

PROJECT #: EDP-0977(653)--7Y-29



**URBAN ROAD SYSTEM
CITY OF BURLINGTON, IOWA
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
FHWA FY2017 TIGER GRANT NO. 12
DIVISION 1: RIVERFRONT IMPROVEMENTS

PCC PAVEMENT - GRADE AND REPLACE**



SECTION 404 PERMIT AND CONDITIONS
281-1
10-18-16
Construct this project according to the requirements of the U.S. Army Corps of Engineers Section 10/404 Individual Permit; Permit No. CEMVR-OD-P-2019-1030. A copy of this permit is available from the Iowa DOT website (<http://www.envpermits.iowadot.gov/>). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

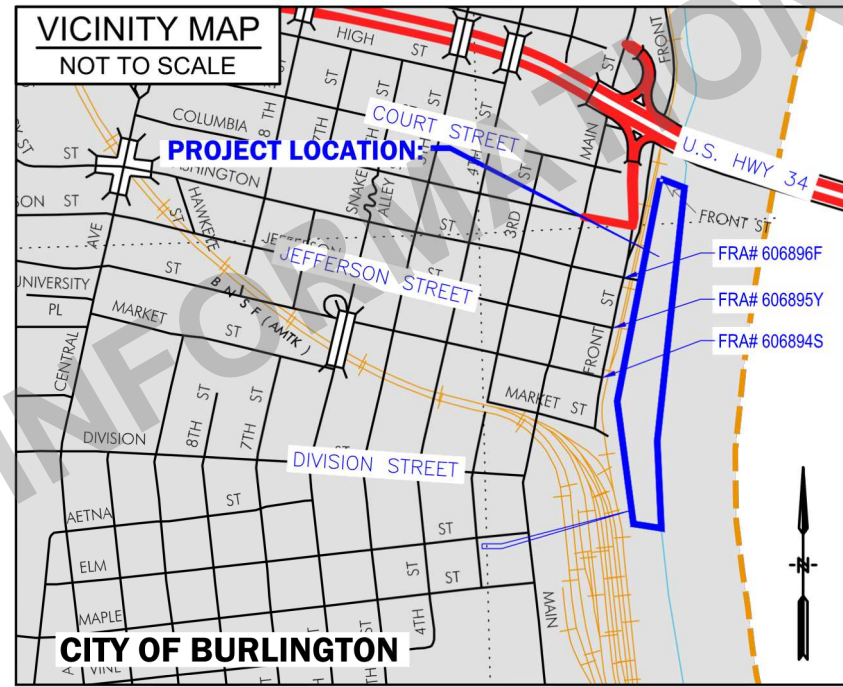
This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.

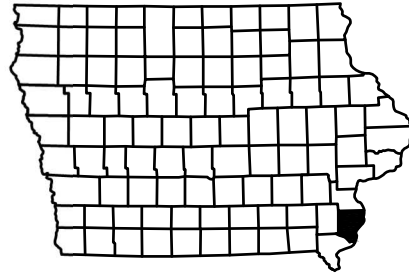
Value Engineering Saves. Refer to Article 1105.15 of the Specifications

STANDARD ROAD PLANS
SEE SHEET C.5 FOR STANDARD ROAD PLANS

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D.6	LAYOUT ENLARGEMENTS	RR.1	EROSION CONTROL PLAN - AREA 1
D.7	LAYOUT ENLARGEMENTS	RR.2	EROSION CONTROL PLAN - AREA 2
D.8	GRADING PLAN - AREA 1	RR.3	EROSION CONTROL PLAN - AREA 3
D.9	GRADING PLAN - AREA 2	UD.1	SITE DETAILS - PAVEMENT DETAILS
D.10	GRADING PLAN - AREA 3	UD.2	SITE DETAILS - GUARDRAIL DETAILS
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E.1	SITE ELECTRICAL PLAN - AREA 1	UD.4	SITE DETAILS - RAMP & BOLLARD DETAILS
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FT.3.0	ELECTRICAL DIAGRAM, ELECTRICAL PLAN	US.8	STRUCTURAL ABBREVIATIONS AND LEGEND
FT.4.0	DIMENSION PLAN	US.9	STRUCTURAL GENERAL NOTES
FT.5.0	MECHANICAL ROOM LAYOUT	US.10	STRUCTURAL GENERAL NOTES
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I.2	LANDSCAPE PLAN - AREA 2	US.13	TRELLIS STRUCTURE FRAMING PLAN
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I.5	LANDSCAPE ENLARGEMENT	US.16	3D HSS FRAME
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L.1	JOINTING PLAN - AREA 1	UW.3	BOAT RAMP DETAILS
L.2	JOINTING PLAN - AREA 2	UW.4	REVTMENT SECTIONS
L.3	JOINTING PLAN - AREA 3		



UTILITY CONTACTS			
COMPANY	UTILITY	CONTACT	PHONE #
ALLIANT ENERGY	ENERGY	MATT ZURMUEHLEN	319-753-5715
BURLINGTON WATER	WATER	SHANE JOHNSON	319-754-6501
CENTURY LINK	TELECOM	THOMAS STURMER	720-578-8090
DANVILLE MUTUAL	TELEPHONE	JEFF MOLLE	319-392-4251
MEDIACOM	TELECOM	DARRIN WALKER	319-759-3786
LTDS/LISCO CORP.	TELECOM	FRAZER JONES	641-919-9645
CITY OF BURLINGTON	CITY	JESSE HOWE, P.E.	319-753-8176
UNITE PRIVATE SERVICES	INTERNET	JOE KILZER	816-425-3556



CITY of BURLINGTON, IOWA

ACCEPTED FOR LETTING
CITY OFFICIAL _____ DATE _____

LICENSED PROFESSIONAL ENGINEER
LEO F. FOLEY
IOWA
I hereby certify that this document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
Signature: LEO F. FOLEY
Printed or Typed Name
Date: 4/12/2021
My license renewal date is December 31, 2022
Pages or sheets covered by this seal: A.1-A.2, C.1, E.1-E.6, J.1-J.3, FT.T1.0-FT.6.0, RC.1, UW.4 (Detail 3),

LICENSED PROFESSIONAL ENGINEER
JOHN KRETSCHMAN
17599
IOWA
I hereby certify that this document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
Signature: JOHN KRETSCHMAN
Printed or Typed Name
Date: 4/12/2021
My license renewal date is December 31, 2022
Pages or sheets covered by this seal: C.1-C.5, D.8-D.11, MU.1-MU.5, O.1-O.3, RE.1-RE.3, RR.1-RR.3, UD.1-UD.4, UW.1-UW.4 (Details 1-2)

LICENSED PROFESSIONAL ARCHITECT
LEIGH ALLEN
ARC07713
IOWA
I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed architect under the laws of the State of Iowa.
Signature: LEIGH ALLEN
Printed or Typed Name
Date: 4/12/2021
My license renewal date is December 31, 2022
Pages or sheets covered by this seal: US.1-US.18

STATE OF IOWA PROFESSIONAL LANDSCAPE ARCHITECT
THOMAS J. ROGERS
LANDSCAPE ARCHITECT NO. 00738
I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed professional landscape architect under the laws of the State of Iowa.
Signature: THOMAS J. ROGERS
Printed or Typed Name
Date: 4/12/2021
My license renewal date is June 30, 2022
Pages or sheets covered by this seal: C.1, D.1-D.7, I.1-I.6, L.1-L.3, UD.5

EDP-0977(653)--7Y-29
 PROJECT: RIVERFRONT IMPROVEMENTS
 CITY OF:
 BURLINGTON, IOWA
 DES MOINES COUNTY
 LETTING DATE: 07/20/2021

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED RW	
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE _____ REVISIONS _____

V&K
VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-796-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

DWG. NO. A.1
TITLE & INDEX
PROJECT

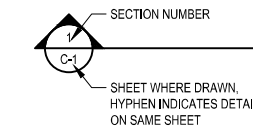
ABBREVIATIONS

A		LF	LINEAR FEET
ABD	ABANDONED	LPT	LOW POINT
AC	ACRES	LN	LANE
ADA	AMERICANS WITH DISABILITIES ACT	LT	LIGHT
APPROX	APPROXIMATE	LTG	LIGHTING
ARCH	ARCHITECT(URAL)	LT WT	LIGHT WEIGHT
ANLA	AMERICAN NURSERY AND LANDSCAPE ASSOCIATION	M	
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MAS	MASONRY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MATL	MATERIAL
		MAX	MAXIMUM
B		ME	MATCH EXISTING
BM	BENCHMARK	MED	MEDIUM
BIT	BITUMINOUS	MFR	MANUFACTURER
BLDG	BUILDING	MH	MANHOLE
B/C	BOTTOM OF CURB	MIN	MINIMUM
B/S	BOTTOM OF SWALE	MISC	MISCELLANEOUS
B/W	BOTTOM OF WALL (FINISH GRADE)	MOD	MODIFIED
		N	
C		N	NORTH, NORTHING COORDINATE
CB	CATCH BASIN	NA	NOT APPLICABLE
CI	CURB INLET	NAT	NATURAL
CIP	CAST IRON PIPE	NB	NORTHBOUND
CL	CLASS	NE	NORTHEAST
CMP	CORRUGATED METAL PIPE	NIC	NOT IN CONTRACT
CON	CONDENSATE	NTS	NOT TO SCALE
CO	CLEANOUT	NW	NORTHWEST
CONC	CONCRETE	O	
CONTR	CONTRACTOR	OC	ON CENTER
CU FT	CUBIC FOOT	OD	OUTER DIAMETER
CU YD	CUBIC YARD	OFF	OFFSET
CWR	CHILLED WATER RETURN	OPT	OPTIONAL
CWS	CHILLED WATER SUPPLY	P	
		PA	PLANTING AREA
D		PED	PEDESTRIAN
DEMO	DEMOLISH	PERF	PERFORATED
DEPT	DEPARTMENT	PERP	PERPENDICULAR
DIA	DIAMETER	PLMB	PLUMBING
DIP	DUCTILE IRON PIPE	PREFAB	PREFABRICATED
DWG	DRAWING	PREP	PREPARATION
		PROJ	PROJECTED
E		PROP	PROPOSED
E	EAST, EASTING COORDINATE	PSF	POUNDS PER SQUARE FOOT
EA	EACH	PSI	POUNDS PER SQUARE INCH
EB	EASTBOUND	PT	POINT
EG	EXISTING GRADE	PVC	POLYVINYL CHLORIDE
ELEV	ELEVATION	PVMT	PAVEMENT
E/M	EDGE OF METAL (EDGE OF GUTTER)	PWR	POWER
EQ	EQUAL	Q	
ESVCP	EXTRA STRENGTH VITRIFIED CLAY PIPE	QTY	QUANTITY
EX	EXISTING	R	
		RAD	RADIUS
F		RCP	REINFORCED CONCRETE PIPE
FF	FINISH FLOOR ELEVATION	RCPT	RECEPTACLE
FG	FINISH GRADE	RD	ROAD
FHWA	FEDERAL HIGHWAY ADMINISTRATION	REF	REFERENCE
FLASH	FLASHING	REINF	REINFORCED, REINFORCEMENT
FM	FORCE MAIN	REM	REMOVE
FT	FOOT, FEET	REQD	REQUIRED
FURN	FURNISHING	RIM	RIM ELEVATION
		ROW	RIGHT OF WAY
G		S	
GALV	GALVANIZED	S	SOUTH
GAS	NATURAL GAS	SAN	SANITARY SEWER
G/C	GUTTER OF CURB (FLOWLINE)	SB	SOUTHBOUND
GVL	GRAVEL	SCH	SCHEDULE
		SE	SOUTHEAST
H		SECT	SECTION
H	HIGH	SESC	SOIL EROSION AND SEDIMENTATION CONTROL
HB	HOSE BIBB	SIM	SIMILAR
HCAP	ADA HANDICAP	SP	SPACE, SPACED, SPACING
HDPE	HIGH-DENSITY POLYETHYLENE	SPKLR	SPRINKLER
HMA	HOT MIX ASPHALT	SQ FT	SQUARE FEET
HORZ	HORIZONTAL	SQ YD	SQUARE YARD
HP	HIGH POINT	ST	STREET
HT	HEIGHT	ST LT	STREET LIGHT
		STA	STATION
I		STAG	STAGGER, STAGGERED
ID	INNER DIAMETER	STD	STANDARD
IN	INCH, INCHES	STL	STEEL
INCL	INCLUDE, INCLUDING	SSL	STAINLESS STEEL
INL	INLET		
INV	PIPE INVERT ELEVATION		
IRR	IRRIGATION		
J			
JT	JOINT		
L			
L	LENGTH		

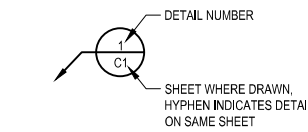
STM	STORM SEWER
STRUCT	STRUCTURAL
SUBCONTR	SUBCONTRACTOR
SW	SOUTHWEST
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
T	
T	TELECOM
T/C	TOP OF CURB
TEMP	TEMPORARY
TOT	TOTAL
T/S	TOP OF SWALE
T/W	TOP OF WALL
TYP	TYPICAL
U	
UD	UNDERDRAIN
UTIL	UTILITY
V	
V/B	VALVE BOX
VERT	VERTICAL
W	
W	WEST
WB	WESTBOUND
WM	WATER MAIN
W/O	WITHOUT
WWF	WELDED WIRE FABRIC
Y	
YD	YARD DRAIN
SYMBOL	
∅	DIAMETER
±	PLUS/MINUS
Δ	DELTA

REFERENCE SYMBOLS

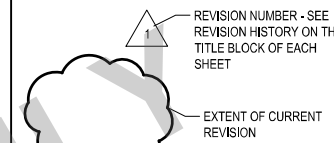
SITE SECTION



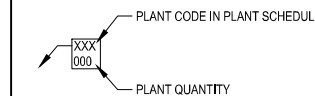
PLAN DETAIL REFERENCE



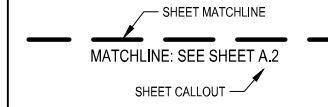
REVISION NUMBER AND EXTENT



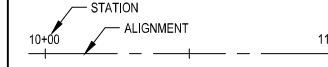
PLANT MATERIAL LABEL



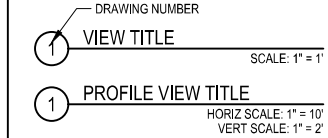
MATCHLINE REFERENCE



ALIGNMENT AND STATIONING



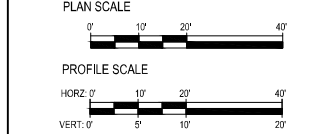
DRAWING TITLE SYMBOLS



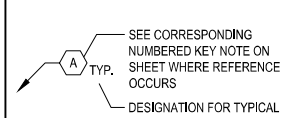
NORTH ARROW



GRAPHICAL SCALE



KEYED NOTE MARK



GENERAL NOTES

- PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE CON FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
- NOTIFY THE PROJECT ENGINEER IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSION SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR, THE PROJECT ENGINEER SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
- PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION.
- TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC.
- NOTIFY ALL UTILITY COMPANIES WITH UTILITIES ON THE SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT. ADHERE TO ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS OR REGULATIONS PERTAINING TO THE PROJECT.
- GRADING AND LAYOUT PLANS WILL BE PROVIDED TO CONTRACTOR IN ELECTRONIC CAD FORMAT. ANY DISCREPANCIES BETWEEN PLANS AND CAD FILE SHALL BE BROUGHT TO ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
- DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
- TAKE NOTE OF ALL GRADING AND DRAINAGE WAYS AND MAINTAIN THESE DRAIN WAYS FREE OF OBSTRUCTIONS.
- COORDINATE CONSTRUCTION OF PENETRATIONS, SLEEVES, VARIATIONS IN THE SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
- PREPARE ALL SUBGRADES PER SPECIFICATIONS.
- INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIAL QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE.
- SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. REPAIR ANY DISTURBED AREAS TO THE SAME CONDITION AS ORIGINAL. REFER TO SPECIFICATIONS FOR SEED MIXES.
- MINIMIZE CULTIVATION WITHIN THE DRIPLEINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING BY MINIMIZING DISTURBANCE TO 4-INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIPLEINE OF EXISTING TREES.
- REFER TO RR DRAWINGS FOR LIMITS OF EROSION CONTROL MEASURES.

X-REFS: 11682-001-TTBK
FILE PATH:

SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



DATE	REVISIONS
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VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

LEGEND & SYMBOL INFORMATION

DWG. NO.	A.2
PROJECT	

PLOTTED:

ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT)					Division 1: RIVERFRONT IMPROVEMENTS	
This Data Entry Sheet fills Tab 100-C effective 04-17-12						
Item No.	Item Code	Item	Unit	Quantities		
				Estimated	As-built	
				Division 1	Division 1	
1	2101-0850001	CLEARING AND GRUBBING	ACRE	0.4		
2	2102-2625000	EMBANKMENT-IN-PLACE	CY	413		
3	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	905		
4	2111-8174100	GRANULAR SUBBASE - 10 IN.	SY	1906		
5	2111-8174100	GRANULAR SUBBASE - 12 IN.	SY	3543		
6	2111-8174100	GRANULAR SUBBASE - 6 IN.	SY	4368		
7	2213-6745500	REMOVAL OF CURB	STA	21		
8	2301-1033060	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 6 IN.	SY	7911		
9	2303-1031750	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 3/4 IN. MIX	TON	210		
	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MI X, NO SPECIAL FRICTION REQUIREMENT	TON	210		
10						
11	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	25		
12	2401-6745356	REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES	EACH	24		
13	2401-6745765	REMOVAL OF LIGHT POLES	EACH	26		
14	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING	LF	61		
15	2414-6460000	ORNAMENTAL METAL RAILING, PEDESTRIAN GUARDRAIL	LF	168		
16	2414-6460000	ORNAMENTAL METAL RAILING, PEDESTRIAN GUARDRAIL WITH INTEGRAL HANDRAIL	LF	76		
17	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH	1		
18	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	2		
19	2435-0250100	INTAKE, SW-501	EACH	5		
20	2435-0250248	INTAKE, SW-502, 48 IN.	EACH	1		
21	2435-0251224	INTAKE, SW-512, 24 IN.	EACH	1		
22	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	5		
23	2435-0600110	INTAKE ADJUSTMENT, MINOR	EACH	1		
24	2435-0700010	CONNECTION TO EXISTING MANHOLE	EACH	4		
25	2502-2308100	TRENCH DRAIN	LF	105		
26	2503-0110008	STORM SEWER GRAVITY MAIN, TRENCHED, 8 IN.	LF	146		
27	2503-0110012	STORM SEWER GRAVITY MAIN, TRENCHED, 12 IN.	LF	147		
28	2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN.	LF	175		
29	2504-0110008	SANITARY SEWER GRAVITY MAIN, TRENCHED, 8 IN.	LF	141		
30	2504-0140008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 8 IN.	LF	112		
31	2504-0230000	SEWAGE AIR RELEASE VALVE AND PIT, SANITARY BACKWATER VALVE	EACH	1		
32	2507-3250005	ENGINEERING FABRIC	SY	803		
33	2507-6800032	REVTMENT, CLASS C	TON	920		
34	2507-6800061	REVTMENT, CLASS E	TON	320		
35	2510-6745850	REMOVAL OF PAVEMENT	SY	14180		
36	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	7		
37	2511-7528101	DETECTABLE WARNINGS	SF	780		
38	2512-1725206	CURB AND GUTTER, P.C. CONCRETE, 2.0 FT.	LF	1913		
39	2512-1859000	CURB, SPECIAL, AS PER PLAN, BEAM CURB	LF	681		
40	2512-1859000	CURB, SPECIAL, AS PER PLAN, DROP CURB	LF	528		
41	2516-8725000	P.C. CONCRETE RETAINING WALL	CY	29		
42	2516-8725065	SPECIAL RETAINING WALL, AS PER PLAN, SEATWALL TYPE A	SF	426		
43	2516-8725065	SPECIAL RETAINING WALL, AS PER PLAN, SEATWALL TYPE B	SF	180		
44	2517-4225210	RAILROAD APPROACH SECTION, P.C.C.	SY	24		
45	2519-3300700	FENCE, TEMPORARY	LF	1230		
46	2519-3760000	ENTRANCE BOLLARD	EACH	46		
47	2520-3350015	FIELD OFFICE	EACH	1		
48	2523-0000100	LIGHTING POLES, (L10) COMPLETE	EACH	4		
49	2523-0000100	LIGHTING POLES, (L5) COMPLETE	EACH	3		
50	2523-0000100	LIGHTING POLES, (L6) COMPLETE	EACH	9		
51	2523-0000100	LIGHTING POLES, (L7) COMPLETE	EACH	1		
52	2523-0000100	LIGHTING POLES, (L8) FIXTURE ONLY	EACH	3		
53	2523-0000100	LIGHTING POLES, (L9) FIXTURE ONLY	EACH	4		
54	2523-0000100	LIGHTING POLE/FIXTURE (L6) ONLY	EACH	7		
55	2523-0000100	LIGHTING POLE/FIXTURE (L7) ONLY	EACH	3		
56	2523-0000200	ELECTRICAL CIRCUITS	LF	2501		
57	2523-0000400	CONTROL CABINET AUDITORIUM LIGHTING CONTROLS	EACH	1		
58	2523-0000400	CONTROL CABINET LIGHTING CONTROL PANEL (LCP)	EACH	1		
59	2523-0000400	CONTROL CABINET PORT BUILDING LIGHTING PANELBOARD	EACH	1		
60	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	LF	126		

ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT)					Division 1: RIVERFRONT IMPROVEMENTS	
This Data Entry Sheet fills Tab 100-C effective 04-17-12						
Item No.	Item Code	Item	Unit	Quantities		
				Estimated	As-built	
				Division 1	Division 1	
61	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	EACH	7		
62	2524-9276024	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY CONCRETE INSTALLATION	EACH	5		
63	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	50		
64	2524-9325150	INSTALL TYPE A SIGN	EACH	12		
65	2526-8285000	CONSTRUCTION SURVEY	LS	1		
66	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE, 4 IN.	STA	38.9		
67	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE, 6 IN.	STA	2.5		
68	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE	EACH	18		
69	2528-2518000	SAFETY CLOSURE	EACH	2		
70	2528-8445110	TRAFFIC CONTROL	LS	1		
71	2533-4980005	MOBILIZATION	LS	1		
72	2549-0006410	IN-SITU MANHOLE REPLACEMENT, CAST-IN-PLACE CONCRETE	VLF	2		
73	2554-0112006	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN.	LF	82		
74	2554-0112008	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.	LF	214		
75	2554-0142008	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 8 IN.	LF	124		
76	2554-0207006	VALVE, GATE, DIP, 6 IN.	EACH	1		
77	2554-0210201	FIRE HYDRANT, WM-201	EACH	1		
78	2595-0005100	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR BURLINGTON JUNCTION RAILWAY	LS	1		
79	2599-9999005	BENCH, BACKED	EACH	4		
80	2599-9999005	BENCH, BACKED TOP	EACH	3		
81	2599-9999005	BENCH, BACKLESS TOP	EACH	5		
82	2599-9999005	BICYCLE RACK	EACH	16		
83	2599-9999005	MOORING DOLPHIN	EACH	3		
84	2599-9999005	PILING 8"	EACH	7		
85	2599-9999005	PLANTS	EACH	274		
86	2599-9999005	RECEPTACLES, TRASH/RECYCLING	EACH	6		
87	2599-9999010	BOAT RAMP	LS	1		
88	2599-9999010	CONCRETE WASHOUT	LS	1		
89	2599-9999010	COURTESY DOCK ABUTMENTS	LS	1		
90	2599-9999010	IRRIGATION SYSTEM	LS	1		
91	2599-9999010	SHADE STRUCTURE	LS	1		
92	2599-9999010	SOUTH COURTESY DOCKS INCLUDING SHEET PILE, COMPLETE	LS	1		
93	2599-9999010	SPLASH PAD	LS	1		
94	2599-9999014	CONCRETE RAMP	SF	350		
95	2599-9999014	CONCRETE STEPS	SF	220		
96	2599-9999014	FLUSH CONCRETE BAND	SF	560		
97	2599-9999014	PAVERS ON CONCRETE BASE	SF	1260		
98	2599-9999018	P.C. CONCRETE SANDBLAST FINISH	SY	880		
99	2599-9999018	SAND BASED TURF COMPLETE	SY	1300		
100	2599-9999020	RIPRAP, TYPE 1	TON	35		
101	2599-9999020	RIPRAP, TYPE 2	TON	290		
102	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	0.5		
103	2602-0000020	SILT FENCE	LF	820		
104	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	820		
105	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	820		
106	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	156		
107	2602-0000212	FLOATING SILT CURTAIN (HANGING)	LF	805		
108	2602-0000240	MAINTENANCE OF FLOATING SILT CURTAIN	LF	805		
109	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF	726		
110	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	726		
111	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH	15		
112	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	15		
113	2602-0010010	MOBILIZATION, EROSION CONTROL	EACH	1		
114	2610-0000200	MULCH	CY	49		
115	2611-0000100	SHRUBS, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH	447		
116	2611-0000200	TREES, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH	40		

SCALE
DRAWN SKH
CHECKED RW
APPROVED RW
DATE 04/12/2021
ISSUED FOR BID DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SMITHGROUP

DATE REVISIONS



PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA
1800 5th Ave • Rock Island, Illinois 61201
309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

ESTIMATED PROJECT QUANTITIES

DWG. NO.
C.1
PROJECT

PLOTTED:

ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
1	2101-0850001	CLEARING AND GRUBBING Contractor shall be paid in ACRES, measured in number of acres satisfactorily completed. See RE Sheets.
2	2102-2625000	EMBANKMENT-IN-PLACE Includes parking lot, boat ramp, and plaza grading. See Earthwork tabulation sheet D.8
3	2105-8425005	TOPSOIL, FURNISH AND SPREAD Furnish eight (8) inches of topsoil to seed restoration areas
4	2111-8174100	GRANULAR SUBBASE - 10 IN. See plan sheets D.1-D.7 for placement of pavement, refer to UD.1 for subbase depth per pavement type. See Pavement tabulation sheet D.4
5	2111-8174100	GRANULAR SUBBASE - 12 IN. See plan sheets D.1-D.7 for placement of pavement, refer to UD.1 for subbase depth per pavement type. See Pavement tabulation sheet D.4
6	2111-8174100	GRANULAR SUBBASE - 6 IN. See plan sheets D.1-D.7 for placement of pavement, refer to UD.1 for subbase depth per pavement type. See Pavement tabulation sheet D.4
7	2213-6745500	REMOVAL OF CURB Measurement is by STA. BOP: Contractor to be paid for complete curb removal and disposal. See plan sheets RE1-RE.3 for curb removal locations. Tabulations see sheet RE.1.
8	2301-1033060	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 6 IN. Certified plant inspections are included with this item. See Pavement tabulation sheet D.4
9	2303-1031750	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 3/4 IN. MIX
10	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT
11	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC See plan sheets D.1-D.7 for placement of pavement. See Pavement tabulation sheet D.4. Certified plant inspections are included with this item.
12	2401-6745356	REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES Measurement is per each. BOP: Payment is for complete removal and disposal of concrete footings of light poles. See RE sheets for proposed removals. Includes complete removal of footing, foundation, associated conduit and wiring not specified to be reused, removed off site by contractor
13	2401-6745765	REMOVAL OF LIGHT POLES Measurement is per each. BOP: Payment is for complete removal and disposal of light poles. See RE sheets for proposed removals. Includes complete removal of light poles and fixtures, removed off site by contractor
14	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING Includes complete shop drawings and submittal of welding and fabrication samples for review by engineer. See D.5 for location. See UD series for details. Payment shall be per linear foot for complete fabrication and installation. See STEEL RAILINGS special provision.
15	2414-6460000	ORNAMENTAL METAL RAILING, PEDESTRIAN GUARDRAIL Includes complete shop drawings and submittal of welding and fabrication samples for review by engineer. See D.5 for location. See UD series for details. Payment shall be per linear foot for complete fabrication and installation
16	2414-6460000	ORNAMENTAL METAL RAILING, PEDESTRIAN GUARDRAIL WITH INTEGRAL HANDRAIL Includes complete shop drawings and submittal of welding and fabrication samples for review by engineer. See D.5 for location. See UD series for details. Payment shall be per linear foot for complete fabrication and installation
17	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN. See tabulations sheet MU.2
18	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.
19	2435-0250100	INTAKE, SW-501
20	2435-0250248	INTAKE, SW-502, 48 IN.
21	2435-0251224	INTAKE, SW-512, 24 IN. See MU sheets for size, placement, and connections of proposed storm sewer structures. See storm structure tabulations sheet MU.3
22	2435-0600010	MANHOLE ADJUSTMENT, MINOR For minor adjustments of existing manholes to match finished grade. Item includes minor adjustments of other utility boxes/handholes. Minor adjustment of gas and water valve boxes and curb stops are incidental to project.
23	2435-0600110	INTAKE ADJUSTMENT, MINOR See MU sheets for locations

ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
24	2435-0700010	CONNECTION TO EXISTING MANHOLE For connecting proposed sewer lines to existing structures. Does not include payment for connection of proposed sewer mains or services to proposed structures or mains. See MU sheets for location.
25	2502-2308100	TRENCH DRAIN See sheet MU.2 for size, placement, and connections. See sanitary sewer tabulations sheet MU.2 for trench drain pipe connections.
26	2503-0110008	STORM SEWER GRAVITY MAIN, TRENCHED, 8 IN.
27	2503-0110012	STORM SEWER GRAVITY MAIN, TRENCHED, 12 IN.
28	2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN. See MU sheets for size, depth, connections, and alignment of all proposed sewer main. Acceptable materials for main include PVC, HDPE, and RCP. See MU.3 for storm sewer tabulations.
29	2504-0110008	SANITARY SEWER GRAVITY MAIN, TRENCHED, 8 IN.
30	2504-0140008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 8 IN. See MU sheets for size, depth, connections, and alignment of all proposed sewer main. Acceptable materials for main include PVC, HDPE, and RCP. Item includes dewatering, granular trench backfill/compaction, hauling and disposal of unused soils, pipe/structure bedding, bypass pumping, and pipe connections. See MU.2 for sanitary sewer tabulations.
31	2504-0230000	SEWAGE AIR RELEASE VALVE AND PIT, SANITARY BACKWATER VALVE For providing, installing, and connecting backwater/backflow device on sanitary sewer. See MU sheets for location.
32	2507-3250005	ENGINEERING FABRIC For location, see Revetment location sheet D.2, D.8, and details sheet UW.4. See Riprap Shore Protection Special Provision for placement.
33	2507-6800032	REVTMENT, CLASS C
34	2507-6800061	REVTMENT, CLASS E See sheet UW.4 for Revetment detail
35	2510-6745850	REMOVAL OF PAVEMENT See RE sheets for extents of proposed pavement removals
36	2510-6750800	REMOVAL OF INTAKES AND UTILITY ACCESSES See RE.1 for tabulation of storm structure removals
37	2511-7528101	DETECTABLE WARNINGS See plan sheets for location of detectable warning. See tabulation Sheet D.2
38	2512-1725206	CURB AND GUTTER, P.C. CONCRETE, 2.0 FT. Certified plant inspections are included with this item. See plan sheets D.1-D.7 for locations. See tabulations sheet D.4.
39	2512-1859000	CURB, SPECIAL, AS PER PLAN, BEAM CURB Measurement is Per linear foot. BOP: Includes subbase, forming, placing, and finishing. Certified plant inspections are included with this item. See tabulations sheet D.4. See plan sheets D.1-D.7 for locations.
40	2512-1859000	CURB, SPECIAL, AS PER PLAN, DROP CURB Measurement is per linear foot. BOP: Includes subbase, forming, placing, and finishing. Certified plant inspections are included with this item. See plan sheets D.1-D.7 for locations. See tabulations sheet D.4
41	2516-8725000	P.C. CONCRETE RETAINING WALL Sheets D.5 for location and UD.4 for details. For complete excavation, formwork, rebar, and concrete placement and finishing for ADA ramp retaining wall. Certified plant inspections are included with this item.
42	2516-8725065	SPECIAL RETAINING WALL, AS PER PLAN, SEATWALL TYPE A Measurement is per square foot BOP: For complete excavation, formwork, rebar, concrete placement, and finishing. Does not include payment for bench installation. Certified plant inspections are included with this item. See Seatwall Type A sheet D.3 for locations and tabulation. See UD.1 for details.
43	2516-8725065	SPECIAL RETAINING WALL, AS PER PLAN, SEATWALL TYPE B Measurement is per face square foot. BOP: For complete excavation, formwork, rebar, concrete placement, and finishing. Does not include payment for bench installation. Certified plant inspections are included with this item. See Seatwall Type B sheet D.3 for locations and tabulation. See UD.1 for details.
44	2517-4225210	RAILROAD APPROACH SECTION, P.C.C. Approach section to span full lane width at railroad approaches on Jefferson St. and Washington St. Locations indicated on sheet D.3 Certified plant inspections are included with this item.
45	2519-3300700	FENCE, TEMPORARY Measurement is per linear foot. BOP: For providing temporary chain-link fencing to secure the construction site perimeter, including access gates as necessary. See J sheets for locations.

X-REFS: 11682-001-TTBK
FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED RW	
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

DATE	REVISIONS





VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

ESTIMATE REFERENCE INFORMATION

DWG. NO.
C.2
PROJECT

PLOTTED:

ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
46	2519-3760000	ENTRANCE BOLLARD Measurement is for each. BOP: For bollard and footing installation including all necessary labor and materials. See D.3 and D.7 for locations, see UD.4 for detail. Install per manufacturer's recommendations.
47	2520-3350015	FIELD OFFICE Contractor shall supply field office from beginning of project through punchlist items to final completion. Engineer shall preapprove placement location(s) of field office(s) before installation.
48	2523-0000100	LIGHTING POLES, (L10) COMPLETE
49	2523-0000100	LIGHTING POLES, (L5) COMPLETE
50	2523-0000100	LIGHTING POLES, (L6) COMPLETE
51	2523-0000100	LIGHTING POLES, (L7) COMPLETE
52	2523-0000100	LIGHTING POLES, (L8) FIXTURE ONLY
53	2523-0000100	LIGHTING POLES, (L9) FIXTURE ONLY
54	2523-0000100	LIGHTING POLE/FIXTURE (L6) ONLY
55	2523-0000100	LIGHTING POLE/FIXTURE (L7) ONLY See E sheets for locations. See Lighting Pole tabulation sheet E.1
56	2523-0000200	ELECTRICAL CIRCUITS Furnish and install branch and feeder circuits as shown and scheduled in the plans. See E sheets for location and E.4 for tabulation.
57	2523-0000400	CONTROL CABINET AUDITORIUM LIGHTING CONTROLS Furnish and install lighting controller with dimming and timeclock controls. Controller and associated breakers shall be installed within auditorium mechanical room. See sheet E.4, E.5 & E.6
58	2523-0000400	CONTROL CABINET LIGHTING CONTROL PANEL (LCP) Furnish and install lighting control panel where shown on the plans. LCP shall accommodate all proposed lighting circuits shown with photocell and timeclock controls. See sheet E.4, E.5 & E.6
59	2523-0000400	CONTROL CABINET PORT BUILDING LIGHTING PANELBOARD See sheet E.3 for locations. Remove and relocate existing light pole and fixture where shown
60	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS
61	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION
62	2524-9276024	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY CONCRETE INSTALLATION
63	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM
64	2524-9325150	INSTALL TYPE A SIGN Furnish and install stop signs at locations shown on D sheets. See Signage tabulation sheet O.1
65	2526-8285000	CONSTRUCTION SURVEY Construction Survey must be completed by surveyor licensed in the State of Iowa. Electronic CAD files for layout and grading will be available to surveyor.
66	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE, 4 IN.
67	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE, 6 IN. Measurement is per STA. See Pavement Marking tabulation sheet O.1
68	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE See O sheets for types and placement of painted pavement markings and symbols in project area. See Pavement Marking tabulation sheet O.1
69	2528-2518000	SAFETY CLOSURE See tabulation sheet J.1
70	2528-8445110	TRAFFIC CONTROL Line items includes all signs, barriers, temporary fencing, flaggers, barricades, cones, and other temporary traffic control devices necessary to maintain the safety of vehicular and pedestrian traffic throughout the project area. See J sheets for plans and details. No temporary pavement markings or removal of temporary pavement markings are anticipated on this project. Maintain access to Port of Burlington building and Burlington Auditorium through out all phases of construction. Provide temporary traffic control as required.
71	2533-4980005	MOBILIZATION Contractor to be paid as lump sum for mobilization.
72	2549-0006410	IN-SITU MANHOLE REPLACEMENT, CAST-IN-PLACE CONCRETE Contractor to be paid per vertical linear foot. See sheet MU.2 for location.
73	2554-0112006	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN.
74	2554-0112008	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.
75	2554-0142008	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 8 IN. See MU sheets for water main routing and connections. See tabulations sheet MU.2

ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
76	2554-0207006	VALVE, GATE, DIP, 6 IN.
77	2554-0210201	FIRE HYDRANT, WM-201 See MU.2 location and connections of gate valve and fire hydrant.
78	2595-0005100	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR BURLINGTON JUNCTION RAILWAY Contractor shall provide proof of liability insurance for work in and around rail lines owned by Burlington Junction Railway Company. Work may not begin until proof is submitted and accepted by the engineer. See WORK ON RAILROAD RIGHT-OF-WAY special provision.
79	2599-9999005	BENCH, BACKED
80	2599-9999005	BENCH, BACKED TOP
81	2599-9999005	BENCH, BACKLESS TOP See D.1-D.7 sheets for locations, UD.5 sheet for dimensions and details. Includes all materials and labor to secure to substrate. See SITE FURNISHING special provision. See tabulation sheet D.2
82	2599-9999005	BICYCLE RACK See D.1-D.7 sheets for locations, UD.5 sheet for dimensions and details. Includes all materials and labor to secure to substrate. See SITE FURNISHING special provision. See tabulation sheet D.2
83	2599-9999005	MOORING DOLPHIN Measurement is for Each. BOP: Contractor shall be paid for providing structural drawings for a Mississippi River mooring dolphin and installation (Signed by P.E.). See sheets D.2-D.3 for locations and UW.4 for detail.
84	2599-9999005	PILING 8" Measurement is for Each. BOP: Contractor shall be paid for providing structural drawings (Signed by P.E.) for a Mississippi River 8" Steel pile complying with ASTM A252 Grade 3(45ksi). Includes removal of existing dock anchor piles and full installation of replacement piles. See sheet D.4.
85	2599-9999005	PLANTS See I sheets for number, varieties, and placements of perennials and grasses not identified as shrubs, trees, sodding or seed.
86	2599-9999005	RECEPTACLES, TRASH/RECYCLING Measurement is for Each. BOP: Each receptacle fabricated and installed with all hardware included. See D.1-D.7 sheets for locations, UD.5 sheet for dimensions and details. Includes all materials and labor to secure to substrate. See SITE FURNISHING special provision. See tabulation sheet D.2
87	2599-9999010	BOAT RAMP Measurement is for Lump sum. BOP: See UW sheets for dimensions and details. Includes all materials and labor to construct boat ramp.
88	2599-9999010	CONCRETE WASHOUT Placement of concrete washout stations shall be preapproved by engineer and meet requirements set out in pollution prevention plan in R sheets. Concrete laden water shall not be allowed to flow into storm or sanitary sewers or any ditches or water bodies. No measurement shall be made for this item. Payment is by lump sum. See Concrete Washout Special Provision
89	2599-9999010	COURTESY DOCK ABUTMENTS Measurement is for Lump sum. BOP: Includes all materials and labor to construct courtesy dock abutment. See UW sheets for dimensions and details. Certified plant inspections are included with this item.
90	2599-9999010	IRRIGATION SYSTEM Provide complete submittal for irrigation layout (CAD and PDF file), and submittals for all products. Contractor will be paid lump sum for providing complete submittal package, design, installation, and Owner training for complete functioning irrigation system as shown on plans. See IRRIGATION SYSTEM special provision.
91	2599-9999010	SHADE STRUCTURE See US.1-US.22 sheets for dimensions and details. Includes all materials, labor, and equipment to construct shade structure. See SHADE STRUCTURE special provision.
92	2599-9999010	SOUTH COURTESY DOCKS INCLUDING SHEET PILE, COMPLETE See UW sheets for dimensions and details. Includes all materials and labor to construct and install courtesy docks, guide piles and interlocking sheet pile retaining wall. Contractor shall provide complete drawings, stamped by a P.E. licensed in Iowa, for use on the Mississippi River. Includes all materials and labor to construct, install and secure courtesy docks. See SOUTH COURTESY DOCKS INCLUDING SHEET PILE WALL special provision.

X-REFS: 11682-001-TTBK
FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

DATE	REVISIONS





VEENSTRA & KIMM, INC.

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ESTIMATE REFERENCE INFORMATION

DWG. NO.	C.3
PROJECT	

PLOTTED:

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
93	2599-9999010	SPLASH PAD See Sheets FT.T.1.0, FT.1.0-FT.6.0 for details. Include all material, labor and equipment to construct the complete splash pad. See Splash Pad Special provision. Splash pad supplier can be Fountain Technologies or equal.
94	2599-9999014	CONCRETE RAMP See D sheets for placement and dimensions for concrete ramp. See sheet UD.4 for details. Contractor shall be paid for complete forming, placing, and finishing. All other materials and equipment are incidental Certified plant inspections are included with this item.
95	2599-9999014	CONCRETE STEPS See D sheets for placement and dimensions for concrete steps. See sheet UD.3 for details. Contractor shall be paid for complete forming, placing, and finishing. All other materials and equipment are incidental Certified plant inspections are included with this item.
96	2599-9999014	FLUSH CONCRETE BAND Measurement is per square foot. BOP: For complet formwork, concrete placement, finishing and necessary labor and materials. Construct flush concrete band per details on UD sheets. See D sheets for location. Contractor shall be paid for subbase, forming, placing and finishing. All other materials and equipement are incidental. Certified plant inspections are included with this item.
97	2599-9999014	PAVERS ON CONCRETE BASE Concrete interlocking pavers and concrete base. Comply with ASTM C936 for minimum 2 3/4" inch pavers. Measurement is per square yard. Basis of payment includes pavers, concrete base course, excavation, all equipment, tools, and materials for complete installation. See Unit Pavers sheet D.5. See PAVERS ON CONCRETE BASE special provision Certified plant inspections are included with this item.
98	2599-9999018	P.C. CONCRETE SANDBLAST FINISH Measurement is per Square yard. BOP: Contractor shall be paid for applying sandblast finish as shown on L series drawings, and to match existing riverfront flatwork. Concrete materials, installation, and curing shall follow SIDEWALK, P.C. CONCRETE, 6 IN. See PAVEMENT WITH SANDBLASTED FINISH special provision. Certified plant inspections are included with this item.
99	2599-9999018	SAND BASED TURF COMPLETE See I sheets for location of sand based turf. Materials, installation, and mixing shall be as specified. See SAND BASED TURF special provision.
100	2599-9999020	RIPRAP, TYPE 1 See D.2 and D.7 for location, UW.1 details and gradation. See RIPRAP SHORE PROTECTION special provision.
101	2599-9999020	RIPRAP, TYPE 2 See D.2 and D.7 for location, UW.4 for details and gradation. See RIPRAP SHORE PROTECTION special provision.
102	2601-2636044	SEEDING AND FERTILIZING (URBAN) See I sheets for placement areas.
103	2602-0000020	SILT FENCE See RR sheets locations and pollution prevention plan.
104	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS Removal of SILT FENCE OR SILT FENCE FOR DITCH CHECKS installations after establishment of permanent erosion control items have been installed and or established.
105	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS Maintenance of SILT FENCE OR SILT FENCE FOR DITCH CHECKS installations after establishment of permanent erosion control items have been installed and or established.
106	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303 See RR sheets for locations and pollution prevention plan. Includes maintenance of practice.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
107	2602-0000212	FLOATING SILT CURTAIN (HANGING) See RR sheets for locations and pollution prevention plan. See Development Specification DS-15019
108	2602-0000240	MAINTENANCE OF FLOATING SILT CURTAIN Removal of MAINTENANCE OF FLOATING SILT CURTAIN installations after establishment of permanent erosion control items have been installed and or established.
109	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA. See RR sheets for locations and pollution prevention plan. Includes maintenance of practice.
110	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE Removal of PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE installations after establishment of permanent erosion control items have been installed and or established.
111	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG Measurement is for each. BOP: for complete installation of sediment filter bag including all necessary labor and materials See RR sheets for storm intake locations and pollution prevention plan. Includes maintenance of practice. See tabulation sheet RR.1
112	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG Measurement is for each. BOP: for complete removal of sediment filter bag including proper disposal of collected sediment. Remove GRATE INTAKE SEDIMENT FILTER BAG installations after establishment of permanent erosion control items have been installed and/or established. See location tabulation sheet RR.1
113	2602-0010010	MOBILIZATION, EROSION CONTROL Measurement shall be paid for each. BOP: Contractor shall be paid for mobilization of erosion control measures necessary to facilitate the start of construction.
114	2610-0000200	MULCH Mulch procured and placed to a depth of three (3) inches on all planter beds as identified in I sheets.
115	2611-0000100	SHRUBS, FURNISHED AND INSTALLED (WITH WARRANTY) See I sheets for number, varieties, and placements of shrubs to be installed as part of project. Warranty shall apply for one (1) year after acceptance of completed project.
116	2611-0000200	TREES, FURNISHED AND INSTALLED (WITH WARRANTY) See I sheets for number, varieties, and placements of trees to be installed as part of project. Warranty shall apply for one (1) year after acceptance of completed project.

X-REFS: 11682-001-TTBK
FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	1"
DATE 04/12/2021	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
ISSUED FOR BID DOCUMENTS	

DATE	REVISIONS

SMITHGROUP



VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

ESTIMATE REFERENCE INFORMATION

DWG. NO.	C.4
PROJECT	

PLOTTED:

STANDARD ROAD PLANS		
The following Standard Road Plans apply to construction work on this project.		
This Data Entry Sheet fills Tab 105-4 effective 10-18-11		
Number	Date	Title
DR-201	4-21-20	Concrete Aprons
EC-303	10-20-20	Stabilized Construction Entrance
EC-602	10-21-20	Open-Throat Curb Intake Sediment Filter
PV-102	04-21-20	PCC Curb Details
PV-106	10-17-17	PCC Railroad Approach Section
SW-101	04-17-18	Trench Bedding and Backfill Zones
SW-102	04-20-21	Rigid Gravity Pipe Trench Bedding
SW-103	04-20-21	Flexible Gravity Pipe Trench Bedding
SW-203	04-17-18	Sanitary Sewer Cleanout
SW-211	04-17-18	Storm Sewer Pipe Connections
SW-301	04-21-20	Circular Sanitary Sewer Manhole
SW-401	04-20-21	Circular Storm Sewer Manhole
SW-406	04-21-20	Shallow Rectangular Storm Sewer Manhole
SW-501	04-21-20	Single Grate Intake
SW-502	04-21-20	Circular Single Grate Intake
SW-512	04-21-20	Circular Area Intake
SW-521	04-21-20	Linear Trench Drain
SW-602	04-21-20	Castings For Storm Sewer Manholes
SW-603	10-16-18	Castings for Grate Intakes
SW-604	04-21-20	Castings for Area Intakes
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	4-21-15	Work Within 15 ft of Traveled Way
TC-252	4-21-20	Routes closed to traffic
TC-273	10-15-19	Construction site entrance
TC-601	10-15-19	Pedestrian detour
TC-602	10-15-19	Sidewalk diversion
WM-101	10-18-16	Thrust Blocks
WM-201	04-20-21	Fire Hydrant Assembly

INDEX OF TABULATIONS		
This Data Entry Sheet fills Tab 111-25 effective 10-18-11		
Tabulation	Tabulation Title	Sheet No.
100-1A	ESTIMATED PROJECT QUANTITIES	C.1
100-4A	ESTIMATED REFERENCE INFORMATION	C.2-C.4
105-4	STANDARD ROAD PLANS	C.5
111-25	INDEX OF TABULATIONS	C.5
	DETECTABLE WARNING	D.2
	BENCHES	D.2
	BICYCLE RACKS	D.2
	RECEPTACLES, TRASH/RECYCLING	D.2
	SPECIAL RETAINING WALL	D.3
	CURB AND GUTTER	D.4
	PAVEMENT	D.4
	EARTHWORK	D.8
	LIGHTING POLES	E.1
	LIGHT FIXTURE POWER WIRING SCHEDULE	E.4
	PLANTS	I.6
108-23A	TRAFFIC CONTROL PLAN	J.1
108-26A	STAGING NOTES	J.1
108-13A	SAFETY CLOSURES	J.1
	SANITARY SEWER PIPE TABULATION	MJ.2
	SANITARY SEWER STRUCTURE TABLE	MJ.2
	WATER CONNECTION TABLE	MJ.2
	WATER PIPE TABULATION	MJ.2
	STORM PIPE TABULATION	MJ.3
	STORM SEWER STRUCTURE TABLE	MJ.3
	SIGNAGE	O.1
	PAVEMENT MARKINGS	O.1
110-12L	POLLUTION PREVENTION PLAN	RC.1
	GRATE INTAKE SEDIMENT FILTER BAG	RE.1
	REMOVAL OF CURB	RE.1
	REMOVAL OF FOOTING AND LIGHT POLE	RE.1
	REMOVAL OF EXISTING STORM STRUCTURES	RE.1
	TREE REMOVAL	RE.1

FOR INFORMATION ONLY

X-REFS: 11682-001-TTBK
FILE PATH:

SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



DATE	REVISIONS



VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

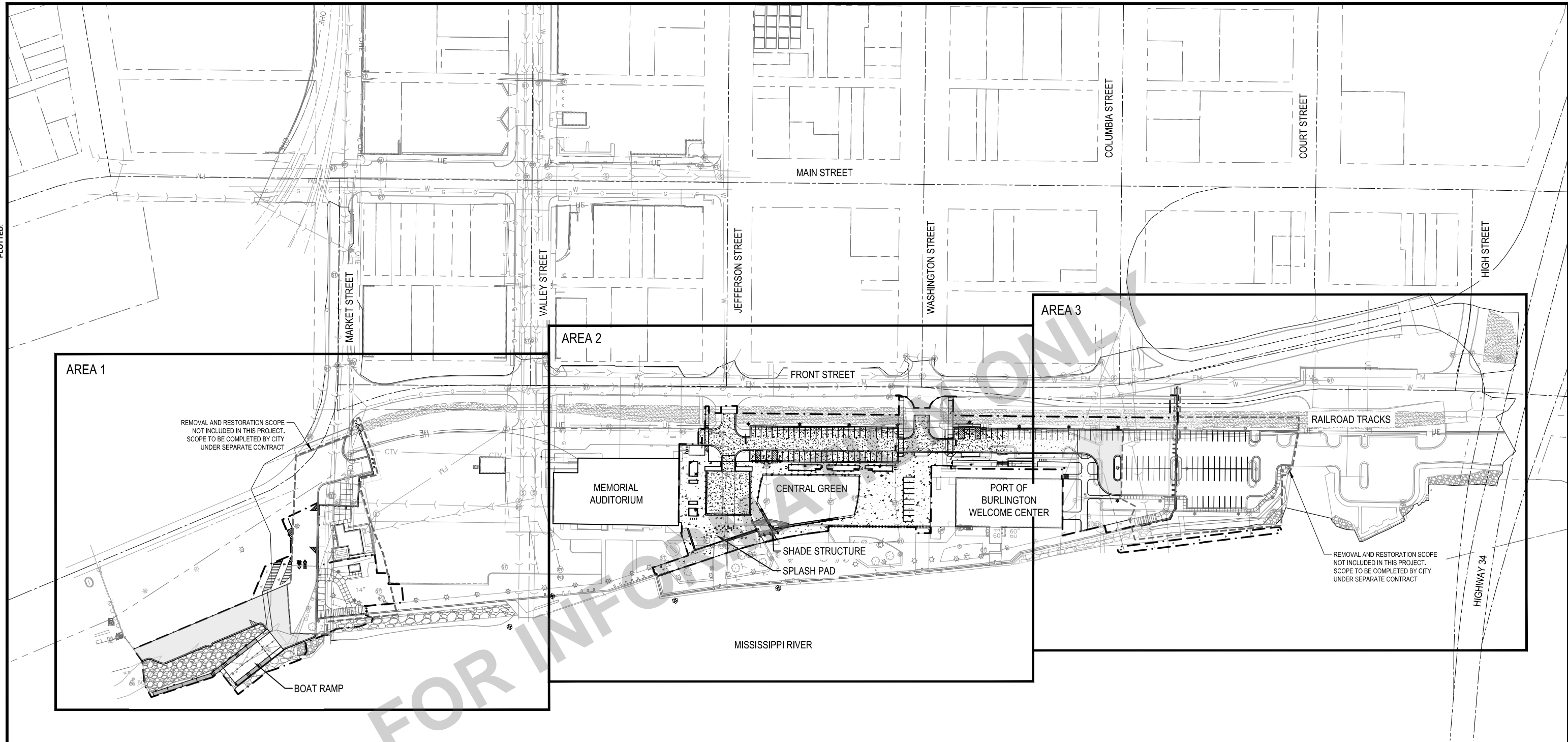
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STANDARD ROAD PLANS & INDEX OF TABULATIONS

DWG. NO.
C.5
PROJECT

PLOTTED:

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-VK-LAYO-RVR & 11682-001-C-SURV-RVR-COMB & 11682-001-C-PHAS
FILE PATH:



SITE LAYOUT LEGEND

- PROJECT LIMITS
- EXISTING PARCEL/ ROW LINE
- CONCRETE PAVEMENT LIGHT DUTY
- CONCRETE PAVEMENT HEAVY DUTY
- ASPHALT PAVEMENT



0' 40' 80' 160'
SCALE: 1"=160'

SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
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<h2 style="margin: 0;">OVERALL SITE LAYOUT</h2>	<p style="margin: 0; font-size: small;">DWG. NO.</p> <h1 style="margin: 0;">D.1</h1> <p style="margin: 0; font-size: x-small;">PROJECT</p>
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SHEET NOTES

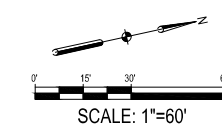
1. SEE JOINTING PLAN, L.1 - L.3, FOR PAVEMENT JOINT LAYOUT.
2. SEE PAVEMENT MARKING AND SIGNAGE PLAN, O.1 - O.3, FOR PAVEMENT MARKING AND SIGNAGE LAYOUT.
3. SEE ELECTRICAL PLAN, E.1 - E.3, FOR SITE LIGHTING.
4. ALL CURB DIMENSIONS GIVEN TO BACK OF CURB.

SITE LAYOUT LEGEND

- PROJECT LIMITS
- EXISTING PARCEL/ ROW LINE
- CONCRETE PAVEMENT LIGHT DUTY (1 UD.1)
- CONCRETE PAVEMENT HEAVY DUTY (2 UD.1)
- ASPHALT PAVEMENT (3 UD.1)
- PAVERS ON CONCRETE BASE (9 UD.1)
- REVETMENT (1 UW.4)
- SHEET PILE TOE STONE (2 UW.4)
- 6" STANDARD CURB, PV-102 (GUTTER SLOPE TOWARDS CURB)
- 6" STANDARD CURB, PV-102 (GUTTER SLOPE AWAY FROM CURB)
- DROP CURB AT SIDEWALK, PV-102
- CURB RAMP
- SEAT WALL (14&15 UD.1)
- FLOOD WALL
- FLUSH BAND (11 UD.1)
- TRENCH DRAIN (12&13 UD.1)
- DETECTABLE WARNING STRIP
- TYPE (L6) LIGHT POLE
- TYPE (L7) LIGHT POLE
- TYPE (L5) LIGHT POLE
- TYPE (L10) MULTI-FLOOD LIGHT POLE
- TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- TYPE (L8) ASYMMETRIC INGRADE LIGHT
- TRASH RECEPTACLE (2 UD.5)
- RECYCLING CONTAINERS
- BIKERACK (3 UD.5)
- BACKED BENCH (1 UD.5)
- BACKLESS BENCH TOP (17 UD.1)
- BACKED BENCH TOP (16 UD.1)
- IRRIGATED PLANTING BED
- IRRIGATED SAND-BASED TURF WITH UNDERDRAIN SYSTEM
- QUICK COUPLER (QC)
- BOLLARD
- WHEEL STOP
- SINGLE POST SIGN

KEYED NOTES

- A FLOODWALL BY OTHERS, NOT INCLUDED IN THIS PROJECT
- B FLOOD WALL FLUSH OPENING
- C MOORING DOLPHIN LOCATION (3), SEE UW.4
- D CURB TRANSITION



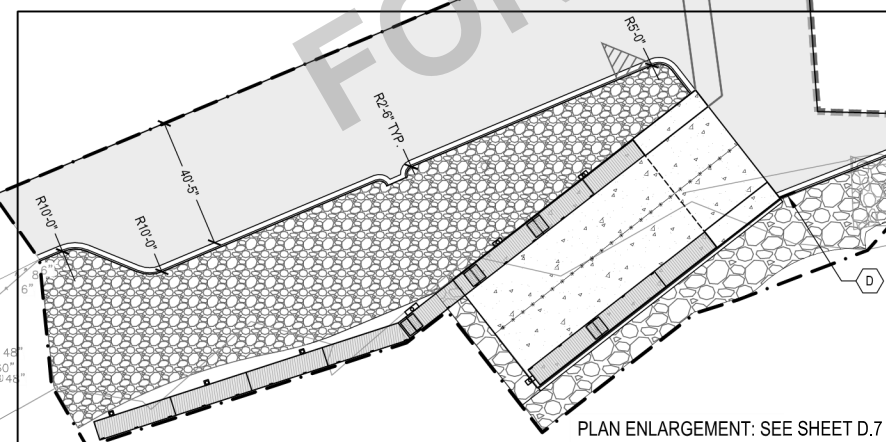
BENCHES			
RIVERFRONT			
QTY	Northing	Easting	Remarks
1	304202.73	2304762.03	BACKED
1	304220.28	2304766.02	BACKED
1	304264.16	2304776.01	BACKED
1	304284.63	2304780.67	BACKED
1	304104.23	2304832.68	BACKED TOP
1	304117.51	2304842.53	BACKED TOP
1	304123.42	2304842.84	BACKLESS TOP
1	304129.33	2304842.96	BACKLESS TOP
1	304186.92	2304846.00	BACKLESS TOP
1	304192.81	2304846.53	BACKLESS TOP
1	304198.72	2304846.53	BACKED TOP
1	304204.60	2304847.15	BACKLESS TOP

DETECTABLE WARNING			
RIVERFRONT			
QTY	Northing	Easting	Remarks
1	304038.39	2304657.25	2'x6'
1	304031.90	2304685.78	2'x6'
1	304048.39	2304719.20	2'x8'
1	304072.76	2304724.75	2'x8'
1	304015.04	2304759.78	2'x72'
1	304042.15	2304802.87	2'x70'
1	304085.24	2304775.76	2'x72'
1	304121.69	2304732.82	2'x36'
1	304360.94	2304675.29	2'x8'
1	304346.24	2304739.85	2'x8'
1	304340.69	2304764.22	2'x8'
1	304439.82	2304692.86	2'x8'
1	304425.03	2304757.79	2'x8'
1	304419.48	2304782.17	2'x8'
1	304459.74	2304747.24	2'x36'
1	304502.98	2304801.18	2'x18'
1	304634.10	2304832.76	2'x10'

BICYCLE RACKS			
RIVERFRONT			
QTY	Northing	Easting	Remarks
4	303998.06	2304685.69	
4	303985.21	2304797.07	
2	304151.13	2304747.72	
2	304325.81	2304787.51	
4	304565.35	2304824.84	

RECEPTACLES, TRASH/RECYCLING			
RIVERFRONT			
QTY	Northing	Easting	Remarks
2	303994.12	2304793.1	1 EACH
2	304209.09	2304758.87	1 EACH
2	304418.86	2304798.41	1 EACH

REMOVAL AND RESTORATION SCOPE NOT INCLUDED IN THIS PROJECT. SCOPE TO BE COMPLETED BY CITY UNDER SEPARATE CONTRACT



X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-WK-LAYO-RVR & 11682-001-C-SURV-RVR-COMB & 11682-000-C-STREETSCAPE-JEFF & 11682-001-C-PHAS
 FILE PATH:

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DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

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DATE	REVISIONS

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VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

SITE LAYOUT - AREA 1

DWG. NO.
D.2
 PROJECT

SHEET NOTES

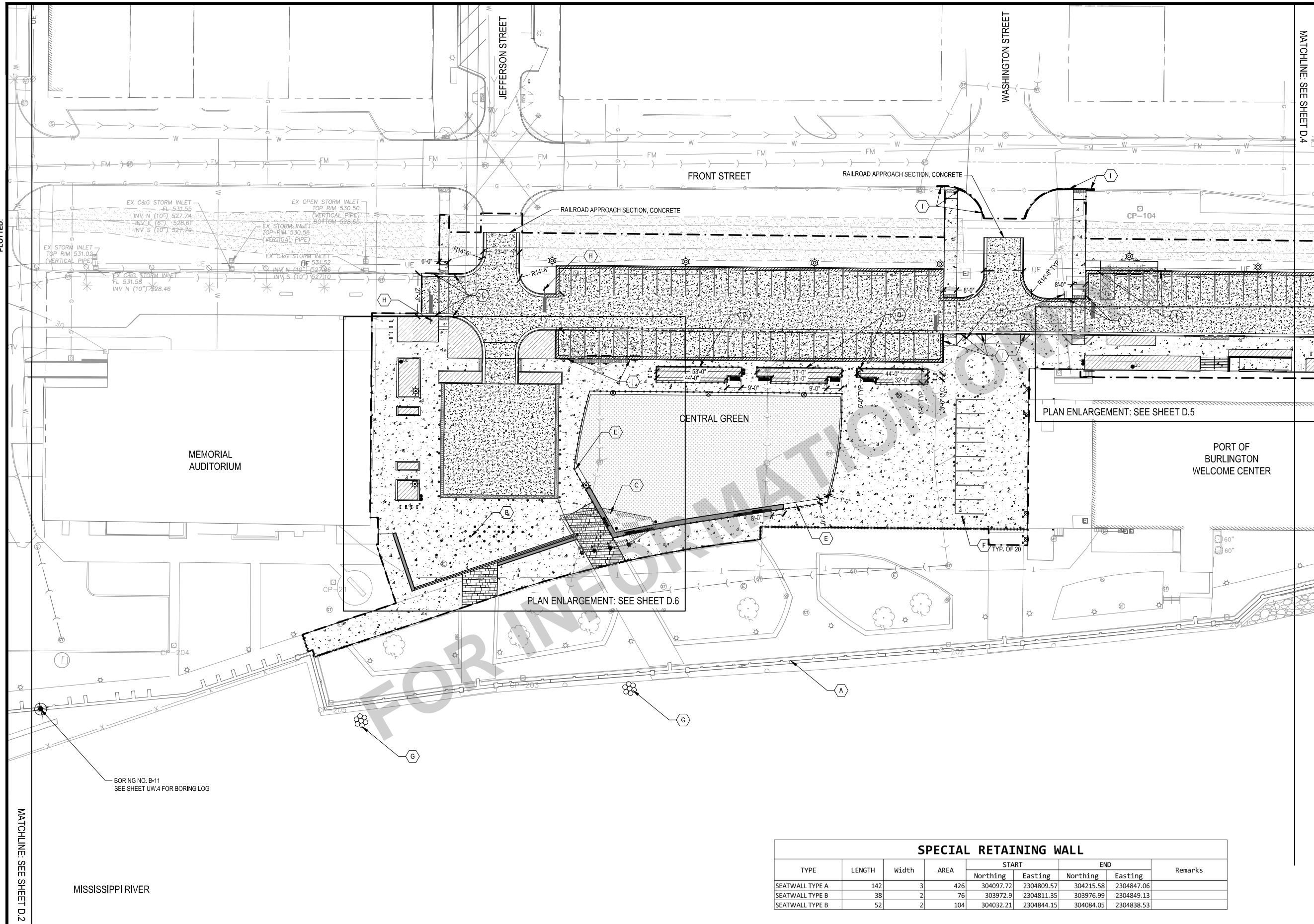
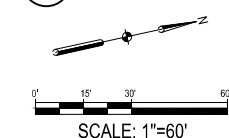
- SEE JOINTING PLAN, L.1 - L.3, FOR PAVEMENT JOINT LAYOUT.
- SEE PAVEMENT MARKING AND SIGNAGE PLAN, O.1 - O.3, FOR PAVEMENT MARKING AND SIGNAGE LAYOUT.
- SEE ELECTRICAL PLAN, E.1 - E.3, FOR SITE LIGHTING.
- ALL CURB DIMENSIONS GIVEN TO BACK OF CURB.

SITE LAYOUT LEGEND

- PROJECT LIMITS
- - - EXISTING PARCEL/ ROW LINE
- [Pattern] CONCRETE PAVEMENT LIGHT DUTY (1 UD.1)
- [Pattern] CONCRETE PAVEMENT HEAVY DUTY (2 UD.1)
- [Pattern] ASPHALT PAVEMENT (3 UD.1)
- [Pattern] PAVERS ON CONCRETE BASE (9 UD.1)
- [Pattern] REVETMENT (1 UW.4)
- [Pattern] SHEET PILE TOE STONE (2 UW.4)
- [Pattern] 6" STANDARD CURB, PV-102 (GUTTER SLOPE TOWARDS CURB)
- [Pattern] 6" STANDARD CURB, PV-102 (GUTTER SLOPE AWAY FROM CURB)
- [Pattern] DROP CURB AT SIDEWALK, PV-102
- [Pattern] CURB RAMP
- [Pattern] SEAT WALL (14&15 UD.1)
- [Pattern] FLOOD WALL
- [Pattern] FLUSH BAND (11 UD.1)
- [Pattern] TRENCH DRAIN (12&13 UD.1)
- [Pattern] DETECTABLE WARNING STRIP
- [Symbol] TYPE (L6) LIGHT POLE
- [Symbol] TYPE (L7) LIGHT POLE
- [Symbol] TYPE (L5) LIGHT POLE
- [Symbol] TYPE (L10) MULTI-FLOOD LIGHT POLE
- [Symbol] TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- [Symbol] TYPE (L8) ASYMMETRIC INGRADE LIGHT
- [Symbol] TRASH RECEPTACLE (2 UD.5)
- [Symbol] RECYCLING CONTAINERS
- [Symbol] BIKERACK (3 UD.5)
- [Symbol] BACKED BENCH (1 UD.5)
- [Symbol] BACKLESS BENCH TOP (17 UD.1)
- [Symbol] BACKED BENCH TOP (16 UD.1)
- [Pattern] IRRIGATED PLANTING BED
- [Pattern] IRRIGATED SAND-BASED TURF WITH UNDERDRAIN SYSTEM
- [Symbol] QC QUICK COUPLER
- [Symbol] BOLLARD
- [Symbol] WHEEL STOP
- [Symbol] SINGLE POST SIGN

KEYED NOTES

- (A) EXISTING FLOODWALL
- (B) SPLASH PLAY ZONE, SEE D.6 SHEET
- (C) SHADE STRUCTURE, SEE SHEETS US.9-US.16
- (D) BEAM CURB, PV-102
- (E) FLUSH BAND, PV-102 (11 UD.1)
- (F) BOLLARD (6 UD.4)
- (G) MOORING DOLPHIN (3) (3 UW.4)
- (H) STOP SIGN
- (I) CURB TRANSITION



SPECIAL RETAINING WALL								
TYPE	LENGTH	Width	AREA	START		END		Remarks
				Northing	Easting	Northing	Easting	
SEATWALL TYPE A	142	3	426	304097.72	2304809.57	304215.58	2304847.06	
SEATWALL TYPE B	38	2	76	303972.9	2304811.35	303976.99	2304849.13	
SEATWALL TYPE B	52	2	104	304032.21	2304844.15	304084.05	2304838.53	

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-C-SURV-RIVR-COMB & 11682-000-C-STREETScape-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-PHAS
 FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
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DATE REVISIONS

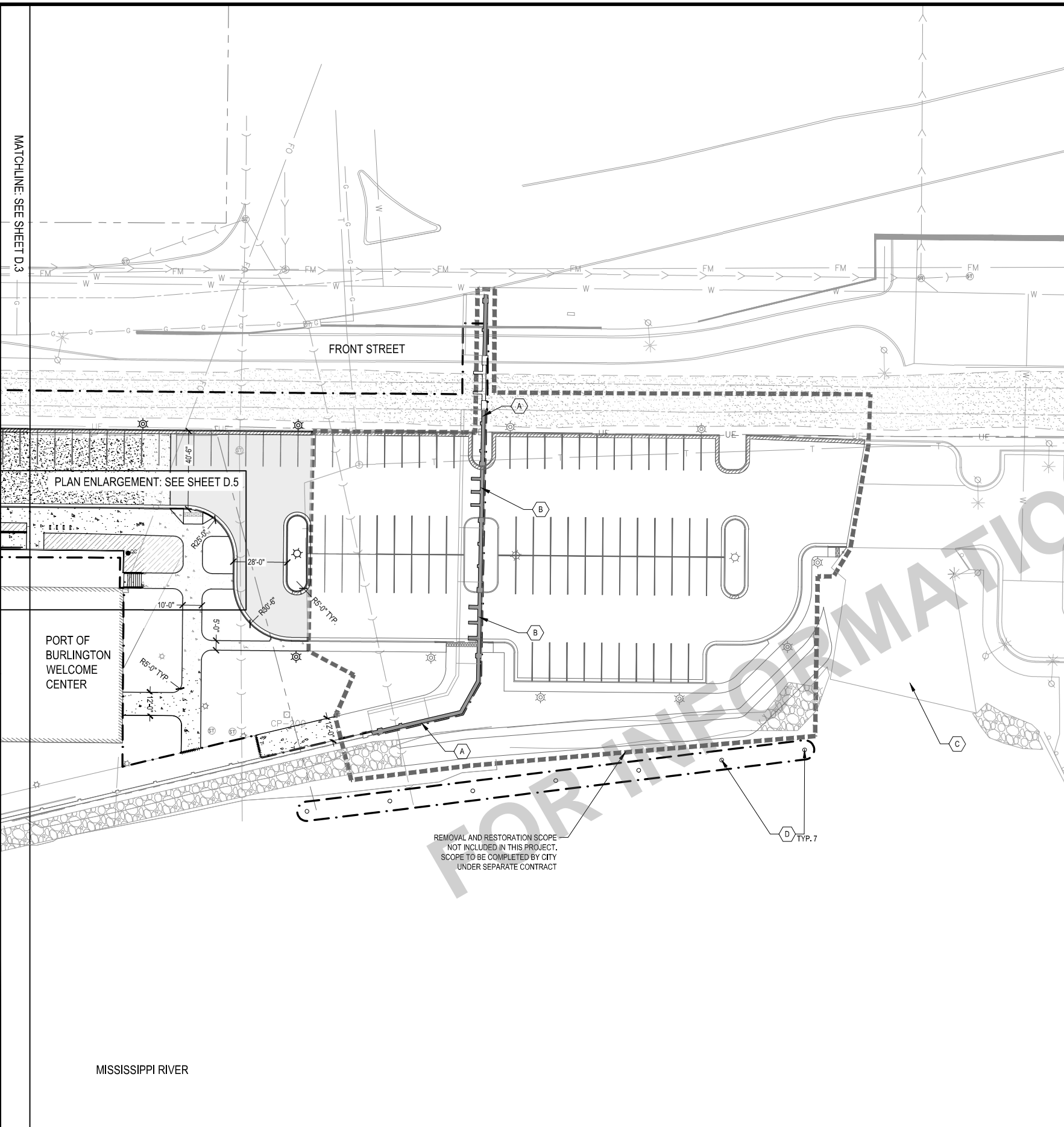
V&K

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SITE LAYOUT - AREA 2
 DWG. NO. D.3
 PROJECT

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-C-SURV-RIVR-COMB & 11682-000-C-STREETScape-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-PHAS FILE PATH:



PAVEMENT

RIVERFRONT - AREA 1								
PAVMENT TYPE	AREA (SY)	GRANULAR SUBBASE (SY)			HMA (TON)			Remarks
		6 IN.	10 IN.	12 IN.	BASE COURSE	SURFACE COURSE	BINDER	
CONCRETE HEAVY DUTY	0	0	0	0	0	0	0	
CONCRETE LIGHT DUTY	0	0	0	0	0	0	0	
ASPHALT	1382	0	1382	0	152	152	18	

RIVERFRONT - AREA 2								
PAVMENT TYPE	AREA (SY)	GRANULAR SUBBASE (SY)			HMA (TON)			Remarks
		6 IN.	10 IN.	12 IN.	BASE COURSE	SURFACE COURSE	BINDER	
CONCRETE HEAVY DUTY	3243	0	0	3243	0	0	0	
CONCRETE LIGHT DUTY	3915	3915	0	0	0	0	0	
ASPHALT	0	0	0	0	0	0	0	

RIVERFRONT - AREA 3								
PAVMENT TYPE	AREA (SY)	GRANULAR SUBBASE (SY)			HMA (TON)			Remarks
		6 IN.	10 IN.	12 IN.	BASE COURSE	SURFACE COURSE	BINDER	
CONCRETE HEAVY DUTY	300	0	0	300	0	0	0	
CONCRETE LIGHT DUTY	453	453	0	0	0	0	0	
ASPHALT	524	0	524	0	58	58	7	

CURBS & GUTTER

RIVERFRONT - AREA 1						
CURB TYPE	LENGTH	START		END		Remarks
		Northing	Easting	Northing	Easting	
Standard	226	303052.62	2304833.43	303262.30	2304825.74	
Standard	61	303282.74	2304863.62	303340.60	2304849.58	
Drop	87	303345.60	2304826.45	303365.83	2304741.61	

RIVERFRONT - AREA 2						
CURB TYPE	LENGTH	START		END		Remarks
		Northing	Easting	Northing	Easting	
Standard	11	304024.53	2304655.09	304035.25	2304657.55	
Drop	6	304035.25	2304657.55	304041.10	2304658.90	
Standard	41	304041.10	2304658.90	304067.85	2304638.27	
Standard	335	304090.27	2304643.38	304342.12	2304739.94	
Drop	8	304342.12	2304739.94	304349.92	2304741.71	
Standard	49	304349.92	2304741.71	304374.77	2304708.48	
Standard	5	304352.64	2304671.20	304357.56	2304672.11	
Drop	8	304357.56	2304672.11	304365.06	2304675.20	
Standard	26	304365.06	2304675.20	304376.87	2304696.66	
Standard	5	304448.76	2304694.12	304443.94	2304692.79	
Drop	8	304443.94	2304692.79	304436.14	2304691.00	
Standard	39	304436.14	2304691.00	304402.60	2304702.52	
Standard	63	304399.15	2304714.04	304420.91	2304757.88	
Drop	8	304420.91	2304757.88	304428.71	2304759.66	
Standard	28	304428.71	2304759.66	304441.97	2304744.21	
Drop	36	304441.97	2304744.21	304477.07	2304752.21	
Standard	86	304477.07	2304752.21	304560.97	2304771.31	
Standard	42	303988.21	2304674.79	304029.20	2304684.12	
Drop	6	304029.20	2304684.12	304035.04	2304685.48	
Standard	38	304035.04	2304685.48	304050.24	2304715.52	
Drop	8	304050.24	2304715.52	304048.47	2304723.32	
Drop	8	304070.90	2304728.43	304072.68	2304720.63	
Standard	62	304072.68	2304720.63	304104.37	2304727.84	
Drop	36	304104.37	2304727.84	304139.47	2304735.84	
Standard	216	304139.47	2304735.84	304337.01	2304762.36	
Drop	8	304337.01	2304762.36	304344.81	2304764.14	
Standard	18	304344.81	2304764.14	304362.71	2304768.21	
Drop	22	304362.71	2304768.21	304384.16	2304773.10	
Standard	32	304384.16	2304773.10	304415.80	2304780.31	
Drop	8	304415.80	2304780.31	304423.60	2304782.08	
Standard	73	304423.60	2304782.08	304494.43	2304798.21	
Drop	18	304494.43	2304798.21	304511.98	2304802.21	
Standard	41	304511.98	2304802.21	304552.24	2304811.38	
Beam	74	303998.92	2304704.34	303998.92	2304704.34	Planter/Island
Beam	35	303992.07	2304734.45	303992.07	2304734.45	Planter/Island
Beam	35	303984.41	2304768.09	303984.41	2304768.09	Planter/Island
Beam	50	303981.86	2304779.30	303981.86	2304779.30	Planter/Island
Beam	68	304022.04	2304717.81	304022.04	2304717.81	Planter/Island
Beam	68	304070.79	2304728.91	304070.79	2304728.91	Planter/Island
Beam	123	304156.51	2304744.33	304156.51	2304744.33	Planter/Island
Beam	123	304217.93	2304758.32	304217.93	2304758.32	Planter/Island
Beam	105	304279.36	2304772.31	304279.36	2304772.31	Planter/Island
Drop	243	304099.59	2304708.29	304336.52	2304762.25	

RIVERFRONT - AREA 3						
CURB TYPE	LENGTH	START		END		Remarks
		Northing	Easting	Northing	Easting	
Standard	147	304560.97	2304771.31	304784.53	2304839.66	
Standard	80	304552.24	2304811.38	304629.82	2304829.04	
Drop	10	304629.82	2304829.04	304639.20	2304832.90	
Standard	100	304639.20	2304832.90	304678.51	2304909.87	
Standard	89	304680.70	2304848.83	304680.70	2304848.83	Planter/Island

SHEET NOTES

- SEE JOINTING PLAN, L.1 - L.3, FOR PAVEMENT JOINT LAYOUT.
- SEE PAVEMENT MARKING AND SIGNAGE PLAN, O.1 - O.3, FOR PAVEMENT MARKING AND SIGNAGE LAYOUT.
- SEE ELECTRICAL PLAN, E.1 - E.3, FOR SITE LIGHTING.
- ALL CURB DIMENSIONS GIVEN TO BACK OF CURB.

