

RIVER POINT K1 SITE

FINAL DESIGN REVIEW

LA CROSSE, WISCONSIN

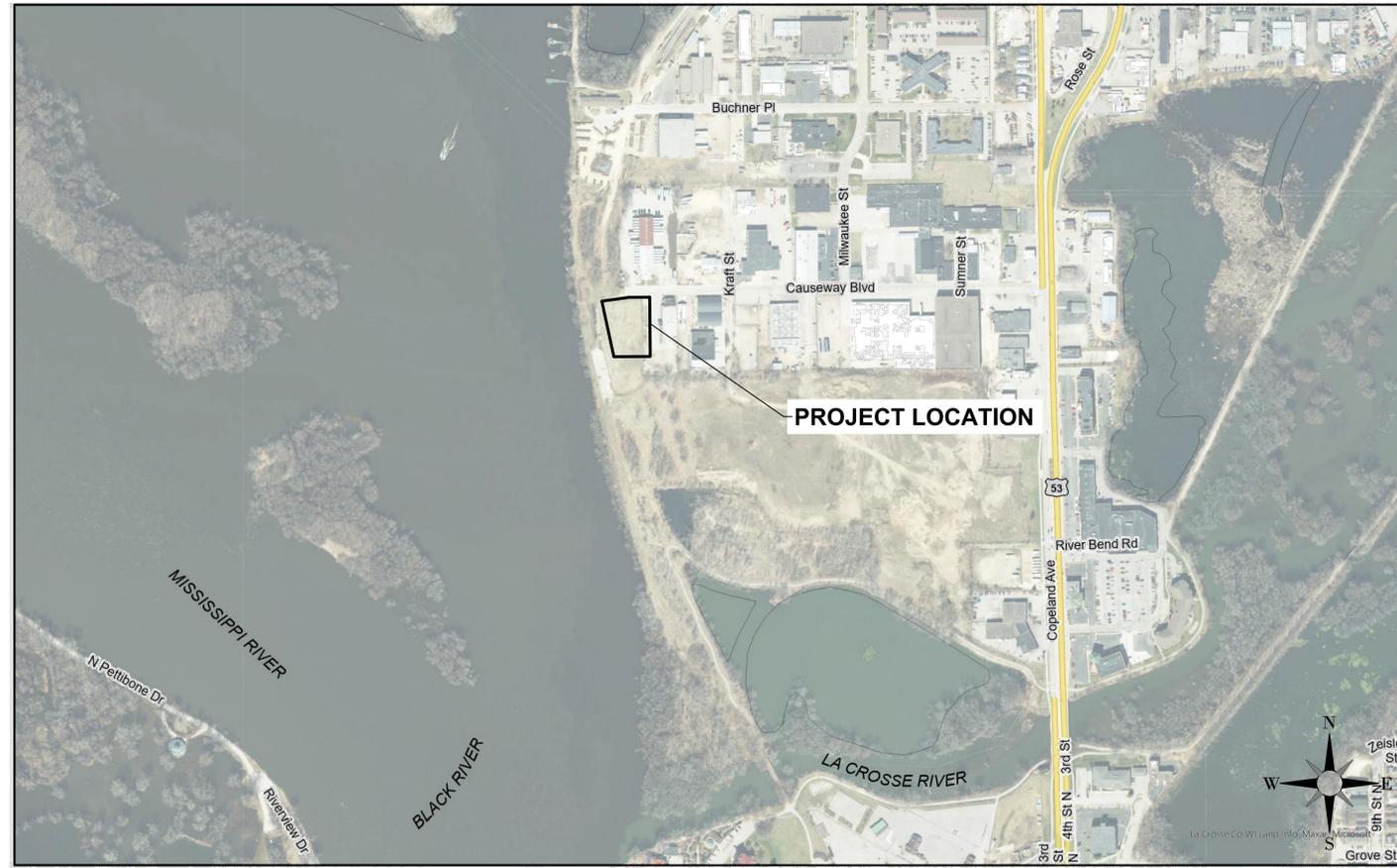
ISG PROJECT # 23-30331



LEGEND

EXISTING	
---	CITY LIMITS
---	SECTION LINE
---	QUARTER SECTION LINE
---	RIGHT OF WAY LINE
---	PROPERTY / LOTLINE
---	EASEMENT LINE
---	ACCESS CONTROL
---	WATER EDGE
---	WETLAND BOUNDARY
---	WETLAND / MARSH
---	FENCE LINE
---	CULVERT
---	STORM SEWER
---	SANITARY SEWER
---	SANITARY SEWER FORCEMAIN
---	WATER
---	GAS
---	OVERHEAD ELECTRIC
---	UNDERGROUND ELECTRIC
---	UNDERGROUND TELEPHONE
---	UNDERGROUND TV
---	OVERHEAD UTILITY
---	UNDERGROUND UTILITY
---	UNDERGROUND FIBER OPTIC
---	CONTOUR (MAJOR)
---	CONTOUR (MINOR)
---	DECIDUOUS TREE
---	CONIFEROUS TREE
---	TREE LINE
---	MANHOLE/STRUCTURE
---	CATCH BASIN
---	HYDRANT
---	VALVE
---	CURB STOP
---	POWER POLE
---	UTILITY PEDESTAL / CABINET

PROPOSED	
---	LOT LINE
---	RIGHT OF WAY
---	EASEMENT
---	CULVERT
---	STORM SEWER
---	STORM SEWER (PIPE WIDTH)
---	SANITARY SEWER
---	SANITARY SEWER (PIPE WIDTH)
---	WATER
---	GAS
---	OVERHEAD ELECTRIC
---	UNDERGROUND ELECTRIC
---	UNDERGROUND TV
---	CONTOUR
---	MANHOLE (STORM, SANITARY)
---	CATCH BASIN
---	HYDRANT
---	VALVE



LOCATION MAP



ABBREVIATIONS:

AC ACRE	CIPC CAST IN PLACE CONCRETE	ELEV ELEVATION	GFE GARAGE FLOOR ELEVATION	IP IRON PIPE	NTS NOT TO SCALE	RAD RADIUS	TEMP TEMPORARY
ADA AMERICANS WITH DISABILITIES ACT	CJ CONTROL JOINT	EOF EMERGENCY OVERFLOW	GL GUTTER LINE	IPS IRON PIPE SIZE	NWL NORMAL WATER LEVEL	RCP REINFORCED CONCRETE PIPE	THRU THROUGH
ADD ADDENDUM	CL CENTERLINE	EQ EQUAL	GPM GALLONS PER MINUTE	J-BOX JUNCTION BOX	OC ON CENTER	RD ROOF DRAIN	TNHF TOP NUT OF FIRE HYDRANT
AFB ABOVE FINISHED FLOOR	CM CORRUGATED METAL PIPE	EX EXISTING	GV GATE VALVE	JT JOINT	OCEW ON CENTER EACH WAY	REBAR REINFORCING BAR	TRANS TRANSFORMER
AGG AGGREGATE	CO CLEANOUT	FDC FIRE DEPARTMENT CONNECTION	HDPE HIGH DENSITY POLYETHYLENE	LF LINEAR FEET	OH OVERHEAD	REM REMOVE	TV TELEVISION
APPROX APPROXIMATE	CONC CONCRETE	FDN FOUNDATION	HD HEAVY DUTY	LN LINEAR	OHD OVERHEAD DOOR	ROW RIGHT OF WAY	T/W TOP OF WALL
ARCH ARCHITECT, ARCHITECTURAL	CONST CONSTRUCTION	FES FINISHED FLOOR ELEVATION	HH HANDHOLE	LPS LOW PRESSURE STEAM	OZ OUNCE	R/W RIGHT OF WAY	TYP TYPICAL
BFE BASEMENT FLOOR ELEVATION	CONT CONTINUOUS	FFP FEET PER MINUTE	HR HORIZONTAL	LS LUMP SUM	PED PEDESTAL, PEDESTRIAN	SAN SANITARY	UT UTILITY, UNDERGROUND
BIT BITUMINOUS	CY CUBIC YARD	PPM FEET PER MINUTE	HR HOUR	ISO LOWEST STRUCTURAL OPENING	PERF PERFORATED	SCH SCHEDULE	VCP VITRIFIED CLAY PIPE
BM BENCHMARK	C&G CURB AND GUTTER	FPS FEET PER SECOND	HWL HIGH WATER LEVEL	MAX MAXIMUM	PL PROPERTY LINE	SF SQUARE FOOT	W/O WITHOUT
CAD COMPUTER-AIDED DESIGN	DEMO DEMOLITION	FT FOOT, FEET	HWY HIGHWAY	MB MAIL BOX	PP POLYPROPYLENE	SPEC SPECIFICATION	W/ WITH
CB CATCH BASIN	DIA DIAMETER	FTG FOOTING	HYD HYDRANT	MECH MECHANICAL	PSI POUNDS PER SQUARE INCH	SQ SQUARE	YD YARD
CFS CUBIC FEET PER SECOND	DIM DIMENSION	GA GAUGE	I INVERT	MH MANHOLE	PVC POLYVINYL CHLORIDE	STA STATION	YR YEAR
CF CUBIC FOOT	DS DOWNSPOUT	GAL GALLON	ID INSIDE DIAMETER	MIN MINIMUM	PVMT PAVEMENT	SY SQUARE YARD	
CI CAST IRON	EA EACH	GALV GALVANIZED	IN INCH	MISC MISCELLANEOUS	T/C TOP OF CURB	TEL TELEPHONE	
CIP CAST IRON PIPE	ELEC ELECTRICAL	GC GENERAL CONTRACTOR	INV INVERT	NO NUMBER	R RIM		

PROJECT INDEX:

OWNER:

WAR EAGLE, LLC
1310 WEST WISCONSIN STREET
SPARTA, WI 54656

PROJECT ADDRESS / LOCATION:

LOT 10 OF RIVER POINT DISTRICT II
S31 TWP16N R07W

LA CROSSE, WISCONSIN

MANAGING OFFICE:

LA CROSSE OFFICE
201 MAIN STREET
SUITE 1020
LA CROSSE, WI 54601
PHONE: 608.789.2034

PROJECT MANAGER: KRIS ROPPE
EMAIL: kris.roppe@isginc.com

SPECIFICATIONS REFERENCE

ALL CONSTRUCTION SHALL COMPLY WITH THE CITY OF LA CROSSE STANDARD SPECIFICATIONS, CURRENT EDITION, WISDOT STANDARD SPECIFICATIONS, 2024 EDITION, WISDOT CONSTRUCTION AND MATERIALS MANUAL, CURRENT EDITION, WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES STATE PLUMBING CODE, CURRENT EDITION, AND STANDARD SPECIFICATION FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, 6th EDITION, UNLESS DIRECTED OTHERWISE.

PROJECT DATUM

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 2011 ADJUSTMENT (NAD83(2011)) ON THE LA CROSSE COUNTY COORDINATE SYSTEM, IN U.S. SURVEY FEET.

B.M. ELEVATION=645.50'
TOP NUT OF FIRE HYDRANT

TOPOGRAPHIC SURVEY

THIS PROJECT'S TOPOGRAPHIC SURVEY CONSISTS OF DATA COLLECTED IN JANUARY 2024 BY ISG.

SHEET INDEX

C0-10	TITLE SHEET
C0-20	SITE DETAILS
C0-21	SITE DETAILS
C0-22	SITE DETAILS
C0-23	SITE DETAILS
C0-24	SITE DETAILS
C0-25	SITE DETAILS
C1-10	EROSION CONTROL NARRATIVE
C1-11	EROSION CONTROL NARRATIVE
C1-20	EROSION CONTROL DETAILS
C1-30	PRE-CONSTRUCTION EROSION CONTROL PLAN
C1-40	EROSION CONTROL PLAN
C2-10	EXISTING SITE AND REMOVAL PLAN
C3-10	SITE PLAN
C3-20	SITE UTILITY PLAN
C4-10	GRADING PLAN
C5-10	RESTORATION PLAN
C5-20	PLANTING PLAN
C5-30	LANDSCAPE DETAILS
C5-40	FURNISHINGS PLAN
C5-50	IRRIGATION PLAN
E2-00	PHOTOMETRIC PLAN
E2-01	SITE ELECTRICAL FIXTURES

PROJECT GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS, AND CLARIFICATIONS ISSUED BY ARCHITECT/ENGINEER.
- CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- THE LOCATION AND TYPE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
- THE CONTRACTOR IS TO CONTACT "DIGGERS HOTLINE" FOR UTILITY LOCATIONS A MINIMUM OF 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (811 OR 1-800-242-8511).



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PROJECT

RIVER POINT K1 SITE

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-CO-GENERAL
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
ORIGINAL ISSUE DATE	03/28/2024
CLIENT PROJECT NO.	-

TITLE

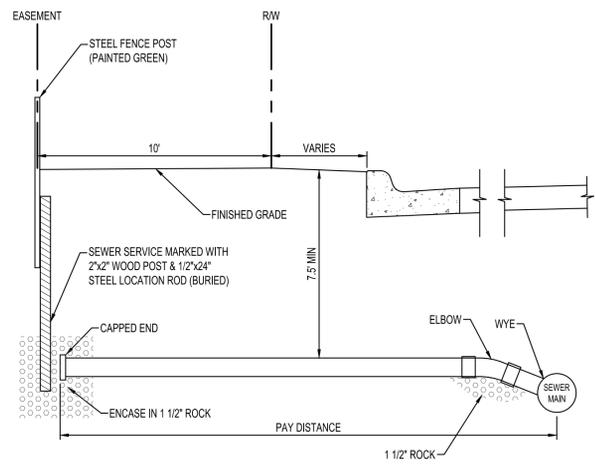
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SHEET

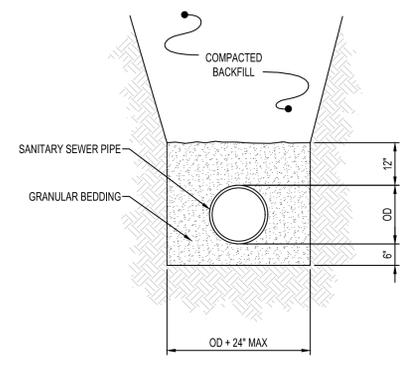
C0-10



PRELIMINARY NOT FOR CONSTRUCTION

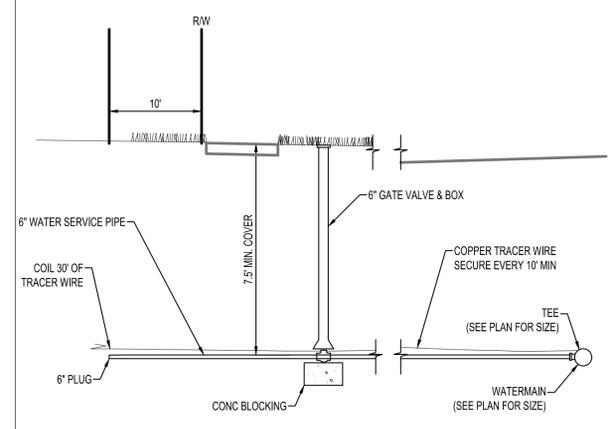


RESIDENTIAL SANITARY SERVICE
NTS

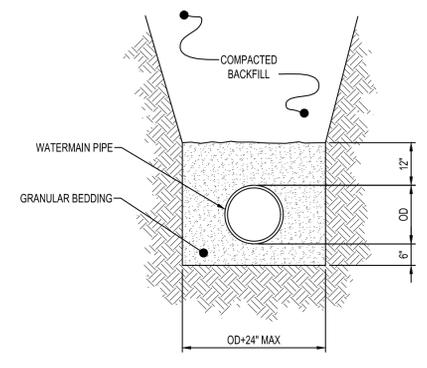


NOTES:
1. GRANULAR BEDDING AND ENCASEMENT FOR SANITARY SEWER PIPES SHALL BE INCIDENTAL TO CONSTRUCTION

PIPE BEDDING SANITARY SEWER
NTS



TYPICAL WATER SERVICE
NTS WM500



NOTE:
1. GRANULAR BEDDING AND ENCASEMENT FOR WATERMAIN PIPES SHALL BE INCIDENTAL TO CONSTRUCTION

PIPE BEDDING WATERMAIN
NTS

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PROJECT

**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

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DATE	DESCRIPTION	BY

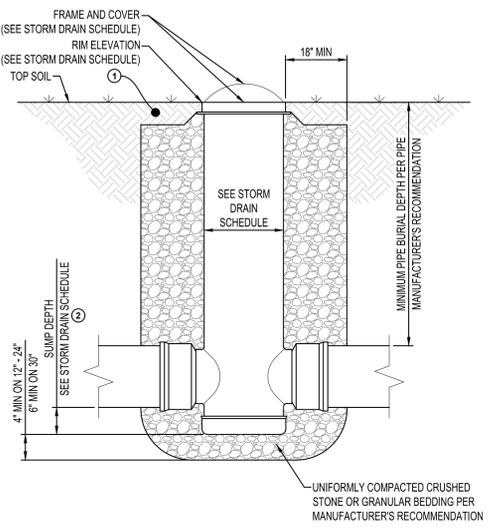
PROJECT NO.	23-30331
FILE NAME	30331-CO-DETAILS
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
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TITLE

SITE DETAILS

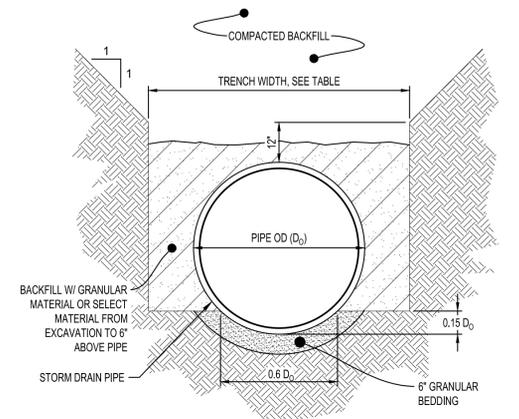
SHEET

C0-20



KEY NOTES:
① DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS TO DO NOT FORM
② 6" MIN ON 8" - 24" DRAIN BASIN, 10" MIN ON 30" DRAIN BASIN. VERIFY WITH MANUFACTURER'S RECOMMENDATIONS.

