

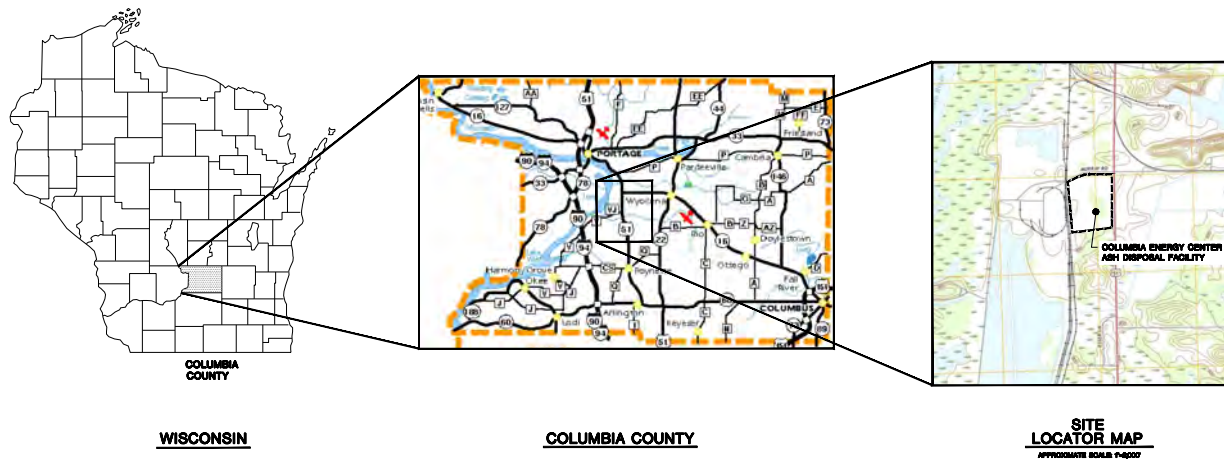
PLAN OF OPERATION UPDATE COLUMBIA ENERGY CENTER

COLUMBIA DRY ASH DISPOSAL FACILITY LICENSE NO. 03025 TOWN OF PACIFIC COLUMBIA COUNTY, WISCONSIN

**PREPARED FOR: WISCONSIN POWER AND LIGHT COMPANY
COLUMBIA ENERGY CENTER**

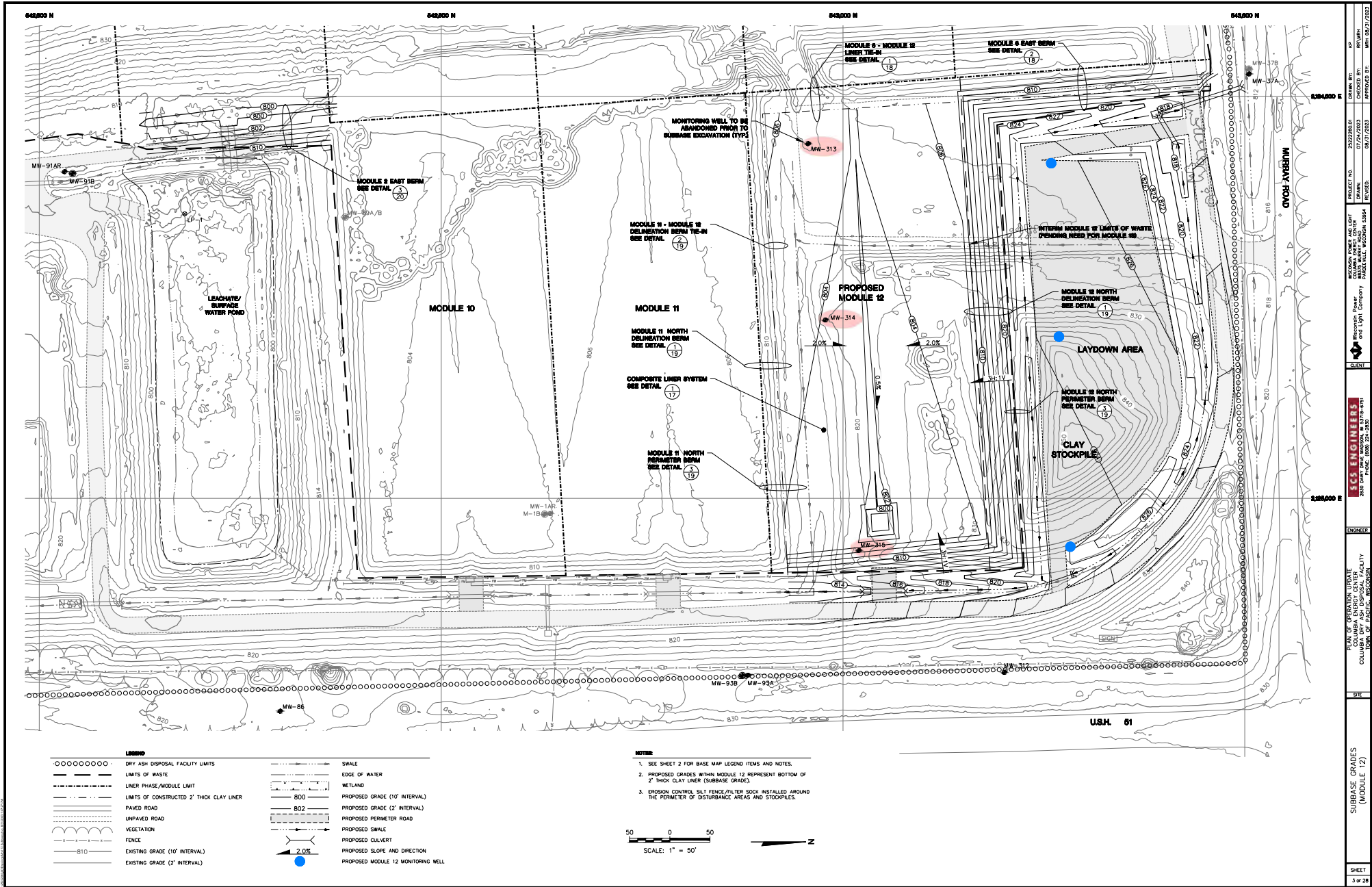
**PREPARED BY: SCS ENGINEERS
MADISON, WISCONSIN**

DATE: SEPTEMBER 2023



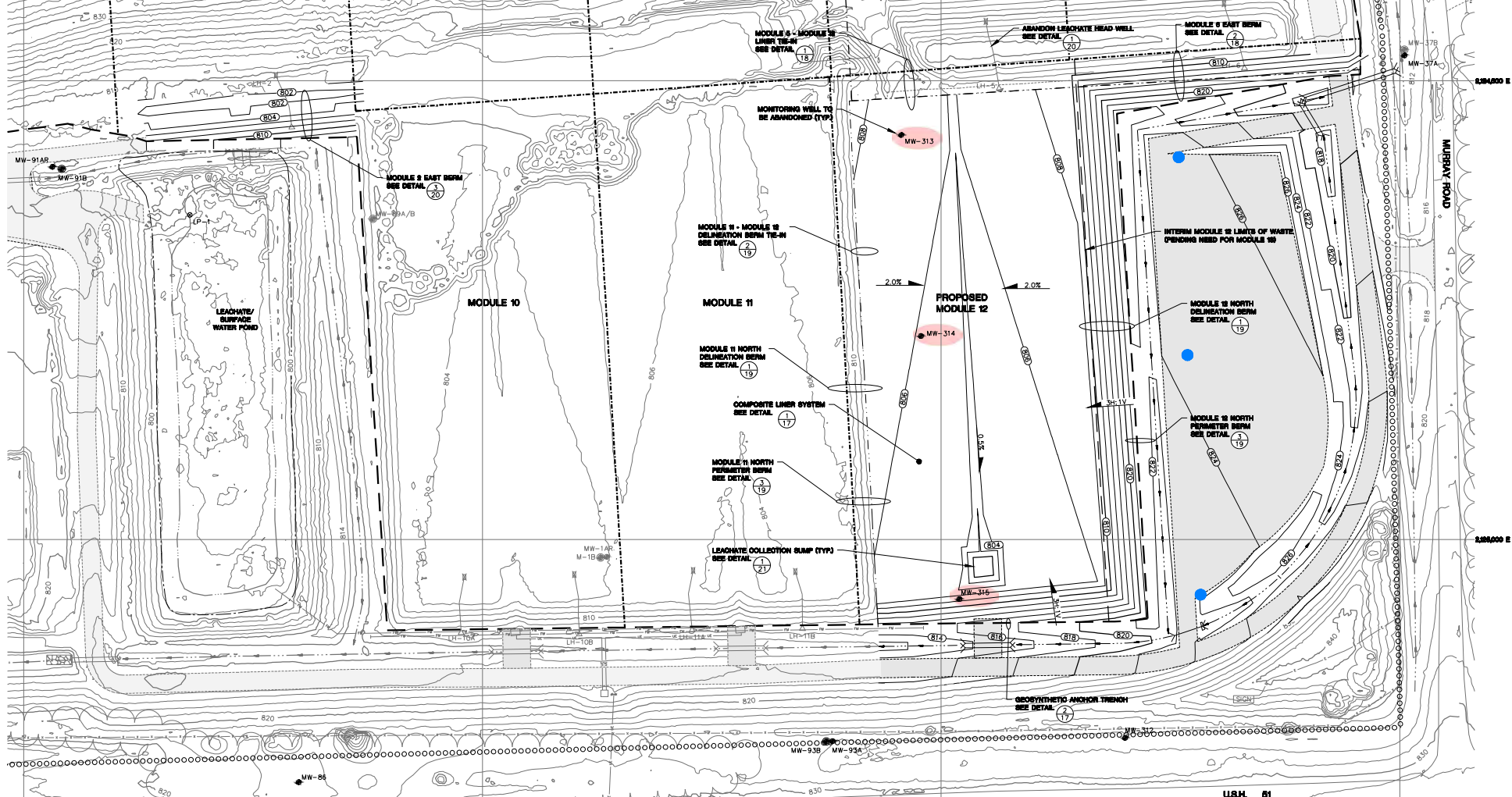
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PROJECT NO.	22222601	DATE	07/27/2023
	PROJECT NAME		WISCONSIN DRY ASH DISPOSAL FACILITY
DRAWN BY	WJL	CHECKED BY	WJL
	DATE		07/27/2023
CLIENT	WISCONSIN DEPARTMENT OF TRANSPORTATION	PROJECT NO.	22222601
	PROJECT NAME		WISCONSIN DRY ASH DISPOSAL FACILITY
ENGINEER	WISCONSIN DEPARTMENT OF TRANSPORTATION	DATE	07/27/2023
	PROJECT NAME		WISCONSIN DRY ASH DISPOSAL FACILITY
SHEET	3 OF 28	DATE	07/27/2023
	PROJECT NAME		WISCONSIN DRY ASH DISPOSAL FACILITY

