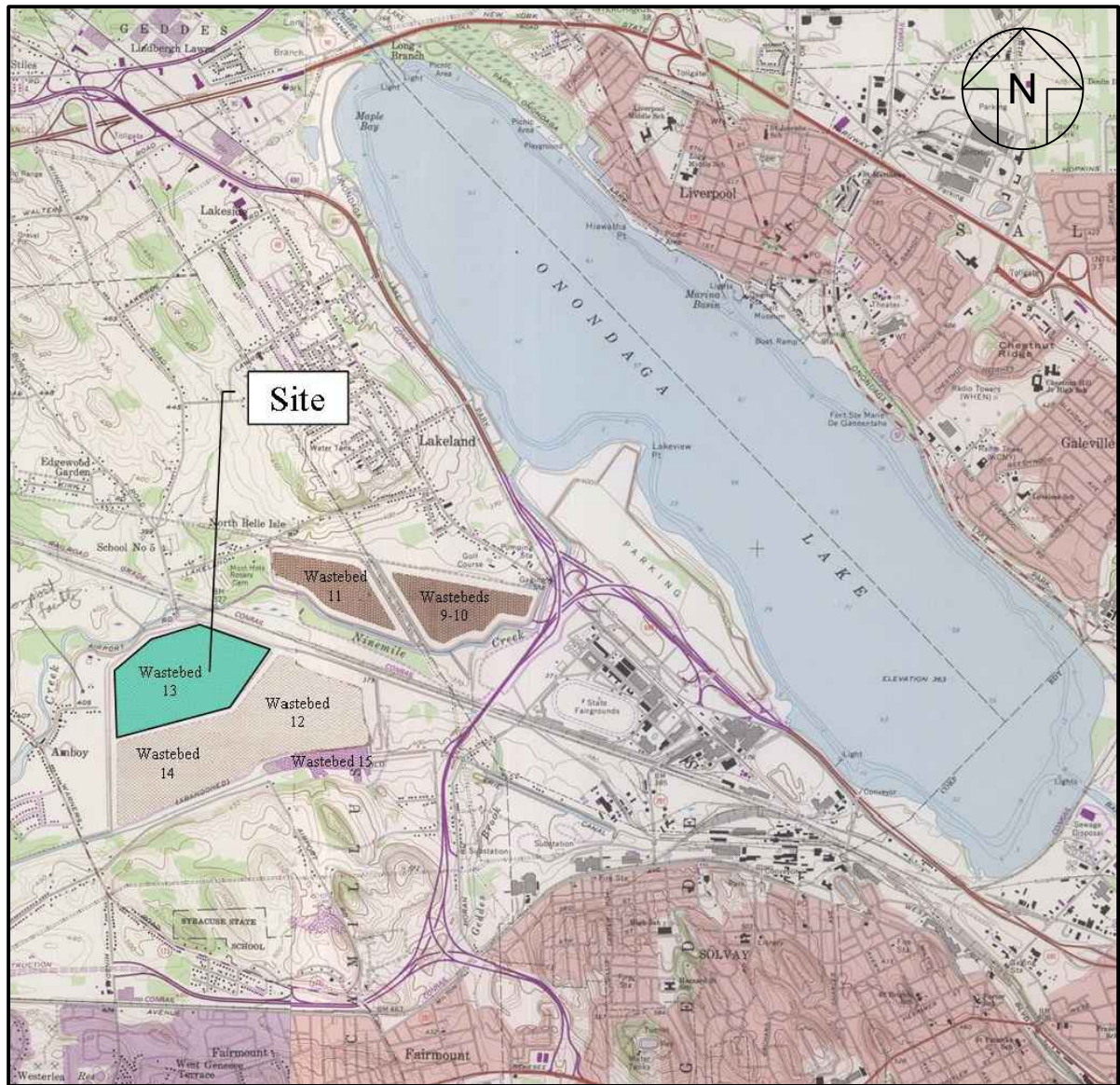


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SEDIMENT CONSOLIDATION AREA FINAL DESIGN

CAMILLUS, NEW YORK

GJ4299.04
JANUARY 2010



SOURCE: PARSONS MAP
VICINITY MAP
NOT TO SCALE



SOURCE: GOOGLE MAP 2009
LOCATION MAP
NOT TO SCALE

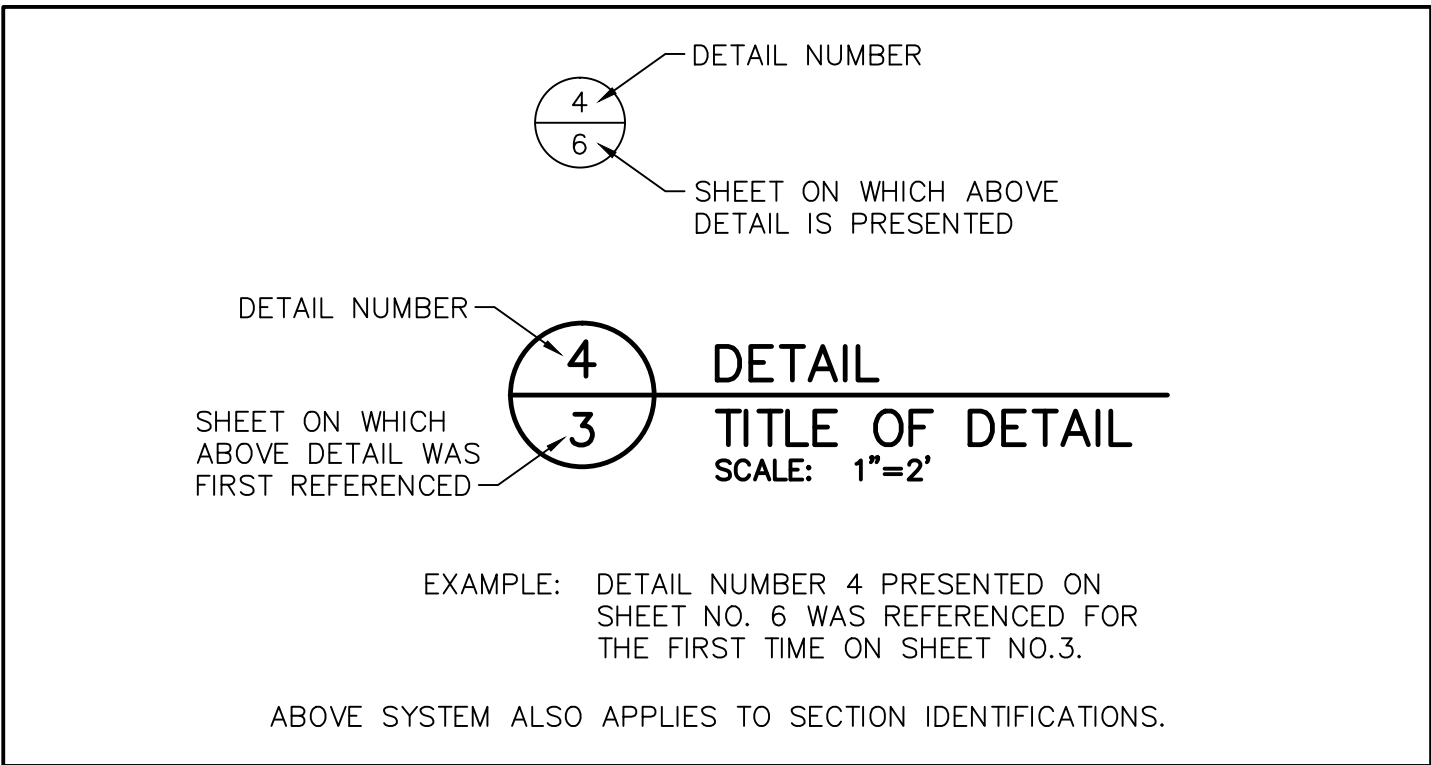
LIST OF DRAWINGS

DRAWING NO.	DRAWING TITLE
1	COVER SHEET
2	EXISTING SITE CONDITIONS
3	BERM AND SUBGRADE GRADING PLAN
4	TOP OF LOW PERMEABILITY SOIL LINER
5	SUMP GRADING PLAN
6	TOP OF GRAVEL DRAINAGE LAYER
7	INSTRUMENTATION AND MONITORING PLAN
8	POST-SETTLEMENT CROSS SECTIONS
9	LINER SYSTEM DETAILS
10	LIQUIDS MANAGEMENT SYSTEM DETAILS
11	INSTRUMENTATION AND MONITORING DETAILS
12	CONCEPTUAL TOP OF GEOTEXTILE TUBES
13	CONCEPTUAL TOP OF FINAL COVER
14	CONCEPTUAL FINAL COVER SURFACE WATER MANAGEMENT PLAN
15	REDUCED VOLUME CONCEPTUAL TOP OF GEOTEXTILE TUBES
16	REDUCED VOLUME CONCEPTUAL TOP OF FINAL COVER
17	FINAL COVER SYSTEM DETAILS
18	SURFACE WATER MANAGEMENT DETAILS
19	MISCELLANEOUS DETAILS

PREPARED FOR:

Honeywell

101 COLUMBIA ROAD
P.O. BOX 2105
MORRISTOWN, NJ 07962



DETAIL IDENTIFICATION LEGEND

PREPARED BY:

Geosyntec
consultants

PARSONS

NOT FOR CONSTRUCTION

1255 ROBERTS BOULEVARD, NW, SUITE 200
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TELEPHONE: 678.202.9500

301 PLAINFIELD ROAD, SUITE 350
SYRACUSE, NEW YORK 13212
TELEPHONE: 315.451.9560

NOTES:

Geosyntec
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1255 ROBERTS BOULEVARD, N.W., SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
B	FINAL DESIGN SUBMITTAL	JAN 2010	JHS	RK	JFB
A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB
NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
JHS		JAN 2010			
RK		JAN 2010			
JFB		JAN 2010			
JFB		JAN 2010			

PARSONS
COMMERCIAL TECHNOLOGY GROUP

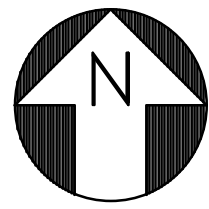
OFFICE
301 PLAINFIELD ROAD
SYRACUSE, NY 13212
(315) 451-9560

JOB
444853
WBS

PROJECT TITLE
Honeywell
SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN

DRAWING TITLE
COVER SHEET
SCALE
SCALE: NOT TO SCALE
DRAWING NO.
444853-101-C-001
REV.
B

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N 1122000

N 1121000

N 1120000

N 1119000

A

B

C

D

E

F

G

H

E 905000

E 906000

E 907000

E 908000

E 909000

E 910000

UPPER

NINEMILE CREEK

PROPOSED WEST STORMWATER BASIN FOOTPRINT

24 INCH DIAMETER CONCRETE PIPE (NOTE 5)

APPROXIMATE LOCATION OF SUBSURFACE BERM

PROPOSED SCA FOOTPRINT

APPROXIMATE LOCATION OF SUBSURFACE BERM

PROPOSED EAST STORMWATER BASIN FOOTPRINT

TEST PAD

PROPOSED SCA FOOTPRINT

WASTEBED 12

WASTEBED 13

OUTFALL 017

WASTEBED 14

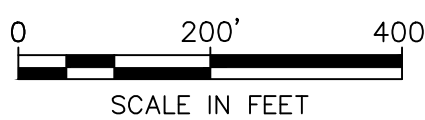
NOT FOR CONSTRUCTION

NOTES:

1. THE TOPOGRAPHIC CONTOURS SHOWN ON THIS DRAWING WERE OBTAINED FROM A TOPOGRAPHIC MAP COMPILED BY TVGA CONSULTANTS USING PHOTOGRAMMETRIC METHODS BASED ON AERIAL PHOTOGRAPHY PERFORMED ON 6 APRIL 2008. THE MAP WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH EQUAL TO 50 FEET SCALE. THE TOPOGRAPHIC MAP WAS PROVIDED TO GEOSYNTEC BY PARSONS.
2. COORDINATES SHOWN HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983/1998 (NAD 83/98) - NEW YORK STATE PLANE GRID. ZONE CENTRAL. ELEVATIONS SHOWN HEREIN ARE EXPRESSED IN FEET AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. A FIELD SURVEY SHOULD BE PERFORMED IF NEEDED BEFORE THE CONSTRUCTION OF DIFFERENT SCA PHASES.
4. THE EXISTING LEACHATE CONTROL SYSTEM AND SPDES DISCHARGE POINT LOCATIONS WERE OBTAINED FROM A DRAWING PREPARED BY O'BRIEN AND GERE AND PROVIDED TO GEOSYNTEC BY PARSONS.
5. THE CONCRETE PIPES APPEAR TO BE APPROXIMATELY ABOUT 30 FEET BELOW THE EXISTING GROUND BASED ON DRAWING NO. SD 5913-3 TITLED "WASTE DISPOSAL - PREPARE #13 BED FOR OPERATION UNDERDRAINS" BY ALLIED CHEMICAL CORPORATION AND WEIR BOX DEPTH MEASUREMENTS CONDUCTED BY O'BRIEN AND GERE.

LEGEND

- 430 — EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- — EXISTING ROAD
- EXISTING WEIR BOX
- WEIR BOX 5
- - - CONCRETE PIPE (NOTE 5)



SCALE IN FEET

Geosyntec
consultants

1255 ROBERTS BOULEVARD, N.W., SUITE 200
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PHONE: 678.202.9500

B	FINAL DESIGN SUBMITTAL	JAN 2010	JHS	RK	JFB
A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB

NO.	DESCRIPTION	DATE	DRAWN	CHKD	APPVD
DRAWN BY	JHS	DATE	JAN 2010	SEAL	
CHECKED BY	RK	DATE	JAN 2010		
APPROVED BY	JFB	DATE	JAN 2010		
PROJECT MGR.	JFB	DATE	JAN 2010		

PARSONS
COMMERCIAL TECHNOLOGY GROUP

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SYRACUSE, NY 13212
(315) 451-9560

JOB
444853
WBS

PROJECT TITLE
Honeywell
SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN

DRAWING TITLE
EXISTING SITE CONDITIONS

SCALE
SCALE: 1" = 200'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO.
444853-101-C-002

REV.
B

This topographic map illustrates a 60-acre site divided into four distinct phases: Phase I (25 acres), Phase II (24 acres), Phase III (16 acres), and Wastebed 13. The map is overlaid with a grid with letters A through F across the top and bottom, and numbers 1 through 6 along the left and right sides. Key features include:

- Phase I (25 Acres):** Located in the central-right portion of the site, containing an existing weir box to be abandoned (Note 3), a liquid conveyance culvert (Note 8), and a test pad area (Note 7).
- Phase II (24 Acres):** Located in the lower-right portion of the site, containing a perimeter berm (Note 4) and an excavation area (Note 6).
- Phase III (16 Acres):** Located in the upper-left portion of the site, containing a west sump (Note 5), a liquid conveyance culvert (Note 8), and a test pad area (Note 7).
- Wastebed 13:** Located in the lower-left portion of the site.
- Infrastructure:** The map shows several roads, including Upper Ninemile Creek and Airport Road. It also depicts various structures such as weirs (Weir Box 5, Weir Box 6, Weir Box 7), sumps (West Sump, East Sump), and basins (West Stormwater Basin, East Stormwater Basin).
- Topography:** Contour lines are drawn throughout the map, indicating elevation changes. The site is bounded by a perimeter berm (Note 4).
- Grid and Orientation:** The map includes a north arrow in the upper-left corner and a scale bar in the lower-left corner. The grid lines are labeled with letters A through F and numbers 1 through 6.

NOTES:

1. THE TOPOGRAPHIC CONTOURS SHOWN ON THIS DRAWING WERE OBTAINED FROM A TOPOGRAPHIC MAP COMPILED BY TVGA CONSULTANTS USING PHOTOGRAMMETRIC METHODS BASED ON AERIAL PHOTOGRAPHY PERFORMED ON 6 APRIL 2008. THE MAP WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH EQUAL TO 50 FEET SCALE. THE TOPOGRAPHIC MAP WAS PROVIDED TO GEOSYNTEC BY PARSONS.
2. THE SCOA DESIGN SHOWN ON THIS DRAWING IS FOR A CAPACITY OF UP TO 2.65 MILLION CUBIC YARDS.
3. WEIR BOX NO. 6 SHALL BE ABANDONED BEFORE BEGINNING CONSTRUCTION PER THE DETAIL SHOWN ON DRAWING 19.
4. THE PERIMETER BERM SHALL HAVE A MINIMUM HEIGHT OF 5 FEET WITH 2.5H:1V SIDE SLOPES AND AN OVERALL MINIMUM LONGITUDINAL SLOPE OF 0.5%.
5. EXCAVATIONS SHALL BE PERFORMED AT PROPOSED SUMP LOCATIONS PER THE GRADES PRESENTED ON DRAWING NO. 5.
6. THE EXISTING FILL SOIL SHALL BE EXCAVATED PER THE GRADES SHOWN ON THIS DRAWING PRIOR TO CONSTRUCTING THE PERIMETER BERM DURING PHASE II.
7. THE FILL SOIL IN THE TEST PAD AREA SHALL BE EXCAVATED PER THE GRADES SHOWN ON THIS DRAWING PRIOR TO CONSTRUCTION. THE EXCAVATED FILL MATERIAL SHALL BE REUSED AS DIRECTED BY THE ENGINEER.
8. THE TEMPORARY LIQUID CONVEYANCE CULVERT SHALL CONSIST OF (4) 24 INCH DIAMETER PIPES AT A SLOPE OF 1%. THESE PIPES SHALL BE PLUGGED WITH BENTONITE BEFORE CLOSURE PER THE DETAILS SHOWN ON DRAWING 19.

