1 (increases volume determined from planimetric area) and a 15 percent shrinkage factor from borrow site to field placement (compaction)

**Available cover soils are sand, expect relatively high soil loss into voids

1.0 BACKGROUND INFORMATION

1.1 Development History

C&D Landfill, Inc. Phase 1 encompasses a 15-acre footprint within a 33-acre facility boundary. The facility is owned and operated by C&D Landfill, Inc., in conjunction with the adjacent EJE Recycling, Inc., both of which family owned business entities that operate from the one location. The C&D Landfill serves portions of multiple counties defined in the franchise agreement. Phase 1 commenced operations in 2001, and a permitted expansion (Phase 1B) was completed in 2002. When completed, Phase 1 will contain an estimated 842,000 cubic yards (421,000 tons) of inert debris. The facility has served as a disaster debris disposal site for the region.

Mixed agricultural, commercial, light industrial and residential properties exist within the community. No significant ground water users or potential sources of contaminants are located in the immediate vicinity, but certain inorganic constituents have been noted at somewhat elevated in the natural background geochemistry. Public water is available in the vicinity of the site, but no public water supply wells or surface water intakes have been identified near the site. The site suitability studies for Phases 1 and 2 identified no conditions that would limit the ongoing use of the site as a C&D disposal facility.

1.2 Existing Facilities

EJE Recycling operates a material recovery facility and a MSW transfer station north of the CDLF units. An office (doubles as a scale house) and equipment maintenance shop are located near the recycling yard. White goods are stored on a paved pad located between the Transfer Station and the CDLF Phase 1 – these materials are sold for scrap metal and removed periodically by EJE. Tires are generally not accepted at the facility; occasional tires from on-site equipment are disposed off-site, like any other consumer's. The Facility Plan map (**Drawing S3**) identifies the relevant waste management facilities.

1.3 Facility Plan Amendment

Phase 2 will encompass a 23-acre new footprint – separate from Phase 1. The expansion involves the addition of 90 acres to the facility boundary, bringing the facility boundary area to 123 acres. Phase 2 will contain an estimated 1,046,156 cubic yards (523,078 tons) of debris, bringing the total disposed volume to 1,888,156 cubic yards (944,078 tons). The estimated life of Phase 2 is 15 years. This document provides detailed design information pertaining to a Permit to Construct application for the Phase 2A expansion. The following describes the facility before and after the planned expansion.

EXISTING CONDITIONS	**C&D Landfill, Inc. (Permit #74-07)**		
Solid Waste Units Present	MSW Transfer Station, Recycling Facility, CDLF		
Other Activities/Infrastructure	Scales/Office, Alternative Cover Demonstration		
CDLF Unit Footprint Acreage	15 acres		
CDLF Phases/Sub-Phases [1]	**1A**	**1B**	
New Ground Footprint Acreage [1]	8 ac	7 ac	
Final Elevations (Entire Unit) [2]	EL. 124 [5]		
Maximum Waste Thickness [2]	104 feet [5]		
Permitted Side Slope Ratios	3H:1V		
Acreage of Closed Slopes [3]	0		
Facility Boundary Acreage	34.21 acres		
Total Permitted Capacity [2]	842,000 cy		
Permitted Capacity Remaining	0		

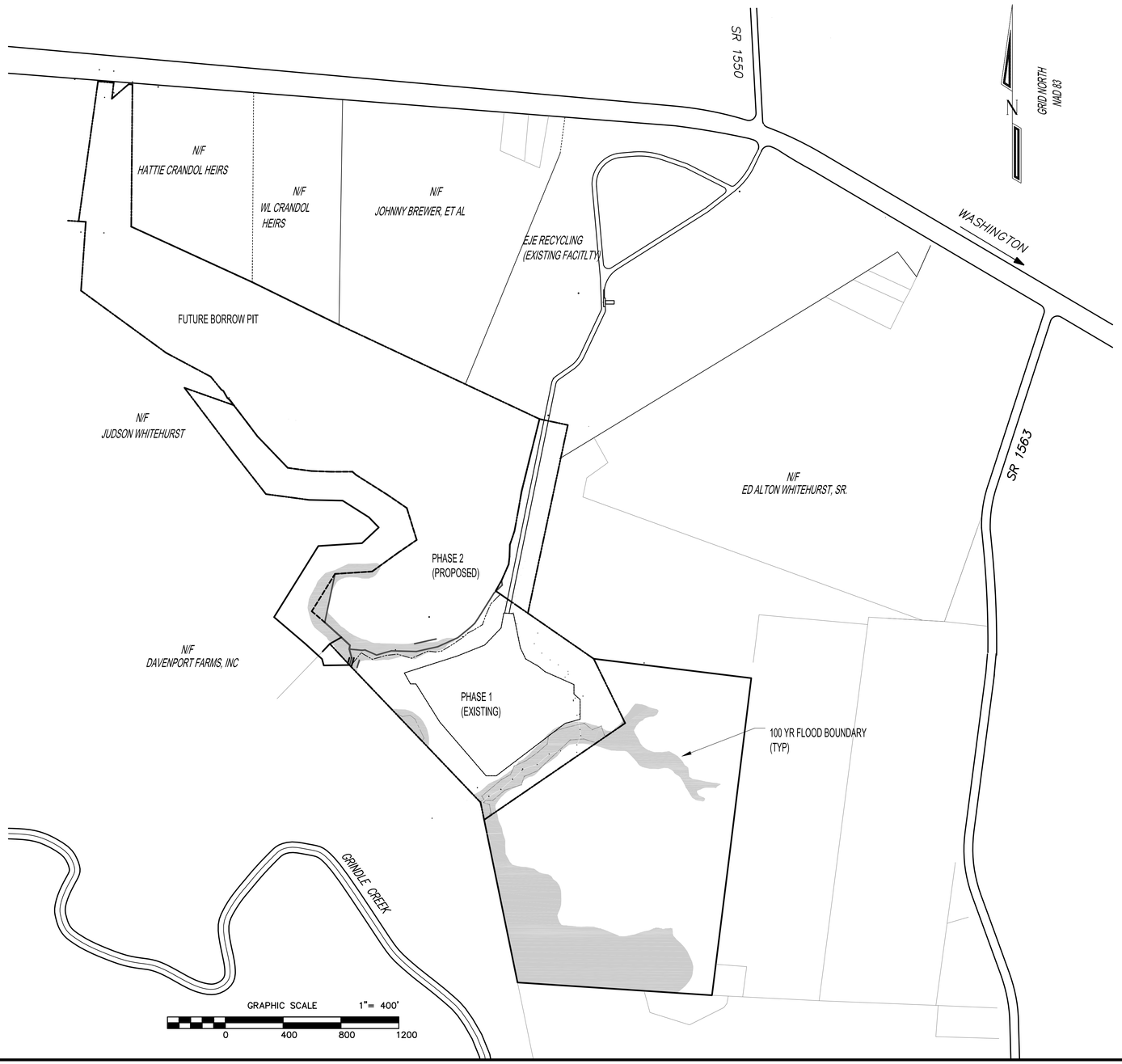
PROPOSED CONDITIONS	**Phase 2 is a separate unit from Phase 1**		
Solid Waste Units Present [4]	Unchanged		
Other Activities/Infrastructure [4]	Unchanged		
New CDLF Unit Footprint Acreage [4]	23 acres		
New CDLF Phases/Sub-Phases [1]	**2A**	**2B**	**2C**
New Ground Footprint Acreage [1]	10 ac	13 ac	9 ac [5]
Interim Capacities (Sub-Phases) [2]	313,044 cy	386,045 cy	347,067 cy
Interim Elevations (Sub-Phases)	EL. 50	EL. 50	EL. 106
New CDLF Unit Capacity [2]	1,046,156 cy		
Final Elevations (Entire Unit) [2]	EL. 106		
Maximum Waste Thickness [2]	90 feet		
Permitted Side Slope Ratios [4]	3H:1V		
Acreage of Closed Slopes [3]	0		
Facility Boundary Acreage [4]	160.14 acres		
Total CDLF Footprint Acreage [4]	38 acres		
Total Permitted Capacity [4]	1,888,156 cy		
Permitted Capacity Remaining [4]	1,046,156 cy		

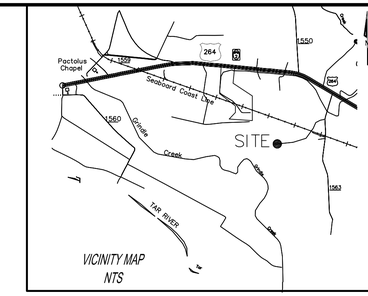
1 Corresponding to 5-year Operating Capacity
2 Includes Final Cap System and Operational Cover
3 Per Applicable Rules at Time of Closure
4 Subject to Approval of this Application
5 Vertical Expansion – not actual ground disturbance

C&D Landfill, Inc.

C&D Landfill - Phase 2

Pitt County, North Carolina





OWNER - DEVELOPER

C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

VOICE (252) 752-8274
FAX (252) 752 9016

ENGINEER:

JOHN A.K. TUCKER, PE
CONSULTING ENGINEER
PO BOX 297
FUQUAY VARINA, NC 27526

VOICE (919) 567-0483
FAX (919) 567-3611

GENERAL NOTES:

1. Boundary, topographic and wetland information take from maps prepared by James A. Burgess, PLS, P.O. Box 881, Greenville, NC 27834, 252-758-4900

2. All work shall be in accordance with applicable Federal, State and Local regulations.

3. Contractor shall at all times maintain adequate safety measures , activities, and barricades, for the protection of all persons on or about the site.
ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH DIVISION OF THE NC DEPARTMENT OF LABOR.