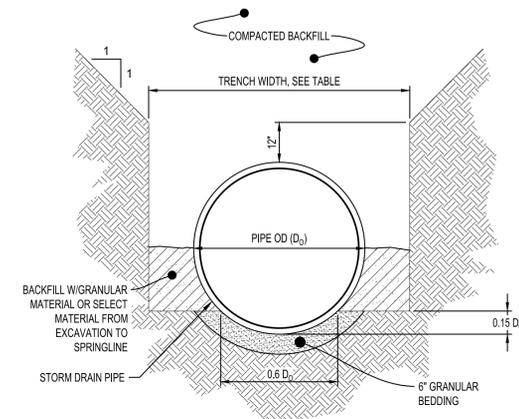
DRAIN BASIN
NTS



TRENCH WIDTH	
PIPE Ø	TRENCH WIDTH
36" OR LESS	D _o + 24"
42" TO 54"	1.5 x D _o
60" OR OVER	D _o + 36"

NOTES:
1. GRANULAR BEDDING AND BACKFILL FOR STORM DRAIN PIPES SHALL BE INCIDENTAL TO STORM DRAIN CONSTRUCTION

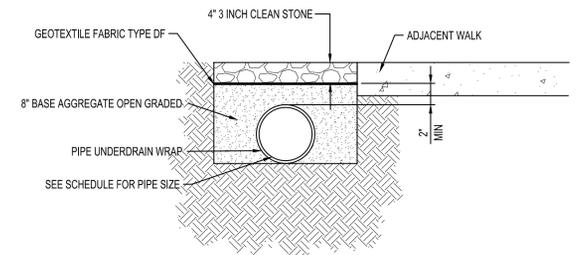
NON-CONCRETE STORM DRAIN PIPE BEDDING
NTS



TRENCH WIDTH	
PIPE Ø	TRENCH WIDTH
36" OR LESS	D _o + 24"
42" TO 54"	1.5 x D _o
60" OR OVER	D _o + 36"

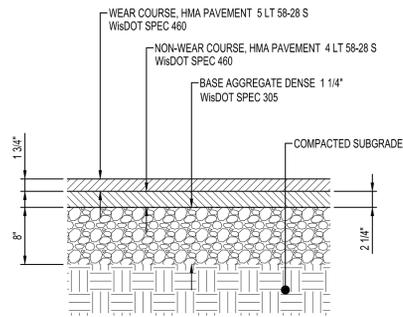
NOTES:
1. GRANULAR BEDDING AND BACKFILL FOR STORM DRAIN PIPES SHALL BE INCIDENTAL TO STORM DRAIN CONSTRUCTION

REINFORCED CONCRETE STORM DRAIN PIPE BEDDING
NTS

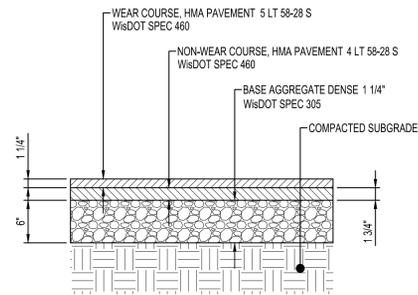


ROCK LANDSCAPING WITH UNDERDRAIN DETAIL
NTS SD990

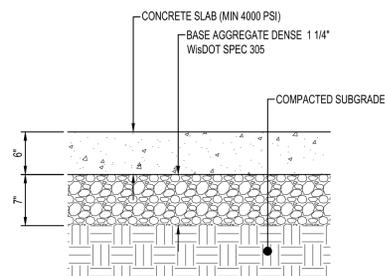
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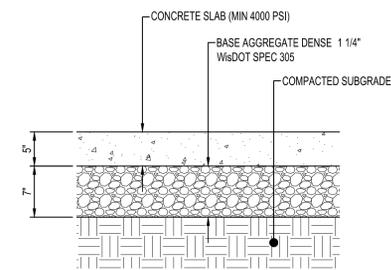
HEAVY DUTY ASPHALT PAVEMENT
NTS



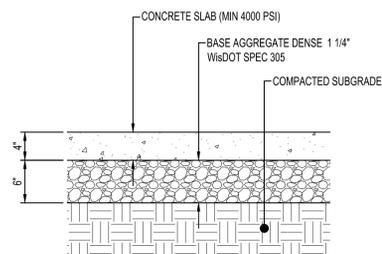
STANDARD ASPHALT PAVEMENT
NTS



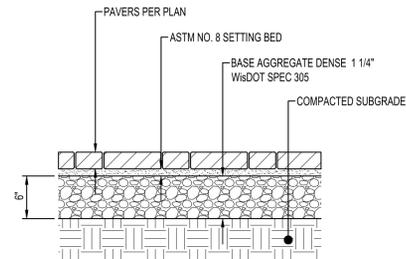
HEAVY DUTY CONCRETE PAVEMENT
NTS



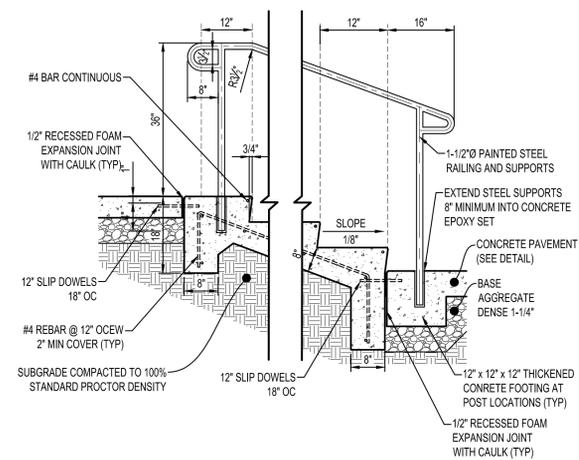
STANDARD CONCRETE PAVEMENT
NTS



CONCRETE WALK
NTS



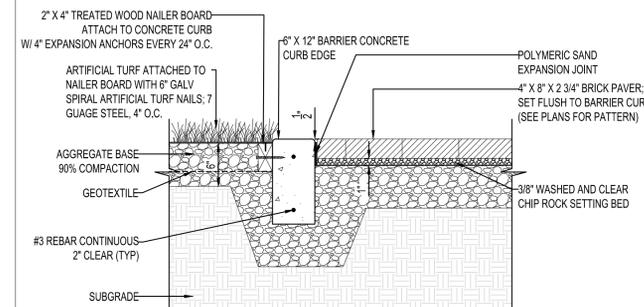
WALK PAVERS
NTS



NOTES:

- ALL COMPONENTS OF RAILING AND SUPPORTS SHALL BE SHOP PRIMED AND POWDER COATED. SUBMIT COLOR SAMPLES FOR LANDSCAPE ARCHITECT APPROVAL.
- DETAIL DRAWN FOR GUIDANCE ONLY. REFER TO PLAN FOR EXACT NUMBER OF TREADS AND RISERS.

CONCRETE STAIR WITH RAILING
NTS



NOTES:

- THE GRASS MUST BE INSTALLED AND SEAMED WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION. SEAMS SHOULD BE GLUED WITH SUITABLE SEAMING GLUE AND SEAMING CLOTH, NOT ADHESIVE TAPE.

ARTIFICIAL TURF BARRIER CURB ALONG PAVER WALK
1" = 1'-0"

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PROJECT

**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-CO-DETAILS
DRAWN BY	BDC
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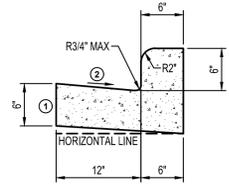
TITLE

SITE DETAILS

SHEET



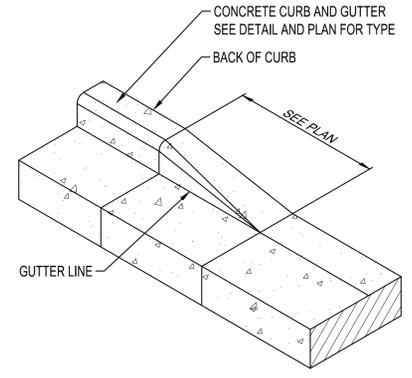
PRELIMINARY NOT FOR CONSTRUCTION



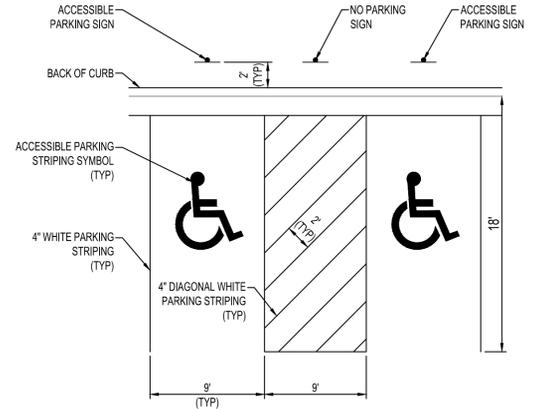
KEY NOTES:

- ① THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ② USE 4% GUTTER SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

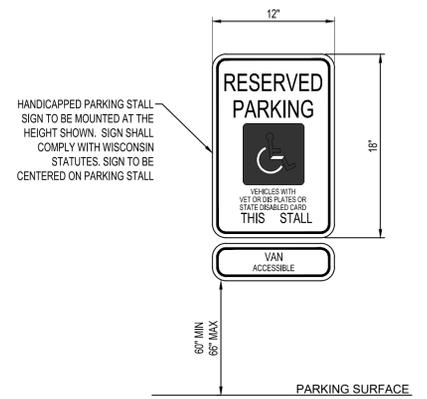
18" TYPE D CONCRETE CURB & GUTTER
NTS



CURB TAPER
NTS



ACCESSIBLE PARKING AREA
NTS



ACCESSIBLE PARKING SIGN
NTS

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

PLAN VIEW CIRCULAR OPENING

OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

PRECAST REINFORCED CONCRETE BASE

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

DETAIL "B"

DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3x3-1", "CATCH BASINS 4-8", "TRAPS 2x2-1", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS ECCENTRIC OR CONCENTRIC OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH IN INCH (C-C MAXIMUM SPACING) PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES; FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 3/8" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED. CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER. PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN. ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 399.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MORTARING BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 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.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL JS	K	L	M
2 DIA.	X	X	X	X	X
3 DIA.			X	X	X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER OR TWO PIPES	90° SEPARATION (IN)	180° SEPARATION (IN)
3-FT	15	12	12
4-FT	24	18	18
5-FT	36	24	24
6-FT	42	36	36
7-FT	48	36	36
8-FT	60	42	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

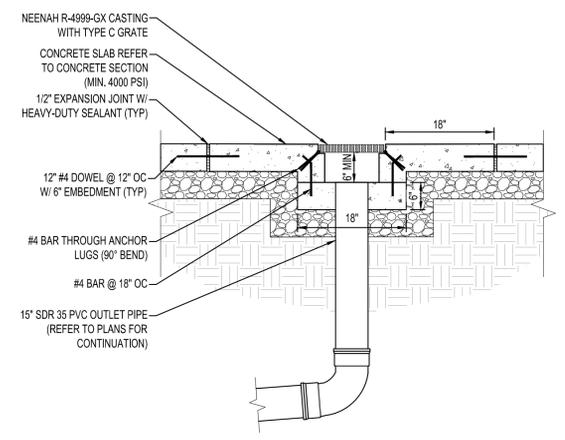
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]*
DATE: 03/28/2024
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR



MANUFACTURER: STRUCTURA
MODEL: TOKA
RECOMMENDED FRAME: STRAIGHT 12; SCOTS PINE/DOUGLAS FIR
MOUNTING: EMBEDDED

FESTOON POLE (BASIS OF DESIGN)
NTS



- NOTES:**
- REFER TO NEENAH FOUNDARY FORMING PROCEDURES FOR ADDITIONAL INFORMATION ON THE CONSTRUCTION OF THE TRENCH DRAIN.

CONCRETE TRENCH DRAIN
NTS

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PROJECT

**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-CO-DETAILS
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
ORIGINAL ISSUE DATE	03/28/2024
CLIENT PROJECT NO.	-

TITLE

SITE DETAILS

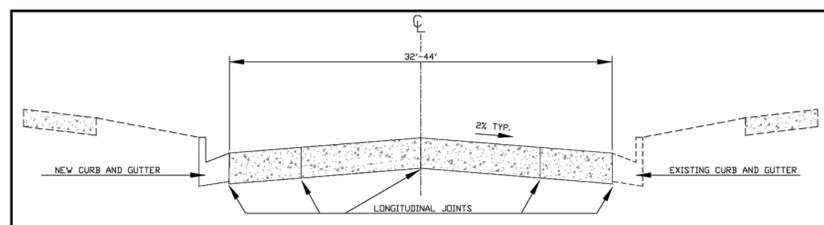
SHEET

C0-22

PLOT DATE: 4/22/2024 9:31 AM

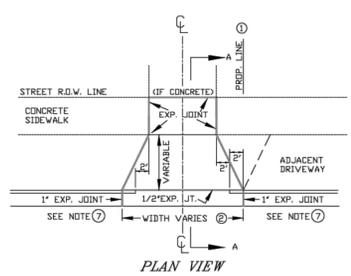


PRELIMINARY NOT FOR CONSTRUCTION

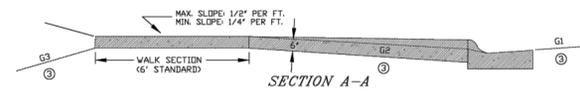


TYPICAL CROSS SECTION FOR 36' ROADWAY

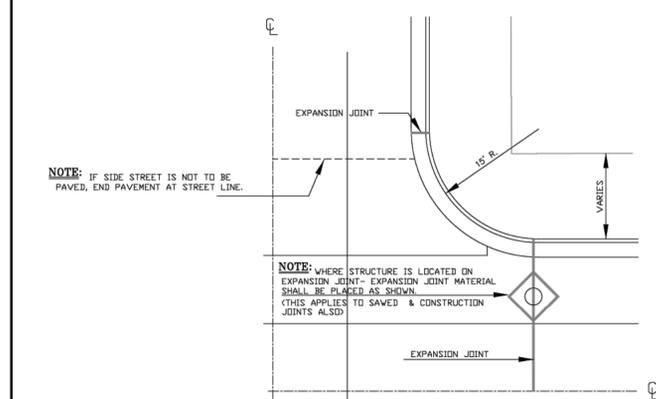
DRAWINGS NOT TO SCALE



PLAN VIEW



SECTION A-A



1/4 TYPICAL INTERSECTION

NOTE: IF SIDE STREET IS NOT TO BE PAVED, END PAVEMENT AT STREET LINE.

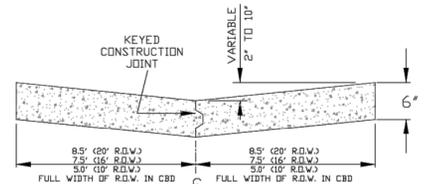
NOTE: WHERE STRUCTURE IS LOCATED ON EXPANSION JOINT- EXPANSION JOINT MATERIAL SHALL BE PLACED AS SHOWN (THIS APPLIES TO SAWED & CONSTRUCTION JOINTS ALSO)

NOTES- JOINTS

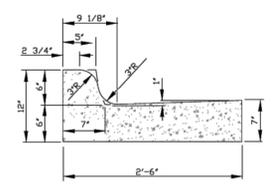
- 1. EXPANSION JOINTS SHALL BE PLACED AT THE END OF RADII AT STREET INTERSECTIONS AND MID-BLOCK BETWEEN INTERSECTIONS. IN NO CASE SHALL THE DISTANCE BETWEEN EXPANSION JOINTS EXCEED 160 FEET.
2. THE DISTANCE BETWEEN TRAVERSE JOINTS SHALL NOT BE LESS THAN 10 FEET AND SHALL BE TYPICALLY 20 FEET APART.
3. LONGITUDINAL CONSTRUCTION JOINTS BETWEEN CURB AND GUTTER SECTION AND CONC. PAVING SECTION SHALL BE SEALED AS SHOWN ON JOINT DETAILS.

- 1. DRIVE SECTION SHALL NOT OVERLAP PROPERTY LINE EXTENDED, EXCEPT WHERE PERMITTED BY THE ENGINEER, OR WHEN A JOINT DRIVEWAY AGREEMENT IS EXECUTED BY OWNERS OF ADJACENT PROPERTIES.
2. MAX. DRIVEWAY WIDTH AT THE CURB AND SIDEWALK IS SET FORTH IN CITY ORDINANCE 5.03.
3. THE BREAKOVER ANGLE (CAUSE OF CARS BOTTOMING) BECOMES CRITICAL WHEN THE ALGEBRAIC DIFFERENCE OF GRADES (G1, G2, & G3) EXCEEDS 11%.
4. A REINFORCED DRIVE SECTION IS REQUIRED FOR CURB & GUTTER IN AREAS ZONED INDUSTRIAL OR COMMERCIAL.
5. BACK OF CURB TO FRONT OF CONC. SIDEWALK MUST BE CONCRETE, BRICK OR ASPHALTIC BITUMINOUS.
6. MECHANICAL COMPACTION OF SUBSOIL IN LAYERS LESS THAN 12" TO ACHIEVE MINIMUM COMPACTION OF 95% OF MAXIMUM DENSITY FROM MODIFIED PROCTOR IS REQUIRED. (INCLUDING STREET SIDE AFTER FORMS ARE REMOVED)
7. EXPANSION JOINT IS REQUIRED AT BOTH ENDS OF DRIVEWAY WHEN ONLY DRIVEWAY IS INSTALLED OR REPLACED. WHEN ENTIRE BLOCK OF CURB & GUTTER IS INSTALLED THE EXPANSION JOINT AT DRIVEWAY ENDS MAY BE OMITTED.
NOTE: TURNING OF 2" DIAMETER DRIVEWAY RETURNS IN LIEU OF DIMINISHING HEAD AS SHOWN IS PERMITTED IF DESIRED BY PROPERTY OWNER. INSTALLATION OF A DRIVEWAY BY REMOVING EXISTING CURB HEAD ONLY IS NOT ALLOWED. ENTIRE EXISTING C&G MUST BE REMOVED FOR NEW DRIVEWAYS. REMOVAL OF A MINIMUM 12" WIDTH OF BITUMINOUS TO INSTALL FRONT FORMS IS REQUIRED.

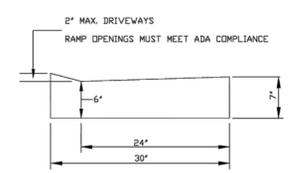
STANDARD DRIVEWAY DETAIL



TYPICAL SECTION OF ALLEY PAVEMENT

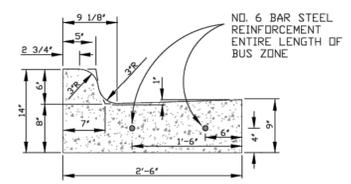


STANDARD CURB & GUTTER SECTION

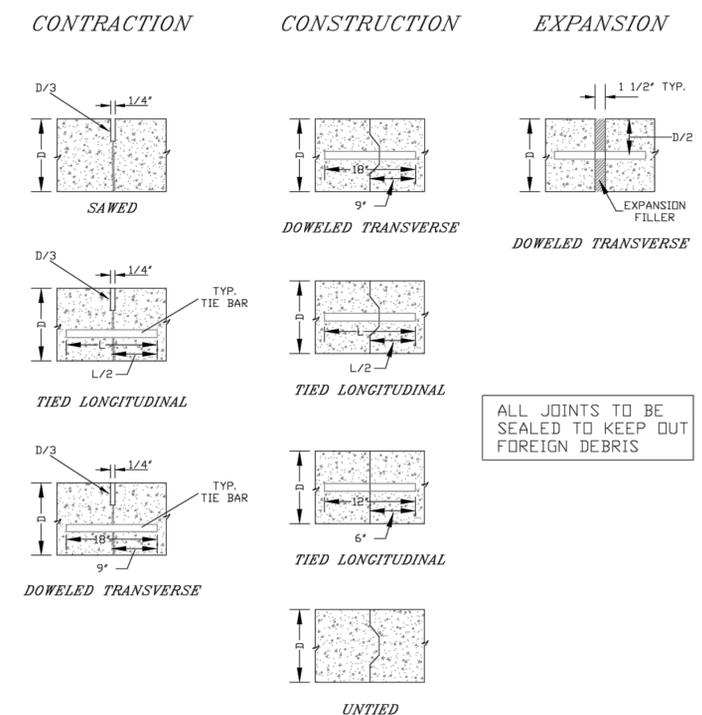


MOUNTABLE CURB SECTION

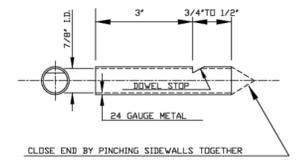
NOTE: WITH REFERENCE TO SAWING OF CONTRACTION JOINTS ON SLIP FORM CURB & GUTTER, A CURB, PAGE 9.2, STANDARD SPECS THE SAW CUT SHALL BE A MINIMUM 1/8" WIDE X 1" DEEP.



REINFORCED CURB & GUTTER BUS STOP LOCATIONS



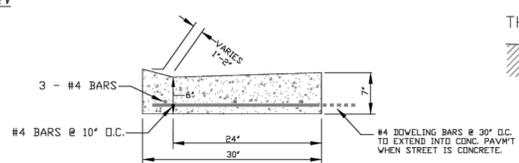
ALL JOINTS TO BE SEALED TO KEEP OUT FOREIGN DEBRIS



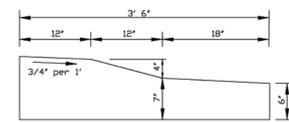
DOWEL SOCKET DETAIL



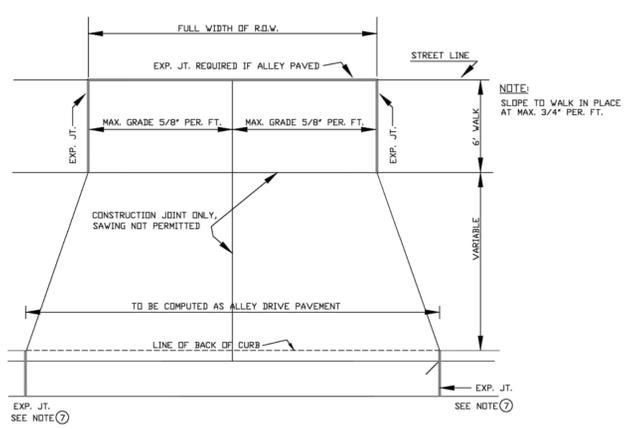
CONCRETE CROSSWALK DETAIL



REINFORCED DRIVEWAY



TRAFFIC CIRCLE CURB SECTION



STANDARD ALLEY DRIVEWAY 7" THICK

Table with project information: PROJECT No. CONCRETE-PAVEMENT DETAILS, LOCATION, RESOLUTION, DATE, ENGINEERING DEPT. City of LaCrosse, Wis., and revision schedule.

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PROJECT

RIVER POINT K1 SITE

LA CROSSE WISCONSIN

Table with revision schedule columns: DATE, DESCRIPTION, BY.