SITE LAYOUT LEGEND

- PROJECT LIMITS
- - - EXISTING PARCEL/ ROW LINE
- CONCRETE PAVEMENT LIGHT DUTY (1 UD.1)
- CONCRETE PAVEMENT HEAVY DUTY (2 UD.1)
- ASPHALT PAVEMENT (3 UD.1)
- PAVERS ON CONCRETE BASE (9 UD.1)
- REVETMENT (1 UW.4)
- SHEET PILE TOE STONE (2 UW.4)
-
-
- DROP CURB AT SIDEWALK, PV-102
- CURB RAMP
- SEAT WALL (148.15 UD.1)
- FLOOD WALL
- FLUSH BAND (11 UD.1)
- TRENCH DRAIN (128.13 UD.1)
- DETECTABLE WARNING STRIP
- TYPE (L6) LIGHT POLE
- TYPE (L7) LIGHT POLE
- TYPE (L5) LIGHT POLE
- TYPE (L10) MULTI-FLOOD LIGHT POLE
- TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- TYPE (L8) ASYMMETRIC INGRADE LIGHT
- TRASH RECEPTACLE (2 UD.5)
- RECYCLING CONTAINERS
- BIKERACK (3 UD.5)
- BACKED BENCH (1 UD.5)
- BACKLESS BENCH TOP (17 UD.1)
- BACKED BENCH TOP (16 UD.1)
- IRRIGATED PLANTING BED
- IRRIGATED SAND-BASED TURF WITH UNDERDRAIN SYSTEM
- QUICK COUPLER
- BOLLARD
- WHEEL STOP
- SINGLE POST SIGN

KEYED NOTES

- (A)** FLOODWALL BY OTHERS, NOT INCLUDED IN THIS PROJECT
- (B)** FLOOD WALL FLUSH OPENING
- (C)** EXISTING BOAT RAMP
- (D)** REPLACEMENT PILE LOCATION.
 - PROVIDE STRUCTURAL DRAWINGS FOR A MISSISSIPPI RIVER STEEL PILE INSTALLATION. (SIGNED BY P.E.)
 - SEE BORING LOG (UW.4) FOR SOIL INFORMATION NEAR LOCATION. SEE GEOTECHNICAL REPORT FOR ADDITIONAL BORINGS.
 - MWL = NORMAL POOL ELEVATION OF 521' M.S.L.
 - DOLPHIN PILE DEPTH ESTIMATED TO BE 20' BELOW RIVER BOTTOM ELEVATION OF 500' M.S.L.
 - PILES SHALL BE 8' Ø STEEL PILES COMPLYING WITH ASTM A252 GRADE 3 (45ksi).

SCALE: 1"=60'

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	1"
DATE 04/12/2021	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE _____ REVISIONS _____



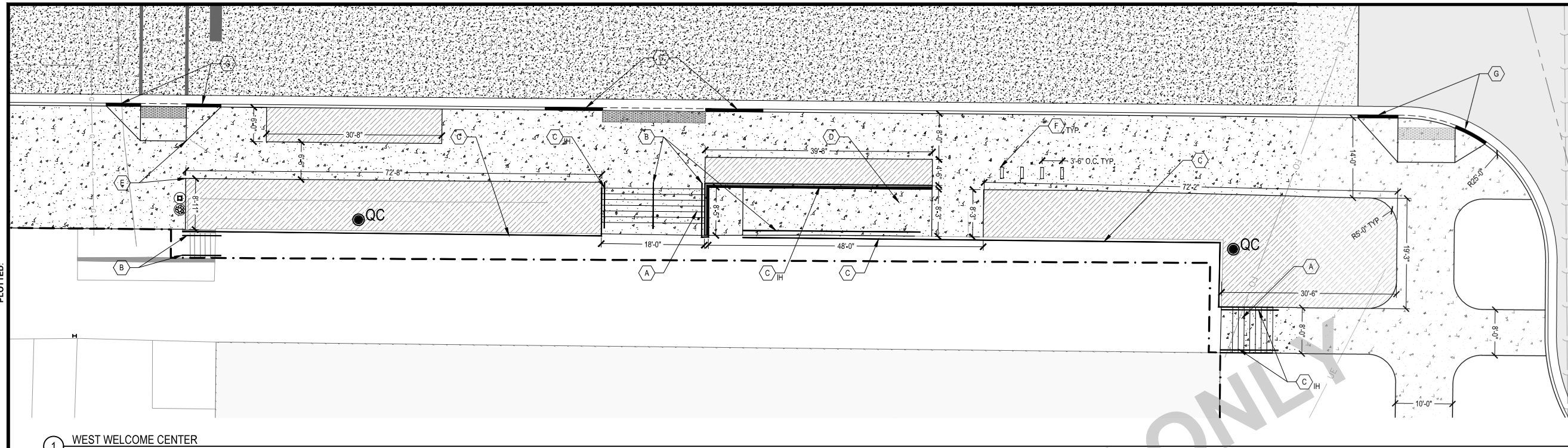
PROJECT #: EDP-0977(653)-7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

DWG. NO. **D.4**

PROJECT **SITE LAYOUT - AREA 3**

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-C-SURV-RIVR-COMB & 11682-001-C-LAYO-RIVR & 11682-001-VK-LAYO-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-PHAS
 FILE PATH:



1 WEST WELCOME CENTER

FOR INFORMATION ONLY

SHEET NOTES

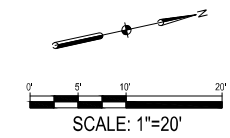
- SEE JOINTING PLAN, L.1 - L.3, FOR PAVEMENT JOINT LAYOUT.
- SEE PAVEMENT MARKING AND SIGNAGE PLAN, O.1 - O.3, FOR PAVEMENT MARKING AND SIGNAGE LAYOUT.

SITE LAYOUT LEGEND

- PROJECT LIMITS
- - - EXISTING PARCEL/ ROW LINE
- [Pattern] CONCRETE PAVEMENT LIGHT DUTY (1 UD.1)
- [Pattern] CONCRETE PAVEMENT HEAVY DUTY (2 UD.1)
- [Pattern] ASPHALT PAVEMENT (3 UD.1)
- [Pattern] PAVERS ON CONCRETE BASE (9 UD.1)
- [Pattern] REVETMENT (1 UW.4)
- [Pattern] SHEET PILE TOE STONE (2 UW.4)
- [Symbol] 6" STANDARD CURB, PV-102 (GUTTER SLOPE TOWARDS CURB)
- [Symbol] 6" STANDARD CURB, PV-102 (GUTTER SLOPE AWAY FROM CURB)
- [Symbol] DROP CURB AT SIDEWALK, PV-102
- [Symbol] CURB RAMP
- [Symbol] SEAT WALL (14&15 UD.1)
- [Symbol] FLOOD WALL
- [Symbol] FLUSH BAND (11 UD.1)
- [Symbol] TRENCH DRAIN (12&13 UD.1)
- [Symbol] DETECTABLE WARNING STRIP
- [Symbol] TYPE (L6) LIGHT POLE
- [Symbol] TYPE (L7) LIGHT POLE
- [Symbol] TYPE (L5) LIGHT POLE
- [Symbol] TYPE (L10) MULTI-FLOOD LIGHT POLE
- [Symbol] TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- [Symbol] TYPE (L8) ASYMMETRIC INGRADE LIGHT
- [Symbol] TRASH RECEPTACLE (2 UD.5)
- [Symbol] RECYCLING CONTAINERS
- [Symbol] BIKERACK (3 UD.5)
- [Symbol] BACKED BENCH (1 UD.5)
- [Symbol] BACKLESS BENCH TOP (17 UD.1)
- [Symbol] BACKED BENCH TOP (16 UD.1)
- [Pattern] IRRIGATED PLANTING BED
- [Pattern] IRRIGATED SAND-BASED TURF WITH UNDERDRAIN SYSTEM
- [Symbol] QC QUICK COUPLER
- [Symbol] BOLLARD
- [Symbol] WHEEL STOP
- [Symbol] SINGLE POST SIGN

KEYED NOTES

- [A] CONCRETE STAIRS (1 UD.3)
- [B] STEEL PIPE PEDESTRIAN HAND RAILING (2 UD.3)
- [C] ORNAMENTAL METAL RAILING, PEDESTRIAN GUARDRAIL (1-10 UD.2)
- [C^{1H}] ORNAMENTAL METAL RAILING, PEDESTRIAN GUARDRAIL WITH INTEGRAL HANDRAIL
- [D] CONCRETE RAMP AND RETAINING WALL (1-5 UD.4)
- [E] ALIGN PLANTER WITH CURB RAMP
- [F] BIKE RACK
- [G] CURB TRANSITION



SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE	REVISIONS

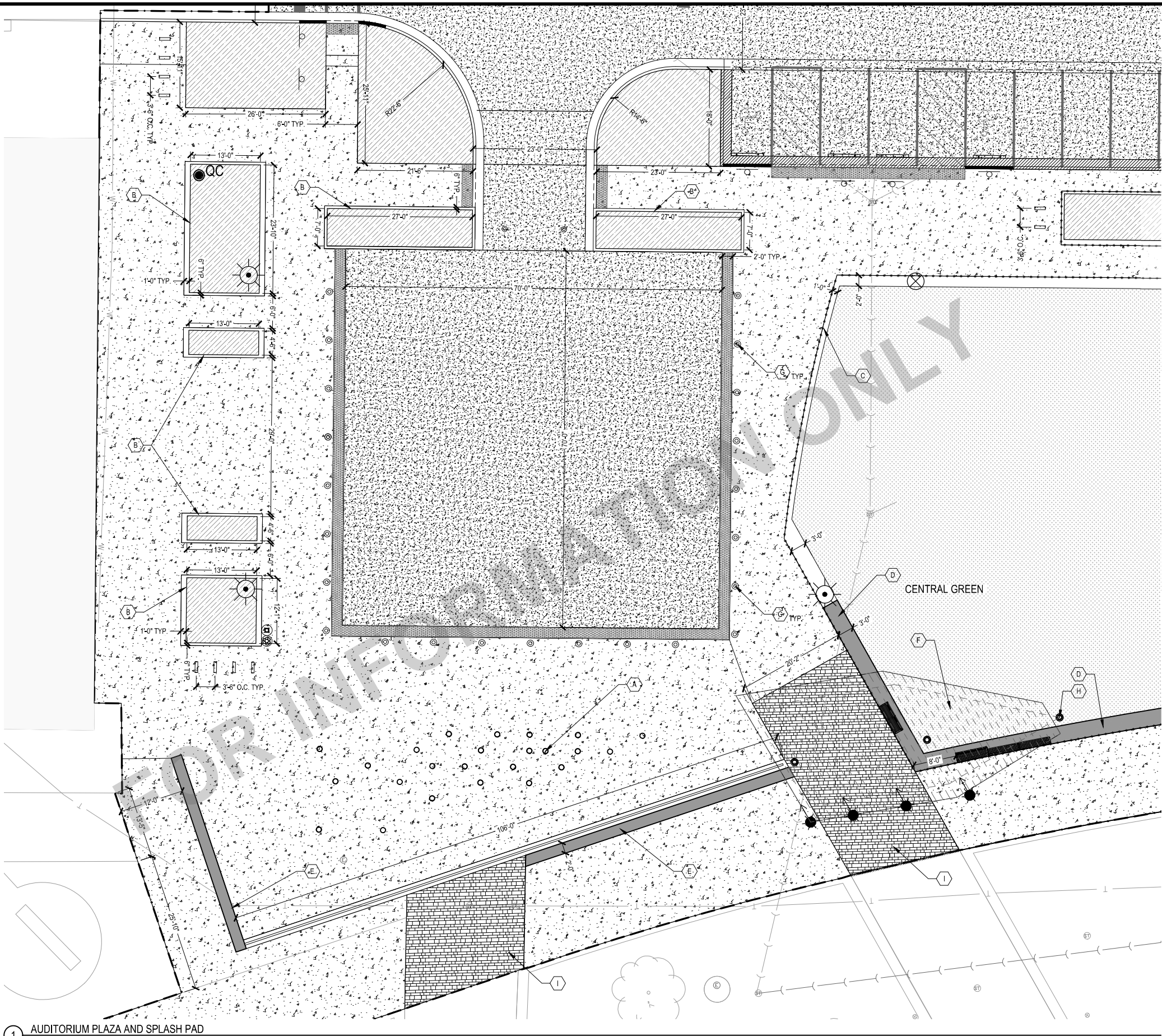
VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)-7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA
 1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

LAYOUT ENLARGEMENTS

DWG. NO.
D.5
PROJECT

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-VK-LAYO-RVR & 11682-000-C-STREETScape-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-PHAS
 FILE PATH:



1 AUDITORIUM PLAZA AND SPLASH PAD

SHEET NOTES

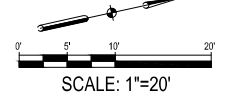
- SEE JOINTING PLAN, L.1 - L.3, FOR PAVEMENT JOINT LAYOUT.
- SEE PAVEMENT MARKING AND SIGNAGE PLAN, O.1 - O.3, FOR PAVEMENT MARKING AND SIGNAGE LAYOUT.

SITE LAYOUT LEGEND

- PROJECT LIMITS
- - - EXISTING PARCEL/ ROW LINE
- [Pattern] CONCRETE PAVEMENT LIGHT DUTY (1 UD.1)
- [Pattern] CONCRETE PAVEMENT HEAVY DUTY (2 UD.1)
- [Pattern] ASPHALT PAVEMENT (3 UD.1)
- [Pattern] PAVERS ON CONCRETE BASE (9 UD.1)
- [Pattern] REVETMENT (1 UW.4)
- [Pattern] SHEET PILE TOE STONE (2 UW.4)
- [Symbol] 6" STANDARD CURB, PV-102 (GUTTER SLOPE TOWARDS CURB)
- [Symbol] 6" STANDARD CURB, PV-102 (GUTTER SLOPE AWAY FROM CURB)
- [Symbol] DROP CURB AT SIDEWALK, PV-102
- [Symbol] CURB RAMP
- [Symbol] SEAT WALL (14&15 UD.1)
- [Symbol] FLOOD WALL
- [Symbol] FLUSH BAND (11 UD.1)
- [Symbol] TRENCH DRAIN (12&13 UD.1)
- [Symbol] DETECTABLE WARNING STRIP
- [Symbol] TYPE (L6) LIGHT POLE
- [Symbol] TYPE (L7) LIGHT POLE
- [Symbol] TYPE (L5) LIGHT POLE
- [Symbol] TYPE (L10) MULTI-FLOOD LIGHT POLE
- [Symbol] TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- [Symbol] TYPE (L8) ASYMMETRIC INGRADE LIGHT
- [Symbol] TRASH RECEPTACLE (2 UD.5)
- [Symbol] RECYCLING CONTAINERS
- [Symbol] BIKERACK (3 UD.5)
- [Symbol] BACKED BENCH (1 UD.5)
- [Symbol] BACKLESS BENCH TOP (17 UD.1)
- [Symbol] BACKED BENCH TOP (16 UD.1)
- [Pattern] IRRIGATED PLANTING BED
- [Pattern] IRRIGATED SAND-BASED TURF WITH UNDERDRAIN SYSTEM
- [Symbol] QC QUICK COUPLER
- [Symbol] BOLLARD
- [Symbol] WHEEL STOP
- [Symbol] SINGLE POST SIGN

KEYED NOTES

- (A) SPLASH PLAY ZONE
- (B) BEAM CURB, PV-102
- (C) FLUSH BAND (11 UD.1)
- (D) SEAT WALL TYPE A (14 UD.1)
- (E) SEAT WALL TYPE B (15 UD.1)
- (F) SHADE STRUCTURE, SEE SHEETS U.9-U.16
- (G) BOLLARD (6 UD.4)
- (H) SHADE COLUMN A3, SEE SHEET D.9 FOR COLUMN SCHEDULE
- (I) PAVER PATTERN TO ALIGN WITH EXISTING PAVERS



SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE REVISIONS

VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)-7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

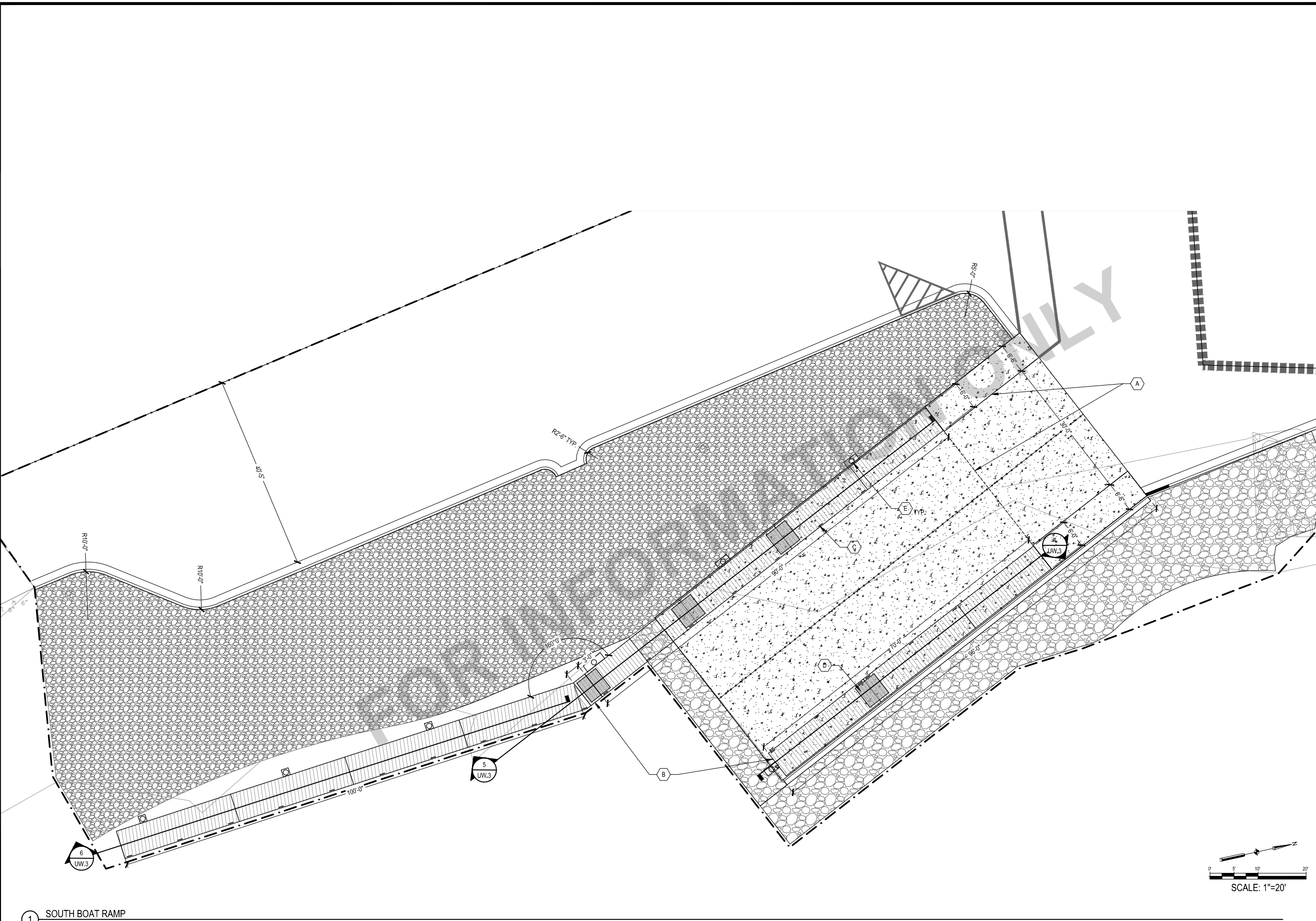
1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

LAYOUT ENLARGEMENTS

DWG. NO.
D.6

PROJECT

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-WK-LAYO-RVR & 11682-001-C-SURV-RVR-COMB & 11682-000-C-STREETSCAPE-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-PHAS
 FILE PATH:



SHEET NOTES

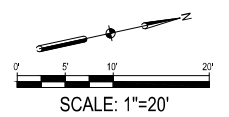
- SEE JOINTING PLAN, L.1 - L.3, FOR PAVEMENT JOINT LAYOUT.
- SEE PAVEMENT MARKING AND SIGNAGE PLAN, O.1 - O.3, FOR PAVEMENT MARKING AND SIGNAGE LAYOUT.

SITE LAYOUT LEGEND

- PROJECT LIMITS
- - - EXISTING PARCEL/ ROW LINE
- [Pattern] CONCRETE PAVEMENT LIGHT DUTY (1 UD.1)
- [Pattern] CONCRETE PAVEMENT HEAVY DUTY (2 UD.1)
- [Pattern] ASPHALT PAVEMENT (3 UD.1)
- [Pattern] PAVERS ON CONCRETE BASE (9 UD.1)
- [Pattern] REVETMENT (1 UW.4)
- [Pattern] SHEET PILE TOE STONE (2 UW.4)
- [Pattern] 6" STANDARD CURB, PV-102 (GUTTER SLOPE TOWARDS CURB)
- [Pattern] 6" STANDARD CURB, PV-102 (GUTTER SLOPE AWAY FROM CURB)
- [Pattern] DROP CURB AT SIDEWALK, PV-102
- [Pattern] CURB RAMP
- [Pattern] SEAT WALL (14&15 UD.1)
- [Pattern] FLOOD WALL
- [Pattern] FLUSH BAND (11 UD.1)
- [Pattern] TRENCH DRAIN (12&13 UD.1)
- [Pattern] DETECTABLE WARNING STRIP
- [Symbol] TYPE (L6) LIGHT POLE
- [Symbol] TYPE (L7) LIGHT POLE
- [Symbol] TYPE (L5) LIGHT POLE
- [Symbol] TYPE (L10) MULTI-FLOOD LIGHT POLE
- [Symbol] TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- [Symbol] TYPE (L8) ASYMMETRIC INGRADE LIGHT
- [Symbol] TRASH RECEPTACLE (2 UD.5)
- [Symbol] RECYCLING CONTAINERS
- [Symbol] BIKERACK (3 UD.5)
- [Symbol] BACKED BENCH (1 UD.5)
- [Symbol] BACKLESS BENCH TOP (17 UD.1)
- [Symbol] BACKED BENCH TOP (16 UD.1)
- [Pattern] IRRIGATED PLANTING BED
- [Pattern] IRRIGATED SAND-BASED TURF WITH UNDERDRAIN SYSTEM
- [Symbol] QC QUICK COUPLER
- [Symbol] BOLLARD
- [Symbol] WHEEL STOP
- [Symbol] SINGLE POST SIGN

KEYED NOTES

- (A) SOUTH BOAT RAMP (1 UW.2)
- (B) COURTESY DOCKS
- (C) MOORING CLEATS, 12" MAX. SPACING (2 UW.3)
- (D) TRANSITION PLATE, TYP. SEE DOCKAGE NOTE 1 ON DETAIL 1 / SHEET UW.3
- (E) ANCHOR /GUIDE PILE



1 SOUTH BOAT RAMP

SCALE	1"=20'
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SMITHGROUP

DATE	REVISIONS

V&K
VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA
 1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

LAYOUT ENLARGEMENTS

DWG. NO.	D.7
PROJECT	

EARTHWORK			
RIVERFRONT - AREA 1			
TYPE	CY	Remarks	
FILL	888		
CUT	526		
RIVERFRONT - AREA 2			
TYPE	CY	Remarks	
FILL	965		
CUT	1208		
RIVERFRONT - AREA 3			
TYPE	CY	Remarks	
CUT	366		
FILL	72		
OVERALL NET FILL (EMBANKMENT)	413		

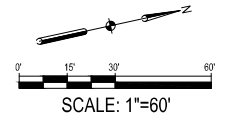
REMOVAL AND RESTORATION SCOPE NOT INCLUDED IN THIS PROJECT. SCOPE TO BE COMPLETED BY CITY UNDER SEPARATE CONTRACT

GRADING LEGEND

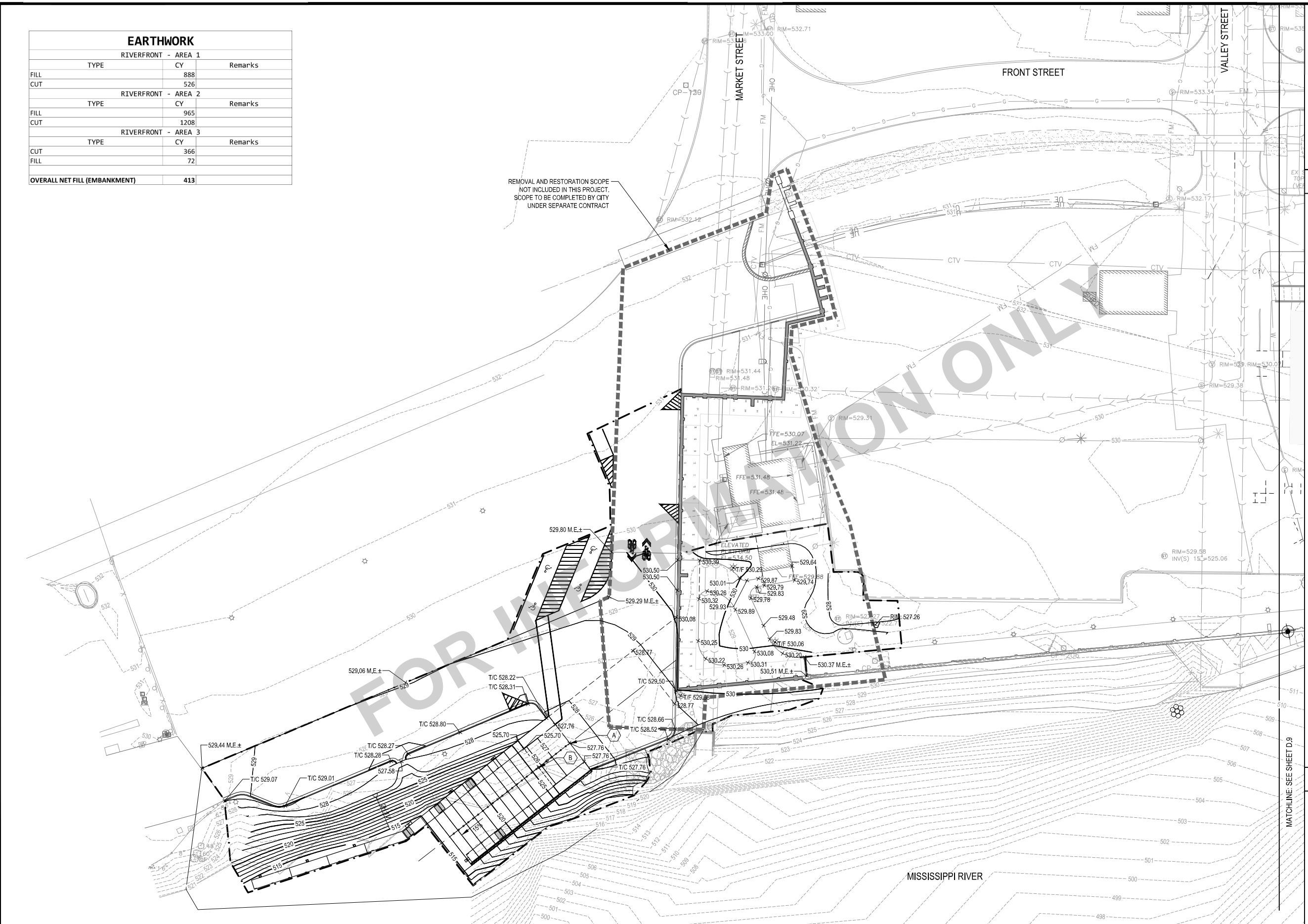
- 530 --- EXISTING MAJOR CONTOUR
- 531 --- EXISTING MINOR CONTOUR
- 531.80 x EXISTING SPOT ELEVATION
- 530 — PROPOSED MAJOR CONTOUR
- 529 — PROPOSED MINOR CONTOUR
- - - GRADING LIMITS
- - - GRADE BREAK LINE
- - - PROJECT LIMITS
- 2.5% → DRAINAGE SLOPE
- - - DRAINAGE SWALE
- FLOW DIRECTION
- 861.50 x PROPOSED SPOT ELEVATION
- 861.50 M.E. APPROX. SPOT ELEVATION: MATCH EXISTING GRADE
- RIM 861.50 STRUCTURE RIM ELEVATION
- T/C 861.50 TOP OF CURB ELEVATION
- G/C 861.50 GUTTER OF CURB ELEVATION
- E/P 861.50 EDGE OF PAVEMENT ELEVATION
- T/W 861.50 TOP OF WALL ELEVATION
- B/W 861.50 BOTTOM OF WALL ELEVATION
- FIL 861.50 FLOW LINE ELEVATION
- HP 861.50 HIGH POINT ELEVATION
- LP 861.50 LOW POINT ELEVATION
- ☉ TYPE (L6) LIGHT POLE
- ☉ TYPE (L7) LIGHT POLE
- ☉ TYPE (L5) LIGHT POLE
- ☉ TYPE (L10) MULTI-FLOOD LIGHT POLE
- ☉ TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- ☉ TYPE (L8) ASYMMETRIC INGRADE LIGHT
- ☐ TRASH RECEPTACLE
- ☉ RECYCLING CONTAINERS
- QC QUICK COUPLER
- BOLLARD
- WHEEL STOP
- SINGLE POST SIGN

KEYED NOTES

- (A) BEGIN VERTICAL CURVE, SEE PROFILE, DETAIL 1 / SHEET UW.1
- (B) END VERTICAL CURVE



X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-PRCL-BNDY & 11682-V-SURV-C-GRAD & 11682-001-C-UTL & 11682-001-C-SURV-RIVR-COMB & 11682-001-VK-LAYO-RVR & 11682-001-C-PHAS
 FILE PATH:



SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

DATE	REVISIONS

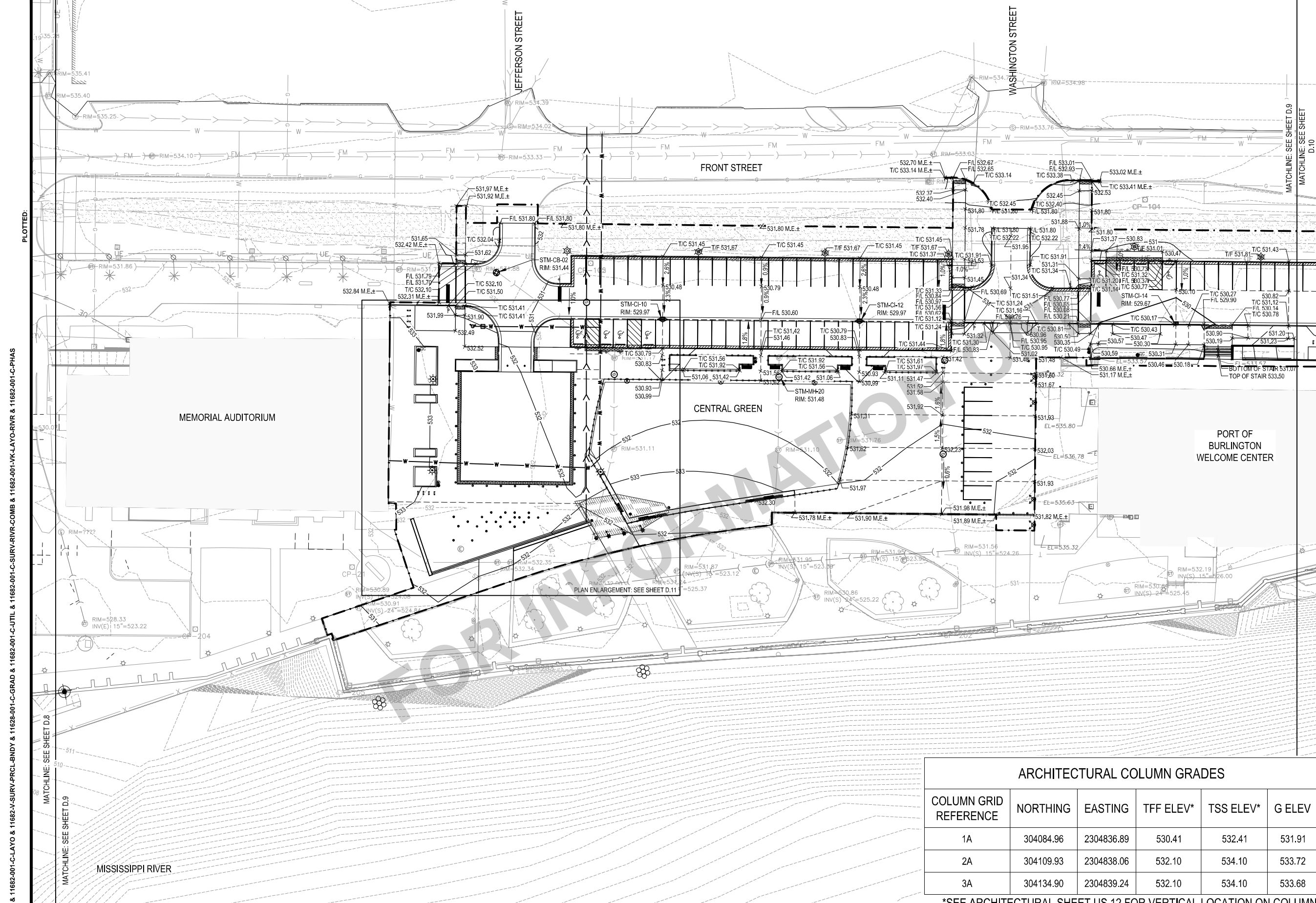
SMITHGROUP

VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)-7Y-29
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GRADING PLAN - AREA 1

DWG. NO.	D.8
PROJECT	



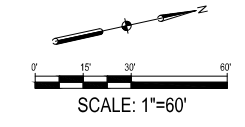
GRADING LEGEND

- 530 --- EXISTING MAJOR CONTOUR
- 531 --- EXISTING MINOR CONTOUR
- 531.80 \times EXISTING SPOT ELEVATION
- 530 --- PROPOSED MAJOR CONTOUR
- 529 --- PROPOSED MINOR CONTOUR
- GRADING LIMITS
- - - GRADE BREAK LINE
- - - PROJECT LIMITS
- 2.5% > DRAINAGE SLOPE
- - - DRAINAGE SWALE
- > FLOW DIRECTION
- 861.50 \times PROPOSED SPOT ELEVATION
- 861.50 M.E. APPROX. SPOT ELEVATION: MATCH EXISTING GRADE
- RIM 861.50 STRUCTURE RIM ELEVATION
- T/C 861.50 TOP OF CURB ELEVATION
- G/C 861.50 GUTTER OF CURB ELEVATION
- E/P 861.50 EDGE OF PAVEMENT ELEVATION
- T/W 861.50 TOP OF WALL ELEVATION
- B/W 861.50 BOTTOM OF WALL ELEVATION
- FL 861.50 FLOW LINE ELEVATION
- HP 861.50 HIGH POINT ELEVATION
- LP 861.50 LOW POINT ELEVATION
- ☉ TYPE (L6) LIGHT POLE
- ☉ TYPE (L7) LIGHT POLE
- ☉ TYPE (L5) LIGHT POLE
- ☉ TYPE (L10) MULTI-FLOOD LIGHT POLE
- ☉ TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- ☉ TYPE (L8) ASYMMETRIC INGRADE LIGHT
- ☐ TRASH RECEPTACLE
- ☉ RECYCLING CONTAINERS
- QC QUICK COUPLER
- BOLLARD
- WHEEL STOP
- SINGLE POST SIGN

ARCHITECTURAL COLUMN GRADES

COLUMN GRID REFERENCE	NORTHING	EASTING	TFF ELEV*	TSS ELEV*	G ELEV
1A	304084.96	2304836.89	530.41	532.41	531.91
2A	304109.93	2304838.06	532.10	534.10	533.72
3A	304134.90	2304839.24	532.10	534.10	533.68

*SEE ARCHITECTURAL SHEET US.12 FOR VERTICAL LOCATION ON COLUMN.



X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-PRCL-BNDY & 11682-001-C-GRAD & 11682-001-C-UTIL & 11682-001-C-SURV-RIVR-COMB & 11682-001-C-LAYO-RVR & 11682-001-C-PHAS
 FILE PATH:

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DATE 04/12/2021	
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DATE REVISIONS

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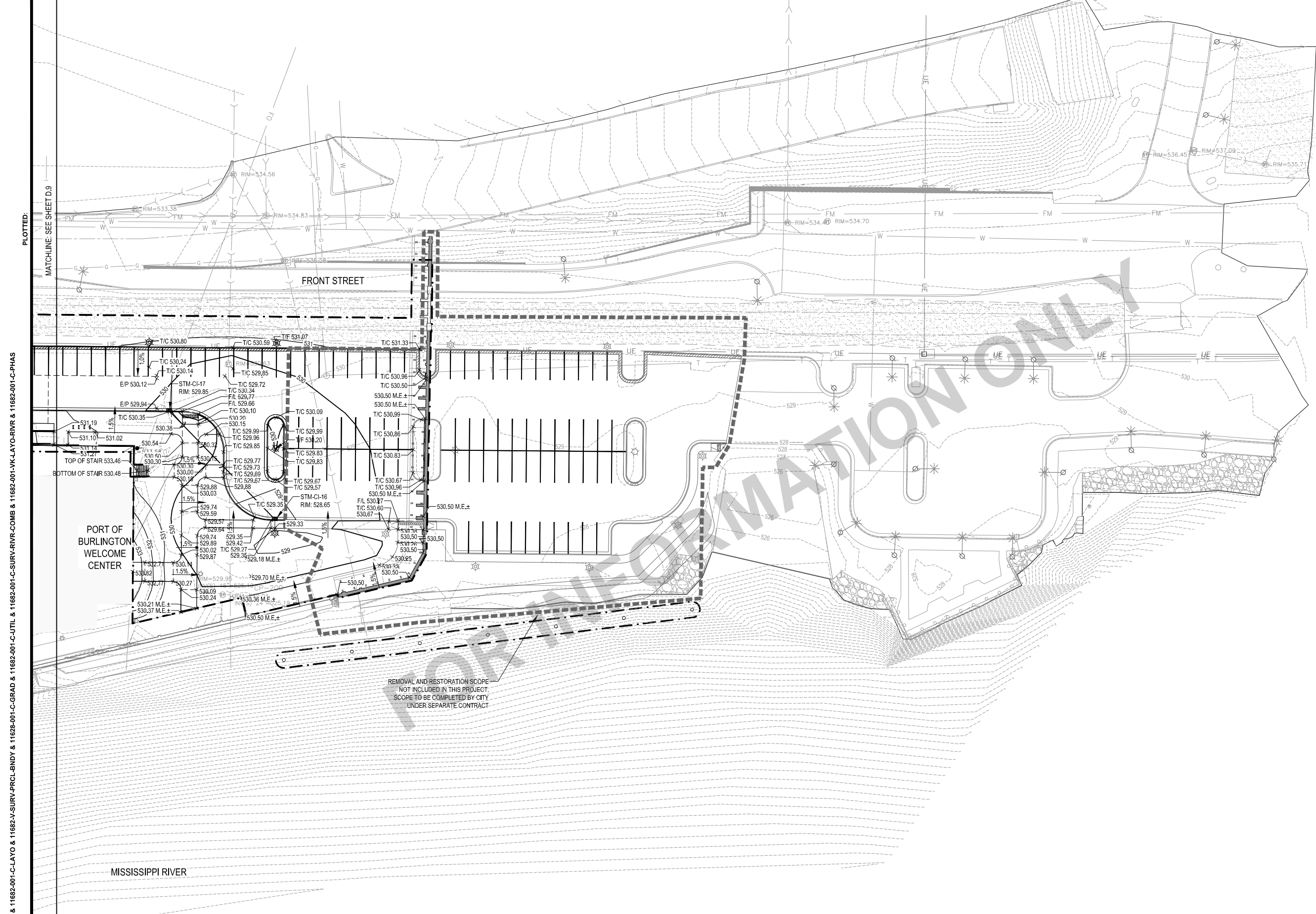
VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA
 1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

GRADING PLAN - AREA 2

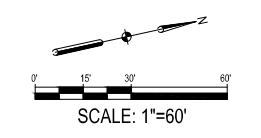
DWG. NO. D.9

PROJECT



GRADING LEGEND

- 530 --- EXISTING MAJOR CONTOUR
- 531 --- EXISTING MINOR CONTOUR
- 531.80 x EXISTING SPOT ELEVATION
- 530 — PROPOSED MAJOR CONTOUR
- 529 — PROPOSED MINOR CONTOUR
- GRADING LIMITS
- - - GRADE BREAK LINE
- - - PROJECT LIMITS
- 2.5% → DRAINAGE SLOPE
- - - DRAINAGE SWALE
- FLOW DIRECTION
- 861.50 x PROPOSED SPOT ELEVATION
- 861.50 M.E. APPROX. SPOT ELEVATION: MATCH EXISTING GRADE
- RIM 861.50 STRUCTURE RIM ELEVATION
- T/C 861.50 TOP OF CURB ELEVATION
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- T/W 861.50 TOP OF WALL ELEVATION
- B/W 861.50 BOTTOM OF WALL ELEVATION
- F/L 861.50 FLOW LINE ELEVATION
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- ☉ TYPE (L9) 2 FLOOD LIGHT MOUNTED TO EXISTING POLE
- ☉ TYPE (L8) ASYMMETRIC INGRADE LIGHT
- ☐ TRASH RECEPTACLE
- ☉ RECYCLING CONTAINERS
- QC QUICK COUPLER
- BOLLARD
- WHEEL STOP
- SINGLE POST SIGN



X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-PRCL-BNDY & 11628-001-C-GRAD & 11682-001-C-UTIL & 11682-001-C-SURV-RIVR-COMB & 11682-001-VK-LAYO-RVR & 11682-001-C-PHAS
 FILE PATH:

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APPROVED	
DATE 04/12/2021	
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DATE	REVISIONS

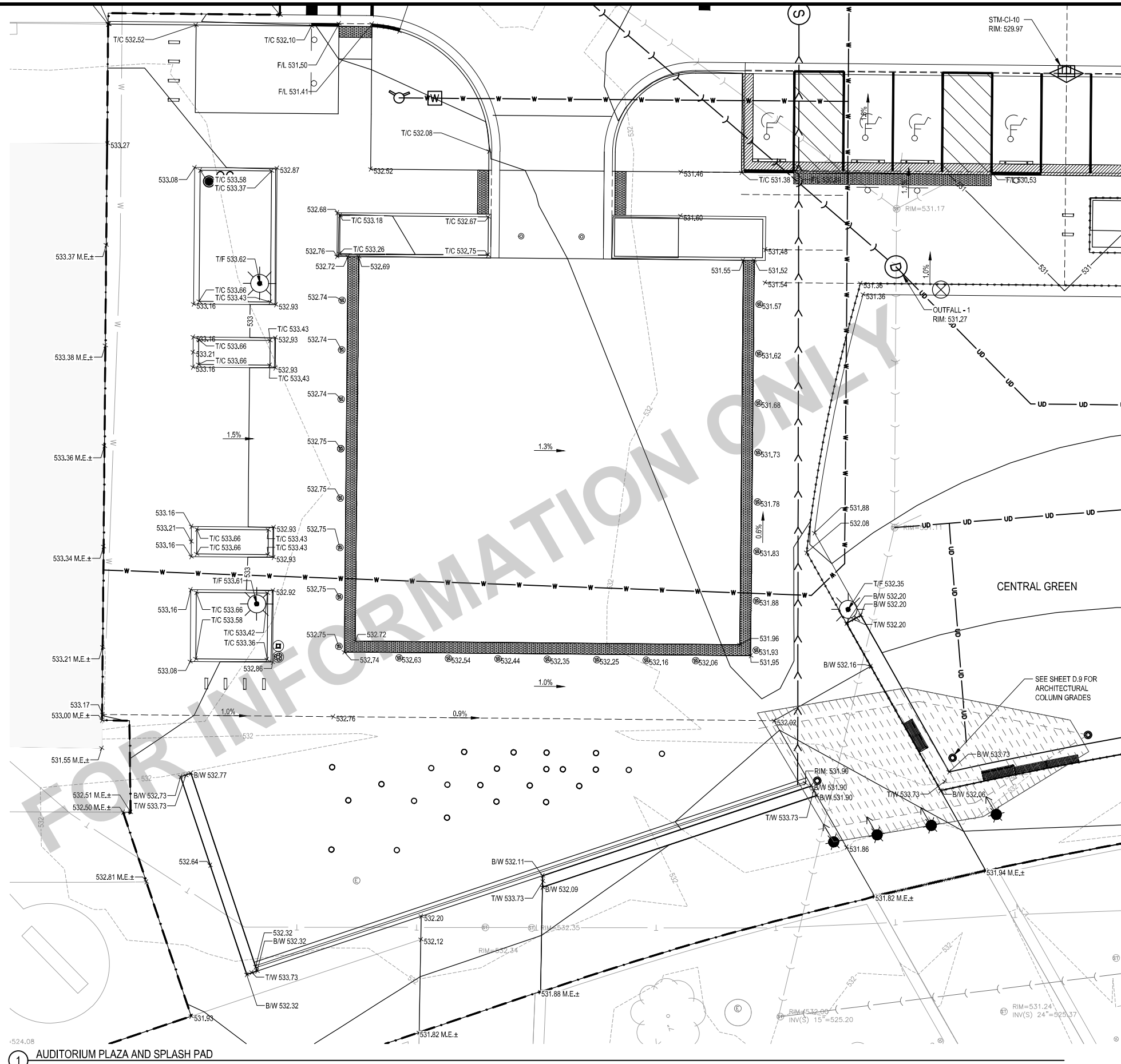


VEENSTRA & KIMM, INC.

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 309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

<h2 style="margin: 0;">GRADING PLAN - AREA 3</h2>	<table border="1"> <tr> <td style="font-size: small;">DWG. NO.</td> <td style="text-align: center;">D.10</td> </tr> <tr> <td style="font-size: x-small;">PROJECT</td> <td> </td> </tr> </table>	DWG. NO.	D.10	PROJECT	
DWG. NO.	D.10				
PROJECT					

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-PRCL-BNDY & 11628-001-C-GRAD & 11682-001-C-UTIL & 11682-001-C-SURV-RIVR-COMB & 11682-001-VK-LAYO-RIVR & 11682-001-C-PHAS
 FILE PATH:



GRADING LEGEND

- 530--- EXISTING MAJOR CONTOUR
- 531--- EXISTING MINOR CONTOUR
- 531.80 X EXISTING SPOT ELEVATION
- 530— PROPOSED MAJOR CONTOUR
- 529— PROPOSED MINOR CONTOUR
- — — GRADING LIMITS
- - - - GRADE BREAK LINE
- - - - PROJECT LIMITS
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- ☉ TYPE (L8) ASYMMETRIC INGRADE LIGHT
- ☐ TRASH RECEPTACLE
- ☉ RECYCLING CONTAINERS
- QC QUICK COUPLER
- BOLLARD
- WHEEL STOP
- SINGLE POST SIGN

SCALE: 1"=20'

1 AUDITORIUM PLAZA AND SPLASH PAD

SCALE		VERIFY SCALE
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VEENSTRA & KIMM, INC.

DATE	REVISIONS

PROJECT #: EDP-0977(653)--7Y-29

DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT

CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201

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GRADING ENLARGEMENTS

DWG. NO.

D.11

PROJECT

GENERAL NOTES:

- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- COORDINATE EXACT LOCATION OF FIXTURES WITH GENERAL CONTRACTOR, OWNER AND ENGINEER PRIOR TO ROUGH-IN.
- UNDERGROUND CONDUIT ROUTING IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO DICTATE EXACT LOCATION. CONTRACTOR IS TO DETERMINE BEST ROUTING BASED ON OTHER UTILITIES AND FIELD CONDITIONS.
- CONTRACTOR SHALL INSTALL UNDERGROUND PULL BOXES AS NECESSARY FOR A COMPLETE INSTALLATION.

DESCRIPTION	QUANTITY
LIGHTING POLES (L5) COMPLETE	3
LIGHTING POLES (L6) COMPLETE	9
LIGHTING POLE/FIXTURE (L6) ONLY	7
LIGHTING POLES (L7) COMPLETE	1
LIGHTING POLE/FIXTURE (L7) ONLY	3
LIGHTING FIXTURE (L8) COMPLETE	3
LIGHTING FIXTURE (L9) COMPLETE	4
LIGHTING POLE (L10) COMPLETE	4

EXISTING PARKING LOT AREA LIGHT POLE TO BE SHIFTED SOUTH. CONTRACTOR SHALL UTILIZE POLE BASE CONSTRUCTED AS PART OF FLOOD WALL PROJECT FOR INSTALLATION OF CITY SUPPLIED LIGHT POLE.

APPROXIMATE LOCATION OF UNDERGROUND CONDUIT INSTALLED AS PART OF FLOOD WALL PROJECT. CONTRACTOR SHALL INSTALL FIELD WIRING SCHEDULED AND TIE NEW LIGHT FIXTURE(S) INTO EXISTING CIRCUIT. P-11

APPROXIMATE LOCATION OF UNDERGROUND CONDUIT INSTALLED AS PART OF FLOOD WALL PROJECT. CONTRACTOR SHALL INSTALL FIELD WIRING SCHEDULED AND TIE NEW LIGHT FIXTURE(S) INTO EXISTING CIRCUIT. P-11

EXISTING PARKING LOT AREA LIGHT POLE, TO REMAIN UNLESS NOTED OTHERWISE (TYP).

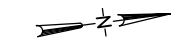
EXISTING DECORATE LIGHT POLE BEING RELOCATED TO NEW BASE SHOWN AND DESCRIBED IN PLAN NOTE 1.

EXISTING DECORATE LIGHT POLE. ALL EXISTING RIVERFRONT LIGHTS NOT IDENTIFIED IN REMOVAL PLANS SHALL REMAIN. (TYP)

EXISTING DECORATE LIGHT POLE. ALL EXISTING RIVERFRONT LIGHTS TO REMAIN. (TYP)

ARROW DEPICTS PHOTO ORIENTATION

PHOTO REFERENCE SYMBOL. REFER TO SHEET E.6



SCALE: 1" = 60'-0"

PLAN NOTES: ⊗

- EXISTING LIGHT POLE BASE CONSTRUCTED AS PART OF FLOOD WALL PROJECT. CONTRACTOR SHALL UTILIZE POLE BASE AND EXISTING FIELD CONDUIT FOR INSTALLATION OF CITY SUPPLIED LIGHT POLE. CONTRACTOR SHALL BE RESPONSIBLE FOR NEW FIELD WIRING.
- EXISTING LIGHT POLE BASE CONSTRUCTED AS PART OF FLOOD WALL PROJECT, FOR FUTURE USE.

PLOTTED: *PLOTTED_DATE*

X-REFS: Riverfront Merged Topo - UPDATED 2.27.2020 & 2020-0604_11682-001-C-LAYO (02) & Riverfront Merged Topo & 11682-001-C-LAYO
FILE PATH: *DWG_LOCATION*

MATCH LINE: SEE SHEET E.2

SCALE	JDL	VERIFY SCALE
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APPROVED	LF	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE	04/02/2021	
ISSUED FOR	BID DOCUMENTS	

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DATE: _____ REVISIONS: _____

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VEENSTRA & KIMM, INC.

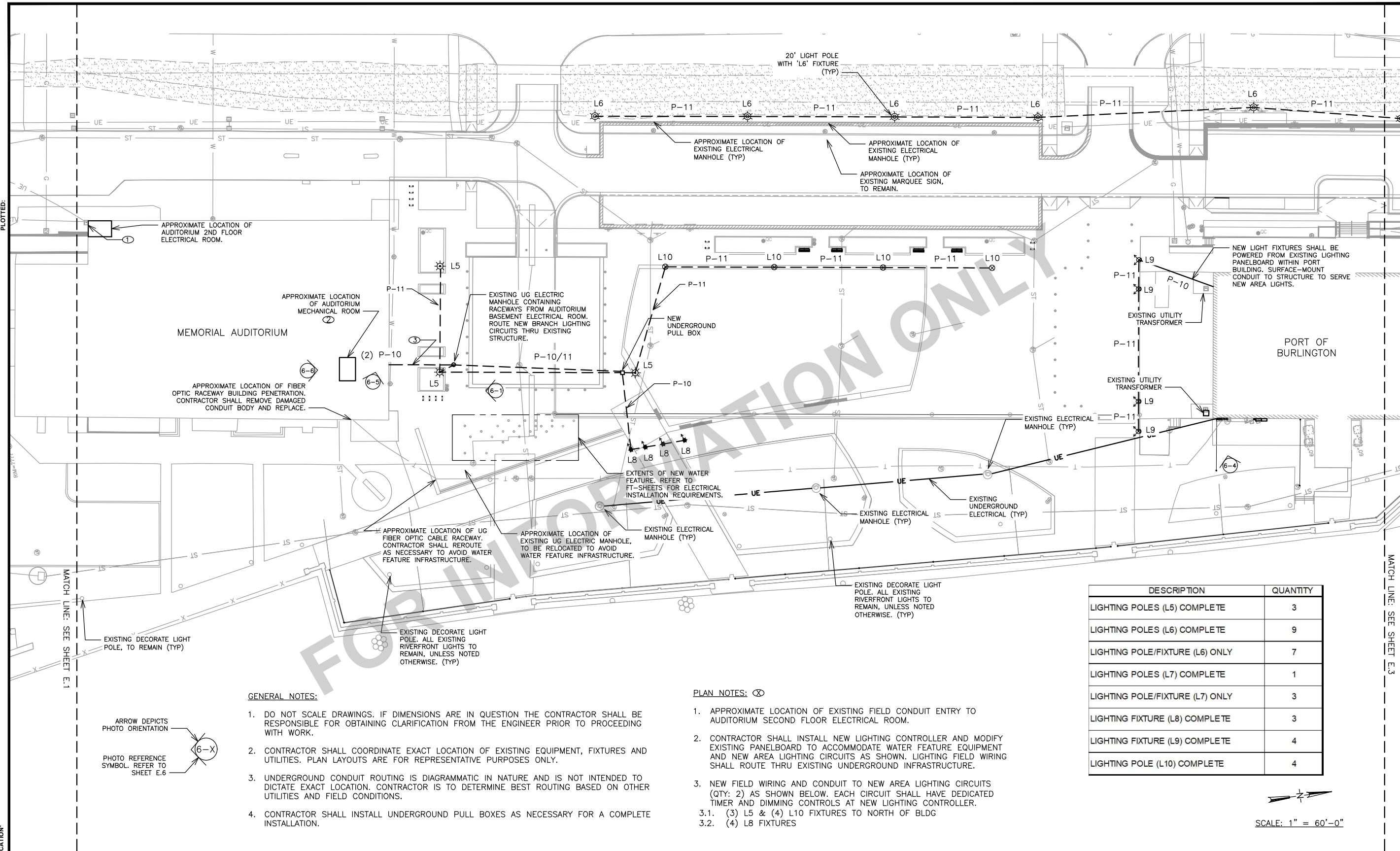
PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
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SITE ELECTRICAL PLAN - AREA 1

DWG. NO.
E.1

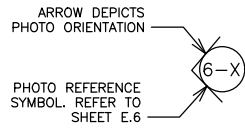
PROJECT 28024



PLOTTED:

MATCH LINE: SEE SHEET E.3

X-REFS: Riverfront Merged Topo - UPDATED 2.27.2020 & 2020-0604_11682-001-C-LAYO (082) & Riverfront Merged Topo & 11682-001-C-LAYO
FILE PATH: "DWG_LOCATION"



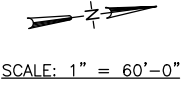
GENERAL NOTES:

- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EXISTING EQUIPMENT, FIXTURES AND UTILITIES. PLAN LAYOUTS ARE FOR REPRESENTATIVE PURPOSES ONLY.
- UNDERGROUND CONDUIT ROUTING IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO DICTATE EXACT LOCATION. CONTRACTOR IS TO DETERMINE BEST ROUTING BASED ON OTHER UTILITIES AND FIELD CONDITIONS.
- CONTRACTOR SHALL INSTALL UNDERGROUND PULL BOXES AS NECESSARY FOR A COMPLETE INSTALLATION.

PLAN NOTES: ☒

- APPROXIMATE LOCATION OF EXISTING FIELD CONDUIT ENTRY TO AUDITORIUM SECOND FLOOR ELECTRICAL ROOM.
- CONTRACTOR SHALL INSTALL NEW LIGHTING CONTROLLER AND MODIFY EXISTING PANELBOARD TO ACCOMMODATE WATER FEATURE EQUIPMENT AND NEW AREA LIGHTING CIRCUITS AS SHOWN. LIGHTING FIELD WIRING SHALL ROUTE THRU EXISTING UNDERGROUND INFRASTRUCTURE.
- NEW FIELD WIRING AND CONDUIT TO NEW AREA LIGHTING CIRCUITS (QTY: 2) AS SHOWN BELOW. EACH CIRCUIT SHALL HAVE DEDICATED TIMER AND DIMMING CONTROLS AT NEW LIGHTING CONTROLLER.
 - (3) L5 & (4) L10 FIXTURES TO NORTH OF BLDG
 - (4) L8 FIXTURES

DESCRIPTION	QUANTITY
LIGHTING POLES (L5) COMPLETE	3
LIGHTING POLES (L6) COMPLETE	9
LIGHTING POLE/FIXTURE (L6) ONLY	7
LIGHTING POLES (L7) COMPLETE	1
LIGHTING POLE/FIXTURE (L7) ONLY	3
LIGHTING FIXTURE (L8) COMPLETE	3
LIGHTING FIXTURE (L9) COMPLETE	4
LIGHTING POLE (L10) COMPLETE	4



SCALE	JDL
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APPROVED	LFF
DATE	04/02/2021
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DATE _____ REVISIONS _____

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VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

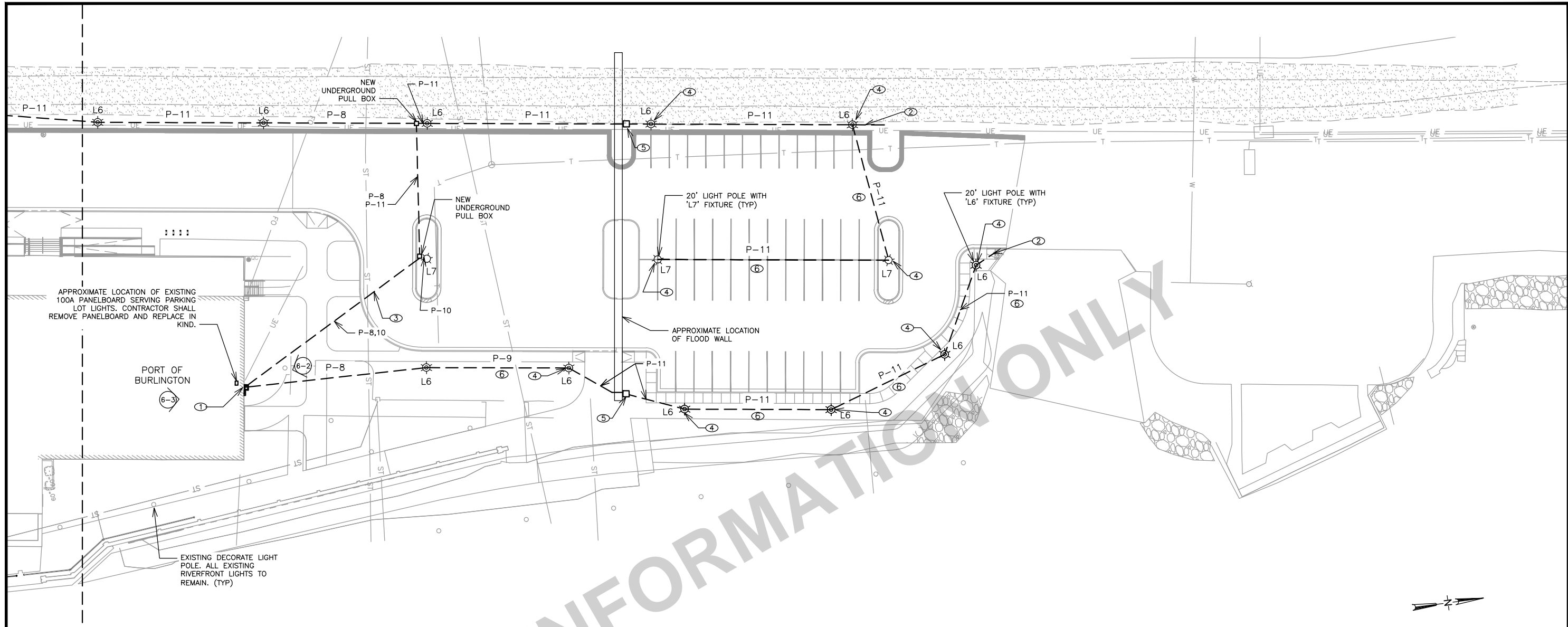
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309-786-7590 • 309-797-0996(FAX) • 877-241-8010(WATS)

SITE ELECTRICAL PLAN - AREA 2

DWG. NO. **E.2**

PROJECT 28024

X-REFS: Riverfront Merged Topo - UPDATED 2.27.2020 & 2020-0604_11682-001-C-LAYO (02) & Riverfront Merged Topo & 11682-001-C-LAYO
FILE PATH: "DWG_LOCATION"



SCALE: 1" = 60'-0"

DESCRIPTION	QUANTITY
LIGHTING POLES (L5) COMPLETE	3
LIGHTING POLES (L6) COMPLETE	9
LIGHTING POLE/FIXTURE (L6) ONLY	7
LIGHTING POLES (L7) COMPLETE	1
LIGHTING POLE/FIXTURE (L7) ONLY	3
LIGHTING FIXTURE (L8) COMPLETE	3
LIGHTING FIXTURE (L9) COMPLETE	4
LIGHTING POLE (L10) COMPLETE	4

GENERAL NOTES:

- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- COORDINATE EXACT LOCATION OF FIXTURES WITH GENERAL CONTRACTOR, OWNER AND ENGINEER PRIOR TO ROUGH-IN.
- UNDERGROUND CONDUIT ROUTING IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO DICTATE EXACT LOCATION. CONTRACTOR IS TO DETERMINE BEST ROUTING BASED ON OTHER UTILITIES AND FIELD CONDITIONS.
- CONTRACTOR SHALL INSTALL UNDERGROUND PULL BOXES AS NECESSARY FOR A COMPLETE INSTALLATION.

PLAN NOTES:

- LOCATION OF EXISTING LIGHTING CONTROLS AND POWER DISCONNECT, TO BE DEMOLISHED. CONTRACTOR SHALL INSTALL NEW LIGHTING CONTROLS (LCP-1) TO SERVE LIGHTING CIRCUITS SHOWN.
- STUB UP (1) 1-1/2" C. WITHIN POLE BASE AND EXTEND 3' FROM BASE AND CAP FOR FUTURE USE.
- RACEWAY CONTAINS MULTIPLE LIGHTING CIRCUITS. ROUTE TO PULL BOX AND EXTEND TO DESIGNATED LIGHT POLE.
- EXISTING LIGHT POLE BASE CONSTRUCTED AS PART OF FLOOD WALL PROJECT. CONTRACTOR SHALL UTILIZE POLE BASE AND EXISTING FIELD CONDUIT FOR INSTALLATION OF NEW LIGHT POLE, FIXTURE AND FIELD WIRING.
- NEMA 4X, STAINLESS STEEL PULL BOX SECURED TO TOP OF FLOOD WALL. FIELD CONDUIT SHALL BE ROUTED OVER THE WALL AND THROUGH THE DESIGNATED PULL BOX. NO CONDUIT SHALL PENETRATE THE WALL.
- UNDERGROUND FIELD CONDUIT INSTALLED AS PART OF FLOOD WALL PROJECT. CONTRACTOR SHALL INSTALL SCHEDULED CONDUCTORS WITHIN EXISTING RACEWAY.

SCALE	JDL
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SITE ELECTRICAL PLAN - AREA 3

DWG. NO.
E.3

PROJECT 28024

X-REFS: Riverfront Merged Topo - UPDATED 2.27.2020 & 2020-0604_11682-001-C-LAYO (02) & Riverfront Merged Topo & 11682-001-C-LAYO
FILE PATH: "DWG_LOCATION"

LIGHT FIXTURE POWER WIRING SCHEDULE						
CONDUIT NO	CONDUIT SIZE	LINEAR FEET	CONDUCTORS POWER	FROM	TO	NOTES
P-8	1"	336	2#8 & 1#8 G.	LIGHTING CONTROL PANEL (LCP-X)	AREA LIGHT POLE	1, 2, 4
P-9	1"	70	2#8 & 1#8 G.	AREA LIGHT POLE	AREA LIGHT POLE	1, 2, 4
P-10	1"	375	2#10 & 1#10 G.	LIGHTING CONTROL PANEL (LCP-X)	AREA LIGHT POLE	1, 2, 4
P-11	1"	1720	2#10 & 1#10 G.	AREA LIGHT POLE	AREA LIGHT POLE	1, 2, 4

1. ALL "P-" CONDUITS MAY NOT BE SHOWN ON DRAWINGS; ROUTE CONDUITS AND WIRING AS PER THIS SCHEDULE.
 2. MAKE POWER WIRE SPLICE AT EACH FIXTURE POLE, AS DETAILED IN THE PLANS
 3. TERMINATE SPARE CONDUIT AT UNDERGROUND PULL BOX FOR FUTURE USE.
 4. POWER WIRING CIRCUITS MAY BE COMBINED AS LONG AS CONDUIT FILL CAPACITIES ARE NOT EXCEEDED.

