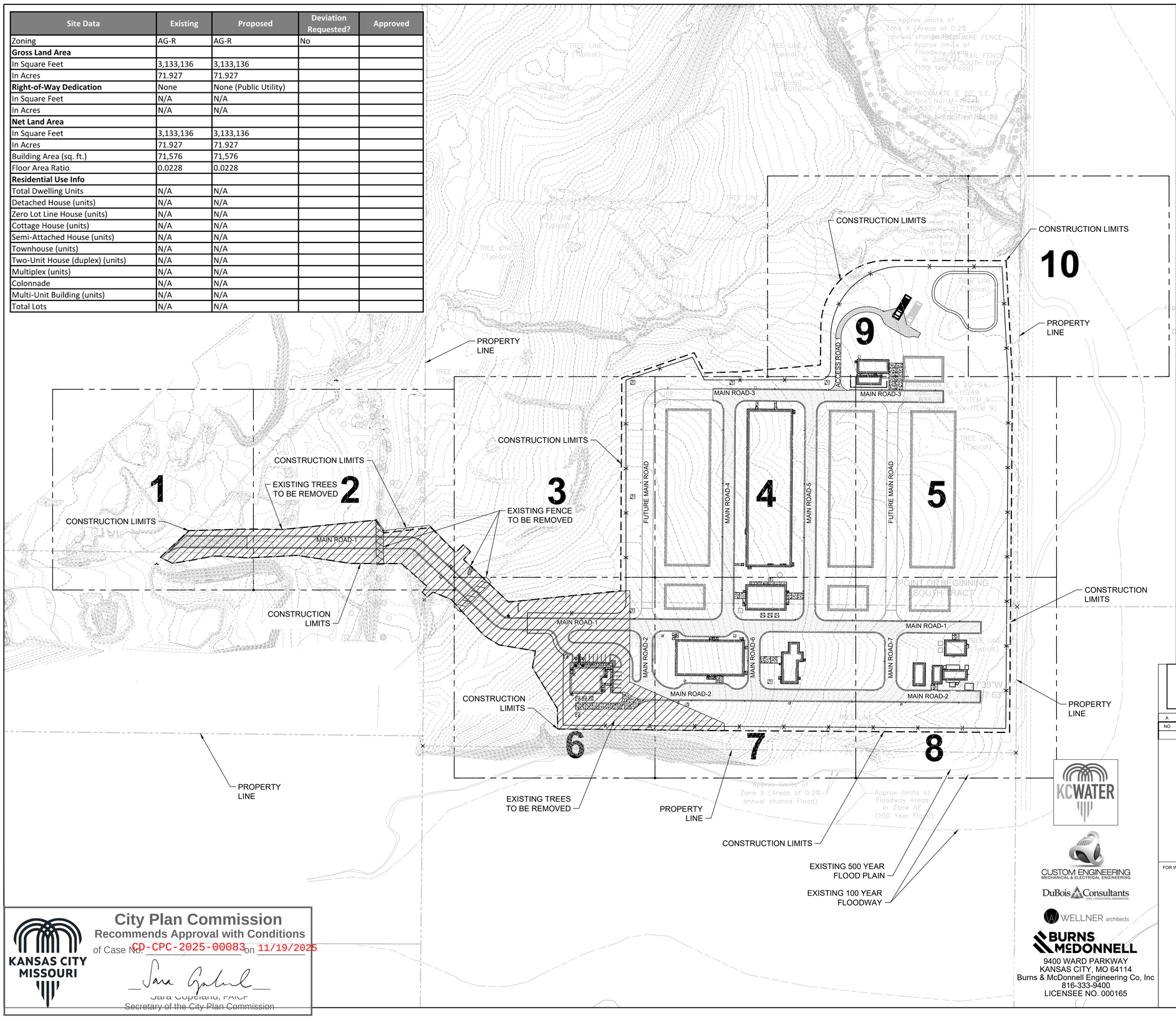
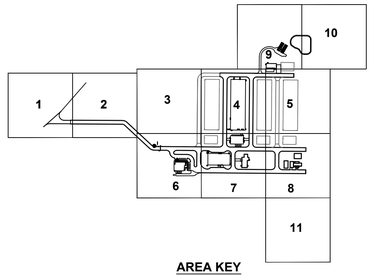
Site Data	Existing	Proposed	Deviation Requested?	Approved
Zoning	AG-R	AG-R	No	
Gross Land Area				
In Square Feet	3,133,136	3,133,136		
In Acres	71.927	71.927		
Right-of-Way Dedication	None	None (Public Utility)		
In Square Feet	N/A	N/A		
In Acres	N/A	N/A		
Net Land Area				
In Square Feet	3,133,136	3,133,136		
In Acres	71.927	71.927		
Building Area (sq. ft.)	71,576	71,576		
Floor Area Ratio	0.0228	0.0228		
Residential Use Info				
Total Dwelling Units	N/A	N/A		
Detached House (units)	N/A	N/A		
Zero Lot Line House (units)	N/A	N/A		
Cottage House (units)	N/A	N/A		
Semi-Attached House (units)	N/A	N/A		
Townhouse (units)	N/A	N/A		
Two-Unit House (duplex) (units)	N/A	N/A		
Multiplex (units)	N/A	N/A		
Colonnade	N/A	N/A		
Multi-Unit Building (units)	N/A	N/A		
Total Lots	N/A	N/A		



DEMOLITION NOTES:

1. CONTRACTOR TO PROTECT ALL TREES THAT WILL NOT BE DESTROYED BY CONSTRUCTION ACTIVITIES. CONTRATOR SHALL REMOVE ONLY THOSE TREES REQUIRED TO GRADE THE SITE TO THE FINAL GRADES SHOWN ON THE GRADING PLAN. IN NO CASE SHALL THE CONTRACTOR REMOVE TREES OR OTHER EXISTING VEGETATION OUTSIDE OF THE LIMITS OF CONSTRUCTION.



AREA KEY

NORTH

0 50' 100'
SCALE IN FEET

FLOOD PLAIN ELEVATIONS
100 YR. 837.00
500 YR. 839.00

KCWATER SERVICES
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
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WELLNER architects
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KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE AND DEMOLITION PLAN

FOR WSD USE:

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CONTRACTOR	DATE COMPLETED
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CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C102

PROJECT NO. 81000927

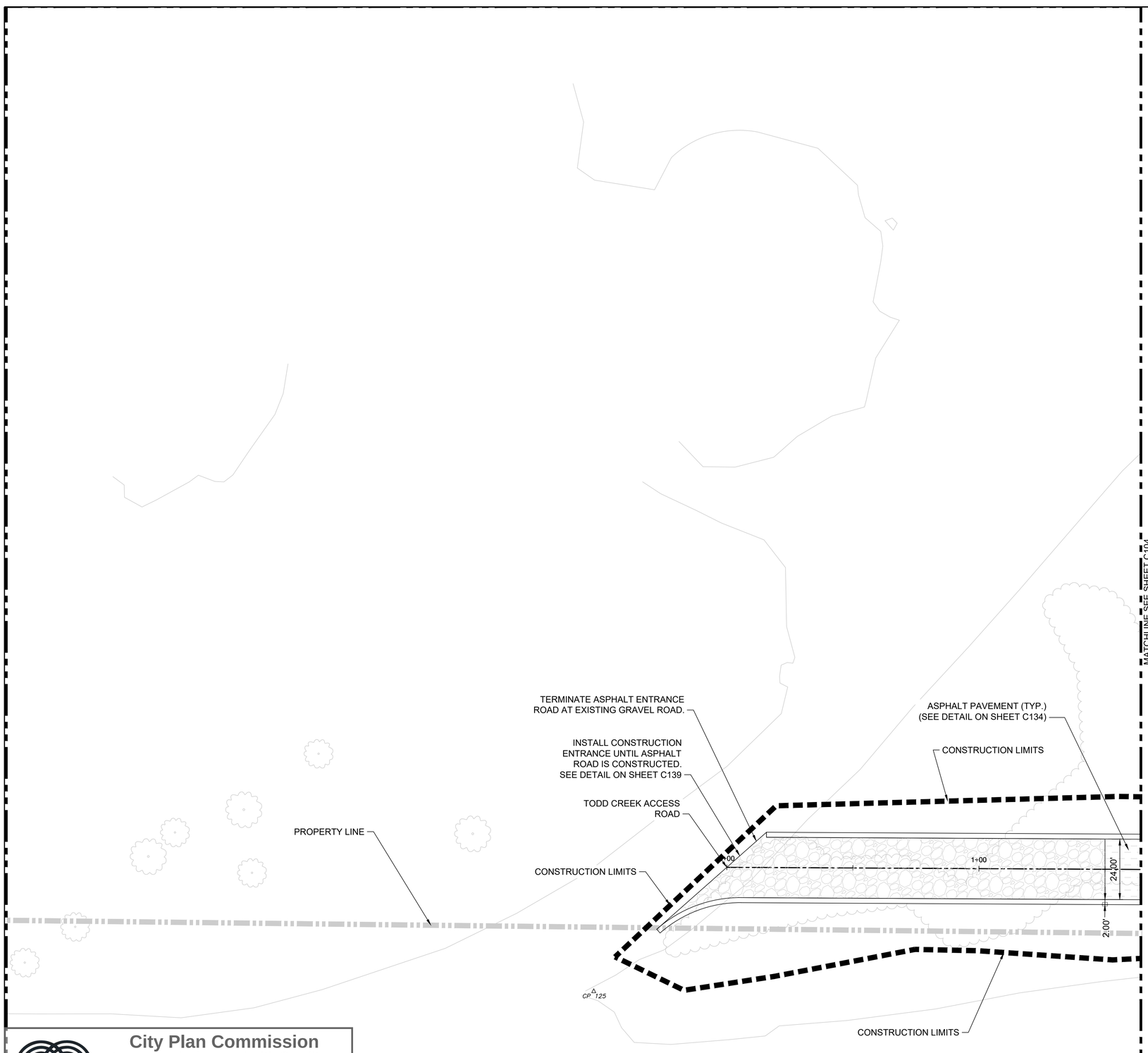
SHEET 2 OF 40

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
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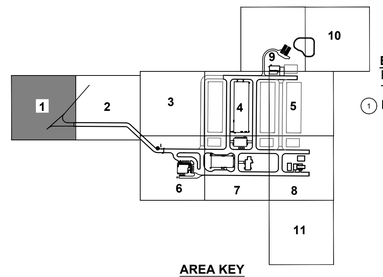
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LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS
TOP OF CONCRETE FOR NON-BUILDING STRUCTURES
(1) DENOTES STRUCTURE LOCATION POINT

AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE AND FENCING PLAN 1

FOR WSD USE:

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MECHANICAL & ELECTRICAL ENGINEERING

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CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C103

PROJECT NO. 81000927

SHEET 3 OF 40

KANSAS CITY MISSOURI

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MATCHLINE SEE SHEET C103

TREE LINE

TREE LINE

PROPERTY LINE

EXISTING FENCE

EAST LINE, WEST 1/2, NW 1/4, SECTION 1–T52N–R34W

WEST LINE, EAST 1/2, NW 1/4, SECTION 1–T52N–R34W

Unplatted – Parcel 17-1.0-01-000-000-010.000 Ownership: MMT-Midwest Properties LLC

CONSTRUCTION LIMITS

ASPHALT PAVEMENT (TYP.) (SEE DETAIL ON SHEET C134)

30" RCP AND RCP END SECTION (TYP) (SEE DETAIL ON SHEET C134) (SEE PROFILE ON SHEET C133)

REMOVE EXISTING FENCE

2+00 3+00 4+00 5+00

MAIN ROAD 1

24.00'

2.00'

PC: 5+11.51

R49.00'

MA: 15°25'26"

PT: 5+39.00

R25.00'

6' WIDE CONCRETE FLUME W/ RIP RAP

6+00

WEST 1/2, NW 1/4 OF SECTION 1-T52N-R34W UNPLATTED

CONSTRUCTION LIMITS

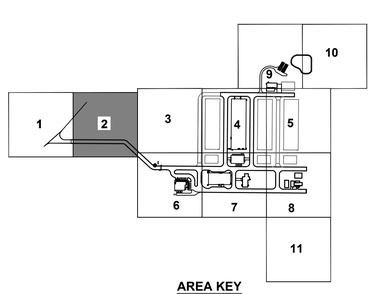
RIP RAP (6'W X 15'L) (SEE DETAIL ON SHEET C134)

SW CORNER, EAST 1/2,

MATCHLINE SEE SHEET C105

LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



AREA KEY

ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS

(1) DENOTES STRUCTURE LOCATION POINT

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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TODD CREEK WWTP EXPANSION AND UPGRADE

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GENERAL SITE AND FENCING PLAN 2

FOR WSD USE:

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
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WELLNER architects

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C104

PROJECT NO. 81000927

SHEET 4 OF 40

KANSAS CITY MISSOURI

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(Typical)

TREE LINE

FENCE
(SEE DETAILS ON SHEET C136)
(SEE SPEC SEC 02820)

TREE LINE

TREE LINE
(Typical)

103

CONSTRUCTION
LIMITS

MATCHLINE SEE SHEET C104

MATCHLINE SEE SHEET C106

MATCHLINE SEE SHEET C108

30" RCP AND RCP END SECTION (TYP)
(SEE DETAIL ON SHEET C134)
(SEE PROFILE ON SHEET C133)

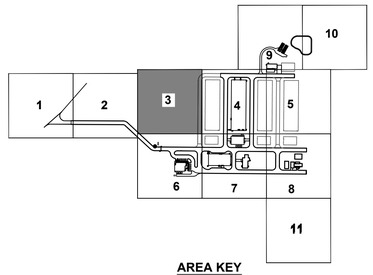
RIP-RAP (7.5'W X 17.25'L)
(SEE DETAIL ON SHEET C134)

CONSTRUCTION
LIMITS
EXISTING FENCE
ASPHALT PAVEMENT (TYP.)
T C134
XISTING FENCE

FENCE AND GATE POST POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
103	1158693.69	2740500.65	FENCE CORNER

LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



AREA KEY

ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS
TOP OF CONCRETE FOR NON-BUILDING STRUCTURES
(1) DENOTES STRUCTURE LOCATION POINT

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE AND FENCING PLAN 3

FOR WSD USE:

KCWATER

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MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL & STRUCTURAL ENGINEERING

WELLNER architects

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9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C105

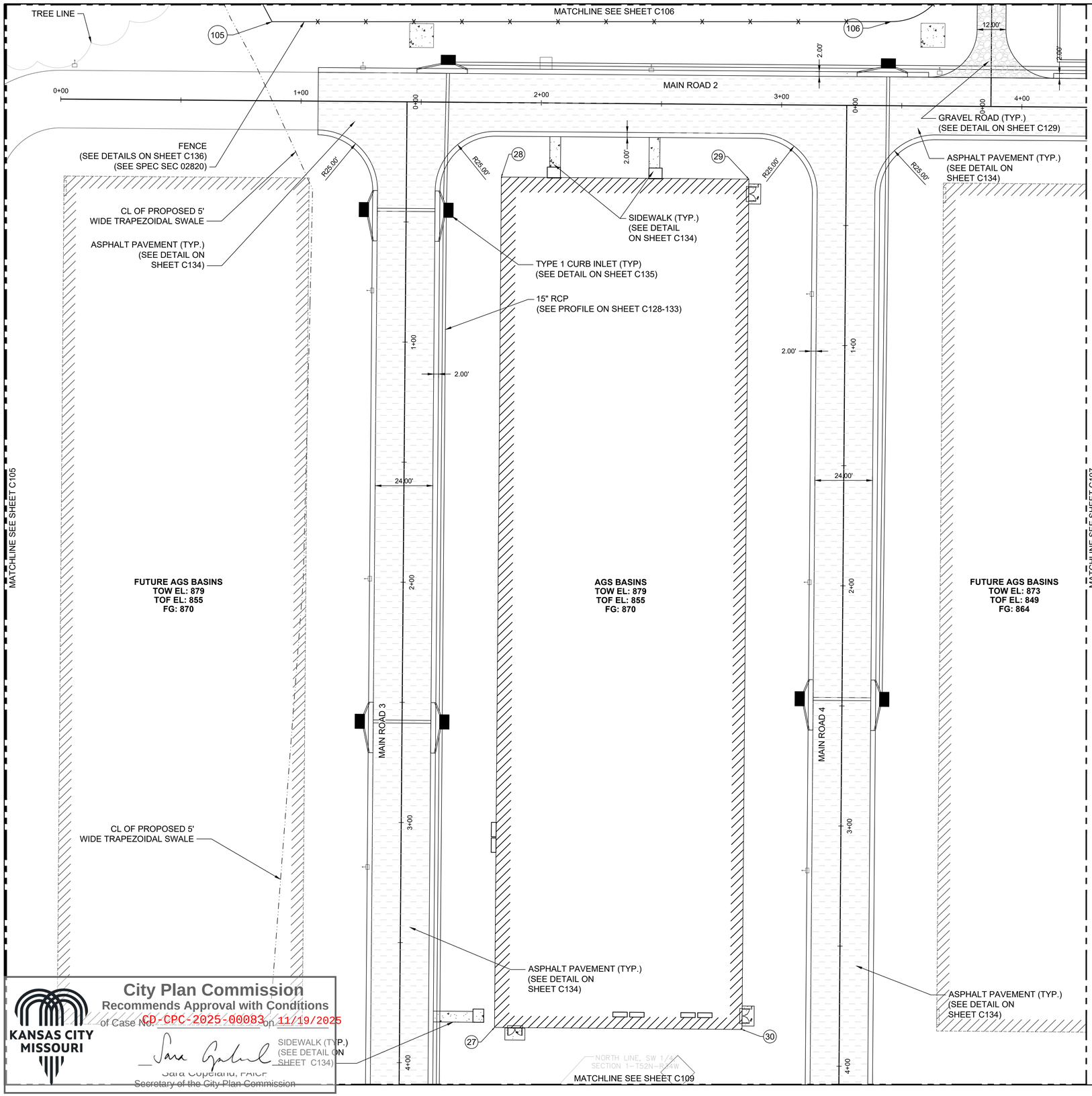
PROJECT NO. 81000927

SHEET 5 OF 40

KANSAS CITY MISSOURI

City Plan Commission
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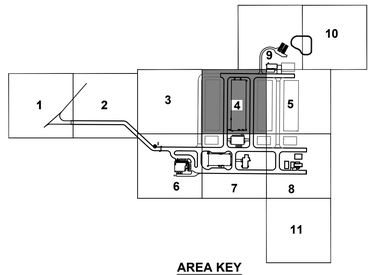


FENCE AND GATE POST POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
105	1158693.69	2740676.53	FENCE CORNER
106	1158693.72	2740934.16	FENCE CORNER

STRUCTURE LOCATION SCHEDULE				
NO	DESCRIPTION	NORTH	EAST	ELEVAT
27	BC	1158275.0314	2740769.1095	870.0
28	BC	1158629.0199	2740771.9574	870.0
29	BC	1158628.1913	2740874.9540	870.0
30	BC	1158274.2028	2740872.1061	870.0

LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



AREA KEY

ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS
TOP OF CONCRETE FOR NON-BUILDING STRUCTURES
(1) DENOTES STRUCTURE LOCATION POINT

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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KANSAS CITY, MISSOURI

KANSAS CITY MISSOURI

City Plan Commission
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KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE AND FENCING PLAN 4

FOR WSD USE:

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CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C106

PROJECT NO. 81000927 SHEET 6 OF 40

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MATCHLINE SEE SHEET C111

MATCHLINE SEE SHEET C112

31

39

31.00'

2.00'

CONCRETE PAVEMENT (TYP.)
(SEE DETAIL ON SHEET C134)

ASPHALT PAVEMENT (TYP.)
(SEE DETAIL ON SHEET C134)

MAIN ROAD 2

5+00

6+00

6+24

24.00'

TYPE 1 CURB INLET (TYP)
(SEE DETAIL ON SHEET C134)

2.00'

111

5' MH (TYP)
(SEE DETAIL ON SHEET C135)

APPROXIMATE ℄ 20' S.E.
Doc. No. M-10249...
Bk. 833, Pg. 117 ITEM 9
(See Title Notes for ITEM 9)

EAST LINE, NW 1/4
SECTION 1-T52N-R34W

CONSTRUCTION
LIMITS

PROPERTY LINE

TREE LINE
(Typical)

FENCE
(SEE DETAILS
ON SHEET C136)
(SEE SPEC SEC 02820)

15" RCP
(SEE PROFILE ON SHEET C128-133)

FUTURE MAIN ROAD

FUTURE AGS BASINS
TOW EL: 873
TOF EL: 849
FG: 864

FUTURE AGS BASINS
TOW EL: 873
TOF EL: 843
FG: 858

MATCHLINE SEE SHEET C108

MATCHLINE SEE SHEET C110

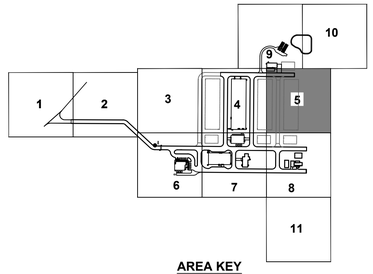
SE CORNER, NW 1/4
SECTION 1-T52N-R34W
FND. 5/8" BAR

FENCE AND GATE POST POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
111	1158684.18	2741357.99	FENCE CORNER

STRUCTURE LOCATION SCHEDULE				
NO	DESCRIPTION	NORTH	EAST	ELEVATION
31	BC	1158682.8988	2741017.3681	858.00
39	BC	1158682.4529	2741072.8663	858.00

LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



AREA KEY

ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS
TOP OF CONCRETE FOR NON-BUILDING STRUCTURES
(1) DENOTES STRUCTURE LOCATION POINT

NORTH

0 10' 20' 40'
SCALE IN FEET

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

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GENERAL SITE AND FENCING PLAN 5

FOR WSD USE:

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

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CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
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816-333-9400
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CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C107

PROJECT NO. 81000927

SHEET 7 OF 40

KANSAS CITY MISSOURI

City Plan Commission
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Secretary of the City Plan Commission

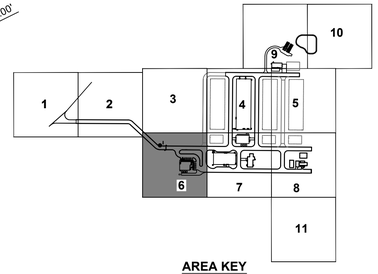
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FENCE AND GATE POST POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
100	1158171.67	2740279.96	FENCE CORNER
101	1158170.10	2740475.45	FENCE CORNER
102	1158195.10	2740500.65	FENCE CORNER
113	1157919.52	2740359.71	FENCE CORNER
114	1158077.47	2740360.20	FENCE CORNER
116	1158111.69	2740337.25	FENCE CORNER
117	1158125.33	2740321.67	FENCE CORNER
118	1158125.67	2740279.33	FENCE CORNER

STRUCTURE LOCATION SCHEDULE				
NO	DESCRIPTION	NORTH	EAST	ELEVATION
1	BC	1157990.6875	2740374.6820	875.50
2	BC	1158034.6859	2740375.0333	875.50
3	BC	1158034.6302	2740382.0331	875.50
4	BC	1158050.6294	2740382.1608	875.50
5	BC	1158050.0546	2740454.1586	875.50
6	BC	1158026.0555	2740453.9669	875.50
7	BC	1158026.1113	2740446.9669	875.50
8	BC	1157990.1126	2740446.6794	875.50

LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



AREA KEY

ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS
TOP OF CONCRETE FOR NON-BUILDING STRUCTURES
① DENOTES STRUCTURE LOCATION POINT

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE AND FENCING PLAN 6

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C108

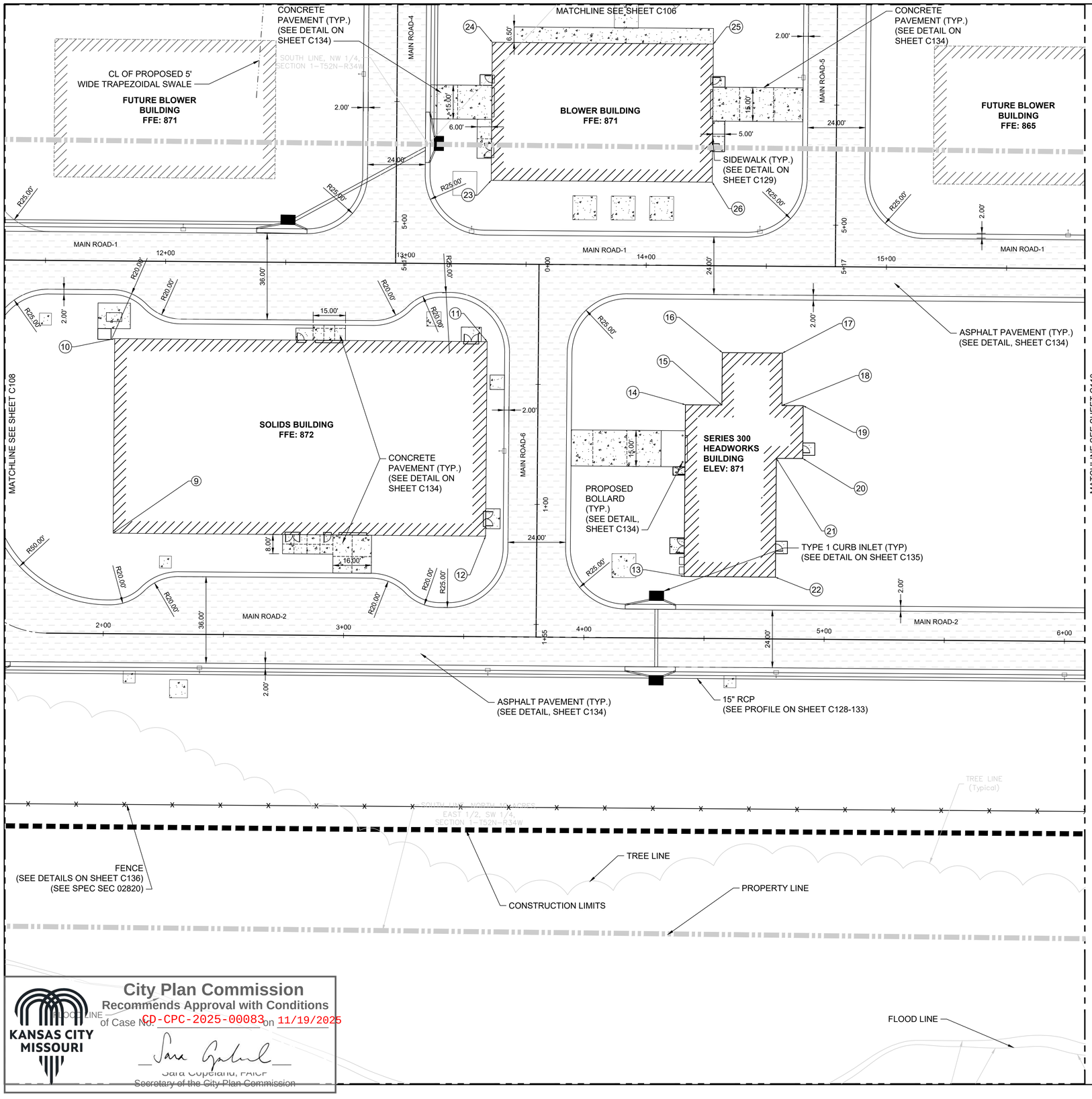
PROJECT NO. 81000927 — SHEET 8 OF 40

KCWATER
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL + STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025
Sara Copeland, FAICP
Secretary of the City Plan Commission

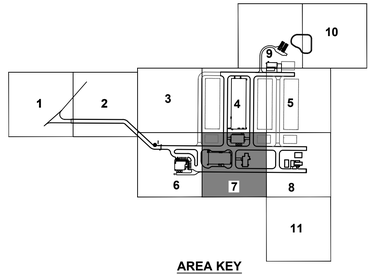
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G:\Z0004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C108-GENERAL SITE AND FENCING PLAN 6.DWG



STRUCTURE LOCATION SCHEDULE				
NO	DESCRIPTION	NORTH	EAST	ELEVATION
9	BC	1158030.6317	2740610.9865	872.00
10	BC	1158111.6291	2740611.6381	872.00
11	BC	1158110.3821	2740766.6331	872.00
12	BC	1158029.3848	2740765.9814	872.00
13	BC	1158012.6132	2740848.5906	871.00
14	BC	1158084.1109	2740849.1659	871.00
15	BC	1158083.9889	2740864.3320	871.00
16	BC	1158105.8215	2740864.5077	871.00
17	BC	1158105.6204	2740889.5069	871.00
18	BC	1158083.7877	2740889.3312	871.00
19	BC	1158083.7167	2740898.1643	871.00
20	BC	1158061.7174	2740897.9873	871.00
21	BC	1158061.8059	2740886.9876	871.00
22	BC	1158012.3075	2740886.5894	871.00
23	BC	1158177.5348	2740768.3251	871.00
24	BC	1158235.0327	2740768.7877	871.00
25	BC	1158234.2926	2740860.7843	871.00
26	BC	1158176.7947	2740860.3217	871.00

LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS
TOP OF CONCRETE FOR NON-BUILDING STRUCTURES
(1) DENOTES STRUCTURE LOCATION POINT

NORTH

0 10' 20' 40'
SCALE IN FEET

AREA KEY

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	–	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE AND FENCING PLAN 7

FOR WSD USE:

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL • STRUCTURAL • ENVIRONMENTAL

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

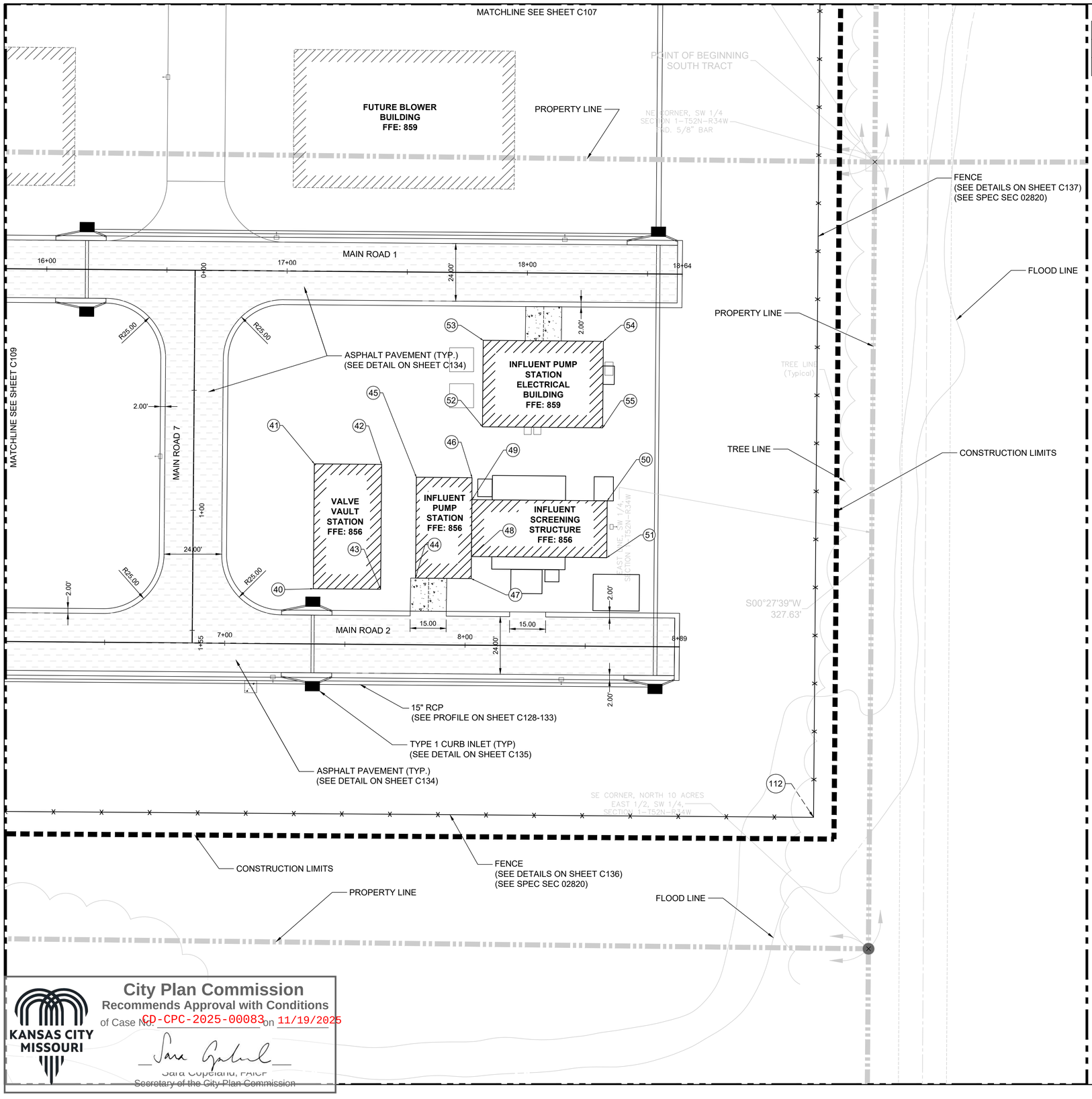
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C109

PROJECT NO.	SHEET 9 OF 40
81000927	

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

Sara Copeland, FAICP
Secretary of the City Plan Commission

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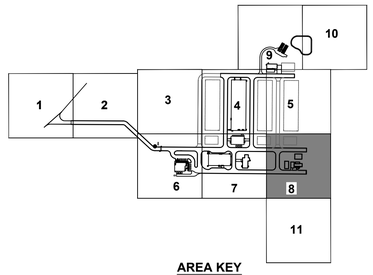


FENCE AND GATE POST POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
112	1157912.31	2741351.89	FENCE CORNER

STRUCTURE LOCATION SCHEDULE				
NO	DESCRIPTION	NORTH	EAST	ELEVATION
40	BC	1158007.5077	2741143.7225	856.00
41	BC	1158059.5061	2741144.1408	856.00
42	BC	1158059.2808	2741172.1399	856.00
43	BC	1158007.2825	2741171.7216	856.00
44	BC	1158011.9157	2741186.2593	856.00
45	BC	1158053.9143	2741186.5972	856.00
46	BC	1158053.7279	2741209.7631	856.00
47	BC	1158011.7293	2741209.4253	856.00
48	BC	1158020.8952	2741209.5593	856.00
49	BC	1158044.5613	2741209.7227	856.00
50	BC	1158044.1084	2741266.0209	856.00
51	BC	1158020.4425	2741265.8305	856.00
52	BC	1158074.9170	2741214.1274	859.00
53	BC	1158110.9158	2741214.4170	859.00
54	BC	1158110.5136	2741264.4154	859.00
55	BC	1158074.5147	2741264.1258	859.00

LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



AREA KEY

ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS
TOP OF CONCRETE FOR NON-BUILDING STRUCTURES
(1) DENOTES STRUCTURE LOCATION POINT

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE AND FENCING PLAN 8

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO
DATE COMPLETED:

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C110

PROJECT NO. 81000927

SHEET 10 OF 40

KCWATER
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL & STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL

9400 WARD PARKWAY
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KANSAS CITY MISSOURI

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Sara Copeland, FAICP
Secretary of the City Plan Commission

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PLOT DATE 9/12/2025 12:28:15 AM by DAVID
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RACT
00-000-008.000
64.428 Acres±,
treet right of way

/2, NW 1/4,
2N-R34W
nty Deed recorded
o Hunt Midwest
orded as Document
1221, at Page 87,
Allmon Tract)

HIP:
OPERTIES, LLC
DRESS:
d Dr, Suite 100
64161-0000
(None Assigned)

FENCE AND GATE POST POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
107	1158718.54	2740959.16	FENCE CORNER
108	1158799.41	2740959.75	FENCE CORNER
109	1158948.20	2741116.00	FENCE CORNER
110	1158947.59	2741343.58	FENCE CORNER

STRUCTURE LOCATION SCHEDULE				
NO	DESCRIPTION	NORTH	EAST	ELEVATION
32	BC	1158704.3981	2741017.5408	858.00
33	BC	1158704.3927	2741018.2075	858.00
34	BC	1158708.0593	2741018.2380	858.00
35	BC	1158740.0583	2741018.4940	858.00
36	BC	1158739.4798	2741090.4917	858.00
37	BC	1158707.4808	2741090.2346	858.00
38	BC	1158703.9522	2741073.0390	858.00

TREE LINE

CONSTRUCTION LIMITS

RIP RAP

109

CONSTRUCTION LIMITS

FENCE
(SEE DETAILS ON SHEET C136)
(SEE SPEC SEC 02820)

TREE LINE
(Typical)

DETENTION BASIN

CASCADE AERATION TOW EL: 848

FUTURE CASCADE AERATION

110

TREE LINE
(Typical)

RIP-RAP (7.5'W X 17.25'L)
(SEE DETAIL ON SHEET C134)

2+00

R70.00

R38.00

R20.00

R20.00

3+00

ACCESS ROAD 1

3+83

GRAVEL ROAD (TYP.)
SEE DETAIL ON SHEET C139

PROPOSED BOLLARD (TYP.)
SEE DETAIL, SHEET C134

R20.00

R20.00

108

12.00'

1+00

ACCESS ROAD 1

CONSTRUCTION LIMITS

107

35

36

37

34

33

38

32

SERIES 600
UV DISINFECTION
STRUCTURE
FFE: 858

CONCRETE PAVEMENT (TYP.)
(SEE DETAIL ON SHEET C134)

FUTURE FILTER
BUILDING
(BY OTHERS)

CONSTRUCTION LIMITS

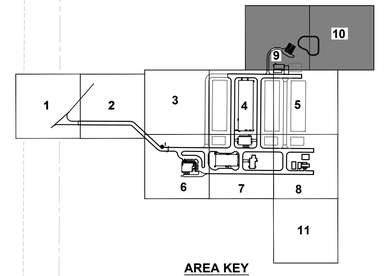
MATCHLINE SEE SHEET C106

MATCHLINE SEE SHEET C107

MATCHLINE SEE SHEET C107

LEGEND

- NEW FENCING
- ASPHALT
- CONCRETE
- 2"-3" COURSE AGGREGATE (CONSTRUCTION ENTRANCE)
- RIP RAP
- GATE PEDESTAL MOUNTED CARD READER
- CONSTRUCTION LIMITS



AREA KEY

ELEVATION NOTES:
FINISHED FLOOR FOR BUILDINGS TOP OF CONCRETE FOR NON-BUILDING STRUCTURES
(1) DENOTES STRUCTURE LOCATION POINT

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE AND FENCING PLAN 9

FOR WSD USE:

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

Sara Copeland, FAICP
Secretary of the City Plan Commission

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

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CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

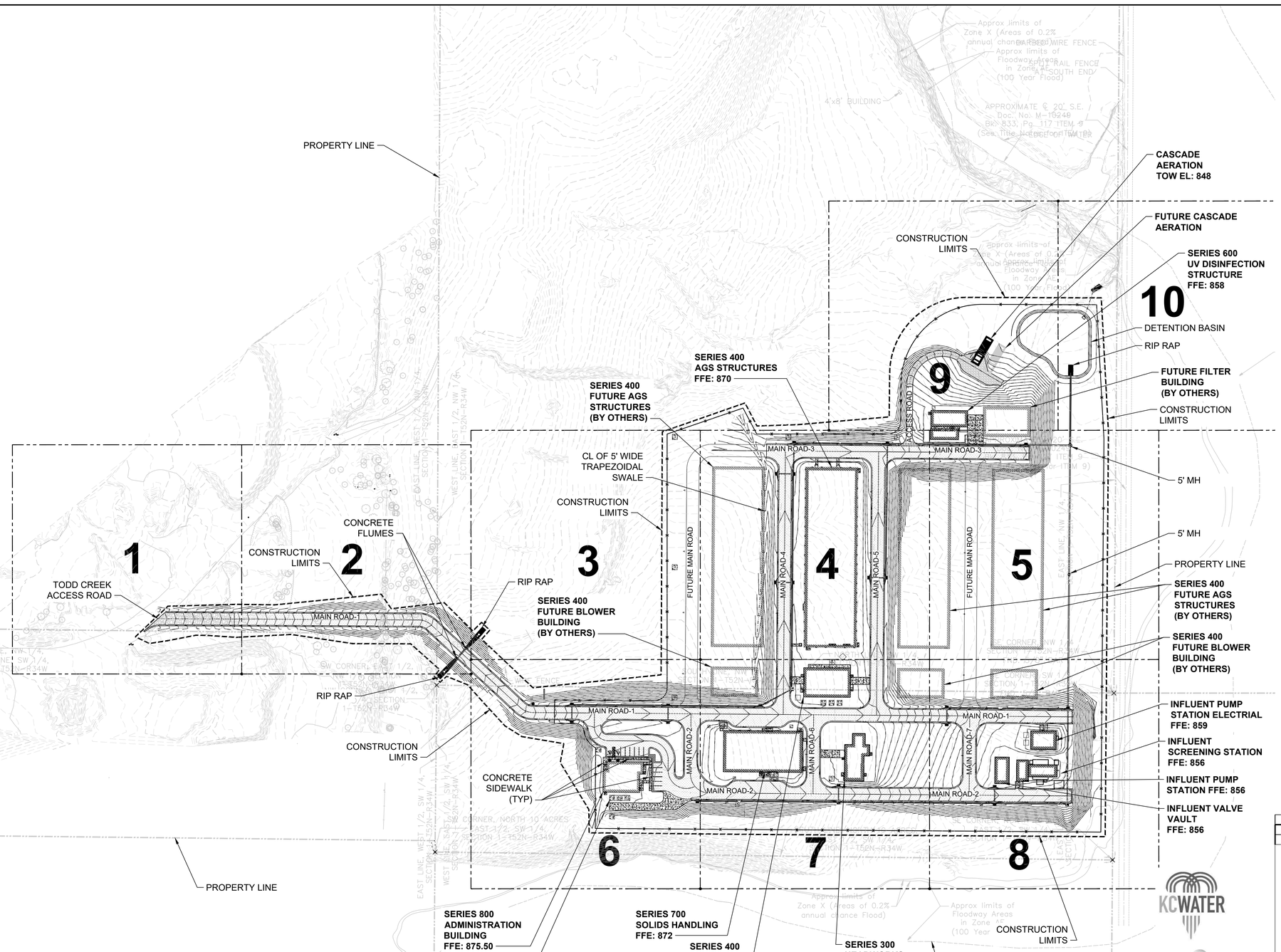
CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C111

PROJECT NO. 81000927

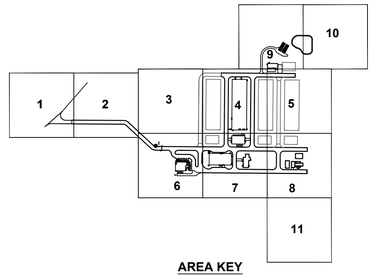
SHEET 11 OF 40

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G:\20004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C111-GENERAL SITE AND FENCING PLAN 9.DWG



NOTES:

1. SEE SHEETS C113 THRU C122 FOR DETAILED GRADING INFORMATION.
2. ALL AREAS TO GRADE TO DRAIN AWAY FROM STRUCTURES.
3. ALL ASPHALT PAVEMENT SHALL BE SLOPED TO DRAIN.



AREA KEY

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL GRADING PLAN

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO

DATE COMPLETED:

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C112

PROJECT NO. 81000927 SHEET 12 OF 40

KCWATER

CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants CIVIL • STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL

9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

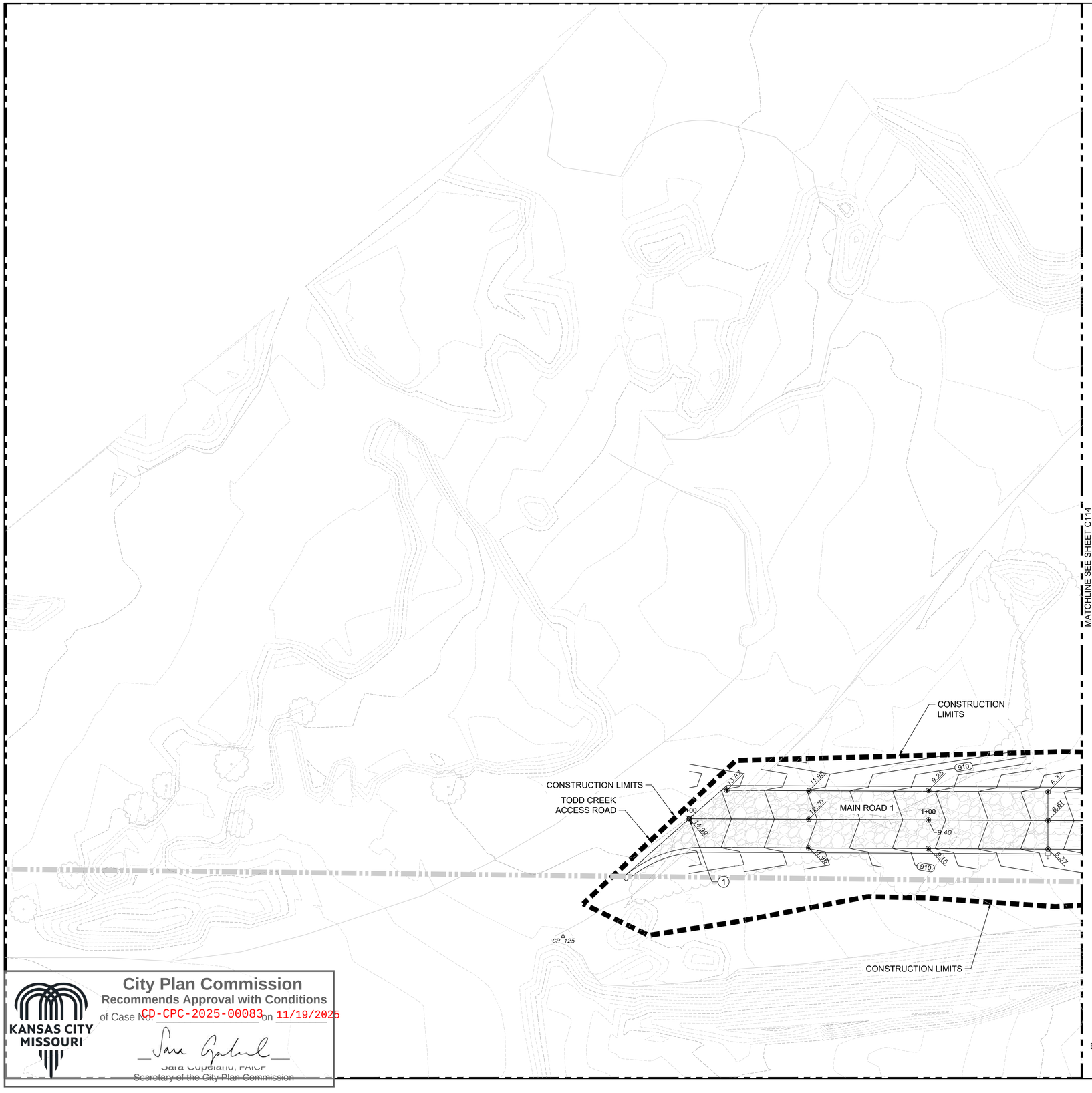
KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
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Secretary of the City Plan Commission

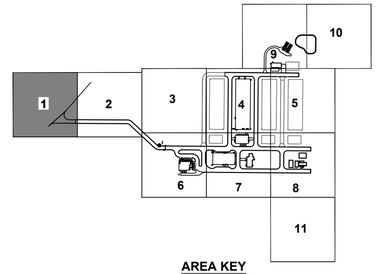
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CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1158331.2902	2739501.4097	914.99	PI



GRADING NOTE:

1. THE FIRST NUMBER OF THE SPOT ELEVATION SHOWN ON THESE PLANS HAS BEEN TRUNCATED. CONTRACTOR SHALL ADD 700, 800 OR 900 TO THE SPOT ELEVATIONS SHOWN TO GET TO ACTUAL PLAN ELEVATIONS. SEE ADJOINING CONTOUR LABELS WHEN DETERMINING ACTUAL ELEVATIONS. ALL CONTOURS LABELS ARE ACTUAL PLAN ELEVATIONS AND REQUIRE NO ADJUSTMENT.



AREA KEY

PRELIMINARY - NOT FOR CONSTRUCTION

NORTH

0 10' 20' 40'
SCALE IN FEET

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 1

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C113

PROJECT NO.	SHEET 13 OF 40
81000927	

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

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KANSAS CITY MISSOURI

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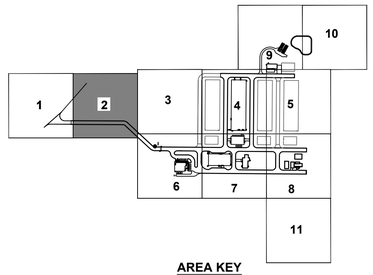
Sara Copeland, FAICP
Secretary of the City Plan Commission

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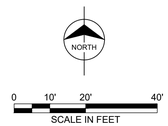
CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
2	1158291.6339	2740012.7222	885.03	CTR
3	1158328.6334	2740012.9144	886.41	BC
4	1158326.0401	2740026.3316	885.68	MID
5	1158318.7534	2740037.8923	885.03	EC
11	1158328.5585	2740027.3277	885.68	PI

GRADING NOTE:

1. THE FIRST NUMBER OF THE SPOT ELEVATION SHOWN ON THESE PLANS HAS BEEN TRUNCATED. CONTRACTOR SHALL ADD 700, 800 OR 900 TO THE SPOT ELEVATIONS SHOWN TO GET TO ACTUAL PLAN ELEVATIONS. SEE ADJOINING CONTOUR LABELS WHEN DETERMINING ACTUAL ELEVATIONS. ALL CONTOURS LABELS ARE ACTUAL PLAN ELEVATIONS AND REQUIRE NO ADJUSTMENT.



AREA KEY



PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 2

FOR WSD USE:

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL & STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
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KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C114

PROJECT NO. 81000927 — SHEET 14 OF 40

MATCHLINE SEE SHEET C113

MATCHLINE SEE SHEET C115

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

MAIN ROAD 1

RIP RAP

EAST LINE, WEST 1/2, NW 1/4, SECTION 1–T52N–R34W

WEST LINE, EAST 1/2, NW 1/4, SECTION 1–T52N–R34W

Unplatted – Parcel ID 17-10-01-000-000-010000
Ownership: MGM Midwest Properties LLC

WEST 1/2, NW 1/4 OF SECTION 1–T52N–R34W UNPLATTED

SW CORNER, EAST 1/2, NW 1/4, SECTION 1–T52N–R34W

PC 5+11.51

MH 5+25.26

2+00 3+00 4+00 5+00 6+00

905 900 895 890 885 880

97.92 95.20 92.40 89.61 87.06 84.79 84.35 84.59 84.79 83.52 83.32 83.04 83.04

3.82 3.58 3.82 3.58 3.82 3.58

(Typical)

TREE-LINE
(Typical)

MATCHLINE SEE SHEET C114

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

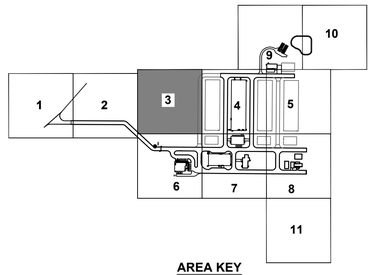
MATCHLINE SEE SHEET C116

CONSTRUCTION
LIMITS

CONSTRUCTION
LIMITS

RIP RAP

MATCHLINE SEE SHEET C118



AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 3

FOR WSD USE:

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL • STRUCTURAL • ENVIRONMENTAL

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C115

PROJECT NO. 81000927 SHEET 15 OF 40

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025
Sara Copeland, FAICP
Secretary of the City Plan Commission

KANSAS CITY MISSOURI

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G:\20004 - TODD CREEK CIVIL\07-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C115-GRADING PLAN 3.DWG

MATCHLINE SEE SHEET C121

MATCHLINE SEE SHEET C115

MATCHLINE SEE SHEET C117

MATCHLINE SEE SHEET C119

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

CL OF PROPOSED 5'
WIDE TRAPEZOIDAL SWALE

SIDEWALK (TYP.)
(SEE DETAIL
ON SHEET C134)

MAIN ROAD 2

MAIN ROAD 3

MAIN ROAD 4

FUTURE AGS BASINS
TOW EL: 879
TOF EL: 855
FG: 870

AGS BASINS
TOW EL: 879
TOF EL: 855
FG: 870

FUTURE AGS BASINS
TOW EL: 873
TOF EL: 849
FG: 864

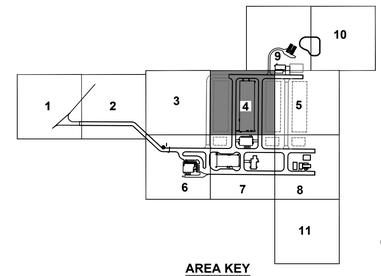
SIDEWALK (TYP.)
(SEE DETAIL ON
SHEET C134)

FOR DOOR STOOP
DETAILS (TYP)
(SEE STRUCTURAL
DRAWINGS)

CL OF PROPOSED 5'
WIDE TRAPEZOIDAL SWALE

NORTH LINE, SW 1/4
SECTION 1-T52N-R34W

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
20	1158661.4962	2740588.6091	868.66	BRD3
21	1158660.3376	2740732.7056	867.26	BRD4
22	1158658.8663	2740915.6997	865.50	BRD5
43	1158658.3839	2740975.6995	863.80	BACRD1



AREA KEY

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 4

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C116

PROJECT NO. 81000927 SHEET 16 OF 40

KCWATER
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL + STRUCTURAL ENGINEERING
WELLNER architects
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KANSAS CITY MISSOURI
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Secretary of the City Plan Commission

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MATCHLINE SEE SHEET C116

MATCHLINE SEE SHEET C121

MATCHLINE SEE SHEET C122

MATCHLINE SEE SHEET C120

MAIN ROAD 2

FUTURE MAIN ROAD

FUTURE FILTER BUILDING (BY OTHERS)

SERIES 600 UV DISINFECTION STRUCTURE FFE: 858

CONCRETE PAVEMENT (TYP.) (SEE DETAIL ON SHEET C134)

FUTURE AGS BASINS
TOW EL: 873
TOE EL: 843
FG: 858

APPROXIMATE ℄ 20' S.E. Doc. No. M-10249 Bk. 833, Pg. 117 ITEM 9 (See Title Notes for ITEM 9)

EAST LINE, NW 1/4, SECTION 1-T52N-R34W

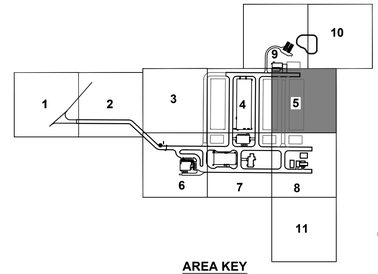
TREE LINE (Typical)

CONSTRUCTION LIMITS

FENCE (TYP.) (SEE DETAIL ON SHEET C136)

SE CORNER, NW 1/4, SECTION 1-T52N-R34W FND. 5/8" BAR

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
23	1158656.4934	2741210.8189	855.86	PI



AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 5

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C117

PROJECT NO. 81000927 SHEET 17 OF 40

KCWATER

CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

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KANSAS CITY, MO 64114
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LICENSEE NO. 000165

KANSAS CITY MISSOURI

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Secretary of the City Plan Commission

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MATCHLINE SEE SHEET C115

MATCHLINE SEE SHEET C119

CONSTRUCTION LIMITS

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

MAIN ROAD 1

MAIN ROAD 2

MAIN ROAD

DRIVEWAY 1
1+00

SEE SPECIFICATION 02765
FOR PAVEMENT MARKING

TREE LINE
(Typical)

SIDEWALK (TYP)
(SEE DETAIL ON DRAWING C134)

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

DROP FOOTING TO
ACCOMMODATE
PROPOSED GRADES.
(SEE STRUCTURAL PLANS.