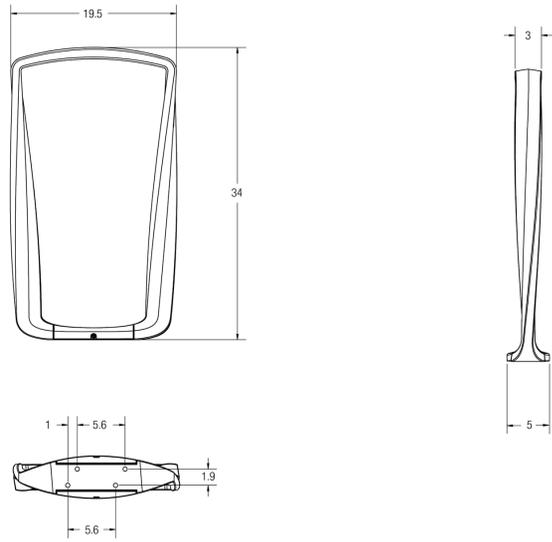
Table with project details: PROJECT NO. 23-30331, FILE NAME 30331-CO-DETAILS, DRAWN BY BDC, DESIGNED BY BDC/SMW, REVIEWED BY KBR, ORIGINAL ISSUE DATE 03/28/2024, CLIENT PROJECT NO. -

TITLE

SITE DETAILS

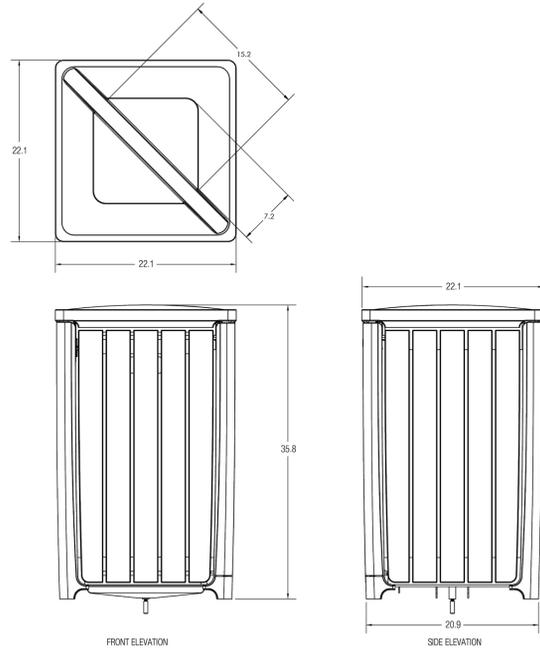
SHEET

C0-23



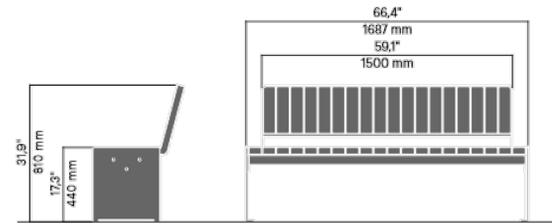
MANUFACTURER: FORMS + SURFACES
 MODEL: TWIST BIKE RACK
 RECOMMENDED FRAME: POWDERCOATED CLAY
 MOUNTING: SURFACE

BIKE RACK (BASIS OF DESIGN)
 NTS



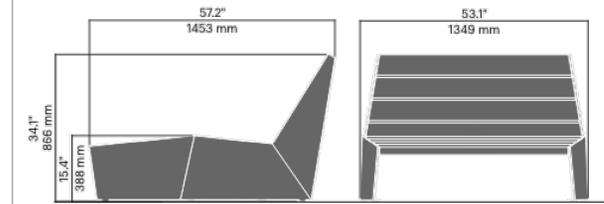
MANUFACTURER: FORMS + SURFACES
 MODEL: CORDIA 36 GAL. SPLIT STREAM
 RECOMMENDED FRAME: ALUMINUM W/ WOOD INSERTS
 MOUNTING: SURFACE

TRASH RECEPTACLE (BASIS OF DESIGN)
 NTS



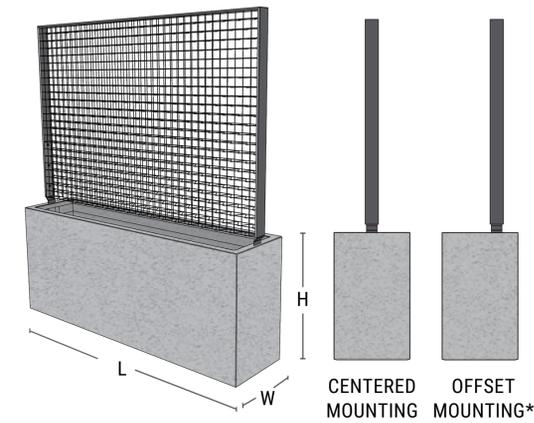
MANUFACTURER: VESTRE
 MODEL: 617 VROOM SEAT STRAIGHT END
 RECOMMENDED FRAME: POWDERCOATED STEEL PEARL ORANGE, STANDARD WOOD CLAY
 MOUNTING: SURFACE

BENCH (BASIS OF DESIGN)
 NTS



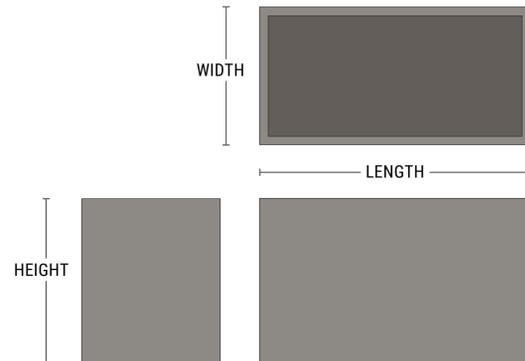
MANUFACTURER: VESTRE
 MODEL: BLOC SUN BENCH
 RECOMMENDED FRAME: POWDERCOAT STEEL PEARL ORANGE, STANDARD WOOD MOUNTING: SURFACE

CHAISE LOUNGER (BASIS OF DESIGN)
 NTS



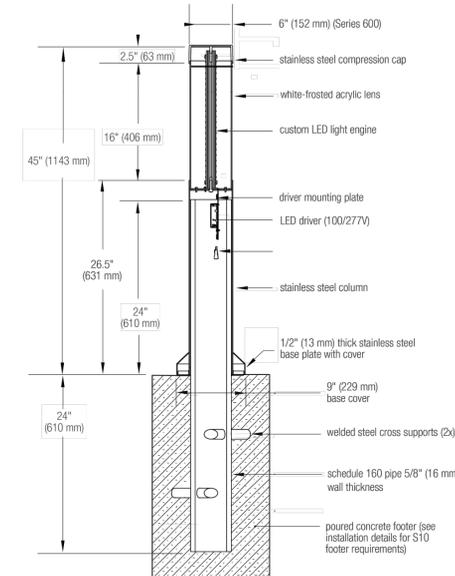
MANUFACTURER: TOURNESOL
 MODEL: WCX2-721824-74 WILLSHIRE FRP RECTANGLE W/ LASER CUT SCREEN; 18" X 24" X 72"
 RECOMMENDED FRAME: PITCH SMOOTH
 MOUNTING: SURFACE LAID

RAISED PLANTER (BASIS OF DESIGN)
 NTS



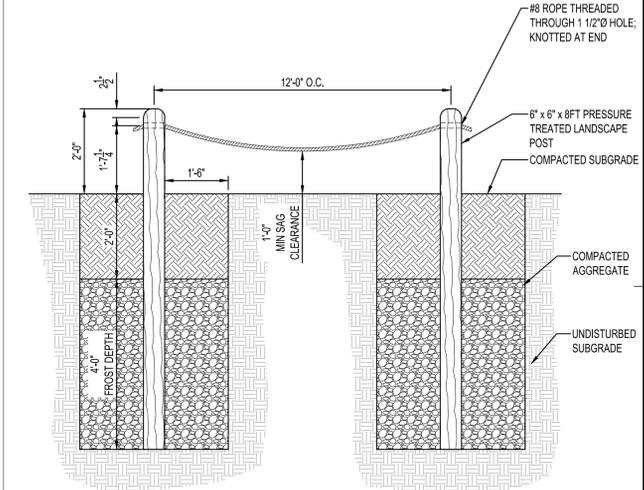
MANUFACTURER: TOURNESOL
 MODEL: WILLSHIRE FRP SQUARE; 60" X 42" X 60"
 RECOMMENDED FRAME: PITCH SMOOTH
 MOUNTING: SURFACE LAID

RAISED PLANTER (BASIS OF DESIGN)
 NTS



MANUFACTURER: FORMS + SURFACES
 MODEL: LIGHT COLUMN BOLLARD
 RECOMMENDED FRAME: STAINLESS STEEL; NO SHIELD, RGBW LED
 MOUNTING: EMBEDDED

BOLLARD (BASIS OF DESIGN)
 NTS



MANUFACTURER: CUSTOM
 RECOMMENDED FRAME: WOOD POLE W/ MOORING ROPE
 MOUNTING: EMBEDDED

DECORATIVE BOLLARD (BASIS OF DESIGN)
 1/2" = 1'-0"

ISG

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PROJECT

**RIVER POINT
 K1 SITE**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-CO-LANDSCAPE DETAILS
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
ORIGINAL ISSUE DATE	03/28/2024
CLIENT PROJECT NO.	-

TITLE

SITE DETAILS

SHEET

C0-24

PRELIMINARY NOT FOR CONSTRUCTION



EROSION CONTROL NOTES

PROJECT LOCATION
PROJECT LOCATION: LOT 10 OF RIVER POINT DISTRICT II
CITY: LA CROSSE
COUNTY/STATE: LA CROSSE COUNTY WISCONSIN

PROJECT DESCRIPTION
THE PROJECT INCLUDES CONSTRUCTION OF A NEW MIXED USE BUILDING ALONG WITH PARKING LOT, SITE AMENITIES, UTILITIES, LANDSCAPING, AND EROSION CONTROL. THE EXISTING SITE WAS AN INDUSTRIAL FACILITY THAT HAS PREVIOUSLY BEEN DEMOLISHED AND FILL PLACED TO PARTIALLY RAISE THE SITE OUT OF THE FLOODPLAIN. DEVELOPMENT OF RIVERBEND ROAD WILL PROVIDE ACCESS AND UTILITIES TO THE SITE ALONG WITH STORMWATER MANAGEMENT.

TENTATIVE CONSTRUCTION SCHEDULE (OPERATOR SHOULD PROVIDE ESTIMATED CONSTRUCTION SCHEDULE TO THE OWNER'S REPRESENTATIVE)	
CONSTRUCTION ACTIVITIES:	ESTIMATED DATES OF SOIL DISTURBANCE ACTIVITIES:
INSTALL TEMPORARY EROSION CONTROL MEASURES	
CLEARING AND GRUBBING OPERATIONS, BUILDING EXCAVATION	
POURING FOUNDATIONS	
INSTALLATION OF SITE UTILITIES	
ROUGH GRADING OF PAVEMENT AREAS	
INSTALL CURB & GUTTER, PAVING	
TOPSOILING	
LANDSCAPING, FINAL TURF, MISC.	

PRE-CONSTRUCTION IMPERVIOUS SURFACE AND DISTURBED AREA CALCULATIONS
TOTAL AREA TO BE DISTURBED = 2.05 ACRES
MINIMUM AREA REQUIREING WPDES PERMIT = 1.00 ACRES
****PROJECT DOES REQUIRE A WPDES PERMIT****
IMPERVIOUS AREA: PRE-CONSTRUCTION = 1.15 ACRES
POST-CONSTRUCTION = 1.49 ACRES

CONTACT INFORMATION/RESPONSIBLE PARTIES
THE OWNER IS THE OWNER CO-PERMITTEE APPLYING FOR PERMIT COVERAGE AND WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL TERMS AND CONDITIONS OF THE PERMIT INCLUDING DEVELOPING THIS EROSION CONTROL PLAN AND THE LONG-TERM MAINTENANCE PLAN OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM FOR THIS PROJECT (IF APPLICABLE). THE OWNER WILL ENSURE THAT THE DESCRIBED WORK IN THE EROSION CONTROL PLAN IS BEING COMPLETED BY THE OPERATOR PERMITTEE.

OWNER/PERMITTEE: WAR EAGLE, LLC
1310 WEST WISCONSIN STREET
SPARTA, WI 54656

THE PRIMARY CONTRACTOR WILL ENTER INTO A CONTRACT WITH THE OWNER TO COMPLETE THE REQUIRED WORK FOR THIS PROJECT. THE PRIMARY CONTRACTOR WILL BECOME (UNDER CONTRACT) THE OPERATOR CO-PERMITTEE APPLYING FOR PERMIT COVERAGE ON THE WPDES, AND THEREBY AGREE TO IMPLEMENT THIS EROSION CONTROL PLAN IN COOPERATION WITH THE OWNER. THE OPERATOR IS RESPONSIBLE FOR IDENTIFYING AN EROSION CONTROL SUPERVISOR PRIOR TO STARTING CONSTRUCTION (REFER TO EROSION CONTROL AMENDMENT SECTION).

THE OPERATOR WILL ENSURE THAT INDIVIDUALS OVERSEEING OR IMPLEMENTING THE EROSION CONTROL PLAN HAVE BEEN PROPERLY TRAINED AND THAT CERTIFICATIONS WILL BE MADE AVAILABLE UPON REQUEST. THIS INCLUDES ANY SUB-CONTRACTORS THAT THE OPERATOR EMPLOYS UNDER SEPARATE CONTRACT. THE OPERATOR WILL PROVIDE THE CONTACT INFORMATION FOR THE EROSION CONTROL SUPERVISOR, SITE SUPERINTENDENT/FOREMAN, AND BMP INSTALLERS. THE EROSION CONTROL SUPERVISOR SHALL BE A RESPONSIBLE EMPLOYEE OF THE PRIME CONTRACTOR AND/OR DULY AUTHORIZED BY THE PRIME CONTRACTOR TO REPRESENT THE PRIME CONTRACTOR ON ALL MATTERS PERTAINING TO THE WPDES CONSTRUCTION STORMWATER PERMIT COMPLIANCE. THE EROSION CONTROL SUPERVISOR SHALL HAVE AUTHORITY OVER ALL OPERATOR ACTIVITIES WHICH INFLUENCE WPDES PERMIT COMPLIANCE, INCLUDING GRADING, EXCAVATION, BRIDGE CONSTRUCTION, CULVERT INSTALLATION, UTILITY WORK, CLEARING/GRUBBING, DEWATERING, AND ANY OTHER OPERATION THAT INCREASES THE EROSION POTENTIAL ON THE PROJECT.

THE OPERATOR WILL PERFORM A PRECONSTRUCTION SITE VISIT TO ADDRESS ANY AREAS OF CONCERN PERTAINING TO ENVIRONMENTAL COMPLIANCE. THE OPERATOR WILL IMPLEMENT AND MAINTAIN BMPs FOR THE DURATION OF CONSTRUCTION PROJECT. THE OPERATOR WILL COMPLETE THE REQUIRED SITE INSPECTIONS.

ISG INC. HAS BEEN CONTRACTED BY THE OWNER TO DEVELOP THE EROSION CONTROL PLAN FOR THIS PROJECT. ISG INC. WILL OFFER GUIDANCE FOR COMPLIANCE WITH THE WPDES PERMIT BEFORE, DURING, AND AFTER CONSTRUCTION OF THE PROJECT.

DESIGNER: ISG INC. 201 MAIN STREET, SUITE 1020 LA CROSSE, WI 54610 608-789-2034	PERMANENT STORMWATER MANAGEMENT DESIGNER: ISG INC. 201 MAIN STREET, SUITE 1020 LA CROSSE, WI 54610 608-789-2034
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EXISTING SITE CONDITIONS, SOILS, & WATER RESOURCES
SOILS AND NATIVE TOPSOIL: NATIVE TOPSOIL WILL BE STRIPPED AND STOCKPILED FOR FINAL GRADING OPERATIONS, WHERE INDICATED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS. METHODS AND EQUIPMENT TO MINIMIZE SOIL COMPACTION (IN PROPOSED INFILTRATION AREAS, DRIP LINE OF TREES TO BE PRESERVED, ETC.) SHALL BE DETERMINED BY THE OPERATOR'S EROSION CONTROL PLAN AMENDMENT. TRACKED VEHICLES ARE PREFERRED AND WHEELED VEHICLES ARE DISCOURAGED IN THESE AREAS. THE ON-SITE SOILS INCLUDE TOPSOIL, SAND FILL WITH UNDERLYING LAYERS OF ORGANIC SOILS AND CLAYSAND LEAN CLAY. REFER TO THE GEOTECHNICAL REPORT INCLUDED WITHIN THE PROJECT SPECIFICATIONS FOR MORE DETAILED SOIL INFORMATION. THE EXISTING SITE INCLUDES VEGETATED AREAS IN POOR TO FAIR CONDITION.

IMMEDIATE RECEIVING WATERS: STORMWATER FROM THIS PROJECT WILL BE CONVEYED TO CITY STORM SEWER STUBBED TO THE SITE AND ULTIMATELY DISCHARGES TO THE BLACK RIVER. A RECEIVING WATERS REVIEW WAS COMPLETED ON 03/14/2024. BASED ON THIS REVIEW THE RECEIVING WATER BLACK RIVER IS AN IMPAIRED WATER, THEREFORE SECTION 4.4 REQUIREMENTS APPLY TO THIS PROJECT.

PERMANENT STORMWATER TREATMENT SYSTEMS
THIS SITE IS A REDEVELOPMENT AND STORMWATER MANAGEMENT IS PROVIDED BY A REGIONAL TREATMENT FACILITY AS PART OF THE RIVER POINT DISTRICT DEVELOPMENT.

POTENTIAL FOR SEDIMENT AND/OR OTHER POLLUTANT(S) DISCHARGING FROM THE PROJECT SITE
THE TEMPORARY EROSION AND SEDIMENT CONTROL BMPs IN THIS EROSION CONTROL PLAN HAVE BEEN DESIGNED TO MINIMIZE THE POTENTIAL OF SEDIMENTS DISCHARGING OFF-SITE FROM A 0.5 INCH RAINFALL WITHIN A 24 HOUR PERIOD. THE NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATE FOR THE PROJECT LOCATION WAS REVIEWED AND USED FOR ANTICIPATED INSPECTION FREQUENCY, BMP DESIGN, AND ESTIMATING CONSTRUCTION ACTIVITIES IN THIS EROSION CONTROL PLAN. ATLAS 14 RESULTS DO NOT NECESSARILY REFLECT ANY DESIGN CRITERIA IN THE PERMANENT STORMWATER MANAGEMENT SYSTEM.

ROUTINE INSPECTION AND BMP MAINTENANCE BY THE OPERATOR IS CRUCIAL IN ENSURING THE FUNCTIONALITY OF EACH BMP. STEEP SLOPES AND OTHER ENVIRONMENTALLY SENSITIVE AREAS THAT ARE AT A HIGHER RISK OF SEDIMENTATION ARE DEFINED IN THIS SWPPP (IF APPLICABLE).

CONSTRUCTION PHASING/STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED
AREAS NOT TO BE DISTURBED ARE TO BE DELINEATED BEFORE WORK BEGINS. PERMITTEES ARE RESPONSIBLE FOR PRESERVING A 75 FOOT NATURAL BUFFER OR (IF INFEASIBLE AND DOCUMENTED) PROVIDE REDUNDANT SEDIMENT CONTROL BMPs. WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET AND RECEIVES DRAINAGE FROM THE PROJECT'S GRADING LIMITS. THIS REQUIREMENT DOES NOT APPLY TO ADJACENT ROADSIDE DITCHES, JUDICIAL/COUNTY DITCHES, STORMWATER CONVEYANCES, STORM DRAIN INLETS, AND SEDIMENT BASINS.

EXISTING VEGETATION SHALL BE PRESERVED WHERE FEASIBLE AND LAND DISTURBING CONSTRUCTION ACTIVITIES SHALL BE STAGED TO LIMIT EXPOSED SOIL AREAS SUBJECT TO EROSION. DISTURBED PORTIONS OF THE CONSTRUCTION SITE ARE TO BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS PRACTICABLE AND SHALL BE INITIATED NO LATER THAN THE END OF THE NEXT WORK DAY FOLLOWING THE DAY EARTH-DISTURBING ACTIVITIES IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. INITIATED STABILIZATION IS DEFINED AS COMPLETING ONE (OR MORE) OF THE FOLLOWING: SOIL PREPARATION FOR VEGETATION, MULCHING (OR OTHER TEMPORARY NON-VEGETATIVE BMP), SEEDING/PLANTING, OR SCHEDULING STABILIZATION MEASURES TO BE FULLY INSTALLED AND COMPLETED AS SOON AS PRACTICABLE.

