GENERAL NOTES

Unless shown or stated otherwise on these drawings, all labor, materials and construction shall be in accordance with the City of Wichita's Standard Specifications and Special Supplemental Specifications. Section 601 of the standard specifications defers to the current edition of the Kansas Department of Transportation's Standard Specifications for State Road and Bridge Construction. The latter will also be applicable for all concrete structure construction included in these plans. References to KDOT Concrete grades may be ignored.

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

Kansas One–Call	1–800–344–7233
	or 687–2470 (local Wichita)

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

At&t (telephone)	800–870–8390
Cox Communications (cable)	262–0661
Westar (electric)	383–8600
Kansas Gas Service (gas)	1–888–482–4950
City Of Wichita Water & Sewer Maint.	262–6000

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.

Construction staking shall be performed by the City of Wichita Public Works Department at no cost to the Contractor. The contractor shall coordinate the staking with the City and give 24 hours notice when stakes are required.

Utility service lines, poles, valve boxes, meters, etc., are to be adjusted as necessary by Others prior to construction unless the plans specifically call for their adjustment by the Contractor. Existing utilities and their locations, as shown on the plans represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The plan locations shown are not guaranteed. Additional existing utilities may also be encountered. All utilities on or supported by the bridge will remain in service during construction. The Contractor will be required to work around existing utilities within the right–of–way which do not conflict with proposed construction.

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 that, in the opinion of the engineer, 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 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 require additional archaeological investigations unless buried in a previously approved borrow location.

Saw cuts for the purpose of pavement removal shall conform to City of Wichita standard specifications. Saw joint to facilitate removal within three (3) feet of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint.

Crushed Rock Subgrade is to be compacted and smoothed with a steel faced roller prior to placement of pavement. Tack coat will not be applied to Rock Base.

Proposed curbs matching existing curbs shall be altered to match the shape and dimensions of the existing curb. Positive drainage shall be maintained through such transitions.

All Stationing, radii, pavement widths, offset distances, etc.., are measured to the back of the curb and gutter and along the project baseline unless otherwise noted on the plans. Spot elevations on plan sheets are at Back of Full–Height Curb and Gutter flow line. Spot elevations on details are as noted.

Pavement cross–slope transitions will be required where proposed pavement matches existing pavement. Transitions shall be made over an adequate length to prevent sumps from being created in gutters.

All gravel or other similar debris larger that ½ inch in diameter shall be raked up and removed during final grade preparation.

The project Horizontal Datum is based on the COW network scaled to ground using 1.000120014 and the Vertical Datum is NAVD 88. All coordinates and dimensions shown on these plans are modified to ground values.

When casting concrete adjacent to existing concrete and at all construction joints, the Contractor shall brush blast, power wash and water soak surface immediately prior to casting.

Contractor shall remove and deliver to 1801 S. McLean all regulatory and street name signs noted for removal during construction, and all removed manhole lids. All associated costs to transport the salvaged material will be subsidiary to the bid item "Transportation of Salvaged Materials".

The bid price for "Concrete Safety Barrier (Temporary)" shall include providing the barrier and include the cost of multiple installations and removals as necessary to allow construction of the project. Refer to the traffic control plans for the proper handling of traffic during these operations. The quantity of barrier noted in the recapitulation represents the maximum amount of barrier that will be needed for the set–up requiring the most barrier. Not all set–ups will necessarily require this amount of barrier.

A tack coat of emulsified asphalt (SC–1H or CSS–1H) shall be applied at an approximate rate of 0.05 gal. per square yard between each lift of bituminous material.

Bid Item A.C. Pavement 7" (5" Bit. Base):
Asphalt Cement for Bituminous material shall be PG 70–28 for Surface and PG 64–22 for Base Courses. BM–2 Aggregate shall be used in Surface and Base Courses.

All backfill for storm sewer trenches shall be in accordance with the City of Wichita's standard specifications. Backfill for storm sewer under existing or proposed pavement, including lines running parallel and adjacent to the back of curb, shall be jetted and vibrated sand. The sand fill shall be brought up uniformly to an elevation two feet below the bottom of the proposed pavement or 12 inches above the top of pipe whichever is higher. Cost for this backfill shall be paid on a linear foot basis as "Fill, Sand (Flushed & Vibrated)".

Storm sewer removals are noted on the paving plan sheet. Storm sewer removals will be paid for as "Pipe Removed" and "Inlet Removed". Removal of the existing inlets integral with the existing structure shall be subsidiary to the bid item "Removal of Existing Structures".

The existing AT&T duct bank in conflict with the proposed structure shall be removed by the Contractor to the minimum lengths necessary to allow construction of the proposed structure. The duct is abandoned and is a 9–cell interduct in a 3x3 array of 3.5" iron pipes encased in concrete. Removal is subsidiary to "Removal of Existing Structures".

All temporary asphalt paving items shall conform to the City of Wichita's SC–1 for surface courses and BC–1 for base courses.

Payment for "AC Pavement 6", Temporary will be measured per square yard of material placed. This bid item shall also include all work associated with preparation for placing the asphalt, constructing the rock base, constructing the temporary drainage flumes, grading, slope lining and the eventual removal of the temporary pavement and flumes. Payment for the asphalt curb will be paid for as "AC Curb 6", Temporary" and will include costs for it's eventual removal.