LEGEND

	EXISTING GROUND ELEVATION (FEET) (NOTE 1)
	PROPOSED PERIMETER BERM (NOTE 4)
	EXISTING ROAD
	EXISTING WEIR BOX
	WEIR BOX 5
	PHASE BOUNDARY

SCALE IN FEET

1255 ROBERTS BOULEVARD, N.W., SUITE 200
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B	FINAL DESIGN SUBMITTAL	JAN 2010	JHS	RK	JFB
A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'VD
DRAWN BY	JHS	DATE	JAN 2010		
CHECKED BY	RK	DATE	JAN 2010		
APPROVED BY	JFB	DATE	JAN 2010		
PROJECT MGR.	JFB	DATE	JAN 2010		

OFFICE 301 PLAINFIELD ROAD SYRACUSE, NY 13212 (315) 451-9560	JOB 444853 WES
--	--

PROJECT TITLE

Honeywell

**SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN**

DRAWING TITLE

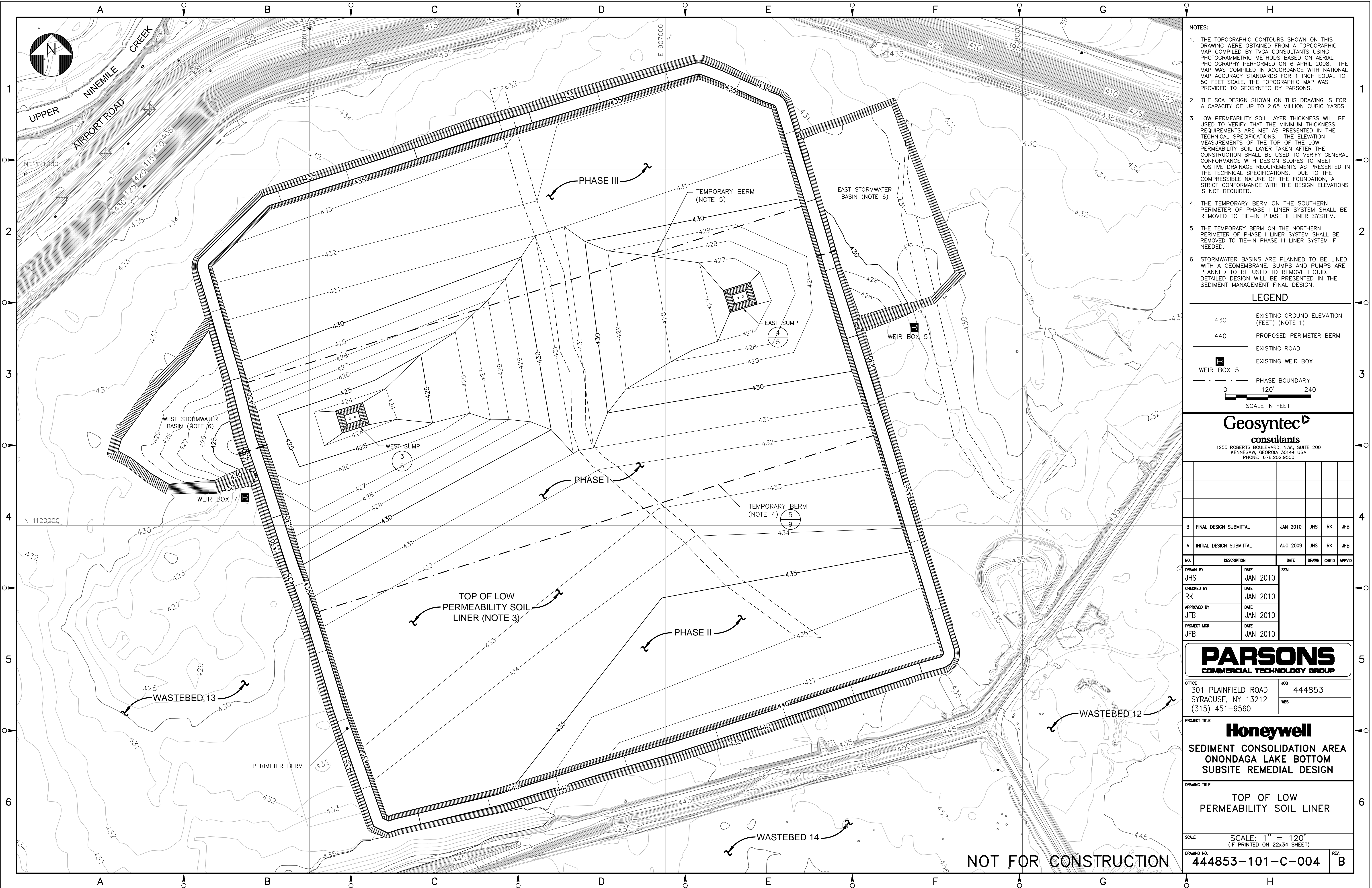
**BERM AND SUBGRADE
GRADING PLAN**

SCALE SCALE: 1" = 120' (IF PRINTED ON 22x34 SHEET)	
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DRAWING NO. 444853-101-C-003	REV. B
--	------------------

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NOTES:

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2. THE SCA DESIGN SHOWN ON THIS DRAWING IS FOR A CAPACITY OF UP TO 2.65 MILLION CUBIC YARDS.
3. LOW PERMEABILITY SOIL LAYER THICKNESS WILL BE USED TO VERIFY THAT THE MINIMUM THICKNESS REQUIREMENTS ARE MET AS PRESENTED IN THE TECHNICAL SPECIFICATIONS. THE ELEVATION MEASUREMENTS OF THE TOP OF THE LOW PERMEABILITY SOIL LAYER TAKEN AFTER THE CONSTRUCTION SHALL BE USED TO VERIFY GENERAL CONFORMANCE WITH DESIGN SLOPES TO MEET POSITIVE DRAINAGE REQUIREMENTS AS PRESENTED IN THE TECHNICAL SPECIFICATIONS. DUE TO THE COMPRESSIBLE NATURE OF THE FOUNDATION, A STRICT CONFORMANCE WITH THE DESIGN ELEVATIONS IS NOT REQUIRED.
4. THE TEMPORARY BERM ON THE SOUTHERN PERIMETER OF PHASE I LINER SYSTEM SHALL BE REMOVED TO TIE-IN PHASE II LINER SYSTEM.
5. THE TEMPORARY BERM ON THE NORTHERN PERIMETER OF PHASE I LINER SYSTEM SHALL BE REMOVED TO TIE-IN PHASE III LINER SYSTEM IF NEEDED.
6. STORMWATER BASINS ARE PLANNED TO BE LINED WITH A GEOMEMBRANE. SUMPS AND PUMPS ARE PLANNED TO BE USED TO REMOVE LIQUID. DETAILED DESIGN WILL BE PRESENTED IN THE SEDIMENT MANAGEMENT FINAL DESIGN.

LEGEND

- 430 — EXISTING GROUND ELEVATION (FEET) (NOTE 1)
 - 440 — PROPOSED PERIMETER BERM
 - — EXISTING ROAD
 - EXISTING WEIR BOX
 - — — PHASE BOUNDARY
- 0 120' 240'
- SCALE IN FEET

Geosyntec
consultants

1255 ROBERTS BOULEVARD, N.W., SUITE 200
KENNESAW, GEORGIA 30144 USA
PHONE: 678.202.9500

NO.	DESCRIPTION	DATE	DRAWN	CHKD	APPVD
B	FINAL DESIGN SUBMITTAL	JAN 2010	JHS	RK	JFB
A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB
NO.	DESCRIPTION	DATE	DRAWN	CHKD	APPVD
JHS		JAN 2010			
CHKD BY	DATE				
RK	JAN 2010				
APPROVED BY	DATE				
JFB	JAN 2010				
PROJECT MGR.	DATE				
JFB	JAN 2010				

PARSONS
COMMERCIAL TECHNOLOGY GROUP

OFFICE
301 PLAINFIELD ROAD
SYRACUSE, NY 13212
(315) 451-9560

JOB
444853
WBS

PROJECT TITLE
Honeywell
SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN

DRAWING TITLE
TOP OF LOW
PERMEABILITY SOIL LINER

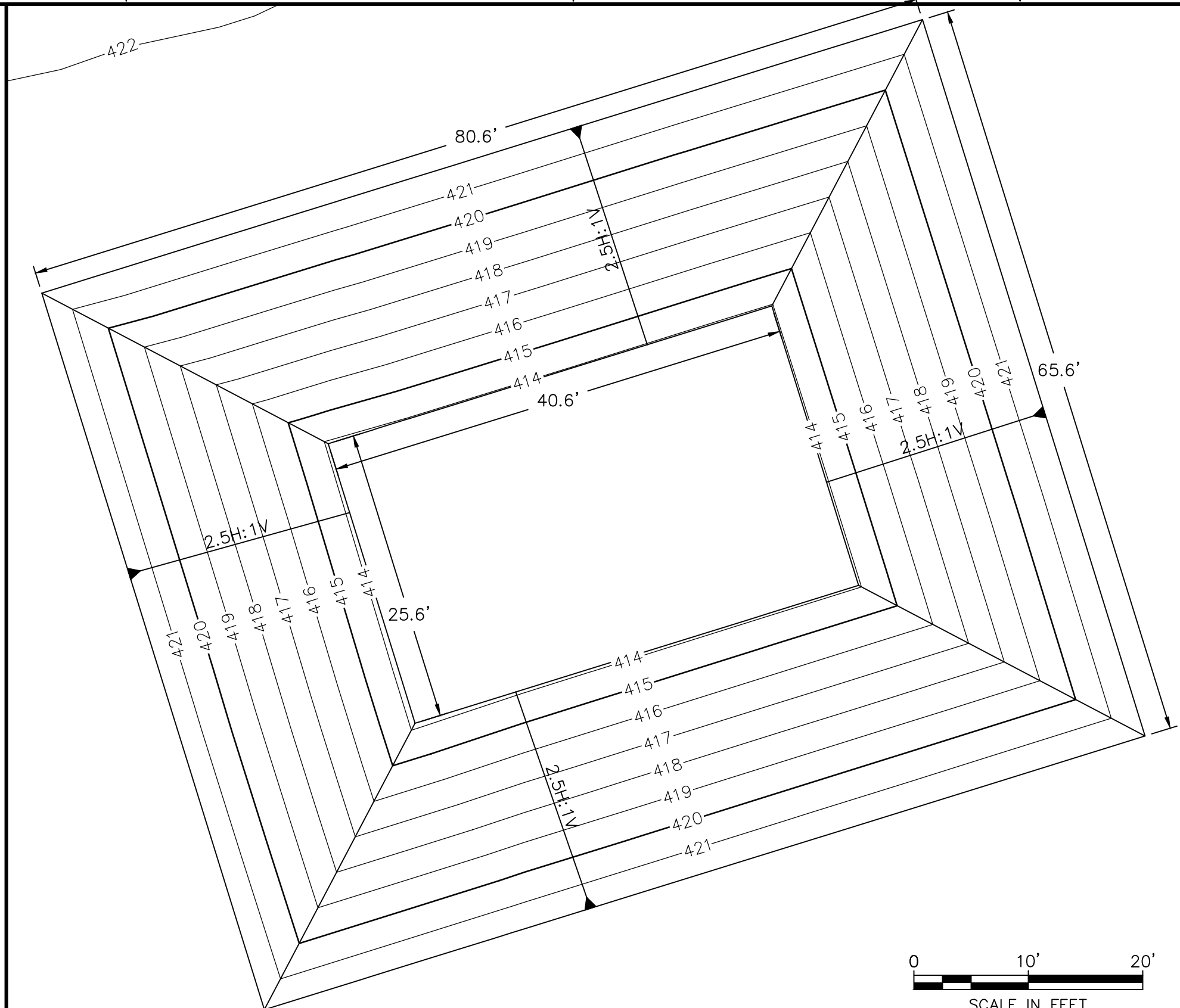
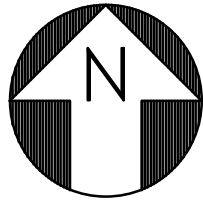
SCALE
SCALE: 1" = 120'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO.
444853-101-C-004

