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. A portion of excess excavated material shall be mounded around manholes which extend more than one (1) foot above the existing ground. Such mound shall be constructed with new development a six (6) foot diameter flat top with 4 to 1 side slopes down to the original ground. The elevation of the flat top of the mound shall be 0.4 foot below the top to the manhole.

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

11. 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.

12. 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".

13. All of Greenwich R/W disturbed during construction, Res. "C" & "I" 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 ±0.2' 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 Blue Sky Ventures, LLC, Craig Sharp and Travis Whisler.

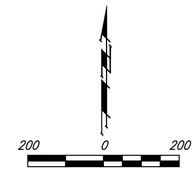
STORM WATER DRAIN #542 IMPROVEMENTS

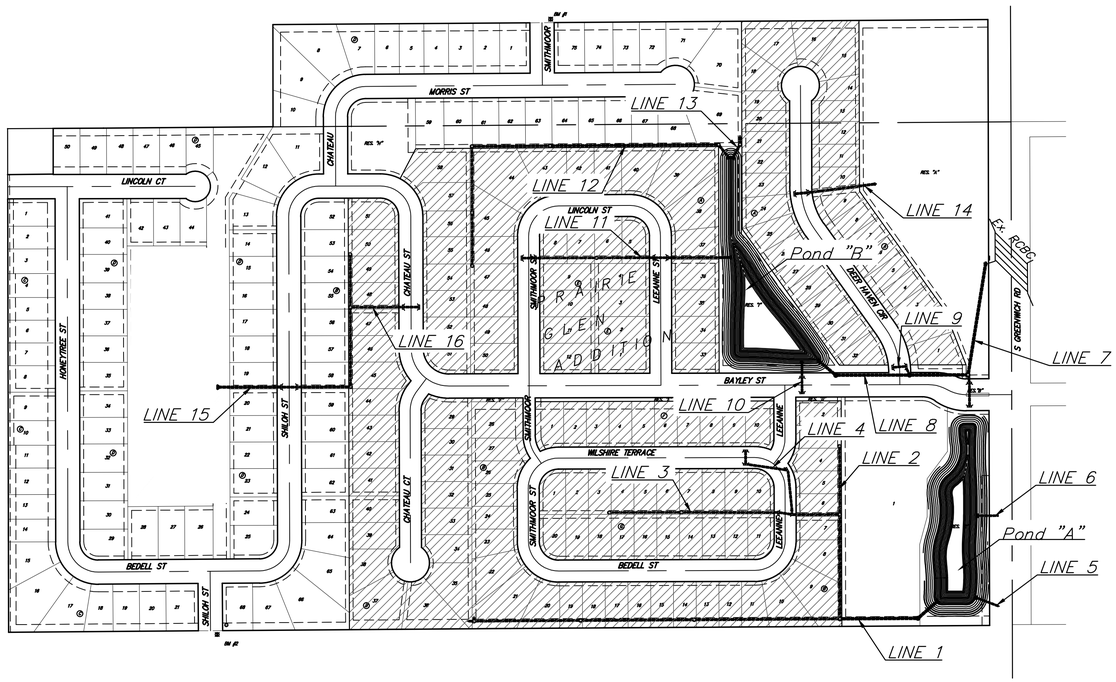
to serve

PRAIRIE GLEN ADD. Ph I

CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E. City Engineer
Project Number 458-2025-085605
Org Code 47315225
Munis Number E5085





Benefit District

Benchmarks

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Elev. = 1349.51 NAVD88

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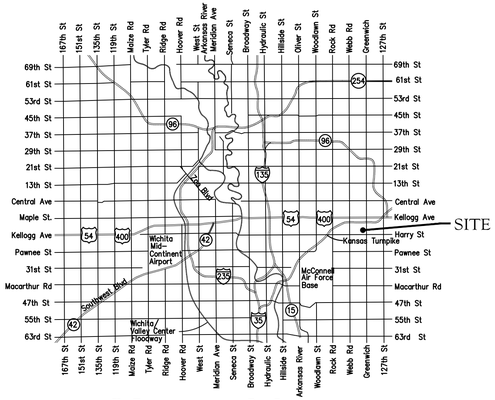
Elev. = 1344.34 NAVD88



Vicinity Map

Stormwater Certification:

(New Development) or Redevelopment (Circle One)

Stormwater Permit # _____

NOI Permit # S–AR94–1947 KSR 123018

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) = 90.77 Ac.
Disturbed Area (Acres) = 90.77 Ac.
Water Quality Treatment: Wet ponds
Downstream Channel Protection: Pond outfall protection
Detention: On Site
The BMP used for this development is Offsite BMP Program

Sheet Index

BRENT WOOTEN LICENSED 8470 05/20/2025 KANSAS PROFESSIONAL ENGINEER

May 19, 2025

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

E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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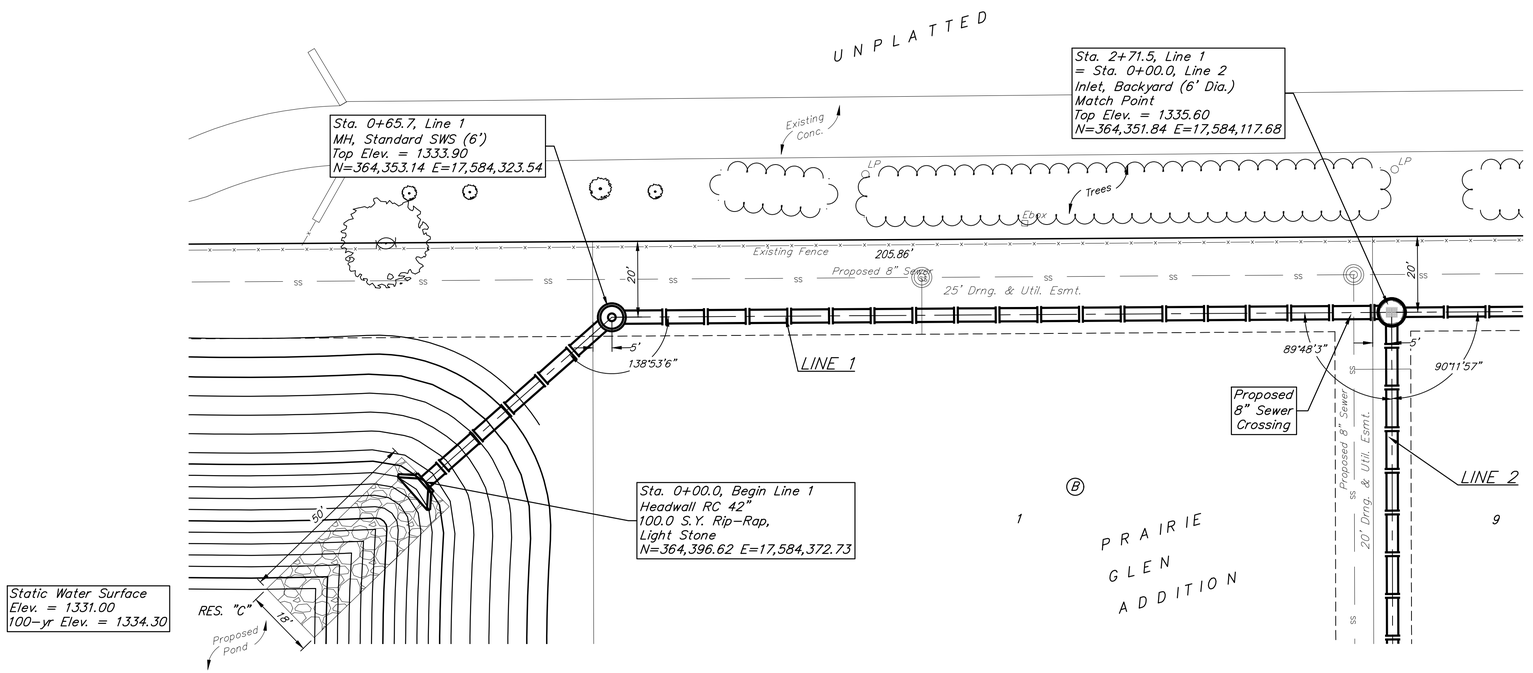

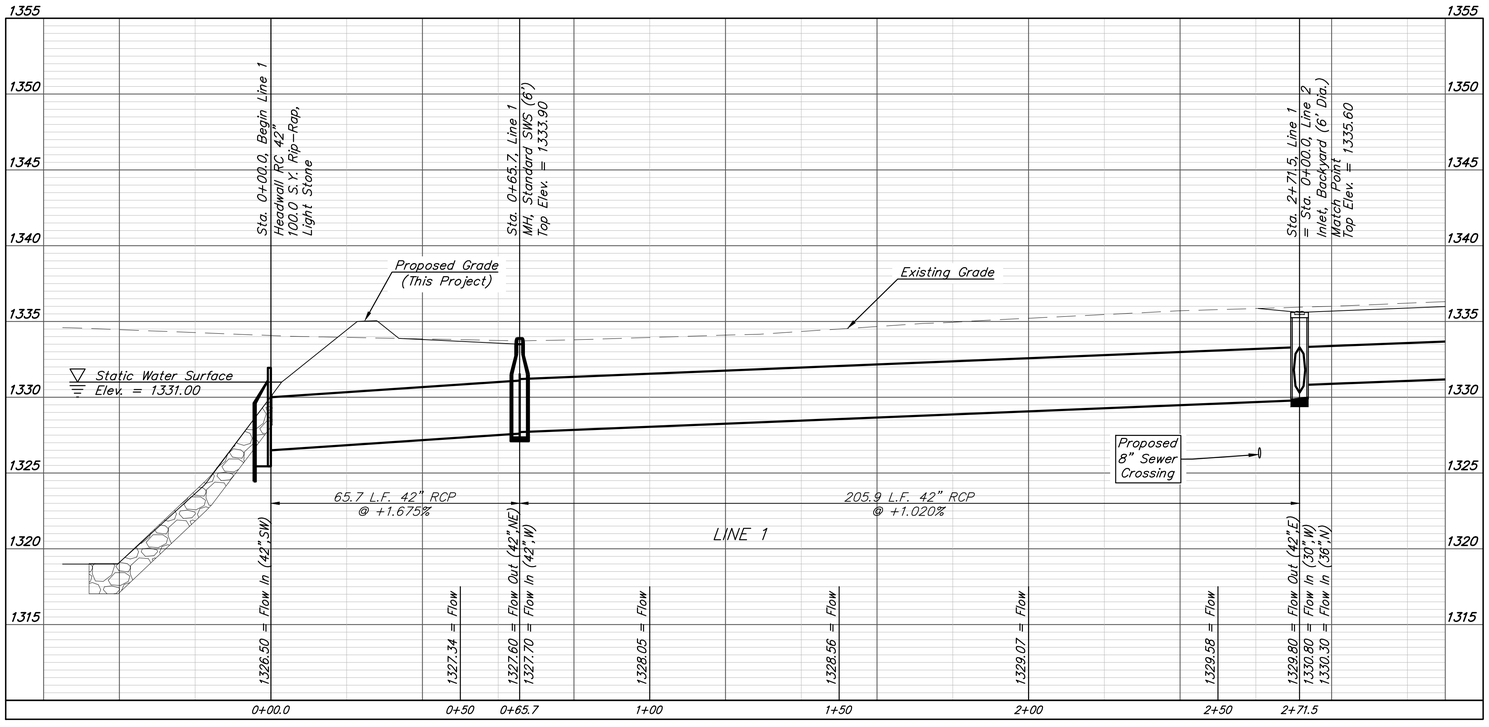

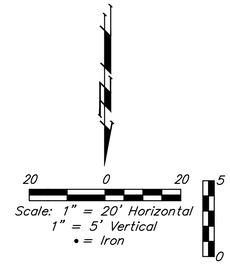

Scale: 1" = 20' Horizontal
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• = Iron

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PRAIRIE GLEN ADDITION
Phase 1

LINE 1

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 9, 2025

SHEET 2 OF 54

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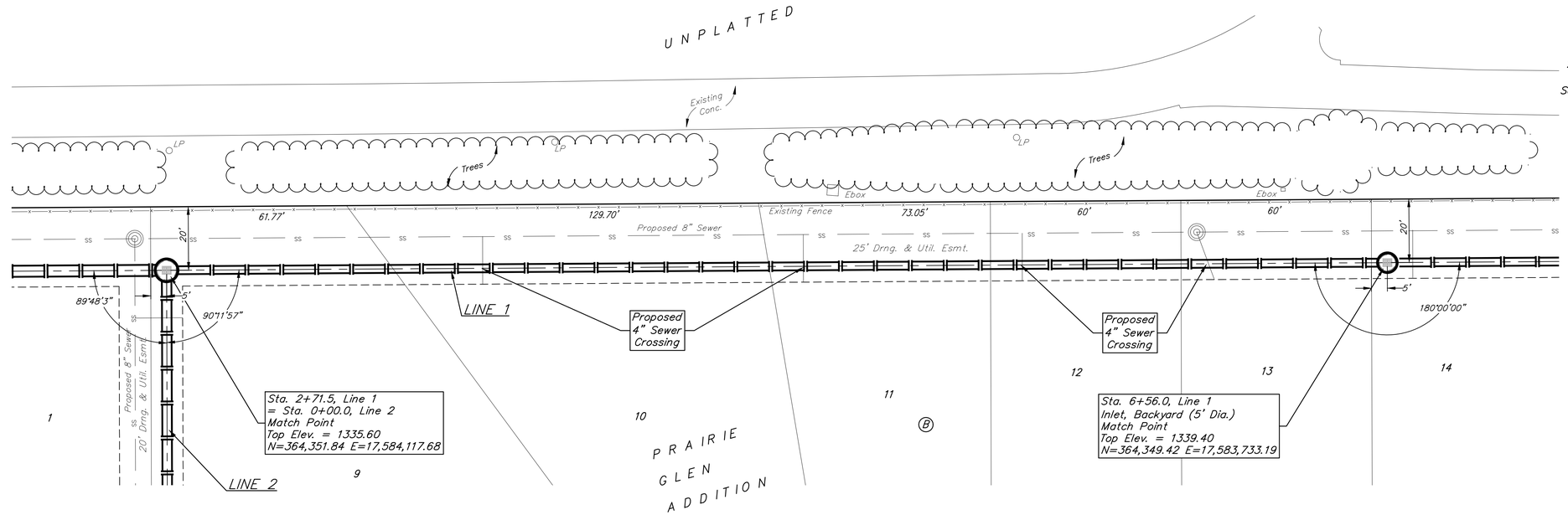

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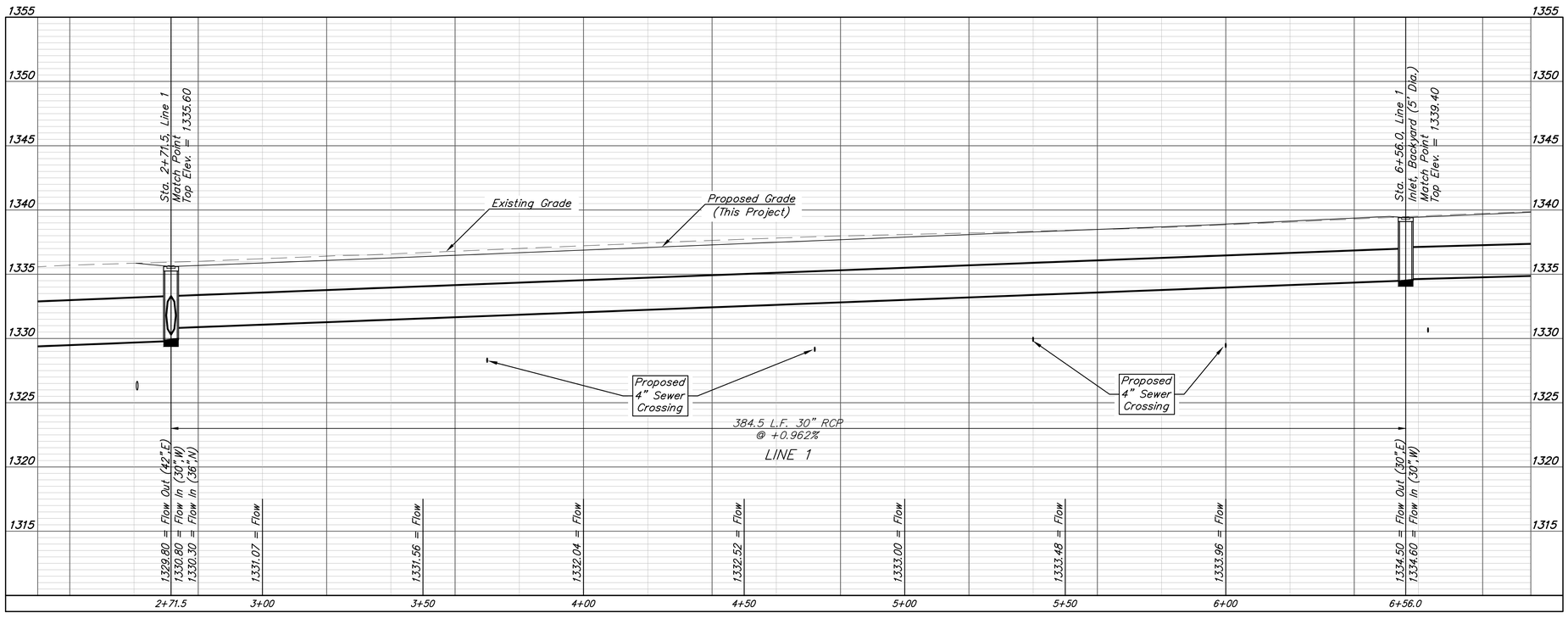

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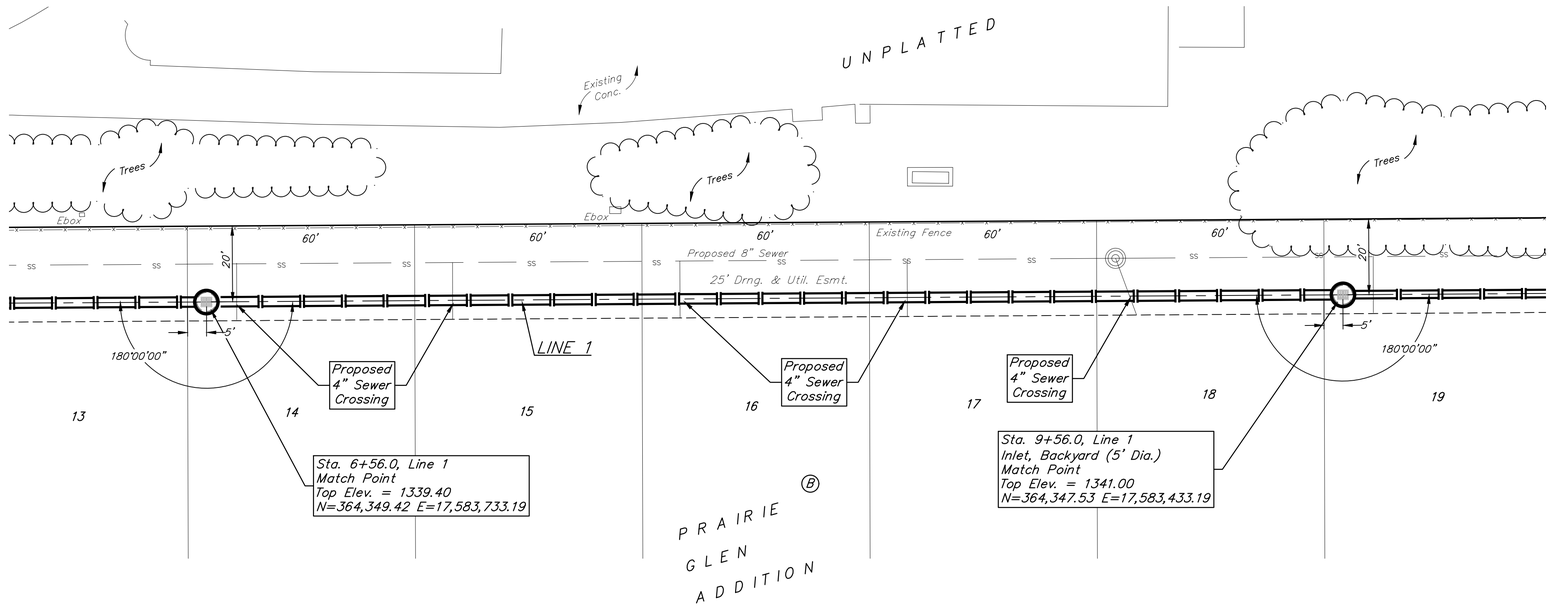

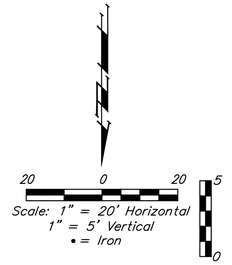

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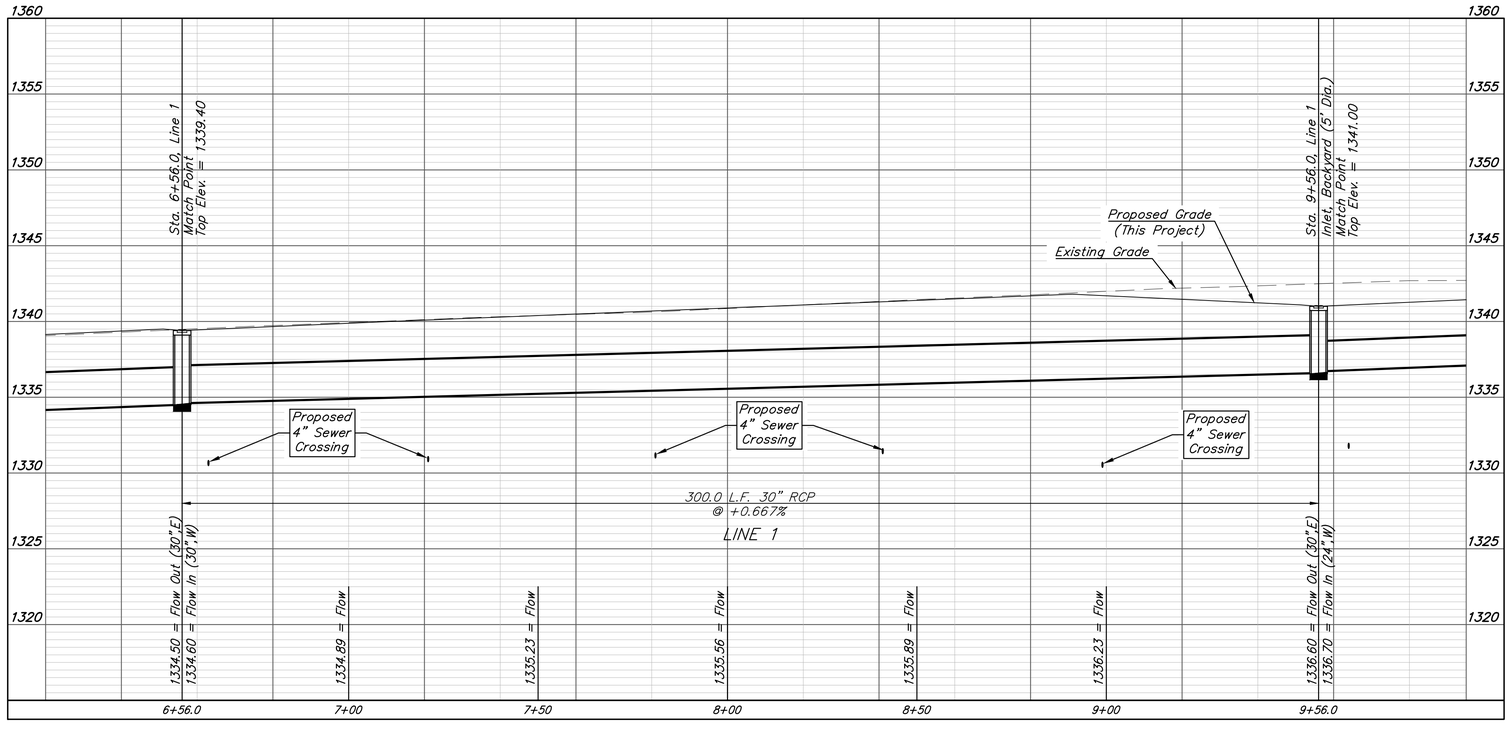
Trees in conflict with SWS construction to be removed by contractor. To be paid for as lump sum bid item "Site Clearing"

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"



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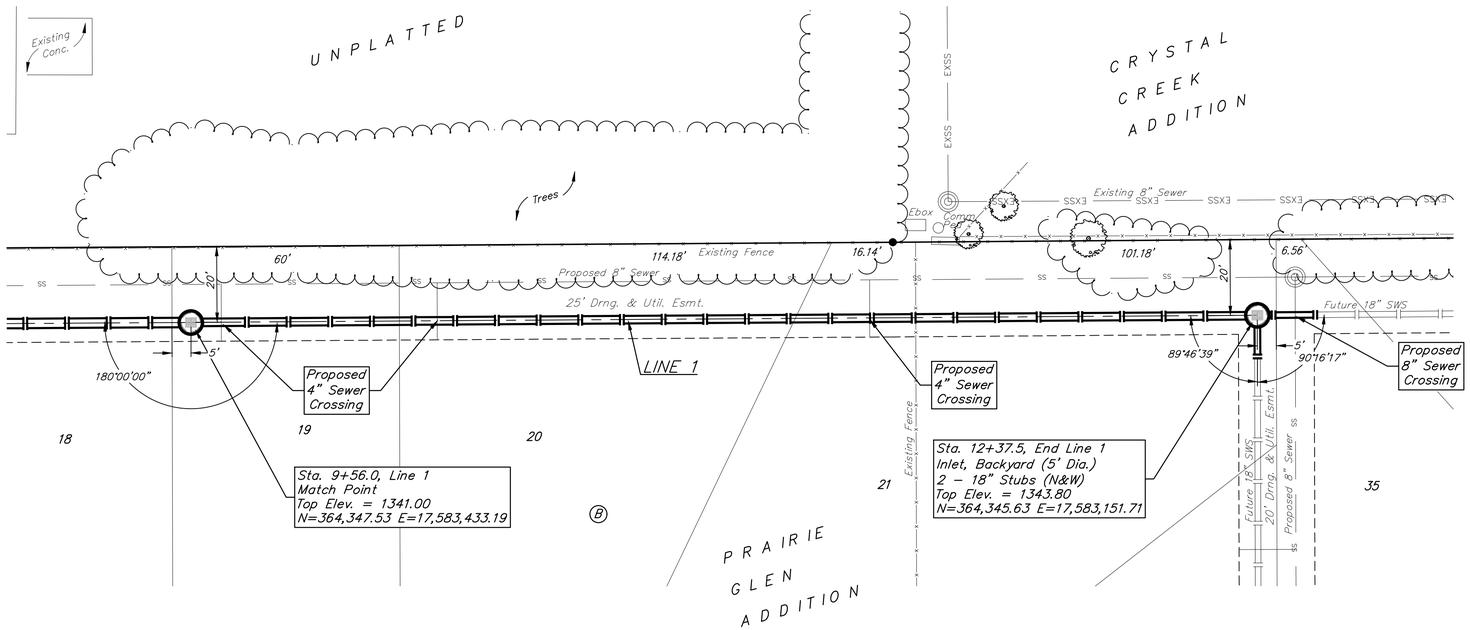

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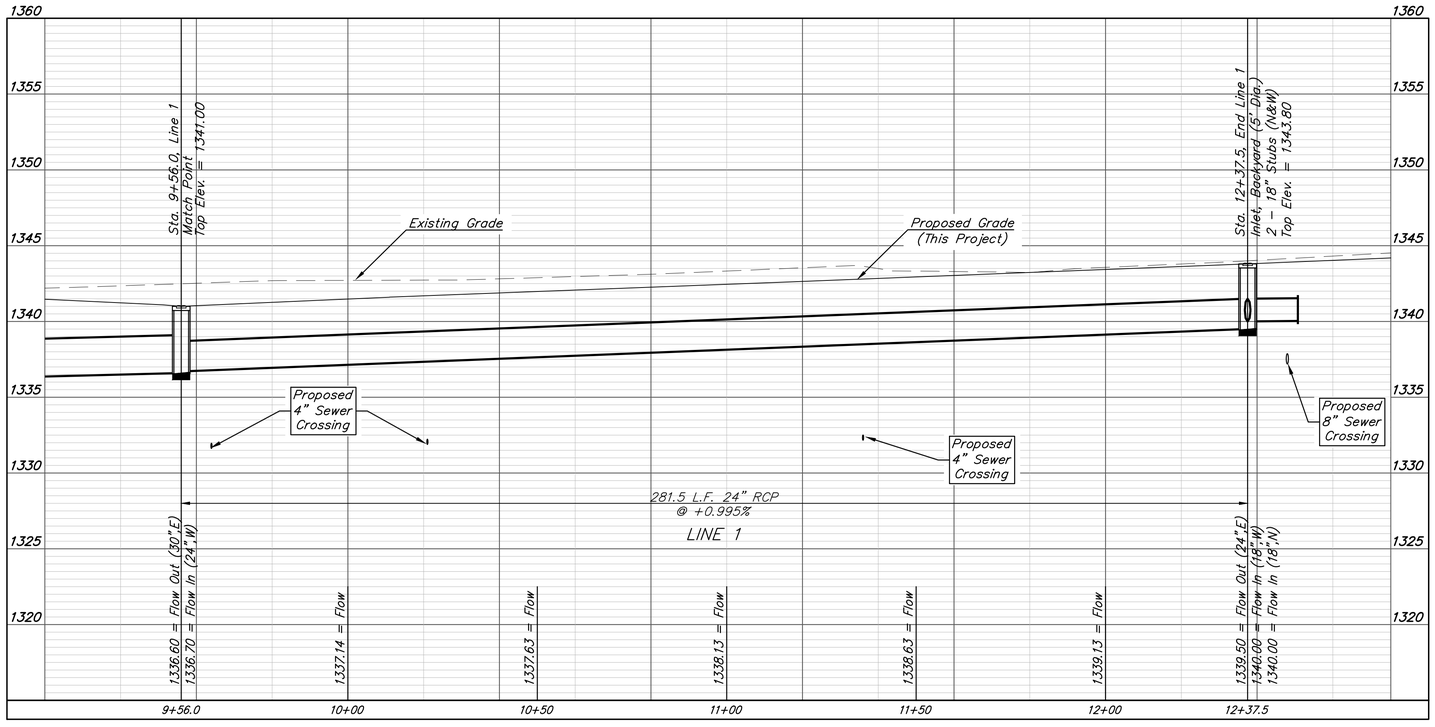

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PRAIRIE GLEN ADDITION
Phase 1

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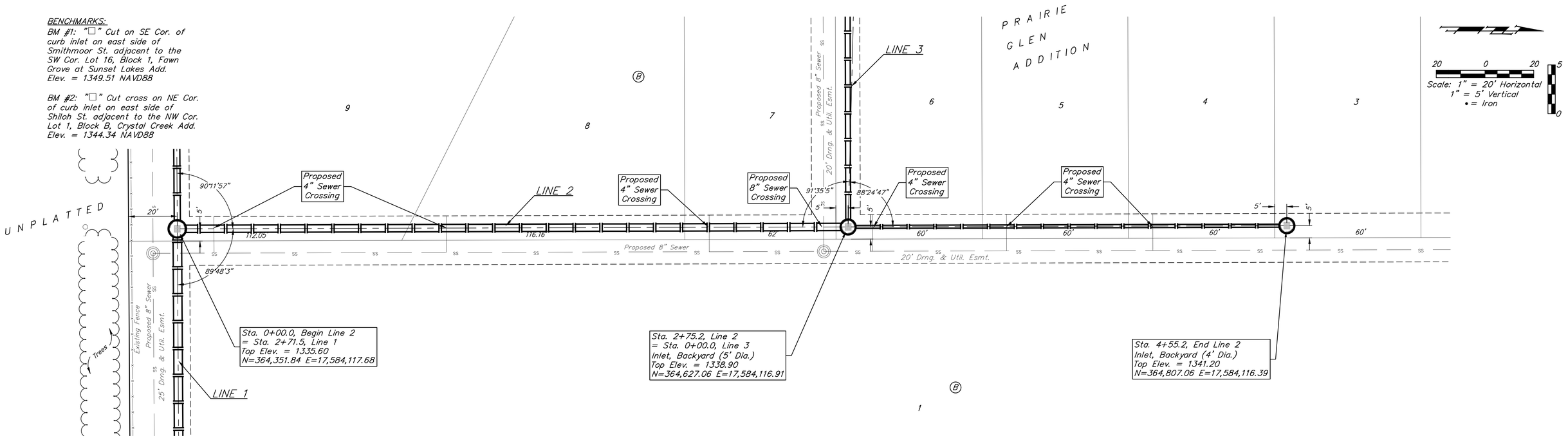

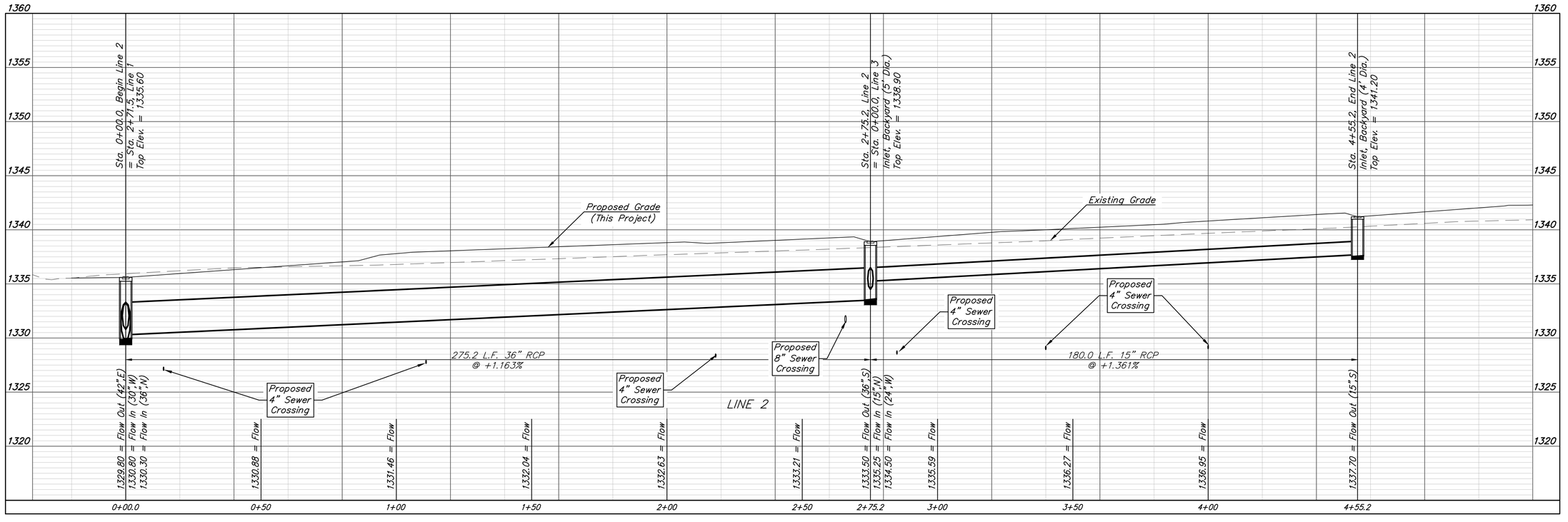

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PRAIRIE GLEN ADDITION
Phase 1

LINE 2

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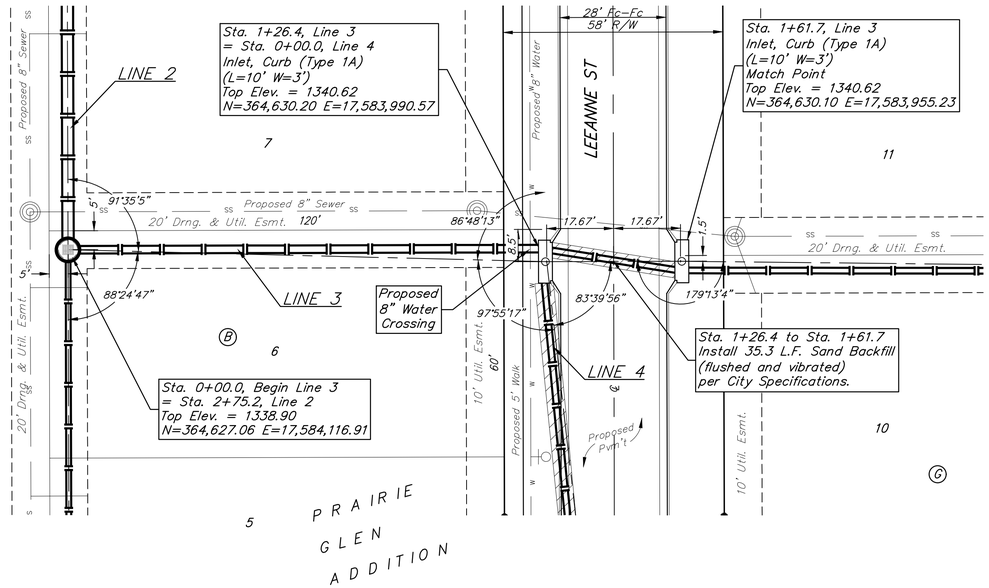