EROSION AND SEDIMENT CONTROL BMPs
EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE USED TO PREVENT OR REDUCE THE FOLLOWING IN ORDER TO DISCHARGE NO MORE THAN 5 TONS PER ACRE PER YEAR OF SEDIMENT FROM THE DISTURBED AREA.

THE OPERATOR SHALL CLEARLY IDENTIFY THE CONTRACTOR(S) AND SUBCONTRACTOR(S) THAT ARE RESPONSIBLE FOR THE INSTALLATION, OPERATION, AND CONTINUED MAINTENANCE OF ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPs, AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE. UNTIL FINAL STABILIZATION IS ACHIEVED, ALL BMPs MUST BE ADEQUATELY LOCATED, DESIGNED, INSTALLED, AND MAINTAINED TO PREVENT EROSION FROM A MINIMUM 0.5 INCH TOTAL RAINFALL EVENT WITHIN 24 HOURS.

ALL NONFUNCTIONAL BMPs MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPs BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS UNLESS ANOTHER TIME FRAME IS SPECIFIED IN THE EROSION CONTROL PLAN. ALL ERODED MATERIAL THAT LEAVES THE SITE SHALL BE COLLECTED BY THE OPERATOR AND RETURNED TO THE SITE AT THE OPERATOR'S EXPENSE AND INCIDENTAL TO THE PROJECT COST.

TEMPORARY STABILIZATION BMPs SHALL ONLY BE IMPLEMENTED WHEN PERMANENT STABILIZATION BMPs CANNOT BE IMPLEMENTED WITHIN A REASONABLE TIMEFRAME FOR EXPOSED SOILS.

DEWATERING
DEWATERING, STREAM DIVERSION, OR BASIN DRAINING MAY BE REQUIRED DURING CONSTRUCTION OF THIS PROJECT. WHEN DEWATERING IS REQUIRED, THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AND NARRATIVE TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO UNDERTAKING THESE ACTIVITIES. DEWATERING PLAN MUST BE DESIGNED IN ACCORDANCE WITH WI DNR TECHNICAL STANDARD 1081 INCLUDE BMPs TO PREVENT SEDIMENT TRANSPORT, EROSION, AND ADVERSE IMPACTS TO DOWNSTREAM RECEIVING WATERS. THE DEWATERING PLAN MUST ALSO INCLUDE ANY SPECIFIC CHEMICAL TREATMENTS (FLOC, POLYMERS, ETC.) THAT WILL BE USED. THE DEWATERING PLAN AND DNR APPROPRIATIONS PERMIT WILL BECOME PART OF THE EROSION CONTROL PLAN. WATER THAT IS TURBID OR HAS SEDIMENT MUST BE DISCHARGED TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN (AND/OR OTHER APPROPRIATE BMPs) ON THE PROJECT SITE WHENEVER POSSIBLE. DISCHARGE FROM THE TEMPORARY OR PERMANENT SEDIMENTATION BASIN MUST BE VISUALLY CHECKED TO ENSURE ADEQUATE TREATMENT IS OBTAINED IN THE BASIN AND THAT NUISANCE CONDITIONS, IMPACTS TO WETLANDS, AND EROSION IN RECEIVING CHANNELS OR ON DOWNSLOPE PROPERTIES WILL NOT RESULT FROM THE DISCHARGE. THE DISCHARGE MUST BE DISPERSED OVER NATURAL ROCK RIPRAP, SAND BAGS, PLASTIC SHEETING, OR OTHER ACCEPTED ENERGY DISSIPATION MEASURES. ADEQUATE SEDIMENTATION CONTROL MEASURES AND ADDITIONAL FILTRATION BMPs ARE REQUIRED FOR DISCHARGE WATER THAT CONTAINS SUSPENDED SOLIDS, OIL, OR GREASE.

SEQUENCE OF CONSTRUCTION/TIMING OF BMP INSTALLATION
NO CONSTRUCTION OPERATIONS, INCLUDING REMOVALS, THAT REQUIRE EROSION & SEDIMENT CONTROL PER THE EROSION CONTROL PLAN CAN COMMENCE UNTIL THE OPERATOR'S EROSION CONTROL SUPERVISOR CERTIFIES THE PROPER INSTALLATION OF BMPs AND A CHAIN OF RESPONSIBILITY FOR EROSION CONTROL PLAN IMPLEMENTATION IS CREATED FOR ALL OPERATORS ON THE SITE. PERIMETER SEDIMENT CONTROLS (SILT FENCE, INLET PROTECTION, CONSTRUCTION ENTRANCES, ETC.) SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. THESE PRACTICES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ACHIEVED. OPERATOR SHALL IMPLEMENT THE NECESSARY ON SITE BMPs IN ACCORDANCE WITH THE WPDES PERMIT REQUIREMENTS TO PREVENT NUISANCE CONDITIONS FROM ANY DISCHARGES UNDER COVERAGE OF THE WPDES PERMIT. IN SOME CASES, MULTIPLE OR REDUNDANT APPLICATIONS OF SOME BMPs MAY BE NEEDED TO MEET THESE REQUIREMENTS.

TEMPORARY & PERMANENT EROSION PREVENTION BMPs

TEMPORARY/PERMANENT DRAINAGE DITCHES & SWALES: THE NORMAL WETTED PERIMETER (2-YEAR, 24-HOUR PRECIPITATION EVENT) OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH, CHANNEL, OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN THE LAST 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WITHIN 24 HOURS OF CONNECTION. STABILIZATION REMAINING OF THE REMAINING PORTIONS OF THE CHANNEL MUST BE STABILIZED WITHIN 14 DAYS. ALL STORMWATER CONVEYANCE CHANNELS MUST USE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES WITHIN AND ALONG THE LENGTH OF THE CHANNEL AND AT ANY OUTLETS. TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A TEMPORARY SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS HOWEVER MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM. MULCH, HYDROMULCH, TACKIFIER, OR POLYACRYLAMIDE BELOW THE WETTED PERIMETER OF A DITCH, SWALE, OR OTHER SURFACE WATER CONVEYANCE IS NOT ACCEPTABLE STABILIZATION.

EROSION CONTROL BLANKETS/MATS: OPERATOR SHALL VERIFY DURING REGULAR INSPECTIONS THAT NO GULLIES, RILLS, OR SCOUR HOLES HAVE FORMED UNDER EROSION CONTROL BLANKETS AND MATS. ALL REPAIRS MUST BE COMPLETED WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS. USE THE REQUIRED CLASS AND TYPE OF EROSION MAT THE PLANS SHOW OR IS SPECIFIED.

MULCH: OPERATOR MUST APPLY MULCH IN A UNIFORM PATTERN OVER THE DISTURBED SOILS, TO ACHIEVE A MINIMUM OF 90% GROUND COVER.
METHOD A, NETTING: SECURELY ANCHOR MULCHING MATERIAL BY APPROVED NETTING AND PEGS OR STAPLES
METHOD B, TACKIFIER: UTILIZE A TACKIFIER TO TREAT OR APPLY TO THE MULCHING MATERIAL

DUST CONTROL: DUST FROM THE SITE WILL BE CONTROLLED BY INCREASED STREET SWEEPING AND/OR USING A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK TO APPLY POTABLE WATER TO DISTURBED AREAS. THE MOBILE UNIT WILL APPLY WATER AT A RATE NECESSARY TO PREVENT RUNOFF AND PONDING.

STORM SEWER OUTLETS: PIPE OUTLETS MUST HAVE TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS AFTER HYDRAULIC CONNECTION TO A RECEIVING SURFACE WATER.

TEMPORARY WINTER COVER: AREAS OF EXPOSED SOILS THAT ARE NOT COMPLETED BEFORE THE WINTER SHALL BE STABILIZED BEFORE CONSTRUCTION IS COMPLETED FOR THE SEASON.

TEMPORARY & PERMANENT SEDIMENT CONTROL BMPs

DOWNGRADIENT SYSTEMS: IF THE DOWNGRADIENT TREATMENT SYSTEM IS OVERLOADED, ADDITIONAL UP GRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPs MUST BE INSTALLED TO ELIMINATE THE OVERLOADING, AND THE EROSION CONTROL PLAN MUST BE AMENDED TO IDENTIFY THESE ADDITIONAL PRACTICES.

PERIMETER CONTROL BMPs (SILT FENCES, CHIP/SLASH MULCH SACKS, BIOROLLS, FLOATING SILT CURTAIN, ETC.): PERIMETER CONTROL BMPs SHALL BE INSTALLED ON ALL DOWNGRADIENT PERIMETERS AND UPGRADEMENT OF ANY BUFFER AREAS, PRIOR TO INITIATING UPGRADEMENT LAND DISTURBANCE ACTIVITIES. UPLAND PERIMETER CONTROLS BMPs SHALL BE PLACED AS CLOSE AS POSSIBLE TO FOLLOW A SINGLE CONTOUR ELEVATION. ALL PERIMETER CONTROL DEVICES MUST BE REPAIRED, REPLACED, OR MAINTAINED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE. FLOATING SILT CURTAIN SHALL BE INSTALLED AS CLOSE TO THE SHORELINE AS POSSIBLE FOR SHORELAND-IN-WATER SHORT-TERM CONSTRUCTION ACTIVITIES. IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IN THAT AREA IS COMPLETE, AN UPLAND PERIMETER CONTROL MUST BE INSTALLED IF EXPOSED SOILS CONTINUE TO DRAIN TO THE SURFACE WATER.

TEMPORARY SEDIMENTATION BASINS AND TRAPS: THE BASIN INTAKE MUST BE DESIGNED IN ACCORDANCE WITH WI DNR TECHNICAL STANDARD 1063. THE BASIN SHALL WITHDRAW WATER FROM THE SURFACE, PREVENT SHORT CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS, INCLUDE AN EMERGENCY OVERFLOW ABOVE THE LIVE STORAGE ELEVATION, AND PROVIDE ENERGY DISSIPATION AT THE BASIN OUTLET. BASINS MUST BE DRAINED AND SEDIMENT REMOVED WHEN THE DEPTH OF COLLECTED SEDIMENT IN THE BASIN REACHES 1/2 THE LIVE STORAGE VOLUME.

TEMPORARY STOCKPILES: ALL STOCKPILES MUST HAVE SILT FENCE OR EQUIVALENT PERIMETER SEDIMENT CONTROLS IMPLEMENTED AND MAINTAINED AT ALL TIMES. PILES CANNOT BE PLACED IN BUFFER AREAS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE TO PREVENT STORMWATER RUN-ON INTO THE STOCKPILE. STABILIZATION ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS IS NOT REQUIRED.

CONSTRUCTION SITE ENTRANCE/VEHICLE TRACKING: OPERATOR MUST MINIMIZE SEDIMENT FROM LEAVING THE CONSTRUCTION SITE (OR ONTO STREETS WITHIN THE SITE) BY IMPLEMENTING BMPs SUCH AS ROCK PADS, SLASH MULCH, CONCRETE OR STEEL WASH RACKS, OR EQUIVALENT SYSTEMS. STREET SWEEPING MUST BE USED DAILY DURING CONSTRUCTION OPERATIONS IF SUCH BMPs ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES (ON AND OFF-SITE) WITHIN 24 HOURS OF DISCOVERY, OR SOONER AS DIRECTED BY THE PROJECT OWNER. MULTIPLE STREET SWEEPINGS AT THE OPERATOR'S EXPENSE MAY BE REQUIRED ON ALL ENTRY/EXIT POINTS TO THE SITE AT THE DISCRETION OF THE PROJECT OWNER.

SURFACE WATERS: INCLUDING OFF-SITE AND DOWNSTREAM DRAINAGE DITCHES, CATCH BASINS, AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE REMOVAL AND STABILIZATION OF EXPOSED SOILS MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) CALENDAR DAYS OF OBTAINING ACCESS. THE PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AGENCIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK.

INLET PROTECTION: ALL STORM DRAIN INLETS (INCLUDING DOWNGRADIENT, OFF-SITE) MUST BE PROTECTED BY APPROPRIATE BMPs DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. SILT FENCE IS NOT AN ACCEPTABLE CATCH BASIN INLET PROTECTION BMP. CONTRACTOR SHALL CLEAN, REMOVE AND DISPOSE OF SEDIMENT, AND/OR REPLACE STORM DRAIN INLET PROTECTION ON A ROUTINE BASIS TO ENSURE THE DEVICE IS FULLY FUNCTIONAL PRIOR TO THE NEXT FORECASTED PRECIPITATION EVENT (30% OR GREATER). INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (STREET FLOODING/FREEZING) HAS BEEN IDENTIFIED BY THE PERMITTEE(S) OR THE JURISDICTIONAL AUTHORITY (E.G. CITY/COUNTY/TOWNSHIP/DOT ENGINEER). WRITTEN CORRESPONDENCE REGARDING THE NEED FOR REMOVAL MUST BE DOCUMENTED IN THE EROSION CONTROL PLAN.

CHEMICAL TREATMENTS: OPERATOR MUST AMEND THE SWPEROSION CONTROL PLAN TO INCLUDE THE INTENDED USES AND LOCATIONS OF FLOCCULANTS, POLYMERS, AND OTHER SEDIMENTATION TREATMENT CHEMICALS. CHEMICAL TREATMENTS MAY ONLY BE APPLIED IN AREAS WHERE TREATED STORMWATER IS DIRECTED TO A RECEIVING SEDIMENT CONTROL SYSTEM (NOT DIRECTLY DISCHARGED TO NATURAL WATER BODIES). THIS INCLUDES DOCUMENTING THE EXPECTED SOIL TYPES, MANUFACTURER'S RECOMMENDED DOSING, APPLICATION RATES/QUANTITIES, AND MONITORING RESULTS (TURBIDITY, PH).

- POLLUTION PREVENTION MANAGEMENT MEASURES**
THE FOLLOWING PREVENTATIVE MEASURES SHALL BE INCORPORATED:
1. MAINTENANCE OF EXISTING VEGETATION, ESPECIALLY ADJACENT TO SURFACE WATERS WHENEVER POSSIBLE;
 2. MINIMIZATION OF SOIL COMPACTION AND PRESERVATION OF TOP-SOIL;
 3. MINIMIZATION OF LAND DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE;
 4. DEVELOPMENT OF SPILL PREVENTION AND RESPONSE PROCEDURES.

POTENTIAL SOURCES OF UNAUTHORIZED DISCHARGES CONSTRUCTION ACTIVITIES INCLUDE WASTEWATER DISCHARGES FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS AND OTHER POLLUTANTS USED IN VEHICLE OPERATION AND MAINTENANCE; AND SOAPS OR SOLVENTS USED IN VEHICLE AND/OR EQUIPMENT WASHING.

THE PERMITTEE SHALL NOTIFY THE DEPARTMENT OF ANY RELEASE OR SPILL OF A HAZARDOUS SUBSTANCE TO THE ENVIRONMENT IN ACCORDANCE WITH S. 292.11, WIS. STATS., AND CH. CR 706 WIS. ADM. CODE AT (800) 943-0003.

INSPECTIONS & MAINTENANCE

THE OPERATOR MUST INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. THE OPERATOR SHALL PROVIDE A RAINFALL GAUGE ON-SITE, WITHIN ONE MILE OF THE SITE, OR SOURCE OF THE WEATHER REPORTING SYSTEM THAT USES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES. THE LOCATION AND SOURCE OF THE RAINFALL GAUGE OR REPORTING SYSTEM MUST BE DOCUMENTED IN THE FIRST EROSION CONTROL INSPECTION REPORT. ALL MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH TECHNICAL STANDARDS DEVELOPED PURSUANT TO SUBCH. V OF CH. NR 151, WIS. ADM. CODE. ALL

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PROJECT

RIVER POINT K1 SITE

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-C1-EROSION
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
ORIGINAL ISSUE DATE	03/28/2024
CLIENT PROJECT NO.	-

EROSION CONTROL NARRATIVE

SHEET
C1-10

PLOT DATE: 4/22/2024 9:52 AM

PRELIMINARY NOT FOR CONSTRUCTION



INSPECTIONS AND MAINTENANCE CONDUCTED MUST BE RECORDED IN WRITING BY THE OPERATOR AND RETAINED WITH THE EROSION CONTROL PLAN. THE DEPARTMENT HAS DEVELOPED A MODEL INSPECTION REPORT AVAILABLE AT [HTTP://DNR.WI.GOV/TOPI/STORMWATER/CONSTRUCTION/FORMS.HTML](http://DNR.WI.GOV/TOPI/STORMWATER/CONSTRUCTION/FORMS.HTML) OR AVAILABLE UPON REQUEST FOR THE PROJECT OWNER. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:

- DATE, TIME AND EXACT LOCATION OF THE INSPECTION;
- NAME OF PERSON(S) CONDUCTING INSPECTIONS;
- AN ASSESSMENT OF THE CONDITION OF EROSION AND SEDIMENT CONTROLS;
- A DESCRIPTION OF ANY EROSION AND SEDIMENT CONTROL INSTALLATION OR MAINTENANCE PERFORMED IN RESPONSE TO THE INSPECTION;
- DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION AT THE SITE AND ANY SCHEDULE MODIFICATIONS THAT MAY INCREASE SEDIMENT DISCHARGE.

THE OWNER SHALL BE IN CHARGE OF THE LONG-TERM MAINTENANCE OF PERMANENT BMPs.

EROSION CONTROL PLAN AMENDMENTS & RECORD KEEPING

EROSION CONTROL PLAN AMENDMENTS AND SITE PLANS WILL BE PREPARED BY THE OPERATOR AND SUBMITTED TO THE OWNER FOR REVIEW AND WRITTEN APPROVAL BY THE PROJECT OWNER (OR DESIGNATED REPRESENTATIVE). ALL OWNER ACCEPTED AND DENIED EROSION CONTROL PLAN AMENDMENTS AND SITE PLANS MUST BE RECORDED IN WRITING AND RETAINED WITH THE EROSION CONTROL PLAN.

THE EROSION CONTROL PLAN SHALL BE AMENDED IF:

- THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE AT THE CONSTRUCTION SITE, WHICH HAS THE REASONABLE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE EROSION CONTROL AND STORM WATER MANAGEMENT PLANS;
- THERE IS A CHANGE IN THE SEQUENCE, SCHEDULE, OR PHASING OF CONSTRUCTION AT THE CONSTRUCTION SITE WHICH HAS A REASONABLE POTENTIAL TO CAUSE AN EXCEEDANCE OF THE 5 TONS PER ACRE PER YEAR SEDIMENT PERFORMANCE STANDARD;
- THE ACTIONS REQUIRED BY THE EROSION CONTROL AND STORM WATER MANAGEMENT PLANS FAIL TO REDUCE THE IMPACTS OF POLLUTANTS CARRIED BY CONSTRUCTION SITE STORM WATER RUNOFF.

FOR CONSTRUCTION SITES FOR WHICH THERE HAS BEEN EARLIER DEPARTMENT REVIEW OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLANS, IF THE PERMITTEE IDENTIFIES CHANGES NEEDED IN EITHER PLAN, THE PERMITTEE SHALL NOTIFY THE DEPARTMENT AT LEAST 5 WORKING DAYS PRIOR TO MAKING THE CHANGES IN THE PLAN.

THE EROSION CONTROL PLAN (ORIGINAL OR COPIES), ALL CHANGES TO THE EROSION CONTROL PLAN, PROJECT MANUAL, AND INSPECTIONS/MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE OPERATOR WHO HAS OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. THE EROSION CONTROL PLAN CAN BE KEPT IN THE FIELD OFFICE OR ON SITE VEHICLE DURING NORMAL WORKING HOURS. THE PERMITTEE MUST KEEP AND MAKE AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN FIVE DAYS THE EROSION CONTROL PLAN, OTHER STORMWATER RELATED PERMITS, RECORDS OF ALL INSPECTION/MAINTENANCE, ALL PERMANENT OPERATIONS AND MAINTENANCE AGREEMENTS, ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT SYSTEMS AND OTHER INFORMATION REQUIRED BY THE GENERAL PERMIT FOR THREE YEARS FOLLOWING THE NOTICE OF TERMINATION.

NOTICE OF TERMINATION

THE PERMITTEE SHALL SIGN AND SUBMIT A NOTICE OF TERMINATION (NOT) (AVAILABLE THROUGH THE DEPARTMENT AT [HTTP://DNR.WI.GOV/TOPI/STORMWATER/CONSTRUCTION/FORMS.HTML](http://DNR.WI.GOV/TOPI/STORMWATER/CONSTRUCTION/FORMS.HTML)) TO THE DEPARTMENT WITHIN 45 DAYS AFTER FINAL STABILIZATION, REMOVAL OF TEMPORARY EROSION CONTROL BMPs AND ALL LAND DISTURBING CONSTRUCTION ACTIVITY UNDER THIS PERMIT HAVE CEASED.

