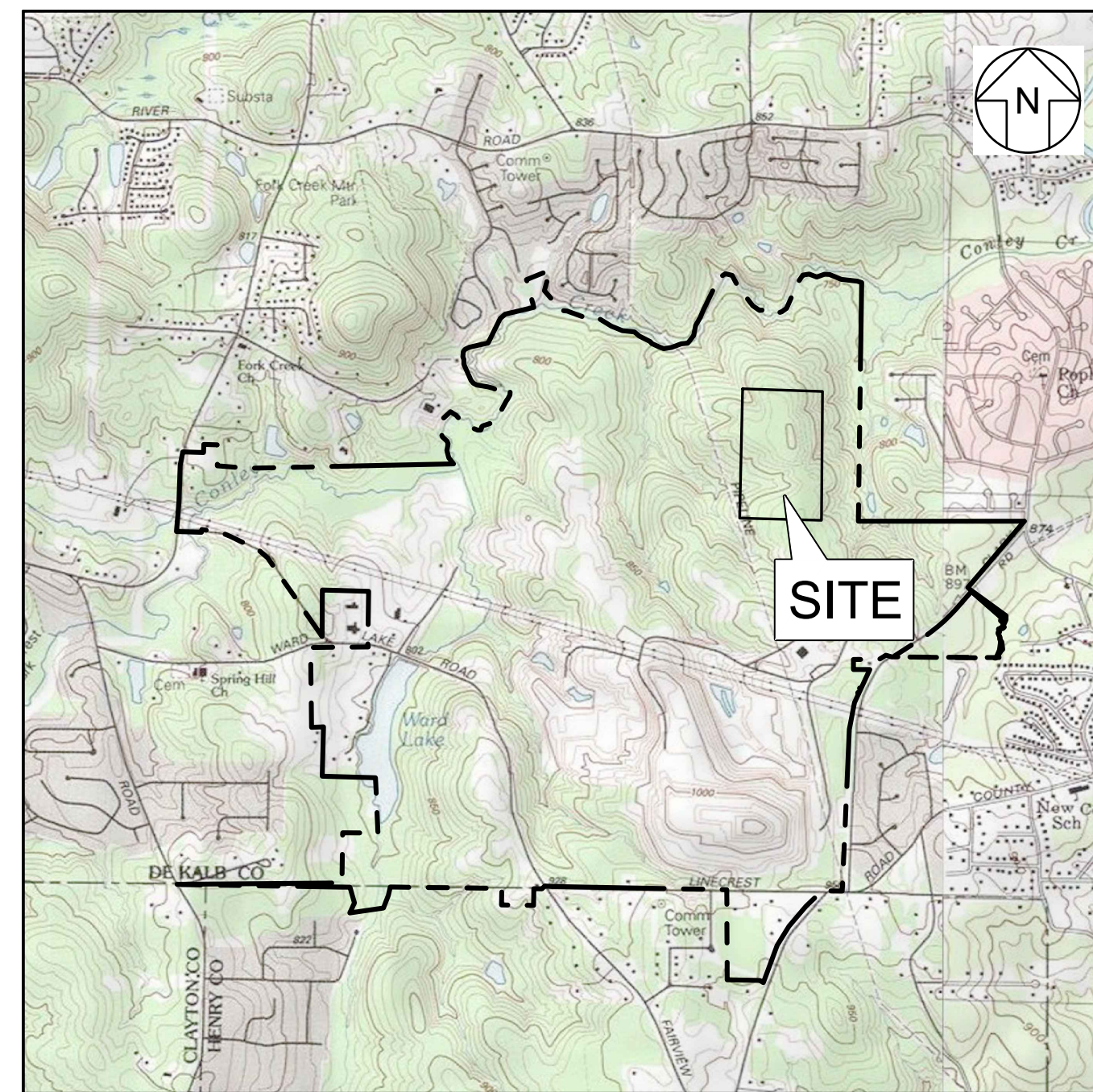


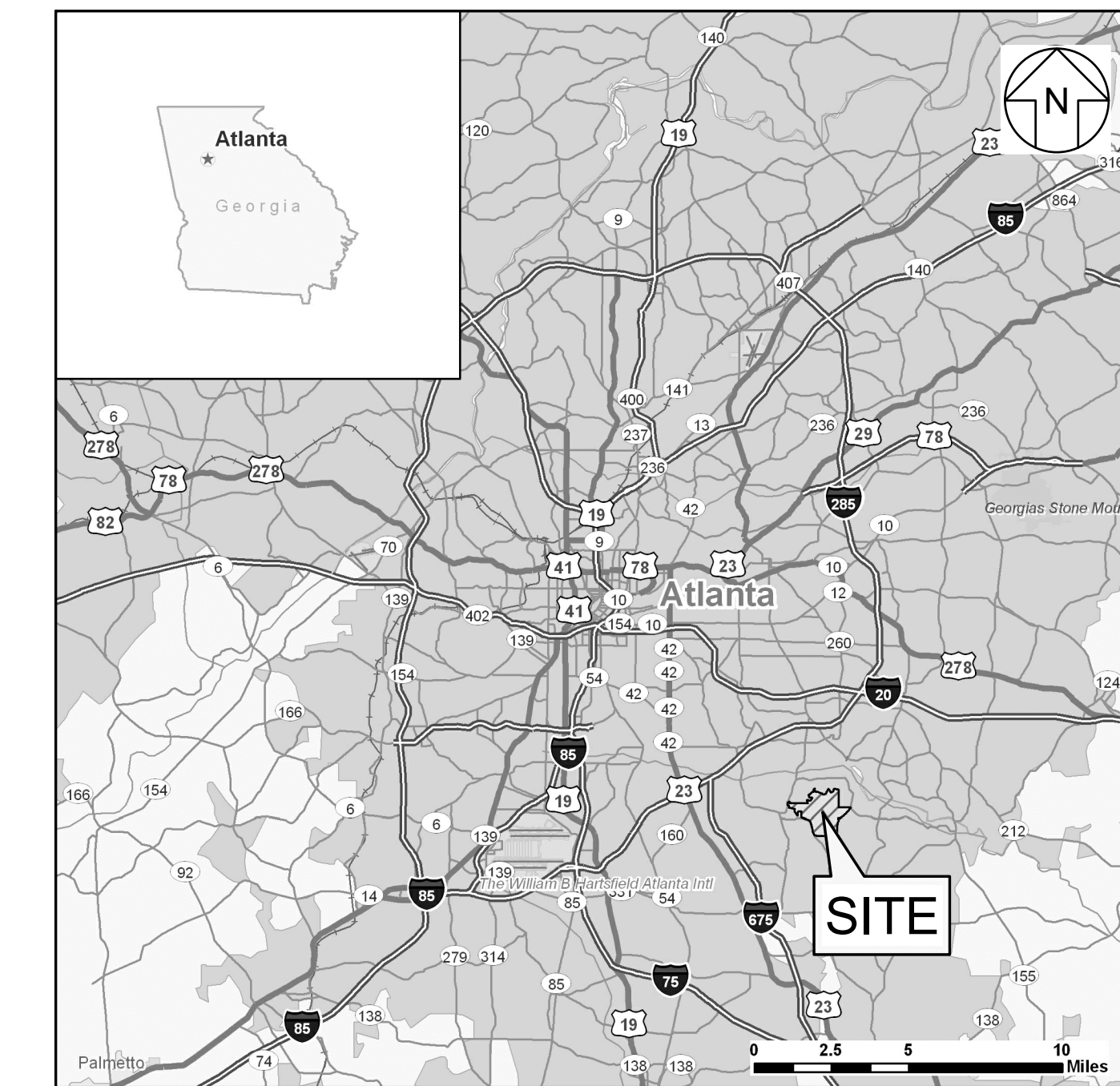
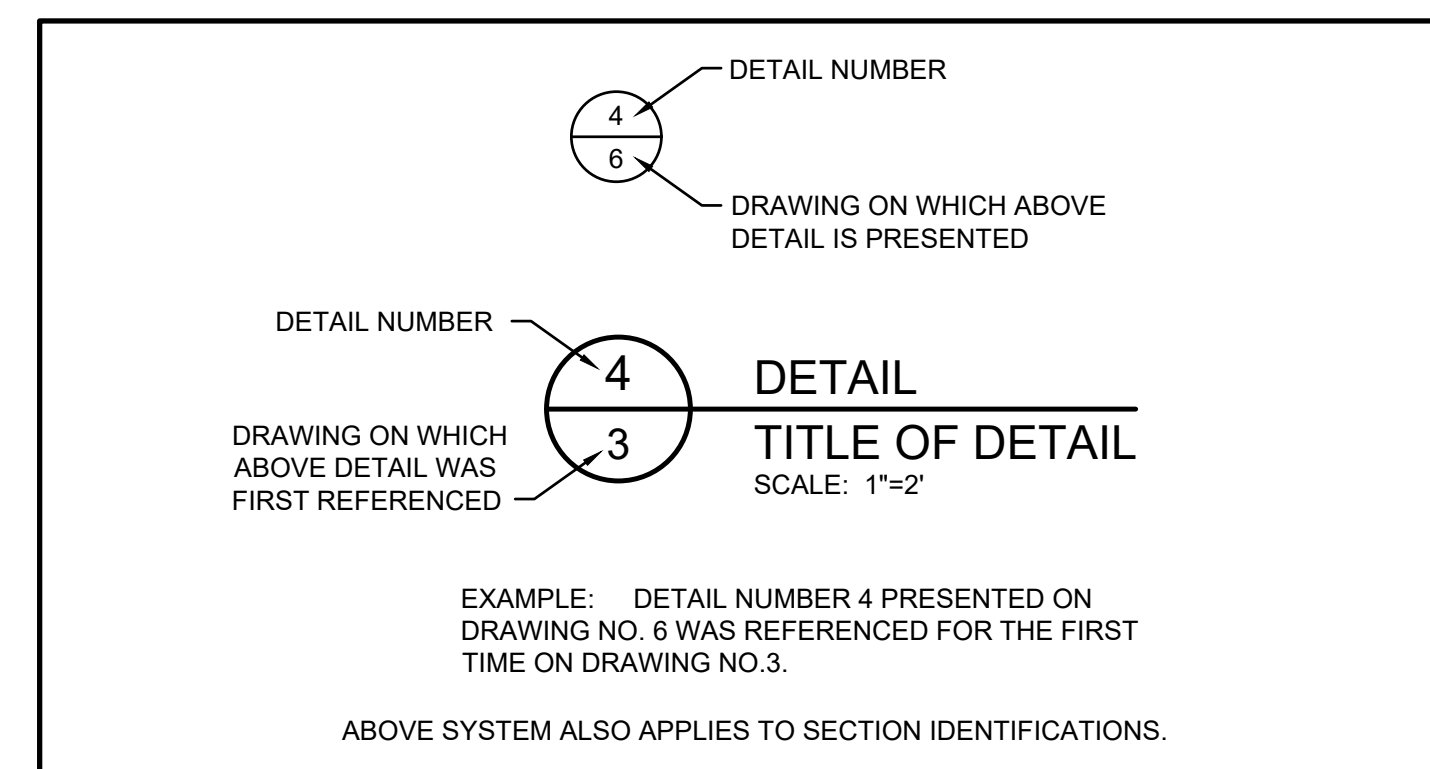
INVITATION TO BID NO. XX-XXXXXX  
**CONSTRUCTION DRAWINGS**  
 GAS COLLECTION AND CONTROL SYSTEM (GCCS) EXPANSION  
 PHASE 3 UNIT 3  
 SEMINOLE ROAD LANDFILL  
 DEKALB COUNTY, GEORGIA  
 PROJECT NO. GD5409  
 AUGUST 2017



VICINITY MAP  
NOT TO SCALE

**LIST OF DRAWINGS**

DRAWING NO.	DRAWING TITLE
1	COVER SHEET
2	EXISTING CONDITIONS
3	GCCS EXPANSION ON PROJECTED TOP OF LANDFILL ELEVATIONS
4	GCCS EXPANSION ON TOP OF CLAY LINER GRADES
5	HEADER ACCESS RISER (HAR) PLAN
6	HEADER PIPE PLAN AND PROFILE
7	GCCS DETAILS I
8	GCCS DETAILS II
9	GCCS DETAILS III



LOCATION MAP  
NOT TO SCALE

PREPARED FOR:



**DEKALB COUNTY**  
 PUBLIC WORKS DEPARTMENT  
 SANITATION DIVISION  
 SEMINOLE ROAD LANDFILL  
 4203 CLEVEMONT ROAD  
 ELLENWOOD, GEORGIA 30294

OWNER:  
 TRACY HUTCHINSON  
 INTERIM DEPUTY DIRECTOR  
 404.713.2501

24 HOUR CONTACT:  
 ROGER YOUNG  
 SUPERINTENDENT  
 404.687.4018

PREPARED BY:



1255 ROBERTS BOULEVARD, NW, SUITE 200  
 KENNESAW, GEORGIA 30144-3694  
 TELEPHONE: 678.202.9500

DRAFT

REV	DATE	DESCRIPTION	DRN	APP
A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY	JJA	JAS

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

SEMUNOLE ROAD LANDFILL  
 4203 CLEVEMONT ROAD  
 ELLENWOOD, GEORGIA 30294 USA

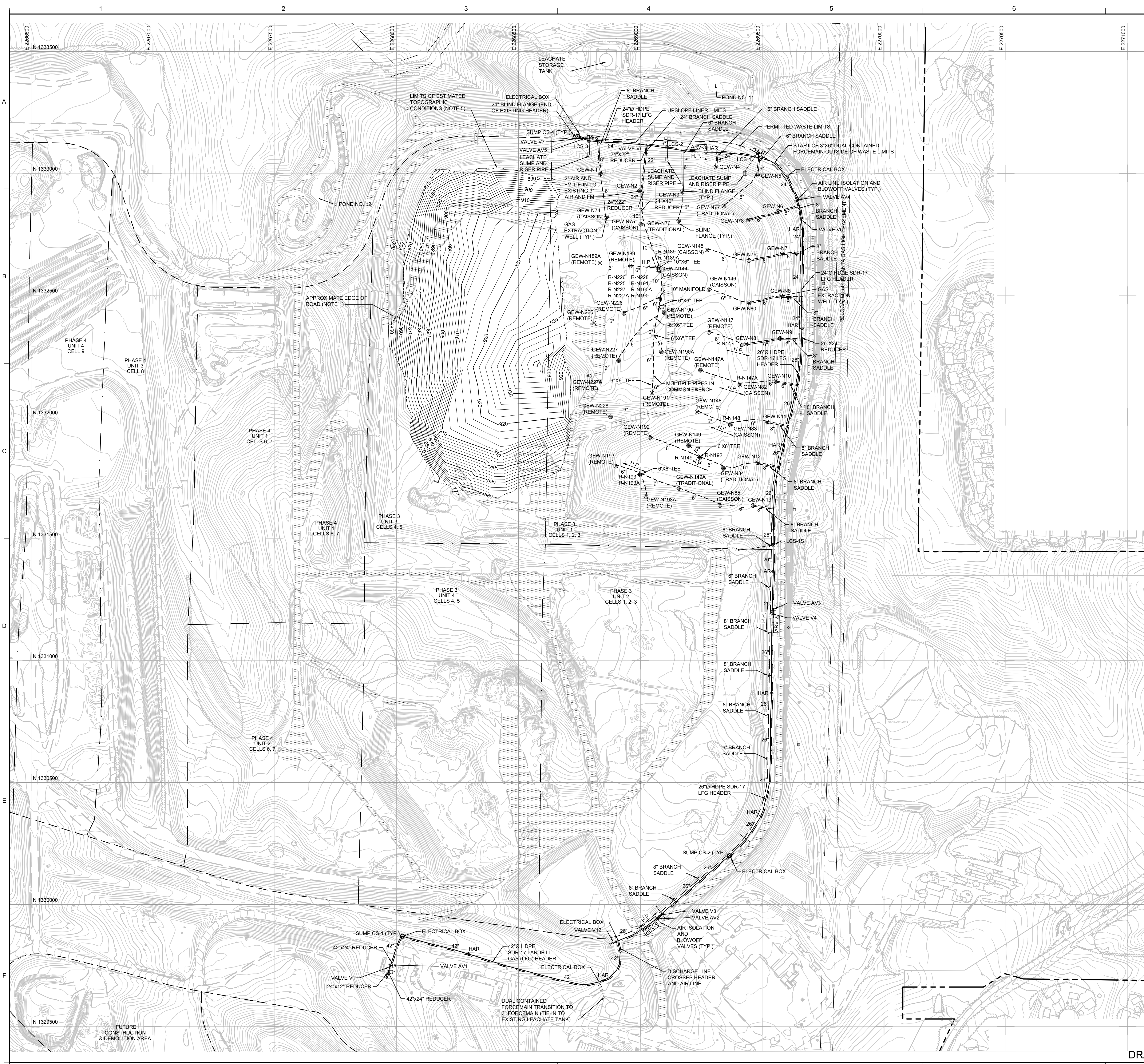
**COVER SHEET**

PROJECT: GCCS - PHASE 3 UNIT 3 EXPANSION

SITE: SEMINOLE ROAD LANDFILL  
DEKALB COUNTY, GEORGIA

<small>THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.</small>  SIGNATURE _____ DATE _____	<div style="font-size: 2em; font-weight: bold; transform: rotate(-45deg); opacity: 0.5;">DRAFT</div> <table border="1"> <tr> <td>DESIGN BY: JAS</td> <td>DATE: AUGUST 2017</td> </tr> <tr> <td>DRAWN BY: SRN/JJA</td> <td>PROJECT NO.: GD5409</td> </tr> <tr> <td>CHECKED BY: MAO</td> <td>FILE: 5409-001</td> </tr> <tr> <td>REVIEWED BY: HA</td> <td>DRAWING NO.: _____</td> </tr> <tr> <td>APPROVED BY: JAS</td> <td style="text-align: center;">1 OF 9</td> </tr> </table>	DESIGN BY: JAS	DATE: AUGUST 2017	DRAWN BY: SRN/JJA	PROJECT NO.: GD5409	CHECKED BY: MAO	FILE: 5409-001	REVIEWED BY: HA	DRAWING NO.: _____	APPROVED BY: JAS	1 OF 9
DESIGN BY: JAS	DATE: AUGUST 2017										
DRAWN BY: SRN/JJA	PROJECT NO.: GD5409										
CHECKED BY: MAO	FILE: 5409-001										
REVIEWED BY: HA	DRAWING NO.: _____										
APPROVED BY: JAS	1 OF 9										