842000 N 842000 N 842000 N 842000 N



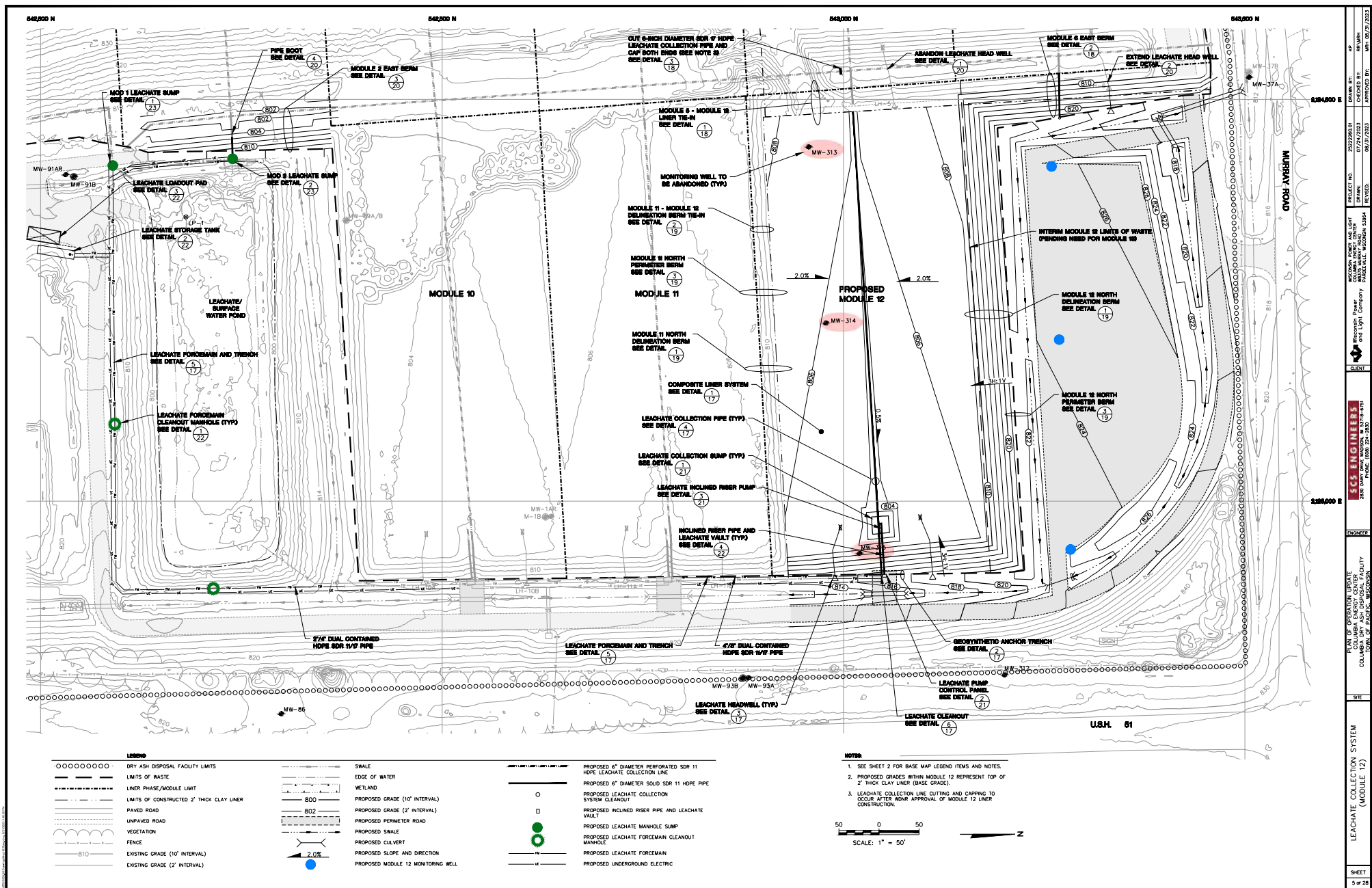
LEGEND	
	DRY ASH DISPOSAL FACILITY LIMITS
	LIMITS OF WASTE
	LINER PHASE/MODULE LIMIT
	LIMITS OF CONSTRUCTED 2' THICK CLAY LINER
	PAVED ROAD
	UNPAVED ROAD
	VEGETATION
	FENCE
	EXISTING GRADE (10' INTERVAL)
	EXISTING GRADE (2' INTERVAL)
	SWALE
	EDGE OF WATER
	WETLAND
	PROPOSED GRADE (10' INTERVAL)
	PROPOSED GRADE (2' INTERVAL)
	PROPOSED PERIMETER ROAD
	PROPOSED SWALE
	PROPOSED CULVERT
	PROPOSED SLOPE AND DIRECTION
	PROPOSED MODULE 12 MONITORING WELL

NOTE

- SEE SHEET 2 FOR BASE MAP LEGEND ITEMS AND NOTES.
- PROPOSED GRADES WITHIN MODULE 12 REPRESENT TOP OF 2' THICK CLAY LINER (BASE GRADE).

50 0 50
SCALE: 1" = 50'

N



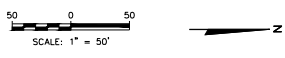
LEGEND

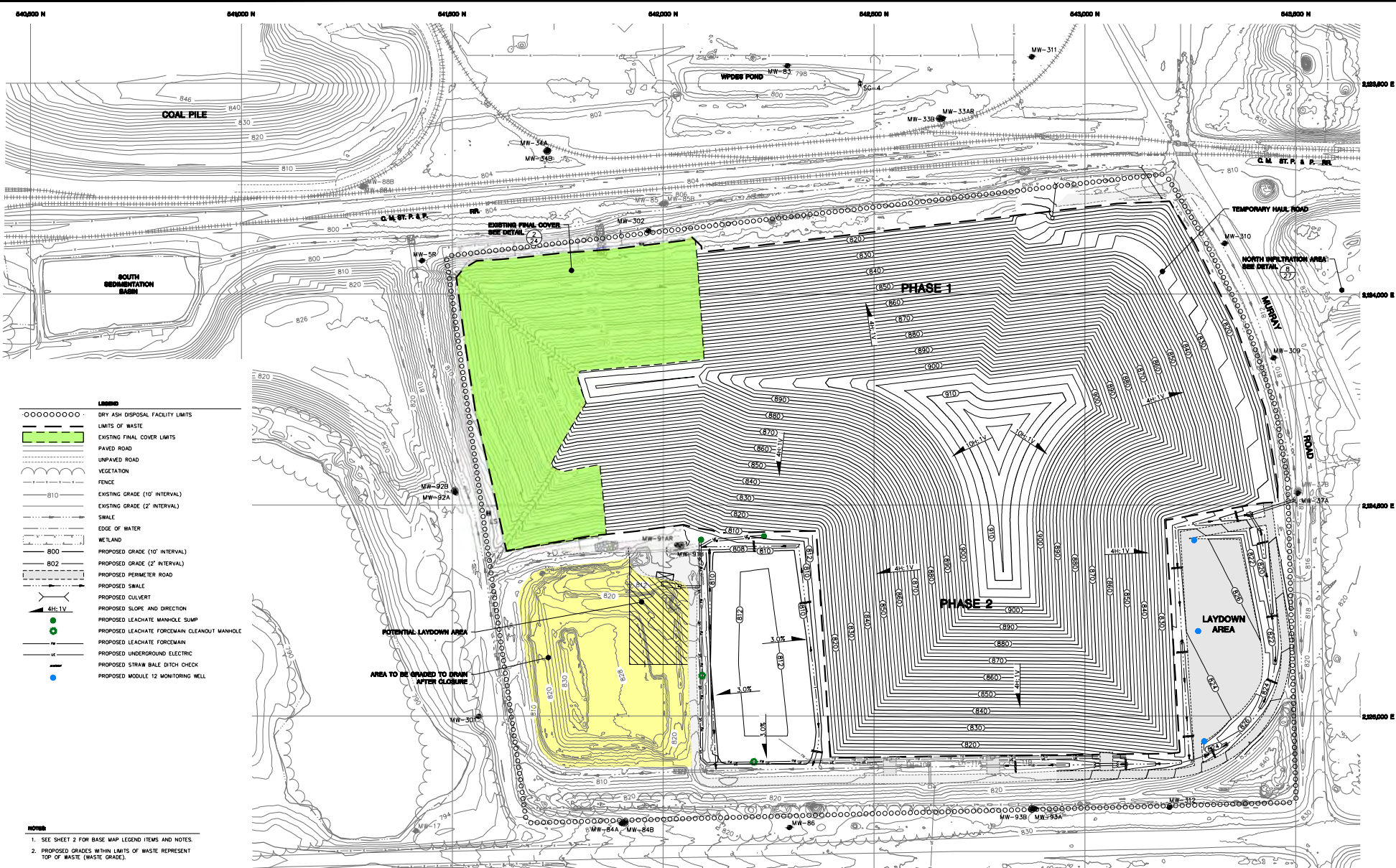
- | | | | |
|---------------------|---|-----------|------------------------------------|
| ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ | DRY ASH DISPOSAL FACILITY LIMITS | — — — — — | SWALE |
| — — — — — | LIMITS OF WASTE | — — — — — | EDGE OF WATER |
| — — — — — | LINER PHASE/MODULE LIMIT | — — — — — | WETLAND |
| — — — — — | LIMITS OF CONSTRUCTED 2" THICK CLAY LINER | — — — — — | PROPOSED GRADE (10' INTERVAL) |
| — — — — — | PAVED ROAD | — — — — — | 800 |
| — — — — — | UNPAVED ROAD | — — — — — | PROPOSED GRADE (2' INTERVAL) |
| — — — — — | VEGETATION | — — — — — | 802 |
| — — — — — | FENCE | — — — — — | PROPOSED PERIMETER ROAD |
| — — — — — | EXISTING GRADE (10' INTERVAL) | — — — — — | PROPOSED SWALE |
| — — — — — | EXISTING GRADE (2' INTERVAL) | — — — — — | PROPOSED CULVERT |
| | | — — — — — | PROPOSED SLOPE AND DIRECTION |
| | | — — — — — | PROPOSED MODULE 12 MONITORING WELL |

- | | |
|-----------|--|
| — — — — — | PROPOSED 6" DIAMETER PERFORATED SDR 11 HOPE LEACHATE COLLECTION LINE |
| — — — — — | PROPOSED 6" DIAMETER SOLID SDR 11 HOPE PIPE |
| — — — — — | PROPOSED LEACHATE COLLECTION SYSTEM CLEANOUT |
| — — — — — | PROPOSED INCLINED RISER PIPE AND LEACHATE VAULT |
| — — — — — | PROPOSED LEACHATE MANHOLE SUMP |
| — — — — — | PROPOSED LEACHATE FORECMAIN CLEANOUT MANHOLE |
| — — — — — | PROPOSED LEACHATE FORECMAIN |
| — — — — — | PROPOSED UNDERGROUND ELECTRIC |

NOTES

- SEE SHEET 2 FOR BASE MAP LEGEND ITEMS AND NOTES.
- PROPOSED GRADES WITHIN MODULE 12 REPRESENT TOP OF 2" THICK CLAY LINER (BASE GRADE).
- LEACHATE COLLECTION LINE CUTTING AND CAPPING TO OCCUR AFTER WWR APPROVAL OF MODULE 12 LINER CONSTRUCTION.