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LEGEND

EXIST GROUND — 18
SEASONAL HIGH GROUND WATER — 18
PROPSED GRADE — 18
DIVERSION BERM (DIRECTION OF FLOW) — <<<
SILT FENCE
WETLANDS
FLOOD ZONE

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 15895 JOHN A. K. TUCKER

February 18, 2008

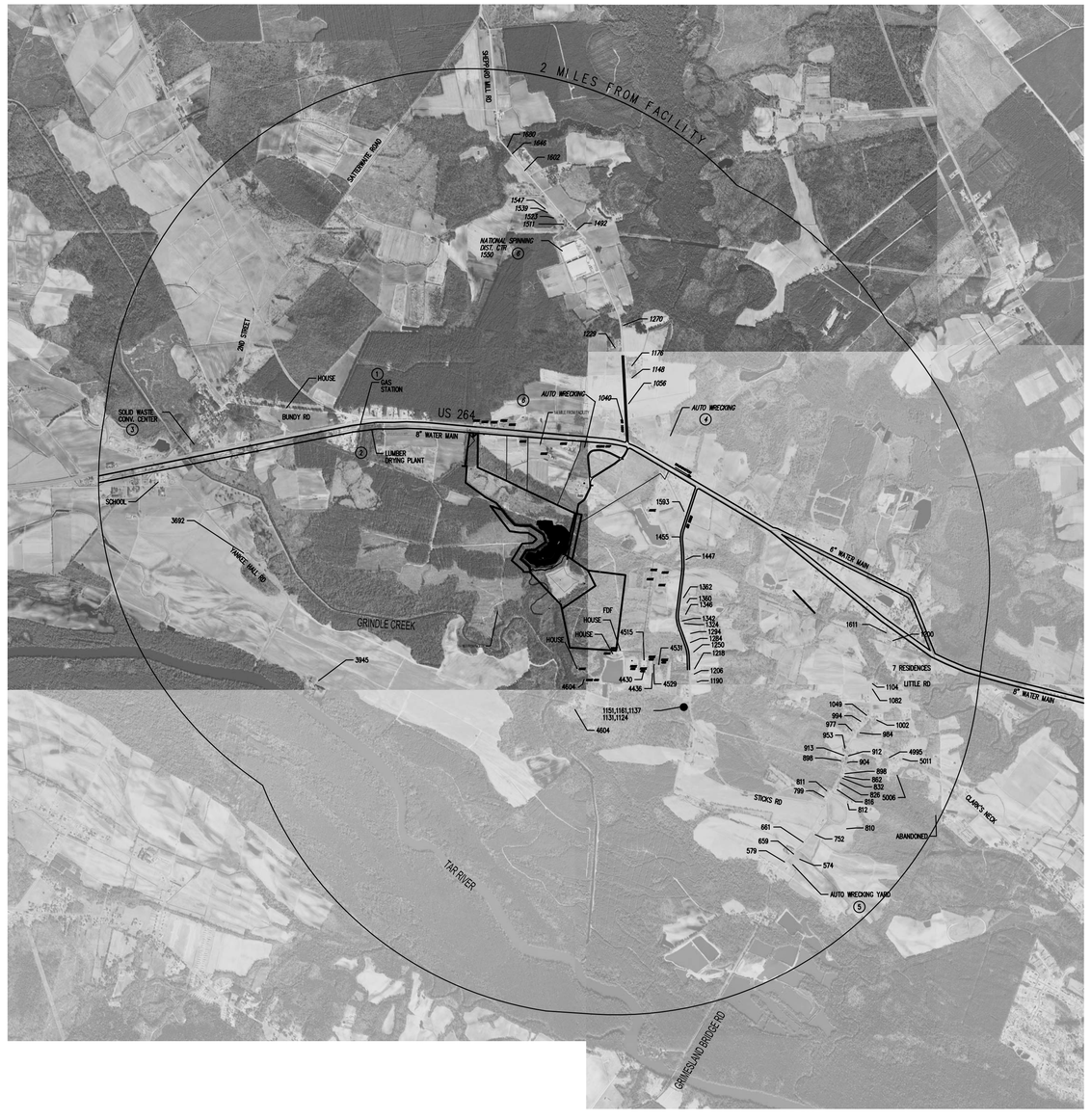
John A. K. Tucker, P.E.
Consulting Engineer
P.O. Box 297 Fuquay-Varina, North Carolina 27526
(919) 567-0483 fax (919) 567-3611
Email: johnatk@johntuckerpe.com

C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
COVERSHEET

REVISIONS

COVER



GRID NORTH
NAD 83

POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION

1. GAS STATION – US 264 & NC 30
2. LUMBER DRYING YARD
3. SOLID WASTE CONVENIENCE CENTER – SECOND ST. (PACTOLUS)
4. AUTO WRECKING YARD – US 264
5. AUTO WRECKING YARD – GRIMESLAND BRIDGE RD
6. WELDING SHOP – US 264

POTENTIAL SIGNIFICANT GROUNDWATER USER

6. NATIONAL SPINNING
(DISTRIBUTION CENTER)
SHEPPARD MILL RD
(FACILITY CLOSED)

UTILITY DATA FROM STOKES REGIONAL WATER COMPANY SERVICE MAP

WATER WELL SURVEY CONDUCTED 12/12/2000 – DAVID GARRETT, P.G., P.E.
UPDATED 05/21/2003 – JOHN A.K. TUCKER, P.E.

MAP TAKEN FROM PORTIONS OF USGS 7.5 MIN QUADRANGLE MAPS:

LEGGETS CROSSROADS

GRIMESLAND

LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPSED GRADE	18
DIVERSION BERM (DIRECTION OF FLOW)	<<<
SILT FENCE	
WETLANDS	
FLOOD ZONE	

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GRAPHIC SCALE 1"= 2000'

0 2000 4000 6000

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER JOHN A. K. TUCKER

February 18, 2008

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C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
REGIONAL CHARACTERIZATION MAP

REVISIONS

S 1

GRID NORTH
NAD 83

NOTE:

IMAGE TAKEN FROM AERIAL PHOTOGRAPH OBTAINED FROM
THE NORTH CAROLINA FLOOD MAPPING PROGRAM, CIRCA 2000

LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPSED GRADE	18
DIVERSION BERM (DIRECTION OF FLOW)	<<<
SILT FENCE	
WETLANDS	
FLOOD ZONE	

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GRAPHIC SCALE 1"= 500'

0 500 1000 1500

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL JOHN A. K. TUCKER

February 18, 2008

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C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
LOCAL AREA MAP

REVISIONS

S 2

N

GRID NORTH
NAD 83

NOTE:

IMAGE TAKEN FROM AERIAL PHOTOGRAPH OBTAINED FROM THE NORTH CAROLINA FLOOD MAPPING PROGRAM, CIRCA 2000

FIELD VERIFIED BY DAVID GARRETT, P.G., P.E. - 12/12/2000
UPDATED BY JOHN A.K. TUCKER, P.E. - 05/15/2003

LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPSED GRADE	18
DIVERSION BERM (DIRECTION OF FLOW)	<<<
SILT FENCE	
WETLANDS	
FLOOD ZONE	

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NORTH CAROLINA PROFESSIONAL ENGINEER JOHN A. K. TUCKER

February 18, 2008

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Email: johnak@johntuckerpe.com

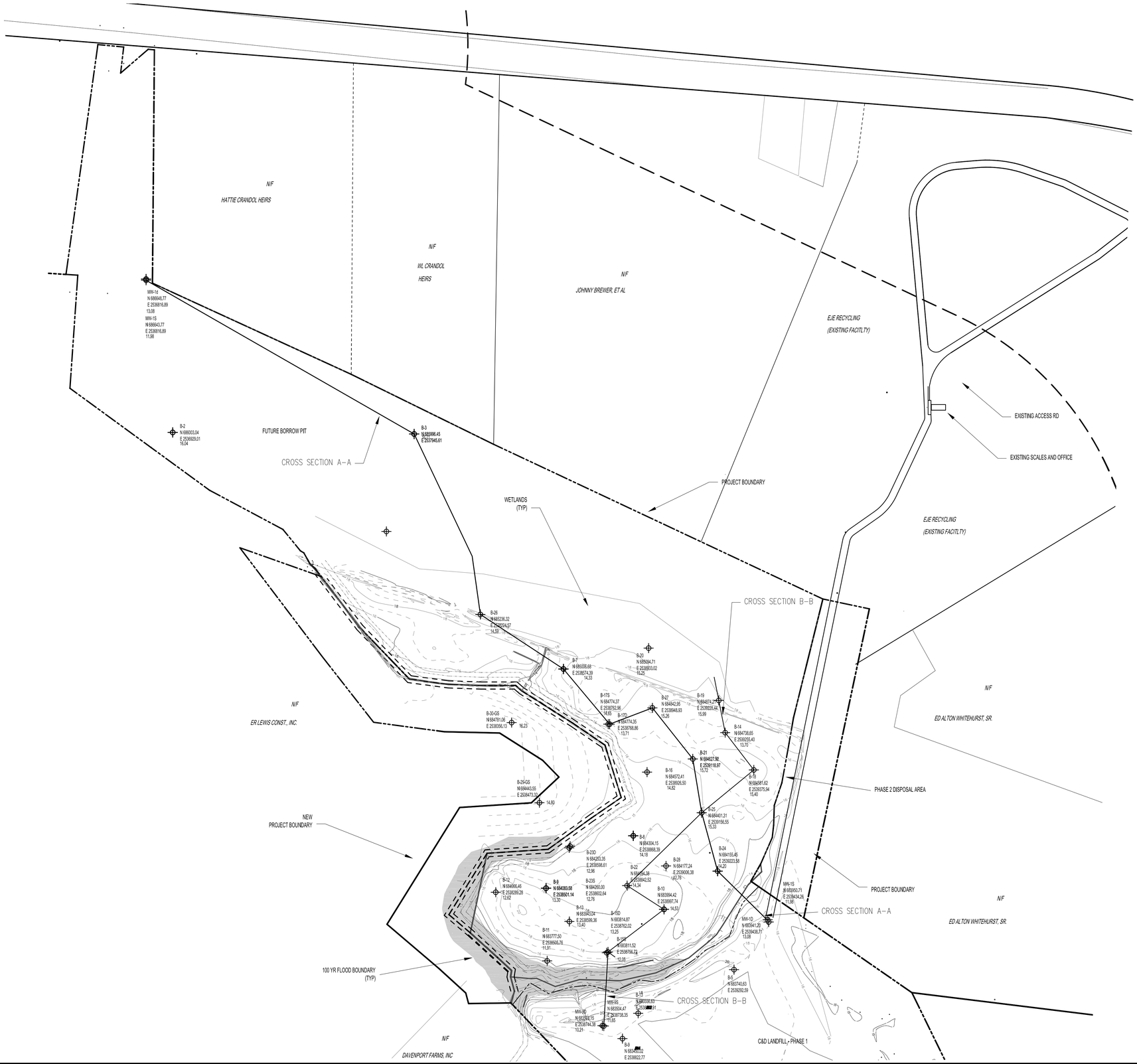
C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
LOCAL AREA PHOTO & FACILITY PLAN

2.	REVISED PER DSW COMMENTS	02-18-09
1.	REVISED PER DSW COMMENTS	10-28-08

REVISIONS

S 3



David Garrett, P.G., P.E.
Engineering and Geology
1408 Rock Drive, Raleigh, North Carolina 27610
Telephone/Fax (919) 231-1818

GRID NORTH
NAD 83

LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPSED GRADE	18
DIVERSION BERM (DIRECTION OF FLOW)	<<<
SILT FENCE	
WETLANDS	
FLOOD ZONE	

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GRAPHIC SCALE 1"= 200'
0 200 400 600

