CITY OF EDWARDSVILLE, KANSAS

2014 STREET REPAIRS

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3	Alignment Detail & Survey Control
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INTERSECTION RECONSTRUCTION PROJECT INFORMATION
Design Designation: Local Street
Length of Project:
Edgehill Drive: 185 LF
102nd Terrace: 244 LF
Design Speed: 20mph
Posted Speed: 20mph

APPLICABLE DESIGN CRITERIA

- UNIFIED GOVERNMENT STANDARDS
- AASHTO CURRENT CRITERIA

UTILITIES

NOTE:
AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES FOR FIELD VERIFICATION OF UNDERGROUND UTILITIES.

ATMOS ENERGY
Richard A. Yunghans II
25090 W. 110th Terr.
Olathe, Kansas 66061
Work 913–254–6355
Fax 913–768–4924
Mobile 913–208–1549
Email Richard.Yunghans@atmosenergy.com

AT&T
Rick Theno
5400 Foxridge
Mission, Kansas 66202
Work 913–676–1281
Fax 913–676–1598
Email ricke.m.theno@att.com
Email rt7095@att.com

BPU-WATER
Jenny Li
300 N. 65th Street
Kansas City, Kansas 66102–3027
Work 913–573–9845
Email jli@bpu.com

BPU-ELECTRIC
Courtney Connor
6742 Riverview
Kansas City, Kansas 66102
Work 913–573–9538
Fax 913–573–9579
Email cconnor@bpu.com

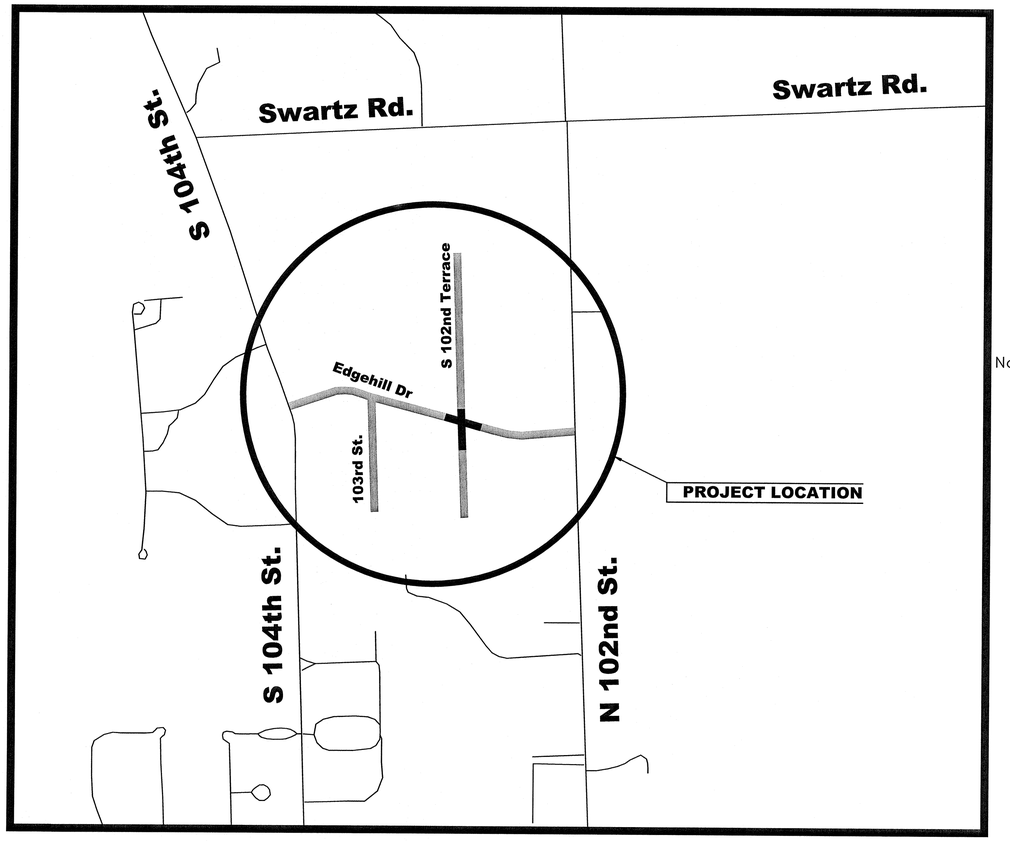
KCP&L
Gary Price
19950 Newton
Stilwell, Kansas 66085–0154
Work 913–681–7420
Email Gary.Price@kcpl.com

LIGHTCORE/CENTURYLINK
Brian Cornish
5454 W. 110th Street
Overland Park, Kansas 66211
Work 913–871–9992
Fax 913–722–0577
Mobile 913–484–4526
Email Brian.Cornish@qwest.com

TIME WARNER
Alex Cashman
8221 W. 119th Street
Overland Park, Kansas 66213
Mobile 913–915–0553
Fax 913–312–0014
Email charles.cashman@twcable.com

ONE CALL KANSAS
1-800-DIG-SAFE
(1-800-344-7233)

All existing utility locations shown are approximate only and are not a guarantee of the actual field conditions. Contractor shall be responsible for contacting all utility companies and verifying the actual locations of all utilities prior to any construction activity. Contractor shall keep all utility locations current. Utilities damaged through the negligence of the Contractor to obtain the proper field locations shall be the responsibility of the Contractor to repair or replace at their expense and at the direction of the utility company.