ADMIN BUILDING
FFE: 875.50

CONSTRUCTION LIMITS

PROPOSED ELECTRICAL
PAD (TYP)

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

CONSTRUCTION LIMITS

FLOOD LINE

WIRE FENCE

-1.56%

-2.0%

-1.83%

3.47%

3.3%

3.43%

3.6%

3.66%

PC 0+27.04

PT 0+69.62

PC 1+60.96

PC 2+09.11

PC 2+29.09

PC 3+03.28

MH 1+48.35

MH 1+80.04

MH 2+60.83

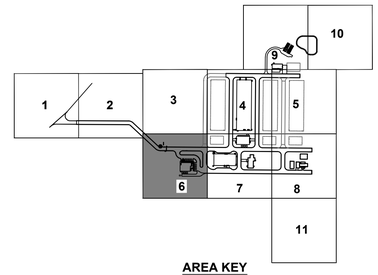
MH 2+78.58

MH 3+06.68

PT 2+78.32

CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	1158184.0098	2740237.4604	883.30	CTR
7	1158156.8904	2740212.2902	884.65	BC
8	1158149.6230	2740223.8022	883.98	MID
9	1158147.0110	2740237.1632	883.30	EC
12	1158147.1263	2740222.8105	883.98	PI
13	1158144.5180	2740547.4542	875.00	BRD2
15	1158026.3058	2740546.5044	873.80	BC
16	1158000.0566	2740557.1309	873.51	MID
19	1157989.3070	2740546.2072	873.51	PI
28	1158146.0405	2740357.9478	877.38	BDRWY1
29	1158119.0053	2740357.7268	876.93	BC
30	1158091.7330	2740384.6446	875.78	EC
31	1158118.7841	2740384.7773	877.04	CTR
32	1158091.0832	2740465.9888	875.25	BC
33	1158054.0844	2740465.6932	875.20	CTR
34	1158080.0265	2740492.0752	874.85	MID
35	1158053.7578	2740502.6918	874.46	EC
36	1158033.7796	2740502.5154	874.19	BC
37	1158002.8749	2740519.9103	873.68	MID
38	1158033.6408	2740538.4197	873.70	CTR
39	1158001.9853	2740555.3628	873.56	EC
40	1158099.7814	2740365.5243	876.08	MID



AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 6

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C118

PROJECT NO. 81000927

SHEET 18 OF 40

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL & STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

KANSAS CITY MISSOURI

City Plan Commission
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Sara Copeland, FAICP
Secretary of the City Plan Commission

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MATCHLINE SEE SHEET C116

MATCHLINE SEE SHEET C118

MATCHLINE SEE SHEET C120

FUTURE BLOWER BUILDING FFE: 871

BLOWER BUILDING FFE: 871

FUTURE BLOWER BUILDING FFE: 865

SOLIDS BUILDING FFE: 872

SERIES 300 HEADWORKS BUILDING ELEV: 871

CONCRETE PAVEMENT (TYP.) (SEE DETAIL ON SHEET C134)

SIDEWALK (TYP.) (SEE DETAIL ON SHEET C134)

PIPE BOLLARD ON EACH SIDE OF OVERHEAD DOOR (TYP) (SEE DETAIL ON SHEET C134)

PROPOSED BOLLARD (TYP.) (SEE DETAIL SHEET C134)

ASPHALT PAVEMENT (TYP.) (SEE DETAIL, SHEET C134)

FENCE (SEE DETAILS ON SHEET C136) (SEE SPEC SEC 02820)

TREE LINE

CONSTRUCTION LIMITS

PROPERTY LINE

FLOOD LINE

MAIN ROAD-1

MAIN ROAD-2

MAIN ROAD-4

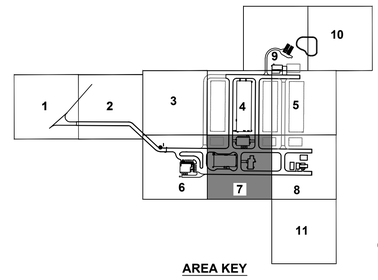
MAIN ROAD-5

MAIN ROAD-6

SOUTH LINE NORTHEAST 1/4 SECTION 36-T52N-R34W

EAST 1/2 25N / 34W

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
14	1158026.0085	2740583.5032	872.91	CTR
17	1157989.0097	2740583.2060	872.91	EC
24	1158143.0630	2740728.5502	871.86	ERD4
25	1158142.5838	2740788.2330	870.83	BRD6
26	1158141.5927	2740911.5443	870.00	ERD5
41	1157987.3726	2740786.9861	868.73	ERD6



AREA KEY

0 10' 20' 40'

SCALE IN FEET

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 7

FOR WSD USE:

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO

DATE COMPLETED:

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C119

PROJECT NO. 81000927

SHEET 19 OF 40

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

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Secretary of the City Plan Commission

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MATCHLINE SEE SHEET C117

MATCHLINE SEE SHEET C119

FUTURE BLOWER BUILDING FFE: 859

INFLUENT PUMP STATION ELECTRICAL BUILDING FFE: 859

VALVE VAULT STATION FFE: 856

INFLUENT PUMP STATION FFE: 856

INFLUENT SCREENING STRUCTURE FFE: 856

MAIN ROAD 1

MAIN ROAD 7

MAIN ROAD 2

PROPERTY LINE

FENCE
(SEE DETAILS ON SHEET C136)
(SEE SPEC SEC 02820)

FLOOD LINE

TREE LINE

CONSTRUCTION LIMITS

ASPHALT PAVEMENT (TYP.)
(SEE DETAIL ON SHEET C134)

POINT OF BEGINNING
SOUTH TRACT

NE CORNER SW 1/4
SECTION 1-52N-R34W
MO. STATE BAR

SE CORNER SW 1/4
SECTION 1-52N-R34W

S00°27'39"W
327.69'

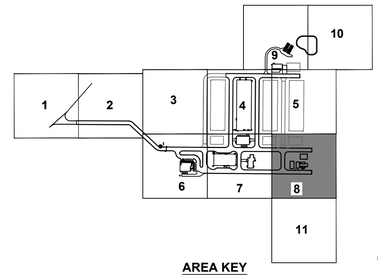
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-3:1:1

3.0:1

40.6:1

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	1158138.4935	2741297.2798	860.00	PI
18	1157983.2828	2741296.0579	856.00	PI
27	1158140.1224	2741094.5403	858.20	BRD7
42	1157984.9118	2741093.2922	856.17	ERD7



AREA KEY

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 8

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C120

PROJECT NO. 81000927

SHEET 20 OF 40

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

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CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
44	1158788.5219	2740976.7451	856.69	BC
45	1158788.0078	2741040.7430	853.37	CTR
46	1158843.6748	2741009.1649	852.79	MID
47	1158843.2030	2741073.1388	845.99	EC
48	1158793.3574	2741158.0343	843.17	EACRD1

FENCE
(SEE DETAILS ON SHEET C136)
(SEE SPEC SEC 02820)

CONSTRUCTION LIMITS

DETENTION BASIN
(SEE DETAIL SHEET C137)

FUTURE CASCADE AERATION

CASCADE AERATION TOW EL: 848

RIP RAP

TREE LINE (Typical)

Approx limits of Floodway Areas in Zone AE (100) Year Flood)

ACCESS ROAD 1

SWALE CL

CONCRETE PAVEMENT (TYP.)
(SEE DETAIL ON SHEET C134)

PROPOSED BOLLARD (TYP.)
(SEE DETAIL SHEET C134)

GRAVEL ROAD (TYP.)
(SEE DETAIL ON SHEET C123)

FOR DOOR STOOP DETAILS (TYP)
(SEE STRUCTURAL SHEETS)

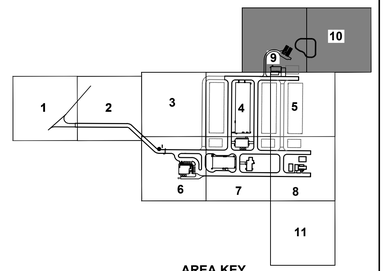
SERIES 600
UV DISINFECTION
STRUCTURE
FFE: 858

FUTURE FILTER
BUILDING
(BY OTHERS)

MATCHLINE SEE SHEET C116

MATCHLINE SEE SHEET C117

MATCHLINE SEE SHEET C117



AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 9

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C121

PROJECT NO. 81000927

SHEET 21 OF 40

KCWATER

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DuBois Consultants
CIVIL & STRUCTURAL ENGINEERING

WELLNER architects

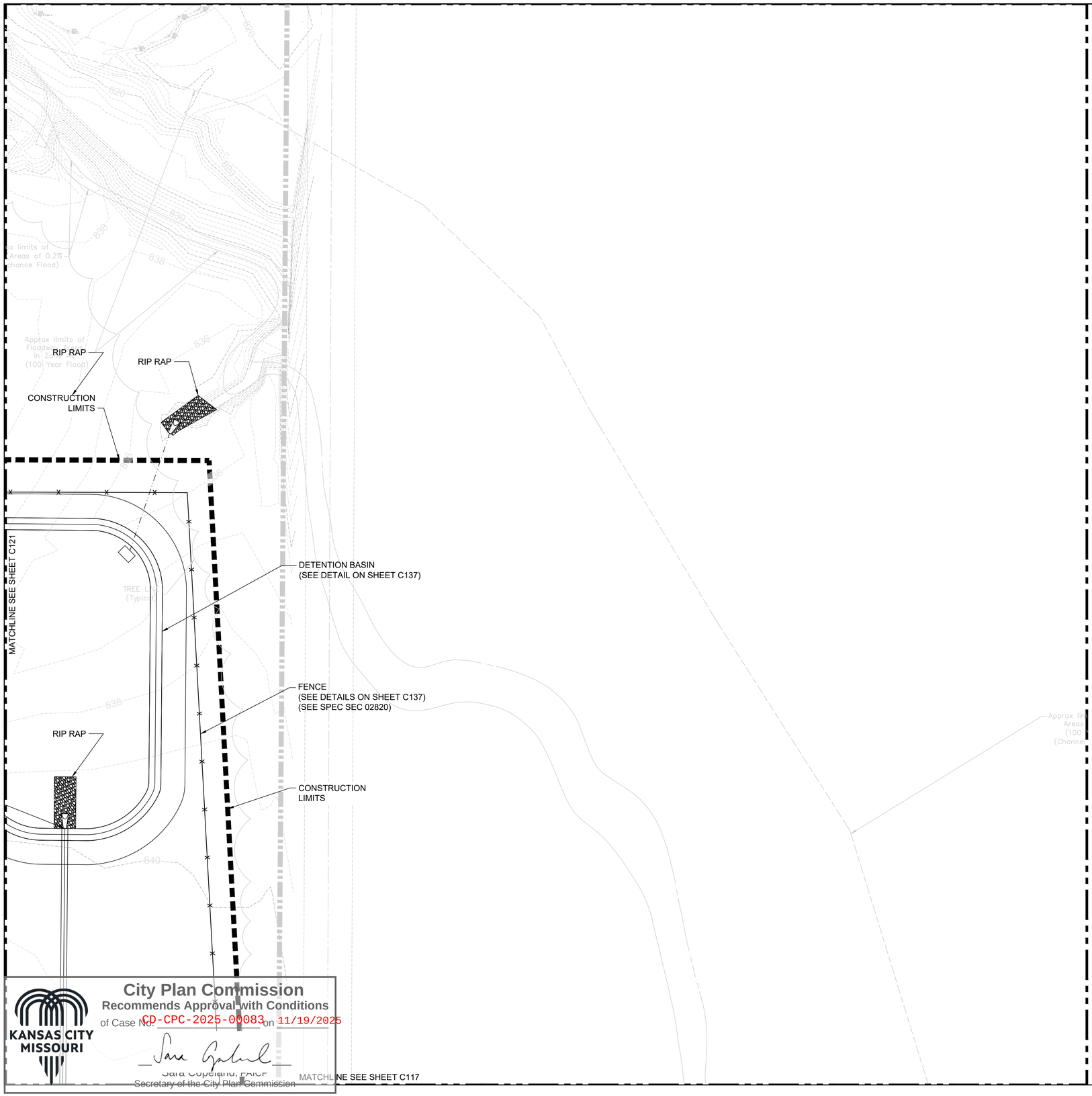
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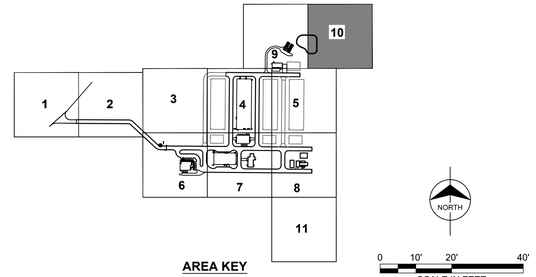
KANSAS CITY MISSOURI

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AREA KEY

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 10

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C122

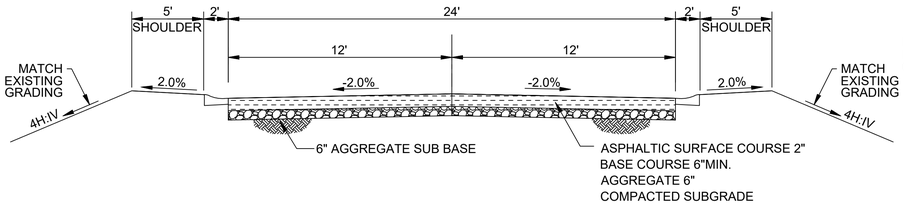
PROJECT NO. 81000927 SHEET 22 OF 40

KCWATER
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

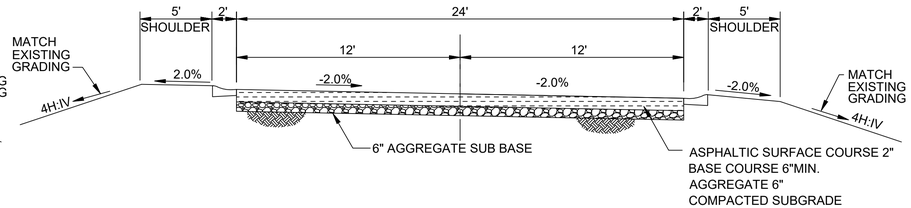
KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025
Sara Copeland, FAICP
Secretary of the City Plan Commission

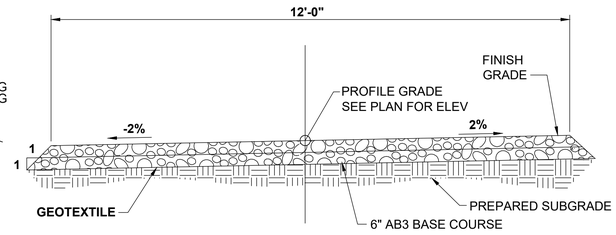
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TYPICAL ASPHALT ROAD SECTION
NOT TO SCALE



TYPICAL 2% CROSS SLOPE ASPHALT ROAD SECTION
NOT TO SCALE



ACCESS ROAD 1
NOT TO SCALE

SIGN LEGEND

= STOP SIGN

= HANDICAP PARKING SIGN

NOTES:

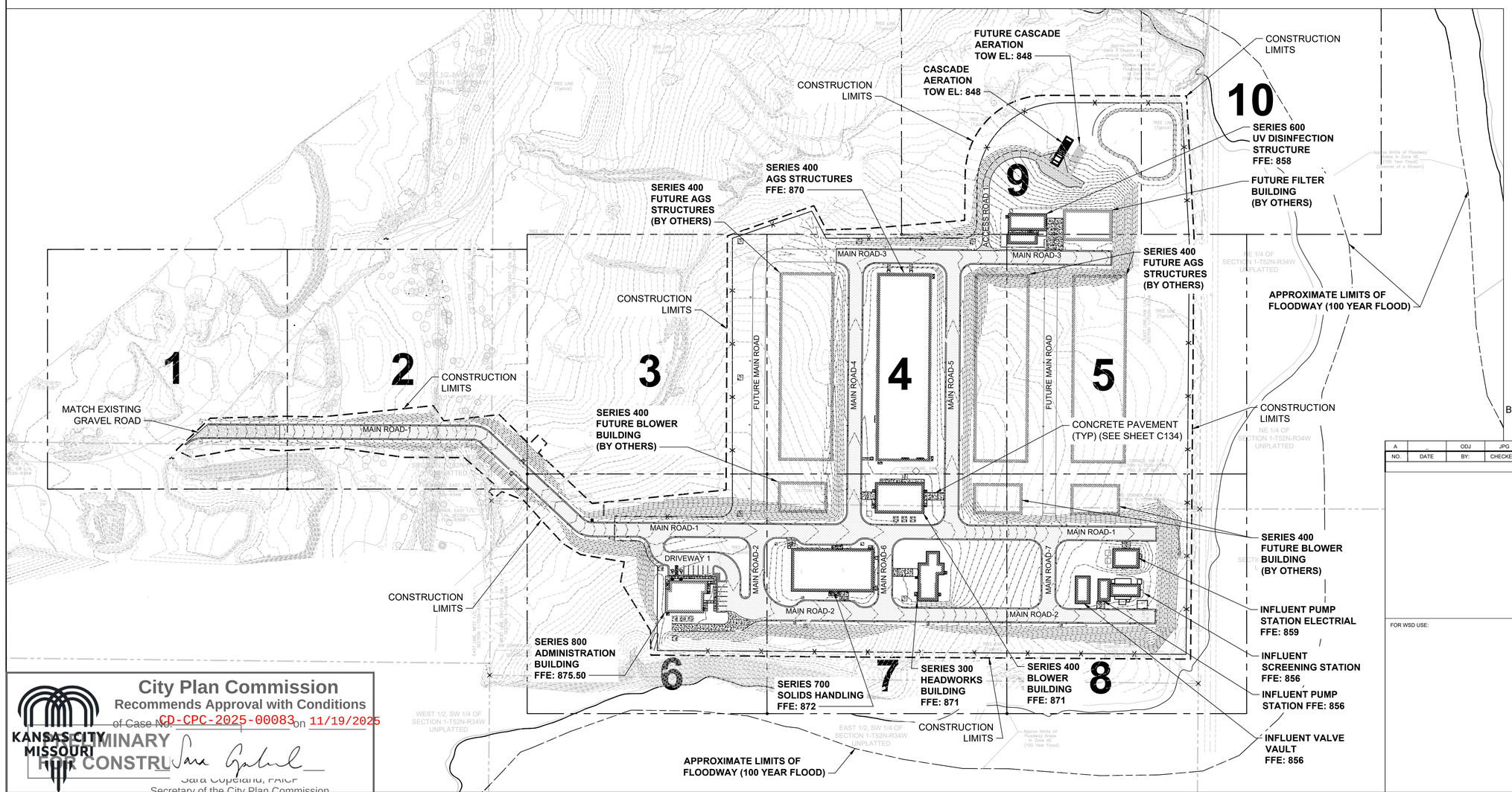
1. SEE SHEET C103-C111 FOR FENCE COORDINATE TABLES.
2. SEE SHEET C134 FOR PAVEMENT DETAILS.
3. SEE SHEET C134 FOR CONCRETE WALK DETAILS.
4. MAINTAIN 20' CLEAR ZONE CENTERED ON FENCE.

PAVEMENT LEGEND

= ASPHALTIC PAVEMENT

= CONCRETE SIDEWALK

= GRAVEL SURFACING



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KCWATER
CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING
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CIVIL • STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

NORTH
0 50' 100'
SCALE IN FEET

NO.	DATE	BY:	CHECKED:	DESCRIPTION
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REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

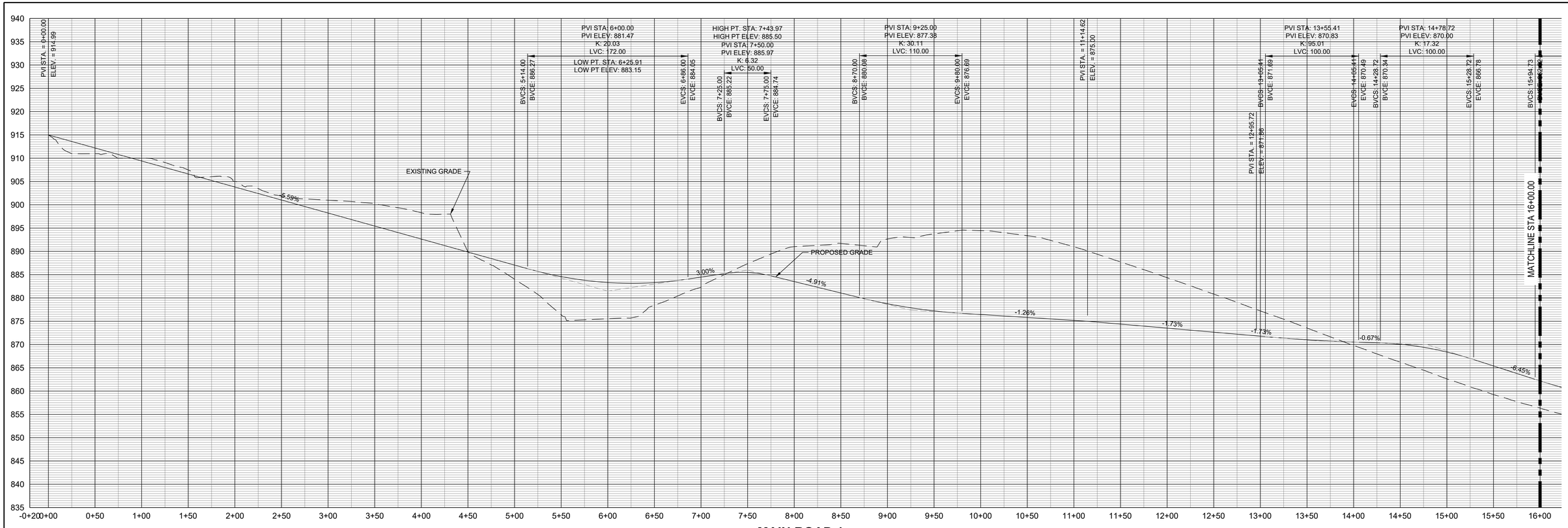
14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL SITE ROAD PLAN

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01
CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO			DATE COMPLETED		
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.	
1698				C123	
PROJECT NO.			SHEET	23 OF	40
81000927					

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G:\Z0004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C123-GENERAL SITE ROAD PLAN.DWG



MAIN ROAD 1

0 10' 20'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 50' 100'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

ROAD PROFILES 1

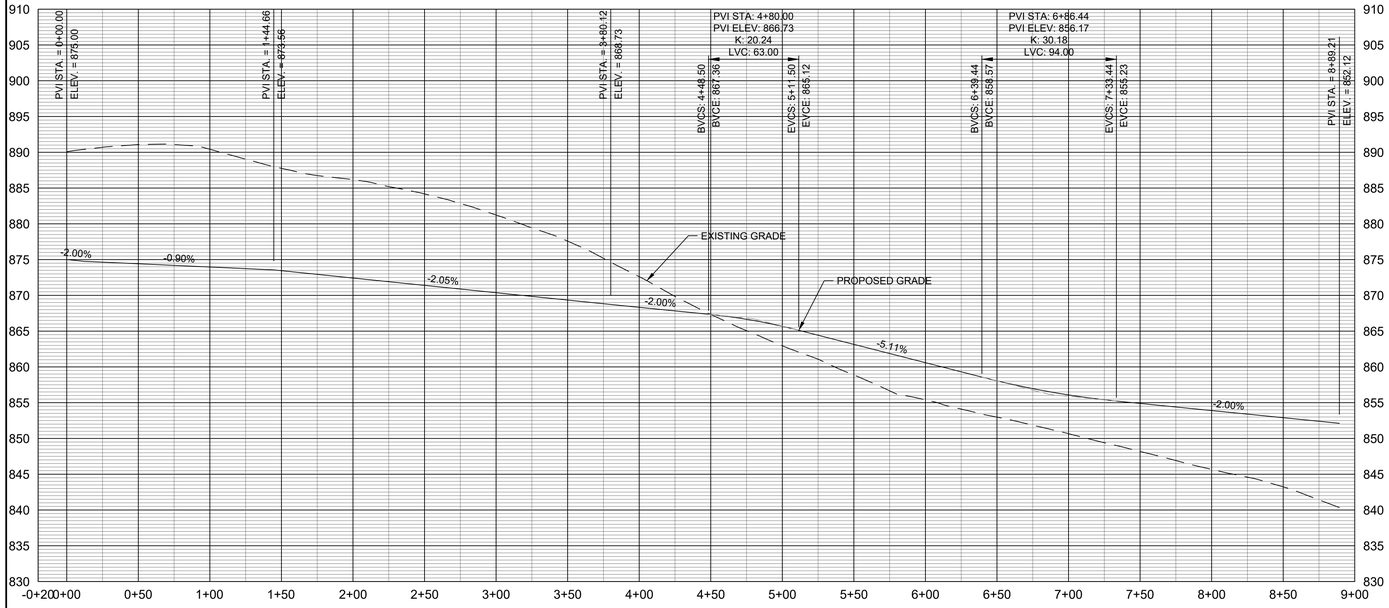
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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

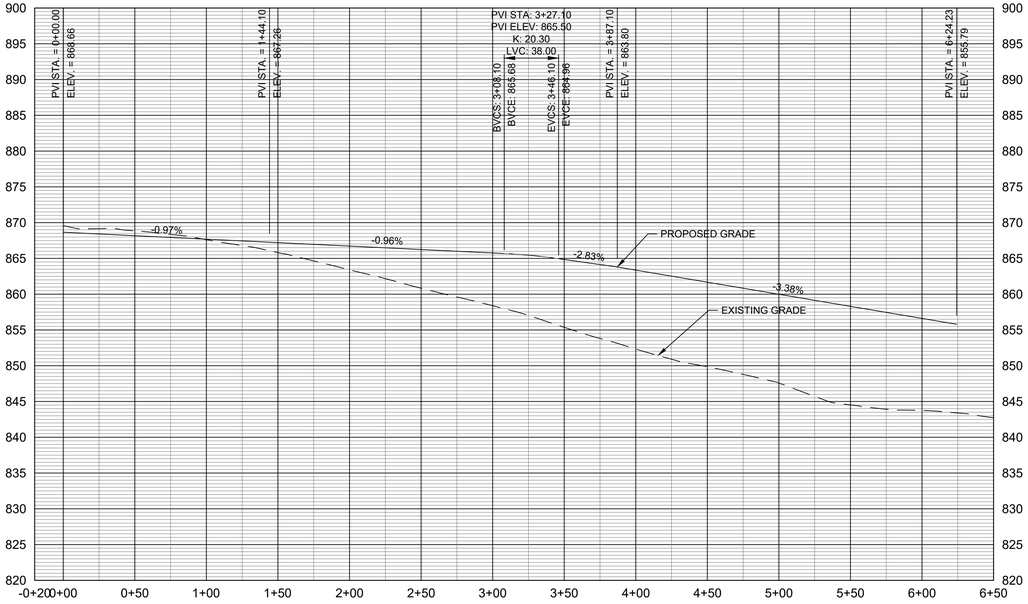
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C124

PROJECT NO.	SHEET 24 OF 40
81000927	

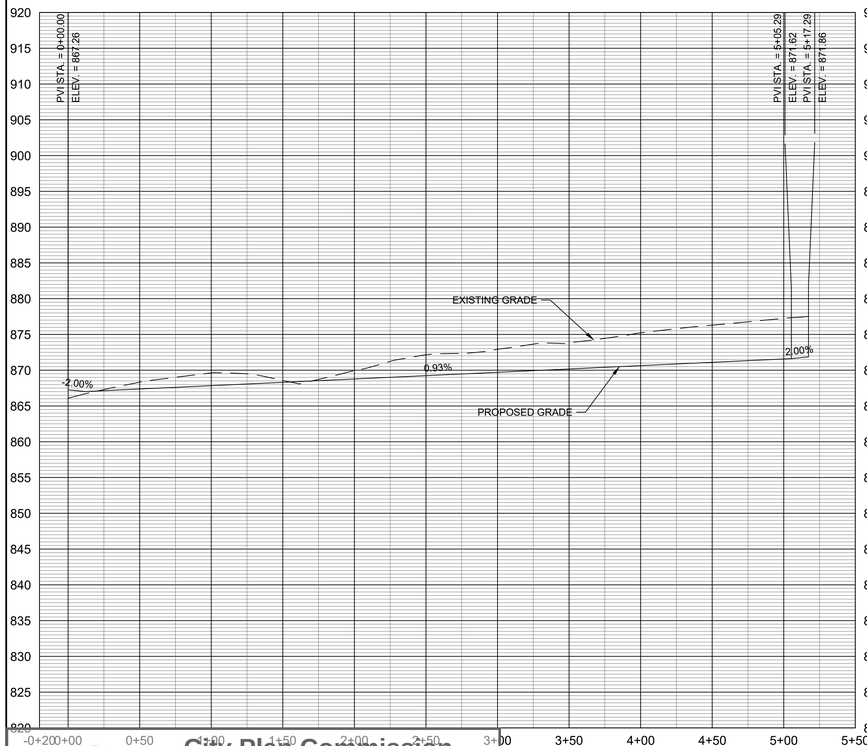
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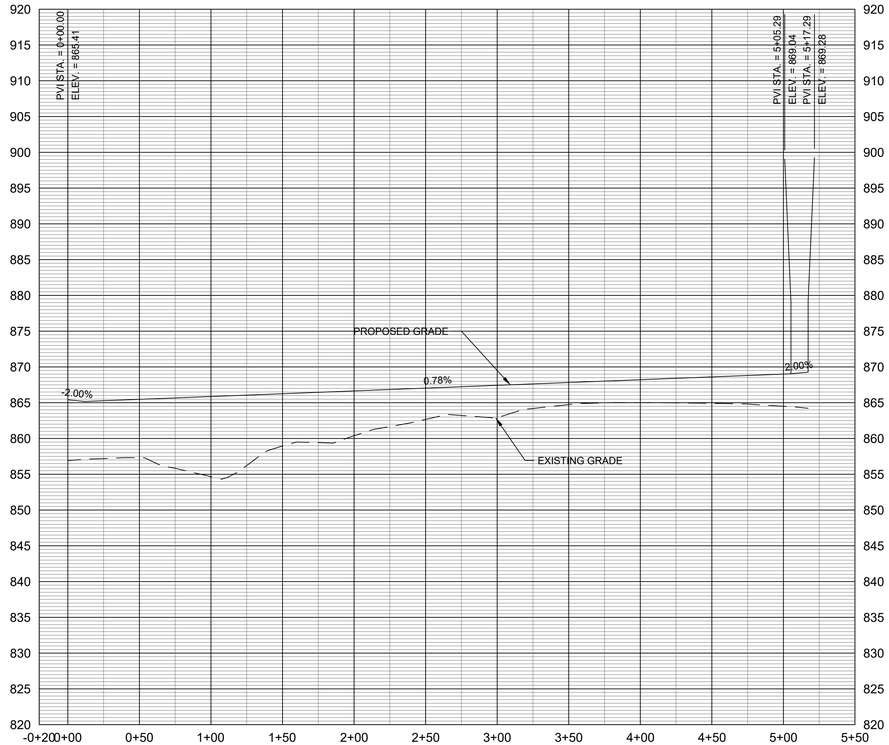
MAIN ROAD 2



MAIN ROAD 3



MAIN ROAD 4



MAIN ROAD 5

City Plan Commission
Recommends Approval with Conditions
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Sara Copeland, FAICP
Secretary of the City Plan Commission

KANSAS CITY MISSOURI

KCWATER SERVICES

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DuBois Consultants civil • structural • geotechnical

WELLNER architects

BURNS McDONNELL

9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

0 10' 20'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 50' 100'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

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TODD CREEK WWTP EXPANSION AND UPGRADE

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ROAD PROFILES 2-5

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

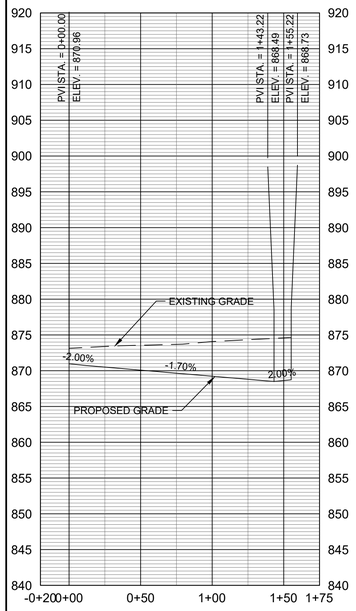
CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C125

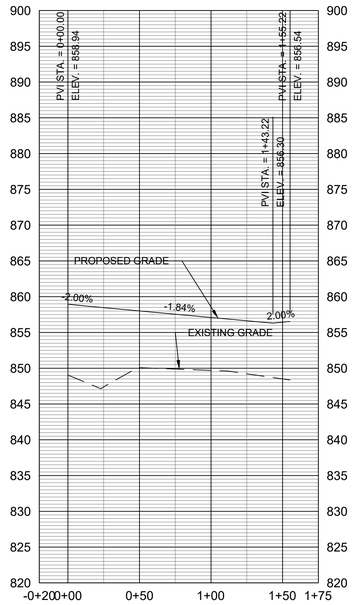
PROJECT NO. 81000927

SHEET 25 OF 40

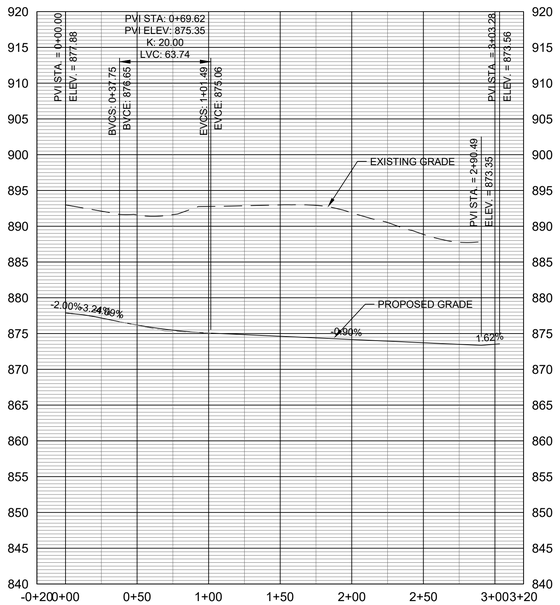
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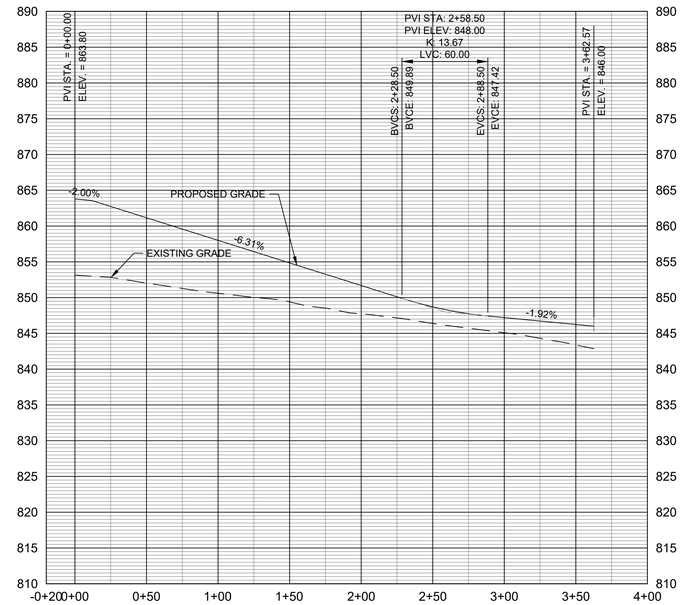
MAIN ROAD 6



MAIN ROAD 7



DRIVEWAY 1



ACCESS ROAD 1

KCWATER SERVICES

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL

9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

0 10' 20'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 50' 100'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

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TODD CREEK WWTP EXPANSION AND UPGRADE

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ROAD PROFILES 6-7, DRIVEWAY 1 AND ACCESS ROAD 1

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C126

PROJECT NO. 81000927

SHEET 26 OF 40

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

Sara Copeland, FAICP
Secretary of the City Plan Commission

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STORMWATER SCHEDULE				
NO	DESCRIPTION	NORTHING	EASTING	INVERT ELEVATION
1	CURB INLET	1158130.31	2740313.61	872.39
2	CURB INLET	1158162.49	2740313.78	872.23
3	CURB INLET	1158160.97	2740502.58	868.11
4	CURB INLET	1158159.63	2740683.74	866.21
5	CURB INLET	1158192.93	2740745.04	864.12
6	CURB INLET	1158402.22	2740746.72	862.89
7	CURB INLET	1158615.23	2740748.44	860.90
8	CURB INLET	1158676.29	2740749.87	860.59
9	CURB INLET	1158674.82	2740933.03	856.23
10	CURB INLET	1158672.64	2741204.95	850.00
11	5" MH	1158671.44	2741291.51	838.50
12	CURB INLET	1157973.10	2740560.13	864.90
13	CURB INLET	1157970.88	2740836.94	859.96
14	CURB INLET	1157968.42	2741143.33	852.64
15	CURB INLET	1157967.28	2741285.91	851.00
16	CURB INLET	1158155.07	2741287.44	855.50
17	5' MH	1158417.73	2741289.47	839.75
18	CURB INLET	1158411.61	2740929.81	860.09
19	CURB INLET	1158411.84	2740897.63	860.25
20	CURB INLET	1158156.58	2741049.58	859.35

STORMWATER SCHEDULE				
NO	DESCRIPTION	NORTHING	EASTING	INVERT ELEVATION
21	CURB INLET	1158124.39	2741049.41	859.51
22	CURB INLET	1158128.79	2740502.33	868.41
23	CURB INLET	1158402.45	2740714.54	862.43
24	CURB INLET	1158615.47	2740716.26	860.28
25	CURB INLET	1158003.06	2740837.11	872.39
26	CURB INLET	1158000.60	2741143.50	852.80
27	15" FLARED END SECTION	1158231.40	2740067.33	877.00
28	15" FLARED END SECTION	1158295.90	2740127.19	875.00
29	15" FLARED END SECTION	1158807.79	2741292.63	838.00

CASCADE AERATION TOW EL: 848

SERIES 600 UV DISINFECTION STRUCTURE FFE: 858

FUTURE CASCADE AERATION

DRY DETENTION BASIN
0.5 ACRES
BOTTOM ELEV = 835.00
WQV = 836.00
100 YEAR = 837.00

STORM SEWER END SECTION WITH RIP RAP (TYP) (SEE DETAIL ON SHEET C134)

PROPOSED FENCE

CONSTRUCTION LIMITS

TRAPEZOIDAL DITCH

SERIES 400 AGS STRUCTURES FFE: 870

SERIES 400 FUTURE AGS STRUCTURES (BY OTHERS)

DETENTION POND

SERIES 400 FUTURE AGS STRUCTURES (BY OTHERS)

STORM LINE 14

STORM LINE 5

EQUIPMENT PAD LOCATIONS REFERENCE ELECTRICAL (SEE SHEET E017)

CONSTRUCTION LIMITS

INFLUENT PUMP STATION ELECTRIAL FFE: 859

STORM SEWER END SECTION WITH RIP RAP (TYP) (SEE DETAIL ON SHEET C134)

SERIES 800 ADMINISTRATION BUILDING FFE: 875.50

EQUIPMENT PAD LOCATIONS REFERENCE ELECTRICAL (SEE SHEET E017)

CONSTRUCTION LIMITS

SERIES 700 SOLIDS HANDLING FFE: 872

PROPOSED FENCE

SERIES 300 HEADWORKS BUILDING FFE: 871

INFLUENT VALVE VAULT FFE: 856

INFLUENT PUMP STATION FFE: 856

INFLUENT SCREENING STATION FFE: 856

SERIES 400 BLOWER BUILDING FFE: 871

SERIES 400 FUTURE BLOWER BUILDING (BY OTHERS)

SERIES 400 FUTURE BLOWER BUILDING (BY OTHERS)

MAIN ROAD-1 · MAIN ROAD-2 · MAIN ROAD-3 · MAIN ROAD-4 · MAIN ROAD-5 · MAIN ROAD-6 · MAIN ROAD-7 · ACCESS ROAD-1 · FUTURE MAIN ROAD

STORM LINE 1 · STORM LINE 2 · STORM LINE 3 · STORM LINE 4 · STORM LINE 5 · STORM LINE 6 · STORM LINE 7 · STORM LINE 8 · STORM LINE 9 · STORM LINE 10 · STORM LINE 11 · STORM LINE 12 · STORM LINE 13

1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10

0 50' 100'
SCALE IN FEET

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PLAN

FOR WSD USE:

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

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9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01
CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO				DATE COMPLETED	
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.	
1698				C127	
PROJECT NO. 81000927			SHEET 27 OF 40		

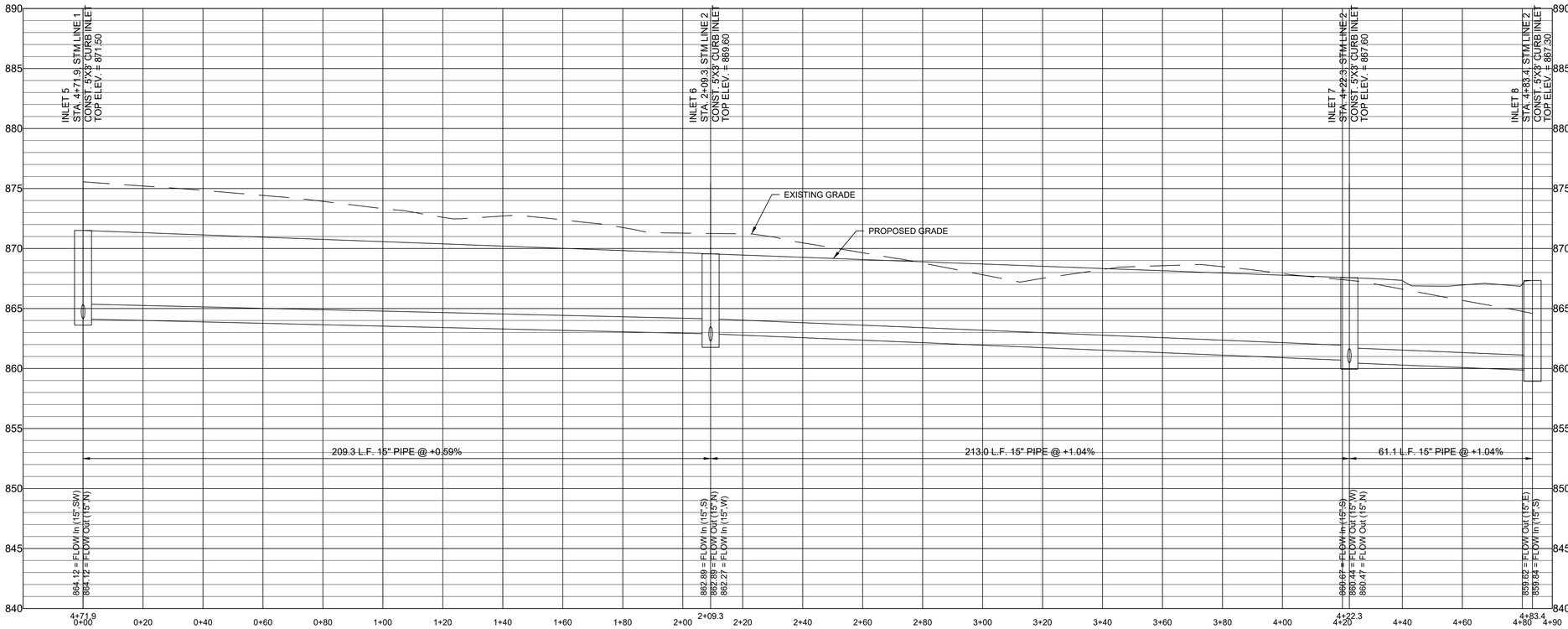
KANSAS CITY MISSOURI

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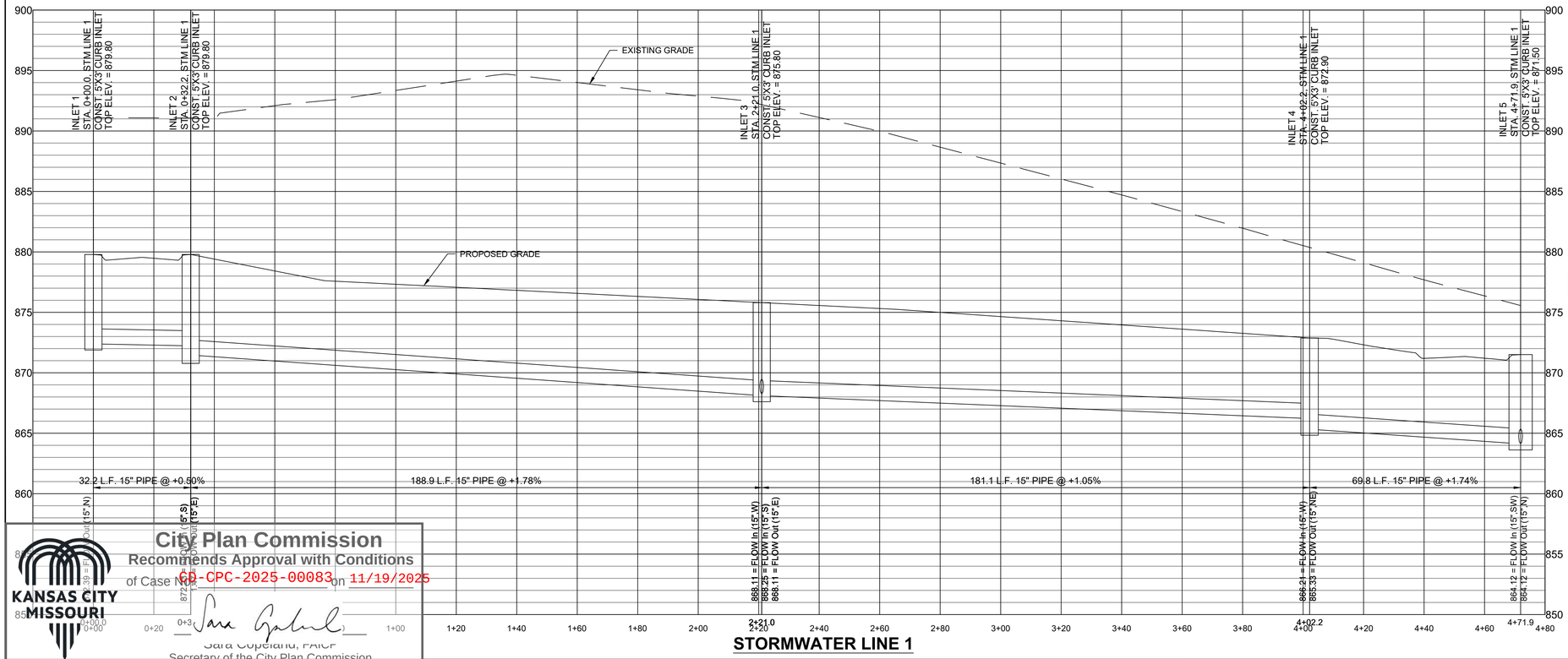
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STORM PROFILE 2



STORMWATER LINE 2



STORMWATER LINE 1

KCWATER

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816-333-9400
LICENSEE NO. 000165

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NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

NO.	DATE	BY:	CHECKED:	DESCRIPTION
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REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 1 AND 2

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C128

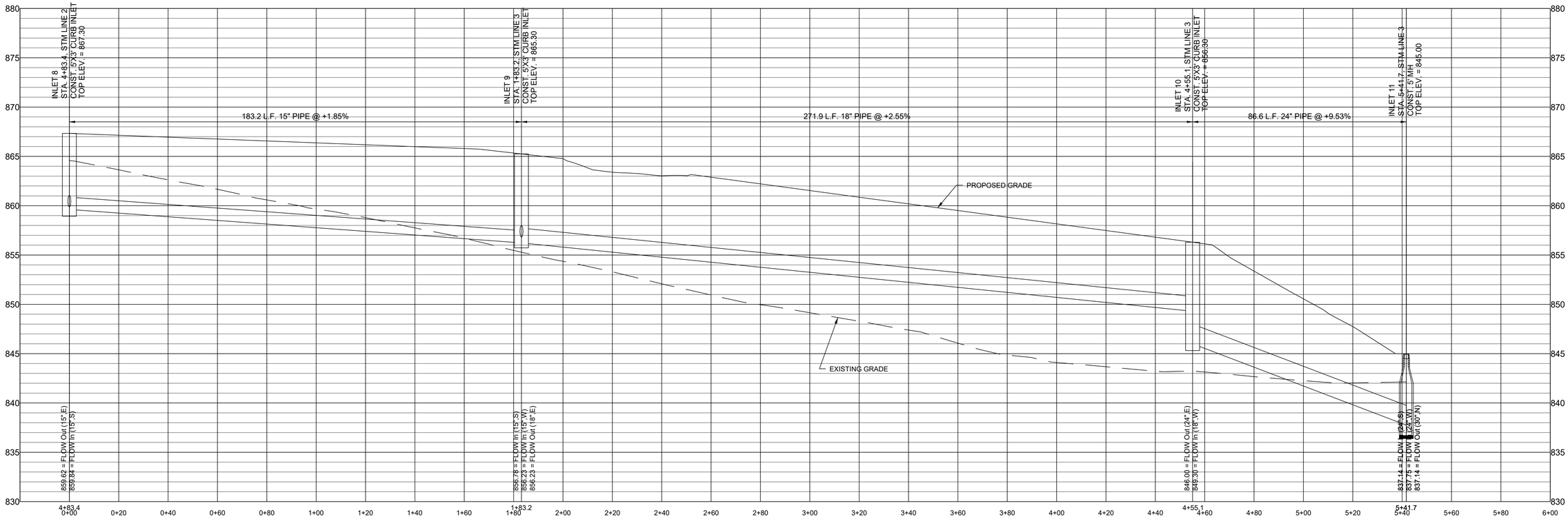
PROJECT NO. 81000927 SHEET 28 OF 40

KANSAS CITY MISSOURI

City Plan Commission
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G:\426004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C128-133 STORMWATER PROFILE.DWG

STORM PROFILE 3



STORMWATER LINE 3

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

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TODD CREEK WWTP EXPANSION AND UPGRADE

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STORMWATER PROFILES 3

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C129

PROJECT NO. 81000927

SHEET 29 OF 40

KCWATER SERVICES

CUSTOM ENGINEERING
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WELLNER architects

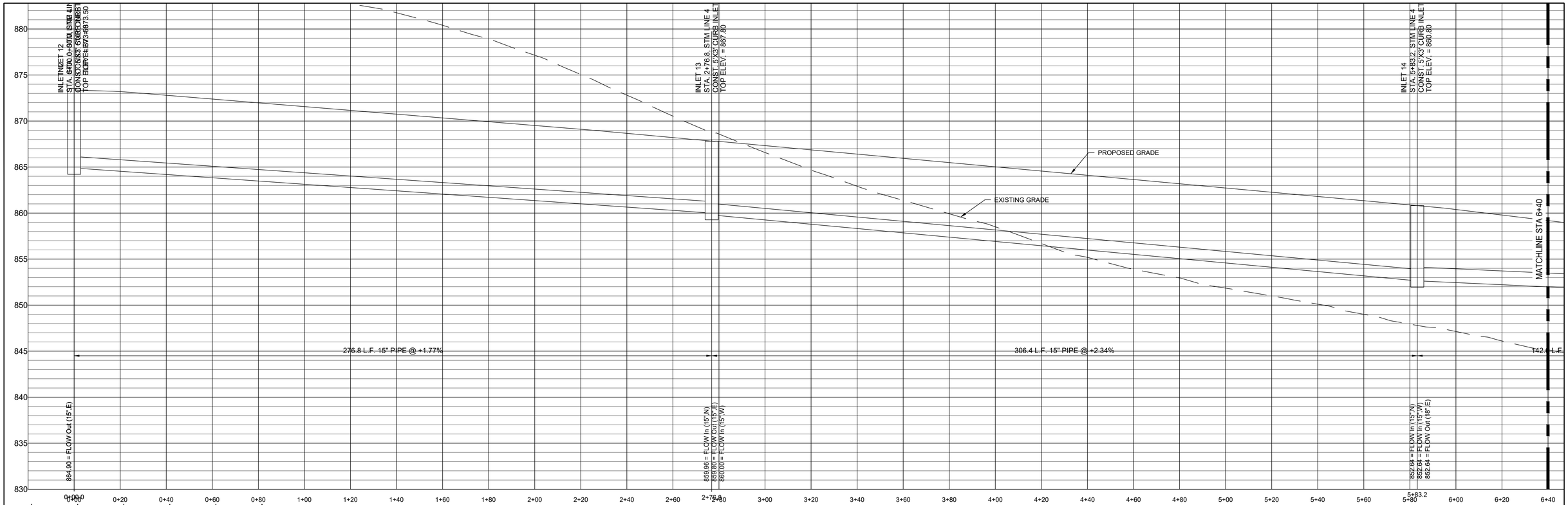
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9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

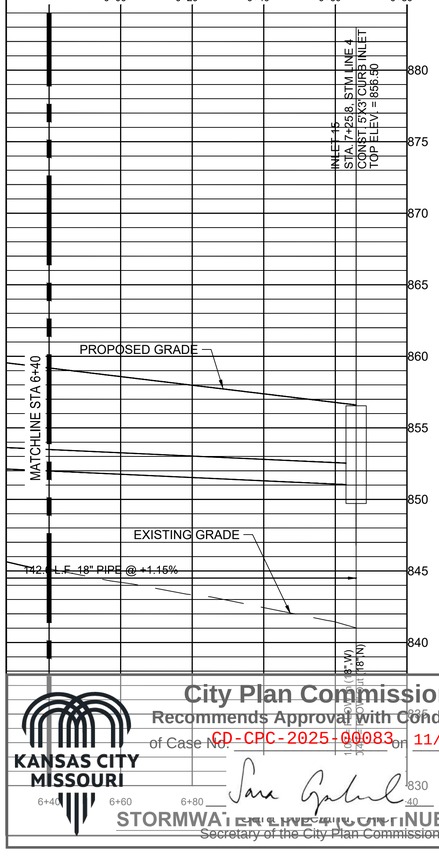
PRELIMINARY - NOT FOR CONSTRUCTION

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025
Sara Copeland
Sara Copeland, FAICP
Secretary of the City Plan Commission

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G:\26\0004 - TODD CREEK CIVIL\07-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C128-133 STORMWATER PROFILE.DWG





NOTE:

1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

City Plan Commission
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Secretary of the City Plan Commission

KANSAS CITY MISSOURI

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 4

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

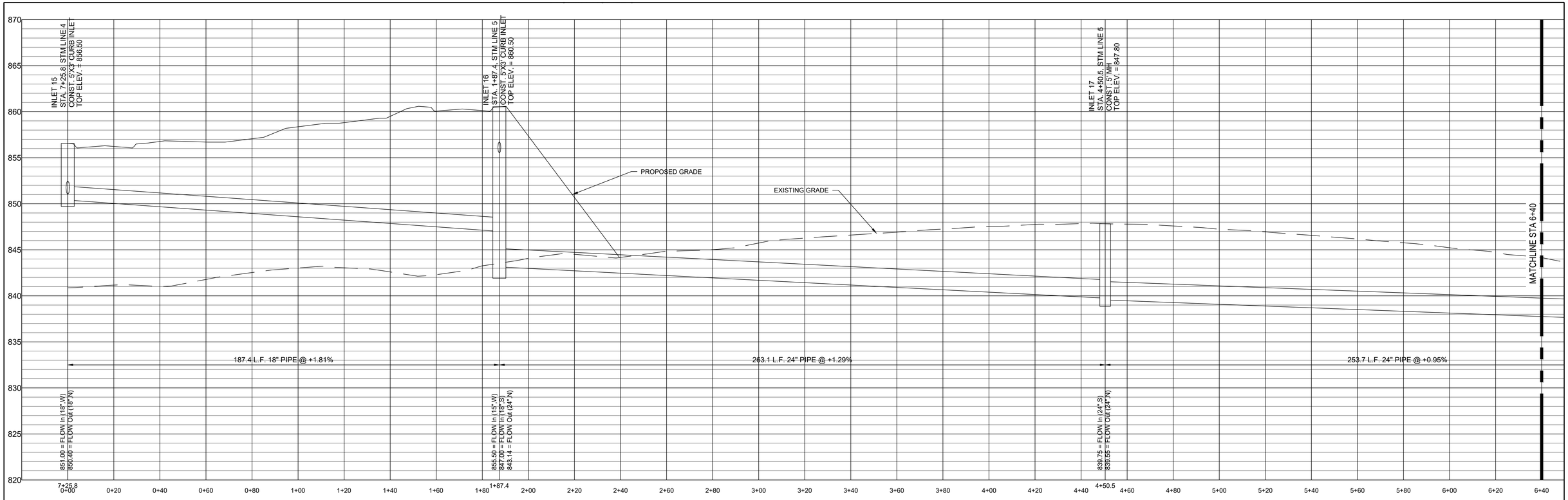
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1698				C130

PROJECT NO. 81000927 SHEET 30 OF 40

PRELIMINARY - NOT FOR CONSTRUCTION

KCWATER SERVICES
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL + STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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STORMWATER LINE 5

STORMWATER LINE 5 (CONTINUED)

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

City Plan Commission
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Sara Gabriel
Secretary of the City Plan Commission

KANSAS CITY MISSOURI

PRELIMINARY - NOT FOR CONSTRUCTION

KCWATER SERVICES
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DuBois Consultants CIVIL & STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 5