February 18, 2008

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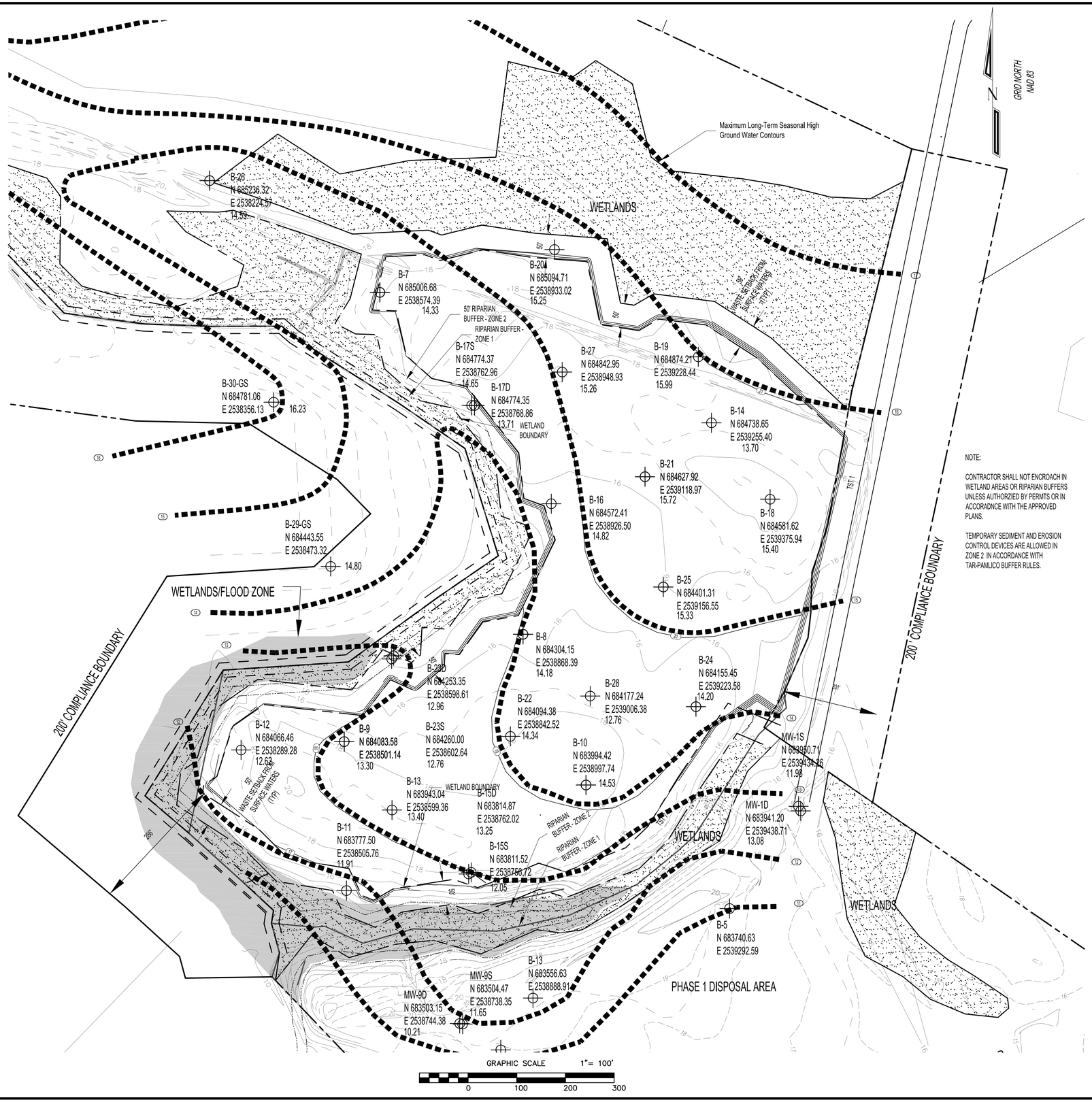
C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
SITE BOUNDARY & TEST BORINGS

3.	BOUNDARY UPDATED	03-24-09
2	REVISED PER DSW COMMENTS	10-28-08
1	Cross Section Line added	3-11-08

REVISIONS

S 4



NOTE:

CONTRACTOR SHALL NOT ENCROACH IN WETLAND AREAS OR RIPARIAN BUFFERS UNLESS AUTHORZIED BY PERMTS OR IN ACCORADNCE WITH THE APPROVED PLANS.

TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE ALLOWED IN ZONE 2 IN ACCORDANCE WITH TAR-PAMLICO BUFFER RULES.

LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPSED GRADE	18
DIVERSION BERM (DIRECTION OF FLOW)	<<<
SILT FENCE	
WETLANDS	
FLOOD ZONE	

February 18, 2008

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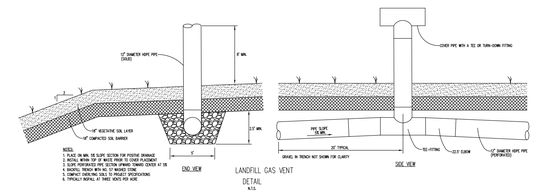
C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

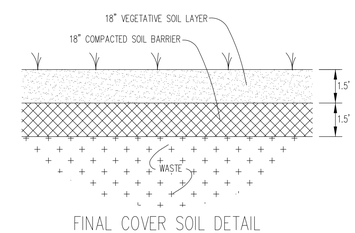
C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
BASE GRADE CONTOURS

3.	BOUNDARY UPDATED	03-24-09
2.	REVISED PER DSW COMMENTS	02-16-08
1.	REVISED PER DSW COMMENTS	10-26-08

REVISIONS

E 1





FINAL COVER SOIL DETAIL

LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPSED GRADE	18
DIVERSION BERM	<<<
SILT FENCE	
WETLANDS	
FLOOD ZONE	
STORM WATER FLOW	

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GRAPHIC SCALE 1"= 100'

0 100 200 300

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL JOHN A. K. TUCKER

February 18, 2008

John A. K. Tucker, P.E.
Consulting Engineer
P.O. Box 297 Fuquay-Varina, North Carolina 27526
(919) 567-0483 fax (919) 567-3611
Email: johnatk@johntuckerpe.com

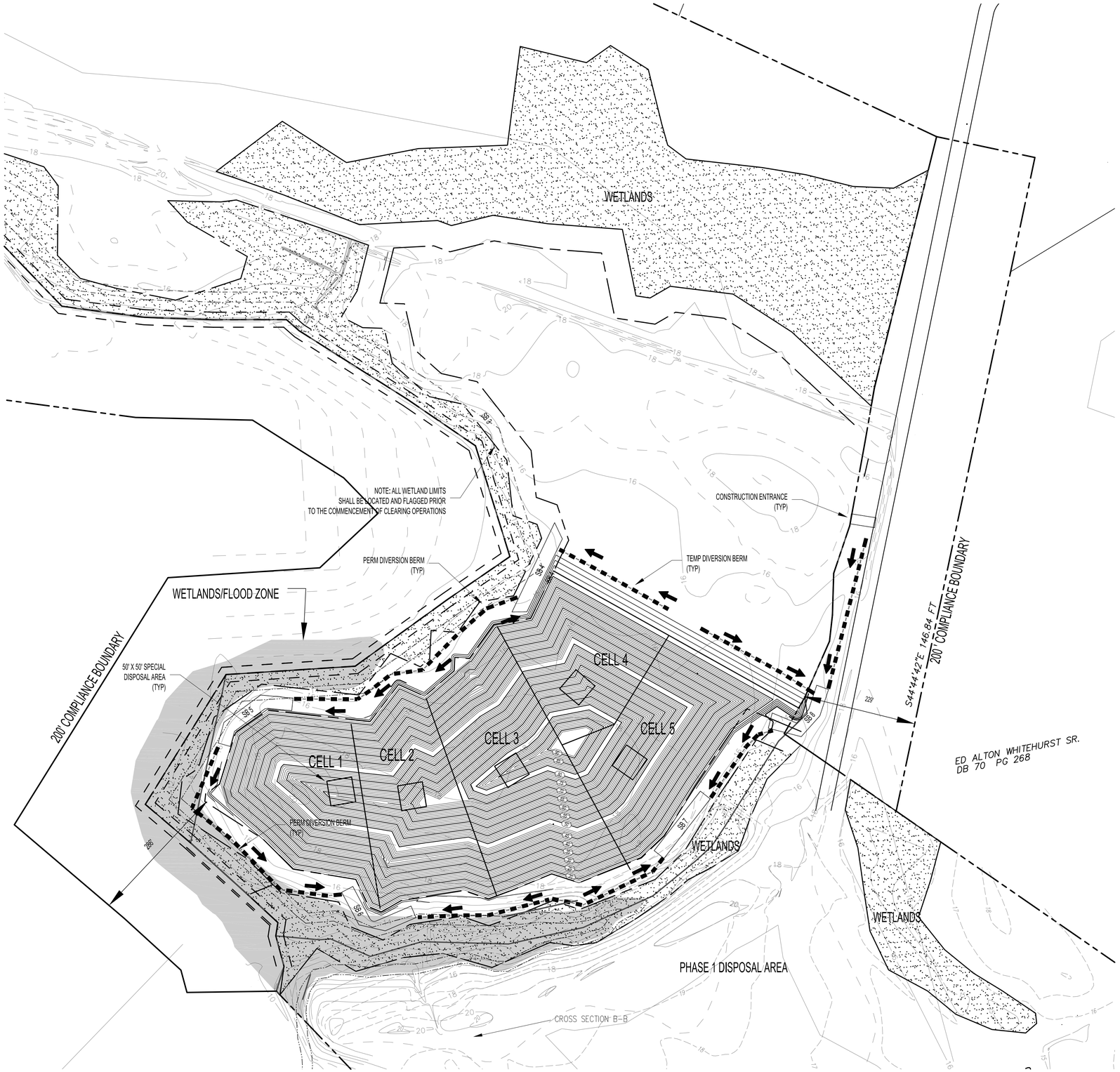
C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
FINAL COVER CONTOURS

4.	STORM WATER FLOW DIRECTION ADDED	04-30-08
3.	BOUNDARY UPDATED	03-24-08
2.	REVISED PER DSWI COMMENTS	02-19-08
1.	REVISED PER DSWI COMMENTS	10-26-08

REVISIONS

E 2-A



GRID NORTH
NAD 83

PHASE 2A PROGRESSION

YEAR 1 CELL 1
YEAR 2 CELL 2
YEAR 3 CELL 3
YEAR 4 CELL 4
YEAR 5 CELL 5

LEGEND

EXIST GROUND	18
SEASONAL HIGH GROUND WATER	18
PROPSED GRADE	18
DIVERSION BERM	
SILT FENCE	
WETLANDS	
FLOOD ZONE	
STORM WATER FLOW	

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   ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH DIVISION OF THE NC DEPARTMENT OF LABOR.

   Contractor shall be responsible for the design of adequate shoring and bracing in all trenches and excavations that are a part of the construction operations of this project. Contractor shall be responsible for installation and maintenance of adequate shoring and bracing, and the protection of all persons and property on or about the site.