PROJECT AREA
SECTION 23, T11S, R23E

Not To Scale

INTERSECTION RECONSTRUCTION
MILL AND OVERLAY

BHC RHODES
Civil Engineering • Surveying • Utilities

PREPARED & SUBMITTED BY:

RANDALL JAY GORTON
LICENSED
16020
KANSAS
PROFESSIONAL ENGINEER

Randall 4/24/14
DATE

Rev.	Date	Description	By	App.

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Prepared For:

EDGEHILL DR. & 102ND TERR.
INTERSECTION RECONSTRUCTION
CITY OF EDWARDSVILLE, KS

COVER

Design: JDR	Drawn: JDR
Checked:	RJG
Issue Date:	04/23/14
Project Number:	013740.02.03

01 of 08

01

Apr 23, 2014 – 10:19pm Plotted By: david.ratley W:\013740.02.03\DWG\Eng\Sheet\013740-ROAD-COVR.dwg Layout: COVER

GENERAL NOTES

1. Borrow areas provided by the Contractor shall be approved by the Engineer as to suitability of material and location. Special care shall be taken in this approval to minimize the increase of siltation and turbidity of streams, lakes and reservoirs and to avoid interference with the movement of migratory fish. Areas which, in the opinion of the Engineer, may leave an unsightly appearance to the project will not be approved.

2. At borrow area locations adjacent to the right of way, utility poles may be set at the permanent location prior to construction as approved by the engineer provided a minimum vertical clearance, in accordance with the national electrical safety code, is obtained. the contractor will be required to work around these poles to complete the work.

3. Embankment quantities for initial consolidation and settlement shown in the earthwork quantities are Subsidiary to other earthwork items. Material for the embankment is included in the excavation quantities.

4. Excavation required for placing select soil is included in the common excavation quantities.

5. Excavation shown to be wasted shall be wasted on sites provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance, and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.

6. Contractor shall maintain all mailboxes in accordance with USPS requirements throughout construction.

7. It will be the responsibility of the Contractor to ensure that access to all properties is available during construction of the project.

8. All saw cuts shown on the plans shall not be paid for directly, but shall be considered Subsidiary to other items of the contract. The depth of the cut shall be full depth.

9. Existing concrete pavement and existing bituminous pavement that is removed will become the property of the Contractor & disposed of at his expense.

10. It shall be the Contractor's responsibility to coordinate with the utility owners to locate and flag all relocated underground utilities prior to excavation to avoid damaging the utilities. The locations shown on the plans are the original surveyed location, prior to relocation in some cases. The information shown in these plans concerning type and location of underground utilities is not guaranteed to be accurate or all–inclusive. The Contractor is responsible for contacting the utility companies provided for field location of all underground facilities prior to any excavation. The Contractor shall coordinate with the proper utility owners during construction of the proposed storm sewer system to avoid damages to existing facilities. Damage to any facilities will be paid for at the Contractor's expense.

11. All trees, shrubs, bushes, and brush within the grading limits shall be removed by the Contractor unless specifically indicated to be saved on the plans. Large Trees within the construction easements that are not shown on the plans shall be brought to the attention of the Engineer prior to disturbance, and exceptionally good trees shall be spared by adjusting backslope lines during construction, as directed by the Engineer. All trees within the construction limits to be saved shall have their trunks physically protected prior to construction operations by methods approved by the Engineer.

12. All trees, hedge rows, shelterbelts, and woody shrubs not shown to be removed and located between the construction limits and the Right–Of–Way line or easement line shall be spared unless directed by the engineer to be removed. All trees within the appropriate clear zone shall be removed.

13. All signs removed by the Contractor shall become property of the Contractor and shall be removed and disposed of at his expense.

14. The Contractor shall thoroughly review and become familiar with the project plans, specifications and any special conditions of the Contract Documents prior to beginning construction of this project.

15. Driveways, sidewalks, parking lots, yard lights, fences, sprinkler systems, utility service line connections, landscaping, septic systems, and other areas outside the construction limits that are damaged by the Contractor shall be restored at his expense to a condition equal to or better than existing before damage occurred.

16. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would 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 would required additional archeological investigations unless buried in a previously approved borrow location.

17. All work shall be confined within the easements and/or construction limits as directed by the Engineer. All temporary construction easements shall be staked by the Contractor prior to beginning of construction. All grading limits shown are approximate and may be extended or reduced at the direction of the Engineer.

18. The Contractor shall provide adequate sediment and erosion control to prevent mud and/or debris from entering streets open to traffic, the storm sewer system, or yards of adjacent residences and businesses.

19. All temporary traffic control signs shall be fabricated and installed in accordance with the latest M.U.T.C.D. The traffic control plans shown are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction begins. The requirements shown in no way relieve the Contractor of his responsibility for selecting & implementing the proper devices and procedures that will assure the safety of motorists, pedestrians, & workers at all times.

20. Labor, tools, materials, and equipment required for temporary connections to maintain positive drainage during construction shall be Subsidiary to other pay items.

21. The Contractor will be responsible for supporting and protecting all exposed utilities in open trenches. Work shall be Subsidiary to other pay items.