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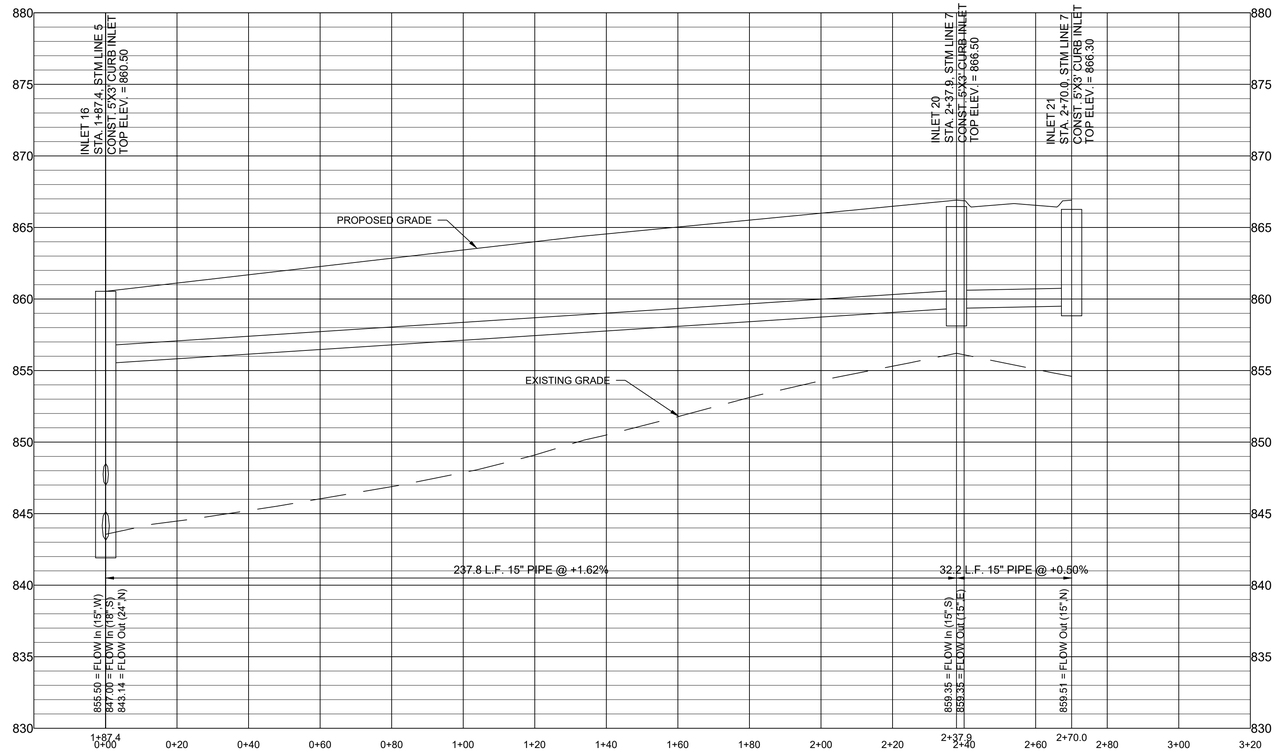
CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
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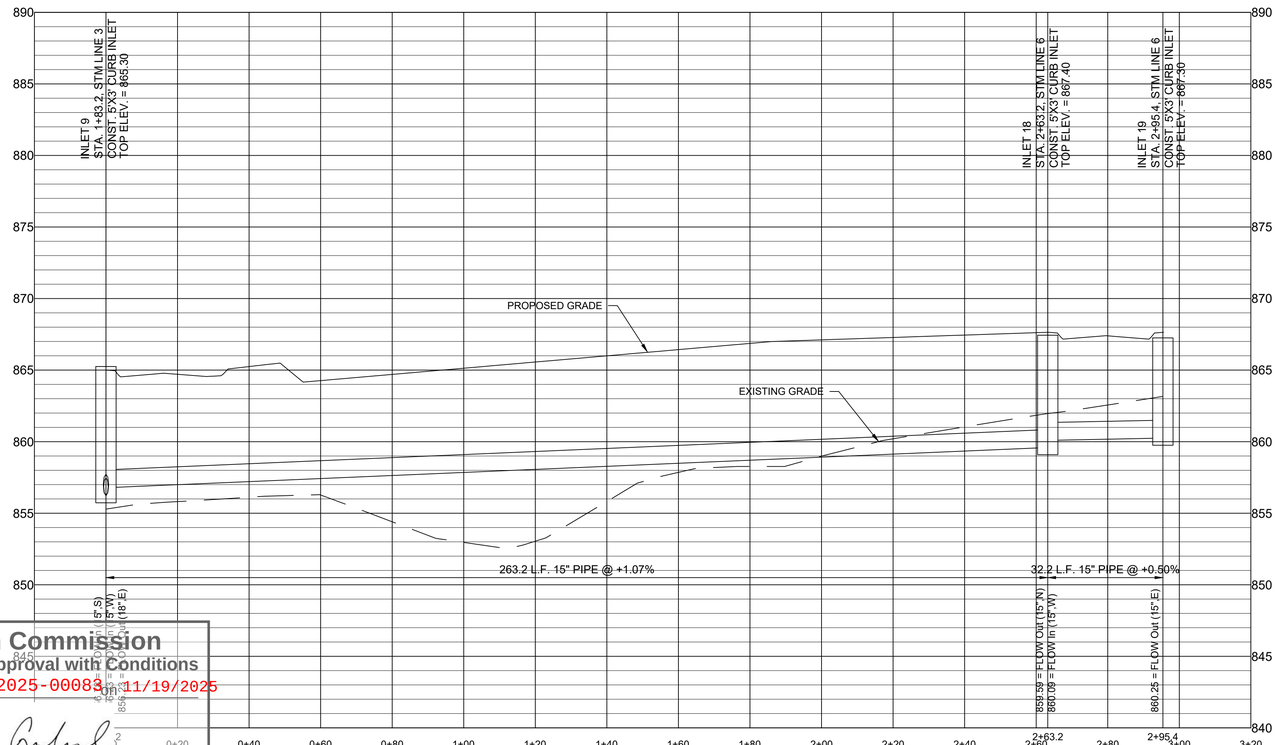
PROJECT NO. 81000927

SHEET 31 OF 40

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STORMWATER LINE 7



STORMWATER LINE 6

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 6 AND 7

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C132

PROJECT NO. 81000927 SHEET 32 OF 40

KCWATER SERVICES

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

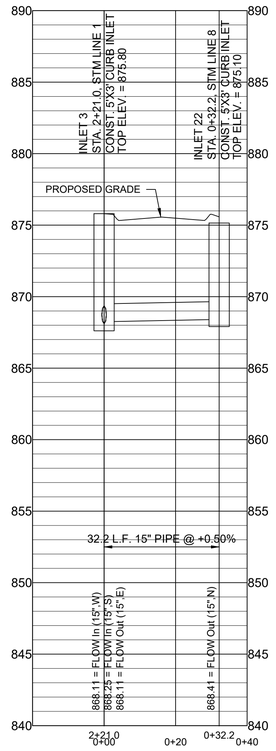
WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

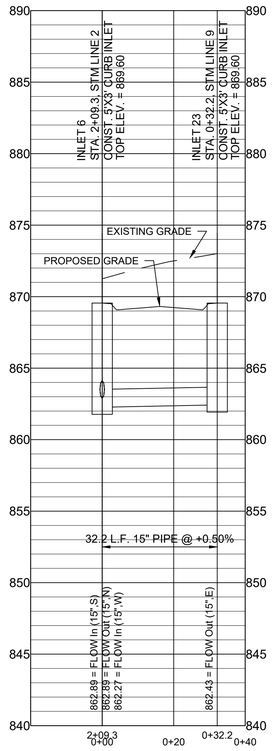
KANSAS CITY MISSOURI

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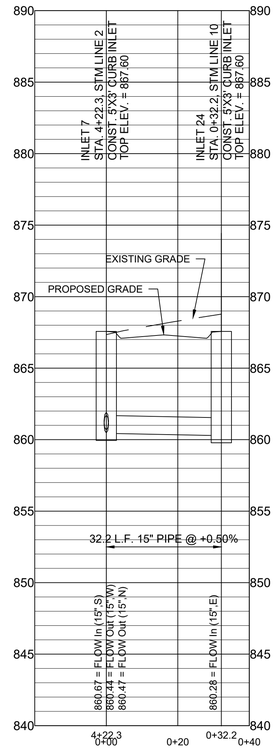
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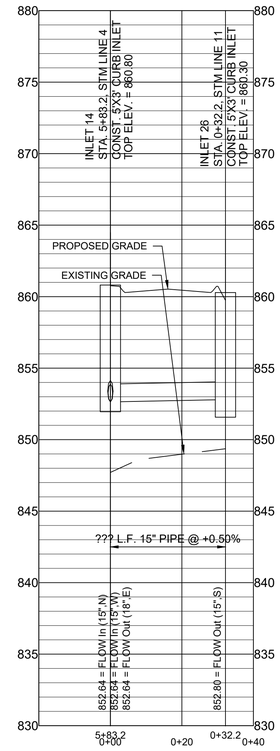
STORMWATER LINE 8



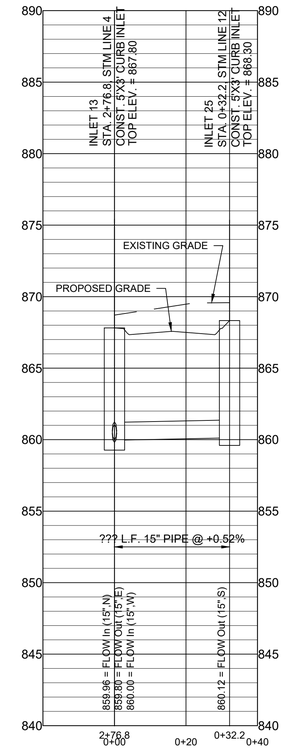
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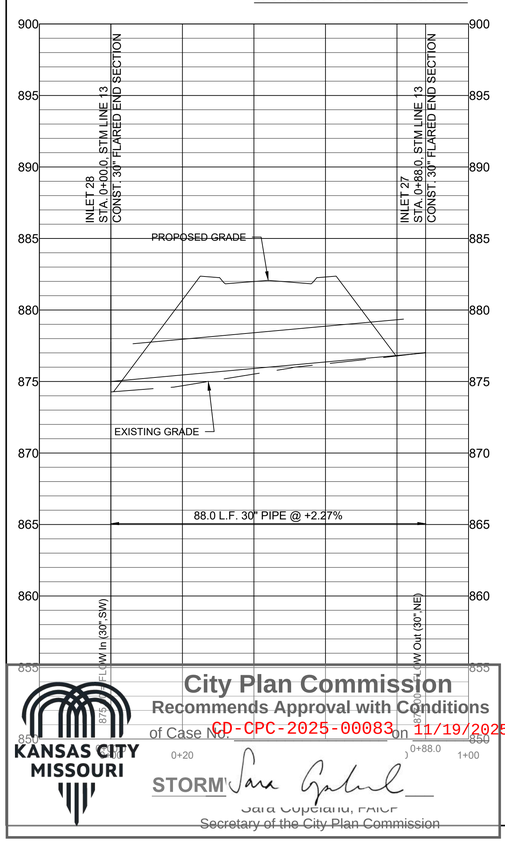
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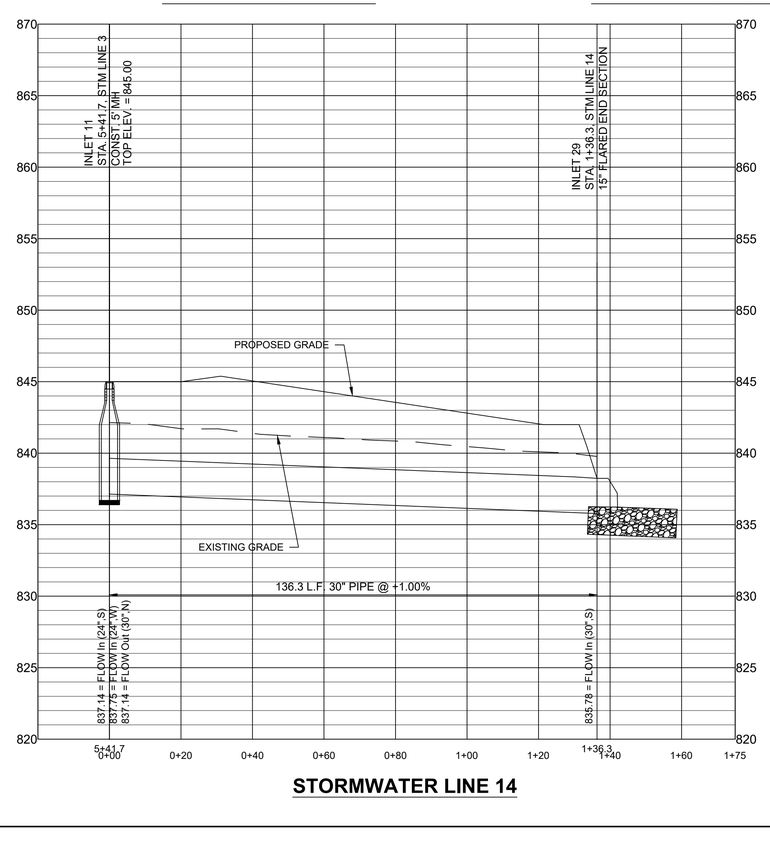
STORMWATER LINE 11



STORMWATER LINE 12



STORMWATER LINE 13



STORMWATER LINE 14

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

SCALE IN FEET
VERTICAL SCALE IN FEET
0 4' 8'
SCALE IN FEET
HORIZONTAL SCALE IN FEET
0 10' 20' 40'

City Plan Commission
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PRELIMINARY - NOT FOR CONSTRUCTION

KCWATER SERVICES
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DuBois Consultants CIVIL • STRUCTURAL ENGINEERING
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BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
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816-333-9400
LICENSEE NO. 000165

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 8-12

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
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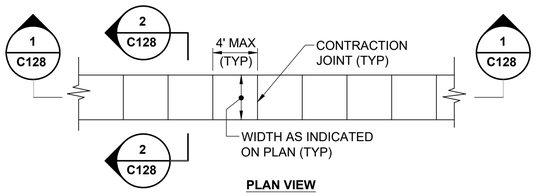
CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C133

PROJECT NO. 81000927

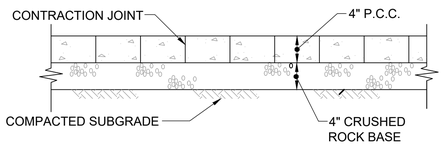
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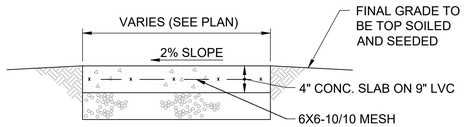


PLAN VIEW

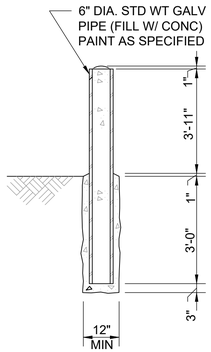
TYPICAL SIDEWALK DETAIL
NOT TO SCALE



SECTION 1
NOT TO SCALE

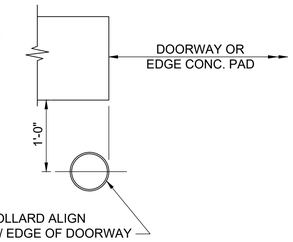


SECTION 2
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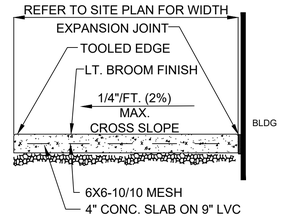


BOLLARD
NOT TO SCALE

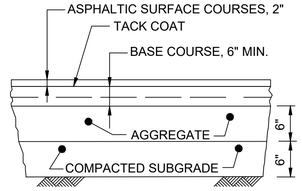
NOTE:
TYPICAL ALL OVERHEAD DOORWAYS



BOLLARD INSTALLATION
TYPICAL DETAIL
NOT TO SCALE

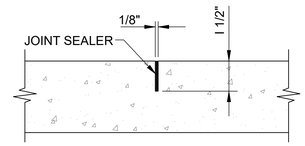


TYPICAL CONCRETE WALK @ BLDG. WALL
NOT TO SCALE

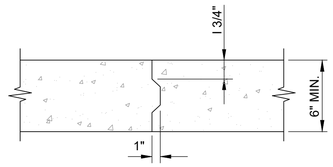


NOTE:
FOR NON-PARKING LOT AREAS

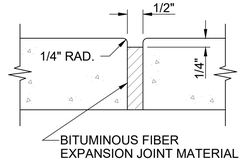
TYPICAL PARKING LOT PAVEMENT SECTION
NOT TO SCALE



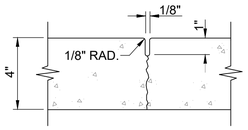
CONTRACTION JOINT
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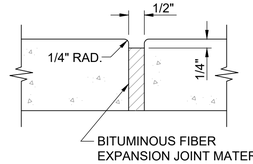
TRANSVERSE CONSTRUCTION JOINT
NOT TO SCALE



EXPANSION JOINT
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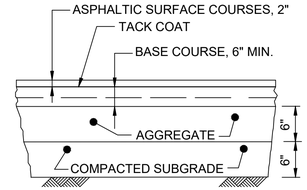


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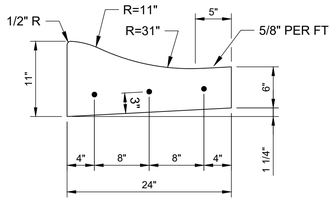


EXPANSION JOINT

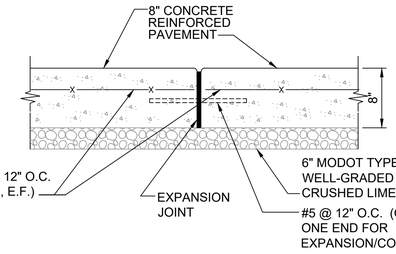
SIDEWALK JOINT DETAILS
NOT TO SCALE



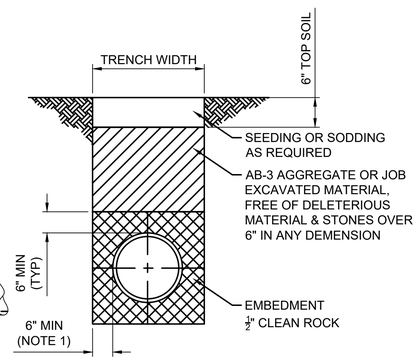
TYPICAL FULL DEPTH ASPHALT PAVEMENT SECTION
NOT TO SCALE



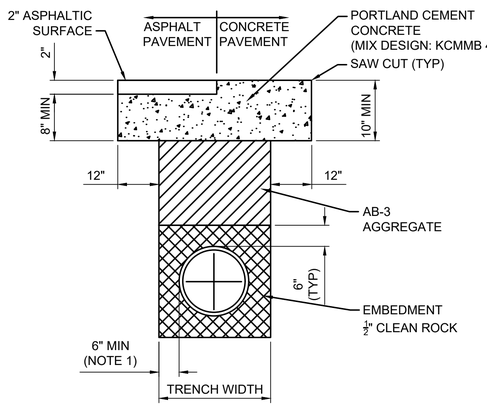
TYPE CG-2
ROLL BACK CURB & GUTTER



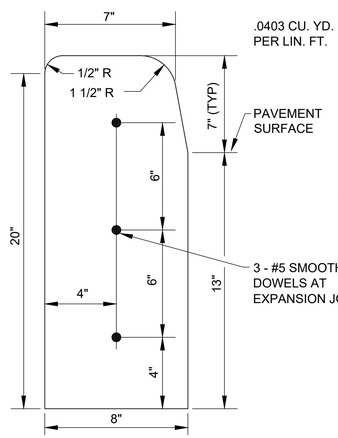
TYPICAL CONCRETE PAVEMENT SECTION
NOT TO SCALE



PIPE EMBEDMENT - BACKFILL UNDER NON-PAVED AREAS
NOT TO SCALE
NOTES:
1. FOR HDPE PIPE WITH NOMINAL PIPE OUTSIDE DIAMETER GREATER THAN 24", MINIMUM CLEARANCE FROM TRENCH WALL TO PIPE WALL SHALL BE 12".

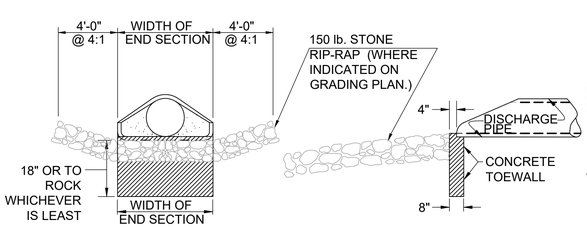


PIPE EMBEDMENT - BACKFILL UNDER PAVED AREAS
NOT TO SCALE
NOTE:
1. IF THE TRENCH WIDTH IS LESS THAN OR EQUAL 24", IT SHALL BE BACKFILLED WITH FLOWABLE FILL. FLOWABLE FILL MIX DESIGN TO BE APPROVED BY THE CITY PRIOR TO PLACEMENT.
2. FOR HDPE PIPE WITH NOMINAL PIPE OUTSIDE DIAMETER GREATER THAN 24", MINIMUM CLEARANCE FROM TRENCH WALL TO PIPE WALL SHALL BE 12".



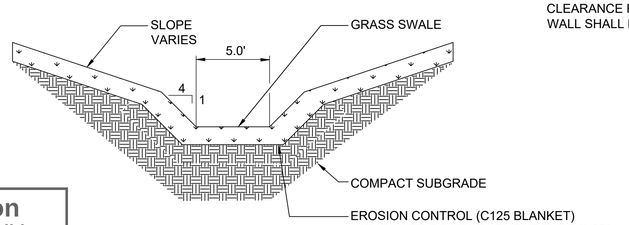
STRAIGHT CURB
(TYPE C-1)
NOT TO SCALE

NOTES:
1. PLACE 3/4" EXPANSION JOINTS WITH 2" DOWELS AT CURB RETURNS. DOWELS SHALL BE GREASED AND WRAPPED ON ONE END WITH PLASTIC SLEEVE.
2. INSTALL 1.5" DEEP CONTRACTION JOINTS AT APPROXIMATELY 10' CENTERS. JOINTS SHALL PASS THROUGH CURB SECTION.
3. FIX DOWELS WITH BAR CHAIRS OR EQUAL.



STORM SEWER END SECTION
W/TOEWALL & RIP-RAP

STORM SEWER END SECTION
NOT TO SCALE



TYPICAL GRASS SWALE
NOT TO SCALE

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A		ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

CIVIL DETAILS 1

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

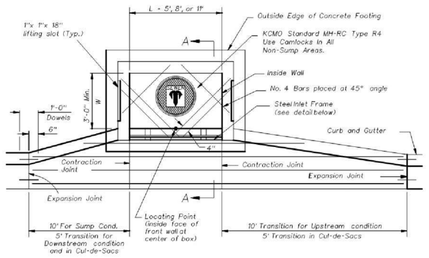
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BURNS & MCDONNELL ENGINEERING CO	

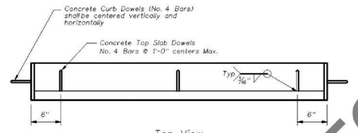
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C134

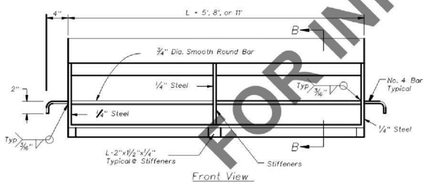
PROJECT NO. 81000927 SHEET 34 OF 40

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

Saved 08-28-2025 11:28:41 AM by DAVID
PLOT DATE 9/12/2025 12:34:13 AM by DAVID
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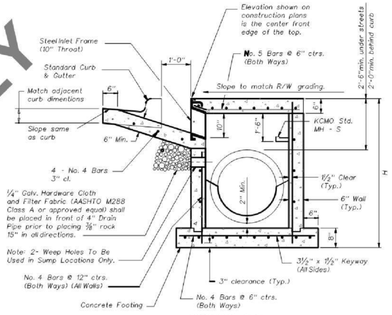


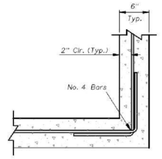


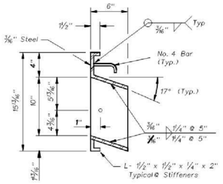
Steel Inlet Frame Notes

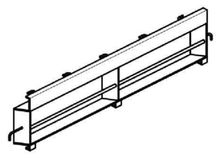
1. All welds shall be performed in accordance with appropriate AWS Specifications and Procedures.
2. All welds on exposed surfaces shall be dressed so as to provide a pleasing finished appearance.
3. The entire frame shall be hot dip zinc coated in accordance with ASTM A-123.
4. Steel inlet frame stiffeners shall be placed at equal intervals not to exceed 4'-0".

1. All work shall meet the requirements of APWA-KCMO 2600.
2. Inlet lid and throat shall conform to the street grade, except sump inlets which shall be level.
3. The first dimension listed in the construction notes is the "L" dimension. The second dimension is the "W" dimension.
4. Locate KCMO Standard MH-RC ring and cover over outlet. Add a second ring and cover over inlet when L = 11'.
5. Steps shall be spaced at 1'-4" O.C. vertically. The distance from the last step to the top of concrete invert should be a maximum of 24".
6. Bevel all exposed edges with 3/4" chamfer or 1/2" tooled edge.
7. Expansion joint material shall comply with APWA - KCMO 2209.
8. The lugs may be precast. When poured in place, the wall steps shall be left exposed to a height 2" below the finish top elevation.
9. Bowouts shall not project through the structure corners. Reinforcing shall be bent around pipe openings when possible. When reinforcing is cut, a diagonal bar shall be used to tie all cut ends together.
10. Floor of inlet shall be sloped with invert to provide smooth flow.
11. Reinforcing steel shall be ASTM A615 Grade 40 new billet per ASTM A615, and shall be bent cold.
12. All dimensions relative to reinforcing steel are to centerline of bars. A clearance of 2" shall be provided throughout unless noted. Tolerance of +/-1/2" shall be permitted.
13. All lap splices not shown shall be a minimum of 40 bar diameters in length.
14. The bottom slab shall be at least 24 hrs old before placing sidewall concrete. All sidewall forms shall remain in place a minimum of 24 hours after sidewall is poured before removal, and after removal shall be immediately coated with membrane curing compound.
15. Precast inlets shall be set on four (4) solid concrete blocks with one at each corner, and the base and invert shall be poured monolithically. The vertical reinforcing shall be as per cast in place, except that the bars shall not protrude through the lid and base.
16. All curb inlet tops are to be constructed after final curb string line has been approved by the Engineer and prior to curb construction.
17. Pipe connections to precast structures shall have a minimum of 6" of concrete around the entire pipe within 2' of the structure, unless sealed using approved flexible waterproof gaskets in precast openings. Maximum clearance between pipe bowouts and precast riser joints is 6" without special design.
18. Flood ground structures shall comply with APWA-KCMO 2604.3.D.
19. Where drawings are not drawn to scale. Any questions regarding dimensions shall be brought to the attention of the Engineer prior to construction.
20. The structure elevation shown on the plans is the top surface over the locating point.
21. The curb inlet throat shall be 2' wide at the expansion joints, regardless of curb type.









THIS STANDARD IS ADAPTED FROM 1996 APWA "CI-2".

ADOPTED

Acting Director of Public Works — 6/26/03 Date

Entry No.:

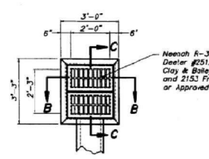
Kansas City, Missouri
Public Works Department
Engineering Division

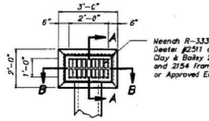
CURB INLET TYPE 1	STANDARD DRAWING NUMBER CI-1

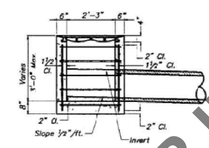
FOR INFORMATION ONLY

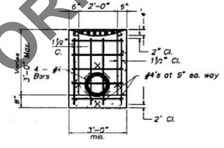
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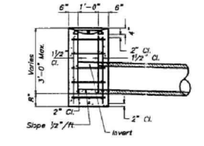
1. Location point at center of inlet.
2. A separate top slab may be utilized.
3. Not recommended for use in areas with bicycle traffic.









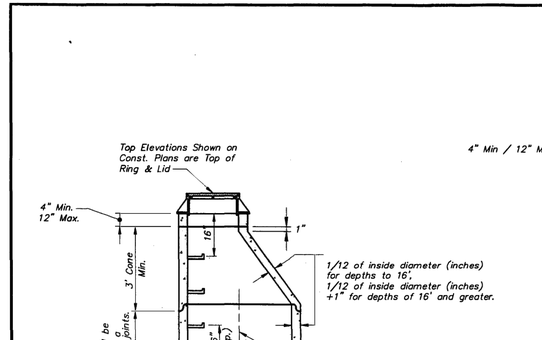


DOUBLE GRATE INLET DETAILS

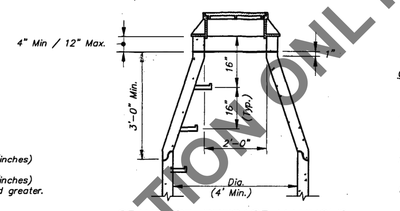
SINGLE GRATE INLET DETAILS

FOR INFORMATION ONLY

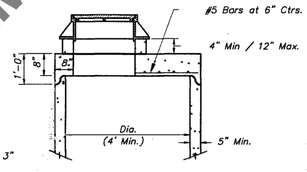
AMERICAN PUBLIC WORKS ASSOCIATION	KANSAS CITY METROPOLITAN CHAPTER
GRATE INLET DETAILS	STANDARD DRAWING NUMBER G-1
	ADOPTED: APRIL 17, 1996



STANDARD PRECAST MANHOLE (ECCENTRIC CONE)



STANDARD PRECAST MANHOLE (CONCENTRIC CONE)
(See Eccentric Cone For Other Details)



STANDARD PRECAST MANHOLE (SHALLOW TYPE)
(See Eccentric Cone For Other Details)

GENERAL NOTES:

1. All manholes are to be precast concrete and of Eccentric Cone type unless otherwise specified.
2. Manhole top adjustments shall be accomplished by the use of concrete adjustment rings.
3. Top of manhole casting shall be set flush and on same slope as finished surface or as directed by the Engineer.
4. Reinforcement in all sections shall equal or exceed A.S.T.M. C-478 specifications.
5. The engineer shall designate modifications for manholes with special designs.
6. The inside diameter of the manhole shall be 4'-0" for pipe diameters from 12" thru 24", 5'-0" for pipe diameters from 27" thru 36", and 6'-0" for pipe diameters 42" thru 48".
8. Clearance Tolerance of Pipe Openings: The Maximum Allowable Pipe Opening on a Horizontal Axis Shall be the Outside Diameter of the Pipe Plus 12". The Maximum Allowable Pipe Opening on Vertical Axis Shall be the Outside Diameter Plus 8". The Minimum Clearance Between the Outside Surface of an Installed pipe and the Concrete of the Manhole Shall be 2".
9. Installation of Pipe Openings: All required pipe openings shall be plant cast in manhole units. Field alterations of openings will be permitted provided walls are scored with a masonry saw to a depth sufficient to sever reinforcing steel. A chipping hammer may then be used to remove the concrete. Minimum distance between any two adjacent pipes shall be 4".
10. No direct payment for shaping floor or connecting pipes as shown on plans.
11. Ring & Cover to be Neenah R-1736, Clay & Bailey #2008, Deeter #1316, or approved equal. (Casting may vary by municipality, refer to plans & contract documents.)
12. Sanitary Sewers shall be coated and conform to Section 2600.

* East Jordan is an approved manufacturer for casting.

AMERICAN PUBLIC WORKS ASSOCIATION	KANSAS CITY METROPOLITAN CHAPTER
MANHOLE DETAILS	STANDARD DRAWING NUMBER MH - 1
	ADOPTED: APRIL 17, 1995

FOR INFORMATION ONLY

KANSAS CITY MISSOURI
City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025
Sara Copeland
Sara Copeland, FAICP
Secretary of the City Plan Commission

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

CIVIL DETAILS 2

FOR WSD USE:

KCWATER
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL • STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

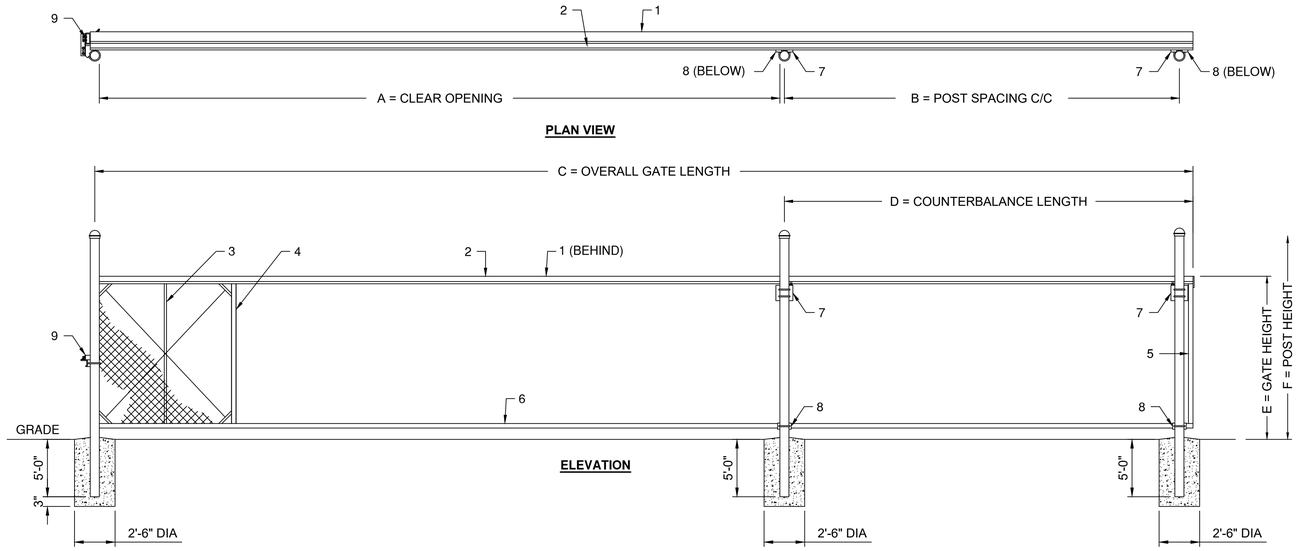
CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C135

PROJECT NO. 81000927 — SHEET 35 OF 40

PRELIMINARY - NOT FOR CONSTRUCTION

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CRITICAL DIMENSION CHART			
MARK	DESCRIPTION	ROAD 1, ROAD4 (FEET)	DIM.
A	CLEAR OPENING	28	24
B	COUNTERBALANCE POST SPACING C/C	13	35
C	OVERALL GATE LENGTH	41	
D	COUNTERBALANCE LENGTH	14	12
E	NOMINAL GATE HEIGHT	7	7
F	POST HEIGHT (W/ BARB ARMS)	8.5	8.5
G	FABRIC HEIGHT	6	6

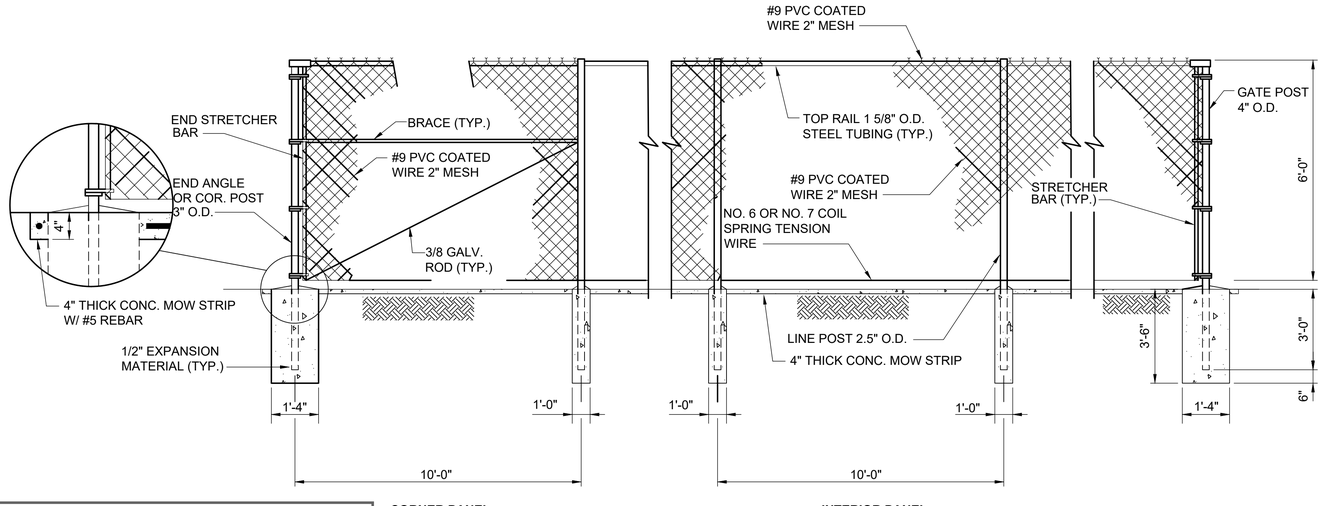
HEAVY DUTY CANTILEVER SLIDE GATE		
BILL OF MATERIALS		
MARK	DESCRIPTION	NOTES:
1	TOP PRIMARY MEMBER	
2	STANDARD TRACK	
3	1" x 2" ALUM. TUBE	CENTERED BETWEEN 2x2'S
4	2" x 2" ALUM. TUBE	
5	STANDARD PRIMARY	TYP. AT ENDS OF GATE FRAME
6	2" x 5" ALUM. TUBE	
7	HANGER ASSEMBLY	2 REQUIRED
8	BOTTOM GUIDE ASSEMBLY	2 REQUIRED
9	CATCH ASSEMBLY	1 REQUIRED

CATILEVER GATE NOTES:

1. ALL FITTINGS STANDARDLY PROVIDED FOR 4" O.D. POSTS.
2. FENCE GATES, DETAILS AND FIGURES ARE BASED ON "TYMETAL CORPORATION" GATES AND SHOULD BE CONFIRMED WITH THE MANUFACTURER PRIOR TO START OF WORK.
3. AUTOMATED OPERATING DEVICE SHALL BE COMPATIBLE WITH EXISTING FACILITY EQUIPMENT AND SHALL BE INSTALLED PER MANUFACTURER'S DESIGN AND RECOMMENDATIONS.
4. AUTOMATIC OPERATING DEVICE DESIGN AND INSTALLATION SHALL BE COORDINATED WITH GATE MANUFACTURER'S DESIGN AND INTALLATION.
5. GATE EQUIPMENT SHALL CONFORM TO ASTM F1184.
6. GATE CONSTRUCTION:
   A. CONSTRUCT WITH FITTING OR BY WELDING.
   B. PROVIDE RIGID, WATERPROOF JOINTS.
   C. ASSURE RIGHT, NON-SAGGING, NON-TWIST GATE.
   D. COAT WELDS WITH RUST PREVENTATIVE PAINT, COLOR TO MATCH GATE MATERIAL.
7. ELECTRIC GATE OPERATOR TO BE INSTALLED IN ACCORDANCE WITH 2017 NEC. AND MANUFACTURER'S RECOMMENDATIONS. OPERATOR SHALL BE 208 VOLT, 1-PHASE. OPERATOR SHALL BE RATED TO OPERATE GATE WEIGHT. MOTOR STARTER AND OVERLOADS AND CONTROL SHALL BE PROVIDED BY GATE SUPPLIER IN NEMA 4X ENCLOSURE. EXTERIOR CONTROL WIRING BY CONTRACTOR.
8. OPERATOR SHALL BE PAD MOUNTED. PAN AND ANCHORAGE BY CONTRACTOR.
9. PROVIDE OWNER WITH 10 HANDHELD GATE ACCESS REMOTE CONTROL UNITS.

AUTOMATIC CANTILEVER CHAIN LINK MAIN ROAD ACCESS GATE (A)

NOT TO SCALE

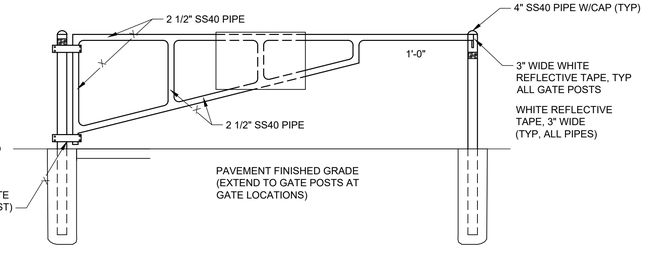


6' CHAIN LINK FENCE (B)

NOT TO SCALE

3,000 PSI CONCRETE (TYP).
AUGER CONSTRUCTION REQUIRED.
NO VOIDS BETWEEN IN-SITU MATERIAL AND CONCRETE FOOTING ALLOWED.

NOTE: PROVIDE A 4" O.D. PIPE AS A GATE HOLDBACK FOR EACH GATE AS SHOWN ON PLAN
PROVIDE WELDED EYELET AT END OF PIPE AND PROVIDE CONNECTION TO FIXED POST (TWO FIXED POSTS FOR OPEN AND CLOSED POSITIONS)



INTERURBAN ACCESS ROAD BARRIER GATE DETAIL (C)

NOT TO SCALE

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

Sara Copeland, FAICP
Secretary of the City Plan Commission

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

FOR WSD USE:

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

CIVIL DETAILS 3

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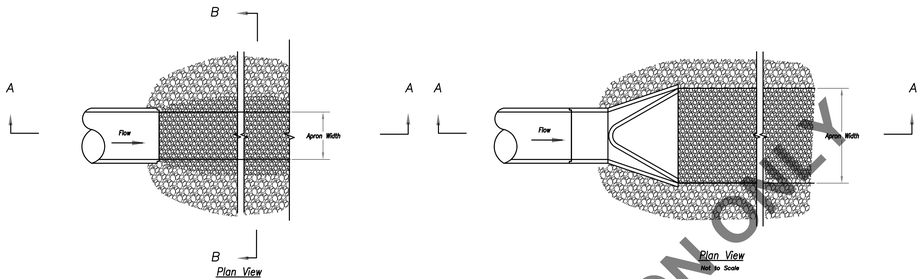
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CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C136

PROJECT NO. 81000927 — SHEET 36 OF 40

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OUTLET PROTECTION W/O END SECTION

OUTLET PROTECTION WITH END SECTION

Notes:

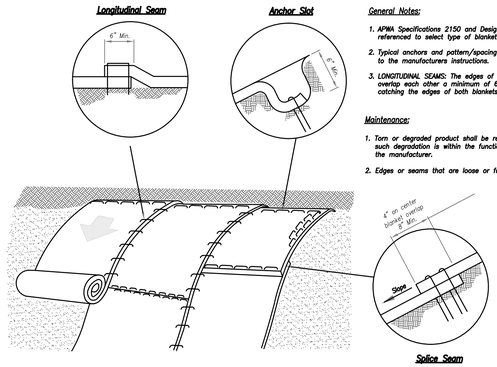
1. Rock all sides steeper than 3:1.
2. Stabilize all disturbed areas downstream of outlet to the limits of disturbance.
3. Alternative outlet protection and slope stabilization measures may be used with approval by the Engineer.
4. Install riprap apron so that it is no higher than flowline of pipe.
5. Reference APWA Specification 2650 for rock type, size, and placement.

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
KANSAS CITY METRO CHAPTER

OUTLET PROTECTION

STANDARD DRAWING NUMBER ESC-14
ADOPTED: 10/24/2016

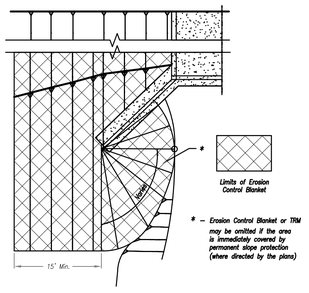


General Notes:

1. APWA Specifications 2150 and Design Guidance 5100 shall be referenced to select type of blanket or mat to be used.
2. Typical anchors and pattern/spacing shall be installed according to the manufacturers instructions.
3. LONGITUDINAL SEAMS: The edges of the blanket or mat should overlap each other a minimum of 6 inches, with anchors catching the edges of both blankets.

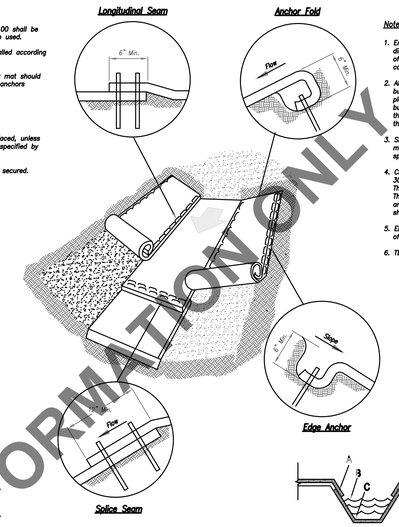
Maintenance:

1. Torn or degraded product shall be repaired or replaced, unless such degradation is within the functional longevity specified by the manufacturer.
2. Edges or seams that are loose or frayed shall be secured.



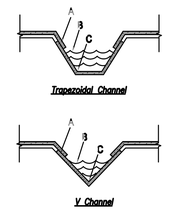
Notes for Installation on Slopes:

1. Erosion Control Blankets and TRMs shall be laid in the direction of the slope. In order for blanket to be in contact with the soil, lay blanket loosely, avoiding stretching.
2. ANCHOR SLOTS: The top of the blanket should be "slotted in" at the top of the slope and anchored in place with anchors 6 inches apart. The slots should be 6 inches wide x 6 inches deep with the blanket anchored in the bottom of the slot, then backfilled, tamped and smoothed.
3. SPLICE SEAM: When splices are necessary, overlap end a minimum of 8 inches in direction of water flow. Stagger splice seams.
4. TERMINAL FOLD: The bottom edge of the blanket shall be turned under a minimum of 4 inches, then anchored in place with anchors 6 inches apart.



Notes for Installation in Channels:

1. Erosion Control Blankets and TRMs shall be laid in the direction of the flow, with the first course at the centerline of channel, where applicable. In order for the mat to be in contact with the soil, lay the mat loosely, avoiding stretching.
2. ANCHOR FOLD: The top of the mat should be folded under, buried and secured with wood or other approved anchors placed 6 inches apart. The top edge of the mat should be buried in a slot 6 inches wide x 6 inches deep, anchored in the bottom of the slot, backfilled, and the mat folded over the top as shown in detail.
3. SPLICE SEAM: When splices are necessary, overlap end a minimum of 12 inches in direction of water flow. Stagger splice seams.
4. CHECK SLOTS: Establish check slots transverse to slope every 30 feet. The slots should be 6 inches wide x 6 inches deep. The mat shall be cut to a length 12 inches beyond the slot. The top of the downstream mat shall be slotted in, secured and buried similar to the edge anchor fold. The upstream mat shall then cover the slot and be anchored as shown.
5. EDGE ANCHORS: Lay outside edge of mat into trench at top of the slope and anchor.
6. TERMINUS: The bottom edge of the mat shall be anchored.



Critical Points:

A – Overlaps and seams;

B – Projected water line;

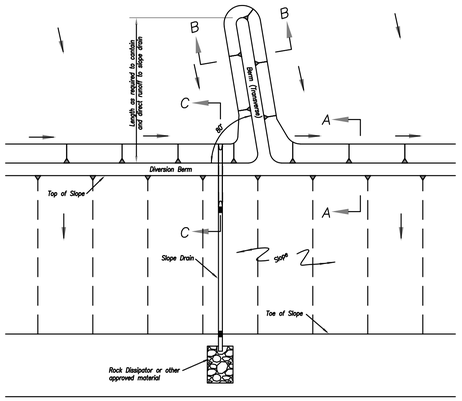
C – Channel bottom / side slope vertices;

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
KANSAS CITY METRO CHAPTER

EROSION CONTROL BLANKETS AND TURF REINFORMENT MATS

STANDARD DRAWING NUMBER ESC-02
ADOPTED: 10/24/2016



TYPICAL PLAN VIEW OF DIVERSION BERM AND SLOPE DRAIN

Notes for Diversion Berm:

1. Slope drains are optional, but may be required by the engineer if the berm is at the top of a steep slope.
2. Diversion berms must be installed as a first step in the land-disturbing activity and must be functional prior to upslope land disturbance.
3. The berm should be adequately compacted to prevent failure.
4. Temporary or permanent seeding and mulch shall be applied to the berm immediately following its construction.
5. Place the berm as to minimize damages by construction operations and traffic.
6. The berm must discharge to a temporary sediment trap or stabilized area.
7. All trees, brush, stumps, obstructions and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of diversion.
8. [illegible] excavated or shaped [illegible] to meet the criteria specified herein.
9. [illegible] needed to prevent unequal [illegible] damage in the compacted [illegible] shall be repaired if scour is observed. [illegible] shall be disposed of [illegible] on [illegible] or other objectionable [illegible] slet shall be monitored for

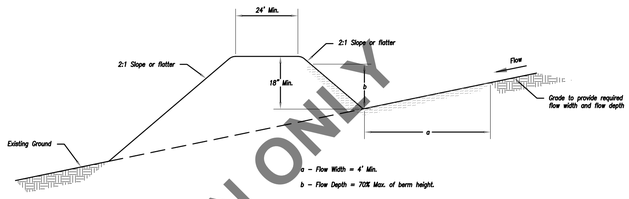
Notes for Slope Drain:

1. Slope Drain and Diversion Berm may be used on either project foreslopes or project backslopes.
2. Discharge of Slope Drains shall be into stabilized ditch or area, or into Sediment Basin.
3. Pipe shall be secured in place as approved by Engineer.

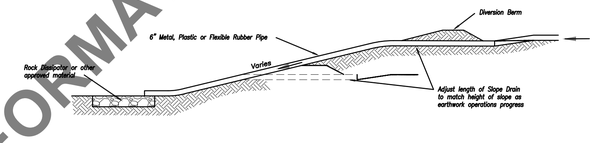
Maintenance:

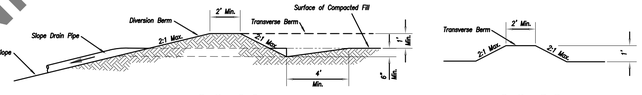
1. Berm shall be reshaped, compacted, and stabilized as necessary to maintain its function.
2. Breaches in the berm shall be repaired immediately.

TYPICAL PROFILE OF DIVERSION BEAM
Not to Scale



TYPICAL PROFILE OF DIVERSION BERM





TYPICAL PROFILE OF DIVERSION BERM WITH SLOPE DRAIN

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
KANSAS CITY METRO CHAPTER

DIVERSION BERMS AND SLOPE DRAINS

STANDARD DRAWING NUMBER ESC-05
ADOPTED: 10/24/2016

City Plan Commission
Recommends Approval with Conditions
Case No.: CD-CPC-2025-00083 on 11/19/2025
KANSAS CITY MISSOURI
Sara Copeland, FAICP
Secretary of the City Plan Commission

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

CIVIL DETAILS 4

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

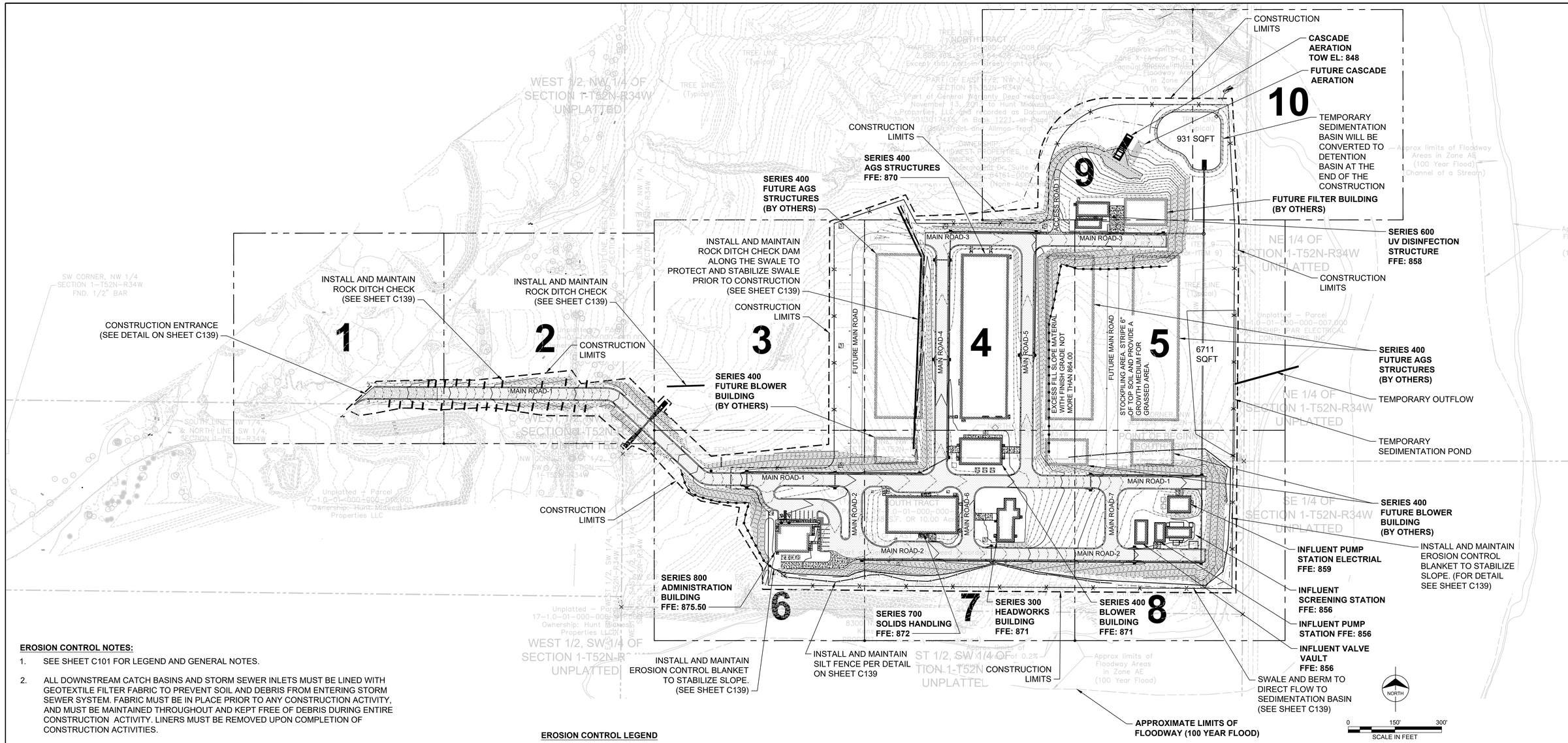
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C137

PROJECT NO. 81000927 SHEET 37 OF 40

CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL • STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
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G:\Z0004 - TODD CREEK-CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C137-CIVIL DETAILS 4.DWG



EROSION CONTROL NOTES:

1. SEE SHEET C101 FOR LEGEND AND GENERAL NOTES.
2. ALL DOWNSTREAM CATCH BASINS AND STORM SEWER INLETS MUST BE LINED WITH GEOTEXTILE FILTER FABRIC TO PREVENT SOIL AND DEBRIS FROM ENTERING STORM SEWER SYSTEM. FABRIC MUST BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY, AND MUST BE MAINTAINED THROUGHOUT AND KEPT FREE OF DEBRIS DURING ENTIRE CONSTRUCTION ACTIVITY. LINERS MUST BE REMOVED UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
3. EROSION CONTROL METHODS OTHER THAN THOSE SHOWN ON THE DRAWINGS MAY BE UTILIZED IF APPROVED IN WRITING BY ENGINEER PRIOR TO THEIR USE.
4. THE LOCATION AND SIZE OF EROSION CONTROL DEVICES ARE APPROXIMATE ONLY AND REPRESENT THE MINIMUM REQUIREMENTS. THE DEVICES SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR LOCATIONS SHALL FACILITATE MAXIMUM PROTECTION FOR THE METHOD OF CONSTRUCTION UTILIZED. ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED TO COMPLY WITH SWPPP.
5. CONTRACTOR SHALL PROVIDE DUST CONTROL DURING ENTIRE CONSTRUCTION PERIOD. ALL DISTURBED AREAS SHALL BE MAINTAINED WITH DUST SUPPRESSORS (WATER, ETC.) TO PROHIBIT ENVIRONMENTAL CONTAMINATION. CALCIUM CHLORIDE SHALL NOT BE USED FOR DUST CONTROL.
6. THE CONTRACTOR SHALL PLAN AND CONDUCT GRADING OPERATIONS IN A MANNER THAT WILL MINIMIZE THE EXTENT AND DURATION OF UNPROTECTED SOIL.
7. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF MATERIALS ONTO PUBLIC PAVEMENT. ALL MATERIALS TRACKED ONTO PUBLIC ROADWAYS SHALL BE IMMEDIATELY REMOVED.
8. DITCH CHECK SHALL BE PLACED AT 200' MAXIMUM UNLESS OTHERWISE APPROVED BY ENGINEER.
9. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.