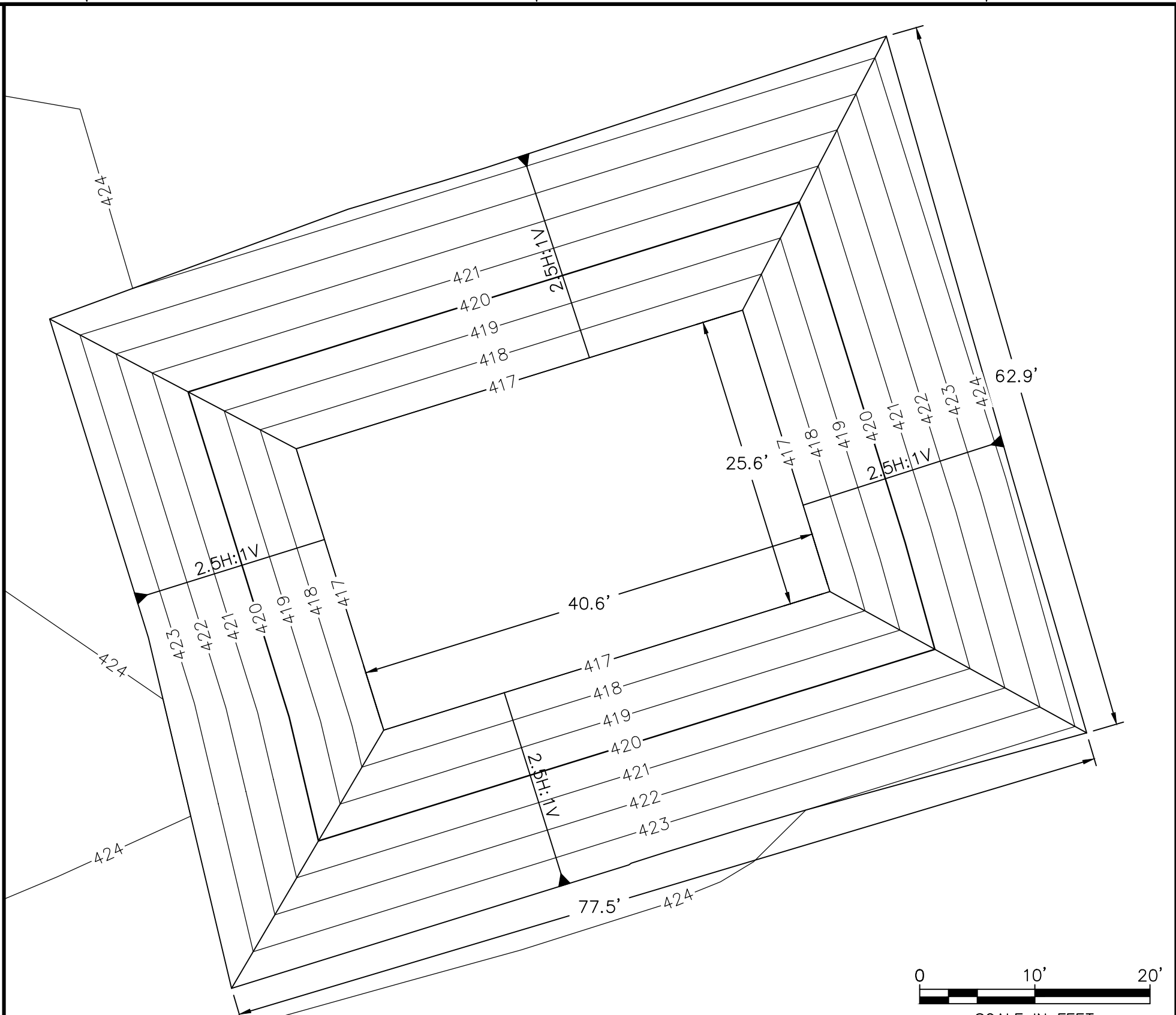
REV.
B

NOT FOR CONSTRUCTION

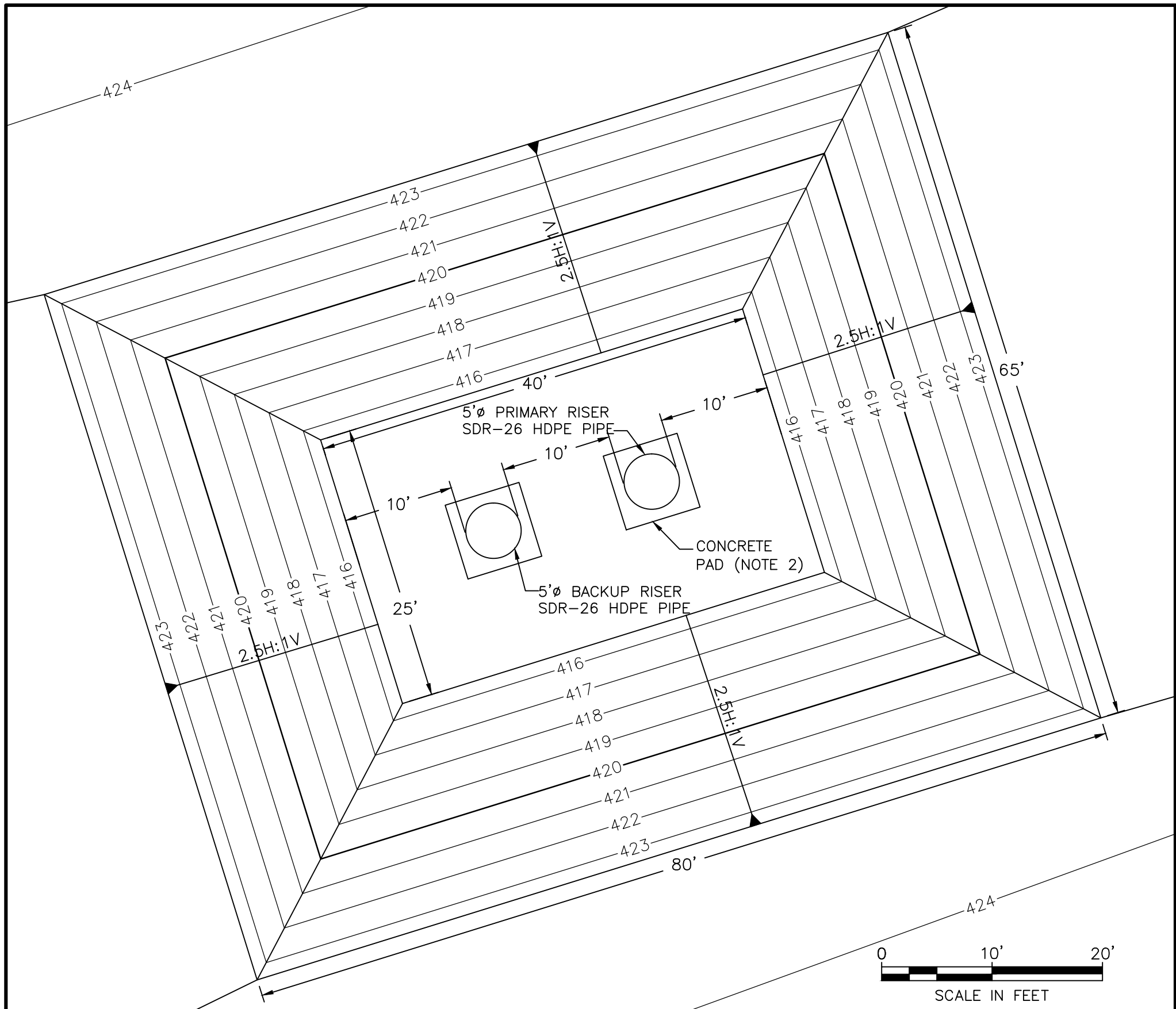
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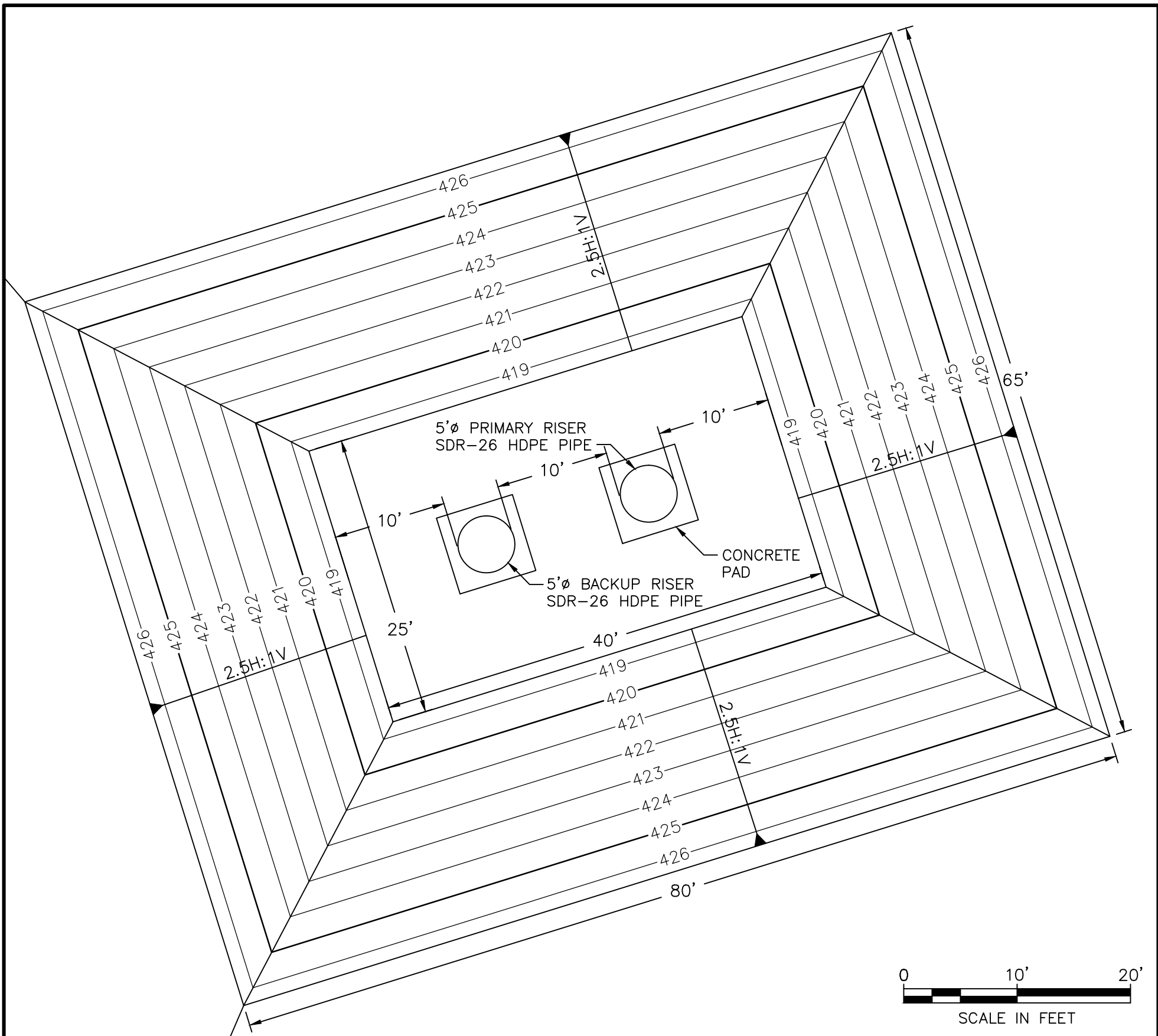
1
3
DETAIL
WEST SUMP SUBGRADE
SCALE: 1" = 10'



2
3
DETAIL
EAST SUMP SUBGRADE
SCALE: 1" = 10'



3
4
DETAIL
WEST SUMP TOP OF LOW PERMEABILITY SOIL LINER
SCALE: 1" = 10'



4
4
DETAIL
EAST SUMP TOP OF LOW PERMEABILITY SOIL LINER
SCALE: 1" = 10'

NOTES:

1. THE SUMPS, RISER PIPES, AND PUMPS ARE DESIGNED FOR POST-CLOSURE CONDITIONS. ADDITIONAL DEWATERING MEASURES WILL BE IMPLEMENTED DURING OPERATIONS AS NEEDED.
2. A SIX INCH THICK CONCRETE PAD SHALL BE CONNECTED TO THE RISER BASE TO PROVIDE ANTI FLotation PROTECTION.

Geosyntec
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NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
B	FINAL DESIGN SUBMITTAL	JAN 2010	JHS	RK	JFB
A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB
NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
JHS	JAN 2010				
CHK'D BY	DATE				
RK	JAN 2010				
APPROVED BY	DATE				
JFB	JAN 2010				
PROJECT MGR.	DATE				
JFB	JAN 2010				

PARSONS
COMMERCIAL TECHNOLOGY GROUP

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JOB
444853
WBS

PROJECT TITLE
Honeywell
SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN

DRAWING TITLE
SUMP GRADING PLAN

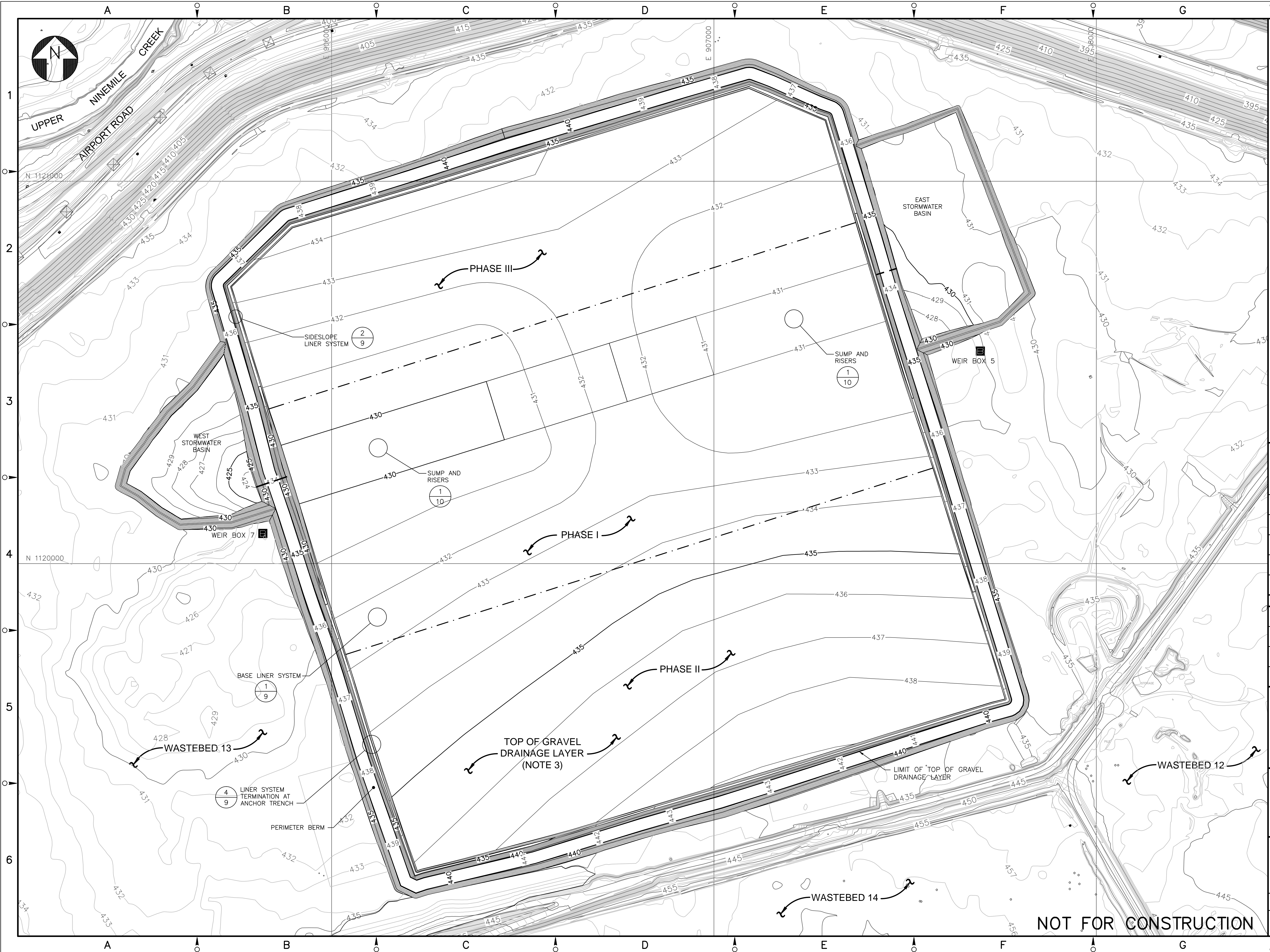
SCALE
SCALE: 1" = 10'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO.
444853-101-C-005

REV.
B

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- NOTES:
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 2. THE SCA DESIGN SHOWN ON THIS DRAWING IS FOR A CAPACITY OF UP TO 2.65 MILLION CUBIC YARDS.
 3. GRAVEL DRAINAGE LAYER THICKNESS WILL BE USED TO VERIFY THAT THE MINIMUM THICKNESS REQUIREMENTS ARE MET AS PRESENTED IN THE TECHNICAL SPECIFICATIONS. THE ELEVATION MEASUREMENTS OF THE TOP OF THE LOW PERMEABILITY SOIL LAYER TAKEN AFTER THE CONSTRUCTION SHALL BE USED TO VERIFY GENERAL CONFORMANCE WITH DESIGN SLOPES AS PRESENTED IN THE TECHNICAL SPECIFICATIONS. DUE TO THE COMPRESSIBLE NATURE OF THE FOUNDATION, A STRICT CONFORMANCE WITH THE DESIGN ELEVATIONS IS NOT REQUIRED.
 4. GRAVEL DRAINAGE LAYER MATERIAL CAN BE USED TO LOCALLY ADJUST THE SLOPES DURING FILLING OF GEOTEXTILE TUBES AS NEEDED.
 5. A MINIMUM OF 2 FT OF GRAVEL MATERIAL SHALL BE PLACED IN AREAS TRAFFICKED BY RUBBER-TIRED VEHICLES. THE GRAVEL CAN BE GRADED OUT WITH A BULLDOZER WHEN NO LONGER NEEDED.

LEGEND

- 430 — EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- 440 — PROPOSED PERIMETER BERM
- — EXISTING ROAD
- EXISTING WEIR BOX
- WEIR BOX 5
- - - - - PHASE BOUNDARY

0 120' 240'
SCALE IN FEET

Geosyntec consultants 1255 ROBERTS BOULEVARD, N.W., SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.9500					
B	FINAL DESIGN SUBMITTAL	JAN 2010	JHS	RK	JFB
A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB
NO.	DESCRIPTION	DATE	DRAWN	CHKD	APPVD
DRAWN BY	JHS	DATE	JAN 2010	SEAL	
CHECKED BY	RK	DATE	JAN 2010		
APPROVED BY	JFB	DATE	JAN 2010		
PROJECT MGR.	JFB	DATE	JAN 2010		

PARSONS
COMMERCIAL TECHNOLOGY GROUP

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JOB: 444853
WBS:

PROJECT TITLE: **Honeywell**
**SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN**

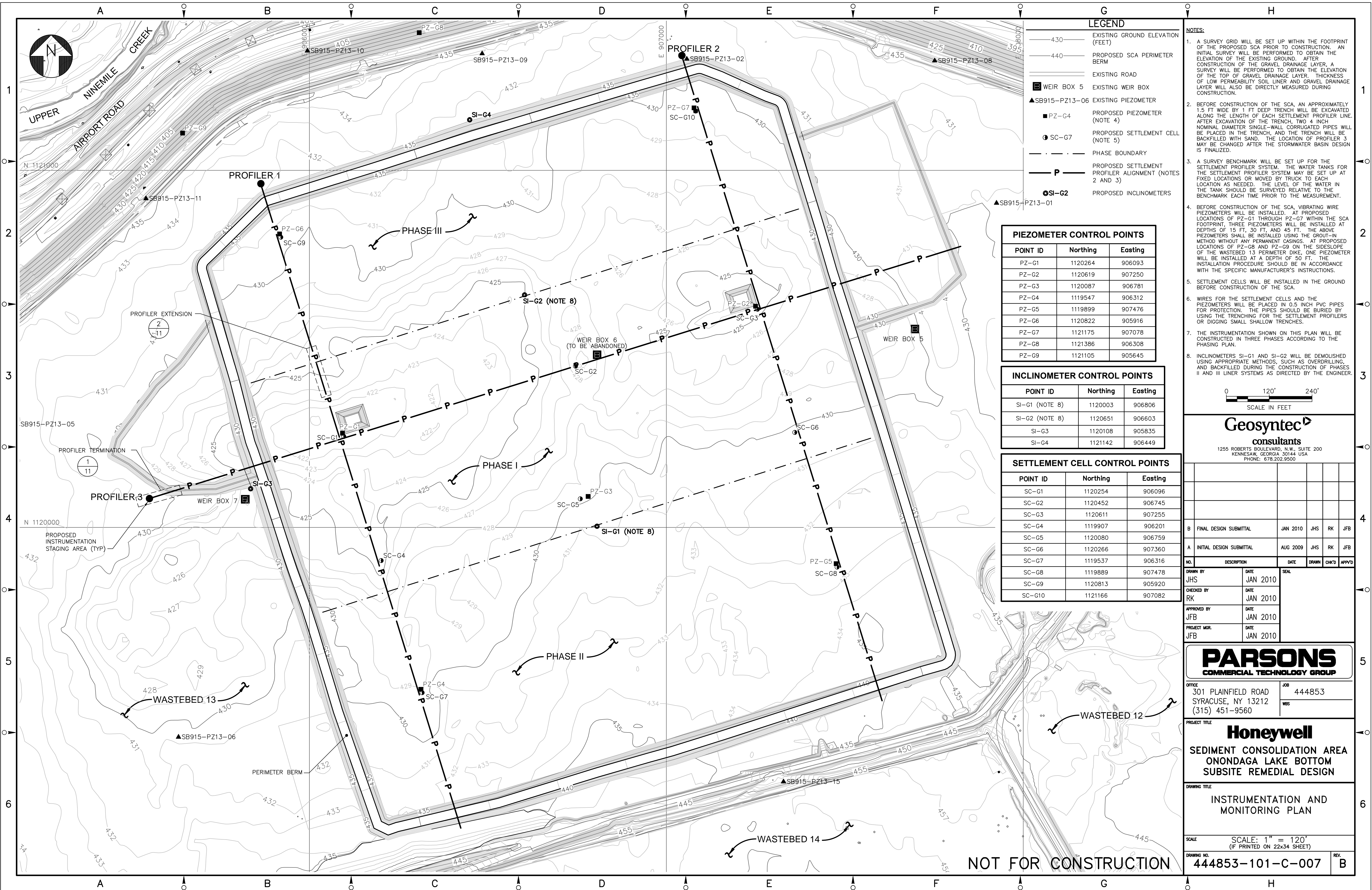
DRAWING TITLE: **TOP OF GRAVEL
DRAINAGE LAYER**

