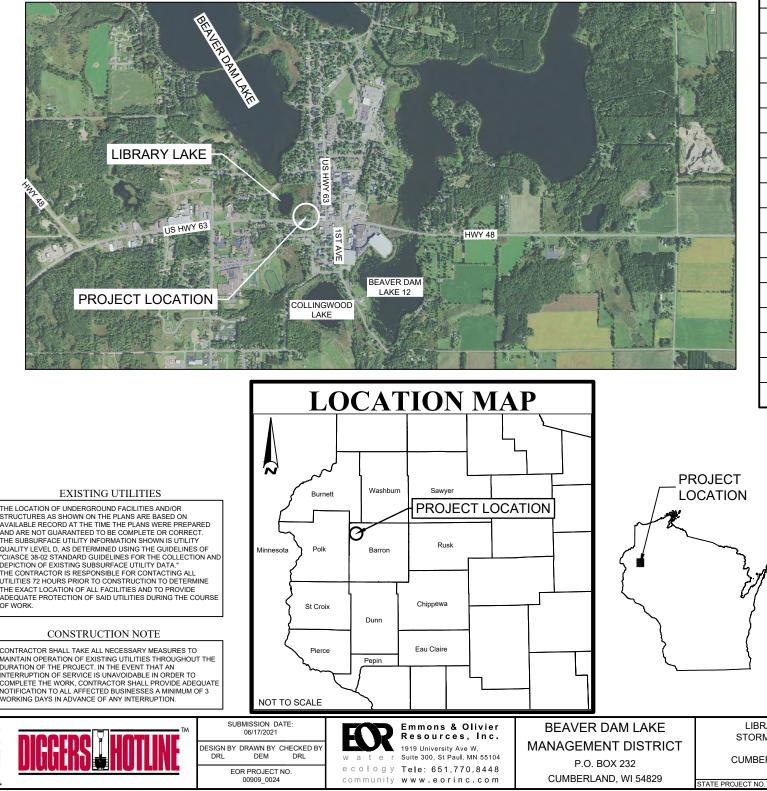


BEAVER DAM LAKE MANAGEMENT DISTRICT

LIBRARY LAKE SOUTHEAST STORMWATER IMPROVEMENTS PHASE 1

CUMBERLAND, BARRON COUNTY, WISCONSIN



TYPES OF CRANES OR HOISTING DEVICES.

DEM FINAL PLANS

05/21/2021 DEM PRE-EINAL PLANS

DATE

10/30/2020 DEM PRELIMINARY PLAN

BY REVISION

CONTACTING DIGGERS HOTLINE

/AY CALL (800) 542-2289.

SEE THE EXCAVATOR'S GUIDE TO DIGGERS HOTLINE FOR ADDITIONAL INFORMATION.

BY PHONE: DIGGERS HOTLINE IS AVAILABLE 24 HOURS A DAY, 7 DAYS A WEEK, 365 DAYS A YEAR BY CALLING THE THREE-DIGIT CODE 811 OR BY CALLING (800) 242-8511. TDD USERS

BY EMAIL: ON THE DIGGERS HOTLINE WEBSITE, WWW.DIGGERSHOTLINE.COM, YOU CAN

MAIL LOCATE REQUESTS TO THE CALL CENTER. TO ACCESS THE ONLINE EMAIL FORM, GO TO DIGGERS HOTLINE WEBSITE, WWW.DIGGERSHOTLINE.COM.

ow what's below

ALL ELEVATIONS ARE IN NAVD 88 - DATUM

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
01	TITLE SHEET
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03	OVERVIEW & SOIL BORING PLAN
04	DRAINAGE AREA & SWPPP SITE PLAN
05	EXISTING CONDITIONS
06	EROSION & SEDIMENT CONTROL PLAN
07	DEMOLITION & REMOVALS PLAN
08	GRADING & DRAINAGE PLAN OVERVIEW
09	GRADING & DRAINAGE PLAN
10	STORM SEWER PLAN OVERVIEW
11	STORM SEWER PLAN & PROFILE 1
12	STORM SEWER PLAN & PROFILE 2
13	RESTORATION PLAN
14	DETAIL SHEET 1
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17	DETAIL SHEET 4
18	DETAIL SHEET 5
19	DETAIL SHEET 6

* THIS PLAN SET CONTAINS 19 PLAN SHEETS

GOVERNING SPECIFICATIONS

THE DESIGN ADHERES TO NATURAL RESOURCE CONSERVATION SERVICE (NRSC) STANDARDS, AS WELL AS THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WIDNR).

THE 2021 EDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

P.O. BOX 23	M LAKE MANAGEMENT DISTRICT 2 ND, WI 54829
	DLIVIER RESOURCES, INC.
CUMBERLAI	ND, WI 54829

1919 UNIVERSITY AVE W - SUITE 300 ST. PAUL, MINNESOTA 55104 TELEPHONE: (651) 770-8448 FAX: (651) 770-2552 eorinc.com

ARY LAKE SOUTHEAST //WATER IMPROVEMENTS PHASE 1 RLAND, BARRON COUNTY, WISCONSIN	TITLE SHEET
	SHEET 01 OF 19 SHEETS
CITY PROJECT NO	

