GENERAL NOTES:

1. The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.

2. Contractor will be required to provide notice to utility companies a minimum of seventy–two (72) hours prior to any excavation, as follows:

Kansas One–Call	687–2470

The Contractor must notify the following in case of an emergency:

AT&T	1–800–246–8464
Black Hills Energy	1–800–694–8989
City of Wichita Water & Sewer	1–316–219–8921
City of Wichita Stormwater	1–316–268–4090
City of Wichita Traffic	1–316–268–4034
Cox Communications	1–888–249–3530
Kansas Gas Service	1–888–482–4950
Evergy	1–800–544–4857

3. Utility service lines, poles, etc. are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right–of–way which do not conflict with proposed construction.

4. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits will require additional archaeological investigations unless buried in a previously approved borrow location.

5. Trees and shrubs in public right–of–way which are in direct conflict with proposed new construction shall be removed by the Contractor with the City Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

6. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

7. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re–establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re–established by a licensed land surveyor in accordance with state laws

8. All elevations shown are NAVD88.

9. Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.

10. The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractor's expense.

11. All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, inlet barriers, and const. entrance shall be maintained throughout construction by the contractor and until project is accepted by the City of Wichita. The on–site engineer shall complete weekly reports on the status of erosion control measures. The contractor shall be required to comply with maintenance and/or replacement of erosion control measures as determined by the on–site engineer until project is accepted by City of Wichita. Maintenance and/or replacement of erosion control measures to be paid by L.S. bid item "Maintain Existing BMPs".

12. All excess excavation shall remain on–site and shall be stockpiled at a location to be determined by developer.

13. All of Central Ave. R/W disturbed during construction, disturbed areas surrounding proposed ponds above the water surface and street R/W adjacent to Reserves shall be seeded and mulched as follows:

Seed –– Kansas Premium Fescue Blend; 8 lbs. PLS/1000 Sq. Ft.
Annual Rye grass; 3 lbs./1000 Sq. Ft.
Fertilizer –– 12–24–12 Ratio; 45 Lbs./Ac.
Mulch –– 2 Tons Prairie Hay/Ac.

All other areas disturbed during construction (except building pads) are to be seeded as follows:

Seed –– Rye grass; 5 lbs./1000 Sq. Ft.

All costs associated with seeding including mobilization, preparation of ground, seeding, fertilizing, mulching, etc. shall be included in the L.S. bid item "Seeding".

An additional bid item for "Seeding, Temporary" has been included and may be used at the discretion of the design engineer. Temporary seed shall be Annual Rye at 5 lbs./1000 Sq. Ft. unless otherwise noted and shall be planted when permanent seed or sod cannot be used due to seasonal limitations. If the "Seeding, Temporary" bid item is not used, 100% of the pay item will be deducted from the contract. All costs associated with temporary seeding including mobilization, preparation of ground, seeding, etc., shall be included in the L.S. bid item "Seeding, Temporary".

14. At conclusion of construction, an as–built survey will be completed by the engineer. The contractor will be required to finish and smooth grade all locations as necessary that are not within ±0.1' of street r/w plan grade or within ±0.3' of plan grade outside of street r/w. The contractor shall include all costs associated with the regrading and/or remobilization in the bid item "Grading, Mass"

15. The developer for this project is Bridger Development, LLC, Carter Wells, Manager (314)973–0148.

Benchmarks

BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
Elev. = 1342.00 NAVD88

BM–#2: City of Wichita Benchmark disc, E side of N 135th St W, 13.2'± S. & 37.7'± E. of W1/4 Cor., Sec. 13, Twp. 27–S, R–2–W.
Elev. = 1347.48 NAVD88

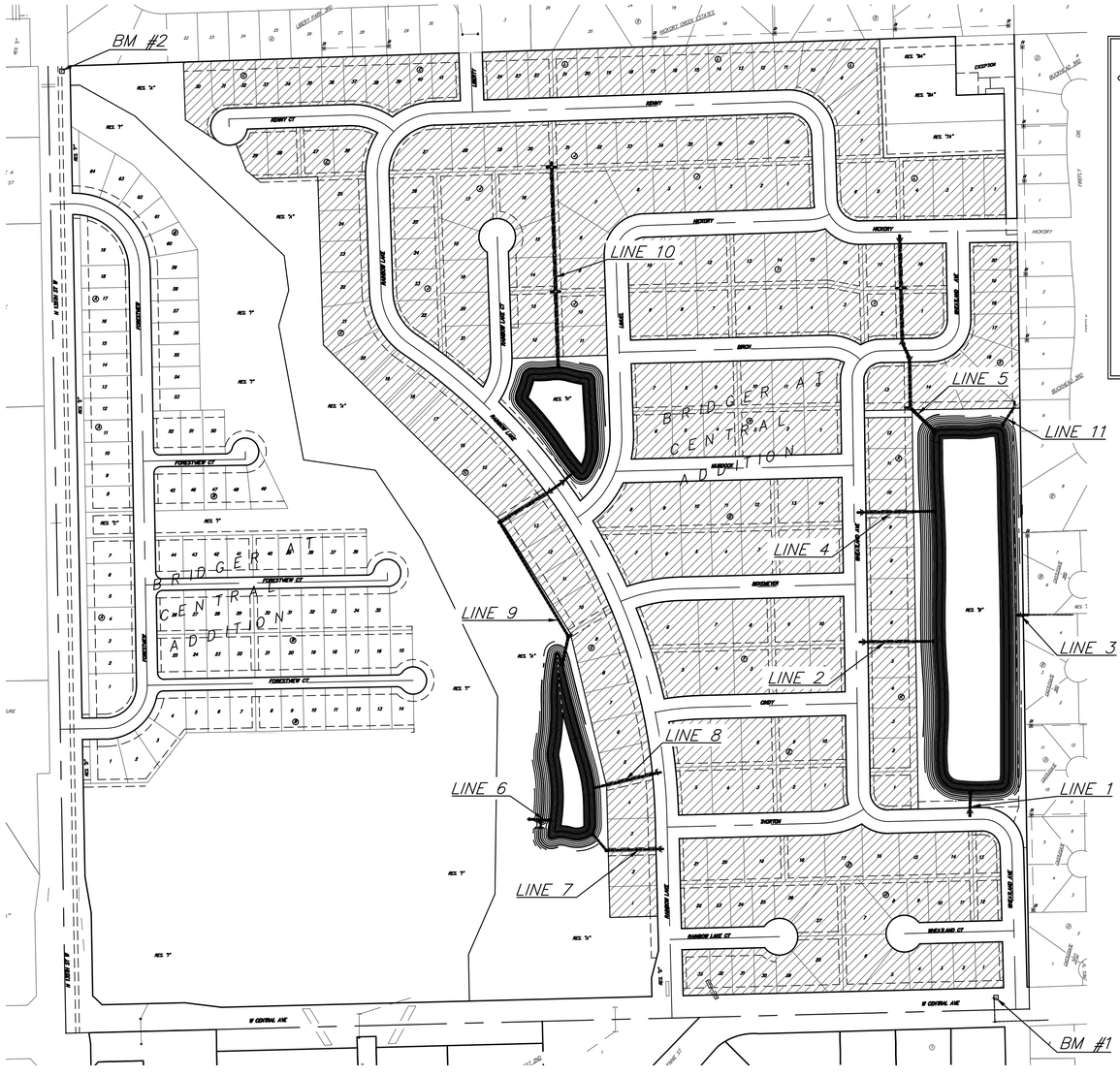
STORM WATER DRAIN IMPROVEMENTS #527

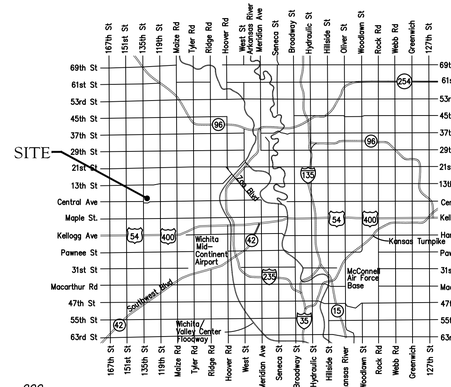
to serve

BRIDGER AT CENTRAL ADDITION - Ph. I

CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E. City Engineer
Project Number 458-2024-085572
Org Code 47314024
Munis Number E4089





Benefit District

Stormwater Certification:

(New Development) or Redevelopment

Stormwater Permit # _____

NOI Permit # S–LA20–0096 KSR122031

These construction plans were prepared in accordance with the current Stormwater management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.

Site Area (Acres) = 155.5 Ac.
Disturbed Area (Acres) = 134.0 Ac.
Water Quality Treatment: Wet Ponds
Downstream Channel Protection: _____
Detention: Wet Ponds
The BMP used for this development is Wet Ponds

Sheet Index

BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

August 29, 2024

BAUGHMAN COMPANY
315 Ellis St. Wichita, KS 67211 316-262-7271
BaughmanCo.com

E:\Projects\Bridger at Central Addition (Albert) \Engineering\Phase 1\SWD 23-09-6003\SWD.dwg

BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
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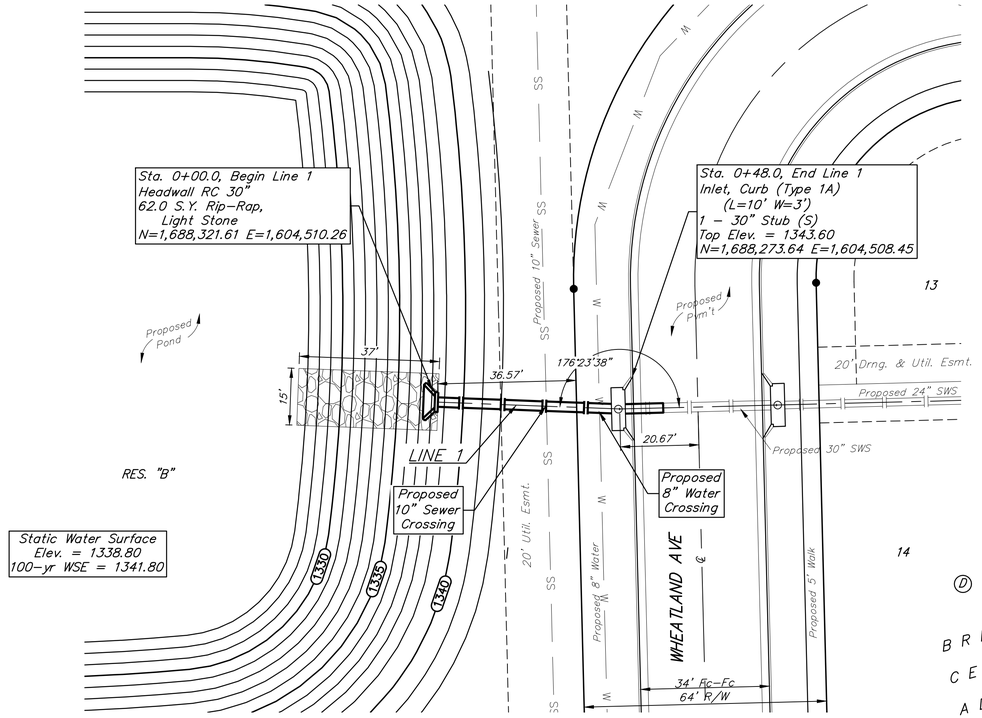
Elev. = 1347.48 NAVD88

Contact utility companies 3 weeks prior to construction to coordinate temporary removal/replacement.
Heide Bryan, Evergy, (316) 261-6354
Shannon Brinkmeyer, AT&T (316) 268-2931
Travis Taylor, Cox Comm., Travis.taylor@cox.com



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1" = 5' Vertical
• = Iron
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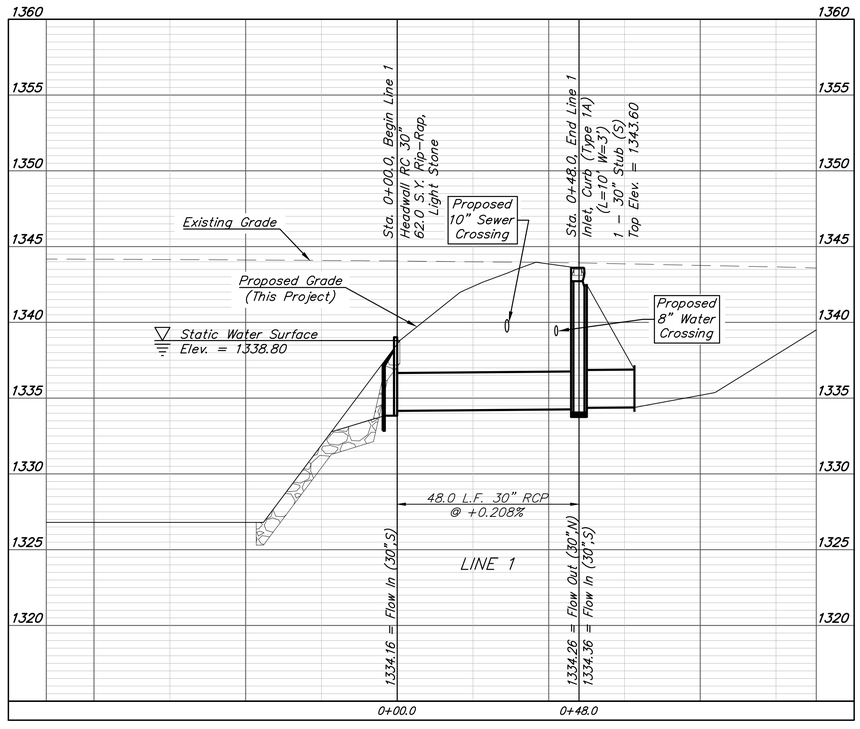

BRIDGER AT CENTRAL ADDITION

BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 1

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
23-09-603

DESIGN: NBW DRAWN: TMS
DATE: August 23, 2024

SHEET 2 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
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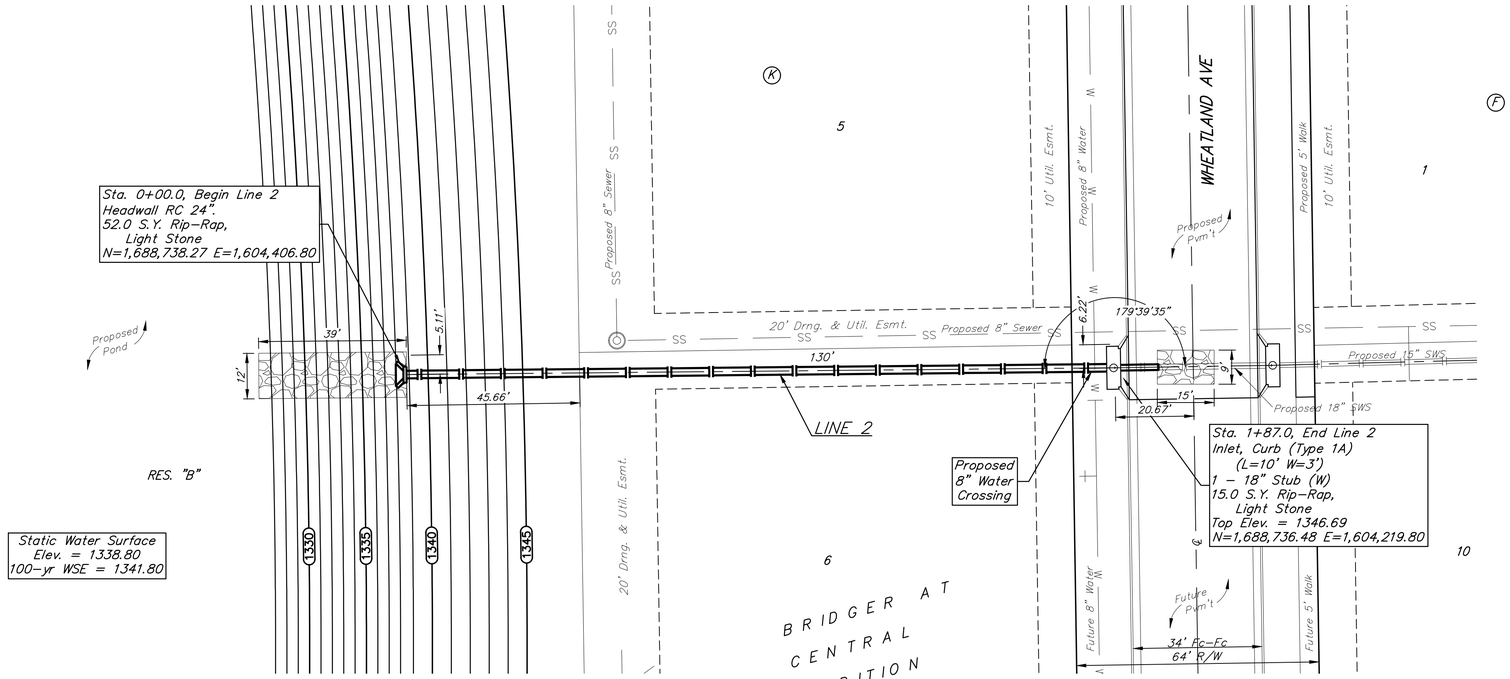

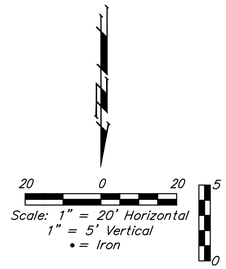

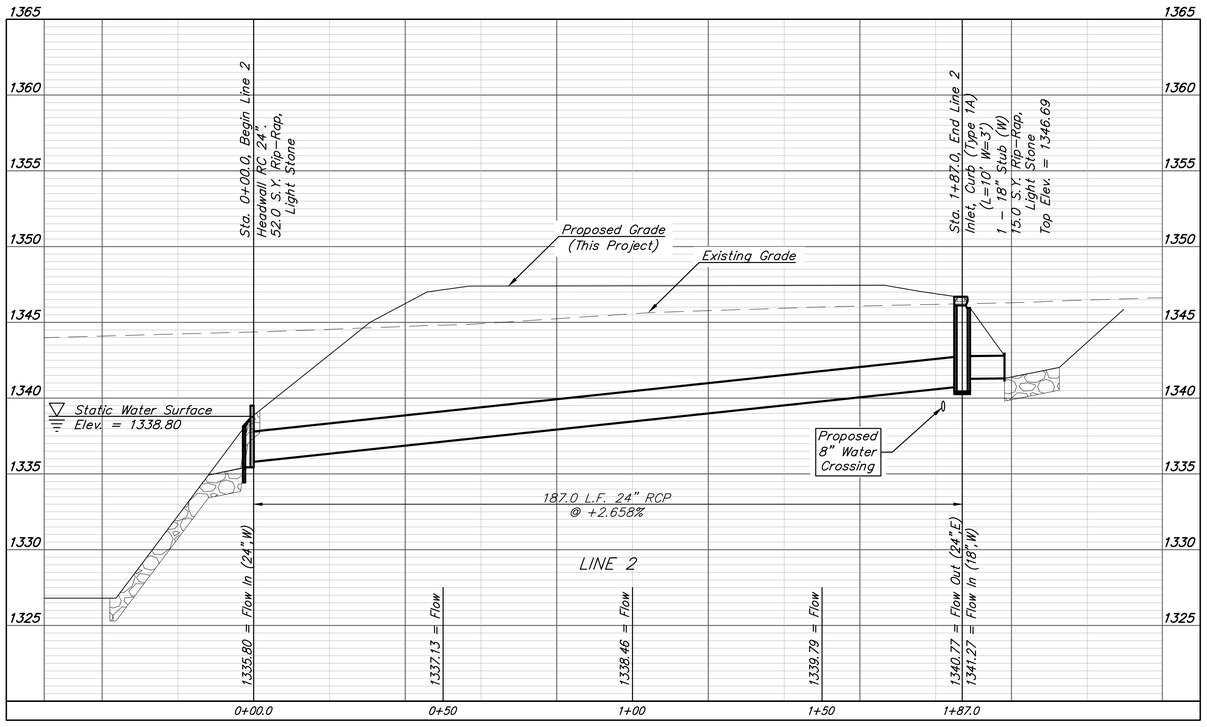

BRENT WOOTEN LICENSED
8470
09/03/2024
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 2

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 3 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_I\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
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Elev. = 1342.00 NAVD88

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Remove existing rip–rap. Remove and replace existing wood fence as necessary for storm sewer construction.

Sta. 0+27.8, End Line 3
Pipe, End Section 30"
Joint restraint required between end section & first two pipe sections.
42.0 S.Y. Rip–Rap, Light Stone w/ Toewall
N=1,688,809.54 E=1,604,641.20

Static Water Surface
Elev. = 1338.80
100–yr WSE = 1341.80

Sta. 0+00.0, Begin Line 3
MH, Standard SWS (5')
Remove 13 L.F. pipe, end section and riprap (W) and extend proposed 30" pipe west.
Top Elev. = 1343.10
N=1,688,809.98 E=1,604,668.96

Re–sod area disturbed by construction on private property with same grass. To be paid as Sodding (LS). If sprinkler system is present, notify homeowner a minimum of 72 hours in advance of construction, and return any pipe and sprinkler heads to homeowner following construction. To be subsidiary to "Site Restoration".

Proposed 10" Sewer Crossing

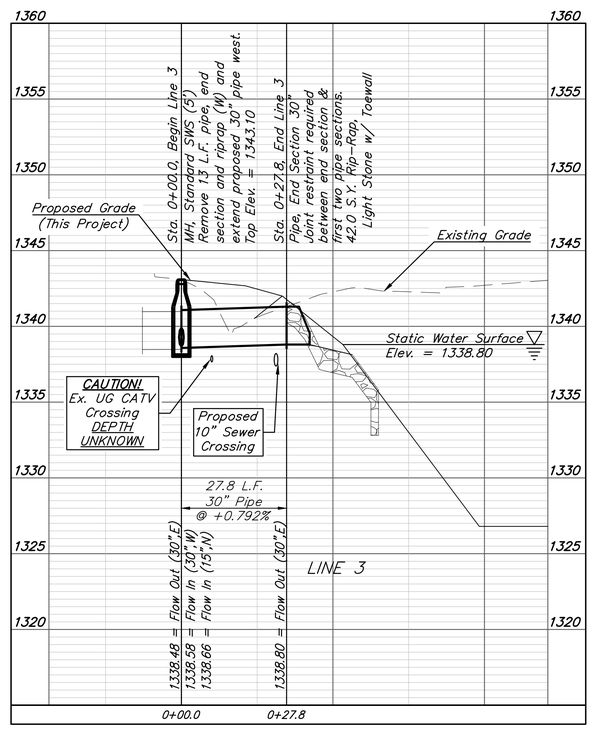
CAUTION! Ex. UG CATV Crossing

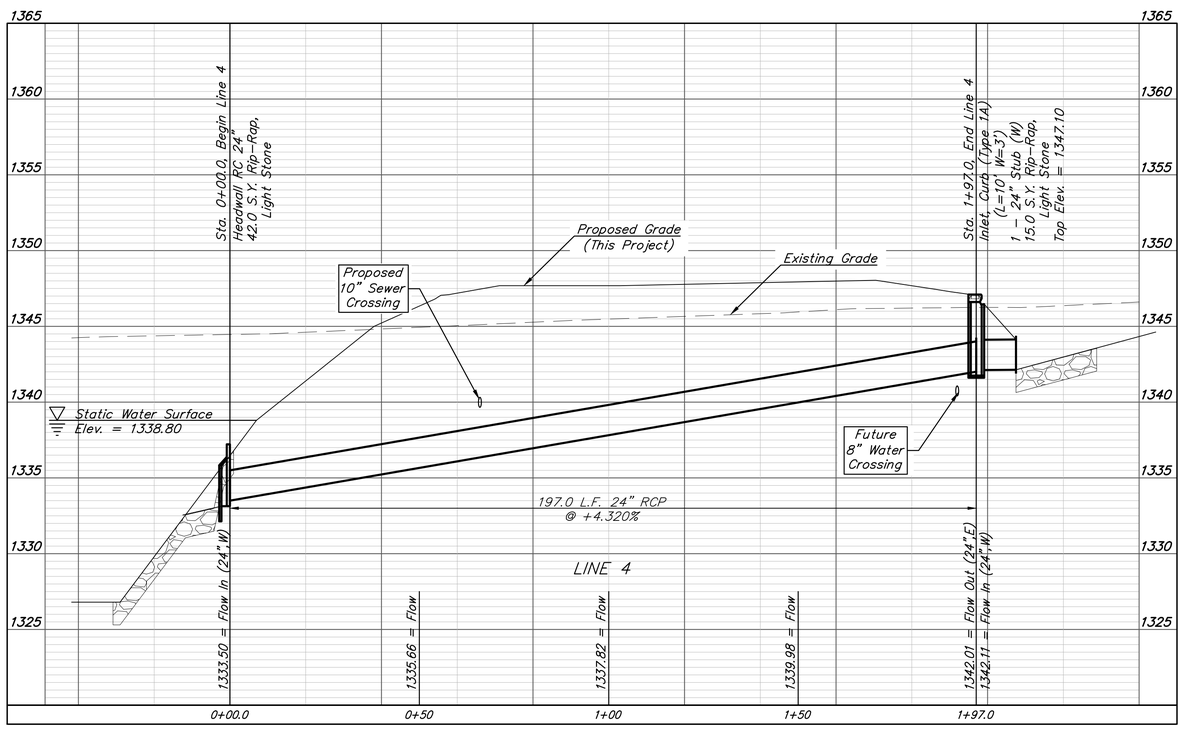
Sta. 0+00.0, Begin Line 4
Headwall RC 24"
42.0 S.Y. Rip–Rap, Light Stone
N=1,689,092.28 E=1,604,411.31

Future 8" Water Crossing

Sta. 1+97.0, End Line 4
Inlet, Curb (Type 1A) (L=10' W=3')
1 – 24" Stub (W)
15.0 S.Y. Rip–Rap, Light Stone
Top Elev. = 1347.10
N=1,689,089.22 E=1,604,214.33

Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron





BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

LINES 3 & 4

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 27, 2024

SHEET 4 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
Elev. = 1342.00 NAVD88

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Elev. = 1347.48 NAVD88

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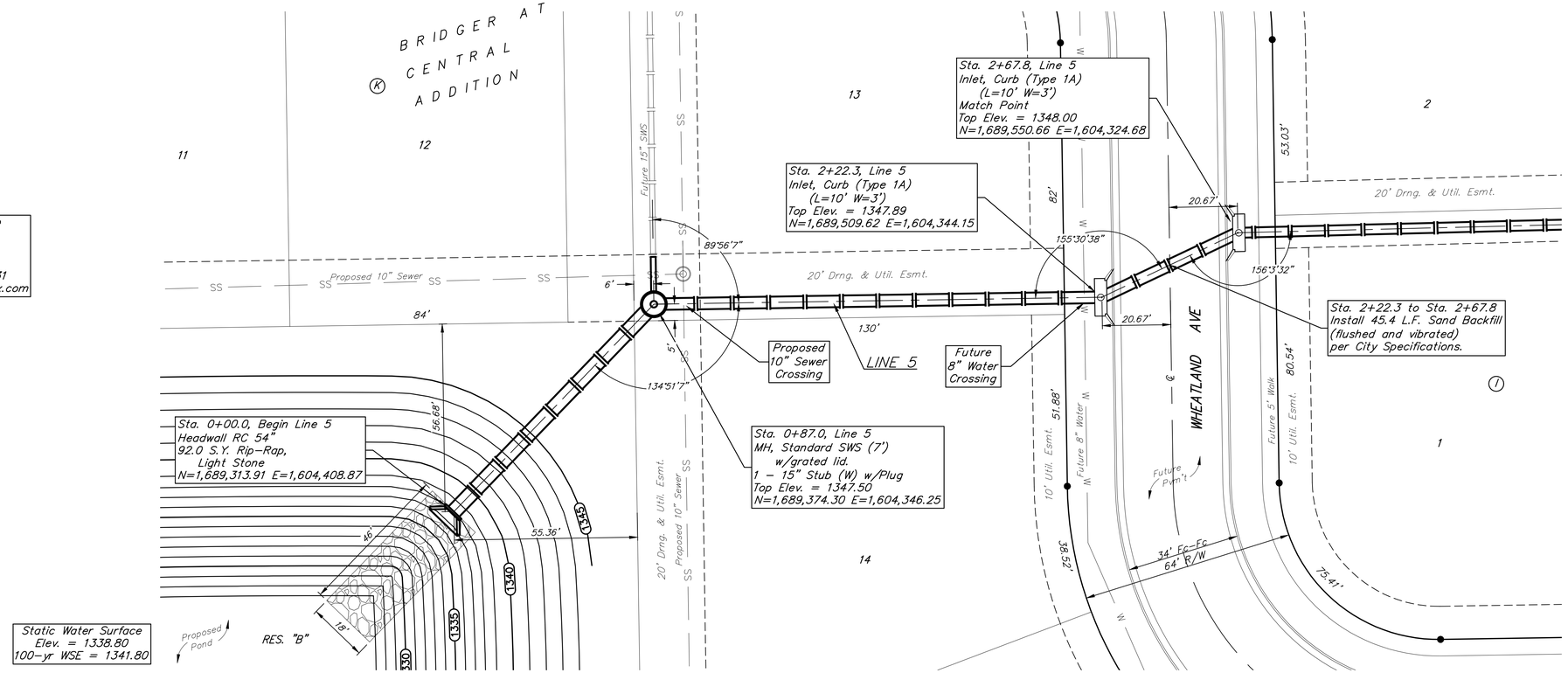

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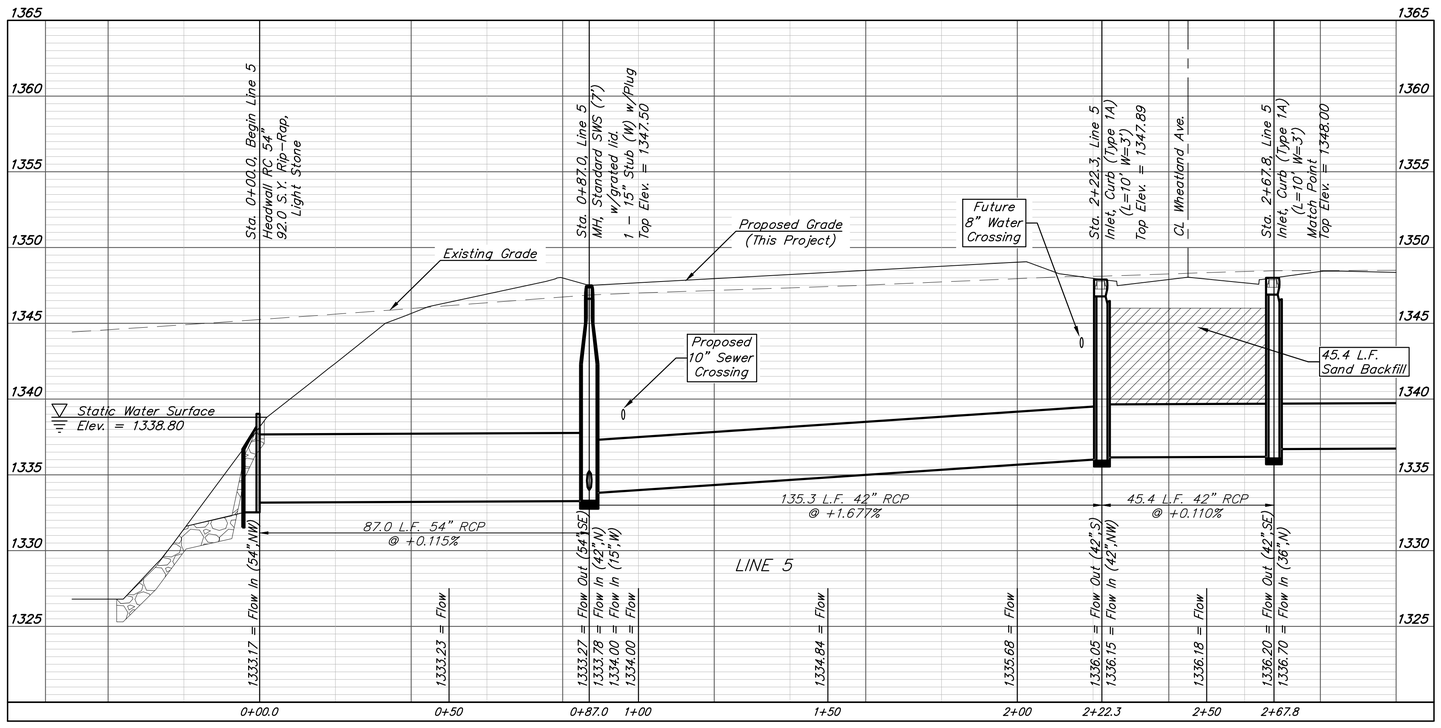

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09/03/2024
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315 Ellis St.
Wichita, KS 67211
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BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 5

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 5 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
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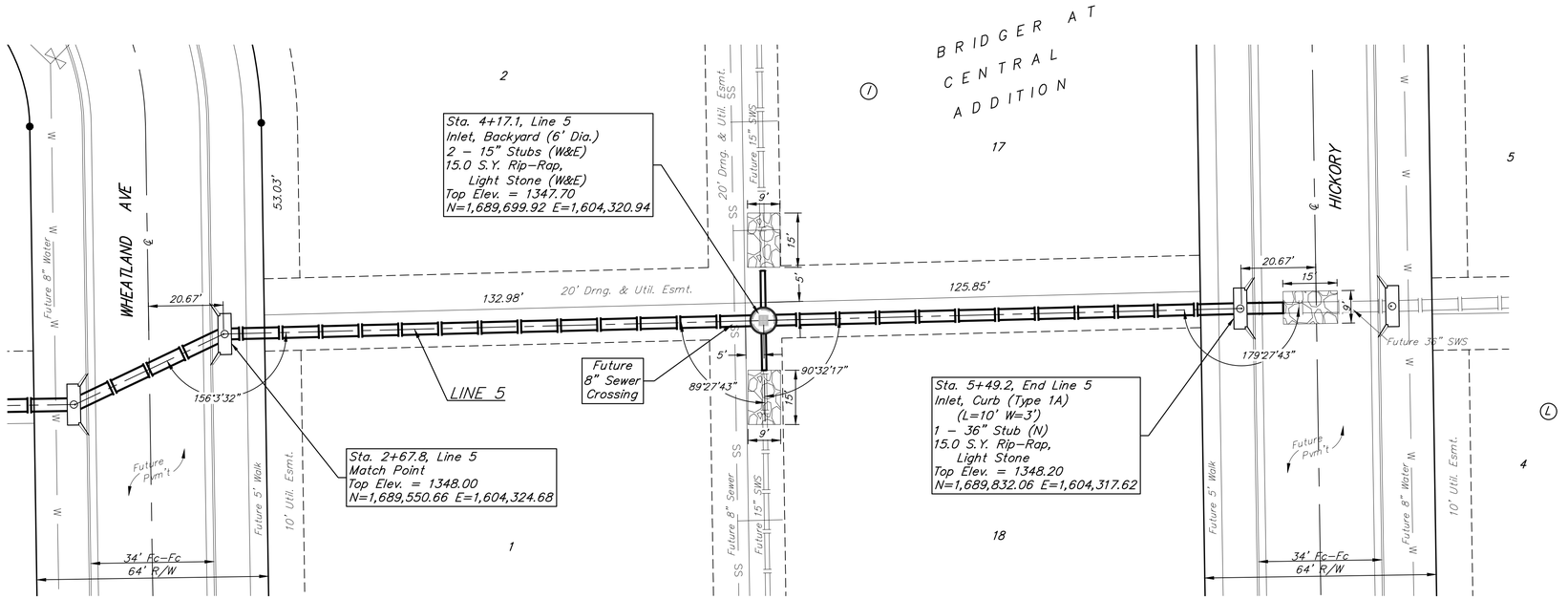