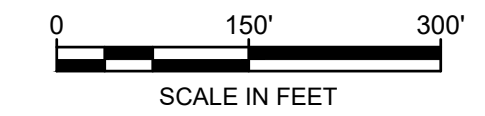




### LEGEND

	EXISTING 2' CONTOURS (NOTE 1)
	EXISTING 10' CONTOURS (NOTE 1)
	ESTIMATED 2' CONTOURS (NOTE 1)
	ESTIMATED 10' CONTOURS (NOTE 1)
	LIMITS OF ESTIMATED TOPOGRAPHIC CONDITIONS (NOTE 5)
	TREE LINE
	FENCE LINE
	PROPERTY BOUNDARY
	GAS EASEMENT
	PHASE/UNIT LIMITS
	UPSLOPE LINER LIMITS
	EXISTING GAS LATERAL PIPE
	EXISTING LANDFILL GAS EXTRACTION WELL
	PERMITTED WASTE LIMITS
	EXISTING MANHOLE
	EXISTING LFG HEADER
	EXISTING CONDENSATE KNOCKOUT SUMP WITH ELECTRIC PUMP
	APPROXIMATE ACCESS ROAD (NOTE 1)
	HIGH POINT
	EXISTING LEACHATE CLEANOUT WELLHEAD
	EXISTING HEADER ACCESS RISER (HAR)
	EXISTING LEACHATE SUMP AND RISER PIPE
	EXISTING AIR ISOLATION AND BLOW OFF VALVES
	EXISTING CONDENSATE FORCEMAIN AIR RELEASE VALVE
	EXISTING HEADER/LATERAL BLIND FLANGE
	EXISTING REMOTE WELLHEAD DESIGNATION

- NOTES:**
1. THE EXISTING CONDITIONS TOPOGRAPHIC MAP SHOWN ON THIS DRAWING WAS PHOTOGRAPHED ON 1 SEPTEMBER 2016 BY SOUTHERN RESOURCES MAPPING CORPORATION OF NORTHPORT, ALABAMA. THE SURVEY INFORMATION HAS NOT BEEN FIELD VERIFIED. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL VERIFY THE ACCURACY OF SURVEY INFORMATION IN THE PROJECT AREA AND SHALL IMMEDIATELY NOTIFY THE COUNTY REPRESENTATIVE IF ACTUAL FIELD CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THIS DRAWING.
  2. ABOVE AND BELOW GROUND UTILITIES AND OTHER EXISTING FEATURES IN THE PROJECT AREA SHALL BE FIELD-LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF THE CONTRACTOR ANTICIPATES ANY OF THESE FEATURES WILL IMPACT ABILITY TO IMPLEMENT THE DESIGN SHOWN ON THESE DRAWINGS OR WILL REQUIRE ADDITIONAL DESIGN CONSIDERATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY REPRESENTATIVE.
  3. THE PHASE LIMITS SHOWN ON THIS DRAWING ARE BASED ON A DRAWING TITLED "MASTER PLAN" PROVIDED BY HDR, INC. AND DATED AUGUST 2008. WASTE DISPOSAL IN PHASE 3 UNIT 1 CELLS 1, 2, AND 3 HAS STOPPED AT THIS TIME. PHASE 3 UNIT 3 CELLS 4 AND 5 ARE CURRENTLY ACTIVE AND ACCEPTING WASTE. THE OTHER UNITS OF PHASE 3 AND 4 ARE PROPOSED FOR CONSTRUCTION IN THE FUTURE.
  4. THE EXISTING GCCS WITHIN PHASE 3 UNIT 3 CELLS 1, 2, AND 3 WAS PERFORMED AS PART OF THE "PHASE 3 UNIT 1 GCCS CONSTRUCTION" CONSTRUCTION DRAWINGS IN 2011 AND THE "GCCS EXPANSION AND MODIFICATION" CONSTRUCTION DRAWINGS IN 2014.
  5. THE ESTIMATED TOPOGRAPHIC CONDITIONS IN THE PHASE 3 UNIT 3 CELLS 4 AND 5 VICINITY WERE APPROXIMATED FROM THE PROJECTED ELEVATIONS PROVIDED BY ROGER YOUNG, SUPERINTENDENT OF THE SEMINOLE ROAD LANDFILL ON 2 MAY 2017.



REV	DATE	DESCRIPTION	DRN	APP
A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY	JJA	JAS

**Geosyntec**  
consultants

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

SEMINOLE ROAD LANDFILL  
4203 CLEVELAND ROAD  
ELLENWOOD, GEORGIA 30294 USA

**TITLE:** EXISTING CONDITIONS

**PROJECT:** GCCS - PHASE 3 UNIT 3 EXPANSION

**SITE:** SEMINOLE ROAD LANDFILL  
DEKALB COUNTY, GEORGIA

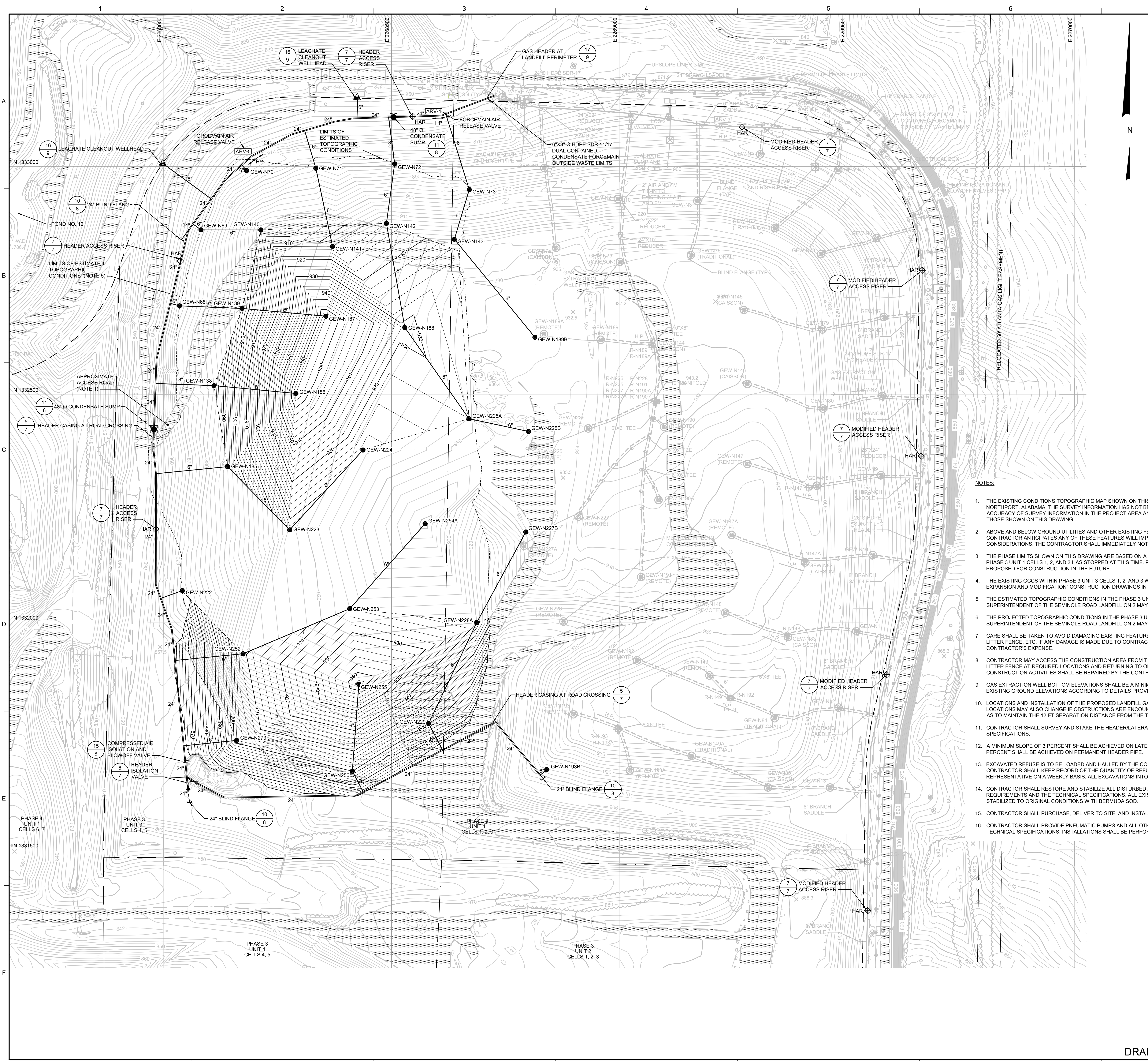
DESIGN BY:	JAS	DATE:	AUGUST 2017
DRAWN BY:	SRN/JJA	PROJECT NO.:	GD5409
CHECKED BY:	MAO	FILE:	5409-002
REVIEWED BY:	HA	DRAWING NO.:	
APPROVED BY:	JAS		2 OF 9

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LOCAL/DEKALB COUNTY LANDFILL CONSTRUCTION/SEMINOLE ROAD LANDFILL - GCCS - 08/08/2017/MSH/3002

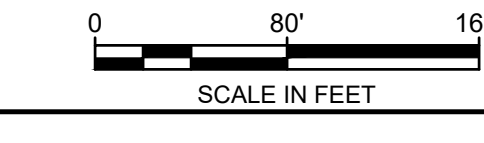




### LEGEND

- EXISTING AND ESTIMATED 2' CONTOURS (NOTES 1 AND 5)
- EXISTING AND ESTIMATED 10' CONTOURS (NOTES 1 AND 5)
- PROJECTED 2' CONTOURS (NOTE 6)
- PROJECTED 10' CONTOURS (NOTE 6)
- TREE LINE
- LIMITS OF ESTIMATED TOPOGRAPHIC CONDITIONS (NOTE 5)
- GAS EASEMENT
- LIMITS OF PROJECTED TOPOGRAPHIC CONDITIONS (NOTE 6)
- PHASE UNIT LIMITS
- UPSLOPE LINER LIMITS
- EXISTING GAS LATERAL PIPE
- EXISTING LANDFILL GAS EXTRACTION WELL
- PERMITTED WASTE LIMITS
- EXISTING MANHOLE
- EXISTING LFG HEADER
- EXISTING CONDENSATE KNOCKOUT SUMP WITH ELECTRIC PUMP
- EXISTING ACCESS ROAD (NOTE 1)
- EXISTING HIGH POINT
- EXISTING LEACHATE CLEANOUT WELLHEAD
- EXISTING HEADER ACCESS RISER (HAR)
- 
- 
- GAS EXTRACTION WELL AND WELL DESIGNATION
- HEADER/LATERAL BLIND FLANGE
- HIGHPOINT
- EXISTING LEACHATE SUMP AND RISER PIPE
- EXISTING LEACHATE COLLECTION SYSTEM REMOTE WELLHEAD
- EXISTING AIR ISOLATION AND BLOW OFF VALVES
- EXISTING CONDENSATE FORCEMAIN AIR RELEASE VALVE
- EXISTING HEADER/LATERAL BLIND FLANGE
- COMPRESSED AIR ISOLATION AND BLOW OFF VALVE
- LEACHATE CLEANOUT WELLHEAD
- NEW OR MODIFIED HEADER ACCESS RISER
- CONDENSATE KNOCKOUT SUMP WITH ELECTRIC PUMP
- FORCEMAIN AIR RELEASE VALVE
- HEADER ISOLATION VALVE

- NOTES:**
1. THE EXISTING CONDITIONS TOPOGRAPHIC MAP SHOWN ON THIS DRAWING WAS PHOTOGRAPHED ON 1 SEPTEMBER 2016 BY SOUTHERN RESOURCES MAPPING CORPORATION OF NORTHPORT, ALABAMA. THE SURVEY INFORMATION HAS NOT BEEN FIELD VERIFIED. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL VERIFY THE ACCURACY OF SURVEY INFORMATION IN THE PROJECT AREA AND SHALL IMMEDIATELY NOTIFY THE COUNTY REPRESENTATIVE IF ACTUAL FIELD CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THIS DRAWING.
  2. ABOVE AND BELOW GROUND UTILITIES AND OTHER EXISTING FEATURES IN THE PROJECT AREA SHALL BE FIELD-LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF THE CONTRACTOR ANTICIPATES ANY OF THESE FEATURES WILL IMPACT ABILITY TO IMPLEMENT THE DESIGN SHOWN ON THESE DRAWINGS OR WILL REQUIRE ADDITIONAL DESIGN CONSIDERATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY REPRESENTATIVE.
  3. THE PHASE LIMITS SHOWN ON THIS DRAWING ARE BASED ON A DRAWING TITLED "MASTER PLAN" PROVIDED BY HDR, INC. AND DATED AUGUST 2008. THESE UNITS OF PHASE 3 AND 4 ARE PHASE 3 UNIT 1 CELLS 1, 2, AND 3 HAS STOPPED AT THIS TIME. PHASE 3 UNIT 3 CELLS 4 AND 5 ARE CURRENTLY ACTIVE AND ACCEPTING WASTE. THE OTHER DISPOSAL OF PHASE 3 AND 4 ARE PROPOSED FOR CONSTRUCTION IN THE FUTURE.
  4. THE EXISTING GCCS WITHIN PHASE 3 UNIT 3 CELLS 1, 2, AND 3 WAS CONSTRUCTED IN ACCORDANCE WITH THE "PHASE 3 UNIT 1 GCCS CONSTRUCTION" DRAWINGS IN 2011 AND THE "GCCS EXPANSION AND MODIFICATION" CONSTRUCTION DRAWINGS IN 2014.
  5. THE ESTIMATED TOPOGRAPHIC CONDITIONS IN THE PHASE 3 UNIT 3 CELLS 4 AND 5 VICINITY WERE APPROXIMATED FROM THE "PROJECTED ELEVATIONS" PROVIDED BY ROGER YOUNG, SUPERINTENDENT OF THE SEMINOLE ROAD LANDFILL ON 2 MAY 2017.
  6. THE PROJECTED TOPOGRAPHIC CONDITIONS IN THE PHASE 3 UNIT 3 CELLS 4 AND 5 VICINITY WERE APPROXIMATED BASED ON "PROJECTED ELEVATIONS" PROVIDED BY ROGER YOUNG, SUPERINTENDENT OF THE SEMINOLE ROAD LANDFILL ON 2 MAY AND 9 JUNE 2017.
  7. CARE SHALL BE TAKEN TO AVOID DAMAGING EXISTING FEATURES AND STRUCTURES DURING CONSTRUCTION ACTIVITIES, INCLUDING EXISTING GCCS COMPONENTS, TRAFFIC SIGNS, LITTER FENCE, ETC. IF ANY DAMAGE IS MADE DUE TO CONTRACTOR ACTIVITIES, CONTRACTOR SHALL RESTORE THE DAMAGED STRUCTURE TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.
  8. CONTRACTOR MAY ACCESS THE CONSTRUCTION AREA FROM THE EXISTING GRAVEL ROAD ON THE WEST AND EAST SIDES OF PHASE 3 UNIT 3, BUT WILL BE RESPONSIBLE FOR REMOVING LITTER FENCE AT REQUIRED LOCATIONS AND RETURNING TO ORIGINAL CONDITIONS AFTER COMPLETION OF CONSTRUCTION ACTIVITIES. ANY DAMAGE TO THE LITTER FENCE DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
  9. GAS EXTRACTION WELL BOTTOM ELEVATIONS SHALL BE A MINIMUM OF 12 FT ABOVE THE TOP OF CLAY LINER ELEVATIONS (SHOWN ON DRAWING 4) AND INCLUDE A STICK-UP ABOVE THE EXISTING GROUND ELEVATIONS ACCORDING TO DETAILS PROVIDED ON DRAWING 9.
  10. LOCATIONS AND INSTALLATION OF THE PROPOSED LANDFILL GAS EXTRACTION WELLS AND HEADER/LATERAL PIPE ALIGNMENTS MAY VARY TO ACCOMMODATE FIELD CONDITIONS. WELL LOCATIONS MAY ALSO CHANGE IF OBSTRUCTIONS ARE ENCOUNTERED DURING DRILLING. IF WELL LOCATIONS ARE CHANGED, THE CONTRACTOR SHALL ADJUST THE WELL DEPTHS SO AS TO MAINTAIN THE 12-FT SEPARATION DISTANCE FROM THE TOP OF LINER GRADES SHOWN ON DRAWING 4.
  11. CONTRACTOR SHALL SURVEY AND STAKE THE HEADER/LATERAL PIPE ALIGNMENTS PRIOR TO CONSTRUCTION FOR APPROVAL BY THE ENGINEER AND OWNER AS REQUIRED BY THE SPECIFICATIONS.
  12. A MINIMUM SLOPE OF 3 PERCENT SHALL BE ACHIEVED ON LATERALS PIPES THAT CONNECT GAS EXTRACTION WELLS TO EACH OTHER AND TO THE HEADER PIPE. A MINIMUM SLOPE OF 3 PERCENT SHALL BE ACHIEVED ON PERMANENT HEADER PIPE.
  13. EXCAVATED REFUSE IS TO BE LOADED AND HAULED BY THE CONTRACTOR TO THE WORKING FACE OF THE LANDFILL FOR DISPOSAL BY THE OWNER BY THE END OF EACH DAY. CONTRACTOR SHALL KEEP RECORD OF THE QUANTITY OF REFUSE HAULED TO THE WORKING FACE OF THE LANDFILL AND SHALL PROVIDE A DISPOSAL LOG TO THE OWNER'S REPRESENTATIVE ON A WEEKLY BASIS. ALL EXCAVATIONS INTO REFUSE SHALL BE BACKFILLED BY THE END OF EACH DAY.
  14. CONTRACTOR SHALL RESTORE AND STABILIZE ALL DISTURBED AREAS AS APPROVED BY THE ENGINEER AND OWNER. ALL GRASSING AND SEEDING SHALL BE REPLACED AS PER OWNER'S REQUIREMENTS AND THE TECHNICAL SPECIFICATIONS. ALL EXISTING AREAS WITH SOD THAT ARE DISTURBED AS PART OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED AND STABILIZED TO ORIGINAL CONDITIONS WITH BERMUDA SOD.
  15. CONTRACTOR SHALL PURCHASE, DELIVER TO SITE, AND INSTALL SIGNS AT ALL MAJOR GCCS COMPONENTS ACCORDING TO THE DETAIL DRAWINGS AND TECHNICAL SPECIFICATIONS.
  16. CONTRACTOR SHALL PROVIDE PNEUMATIC PUMPS AND ALL OTHER FITTINGS AND ACCESSORIES FOR EACH GAS EXTRACTION WELL (INCLUDING 25 EXTRA BACK-UP PUMPS) AS PER THE TECHNICAL SPECIFICATIONS. INSTALLATIONS SHALL BE PERFORMED BY OTHERS.