TYPE	DESCRIPTION	LAMP TYPE	MANUFACTURER	SERIES	VOLTAGE	MOUNTING HEIGHT	NOTES
L4	SINGLE COLUMN BRACKET FIXTURE; 18 LED CONFIGURATION; OPAL DIFFUSED LENS; TYPE II DISTRIBUTION; DUSH FINISH; 0-10V DIMMING.	LED; 22W; 2500 LM; 3000K CCT	LANDSCAPE FORMS OR APPROVED EQUAL	ARNE	240V	16 FT.	POLE INCLUDED WITH PRODUCT SPECIFICATION. ONE HEAD PER POLE. REFERENCE PREVIOUS PHASE PRODUCT ORDER FOR SPEC CONSISTENCY.
L5	SQUARE PROFILE POLE-TOP FIXTURE; DIE CAST ALUMINUM HOUSING; GRAY WITH SINGLE MOUNT POLE ACCESSORY.	LED; 45W; 3700 LM; 3000K CCT	SISTEMALLX OR APPROVED EQUAL	MOVIT SQUARE	240V	13 FT.	FIXTURES MOUNTED TO (P4), TO BE ORIENTED WITH OPTIC FACING THE PATH.
L6	LOW PROFILE LED POLE-TOP MODULE; DIE-CAST ALUMINUM HOUSING; STANDARD ARM MOUNT; ROUND POLE ADAPTER; TYPE III DISTRIBUTION; BLACK FINISH; 0-10V DIMMING.	LED; 56W; 6000 LM; 3000K CCT	GARDCO OR APPROVED EQUAL	ECOFORM	240V	20 FT.	FIXTURES MOUNTED TO (P5), TO BE ORIENTED WITH OPTIC FACING THE PATH.
L7	LOW PROFILE LED POLE-TOP MODULE; DIE-CAST ALUMINUM HOUSING; STANDARD ARM MOUNT; ROUND POLE ADAPTER; TYPE V DISTRIBUTION; BLACK FINISH; 0-10V DIMMING.	LED; 56W; 6000 LM; 3000K CCT	GARDCO OR APPROVED EQUAL	ECOFORM	240V	20 FT.	FIXTURES MOUNTED TO (P5).
L8	4" DIAMETER INGRADE, CAST STAINLESS STEEL HOUSING, TEMPERED CLEAR SAFETY GLASS, ANODIZED ALUMINUM REFLECTOR, TRIMMED MACHINE BRUSHED STAINLESS STEEL COVER WITH HIGH TEMPERATURE SILICONE RUBBER GASKETING, IP68 AND DRIVE-OVER RATED ENCLOSURE, ASYMMETRIC 35 DEGREE BEAM THROW, 0-10V DIMMING.	LED; 3W; 364 LM; 3000K CCT	BEGA OR APPROVED EQUAL	77019	240V	N/A	FIXTURES TO BE LOCATED AT OUTER EDGES OF WOOD TRELLIS STRUCTURES, AIMED WITH OPTIC FACING INWARD TOWARD CENTER OF STRUCTURE.
L9	(3) LED FLOOD FIXTURE HEADS WITH (3) SINGLE MOUNT POLE ACCESSORY TO P6, 6" DIAMETER ROUND POLE TOP FLOOD FIXTURE, DIE-CAST MARINE GRADE ALUMINUM HOUSING, CLEAR SAFETY GLASS, PURE ANODIZED ALUMINUM REFLECTOR, SILICONE GASKETING, IP65 RATING, MATTEE SILVER FINISH, 58 DEGREE OPTIC, GLARE SHIELD, 0-10V DIMMING.	LED, 48W; 4200 LM; 3000K CCT	BEGA OR APPROVED EQUAL	77653, 70379	240V	20, 22, 24 FT.	PROVIDE SHOP DRAWINGS OF MOUNTING ATTACHMENT INTENT, FOR FINAL APPROVAL OF SYSTEM BY LIGHTING DESIGNER.
L10	LED FLOOD FIXTURE HEAD WITH SINGLE MOUNT POLE ACCESSORY MOUNTED TO EXISTING POLE STRUCTURE ON SITE, 6" DIAMETER ROUND POLE TOP FLOOD FIXTURE, DIE-CAST MARINE GRADE ALUMINUM HOUSING, CLEAR SAFETY GLASS, PURE ANODIZED ALUMINUM REFLECTOR, SILICONE GASKETING, IP65 RATING, MATTEE SILVER FINISH, 58 DEGREE OPTIC, GLARE SHIELD, 0-10V DIMMING.	LED, 48W; 4200 LM; 3000K CCT	BEGA OR APPROVED EQUAL	77653, 70379	240V	20, 22, 24 FT.	PROVIDE SHOP DRAWINGS OF MOUNTING ATTACHMENT INTENT TO EXISTING POLE DIMENSIONS, FOR FINAL APPROVAL OF SYSTEM AND POWER SUPPLY BY LIGHTING DESIGNER AND ELECTRICAL ENGINEER.
P4	13 FT. ROUND ALUMINUM POLE.		SISTEMALLX OR APPROVED EQUAL				REFERENCE PREVIOUS PHASE PRODUCT ORDER FOR SPEC CONSISTENCY.
P5	20 FT. ROUND ALUMINUM POLE.		GARDCO OR APPROVED EQUAL				PROVIDE SHOP DRAWINGS OF MOUNTING ATTACHMENT INTENT, FOR FINAL APPROVAL OF SYSTEM BY LIGHTING DESIGNER.
P6	24" ROUND TAPERED ALUMINUM POLE, PAINTED MATTEE SILVER TO MATCH FIXTURE TYPE L9 AND POLES ALREADY ON SITE.		BEGA OR APPROVED EQUAL				PROVIDE SHOP DRAWINGS OF MOUNTING ATTACHMENT INTENT, FOR FINAL APPROVAL OF SYSTEM BY LIGHTING DESIGNER.

AUDITORIUM MECHANICAL ROOM									
120/240 VOLTS, 1 PHASE, 3 WIRE									
100 AMP RATED									
LOAD					EXISTING MOUNTING: SURFACE				
LOAD	CKT	BREAKER	L1	L2	BREAKER	CKT	LOAD		
SPARE	1	1P-20A			1P-20A	2	WASHER REC.		
UNDER BENCH REC.	3	1P-20A			1P-20A	4	TRELLIS STRUCTURE LIGHTS (L8)		
FOUNTAIN REC.	5	1P-20A			1P-20A	6	EAST AREA LIGHTS (L10)		
FOUNTAIN REC.	7	1P-20A			1P-20A	8	NORTH BLDG ENTRANCE LIGHTS		
SPACE	9				2P-30A	10	DRYER REC.		
SPACE	11					12			
SPACE	13					14	SPACE		
SPACE	15					16	SPACE		
SPACE	17					18	SPACE		

RLA	0.0	0.0	0.0
RLA	0.0	0.0	0.0
HIGH LEG MCA	0.0	0.0	0.0
HIGH LEG RLA	0.0	0.0	0.0

RLA 0.0 MCA 0.0

PORT BUILDING - NORTH SIDE									
120/240 VOLTS, 1 PHASE, 3 WIRE									
100 AMP RATED									
LOAD					FEED - 100A MOUNTING: SURFACE				
LOAD	CKT	BREAKER	L1	L2	BREAKER	CKT	LOAD		
UNKNOWN	1	1P-20A			1P-20A	2	WEST DECORATIVE LIGHTS		
UNKNOWN	3	1P-20A			1P-20A	4	DECORATIVE LIGHTS		
UNKNOWN	5	1P-20A			1P-20A	6	UNKNOWN		
UNKNOWN	7	1P-20A			1P-20A	8	UNKNOWN		
UNKNOWN	9	1P-30A			1P-20A	10	UNKNOWN		
EAST PARKING AREA	11	1P-30A			1P-20A	12	WEST PARKING AREA		
UNKNOWN	13	1P-30A			1P-20A	14	UNKNOWN		
SPACE	15				2P-60A	16	MAIN		
SPACE	17					18			
SPACE	19					20	SPACE		

RLA	0.0	0.0	0.0
RLA	0.0	0.0	0.0
HIGH LEG MCA	0.0	0.0	0.0
HIGH LEG RLA	0.0	0.0	0.0

RLA 0.0 MCA 0.0

*BALANCE LOADS ON NEW PANEL
 *CONTRACTOR SHALL FIELD
 VERIFY LOADS

SCALE	VERIFY SCALE
DRAWN	JDL
CHECKED	JDL
APPROVED	LFF
DATE	04/02/2021
ISSUED FOR	BID DOCUMENTS

SMITHGROUP

BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 INCHES DIMENSION 1" IF NOT ONE INCH ON THIS SHEET. ADJUST SCALES ACCORDINGLY.

DATE REVISIONS

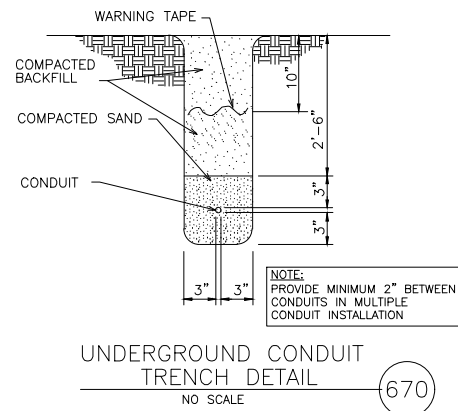
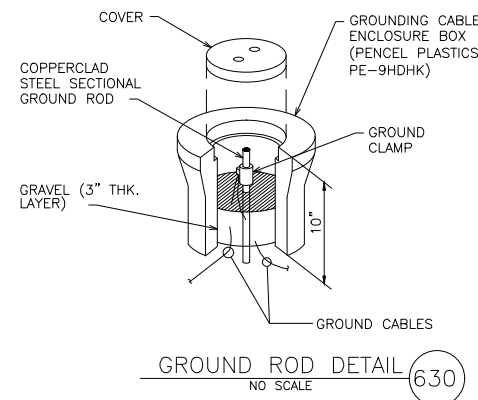


PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
 309-786-7590 • 309-797-0996(FAX) • 877-241-9010(WATS)

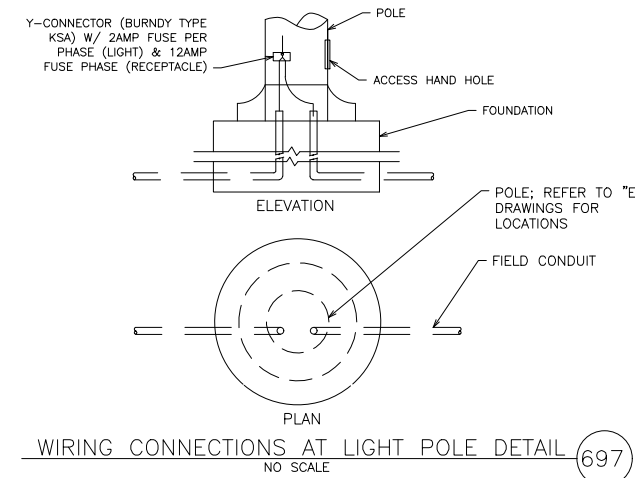
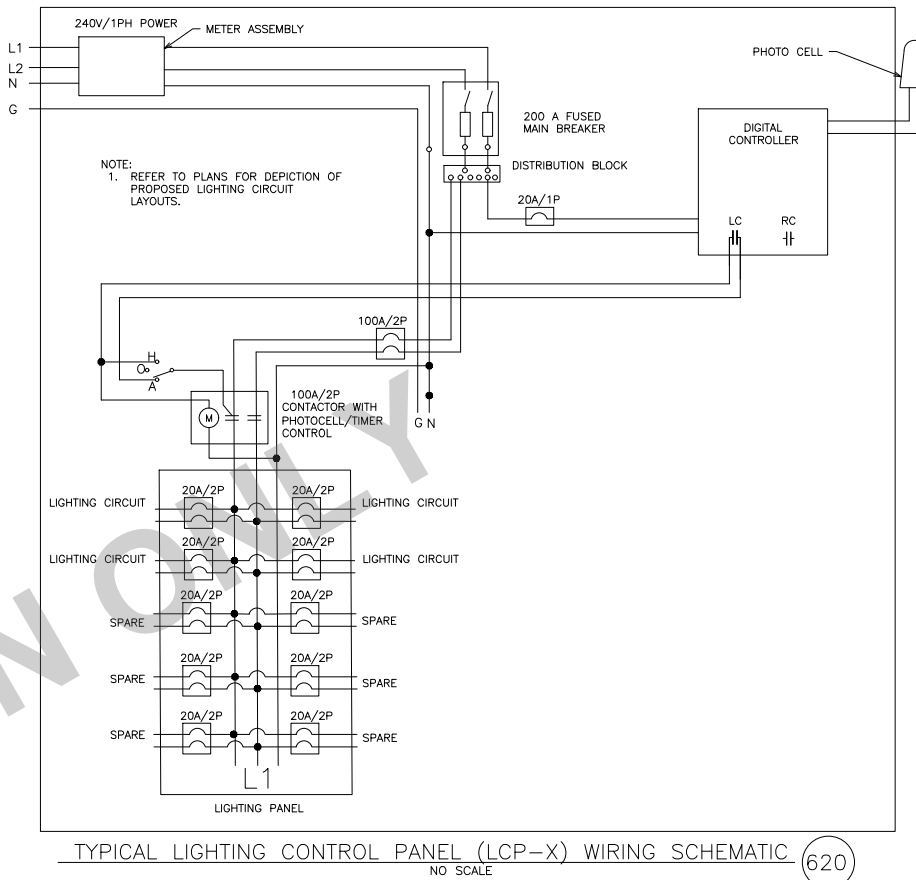
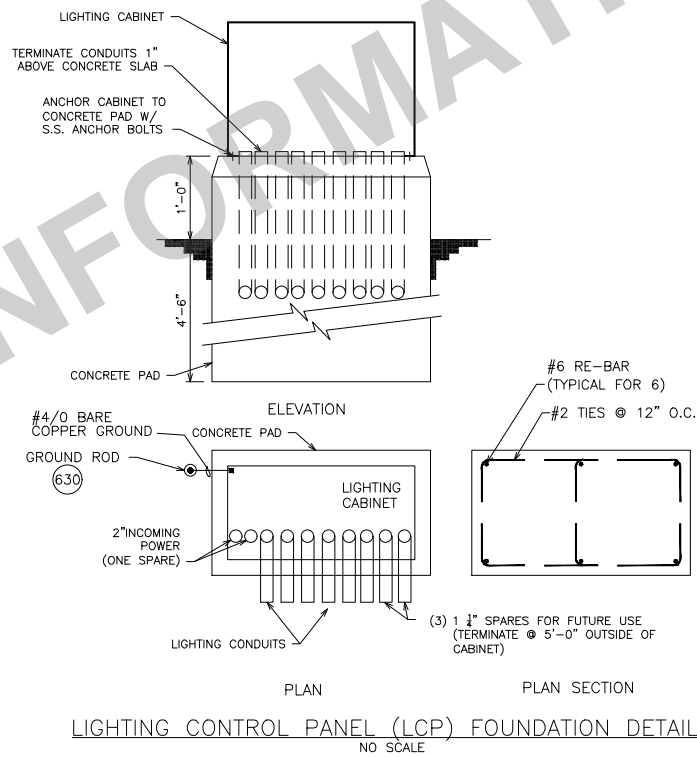
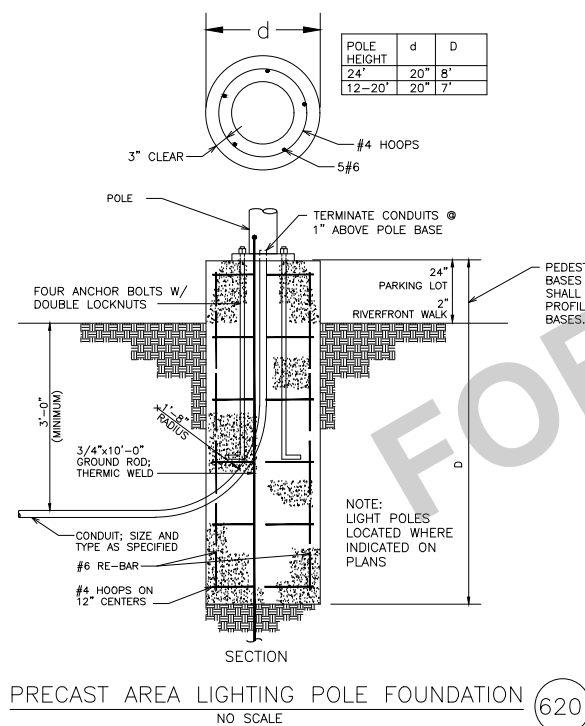
ELECTRICAL SCHEDULES

DWG. NO.
E.4
 PROJECT 28024



GENERAL NOTES:

1. PHOTOCELL ON AND PHOTOCELL OFF WITH TIMER FUNCTION FOR LIGHTING CIRCUITS.
2. AUDITORIUM LIGHTING CONTROLLER SHALL HAVE PROVISIONS FOR DIMMER CONTROL OF PROPOSED LIGHTING CIRCUITS.
3. INSTALL PHOTOCELL ON NORTH SIDE OF LIGHTING CONTROL PANEL.
4. REFER TO SCHEDULES FOR CONDUIT SIZES.
5. LIGHT FIXTURE AND POLE SHALL BE GROUNDED PER MANUFACTURER GUIDELINES.



X-REFS: Riverfront Merged Topo - UPDATED 2.27.2020 & 2020-0604_11682-001-C-LAYO (02) & Riverfront Merged Topo & 11682-001-C-LAYO
FILE PATH: "DWG_LOCATION"

SCALE	JDL	VERIFY SCALE
DRAWN	JDL	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED	JDL	0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED	LF	
DATE	04/02/2021	
ISSUED FOR	BID DOCUMENTS	

SMITHGROUP	
DATE	REVISIONS



PROJECT #: EDP-0977(653)-7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

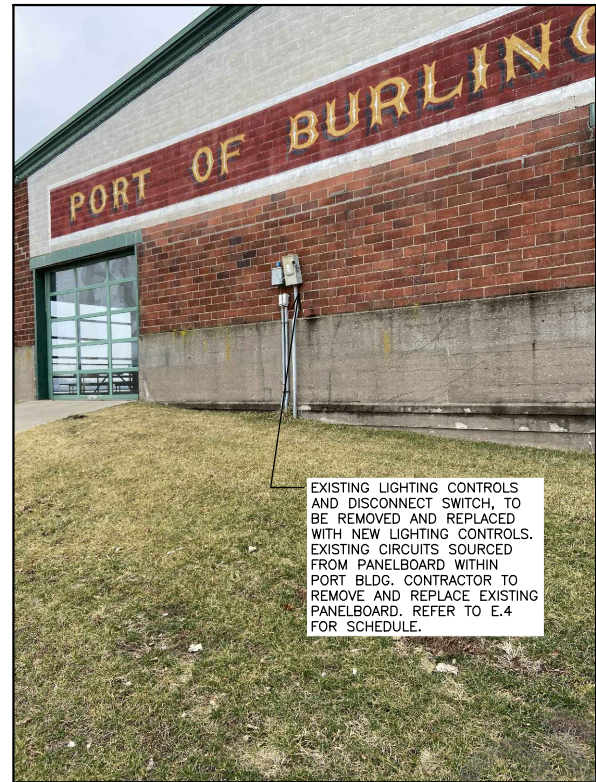
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ELECTRICAL DETAILS

DWG. NO.	E.5
PROJECT	28024



AUDITORIUM — LOOKING SOUTH (6-1)
NO SCALE



PORT BUILDING — LOOKING SOUTH (6-2)
NO SCALE



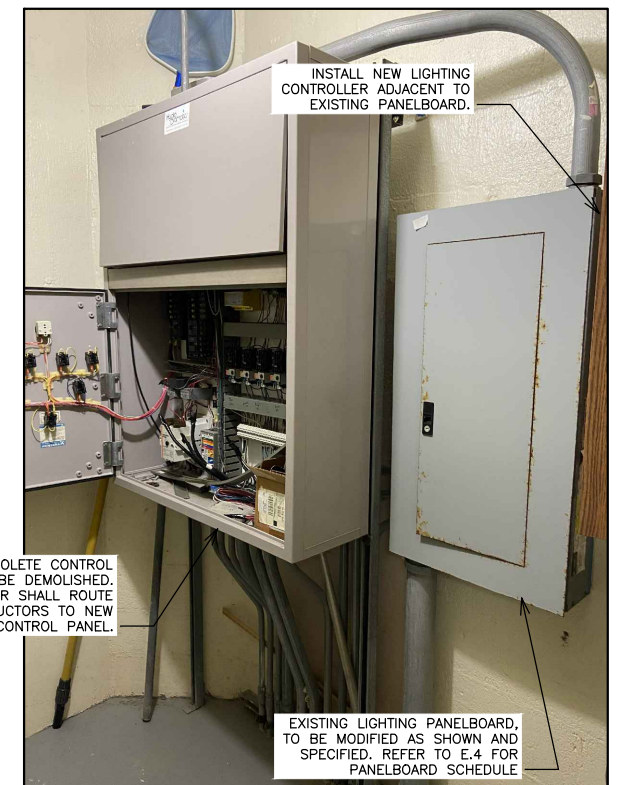
PORT BUILDING INTERIOR — LOOKING NORTH (6-3)
NO SCALE



PORT BUILDING — LOOKING WEST (6-4)
NO SCALE



AUDITORIUM BASEMENT ELECTRICAL ROOM (6-5)
NO SCALE



AUDITORIUM BASEMENT ELECTRICAL ROOM (6-6)
NO SCALE

X-REFS: Riverfront Merged Topo - UPDATED 2.27.2020 & 2020-0604_11682-001-C-LAYO (02) & Riverfront Merged Topo & 11682-001-C-LAYO
FILE PATH: "DWG_LOCATION"

SCALE	JDL	VERIFY SCALE
DRAWN	JDL	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED	JDL	0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED	LFF	
DATE	04/02/2021	
ISSUED FOR	BID DOCUMENTS	

SMITHGROUP	
DATE	REVISIONS

V&K

VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

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ELECTRICAL PHOTOS

DWG. NO.	E.6
PROJECT	28024

SPECIFICATIONS AND NOTES

GENERAL NOTES:

- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ANY DISCREPANCIES IN DIMENSIONS SHALL BE NOTED AND MADE AWARE TO FOUNTAIN TECHNOLOGIES, LTD. FOR RESOLUTION.
- THE DRAWINGS AND SPECIFICATIONS ARE PROPRIETARY TO FOUNTAIN TECHNOLOGIES LTD. AND ARE LEGAL DOCUMENTS FOR THE SOLE USE OF THE OWNER AND ITS AUTHORIZED REPRESENTATIVE (OR APPROVED EQUAL) FOR THIS PROJECT. OTHER USES WITHOUT THE WRITTEN CONSENT OF FOUNTAIN TECHNOLOGIES, LTD. ARE STRICTLY PROHIBITED.
- NO DEVIATION FROM THE DRAWINGS PROVIDED OR THE DESIGN INTENT ARE ACCEPTABLE WITHOUT WRITTEN AUTHORIZATION BY FOUNTAIN TECHNOLOGIES, LTD.
- FOUNTAIN CONTRACTOR SHALL NOTIFY FOUNTAIN TECHNOLOGIES, LTD. IF ANY CLARIFICATIONS IN THE DESIGN, DESIGN INTENT OR DESIGN INFORMATION IS MISSING, NOT SHOWN, OR IS UNCLEAR PRIOR TO COMMENCING WORK.
- THE WORDS "POOL" AND/OR "FOUNTAIN" WITHIN THE FOUNTAIN DOCUMENTS REFERS TO THE WATER FEATURE INCLUDED IN THIS PROJECT.
- EQUIPMENT/INSTALLATION DETAILS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS OF THE SAME.
- ANY DIMENSION SHOWN ON THE SET OF DOCUMENTS THAT INDICATE A +/- NEXT TO A DIMENSION IS INDICATING THAT THE DIMENSION IS NOT AN ACTUAL DIMENSION AND NEEDS TO BE VERIFIED IN THE FIELD DUE TO EXISTING CONDITIONS. THE DISCREPANCIES BETWEEN THE GIVEN DIMENSION AND THE ACTUAL FIELD DIMENSION SHALL BE MADE AWARE TO FOUNTAIN TECHNOLOGIES, LTD. BEFORE PROCEEDING WITH CONSTRUCTION.
- THE FOUNTAIN CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS PRIOR TO CONSTRUCTION AND GIVE A WRITTEN ACCOUNT OF ANY DISCREPANCIES, ERRORS AND/OR OMISSIONS FOUND ON THIS SET OF DOCUMENTS TO THE OWNER/OWNER'S REPRESENTATIVE. IF THE FOUNTAIN CONTRACTOR PERFORMS ANY WORK KNOWINGLY TO THE CONTRARY INVOLVING CODES, ORDINANCES, RULES AND REGULATIONS WITHOUT MAKING THE OWNER AWARE OF PRIOR TO COMMENCING WORK SHALL THEN ASSUME ALL RESPONSIBILITY AND SUPPORT ALL EXPENSES ATTRIBUTABLE THERETO.
- THE FOUNTAIN CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADE ELEVATIONS AND ALL EXISTING CONDITIONS PRIOR TO STARTING ANY WORK AND REPORT ANY DISCREPANCIES AND/OR ERRORS IN WRITING TO FOUNTAIN TECHNOLOGIES, LTD. ANY WORK ATTRIBUTABLE TO THE INSTALLATION IN CONFLICT WITH THE FOUNTAIN TECHNOLOGIES, LTD. SET OF DOCUMENTS SHALL BE CORRECTED AT THE FOUNTAIN CONTRACTOR'S EXPENSE.
- USE SKILLED TRADESMEN SUPERVISED BY QUALIFIED PERSONNEL WITH AT LEAST 10 YEARS EXPERIENCE IN THE INSTALLATION, START-UP, AND OPERATION OF WATER FEATURES OF SIMILAR SIZE AND COMPLEXITY. ASSUME RESPONSIBILITY FOR THE PERFORMANCE OF THE ENTIRE WATER FEATURE. CONTRACTOR TO PROVIDE PERSONNEL FOR ADJUSTMENTS REQUIRED TO ALL MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED BY EQUIPMENT SUPPLIER, AOR, AND CONSULTANT.
- ALL GRADES SHOWN REFER TO FINISHED SURFACES UNLESS NOTED OTHERWISE.
- THE FOUNTAIN CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE PLACEMENT AND CONFIGURATION OF THIS WATER FEATURE PER THESE DOCUMENTS.
- THE FOUNTAIN CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AND VERIFY WITH THE OWNER PRIOR TO COMMENCING ANY WORK.
- THE FOUNTAIN CONTRACTOR SHALL FURNISH AND INSTALL/CONNECT ALL SPECIFIED ITEMS WHERE REQUIRED, EXCEPT AS NOTED OTHERWISE.
- DETAILS ARE INTENDED TO SHOW MEANS AND METHODS TO COMPLETE WATER FEATURE WORK. MINOR MODIFICATIONS MAY BE REQUIRED/TAILORED TO EXISTING JOB/SITE CONDITIONS AND SHALL BE PART OF FOUNTAIN CONTRACTOR'S SCOPE OF WORK.
- ALL MATERIAL FOR THE USE AND INSTALLATION OF THE WATER FEATURE THAT WILL BE STORED ON SITE IS TO BE PROPERLY STACKED AND PROTECTED FROM DAMAGE AND/OR ELEMENTS UNTIL USE. FAILURE TO DO SO MAY SUBJECT WORK/INSTALLATION COMPLETED TO BE REJECTED.
- THE FOUNTAIN CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SCHEDULING OF THE WATER FEATURE WORK AND INSTALLATION, AND COORDINATE WITH ALL OTHER INVOLVED TRADES.
- ALL PIPING, CONSTRUCTION MATERIAL OR ASSEMBLIES OF SUCH SHALL BE SPECIFIED ON FOUNTAIN TECHNOLOGIES, LTD. EQUIPMENT SCHEDULE. DRAWINGS AND SPECIFICATIONS. ANY REQUEST FOR SUBSTITUTION FROM THE ABOVE MAY BE ALLOWED AND SHALL BE MADE AWARE TO THE OWNER/OWNER REPRESENTATIVE AND ANY SUBSTITUTIONS SHALL BE SUBMITTED THROUGH EQUIPMENT/MATERIAL CUTSHEET WITHIN 10 WORKING DAYS PRIOR TO BIDDING OF SUCH ITEMS TO OBTAIN WRITTEN APPROVAL FROM FOUNTAIN TECHNOLOGIES, LTD. FOUNTAIN CONTRACTOR SHALL NOT SUBSTITUTE ANY ITEM OF LOWER PERFORMANCE OR INFERIOR QUALITY. (SEE SUBMITTAL PROCEDURES).
- FOUNTAIN CONTRACTOR SHALL BE RESPONSIBLE FOR PURCHASING OF EQUIPMENT/MATERIALS/SPECIFICATION SOURCES TO COMPLETE WORK FOR THIS PROJECT.
- ALL METALLIC HARDWARE IN MECHANICAL SPACES TO BE MADE OF 304 STAINLESS STEEL.
- SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE SPECIFIED MANUFACTURERS OR APPROVED EQUAL.
- FOUNTAIN TECHNOLOGIES, LTD. MAY AT THE OWNERS REQUEST/CONTRACT PROVIDE PERIODIC FIELD OBSERVATIONS/REPORTS. FOUNTAIN TECHNOLOGIES LTD. EMPLOYEES/SUPERVISORS ARE NOT RESPONSIBLE FOR THE INSTALLATION OR ADJUSTMENT OF ANY EQUIPMENT/MATERIALS, WHICH IS THE SOLE RESPONSIBILITY OF THE FOUNTAIN CONTRACTOR.

PLUMBING NOTES:

- ALL PLUMBING PIPING SHOWN IS FOR DIAGRAMMATIC PURPOSE ONLY, NOT FOR SCALING.
- FOUNTAIN CONTRACTOR SHALL FOLLOW THE STRICT INSTALLATION GUIDELINES PER ALL GOVERNING PLUMBING CODES, ORDINANCES AND STANDARDS.
- ALL PIPING AND THE INSTALLATION OF THE SAME SHALL CONFORM TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP FOR ALL APPLICABLE TRADES.
- ALL PIPE MATERIAL FOR "WATER FEATURE" AS PER PLAN SHALL BE SCHEDULE 80 PVC (ASTM D1785). PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL.
- ALL PIPES TO MAINTAIN A MINIMUM OF 1% SLOPE WITH WATER FEATURE BEING AT THE HIGHEST POINT, SO THAT PIPING SLOPES DOWNWARD FROM THE WATER FEATURE TO MECHANICAL AREA (MECHANICAL VAULT/ROOM) AND PUMPS.
- THESE DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL PIPE LOCATIONS TO BE FIELD VERIFIED AND COORDINATED WITH ALL APPLICABLE TRADES. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS AS REQUIRED.
- FOUNTAIN CONTRACTOR TO REFER TO WATER FEATURE PLUMBING DIAGRAM FOR PIPE SIZES, PUMP SCHEDULE, VALVE SCHEDULE AND LINE CONFIGURATIONS.
- FOUNTAIN CONTRACTOR SHALL PROVIDE APPROPRIATE SIZED VIBRATION/ISOLATION PADS WHEREVER A PUMP IS LOCATED IF SUGGESTED BY PUMP MANUFACTURER.
- FOUNTAIN CONTRACTOR TO INSTALL ALL PIPING IN MANNER SHOWN ON THE DRAWINGS. DO NOT DEVIATE FROM THE DESIGN INTENT.
- FOUNTAIN CONTRACTOR SHALL CLEAN PIPING MATERIAL BEFORE INSTALLATION AND PROTECT ALL WATER FEATURE PIPING/EQUIPMENT DURING INSTALLATION TO PREVENT CONTAMINATION OF THE SAME.
- FOUNTAIN CONTRACTOR SHALL SUPPORT/BRACE ALL PIPING AS REQUIRED AND/OR APPROVED BY LOCAL BUILDING CODES, PROJECT SPECIFICATIONS, STRUCTURAL DRAWINGS, ETC.
- FOUNTAIN CONTRACTOR SHALL PROVIDE ALL STRUCTURAL LOADS IMPOSED ON THE BUILDING STRUCTURE WHEN REQUIRED.
- FOUNTAIN CONTRACTOR TO PROVIDE ALL STAINLESS STEEL FASTENERS, VISIBLE STAINLESS STEEL SHALL BE TYPE 304 WITH A SANDBLASTED FINISH UNLESS NOTED OTHERWISE.
- FOUNTAIN CONTRACTOR SHALL PROVIDE 12" MINIMUM COVER COMPACTED TO 95% ABOVE ALL FOUNTAIN PIPING, BACKFILL MATERIAL SHALL BE A MINIMUM OF CA-7 PROVIDED IN 6" LIFTS AND TO BE HAND TAMPERED TO ACHIEVE ESTABLISHED SUBSTANTIAL COMPACTION AS REQUIRED BY APPROVED SITE COMPACTION.

ELECTRICAL NOTES:

- ALL CONDUIT PIPING SHOWN IS FOR DIAGRAMMATIC PURPOSE ONLY, NOT FOR SCALING.
- FOUNTAIN CONTRACTOR SHALL FOLLOW THE STRICT INSTALLATION GUIDELINES PER ALL GOVERNING ELECTRICAL CODES, ORDINANCES AND STANDARDS.
- ALL CONDUIT AND THE INSTALLATION OF THE SAME SHALL CONFORM TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP FOR ALL APPLICABLE TRADES.
- THESE DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL CONDUIT LOCATIONS TO BE FIELD VERIFIED WITH ALL TRADES BY ELECTRICAL CONTRACTOR. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS AS REQUIRED.
- REFER TO "WATER FEATURE" ELECTRICAL DIAGRAM/ELECTRICAL SCHEMATIC FOR A DETAILED BREAKDOWN OF ELECTRICAL DESIGN.
- ELECTRICAL POWER SUPPLIES TO BE LOCATED WITHIN DESIGNATED "WATER FEATURE" MECHANICAL AREA. MAINTAIN CONDUIT RUN LAYOUTS SHOWN TO ENSURE PROPER VOLTAGE DROPS.
- ALL CONDUCTIVE EQUIPMENT WITHIN THE "WATER FEATURE" / MECHANICAL AREA TO BE BONDED VIA #8 BOND WIRE PER N.E.C. CODE.
- ALL FOUNTAIN REBAR TO BE BONDED AS PER N.E.C. CODE. IT IS RECOMMENDED THAT REBAR BE NON-EPOXY COATED FOR EASE OF GROUNDING.
- ALL SUBMERSIBLE JUNCTION BOXES SHALL BE FILLED WITH A RE-ENTERABLE POTTING COMPOUND AFTER ALL CIRCUITS HAVE BEEN TERMINATED, TESTED, AND INSPECTED.
- REFER TO ELECTRICAL DIAGRAM/SCHEMATIC FOR PROJECT SPECIFIC ELECTRICAL REQUIREMENTS AND SPECIFICATIONS.
- INSTALL A GROUNDING ROD FOR ALL ABOVE GROUND EQUIPMENT VAULTS.
- CONDUITS AND WIRE RACEWAYS SHALL CONTAIN CONDUCTORS OF EQUAL POTENTIAL. VOLTAGES ARE NOT TO BE MIXED.
- ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER NATIONAL ELECTRICAL CODE (N.E.C.) ARTICLE 680 AND U.S. NATIONAL FIRE PROTECTION ASSOCIATION (N.F.P.A.).
- ALL CONDUIT PENETRATING A CONCRETE SLAB OR SUBMERSED IN WATER SHALL BE RED BRASS.
- ALL CONDUIT RUNS BETWEEN "WATER FEATURE" AND MECHANICAL AREA SHALL BE P.V.C. WHERE BURIED AND E.M.T. WHERE EXPOSED.
- ALL CONDUIT WITHIN MECHANICAL AREA SHALL BE E.M.T..
- NO OUTLETS WITHIN 6 FT. OF "WATER FEATURE". ALL OUTLETS 6 FT. TO 20 FT. FROM THE "WATER FEATURE" TO BE G.F.C.I. PROTECTED. G.F.C.I. PROTECTION TO BE PROVIDED IN ACCORDANCE TO THE NATIONAL ELECTRICAL CODE (N.E.C.) AND IN COMPLIANCE WITH ALL LOCAL CODES FOR ALL LIGHTING CIRCUITS, PUMP MOTORS, OUTLETS AND CIRCUITS IN THE "WATER FEATURE".
- ELECTRICAL WIRE SHALL BE SIZED PROPERLY USING ONLY WATER RESISTANT, STRANDED COPPER WIRE.
- ALL ELECTRICAL EQUIPMENT INSTALLATION SHALL COMPLY WITH ALL REQUIRED CLEARANCES.
- ALL CAT5 WIRES TO BE STRANDED CAT5 WIRES

EQUIPMENT SUBMITTALS:

- ALL EQUIPMENT CUTSHEETS SHALL BE REQUIRED PER THE SUBMITTAL PROCESS OF THIS PROJECT. FOLLOW SUBMITTAL GUIDELINES AS PER SPECIFICATIONS AND CONSTRUCTION SCHEDULE.
- SUBMIT ALL CUTSHEETS ACCORDING TO THE EQUIPMENT LIST BY FOUNTAIN TECHNOLOGIES, LTD. AS PART OF THE FINAL FOR CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
- ANY EQUIPMENT SUBSTITUTIONS SHALL BE SUBMITTED 10 DAYS PRIOR TO THE SUBMITTAL DUE DATE TO FOUNTAIN TECHNOLOGIES, LTD. FOR REVIEW AND APPROVAL. FOLLOW SUBMITTAL GUIDELINES AS PER SPECIFICATIONS AND CONSTRUCTION SCHEDULE.

GENERAL EXCAVATION NOTES:

- THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION, INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF SOIL SURROUNDING THE GENERAL EXCAVATION, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXCAVATION SHALL BE BASED UPON ENGINEERED DRAWINGS PREPARED BY THE CONTRACTOR INCLUDING PLANS AND SECTIONS OF EXCAVATION SEQUENCES.
- THE GENERAL EXCAVATION ACROSS THE SITE SHALL NOT EXTEND DEEPER THAN THE SLAB-ON-GRADE SUBGRADE ELEVATION. THE EXCAVATIONS FOR SPREAD FOOTINGS, PITS, AND TRENCHES SHALL BE EXCAVATED ON AN INDIVIDUAL LOCALIZED BASIS DOWN FROM THE SLAB-ON-GRADE SUBGRADE. THE LAST 6 INCHES OF EACH EXCAVATION SHALL BE HAND EXCAVATED TO A TRIM, LEVEL SURFACE.
- ALL EXCAVATION BELOW THE SLAB LEVEL REQUIRED FOR PITS AND TRENCHES SHALL BE RETAINED BY LOCALIZED SOIL RETENTION SYSTEMS, AS MAY BE NECESSARY, BASED ON THE CONTRACTOR'S DESIGN USING APPROPRIATE EARTH AND HYDRAULIC PRESSURES AND THE CONSTRUCTION LOADINGS.
- THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MAT/ SHEET COVERINGS), FOR ALL EXCAVATION SLOPES, TO PROTECT SLOPES FROM INSTABILITY AND DETERIORATION DUE TO RAIN, WIND, OR SNOW / ICE.
- THE CONTRACTOR SHALL PROVIDE SURFACE DRAINAGE CHANNELS AND SUMPS AND SUMP PUMPS TO PROTECT ALL EXCAVATIONS FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF ANY SUBGRADE WILL BE CAUSE OF COMPLETE REMOVAL OF CONCRETE MUD SLABS, AND THE COMPLETE REPREPARATION AND APPROVAL OF THE SUBGRADE.
- THE SITE SHALL BE DEWATERED, AS REQUIRED, BEFORE (OR AS) THE EXCAVATION PROCEEDS. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION AND EQUIPMENT FOR THE DEWATERING SYSTEM. AT ALL TIMES, THE DEWATERING SYSTEM SHALL MAINTAIN THE WATER LEVEL A MINIMUM OF 3 FEET BELOW THE DEEPEST FOUNDATION SUBGRADE. THE DEWATERING SYSTEM SHALL BE MAINTAINED UNTIL THE GROUND FLOOR SLAB IS IN PLACE AND THE PERMANENT BUILDING DRAINAGE SYSTEM IS FULLY OPERATIONAL.
- THE OWNER'S SOIL TESTING LABORATORY SHALL REVIEW AND CONTINUOUSLY MONITOR THE EXCAVATION, DEWATERING, AND SOIL RETENTION SYSTEMS. THE CONTRACTOR SHALL INSTALL AND CONTINUOUSLY SURVEY:
 - VERTICAL AND HORIZONTAL MOVEMENTS OF THE ADJACENT EXISTING FOUNDATION
 - OBSERVATION WELLS FOR MONITORING WATER LEVELS BELOW GROUND SURFACE.

GENERAL FOUNDATION NOTES:

- SUBGRADE UNDERCUT AND SOIL PREPARATION SHALL BE PERFORMED AS REQUIRED TO ACHIEVE MIN. NET SOIL BEARING CAPACITY. ALL FOOTINGS SHALL BE CONSTRUCTED UPON ENGINEERED FILL WITH A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2000 PSF.
- THE SOIL SUBGRADE FOR ALL FOOTINGS AND SLABS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S TESTING AGENCY IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE OR CONCRETE MUD SLABS.
- THE UPPER 12" OF ALL SLAB SUBGRADES, INCLUDING PIT SLABS, SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557). ALL BACKFILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS, FOOTINGS, WALLS AND PITS SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" IN THICKNESS AND SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557) TO WITHIN 12" OF THE SLAB SUBGRADE.
- ALL ORGANIC AND / OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM FOUNDATION AND SLAB SUBGRADE AND BACKFILL AREAS, AND THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557).
- NO MUD SLABS, FOOTINGS OR STRUCTURAL SLABS SHALL BE PLACED INTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST ENTER A FOOTING/MUD SLAB/STRUCTURAL SLAB EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE REINSPECTED BY THE OWNER'S SOIL TESTING LABORATORY AFTER REMOVAL OF WATER, FROST, OR ICE.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATION ANY FOOTING OR STRUCTURAL MUD SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE, AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
- ALL SLAB AND FOOTING MUD SLABS SHALL BE THOROUGHLY CLEANED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.
- THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS POUR.
- ALL SLABS-ON-GRADE SHALL BE PLACED OVER A CONTINUOUS VAPOR BARRIER OVER A MINIMUM OF 6" COMPACTED GRANULAR MATERIAL, OVER A COMPACTED SOIL SUBGRADE. MINIMUM REINFORCEMENT SHALL BE 6x6 - W2.9xW2.9.
- ALL PERIMETER WALL AND COLUMN FOOTINGS SHALL BEAR A MIN. OF 3'-6" BELOW THE FINISHED GRADES SHOWN ON THE CIVIL DRAWINGS.
- SEE PLUMBING DRAWINGS FOR PERIMETER WALL AND INTERIOR FLOOR DRAINAGE SYSTEMS, AND SPECIAL GRANULAR FILL MATERIALS FOR SUCH DRAINAGE SYSTEMS.

REINFORCED CONCRETE NOTES:

- ALL CAST-IN-PLACE CONCRETE SHALL BE OF THE TYPES AND HAVING MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

FOOTINGS, PEDESTALS, AND FOUNDATION WALLS:	4000 PSI
SLABS-ON-GRADES:	4000 PSI
MISCELLANEOUS FILLS AND PADS:	3500 PSI
- ALL CONCRETE SHALL CONTAIN AN APPROVED WATER REDUCING PLASTICIZING ADMIXTURE. APPROVED, HIGH-RANGE, WATER REDUCING ADMIXTURES MAY BE UTILIZED. ALL CONCRETE FOR PERIMETER FOUNDATION WALLS AND OTHER EXTERIOR EXPOSED CONCRETE SHALL ALSO CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE.
- ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60, Fy = 60,000 PSI.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185
- ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, SPACED IN FORMS, AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.
- THE CONTRACTOR SHALL SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING, PLACEMENT AND SUPPORT DETAILS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS, CURBS, SLAB DEPRESSIONS, SLEEVES, OPENINGS, AND EMBEDMENTS TO ARCHITECT FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
- ALL REINFORCING SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318. BUT IN NO CASE SHALL BE LESS THAN 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
- ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY
- WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE AND NUMBER OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.
- ALL WALLS AND STRUCTURAL SLABS SHALL BE REINFORCED WITH MINIMUM NO. 4 NON-EPOXY REBAR AT 12" O.C. EACH FACE, EACH FACE. UNLESS NOTED OTHERWISE, ALL SLABS-ON-GRADE SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6x6 - W2.9xW2.9 W.W.F., UNLESS NOTED OTHERWISE. PROVIDE ONE (1) LAYER OF 6x6 - W2.9xW2.9 W.W.F. CONTINUOUS IN ALL CONCRETE FILLS ABOVE THE STRUCTURAL SLAB. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6x6 W.W.F. (SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS FOR PADS.)
- ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS, AS SHOWN ON DETAILS.
- CONSTRUCTION JOINTS IN ALL WALLS SHALL NOT BE FURTHER APART THAN 60 FEET IN ANY DIRECTION.
- ALL CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED, CLEANED AND MOISTENED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
- CONTROL JOINTS FOR SLAB-ON-GRADE SHALL BE IN A SQUARE OR RECTANGULAR PATTERN AND SHALL BE SPACED NOT MORE THAN (3) THREE TIMES THE SLAB THICKNESS IN FEET OR 15 FT O.C., WHICHEVER IS SMALLER, UNLESS NOTED OTHERWISE.
- NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- ALL BAR SUPPORTS SHALL BE GALVANIZED. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL ALSO BE PLASTIC TIPPED.
- FOOTINGS AND WALLS SHALL NOT BE SLEEVED OR BOXED-OUT OR HAVE THE REINFORCING INTERRUPTED, EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CURBS.
- SEE ARCHITECTURAL, HVAC, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL WALL / SLAB OPENINGS.
- PROVIDE APPROVED CURING COMPOUND AND SEALER FOR THE TOP SURFACE OF ALL SLAB WORK, UNLESS NOTED OTHERWISE.
- OPENINGS:
 - OPENING SHOWN ARE FOR BIDDING PURPOSES ONLY, COORDINATE THEIR EXACT SIZE AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER APPLICABLE TRADES TRADES BEFORE PROCEEDING WITH WORK.
 - IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING.
 - PROVIDE 2 - #5 BARS AROUND ALL SLAB AND WALL OPENINGS, EXTENDING 2 FEET BEYOND OPENING IN EVERY DIRECTION, U.N.O.; OPENINGS NOT EXCEEDING 16 INCHES X 16 INCHES MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.
- FOOTINGS AND PEDESTALS:
 - PROVIDE DOWELS IN FOOTINGS TO MATCH VERTICAL PEDESTAL OR WALL REINFORCING U.N.O.
 - PROVIDE CORNER BARS AT WALL CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LAP LENGTH WITH HORIZONTAL REINFORCEMENT - 45 BAR DIAMETERS.
 - CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS, 16 INCHES O.C. PARALLEL SURFACES AT CENTERLINE OF MASONRY FOR PERPENDICULAR SURFACES.
 - PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
- SPLICES: UNLESS NOTED OTHERWISE, MINIMUM LAP SPlice LENGTHS SHALL BE AS FOLLOWS:

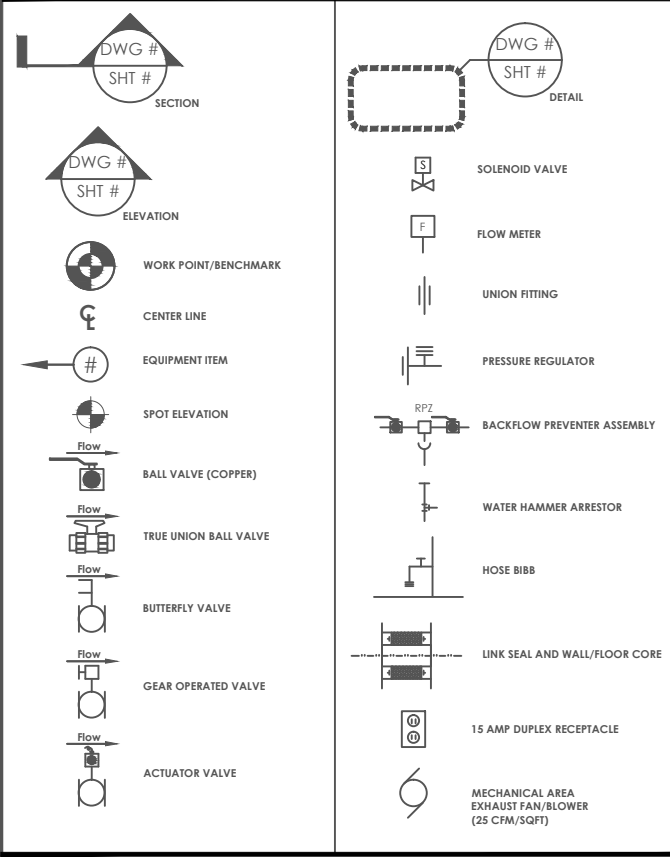
A. VERTICAL BARS IN PEDESTALS, (INCLUDING DOWELS):	45 BAR DIAMETERS
B. HORIZONTAL BARS IN SLABS & FOOTINGS:	45 BAR DIAMETERS
- CONSTRUCTION JOINTS:
 - CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE SHOWN ON THE CONTRACT DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE KEVED. KEYWAYS SHALL BE 1-1/2 INCHES DEEP X 1/3 MEMBER THICKNESS.
- CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 INCHES
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	1-1/2 INCHES
#5 BARS AND SMALLER OTHERS	1-1/2 INCHES
C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	1-1/2 INCHES
- MISCELLANEOUS:
 - GROUT UNDER BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES SHALL BE NON-SHRINKING TYPE. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. GROUT BELOW BEARING PLATES, SETTING PLATES, AND COLUMN BASE PLATES SHALL BE INSTALLED ONLY AFTER THE STEEL IS PLUMBED.
- CONCRETE CUTTING AND BORING:
 - CONCRETE CUTTING AND BORING METHODS ARE "WAYS AND MEANS" OF CONSTRUCTION AND SHALL BE DETERMINED BY THE CONTRACTOR.
- ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" (U.N.O.).

DRAWING LIST

- | | |
|----------------|---|
| FT.T1.0 | DRAWING LIST
SPECIFICATIONS AND NOTES
SYMBOLS LEGEND |
| FT.1.0 | EQUIPMENT LIST
EQUIPMENT PLAN |
| FT.2.0 | PLUMBING DIAGRAM
PLUMBING PLAN |
| FT.3.0 | ELECTRICAL DIAGRAM
ELECTRICAL PLAN |
| FT.4.0 | DIMENSION PLAN |
| FT.5.0 | MECHANICAL ROOM LAYOUT |
| FT.6.0 | DETAILS
ARCH SECTION |

SYMBOLS LEGEND



WATER USAGE INFORMATION
60GPM PER MANIFOLD AT 5' SPRAY HEIGHT
360GPM W/ ALL NOZZLES ON AT 5' SPRAY HEIGHT

SCALE	VERIFY SCALE	SMITHGROUP	V&K	PROJECT #: EDP-0977(653)--7Y-29 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT CITY OF BURLINGTON, IOWA	DWG. NO. FT.T1.0
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.	VEENSTRA & KIMM, INC.	1800 5th Ave • Rock Island, Illinois 61201 309-786-7590 • 309-797-0996(FAO) • 877-241-8010(WATS)	DRAWING LIST, SPECIFICATIONS AND NOTES, SYMBOLS LEGEND	PROJECT 11682.001
CHECKED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				
APPROVED RW	DATE	REVISIONS			
DATE 04/22/2021					
ISSUED FOR BID DOCUMENTS					



BURLINGTON RIVERFRONT INTERACTIVE WATER FEATURE EQUIPMENT LIST

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
A	3" FRESH WATER FEATURE MANIFOLD W/ PRESSURE REGULATING VALVE, WATER HAMMER ARRESTOR, AND ALL REQUIRED FITTINGS	FOUNTAIN TECH. ZURN WILKINS	CUSTOM 3-500XLC	1
B	0-60 PSI/BAR LIQUID FILLED PRESSURE GAUGE, 2 1/2" POLYCARBONATE FACE. 300 S.S. CASE HOUSING. FLUID MEDIUM - GLYCERIN. 1/4" FNPT PORT	AMETEK	165297	14
C	3" ACRYLIC FLOW METER, HORIZONTAL MOUNT	BLUE & WHITE	F303001	1
D	2" ELECTRIC ACTUATOR BALL VALVES. 24-240V. 9 SECOND CYCLE TIME	VALWORX	561216E	6
E	FOOT-FRIENDLY, ILLUMINATED GROUND JET NICHE, ROUND FACE, COLUMN JET, 5FT SPRAY HEIGHT, 15GPM, 1" NPT INLET, 3" NPT DRAIN, WITH 12/24V, 30W RGBW LED, 3/4" NPT CONDUIT CONNECTION	CRYSTAL FOUNT.	LED170041 NWS110C115	24
F	3" IN-CONCRETE DRAIN FITTING. MATERIAL TO BE STAINLESS STEEL W/ GROUNDING LUG.	CRYSTAL FOUNT.	IWS300	6
G	4" IN-CONCRETE DRAIN FITTING. MATERIAL TO BE CAST BRONZE W/ STAINLESS STEEL FASTENERS	CRYSTAL FOUNT.	DTS400	4
H	316 STAINLESS STEEL GRATING W/ SS FRAME. SEE DETAIL FOR DIMENSIONS. GRATING TO BE IN 8' LONG REMOVABLE SECTIONS FOR EASE OF MAINTENANCE	KADEE INDUSTRIES	KD98 - CUSTOM	1
I	3/4" CORD SEALS, BRASS	CRYSTAL FOUNT.	EGS071	24
J	CUSTOM 316 STAINLESS STEEL ACTIVATION BOLLARD W/ 4 1/2" SIDE BUTTON. SEE DETAIL FOR FABRICATION INFORMATION. 3" HIGH, 5 3/8" Ø	FOUNTAIN TECH.	CUSTOM	1
K	ANEMOMETER AND WIND CONTROL PANEL	CRYSTAL FOUNT.	ECW100 ECWA20	1
L	DMX/RDM LED POWER / DATA SUPPLY 24VDC. 1000 WATT. 32 CHANNEL. 220V INCOMING POWER, 5 AMP. POOL RATED.	CRYSTAL FOUNT.	LEDPS517	1
M	LED DMX STORAGE AND PLAYBACK UNIT	CRYSTAL FOUNT.	LEDQUE2	1
N	CONTROL PANEL, NEMA 4 ENCLOSURE, SUPPLIED WITH TIME CLOCK FOR PUMPS, MOTOR STARTERS, LEVEL BOARD, RELAYS, AND ALL REQUIRED HAND-OFF SWITCHES	FOUNTAIN TECH.	CUSTOM	1
	OPERATION AND MAINTENANCE MANUALS PER SPECIFICATIONS	FOUNTAIN TECH.	CUSTOM	3

NOTE: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. PROVIDE PRODUCTS BY THE ABOVE MANUFACTURERS OR APPROVED EQUAL

NOTE: FOR EQUIPMENT SUPPLY AND INSTALLATION CONTACT: FOUNTAIN TECHNOLOGIES, LTD. 423 DENNISTON COURT, WHEELING, IL 60090 TEL: 847.537.3677 FAX: (847) 537-9904

2 EQUIPMENT LIST

NO SCALE

1 EQUIPMENT PLAN

SCALE: 1/16"=1'-0"

SCALE DRAWN SKH CHECKED RW APPROVED RW DATE 04/02/2021 ISSUED FOR BID DOCUMENTS	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	SMITHGROUP		PROJECT #: EDP-0977(653)--7Y-29 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT CITY OF BURLINGTON, IOWA 1800 5th Ave • Rock Island, Illinois 61201 309-786-7590 • 309-797-0996(FAX) • 877-241-8010(WATS)	EQUIPMENT LIST, EQUIPMENT PLAN	DWG. NO. FT.1.0 PROJECT 11682.001
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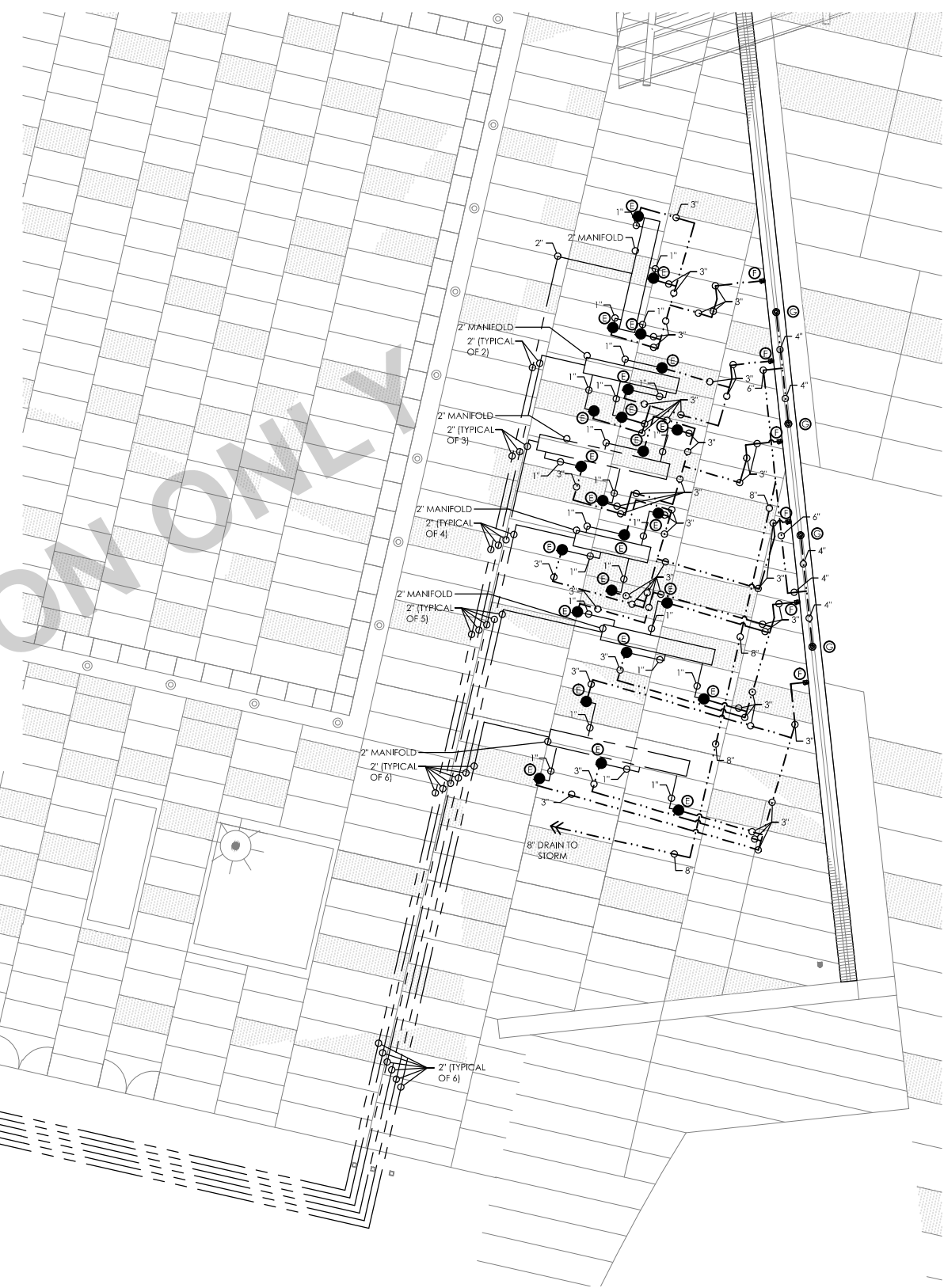
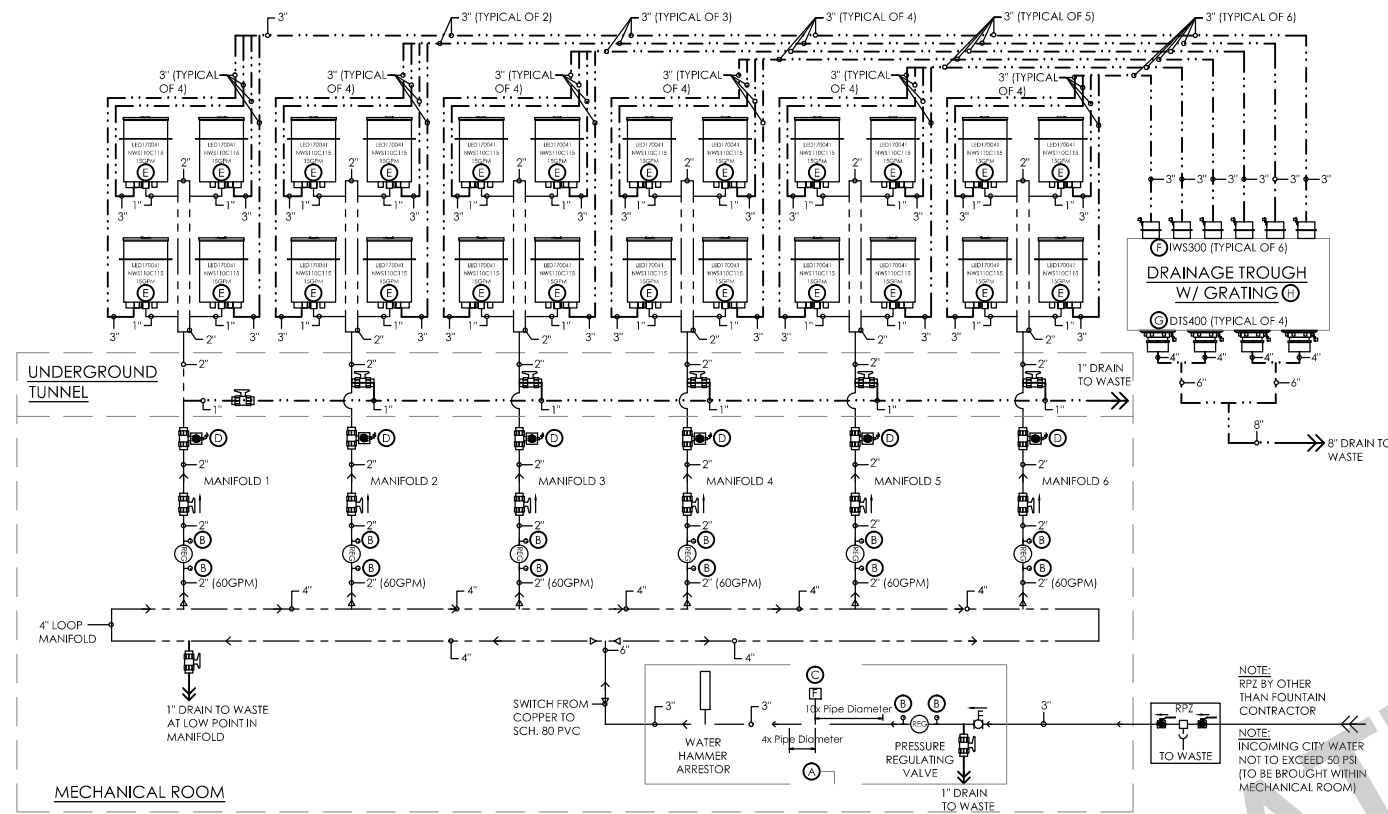
--- DISCHARGE PIPING
 - - - DRAINAGE PIPING

SCHEMATIC SYMBOLS LEGEND

BALL VALVE (COPPER)	
TRUE UNION BALL VALVE	
BUTTERFLY VALVE	
GEAR OPERATED VALVE	
CHECK VALVE	
SOLENOID VALVE	
HOSE BIBB	
REDUCER FITTING	
REDUCER - CONCENTRIC	
REDUCER - ECCENTRIC	
FLOW METER	
PRESSURE GAUGE	
VACUUM GAUGE	
UNION	
PRESSURE REGULATOR	
PRESSURE REGULATING VALVE	
ELEC. ACTUATED BALL VALVE	

WATER USAGE INFORMATION	
60GPM PER MANIFOLD AT 5' SPRAY HEIGHT	
360GPM W/ ALL NOZZLES ON AT 5' SPRAY HEIGHT	

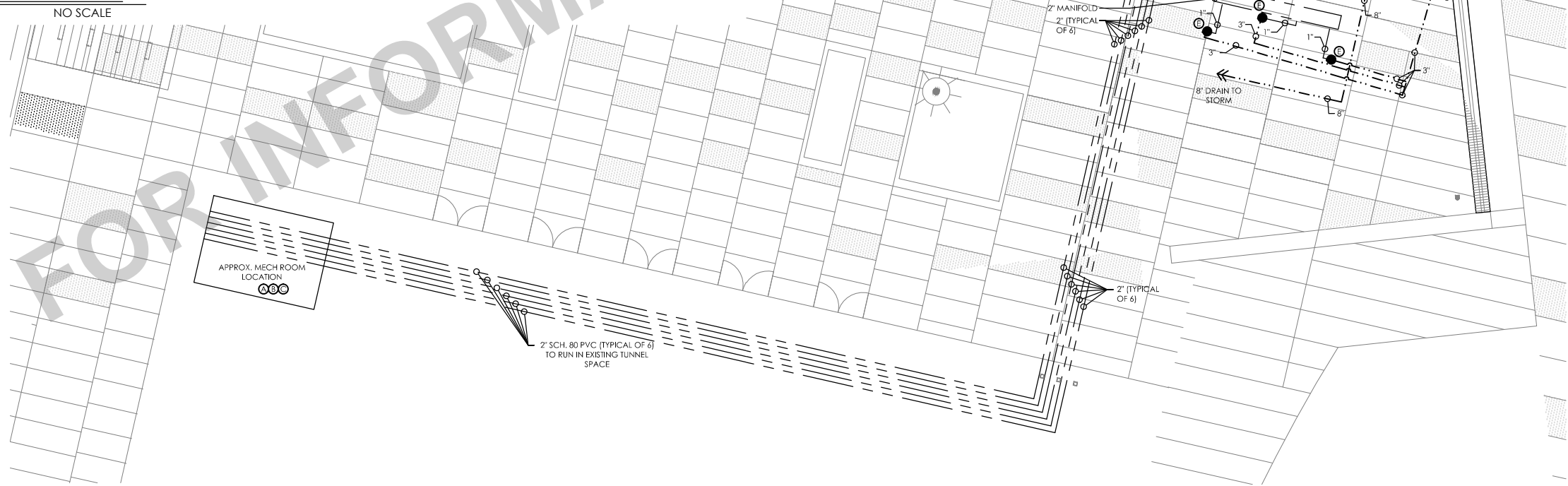
NOTE:
 INCOMING WATER PRESSURE NOT TO EXCEED 50 PSI
NOTE:
 BACKFLOW PREVENTER TO BE PROVIDED BY G.C./OWNER



1 PLUMBING DIAGRAM

BURLINGTON RIVERFRONT LEGEND

ITEM	DESCRIPTION
A	FRESH WATER MANIFOLD
B	PRESSURE GAUGE
C	FLOW METER
D	ACTUATOR BALL VALVES
E	ILLUMINATED GROUND JET
F	3" DRAIN FITTING
G	4" DRAIN FITTING
H	S.S. GRATING
I	CORD SEALS
J	S.S. ACTIVATION BOLLARD
K	ANEMOMETER AND WIND CONTROL PANEL
L	LED POWER / DATA SUPPLY
M	LED DMX STORAGE AND PLAYBACK UNIT
N	CONTROL PANEL



2 PLUMBING PLAN

SCALE: 1/16" = 1'-0"

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	1"
DATE 04/22/2021	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE REVISIONS

W&K

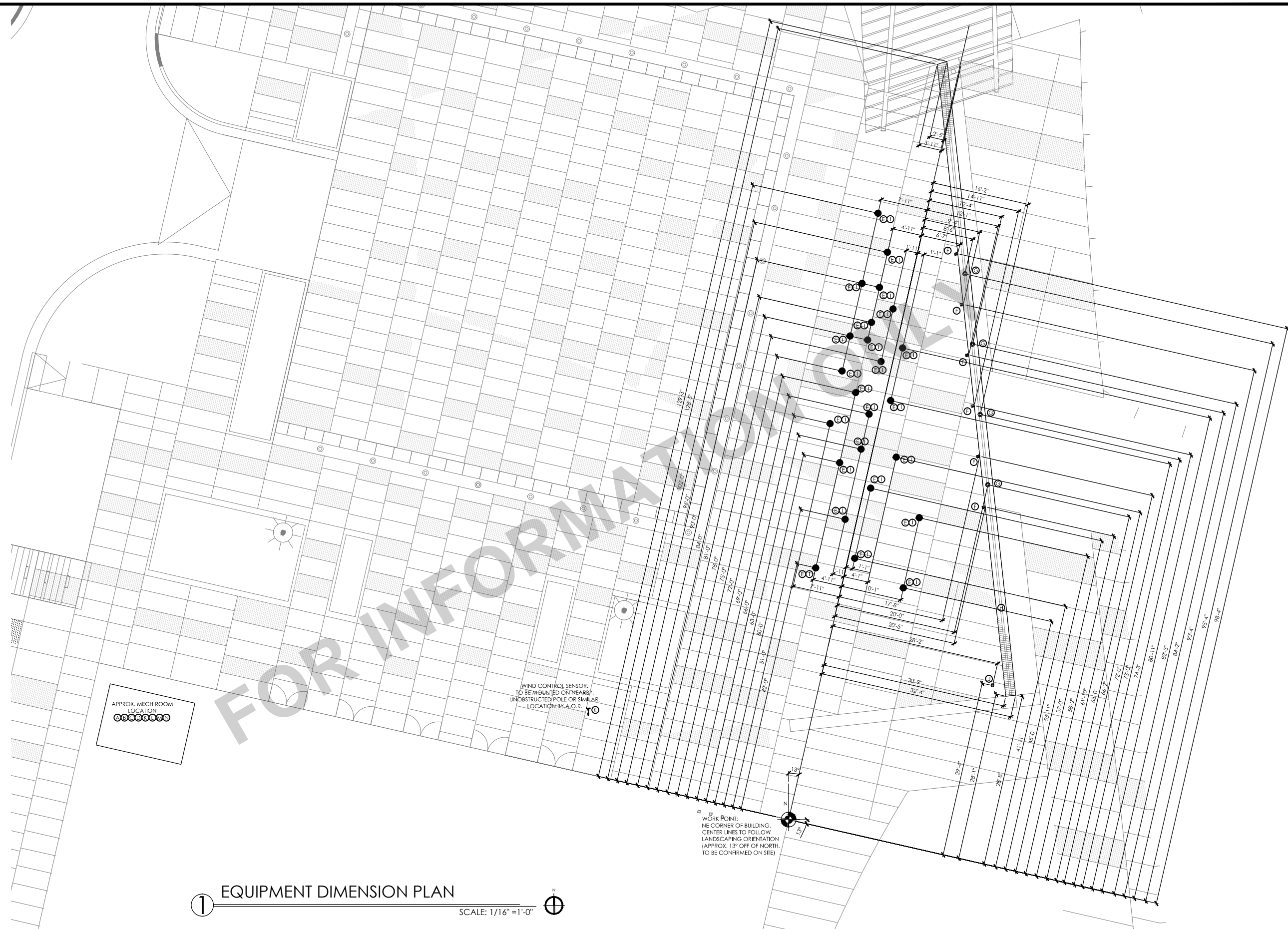
VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
 309-786-7590 • 309-797-0996(FAX) • 877-241-8010(WATS)

PLUMBING DIAGRAM, PLUMBING PLAN

DWG. NO.	FT.2.0
PROJECT	11682.001



BURLINGTON RIVERFRONT LEGEND	
ITEM	DESCRIPTION
A	FRESH WATER MANIFOLD
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E	ILLUMINATED GROUND JET
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K	ANEMOMETER AND WIND CONTROL PANEL
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M	LED DMX STORAGE AND PLAYBACK UNIT
N	CONTROL PANEL

APPROX. MECH ROOM LOCATION

WIND CONTROL SENSOR TO BE MOUNTED ON NEARBY UNOBSTRUCTED POLE OR SIMILAR LOCATION BY A.O.R.

WORK POINT: NE CORNER OF BUILDING. CENTER LINES TO FOLLOW LANDSCAPING ORIENTATION (APPROX. 13° OFF OF NORTH. TO BE CONFIRMED ON SITE)

① EQUIPMENT DIMENSION PLAN
 SCALE: 1/16" = 1'-0"

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 1"
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/02/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE REVISIONS

W&K

VEENSTRA & KIMM, INC.