FINAL STABILIZATION MEANS THAT ALL LAND DISTURBING CONSTRUCTION ACTIVITIES AT THE CONSTRUCTION SITE HAVE BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% OF THE COVER FOR THE UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT PERMANENT STABILIZATION MEASURES.

TERMINATION OF COVERAGE UNDER THIS PERMIT SHALL BE EFFECTIVE UPON THE DEPARTMENT'S WRITTEN CONFIRMATION OF PERMIT TERMINATION TO THE PERMITTEE.

EROSION CONTROL NOTES:

- POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
- INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- WHEN POSSIBLE, PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
- REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT [HTTP://DNR.WI.GOV/TOPI/STORMWATER/STANDARDS/CONST_STANDARDS.HTML](http://DNR.WI.GOV/TOPI/STORMWATER/STANDARDS/CONST_STANDARDS.HTML)
- INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).
- INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060.
- STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.
- PERMITTING OF GROUNDWATER DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR. GROUNDWATER DEWATERING IS SUBJECT TO A DNR WASTEWATER DISCHARGE PERMIT AND A DNR HIGH CAPACITY WELL APPROVAL IF CUMULATIVE PUMP CAPACITY IS TO GPM OR MORE. (REV. FEBRUARY 2017)
- PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DE-WATERING #1061. (REV. FEBRUARY 2017)
- COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528). CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARD SEDIMENT BASIN #1064 AND SEDIMENT TRAP # 1063.
- CONSTRUCT AND PROTECT THE BIODIFFUSION BASIN AND VEGETATION FROM RUNOFF AND SEDIMENT DURING CONSTRUCTION. REFERENCE THE WDNR TECHNICAL STANDARD BIODIFFUSION FOR INFILTRATION # 1004.
- INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
- REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS), LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
- INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS # 1071.
- IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER, BETWEEN SEPTEMBER 15 AND OCTOBER 15. STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE OCTOBER 15 THROUGH COLD WEATHER. STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
- STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
- SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY. SEPARATE SWEEP MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES # 1068.
- PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
- THE CONTRACTOR IS RESPONSIBLE FOR UPDATING THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
- FOR NON-CANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I TYPE A EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WISDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052.
- FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS I TYPE B EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WISDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
- MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE WDNR REMEDIATION AND WASTE MANAGEMENT REQUIREMENTS FOR HANDLING AND DISPOSING OF CONTAMINATED MATERIALS. SITE SPECIFIC INFORMATION FOR AREAS WITH KNOWN OR SUSPECTED SOIL AND/OR GROUNDWATER CONTAMINATION CAN BE FOUND ON WDNR'S BUREAU OF REMEDIATION AND REDEVELOPMENT TRACKING SYSTEM (BRRTS) PUBLIC DATABASE AT: [HTTP://DNR.WI.GOV/BOTW/](http://DNR.WI.GOV/BOTW/)
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SPILL PLAN. REFER TO THIS DOCUMENT IF THERE IS A DISCHARGE OF SEDIMENT AND/OR OTHER CONTAMINANTS. A SPILL PLAN IS REQUIRED IF THERE IS POTENTIAL TO DISCHARGE CONTAMINANTS TO WATERS OF THE STATE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FRAC OUT PLAN IF DRILLING IS TO OCCUR. REFER TO THIS DOCUMENT IF AN INADVERTANT DISCHARGE OF DRILLING FLUIDS ("FRAC OUT") OCCURS. A SPILL PLAN IS REQUIRED IF THERE IS POTENTIAL TO DISCHARGE CONTAMINANTS TO WATERS OF THE STATE.
- INSTALL AND MAINTAIN A CONCRETE WASHOUT BASIN PER EPA 833-F-11-008. [HTTPS://WWW.EPA.GOV/NPDES/PUBS/CONCRETEWASHOUT.PDF](https://www.epa.gov/npdes/pubs/concretewashout.pdf). REQUIRE USE BY ALL CONCRETE CONTRACTORS. LIQUID MAY BE REUSED IN CONCRETE MIXING, EVAPORATED, OR DISPOSED OF AS WASTEWATER.

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PROJECT

**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-C1-EROSION
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
ORIGINAL ISSUE DATE	03/28/2024
CLIENT PROJECT NO.	-

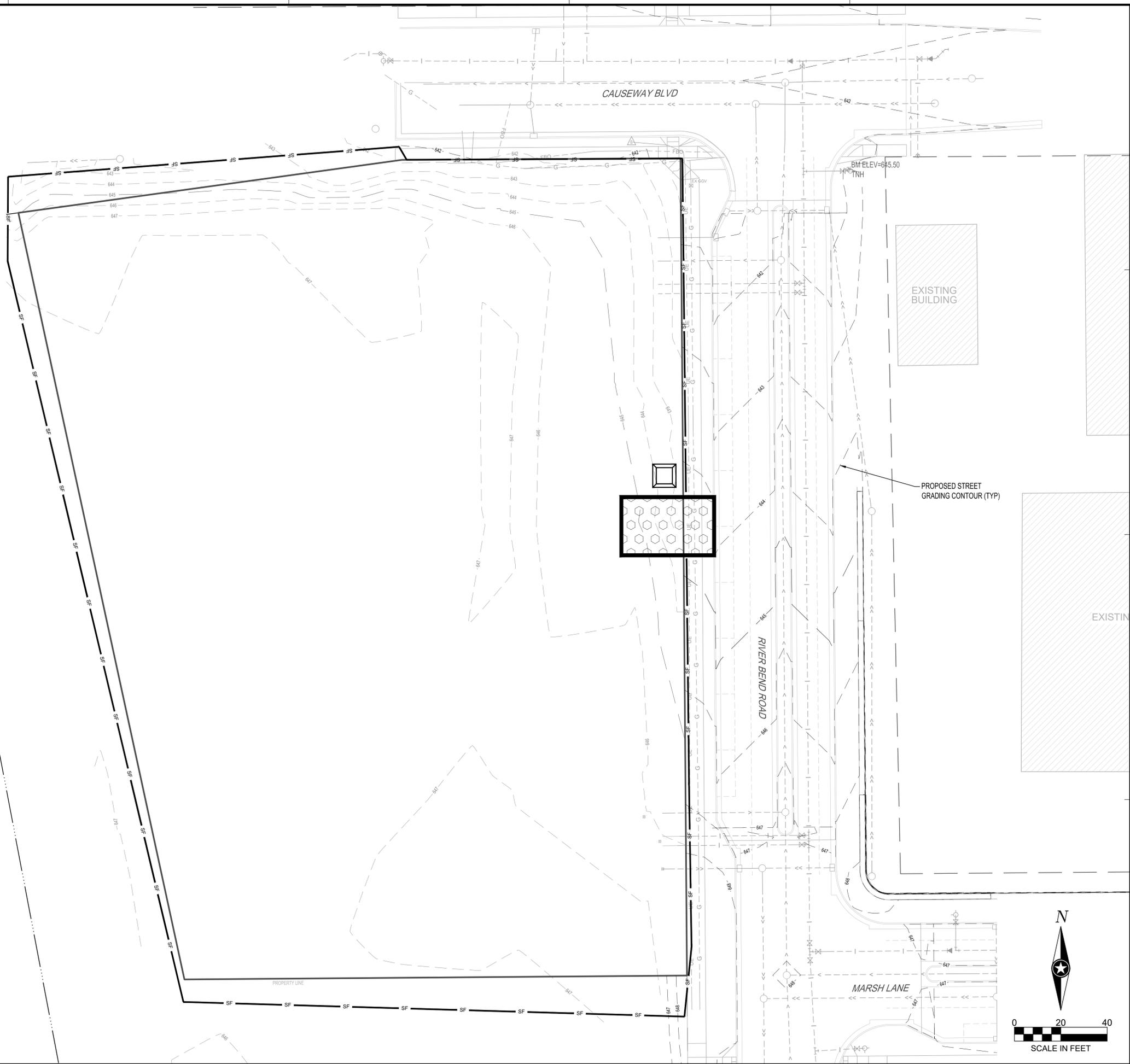
TITLE
EROSION CONTROL NARRATIVE

SHEET
C1-11

EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	SILT FENCE, PREASSEMBLED
	STORM DRAIN INLET PROTECTION
	ROCK CONSTRUCTION EXIT
	CONCRETE WASHOUT AREA
	EXISTING DRAINAGE ARROW
	PROPOSED DRAINAGE ARROW
	EXISTING CONTOUR (MINOR INTERVAL)
	EXISTING CONTOUR (MAJOR INTERVAL)
	PROPOSED STREET GRADING CONTOUR (MINOR INTERVAL)
	PROPOSED STREET GRADING CONTOUR (MAJOR INTERVAL)
	PROPOSED CONTOUR (MINOR INTERVAL)
	PROPOSED CONTOUR (MAJOR INTERVAL)

PERIMETER CONTROL CAN BE SILT FENCE OR SEDIMENT CONTROL LOG.
 SEE SITE RESTORATION PLAN FOR FINAL TURF ESTABLISHMENT.
 NOTE: EROSION CONTROL PLAN COVERAGE INCLUDES ELECTRIC, GAS, TELEPHONE, AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THIS PLAN, INCLUDING PROVIDING THEIR OWN RESTORATION IF INSTALLATION OCCURS AFTER PRIMARY INSTALLATION OF SEEDING/SODDING/MULCHING DURING CONSTRUCTION OF EACH UTILITY.



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PROJECT
**RIVER POINT
 K1 SITE**
 LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 23-30331
 FILE NAME 30331-C1-EROSION
 DRAWN BY BDC
 DESIGNED BY BDC/SMW
 REVIEWED BY KBR
 ORIGINAL ISSUE DATE 03/28/2024
 CLIENT PROJECT NO. -

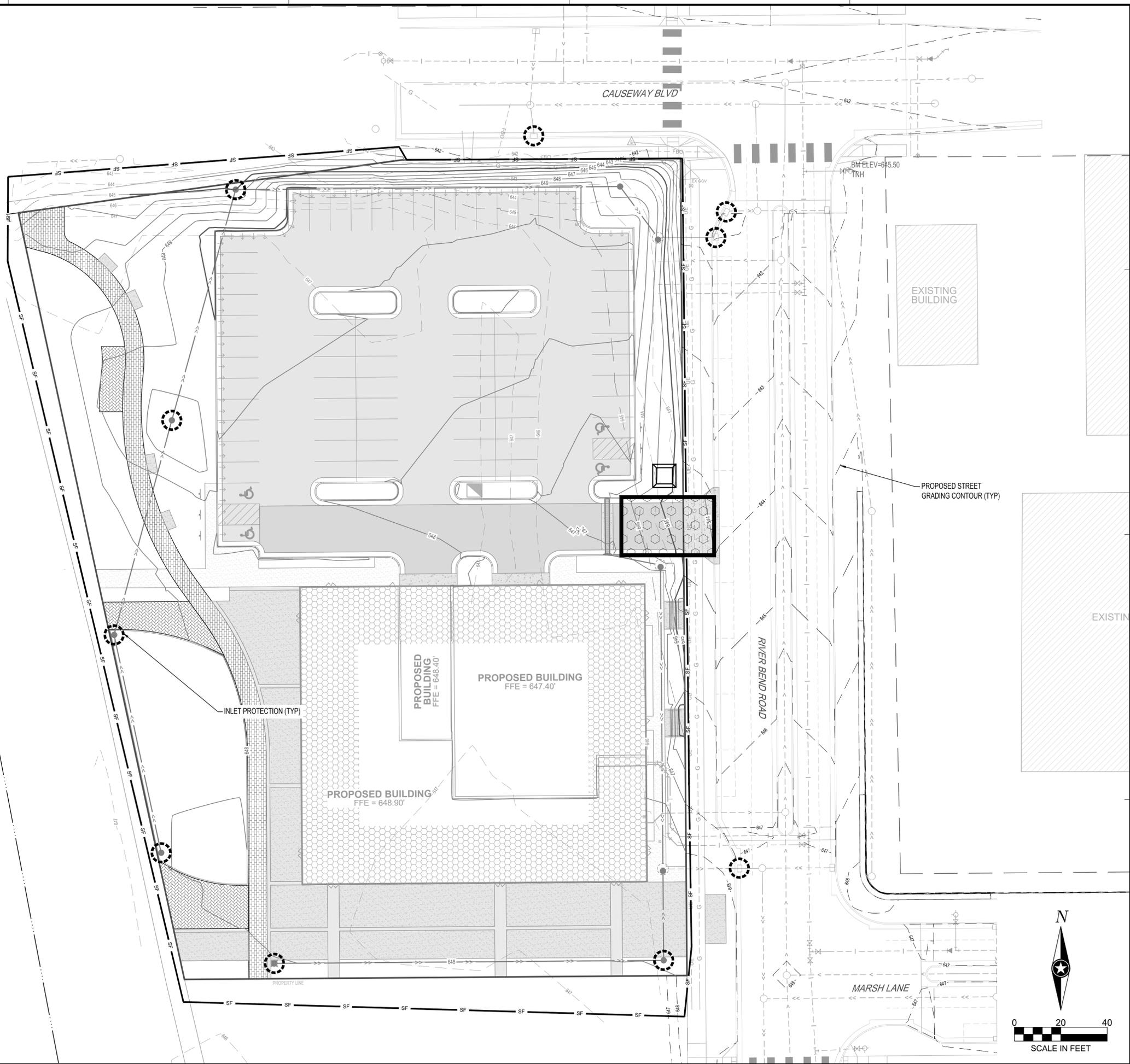
TITLE
**PRE-
 CONSTRUCTION
 EROSION
 CONTROL PLAN**

SHEET
C1-30

EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	SILT FENCE, PREASSEMBLED
	STORM DRAIN INLET PROTECTION
	ROCK CONSTRUCTION EXIT
	CONCRETE WASHOUT AREA
	EXISTING DRAINAGE ARROW
	PROPOSED DRAINAGE ARROW
	EXISTING CONTOUR (MINOR INTERVAL)
	EXISTING CONTOUR (MAJOR INTERVAL)
	PROPOSED STREET GRADING CONTOUR (MINOR INTERVAL)
	PROPOSED STREET GRADING CONTOUR (MAJOR INTERVAL)
	PROPOSED CONTOUR (MINOR INTERVAL)
	PROPOSED CONTOUR (MAJOR INTERVAL)

PERIMETER CONTROL CAN BE SILT FENCE OR SEDIMENT CONTROL LOG.
 SEE SITE RESTORATION PLAN FOR FINAL TURF ESTABLISHMENT.
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**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

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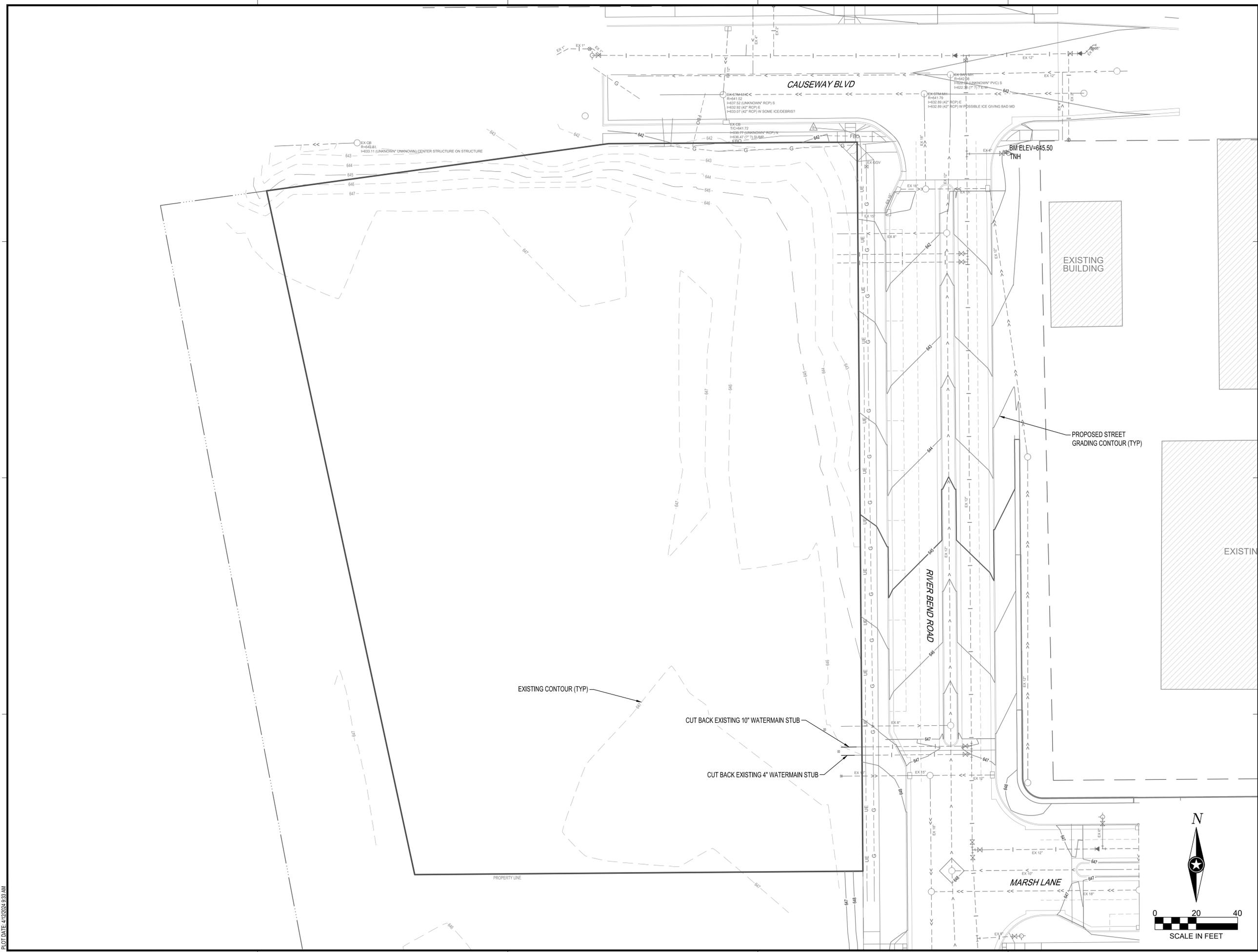
PROJECT NO. 23-30331
 FILE NAME 30331-C1-EROSION
 DRAWN BY BDC
 DESIGNED BY BDC/SMW
 REVIEWED BY KBR
 ORIGINAL ISSUE DATE 03/28/2024
 CLIENT PROJECT NO. -

EROSION CONTROL PLAN

SHEET
C1-40

PLOT DATE: 4/12/2024 9:33 AM

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PROJECT

**RIVER POINT
K1 SITE**

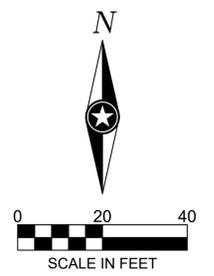
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REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-C2-EXIST
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
ORIGINAL ISSUE DATE	03/28/2024
CLIENT PROJECT NO.	-