GENERAL SITE WORK NOTES	GRADING & EROSION CONTROL NOTES			LibranyLak	e Southeast Stormwater Im	provemen	ote
1. CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND	1. CONTRACTOR SHALL CONTACT 'DIGGERS HOTLINE' (1-800-242	-8511) AT LEAST THREE BUSINESS	6		g Standards	provemen	115
UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION BY CALLING DIGGERS HOTLINE 1-800-242-8511.	DAYS PRIOR TO EXCAVATION/ CONSTRUCTION, FOR UTILITY L	OCATIONS.			y EOR; October 30, 2020		
2. VERIFY HORIZONTAL LOCATION AND ELEVATION WHERE A CONNECTION TO EXISTING PAVEMENT, STRUCTURE, PIPE OR OTHER SITE FEATURE IS	 CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEY AND TOPOGRAPHIC FEATURES PRIOR TO START OF SITE GRA IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES 	DING. THE CONTRACTOR SHALL		1	Streambank or shoreline pr bioengineering or upland e		0
TO BE MADE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS. 3. REFERENCE TO WISDOT SPECIFICATIONS SHALL MEAN THE 2021	 ENGINEER SHALL PROVIDE HORIZONTAL AND VERTICAL CONT SHALL BE RESPONSIBLE FOR MAINTAINING ALL SAID HORIZON POINTS SET BY ENGINEER AND ANY ADDITIONAL CONSTRUCT 	ITAL AND VERTICAL CONTROL	3	2	Sediment Basins	USION CON	
SPECIFICATIONS FOR CONSTRUCTION.				4	Pervious Pavement		
4. CONTRACTOR SHALL ADHERE TO ALL OF THE REQUIREMENTS OF THE	 CONTRACTOR TO ADHERE TO ALL CITY, DNR, WISDOT AND WE IF ACQUISITION OF THE WPDES PERMIT IS NOT REQUIRED, INC. 		EN		Rain Gardens		
CITY AND WISDOT RIGHT-OF-WAY PERMITS.	MINIMIZE THE AREA DISTURBED BY GRADING AT ANY GIVEN T VEGETATION RESTORATION WITHIN THE TIME REQUIRED BY 1)E	6	Vegetation Planting		
GENERAL UTILITY NOTES	GRADING OF AN AREA AFTER FINAL GRADING OR STORM SEW			7	0 0		
1. CONTRACTOR SHALL CONTACT 'DIGGERS HOTLINE' (1-800-242-8511) AT LEAST THREE BUSINESS DAYS PRIOR TO EXCAVATION/CONSTRUCTION FOR UTILITY LOCATIONS.	5. ALL EXPOSED SOIL AREAS WITHIN 100 FEET OF A WATER OF T CONVEYANCE SYSTEM WHICH IS CONNECTED TO A WATER OI WITHIN 24 HOURS AFTER FINAL GRADING OR STORM SEWER (F THE STATE MUST BE STABILIZED		8 9 10	Wisconsin Department of T Specifications (Spec)	ransporta	ation 2021 Stand
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND INVERTS, SHOWN OR NOT SHOWN. ANY DISCREPANCY BETWEEN PLANS AND FIELD CONDITIONS SHALL BE	6. ALL CONSTRUCTION ENTRANCES SHALL BE SURFACED WITH WIDTH FROM ENTRANCE POINT TO 50 FEET INTO THE CONSTR			11			
REPORTED TO THE ENGINEER IMMEDIATELY.	7. INLET PROTECTION IS TO BE USED DURING CONSTRUCTION.	SEE DETAIL.				BASE BID	
3. ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CUMBERLAND SPECIFICATIONS AND BUILDING PERMIT	8. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND WITH CITY, COUNTY, AND STATE PERMITS.	MAINTAINED IN ACCORDANCE	PERMITS			ITEM NO.	
REQUIREMENTS.	9. CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY ERO	SION CONTROL MEASURES AS	***CONTRACTOR SHALL ADHERE TO AL		ALL	-	
4. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE APPROPRIATE SEWER, WATER AND PLUMBING PERMITS FROM THE CITY OF	DIRECTED BY THE ENGINEER INCIDENTAL TO THE CONTRACT OWNER.	WITH NO ADDITIONAL COST TO TH	IE PERMITS SECURED BY CONTRACTOR C 1. CITY OF CUMBERLAND, RIGHT-OF-WA			2	Grubbing Removing Concrete Paul
CUMBERLAND.	10.REMOVE ALL EROSION CONTROL MEASURES AFTER VEGETAT	TION IS ESTABLISHED, AS DIRECTE	D A. FOR SITE ACCESS.			4	Removing concrete Side
5. UTILITY TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698.78 OR AASHTO T-99) FROM THE PIPE	BY THE ENGINEER.		B. CONTRACTOR SHALL BE RESPONS			5	Removing Fence, d'Cha
ZONE TO WITHIN THREE FEET OF THE GROUND SURFACE AND 100%	11. THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT		TS RIGHT-OF-WAY PERMIT / EASEMEN C. CONTRACTOR SHALL PREPARE AN			· •	Removing Fence, 6' Cha
STANDARD PROCTOR IN THE UPPER THREE FEET.	AND PAVED AREAS, AS DIRECTED BY THE ENGINEER, INCIDEN ADDITIONAL COST TO THE OWNER.	ITAL TO THE CONTRACT WITH NO	AND OTHER PERMIT REQUIREMENT PERMIT.	TS IN ORDER TO SECU	JRE THE	7	Removing Storm Sevier,
6. FIELD ADJUST ALL CASTINGS TO MATCH FINAL GRADES.			D. ANY COST INCURRED FOR OBTAIN	ING THE PERMIT SHAL	LL BE	¥	Removing Storm Sewer,
7. CONNECTION TO THE EXISTING STORM SEWER REQUIRES INSPECTION BY	12.IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR TRUCK TO ALL CONSTRUCTION AREAS.	SHALL APPLY WATER FROM A TAN	INCIDENTAL TO TRAFFIC CONTROL				Sealing Pipes (Soil Tighs
THE CITY OF CUMBERLAND.	13.SWEEP ADJACENT STREETS AS DIRECTED BY THE ENGINEER.		2. WISCONSIN DOT PERMIT TO WORK O			ið	Excavation Common (F)
8. CONTRACTOR SHALL NOTIFY THE CITY OF CUMBERLAND 48 HOURS IN ADVANCE OF WORKING WITHIN THE EXISTING RIGHT OF WAY. CITY	14.INSPECT EROSION CONTROL DEVICES ONCE PER WEEK OR A	FTER EACH RAINFALL EVENT OF	A. FOR ACCESS TO STATE HIGHWAY SOIL AND OTHER MATERIALS TO &		AVATED	11	Apron Endwalls for Culv
INSPECTORS MUST OBSERVE ALL WORK COMPLETED WITHIN THE EXISTING RIGHT OF WAY INCLUDING REMOVAL OF EXISTING BITUMINOUS	0.50-INCHES OR GREATER AND AT LEAST DAILY DURING PROL REPAIR FAILED OR FAILING EROSION CONTROL DEVICES.	ONGED RAINFALL. IMMEDIATELY	B. CONTRACTOR SHALL BE RESPONS		A	12	Apron Endwalls for Culv
PAVEMENT, EXCAVATION OF TRENCHES, PLACEMENT OF UTILITY			RIGHT-OF-WAY PERMIT. C. CONTRACTOR SHALL PREPARE AN	ID SUBMIT ALL APPLIC	ATIONS	13	Riprap Medium
CONNECTIONS TO EXISTING LINES, BACKFILLING AND PLACEMENT OF BITUMINOUS PAVEMENT OR CONCRETE APRONS, SIDEWALKS, AND CURB	15. SEDIMENT REMOVAL - SEDIMENT DEPOSITS SHALL BE REMOV INCIDENTAL TO THE CONTRACT WITH NO ADDITIONAL COST TO		AND OTHER PERMIT REQUIREMEN			34	Storm Sewer Pipe Reinfo
& GUTTER.			PERMIT. D. ANY COST INCURRED FOR OBTAINI	ING THE PERMIT SHAL	L BE	15	Storm Sewer Pipe Reinfo
SITE REMOVAL NOTES	16. ANY SEDIMENT REMAINING IN PLACE AFTER THE EROSION CO REQUIRED SHALL BE GRADED TO CONFORM WITH THE EXISTI		INCIDENTAL TO TRAFFIC CONTROL			16	storm Sewer Pipe Reinfo
1. BITUMINOUS PAVEMENT REMOVALS ARE TO BE MADE TO A VERTICAL SAW	SEEDED WITH THE APPROPRIATE SEED MIX AS DIRECTED BY	THE ENGINEER.	3. WISCONSIN DNR WPDES PERMIT			i)	Storm Sewer Pipe Reinfo
CUT OR TO A NEAT MILLED EDGE IN ACCORDANCE WITH WISDOT SPECIFICATIONS.	17. SUITABLE GRADING MATERIAL SHALL CONSIST OF ALL SOIL EI EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OT STOCKPILE TOPSOIL AND GRANULAR FILL AT LOCATIONS DIRE	THER UNSTABLE MATERIAL.	A. FOR CONSTRUCTION SITE STORM B. OWNER SHALL SUBMIT FOR THE PE			18	Manhole Covers Type J Cesting Assembly, Desig
2. CONCRETE PAVEMENT, SIDEWALK, CURB & GUTTER AND OTHER POURED CONCRETE ITEMS ARE TO BE REMOVED TO AN EXISTING EXPANSION OR	18.EXISTING GRANULAR MATERIALS SHALL BE SEGREGATED AND		4. WISCONSIN DNR WETLAND IMPACTS			20	Manholes 4-PT Diamete
CONTRACTION JOINT. SAW CUT AS NECESSARY FOR A NEAT EDGE OF REMOVAL.	19. CONTRACTOR SHALL STRIP. STOCKPILE AND RE-SPREAD EXIS		A. OWNER HAS SUBMITTED FOR THIS	PERMIT.		21	Manholes 5-FT Diamete
	A UNIFORM THICKNESS, MINIMUM 4", ON ALL DISTURBED ARE/		5. ARMY CORPS OF ENGINEERS WETLA	ND IMPACTS		22	Manholes 1-FT Diamete
3. SALVAGED SEWER CASTINGS AND MANHOLE SECTIONS SHALL BE CLEANED AND INSPECTED FOR DAMAGE PRIOR TO REINSTALLATION.	20.SUBGRADE EXCAVATION SHALL BE BACKFILLED IMMEDIATELY	AFTER EXCAVATION TO HELP				27	Mobilization
4. ALL REMOVAL ITEMS SHALL BECOME THE PROPERTY OF THE	OFFSET ANY STABILITY PROBLEMS DUE TO WATER SEEPAGE NEW SURFACE MATERIAL ADJACENT TO EXISTING PAVEMENT	OR STEEP SLOPES. WHEN PLACIN , THE EXCAVATION SHALL BE	A. OWNER HAS SUBMITTED FOR THIS	PERMIT.		24 25	Mulching, Method C, Cr Silt Perce
CONTRACTOR UNLESS SPECIFIED OTHERWISE AND SHALL BE DISPOSED OF OFF-SITE IN A MANNER MEETING ALL APPLICABLE REGULATIONS.	BACKFILLED PROMPTLY TO AVOID UNDERMINING OF THE EXIS	STING PAVEMENT.				26	NÁRPI
	21.GRADES SHOWN ARE FINISHED GRADES, CONTRACTOR SHAL ELEVATIONS, SUBGRADE ELEVATIONS SHALL BE INSPECTED A					27	miet Protection Type D
STORM SEWER NOTES	PLACEMENT OF FINISH MATERIALS.					24	Temporary bitch Check
1. STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH WISDOT	- 22.FINAL GRADING TOLERANCES ARE ±0.1 FEET OF PLAN GRADE	s				29	Trecking Pads
SPECIFICATIONS.						30	Seeding Nexture No. 40
2. STORM SEWER SHALL BE PRECAST REINFORCED CONCRETE. CASTING SHALL BE AS SPECIFIED ON THE PLANS OR APPROVED EQUAL.	23.ALL EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, AND OTHER UNSTABLE MATERIALS SHALL BECOME TH)R			31	Seeding Nume Crop (d.s
	UNLESS SPECIFIED OTHERWISE AND SHALL BE DISPOSED OF						
 MANHOLES SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH WISDOT SPECIFICATIONS. MANHOLES SHALL HAVE A MINIMUM OF 2 						ADD ALTERN	Traffic Centrel
ADJUSTMENT RINGS AND MORTAR AND A MAXIMUM OF 12" OF	24.CONTRACTOR IS RESPONSIBLE FOR GRADING AND SLOPING T PROVIDE SMOOTH & UNIFORM SLOPES, WHICH PROVIDE POSI		то			ALTERN	29105
ADJUSTMENT RINGS AND MORTAR.	PONDING IN LOWER AREAS. CONTACT ENGINEER IF FIELD AD						Apron Endwalls for Curr
4. PIPE LENGTHS ON THE PLAN INCLUDE THE APRON SECTION.	ARE REQUIRED.					,	Water Main Gate Valve
5. STORM SEWER PIPE JOINTS SHALL BE TIED AS SPECIFIED ON THE PLANS.						3	Storm Sewer Pipe PvC 1
6. THE CONTRACTOR WILL LOCATE THE MANHOLE STRUCTURE AS	PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT AND 95 BELOW THE UPPER THREE FEET OF SUBGRADE. OUTSIDE OF					ADD ALTERN	NATE 2
NECESSARY FROM REFERENCE POINTS. PIPE ALIGNMENTS ARE STAKED	EMBANKMENTS TO 95% STANDARD PROCTOR DENSITY.					i i	Baffle (Momentum Pres
TO CENTER OF CASTING - CONTRACTOR WILL ADJUST THE ALIGNMENT TO FIT THE ACTUAL STRUCTURES INSTALLED.	RESTORATION NOTES					2	daffie (Momentum Pres
						3	Beffie (Momentum Pres
6	1. TURF RESTORATION IS SEEDING IN ACCORDANCE WITH THE F						
5	811	SUBMISSION DATE: 06/17/2021	ECCO Emmons & Olivier Resources, Inc.	BEAVER D	DAM LAKE		LIBRAF STORMV
4 3 06/17/2021 DEM FINAL PLANS		DESIGN BY DRAWN BY CHECKED BY	1919 University Ave W,	MANAGEME	NT DISTRICT		
2 05/21/2021 DEM PRE-FINAL PLANS		DRL DEM DRL	w a t e r Suite 300, St Paul, MN 55104	P.O. B0	OX 232		CUMBERL
Nik Charles Ch	ow what's below. Call before you dig.	EOR PROJECT NO. 00909 0024	ecology Tele: 651.770.8448 community www.eorinc.com	CUMBERLAN	ND, WI 54829	0717-	
NO DATE BY REVISION	our service you urg.		,		,	SIATEP	ROJECT NO

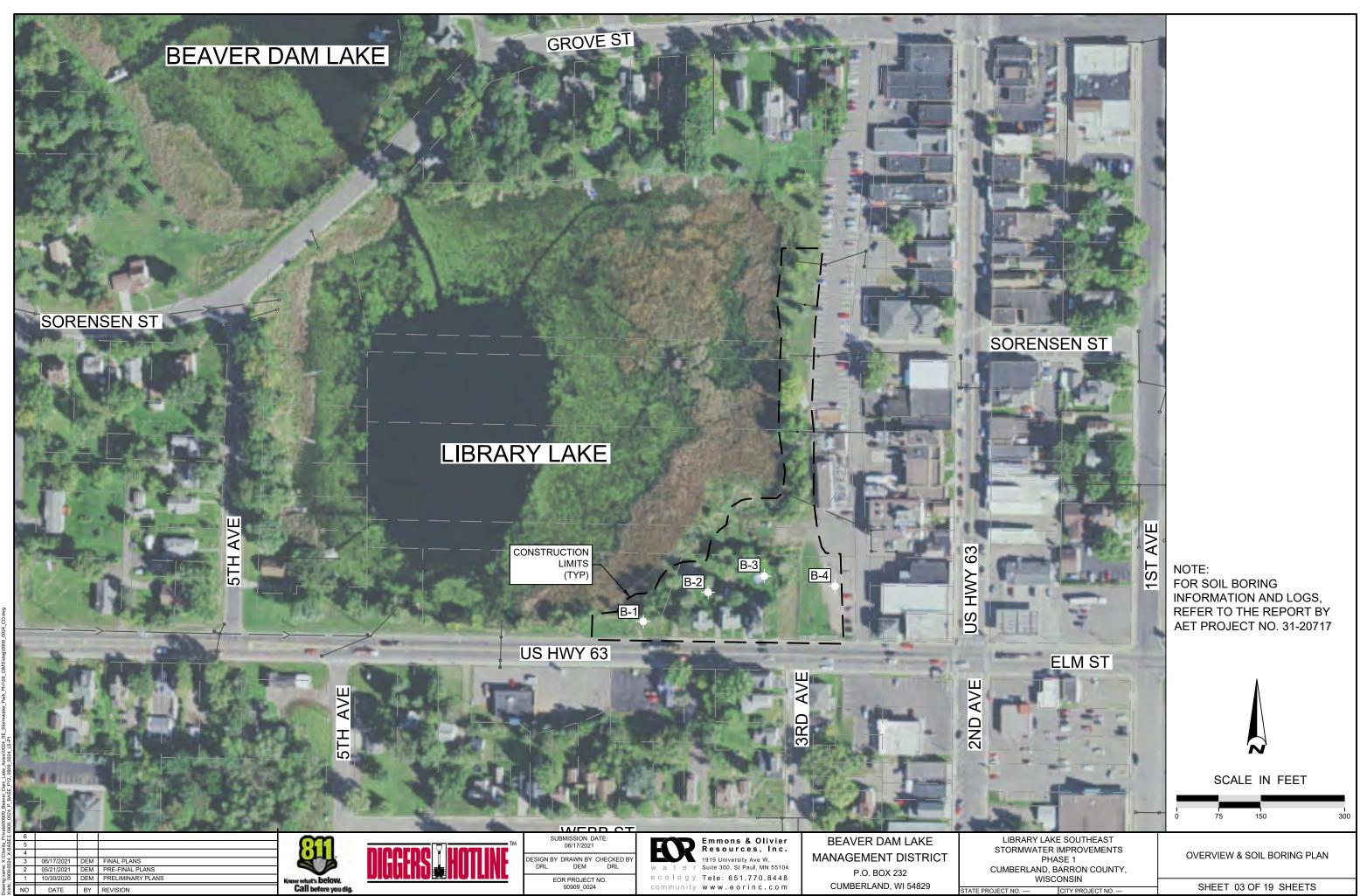
ation, soil	NRCS Technical Guide Streambank and Shoreline Protection Standard 580 (August, 2018)	580
	NRCS Technical Guide Shoreland Habitat Standard 643A (July, 2001)	643A
	Wisconsin DNR Technical Standard 1001, Wet Detention Basin (October 2007)	1001
	Wisconsin DNR Technical Standard 1008, Permable Pavement (February, 2016)	1008
	Wisconsin DNR Technical Standard 1009, Rain Garden (September, 2018)	1009
	NRCS Technical Guide Tree / Shrub Establishment Standard 612 (January, 2018)	612
	Part 2 - Earthwork	
	Part 3 -Bases and Subbases	
andard	Part 4 - Pavements	
	Part 5 - Structures	
	Part 6 - Incidental Construction	
-		

