



January 26, 2015



Cory D. Dilmore, P.E.
Professional Engineer III
FDEP Permitting and Compliance
Assistance Program
2600 Blair Stone Road, MS 4565
Tallahassee, FL 32399

Re: Minor Permit Modification
North Cell Phase II Expansion-Area 3
Tomoka Farms Road Landfill WACS # 27540
Volusia County, Florida

Dear Mr. Dilmore,

On behalf of Volusia County, HDR is submitting the Minor Permit Modification to the Construction Permit #SC64-0078767-029 to add an underliner dewatering system as part of the construction for the Area 3 landfill expansion project. Part A of form FAC 62-701.900(1) is included in Attachment A. The application fee (\$250) per FAC 62 701.315 (1)(a) will be paid online by HDR on behalf of the Owner once FDEP logs the project into the system. As requested per email from FDEP on December 12, 2014, HDR has included a brief summary below of the proposed minor modification.

The original construction permit application for Areas 1 through 4 expansions at the Tomoka Farms Road Landfill was submitted to FDEP in May 2002. On December 02, 2002 FDEP issued the permit # SC64-0078767-014. Based on this permit the bottom of the leachate collection and detection sump is located at elevation 12-feet. The 2002 permit drawings do not specify the bottom elevation of the groundwater collection sump. In August, 2012 HDR modified some of the construction details associated with Areas 3 and 4 in the construction-level design and submitted them to FDEP for approval together with the construction permit renewal application. The permit renewal approval was received by Volusia County on January 29, 2013.

In compliance with the currently permitted design, HDR has prepared a bid package for the construction of Area 3. In order to lower the groundwater elevation below the bottom of the leachate sump, a ground water collection sump is currently proposed at an 11-foot elevation. During construction, groundwater dewatering sump could be placed anywhere between 9-foot and 11-foot elevation. It should be noted that currently certified Areas 1 and 2 have a groundwater dewatering sump located at a 9-foot elevation.

In addition, the proposed design for Area 3 includes a 6-inch HDPE perforated pipe as shown in Sheet 00C-08 that runs from the south to the north end of the cell. Sheet 00C-13 depicts several sections that include the dewatering trench. This perforated dewatering pipe is added to facilitate compaction of the subbase layer to avoid pumping of the subbase during construction. More information about this pipe can be found in Sheets 01C-02 and Detail C of 01C-03. The referenced sheets are included in Attachment B.

The primary purpose of the underliner dewatering pipe network is to prevent floating of the Subtitle D liner system in case the groundwater elevation increases above the geosynthetic liner elevation. This is an additional precaution for Dewatering Ponds A and B where the bottom of the pond is located at 12-feet. Similar to Dewatering Ponds A and B, the underliner dewatering system will also be abandoned in place upon reaching predetermined waste heights.

Volusia County Council will be awarding a construction contract for Area 3 Expansion on February 5, 2014 and would appreciate if FDEP could expedite reviewing/approving this permit modification process. If you have any questions or comments, please contact Kanishka Perera at (904) 598-8978 or Leonard Marion at (386) 947-2952 or lm Marion@co.volusia.fl.us.

Sincerely,
HDR Engineering, Inc.



Kanishka Perera, PE
Project Manager



Mark Roberts, PE
Senior Project Manager

Cc: Leonard Marion; Junos Reed, PE. – Volusia County
Cliff Koenig PE – HDR Engineering

Encl.

Attachment A: Part A of form FAC 62-701.900(1)

Attachment B: Excerpts from Bid Drawings: Sheets 00C-08; 00C-13; 01C-02 and 01C-03

Appendix A

Part A of form FAC 62-701.900(1)

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE A
SOLID WASTE MANAGEMENT FACILITY**

Please Type or Print

PART A. GENERAL INFORMATION

1. Type of disposal facility (check all that apply):

- | | |
|---|--|
| <input type="checkbox"/> Class I Landfill | <input type="checkbox"/> Ash Monofill |
| <input type="checkbox"/> Class III Landfill | <input type="checkbox"/> Asbestos Monofill |
| <input type="checkbox"/> Industrial Solid Waste | |
| <input type="checkbox"/> Other (describe): | |

NOTE: Waste Processing Facilities should apply on Form 62-701.900(4), FAC;
Yard Trash Disposal Facilities should notify on Form 62-701.900(3), FAC;
Compost Facilities should apply on Form 62-709.901(1), FAC; and
C&D Disposal Facilities should apply on Form 62-701.900(6), FAC

2. Type of application:

- ☐ Construction
☐ Operation
☐ Construction/Operation
☐ Closure
☐ Long-term Care Only

3. Classification of application:

- | | |
|----------------------------------|--|
| <input type="checkbox"/> New | <input type="checkbox"/> Substantial Modification |
| <input type="checkbox"/> Renewal | <input type="checkbox"/> Intermediate Modification |
| | <input type="checkbox"/> Minor Modification |

