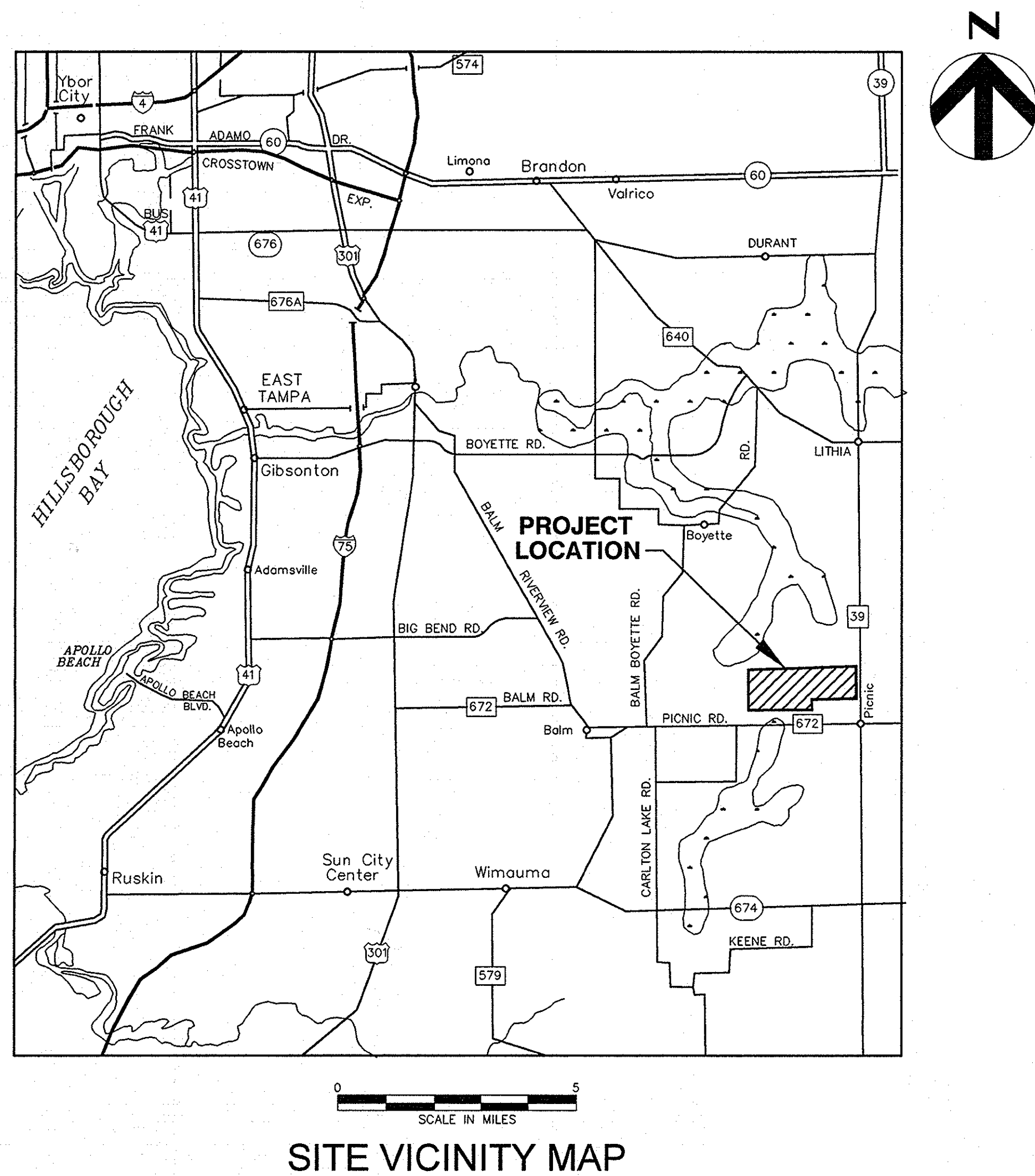


BOARD OF COUNTY COMMISSIONERS:  
KEVIN BECKNER  
VICTOR CRIST  
KEN HAGAN  
AL HIGGINBOTHAM  
LES MILLER  
SANDRA MURMAN  
STACY WHITE



Contract Drawings For

# Biosolids Composting Pilot Study

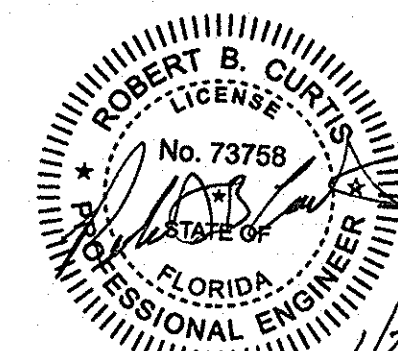
## Site Preparation

Southeast County Landfill  
Hillsborough County, Florida

Issued For Construction  
March 2015

### INDEX OF DRAWINGS

G-01	COVER SHEET
G-02	GENERAL NOTES AND LEGEND
C-01	OVERALL SITE PLAN
C-02	EXISTING CONDITIONS
C-03	SITE LAYOUT PLAN
C-04	OPERATIONS SITE PLAN
C-05	SECTIONS
C-06	DETAILS