GRAPHIC SCALE 1"= 100'

0 100 200 300

February 18, 2008

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Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
PHASE 2A -GRADING PLAN

4.	STORM WATER FLOW DIRECTION ADDED	04-30-09
3.	BOUNDARY UPDATED	03-04-09
2.	REVISED PER DSW COMMENTS	02-18-09
1.	REVISED PER DSW COMMENTS	10-29-08

REVISIONS

E 2-B

PHASE 2B PROGRESSION

YEAR 6 CELL 6
YEAR 7 CELL 7
YEAR 8 CELL 8
YEAR 9 CELL 9
YEAR 10 CELL 10

LEGEND

EXIST GROUND — 18
SEASONAL HIGH GROUND WATER — 18
PROPSED GRADE — 18
DIVERSION BERM
SILT FENCE
WETLANDS
FLOOD ZONE
STORM WATER FLOW

GENERAL NOTES:

1. Boundary, topographic and wetland information take from maps prepared by James A. Burgess, PLS, P.O. Box 881, Greenville, NC 27834, 252-758-4900

2. All work shall be in accordance with applicable Federal, State and Local regulations.

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0 100 200 300

February 18, 2008

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C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
04-30-09 **PHASE 2A -GRADING PLAN**

4.	STORM WATER FLOW DIRECTION ADDED	04-30-09
3.	BOUNDARY UPDATED	03-24-09
2.	REVISED PER DSW COMMENTS	02-16-09
1.	REVISED PER DSW COMMENTS/STORM WATER FLOW DIRECTION ADDED	10-30-08

REVISIONS

E 2-C

PHASE 2B PROGRESSION

YEAR 6 CELL 6
YEAR 7 CELL 7
YEAR 8 CELL 8
YEAR 9 CELL 9
YEAR 10 CELL 10

LEGEND

EXIST GROUND — 18
SEASONAL HIGH GROUND WATER — 18
PROPSED GRADE — 18
DIVERSION BERM
SILT FENCE
WETLANDS
FLOOD ZONE
STORM WATER FLOW

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February 18, 2008

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PERMIT TO CONSTRUCT
04-30-09 **PHASE 2A -GRADING PLAN**

4.	STORM WATER FLOW DIRECTION ADDED	04-30-09
3.	BOUNDARY UPDATED	03-24-09
2.	REVISED PER DSW COMMENTS	02-16-09
1.	REVISED PER DSW COMMENTS/STORM WATER FLOW DIRECTION ADDED	10-30-08

REVISIONS

E 2-C

David Garrett, P.G., P.E.
Engineering and Geology
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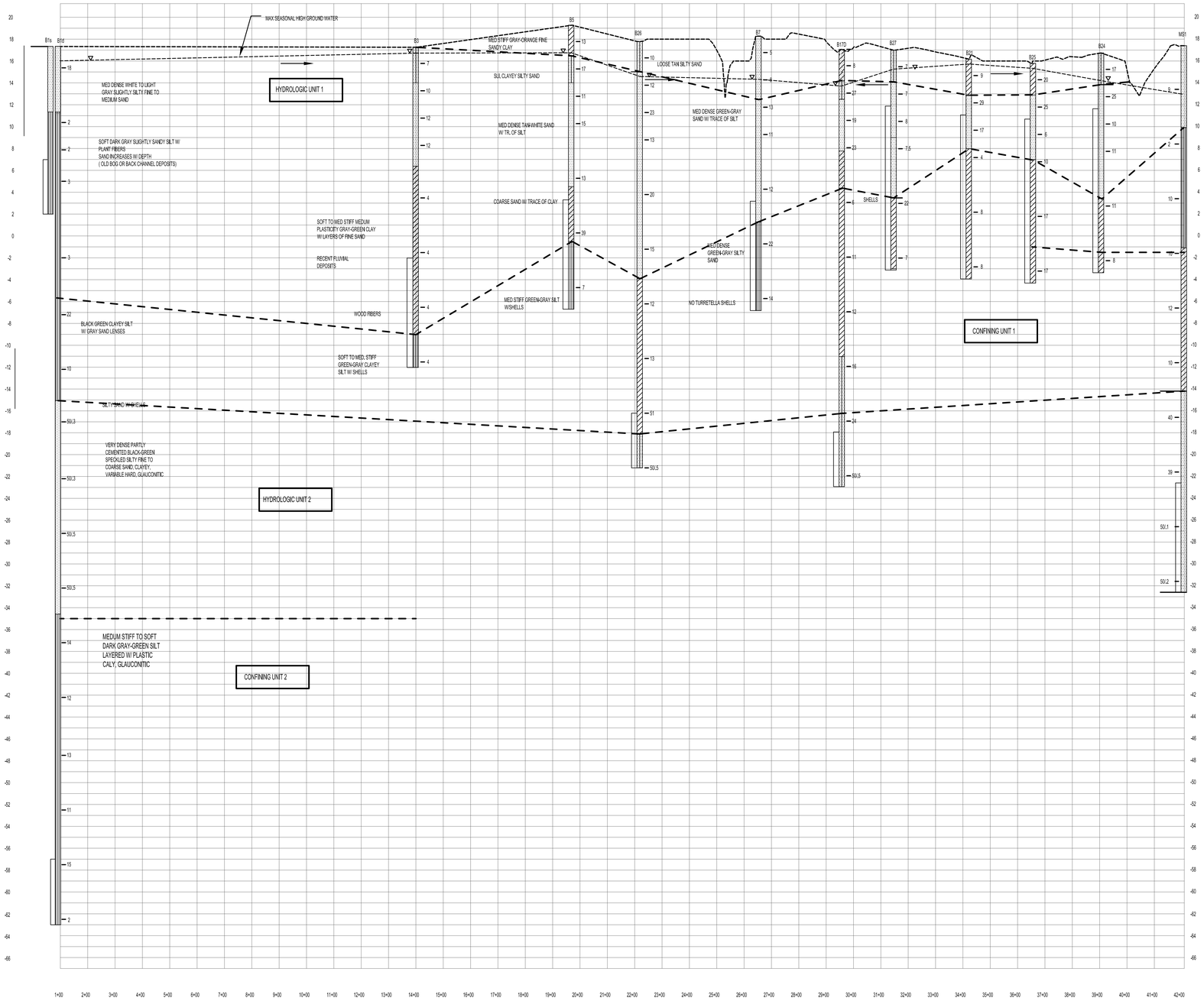
Telephone/Fax (919) 231-1818



SCALE: 1" = 200 H
1" = 5 V

TYPICALLY OBSERVED FEB-APRIL 2002 BORINGS 1-7
TYPICALLY OBSERVED FEB-APRIL 2003 BORINGS 8-28

February 18, 2008

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C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
HYDROGEOLOGICAL CROSS SECTION

REVISIONS

X 1

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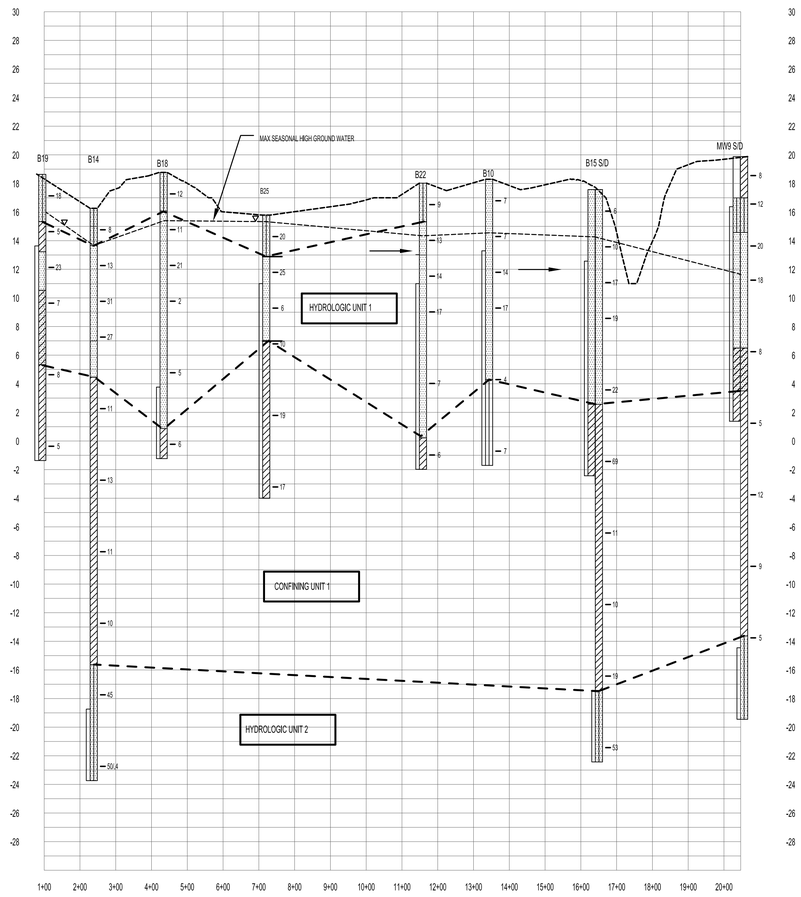

SLIGHTLY SILTY TO CLEAN SAND
SILTY SAND, MAY BE CLAYEY
CLAYEY SAND
SILT, TYPICALLY CLAYEY
CLAY, TYPICALLY PLASTIC, STICKY
12 STANDARD PENETRATION RESISTANCE VALUE (BLOWS PER FOOT)
MAXIMUM SEASONAL HIGH GROUNDWATER LEVEL
GROUNDWATER FLOW

TYPICALLY OBSERVED FEB-APRIL 2002 BORINGS 1-7
TYPICALLY OBSERVED FEB-APRIL 2003 BORINGS 8-28

SCALE: 1" = 200 H
1" = 5 V

February 18, 2008

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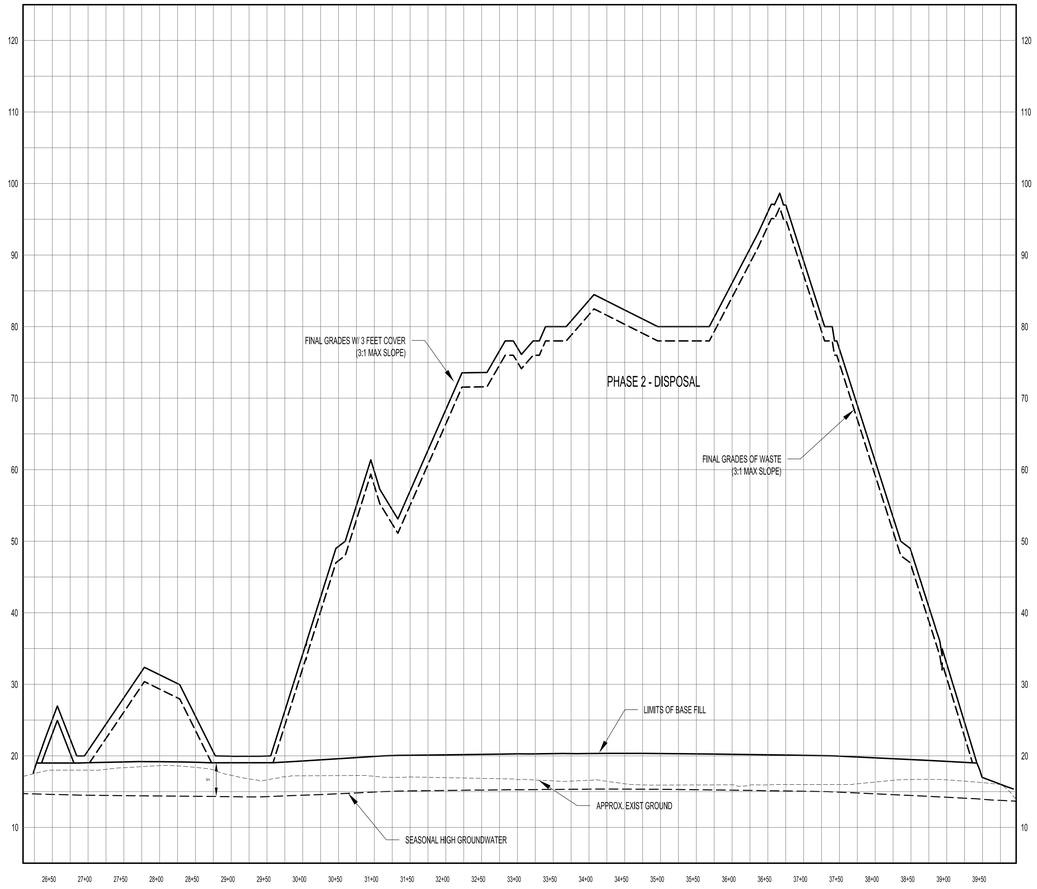
C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
HYDROGEOLOGICAL CROSS SECTION