4. Facility name: _____

5. DEP ID number: _____ County: _____

6. Facility location (main entrance):

7. Location coordinates:

Section: _____ Township: _____ Range: _____

Latitude: _____ ° _____ ' _____ " Longitude: _____ ° _____ ' _____ "

Datum: _____ Coordinate method: _____

Collected by: _____ Company/Affiliation: _____

8. Applicant name (operating authority): _____
Mailing address: _____
Street or P.O. Box City State Zip
Contact person: _____ Telephone: (____) _____
Title: _____

E-Mail address (if available) _____
9. Authorized agent/Consultant: _____
Mailing address: _____
Street or P.O. Box City State Zip
Contact person: _____ Telephone: (____) _____
Title: _____

E-Mail address (if available) _____
10. Landowner (if different than applicant): _____
Mailing address: _____
Street or P.O. Box City State Zip
Contact person: _____ Telephone: (____) _____

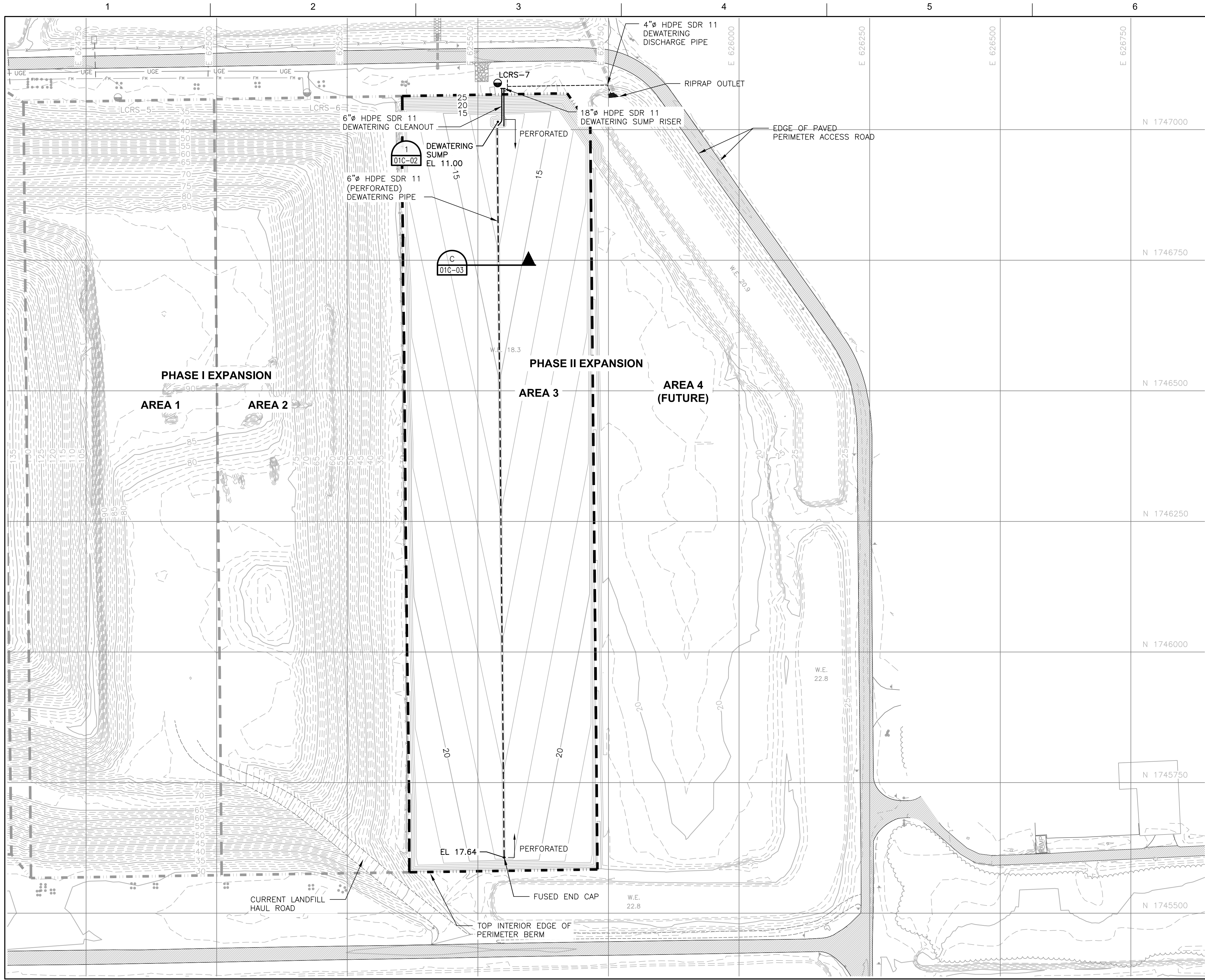
E-Mail address (if available) _____
11. Cities, towns, and areas to be served:

12. Population to be served:
Current: _____ Five-Year Projection: _____
13. Date site will be ready to be inspected for completion: _____
14. Expected life of the facility: _____ years
15. Estimated costs:
Total Construction: \$ _____ Closing Costs: \$ _____
16. Anticipated construction starting and completion dates:
From: _____ To: _____
17. Expected volume or weight of waste to be received:
_____ yds³/day _____ tons/day _____ gallons/day



Attachment B

Excerpts from Bid Drawings: Sheets 00C-08; 01C-02 and 01C-03



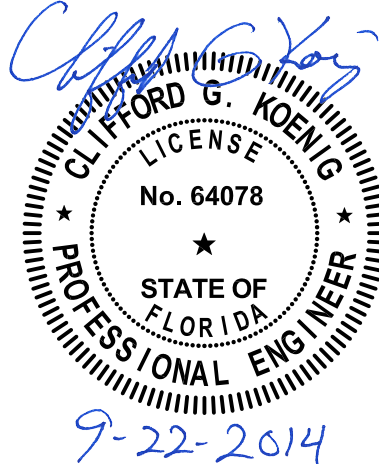
NOTE:
1. GRADES SHOWN WITHIN AREA 3 BOUNDARY ARE TOP OF SUBGRADE.



HDR ENGINEERING, INC.
200 WEST FORSYTH STREET
SUITE 800
JACKSONVILLE, FL 32202-4321
COA# 4213

ISSUE	DATE	DESCRIPTION
C	09/14	100% SUBMITTAL
B	09/14	90% SUBMITTAL
A	11/13	60% SUBMITTAL

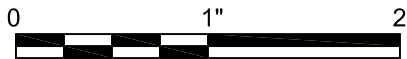
PROJECT MANAGER	C. KOENIG, P.E.
DESIGNED BY	K. PERERA P.E.
DESIGNED BY	M. AUSTIN
DRAWN BY	M. AUSTIN
DRAWN BY	L. CHAVEZ
CHECKED BY	M. ROBERTS, P.E.
PROJECT NUMBER	000000000219894