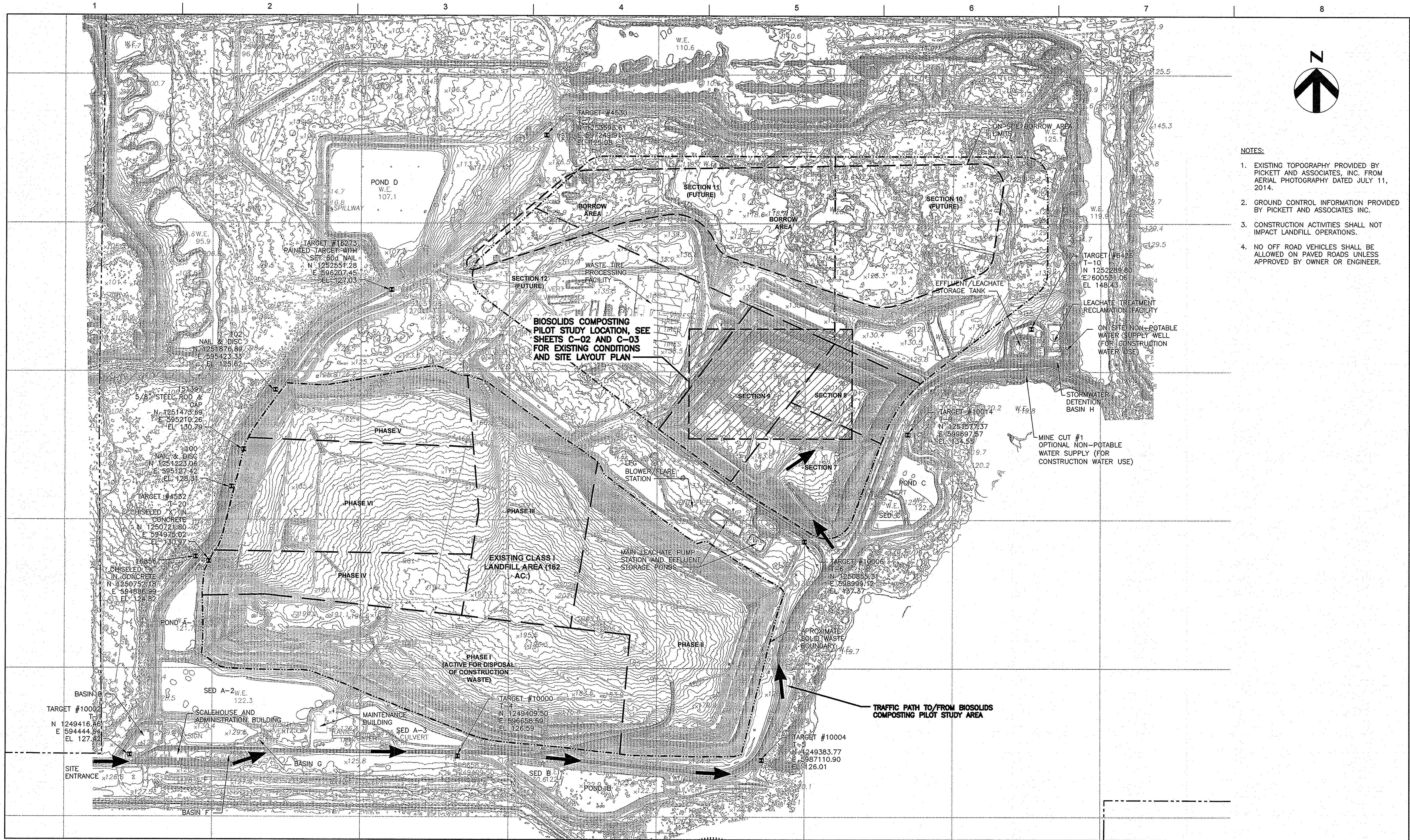


ROBERT B. CURTIS, P.E.  
LICENSE NO. 73758  
HDR CA# 4213

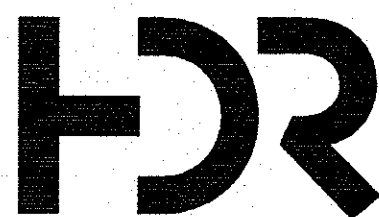
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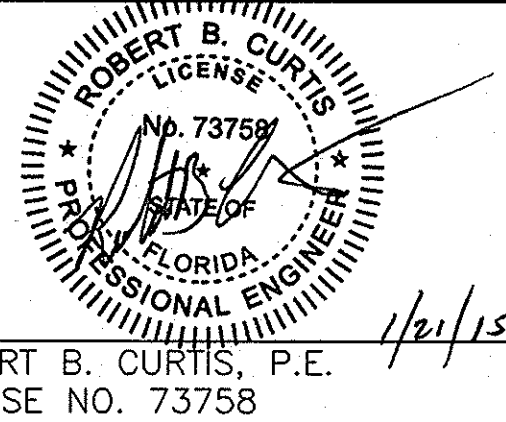
- NOTES:
- EXISTING TOPOGRAPHY PROVIDED BY PICKETT AND ASSOCIATES, INC. FROM AERIAL PHOTOGRAPHY DATED JULY 11, 2014.
  - GROUND CONTROL INFORMATION PROVIDED BY PICKETT AND ASSOCIATES INC.
  - CONSTRUCTION ACTIVITIES SHALL NOT IMPACT LANDFILL OPERATIONS.
  - NO OFF ROAD VEHICLES SHALL BE ALLOWED ON PAVED ROADS UNLESS APPROVED BY OWNER OR ENGINEER.



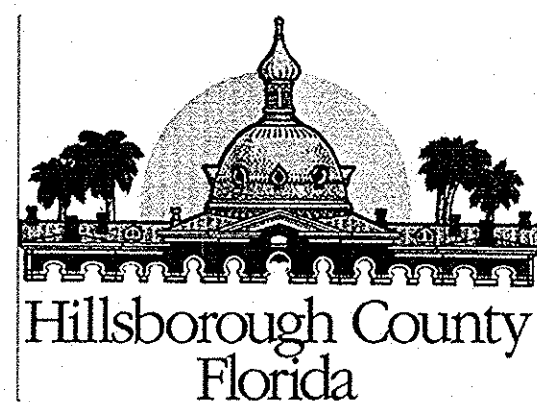
HDR Engineering, Inc.  
5426 Bay Center Drive  
Suite 400  
Tampa, FL 33609-3444  
HDR CA# 4213

A	MARCH 2015	ISSUED FOR CONSTRUCTION
ISSUE	DATE	DESCRIPTION

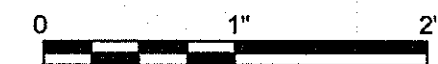
PROJECT MANAGER	R. SIEMERING
REVIEWED BY	C. RESTREPO
CIVIL DESIGN BY	R. CURTIS
DRAWN BY	B. JOHNSON
PROJECT NUMBER	0100-243250-001



ROBERT B. CURTIS, P.E.  
LICENSE NO. 73758



## BIOSOLIDS COMPOSTING PILOT STUDY SITE PREPARATION



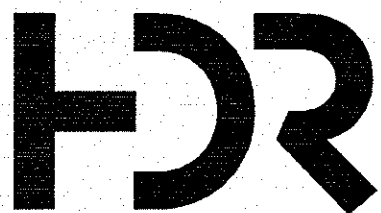
## OVERALL SITE PLAN

FILENAME C-02.DWG  
SCALE 1"=500'

SHEET  
C-01



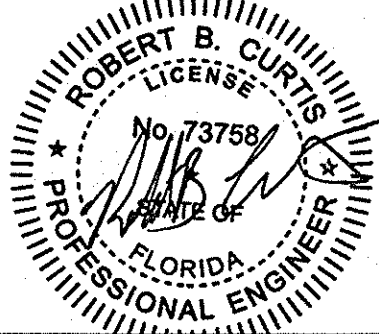
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Suite 400  
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HDR CA# 4213

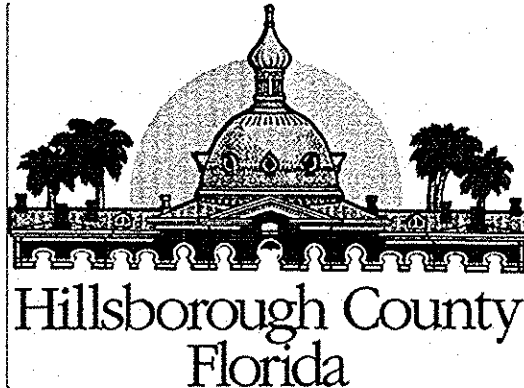
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REVIEWED BY	C. RESTREPO
CIVIL DESIGN BY	R. CURTIS
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PROJECT NUMBER	0100-243250-001



ROBERT B. CURTIS, P.E.  
LICENSE NO. 73758

1/21/15



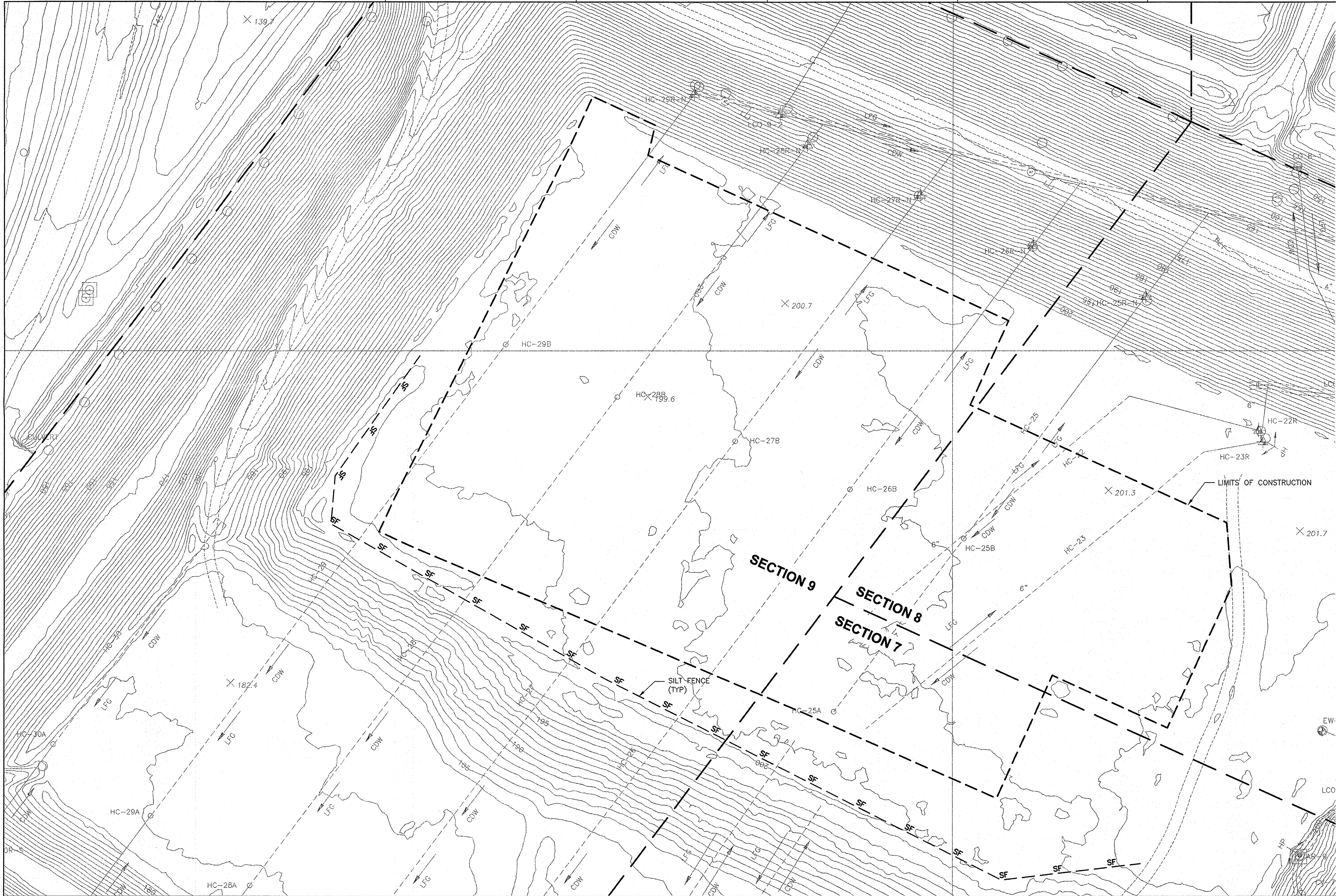
BIOSOLIDS COMPOSTING  
PILOT STUDY  
SITE PREPARATION



FILENAME C-02.DWG  
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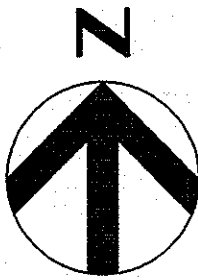
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C-02