LEGEND

- = BENCHMARK
- = VACUUM HOLE LOCATION & NUMBER
- = CABLE TV PEDESTAL
- = CONTROL POINT
- = ELECTRIC ACCESS VAULT
- = ELECTRIC MANHOLE
- = ELECTRIC METER
- = ELECTRIC PEDESTAL
- Post = FENCE POST
- = FIBER OPTIC ACCESS VAULT
- = FIRE HYDRANT
- = GAS METER
- = GAS VALVE
- = GUY ANCHOR
- = LIGHT POLE
- = MAILBOX
- = POWER POLE
- = RIGHT-OF-WAY TRACT NO.
- = SANITARY SEWER MANHOLE
- = SHRUB
- = SIGN
- = SPRINKLER VALVE
- = STORM SEWER
- = STORM SEWER MANHOLE
- = STREAM OR FLOWLINE
- = STREET LIGHT CONTROLLER
- = TELEPHONE ACCESS BOX
- = TELEPHONE ACCESS VAULT
- = TELEPHONE MANHOLE
- = TELEPHONE PEDESTAL
- = TO BE REMOVED
- = TRAFFIC CONTROL ACCESS VAULT
- = TRAFFIC CONTROL MANHOLE
- = TRAFFIC SIGNAL CONTROLLER w/ CONCRETE PAD
- = TRAFFIC SIGNAL POLE
- = TREES
- = WATER METER
- = WATER SPRINKLER CONTROL BOX
- = WATER SPRINKLER HEAD
- = WATER VALVE
- = WOOD BOLLARD
- = YARD LIGHT

- = APPROXIMATE GRADING LIMITS
- = EXISTING RIGHT OF WAY
- ℄ = BASELINE
- ℄ = CENTERLINE
- CMP = CORRUGATED METAL PIPE
- C&G = CURB AND GUTTER
- DND = DO NOT DISTURB
- EB = EASTBOUND
- EP = ENTRANCE PIPE
- ℄ = FLOW LINE
- H.G.L. = HYDRAULIC GRADE LINE
- LIP = LEAVE IN PLACE
- NRDJ = NON-REINFORCED, DOWEL JOINTED
- P.G. = PROFILE GRADE
- RCP = REINFORCED CONCRETE PIPE
- R/W = RIGHT-OF-WAY
- (TBA) = TO BE ABANDONED
- TC = TOP OF CURB
- VH# = VACUUM HOLE

Rev.	Date	Description	By	App.

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Prepared For:

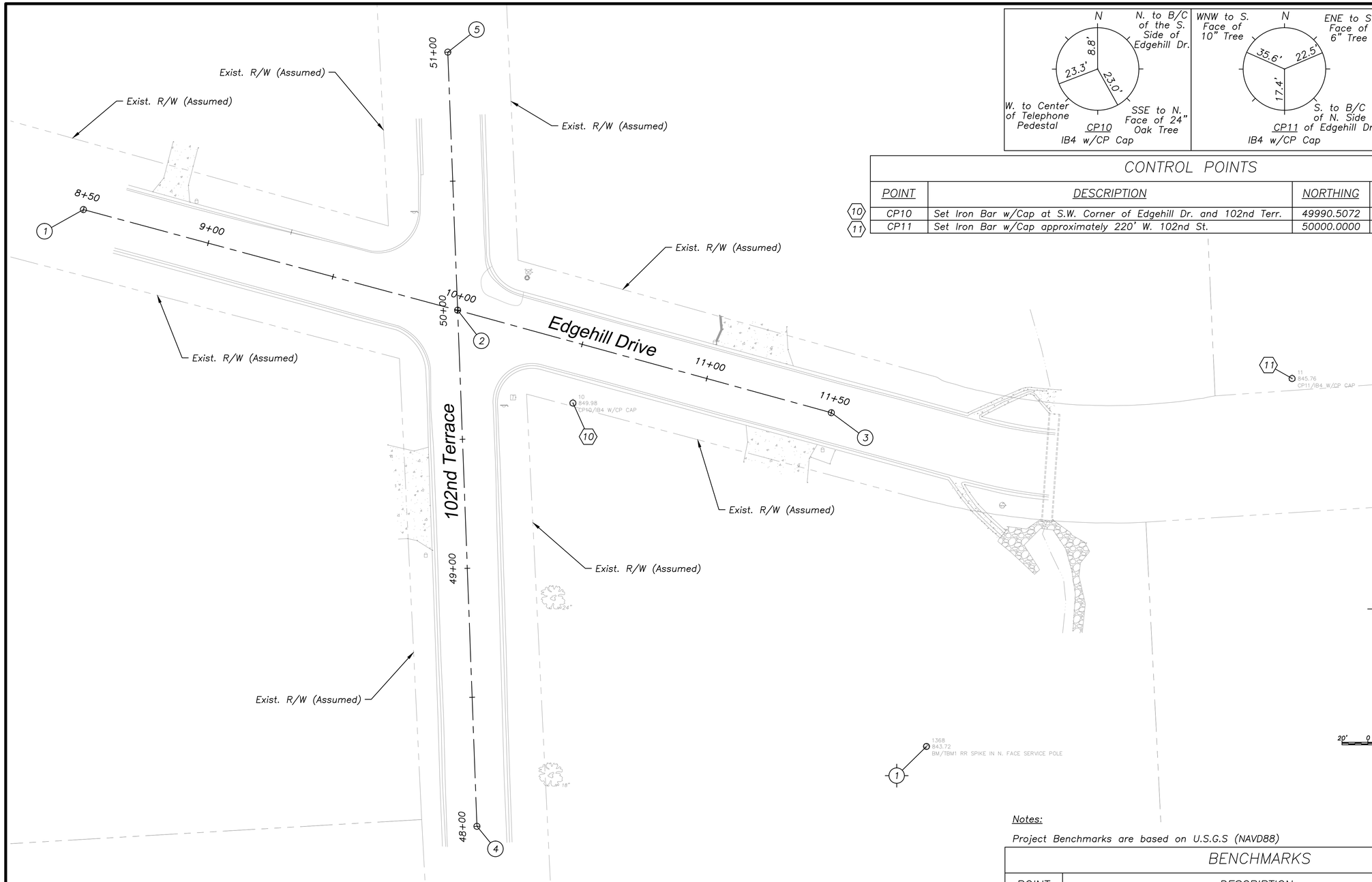
THE CITY OF EDWARDSVILLE KANSAS 1915

EDGEHILL DR. & 102ND TERR.
INTERSECTION RECONSTRUCTION
CITY OF EDWARDSVILLE, KS

GENERAL NOTES & LEGEND

Design: JDR	Drawn: JDR
Checked:	RJG
Issue Date:	04/23/14
Project Number:	013740.02.03

Apr 23, 2014 – 10:08pm Plotted By: david.ratley W:\013740.02.03\DWG\Eng\Sheet\013740-ROAD-GNRL.dwg Layout: General Layout



CONTROL POINTS

	POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
10	CP10	Set Iron Bar w/Cap at S.W. Corner of Edgehill Dr. and 102nd Terr.	49990.5072	29721.5989	849.98
11	CP11	Set Iron Bar w/Cap approximately 220' W. 102nd St.	50000.0000	30000.0000	845.76

Notes:

Project Benchmarks are based on U.S.G.S (NAVD88)

BENCHMARKS

	POINT	DESCRIPTION	ELEVATION
1	BM1	R.R. Spike N. Face of Service Pole Serving House #1201 S. 102nd Terr.	843.72

EDGEHILL DRIVE CENTERLINE DATA

	POINT	STATION	NORTHING	EASTING	ELEMENT	LENGTH	BEARING
1	P.O.B.	8+50.00	50065.4346	29532.1051			
					Line	150.00	S74°56'25"E
2	P.O.I.	10+00.00	50026.4607	29676.9534			
					Line	150.00	S74°39'40"E
3	P.O.E.	11+50.00	49986.7816	29821.6101			

102ND TERRACE CENTERLINE DATA

	POINT	STATION	NORTHING	EASTING	ELEMENT	LENGTH	BEARING
4	P.O.B.	48+00.00	49826.6005	29684.4306			
					Line	200.00	N02°08'33"W
2	P.O.I.	50+00.00	50026.4607	29676.9534			
					Line	100.00	N02°10'53"W
5	P.O.I.	51+00.00	50126.3882	29673.1470			

Notes:

1. All coordinates listed above are "ground" or "project".

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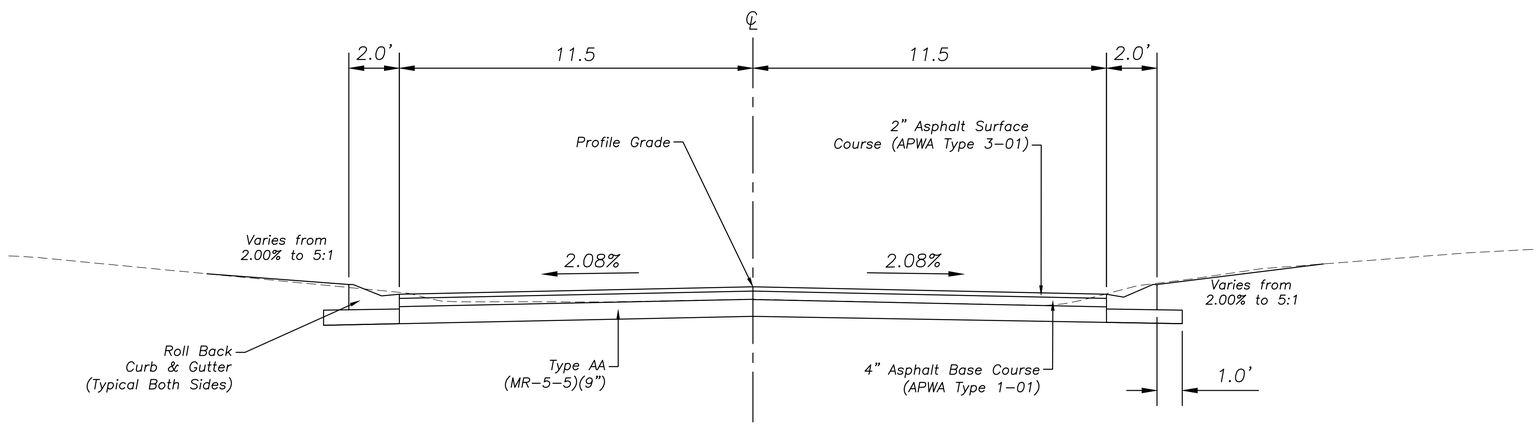
Prepared For:

EDGEHILL DR. & 102ND TERR. INTERSECTION RECONSTRUCTION CITY OF EDWARDSVILLE, KS

ALIGNMENT DETAIL & SURVEY CONTROL

Design: JDR Drawn: JDR
Checked: RJG
Issue Date: 04/23/14
Project Number: 013740.02.03

Apr 23, 2014 - 10:21pm Plotted By: david.ratley W:\013740.02.03\DWG\Eng\Sheet\013740-ROAD-ALGN_CNTRL.dwg Layout: Align_Cntrl



EDGEHILL DRIVE & 102ND TERRACE
TYPICAL SECTION
N.T.S.