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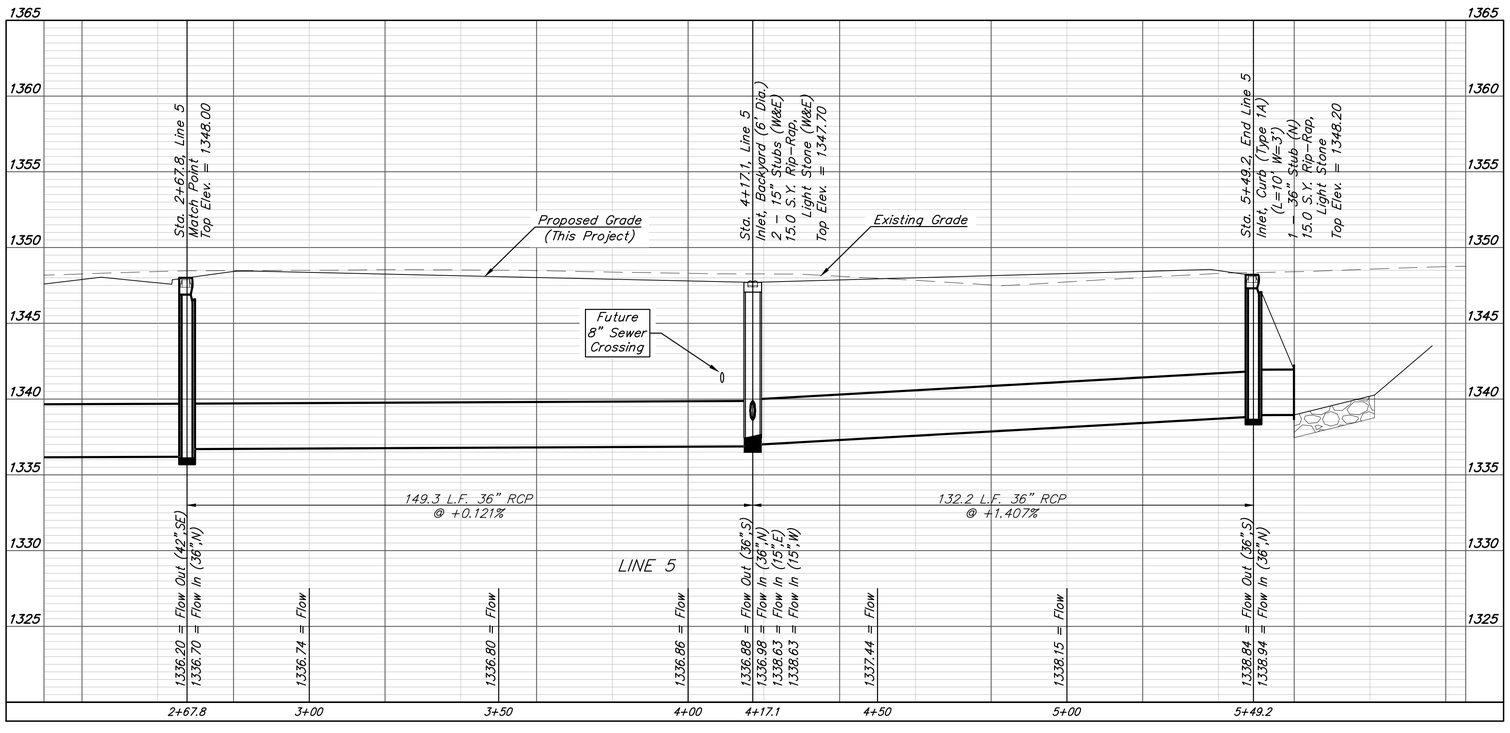

BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
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BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 5

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 6 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
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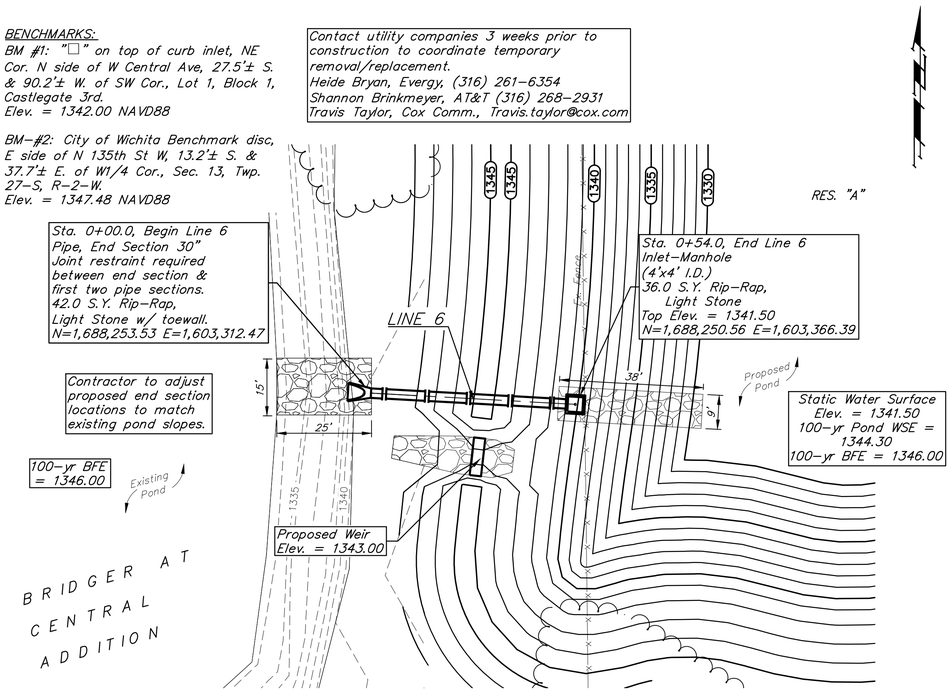
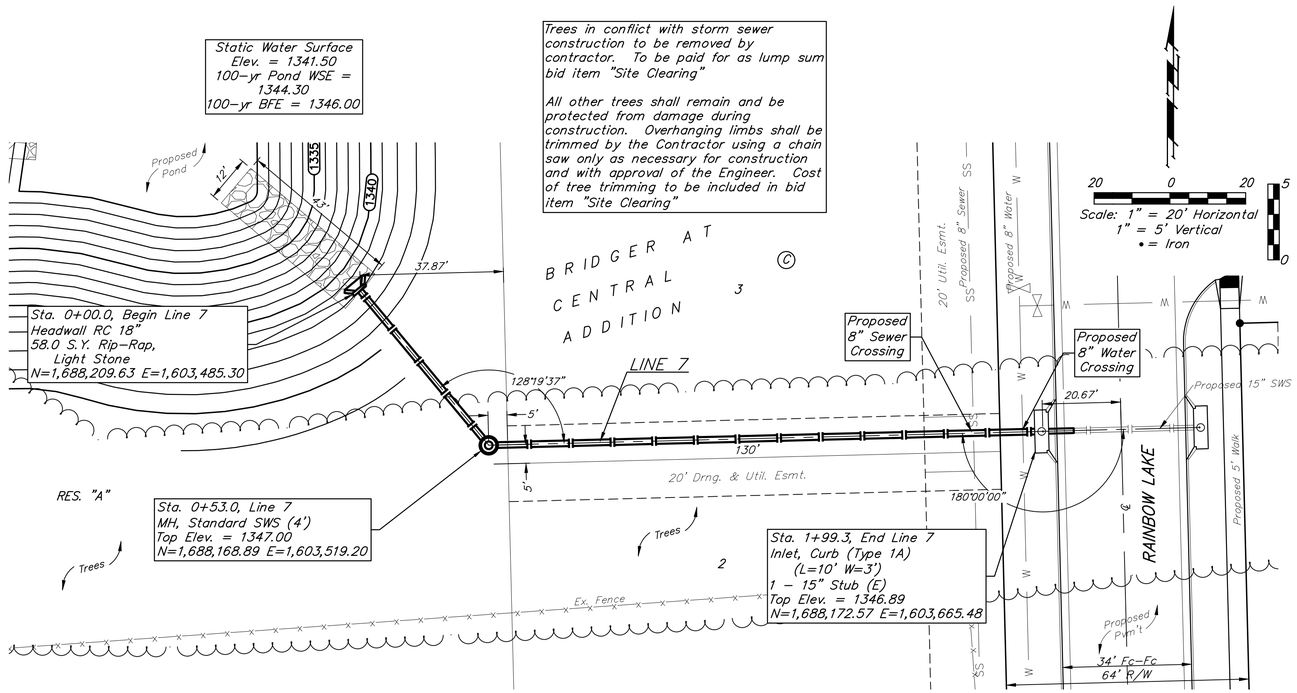
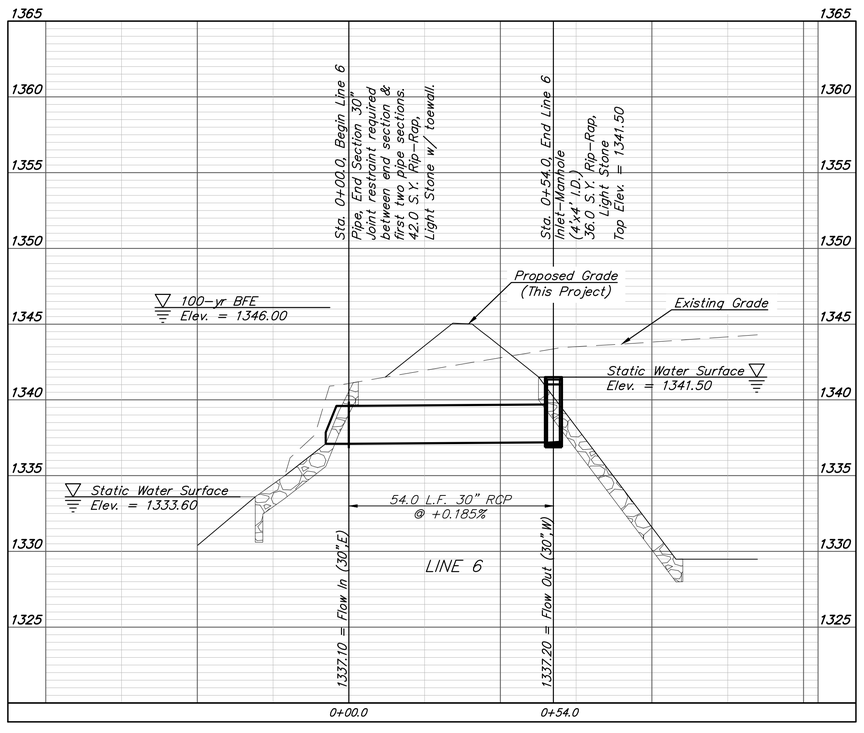


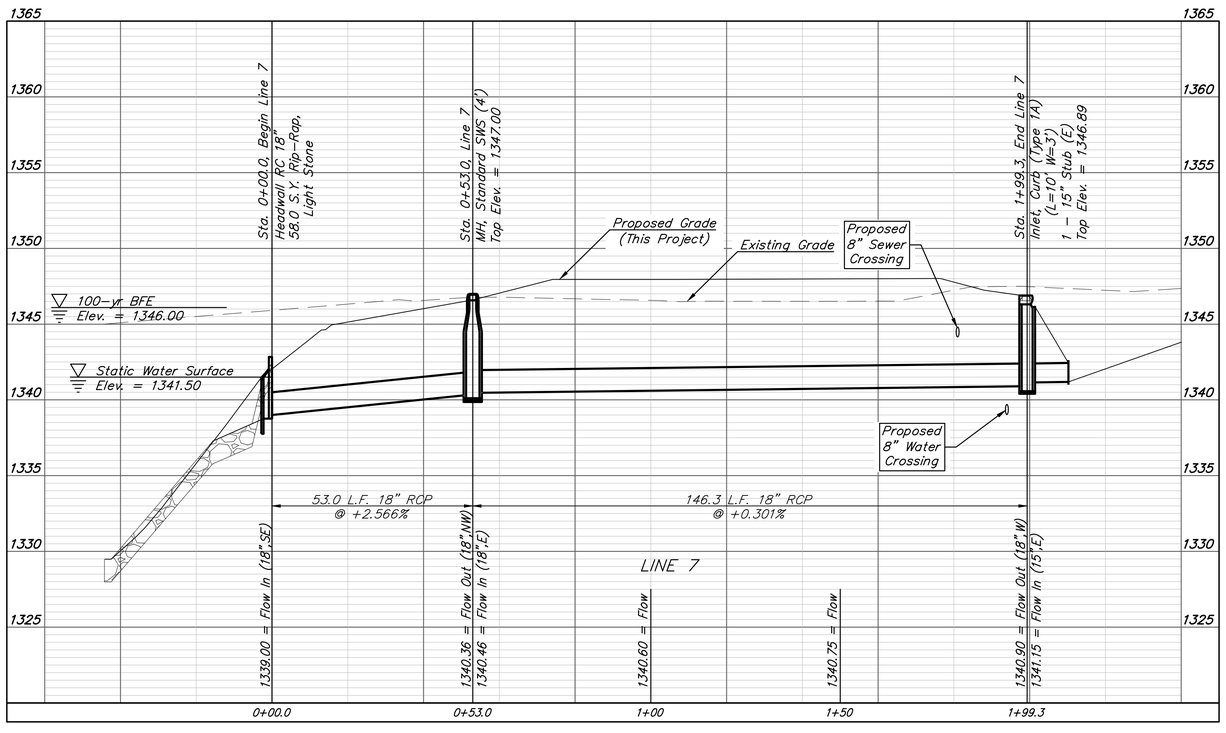
Static Water Surface
Elev. = 1341.50
100–yr Pond WSE = 1344.30
100–yr BFE = 1346.00

Trees in conflict with storm sewer construction to be removed by contractor. To be paid for as lump sum bid item "Site Clearing"

All other trees shall remain and be protected from damage during construction. Overhanging limbs shall be trimmed by the Contractor using a chain saw only as necessary for construction and with approval of the Engineer. Cost of tree trimming to be included in bid item "Site Clearing"







BRENT WOOTEN LICENSED
8470
09/03/2024
KANSAS
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BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

LINES 6 & 7

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 7 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
Elev. = 1342.00 NAVD88

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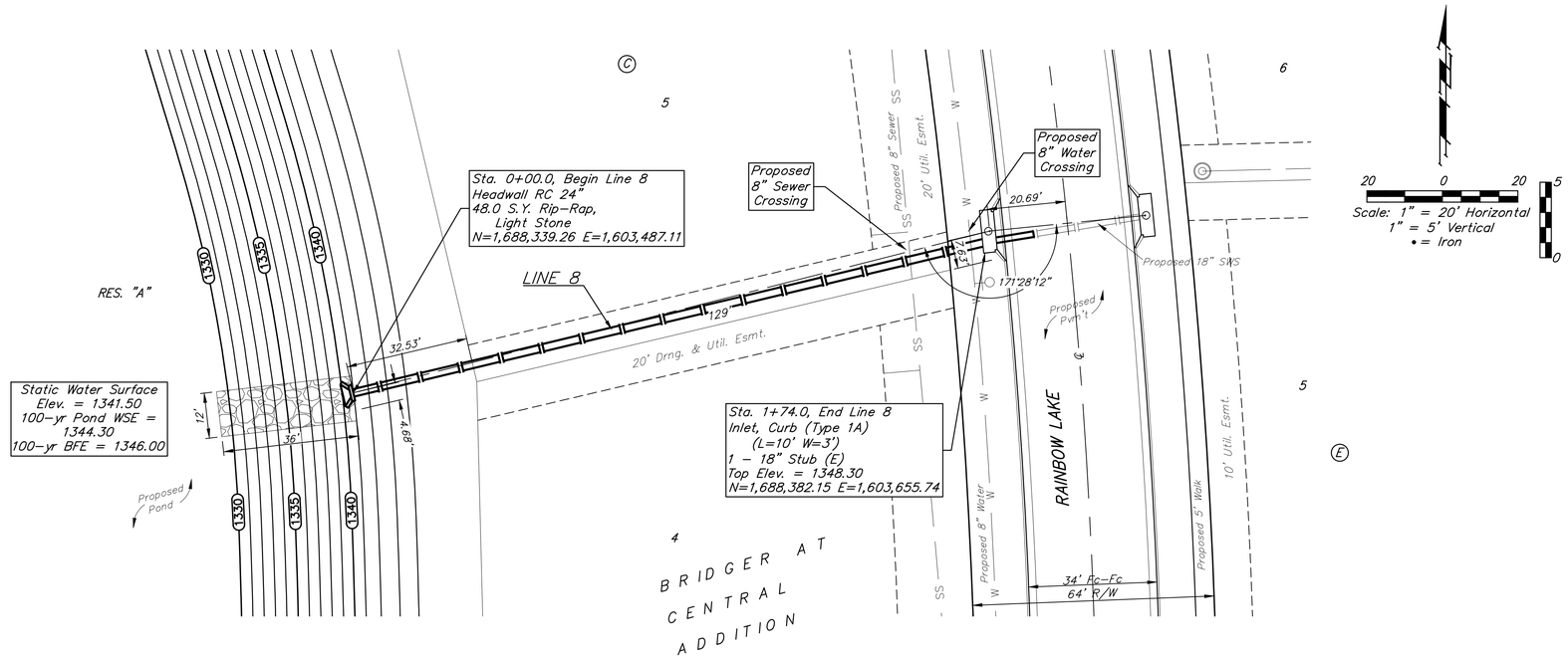

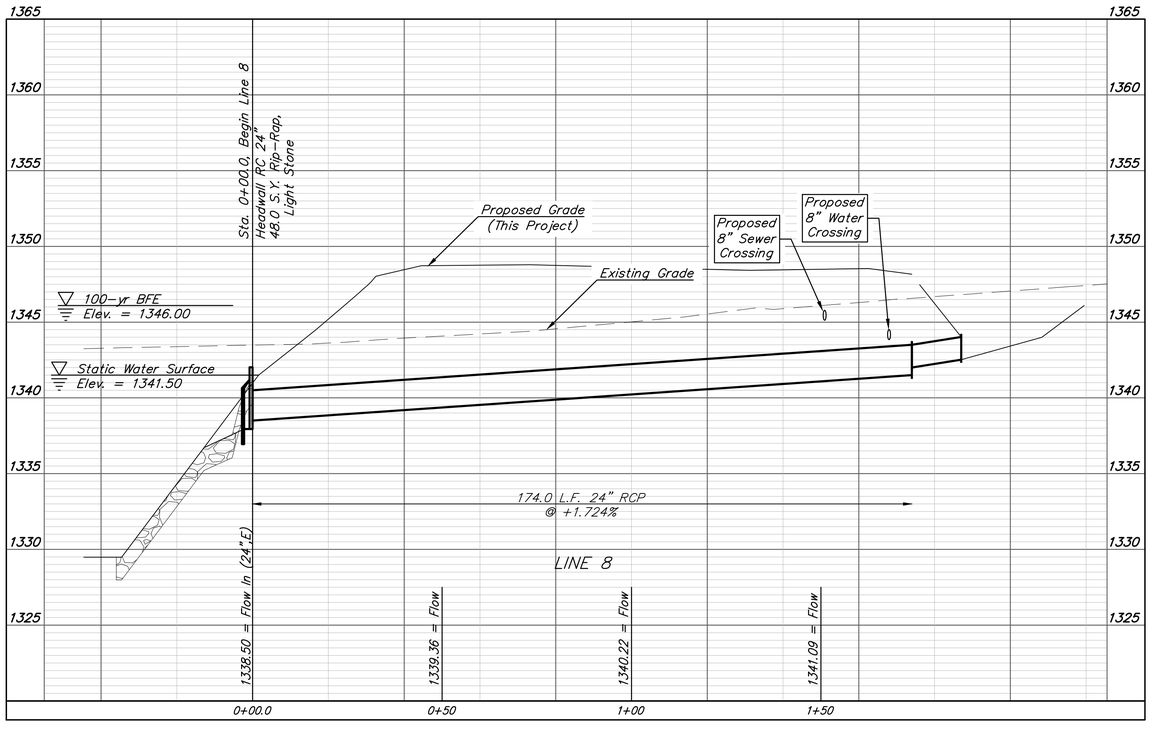

BRENT WOOTEN LICENSED
8470
09/03/2024
KANSAS
PROFESSIONAL ENGINEER

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315 Ellis St.
Wichita, KS 67211
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BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 8

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 8 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

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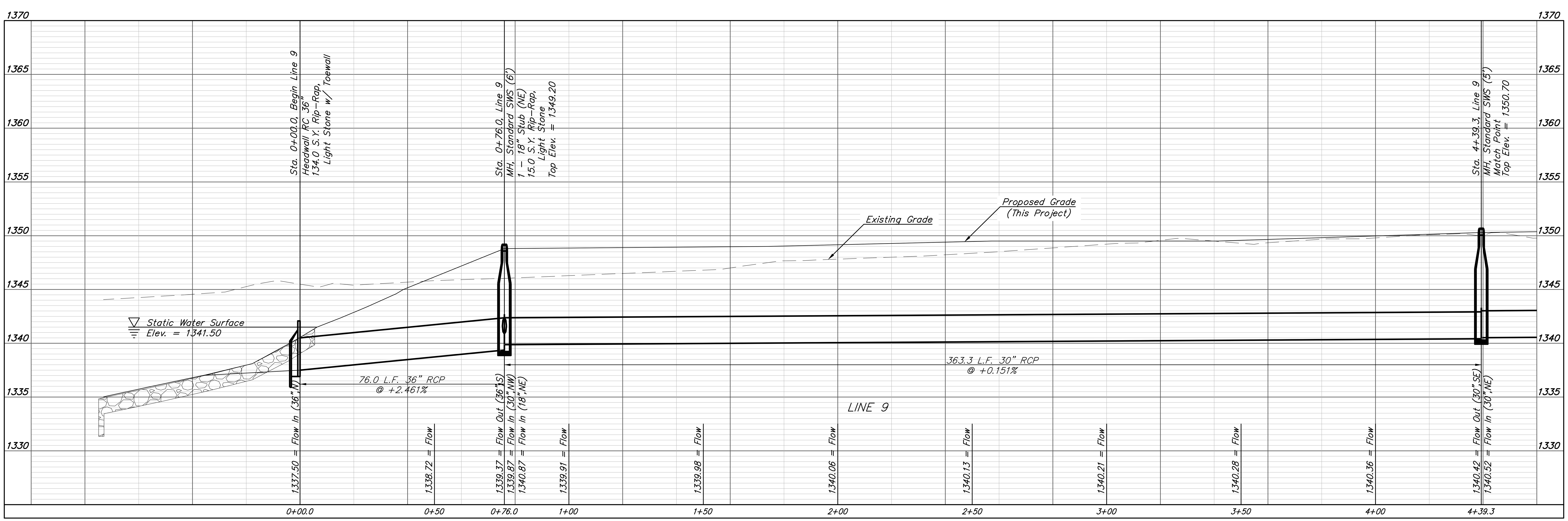
Travis Taylor, Cox Comm., Travis.taylor@cox.com

Trees in conflict with storm sewer construction to be removed by contractor. To be paid for as lump sum bid item "Site Clearing"

All other trees shall remain and be protected from damage during construction. Overhanging limbs shall be trimmed by the Contractor using a chain saw only as necessary for construction and with approval of the Engineer. Cost of tree trimming to be included in bid item "Site Clearing"

Fences in conflict with storm sewer construction to be removed by contractor. To be paid for as lump sum bid item "Site Clearing"

Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron



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BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 9

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

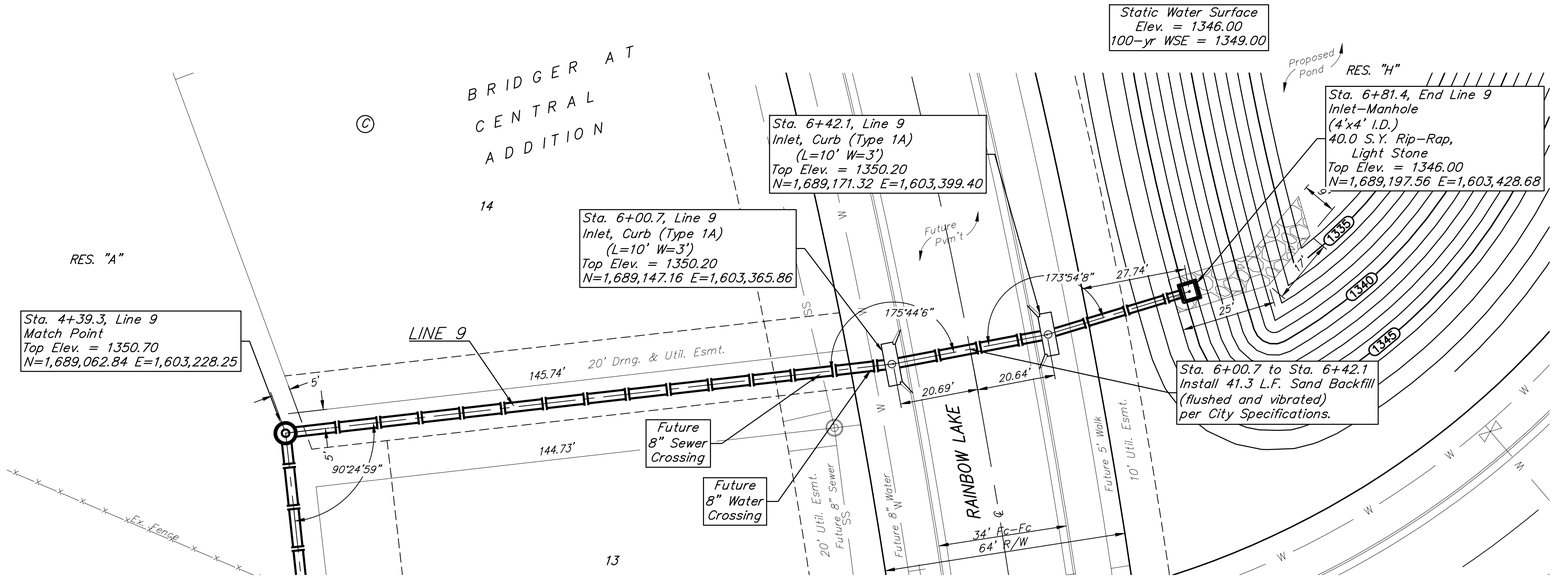
DESIGN: NBW DRAWN: TMS

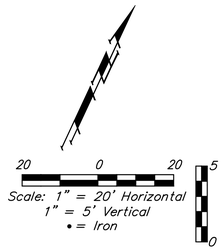
DATE: August 23, 2024

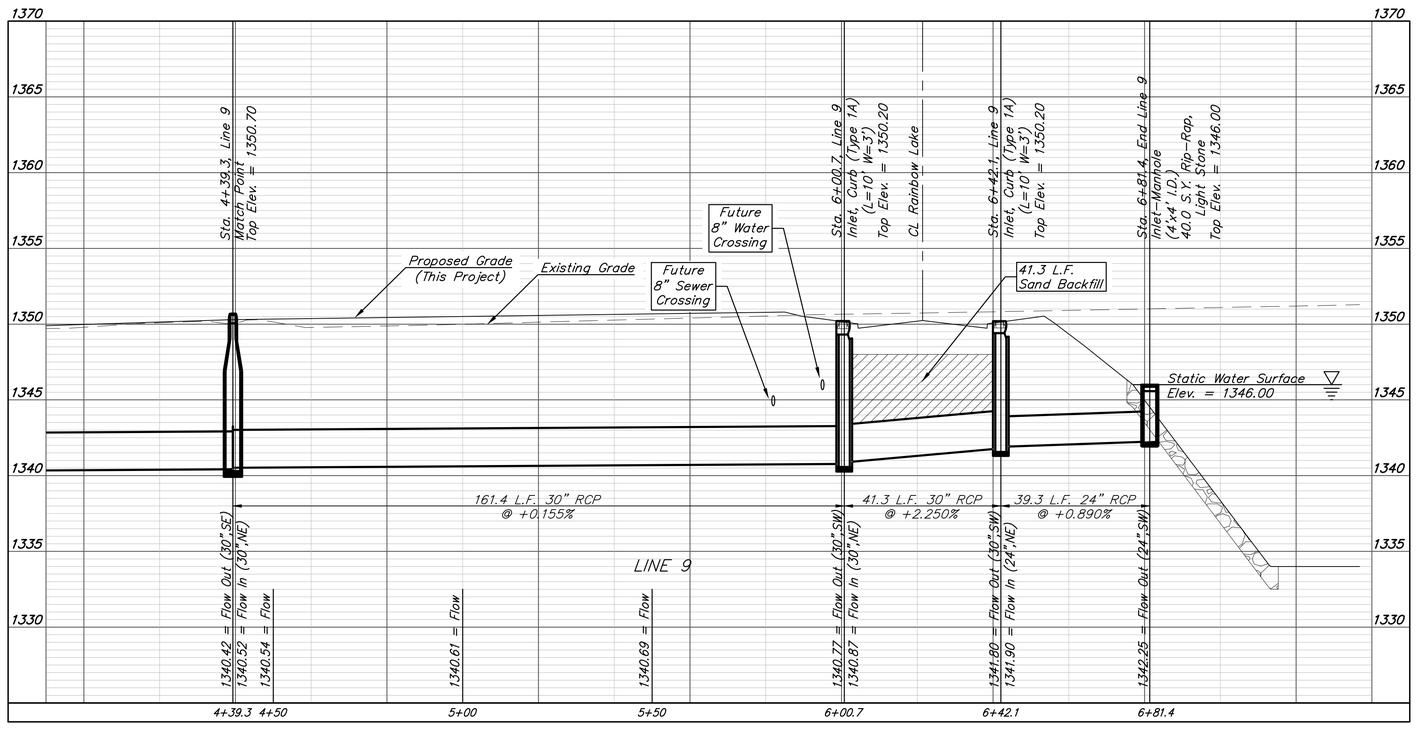
BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
Elev. = 1342.00 NAVD88

BM–#2: City of Wichita Benchmark disc, E side of N 135th St W, 13.2'± S. & 37.7'± E. of W1/4 Cor., Sec. 13, Twp. 27–S, R–2–W.
Elev. = 1347.48 NAVD88

Contact utility companies 3 weeks prior to construction to coordinate temporary removal/replacement.
Heide Bryan, Evergy, (316) 261–6354
Shannon Brinkmeyer, AT&T (316) 268–2931
Travis Taylor, Cox Comm., Travis.taylor@cox.com







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BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 9

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 10 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
Elev. = 1342.00 NAVD88

BM–#2: City of Wichita Benchmark disc, E side of N 135th St W, 13.2'± S. & 37.7'± E. of W1/4 Cor., Sec. 13, Twp. 27–S, R–2–W.
Elev. = 1347.48 NAVD88

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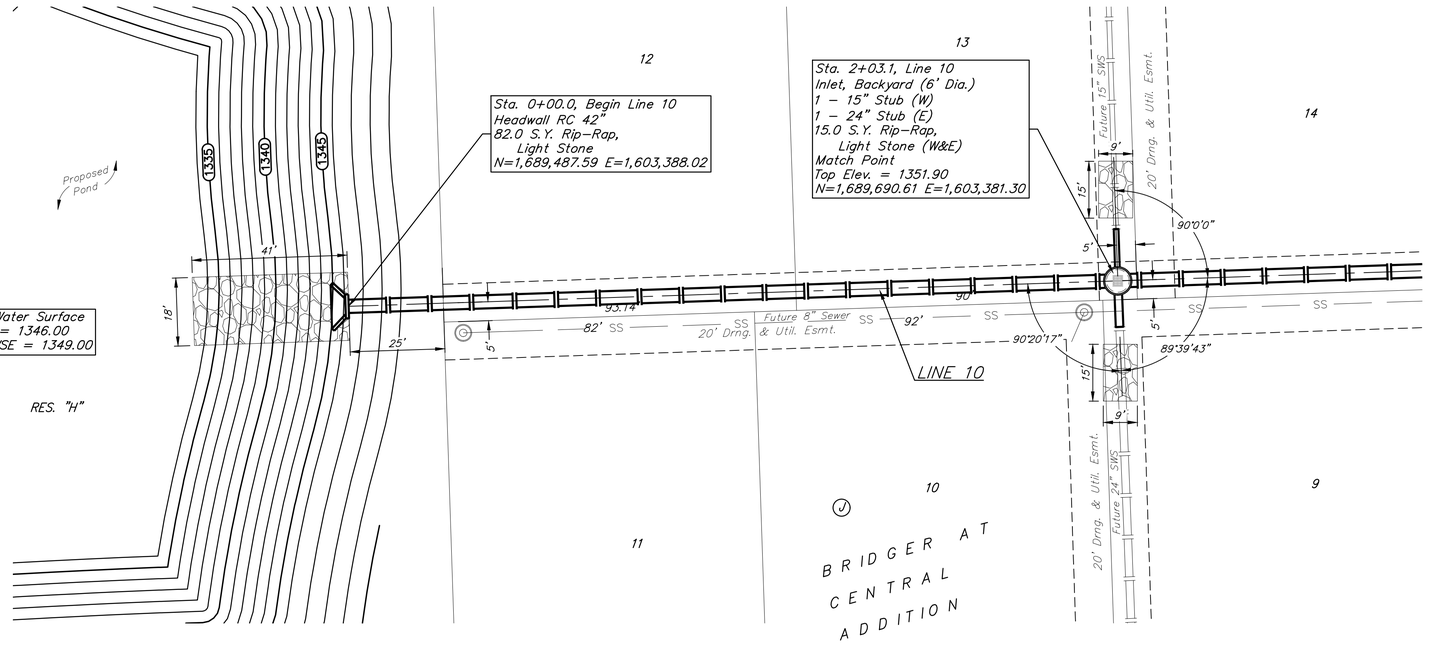

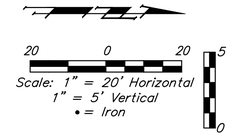

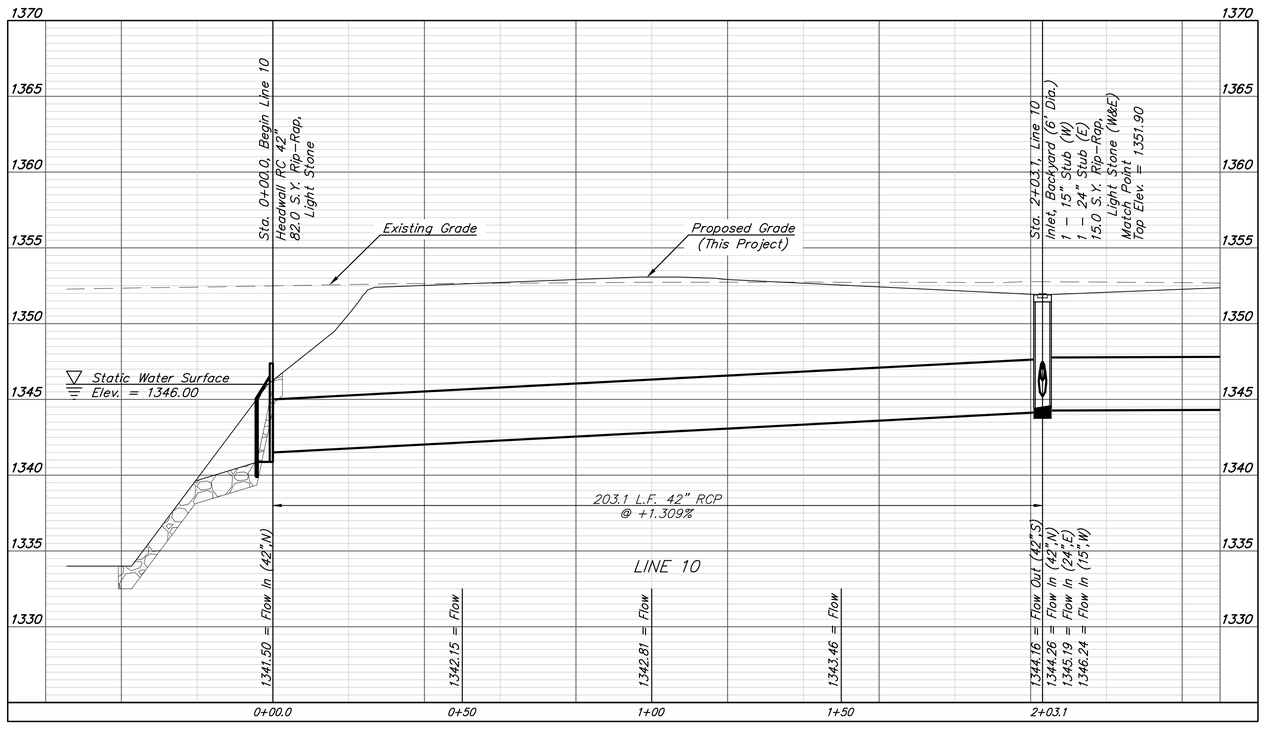

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PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
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BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 10

