Wilson 11/9/07 RCO 3365

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
CONSULTING ENGINEERS
484 MULBERRY STREET • SUITE 265 • MACON, GEORGIA 31201
P. O. BOX 974 • MACON, GEORGIA 31202-0974

H. LOWRY TRIBBLE, JR., PE
WILLIAM F. HODGES, PE
HAROLD L. NEWBERRY, PE
W. MICHAEL STUBBS, PE

CLINT L. COURSON
DANIEL E. CHEEK, PE
K. MATTHEW CHEEK, PE

TELEPHONE (478) 743-7175
FAX (478) 743-1703

WEBSITE WWW.HHNT.COM

October 11, 2007

Received OCT 2007 Solid Waste Section

Mr. Edward F. Mussler, III, P.E.
NCDENR
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: East Carolina Regional Landfill
Construction of Cell No. 12
Bertie County
Permit No. 08-03
HHNT Project No. 6703-273-01

Dear Mr. Mussler:

We have enclosed two sets of plans and bid documents for the construction of Cell No. 12 for your review and approval. Construction on this cell is expected to begin in about 45 days.

Should you have any questions, please call.

Sincerely,

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.

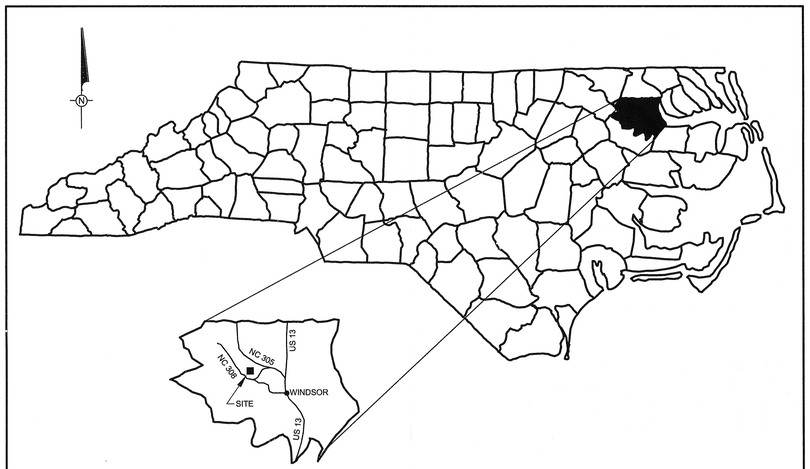
William F. Hodges, P.E.
Professional Engineer

WFH/rm

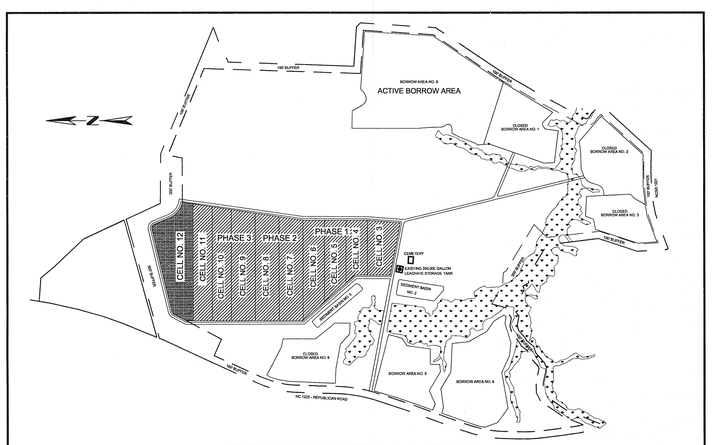
Enclosures

cc: Ray Hoffman, P.E., w/o encl.
Steve Nichting, w/o encl.
Bill Cooksey, w/o encl.
Matt Cheek, P.E., w/o encl.

CONSTRUCTION OF CELL NO. 12
EAST CAROLINA REGIONAL MSW LANDFILL
FOR
EAST CAROLINA ENVIRONMENTAL
BERTIE COUNTY, NORTH CAROLINA
SEPTEMBER, 2007



BERTIE COUNTY, NORTH CAROLINA



PROJECT SITE LOCATION
NOT TO SCALE

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
-	TITLE SHEET
1	EXISTING TOPOGRAPHIC SURVEY
2	CONSTRUCTION STAKEOUT PLAN
3	TOP OF CLAY LINER GRADING PLAN
4	LEACHATE COLLECTION PLAN
5	EROSION CONTROL PLAN
6 - 8	GENERAL CONSTRUCTION DETAILS

OWNER AND OPERATOR

REPUBLIC SERVICES OF NORTH CAROLINA, LLC
dba EAST CAROLINA ENVIRONMENTAL
1922 REPUBLICAN ROAD
AULANDER, NORTH CAROLINA 27805
252-348-3322

LEGEND

EXISTING CONTOUR	52
JURISDICTIONAL WETLANDS	
SOIL BORING OR PIEZOMETER	PZ–102A
PROPERTY LINE	
BUFFER LINE	
EXISTING ROAD	
EXISTING STORM PIPE	200
EXISTING DROP INLET	
EXISTING HEADWALL	
EXISTING METHANE MONITORING WELL	MM–1
EXISTING GROUNDWATER MONITORING WELL	GW–8
EXISTING SURFACE WATER MONITORING POINT	SW–3
PROPOSED CONTOUR	62
PROPOSED PERFORATED LEACHATE PIPE	
PROPOSED SOLID LEACHATE PIPE AND CLEANOUT	
PROPOSED SILT FENCE	
EXISTING CELL BOUNDARY	
PROPOSED CELL BOUNDARY	
TREELINE	
ANCHOR TRENCH	
STORMWATER CONVEYANCE CHANNEL	
TEMPORARY RAIN FLAP	
PROPOSED GROUNDWATER WELL	
PROPOSED ACCESS ROAD	

NORTH CAROLINA PROFESSIONAL SEAL 16146 ENGINEER WILLIAM F. HODGES 9/28/07

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC

484 MULBERRY STREET, SUITE 265 - MACON, GEORGIA 31201
P.O. BOX 974 - MACON, GEORGIA 31202
(478) 743-7175

NORTH CAROLINA PROFESSIONAL SEAL 32249 ENGINEER K. MATTHEW CHEEK 9-28-07

ECC12.TS
9/28/07

LOCAL COORDINATE SYSTEM

HORIZONTAL CONTROL:
SURVEY CONTROL POINT #2128
1/2" REBAR LOCATED AT SOUTHWEST CORNER
OF DETENTION BASIN NO. 3 ON TOP OF BERM
N 11220.50, E 6155.61

HORIZONTAL CONTROL:
SURVEY CONTROL POINT #2129
1/2" REBAR LOCATED AT NORTHWEST CORNER
OF DETENTION BASIN NO. 3 ON TOP OF BERM
N 11802.03, E 5667.35

BENCHMARK:
3/4" REBAR, ±150' SOUTHEAST
OF SCALEHOUSE
ELEV. = 56.64

NOTES:
1. TOPOGRAPHIC INFORMATION ON THIS SHEET IS BASED ON AERIAL TOPOGRAPHIC MAP PREPARED BY SPATIAL DATA INC. MARCH 6, 2007.
2. PIEZOMETER LOCATIONS SHOWN IN THIS SHEET WERE PROVIDED BY DONALDSON GARRETT AND ASSOCIATES IN AN EMAIL DATED SEPTEMBER 7, 2004.