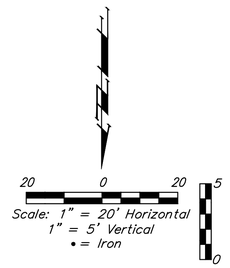

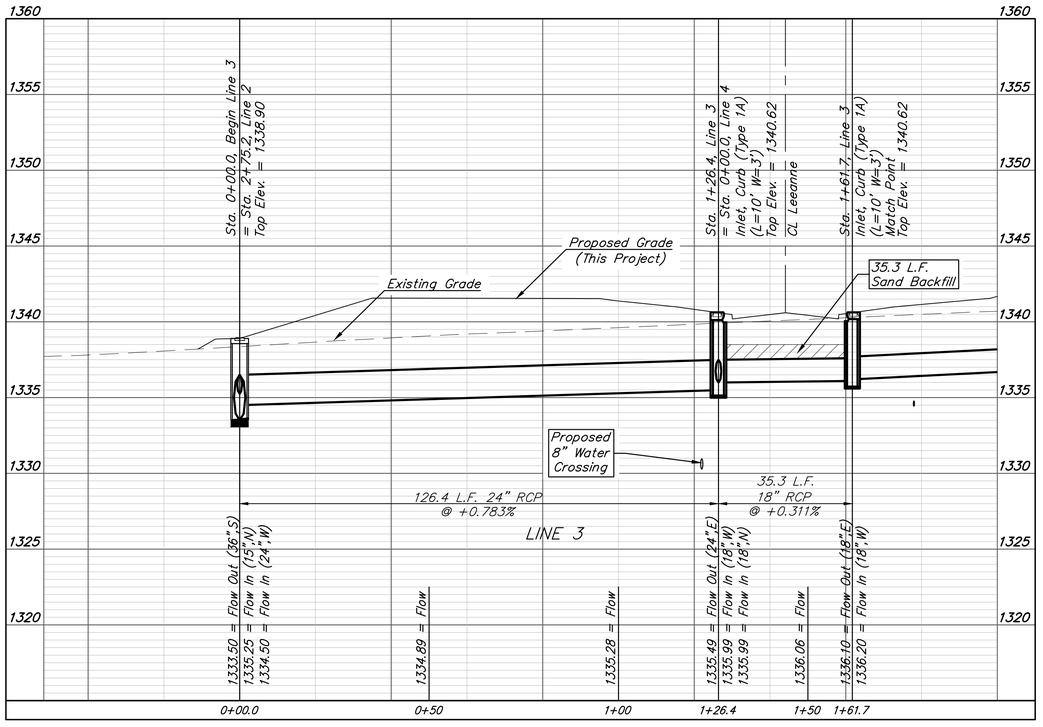

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PRAIRIE GLEN ADDITION
Phase 1

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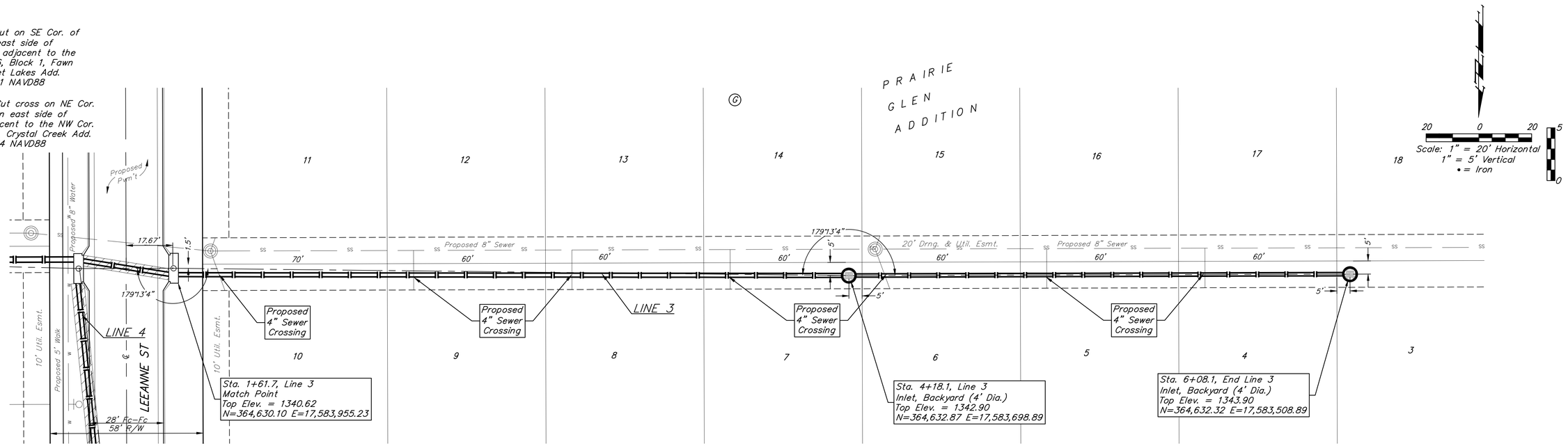

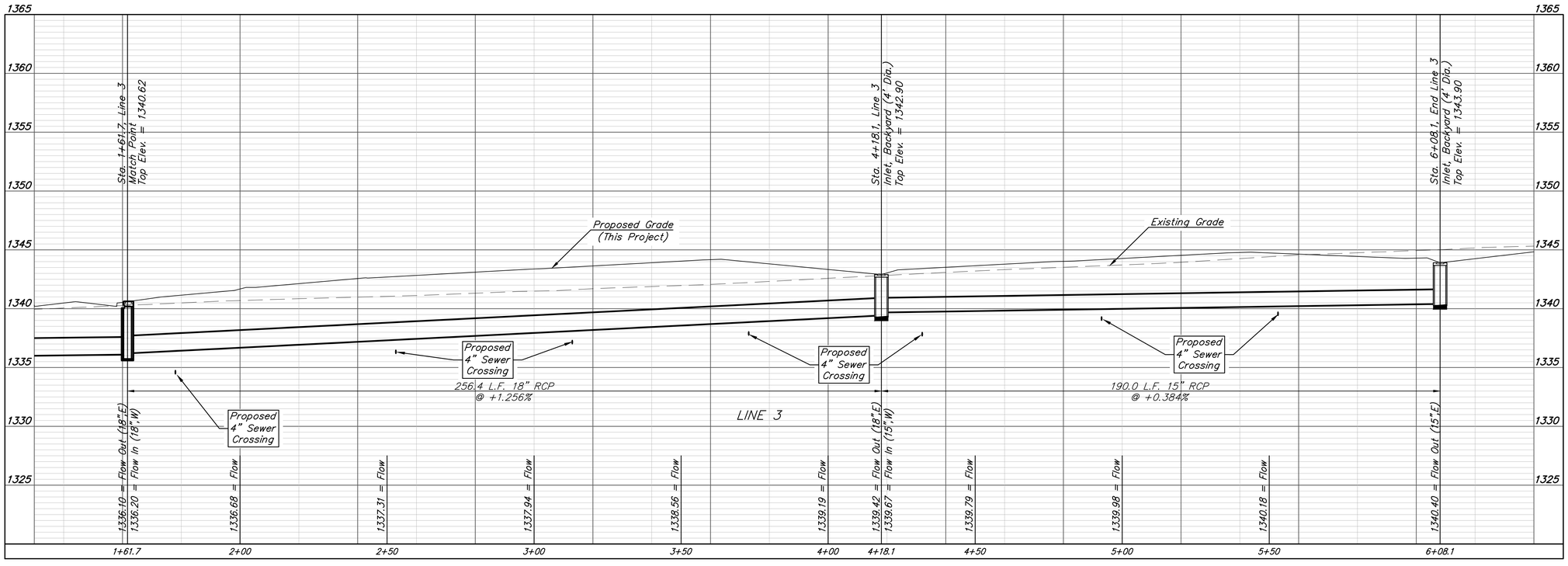

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Wichita, KS 67211
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PRAIRIE GLEN ADDITION
Phase 1

LINE 3

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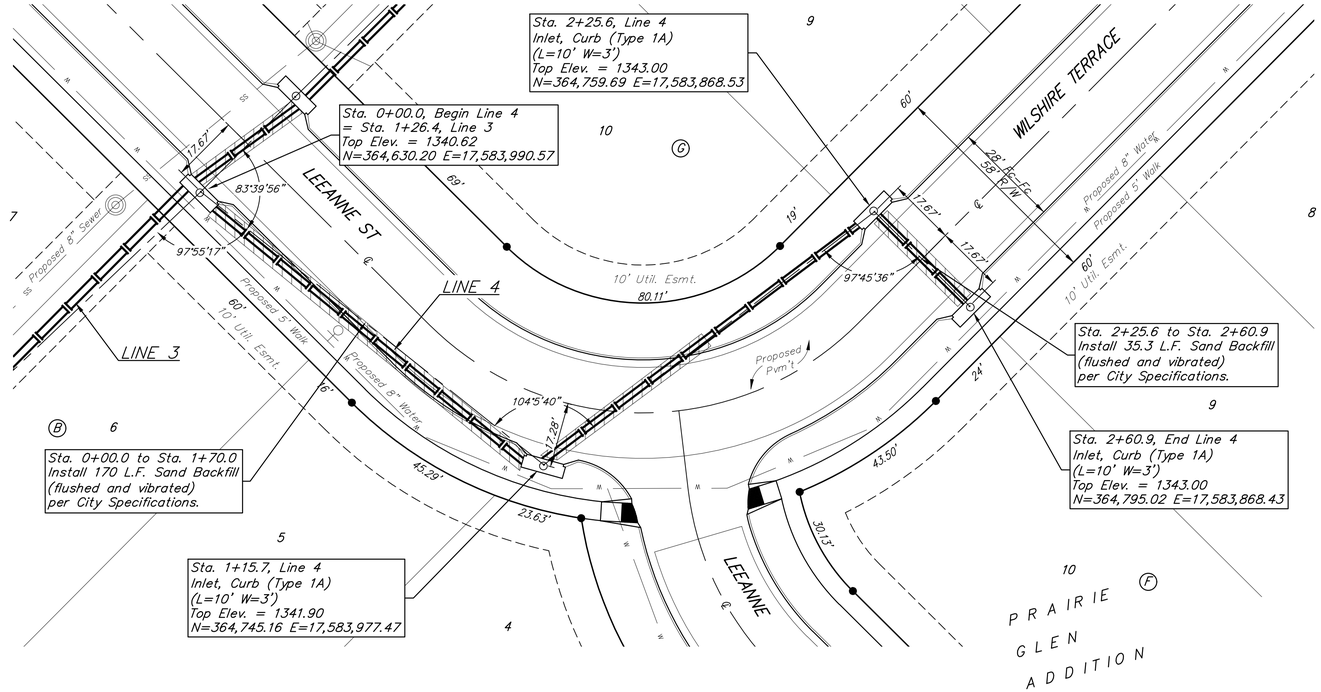

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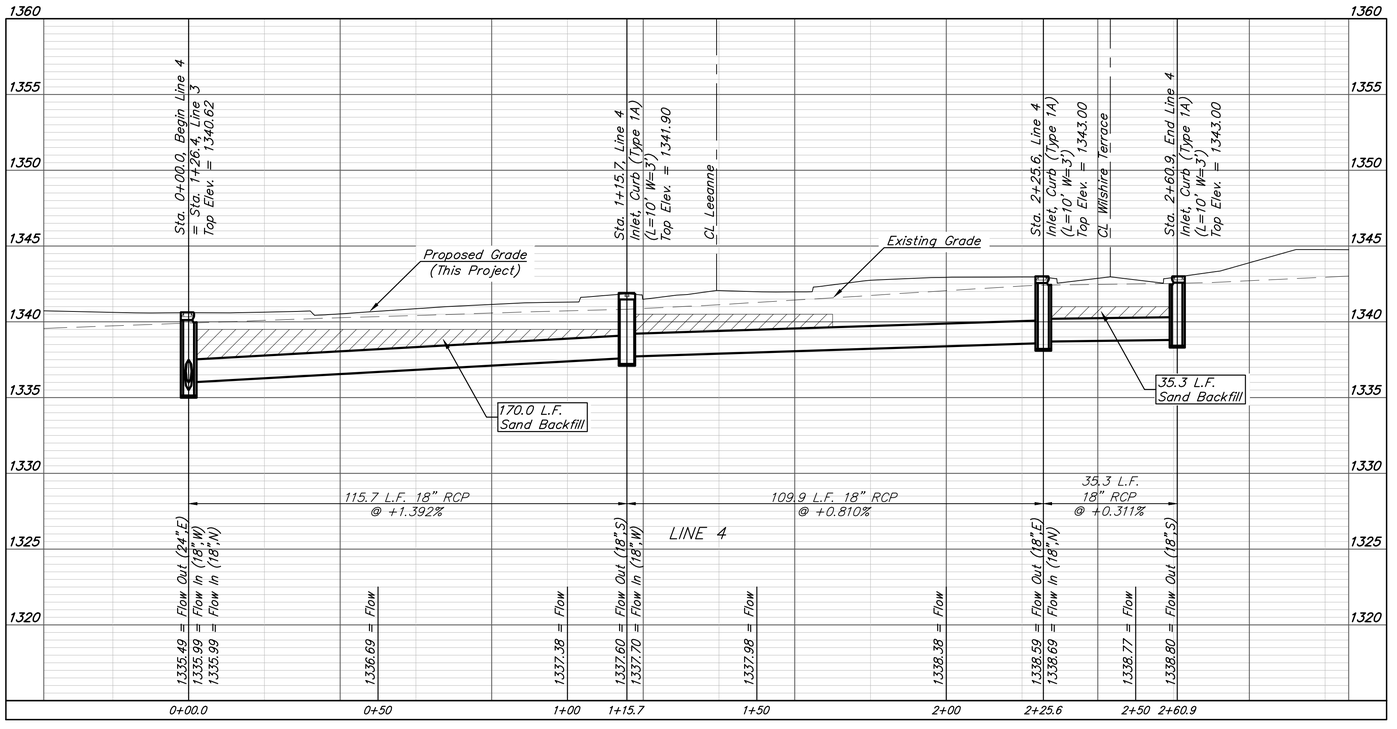

BAUGHMAN COMPANY
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PRAIRIE GLEN ADDITION
Phase 1

LINE 4

STORM WATER SEWER IMPROVEMENTS

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SHEET 9 OF 54

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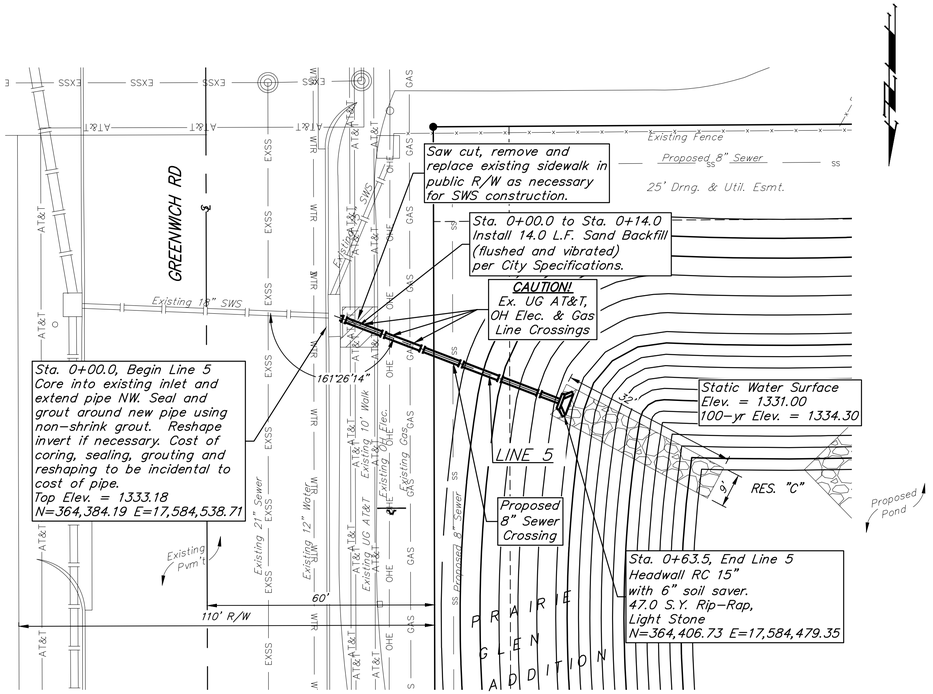
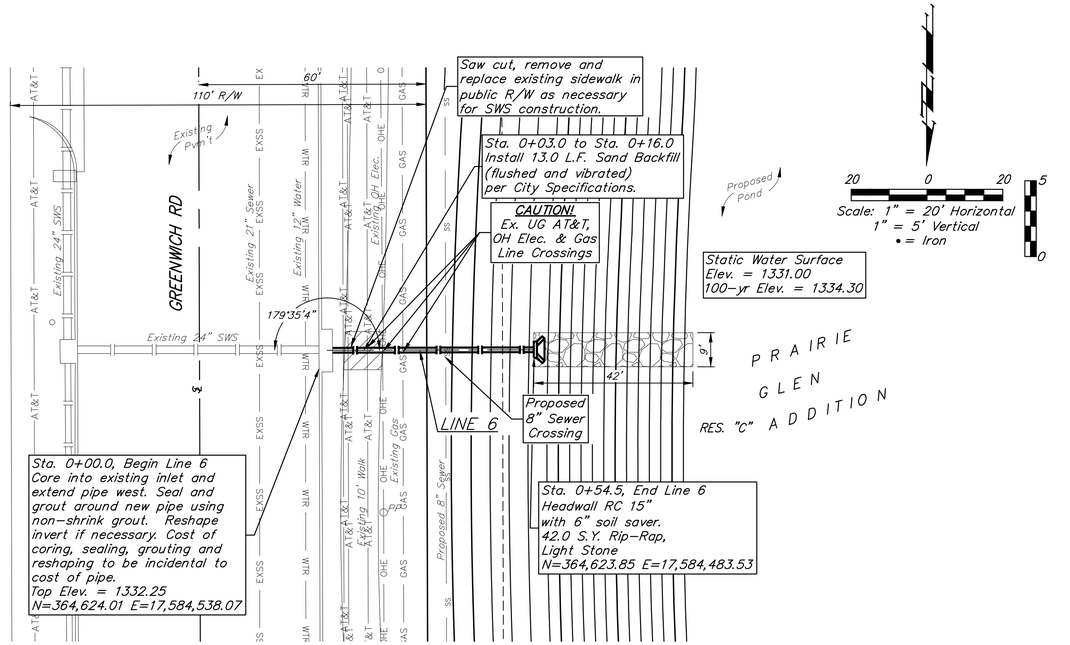
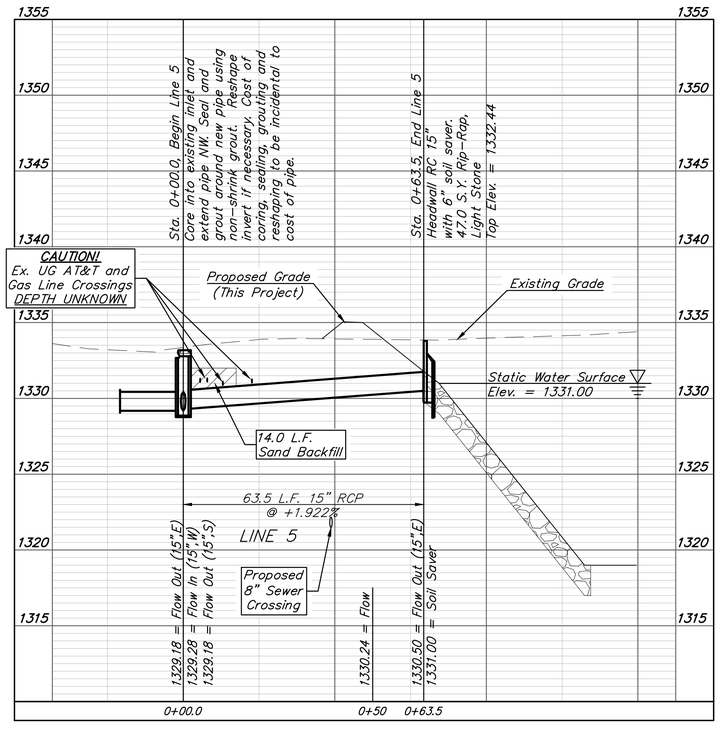
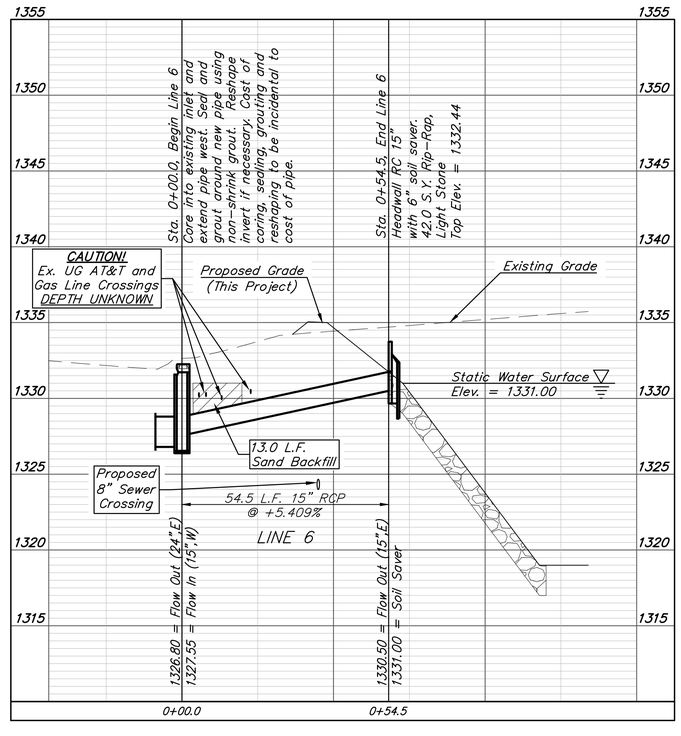




Contact utility companies 3 weeks prior to construction to coordinate temporary removal/replacement.
Heide Bryan, Evergy, (316) 261-6354
Shannon Brinkmeyer, AT&T (316) 268-2931
Travis Taylor, Cox Comm., Travis.taylor@cox.com





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PRAIRIE GLEN ADDITION
Phase 1

LINES 5 & 6

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 15, 2025

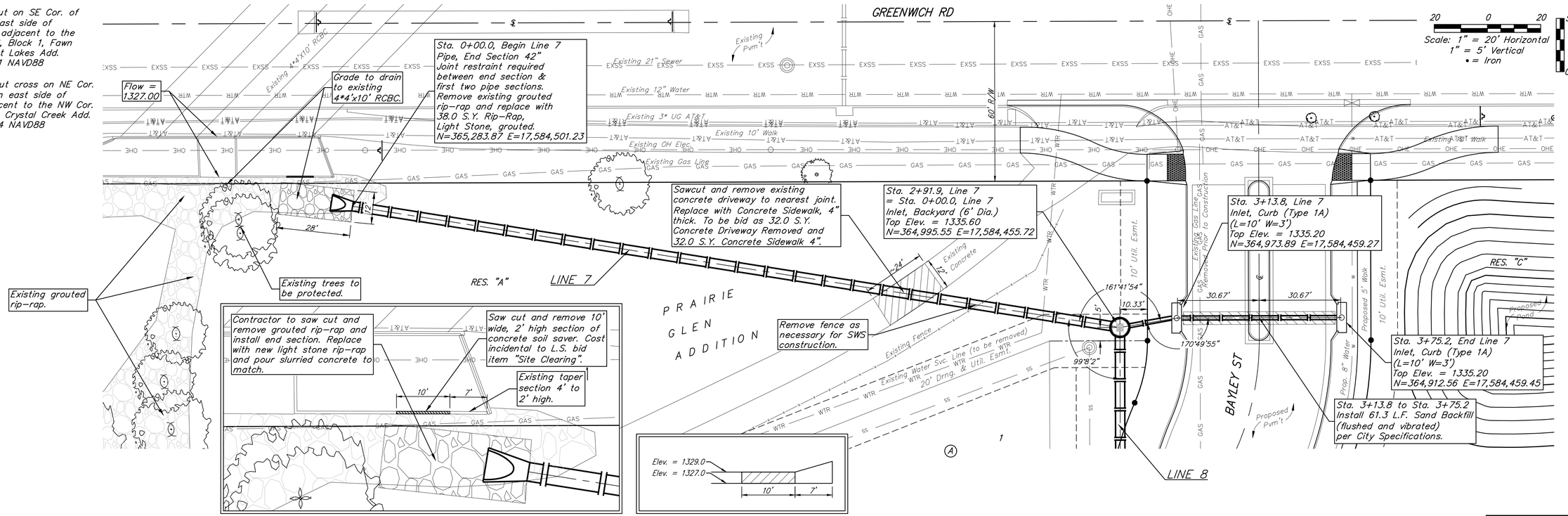
SHEET 10 OF 54

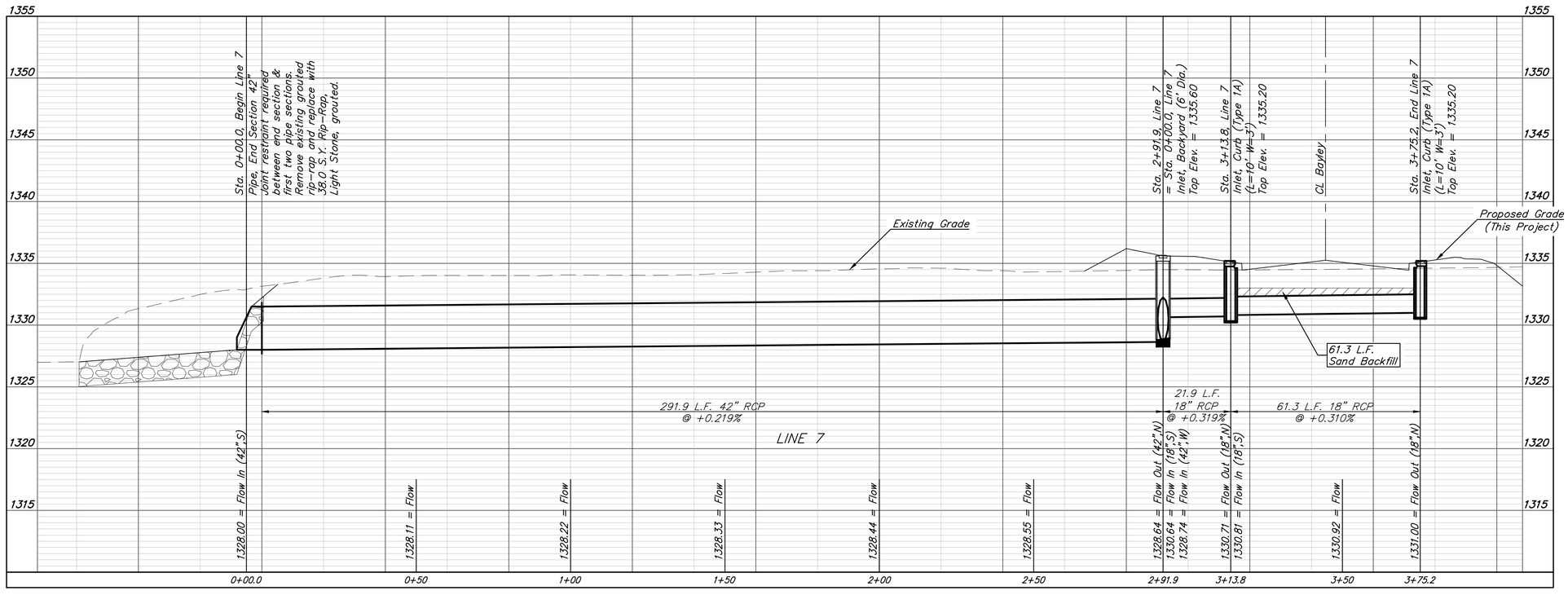
File: E:\Projects\Prairie Glen Addition (Starr Property Plat)_24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

BENCHMARKS:

BM #1: "□" Cut on SE Cor. of curb inlet on east side of Smithmoor St. adjacent to the SW Cor. Lot 16, Block 1, Fawn Grove at Sunset Lakes Add. Elev. = 1349.51 NAVD88

BM #2: "□" Cut cross on NE Cor. of curb inlet on east side of Shiloh St. adjacent to the NW Cor. Lot 1, Block B, Crystal Creek Add. Elev. = 1344.34 NAVD88





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PRAIRIE GLEN ADDITION
Phase 1

LINE 7

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 20, 2025

SHEET 11 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

BENCHMARKS:
BM #1: "□" Cut on SE Cor. of curb inlet on east side of Smithmoor St. adjacent to the SW Cor. Lot 16, Block 1, Fawn Grove at Sunset Lakes Add. Elev. = 1349.51 NAVD88

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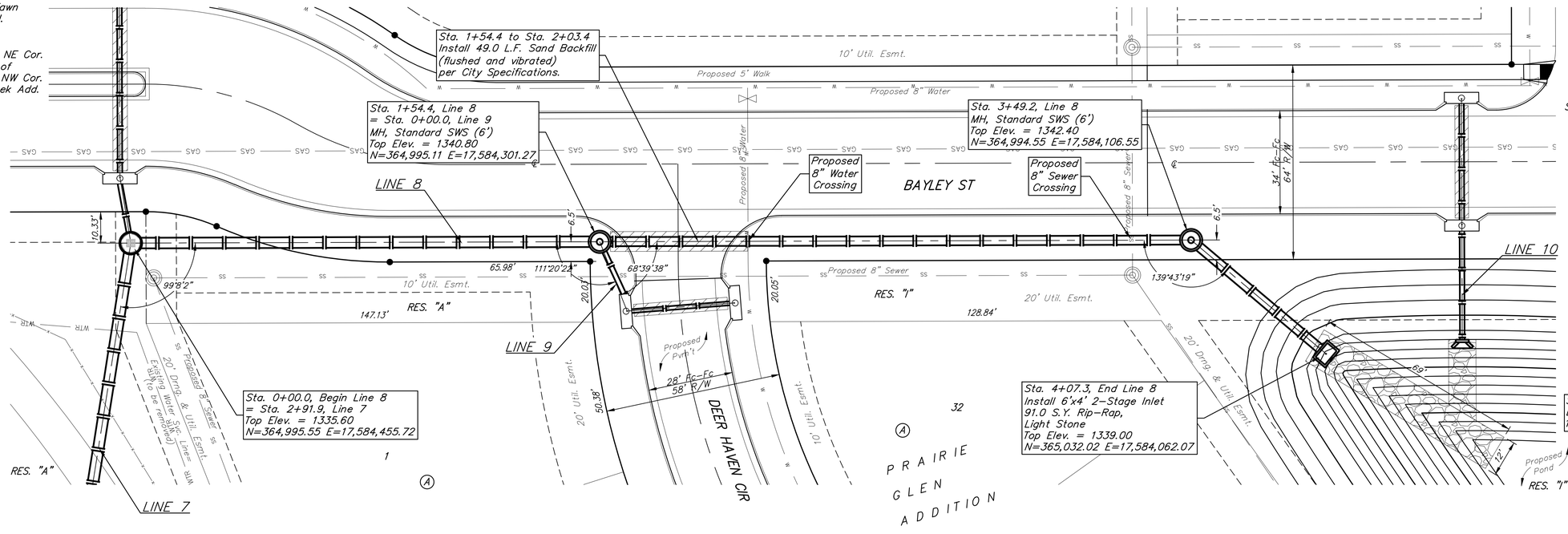

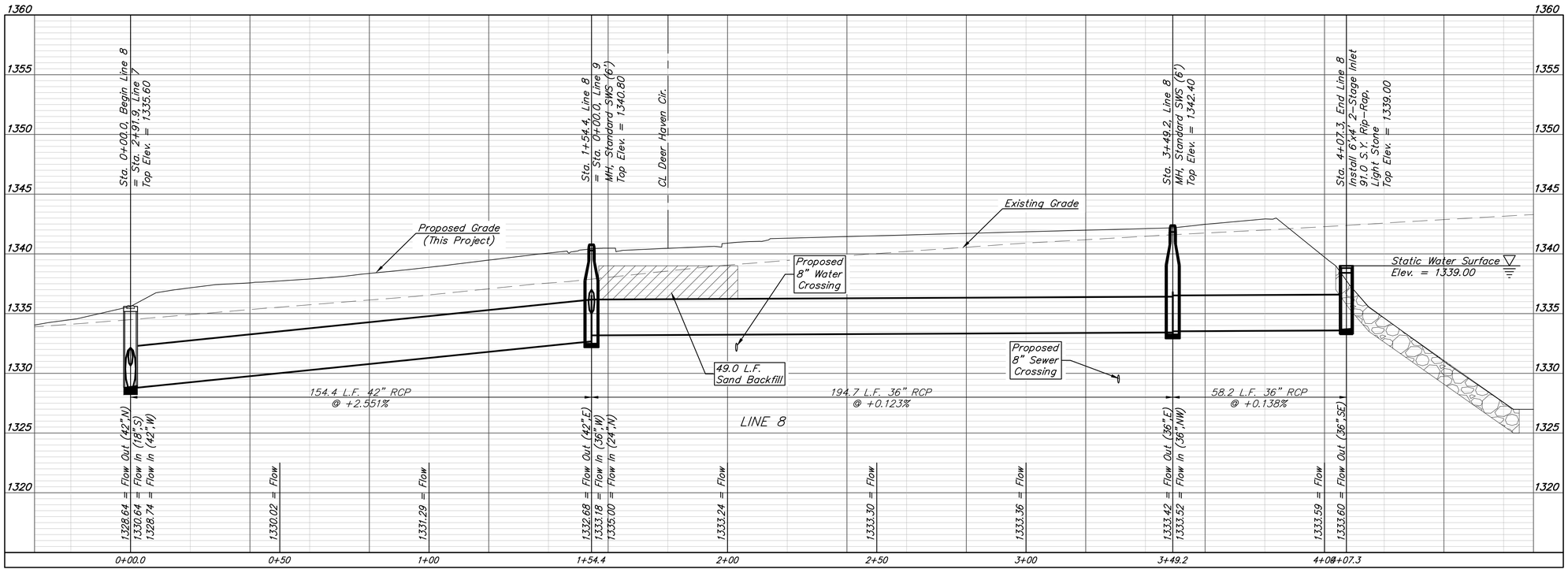

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PRAIRIE GLEN ADDITION
Phase 1