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 11 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_1\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
Elev. = 1342.00 NAVD88

BM-#2: City of Wichita Benchmark disc, E side of N 135th St W, 13.2'± S. & 37.7'± E. of W1/4 Cor., Sec. 13, Twp. 27-S, R-2-W.
Elev. = 1347.48 NAVD88

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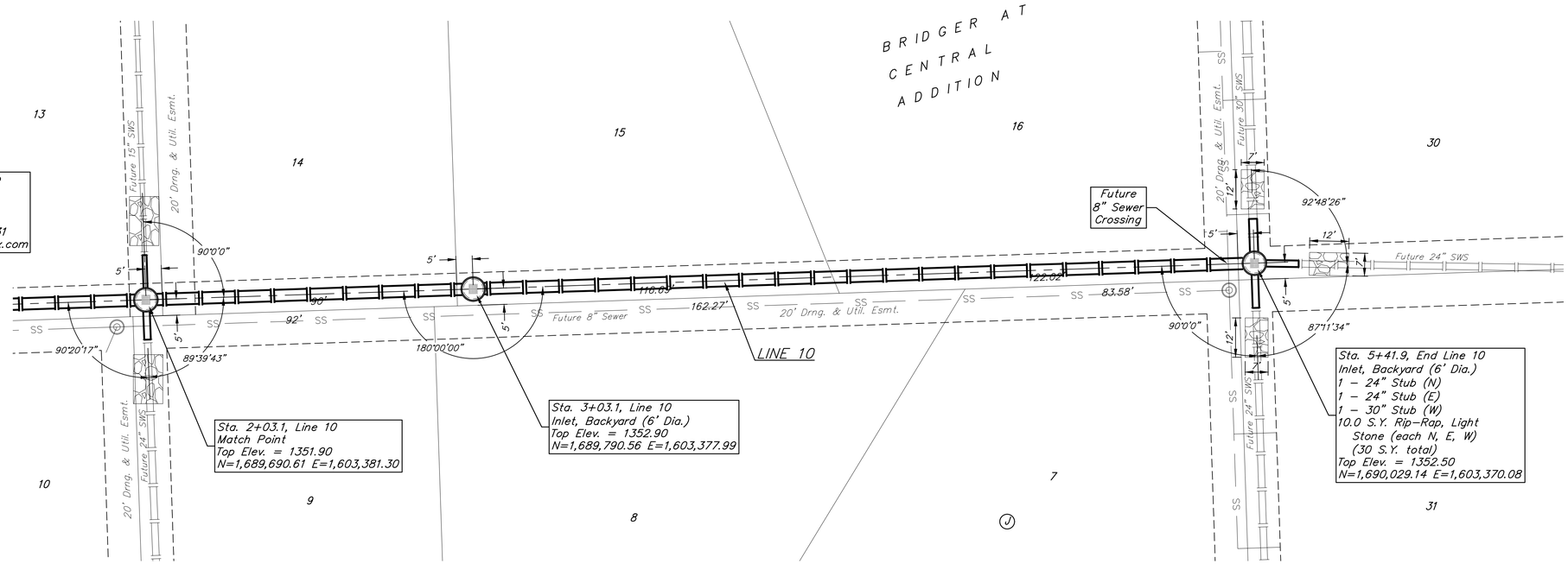
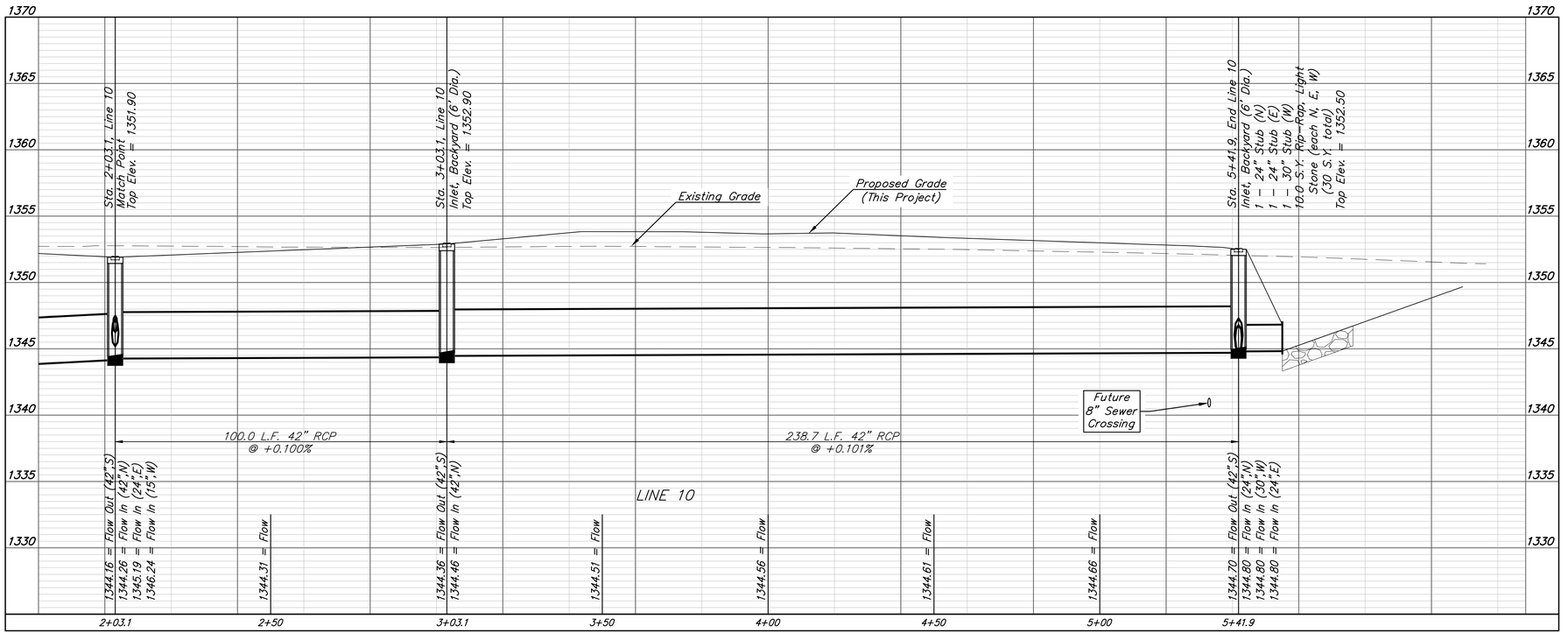


20 0 20 5
Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron
0



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316-262-7271
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BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 10

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 12 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_IEngineering\Phase 1\SWD_23-09-603\SWD.dwg

BENCHMARKS:
BM #1: "□" on top of curb inlet, NE Cor. N side of W Central Ave, 27.5'± S. & 90.2'± W. of SW Cor., Lot 1, Block 1, Castlegate 3rd.
Elev. = 1342.00 NAVD88

BM–#2: City of Wichita Benchmark disc, E side of N 135th St W, 13.2'± S. & 37.7'± E. of W1/4 Cor., Sec. 13, Twp. 27–S, R–2–W.
Elev. = 1347.48 NAVD88

Contact utility companies 3 weeks prior to construction to coordinate temporary removal/replacement.
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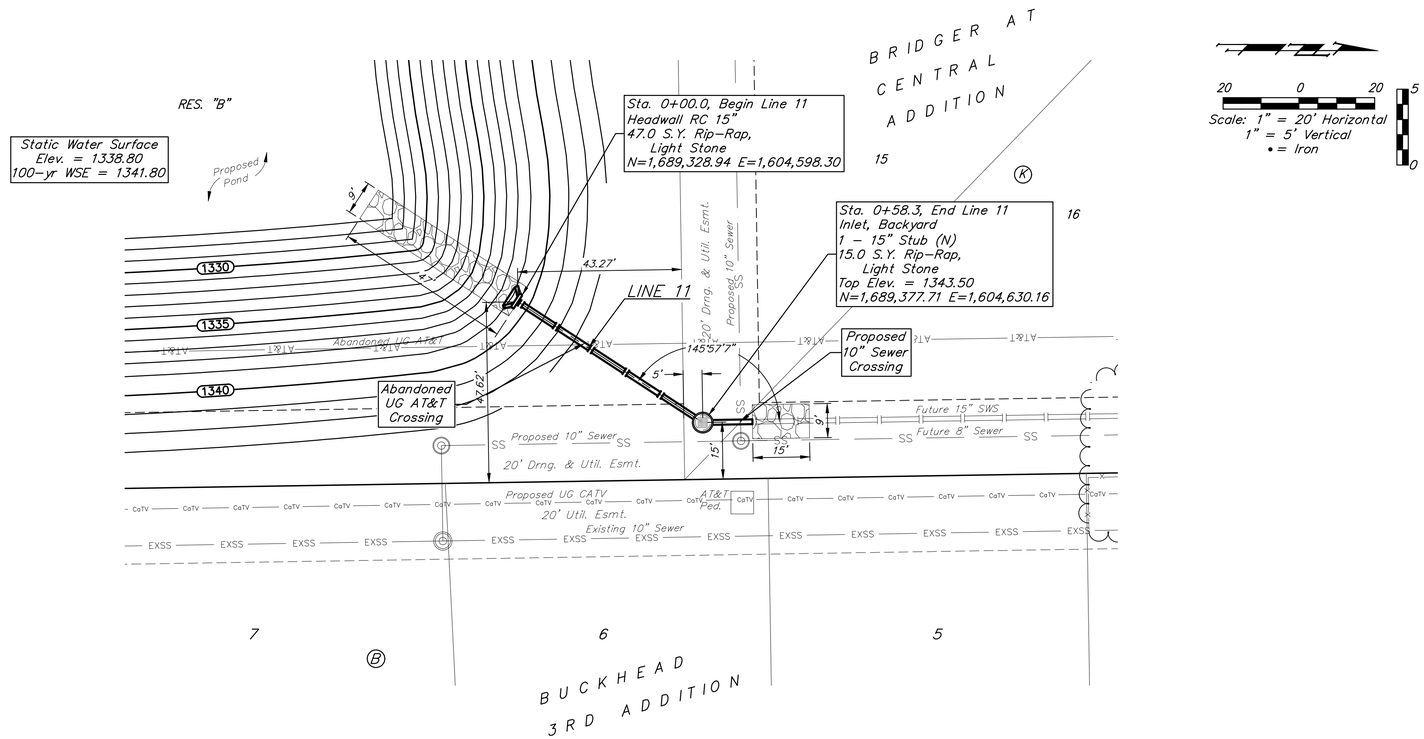
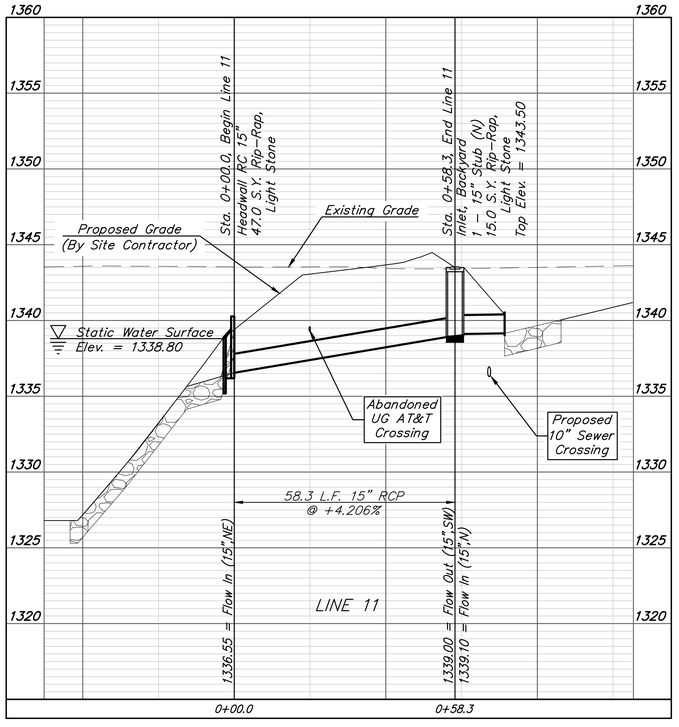
Shannon Brinkmeyer, AT&T (316) 268–2931
Travis Taylor, Cox Comm., Travis.taylor@cox.com



20 0 20
Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron



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KANSAS
PROFESSIONAL ENGINEER

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Wichita, KS 67211
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BRIDGER AT CENTRAL ADDITION - Ph. I

LINE 11

STORM WATER DRAIN IMPROVEMENTS

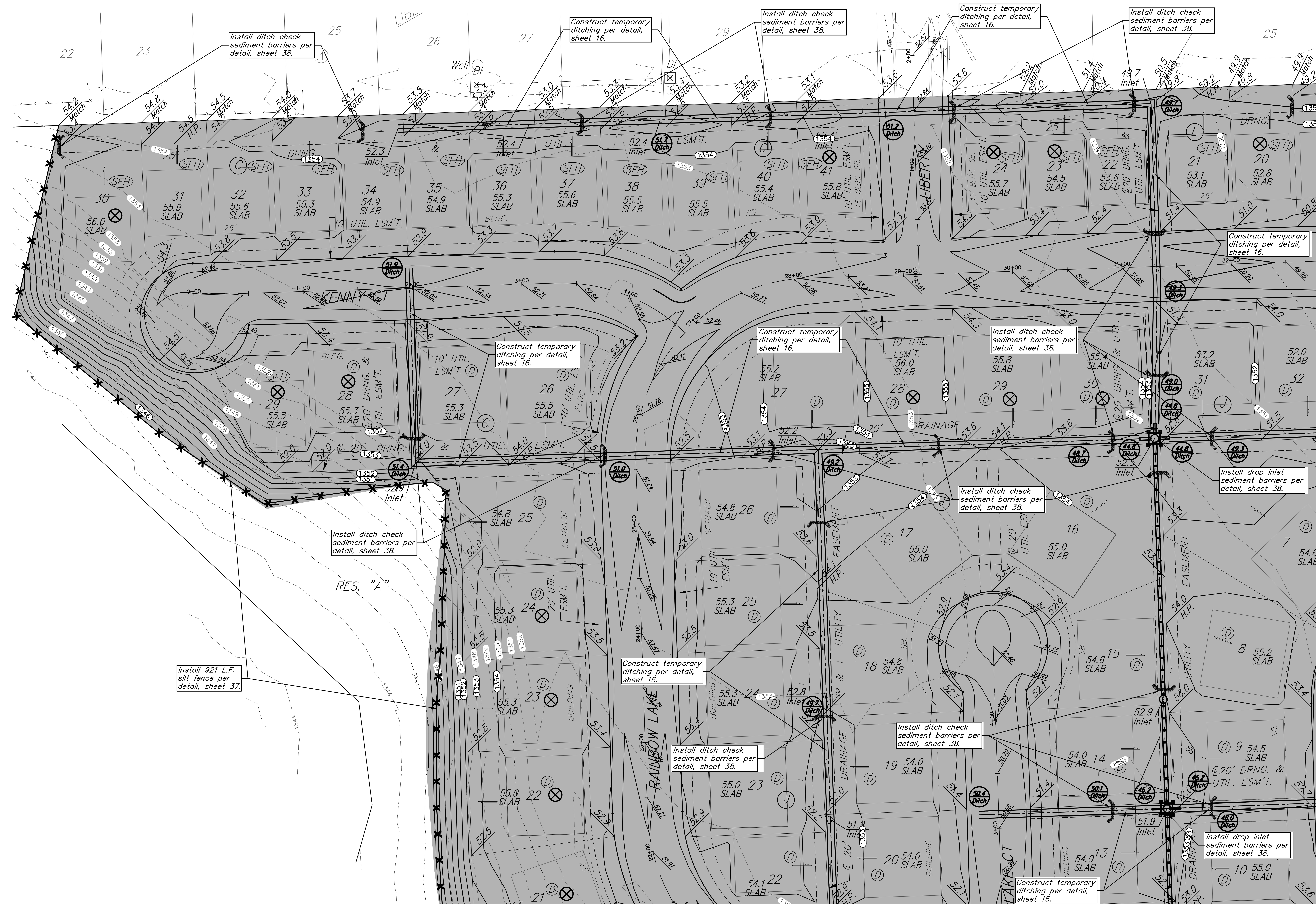
PROJECT NUMBER:
23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 27, 2024

SHEET 13 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_IEngineering\Phase 1\SWD_23-09-603\SWD.dwg



EROSION CONTROL PLAN LEGEND

- DROP INLET PROTECTION
- CURB INLET PROTECTION
- DITCH CHECKS
- SILT FENCING
- EROSION CONTROL BERM
- BACK OF CURB PROTECTION
- EROSION CONTROL MAT
- TEMPORARY DITCH
- 1345 Existing Grade
- 1345 Proposed Grade
- Area to be graded
- Compaction Testing Location
- 44.5 Ditch — Proposed Temp. Ditch Grade*

*Proposed temporary ditch grades shall take precedence over original spot grades when constructing ditches.

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09/03/2024
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

MASS GRADING PLAN

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: July 31, 2024

File: E:\Projects\Bridger At Central Addition(Albert)_Engineering\Phase 1\SWD_23-09-603\SWD.dwg

Construct temporary ditching per detail, sheet 16.

Install ditch check sediment barriers per detail, sheet 38.

Install 855 L.F. silt fence per detail, sheet 37.

Install curb inlet sediment barriers per detail, sheet 36.

RAINBOW LAKE

RAINBOW LAKE CT

SAMUEL

RES. "H"

Static Water Surface
Elev. = 1346.00
100-yr WSE = 1349.00

50.7 SWSMH

Scale: 1"=40'

EROSION CONTROL PLAN LEGEND

- DROP INLET PROTECTION
- CURB INLET PROTECTION
- DITCH CHECKS
- SILT FENCING
- EROSION CONTROL BERM
- BACK OF CURB PROTECTION
- EROSION CONTROL MAT
- TEMPORARY DITCH
- Existing Grade
- Proposed Grade
- Area to be graded
- Compaction Testing Location
- Proposed Temp. Ditch Grade*

*Proposed temporary ditch grades shall take precedence over original spot grades when constructing ditches.

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BAUGHMAN COMPANY
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Wichita, KS 67211
316-262-7271
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BRIDGER AT CENTRAL ADDITION - Ph. I

MASS GRADING PLAN

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 15 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_Engineering\Phase 1\SWD_23-09-603\SWD.dwg

EARTH WORK TOTALS

	C.Y. Excavation	C.Y. Compacted Fill
Mass Grading	18,615	161,274
Pond 1 Construction	16,900	1,514
Pond 2 Construction	28,303	104
Pond 3 Construction	123,085	897
Total	186,903	163,789

1. Earthwork fill quantities are unadjusted and are for reference only. Excavation for mass grading and pond construction work to be paid for as C.Y. Excavation. All cost associated with fill & compaction shall be incidental to lump sum bid item "Grading, Mass". With correction factors of 0.85*excavation and 1.15*fill, Contractor Borrow is expected to be approximately 28,843 CY and shall be included in the C.Y. bid item, "Excavation, Borrow". This will be available adjacent to the site at the area of the future pond, just south of Lots 5–14, Block B, Bridger at Central.

2. Contractor to strip top 4–6" of soil within street right–of–way, areas of proposed ponds & building pad areas before mass grading and stockpile. Topsoil & dirt piles may be spread outside of building pads and proposed pavement prior to seeding.

3. Compaction of 95% Standard Proctor Density shall be obtained in all areas. Fill from on–site excavation shall be placed in 8" maximum thickness lifts within 0% to +4% of optimum moisture content of the soil at the time of placement. All testing shall be incidental to Lump Sum bid item "Testing". Pulverize clods used in fills and for pond liner to 1/2" or less during or prior to placing fills. See geotechnical report for more details. The geotechnical report is available upon request from the engineer.

4. It shall be the Contractor's responsibility to protect existing utilities during mass grading. Any damage done to these systems by Contractor or subcontractor shall be repaired at no additional cost to the project.

5. All areas disturbed during construction (except building pads) shall be seeded, mulched, and fertilized as per Cover Sheet General Notes. The approximate seeding area is 60.0 acres.

6. Building pads will be filled up to 12" below slab elevation per detail, this sheet. The pads shall be made with best on–site LVC material as defined in the geotechnical report per the detail on sheet 35. The pads shall be compacted and moisture tested in fill areas every 12" in fill height. See table on sheet 21 for locations and elevations for testing.

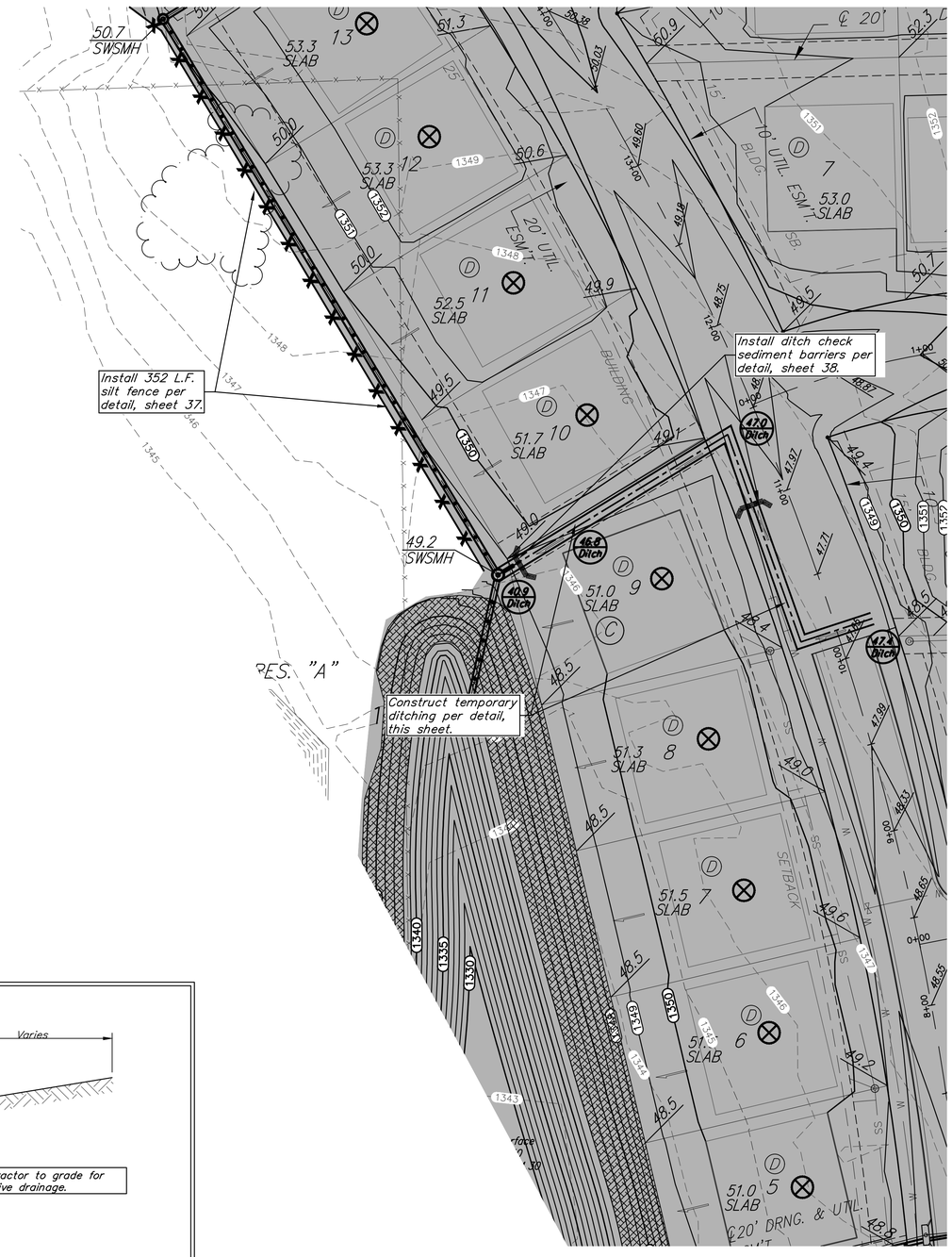
7. Street elevations shown on mass grading plan are top of rock (bottom of asphalt) at centerline. Grade points around cul–de–sac bulbs are located 1' behind the back of proposed curb.

8. Only trees within the street R/W, areas of proposed ponds, or in vicinity of existing house near south side of plat may be removed if necessary for grading. All other trees shall be protected from damage.

DEMOLITION NOTES:

1. All costs for the removal of the on–site house/buildings/foundations including septic lateral field shall be included in the bid item, "Removal of Existing Structures." The house removal shall include all items within 15' of the outside of the house. The Developer will disconnect the electricity and propane lines prior to construction. The Contractor shall remove all other existing structures, fences, footings, foundations, steps, plumbing, utility service poles and lines, windmill and all other miscellaneous items as a part of the "Site Clearing" bid item. Two water wells to be capped by KDHE certified contractor using KDHE standard well abandonment procedures. Septic lateral field to be overexcavated and soil recompacted as noted. House foundations to be removed and recompacted. West barn has been removed prior to construction. Other out building to be removed.
2. Basement under existing structures shall be filled and compacted at no extra cost to the project.
3. The Contractor shall remove all remnants of demolition and all other miscellaneous debris found on this site.
4. The Contractor shall dispose of the removed materials in a safe, legal, and responsible manner.
5. Existing utility service lines shall be abandoned as indicated on the plans by others prior to construction. Gas meters, utility pedestals, overhead lines, and utility poles remaining on this site shall be removed and disposed of by the Contractor.
6. All costs of demolition and disposal of removed materials shall be included in the "Site Clearing" bid item

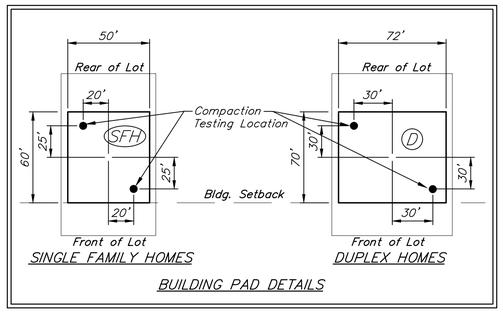
Construct building pad on each lot as shown at pad elevations indicated on this plan. Top of best on–site LVC pad elevations are 12" below slab elevations. (See detail, sheet 35).



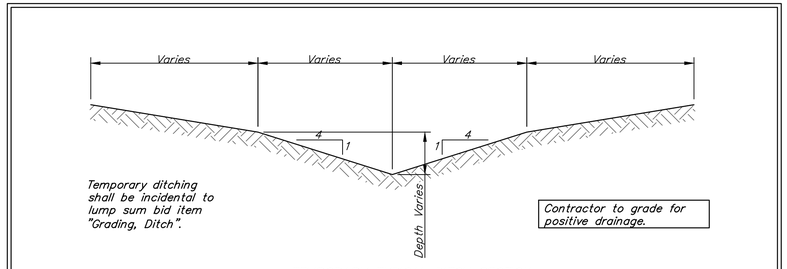
EROSION CONTROL MEASURE	INSTALL	MAINTAIN	REMOVE
BACK OF CURB PROTECTION (LF)	0	0	0
CONSTRUCTION ENTRANCE (EA)	1	0	0
CURB INLET BARRIER (EA)	10	0	0
DITCH CHECK (EA)	63	0	0
DROP INLET PROTECTION (EA)	4	0	0
EROSION CONTROL (LS)	0	0	0
EROSION CONTROL BERM (LF)	2,500	0	0
SILT FENCE (LF)	5,017	0	0
EROSION CONTROL MAT (SY)	14,914	0	0

QUANTITIES ARE FOR INFORMATION ONLY! CONTRACTOR SHALL VERIFY QUANTITIES PER FINAL BID QUANTITY SHEET.

* ALL EXISTING BMPs INCLUDING CONSTRUCTION ENTRANCE, SEDIMENT BARRIERS, SILT FENCE, EROSION CONTROL BERM, AND EROSION CONTROL MAT SHALL BE MAINTAINED AND REPAIRED IF NECESSARY. REPLACEMENT OR REMOVAL OF EROSION CONTROL MEASURES TO BE PAID FOR BY L.S. BID ITEM "MAINTAIN EXISTING EROSION CONTROL BMPs"



BUILDING PAD DETAILS



TEMPORARY TYPICAL DITCH SECTION
NOT TO SCALE

40 0 40

Scale: 1"=40'

EROSION CONTROL PLAN LEGEND

- DROP INLET PROTECTION
- CURB INLET PROTECTION
- DITCH CHECKS
- SILT FENCING
- EROSION CONTROL BERM
- BACK OF CURB PROTECTION
- EROSION CONTROL MAT
- TEMPORARY DITCH
- 1345 Existing Grade
- (1345) Proposed Grade
- Area to be graded
- Compaction Testing Location
- 44.5 Ditch Proposed Temp. Ditch Grade*

*Proposed temporary ditch grades shall take precedence over original spot grades when constructing ditches.

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BAUGHMAN COMPANY
315 Ellis St.
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BRIDGER AT CENTRAL ADDITION - Ph. I

MASS GRADING PLAN

STORM WATER DRAIN IMPROVEMENTS

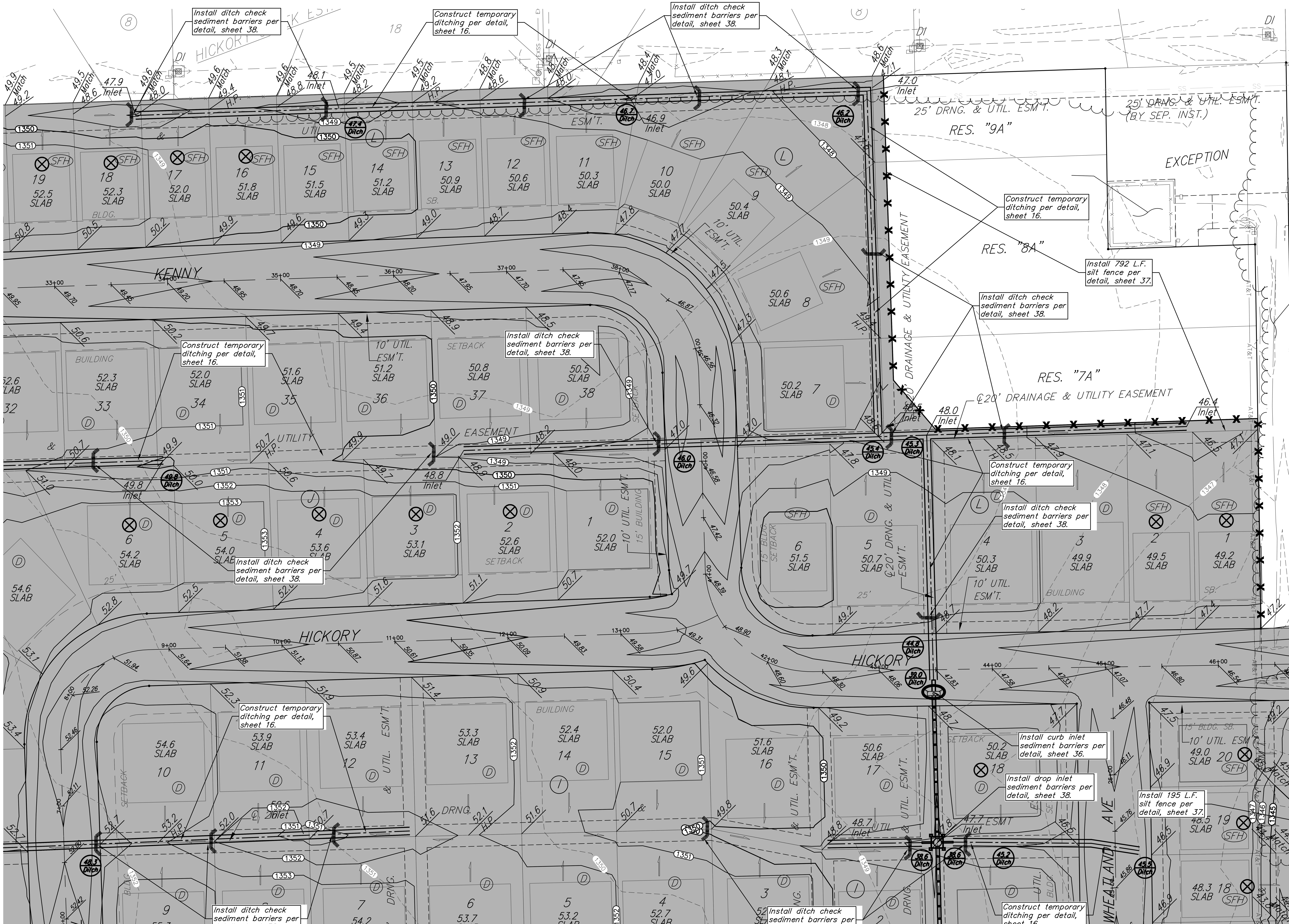
PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 16 OF 53

File: E:\Projects\Bridger At Central Addition(Albert) \Engineering\Phase 1\SWD 23-09-603\SWD.dwg



Scale: 1"=40'

EROSION CONTROL PLAN LEGEND

- DROP INLET PROTECTION
- CURB INLET PROTECTION
- DITCH CHECKS
- SILT FENCING
- EROSION CONTROL BERM
- BACK OF CURB PROTECTION
- EROSION CONTROL MAT
- TEMPORARY DITCH

1345 — Existing Grade

(1345) — Proposed Grade

Area to be graded

Compaction Testing Location

44.5 Ditch — Proposed Temp. Ditch Grade*

*Proposed temporary ditch grades shall take precedence over original spot grades when constructing ditches.