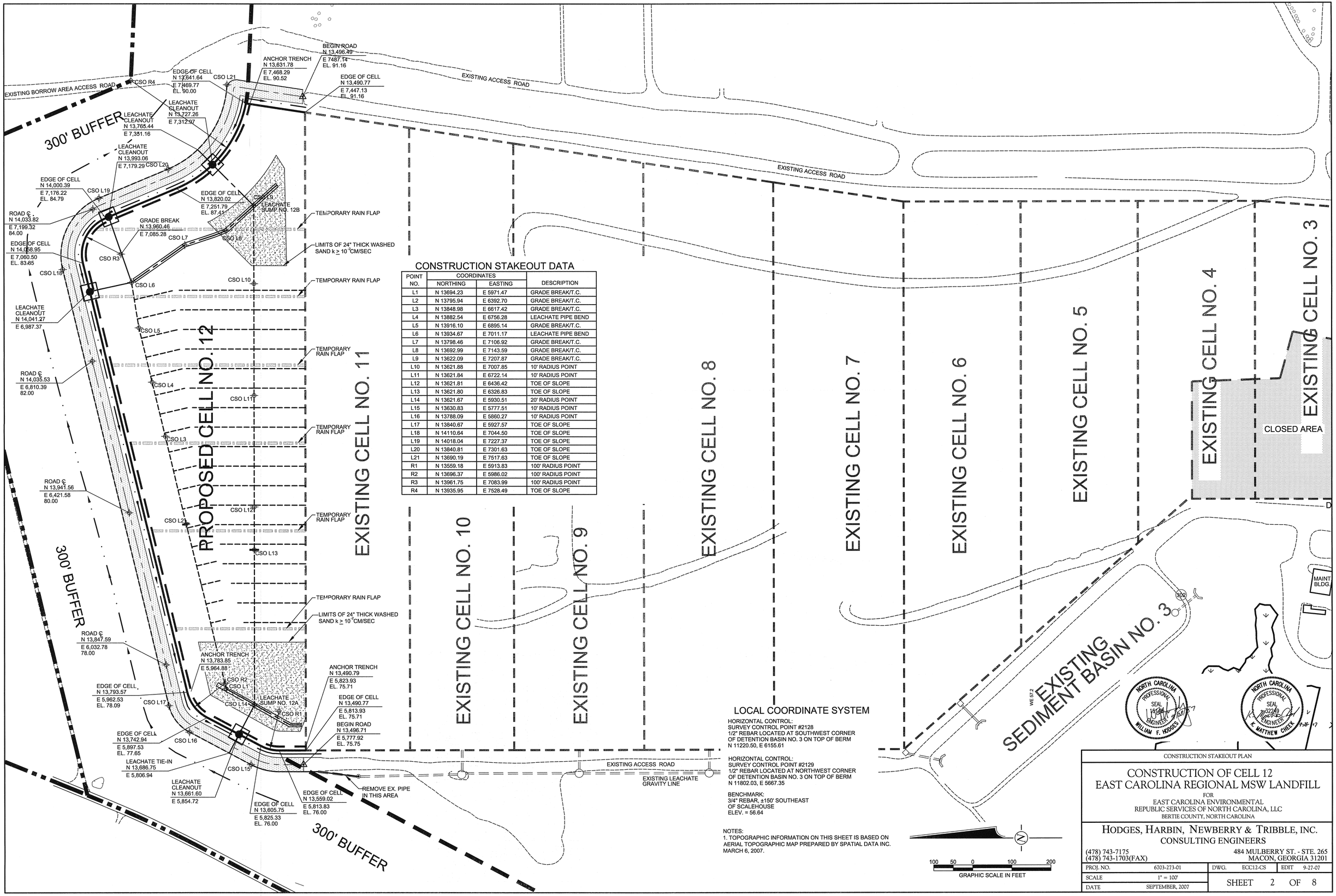
EXISTING TOPOGRAPHIC SURVEY

CONSTRUCTION OF CELL 12
EAST CAROLINA REGIONAL MSW LANDFILL

FOR
EAST CAROLINA ENVIRONMENTAL
REPUBLIC SERVICES OF NORTH CAROLINA, LLC
BERTIE COUNTY, NORTH CAROLINA

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
CONSULTING ENGINEERS
(478) 743-7175
(478) 743-1703(FAX)
484 MULBERRY ST. - STE. 265
MACON, GEORGIA 31201

PROJ. NO.	6703-273-01	DWG. ECC12-TP	EDIT 9-27-07
SCALE	1" = 100'	SHEET 1 OF 8	
DATE	SEPTEMBER, 2007		



CONSTRUCTION STAKEOUT DATA

POINT NO.	COORDINATES NORTHING	COORDINATES EASTING	DESCRIPTION
L1	N 13694.23	E 5971.47	GRADE BREAK/T.C.
L2	N 13795.94	E 6392.70	GRADE BREAK/T.C.
L3	N 13848.98	E 6617.42	GRADE BREAK/T.C.
L4	N 13882.54	E 6756.28	LEACHATE PIPE BEND
L5	N 13916.10	E 6895.14	GRADE BREAK/T.C.
L6	N 13934.67	E 7011.17	LEACHATE PIPE BEND
L7	N 13798.46	E 7106.92	GRADE BREAK/T.C.
L8	N 13692.99	E 7143.59	GRADE BREAK/T.C.
L9	N 13622.09	E 7207.87	GRADE BREAK/T.C.
L10	N 13621.88	E 7007.85	10' RADIUS POINT
L11	N 13621.84	E 6722.14	10' RADIUS POINT
L12	N 13621.81	E 6436.42	TOE OF SLOPE
L13	N 13621.80	E 6326.83	TOE OF SLOPE
L14	N 13621.67	E 5930.51	20' RADIUS POINT
L15	N 13630.83	E 5777.51	10' RADIUS POINT
L16	N 13788.09	E 5860.27	10' RADIUS POINT
L17	N 13840.67	E 5927.57	TOE OF SLOPE
L18	N 14110.64	E 7044.50	TOE OF SLOPE
L19	N 14018.04	E 7227.37	TOE OF SLOPE
L20	N 13840.81	E 7301.63	TOE OF SLOPE
L21	N 13690.19	E 7517.63	TOE OF SLOPE
R1	N 13559.18	E 5913.83	100' RADIUS POINT
R2	N 13696.37	E 5986.02	100' RADIUS POINT
R3	N 13961.75	E 7083.99	100' RADIUS POINT
R4	N 13935.95	E 7528.49	TOE OF SLOPE

LOCAL COORDINATE SYSTEM

HORIZONTAL CONTROL:
SURVEY CONTROL POINT #2128
1/2" REBAR LOCATED AT SOUTHWEST CORNER
OF DETENTION BASIN NO. 3 ON TOP OF BERM
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OF SCALEHOUSE
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NOTES:
1. TOPOGRAPHIC INFORMATION ON THIS SHEET IS BASED ON AERIAL TOPOGRAPHIC MAP PREPARED BY SPATIAL DATA INC. MARCH 6, 2007.

CONSTRUCTION STAKEOUT PLAN

CONSTRUCTION OF CELL 12
EAST CAROLINA REGIONAL MSW LANDFILL

FOR
EAST CAROLINA ENVIRONMENTAL
REPUBLIC SERVICES OF NORTH CAROLINA, LLC
BERTIE COUNTY, NORTH CAROLINA

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(478) 743-1703(FAX)
484 MULBERRY ST. - STE. 265
MACON, GEORGIA 31201