SCALE: SCALE: 1" = 120'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO. 444853-101-C-006 REV. B

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LEGEND

- 430 — EXISTING GROUND ELEVATION (FEET)
- 440 — PROPOSED SCA PERIMETER BERM
- — EXISTING ROAD
- WEIR BOX 5 EXISTING WEIR BOX
- ▲ SB915-PZ13-06 EXISTING PIEZOMETER
- PZ-G4 PROPOSED PIEZOMETER (NOTE 4)
- SC-G7 PROPOSED SETTLEMENT CELL (NOTE 5)
- - - - - PHASE BOUNDARY
- P — PROPOSED SETTLEMENT PROFILER ALIGNMENT (NOTES 2 AND 3)
- SI-G2 PROPOSED INCLINOMETERS

PIEZOMETER CONTROL POINTS

POINT ID	Northing	Easting
PZ-G1	1120264	906093
PZ-G2	1120619	907250
PZ-G3	1120087	906781
PZ-G4	1119547	906312
PZ-G5	1119899	907476
PZ-G6	1120822	905916
PZ-G7	1121175	907078
PZ-G8	1121386	906308
PZ-G9	1121105	905645

INCLINOMETER CONTROL POINTS

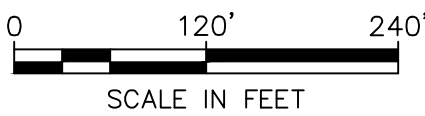
POINT ID	Northing	Easting
SI-G1 (NOTE 8)	1120003	906806
SI-G2 (NOTE 8)	1120651	906603
SI-G3	1120108	905835
SI-G4	1121142	906449

SETTLEMENT CELL CONTROL POINTS

POINT ID	Northing	Easting
SC-G1	1120254	906096
SC-G2	1120452	906745
SC-G3	1120611	907255
SC-G4	1119907	906201
SC-G5	1120080	906759
SC-G6	1120266	907360
SC-G7	1119537	906316
SC-G8	1119889	907478
SC-G9	1120813	905920
SC-G10	1121166	907082

NOTES:

- A SURVEY GRID WILL BE SET UP WITHIN THE FOOTPRINT OF THE PROPOSED SCA PRIOR TO CONSTRUCTION. AN INITIAL SURVEY WILL BE PERFORMED TO OBTAIN THE ELEVATION OF THE EXISTING GROUND. AFTER CONSTRUCTION OF THE GRAVEL DRAINAGE LAYER, A SURVEY WILL BE PERFORMED TO OBTAIN THE ELEVATION OF THE TOP OF GRAVEL DRAINAGE LAYER. THICKNESS OF LOW PERMEABILITY SOIL LINER AND GRAVEL DRAINAGE LAYER WILL ALSO BE DIRECTLY MEASURED DURING CONSTRUCTION.
- BEFORE CONSTRUCTION OF THE SCA, AN APPROXIMATELY 1.5 FT. WIDE BY 1 FT. DEEP TRENCH WILL BE EXCAVATED ALONG THE LENGTH OF EACH SETTLEMENT PROFILER LINE. AFTER EXCAVATION OF THE TRENCH, TWO 4 INCH NOMINAL DIAMETER SINGLE-WALL CORRUGATED PIPES WILL BE PLACED IN THE TRENCH, AND THE TRENCH WILL BE BACKFILLED WITH SAND. THE LOCATION OF PROFILER 3 MAY BE CHANGED AFTER THE STORMWATER BASIN DESIGN IS FINALIZED.
- A SURVEY BENCHMARK WILL BE SET UP FOR THE SETTLEMENT PROFILER SYSTEM. THE WATER TANKS FOR THE SETTLEMENT PROFILER SYSTEM MAY BE SET UP AT FIXED LOCATIONS OR MOVED BY TRUCK TO EACH LOCATION AS NEEDED. THE LEVEL OF THE WATER IN THE TANK SHOULD BE SURVEYED RELATIVE TO THE BENCHMARK EACH TIME PRIOR TO THE MEASUREMENT.
- BEFORE CONSTRUCTION OF THE SCA, VIBRATING WIRE PIEZOMETERS WILL BE INSTALLED. AT PROPOSED LOCATIONS OF PZ-G1 THROUGH PZ-G7 WITHIN THE SCA FOOTPRINT, THREE PIEZOMETERS WILL BE INSTALLED AT DEPTHS OF 15 FT, 30 FT, AND 45 FT. THE ABOVE PIEZOMETERS SHALL BE INSTALLED USING THE GROUT-IN METHOD WITHOUT ANY PERMANENT CASINGS. AT PROPOSED LOCATIONS OF PZ-G8 AND PZ-G9 ON THE SIDESLOPE OF THE WASTEBED 13 PERIMETER DIKE, ONE PIEZOMETER WILL BE INSTALLED AT A DEPTH OF 50 FT. THE INSTALLATION PROCEDURE SHOULD BE IN ACCORDANCE WITH THE SPECIFIC MANUFACTURER'S INSTRUCTIONS.
- SETTLEMENT CELLS WILL BE INSTALLED IN THE GROUND BEFORE CONSTRUCTION OF THE SCA.
- WIRES FOR THE SETTLEMENT CELLS AND THE PIEZOMETERS WILL BE PLACED IN 0.5 INCH PVC PIPES FOR PROTECTION. THE PIPES SHOULD BE BURIED BY USING THE TRENCHING FOR THE SETTLEMENT PROFILERS OR DIGGING SMALL SHALLOW TRENCHES.
- THE INSTRUMENTATION SHOWN ON THIS PLAN WILL BE CONSTRUCTED IN THREE PHASES ACCORDING TO THE PHASING PLAN.
- INCLINOMETERS SI-G1 AND SI-G2 WILL BE DEMOLISHED USING APPROPRIATE METHODS, SUCH AS OVERDRILLING, AND BACKFILLED DURING THE CONSTRUCTION OF PHASES II AND III LINER SYSTEMS AS DIRECTED BY THE ENGINEER.



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RK		JAN 2010			
JFB		JAN 2010			
JFB		JAN 2010			

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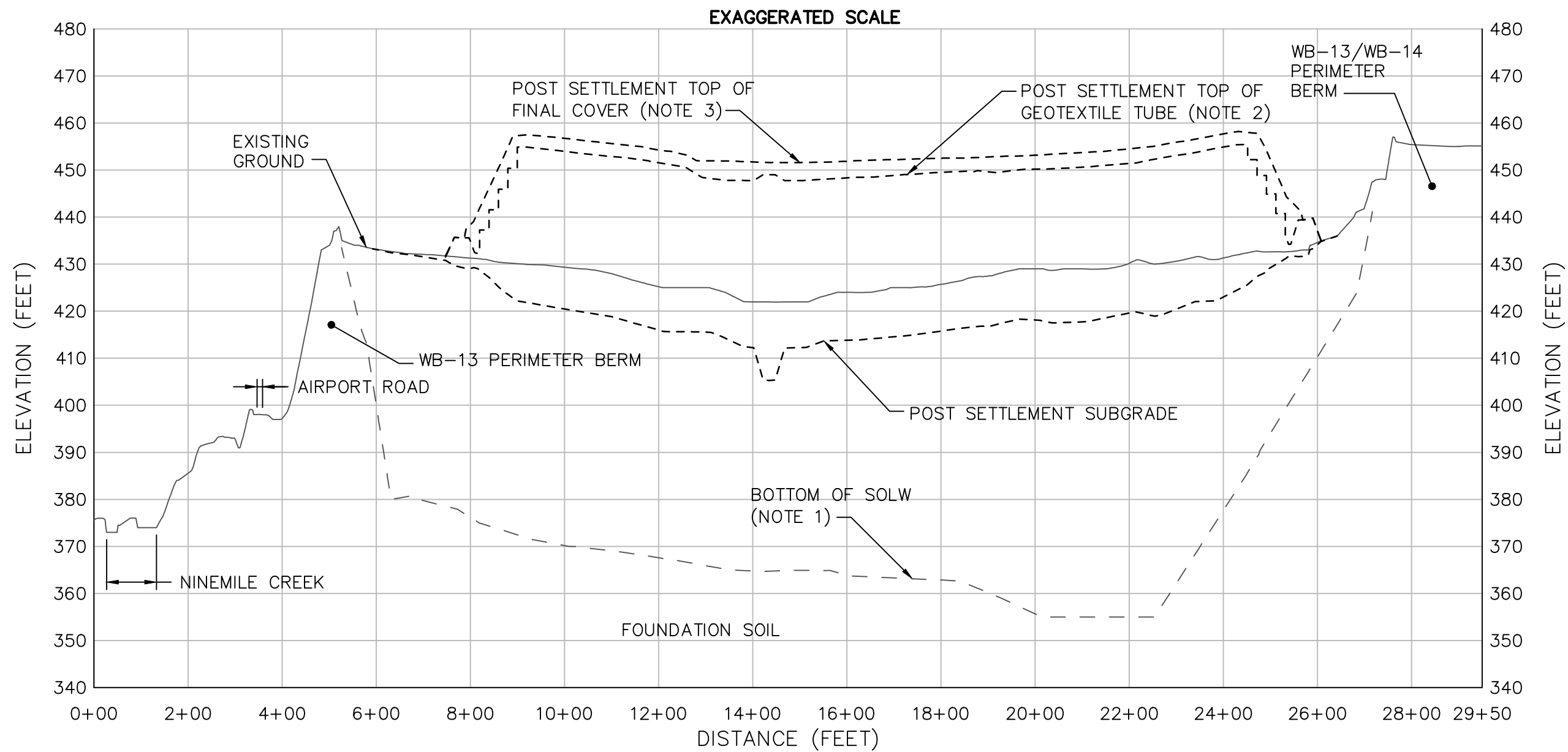
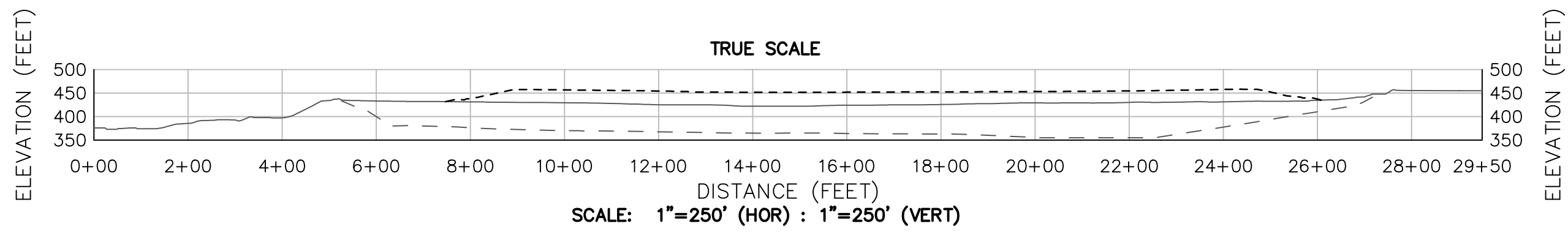
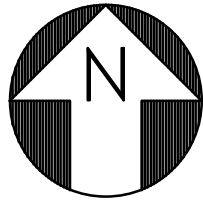
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SEDIMENT CONSOLIDATION AREA
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SUBSITE REMEDIAL DESIGN

DRAWING TITLE: **INSTRUMENTATION AND
MONITORING PLAN**

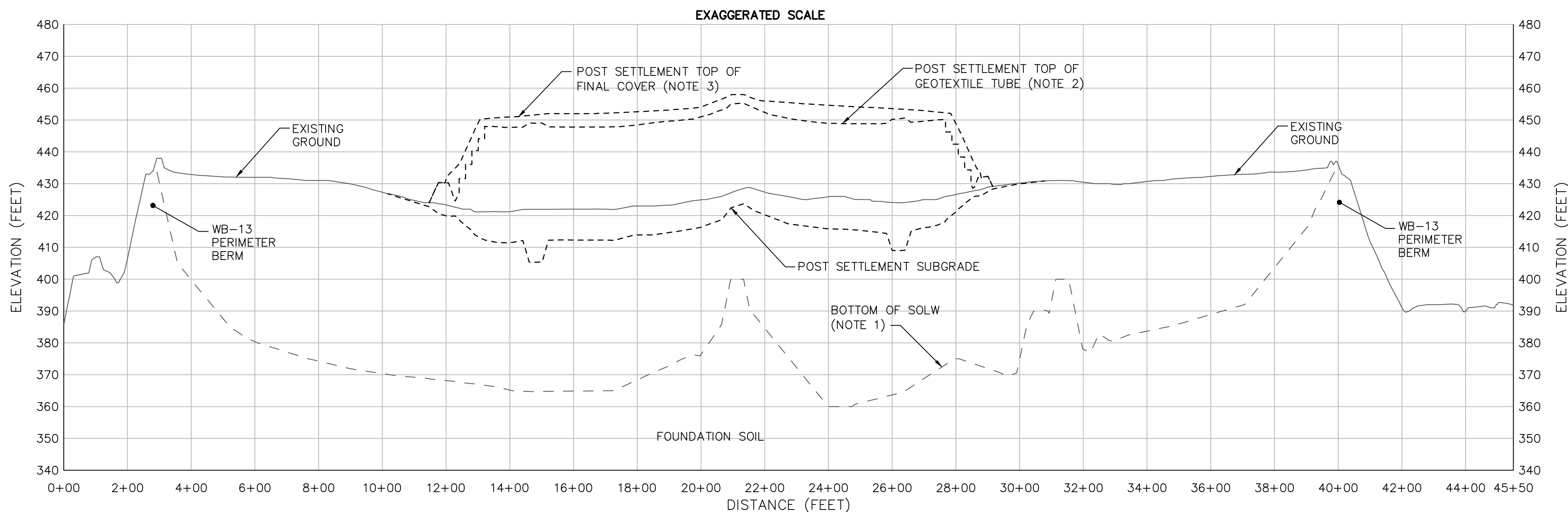
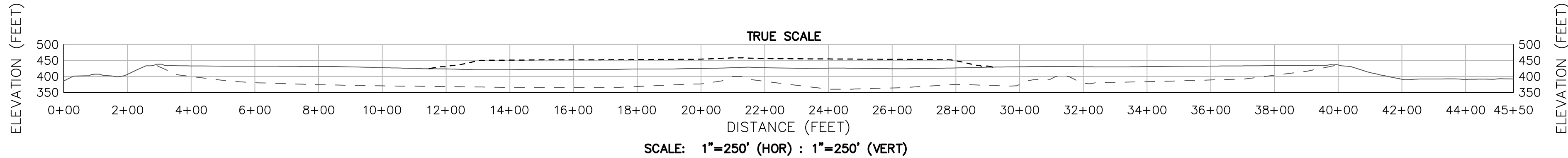
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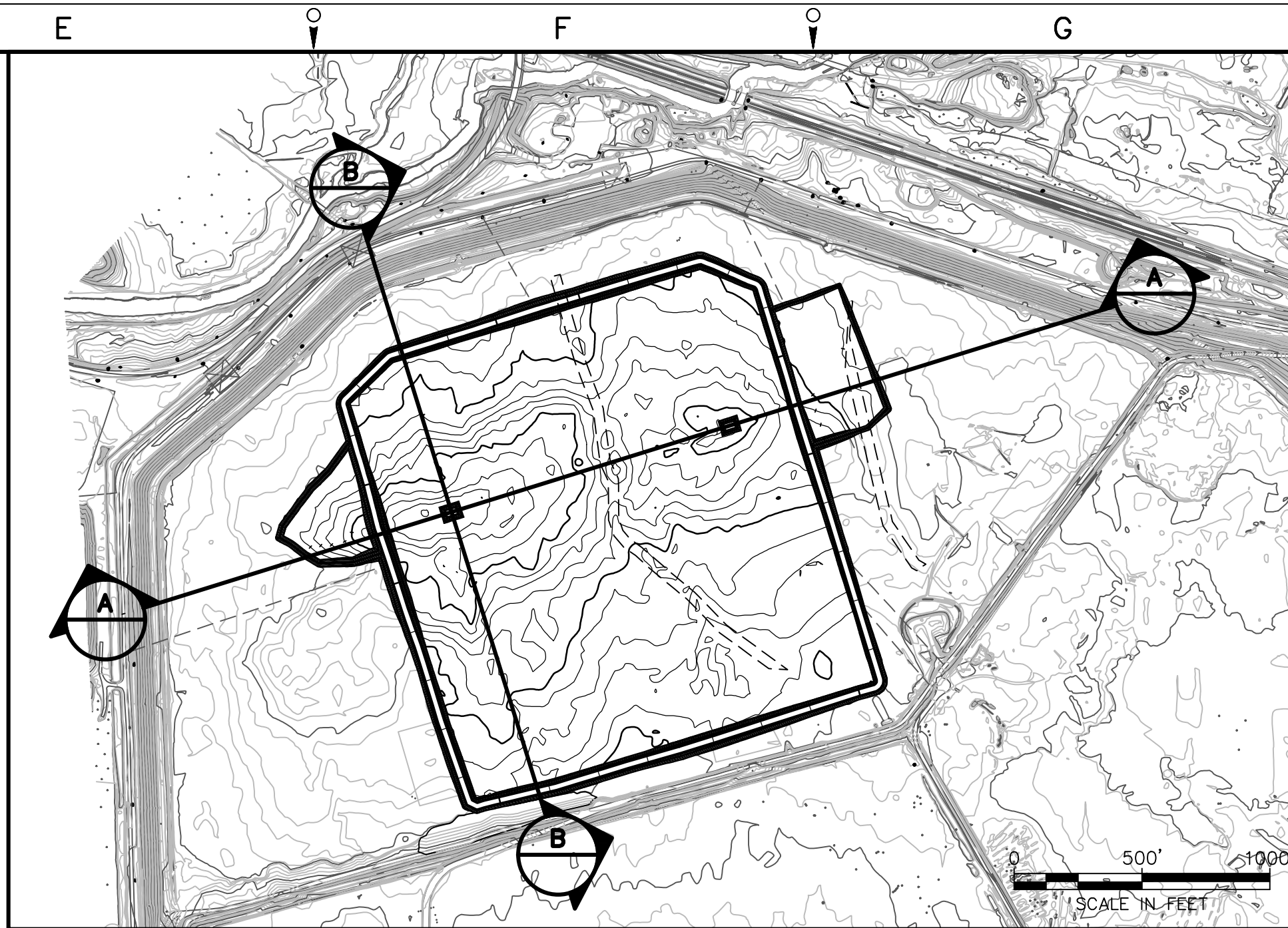
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B
3 CROSS SECTION
CROSS SECTION B-B'
SCALE: 1"=250' (HOR) : 1"=25' (VERT)