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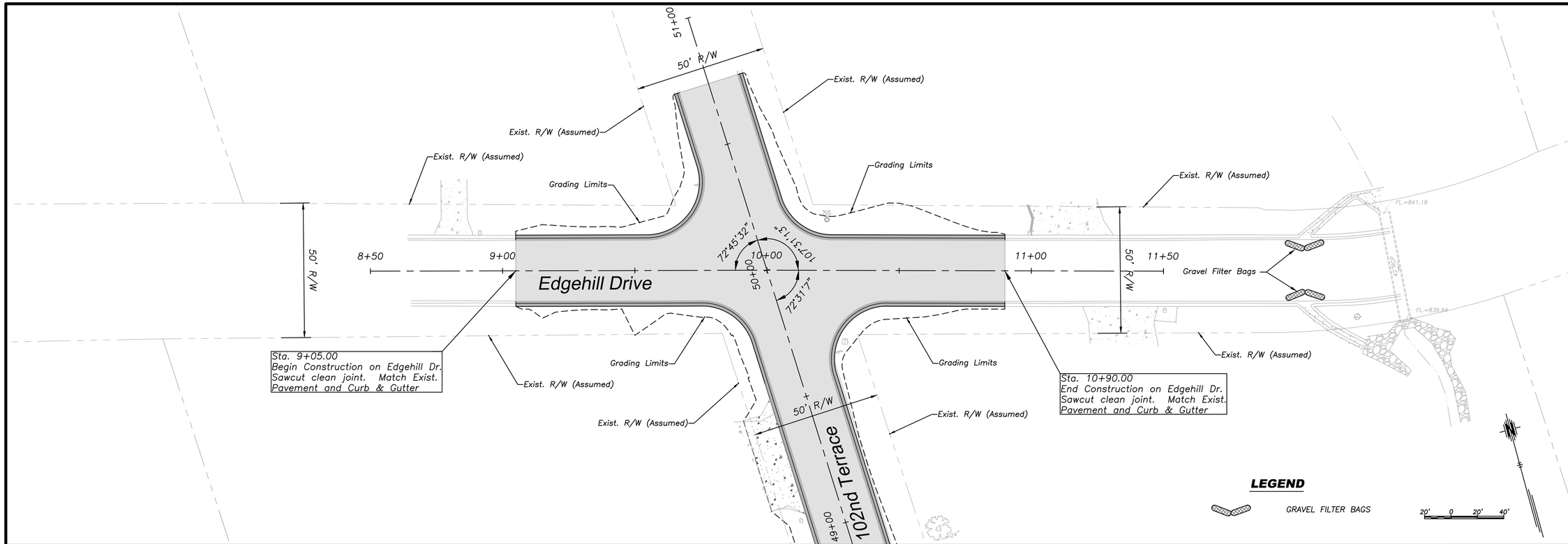
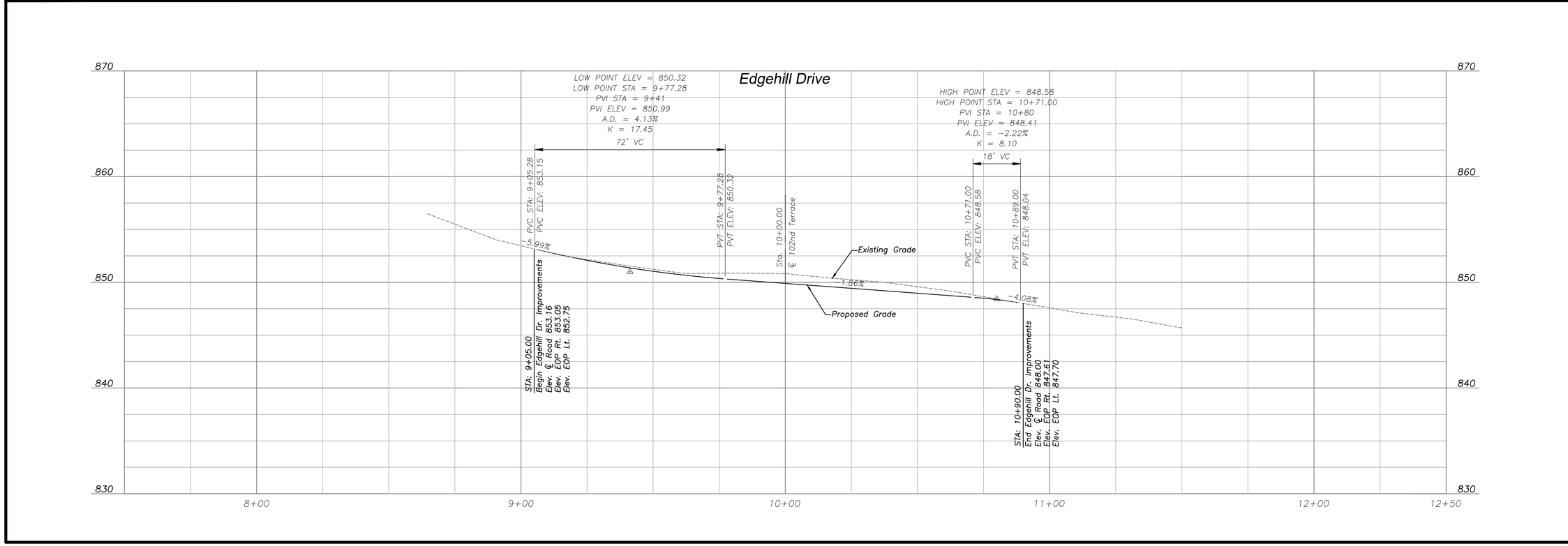
EDGEHILL DR. & 102ND TERR.
INTERSECTION RECONSTRUCTION
CITY OF EDWARDSVILLE, KS