PROJ. NO.	6703-273-01	DWG. ECC12-CS	EDIT 9-27-07
SCALE	1" = 100'	SHEET 2 OF 8	
DATE	SEPTEMBER, 2007		

TOP OF CLAY LINER GRADING PLAN

CONSTRUCTION OF CELL 12
EAST CAROLINA REGIONAL MSW LANDFILL

FOR
EAST CAROLINA ENVIRONMENTAL
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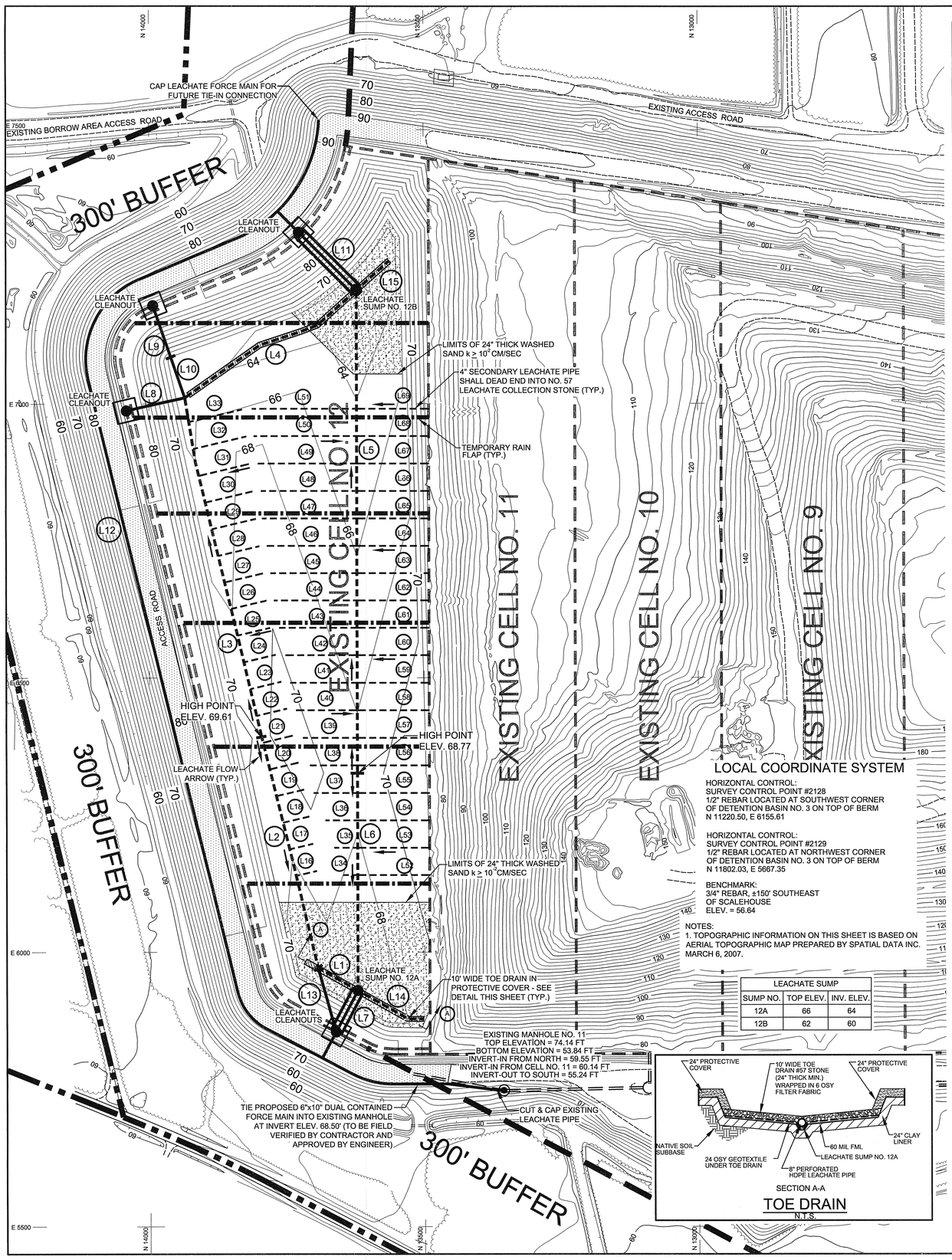
MACON, GEORGIA 31201

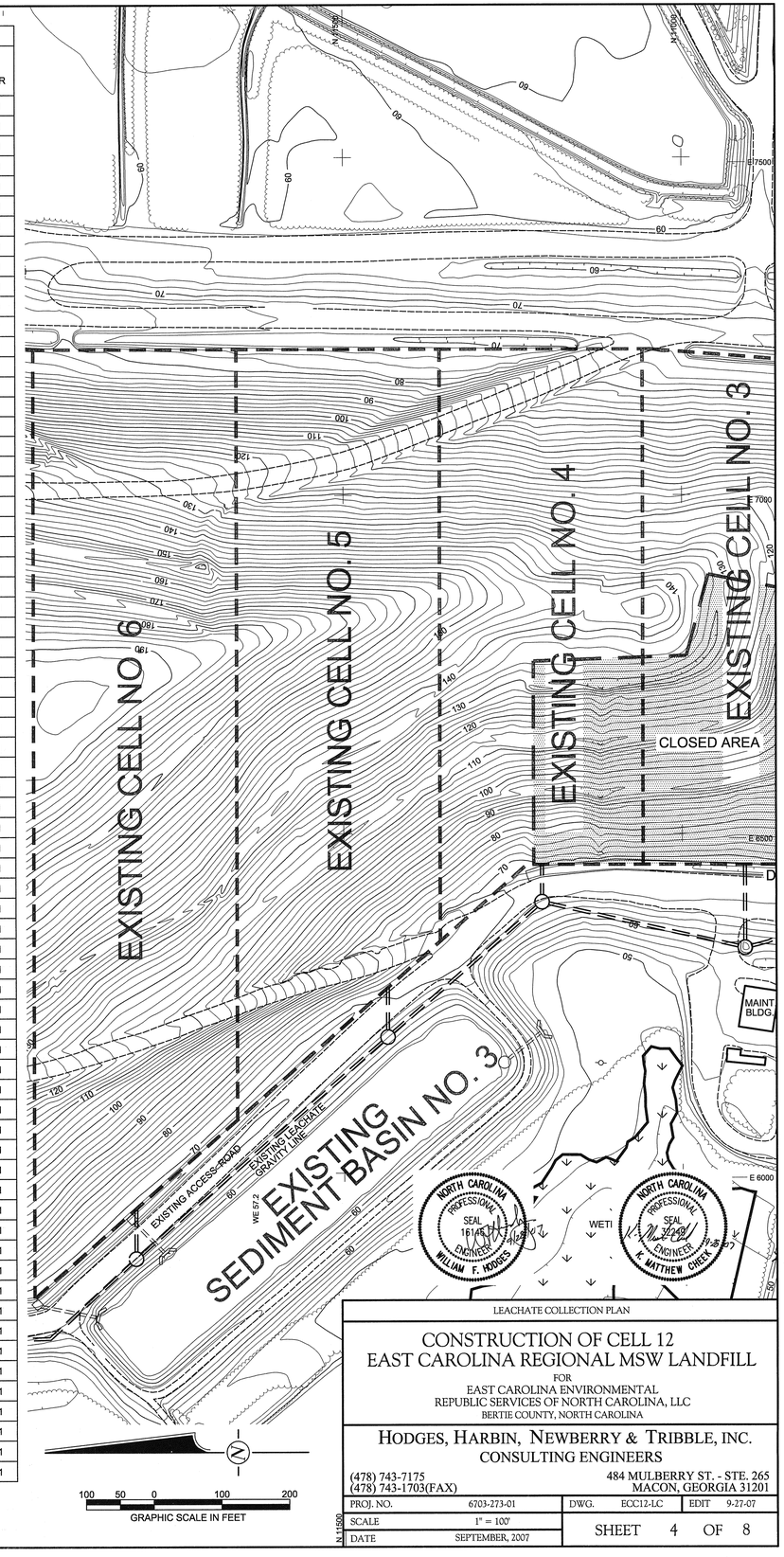
PROJ. NO.	6703-273-01	DWG. ECC12-IG	EDIT 9-27-07
SCALE	1" = 100'	SHEET 3 OF 8	
DATE	SEPTEMBER, 2007		