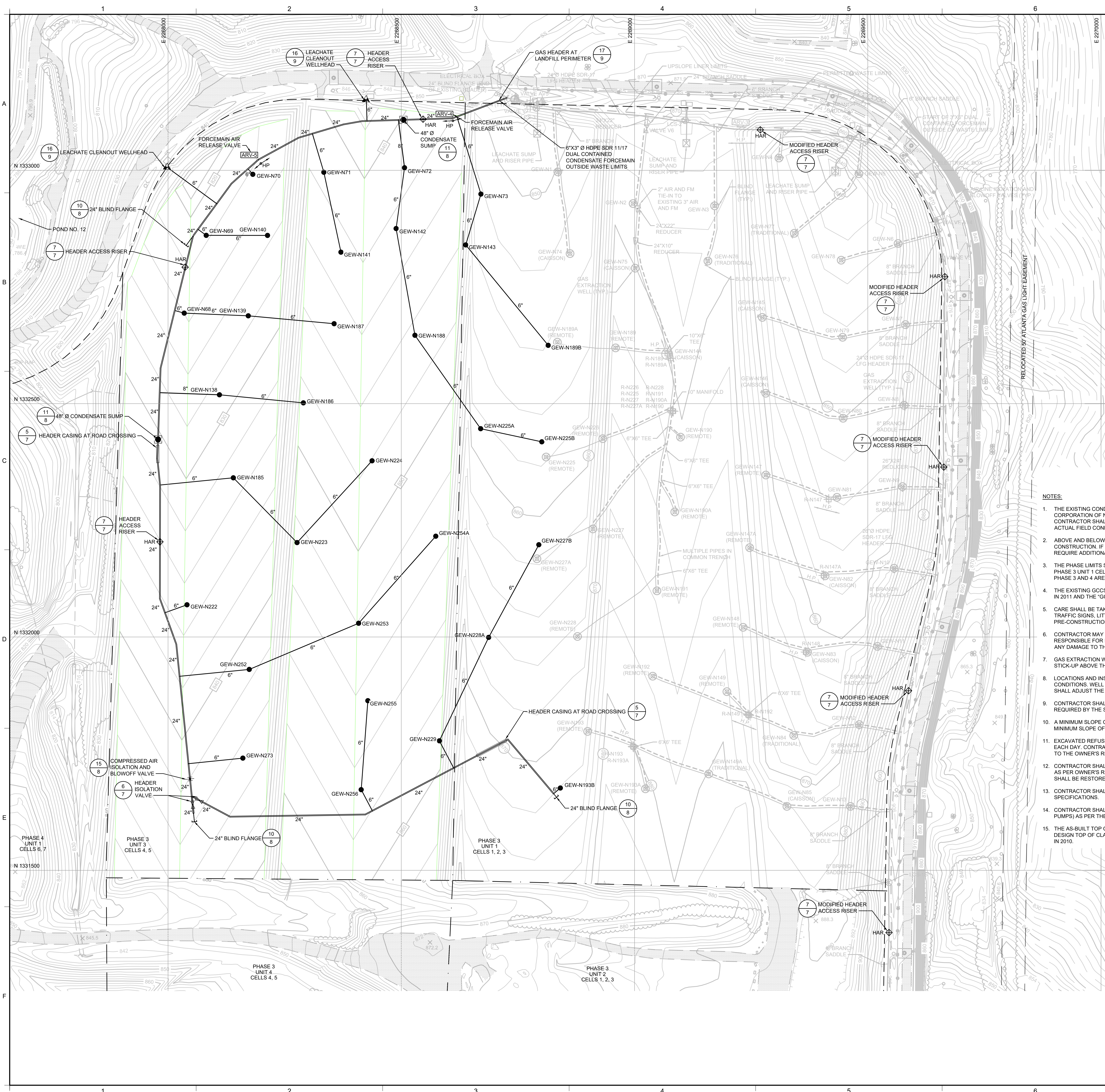


A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY	JJA	JAS
REV	DATE	DESCRIPTION	DRN	APP
		<b>Geosyntec</b> consultants		
		1255 ROBERTS BOULEVARD, N.W., SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.292.3500	SEMINOLE ROAD LANDFILL 4203 CLEVELAND ROAD ELLENWOOD, GEORGIA 30284 USA	
<b>TITLE: GCCS EXPANSION ON PROJECTED TOP OF LANDFILL ELEVATIONS</b>				
<b>PROJECT: GCCS - PHASE 3 UNIT 3 EXPANSION</b>				
<b>SITE: SEMINOLE ROAD LANDFILL DEKALB COUNTY, GEORGIA</b>				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION UNLESS SEALED.		<b>DRAFT</b>	DESIGN BY: JAS	DATE: AUGUST 2017
SIGNATURE		DRAWN BY: SRN/JJA	PROJECT NO.: GD5409	
DATE		CHECKED BY: MAO	FILE: 5409-003	
		REVIEWED BY: HA	DRAWING NO.:	
		APPROVED BY: JAS	<b>3</b> OF <b>9</b>	

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L:\CONTRACTS\DEKALB COUNTY LANDFILL CONSTRUCTION\SEM INOLES ROAD LANDFILL GCCS - GD5409\DWG\98090

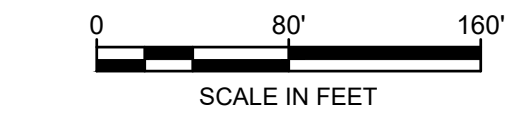




### LEGEND

- EXISTING 2' CONTOURS (NOTE 1)
- EXISTING 10' CONTOURS (NOTE 1)
- TOP OF CLAY LINER (UNIT 1) 2' CONTOURS (NOTE 15)
- TOP OF CLAY LINER (UNIT 1) 10' CONTOURS (NOTE 15)
- TOP OF CLAY LINER (UNIT 3) 2' CONTOURS (NOTE 15)
- TOP OF CLAY LINER (UNIT 3) 10' CONTOURS (NOTE 15)
- TREE LINE
- GAS EASEMENT
- PHASE UNIT LIMITS
- UPSLOPE LINER LIMITS
- EXISTING GAS LATERAL PIPE
- EXISTING LANDFILL GAS EXTRACTION WELL
- PERMITTED WASTE LIMITS
- EXISTING MANHOLE
- EXISTING LFG HEADER
- EXISTING CONDENSATE KNOCKOUT SUMP WITH ELECTRIC PUMP
- EXISTING ACCESS ROAD (NOTE 1)
- EXISTING HIGH POINT
- EXISTING LEACHATE CLEANOUT WELLHEAD
- EXISTING HEADER ACCESS RISER (HAR)
- 
- 
- GAS EXTRACTION WELL AND WELL DESIGNATION
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- ### NOTES:
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  - CONTRACTOR MAY ACCESS THE CONSTRUCTION AREA FROM THE EXISTING GRAVEL ROAD ON THE WEST AND EAST SIDES OF PHASE 3 UNIT 3, BUT WILL BE RESPONSIBLE FOR REMOVING LITTER FENCE AT REQUIRED LOCATIONS AND RETURNING TO ORIGINAL CONDITIONS AFTER COMPLETION OF CONSTRUCTION ACTIVITIES. ANY DAMAGE TO THE LITTER FENCE DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
  - GAS EXTRACTION WELL BOTTOM ELEVATIONS SHALL BE A MINIMUM OF 12 FT ABOVE THE TOP OF CLAY LINER ELEVATIONS (SHOWN ON DRAWING 4) AND INCLUDE A STICK-UP ABOVE THE EXISTING GROUND ELEVATIONS ACCORDING TO DETAILS PROVIDED ON DRAWING 9.
  - LOCATIONS AND INSTALLATION OF THE PROPOSED LANDFILL GAS EXTRACTION WELLS AND HEADER/LATERAL PIPE ALIGNMENTS MAY VARY TO ACCOMMODATE FIELD CONDITIONS. WELL LOCATIONS MAY ALSO CHANGE IF OBSTRUCTIONS ARE ENCOUNTERED DURING DRILLING. IF WELL LOCATIONS ARE CHANGED, THE CONTRACTOR SHALL ADJUST THE WELL DEPTHS SO AS TO MAINTAIN THE 12-FT SEPARATION DISTANCE FROM THE TOP OF LINER GRADES SHOWN ON DRAWING 4.
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  - A MINIMUM SLOPE OF 5 PERCENT SHALL BE ACHIEVED ON LATERALS PIPES THAT CONNECT GAS EXTRACTION WELLS TO EACH OTHER AND TO THE HEADER PIPE. A MINIMUM SLOPE OF 3 PERCENT SHALL BE ACHIEVED ON PERMANENT HEADER PIPE.
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  - CONTRACTOR SHALL PROVIDE PNEUMATIC PUMPS AND ALL OTHER FITTINGS AND ACCESSORIES FOR EACH GAS EXTRACTION WELL (INCLUDING 25 EXTRA, BACK-UP PUMPS) AS PER THE TECHNICAL SPECIFICATIONS. INSTALLATIONS SHALL BE PERFORMED BY OTHERS.
  - THE AS-BUILT TOP OF CLAY LINER GRADES WITHIN PHASE 3 UNIT 1 ARE FROM THE "GCCS EXPANSION AND MODIFICATION" CONSTRUCTION DRAWINGS IN 2014. THE DESIGN TOP OF CLAY LINER GRADES WITHIN PHASE 3 UNIT 3 ARE FROM "SEMINOLE ROAD MSWLF PHASE 3 & 4 UPGRADE DESIGN & OPERATION PLANS" BY ARCADIS IN 2010.

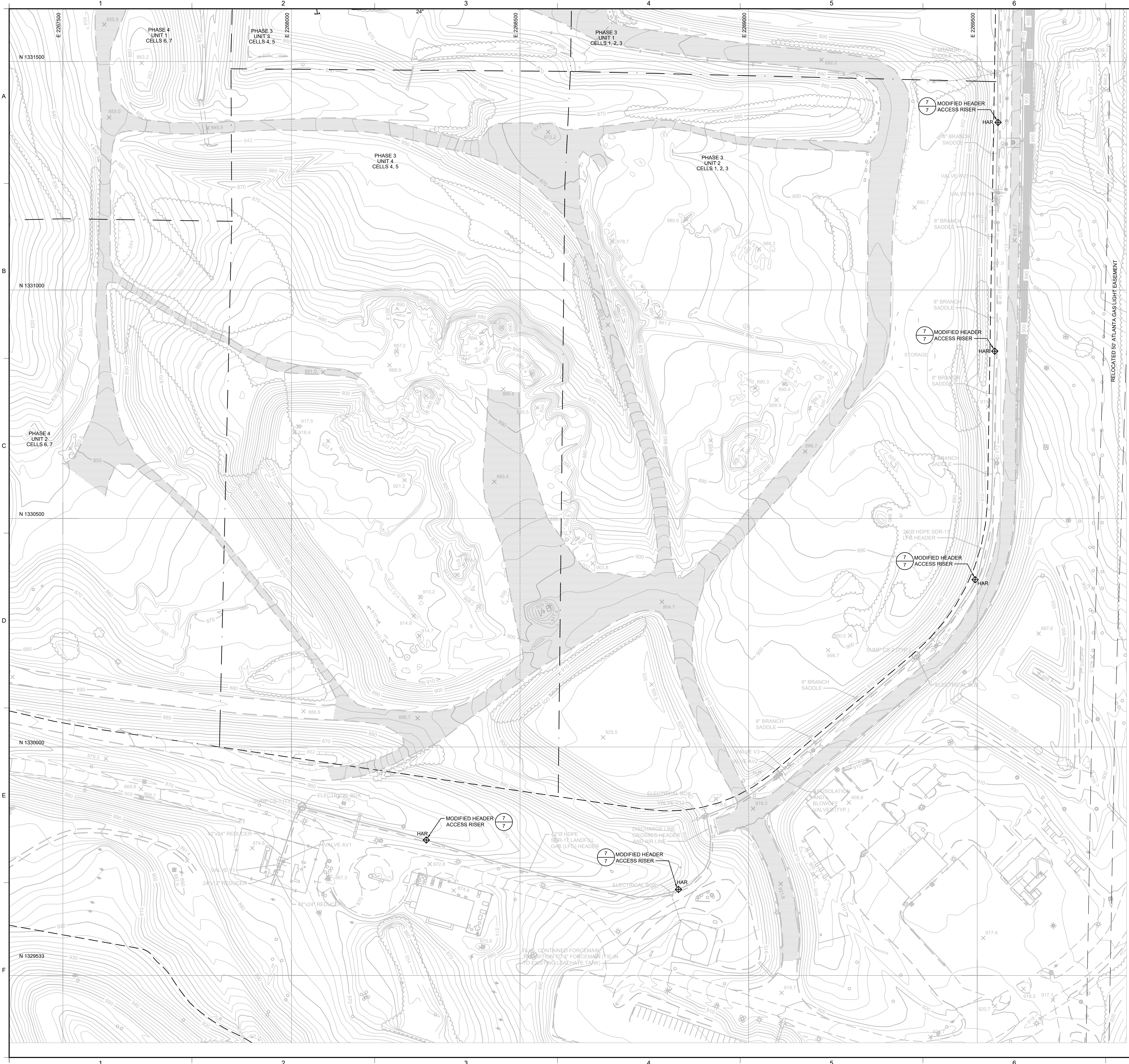


A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY	JJA	JAS
REV	DATE	DESCRIPTION	DRN	APP
		1255 ROBERTS BOULEVARD, N.W., SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.9500		
		SEMINOLE ROAD LANDFILL 4203 CLEVELAND ROAD ELLENWOOD, GEORGIA 30204 USA		
<b>TITLE: GCCS EXPANSION ON TOP OF CLAY LINER GRADES</b>				
<b>PROJECT: GCCS - PHASE 3 UNIT 3 EXPANSION</b>				
<b>SITE: SEMINOLE ROAD LANDFILL DEKALB COUNTY, GEORGIA</b>				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: JAS      DATE: AUGUST 2017 DRAWN BY: SRN/JJA      PROJECT NO.: GD5409 CHECKED BY: MAO      FILE: 5409-004 REVIEWED BY: HA      DRAWING NO.: APPROVED BY: JAS      4 OF 9		

DRAFT

LOCAL/DEKALB COUNTY LANDFILL CONSTRUCTION/SEMINOLE ROAD LANDFILL GCCS EXPANSION/MSWLF PHASE 3 & 4

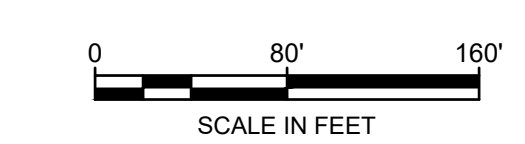




**LEGEND**

	EXISTING 2' CONTOURS (NOTE 1)
	EXISTING 10' CONTOURS (NOTE 1)
	TREE LINE
	FENCE LINE
	GAS EASEMENT
	PHASE UNIT LIMITS
	UPSLOPE LINER LIMITS
	EXISTING MANHOLE
	EXISTING LFG HEADER
	ACCESS ROAD
	MODIFIED HEADER ACCESS RISER (HAR)
	EXISTING UTILITY POLES AND ELECTRICAL LINES

- NOTES:**
1. THE EXISTING CONDITIONS TOPOGRAPHIC MAP SHOWN ON THIS DRAWING WAS PHOTOGRAPHED ON 1 SEPTEMBER 2016 BY SOUTHERN RESOURCES MAPPING CORPORATION OF NORTHPORT, ALABAMA. THE SURVEY INFORMATION HAS NOT BEEN FIELD VERIFIED. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL VERIFY THE ACCURACY OF SURVEY INFORMATION IN THE PROJECT AREA AND SHALL IMMEDIATELY NOTIFY THE COUNTY REPRESENTATIVE IF ACTUAL FIELD CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THIS DRAWING.
  2. ABOVE AND BELOW GROUND UTILITIES AND OTHER EXISTING FEATURES IN THE PROJECT AREA SHALL BE FIELD-LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF THE CONTRACTOR ANTICIPATES ANY OF THESE FEATURES WILL IMPACT ABILITY TO IMPLEMENT THE DESIGN SHOWN ON THESE DRAWINGS OR WILL REQUIRE ADDITIONAL DESIGN CONSIDERATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY REPRESENTATIVE.
  3. THE PHASE LIMITS SHOWN ON THIS DRAWING ARE BASED ON A DRAWING TITLED 'MASTER PLAN' PROVIDED BY HDR, INC. AND DATED AUGUST 2008. WASTE DISPOSAL IN PHASE 3 UNIT 1 CELLS 1, 2, AND 3 HAS STOPPED AT THIS TIME. PHASE 3 UNIT 3 CELLS 4 AND 5 ARE CURRENTLY ACTIVE AND ACCEPTING WASTE. THE OTHER UNITS OF PHASE 3 AND 4 ARE PROPOSED FOR CONSTRUCTION IN THE FUTURE.
  4. THE EXISTING GCCS WITHIN PHASE 3 UNIT 3 CELLS 1, 2, AND 3 WAS CONSTRUCTED IN ACCORDANCE WITH THE 'PHASE 3 UNIT 1 GCCS CONSTRUCTION' DRAWINGS IN 2011 AND THE 'GCCS EXPANSION AND MODIFICATION' CONSTRUCTION DRAWINGS IN 2014.
  5. EXISTING HEADER ACCESS RISER TO BE MODIFIED AS SHOWN ON DRAWING 7.