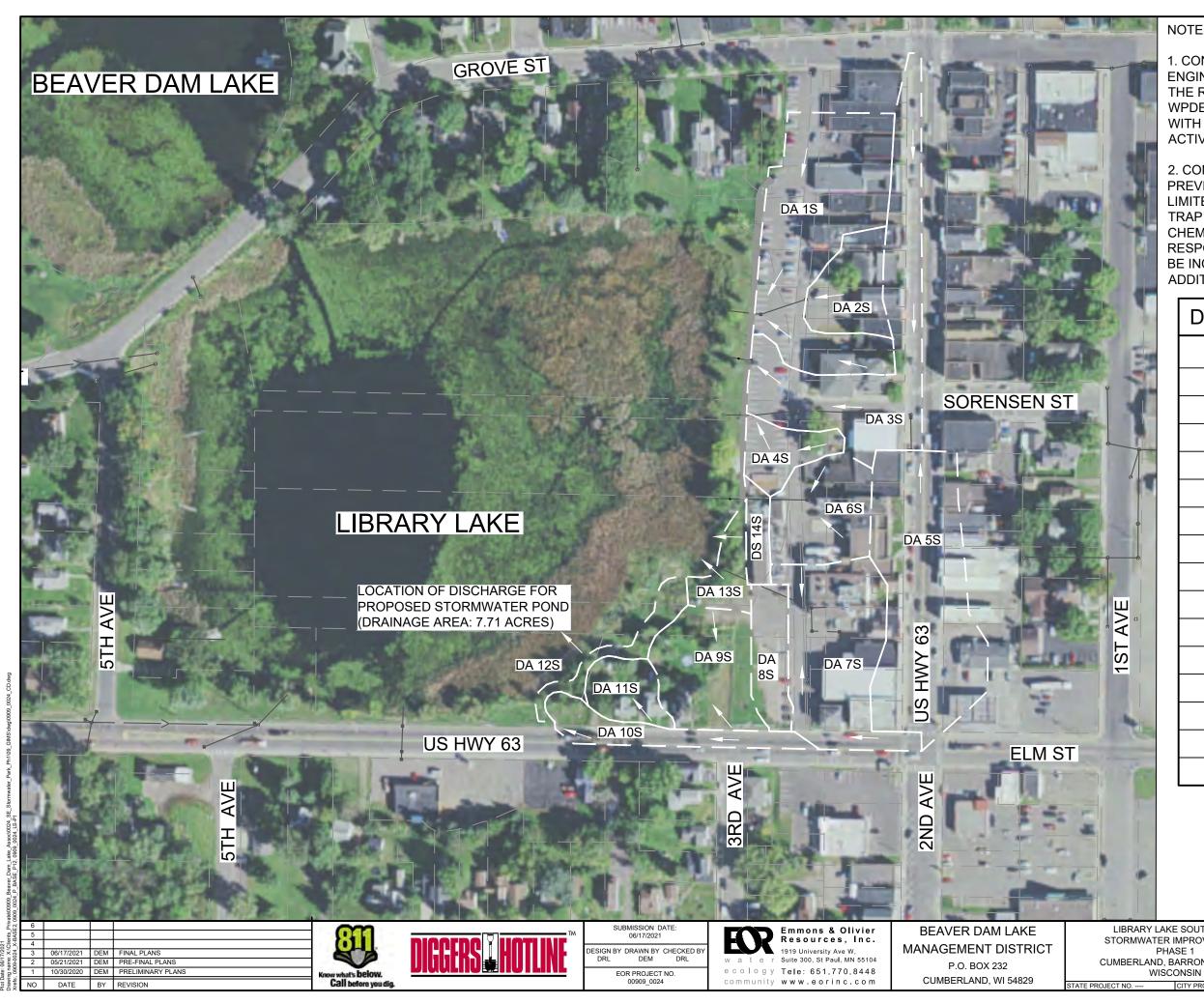
KON	WISDOT REFERENCE	UNIT	QUANTIT
	201.0115	ACRE	0.40
	201.0215	ACRE	0.40
Payement	204.0100	av	330
Sdewalk	204.0188	5Y	
nain Unk	204.0170	v	294
Ihain Uhk	204.0170	v	58
ler, 15°	204.0245	v	45
ver, 18'	204.0245	u	10
gts Buildhead)	204.0280	EACH	
(8)	205.0100	¢v	1700
Lulvert Fipe 31-Inch	520.1021	EACH	i
ulvert Pipe 24-inch (w/Feinforced Concrete Pooting)	520.1024	EACH	i.
	605.0200	¢γ	40
Inforced Concrete Class IV 15-Inch	608.0415	v	48
inforced concrete class to 18-inch	608.0418	v	503
nforced Concrete Class W.22-Inch	608.0421	v	275
nforced Concrete Class M 24-Inch	608.0424	v	57
a la	611.0530	EACH	6
sign Pond Skimmer Plate Style, Center Hinged, Heavy Duty, Haale PSSQ-72H	611.0600	EACH	1
ter	611,2004	EACH	
ster	611,2005	EACH	i
mer (No Top Sab - Por Pond Cutter contrel Structure)	611,2009	EACH	1
	619,1000	EACH	i
Erimping (2 tons of mulch per acra)	627.02	SY	9950
	#28.1904	v	1830
	628.20	sy	2225
D	528.70	EACH	
cks (12" Curlex Sediment Logs or Approved Equal)	628,7501	u	390
	628.7560	EACH	i
40 (2 pounds per Looo square feet)	630,0140	1.0	180
0.80 pounds per 1000 square feet)	630,0400	1.6	80
	\$43,5000	EACH	1
uivert Pipe aluminum 15-inch	525.0315	EACH	2
ve and valve Box, 16-inch (Ductlie Pon Resilient)	SPECIAL	EACH	2
E 16-inch (0900)	SPECIAL	v	40
reserver, thergy Dissipator, D15)	SPRCIAL	EACH	3
reserver, Energy Skimmer, 515)	SPECIAL	EACH	2
Hasarver, Energy Skimmer, 521)	5420141	EACH	1

PHA	ASE 1
RLAND, E	ARRON COUNTY,
WISC	ONSIN
	CITY PROJECT NO

NOTES & ESTIMATED QUANTITIES

SHEET 02 OF 19 SHEETS



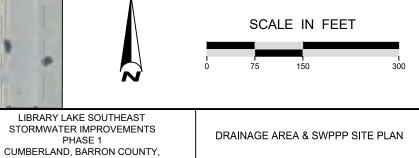


NOTES:

1. CONTRACTOR SHALL WORK WITH THE ENGINEER TO MODIFY THIS SITE PLAN TO FULFILL THE REQUIREMENTS OF THE WISCONSIN DNR WPDES PERMIT FOR STORMWATER ASSOCIATED WITH LAND DISTURBING CONSTRUCTION ACTIVITY.

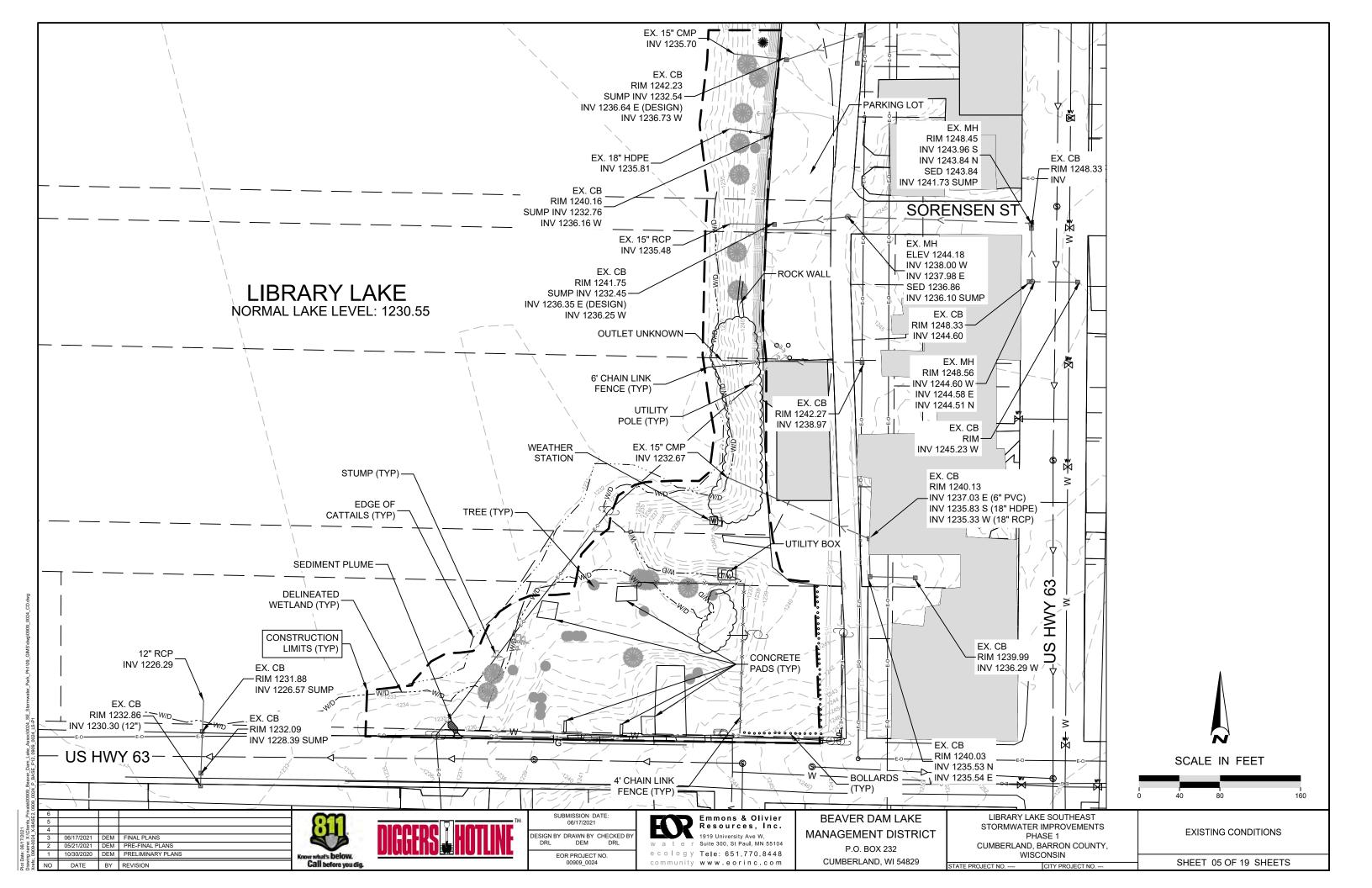
2. CONTRACTOR SHALL IMPLEMENT POLLUTION PREVENTION MEASURES INCLUDING BUT NOT LIMITED TO: TEMPORARY SEDIMENTATION BASIN / TRAP & OUTLET DEVICE; STORAGE FACILITY FOR CHEMICALS, CEMENT, ETC.; SPILL PREVENTION & RESPONSE PROCEDURES. THESE ITEMS SHALL BE INCIDENTAL TO THE CONTRACT WITH NO ADDITIONAL COST TO THE OWNER,