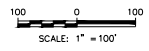


LEGEND

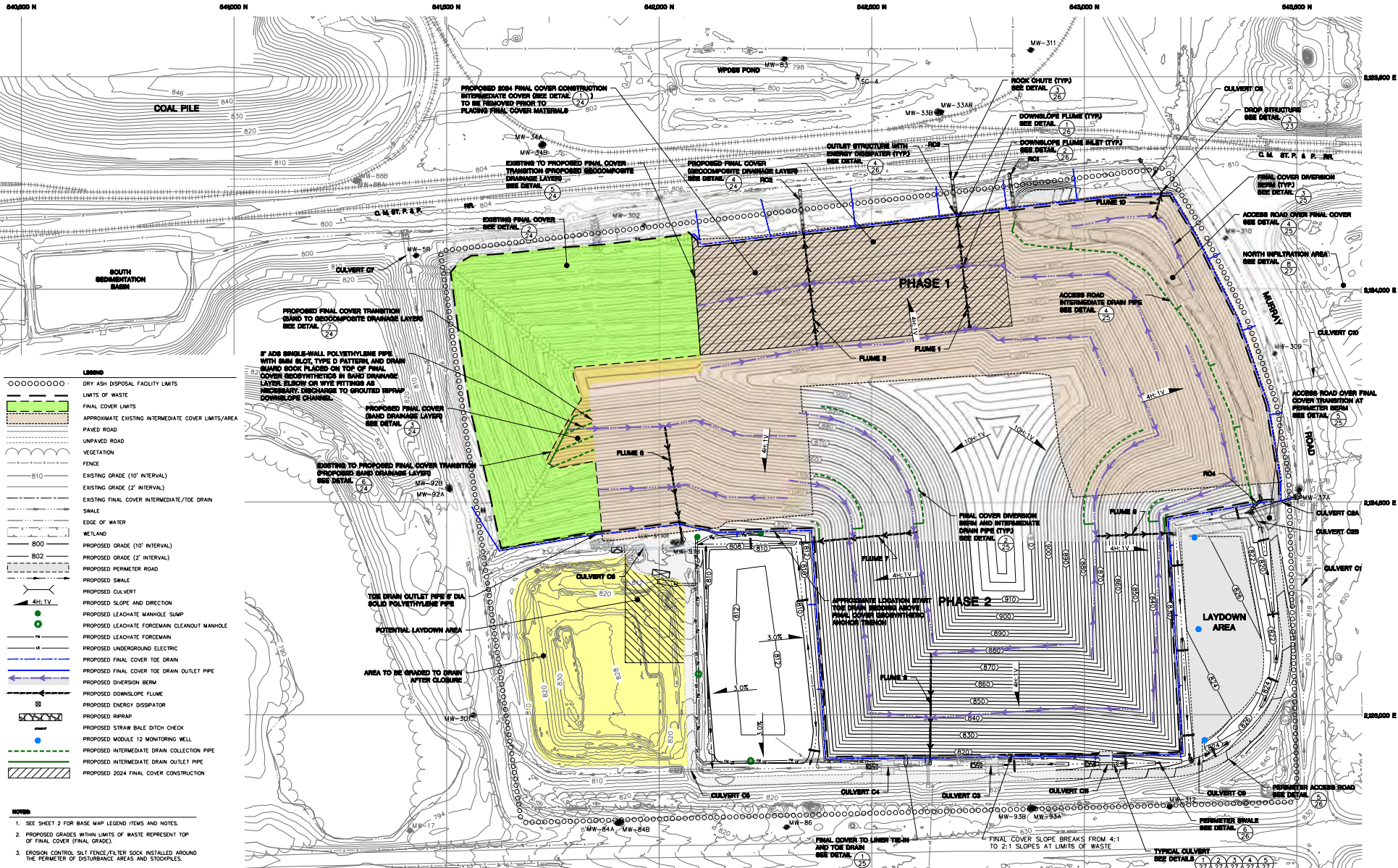
○○○○○○○○	DRY ASH DISPOSAL FACILITY LIMITS
— — — — —	LIMITS OF WASTE
▭ (Green)	EXISTING FINAL COVER LIMITS
— — — — —	PAVED ROAD
— — — — —	UNPAVED ROAD
~ ~ ~ ~ ~	VEGETATION
— — — — —	FENCE
— — — — —	EXISTING GRADE (10' INTERVAL)
— — — — —	EXISTING GRADE (2' INTERVAL)
— — — — —	SWALE
— — — — —	EDGE OF WATER
— — — — —	WETLAND
— — — — —	PROPOSED GRADE (10' INTERVAL)
— — — — —	PROPOSED GRADE (2' INTERVAL)
— — — — —	PROPOSED PERMETER ROAD
— — — — —	PROPOSED SWALE
— — — — —	PROPOSED CULVERT
▲ 4H:1V	PROPOSED SLOPE AND DIRECTION
●	PROPOSED LEACHATE MANHOLE SUMP
○	PROPOSED LEACHATE FORECMAIN CLEANOUT MANHOLE
—	PROPOSED LEACHATE FORECMAIN
—	PROPOSED UNDERGROUND ELECTRIC
—	PROPOSED STRAW BALE DITCH CHECK
●	PROPOSED MODULE 12 MONITORING WELL

NOTES

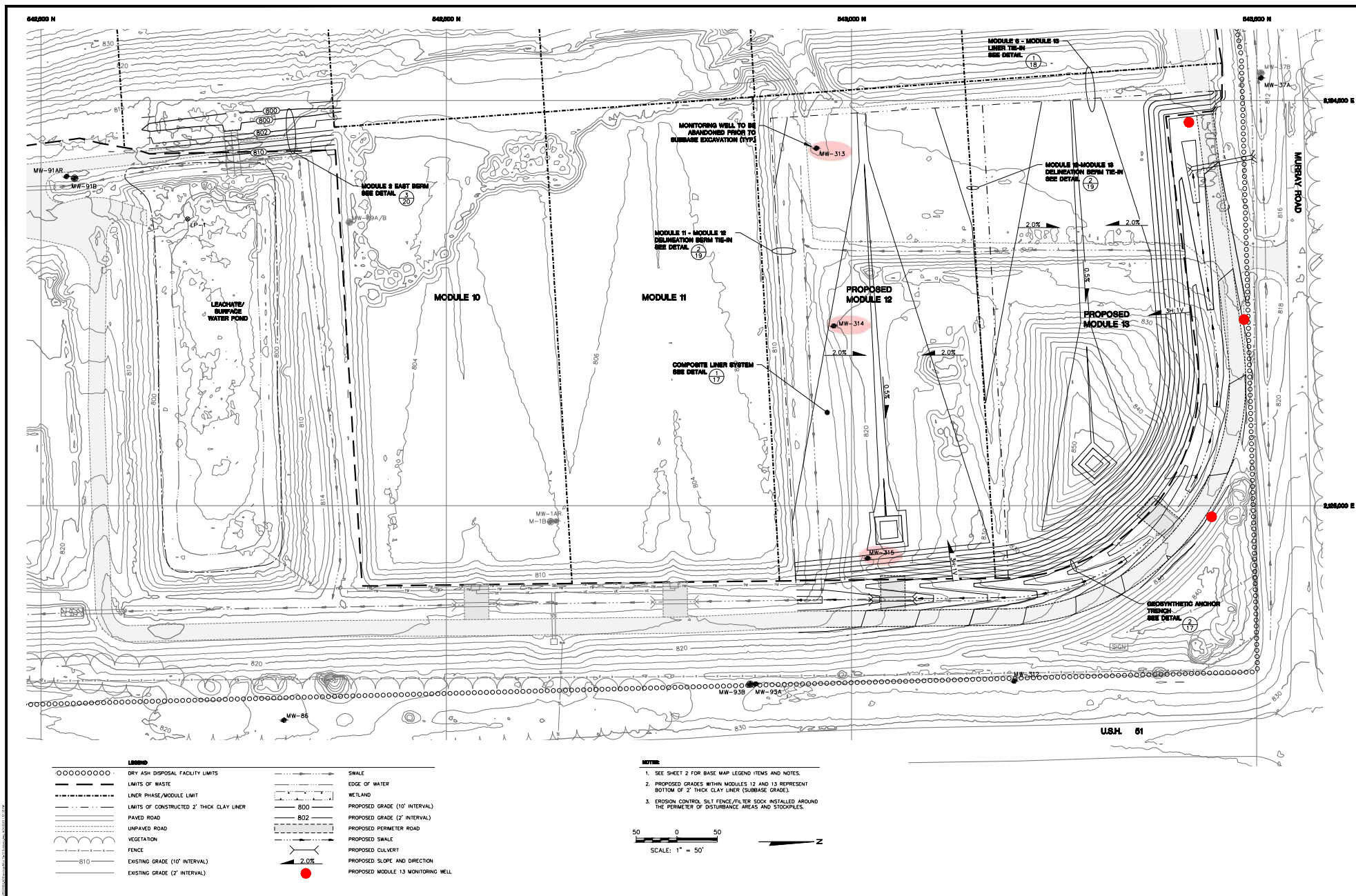
- SEE SHEET 2 FOR BASE MAP LEGEND ITEMS AND NOTES.
- PROPOSED GRADES WITHIN LIMITS OF WASTE REPRESENT TOP OF WASTE (WASTE GRADE).



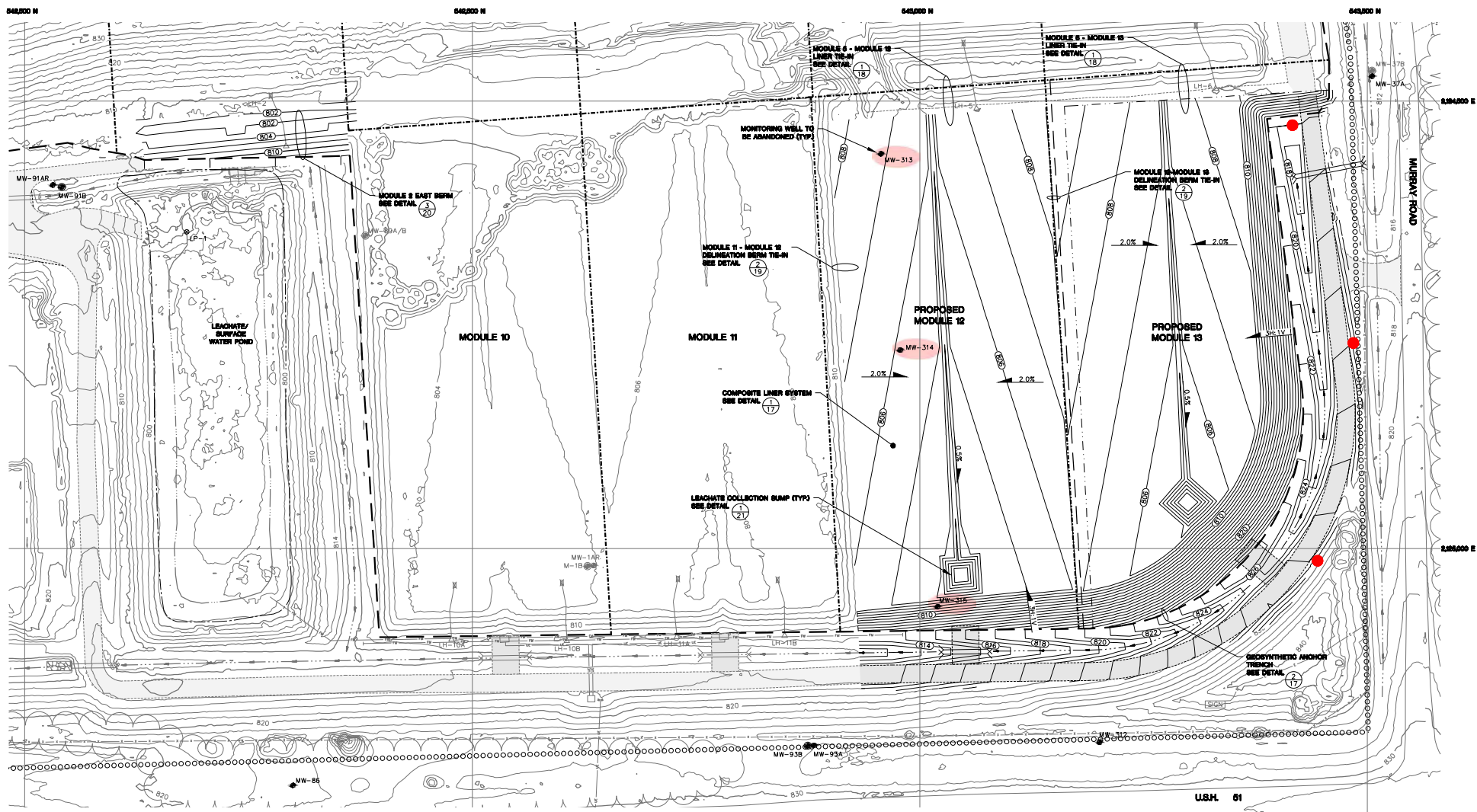
PROJECT NO.	22222603	DATE	07/27/2023
DRAWN BY	W. J. WILSON	CHECKED BY	W. J. WILSON
PROJECT NAME	WISCONSIN POWER AND LIGHT COMPANY WISCONSIN POWER AND LIGHT COMPANY WISCONSIN POWER AND LIGHT COMPANY WISCONSIN POWER AND LIGHT COMPANY	DATE	07/27/2023
CLIENT	WISCONSIN POWER AND LIGHT COMPANY	DATE	07/27/2023
ENGINEER	WISCONSIN POWER AND LIGHT COMPANY	DATE	07/27/2023
SHEET	6 OF 28	DATE	07/27/2023