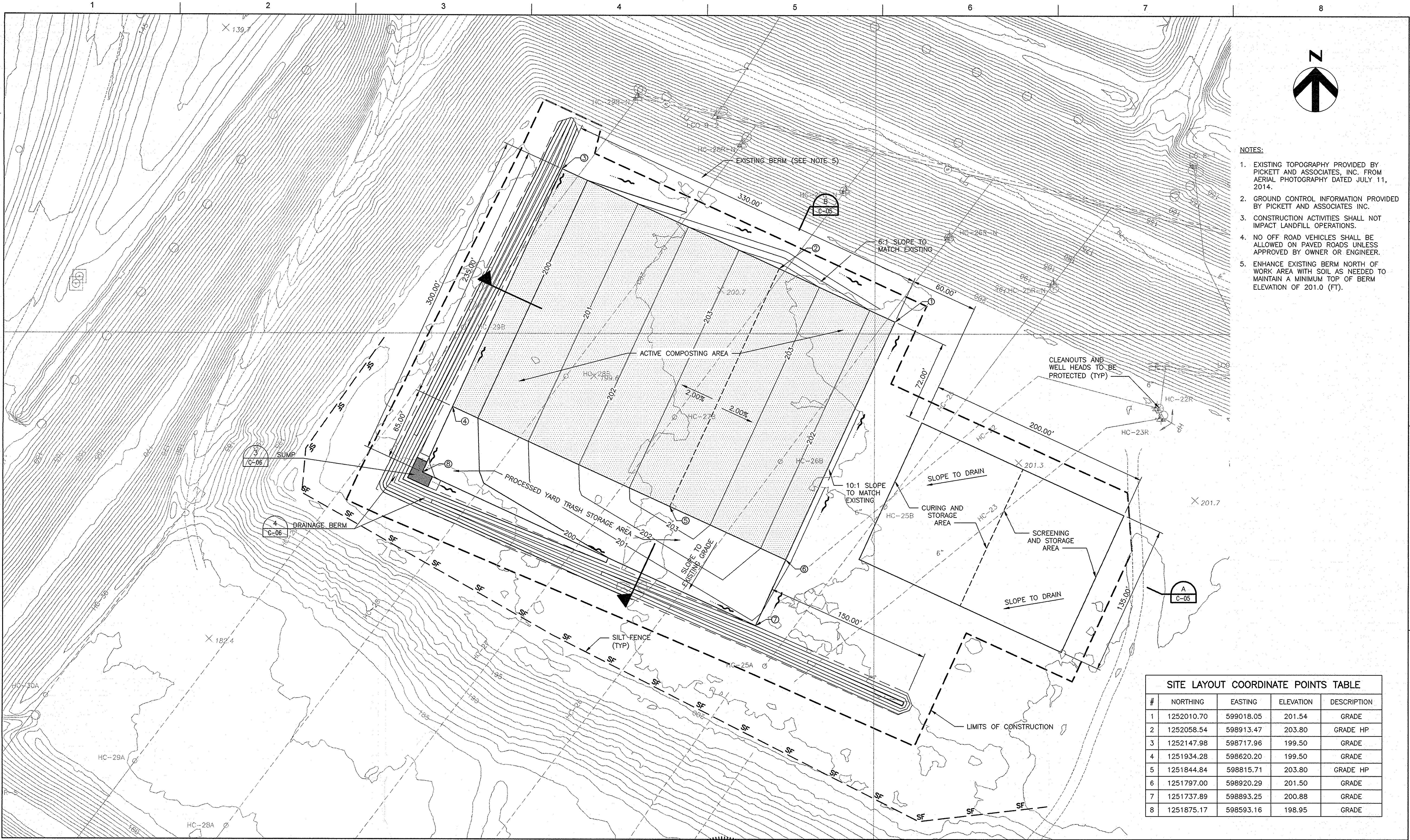


NOTES:

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- NO OFF ROAD VEHICLES SHALL BE ALLOWED ON PAVED ROADS UNLESS APPROVED BY OWNER OR ENGINEER.
- LFG PIPING SHOWN FOR REFERENCE. PIPING AND VAVLES DEPTH GREATER THAN 5 FEET BELOW GRADES SHOWN.

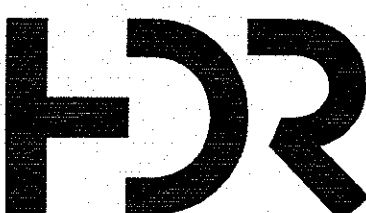






- NOTES:
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  3. CONSTRUCTION ACTIVITIES SHALL NOT IMPACT LANDFILL OPERATIONS.
  4. NO OFF ROAD VEHICLES SHALL BE ALLOWED ON PAVED ROADS UNLESS APPROVED BY OWNER OR ENGINEER.
  5. ENHANCE EXISTING BERM NORTH OF WORK AREA WITH SOIL AS NEEDED TO MAINTAIN A MINIMUM TOP OF BERM ELEVATION OF 201.0 (FT).

SITE LAYOUT COORDINATE POINTS TABLE				
#	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1252010.70	599018.05	201.54	GRADE
2	1252058.54	598913.47	203.80	GRADE HP
3	1252147.98	598717.96	199.50	GRADE
4	1251934.28	598620.20	199.50	GRADE
5	1251844.84	598815.71	203.80	GRADE HP
6	1251797.00	598920.29	201.50	GRADE
7	1251737.89	598893.25	200.88	GRADE
8	1251875.17	598593.16	198.95	GRADE

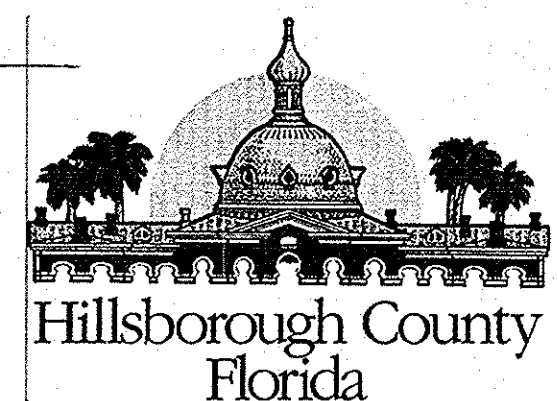


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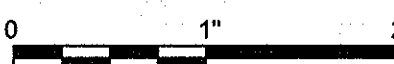
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REVIEWED BY	C. RESTREPO
CIVIL DESIGN BY	R. CURTIS
DRAWN BY	B. JOHNSON
PROJECT NUMBER	0100-243250-001

ROBERT B. CURTIS, P.E.  
LICENSE NO. 73758  
1/22/15



BIOSOLIDS COMPOSTING  
PILOT STUDY  
SITE PREPARATION



FILENAME C-03.DWG  
SCALE 1"=40'

SHEET  
C-03



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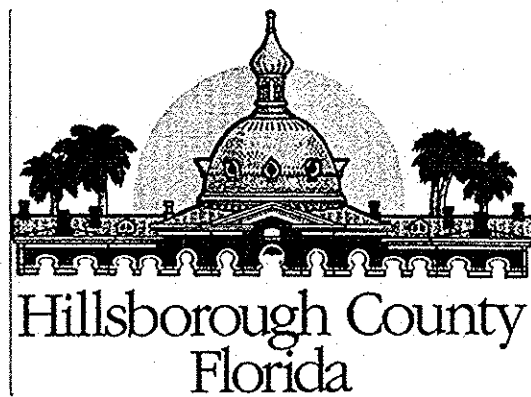