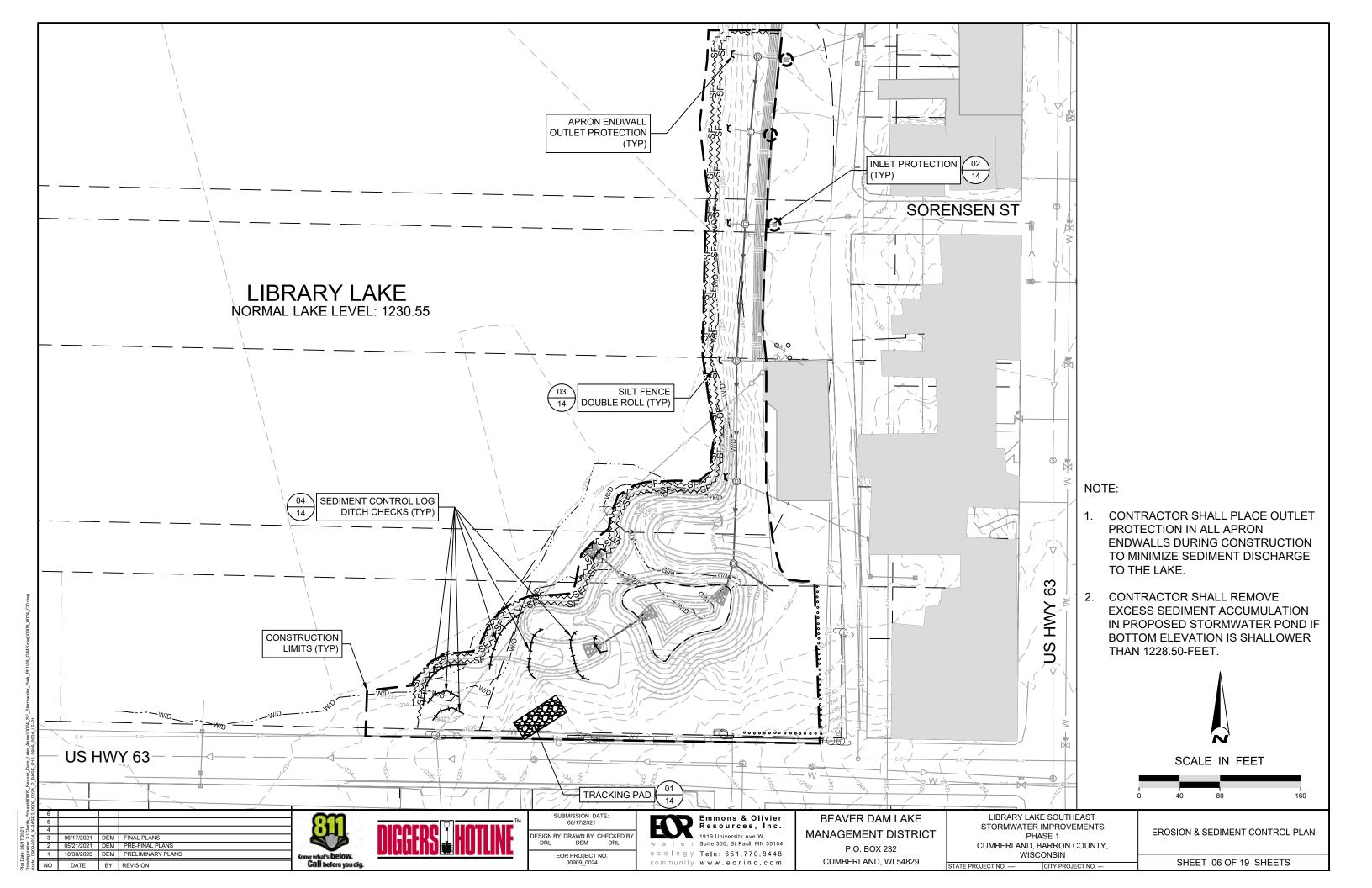
DRAINAGE AREA SUMMARY			
NAME	AREA (SQ-FT)		
1S	64,634		
2S	17,625		
3S	58,113		
4S	11,851		
5S	68,533		
6S	25,562		
7S	46,438		
8S	13,760		
9S	29,210		
10S	15,591		
11S	11,802		
12S	9,471		
13S	9,513		
14S	6,105		
TOTAL	378,208		