TITLE
**EXISTING SITE
AND REMOVAL
PLAN**

SHEET
C2-10



PLOT DATE: 4/12/2024 9:33 AM

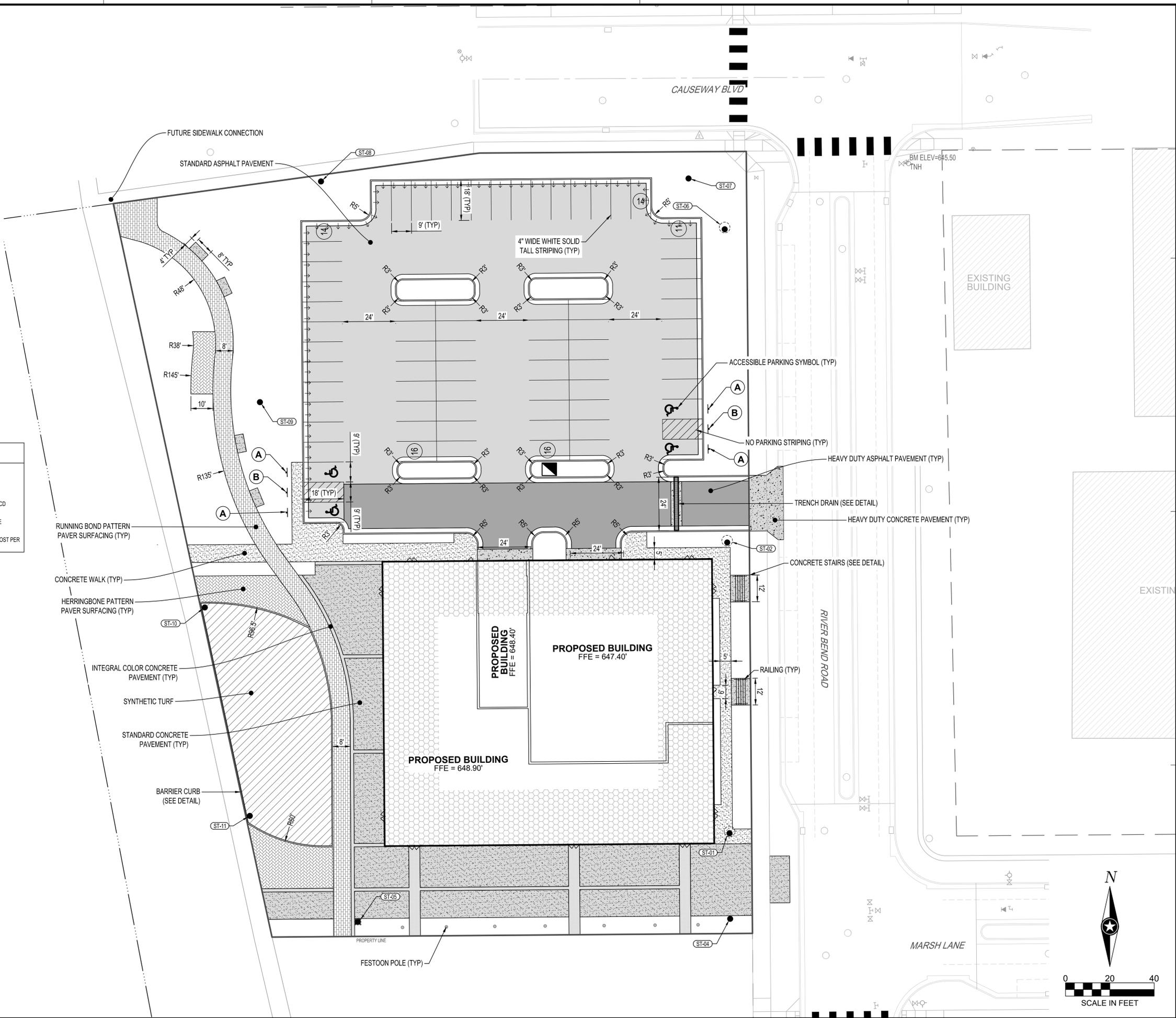
PRELIMINARY NOT FOR CONSTRUCTION

PAVEMENT LEGEND

SYMBOL	DESCRIPTION
	HEAVY DUTY ASPHALT PAVEMENT
	STANDARD ASPHALT PAVEMENT
	HEAVY-DUTY CONCRETE PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE WALK
	INTEGRAL COLOR CONCRETE PAVEMENT
	RUNNING BOND PATTERN PAVER SURFACING
	HERRINGBONE PATTERN PAVER SURFACING
	SYNTHETIC TURF (SEE C5-10)
	DECOMPOSED GRANITE SURFACING
	REVERSE PITCH CONCRETE CURB AND GUTTER

KEY NOTES

- (A) ACCESSIBLE RESERVED PARKING SIGN
- (B) NO PARKING SIGN
- * FURNISH AND INSTALL SIGNS ACCORDING TO WI MUTCD REQUIREMENTS.
- ** SIGNS THAT HAVE MULTIPLE DESIGNATIONS SHALL BE MOUNTED ON THE SAME POST.
- *** ALL SALVAGED SIGNS TO BE REINSTALLED ON NEW POST PER DETAIL.



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PROJECT
**RIVER POINT
 K1 SITE**

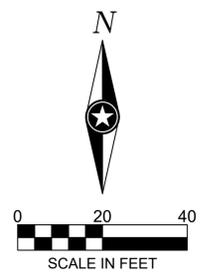
LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 23-30331
 FILE NAME 30331-C3-SITE
 DRAWN BY BDC
 DESIGNED BY BDC/SMW
 REVIEWED BY KBR
 ORIGINAL ISSUE DATE 03/28/2024
 CLIENT PROJECT NO. -

TITLE
SITE PLAN

SHEET
C3-10



PLOT DATE: 4/12/2024 9:23 AM

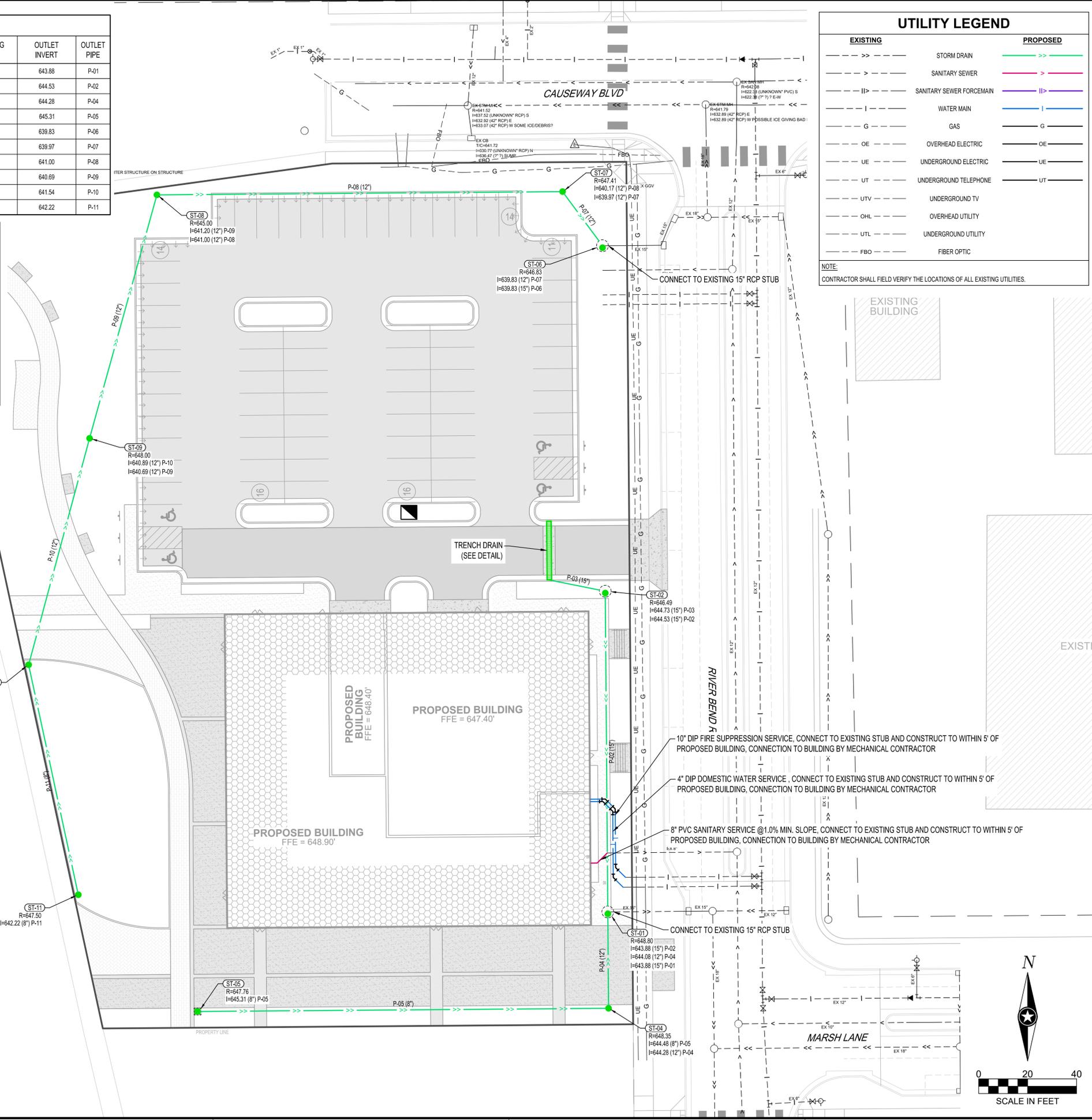
PRELIMINARY NOT FOR CONSTRUCTION

STORM DRAIN STRUCTURE SCHEDULE								
STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	PAY HEIGHT (LN FT)	TOP OF CASTING ELEVATION	OUTLET INVERT	OUTLET PIPE
ST-01	WisDOT MANHOLE	48 Ø	RC	CASTING	4.92	648.80	643.88	P-01
ST-02	WisDOT MANHOLE	48 Ø	RC	CASTING	1.95	646.49	644.53	P-02
ST-04	DRAIN BASIN	12 Ø	PVC	FRAME GRATE COVER	4.08	648.35	644.28	P-04
ST-05	CLEANOUT	8 Ø	PVC	FRAME GRATE COVER	2.45	647.76	645.31	P-05
ST-06	WisDOT MANHOLE	48 Ø	RC	CASTING	6.99	646.83	639.83	P-06
ST-07	DRAIN BASIN	12 Ø	PVC	FRAME GRATE COVER	7.44	647.41	639.97	P-07
ST-08	DRAIN BASIN	12 Ø	PVC	FRAME GRATE COVER	4.00	645.00	641.00	P-08
ST-09	DRAIN BASIN	12 Ø	PVC	FRAME GRATE COVER	7.31	648.00	640.69	P-09
ST-10	DRAIN BASIN	12 Ø	PVC	FRAME GRATE COVER	5.46	647.00	641.54	P-10
ST-11	DRAIN BASIN	8 Ø	PVC	FRAME GRATE COVER	5.28	647.50	642.22	P-11

STORM DRAIN PIPE SCHEDULE									
PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE CLASS	PIPE GRADE	PIPE LENGTH (FT)
P-02	ST-02	644.53	ST-01	643.88	15	PVC	PVC SDR 35	0.50%	131
P-03		644.92	ST-02	644.73	15	PVC	PVC SDR 35	0.80%	23
P-04	ST-04	644.28	ST-01	644.08	12	HDPE	DUAL WALL HDPE	0.50%	39
P-05	ST-05	645.31	ST-04	644.48	8	PERF. HDPE	HDPE	0.50%	168
P-07	ST-07	639.97	ST-06	639.83	12	HDPE	DUAL WALL HDPE	0.50%	27
P-08	ST-08	641.00	ST-07	640.17	12	HDPE	DUAL WALL HDPE	0.50%	166
P-09	ST-09	640.69	ST-08	641.20	12	HDPE	DUAL WALL HDPE	0.50%	103
P-10	ST-10	641.54	ST-09	640.89	12	HDPE	DUAL WALL HDPE	0.68%	95
P-11	ST-11	642.22	ST-10	641.74	8	PERF. HDPE	HDPE	0.50%	96

EXISTING		PROPOSED	
-->>	STORM DRAIN	-->>	STORM DRAIN
->	SANITARY SEWER	->	SANITARY SEWER
- -	SANITARY SEWER FORCEMAIN	- -	SANITARY SEWER FORCEMAIN
- - -	WATER MAIN	- - -	WATER MAIN
-G-	GAS	-G-	GAS
-OE-	OVERHEAD ELECTRIC	-OE-	OVERHEAD ELECTRIC
-UE-	UNDERGROUND ELECTRIC	-UE-	UNDERGROUND ELECTRIC
-UT-	UNDERGROUND TELEPHONE	-UT-	UNDERGROUND TELEPHONE
-UTV-	UNDERGROUND TV	-UTV-	UNDERGROUND TV
-OHL-	OVERHEAD UTILITY	-OHL-	OVERHEAD UTILITY
-UTL-	UNDERGROUND UTILITY	-UTL-	UNDERGROUND UTILITY
-FBO-	FIBER OPTIC	-FBO-	FIBER OPTIC

NOTE:
CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.



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PROJECT
**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 23-30331
FILE NAME 30331-C3-UTILITY
DRAWN BY BDC
DESIGNED BY BDC/SMW
REVIEWED BY KBR
ORIGINAL ISSUE DATE 03/28/2024
CLIENT PROJECT NO. -

TITLE
SITE UTILITY PLAN

SHEET
C3-20

PLOT DATE: 4/12/2024 9:33 AM

PRELIMINARY NOT FOR CONSTRUCTION

RESTORATION SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME
GROUND COVERS		
[Pattern]	10,100 SF	DOUBLE SHREDDED HARDWOOD MULCH / MULCH
[Pattern]	7,367 SF	NATIVE SEED MIX / SHORTGRASS PRAIRIE SEED MIX
[Pattern]	4,368 SF	TURF HYDROSEED / DROUGHT TOLERANT FESCUE BLEND
[Pattern]	4,612 SF	SYNTHETIC TURF
[Pattern]	330 LF	ALUMINUM LANDSCAPE EDGING

ZONING LANDSCAPE REQUIREMENTS

PROPERTY DISTRICT: RIVER POINT DISTRICT - COMMERCIAL & LIGHT INDUSTRIAL

NOTE: BOULEVARD TREES TO BE PLANTED 15' MIN. CLEAR OF FIRE HYDRANTS AND 10' MIN. CLEAR OF WATER SERVICES; EVERY 40' LINEAR LOT FRONTAGE
 • NOT LESS THAN TWO TREES AND EIGHT SHRUBS PER 600 SF OF LANDSCAPED AREA.

SCREENING AND BUFFERS:

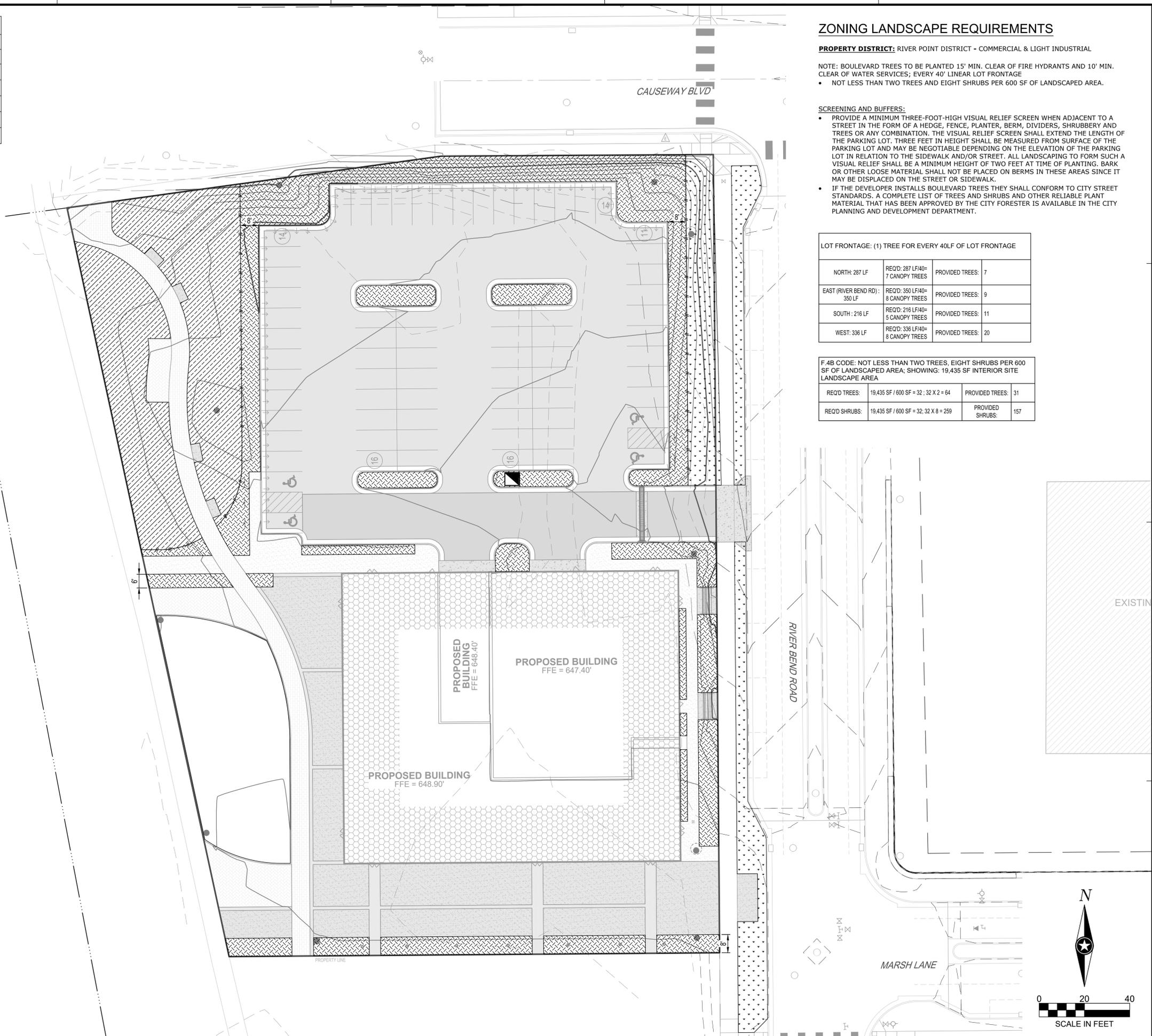
- PROVIDE A MINIMUM THREE-FOOT-HIGH VISUAL RELIEF SCREEN WHEN ADJACENT TO A STREET IN THE FORM OF A HEDGE, FENCE, PLANTER, BERM, DIVIDERS, SHRUBBERY AND TREES OR ANY COMBINATION. THE VISUAL RELIEF SCREEN SHALL EXTEND THE LENGTH OF THE PARKING LOT. THREE FEET IN HEIGHT SHALL BE MEASURED FROM SURFACE OF THE PARKING LOT AND MAY BE NEGOTIABLE DEPENDING ON THE ELEVATION OF THE PARKING LOT IN RELATION TO THE SIDEWALK AND/OR STREET. ALL LANDSCAPING TO FORM SUCH A VISUAL RELIEF SHALL BE A MINIMUM HEIGHT OF TWO FEET AT TIME OF PLANTING. BARK OR OTHER LOOSE MATERIAL SHALL NOT BE PLACED ON BERMS IN THESE AREAS SINCE IT MAY BE DISPLACED ON THE STREET OR SIDEWALK.
- IF THE DEVELOPER INSTALLS BOULEVARD TREES THEY SHALL CONFORM TO CITY STREET STANDARDS. A COMPLETE LIST OF TREES AND SHRUBS AND OTHER RELIABLE PLANT MATERIAL THAT HAS BEEN APPROVED BY THE CITY FORESTER IS AVAILABLE IN THE CITY PLANNING AND DEVELOPMENT DEPARTMENT.