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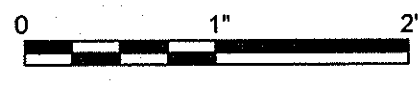
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REVIEWED BY	C. RESTREPO
CIVIL DESIGN BY	R. CURTIS
DRAWN BY	B. JOHNSON
PROJECT NUMBER	0100-243250-001

ROBERT B. CURTIS  
LICENSE NO. 73758  
1/21/15  
PROFESSIONAL ENGINEER  
FLORIDA  
ROBERT B. CURTIS, P.E.  
LICENSE NO. 73758



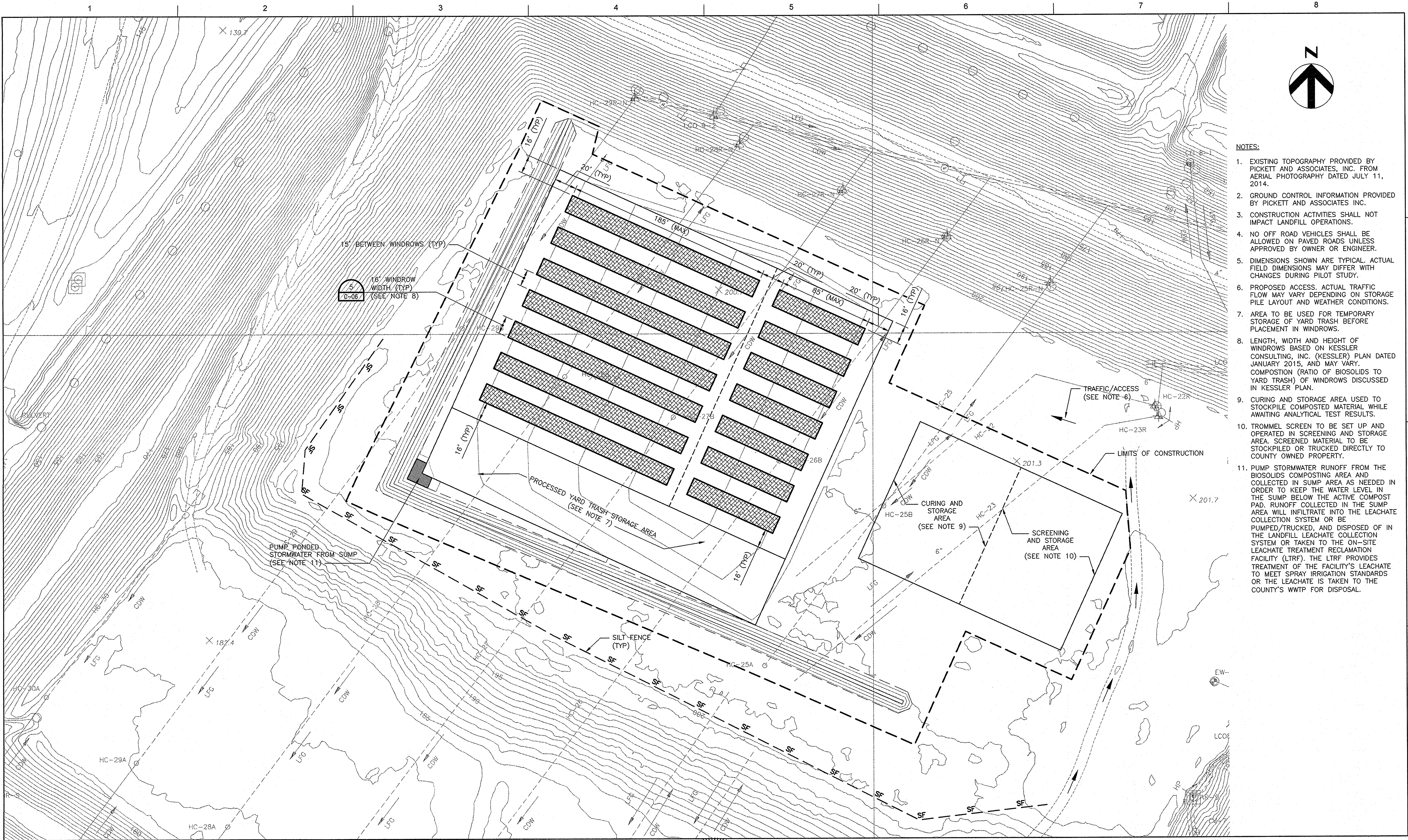
BIOSOLIDS COMPOSTING  
PILOT STUDY  
SITE PREPARATION



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SHEET

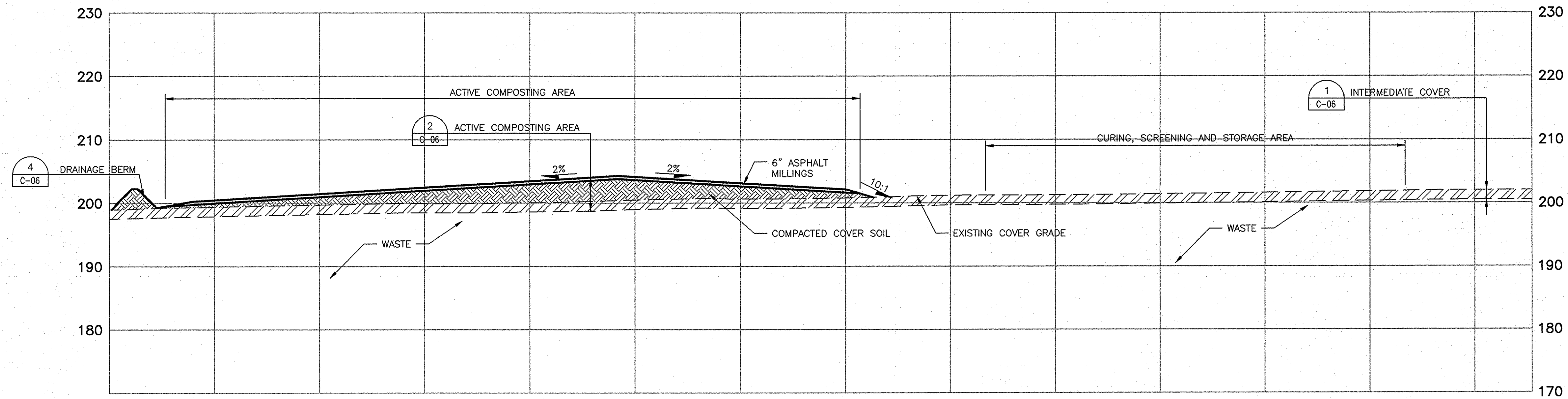
C-04



NOTES:

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- GROUND CONTROL INFORMATION PROVIDED BY PICKETT AND ASSOCIATES INC.
- CONSTRUCTION ACTIVITIES SHALL NOT IMPACT LANDFILL OPERATIONS.
- NO OFF ROAD VEHICLES SHALL BE ALLOWED ON PAVED ROADS UNLESS APPROVED BY OWNER OR ENGINEER.
- DIMENSIONS SHOWN ARE TYPICAL. ACTUAL FIELD DIMENSIONS MAY DIFFER WITH CHANGES DURING PILOT STUDY.
- PROPOSED ACCESS. ACTUAL TRAFFIC FLOW MAY VARY DEPENDING ON STORAGE PILE LAYOUT AND WEATHER CONDITIONS.
- AREA TO BE USED FOR TEMPORARY STORAGE OF YARD TRASH BEFORE PLACEMENT IN WINDROWS.
- LENGTH, WIDTH AND HEIGHT OF WINDROWS BASED ON KESSLER CONSULTING, INC. (KESSLER) PLAN DATED JANUARY 2015, AND MAY VARY. COMPOSITION (RATIO OF BIOSOLIDS TO YARD TRASH) OF WINDROWS DISCUSSED IN KESSLER PLAN.
- CURING AND STORAGE AREA USED TO STOCKPILE COMPOSTED MATERIAL WHILE AWAITING ANALYTICAL TEST RESULTS.
- TROMMEL SCREEN TO BE SET UP AND OPERATED IN SCREENING AND STORAGE AREA. SCREENED MATERIAL TO BE STOCKPILED OR TRUCKED DIRECTLY TO COUNTY OWNED PROPERTY.
- PUMP STORMWATER RUNOFF FROM THE BIOSOLIDS COMPOSTING AREA AND COLLECTED IN SUMP AREA AS NEEDED IN ORDER TO KEEP THE WATER LEVEL IN THE SUMP BELOW THE ACTIVE COMPOST PAD. RUNOFF COLLECTED IN THE SUMP AREA WILL INFILTRATE INTO THE LEACHATE COLLECTION SYSTEM OR BE PUMPED/TRUCKED, AND DISPOSED OF IN THE LANDFILL LEACHATE COLLECTION SYSTEM OR TAKEN TO THE ON-SITE LEACHATE TREATMENT RECLAMATION FACILITY (LTRF). THE LTRF PROVIDES TREATMENT OF THE FACILITY'S LEACHATE TO MEET SPRAY IRRIGATION STANDARDS OR THE LEACHATE IS TAKEN TO THE COUNTY'S WWTP FOR DISPOSAL.