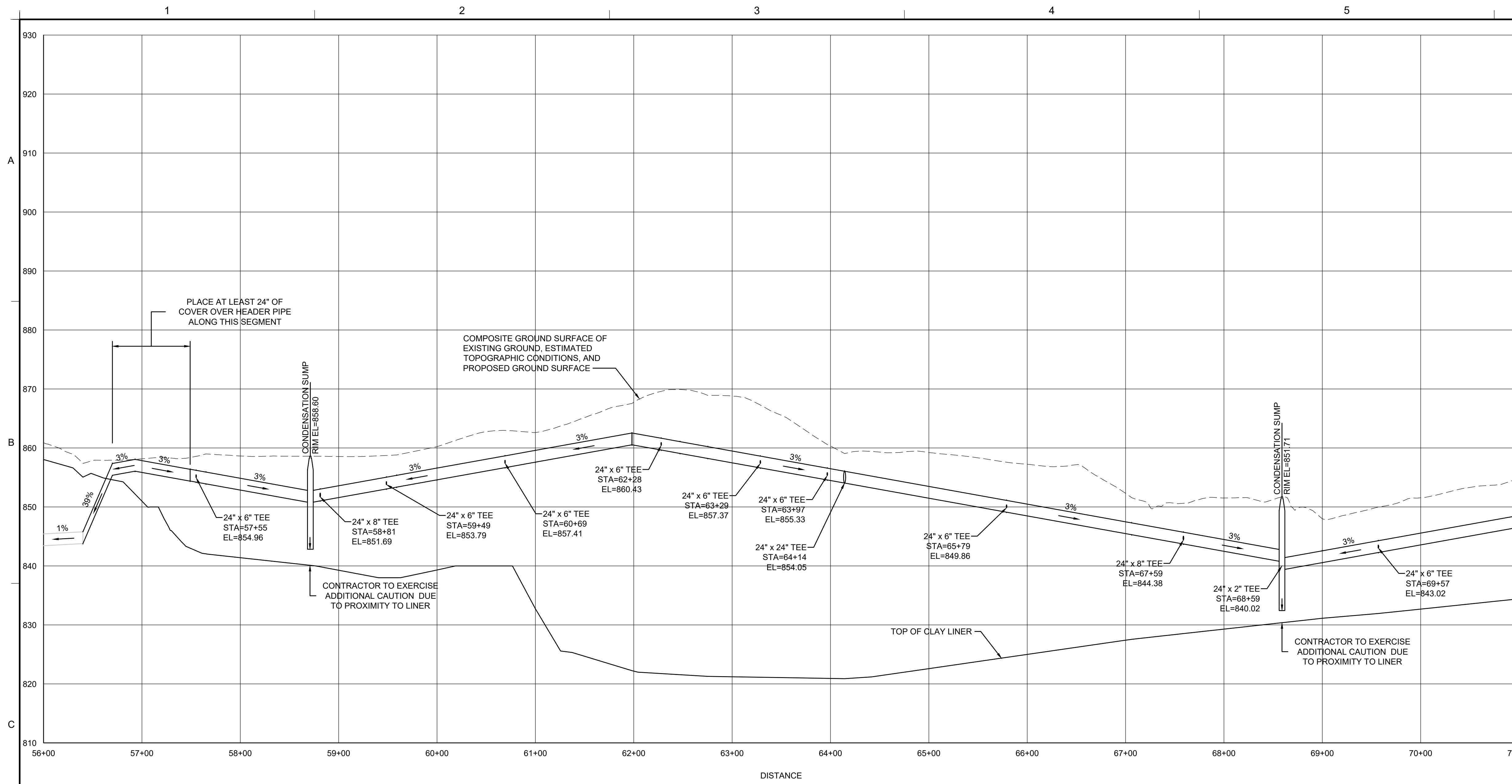


REV	DATE	DESCRIPTION	DRN	JAS	APP
A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY		JJA	JAS
<b>HEADER ACCESS RISER (HAR) PLAN</b>					
<b>PROJECT:</b> GCCS - PHASE 3 UNIT 3 EXPANSION					
<b>SITE:</b> SEMINOLE ROAD LANDFILL DEKALB COUNTY, GEORGIA					
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		<b>DRAFT</b>		DESIGN BY: JAS      DATE: AUGUST 2017 DRAWN BY: SRN/JJA      PROJECT NO.: GD5409 CHECKED BY: MAO      FILE: 5409-005 REVIEWED BY: HA      DRAWING NO.: APPROVED BY: JAS      5 OF 9	

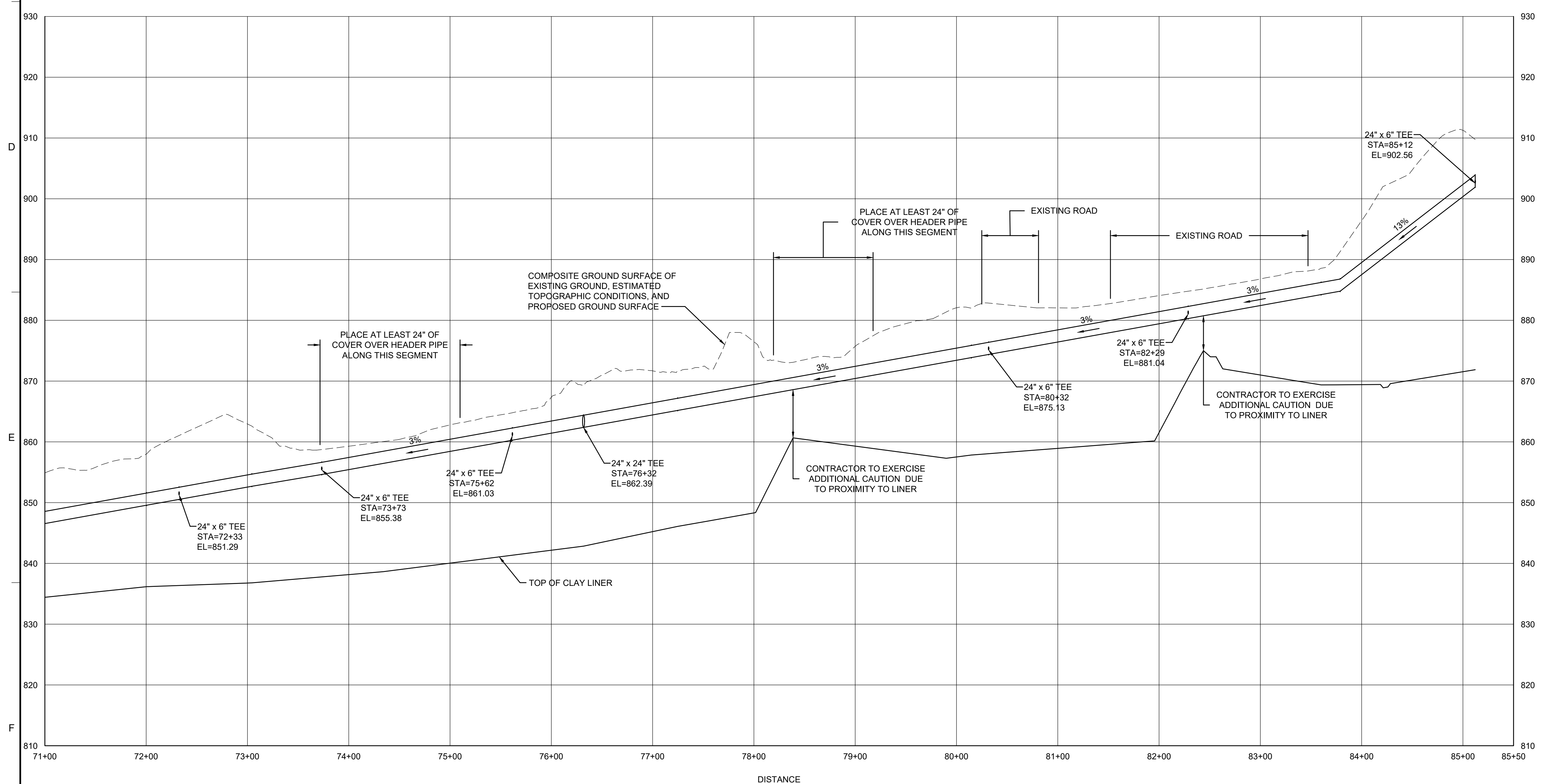
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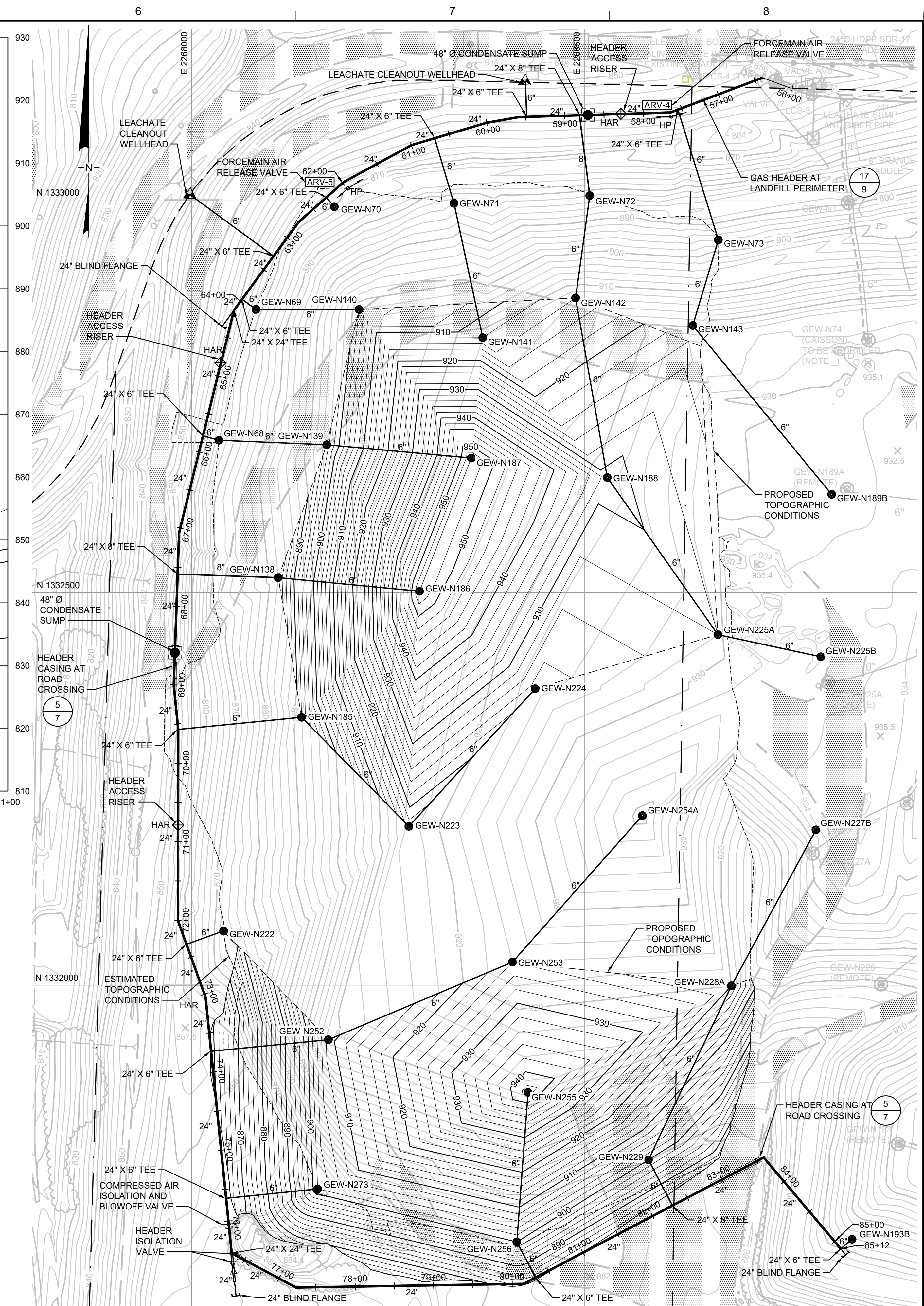