NORTH CELL PHASE II EXPANSION - AREA 3
TOMOKA FARMS ROAD LANDFILL
VOLUSIA COUNTY, FLORIDA

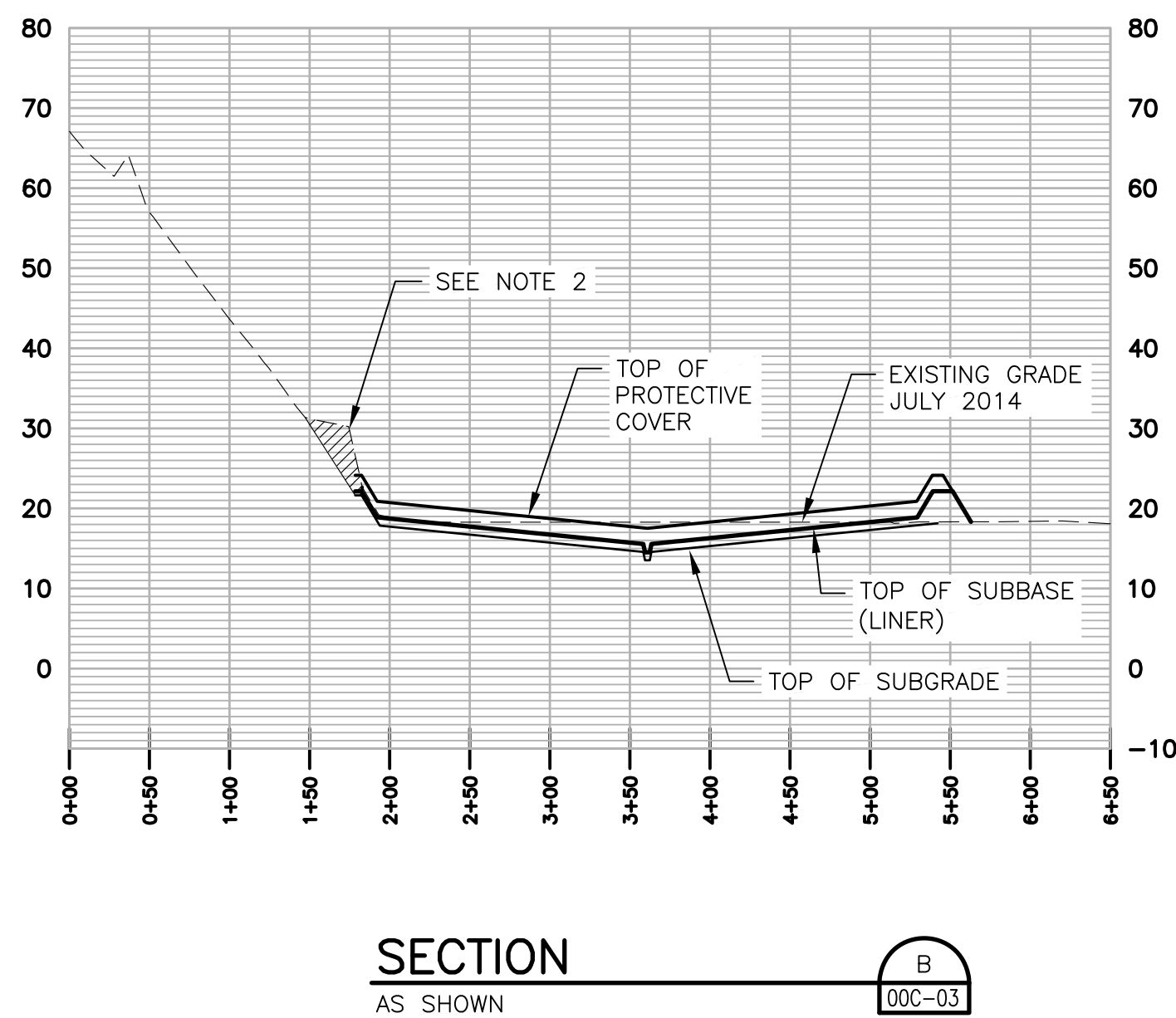