EROSION CONTROL LEGEND

- = ROCK DITCH CHECK
- = CURB INLET SEDIMENT BARRIER
- = CONSTRUCTION ENTRANCE (USE DROP DOWN TO ADJUST FOR SCALE)
- = SILT FENCE
- = SPOIL AREA
- = EROSION CONTROL BLANKET
- = CL OF SWALE

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EROSION CONTROL PLAN AND NOTES

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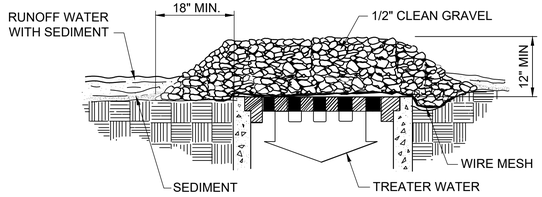
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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C138

PROJECT NO. 81000927 SHEET 38 OF 40

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GRAVEL AND WIRE MESH
DROP INLET SEDIMENT TRAP

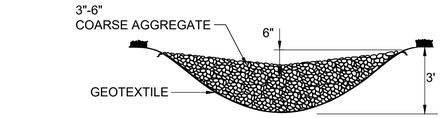
GRAVEL AND WIRE MESH DROP INLET SEDIMENT TRAP NOTES:

GENERAL NOTES:

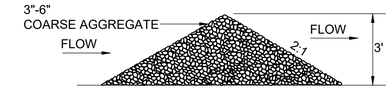
1. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
2. COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH. THE DEPTH OF STONE SHALL BE AT LEAST 12-INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18-INCHES ON ALL SIDES.
3. IF THE STONE BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED.

INSPECTION AND MAINTENANCE:

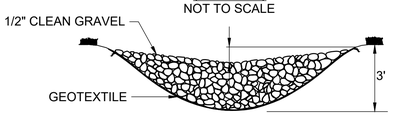
1. THE STRUCTURE SHALL BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT OF 1/2" OR GREATER AND REPAIRS MADE AS NEEDED.
2. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
3. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



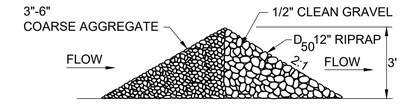
ROCK CHECK DAM
2 ACRES OR LESS OF DRAINAGE AREA
NOT TO SCALE



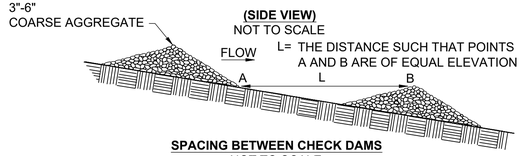
(SIDE VIEW)
NOT TO SCALE



2-10 ACRES OF DRAINAGE AREA
NOT TO SCALE



(SIDE VIEW)
NOT TO SCALE



SPACING BETWEEN CHECK DAMS
NOT TO SCALE

ROCK CHECK DAM NOTES:

CONSTRUCTION SPECIFICATIONS & INSTALLATION:

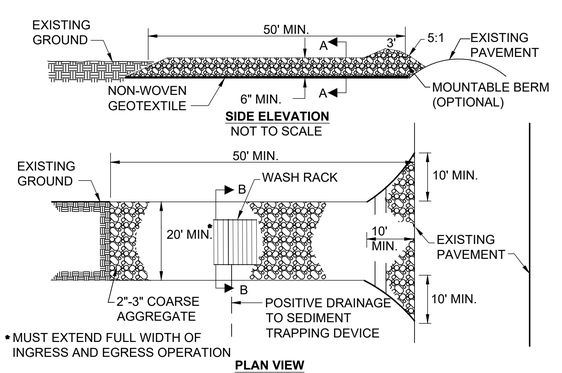
1. THE DRAINAGE AREA OF THE DITCH OR SWALE BEING PROTECTED SHALL NOT EXCEED 2 ACRES WHEN A COARSE AGGREGATE IS USED ALONE AND SHALL NOT EXCEED 10 ACRES WHEN A COMBINATION OF CLASS I RIPRAP AND COARSE AGGREGATE IS USED. AN EFFORT SHOULD BE MADE TO EXTEND THE STONE TO THE TOP OF CHANNEL BANKS.
2. THE MAXIMUM HEIGHT OF THE DAM SHALL BE 3 FEET. THE CENTER OF THE CHECK DAM IS AT THE SAME ELEVATION AS THE TOP OF THE OUTER EDGES.
3. FOR ADDED STABILITY, THE BASE OF THE CHECK DAM CAN BE KEYED INTO THE SOIL APPROXIMATELY 6 INCHES.
4. THE MAXIMUM SPACING BETWEEN THE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
5. STONE SHOULD BE PLACED ACCORDING TO THE CONFIGURATION TO THE LEFT. HAND OR MECHANICAL PLACEMENT WILL BE NECESSARY TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
6. REFER TO APWA 2150-SECTIOM- 2154.1, GEOTEXTILE MAY BE USED UNDER THE STONE TO PROVIDE A STABLE FOUNDATION AND TO FACILITATE REMOVAL OF THE STONE.

INSPECTION AND MAINTENANCE:

1. CHECK DAMS SHOULD BE CHECKED FOR SEDIMENT ACCUMULATION WEEKLY AND AFTER EACH STORM EVENT OF 1/2-INCH OR GREATER. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES ONE HALF OF THE ORIGINAL HEIGHT OF THE DAM.
2. REGULAR INSPECTIONS SHOULD BE MADE TO ENSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES. EROSION CAUSED BY HIGH FLOWS AROUND THE EDGES OF THE DAM SHOULD BE CORRECTED.

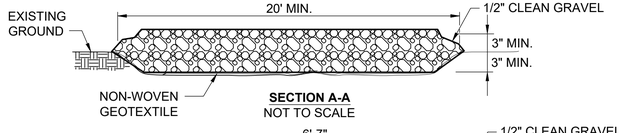
REMOVAL OF PRACTICE:

UNLESS THEY ARE TO BE PERMANENT, CHECK DAMS MUST BE REMOVED WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED. IN TEMPORARY DITCHES AND SWALES, CHECK DAMS SHOULD BE REMOVED AND THE DITCH FILLED WHEN THEY ARE NO LONGER NEEDED. IN PERMANENT STRUCTURES, CHECK DAMS SHOULD BE REMOVED WHEN A PERMANENT LINING CAN BE INSTALLED. IN THE CASE OF GRASS-LINED DITCHES, CHECK DAMS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAMS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE REMOVED. THE USE OF FILTER CLOTH UNDERNEATH THE STONE WILL MAKE REMOVAL OF THE STONE EASIER.

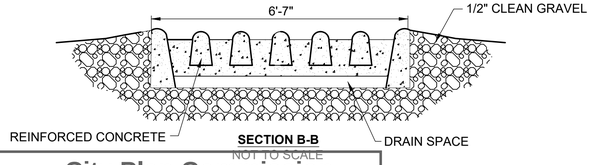


SIDE ELEVATION
NOT TO SCALE

PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

TEMPORARY CONSTRUCTION ENTRANCE

ROCK CHECK DAM

TEMPORARY CONSTRUCTION ENTRANCE PAD NOTES:

INSTALLATION:

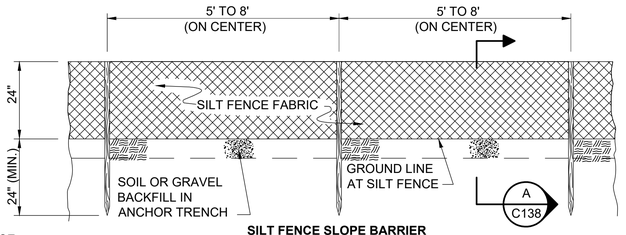
1. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
2. IF SLOPE TOWARD THE PUBLIC ROAD EXCEEDS 2%, CONSTRUCT A 6-TO 8-INCH HIGH RIDGE WITH 3H:1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
3. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS.
4. PLACE STONE TO DIMENSIONS AND GRADE AS SHOWN ON DRAWINGS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
5. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.

TROUBLESHOOTING:

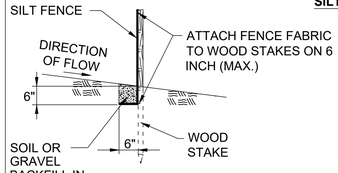
1. CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
   a. INADEQUATE RUNOFF CONTROL TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROAD - INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES.
   b. SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC.
   c. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY.

INSPECTION AND MAINTENANCE:

1. INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER 1/2" OR GREATER STORM EVENTS.
2. RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN 2-INCH AND 3-INCH STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.
5. REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED.



SILT FENCE SLOPE BARRIER
NOT TO SCALE



SECTION
NOT TO SCALE

A
C138

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EROSION CONTROL DETAILS

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO

DATE COMPLETED:

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C139

PROJECT NO. 81000927

SHEET 39 OF 40

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RUNOFF QUANTITIES*					
Basin	Acre(ac)	C	Q2(cfs)	Q10(cfs)	Q100(cfs)
1	0.55	0.46	1.37	1.85	2.61
2	0.49	0.48	1.26	1.71	2.41
3	0.16	0.46	0.40	0.54	0.76
4	0.215	0.46	0.53	0.72	1.02
5	0.12	0.45	0.29	0.39	0.55
6	0.28	0.36	0.55	0.74	1.04
7	0.07	0.90	0.34	0.46	0.65
8	1.07	0.62	3.57	4.82	6.80
9	0.69	0.41	1.53	2.07	2.92
10	0.88	0.63	3.00	4.06	5.73
11	0.79	0.98	4.17	5.64	7.96
12	0.23	0.23	2.97	4.02	5.67
13	0.64	0.56	1.94	2.62	3.69
14	0.23	0.50	0.62	0.83	1.18
15	0.24	0.54	0.70	0.95	1.34
16	0.4	0.62	1.34	1.81	2.56
17	0.1	0.71	0.38	0.52	0.73
18	0.73	0.31	1.21	1.63	2.30
19	0.17	0.61	0.56	0.75	1.06
20	0.54	0.56	1.63	2.20	3.10
21	0.18	0.90	0.87	1.18	1.67
22	0.2	0.90	0.97	1.31	1.85
23	1.02	0.39	2.15	2.91	4.10
24	0.25	0.44	0.60	0.81	1.14
25	1.35	0.30	1.14	2.03	2.84
26	0.5	0.54	1.14	1.94	2.78

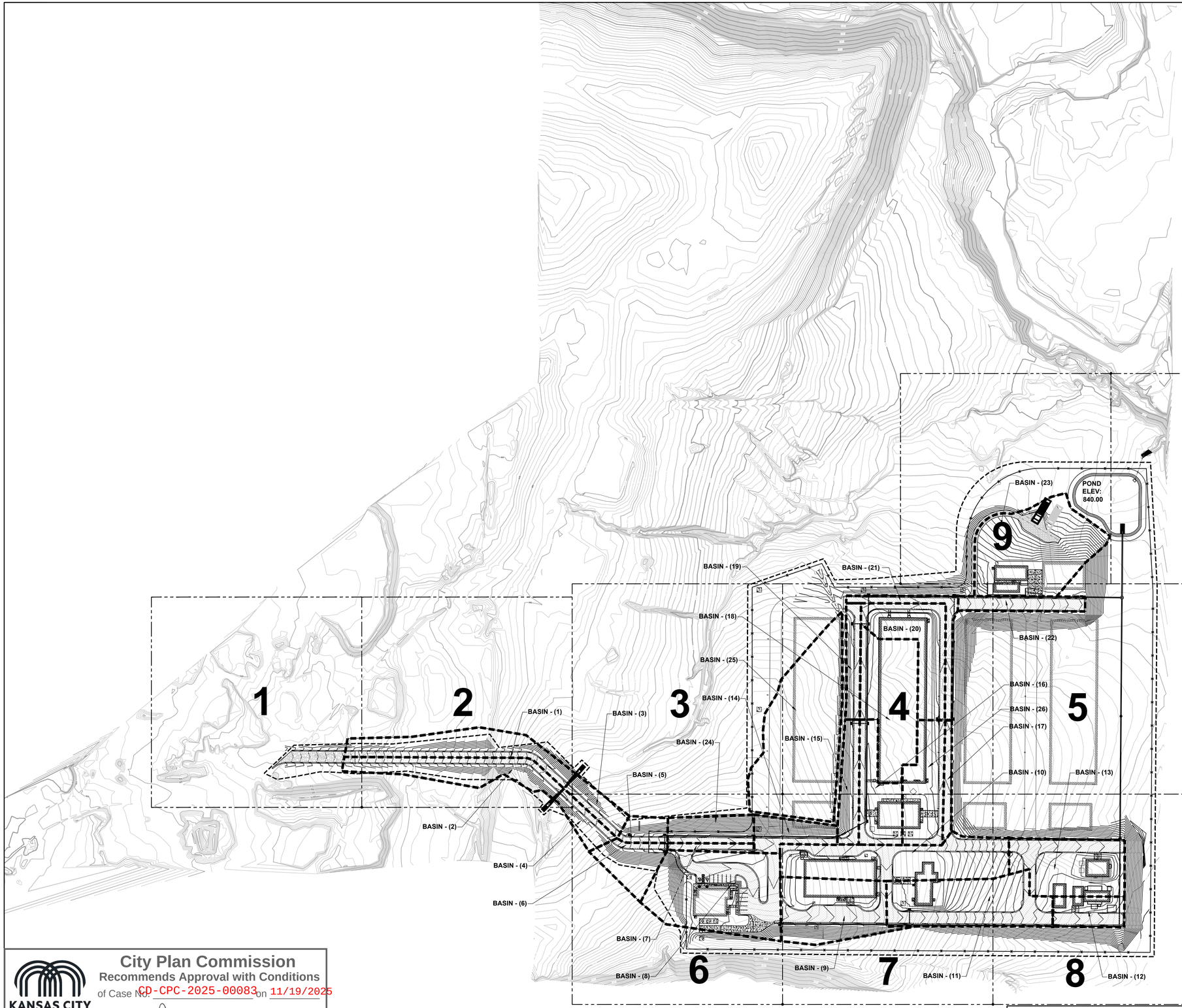
(*) 1. RUNOFF QUANTITIES WERE CALCULATED USING THE RATIONAL METHOD IS ACCORDANCE WITH APWA 5600.
2. PIPE SIZES ARE BASED ON THE 100 YEAR RUNOFF QUANTITIES.
3. MINIMUM PIPE SIZE OF 15" DIAMETER WAS USED ACCORDING TO THE REQUIREMENTS OF APWA 5600.
4. ALL PIPES ARE TO BE REINFORCED CONCRETE PIPE (MANNINING'S N=0.013)

LEGEND

- PROPOSED DRAINAGE AREA BOUNDARY
- EXIST CONTOUR
- PROPERTY LINE
- ELEV: 918.00 SPOT ELEVATION

N

0 100' 200'
SCALE IN FEET



PROPOSED DRAINAGE AREA MAP

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PROPOSED DRAINAGE AREA MAP

FOR WSD USE:

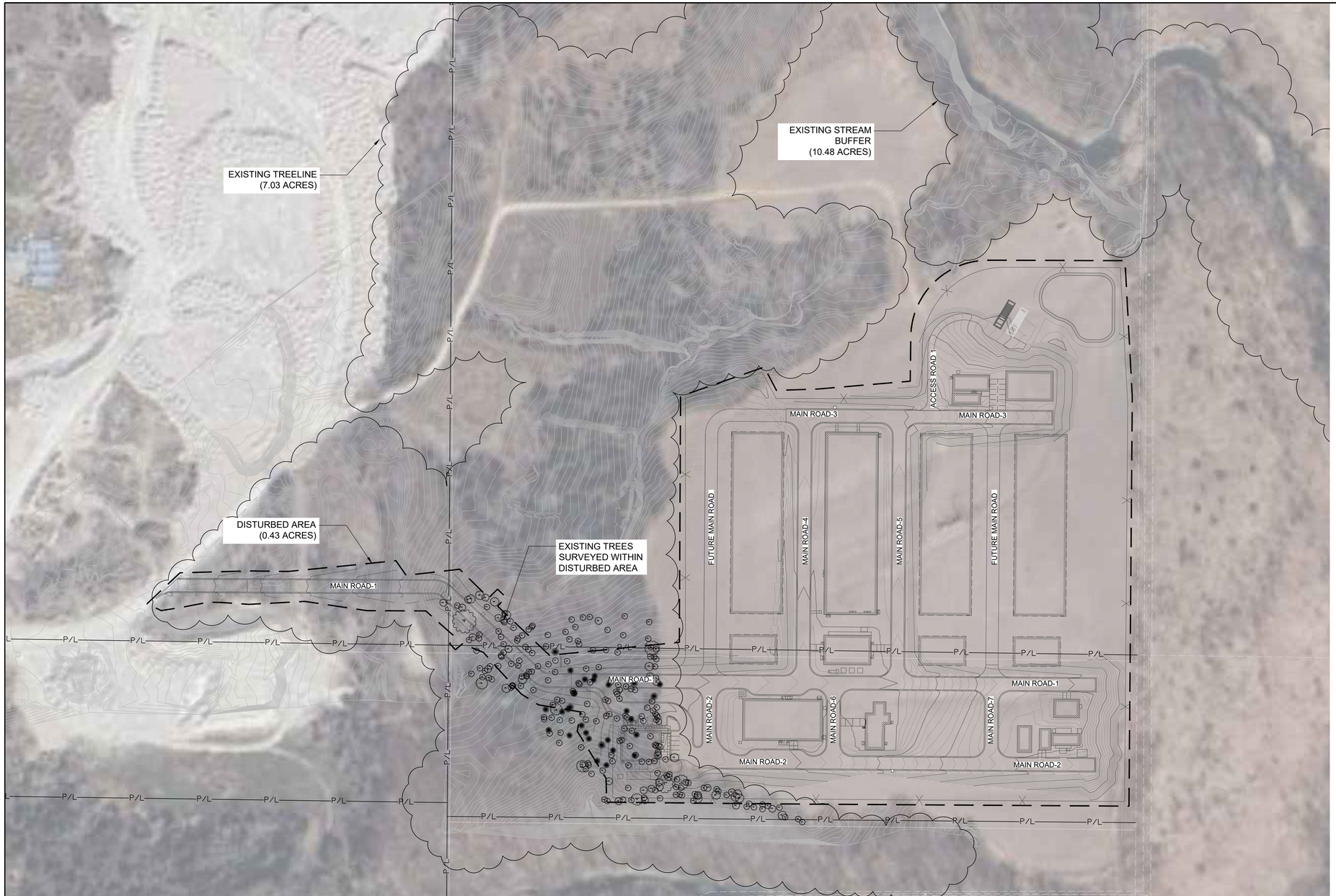
DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C140

PROJECT NO. 81000927 SHEET 40 OF 40

Saved 09-12-2025 12:06:32 AM by DAVID
PLOT DATE 9/12/2025 12:35:18 AM by DAVID
G:\2620084 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C140-PROPOSED DRAINAGE AREA MAP.DWG



LEGEND

- P/L — PROPERTY LINE
- X — NEW FENCING
- CONSTRUCTION LIMITS
- EXISTING TREE

NORTH

0 50' 100'

SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	9/12/25	SFW/LDH	BMS	ISSUED FOR 60% REVIEW

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

EXISTING CONDITIONS TREE PLAN

Brittney Swartz
Landscape Architect
LA-2011003571

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
LDH, SFW	BMS	-	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	-

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				L103

PROJECT NO. 81000927

SHEET 1 OF 13

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

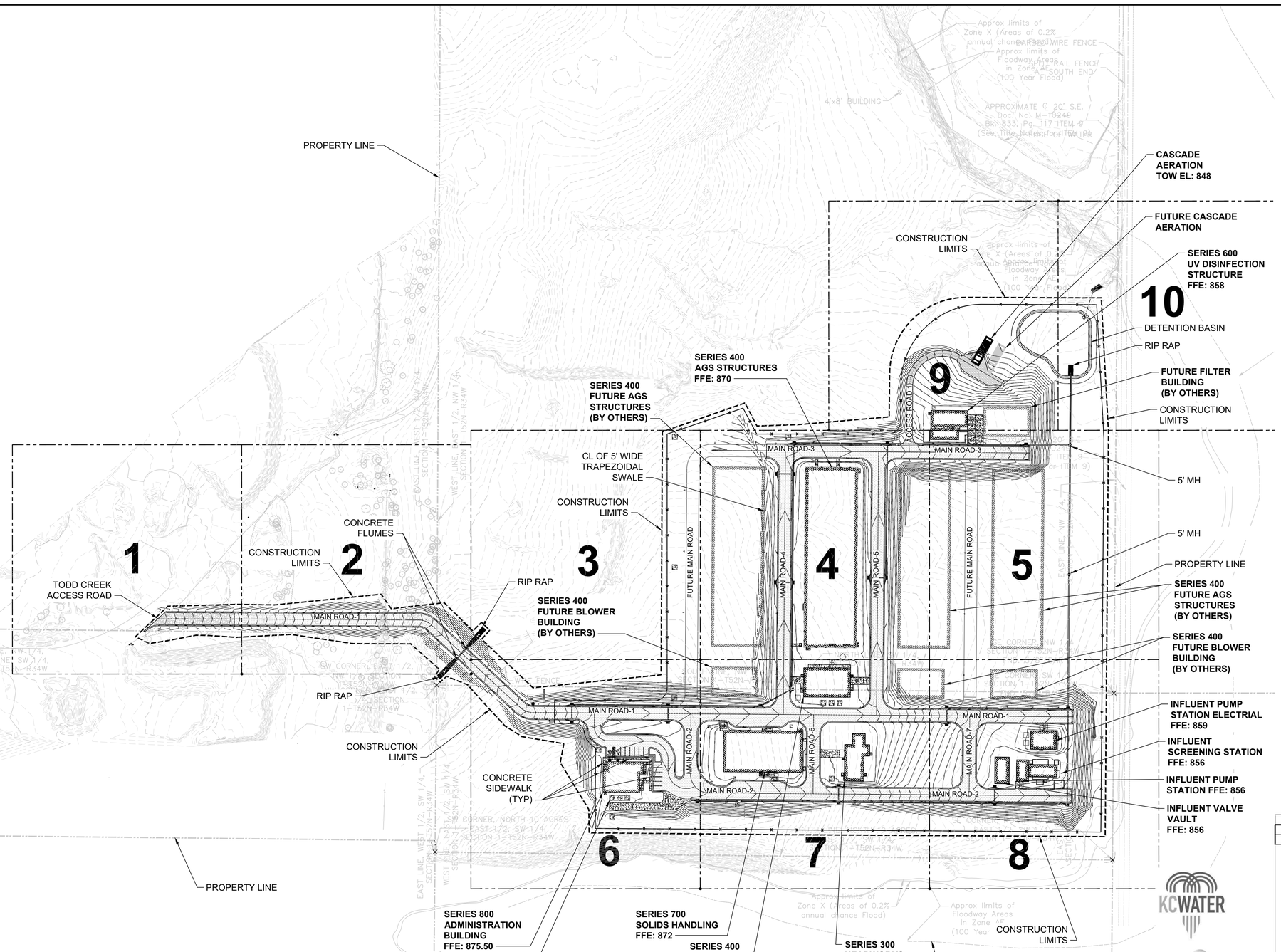
Sara Copeland, FAICP
Secretary of the City Plan Commission

Saved 09-11-2025 3:07:35 PM by SFWARRICK
PLOT DATE 9/17/2025 3:09:05 PM by SFWARRICK
C:\BMCD_LIB\DOCACCDOCS\BURNS & MCDONNELL\125460_TODDCREEKF\PROJECT FILES\103 - LANDSCAPE\PRODUCTION DRAWINGS\L100 - EXISTING CONDITIONS TREE PLAN.DWG

Attachment 2

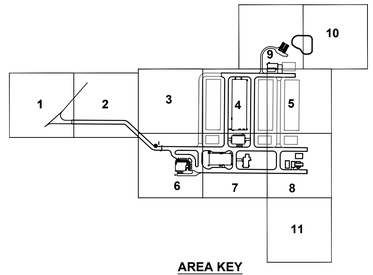
Grading Plans

9400 Ward Parkway | Kansas City, MO 64114 | burnsmcd.com



NOTES:

1. SEE SHEETS C113 THRU C122 FOR DETAILED GRADING INFORMATION.
2. ALL AREAS TO GRADE TO DRAIN AWAY FROM STRUCTURES.
3. ALL ASPHALT PAVEMENT SHALL BE SLOPED TO DRAIN.



AREA KEY

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REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GENERAL GRADING PLAN

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO

DATE COMPLETED:

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C112

PROJECT NO. 81000927 SHEET 12 OF 40

KCWATER

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WELLNER architects

BURNS McDONNELL

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KANSAS CITY, MO 64114
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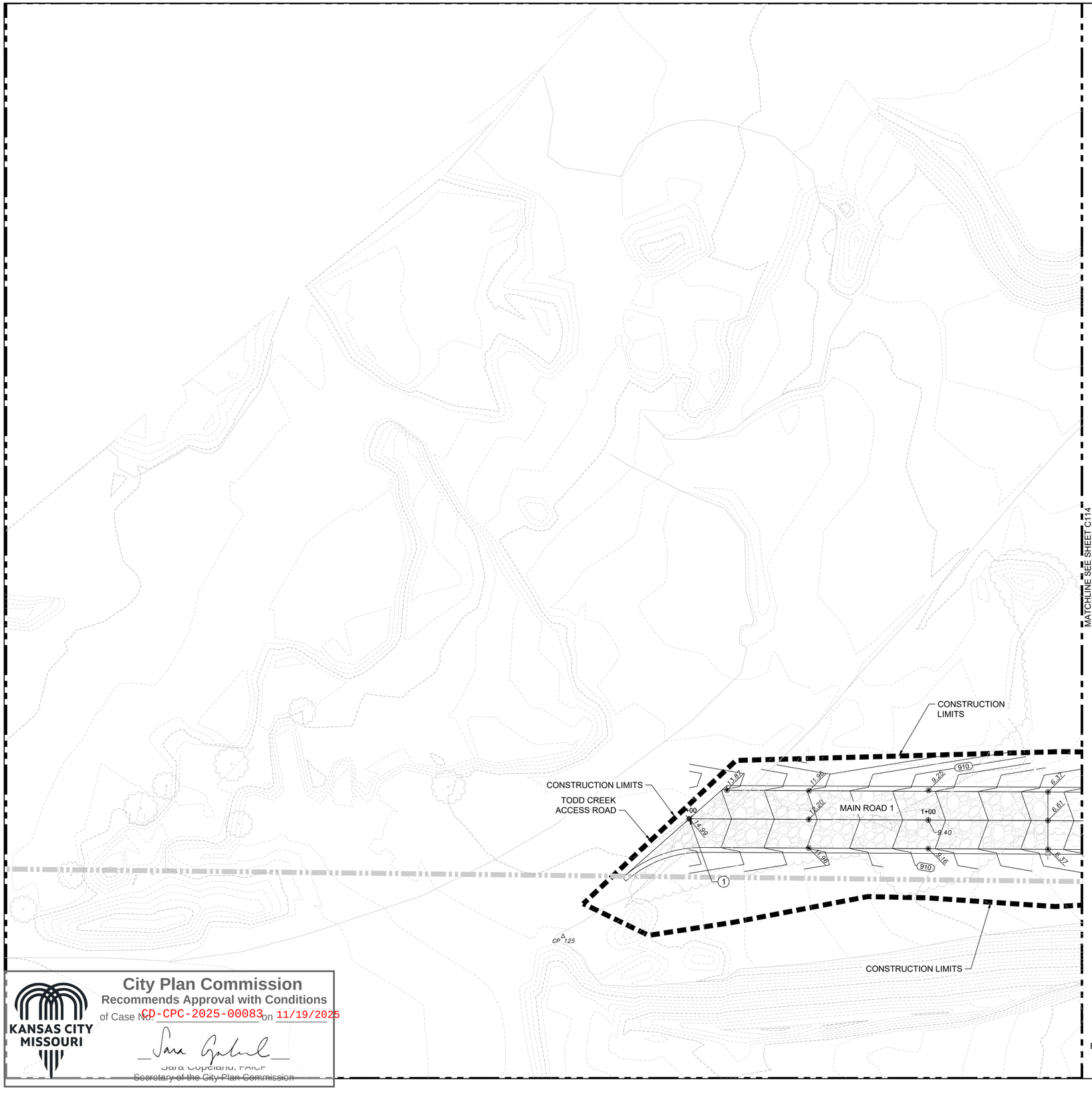
KANSAS CITY MISSOURI

City Plan Commission
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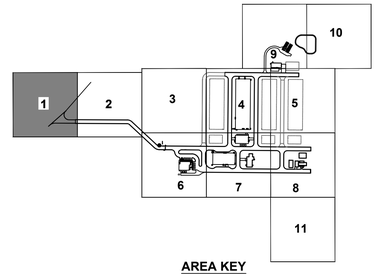
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PLOT DATE 9/12/2025 12:28:04 AM by DAVID
G:\Z0004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C112-GENERAL GRADING PLAN.DWG

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1158331.2902	2739501.4097	914.99	PI



GRADING NOTE:

1. THE FIRST NUMBER OF THE SPOT ELEVATION SHOWN ON THESE PLANS HAS BEEN TRUNCATED. CONTRACTOR SHALL ADD 700, 800 OR 900 TO THE SPOT ELEVATIONS SHOWN TO GET TO ACTUAL PLAN ELEVATIONS. SEE ADJOINING CONTOUR LABELS WHEN DETERMINING ACTUAL ELEVATIONS. ALL CONTOURS LABELS ARE ACTUAL PLAN ELEVATIONS AND REQUIRE NO ADJUSTMENT.



AREA KEY

PRELIMINARY - NOT FOR CONSTRUCTION

NORTH

0 10' 20' 40'
SCALE IN FEET

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 1

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C113

PROJECT NO.	SHEET 13 OF 40
81000927	

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WELLNER architects

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816-333-9400
LICENSEE NO. 000165

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City Plan Commission
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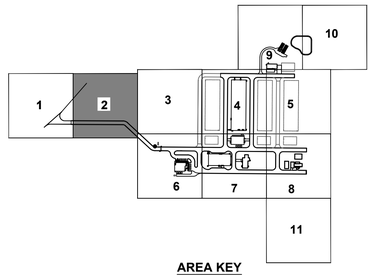
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Secretary of the City Plan Commission

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PLOT DATE 9/12/2025 12:29:34 AM by DAVID
G:\20004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C113-GRADING PLAN 1.DWG

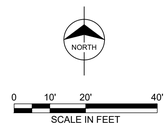
CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
2	1158291.6339	2740012.7222	885.03	CTR
3	1158328.6334	2740012.9144	886.41	BC
4	1158326.0401	2740026.3316	885.68	MID
5	1158318.7534	2740037.8923	885.03	EC
11	1158328.5585	2740027.3277	885.68	PI

GRADING NOTE:

1. THE FIRST NUMBER OF THE SPOT ELEVATION SHOWN ON THESE PLANS HAS BEEN TRUNCATED. CONTRACTOR SHALL ADD 700, 800 OR 900 TO THE SPOT ELEVATIONS SHOWN TO GET TO ACTUAL PLAN ELEVATIONS. SEE ADJOINING CONTOUR LABELS WHEN DETERMINING ACTUAL ELEVATIONS. ALL CONTOURS LABELS ARE ACTUAL PLAN ELEVATIONS AND REQUIRE NO ADJUSTMENT.



AREA KEY



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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 2

FOR WSD USE:

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL & STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C114

PROJECT NO. 81000927 — SHEET 14 OF 40

MATCHLINE SEE SHEET C113

MATCHLINE SEE SHEET C115

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

MAIN ROAD 1

RIP RAP

EAST LINE, WEST 1/2, NW 1/4, SECTION 1–T52N–R34W

WEST LINE, EAST 1/2, NW 1/4, SECTION 1–T52N–R34W

Unplatted – Parcel ID 17-10-01-000-000-010000
Ownership: MGM Midwest Properties LLC

WEST 1/2, NW 1/4 OF SECTION 1–T52N–R34W UNPLATTED

SW CORNER, EAST 1/2, NW 1/4, SECTION 1–T52N–R34W

PC 5+11.51

MH 5+25.26

2+00 3+00 4+00 5+00 6+00

905 900 895 890 885 880

97.92 95.20 92.40 89.61 87.06 84.79 84.35 84.59 84.79 83.52 83.32 83.04 83.04

3.82 3.58 3.82 3.58 3.82 3.58

(Typical)

TREE-LINE
(Typical)

MATCHLINE SEE SHEET C114

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

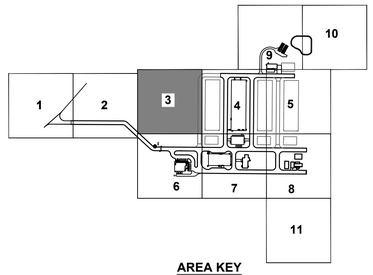
MATCHLINE SEE SHEET C116

CONSTRUCTION
LIMITS

CONSTRUCTION
LIMITS

RIP RAP

MATCHLINE SEE SHEET C118



AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 3

FOR WSD USE:

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WELLNER architects

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DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C115

PROJECT NO. 81000927 SHEET 15 OF 40

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025
Sara Copeland, FAICP
Secretary of the City Plan Commission

KANSAS CITY MISSOURI

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G:\20004 - TODD CREEK CIVIL\07-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C115-GRADING PLAN 3.DWG

MATCHLINE SEE SHEET C121

MATCHLINE SEE SHEET C115

MATCHLINE SEE SHEET C117

MATCHLINE SEE SHEET C119

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

CL OF PROPOSED 5'
WIDE TRAPEZOIDAL SWALE

SIDEWALK (TYP.)
(SEE DETAIL
ON SHEET C134)

MAIN ROAD 2

MAIN ROAD 3

MAIN ROAD 4

FUTURE AGS BASINS
TOW EL: 879
TOF EL: 855
FG: 870

AGS BASINS
TOW EL: 879
TOF EL: 855
FG: 870

FUTURE AGS BASINS
TOW EL: 873
TOF EL: 849
FG: 864

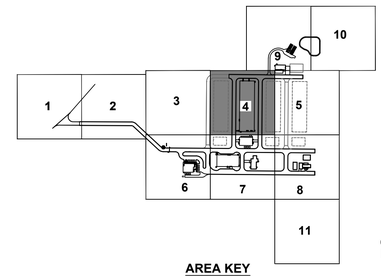
SIDEWALK (TYP.)
(SEE DETAIL ON
SHEET C134)

FOR DOOR STOOP
DETAILS (TYP)
(SEE STRUCTURAL
DRAWINGS)

CL OF PROPOSED 5'
WIDE TRAPEZOIDAL SWALE

NORTH LINE, SW 1/4
SECTION 1-T52N-R34W

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
20	1158661.4962	2740588.6091	868.66	BRD3
21	1158660.3376	2740732.7056	867.26	BRD4
22	1158658.8663	2740915.6997	865.50	BRD5
43	1158658.3839	2740975.6995	863.80	BACRD1



AREA KEY

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 4

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C116

PROJECT NO. 81000927 SHEET 16 OF 40

KCWATER
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL + STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

KANSAS CITY MISSOURI
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MATCHLINE SEE SHEET C116

MATCHLINE SEE SHEET C121

MATCHLINE SEE SHEET C122

MATCHLINE SEE SHEET C120

MAIN ROAD 2

FUTURE MAIN ROAD

FUTURE FILTER BUILDING (BY OTHERS)

SERIES 600 UV DISINFECTION STRUCTURE FFE: 858

CONCRETE PAVEMENT (TYP.) (SEE DETAIL ON SHEET C134)

FUTURE AGS BASINS
TOW EL: 873
TOE EL: 843
FG: 858

APPROXIMATE ℄ 20' S.E. Doc. No. M-10249 Bk. 833, Pg. 117 ITEM 9 (See Title Notes for ITEM 9)

EAST LINE, NW 1/4, SECTION 1-T52N-R34W

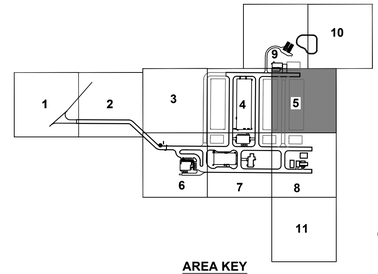
TREE LINE (Typical)

CONSTRUCTION LIMITS

FENCE (TYP.) (SEE DETAIL ON SHEET C136)

SE CORNER, NW 1/4, SECTION 1-T52N-R34W FND. 5/8" BAR

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
23	1158656.4934	2741210.8189	855.86	PI



AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 5

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C117

PROJECT NO. 81000927 SHEET 17 OF 40

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DuBois Consultants CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

KANSAS CITY MISSOURI

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Recommends Approval with Conditions
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MATCHLINE SEE SHEET C115

MATCHLINE SEE SHEET C119

CONSTRUCTION LIMITS

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

MAIN ROAD 1

MAIN ROAD 2

MAIN ROAD

DRIVEWAY 1
1+00

SEE SPECIFICATION 02765
FOR PAVEMENT MARKING

TREE LINE
(Typical)

SIDEWALK (TYP)
(SEE DETAIL ON DRAWING C134)

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

DROP FOOTING TO
ACCOMMODATE
PROPOSED GRADES.
(SEE STRUCTURAL PLANS.

ADMIN BUILDING
FFE: 875.50

CONSTRUCTION LIMITS

PROPOSED ELECTRICAL
PAD (TYP)

FENCE (TYP.)
(SEE DETAIL ON SHEET C136)

CONSTRUCTION LIMITS

FLOOD LINE

WIRE FENCE

-1.56%

-2.0%

-1.83%

3.47%

3.3%

3.43%

3.6%

3.66%

PC 0+27.04

PT 0+69.62

PC 1+60.96

PC 2+09.11

PC 2+29.09

PC 3+03.28

MH 1+48.35

MH 1+80.04

MH 2+60.83

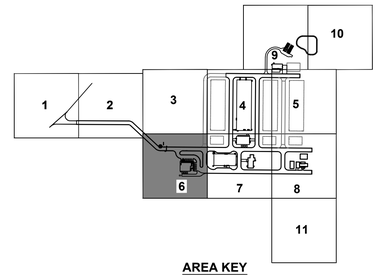
MH 2+78.58

MH 3+06.68

PT 2+78.32

CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	1158184.0098	2740237.4604	883.30	CTR
7	1158156.8904	2740212.2902	884.65	BC
8	1158149.6230	2740223.8022	883.98	MID
9	1158147.0110	2740237.1632	883.30	EC
12	1158147.1263	2740222.8105	883.98	PI
13	1158144.5180	2740547.4542	875.00	BRD2
15	1158026.3058	2740546.5044	873.80	BC
16	1158000.0566	2740557.1309	873.51	MID
19	1157989.3070	2740546.2072	873.51	PI
28	1158146.0405	2740357.9478	877.38	BDRWY1
29	1158119.0053	2740357.7268	876.93	BC
30	1158091.7330	2740384.6446	875.78	EC
31	1158118.7841	2740384.7773	877.04	CTR
32	1158091.0832	2740465.9888	875.25	BC
33	1158054.0844	2740465.6932	875.20	CTR
34	1158080.0265	2740492.0752	874.85	MID
35	1158053.7578	2740502.6918	874.46	EC
36	1158033.7796	2740502.5154	874.19	BC
37	1158002.8749	2740519.9103	873.68	MID
38	1158033.6408	2740538.4197	873.70	CTR
39	1158001.9853	2740555.3628	873.56	EC
40	1158099.7814	2740365.5243	876.08	MID



AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 6

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C118

PROJECT NO. 81000927

SHEET 18 OF 40

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL & STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

Sara Copeland, FAICP
Secretary of the City Plan Commission

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PLOT DATE 9/12/2025 12:31:46 AM by DAVID
G:\20004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C118-GRADING PLAN 6.DWG

MATCHLINE SEE SHEET C116

MATCHLINE SEE SHEET C118

MATCHLINE SEE SHEET C120

FUTURE BLOWER BUILDING FFE: 871

BLOWER BUILDING FFE: 871

FUTURE BLOWER BUILDING FFE: 865

SOLIDS BUILDING FFE: 872

SERIES 300 HEADWORKS BUILDING ELEV: 871

CONCRETE PAVEMENT (TYP.) (SEE DETAIL ON SHEET C134)

SIDEWALK (TYP.) (SEE DETAIL ON SHEET C134)

PIPE BOLLARD ON EACH SIDE OF OVERHEAD DOOR (TYP) (SEE DETAIL ON SHEET C134)

PROPOSED BOLLARD (TYP.) (SEE DETAIL SHEET C134)

ASPHALT PAVEMENT (TYP.) (SEE DETAIL, SHEET C134)

FENCE (SEE DETAILS ON SHEET C136) (SEE SPEC SEC 02820)

TREE LINE

CONSTRUCTION LIMITS

PROPERTY LINE

FLOOD LINE

MAIN ROAD-1

MAIN ROAD-2

MAIN ROAD-4

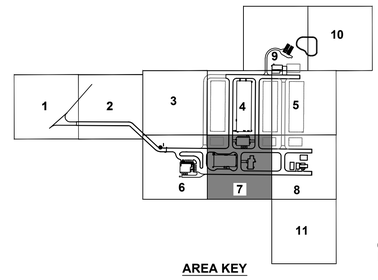
MAIN ROAD-5

MAIN ROAD-6

SOUTH LINE NORTHEAST 1/4 SECTION 36-T52N-R34W

EAST 1/2 25N / 34W

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
14	1158026.0085	2740583.5032	872.91	CTR
17	1157989.0097	2740583.2060	872.91	EC
24	1158143.0630	2740728.5502	871.86	ERD4
25	1158142.5838	2740788.2330	870.83	BRD6
26	1158141.5927	2740911.5443	870.00	ERD5
41	1157987.3726	2740786.9861	868.73	ERD6



AREA KEY

0 10' 20' 40'

SCALE IN FEET

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A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 7

FOR WSD USE:

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO

DATE COMPLETED:

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C119

PROJECT NO. 81000927

SHEET 19 OF 40

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

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G:\20\0004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C119-GRADING PLAN 7.DWG

MATCHLINE SEE SHEET C117

MATCHLINE SEE SHEET C119

FUTURE BLOWER BUILDING FFE: 859

INFLUENT PUMP STATION ELECTRICAL BUILDING FFE: 859

VALVE VAULT STATION FFE: 856

INFLUENT PUMP STATION FFE: 856

INFLUENT SCREENING STRUCTURE FFE: 856

MAIN ROAD 1

MAIN ROAD 7

MAIN ROAD 2

PROPERTY LINE

FENCE
(SEE DETAILS ON SHEET C136)
(SEE SPEC SEC 02820)

FLOOD LINE

TREE LINE

CONSTRUCTION LIMITS

ASPHALT PAVEMENT (TYP.)
(SEE DETAIL ON SHEET C134)

POINT OF BEGINNING
SOUTH TRACT

NE CORNER SW 1/4
SECTION 1-52N-R34W
MO. STATE BAR

SE CORNER SW 1/4
SECTION 1-52N-R34W

S00°27'39"W
327.69'

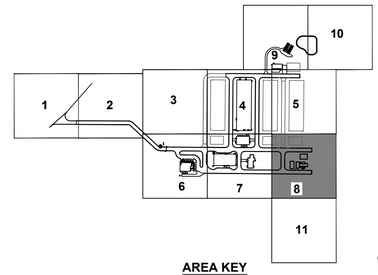
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3.0:1

40.6:1

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	1158138.4935	2741297.2798	860.00	PI
18	1157983.2828	2741296.0579	856.00	PI
27	1158140.1224	2741094.5403	858.20	BRD7
42	1157984.9118	2741093.2922	856.17	ERD7



AREA KEY

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 8

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C120

PROJECT NO. 81000927

SHEET 20 OF 40

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

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9400 WARD PARKWAY
KANSAS CITY, MO 64114
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Secretary of the City Plan Commission

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CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
44	1158788.5219	2740976.7451	856.69	BC
45	1158788.0078	2741040.7430	853.37	CTR
46	1158843.6748	2741009.1649	852.79	MID
47	1158843.2030	2741073.1388	845.99	EC
48	1158793.3574	2741158.0343	843.17	EACRD1

FENCE
(SEE DETAILS ON SHEET C136)
(SEE SPEC SEC 02820)

CONSTRUCTION LIMITS

DETENTION BASIN
(SEE DETAIL SHEET C137)

FUTURE CASCADE AERATION

CASCADE AERATION TOW EL: 848

RIP RAP

TREE LINE (Typical)

Approx limits of Floodway Areas in Zone AE (100) Year Flood)

ACCESS ROAD 1

SWALE CL

CONCRETE PAVEMENT (TYP.)
(SEE DETAIL ON SHEET C134)

PROPOSED BOLLARD (TYP.)
(SEE DETAIL SHEET C134)

GRAVEL ROAD (TYP.)
(SEE DETAIL ON SHEET C123)

FOR DOOR STOOP DETAILS (TYP)
(SEE STRUCTURAL SHEETS)

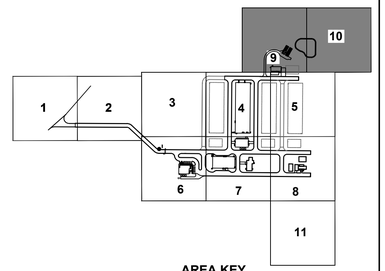
SERIES 600
UV DISINFECTION
STRUCTURE
FFE: 858

FUTURE FILTER
BUILDING
(BY OTHERS)

MATCHLINE SEE SHEET C116

MATCHLINE SEE SHEET C117

MATCHLINE SEE SHEET C117



AREA KEY

NORTH

0 10' 20' 40'
SCALE IN FEET

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 9

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C121

PROJECT NO. 81000927

SHEET 21 OF 40

KCWATER

CUSTOM ENGINEERING
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CIVIL & STRUCTURAL ENGINEERING

WELLNER architects

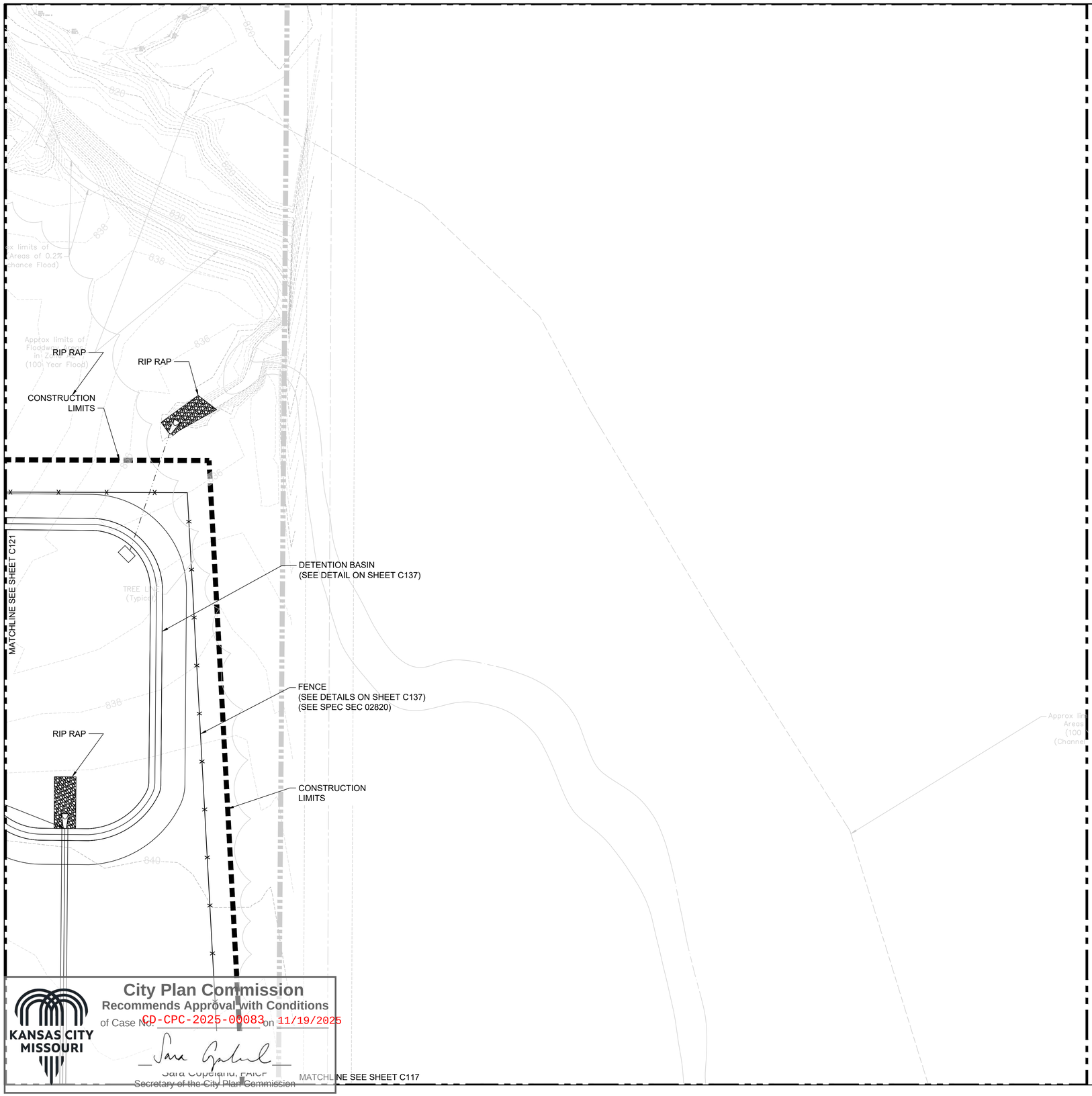
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

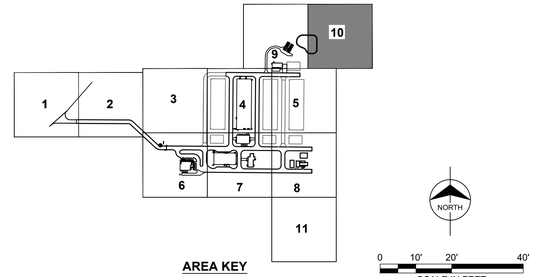
KANSAS CITY MISSOURI

City Plan Commission
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Sara Copeland, FAICP
Secretary of the City Plan Commission

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G:\20004 - TODD CREEK CIVIL\01-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C121-GRADING PLAN 9.DWG





AREA KEY

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

GRADING PLAN 10

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C122

PROJECT NO. 81000927 SHEET 22 OF 40

KCWATER
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DuBois Consultants
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

KANSAS CITY MISSOURI

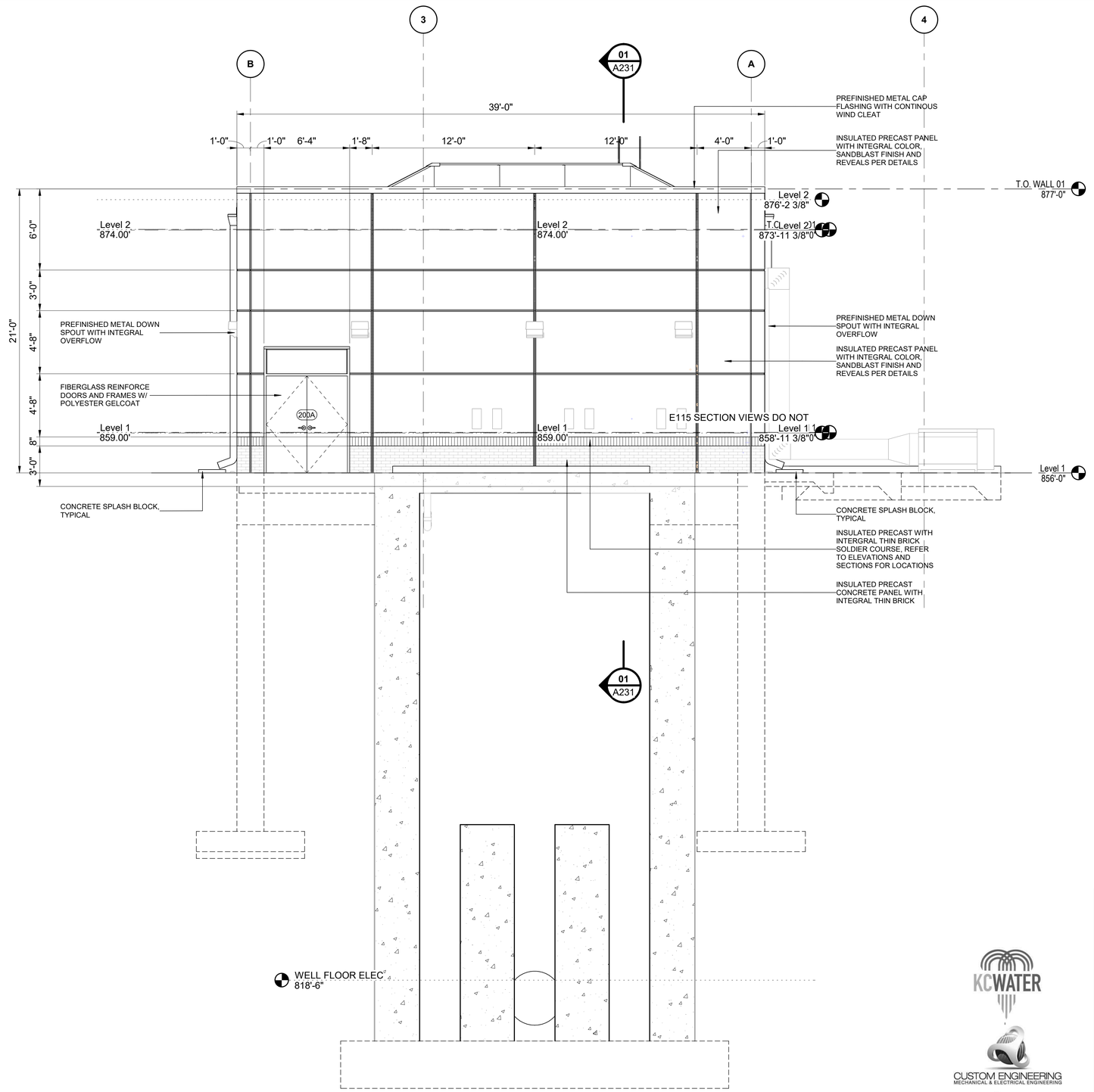
City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025
Sara Copeland, FAICP
Secretary of the City Plan Commission

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G:\J20004 - TODD CREEK CIVIL\07-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C122-GRADING PLAN 10.DWG

Attachment 3

Building Elevations

9400 Ward Parkway | Kansas City, MO 64114 | burnsmcd.com



ELEVATION — 01 A212

WEST ELEVATION

0 2' 4' 8'

SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	9/12/25	JB	AM	ISSUED FOR 60% REVIEW

REVISIONS

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW Interurban Road, KANSAS CITY, MO 64163

INFLUENT PUMP STATION SCREENING EXTERIOR ELEVATION

JASON SCOTT BARKER
ARCHITECTURAL
A-2005001198

FOR WSD USE:

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BK	JB		34W	52N	01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
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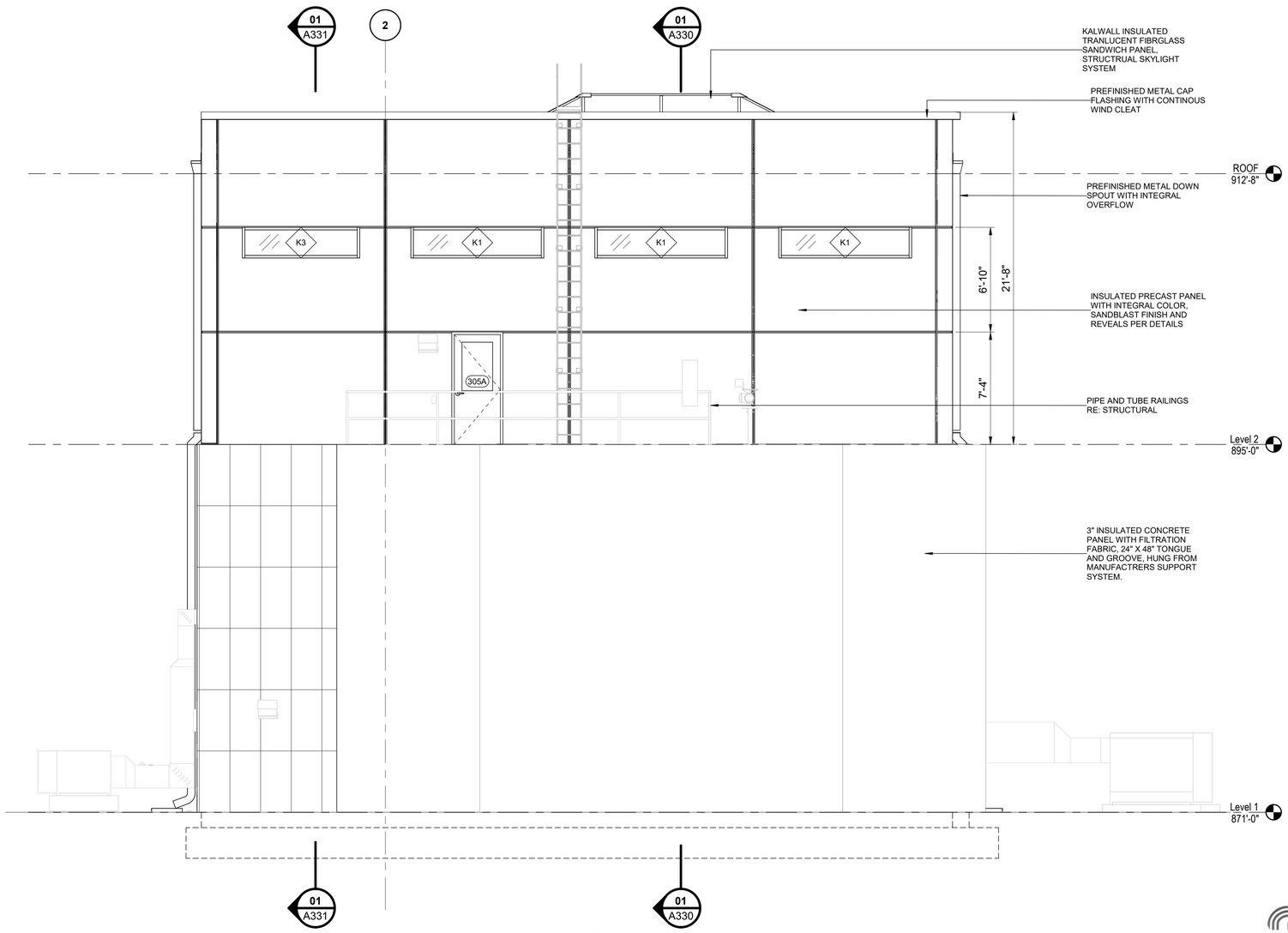
PROJECT NO. 81000927 SHEET OF 560