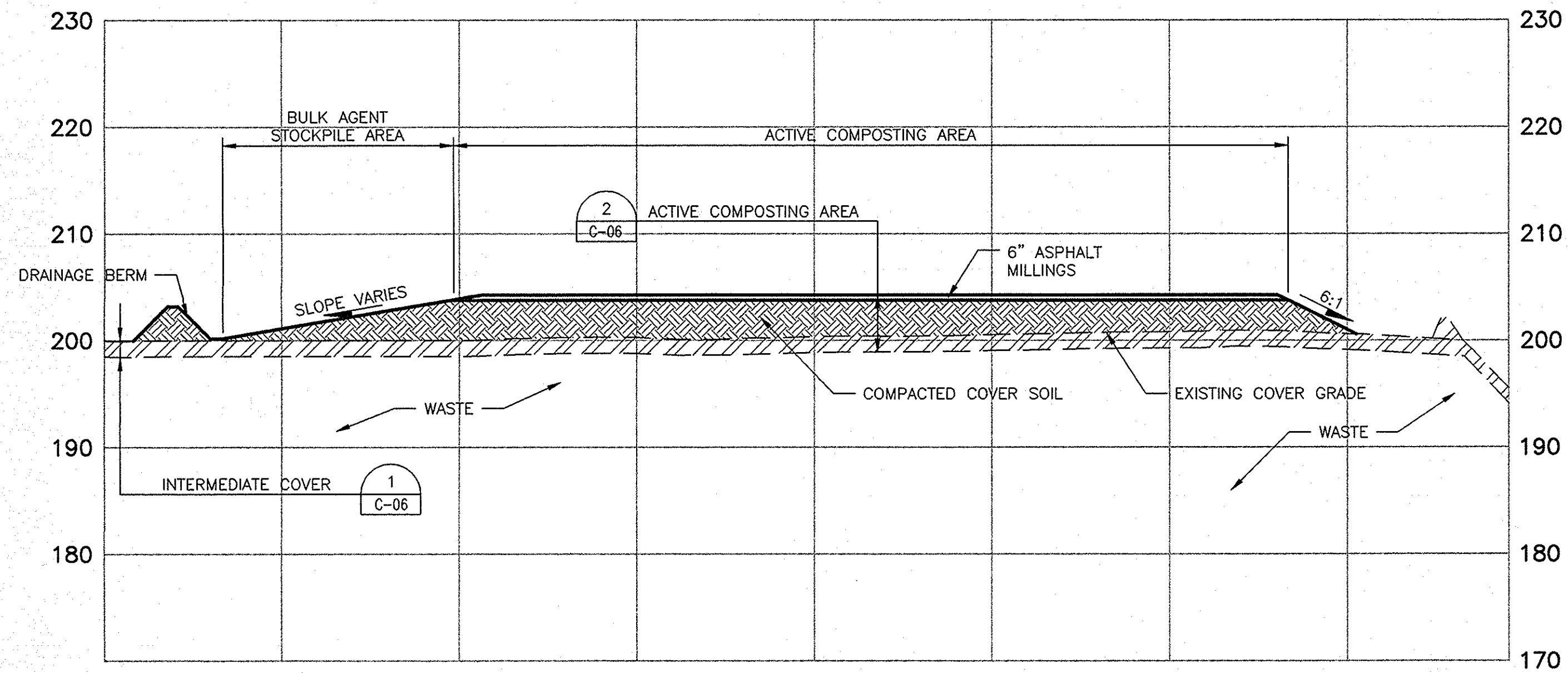




SECTION A  
1"=30' HORIZ, 1"=10' VERT. C-03

NOTES:

1. EXISTING TOPOGRAPHY PROVIDED BY PICKETT AND ASSOCIATES, INC. FROM AERIAL PHOTOGRAPHY DATED JULY 11, 2014.



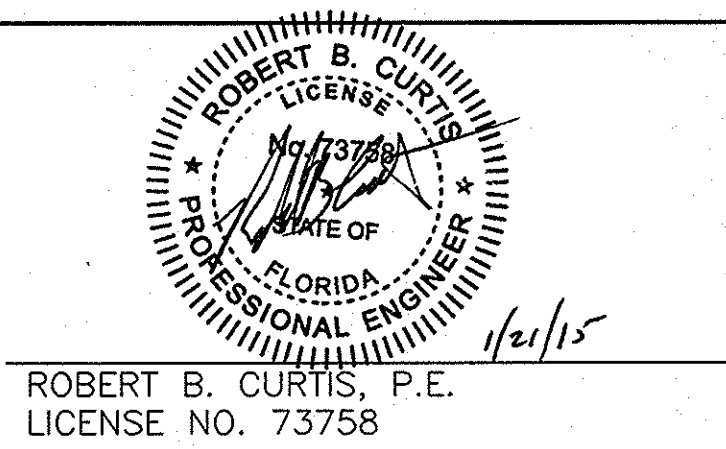
SECTION B  
1"=30' HORIZ, 1"=10' VERT. C-03



HDR Engineering, Inc.  
5426 Bay Center Drive  
Suite 400  
Tampa, FL 33609-3444  
HDR CA# 4213

ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	R. SIEMERING
REVIEWED BY	C. RESTREPO
CIVIL DESIGN BY	R. CURTIS
DRAWN BY	B. JOHNSON
PROJECT NUMBER	0100-243250-001



BIOSOLIDS COMPOSTING  
PILOT STUDY  
SITE PREPARATION



FILENAME C-05.DWG  
SCALE AS SHOWN

SHEET  
C-05

CONSTRUCTION SPECIFICATIONS

1.1 SOILS/GEOTECHNICAL

- A. THE OWNER WILL PROVIDE FOR THE ON-SITE SERVICES OF A COA INSPECTOR TO SELECTIVELY TEST MATERIALS AND MONITOR COMPLIANCE WITH THE REQUIREMENTS OF THESE SPECIFICATIONS.
- B. THE CONTRACTOR WILL AFFORD THESE REPRESENTATIVES ACCESS TO THE JOB SITE FOR THE PERFORMANCE OF THEIR DUTIES.
- C. THE CONTRACTOR SHALL GIVE MINIMUM OF 24-HOUR ADVANCE NOTICE TO ENGINEER WHEN READY FOR COMPACTION OR SUBGRADE TESTING AND INSPECTION.

1.2 MATERIALS

- A. COVER SOIL- MATERIALS (ONLY) PROVIDED BY OWNER AND SHOULD BE FREE OF DELETERIOUS MATERIAL (STICKS, ROOTS, WASTE, ETC.) AND ROCK FRAGMENTS, BOULDERS, OR COBBLES GREATER THAN 1/2 INCHES IN SIZE. SOILS SHALL BE OBTAINED FROM THE EXCAVATION OF CLEAN SOILS FROM THE DESIGNATED ON-SITE BORROW AREA.
- B. MILLINGS: PROVIDED BY OTHERS SHOULD BE RECYCLED ASPHALT PAVEMENT (RAP) MILLED OR CRUSHED WITH AT LEAST 97% PASSING THE 3-1/2" SIEVE AND GRADED UNIFORMLY DOWN TO DUST. TO BE PROVIDED BY OWNER.
- C. TIRE CHIPS: MATERIALS (ONLY) SHALL BE PROVIDED BY OWNER.
- D. ALL HANDLING (EXCAVATION, HAULING, STOCKPILING, ETC.) WILL BE COMPLETED BY THE CONTRACTOR.