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BRIDGER AT CENTRAL ADDITION - Ph. I

MASS GRADING PLAN

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: July 31, 2024

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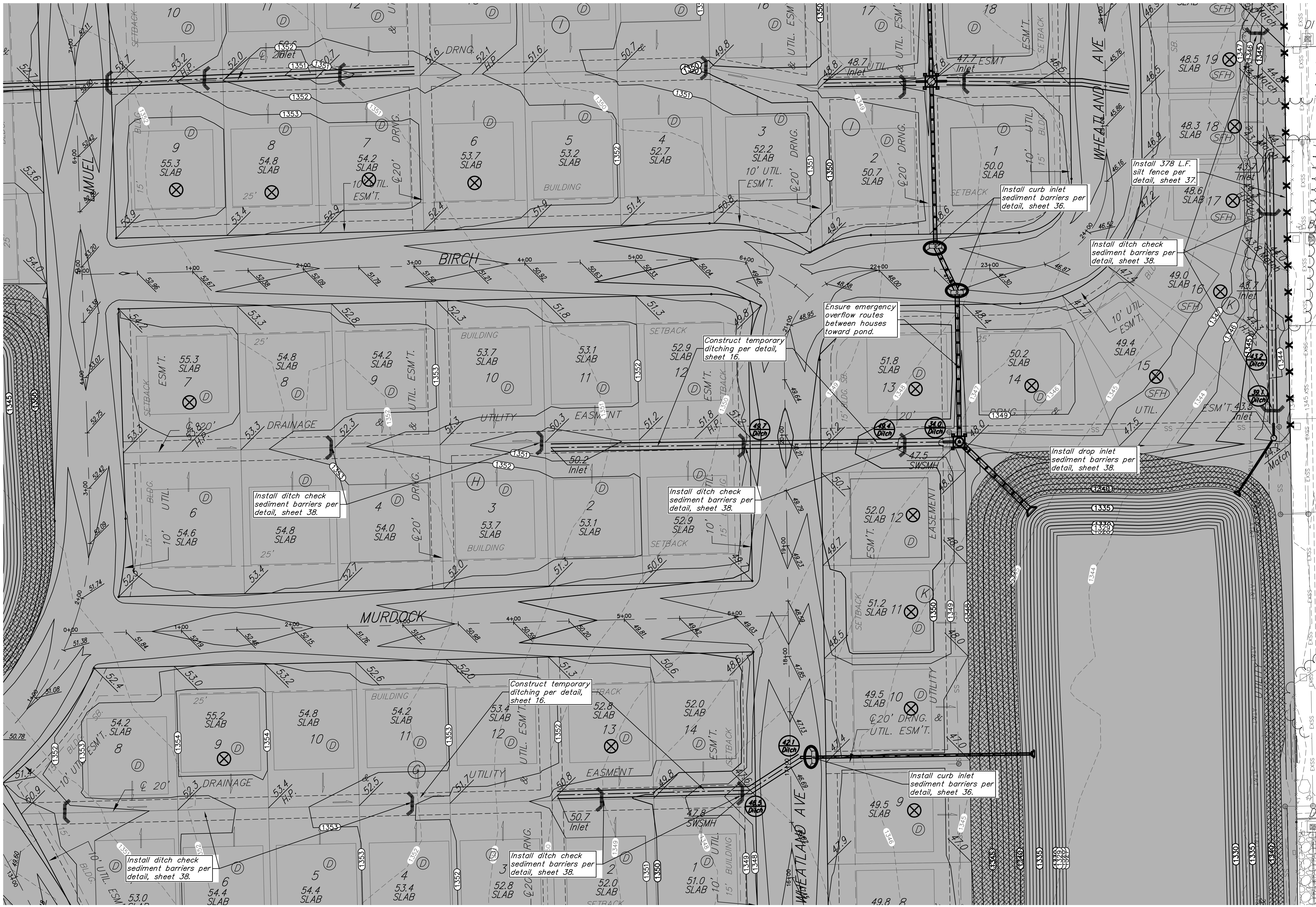

EROSION CONTROL PLAN LEGEND

- DROP INLET PROTECTION
- CURB INLET PROTECTION
- DITCH CHECKS
- SILT FENCING
- EROSION CONTROL BERM
- BACK OF CURB PROTECTION
- EROSION CONTROL MAT
- TEMPORARY DITCH

1345 Existing Grade

(1345) Proposed Grade

Area to be graded

Compaction Testing Location

Proposed Temp. Ditch Grade*

*Proposed temporary ditch grades shall take precedence over original spot grades when constructing ditches.

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BRIDGER AT CENTRAL ADDITION - Ph. I

MASS GRADING PLAN

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 18 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

Construct temporary ditching per detail, sheet 16.

Ensure emergency overflow routes between houses toward pond.

Install curb inlet sediment barriers per detail, sheet 36.

Install ditch check sediment barriers per detail, sheet 38.

Construct temporary ditching per detail, sheet 16.

Install curb inlet sediment barriers per detail, sheet 36.

Install ditch check sediment barriers per detail, sheet 38.

Static Water Surface
Elev. = 1338.80
100-yr WSE = 1341.80

40 0 40

Scale: 1"=40'

EROSION CONTROL PLAN LEGEND

- DROP INLET PROTECTION
- CURB INLET PROTECTION
- DITCH CHECKS
- SILT FENCING
- EROSION CONTROL BERM
- BACK OF CURB PROTECTION
- EROSION CONTROL MAT
- TEMPORARY DITCH
- 1345 Existing Grade
- 1345 Proposed Grade
- Area to be graded
- Compaction Testing Location
- 44.5 Ditch Proposed Temp. Ditch Grade*

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BRIDGER AT CENTRAL ADDITION - Ph. I

MASS GRADING PLAN

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 19 OF 53

File: E:\Projects\Bridger At Central Addition\Albert_1\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

Install curb inlet sediment barriers per detail, sheet 35.

Install curb inlet sediment barriers per detail, sheet 36.

Construct temporary ditching per detail, sheet 16.

Install ditch check sediment barriers per detail, sheet 38.

Construct temporary ditching per detail, sheet 16.

Install ditch check sediment barriers per detail, sheet 38.

Install 464 L.F. silt fence per detail, sheet 37.

Install 188 L.F. silt fence per detail, sheet 37.

Install 50'x12' gravel construction entrance per detail, sheet 36.

Septic lateral field.

Two existing water wells.

Install 872 L.F. silt fence per detail, sheet 37.

Existing wood fence to be protected from damage.

THORTON

RAINBOW LAKE CT

WHEATLAND CT

W CENTRAL AVE

10' KG&E GRANT OF R/W (DOC.#/FLM-PG: 29405412)

40 0 40

Scale: 1"=40'

EROSION CONTROL PLAN LEGEND

- DROP INLET PROTECTION
- CURB INLET PROTECTION
- DITCH CHECKS
- SILT FENCING
- EROSION CONTROL BERM
- BACK OF CURB PROTECTION
- EROSION CONTROL MAT
- TEMPORARY DITCH
- 1345 Existing Grade
- 1345 Proposed Grade
- Area to be graded
- Compaction Testing Location
- 44.5 Ditch Proposed Temp. Ditch Grade*

*Proposed temporary ditch grades shall take precedence over original spot grades when constructing ditches.

BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY

315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

MASS GRADING PLAN

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 27, 2024

SHEET 20 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_Engineering\Phase 1\SWD_23-09-603\SWD.dwg

	Location		Top of LVC	EX	Compaction % and Test Elevation													
Lot	Northing	Easting	Fill Elev.	ELEV	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355
Wheatland Ct.	1,687,949	1,604,628	43.60	41.80			X	X	X	X	X	X	X	X	X	X	X	X
Wheatland Ct. CDS	1,687,942	1,604,330	46.10	43.70	X	X				X	X	X	X	X	X	X	X	X
3C	1,688,210	1,603,588	48.5	45.9	X	X	X	X				X	X	X	X	X	X	X
4C	1,688,299	1,603,585	48.8	45.1	X	X	X	X				X	X	X	X	X	X	X
5C	1,688,409	1,603,579	49.5	45.7	X	X	X	X					X	X	X	X	X	X
6C	1,688,490	1,603,556	50.0	45.7	X	X	X	X					X	X	X	X	X	X
7C	1,688,572	1,603,538	50.0	46.6	X	X	X	X	X				X	X	X	X	X	X
8C	1,688,654	1,603,519	49.8	46.5	X	X	X	X	X				X	X	X	X	X	X
9C	1,688,735	1,603,497	49.5	46.5	X	X	X	X	X				X	X	X	X	X	X
10C	1,688,836	1,603,457	50.2	46.9	X	X	X	X	X					X	X	X	X	X
11C	1,688,911	1,603,411	51.0	47.8	X	X	X	X	X	X				X	X	X	X	X
12C	1,688,985	1,603,370	51.8	49.7	X	X	X	X	X	X	X	X			X	X	X	X
13C	1,689,064	1,603,320	51.8	49.8	X	X	X	X	X	X	X	X			X	X	X	X
16C	1,689,281	1,603,129	53.0	51.1	X	X	X	X	X	X	X	X	X	X		X	X	X
18C	1,689,401	1,602,998	51.5	50.0	X	X	X	X	X	X	X	X	X		X	X	X	X
19C	1,689,460	1,602,938	52.0	49.7	X	X	X	X	X	X	X	X			X	X	X	X
20C	1,689,514	1,602,878	52.5	49.5	X	X	X	X	X	X	X	X				X	X	X
21C	1,689,619	1,602,823	53.0	50.0	X	X	X	X	X	X	X	X	X			X	X	X
22C	1,689,697	1,602,808	53.5	51.7	X	X	X	X	X	X	X	X	X	X			X	X
23C	1,689,786	1,602,805	53.8	52.0	X	X	X	X	X	X	X	X	X	X	X		X	X
28C	1,690,068	1,602,641	53.8	52.4	X	X	X	X	X	X	X	X	X	X	X		X	X
29C	1,690,054	1,602,568	54.0	50.0	X	X	X	X	X	X	X	X	X				X	X
30C	1,690,222	1,602,414	54.5	53.0	X	X	X	X	X	X	X	X	X	X	X	X		X
41C	1,690,273	1,603,081	54.3	52.4	X	X	X	X	X	X	X	X	X	X	X			X
1D	1,687,856	1,604,561	45.3	42.4	X				X	X	X	X	X	X	X	X	X	X
2D	1,687,854	1,604,493	44.8	42.6	X			X	X	X	X	X	X	X	X	X	X	X
3D	1,687,853	1,604,433	45.5	42.9	X				X	X	X	X	X	X	X	X	X	X
4D	1,687,851	1,604,373	46.1	43.5	X	X				X	X	X	X	X	X	X	X	X
5D	1,687,833	1,604,305	46.5	44.1	X	X	X			X	X	X	X	X	X	X	X	X
6D	1,687,893	1,604,234	47.0	45.0	X	X	X	X		X	X	X	X	X	X	X	X	X
7D	1,687,990	1,604,234	47.0	45.2	X	X	X	X		X	X	X	X	X	X	X	X	X
8D	1,688,043	1,604,296	47.0	44.6	X	X	X			X	X	X	X	X	X	X	X	X
9D	1,688,032	1,604,366	46.1	43.6	X	X				X	X	X	X	X	X	X	X	X
10D	1,688,033	1,604,423	45.5	43.1	X	X			X	X	X	X	X	X	X	X	X	X
11D	1,688,035	1,604,485	44.8	42.7	X			X	X	X	X	X	X	X	X	X	X	X
12D	1,688,037	1,604,556	45.3	42.4	X				X	X	X	X	X	X	X	X	X	X
13D	1,688,159	1,604,553	44.9	43.0	X	X		X	X	X	X	X	X	X	X	X	X	X
14D	1,688,157	1,604,466	45.1	43.5	X	X			X	X	X	X	X	X	X	X	X	X
15D	1,688,154	1,604,366	46.1	44.5	X	X	X			X	X	X	X	X	X	X	X	X
1E	1,688,347	1,604,117	48.7	47.3	X	X	X	X	X	X		X	X	X	X	X	X	X
2E	1,688,334	1,604,035	49.7	47.8	X	X	X	X	X	X			X	X	X	X	X	X
3E	1,688,332	1,603,942	50.5	48.6	X	X	X	X	X	X	X			X	X	X	X	X
4E	1,688,329	1,603,849	50.3	48.8	X	X	X	X	X	X	X			X	X	X	X	X
7E	1,688,463	1,603,845	50.7	49.2	X	X	X	X	X	X	X	X		X	X	X	X	X
8E	1,688,465	1,603,933	50.5	48.8	X	X	X	X	X	X	X			X	X	X	X	X
9E	1,688,467	1,604,026	49.9	47.7	X	X	X	X	X	X			X	X	X	X	X	X
10E	1,688,470	1,604,121	49.3	47.2	X	X	X	X	X	X			X	X	X	X	X	X

X = No testing required at this elevation.

	Location		Top of LVC	EX	Compaction % and Test Elevation													
Lot	Northing	Easting	Fill Elev.	ELEV	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1356
1F	1,688,664	1,604,121	49.3	46.8	X	X	X	X	X				X	X	X	X	X	X
2F	1,688,661	1,604,022	49.9	47.7	X	X	X	X	X	X			X	X	X	X	X	X
3F	1,688,659	1,603,918	51.0	49.2	X	X	X	X	X	X	X	X		X	X	X	X	X
6F	1,688,783	1,603,704	52.2	50.5	X	X	X	X	X	X	X	X	X			X	X	X
9F	1,688,791	1,604,019	50.0	48.5	X	X	X	X	X	X	X		X	X	X	X	X	X
10F	1,688,794	1,604,118	49.0	47.5	X	X	X	X	X	X		X	X	X	X	X	X	X
9G	1,689,111	1,603,679	53.7	52.3	X	X	X	X	X	X	X	X	X	X	X		X	X
13G	1,689,116	1,604,022	51.3	48.0	X	X	X	X	X	X	X				X	X	X	X
7H	1,689,430	1,603,642	53.8	52.2	X	X	X	X	X	X	X	X	X	X	X	X		X
6I	1,689,636	1,603,907	52.2	50.7	X	X	X	X	X	X	X	X	X				X	X
7I	1,689,633	1,603,813	52.7	51.3	X	X	X	X	X	X	X	X	X	X			X	X
8I	1,689,631	1,603,724	53.3	51.5	X	X	X	X	X	X	X	X	X	X				X
9I	1,689,629	1,603,632	53.8	51.9	X	X	X	X	X	X	X	X	X	X				X
10I	1,689,771	1,603,637	53.1	51.3	X	X	X	X	X	X	X	X	X	X				X
18I	1,689,760	1,604,372	48.7	46.8	X	X	X	X	X			X	X	X	X	X	X	X
2J	1,689,978	1,603,941	51.1	49.5	X	X	X	X	X	X	X	X				X	X	X
3J	1,689,975	1,603,857	51.6	49.6	X	X	X	X	X	X	X	X				X	X	X
4J	1,603,773	1,603,773	52.1	49.8	X	X	X	X	X	X	X	X					X	X
5J	1,689,969	1,603,689	52.5	50.0	X	X	X	X	X	X	X	X	X				X	X
6J	1,689,966	1,603,595	52.7	50.7	X	X	X	X	X	X	X	X	X				X	X
28J	1,603,595	1,603,142	54.5	53.0	X	X	X	X	X	X	X	X	X	X	X	X		X
29J	1,690,084	1,603,231	54.3	52.4	X	X	X	X	X	X	X	X	X	X	X	X		X
30J	1,690,087	1,603,324	53.9	51.9	X	X	X	X	X	X	X	X	X	X	X		X	X
1K	1,688,331	1,604,302	47.5	45.8	X	X	X	X			X	X	X	X	X	X	X	X
2K	1,688,429	1,604,300	48.2	45.8	X	X	X	X				X	X	X	X	X	X	X
3K	1,688,516	1,604,299	48.8	45.8	X	X	X	X				X	X	X	X	X	X	X
4K	1,688,598	1,604,298	48.5	45.8	X	X	X	X				X	X	X	X	X	X	X
5K	1,688,685	1,604,296	47.7	45.4	X	X	X	X			X	X	X	X	X	X	X	X
6K	1,688,778	1,604,295	47.7	45.8	X	X	X	X			X	X	X	X	X	X	X	X
7K	1,688,867	1,604,294	48.3	46.0	X	X	X	X	X			X	X	X	X	X	X	X
8K	1,688,951	1,604,292	48.3	46.0	X	X	X	X	X				X	X	X	X	X	X
9K	1,689,039	1,604,291	48.0	45.8	X	X	X	X				X	X	X	X	X	X	X
10K	1,689,132	1,604,290	48.0	45.8	X	X	X	X				X	X	X	X	X	X	X
11K	1,689,221	1,604,288	49.7	45.3	X	X	X	X						X	X	X	X	X
12K	1,604,288	1,604,287	50.5	47.2	X	X	X	X	X	X					X	X	X	X
13K	1,689,432	1,604,285	50.3	48.0	X	X	X	X	X	X	X				X	X	X	X
14K	1,689,437	1,604,395	48.7	46.7	X	X	X	X	X			X	X	X	X	X	X	X
15K	1,689,470	1,604,489	47.9	45.5	X	X	X	X			X	X	X	X	X	X	X	X
16K	1,689,507	1,604,540	47.5	45.1	X	X	X	X			X	X	X	X	X	X	X	X
17K	1,689,602	1,604,573	47.1	45.0	X	X	X	X			X	X	X	X	X	X	X	X
18K	1,689,659	1,604,575	46.8	45.2	X	X	X	X		X	X	X	X	X	X	X	X	X
19K	1,689,719	1,604,574	47.0	45.2	X	X	X	X		X	X	X	X	X	X	X	X	X
20k	1,689,787	1,604,573	47.5	45.4	X	X	X	X			X	X	X	X	X	X	X	X
1L	1,689,976	1,604,576	47.7	46.1	X	X	X	X	X		X	X	X	X	X	X	X	X
2L	1,689,974	1,604,518	48.0	46.5	X	X	X	X	X		X	X	X	X	X	X	X	X
16L	1,690,294	1,603,708	50.3	48.7	X	X	X	X	X	X	X			X	X	X	X	X
17L	1,690,292	1,603,648	50.5	49.0	X	X	X	X	X	X	X	X		X	X	X	X	X
18L	1,690,290	1,603,588	50.8	49.2	X	X	X	X	X	X	X	X		X	X	X	X	X
19L	1,690,288	1,603,528	51.0	49.5	X	X	X	X	X	X	X	X		X	X	X	X	X
20L	1,690,286	1,603,469	51.3	49.8	X	X	X	X	X	X	X	X			X	X	X	X
23L	1,690,280	1,603,277	53.0	51.4	X	X	X	X	X	X	X	X	X	X		X	X	X
24L	1,690,278	1,603,216	54.2	51.8	X	X	X	X	X	X	X	X	X	X				X

X = No testing required at this elevation.

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

COMPACTION TESTING

STORM WATER DRAIN IMPROVEMENTS

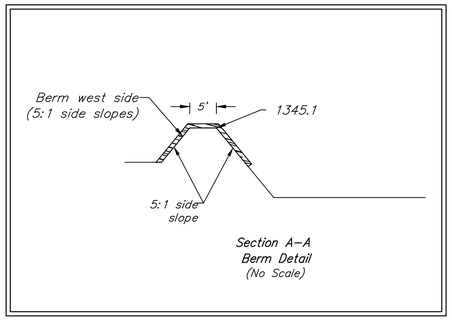
PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

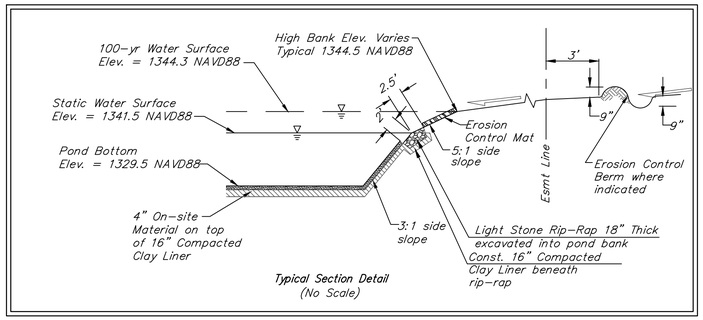
DATE: April 17, 2024

SHEET 21 OF 53

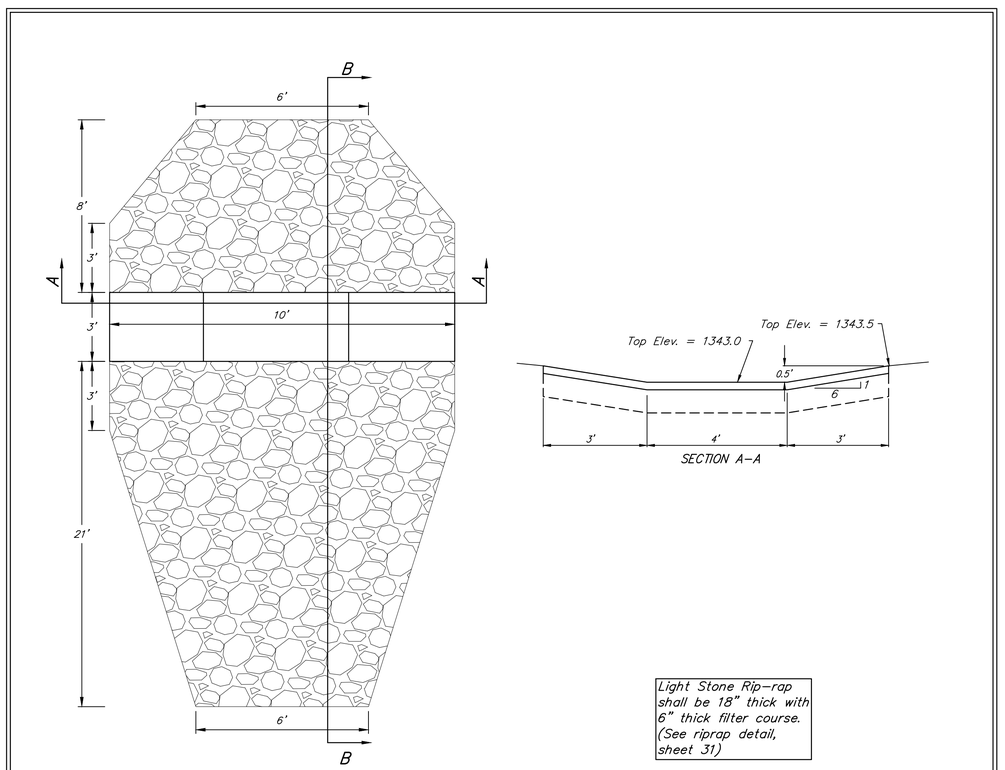
File: E:\Projects\Bridger At Central Addition\Albert_\Engineering\Phase 1\SWD_23-09-603SWD.dwg



Section A–A
Berm Detail
(No Scale)

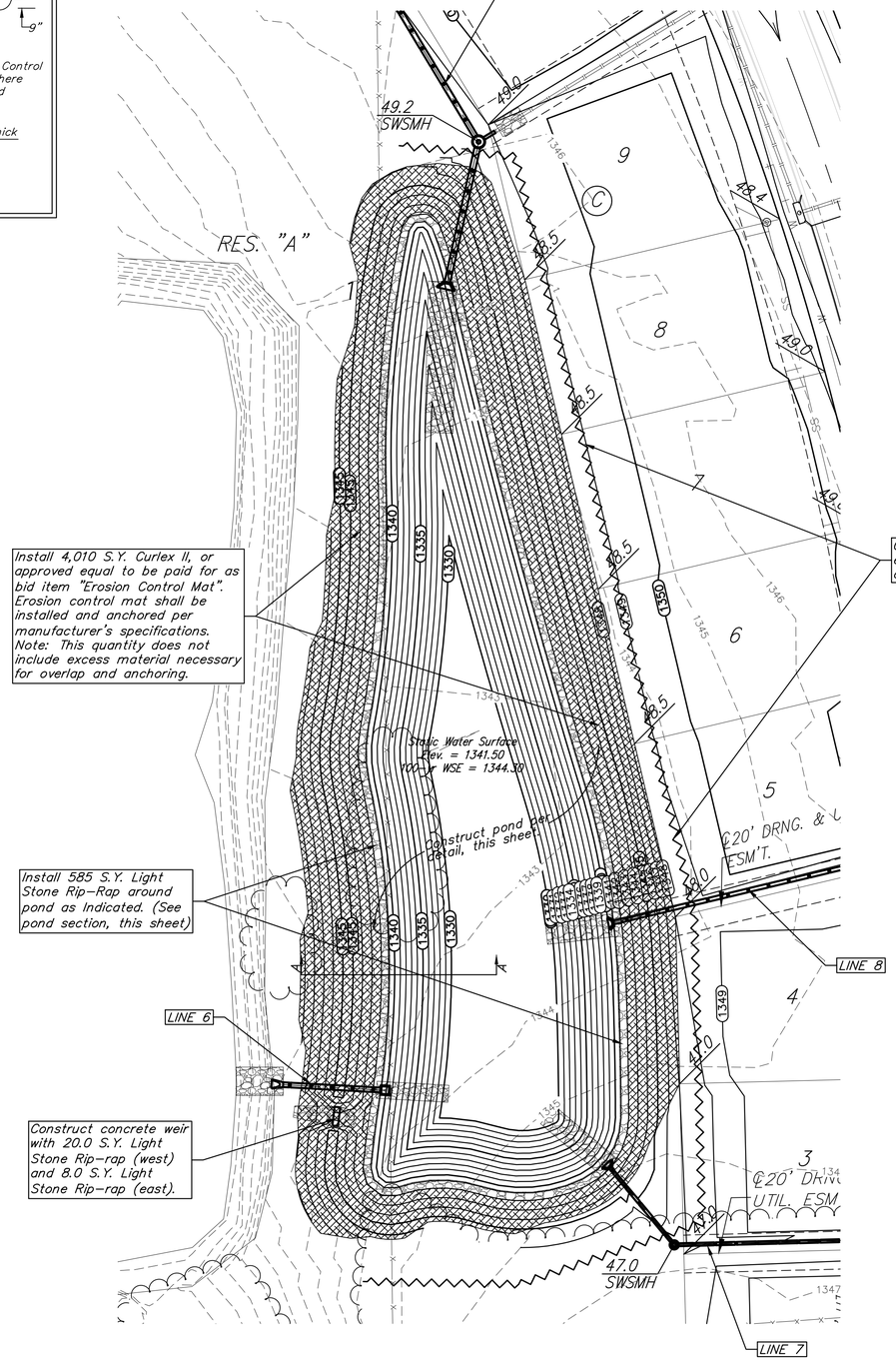


Typical Section Detail
(No Scale)



Light Stone Rip–rap shall be 18" thick with 6" thick filter course. (See riprap detail, sheet 31)

Weir Detail



Install 4,010 S.Y. Curlex II, or approved equal to be paid for as bid item "Erosion Control Mat". Erosion control mat shall be installed and anchored per manufacturer's specifications. Note: This quantity does not include excess material necessary for overlap and anchoring.

Construct 820 L.F. erosion control berm per detail, this sheet.

Install 585 S.Y. Light Stone Rip–Rap around pond as Indicated. (See pond section, this sheet)

Construct concrete weir with 20.0 S.Y. Light Stone Rip–rap (west) and 8.0 S.Y. Light Stone Rip–rap (east).

40 0 40

Scale: 1"=40'

EROSION CONTROL PLAN
LEGEND

- SILT FENCING
- EROSION CONTROL BERM
- EROSION CONTROL MAT
- LIGHT STONE RIPRAP

1345 Existing Grade

1345 Proposed Grade

BRENT WOOTEN
LICENSED
8470
09/03/2024
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

POND PLAN #1

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 22 OF 53

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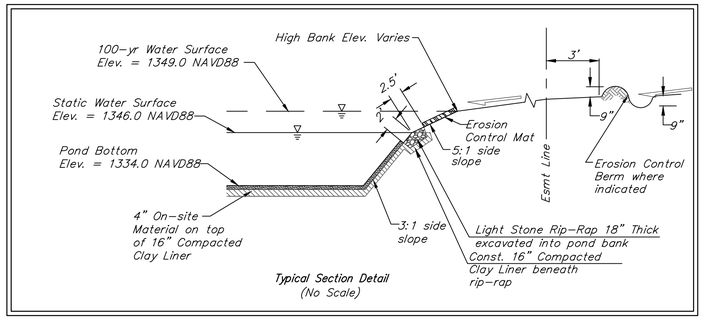


Typical Section Detail
(No Scale)

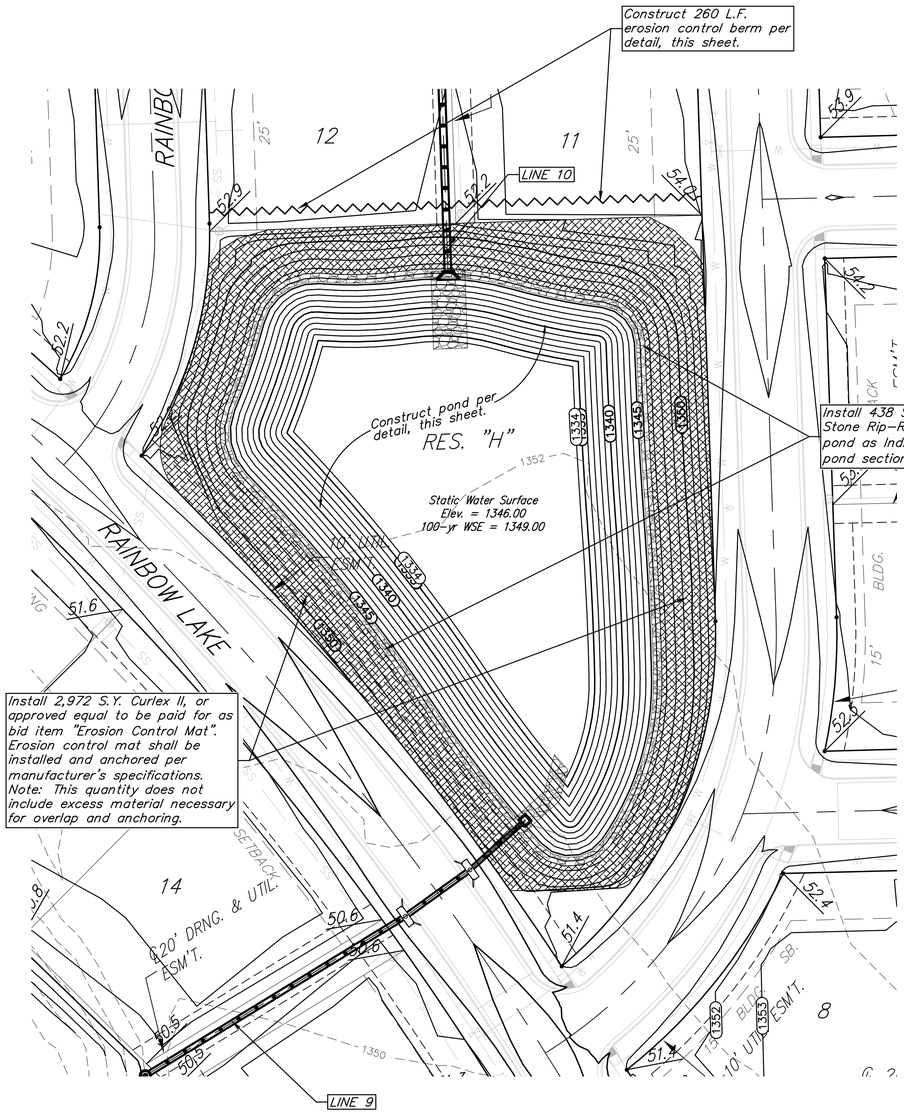
EARTH WORK TOTALS

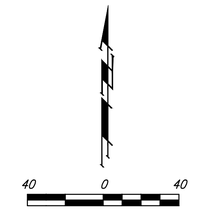
	C.Y. Excavation	C.Y. Compacted Fill
Mass Grading	18,615	161,274
Pond 1 Construction	16,900	1,514
Pond 2 Construction	28,303	104
Pond 3 Construction	123,085	897
Total	186,903	163,789

Earthwork fill quantities are unadjusted and are for reference only. Excavation for mass grading and pond construction work to be paid for as C.Y. Excavation. All cost associated with fill & compaction shall be incidental to lump sum bid item "Grading, Mass". With correction factors of 0.85*excavation and 1.15*fill, Contractor Borrow is expected to be approximately 28,843 CY and shall be included in the C.Y. bid item, "Excavation, Borrow". This will be available adjacent to the site at the area of the future pond, just south of Lots 5-14, Block B, Bridger at Central.

NOTES:

1. Pond bottom and sideslopes below static pool elevation shall be over-excavated 1'-10" and a 1'-6" clay liner shall be compacted to 95% std. density. The best on-site material shall be used for the pond liner. 4" of on-site material shall be distributed on top of the clay liner below the static pool elevation. The compaction and P.I. shall be verified during construction. One Plasticity Index determination will be required for the material used for each pond liner. Cost shall be incidental to "Testing". Cost of over-excavation to install Clay Liner shall be incidental to bid item "Excavation".
2. Any excess excavation shall be stockpiled on-site at an area indicated on the mass grading plan.
3. All areas disturbed by construction shall be seeded as indicated on cover sheet.
4. Install Erosion Control Mat (Curlex II or approved equal) from 2' below the water surface to top bank. To be paid for as bid item "Erosion Control Mat".





EROSION CONTROL PLAN
LEGEND

- SILT FENCING
- EROSION CONTROL BERM
- EROSION CONTROL MAT
- LIGHT STONE RIPRAP

1345 Existing Grade

1345 Proposed Grade

BRENT WOOTEN
LICENSED
8470
09/03/2024
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

POND PLAN #2

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 23 OF 53

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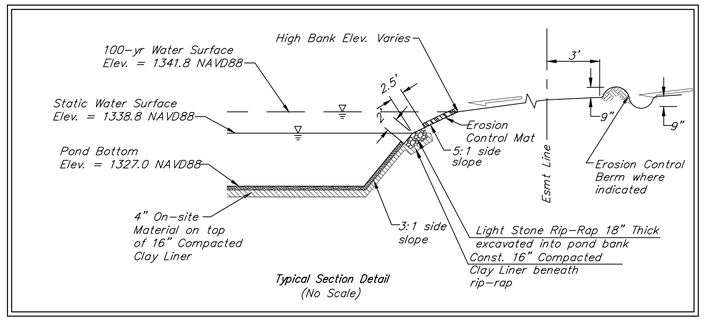


Typical Section Detail
(No Scale)

Install 7,932 S.Y. Curlex II, or approved equal to be paid for as bid item "Erosion Control Mat". Erosion control mat shall be installed and anchored per manufacturer's specifications. Note: This quantity does not include excess material necessary for overlap and anchoring.

Install 1,183 S.Y. Light Stone Rip-Rap around pond as Indicated. (See pond section, this sheet)

Abandoned UG AT&T

Construct pond per detail, this sheet.

Static Water Surface Elev. 1338.80
100-yr WSE = 1341.80

Construct 1,420 L.F. erosion control berm per detail, this sheet.