LEACHATE SUMP		
SUMP NO.	TOP ELEV.	INV. ELEV.
12A	66	64
12B	62	60

HDPE LEACHATE PIPING								
PIPE NO.	SOLID					PERFORATED		SDR
	**2"	2" X 4" D.C.	6" X 10" D.C.	8"	24"	***4"	8"	
L1	-	-	-	-	-	-	84' @ 0.70%	11
L2	-	-	-	-	-	-	434' @ 0.70%	11
L3	-	-	-	-	-	-	635' @ 0.70%	11
L4	-	-	-	-	-	-	374' @ 1.40%	11
L5	-	-	-	-	-	-	881' @ 0.70%	11
L6	-	-	-	-	-	-	397' @ 0.70%	11
L7*	89'	54'	-	89'	2 - 88'	-	-	11
L8*	-	-	-	113'	-	-	-	11
L9*	-	-	-	103'	-	-	-	11
L10	-	-	-	79' @ 1.05%	-	-	-	11
L11*	154'	54'	-	154'	2 - 153'	-	-	11
L12	-	-	2283'	-	-	-	-	11
L13	-	-	-	122'	-	-	-	11
L14	-	-	-	-	-	-	132'	11
L15	-	-	-	-	-	-	80'	11
L16	-	-	-	-	-	39'	-	11
L17	-	-	-	-	-	44'	-	11
L18	-	-	-	-	-	49'	-	11
L19	-	-	-	-	-	52'	-	11
L20	-	-	-	-	-	54'	-	11
L21	-	-	-	-	-	55'	-	11
L22	-	-	-	-	-	57'	-	11
L23	-	-	-	-	-	58'	-	11
L24	-	-	-	-	-	59'	-	11
L25	-	-	-	-	-	61'	-	11
L26	-	-	-	-	-	66'	-	11
L27	-	-	-	-	-	72'	-	11
L28	-	-	-	-	-	77'	-	11
L29	-	-	-	-	-	83'	-	11
L30	-	-	-	-	-	88'	-	11
L31	-	-	-	-	-	94'	-	11
L32	-	-	-	-	-	100'	-	11
L33	-	-	-	-	-	100'	-	11
L34	-	-	-	-	-	27'	-	11
L35	-	-	-	-	-	43'	-	11
L36	-	-	-	-	-	59'	-	11
L37	-	-	-	-	-	80'	-	11
L38	-	-	-	-	-	87'	-	11
L39	-	-	-	-	-	100'	-	11
L40	-	-	-	-	-	117'	-	11
L41	-	-	-	-	-	122'	-	11
L42	-	-	-	-	-	131'	-	11
L43	-	-	-	-	-	142'	-	11
L44	-	-	-	-	-	152'	-	11
L45	-	-	-	-	-	158'	-	11
L46	-	-	-	-	-	164'	-	11
L47	-	-	-	-	-	173'	-	11
L48	-	-	-	-	-	175'	-	11
L49	-	-	-	-	-	180'	-	11
L50	-	-	-	-	-	188'	-	11
L51	-	-	-	-	-	191'	-	11
L52	-	-	-	-	-	131'	-	11
L53	-	-	-	-	-	131'	-	11
L54	-	-	-	-	-	131'	-	11
L55	-	-	-	-	-	131'	-	11
L56	-	-	-	-	-	131'	-	11
L57	-	-	-	-	-	131'	-	11
L58	-	-	-	-	-	131'	-	11
L59	-	-	-	-	-	131'	-	11
L60	-	-	-	-	-	131'	-	11
L61	-	-	-	-	-	131'	-	11
L62	-	-	-	-	-	131'	-	11
L63	-	-	-	-	-	131'	-	11
L64	-	-	-	-	-	131'	-	11
L65	-	-	-	-	-	131'	-	11
L66	-	-	-	-	-	131'	-	11
L67	-	-	-	-	-	131'	-	11
L68	-	-	-	-	-	131'	-	11
L69	-	-	-	-	-	131'	-	11

*3-D LENGTH OF PIPE MEASURED FOR SLOPES OF 25%
**INDICATES 2" EPDM LEACHATE PIPE PLACED INSIDE 24" HDPE RISER PIPE.
***ALL 4" PIPES WILL BE WRAPPED IN FABRIC SOCK.



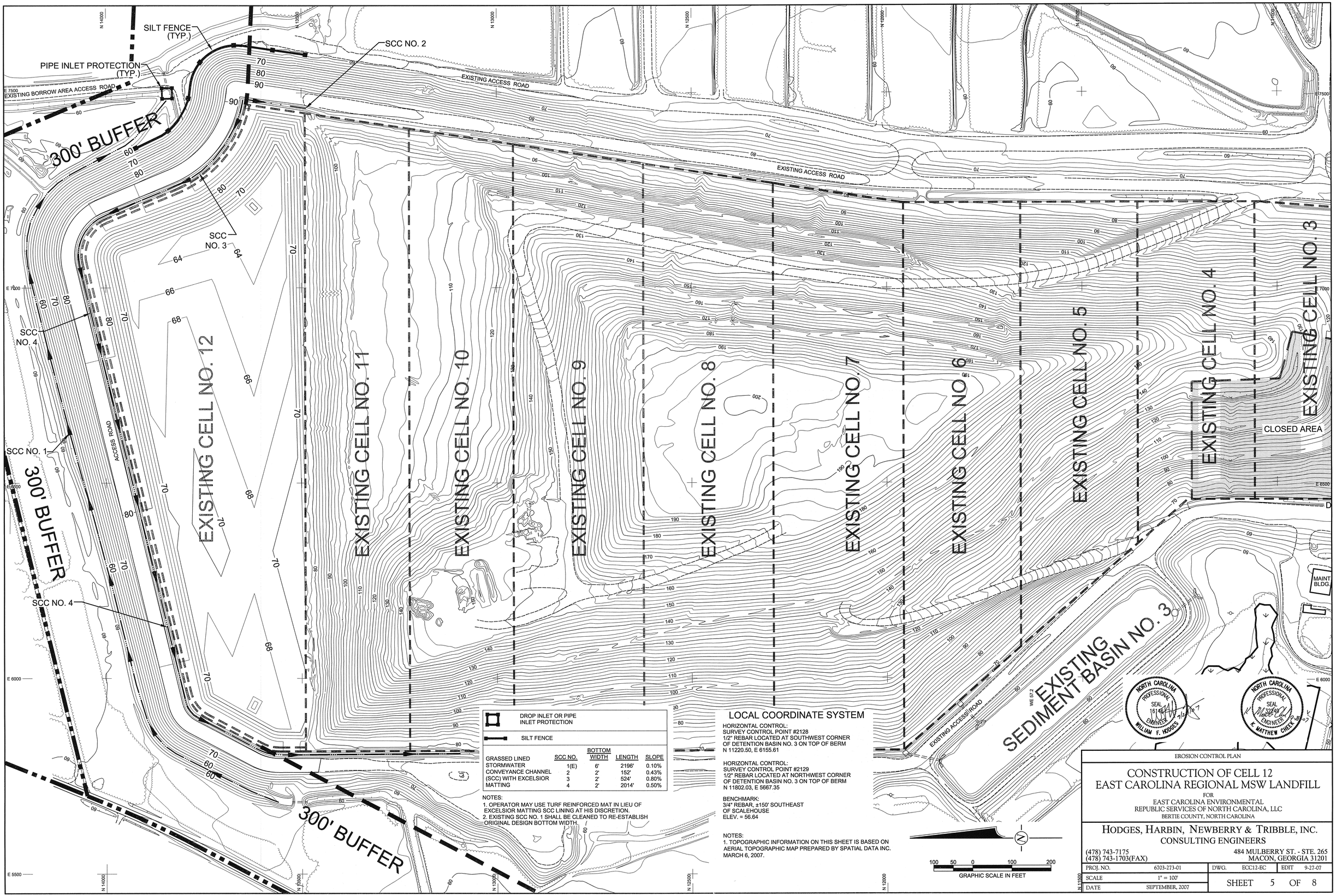
LEACHATE COLLECTION PLAN

CONSTRUCTION OF CELL 12
EAST CAROLINA REGIONAL MSW LANDFILL

FOR
EAST CAROLINA ENVIRONMENTAL
REPUBLIC SERVICES OF NORTH CAROLINA, LLC
BERTIE COUNTY, NORTH CAROLINA

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
CONSULTING ENGINEERS
(478) 743-7175
(478) 743-1703(FAX)
484 MULBERRY ST. - STE. 265
MACON, GEORGIA 31201

PROJ. NO.	6703-273-01	DWG. ECC12-LC	EDIT 9-27-07
SCALE	1" = 100'	SHEET 4 OF 8	
DATE	SEPTEMBER, 2007		



DROP INLET OR PIPE INLET PROTECTION

SILT FENCE

	SCC NO.	BOTTOM WIDTH	LENGTH	SLOPE
GRASSED LINED STORMWATER CONVEYANCE CHANNEL (SCC) WITH EXCELSIOR MATTING	1(E)	6'	2196'	0.10%
	2	2'	152'	0.43%
	3	2'	524'	0.80%
	4	2'	2014'	0.50%

NOTES:
1. OPERATOR MAY USE TURF REINFORCED MAT IN LIEU OF EXCELSIOR MATTING SCC LINING AT HIS DISCRETION.
2. EXISTING SCC NO. 1 SHALL BE CLEANED TO RE-ESTABLISH ORIGINAL DESIGN BOTTOM WIDTH.