REVISIONS

X 2



PROFILE - SECTION A-A

SCALE 1" = 100' H
1" = 10' V

GRAPHIC SCALE 1"= 100'

0 100 200 300

PRELIMINARY
NOT FOR
CONSTRUCTION

February 18, 2008

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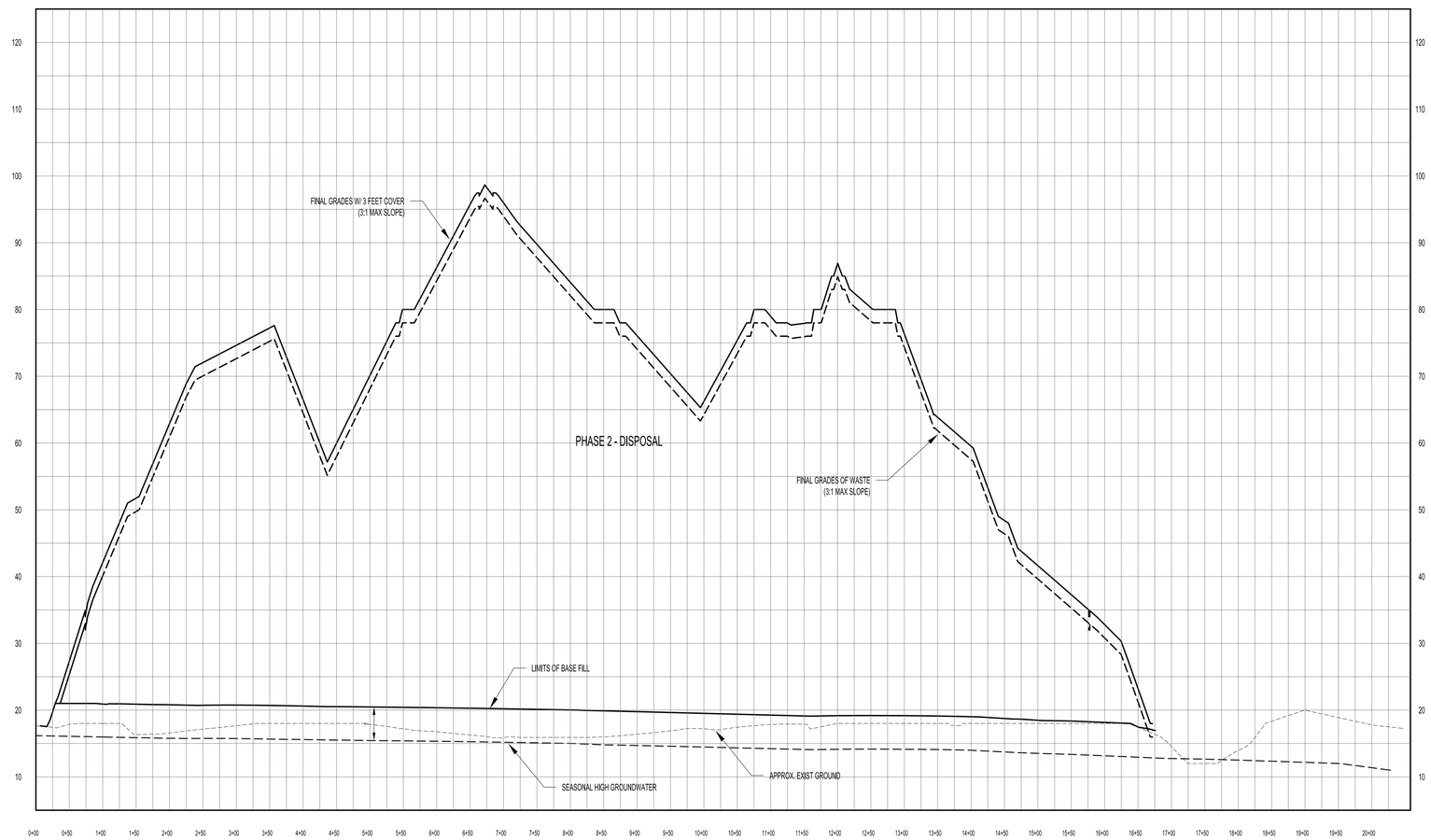
C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
CROSS SECTIONS A-A

REVISIONS

X 3



PROFILE - SECTION B-B

SCALE 1" = 100' H
1" = 10' V

GRAPHIC SCALE 1"= 100'

0 100 200 300

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER JOHN A. K. TUCKER

February 18, 2008

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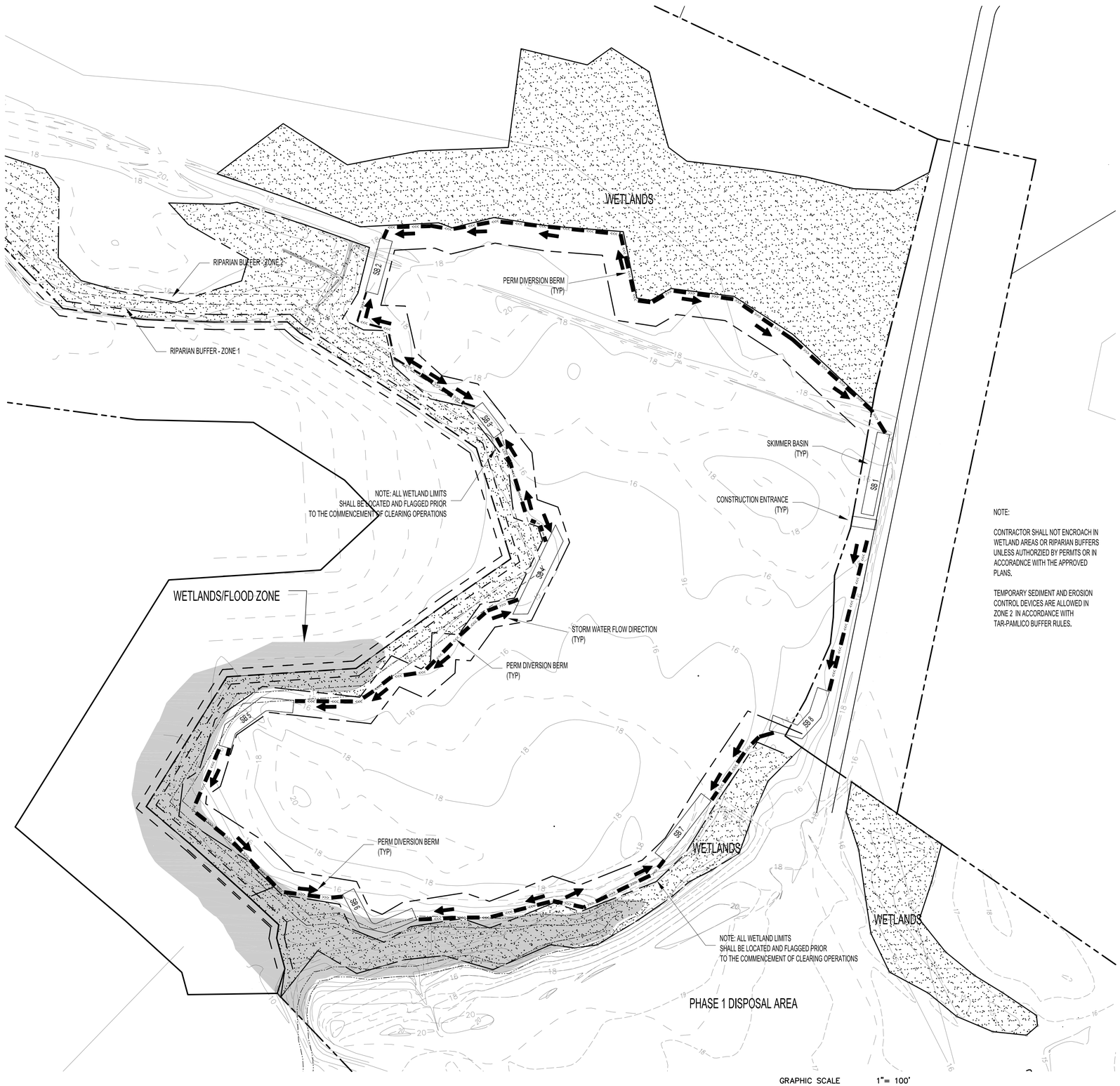
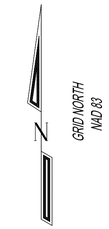
C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
CROSS SECTIONS B-B

REVISIONS

X 4





NOTE:

CONTRACTOR SHALL NOT ENCROACH IN WETLAND AREAS OR RIPARIAN BUFFERS UNLESS AUTHORZIED BY PERMITS OR IN ACCORADNCE WITH THE APPROVED PLANS.

TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ARE ALLOWED IN ZONE 2 IN ACCORDANCE WITH TAR-PAMLICO BUFFER RULES.