PROJECT NO. 22226203
 DRAWING NO. 07/27/2023
 DRAWING DATE 09/27/2023
 PROJECT NAME AND LOCATION
 WISCONSIN DRY ASH DISPOSAL FACILITY
 PROJECT NO. 22226203
 DRAWING NO. 07/27/2023
 DRAWING DATE 09/27/2023
 CLIENT
 WISCONSIN DRY ASH DISPOSAL FACILITY
 200 DAW DR. MADISON, WI 53714-7070
 PHONE: (608) 224-2830
 ENGINEER
 PLAN OF OPERATION UPDATE
 COLLUMBI DRY ASH DISPOSAL FACILITY
 TOWN OF ELSTON, WISCONSIN
 SHEET
 7 of 28



DRAWN BY: 222226010
 CHECKED BY: 07/27/2023
 PROJECT NO: 222226010
 SHEET NO: 8 OF 28
 DATE: 08/27/2023
 CLIENT: Wild Light Company
 PROJECT: WILD LIGHT COMPANY
 LOCATION: WILD LIGHT COMPANY
 ADDRESS: 2500 WILD LIGHT AVENUE, WILSON, WI 53174-2701
 PHONE: (408) 254-2850
 PROJECT: PLAN OF OPERATION UPDATE
 FACILITY: COLUMBIAN DRY ASH DISPOSAL FACILITY
 LOCATION: TOWN OF ELSTIC, WISCONSIN
 SHEET: 8 OF 28

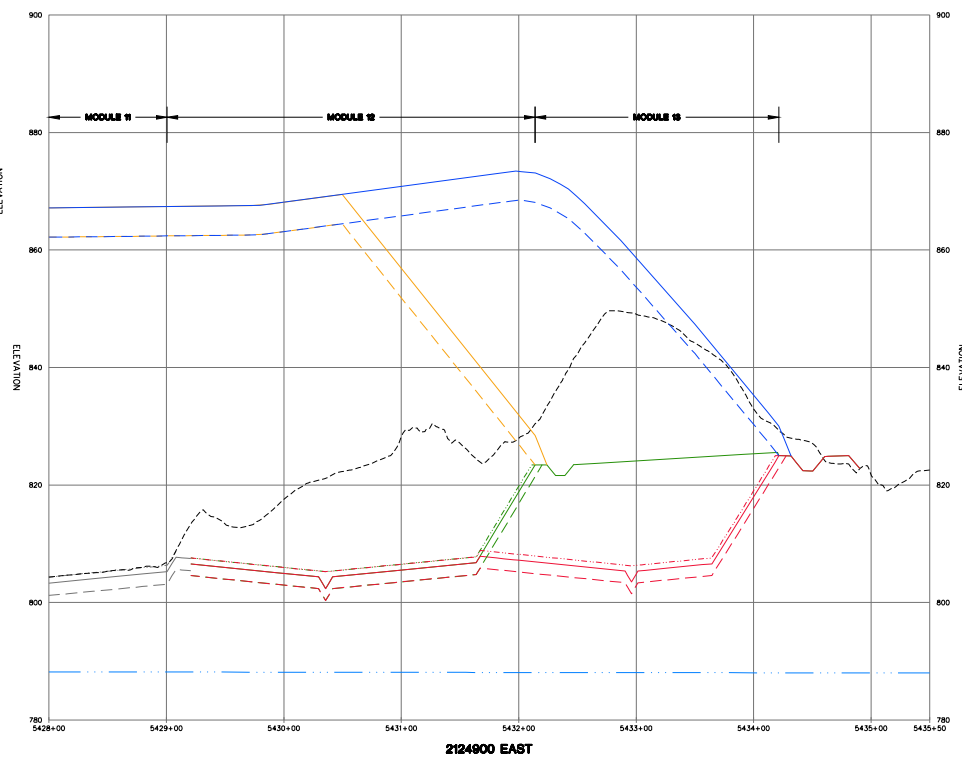
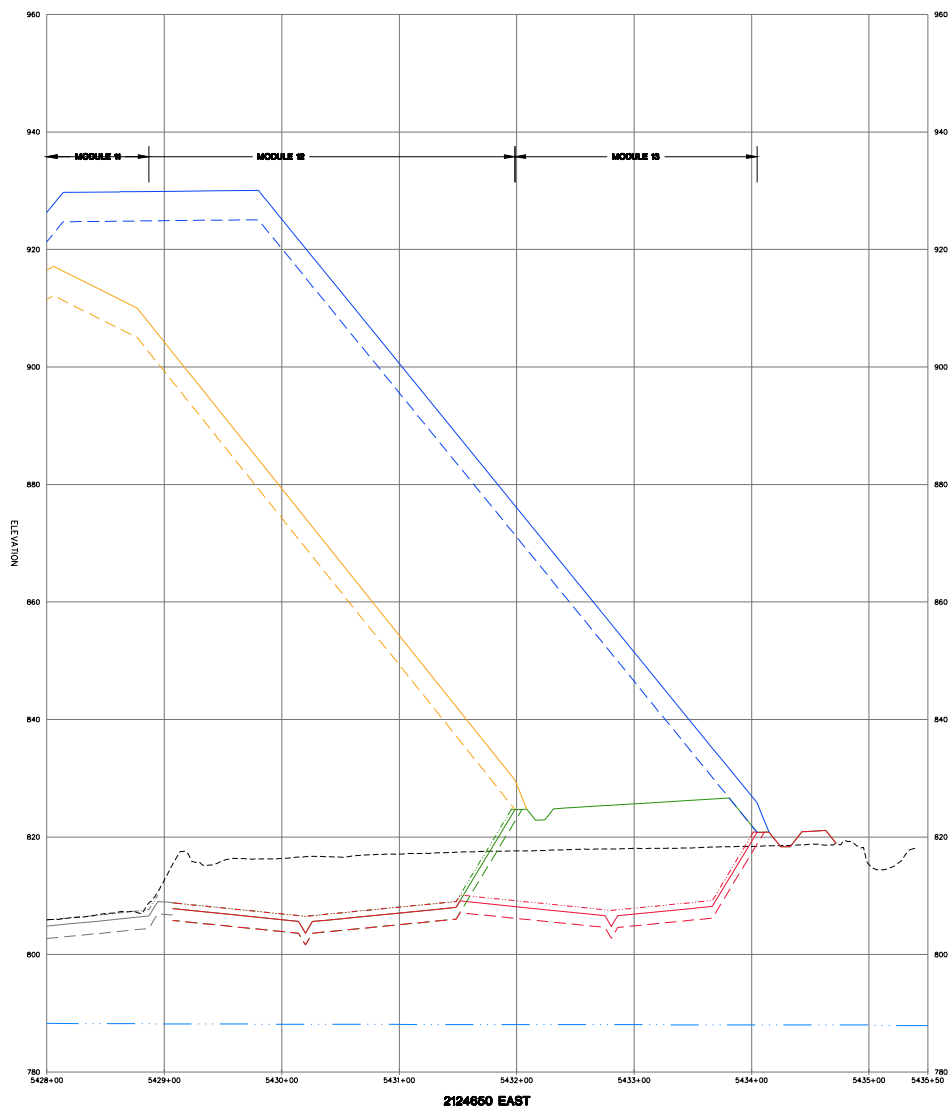


LEGEND	
○○○○○○○○	DRY ASH DISPOSAL FACILITY LIMITS
—	LIMITS OF WASTE
- - - - -	LINER PHASE/MODULE LIMIT
—	LIMITS OF CONSTRUCTED 2" THICK CLAY LINER
—	PAVED ROAD
—	UNPAVED ROAD
—	VEGETATION
—	FENCE
—	EXISTING GRADE (10' INTERVAL)
—	EXISTING GRADE (2' INTERVAL)
—	SWALE
—	EDGE OF WATER
—	WETLAND
—	PROPOSED GRADE (10' INTERVAL)
—	PROPOSED GRADE (2' INTERVAL)
—	PROPOSED PERIMETER ROAD
—	PROPOSED SWALE
—	PROPOSED CULVERT
—	PROPOSED SLOPE AND DIRECTION
●	PROPOSED MODULE 13 MONITORING WELL

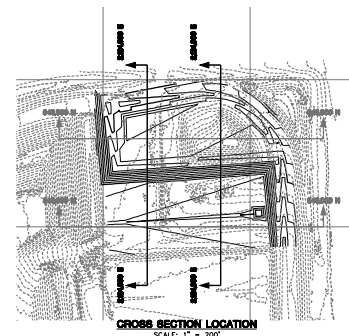
NOTES

- SEE SHEET 2 FOR BASE MAP LEGEND ITEMS AND NOTES.
- PROPOSED GRADES WITHIN MODULES 12 AND 13 REPRESENT TOP OF 2" THICK CLAY LINER (BASE GRADE).