LOT FRONTAGE: (1) TREE FOR EVERY 40LF OF LOT FRONTAGE

Direction	Length (LF)	Req'd: LF/40 =	Req'd: Canopy Trees	Provided Trees
NORTH	287 LF	287 LF/40 = 7.175	7 CANOPY TREES	7
EAST (RIVER BEND RD)	350 LF	350 LF/40 = 8.75	8 CANOPY TREES	9
SOUTH	216 LF	216 LF/40 = 5.4	5 CANOPY TREES	11
WEST	336 LF	336 LF/40 = 8.4	8 CANOPY TREES	20

F.4B CODE: NOT LESS THAN TWO TREES, EIGHT SHRUBS PER 600 SF OF LANDSCAPED AREA; SHOWING: 19,435 SF INTERIOR SITE LANDSCAPE AREA

Req'd	Calculation	Provided
REQ'D TREES:	19,435 SF / 600 SF = 32.39 X 2 = 64.78	PROVIDED TREES: 31
REQ'D SHRUBS:	19,435 SF / 600 SF = 32.39 X 8 = 259.12	PROVIDED SHRUBS: 157



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PROJECT
**RIVER POINT
 K1 SITE**
 LA CROSSE WISCONSIN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO. 23-30331
 FILE NAME 30331-CS-LAND
 DRAWN BY BDC
 DESIGNED BY BDC/SMW
 REVIEWED BY KBR
 ORIGINAL ISSUE DATE 03/28/2024
 CLIENT PROJECT NO. -

TITLE
**RESTORATION
 PLAN**

SHEET
C5-10

PLOT DATE: 4/12/2024 9:24 AM

PRELIMINARY NOT FOR CONSTRUCTION



PRELIMINARY NOT FOR CONSTRUCTION

PLANT SCHEDULE					
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT
TREES					
	AG	4	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / AUTUMN BRILLIANCE APPLE SERVICEBERRY	3" CAL	B & B
	GP	21	GINKGO BILOBA 'PNI 2720' / PRINCETON SENTRY® MAIDENHAIR TREE	3" CAL	B & B
	GI	6	GLEDTISIA TRIACANTHOS INERMIS 'HARVE' / NORTHERN ACCLAIM® HONEY LOCUST	3" CAL	B & B
	GJ	4	GLEDTISIA TRIACANTHOS INERMIS 'JFS GMORGENSONI' / NORTHERN SENTINEL™ HONEY LOCUST	3" CAL	B & B
	PK	3	PHELLODENDRON AMURENSE LAVALLEI 'LONGNECKER' / EYESTOPPER™ CORKTREE	3" CAL	B & B
	PP	15	POPULUS TREMULOIDES 'NE ARB' / PRAIRIE GOLD® QUAKING ASPEN	3" CAL	B & B
	QU	6	QUERCUS MACROCARPA 'JFS-KW3' / URBAN PINNACLE® OAK	3" CAL	B & B
	QX	6	QUERCUS X BIMUNDORUM 'JFS-KW1QX' / STREETSPIRE® OAK	3" CAL	B & B
SHRUBS					
	87		CORNUS HESSEI 'UMN970507' / GARDEN GLOW™ DOGWOOD	5 GAL	CONT
	88		RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	5 GAL	CONT
PERENNIALS					
	35		CALAMAGROSTIS X ACUTIFLORA 'EL DORADO' / EL DORADO FEATHER REED GRASS	1 GAL	CONT
	193		ECHINACEA X 'TNECHKIO' / KISMET® INTENSE ORANGE CONEFLOWER	1 GAL	CONT
	112		NEPETA X WALKER'S LOW / WALKER'S LOW CATMINT	1 GAL	CONT
	77		PANICUM VIRGATUM 'SHENANDOAH' / SHENANDOAH SWITCH GRASS	1 GAL	CONT
	166		RUDBECKIA FULGIDA 'LITTLE GOLDSTAR' / LITTLE GOLDSTAR BLACK-EYED SUSAN	1 GAL	CONT
	372		SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSSEED	1 GAL	CONT

ZONING LANDSCAPE REQUIREMENTS

PROPERTY DISTRICT: RIVER POINT DISTRICT - COMMERCIAL & LIGHT INDUSTRIAL

NOTE: BOULEVARD TREES TO BE PLANTED 15' MIN. CLEAR OF FIRE HYDRANTS AND 10' MIN. CLEAR OF WATER SERVICES; EVERY 40' LINEAR LOT FRONTAGE

- NOT LESS THAN ONE TREE AND 10 SHRUBS PER 610 SF OF LANDSCAPED AREA.

SCREENING AND BUFFERS:

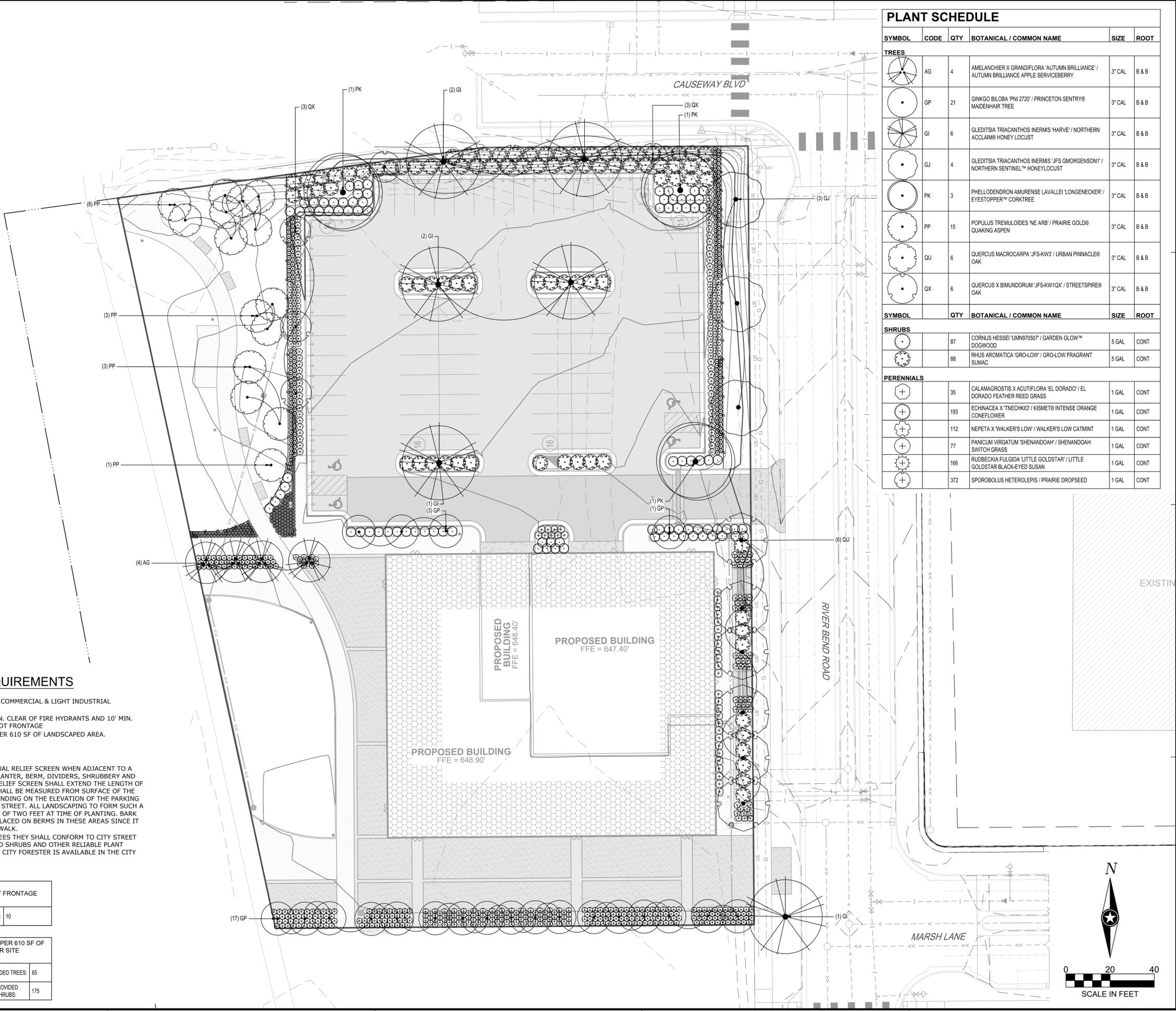
- PROVIDE A MINIMUM THREE-FOOT-HIGH VISUAL RELIEF SCREEN WHEN ADJACENT TO A STREET IN THE FORM OF A HEDGE, FENCE, PLANTER, BERM, DIVIDERS, SHRUBBERY AND TREES OR ANY COMBINATION. THE VISUAL RELIEF SCREEN SHALL EXTEND THE LENGTH OF THE PARKING LOT. THREE FEET IN HEIGHT SHALL BE MEASURED FROM SURFACE OF THE PARKING LOT AND MAY BE NEGOTIABLE DEPENDING ON THE ELEVATION OF THE PARKING LOT IN RELATION TO THE SIDEWALK AND/OR STREET. ALL LANDSCAPING TO FORM SUCH A VISUAL RELIEF SHALL BE A MINIMUM HEIGHT OF TWO FEET AT TIME OF PLANTING. BARK OR OTHER LOOSE MATERIAL SHALL NOT BE PLACED ON BERMS IN THESE AREAS SINCE IT MAY BE DISPLACED ON THE STREET OR SIDEWALK.
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LOT FRONTAGE: (1) TREE FOR EVERY 40LF OF LOT FRONTAGE

EAST (RIVER BEND RD): 350 LF	REQ'D: 350 LF/40= 8 CANOPY TREES	PROVIDED TREES: 10
---------------------------------	-------------------------------------	--------------------

F.4B CODE: NOT LESS THAN 1 TREE, TEN SHRUBS PER 610 SF OF LANDSCAPED AREA; SHOWING: 19,435 SF INTERIOR SITE LANDSCAPE AREA

REQ'D TREES: 19,435 SF / 610 SF = 32 ; 32 + 10 (RIVER BEND RD) = 42	PROVIDED TREES: 65
REQ'D SHRUBS: 19,435 SF / 610 SF = 32; 32 X 10 = 320	PROVIDED SHRUBS: 175



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PROJECT
**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

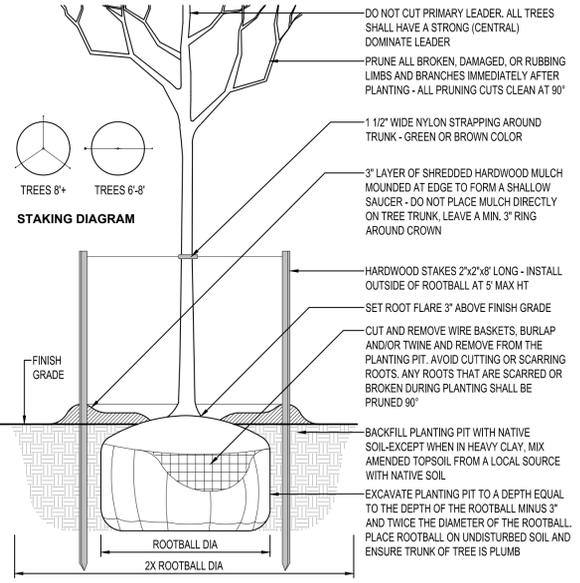
REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 23-30331
FILE NAME 30331-C5-LAND
DRAWN BY BDC
DESIGNED BY BDC/SMW
REVIEWED BY KBR
ORIGINAL ISSUE DATE 03/28/2024
CLIENT PROJECT NO. -

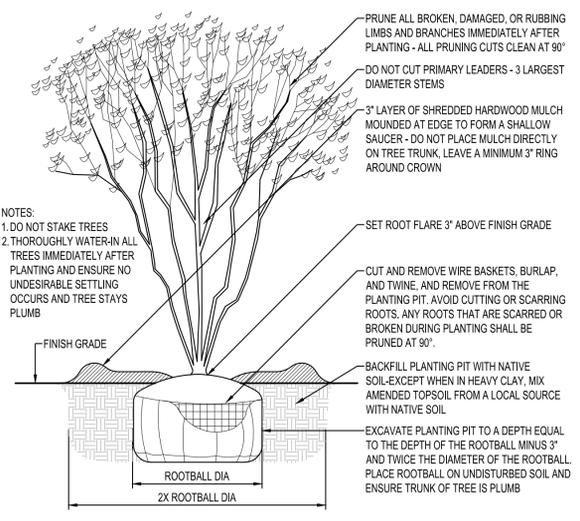
TITLE	
PLANTING PLAN	

SHEET
C5-20

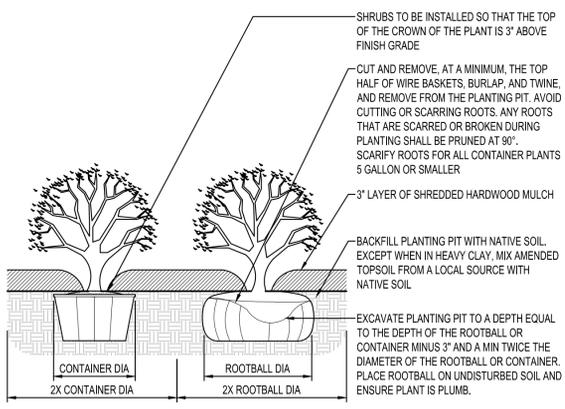
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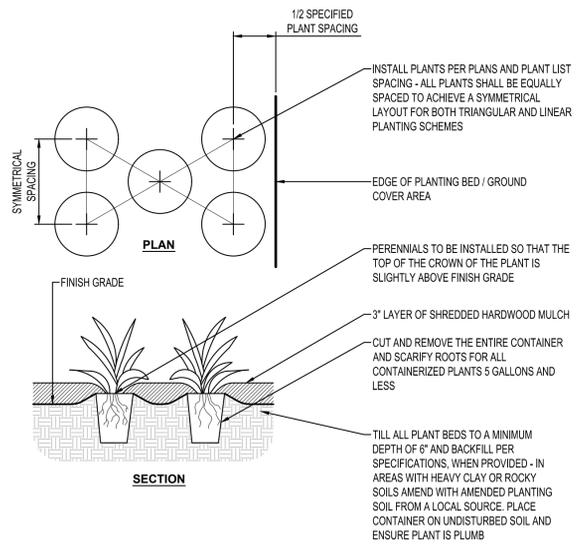
DECIDUOUS TREE PLANTING
NTS



MULTI-STEM TREE PLANTING
NTS



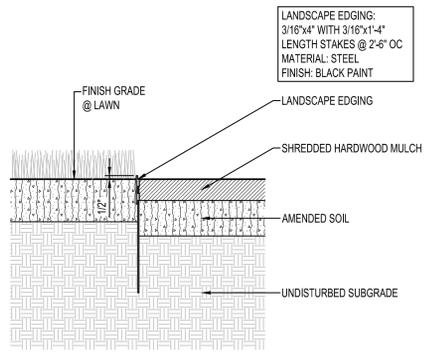
SHRUB PLANTING
NTS



PERENNIAL PLANTING
NTS

PLANTING NOTES

- COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (FENCE, FOOTINGS, TREE ROOTBALLS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
- SAVE AND PROTECT ALL EXISTING TREES NOT NOTED TO BE REMOVED.
- REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
- REFER TO PLANTING DETAILS FOR AMENDED SOIL DEPTH IN PLANTING BEDS AND SURROUNDING TREES.
- FIELD STAKE PLANTINGS ACCORDING TO PLAN. OWNER'S REPRESENTATIVE SHALL APPROVE ALL PLANT LOCATIONS PRIOR TO INSTALLATION. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REVISE PLANTING LAYOUT AT TIME OF INSTALLATION.
- ALL PLANT MATERIALS SHALL BE TRUE TO THEIR SCIENTIFIC NAME AND SIZE AS INDICATED IN THE PLANT SCHEDULE.
- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE SCHEDULE, THE PLANTING PLAN SHALL GOVERN.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIALS MUST CONFORM TO AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1), LATEST EDITION PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON D.C. LARGER SIZED PLANT MATERIALS OF THE SPECIES LISTED MAY BE USED IF THE STOCK CONFORMS TO ANSI Z60.1.
- ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN A LIVE AND HEALTHY GROWING CONDITION FOR ONE FULL GROWING SEASON (ONE YEAR) AFTER FINAL PROJECT ACCEPTANCE OR SHALL BE REPLACED BY THE CONTRACTOR FREE OF CHARGE WITH THE SAME GRADE AND SPECIES.
- ALL TREES SHALL HAVE A STRONG CENTRAL LEADER. ANY TREES DEEMED NOT TO HAVE A STRONG CENTRAL LEADER SHALL BE REJECTED.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO CONSTRUCTION OPERATIONS. ANY AREAS THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE SHREDDED HARDWOOD MULCH SURROUNDING ALL PROPOSED TREES (5' Ø) AND WITHIN PLANTING BEDS TO A 3" MINIMUM DEPTH AS SHOWN IN TREE PLANTING DETAIL. DO NOT USE AN UNDERLAYMENT SUCH AS PLASTIC SHEET OR LANDSCAPE FABRIC. APPLY PRE-EMERGENT TO ALL PLANTING BEDS PRIOR TO MULCHING. REFER TO PLANS FOR ADDITIONAL DETAILS. REFER TO STORMWATER DETAILS FOR BASIN CONSTRUCTION AND MULCH APPLICATION.
- MULCHING MATERIAL SHALL BE SHREDDED HARDWOOD MULCH, WITH NO INDIVIDUAL PIECES LARGER THAN 3", FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS, 3" MINIMUM DEPTH. MINIMUM DEPTHS AT LOCATIONS INDICATED ON DRAWINGS.
- CONTRACTOR SHALL PROVIDE SAMPLE OF MULCH TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
- INDICATED QUANTITIES ARE ESTIMATES AND SHALL BE CONFIRMED BY THE CONTRACTOR.
- ADJUST SPACING OF PLANT MATERIALS AROUND ADJACENT UTILITY STRUCTURES.



LANDSCAPE EDGING
NTS

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PROJECT

**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-CS-LAND
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
ORIGINAL ISSUE DATE	03/28/2024
CLIENT PROJECT NO.	-

TITLE

**LANDSCAPE
DETAILS**

SHEET

C5-30

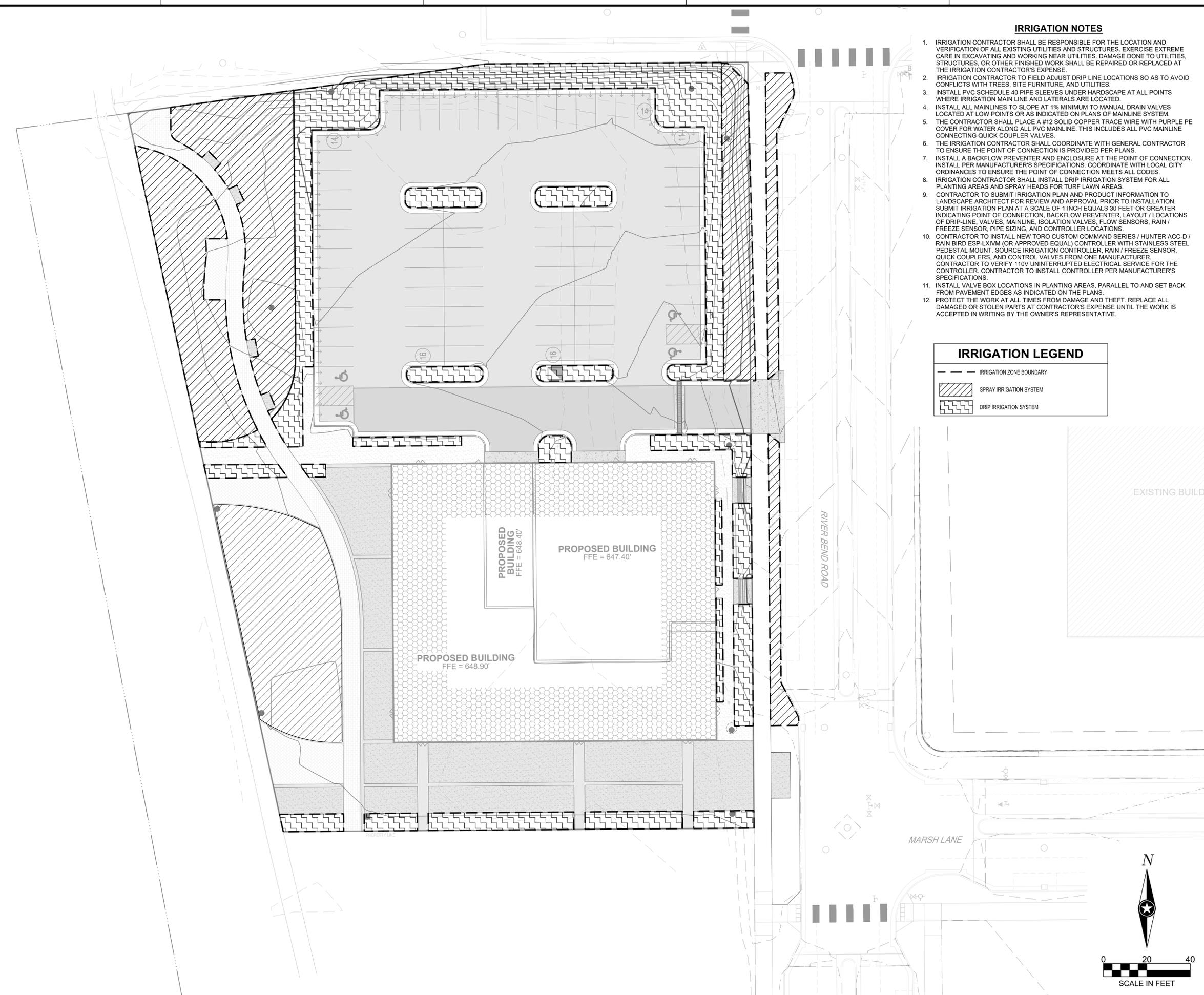


IRRIGATION NOTES

- IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND VERIFICATION OF ALL EXISTING UTILITIES AND STRUCTURES. EXERCISE EXTREME CARE IN EXCAVATING AND WORKING NEAR UTILITIES. DAMAGE DONE TO UTILITIES, STRUCTURES, OR OTHER FINISHED WORK SHALL BE REPAIRED OR REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE.
- IRRIGATION CONTRACTOR TO FIELD ADJUST DRIP LINE LOCATIONS SO AS TO AVOID CONFLICTS WITH TREES, SITE FURNITURE, AND UTILITIES.
- INSTALL PVC SCHEDULE 40 PIPE SLEEVES UNDER HARDSCAPE AT ALL POINTS WHERE IRRIGATION MAIN LINE AND LATERALS ARE LOCATED.
- INSTALL ALL MAINLINES TO SLOPE AT 1% MINIMUM TO MANUAL DRAIN VALVES LOCATED AT LOW POINTS OR AS INDICATED ON PLANS OF MAINLINE SYSTEM.
- THE CONTRACTOR SHALL PLACE A #12 SOLID COPPER TRACE WIRE WITH PURPLE PE COVER FOR WATER ALONG ALL PVC MAINLINE. THIS INCLUDES ALL PVC MAINLINE CONNECTING QUICK COUPLER VALVES.
- THE IRRIGATION CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THE POINT OF CONNECTION IS PROVIDED PER PLANS.
- INSTALL A BACKFLOW PREVENTER AND ENCLOSURE AT THE POINT OF CONNECTION. INSTALL PER MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH LOCAL CITY ORDINANCES TO ENSURE THE POINT OF CONNECTION MEETS ALL CODES.
- IRRIGATION CONTRACTOR SHALL INSTALL DRIP IRRIGATION SYSTEM FOR ALL PLANTING AREAS AND SPRAY HEADS FOR TURF LAWN AREAS.
- CONTRACTOR TO SUBMIT IRRIGATION PLAN AND PRODUCT INFORMATION TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. SUBMIT IRRIGATION PLAN AT A SCALE OF 1 INCH EQUALS 30 FEET OR GREATER INDICATING POINT OF CONNECTION, BACKFLOW PREVENTER, LAYOUT / LOCATIONS OF DRIP-LINE, VALVES, MAINLINE, ISOLATION VALVES, FLOW SENSORS, RAIN / FREEZE SENSOR, PIPE SIZING, AND CONTROLLER LOCATIONS.
- CONTRACTOR TO INSTALL NEW TORO CUSTOM COMMAND SERIES / HUNTER ACC-D / RAIN BIRD ESP-LXIVM (OR APPROVED EQUAL) CONTROLLER WITH STAINLESS STEEL PEDESTAL MOUNT. SOURCE IRRIGATION CONTROLLER, RAIN / FREEZE SENSOR, QUICK COUPLERS, AND CONTROL VALVES FROM ONE MANUFACTURER. CONTRACTOR TO VERIFY 110V UNINTERRUPTED ELECTRICAL SERVICE FOR THE CONTROLLER. CONTRACTOR TO INSTALL CONTROLLER PER MANUFACTURER'S SPECIFICATIONS.
- INSTALL VALVE BOX LOCATIONS IN PLANTING AREAS, PARALLEL TO AND SET BACK FROM PAVEMENT EDGES AS INDICATED ON THE PLANS.
- PROTECT THE WORK AT ALL TIMES FROM DAMAGE AND THEFT. REPLACE ALL DAMAGED OR STOLEN PARTS AT CONTRACTOR'S EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER'S REPRESENTATIVE.