PITT COUNTY CONSTRUCTION SEQUENCE

1. Obtain a land-disturbing permit. Schedule a pre-construction conference with the Environmental Engineer
2. Locate and flag all adjoining wetlands and riparian buffers. Contractor assume all reponsibilty for any unauthorized encroachment into these areas.
3. Install gravel construction pad, permanent diversions, silt fence, sediment basins or other measures as shown on the approved plan. Clean only as necessary to install these devices. Seed temporary diversions, berms and basins immediately after construction.
4. Call Pitt County for an onsite inspections by the Environmental Engineer to obtain a Certificate of Compliance.
5. Begin clearing and grubbing. Maintain devices as needed.
6. Begin bringing site to grade.
7. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. Seed and mulch denuded areas within fifteen (15) days of completion of any phase of construction.
8. When construction is complete and all areas are stabilized completely, call Pitt County for an inspection by the Environmental Engineer.
9. If site is approved, remove temporary diversions, silt fence, sediment basins, etc., and seed out or stabilize any resulting bare areas. All remaining permanent erosion control devices, such as velocity dissipators, should now be installed. Sediment basins removed only with approval of Pitt County.
10. When vegetation has established, call Pitt County for a final site inspection by the Environmental Engineer. Obtain a Certificate of Completion.

SEEDING SCHEDULE
(REVISED: 1-1-86)

Shoulders, Side Ditches, Slopes (Max 3:1)

DATE	TYPE	PLANTING RATE
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue	300 lbs/acre
	& Abruzzi Rye	25 lbs/acre
Mar 1 - Apr 15	Tall Fescue	300 lbs/acre
Apr 15 - Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1 - Aug 15	Tall Fescue and	120 lbs/acre
	***Browntop Millet	35 lbs/acre
	***or Sorghum-Sudan Hybrids	30 lbs/acre

Slopes (3:1 to 2:1)

Mar 1 - Jun 1	Sericea Lespedeza (scarified)	50 lbs/acre
	&	
(Mar 1 - Apr 15)	Add Tall Fescue	120 lbs/acre
(Mar 1 - Jun 30)	Or Add Weeping Lovegrass	10 lbs/acre
(Mar 1 - Jun 30)	Or Add Hulled Common Bermudagrass	25 lbs/acre
Jun 1 - Sep 1	***Tall Fescue and	120 lbs/acre
	***Browntop Millet	35 lbs/acre
	***or Sorghum-Sudan Hybrids	30 lbs/acre
Sep 1 - Mar 1	Sericea Lespedeza (unhulled-unscarified)	70 lbs/acre
	and Tall Fescue	120 lbs/acre
(Nov 1 - Mar 1)	Add Abruzzi Rye	25 lbs/acre

Consult Conservation Engineer or Soil Conservation Service for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.
***Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12" in height before mowing, otherwise fescue may be shaded out.

SEEDBED PREPARATION

1.) CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.

2.) RIP THE ENTIRE AREA TO 6 INCHES DEPTH.

3.) REMOVE ALL LOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM. SUPERPHOSPHATE

4.) APPLY AGRICULTURAL LIME, FERTILIZER, AND UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).

5.) CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM INCHES REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 DEEP.

6.) SEED ON A FRESHLY PREPARED SEEDBED AND COVER AFTER SEEDING. SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK.

7.) MULCH WITH STRAW (1-2 TNS PER AC) IMMEDIATELY AFTER SEEDING. ANCHOR MULCH WITH ASPHALT. APPLY ASPHALT AT 10 GAL PER 1000 SQUARE FEET. HEAVIER APPLICATIONS CAUSE STRAW TO "PERCH" OVER RILLS.

8.) INSPECT ALL SEEDED AREAS AND MAKE NECESSARY RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. FOLLOWING STAND SHOULD BE OVER 60%DAMAGED, REESTABLISH ORIGINAL LIME, FERTILIZER AND SEEDING RATES.

9.) CONSULT CONVERSATION INSPECTOR ON MAINTENANCE ESTABLISHED.

TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS
* APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ ACRES (3 TONS/ ACRE IN CLAY SOILS)
FERTILIZER - 1,000 lbs. / ACRE -10-10-10
SUPERPHOSPHATE- 500 lbs> / ACRE -20%ANALYSIS

C&D Landfill Phase 2
Skimmer Basin Design

Basin Number	DA	Peak Q - 10 yr	Top Width	Top Length	Side Slope	Depth	Bottom Width	Bottom Length	Bottom Area	Actual Volume	Actual Area	Trial Weir Lenth
	(ac)	(cfs)	(ft)	(ft)	(z:1)	(ft)	(ft)	(ft)	(sf)	(cf)	(sf)	(ft)
1	3.15	9.3	25	130	2	2.5	15	120	1800	6224	3250	10
2	2.01	5.9	25	110	2	2.5	15	100	1500	5234	2750	6
3	1.36	4	25	110	2	2.5	15	100	1500	5234	2750	6
4	3.34	9.8	25	130	2	2.5	15	120	1800	6224	3250	10
5	2.92	8.6	25	120	2	2.5	15	110	1650	5729	3000	10
6	2.81	8.3	25	110	2	2.5	15	100	1500	5234	2750	10
7	2.92	8.6	25	120	2	2.5	15	110	1650	5729	3000	10
8	2.36	7	25	110	2	2.5	15	100	1500	5234	2750	10

LEGEND

CLEARING LIMITS/PERM. DIVERSION BERM <<<
TAR-PAM BUFFER
SILT FENCE

February 18, 2008

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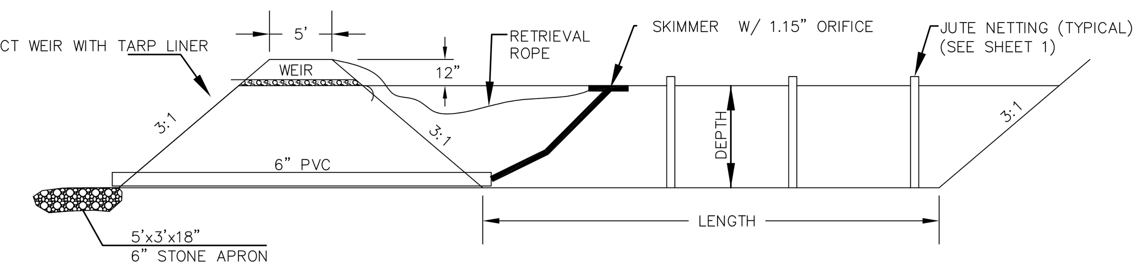
C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
SEDIMENTATION & EROSION CONTROL

1.	REVISED PER DSN COMMENTS	10-30-08

REVISIONS

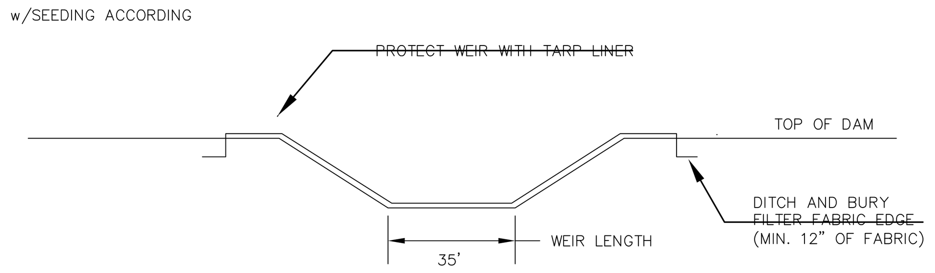
EC 1



WEIR DETAIL

NOTES:

1. USE FOR DRAINAGE AREAS NOT EXCEEDING 5 (FIVE) ACRES.
2. EARTH BERM SHALL BE STABILIZED w/SEEDING ACCORDING TO SPECIFICATIONS.



STANDARD SKIMMER FILTER BASIN

Maintenance

Inspect skimmer sediment basins at least weekly and after each significant (one-half inch or greater) rainfall event and repair immediately. Remove sediment and restore the basin to its original dimensions when sediment accumulates to one-half the height of the first baffle. Pull the skimmer to one side so that the sediment underneath it can be excavated. Excavate the sediment from the entire basin, not just around the skimmer or the first cell. Make sure vegetation growing in the bottom of the basin does not hold down the skimmer.

Repair the baffles if they are damaged. Re-anchor the baffles if water is flowing underneath or around them.

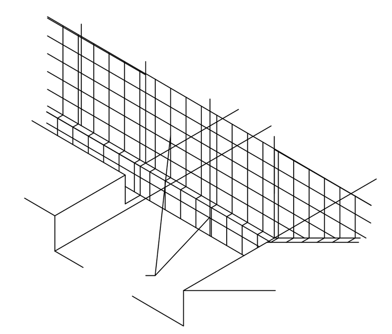
If the skimmer is clogged with trash and there is water in the basin, usually jerking on the rope will make the skimmer bob up and down and dislodge the debris and restore flow. If this does not work, pull the skimmer over to the side of the basin and remove the debris. Also check the orifice inside the skimmer to see if it is clogged; if so remove the debris.

If the skimmer arm or barrel pipe is clogged, the orifice can be removed and the obstruction cleared with a plumber's snake or by flushing with water. Be sure and replace the orifice before repositioning the skimmer.

Check the fabric lined spillway for damage and make any required repairs with fabric that spans the full width of the spillway. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement. Make all necessary repairs immediately. Remove all trash and other debris from the skimmer and pool areas.

Freezing weather can result in ice forming in the basin. Some special precautions should be taken in the winter to prevent the skimmer from plugging with ice.

6.64.8



BAFFLE INSTALLATION – STEP 1

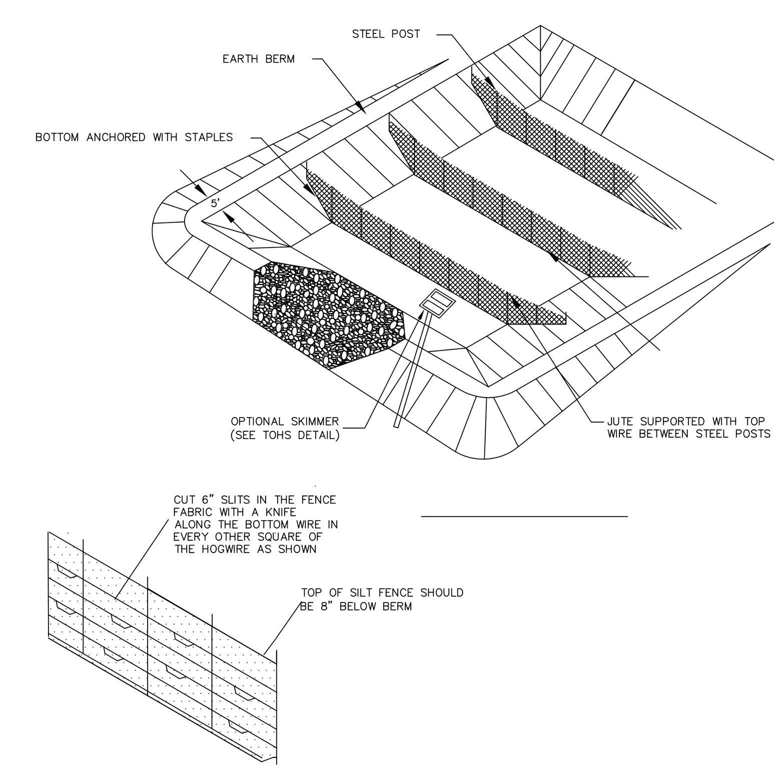
Maintenance

Inspect baffles at least once a week and after each rainfall. Make any required repairs immediately.