SCALE: 1" = 50'

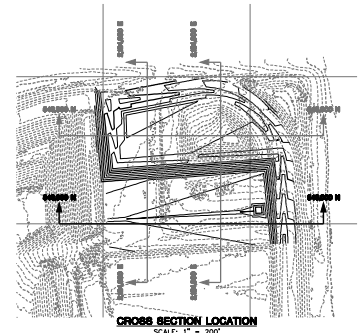
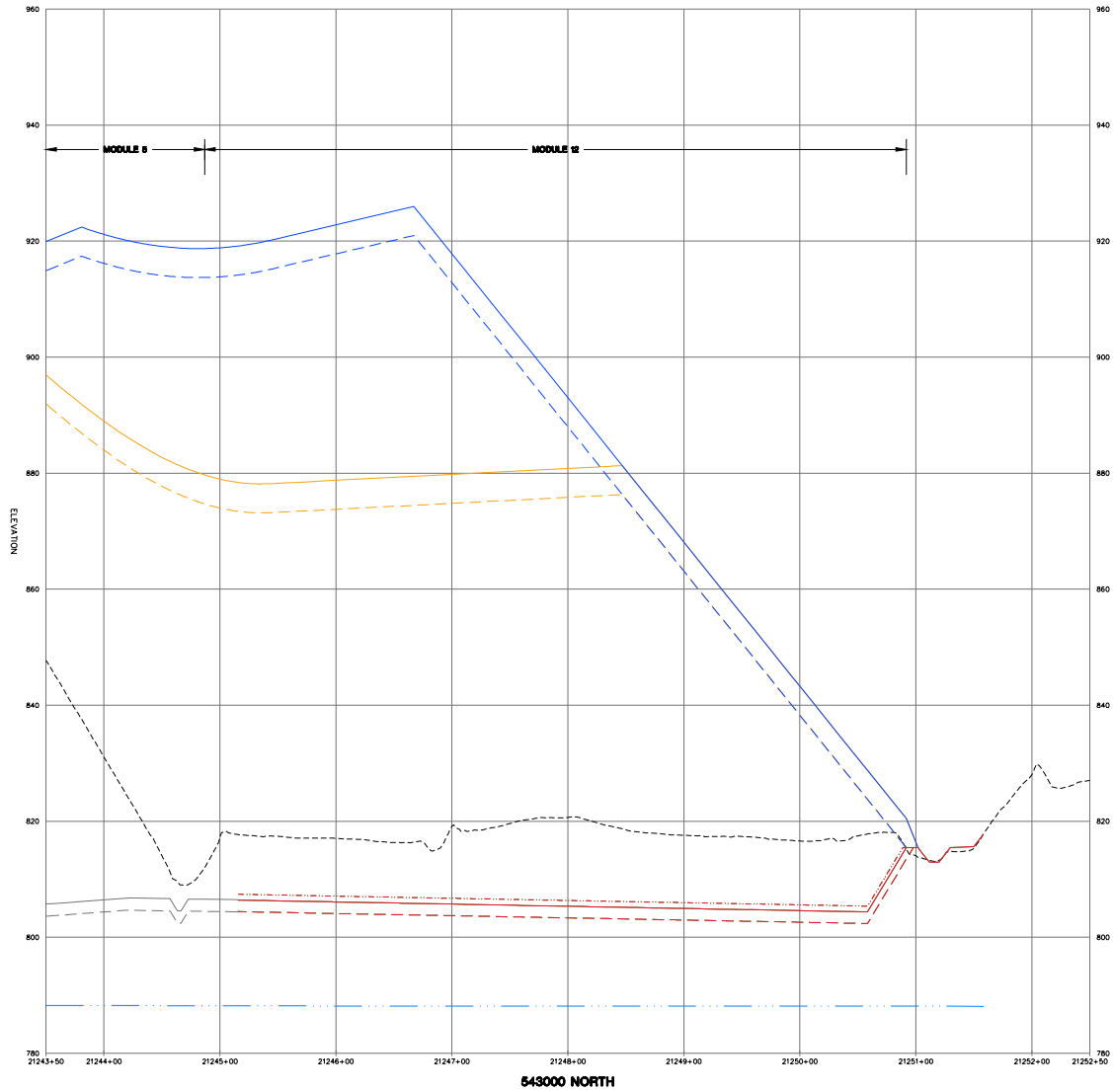


- LEGEND**
- EXISTING GRADE (06/06/2023)
 - DOCUMENTED SUBBASE GRADE
 - DOCUMENTED BASE GRADE
 - DOCUMENTED DRAINAGE LAYER
 - PROPOSED MODULE 12 SUBBASE GRADE
 - PROPOSED MODULE 12 BASE GRADE
 - PROPOSED MODULE 12 DRAINAGE LAYER
 - PROPOSED MODULE 12 WASTE GRADE
 - PROPOSED MODULE 12 FINAL GRADE
 - PROPOSED MODULE 12 AND 13 SUBBASE GRADE
 - PROPOSED MODULE 12 AND 13 BASE GRADE
 - PROPOSED MODULE 12 AND 13 DRAINAGE LAYER
 - PROPOSED MODULE 12 AND 13 WASTE GRADE
 - PROPOSED MODULE 12 AND 13 FINAL GRADE
 - HIGH WATER TABLE (OCTOBER 2018)



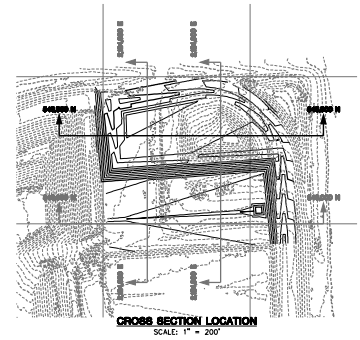
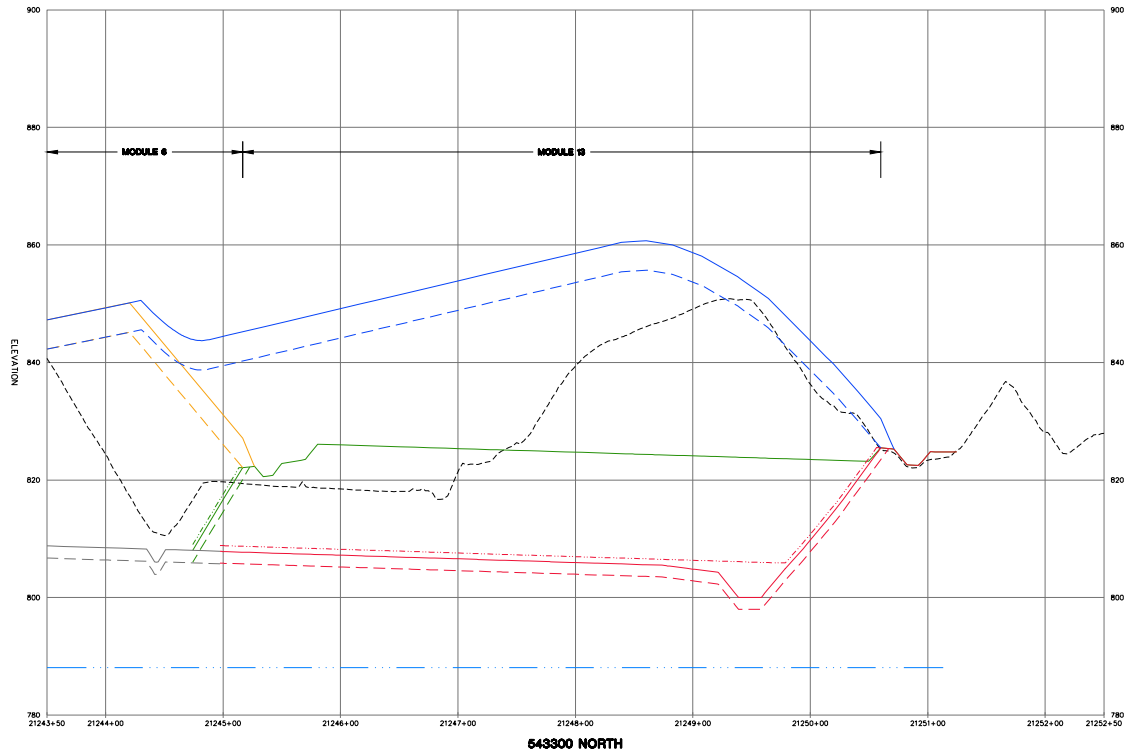
0 50
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 10'
 VERTICAL EXAGGERATION = 54

EG ENGINEERS 2300 DAWKINS AVENUE, SUITE 200 COLUMBIA, MISSOURI 65204 PHONE: (650) 251-2850	PROJECT NO. 232226210 DRAWING NO. 09/17/18 DATE 09/17/2023	PROJECT NAME AND LOCATION WASTE WATER TREATMENT PLANT FARGO, NORTH DAKOTA	SHEET NO. 14 OF 28
	CLIENT WASTE WATER TREATMENT PLANT FARGO, NORTH DAKOTA	ENGINEER PLAN OF OPERATION UPDATE COLUMBIA DRY ASH DISPOSAL FACILITY TOWN OF FARGO, MINNESOTA	CHECKED BY: [Signature] APPROVED BY: [Signature]



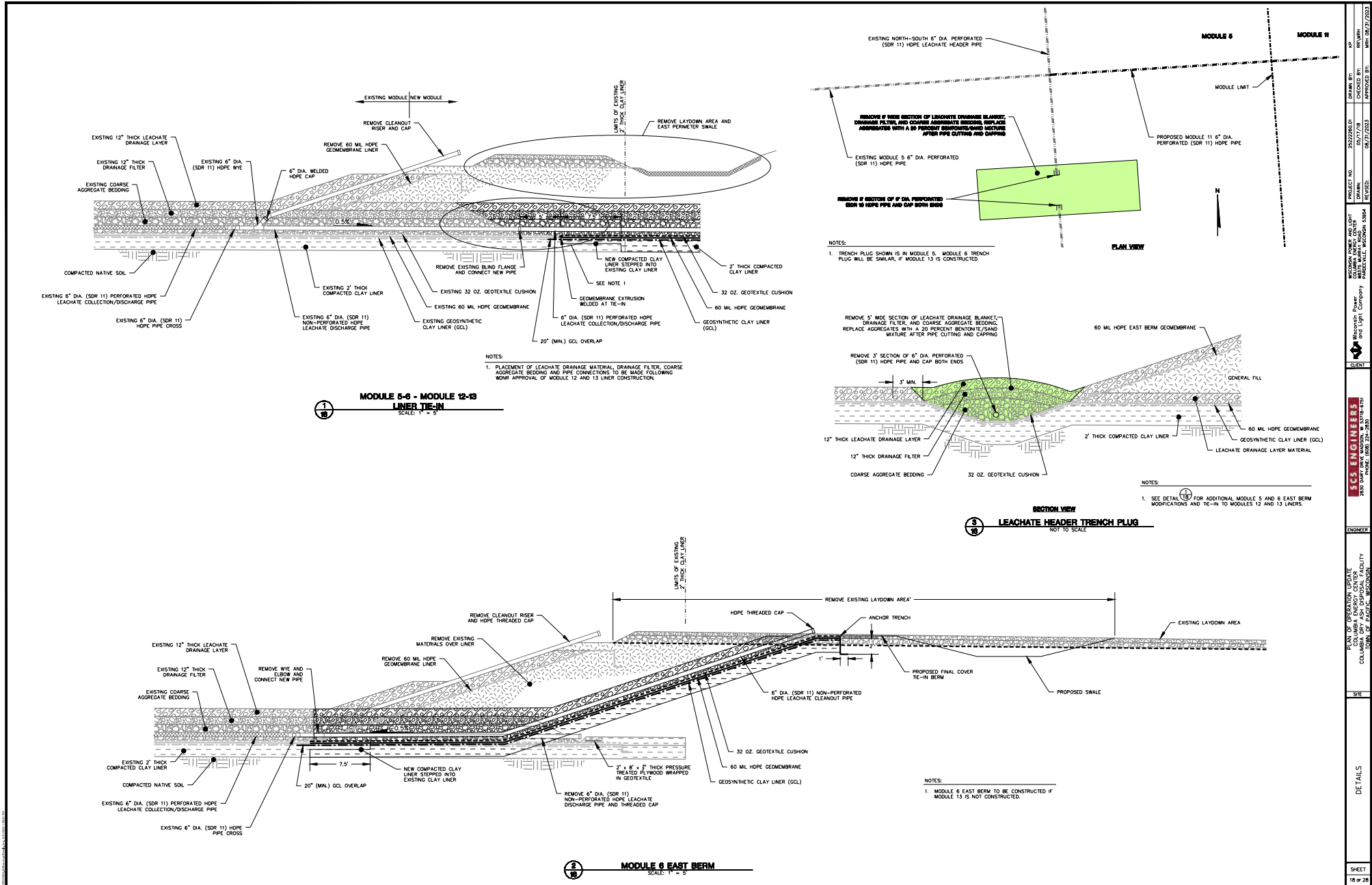
- LEGEND**
- EXISTING GRADE (06/06/2023)
 - DOCUMENTED SUBBASE GRADE
 - DOCUMENTED BASE GRADE
 - DOCUMENTED DRAINAGE LAYER
 - PROPOSED MODULE 12 WASTE GRADE
 - PROPOSED MODULE 12 AND 13 SUBBASE GRADE
 - PROPOSED MODULE 12 AND 13 BASE GRADE
 - PROPOSED MODULE 12 AND 13 DRAINAGE LAYER
 - PROPOSED MODULE 12 AND 13 WASTE GRADE
 - PROPOSED MODULE 12 AND 13 FINAL GRADE
 - HIGH WATER TABLE (OCTOBER 2018)