LINE 8

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

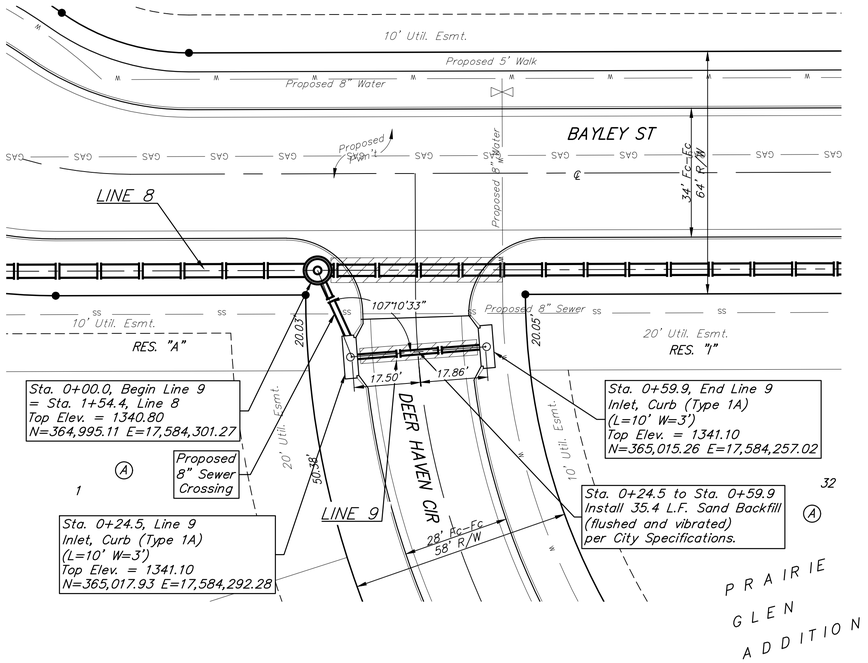
DATE: May 19, 2025

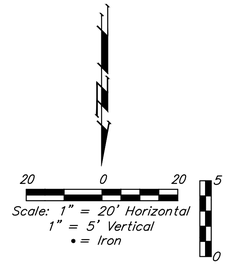
SHEET 12 OF 54

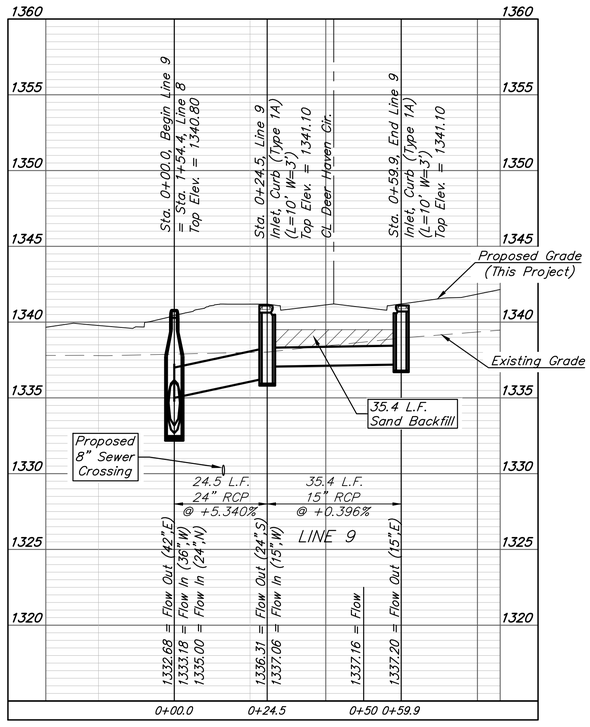
File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

BENCHMARKS:
BM #1: "□" Cut on SE Cor. of curb inlet on east side of Smithmoor St. adjacent to the SW Cor. Lot 16, Block 1, Fawn Grove at Sunset Lakes Add. Elev. = 1349.51 NAVD88

BM #2: "□" Cut cross on NE Cor. of curb inlet on east side of Shiloh St. adjacent to the NW Cor. Lot 1, Block B, Crystal Creek Add. Elev. = 1344.34 NAVD88







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PRAIRIE GLEN ADDITION
Phase 1

LINE 9

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 9, 2025

SHEET 13 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

BENCHMARKS:
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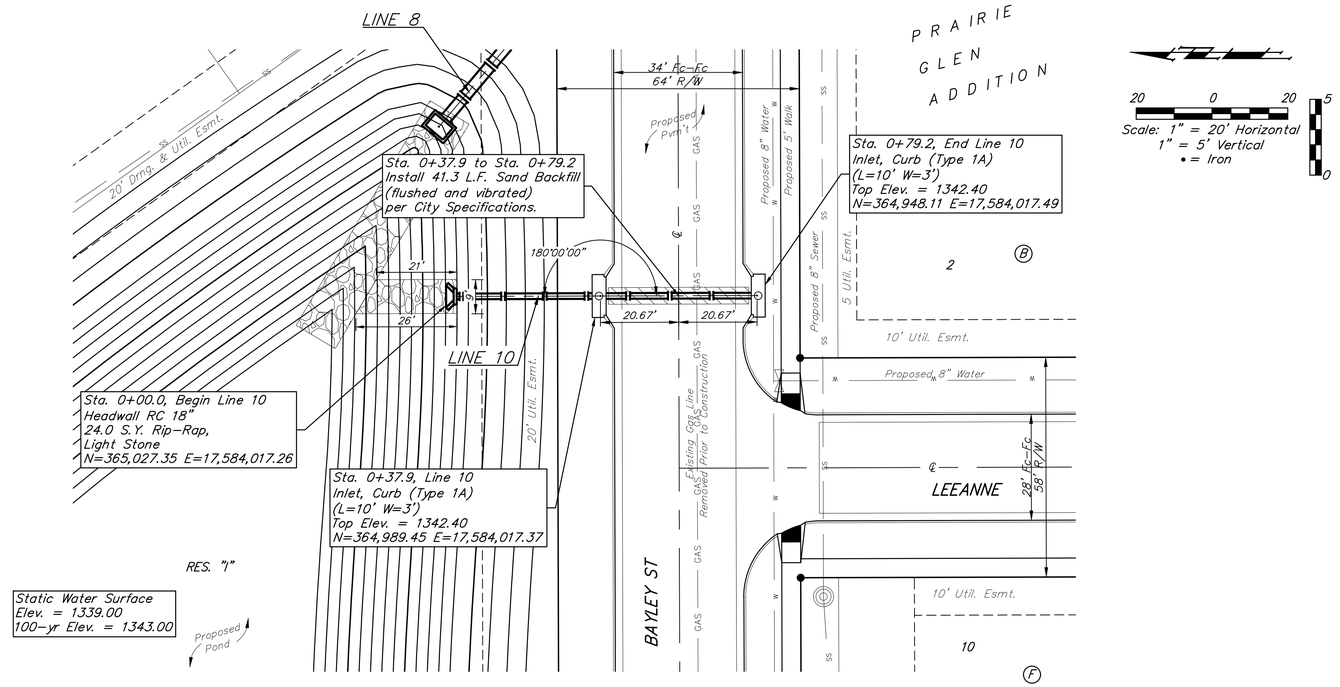

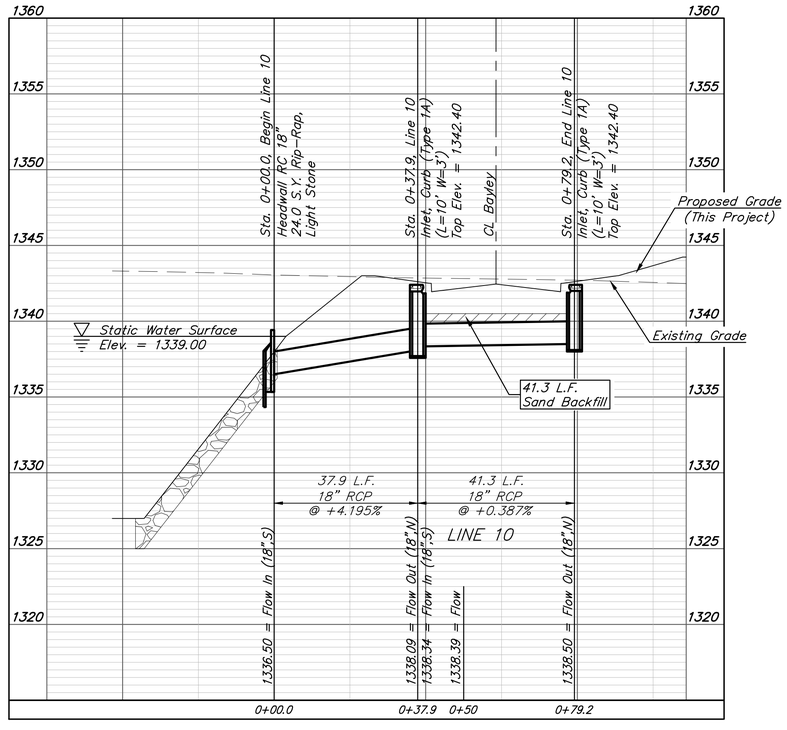

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PRAIRIE GLEN ADDITION
Phase 1

LINE 10

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 9, 2025

SHEET 14 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

BENCHMARKS:
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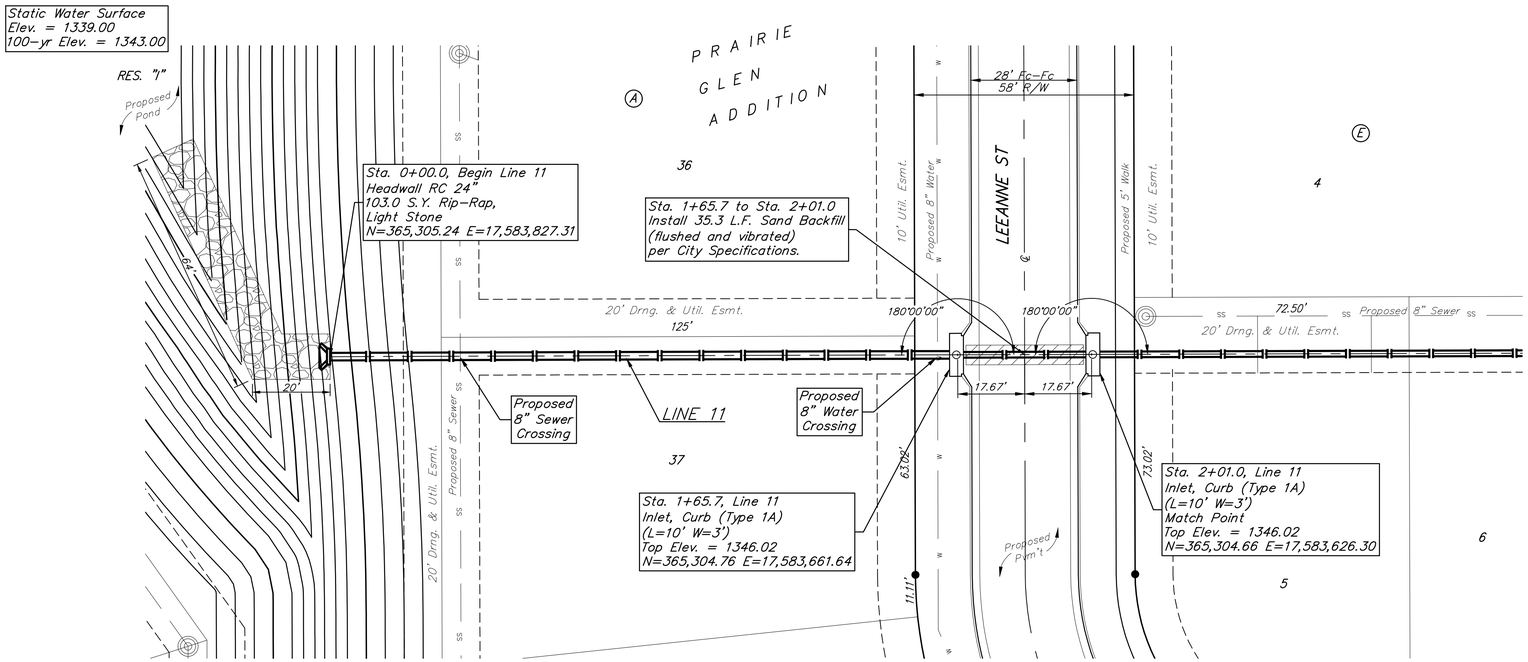

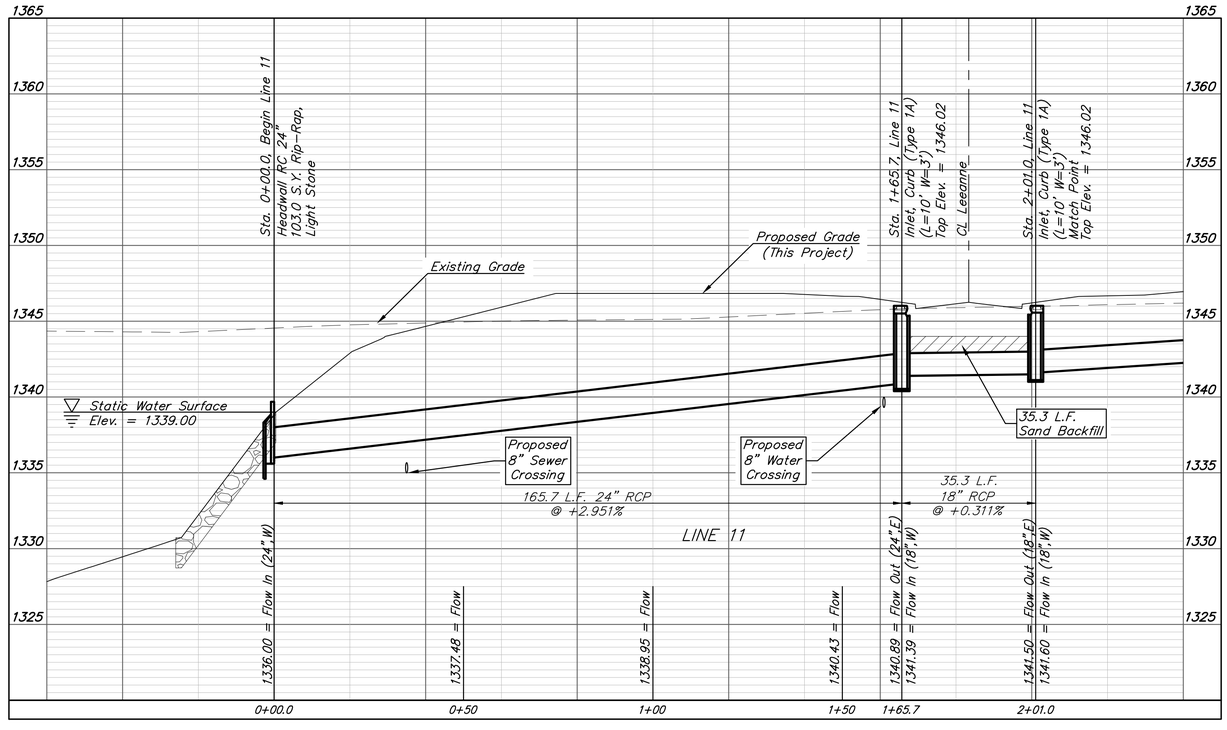

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PRAIRIE GLEN ADDITION
Phase 1

LINE 11

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 9, 2025

SHEET 15 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

BENCHMARKS:
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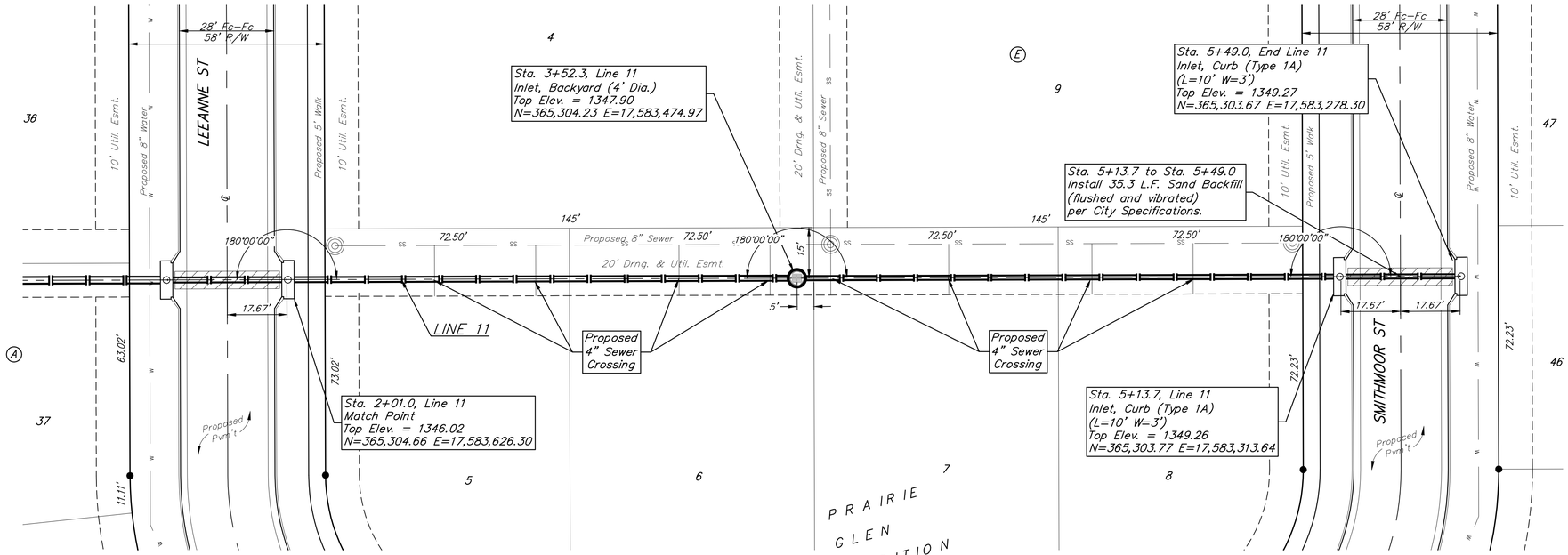

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1" = 5' Vertical
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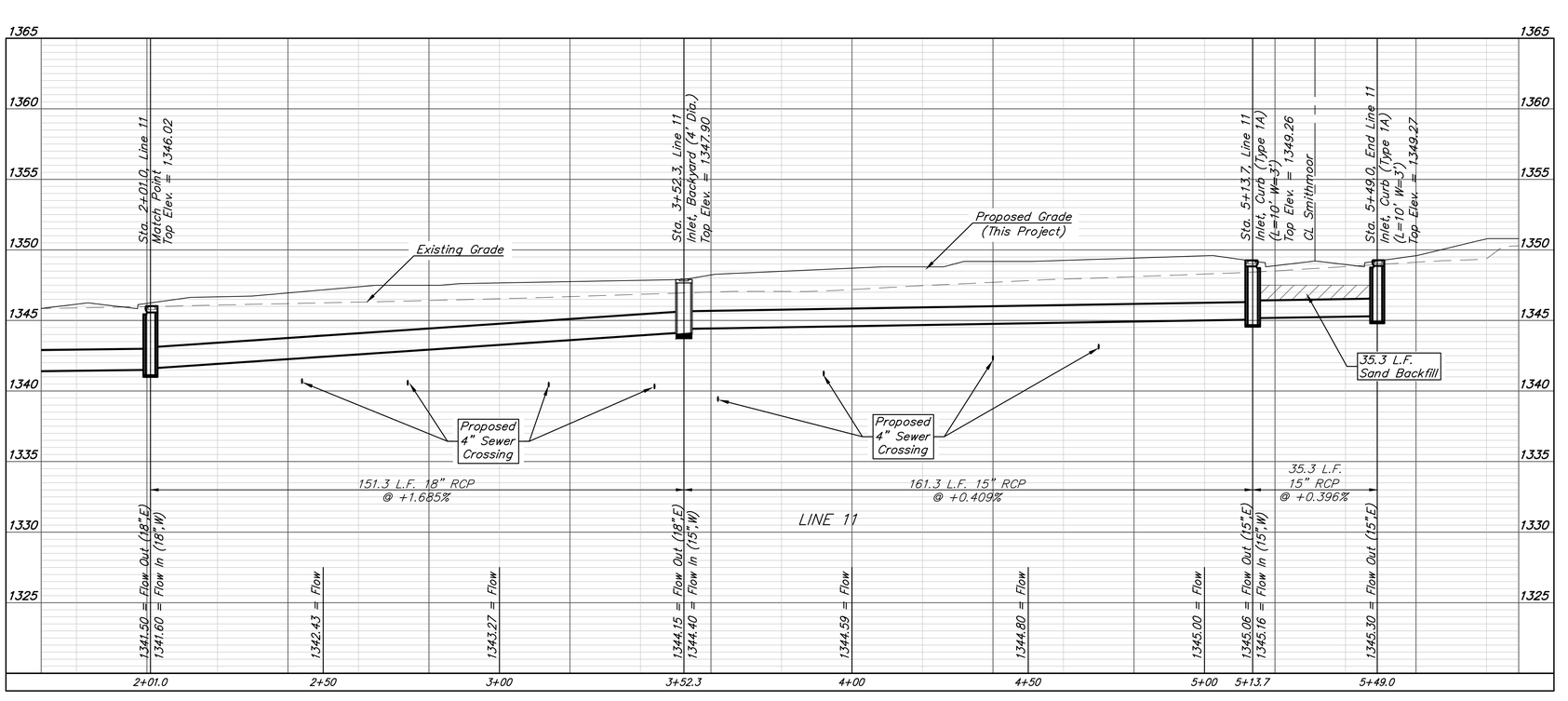

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PRAIRIE GLEN ADDITION
Phase 1

LINE 11

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 9, 2025

SHEET 16 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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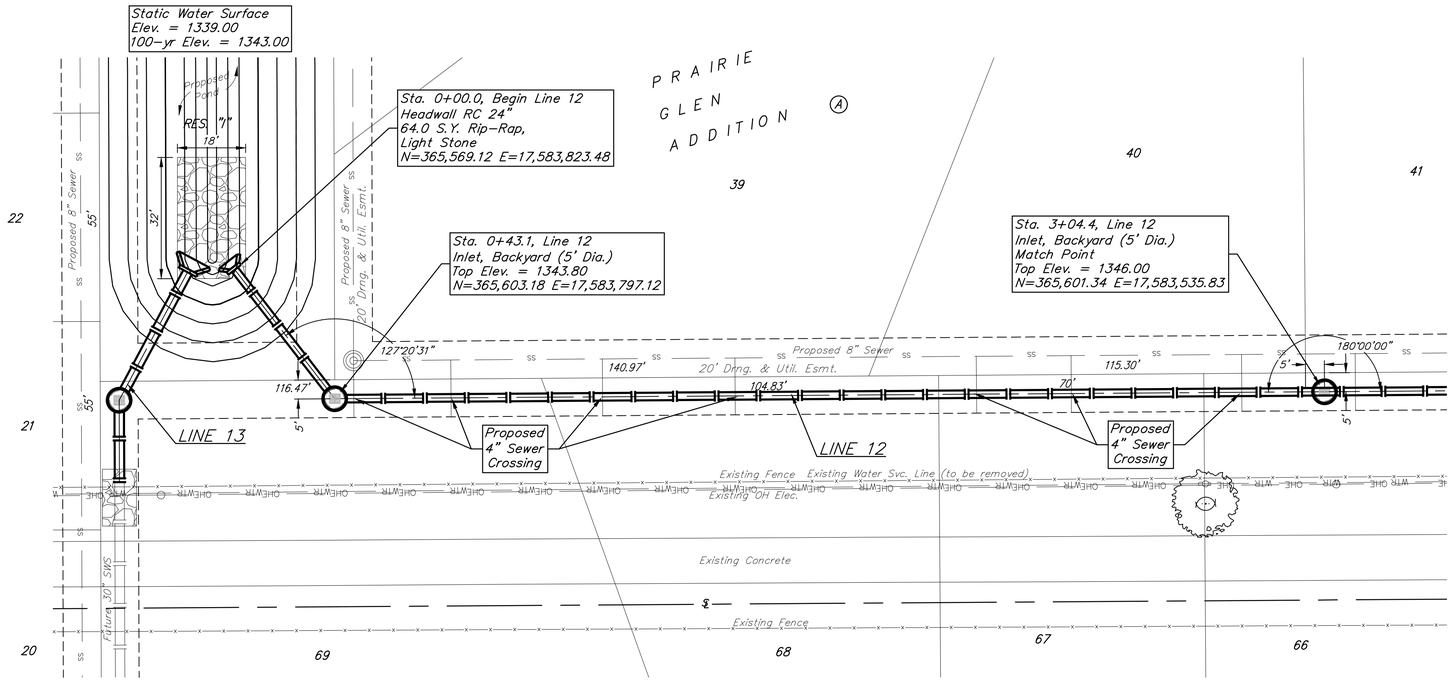

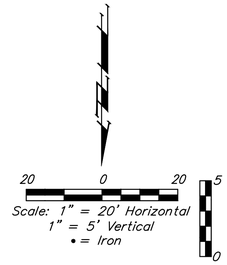

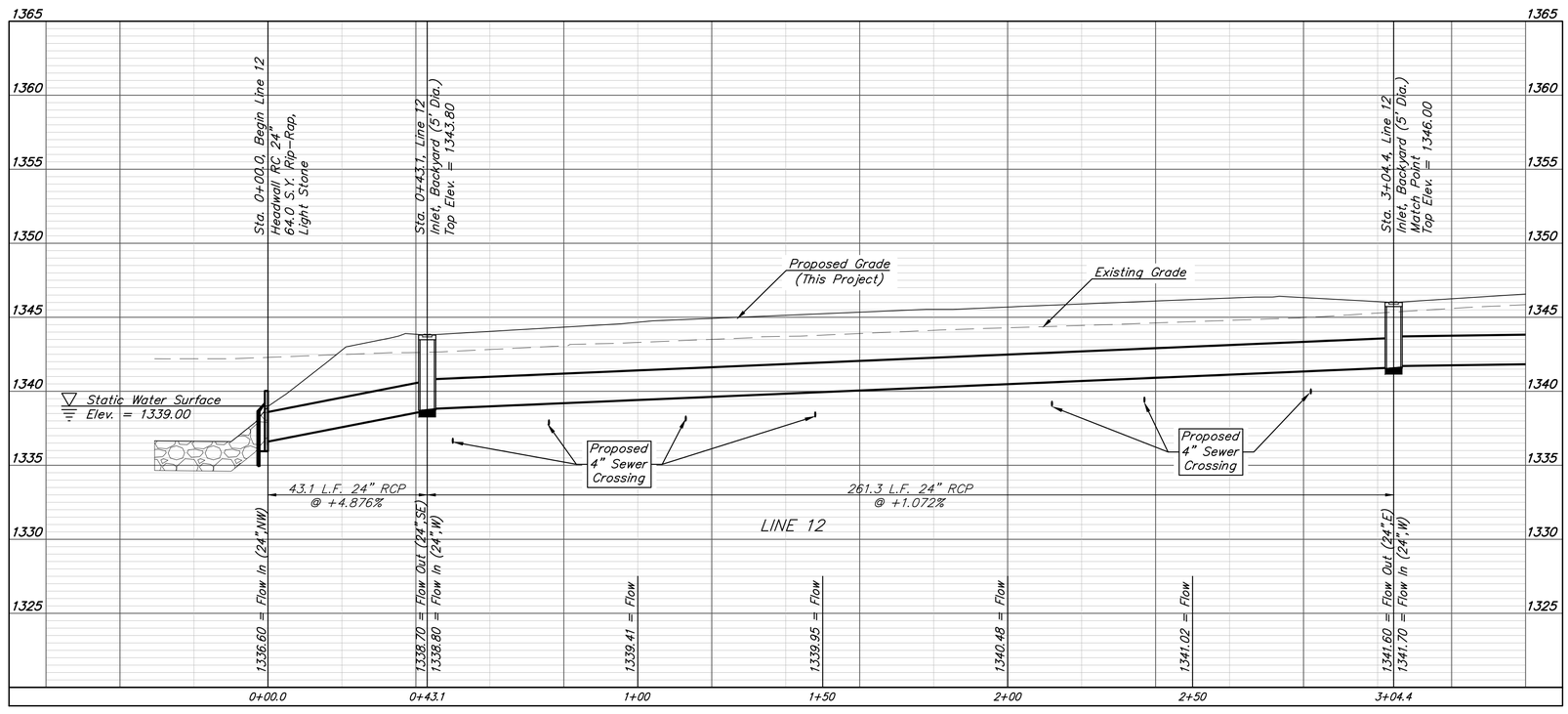

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PRAIRIE GLEN ADDITION
Phase 1

LINE 12

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 19, 2025

SHEET 17 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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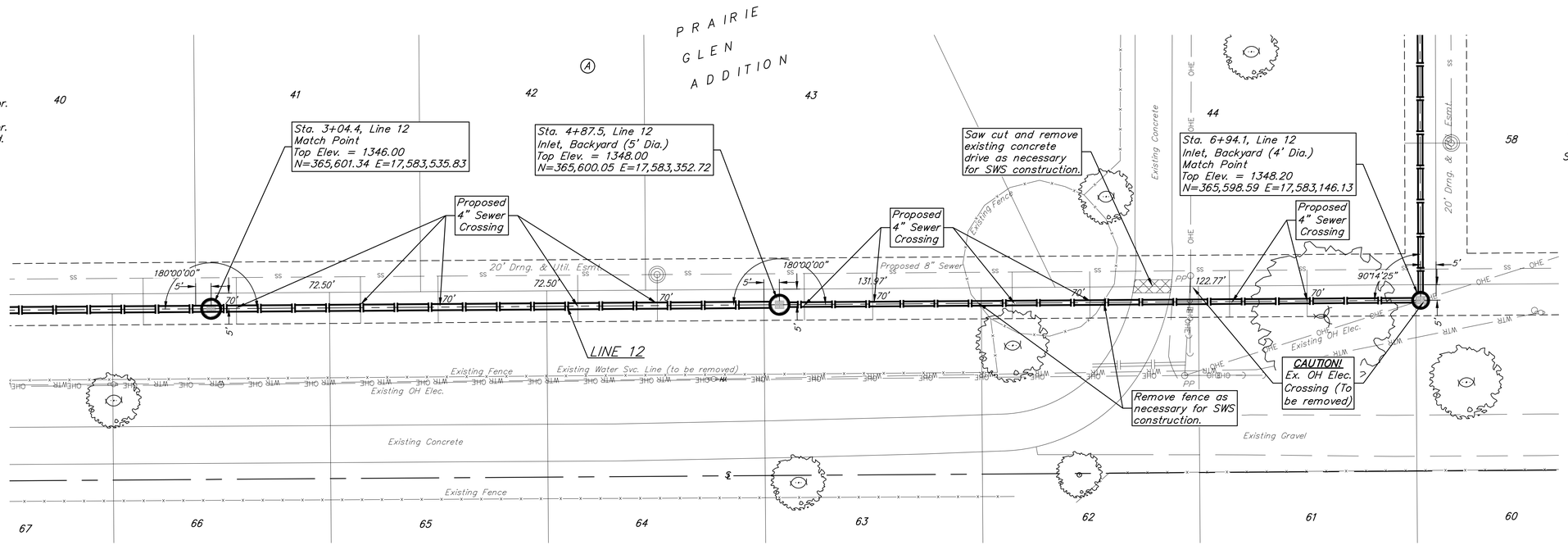

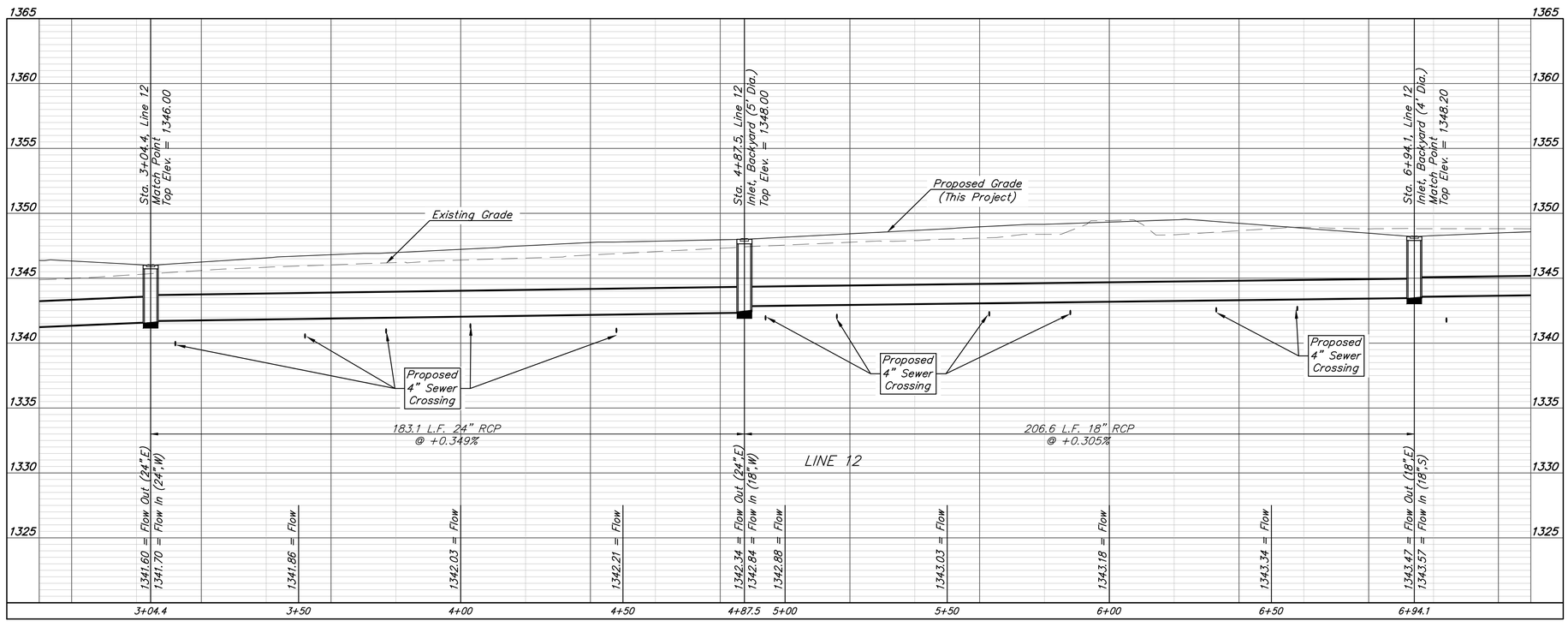

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PRAIRIE GLEN ADDITION
Phase 1

LINE 12

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 19, 2025

SHEET 18 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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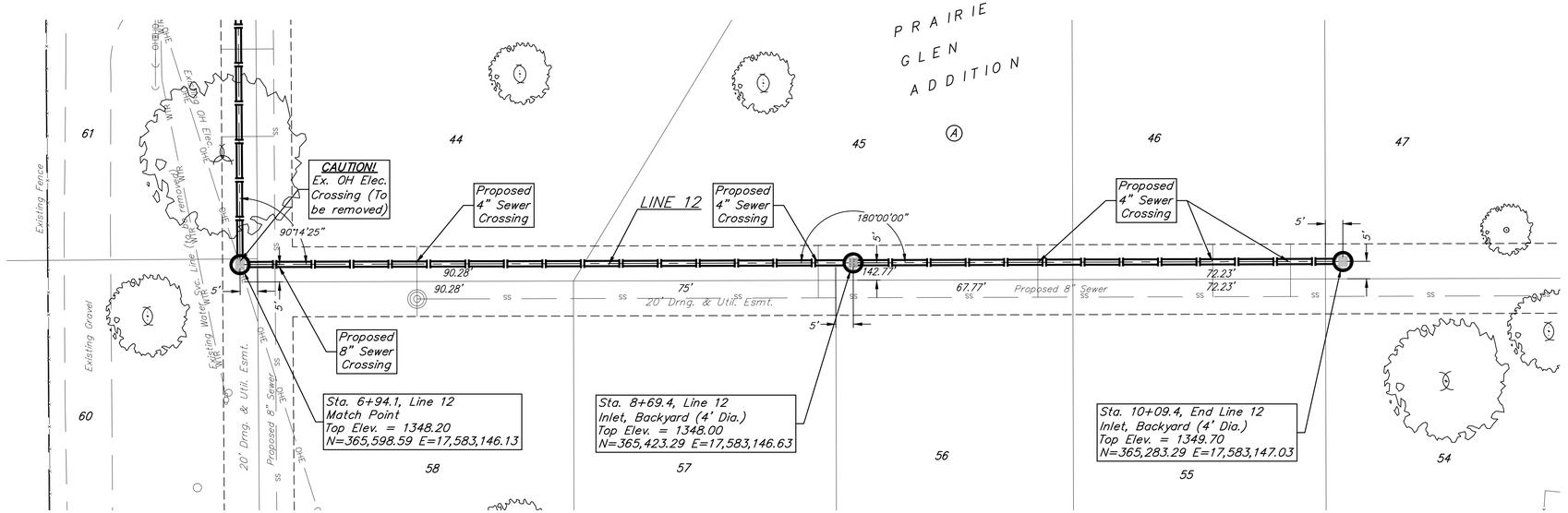