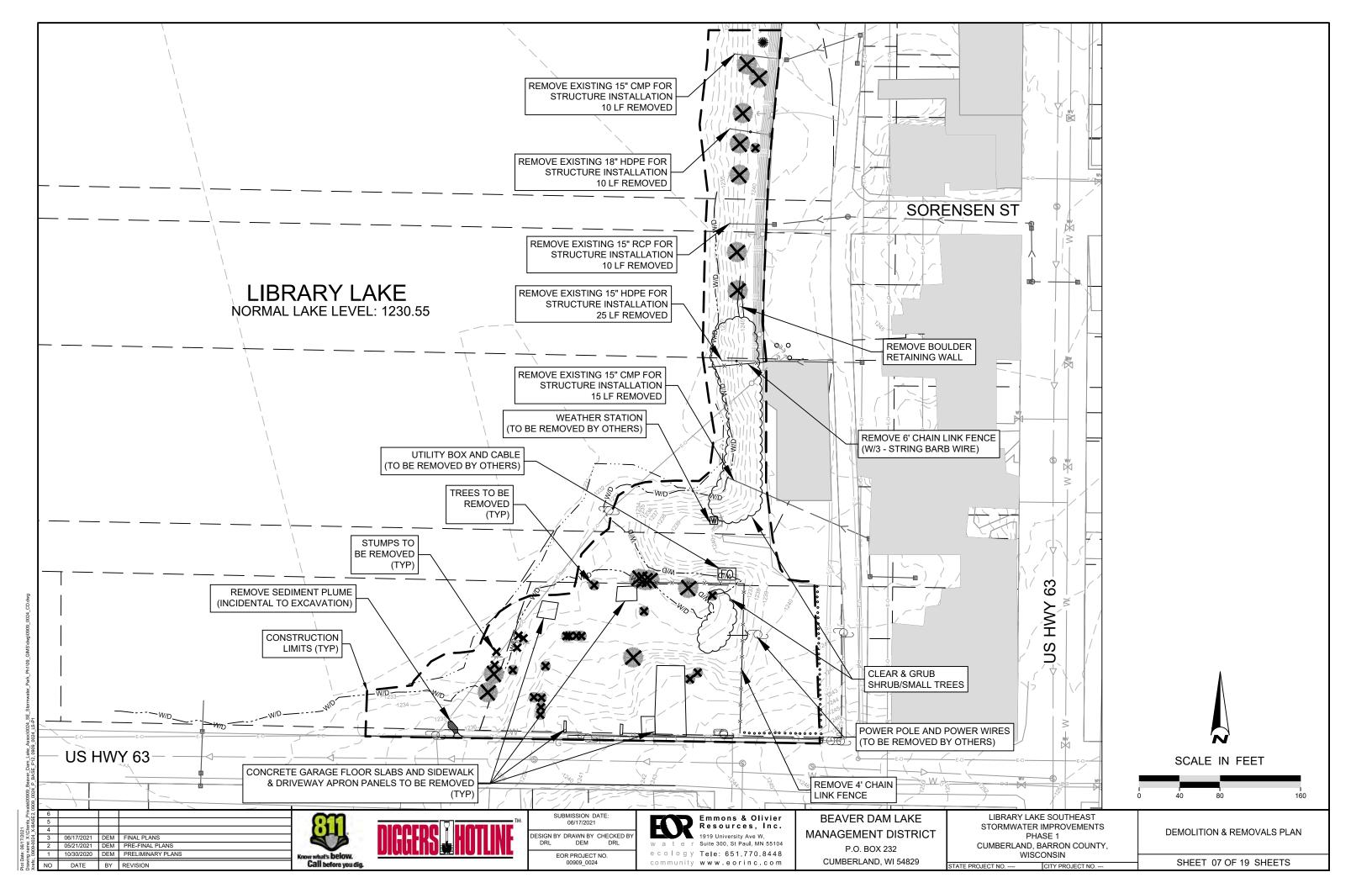


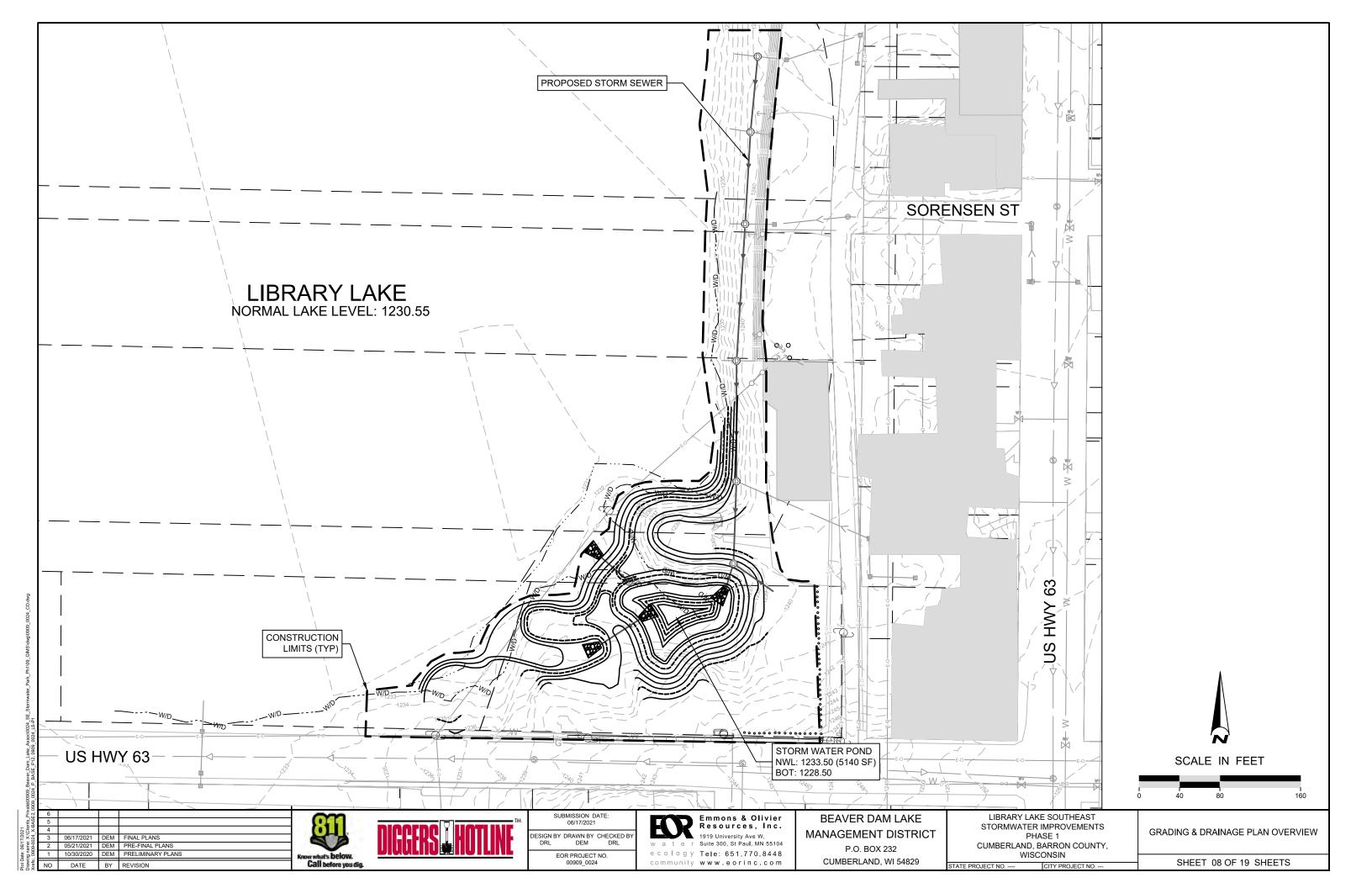
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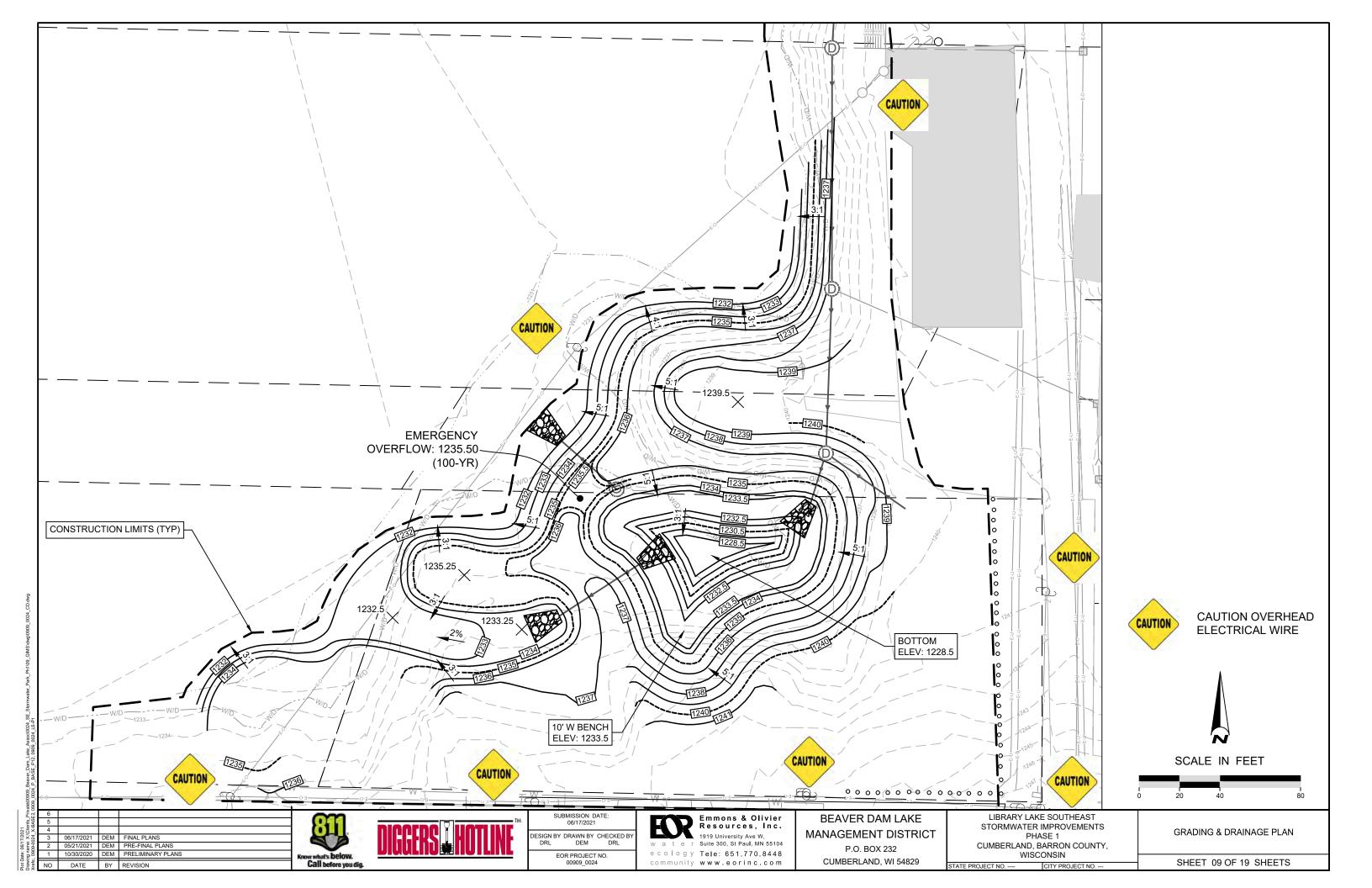
SHEET 04 OF 19 SHEETS