LOCAL COORDINATE SYSTEM

HORIZONTAL CONTROL:
SURVEY CONTROL POINT #2128
1/2" REBAR LOCATED AT SOUTHWEST CORNER OF DETENTION BASIN NO. 3 ON TOP OF BERM
N 11220.50, E 6155.61

HORIZONTAL CONTROL:
SURVEY CONTROL POINT #2129
1/2" REBAR LOCATED AT NORTHWEST CORNER OF DETENTION BASIN NO. 3 ON TOP OF BERM
N 11802.03, E 5667.35

BENCHMARK:
3/4" REBAR, ±150' SOUTHEAST OF SCALEHOUSE
ELEV. = 56.64

NOTES:
1. TOPOGRAPHIC INFORMATION ON THIS SHEET IS BASED ON AERIAL TOPOGRAPHIC MAP PREPARED BY SPATIAL DATA INC. MARCH 6, 2007.

100 50 0 100 200
GRAPHIC SCALE IN FEET

NORTH CAROLINA PROFESSIONAL SEAL 16146 ENGINEER WILLIAM F. HODGES

NORTH CAROLINA PROFESSIONAL SEAL 32249 ENGINEER K. MATTHEW CHECK

EROSION CONTROL PLAN

CONSTRUCTION OF CELL 12
EAST CAROLINA REGIONAL MSW LANDFILL

FOR
EAST CAROLINA ENVIRONMENTAL
REPUBLIC SERVICES OF NORTH CAROLINA, LLC
BERTIE COUNTY, NORTH CAROLINA

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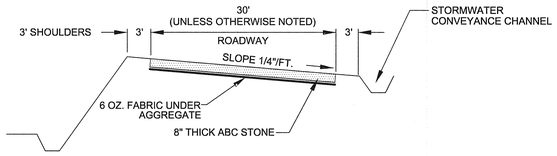
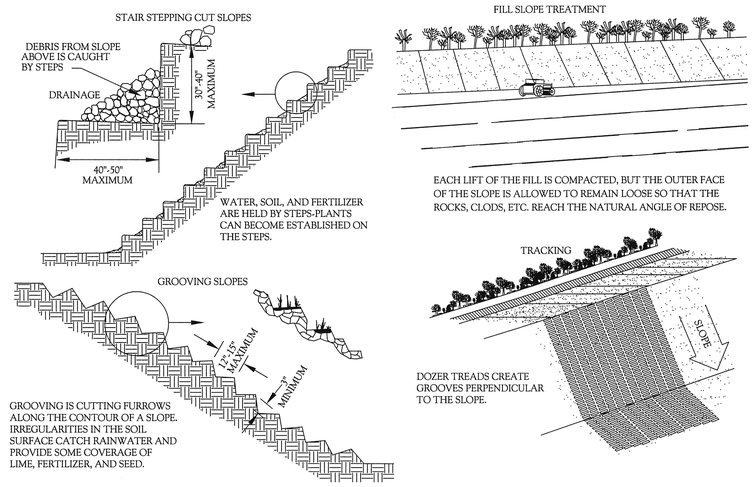
PROJ. NO.	6703-273-01	DWG. ECC12-EC	EDIT 9-27-07
SCALE	1" = 100'	SHEET 5 OF 8	
DATE	SEPTEMBER, 2007		

1



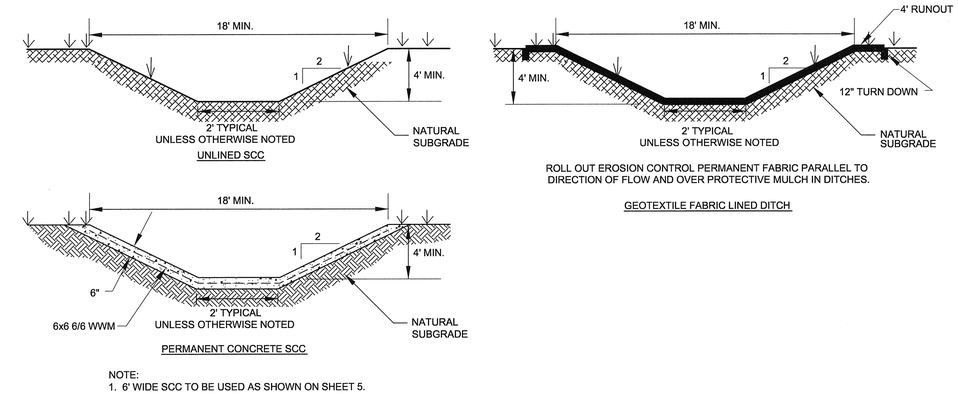
ALL WEATHER ACCESS ROAD SECTION

2



SURFACE ROUGHENING

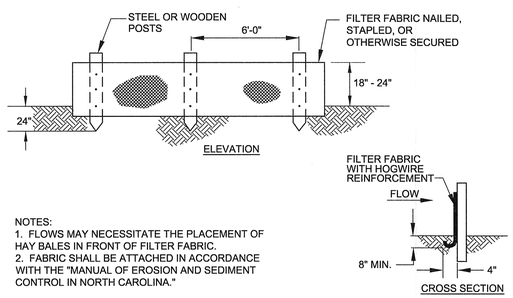
3



NOTE:
1. 6' WIDE SCC TO BE USED AS SHOWN ON SHEET 5.

STORMWATER CONVEYANCE CHANNEL SECTIONS

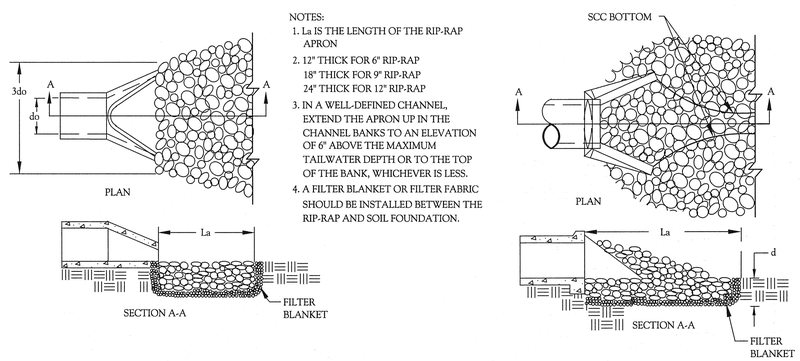
4



NOTES:
1. FLOWS MAY NECESSITATE THE PLACEMENT OF HAY BALES IN FRONT OF FILTER FABRIC.
2. FABRIC SHALL BE ATTACHED IN ACCORDANCE WITH THE "MANUAL OF EROSION AND SEDIMENT CONTROL IN NORTH CAROLINA."