0 50
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'
VERTICAL EXAGGERATION = 5x



- LEGEND**
- EXISTING GRADE (06/06/2023)
 - DOCUMENTED SUBBASE GRADE
 - DOCUMENTED BASE GRADE
 - DOCUMENTED DRAINAGE LAYER
 - PROPOSED MODULE 12 SUBBASE GRADE
 - PROPOSED MODULE 12 BASE GRADE
 - PROPOSED MODULE 12 DRAINAGE LAYER
 - PROPOSED MODULE 12 WASTE GRADE
 - PROPOSED MODULE 12 FINAL GRADE
 - PROPOSED MODULE 12 AND 13 SUBBASE GRADE
 - PROPOSED MODULE 12 AND 13 BASE GRADE
 - PROPOSED MODULE 12 AND 13 DRAINAGE LAYER
 - PROPOSED MODULE 12 AND 13 WASTE GRADE
 - PROPOSED MODULE 12 AND 13 FINAL GRADE
 - HIGH WATER TABLE (OCTOBER 2018)

0 50
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 10'
 VERTICAL EXAGGERATION = 5x



NOTES:
1. PLACEMENT OF LEACHATE DRAINAGE MATERIAL, DRAINAGE FILTER, COARSE AGGREGATE BEDDING AND PIPE CONNECTIONS TO BE MADE FOLLOWING WORK APPROVAL OF MODULE 12 AND 13 LINER CONSTRUCTION.

NOTES:
1. TRENCH PLUG SHOWN IN MODULE 5, MODULE 6 TRENCH PLUG WILL BE SIMILAR, IF MODULE 13 IS CONSTRUCTED.

NOTES:
1. SEE DETAIL 110 FOR ADDITIONAL MODULE 5 AND 6 EAST BERM MODIFICATIONS AND TIE-IN TO MODULES 12 AND 13 LINERS.

NOTES:
1. MODULE 6 EAST BERM TO BE CONSTRUCTED IF MODULE 13 IS NOT CONSTRUCTED.

PROJECT NO. 232226207
DATE: 09/17/18
DRAWN BY: [REDACTED]
CHECKED BY: [REDACTED]
APPROVED BY: [REDACTED]

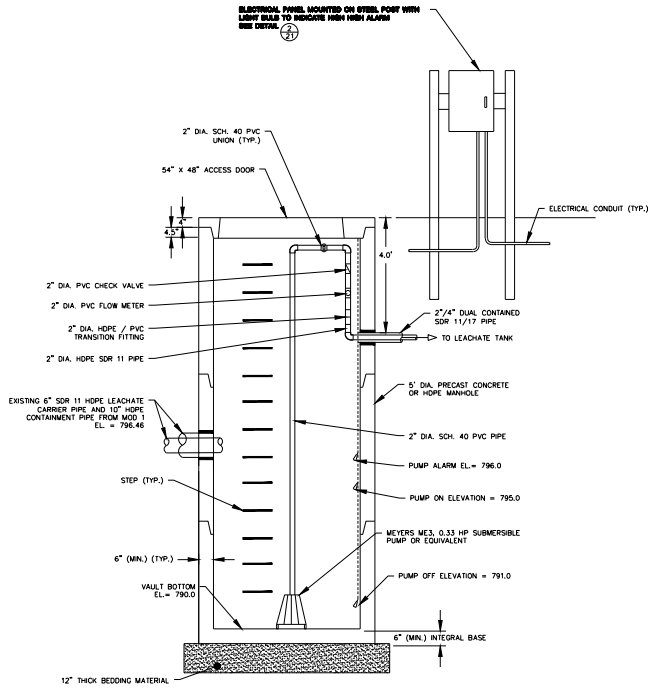
CLIENT: [REDACTED]

ENGINEER: [REDACTED]

DATE: 08/27/2023

PROJECT: [REDACTED]

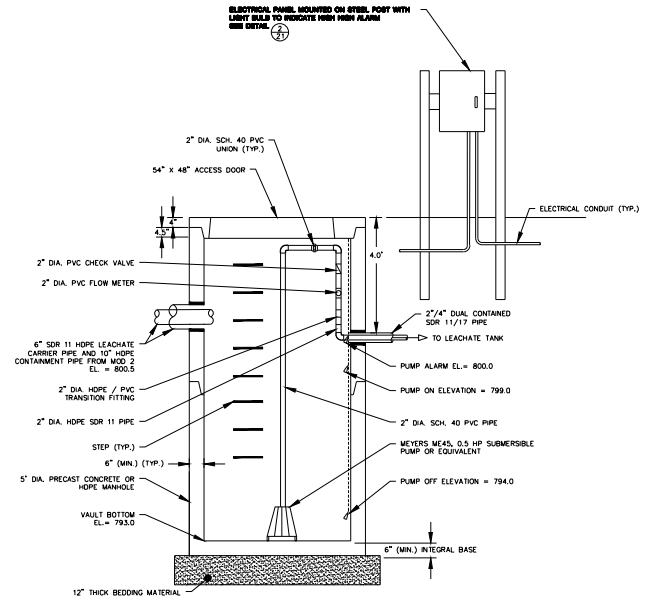
SCALE: 18 x 24



NOTES:

- MOD 1 LEACHATE SUMP TO BE INSTALL DURING FINAL DRY ASH DISPOSAL FACILITY (ADF) CLOSURE. LEACHATE WILL CONTINUE TO BE CONVEYED TO THE LEACHATE/SURFACE WATER POND UNTIL THE ADF IS CLOSED.

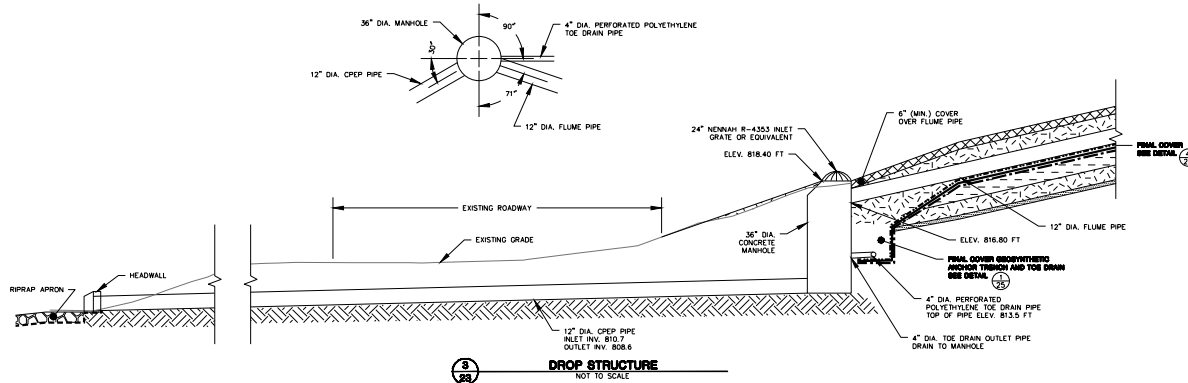
1 **MOD 1 LEACHATE SUMP**
NOT TO SCALE



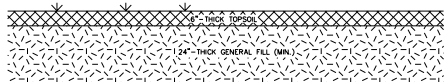
NOTES:

- MOD 2 LEACHATE SUMP TO BE INSTALL DURING FINAL DRY ASH DISPOSAL FACILITY (ADF) CLOSURE. LEACHATE WILL CONTINUE TO BE CONVEYED TO THE LEACHATE/SURFACE WATER POND UNTIL THE ADF IS CLOSED.

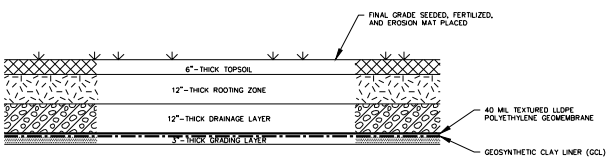
2 **MOD 2 LEACHATE SUMP**
NOT TO SCALE



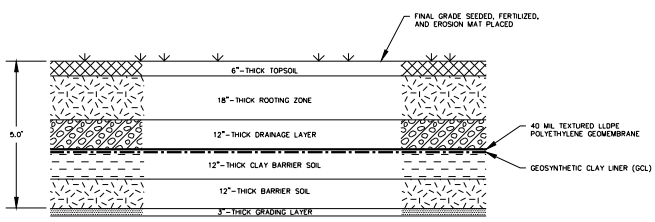
3 **DROP STRUCTURE**
NOT TO SCALE



1
INTERMEDIATE COVER
SCALE: 1" = 2'

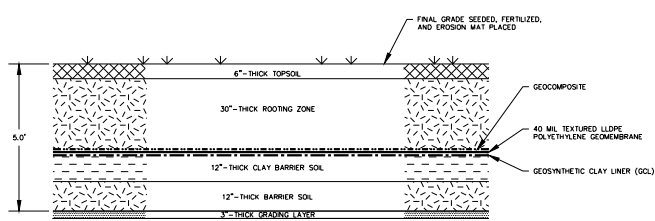


2
EXISTING FINAL COVER
SCALE: 1" = 2'



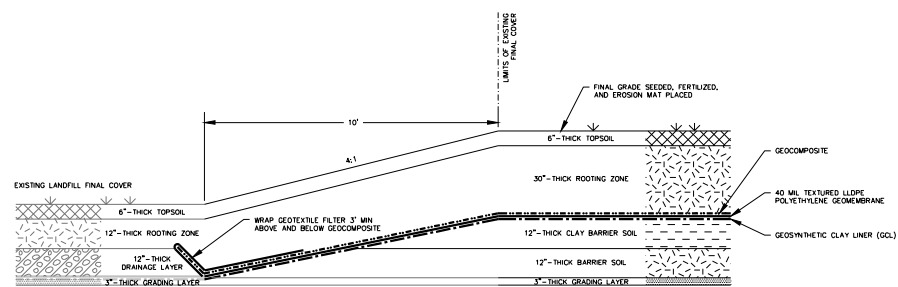
3
PROPOSED FINAL COVER (SAND DRAINAGE LAYER)
SCALE: 1" = 2'

NOTE: INSTALL CLASS I, TYPE B EROSION MAT ON ALL SLOPES UNLESS OTHERWISE NOTED



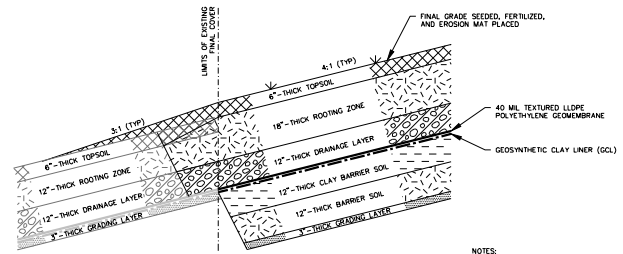
4
PROPOSED FINAL COVER (GEOCOMPOSITE DRAINAGE LAYER)
SCALE: 1" = 2'

NOTE: INSTALL CLASS I, TYPE B EROSION MAT ON ALL SLOPES UNLESS OTHERWISE NOTED



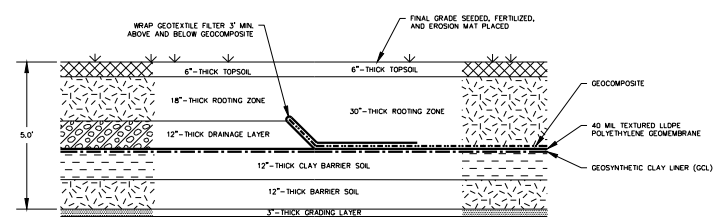
5
EXISTING TO PROPOSED FINAL COVER TRANSITION (PROPOSED GEOCOMPOSITE DRAINAGE LAYER)
SCALE: 1" = 2'

NOTES:
1. DETAIL VIEW IS SHOWN IN THE DIRECTION OF FINAL COVER SLOPE (TRANSITION PARALLEL TO FLOW).