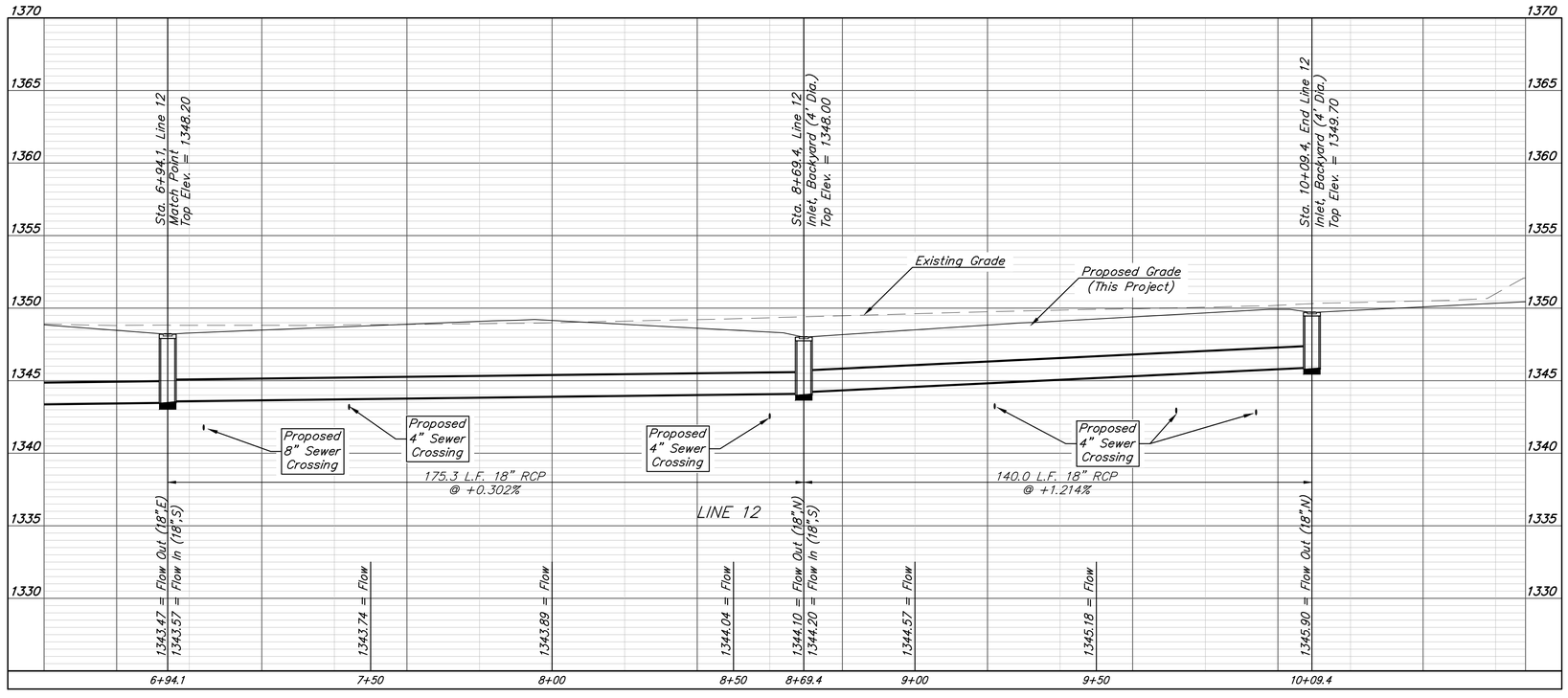

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Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron
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PRAIRIE GLEN ADDITION
Phase 1

LINE 12

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 19, 2025

SHEET 19 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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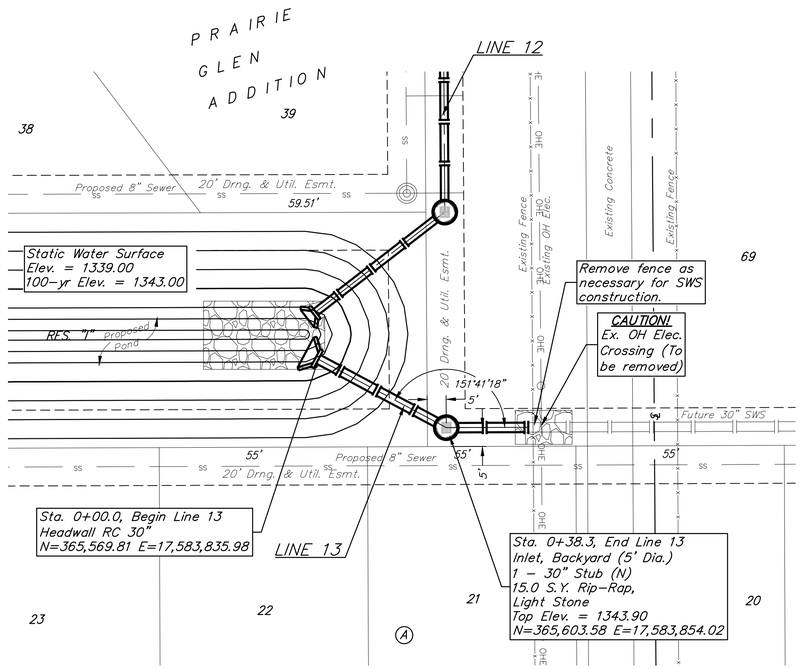

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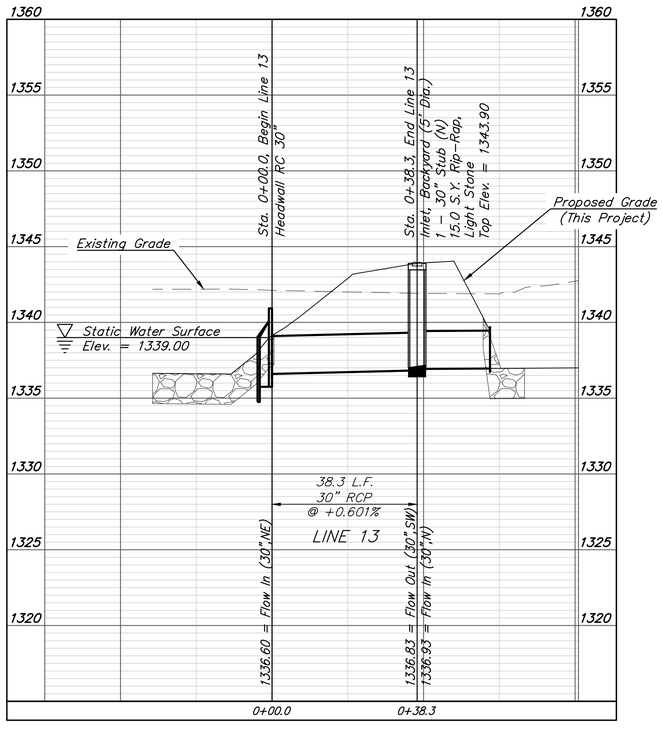

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PRAIRIE GLEN ADDITION
Phase 1

LINE 13

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 9, 2025

SHEET 20 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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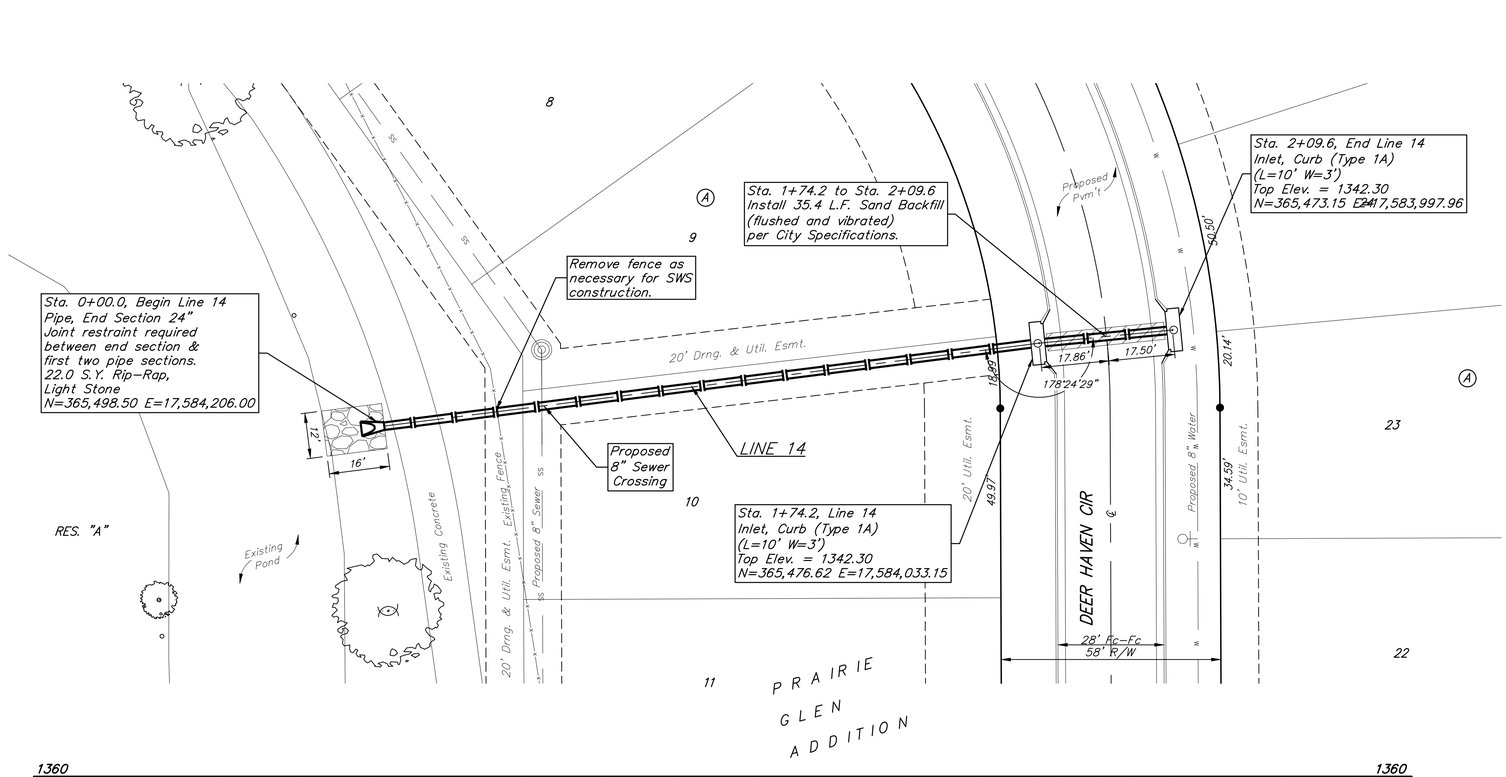

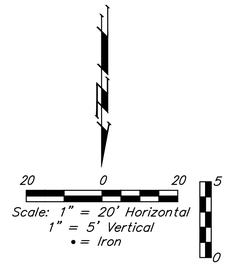

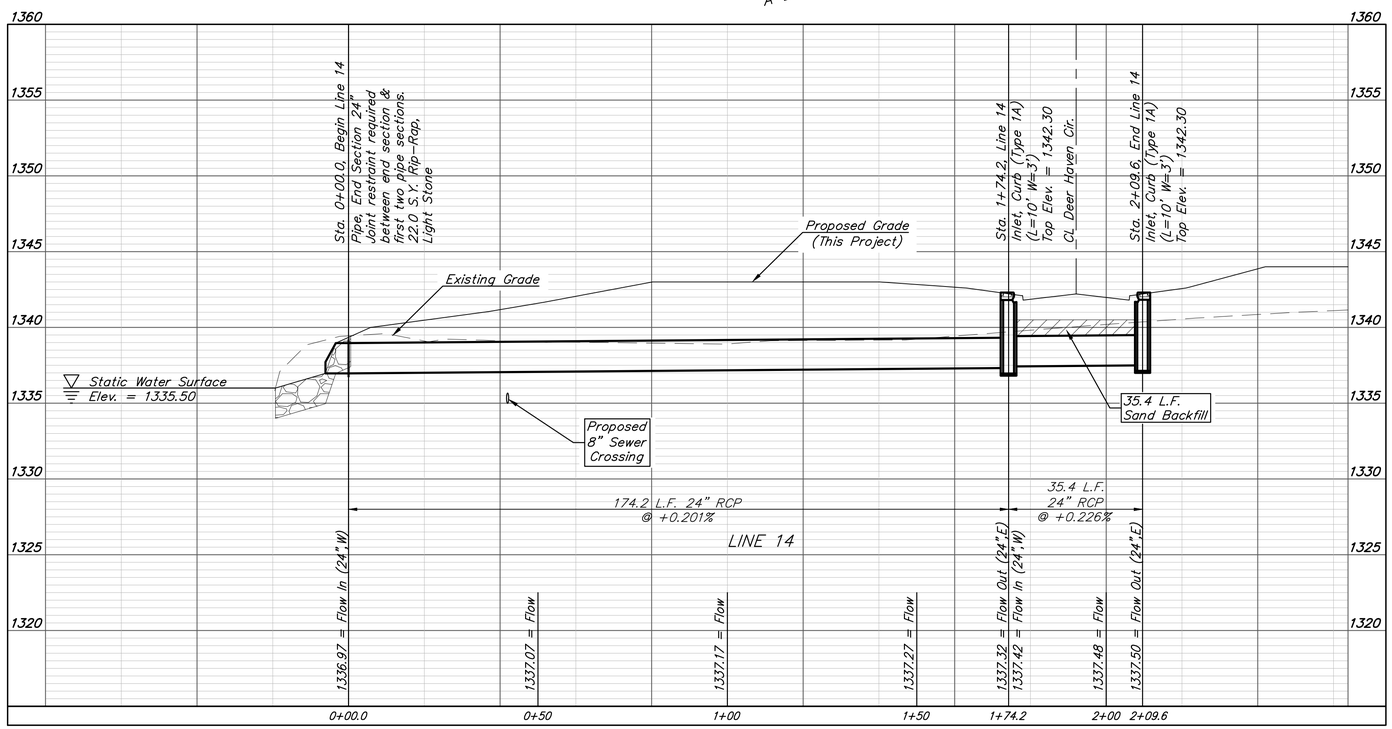

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PRAIRIE GLEN ADDITION
Phase 1

LINE 14

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 9, 2025

SHEET 21 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P9711\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

BENCHMARKS:
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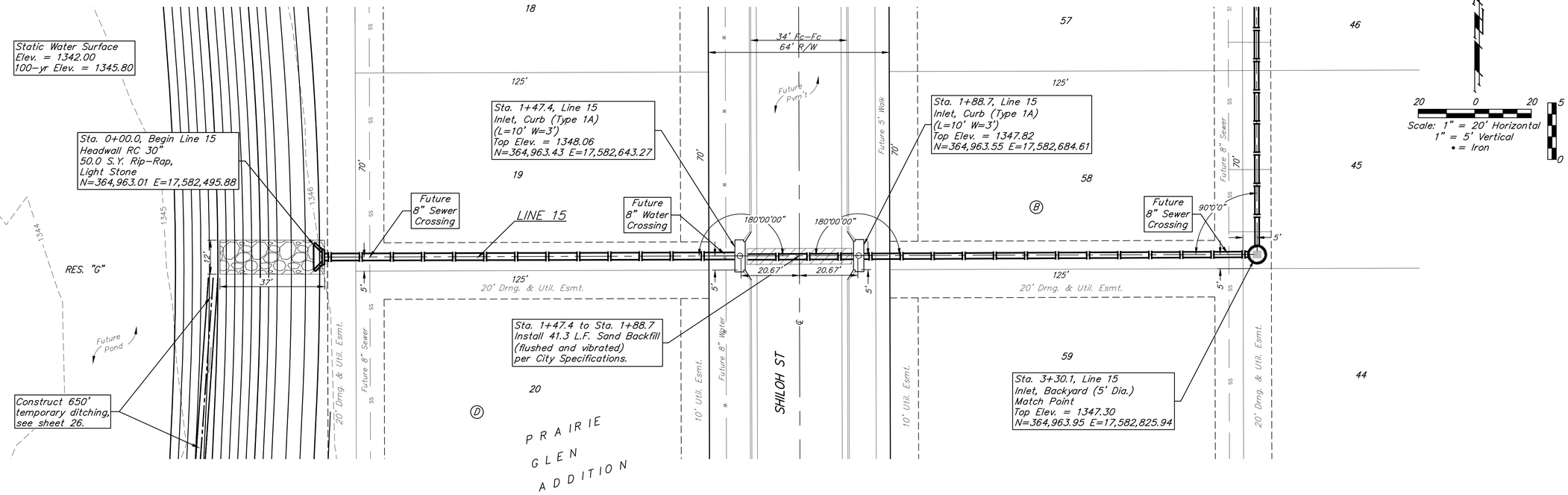

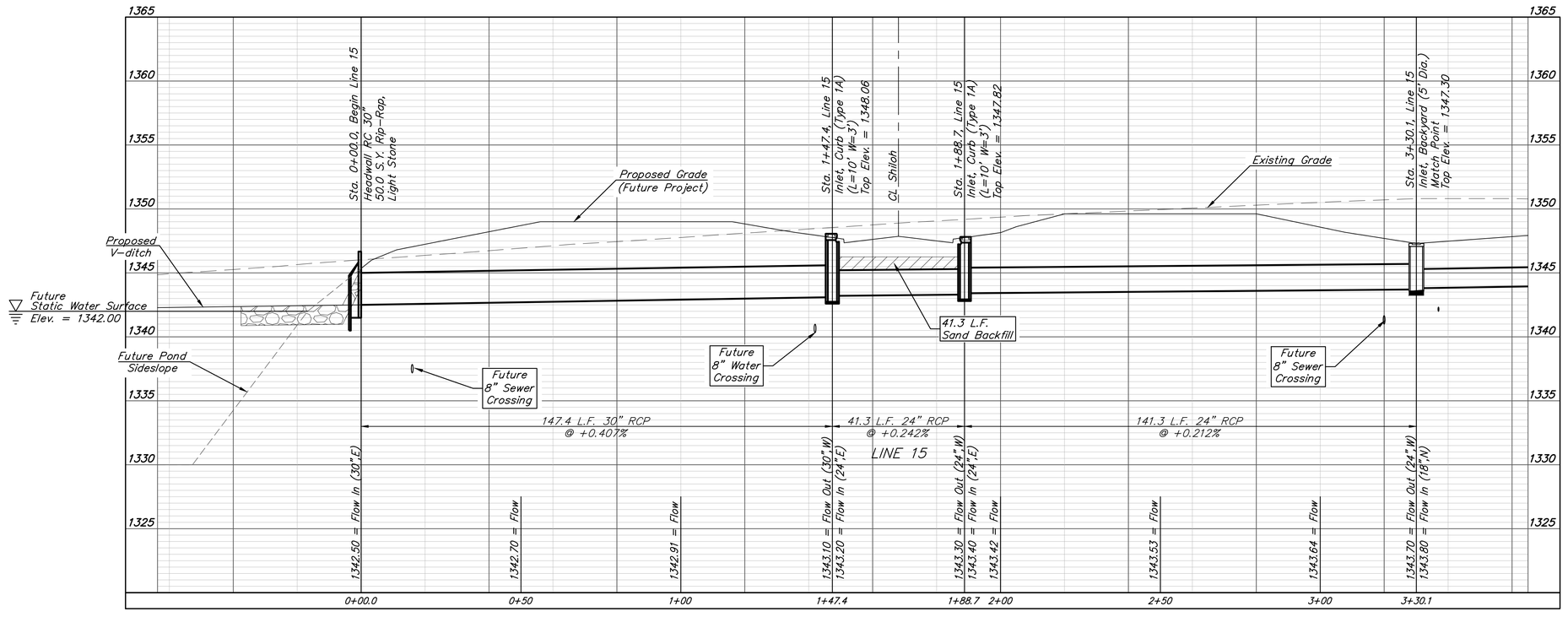

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PRAIRIE GLEN ADDITION
Phase 1

LINE 15

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 19, 2025

SHEET 22 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

BENCHMARKS:
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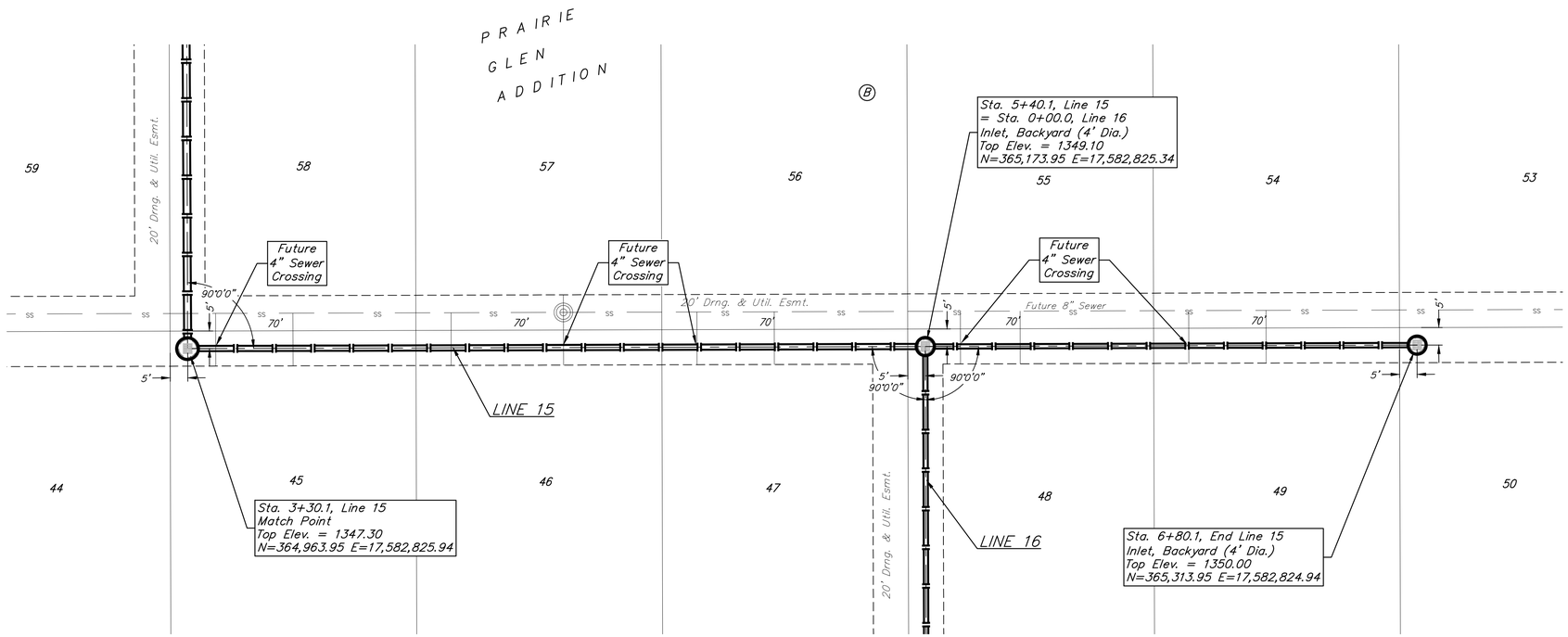

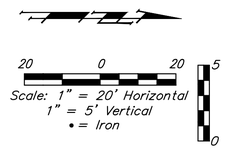

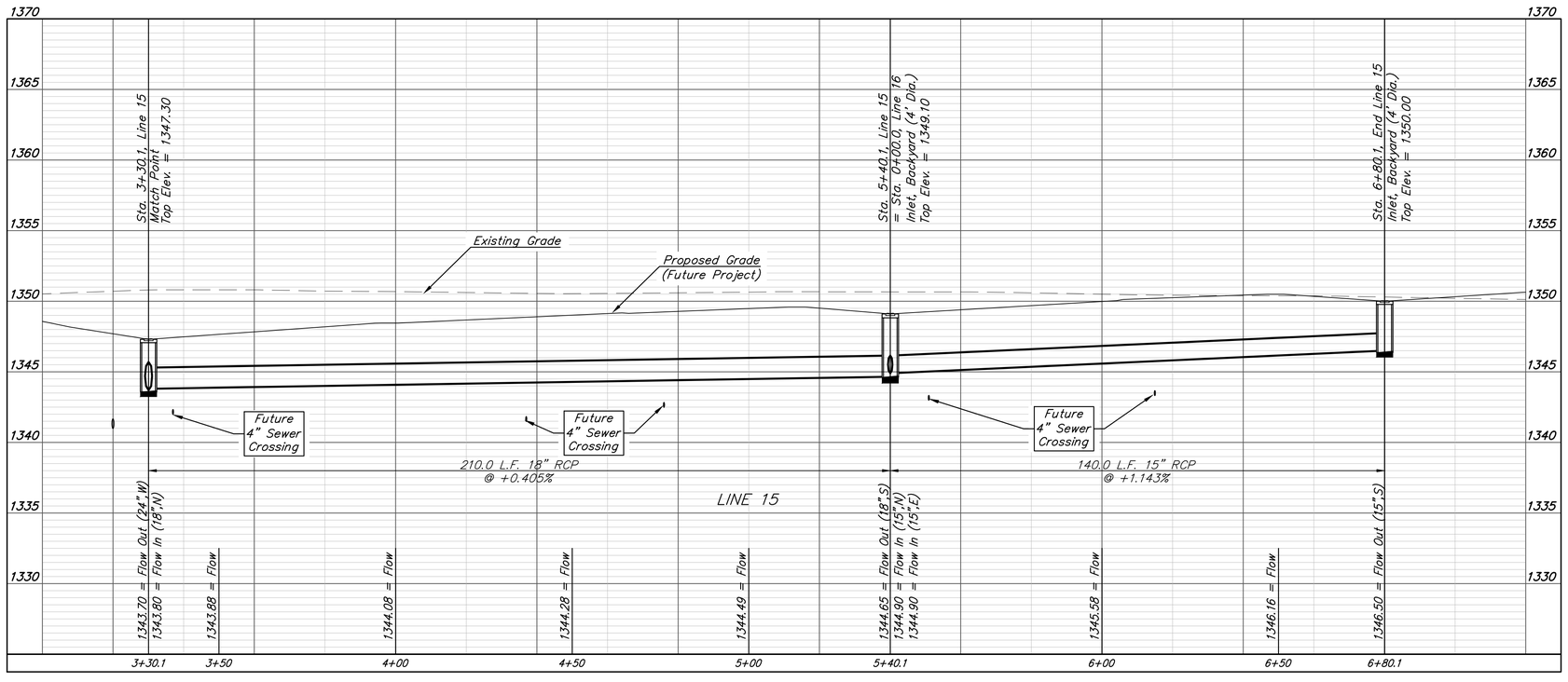

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PRAIRIE GLEN ADDITION
Phase 1

LINE 15

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 19, 2025

SHEET 23 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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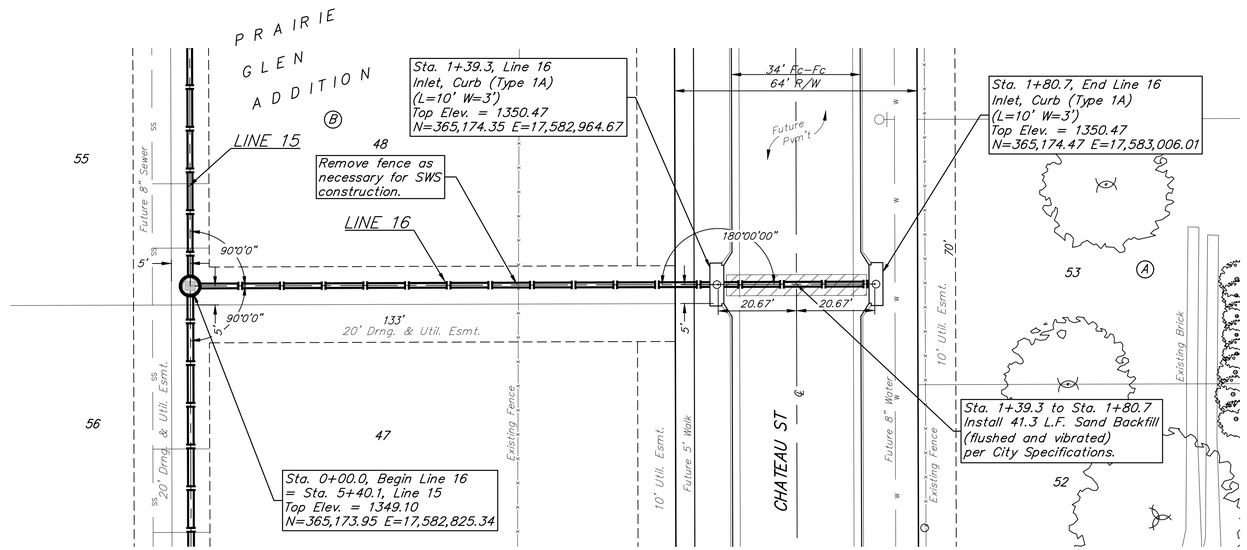

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Scale: 1" = 20' Horizontal
1" = 5' Vertical
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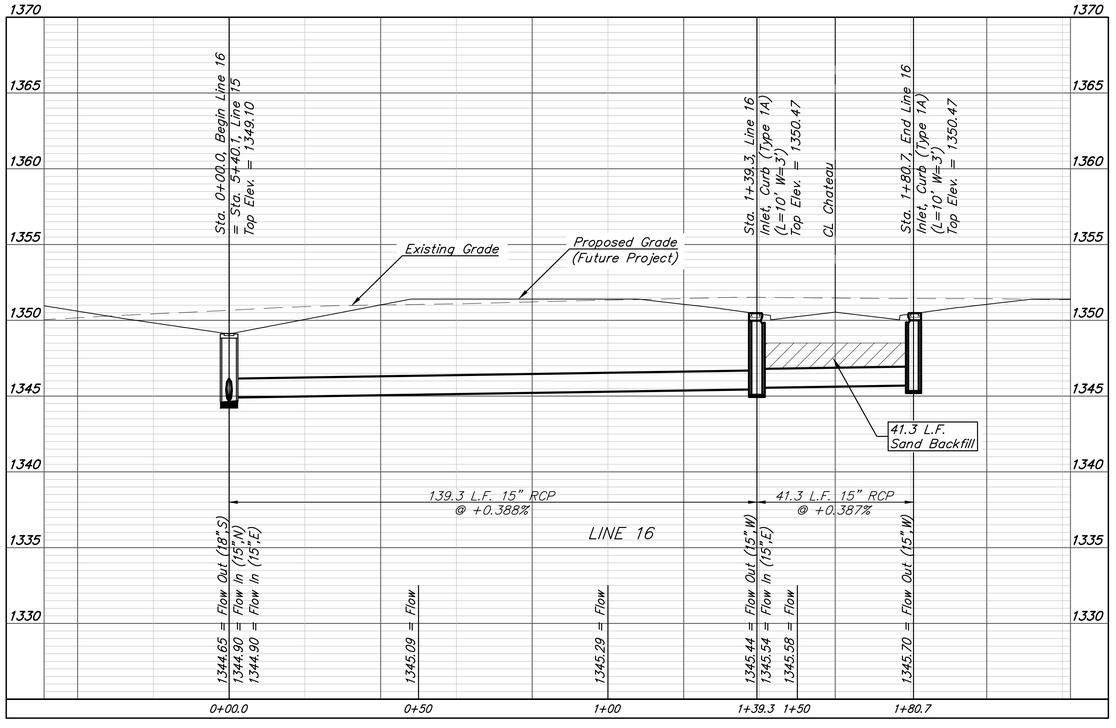

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PRAIRIE GLEN ADDITION
Phase 1

LINE 16

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS
DATE: May 19, 2025

SHEET 24 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

Tree to be removed

Compaction Testing Location

1350 Existing Grade

1350 Proposed Grade

Area to be graded

40 0 40

Scale: 1"=40'

EROSION CONTROL PLAN LEGEND

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

Install drop inlet sediment barriers per detail, sheet 47.

Install ditch check sediment barriers per detail, sheet 47.

Install drop inlet sediment barriers per detail, sheet 47.

Install ditch check sediment barriers per detail, sheet 47.

Install drop inlet sediment barriers per detail, sheet 47.

Install curb inlet sediment barriers per detail, sheet 45.

Install curb inlet sediment barriers per detail, sheet 45.

Install drop inlet sediment barriers per detail, sheet 47.

Install ditch check sediment barriers per detail, sheet 47.

Install drop inlet sediment barriers per detail, sheet 47.

Install curb inlet sediment barriers per detail, sheet 45.

Install ditch check sediment barriers per detail, sheet 47.

Install ditch check sediment barriers per detail, sheet 47.

Gas service line to be removed.

CHATEAU ST

LINCOLN ST

SMITHMOOR ST

LEEANNE ST

BAYLEY S

RES. "H"

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PRAIRIE GLEN ADDITION
Phase 1

MASS GRADING PLAN

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 15, 2025

SHEET 25 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat)_24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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

48.5 Ditch — Proposed Temp. Ditch Grade*

Compaction Testing Location

Install 260 L.F. silt fence per detail, sheet 46.

Install curb inlet sediment barriers per detail, sheet 45.

Install drop inlet sediment barriers per detail, sheet 47.

Install curb inlet sediment barriers per detail, sheet 45.

Install 50'x12' gravel construction entrance per detail, sheet 45.

Install curb inlet sediment barriers per detail, sheet 45

Install ditch check sediment barriers per detail, sheet 47.

Construct temporary ditching per detail, sheet 27.

Trees to be saved and protected.

Stone headwall and pipe to be removed as indicated along with adjacent tree stump.

Install 1,025 L.F. silt fence per detail, sheet 46.

Trees to be saved and protected.

Install ditch check sediment barriers per detail, sheet 47.

Construct temporary ditching per detail, sheet 27.

SHILOH ST

BEDELL ST

BM #2

RES. "G"

RES. "B"

DEER HAVEN CIR

Scale: 1"=40'

Tree to be removed

1350 Existing Grade

1350 Proposed Grade

Area to be graded

EROSION CONTROL PLAN LEGEND

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

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PRAIRIE GLEN ADDITION
Phase 1

MASS GRADING PLAN

STORM WATER SEWER IMPROVEMENTS

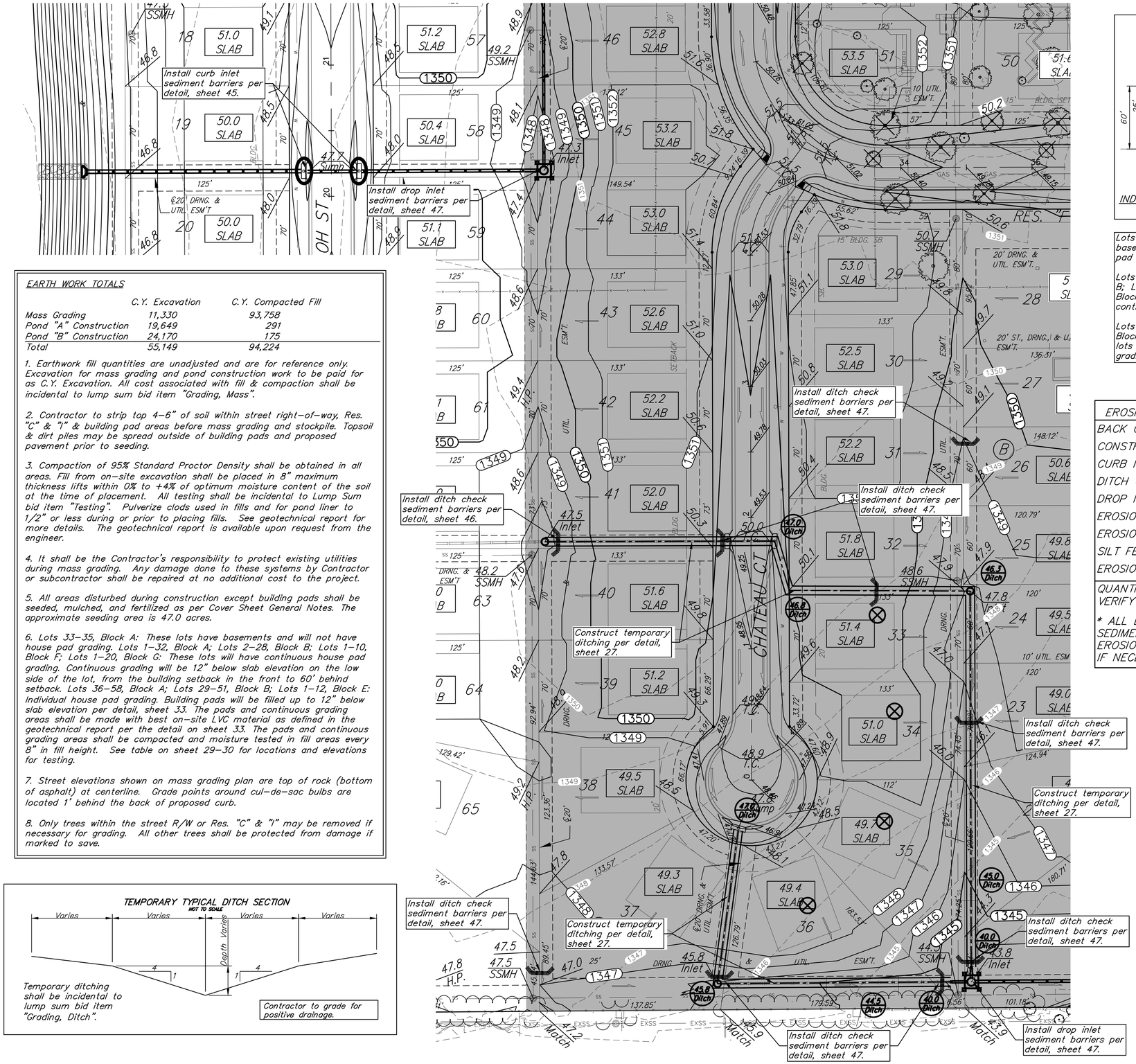
PROJECT NUMBER: 24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 20, 2025

SHEET 26 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg



EARTH WORK TOTALS

	C.Y. Excavation	C.Y. Compacted Fill
Mass Grading	11,330	93,758
Pond "A" Construction	19,649	291
Pond "B" Construction	24,170	175
Total	55,149	94,224

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".