SILT FENCE

5

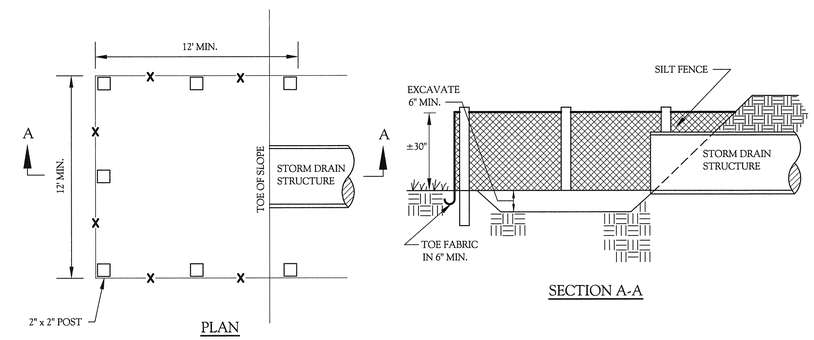


NOTES:
1. La IS THE LENGTH OF THE RIP-RAP APRON
2. 12" THICK FOR 6" RIP-RAP
   18" THICK FOR 9" RIP-RAP
   24" THICK FOR 12" RIP-RAP
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP IN THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIP-RAP AND SOIL FOUNDATION.

OUTLET PROTECTION

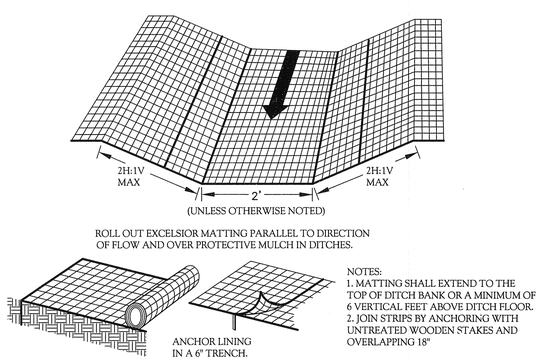
OUTLET PROTECTION

6



PIPE INLET PROTECTION

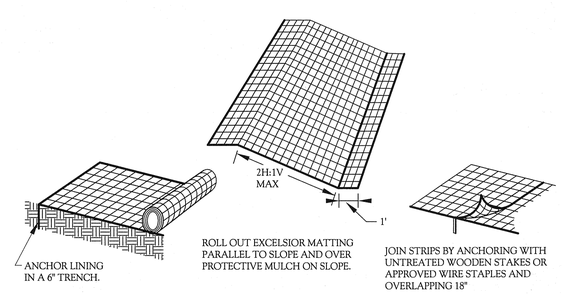
7



NOTES:
1. MATTING SHALL EXTEND TO THE TOP OF DITCH BANK OR A MINIMUM OF 6 VERTICAL FEET ABOVE DITCH FLOOR.
2. JOIN STRIPS BY ANCHORING WITH UNTREATED WOODEN STAKES AND OVERLAPPING 18"

TEMPORARY SCC LINING - EXCELSIOR MATTING

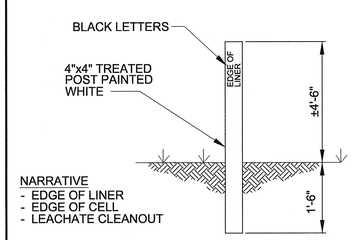
8



NOTES:
1. INSTALL SEED PRIOR TO PLACEMENT OF MATTING.
2. STAKE ALL MATS AS NEEDED TO PREVENT SHIFTING.
3. INSTALL ALL MATS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. BONDED FIBER MATRIX MAY BE USED ON SLOPES IN PLACE OF EXCELSIOR MATTING.

EXCELSIOR (WOOD FIBER) MATTING (SLOPES) (AS NECESSARY)

9



NARRATIVE
- EDGE OF LINER
- EDGE OF CELL
- LEACHATE CLEANOUT

NOTE: LOCATE EDGE OF LINER MARKERS EVERY 100' ALONG EDGE OF LINER AND AT ALL CORNERS.

MARKER POSTS

NORTH CAROLINA PROFESSIONAL SEAL 16149 ENGINEER WILLIAM F. HODGES

NORTH CAROLINA PROFESSIONAL SEAL 32248 ENGINEER T. K. MATTHEW CHEEK

GENERAL CONSTRUCTION DETAILS

CONSTRUCTION OF CELL 12
EAST CAROLINA REGIONAL MSW LANDFILL

FOR
EAST CAROLINA ENVIRONMENTAL
REPUBLIC SERVICES OF NORTH CAROLINA, LLC
BERTIE COUNTY, NORTH CAROLINA

HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
CONSULTING ENGINEERS
(478) 743-7175
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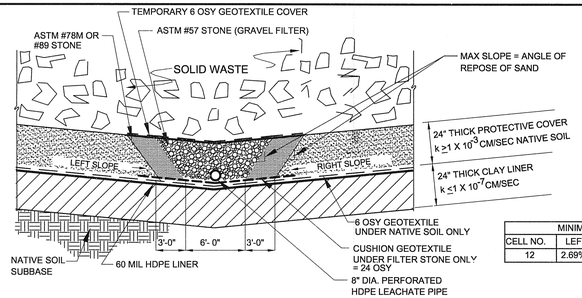
484 MULBERRY ST. - STE. 265
MACON, GEORGIA 31201

PROJ. NO.	6703-273-01	DWG.	ECC12-D1	EDIT 9-27-07
SCALE	NOT TO SCALE	SHEET 6 OF 8		
DATE	SEPTEMBER, 2007			

10

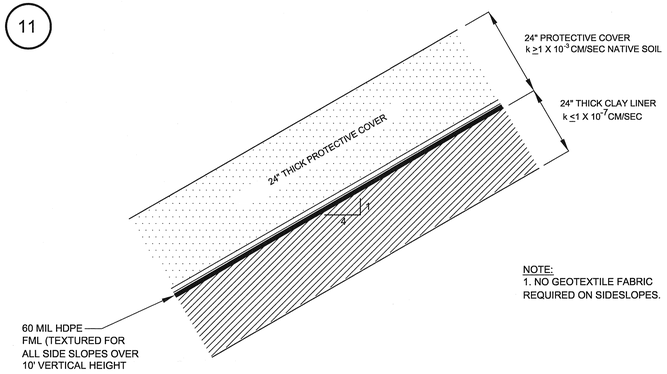


MINIMUM SLOPE			
CELL NO.	LEFT	MIDDLE	RIGHT
12	2.69%	2.00%	2.60%

NOTES:
1) 60 MIL HDPE LINER COMPONENT SHALL BE COVERED WITH A MIN 6 OZ. PER SQ. YARD GEOTEXTILE FABRIC (EXCEPT ON SIDE SLOPES).
2) 6 OSY GEOTEXTILE SHOWN ON TOP OF STONE IS TEMPORARY AND SHOULD BE REMOVED BEFORE WASTE PLACEMENT.
3) WITHIN ± 100' OF SUMPS, 24" THICK PROTECTIVE COVER k ≥ 1 x 10^{-3}CM/SEC NATIVE SOIL SHALL BE REPLACED WITH 24" THICK PROTECTIVE COVER k ≥ 1 x 10^{-3}CM/SEC WASHED SAND AS SHOWN ON SHEET 2 OF 8.
4) PERFORATED 4" DIA. SUPPLEMENTAL LEACHATE COLLECTION PIPES SHALL BE INSTALLED IN THE PLANE WITH THE GEOTEXTILE GEOCOMPOSITE ON 50' CENTERS PERPENDICULAR TO THE 8" PERFORATED LEACHATE COLLECTION PIPE IN THE CENTERLINE OF THE CELL.

BOTTOM LINER SYSTEM

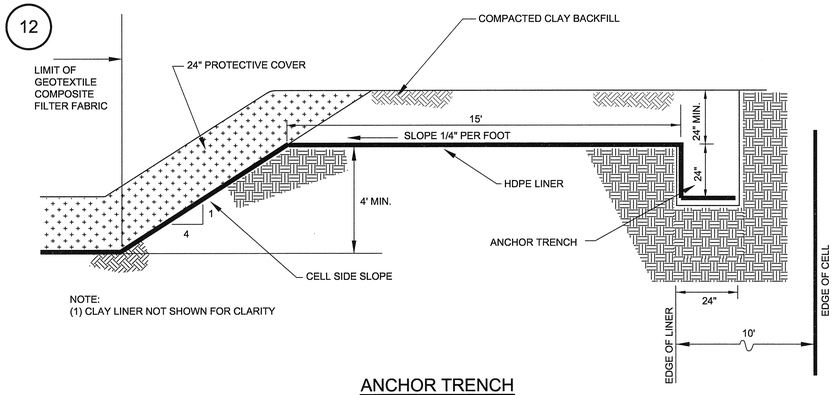
11



NOTE:
1. NO GEOTEXTILE FABRIC REQUIRED ON SIDESLOPES.