IRRIGATION LEGEND

- IRRIGATION ZONE BOUNDARY
- [Hatched Box] SPRAY IRRIGATION SYSTEM
- [Grid Box] DRIP IRRIGATION SYSTEM



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PROJECT
**RIVER POINT
 K1 SITE**

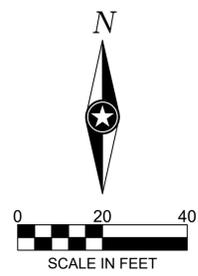
LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 23-30331
 FILE NAME 30331-CS-LAND
 DRAWN BY BDC
 DESIGNED BY BDC/SMW
 REVIEWED BY KBR
 ORIGINAL ISSUE DATE 03/28/2024
 CLIENT PROJECT NO. -

TITLE
IRRIGATION PLAN

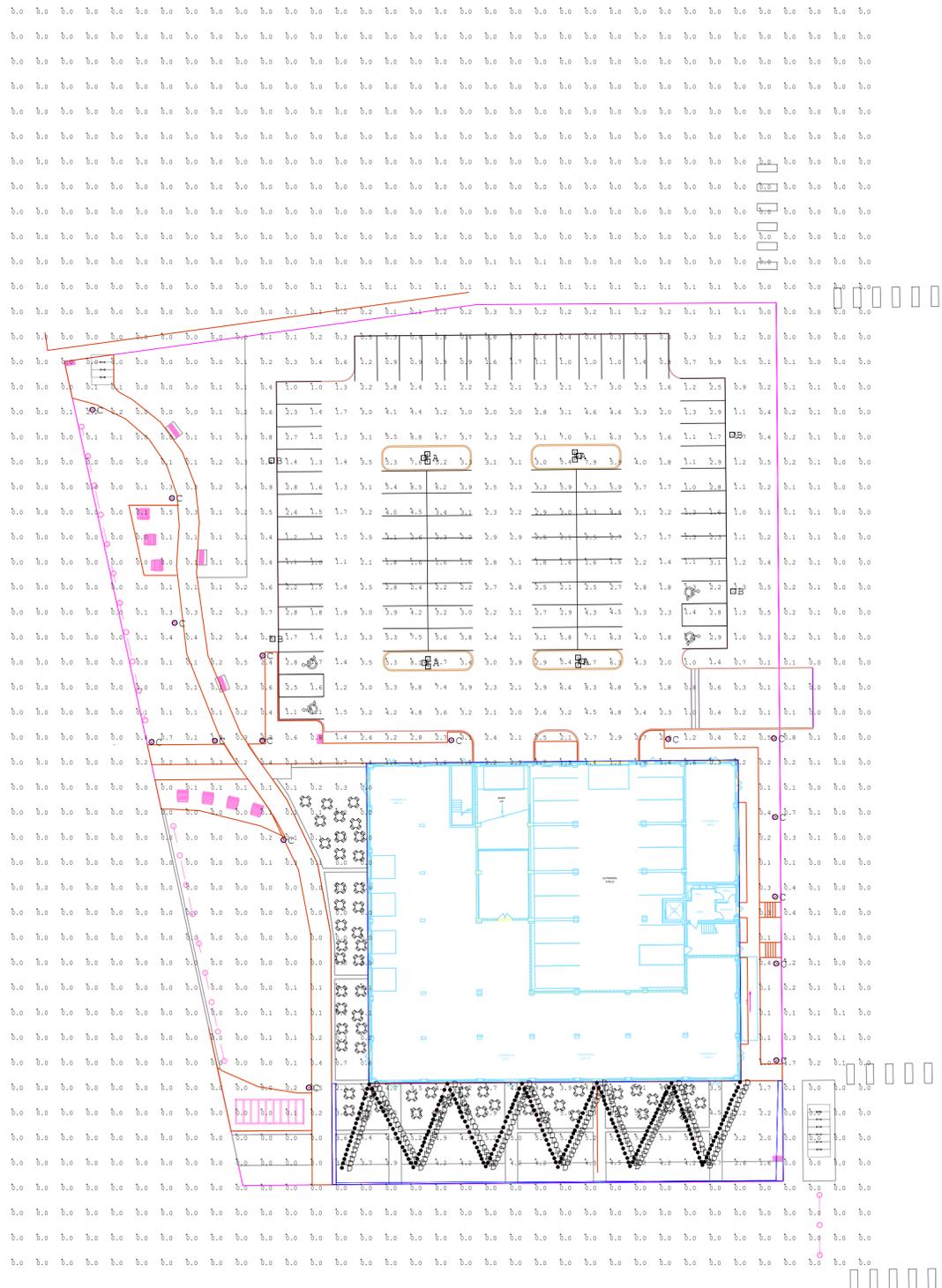
SHEET
C5-50



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PROJECT
**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

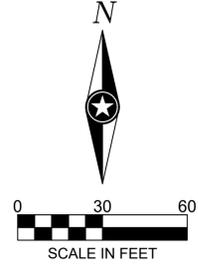
PROJECT NO. 23-30331
 FILE NAME 30331-E2-LIGHT
 DRAWN BY BDC
 DESIGNED BY BDC/SMW
 REVIEWED BY KBR
 ORIGINAL ISSUE DATE 03/28/2024
 CLIENT PROJECT NO. -

TITLE
**PHOTOMETRIC
PLAN**

SHEET
E2-00

CALCULATION SUMMARY							
Label	Calc Type	Units	Avg	Min	Max	Avg/Min	Max/Min
PARKING LOT	ILLUMINANCE	FC	2.93	1.1	9.8	2.66	8.91

LIGHT FIXTURE SCHEDULE										
Label	Manufacturer	Catalog Number	Description	Lamp	Mounting/Pole Height	Lamp Lumens	LLF	Watts (120-277V)	Quantity	Remarks
A	ARCHITECTURAL AREA LIGHTING (CURRENT)	SLD2-PM-25-NL-80L-70-3K7-4F-UNV-CTS	LED DECORATIVE PENDANT AREA LIGHT	LED	18'	7800	0.9	69	12	THREE FIXTURES AT 90 DEGREE ORIENTATIONS.
B	ARCHITECTURAL AREA LIGHTING (CURRENT)	SLD2-PM-25-NL-80L-25-3K7-2-UNV-BC-CTS	LED DECORATIVE PENDANT AREA LIGHT	LED	18'	3300	0.9	25	4	
C	FORMS/SURFACES	LBLCB-604-RGBW	BOLLARD	LED	N/A	520	0.9	11.4	16	
D	TIVOLI	STRING: TCSSL-S-X-24-120 ENGINE: ALS-TF-T25-E26-4W-XXK-6PK-R	STRING CATENARY LIGHT	LED	10'	400/ENGINE	0.9	4/ENGINE	212	



PLOT DATE: 4/22/24 9:24 AM

FEATURES

- Versatile, transitional designed decorative luminaire, created to yield the ultimate in flexibility in LED point-to-point and ceiling lighting.
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction.
- Shade and ring options available to enhance the product design and match any application.
- Frosted lens option available based on light and glare concerns. Lens option is also available as optical chamber is completely sealed.



slide



Slide Pendant Mount

WEIGHT	EPA (FT2) TOTAL
SLD2 20 lbs (1170 lbs)	0.66-1.52

SPECIFICATIONS

CONSTRUCTION

- Driver housing is made of die-cast aluminum.
- Shade shall be made from a one-piece aluminum spinning.
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish.
- For pendant and ceiling configurations, the housing is designed to be mounted in place with a stainless steel safety pin and then permanently held in place with four stainless steel bolts.
- External hardware is stainless steel.
- Optical frosted lens is made from a durable acrylic material.

- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shades can be added for further reduction of illumination behind the pole.
- One-piece silicone gasket ensures a weatherproof seal.
- No lens configurations are full cutoff with zero spill light.
- All optics are field and factory rotatable.
- Listed to UL 598B and CSA 22.2 49500-24 for wet locations and 40°C ambient temperature.

CONTROLS

- 0-10V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 18" standard.
- The housing is designed for an optional twist lock photo control receptacle.

CERTIFICATIONS

- Listed to UL 598B and CSA C22.2 49500-24 for wet locations and 40°C ambient temperatures.
- 15.0 listed for ANSI C136.31 high vibration applications.
- Luminaire light engine is IP65 rated.
- Meets DA recommendations using 3K CCT configuration with no flicker.
- This product qualifies as a "designated country construction material" per FAR 82.225. It Buy American Construction Materials under Trade Agreements effective 04/23/2020.

WARRANTY

- 5 year warranty

ORDERING GUIDE

Example: SLD2-PM-25-AF-801-25-4K7-2-LINVBLS

Series	Mounting	Style	Lens	# LEDs	Wattage	CCT/BI	Distribution	Voltage				
SLD2	PM	Pendant Mount	25	2 Strut	48	4 Strut	AF Acrylic Frosted No Lens	Micro Strike	AM Amber Monochrome*	2	Type 2	UNV (20-277VAC)
								BOL-25	AP Amber Phosphor Converter**	3	Type 3	300V
								BOL-50	270K 2700K 80CR	4F	Type 4 Forward	ABV
								BOL-70	3000K 3000K 80CR	5W	Type 5 Square Wide	
								BOL-90	350K 3500K 80CR	2	Type 2	
								516**	350K 3500K 80CR	3	Type 3	
								8L-25	400K 4000K 80CR	4W	Type 4 Wide	
								8L-39	500K 5000K 70CR	4F	Type 4 Forward	
								8L-50	500K 5000K 70CR	5W	Type 5 Square Wide	
								8L-70	500K 5000K 80CR	FR	Front Row	
									80L only	SW	Type 5 Wide	
									80L only	SN	Type 5 Square Narrow	
	80L only	SM	Type 5 Square Medium									
	80L only	SW	Type 5 Rectangular									
	80L only	C	Corner Court									

Options	Shade Options	Decorative Options	Protocolor	Programmed Controls	Colors
BC Backlight Control	CTS Current Shade	DR 3 Decorative	PC Button Protocol	ADD AutoDim Time Based Dimming	BLS Black Glass Smooth
TS Terminal Block	STS Slatted Shade			AUT AutoDim Time of Day Dimming	BET Black Matte Textured
CD Conduid Dimming	FBS Flat Shade				DBS Dark Bronze Glass Smooth
	NS No Shade				DBT Dark Bronze Matte Textured
					DTT Dimple Matte Textured
					LGS Light Gray Glass Smooth
					LGT Light Gray Matte Textured
					PSB Platinum Silver Glass Smooth
					VGT Verde Green Matte Textured
					WHS White Glass Smooth
					WMT White Matte Textured
					Color Options
					CC Custom Color



LIGHT COLUMN BOLLARD

PROJECT DATA



LIGHT COLUMN BOLLARD

PROJECT DATA

Light Column Bollards integrate into a wide range of settings and offer numerous design possibilities. Sleek in stainless steel, bollard columns are available in 5" or 6" diameters. Illumination options include LED lamps in white or RGBW, and multiple ways to direct light: no shield for symmetrical lighting, or 180° and 360° shields in standard or custom designs. Non-illuminated and security core variations, and matching Light Column Pathway Bollards and Light Column Pedestal Lighting, make it easy to create a cohesive look across functionalities.

MATERIAL & CONSTRUCTION DETAILS

CONSTRUCTIONS	MATERIALS & FINISHES	LED LAMPS & DRIVER
<ul style="list-style-type: none"> Light Column Bollards are available in two sizes. Series 500 columns are 5" (127 mm) diameter tubular stainless steel. Series 600 columns are 6" (152 mm) diameter tubular stainless steel. To complement the illuminated bollard, a non-illuminated version is also available in both Series 500 and Series 600. Bollards can be specified with a removable base, with the exception of the RGBW option. Weather resistant EPD outlet for maintenance access is available for Series 600, illuminated, non-RGBW, non-security bollards. 	<ul style="list-style-type: none"> Illuminated bollards have a tubular stainless steel column, white-frosted acrylic lens, and a stainless steel head cap. Non-illuminated bollards are tubular stainless steel with welded stainless steel cap. Stainless steel is standard with a Satin Finish and Ceramic Treatment. See below for details. For optional powdercoat colors see the Forms+Surfaces Powdercoat Chart. Custom PSL colors are available for an upcharge. 	<ul style="list-style-type: none"> Custom LED light engine with Cree® LEDs. Features advanced LED technology with 3000K warm white and 4000K natural white LEDs. 10W LED driver input power is 120-277V, -30°C starting temperature. Driver has forward-phase, reverse-phase and 0-10V dimming capabilities. LED driver certifications include: IP66 weatherproof enclosure, and Class 2 rated output (UL8750).
<ul style="list-style-type: none"> Directional shields are available for Series 500 and Series 600 illuminated and RGBW bollards. Four standard shield designs are available for an upcharge. Refer to page 2 for details. Custom shield designs with either 180° or 360° coverage are also available. 	<ul style="list-style-type: none"> Series 500, illuminated: 30 lbs (14 kg), non-illuminated: 32-33 lbs (15 kg) Series 600, illuminated: 34 lbs (15 kg), non-illuminated: 34-39 lbs (15-18 kg) Series 600, deep set security core, illuminated: 170 lbs (77 kg), non-illuminated: 177 lbs (80 kg) 	<ul style="list-style-type: none"> RGBW LED board utilizing Cree® LEDs. RGBW, 4000K white, and dynamic white via DMX512 protocol and onboard decoder interface. Controller to be provided by others. 96W LED driver with 100-277V input power, -30°C starting temperature. LED driver certifications include: IP66 weatherproof enclosure, and Class 2 rated output (UL8750).
<p>DERMAMIC TREATMENT</p> <p>Ceramic is an invisible surface treatment that offers significantly enhanced protection from weather and graffiti and increases the maintenance ease of stainless steel. Ceramic combines ceramic durability with an unparalleled ability to lock out water spots, fingerprints, graffiti and more. Patented technology bonds nano-silica particles to the surface of the stainless steel. The treatment minimally alters the surface appearance of the stainless and offers numerous benefits:</p> <ul style="list-style-type: none"> Easily Cleaned: The Ceramic treatment creates a surface that simultaneously resists fingerprints and is easy to clean. Water spots, grease marks and more can be quickly wiped away. It also creates an "anti-graffiti" surface - even permanent marker is easily removed with a clean microfiber towel and water. Durable: Ceramic-treated materials are abrasion- and scratch-resistant. The treatment is permanent, UV stable, and will not degrade or discolor over time. Environmentally Sound: The Ceramic treatment is a no-VOC, water-based process. Because Ceramic surfaces are so easily maintained, cleaning solutions and maintenance are kept to a minimum. 	<p>INSTALLATION & MAINTENANCE</p> <p>INSTALLATION</p> <ul style="list-style-type: none"> Standard mounting is surface mount with 1/2" x 1 1/8" J-bolt anchors. 1/2" thick stainless steel base plate is slotted for rotational capability. Light Column Bollards, Series 600, in both illuminated and non-illuminated designs are available with an optional embedded security core that accommodates two mounting styles: deep set mounting achieves an S10-P1 security rating; shallow mounting achieves an S30-P1 security rating. All bollards, except for the RGBW option, can be specified with a removable base. RGBW bollards are connected via a daisy-chained hard-wired control signal in and out of each bollard. Installation of a surge protector as part of each unit's wiring is recommended. Stainless steel mounting hardware sold separately. Templates are available upon request. <p>T 800.451.0410 www.forms-surfaces.com</p>	<p>MAINTENANCE</p> <ul style="list-style-type: none"> Metals surfaces can be cleaned as needed using a soft cloth or brush with warm water and a mild detergent. Avoid abrasive cleaners.

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TYPE A AND B

TYPE C



ADAPT
COMMERCIAL STRING LIGHT



ADAPT Commercial String Light

Order Information - String and Light Engine



COMMERCIAL STRING
TCSL-S-X-24-120
X = B (black), W (white)
48" Commercial string/cord, 24" O.C.
with molded male and female end.

ALS-TP-725-E26-4W-XXX-4PK-R
XXX = 27K (2700K), 300K (3000K)
Filament Light Engine
Sold as 4 Pack with 11" rubber O-Ring per Bulb
*Consult Factory for MOQ

Specification

ADAPT Commercial String Light (based on 2700K)	
Socket Spacing	24"
Socket Type	E26
Socket Count	24
Cord Length	48" with male and female molded ends
Cord Type	3C x 14AWG SJTW
Cord Plug	5-15P Polarized
Cord Weight	7.85 lbs.
Available Cord Color	Black, White
Field Cuttable Cord	NO
Opening Voltage	120V AC
Watts/Strand	96W based on 10% voltage drop
Max Run	Feet (84), Strand sets (8), Watts (768)
ADAPT Globe	
Globe	Glass (Shatter resistance assist with silicone coating - Glass may still break under certain conditions)
ADAPT Light Engine	
Watts/Bulb	4W
Lumens/Bulb	400 light engine only (Lumen output may vary based on globe choice)
Weight (lbs)/bulb	.10
Kelvin Temperature	2700K, 3000K
CRI	80+
Operating Voltage	120V AC
Dimming	ELV, TRIAC
Base	E26 Medium base
Certification and Testing	
Certification (Cord, Light Engine)	cETLus
Environment (Cord, Light Engine)	Wet Location
IP Rating (Cord, Light Eng. line)	IP65
Lifetime Hours (Light Engine)	15,000
Warranty (Cord, Light Engine)	3 Years

TYPE D



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PROJECT

**RIVER POINT
K1 SITE**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-30331
FILE NAME	30331-E2-LIGHT
DRAWN BY	BDC
DESIGNED BY	BDC/SMW
REVIEWED BY	KBR
ORIGINAL ISSUE DATE	03/28/2024
CLIENT PROJECT NO.	-

TITLE

**SITE ELECTRICAL
FIXTURES**

SHEET

E2-01