2. Contractor to strip top 4–6" of soil within street right–of–way, Res. "C" & "I" & 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 47.0 acres.

6. Lots 33–35, Block A: These lots have basements and will not have house pad grading. Lots 1–32, Block A; Lots 2–28, Block B; Lots 1–10, Block F; Lots 1–20, Block G: These lots will have continuous house pad grading. Continuous grading will be 12" below slab elevation on the low side of the lot, from the building setback in the front to 60' behind setback. Lots 36–58, Block A; Lots 29–51, Block B; Lots 1–12, Block E: Individual house pad grading. Building pads will be filled up to 12" below slab elevation per detail, sheet 33. The pads and continuous grading areas shall be made with best on–site LVC material as defined in the geotechnical report per the detail on sheet 33. The pads and continuous grading areas shall be compacted and moisture tested in fill areas every 8" in fill height. See table on sheet 29–30 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.

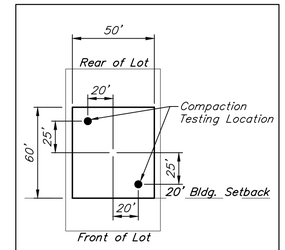
8. Only trees within the street R/W or Res. "C" & "I" may be removed if necessary for grading. All other trees shall be protected from damage if marked to save.

TEMPORARY TYPICAL DITCH SECTION

NOT TO SCALE

Temporary ditching shall be incidental to lump sum bid item "Grading, Ditch".

Contractor to grade for positive drainage.



INDIVIDUAL BUILDING PAD DETAIL

Lots 33–35, Block A: These lots have basements and will not have house pad grading.

Lots 1–32, Block A; Lots 2–28, Block B; Lots 1–10, Block F; Lots 1–20, Block G: These lots will have continuous house pad grading.

Lots 36–58, Block A; Lots 29–51, Block B; Lots 1–12, Block E: These lots will have individual house pad grading.

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

48.5 Ditch — Proposed Temp. Ditch Grade*

Compaction Testing Location

Tree to be removed

1350 — Existing Grade

1350 — Proposed Grade

Area to be graded

40 0 40

Scale: 1"=40'

EROSION CONTROL MEASURE	INSTALL	MAINTAIN	REMOVE
BACK OF CURB PROTECTION (LF)	0	0	0
CONSTRUCTION ENTRANCE (EA)	1	0	0
CURB INLET BARRIER (EA)	21	0	0
DITCH CHECK (EA)	25	0	0
DROP INLET PROTECTION (EA)	20	0	0
EROSION CONTROL (LS)	0	0	0
EROSION CONTROL BERM (LF)	1,375	0	0
SILT FENCE (LF)	1,865	0	0
EROSION CONTROL MAT (SY)	6,870	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.

EROSION CONTROL PLAN LEGEND

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

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PRAIRIE GLEN ADDITION
Phase 1

MASS GRADING PLAN

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER: 24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 19, 2025

SHEET 27 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

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

Tree to be removed

Compaction Testing Location

1350 Existing Grade

1350 Proposed Grade

Area to be graded

40 0 40

Scale: 1"=40'

Proposed Temp. Ditch Grade*

Install curb inlet sediment barriers per detail, sheet 45.

Gas service line to be removed.

Install curb inlet sediment barriers per detail, sheet 45.

Install drop inlet sediment barriers per detail, sheet 47.

Install curb inlet sediment barriers per detail, sheet 45.

Install 580 L.F. silt fence per detail, sheet 46.

Install drop inlet sediment barriers per detail, sheet 47.

Install ditch check sediment barriers per detail, sheet 47.

Construct temporary ditching per detail, sheet 27.

Install drop inlet sediment barriers per detail, sheet 48.

Install ditch check sediment barriers per detail, sheet 47.

Install ditch check sediment barriers per detail, sheet 48.

Install drop inlet sediment barriers per detail, sheet 47.

Install ditch check sediment barriers per detail, sheet 47.

Install drop inlet sediment barriers per detail, sheet 48.

Install drop inlet sediment barriers per detail, sheet 47.

EROSION CONTROL PLAN LEGEND

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

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PRAIRIE GLEN ADDITION
Phase 1

MASS GRADING PLAN

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 15, 2025

SHEET 28 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat)_24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

NOTES:

1. All of the power poles and overhead electric lines have been removed by owner prior to SWD construction for Evergy to release easements. All remaining power poles and concrete bases within the interior of the site to be removed.

2. Existing water well to be capped by KDHE certified contractor using KDHE standard well abandonment procedures.

3. Water service line and yard hydrants to be removed. Water meter to be removed per City of Wichita code at Greenwich Rd.

4. Gas service line to be removed.

5. SW part of existing pond: Stone headwall and pipe to be removed as indicated along with adjacent dead tree.

6. Stone monument sign at entrance to be removed.

7. Existing fence along west R/W line of Greenwich Road has already been removed. Remaining perimeter fence to remain.

8. Septic lateral field to be overexcavated and soil recompacted as noted. Remove existing septic tank and any lateral fields at the outhouse location per KDHE standards.

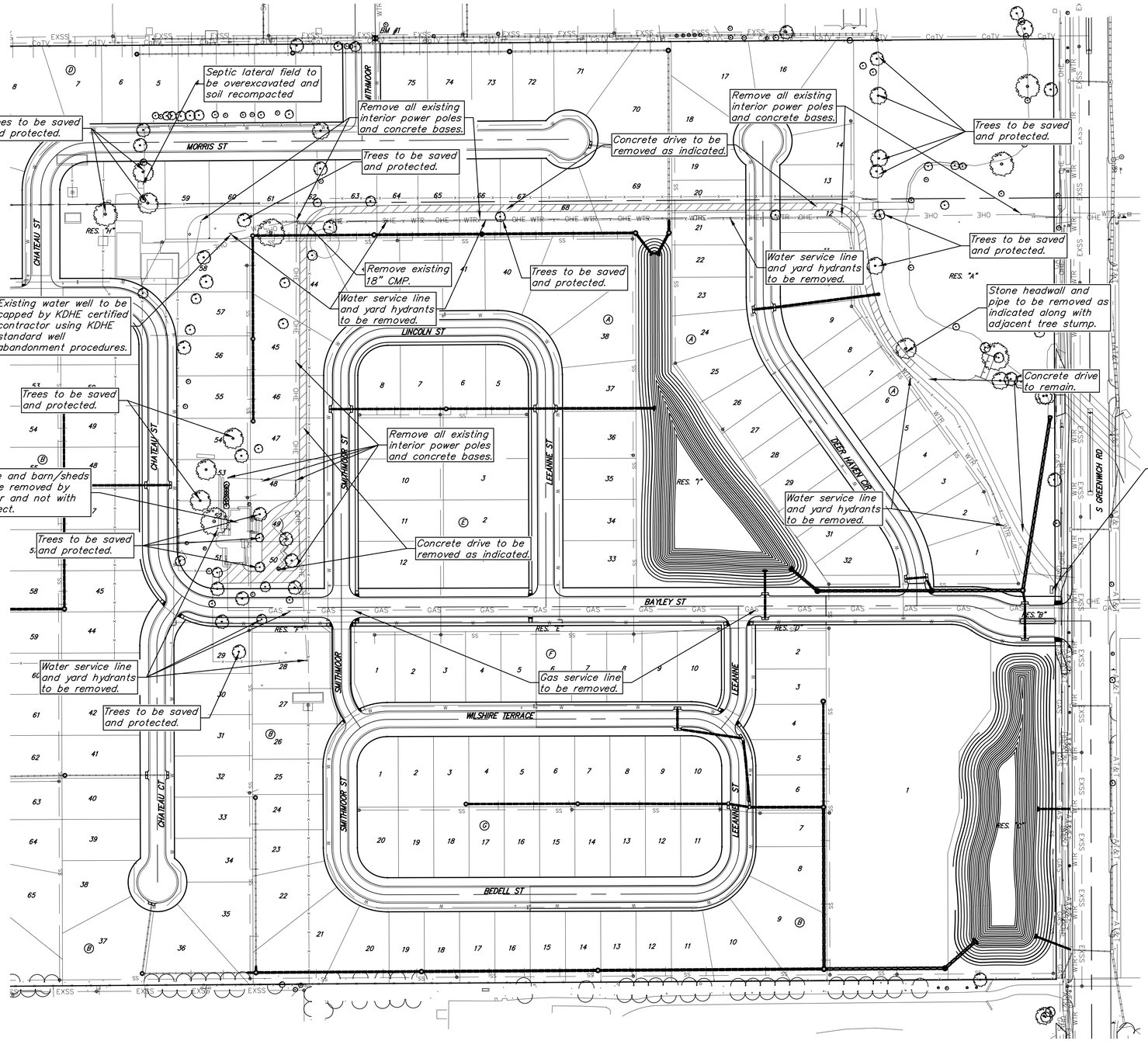
9. All house and barn/sheds are to be removed by the owner and not with this project.

10. Several trees are to be saved and protected as indicated. Other trees are to be removed.

11. All remaining fences including pipe fences are to be removed by the owner and not the project.

12. Portion of concrete drive to be removed as indicated. Remaining concrete drive to remain.

13. The Contractor shall remove all remnants of demolition and all other miscellaneous debris found on this site. The Contractor shall dispose of the removed materials in a safe, legal, and responsible manner. All costs of demolition and disposal of removed materials shall be included in the lump sum bid item "Site Clearing" bid item. Cost to cap water well, removal of water line, yard hydrants, water meter, gas lines, stone headwall, pipe, trees, monument sign, septic lateral field, septic tank, fences, concrete drive, power poles and bases, etc. to be incidental to lump sum bid item "Site Clearing" bid item.



100 0 100

Scale: 1"=100'

Water meter to be removed per City of Wichita code.

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PRAIRIE GLEN ADDITION
Phase 1

SITE CLEARING PLAN

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 19, 2025

SHEET 29 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

	Location		Top of LVC	Compaction % and Test Elevation																
Lot	Northing	Easting	Fill Elev.	1336.00	1337.00	1338.00	1339.00	1340.00	1341.00	1342.00	1343.00	1344.00	1345.00	1346.00	1347.00	1348.00	1349.00	1350.00	1351.00	1352.00	1353.00
1A	17,584,351	365,055	1342.0	X							X	X	X	X	X	X	X	X	X	X	X
2A	17,584,332	365,115	1343.3	X	X							X	X	X	X	X	X	X	X	X	X
3A	17,584,301	365,167	1343.5	X	X							X	X	X	X	X	X	X	X	X	X
4A	17,584,269	365,212	1343.7	X	X	X						X	X	X	X	X	X	X	X	X	X
5A	17,584,237	365,257	1344.1	X	X	X							X	X	X	X	X	X	X	X	X
6A	17,584,205	365,302	1344.3	X	X	X							X	X	X	X	X	X	X	X	X
7A	17,584,173	365,346	1343.8	X	X	X						X	X	X	X	X	X	X	X	X	X
8A	17,584,141	365,391	1343.4	X	X	X						X	X	X	X	X	X	X	X	X	X
9A	17,584,110	365,442	1343.0	X	X	X						X	X	X	X	X	X	X	X	X	X
10A	17,584,095	365,516	1343.0	X	X	X	X					X	X	X	X	X	X	X	X	X	X
11A	17,584,095	365,574	1343.3	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
12A	17,584,094	365,634	1343.7	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X
13A	17,584,094	365,691	1344.3	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
14A	17,584,116	365,747	1344.8	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
15A	17,584,099	365,814	1345.1	X	X	X	X	X	X					X	X	X	X	X	X	X	X
16A	17,584,039	365,858	1345.7	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X
17A	17,583,961	365,845	1345.7	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X
18A	17,583,915	365,779	1344.9	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
19A	17,583,915	365,719	1344.5	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
20A	17,583,934	365,667	1344.5	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
21A	17,583,935	365,612	1344.2	X	X	X	X	X					X	X	X	X	X	X	X	X	X
22A	17,583,935	365,557	1344.1	X	X	X	X	X					X	X	X	X	X	X	X	X	X
23A	17,583,935	365,500	1344.0	X	X	X	X	X					X	X	X	X	X	X	X	X	X
24A	17,583,941	365,438	1344.0	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
25A	17,583,959	365,380	1344.0	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
26A	17,583,990	365,328	1344.0	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
27A	17,584,022	365,283	1344.2	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
28A	17,584,053	365,239	1344.4	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
29A	17,584,085	365,195	1344.3	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
30A	17,584,116	365,151	1344.2	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
31A	17,584,148	365,107	1344.0	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
32A	17,584,180	365,057	1344.0	X	X	X	X	X					X	X	X	X	X	X	X	X	X
36A	17,583,723	365,259	1346.9	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
37A	17,583,722	365,339	1347.8	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X
38A	17,583,713	365,416	1347.1	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X
39A	17,583,669	365,482	1347.4	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X
40A	17,583,581	365,520	1347.8	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X
41A	17,583,505	365,521	1348.2	X	X	X	X	X	X	X	X	X	X				X	X	X	X	X
42A	17,583,430	365,515	1348.6	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
43A	17,583,356	365,519	1349.0	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X
44A	17,583,268	365,479	1350.2	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X
45A	17,583,222	365,403	1350.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
47A	17,583,217	365,253	1351.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X
48A	17,583,217	365,183	1351.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X
54A	17,583,067	365,253	1352.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
55A	17,583,066	365,323	1352.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
56A	17,583,066	365,395	1352.0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
57A	17,583,065	365,463	1351.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X
58A	17,583,028	365,539	1351.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X
2B	17,584,051	364,892	1344.5	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
3B	17,584,051	364,831	1344.0	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
4B	17,584,048	364,771	1343.5	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
5B	17,584,051	364,713	1342.0	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X
6B	17,584,051	364,656	1341.5	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X
7B	17,584,052	364,586	1341.8	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X

X = No testing required at this elevation.

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PRAIRIE GLEN ADDITION
Phase 1

COMPACTION TABLE

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

DATE: May 9, 2025

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

	Location		Top of LVC	Compaction % and Test Elevation																
Lot	Northing	Easting	Fill Elev.	1336.00	1337.00	1338.00	1339.00	1340.00	1341.00	1342.00	1343.00	1344.00	1345.00	1346.00	1347.00	1348.00	1349.00	1350.00	1351.00	1352.00	1353.00
8B	17,584,047	364,522	1342.6	X	X	X					X	X	X	X	X	X	X	X	X	X	X
9B	17,584,014	364,456	1342.8	X	X						X	X	X	X	X	X	X	X	X	X	X
10B	17,583,955	364,412	1342.9	X	X	X						X	X	X	X	X	X	X	X	X	X
11B	17,583,888	364,400	1343.0	X	X	X						X	X	X	X	X	X	X	X	X	X
12B	17,583,828	364,400	1343.3	X	X	X	X					X	X	X	X	X	X	X	X	X	X
13B	17,583,768	364,400	1343.6	X	X	X	X					X	X	X	X	X	X	X	X	X	X
14B	17,583,708	364,399	1343.9	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
15B	17,583,648	364,399	1344.2	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
16B	17,583,588	364,399	1344.5	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
17B	17,583,528	364,399	1344.8	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
18B	17,583,468	364,399	1345.1	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
19B	17,583,408	364,399	1345.4	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
20B	17,583,340	364,402	1345.6	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
21B	17,583,275	364,433	1346.2	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X
22B	17,583,230	364,491	1347.2	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X
23B	17,583,216	364,558	1348.0	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
24B	17,583,215	364,618	1348.5	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
33B	17,583,062	364,609	1350.4	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X
34B	17,583,082	364,539	1350.0	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X
35B	17,583,075	364,458	1348.7	X	X	X	X	X	X	X	X	X	X	X				X	X	X	X
36B	17,583,018	364,405	1348.4	X	X	X	X	X	X	X	X	X	X	X				X	X	X	X
49B	17,582,903	365,274	1352.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
50B	17,582,902	365,344	1352.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
51B	17,582,897	365,414	1351.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X
2E	17,583,565	365,114	1349.2	X	X	X	X	X	X	X	X	X	X	X				X	X	X	X
3E	17,583,565	365,184	1350.7	X	X	X	X	X	X	X	X	X	X	X					X	X	X
4E	17,583,565	365,254	1348.8	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
5E	17,583,571	365,360	1348.0	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
6E	17,583,506	365,363	1348.4	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
7E	17,583,433	365,362	1348.8	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
8E	17,583,367	365,357	1349.8	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X
9E	17,583,375	365,253	1351.3	X	X	X	X	X	X	X	X	X	X	X	X					X	X
10E	17,583,375	365,183	1351.5	X	X	X	X	X	X	X	X	X	X	X	X					X	X
11E	17,583,375	365,113	1352.0	X	X	X	X	X	X	X	X	X	X	X	X	X					X
12E	17,583,375	365,043	1351.2	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X
6F	17,583,658	364,855	1346.3	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
7F	17,583,718	364,855	1345.8	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
8F	17,583,778	364,856	1345.0	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
9F	17,583,838	364,856	1344.8	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
10F	17,583,898	364,856	1344.4	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
6G	17,583,663	364,697	1345.4	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
7G	17,583,723	364,697	1345.0	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
8G	17,583,783	364,698	1344.5	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
9G	17,583,843	364,698	1344.0	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
10G	17,583,902	364,689	1344.0	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
11G	17,583,902	364,566	1343.2	X	X	X	X					X	X	X	X	X	X	X	X	X	X
12G	17,583,844	364,558	1343.7	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
13G	17,583,784	364,558	1344.2	X	X	X	X	X					X	X	X	X	X	X	X	X	X
14G	17,583,724	364,557	1344.6	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X
15G	17,583,664	364,557	1344.8	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X
16G	17,583,604	364,557	1345.1	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X
17G	17,583,544	364,557	1345.5	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
D.H. Cir.	17,584,270	365,039	1341.0	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X
D.H. Cir.	17,584,211	365,157	1342.4	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X
D.H. Cir.	17,584,128	365,271	1343.0	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X
Leanne	17,583,644	365,151	1348.3	X	X	X	X	X	X	X	X	X	X				X	X	X	X	X
Bedell	17,583,895	364,479	1341.6	X	X	X	X			X	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
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PRAIRIE GLEN ADDITION
Phase 1

COMPACTION TABLE

STORM WATER SEWER IMPROVEMENTS

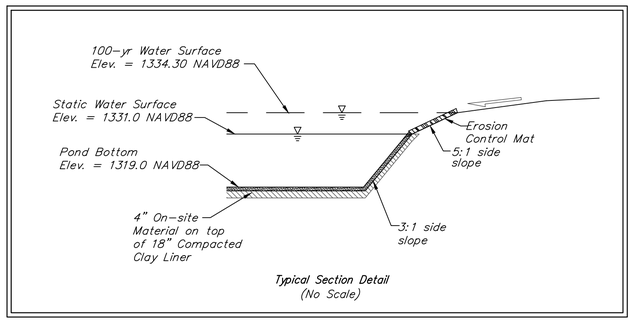
PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

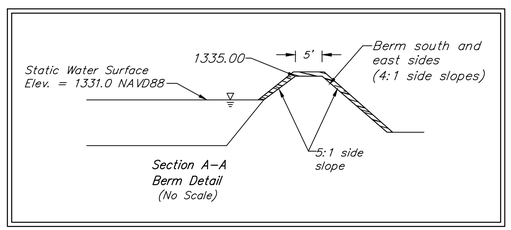
DATE: May 9, 2025

SHEET 31 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat)_24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg



Typical Section Detail
(No Scale)



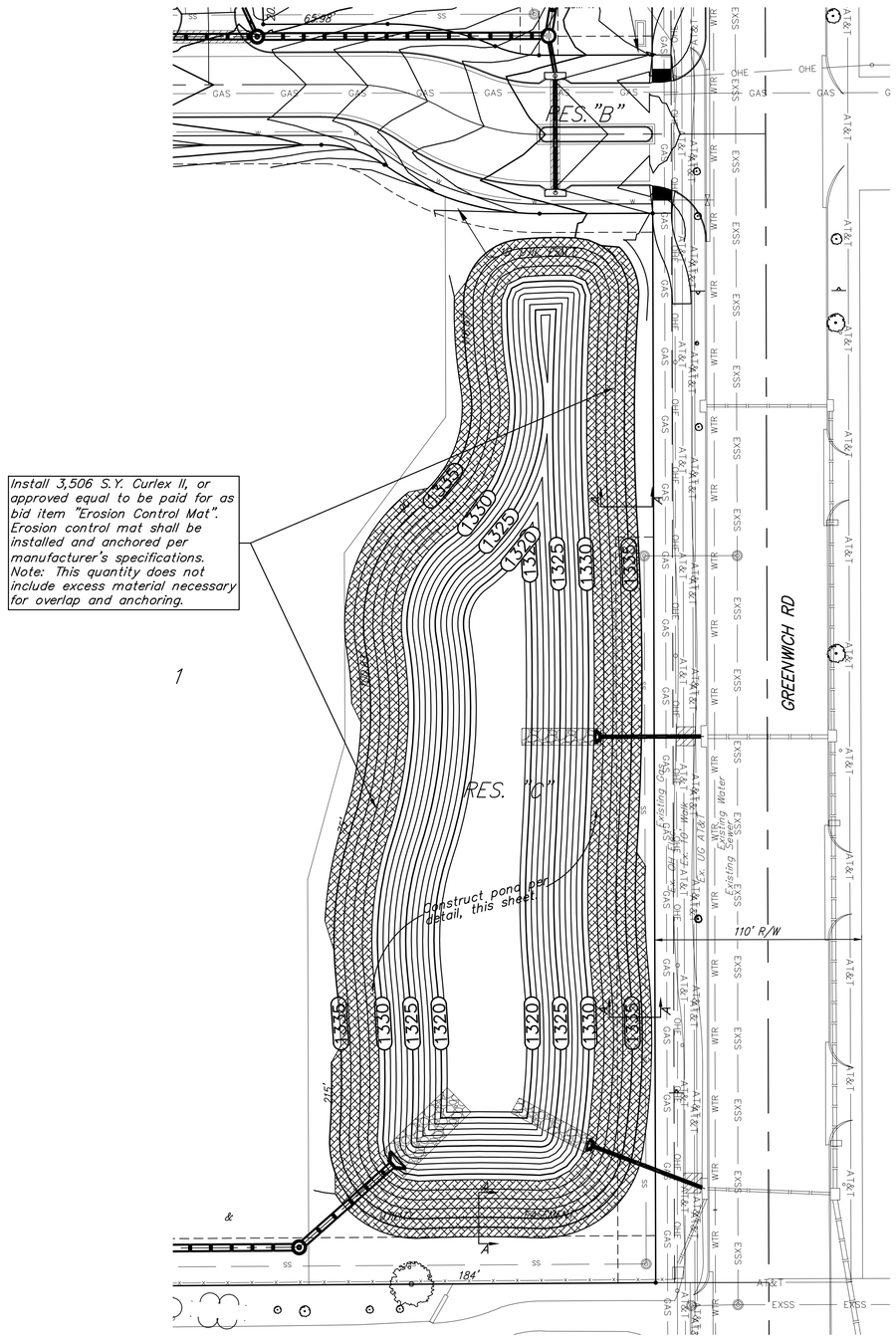
Section A-A
Berm Detail
(No Scale)

EARTH WORK TOTALS	C.Y. Excavation	C.Y. Compacted Fill
Mass Grading	11,330	93,758
Pond "A" Construction	19,649	291
Pond "B" Construction	24,170	175
Total	55,149	94,224

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".

NOTES:

1. Pond bottom and sideslopes below static pool elevation shall be over-excavated 1'-10" and a 18" clay liner shall be compacted to 95% std. density. The best on-site material shall be used for the pond liner. The top 6" of the clay liner shall be modified with Wyoming Bentonite Clay at a rate of 4%. 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 "Pond Sealing".
2. All areas disturbed by construction shall be seeded as indicated on cover sheet.
3. Install Erosion Control Mat (Curlex II or approved equal) from the water surface to top bank. To be paid for as bid item "Erosion Control Mat".



1350 Existing Grade

1350 Proposed Grade

40 0 40

Scale: 1"=40'

EROSION CONTROL PLAN
LEGEND

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

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

PRAIRIE GLEN ADDITION
Phase 1

POND PLAN "A"

STORM WATER SEWER IMPROVEMENTS

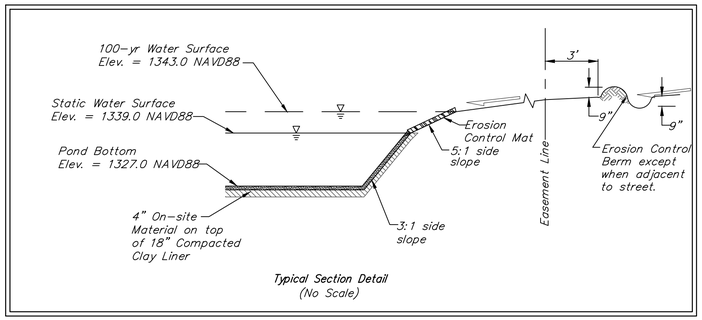
PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

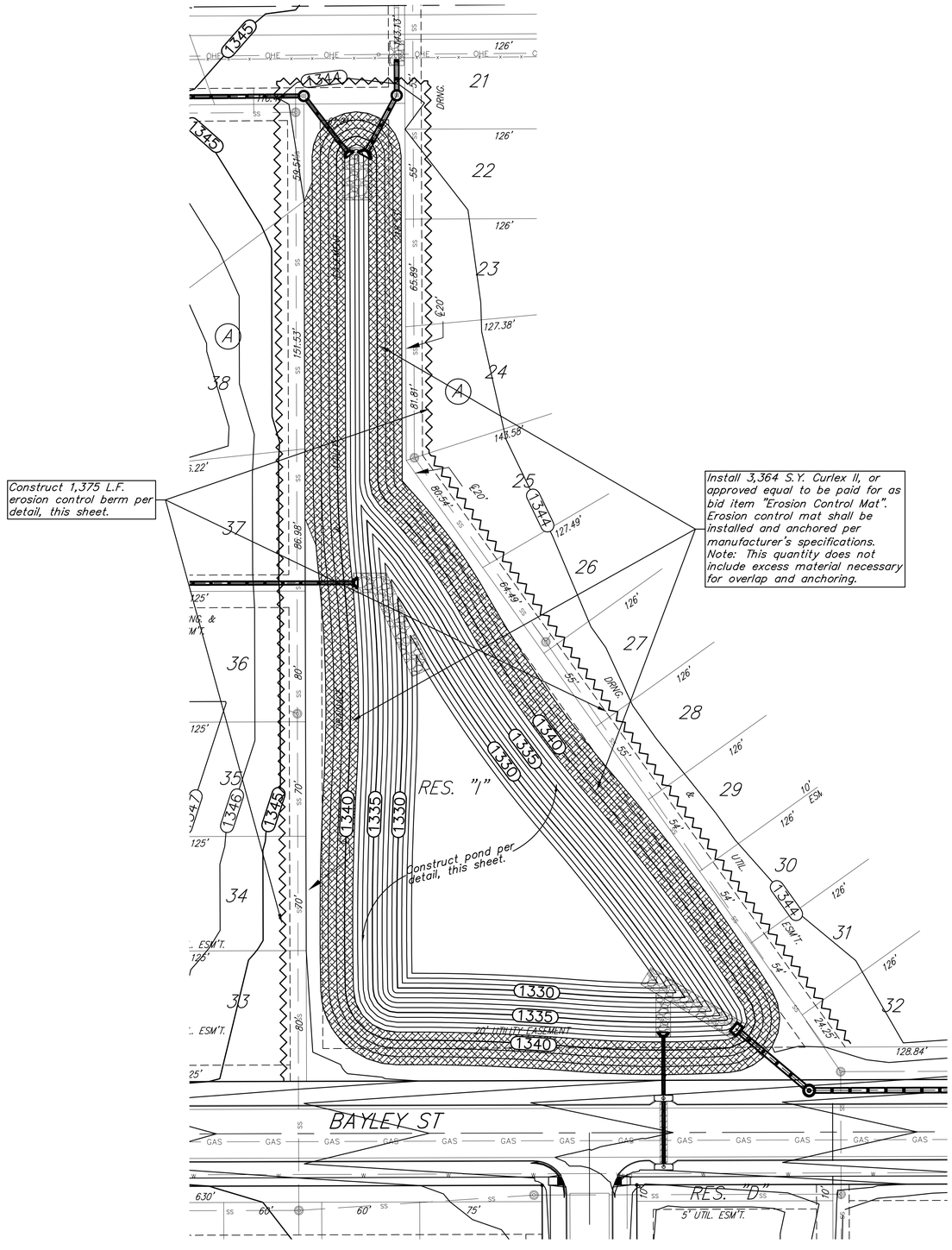
DATE: May 15, 2025

SHEET 32 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg



Typical Section Detail
(No Scale)



1350 Existing Grade

1350 Proposed Grade

40 0 40

Scale: 1"=40'

EROSION CONTROL PLAN LEGEND

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

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PRAIRIE GLEN ADDITION
Phase 1

POND PLAN "B"

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: NBW DRAWN: TMS

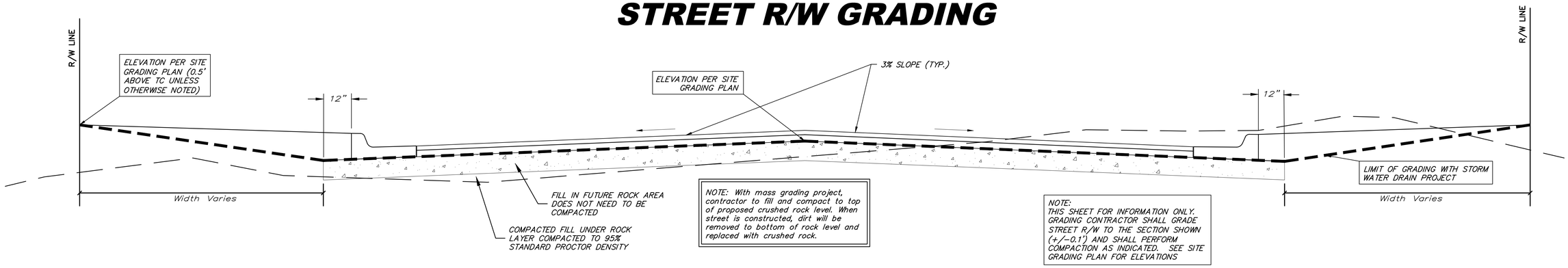
DATE: May 9, 2025

SHEET 33 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

TYPICAL MASS GRADING DETAIL

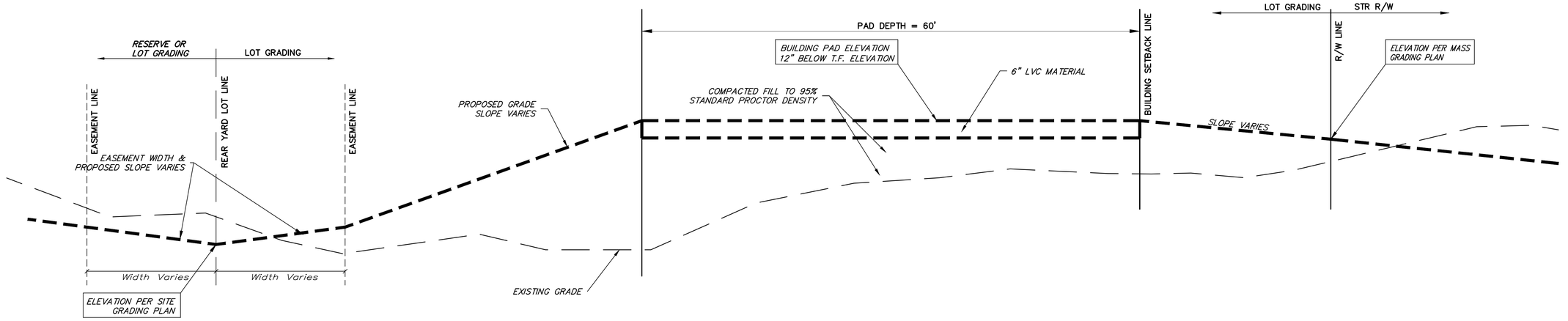
STREET R/W GRADING



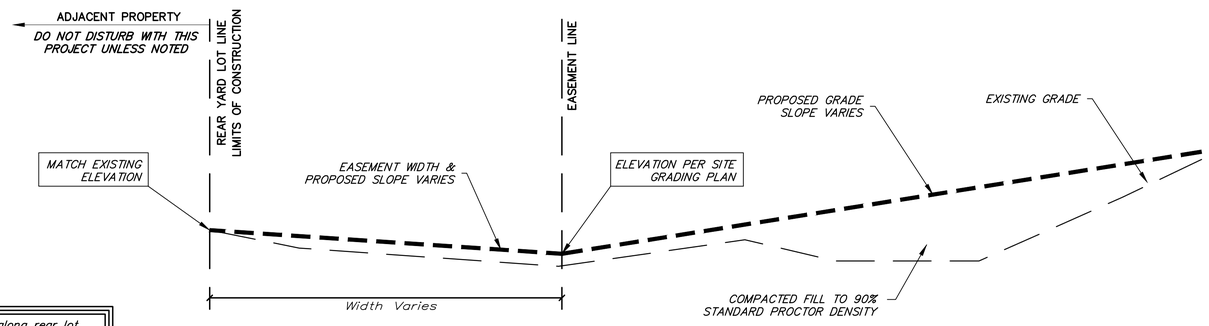
NOTE: With mass grading project, contractor to fill and compact to top of proposed crushed rock level. When street is constructed, dirt will be removed to bottom of rock level and replaced with crushed rock.