1.3 SITE EXCAVATION, STOCKPILING, BACKFILLING, COMPACTION, AND GRADING

- A. THE WORK INCLUDES ALL OPERATIONS IN CONNECTION WITH EXCAVATION, BORROW, BACKFILLING, CONSTRUCTION OF COVER SOIL AND MILLING LAYERS, ROUGH GRADING, AND DISPOSAL OF EXCESS MATERIALS IN CONNECTION WITH THE PREPARATION OF THE SITE(S) FOR CONSTRUCTION OF THE WORK.
- B. EXCAVATION AND GRADING: PERFORM AS REQUIRED BY THE CONTRACT DRAWINGS.
1. CONTRACT DRAWINGS MAY INDICATE BOTH EXISTING GRADE AND FINISHED GRADE REQUIRED FOR CONSTRUCTION OF PROJECT.
- a. STAKE ALL UNITS, STRUCTURES, PIPING, ROADS, AND ESTABLISH THEIR ELEVATIONS.
- b. PERFORM OTHER LAYOUT WORK REQUIRED.
- c. REPLACE PERMANENT SURVEY MARKERS TO ORIGINAL LOCATION IF DISTURBED OR DESTROYED.
2. PREPARATION OF GROUND SURFACE FOR COVER SOIL LAYER:
- a. BEFORE COVER SOIL LAYER IS PLACED, REMOVE VEGETATION AND UNSUITABLE SOILS.
- b. EXISTING VEGETATION AND CLEAN SOIL STRIPPED FROM THE EXISTING INTERMEDIATE COVER WILL BE STOCKPILED FOR REUSE. IF THE SOD/SOIL CONTAINS CLASS I WASTE OR APPEARS TO CONTAIN LEACHATE, THE MATERIAL MUST BE HANDLED AS EXCAVATED WASTE MATERIAL AND TAKEN TO THE ACTIVE WASTE FILLING AREA.
- c. STOCKPILED CLEAN SOD/SOIL MAY BE TESTED AND IF IT IS APPROVED BY THE ENGINEER AND MEETS THE REQUIREMENTS FOR COVER SOIL, THE MATERIAL MAY BE USED BY THE CONTRACTOR.
- C. INSTALLATION OF COVER SOIL AS REQUIRED BY THE CONTRACT DRAWINGS:
1. INSTALL COVER SOIL TO MINIMUM THICKNESSES AND GRADES SHOWN ON THE CONTRACT DRAWINGS. GRADE TO SMOOTH TRUE LINES APPROVED BY ENGINEER WITH NO SOFT SPOTS OR UNCOMPACTED AREAS. TOP OF FINAL COVER ELEVATIONS SHALL NOT EXCEED THE DESIGN ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.
2. PROVIDE APPROVED FILL MATERIAL:
- a. DO NOT PLACE MATERIAL IN LAYERS GREATER THAN A 12-INCH LOOSE THICKNESS.
- b. LIFT THICKNESS SHALL BE AT THE DISCRETION OF THE ENGINEER.
3. COMPACT BY SHEEPSFOOT, DOZER, PNEUMATIC ROLLERS, VIBRATORS, OR BY OTHER EQUIPMENT AS REQUIRED TO OBTAIN SPECIFIED DENSITY.
- a. CONTROL MOISTURE FOR EACH LAYER NECESSARY TO MEET REQUIREMENTS OF COMPACTION.

4. UPON REACHING THE REQUIRED COMPACTED THICKNESS OF COVER SOIL LAYER, PROOF ROLL AND OBTAIN THE ENGINEER'S REVIEW/RECOMMENDATION AND APPROVAL. IF UNSUITABLE MATERIALS ARE ENCOUNTERED, REPAIR AS DIRECTED AND APPROVED BY THE ENGINEER TO REMOVE UNSUITABLE MATERIALS.
5. PROOF ROLLING SHALL BE CONDUCTED WITH A 10-TON DRUM ROLLER APPROVED BY THE ENGINEER. AN ALTERNATE APPROVED BY THE ENGINEER MAY BE USED IN CONSTRICTED AREAS.
6. WHERE COVER SOIL LAYER MATERIALS ARE DETERMINED TO BE UNSUITABLE, SUCH MATERIALS SHALL BE REMOVED TO THE LENGTHS, WIDTHS, AND DEPTHS DIRECTED BY THE ENGINEER, AND BACKFILLED WITH SUITABLE MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS REQUIRED. ADDITIONAL PAYMENT WILL BE MADE FOR EXCAVATION AND REPLACEMENT OF COVER SOIL LAYER EXCEPT FOR MATERIAL PREVIOUSLY PLACED BY CONTRACTOR THAT DID NOT MEET PROJECT SPECIFICATIONS.
- D. DEWATERING (AS REQUIRED): PROVIDE AND MAINTAIN DEWATERING OF ALL SURFACE WATER AND/OR GROUNDWATER AS REQUIRED FOR EXCAVATION. WHERE GROUNDWATER IS EXPECTED TO BE ENCOUNTERED DURING BORROW AREA EXCAVATION, INSTALL A DEWATERING SYSTEM TO PREVENT SOFTENING AND DISTURBANCE OF EXCAVATION, ALLOW BORROW MATERIAL TO BE EXCAVATED DRY, AND MAINTAIN A STABLE EXCAVATION.
- E. DO NOT PLACE FILL WHEN THE UNDERLYING MATERIAL IS FROZEN, WET, LOOSE, OR SOFT.
- F. MOISTURE CONTROL:
1. MOISTURE CONTENT OF MATERIALS PRIOR TO, AND DURING COMPACTION, SHALL BE UNIFORM THROUGHOUT EACH LAYER OF MATERIAL.
2. GRANULAR MATERIALS SHALL BE THOROUGHLY WETTED DURING OR IMMEDIATELY PRIOR TO COMPACTION.
3. SUPPLEMENTARY WATER SHALL BE ADDED AS REQUIRED TO MATERIALS BY SPRINKLING AND MIXING UNIFORMLY THROUGHOUT LAYER.
4. MATERIALS TOO WET FOR PLACING SHALL BE TEMPORARILY SPREAD OR AERATED UNTIL MOISTURE CONTENT IS ACCEPTABLE. IF THESE MATERIALS CANNOT BE PROCESSED IN TIME TO USE, THE CONTRACTOR SHALL FIND ALTERNATIVES ACCEPTABLE TO THE ENGINEER.
- G. INSTALLATION OF MILLINGS AS REQUIRED BY THE CONTRACT DRAWINGS:
1. INSTALL ASPHALT MILLINGS TO MINIMUM THICKNESSES AND GRADES SHOWN ON THE CONTRACT DRAWINGS. GRADE TO SMOOTH TRUE LINES APPROVED BY ENGINEER WITH NO SOFT SPOTS OR UNCOMPACTED AREAS.
2. LIFT THICKNESS SHALL BE AT THE DISCRETION OF THE ENGINEER.
3. COMPACT BY DOZER, PNEUMATIC ROLLERS, VIBRATORS, OR BY OTHER EQUIPMENT AS REQUIRED TO OBTAIN SPECIFIED DENSITY.
4. UPON REACHING THE REQUIRED COMPACTED THICKNESS OF ASPHALT MILLINGS, PROOF ROLL AND OBTAIN THE ENGINEER'S REVIEW/RECOMMENDATION AND APPROVAL. IF UNSUITABLE MATERIALS ARE ENCOUNTERED, REPAIR AS DIRECTED AND APPROVED BY THE ENGINEER TO REMOVE UNSUITABLE MATERIALS.
5. PROOF ROLLING SHALL BE CONDUCTED WITH A 10-TON DRUM ROLLER APPROVED BY THE ENGINEER. AN ALTERNATE APPROVED BY THE ENGINEER MAY BE USED IN CONSTRICTED AREAS.

1.4 FIELD QUALITY CONTROL

- A. MOISTURE DENSITY RELATIONS, TO BE ESTABLISHED BY THE OWNER ARE REQUIRED FOR ALL MATERIALS TO BE COMPACTED.
- B. EXTENT OF COMPACTION TESTING WILL BE AS NECESSARY TO ASSURE COMPLIANCE WITH SPECIFICATIONS.
- C. GIVE MINIMUM OF 24-HOUR ADVANCE NOTICE TO ENGINEER WHEN READY FOR COMPACTION OR SUBGRADE TESTING AND INSPECTION.
- D. SHOULD ANY COMPACTION DENSITY TEST, SUBGRADE INSPECTION, OR OTHER QA/QC PROBLEM BE IDENTIFIED, THE AFFECTED AREA SHALL BE DELINEATED AND REWORKED BY

CONTRACTOR AS NECESSARY TO ACHIEVE PASSING CRITERIA.