Be sure to maintain access to the baffles. Should the fabric of a baffle collapse, tear, decompose, or become ineffective, replace it promptly.

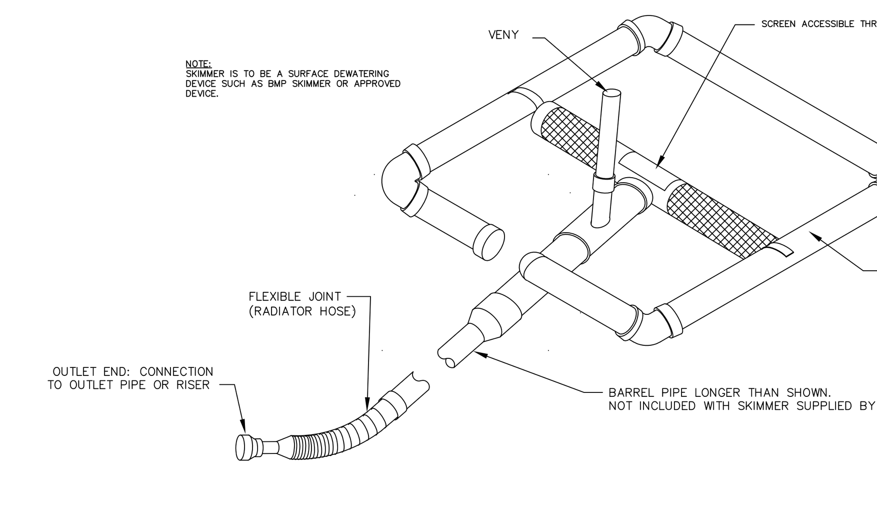
Remove sediment deposits when it reaches half full to provide adequate storage volume for the next rain and to reduce pressure on the baffles. Take care to avoid damaging the baffles during cleanout. Sediment depth should never exceed half the designed storage depth.

After the contributing drainage area has been properly stabilized, remove all baffle materials and unstable sediment deposits, bring the area to grade, and stabilize it.



STANDARD SKIMMER FILTER BASIN

NTS



STANDARD SKIMMER DETAIL

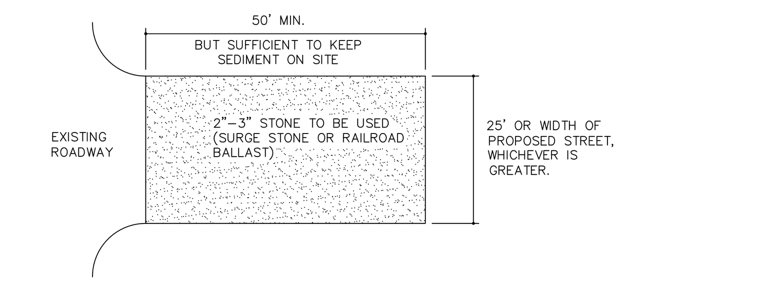
NTS

NOTES:

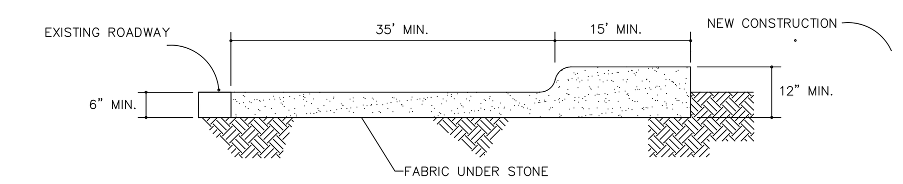
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. IF A PROJECT CONTINUES TO PULL MUD AND DEBRIS ON TO THE PUBLIC ROAD, THE GOVERNING AUTHORITY WILL CLEAN THE AREA AND INVOICE THE FINANCIALLY RESPONSIBLE PERSON AS INDICATED ON THE FINANCIAL RESPONSIBILITY FORM.

Maintenance

Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone. After each rainfall, inspect any structure used to trap sediment and clean it out as necessary. Immediately remove all objectionable materials spilled, washed, or tracked onto public roadways.



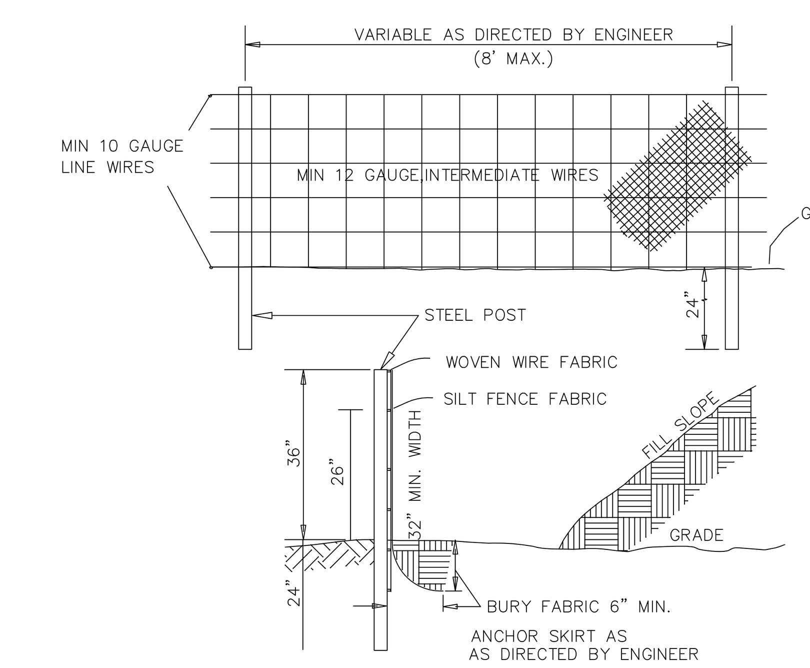
PLAN



CROSS SECTION

CONSTRUCTION ENTRANCE
NTS

FRONT VIEW



SIDE VIEW

Maintenance

Inspect sediment fences at least once a week and after each rainfall. Make any required repairs immediately.

Should the fabric of a sediment fence collapse, tear, decompose or become in-effective, replace it promptly. Replace burlap every 60 days.

Remove sediment deposits as necessary to provide adequate storage volume for the next rain and to reduce pressure on the fence. Take care to avoid undermining the fence during cleanout.

Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.

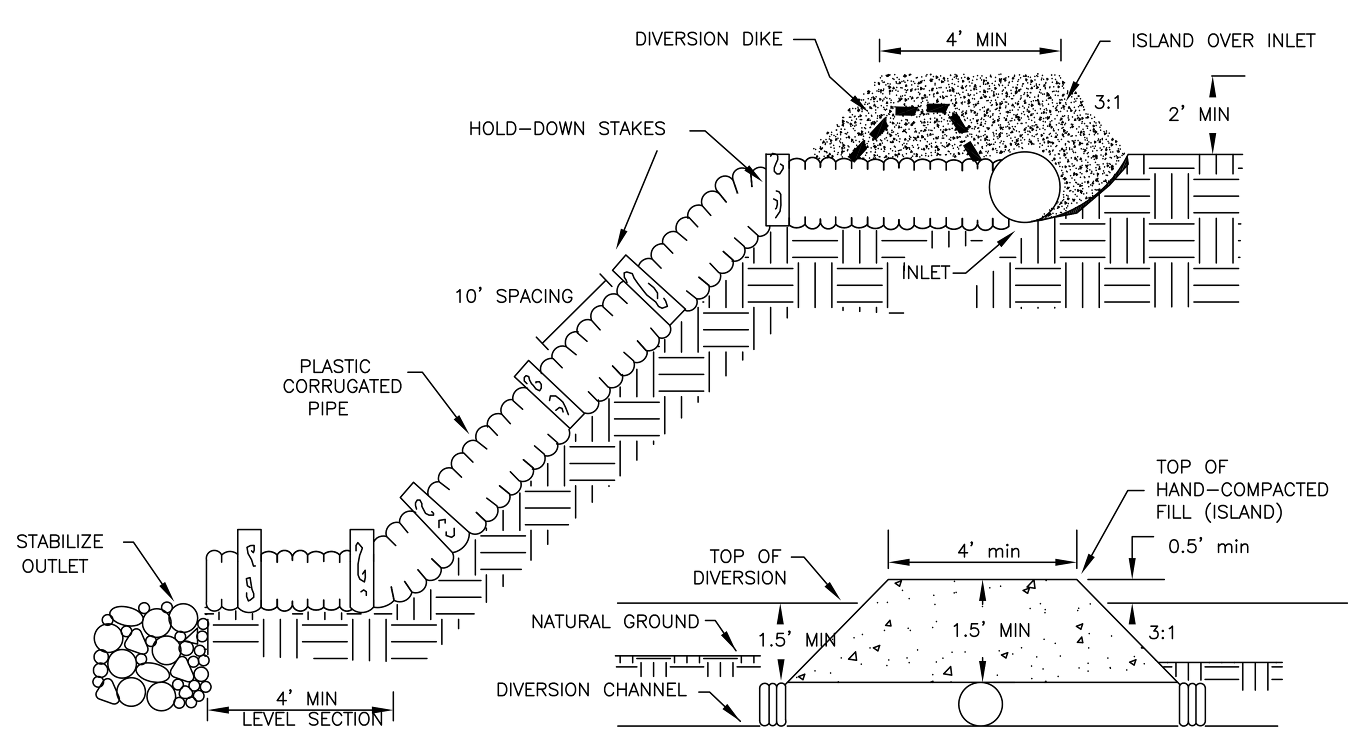
NOTE:

USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW

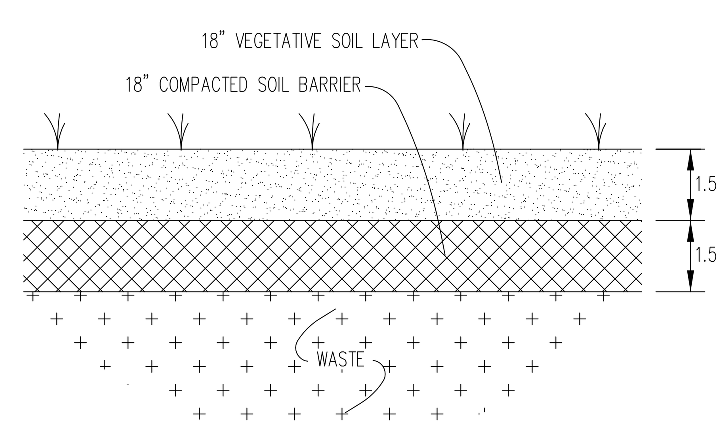
FOR REPAIR OF SILT FENCE FAILURES USE NO. 57 WASHED STONE FOR ANCHOR.