KCWATER
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DuBois Consultants CIVIL + STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
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KANSAS CITY MISSOURI

City Plan Commission
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Secretary of the City Plan Commission



ELEVATION 02 A301

NORTH ELEVATION

0 2' 4' 8'

SCALE IN FEET

City Plan Commission
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REVISIONS

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW Interurban Road, KANSAS CITY, MO 64163

HEADWORKS EXTERIOR ELEVATION

JASON SCOTT BARKER
ARCHITECTURAL
A-2005001198

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KANSAS CITY, MO 64114
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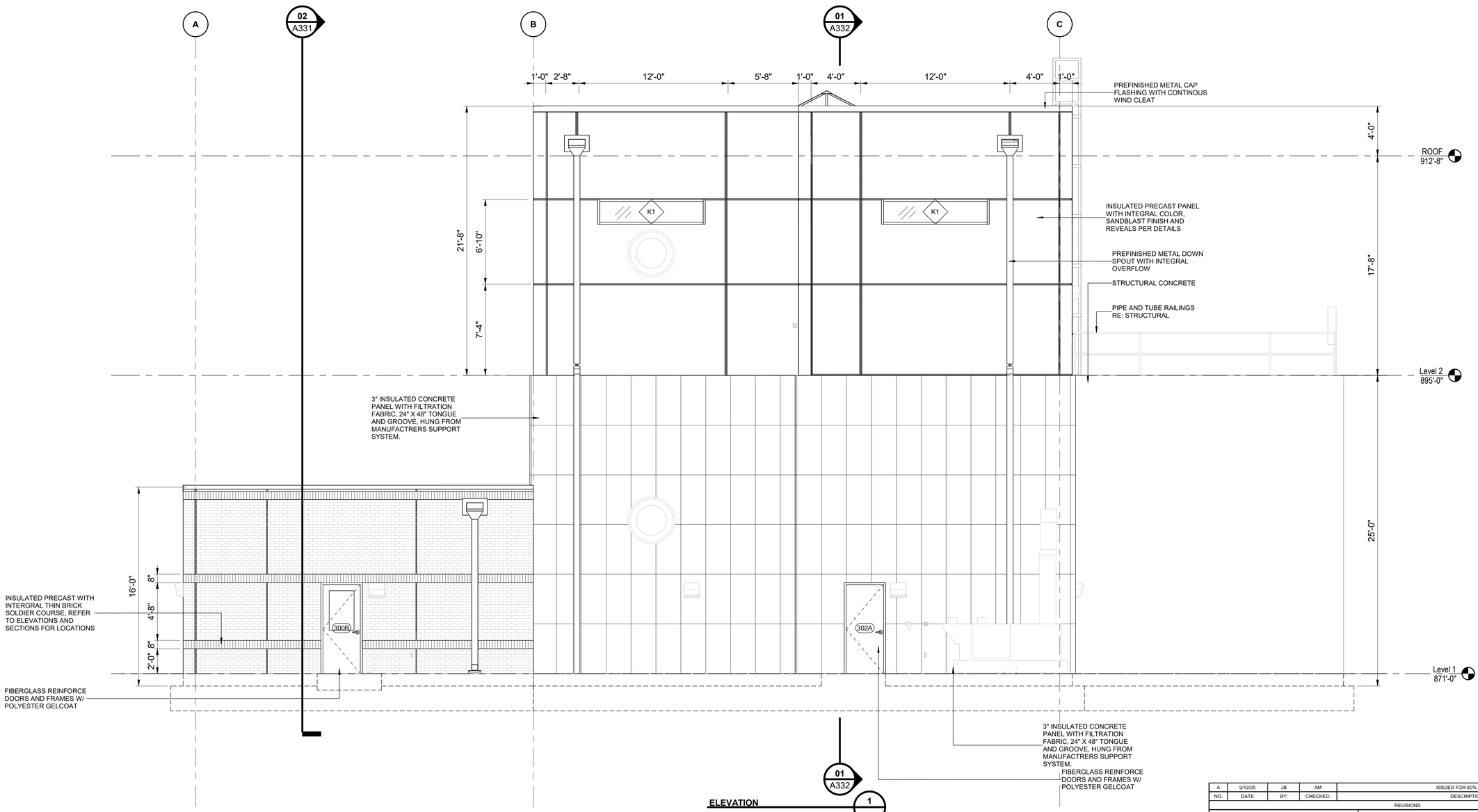
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BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A320

PROJECT NO. 81000927 SHEET OF 560



NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	9/12/25	JB	AM	ISSUED FOR 60% REVIEW

REVISIONS

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW Interurban Road, KANSAS CITY, MO 64163

HEADWORKS EXTERIOR ELEVATION

JASON SCOTT BARKER
ARCHITECTURAL
A-2005001198

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BK	JB		34W	53N	36

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CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A321

PROJECT NO. 81000927 SHEET OF 560

KANSAS CITY MISSOURI

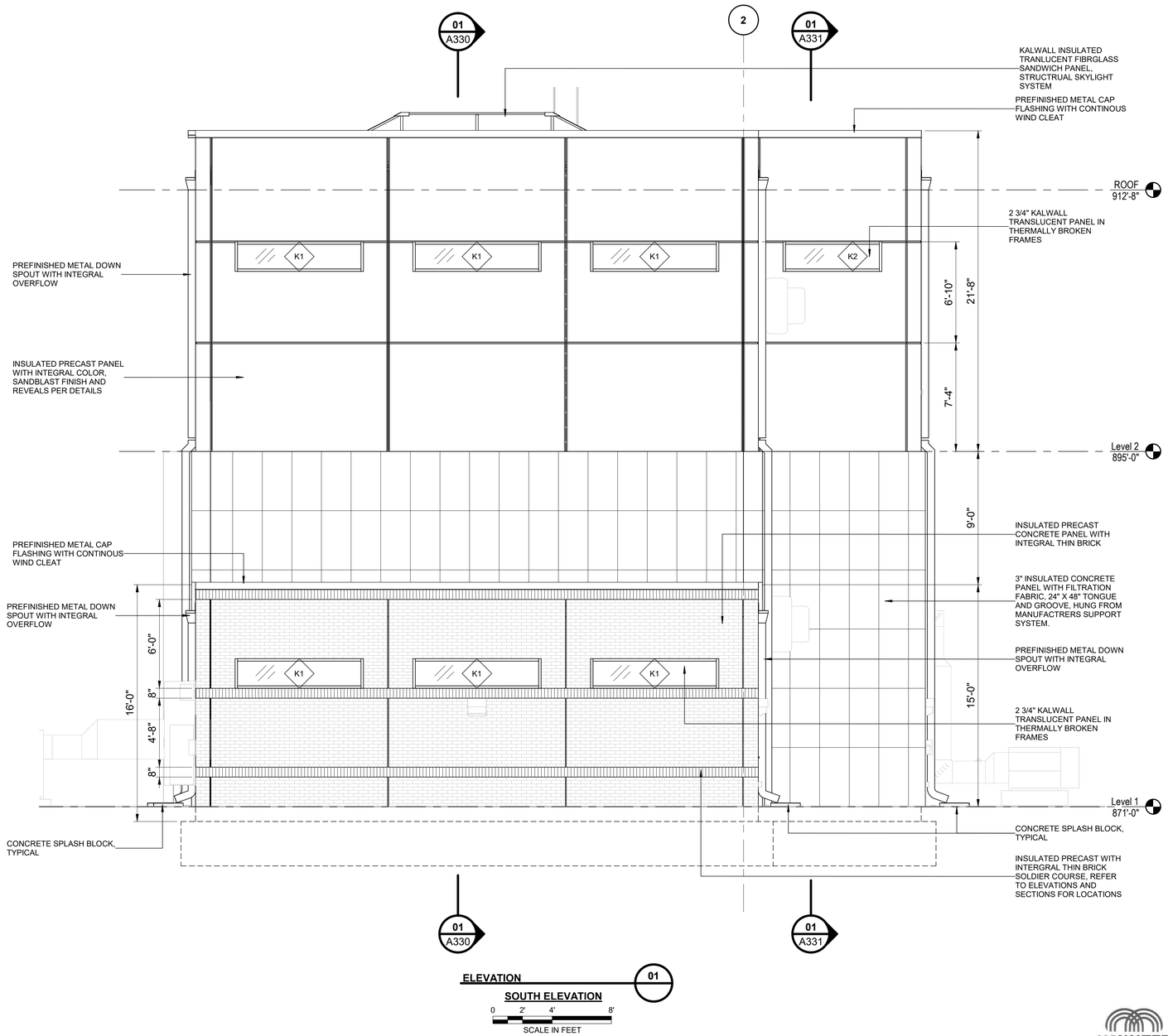
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WELLNER architects
BURNS McDONNELL
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816-333-9400
Licensee No. 000165

9/11/2025 3:51:49 PM Autodesk Docs://125460_ToddCreekFP/125460_Headworks_A.rvt



ELEVATION 01

SOUTH ELEVATION

0 2' 4' 8'

SCALE IN FEET

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REVISIONS

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW Interurban Road, KANSAS CITY, MO 64163

HEADWORKS EXTERIOR ELEVATION

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ARCHITECTURAL
A-2005001198

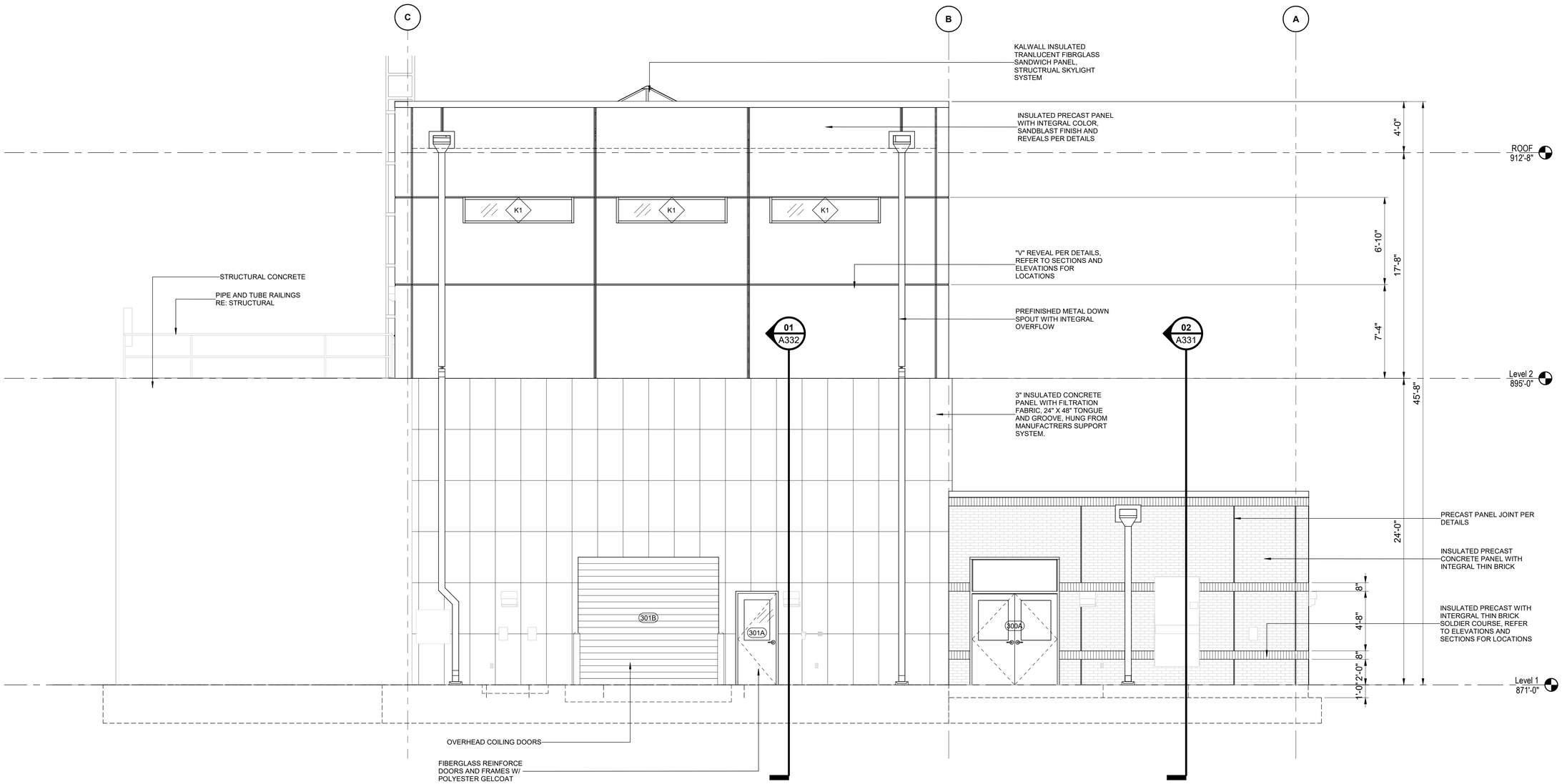
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BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A322

PROJECT NO. 81000927 SHEET OF 560



ELEVATION 01

WEST ELEVATION

0 2' 4' 8'

SCALE IN FEET

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	9/12/25	JB	AM	ISSUED FOR 60% REVIEW

REVISIONS

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW Interurban Road, KANSAS CITY, MO 64163

HEADWORKS EXTERIOR ELEVATION

JASON SCOTT BARKER
ARCHITECTURAL
A-2005001198

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A323

PROJECT NO. 81000927 SHEET OF 560

KCWATER

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MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL • STRUCTURAL ENGINEERING

WELLNER architects

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KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
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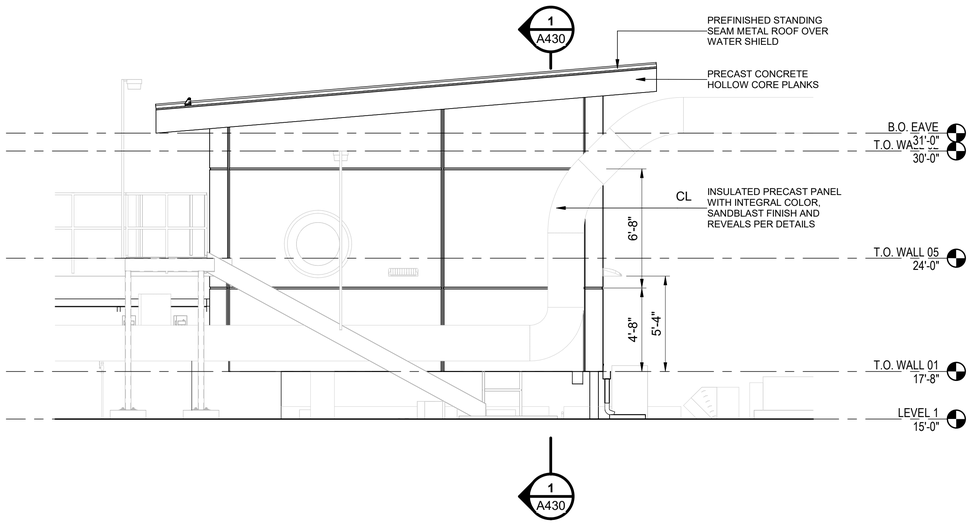
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KANSAS CITY MISSOURI

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Secretary of the City Plan Commission

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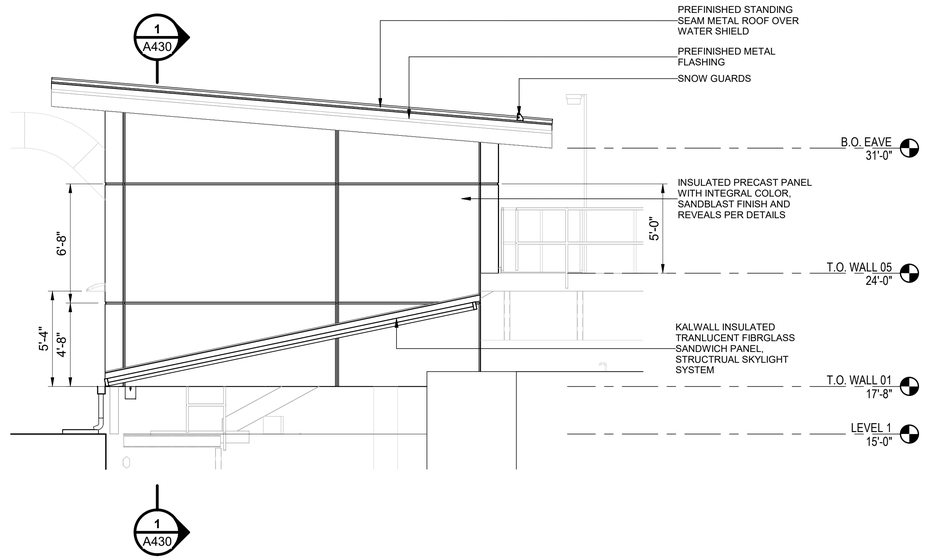


ELEVATION 02 A412

WEST ELEVATION SW TOWER

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET

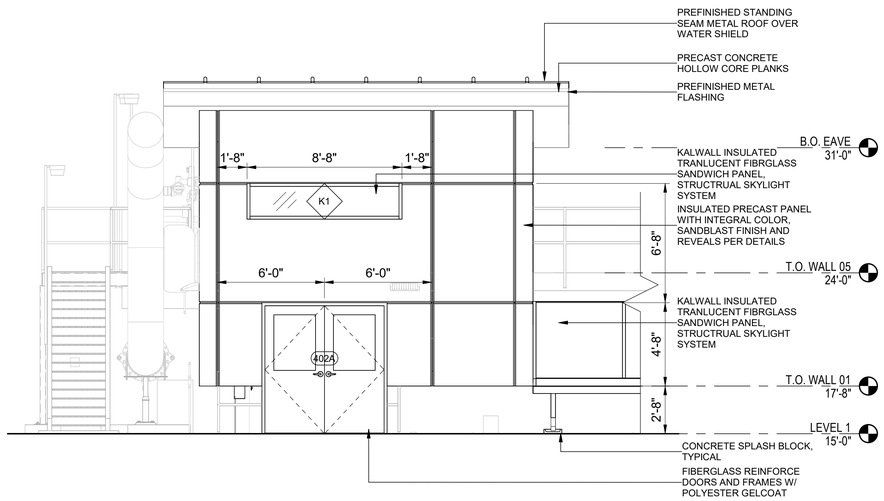


ELEVATION 01 A412

EAST ELEVATION SW TOWER

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET

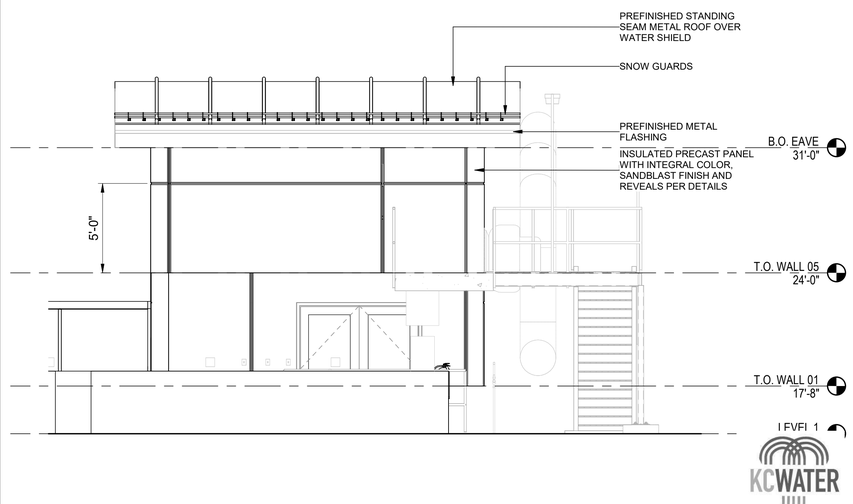


ELEVATION 04 A412

SOUTH ELEVATION SW TOWER

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET



ELEVATION 03 A412

NORTH ELEVATION SW TOWER

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

KANSAS CITY MISSOURI

City Plan Commission
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Sara Copeland, FAICP
Secretary of the City Plan Commission

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CIVIL + STRUCTURAL ENGINEERS

WELLNER architects

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NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	9/12/25	JB	AM	ISSUED FOR 60% REVIEW

REVISIONS

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ARCHITECTURAL
A-2005001198

FOR WSD USE:

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

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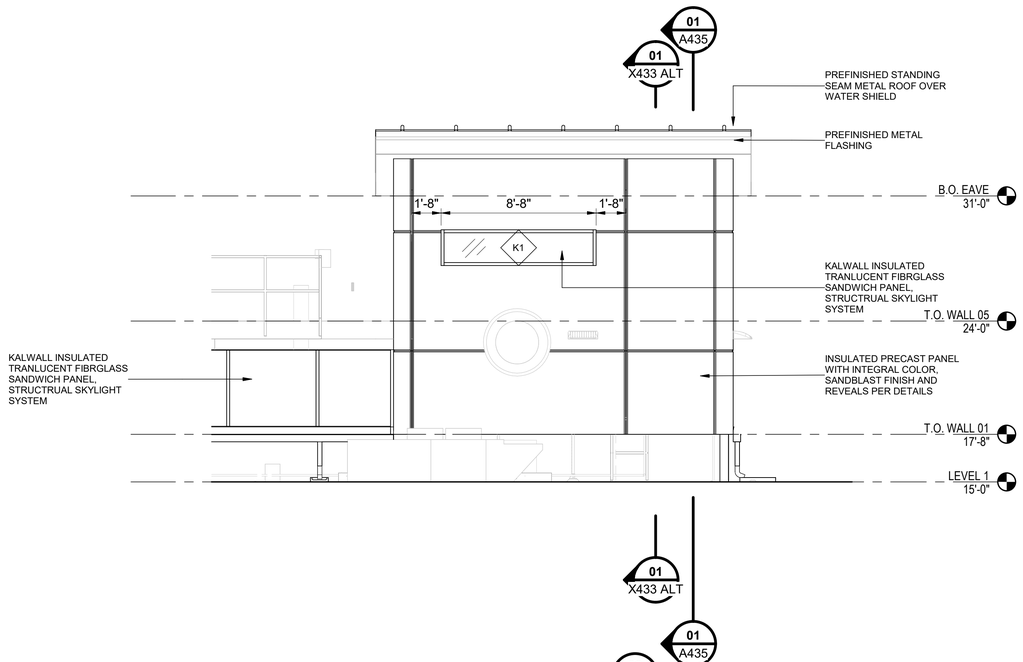
AGS BASIN EXTERIOR ELEVATIONS SW STAIR

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A420

PROJECT NO. 81000927 SHEET OF 560

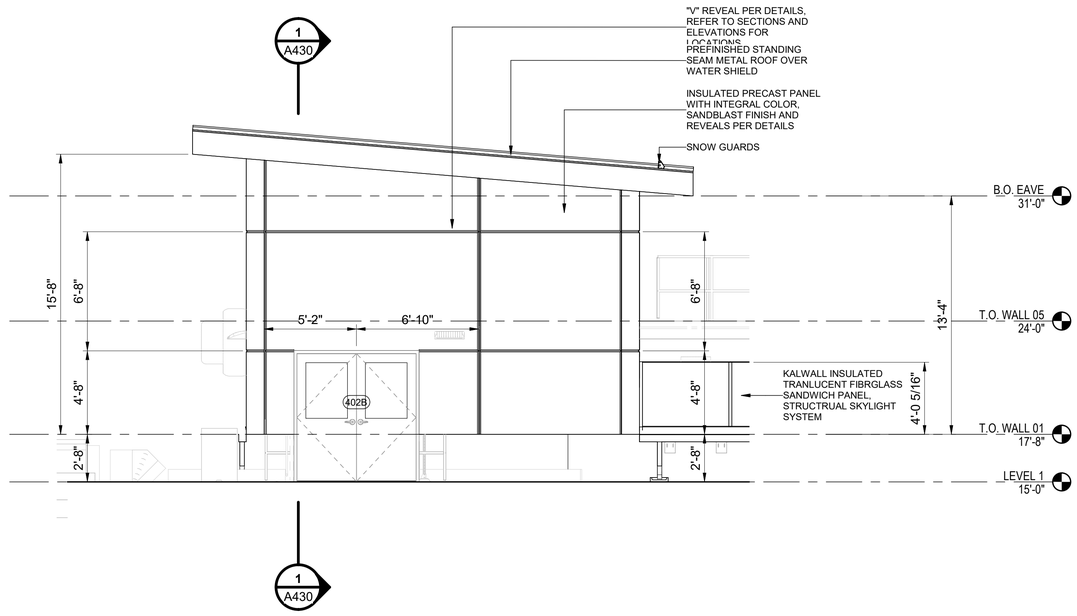


ELEVATION 02

SOUTH ELEVATION SE TOWER

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET

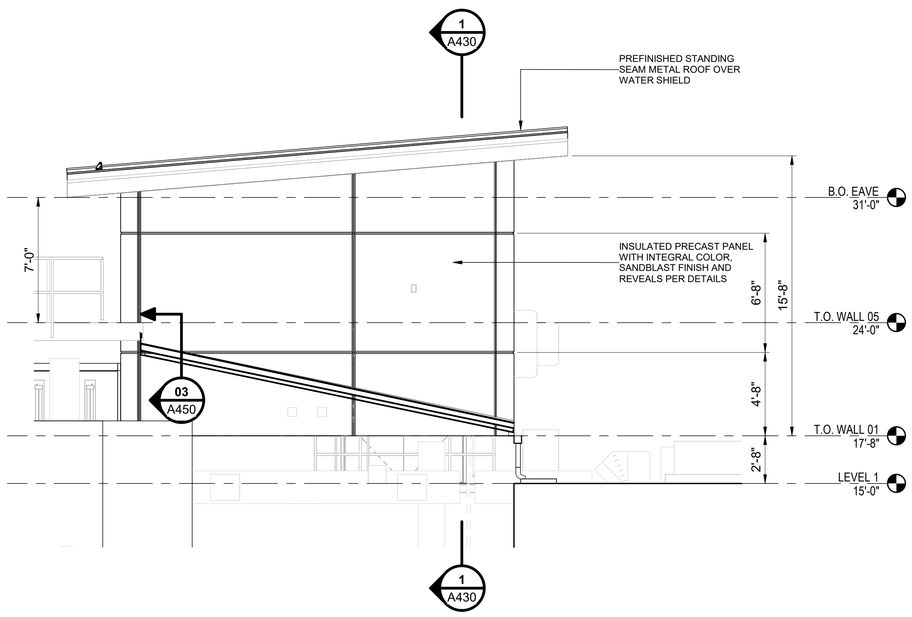


ELEVATION 01

EAST ELEVATION SE TOWER

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET

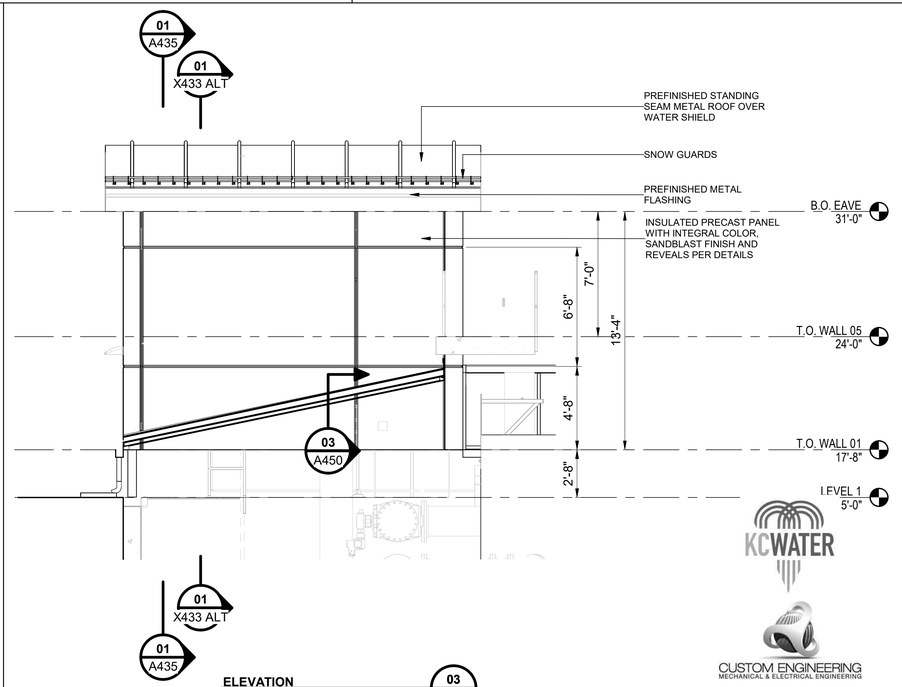


ELEVATION 04

WEST ELEVATION SE TOWERS

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET



ELEVATION 03

NORTH ELEVATION SE TOWER

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET

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KANSAS CITY MISSOURI

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AGS BASIN EXTERIOR ELEVATIONS SE STAIR

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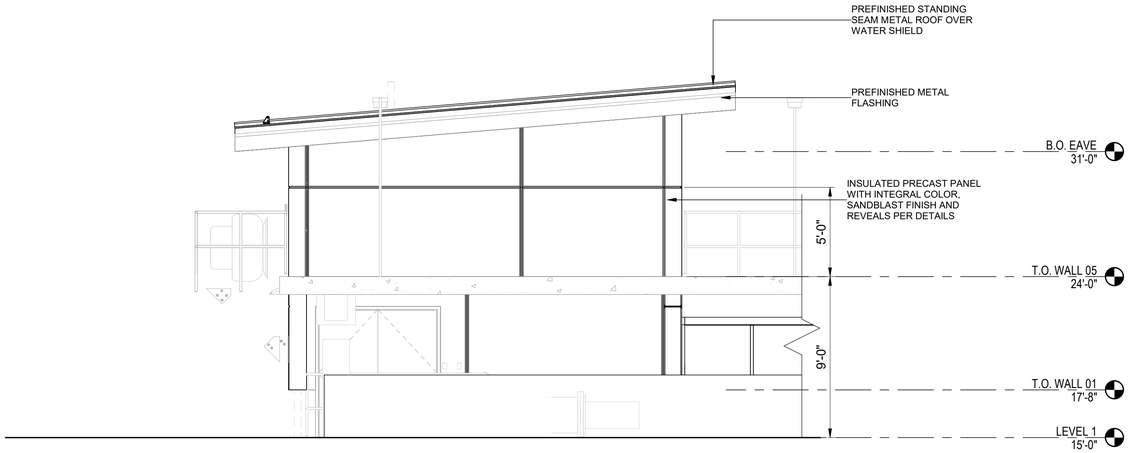
FOR WSD USE:

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BK	JB		34W	53N	36

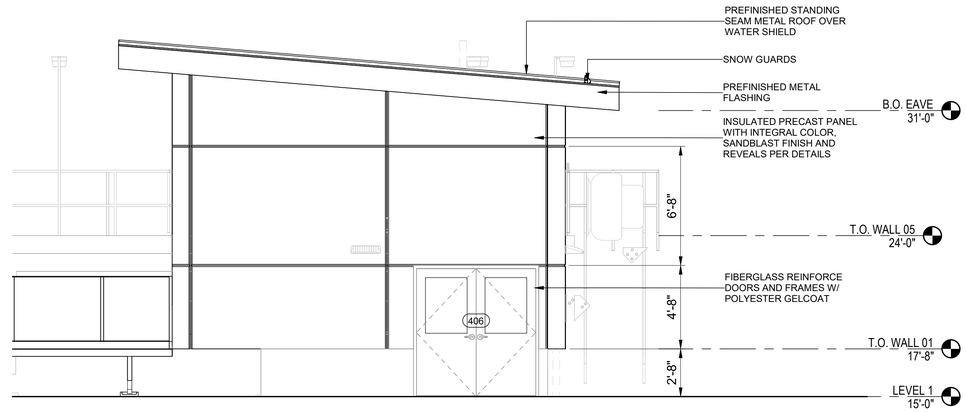
CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A421

PROJECT NO. 81000927 SHEET OF 560

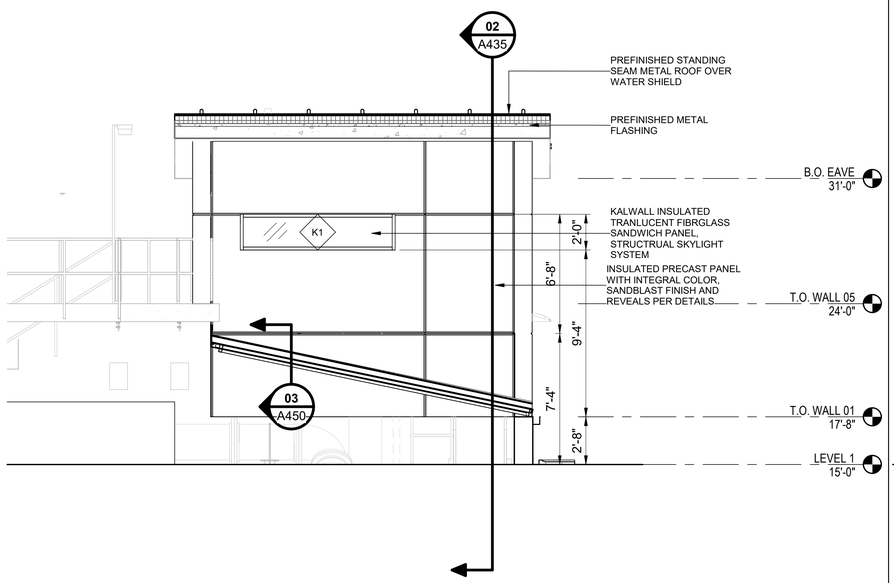


ELEVATION 02
WEST ELEVATION NE TOWER
0 0 2'3" 4' 6" 8'9"
SCALE IN FEET

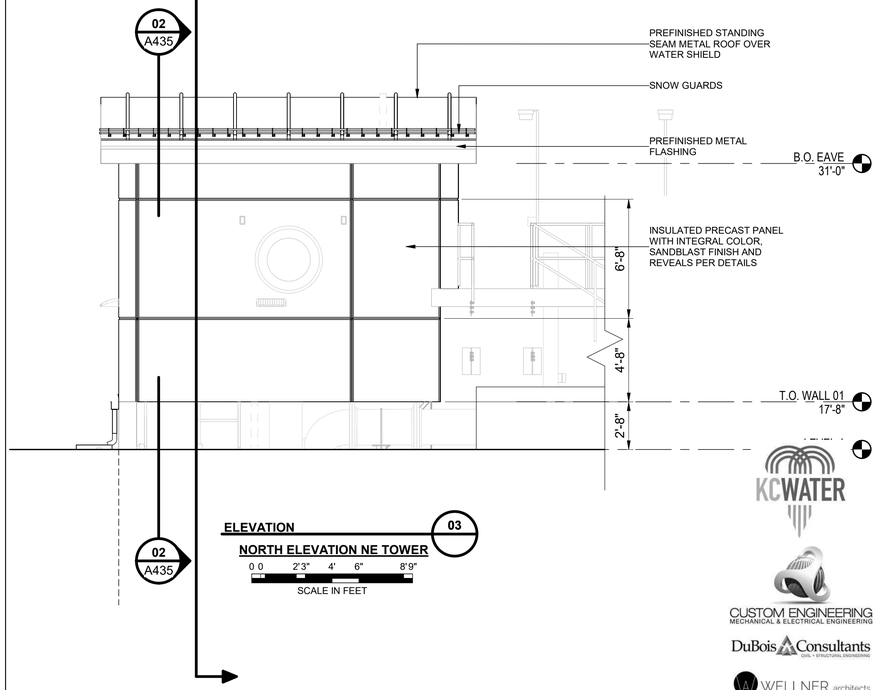


ELEVATION 01
EAST ELEVATION NE TOWER
0 0 2'3" 4' 6" 8'9"
SCALE IN FEET

02 X433 ALT



ELEVATION 04
SOUTH ELEVATION NE TOWER
0 0 2'3" 4' 6" 8'9"
SCALE IN FEET



ELEVATION 03
NORTH ELEVATION NE TOWER
0 0 2'3" 4' 6" 8'9"
SCALE IN FEET

KANSAS CITY MISSOURI

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

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AGS BASIN EXTERIOR ELEVATIONS NE STAIR

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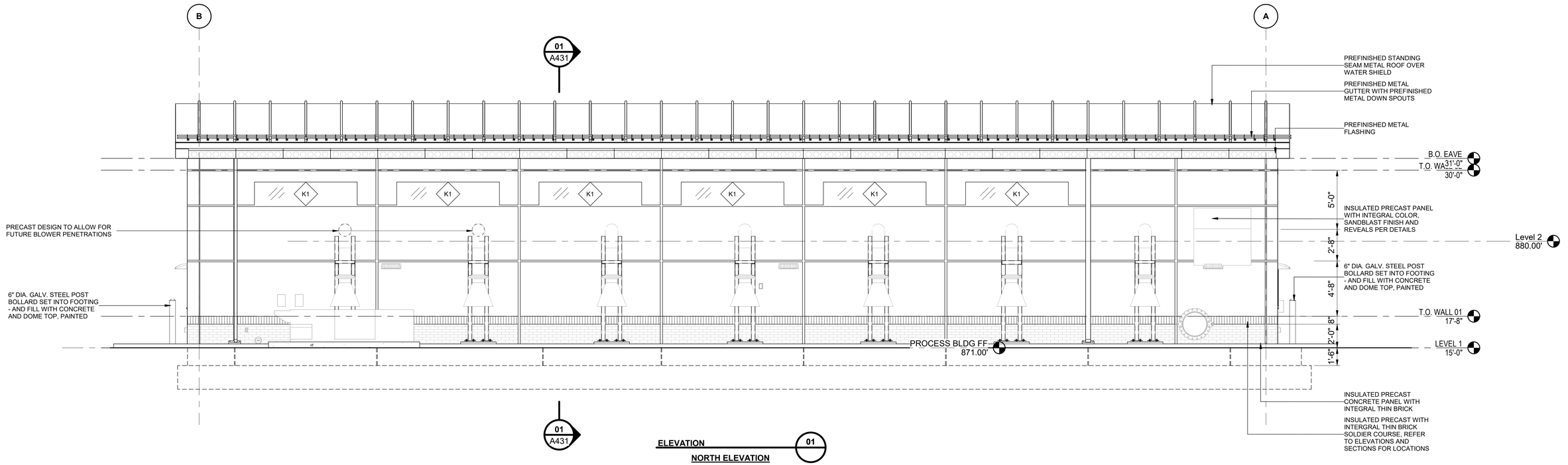
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BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A422

PROJECT NO. 81000927 SHEET OF 560

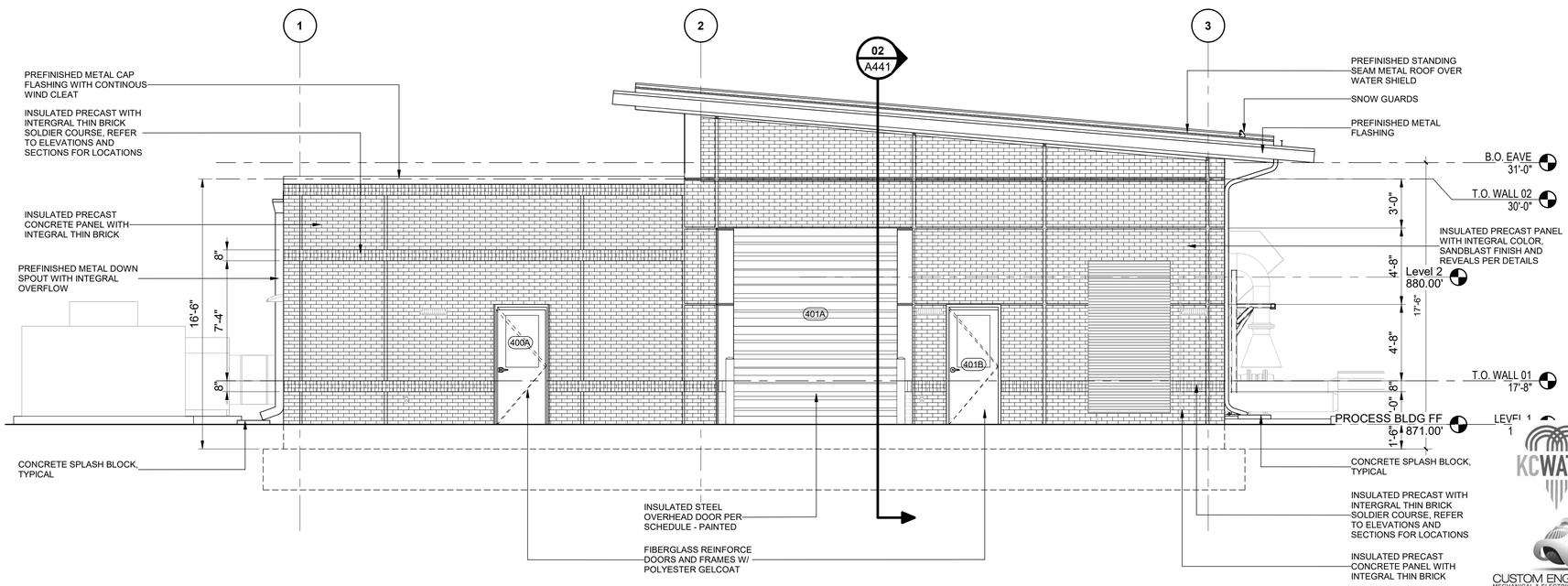


ELEVATION 01

NORTH ELEVATION

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET



ELEVATION 02

EAST ELEVATION

0 0 2'3" 4' 6" 8'9"

SCALE IN FEET

City Plan Commission
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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

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BLOWER BUILDING EXTERIOR ELEVATIONS

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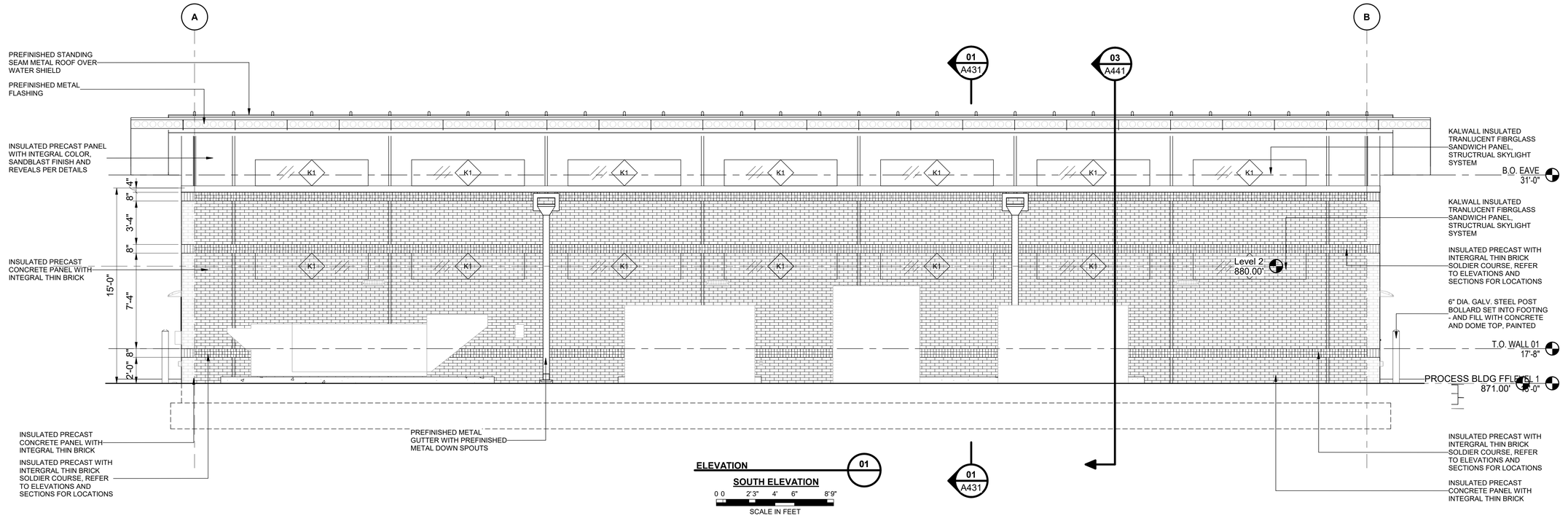
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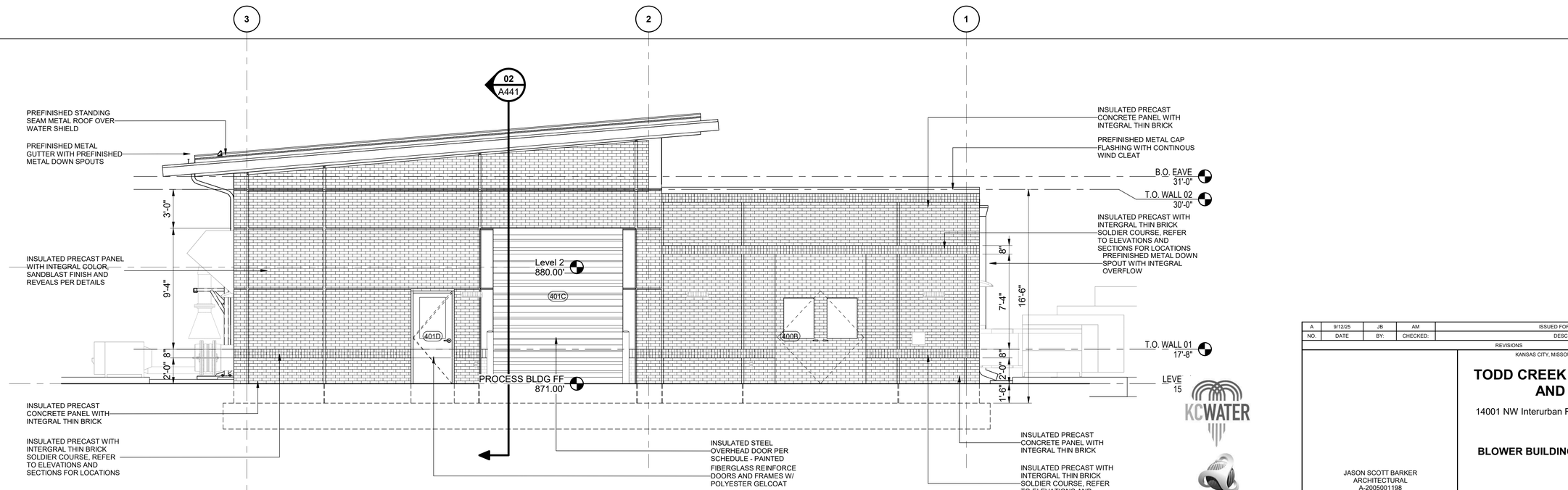
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BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A423

PROJECT NO. 81000927 SHEET OF 560





City Plan Commission
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REVISIONS

JASON SCOTT BARKER
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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW Interurban Road, KANSAS CITY, MO 64163

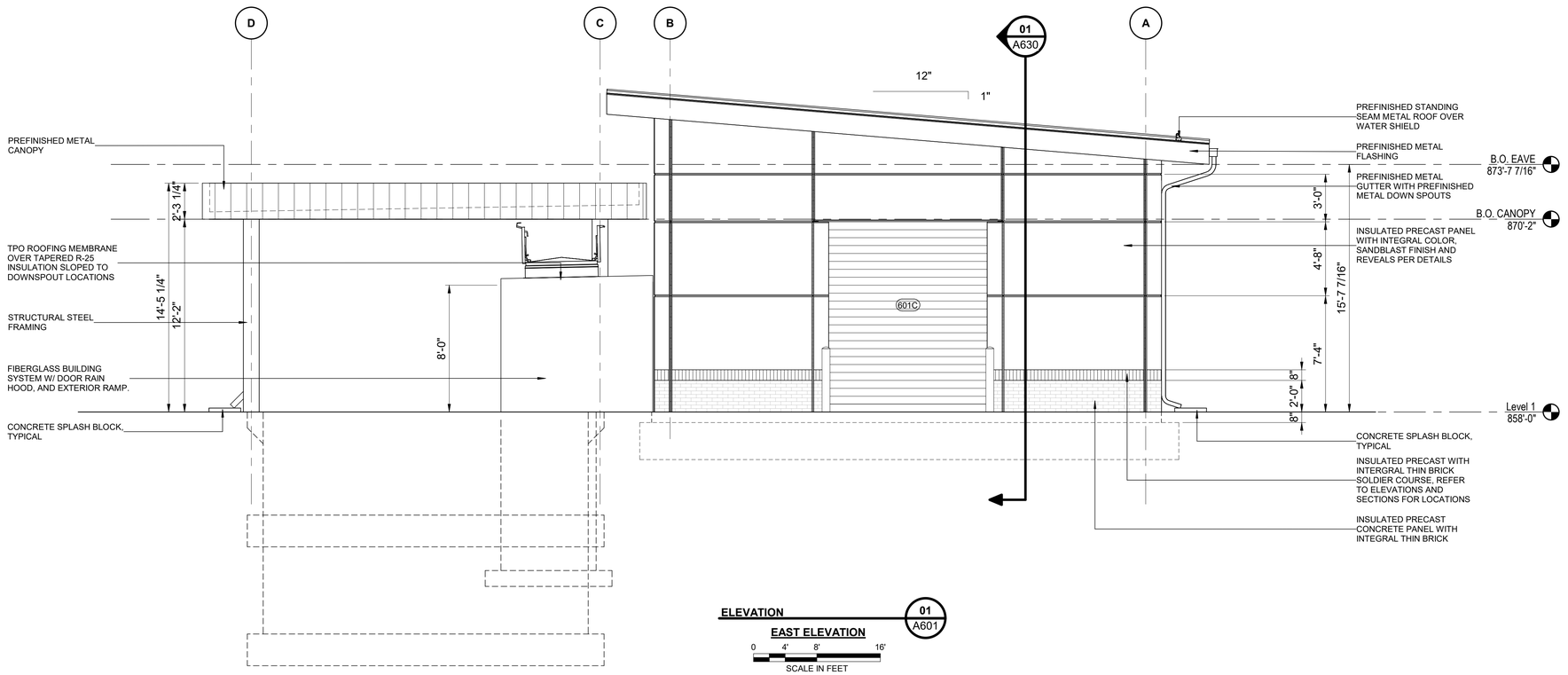
BLOWER BUILDING EXTERIOR ELEVATIONS

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A424

PROJECT NO. 81000927 SHEET OF 560

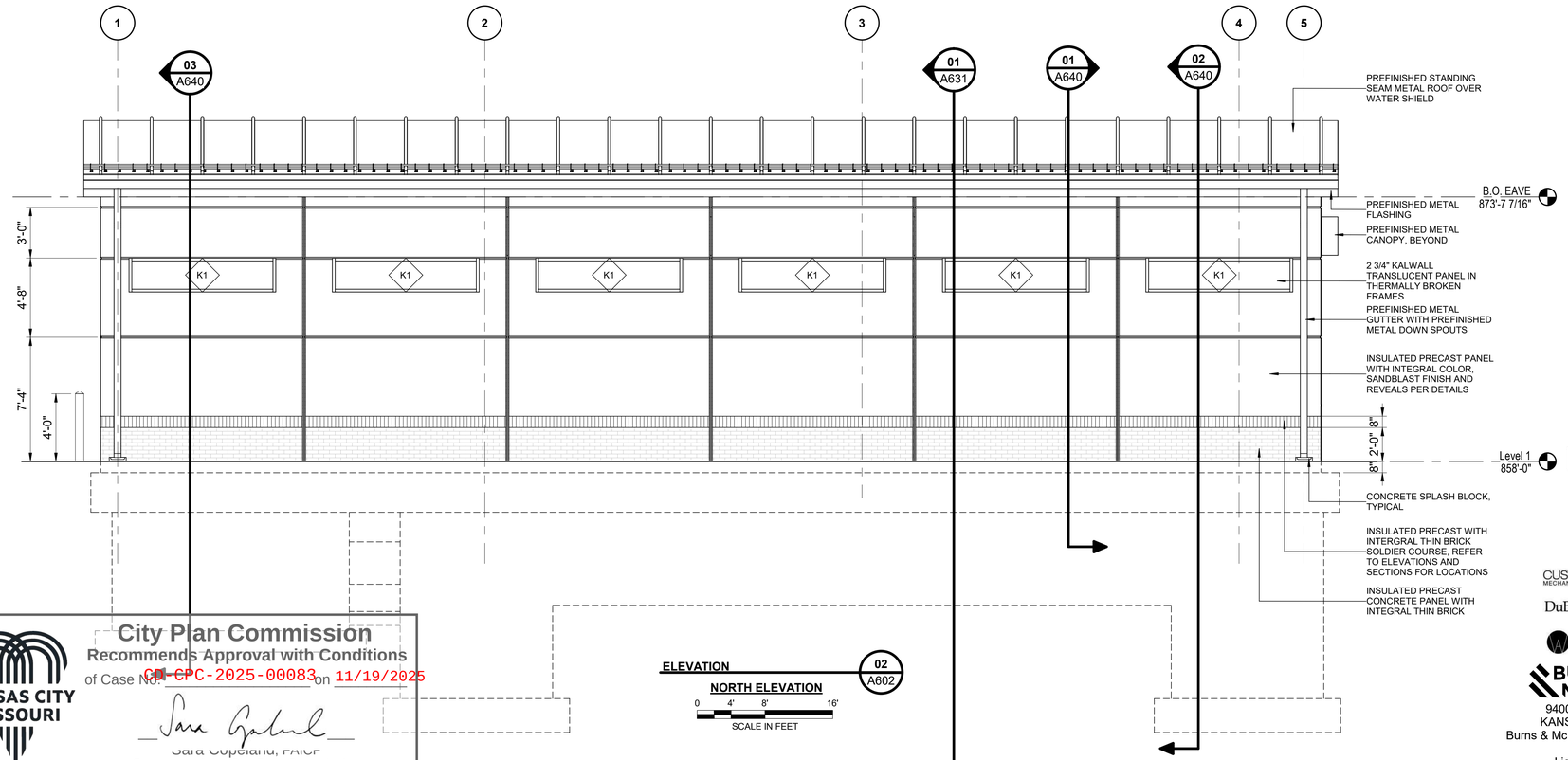


ELEVATION 01 A601

EAST ELEVATION

0 4' 8' 16'

SCALE IN FEET



ELEVATION 02 A602

NORTH ELEVATION

0 4' 8' 16'

SCALE IN FEET

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

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UV DISINFECTION EXTERIOR ELEVATIONS