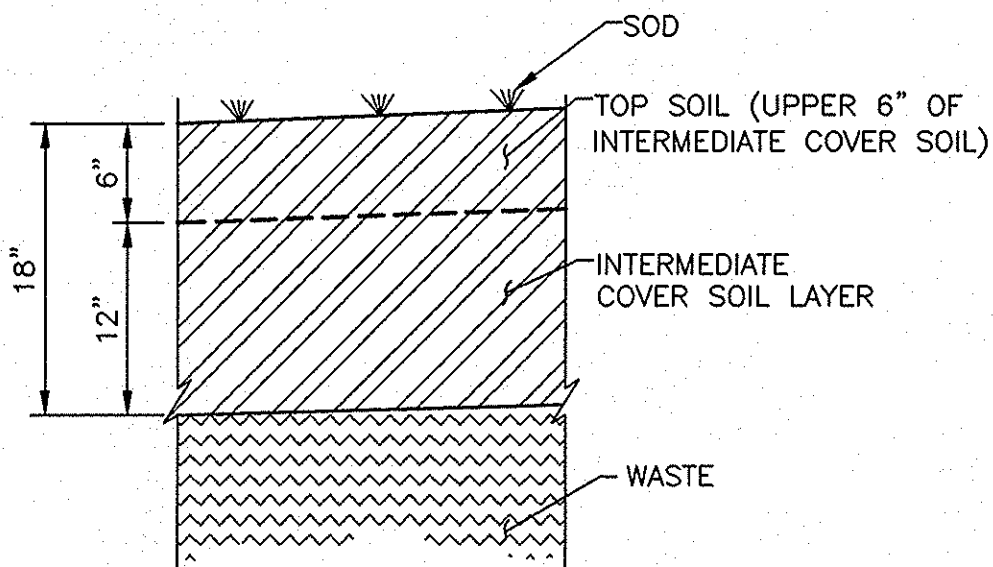
- E. CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE WORK AND RETESTING RESULTING FROM FAILED TESTS.

1.5 COMPACTION DENSITY REQUIREMENTS

- A. OBTAIN APPROVAL FROM ENGINEER WITH REGARD TO SUITABILITY OF SOILS AND ACCEPTABLE SUBGRADE PRIOR TO SUBSEQUENT OPERATIONS.
- B. PROVIDE DEWATERING SYSTEM NECESSARY TO SUCCESSFULLY COMPLETE COMPACTION AND CONSTRUCTION REQUIREMENTS.
- C. REMOVE FROZEN, LOOSE, WET, OR SOFT MATERIAL AND REPLACE WITH APPROVED MATERIAL AS DIRECTED BY ENGINEER.
- D. STABILIZE SUBGRADE WITH APPROVED MATERIALS AS DIRECTED BY ENGINEER.
- E. COVER SOIL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. ASPHALT MILLINGS SHALL BE COMPACTED TO 92% MODIFIED PROCTOR. THE SOILS SHALL BE WETTED OR DRIED AS NECESSARY SO THAT THE MOISTURE CONTENT DURING COMPACTION IS NEAR THE OPTIMUM MOISTURE CONTENT TO CONSISTENTLY ACHIEVE TARGET COMPACTION, OR AS OTHERWISE DETERMINED BY ENGINEER.
- F. PERFORM TESTING AT A MINIMUM FREQUENCY AS SHOWN BELOW:

TEST DESCRIPTION	TEST FREQUENCY
1. COVER SOIL	
DENSITY, NUCLEAR METHOD	1 PER 2,000 YD <sup>3</sup> , ASTM D6938
MOISTURE CONTENT, NUCLEAR METHOD	1 PER 2,000 YD <sup>3</sup> , ASTM D6938
SAND CONE OR DRIVE CYLINDER METHOD	1 PER 2 NUCLEAR TESTS, ASTM D2937
OVEN MOISTURE CONTENT VERIFICATION	1 PER 2 NUCLEAR TESTS, ASTM D2216
MOISTURE DENSITY RELATIONS	1 PER 2,000 YD <sup>3</sup> , ASTM D698*
SIEVE ANALYSIS	1 PER 2,000 YD <sup>3</sup> , ASTM D421*
2. RECYCLED ASPHALT PAVEMENT	
DENSITY, NUCLEAR METHOD	1 PER 1,000 YD <sup>3</sup> , ASTM D6938
MOISTURE CONTENT, NUCLEAR METHOD	1 PER 1,000 YD <sup>3</sup> , ASTM D6938
MOISTURE DENSITY RELATIONS	1 PER SOURCE, ASTM D1557*
SIEVE ANALYSIS	1 PER SOURCE, ASTM D421*

\* INCREASE FREQUENCY AS NEEDED TO ENSURE EACH SOIL TYPE IS TESTED.



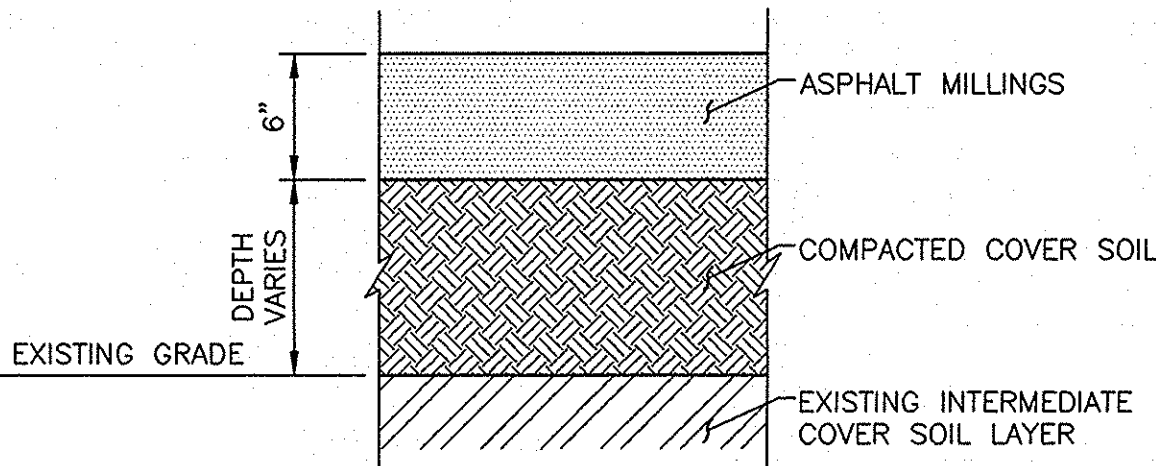
NOTE:

SOIL AVAILABLE ON SITE.

INTERMEDIATE COVER DETAIL

NOT TO SCALE

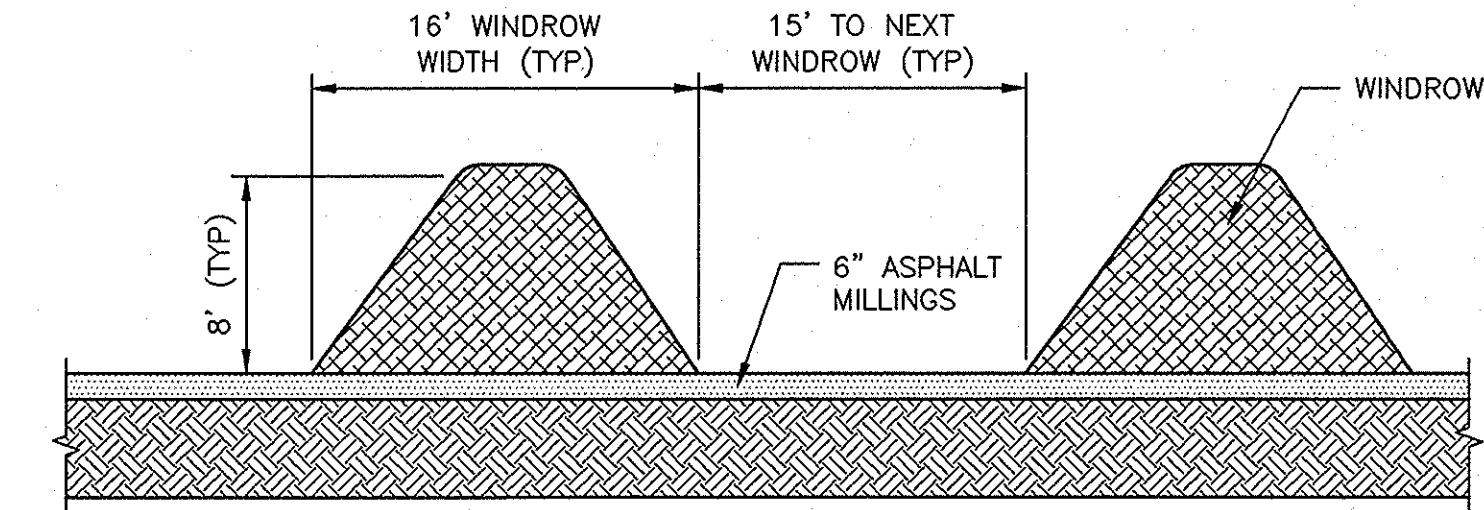
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C-05