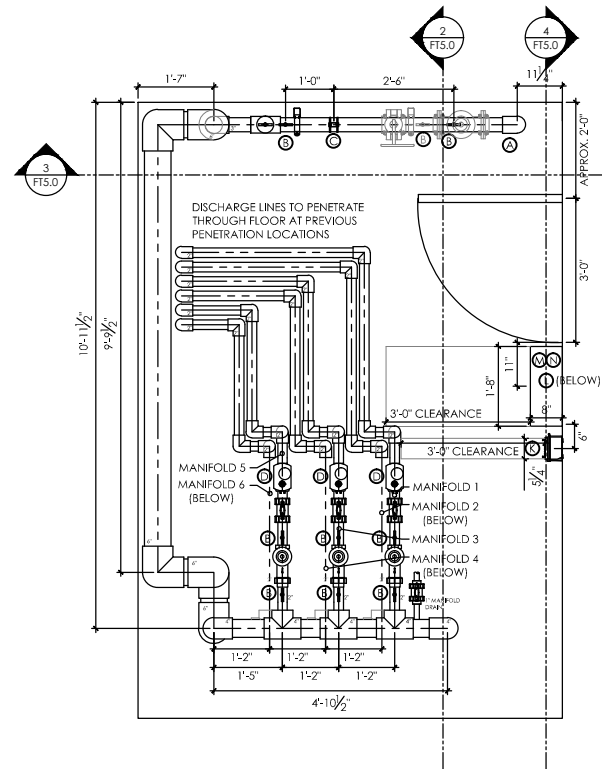
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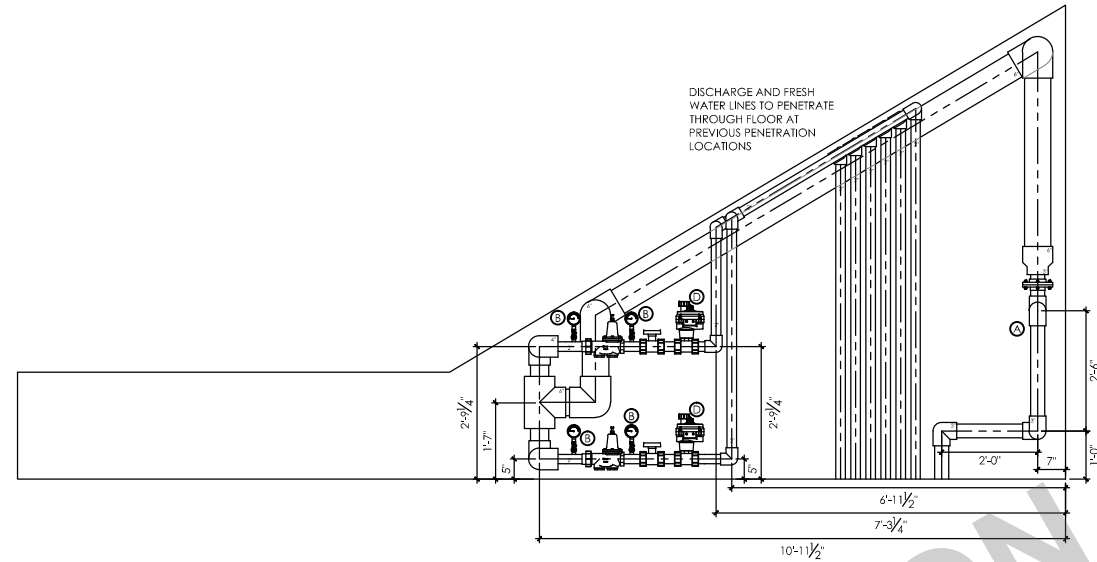
DIMENSION PLAN

DWG. NO. FT.4.0

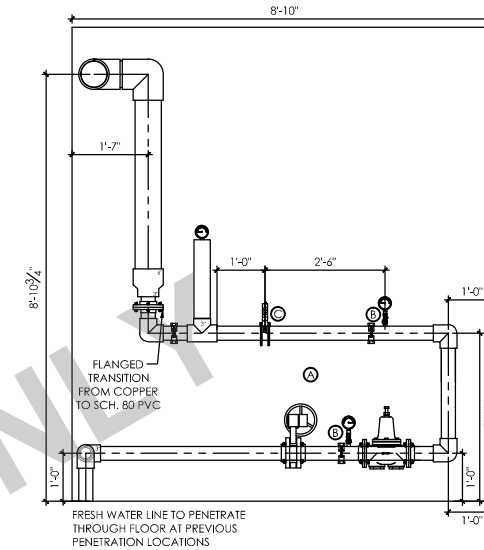
PROJECT 11682.001



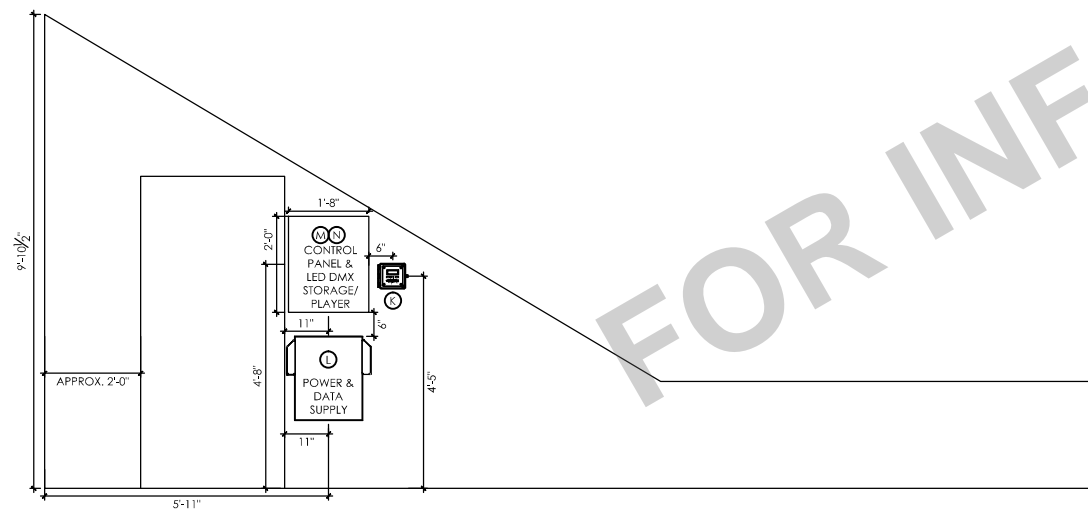
1 MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"



2 MECHANICAL ROOM SECTION
SCALE: 1/4" = 1'-0"



3 MECHANICAL ROOM SECTION
SCALE: 1/4" = 1'-0"



4 MECHANICAL ROOM SECTION
SCALE: 1/4" = 1'-0"

BURLINGTON RIVERFRONT LEGEND	
ITEM	DESCRIPTION
A	FRESH WATER MANIFOLD
B	PRESSURE GAUGE
C	FLOW METER
D	ACTUATOR BALL VALVES
E	ILLUMINATED GROUND JET
F	3" DRAIN FITTING
G	4" DRAIN FITTING
H	S.S. GRATING
I	CORD SEALS
J	S.S. ACTIVATION BOLLARD
K	ANEMOMETER AND WIND CONTROL PANEL
L	LED POWER / DATA SUPPLY
M	LED DMX STORAGE AND PLAYBACK UNIT
N	CONTROL PANEL

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 1"
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/02/2021	
ISSUED FOR BID DOCUMENTS	

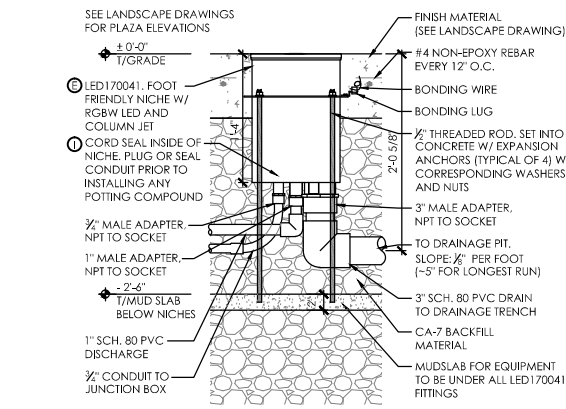
SMITHGROUP	
DATE	REVISIONS



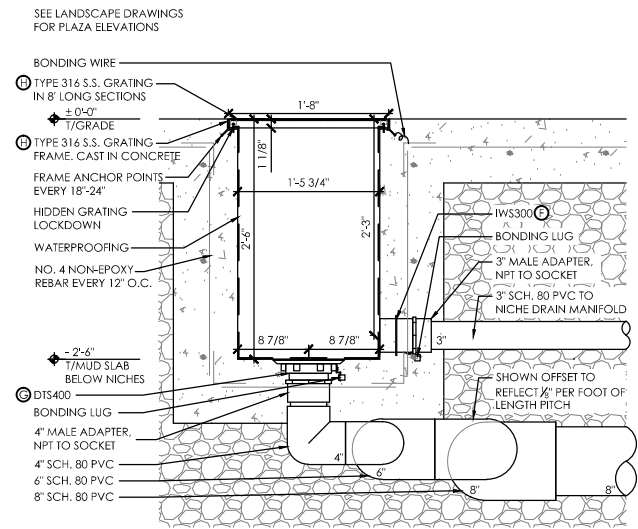
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MECHANICAL ROOM LAYOUT

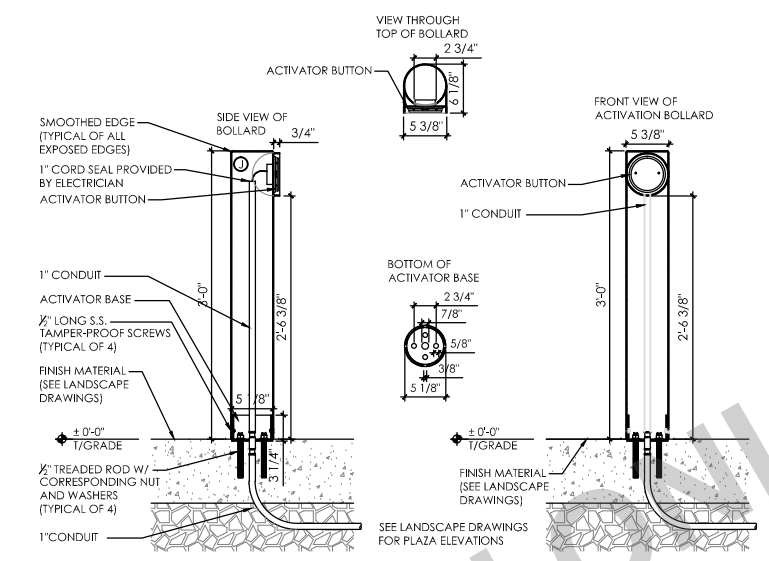
DWG. NO.	FT.5.0
PROJECT	11682.001



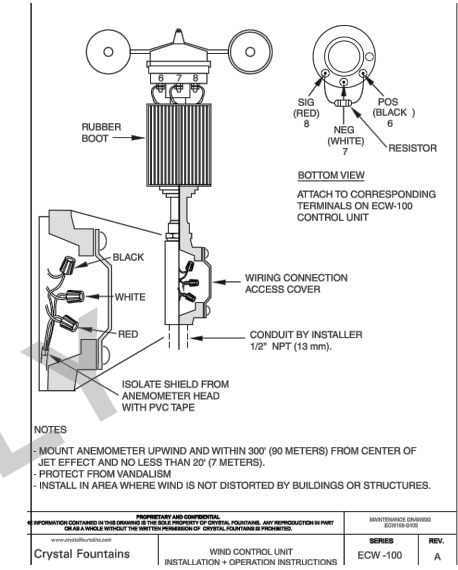
① LED170041 DETAIL SCALE: 1/2"=1'-0"



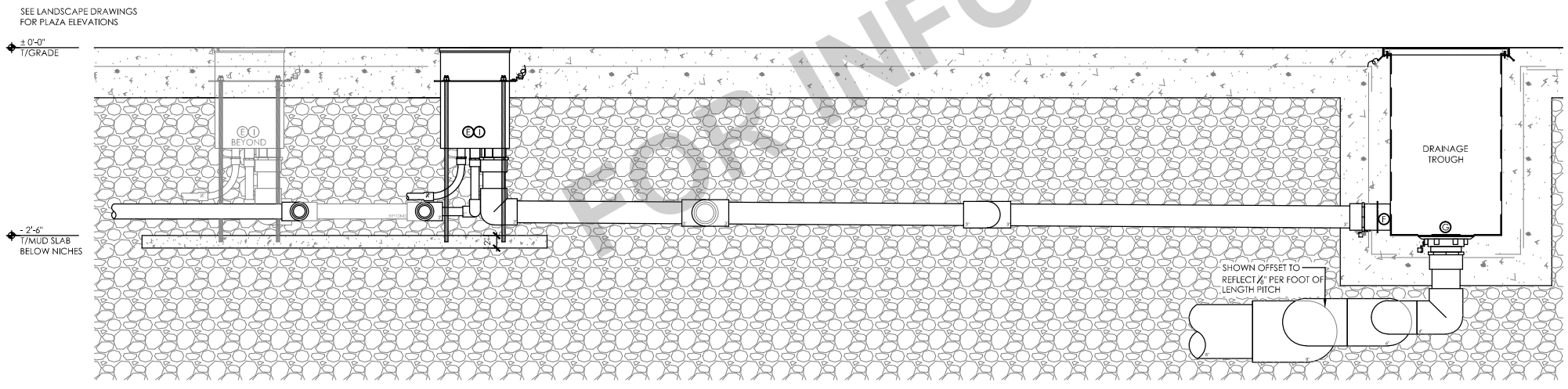
② DRAINAGE TROUGH DETAIL SCALE: 1/2"=1'-0"



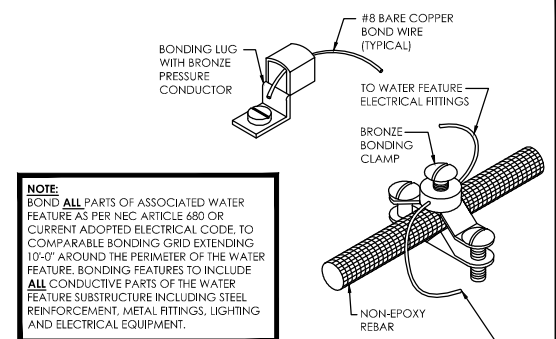
③ ACTIVATION BOLLARD DETAIL SCALE: 1/2"=1'-0"



④ ANEMOMETER INSTALLATION DETAIL NO SCALE



⑤ ARCH SECTION SCALE: 1/2"=1'-0"



NOTE: BOND ALL PARTS OF ASSOCIATED WATER FEATURE AS PER NEC ARTICLE 680 OR CURRENT ADOPTED ELECTRICAL CODE. TO COMPARABLE BONDING GRID EXTENDING 10'-0" AROUND THE PERIMETER OF THE WATER FEATURE. BONDING FEATURES TO INCLUDE ALL CONDUCTIVE PARTS OF THE WATER FEATURE SUBSTRUCTURE INCLUDING STEEL REINFORCEMENT, METAL FITTINGS, LIGHTING AND ELECTRICAL EQUIPMENT.

NOTE: ALL BONDING CONDUCTORS TO BE #8 SOLID COPPER WIRE (TYPICAL)

NOTE: ALL METAL/CONDUCTIVE PARTS WITHIN 5'-0" OF THE INSIDE WALLS OF WATER FEATURE AND ALL METAL/CONDUCTIVE PARTS OF ASSOCIATED ELECTRICAL EQUIPMENT MUST BE BONDED TOGETHER (PER NEC 680)

NOTE: ALL BONDING SHALL BE CONTINUOUS WITHOUT SPLICES. ALL CONNECTIONS SHALL BE MADE BY EXOTHERMIC WELD OR FITTING APPROVED FOR SUCH USE IN FOUNTAINS AND POOLS.

ELECTRICAL BONDING/GROUNDING NOTES

CONNECTOR FOR #8 GROUND WIRE & REBAR, UL LISTED DIRECT BURIAL IN EARTH OR CONCRETE:

- BURNIDY #C-11 (1/2" - 3/4" REBAR)
- ILSCO #CGRC-XX
- ILSCO #GPL-X
- GREAVES "JONES" REBAR CLAMP
- HARGER #RB12A
- [OR EQUAL]

MAKE FOUR REBAR CONNECTIONS MINIMUM OF THE GROUND WIRE AROUND THE WATER FEATURE.

BONDING CONNECTOR TO METAL SHELL LINED WATER FEATURE SHALL BE UL LISTED FOR DIRECT BURIAL IN EARTH OR CONCRETE:

- BURNIDY #GB4C (3/8" BOLT)
- ILSCO #SLU-35DB (#10)
- [OR EQUAL]

TAP CONNECTOR FOR #8 SOLID TO #8 SOLID GROUND WIRE, UL LISTED FOR DIRECT BURIAL IN EARTH OR CONCRETE:

- ILSCO #IKDB-6
- BURNIDY #KS17-DB
- ERCO #SRGC46
- GREAVES
- [OR EQUAL]

#8 GROUND WIRE LUG CONNECTOR SUITABLE FOR PURPOSE TO CONNECT FRAMES OF MOTORS, METAL ELECTRICAL EQUIPMENT ENCLOSURES AND METAL PIPING:

- GREAVES
- ILSCO
- [OR EQUAL]

BRANCH CIRCUIT TO MOTORS, ELECTRICAL CABINETS, CONTROLLERS, BOXES AND PANELS SHALL INCLUDE AND INSULATED COPPER GROUNDING CONDUCTOR.

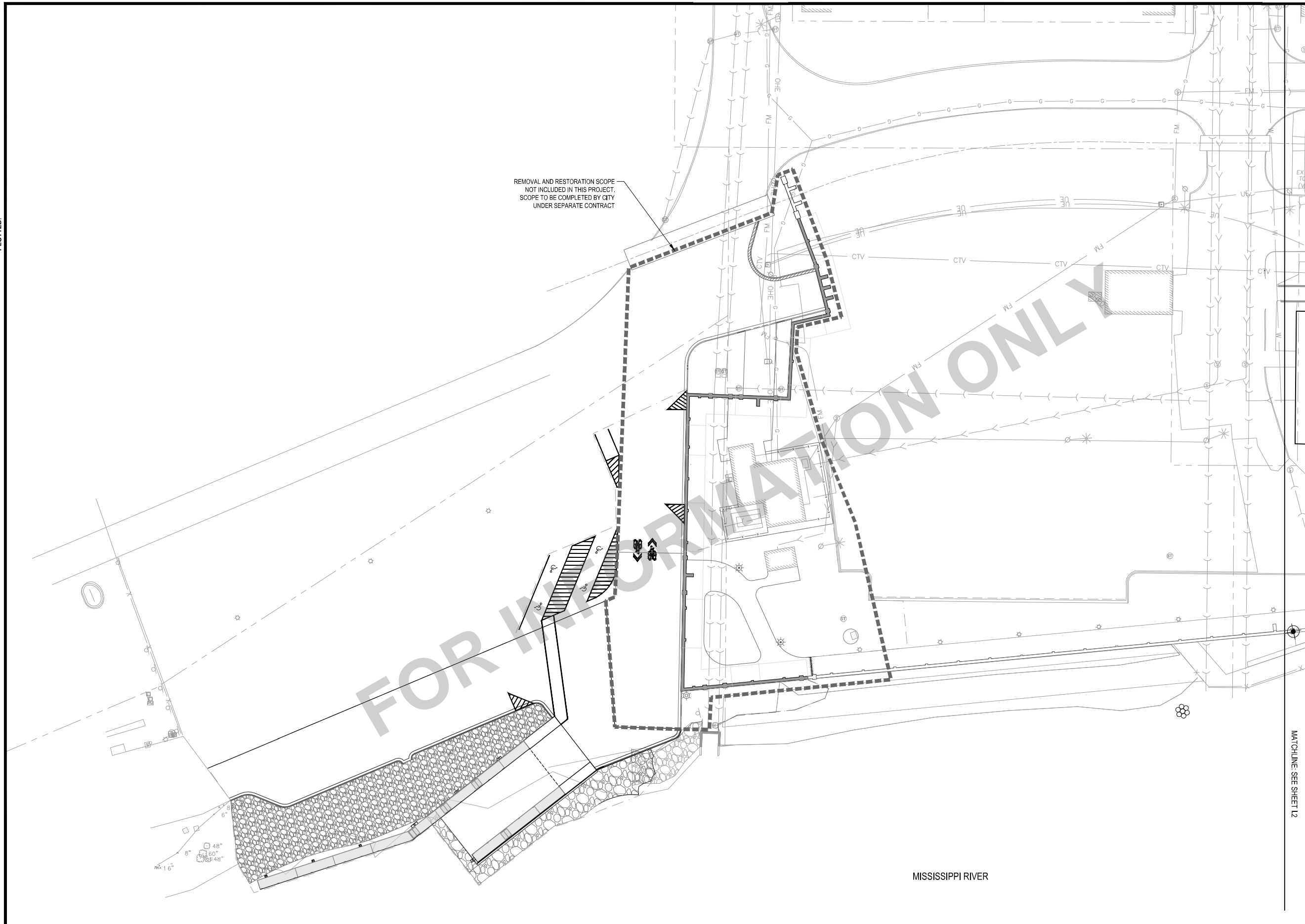
BONDING CONDUCTORS ARE BARE #8 SOLID COPPER, UNLESS OTHERWISE NOTED. SPLICES TO BE MADE WITH HIGH COMPRESSION CONNECTORS, EXOTHERMIC TYPE OR TWO (2) MECHANICAL CONNECTORS. GROUND CONDUCTORS ACCOMPANYING CIRCUIT CONNECTORS IN CONDUIT ARE STRANDED OR GREEN INSULATED COPPER BUILDING WIRE.

BONDING/GROUNDING CONNECTORS SHALL BE UL LISTED FOR THE PURPOSE INTENDED. INSTALL AND TORQUE BOLTS WITH THE MANUFACTURER'S RECOMMENDED TOOL AND INSTRUCTIONS.

CONNECTORS BURIED DIRECTLY IN EARTH OR CONCRETE SHALL BE UL-487 LISTED AND VERIFIED IN THE FIELD BY THE ELECTRICAL INSPECTOR PRIOR TO BACKFILLING.

⑥ BONDING DETAIL AND NOTES NO SCALE

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-IMAG & 11682-001-VK-LAYO-RVR & 11682-001-L-PLNT & 11682-001-C-SURV-RVR-COMB & 11682-001-C-UTIL & 11682-000-C-STREETSCAPE-JEFF & 11682-000-L-PLNT-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-MATL & 11682-001-C-PHAS
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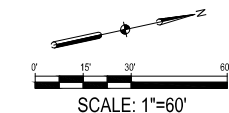
SHEET NOTES

- SEE SHEET L6 FOR PLANT SCHEDULE
- PERENNIAL GROUPINGS IDENTIFIED AS 'PMIX' TO BE COMPRISED OF RANDOM AND EVEN DISTRIBUTION OF THOSE PERENNIALS LISTED UNDER 'PMIX PERENNIALS' IN THE PLANT SCHEDULE.

LANDSCAPE LEGEND

- LAWN SEED MIX
- IRRIGATED SAND-BASED TURF WITH UNDERDRAIN SYSTEM
- EXISTING TREES
- DECIDUOUS SHADE TREE
- CONIFEROUS EVERGREEN TREE
- ORNAMENTAL TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- INDIVIDUAL ORNAMENTAL GRASS / PERENNIAL

KEYED NOTES



SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SMITHGROUP

DATE	REVISIONS
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V&K
VEENSTRA & KIMM, INC.

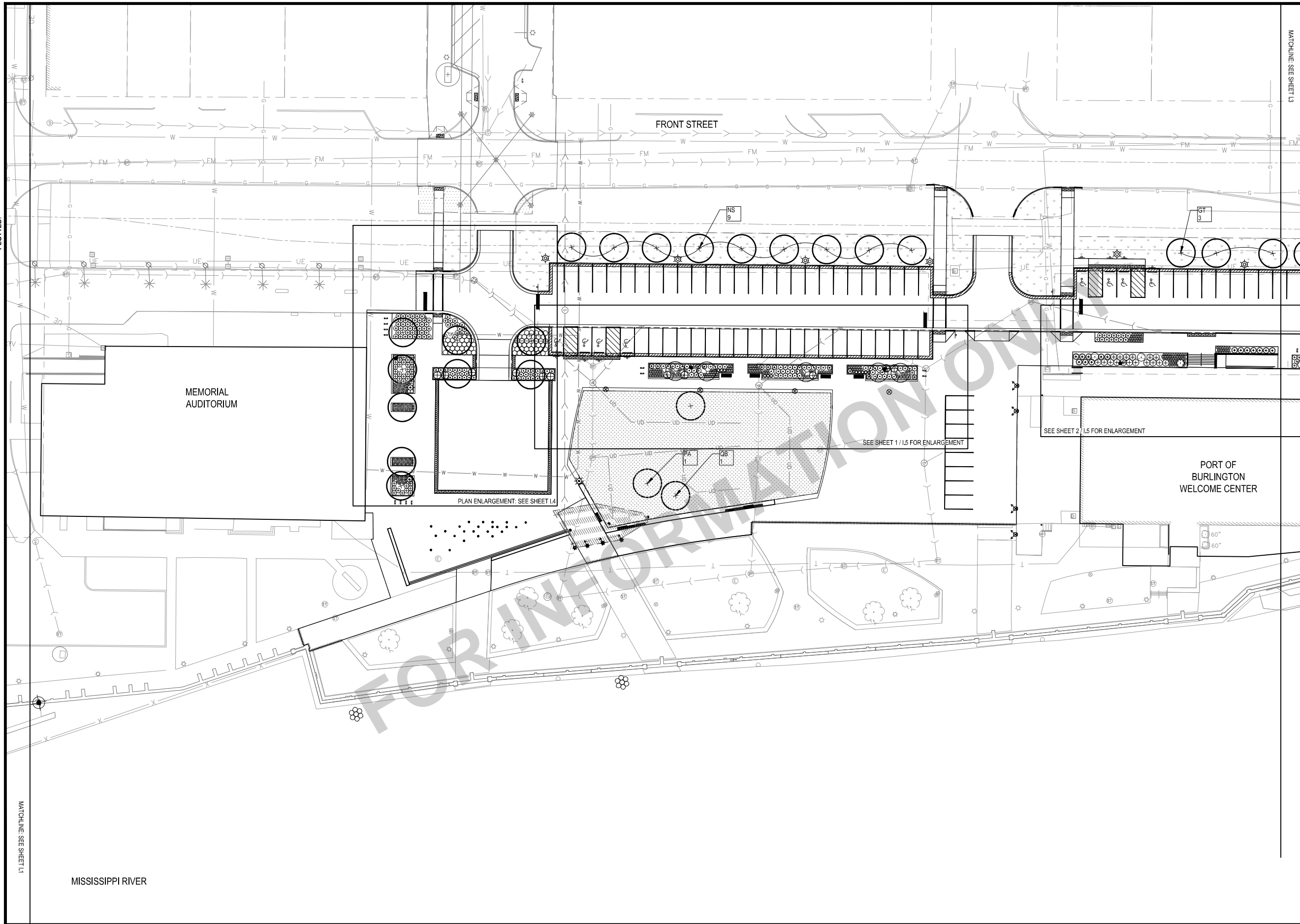
PROJECT #: EDP-0977(653)-7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

LANDSCAPE PLAN - AREA 1

DWG. NO.	I.1
PROJECT	

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-IMAG & 11682-001-L-PLNT & 11682-001-VK-LAYO-RVR & 11682-001-VK-LAYO-JEFF & 11682-001-C-MATL & 11682-001-C-PHAS
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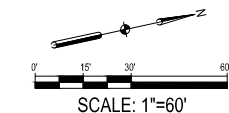


SHEET NOTES

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- PERENNIAL GROUPINGS IDENTIFIED AS 'PMIX' TO BE COMPRISED OF RANDOM AND EVEN DISTRIBUTION OF THOSE PERENNIALS LISTED UNDER 'PMIX PERENNIALS' IN THE PLANT SCHEDULE.

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- CONIFEROUS SHRUB
- INDIVIDUAL ORNAMENTAL GRASS / PERENNIAL



SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED RW	
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE	REVISIONS

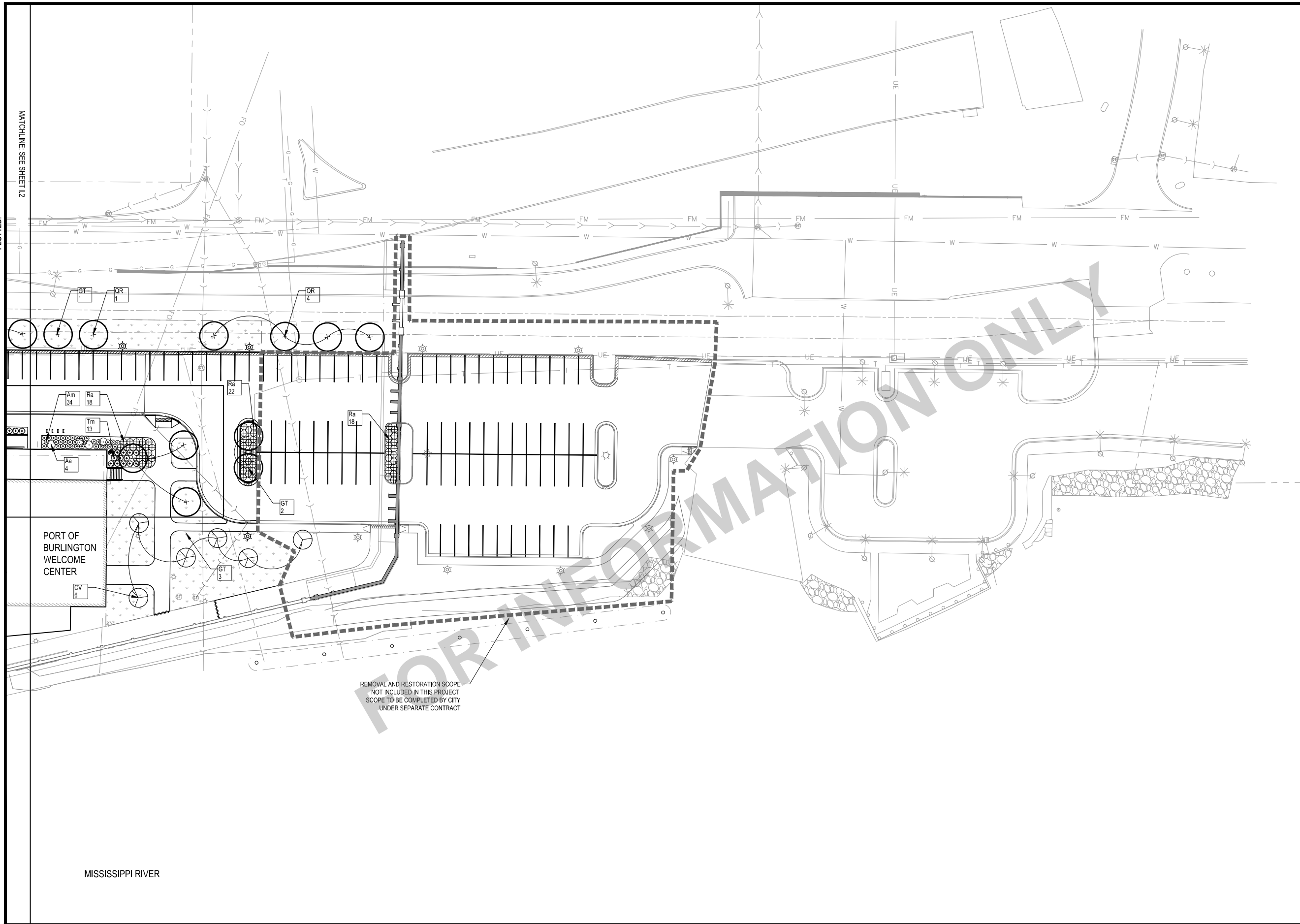


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LANDSCAPE PLAN - AREA 2

DWG. NO.	1.2
PROJECT	

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-VK-LAYO-RVR & 11682-001-L-PLNT & 11682-001-C-SURV-RVR-COMB & 11682-001-C-UTIL & 11682-000-C-STREETSCAPE-JEFF & 11682-000-L-PLNT-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-MATL & 11682-001-C-PHAS
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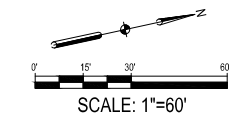


SHEET NOTES

- SEE SHEET L6 FOR PLANT SCHEDULE
- PERENNIAL GROUPINGS IDENTIFIED AS 'PMIX' TO BE COMPRISED OF RANDOM AND EVEN DISTRIBUTION OF THOSE PERENNIALS LISTED UNDER 'PMIX PERENNIALS' IN THE PLANT SCHEDULE.

LANDSCAPE LEGEND

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- ORNAMENTAL TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- INDIVIDUAL ORNAMENTAL GRASS / PERENNIAL



SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE	REVISIONS



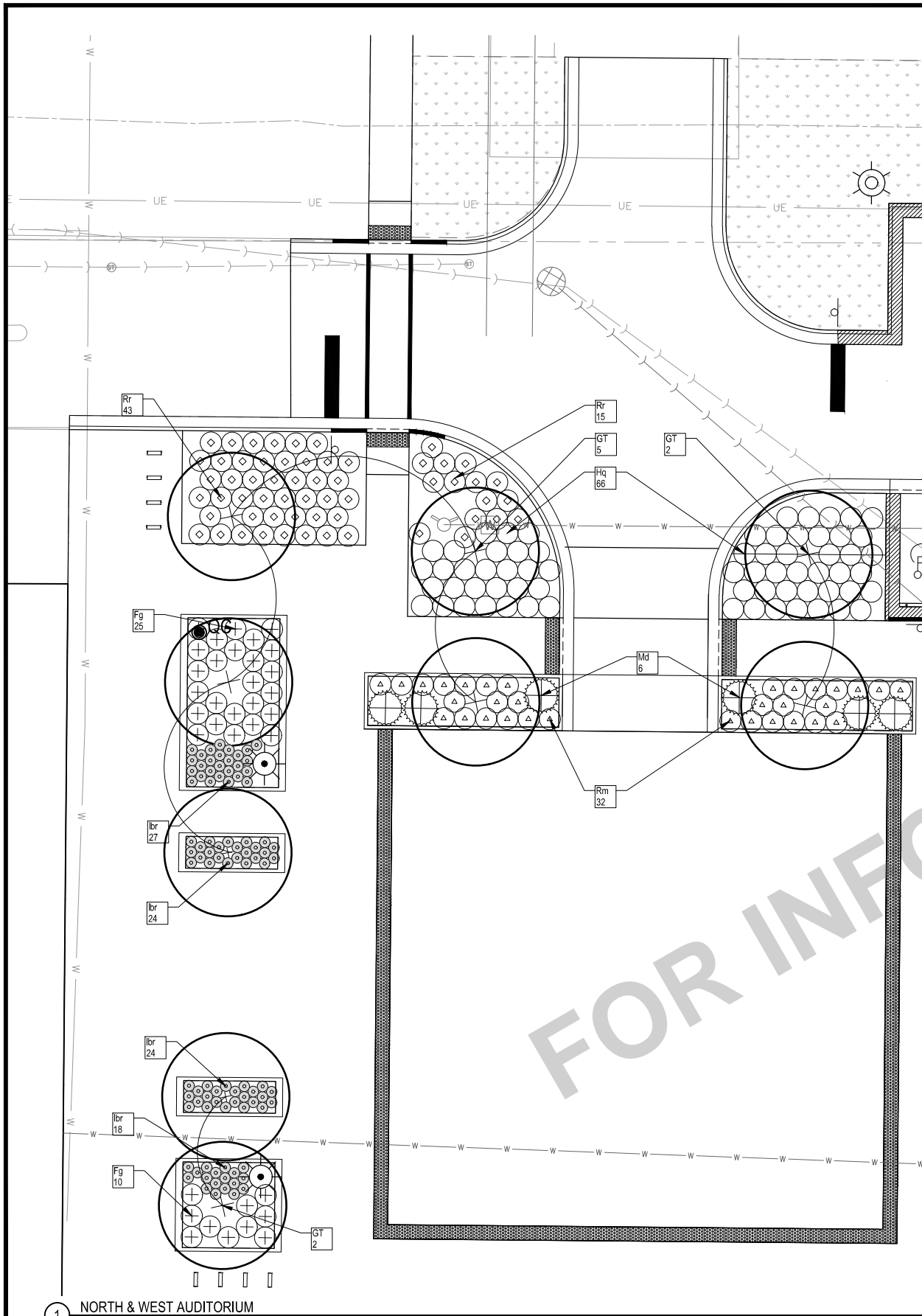
PROJECT #: EDP-0977(653)-7Y-29
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LANDSCAPE PLAN - AREA 3

DWG. NO.	1.3
PROJECT	

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-IMAG & 11682-001-VK-LAYO-RVR & 11682-001-L-PLNT & 11682-001-C-SURV-RVR-COMB & 11682-001-C-UTIL & 11682-000-C-STREETSCAPE-JEFF & 11682-000-L-PLNT-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-MATL & 11682-001-C-PHAS
 FILE PATH:



1 NORTH & WEST AUDITORIUM

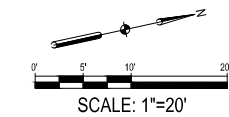
SHEET NOTES

1. SEE SHEET L6 FOR PLANT SCHEDULE
2. PERENNIAL GROUPINGS IDENTIFIED AS 'PMIX' TO BE COMPRISED OF RANDOM AND EVEN DISTRIBUTION OF THOSE PERENNIALS LISTED UNDER 'PMIX PERENNIALS' IN THE PLANT SCHEDULE.

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- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- INDIVIDUAL ORNAMENTAL GRASS / PERENNIAL

KEYED NOTES



SCALE	1"=20'
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
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SMITHGROUP

DATE	REVISIONS

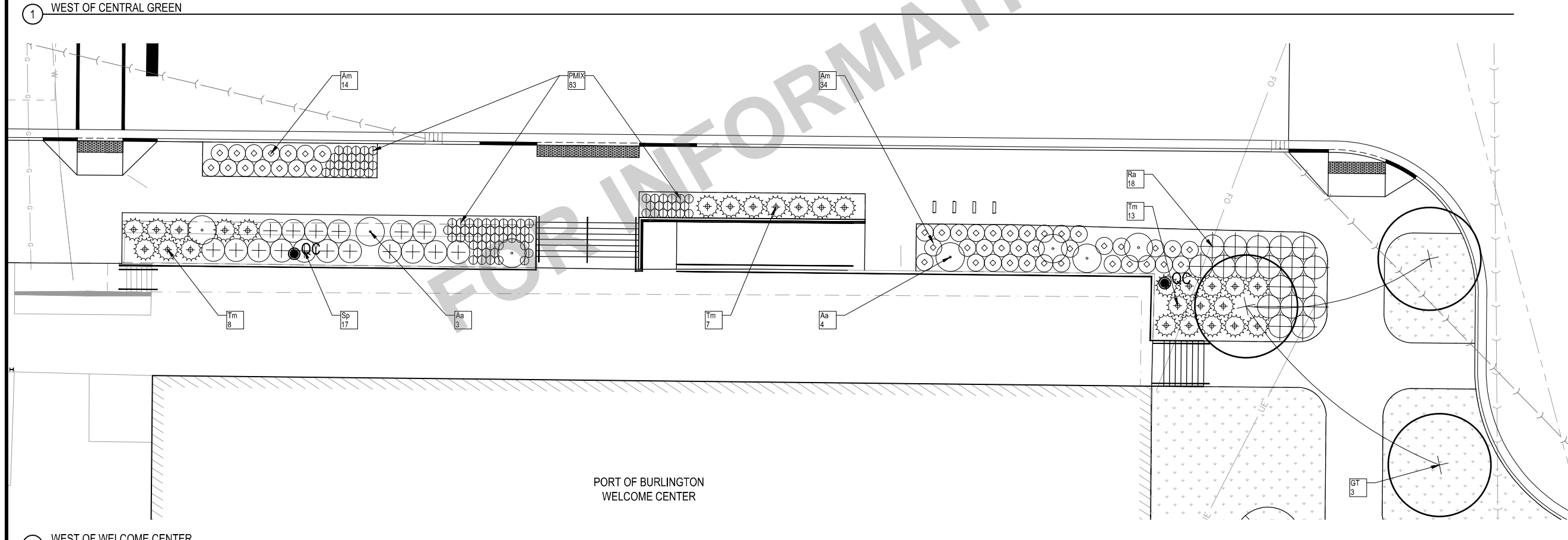
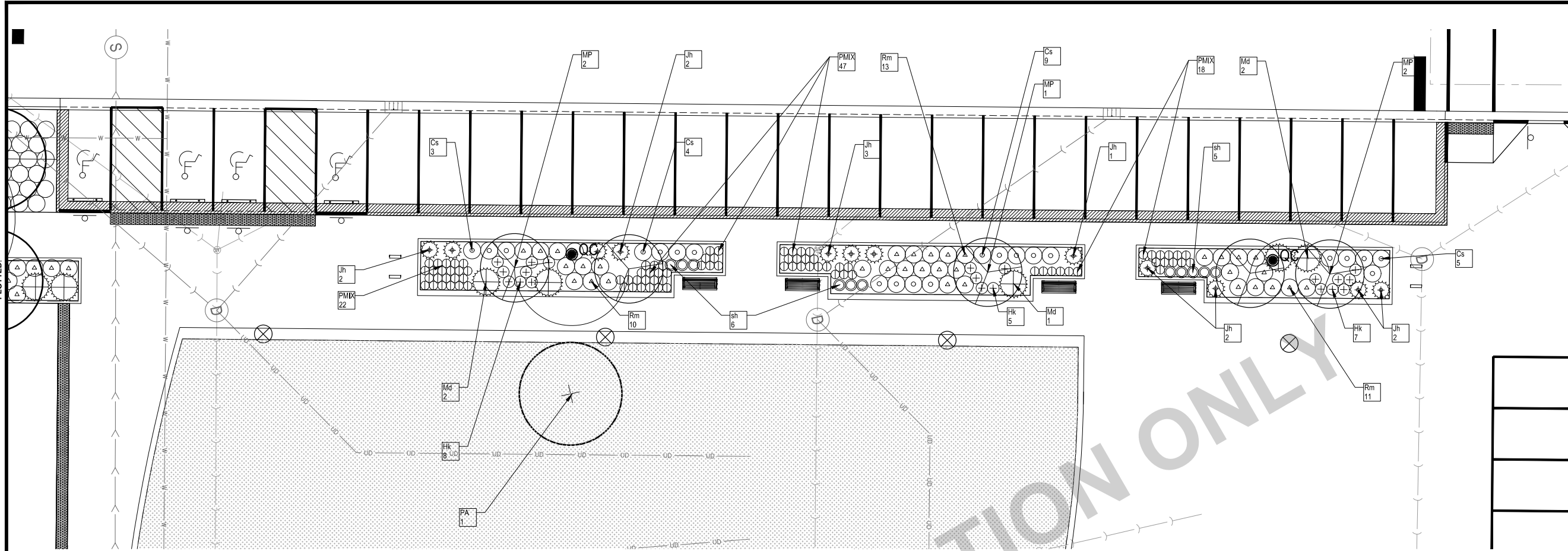
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LANDSCAPE ENLARGEMENT

DWG. NO.	1.4
PROJECT	

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-IMAG & 11682-001-VK-LAYO-RVR & 11682-001-L-PLNT & 11682-001-C-SURV-RVR-COMB & 11682-001-C-UTIL & 11682-000-C-STREETSCAPE-JEFF & 11682-000-L-PLNT-JEFF & 11682-000-VK-LAYO-JEFF & 11682-001-C-MATL & 11682-001-C-PHAS
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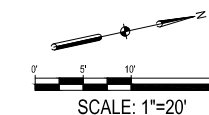
SHEET NOTES

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- PERENNIAL GROUPINGS IDENTIFIED AS 'PMIX' TO BE COMPRISED OF RANDOM AND EVEN DISTRIBUTION OF THOSE PERENNIALS LISTED UNDER 'PMIX PERENNIALS' IN THE PLANT SCHEDULE.

LANDSCAPE LEGEND

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KEYED NOTES



SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED RW	
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE _____ REVISIONS _____

VEENSTRA & KIMM, INC.

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LANDSCAPE ENLARGEMENT

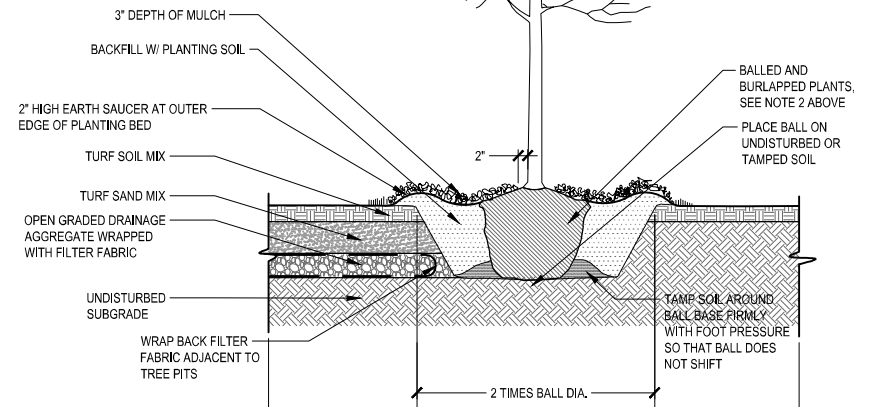
DWG. NO. **1.5**

PROJECT

X-REFS: 11682-001-TTBK & GANGWAY DETAILS & 11682-UTL-PDF & 11682-LAND-DETAILS & DETL-CATCH BASIN & SANITARY SEWER MANHOLE & STANDARD GATE VALVE BOX SETTING & STANDARD WATER MAIN TRENCH SECTION & STORM MANHOLE & THRUST BLOCKING & STANDARD SEWER L

NOTES:

1. PLANT EACH TREE SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
2. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET AND REMOVE COMPLETELY FROM ROOT BALL. REMOVE TWINE, ROPE, AND BURLAP ENTIRELY FROM ROOT BALL.
3. DO NOT PLACE MULCH IN CONTACT WITH TRUNK.
4. PRUNE ONLY TO REMOVE DEAD OR BROKEN BRANCHES.

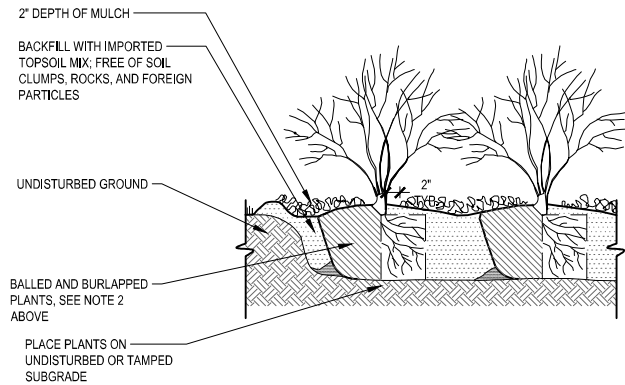


1 DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

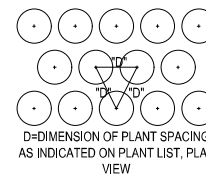
NOTES:

1. PLANT EACH SHRUB SUCH THAT THE ROOT COLLAR IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.
2. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET AND REMOVE COMPLETELY FROM ROOT BALL. REMOVE TWINE, ROPE, AND BURLAP ENTIRELY FROM ROOT BALL.
3. DO NOT PLACE MULCH IN CONTACT WITH STEMS.



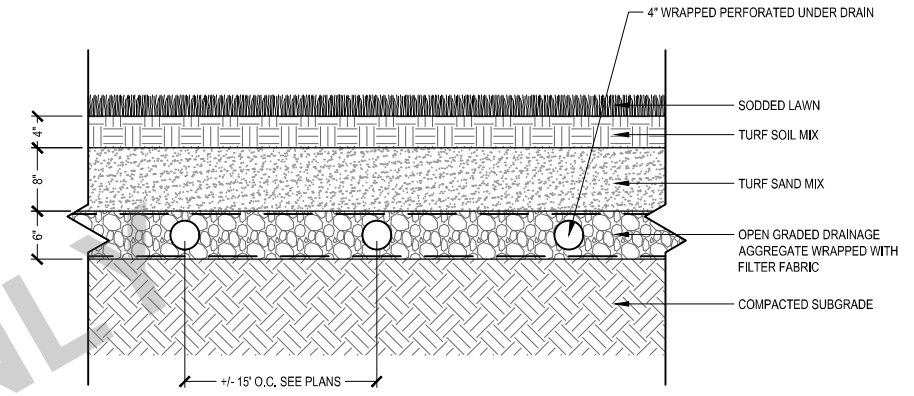
2 SHRUB PLANTING DETAIL

NOT TO SCALE



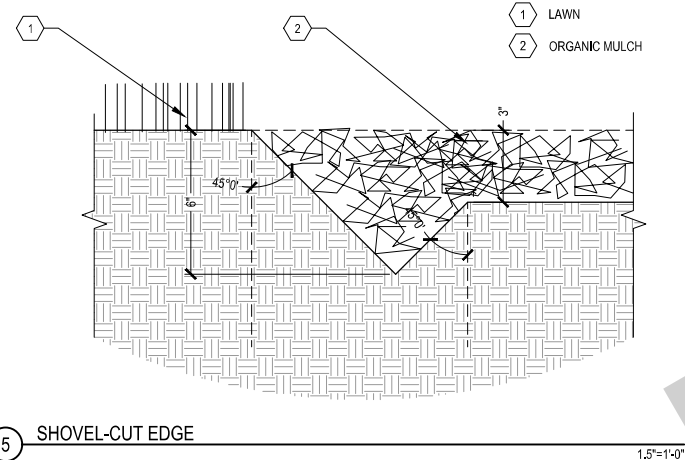
3 PLANT SPACING DETAIL

NOT TO SCALE



4 SAND BASED TURF

NOT TO SCALE



5 SHOVEL-CUT EDGE

1.5"=1'-0"

SYM	SCIENTIFIC NAME	COMMON NAME	QTY	SIZE	ROOT / COMMENT
TREES					
DECIDUOUS SHADE TREES					
GT	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	18	4" CAL	B&B
PA	Platanus x acerifolia	London Plane Tree	2	6" CAL	B&B
QB	Quercus bicolor	Swamp White Oak	1	6" CAL	B&B
QR	Quercus rubra	Red Oak	5	4" CAL	B&B
NS	Nyssa sylvatica	Black Tupelo	9	5" CAL	B&B
ORNAMENTAL TREES					
CV	Crataegus viridis 'Winter King'	Winter King Hawthorn		9' HT	B&B / MULTISTE M
MP	Malus 'Prairiefire'	Prairiefire Crabapple	5	9' HT	B&B / MULTISTE M
TOTAL:			40		
SHRUB					
EVERGREEN SHRUBS					
Jh	Juniperus horizontalis 'Youngstown'	Youngstown Andorra Juniper	12	#5 CONT	
Md	Mirobiota decussata	Siberian Carpet Cypress	11	#5 CONT	
Tm	Taxus x media 'Tauntonii'	Taunton Yew	28	#5 CONT	
DECIDUOUS SHRUBS					
Aa	Amelanchier alnifolia 'Obelisk'	First Editions Standing Ovation™ Serviceberry	7	8 FT	B&B / MULTISTE M
Am	Aronia melanocarpa 'Morton'	Iroquois Beauty Chokeberry	48	#5 CONT	
Cs	Cornus stolonifera 'Farrow'	Arctic Fire Dogwood	21	#5 CONT	
Fg	Fothergilla gardenii	Dwarf Fothergilla	35	#5 CONT	
Hq	Hydrangea quercifolia 'Munchkin'	Oakleaf Hydrangea	66	#5 CONT	
Hk	Hypericum kalmianum	Kalm's St. Johnswort	20	#5 CONT	
Ra	Rhus aromatica 'Gro-Low'	Grow Low Sumac	58	#5 CONT	

6 PLANTING SCHEDULE

Rm	Rosa 'Meigll'	Peach Drift Groundcover Rose	66	#3 CONT	
Rr	Rosa rugosa 'JACruwhi'	Wild Spice Rose	58	#5 CONT	
Sp	Syringa x 'Penda'	Boomerang Purple Lilac	17	#5 CONT	
TOTAL:			447		
PMIX GRASSES AND PERENNIALS					
am	Achillea millefolium 'Walther Funcke'	Walther Funcke Yarrow	19	#1 CONT	SEE NOTE RE 'PMIX'
at	Asclepias tuberosa	Butterfly Weed	19	#1 CONT	SEE NOTE RE 'PMIX'
eps	Echinacea 'Prairie Splendor'	Prairie Splendor Coneflower	18	#1 CONT	SEE NOTE RE 'PMIX'
hf	Helenium Flexuosum 'Tiny Dancer'	Tiny Dancer Sneezeweed	19	#1 CONT	SEE NOTE RE 'PMIX'
Is	Liatris spicata	Blazing Star	19	#1 CONT	SEE NOTE RE 'PMIX'
msw	Monarda 'Snow White'	Snow White Bee Balm	19	#1 CONT	SEE NOTE RE 'PMIX'
or	Oligoneuron rigidum	Stiff Goldenrod	19	#1 CONT	SEE NOTE RE 'PMIX'
rh	Rudbeckia hirta	Black-eyed Susan	19	#1 CONT	SEE NOTE RE 'PMIX'
snc	Salvia nemorosa 'Caradonna'	Caradonna Salvia	19	#1 CONT	SEE NOTE RE 'PMIX'
TOTAL:			170		
OTHER GRASSES AND PERENNIALS					
lbr	Ligularia 'Bottle Rocket'	Bottle Rocket Ligularia	93	#1 CONT	
sh	Sporobolus heterolepis	Prairie Dropseed	11	#1 CONT	
TOTAL:			104		

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	1"
DATE 04/12/2021	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
ISSUED FOR BID DOCUMENTS	

DATE	REVISIONS

SMITHGROUP

V&K

VEENSTRA & KIMM, INC.

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 CITY OF BURLINGTON, IOWA

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LANDSCAPE DETAILS

DWG. NO.
 1.6
 PROJECT

TRAFFIC CONTROL PLAN <small>Add Data</small>	
<small>This Data Entry Sheet fills Tab 108-23A effective 08-01-08</small>	
Traffic control for this project shall be in accordance with specific layouts shown in these plans. All work shall be in accordance with Standard Road Plans listed in tabulation 105-4	
The contractor shall provide access to private property and public parking lots/ramps at all times during construction unless otherwise noted on the traffic control sheets. Properties with more than one access point shall have at least one access open and available at all times.	
Contractor shall notify the engineer and the owner(s) one (1) week prior to changes in traffic patterns during construction.	
Contractor shall erect all working signs on permanent 4"x4" wood posts or alternative as approved by the engineer. Portable mounting signs for warning signs may be used for temporary installations or less than three (3) days.	
The lump sum bid item "Traffic Control" shall include all costs for traffic control measures during construction of the project. These include construction fencing and ADA compliant pedestrian access paths and warning signage. All traffic control devices shall be furnished, erected, maintained, and removed by the contractor.	
All road closure barricades shall be installed by the contractor and approved by the engineer prior to closing any road, parking lot, or pedestrian path.	
Proposed sign spacing may be modified, as approved by the engineer, to meet existing field restrictions, or to prevent obstruction of the motorist's or pedestrian's view of permanent signing.	
Construction near railroad lines shall follow all safety and access protocols required by the applicable railroad owner(s).	
Contractor shall coordinate with the City of Burlington to organize work zones and delivery routes in a manner to minimize conflicts with city approved events in the vicinity of construction zones.	
Vehicular and pedestrian access to businesses and residences shall be maintained at all times unless otherwise noted on J sheets.	
All traffic control shall be coordinated with the Burlington Floodwall Project as necessary to ensure proper traffic control and vehicular/pedestrian access is maintained at all times in vicinity to all projects.	

STAGING NOTES <small>Add Data</small>	
<small>This Data Entry Sheet fills Tab 108-26A effective 08-01-08</small>	
DIVISION 1	
TRAFFIC:	
<ol style="list-style-type: none"> Maintain vehicular, pedestrian, and commercial access to Port of Burlington Welcome Center and Market Street Lift Station at all times. Notify the City of Burlington of south boat ramp closure to all incoming and outgoing boat traffic. Close Jefferson Street and Washington Street railroad crossings. Block off parking areas at entryways on north and south ends. Block off all access to existing south boat ramps; maintain access to Market Street Lift Station. 	
CONSTRUCTION SEQUENCE:	
<ol style="list-style-type: none"> Install all underground infrastructure. Complete grading and construct boat ramp. Install all hardscaping and above ground utility work. Permanent landscaping may be started. Install all pavement and pavement markings and complete landscaping. 	

SAFETY CLOSURES			
<small>Refer to Section 2518 of the Standard Specifications</small>			
<small>This Data Entry Sheet fills Tab 108-13A effective 08-01-08</small>			
Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
DIVISION 1	2		
TOTAL:	2		

FOR INFORMATION ONLY

SCALE	AS NOTED
DRAWN	CAP
CHECKED	RW
APPROVED	RW
DATE	4/2/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SMITHGROUP	
DATE	REVISIONS



PROJECT #:	EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT	
CITY OF BURLINGTON, IOWA	
1800 5th Ave • Rock Island, Illinois 61201 309-786-7590 • 309-797-0996(FAX) • 877-241-8010(WATS)	

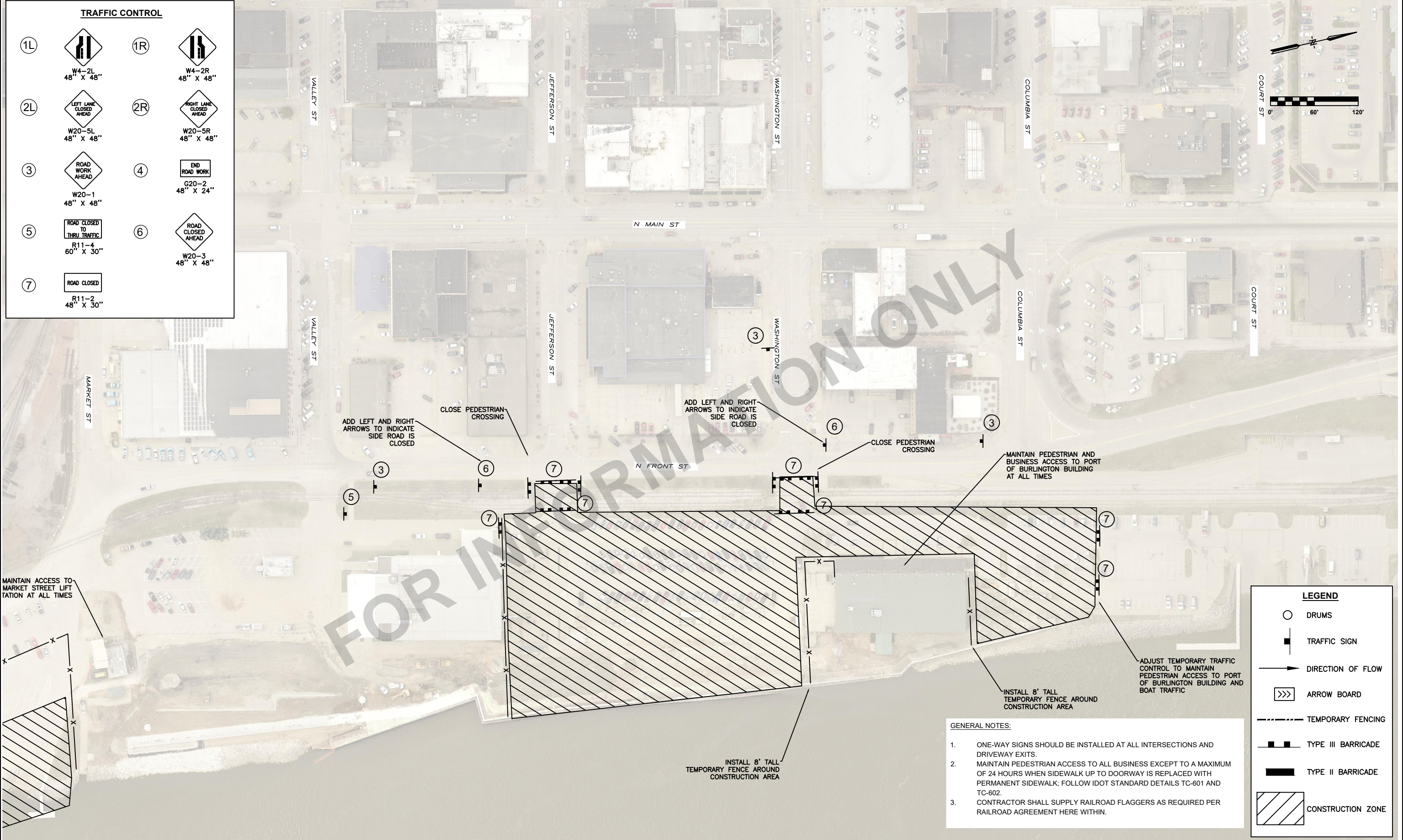
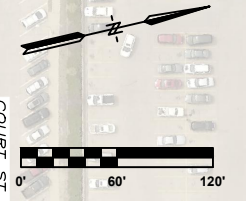
TRAFFIC CONTROL PLAN & STAGING	
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DWG. NO.	J.1
PROJECT	11682.001

PLOTTED: Friday, April 9, 2021 11:22:38 AM

X-REFS: 28025 Burlington Aerial
 FILE PATH: C:\USERS\CPARIZKONE\DRIVE - VEENSTRA & KIMM, INC\BURLINGTON 28024 TIGER RIVERSIDE PARK\DRAWINGS\DESIGN DRAWINGS\28024 TRAFFIC CONTROL_RIVERFRONT

TRAFFIC CONTROL			
①L		①R	
	W4-2L 48" X 48"		W4-2R 48" X 48"
②L		②R	
	LEFT LANE CLOSED AHEAD W20-5L 48" X 48"		RIGHT LANE CLOSED AHEAD W20-5R 48" X 48"
③		④	
	ROAD WORK AHEAD W20-1 48" X 48"		END ROAD WORK G20-2 48" X 24"
⑤		⑥	
	ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"		ROAD CLOSED AHEAD W20-3 48" X 48"
⑦			
	ROAD CLOSED R11-2 48" X 30"		



- GENERAL NOTES:**
- ONE-WAY SIGNS SHOULD BE INSTALLED AT ALL INTERSECTIONS AND DRIVEWAY EXITS.
 - MAINTAIN PEDESTRIAN ACCESS TO ALL BUSINESS EXCEPT TO A MAXIMUM OF 24 HOURS WHEN SIDEWALK UP TO DOORWAY IS REPLACED WITH PERMANENT SIDEWALK; FOLLOW IDOT STANDARD DETAILS TC-601 AND TC-602.
 - CONTRACTOR SHALL SUPPLY RAILROAD FLAGGERS AS REQUIRED PER RAILROAD AGREEMENT HERE WITHIN.

LEGEND	
	DRUMS
	TRAFFIC SIGN
	DIRECTION OF FLOW
	ARROW BOARD
	TEMPORARY FENCING
	TYPE III BARRICADE
	TYPE II BARRICADE
	CONSTRUCTION ZONE

SCALE	AS NOTED	VERIFY SCALE
DRAWN	CAP	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED	RW	0 INCH NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED	RW	
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ISSUED FOR	BID DOCUMENTS	

SMITHGROUP

DATE: _____ REVISIONS: _____

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 CITY OF BURLINGTON, IOWA

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 309-786-7590 • 309-797-0996(FAX) • 877-241-8010(WATS)

TRAFFIC CONTROL

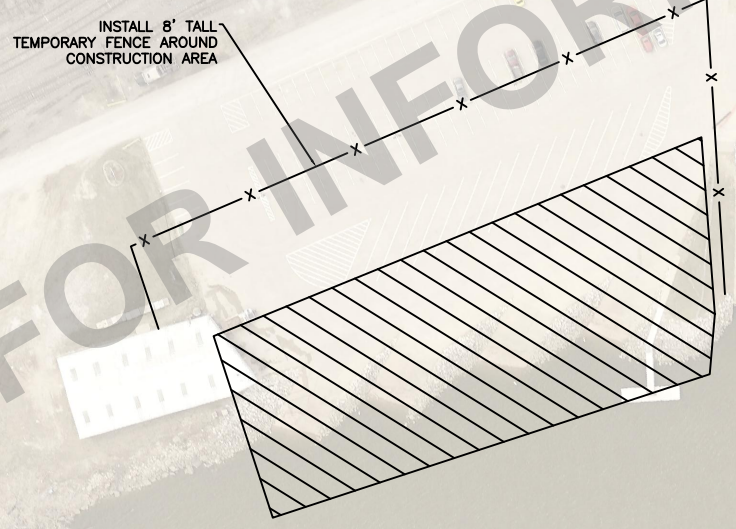
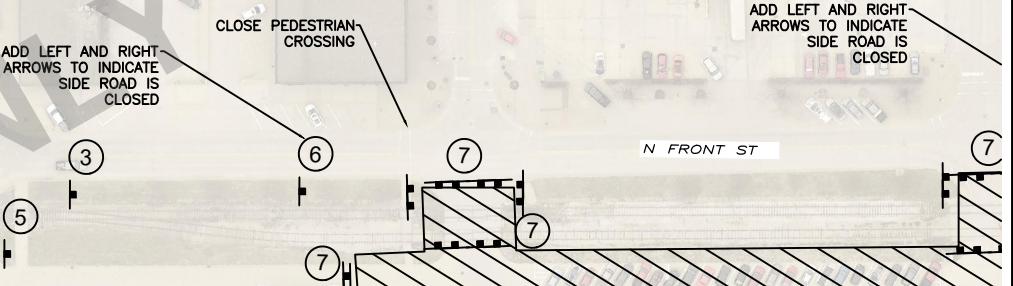
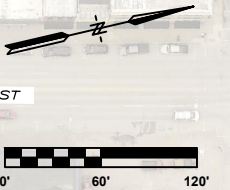
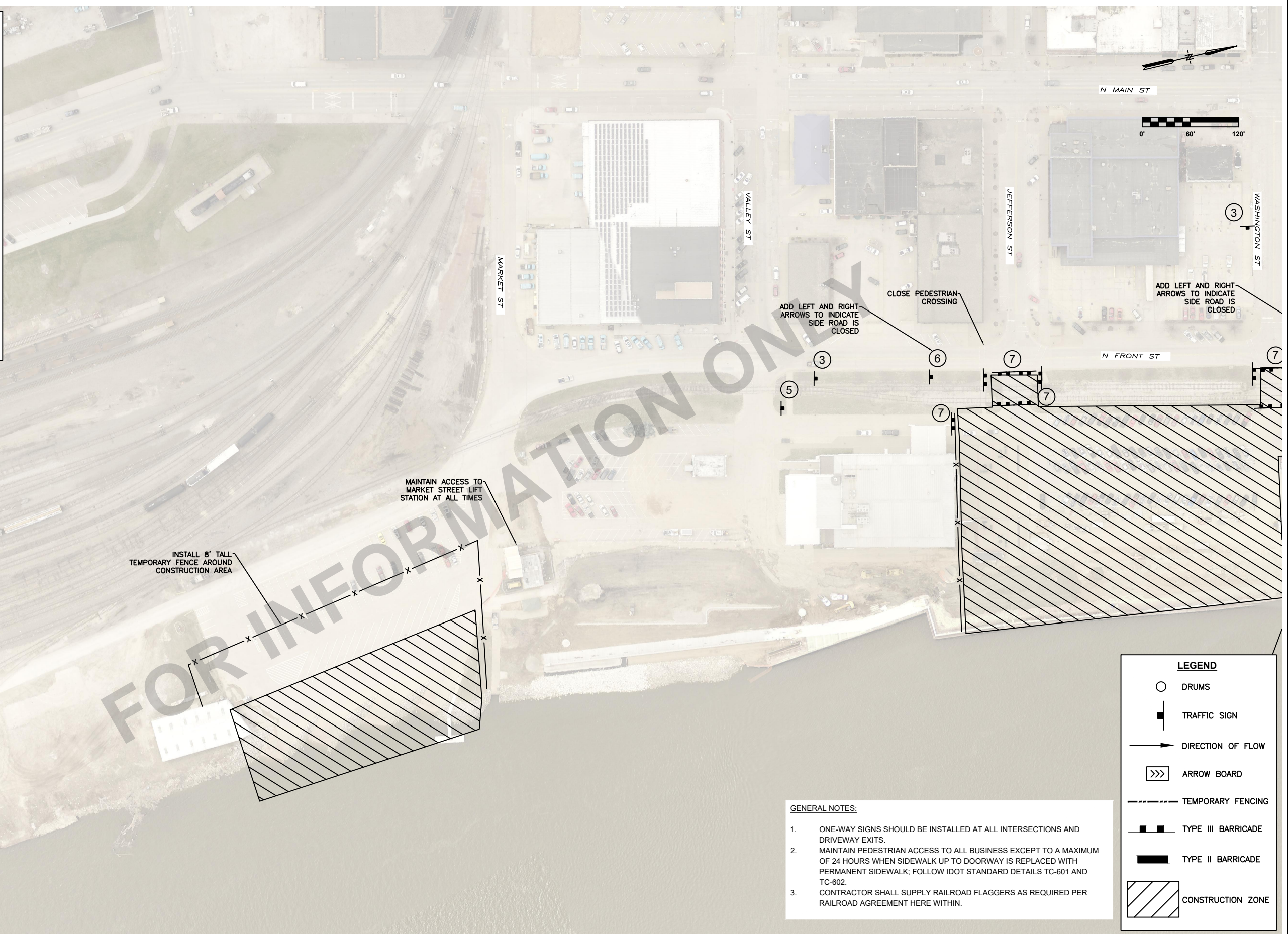
DWG. NO. J.2

PROJECT 11682.001

PLOTTED: Friday, April 9, 2021 11:22:44 AM

X-REFS: 28025 Burlington Aerial
FILE PATH: C:\USERS\CPARIZKONE\DRIVE - VEENSTRA & KIMM, INC\BURLINGTON 28024 TIGER RIVERSIDE PARK\DRAWINGS\DESIGN DRAWINGS\28024 TRAFFIC CONTROL_RIVERFRONT

TRAFFIC CONTROL			
1L		1R	
	W4-2L 48" X 48"		W4-2R 48" X 48"
2L		2R	
	LEFT LANE CLOSED AHEAD W20-5L 48" X 48"		RIGHT LANE CLOSED AHEAD W20-5R 48" X 48"
3		4	
	ROAD WORK AHEAD W20-1 48" X 48"		END ROAD WORK G20-2 48" X 24"
5		6	
	ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"		ROAD CLOSED AHEAD W20-3 48" X 48"
7			
	ROAD CLOSED R11-2 48" X 30"		



MAINTAIN ACCESS TO MARKET STREET LIFT STATION AT ALL TIMES

- GENERAL NOTES:**
- ONE-WAY SIGNS SHOULD BE INSTALLED AT ALL INTERSECTIONS AND DRIVEWAY EXITS.
 - MAINTAIN PEDESTRIAN ACCESS TO ALL BUSINESS EXCEPT TO A MAXIMUM OF 24 HOURS WHEN SIDEWALK UP TO DOORWAY IS REPLACED WITH PERMANENT SIDEWALK; FOLLOW IDOT STANDARD DETAILS TC-601 AND TC-602.
 - CONTRACTOR SHALL SUPPLY RAILROAD FLAGGERS AS REQUIRED PER RAILROAD AGREEMENT HERE WITHIN.

LEGEND	
	DRUMS
	TRAFFIC SIGN
	DIRECTION OF FLOW
	ARROW BOARD
	TEMPORARY FENCING
	TYPE III BARRICADE
	TYPE II BARRICADE
	CONSTRUCTION ZONE

SCALE	AS NOTED	VERIFY SCALE
DRAWN	CAP	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED	RW	0 INCHES ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED	RW	
DATE	4/2/2021	
ISSUED FOR	BID DOCUMENTS	

SMITHGROUP	
DATE	REVISIONS



PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
 309-786-7590 • 309-797-0996(FAO) • 877-241-8010(WATS)

TRAFFIC CONTROL	
DWG. NO.	J.3
PROJECT	11682.001

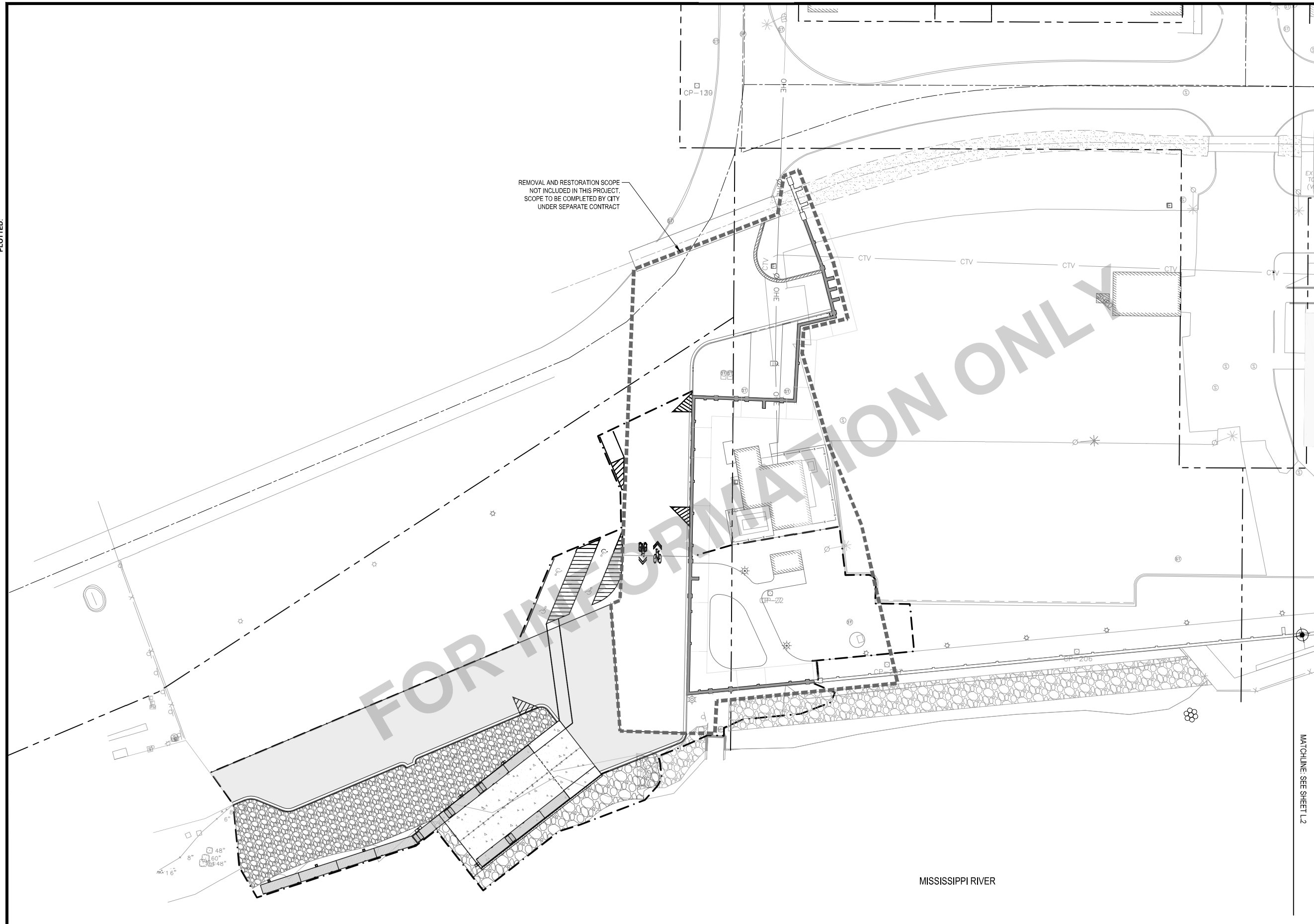
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 FILE PATH:

SHEET NOTES

- SEE SHEET UD.1 FOR SPECIFIC LOCATIONS OF EXPANSION JOINTS AT STRUCTURES.