TYPICAL SECTIONS

Design: JDR	Drawn: JDR
Checked:	RJG
Issue Date:	04/23/14
Project Number:	013740.02.03

Apr 28, 2014 - 2:09pm Plotted By: lee.ryhard W:\013740.02.03\DWG\Eng\Sheet\013740-ROAD-TYPS.dwg Layout: Typ Sec





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INTERSECTION RECONSTRUCTION
CITY OF EDWARDSVILLE, KS

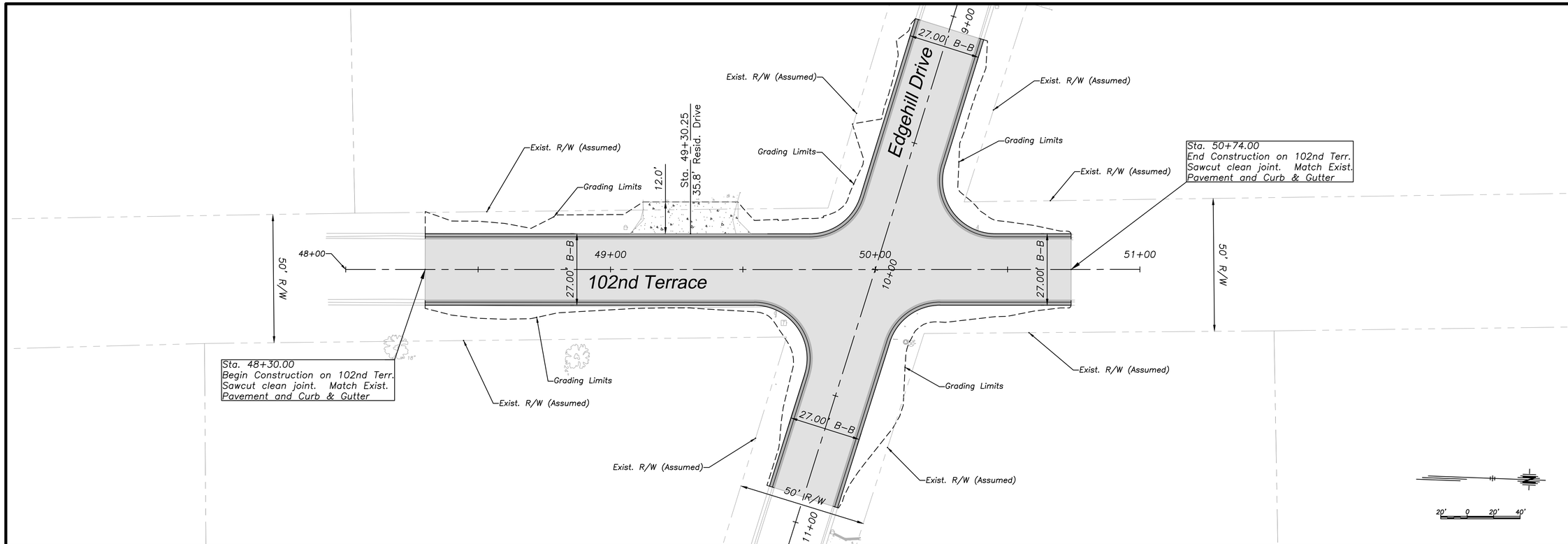
EDGEHILL DRIVE
PLAN & PROFILE