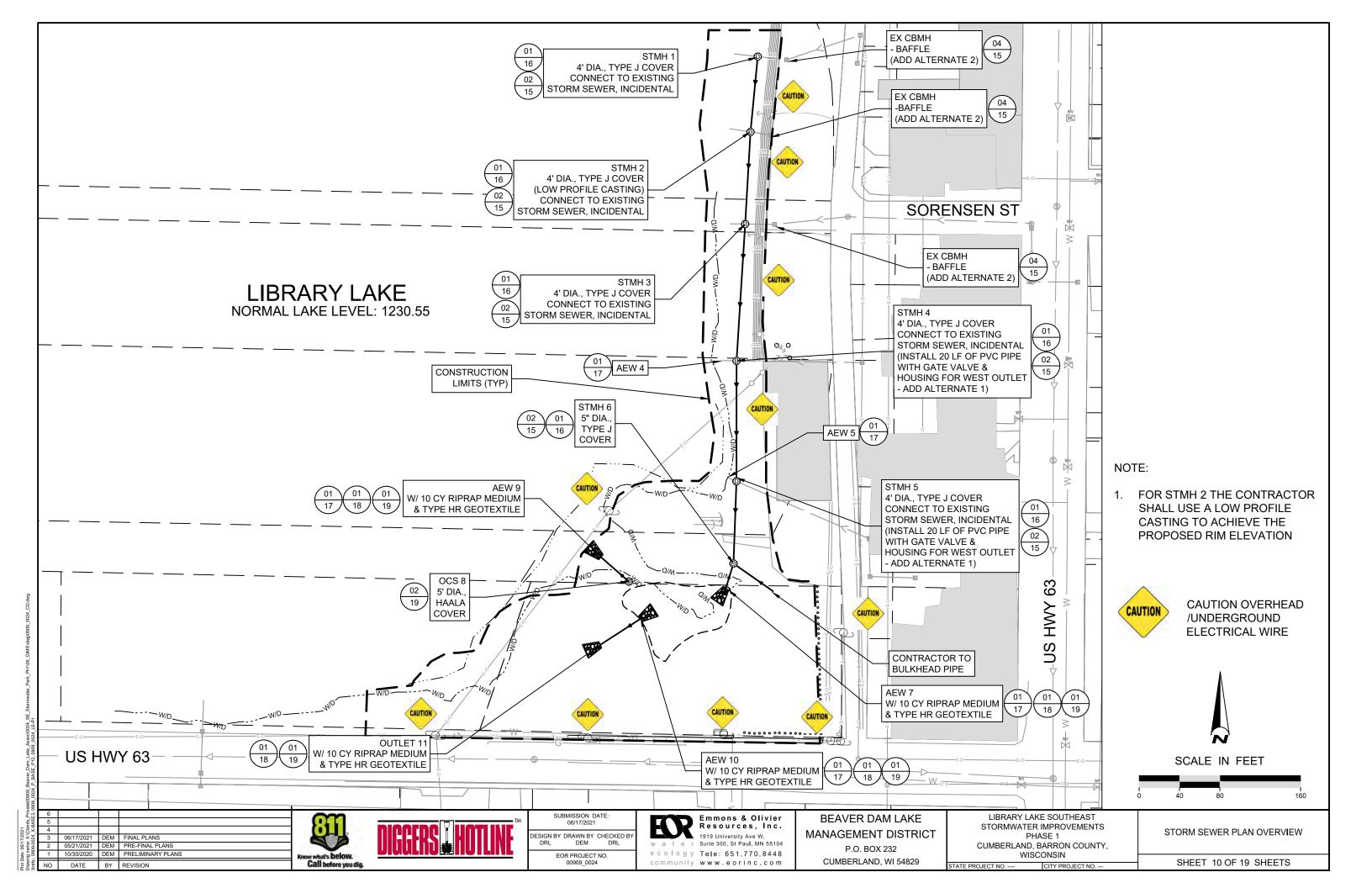


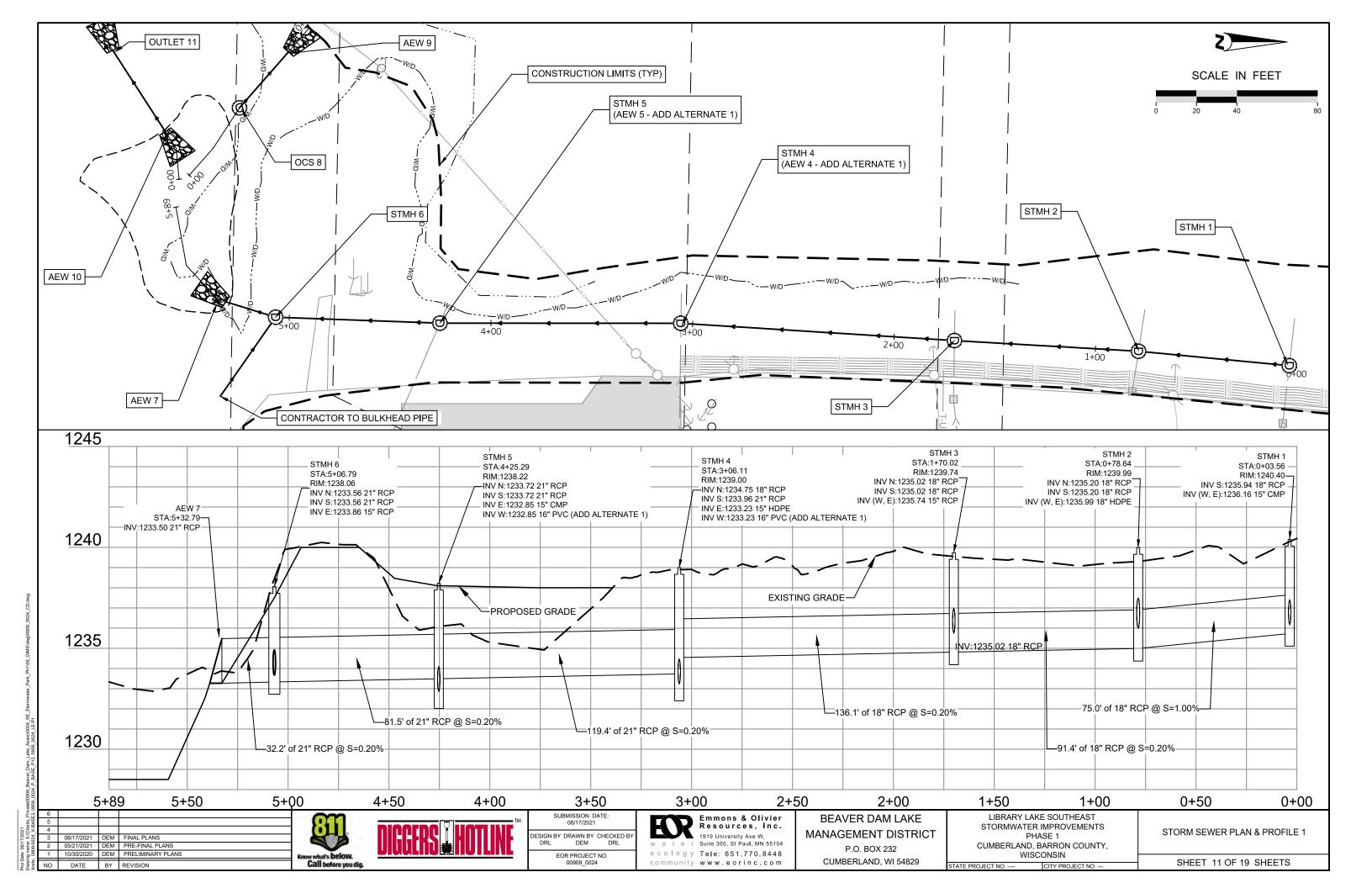


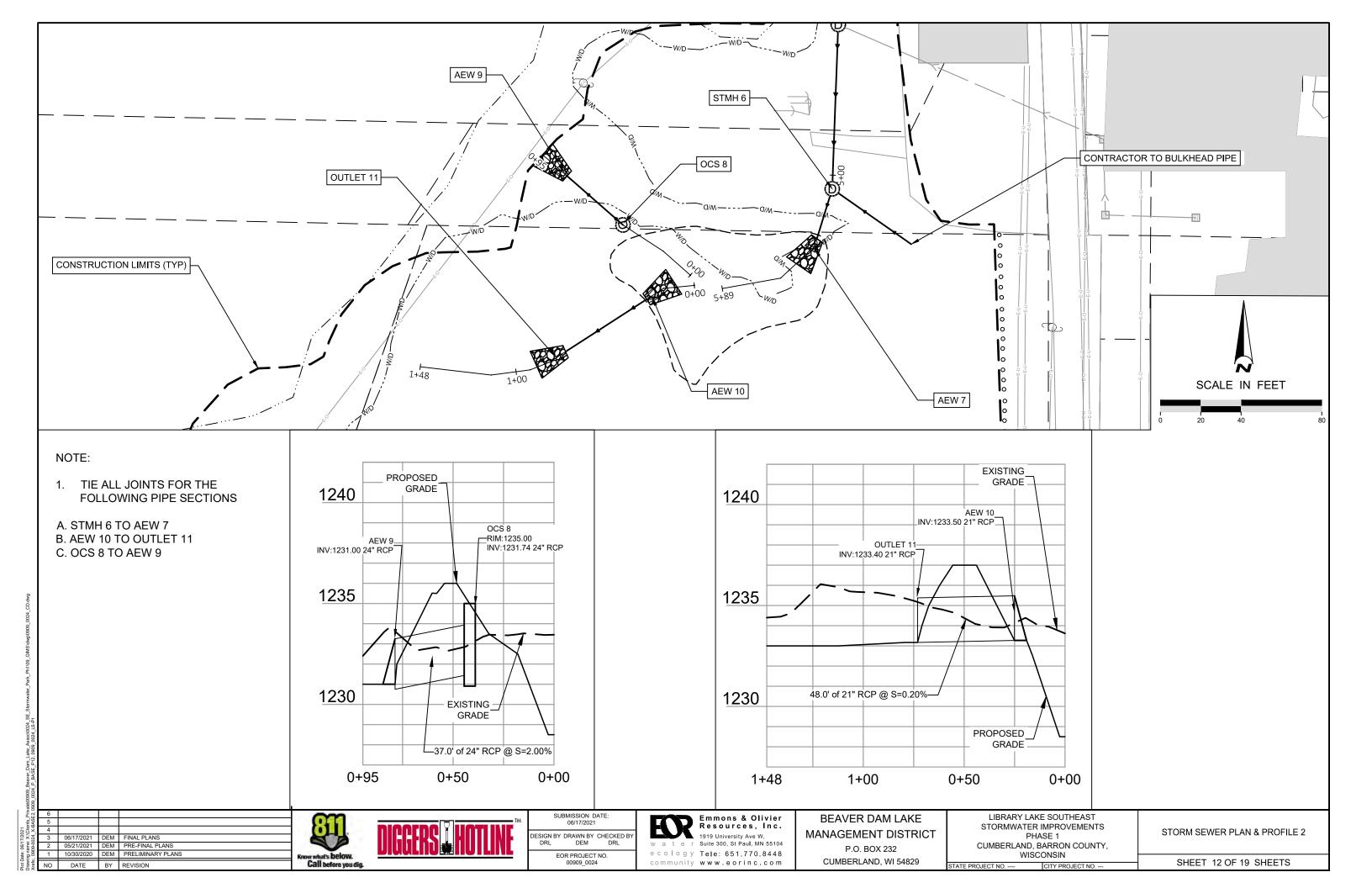


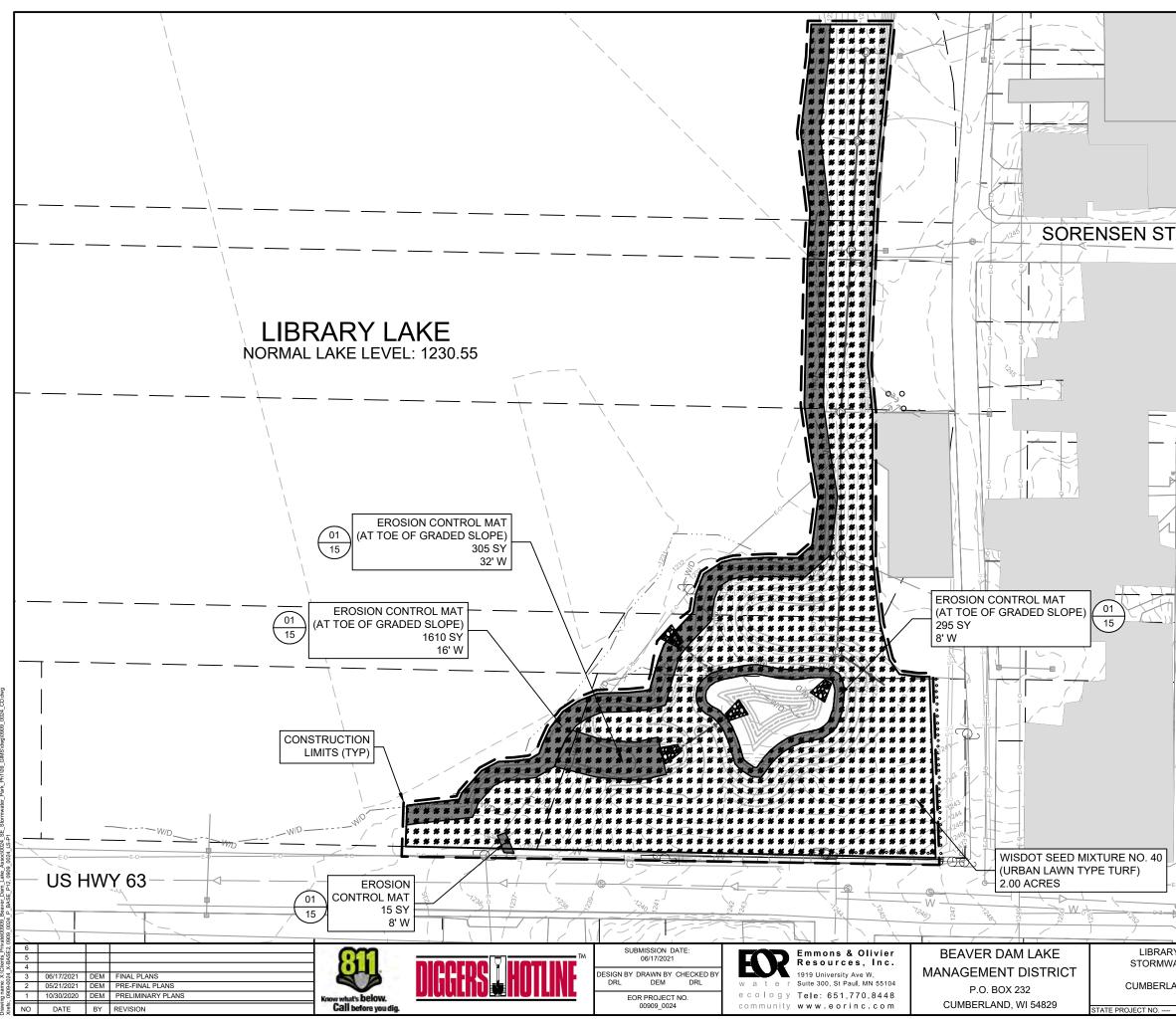












NOTE:

1. ENSURE A MINIMUM DEPTH OF 4 INCHES OF TOP SOIL SPREAD UNIFORMLY ACROSS ALL DISTURBED AREAS.

2. ALL DISTURBED AREAS ARE TO BE SEEDED WITH:

A. WISDOT SEED MIXTURE NO. 40 AT A RATE OF 2 LBS PER 1000 SF OR 87 LBS PER ACRE B. NURSE CROP SEED MIXTURE AT A RATE OF 0.80 LBS OER 1000 SQUARE FEET OR 35 LBS PER ACRE.

3. APPLY STRAW MULCH (CRIMPED) AT A RATE OF 2 TONS PER ACRE. INSURE UNIFORM COVERAGE AND NO STRAW IS BLOWN OFF THE PROJECT SITE.

4. INSTALL EROSION CONTROL MAT (URBAN CLASS I TYPE A - CURLEX I FIBRENET OR APPROVED EQUAL) AS SPECIFIED IN THE PLANS.

5. CONTRACTOR SHALL NOT BE PAID FOR ANY EROSION CONTROL MAT IF IT IS NOT INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INCLUDING BUT NOT LIMITED TO EDGE TRENCHING AND PROPER STAPLE INSTALLATION.