40 0 40

Scale: 1"=40'

EROSION CONTROL PLAN LEGEND

- SILT FENCING
- EROSION CONTROL BERM
- EROSION CONTROL MAT
- LIGHT STONE RIPRAP

1345 Existing Grade

(1345) Proposed Grade

BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

POND PLAN #3

STORM WATER DRAIN IMPROVEMENTS

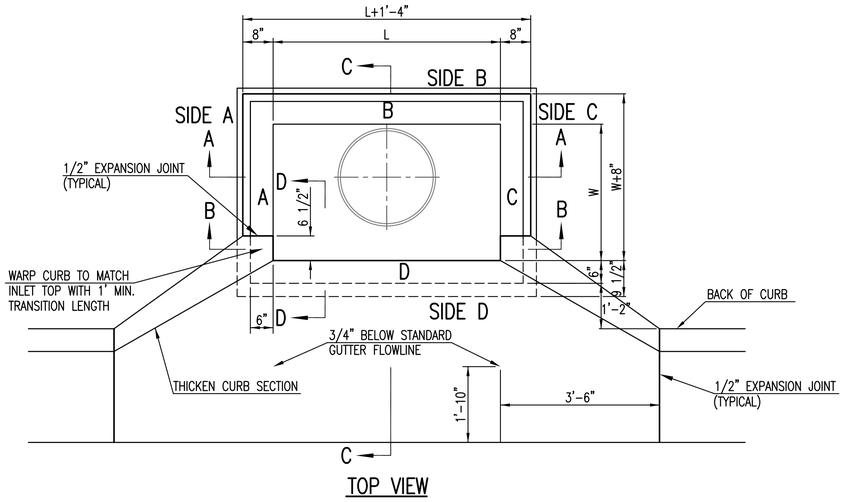
PROJECT NUMBER: 23-09-603

DESIGN: NBW DRAWN: TMS

DATE: August 23, 2024

SHEET 24 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD 23-09-603SWD.dwg



TOP VIEW

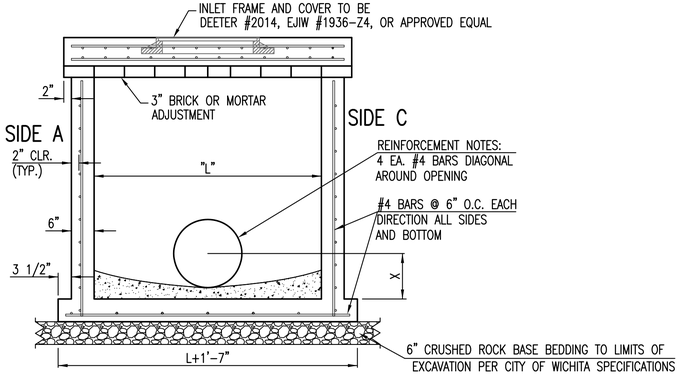
BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

PRECAST CURB INLET WIDTHS				
W	PRE-CAST TOP SIZE			PIPE DIA.**
	WIDTH	LENGTH	TOP	
3'-0"	W+8"	L+1'-4"	7 1/2"	21" & SMALLER
4'-0"	W+8"	L+1'-4"	7 1/2"	24" & 30"
5'-0"	W+8"	L+1'-4"	7 1/2"	36" & 42"
6'-0"	W+8"	L+1'-4"	7 1/2"	48" & 54"
7'-0"	W+8"	L+1'-4"	7 1/2"	60" & 66"

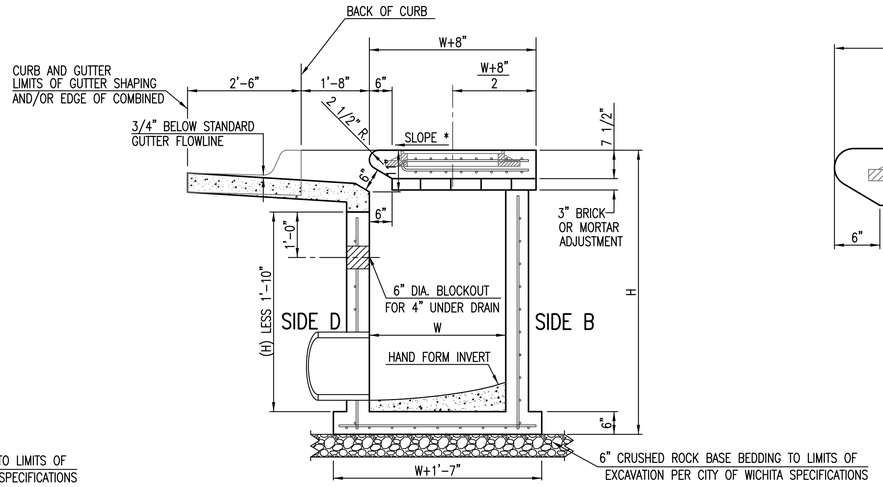
** FOR PIPES PERPENDICULAR TO INLET WALL

GENERAL NOTES

1. CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN W=5'-0" AND H=7'-0" OR LESS.
3. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
4. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
5. INLET FRAME AND COVER TO BE DEETER #2014, EJIW #1936-Z4, OR APPROVED EQUAL, SEE SW-303.
6. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.

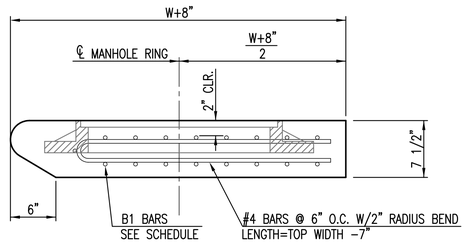


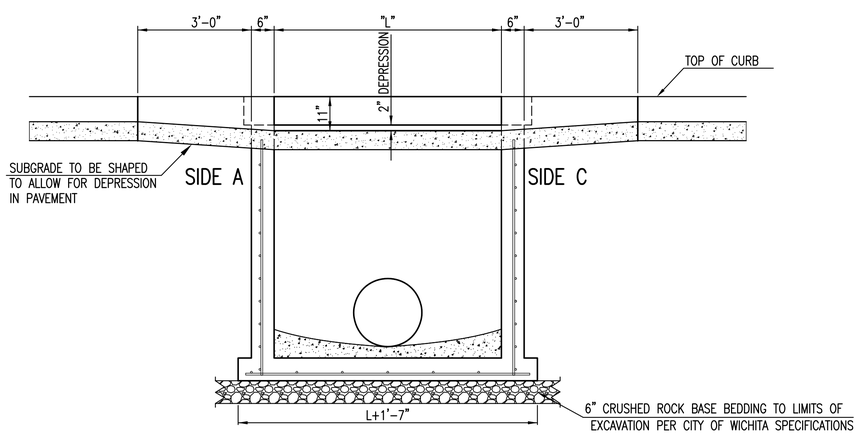
SECTION "A-A"



SECTION "C-C"

NOTES:
* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.





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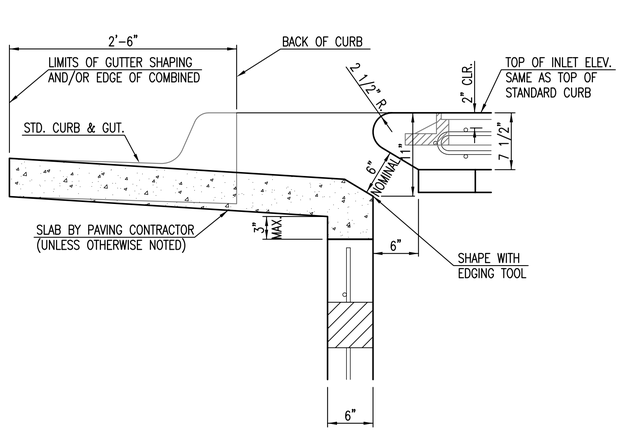

SECTION "D-D"

REVISION MAY 2017	UPDATED SET BACK DIMENSION ON TOP VIEW

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STANDARD TYPE 1A CURB INLET 5'-0" OR 10'-0" OPENING

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
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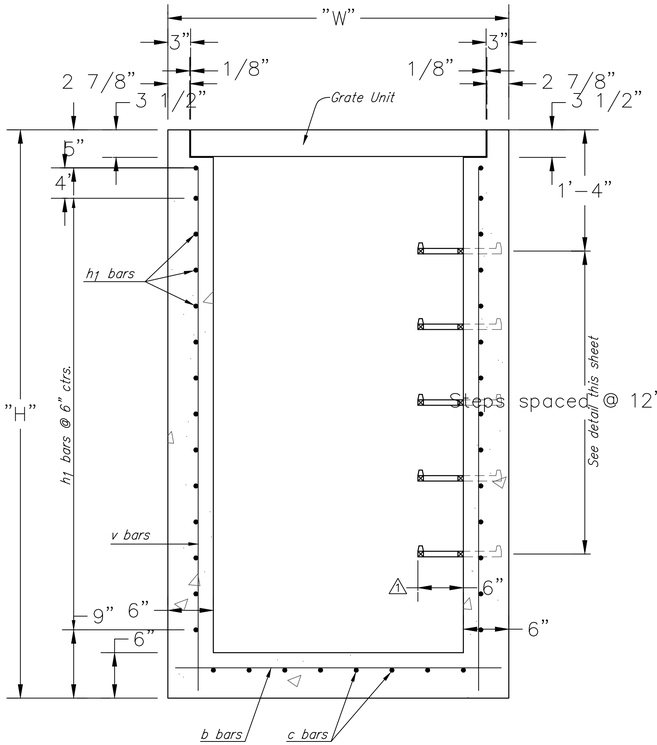
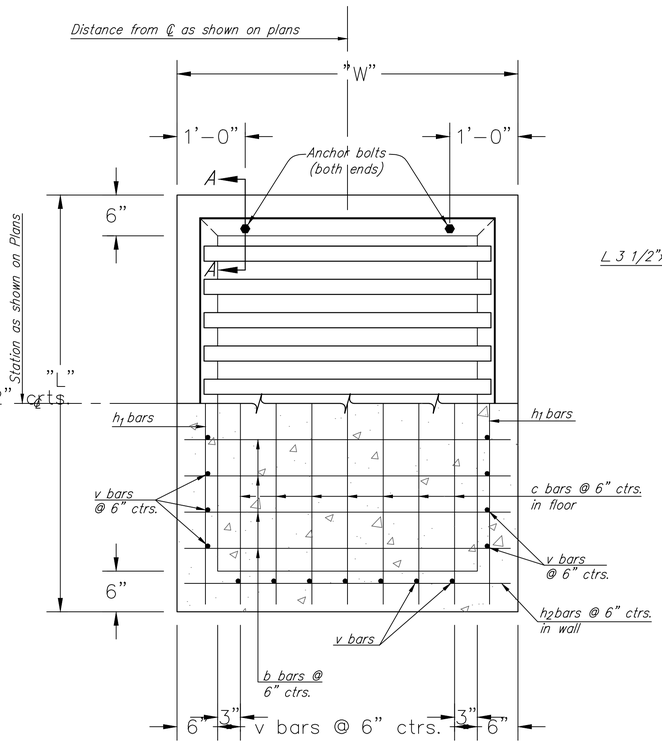
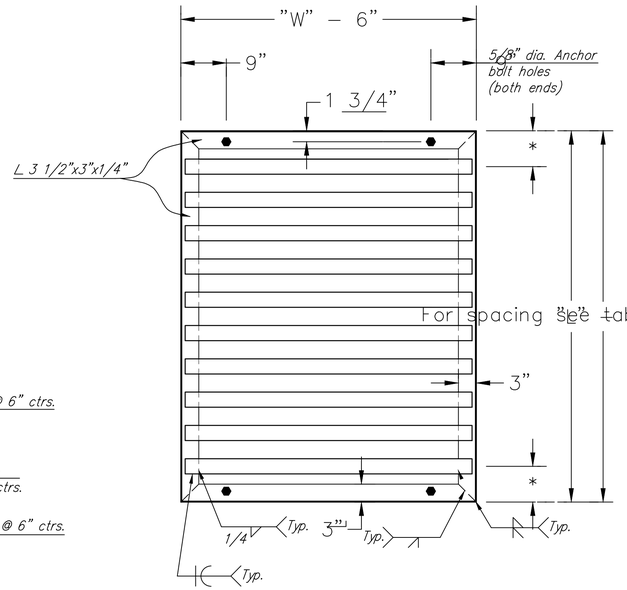


SECTION



PLAN AND SECTION



GRATE UNIT DETAILS

GENERAL NOTE

Use Class A Concrete throughout. All exposed edges shall be finished with an edging tool.

At the Contractors option, Class A Concrete (AE) or mix used in concrete pavement may be used throughout.

In general, pipes will enter and leave the manhole at various positions. Where possible bend bars around pipes.

Floor of inlet shall be shaped as shown in various "Examples" on Reinforced Concrete Manhole Standard No. 633. Concrete used for shaping shall be unreinforced Class "A" Concrete or concrete pavement mix. No addition in concrete quantities shall be made for shaping floor of inlets.

Manhole steps, where used, shall be placed to afford easy access to top of shaped invert.

No deductions in concrete quantities shall be made for pipe openings.

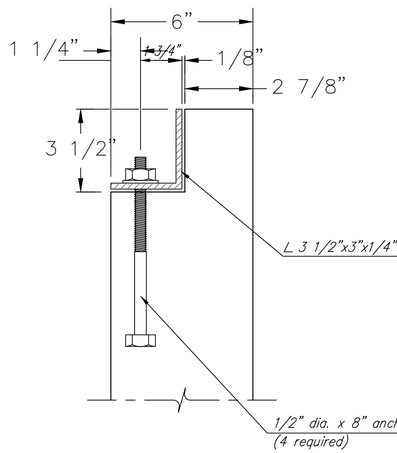
All bars are #4 @ 6" spacing and shall have a minimum clearance of 1 1/2" unless otherwise noted on the plans.

The top of the manhole shall be sloped slightly to approximately fit the ground line or other conditions as directed by the Engineer.

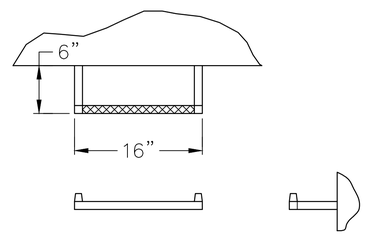
Steps shall be installed on all storm sewer inlets when specified in the plans or when "H" is equal or greater than six feet. Steps shall comply with KDOT Standard Specification.

The grate shall be fabricated from standard or commercial grade structural steel and black steel pipe. The unit shall be hot dipped, galvanized after fabrication, in accordance with ASTM A123 except the weight of coating shall average not less than 2.0 ounces per square foot of actual surface and no individual test shall show less than 1.8 ounces of coating per square foot of actual surface area.

** Unless otherwise provided for, quantities shown are for information only.



SECTION A-A



STEP DETAILS

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

INLET MANHOLE DETAIL

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 11, 2024

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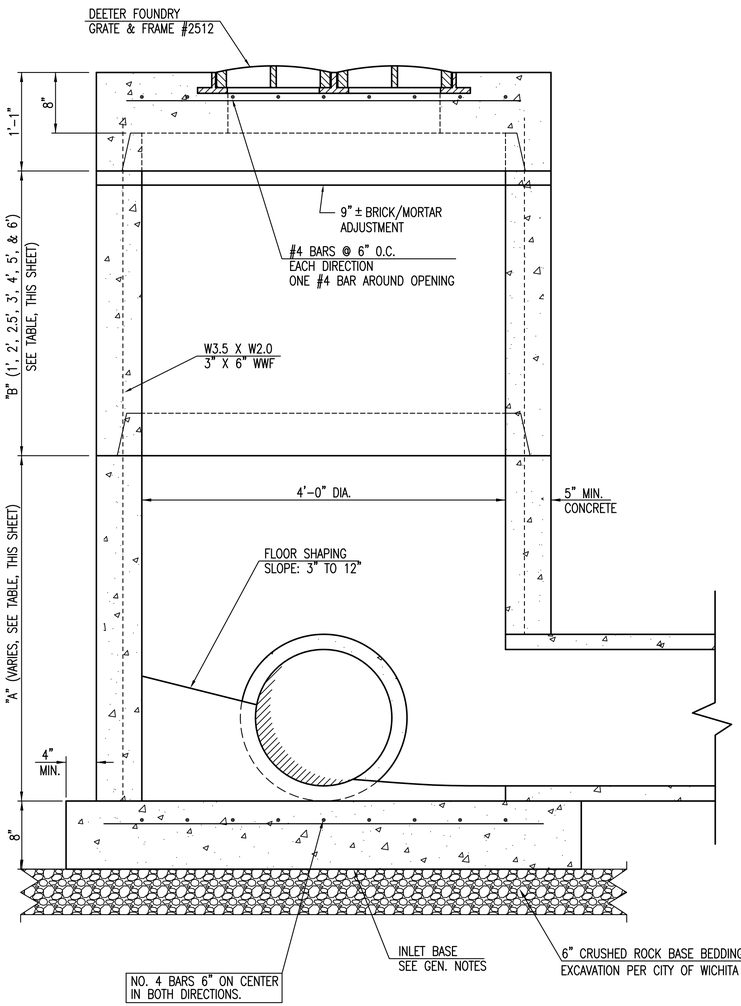
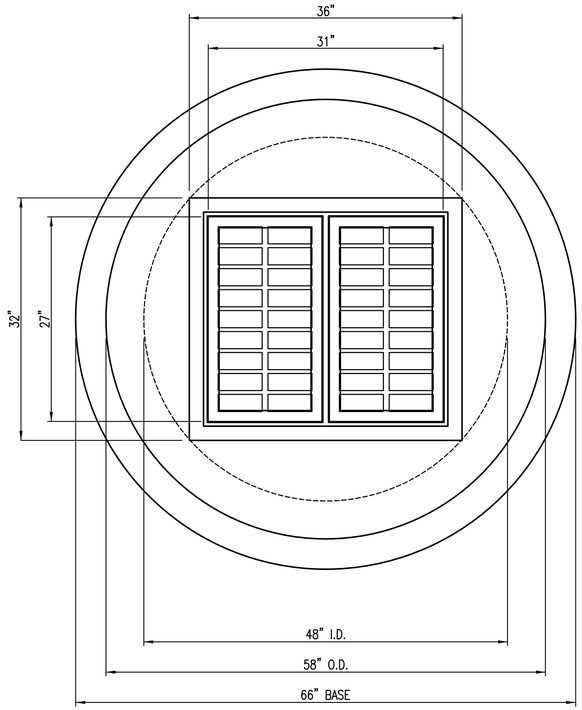
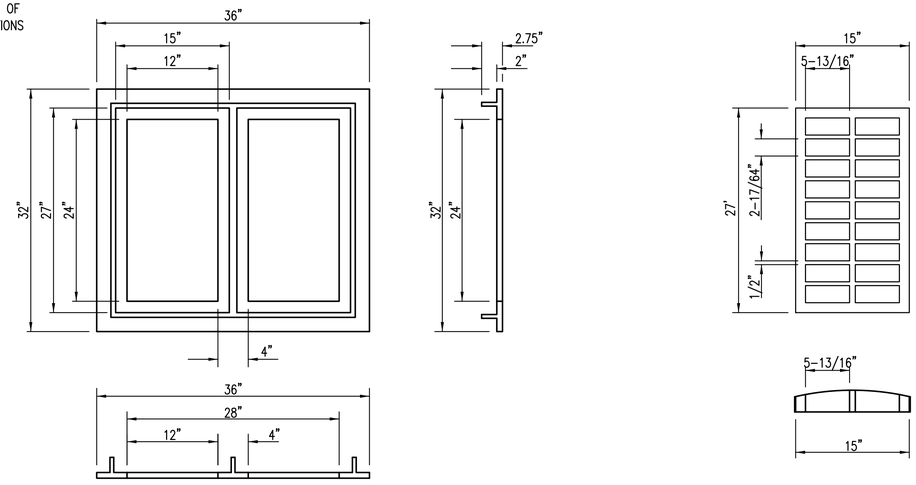


BACKYARD INLET

LINE #	STA.	TOP OF INLET	INLET FLOW	"A"	"B"
5	4+17.1	1347.70	1336.88	5.00'	5.0'
10	2+03.1	1351.90	1344.16	4.94'	2.0'
10	3+03.1	1352.90	1344.36	5.74'	2.0'
10	3+41.9	1352.50	1344.70	6.00'	1.0'
11	0+58.3	1343.50	1339.00	2.50'	2.0'

BACKYARD INLETS SHALL NOT BE USED UNDER PAVEMENT





DEETER #2512 CATCH BASIN INLET GRATE & FRAME

GENERAL NOTES

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN BACKYARD INLET BASES SHALL CONFORM TO THE REQUIREMENTS FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE CEMENT MIX WITHOUT AIR ENTRAINING.

2. REINFORCING STEEL SHALL BE INSTALLED IN THE BACKYARD INLET BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE BACKYARD INLET BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE BACKYARD INLET BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BACKYARD INLET.

3. THE FLOORS OF ALL BACKYARD INLET SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE INLETS WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS. INLET FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH INLETS SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE INLET. INLET FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.

4. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE INLET SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE INLET EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE INLET. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN INLET EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO INLET SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE INLET.

5. INLET GRATE CASTINGS AND INLET FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.

6. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

7. JOINTS BETWEEN INLET SECTIONS TO BE SEALED WITH TWO WRAPS OF EXTRUDED BUTYL RUBBER JOINT MASTIC MEETING CITY OF WICHITA TYPE "A" MANHOLE SPECIFICATIONS.

8. BACKYARD INLETS SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH. ALL STANDARD BACKYARD INLET DIAMETERS WILL BE 4'.

9. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

BACKYARD INLET

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

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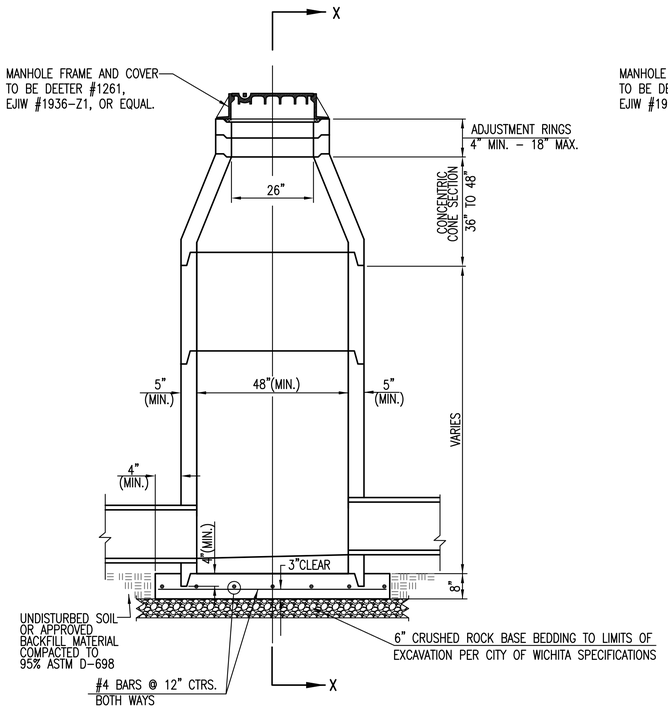
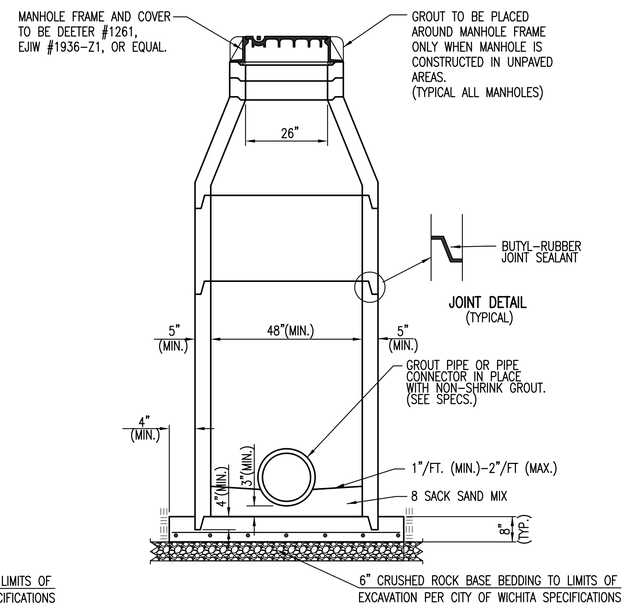
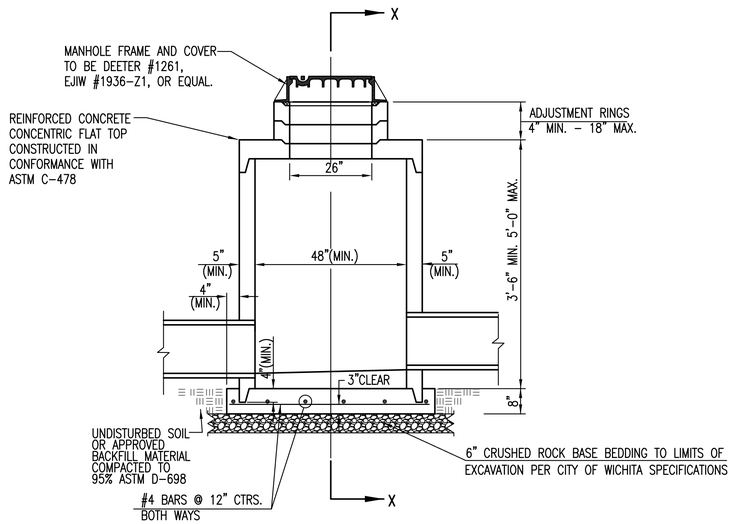
SW-203



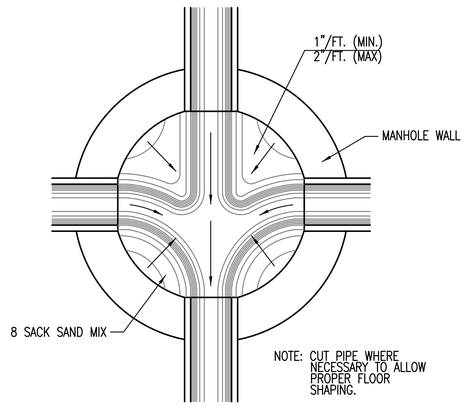
PRECAST
STANDARD MANHOLE
TYPE "A"



SECTION X-X
(TYPICAL)



PRECAST
SHALLOW MANHOLE
TYPE "B"



TYPICAL MANHOLE
FLOOR SHAPING

GENERAL NOTES

1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
4. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
5. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
6. CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
8. MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
9. MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
10. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
11. THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
12. MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
13. MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-Z1, OR APPROVED EQUAL, SEE SW-303.
14. FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
15. FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

PRECAST CONCRETE MANHOLE (STORM SEWER)

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
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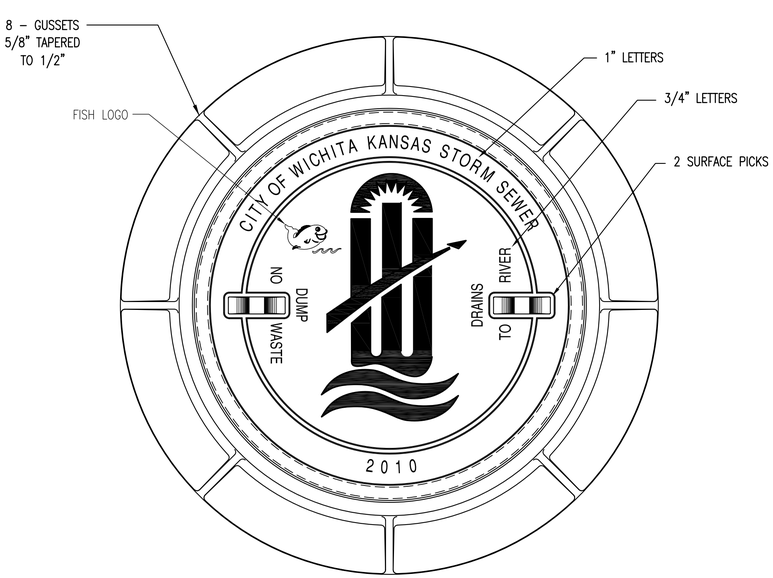
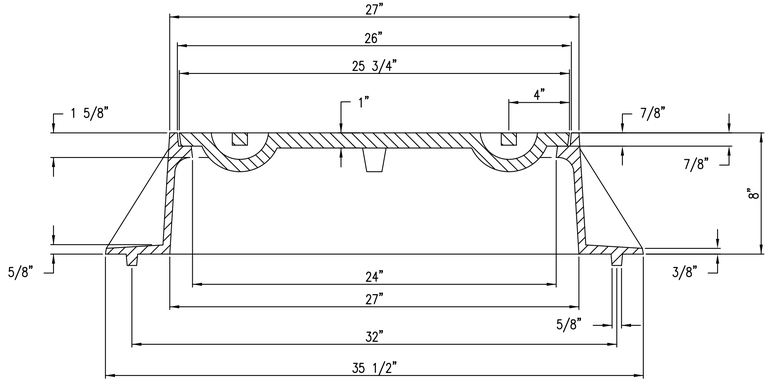
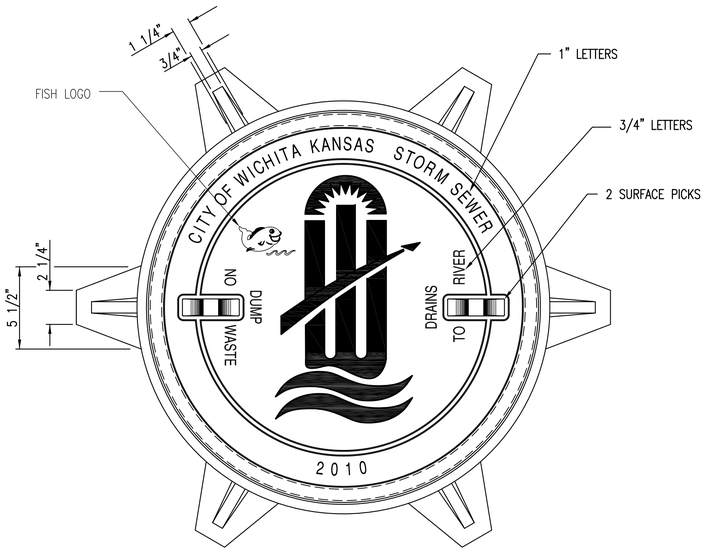


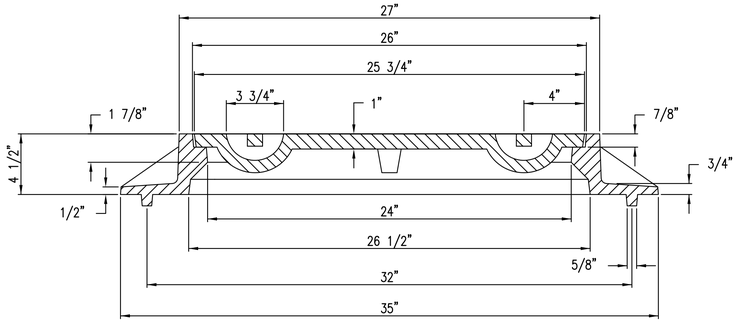


MANHOLE FRAME

DEETER #1261 OR EJIW #1936–Z1

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
2. COVER TO BE DEETER #1261 OR EJIW #1936A.





INLET FRAME

DEETER #2014 OR EJIW #1936–Z4

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
2. NOT TO BE USED UNDER PAVEMENT.
3. COVER TO BE DEETER #1261 OR EJIW #1936A.

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

MANHOLE/INLET FRAME AND COVER (STORM SEWER)

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		11/2010

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

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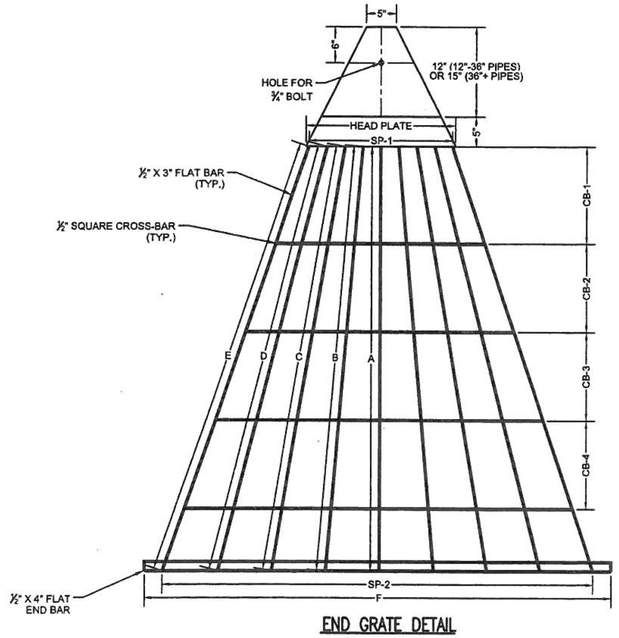
SW–303



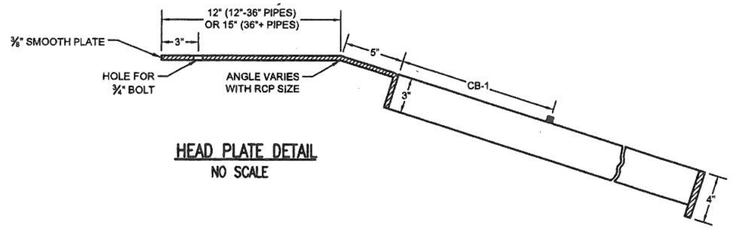
END GRATE DETAIL

NO SCALE

NOTE: GRATE TO BE USED AS DIRECTED BY THE CITY OF WICHITA.

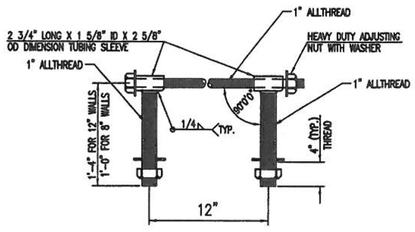
GRATE DIMENSIONS

PIPE SIZE	HEAD PLATE	A	B	C	D	E	F	CB-1	CB-2	CB-3	CB-4	SP-1	SP-2
12"	13"	19¼"	19⅜"	–	–	–	27"	10⅜"	–	–	–	3@4"	3@6"
15"	13"	23½"	25¼"	–	–	–	34"	10¾"	–	–	–	3@4"	3@8"
18"	13"	25"	26⅛"	–	–	–	40"	12⅞"	–	–	–	3@4"	3@9"
24"	17"	41½"	42½"	43½"	–	–	53"	12"	15"	–	–	4@4"	4@9"
30"	19"	51½"	52½"	53½"	–	–	65"	16¼"	11¾"	12"	–	2@3"+3@4"	5@9"
36"	21"	60½"	61½"	62½"	–	–	78"	18⅝"	14¼"	16"	–	2@2"+4@4"	6@9"
42"	22"	65½"	66½"	67⅜"	68¾"	–	86"	13⅜"	12⅝"	13"	11¾"	7@3"	7@9"
48"	25"	70⅞"	71"	71¾"	73"	74½"	90"	16¼"	14¾"	14¾"	14¾"	8@3"	8@9"
54"	26"	71¾"	73"	74½"	74¾"	76¾"	96"	6⅞"	20⅞"	17⅞"	15⅝"	4@2¾"+5@3"	9@9"
60"	28"	61⅛"	61¾"	62¾"	64½"	66⅝"	102"	12"	12"	11½"	13"	2@2"+8@3"	10@9"



HEAD PLATE DETAIL

NO SCALE

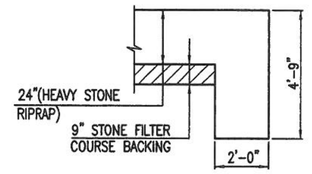


HEAVY DUTY (H.D.) COUPLER(≥36")

NO SCALE

NOTES

1. BOLTS TO BE A-36 1 1/2" DIAMETER.
2. BOLTS, NUTS, WASHERS AND SLEEVES TO BE ZINC PLATED.
3. WASHERS TO BE 3 1/2" O.D. X 7 GAUGE.
4. SHIP WITH NUTS AND WASHERS PLACED ON BOLTS.



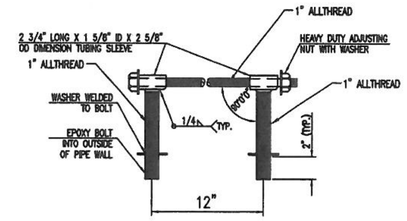
TYPICAL SECTION THRU TOEWALL

NO SCALE

NOTES

1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED, UNLESS INDICATED OTHERWISE.
2. TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.
3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED, UNLESS INDICATED OTHERWISE. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

HEAVY STONE RIPRAP DETAILS

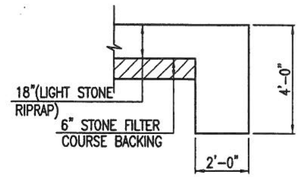


HEAVY DUTY (H.D.) COUPLER(≤30")

NO SCALE

NOTES

1. BOLTS TO BE A-36 1 1/2" DIAMETER.
2. BOLTS, NUTS, WASHERS AND SLEEVES TO BE ZINC PLATED.
3. WASHERS TO BE 3 1/2" O.D. X 7 GAUGE.
4. SHIP WITH NUTS AND WASHERS PLACED ON BOLTS.