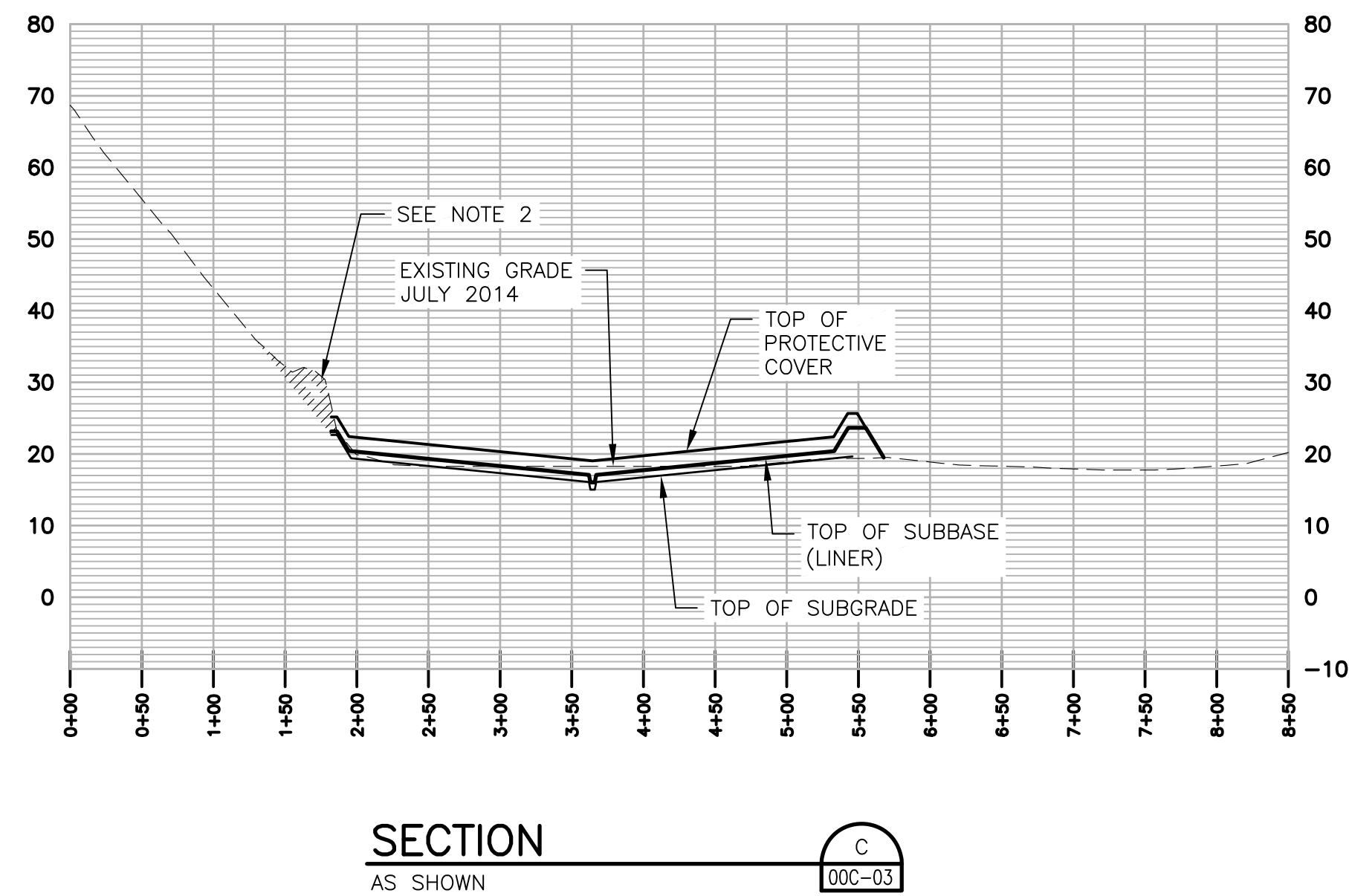
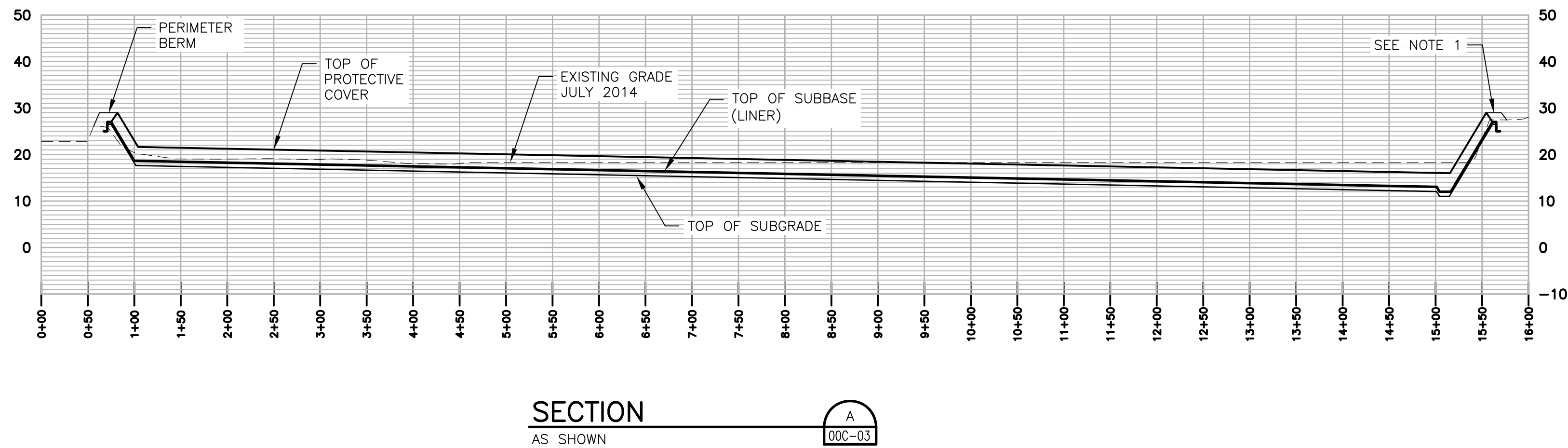
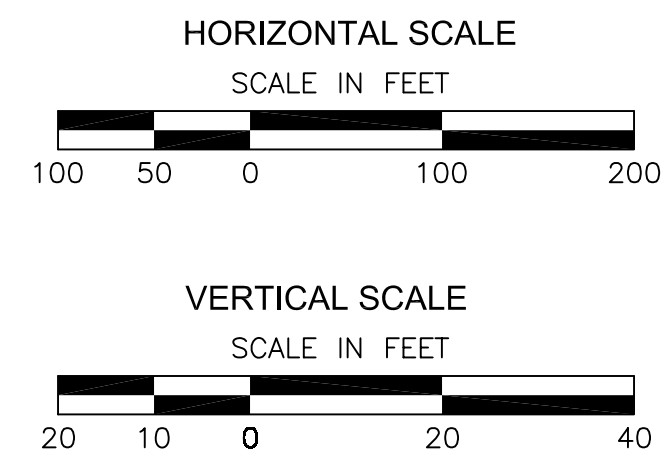