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

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PRAIRIE GLEN ADDITION
Phase 1

MASS GRADING DETAIL

STORM WATER SEWER IMPROVEMENTS

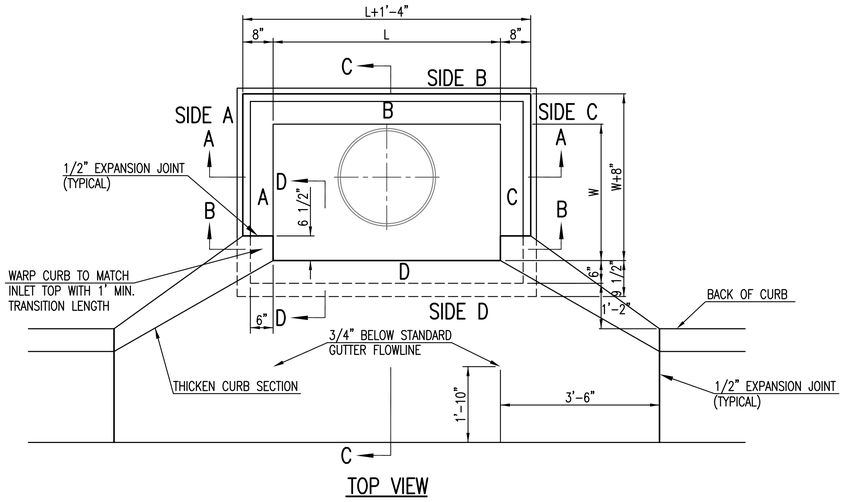
PROJECT NUMBER:
24-10-E950

DESIGN: DRAWN:

DATE: May 9, 2025

SHEET 34 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat)_24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg



TOP VIEW

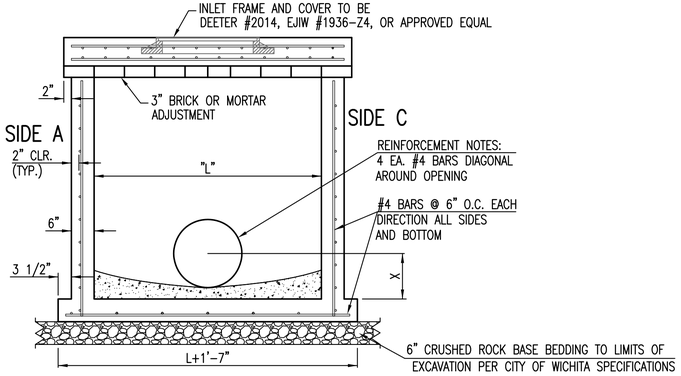
BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

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"

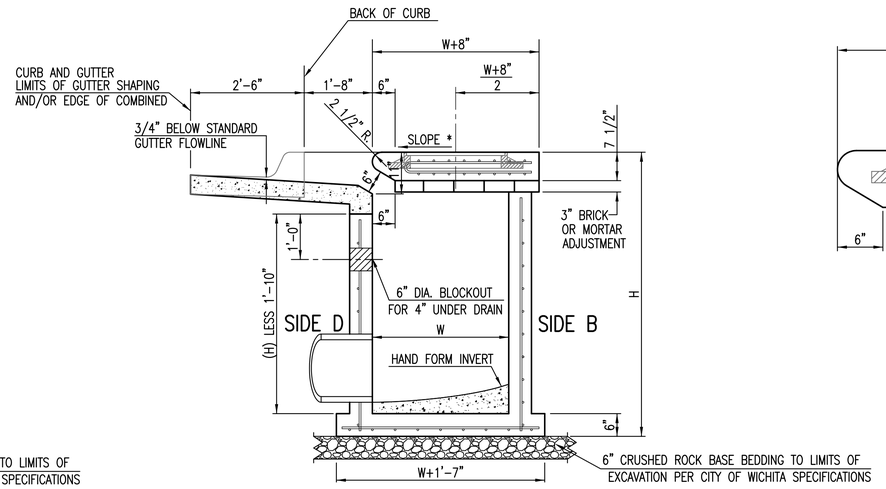
** FOR PIPES PERPENDICULAR TO INLET WALL

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.

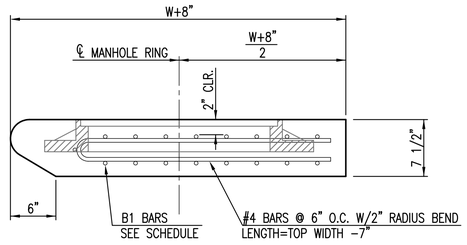


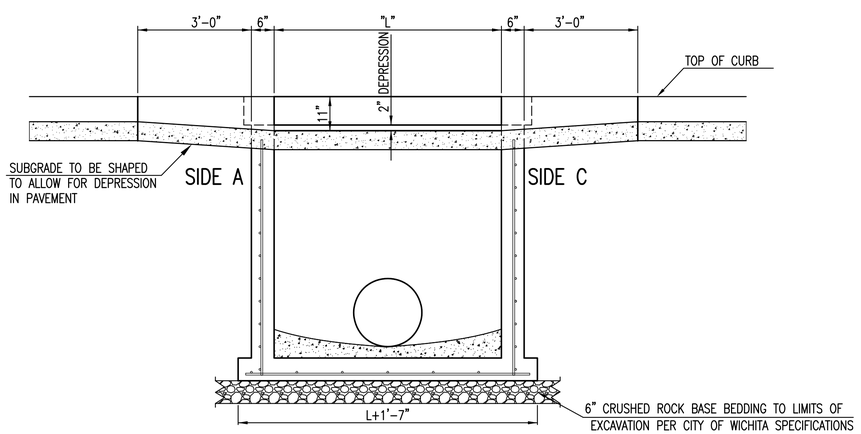
SECTION "A-A"



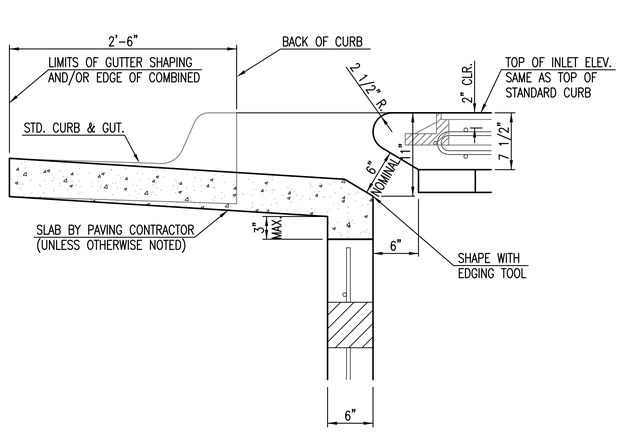
SECTION "C-C"

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





SECTION "B-B"



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

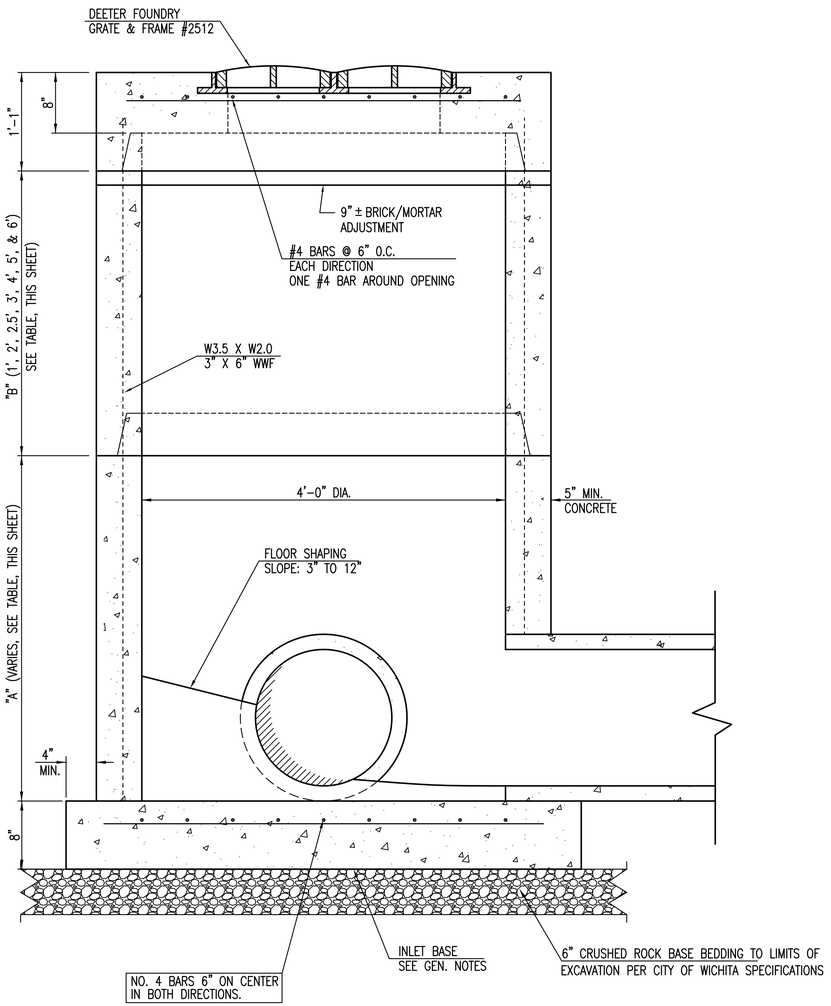
CITY ENGINEER
GARY JANZEN, P.E.

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
35 of 54

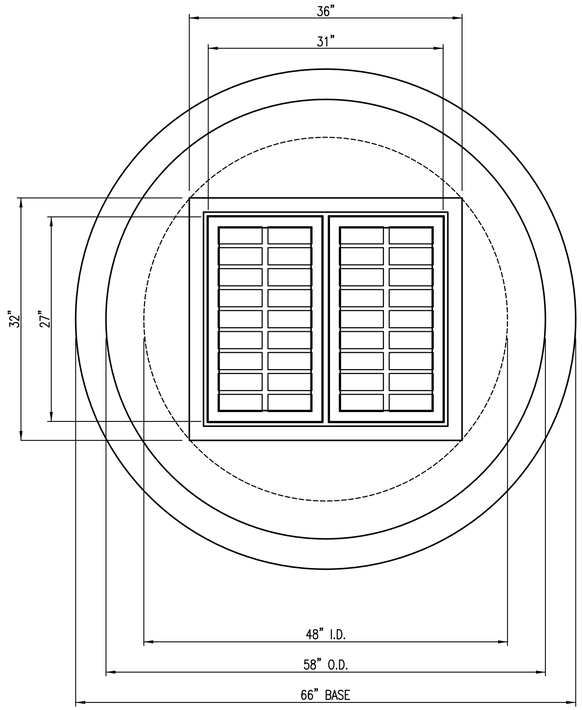
SW-103

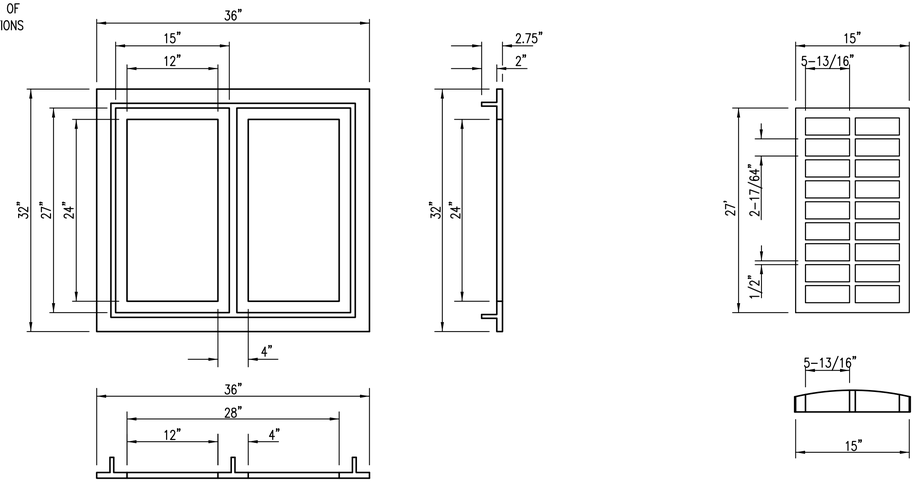


BACKYARD INLET

LINE #	STA.	TOP OF INLET	INLET FLOW	"A"	"B"
1	2+71.5	1335.60	1329.80	5.00'	-
1	6+56.0	1339.40	1334.50	4.10'	-
1	9+56.0	1341.00	1336.60	3.60'	-
1	12+37.5	1343.80	1339.50	3.50'	-
2	2+75.2	1338.90	1333.50	4.60'	-
2	4+55.2	1341.20	1337.70	2.70'	-
3	4+18.1	1342.90	1339.42	2.68'	-
3	6+08.1	1343.90	1340.40	2.70'	-
7	2+91.9	1335.60	1328.64	5.16'	1.00'
11	3+52.3	1347.90	1344.15	2.95'	-
12	0+43.1	1343.80	1338.70	4.30'	-
12	3+04.4	1346.00	1341.60	3.60'	-
12	4+87.5	1348.00	1342.34	3.86'	1.00'
12	6+94.1	1348.20	1343.47	2.93'	1.00'
12	8+69.4	1348.00	1344.10	3.10'	-
12	10+09.4	1349.70	1345.90	3.00'	-
13	0+38.3	1343.90	1336.83	4.27'	2.00'
15	3+48.1	1347.30	1343.00	3.50'	-
15	5+58.1	1349.10	1344.65	3.65'	-
15	6+98.1	1350.00	1346.50	2.70'	-

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

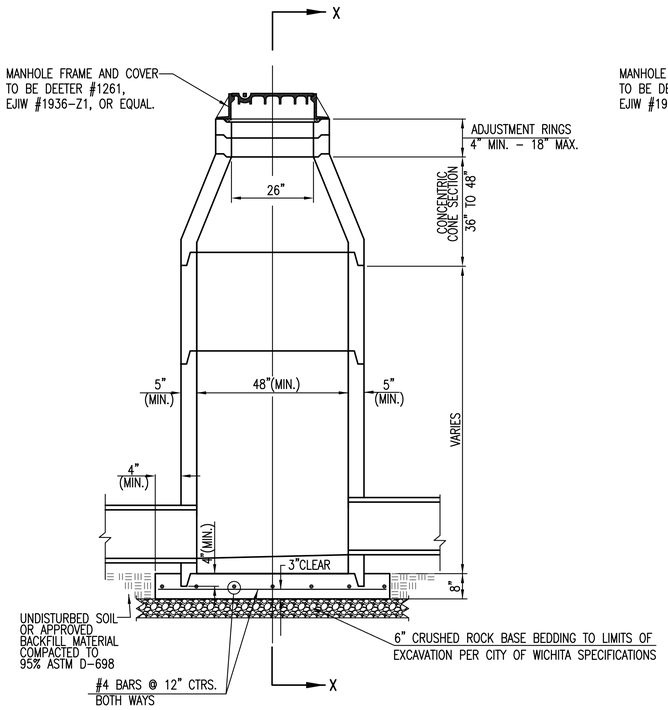
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

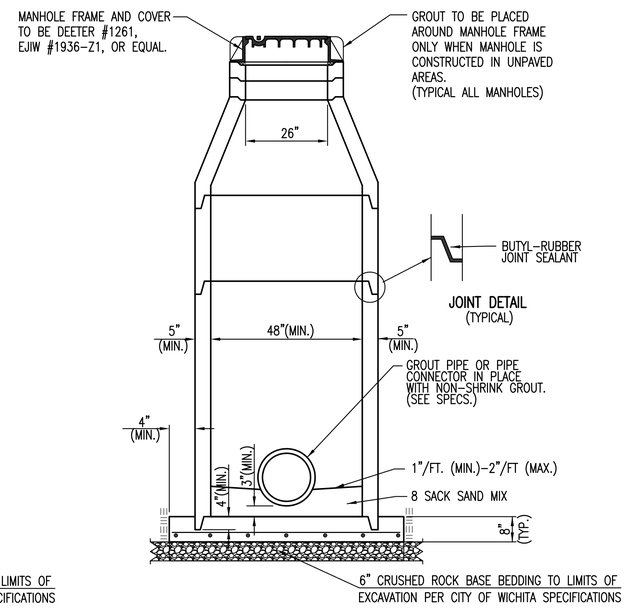
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
36 of 54

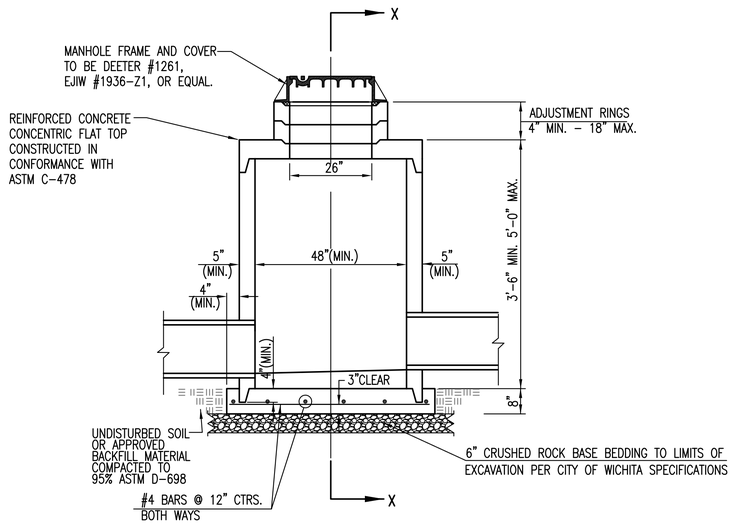
SW-203



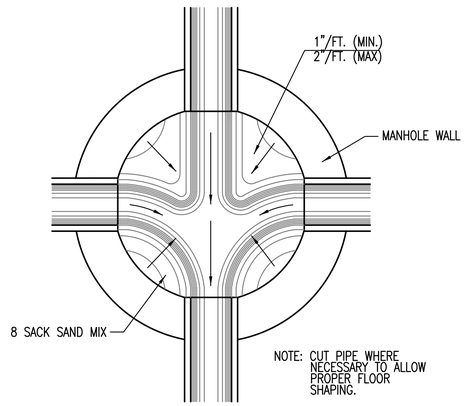
PRECAST
STANDARD MANHOLE
TYPE "A"



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

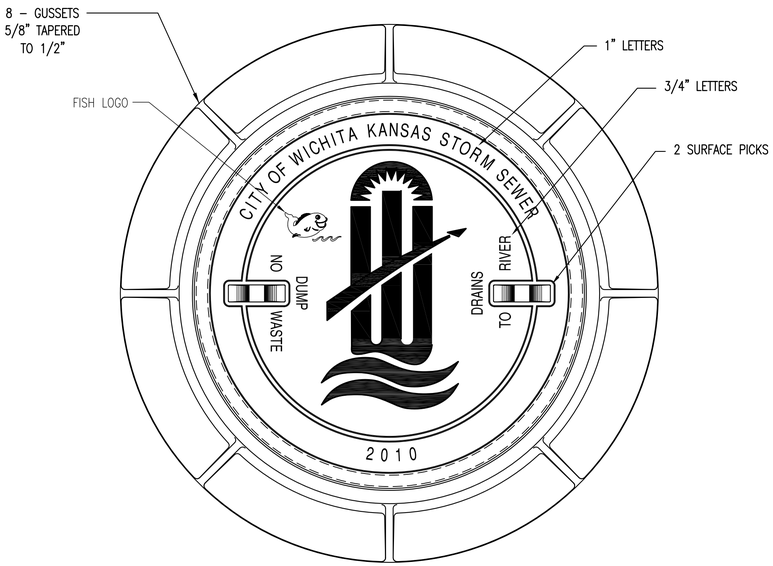
PRECAST CONCRETE MANHOLE (STORM SEWER)

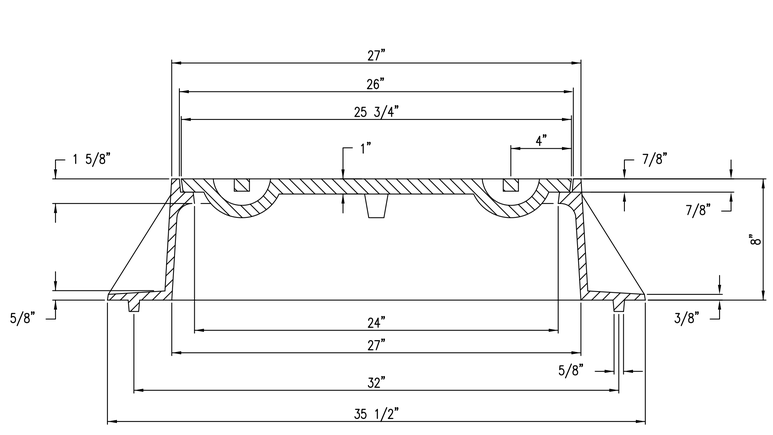
CITY ENGINEER
GARY JANZEN, P.E.

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
37 of 54

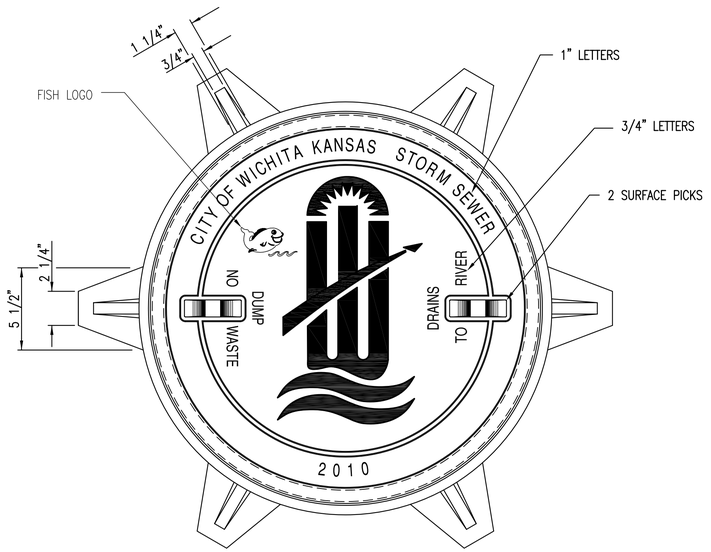


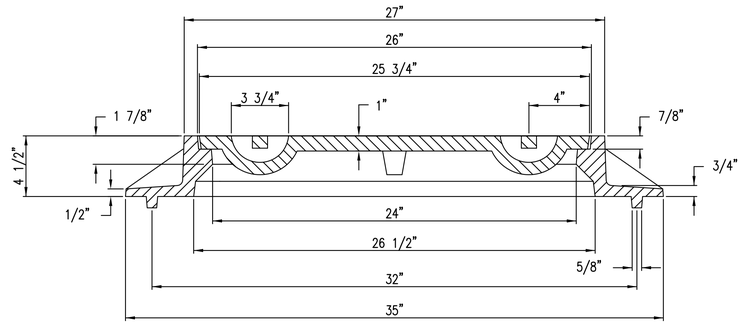


MANHOLE FRAME

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)

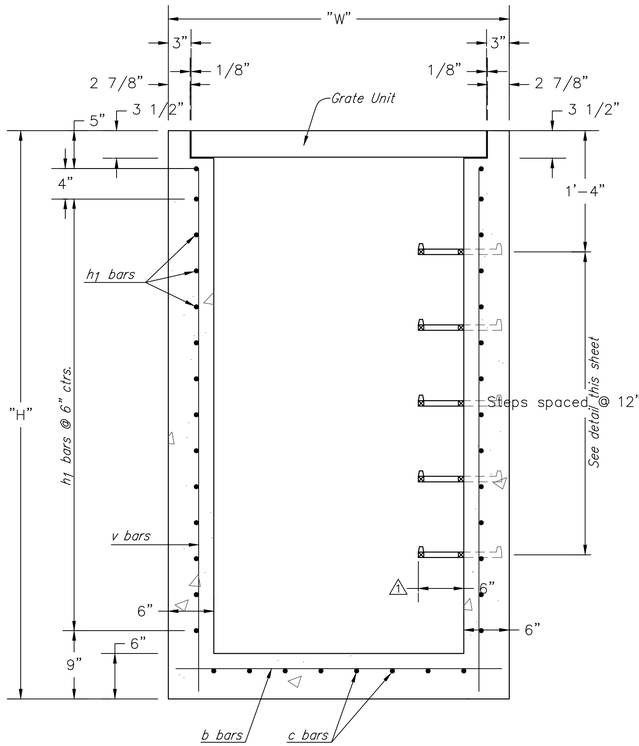
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		11/2010

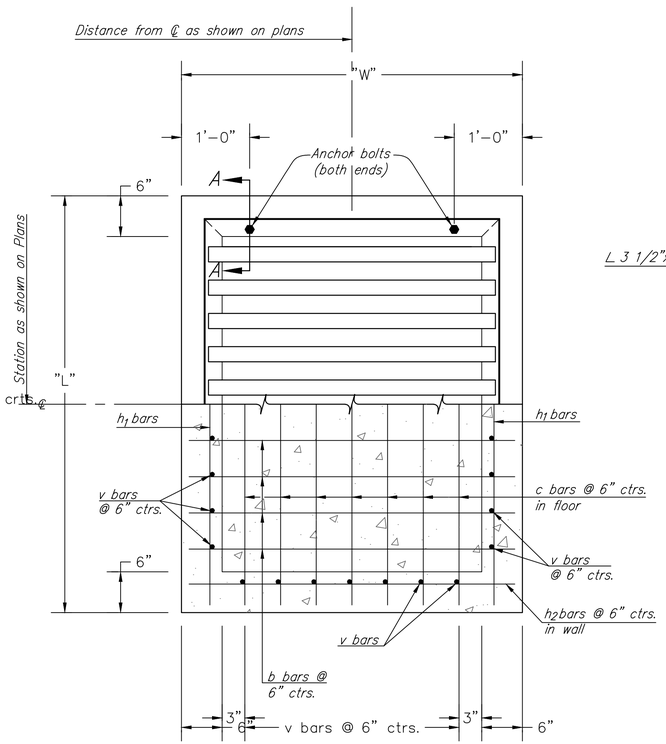
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
38 of 54

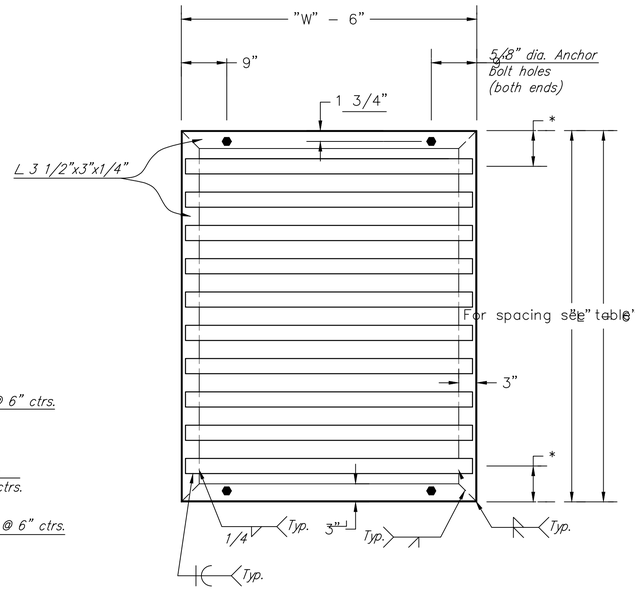
SW–303



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.

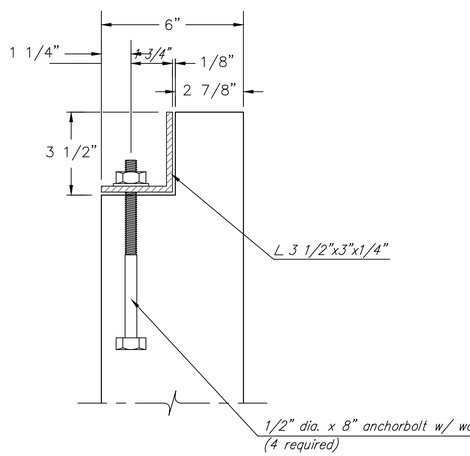
All bars are #4 @ 6" spacing and shall have a minimum clearance of 1 1/2" unless otherwise noted on the plans.

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

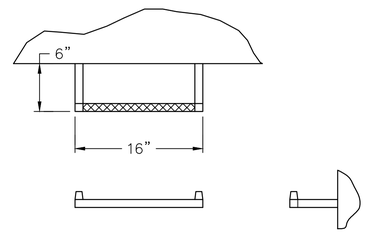
Steps shall be installed on all storm sewer inlets when specified in the plans or when "H" is equal or greater than six feet. Steps shall comply with KDOT Standard Specification.

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

PRAIRIE GLEN ADDITION
Phase 1

INLET MANHOLE DETAIL

STORM WATER SEWER IMPROVEMENTS

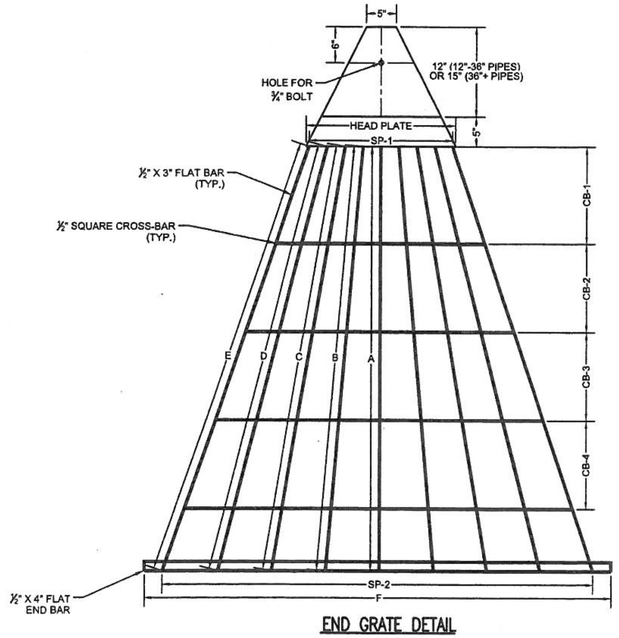
PROJECT NUMBER:
24-10-E950

DESIGN: DRAWN:

DATE: May 9, 2025

SHEET 39 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat)_24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg



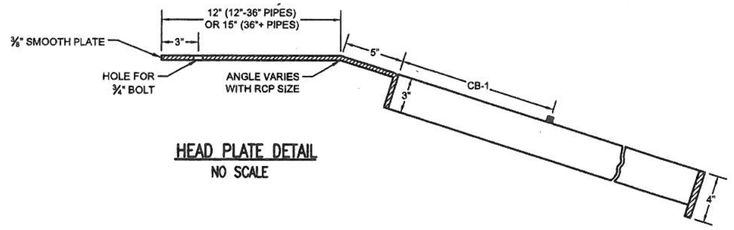
END GRATE DETAIL

NO SCALE

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

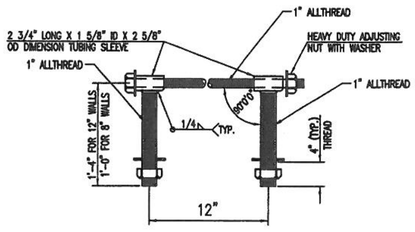
GRATE DIMENSIONS

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

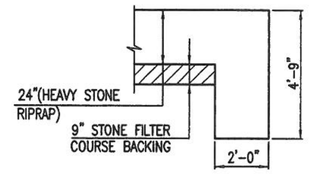


HEAVY DUTY (H.D.) COUPLER(≥36")

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.



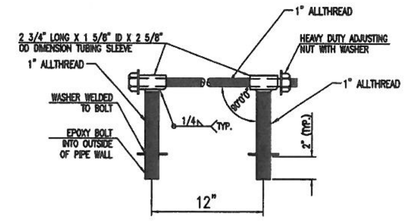
TYPICAL SECTION THRU TOEWALL

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

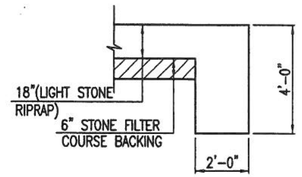


HEAVY DUTY (H.D.) COUPLER(≤30")

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.



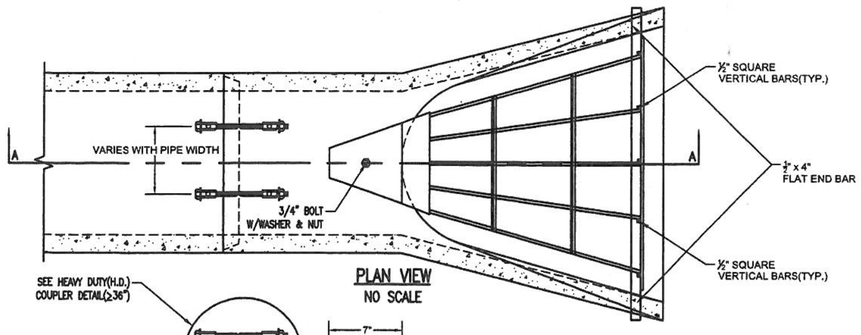
TYPICAL SECTION THRU TOEWALL

NO SCALE

NOTES

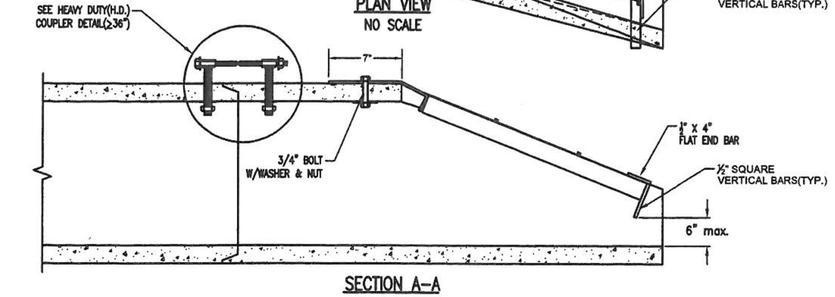
1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED, UNLESS INDICATED OTHERWISE.
2. TOEWALLS SHALL BE INSTALLED ALONG ALL UNPROTECTED EDGES OF STONE RIPRAP.
3. GROUTING OF THE SURFACE OF THE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

LIGHT STONE RIPRAP DETAILS

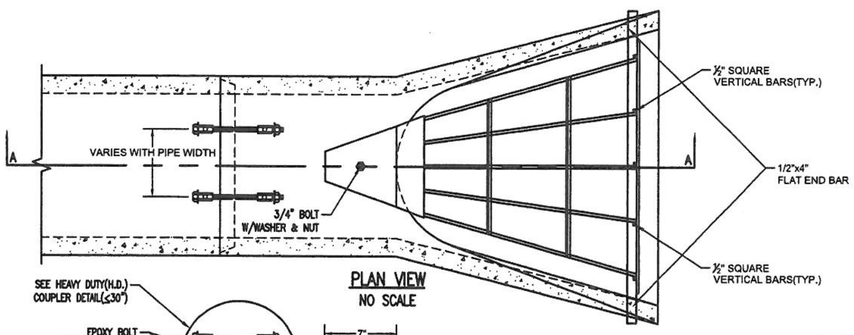


PLAN VIEW

NO SCALE

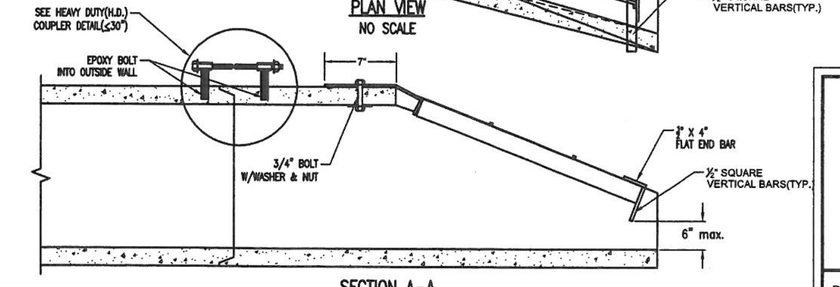


SECTION A-A



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

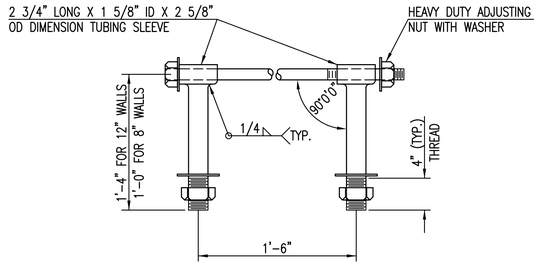
PROJECT NUMBER	OCA NUMBER	DATE
		01/2015

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

DESIGN	DRAWN

SHEET 40 of 54

SW-408

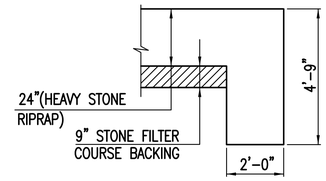


HEAVY DUTY (H.D.) COUPLER

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.



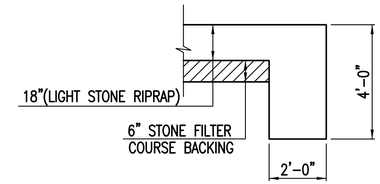
TYPICAL SECTION THRU TOEWALL

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)

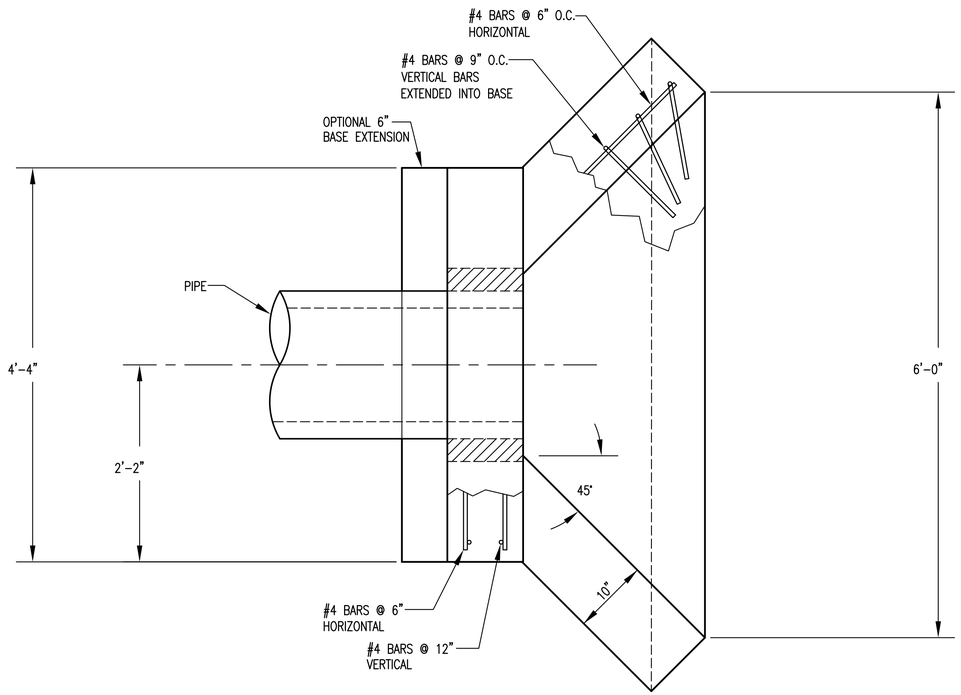
CITY ENGINEER

GARY JANZEN, P.E.