A
3 CROSS SECTION
CROSS SECTION A-A'
SCALE: 1"=250' (HOR) : 1"=25' (VERT)



KEY MAP

- NOTES:
1. BOTTOM OF SOLW ELEVATIONS WERE INTERPRETED BASED ON DATA FROM MULTIPLE GEOTECHNICAL INVESTIGATIONS.
 2. THE TOP OF GEOTEXTILE TUBE ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON SETTLEMENT CALCULATIONS PERFORMED TO ESTIMATE ELEVATIONS AT THE END OF 4 YEARS OF DEWATERING OPERATIONS. ACTUAL ELEVATIONS MAY VARY FROM THE CALCULATED ELEVATIONS.
 3. THE TOP OF FINAL COVER ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON THE CALCULATED SETTLED TOP OF GEOTEXTILE TUBE ELEVATIONS CORRESPONDING TO THE END OF DEWATERING OPERATIONS. ACTUAL FINAL COVER ELEVATIONS MAY VARY FROM THE PROPOSED ELEVATIONS IF THE CALCULATED AND ACTUAL TOP OF GEOTEXTILE TUBE ELEVATIONS AT THE END OF DEWATERING OPERATIONS ARE DIFFERENT.
 4. THE FINAL TOPOGRAPHY FOR THE TEMPORARY STORMWATER BASINS IS NOT INCLUDED ON CROSS SECTION A-A'.

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CHK'D BY		DATE			
RK		JAN 2010			
APPROVED BY		DATE			
JFB		JAN 2010			
PROJECT MGR.		DATE			
JFB		JAN 2010			

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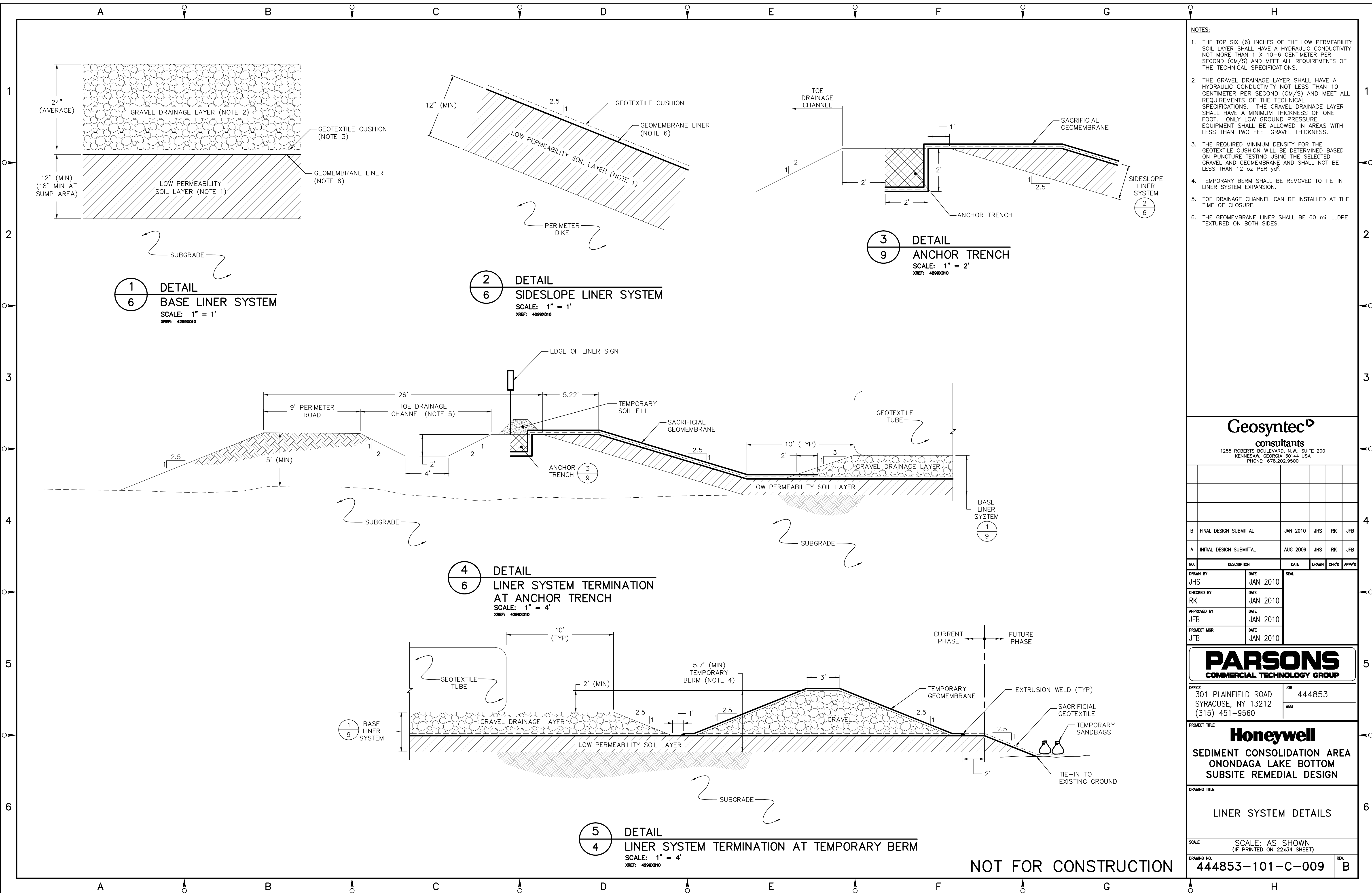
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CROSS SECTIONS

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- NOTES:**
1. THE TOP SIX (6) INCHES OF THE LOW PERMEABILITY SOIL LAYER SHALL HAVE A HYDRAULIC CONDUCTIVITY NOT MORE THAN 1 X 10⁻⁶ CENTIMETER PER SECOND (CM/S) AND MEET ALL REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS.
 2. THE GRAVEL DRAINAGE LAYER SHALL HAVE A HYDRAULIC CONDUCTIVITY NOT LESS THAN 10 CENTIMETER PER SECOND (CM/S) AND MEET ALL REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS. THE GRAVEL DRAINAGE LAYER SHALL HAVE A MINIMUM THICKNESS OF ONE FOOT. ONLY LOW GROUND PRESSURE EQUIPMENT SHALL BE ALLOWED IN AREAS WITH LESS THAN TWO FEET GRAVEL THICKNESS.
 3. THE REQUIRED MINIMUM DENSITY FOR THE GEOTEXTILE CUSHION WILL BE DETERMINED BASED ON PUNCTURE TESTING USING THE SELECTED GRAVEL AND GEOMEMBRANE AND SHALL NOT BE LESS THAN 12 oz PER YD².
 4. TEMPORARY BERM SHALL BE REMOVED TO TIE-IN LINER SYSTEM EXPANSION.
 5. TOE DRAINAGE CHANNEL CAN BE INSTALLED AT THE TIME OF CLOSURE.
 6. THE GEOMEMBRANE LINER SHALL BE 60 mil LLDPE TEXTURED ON BOTH SIDES.

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JFB		JAN 2010					
JFB		JAN 2010					

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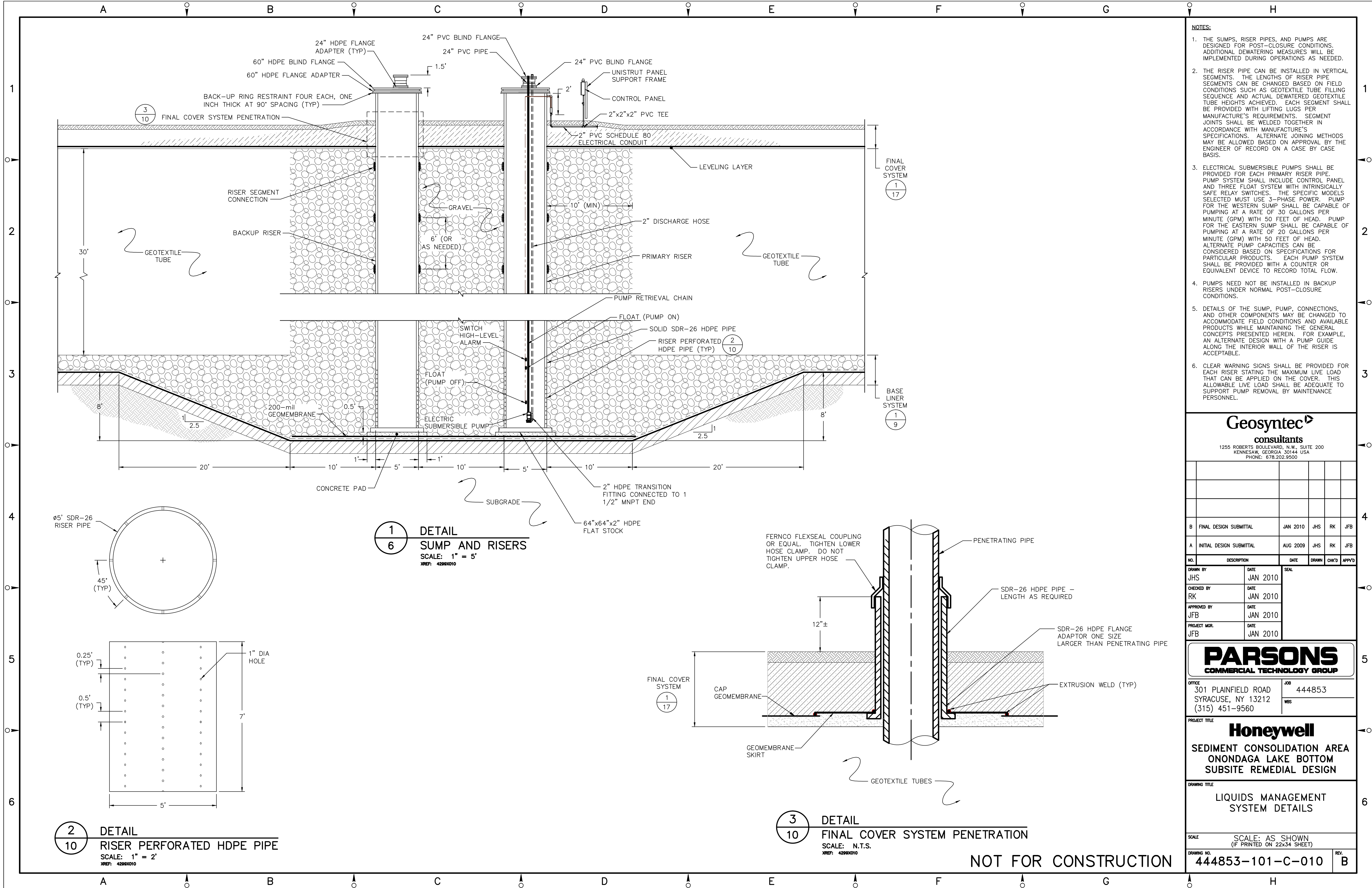
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LINER SYSTEM DETAILS

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- NOTES:
1. THE SUMPS, RISER PIPES, AND PUMPS ARE DESIGNED FOR POST-CLOSURE CONDITIONS. ADDITIONAL DEWATERING MEASURES WILL BE IMPLEMENTED DURING OPERATIONS AS NEEDED.
 2. THE RISER PIPE CAN BE INSTALLED IN VERTICAL SEGMENTS. THE LENGTHS OF RISER PIPE SEGMENTS CAN BE CHANGED BASED ON FIELD CONDITIONS SUCH AS GEOTEXTILE TUBE FILLING SEQUENCE AND ACTUAL DEWATERED GEOTEXTILE TUBE HEIGHTS ACHIEVED. EACH SEGMENT SHALL BE PROVIDED WITH LIFTING LUGS PER MANUFACTURE'S REQUIREMENTS. SEGMENT JOINTS SHALL BE WELDED TOGETHER IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS. ALTERNATE JOINING METHODS MAY BE ALLOWED BASED ON APPROVAL BY THE ENGINEER OF RECORD ON A CASE BY CASE BASIS.
 3. ELECTRICAL SUBMERSIBLE PUMPS SHALL BE PROVIDED FOR EACH PRIMARY RISER PIPE. PUMP SYSTEM SHALL INCLUDE CONTROL PANEL AND THREE FLOAT SYSTEM WITH INTRINSICALLY SAFE RELAY SWITCHES. THE SPECIFIC MODELS SELECTED MUST USE 3-PHASE POWER. PUMP FOR THE WESTERN SUMP SHALL BE CAPABLE OF PUMPING AT A RATE OF 30 GALLONS PER MINUTE (GPM) WITH 50 FEET OF HEAD. PUMP FOR THE EASTERN SUMP SHALL BE CAPABLE OF PUMPING AT A RATE OF 20 GALLONS PER MINUTE (GPM) WITH 50 FEET OF HEAD. ALTERNATE PUMP CAPACITIES CAN BE CONSIDERED BASED ON SPECIFICATIONS FOR PARTICULAR PRODUCTS. EACH PUMP SYSTEM SHALL BE PROVIDED WITH A COUNTER OR EQUIVALENT DEVICE TO RECORD TOTAL FLOW.
 4. PUMPS NEED NOT BE INSTALLED IN BACKUP RISERS UNDER NORMAL POST-CLOSURE CONDITIONS.
 5. DETAILS OF THE SUMP, PUMP, CONNECTIONS, AND OTHER COMPONENTS MAY BE CHANGED TO ACCOMMODATE FIELD CONDITIONS AND AVAILABLE PRODUCTS WHILE MAINTAINING THE GENERAL CONCEPTS PRESENTED HEREIN. FOR EXAMPLE, AN ALTERNATE DESIGN WITH A PUMP GUIDE ALONG THE INTERIOR WALL OF THE RISER IS ACCEPTABLE.
 6. CLEAR WARNING SIGNS SHALL BE PROVIDED FOR EACH RISER STATING THE MAXIMUM LIVE LOAD THAT CAN BE APPLIED ON THE COVER. THIS ALLOWABLE LIVE LOAD SHALL BE ADEQUATE TO SUPPORT PUMP REMOVAL BY MAINTENANCE PERSONNEL.