GROUNDWATER DEWATERING PLAN



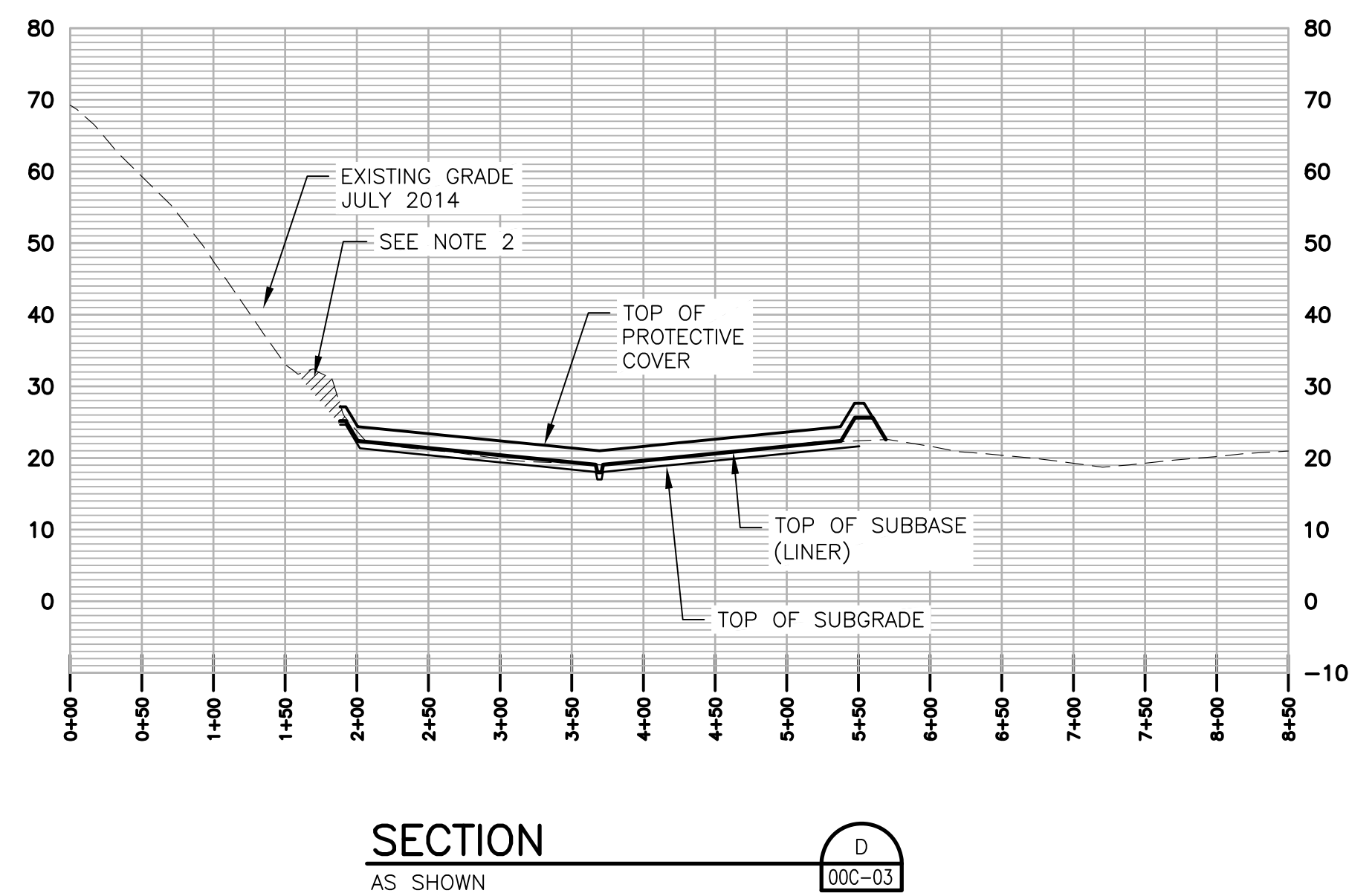
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SCALE | AS SHOWN

SHEET
00C-08



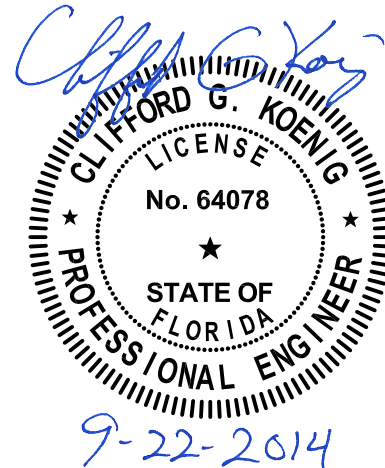
NOTES

- CONTRACTOR SHALL ESTABLISH PERIMETER BERM AROUND AREA 3 (I.E. TOP OF PROTECTIVE COVER/LOW PERMEABILITY SOIL) AT ELEVATION 29.0' AS SHOWN IN DETAIL 1 ON SHEET 01C-01.
- CONTRACTOR TO REMOVE SIDE SLOPE SOIL DIVERSION BERM AND EXCAVATE BY HAND TO EXPOSE PHASE I - AREA 2 LINER AT ANCHOR TRENCH.
- GROUNDWATER DEWATERING TRENCH AND COMPONENTS NOT SHOWN FOR CLARITY.