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WELLNER architects

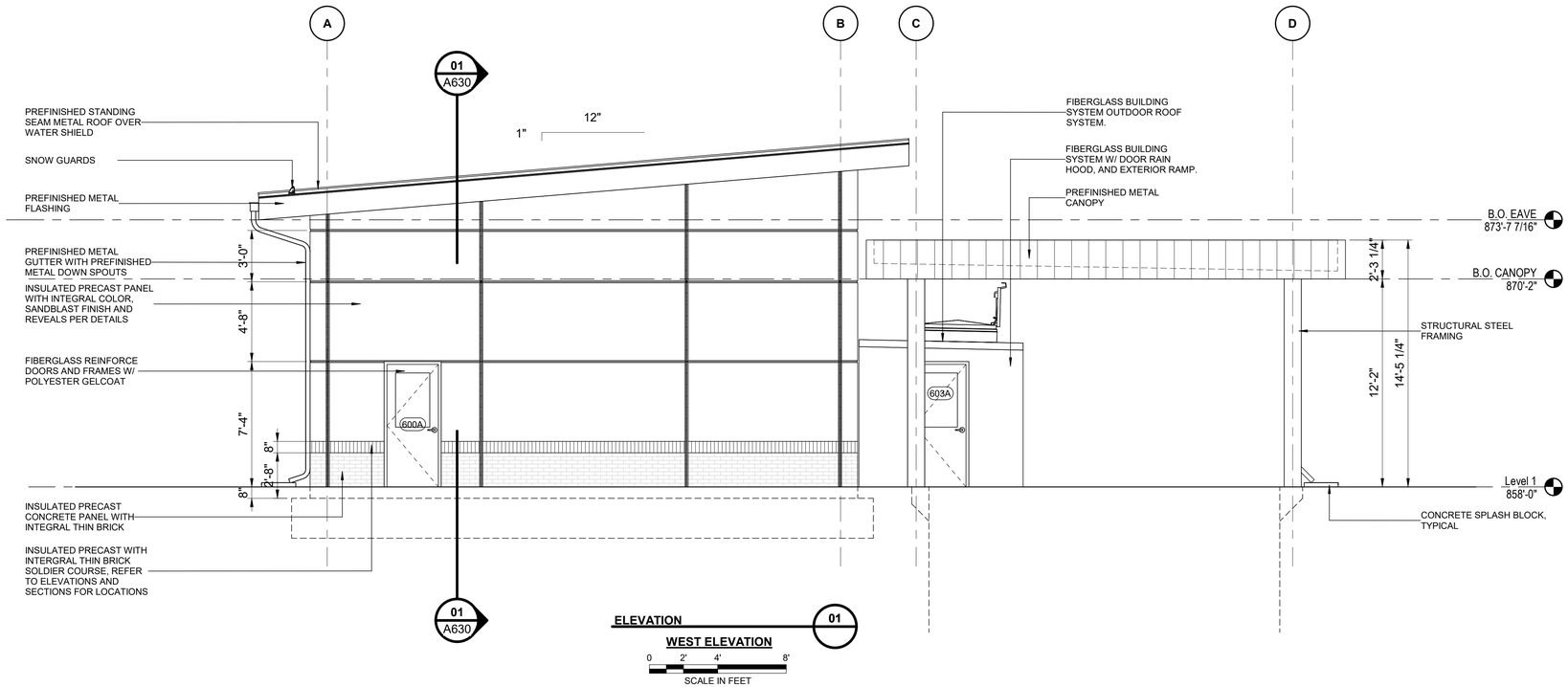
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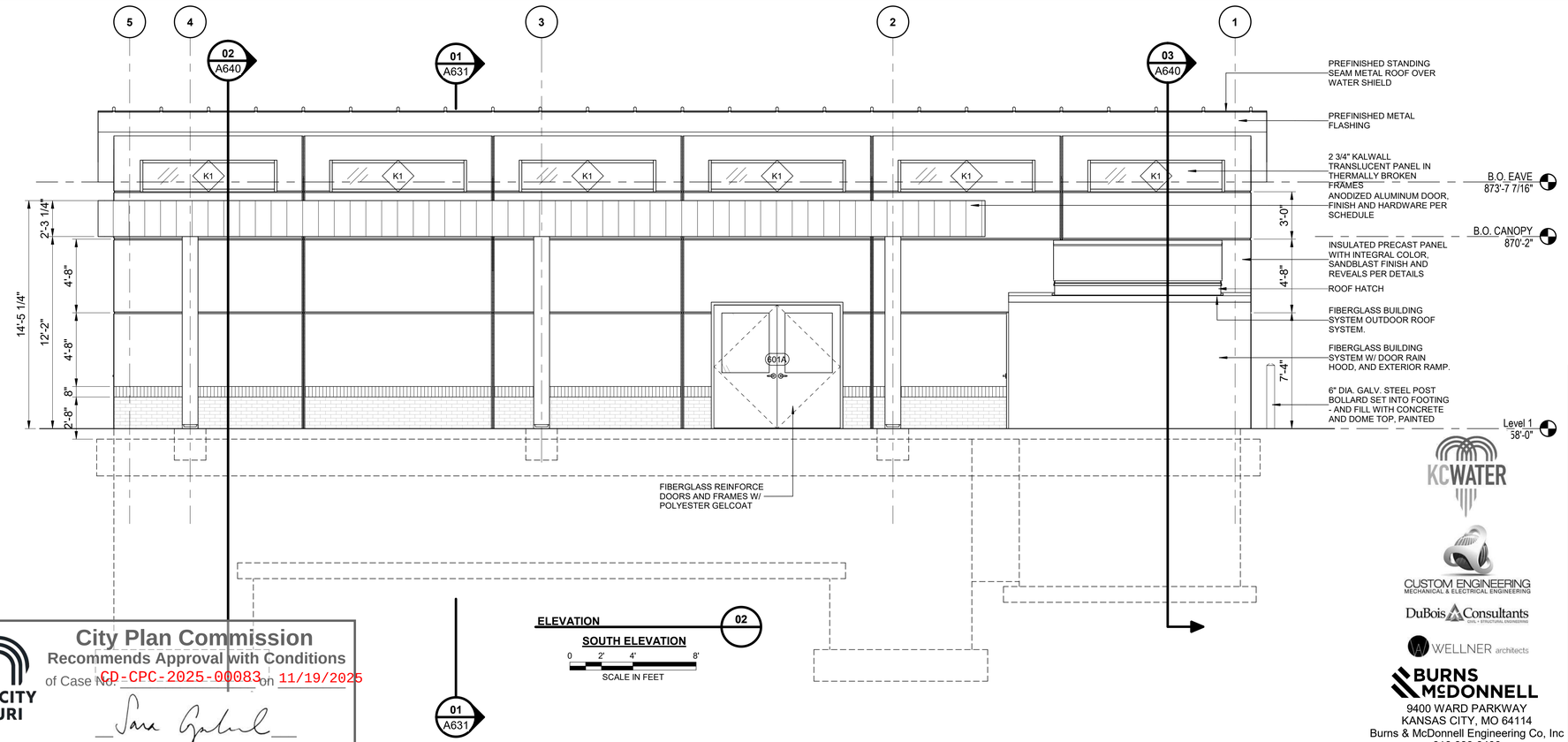
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BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A620

PROJECT NO. 81000927 SHEET OF 560





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UV DISINFECTION EXTERIOR ELEVATIONS

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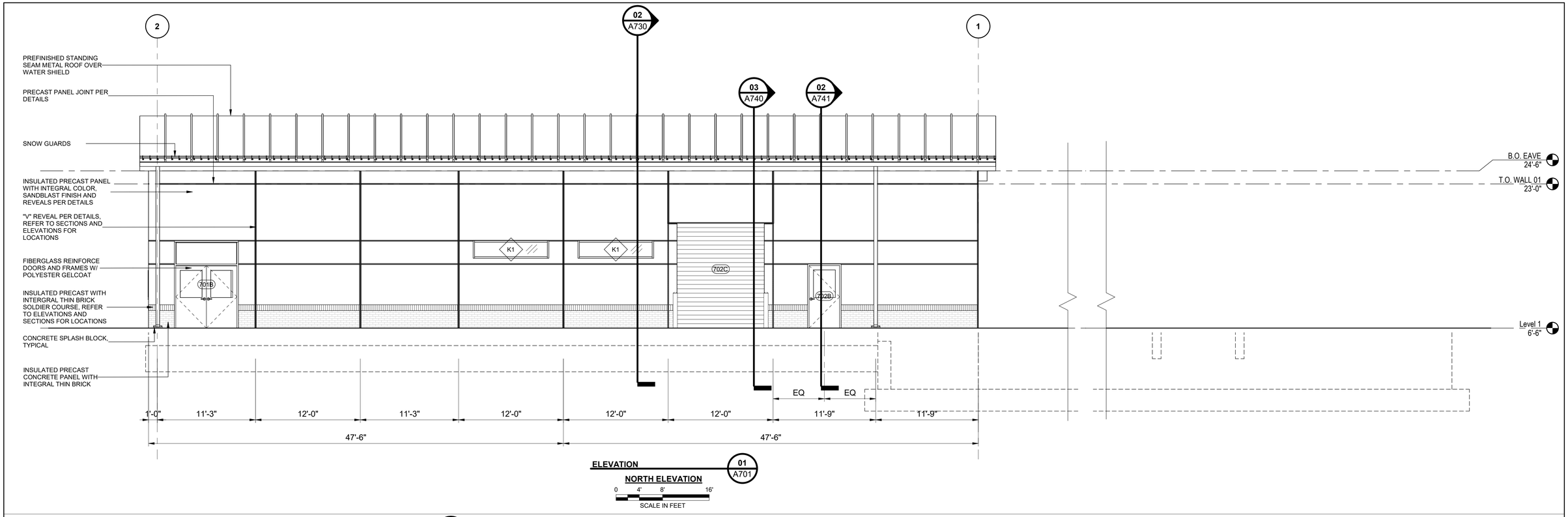
FOR WSD USE:

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BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
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CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A621

PROJECT NO. 81000927 SHEET OF 560

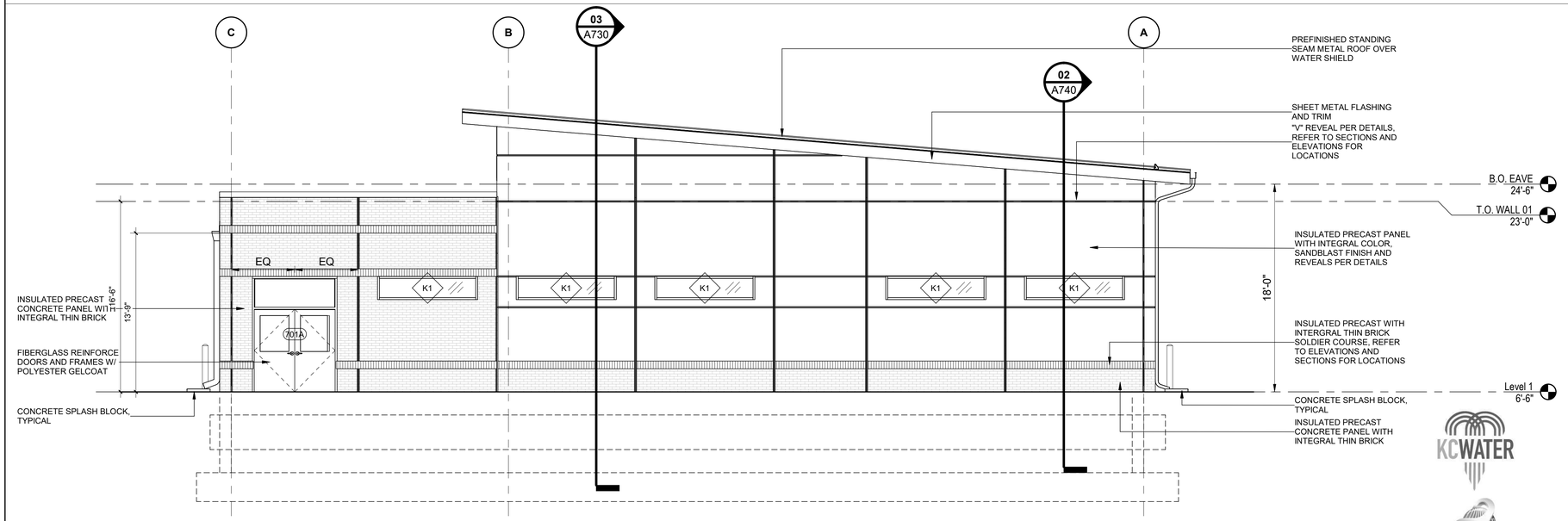


ELEVATION 01 A701

NORTH ELEVATION

0 4' 8' 16'

SCALE IN FEET



ELEVATION 02 A701

EAST ELEVATION

0 4' 8' 16'

SCALE IN FEET

KANSAS CITY MISSOURI

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SOLIDS HANDLING EXTERIOR ELEVATIONS

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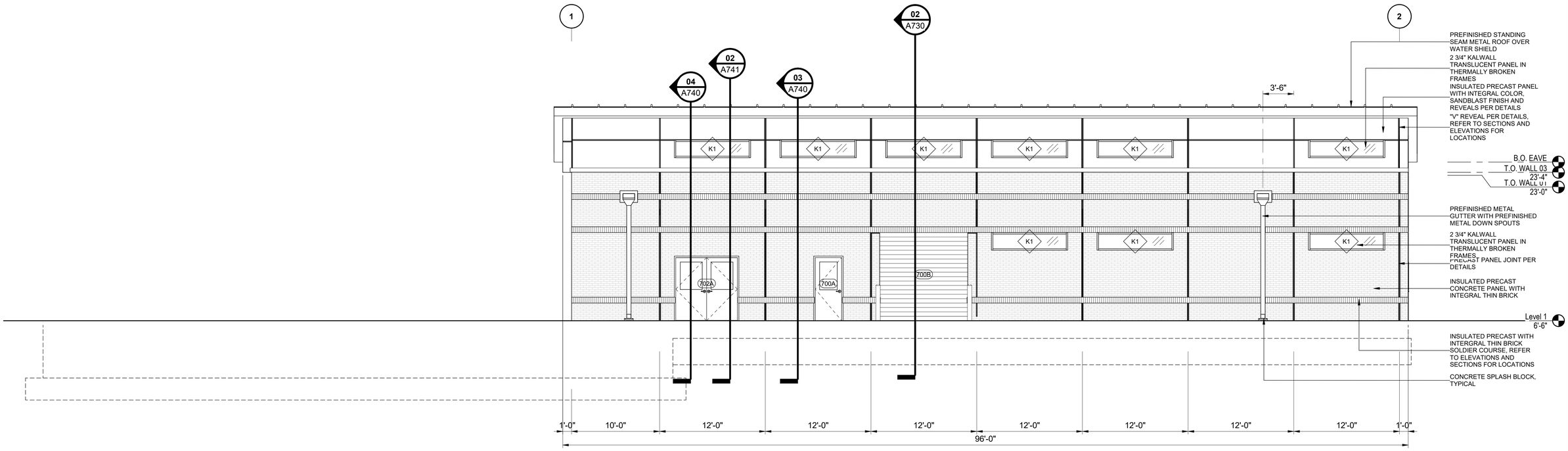
FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A720

PROJECT NO. 81000927 SHEET OF 560

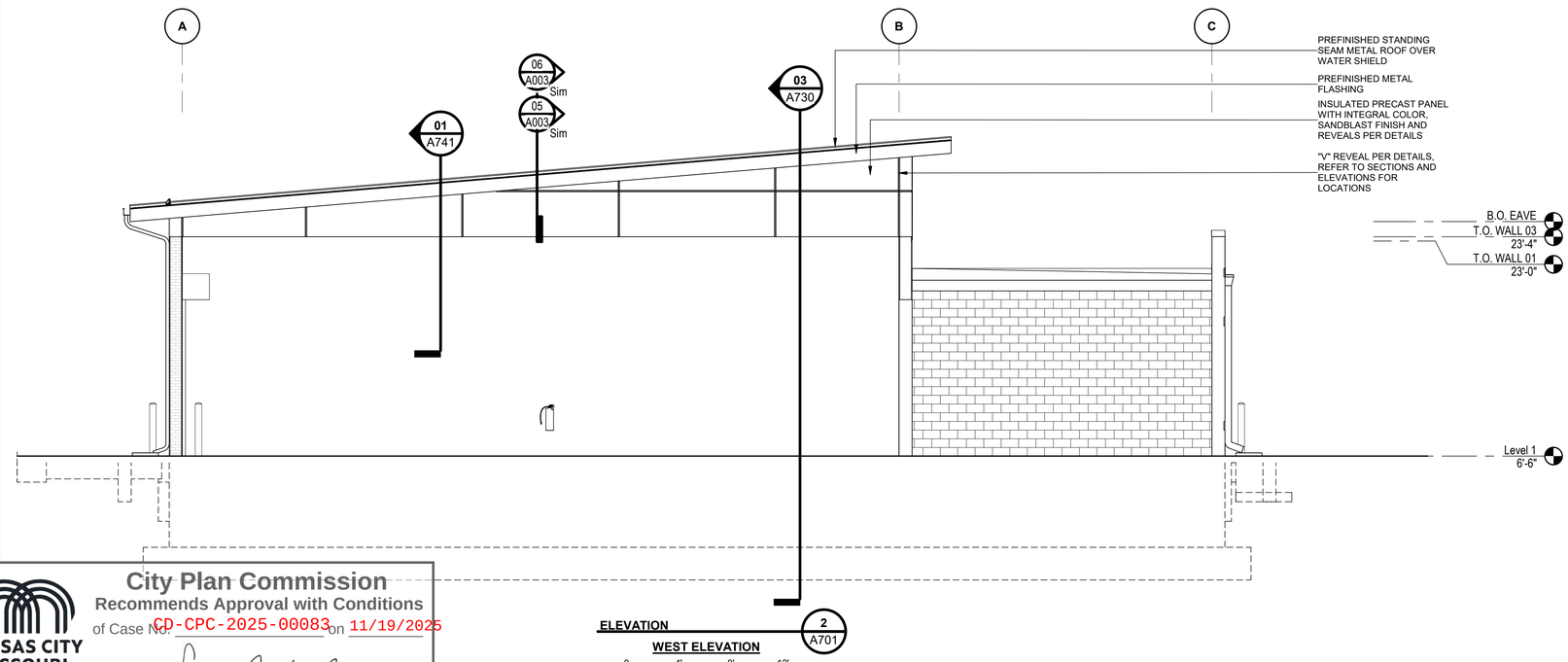


ELEVATION 1 A701

SOUTH ELEVATION

0 4' 8' 12'

SCALE IN FEET



ELEVATION 2 A701

WEST ELEVATION

0 4' 8' 12'

SCALE IN FEET

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SOLIDS HANDLING EXTERIOR ELEVATIONS

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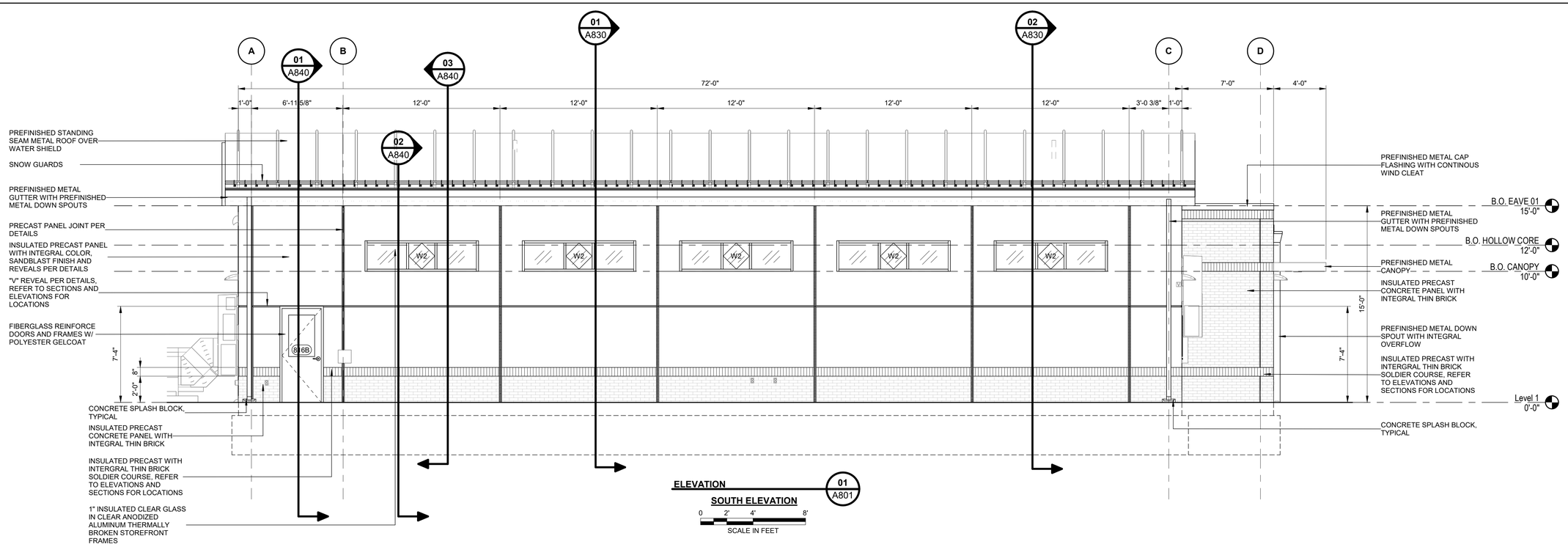
FOR WSD USE:

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BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
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CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A721

PROJECT NO. 81000927 SHEET OF 560

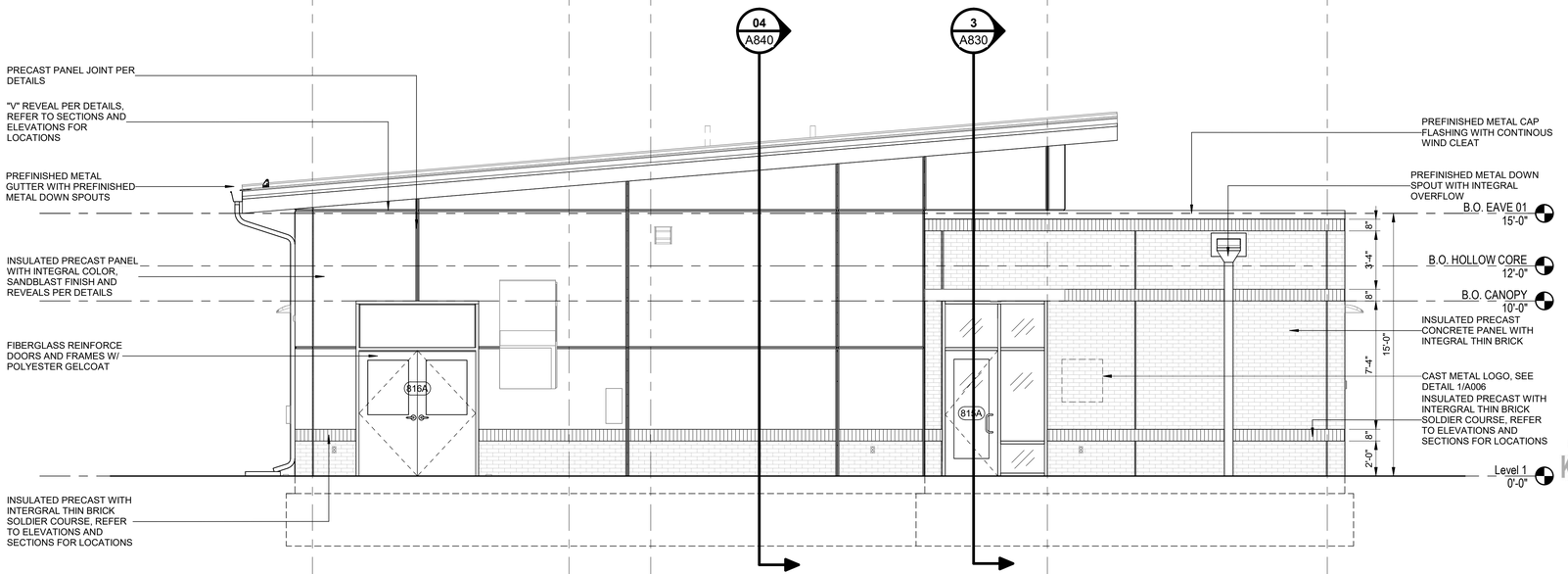


ELEVATION 01 A801

SOUTH ELEVATION

0 2' 4' 8'

SCALE IN FEET



ELEVATION 02 A801

EAST ELEVATION CORRECTED

0 2' 4' 8'

SCALE IN FEET

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Licensee No. 000165

NO.	DATE	BY:	CHECKED:	REVISIONS
A	9/12/25	JB	AM	ISSUED FOR 60% REVIEW

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW Interurban Road, KANSAS CITY, MO 64163

ADMIN EXTERIOR ELEVATIONS

JASON SCOTT BARKER
ARCHITECTURAL
A-2005001198

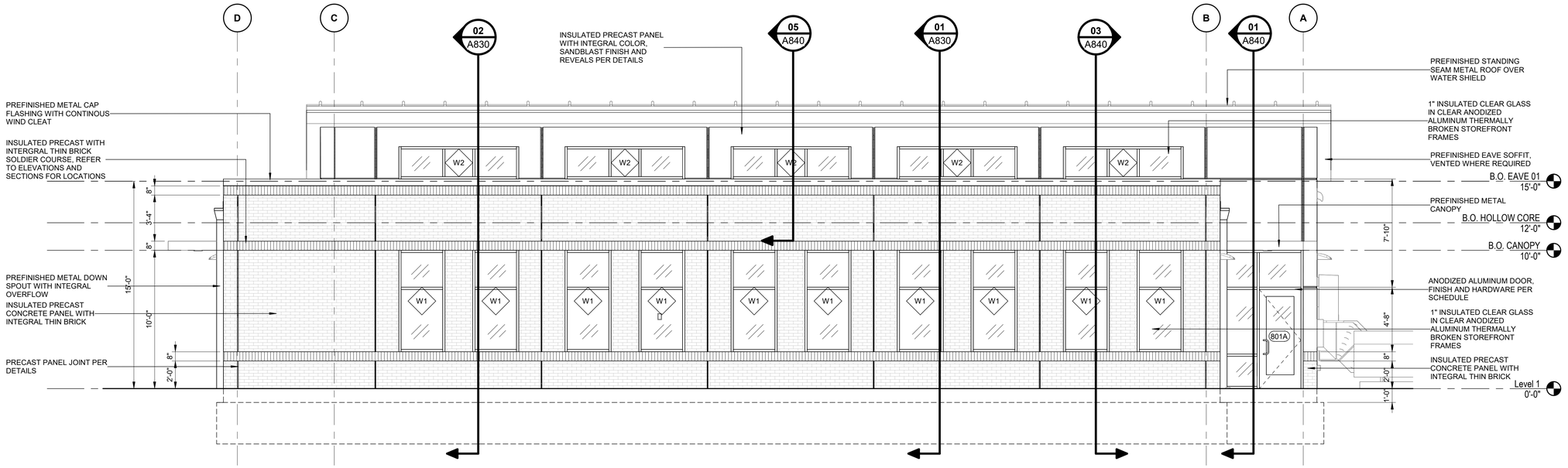
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DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

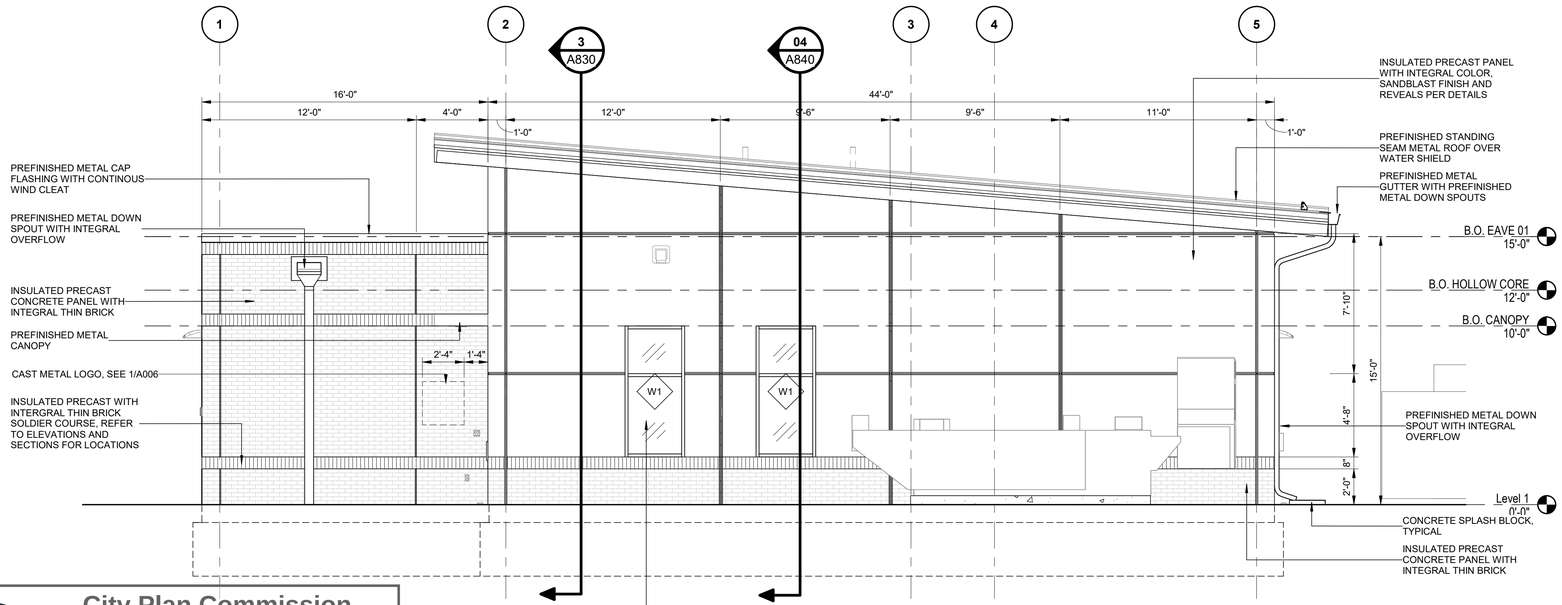
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	A820

PROJECT NO. 81000927 SHEET OF 560



ELEVATION 01
NORTH ELEVATION CORRECTED

0 2' 4' 8'
SCALE IN FEET



ELEVATION 02
WEST ELEVATION CORRECTED

0 2' 4' 8'
SCALE IN FEET

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025

Sara Copeland, FAICP
Secretary of the City Plan Commission

KANSAS CITY MISSOURI

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
Licensee No. 000165

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	9/12/25	JB	AM	ISSUED FOR 60% REVIEW

REVISIONS

JASON SCOTT BARKER
ARCHITECTURAL
A-2005001198

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW Interurban Road, KANSAS CITY, MO 64163

ADMIN EXTERIOR ELEVATIONS

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
BK	JB		34W	53N	36

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	

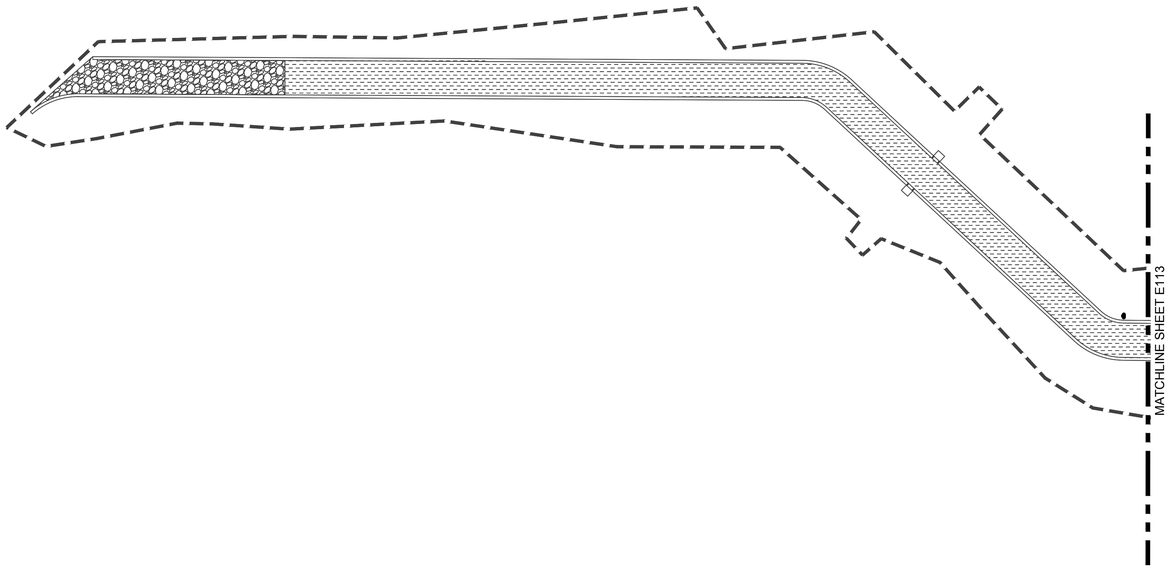
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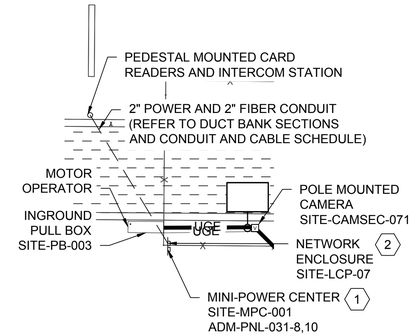
PROJECT NO. 81000927 SHEET OF 560

Attachment 5

Utility Plans

9400 Ward Parkway | Kansas City, MO 64114 | burnsmcd.com





ENLARGED GATE AREA 1 / E114

0 4' 8' 16'

SCALE IN FEET

GENERAL NOTES:

1. REFER TO SHEET E001 FOR ELECTRICAL LEGEND.
2. CONTRACTOR SHALL INCLUDE ALL EVERGY ELECTRIC UTILITY COSTS TO PROJECT IN BID. EVERGY CONTACT PERSON:

   JACOB LEDGER
   EVERGY STAFF ENGINEER DISTRIBUTION DESIGN
   NORTHLAND SERVICE CENTER 8325 N PLATTE PURCHASE DR. KANSAS CITY, MO 64118

   EMAIL: JACOB.LEDGER@EVERGY.COM MOBILE: (816)652-1655
   ESS (ELECTRIC SERVICE STANDARDS) @ SS.EVERGY.COM
3. REFER TO SITE POWER PLANS FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. PROVIDE 2-#4H, 1-#4N, 1-#4G IN 2" ON-CONCRETE ENCASED BELOW GRADE FROM ADMIN BUILDING TO ENTRANCE POWER CENTER. REFERENCE DETAIL ON SHEET E012.
2. INSTALL VIDEO INTERCOM STATION AND CARD READERS IN DUAL LEVEL PEDESTAL AS REQUIRED. PROVIDE THE NECESSARY DEVICE OMTERCONNECTIONS BETWEEN THE GATE PEDESTAL, THE NETWORK ENCLOSURE SITE-LCP-071, AND THE GATE MOTOR OPERATOR. REFER TO THE CONDUIT AND CABLE SCHEDULE, SECURITY SYSTEM RISER DIAGRAMS, AND GATE PEDESTAL MOUNTED CARD READER AND INTERCOM DETAIL ON DRAWING E017 FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL SITE POWER PLAN SHEET 2

NORTH

0 50' 100'

SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

KANSAS CITY MISSOURI

City Plan Commission
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KCWATER SERVICES

CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163
ELECTRICAL SITE POWER PLAN
SHEET 1

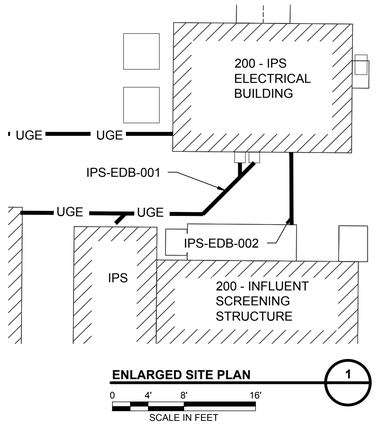
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R. LARKEY	C.BREWSTER	9/12/25			

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				E114

PROJECT NO. 81000927 SHEET OF

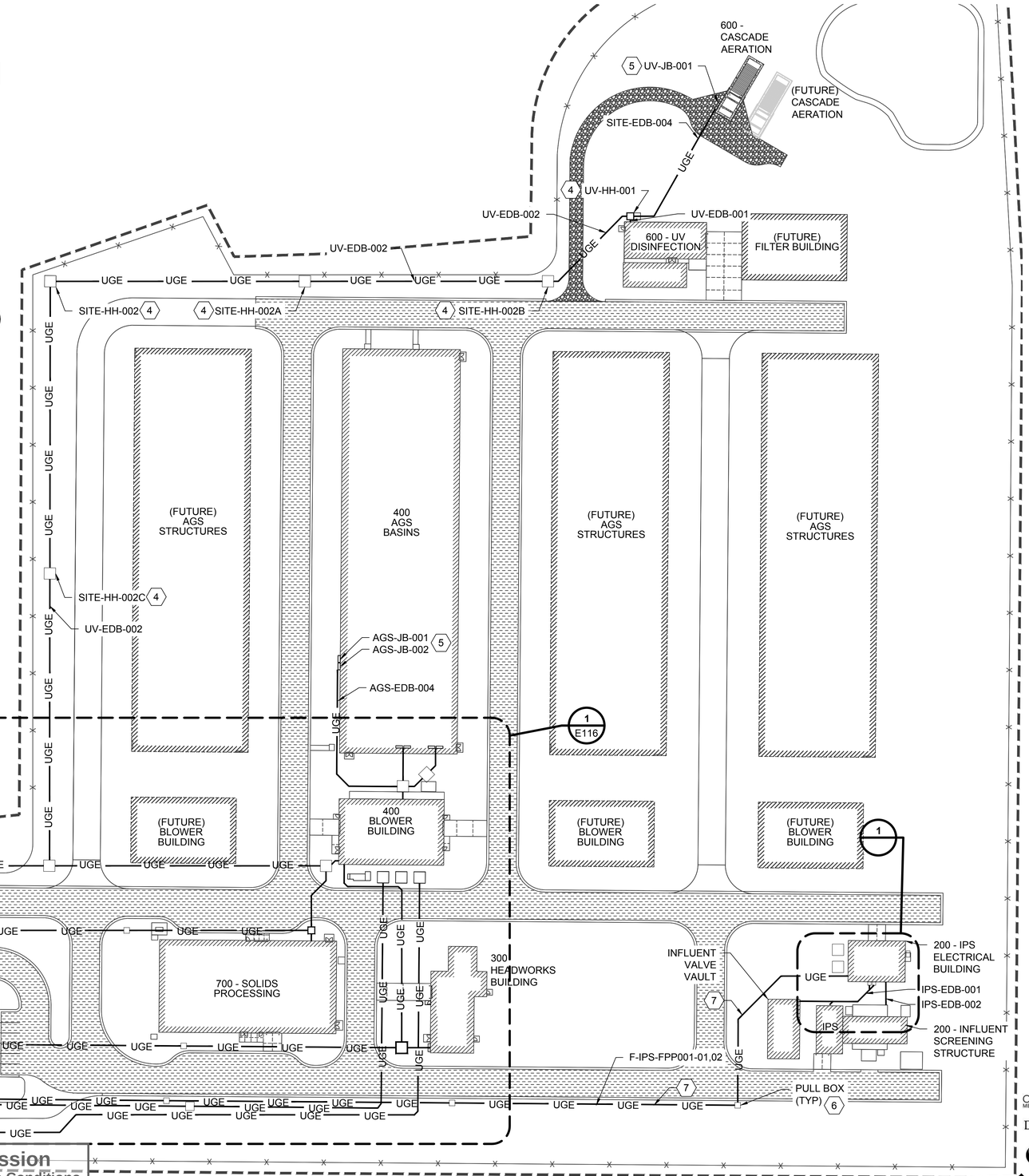
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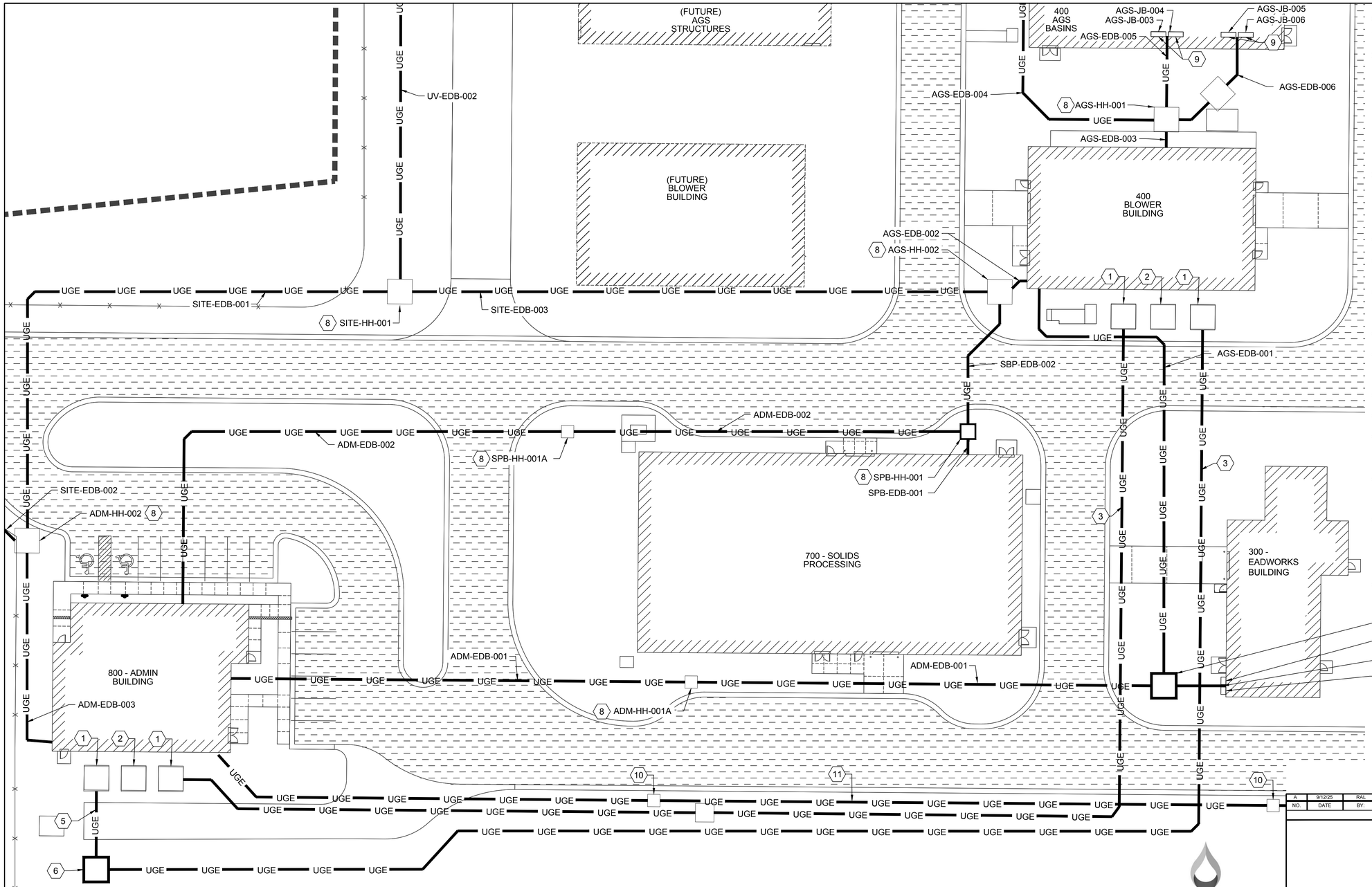


ENLARGED SITE PLAN 1

0 4' 8' 16'

SCALE IN FEET


600 -
CASCADE
AERATION
5 UV-JB-001
(FUTURE)
CASCADE
AERATION
SITE-EDB-004
UGE
4 UV-HH-001
UV-EDB-002
UV-EDB-001
UGE
600 - UV
DISINFECTION
(FUTURE)
FILTER BUILDING
UV-EDB-002
UGE UGE UGE UGE UGE UGE UGE
SITE-HH-002 4
4 SITE-HH-002A
4 SITE-HH-002B
UGE
UGE
UGE
UGE
UGE
(FUTURE)
AGS
STRUCTURES
400
AGS
BASINS
(FUTURE)
AGS
STRUCTURES
(FUTURE)
AGS
STRUCTURES
SITE-HH-002C 4
UV-EDB-002
AGS-JB-001 5
AGS-JB-002
AGS-EDB-004
UGE
1
E116
1
E114
(FUTURE)
BLOWER
BUILDING
400
BLOWER
BUILDING
(FUTURE)
BLOWER
BUILDING
(FUTURE)
BLOWER
BUILDING
1
MATCHLINE SHEET E114
UGE UGE UGE UGE UGE UGE
UGE
UGE
SITE-EDB-002
UGE
UGE
UGE UGE
700 - SOLIDS
PROCESSING
UGE
UGE
UGE
300
HEADWORKS
BUILDING
INFLUENT
VALVE
VAULT
7
UGE
200 - IPS
ELECTRICAL
BUILDING
IPS-EDB-001
IPS-EDB-002
IPS
200 - INFLUENT
SCREENING
STRUCTURE
800 - ADMIN
BUILDING
UGE UGE UGE UGE UGE UGE
F-IPS-FPP001-01,02
UGE
7
PULL BOX
(TYP) 6
UGE UGE UGE UGE UGE UGE UGE



GENERAL NOTES:

1. REFER TO SHEET E001 FOR ELECTRICAL LEGEND.
2. CONTRACTOR SHALL INCLUDE ALL EVERGY ELECTRIC UTILITY COSTS TO PROJECT IN BID. EVERGY CONTACT PERSON:

   JACOB LEDGER
   EVERGY STAFF ENGINEER DISTRIBUTION DESIGN
   NORTHLAND SERVICE CENTER 8325 N PLATTE PURCHASE DR.
   KANSAS CITY, MO 64118

   EMAIL: JACOB.LEDGER@EVERGY.COM MOBILE: (816)652-1655

   ESS (ELECTRIC SERVICE STANDARDS) @ SS.EVERGY.COM
3. REFER TO CONCRETE DUCTBANK SECTIONS SHEETS E131 THROUGH E135.

KEYED NOTES:

1. EVERGY PAD MOUNT TRANSFORMER PROPOSED LOCATION.
2. PORTABLE GENERATOR CONNECTION TAP BOX PROPOSED LOCATION.
3. TWO 4-INCH PRIMARY CONDUITS IN CONCRETE DUCTBANK PER EVERGY STANDARDS. PRIMARY CIRCUIT CONDUCTORS FURNISHED AND INSTALLED BY EVERGY.
4. NOT USED
5. TWO 4-INCH PRIMARY CONDUITS NON-CONCRETE ENCASED BELOW GRADE PER EVERGY STANDARDS. PRIMARY CIRCUIT CONDUCTORS FURNISHED AND INSTALLED BY EVERGY.
6. PROVIDE EVERGY APPROVED SECTIONALIZER.
7. NOT USED
8. PROVIDE HANDHOLE SIZED AS REQUIRED. SEE HANDHOLE MINIMUM INTERIOR DIMENSIONS, DETAIL E, SHEET E131 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. PROPOSED LOCATIONS FOR JUNCTION BOXES FOR UNDERGROUND DUCTBANKS FOR PROCESS CONTROL CIRCUITS. REFER TO PROCESS SHEETS.
10. PROVIDE IN-GROUND PULL BOXES FOR F-IPS-FPP001-01,02 AS SPECIFIED IN SECTION 26 05 33. QUANTITY AND LOCATIONS OF PULL BOXES SHALL BE AS INDICATED AT MINIMUM. PROVIDE ADDITIONAL PULL-BOXES AS RECOMMENDED BY FIBER CABLE MANUFACTURER.
11. TWO 2-INCH CONDUITS IN CONCRETE ENCASED DUCTBANK PER SPECIFICATIONS WITH PULLWIRE FOR IPS FIBER.

ENLARGED PLAN 1 / E115

0 20' 40'
SCALE IN FEET

NORTH

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163
ELECTRICAL SITE POWER PLAN
SHEET 3

FOR WSD USE:

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R. LARKEY	C.BREWSTER	9/12/25			

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				E116

PROJECT NO. 81000927 SHEET OF

KCWATER SERVICES
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL + STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

PRELIMINARY - NOT FOR CONSTRUCTION

KANSAS CITY MISSOURI
City Plan Commission
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Sara Copeland, FAICP
Secretary of the City Plan Commission

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STORMWATER SCHEDULE				
NO	DESCRIPTION	NORTHING	EASTING	INVERT ELEVATION
1	CURB INLET	1158130.31	2740313.61	872.39
2	CURB INLET	1158162.49	2740313.78	872.23
3	CURB INLET	1158160.97	2740502.58	868.11
4	CURB INLET	1158159.63	2740683.74	866.21
5	CURB INLET	1158192.93	2740745.04	864.12
6	CURB INLET	1158402.22	2740746.72	862.89
7	CURB INLET	1158615.23	2740748.44	860.90
8	CURB INLET	1158676.29	2740749.87	860.59
9	CURB INLET	1158674.82	2740933.03	856.23
10	CURB INLET	1158672.64	2741204.95	850.00
11	5" MH	1158671.44	2741291.51	838.50
12	CURB INLET	1157973.10	2740560.13	864.90
13	CURB INLET	1157970.88	2740836.94	859.96
14	CURB INLET	1157968.42	2741143.33	852.64
15	CURB INLET	1157967.28	2741285.91	851.00
16	CURB INLET	1158155.07	2741287.44	855.50
17	5' MH	1158417.73	2741289.47	839.75
18	CURB INLET	1158411.61	2740929.81	860.09
19	CURB INLET	1158411.84	2740897.63	860.25
20	CURB INLET	1158156.58	2741049.58	859.35

STORMWATER SCHEDULE				
NO	DESCRIPTION	NORTHING	EASTING	INVERT ELEVATION
21	CURB INLET	1158124.39	2741049.41	859.51
22	CURB INLET	1158128.79	2740502.33	868.41
23	CURB INLET	1158402.45	2740714.54	862.43
24	CURB INLET	1158615.47	2740716.26	860.28
25	CURB INLET	1158003.06	2740837.11	872.39
26	CURB INLET	1158000.60	2741143.50	852.80
27	15" FLARED END SECTION	1158231.40	2740067.33	877.00
28	15" FLARED END SECTION	1158295.90	2740127.19	875.00
29	15" FLARED END SECTION	1158807.79	2741292.63	838.00

CASCADE AERATION TOW EL: 848

SERIES 600 UV DISINFECTION STRUCTURE FFE: 858

FUTURE CASCADE AERATION

DRY DETENTION BASIN
0.5 ACRES
BOTTOM ELEV = 835.00
WQV = 836.00
100 YEAR = 837.00

STORM SEWER END SECTION WITH RIP RAP (TYP) (SEE DETAIL ON SHEET C134)

PROPOSED FENCE

CONSTRUCTION LIMITS

TRAPEZOIDAL DITCH

SERIES 400 AGS STRUCTURES FFE: 870

SERIES 400 FUTURE AGS STRUCTURES (BY OTHERS)

DETENTION POND

SERIES 400 FUTURE AGS STRUCTURES (BY OTHERS)

STORM LINE 14

STORM LINE 5

EQUIPMENT PAD LOCATIONS REFERENCE ELECTRICAL (SEE SHEET E017)

CONSTRUCTION LIMITS

INFLUENT PUMP STATION ELECTRIAL FFE: 859

STORM SEWER END SECTION WITH RIP RAP (TYP) (SEE DETAIL ON SHEET C134)

SERIES 800 ADMINISTRATION BUILDING FFE: 875.50

EQUIPMENT PAD LOCATIONS REFERENCE ELECTRICAL (SEE SHEET E017)

CONSTRUCTION LIMITS

SERIES 700 SOLIDS HANDLING FFE: 872

PROPOSED FENCE

SERIES 300 HEADWORKS BUILDING FFE: 871

INFLUENT VALVE VAULT FFE: 856

INFLUENT PUMP STATION FFE: 856

INFLUENT SCREENING STATION FFE: 856

SERIES 400 BLOWER BUILDING FFE: 871

SERIES 400 FUTURE BLOWER BUILDING (BY OTHERS)

SERIES 400 FUTURE BLOWER BUILDING (BY OTHERS)

MAIN ROAD-1 · MAIN ROAD-2 · MAIN ROAD-3 · MAIN ROAD-4 · MAIN ROAD-5 · MAIN ROAD-6 · MAIN ROAD-7 · ACCESS ROAD-1 · FUTURE MAIN ROAD

STORM LINE 1 · STORM LINE 2 · STORM LINE 3 · STORM LINE 4 · STORM LINE 5 · STORM LINE 6 · STORM LINE 7 · STORM LINE 8 · STORM LINE 9 · STORM LINE 10 · STORM LINE 11 · STORM LINE 12 · STORM LINE 13

1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10

0 50' 100'
SCALE IN FEET

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PLAN

FOR WSD USE:

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO				DATE COMPLETED	
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.	
1698				C127	
PROJECT NO. 81000927			SHEET 27 OF 40		

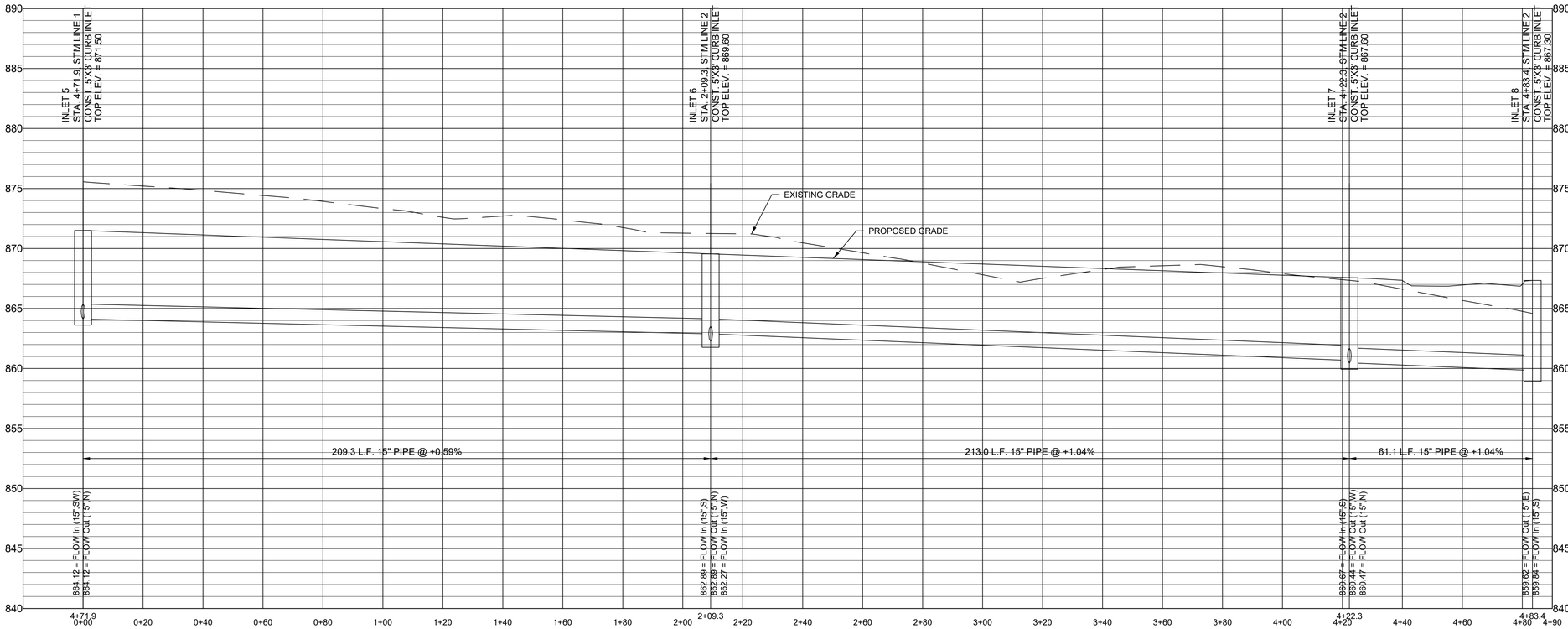
KANSAS CITY MISSOURI

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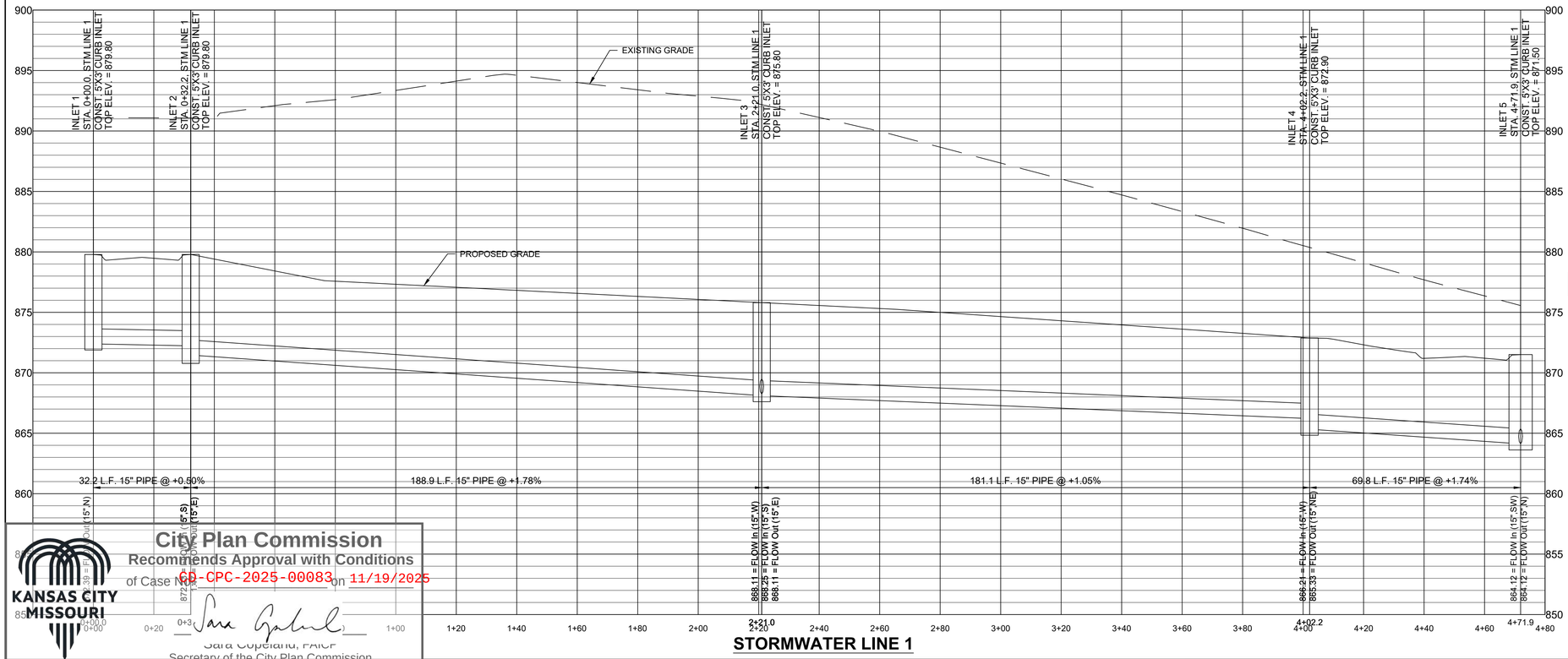
Sara Copeland, FAICP
Secretary of the City Plan Commission