SITE LAYOUT LEGEND

- EXISTING PARCEL/ ROW LINE
- CONCRETE PAVEMENT LIGHT DUTY (1 UD.1)
- CONCRETE PAVEMENT HEAVY DUTY (2 UD.1)
- ASPHALT PAVEMENT (3 UD.1)
- PAVERS ON CONCRETE BASE (9 UD.1)
- REVTMENT (1 LW.4)
- SHEET PILE TOE STONE CONCRETE PAVEMENT WITH SANDBLASTED FINISH
- TOOLED AND SAWCUT CONTROL JOINT (5 UD.1)
- EXPANSION JOINT (7 UD.1)
- DOWELED EXPANSION JOINT (8 UD.1)
- SAWCUT CONTROL JOINT (4 UD.1)
- TOOLED DECORATIVE JOINT (6 UD.1)



FOR INFORMATION ONLY

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE REVISIONS

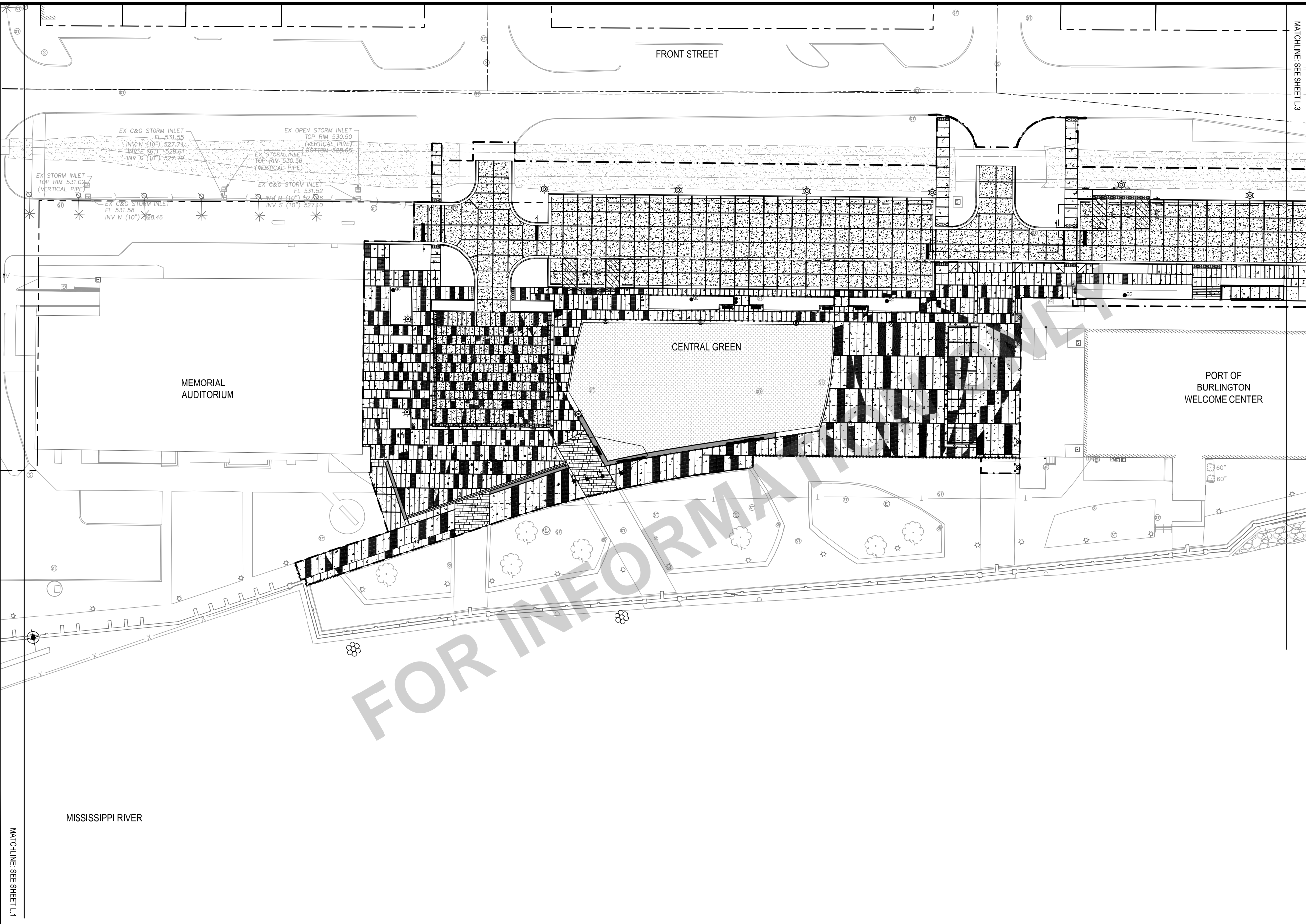
VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)-7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA
 1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

JOINTING PLAN - AREA 1

DWG. NO.	L.1
PROJECT	

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-PRCL-BNDY & 11682-V-SURV-IMAG & 11682-001-C-MATL & 11682-001-VK-LAYO-RVR & 11682-001-C-GRAD & 11682-001-C-SURV-RVR-COMB & 11682-001-C-STREETSCAPE-JEFF & 11682-001-C-LITE & 11682-001-C-PHAS
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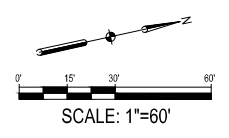


SHEET NOTES

- SEE SHEET UD.1 FOR SPECIFIC LOCATIONS OF EXPANSION JOINTS AT STRUCTURES.

SITE LAYOUT LEGEND

- EXISTING PARCEL/ ROW LINE
- CONCRETE PAVEMENT LIGHT DUTY (UD.1)
- CONCRETE PAVEMENT HEAVY DUTY (UD.1)
- ASPHALT PAVEMENT (UD.1)
- PAVERS ON CONCRETE BASE (UD.1)
- REVETMENT (LW.4)
- CONCRETE PAVEMENT WITH SANDBLASTED FINISH
- TOOLED AND SAWCUT CONTROL JOINT (UD.1)
- EXPANSION JOINT (UD.1)
- DOWELED EXPANSION JOINT (UD.1)
- SAWCUT CONTROL JOINT (UD.1)
- TOOLED DECORATIVE JOINT (UD.1)



SCALE	VERIFY SCALE
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DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

VEENSTRA & KIMM, INC.

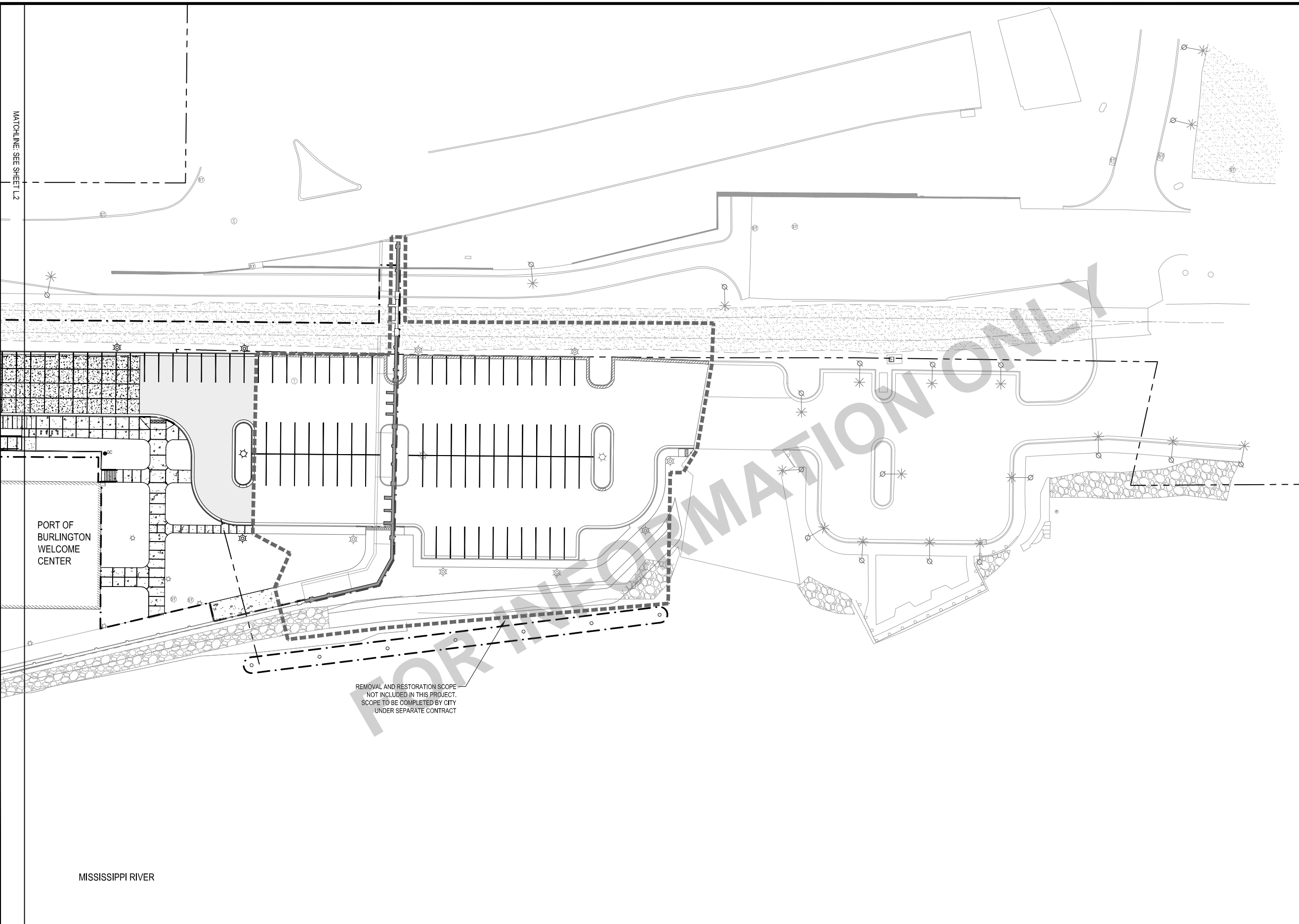
DATE REVISIONS

V&K
 PROJECT #: EDP-0977(653)-7Y-29
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 1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

JOINTING PLAN - AREA 2

DWG. NO.
L.2
PROJECT

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-SURV-PRCL-BNDY & 11682-V-SURV-IMAG & 11682-001-C-MATL & 11682-001-C-GRAD & 11682-001-C-SURV-RIVR-RVR & 11682-001-C-STREETScape-JEFF & 11682-001-C-LITE & 11682-001-C-PHAS
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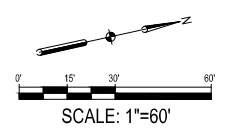


SHEET NOTES

- SEE SHEET UD.1 FOR SPECIFIC LOCATIONS OF EXPANSION JOINTS AT STRUCTURES.

SITE LAYOUT LEGEND

- EXISTING PARCEL ROW LINE
- CONCRETE PAVEMENT LIGHT DUTY (1 UD.1)
- CONCRETE PAVEMENT HEAVY DUTY (2 UD.1)
- ASPHALT PAVEMENT (3 UD.1)
- PAVERS ON CONCRETE BASE (4 UD.1)
- REVETMENT (1 LW.4)
- CONCRETE PAVEMENT WITH SANDBLASTED FINISH
- TOOLED AND SAWCUT CONTROL JOINT (5 UD.1)
- EXPANSION JOINT (7 UD.1)
- DOWELED EXPANSION JOINT (8 UD.1)
- SAWCUT CONTROL JOINT (4 UD.1)
- TOOLED DECORATIVE JOINT (6 UD.1)



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SMITHGROUP
 DATE REVISIONS

VEENSTRA & KIMM, INC.

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JOINTING PLAN - AREA 3

DWG. NO.
L.3
PROJECT

SHEET NOTES

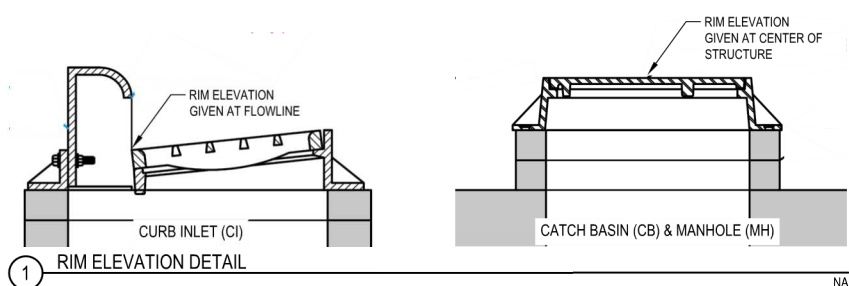
1. SEE SHEETS E.1-E.3 FOR SITE ELECTRICAL PLAN

UTILITY LEGEND

- ⊙ STORM STRUCTURE
- ▣ INLET
- ▽ FLARED END SECTION
- ⊙ SANITARY STRUCTURE
- SANITARY SEWER
- STORM SEWER
- UNDERDRAIN
- ⊕ FIRE HYDRANT ASSEMBLY
- ⊠ GATE VALVE BOX
- WATER MAIN
- ⊙ EXISTING STORM STRUCTURE
- EXISTING STORM SEWER
- ⊙ EXISTING SANITARY STRUCTURE
- EXISTING SANITARY SEWER
- FM EXISTING SANITARY FORCE MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING CABLE TV UNDERGROUND
- EXISTING GAS MAIN
- EXISTING WATER MAIN

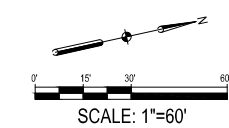
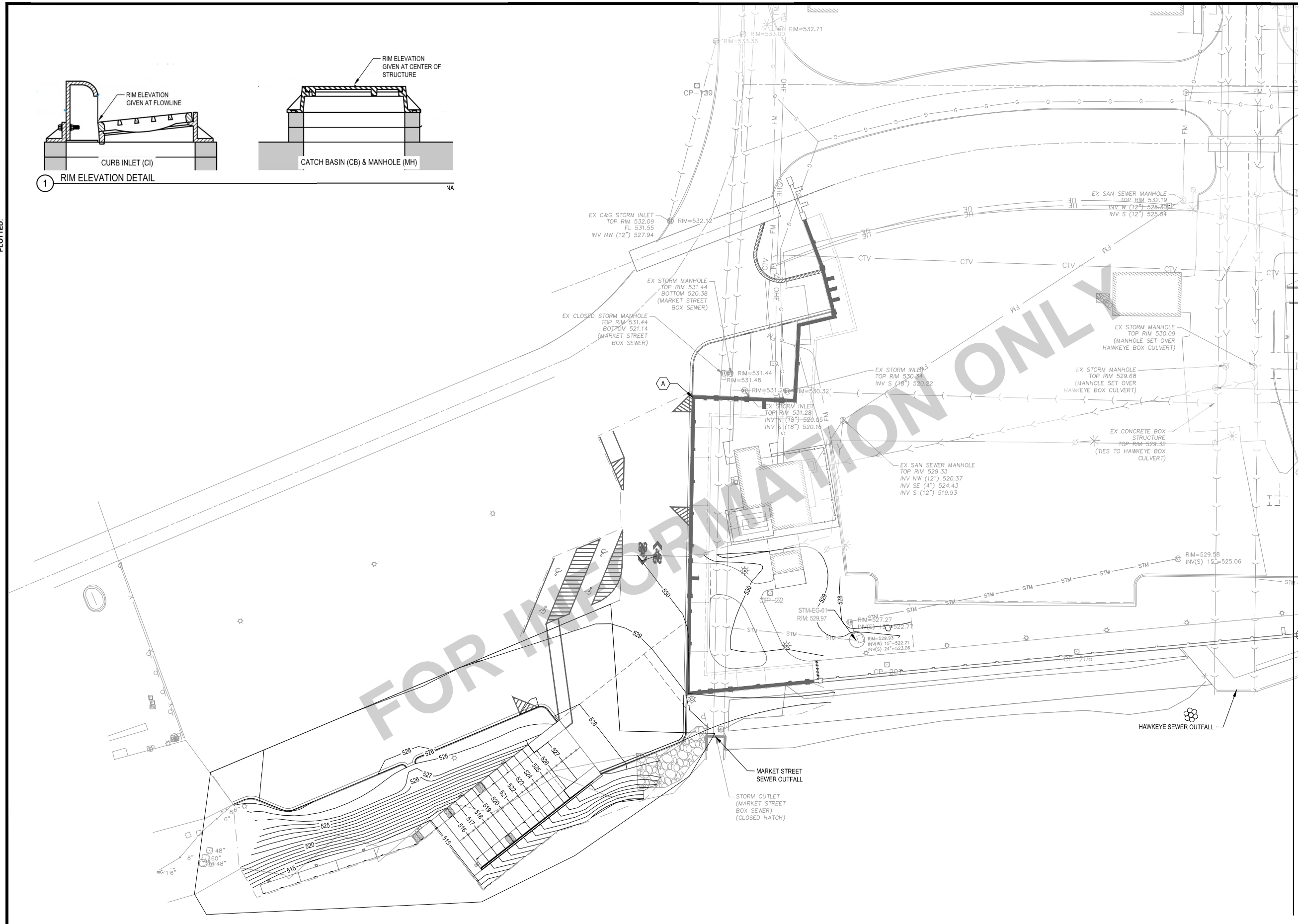
KEYED NOTES

- A FLOODWALL BY OTHERS, NOT INCLUDED IN TIGER GRANT PROJECT.



PLOTTED:

X-REFS: 11682-001-TTBK & 11682-001-VK-LAYO-RVR & 11682-001-C-GRAD & 11682-001-C-UTIL & 11682-001-C-SURV-RVR-COMB & 11682-001-C-LAYO & 11682-001-C-PHAS
FILE PATH:



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DATE	REVISIONS

SMITHGROUP

VEENSTRA & KIMM, INC.

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UTILITY LAYOUT - AREA 1

DWG. NO.
MU.1
PROJECT

SHEET NOTES

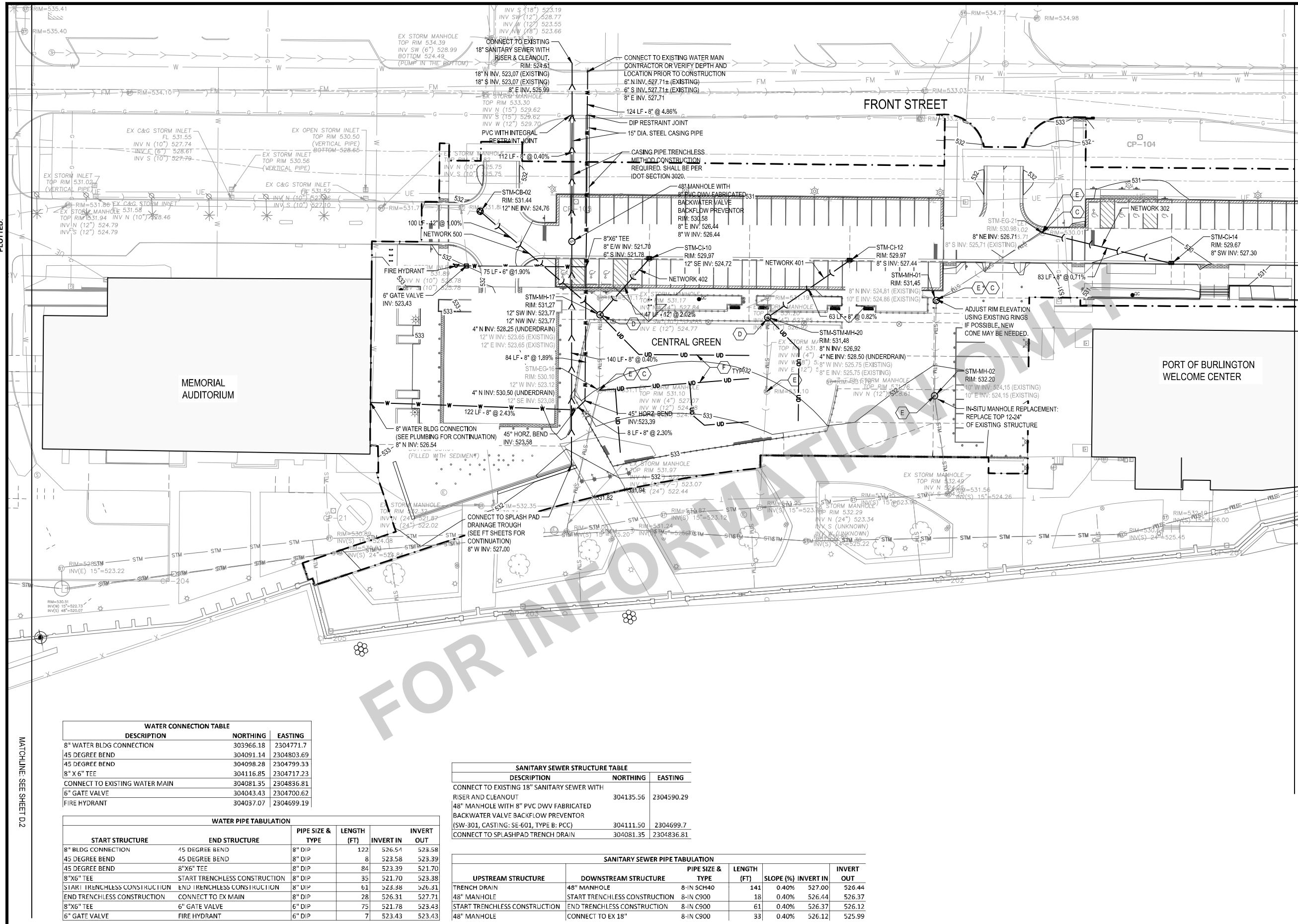
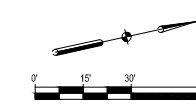
1. SEE SHEETS E.1-E.3 FOR SITE ELECTRICAL PLAN

UTILITY LEGEND

- STORM STRUCTURE
- INLET
- FLARED END SECTION
- SANITARY STRUCTURE
- SANITARY SEWER
- STORM SEWER
- UNDERDRAIN
- FIRE HYDRANT ASSEMBLY
- GATE VALVE BOX
- WATER MAIN
- EXISTING STORM STRUCTURE
- EXISTING STORM SEWER
- EXISTING SANITARY STRUCTURE
- EXISTING SANITARY SEWER
- EXISTING SANITARY FORCE MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING CABLE TV UNDERGROUND
- EXISTING GAS MAIN
- EXISTING WATER MAIN

KEYED NOTES

- FLOODWALL BY OTHERS, NOT INCLUDED IN TIGER GRANT PROJECT.
- CORE INTO EXISTING STRUCTURE AND PROVIDE WATER TIGHT CONNECTION
- CONNECT TO EXISTING STORM STRUCTURE
- CONNECT EAST EXISTING PIPE TO NEW STRUCTURE. PLUG WEST EXISTING PIPE.
- ADJUST MANHOLE
- SAND BASED TURF UNDERDRAIN, SEE DETAIL 4 / SHEET I.6



WATER CONNECTION TABLE		
DESCRIPTION	NORTHING	EASTING
8" WATER BLDG CONNECTION	303966.18	2304771.7
45 DEGREE BEND	304091.14	2304803.69
45 DEGREE BEND	304098.28	2304799.33
8" X 6" TEE	304116.85	2304717.23
CONNECT TO EXISTING WATER MAIN	304081.35	2304836.81
6" GATE VALVE	304043.43	2304700.62
FIRE HYDRANT	304037.07	2304699.19

WATER PIPE TABULATION					
START STRUCTURE	END STRUCTURE	PIPE SIZE & TYPE	LENGTH (FT)	INVERT IN	INVERT OUT
8" BLDG CONNECTION	45 DEGREE BEND	8" DIP	122	526.54	523.58
45 DEGREE BEND	45 DEGREE BEND	8" DIP	8	523.58	523.39
45 DEGREE BEND	8"X6" TEE	8" DIP	84	523.39	521.70
8"X6" TEE	START TRENCHLESS CONSTRUCTION	8" DIP	35	521.70	523.38
START TRENCHLESS CONSTRUCTION	END TRENCHLESS CONSTRUCTION	8" DIP	61	523.38	526.31
END TRENCHLESS CONSTRUCTION	CONNECT TO EX MAIN	8" DIP	28	526.31	527.71
8"X6" TEE	6" GATE VALVE	6" DIP	75	521.78	523.43
6" GATE VALVE	FIRE HYDRANT	6" DIP	7	523.43	523.43

SANITARY SEWER STRUCTURE TABLE		
DESCRIPTION	NORTHING	EASTING
CONNECT TO EXISTING 18" SANITARY SEWER WITH RISER AND CLEANOUT	304135.56	2304590.29
48" MANHOLE WITH 8" PVC DWV FABRICATED BACKWATER VALVE BACKFLOW PREVENTOR (SW-301, CASTING: SE-601, TYPE B: PCC)	304111.50	2304699.7
CONNECT TO SPLASHPAD TRENCH DRAIN	304081.35	2304836.81

SANITARY SEWER PIPE TABULATION						
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE & TYPE	LENGTH (FT)	SLOPE (%)	INVERT IN	INVERT OUT
TRENCH DRAIN	48" MANHOLE	8-IN SCH40	141	0.40%	527.00	526.44
48" MANHOLE	START TRENCHLESS CONSTRUCTION	8-IN C900	18	0.40%	526.44	526.37
START TRENCHLESS CONSTRUCTION	END TRENCHLESS CONSTRUCTION	8-IN C900	61	0.40%	526.37	526.12
48" MANHOLE	CONNECT TO EX 18"	8-IN C900	33	0.40%	526.12	525.99

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED	
DATE 04/12/2021	
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SMITHGROUP

DATE: _____ REVISIONS: _____

V&K

VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

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UTILITY LAYOUT - AREA 2

DWG. NO. MU.2

PROJECT

X-REFS: 11682-001-TTBK & 11682-001-VK-LAYO-RVR & 11682-001-C-GRAD & 11682-001-C-SURV-RVR-COMB & 11682-001-C-LAYO & 11682-001-C-PHAS

PLOTTED:

MATCHLINE: SEE SHEET D.2

MATCHLINE: SEE SHEET MU.3

SHEET NOTES

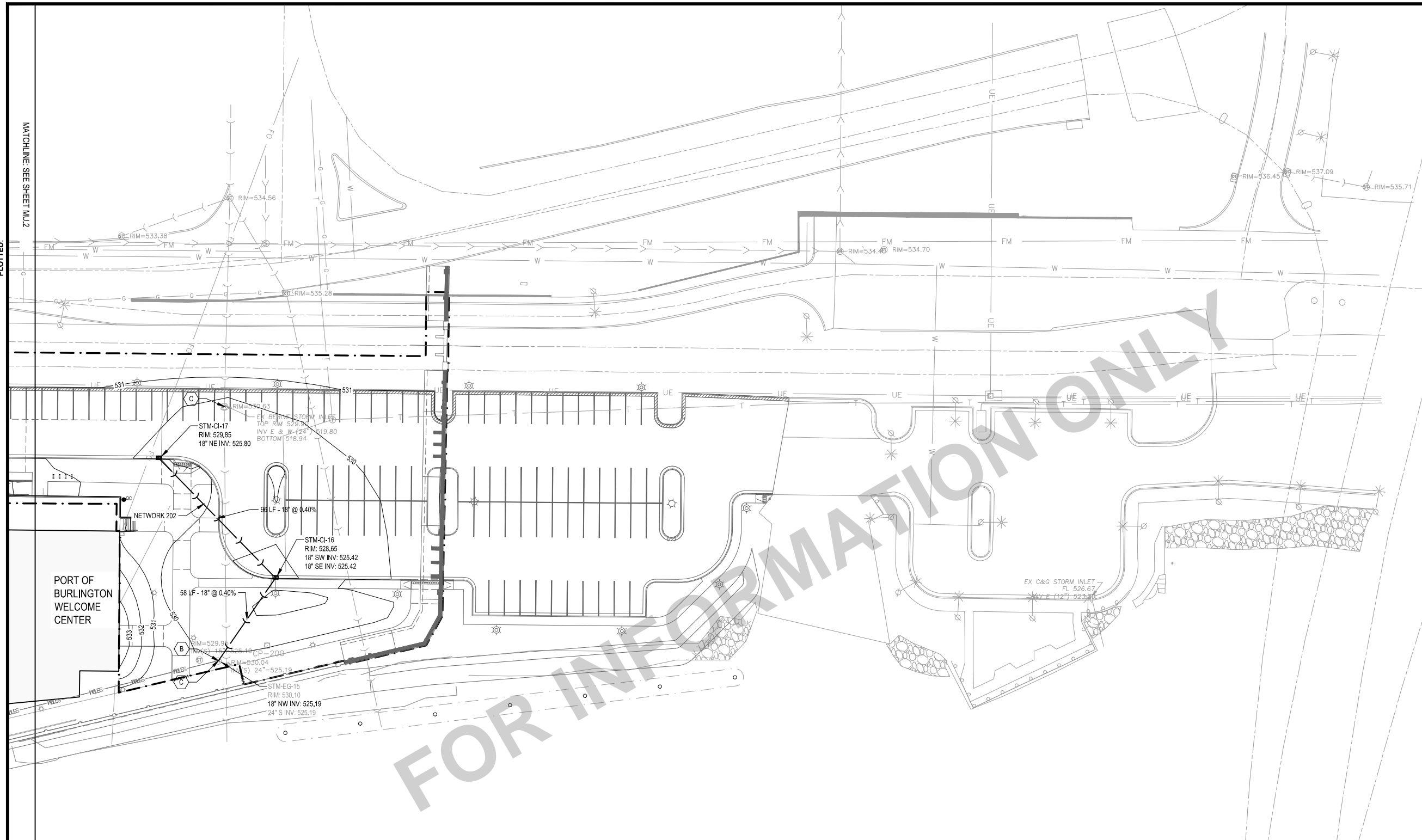
1. SEE SHEETS E.1-E.3 FOR SITE ELECTRICAL PLAN

UTILITY LEGEND

- STORM STRUCTURE
- INLET
- FLARED END SECTION
- SANITARY STRUCTURE
- SANITARY SEWER
- STORM SEWER
- UNDERDRAIN
- FIRE HYDRANT ASSEMBLY
- GATE VALVE BOX
- WATER MAIN
- EXISTING STORM STRUCTURE
- EXISTING STORM SEWER
- EXISTING SANITARY STRUCTURE
- EXISTING SANITARY SEWER
- EXISTING SANITARY FORCE MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING CABLE TV UNDERGROUND
- EXISTING GAS MAIN
- EXISTING WATER MAIN

KEYED NOTES

- FLOODWALL BY OTHERS, NOT INCLUDED IN TIGER GRANT PROJECT.
- CONNECT STORM SEWER TO EXISTING STRUCTURE
- ADJUST MANHOLE, REPLACE GRATE WITH SOLID LID



MATCHLINE: SEE SHEET MU.2

PLOTTED:

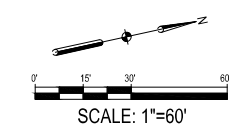
X-REFS: 11682-001-TTBK & 11682-001-VK-LAYO-RVR & 11682-001-C-GRAD & 11682-001-C-SURV-RVR-COMB & 11682-001-C-LAYO & 11682-001-C-PHAS
FILE PATH:

STORM PIPE TABULATION

NETWORK #	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE (IN)	LENGTH (FT)	SLOPE (%)	INVERT IN	INVERT OUT	PROFILE SHEET #
202	STM-CI-17	STM-CI-16	18	96	0.40	525.8	525.42	MU.4
202	STM-CI-16	STM-EG-15	18	58	0.40	525.42	525.19	MU.4
302	STM-CI-14	STM-EG-21	8	83	0.71	527.3	526.71	MU.4
401	STM-CI-12	STM-MH-20	8	63	0.82	527.44	526.92	MU.5
402	STM-CI-10	STM-MH-17	12	47	2.02	524.72	523.77	MU.5
500	STM-CB-02	STM-MH-17	12	100	1.00		523.77	MU.4

STORM SEWER STRUCTURE TABLE

STRUCTURE	SIZE	CASTING	NORTHING	EASTING
STM-CB-02	SW-502, 48" DIA.	SW-604, TYPE 6	304059.20	2304668.82
STM-CI-10	SW-501	SW-603, TYPE Q	304156.76	2304720.67
STM-CI-12	SW-501	SW-603, TYPE Q	304279.62	2304748.65
STM-CI-14	SW-501	SW-603, TYPE R	304476.88	2304793.57
STM-CI-16	SW-501	SW-603, TYPE R	304672.39	2304907.84
STM-CI-17	SW-501	SW-603, TYPE R	304621.67	2304826.55
STM-EG-01	EXISTING	N/A	303457.17	2304815.54
STM-EG-15	EXISTING	N/A	304630.27	2304947.21
STM-EG-21	EXISTING	N/A	304401.7	2304757.34
STM-MH-01	EXISTING	SW-602, TYPE F: PCC	304327.47	2304784.8
STM-MH-02	EXISTING	SW-602, TYPE F: PCC	304313.62	2304843.16
STM-MH-17	SW-401, 48" DIA.	SW-602, TYPE F: PCC	304118.92	2304748.51
STM-MH-20	SW-401, 48" DIA.	SW-602, TYPE F: PCC	304221.59	2304772.58



SCALE	VERIFY SCALE
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DATE 04/12/2021	
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SMITHGROUP

DATE REVISIONS

V&K

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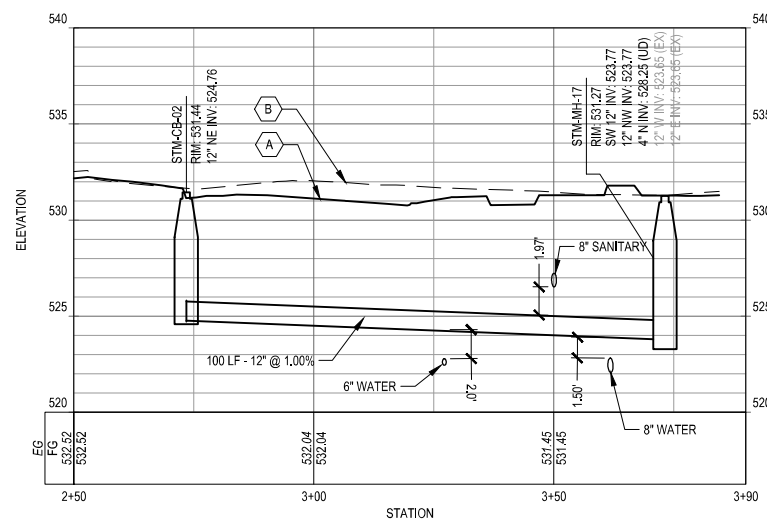
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UTILITY LAYOUT - AREA 3

DWG. NO.
MU.3
PROJECT

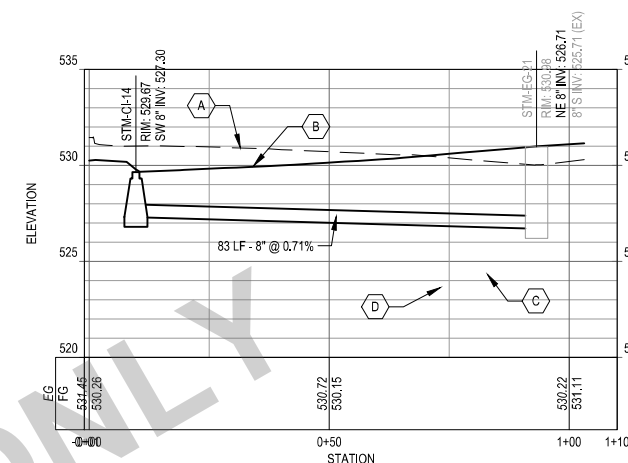
KEYED NOTES

- (A) PROPOSED GRADE OVER PROPOSED STORM SEWER
- (B) EXISTING GRADE OVER PROPOSED STORM SEWER
- (C) APPROXIMATE EXISTING GAS LINE DEPTH AND LOCATION. CONTRACTOR TO LOCATE AND VERIFY PRIOR TO INSTALL STORM SEWER.
- (D) APPROXIMATE EXISTING WATER LINE DEPTH AND LOCATION. CONTRACTOR TO LOCATE AND VERIFY PRIOR TO INSTALL STORM SEWER.



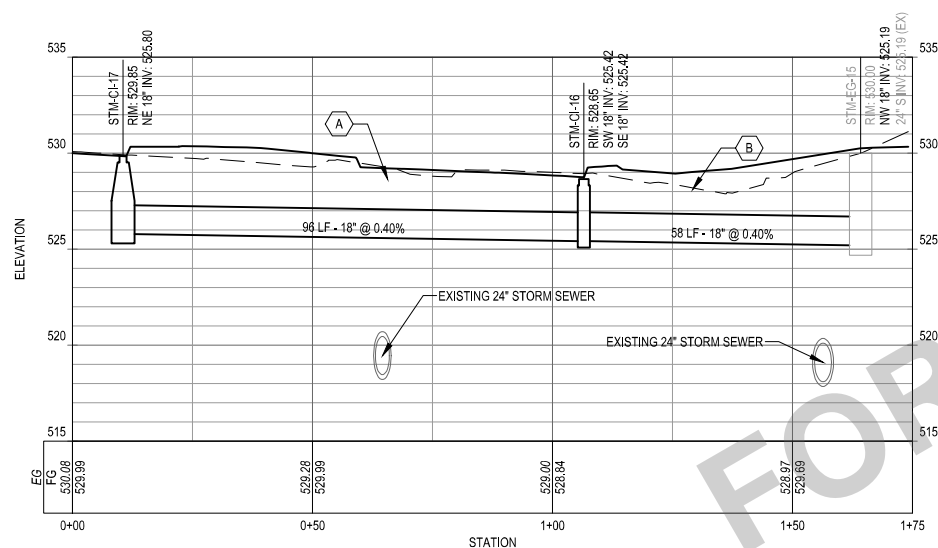
1 STORM SEWER PROFILE - NETWORK 500

HORIZ SCALE: 1"=40'
VERT SCALE: 1"=10'



2 STORM SEWER PROFILE - NETWORK 302

HORIZ SCALE: 1"=40'
VERT SCALE: 1"=10'



3 STORM SEWER PROFILE - NETWORK 202

HORIZ SCALE: 1"=40'
VERT SCALE: 1"=10'

X-REFS: 11682-001-TTBK & 11682-001-VK-LAYO-RVR & 11682-001-C-GRAD & 11682-001-C-UTIL & 11682-001-C-SURV-RVR-COMB & 11682-001-C-LAYO & 11682-001-C-PHAS
FILE PATH:

SCALE	VERIFIED
DRAWN SKH	DATE
CHECKED RW	REVISIONS
APPROVED RW	
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

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VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)-7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

STORM SEWER PROFILES

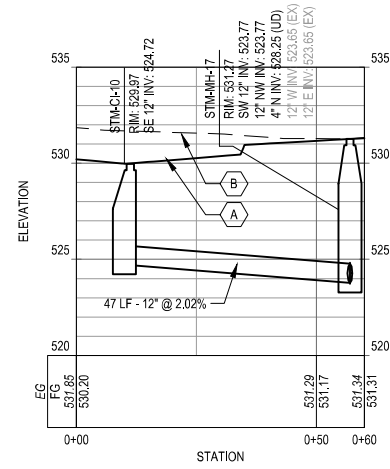
DWG. NO.

MU.4

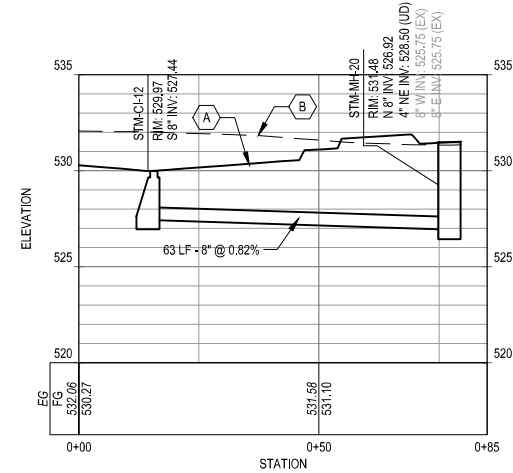
PROJECT

KEYED NOTES

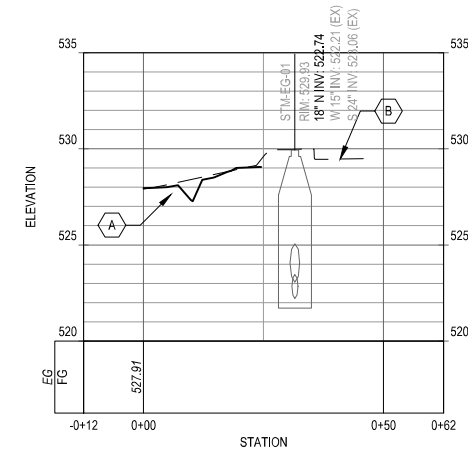
- (A) PROPOSED GRADE OVER PROPOSED STORM SEWER
- (B) EXISTING GRADE OVER PROPOSED STORM SEWER



4 STORM SEWER PROFILE - NETWORK 402
 HORIZ SCALE: 1"=40'
 VERT SCALE: 1"=10'



5 STORM SEWER PROFILE - NETWORK 401
 HORIZ SCALE: 1"=40'
 VERT SCALE: 1"=10'



5 STORM SEWER PROFILE - NETWORK 602
 HORIZ SCALE: 1"=40'
 VERT SCALE: 1"=10'

FOR INFORMATION ONLY

X-REFS: 11682-001-TTBK & 11682-001-VK-LAYO-RIVR & 11682-001-C-GRAD & 11682-001-C-UTIL & 11682-001-C-SURV-RIVR-COMB & 11682-001-C-LAYO & 11682-001-C-PHAS
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APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
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DATE	REVISIONS

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STORM SEWER PROFILES

DWG. NO.
MU.5
PROJECT

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-SURV-PRCL-BNDY & 11682-V-SURV-IMAG & 11682-001-C-MATL & 11682-001-VK-LAYO-RVR & 11682-001-C-GRAD & 11682-001-C-SURV-RVR-COMB & 11682-000-C-STREETScape-JEFF & 11682-001-C-LITE & 11682-001-C-LITE & 11682-000-VK-LAYO-JEFF & 11682-001-C-UTIL & 11682-001-C-UTIL & 11682-001-C-UTIL
FILE PATH: PLOTTED:

SIGNAGE

RIVERFRONT

TYPE	QTY	POST INSTALLATION	SF	POST HEIGHT	Northing	Easting
STOP	1	BREAK-AWAY SOIL	4.5	11.5	304023.77	2304685.45
STOP	1	BREAK-AWAY SOIL	4.5	11.5	304097.86	2304681.75
ADA	1	BREAK-AWAY CONCRETE	4	10	304099.87	2304727.33
ADA	1	BREAK-AWAY CONCRETE	4	10	304117.03	2304733.29
ADA	1	BREAK-AWAY CONCRETE	4	10	304125.75	2304735.28
ADA	1	BREAK-AWAY CONCRETE	4	10	304143.69	2304737.31
STOP	1	BREAK-AWAY CONCRETE	4.5	11.5	304350.59	2304768.04
STOP	1	BREAK-AWAY SOIL	4.5	11.5	304416.58	2304754.33
ADA	1	BREAK-AWAY SOIL	4	10	304439.10	2304736.53
ADA	1	BREAK-AWAY SOIL	4	10	304456.66	2304740.53
ADA	1	BREAK-AWAY SOIL	4	10	304465.43	2304744.52
ADA	1	BREAK-AWAY SOIL	4	10	304481.68	2304752.23

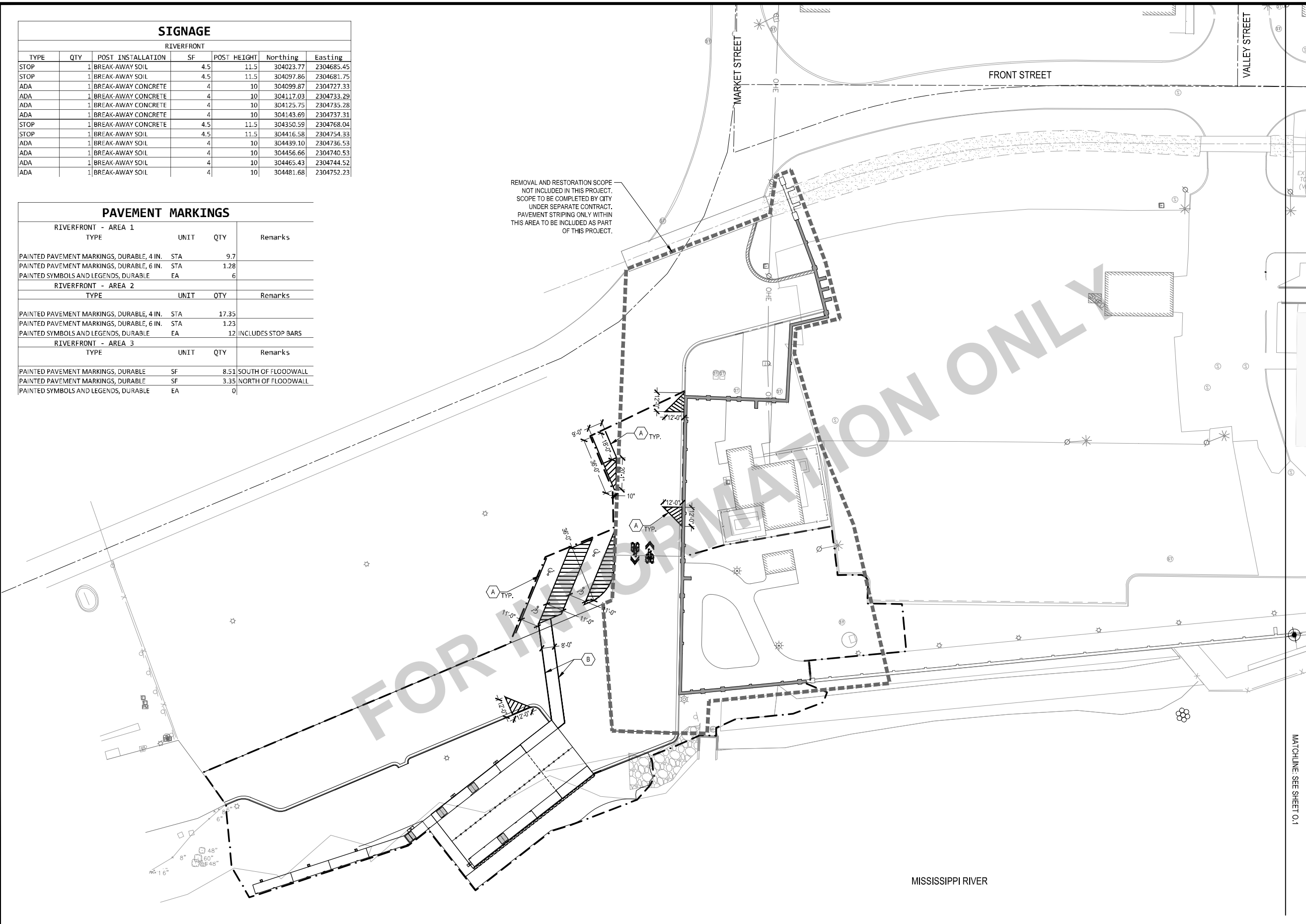
PAVEMENT MARKINGS

RIVERFRONT - AREA 1		UNIT	QTY	Remarks
PAINTED PAVEMENT MARKINGS, DURABLE, 4 IN.	STA		9.7	
PAINTED PAVEMENT MARKINGS, DURABLE, 6 IN.	STA		1.28	
PAINTED SYMBOLS AND LEGENDS, DURABLE	EA		6	

RIVERFRONT - AREA 2		UNIT	QTY	Remarks
PAINTED PAVEMENT MARKINGS, DURABLE, 4 IN.	STA		17.35	
PAINTED PAVEMENT MARKINGS, DURABLE, 6 IN.	STA		1.23	
PAINTED SYMBOLS AND LEGENDS, DURABLE	EA		12	INCLUDES STOP BARS

RIVERFRONT - AREA 3		UNIT	QTY	Remarks
PAINTED PAVEMENT MARKINGS, DURABLE	SF		8.51	SOUTH OF FLOODWALL
PAINTED PAVEMENT MARKINGS, DURABLE	SF		3.35	NORTH OF FLOODWALL
PAINTED SYMBOLS AND LEGENDS, DURABLE	EA		0	

REMOVAL AND RESTORATION SCOPE NOT INCLUDED IN THIS PROJECT. SCOPE TO BE COMPLETED BY CITY UNDER SEPARATE CONTRACT. PAVEMENT STRIPING ONLY WITHIN THIS AREA TO BE INCLUDED AS PART OF THIS PROJECT.



SHEET NOTES

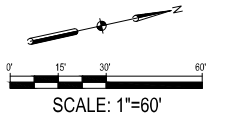
- WHERE LOCATED ALONG CURBS, PARKING STALL DIMENSIONS ARE FROM FACE OF CURB TO END OF STALL.
- ALL PAVEMENT MARKINGS ARE DIMENSIONED TO CENTER OF STRIPE

PAVEMENT MARKING LEGEND

- NO PARKING ZONE
- CROSSWALK
- 2' STOP BAR PAVEMENT MARKING
- HANDICAP SPACE
- SHARROW
- DETECTABLE WARNING STRIP
- SINGLE POST SIGN

KEYED NOTES

- A 4" WHITE STRIPE
- B 6" WHITE STRIPE



SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
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SMITHGROUP

DATE REVISIONS



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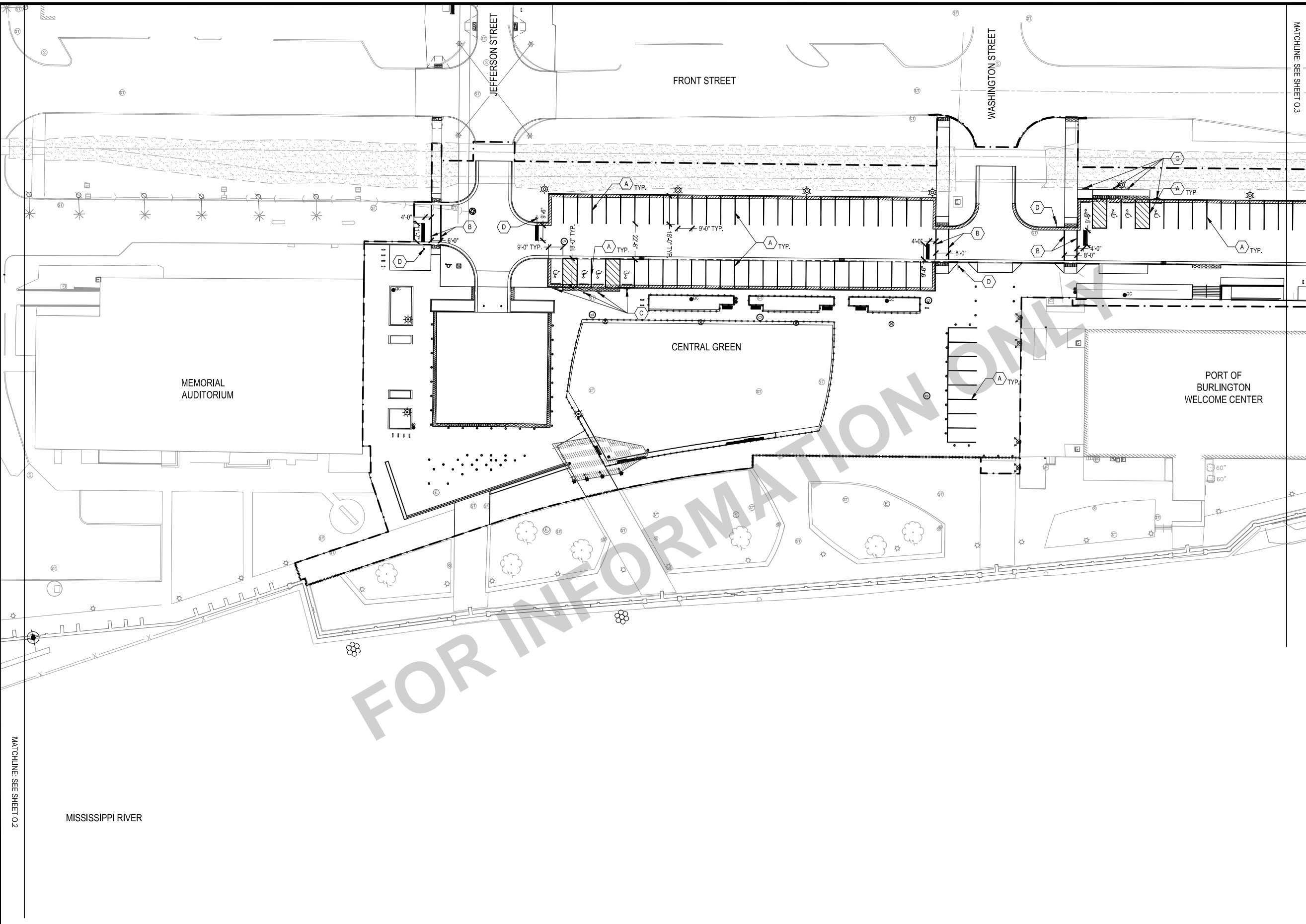
PAVEMENT MARKING AND SIGNAGE PLAN - AREA 1

DWG. NO.

O.1

PROJECT

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-PRCL-BNDY & 11682-V-SURV-IMAG & 11682-001-C-MATL & 11682-001-VK-LAYO-RVR & 11682-001-C-GRAD & 11682-001-C-SURV-RVR-COMB & 11682-001-C-STREETScape-JEFF & 11682-001-C-LITE & 11682-000-VK-LAYO-JEFF & 11682-001-C-UTIL & 11682-001-C-UTIL & 11682-001-C-UTIL
 FILE PATH: PLOTTED:



SHEET NOTES

1. WHERE LOCATED ALONG CURBS, PARKING STALL DIMENSIONS ARE FROM FACE OF CURB TO END OF STALL.
2. ALL PAVEMENT MARKINGS ARE DIMENSIONED TO CENTER OF STRIPE

PAVEMENT MARKING LEGEND

	NO PARKING ZONE
	CROSSWALK
	2' STOP BAR PAVEMENT MARKING
	HANDICAP SPACE
	SHARROW
	DETECTABLE WARNING STRIP
	SINGLE POST SIGN

KEYED NOTES

A	4" WHITE STRIPE
B	6" WHITE STRIPE
C	IOWA HANDICAP PARKING SIGN - R7-8IA
D	STOP SIGN

SCALE: 1"=60'

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 1" 1"
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

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VEENSTRA & KIMM, INC.

DATE	REVISIONS
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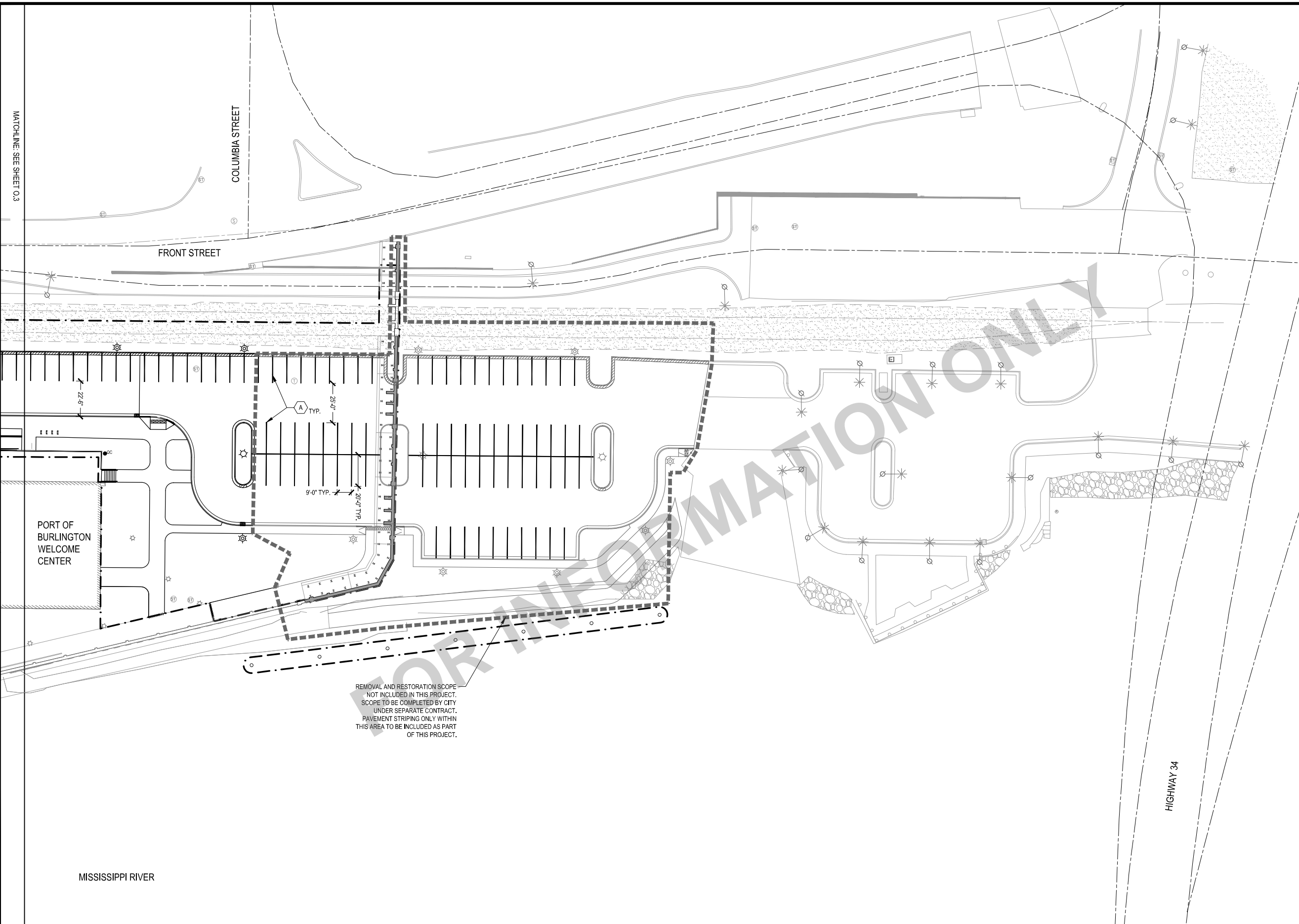
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PAVEMENT MARKING AND SIGNAGE PLAN - AREA 2

DWG. NO.
0.2
PROJECT

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-V-SURV-PRCL-BNDY & 11682-V-SURV-IMAG & 11682-001-C-MATL & 11682-001-C-GRAD & 11682-001-C-SURV-RIVR & 11682-000-C-STREETScape-JEFF & 11682-001-C-LITE & 11682-000-VK-LAYO-JEFF & 11682-001-C-UTIL & 11682-001-C-UTIL & 11682-001-C-UTIL
 FILE PATH:



REMOVAL AND RESTORATION SCOPE
 NOT INCLUDED IN THIS PROJECT.
 SCOPE TO BE COMPLETED BY CITY
 UNDER SEPARATE CONTRACT.
 PAVEMENT STRIPING ONLY WITHIN
 THIS AREA TO BE INCLUDED AS PART
 OF THIS PROJECT.

SHEET NOTES

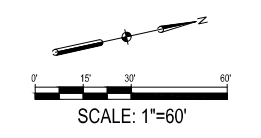
- WHERE LOCATED ALONG CURBS, PARKING STALL DIMENSIONS ARE FROM FACE OF CURB TO END OF STALL.
- ALL PAVEMENT MARKINGS ARE DIMENSIONED TO CENTER OF STRIPE

PAVEMENT MARKING LEGEND

- NO PARKING ZONE
- CROSSWALK
- 2' STOP BAR PAVEMENT MARKING
- HANDICAP SPACE
- SHARROW
- DETECTABLE WARNING STRIP
- SINGLE POST SIGN

KEYED NOTES

- 4" WHITE STRIPE



SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
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SMITHGROUP	VEENSTRA & KIMM, INC.
DATE	REVISIONS

SMITHGROUP

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PAVEMENT MARKING AND SIGNAGE PLAN -
AREA 3

DWG. NO.	0.3
PROJECT	

POLLUTION PREVENTION PLAN
This Data Entry Sheet files Tab 110-12L effective 10-20-20
I. ROLES AND RESPONSIBILITIES

- A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.
- B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.
- C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.
- D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
7. Is familiar with the Project PPP and storm water site map.
8. On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
10. Is signature authority on Notice of Discontinuation.
11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
12. Makes information to determine permit compliance available to the DNR upon their request.
- E. Inspector:
1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

- A. This Pollution Prevention Plan (PPP) is for the construction of a riverfront landing. The project includes the replacement of some existing parking lots with a new community green and plaza and the renovation of the remaining existing parking lots. Additionally, the project includes the addition of a new transient dock and improvements to the existing recreational boat ramps.
- B. This PPP covers approximately 10.5 acres with an estimated 10.5 acres being disturbed. The portion of the PPP covered by this contract has 10.5 acres disturbed.
- C. The PPP is located in an area of 2 soil associations Otley-Ladoga (B-B) and Colo-Chequest-Titus (B/D-C-B/D). The estimated weighted average runoff coefficient number for this PPP after completion will be 0.65.
- D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C sheets.
- E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.
- F. Runoff from this work will flow into catch basins or surface drain into the Mississippi River as shown in the MU sheets.

III. CONTROLS

- A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
- B. Preserve vegetation in areas not needed for construction.
- C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.
1. EROSION AND SEDIMENT CONTROLS
- a. Stabilization Practices
- Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
 - Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
 - Permanently ceased on any portion of the site, or
 - Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
 - Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
 - Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C or R sheets.
 - Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
 - Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.
- b. Structural Practices
- Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff

and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.

- Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B or R sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or R sheets.

c. Storm Water Management

Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

- Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.
- Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
 - Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
 - Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
 - Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
 - Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
 - Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
 - Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on forestlopes or removed from the project.
 - Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
 - Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
 - Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.
3. APPROVED STATE OR LOCAL PLANS
- During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

- A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:
- Date of the inspection.
 - Summary of the scope of the inspection.
 - Name and qualifications of the personnel making the inspection.
 - Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
 - Major observations related to the implementation of the PPP.
 - Identification of corrective actions required to maintain or modify erosion and sediment control measures.
- B. Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silt, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

- Base PPP - Initial Pollution Prevention Plan.
- Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
- Fieldbook Entries - This contains the inspector's daily diary and bid item postings.
- Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
- Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Printed or Typed Name

Signature

PLOTTED:

X-REFS: SG-TBLK-22x34
FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING. 1" = 0'
CHECKED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED RW	
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

DATE	REVISIONS
04/12/2021	

SMITHGROUP

V&K

VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

POLLUTION PREVENTION PLAN

DWG. NO.
RC.1
PROJECT

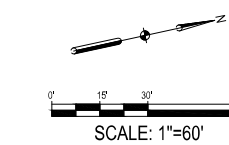
SHEET NOTES

1. PROTECT ALL UTILITY STRUCTURES UNLESS OTHERWISE NOTED. SEE UTILITY PLANS FOR SURFACE ADJUSTMENTS, WITHIN PAVEMENT REMOVAL LIMITS.
2. REMOVE ALL LIGHT POLES WITHIN PAVEMENT REMOVAL LIMITS UNLESS OTHERWISE NOTED. PROTECT POLES OUTSIDE OF PAVEMENT REMOVAL LIMITS UNLESS MARKED FOR REMOVAL OR RELOCATION.

LEGEND

- PROJECT LIMITS
- [Hatched Box] FULL DEPTH CONCRETE PAVEMENT REMOVAL
- [X] TREE REMOVAL
- [Dashed Line] TREE PROTECTION FENCE
- [Circle with X] PROTECT
- [Circle with X] REMOVE LIGHT POLE AND FOUNDATION
- [Circle with X] REMOVE EXISTING STORM STRUCTURE
- [Triangle] SALVAGE
- [Triangle] RELOCATE
- [X-X-X-X] UTILITY REMOVAL
- [Cap Symbol] CAP UTILITY
- [X] CONSTRUCTION FENCE
- [Entrance Symbol] CONSTRUCTION ENTRANCE
- [Hatched Line] CURB REMOVAL
- [Wavy Line] HANDRAIL & GUARDRAIL REMOVAL
- [Dotted Area] CLEAR AND GRUB
- [Cross-hatched Area] FULL DEPTH ASPHALT PAVEMENT REMOVAL

KEYED NOTES



REMOVAL OF LIGHT POLES AND CONCRETE FOOTINGS

RIVERFRONT			
QTY	Northing	Easting	Remarks
1	304035.28	2304654.82	
1	304095.84	2304732.3	
1	304082.91	2304788.81	
1	304216.39	2304759.21	
1	304205.51	2304815.99	
1	304339.52	2304788.52	
1	304328.11	2304843.41	
1	304125.5	2304676.28	
1	304156.93	2304683.53	
1	304219.87	2304697.98	
1	304251.37	2304705.3	
1	304282.7	2304712.36	
1	304313.68	2304719.6	
1	304345.41	2304726.65	
1	304437.34	2304743.31	
1	304479.81	2304753.15	
1	304523.62	2304763.09	
1	304567.22	2304773.08	
1	304610.67	2304783.68	
1	304651.92	2304810.37	
1	304699.86	2304804.38	
1	304788.64	2304825.09	
1	304649.41	2304864.1	
1	304772.44	2304892.79	

REMOVAL OF CURB

RIVERFRONT - AREA 2						
LENGTH (FT)	STA	START		END		Remarks
		Northing	Easting	Northing	Easting	
534	5.34	303988.23	2304674.80	304362.53	2304893.54	
35	0.35	304024.53	2304655.09	304055.83	2304650.10	
311	3.11	304086.58	2304657.08	304372.27	2304718.24	
161	1.61	304411.58	2304730.64	304560.02	2304775.69	
160	1.60	304425.98	2304790.91	304550.44	2304819.63	
35	0.35	304376.95	2304692.53	304352.79	2304670.54	
39	0.39	304418.18	2304707.77	304448.92	2304693.42	

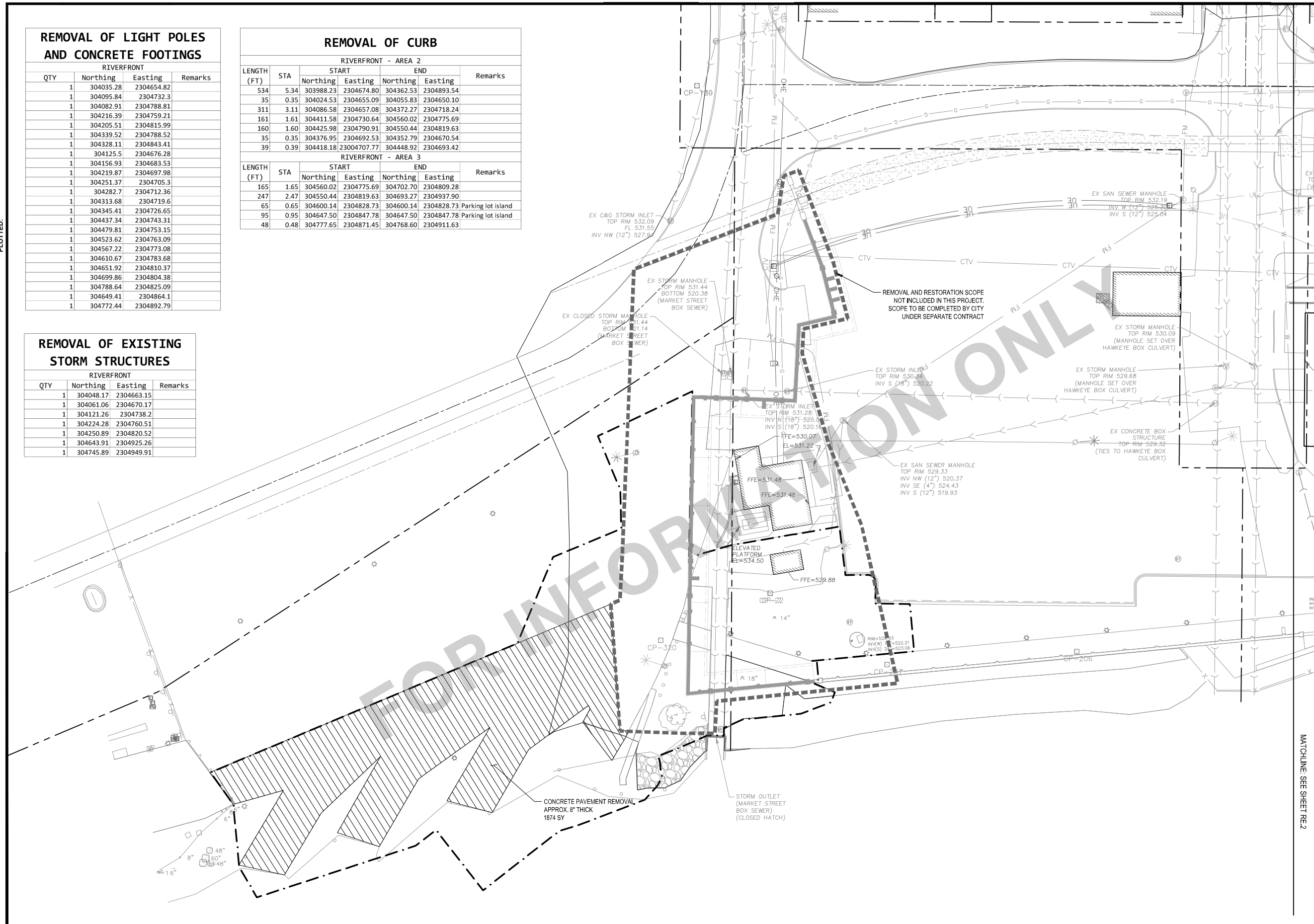
RIVERFRONT - AREA 3						
LENGTH (FT)	STA	START		END		Remarks
		Northing	Easting	Northing	Easting	
165	1.65	304560.02	2304775.69	304702.70	2304809.28	
247	2.47	304550.44	2304819.63	304693.27	2304937.90	
65	0.65	304600.14	2304828.73	304600.14	2304828.73	Parking lot island
95	0.95	304647.50	2304847.78	304647.50	2304847.78	Parking lot island
48	0.48	304777.65	2304871.45	304768.60	2304911.63	

REMOVAL OF EXISTING STORM STRUCTURES

RIVERFRONT			
QTY	Northing	Easting	Remarks
1	304048.17	2304663.15	
1	304061.06	2304670.17	
1	304121.26	2304738.2	
1	304224.28	2304760.51	
1	304250.89	2304820.52	
1	304643.91	2304925.26	
1	304745.89	2304949.91	

PLOTTED:

X-REFS: 11682-001-TTBK & 11682-001-C-DEMO & 11682-001-C-SURV-RVFR-COMB & 11682-001-C-PHAS & 11682-001-VK-LAYO-RVFR
FILE PATH:



SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
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SMITHGROUP

DATE: _____ REVISIONS: _____

V&K

VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)-7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

REMOVAL PLAN - AREA 1

DWG. NO. RE.1

PROJECT

SHEET NOTES

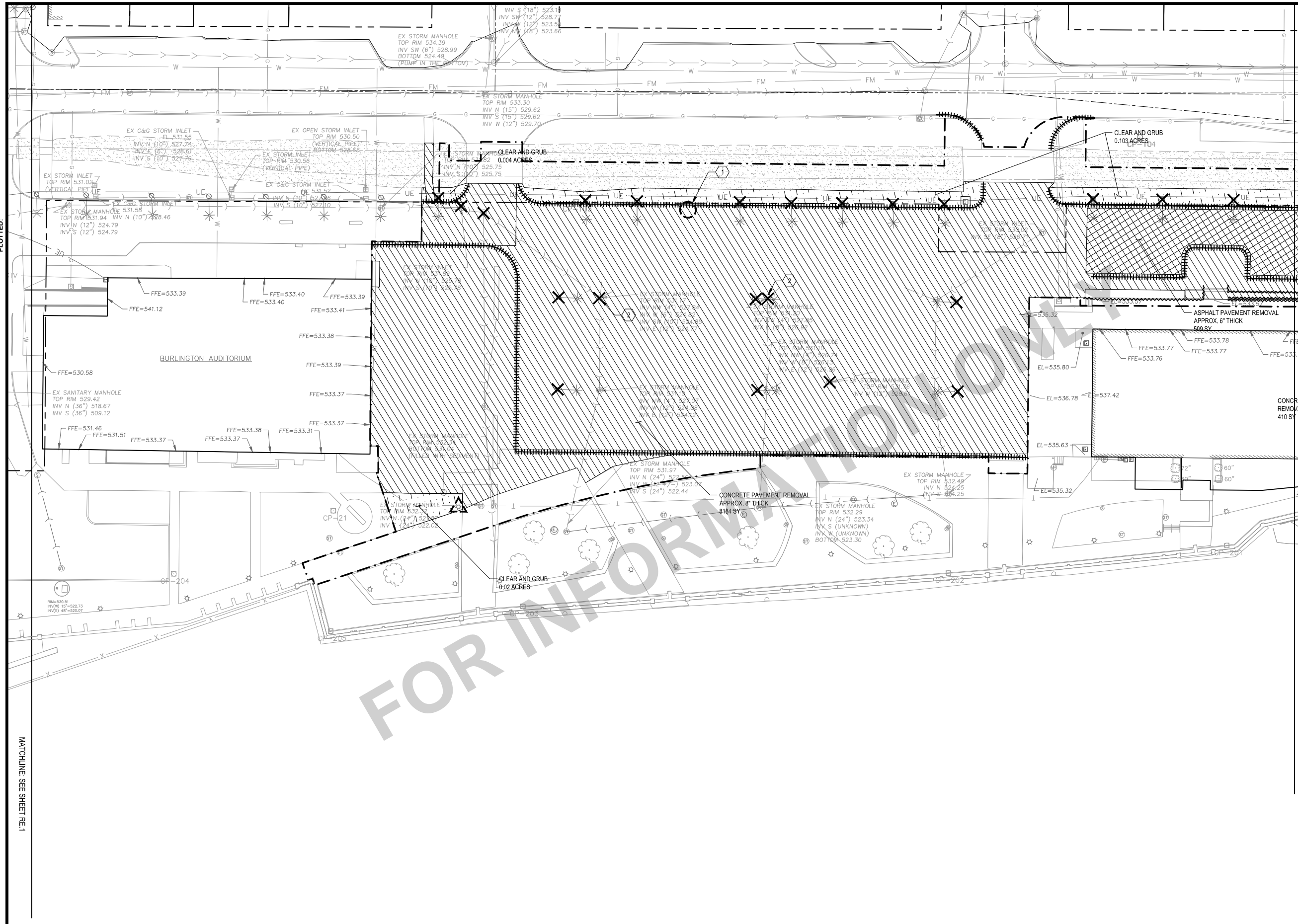
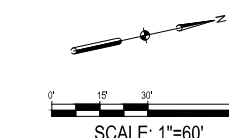
1. PROTECT ALL UTILITY STRUCTURES UNLESS OTHERWISE NOTED. SEE UTILITY PLANS FOR SURFACE ADJUSTMENTS. WITHIN PAVEMENT REMOVAL LIMITS.
2. REMOVE ALL LIGHT POLES WITHIN PAVEMENT REMOVAL LIMITS UNLESS OTHERWISE NOTED. PROTECT POLES OUTSIDE OF PAVEMENT REMOVAL LIMITS UNLESS MARKED FOR REMOVAL OR RELOCATION.