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			DESIGNED BY M. AUSTIN		
			DRAWN BY M. AUSTIN		
			DRAWN BY L. CHAVEZ		
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			PROJECT NUMBER 000000000219894		
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ISSUE	DATE	DESCRIPTION			



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VOLUSIA COUNTY, FLORIDA



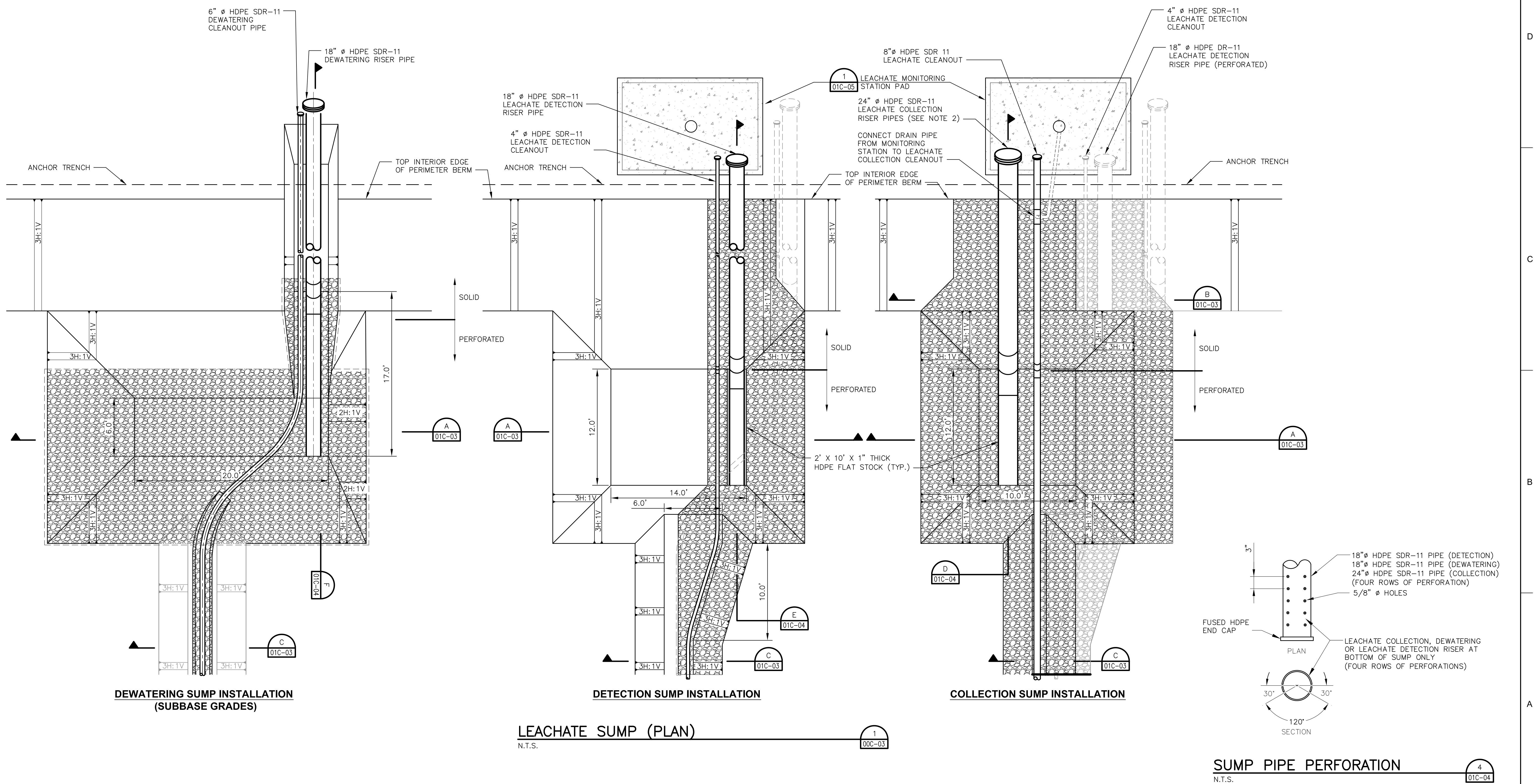
CROSS SECTIONS



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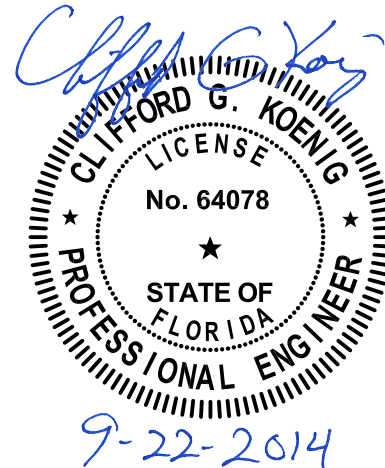
00C-13



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NORTH CELL PHASE II EXPANSION - AREA 3
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VOLUSIA COUNTY, FLORIDA