**PROFILE**  
**6** PROPOSED HEADER LINE 56+00 TO 71+00  
 (NOTE)  
 SCALE: HORIZONTAL: 1" = 60'; VERTICAL: 1" = 10'



**PROFILE**  
**6** PROPOSED HEADER LINE 71+00 TO 85+50  
 (NOTE)  
 SCALE: HORIZONTAL: 1" = 60'; VERTICAL: 1" = 10'



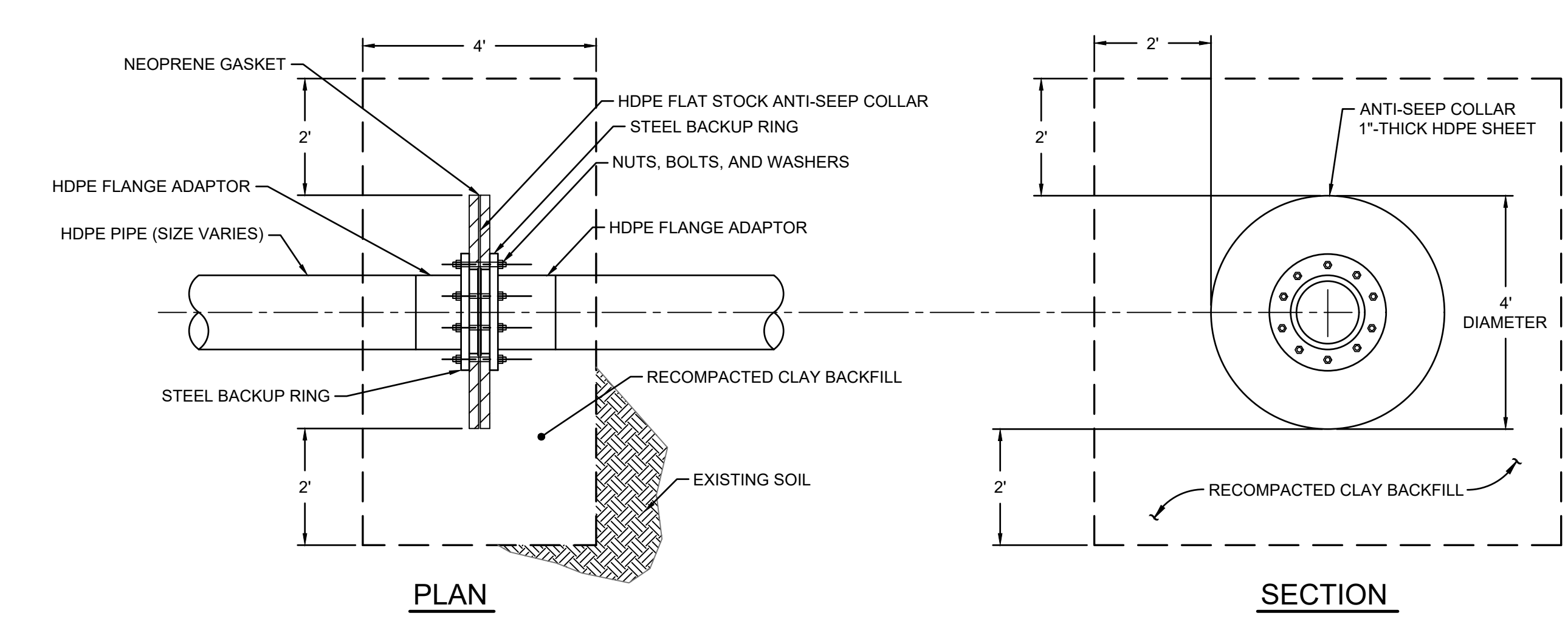
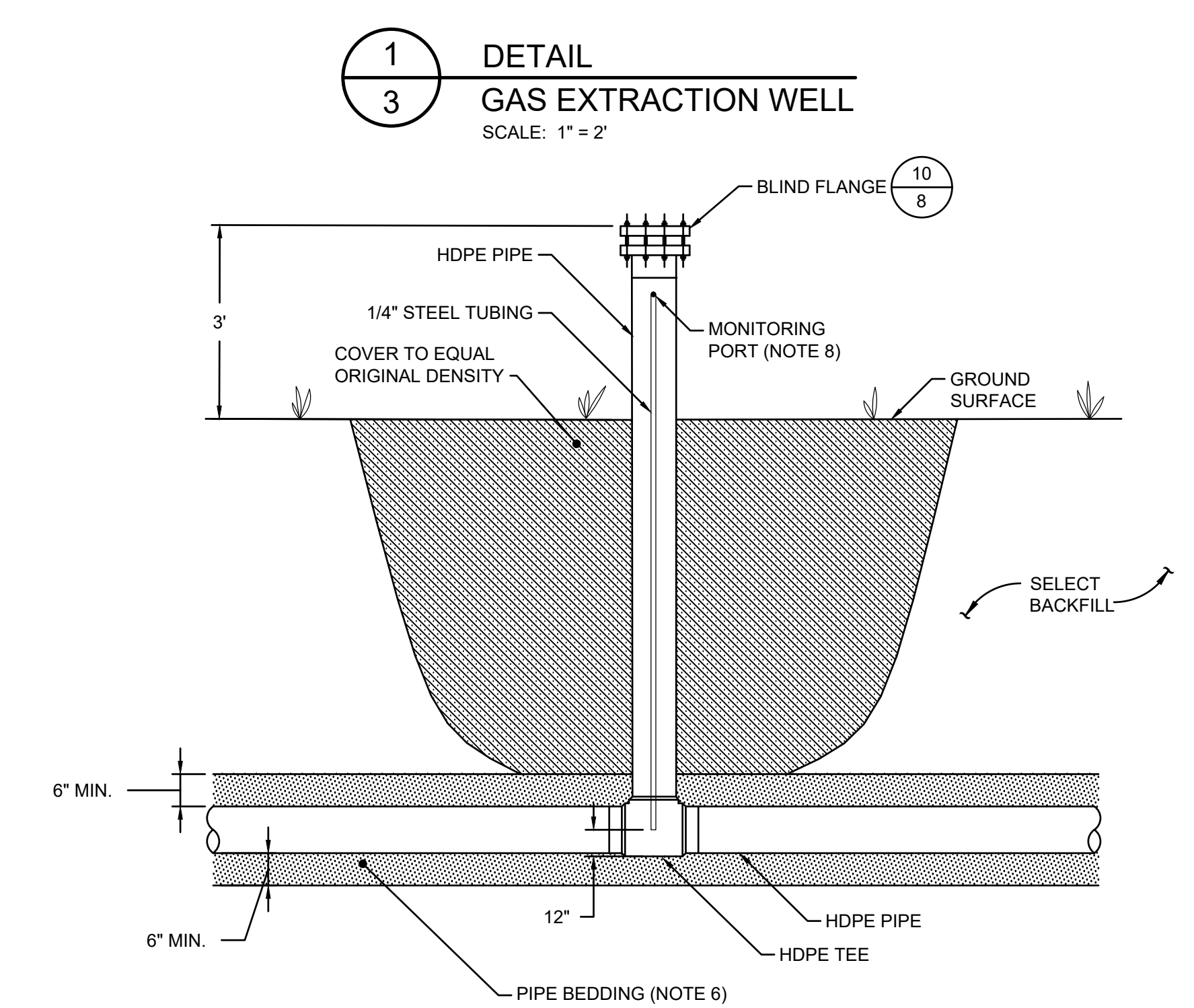
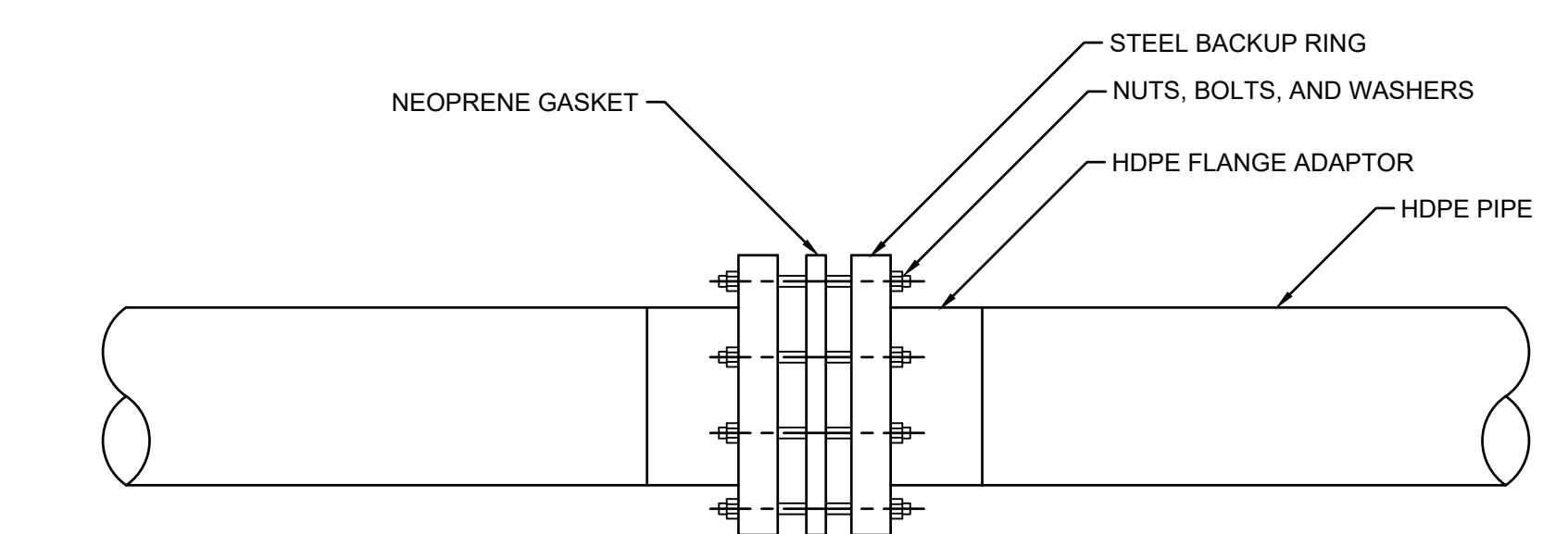
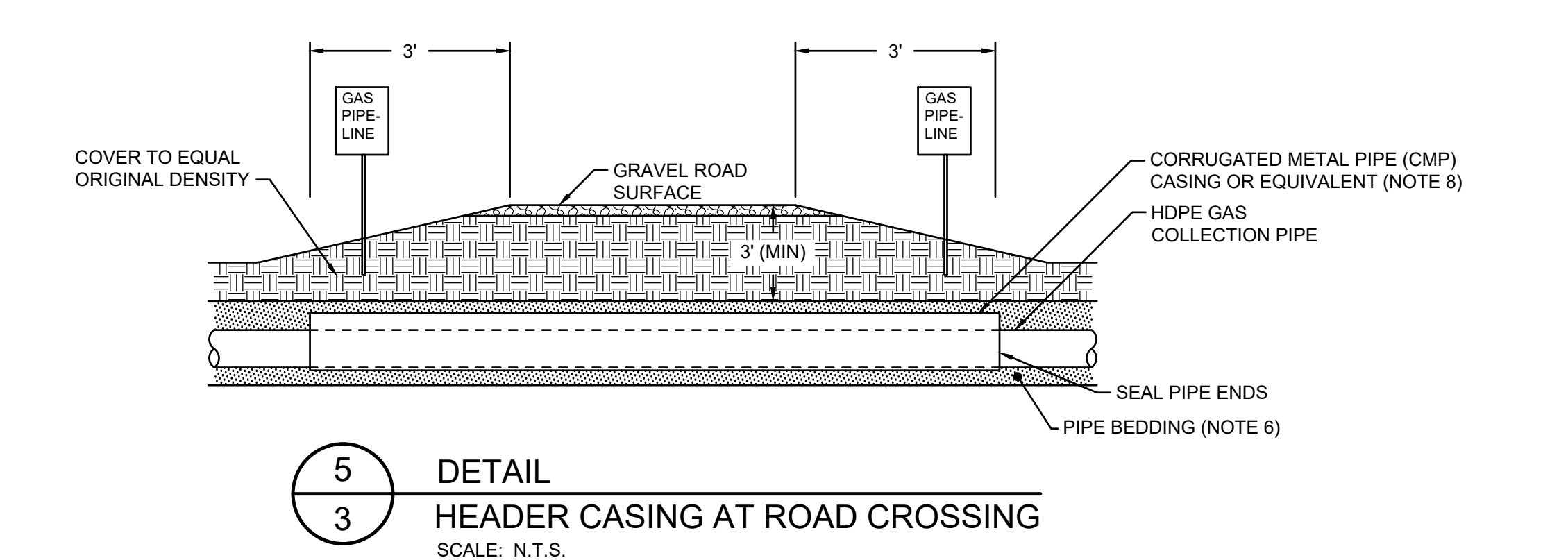
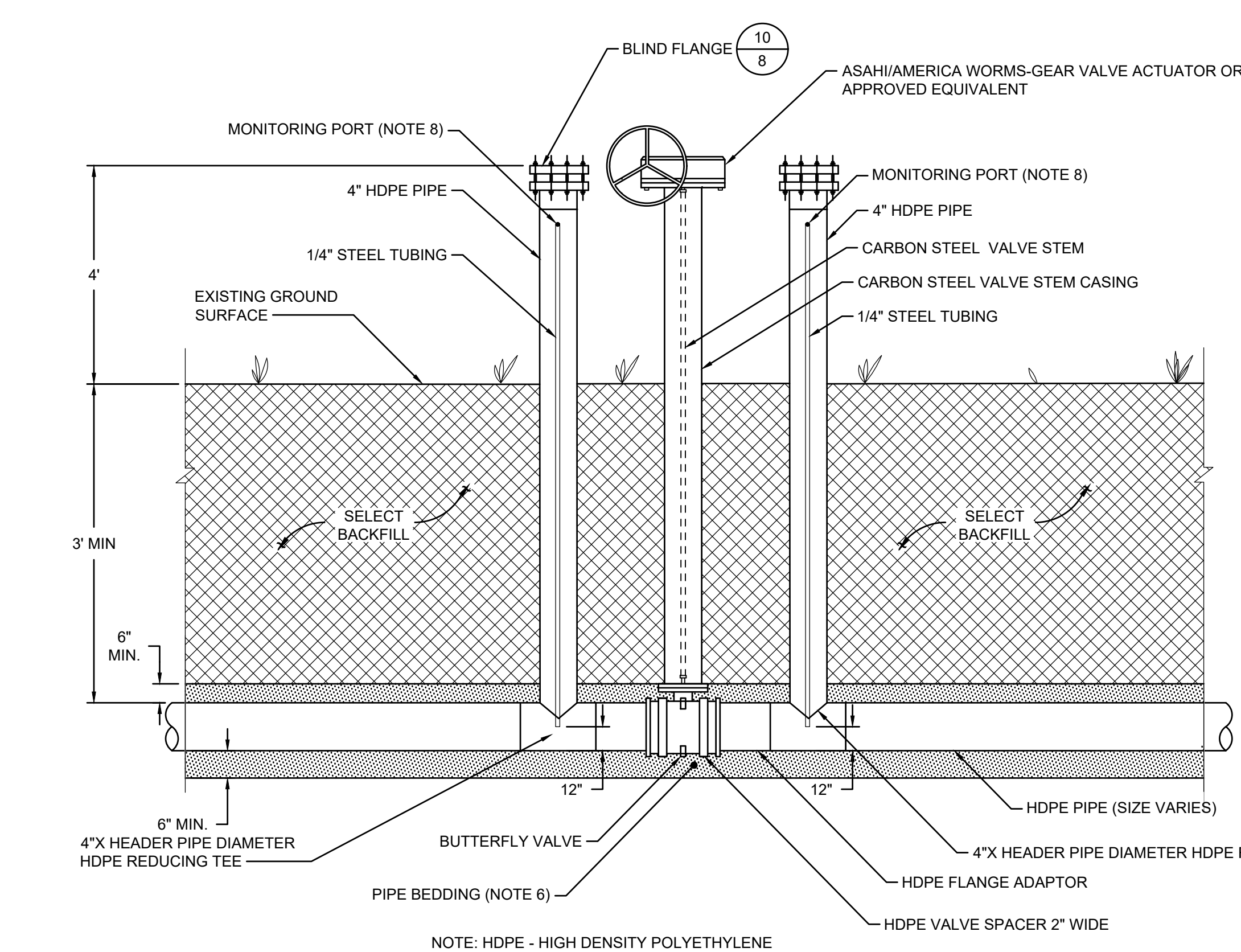
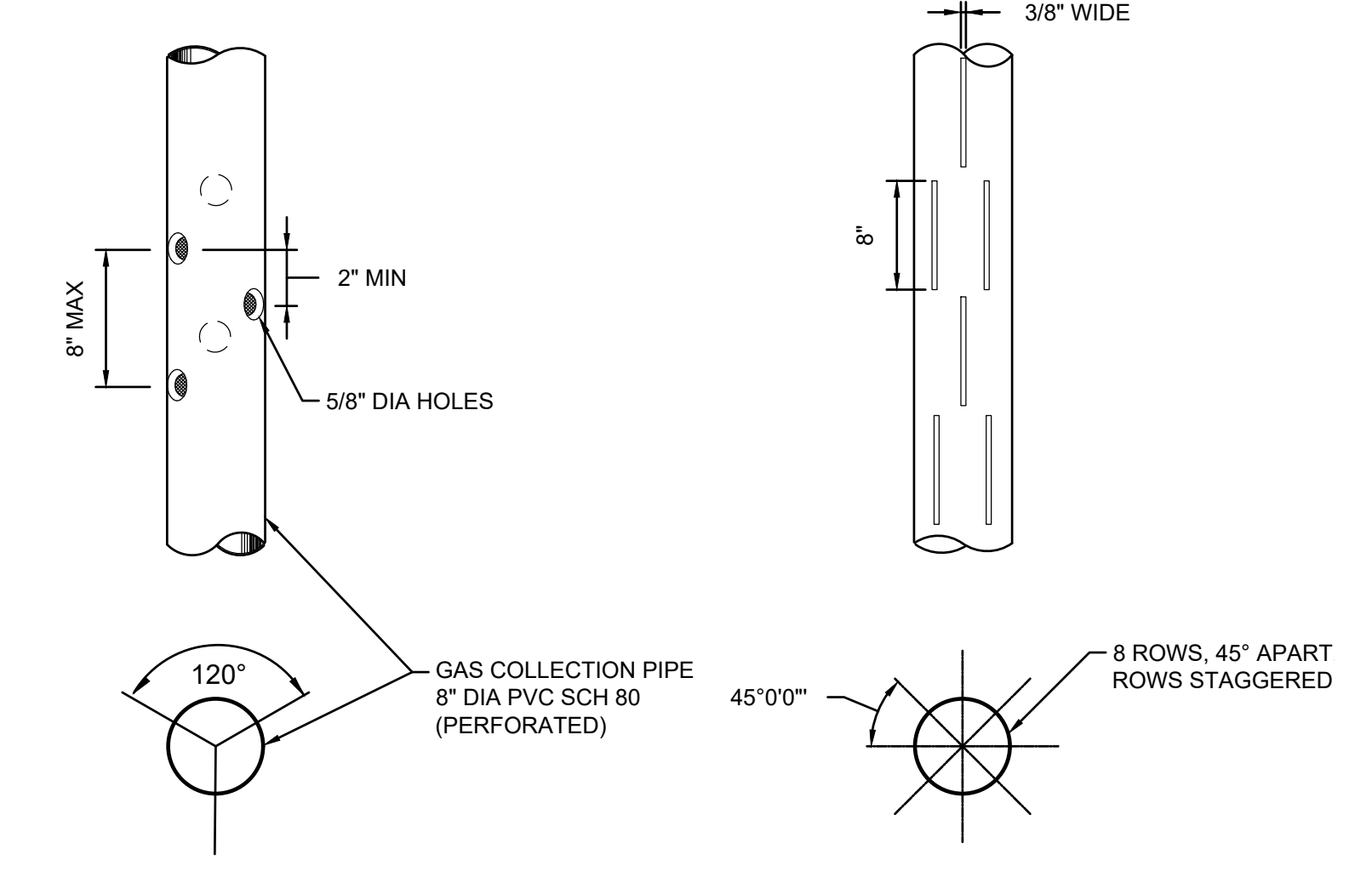
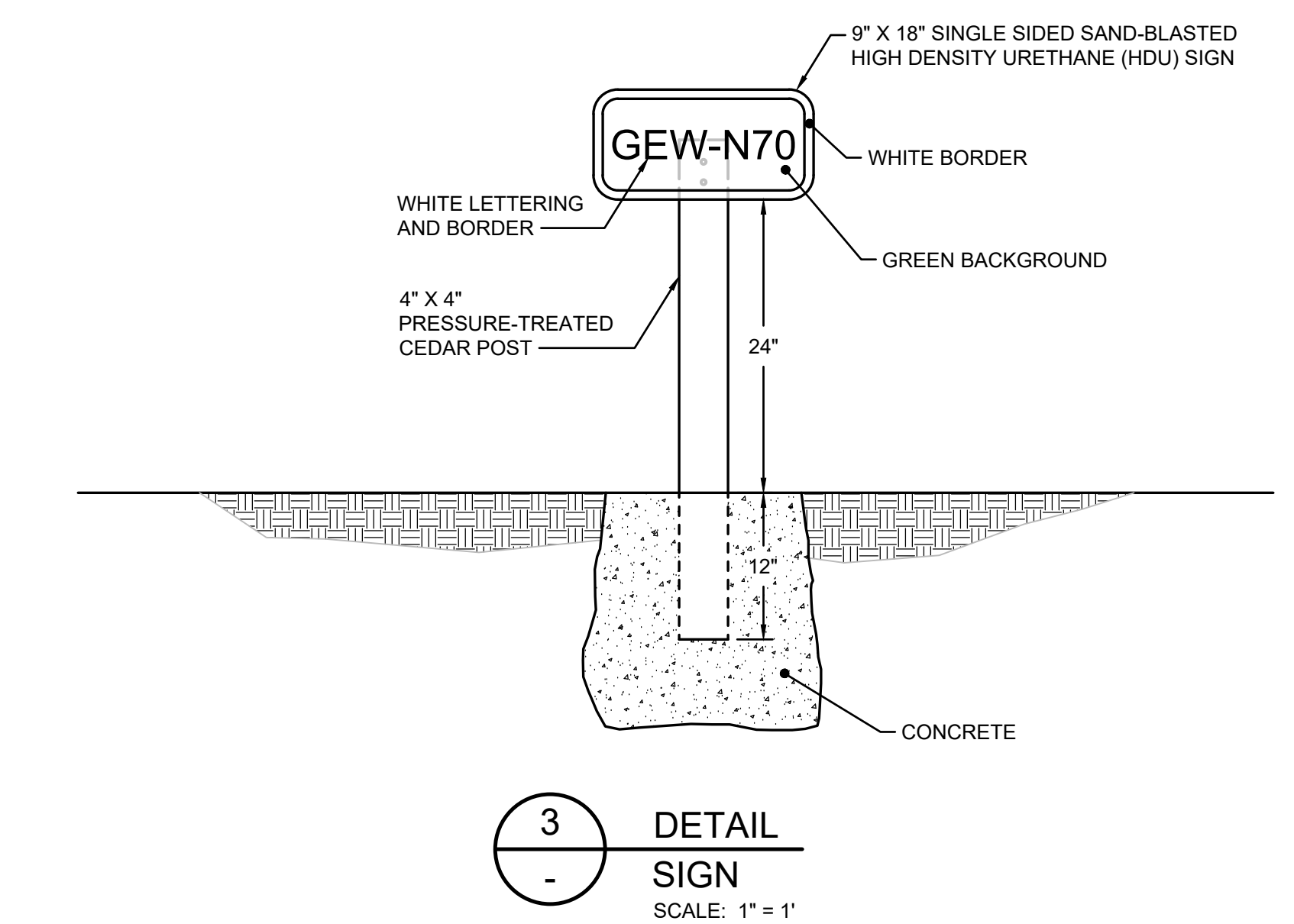
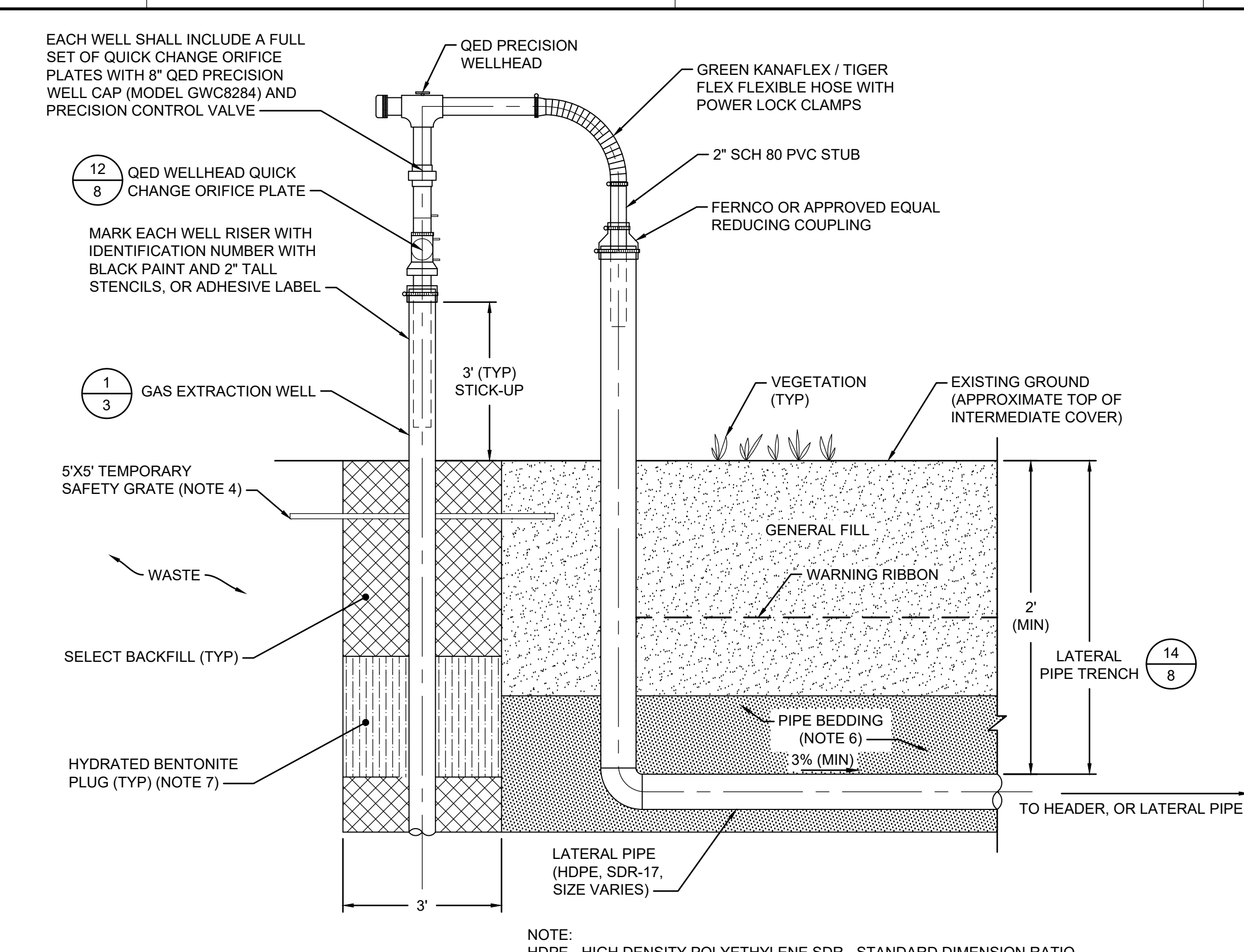
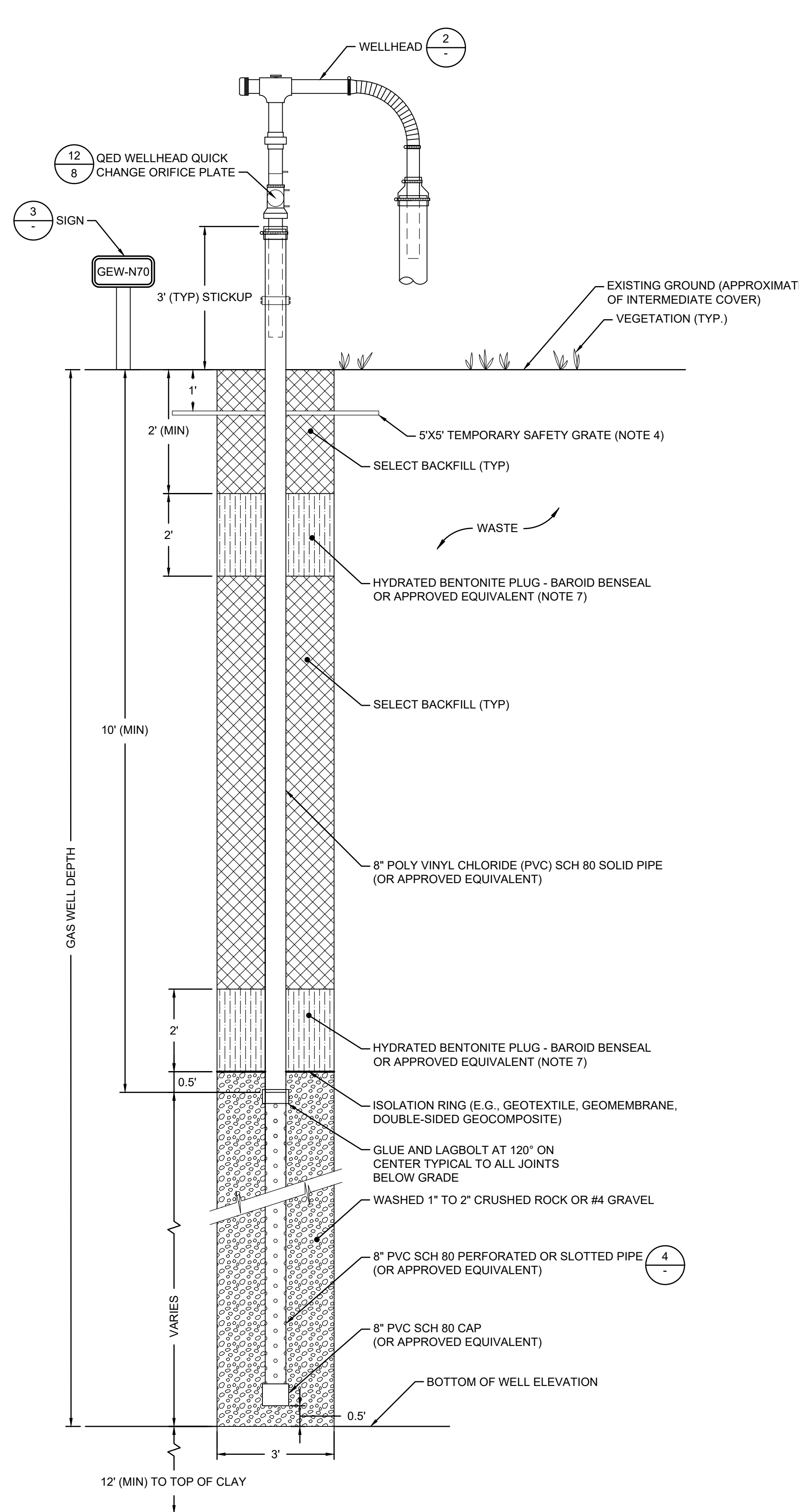
**LEGEND**