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STORM PROFILE 2



STORMWATER LINE 2



STORMWATER LINE 1

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL • STRUCTURAL ENGINEERING

WELLNER architects

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KANSAS CITY, MO 64114
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LICENSEE NO. 000165

PRELIMINARY - NOT FOR CONSTRUCTION

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

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14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 1 AND 2

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C128

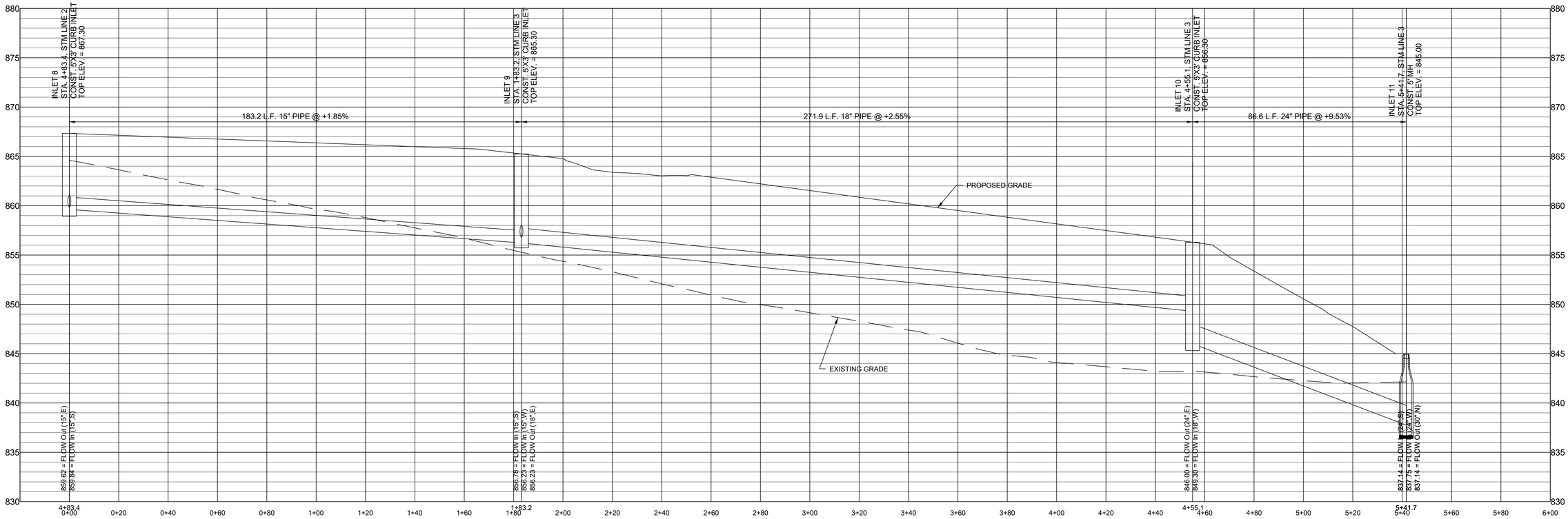
PROJECT NO. 81000927 SHEET 28 OF 40

KANSAS CITY MISSOURI

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Secretary of the City Plan Commission

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STORM PROFILE 3



STORMWATER LINE 3

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	_	ODJ	JPG	60% DESIGN REVIEW PACKAGE-NOT FOR CONSTRUCTION

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 3

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

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BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C129

PROJECT NO. 81000927

SHEET 29 OF 40

KCWATER SERVICES

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

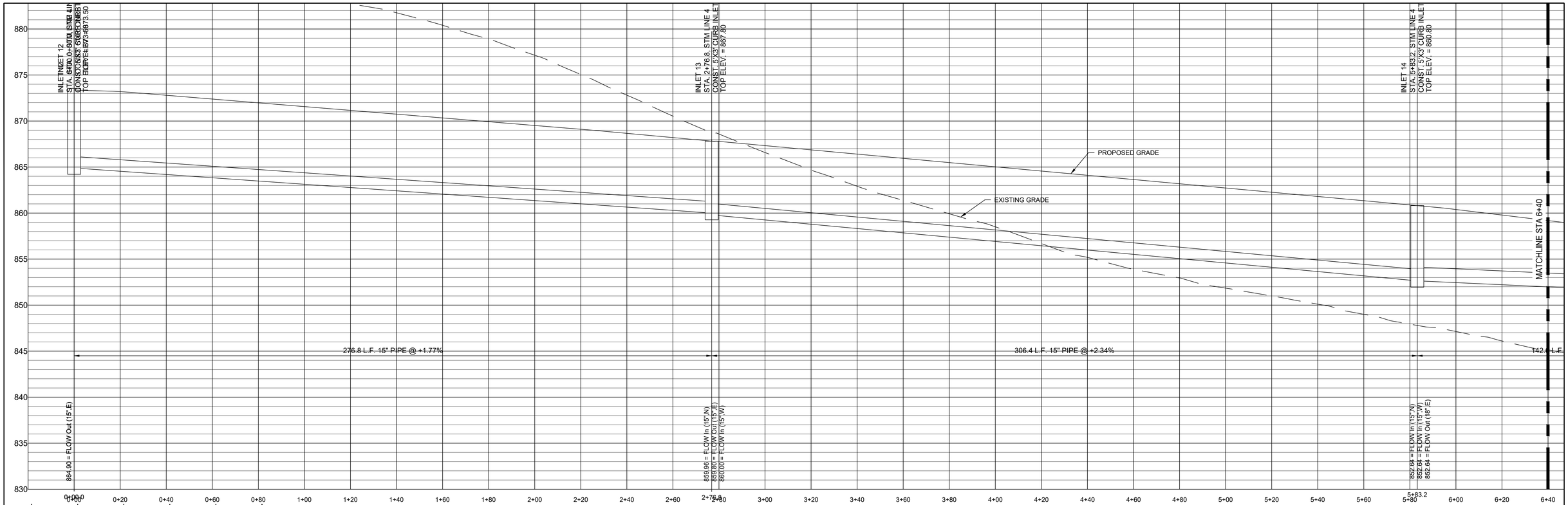
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816-333-9400
LICENSEE NO. 000165

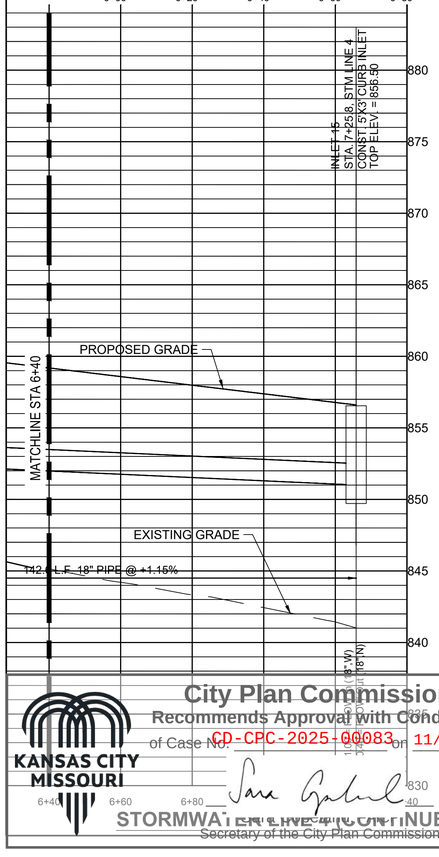
PRELIMINARY - NOT FOR CONSTRUCTION

KANSAS CITY MISSOURI

City Plan Commission
Recommends Approval with Conditions
of Case No. CD-CPC-2025-00083 on 11/19/2025
Sara Copeland
Sara Copeland, FAICP
Secretary of the City Plan Commission

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G:\26\0004 - TODD CREEK CIVIL\07-REDESIGN\00-CIVIL\09 WORKING\SHEETS\C128-133 STORMWATER PROFILE.DWG





NOTE:

1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

City Plan Commission
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KANSAS CITY MISSOURI

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 4

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

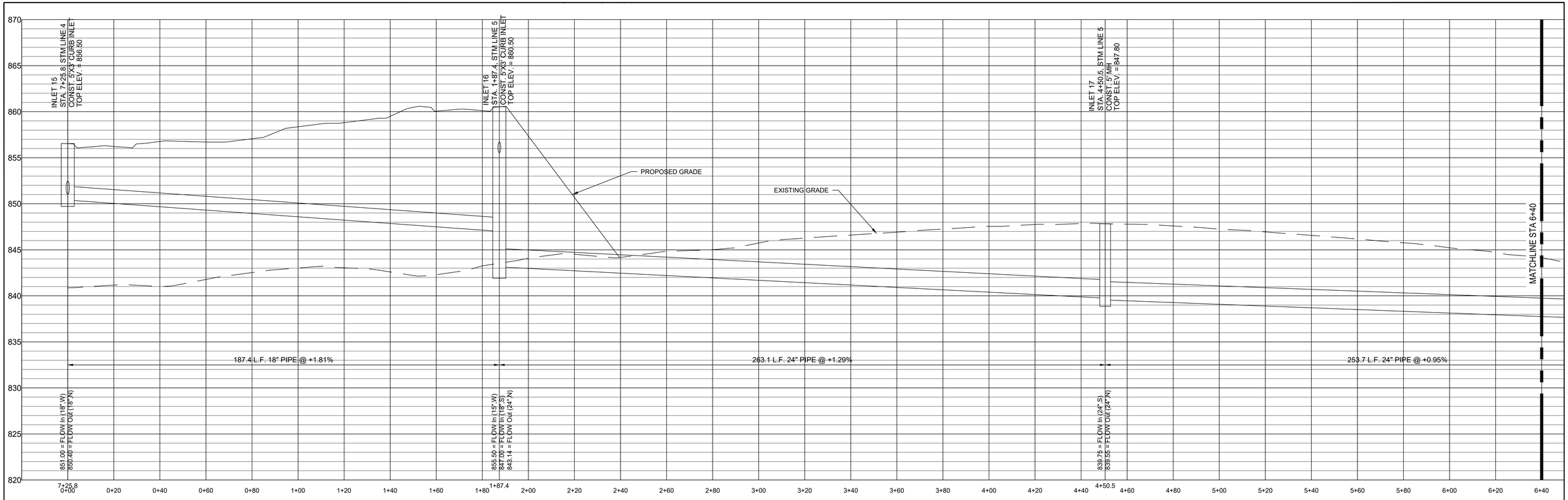
CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C130

PROJECT NO. 81000927 SHEET 30 OF 40

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KCWATER SERVICES
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL + STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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STORMWATER LINE 5

STORMWATER LINE 5 (CONTINUED)

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

City Plan Commission
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Sara Gabriel
Secretary of the City Plan Commission

KANSAS CITY MISSOURI

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WELLNER architects
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9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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STORMWATER PROFILES 5

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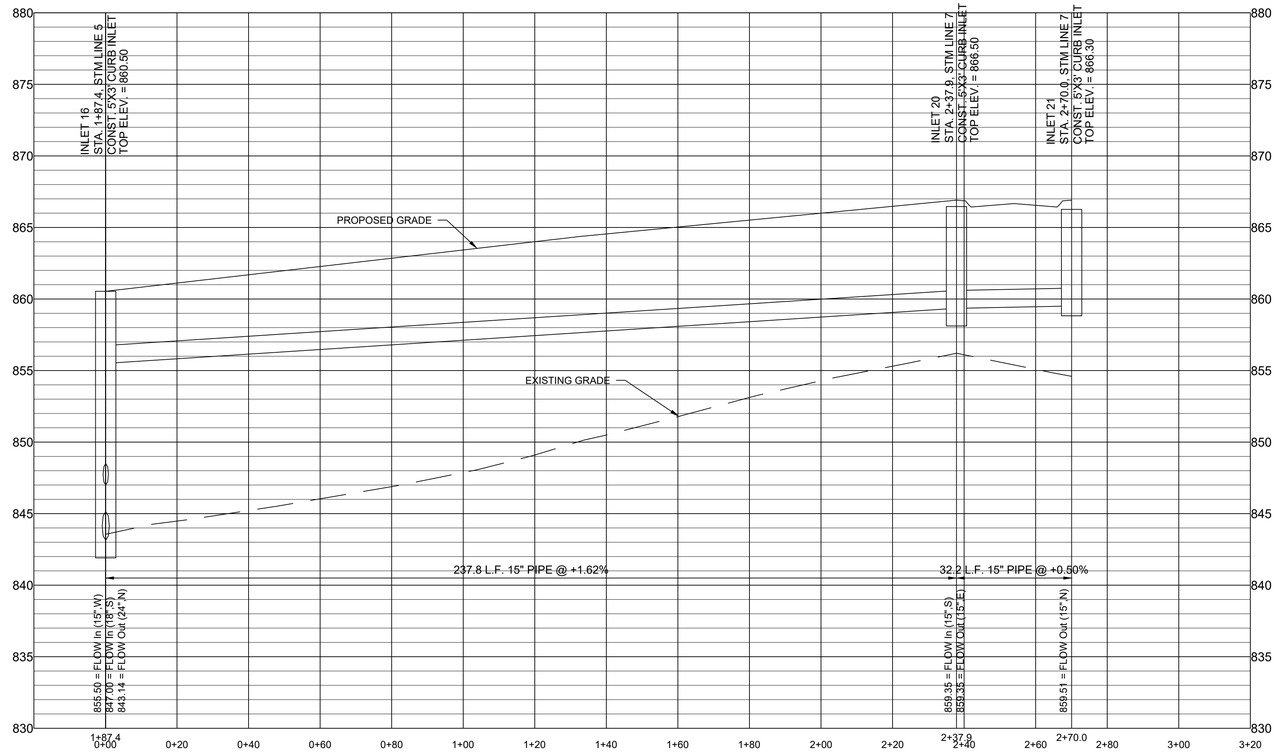
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CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C131

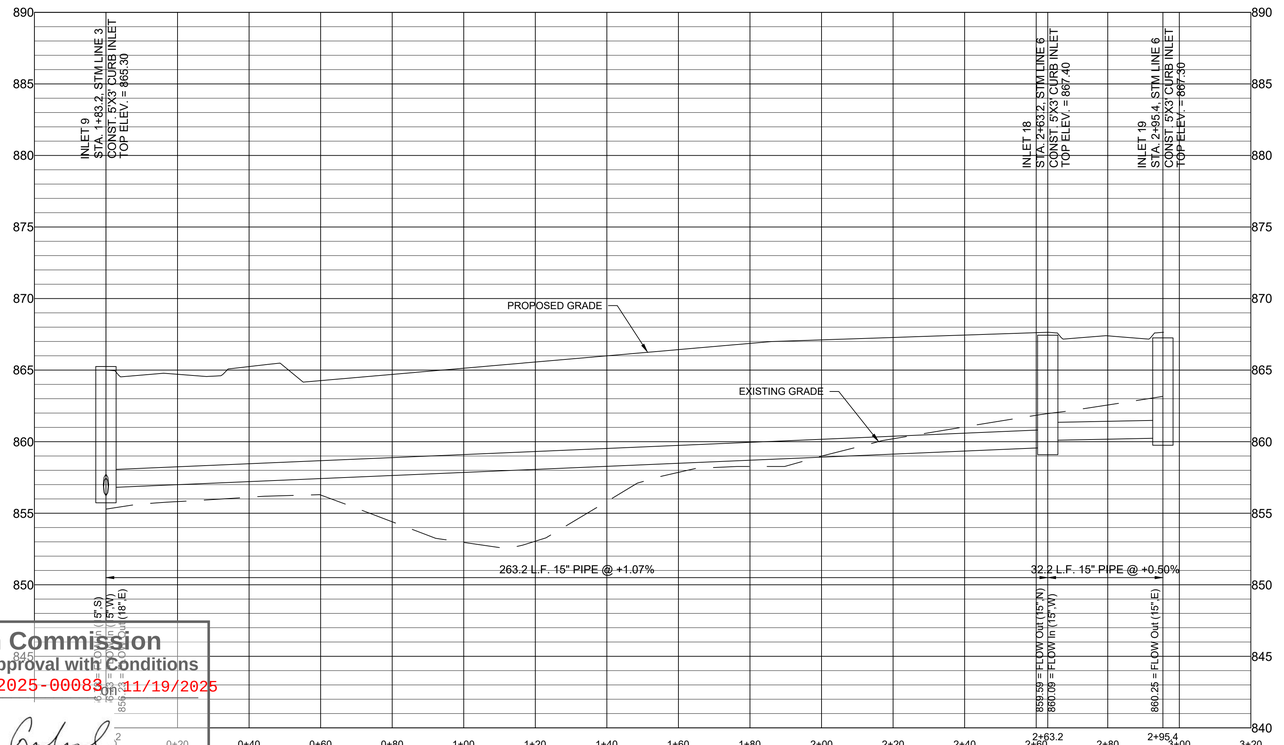
PROJECT NO. 81000927

SHEET 31 OF 40

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STORMWATER LINE 7



STORMWATER LINE 6

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

0 4' 8'
SCALE IN FEET
VERTICAL SCALE IN FEET

0 10' 20' 40'
SCALE IN FEET
HORIZONTAL SCALE IN FEET

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 6 AND 7

FOR WSD USE:

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ODJ	JPG	08/27/2025	34W	53N 52N	36 01

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BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C132

PROJECT NO. 81000927 SHEET 32 OF 40

KCWATER SERVICES

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

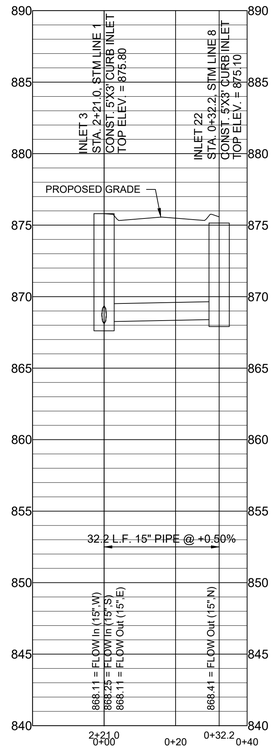
WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

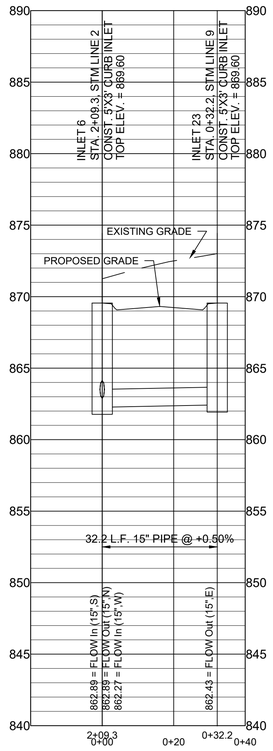
KANSAS CITY MISSOURI

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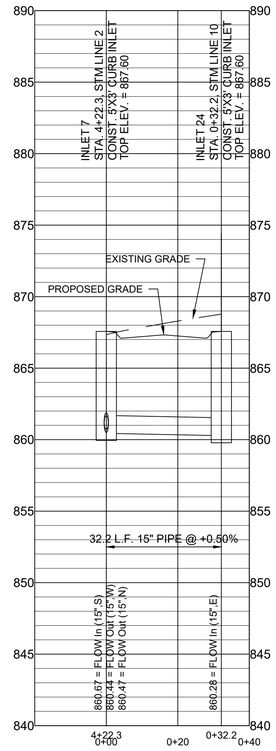
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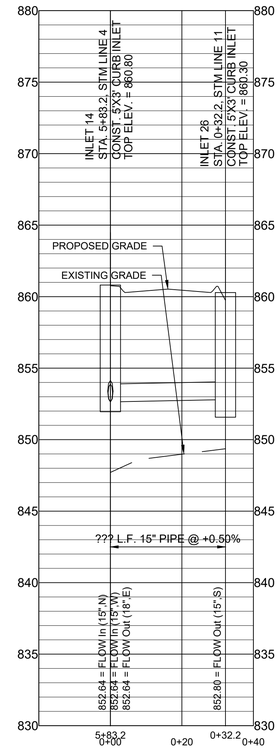
STORMWATER LINE 8



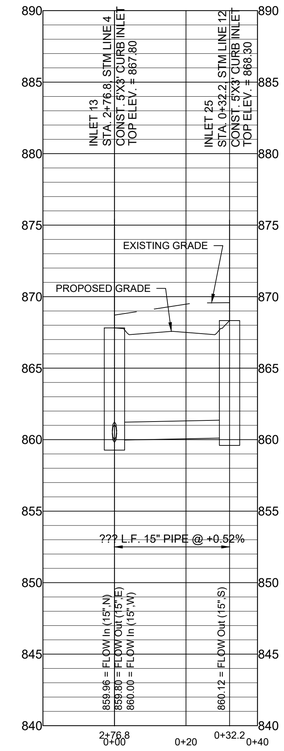
STORMWATER LINE 9



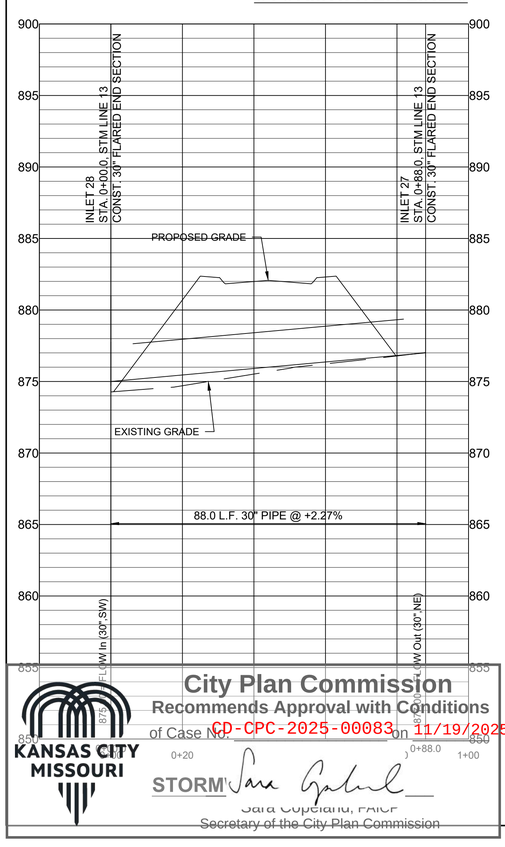
STORMWATER LINE 10



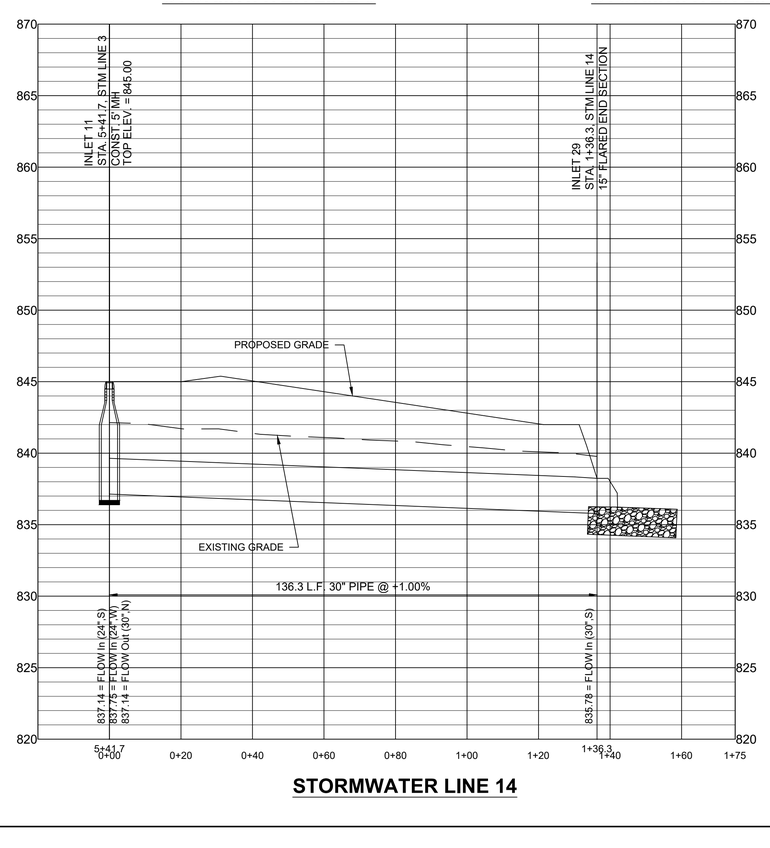
STORMWATER LINE 11



STORMWATER LINE 12



STORMWATER LINE 13



STORMWATER LINE 14

NOTE:
1. ALL STORM SEWER PIPE SHALL BE TYPE III RCP.

SCALE IN FEET
VERTICAL SCALE IN FEET
0 4' 8'
SCALE IN FEET
HORIZONTAL SCALE IN FEET
0 10' 20' 40'

City Plan Commission
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PRELIMINARY - NOT FOR CONSTRUCTION

KCWATER SERVICES
CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL • STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STORMWATER PROFILES 8-12

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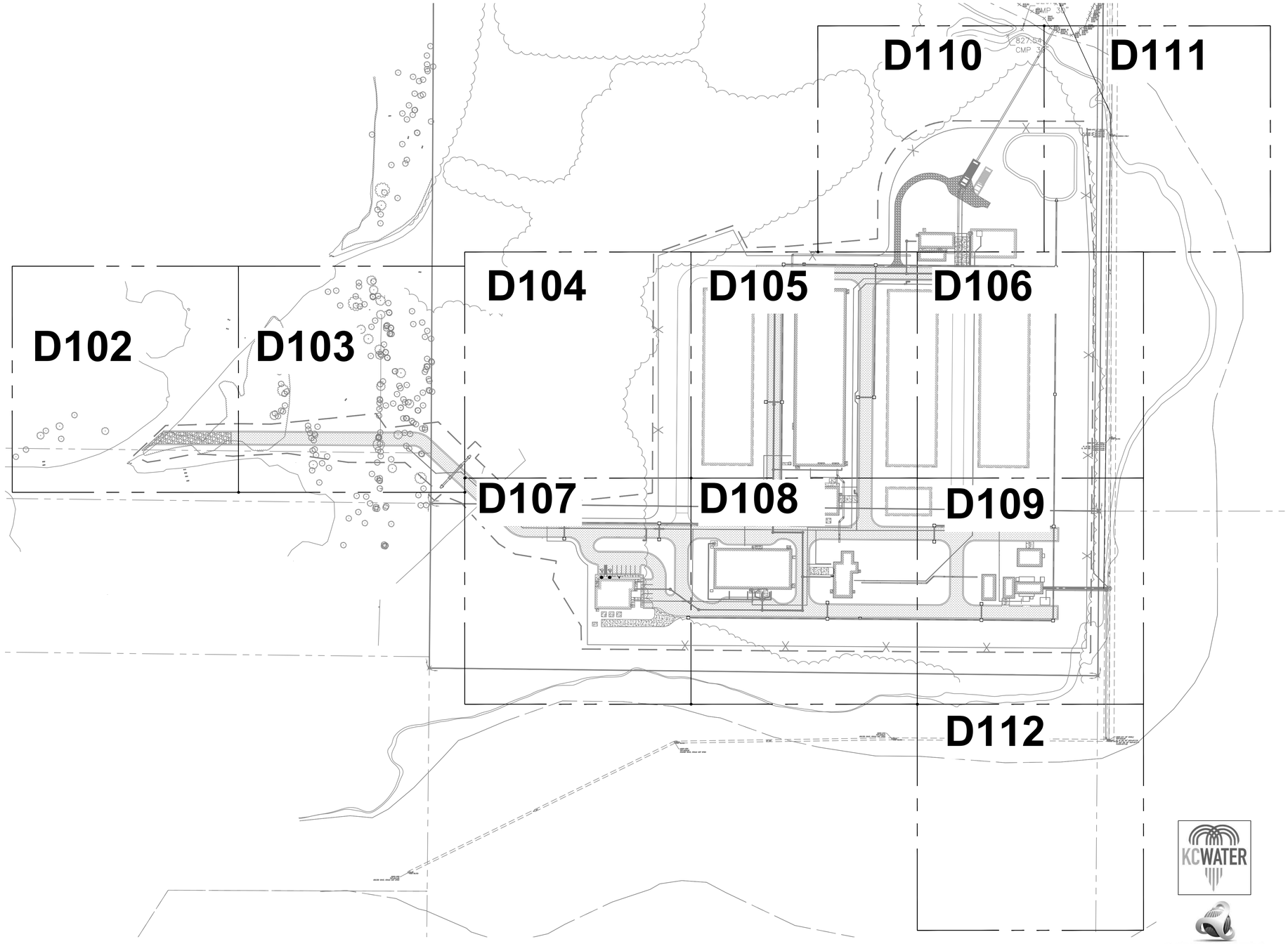
CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C133

PROJECT NO. 81000927

SHEET 33 OF 40

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OVERALL SANITARY SEWER PLAN

0 50' 100'
SCALE IN FEET

NORTH

YARD PIPING NOTES:

1. ALL EXISTING UTILITY AND SUBSURFACE PIPING LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL EXPOSE ALL UTILITIES TO VERIFY LOCATION AND DEPTHS PRIOR TO CONSTRUCTION. LOCATIONS AND ELEVATIONS SHALL BE RECORDED ON CONSTRUCTION RECORD DRAWINGS.
2. THE CENTERLINE COORDINATES SHOWN FOR THE YARD PROCESS PIPING LAYOUT DESIGN ALIGNMENTS ARE FOR GENERAL HORIZONTAL LAYOUT LOCATION AND ORIENTATION, THE ACTUAL LOCATION OF THE EXISTING FEATURE MAY VARY FROM FIELD LOCATION. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO STAKING YARD PIPING ALIGNMENTS.
3. CONTRACTOR SHALL PROVIDE PROTECTION TO PREVENT UNDERMINING OR DAMAGING THE STRUCTURAL INTEGRITY OF ALL EXISTING STRUCTURES AND UTILITIES WHEN INSTALLING BELOW GRADE PIPING.
4. MAINTAIN THE MAXIMUM SEPARATION DISTANCE POSSIBLE BETWEEN WATER MAINS, SEWER LINES, OTHER UTILITY LINES, AND IN COMPLIANCE WITH, MDNR STANDARDS. MINIMUM SEPARATION FROM POTABLE WATER LINES SHALL BE 10-FOOT HORIZONTAL AND 2-FOOT VERTICAL UNLESS SEWER LINE IS ENCASED OR UNLESS OTHERWISE NOTED. SOME MINOR DEVIATION OF THE PIPING DESIGN LAYOUT ALIGNMENTS MAY BE ALLOWED DEPENDING ON ACTUAL LOCATION OF EXISTING WATER, SEWER, AND UTILITY LINES.
5. PIPE BEDDING MATERIAL FOR EXTERIOR PIPE SHALL BE CLEAN AND GRADED CRUSHED ROCK CONFORMING TO KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT STANDARD SPECIFICATION SECTION 02250-TRENCHING. PIPE EMBEDMENT, AND BACKFILL.
6. CONTRACTOR SHALL TRANSITION FROM PROCESS PIPING TO YARD PIPING MATERIAL (SEE YARD PIPE MATERIALS TABLE, IN APPLICABLE SPECIFICATION SECTION) AT FIRST JOINT OUTSIDE OF STRUCTURE. CONCRETE ENCASE BENEATH STRUCTURES AND A MINIMUM OF 4 FEET BEYOND EDGE OF FOOTING.
7. ALL PROPOSED PIPING SHALL BE INSTALLED AT A MINIMUM DEPTH OF 42-INCHES.
8. ALL LOW PRESSURE PIPING SHALL BE RESTRAINED AT ALL BENDS AND UP TO FIRST JOINT.
9. ACCEPTANCE TESTS FOR PRESSURE PIPE SHALL INCLUDE HYDROSTATIC PRESSURE AND LEAKAGE TESTS CONFORMING TO SPECIFICATION SECTION 33 31 50-PIPE INSTALLATION.
10. ALL FITTINGS SHALL CONFORM TO APPLICABLE SPECIFICATION SECTIONS, AND BE RESTRAINED AT A MINIMUM OF ONE JOINT OUTSIDE OF SLABS/STRUCTURES AND BENEATH SLABS.
11. HORIZONTAL AND VERTICAL BEND SHALL BE RESTRAINED AT THE MINIMUM LENGTHS SHOWN IN YARD PIPE MATERIALS TABLE.

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

OVERALL YARD PIPING PLAN

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BURNS & MCDONNELL ENGINEERING CO	

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1698				D101

PROJECT NO. 81000927 SHEET OF

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL • STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
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LICENSEE NO. 000165

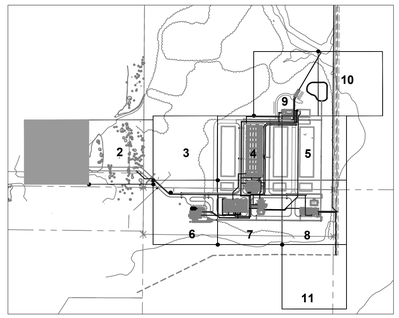
KANSAS CITY MISSOURI

City Plan Commission
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Secretary of the City Plan Commission

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KEY MAP

MATCHLINE - SEE YARD PIPING PLAN AREA 2 - DWG D103

SE 125

NORTH

0 10' 20' 40'
SCALE IN FEET

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TODD CREEK WWTP EXPANSION AND UPGRADE

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YARD PIPING PLAN AREA 1

FOR WSD USE:

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CONTRACTOR	DATE COMPLETED
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CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				D102

PROJECT NO. 81000927 SHEET OF

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MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants
CIVIL / STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
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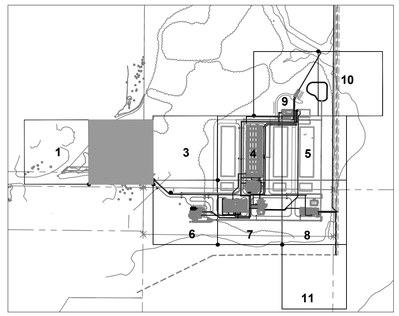
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Secretary of the City Plan Commission

MATCHLINE - SEE YARD PIPING PLAN AREA 1 - DWG D102

MATCHLINE - SEE YARD PIPING PLAN AREA 3 - DWG D104



KEY MAP

FUTURE POTABLE
WATER CONNECTION

0+00

PCT

PCT

1+00
PCT

8" POTABLE WATER - 1
SEE D115 FOR PROFILE

STORMWATER LINE (TYP)
SEE CIVIL DRAWINGS

NORTH

0 10' 20' 40'
SCALE IN FEET

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

YARD PIPING PLAN
AREA 2

FOR WSD USE:

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CONTRACTOR	DATE COMPLETED
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1698				D103

PROJECT NO. 81000927 SHEET OF

9400 WARD PARKWAY
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KANSAS CITY MISSOURI

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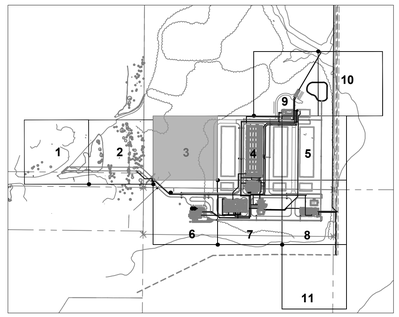
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MATCHLINE - SEE YARD PIPING PLAN AREA 2 - DWG D104

MATCHLINE - SEE YARD PIPING PLAN AREA 4 - DWG D105

MATCHLINE - SEE YARD PIPING PLAN AREA 6 - DWG D107



KEY MAP

NORTH

0 10' 20' 40'

SCALE IN FEET

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KANSAS CITY MISSOURI

KCWATER

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

YARD PIPING PLAN AREA 3

FOR WSD USE:

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CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				D104

PROJECT NO.	SHEET	OF
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MATCHLINE - SEE YARD PIPING PLAN AREA 9 - DWG D110

1+00 2+00 2+79.93

30" EFFLUENT - 1
SEE D113 FOR PROFILE

16" PLANT SEWER - 1
SEE D127 FOR PROFILE

4" PLANT SEWER - 5
SEE D128 FOR PROFILE

SEE SERIES 600
FOR CONTINUATION

MH-10 MH-11

11+00 12+00 13+00 0+00

9+00 15+00

TYPE A HYDRANT
SEE D133 FOR DETAIL

SEE SERIES 400
FOR CONTINUATION

10+00 14+00 8+00

8" POTABLE WATER - 1
SEE D117 FOR PROFILE

16" PLANT SEWER - 1
SEE D126 FOR PROFILE

4" PROCESS WATER - 1
SEE D121 FOR PROFILE

STORMWATER LINE (TYP)
SEE CIVIL DRAWINGS

STORMWATER LINE (TYP)
SEE CIVIL DRAWINGS

SERIES 400
FUTURE AGS BASINS
FG = 870

SERIES 400
AGS BASINS
FG = 870

SERIES 400
FUTURE AGS BASINS
FG = 864

9+00 13+00 7+00

MH-9 8+00

12+00 6+00

2+00 2+49.20 1+40.26

7+00 0+00 0+84.49 1+00 1+54.13 11+00 5+00

4" SLUDGE
SEE D119 FOR PROFILE

2" PLANT SEWER - 4
SEE D128 FOR PROFILE

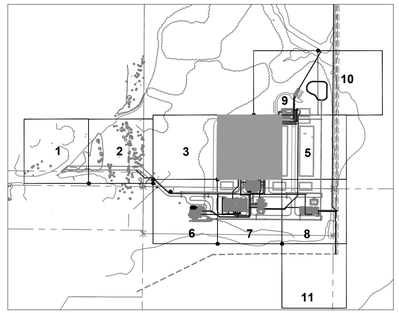
30" AGS INFLUENT
SEE D114 FOR PROFILE

4" POTABLE WATER - 6
SEE D118 FOR PROFILE

MATCHLINE - SEE YARD PIPING PLAN AREA 3 - DWG D104

MATCHLINE - SEE YARD PIPING PLAN AREA 5 - DWG D106

MATCHLINE - SEE YARD PIPING PLAN AREA 7 - DWG D108



KEY MAP

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	DATE	BY:	CHECKED:	DESCRIPTION
REVISION BLOCK				

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

**YARD PIPING PLAN
AREA 4**

FOR WSD USE:

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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CONTRACTOR: BURNS & MCDONNELL ENGINEERING CO			DATE COMPLETED		
CONTRACT NO. 1698	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO. D105	
PROJECT NO. 81000927		SHEET	OF		

KANSAS CITY MISSOURI

City Plan Commission
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of Case No. CD-CPC-2025-00083 on 11/19/2025

Sara Gabriel
Secretary of the City Plan Commission

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MATCHLINE - SEE YARD PIPING PLAN AREA 9 - DWG D110

MATCHLINE - SEE YARD PIPING PLAN AREA 10 - DWG D111

30" EFFLUENT LINE

20" PLANT PLANT SEWER - 1
SEE D127 FOR PROFILE

MH-12

1.5" POTABLE WATER - 7
SEE D118 FOR PROFILE

8" END CAP

SEE SERIES 600
FOR CONTINUATION

4" PROCESS WATER - 1
SEE D122 FOR PROFILE

8" POTABLE WATER - 1
SEE D117 FOR PROFILE

8" PLANT FORCE MAIN - 1
SEE D124 FOR PROFILE

4" PVC HOOVER HEIGHTS
SEWER FORCE MAIN

STORMWATER LINE (TYP)
SEE CIVIL DRAWINGS

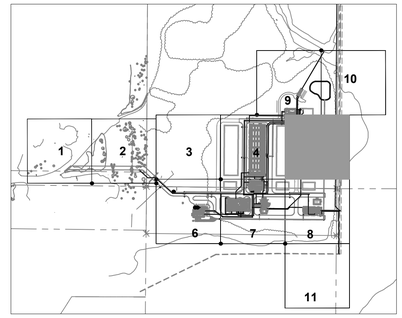
SERIES 400
FUTURE AGS BASINS
FG = 858

N262 (5' CONC.)
TOP=843.09
FL IN (S) 42" RCP=814.79
FL OUT (N) 48" RCP=814.69
FLOOR=814.64

TOP
@843.09'
MHSS BOLTED

MATCHLINE - SEE YARD PIPING PLAN AREA 4 - DWG D105

MATCHLINE - SEE YARD PIPING PLAN AREA 8 - DWG D109



KEY MAP

NORTH

0 10' 20' 40'
SCALE IN FEET

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

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**YARD PIPING PLAN
AREA 5**

FOR WSD USE:

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CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				D106

PROJECT NO. 81000927 SHEET OF

KCWATER

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DuBois Consultants
CIVIL • STRUCTURAL • ENVIRONMENTAL

WELLNER architects

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MATCHLINE - SEE YARD PIPING PLAN AREA 3 - DWG D104

8" POTABLE WATER - 1
SEE D115 FOR PROFILE

STORMWATER LINE (TYP)
SEE CIVIL DRAWINGS

POT

2+00

3+00

4+00

5+00

6+00

MAIN ROAD 2

8" POTABLE WATER - 1
SEE D116 FOR PROFILE

TYPE A HYDRANT
SEE D133 FOR DETAIL

ENCASEMENT,
10' MIN EACH SIDE

SERIES 800
ADMINISTRATION
BUILDING
FFE = 877

4" PLANT SEWER - 1
SEE D125 FOR PROFILE

0+00

SAN

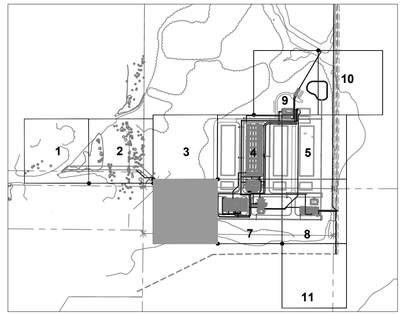
MH-1A

1+00

2" POTABLE WATER - 3
SEE D118 FOR PROFILE

ENCASEMENT,
10' MIN EACH SIDE

MATCHLINE - SEE YARD PIPING PLAN AREA 7 - DWG D108



KEY MAP

NORTH

0 10' 20' 40'
SCALE IN FEET

KCWATER

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MECHANICAL & ELECTRICAL ENGINEERING

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

YARD PIPING PLAN AREA 6

FOR WSD USE:

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CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				D107

PROJECT NO.	SHEET	OF
81000927		

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MATCHLINE - SEE YARD PIPING PLAN AREA 4 - DWG D105

4" SLUDGE LINE
SEE D130 FOR PROFILE

4" PLANT SEWER

16" PLANT SEWER - 1
SEE D126 FOR PROFILE

FUTURE BLOWER BUILDING
FFE = 871

SERIES 400
BLOWER BUILDING
FFE = 871

FUTURE BLOWER BUILDING
FFE = 865

4" POTABLE WATER - 6
SEE D118 FOR PROFILE

4" POTABLE WATER - 5
SEE D118 FOR PROFILE

TYPE A HYDRANT
SEE D133 FOR DETAIL

8" POTABLE WATER - 1
SEE D117 FOR PROFILE

4" PROCESS WATER - 1
SEE D120 FOR PROFILE

8" POTABLE WATER - 8
SEE D119 FOR PROFILE

8" POTABLE WATER - 1
SEE D116 FOR PROFILE

4" POTABLE WATER - 2
SEE D118 FOR PROFILE

MH-7

MH-5

MAIN ROAD 2

4" POTABLE WATER - 4
SEE D118 FOR PROFILE

30" AGS INFLUENT
SEE D114 FOR PROFILE

SEE SERIES 300
FOR CONTINUATION

4" PROCESS WATER - 2
SEE D122 FOR PROFILE

SERIES 700
SOLIDS
PROCESSING
FFE = 872

SERIES 300
HEADWORKS
BUILDING
FFE = 871

SEE SERIES 300
FOR CONTINUATION

8" PLANT FORCE MAIN - 1
SEE D123 FOR PROFILE

MH-5A

4" PLANT SEWER - 2
SEE D128 FOR PROFILE

20" SCREENED INFLUENT
SEE D114 FOR PROFILE

8" PLANT SEWER - 3
SEE D128 FOR PROFILE

MH-A

MH-1

MH-3

MH-4

4" PLANT SEWER - 8
SEE D129 FOR PROFILE

4" PLANT SEWER - 7
SEE D129 FOR PROFILE

4" PLANT SEWER - 6
SEE D129 FOR PROFILE

6" PLANT SEWER - 1
SEE D125 FOR PROFILE

4" POTABLE WATER - 2
SEE D118 FOR PROFILE

8" PLANT SEWER - 9
SEE D129 FOR PROFILE

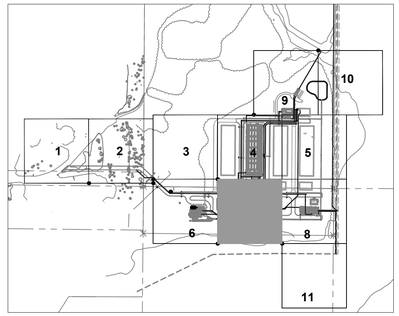
16" PLANT SEWER - 1
SEE D125 FOR PROFILE

4" PROCESS WATER - 1
SEE D120 FOR PROFILE

STORMWATER LINE (TYP)
SEE CIVIL DRAWINGS

MATCHLINE - SEE YARD PIPING PLAN AREA 6 - DWG D107

MATCHLINE - SEE YARD PIPING PLAN AREA 8 - DWG D109



KEY MAP

NORTH

0 10' 20' 40'
SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION

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				REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

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**YARD PIPING PLAN
AREA 7**

FOR WSD USE:

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CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				D108

PROJECT NO. 81000927 — SHEET OF

KCWATER

CUSTOM ENGINEERING
MECHANICAL & ELECTRICAL ENGINEERING

DuBois Consultants
CIVIL & STRUCTURAL ENGINEERING

WELLNER architects

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9400 WARD PARKWAY
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Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

KANSAS CITY MISSOURI

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MATCHLINE - SEE YARD PIPING PLAN AREA 5 - DWG D106

8" PLANT FORCE MAIN - 1
SEE D123 FOR PROFILE

FUTURE BLOWER BUILDING
FFE = 856

8" POTABLE WATER - 8
SEE D119 FOR PROFILE

STORMWATER LINE (TYP)
SEE CIVIL DRAWINGS

4" PVC HOOVER HEIGHTS
SEWER FORCE MAIN

2" POTABLE WATER - 9
SEE D119 FOR PROFILE

SERIES 200
IPS ELECTRICAL
BUILDING
FFE = 859

20" SCREENED INFLUENT
SEE D114 FOR PROFILE

SERIES 200
IPS VALVE
VAULT
FFE =854

SERIES 200
IPS
FFE = 856

COURSE
SCREENING
BUILDING
FFE = 856

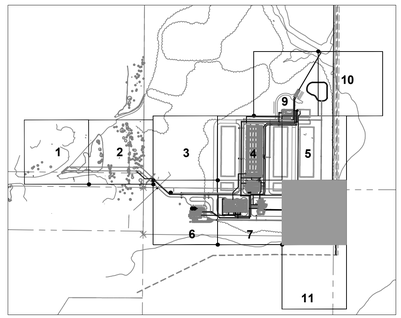
EXISTING 48" RCP
SEWER

48" INFLUENT
SEE D114 FOR PROFILE

MH - 15
INSTALL
84" DIA MANHOLE

2" CHEMICAL FEED
SEE D131 FOR PROFILE

INSTALL CHEMICAL PULL BOX
SEE D132 FOR DETAILS



KEY MAP

MATCHLINE - SEE YARD PIPING PLAN AREA 7 - DWG D108

MATCHLINE - SEE YARD PIPING PLAN AREA 11 - DWG D112

NORTH

0 10' 20' 40'
SCALE IN FEET

City Plan Commission
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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

YARD PIPING PLAN AREA 8

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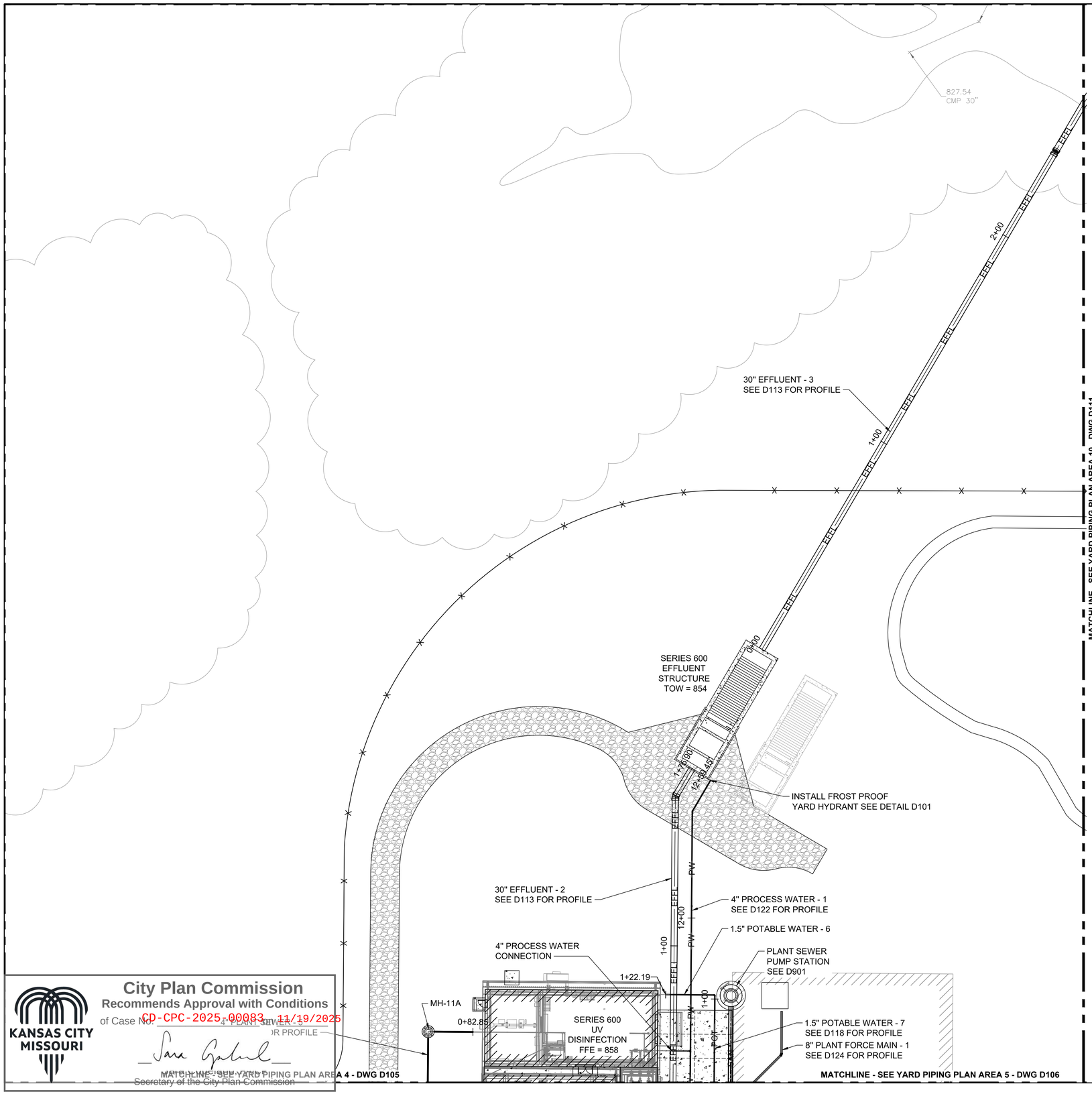
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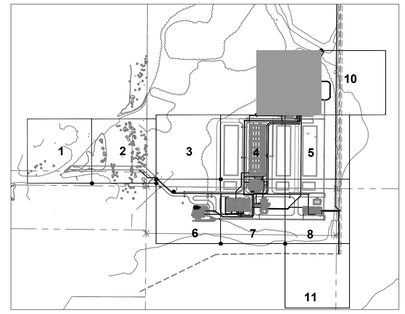
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1698				D109

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KEY MAP

NORTH

0 10' 20' 40'

SCALE IN FEET

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REVISION BLOCK

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

YARD PIPING PLAN
AREA 9

FOR WSD USE:

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1698				D110

PROJECT NO.	SHEET	OF
81000927		

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MECHANICAL & ELECTRICAL ENGINEERING

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CIVIL + STRUCTURAL ENGINEERING

WELLNER architects

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RCP FLARED END SECTION
SEE D?? FOR DETAIL

30" EFFLUENT - 3
SEE D113 FOR PROFILE

4" PVC HOOVER HEIGHTS
SEWER FORCE MAIN

11+00
10+00
9+00
8+00
SAN FM

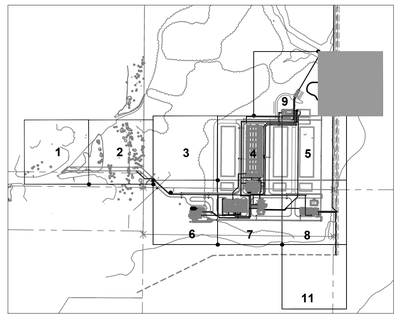
N262-013 (7" CONC.)
TOP=834.05
FL IN (S) 48" RCP=811.10
FL OUT (N) 48" RCP=811.07
FLOOR=811.05

834.05
MHSS BOLTEDDOWN 1"BOLT

MATCHLINE - SEE YARD PIPING PLAN AREA 9 - DWG D110

STORMWATER LINE (TYP)
SEE CIVIL DRAWINGS

MATCHLINE - SEE YARD PIPING PLAN AREA 5 - DWG D106



KEY MAP

NORTH

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SCALE IN FEET

KANSAS CITY MISSOURI

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TODD CREEK WWTP EXPANSION AND UPGRADE

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YARD PIPING PLAN AREA 10

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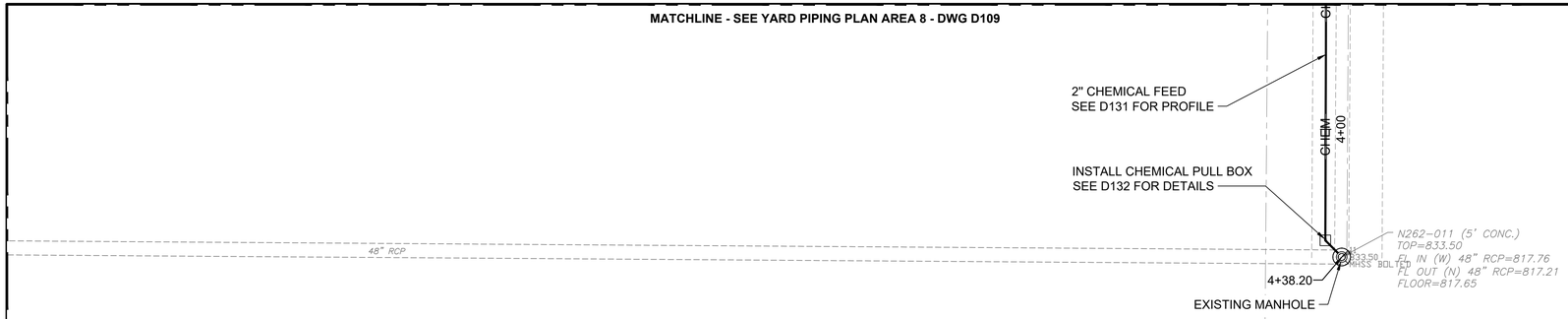
CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

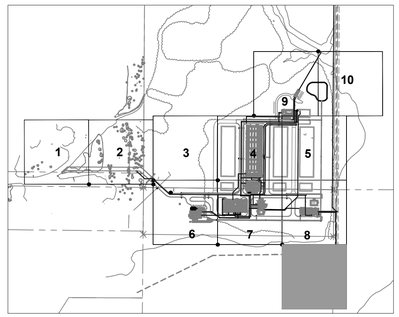
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MATCHLINE - SEE YARD PIPING PLAN AREA 8 - DWG D109