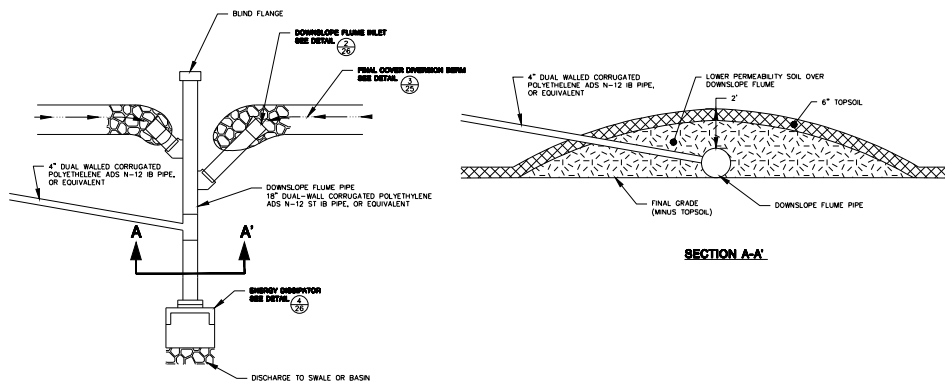
6
EXISTING TO PROPOSED FINAL COVER TRANSITION (PROPOSED SAND DRAINAGE LAYER)
SCALE: 1" = 2'

NOTES:
1. DETAIL VIEW IS SHOWN PERPENDICULAR TO FINAL COVER SLOPE (TRANSITION PERPENDICULAR TO FLOW).



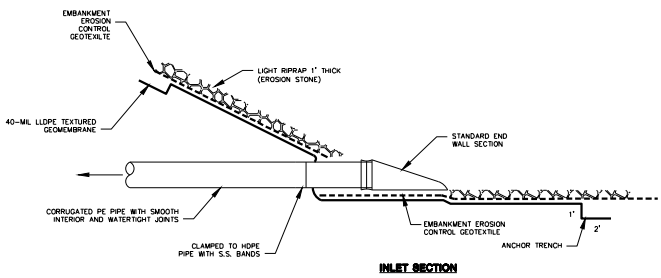
7
PROPOSED FINAL COVER TRANSITION (SAND TO GEOCOMPOSITE DRAINAGE LAYER)
SCALE: 1" = 2'

NOTES:
1. DETAIL VIEW IS SHOWN IN THE DIRECTION OF FINAL COVER SLOPE (TRANSITION PARALLEL TO FLOW).

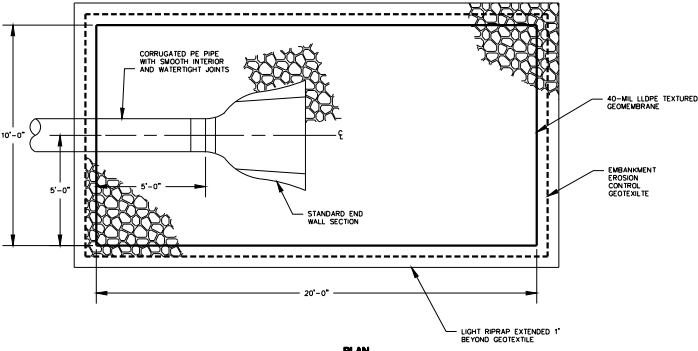


SECTION A-A'

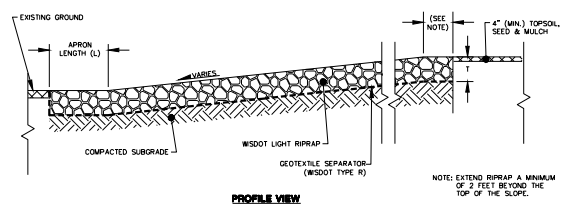
1
28
DOWNSLOPE FLUME
NOT TO SCALE



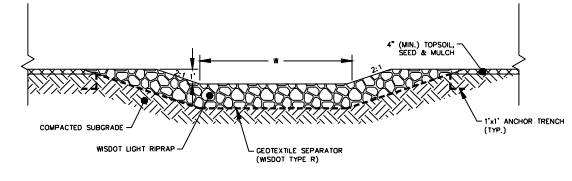
INLET SECTION



2
28
DOWNSLOPE FLUME INLET
NOT TO SCALE



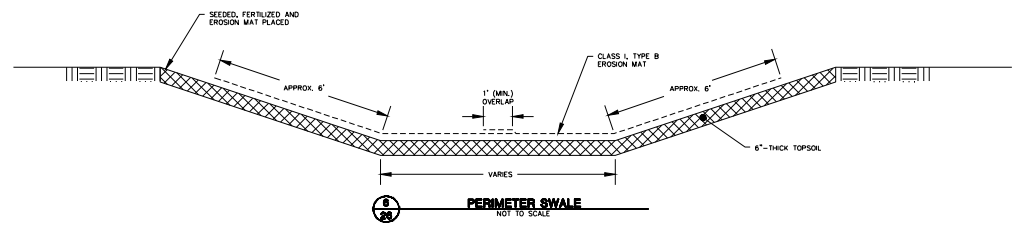
PROFILE VIEW



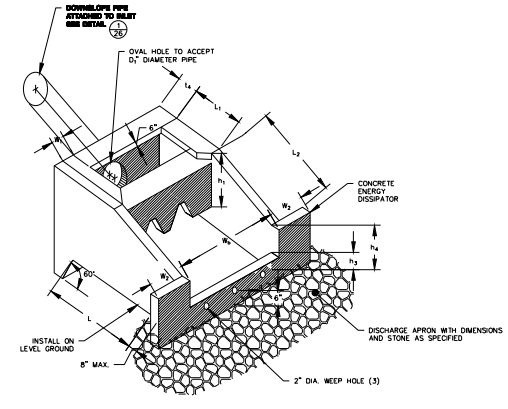
SECTION VIEW

MODULE 12 DESIGN				MODULE 12-13 DESIGN			
ROCK CHUTE (FT)	W (IN)	T (IN)	APRON LENGTH L (FT)	ROCK CHUTE (FT)	W (IN)	T (IN)	APRON LENGTH L (FT)
RC1	8	4	2	RC1	8	4	2
RC2	6	12	7	RC2	6	12	7
RC3	6	8	5	RC3	6	8	5
RC4	6	9	6	RC4	6	9	6

3
28
ROCK CHUTE
NOT TO SCALE



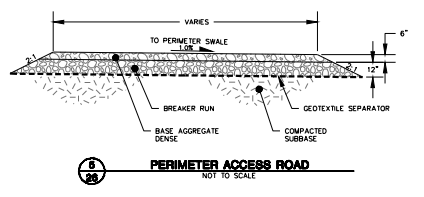
6
28
PERIMETER SWALE
NOT TO SCALE



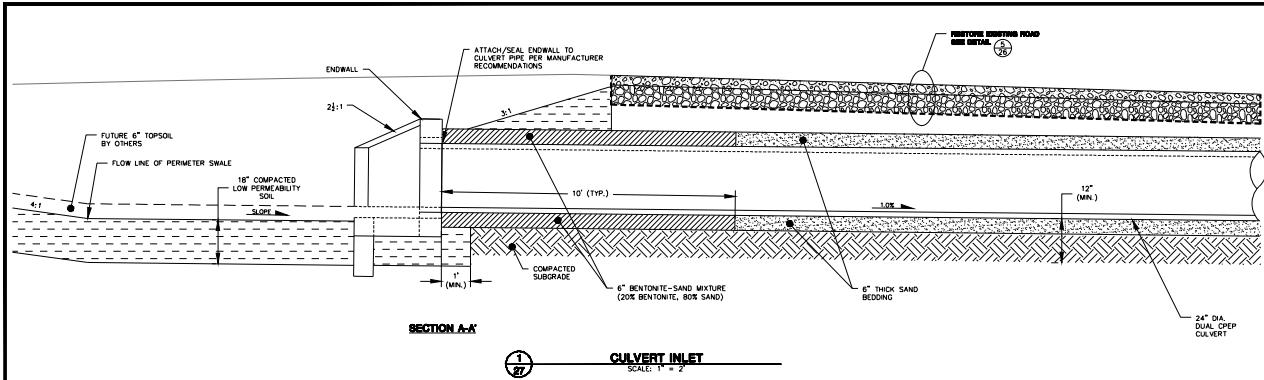
MODULE 12 DESIGN																
FLUME (IN)	D1 (IN)	WB	H1	H3	H4	L	L1	L2	W1	W2	W4	THICKNESS (IN)	STONE TYPE			
FLUME 1													SELECT CRUSHED MATERIAL TYPE R			
FLUME 2													SELECT CRUSHED MATERIAL TYPE R			
FLUME 6	18	6	4.58	1	2.5	8	3.42	4.58	0.5	1.67	0.5	6	6	10	12	SELECT CRUSHED MATERIAL TYPE R
FLUME 7																SELECT CRUSHED MATERIAL TYPE R
FLUME 8																SELECT CRUSHED MATERIAL TYPE R
FLUME 9																SELECT CRUSHED MATERIAL TYPE R

MODULE 12-13 DESIGN																
FLUME (IN)	D1 (IN)	WB	H1	H3	H4	L	L1	L2	W1	W2	W4	THICKNESS (IN)	STONE TYPE			
FLUME 1													SELECT CRUSHED MATERIAL TYPE R			
FLUME 2													SELECT CRUSHED MATERIAL TYPE R			
FLUME 6	18	6	4.58	1	2.5	8	3.42	4.58	0.5	1.67	0.5	6	6	10	12	SELECT CRUSHED MATERIAL TYPE R
FLUME 7																SELECT CRUSHED MATERIAL TYPE R
FLUME 9																SELECT CRUSHED MATERIAL TYPE R

4
28
OUTLET STRUCTURE WITH ENERGY DISSIPATOR
NOT TO SCALE



5
28
PERIMETER ACCESS ROAD
NOT TO SCALE



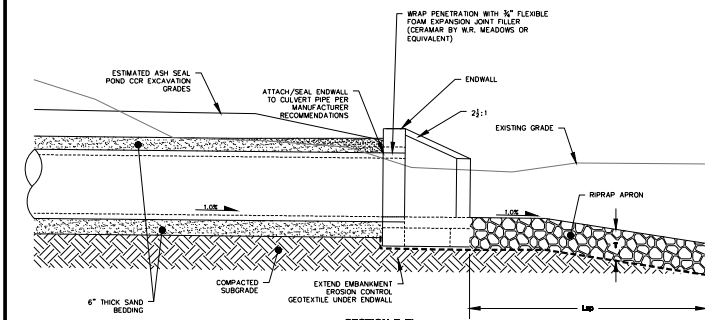
1 **CULVERT INLET**
SCALE: 1" = 2'