SIDE SLOPE LINER SYSTEM

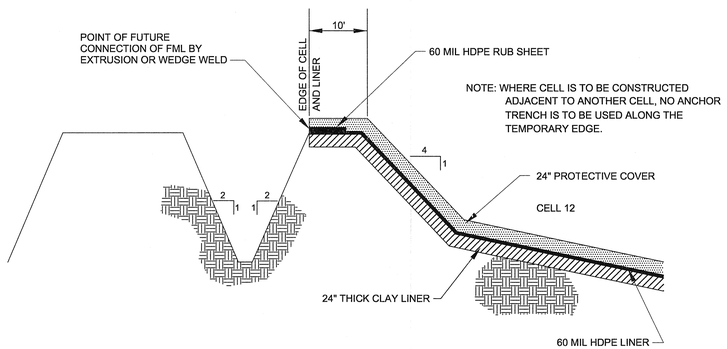
12



NOTE:
(1) CLAY LINER NOT SHOWN FOR CLARITY

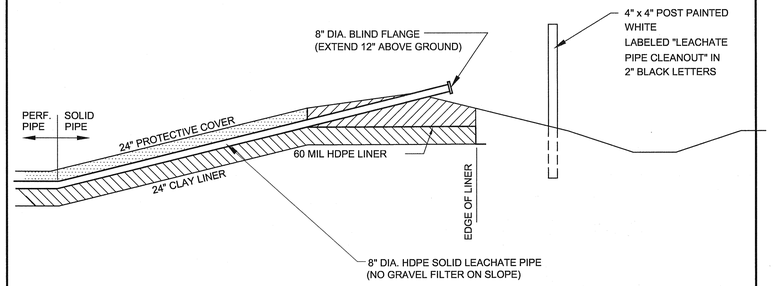
ANCHOR TRENCH

13



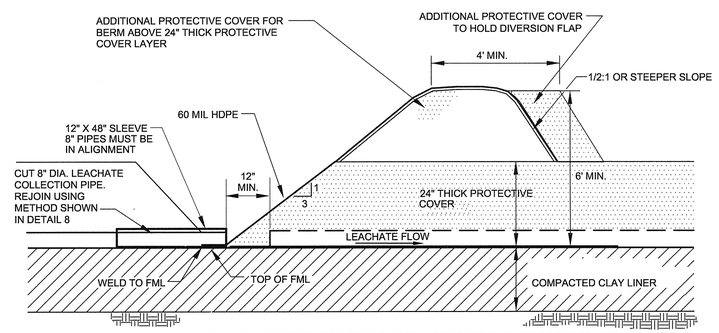
BERM ALONG EAST SIDE OF CELL NO. 12

14



LEACHATE PIPE CLEANOUT

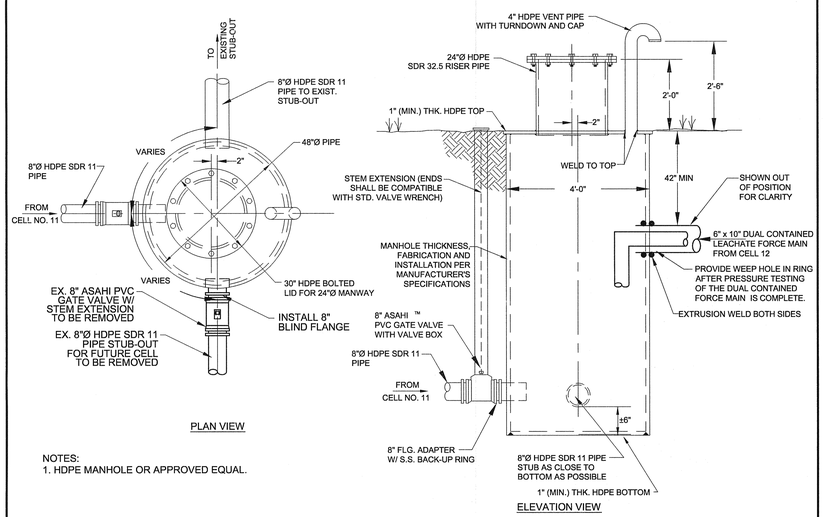
15



NOTE: BERM IS TO BE CONSTRUCTED AS THE PROTECTIVE COVER IS PLACED. COMPACTION IS NOT REQUIRED. BERMS INSIDE THE CELL SHALL BE INSTALLED SUCH THAT EACH AREA SEGMENTED BY THE BERMS IS APPROXIMATELY 2 ACRES IN SIZE.

TEMPORARY RAIN FLAP

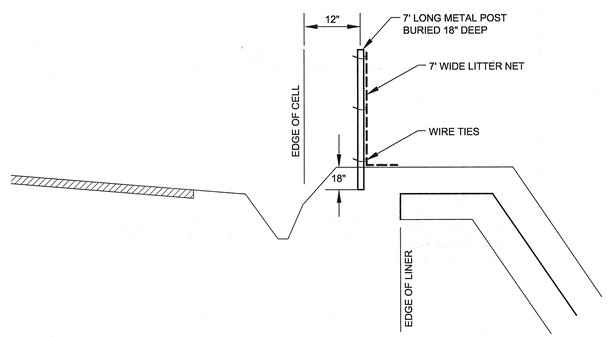
16



NOTES:
1. HDPE MANHOLE OR APPROVED EQUAL.

EXISTING LEACHATE MANHOLE NO. 11

17



LITTER FENCE AT NORTH, EAST, AND WEST ENDS OF CELL

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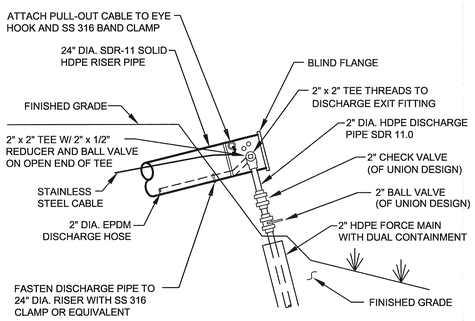
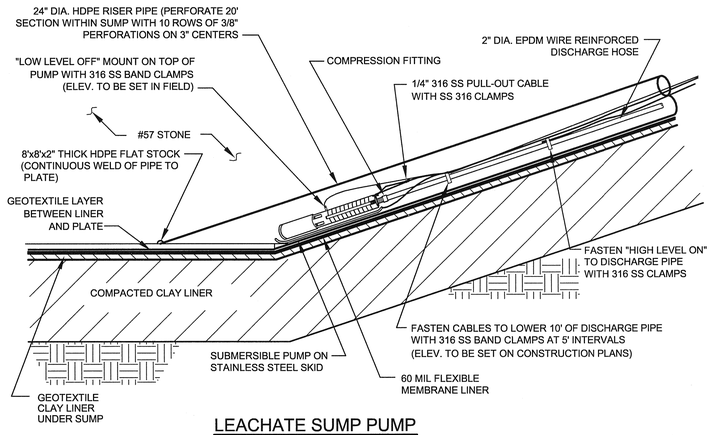


NOTE:
1. WRAP DISCHARGE PIPE AND FITTINGS WITH INSULATION AND HEAT TAPE.
2. THE ENDS OF ALL PIPES SHALL BE SEALED.