LEGEND

- - - PROJECT LIMITS
- [Hatched Box] FULL DEPTH CONCRETE PAVEMENT REMOVAL
- [X] TREE REMOVAL
- [Dashed Line] TREE PROTECTION FENCE
- [Circle with X] PROTECT
- [X] REMOVE LIGHT POLE AND FOUNDATION
- [X] REMOVE EXISTING STORM STRUCTURE
- [Triangle] SALVAGE
- [Triangle with X] RELOCATE
- [X-X-X-X] UTILITY REMOVAL
- [Line with T] CAP UTILITY
- [X] CONSTRUCTION FENCE
- [Line with T] CONSTRUCTION ENTRANCE
- [Dashed Line] CURB REMOVAL
- [Wavy Line] HANDRAIL & GUARDRAIL REMOVAL
- [Dotted Box] CLEAR AND GRUB
- [Cross-hatched Box] FULL DEPTH ASPHALT PAVEMENT REMOVAL

KEYED NOTES

- 1 PROTECT EXISTING MARQUEE SIGN TO REMAIN IN PLACE
- 2 STORM SEWER STRUCTURE TO BE REMOVED, STORM SEWER LINES TO BE PROTECTED - SEE MU SHEETS



X-REFS: 11682-001-TTBK & 11682-001-C-DEMO & 11682-001-C-SURV-RIVERFRONT-COMB & 11682-001-C-PHAS & 11682-001-VK-LAYO-RIVER
FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
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REMOVAL PLAN - AREA 2

DWG. NO.
RE.2
PROJECT

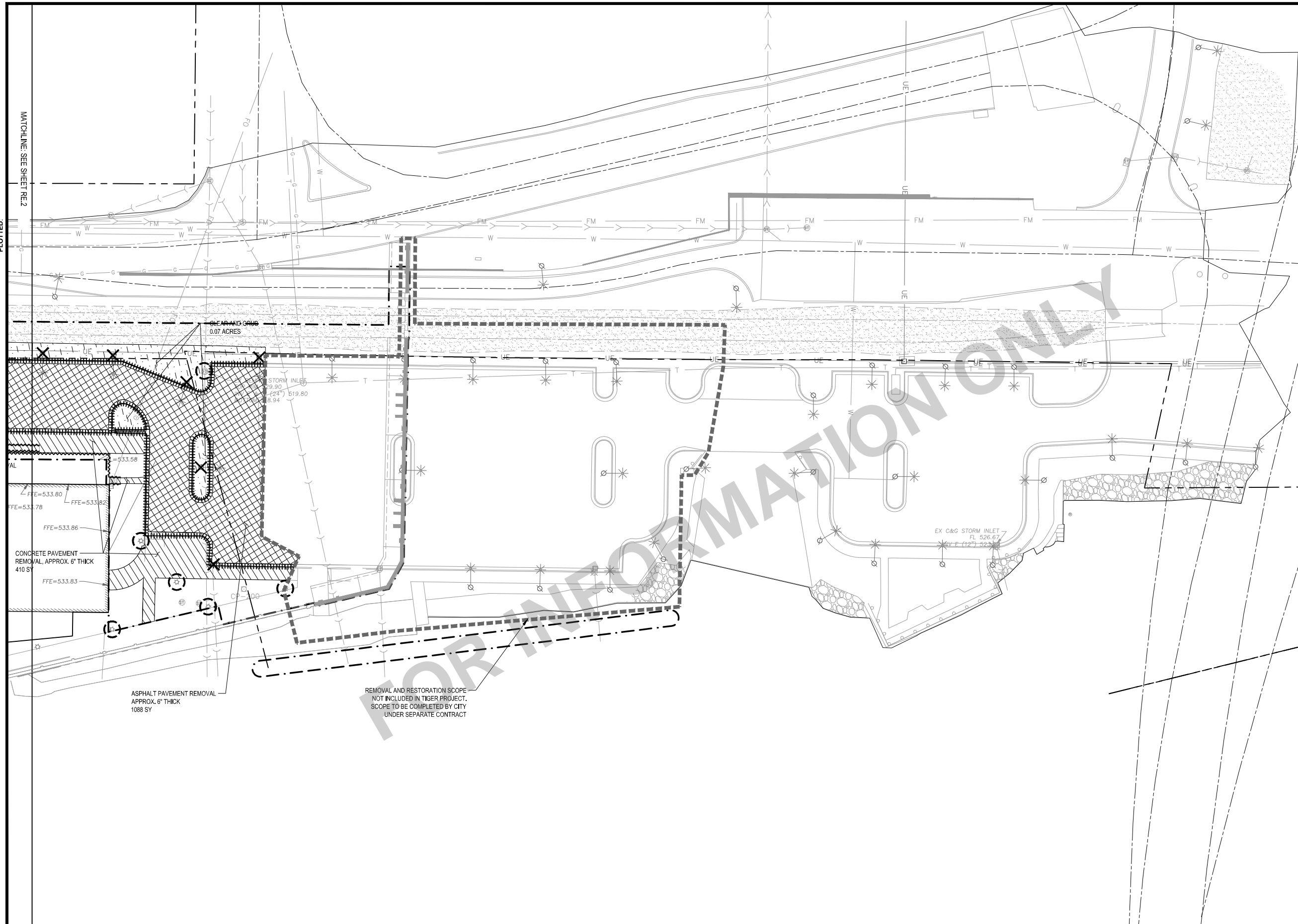
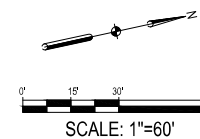
SHEET NOTES

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LEGEND

- PROJECT LIMITS
- [Hatched Box] FULL DEPTH CONCRETE PAVEMENT REMOVAL
- [X] TREE REMOVAL
- [Dashed Line] TREE PROTECTION FENCE
- [Circle with X] PROTECT
- [Circle with X] REMOVE LIGHT POLE AND FOUNDATION
- [Circle with X] REMOVE EXISTING STORM STRUCTURE
- [Triangle with X] SALVAGE
- [Triangle with X] RELOCATE
- [X-X-X-X] UTILITY REMOVAL
- [Line with T] CAP UTILITY
- [Line with X] CONSTRUCTION FENCE
- [Line with T] CONSTRUCTION ENTRANCE
- [Dashed Line] CURB REMOVAL
- [Wavy Line] HANDRAIL & GUARDRAIL REMOVAL
- [Dotted Area] CLEAR AND GRUB
- [Cross-hatched Area] FULL DEPTH ASPHALT PAVEMENT REMOVAL

KEYED NOTES



PLOTTED: MATCHLINE: SEE SHEET RE.2

X-REFS: 11682-001-TTBK & 11682-001-C-DEMO & 11682-001-C-SURV-RVFR-COMB & 11682-001-C-PHAS & 11682-001-VK-LAYO-RVFR
FILE PATH:

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DRAWN	RW
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

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




REMOVAL PLAN - AREA 3

DWG. NO.	RE.3
PROJECT	

GRATE INTAKE SEDIMENT FILTER BAG

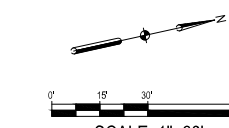
RIVERFRONT			
QTY	Northing	Easting	Remarks
1	303991.67	2304640.27	EXISTING STORM INLET
1	303990.63	2304645.74	EXISTING STORM INLET
1	304032.02	2304652.18	STM-CI-08
1	304060.17	2304669.29	STM-CI-07
1	304118.57	2304748.63	STM-EG-16
1	304156.62	2304720.01	STM-CI-10
1	304221.13	2304772.92	STM-MH-20
1	304279.62	2304748.50	STM-CI-12
1	304327.27	2304785.20	STM-MH-01
1	304313.45	2304843.40	STM-MH-02
1	304476.83	2304793.59	STM-CI-14
1	304665.11	2304805.73	STM-EG-22
1	304623.07	2304826.84	STM-CI-17
1	304672.44	2304906.86	STM-CI-16
1	304643.72	2304926.85	EXISTING STORM INLET

SITE MATERIAL SCHEDULE

-  SILT FENCE
-  GRATE INTAKE SEDIMENT FILTER BAG
-  PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE
-  SILT CURTAIN
-  STABILIZED CONSTRUCTION ENTRANCE

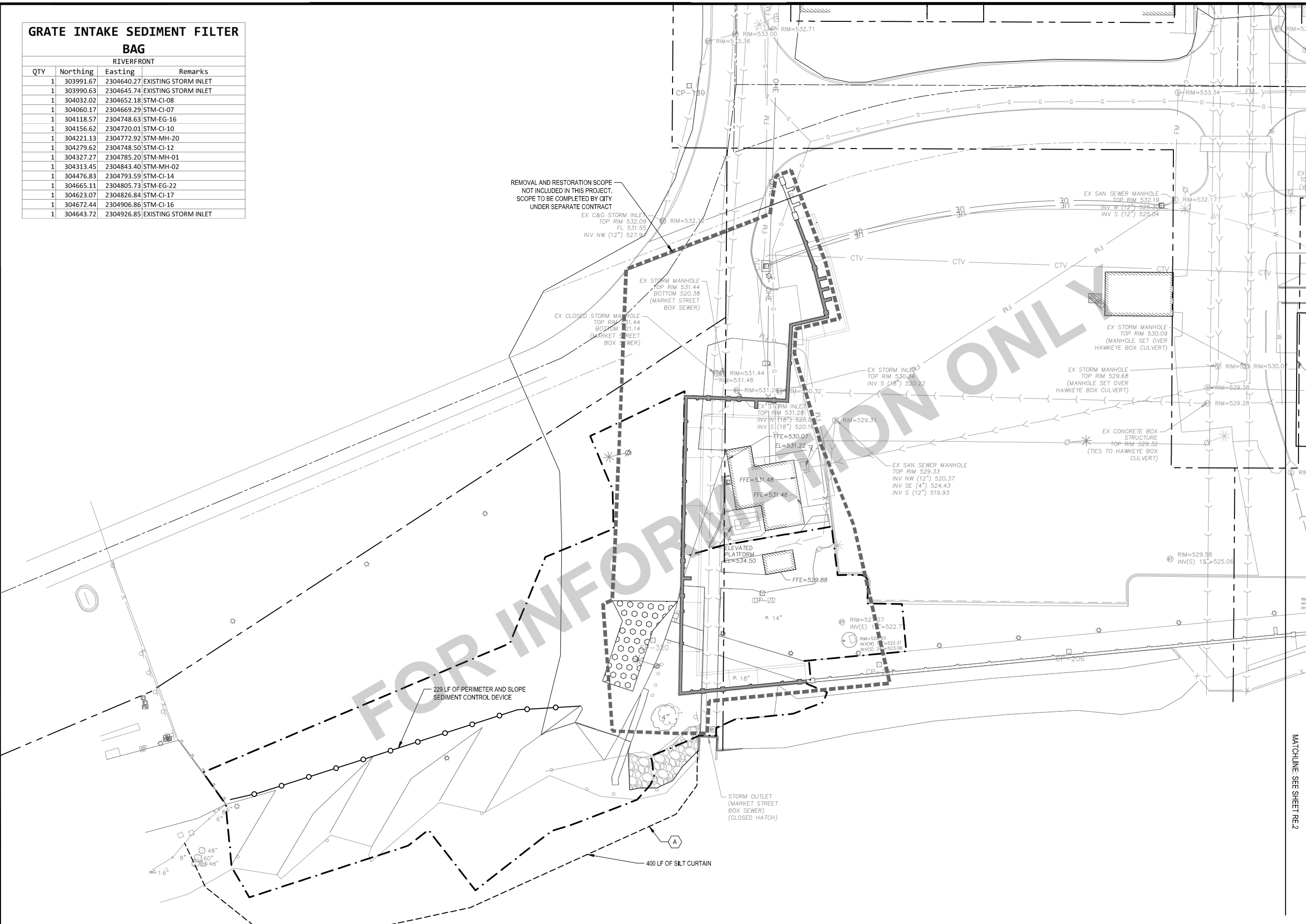
KEYED NOTES

-  TURBIDITY BARRIER



PLOTTED:

X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-WK-LAYO-RVR & 11682-001-C-SURV-RVR-COMB & 11682-001-C-SESC & 11682-001-C-PHAS & 11682-001-C-UTIL
FILE PATH:



SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
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SMITHGROUP

DATE: _____ REVISIONS: _____

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CITY OF BURLINGTON, IOWA

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




EROSION CONTROL PLAN - AREA 1

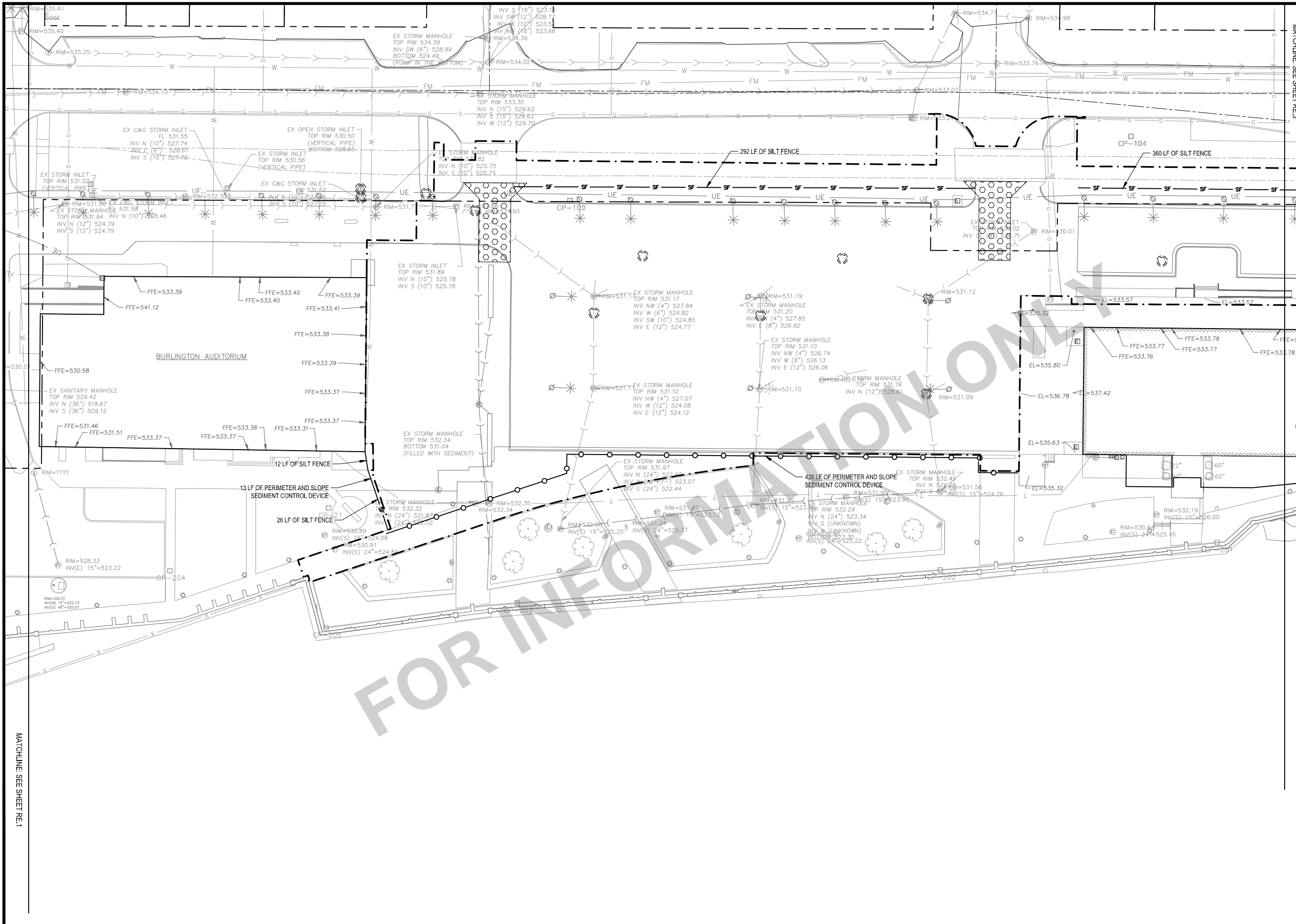
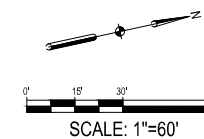
DWG. NO.
RR.1

PROJECT

SHEET NOTES

SITE MATERIAL SCHEDULE

-  SILT FENCE
-  GRATE INTAKE SEDIMENT FILTER BAG
-  PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE
-  SILT CURTAIN
-  STABILIZED CONSTRUCTION ENTRANCE



X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-WK-LAYO-RVR & 11682-001-C-SURV-RVR-COMB & 11682-001-C-SESC & 11682-001-C-PHAS & 11682-001-C-UTIL
FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	1"
DATE 04/12/2021	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
ISSUED FOR BID DOCUMENTS	

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DATE	REVISIONS

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VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA






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EROSION CONTROL PLAN - AREA 2

DWG. NO.	RR.2
PROJECT	

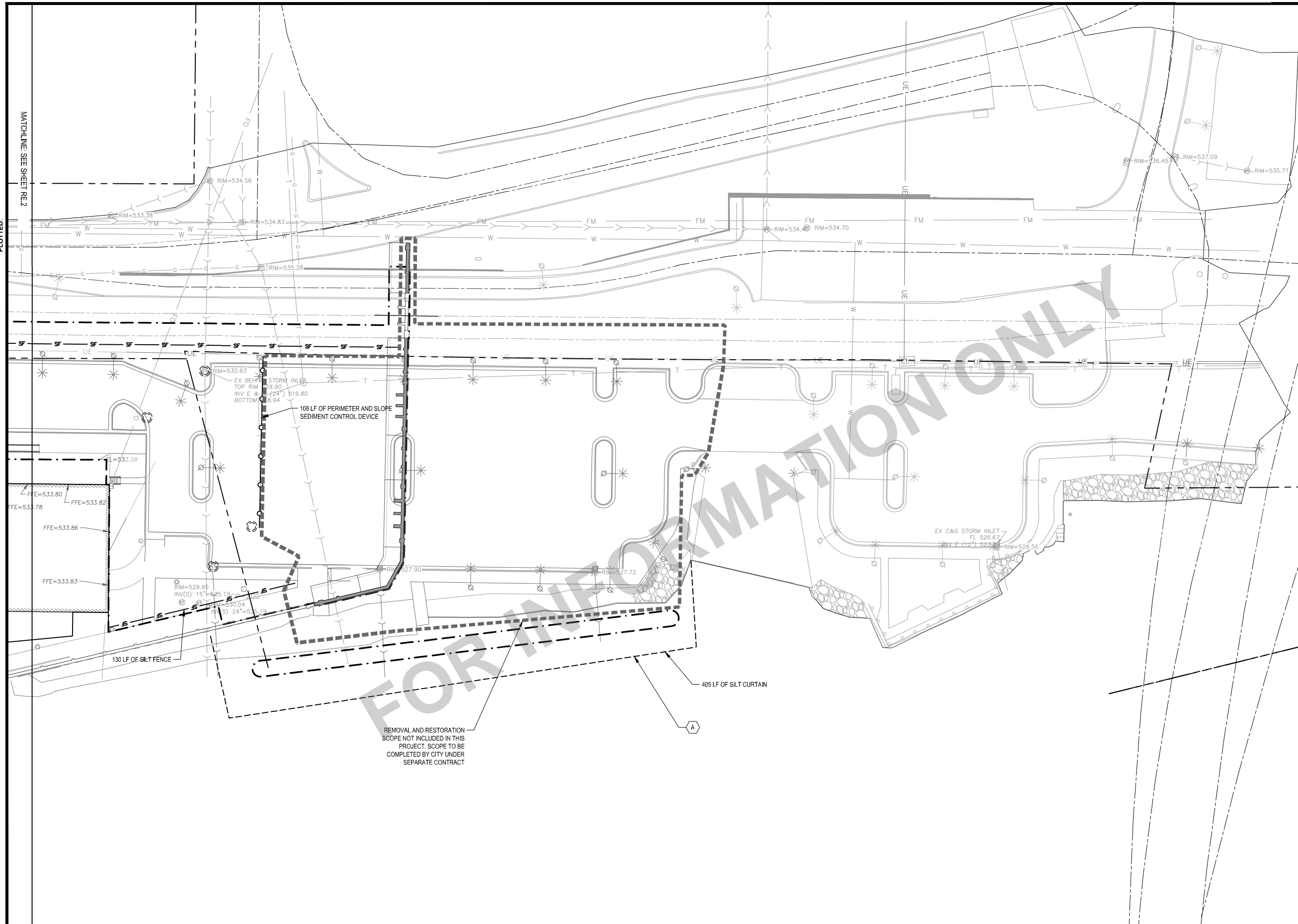
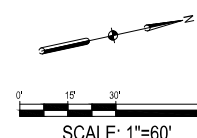
SHEET NOTES

SITE MATERIAL SCHEDULE

-  SILT FENCE
-  GRATE INTAKE SEDIMENT FILTER BAG
-  PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE
-  SILT CURTAIN
-  STABILIZED CONSTRUCTION ENTRANCE

KEYED NOTES

-  TURBIDITY BARRIER



X-REFS: 11682-001-TTBK & 11682-001-C-LAYO & 11682-001-C-MATL & 11682-001-WK-LAYO-RVR & 11682-001-C-SURV-RVR-COMB & 11682-001-C-SESC & 11682-001-C-PHAS & 11682-001-C-UTIL
FILE PATH:

SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
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SMITHGROUP

DATE	REVISIONS

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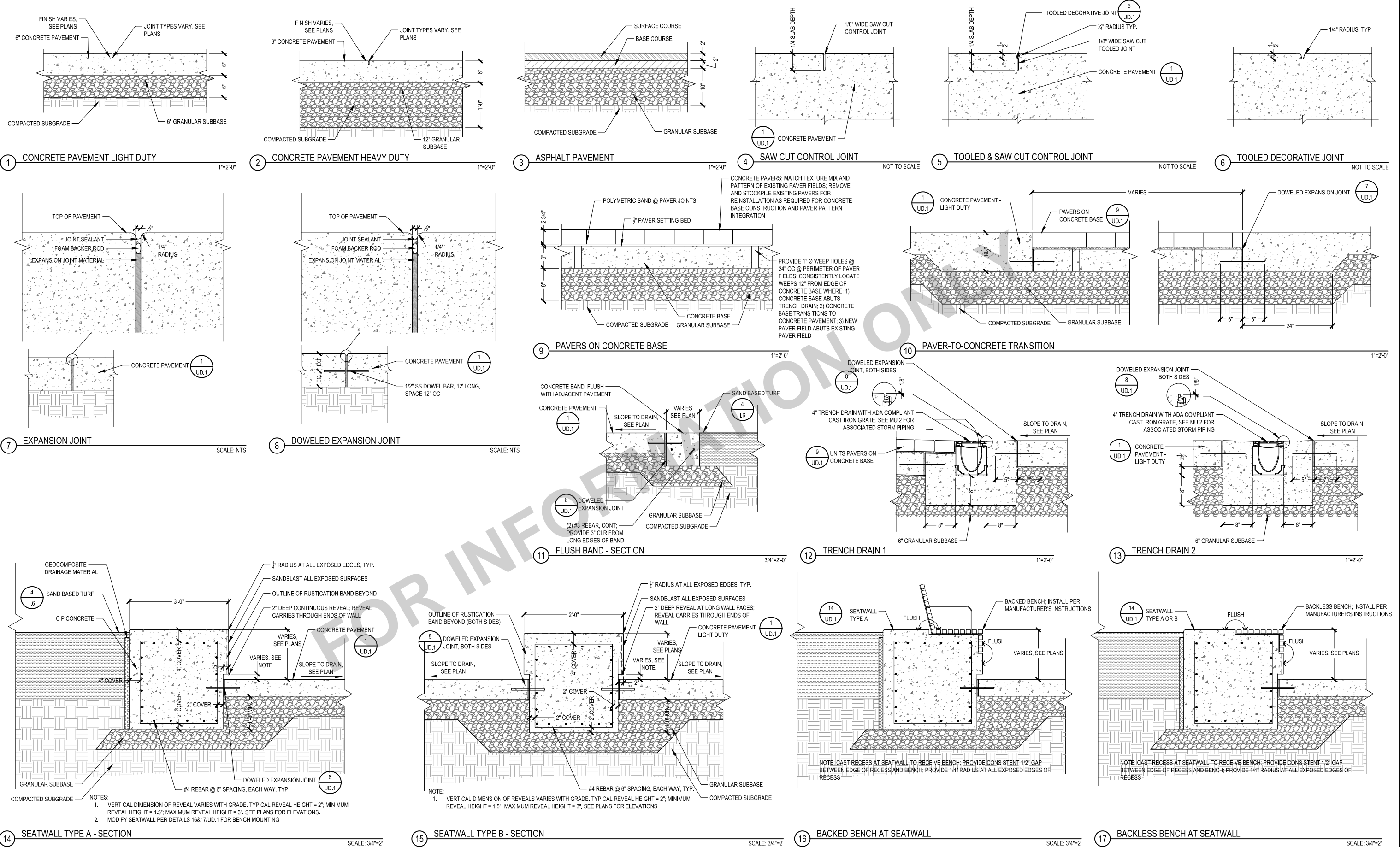
PROJECT #: EDP-0977(653)-7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

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EROSION CONTROL PLAN - AREA 3

DWG. NO.	RR.3
PROJECT	

PLOTTED:



X-REFS: 11682-001-TTBK & PAVEMENT & GUARDRAIL & 11682-PAVEMENT-TYPICAL-SECTIONS
FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE _____ REVISIONS _____

V&K

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PROJECT #: EDP-0977(653)-7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

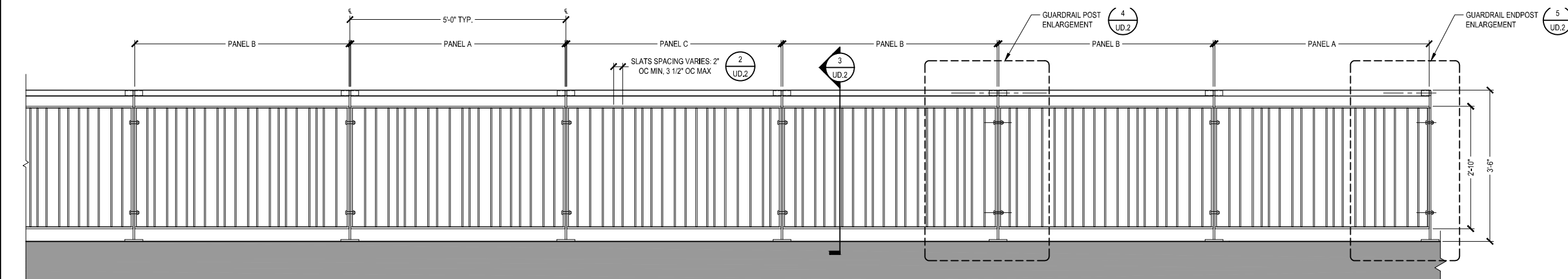
1800 5th Ave • Rock Island, Illinois 61201
 309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

SITE DETAILS - PAVEMENT DETAILS

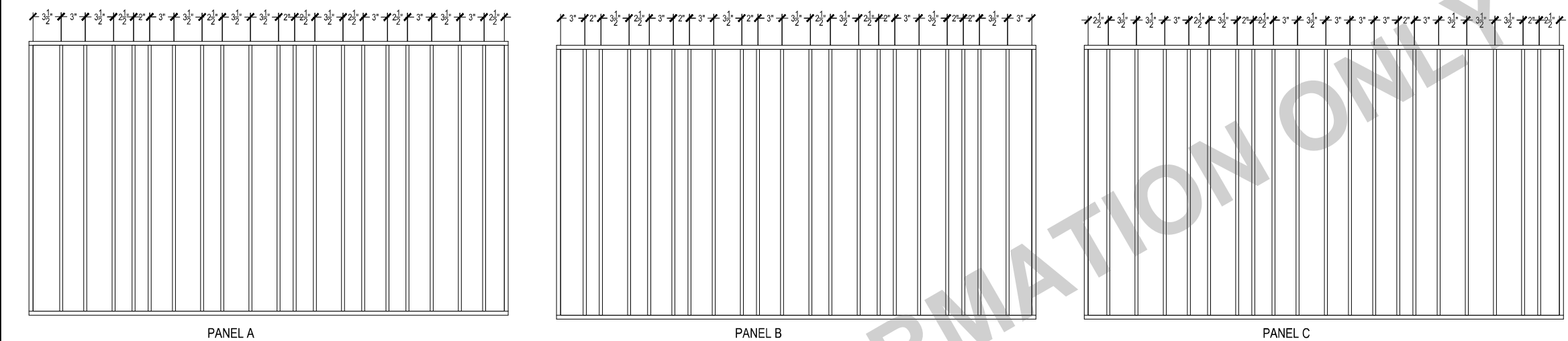
DWG. NO. **UD.1**

PROJECT _____

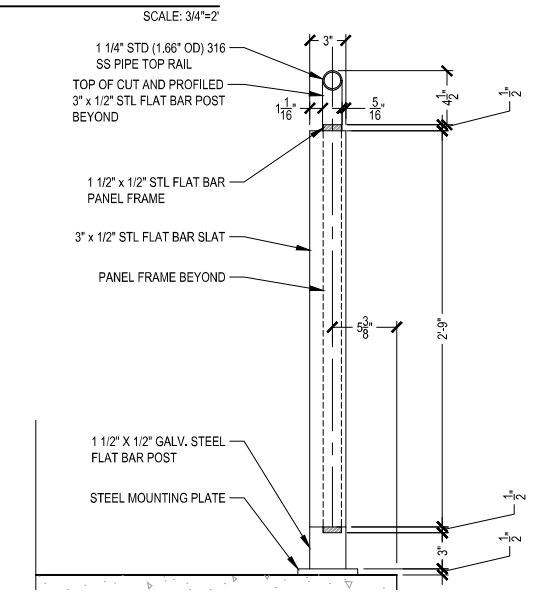
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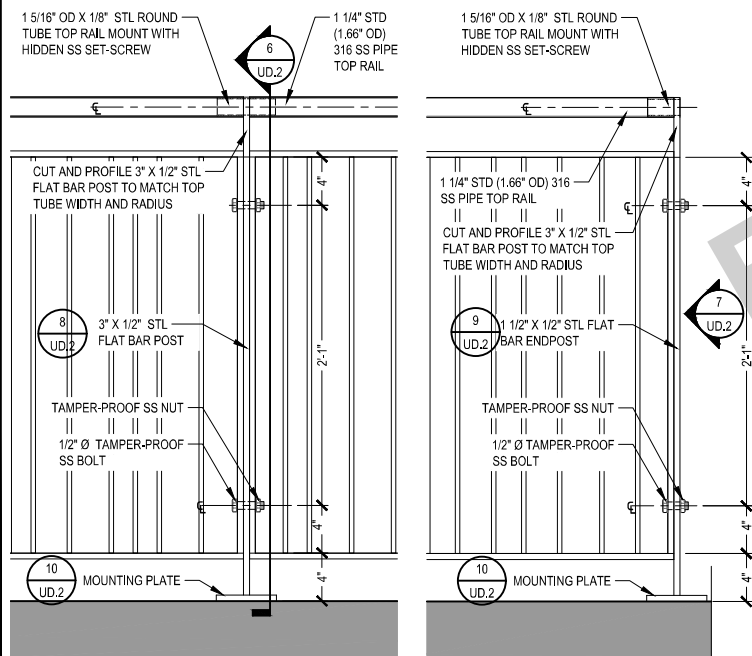
1 GUARDRAIL ELEVATION



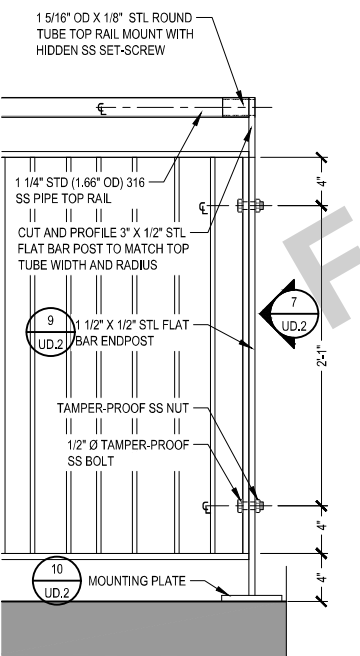
2 TYPICAL PANEL ELEVATIONS



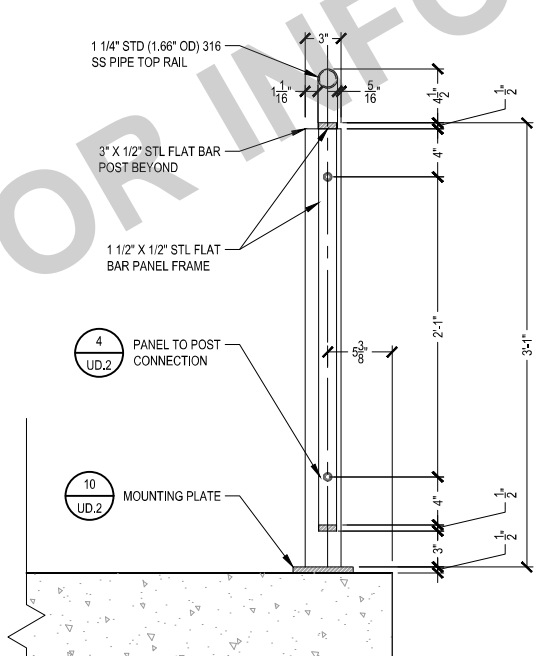
3 GUARDRAIL SECTION



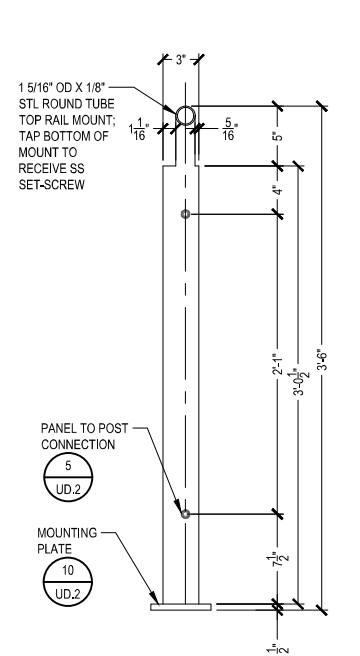
4 GUARDRAIL POST ENLARGEMENT ELEVATION



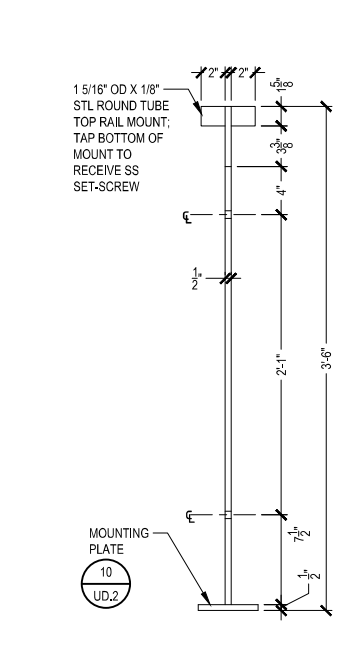
5 GUARDRAIL ENDPST ENLARGEMENT ELEVATION



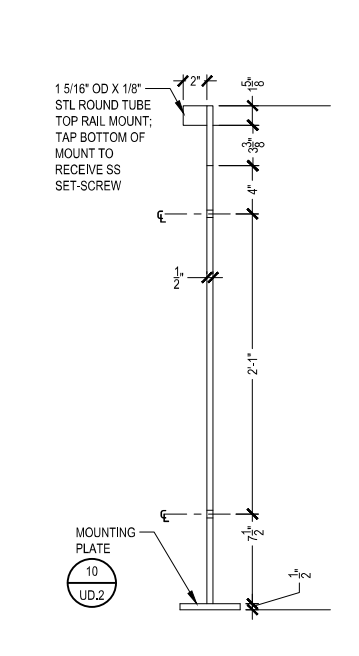
6 GUARDRAIL POST SECTION



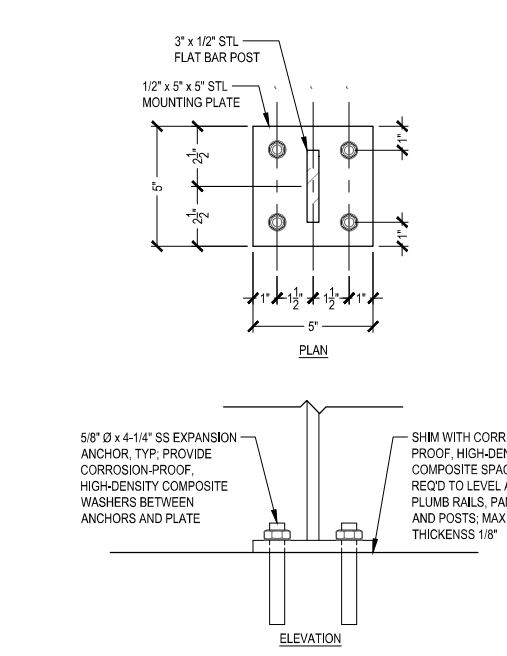
7 GUARDRAIL ENDPST FRONT ELEVATION



8 GUARDRAIL POST SIDE ELEVATION



9 GUARDRAIL ENDPST SIDE ELEVATION



10 MOUNTING PLATE

X-REFS: 11682-001-TTBK & PAVEMENT & GUARDRAIL & 11682-PAVEMENT-TYPICAL-SECTIONS
FILE PATH:

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APPROVED RW	
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

DATE	REVISIONS

SMITHGROUP

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VEENSTRA & KIMM, INC.

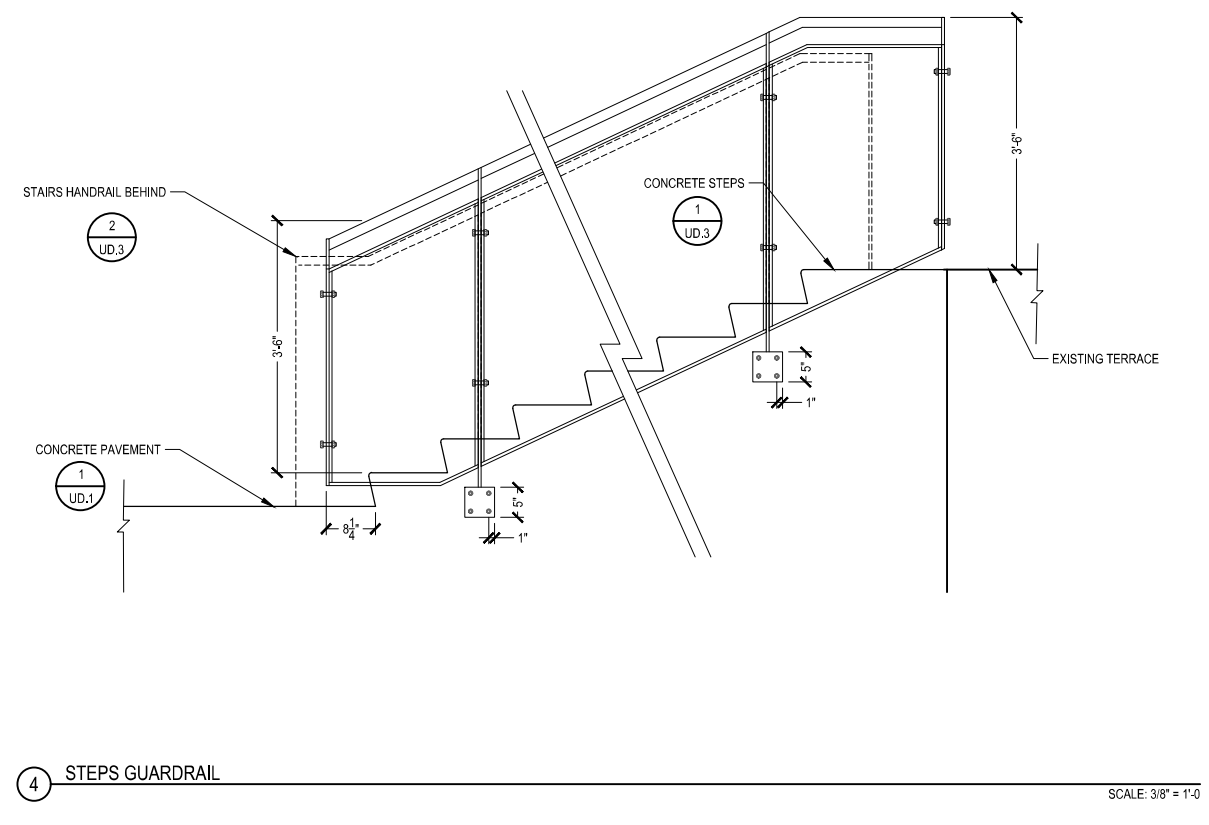
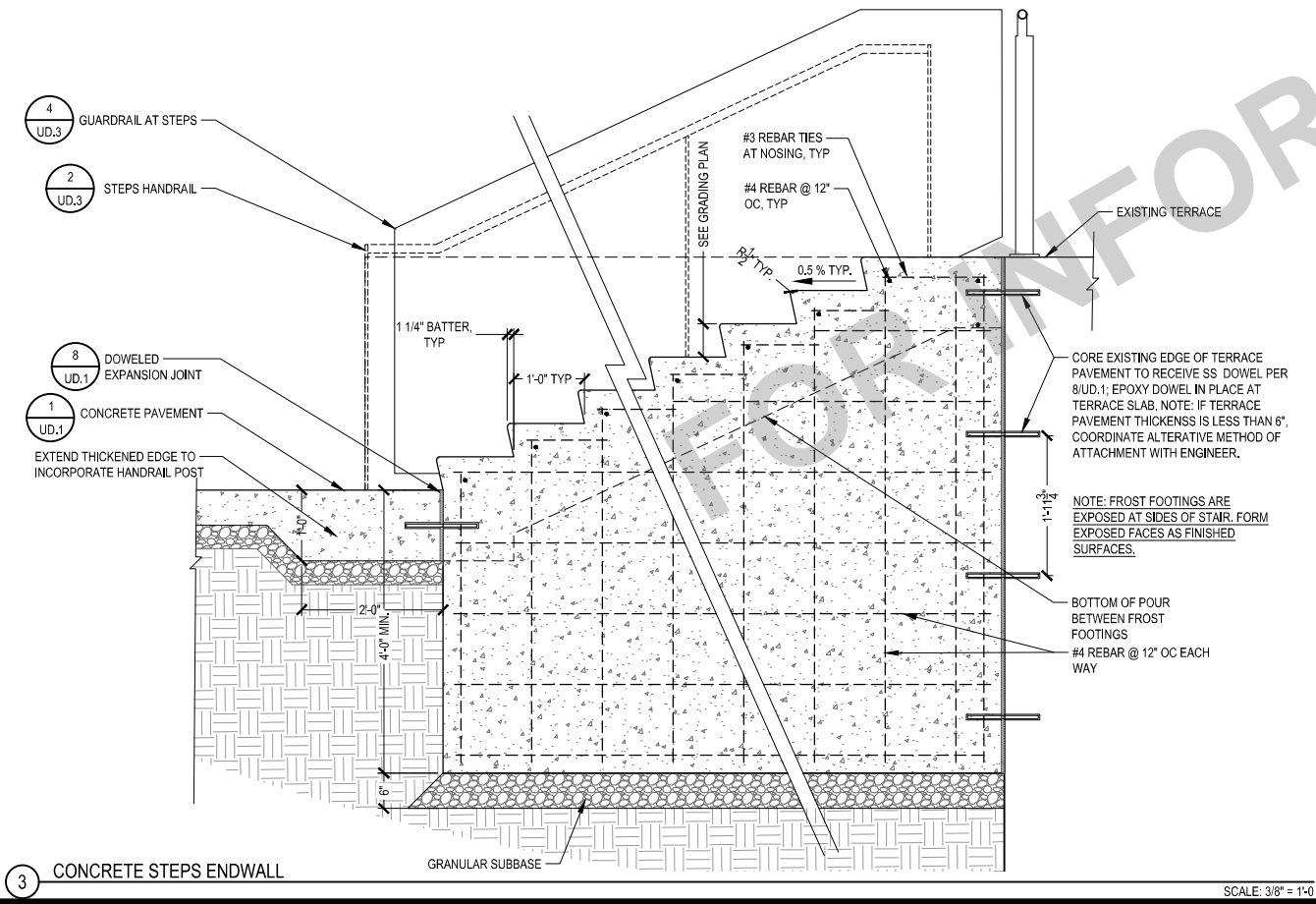
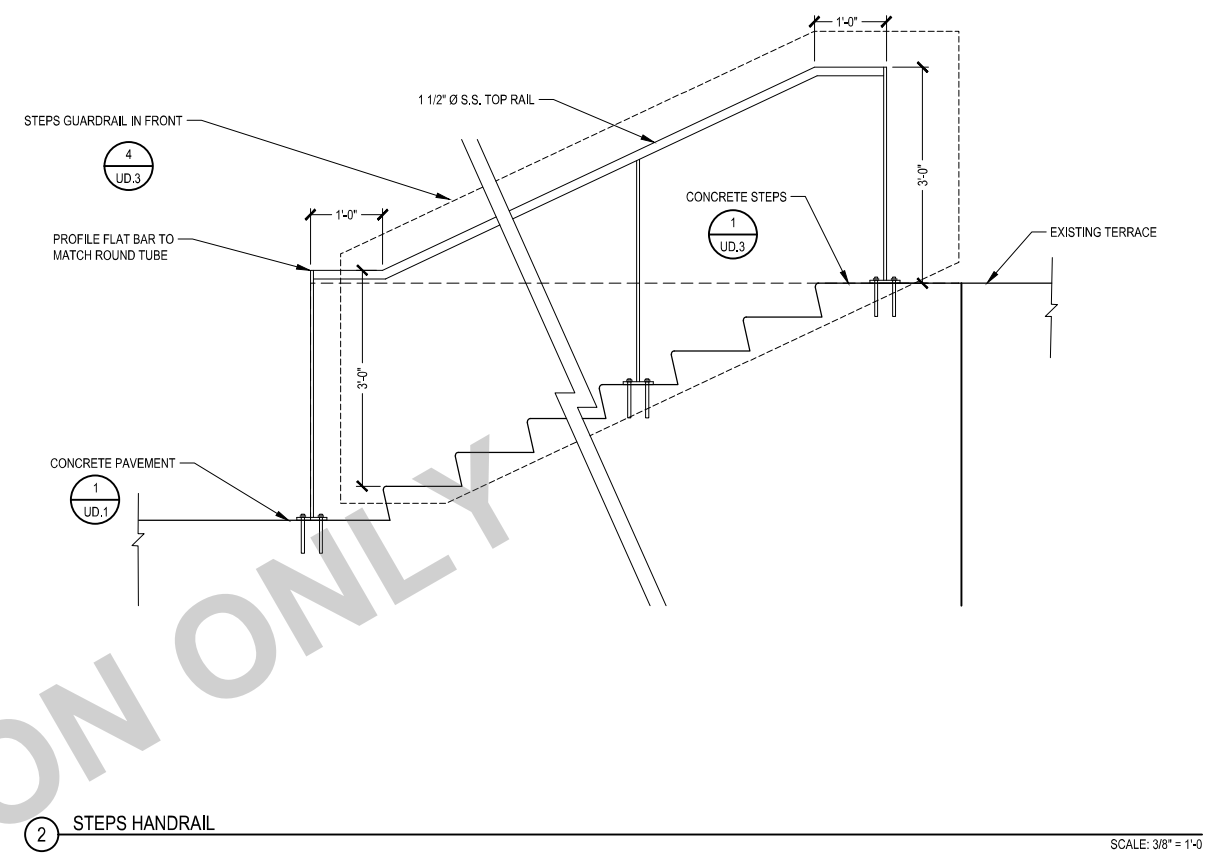
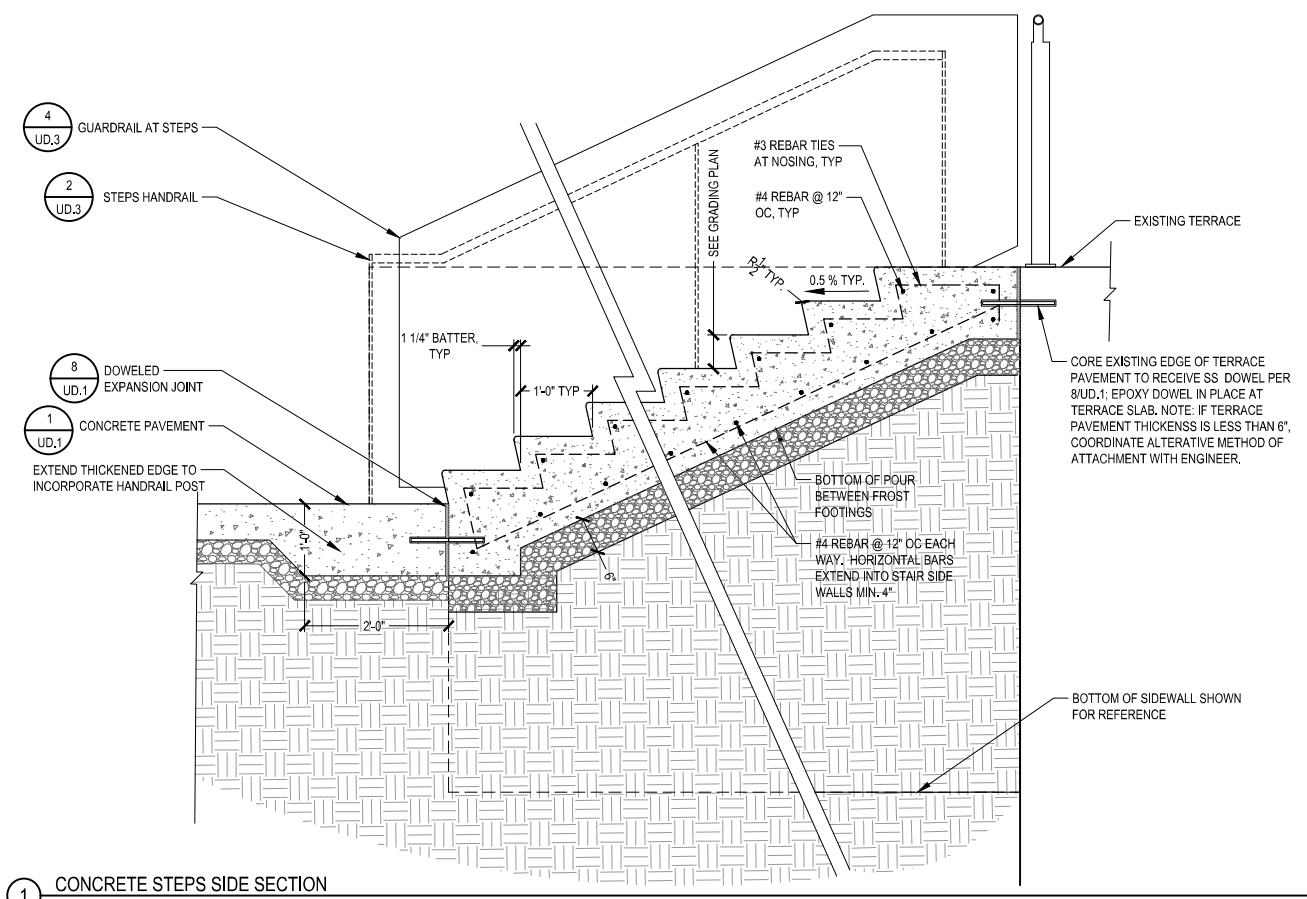
PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-786-7390 • 309-797-0996(FAX) • 877-241-8010(WATS)

SITE DETAILS - GUARDRAIL DETAILS

DWG. NO.
UD.2
PROJECT

PLOTTED:



X-REFS: 11682-001-TTBK & PAVEMENT & GUARDRAIL & 11682-PAVEMENT-TYPICAL-SECTIONS
FILE PATH:

SCALE	VERIFY SCALE
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APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
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DATE	REVISIONS

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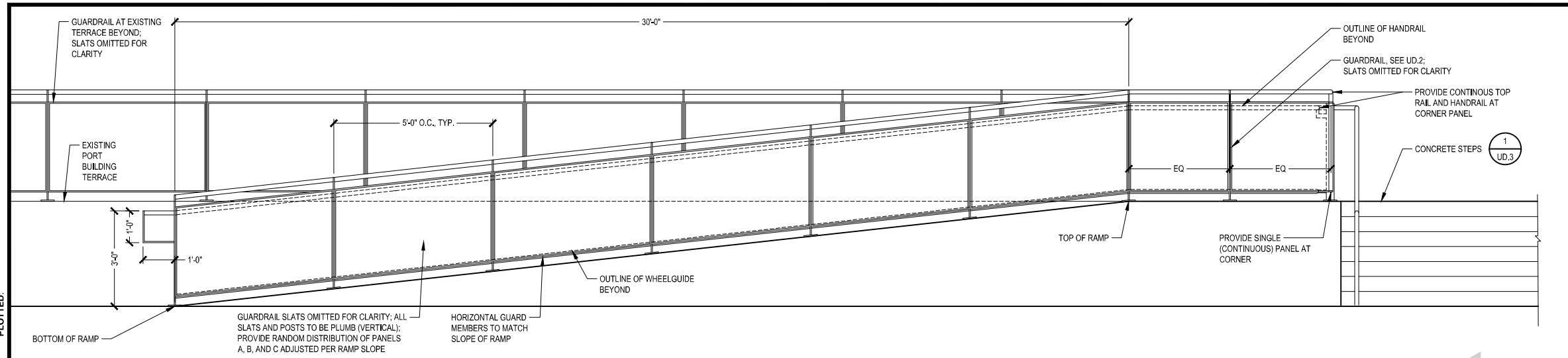
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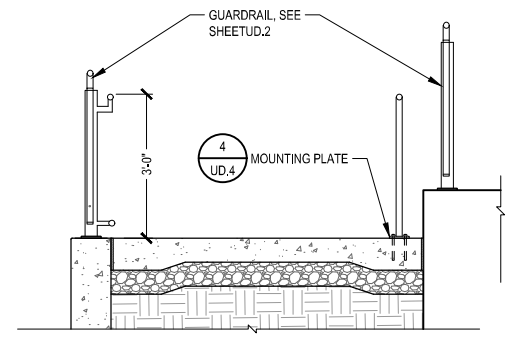
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DWG. NO.	UD.3
PROJECT	

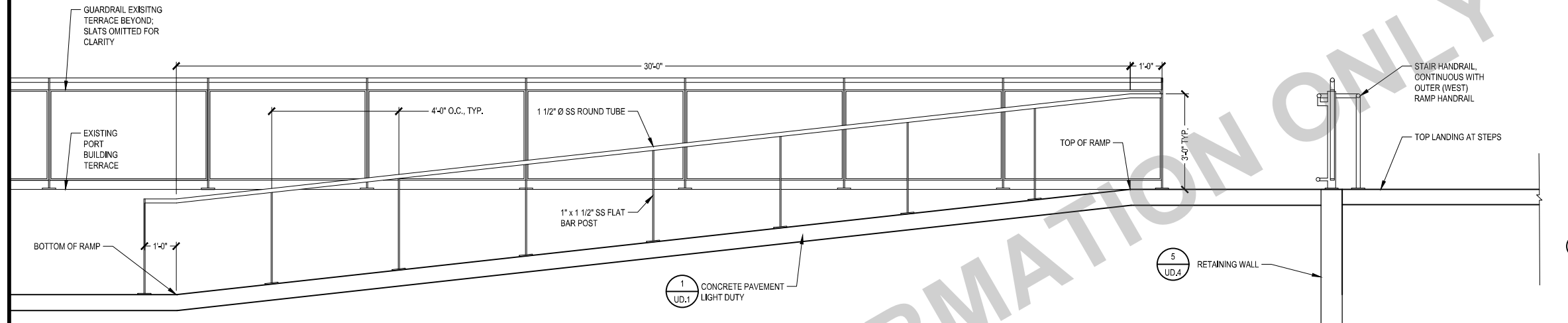
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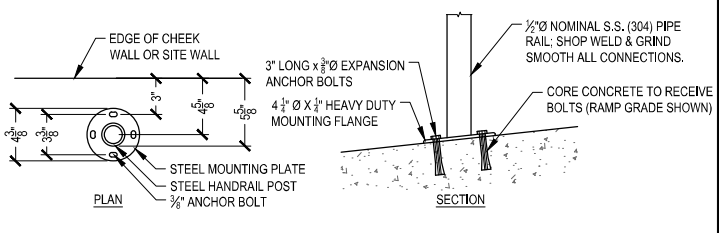
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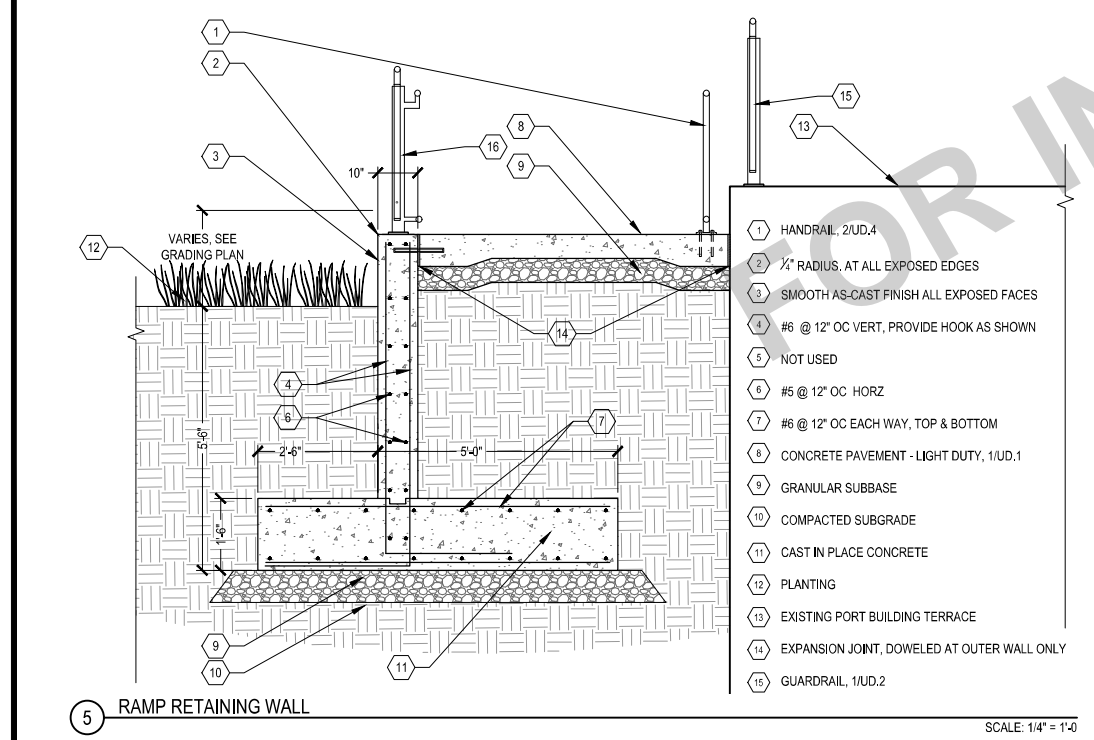
3 RAMP HANDRAIL SECTION SCALE: 1/4" = 1'-0"



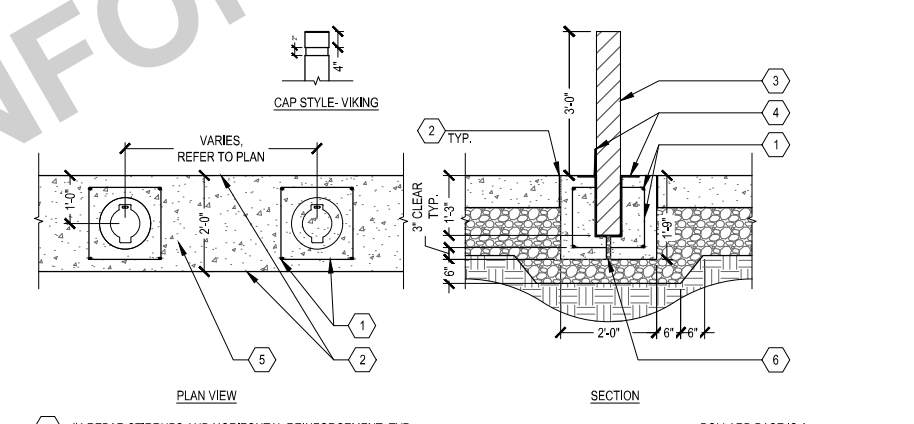
2 RAMP HANDRAIL ELEVATION SCALE: 1/4" = 1'-0"



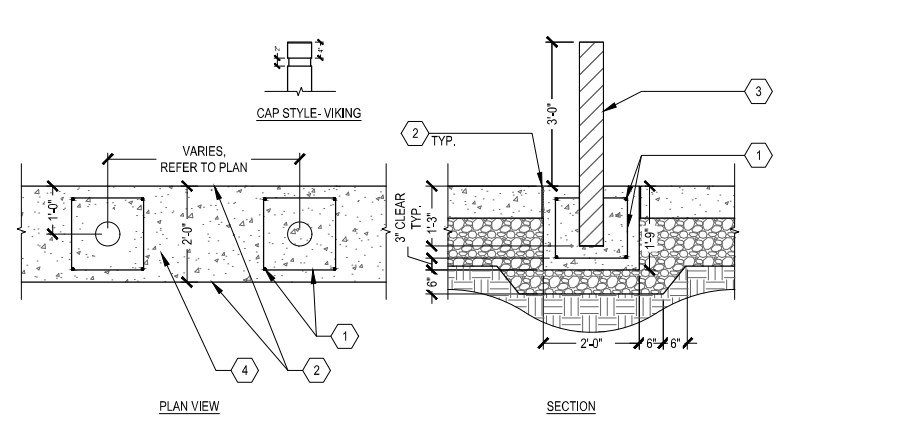
4 RAMP HANDRAIL MOUNTING PLATE SCALE: 3/4" = 1'-0"



5 RAMP RETAINING WALL SCALE: 1/4" = 1'-0"



6 REMOVABLE BOLLARD SCALE: 1/4" = 1'-0"



7 FIXED BOLLARD SCALE: 1/4" = 1'-0"

X-REFS: 11682-001-TTBK & PAVEMENT & GUARDRAIL & 11682-PAVEMENT-TYPICAL-SECTIONS
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SMITHGROUP

DATE REVISIONS

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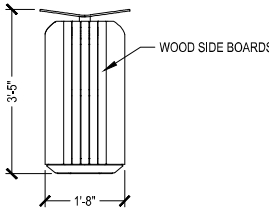
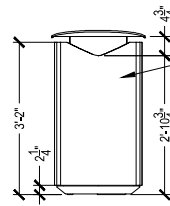
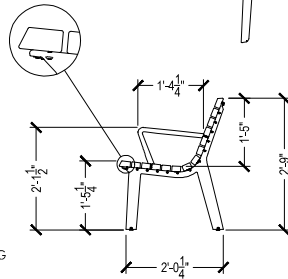
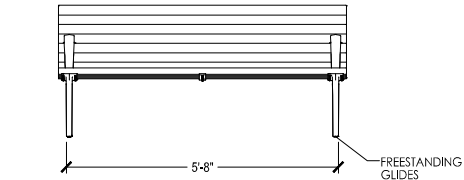
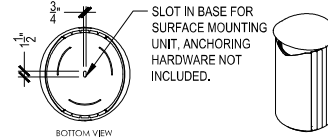
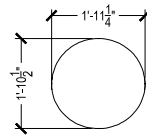
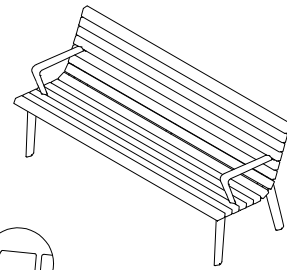
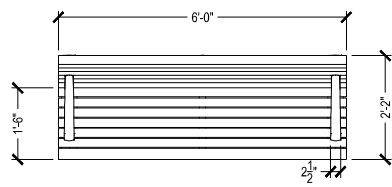
PROJECT #: EDP-0977(653)-7Y-29
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CITY OF BURLINGTON, IOWA

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SITE DETAILS - RAMP & BOLLARD DETAILS

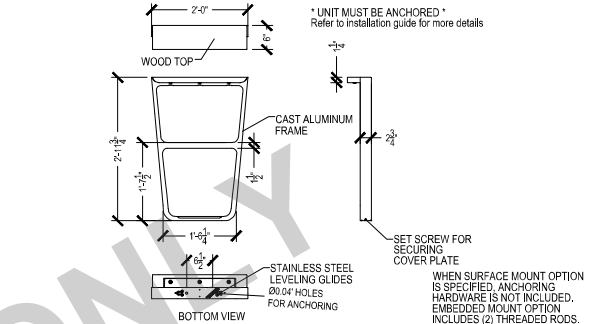
DWG. NO.
UD.4
PROJECT

AVAILABLE WITH:
 -FREESTANDING GUIDES
 -SURFACE MOUNT, INCLUDES 1/2-13 THREADED CUSTOM BOLTS AND DROP-IN ANCHORS
 -EMBEDDED, INCLUDES 1/2-13 x 5' THREADED RODS



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1 TYPICAL BENCH DETAIL

2 TYPICAL RECEPTACLE DETAIL

3 BICYCLE RACK

NTS

NTS

NTS

X-REFS: 11682-001-TTBK & FURN-BENCH-BV201-04 & FURN-LITTER-BV411-01 & FURN-BIKE RACK
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SMITHGROUP	
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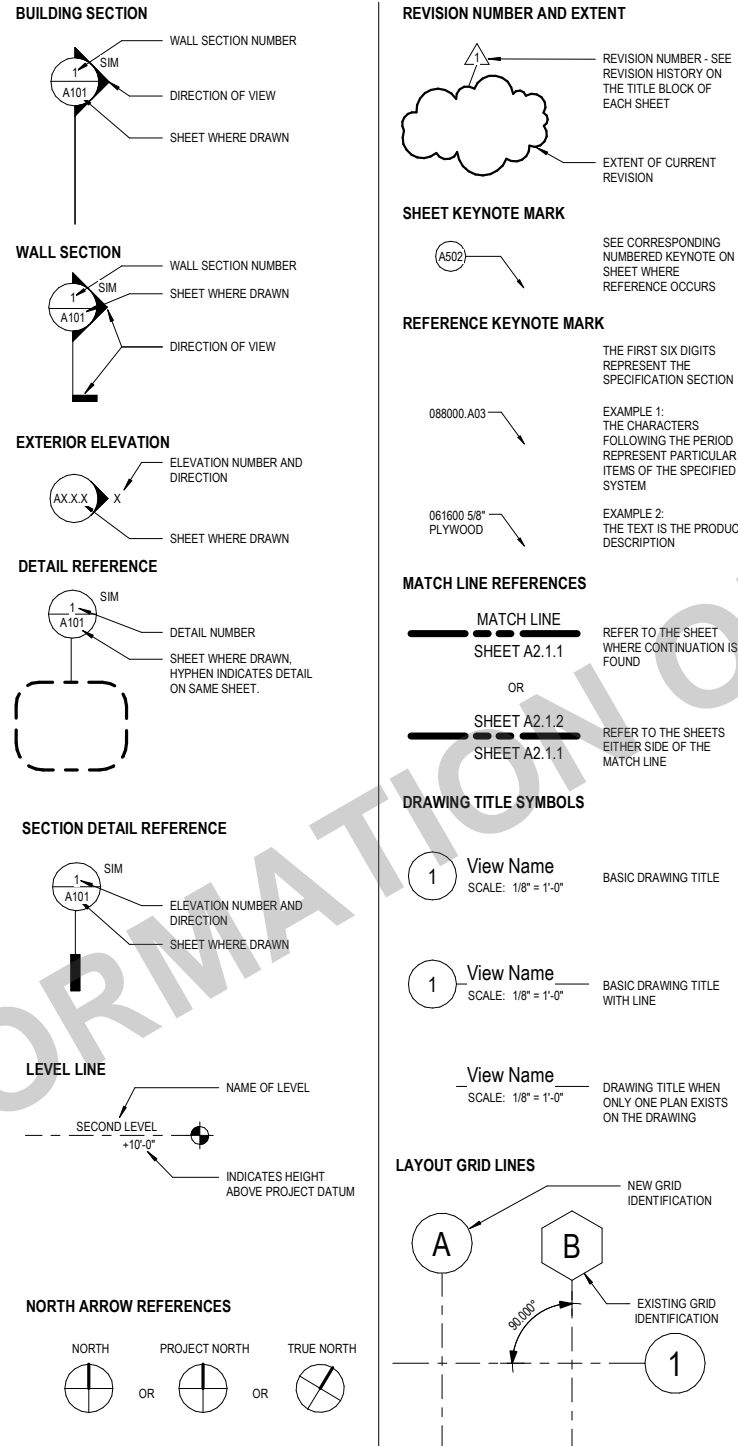
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SITE DETAILS - SITE FURNISHINGS	
DWG. NO.	UD.5
PROJECT	

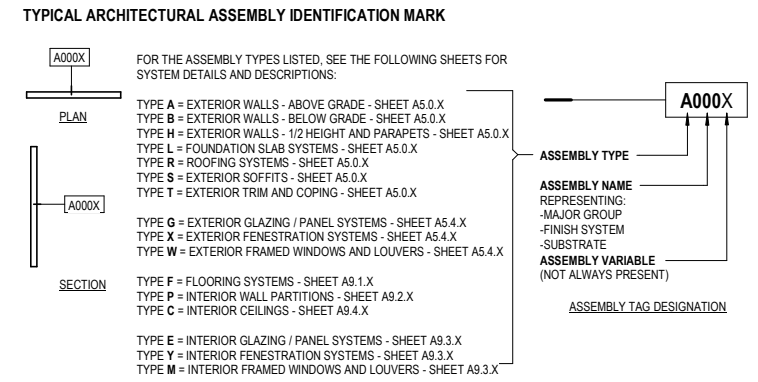
ARCHITECTURAL ABBREVIATIONS

A	AB ANCHOR BOLT AD AREA DRAIN ADDL ADDITIONAL ADH ADHESIVE ADJ ADJUSTABLE ADJ ADJACENT AFG ABOVE FINISH GRADE AFS ABOVE FINISH SLAB AGGR AGGREGATE ALUM ALUMINUM ALT ALTERNATE ANOD ANODIZED APPROX APPROXIMATE(LY) ARCH ARCHITECT(URAL) ASPH ASPHALT AVG AVERAGE	H	H HIGH HC HOLLOW CORE HD HEAD HGT HEIGHT HM HOLLOW METAL HORIZ HORIZONTAL HPT HIGH POINT	Q	QTY QUANTITY
B	BB BULLETIN BOARD BD BOARD BTWN BETWEEN BM BENCHMARK BOD BASIS OF DESIGN BOT BOTTOM BOS BOTTOM OF STEEL BRG BEARING	J	JT JOINT	R	RAD RADIUS RECT RECTANGULAR REF REFERENCE REQD REQUIRED REQT REQUIREMENT RH RIGHT HAND RHMS ROUND HEAD MACHINE SCREW RND ROUND
C	CB CATCH BASIN CEM CEMENT, CEMENTITIOUS CJ CONTROL JOINT CL CENTER LINE CLR CLEAR CMU CONCRETE MASONRY UNIT COL COLUMN CONC CONCRETE CONN CONNECTION CONSTR CONSTRUCTION CONT CONTINUOUS CONTR CONTRACTOR CSK COUNTERSUNK	L	L LENGTH LONG LF LINEAR FOOT LG LENGTH LIN LINEAR LT LIGHT LTG LIGHTING	S	S SOUTH SC SOLID CORE SCHED SCHEDULE SD STORM DRAIN SE SOUTHEAST SECT SECTION SEG SEGMENT SEP SEPARATION OR SEPARATE SEP JT SEPARATION JOINT SIM SIMILAR SP SPACE, SPACED, SPACING SPEC SPECIFICATION SQ SQUARE STAG STAGGERED STD STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURAL STS SELF-TAPPING STEEL SUSP SUSPENDED SW SOUTHWEST SYMM SYMMETRICAL SYST SYSTEM
D	D DEPTH DBL DOUBLE DBL ACT DOUBLE ACTING DEG DEGREE DET DETAIL DIA DIAMETER DIAG DIAGONAL DIM DIMENSION DIM PT DIMENSION POINT DIST DISTANCE DN DOWN DR DRAIN DWG DOWNSPOUT DWGS DRAWING/DRAWINGS	M	MATL MATERIAL MAX MAXIMUM MB MACHINE BOLT MED MEDIUM MIN MINIMUM MISC MISCELLANEOUS	T	TC TOP OF CONCRETE, TOP OF CURB THK THICK THICKNESS TO TOP OF TOT TOP OF STEEL TYP TYPICAL
F	F/F FACE TO FACE FA FIRE ALARM FDN FOUNDATION FLAM FLAMMABLE FLEX FLEXIBLE FO FACE OF FSTNR FASTENER FT FOOT, FEET FTG FOOTING	N	NA NOT APPLICABLE NAT NATURAL NE NORTHEAST NIC NOT IN CONTRACT NU NUMBER NOM NOMINAL NTS NOT TO SCALE NW NORTHWEST	U	UL UNDERWRITERS LABORATORIES UON UNLESS OTHERWISE NOTED UTIL UTILITY
G	GA GAUGE, GAGE GALV GALVANIZED GC GENERAL CONTRACTOR GFRC GLASS FIBER REINFORCED CONCRETE GLU LAM GLUE LAMINATED GR GRADE OR GRADING GVL GRAVEL	O	OC ON CENTER OA OVERALL OD OUTSIDE DIAMETER OFOI OWNER FURNISHED-OWNER INSTALLED OPP OPPOSITE OVHD OVERHEAD OVHNG OVERHANG	V	VERT VERTICAL VIF VERIFY IN FIELD
		P	PART PARTIAL PERF PERFORATED PERMIN PERIMETER PERP PERPENDICULAR PI POINT OF INTERSECTION PRCST PRECAST PREP PREPARATION PREFAB PREFABRICATION PRKG PARKING PRJ PROJECT PROP PROPERTY PT POINT PVG PAVING PVMT PAVEMENT PWR POWER	W	W WEST W/ WITH W/O WITHOUT WPT WORKING POINT WR WATER RESISTANT WTHPRF WEATHERPROOF WTRPRF WATERPROOF

ARCHITECTURAL REFERENCE SYMBOLS



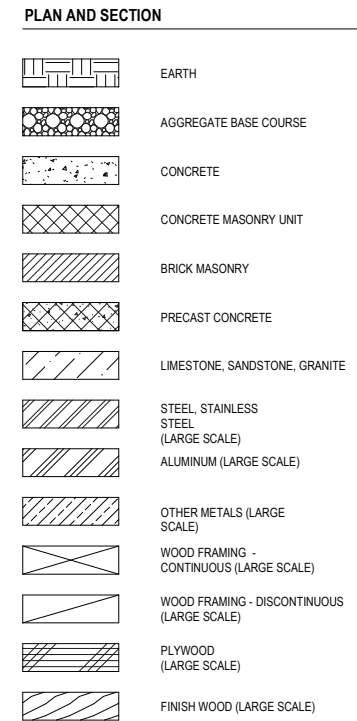
ARCHITECTURAL ASSEMBLY SYSTEM TAGS



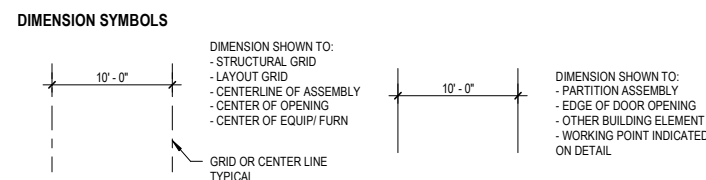
ARCHITECTURAL SYMBOL NOTES

- THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE AND DEFINE TYPICAL GRAPHIC SYMBOLS WHICH MAY TYPICALLY OCCUR ON THE ARCHITECTURAL DRAWINGS.
- ADDITIONAL SYMBOLS NOT SHOWN OR DEFINED ON THIS SHEET MAY BE USED ON THE ARCHITECTURAL DRAWINGS AND ARE TYPICALLY DEFINED ON OTHER SHEETS.
- SYMBOLS ARE NOT DRAWN TO SCALE. TO DETERMINE THE ACTUAL SIZES OF ELEMENTS REPRESENTED BY SYMBOLS, REFER TO THE SPECIFICATIONS AND OTHER SHEETS, AS MAY APPLY.