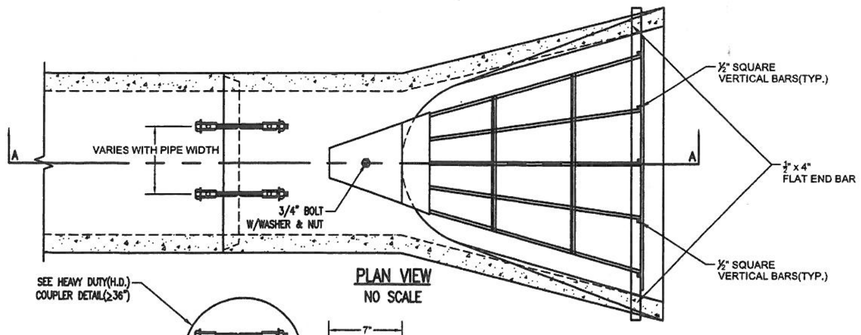
TYPICAL SECTION THRU TOEWALL

NO SCALE

NOTES

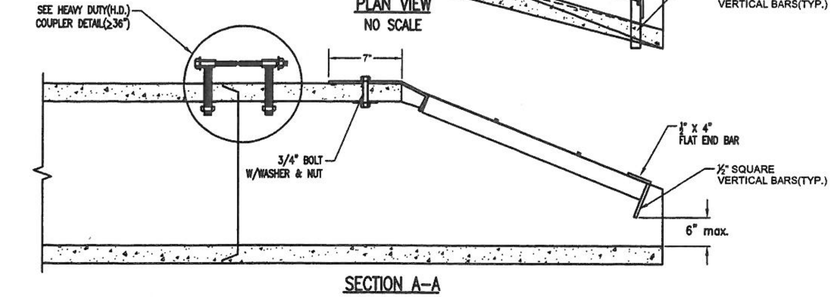
1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED, UNLESS INDICATED OTHERWISE.
2. TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.
3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED, UNLESS INDICATED OTHERWISE. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

LIGHT STONE RIPRAP DETAILS

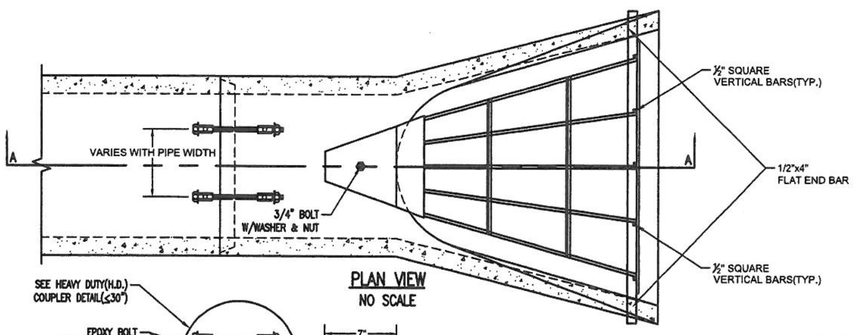


PLAN VIEW

NO SCALE

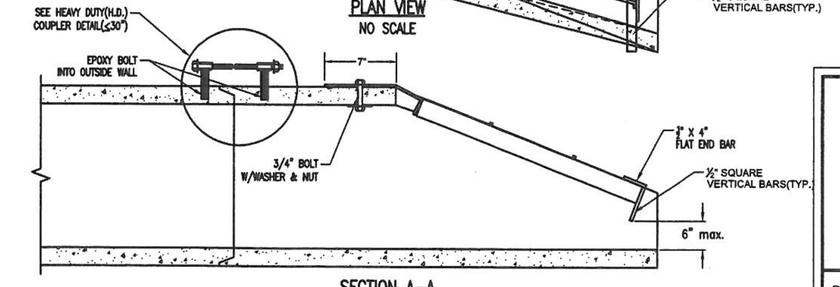


SECTION A-A



PLAN VIEW

NO SCALE



SECTION A-A

CITY OF WICHITA

PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

END SECTION, PIPE RESTRAINT COUPLER & END GRATE

CITY ENGINEER

GARY JANZEN, P.E

PROJECT NUMBER	OCA NUMBER	DATE
		01/2015

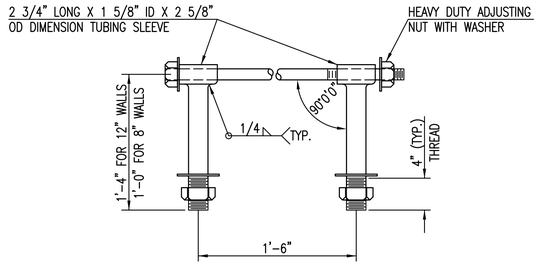
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

DESIGN	DRAWN

SHEET

30 of 53

SW-408

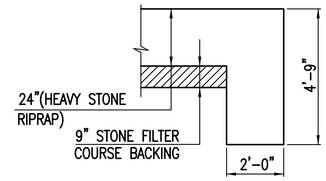


HEAVY DUTY (H.D.) COUPLER

NO SCALE

NOTES

1. BOLTS TO BE A-36 1 1/2" DIAMETER.
2. BOLTS, NUTS, WASHERS AND SLEEVES TO BE ZINC PLATED.
3. WASHERS TO BE 3 1/2" O.D. X 7 GAUGE.
4. SHIP WITH NUTS AND WASHERS PLACED ON BOLTS.



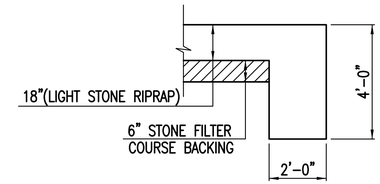
TYPICAL SECTION THRU TOEWALL

NO SCALE

NOTES

1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED, UNLESS INDICATED OTHERWISE.
2. TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.
3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED, UNLESS INDICATED OTHERWISE. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

HEAVY STONE RIPRAP DETAILS



TYPICAL SECTION THRU TOEWALL

NO SCALE

NOTES

1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED, UNLESS INDICATED OTHERWISE.
2. TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.
3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED, UNLESS INDICATED OTHERWISE. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.

LIGHT STONE RIPRAP DETAILS

CITY OF WICHITA

PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

MISCELLANEOUS DETAILS (STORM SEWER)

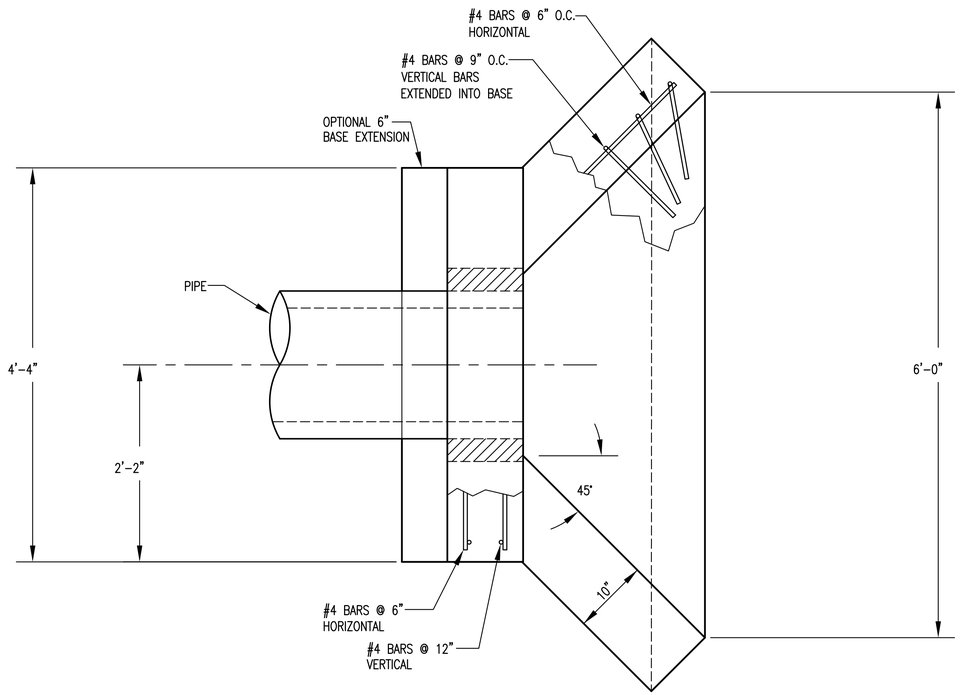
CITY ENGINEER

GARY JANZEN, P.E.

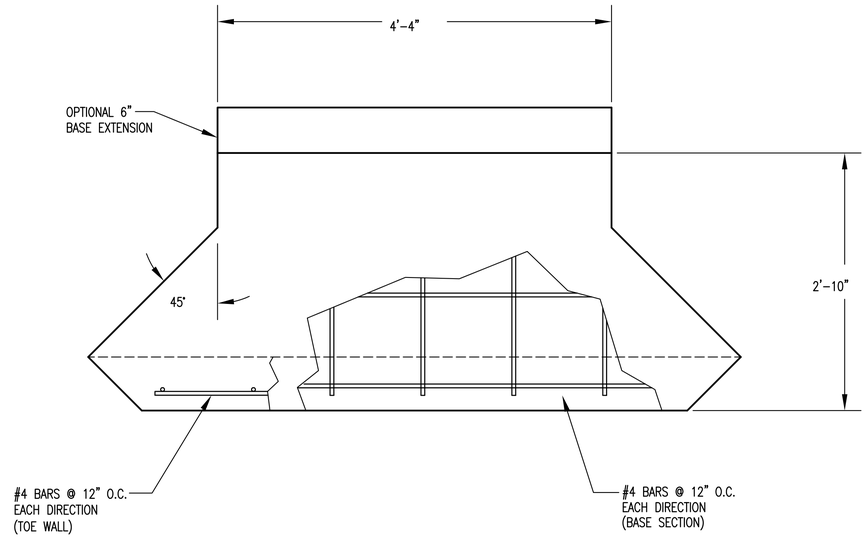
PROJECT NUMBER	OCA NUMBER	DATE
		11/2010

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

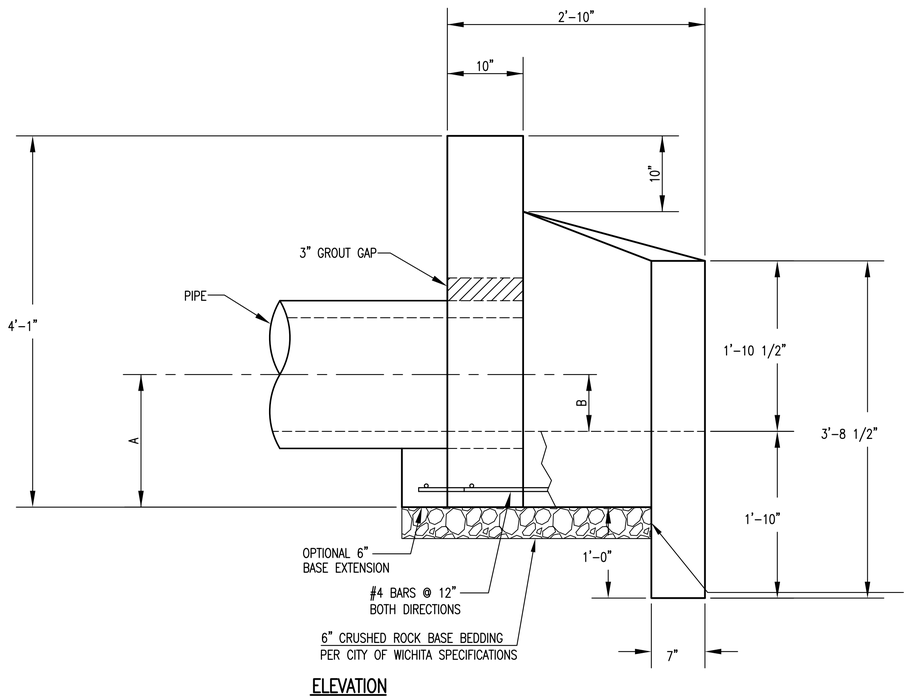


PLAN VIEW

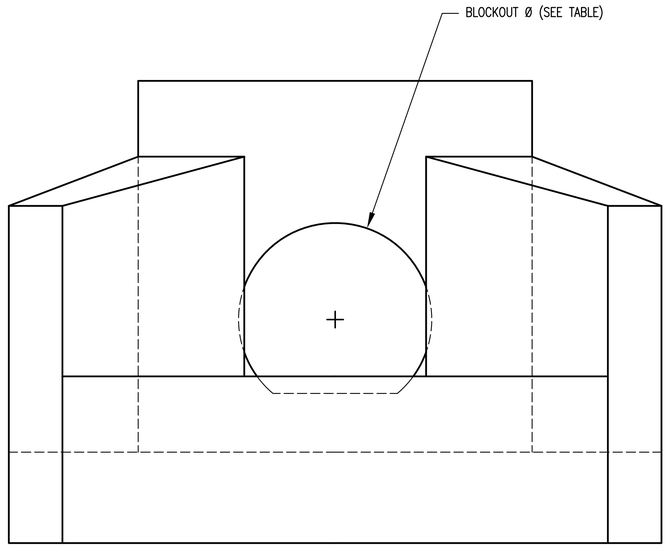


PLAN VIEW
BASE

PIPE Ø	A	B	BLOCKOUT Ø
15"	1'-5 1/2"	7 1/2"	2'-1 1/2"
18"	1'-7"	9"	2'-5"
24'	1'-10"	1'-0"	3'-0"



ELEVATION



FRONT VIEW

HEADWALLS, AS SHOWN, WILL NOT SUPPORT FLAP GATE.

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

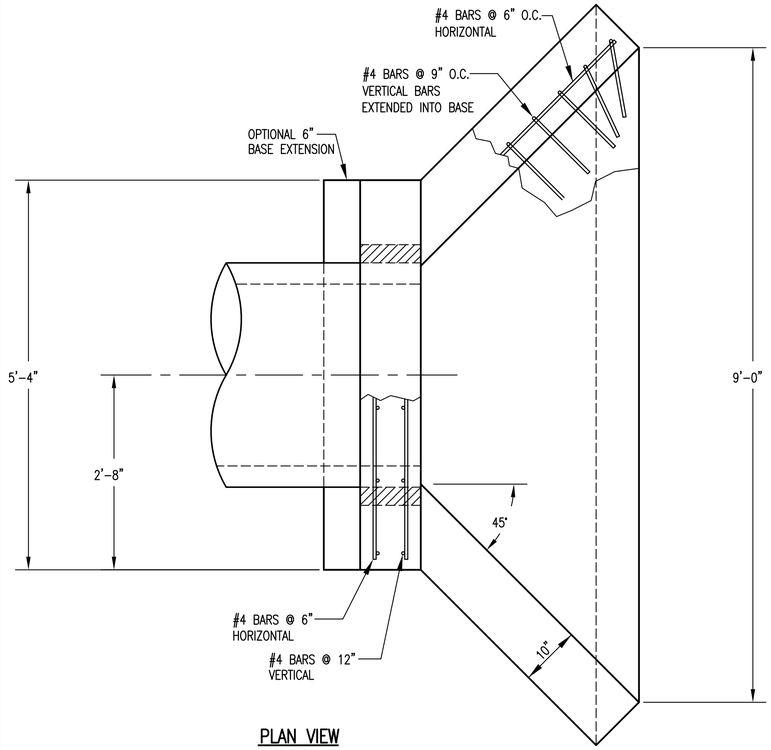
HEADWALL
DETAILS FOR
15", 18", AND 24" PIPE

CITY ENGINEER
GARY JANZEN, P.E.

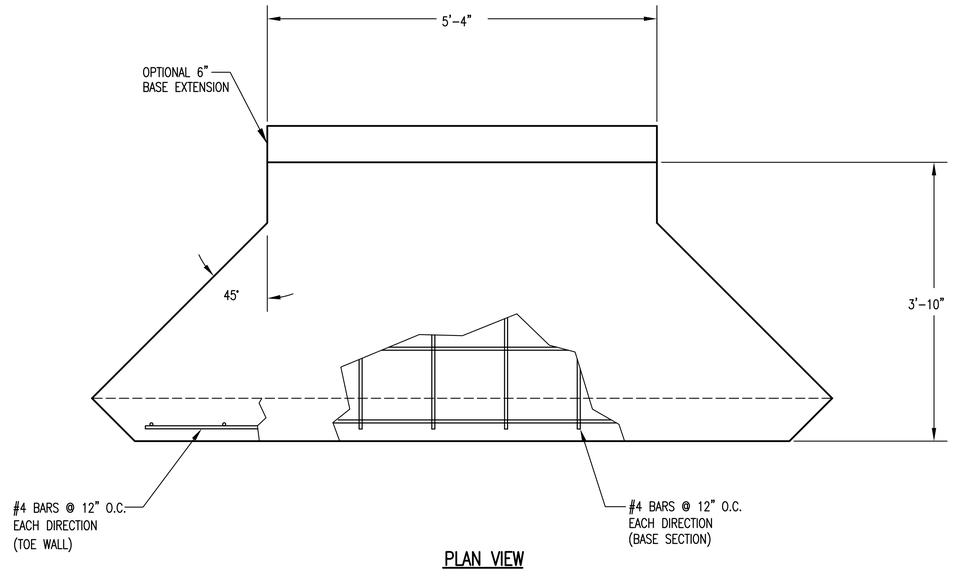
PROJECT NUMBER	OCA NUMBER	DATE
		11/2010

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SW-402

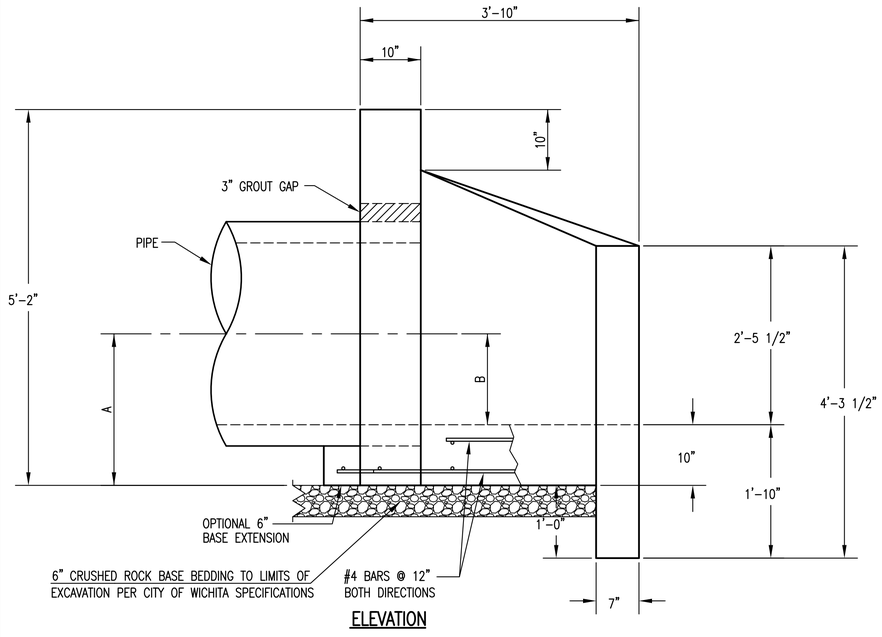


PLAN VIEW

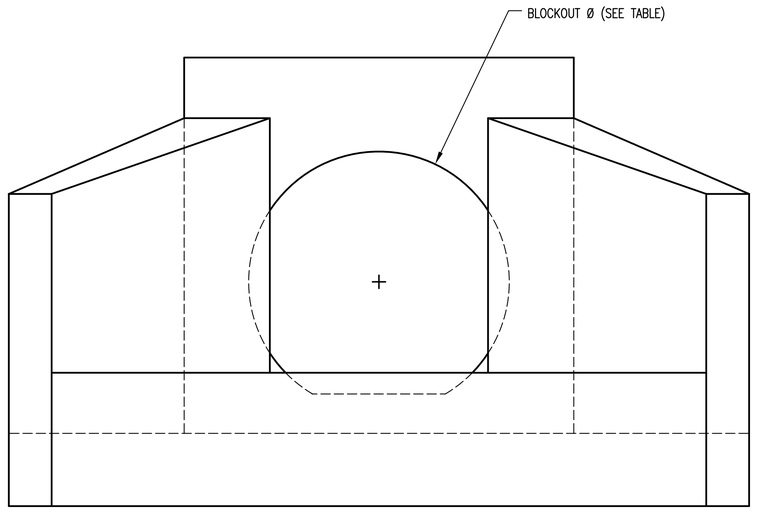


PLAN VIEW
BASE

PIPE Ø	A	B	BLOCKOUT Ø
30"	2'-1"	1'-3"	3'-7"
36"	2'-4"	1'-6"	4'-2"



ELEVATION



FRONT VIEW

HEADWALLS, AS SHOWN, WILL NOT SUPPORT FLAP GATE.

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

HEADWALL DETAILS FOR 30" AND 36" PIPE

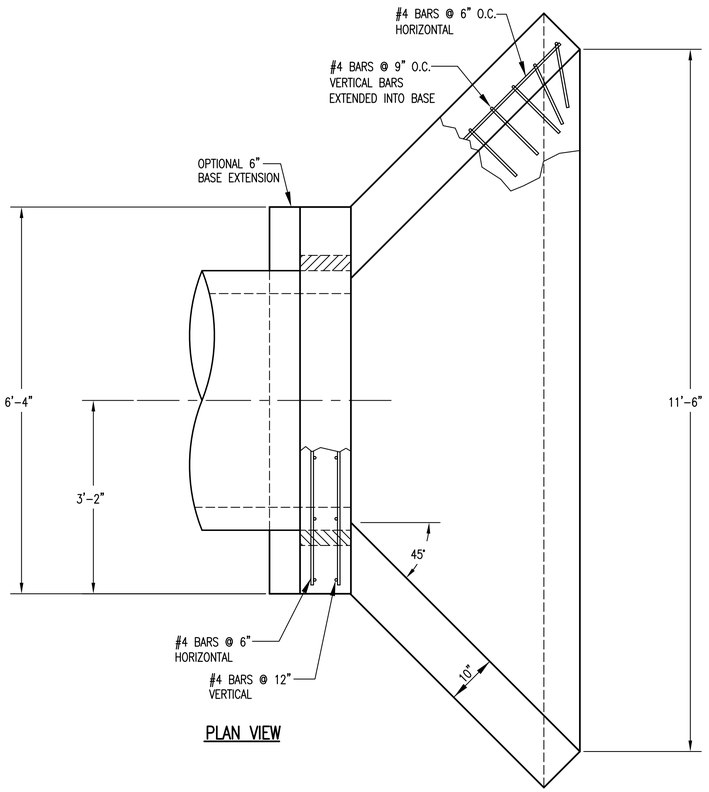
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

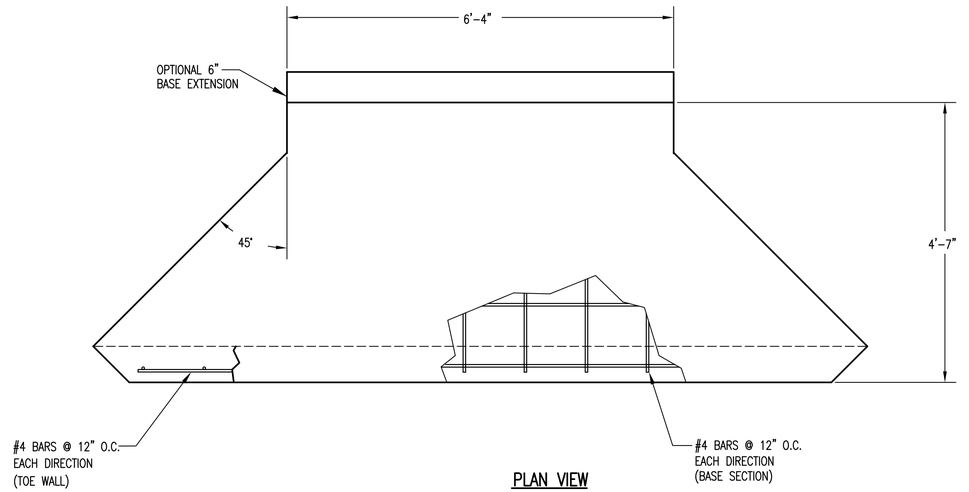
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
33 of 53

SW-403

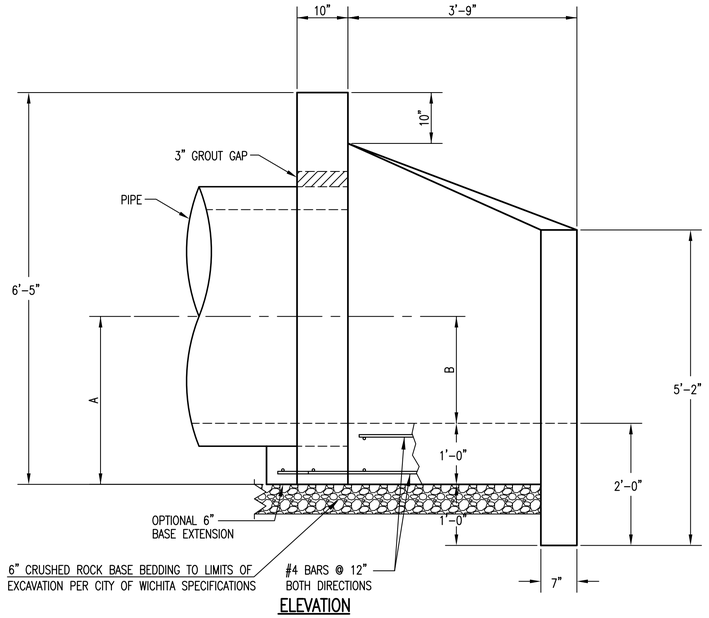


PLAN VIEW

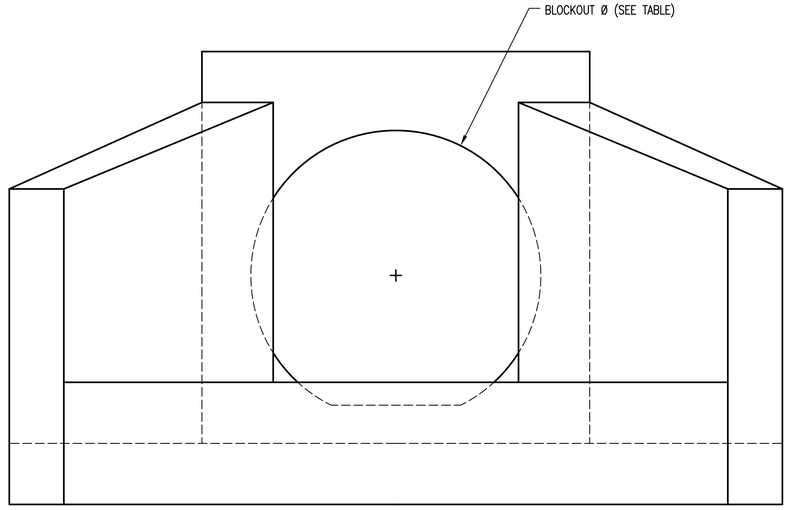


PLAN VIEW
BASE

PIPE Ø	A	B	BLOCKOUT Ø
42"	2'-9"	1'-9"	4'-9"
48"	3'-0"	2'-0"	5'-4"



ELEVATION



FRONT VIEW

HEADWALLS, AS SHOWN, WILL NOT SUPPORT FLAP GATE.

REVISED: MARCH 2015

CITY OF WICHITA

PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

HEADWALL DETAILS FOR 42" AND 48" PIPE

CITY ENGINEER

GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

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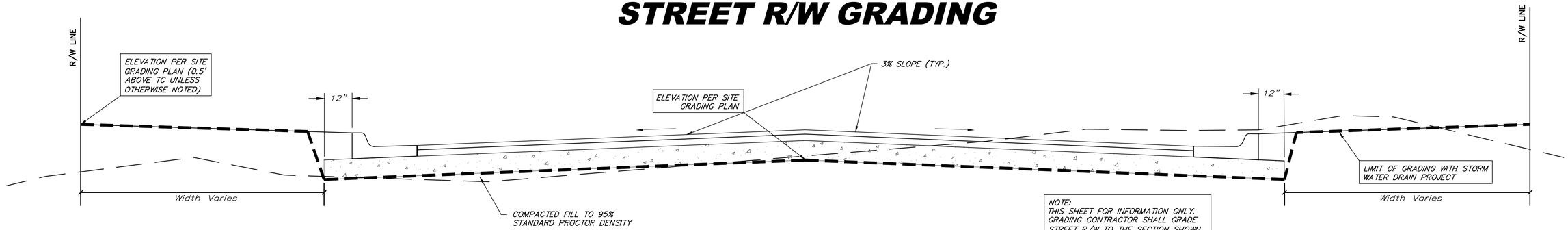
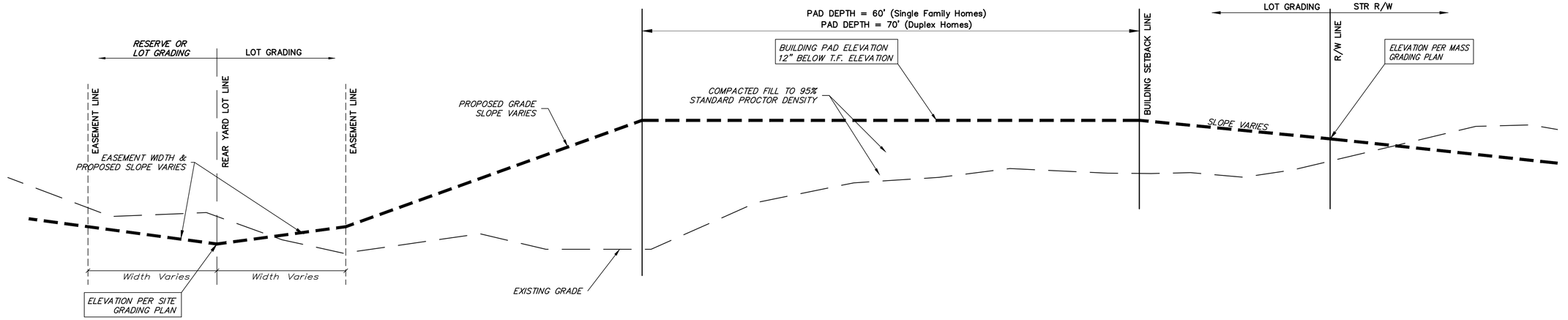
SW-404

STREET R/W GRADING

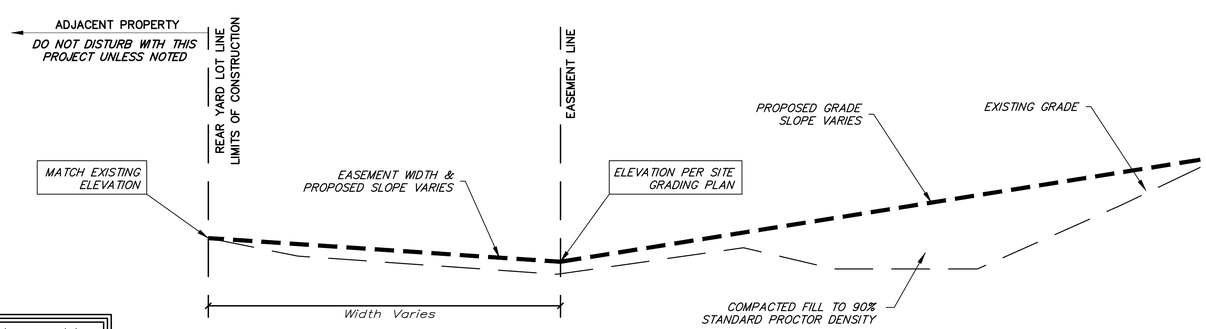


NOTE:
THIS SHEET FOR INFORMATION ONLY. GRADING CONTRACTOR SHALL GRADE STREET R/W TO THE SECTION SHOWN (+/-0.1') AND SHALL PERFORM COMPACTION AS INDICATED. SEE SITE GRADING PLAN FOR ELEVATIONS

LOT FILL GRADING



EXTERIOR PLATTED LOT SECTION



When trees are present along rear lot line, grade shall match at trunk line and trees shall not be disturbed. Any trimming of trees shall be approved by the engineer and owner.

NOTE:
GRADING CONTRACTOR SHALL GRADE LOTS TO THE SECTION SHOWN (+/-0.2') AND SHALL PERFORM COMPACTION AS INDICATED. SEE SITE GRADING PLAN FOR ELEVATIONS

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

MASS GRADING DETAIL

STORM WATER DRAIN IMPROVEMENTS

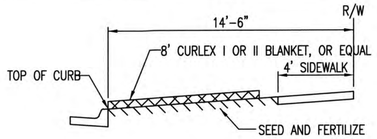
PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

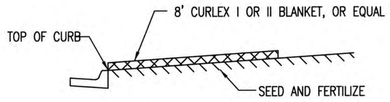
DATE: April 17, 2024

SHEET 35 OF 53

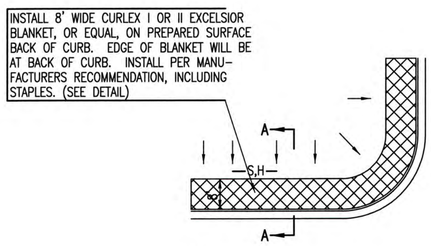
File: E:\Projects\Bridger At Central Addition(Albert) \Engineering\Phase 1\SWD 23-09-603SWD.dwg



SECTION B-B



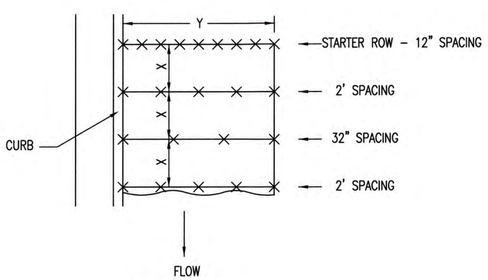
SECTION A-A

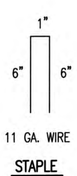


GENERAL NOTES

1. EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
2. EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
3. AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL



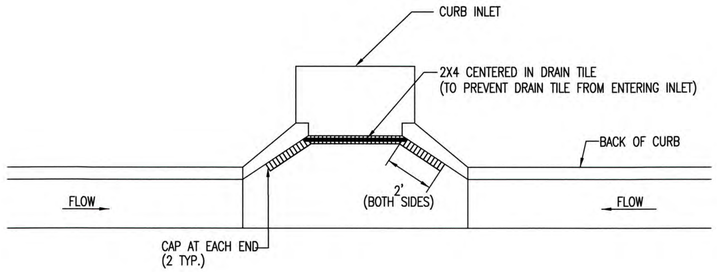


STAPLE

STAPLE PATTERN

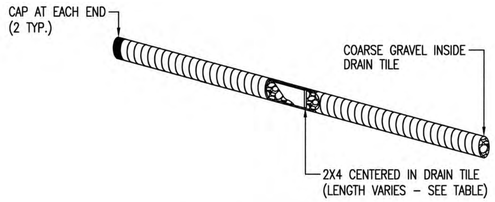
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT

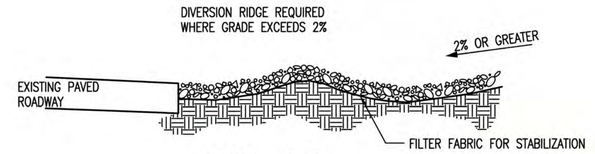


NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

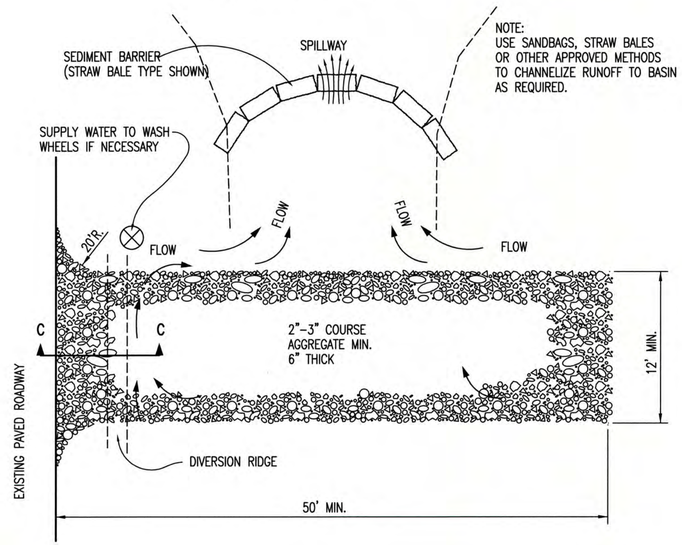
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED PROFESSIONAL KANSAS ENGINEER 16604
05/31/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		5/2013

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

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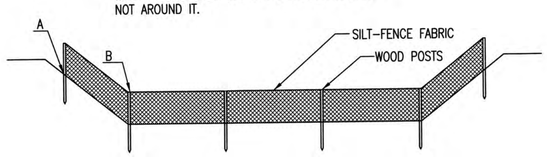
SW-501

NOTE: POINT A MUST BE HIGHER THAN POINT B SO THAT WATER FLOWS OVER THE SILT FENCE FABRIC AND NOT AROUND IT.