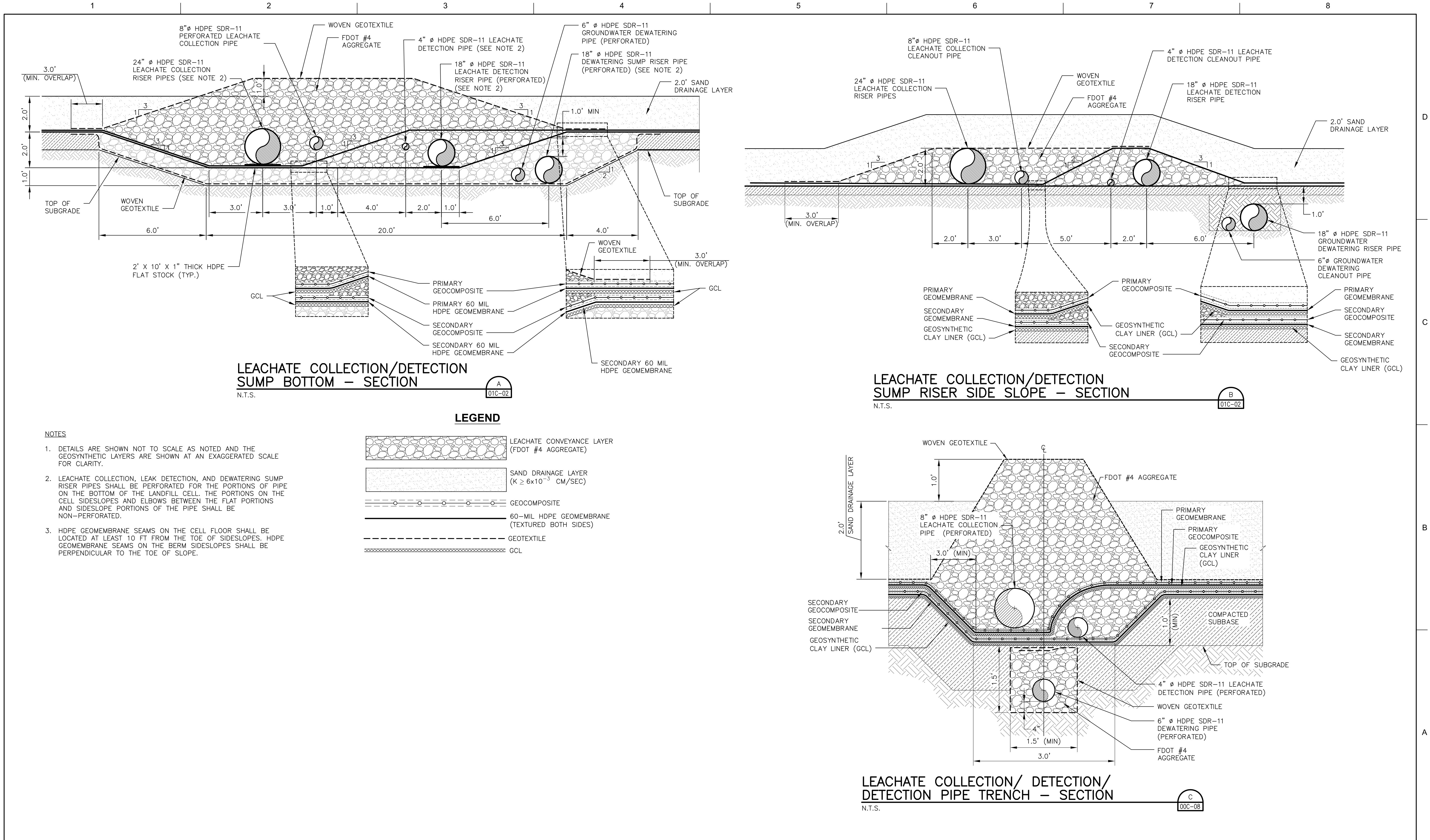


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SCALE | AS SHOWN

SHEET

01C-02

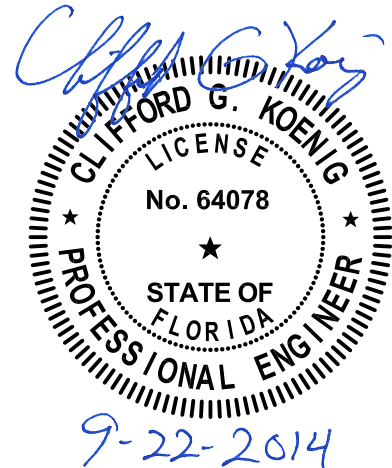
DETAILS
(2 OF 6)



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COA# 4213

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NORTH CELL PHASE II EXPANSION - AREA 3
TOMOKA FARMS ROAD LANDFILL
VOLUSIA COUNTY, FLORIDA



DETAILS
(3 OF 6)

FILENAME 01C-03.dwg
SCALE AS SHOWN

SHEET
01C-03