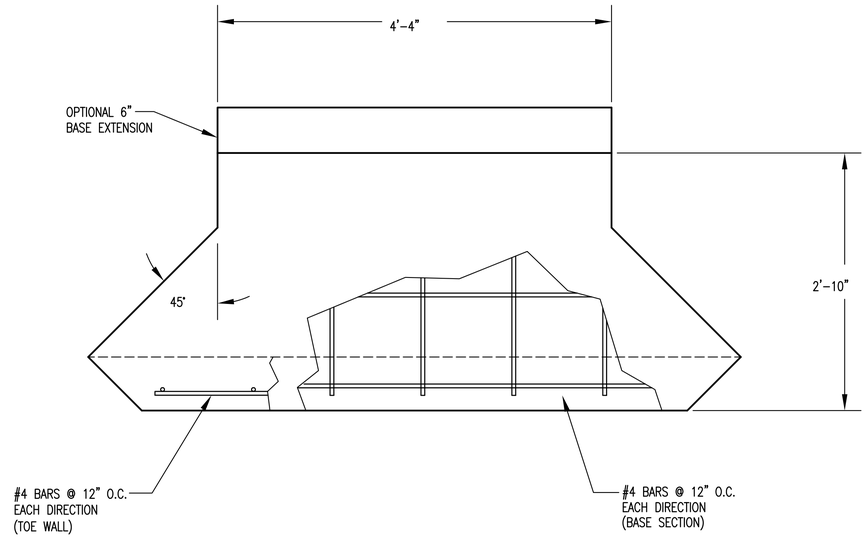
PROJECT NUMBER	OCA NUMBER	DATE
		11/2010

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

SHEET

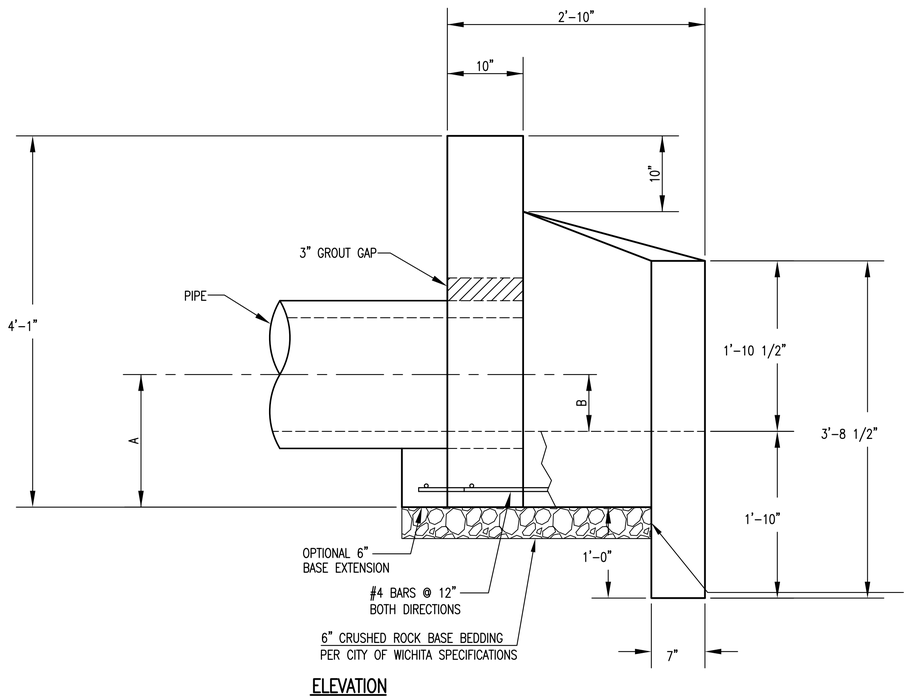


PLAN VIEW

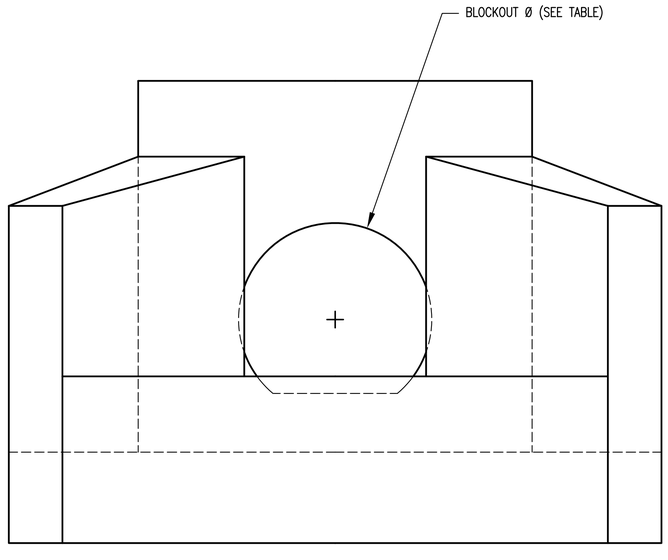


PLAN VIEW
BASE

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
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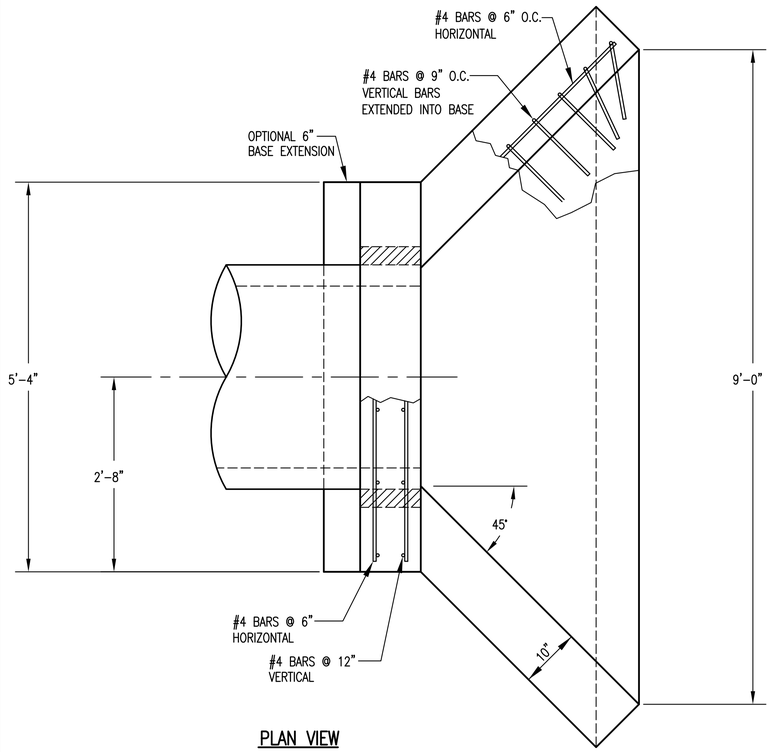
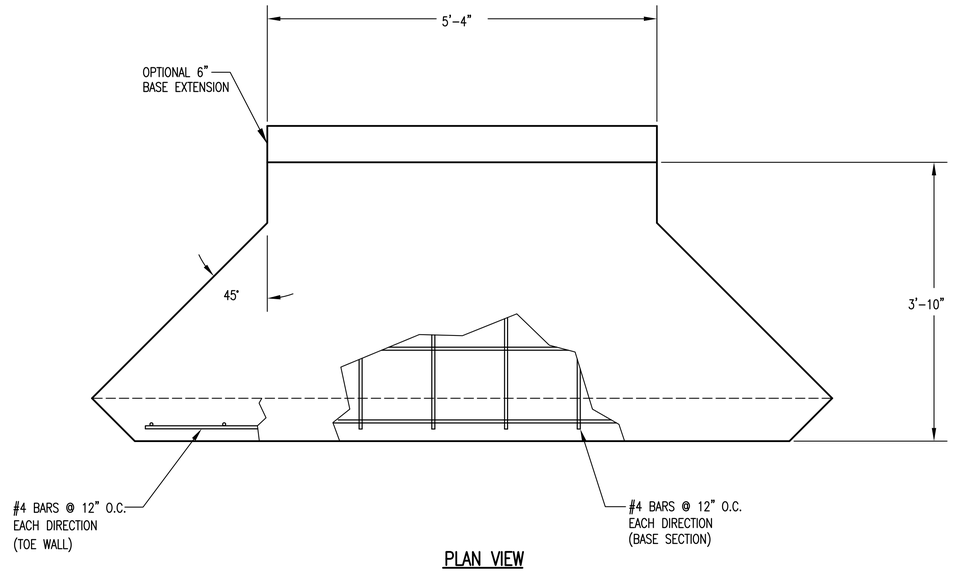
SW-402

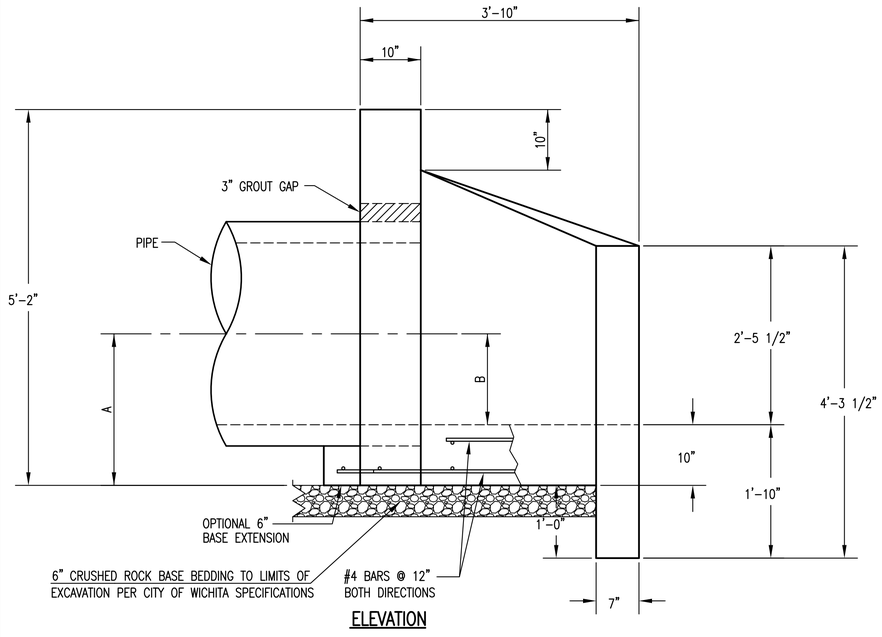


PLAN VIEW

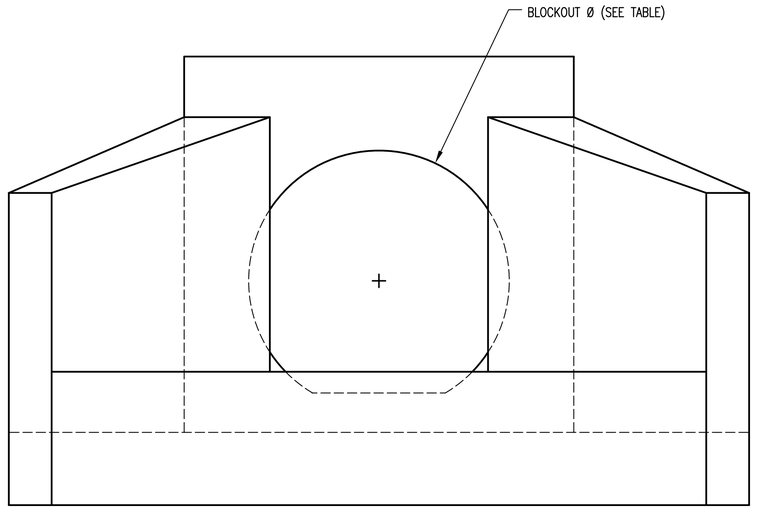


PLAN VIEW
BASE

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

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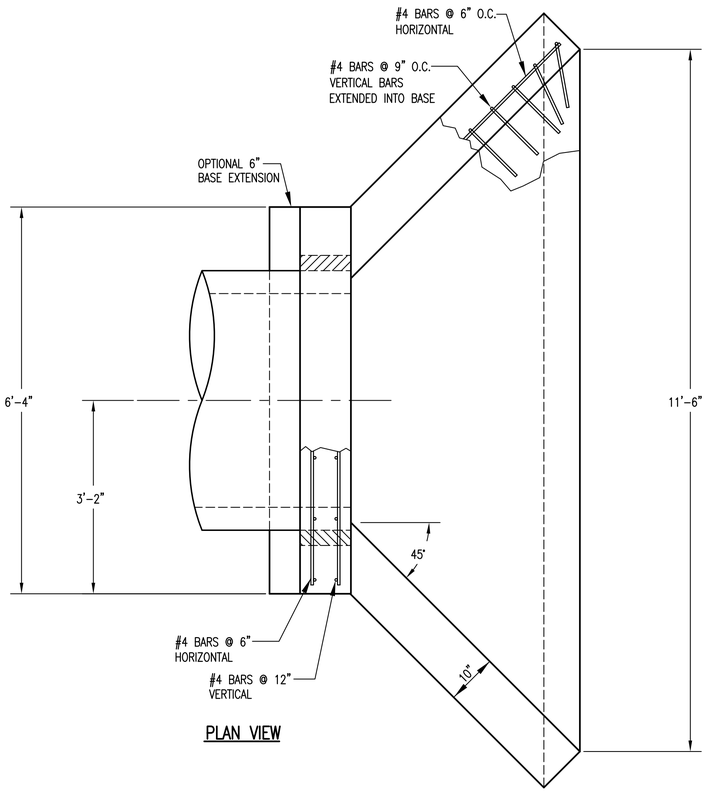
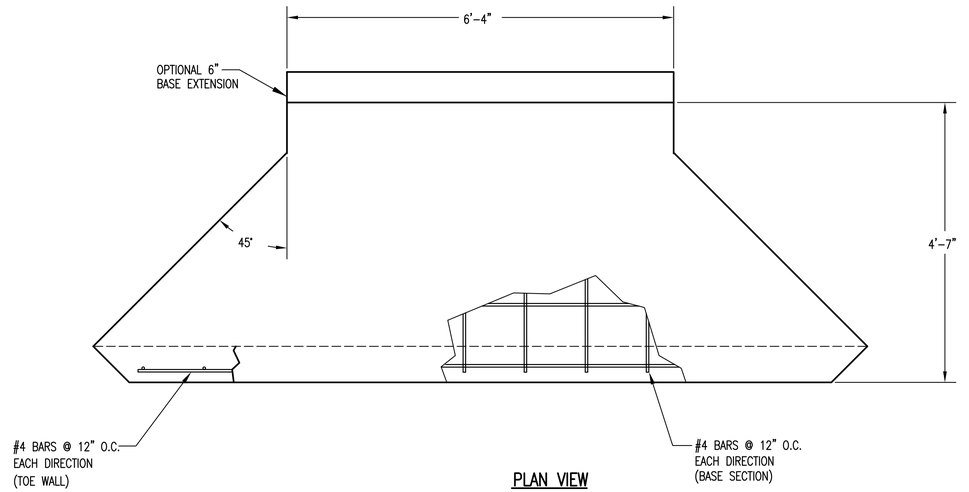
SW-403

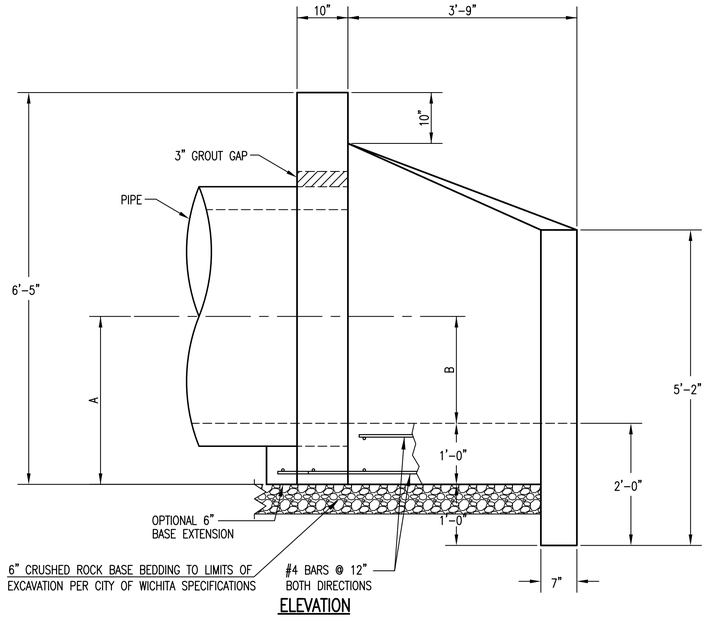


PLAN VIEW



PLAN VIEW
BASE

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



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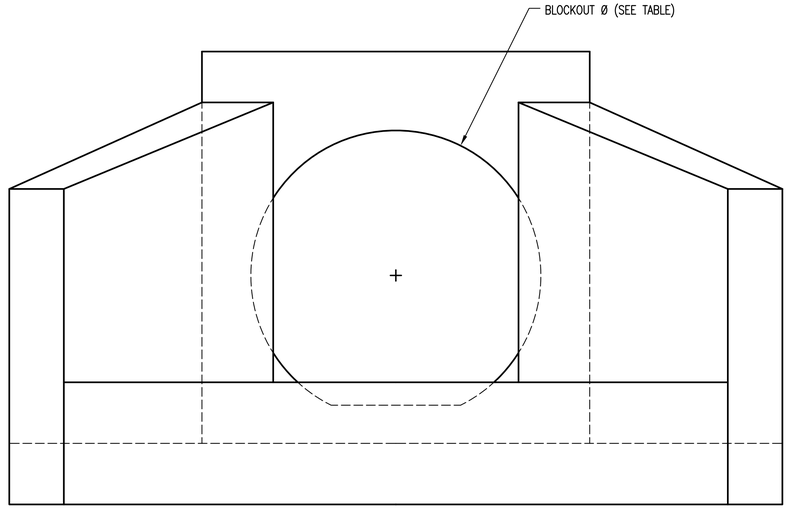

FRONT VIEW

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

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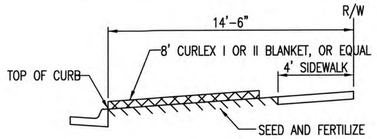
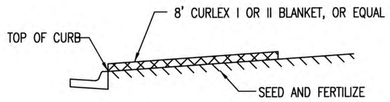
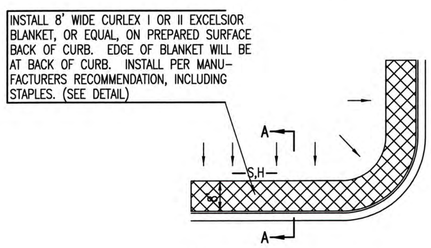
SW-404



SECTION B-B



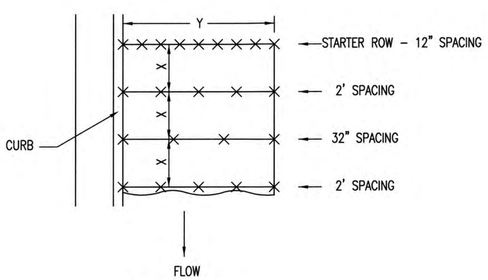
SECTION A-A



GENERAL NOTES

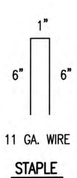
1. EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
2. EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
3. AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE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

BACK OF CURB PROTECTION DETAIL



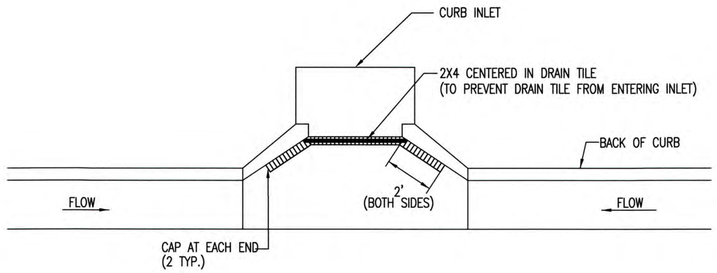
STAPLE PATTERN

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



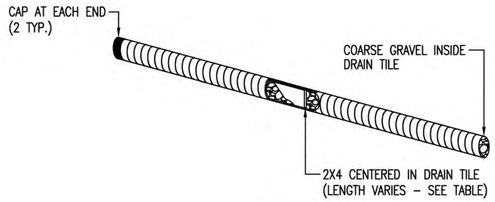
STAPLE

DETAILS FOR APPROVED EROSION CONTROL MAT

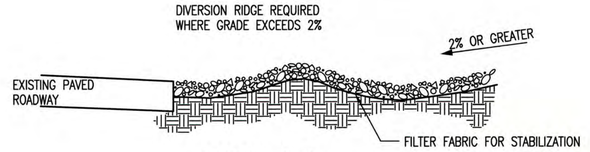


NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

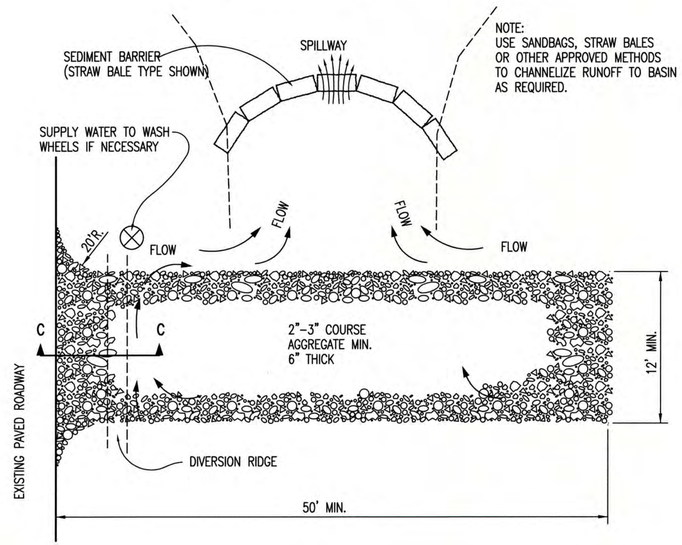
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



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 16204
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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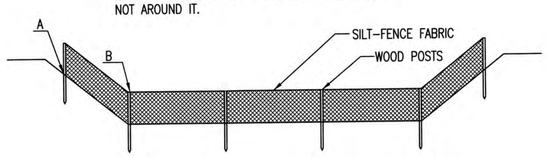
NOTE: POINT A MUST BE HIGHER THAN POINT B SO THAT WATER FLOWS OVER THE SILT FENCE FABRIC AND NOT AROUND IT.



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.

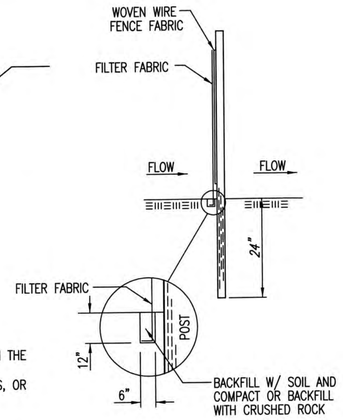
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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.

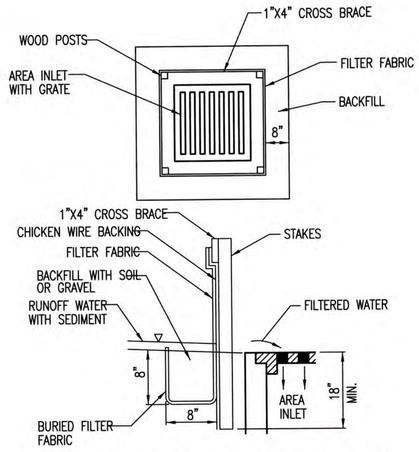
INSPECTION AND MAINTENANCE:

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.

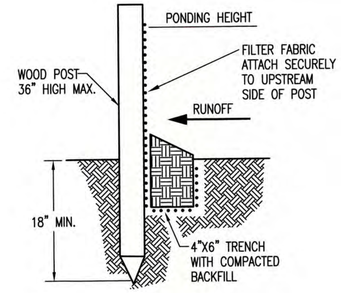
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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

GARY L. JANZEN LICENSED 16294 PROFESSIONAL ENGINEER KANSAS
05/2/13

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

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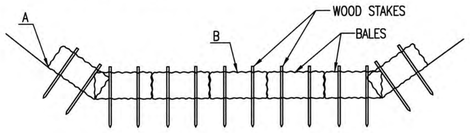
SW-502

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".

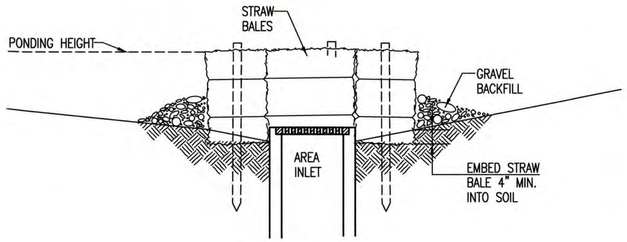
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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.

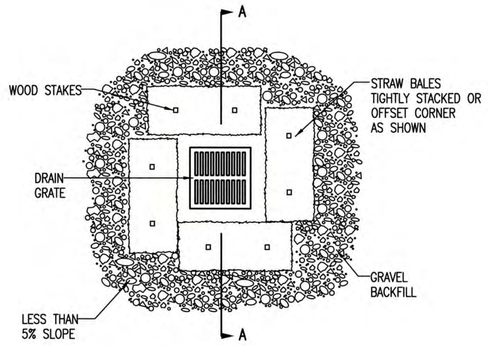
INSPECTION AND MAINTENANCE:

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.

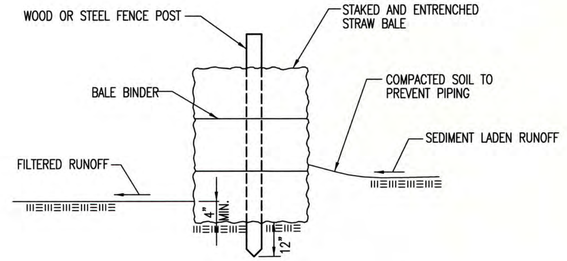
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

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

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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.

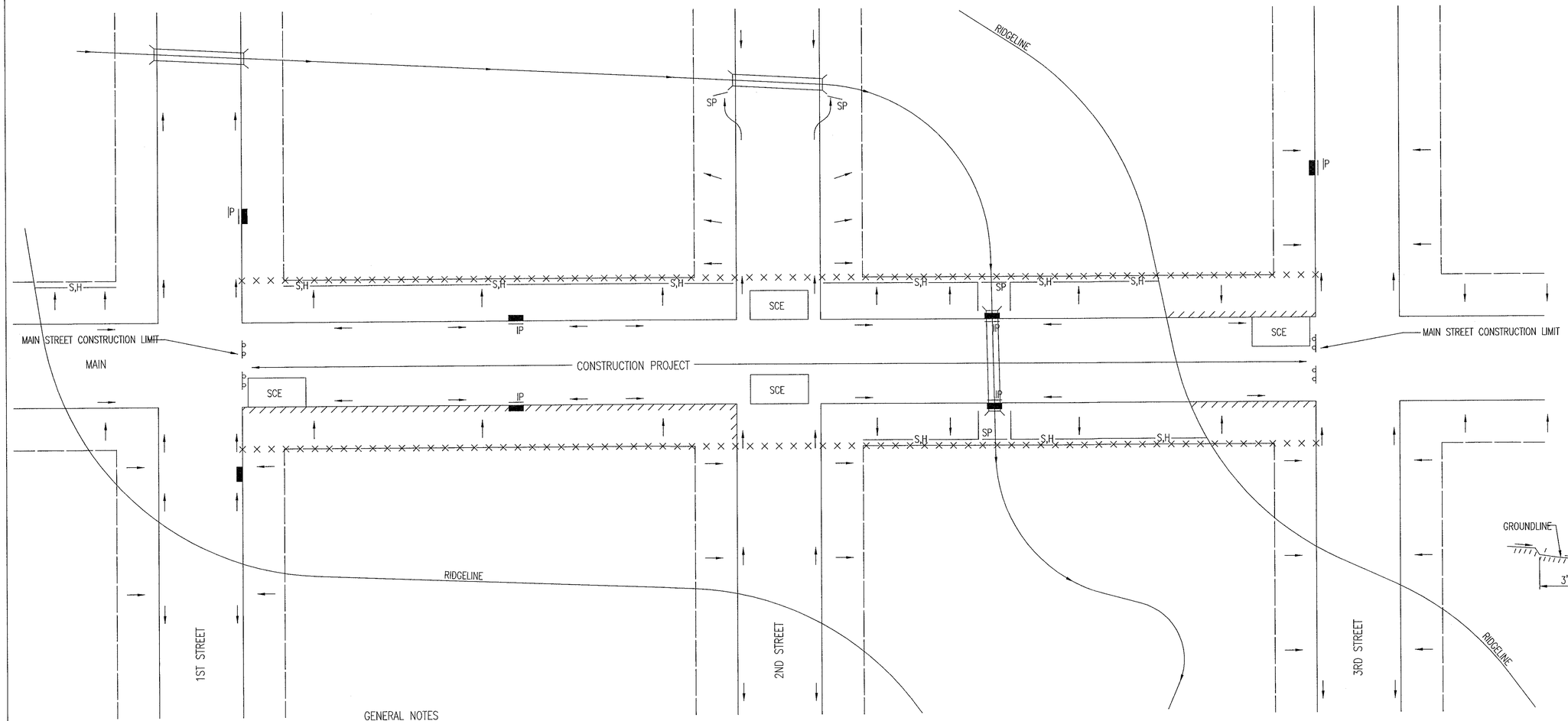
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.

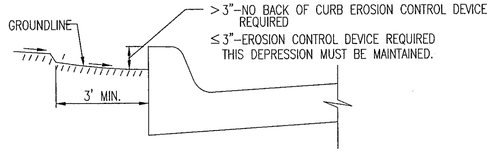
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.

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

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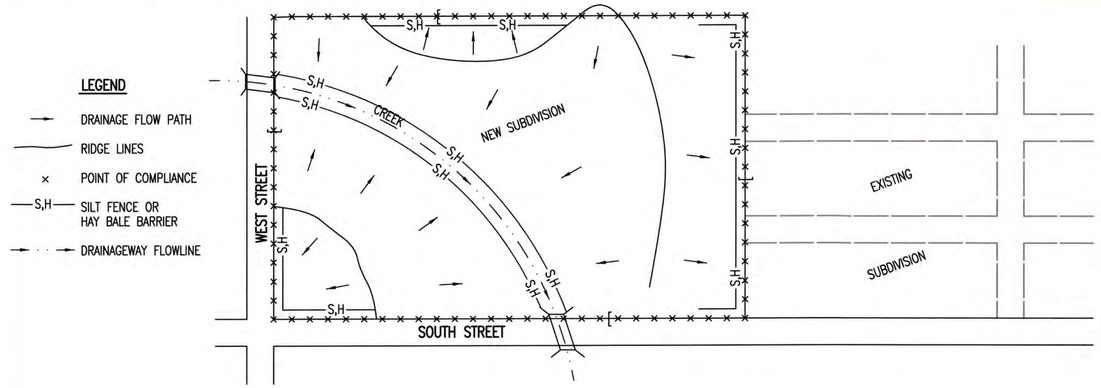
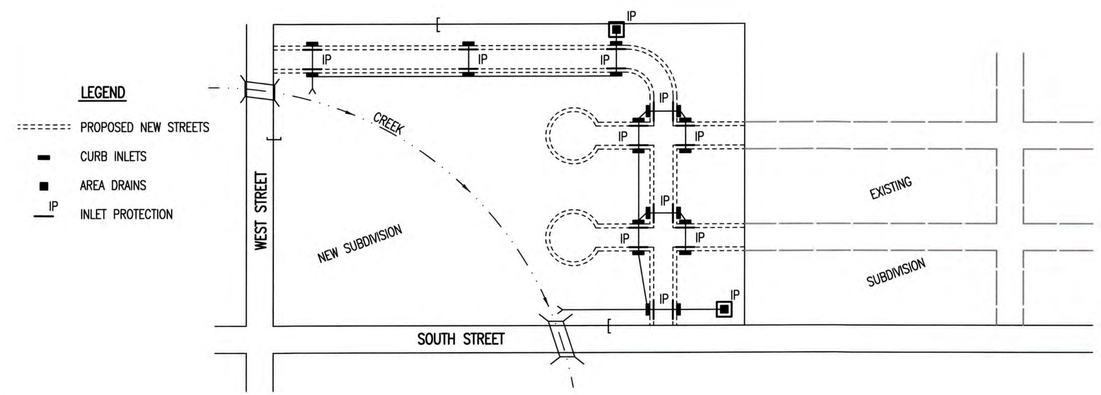
PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



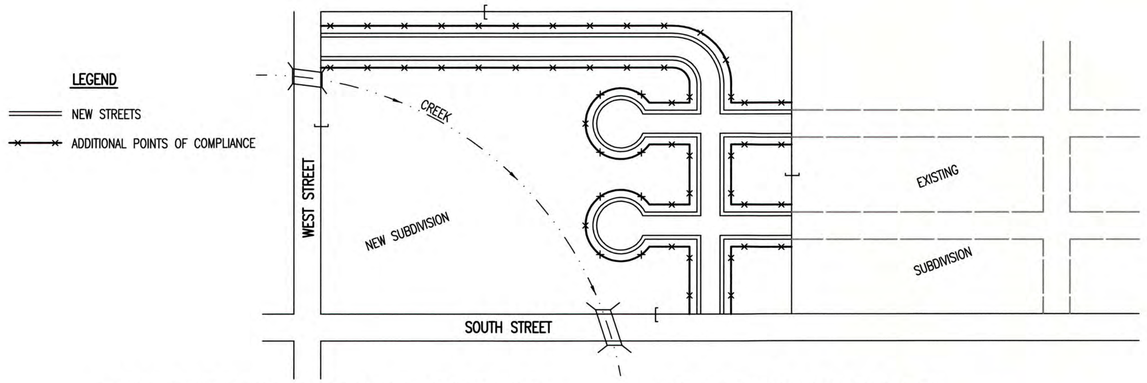
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
2. 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

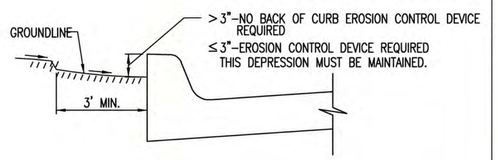


1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
2. CURB OPENING INLET PROTECTION:
   A. SUMP AREAS – INLET PROTECTION 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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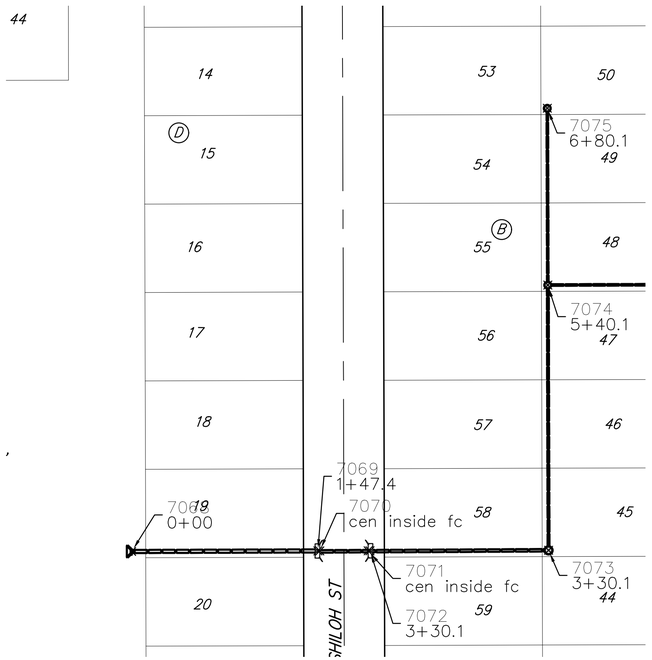
SW–505