	EXISTING AND ESTIMATED 2' CONTOURS		6" OR 8" FORCEMAIN IN COMMON TRENCH
	EXISTING AND ESTIMATED 10' CONTOURS		24" PROPOSED HEADER PIPE AND SIZE WITH 3" AIRLINE AND FORCEMAIN IN COMMON TRENCH
	PROJECTED 2' CONTOURS		FORCEMAIN AIR RELEASE VALVE
	PROJECTED 10' CONTOURS		HEADER ISOLATION VALVE
	TREE LINE		HEADER/LATERAL BLIND FLANGE
	FENCE LINE		
	GAS EASEMENT		
	PHASE UNIT LIMITS		
	UPSLOPE LINER LIMITS		
	EXISTING GAS LATERAL PIPE		
	EXISTING LANDFILL GAS EXTRACTION WELL		
	PERMITTED WASTE LIMITS		
	EXISTING MANHOLE		
	EXISTING LFG HEADER		
	EXISTING CONDENSATE SUMP		
	ACCESS ROAD		
	HIGH POINT		
	LEACHATE CLEANOUT WELLHEAD		
	HEADER ACCESS RISER (HAR)		
	GAS EXTRACTION WELL AND WELL DESIGNATION		
	PROPOSED LABEL PIPE AND SIZE WITH 2" AIRLINE AND		

A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY	JJA	JAS
REV	DATE	DESCRIPTION	DRN	APP
1255 ROBERTS BOULEVARD, N.W., SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.3500		SEMINOLE ROAD LANDFILL 4203 CLEVELAND ROAD ELLENWOOD, GEORGIA 30234 USA		
<b>HEADER PIPE PLAN AND PROFILE</b>				
PROJECT: <b>GCCS - PHASE 3 UNIT 3 EXPANSION</b>				
SITE: <b>SEMINOLE ROAD LANDFILL DEKALB COUNTY, GEORGIA</b>				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: JAS DATE: AUGUST 2017 DRAWN BY: SRN/JJA PROJECT NO.: GD5409 CHECKED BY: MAO FILE: 5409-006 REVIEWED BY: HA DRAWING NO.: APPROVED BY: JAS		
SIGNATURE DATE		<b>DRAFT</b> 6 OF 9		

L:\CONTRACTS\LANDFILL\CONSTRUCTION\SEMIMOLE LANDFILL\GCCS - G08\DRAWINGS\SHR09S





- NOTES:
- ALL DETAILS CONTAINED ON THIS DRAWING ARE FOR EXAMPLE ONLY. EXACT CONSTRUCTION DETAILS MAY VARY ACCORDING TO FIELD CONDITIONS AND MANUFACTURER SPECIFIC DETAILS WHILE KEEPING THE GENERAL CONCEPTS OF THE DETAILS PRESENTED ON THIS DRAWING.
  - ANTI-SEEP COLLARS ARE TO BE LOCATED AT ALL POINTS WHERE THE GAS PIPE LINE EXITS THE LIMITS OF WASTE AND WILL BE FIELD LOCATED.
  - HEADER ACCESS RISERS ARE RECOMMENDED TO BE INSTALLED EVERY 500' TO AID MAINTENANCE AND TROUBLESHOOTING WORK.
  - TEMPORARY SAFETY GRATE SHALL BE REMOVED PRIOR TO FINAL CONSTRUCTION.
  - CONTRACTOR SHALL PRODUCE SIGNS AND DELIVER TO SITE. INSTALLATION BY OTHERS. SIGNS SHALL BE PRODUCED FOR ALL GAS WELLS, VALVES, ROAD CROSSINGS, LCS RISER WELLHEADS, AND ALL OTHER SIGNIFICANT COMPONENTS OF THE GCCS.
  - PIPE BEDDING MATERIAL SHALL CONSIST OF CLEAN COARSE SAND (1/4 IN. MINUS GRANULAR MATERIAL OR 1-1/4 TO 3/8 IN. PEA GRAVEL) OR APPROVED EQUIVALENT MATERIAL.
  - BENTONITE SHALL BE HYDRATED AND MIXED IN A BUCKET PRIOR TO PLACEMENT AROUND THE ANNULUS.
  - MONITORING PORT AND ACCOMPANYING TUBING INTO THE HEADER PIPE SHALL BE STAINLESS STEEL TUBING AND FITTINGS.