USE NO. 57 WASHED STONE FOR ANCHOR WHEN SILT FENCE IS PROTECTING A CATCH BASIN

TEMPORARY SILT FENCE
NTS



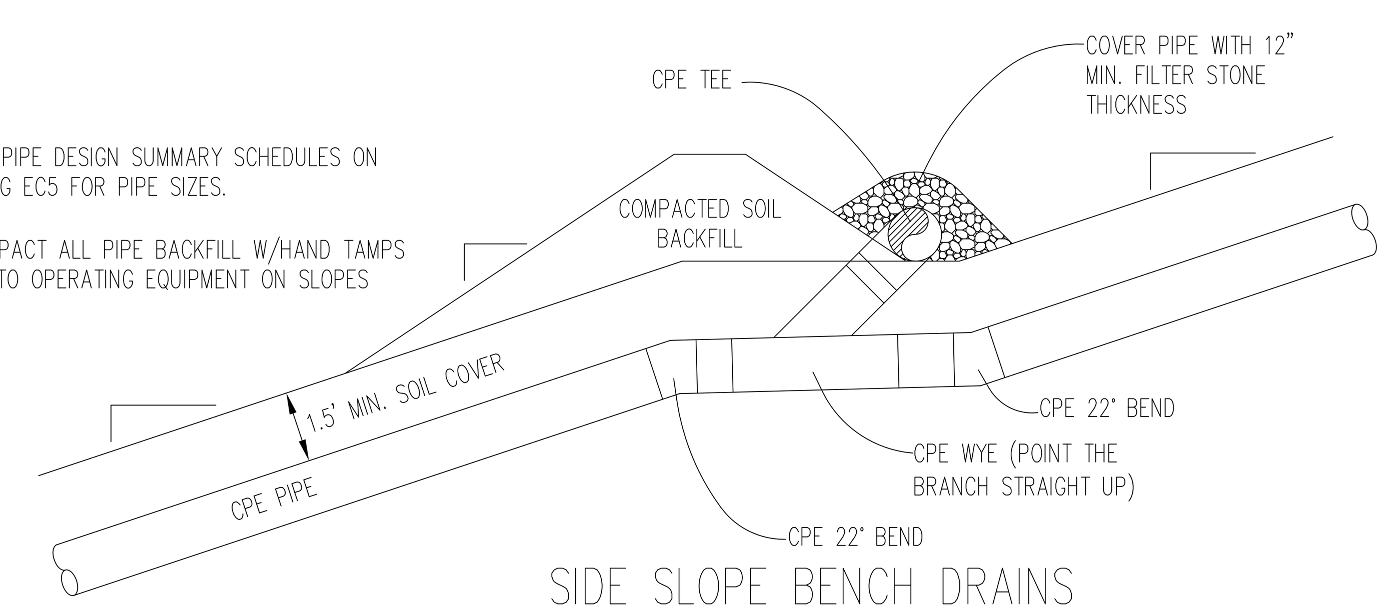
TEMP SLOPE DRAIN
NTS



FINAL COVER SOIL DETAIL

NOTE:
1. SEE PIPE DESIGN SUMMARY SCHEDULES ON DRAWING EC5 FOR PIPE SIZES.

2. COMPACT ALL PIPE BACKFILL W/HAND TAMPS PRIOR TO OPERATING EQUIPMENT ON SLOPES



SIDE SLOPE BENCH DRAINS

Maintenance

Inspect temporary diversions once a week and after every rainfall. Immediately remove sediment from the flow area and repair the diversion ridge. Carefully check outlets and make timely repairs as needed. When the area protected is permanently stabilized, remove the ridge and the channel to blend with the natural ground level and appropriately stabilize it.

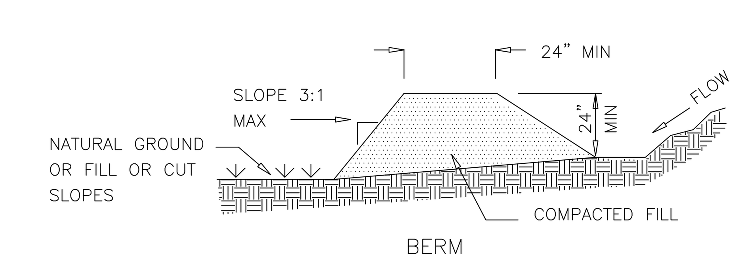
a, MACHINE COMPACTION OF ALL FILL IS REQUIRED. DIVERSIONS SUFFICIENT TO DIRECT ALL SEDIMENT LADEN STORMWATER INTO A SEDIMENT CONTROL DEVICE MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING OF THE AREA (OR IN CONJUNCTION WITH THIS OPERATION IF SEDIMENT CONTROLS AND DIVERSIONS ARE INSTALLED IS EACH CRITICAL POINT IS REACHED).

b, DIVERSIONS SHOULD BE LOCATED TO MINIMIZE DAMAGES BY CONSTRUCTION OPERATIONS.

c, DIVERSIONS SHALL BE SEEDED AND MULCHED IMMEDIATELY

d, CHECK DEVICE AFTER EACH RAIN, BUT ONCE A WEEK REPAIR AS NECESSARY.

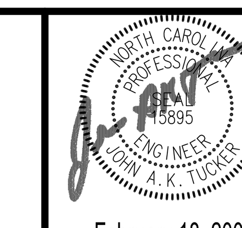
REGARDLESS.



BERM

NOTES:
POSITIVE GRADE MUST BE PROVIDED TO ASSURE DRAINAGE.
IF SLOPE EXCEEDS 2% SEED AND MULCH DIVERSION. TRY NOT TO EXCEED 5%(HIGH VELOCITIES RELUST). MAXIMUM D. A. = 5 ACRES WITHOUT SUPPORTING CALCS..
DIVERSIONS AT THE TOP OF SLOPES MUST EMPTY INTO AN APPROVED SLOPE DRAIN. BERM/DITCH IS MOST COMMONLY USED.

PERMANENT DIVERSION BERM
NTS



February 18, 2008

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C & D LANDFILL, INC.
802 Recycling Lane
Greenville, NC 27834

C&D LANDFILL - PHASE 2
PERMIT TO CONSTRUCT
S&EC DETAIL SHEET

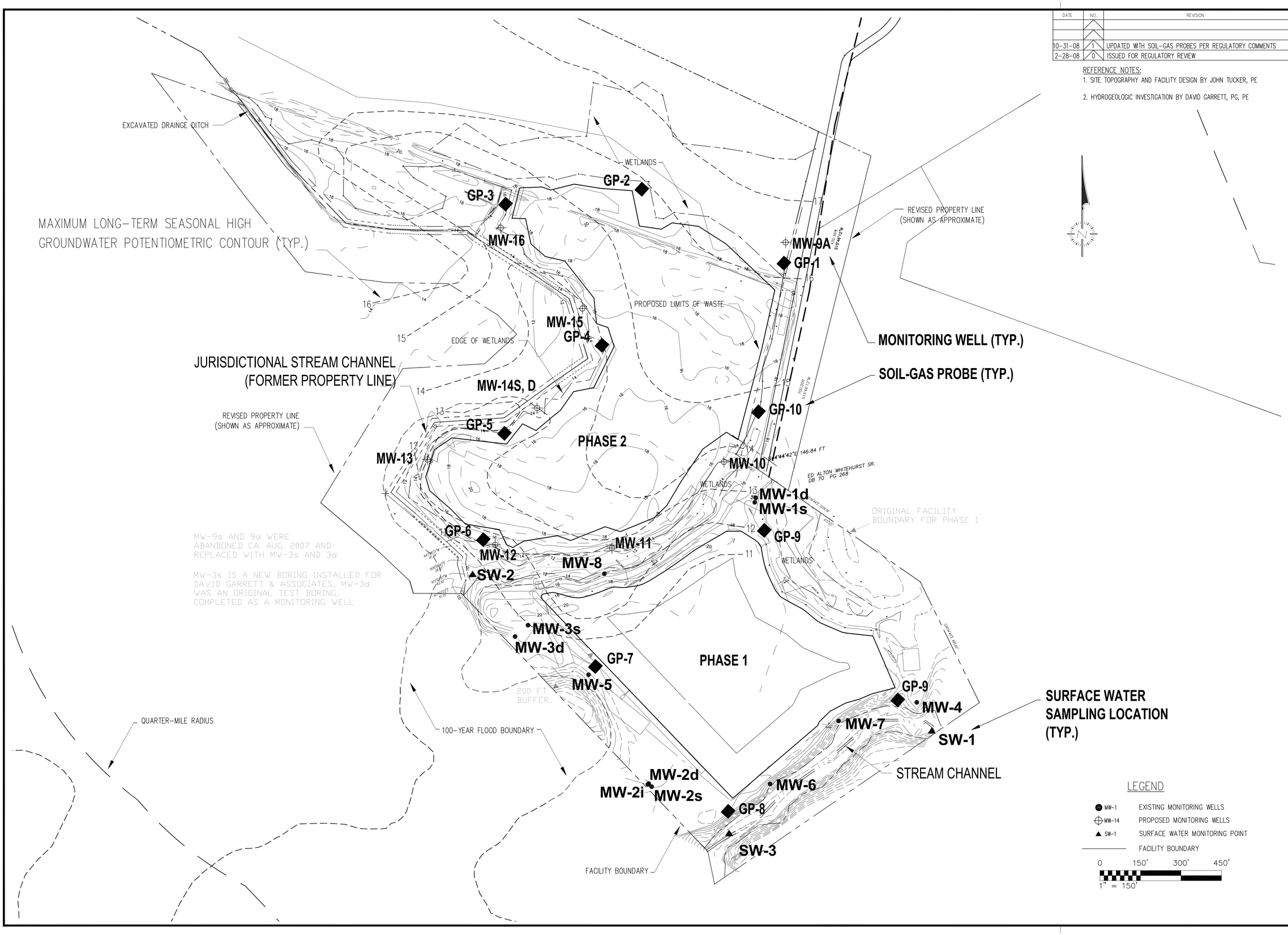
1.	REVISED PER DSW COMMENTS	10-28-08

REVISIONS

EC 2

DATE	NO.	REVISION
10-31-08	1	UPDATED WITH SOIL-GAS PROBES PER REGULATORY COMMENTS
2-28-08	0	ISSUED FOR REGULATORY REVIEW

REFERENCE NOTES:
1. SITE TOPOGRAPHY AND FACILITY DESIGN BY JOHN TUCKER, PE
2. HYDROGEOLOGIC INVESTIGATION BY DAVID GARRETT, PG, PE



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SEAL

SEAL 3-17-09

PROJECT TITLE: C&D LANDFILL, INC. PITT COUNTY, NC PERMIT TO CONSTRUCT PERMIT #74-07

DRAWING TITLE: FACILITY MONITORING PLAN AMENDMENTS (PHASE 2 APPLICATION)

DESIGNED BY: G.D.G.	DRAWN BY: G.D.G.
CHECKED BY: J.A.T.	PROJECT NO.: CDLF-2
SCALE: AS SHOWN	DATE: FEBRUARY 2008
FILE NAME: CDLF-2-WQMP	
SHEET NO. 16	DRAWING NO. MP1