IRONS

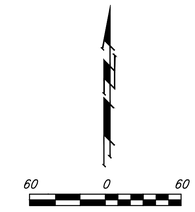
Point Table			
Point #	Northing	Easting	Raw Description
1	364901.37	17584510.99	iron
2	364985.37	17584510.75	iron
3	364985.20	17584450.75	iron
4	364901.20	17584450.99	iron
5	364990.01	17584427.45	iron
6	364927.11	17584368.81	iron
7	365001.79	17584370.43	iron
8	364937.69	17584335.25	iron
9	364934.12	17583086.03	iron
10	364998.08	17583086.05	iron
11	365065.92	17583017.65	iron
12	365065.74	17582953.65	iron
13	365414.14	17582952.65	iron
14	365414.32	17583016.65	iron
15	365526.00	17582904.43	iron
16	365462.00	17582904.56	iron
17	365525.83	17582818.38	iron
18	365001.60	17584304.45	iron
19	365001.43	17584246.45	iron
20	365100.37	17584214.57	iron
21	365134.09	17584261.76	iron
22	365395.05	17584075.28	iron
23	365361.32	17584028.09	iron
24	365493.65	17583985.41	iron
25	365493.86	17584043.41	iron
26	365719.08	17584042.60	iron
27	365718.88	17583984.60	iron
28	364936.73	17584001.02	iron
29	364936.57	17583943.02	iron
30	364826.41	17583943.34	iron
31	364826.57	17584001.34	iron
32	364762.09	17583980.45	iron
33	364797.98	17583934.78	iron
34	364697.73	17584001.71	iron
35	364697.57	17583943.71	iron
36	364559.73	17584002.10	iron
37	364559.57	17583944.10	iron
38	364508.42	17583893.25	iron

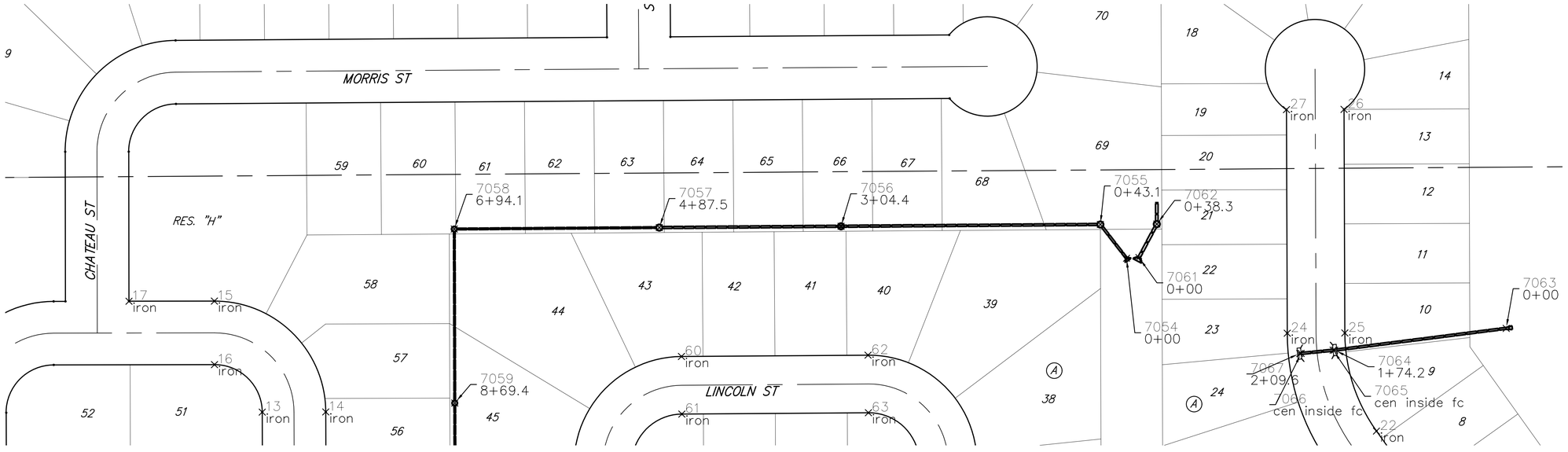
Point Table			
Point #	Northing	Easting	Raw Description
39	364450.42	17583893.41	iron
40	364448.94	17583375.41	iron
41	364506.94	17583375.25	iron
42	364557.80	17583324.10	iron
43	364557.63	17583266.10	iron
44	364695.63	17583265.71	iron
45	364695.80	17583323.71	iron
46	364746.94	17583374.56	iron
47	364804.94	17583374.40	iron
48	364806.42	17583892.39	iron
49	364748.42	17583892.56	iron
50	364793.82	17583326.74	iron
51	364775.67	17583300.38	iron
52	364836.96	17583281.30	iron
53	364837.05	17583313.30	iron
54	364934.77	17583313.02	iron
55	364934.67	17583281.02	iron
56	364998.64	17583267.84	iron
57	364998.80	17583325.84	iron
58	365361.04	17583324.81	iron
59	365360.89	17583266.81	iron
60	365470.20	17583375.04	iron
61	365412.20	17583375.45	iron
62	365471.53	17583563.03	iron
63	365413.53	17583563.44	iron
64	365362.67	17583614.80	iron
65	365362.82	17583672.80	iron
66	364999.80	17583673.84	iron
67	364999.63	17583615.84	iron
68	364945.51	17583032.00	iron
69	364980.15	17582985.48	iron
70	364967.00	17582975.69	iron
71	364932.36	17583022.21	iron
72	364901.76	17583012.12	iron
73	364901.59	17582954.12	iron
74	364540.02	17582955.15	iron
75	364540.19	17583013.15	iron

STORM WATER SEWER

Point Table			
Point #	Northing	Easting	Raw Description
7000	364396.62	17584372.73	0+00
7001	364353.14	17584323.54	0+65.7
7002	364351.84	17584117.68	2+71.5
7003	364349.42	17583733.19	6+56.0
7004	364347.53	17583433.19	9+56.0
7005	364345.63	17583151.71	12+37.5
7006	364627.06	17584116.91	2+75.2
7007	364807.06	17584116.39	4+55.2
7008	364630.20	17583990.57	1+26.4
7009	364630.20	17583989.07	cen inside fc
7010	364630.10	17583956.73	cen inside fc
7011	364630.10	17583955.23	1+61.7
7012	364632.87	17583698.89	4+18.1
7013	364632.32	17583508.89	6+08.1
7014	364745.16	17583977.47	1+15.7
7015	364744.42	17583976.16	cen inside fc
7016	364759.69	17583868.53	2+25.6
7017	364761.19	17583868.52	cen inside fc
7018	364793.52	17583868.43	cen inside fc
7019	364795.02	17583868.43	2+60.9
7020	364384.20	17584540.21	cen inside fc
7021	364384.19	17584538.71	0+00
7022	364406.73	17584479.35	0+63.5
7023	364624.01	17584539.57	cen inside fc
7024	364624.01	17584538.07	0+00
7025	364623.85	17584483.53	0+54.5
7026	365283.87	17584501.23	0+00
7027	364995.55	17584455.72	2+91.7
7028	364973.89	17584459.27	3+13.8
7029	364972.39	17584459.28	cen inside fc
7030	364914.06	17584459.45	cen inside fc
7031	364912.56	17584459.45	3+75.2
7032	364995.11	17584301.27	1+54.4
7033	364994.55	17584106.55	3+49.2
7034	365032.02	17584062.07	4+07.3
7035	365017.93	17584292.28	0+24.5
7036	365017.81	17584290.79	cen inside fc
7037	365015.38	17584258.52	cen inside fc
7038	365015.26	17584257.02	0+59.9
7039	365027.35	17584017.26	0+00

Point Table			
Point #	Northing	Easting	Raw Description
7040	364989.45	17584017.37	0+37.9
7041	364987.95	17584017.38	cen inside fc
7042	364949.61	17584017.49	cen inside fc
7043	364948.11	17584017.49	0+79.2
7044	365305.24	17583827.31	0+00
7045	365304.76	17583661.64	1+65.7
7046	365304.76	17583660.14	cen inside fc
7047	365304.67	17583627.80	cen inside fc
7048	365304.66	17583626.30	2+01.0
7049	365304.23	17583474.97	3+52.3
7050	365303.77	17583313.64	5+13.7
7051	365303.76	17583312.14	cen inside fc
7052	365303.67	17583279.80	cen inside fc
7053	365303.67	17583278.30	5+49.0
7054	365569.12	17583823.48	0+00
7055	365603.18	17583797.12	0+43.1
7056	365601.34	17583535.83	3+04.4
7057	365600.05	17583352.72	4+87.5
7058	365598.59	17583146.13	6+94.1
7059	365423.29	17583146.63	8+69.4
7060	365283.29	17583147.03	10+09.4
7061	365569.81	17583835.98	0+00
7062	365603.58	17583854.02	0+38.3
7063	365498.50	17584206.00	0+00
7064	365476.62	17584033.15	1+74.2
7065	365476.47	17584031.65	cen inside fc
7066	365473.30	17583999.45	cen inside fc
7067	365473.15	17583997.96	2+09.6
7068	364963.01	17582495.88	0+00
7069	364963.43	17582643.27	1+47.4
7070	364963.43	17582644.77	cen inside fc
7071	364963.54	17582683.11	cen inside fc
7072	364963.55	17582684.61	3+30.1
7073	364963.95	17582825.94	3+30.1
7074	365173.95	17582825.34	5+40.1
7075	365313.95	17582824.94	6+80.1
7076	365174.35	17582964.67	1+39.3
7077	365174.35	17582966.17	cen inside fc
7078	365174.46	17583004.50	cen inside fc
7079	365174.47	17583006.01	1+80.7





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

PRAIRIE GLEN ADDITION
Phase 1

COORDINATE SHEET

STORM WATER SEWER IMPROVEMENTS

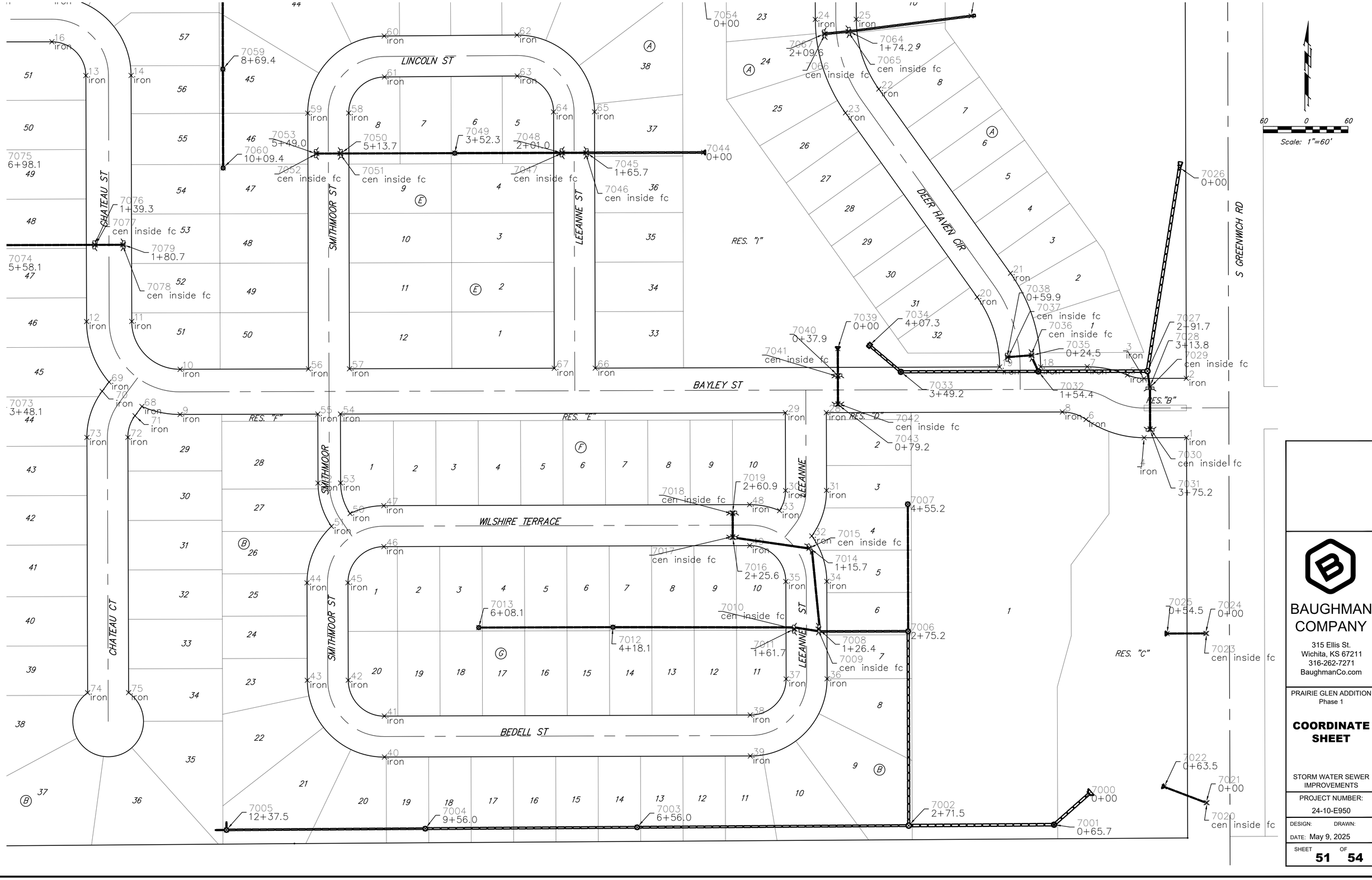
PROJECT NUMBER:
24-10-E950

DESIGN: DRAWN:

DATE: May 19, 2025

SHEET 50 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat)_24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg



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PRAIRIE GLEN ADDITION
Phase 1

COORDINATE SHEET

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER: 24-10-E950

DESIGN: DRAWN:

DATE: May 9, 2025

SHEET 51 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat) 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

MASS GRADING

Point Table			
Point #	Northing	Easting	Elevation
1000	365022.02	17584450.64	1338.50
1001	365021.60	17584303.52	1341.50
1002	365070.87	17584293.51	1342.10
1003	365110.13	17584415.94	1339.00
1004	365180.45	17584383.50	1339.00
1005	365116.24	17584273.31	1342.70
1006	365160.04	17584243.22	1343.20
1007	365233.30	17584345.73	1339.50
1008	365278.05	17584313.76	1340.00
1009	365204.79	17584211.24	1343.40
1010	365249.54	17584179.26	1343.70
1011	365322.80	17584281.78	1340.00
1012	365367.55	17584249.80	1340.50
1013	365294.29	17584147.29	1343.80
1014	365412.29	17584217.82	1340.50
1015	365339.04	17584115.31	1343.50
1016	365387.85	17584080.42	1343.20
1017	365461.11	17584182.94	1341.00
1018	365489.29	17584169.43	1341.00
1019	365474.91	17584044.53	1342.60
1020	365543.83	17584043.23	1343.00
1021	365544.28	17584169.23	1341.50
1022	365604.28	17584169.02	1342.00
1023	365603.83	17584043.02	1343.30
1024	365663.83	17584042.80	1343.60
1025	365664.28	17584168.80	1342.00
1026	365719.53	17584168.60	1342.50
1027	365719.08	17584042.60	1344.10
1028	365769.15	17584062.56	1344.70
1029	365789.50	17584168.35	1342.50
1030	365930.80	17584167.85	1340.60
1031	365930.59	17584138.05	1341.40
1032	365800.11	17584042.92	1345.00
1033	365809.19	17584006.27	1345.30
1034	365929.54	17583988.80	1342.00
1035	365928.62	17583857.85	1343.40
1036	365870.44	17583858.06	1343.40
1037	365788.73	17583972.74	1344.90
1038	365745.17	17583965.62	1344.50
1039	365744.79	17583858.51	1343.50
1040	365692.79	17583858.70	1343.90
1041	365693.24	17583984.70	1343.80
1042	365638.24	17583984.89	1343.50
1043	365637.79	17583858.89	1344.40
1044	365582.79	17583859.09	1344.00
1045	365583.24	17583985.09	1343.20
1046	365528.24	17583985.29	1342.90
1047	365527.79	17583859.29	1343.50

Point Table			
Point #	Northing	Easting	Elevation
1048	365461.90	17583859.52	1343.50
1049	365473.54	17583986.37	1342.60
1050	365424.17	17583996.47	1342.80
1051	365380.09	17583859.82	1343.50
1052	365314.56	17583906.65	1343.50
1053	365378.90	17584016.71	1343.00
1054	365335.35	17584046.65	1343.30
1055	365262.09	17583944.14	1343.50
1056	365217.34	17583976.12	1343.50
1057	365290.60	17584078.63	1343.60
1058	365245.85	17584110.61	1343.90
1059	365172.59	17584008.10	1343.50
1060	365128.66	17584039.49	1343.50
1061	365201.92	17584142.01	1343.60
1062	365157.98	17584173.40	1343.40
1063	365084.72	17584070.89	1343.50
1064	365040.79	17584102.28	1343.50
1065	365114.05	17584204.80	1343.10
1066	365021.43	17584245.22	1341.70
1067	365021.06	17584116.38	1343.00
1068	365000.16	17583798.84	1344.50
1069	364999.80	17583673.84	1345.60
1070	365079.80	17583673.61	1348.10
1071	365080.15	17583798.61	1344.00
1072	365150.15	17583798.41	1344.00
1073	365149.80	17583673.41	1350.20
1074	365219.80	17583673.21	1348.30
1075	365220.15	17583798.21	1344.00
1076	365300.15	17583797.98	1344.00
1077	365299.80	17583672.98	1346.20
1078	365373.93	17583672.20	1346.60
1079	365387.14	17583797.73	1344.00
1080	365538.67	17583797.30	1344.00
1081	365428.17	17583650.82	1346.90
1082	365598.18	17583797.13	1343.90
1083	365597.19	17583656.17	1345.40
1084	365463.95	17583603.73	1347.10
1085	365471.38	17583541.75	1347.40
1086	365596.37	17583540.87	1346.10
1087	365595.86	17583468.37	1346.80
1088	365470.86	17583469.25	1347.80
1089	365470.35	17583396.75	1348.20
1090	365595.35	17583395.87	1347.70
1091	365594.42	17583263.90	1349.10
1092	365459.48	17583328.65	1348.70
1093	365593.55	17583141.14	1348.30
1094	365503.28	17583141.40	1349.10
1095	365417.70	17583282.59	1349.30

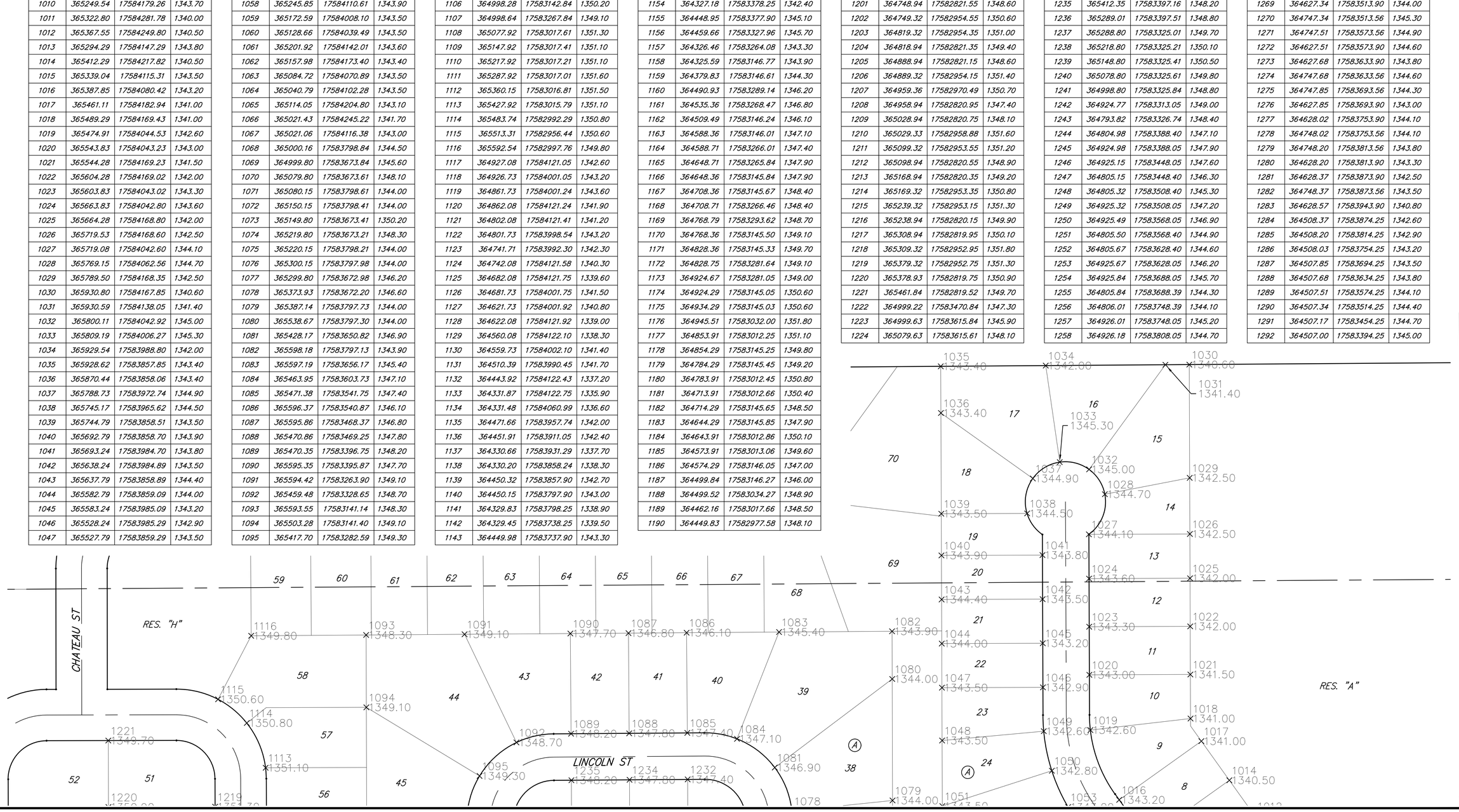
Point Table			
Point #	Northing	Easting	Elevation
1096	365360.87	17583266.81	1349.90
1097	365360.51	17583141.81	1348.80
1098	365288.28	17583142.01	1349.80
1099	365288.64	17583267.01	1349.70
1100	365218.64	17583267.21	1350.10
1101	365218.28	17583142.21	1350.40
1102	365148.28	17583142.41	1351.60
1103	365148.64	17583267.41	1350.50
1104	365078.64	17583267.61	1349.80
1105	365078.28	17583142.61	1350.90
1106	364998.28	17583142.84	1350.20
1107	364998.64	17583267.84	1349.10
1108	365077.92	17583017.61	1351.30
1109	365147.92	17583017.41	1351.10
1110	365217.92	17583017.21	1351.10
1111	365287.92	17583017.01	1351.60
1112	365360.15	17583016.81	1351.50
1113	365427.92	17583015.79	1351.10
1114	365483.74	17582992.29	1350.80
1115	365513.31	17582956.44	1350.60
1116	365592.54	17582997.76	1349.80
1117	364927.08	17584121.05	1342.60
1118	364926.73	17584001.05	1343.20
1119	364861.73	17584001.24	1343.60
1120	364862.08	17584121.24	1341.90
1121	364802.08	17584121.41	1341.20
1122	364801.73	17583998.54	1343.20
1123	364741.71	17583992.30	1342.30
1124	364742.08	17584121.58	1340.30
1125	364682.08	17584121.75	1339.60
1126	364681.73	17584001.75	1341.50
1127	364621.73	17584001.92	1340.80
1128	364622.08	17584121.92	1339.00
1129	364560.08	17584122.10	1338.30
1130	364559.73	17584002.10	1341.40
1131	364510.39	17583990.45	1341.70
1132	364443.92	17584122.43	1337.20
1133	364331.87	17584122.75	1335.90
1134	364331.48	17584060.99	1336.60
1135	364471.66	17583957.74	1342.00
1136	364451.91	17583911.05	1342.40
1137	364330.66	17583931.29	1337.70
1138	364330.20	17583858.24	1338.30
1139	364450.32	17583857.90	1342.70
1140	364450.15	17583797.90	1343.00
1141	364329.83	17583798.25	1338.90
1142	364329.45	17583738.25	1339.50
1143	364449.98	17583737.90	1343.30

Point Table			
Point #	Northing	Easting	Elevation
1144	364449.81	17583677.90	1343.60
1145	364329.07	17583678.25	1340.10
1146	364328.69	17583618.25	1340.70
1147	364449.64	17583617.90	1343.90
1148	364449.46	17583557.90	1344.20
1149	364328.32	17583558.25	1341.30
1150	364327.94	17583498.25	1341.50
1151	364449.29	17583497.90	1344.50
1152	364449.12	17583437.90	1344.80
1153	364327.56	17583438.25	1341.90
1154	364327.18	17583378.25	1342.40
1155	364448.95	17583377.90	1345.10
1156	364459.66	17583327.96	1345.70
1157	364326.46	17583264.08	1343.30
1158	364325.59	17583146.77	1343.90
1159	364379.83	17583146.61	1344.30
1160	364490.93	17583289.14	1346.20
1161	364535.36	17583268.47	1346.80
1162	364509.49	17583146.24	1346.10
1163	364588.36	17583146.01	1347.10
1164	364588.71	17583266.01	1347.40
1165	364648.71	17583265.84	1347.90
1166	364648.36	17583145.84	1347.90
1167	364708.36	17583145.67	1348.40
1168	364708.71	17583266.46	1348.40
1169	364768.79	17583293.62	1348.70
1170	364768.36	17583145.50	1349.10
1171	364828.36	17583145.33	1349.70
1172	364828.75	17583281.64	1349.10
1173	364924.67	17583281.05	1349.00
1174	364924.29	17583145.05	1350.60
1175	364934.29	17583145.03	1350.60
1176	364945.51	17583032.00	1351.80
1177	364853.91	17583012.25	1351.10
1178	364854.29	17583145.25	1349.80
1179	364784.29	17583145.45	1349.20
1180	364783.91	17583012.45	1350.80
1181	364713.91	17583012.66	1350.40
1182	364714.29	17583145.65	1348.50
1183	364644.29	17583145.85	1347.90
1184	364643.91	17583012.86	1350.10
1185	364573.91	17583013.06	1349.60
1186	364574.29	17583146.05	1347.00
1187	364499.84	17583146.27	1346.00
1188	364499.52	17583034.27	1348.90
1189	364462.16	17583017.66	1348.50
1190	364449.83	17582977.58	1348.10

Point Table			
Point #	Northing	Easting	Elevation
1191	364324.18	17582960.62	1345.90
1192	364323.13	17582822.77	1347.20
1193	364412.58	17582822.52	1347.80
1194	364475.73	17582940.21	1348.50
1195	364536.31	17582950.56	1349.30
1196	364535.94	17582822.16	1348.90
1197	364605.94	17582821.96	1348.20
1198	364606.32	17582954.96	1349.80
1199	364676.32	17582954.76	1350.30
1200	364675.94	17582821.76	1347.60
1201	364748.94	17582821.55	1348.60
1202	364749.32	17582954.55	1350.60
1203	364819.32	17582954.35	1351.00
1204	364818.94	17582821.35	1349.40
1205	364888.94	17582821.15	1348.60
1206	364889.32	17582954.15	1351.40
1207	364959.36	17582970.49	1350.70
1208	364958.94	17582820.95	1347.40
1209	365028.94	17582820.75	1348.10
1210	365029.33	17582958.88	1351.60
1211	365099.32	17582953.55	1351.20
1212	365098.94	17582820.55	1348.90
1213	365168.94	17582820.35	1349.20
1214	365169.32	17582953.35	1350.80
1215	365239.32	17582953.15	1351.30
1216	365238.94	17582820.15	1349.90
1217	365308.94	17582819.95	1350.10
1218	365309.32	17582952.95	1351.80
1219	365379.32	17582952.75	1351.30
1220	365378.93	17582819.75	1350.90
1221	365461.84	17582819.52	1349.70
1222	364999.22	17583470.84	1347.30
1223	364999.63	17583615.84	1345.90
1224	365079.63	17583615.61	1348.10

Point Table			
Point #	Northing	Easting	Elevation
1225	365079.22	17583470.61	1348.10
1226	365149.22	17583470.41	1349.60
1227	365149.63	17583615.41	1350.20
1228	365219.63	17583615.21	1348.30
1229	365219.22	17583470.21	1348.80
1230	365289.22	17583470.01	1348.00
1231	365289.63	17583615.01	1346.50
1232	365413.38	17583542.16	1347.40
1233	365289.42	17583542.51	1347.20
1234	365412.87	17583469.66	1347.80
1235	365412.35	17583397.16	1348.20
1236	365289.01	17583397.51	1348.80
1237	365288.80	17583325.01	1349.70
1238	365218.80	17583325.21	1350.10
1239	365148.80	17583325.41	1350.50
1240	365078.80	17583325.61	1349.80
1241	364998.80	17583325.84	1348.80
1242	364924.77	17583313.05	1349.00
1243	364793.82	17583326.74	1348.40
1244	364804.98	17583388.40	1347.10
1245	364924.98	17583388.05	1347.90
1246	364925.15	17583448.05	1347.60
1247	364805.15	17583448.40	1346.30
1248	364805.32	17583508.40	1345.30
1249	364925.32	17583508.05	1347.20
1250	364925.49	17583568.05	1346.90
1251	364805.50	17583568.40	1344.90
1252	364805.67	17583628.40	1344.60
1253	364925.67	17583628.05	1346.20
1254	364925.84	17583688.05	1345.70
1255	364805.84	17583688.39	1344.30
1256	364806.01	17583748.39	1344.10
1257	364926.01	17583748.05	1345.20
1258	364926.18	17583808.05	1344.70

Point Table			
Point #	Northing	Easting	Elevation
1259	364806.18	17583808.39	1343.80
1260	364806.35	17583868.39	1343.50
1261	364926.35	17583868.05	1344.20
1262	364926.57	17583943.05	1343.70
1263	364797.98	17583934.78	1343.10
1264	364626.80	17583323.91	1347.30
1265	364627.00	17583393.91	1346.00
1266	364747.00	17583393.56	1347.10
1267	364747.17	17583453.56	1346.20
1268	364627.17	17583453.90	1345.20
1269	364627.34	17583513.90	1344.00
1270	364747.34	17583513.56	1345.30
1271	364747.51	17583573.56	1344.90
1272	364627.51	17583573.90	1344.60
1273	364627.68	17583633.90	1343.80
1274	364747.68	17583633.56	1344.60
1275	364747.85	17583693.56	1344.30
1276	364627.85	17583693.90	1343.00
1277	364628.02	17583753.90	1344.10
1278	364748.02	17583753.56	1344.10
1279	364748.20	17583813.56	1343.80
1280	364628.20	17583813.90	1343.30
1281	364628.37	17583873.90	1342.50
1282	364748.37	17583873.56	1343.50
1283	364628.57	17583943.90	1340.80
1284	364508.37	17583874.25	1342.60
1285	364508.20	17583814.25	1342.90
1286	364508.03	17583754.25	1343.20
1287	364507.85	17583694.25	1343.50
1288	364507.68	17583634.25	1343.80
1289	364507.51	17583574.25	1344.10
1290	364507.34	17583514.25	1344.40
1291	364507.17	17583454.25	1344.70
1292	364507.00	17583394.25	1345.00



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

PRAIRIE GLEN ADDITION
Phase 1

COORDINATE SHEET

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: DRAWN:

DATE: May 9, 2025

SHEET 52 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat)_24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

LINCOLN ST
BAYLEY ST
WILSHIRE TERRACE
BEDELL ST
CHATEAU ST
CHATEAU CT
SMITHMOOR ST
SMITHMOOR
LEEANNE ST
LEEANNE
DEER HAVEN CIR
RES. "A"
RES. "B"
RES. "C"
RES. "D"
RES. "E"
RES. "F"
RES. "1"

60 0 60
Scale: 1"=60'

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PRAIRIE GLEN ADDITION
Phase 1

COORDINATE SHEET

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

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SHEET 53 OF 54

File: E:\Projects\Prairie Glen Addition (Starr Property Plat)\ 24-01-P971\Engineering\Phase 1\SWD 24-10-E950\SWD.dwg

PRAIRIE GLEN ADDITION
WICHITA, SEDGWICK COUNTY, KANSAS

FOR REFERENCE ONLY
NOT TO SCALE

EXCEPTION

0 100 200
Scale: 1" = 100'

● = #4 REBAR W/ "BAUGHMAN" CAP (SET)
○ = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
■ = #4 REBAR W/ "SAVOY" CAP (FOUND)
⊠ = #4 REBAR W/ "RUGGLES & BOHM" CAP (FOUND)
⊗ = #4 REBAR W/ YELLOW CAP (FOUND) (ORIGIN UNKNOWN)
◎ = #4 REBAR (FOUND) (ORIGIN UNKNOWN)
⊙ = #5 REBAR W/ "RUGGLES & BOHM" CAP (FOUND)
□ = #5 REBAR W/ METAL CAP (FOUND) (ORIGIN UNKNOWN)
⊠ = CHISELED "X" IN CONCRETE (FOUND) (ORIGIN UNKNOWN)
✕ = CHISELED "V" IN CONCRETE (FOUND) (ORIGIN UNKNOWN)
△ = 1/2" IRON PIPE IN TRIMBLE (FOUND) (ORIGIN UNKNOWN)
◆ = 3/4" IRON PIPE W/ "PEC" CAP (FOUND)
⊠ = BENCHMARK

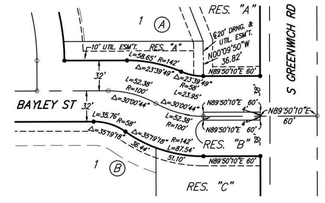
(M) = MEASURED
(D) = DESCRIBED
(P) = PLATTED
(CM) = CALCULATED PER MEASURED INFO.
(CP) = CALCULATED PER PLATTED INFO.

BENCHMARK:
BM #1: SQUARE CUT WITH CROSS SOUTHEAST CORNER OF CURB INLET, EAST SIDE OF SMITHMOOR ST., 10.1'± WEST AND 6.9'± NORTH OF SE COR., LOT 16, BLOCK 1, FAWN GROVE AT SUNSET LAKES ADDITION.
ELEV. = 1349.51 NAVD88

BM #2: SQUARE CUT WITH CROSS NORTHEAST CORNER OF CURB INLET, EAST SIDE OF SHILOH ST., 9.5'± WEST AND 12.1'± SOUTH OF NW COR., LOT 1, BLOCK B, CRYSTAL CREEK ADDITION.
ELEV. = 1344.35 NAVD88

MINIMUM BUILDING PAD ELEVATION FOR LOWEST OPENING TO THE STRUCTURES		
LOT	BLOCK	ELEVATION NAVD88
1–6	A	1337.6
7–10	A	1338.6
11–15	A	1339.9
21–39, 69	A	1344.9
1	B	1336.3
11–50	D	1346.5

NOTE:
ALL LOTS WITHIN PRAIRIE GLEN ADDITION SHALL HAVE A 5 FOOT INTERIOR SIDEYARD SETBACK.



DETAIL "A"
(NO SCALE)

EASEMENT NOTE:
Existing Blanket Cities Service Gas Company Pipeline Right of Way over the Southeast Quarter of Sec. 28, Twp. 27–S, R–2–E of the Sixth Principal Meridian, Sedgwick County, Kansas, (Misc. Book 47, Page 73), no record of assignment, in the process of being released. No pipeline within plat legal description.

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.

PRAIRIE GLEN ADDITION

PAGE 2 OF 2

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

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Wichita, KS 67211
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BaughmanCo.com

PRAIRIE GLEN ADDITION
Phase 1

COPY OF PLAT

STORM WATER SEWER IMPROVEMENTS

PROJECT NUMBER:
24-10-E950

DESIGN: DRAWN:

DATE: May 9, 2025

SHEET 54 OF 54

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