ELEVATION

SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED.
WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED.
SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.
SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.
SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH GRADE (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE.
EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK.
PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH.
PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSTREAM EDGE OF THE TRENCH.
LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.
LAY THE EXPOSED SILT FENCE ON THE UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART.
ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

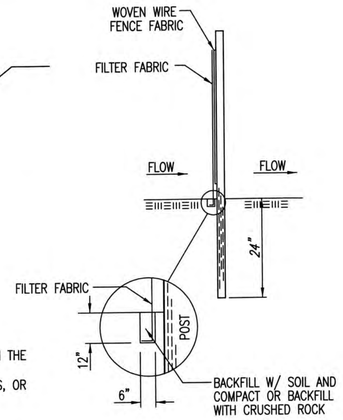
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK–NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM.
DO NOT PLACE SILT FENCE POSTS ON THE UPSTREAM SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE.
DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

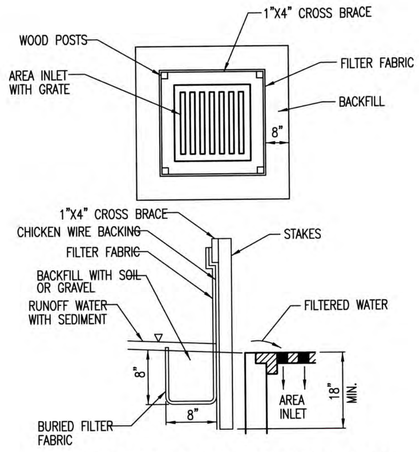
INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS.
SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED.
WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED.
WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME.
WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE.
DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET.
THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM.
CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING.
ATTACH THE WIRE OR POLYMERIC–MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.
ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

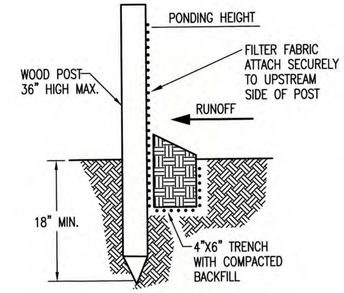
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET–NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED.
DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESISTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE SILT FENCE?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.
WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT–OF–WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE.
MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH.
PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT–FENCE FABRIC SHOULD REMAIN EXPOSED.
LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18".
PLACE POSTS NO MORE THAN 4' APART.
ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES.
DO NOT PLACE SILT–FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT.
SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND–SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DO THE SILT FENCES SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

SILT FENCE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		5/2013

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
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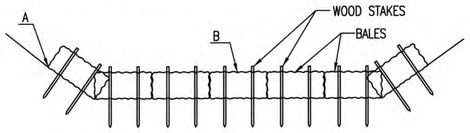
SW-502

NOTE: POINT A MUST BE HIGHER THAN POINT B
SO THAT WATER FLOWS OVER THE BALES AND
NOT AROUND THEM.



STRAW BALE DITCH CHECKS

MATERIAL SPECIFICATION:

BALE DITCH CHECKS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
OPTIONAL: THE DOWNSTREAM SCOUR APRON SHOULD BE CONSTRUCTED OF A DOUBLE-NETTED STRAW EROSION-CONTROL BLANKET AT LEAST 6' WIDE.
OPTIONAL: THE METAL LANDSCAPE STAPLES USED TO ANCHOR THE EROSION-CONTROL BLANKET SHOULD BE AT LEAST 8" LONG.

PLACEMENT:

BALE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
THE DITCH CHECK SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.
STRAW BALE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.
BALES SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.
THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH GRADE (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH-IT WILL BE USED LATER.
OPTIONAL: ON THE DOWNSTREAM SIDE OF THE TRENCH, ROLL OUT A LENGTH OF EROSION-CONTROL BLANKET (SCOUR APRON) EQUAL TO THE LENGTH OF THE TRENCH. PLACE THE UPSTREAM EDGE OF THE EROSION-CONTROL BLANKET ALONG THE BOTTOM UPSTREAM EDGE OF THE TRENCH. THE EROSION CONTROL BLANKET SHOULD BE ANCHORED IN THE TRENCH WITH ONE ROW OF 8" LANDSCAPE STAPLES PLACED ON 18" CENTERS. THE REMAINDER OF THE EROSION-CONTROL BLANKET (THE PORTION THAT IS NOT LYING IN THE TRENCH) WILL SERVE AS THE DOWNSTREAM SCOUR APRON. THIS SECTION OF THE BLANKET SHOULD BE ANCHORED TO THE GROUND WITH 8" LANDSCAPE STAPLES PLACED AROUND THE PERIMETER OF THE BLANKET ON 18" CENTERS. THE REMAINDER OF THE BLANKET SHOULD BE ANCHORED USING TWO EVENLY SPACED ROWS OF 8" LANDSCAPE STAPLES ON 18" CENTERS PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSTREAM SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP AND EXTEND UPSTREAM NO MORE THAN 24".

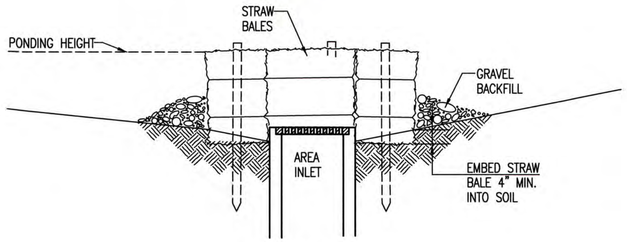
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

DO NOT PLACE A BALE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
DO NOT PLACE BALE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
FOLLOW PRESCRIBED DITCH-CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE.
DO NOT PLACE BALE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
BALE DITCH CHECKS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE CHECK.

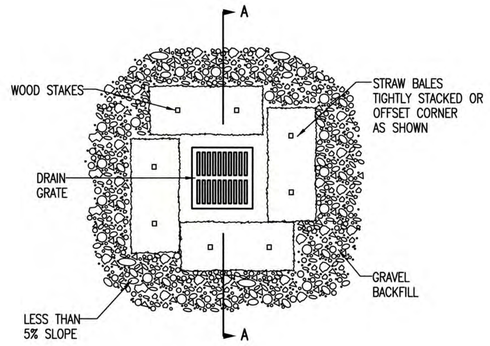
INSPECTION AND MAINTENANCE:

BALE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES AND/OR SCOUR APRONS (OPTIONAL) DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



SECTION A-A



STRAW BALE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

BALE AREA INLET BARRIERS SHOULD BE PLACED DIRECTLY AROUND THE PERIMETER OF A DROP INLET.
WHEN A BALE AREA INLET BARRIER IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS.
STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.
NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

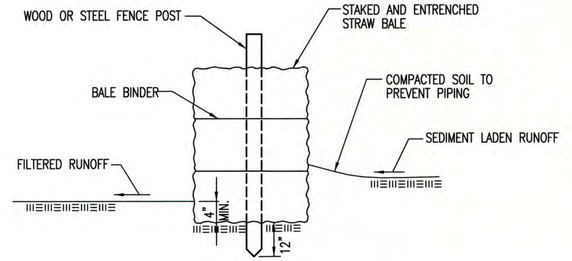
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR.
BALE AREA INLET BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE AREA INLET BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE AREA INLET BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



STRAW BALE BARRIERS

MATERIAL SPECIFICATION:

BALE SLOPE BARRIERS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE.
THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.
WHEN PRACTICABLE, BALE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
BALE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.
PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND.
ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICAL, DO NOT PLACE BALE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER. THE SCOUR HOLE EVENTUALLY UNDERMINES THE BALES AND THE BARRIER FAILS.
DO NOT PLACE BALE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
BALE SLOPE BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER
05/30/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STRAW BALE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		5/2013

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
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SW-503

GENERAL NOTES

1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.

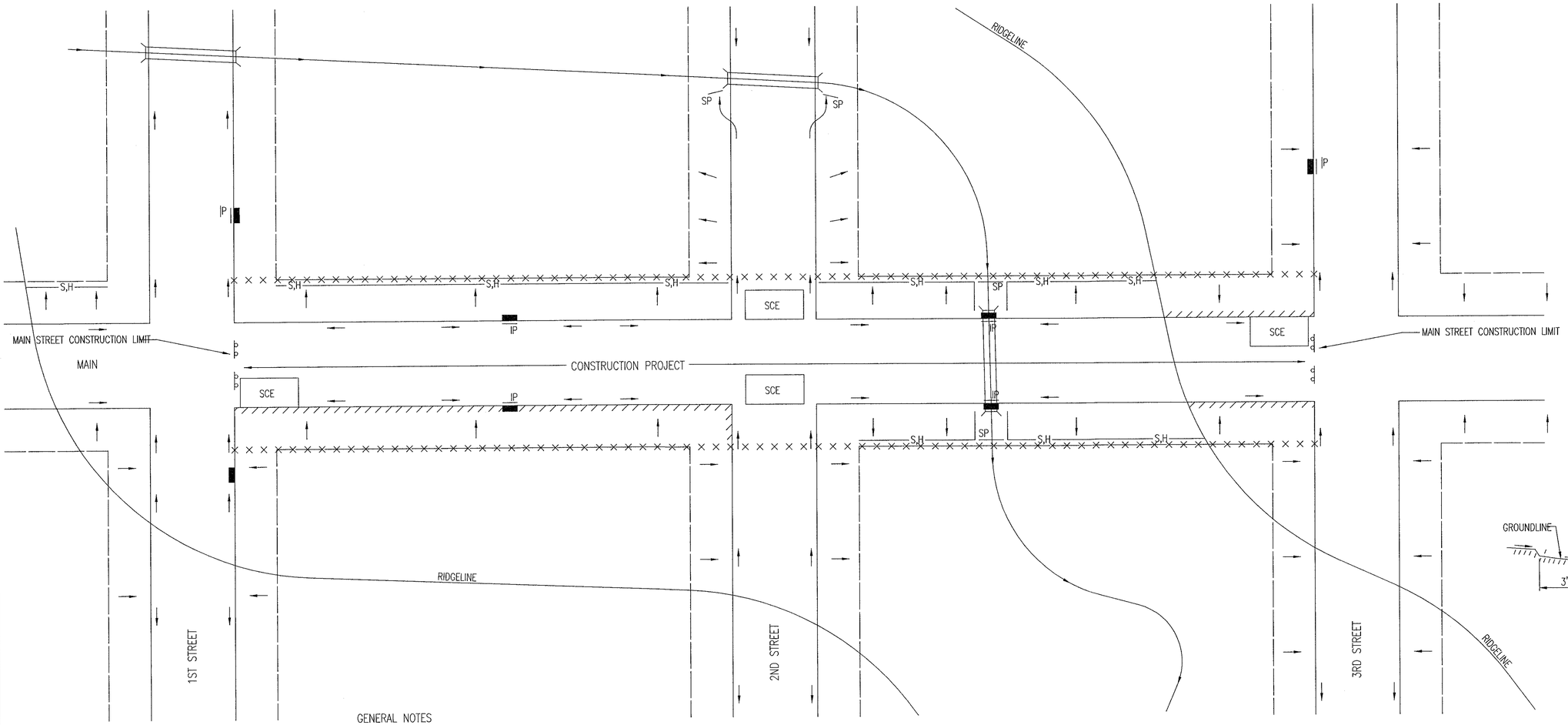
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.

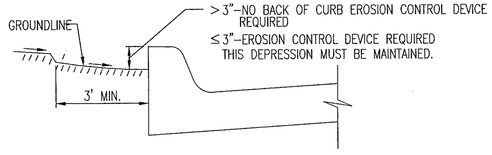
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.

4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.

5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.

6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.





CURB BACKFILL DETAIL

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

LEGEND

- R-O-W LIMITS
- DRAINAGE FLOW PATH
- R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP — INLET PROTECTION
- S,H — SILT FENCE OR HAY BALE BARRIER
- SP — STREAM PROTECTION
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- BACK OF CURB PROTECTION

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.

2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.

3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.

4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.

5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.

6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.

7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.

8. THE CONTACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
   A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs – BACK OF CURB SEDIMENT BARRIER DETAILS)
   B. THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
   C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
   D. SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

GARY L. JANZEN — LICENSED — 16294 — KANSAS — PROFESSIONAL ENGINEER
06/05/15

REVISION: JUNE 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STREET IMPROVEMENT PROJECTS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		11/2015

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
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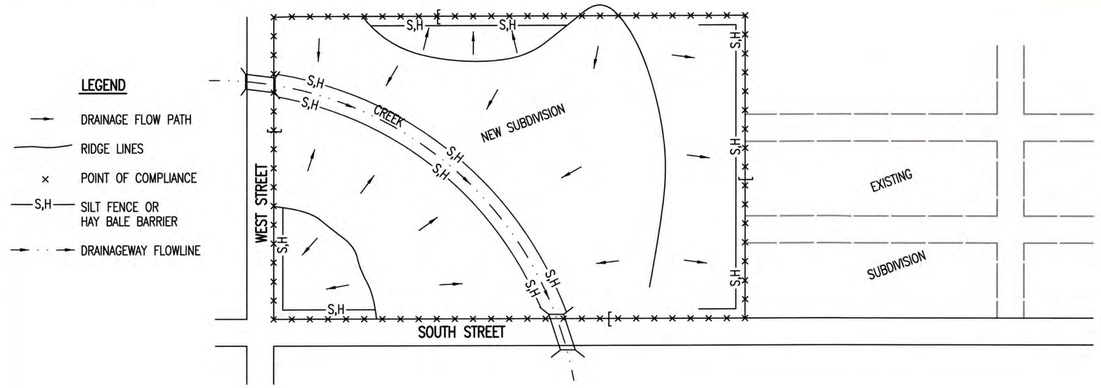
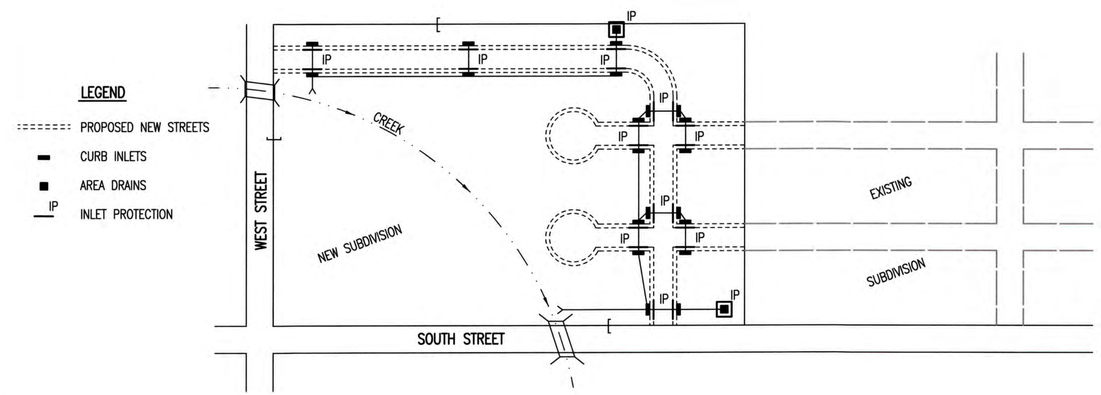
SW-504

PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



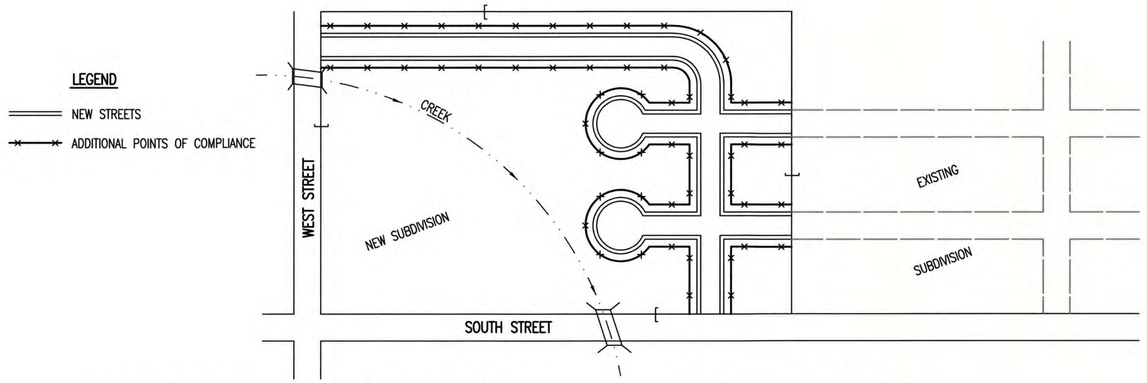
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
2. HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
3. SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
5. CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE DEVICES UNTIL COMPLETION OF THE CONTRACT, AT WHICH TIME THE DEVELOPER WILL ASSUME MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
8. WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 2 – INSTALLATION OF STORM SEWER



1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
7. ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS IF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION.
8. ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

PHASE 3 – STREET CONSTRUCTION

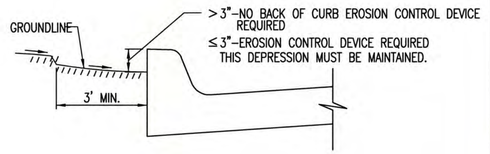


1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
2. CURB OPENING INLET PROTECTION:
   A. SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
   B. NON–SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
3. EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 3" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). FOR CURBS NOT YET ENTIRELY BACKFILLED (3" OR MORE BELOW TOP OF CURB), ADDITIONAL DEVICES WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
4. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
5. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCELSIOR MATS.
6. THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
7. THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
2. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
3. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
4. PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
5. THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
6. FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
7. FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
8. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE DEVICES OTHER THAN THAT SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
9. A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE, OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.

SEE DETAIL SHEET FOR BACK OF CURB PROTECTION DETAIL



CURB BACKFILL DETAIL (STREET CONSTRUCTION ONLY)

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER
05/13/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

SUBDIVISION DEVELOPMENT PROCESS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		5/2013

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
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SW–505

BRENT WOOTEN LICENSED
8470
09/03/2024
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 41 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BRENT WOOTEN
LICENSED
8470
09/03/2024
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
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BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 42 OF 53

File: E:\Projects\Bridger At Central Addition(Albert) \Engineering\Phase 1\SWD 23-09-603SWD.dwg

BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY

315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 43 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

LIMUEL

BIRCH

WHEATLAND AVE

MURDOCK

EATLAND AVE

1353.40

1284 1352.70

1285 1353.60

1288 1354.00

1254 1352.70 | 1253 1352.00 | 1250 1350.70 | 1249 1351.60 | 1246 1351.60 | 1245 1350.70 | 1242 1349.80 | 1241 1348.80 | 1238 1347.80 | 1237 1346.50

1255 1353.90 | 1252 1353.40 | 1251 1352.90 | 1248 1352.40 | 1247 1351.90 | 1244 1351.40 | 1243 1350.80 | 1240 1349.20 | 1239 1348.60

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1208 1352.40 | 1209 1353.00 | 1210 1353.20 | 1211 1352.60 | 1212 1352.00 | 1213 1351.30 | 1214 1350.60 | 1215 1348.60

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1373 1347.20 | 1374 1344.00

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20 | 19 | 18 | 17 | 16 | 15

K

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1360 1348.50 | 1361 1348.00

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9

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40 0 40

Scale: 1"=40'

I, BRENT WOOTEN
LICENSED
8470
09/03/2024
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY

315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 44 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603SWD.dwg

WHEATLAND AVE

BEKEMEYER

CINDY

RES. "A"

40 0 40

Scale: 1"=40'

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1349 1347.00
1347 1348.50
1346 1347.50
1344 1348.90
1345 1347.50
1343 1347.90
1342 1347.50

8470
09/03/2024
KANSAS
BRENT WOOTEN LICENSED PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 45 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_1Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BRENT WOOTEN
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BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 46 OF 53

File: E:\Projects\Bridger At Central Addition\Albert\ \Engineering\Phase 1\SWD 23-09-603\SWD.dwg

MASS GRADING

Point Table			
Point #	Northing	Easting	Elevation
1000	1687989.34	1603658.75	1348.30
1001	1687986.08	1603528.79	1348.50
1002	1688070.05	1603526.68	1348.00
1003	1688073.31	1603656.64	1347.90
1004	1688167.28	1603654.28	1347.40
1005	1688164.02	1603524.32	1347.00
1006	1688253.99	1603522.06	1347.00
1007	1688257.25	1603652.02	1348.00
1008	1688371.87	1603645.38	1348.80
1009	1688342.18	1603519.85	1348.00
1010	1688433.66	1603498.22	1348.50
1011	1688465.68	1603633.64	1349.20
1012	1688548.41	1603618.46	1349.60
1013	1688515.41	1603478.89	1348.50
1014	1688597.15	1603459.56	1348.50
1015	1688630.10	1603598.90	1349.00
1016	1688710.75	1603574.94	1348.40
1017	1688678.90	1603440.23	1348.50
1018	1688760.64	1603420.91	1349.00
1019	1688828.29	1603531.30	1349.10
1020	1688912.15	1603493.35	1349.90
1021	1688838.52	1603373.19	1349.50
1022	1688910.14	1603329.30	1350.00
1023	1688986.79	1603454.39	1350.60
1024	1689059.07	1603411.58	1351.30
1025	1688981.76	1603285.41	1350.00
1026	1689053.38	1603241.52	1350.50
1027	1689129.00	1603364.92	1350.60
1028	1689145.30	1603353.25	1350.60
1029	1689069.16	1603228.99	1350.50
1030	1689135.13	1603162.44	1350.80
1031	1689246.70	1603273.05	1351.20
1032	1689308.97	1603216.50	1351.60
1033	1689194.27	1603102.79	1351.50
1034	1689253.41	1603043.13	1351.00
1035	1689368.05	1603156.78	1352.30
1036	1689430.35	1603086.19	1351.60
1037	1689319.59	1602976.38	1350.50
1038	1689378.73	1602916.72	1351.00
1039	1689482.61	1603019.71	1351.50
1040	1689532.18	1602950.58	1351.90
1041	1689437.87	1602857.07	1351.50
1042	1689519.78	1602774.45	1352.00
1043	1689591.12	1602900.80	1352.40
1044	1689665.29	1602875.90	1352.90
1045	1689647.73	1602745.37	1352.50
1046	1689742.37	1602742.23	1352.50
1047	1689746.67	1602872.16	1353.40
1048	1689830.63	1602869.38	1353.50
1049	1689826.32	1602739.45	1352.50
1050	1689910.28	1602736.67	1352.00
1051	1689914.58	1602866.60	1353.00
1052	1690007.36	1602863.53	1352.50
1053	1690122.84	1602896.97	1353.20
1054	1690140.49	1602774.60	1353.50
1055	1690004.57	1602779.10	1354.00
1056	1690001.59	1602689.15	1353.00
1057	1690137.51	1602684.64	1352.90
1058	1690134.53	1602594.69	1353.40
1059	1689998.61	1602599.20	1352.00
1060	1689997.51	1602565.86	1352.00
1061	1690092.60	1602510.33	1354.10

Point Table			
Point #	Northing	Easting	Elevation
1062	1690100.64	1602460.15	1354.50
1063	1690315.12	1602367.75	1354.20
1064	1690317.60	1602442.71	1354.80
1065	1690178.93	1602461.78	1354.30
1066	1690189.66	1602506.98	1353.80
1067	1690319.59	1602502.68	1354.50
1068	1690321.58	1602562.65	1354.00
1069	1690191.65	1602566.95	1353.50
1070	1690193.63	1602626.92	1353.20
1071	1690323.56	1602622.61	1353.70
1072	1690325.55	1602682.58	1353.50
1073	1690195.62	1602686.88	1352.90
1074	1690197.61	1602746.85	1353.30
1075	1690327.53	1602742.55	1353.30
1076	1690329.52	1602802.51	1353.00
1077	1690199.59	1602806.82	1353.70
1078	1690196.10	1602866.97	1353.60
1079	1690331.51	1602862.48	1353.30
1080	1690333.49	1602922.45	1353.40
1081	1690171.97	1602927.80	1353.30
1082	1690194.59	1602987.08	1353.60
1083	1690335.48	1602982.42	1353.20
1084	1690337.47	1603042.38	1353.10
1085	1690207.49	1603046.69	1353.90
1086	1690210.02	1603121.65	1354.30
1087	1690339.95	1603117.34	1353.60
1088	1687795.13	1604600.48	1343.00
1089	1687920.09	1604597.35	1344.50
1090	1687918.21	1604522.37	1344.00
1091	1687793.25	1604525.51	1343.50
1092	1687791.75	1604465.53	1343.70
1093	1687916.71	1604462.39	1344.70
1094	1687915.20	1604402.41	1345.20
1095	1687790.24	1604405.54	1344.20
1096	1687788.73	1604345.56	1344.50
1097	1687893.99	1604342.92	1346.50
1098	1687903.17	1604299.43	1346.90
1099	1687785.24	1604206.28	1345.80
1100	1687784.19	1604164.34	1346.20
1101	1687938.14	1604160.47	1347.40
1102	1687941.15	1604280.43	1347.30
1103	1688087.09	1604156.73	1345.70
1104	1688088.32	1604205.78	1346.70
1105	1687980.42	1604297.94	1346.90
1106	1687991.58	1604339.47	1346.50
1107	1688091.61	1604336.96	1346.70
1108	1688093.04	1604393.94	1345.90
1109	1687973.08	1604396.95	1345.20
1110	1687974.51	1604453.94	1344.70
1111	1688094.47	1604450.92	1345.00
1112	1688096.16	1604517.90	1344.20
1113	1687976.19	1604520.91	1344.00
1114	1687978.08	1604595.89	1344.50
1115	1688098.04	1604592.88	1344.00
1116	1688221.12	1604514.77	1344.00
1117	1688218.61	1604414.80	1345.00
1118	1688093.65	1604417.94	1345.60
1119	1688091.14	1604317.97	1346.80
1120	1688216.10	1604314.83	1346.00
1121	1688240.88	1604214.37	1347.00
1122	1688088.63	1604218.19	1346.80
1123	1688086.05	1604115.46	1345.90

Point Table			
Point #	Northing	Easting	Elevation
1124	1688211.26	1604112.32	1348.20
1125	1688208.26	1604002.36	1349.00
1126	1688083.29	1604005.50	1347.00
1127	1688080.53	1603895.53	1348.30
1128	1688205.50	1603892.40	1349.70
1129	1688202.99	1603792.43	1348.70
1130	1688078.03	1603795.56	1349.30
1131	1688076.14	1603720.59	1348.00
1132	1688201.10	1603717.45	1347.70
1133	1687956.18	1603723.60	1348.90
1134	1687958.06	1603798.58	1349.40
1135	1687959.57	1603858.56	1349.70
1136	1688079.53	1603855.55	1348.70
1137	1688081.04	1603915.53	1348.00
1138	1687961.07	1603918.54	1349.60
1139	1687982.28	1603978.02	1349.00
1140	1688082.54	1603975.51	1347.50
1141	1687972.52	1604022.25	1348.30
1142	1687935.13	1604040.51	1348.00
1143	1687896.24	1604023.45	1348.30
1144	1687783.13	1604122.39	1347.00
1145	1687779.64	1603983.11	1348.50
1146	1687884.89	1603980.47	1349.00
1147	1687903.09	1603919.99	1349.60
1148	1687778.13	1603923.13	1349.00
1149	1687776.63	1603863.15	1349.00
1150	1687901.59	1603860.01	1349.70
1151	1687900.08	1603800.03	1349.40
1152	1687775.12	1603803.17	1349.00
1153	1687773.24	1603728.19	1349.40
1154	1687898.20	1603725.05	1348.90
1155	1688294.34	1604178.48	1347.20
1156	1688406.58	1604172.25	1348.20
1157	1688404.12	1604074.28	1349.10
1158	1688274.16	1604077.54	1348.40
1159	1688271.83	1603984.57	1349.00
1160	1688401.79	1603981.31	1349.90
1161	1688399.45	1603888.34	1350.70
1162	1688269.50	1603891.60	1349.70
1163	1688267.41	1603808.63	1348.90
1164	1688397.37	1603805.37	1349.80
1165	1688394.91	1603707.40	1348.80
1166	1688265.08	1603715.85	1348.00
1167	1688519.05	1603689.49	1349.80
1168	1688527.33	1603802.11	1350.30
1169	1688529.41	1603885.08	1350.50
1170	1688531.75	1603978.05	1349.90
1171	1688534.08	1604071.02	1349.30
1172	1688536.57	1604170.23	1348.60
1173	1688600.57	1604169.24	1348.60
1174	1688730.56	1604167.23	1347.10
1175	1688728.20	1604073.25	1348.50
1176	1688598.24	1604076.52	1349.30
1177	1688595.63	1603972.55	1349.90
1178	1688725.59	1603969.29	1349.50
1179	1688722.98	1603865.32	1350.50
1180	1688593.02	1603868.58	1350.60
1181	1688590.66	1603774.61	1350.20
1182	1688720.62	1603771.35	1350.50
1183	1688717.33	1603640.05	1348.50
1184	1688581.82	1603676.68	1349.90
1185	1688828.64	1603600.27	1349.40

Point Table			
Point #	Northing	Easting	Elevation
1186	1688850.58	1603768.09	1351.90
1187	1688852.94	1603862.06	1351.00
1188	1688855.55	1603966.03	1350.00
1189	1688858.16	1604069.99	1349.00
1190	1688860.55	1604165.21	1347.90
1191	1689054.53	1604162.20	1347.50
1192	1688924.54	1604164.21	1348.30
1193	1688922.26	1604073.49	1349.00
1194	1689052.22	1604070.23	1349.80
1195	1689049.92	1603978.26	1350.80
1196	1688919.96	1603981.52	1349.90
1197	1688917.65	1603889.55	1350.70
1198	1689047.61	1603886.28	1351.70
1199	1689045.55	1603804.31	1352.50
1200	1688915.59	1603807.57	1351.50
1201	1688913.53	1603725.60	1352.30
1202	1689043.49	1603722.34	1353.40
1203	1689041.43	1603640.36	1352.30
1204	1688905.74	1603643.77	1350.70
1205	1688887.76	1603575.34	1349.50
1206	1689037.89	1603499.01	1350.90
1207	1689066.02	1603482.45	1351.40
1208	1689169.58	1603564.98	1352.40
1209	1689171.39	1603637.10	1353.00
1210	1689173.45	1603719.07	1353.20
1211	1689175.51	1603801.05	1352.60
1212	1689177.57	1603883.02	1352.00
1213	1689179.87	1603974.99	1351.30
1214	1689182.18	1604066.96	1350.60
1215	1689184.52	1604160.18	1348.60
1216	1689248.52	1604159.18	1349.70
1217	1689378.51	1604157.17	1351.20
1218	1689376.00	1604057.20	1351.20
1219	1689246.04	1604060.46	1350.60
1220	1689243.91	1603975.49	1351.30
1221	1689373.87	1603972.23	1350.30
1222	1689371.48	1603877.26	1351.30
1223	1689241.52	1603880.52	1352.00
1224	1689239.14	1603785.55	1352.70
1225	1689369.10	1603782.29	1352.30
1226	1689366.97	1603697.31	1353.30
1227	1689237.01	1603700.58	1353.40
1228	1689234.15	1603586.90	1352.50
1229	1689364.30	1603591.21	1353.30
1230	1689494.24	1603586.91	1354.20
1231	1689496.93	1603694.05	1353.30
1232	1689499.06	1603779.03	1352.80
1233	1689501.44	1603874.00	1352.30
1234	1689503.83	1603968.97	1351.80
1235	1689505.96	1604053.94	1351.30
1236	1689497.28	1604166.97	1349.80
1237	1689696.86	1604446.12	1346.50
1238	1689694.84	1604316.06	1347.80
1239	1689561.91	1604319.40	1348.60
1240	1689551.34	1604222.35	1349.20
1241	1689693.33	1604218.79	1348.80
1242	1689711.71	1604121.01	1349.80
1243	1689571.67	1604124.53	1350.80
1244	1689569.64	1604040.55	1351.40
1245	1689709.60	1604037.04	1350.70
1246	1689707.49	1603953.07	1351.60
1247	1689567.53	1603956.58	1351.90

Point Table			
Point #	Northing	Easting	Elevation
1248	1689565.18	1603862.61	1352.40
1249	1689705.13	1603859.10	1351.60
1250	1689702.77	1603765.13	1350.70
1251	1689562.82	1603768.64	1352.90
1252	1689560.71	1603684.67	1353.40
1253	1689700.67	1603681.15	1352.00
1254	1689698.13	1603580.16	1352.70
1255	1689558.20	1603584.79	1353.90
1256	1689840.22	1603677.65	1352.30
1257	1689843.00	1603761.61	1351.90
1258	1689846.11	1603855.56	1351.40
1259	1689849.22	1603949.51	1350.90
1260	1689852.00	1604033.47	1350.40
1261	1689858.99	1604117.32	1349.60
1262	1689819.12	1604215.63	1349.20
1263	1689820.65	1604312.91	1348.70
1264	1689822.71	1604444.15	1347.70
1265	1690047.65	1604079.89	1347.00
1266	1689919.67	1604085.94	1349.70
1267	1689914.44	1603985.25	1350.70
1268	1690044.37	1603980.94	1348.00
1269	1690041.59	1603896.99	1348.90
1270	1689911.66	1603901.30	1351.10
1271	1689908.88	1603817.34	1351.60
1272	1690038.81	1603813.03	1349.70
1273	1690036.03	1603729.08	1350.60
1274	1689906.10	1603733.39	1352.00
1275	1689903.32	1603649.43	1352.50
1276	1690033.25	1603645.12	1350.00
1277	1690028.92	1603514.37	1351.00
1278	1690024.31	1603375.25	1352.60
1279	1689940.78	1603378.01	1353.30
1280	1689848.66	1603529.44	1353.10
1281	1689782.90	1603513.31	1353.40
1282	1689778.59	1603383.38	1353.00
1283	1689686.64	1603386.43	1352.00
1284	1689690.95	1603516.36	1352.70
1285	1689599.00	1603519.40	1353.60
1286	1689594.70	1603389.47	1353.00
1287	1689512.74	1603392.19	1352.20
1288	1689517.04	1603522.12	1354.00
1289	1689508.44	1603262.22	1352.90
1290	1689601.52	1603259.18	1352.10
1291	1689605.82	1603389.11	1352.90
1292	1689695.78	1603386.13	1352.00
1293	1689691.47	1603256.20	1351.40
1294	1689781.42	1603253.22	1352.10
1295	1689785.73	1603383.15	1353.00
1296	1689902.36	1603379.29	1353.70
1297	1689857.82	1603268.67	1352.90
1298	1690019.05	1603216.33	1354.10
1299	1689889.12	1603220.64	1353.40
1300	1690013.79	1603057.42	1352.30
1301	1689891.81	1603061.46	1354.10
1302	1689854.71	1603174.77	1352.90
1303	1689779.50	1603195.25	1352.10
1304	1689775.20	1603065.32	1352.90
1305	1689685.25	1603068.30	1352.00
1306	1689689.55	1603198.23	1351.40
1307	1689599.60	1603201.21	1352.10
1308	1689595.30	1603071.28	1352.90
1309	1689522.06	1603073.71	1351.40