MODULE 12 DESIGN

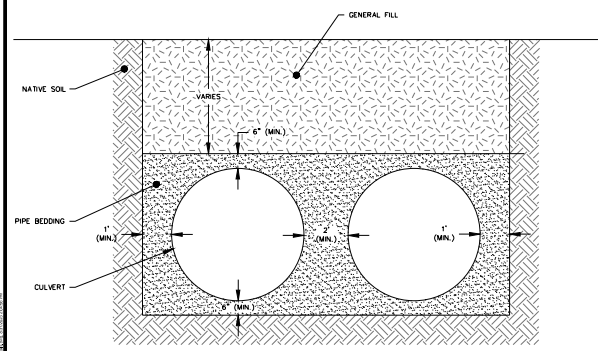
CULVERT	NUMBER OF BARRELS	DIAMETER (IN)	UPSTREAM INVERT (FT)	DOWNSTREAM INVERT (FT)
C1	1	24	815.70	814.55
C2a	2	18	817.60	814.00
C2b	2	12	818.00	817.60
C3	2	30	811.17	810.90
C4	2	30	809.86	809.60
C5	2	30	807.57	807.15
C6	2	24	805.40	804.76
C7	2	42	796.64	796.34
C8	1	12	810.70	808.60
C9	1	12	827.00	821.79
C10	1	24	807.54	806.81
C11	2	30	817.68	817.40

MODULE 12+13 DESIGN

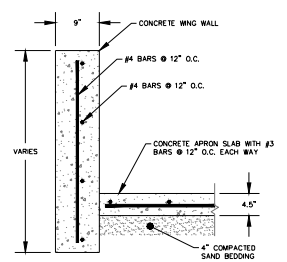
CULVERT	NUMBER OF BARRELS	DIAMETER (IN)	UPSTREAM INVERT (FT)	DOWNSTREAM INVERT (FT)
C1	1	24	815.70	814.55
C2	2	24	817.89	814.00
C3	2	30	811.17	810.90
C4	2	30	809.86	809.60
C5	2	30	807.57	807.15
C6	2	24	805.40	804.76
C7	2	42	796.64	796.34
C8	1	12	810.70	808.60
C9	1	24	807.54	806.81
C10	2	24	814.96	813.36



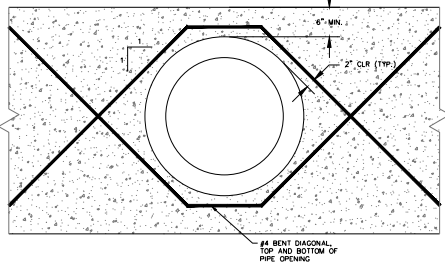
2 **CULVERT OUTLET**
SCALE: 1" = 2'



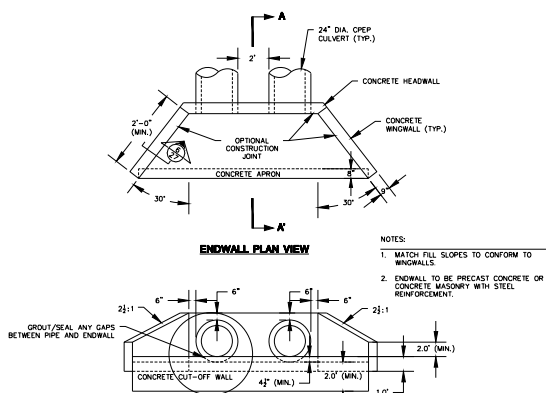
3 **CULVERT TRENCH**
NOT TO SCALE



4 **REINFORCEMENT AT APRON ENDWALL**
SCALE: 1" = 1'



5 **REINFORCEMENT AT ENDWALL OPENING**
SCALE: 1" = 1'



6 **CULVERT INLET ENDWALL**
NOT TO SCALE

MODULE 12 DESIGN

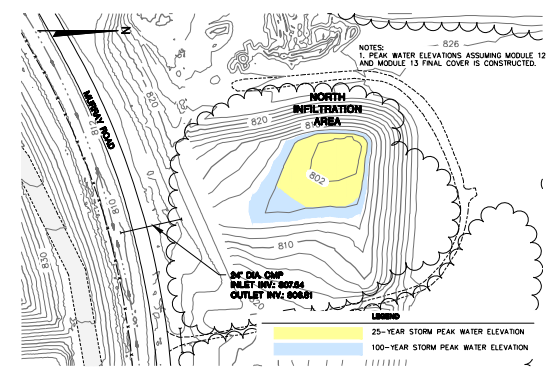
RIPRAP APRON	T (ft)	L _u (ft)	W _u (ft)	WHDOT RIPRAP CLASSIFICATION/ GEOTEXTILE SEPARATOR
CULVERT 2a	6	17	SEE NOTE 1	SELECT CRUSHED MATERIAL, TYPE R
CULVERT 2b	6	11	SEE NOTE 1	SELECT CRUSHED MATERIAL, TYPE R
CULVERT 3	20	26	SEE NOTE 1	LIGHT RIPRAP, TYPE R
CULVERT 4	20	27	SEE NOTE 1	LIGHT RIPRAP, TYPE R
CULVERT 5	20	28	SEE NOTE 1	LIGHT RIPRAP, TYPE R
CULVERT 6	20	25	SEE NOTE 1	LIGHT RIPRAP, TYPE R
CULVERT 8	6	10	SEE NOTE 1	SELECT CRUSHED MATERIAL, TYPE R
CULVERT 9	6	8	SEE NOTE 1	SELECT CRUSHED MATERIAL, TYPE R
CULVERT 11	20	26	SEE NOTE 1	LIGHT RIPRAP, TYPE R

NOTES:
1. FOR DISCHARGES TO CHANNELS, PLACE RIPRAP ALONG CHANNEL BOTTOM AND UP SIDE OF CHANNEL

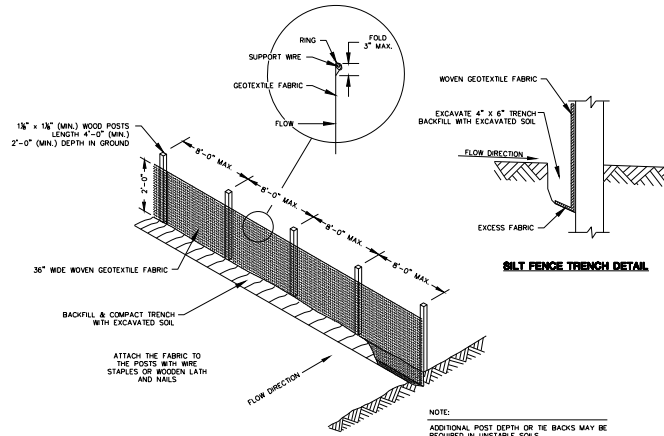
MODULE 12+13 DESIGN

RIPRAP APRON	T (ft)	L _u (ft)	W _u (ft)	WHDOT RIPRAP CLASSIFICATION/ GEOTEXTILE SEPARATOR
CULVERT 2	6	19	SEE NOTE 1	SELECT CRUSHED MATERIAL, TYPE R
CULVERT 3	20	26	SEE NOTE 1	LIGHT RIPRAP, TYPE R
CULVERT 4	20	27	SEE NOTE 1	LIGHT RIPRAP, TYPE R
CULVERT 5	20	28	SEE NOTE 1	LIGHT RIPRAP, TYPE R
CULVERT 8	6	10	SEE NOTE 1	SELECT CRUSHED MATERIAL, TYPE R
CULVERT 10	6	18	SEE NOTE 1	SELECT CRUSHED MATERIAL, TYPE R

NOTES:
1. FOR DISCHARGES TO CHANNELS, PLACE RIPRAP ALONG CHANNEL BOTTOM AND UP SIDE OF CHANNEL



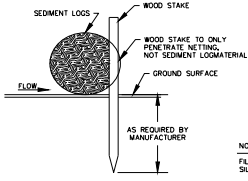
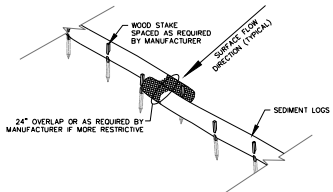
7 **NORTH INFILTRATION AREA**
SCALE: 1" = 100'



SILT FENCE TRENCH DETAIL

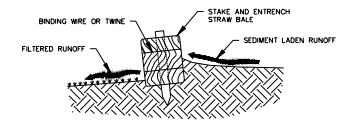
NOTE:
ADDITIONAL POST DEPTH OR THE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

1
28 **SILT FENCE**
NOT TO SCALE



NOTE:
FILTER SOCK MAY BE USED IN PLACE OF SILT FENCE WITH ENGINEER APPROVAL.

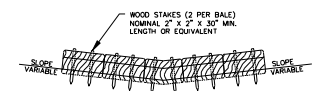
2
28 **FILTER SOCK**
NOT TO SCALE



SIDE VIEW

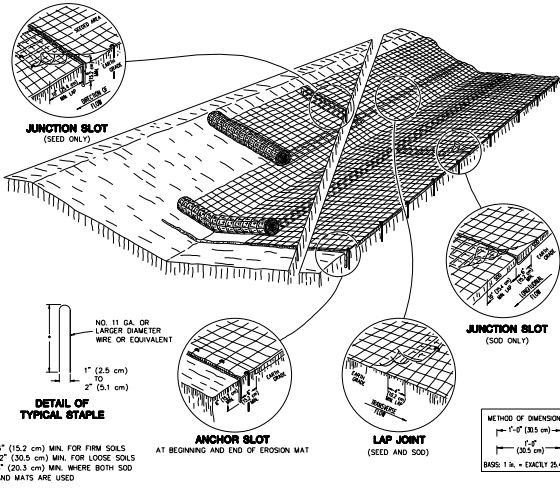


PLAN VIEW



FRONT ELEVATION

3
28 **STRAW BALE DITCH CHECK**
NOT TO SCALE



EROSION MAT NOTES:
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.
LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED CHANNELS.
JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET (1.219 m) APART.
EDGES OF THE EROSION MAT SHALL BE IMPRESSED IN THE SOIL.
EROSION MAT SHALL BE INSTALLED OVER SEEDING AND FERTILIZER.
JUNCTION OR ANCHOR SLOTS SHALL BE AT MAXIMUM INTERVALS OF 100 FEET (30.48 m) ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET (15.24 m) ON GRADES EXCEEDING 3 PERCENT.

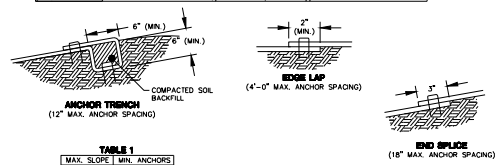
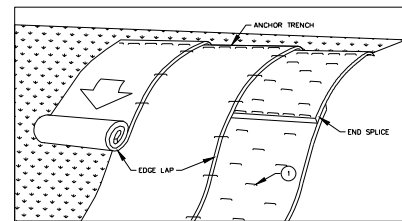


TABLE 1

MAX. SLOPE	MIN. ANCHORS
≤ 3:1	1.57/m ²
2:1	2.27/m ²
1:1	2.57/m ²

① SECURE BLANKET TO GROUND ACCORDING TO MANUFACTURER'S RECOMMENDED ANCHORING PATTERN AND MINIMUM SHOWN IN TABLE 1.

5
28 **NON-CHANNEL EROSION MAT**
NOT TO SCALE