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DRAWING TITLE
LIQUIDS MANAGEMENT
SYSTEM DETAILS

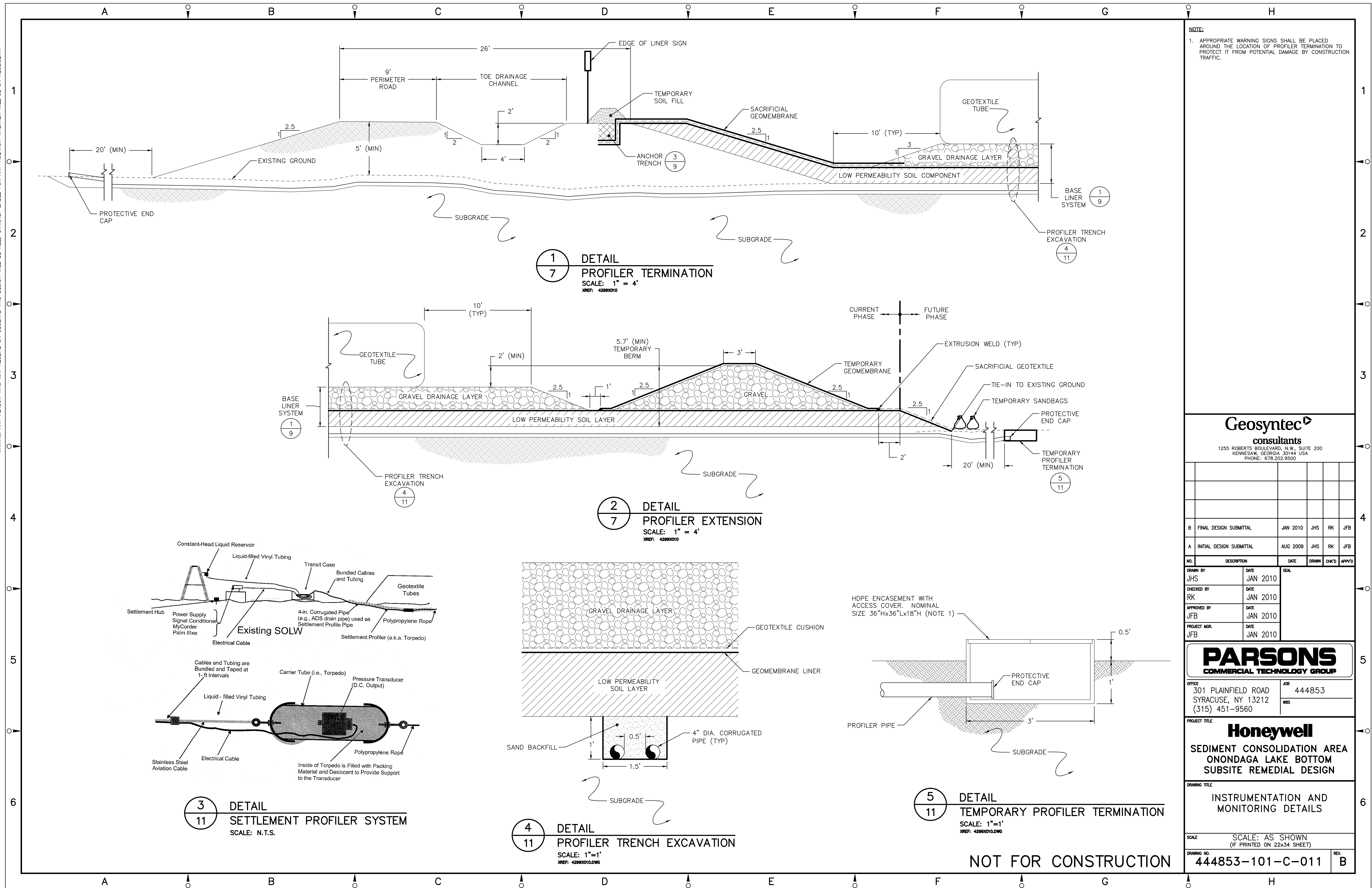
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NOTE:
1. APPROPRIATE WARNING SIGNS SHALL BE PLACED AROUND THE LOCATION OF PROFILER TERMINATION TO PROTECT IT FROM POTENTIAL DAMAGE BY CONSTRUCTION TRAFFIC.

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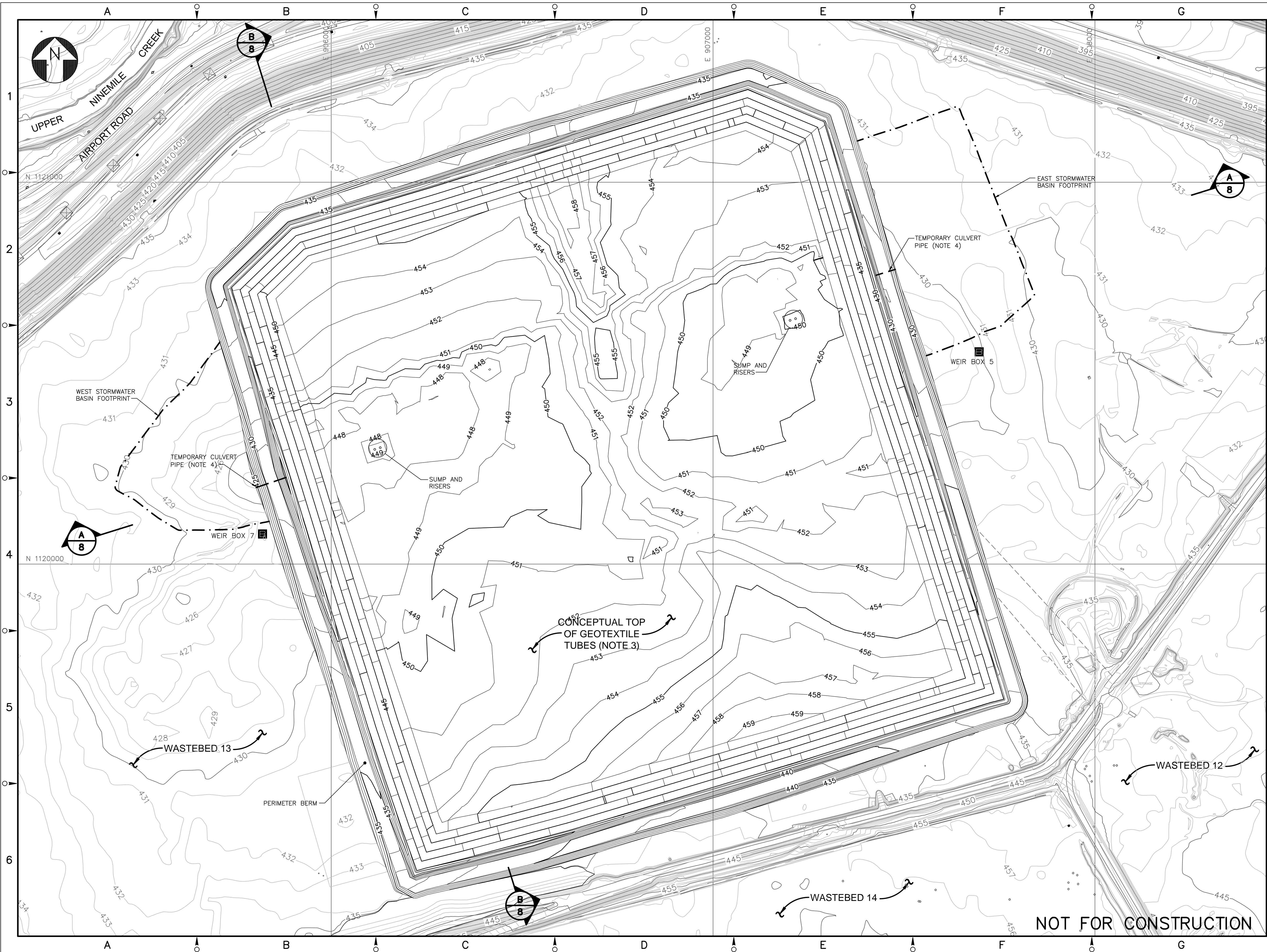
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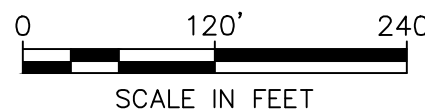


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2. THE SCA DESIGN SHOWN ON THIS DRAWING IS FOR A CAPACITY OF UP TO 2.65 MILLION CUBIC YARDS.
3. THE TOP OF GEOTEXTILE TUBE ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON SETTLEMENT CALCULATIONS PERFORMED TO ESTIMATE ELEVATIONS AT THE END OF 4 YEARS OF DEWATERING OPERATIONS. ACTUAL ELEVATIONS MAY VARY FROM THE CALCULATED ELEVATIONS.
4. TEMPORARY CULVERT PIPES SHALL BE PLUGGED WITH BENTONITE BEFORE INSTALLING THE FINAL COVER PER THE DETAIL SHOWN ON DRAWING 19.

LEGEND

- 430 — EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- 440 — PROPOSED PERIMETER BERM
- — EXISTING ROAD
- WEIR BOX 5



SCALE IN FEET

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PROJECT MGR.	DATE	JAN 2010			

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DRAWING TITLE
CONCEPTUAL TOP OF
GEOTEXTILE TUBES

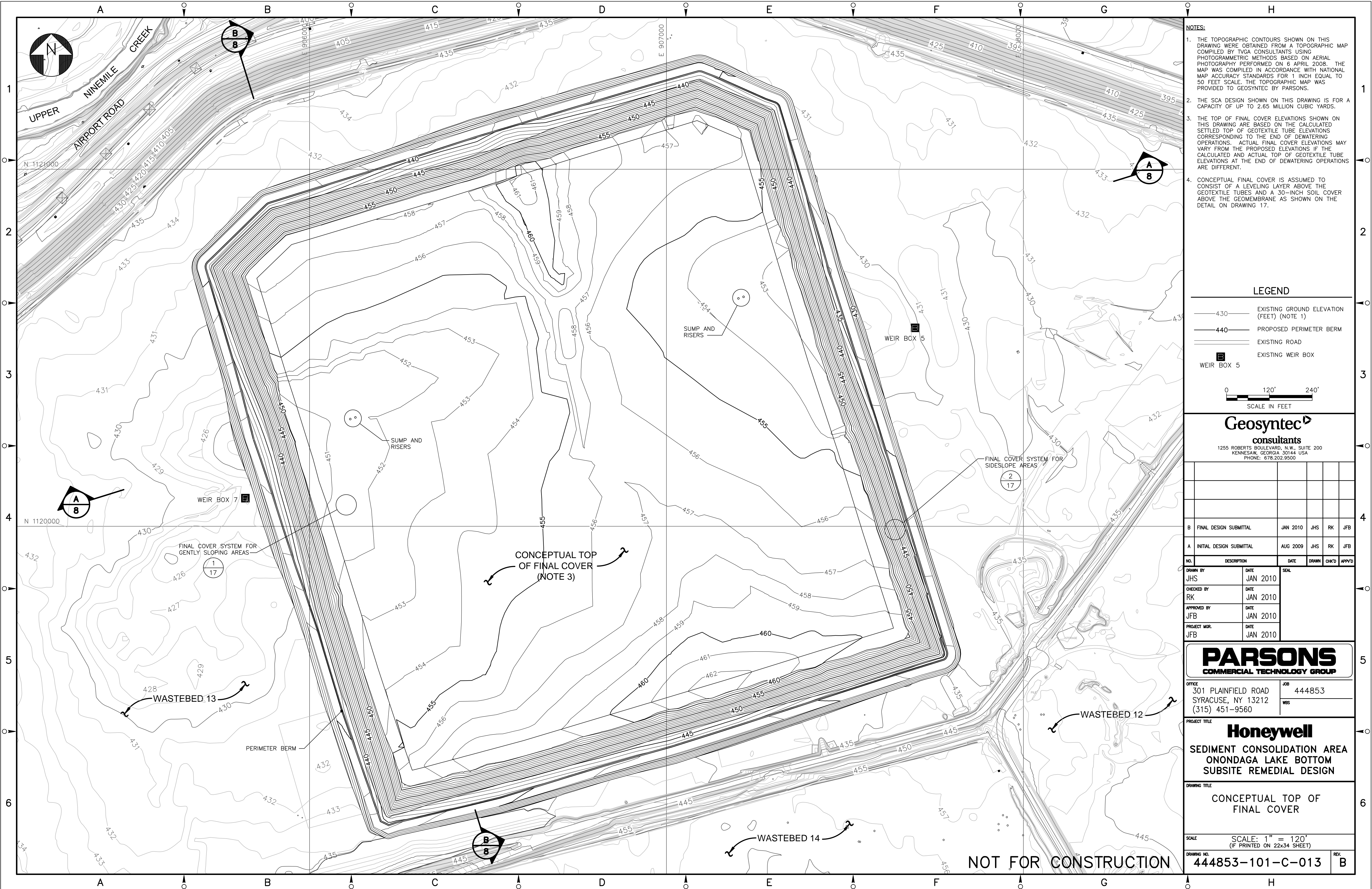
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 4. CONCEPTUAL FINAL COVER IS ASSUMED TO CONSIST OF A LEVELING LAYER ABOVE THE GEOTEXTILE TUBES AND A 30-INCH SOIL COVER ABOVE THE GEOMEMBRANE AS SHOWN ON THE DETAIL ON DRAWING 17.

LEGEND

- 430 — EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- 440 — PROPOSED PERIMETER BERM
- — EXISTING ROAD
- EXISTING WEIR BOX
- WEIR BOX 5

0 120' 240'
SCALE IN FEET

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CHECKED BY	RK	DATE	JAN 2010		
APPROVED BY	JFB	DATE	JAN 2010		
PROJECT MGR.	JFB	DATE	JAN 2010		

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Honeywell
SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN

DRAWING TITLE
CONCEPTUAL TOP OF
FINAL COVER

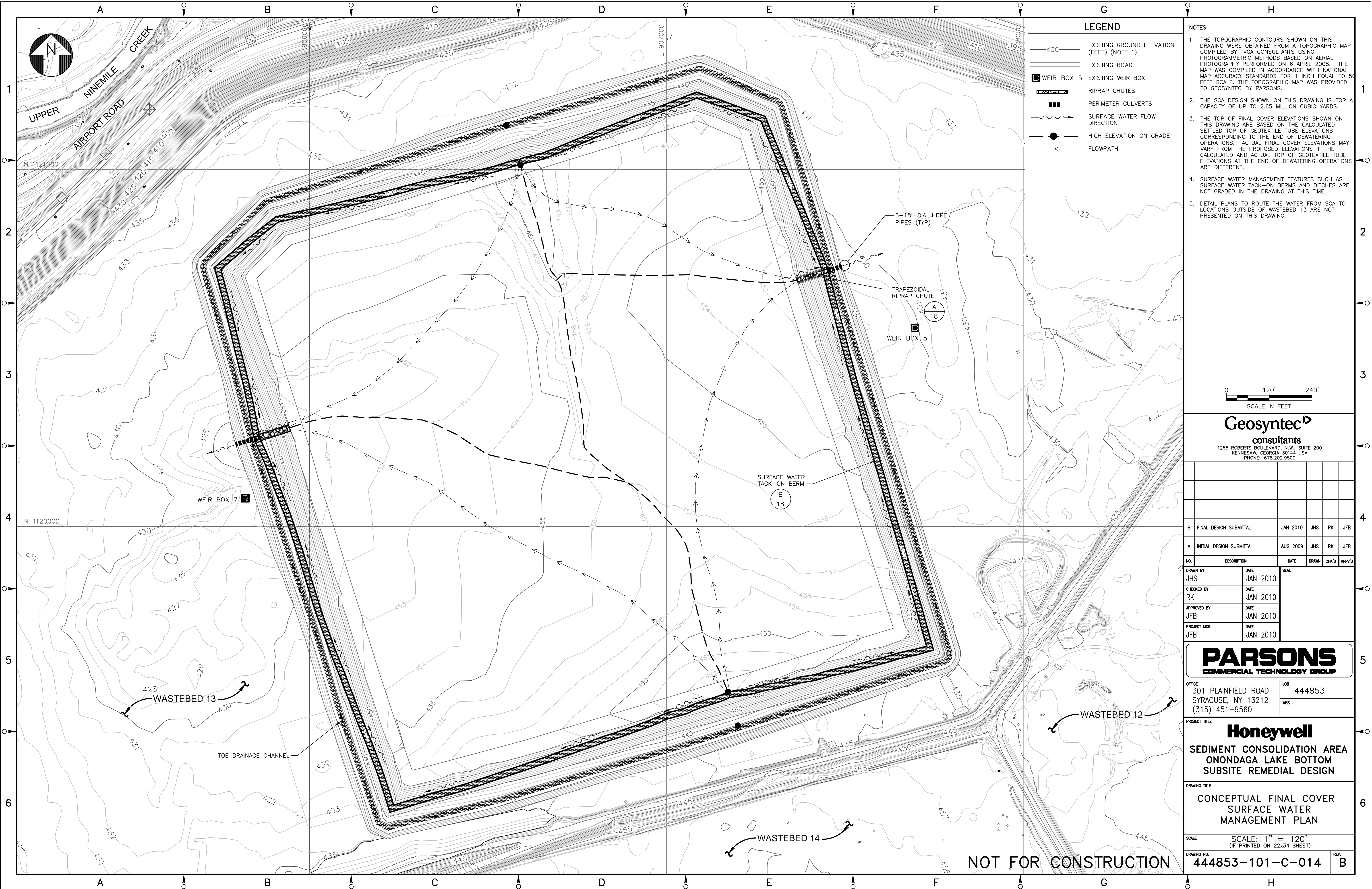
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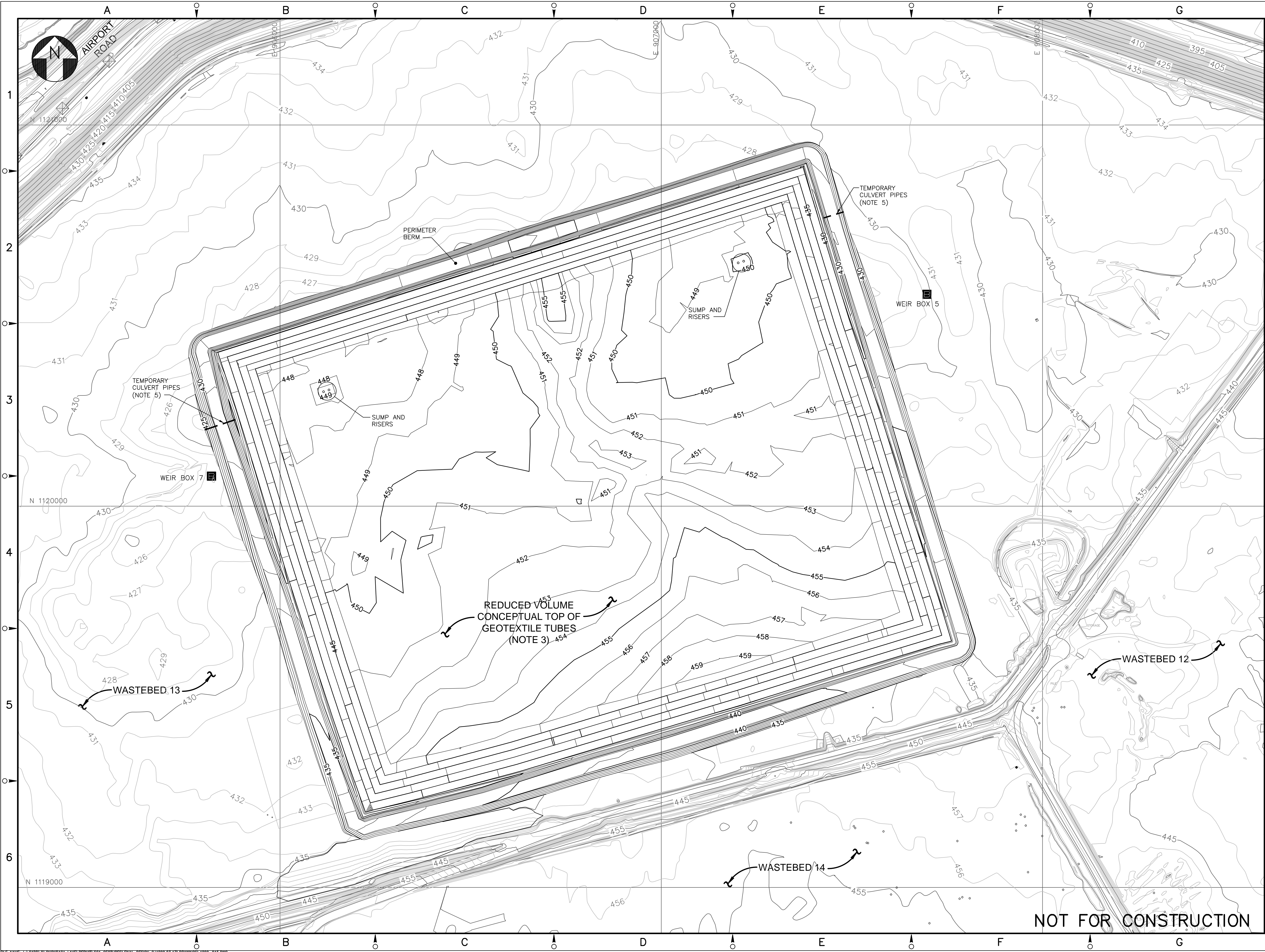
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- NOTES:**
1. THE TOPOGRAPHIC CONTOURS SHOWN ON THIS DRAWING WERE OBTAINED FROM A TOPOGRAPHIC MAP COMPILED BY TVGA CONSULTANTS USING PHOTOGRAMMETRIC METHODS BASED ON AERIAL PHOTOGRAPHY PERFORMED ON 6 APRIL 2008. THE MAP WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH EQUAL TO 50 FEET SCALE. THE TOPOGRAPHIC MAP WAS PROVIDED TO GEOSYNTEC BY PARSONS.
 2. THE SCA DESIGN SHOWN ON THIS DRAWING IS FOR A CAPACITY OF UP TO 2.0 MILLION CUBIC YARDS. FOR THIS REDUCED VOLUME, PHASE III IS NOT REQUIRED.
 3. THE TOP OF GEOTEXTILE TUBE ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON SETTLEMENT CALCULATIONS PERFORMED TO ESTIMATE ELEVATIONS AT THE END OF 4 YEARS OF DEWATERING OPERATIONS. ACTUAL ELEVATIONS MAY VARY FROM THE CALCULATED ELEVATIONS.
 4. THE SETTLEMENTS FOR THE 1.9 MILLION CUBIC YARDS OPTION WERE ESTIMATED BASED ON CALCULATIONS PERFORMED FOR THE 2.65 MILLION CUBIC YARDS OPTION.
 5. TEMPORARY CULVERT PIPES SHALL BE PLUGGED WITH BENTONITE BEFORE INSTALLING THE FINAL COVER PER THE DETAIL SHOWN ON DRAWING 19.

LEGEND

— 430 —	EXISTING GROUND ELEVATION (FEET) (NOTE 1)
— 440 —	PROPOSED PERIMETER BERM
— —	EXISTING ROAD
	EXISTING WEIR BOX

WEIR BOX 5

0 120' 240'
SCALE IN FEET

Geosyntec consultants 1255 ROBERTS BOULEVARD, N.W., SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.9500					
B	FINAL DESIGN SUBMITTAL	JAN 2010	JHS	RK	JFB
A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB
NO.	DESCRIPTION	DATE	DRAWN	CHKD	APPVD
DRAWN BY	JHS	DATE	JAN 2010	SEAL	
CHECKED BY	RK	DATE	JAN 2010		
APPROVED BY	JFB	DATE	JAN 2010		
PROJECT MGR.	JFB	DATE	JAN 2010		

PARSONS
COMMERCIAL TECHNOLOGY GROUP

OFFICE 301 PLAINFIELD ROAD SYRACUSE, NY 13212 (315) 451-9560	JOB 444853 WBS
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PROJECT TITLE
Honeywell
SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN

DRAWING TITLE
REDUCED VOLUME CONCEPTUAL
TOP OF GEOTEXTILE TUBES

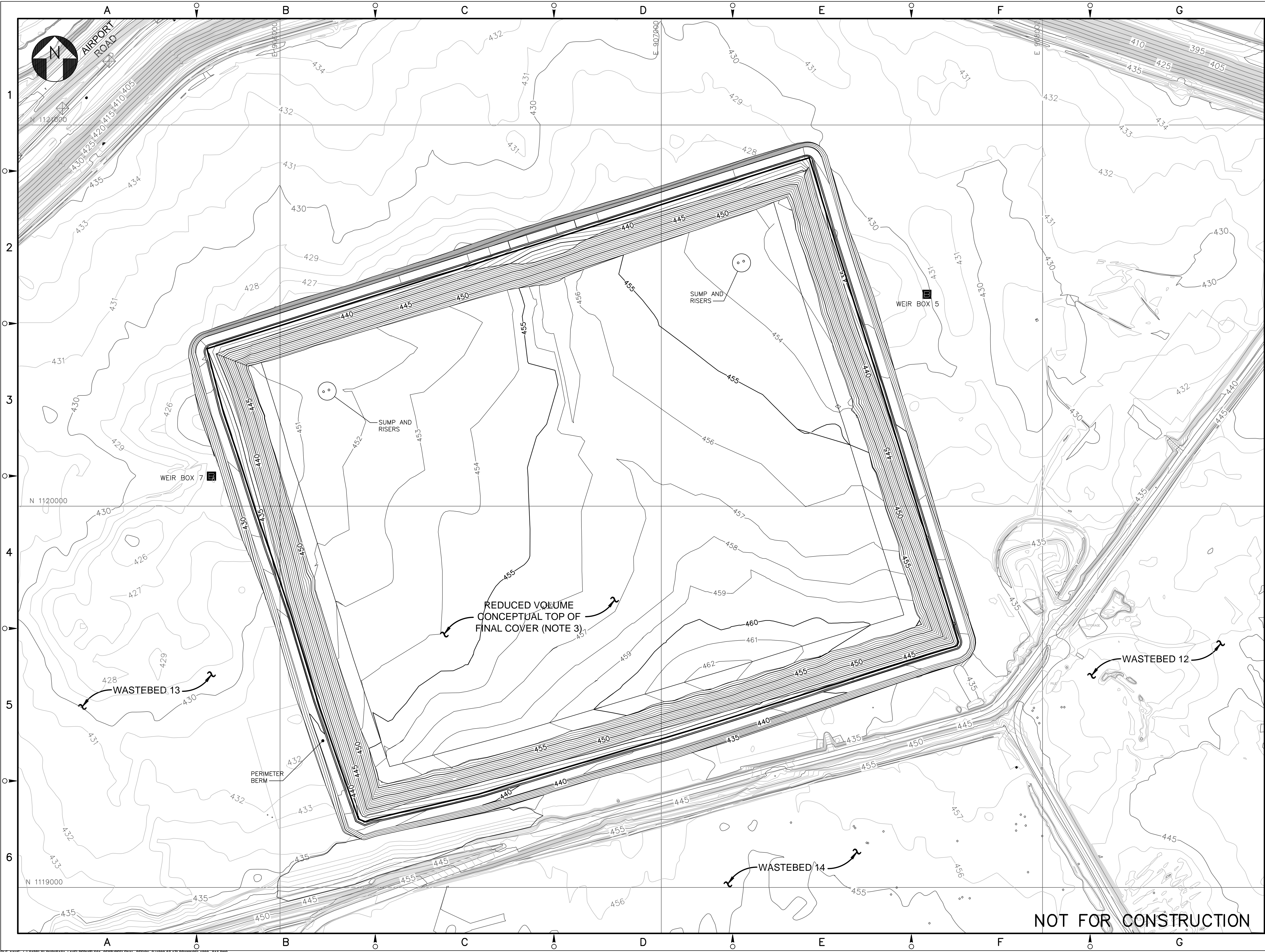
SCALE
SCALE: 1" = 120'
(IF PRINTED ON 22x34 SHEET)

DRAWING NO.
444853-101-C-015

REV.
B

NOT FOR CONSTRUCTION

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- NOTES:**
1. THE TOPOGRAPHIC CONTOURS SHOWN ON THIS DRAWING WERE OBTAINED FROM A TOPOGRAPHIC MAP COMPILED BY TVGA CONSULTANTS USING PHOTOGRAMMETRIC METHODS BASED ON AERIAL PHOTOGRAPHY PERFORMED ON 6 APRIL 2008. THE MAP WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FOR 1 INCH EQUAL TO 50 FEET SCALE. THE TOPOGRAPHIC MAP WAS PROVIDED TO GEOSYNTEC BY PARSONS.
 2. THE SCA DESIGN SHOWN ON THIS DRAWING IS FOR A CAPACITY OF UP TO 2.0 MILLION CUBIC YARDS. FOR THIS REDUCED VOLUME, PHASE III IS NOT REQUIRED.
 3. THE TOP OF FINAL COVER ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON THE CALCULATED SETTLED TOP OF GEOTEXTILE TUBE ELEVATIONS CORRESPONDING TO THE END OF DEWATERING OPERATIONS. ACTUAL FINAL COVER ELEVATIONS MAY VARY FROM THE PROPOSED ELEVATIONS IF THE CALCULATED AND ACTUAL TOP OF GEOTEXTILE TUBE ELEVATIONS AT THE END OF DEWATERING OPERATIONS ARE DIFFERENT.
 4. CONCEPTUAL FINAL COVER IS ASSUMED TO CONSIST OF A 3-INCH LEVELING LAYER ABOVE THE GEOTEXTILE TUBES AND A 30-INCH SOIL COVER ABOVE THE GEOMEMBRANE AS SHOWN ON THE DETAIL ON DRAWING 17.

LEGEND

- 430 — EXISTING GROUND ELEVATION (FEET) (NOTE 1)
- 440 — PROPOSED PERIMETER BERM
- — EXISTING ROAD
- WEIR BOX 5

0 120' 240'
SCALE IN FEET

Geosyntec
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PHONE: 678.202.9500

B	FINAL DESIGN SUBMITTAL	JAN 2010	JHS	RK	JFB
A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB

NO.	DESCRIPTION	DATE	DRAWN	CHKD	APPVD
DRAWN BY	JHS	DATE	JAN 2010	SEAL	
CHECKED BY	RK	DATE	JAN 2010		
APPROVED BY	JFB	DATE	JAN 2010		
PROJECT MGR.	JFB	DATE	JAN 2010		

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(315) 451-9560

JOB: 444853
WBS:

Honeywell
SEDIMENT CONSOLIDATION AREA
ONONDAGA LAKE BOTTOM
SUBSITE REMEDIAL DESIGN

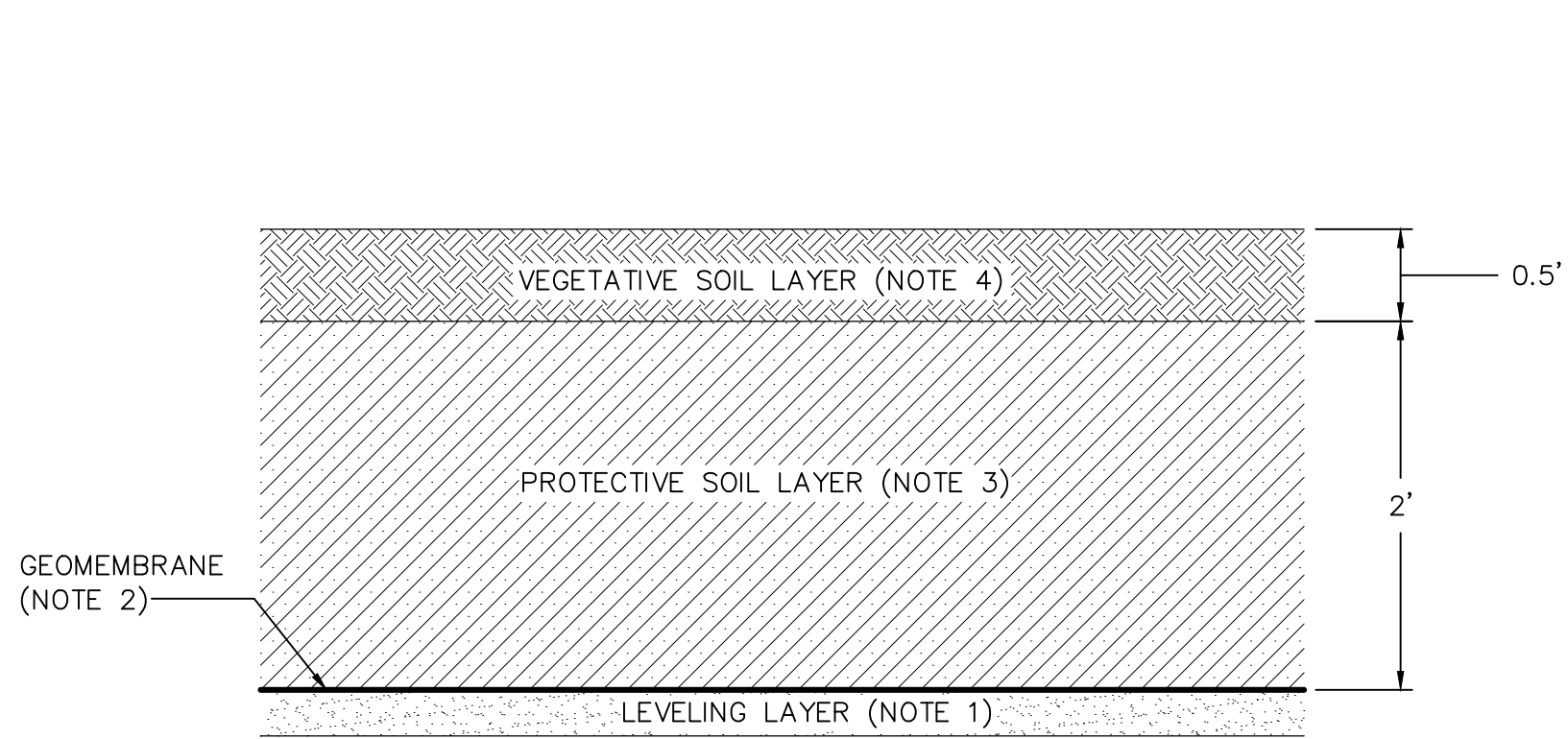
DRAWING TITLE
**REDUCED VOLUME CONCEPTUAL
TOP OF FINAL COVER**

SCALE: 1" = 120'
(IF PRINTED ON 22x34 SHEET)