ARCHITECTURAL MATERIAL INDICATIONS



ARCHITECTURAL PLAN SYMBOLS



ARCHITECTURAL GENERAL NOTES

- THE FOLLOWING GENERAL NOTES APPLY TO ALL US.X SERIES SHEETS. FOR GENERAL NOTES APPLICABLE TO ALL SHEETS REFER TO THE "PROJECT GENERAL NOTES".
- THE ARCHITECTURAL SERIES SHEETS ARE PART OF A COMPLETE SET OF CONSTRUCTION DOCUMENTS DESCRIBING THE WORK FOR THIS PROJECT. USERS OF THESE DOCUMENTS ARE RESPONSIBLE TO REVIEW ALL CONSTRUCTION DOCUMENTS TO UNDERSTAND AND COORDINATE THE GRAPHIC AND ANNOTATED INFORMATION PROVIDED IN THESE ARCHITECTURAL SERIES SHEETS.
 - EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATIONS SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES, AND SPECIFICATIONS.

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CITY OF BURLINGTON, IOWA

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SHADE STRUCTURE - ARCHITECTURAL
ABBREVIATIONS AND SYMBOLS

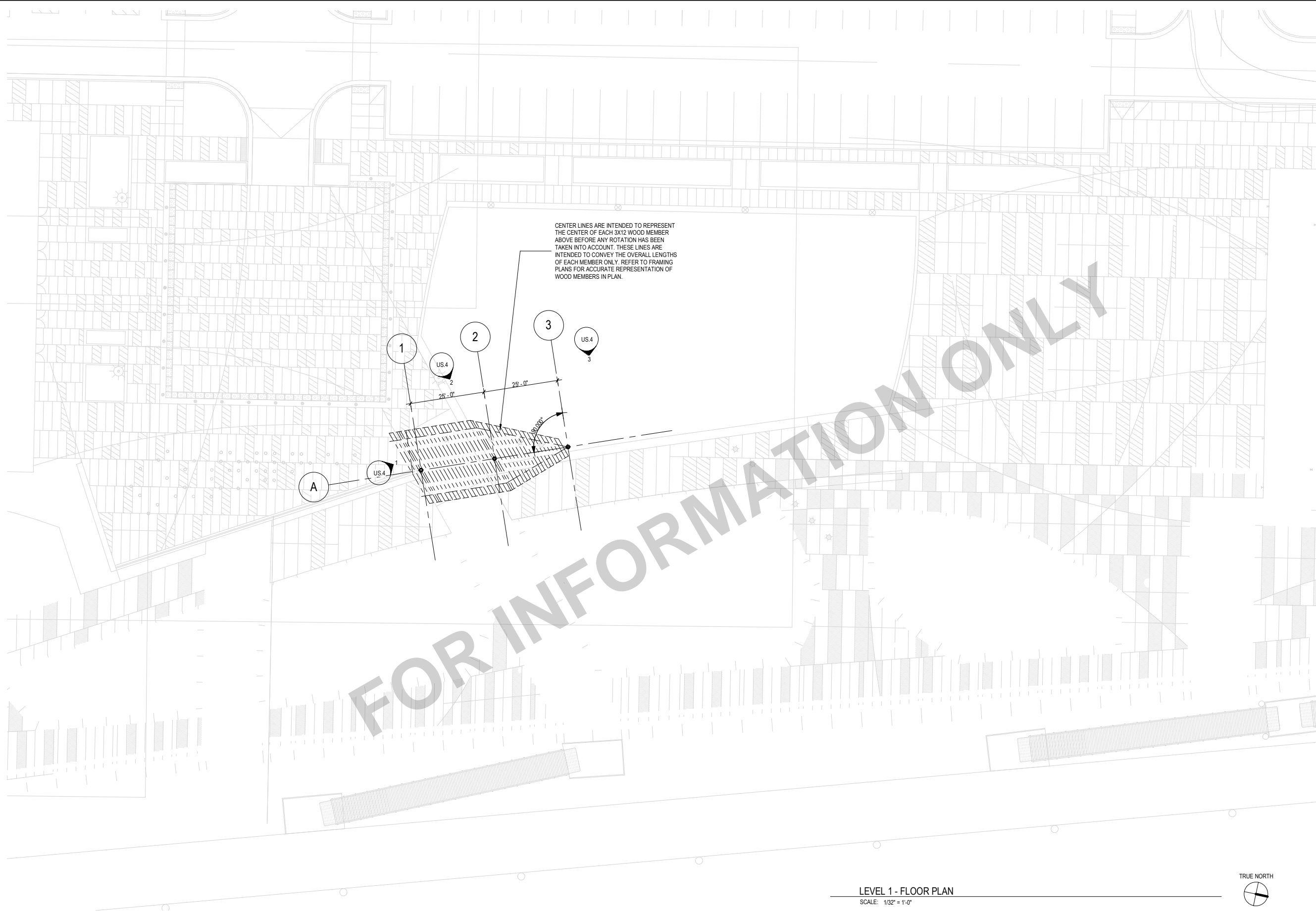
DWG. NO.

US.1

PROJECT 11682

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GRAPHIC LEGEND

GENERAL SHEET NOTES

A. REFER TO THE US.1 SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

REFERENCE KEYNOTES

○ SHEET KEYNOTES

LEVEL 1 - FLOOR PLAN
SCALE: 1/32" = 1'-0"



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DATE	REVISIONS

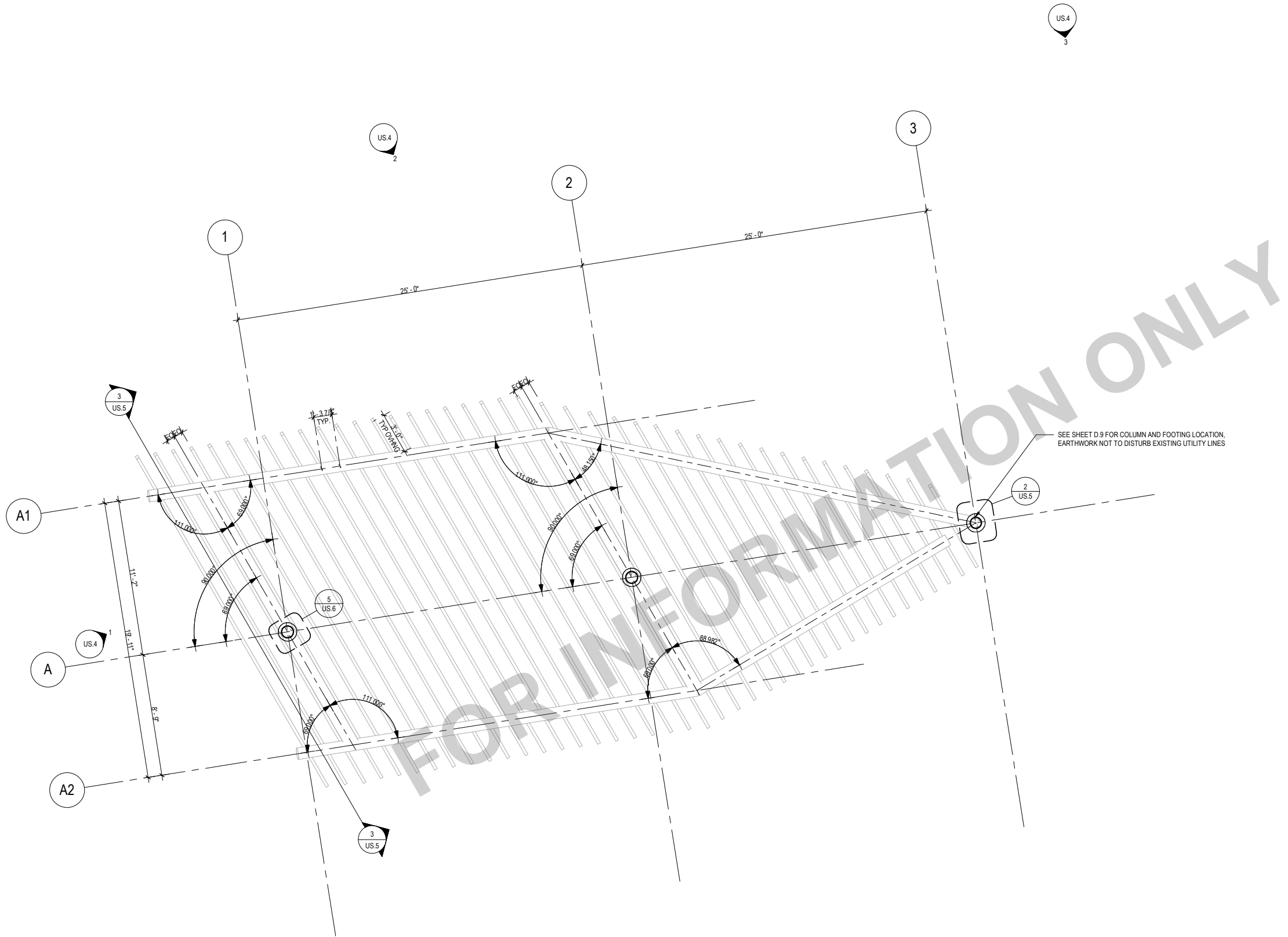


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SHADE STRUCTURE - OVERALL LAYOUT PLAN

DWG. NO.	US.2
PROJECT	11682



LEVEL 1 - FLOOR PLAN SOUTH STRUCTURE
SCALE: 1/8" = 1'-0"

SCALE	1/8" = 1'-0"
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CITY OF BURLINGTON, IOWA

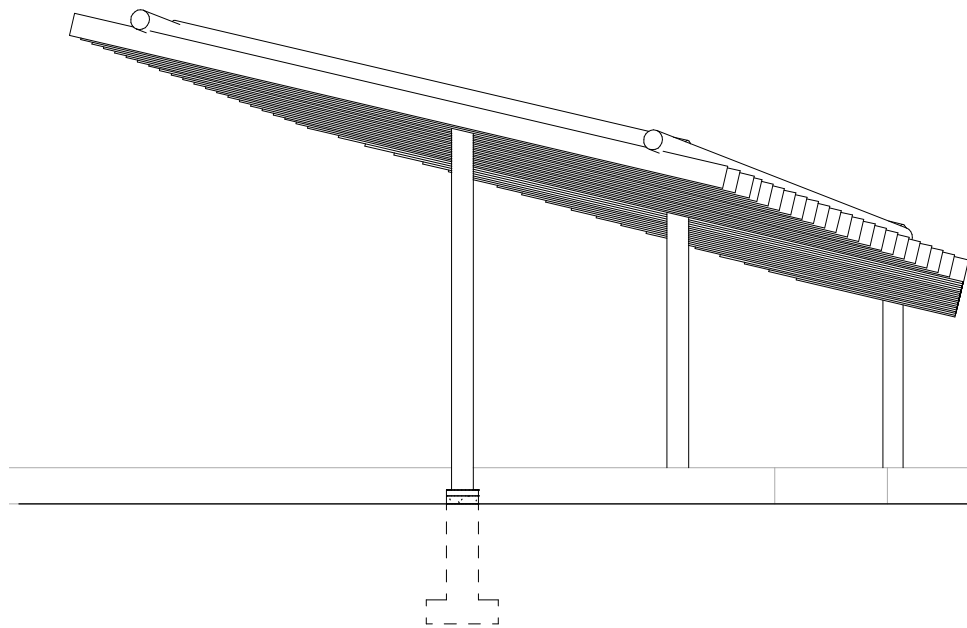
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SHADE STRUCTURE - LAYOUT, FOUNDATION,
FRAMING PLANS

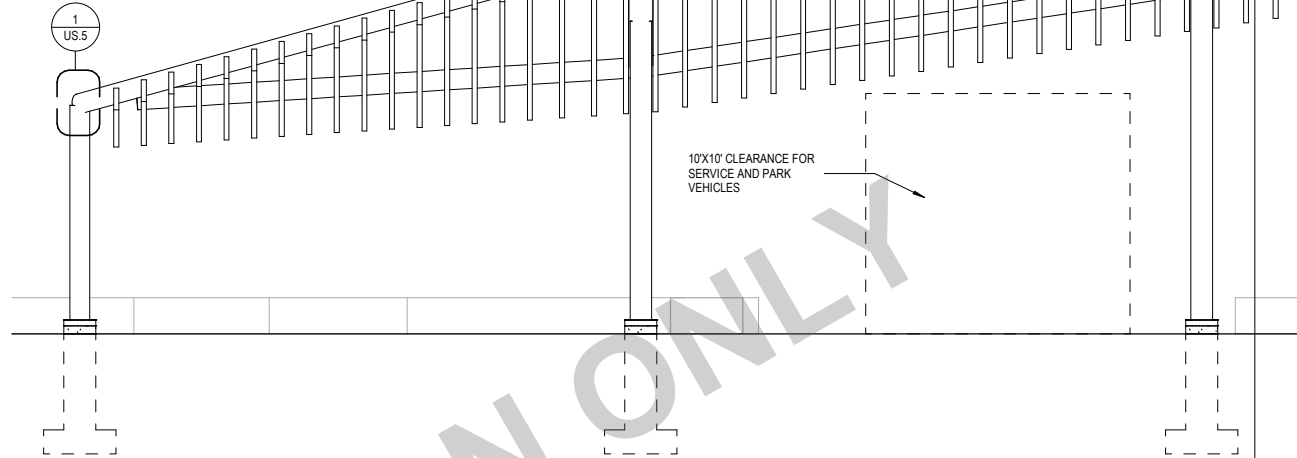
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PROJECT	11682

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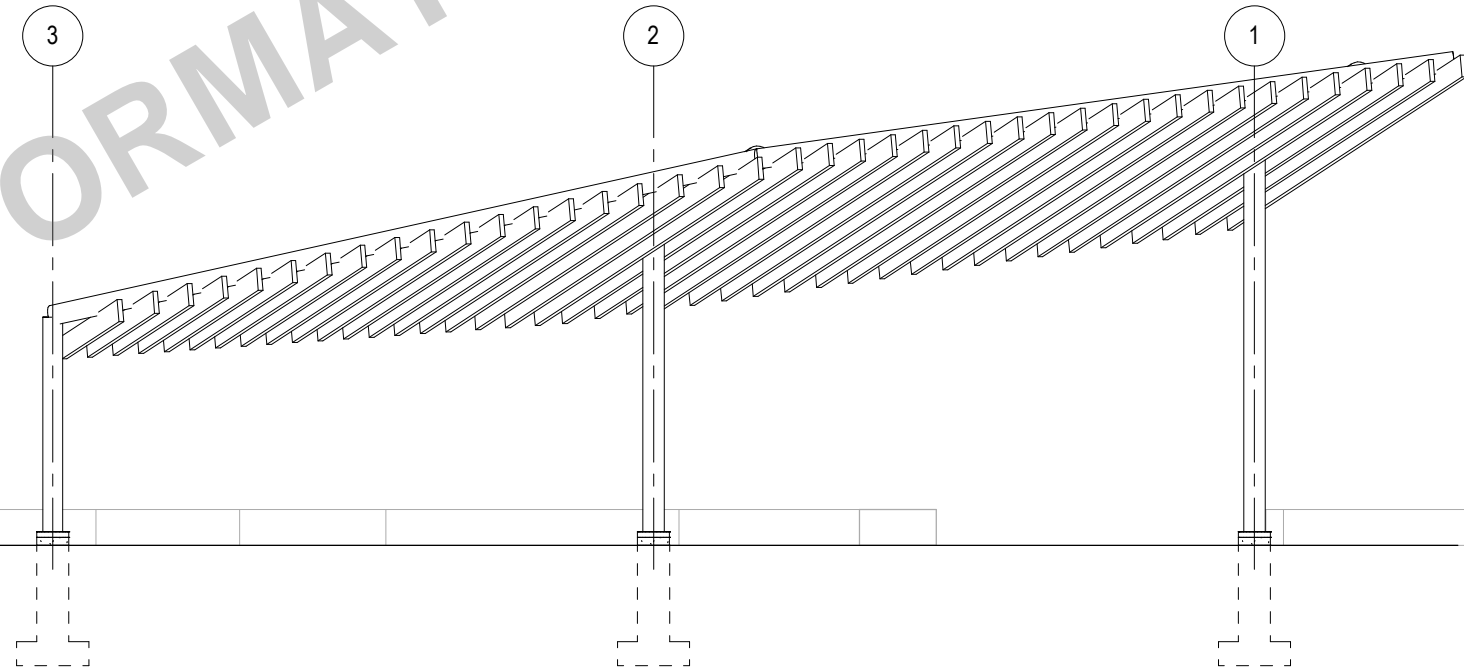
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1 SOUTH ELEVATION - SOUTH STRUCTURE
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION 1 - SOUTH STRUCTURE
SCALE: 1/8" = 1'-0"



3 EAST ELEVATION 2 - SOUTH STRUCTURE
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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- B. REFER TO AND COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
- C. REFER TO AND COORDINATE WITH CIVIL DRAWINGS FOR ALL FINISH GRADES.

REFERENCE KEYNOTES

○ SHEET KEYNOTES

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DATE	REVISIONS

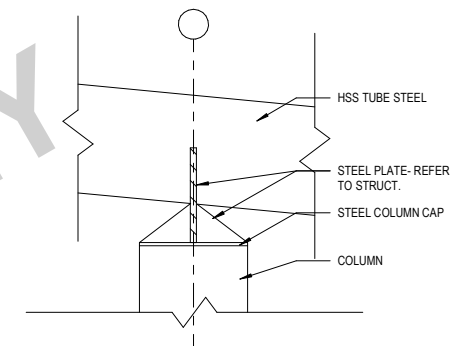
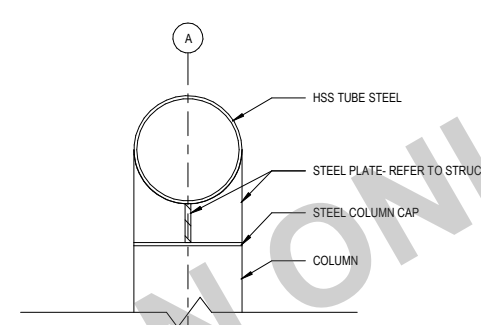
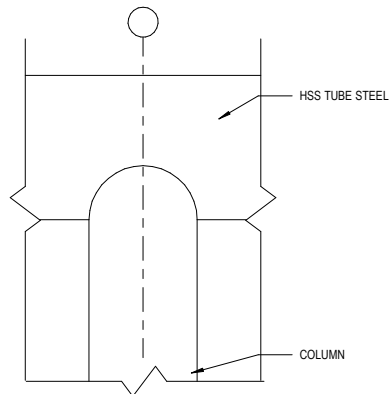
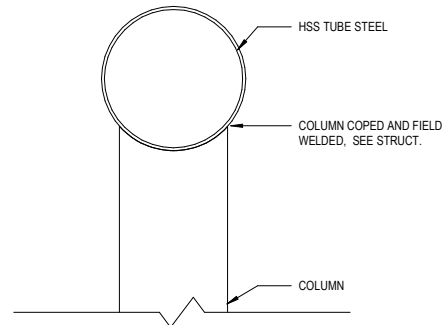
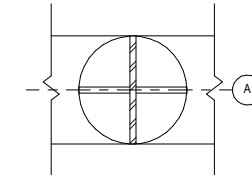
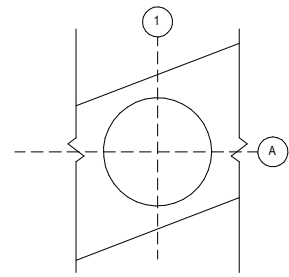


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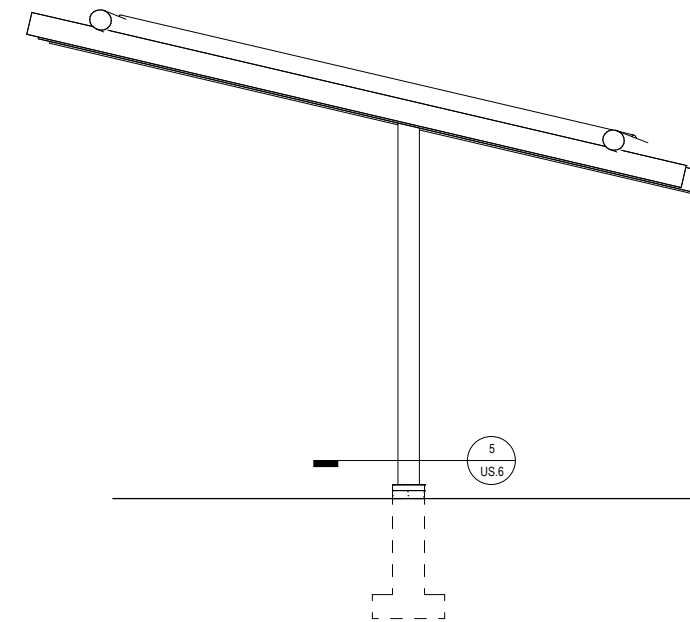
SHADE STRUCTURE - EXTERIOR ELEVATIONS

DWG. NO.	US.4
PROJECT	11682



1 SEGMENT A - CONNECTION DETAILS
SCALE: 3/4" = 1'-0"

2 SEGMENT B - CONNECTION DETAILS
SCALE: 3/4" = 1'-0"



3 SOUTH STRUCTURE SECTION
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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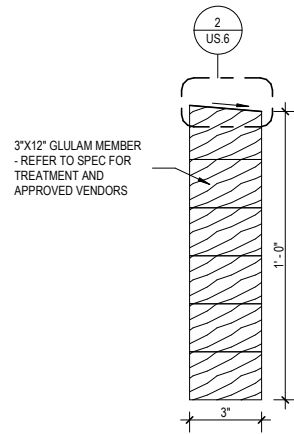
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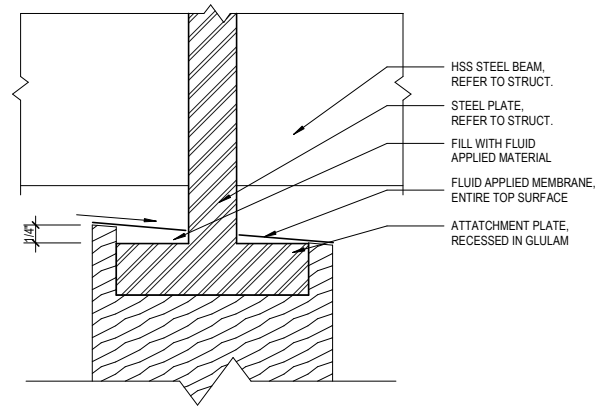
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SHADE STRUCTURE - SECTIONS, ENLARGED SECTIONS

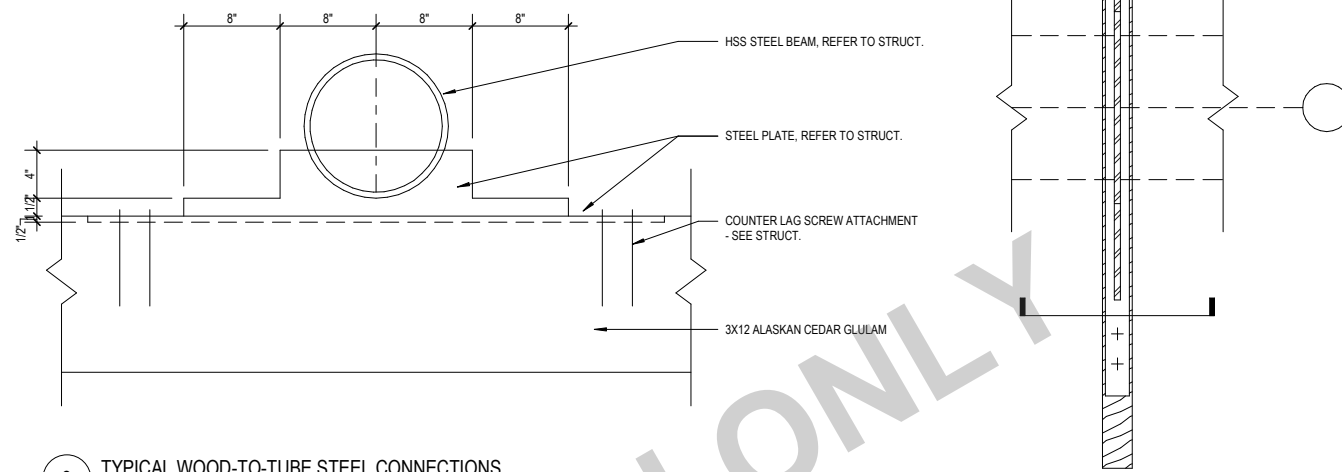
DWG. NO.	US.5
PROJECT	11682



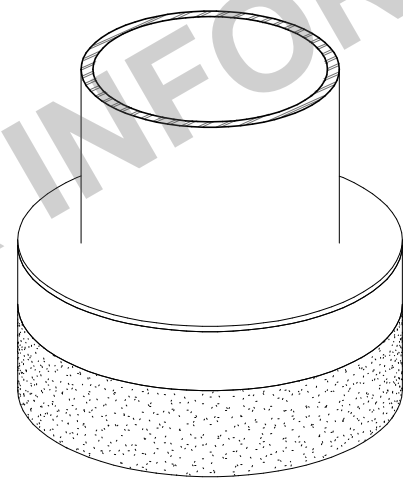
1 GLULAM SECTION
SCALE: 1 1/2" = 1'-0"



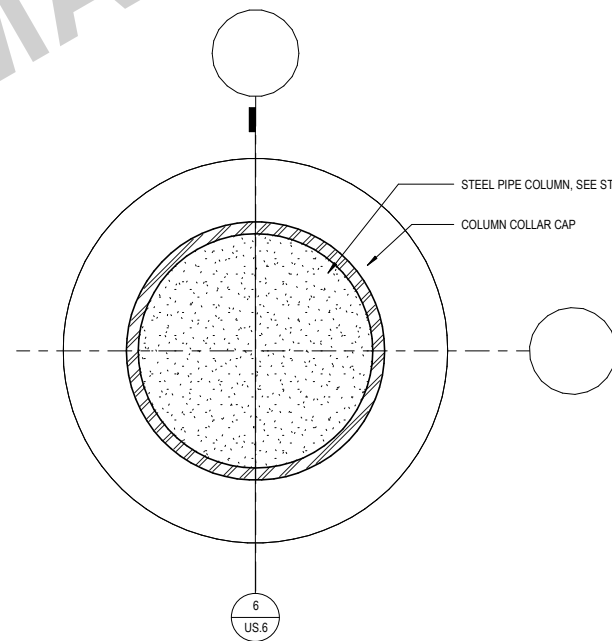
2 GLULAM SECTION DETAIL
SCALE: 6" = 1'-0"



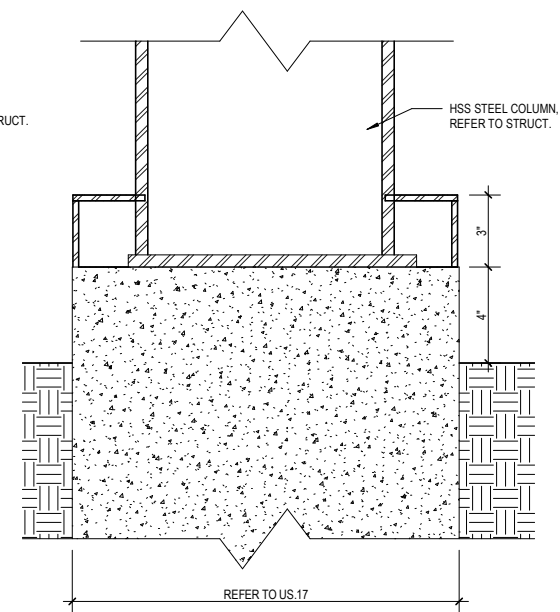
3 TYPICAL WOOD-TO-TUBE STEEL CONNECTIONS
SCALE: 3/4" = 1'-0"



4 3D COLUMN BASE
SCALE: NOT TO SCALE



5 COLUMN BASE DETAILS
SCALE: 1 1/2" = 1'-0"



6 COLUMN BASE DETAIL - SECTION
SCALE: 1 1/2" = 1'-0"

GENERAL SHEET NOTES

- A. REFER TO THE US.1 SHEET FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.
- B. THIS SHEET PROVIDES TYPICAL DETAILS FOR WATERPROOFING SYSTEMS AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
- C. ALL PENETRATING PIPES AND CONDUITS MUST BE SECURELY ATTACHED TO THE STRUCTURE PRIOR TO APPLICATION OF WATERPROOFING.

REFERENCE KEYNOTES

○ SHEET KEYNOTES

SCALE	As indicated
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SMITHGROUP	
DATE	REVISIONS

VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

1800 5th Ave • Rock Island, Illinois 61201
309-786-7590 • 309-797-0996(FAX) • 877-241-8010(WATS)

SHADE STRUCTURE - FOUNDATION, FRAMING
DETAILS

DWG. NO.	US.6
PROJECT	11682

STRUCTURAL ABBREVIATIONS

A	ANCHOR BOLT	FIN GR	FINISH GRADE	RD	ROOF DRAIN
AB	ABOVE	FT	FOOT, FEET	REF	REFERENCE
ABV	AMERICAN CONCRETE INSTITUTE	FTG	FOOTING	REINF	REINFORCE(D, ING, MENT)
ADD	ADDENDUM	FUT	FUTURE	REQD	REQUIRED
ADDL	ADDITIONAL	REV	REVISION	REV	REVISION
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	G	GAGE	S	SLIP CRITICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GA	GALVANIZED	SC	SCHEDULE
ALT	ALTERNATE	GALV	GALVANIZED IRON	SECT	SECTION
AR	ANCHOR ROD	GALVSI	GALVANIZED STEEL	SEOR	STRUCTURAL ENGINEER OF RECORD
ARCH	ARCHITECT(URAL)	GB	GRADE BEAM	SHT	SHEET(ING)
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	GND	GROUND	SIM	SIMILAR
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	GR	GRAD(E, ING)	SOG	SLAB ON GRADE
AWS	AMERICAN WELDING SOCIETY	GVL	GRAVEL	SP	SPACE(D, ING)
B		H		SP(S)	SPECIFICATION(S)
B TO B	BACK TO BACK	HORIZ	HORIZONTAL	SQ	SQUARE
BASE PL	BASE PLATE	HP	HIGH POINT	SO FT	SQUARE FOOT
BC	BOTTOM CHORD	HVAC	HEATING-VENTILATION-AIR CONDITIONING	SQ IN	SQUARE INCH
BENT PL	BENT PLATE	I		SST	STAINLESS STEEL
BET	BETWEEN	ID	INSIDE DIAMETER	ST	STREET
BLDG	BUILDING	IN	INCH	STAG	STAGGERED
BO	BOTTOM OF	INCL	INCLUDE(ING)	STD	STANDARD
BOD	BOTTOM OF METAL DECK	INFO	INFORMATION	STIFF	STIFFENER
BOF	BOTTOM OF FOOTING	INV EL	INVERT ELEVATION	STR	STRIP
BOS	BOTTOM OF STEEL	J		STL	STEEL
BOT	BOTTOM	JT	JOINT	STRUCT	STRUCTURAL
BRG	BEARING	K		SYMM	SYMMETRICAL
BRKT	BRACKET	KPL	KICK PLATE	T	TREAD
BULL	BULLETIN	L		T&B	TOP AND BOTTOM
C		LB	LONG	TC	TOP OF CURB
CHAM	CHAMFER	LG	LENGTH	TD	TRENCH DRAIN
CHKD PL	CHECKERED PLATE	LLH	LONG LEG HORIZONTAL	TEMP	TEMPORARY
CJ	CONTROL JOINT	LLV	LONG LEG VERTICAL	THK	THICK(NESS)
CL	CENTER LINE	LP	LOW POINT	THRU	THROUGH
CLR	CLEAR	LVR	LOUVER	TOC	TOP OF CONCRETE
CMU	CONCRETE MASONRY UNIT	M		TOOP	TOP OF DRILLED PIER
COL	COLUMN	MAT	MASONRY	TOPDC	TOP OF DRILLED PIER CAP
CONC	CONCRETE	MATL	MATERIAL	TOF	TOP OF FOOTING
COND	CONDITION	MAX	MAXIMUM	TOFP	TOP OF FORMED PIER
CONN	CONNECTION	MB	MACHINE BOLT	TOPC	TOP OF PILE CAP
CONSTR	CONSTRUCTION	MDO	MEDIUM DENSITY OVERLAY	TOS	TOP OF STEEL
CONSTR	CONSTRUCTION	MECH	MECHANICAL	TOW	TOP OF WALL
CONSTR	CONSTRUCTION	MEMB	MEMBRANE	TYP	TYPICAL
CONT	CONTINUOUS	MFR	MANUFACTURER	U	
CONTR	CONTRACTOR	MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
COORD	COORDINATE(ION)	MISC	MISCELLANEOUS	V	
D		MO	MASONRY OPENING	VB	VAPOR BARRIER
D	DEEP, DEPTH	N		VCJ	VERTICAL CONTROL JOINT
DB	DEFORMED BAR ANCHOR	NA	NOT APPLICABLE	VERT	VERTICAL
DEG	DEGREE	NAT	NATURAL	VIF	VERIFY IN FIELD
DEMO	DEMOLISH	NIC	NOT IN CONTRACT	VRFY	VERIFY
DET	DETAIL	NO	NUMBER	W	WIDE
DIA	DIAMETER	NOM	NOMINAL	W	WITH
DIAG	DIAGONAL	NTS	NOT TO SCALE	W/O	WITH OUT
DIM	DIMENSION	O		WCJ	WALL VERTICAL CONSTRUCTION JOINT
DIM PT	DIMENSION POINT	O TO O	OUT TO OUT	WCLJ	WALL VERTICAL CONTROL JOINT
DIST	DISTANCE	OA	OVERALL	WTRPRF	WATERPROOFING
DN	DOWN	OC	ON CENTER	WWF	WELDED WIRE FABRIC
DO	DITTO	OD	OUTSIDE DIAMETER		
DP	DRILLED PIER	OFOI	OWNER FURNISHED-OWNER INSTALLED		
DPC	DRILLED PIER CAP	OH	OPPOSITE HAND		
DR	DRAIN	OPNG	OPENING		
DT	DRAIN TILE	OPP	OPPOSITE		
DWG(S)	DRAWING(S)	P			
DWL	DOWEL	PC	PIECE		
E		PERP	PERPENDICULAR		
EA	EACH	PJTIN	PROJECTION		
EF	EACH FACE	PL	PLATE		
EL	ELEVATION	POT	POINT OF TANGENCY		
ELEC	ELECTRICAL	PP	PANEL POINT		
ELEV	ELEVATOR	PRCST	PRECAST		
EMBED	EMBEDMENT	PT	POINT		
ENGR	ENGINEER	PVMT	PAVEMENT		
EOD	EDGE OF DECK	Q			
EOS	EDGE OF SLAB	QTY	QUANTITY		
EQ	EQUAL	R			
EQ SP	EQUALLY SPACED	R	RISER		
EQPT	EQUIPMENT	RAD	RADIUS		
EQUIV	EQUIVALENT				
EW	EACH WAY				
EXP	EXPANSION				
EXP JT	EXPANSION JOINT				
EXST	EXISTING				
EXT	EXTERIOR				
F					
FD	FLOOR DRAIN				
FDN	FOUNDATION				
FIN	FINISH				
FIN FL	FINISH FLOOR				

ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED

STRUCTURAL FRAMING PLAN SYMBOLS

	COLUMN, POST AND HANGER SYMBOLS		DECK AND SLAB SYMBOLS
	STEEL COLUMN MARK GRAVITY LOAD COLUMN		BEAM NOMENCLATURE
	CONCRETE COLUMN MARK		TRUSS AND SWAY FRAME NOMENCLATURE
	POST ABOVE		MISCELLANEOUS SYMBOLS
	POST ABOVE & BELOW		
	POST BELOW		
	HANGER		
	RIGID MOMENT CONNECTION		
	SEMI-RIGID MOMENT CONNECTION		
	BRACING NOMENCLATURE AND SYMBOLS		
	VERTICAL BRACING MARK		
	LOCATION ALONG COLUMN LINE		
	HORIZONTAL BRACING ATTACHMENT JOINT		
	END PLATE CONNECTION		
	BEARING PLATE CONNECTION		
	HORIZONTAL FORCE (KIPS)		
	BEAM DESIGN MOMENT (FOOT-KIPS)		
	BEAM DESIGN REACTION (SHEAR) (KIPS)		
	BEAM DESIGN REACTION (AXIAL) (KIPS)		

GENERAL REFERENCE SYMBOLS

	BUILDING SECTION		REVISION NUMBER AND EXTENT
	WALL SECTION		SHEET KEYNOTE MARK
	EXTERIOR ELEVATION		REFERENCE KEYNOTE MARK
	DETAIL REFERENCE		MATCH LINE REFERENCES
	SECTION DETAIL REFERENCE		DRAWING TITLE SYMBOLS
	INTERIOR ELEVATION REFERENCE		VIEW NAME
	ROOM NAME AND NUMBER		VIEW NAME
	WINDOW AND LOUVER TYPE MARK		VIEW NAME
	LEVEL LINE		LAYOUT GRID LINES
	NORTH ARROW REFERENCES		NORTH ARROW REFERENCES

STRUCTURAL NOTES

- THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS. FOR GENERAL NOTES APPLICABLE TO EACH DISCIPLINE, REFER TO THE FRONT OF THE EACH DISCIPLINE DRAWINGS AS LISTED IN THE PROJECT INDEX OF DRAWINGS.
- ALL PARTS OF THE WORK - INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC. - MUST COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING REGULATIONS OF ALL FEDERAL, STATE, DISTRICT AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO A GOVERNING REGULATION.
- THE STRUCTURAL DRAWINGS ARE PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED.
- REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
- IDENTIFY AND NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT/ENGINEER.
- REFER TO DRAWINGS FROM OTHER DISCIPLINES FOR DETAILED DESIGN OF THE OTHER SITE AND BUILDING SYSTEMS, OF WHICH PORTIONS MAY BE SHOWN ON THE STRUCTURAL DRAWINGS.
- EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS.
- THE PURPOSE OF THE SYMBOLS INDICATED ON THIS SHEET IS TO ILLUSTRATE AND DEFINE THE TYPICAL GRAPHIC SYMBOLS WHICH MAY OCCUR ON THE STRUCTURAL DRAWINGS. ADDITIONAL SYMBOLS NOT SHOWN OR DEFINED ON THIS SHEET MAY BE USED ON THE STRUCTURAL DRAWINGS AND ARE TYPICALLY DEFINED ON OTHER SHEETS.
- FOR THE DEFINITIONS OF THE TERMS "FINISH FLOOR", "CEILING HEIGHT" AND "ROOF ELEVATION" AS USED ON THIS PROJECT, REFER TO THE "REFERENCE ELEVATION DEFINITIONS" NOTES ON THIS SHEET.

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CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

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SMITHGROUP
VEENSTRA & KIMM, INC.

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CITY OF BURLINGTON, IOWA	
1800 5th Ave • Rock Island, Illinois 61201	
309-786-7590 • 309-797-0996(FAX) • 877-241-8010(WATS)	

STRUCTURAL ABBREVIATIONS AND LEGEND	DWG. NO. US.7
	PROJECT 11682.000

MATERIAL INDICATIONS

PLAN AND SECTION

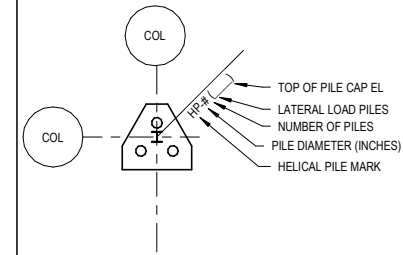
	EARTH		PLYWOOD (LARGE SCALE)
	AGGREGATE BASE COURSE		FINISH WOOD (LARGE SCALE)
	CONCRETE		EIFS INSULATION BOARD (LARGE SCALE)
	CONCRETE MASONRY UNIT		SEMI-RIGID INSULATION (LARGE SCALE)
	BRICK MASONRY		BATT INSULATION (LARGE SCALE)
	PRECAST CONCRETE		MORTAR, SAND, FIREPROOFING, STUCCO, GYPSUM BOARD
	LIMESTONE, SANDSTONE, GRANITE		TERRAZZO (LARGE SCALE)
	MARBLE		COMPOSITE BOARD (LARGE SCALE)
	STEEL, STAINLESS STEEL (LARGE SCALE)		ACOUSTIC TILE (LARGE SCALE)
	ALUMINUM (LARGE SCALE)		PROTECTION BOARD (LARGE SCALE)
	OTHER METALS (LARGE SCALE)		CERAMIC TILE (LARGE SCALE)
	WOOD FRAMING - CONTINUOUS (LARGE SCALE)		GLASS (LARGE SCALE)
	WOOD FRAMING - DISCONTINUOUS (LARGE SCALE)		

ELEVATION

	PLASTER CONCRETE		METAL SIDING (VERTICAL)
	MASONRY, METAL SIDING (HORIZONTAL)		GLASS
	GLASS BLOCK, CERAMIC TILE		

STRUCTURAL FOUNDATION PLAN SYMBOLS

FOUNDATION NOMENCLATURE AND SYMBOLS



FOUNDATION WALL NOMENCLATURE

GB-# () GRADE BEAM MARK (TOP OF GRADE BEAM EL)
 RW-# RETAINING WALL MARK

SLAB ON GRADE NOMENCLATURE AND SYMBOLS
 THICKNESS IN INCHES
 SOG-# SLAB ON GRADE MARK (SOG-5)

SOG CHANGE IN EL (+/- FROM ESTABLISHED ELEVATION)
 OR

MISCELLANEOUS SYMBOLS

- SB-# SOIL BORING MARK
- G GROUNDING DESIGNATION
- WATERSTOP
- TYPE 1 WATERSTOP (6 INCH RIBBED OR RUBBER WATERSTOP)
- TYPE 2 WATERSTOP (SELF-EXPANDING WATERSTOP)

REFERENCE ELEVATION DEFINITIONS

- THE TERM "REFERENCE" ELEVATION OR DIMENSIONS REFERS TO A NOMINAL WORK POINT. THE ACTUAL ELEVATION MAY VARY FROM THE REFERENCE POINT. REFER TO APPLICABLE DETAIL TO DETERMINE THE RELATIONSHIP BETWEEN THE ACTUAL ELEVATION OR DIMENSION AND THE STATED REFERENCE POINT.
- THE DESIGN REFERENCE ELEVATION "+0'-0" SHOWN ON THE ARCHITECTURAL DRAWINGS CORRESPONDS TO THE FINISH FLOOR ELEVATION OF THE GROUND FLOOR. REFER TO CIVIL DRAWINGS FOR ACTUAL GROUND FLOOR FINISH ELEVATION THAT CORRESPONDS TO THE DESIGN REFERENCE ELEVATION.
- "FINISH FLOOR" ELEVATIONS ARE MEASURED AT THE TOP OF CONCRETE FLOOR SLAB UNLESS OTHERWISE NOTED. APPLIED FINISHES SUCH AS RESILIENT FLOORING OR CARPET MAY RAISE THE ACTUAL FINISH SURFACE ABOVE THE REFERENCE ELEVATION PROVIDED FOR THE FINISH FLOOR.
- WHERE CONCRETE FLOOR SLAB IS DEPRESSED TO ACCOMMODATE MORTAR BEDS, SETTING BEDS, RAISED ACCESS FLOORS AND OTHER SIMILAR FLOOR ASSEMBLIES, "FINISHED FLOOR" ELEVATIONS ARE MEASURED AS IF CONCRETE DEPRESSION DID NOT OCCUR.
- ROOF ELEVATIONS ARE MEASURED TO TOP OF SURFACES AND STATED IN RELATION TO DISTANCE ABOVE THE REFERENCE ELEVATION PROVIDED FOR THE UPPER MOST FINISH FLOOR UNLESS OTHERWISE NOTED. ELEVATIONS GIVEN ARE TO TOP OF STEEL (TOS) OR BOTTOM OF DECK (BOD) UNLESS OTHERWISE NOTED.

MODULAR LAYOUT / DETAIL NUMBERING SYSTEM

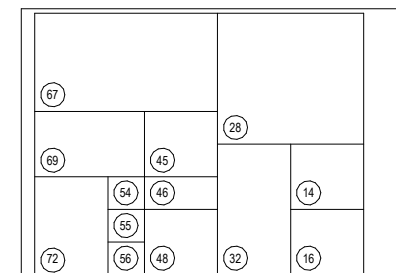
65	57	49	41	33	25	17	9	1
66	58	50	42	34	26	18	10	2
67	59	51	43	35	27	19	11	3
68	60	52	44	36	28	20	12	4
69	61	53	45	37	29	21	13	5
70	62	54	46	38	30	22	14	6
71	63	55	47	39	31	23	15	7
72	64	56	48	40	32	24	16	8

DETAIL MODULE LAYOUT

DETAILS ARE NUMBERED ACCORDING TO THEIR LOCATION ON EACH SHEET AND ARE NOT NUMBERED CONSECUTIVELY. EACH MAINTAINS THE NUMBER ASSOCIATED WITH IT.

THIS SYSTEM CAN BE APPLIED TO ANY DRAWING THAT CONTAINS MULTIPLE VIEWS. THE VIEWS ARE NUMBERED ACCORDING TO THE MODULE SYSTEM SHOWN ILLUSTRATED TO THE LEFT.

EACH DETAIL MAY OCCUPY ONE OR MORE WHOLE MODULES. THE DETAIL MODULE IS USED TO ESTABLISH THE IDENTIFYING LABEL FOR EACH DETAIL, NOT TO LIMIT THE SIZE OF THE DETAILS.



DETAIL NUMBERING EXAMPLE

THE NUMBER OF THE MODULE WHICH OCCURS IN THE LOWER LEFT CORNER OF A SINGLE MODULE OR SEVERAL MODULES GROUPED TOGETHER WILL DEFINE THE FINAL DETAIL NUMBER AS SHOWN IN THE ILLUSTRATION TO THE LEFT. ALTHOUGH THE MODULE NUMBERS OCCUR IN CONSECUTIVE ORDER, NOT ALL NUMBERS ARE NECESSARILY USED ON EACH SHEET.

SCALE	As indicated	VERIFY SCALE
DRAWN	SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED	RW	0 1"
APPROVED	RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE	04/12/2021	
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SMITHGROUP



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STRUCTURAL ABBREVIATIONS AND LEGEND

DWG. NO.

US.8

PROJECT 11682.000

DESIGN CRITERIA

- BUILDING CODES AND DESIGN STANDARDS
 INTERNATIONAL BUILDING CODE, IBC 2015.
 MINIMUM LOAD REQUIREMENTS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10.
 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14.
 STEEL CONSTRUCTION MANUAL, AISC 14TH EDITION.
 STRUCTURAL WELDING CODE ANSII/AWS D1.1/D1.1M:2010 (STEEL), D1.3/D1.3M:2008 (SHEET STEEL)
 NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH COMMENTARY, ANSII/AWC NDS-2015 WITH NDS SUPPLEMENT - DESIGN VALUES FOR WOOD CONSTRUCTION 2015 EDITION AND SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC STANDARD WITH COMMENTARY SDPWS-15.

- THE BUILDING IS ASSIGNED TO AN RISK CATEGORY OF: II
- IN ADDITION TO ACTUAL WEIGHTS OF STRUCTURAL MATERIALS (CONSTRUCTION DEAD LOAD), GRAVITY DESIGN LOADS SHALL BE AS FOLLOWS, REFER TO LOAD MAPS:

BUILDING AREA	SUPERIMPOSED VERTICAL DEAD LOADS (PSF)	VERTICAL LIVE LOADS (PSF)	CONCENTRATED LOADS (LBS)
ROOF TRELLIS	0	20	300

- ROOF SNOW LOAD IS BASED ON THE FOLLOWING:
 GROUND SNOW LOAD
 FLAT-ROOF SNOW LOAD
 SNOW EXPOSURE FACTOR
 SNOW LOAD IMPORTANCE FACTOR
 THERMAL FACTOR
 Pg = 20 PSF
 Pf = 20 PSF MIN
 Ce = 1.0
 Is = 1.0
 Ct = 1.2

- DESIGN SEISMIC LOADS ARE BASED ON THE FOLLOWING:
 SEISMIC IMPORTANCE FACTOR
 MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
 SITE CLASS
 DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
 SEISMIC DESIGN CATEGORY
 BASIC SEISMIC FORCE RESISTING SYSTEM
 RESPONSE MODIFICATION FACTOR(S)
 SEISMIC RESPONSE COEFFICIENT(S)
 DESIGN BASE SHEAR
 ANALYSIS PROCEDURE
 Ie=1.0
 Ss=0.113, S1=0.07
 D
 Sds=0.12, Sd1=0.111
 B
 R=3
 Cs=0.04
 2 KIPS
 EQUIVALENT LATERAL FORCE

- DESIGN WIND LOADS ARE BASED ON THE FOLLOWING:
 ULTIMATE DESIGN WIND SPEED
 WIND EXPOSURE CATEGORY:
 MAIN WIND FORCE RESISTING SYSTEM
 Vult = 115 MPH
 EXPOSURE C

- ATMOSPHERIC ICE LOADS
 DESIGN THICKNESS FOR ICE
 WEIGHT OF ICE
 WIND SPEED DUE TO ICE
 HORIZONTAL FORCE DUE TO ICE
 td=1.43 IN
 Wf=6.67 PSF
 Vc=40 MPH
 8.45 PSF

CAST-IN-PLACE CONCRETE

- DETAILING, FABRICATION AND PLACEMENT OF CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318 AND 315.
- CONCRETE SHALL BE NORMAL WEIGHT AND SHALL DEVELOP 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS, UNLESS OTHERWISE NOTED:
 ALL CONCRETE EXPOSED TO FREEZING AND THAWING 4500 PSI
- CONCRETE WITH CALCIUM CHLORIDE OR ANY ADMIXTURE CONTAINING CHLORIDES SHALL NOT BE USED.
- CONCRETE SHALL BE AIR-ENTRAINED.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.
- REINFORCING STEEL SPECIFICALLY NOTED TO BE SHOP OR FIELD WELDED SHALL CONFORM TO ASTM A706, GRADE 60. WELDING OF OTHER REINFORCING STEEL IS NOT PERMITTED.
- WHERE USED HOLDING WIRE FOR STIRRUPS SHALL BE TYPE A82.
- PROVIDE THE FOLLOWING MINIMUM COVER FOR REINFORCING STEEL IN CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE, UNLESS OTHERWISE NOTED:

DESCRIPTION	COVER (IN)
8a. UNFORMED SURFACES IN CONTACT WITH EARTH	3"
8b. UNFORMED SURFACES OVER MOISTURE BARRIERS	2"
8c. FORMED SURFACES EXPOSED TO EARTH OR WEATHER OR WATER PROOFING/DAMP PROOFING: #6 AND LARGER #5 AND SMALLER	2" 1 1/2"
8d. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS AND JOISTS COLUMNS	3/4" 1 1/2"
8e. BEAMS AND GIRDERS (PRIMARY REINFORCING, TIES, STIRRUPS AND SPIRALS) SHELLS AND FOLDED PLATE MEMBERS #6 AND LARGER #5 AND SMALLER	1 1/2" 3/4" 1/2"

9. REINFORCING BAR DEVELOPMENT:

BAR SIZE	28 DAY CONCRETE STRENGTH (PSI)	Ld FOR TOP BARS (IN)
#3	4500	18"
#4	4500	24"
#5	4500	30"
#6	4500	35"
#7	4500	51"
#8	4500	59"
#9	4500	66"
#10	4500	74"
#11	4500	82"

Ld FOR BOTTOM BARS (IN)

BAR SIZE	28 DAY CONCRETE STRENGTH (PSI)	Ld FOR BOTTOM BARS (IN)
#3	4500	14"
#4	4500	18"
#5	4500	23"
#6	4500	27"
#7	4500	40"
#8	4500	45"
#9	4500	51"
#10	4500	56"
#11	4500	62"

A. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW BARS. HORIZONTAL BARS IN THE WALL ARE CONSIDERED AS TOP BARS.
 B. DEVELOPMENT LENGTHS AS SCHEDULED ABOVE ARE FOR NORMAL WEIGHT CONCRETE.

- PROVIDE DEVELOPMENT LENGTH PER NOTE [15], UNLESS OTHERWISE NOTED.
- LAP SPLICE LENGTH FOR REINFORCING BARS SHALL BE 1.0 Ld FOR CLASS A SPLICE AND 1.3 Ld FOR CLASS B SPLICE. ALL SPLICES SHALL BE CLASS B, UNLESS OTHERWISE NOTED.
- LAP SPLICES IN WELDED WIRE FABRIC SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE CROSS WIRE SPACING PLUS 3".
- WELDED OR MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF BAR WIELD STRENGTH MAY BE USED IN LIEU OF LAP SPLICES.
- SHOP WELDING SHALL BE PERFORMED UNDER A CONTINUOUS, CONTROLLED PROCESS. QUALITY CONTROL TESTS SHALL BE PERFORMED ON SPECIMENS AND AVAILABLE UPON REQUEST BY THE STRUCTURAL ENGINEER.

CAST-IN-PLACE CONCRETE

- FIELD WELDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER. USE LOW HYDROGEN ELECTRODES, GRADE E70 OR E90 AS REQUIRED.
- PROVIDE DOWELS OF SAME SIZE AND SPACING FROM ADJACENT POURS, BOTH VERTICAL AND HORIZONTAL TO MATCH TYPICAL REINFORCING SHOWN. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE DOWEL LENGTH. DOWELS SHALL BE CLEANED AFTER POUR.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- NOTIFY STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ALL POURS.
- NO WOOD OR STEEL STAKES SHALL BE PERMITTED IN ANY CONCRETE POUR. SUSPEND FORMS FROM ABOVE GRADE WHERE REQUIRED.
- LOCATION OF CONSTRUCTION JOINTS AND POUR STRIPS SHALL BE AS INDICATED ON CONTRACT DOCUMENTS. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON APPROVED SHOP DRAWINGS.
- CHAMFER ALL EXPOSED EDGES TO 3/4" UNLESS NOTED OTHERWISE.
- ANCHOR RODS, DOWELS, REINFORCING STEEL INSERTS, ETC SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
- NO PIPES, DUCTS, CONDUIT, ETC SHALL PASS THROUGH FOUNDATIONS.
- CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN FOUNDATIONS.

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SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



DATE	REVISIONS



VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA
 1800 5th Ave o Rock Island, Illinois 61201
 309-786-7590 o 309-797-0996(FAX) o 877-241-8010(WATS)

STRUCTURAL GENERAL NOTES

DWG. NO.	US.9
PROJECT	11682.000

SPECIAL INSPECTIONS (PER REQUIREMENT OF CHAPTER 17 "SPECIAL INSPECTIONS AND TESTS", IBC 2015)

#	INSPECTION TASK (CODE REFERENCE)	Y/N	SCOPE OF SERVICE	FREQ	REFERENCE STANDARD
GENERAL SPECIAL INSPECTION NOTES					
1	SUBMIT FINAL REPORT OF SPECIAL INSPECTIONS INDICATING THAT THE SPECIAL INSPECTIONS HAVE BEEN PERFORMED AND ALL DISCOVERED DISCREPANCIES HAVE BEEN REPORTED AND RESOLVED	--	IN ACCORDANCE WITH CONTRACT DOCUMENTS AND BUILDING CODE	--	
2	INTERIM REPORTS SUBMITTED PRIOR TO THE FINAL REPORT FORM A BASIS FOR AND ARE CONSIDERED TO BE AN INTEGRAL PART OF THE FINAL REPORT	--		--	
3	SUBMIT RECORDS, REPORTS, CERTIFICATES ETC. FOR THE SPECIAL INSPECTIONS REQUIRED INCLUDING ITEMS THAT DO NOT REQUIRE CONTINUOUS OR PERIODIC TESTING AND/OR OBSERVATION	--		--	
4	LETTERS IN FREQUENCY COLUMN INDICATE THE FOLLOWING: C = CONTINUOUS, P = PERIODIC, S = SUBMITTAL			--	
STEEL CONSTRUCTION (1705.2)					
ST-1	REVIEW FABRICATORS WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY	Y	THIS REVIEW IS NOT REQUIRED FOR AISC CERTIFIED FABRICATORS	S	
ST-2	FABRICATOR TO SUBMIT A STATEMENT OF COMPLIANCE TO THE BUILDING CODE OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS	Y		S	
ST-3	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:	--		--	
	A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	Y		S	AISC 360 A3.3
	B. MANUFACTURERS CERTIFICATE OF COMPLIANCE REQUIRED	Y		S	AISC 360 A3.3
ST-4	INSPECTION OF HIGH-STRENGTH BOLTING:	--		--	
	A. SNUG-TIGHT JOINTS	Y		P	AISC 360 M2.5, N5.6, TABLE N5.6-1
	B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	Y		P	AISC 360 M2.5, N5.6, TABLE N5.6-2
	C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	Y		C	AISC 360 M2.5, N5.6, TABLE N5.6-2
	D. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS AFTER INSTALLATION OF BOLTS	Y		C	AISC TABLE N5.6-3
ST-5	MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:	--		--	
	A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKING TO CONFORM TO AISC 360	Y		S	APPLICABLE ASTM STANDARDS AND IBC 1706
	B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	Y		S	APPLICABLE ASTM STANDARDS AND IBC 1706
	C. MANUFACTURERS CERTIFIED TEST REPORTS	Y		S	APPLICABLE ASTM STANDARDS AND IBC 1706
ST-6	MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	--		--	
	A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	Y		S	AISC 360 A3.5, AWS D1.1
	B. MANUFACTURERS CERTIFICATE OF COMPLIANCE REQUIRED	Y		S	
ST-7	VERIFY WELDER CERTIFICATION FOR ALL FIELD WELDERS WHO WILL PERFORM FIELD WELDING	Y		S	AWS D1.1
ST-8	INSPECTION OF WELDING:	--	IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND CONTRACT DOCUMENTS	--	
	A. STRUCTURAL STEEL:	--		--	
	1. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	Y		C	AWS D1.1; IBC 1705.2.1
	2. MULTI PASS FILLET WELDS	Y		C	AWS D1.1; IBC 1705.2.1
	3. SINGLE PASS FILLET WELDS > 5/16"	Y		C	AWS D1.1; IBC 1705.2.1
	4. PLUG AND SLOT WELDS	Y		C	AWS D1.1; IBC 1705.2.1
	5. SINGLE PASS FILLET WELDS <= 5/16"	Y		P	AWS D1.1; IBC 1705.2.1
ST-9	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:	--	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED SHOP DRAWINGS AND CONTRACT DOCUMENTS	--	
	A. DETAILS SUCH AS BRACING AND STIFFENING	Y		P	
	B. MEMBER LOCATIONS	Y		P	
	C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	Y		P	
CONCRETE CONSTRUCTION (1705.3)					
C-1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	Y		P	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3, IBC 1908.4
C-2	REINFORCING BAR WELDING	--		--	
	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	Y	REVIEW AS PER AWS AND APPROVED SHOP DRAWINGS AND CONTRACT DOCUMENTS	P	AWS D1.4; ACI 318 26.6.4
	B. INSPECT SINGLE-PASS FILLET WELDS <= 5/16"	Y		P	AWS D1.4; ACI 318 26.6.4
	C. INSPECT ALL OTHER WELDS	Y		C	AWS D1.4; ACI 318 26.6.4
C-3	INSPECT ANCHORS, BOLTS, AND ANCHOR RODS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	Y	VERIFY SIZE, LOCATIONS, SPACING, ORIENTATION, COVER, & SPLICING CONFORM TO APPROVED SHOP DRAWINGS AND CONTRACT DOCUMENTS	P	ACI 318 17.8.2
C-4	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE	--		--	
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	Y	VERIFY SIZE, LOCATIONS, SPACING, ORIENTATION, COVER, & SPLICING CONFORM TO APPROVED SHOP DRAWINGS AND CONTRACT DOCUMENTS	C	ACI 318 17.8.2.4
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN C-4.A	Y	VERIFY SIZE, LOCATIONS, SPACING, ORIENTATION, COVER, & SPLICING CONFORM TO APPROVED SHOP DRAWINGS AND CONTRACT DOCUMENTS	P	ACI 318 17.8.2
C-5	VERIFY USE OF REQUIRED DESIGN MIX	Y		P	ACI 318 Ch 19, 26.4.3, 26.4.4; IBC 1904.1, 1904.2, 1908.2, 1908.3
C-6	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	Y		C	ASTM C172, ASTM C31; ACI 318 26.4, 26.12, IBC 1908.10
C-7	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	Y	VERIFY PLACEMENT, FINISHING HOT/COLD WEATHER REQUIREMENTS AND CONSOLIDATIONS	C	ACI 318 26.5; IBC 1908.6, 1908.7, 1908.8
C-8	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	Y	VERIFY CURING REQUIREMENTS	P	ACI 318 26.5.3-26.5.5; IBC 1908.9
C-9	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	N		P	ACI 318 26.11.1.2(b)

SPECIAL INSPECTIONS (PER REQUIREMENT OF CHAPTER 17 "SPECIAL INSPECTIONS AND TESTS", IBC 2015)

#	INSPECTION TASK (CODE REFERENCE)	Y/N	SCOPE OF SERVICE	FREQ	REFERENCE STANDARD
WOOD CONSTRUCTION (1705.5)					
W-0	INSPECTION OF FABRICATION OF WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES AND INSPECTION OF SITE-BUILT ASSEMBLIES	N	VERIFY QC PROCEDURES ARE COMPLIANT AND CURRENT AND IN ACCORDANCE WITH 1704.2.5	--	
W-3	REVIEW FABRICATORS WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY	N	THIS REVIEW IS NOT REQUIRED FOR FABRICATORS THAT PARTICIPATE IN THE TPI QUALITY ASSURANCE PROGRAM AND MAINTAIN A COPY OF THE QAP-90 MANUAL; SUBMIT CERTIFICATE AND STAMP TRUSSES AS TPI CERTIFIED	S	
W-4	FABRICATOR TO SUBMIT A STATEMENT OF COMPLIANCE TO THE BUILDING CODE OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS	N		S	
SOILS (1705.6)					
SO-0	SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS	Y	IN ACCORDANCE WITH APPROVED GEOTECHNICAL REPORT AND CONTRACT DOCUMENTS	--	
SO-2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	Y		P	
SO-3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	Y		P	
SO-4	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	Y		C	
SO-5	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	Y		P	
HELICAL PILE FOUNDATIONS (1705.9)					
HPP-0	INSTALLATION AND TESTING OF DRIVEN DEEP FOUNDATION ELEMENTS	Y	IN ACCORDANCE WITH APPROVED GEOTECHNICAL REPORT AND CONTRACT DOCUMENTS	--	
HPP-1	INSTALLATION OF HELICAL PILE FOUNDATIONS	Y		--	
	A. OBSERVE THE HELICAL PILE LOAD TEST AND RECORD ALL DOCUMENTATION REQUIRED BY CONTRACT DOCUMENT	Y		C	
	B. OBSERVE INSTALLATION OF ALL HELICAL PILES AND SUBMIT RECORDS, INCLUDING EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, FINAL INSTALLATION TORQUE AND OTHER PERTINENT INSTALLATION DATA REQUIRED	Y		C	

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SCALE	VERIFY SCALE
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CHECKED RW	0 1"
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

DATE	REVISIONS

SMITHGROUP

V&K

VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

1800 5th Ave o Rock Island, Illinois 61201
 309-786-7590 o 309-797-0996(FAX) o 877-241-8010(WATS)

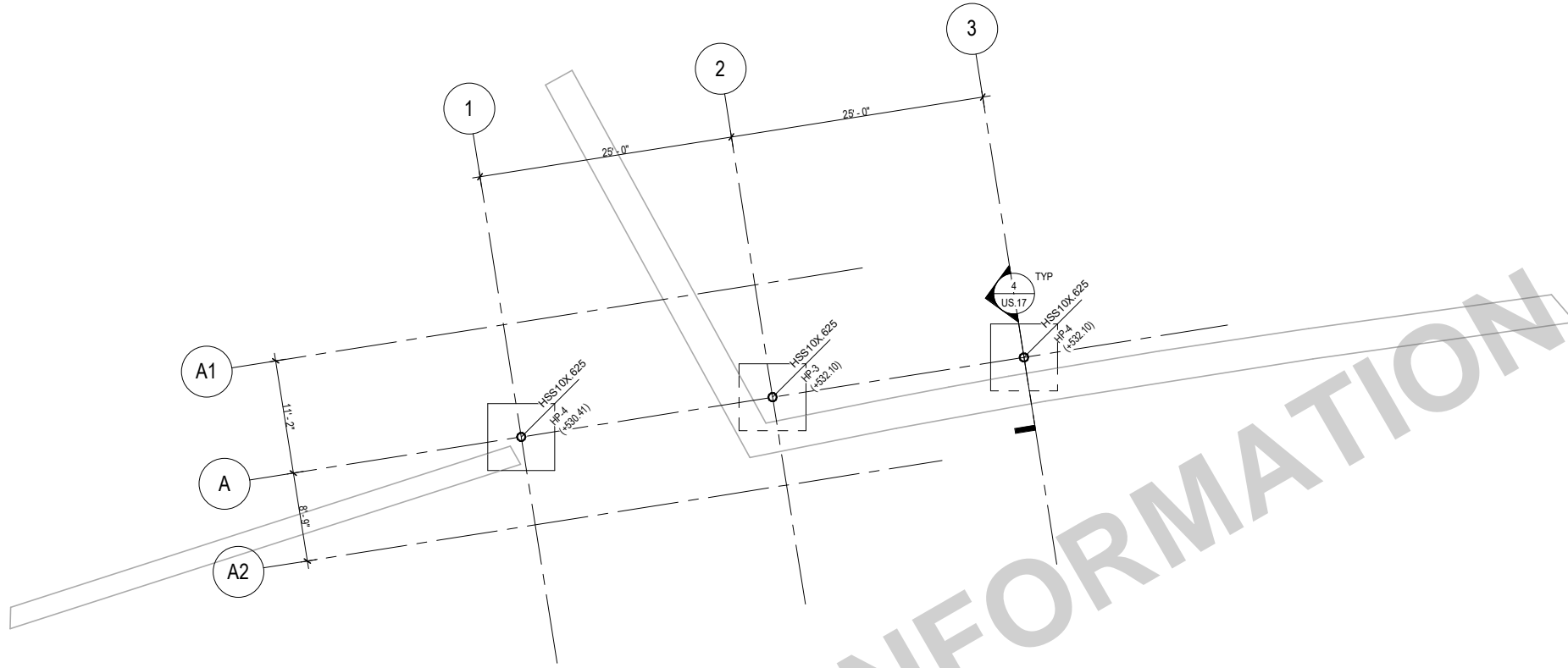
SPECIAL INSPECTION SCHEDULE

DWG. NO.
US.11

PROJECT 11682.000

GENERAL SHEET NOTES

1. ESTABLISHED ELEVATIONS:
 - A. TOP OF PILE CAP.....SEE PLAN
 - B. ELEVATIONS AS INDICATED ABOVE UNLESS OTHERWISE NOTED
2. ALL STEEL IS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL - SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. ALL STEEL SHALL BE GALVANIZED.
4. FIELD LOCATE EXISTING UNDERGROUND UTILITIES, PIPING, ETC. PRIOR TO PLACEMENT OF FOUNDATIONS. NOTIFY ENGINEER OF ANY INTERFERENCES WHICH MIGHT REQUIRE RELOCATION AND/OR MODIFICATION OF FOUNDATIONS.
5. WORK POINT ELEVATIONS ARE RELATIVE TO 0'-0" = CIVIL ELEVATION



NOTE:
 1. WORK POINT ELEVATIONS ARE RELATIVE TO 0'-0" = CIVIL ELEVATION 533.72.
 2. SEE US.17 FOR PILE FOUNDATION DETAILS

1 LEVEL 1 FOUNDATION AND FRAMING PLAN
 SCALE: 1/16" = 1'-0"

SCALE	As indicated
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SMITHGROUP

DATE	REVISIONS

V&K
VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
 DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
 CITY OF BURLINGTON, IOWA

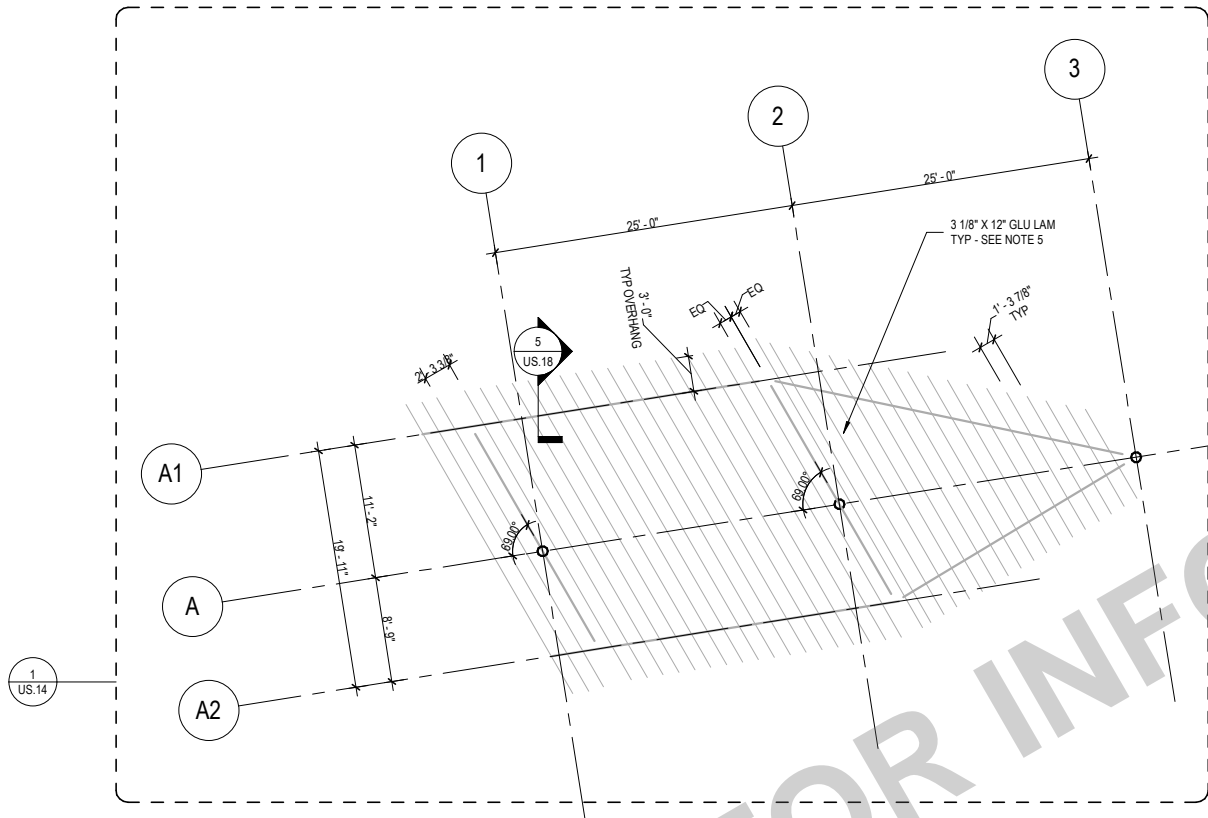
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 309-786-7590 o 309-797-0996(FAX) o 877-241-8010(WATS)

FOUNDATION PLAN

DWG. NO.	US.12
PROJECT	11682.000

GENERAL SHEET NOTES

1. BEAMS SHALL BE EQUALLY SPACED WITHIN A BAY UNLESS OTHERWISE NOTED.
2. ALL STEEL IS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL - SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. ALL STEEL SHALL BE GALVANIZED.
4. COORDINATE GLU-LAM SPACING WITH ARCHITECTURAL DRAWINGS.