ACTIVE COMPOSTING AREA  
TYPICAL SECTION

NOT TO SCALE

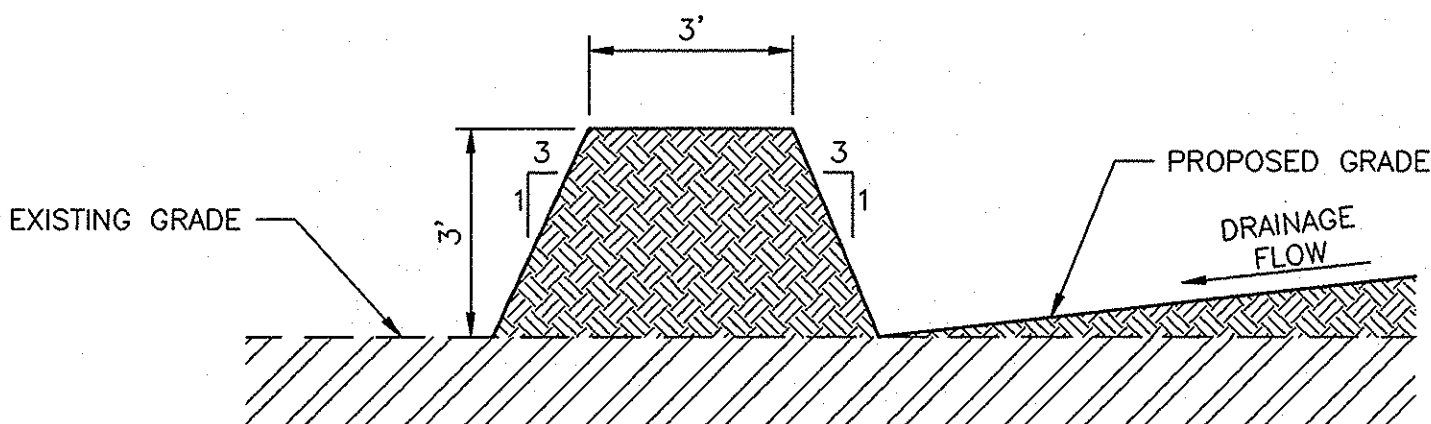
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C-05



TYPICAL WINDROW

NOT TO SCALE

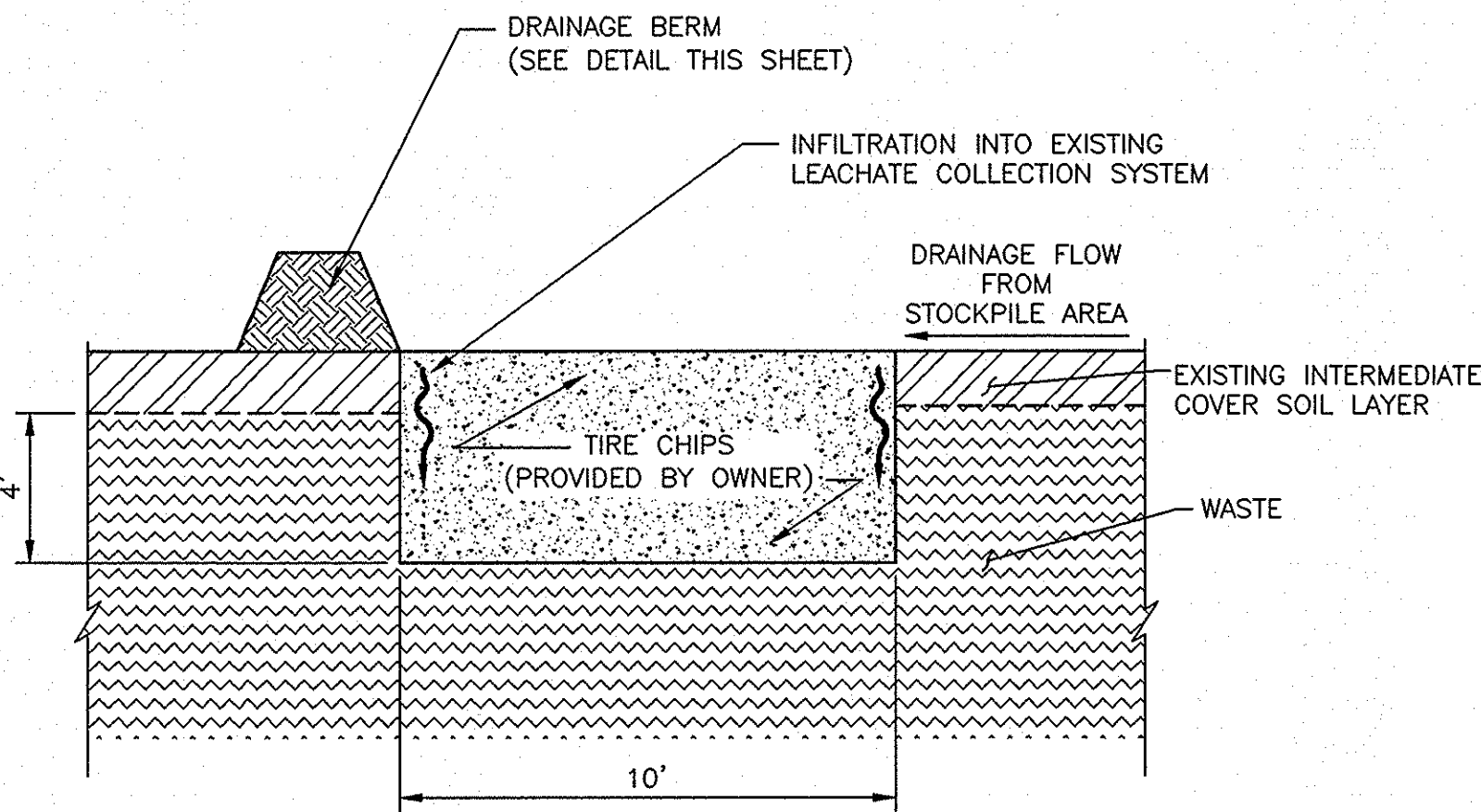
5  
C-04



DRAINAGE BERM

NOT TO SCALE

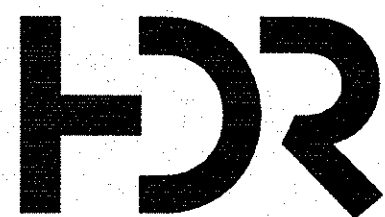
4  
C-03



SUMP

NOT TO SCALE

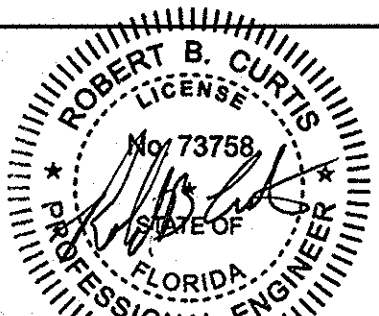
3  
C-03



HDR Engineering, Inc.  
5426 Bay Center Drive  
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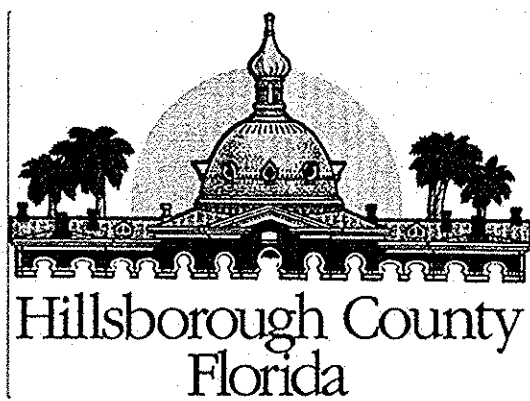
ISSUE	DATE	DESCRIPTION
A	MARCH 2015	ISSUED FOR CONSTRUCTION

PROJECT MANAGER	R. SIEMERING
REVIEWED BY	C. RESTREPO
CIVIL DESIGN BY	R. CURTIS
DRAWN BY	B. JOHNSON
PROJECT NUMBER	0100-243250-001

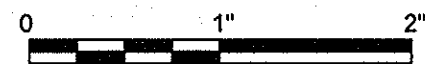


ROBERT B. CURTIS, P.E.  
LICENSE NO. 73758

1/21/15



BIOSOLIDS COMPOSTING  
PILOT STUDY  
SITE PREPARATION



DETAILS

FILENAME	C-06.DWG
SCALE	AS SHOWN

SHEET

C-06