Point Table			
Point #	Northing	Easting	Elevation
1310	1689430.59	1603183.40	1352.20
1311	1689664.90	1602940.82	1352.90
1312	1689669.14	1603068.83	1352.20
1313	1689753.09	1603066.05	1352.60
1314	1689748.79	1602936.13	1353.40
1315	1689832.74	1602933.35	1353.50
1316	1689837.05	1603063.27	1353.50
1317	1689921.00	1603060.49	1353.60
1318	1689916.70	1602930.56	1353.00
1319	1690009.48	1602927.49	1352.50
1320	1690015.20	1603100.13	1352.70
1321	1690145.13	1603095.83	1354.10
1322	1690148.08	1603185.04	1354.30
1323	1690018.15	1603189.35	1353.60
1324	1690021.07	1603277.30	1353.60
1325	1690151.00	1603273.00	1353.00
1326	1690154.24	1603370.94	1351.40
1327	1690157.29	1603462.89	1351.00
1328	1690027.36	1603467.20	1351.50
1329	1690030.07	1603549.15	1350.70
1330	1690160.00	1603544.85	1350.60
1331	1690162.71	1603626.80	1350.20
1332	1690032.79	1603631.11	1349.90
1333	1690035.50	1603713.06	1350.70
1334	1690165.43	1603708.76	1349.70
1335	1690168.14	1603790.71	1349.40
1336	1690038.21	1603795.02	1349.90
1337	1690040.93	1603876.97	1349.00
1338	1690170.86	1603872.67	1348.90
1339	1690173.64	1603956.62	1348.50
1340	1690043.71	1603960.93	1348.20
1341	1688281.46	1604368.22	1345.40
1342	1688384.50	1604366.62	1347.50
1343	1688382.48	1604236.63	1347.90
1344	1688474.47	1604235.21	1348.90
1345	1688476.49	1604365.19	1347.50
1346	1688558.48	1604363.92	1347.50
1347	1688556.46	1604233.93	1348.50
1348	1688638.45	1604232.66	1347.90
1349	1688640.47	1604362.65	1347.00
1350	1688732.46	1604361.22	1347.00
1351	1688730.44	1604231.23	1347.10
1352	1688824.43	1604229.77	1347.60
1353	1688826.45	1604359.76	1347.00
1354	1688910.44	1604358.45	1347.50
1355	1688908.42	1604228.47	1348.20
1356	1688992.41	1604227.17	1347.90
1357	1688994.43	1604357.15	1347.00
1358	1689086.42	1604355.72	1347.00
1359	1689084.40	1604225.74	1347.40
1360	1689178.39	1604224.28	1348.50
1361	1689180.40	1604354.26	1348.00
1362	1689264.39	1604352.96	1348.00
1363	1689262.38	1604222.98	1349.70
1364	1689346.37	1604221.67	1350.70
1365	1689348.38	1604351.66	1348.00
1366	1689366.36	1604221.36	1351.20
1367	1689368.38	1604351.35	1348.00
1368	1689498.37	1604349.33	1348.40
1369	1689506.43	1604439.16	1347.70
1370	1689370.54	1604490.67	1347.50
1371	1689372.94	1604645.23	1344.20

Point Table			
Point #	Northing	Easting	Elevation
1372	1689533.21	1604479.89	1347.40
1373	1689575.14	1604505.51	1347.20
1374	1689528.51	1604642.79	1344.00
1375	1689630.78	1604641.18	1344.70
1376	1689628.74	1604511.20	1346.90
1377	1689688.73	1604510.26	1346.50
1378	1689690.77	1604640.24	1344.80
1379	1689750.77	1604639.30	1345.10
1380	1689748.72	1604509.32	1346.90
1381	1689823.72	1604508.14	1347.50
1382	1689825.76	1604638.12	1349.20
1383	1689889.28	1604607.13	1347.20
1384	1690065.02	1604604.37	1347.10
1385	1690063.10	1604546.39	1346.50
1386	1689888.37	1604549.13	1347.40
1387	1689887.46	1604491.14	1347.70
1388	1690061.18	1604488.41	1347.10
1389	1690058.50	1604407.44	1347.90
1390	1689886.18	1604410.15	1348.20
1391	1689884.76	1604319.16	1348.70
1392	1690055.48	1604316.48	1348.10
1393	1690052.47	1604225.52	1347.80
1394	1689883.33	1604228.17	1349.20
1395	1690049.77	1604143.85	1347.00
1396	1690054.07	1604273.78	1348.60
1397	1690146.03	1604270.73	1349.40
1398	1690141.64	1604138.50	1347.30
1399	1690189.34	1604116.33	1347.50
1400	1690301.70	1604265.57	1347.60
1401	1690377.94	1604263.04	1348.60
1402	1690374.95	1604172.85	1348.30
1403	1690221.54	1604080.60	1347.70
1404	1690238.00	1604035.41	1347.80
1405	1690371.09	1604056.52	1348.40
1406	1690368.41	1603975.87	1348.70
1407	1690238.45	1603980.17	1348.40
1408	1690236.47	1603920.21	1348.70
1409	1690366.43	1603915.90	1348.80
1410	1690364.44	1603855.94	1349.50
1411	1690234.48	1603860.24	1349.00
1412	1690232.49	1603800.27	1349.30
1413	1690362.45	1603795.97	1349.50
1414	1690360.46	1603736.00	1349.60
1415	1690230.51	1603740.31	1349.60
1416	1690228.52	1603680.34	1349.90
1417	1690358.47	1603676.04	1349.60
1418	1690356.48	1603616.07	1349.60
1419	1690226.54	1603620.37	1350.20
1420	1690222.56	1603500.44	1350.80
1421	1690352.50	1603496.13	1349.90
1422	1690350.58	1603438.17	1349.90
1423	1690220.64	1603442.47	1351.00
1424	1690218.43	1603375.51	1351.40
1425	1690348.36	1603371.20	1350.50
1426	1690346.14	1603304.24	1351.40
1427	1690216.21	1603308.54	1352.40
1428	1690214.32	1603251.57	1353.40
1429	1690344.25	1603247.27	1352.20
1430	1690342.07	1603181.31	1353.60
1431	1690212.14	1603185.61	1354.30

BRENT WOOTEN
LICENSED
8470
09/03/2024
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 47 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

IRONS

Point Table			
Point #	Northing	Easting	Raw Description
1	1687771.11	1603643.22	iron
2	1687773.24	1603728.19	iron
3	1687821.09	1603641.96	iron
4	1687896.59	1603661.07	iron
5	1687898.20	1603725.05	iron
6	1687903.86	1603950.54	iron
7	1687961.84	1603949.08	iron
8	1687956.18	1603723.60	iron
9	1688201.10	1603717.45	iron
10	1688210.74	1604101.37	iron
11	1688274.72	1604099.75	iron
12	1688265.08	1603715.85	iron
13	1688263.48	1603651.87	iron
14	1688519.05	1603689.49	iron
15	1688526.63	1603773.98	iron
16	1688590.61	1603772.37	iron
17	1688581.82	1603676.68	iron
18	1688828.64	1603600.27	iron
19	1688849.33	1603718.42	iron
20	1688913.31	1603716.81	iron
21	1688887.76	1603575.34	iron
22	1689066.02	1603482.45	iron
23	1689120.59	1603448.10	iron
24	1689390.09	1603226.27	iron
25	1689430.59	1603183.40	iron
26	1689510.67	1603204.15	iron
27	1689512.59	1603262.12	iron
28	1689799.40	1603252.62	iron
29	1689797.48	1603194.66	iron
30	1689574.54	1603000.79	iron
31	1689521.58	1602964.85	iron
32	1689686.06	1602874.20	iron
33	1689688.16	1602938.16	iron
34	1690009.48	1602927.49	iron
35	1690007.36	1602863.53	iron
36	1690122.84	1602896.97	iron
37	1690165.94	1602937.06	iron
38	1690200.07	1602821.23	iron
39	1690142.10	1602823.15	iron
40	1690132.78	1602541.65	iron
41	1690189.11	1602490.40	iron
42	1690207.68	1603051.00	iron
43	1690143.71	1603053.12	iron
44	1690210.02	1603121.65	iron
45	1690212.14	1603185.61	iron
46	1690342.07	1603181.31	iron
47	1690339.95	1603117.34	iron
48	1690239.49	1604011.50	iron
49	1690175.53	1604013.61	iron
50	1690115.61	1604077.63	iron
51	1690117.74	1604141.60	iron
52	1689942.98	1604147.39	iron
53	1689940.86	1604083.43	iron
54	1689919.67	1604085.94	iron
55	1689861.42	1604115.11	iron
56	1689853.17	1604068.51	iron
57	1689917.13	1604066.39	iron

Point Table			
Point #	Northing	Easting	Raw Description
58	1689902.39	1603621.42	iron
59	1689838.43	1603623.54	iron
60	1689788.87	1603577.15	iron
61	1689786.75	1603513.19	iron
62	1689558.20	1603584.79	iron
63	1689494.24	1603586.91	iron
64	1689304.82	1603593.18	iron
65	1689302.70	1603529.22	iron
66	1689234.15	1603586.90	iron
67	1689169.58	1603564.98	iron
68	1689883.05	1604210.33	iron
69	1689819.05	1604211.34	iron
70	1689889.28	1604607.13	iron
71	1689889.75	1604637.12	iron
72	1689825.76	1604638.12	iron
73	1689823.72	1604508.14	iron
74	1689822.71	1604444.15	iron
75	1689612.92	1604511.45	iron
76	1689611.91	1604447.46	iron
77	1689563.16	1604400.21	iron
78	1689499.17	1604401.20	iron
79	1689497.09	1604267.34	iron
80	1689561.09	1604266.34	iron
81	1689545.47	1604211.01	iron
82	1689497.28	1604166.97	iron
83	1689507.67	1604122.19	iron
84	1689571.65	1604120.59	iron
85	1689447.36	1604156.10	iron
86	1689448.35	1604220.09	iron
87	1689248.52	1604159.19	iron
88	1689184.52	1604160.18	iron
89	1688924.54	1604164.21	iron
90	1688860.55	1604165.21	iron
91	1688600.57	1604169.24	iron
92	1688536.57	1604170.24	iron
93	1688326.65	1604237.50	iron
94	1688325.66	1604173.51	iron
95	1688294.34	1604178.48	iron
96	1688240.88	1604214.37	iron
97	1688215.43	1604288.31	iron
98	1688279.41	1604286.70	iron
99	1688285.77	1604540.15	iron
100	1688221.79	1604541.76	iron
101	1688175.01	1604590.95	iron
102	1688176.62	1604654.93	iron
103	1687978.08	1604595.89	iron
104	1687920.09	1604597.35	iron
105	1687914.43	1604371.86	iron
106	1687972.42	1604370.41	iron
107	1687795.13	1604600.48	iron
108	1687796.74	1604664.46	iron
109	1687796.87	1604669.76	iron
110	1689030.65	1604650.57	iron
111	1690229.13	1604601.79	iron
112	1690224.90	1604471.86	iron
113	1690384.78	1604469.35	iron
114	1690346.47	1603314.15	iron

STORM WATER SEWER

Point Table			
Point #	Northing	Easting	Raw Description
7000	1688321.61	1604510.26	0+00
7001	1688273.64	1604508.45	0+48.0
7002	1688272.14	1604508.49	cen inside fc
7003	1688738.27	1604406.80	0+00
7004	1688736.48	1604219.80	1+87
7005	1688736.46	1604218.31	cen inside fc
7006	1688809.98	1604668.97	0+00
7007	1688809.54	1604641.20	0+27.8
7008	1689092.28	1604411.31	0+00
7009	1689089.22	1604214.33	1+97.0
7010	1689313.91	1604408.87	0+00
7011	1689374.30	1604346.25	0+87.0
7012	1689509.62	1604344.15	2+22.3
7013	1689511.12	1604344.13	cen inside fc
7014	1689549.16	1604324.71	cen inside fc
7015	1689550.66	1604324.68	2+67.8
7016	1689699.92	1604320.94	4+17.1
7017	1689832.06	1604317.62	5+49.2
7018	1689833.56	1604317.60	cen inside fc
7019	1688253.53	1603312.47	0+00
7020	1688250.56	1603366.39	0+54.0
7021	1688209.63	1603485.30	0+00
7022	1688168.89	1603519.20	0+53.0
7023	1688172.57	1603665.48	1+99.3
7024	1688172.60	1603666.98	cen inside fc
7025	1688339.26	1603487.11	0+00
7026	1688382.15	1603655.74	1+74.0
7027	1688382.30	1603657.24	cen inside fc
7028	1688677.50	1603399.29	0+00
7029	1688751.67	1603415.83	0+76.0
7030	1689062.84	1603228.25	4+39.3
7031	1689147.16	1603365.86	6+00.7
7032	1689148.04	1603367.07	cen inside fc
7033	1689170.45	1603398.18	cen inside fc
7034	1689171.32	1603399.40	6+42.1
7035	1689197.56	1603428.68	6+81.4
7036	1689487.59	1603388.02	0+00
7038	1689690.61	1603381.30	2+03.1
7039	1689790.56	1603377.99	3+03.1
7040	1690029.14	1603370.08	5+41.9
7041	1688241.67	1603341.16	weir
7042	1688231.74	1603340.00	weir
7043	1689089.20	1604212.83	cen inside fc
7044	1689328.94	1604598.30	0+00
7045	1689377.71	1604630.16	0+58.3

BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

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BaughmanCo.com

BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 48 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_1Engineering\Phase 1\SWD_23-09-603\SWD.dwg

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COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 49 OF 53

File: E:\Projects\Bridger At Central Addition(Albert) \Engineering\Phase 1\SWD_23-09-603\SWD.dwg

60 0 60

Scale: 1"=60'

RAINB

RAINBOW LAKE CT

RAINBOW LAKE

LIMUEL

WHEATLAND AVE

BIRCH

MURDOCK

BEKEMEYER

RES. "H"

RES. "A"

RES. "B"

33 iron
30 iron
31 iron
26 iron
27 iron
25 iron
24 iron
65 iron
64 iron
63 iron
62 iron
84 iron
83 iron
82 iron
81 iron
80 iron
77 iron
76 iron
75 iron
79 iron
78 iron
85 iron
86 iron
87 iron
66 iron
67 iron
88 iron
23 iron
22 iron
20 iron
89 iron
21 iron
19 iron
18 iron
90 iron
110 iron

7038 2+03.1
7036 0+00
7016 4+17.1
7015 2+67.8
7014 cen inside fc
7013 cen inside fc
7012 2+22.3
7011 1+87.0
7010 0+00
7045 0+58.3
7044 0+00
7034 6+42.1
7035 6+81.4
7033 cen inside fc
7032 cen inside fc
7031 6+00.7
7030 4+39.3
7029 0+76.0
7043 cen inside fc
7009 1+97.0
7008 0+00
7005 cen inside fc
7004 1+87
7003 0+00
7007 0+27.8
7006 0+00

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BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 17, 2024

SHEET 50 OF 53

File: E:\Projects\Bridger At Central Addition(Albert) \Engineering\Phase 1\SWD_23-09-603SWD.dwg

BRENT WOOTEN LICENSED 8470 09/03/2024 KANSAS PROFESSIONAL ENGINEER

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BRIDGER AT CENTRAL ADDITION - Ph. I

COORDINATE SHEET

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

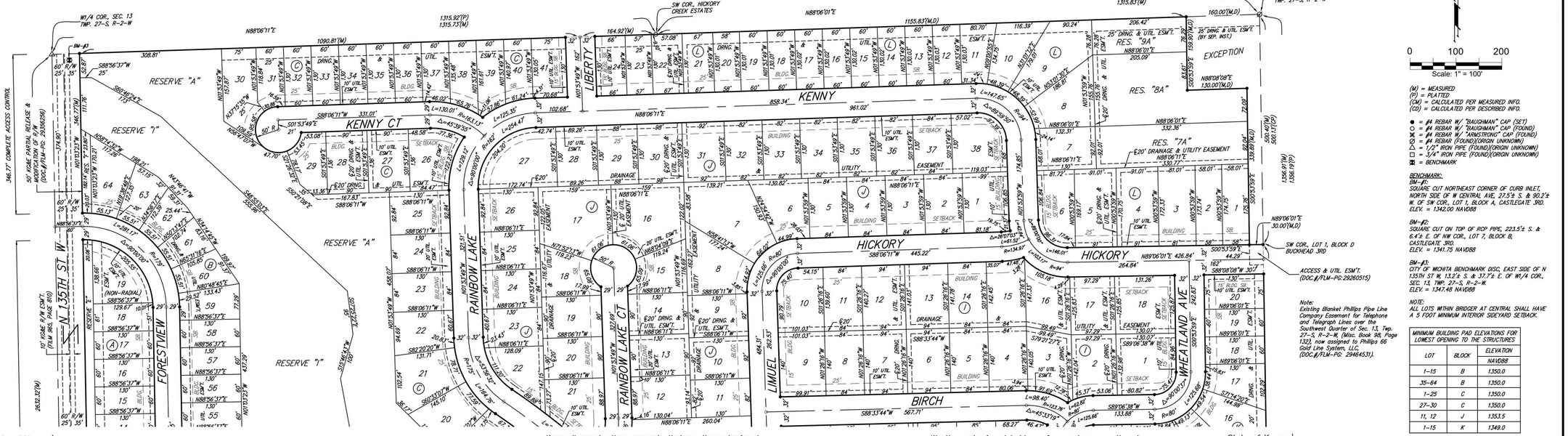
DATE: April 17, 2024

SHEET 51 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)_Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BRIDGER AT CENTRAL

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



(M) = MEASURED
(P) = PLATTED
(CM) = CALCULATED PER MEASURED INFO.
(CD) = CALCULATED PER DESCRIBED INFO.

● = #4 REBAR W/ "BAUGHMAN" CAP (SET)
○ = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
✕ = #4 REBAR W/ "ARMSTRONG" CAP (FOUND)
⊘ = #4 REBAR (FOUND)(ORIGIN UNKNOWN)
△ = 1/2" IRON PIPE (FOUND)(ORIGIN UNKNOWN)
□ = 3/4" IRON PIPE (FOUND)(ORIGIN UNKNOWN)
⊠ = BENCHMARK

BENCHMARK:
BM-#1:
SQUARE CUT NORTHEAST CORNER OF CURB INLET, NORTH SIDE OF W CENTRAL AVE, 27.5'± S. & 90.2'± W. OF SW COR., LOT 1, BLOCK A, CASTLEGATE 3RD. ELEV. = 1342.00 NAVD88

BM-#2:
SQUARE CUT ON TOP OF RCP PIPE, 223.5'± S. & 6.4'± E. OF NW COR., LOT 7, BLOCK B, CASTLEGATE 3RD. ELEV. = 1341.75 NAVD88

BM-#3:
CITY OF WICHITA BENCHMARK DISC, EAST SIDE OF N 135TH ST W, 13.2'± S. & 37.7'± E. OF W1/4 COR., SEC. 13, TWP. 27-S, R-2-W. ELEV. = 1347.48 NAVD88

NOTE:
ALL LOTS WITHIN BRIDGER AT CENTRAL SHALL HAVE A 5 FOOT MINIMUM INTERIOR SIDEYARD SETBACK.

Note:
Existing Blanket Phillips Pipe Line Company Easement for Telephone and Telegraph Lines over the Southwest Quarter of Sec. 13, Twp. 27-S, R-2-W. (Misc. Book 98, Page 132), now assigned to Phillips 66 Gold Line System, LLC. (DOC.#/FLM-PG: 29464531).

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES		
LOT	BLOCK	ELEVATION NAVD88
1–15	B	1350.0
35–64	B	1350.0
1–25	C	1350.0
27–30	C	1350.0
11, 12	J	1353.5
1–15	K	1349.0

State of Kansas)
Sedgwick County) SS

We, Baughman Company, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "BRIDGER AT CENTRAL", an Addition to Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as the North Half of the North Half of the West Half of the Southwest Quarter of Section 13, Township 27 South, Range 2 West of the Sixth Principal Meridian, Sedgwick County, Kansas; TOGETHER WITH the South Half of the North Half of the West Half of said Southwest Quarter; TOGETHER WITH the South Half of the West Half of said Southwest Quarter; TOGETHER WITH the East Half of said Southwest Quarter; EXCEPT that portion described as follows: Beginning at the southwest corner of Lot 1, Block D, Buckhead 3rd Addition, Wichita, Sedgwick County, Kansas; THENCE N00°53'59"W, coincident with the west boundary line of said Buckhead 3rd, a distance of 500.40 feet, to the northwest corner of said Buckhead 3rd, said corner also being the northeast corner of said Southwest Quarter; THENCE S88°06'01"W, coincident with the north line of said Southwest Quarter, a distance of 160.00 feet, to the northerly prolongation of the west line of a "Lease Area" as described in Doc#FLM–Pg: 29260515, as filed with the Register of Deeds office, Sedgwick County, Kansas; THENCE S00°53'59"E, coincident with said northerly prolongation and the west line of said "Lease Area", a distance of 99.90 feet; THENCE N88°08'08"E, coincident with the south line of said "Lease Area", a distance of 130.00 feet, to the west line of an "Access and Utility Easement" as described in Doc#FLM–Pg: 29260515 filed with said Register of Deeds; THENCE S00°53'59"E, coincident line and parallel with and 30 feet normally distant to th of said Southwest Quarter and the west line of said Bu of 339.89 feet, to the westerly prolongation of the nort Hickory, as platted in said Buckhead 3rd; THENCE N89°0 said westerly prolongation, a distance of 30.00 feet, to t

Existing public easements and dedications being vacated by virtue of K.S.A. 12–512b, as amended.

All being situated in the Southwest Quarter of Section 13, Township 27 South, Range 2 West of the Sixth Principal Meridian, Sedgwick County, Kansas.

Baughman Company, P.A.

JONATHAN C. HUBBELL LICENSED LS-1680 KANSAS PROFESSIONAL SURVEYOR

Jonathan C. Hubbell, P.S. #1680 Surveyor

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me, this ____ day of _____, 2024, by Louis J. Robelli and Deborah J. Robelli, Members of Murdock Properties, LLC, a Kansas limited liability company, on behalf of the limited liability company.

_____ Notary Public

My App't. Exp. _____

FOR REFERENCE ONLY
NOT TO SCALE

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into Lots, Blocks, Reserves, and Streets, to be known as "BRIDGER AT CENTRAL", an Addition to Wichita, Sedgwick County, Kansas. The utility easements are hereby granted to the public as indicated for the construction and maintenance of all public utilities. The drainage and utility easements are hereby granted to the public as indicated for drainage purposes and for the construction and maintenance of all public utilities. No sign, light poles, private drainage systems, berms, walls, masonry trash enclosures or other structures shall be located within public utility easements unless permitted by the City of Wichita Department of Engineering and that they do not inhibit the conveyance of surface drainage. No private drainage systems shall be located within public drainage easements unless a Residential Drainage Relief Permit is obtained from the City of Wichita Public Works & Utilities Department. The street, drainage, and utility easements are hereby granted to the public as indicated for street purposes, for drainage purposes, and for the construction and maintenance of all public utilities. The streets are hereby dedicated to and for the use of the public. Reserves "A" and "I" are hereby reserved for open space, landscaping, walking paths, sidewalks, lakes, drainage purposes, parking, swimming pools and related appurtenances, utilities as confined to easements, and floodway purposes. No [illegible] shall be constructed or placed on or within said floodway, nor [illegible] grade, creation of channel, or any other work be carried on [illegible] of the Engineer for the appropriate governing body. Reserve "B" is [illegible] space, landscaping, drainage purposes, lakes, sidewalks, [illegible]es as confined to easements. Reserve "C" is hereby reserved [illegible]g, drainage purposes, utilities as confined to easements, and [illegible], and "I" are hereby reserved for open space, landscaping, [illegible]g walls, entry monuments, and utilities as confined to [illegible]ereby reserved for open space, landscaping, drainage [illegible]uments, and streets. Reserve "H" is hereby reserved for [illegible]nage purposes, lakes, sidewalks, and utilities as confined to [illegible]", and "9A" are hereby reserved for open space, [illegible]oses, and utilities as confined to easements. No regrading [illegible]ghts-of-way shall be allowed with the construction of the berms within the Reserves. Reserves "A", "B", "C", "D", "E", "F", "G", "H", and "I" shall be owned and maintained by the homeowners association for the addition. Reserves "7A", "8A", and "9A" shall be owned and maintained by the owners of corresponding adjacent lots and shall be the responsibility of said corresponding adjacent lot owners. Said reserves and corresponding adjacent lots shall be tied together as one ownership and under this ownership shall be conveyed and maintained together as one undivided parcel. Compliance with Central, LP, a Texas limited partnership declaration of restrictions and applicable restrictive covenants affecting said Reserves shall be binding on any owners, successors, heirs, or assigns. Access controls shall be as depicted on the face of the plat and are hereby granted to the City of Wichita, Kansas. The Minimum Building Pad Elevations for the lowest opening to the structures shall be as indicated on the face of the plat. FEMA floodplain and regulatory floodway boundaries are subject to periodic change and such change may affect the intended land use within the subdivision.

Bridger on Central, LP, a Texas limited partnership
By: Bridger Development, LLC – West Wichita Series, a series of Bridger Development, LLC, a Texas series limited liability company, General Partner
By: Bridger Development, LLC, Managing Member

_____, Manager
Fisher Wells

Murdock Properties, LLC,
a Kansas limited liability company

_____, Member
Louis J. Robelli

_____, Member
Deborah J. Robelli

We the undersigned holders of a mortgage on the above described property, do hereby consent to this plat of "BRIDGER AT CENTRAL", an Addition to Wichita, Sedgwick County, Kansas.

Legacy Bank

_____, _____
(Title)

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me, this ____ day of _____, 2024, by _____, _____ (Title) of Legacy Bank, on behalf of the bank.

_____, Notary Public

My App't. Exp. _____

This plat of "BRIDGER AT CENTRAL", an Addition to Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita–Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this ____ day of _____, 2024.
Wichita–Sedgwick County Metropolitan Area Planning Commission

_____, Chair
Robert Dool

_____, Secretary
Scott A. Wodle

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this ____ day of _____, 2024.

_____, Mayor, City of Wichita
Lily Wu

_____, City Clerk
Jamie Buster

DRAINAGE PLAN NOTE:
A master drainage plan has been developed for this plat. All drainage easements, rights-of-way, and reserves shall remain at established grades (unless modified with the approval of the City Engineer) and shall be unobstructed to allow for the conveyance of stormwater in accordance with the Stormwater Manual. The maintenance of all drainageways and drainage facilities in backyard drainage easements and reserves shall be the responsibility of the property owner, and shall be enforced by the Homeowners' Association and be provided for in the Homeowners' Association covenants.

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me, this ____ day of _____, 2024, by Fisher Wells, as Manager of Bridger Development, LLC, as Managing Member of Bridger Development, LLC – West Wichita Series, a series of Bridger Development, LLC, a Texas series limited liability company, as General Partner of Bridger on Central, LP, a Texas limited partnership on behalf of said limited partnership.

_____, Notary Public

My App't. Exp. _____

Reviewed in accordance with K.S.A. 58–2005 on this ____ day of _____, 2024.

_____
Tricia L. Robello, P.S. #1246
Deputy County Surveyor
Sedgwick County, Kansas

Entered on transfer record this ____ day of _____, 2024.

_____, County Clerk
Kelly B. Arnold

State of Kansas)
Sedgwick County) SS

This is to certify that this plat has been filed for record in the office of the Register of Deeds, this ____ day of _____, 2024 at ____ o'clock ___M; and is duly recorded.

_____, Register of Deeds
Tonya Buckingham

_____, Deputy
Kenly Zehring

BRIDGER AT CENTRAL

PAGE 1 OF 2

BAUGHMAN COMPANY
315 Ellis St. Wichita, KS 67211 316-262-7271
BaughmanCo.com

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BRIDGER AT CENTRAL ADDITION - Ph. I

COPY OF PLAT

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 11, 2024

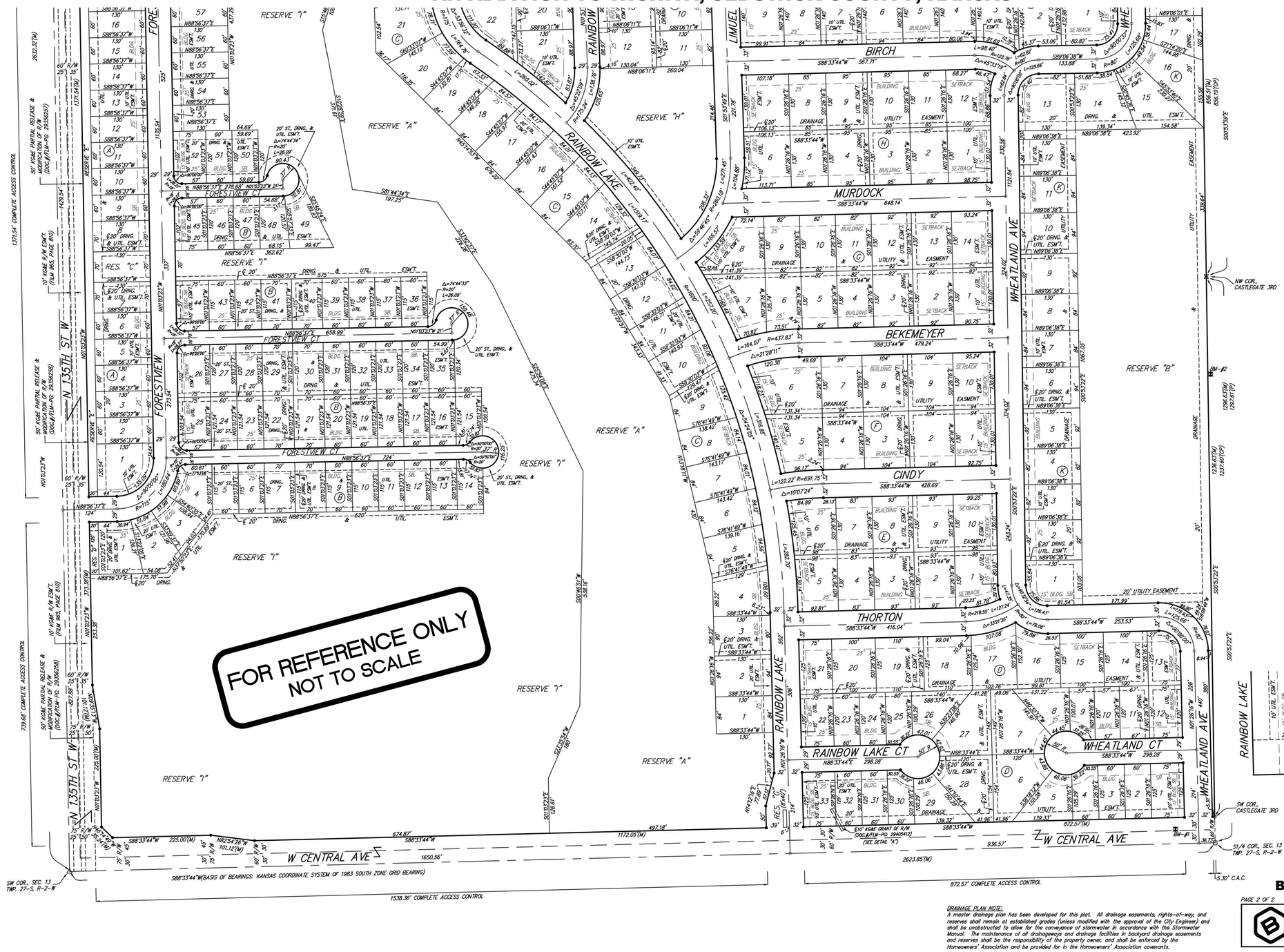
SHEET 52 OF 53

E:\Projects\Bridger at Central Addition(Albert) 1\Plat\Drawings\Bridger at Central 1_F.dwg

File: E:\Projects\Bridger At Central Addition(Albert) 1\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

BRIDGER AT CENTRAL

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



0 100 200

Scale: 1" = 100'

(M) = MEASURED
(P) = PLATTED
(CM) = CALCULATED PER MEASURED INFO.
(CD) = CALCULATED PER DESCRIBED INFO.

● = #4 REBAR W/ "BAUGHMAN" CAP (SET)
○ = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
⊗ = #4 REBAR W/ "ARMSTRONG" CAP (FOUND)
Ø = #4 REBAR (FOUND)(ORIGIN UNKNOWN)
△ = 1/2" IRON PIPE (FOUND)(ORIGIN UNKNOWN)
□ = 3/4" IRON PIPE (FOUND)(ORIGIN UNKNOWN)
■ = BENCHMARK

BENCHMARK:

BM-#1:
SQUARE CUT NORTHEAST CORNER OF CURB INLET, NORTH SIDE OF W CENTRAL AVE, 27.5'± S. & 90.2'± W. OF SW COR., LOT 1, BLOCK A, CASTLEGATE 3RD.
ELEV. = 1342.00 NAVD88

BM-#2:
SQUARE CUT ON TOP OF RCP PIPE, 223.5'± S. & 6.4'± E. OF NW COR., LOT 7, BLOCK B, CASTLEGATE 3RD.
ELEV. = 1341.75 NAVD88

BM-#3:
CITY OF WICHITA BENCHMARK DISC, EAST SIDE OF N 135TH ST W, 13.2'± S. & 37.7'± E. OF W1/4 COR., SEC. 13, TWP. 27-S, R-2-W.
ELEV. = 1347.48 NAVD88

NOTE:
ALL LOTS WITHIN BRIDGER AT CENTRAL SHALL HAVE A 5 FOOT MINIMUM INTERIOR SIDEYARD SETBACK.

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES

LOT	BLOCK	ELEVATION NAVD88
1–15	B	1350.0
35–64	B	1350.0
1–25	C	1350.0
27–30	C	1350.0
11, 12	J	1353.5
1–15	K	1349.0

Note:
Existing Blanket Phillips Pipe Line Company Easement for Telephone and Telegraph Lines over the Southwest Quarter of Sec. 13, Twp. 27–S, R–2–W, (Misc. Book 98, Page 132), now assigned to Phillips 66 Gold Line System, LLC. (DOC.#/FILM–PG: 29464531).

DRAINAGE PLAN NOTE:
A master drainage plan has been developed for this plat. All drainage easements, rights–of–way, and reserves shall remain at established grades (unless modified with the approval of the City Engineer) and shall be unobstructed to allow for the conveyance of stormwater in accordance with the Stormwater Manual. The maintenance of all drainageways and drainage facilities in backyard drainage easements and reserves shall be the responsibility of the property owner, and shall be enforced by the Homeowners' Association and be provided for in the Homeowners' Association covenants.

BRIDGER AT CENTRAL

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BRIDGER AT CENTRAL ADDITION - Ph. I

COPY OF PLAT

STORM WATER DRAIN IMPROVEMENTS

PROJECT NUMBER: 23-09-603

DESIGN: DRAWN:

DATE: April 11, 2024

SHEET 53 OF 53

File: E:\Projects\Bridger At Central Addition(Albert)..\Engineering\Phase 1\SWD_23-09-603\SWD.dwg

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