LIBRARY LAKE SOUTHEAST STORMWATER IMPROVEMENTS PHASE 1 CUMBERLAND, BARRON COUNTY, WISCONSIN

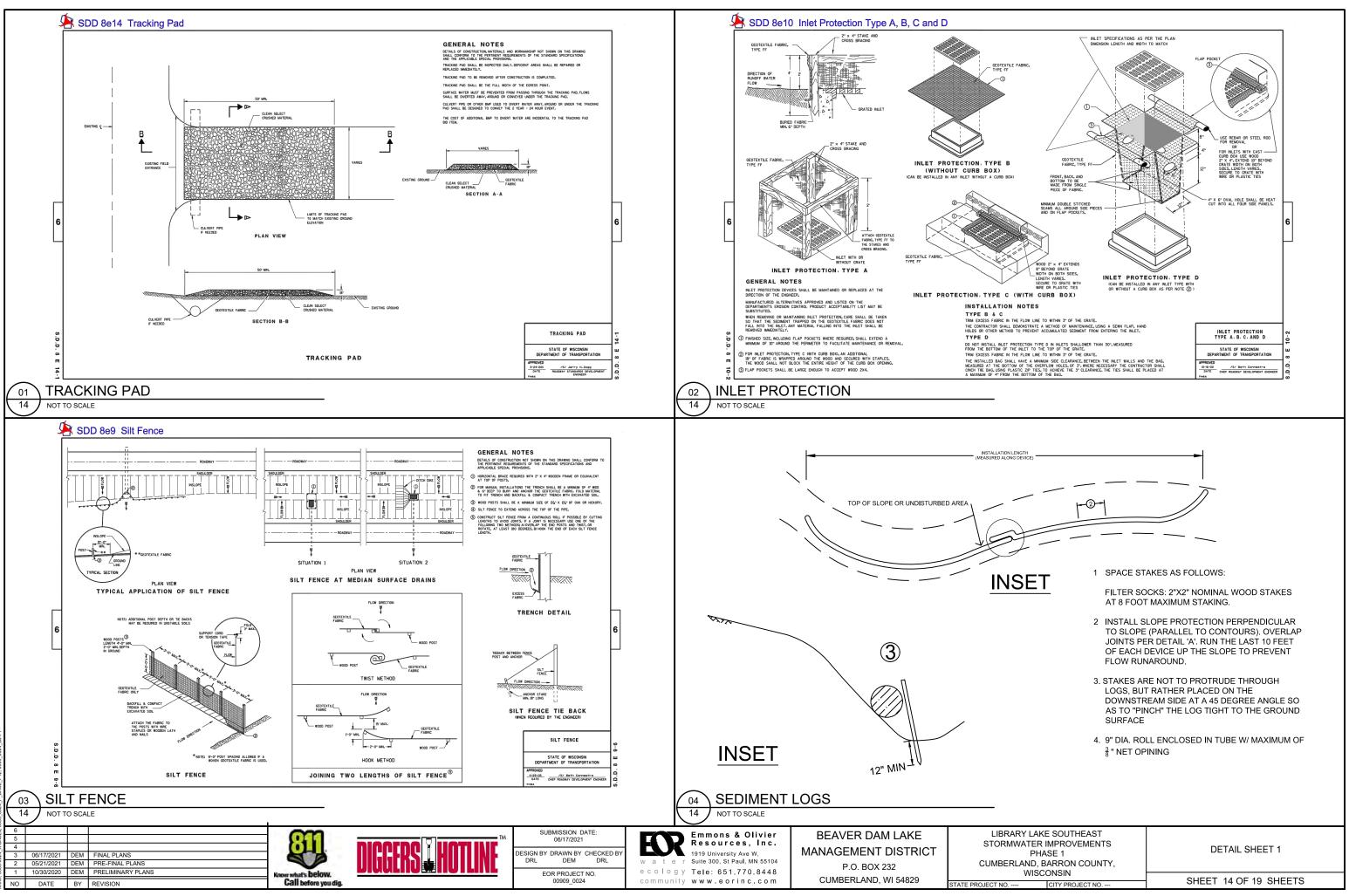
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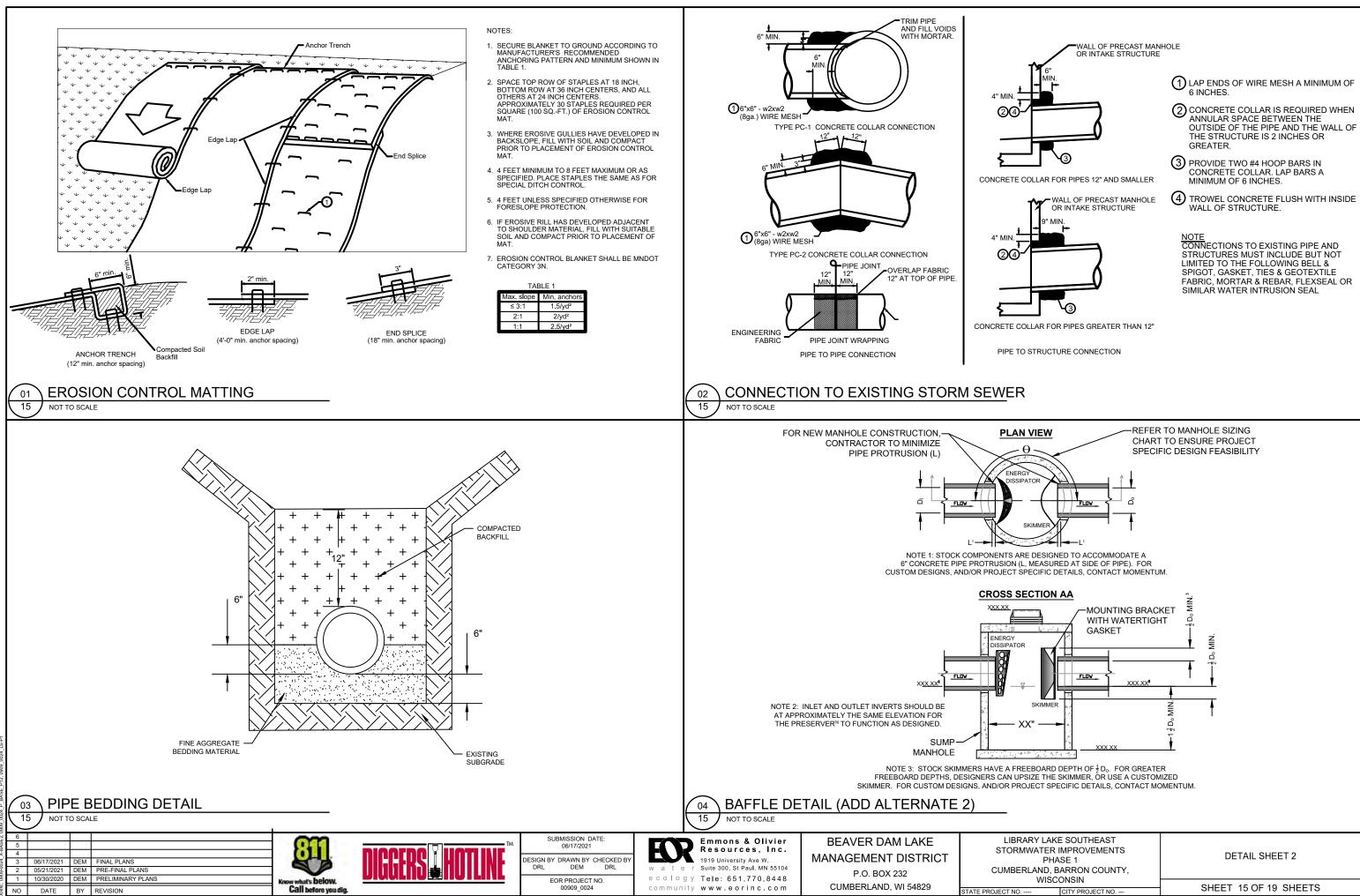
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SU

RESTORATION PLAN

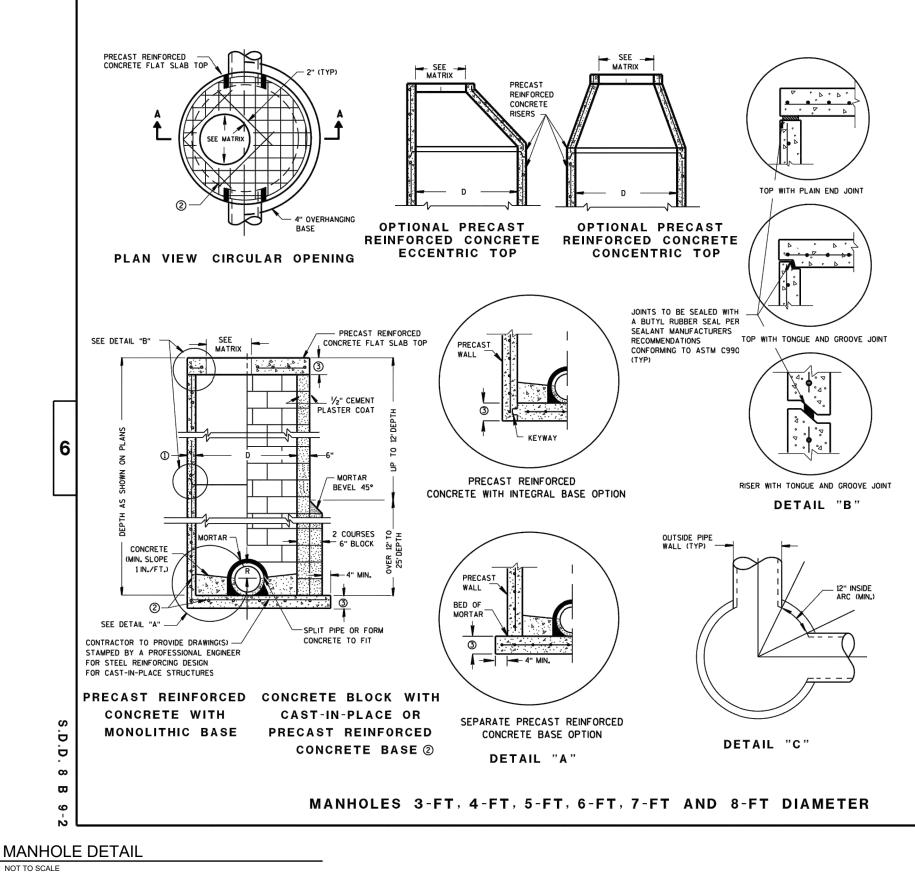
SHEET 13 OF 19 SHEETS





ARY LAKE SOUTHEAST	
IWATER IMPROVEMENTS	
PHASE 1	
RLAND, BARRON COUNTY,	
WISCONSIN	

SDD 8b9 Manholes 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, and 8-FT Diameter



GENERAL NOTES

THE ENGINEER.

FOR EQUIVALENT CAPACITY AND STRENGTH.

SUPPORT FOR THE ENTIRE AREA OF THE BASE.

USED ON CONCRETE BLOCK STRUCTURES.

SECTIONAL DIMENSION OF 1 INCH.

DESIGNATION M 199.

INTEGRAL OR MONOLITHIC BASE.

STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

TO FOR 6-FT, B INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

(2) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	С	ALL J'S	к	
OPENING SIZE (FT)				
2 DIA.	x	x		
3 DIA.			x	

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETEI FOR TWO PIPES			
	180° SEPARATION (IN)	90° SEPAR		
3-FT	15	1		
4-F T	24	1		
5-FT	36	2		
6-FT	42	3		
7-F T	48	3		
8-FT	60	4		

	1					
FINAL PLANS PRE-FINAL PLANS PRELIMINARY PLANS REVISION	Know what's below. Call before you dig.	DIGGERS HOTLINE	SUBMISSION DATE: 06/17/2021 DESIGN BY DRAWN BY CHECKED BY DRL DEM DRL EOR PROJECT NO. 00909_0024	EmponentEmmons & Olivier Resources, Inc.w a t e r1919 University Ave W, Suite 300, St Paul, MN 55104e cology communityTele: 651.770.8448 www.eorinc.com	BEAVER DAM LAKE MANAGEMENT DISTRICT P.O. BOX 232 CUMBERLAND, WI 54829	LIBF STORI CUMBE
	-					-

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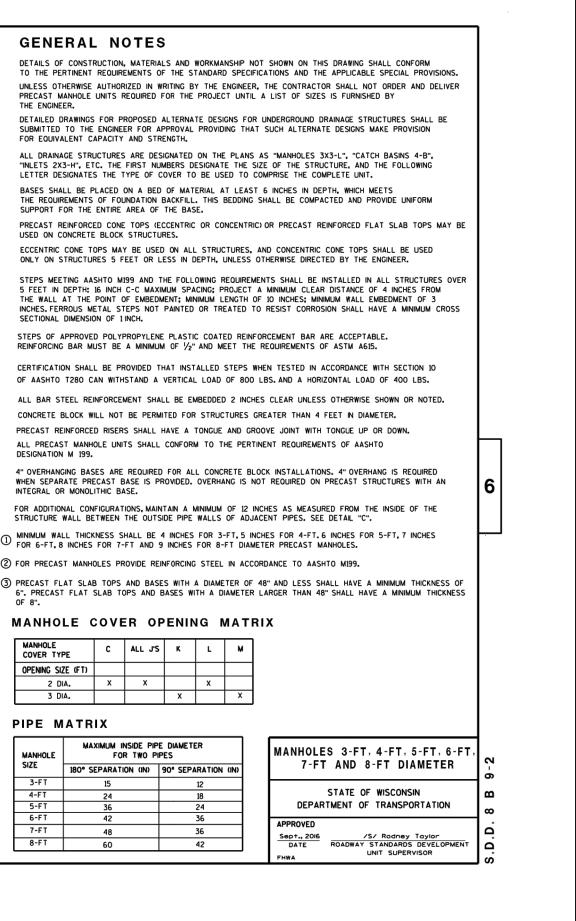
06/17/2021 2 05/21/2021 DEM PR