FOR INFORMATION ONLY

1 ROOF FRAMING LEVEL
SCALE: 1/16" = 1'-0"

NOTE:
WORK POINT ELEVATIONS SHOWN ARE RELATIVE TO
0'-0" = CIVIL ELEVATION 533.72.

SCALE	As indicated
DRAWN	SKH
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APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
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SMITHGROUP	
DATE	REVISIONS



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CITY OF BURLINGTON, IOWA

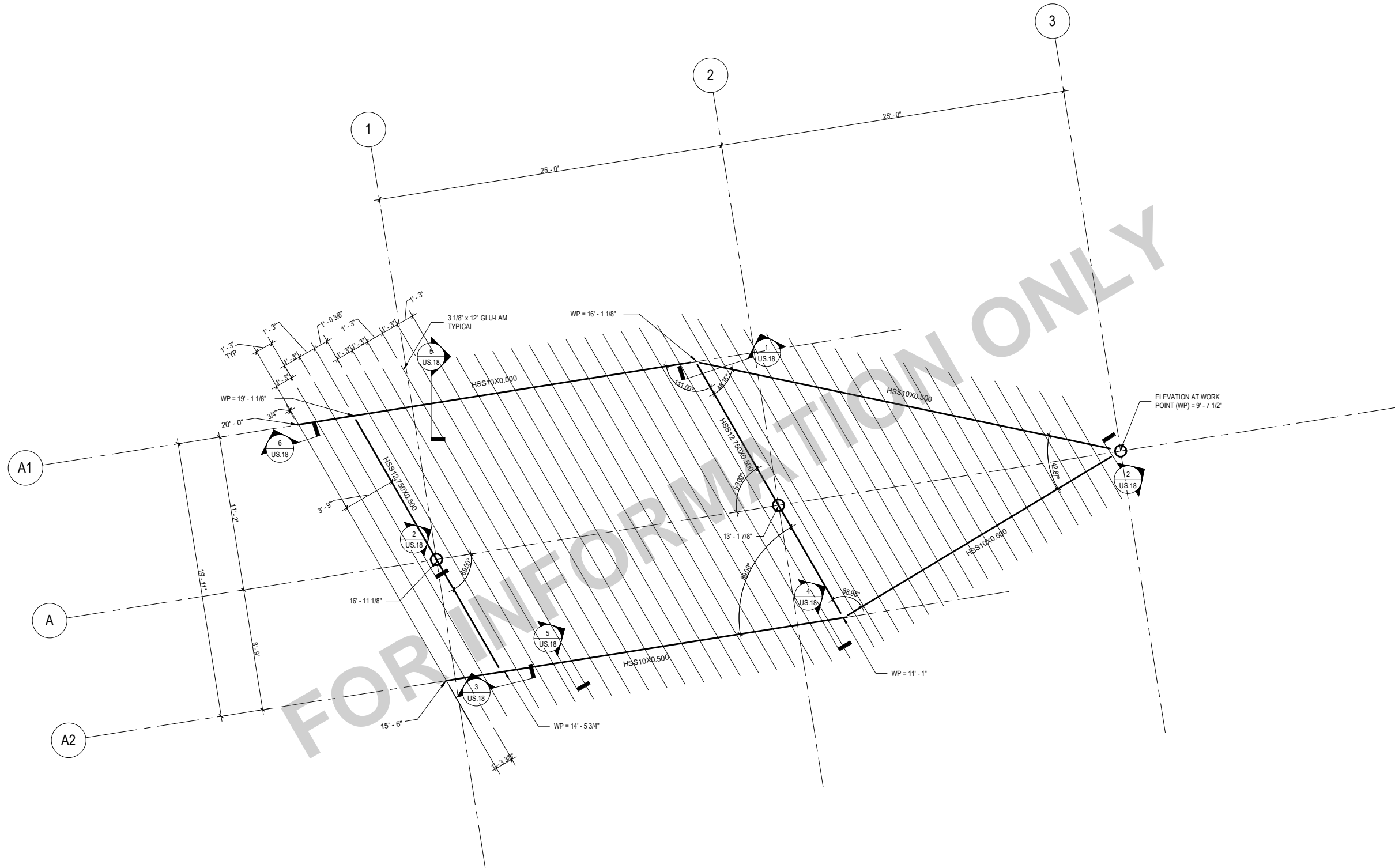
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TRELLIS STRUCTURE FRAMING PLAN

DWG. NO.	US.13
PROJECT	11682.000

GENERAL SHEET NOTES

1. ESTABLISHED ELEVATIONS:
 - A. WORK POINT ELEVATIONS NOTED AS "WP" ARE TO THE CENTERLINE OF INTERSECTION HSS SHAPES UON.
2. BEAMS SHALL BE EQUALLY SPACED WITHIN A BAY UNLESS OTHERWISE NOTED.
3. ALL STEEL IS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL - SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
4. ALL STEEL SHALL BE GALVANIZED.
5. WORK POINT ELEVATIONS SHOWN ARE RELATIVE TO 0'-0" = CIVIL ELEVATION 533.72.
6. COORDINATE GLU-LAM SPACING WITH ARCHITECTURAL DRAWINGS.



1 ROOF FRAMING LEVEL
SCALE: 1/8" = 1'-0"

SCALE	As indicated
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CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

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SMITHGROUP	
DATE	REVISIONS

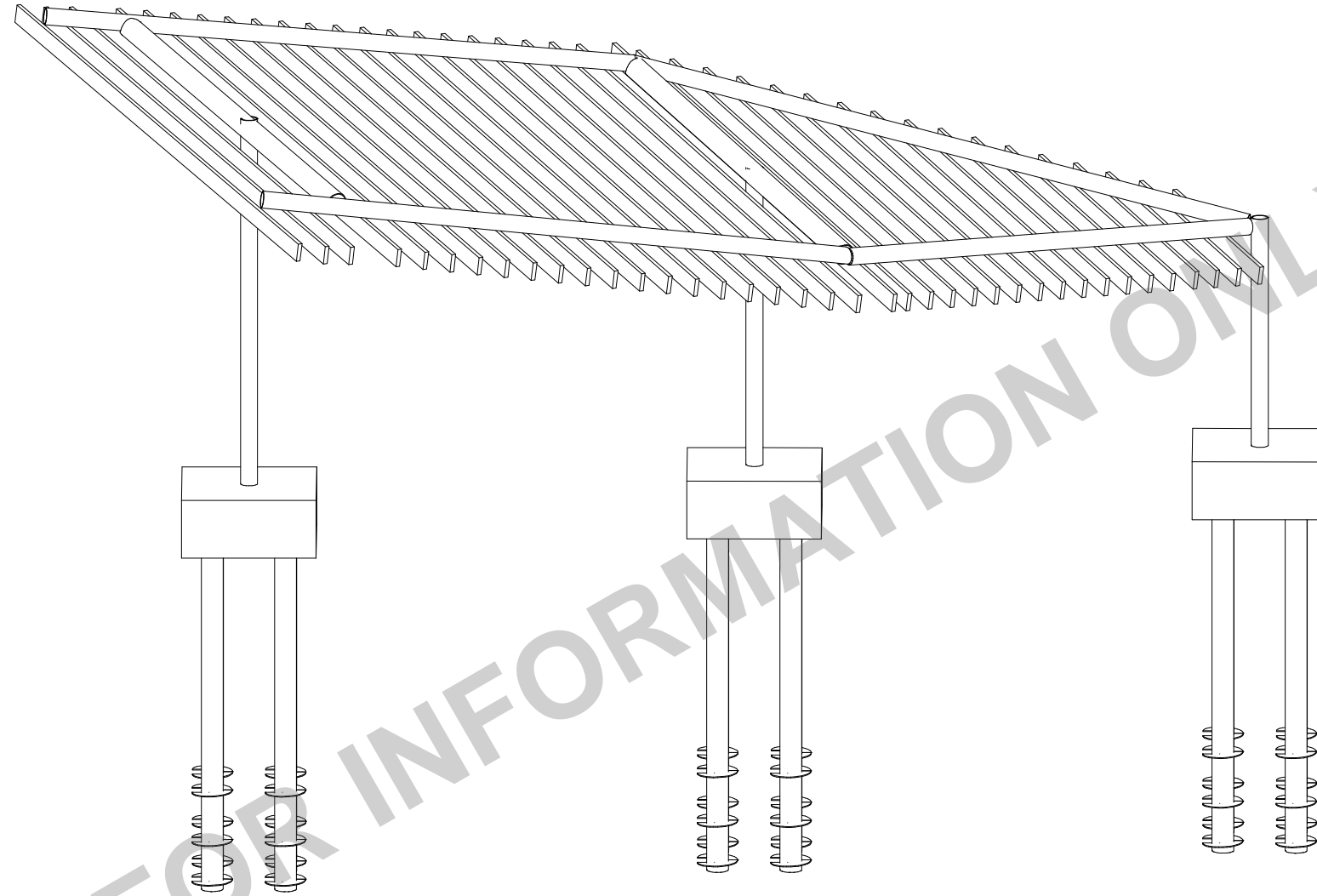


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CITY OF BURLINGTON, IOWA

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PARTIAL FRAMING PLAN


DWG. NO.	US.14
PROJECT	11682.000



FOR INFORMATION ONLY

1 3D VIEW - FULL STRUCTURE
SCALE: NOT TO SCALE

SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

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SMITHGROUP	
DATE	REVISIONS

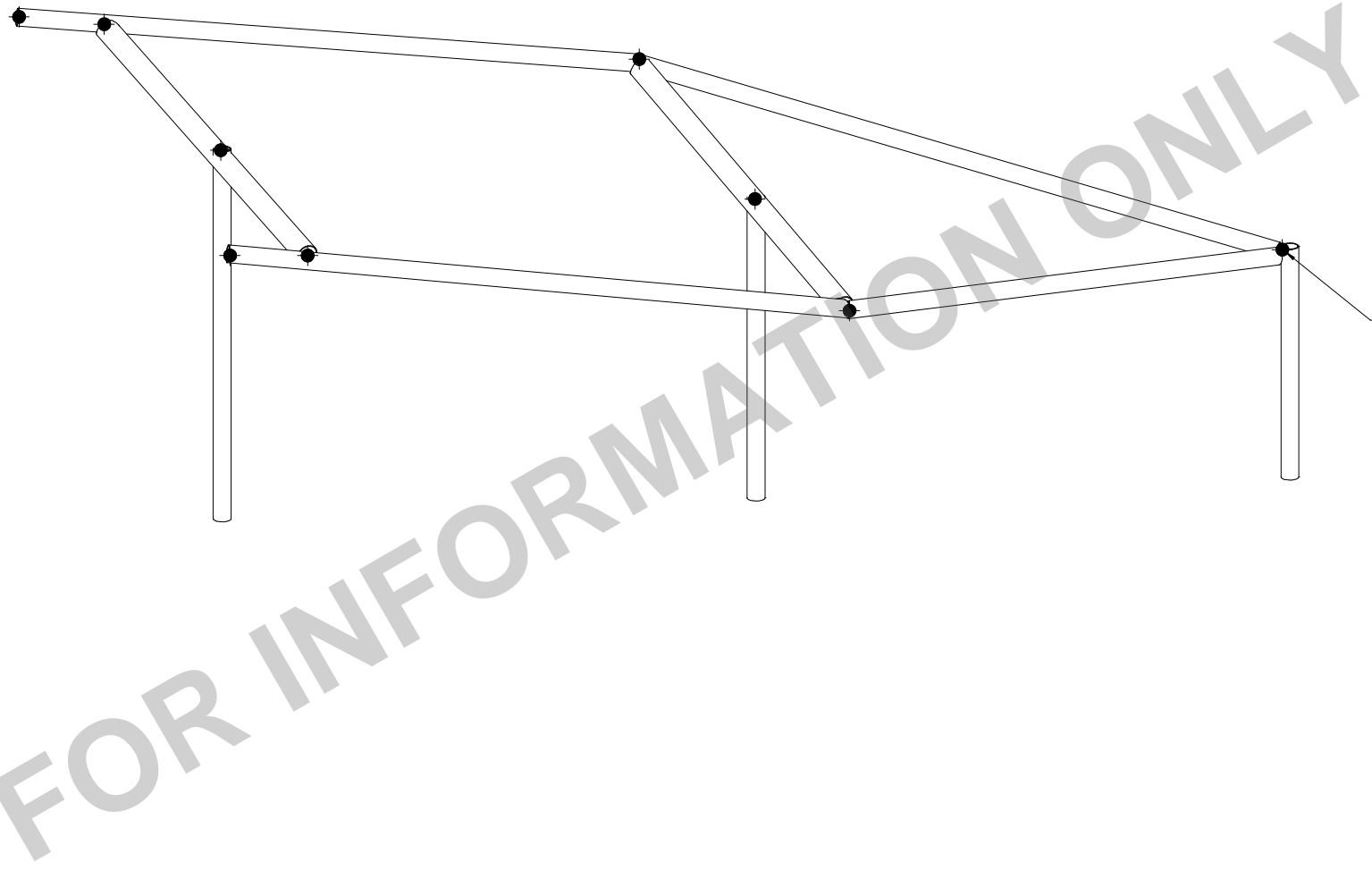


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 CITY OF BURLINGTON, IOWA

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3D FULL FRAMING

DWG. NO.	US.15
PROJECT	11682.000



POTENTIAL FIELD SPLICE LOCATION
SEE DETAIL 1/US.18
FINAL NUMBER AND LOCATION TO BE
DETERMINED BY FABRICATOR AND
ERECTOR WITH FINAL APPROVAL BY
ENGINEER/ARCHITECT

1 3D VIEW - STEEL ONLY
SCALE: NOT TO SCALE

SCALE	
DRAWN	SKH
CHECKED	RW
APPROVED	RW
DATE	04/12/2021
ISSUED FOR	BID DOCUMENTS

VERIFY SCALE
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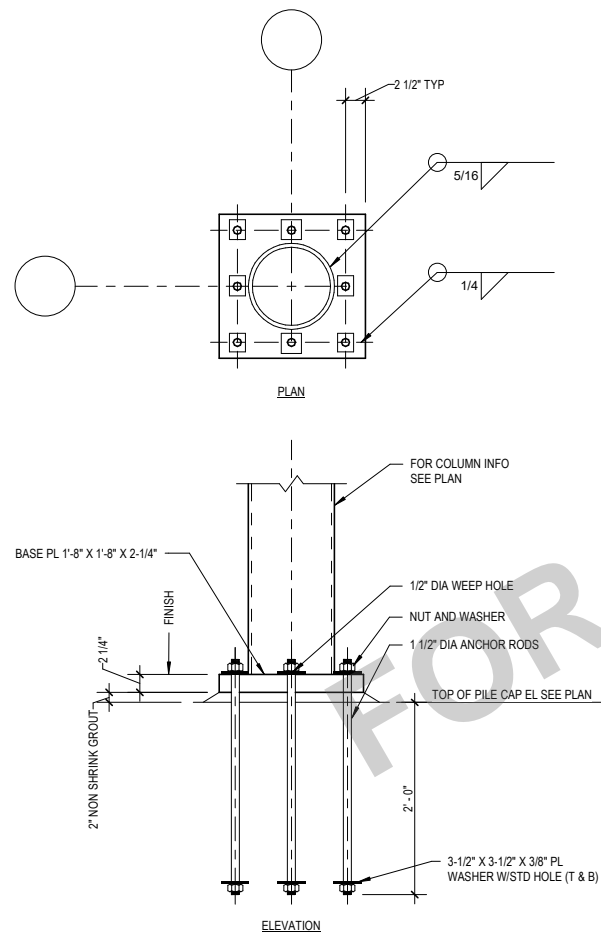
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DATE	REVISIONS



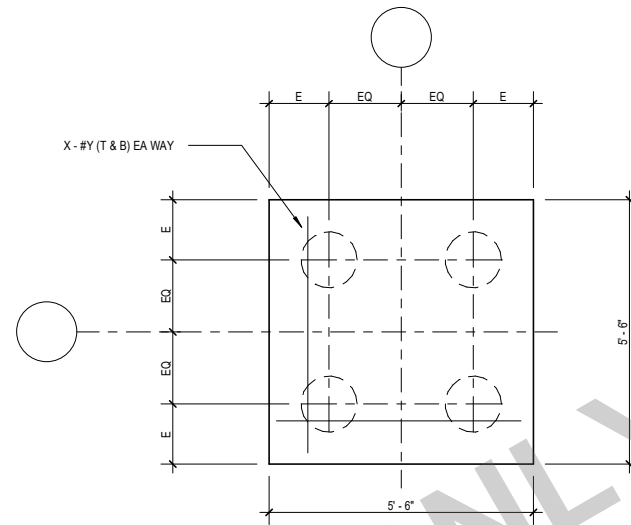
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3D HSS FRAME

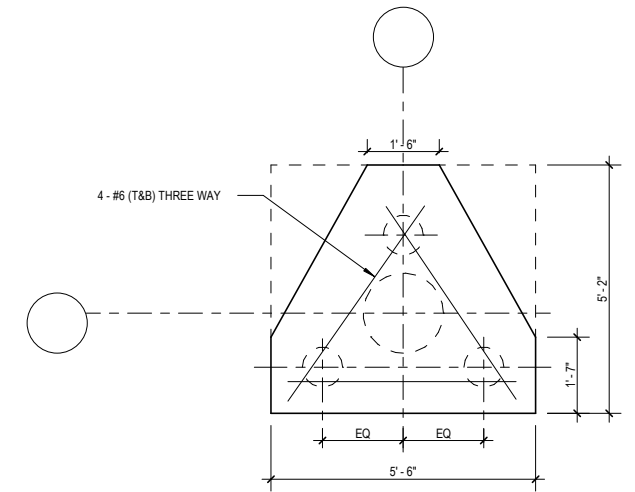
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PROJECT	11682.000



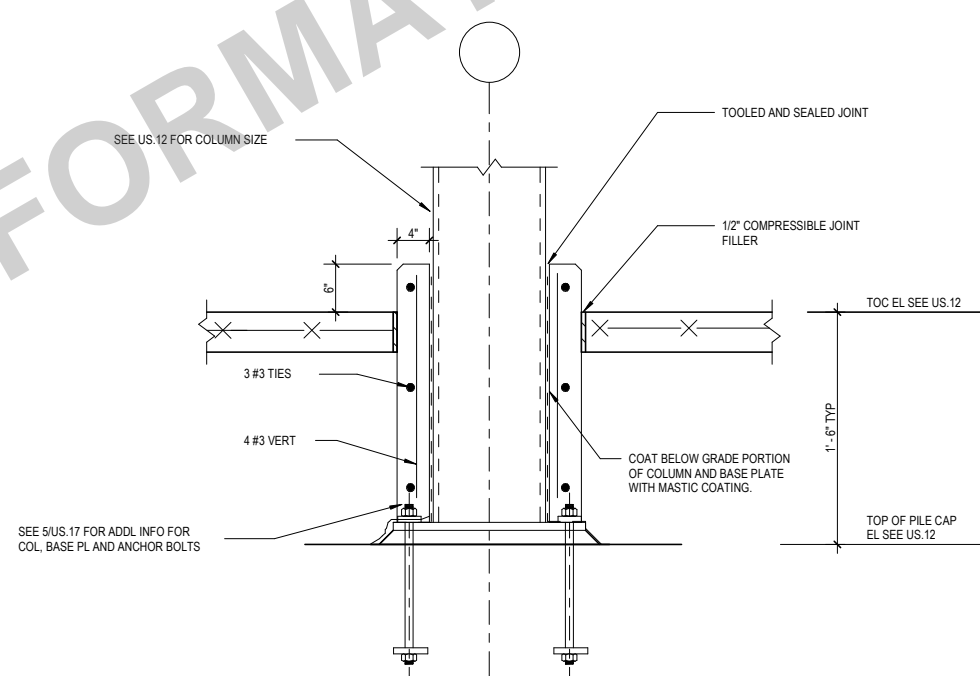
5 TYPICAL BASE PLATE DETAIL TYPE V - ROUND HSS COLUMNS
SCALE: 1/2" = 1'-0"



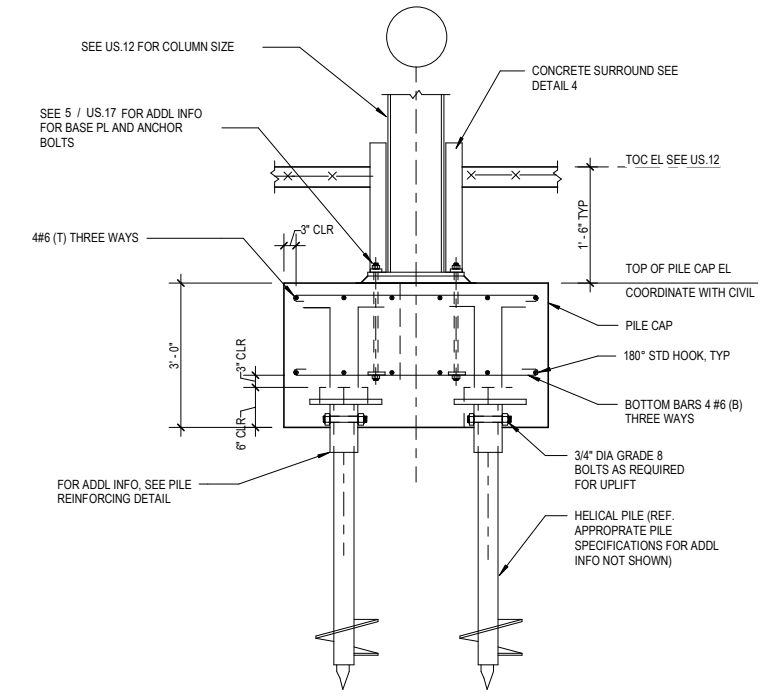
3 TYPICAL PILE CAP DETAIL 4 PILES
SCALE: 1/4" = 1'-0"



1 TYPICAL PILE CAP DETAIL 3 PILES
SCALE: 1/4" = 1'-0"



4 TYPICAL PILE COLUMN SURROUND
SCALE: 1/2" = 1'-0" REF: 1 / US.12



2 TYPICAL PILE CAP DETAIL
SCALE: 1/4" = 1'-0"

SCALE	As indicated	VERIFY SCALE
DRAWN	SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
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SMITHGROUP	
DATE	REVISIONS

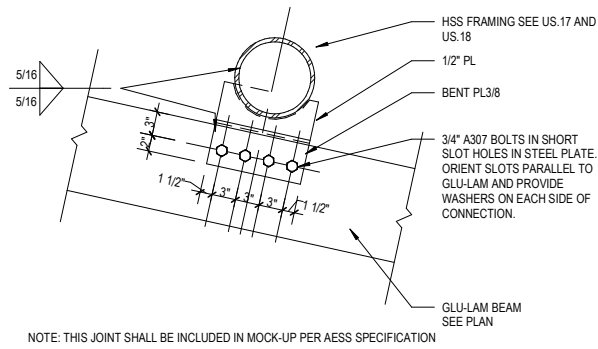


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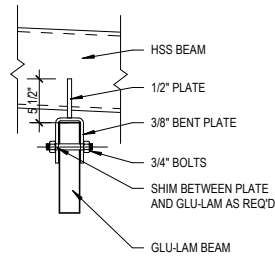
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309-786-7590 • 309-797-0996(FAX) • 877-241-8010(WATS)

SECTIONS AND DETAILS

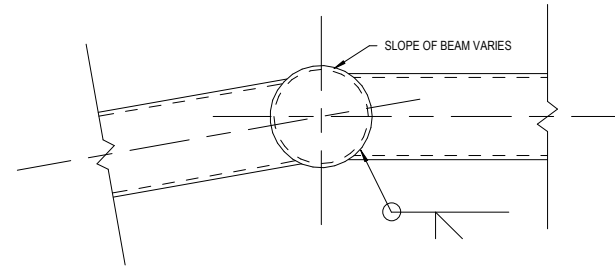
DWG. NO.	US.17
PROJECT	11682.000



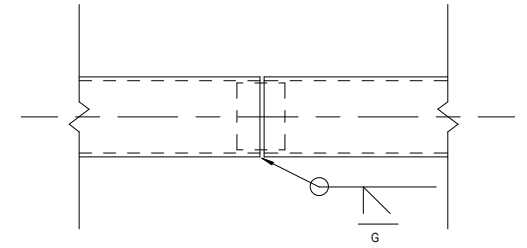
5 GLU-LAM CONNECTION
SCALE: 1/2" = 1'-0"



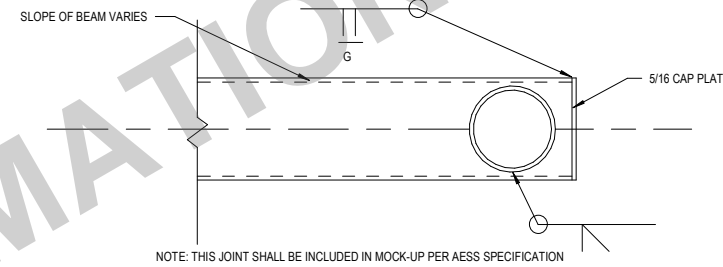
6 GLU-LAM CONNECTION SECTION
SCALE: 1/2" = 1'-0"



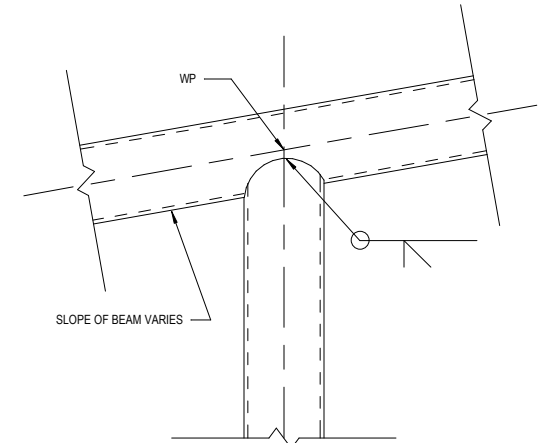
3 TYPICAL BEAM TO CROSS BEAM CONNECTION
SCALE: 1/2" = 1'-0"



1 TYPICAL BEAM TO BEAM CONNECTION
SCALE: 1/2" = 1'-0"



4 TYPICAL BEAM TO CROSS BEAM CONNECTION
SCALE: 1/2" = 1'-0"



2 TYPICAL BEAM TO COLUMN CONNECTION
SCALE: 1/2" = 1'-0"

FOR INFORMATION ONLY

NOTE:
ALL WELDS AT HSS CONNECTIONS SHALL HAVE AN EFFECTIVE SIZE EQUAL TO THE WALL THICKNESS OF THE HSS UNLESS OTHERWISE NOTED. PREQUALIFIED PJP T-, Y-, AND K-TUBULAR CONNECTIONS PER TABLE 8-2 OF AISC MANUAL ARE ACCEPTABLE

SCALE	1" = 1'-0"	VERIFY SCALE
DRAWN	SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED	RW	0 1"
APPROVED	RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE	04/12/2021	
ISSUED FOR	BID DOCUMENTS	

SMITHGROUP	
DATE	REVISIONS

V&K
VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

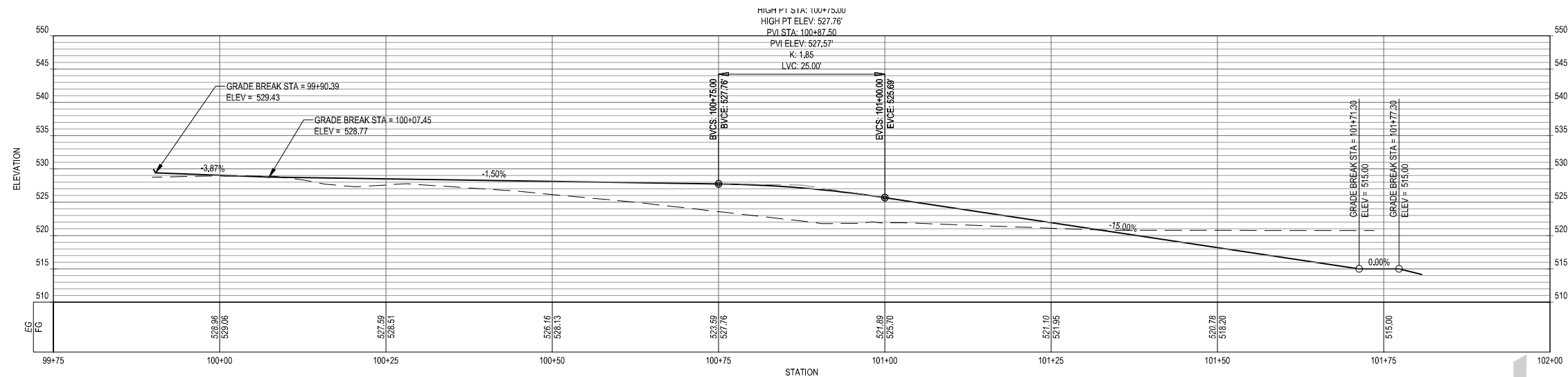
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309-786-7590 o 309-797-0996(FAX) o 877-241-8010(WATS)

SECTIONS AND DETAILS

DWG. NO.	US.18
PROJECT	11682.000

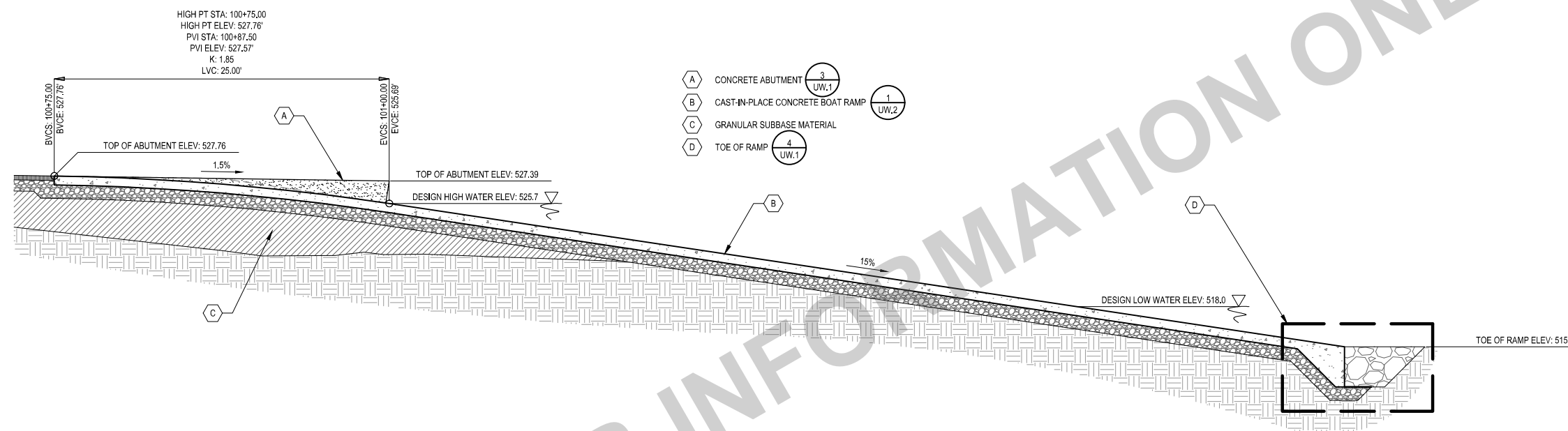
X-REFS: 11682-001-TTBK & BOAT RAMPS & 1682-BOAT-RAMP & 11682-DETL-CLEAT & 11682-DETL-PROF-SOUTH BOAT RAMP & 11682-001-C-LAYO & 11682-DOCK-DETAILS & 11682-DETL-RVTM & 11682-DOCK-SECTIONS
FILE PATH:

PLOTTED:



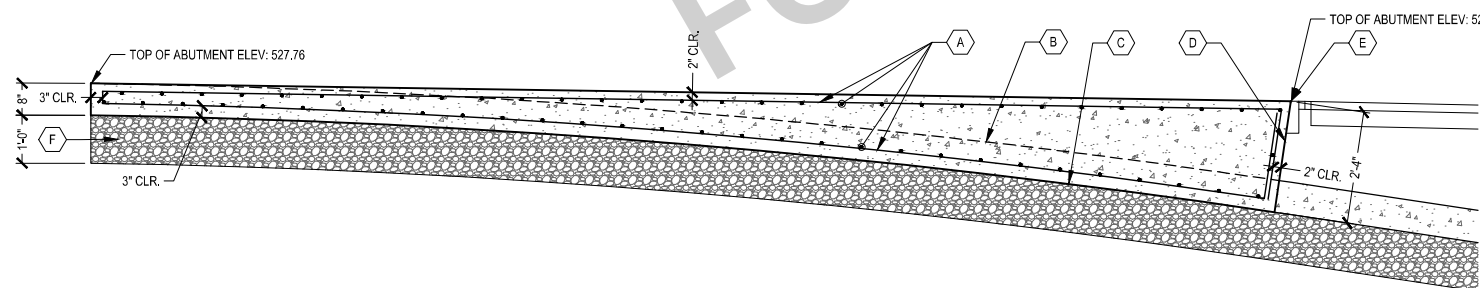
1 SOUTH BOAT RAMP PROFILE - GRADING

SCALE: 1" = 20'



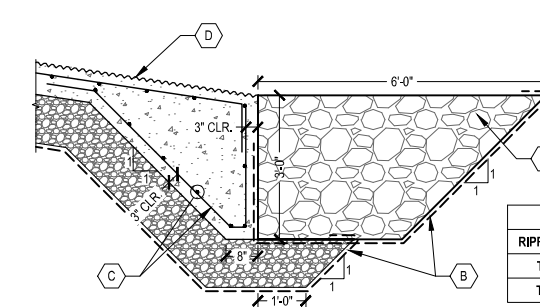
2 SOUTH BOAT RAMP PROFILE

SCALE: 1" = 10'



- A #5 BARS @ 10" SPACING, EACH WAY, TOP & BOTTOM
- B BOAT RAMP SURFACE
- C BOTTOM OF ABUTMENT
- D CAST ABUTMENT FACE PERPENDICULAR TO RAMP SURFACE (NOT VERTICAL)
- E DOCK HINGE BY DOCK MANUFACTURER
- F DENSE GRADED BASE

NOTE:
ALL REBAR SHALL BE EPOXY-COATED



- A RIPRAP TYPE 1
- B SEPARATION GEOTEXTILE
- C #5 BAR @ 12" SPACING, EACH WAY
- D CAST-IN-PLACE BOAT LAUNCH RAMP (GROOVED SURFACE)

Rock Size Table						
RIPRAP TYPE	D15 (in)	D50 (in)	D85 (in)	W15 (lb)	W50 (lb)	W85 (lb)
TYPE 1	13.2	18	26.4	223	557	1838
TYPE 2	22	24	26	980	1320	1640

3 CONCRETE ABUTMENT

SCALE: 1/4" = 1'-0"

4 TOE OF RAMP

SCALE: 1/4" = 1'-0"

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 1"
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE REVISIONS

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PROJECT #: EDP-0977(653)--7Y-29
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CITY OF BURLINGTON, IOWA

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309-786-7390 • 309-797-0996(FAX) • 877-241-9010(WATS)

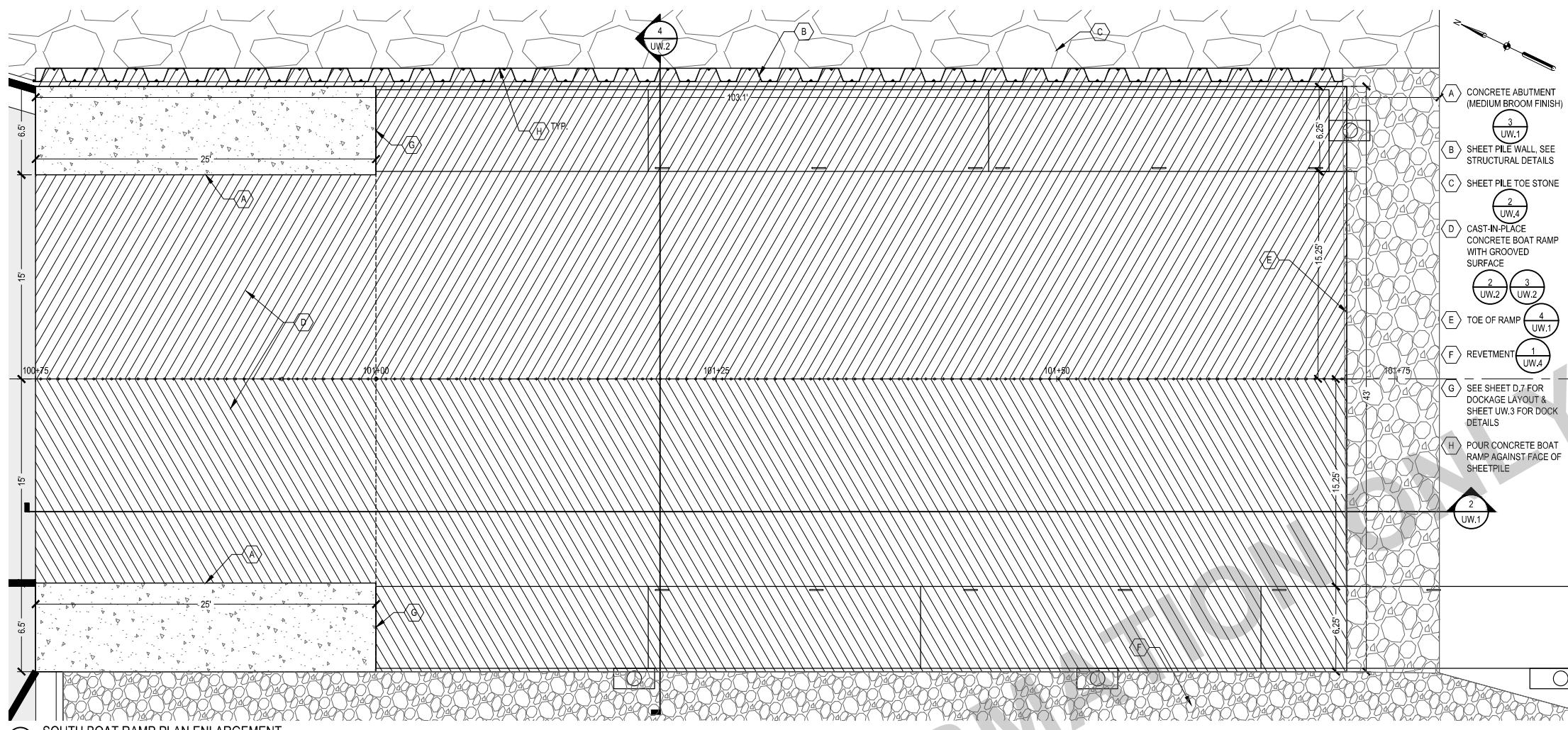
BOAT RAMP DETAILS

DWG. NO. UW.1

PROJECT

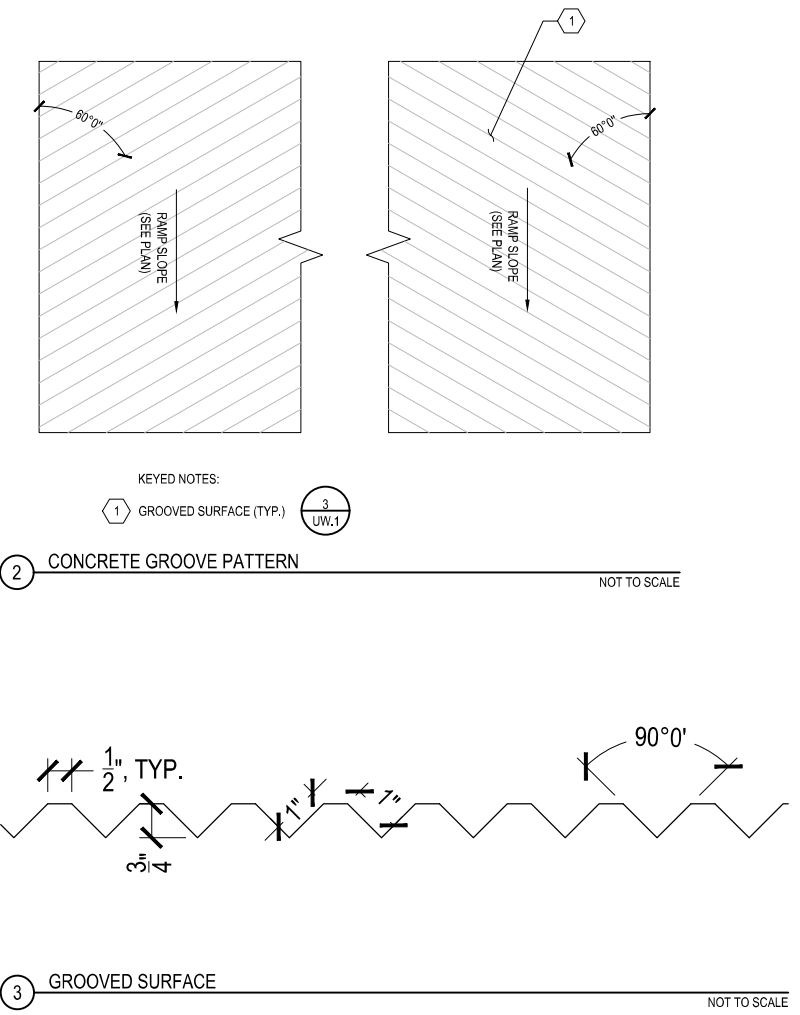
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X-REFS: 11682-001-TTBK & BOAT RAMPS & 1682-BOAT-RAMP & 11682-DET-CLEAT & 11682-DET-CLAY & 11682-DET-PROF-SOUTH BOAT RAMP & 11682-001-C-LAYO & 11682-DOCK-DETAILS & 11682-DET-RVTM & 11682-DOCK-SECTIONS
FILE PATH:



1 SOUTH BOAT RAMP PLAN ENLARGEMENT

SCALE: 1" = 10'

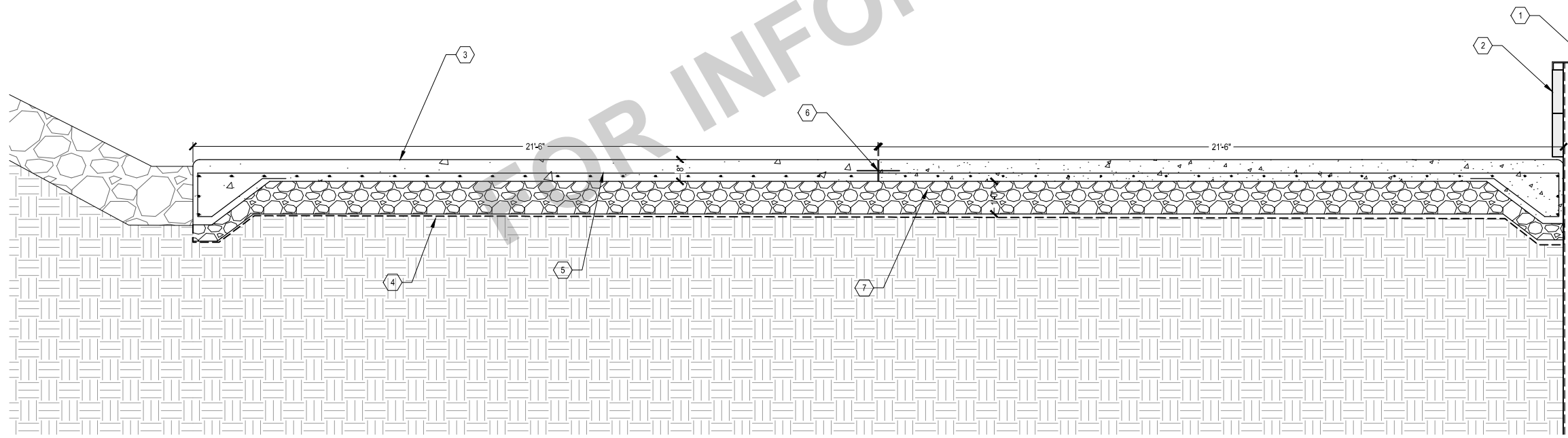


2 CONCRETE GROOVE PATTERN

3 GROOVED SURFACE

NOT TO SCALE

NOT TO SCALE



4 SOUTH BOAT RAMP SECTION

SCALE: 1/4" = 1'

- 1 BENT STEEL CAP
 - 2 TIMBER FASCIA (UW.3)
 - 3 CAST-IN-PLACE CONCRETE BOAT RAMP
 - 4 SEPARATION GEOTEXTILE
 - 5 #5 REBAR WITH STD HOOK AT 12" SPACING, TYP.
 - 6 EXPANSION JOINT WITH 18" SS DOWEL
 - 7 DENSE GRADED BASE
 - 8 SHEET PILE WALL:
1. PROVIDE A STRUCTURAL DRAWING SUBMITTAL FOR INTERLOCKING SHEET PILE INSTALLATION. SHEET PILE WALL SHOULD BE ESTIMATED AT 96' LONG AND 28' TOTAL HEIGHT FROM HIGHWATER ELEVATION 525.7 TO THE EMBEDMENT ELEVATION OF 497.7. SEE BORINGS ON SHEET UW.4.
 2. SHEET PILE WALL IN INTEGRAL TO THE NORTH COURTESY DOCK AND WILL NEED TO BE ATTACHED AND FLOAT UP AND DOWN ALONG THE WALL AND REMOVED IN THE WINTER.
 3. SHEET PILE SHALL BE LB FOSTER PCZ 18 GRADE 60, ASTM A 572 OR EQUIVALENT.
 4. CALCULATIONS FOR SHEET PILE STRUCTURAL CAPACITY SHOULD BE SUBMITTED AS A PART OF THE DOCKAGE SUBMITTAL AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF IOWA

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

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VEENSTRA & KIMM, INC.

PROJECT #: EDP-0977(653)--7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

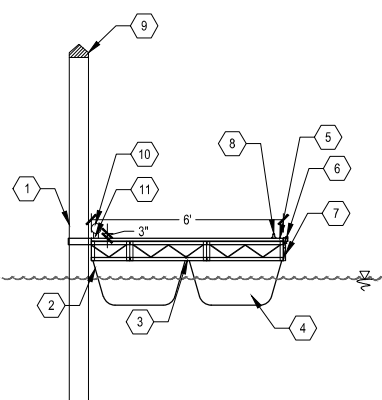
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DWG. NO. UW.2

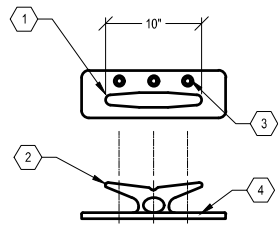
PROJECT BOAT RAMP DETAILS

PLOTTED:

X-REFS: 11682-001-TTBK & BOAT RAMPS & 1682-BOAT-RAMP & 11682-DETL-CLEAT & 11682-DETL-C-LAYO & 11682-DETL-RVTM & 11682-DETL-SECTION
FILE PATH:



- 1 GUIDE PILE
- 2 FLOAT
- 3 DOCK FRAME
- 4 ENCAPSULATED POLYSTYRENE FLOTATION
- 5 IPE DECKING
- 6 VINYL RUB STRIP
- 7 WALER SHALL BE COMPOSITE LUMBER OR APPROVED EQUAL. TIMBER IS NOT ACCEPTABLE.
- 8 DOCK CLEAT (2 UW.3)
- 9 CONICAL PILE CAP (BLACK)
- 10 4" DIAMETER BULL RAIL
- 11 BULL RAIL SUPPORT



2 MOORING CLEAT TYP. NOT TO SCALE

- 1 FLAT-TOP HEAVY DUTY CLEAT OR APPROVED EQUAL. CLEAT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS
- 2 FOLD-DOWN CLEAT
- 3 MOUNTING HOLES
- 4 CLEAT BASE

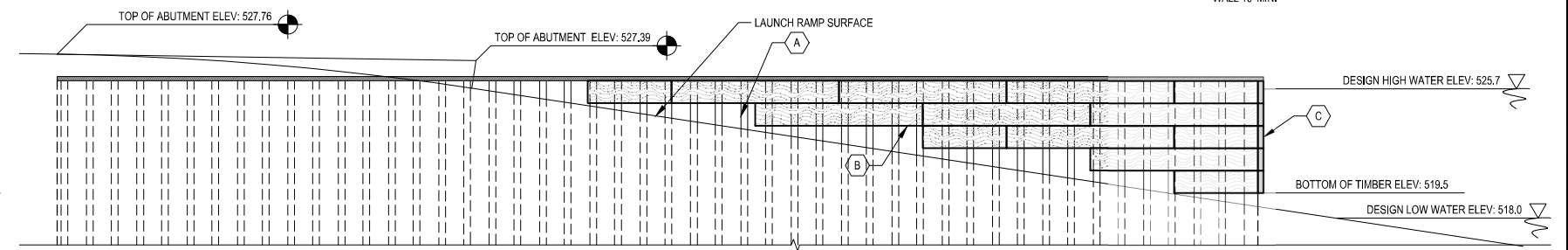
GUIDE PILE NOTES:

1. PROVIDE STRUCTURAL DRAWINGS FOR A MISSISSIPPI RIVER GUIDE PILE INSTALLATION. (SIGNED BY P.E.)
2. SEE BORING LOG (UW.4) FOR SOIL INFORMATION NEAR LOCATION. SEE GEOTECHNICAL REPORT FOR ADDITIONAL BORINGS.
3. MWL = NORMAL POOL ELEVATION OF 521' M.S.L.
4. PILES SHALL BE MIN. 8" Ø STEEL PILES COMPLYING WITH ASTM A252 GRADE 3 (45ksi).

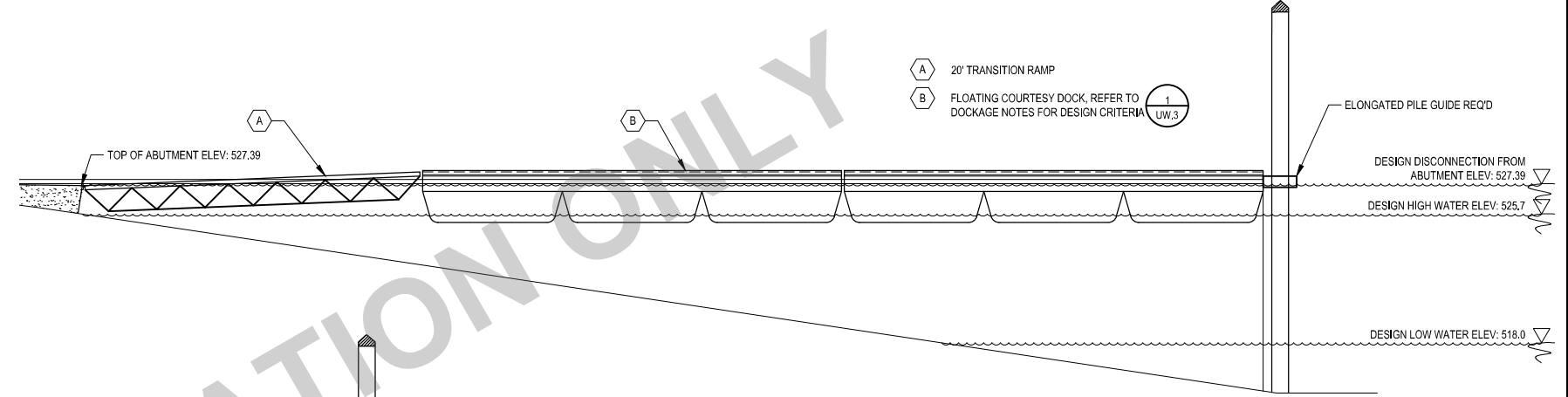
DOCKAGE NOTES:

1. BOAT RAMP DESIGN WATER FLUCTUATION IS 518 TO 525.7. PILE GUIDES AND TRANSITION PLATES SHALL BE DESIGNED BY DOCKAGE MANUFACTURER TO ACCOMMODATE WATER FLUCTUATION AND DOCK LENGTHENING.
2. DURING MISSISSIPPI RIVER FLOOD FLOWS, THE DOCKAGE SYSTEM AND ATTACHMENTS SHALL BE DESIGNED FOR DISCONNECTION FROM THE ABUTMENT AT WATER ELEVATION 527.5. DOCKAGE WILL EITHER REMAIN IN PLACE OR BE REMOVED BY OWNER AT OWNER'S DISCRETION.
3. PILE LOCATIONS & LATERAL RESTRAINT AND/OR ROLLER AT SHEET PILE WALL TO BE PER DOCKAGE MANUFACTURER. MIN. TOP OF PILE ELEVATION SHALL MATCH TOP OF FLOOD WALL ELEVATION PLUS 5 FEET. SEE STRUCTURAL DETAILS FOR PILE DESIGN.
4. DOCK MANUFACTURER SHALL ADD LEGS TO DOCKAGE TO SIT ON RAMP TO AVOID DAMAGE TO FLOTATION UNITS FROM SITTING ON CONCRETE RAMP DURING WATER FLUCTUATIONS.

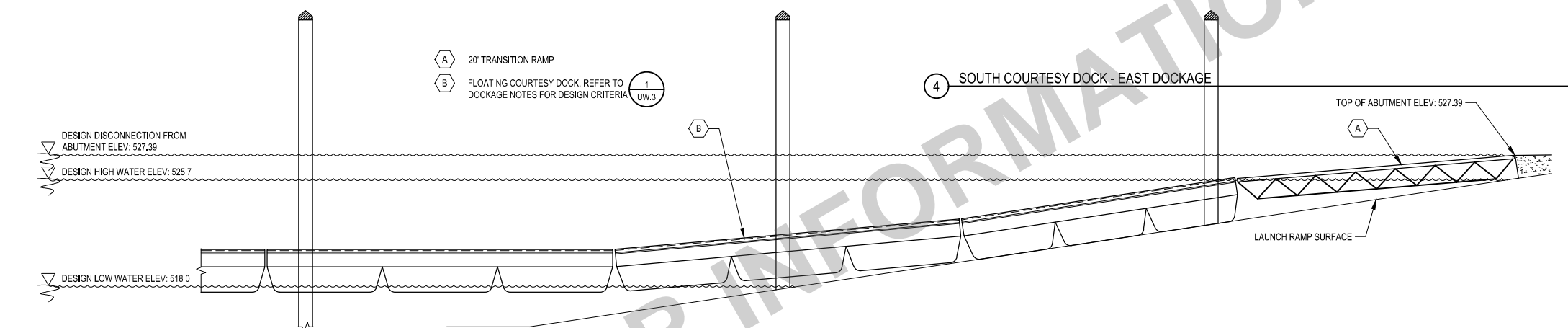
1 COURTESY DOCK DETAIL - TYPICAL NOT TO SCALE



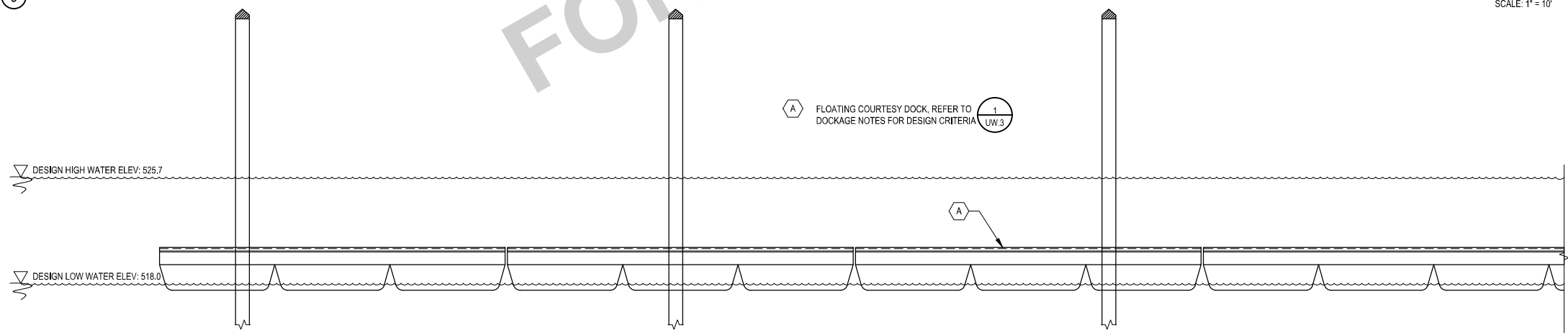
3 TIMBER FASCIA SCALE: 1" = 10'



4 SOUTH COURTESY DOCK - EAST DOCKAGE SCALE: 1" = 10'



5 SOUTH COURTESY DOCK - WEST DOCKAGE SECTION A SCALE: 1" = 10'



6 SOUTH COURTESY DOCK - WEST DOCKAGE SECTION B SCALE: 1" = 10'

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0
APPROVED RW	1"
DATE 04/12/2021	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE REVISIONS

V&K

VEENSTRA & KIMM, INC.

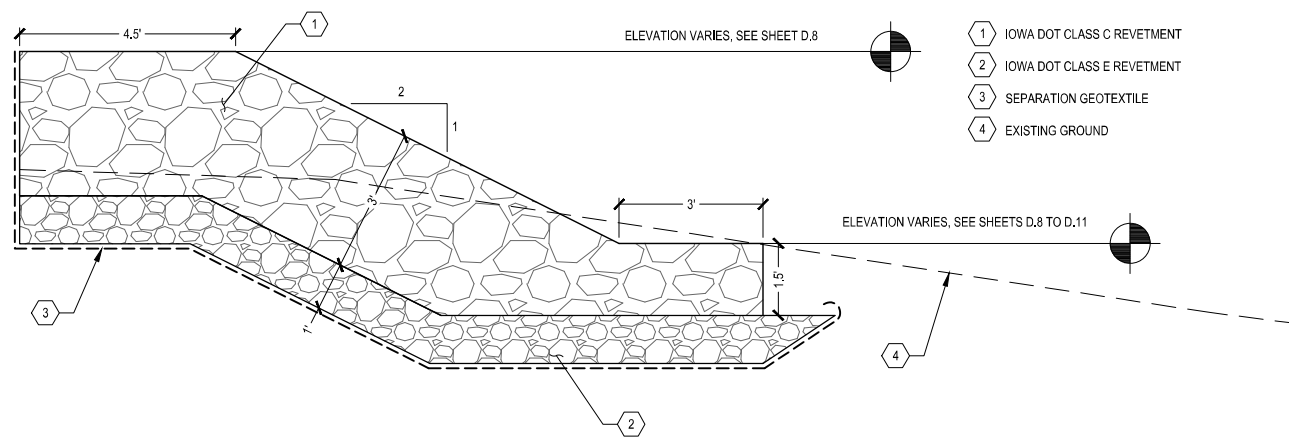
PROJECT #: EDP-0977(653)-7Y-29
DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

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DWG. NO. UW.3

PROJECT BOAT RAMP DETAILS

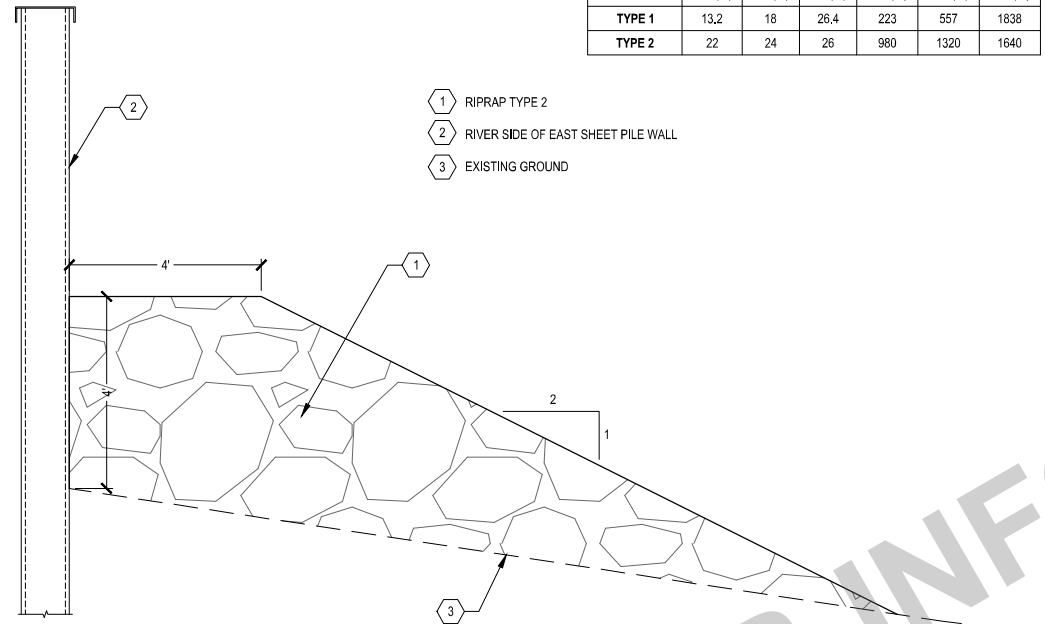
X-REFS: 11682-001-TTBK & BOAT RAMPS & 1682-BOAT-RAMP & 11682-DET-CLEAT & 11682-DET-CLEAT & 11682-001-C-LAYO & 11682-DET-RVTM & 11682-DET-SECTIONS
FILE PATH: PLOTTED:



1 REVETMENT SECTION

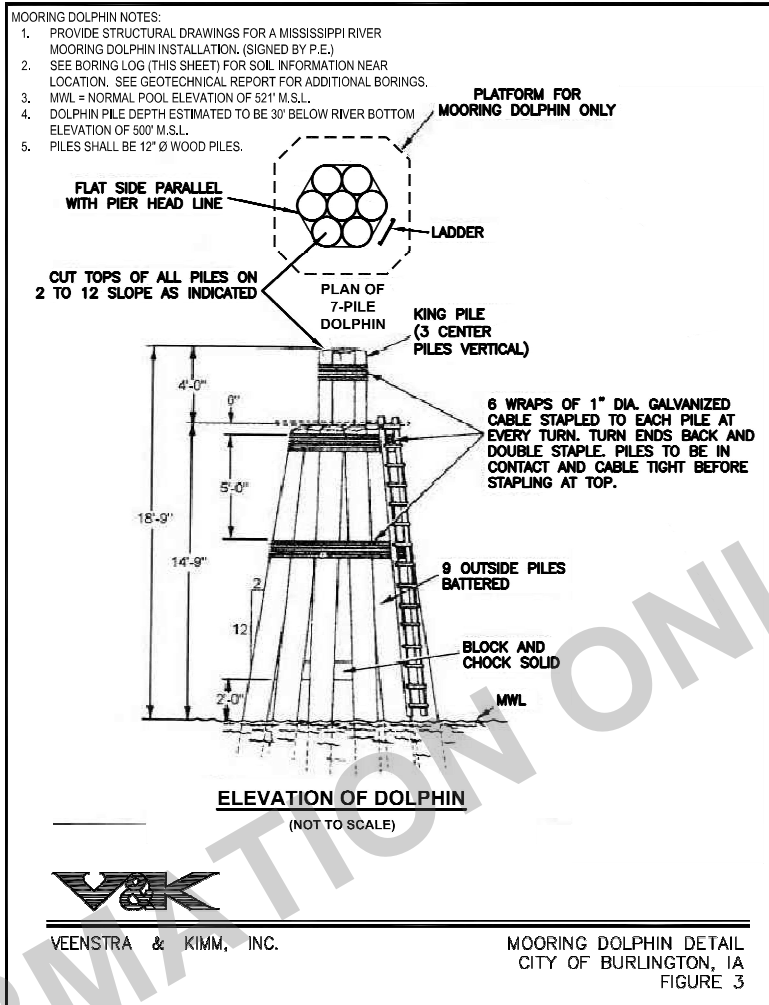
SCALE: 1/4" = 1'

RIPRAP TYPE	Rock Size Table					
	D15 (in)	D50 (in)	D85 (in)	W15 (lb)	W50 (lb)	W85 (lb)
TYPE 1	13.2	18	26.4	223	557	1838
TYPE 2	22	24	26	980	1320	1640



2 SHEET PILE TOE STONE

SCALE: 1/4" = 1'-0"



3 MOORING DOLPHIN DETAIL

SCALE: NTS

VEENSTRA & KIMM, INC.
MOORING DOLPHIN DETAIL
CITY OF BURLINGTON, IA
FIGURE 3

BORING LOG NO. B-11												Page 1 of 2
PROJECT: Burlington Riverfront Flood Mitigation						CLIENT: Veenstra & Kimm, Inc.						
SITE: Phase V Burlington, Iowa						OWNER: City of Burlington						
DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	FIELD TEST RESULTS	SAMPLE NO.	ORGANIC CONTENT (%)	LABORATORY INFORMATION	WATER CONTENT (%)	SHRINKAGE (%)	LL-PL-PI	PERCENT FINES	
0.0		3.3" Asphaltic Cement Concrete										
1.0		FILL - SANDY LEAN CLAY		3-3-3 N=6	1						17	
2.0		FILL - CRUSHED LIMESTONE		3-5-8 N=13	2						19	
3.0		FILL - SAND WITH SILT		2-2-3 N=5	3						14	
4.0		FILL - SAND WITH SILT		4-4-3 N=7	4						9	
5.0		FILL - SAND WITH SILT		3-1-2 N=3	5						23	
6.0		LEAN CLAY (CL)		0-1-1 N=2	6	500 (SP)					45	
7.0		POORLY GRADED SAND WITH GRAVEL (SP)		3-2-3 N=6	7						28	
8.0		POORLY GRADED GRAVELLY SAND (SP)		5-5-5 N=10	8						17	

BORING LOG NO. B-11												Page 2 of 2
PROJECT: Burlington Riverfront Flood Mitigation						CLIENT: Veenstra & Kimm, Inc.						
SITE: Phase V Burlington, Iowa						OWNER: City of Burlington						
DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (%)	FIELD TEST RESULTS	SAMPLE NO.	ORGANIC CONTENT (%)	LABORATORY INFORMATION	WATER CONTENT (%)	SHRINKAGE (%)	LL-PL-PI	PERCENT FINES	
9.0		SILTY SAND WITH GRAVEL (SM)		4-4-4 N=8	9						21	
10.0		POORLY GRADED SAND (SP)		7-6-5 N=11	10						16	
11.0		loose at Sample 11		5-4-4 N=5	11						23	
12.0		POORLY GRADED GRAVEL WITH SAND (GP)		15-17-14 N=31	12						13	
13.0		Boring Terminated at 50 Feet										

NOTE:
BORING LOGS FROM RIVERFRONT FLOOD MITIGATION - PHASE V
TERRACON PROJECT NO. 07165018, DATED JULY 11, 2017.
SEE SHEET D.3 FOR BORING LOCATION.

SCALE	VERIFY SCALE
DRAWN SKH	BAR IS ONE INCH ON ORIGINAL DRAWING.
CHECKED RW	0 1"
APPROVED RW	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DATE 04/12/2021	
ISSUED FOR BID DOCUMENTS	

SMITHGROUP

DATE: _____ REVISIONS: _____

VEENSTRA & KIMM, INC.

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DOWNTOWN/RIVERFRONT REVITALIZATION PROJECT
CITY OF BURLINGTON, IOWA

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REVETMENT SECTIONS

UW.4

DWG. NO. UW.4
PROJECT