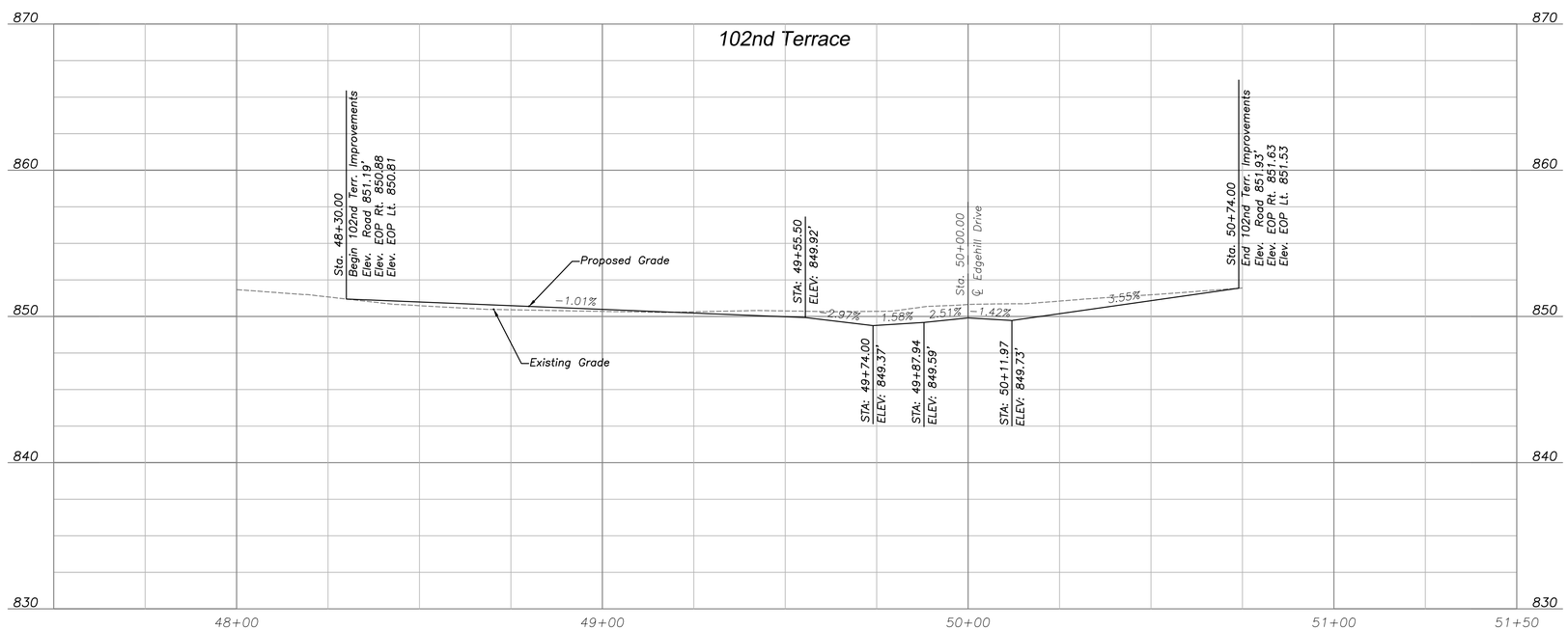
Design: JDR	Drawn: JDR
Checked:	RJG
Issue Date:	04/23/14
Project Number:	013740.02.03

05 of 08

05

Apr 23, 2014 - 10:25pm Plotted By: david.ratley W:\013740.02.03\DWG\Eng\Sheet\013740-PNP.dwg Layout: Edgehill





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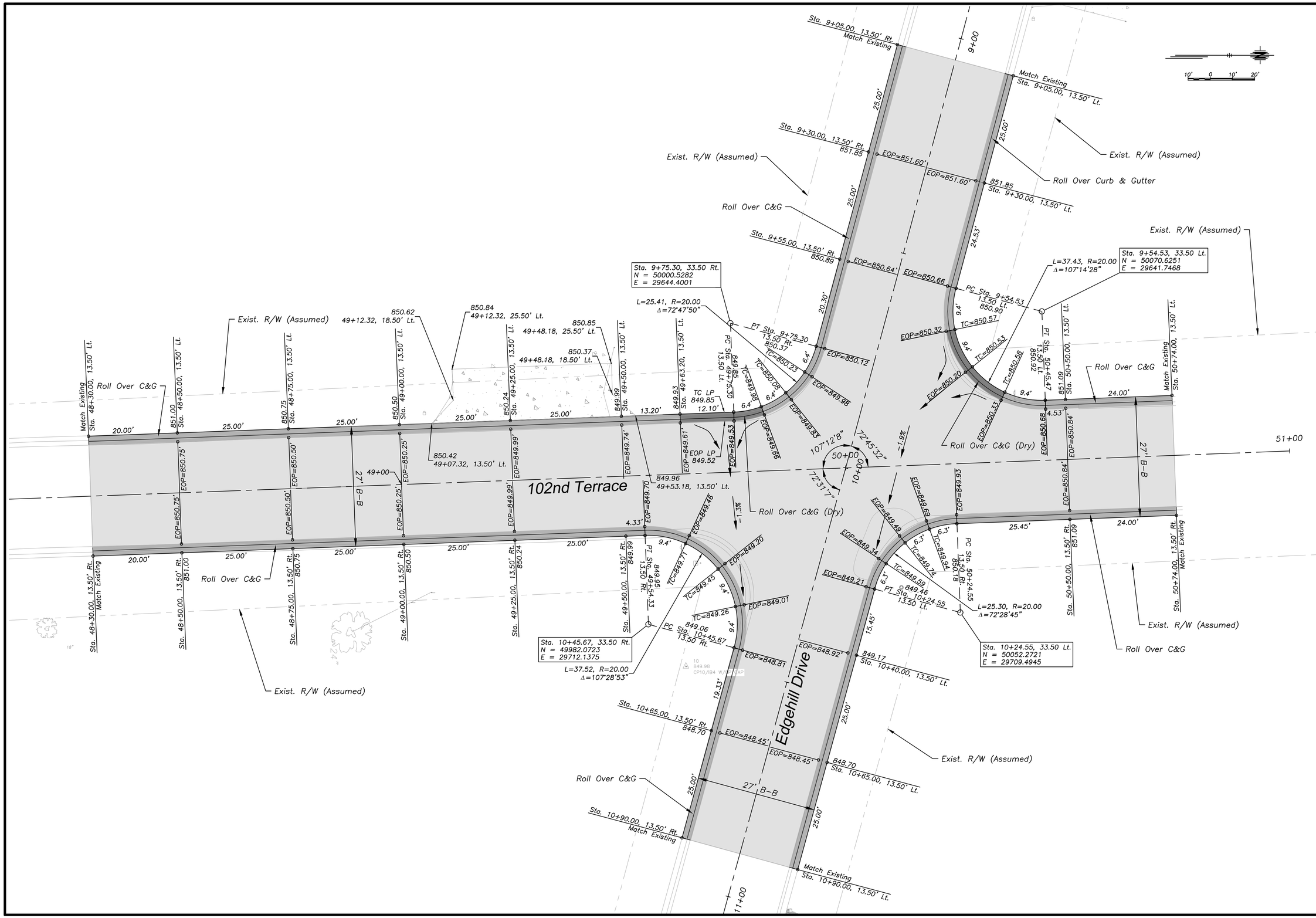
INTERSECTION RECONSTRUCTION
CITY OF EDWARDSVILLE, KS