REV	DATE	DESCRIPTION	DRN	APP
A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY	JJA	JAS

**Geosyntec consultants**

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

SEMINOLE ROAD LANDFILL  
4203 CLEVELAND ROAD  
ELLENWOOD, GEORGIA 30234 USA

TITLE: **GCOS DETAILS I**

PROJECT: **GCOS - PHASE 3 UNIT 3 EXPANSION**

SITE: **SEMINOLE ROAD LANDFILL  
DEKALB COUNTY, GEORGIA**

DESIGN BY: JAS DATE: AUGUST 2017  
DRAWN BY: SRN/JJA PROJECT NO.: GD5409  
CHECKED BY: MAO FILE: 5409-009  
REVIEWED BY: HA DRAWING NO.:  
APPROVED BY: JAS

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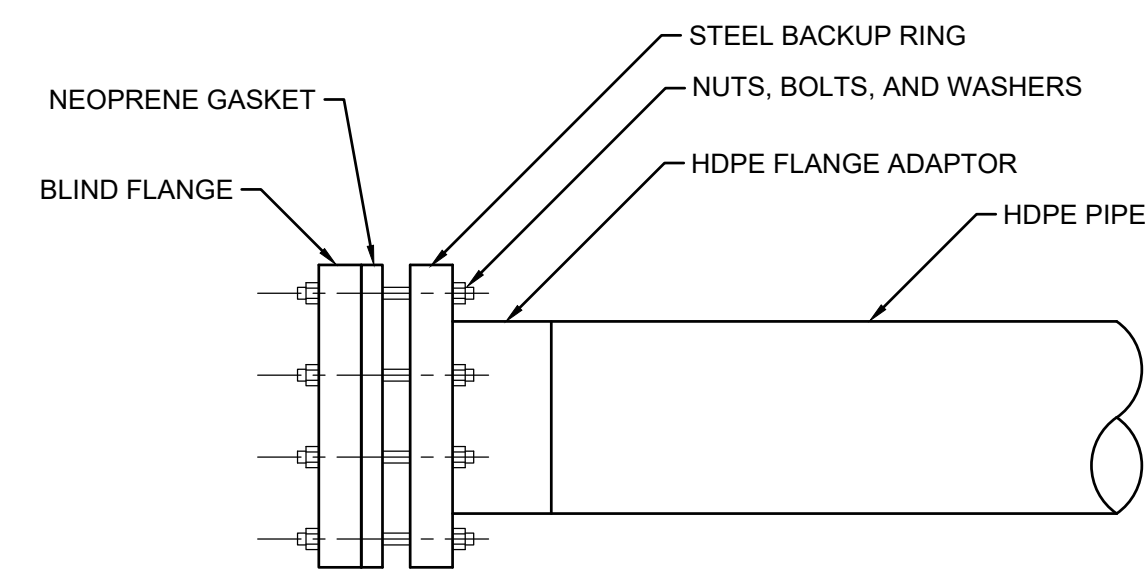
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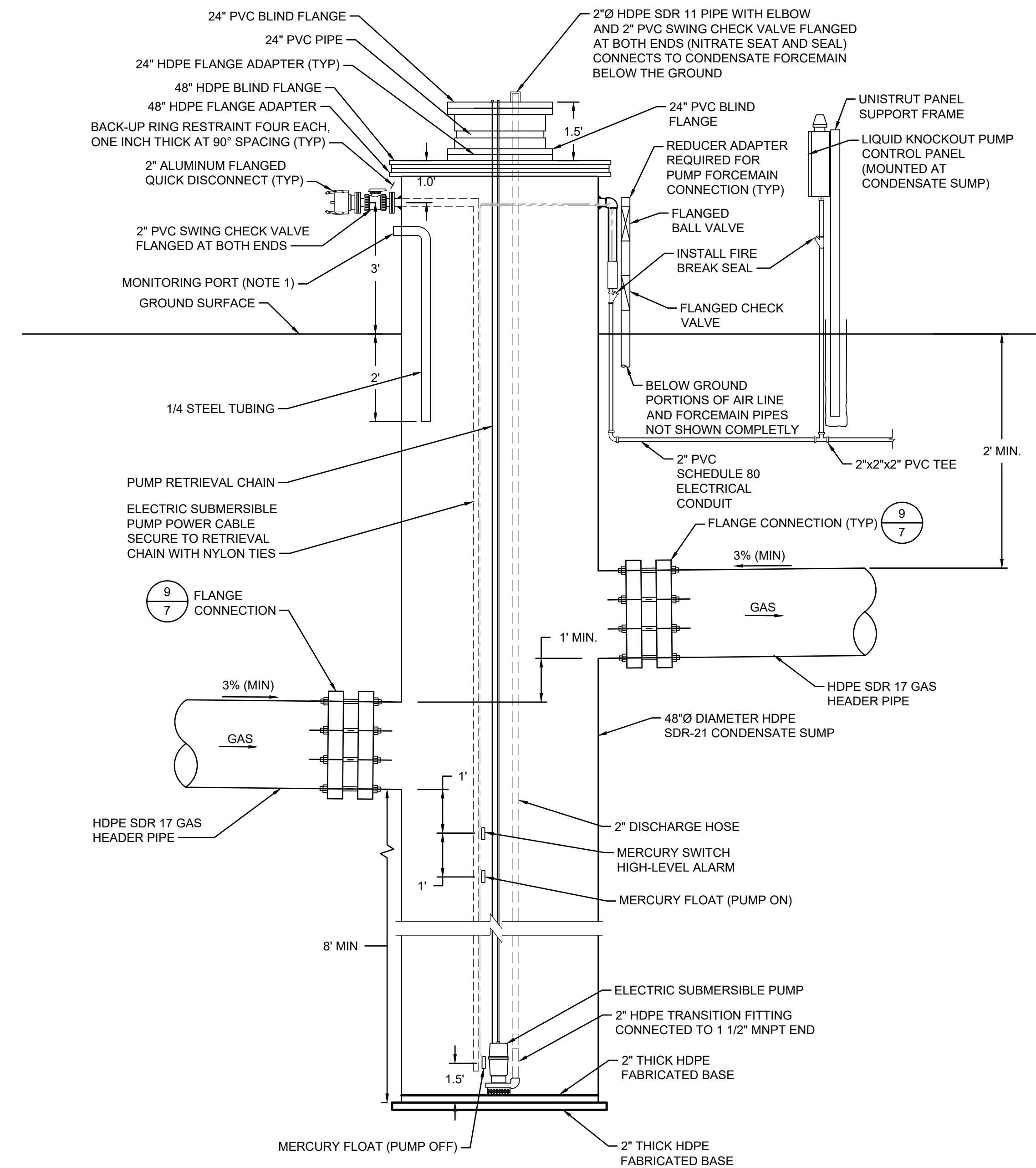
7 OF 9

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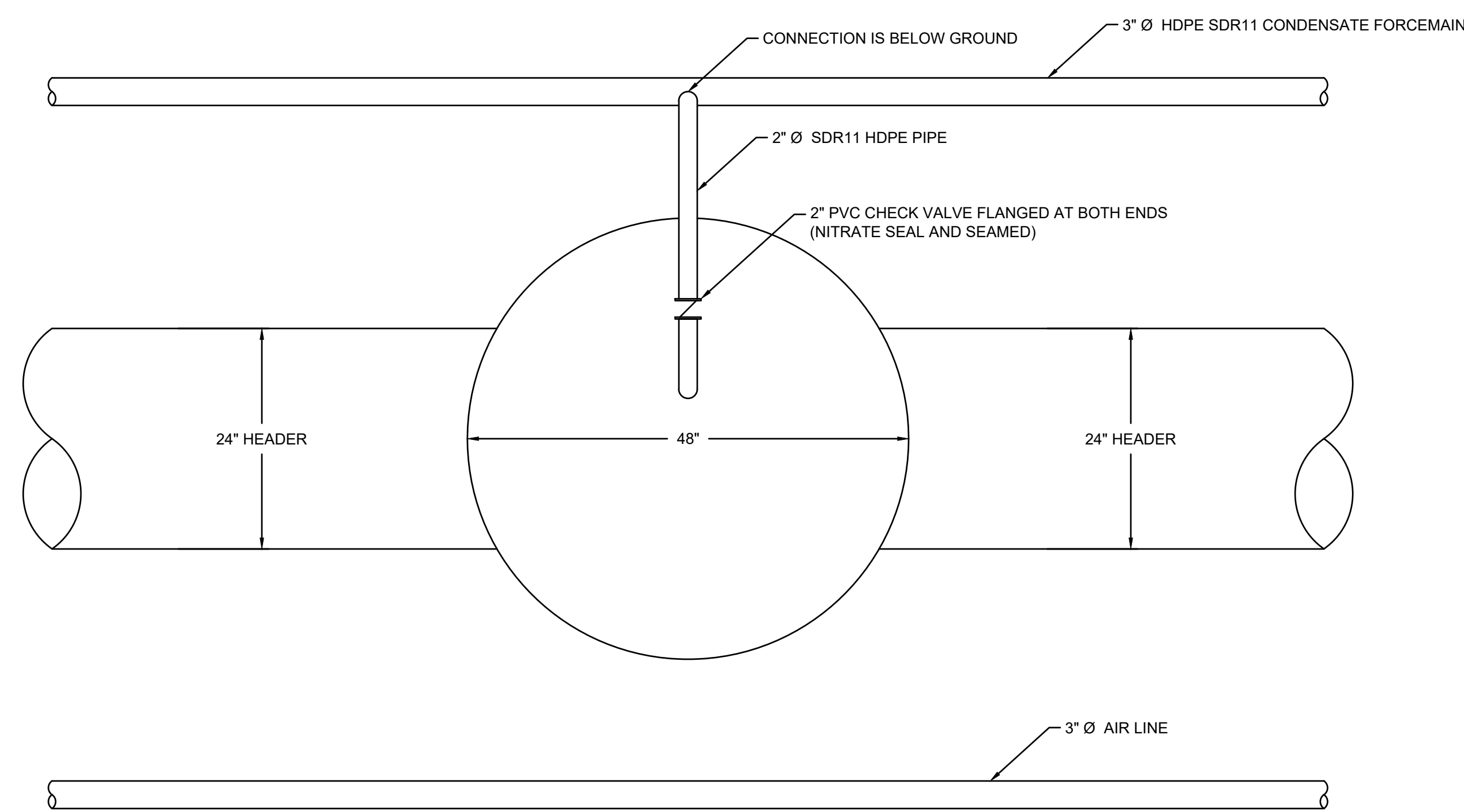




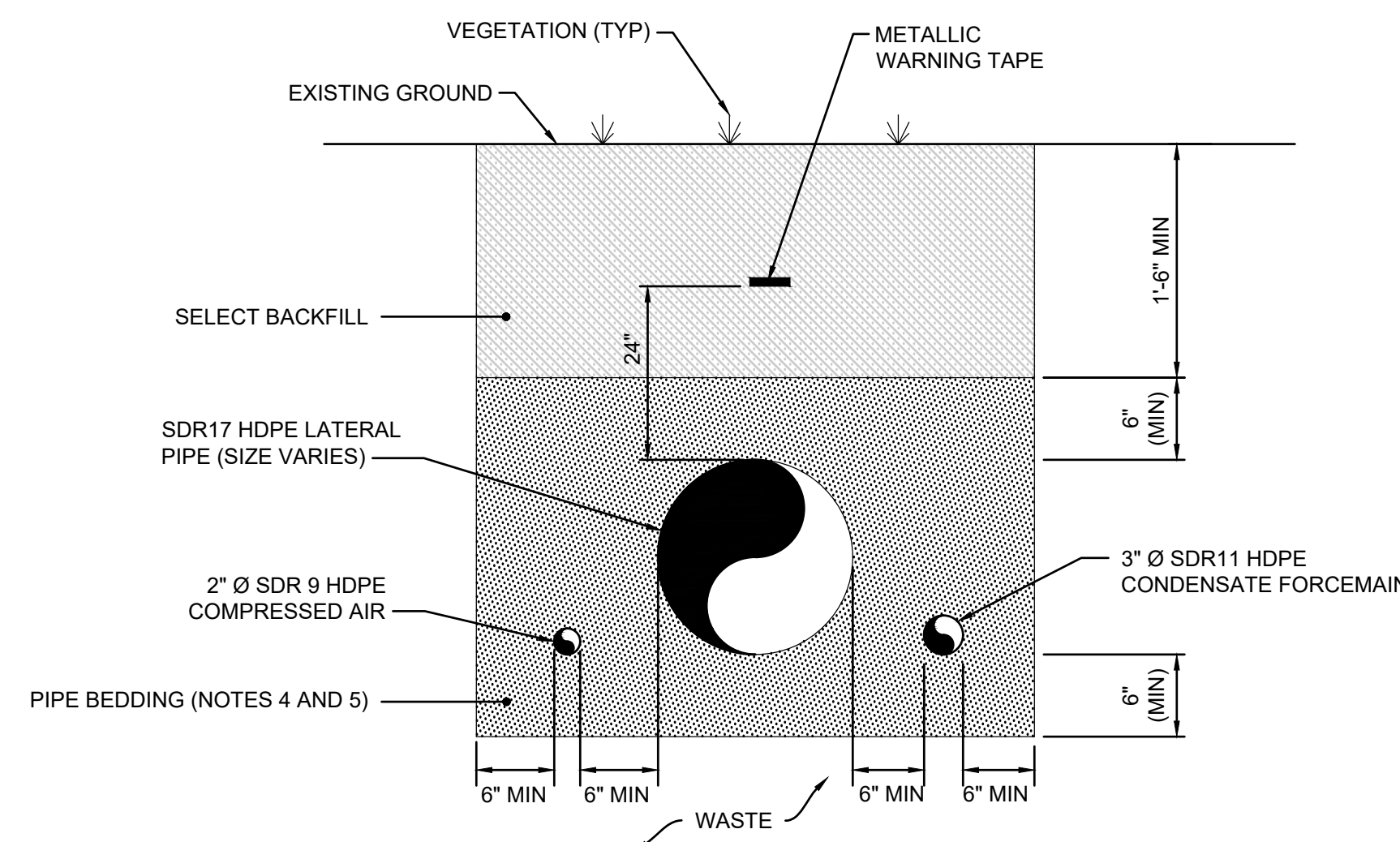
**10**  
3  
DETAIL  
BLIND FLANGE (TYP)  
SCALE: N.T.S.



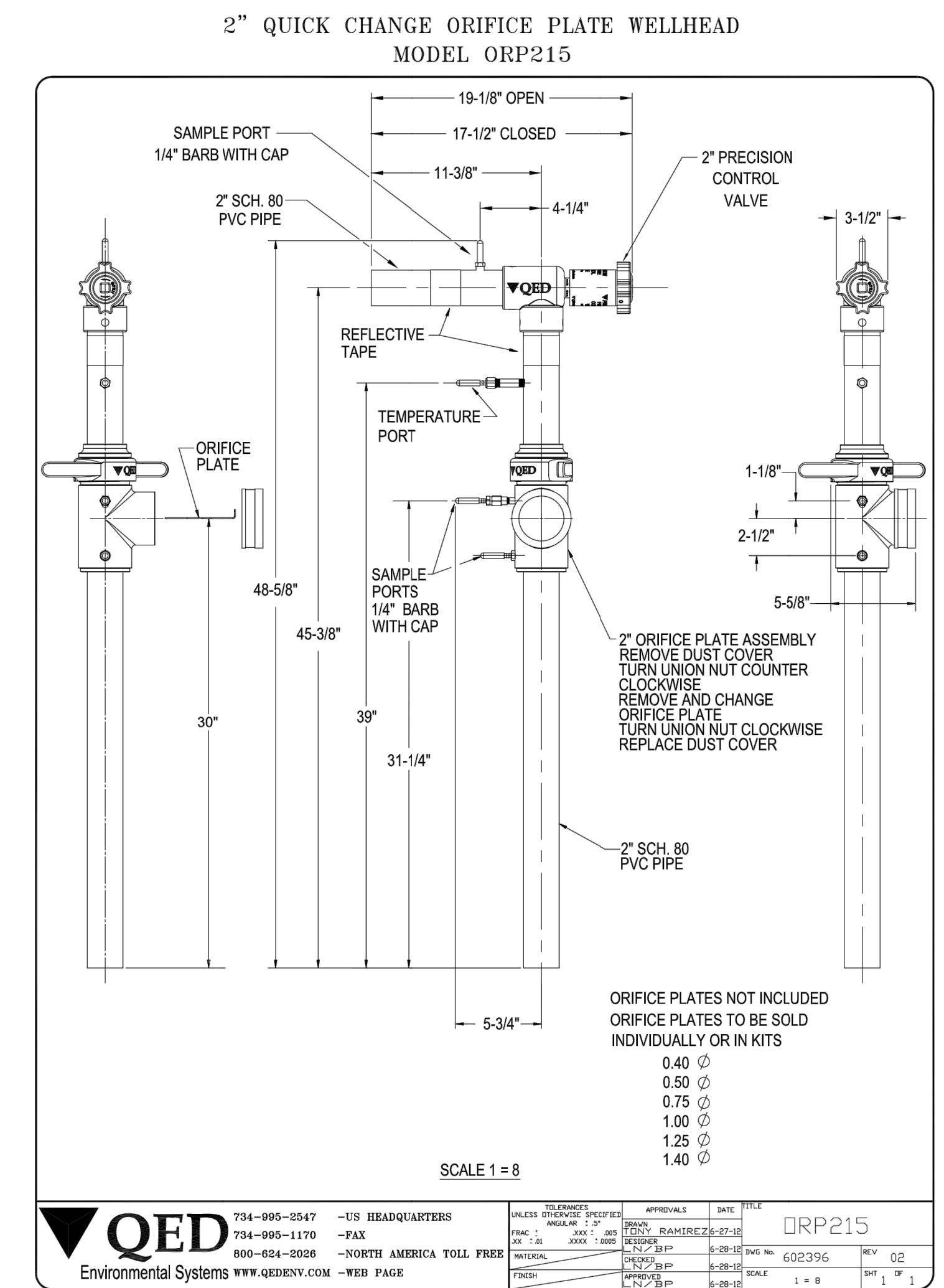
**11**  
3  
DETAIL  
CONDENSATE KNOCKOUT SUMP WITH ELECTRIC PUMP  
SCALE: N.T.S.