KEY MAP

11

City Plan Commission
Recommends Approval with Conditions
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Secretary of the City Plan Commission



0 10' 20' 40'
SCALE IN FEET

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BURNS McDONNELL

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YARD PIPING PLAN
AREA 11

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CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

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1698				D112

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Attachment 6

Site Lighting Plans

9400 Ward Parkway | Kansas City, MO 64114 | burnsmcd.com

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER OR APPROVED EQUAL	DESCRIPTION	CATALOG/SERIES NUMBER	BATTERY	LAMP		VOLTAGE	TOTAL WATTS	MOUNTING	FIXTURE FINISH	NOTES
					TYPE	LUMENS					
A	H.E. WILLIAMS	1X4 ENCLOSED AND GASKETED LED FIXTURE WITH FIBERGLASS OUTER HOUSING AND CLEAR ACRYLIC LENS, RATED -20 TO +40 DEGREE C. 14,500 LUMENS, 4000K, 80 CRI, NEMA 4X, IP66 RATED.	EGL2-4-L145/840-HIA-(EM/10W)-DRV-UNV	EMERGENCY BATTERY PACK 10W WHERE INDICATED ON THE DRAWINGS	LED	14,500	277	95	PENDANT MOUNT AT HEIGHT PER PLANS	WHITE	
B	H.E. WILLIAMS	1X4 ENCLOSED AND GASKETED LED FIXTURE WITH FIBERGLASS OUTER HOUSING AND CLEAR ACRYLIC LENS, RATED -20 TO +40 DEGREE C. 10,700 LUMENS, 4000K, 80 CRI, NEMA 4X, IP66 RATED.	EGL2-4-L107/840-HIA-(EM/10W)-DRV-UNV	EMERGENCY BATTERY PACK 10W WHERE INDICATED ON THE DRAWINGS	LED	10,700	277	73	PENDANT MOUNT AT HEIGHT PER PLANS	WHITE	
C-1	HUBBELL KILLARK	53" X 8 " ENCLOSED AND GASKETED LED LINEAR LUMINAIRE WITH FIBERGLASS HOUSING, CLEAR LEXAN POLYCARBONATE LENS AND 20KA/10KV SURGE PROTECTION. CLASS I, DIV. 2, GROUP D, 5000 LUMENS, 5000K, 70 CRI.	LZ2NL-34-30 ADJUSTABLE WALL BRACKET - LAZB	EMERGENCY BACKUP VIA INVERTER WHERE INDICATED ON THE DRAWINGS	LED	5075	277	34	WALL MOUNT AT HEIGHT PER PLANS		CLASSIFIED AREAS. CLASS I, DIV. 2
C-2	HUBBELL KILLARK	53" X 8 " ENCLOSED AND GASKETED LED LINEAR LUMINAIRE WITH FIBERGLASS HOUSING, CLEAR LEXAN POLYCARBONATE LENS AND 20KA/10KV SURGE PROTECTION. CLASS I, DIV. 2, GROUP D, 5000 LUMENS, 5000K, 70 CRI.	LZ2NL-80-30	EMERGENCY BACKUP VIA INVERTER WHERE INDICATED ON THE DRAWINGS	LED	11,140	277	80	PENDANT MOUNT AT HEIGHT PER PLANS		CLASSIFIED AREAS. CLASS I, DIV. 2
C-3	HUBBELL KILLARK	53" X 8 " ENCLOSED AND GASKETED LED LINEAR LUMINAIRE WITH FIBERGLASS HOUSING, CLEAR LEXAN POLYCARBONATE LENS AND 20KA/10KV SURGE PROTECTION. CLASS I, DIV. 2, GROUP D, 5000 LUMENS, 5000K, 70 CRI.	LZ2NL-120-30	EMERGENCY BACKUP VIA INVERTER WHERE INDICATED ON THE DRAWINGS	LED	16,010	277	120	PENDANT MOUNT AT HEIGHT PER PLANS		CLASSIFIED AREAS. CLASS I, DIV. 2
D	HE WILLIAMS	1X4 ENCLOSED AND GASKETED LED FIXTURE WITH FIBERGLASS OUTER HOUSING, FROSTED UV POLYCARBONATE LENS, RATED -20 TO +40 DEGREE C. STAINLESS STEEL WALL BRACKET WHERE REQUIRED PER DRAWINGS. 8,100 LUMENS, 4000K, 80 CRI, NEMA 4X, IP66 RATED.	96-4-L81-840-PCFR-(EM/10W)-DRV-UNV WALL BRACKET - WMB	EMERGENCY BATTERY PACK 10W WHERE INDICATED ON THE DRAWINGS	LED	8100	277	65	WALL OR PENDANT MOUNT AT HEIGHT PER PLANS	WHITE	
F	LSI LIGHTING	EXTERIOR BUILDING PERIMETER WALL MOUNTED FIXTURE. RATED -40 T0 +50 DEGREE C, IP65 RATED. TYPE 3 DISTRIBUTION WITH NO UPLIGHT COMPONENT, 6000 LUMENS, 4000K, 70 CRI. PROVIDE INTEGRAL PHOTOCELL WHERE INDICATED ON DRAWINGS.	XWM-3-LED-6L-40-UE BATTERY BACKUP - CWBB INTEGRAL PHOTOCELL - PCI208-277	EMERGENCY BATTERY PACK 1500 LUMENS WHERE INDICATED ON THE DRAWINGS	LED	6000	277	30	WALL MOUNT AT HEIGHT PER PLANS	COORDINATE FINISH WITH ARCHITECT AND OWNER	
G	CURRENT LIGHTING (FIXTURE) CURRENT LIGHTING (POLE)	LED SINGLE HEAD FIXTURE ON 30 FT ROUND, TAPERED ALUMINUM POLE RATED FOR 100 MPH WIND WITH VIBRATION DAMPER. UL WET LOCATION RATED AND RATED FOR -40 DEGREE C tO +40 DEGREE C. PROVIDE UNIVERSAL ARM MOUNT, OCCUPANCY SENSOR CONTROL, TYPE IV FORWARD DISTRIBUTION, 9,626 LUMENS AT 75W, 4000K, 70 CRI.	VP-1-160L-75-4K7-4F-208-A4U-NXWS-16F POLE: RTAA-30-80-B-OT-UL-VM2S25	N/A	LED	9626	208	75	POLE MOUNT AT 33 FT AFG	COORDINATE FINISH WITH ARCHITECT AND OWNER	SEE DETAIL ON SHEET E012.
H	METALUX (COOPER)	2X2 RECESSSED LED PANEL, PROVIDE 0-10V DIMMING. 2610 LUMENS, 3500K	22FP2535HE-(EL14W)	EMERGENCY BATTERY PACK 14W, 1200 LUMENS WHERE INDICATED ON THE DRAWINGS	LED	2610	277	20	RECESSED AT H EIGHT PER PLANS	COORDINATE FINISH WITH ARCHITECT	
J	AFX LIGHTING	12 INCH ROUND DOWNLIGHT, WET LOCATION RATED. PROVIDE 1-10V DIMMING. 1320 DELIVERED LUMENS, 3500K, 90 CRI.	EGRF12LAJD3WH	EMERGENCY BACKUP VIA INVERTER WHERE INDICATED ON THE DRAWINGS	LED	1320	277	22	SURFACE MOUNT AT HEIGHT PER PLANS	COORDINATE FINISH WITH ARCHITECT	ADMIN L OCKER, BATHROOM, HALL AND EXTERIOR CANOPY
K	HE WILLIAMS	1 FT X 4 FT UTILITY FIXTURE. UL DAMP LOCATION RATED. 9,300 LUMENS WITH SIDE ILLUMINATION COMPONENT, 3500K.	NW-4-L93-8-35-RA-(EM/10WLP)-DIM-UNV	EMERGENCY BATTERY PACK 10W WHERE INDICATED ON THE DRAWINGS	LED	9241	277	70	PENDANT MOUNT AT HEIGHT PER PLANS	WHITE	ADMIN LAB ROOM
L	METALUX (COOPER)	2X2 RECESSSED LED PANEL, PROVIDE 0-10V DIMMING. 4330 LUMENS, 3500K	22FP4235C-(EL14W)	EMERGENCY BATTERY PACK 14W, 1200 LUMENS WHERE INDICATED ON THE DRAWINGS	LED	4330	277	39	RECESSED AT H EIGHT PER PLANS	COORDINATE FINISH WITH ARCHITECT	
M	HALO (COOPER)	4 INCH ROUND DOWNLIGHT, MEDIUM DISTRIBUTION, PROVIDE 0-10V DIMMING. 1000 LUMENS, 3500K, 80 CRI.	HC4-10-D010 HM4-0525-835-41-MD-C-WF	N/A	LED	1000	277	10	RECESSED AT H EIGHT PER PLANS	COORDINATE FINISH WITH ARCHITECT	ADMIN CONTROL ROOM

KANSAS CITY MISSOURI

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816-333-9400
Licensee No. 000165

NO.	DATE	BY:	CHECKED:	DESCRIPTION
A	9/12/25	RAL	CKB	ISSUED FOR 60% REVIEW

REVISIONS

FOR WSD USE:

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

ELECTRICAL LIGHT FIXTURE SCHEDULE SHEET 1

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
M.CAYETANO	A.JONES	9/12/25	34W	-	-

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	-

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	E018

PROJECT NO. 81000927 SHEET - OF 560

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER OR APPROVED EQUAL	DESCRIPTION	CATALOG/SERIES NUMBER	BATTERY	LAMP		VOLTAGE	TOTAL WATTS	MOUNTING	FIXTURE FINISH	NOTES
					TYPE	LUMENS					
N	HUBBELL KILLARK	VM LED SERIES FIXTURE WITH 90 DEGREE STANCHION. MOUNT ON 10 FOOT ALUMINUM SPARTAN POLE WITH HINGE. NEMA 4X, IP66 RATED, 7000 LUMENS, 4000K, 80 CRI, TYPE 5 OPTIC WITH POLYCARBONATE DIFFUSE LENS. PROVIDE WITH GUARD AND DOME REFLECTOR TO ELIMINATE UPLIGHT. PROVIDE WITH EMERGENCY BATTERY PACK,	VML-1-X-7-(iE1)-30-S-4-G-PD-4080-DR VMLXDR (DOME), VMLXGRD (GUARD) MOUNTING BOX: STANCHION 90 DEGREE STRAIGHT POLE: HJB-AL-10	EMERGENCY BATTERY PACK 10W, WHERE INDICATED ON THE DRAWINGS	LED	7000	277	55	STANCHION MOUNT ON 10 FT POLE MOUNTED TO METAL PLATFORM WALKWAY	COORDINATE FINISH WITH ARCHITECT	SEE DETAIL ON SHEET E015. FIXTURES SHALL BE CONTROLLED THROUGH EXTERIOR LIGHTING CONTROL PANEL INSIDE BUILDING.
N1	HUBBELL KILLARK	VM LED SERIES FIXTURE. CLASS I, DIV.2, 9000 LUMENS, 4000K, 80 CRI, TYPE 5 OPTIC WITH POLYCARBONATE DIFFUSE LENS. PROVIDE WITH GUARD AND DOME REFLECTOR TO ELIMINATE UPLIGHT. PROVIDE WITH EMERGENCY BATTERY PACK,	VML-1-X-9-(iE1)-30-B-3-G-PD-4080-DR VMLXDR (DOME), VMLXGRD (GUARD) WALL MOUNTING BOX: VMB3B	EMERGENCY BATTERY PACK 10W, WHERE INDICATED ON THE DRAWINGS	LED	9000	277	75	SURFACE MOUNT TO METAL I-BEAM AT 15 FT	COORDINATE FINISH WITH ARCHITECT	IPS SCREENS BUILDING CLASSIFIED AREAS. CLASS I, DIV. 2. SEE DETAIL ON SHEET ??? FIXTURES SHALL BE CONTROLLED THROUGH EXTERIOR LIGHTING CONTROL PANEL INSIDE BUILDING.
N2	HUBBELL KILLARK	VM LED SERIES FIXTURE WITH 90 DEGREE STANCHION. MOUNT ON 30 FOOT ROUND, TAPERED ALUMINUM POLE RATED 100MPH WITH VIBRATION DAMPER. CLASS I, DIV.2, 9000 LUMENS, 4000K, 80 CRI, TYPE 5 OPTIC WITH POLYCARBONATE DIFFUSE LENS. PROVIDE WITH GUARD AND DOME REFLECTOR TO ELIMINATE UPLIGHT. PROVIDE WITH EMERGENCY BATTERY PACK,	VML-1-X-9-(iE1)-30-S-4-G-PD-4080-DR VMLXDR (DOME), VMLXGRD (GUARD) MOUNTING BOX: STANCHION 90 DEGREE STRAIGHT POLE: RTAA-30-80-B-OT-UL-VM2S25	EMERGENCY BATTERY PACK 10W, WHERE INDICATED ON THE DRAWINGS	LED	9000	277	75	STANCHION MOUNT ON 30 FT POLE.MOUNT AT 33 FT AFG.	COORDINATE FINISH WITH ARCHITECT	IPS SCREENS BUILDING CLASSIFIED AREAS. CLASS I, DIV. 2. SEE DETAIL ON SHEET E012 FIXTURES SHALL BE CONTROLLED THROUGH EXTERIOR LIGHTING CONTROL PANEL INSIDE BUILDING.
P	HUBBELL KILLARK	EXTERIOR BUILDING PERIMETER WALL MOUNTED FIXTURE RATED CLASS I, DIVISION 2, +55 DEGREE C. PROVIDE INTEGRAL PHOTOCELL, GLARE SHIELD WITH FULL CUTOFF VISOR, 4000 LUMENS, 4000K.	KWPL-4-30-P2-PVLV-VMFSPC2	EMERGENCY BACKUP VIA INVERTER WHERE INDICATED ON THE DRAWINGS	LED	4000	277	34	WALL MOUNT AT HEIGHT PER PLANS	COORDINATE FINISH WITH ARCHITECT AND OWNER	CLASS I, DIV. 2, EXTERIOR PERIMETER BUILDING LIGHITNG FOR HEADWORKS BUILDING
R	HE WILLIAMS	1 FT X 4 FT UTILITY FIXTURE. UL DAMP LOCATION RATED. PROVIDE LOWER LUMEN PACKAGE AT 7,000 LUMENS, 3500K, 80 CRI.	SLF-4-L98/835-(L70)-HIA-(EM/10W)-DIM-UNV	EMERGENCY BATTERY PACK 10W WHERE INDICATED ON THE DRAWINGS	LED	7000	277	54	WALL MOUNT AT HEIGHT PER PLANS	WHITE	
S	H.E. WILLIAMS	1 FT X 4 FT UTILITY FIXTURE WITH REFLECTOR. PROVIDE LOWER LUMEN PACKAGE AT 10,000 LUMENS, 4000K, 80 CRI. UL DAMP LOCATION RATED.	80-4-L115/840-(L100)-(EM/10W)-DRV-UNV	EMERGENCY BATTERY PACK 10W WHERE INDICATED ON THE DRAWINGS	LED	10,000	277	64	PENDANT MOUNT AT HEIGHT PER PLANS	WHITE	IPS AND ADMIN ELECTRICAL ROOM
S-1	H.E. WILLIAMS	1 FT X 4 FT UTILITY FIXTURE WITH REFLECTOR. PROVIDE 5,300 LUMENS, 4000K, 80 CRI. UL DAMP LOCATION RATED.	80-4-L53-8-40-(EM/10W)-DRV-UNV	EMERGENCY BATTERY PACK 10W WHERE INDICATED ON THE DRAWINGS	LED	5,300	277	34	PENDANT MOUNT AT HEIGHT PER PLANS	WHITE	ADMIN MECHANICAL AND JANITOR ROOM
T	PMC LIGHTING	1 FT X 4FT DIRECT WALL WASH, MEDIUM OUTPUT WITH 1100 LUMENS PER FOOT, 3500K, 80 CRI. PROVIDE DIFFUSER.	E3095-D-FL-35K-110-"X"-D-WHT-UNV 'X' INDICATES LENGTH PER DRAWINGS	N/A	LED	1100/FT	277	6.8/FT	RECESSED AT HEIGHT PER PLANS	WHITE	ADMIN RESTROOMS OVER SINKS AND STALLS. FIELD VERIFY LENGTHS AND COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS.
W		MONUMENT SIGN DELETED									
X	CURRENT LIGHTING (DUAL LITE)	NEMA 4X LED EXIT SIGN WITH BATTERY BACKUP. PROVIDE UNIVERSAL MOUNTING OPTION. PROVIDE SELF DIAGNOSTICS.	EVE4X-R-W-E-I	PROVIDE NICKEL CADMIUM BATTERY BACKUP FOR 90 MINUTES	LED		277	3	WALL OR SURFACE AT 7'-8" AFF, U.O.N.	WHITE WITH RED LETTERS. SEE PLANS FOR ARROWS AND FACES.	NEMA 4X EXIT SIGN
X2	HE WILLIAMS	LED EXIT SIGN WITH BATTERY BACKUP. PROVIDE UNIVERSAL MOUNTING OPTION. PROVIDE SELF DIAGNOSTICS.	EXIT/EM/LED-R-WHT-NH-D	PROVIDE NICKEL CADMIUM BATTERY BACKUP FOR 90 MINUTES	LED		277	3	WALL OR SURFACE AT 7'-8" AFF, U.O.N.	WHITE WITH RED LETTERS. SEE PLANS FOR ARROWS AND FACES.	EXIT SIGN
X3	LARSON ELECTRONICS APPROVED EQUAL BY EATON	CLASS I DIV. II RATED LED EXIT SIGN WITH BATTERY BACKUP. PROVIDE SELF DIAGNOSTICS.	HAL-EMG-EXT-3W-CLG-RED HAL-EMG-EXT-3W-PND-RED HAL-EMG-EXT-3W-WAL-RED	PROVIDE NICKEL CADMIUM BATTERY BACKUP FOR 90 MINUTES	LED		277	3	CEILING, PENDANT OR WALL, 7'-8" AFF, U.O.N.	WHITE WITH RED LETTERS. SEE PLANS FOR ARROWS AND FACES.	CLASS I, DIV. II EXIT SIGN FOR CLASSIFIED AREAS

FIXTURE SCHEDULE NOTES:
1. ALL INTERIOR LAMPS SHALL BE APPROXIMATELY 4000K, UNO.
2. ALL EXTERIOR LAMPS SHALL BE APPROXIMATELY 4000K, UNO.
3. ALL EXTERIOR FIXTURES SHALL HAVE COLD WEATHER LED DRIVERS.
4. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA TIMECLOCK OR PHOTOCELL ON AND PHOTOCELL OFF AS INDICATED ON DRAWINGS.
5. ALL FIXTURES SHALL BE DLC LISTED OR ENERGY STAR RATED FOR EVERGY REBATE PROGRAM.
6. FIXTURES DESIGNATED WITH "E" ON THE DRAWINGS SHALL INCLUDE AN INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK OR CONNECT TO INVERTER.

KANSAS CITY MISSOURI

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DuBois Consultants CIVIL • STRUCTURAL ENGINEERING
WELLNER architects
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Burns & McDonnell Engineering Co, Inc
816-333-9400
Licensee No. 000165

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A	9/12/25	RAL	CKB	ISSUED FOR 60% REVIEW

REVISIONS

FOR WSD USE:

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

ELECTRICAL LIGHT FIXTURE SCHEDULE SHEET 2

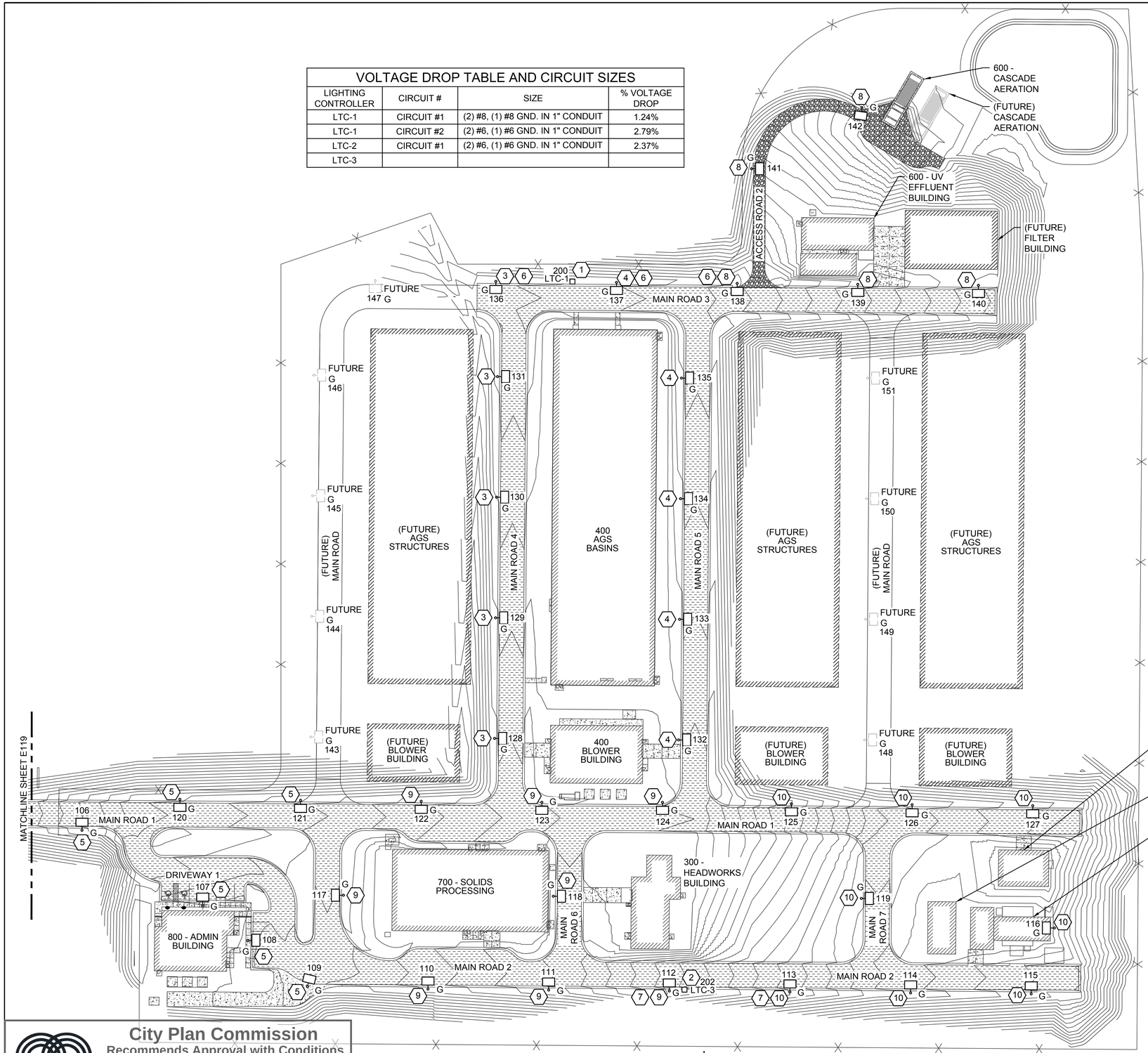
DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
M.CAYETANO	A.JONES	9/12/25	34W	-	-

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO.	-

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698	-	-	-	E019

PROJECT NO. 81000927 SHEET - OF 560

VOLTAGE DROP TABLE AND CIRCUIT SIZES			
LIGHTING CONTROLLER	CIRCUIT #	SIZE	% VOLTAGE DROP
LTC-1	CIRCUIT #1	(2) #8, (1) #8 GND. IN 1" CONDUIT	1.24%
LTC-1	CIRCUIT #2	(2) #6, (1) #6 GND. IN 1" CONDUIT	2.79%
LTC-2	CIRCUIT #1	(2) #6, (1) #6 GND. IN 1" CONDUIT	2.37%
LTC-3			



ELECTRICAL SITE LIGHTING PLAN
0 25' 50' 100'

GENERAL NOTES:

1. REFER TO SHEET E001 FOR ELECTRICAL LEGEND.
2. REFER TO SHEETS E018 AND E019 FOR LIGHT FIXTURE SCHEDULE.
3. REFER TO SHEET E118 FOR NORTHING AND EASTING COORDINATES FOR SITE LIGHT POLES.
4. REFER TO PANEL SCHEDULES ON SHEET E603 AND E803.

KEYED NOTES:

1. PROPOSED LOCATION OF NEW LIGHTING CONTROLLER LTC-1. PROVIDE (4) #4, (1) #8 GND IN 2" CONDUIT FROM LIGHTING CONTROLLER LTC-1 TO PANEL UV-PNL-041, CIRCUITS 4, 6 LOCATED IN UV DISINFECTION BUILDING. REFER TO LIGHTING CONTROLLER DETAILS ON SHEET E008 AND E009.
2. PROPOSED LOCATION OF NEW LIGHTING CONTROLLER LTC-3. PROVIDE (4) #4, (1) #8 GND IN 2" CONDUIT FROM LIGHTING CONTROLLER LTC-3 TO PANEL GRSC-PNL-041, CIRCUITS 7, 9 LOCATED IN HEADWORKS BUILDING. REFER TO LIGHTING CONTROLLER DETAILS ON SHEET E008 AND E009.
3. PROPOSED LOCATION OF NEW SITE LIGHT POLE TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE ON CIRCUIT #1 ON LIGHTING CONTROLLER LTC-1. PROVIDE (2) #8, (1) #8 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLES TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE CONTROLLED BY PHOTOCELL ON, PHOTOCELL OFF LOCATED INSIDE THE LIGHTING CONTROLLER LTC-1. REFER TO SITE LIGHT POLE DETAILS ON SHEET E012.
4. PROPOSED LOCATION OF NEW SITE LIGHT POLE TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE ON CIRCUIT #2 ON LIGHTING CONTROLLER LTC-1. PROVIDE (2) #6, (1) #6 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLES TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE CONTROLLED BY PHOTOCELL ON, PHOTOCELL OFF LOCATED INSIDE THE LIGHTING CONTROLLER LTC-1. REFER TO SITE LIGHT POLE DETAILS ON SHEET E012.
5. PROPOSED LOCATION OF NEW SITE LIGHT POLE TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE ON CIRCUIT#1 ON LIGHTING CONTROLLER LTC-2. PROVIDE (2) #6, (1) #6 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLES TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE CONTROLLED BY PHOTOCELL ON, PHOTOCELL OFF LOCATED INSIDE THE LIGHTING CONTROLLER LTC-2. REFER TO SITE LIGHT POLE DETAILS ON SHEET E012.
6. PROVIDE (2) #8, (1) #8 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLE TYPE 'G' AND LIGHTING CONTROLLER LTC-1.
7. PROVIDE (2) #6, (1) #6 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLE TYPE 'G' AND LIGHTING CONTROLLER LTC-3 .
8. PROPOSED LOCATION OF NEW SITE LIGHT POLE TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE ON CIRCUIT #3 ON LIGHTING CONTROLLER LTC-1. PROVIDE (2) #6, (1) #6 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLES TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE CONTROLLED BY PHOTOCELL ON, PHOTOCELL OFF LOCATED INSIDE THE LIGHTING CONTROLLER LTC-1. REFER TO SITE LIGHT POLE DETAILS ON SHEET E012.
9. PROPOSED LOCATION OF NEW SITE LIGHT POLE TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE ON CIRCUIT #1 ON LIGHTING CONTROLLER LTC-3. PROVIDE (2) #8, (1) #8 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLES TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE CONTROLLED BY PHOTOCELL ON, PHOTOCELL OFF LOCATED INSIDE THE LIGHTING CONTROLLER LTC-3. REFER TO SITE LIGHT POLE DETAILS ON SHEET E012.
10. PROPOSED LOCATION OF NEW SITE LIGHT POLE TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE ON CIRCUIT #2 ON LIGHTING CONTROLLER LTC-3. PROVIDE (2) #6, (1) #6 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLES TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE CONTROLLED BY PHOTOCELL ON, PHOTOCELL OFF LOCATED INSIDE THE LIGHTING CONTROLLER LTC-3. REFER TO SITE LIGHT POLE DETAILS ON SHEET E012.

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ELECTRICAL SITE LIGHTING PLAN
SHEET 1

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
R. LARKEY	C.BREWSTER	9/12/25			

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				E117

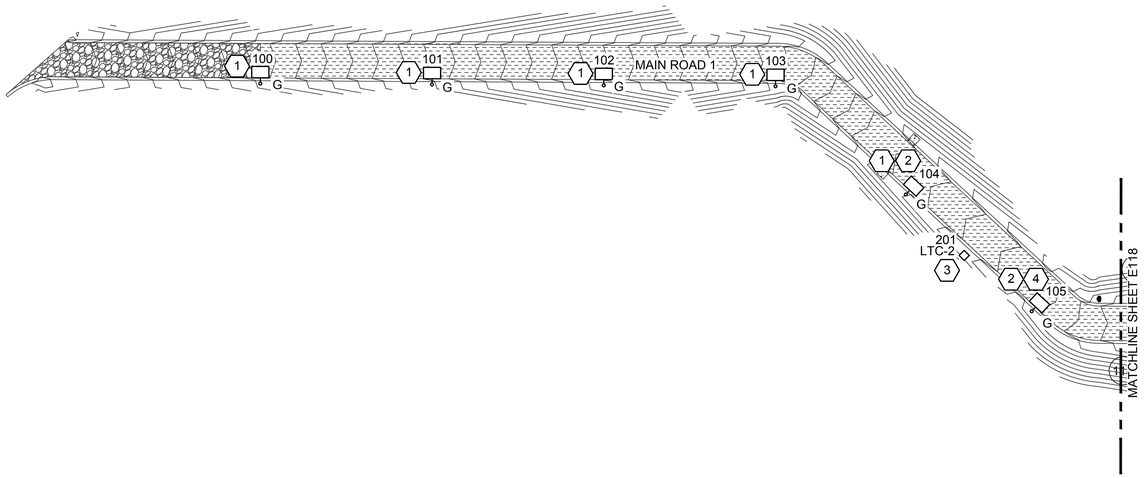
PROJECT NO. 81000927 SHEET OF

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LIGHT COORDINATES		
NUMBER	NORTHING	EASTING
100	1158314.511	2739651.373
101	1158313.888	2739771.371
102	1158313.264	2739891.370
103	1158312.641	2740011.368
104	1158237.002	2740102.455
105	1158155.369	2740190.410
106	1158130.483	2740302.805
107	1158055.949	2740422.862
108	1158021.038	2740467.740
109	1157974.841	2740527.027
110	1157972.498	2740646.906
111	1157971.533	2740766.903
112	1157970.569	2740886.899
113	1157969.605	2741006.895
114	1157968.641	2741126.891
115	1157967.677	2741246.887
116	1158033.275	2741269.934
117	1158065.852	2740562.823
118	1158064.865	2740771.610
119	1158062.629	2741077.917
120	1158161.220	2740400.171
121	1158160.256	2740520.167
122	1158159.292	2740640.164
123	1158158.328	2740760.160
124	1158158.328	2740880.160
125	1158156.815	2741008.399
126	1158155.851	2741128.395
127	1158154.887	2741248.391
128	1158221.834	2740713.183
129	1158341.830	2740714.147
130	1158461.826	2740715.112
131	1158581.822	2740716.076
132	1158220.364	2740896.177
133	1158340.360	2740897.141
134	1158460.356	2740898.106
135	1158580.352	2740899.071
136	1158676.487	2740714.399
137	1158675.520	2740834.395
138	1158674.552	2740954.391
139	1158673.585	2741074.387
140	1158672.618	2741194.384
141	1158788.586	2740968.745
142	1158849.372	2741078.432
143	1158223.303	2740530.266
144	1158343.299	2740531.230
145	1158463.295	2740532.195
146	1158583.292	2740533.159
147	1158677.455	2740594.403
148	1158220.364	2741081.171
149	1158340.360	2741082.136
150	1158460.356	2741083.100
151	1158580.352	2741084.065

LIGHT CONTROLLER COORDINATES		
NUMBER	NORTHING	EASTING
200	1158676.426	2740790.562
201	1158194.416	2740143.203
202	1157971.879	2740901.986

VOLTAGE DROP TABLE AND CIRCUIT SIZES			
LIGHTING CONTROLLER	CIRCUIT #	SIZE	% VOLTAGE DROP
LTC-2	CIRCUIT #2	(2) #8, (1) #8 GND. IN 1" CONDUIT	2.37%



GENERAL NOTES:

1. REFER TO SHEET E001 FOR ELECTRICAL LEGEND.
2. REFER TO SHEETS E018 AND E019 FOR LIGHT FIXTURE SCHEDULE.
3. SEE THIS SHEET FOR NORTHING AND EASTING COORDINATES FOR SITE LIGHT POLES.

KEYED NOTES:

1. PROPOSED LOCATION OF NEW SITE LIGHT POLE TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE ON CIRCUIT#2 ON LIGHTING CONTROLLER LTC-2. PROVIDE (2) #8,(1) #8 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLES TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE CONTROLLED BY PHOTOCELL ON, PHOTOCELL OFF LOCATED INSIDE THE LIGHTING CONTROLLER LTC-2. REFER TO SHEET E117 FOR LOCATION OF LIGHTING CONTROLLER LTC-2. REFER TO SITE LIGHT POLE DETAILS ON SHEET E012.
2. PROVIDE (2) #8, (1) #8 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLE TYPE 'G' AND LIGHTING CONTROLLER LTC-2.
3. PROPOSED LOCATION OF NEW LIGHTING CONTROLLER LTC-2. PROVIDE (4) #4, (1) #8 GND IN 2" CONDUIT FROM LIGHTING CONTROLLER LTC-2 TO PANEL ADM-PNL-041, CIRCUITS 20, 24 LOCATED IN ADMIN BUILDING. REFER TO LIGHTING CONTROLLER DETAILS ON SHEET E008 AND E009.
4. PROPOSED LOCATION OF NEW SITE LIGHT POLE TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE ON CIRCUIT #1 ON LIGHTING CONTROLLER LTC-2. PROVIDE (2) #8, (1) #8 GND IN 1" CONDUIT BETWEEN SITE LIGHT POLES TYPE 'G'. SITE LIGHT POLE TYPE 'G' SHALL BE CONTROLLED BY PHOTOCELL ON, PHOTOCELL OFF LOCATED INSIDE THE LIGHTING CONTROLLER LTC-2. REFER TO SHEET E117 FOR LOCATION OF LIGHTING CONTROLLER LTC-2. REFER TO SITE LIGHT POLE DETAILS ON SHEET E012.

ELECTRICAL SITE LIGHTING PLAN
0 25' 50' 100'

NORTH

PRELIMINARY - NOT FOR CONSTRUCTION

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CUSTOM ENGINEERING MECHANICAL & ELECTRICAL ENGINEERING
DuBois Consultants CIVIL • STRUCTURAL ENGINEERING
WELLNER architects
BURNS McDONNELL
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KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co, Inc
816-333-9400
LICENSEE NO. 000165

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FOR WSD USE:

KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

ELECTRICAL SITE LIGHTING PLAN
SHEET 2

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
M.CAYETANO	C.BREWSTER	9/12/25			

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				E118

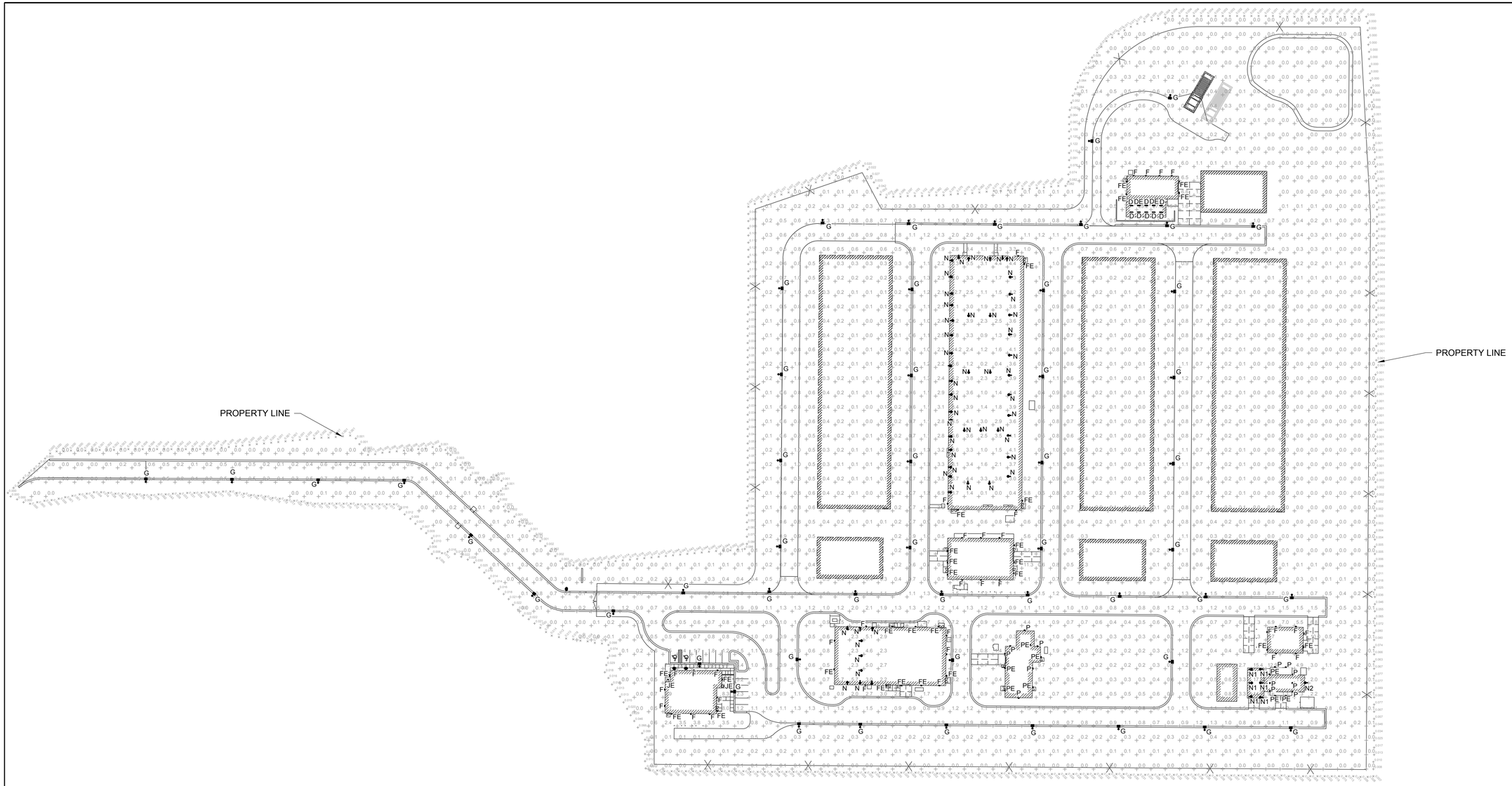
PROJECT NO.	SHEET	OF
81000927		

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PHOTOMETRIC SITE LIGHTING PLAN

0 70' 120'

NORTH

IES RECOMMENDED MAINTAINED ILLUMINANCE VALUE		
LABEL	UNIT	MIN
SITE LIGHTING/ ROAD WAY	+FC	0.2

CALCULATION SUMMARY				
LABEL	UNITS	AVG	MAX	MIN
SITE LIGHTING/ ROAD WAY	+FC	0.8	29.2	0.0
SITE LIGHTING/ PROPERTY LINE	+FC	0.027	1.55	0.0

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DuBois Consultants
WELLNER architects
BURNS McDONNELL
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KANSAS CITY, MO 64114
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TODD CREEK WWTP EXPANSION AND UPGRADE

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PHOTOMETRIC SITE LIGHTING PLAN

FOR WSD USE:

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R. LARKEY	A. JONES	10/10/25			

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	

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1698				EXXX

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81000927		

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Attachment 7

Tree Preservation & Mitigation Plans

9400 Ward Parkway | Kansas City, MO 64114 | burnsmcd.com

EXISTING TREELINE
(7.03 ACRES)

EXISTING STREAM
BUFFER
(10.48 ACRES)

DISTURBED AREA
(0.43 ACRES)

EXISTING TREES
SURVEYED WITHIN
DISTURBED AREA

MAIN ROAD-1
MAIN ROAD-2
MAIN ROAD-3
MAIN ROAD-4
MAIN ROAD-5
MAIN ROAD-6
MAIN ROAD-7
ACCESS ROAD-1
FUTURE MAIN ROAD
FUTURE MAIN ROAD

P/L

873.68

FND 1" REBAR
W/ CAP LS 1995

FND 1" REBAR
W/ CAP LS 1995

ON CURVE, NORTH 152 ACRES
EZ'S SB/A DIVISION PLAT, LOCATION
& DESCRIPT. LOCATION PER
ALLMON TRACT BK 1227 PG 87
DATED 11-19-2013

LEGEND

- P/L — PROPERTY LINE
- X — NEW FENCING
- CONSTRUCTION LIMITS
- EXISTING TREE

NORTH

0 50' 100'
SCALE IN FEET

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WELLNER architects

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

EXISTING CONDITIONS TREE PLAN

Brittney Swartz
Landscape Architect
LA-2011003571

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
LDH, SFW	BMS	-	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	-

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				L104

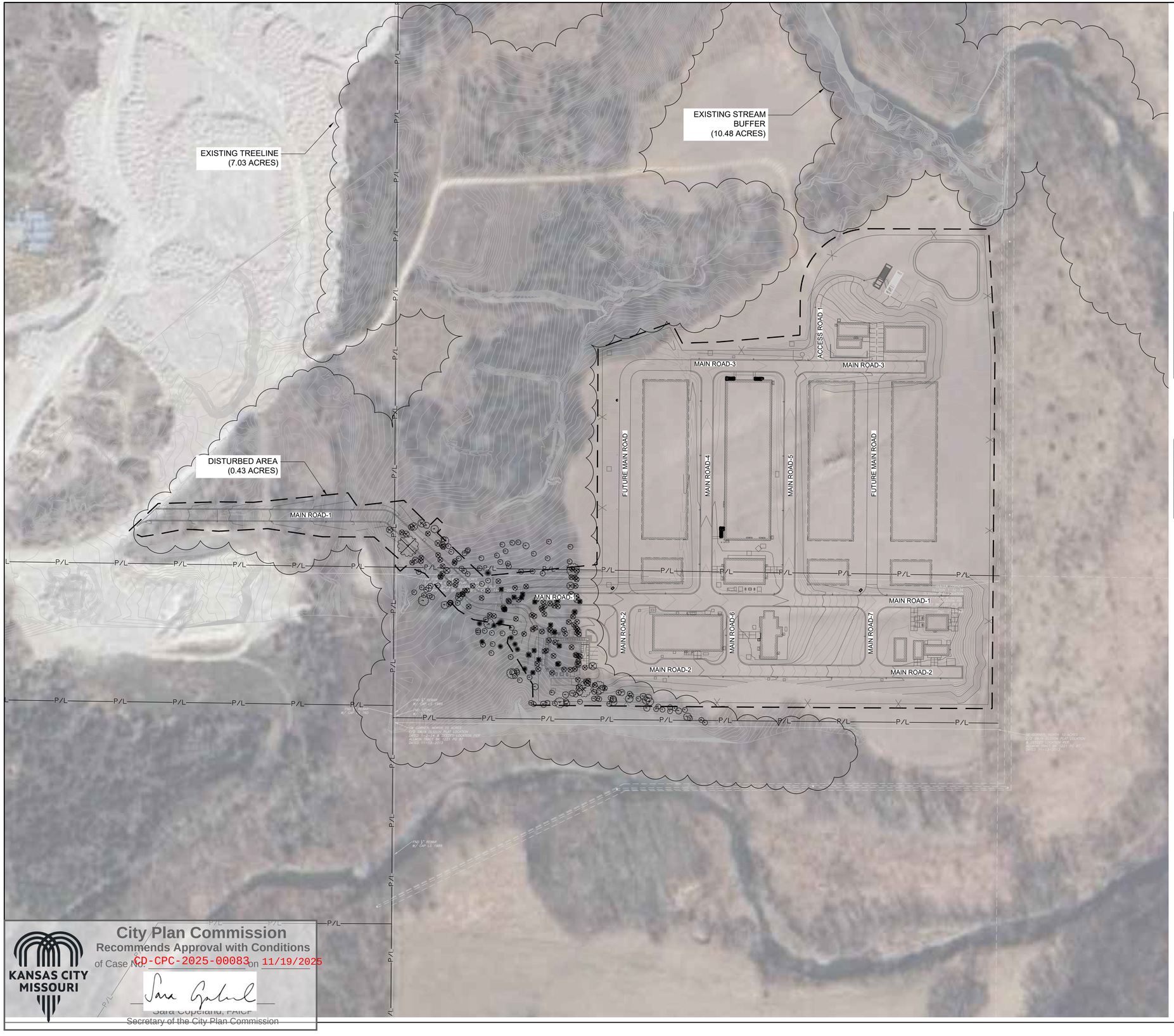
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LEGEND

- PROPERTY LINE
- NEW FENCING
- CONSTRUCTION LIMITS
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED

Code 88-424-07			
Steps	Calculation	Value	Trees Provided
step 1	total acreage of contiguous canopy cover to be removed minus total acreage of contiguous tree cover of 1+ acre preserved outside of any stream buffers	A acres - B acres	7.03-0.43
step 2	subtract undisturbed stream buffer acres	ans - D acres	6.6-10.48
step 3	Step 2 answer * 0.35	ans *.35	-10.13
step 4	Step 3 answer * 150 caliper	ans *150 caliper	-1519.5
step 5	Step 4 answer minus total caliper of inches of trees provided for required landscaping per 88-425	ans - caliper	-1521.5
step 6	Step 5 answer = number of caliper inches required for mitigation.	x caliper required	-1519.5

No Tree Mitigation is required

Strem Buffer Undistrubed	10.48 Acres
Contiguous Tree Canopy at Disturbed Area	7.03 Acres
Contiguous Tree Canopy to be Removed	0.43 Acres

Code 88-425 Landscape Requirements	Required	Proposed
88-425-04 General		
Trees*	1 tree per 5000 SF of principal building coverage.	6 Trees
88-425-06 Interior Vehicular Use Area		
Interior Area**	35 SF interior landscape per parking space	680 SF
Trees	1 tree per 5 parking spaces	3 Trees
Shrubs	1 shrub per parking space	38 Shrubs

*88-425-04 Administration Building covers 27,000 SF. 27,000/5,000 = 6 trees.

**88-425-06 Interior Vehicular Use: 35 SF x 14 Parking Stalls = 490 SF.

Detailed Landscape Plan around the principal building will be submitted with final plans.

NORTH

0 50' 100'
SCALE IN FEET

KCWATER

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WELLNER architects

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

OVERALL TREE PRESERVATION AND MITIGATION PLAN

Brittney Swartz
Landscape Architect
LA-2011003571

FOR WSD USE:

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LDH, SFW	BMS	-	34W	53N 52N	36 01

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CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				L104

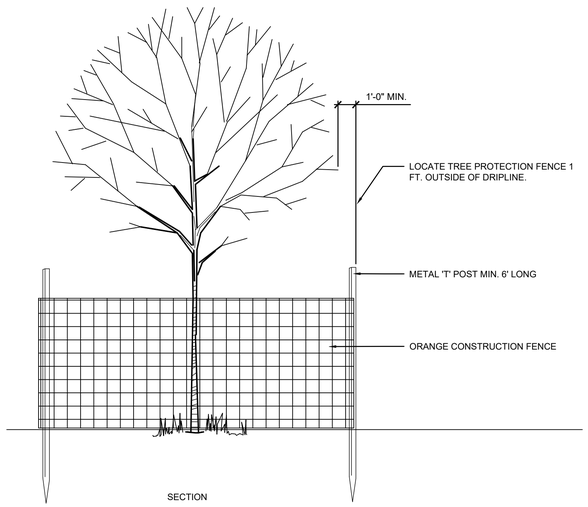
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SECTION

NOTES:
1. CONSTRUCTION FENCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION OPERATIONS
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FENCE MAINTENANCE. REPAIR AND/OR REPLACE ALL SECTIONS DAMAGED DURING CONSTRUCTION OPERATIONS
3. CONTRACTOR SHALL BE RESPONSIBLE FOR HEALTH OF PROTECTED TREES THROUGHOUT THE CONSTRUCTION PERIOD. TREES SHOWING SIGNS OF STRESS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE IMMEDIATELY. ALL TREES THAT DIE DUE TO CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. THE REPLACEMENT TREE SHALL BE OF COMPARABLE SIZE & SPECIES BASED ON NURSERY AVAILABILITY. CONTRACTOR SHALL SUBMIT REPLACEMENT TREES TO OWNERS REPRESENTATIVE FOR FINAL ACCEPTANCE PRIOR TO INSTALLATION.

1 TREE PROTECTION DETAIL

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BURNS McDONNELL

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KANSAS CITY, MISSOURI WATER SERVICES DEPARTMENT

TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

LANDSCAPE DETAILS

Brittney Swartz
Landscape Architect
LA-2011003571

FOR WSD USE:

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LDH, SFW	BMS	-	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL ENGINEERING CO	-

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				L104

PROJECT NO.	SHEET	OF
81000927	-	-

Attachment 8

Legal Description

EXHIBIT "A"

Legal Description

TRACT 1:

A tract of land in the Northwest Quarter and the Southwest Quarter of Section 1, Township 52 North, Range 34 West of the 5th Principal Meridian in Kansas City, Platte County, Missouri, being bounded and described as follows:

Commencing at the Northeast corner of said Northwest Quarter; thence South 00°27'39" West, along the East line of said Northwest Quarter, 172.64 feet to the point of beginning of the tract of land to be herein described; thence continuing South 00°27'39" West along said East line, 16.70 feet; thence South 81°08'13" West, 240.00 feet; thence South 69°33'24" East, 252.00 feet to a point on said East line; thence South 00°27'39" West, along said East line, 2,263.13 feet to the Southeast corner of said Northwest Quarter; thence South 00°27'03" West, along the East line of the Southwest Quarter, 327.63 feet to the Southeast corner of the North ten (10) acres of the East Half of the Southwest Quarter; thence North 89°19'57" West, along the South line of said North ten (10) acres, 1,329.83 feet to the Southwest corner of said North ten (10) acres; thence North 00°32'30" East, along the West line of the East Half of the Southwest Quarter, 327.62 feet to the Southwest corner of the East Half of the Northwest Quarter; thence North 00°18'11" East, along the West line of said East Half, 2,002.34 feet to a point on the centerline of an existing gravel road, said centerline being the centerline of NW 144th Street, as established and exists; thence South 82°21'47" East, along said centerline, 537.79 feet; thence Easterly, continuing along said centerline along a curve to the left, being tangent to the last described course with a radius of 117.42 feet, a central angle of 37°45'05" and an arc distance of 77.37 feet; thence North 59°53'08" East, continuing along said centerline, 185.06 feet; thence Northeasterly, continuing along said centerline, along a curve to the left, being tangent to the last described course with a radius of 226.62 feet, a central angle of 19°21'51" and an arc distance of 76.59 feet; thence North 40°31'17" East, continuing along said centerline, 19°21'51", and an arc distance of 76.59 feet; thence North 40°31'17" East, continuing along said centerline, 282.48 feet; thence Northeasterly, continuing along said centerline, along a curve to the right, being tangent to the last described course with a radius of 124.77 feet, a central angle of 39°22'41" and an arc distance of 85.75 feet; thence North 79°53'58" East, continuing along said centerline, 259.32 feet to the point of beginning, EXCEPT that part subject to road right of way and the rights of the public.

TRACT 2:

All that part of the Northwest Quarter of Section 1, Township 52, Range 34, Kansas City, Platte County, Missouri, being described as follows: Beginning at a point 42.00 feet South of a concrete covered well located in the Southeast corner of the Roy C. Cox farms, said point being South 00°27'39" West, 189.39 feet South of the Northeast corner of said Northwest Quarter; thence continuing South 00°27'39" West, along the East line of said Northwest Quarter, 125.00 feet; thence North 69°33'24" West, 252.00 feet; thence North 81°08'13" East, 240.00 feet to the point of beginning.

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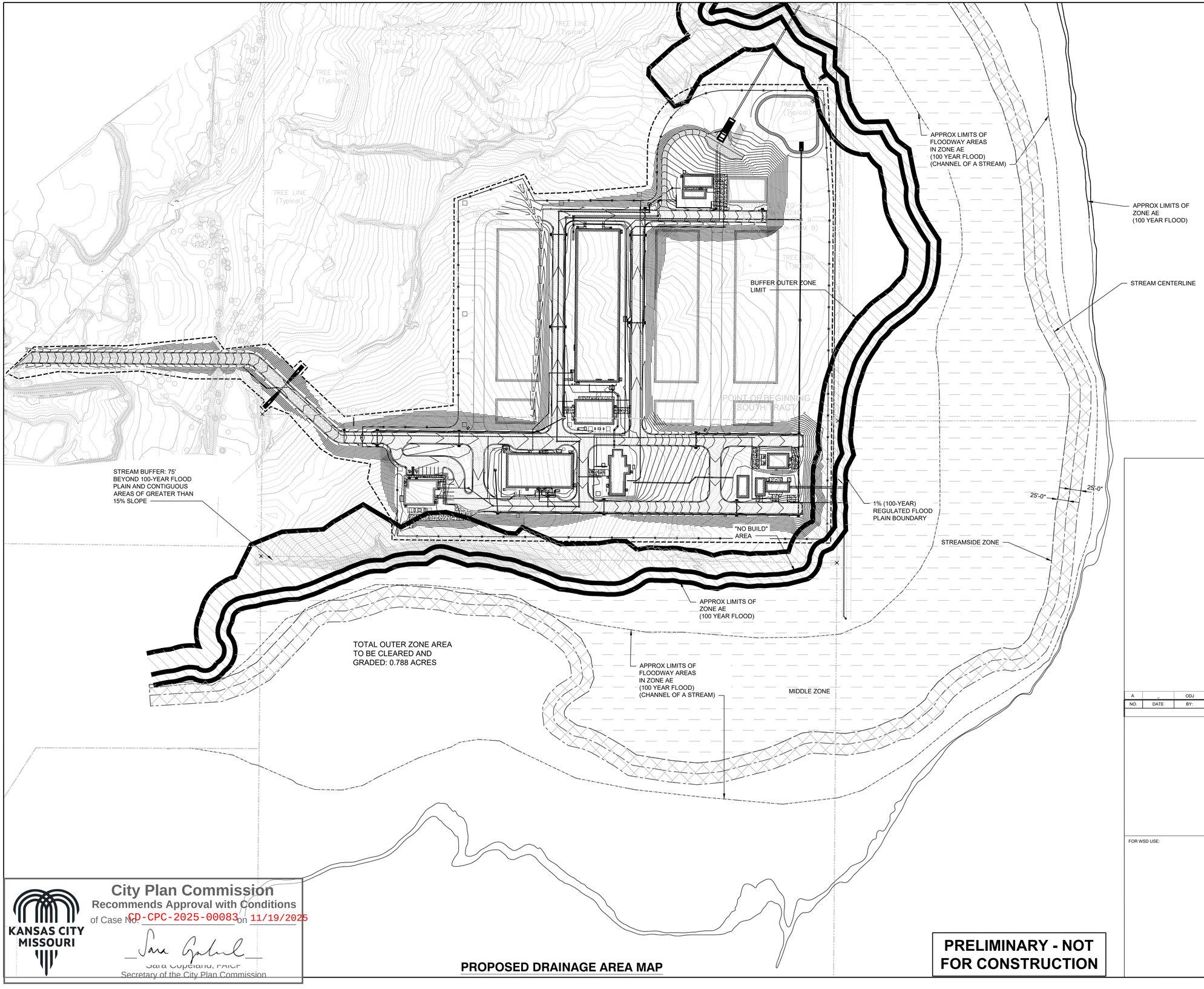
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Attachment 9

Stream Buffer Plan

9400 Ward Parkway | Kansas City, MO 64114 | burnsmcd.com



NOTE:
APPROXIMATE PERCENTAGE OF STREAM BUFFER AREA SLOPES GREATER THAN 15%-30%

LEGEND

- EXISTING 1' CONTOUR
- STREAM BUFFER ZONE LINE
- STREAM BUFFER OUTER ZONE
- MIDDLE ZONE
- STREAMSIDE ZONE

N

0 100' 200'

SCALE IN FEET

KCWATER

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REVISION BLOCK

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TODD CREEK WWTP EXPANSION AND UPGRADE

14001 NW INTERURBAN ROAD, KANSAS CITY, MO 64163

STREAM BUFFER PLAN

FOR WSD USE:

DRAWN BY:	CHECKED BY:	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
ODJ	JPG	08/27/2025	34W	53N 52N	36 01

CONTRACTOR	DATE COMPLETED
BURNS & MCDONNELL, ENGINEERING CO	

CONTRACT NO.	CONTRACT DATE	MAP NO.	WORK ORDER NO.	DRAWING NO.
1698				C001

PROJECT NO. 81000927 SHEET 1 OF 1

KANSAS CITY MISSOURI

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Sara Copeland, FAICP
Secretary of the City Plan Commission

PROPOSED DRAINAGE AREA MAP

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