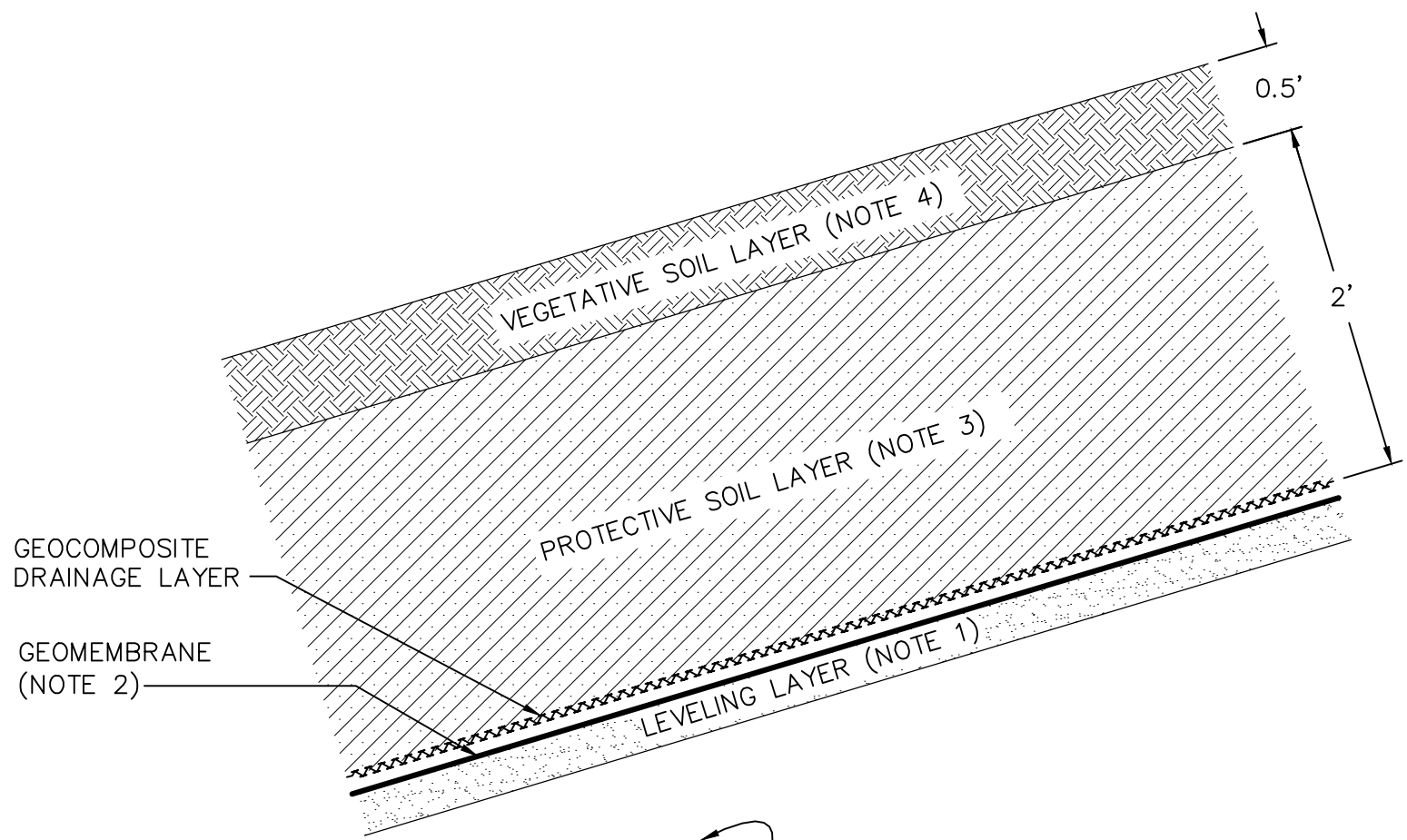
DRAWING NO. **444853-101-C-016** REV. **B**

NOT FOR CONSTRUCTION

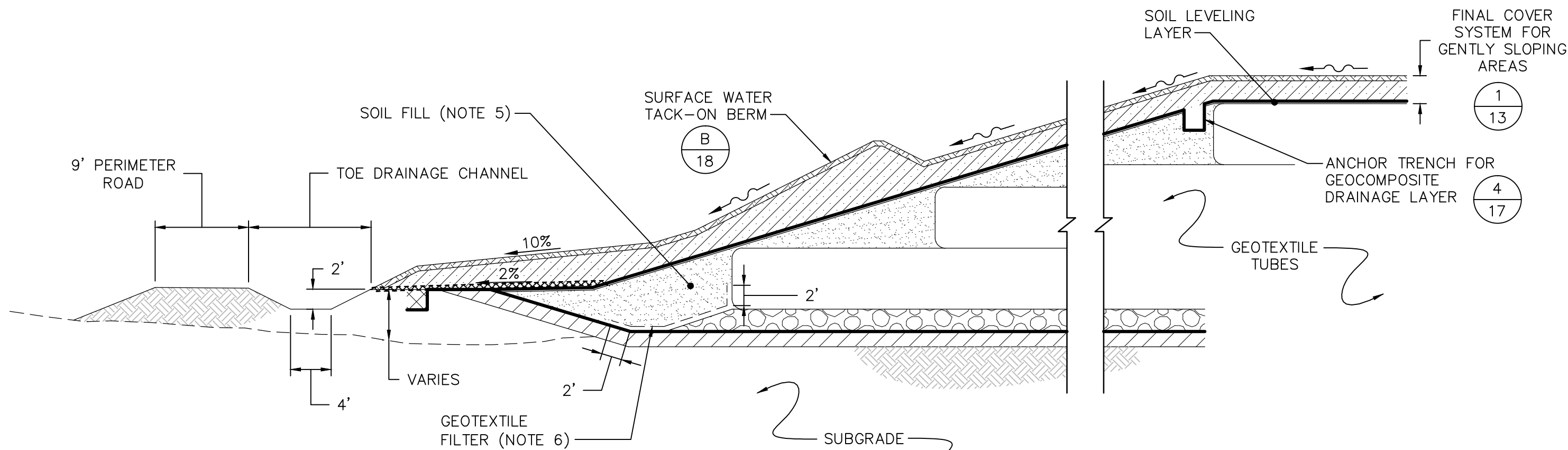
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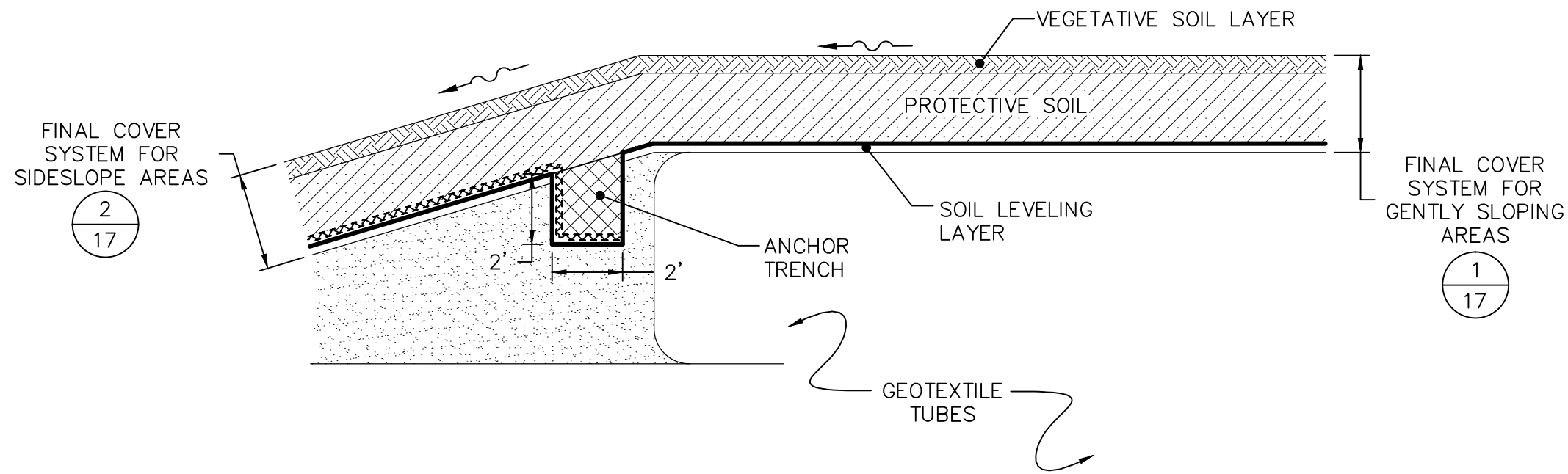
1
13 DETAIL
FINAL COVER SYSTEM FOR GENTLY SLOPING AREAS
SCALE: 1" = 1'
XREF: 4290X010



2
13 DETAIL
FINAL COVER SYSTEM FOR SIDESLOPE AREAS
SCALE: 1" = 1'
XREF: 4290X010



3
17 DETAIL
CONCEPTUAL FINAL COVER TIE-IN TO PERIMETER BERM
SCALE: 1" = 10'
XREF: 4290X010



4
17 DETAIL
ANCHOR TRENCH FOR GEOCOMPOSITE DRAINAGE LAYER
SCALE: 1" = 4'
XREF: 4290X010

NOTES:

1. LEVELING LAYER MAY CONSIST OF SEPARATED PARTICLES FROM THE DREDGE MATERIAL. LOW GROUND PRESSURE EQUIPMENT SHALL BE USED TO PLACE THE LEVELING LAYER. THE ENGINEER OF RECORD SHALL EVALUATE THE NEED FOR A GEOTEXTILE CUSHION ABOVE THE LEVELING LAYER BASED ON THE ACTUAL MATERIAL PROPERTIES AT THE TIME OF PLACEMENT.
2. A 40 mil LLDPE GEOMEMBRANE SHALL BE INSTALLED ON THE LEVELING LAYER. THE GEOMEMBRANE SHALL BE TEXTURED ON BOTH SIDES IN THE SIDESLOPE AREAS AND EXTEND 10 FEET INTO THE GENTLY SLOPING AREAS. A SMOOTH GEOMEMBRANE CAN BE USED IN THE GENTLY SLOPING AREAS.
3. A 24 INCH THICK PROTECTIVE SOIL LAYER SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT TECHNICAL SPECIFICATIONS.
4. A 6 INCH THICK VEGETATIVE SOIL LAYER SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT TECHNICAL SPECIFICATIONS.
5. SOIL FILL MAY CONSIST OF SEPARATED PARTICLES FROM THE DREDGE MATERIAL.
6. THE GEOTEXTILE FILTER SHALL HAVE A MINIMUM DENSITY OF 8 oz PER yd².

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A	INITIAL DESIGN SUBMITTAL	AUG 2009	JHS	RK	JFB
NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
JHS	JAN 2010				
CHK'D BY	DATE				
RK	JAN 2010				
APPROVED BY	DATE				
JFB	JAN 2010				
PROJECT MGR.	DATE				
JFB	JAN 2010				

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LIVERPOOL, NY 13088
(315) 451-9560

JOB
444853
WBS

PROJECT TITLE
Honeywell
ONONDAGA LAKE DESIGN

DRAWING TITLE
FINAL COVER
SYSTEM DETAILS

SCALE
SCALE: AS SHOWN
(IF PRINTED ON 22x34 SHEET)

DRAWING NO.
444853-101-C-017

REV.
B

CULVERT, RIPRAP, AND TACK-ON BERM INTERSECTION

SCALE: 1" = 10'

XREF: 4299X010

DETAIL

CONCEPTUAL FINAL COVER AT RIPRAP CHUTE LOCATION

SCALE: 1" = 10'

XREF: 4299X010

SECTION A-A

TRAPEZOIDAL RIPRAP CHUTE

SCALE: 1" = 4'

XREF: 4299X010

SECTION B-B

SURFACE WATER TACK-ON BERM

SCALE: 1" = 2'

XREF: 4299X010

Geosyntec consultants

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NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
JHS	DRAWN BY	JAN 2010			
RK	CHECKED BY	JAN 2010			
JFB	APPROVED BY	JAN 2010			
JFB	PROJECT MGR.	JAN 2010			

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JOB: 444853

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Honeywell ONONDAGA LAKE DESIGN

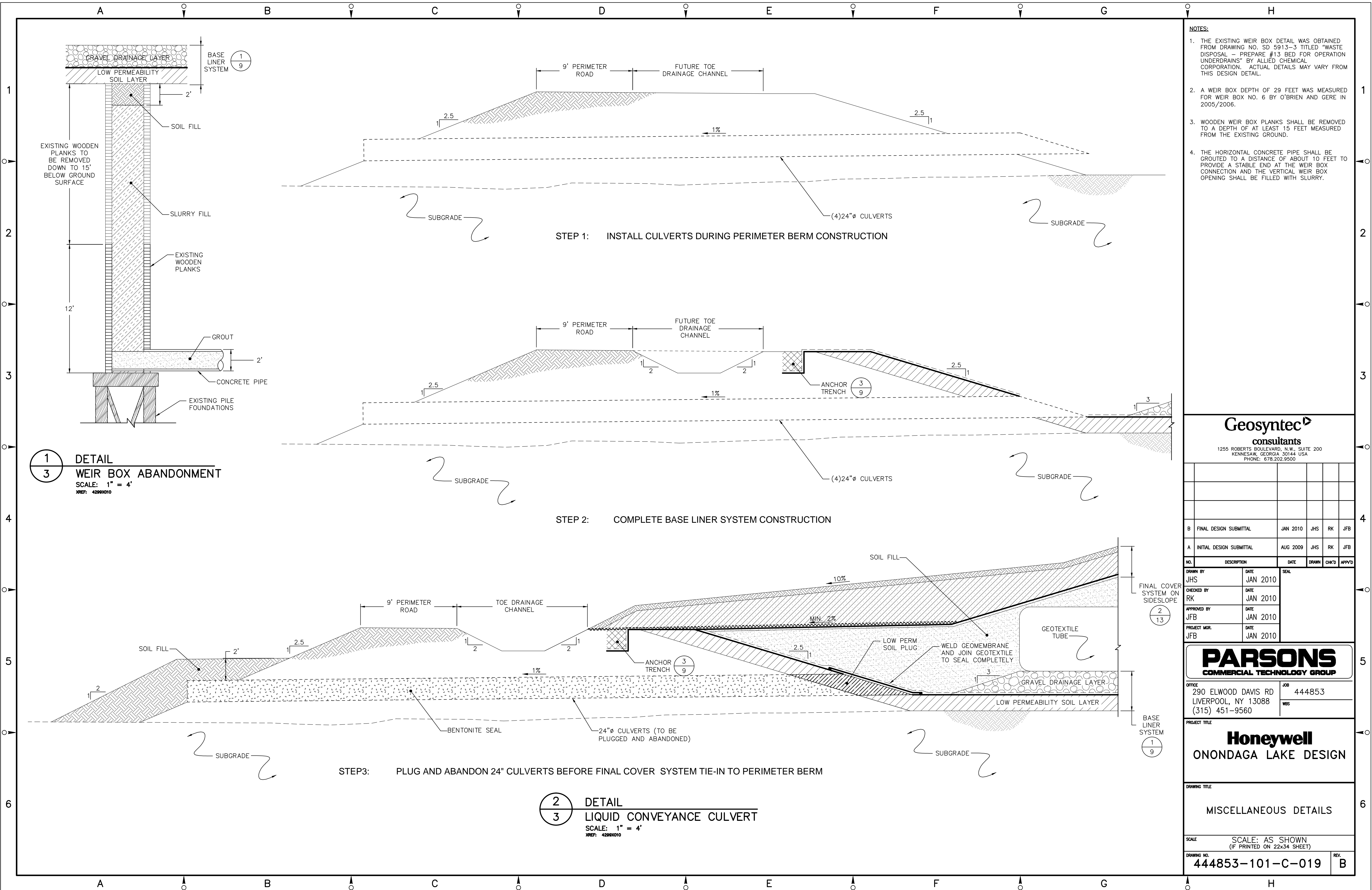
SURFACE WATER MANAGEMENT DETAILS

SCALE: AS SHOWN
(IF PRINTED ON 22x34 SHEET)

DRAWING NO.: 444853-101-C-018

REV. B

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- NOTES:**
1. THE EXISTING WEIR BOX DETAIL WAS OBTAINED FROM DRAWING NO. SD 5913-3 TITLED "WASTE DISPOSAL - PREPARE #13 BED FOR OPERATION UNDERDRAINS" BY ALLIED CHEMICAL CORPORATION. ACTUAL DETAILS MAY VARY FROM THIS DESIGN DETAIL.
 2. A WEIR BOX DEPTH OF 29 FEET WAS MEASURED FOR WEIR BOX NO. 6 BY O'BRIEN AND GERE IN 2005/2006.
 3. WOODEN WEIR BOX PLANKS SHALL BE REMOVED TO A DEPTH OF AT LEAST 15 FEET MEASURED FROM THE EXISTING GROUND.
 4. THE HORIZONTAL CONCRETE PIPE SHALL BE GROUTED TO A DISTANCE OF ABOUT 10 FEET TO PROVIDE A STABLE END AT THE WEIR BOX CONNECTION AND THE VERTICAL WEIR BOX OPENING SHALL BE FILLED WITH SLURRY.

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JFB	APPROVED BY	JAN 2010			
JFB	PROJECT MGR.	JAN 2010			

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Honeywell
ONONDAGA LAKE DESIGN

DRAWING TITLE
MISCELLANEOUS DETAILS

SCALE: AS SHOWN
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