DATE

10/30/2020 DEM PI

DEM FIN

BY RE

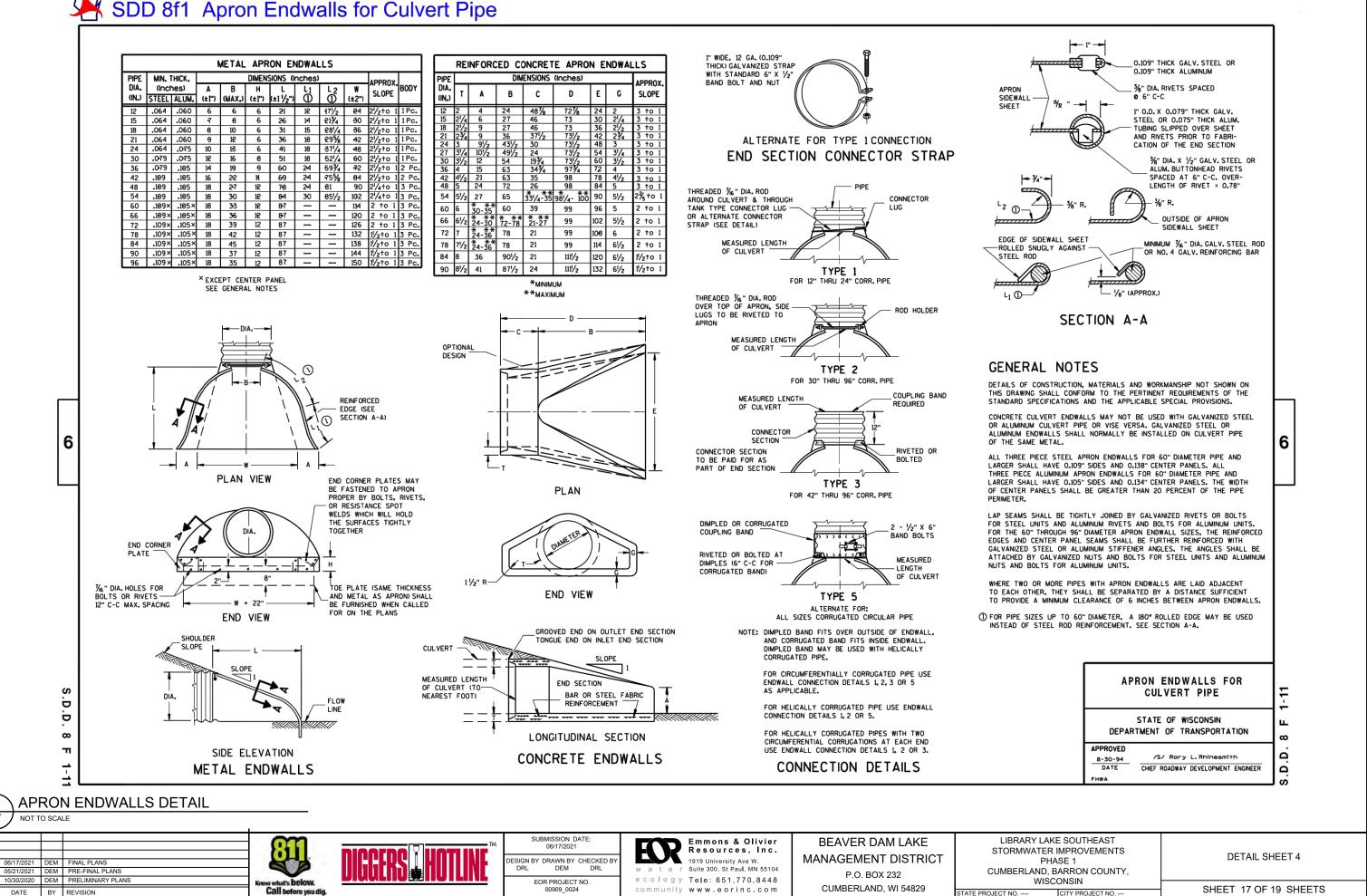


BRARY LAKE SOUTHEAST RMWATER IMPROVEMENTS PHASE 1 BERLAND, BARRON COUNTY, WISCONSIN CITY PROJECT NO. NO. ----

DETAIL SHEET 3

SHEET 16 OF 19 SHEETS

SDD 8f1 Apron Endwalls for Culvert Pipe



community www.eorinc.com

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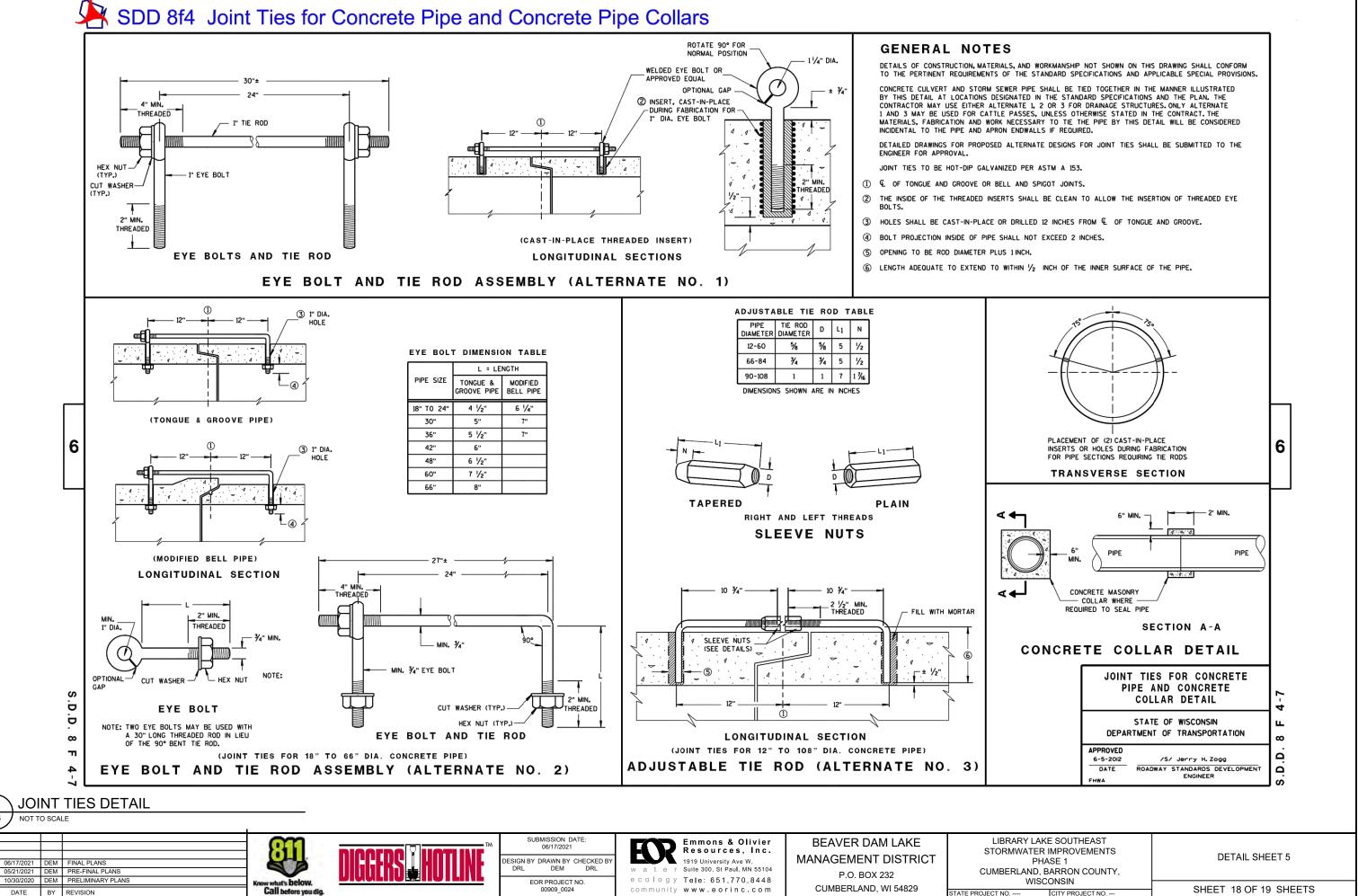
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DATE BY REVISION

SHEET 17 OF 19 SHEETS

STATE PROJECT NO.

CITY PROJECT NO



CITY PROJECT NO

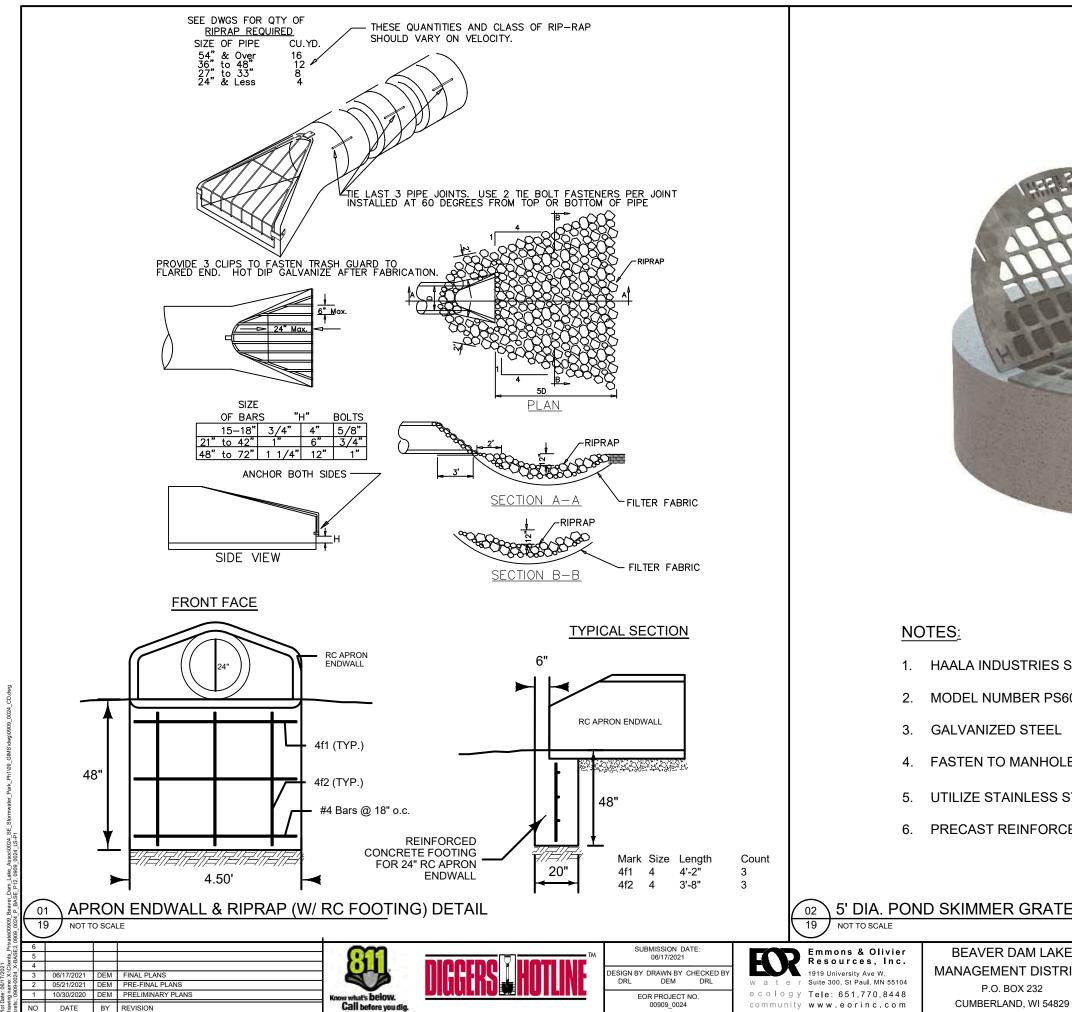
TATE PROJECT NO

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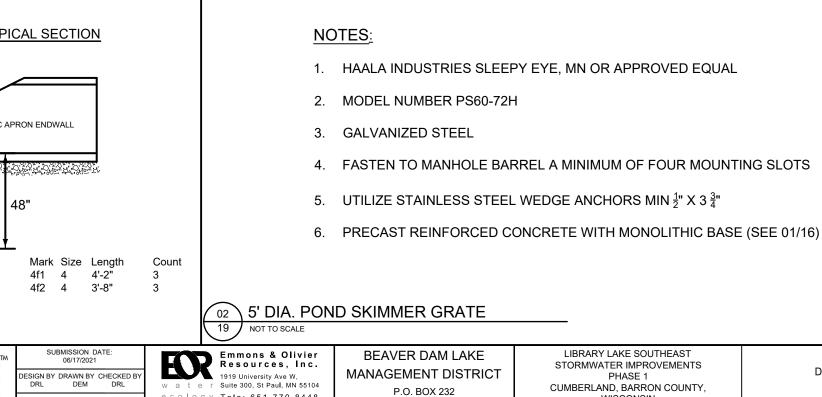
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DATE BY REVISION







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WISCONSIN	
	CITY PROJECT NO

STATE PROJECT NO.

SHEET 19 OF 19 SHEETS

DETAIL SHEET 6