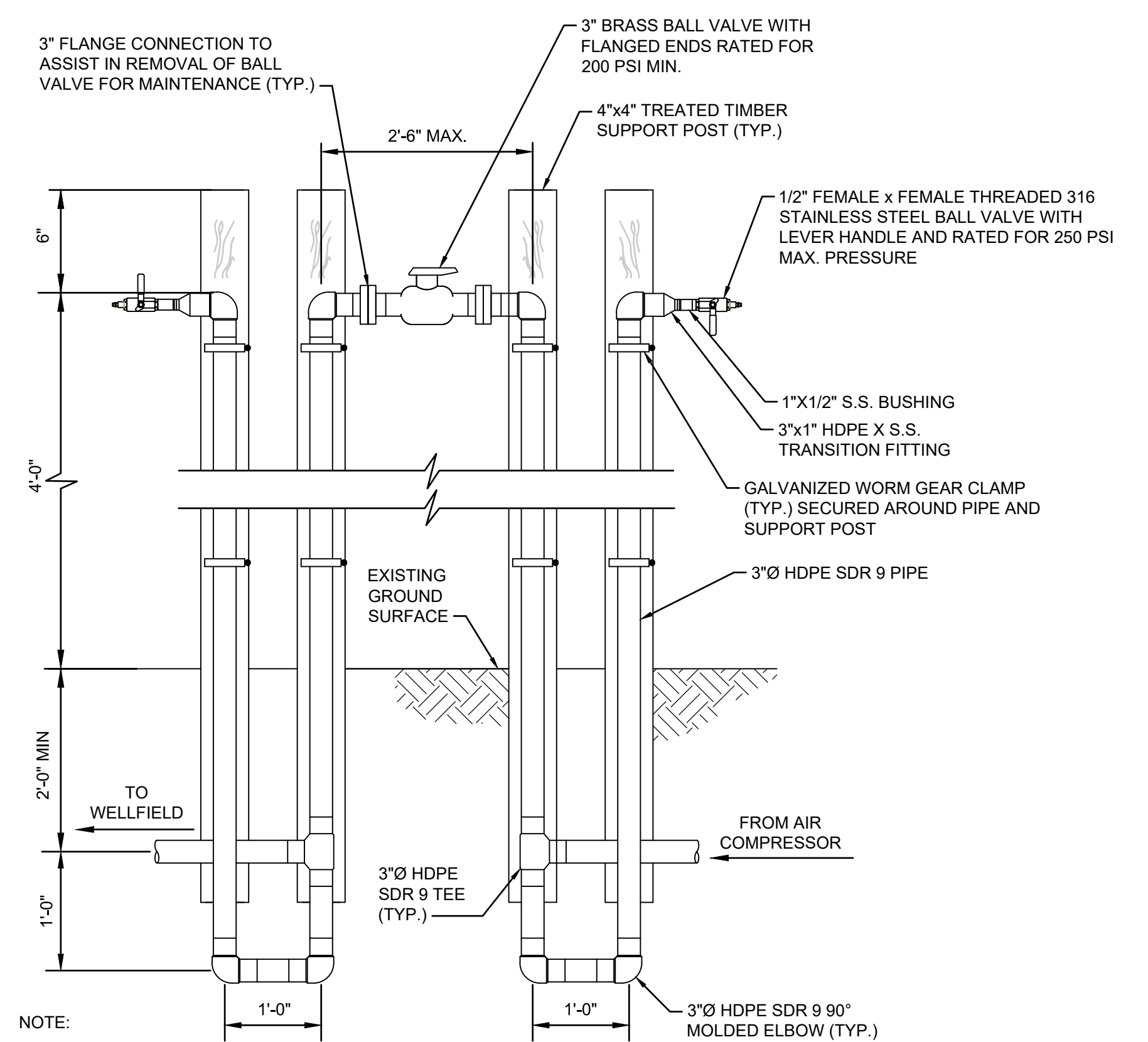
**13**  
3  
DETAIL  
FORCEMAIN TIE-IN AT SUMP RISER  
SCALE: N.T.S.



**14**  
7  
DETAIL  
LATERAL PIPE COMMON TRENCH  
SCALE: N.T.S.



**12**  
7  
DETAIL  
2-INCH QUICK CHANGE ORIFICE PLATE WELLHEAD  
SCALE: N.T.S.



**15**  
3  
DETAIL  
COMPRESSED AIR ISOLATION AND BLOW OFF VALVE  
SCALE: N.T.S.

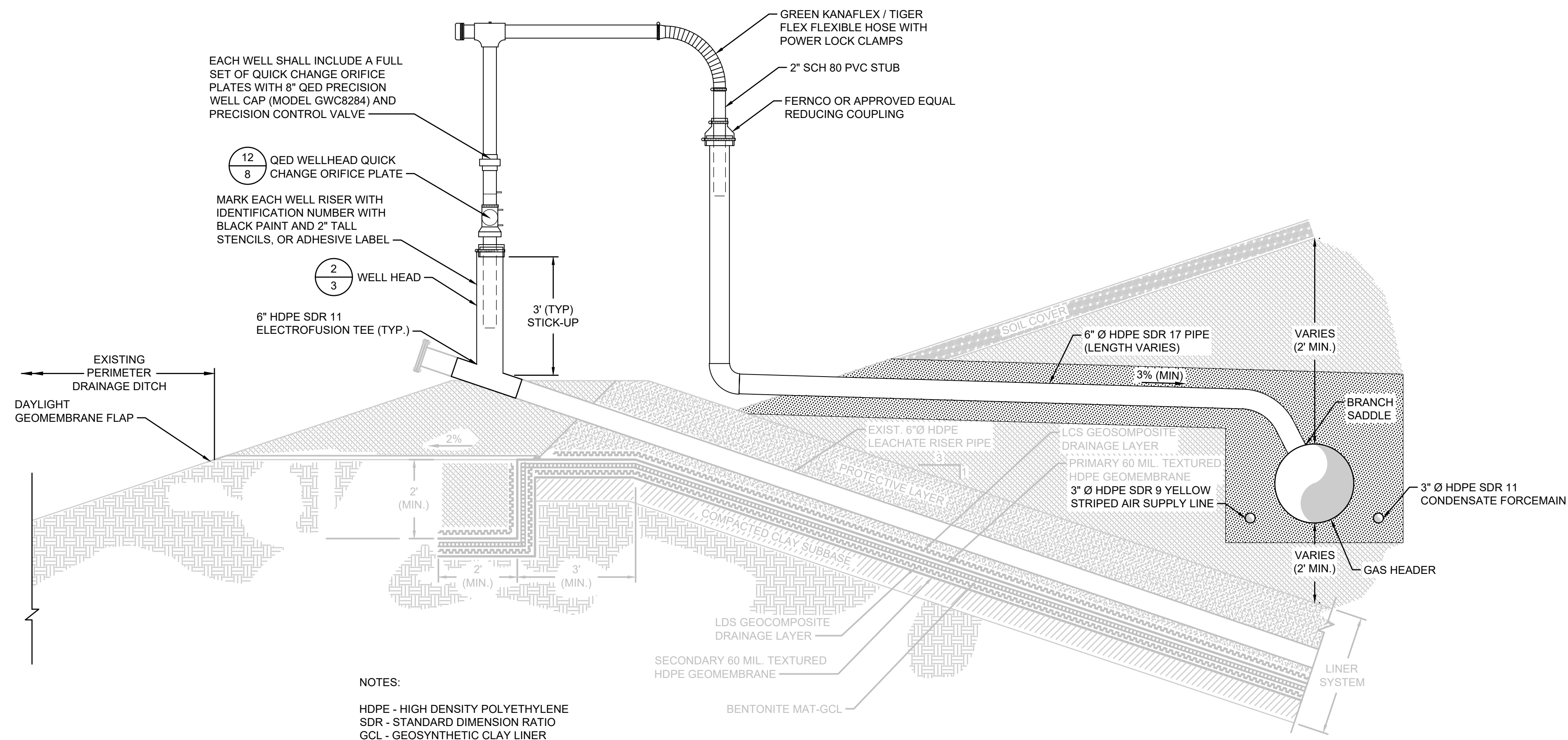
REV	DATE	DESCRIPTION	DRN	APP
A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY	JJA	JAS

1255 ROBERTS BOULEVARD, N.W., SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.9500		SEMINOLE ROAD LANDFILL 4203 CLEVELAND ROAD ELLENWOOD, GEORGIA 30234 USA	
TITLE: GCCS DETAILS II			
PROJECT: GCCS - PHASE 3 UNIT 3 EXPANSION			
SITE: SEMINOLE ROAD LANDFILL DEKALB COUNTY, GEORGIA			
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.  SIGNATURE _____ DATE _____	<b>DRAFT</b>	DESIGN BY: JAS	DATE: AUGUST 2017
		DRAWN BY: SRN/JJA	PROJECT NO.: GD5409
		CHECKED BY: MAO	FILE: 5409-010
		REVIEWED BY: HA	DRAWING NO.:
		APPROVED BY: JAS	8 OF 9

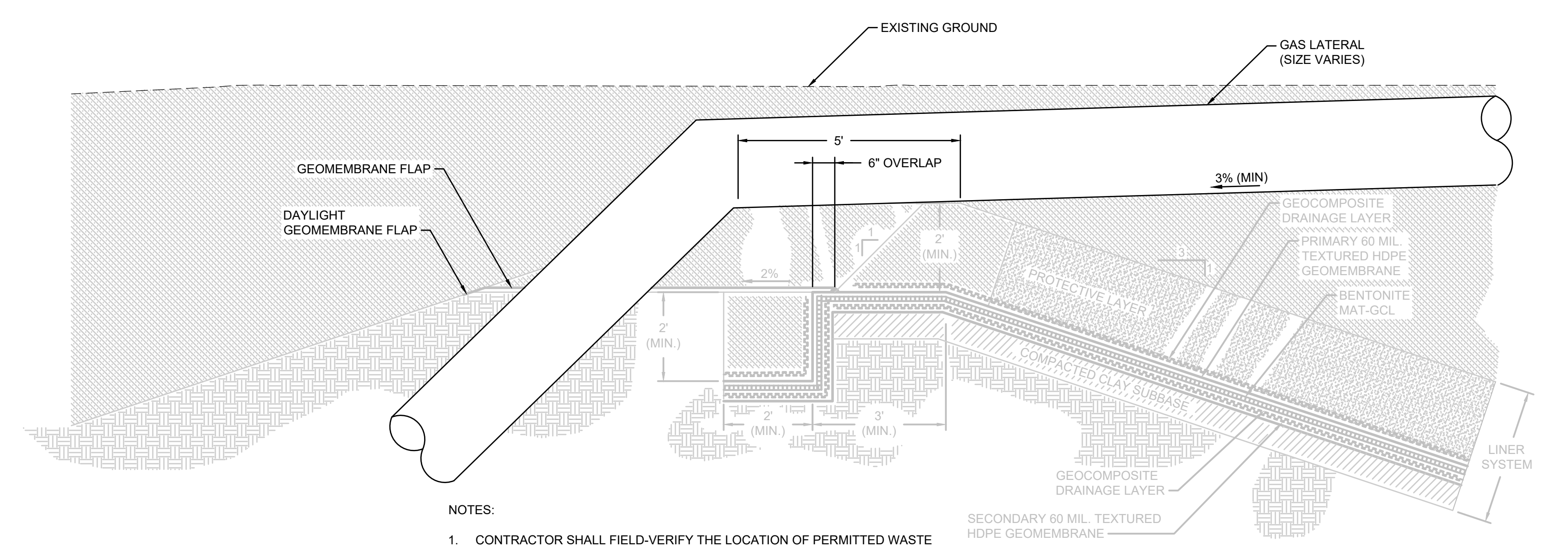
DRAFT





NOTES:  
 HDPE - HIGH DENSITY POLYETHYLENE  
 SDR - STANDARD DIMENSION RATIO  
 GCL - GEOSYNTHETIC CLAY LINER

16  
 3  
 DETAIL  
 LEACHATE CLEANOUT WELL HEAD TIE-IN TO OUT OF WASTE HEADER  
 SCALE: 1" = 2'



NOTES:  
 1. CONTRACTOR SHALL FIELD-VERIFY THE LOCATION OF PERMITTED WASTE LIMITS. ALIGNMENT AND PLACEMENT OF LFG HEADER PIPE TO BE APPROVED BY ENGINEER AFTER FIELD-VERIFICATION.  
 2. HDPE - HIGH DENSITY POLYETHYLENE  
 SDR - STANDARD DIMENSION RATIO  
 GCL - GEOSYNTHETIC CLAY LINER

17  
 -  
 DETAIL  
 GAS HEADER AT LANDFILL PERIMETER  
 SCALE: 1" = 2'

TABLE 1. WELL INSTALLATION SCHEDULE

WELL ID	NORTHING	EASTING	ANTICIPATED EXISTING GROUND ELEVATION (FT)	PROJECTED GROUND ELEVATION (FT)	AS-BUILT LINER ELEVATION (FT)	WELL BOTTOM ELEVATION (FT)	APPROXIMATE WELL DEPTH (FT)	8" SOLID PVC PIPE LENGTH (FT)	8" SLOTTED PVC PIPE LENGTH (FT)
GEW-N68	1332693.96	2268034.75	866.0	866.0	824.0	836.0	30	13	20
GEW-N69	1332860.63	2268081.89	868.0	868.0	821.7	833.7	34	13	24
GEW-N70	1333014.66	2268161.08	870.4	870.4	822.3	834.3	36	13	26
GEW-N71	1332995.78	2268334.05	884.0	884.0	841.5	853.5	31	13	21
GEW-N72	1333005.47	2268506.98	882.0	882.0	841.3	853.3	29	13	19
GEW-N73	1332949.09	2268670.75	896.0	896.0	851.3	863.3	33	13	23
GEW-N138	1332518.98	2268110.25	882.0	882.0	828.8	840.8	41	13	31
GEW-N139	1332688.22	2268172.04	895.0	895.0	827.6	839.6	55	13	45
GEW-N140	1332860.48	2268213.27	902.0	902.0	825.6	837.6	64	13	54
GEW-N141	1332824.59	2268370.71	912.0	912.0	842.8	854.8	57	13	47
GEW-N142	1332875.23	2268488.92	914.0	914.0	842.6	854.6	59	13	49
GEW-N143	1332840.13	2268638.12	919.6	919.6	851.3	863.3	56	13	46
GEW-N185	1332341.11	2268140.02	892.0	892.0	833.0	845.0	47	13	37
GEW-N186	1332501.70	2268290.15	914.0	914.0	848.6	860.6	93	13	83
GEW-N187	1332671.30	2268356.10	914.0	914.0	845.0	857.0	97	13	87
GEW-N188	1332646.49	2268529.27	921.0	921.0	846.5	858.5	73	13	63
GEW-N189B	1332624.96	2268815.00	931.3	931.3	848.1	860.1	71	13	61
GEW-N193B	1331676.38	2268841.01	913.6	913.6	871.9	883.9	30	13	20
GEW-N222	1332069.01	2268040.69	873.0	873.0	835.0	847.0	26	13	16
GEW-N223	1332202.27	2268276.65	917.0	917.0	852.6	864.6	52	13	42
GEW-N224	1332377.52	2268437.41	923.0	923.0	848.1	860.1	63	13	53
GEW-N225	1332411.58	2268832.18	934.0	934.0	858.2	870.2	63	13	53
GEW-N225B	1332418.21	2268801.29	928.0	928.0	858.2	870.2	58	13	48
GEW-N227B	1332197.69	2268794.91	932.9	932.9	858.2	870.2	63	13	53
GEW-N228A	1331999.10	2268667.28	920.0	920.0	866.2	878.2	42	13	32
GEW-N229	1331784.87	2268667.95	890.1	890.1	859.2	871.2	29	13	19
GEW-N252	1331930.48	2268174.13	909.0	909.0	841.5	853.5	55	13	45
GEW-N253	1332029.39	2268408.57	924.0	924.0	852.1	864.1	60	13	50
GEW-N254A	1332215.94	2268573.92	941.0	941.0	853.2	865.2	76	13	66
GEW-N255	1331863.46	2268428.35	913.0	913.0	854.7	866.7	76	13	66
GEW-N256	1331672.84	2268414.11	880.0	880.0	856.9	868.9	31	13	21
GEW-N273	1331740.41	2268160.41	868.0	868.0	844.6	856.6	45	13	35

TABLE 2. CONTROL POINTS

POINT NUMBER	NORTHING	EASTING	ELEVATION (FT)	TEE SIZE
1	1333111.46'	2268009.94'	848.24'	24" X 6" TEE
2	1333108.14'	2268504.00'	851.37'	24" X 8" TEE
3	1333105.73'	2268426.52'	853.79'	24" X 6" TEE
4	1333078.58'	2268309.42'	857.41'	24" X 6" TEE
5	1333003.27'	2268171.69'	29.97'	24" X 6" TEE
6	1332928.49'	2268104.45'	857.37'	24" X 6" TEE
7	1332873.82'	2268064.35'	855.33'	24" X 6" TEE
8	1332523.78'	2267982.13'	844.38'	24" X 8" TEE
9	1332700.04'	2268014.54'	849.86'	24" X 6" TEE
10	1332331.95'	2267979.64'	842.83'	24" X 6" TEE
11	1332066.44'	2267994.92'	850.81'	24" X 6" TEE
12	1331909.07'	2268051.71'	856.11'	24" X 6" TEE
13	1331682.74'	2268147.16'	864.38'	24" X 6" TEE
14	1331629.76'	2268439.52'	873.45'	24" X 6" TEE
15	1331775.71'	2268671.96'	881.68'	24" X 6" TEE
16	1331659.13'	2268830.88'	902.56'	24" X 6" TEE
17	1332859.39'	2268053.77'	854.05'	24" X 24" TEE
18	1331658.61'	2268050.96'	862.39'	24" X 24" TEE

NOTES:  
 1. THE CONFIGURATION OF THE LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS) RISERS SHOWN HERE IS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL FIELD-VERIFY THE ACTUAL CONDITIONS PRIOR TO CONSTRUCTION. THE DEPICTION SHOWN ON THIS DETAIL IS INTENDED TO SHOW THE GENERAL INTENT OF THE TIE-IN OF THE DEWATERING DISCHARGE LINE, CONDENSATE DRIP LEGS, AND LFG COLLECTION LINES TO THE LEACHATE COLLECTION SYSTEM.

A	08.03.17	DRAFT SUBMITTAL TO DEKALB COUNTY	JJA	JAS
REV	DATE	DESCRIPTION	DRN	APP
1255 ROBERTS BOULEVARD, N.W., SUITE 200 KENNESAW, GEORGIA 30144 USA PHONE: 678.202.9500		SEMINOLE ROAD LANDFILL 4203 CLEVELAND ROAD ELLENWOOD, GEORGIA 30234 USA		
TITLE: GCCS DETAILS III				
PROJECT: GCCS - PHASE 3 UNIT 3 EXPANSION				
SITE: SEMINOLE ROAD LANDFILL DEKALB COUNTY, GEORGIA				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.			DESIGN BY: JAS	DATE: AUGUST 2017
			DRAWN BY: SRN/JJA	PROJECT NO.: GD5409
			CHECKED BY: MAO	FILE: 5409-011
			REVIEWED BY: HA	DRAWING NO.: 9 OF 9
APPROVED BY: JAS				

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