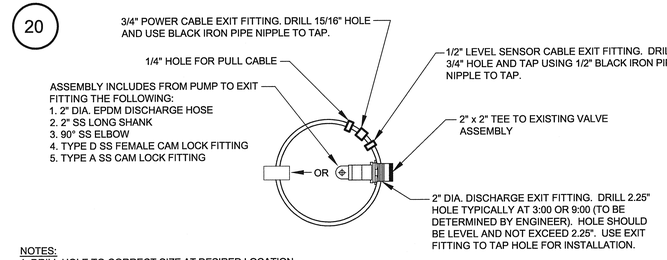
FORCE MAIN FITTINGS W/ FREEZE PROTECTION

19



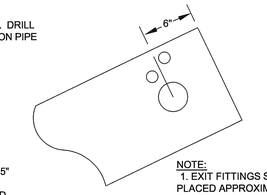
LEACHATE SUMP PUMP

20



NOTES:
1. DRILL HOLE TO CORRECT SIZE AT DESIRED LOCATION.
2. THREAD EXIT NIPPLE INTO DRILLED HOLE. HOLD AT NON-THREADED BOSS AREA OR ATTACH END CAP TO TURN. EXTEND INTO RISER APPROXIMATELY 2.5".
3. ATTACH MALE CAM AND GROOVE FITTING-USE THREAD PASTE.
4. BACK UP NIPPLE UNTIL SHOULDER OF CAM AND GROOVE FITTING IS AGAINST INSIDE OF RISER PIPE WALL.
5. POSITION CABLE EXIT FITTINGS AS REQUIRED-TYPICALLY ABOVE THE DISCHARGE EXIT FITTING.
6. THE 24" DIA. RISER PIPE SHALL BE CLEANED OF ALL HDPE PIPE SHAVINGS ONCE DRILLING IS COMPLETE. ALL SHAVINGS SHALL BE REMOVED FROM INSIDE THE PIPE PRIOR TO PLACING THE SYSTEM INTO OPERATION.

INTO 24" RISER VIEW

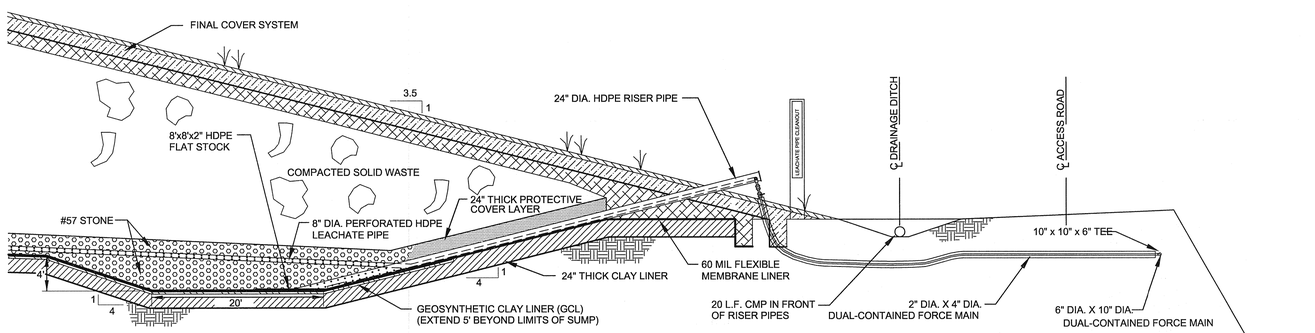


NOTE:
1. EXIT FITTINGS SHOULD BE PLACED APPROXIMATELY 6" BELOW THE TOP OF THE RISER AND 10" MAX. TO ALLOW REACH TO FITTINGS.

SIDE VIEW

24" RISER SIDE EXIT

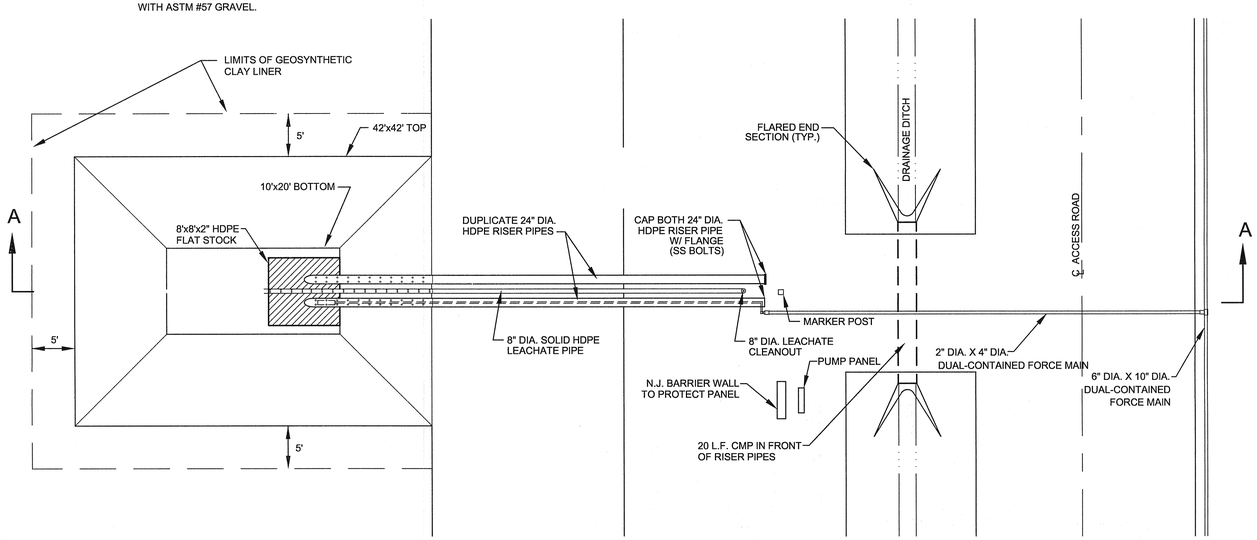
21



NOTE:
1. 2" DIA. DISCHARGE PIPE AND 4" DIA. FORCE MAIN SHALL HAVE A MINIMUM 42" COVER AND SHALL BE DUAL-CONTAINED
2. LEACHATE CLEANOUT NOT SHOWN FOR CLARITY

SECTION A

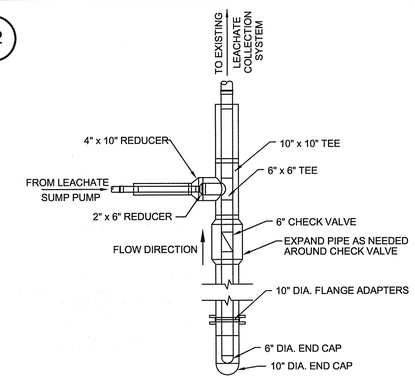
NOTE:
ENTIRE SUMP SHALL BE FILLED WITH ASTM #57 GRAVEL.



NOTE: ELECTRIC CONDUIT SHALL BE PLACED IN SAME TRENCH WITH FORCE MAIN.

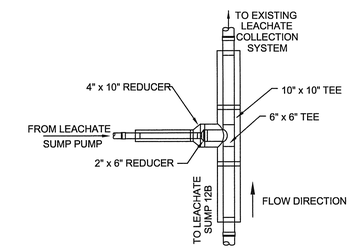
PLAN VIEW
LEACHATE SUMP ASSEMBLY

22



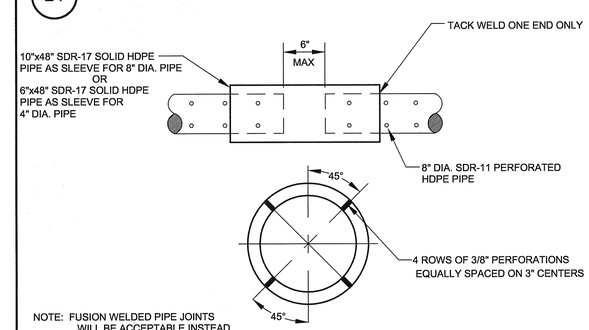
PROPOSED LEACHATE STUB-OUT AT LEACHATE SUMP 12B

23



PROPOSED LEACHATE TIE-IN AT LEACHATE SUMP 12A

24



NOTE: FUSION WELDED PIPE JOINTS WILL BE ACCEPTABLE INSTEAD OF SLEEVED JOINTS.

4" DIA. AND 8" DIA. PERFORATED SDR-11 HDPE PIPE

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