102ND TERRACE
PLAN & PROFILE

Design: JDR	Drawn: JDR
Checked:	RJG
Issue Date:	04/23/14
Project Number:	013740.02.03

Apr 23, 2014 - 10:24pm Plotted By: david.ratley W:\013740.02.03\DWG\Eng\Sheet\013740-PNP.dwg Layout: 102nd Tr



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EDGEHILL DR. & 102ND TERR.
INTERSECTION RECONSTRUCTION
CITY OF EDWARDSVILLE, KS

INTERSECTION DETAIL

Design: JDR	Drawn: JDR
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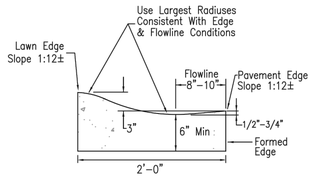
Issue Date:	04/23/14
Project Number:	013740.02.03

07 of 08

07

Apr 23, 2014 – 10:28pm Plotted By: david.ratley W:\013740.02.03\DWG\Eng\Sheet\013740-ROAD-INT-DETL.dwg Layout: Int Detail



NOTES:

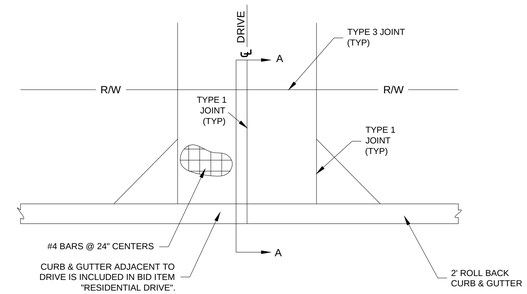
Broom Finish Shall Be Used For All Curb & Gutter.

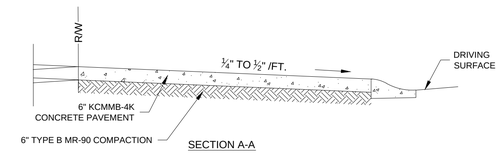
CURB AND GUTTER SECTIONS

PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

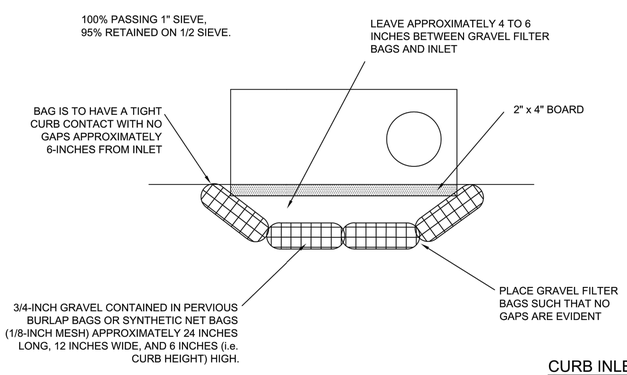
UNIFIED GOVERNMENT

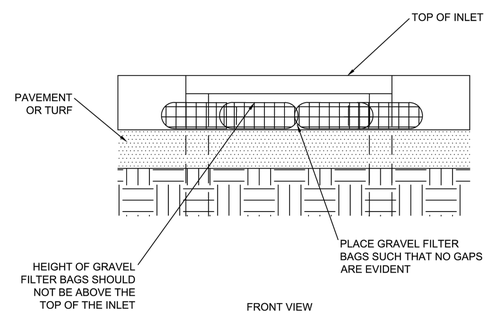
UG 4100–C
2008 Edition





RESIDENTIAL ENTRANCE DETAIL





CURB INLET GRAVEL FILTER

Rev.	Date	Description	By	App.

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INTERSECTION RECONSTRUCTION
CITY OF EDWARDSVILLE, KS

STANDARD DETAILS

Design: JDR	Drawn: JDR
Checked:	RJG
Issue Date:	04/23/14
Project Number:	013740.02.03

Apr 23, 2014 – 10:10pm Plotted By: david.ratley W:\013740.02.03\DWG\Eng\Sheet\013740-ROAD-DTLS.dwg Layout: Standard Details