Bituminous Surface Course shall be placed with a laydown machine having automatic controls for line and grade.

Construction Joints in each lift shall be staggered a minimum distance of 12 inches from joints in preceding lifts and placed so that a joint will be constructed on the centerline of the top lift.

Inlet Hook–ups shall be constructed as indicated on the inlet detail drawings and shall be Bid as "Inlet Hookup". No distinction will be made between Hook–ups based on the size and type of inlet.

All areas disturbed by construction that are adjacent to developed properties shall be restored with sod in accordance with the plans. Restoration of disturbed areas shall include, but not be limited to, top soil preparation and sodding. All Sodding work shall be in accordance with City Standard Specifications and the City Administrative Regulation No. AR6.5, which governs cleanup and restoration or replacement following construction. The "Recapitulation of Quantities" shows the estimated Square Yards of Sodding, with a bid item for the same. When the weather/season prevents the installation of Sod, the Contractor shall be responsible for installing Erosion Control Blanket (Curlex I, or approved equal) at the Back of Curb (8' wide minimum). All costs for Erosion Mat installation shall be subsidiary to "Site Restoration".

The bid item "Field Office and Laboratory (Type A)" is included in both the 2nd Street project (472–85435) and the Douglas project (472–85436). Only one field office is necessary for both projects. The contractor shall bid this item accordingly. Any costs associated with relocating the field office between project sites shall be included in the bid price.

The Cast–in–Place and precast RCB shall have a bridge backwall protection system installed over the top surface of the entire structure between the headwalls and extended a minimum of one foot down the sides of the structure on each side. The system materials and installation shall conform to the 2015 edition of KDOT specification Section 724 and 1708 and shall be listed on KDOT's pre–qualification list. Install the system in accordance with manufacturer's recommendations. The cost to supply and install the system is subsidiary to the bid item "Pipe, SWS, RCBC (3–12' x 5')".

The contractor shall reseed all undeveloped areas disturbed by construction with a mixture of Ryegrass (applied at a rate of 200 lbs. per acre) and Buffalo grass, depending on the soil conditions (applied per Standard Specifications). Pure nitrogen fertilizer shall also be applied at a rate of 1.5 lbs. per thousand square feet. The seed shall be watered with a deep soaking every two (2) weeks during dry periods until a mature stand of grass is obtained. The "Recapitulation of Quantities" shows the estimated square yards of disturbed area to be seeded, with a bid item for the same. The permanent seeding may be omitted only if sodding is required. The contractor shall be responsible for installing Erosion Control Blanket (Curlex I, or approved equal) at the back of curb, to and including the limits of all seeded areas. All costs for this work shall be subsidiary to the seeding bid item.

See the Roadside Improvement Plans for delineation of seeding and sodding areas.

Select Soil (Topsoil) shall be placed at a minimum depth of 12 inches or as specified on the drawings. The finished grade indicates the surface elevation after the prescribed select soil (topsoil) thickness has been placed. Where offsite select soil is needed, it shall be fertile natural topsoil, typical of the locality, obtained from well drained areas. Stockpiled topsoil may be used. It shall be without admixture of subsoil or slag and shall be free of stones, lumps, sticks, plants, or their roots, toxic substances or other extraneous matter that may be harmful to plant growth or would interfere with future maintenance. Topsoil ph range shall be 5.5 to 7.0. Topsoil shall be approved by the Project Engineer prior to placement.

TREE PRESERVATION:
Existing trees to be saved are an important asset to this project. Tree removal shall require the approval of the engineer.

Equipment and construction materials shall remain out of and away from tree driplines so as to not compact the root zone or damage the tree. Chemical spill damage shall be prevented by filling gas tanks, cleaning tools & repairing equipment well outside tree protected root zones. Concrete mortar shall be mixed on a thick plastic tarp. Mixing trucks shall be rinsed out off site.

Any tree that must have branches removed shall be trimmed with sharp instrument/tool that is intended for such operations. Consult engineer prior to trimming. Knocking branches off with a back hoe or other similar machine is not acceptable! Refer to tree trimming detail on this sheet for trimming procedure.

Where root cutting is necessary on trees which are to remain, the roots shall be vertically cut with a sharp instrument or trencher prior to excavating soil around to roots.

PRECAST ALTERNATE:
The Contractor may elect to place Precast RCB sections, rather than using conventional Cast–In–Place construction methods. If this option is selected, the Contractor shall construct the ends of the structure, including wing walls using conventional Cast–In–Place methods in accordance with these plans. It is the Contractor's responsibility to provide a precast design, conforming to ASTM C1577 (latest edition), for the Engineer's review prior to construction. The alternate plans must accommodate original plan dimensions, and bear the seal and signature of a Professional Engineer licensed in the State of Kansas. Any additional costs associated with the alternate plan shall be at the Contractor's expense.

MANHOLE REHABILITATION:
The sanitary sewer manhole at Sta. 10+33.01, 33.19' Lt., is a 4' diameter precast concrete manhole approximately 10.9' deep. The contractor shall rehabilitate the existing manhole as follows:

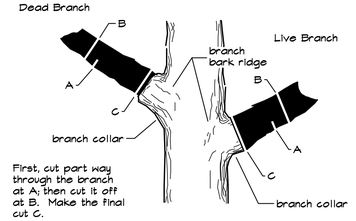
1. Clean the manhole and remove debris and corrosion build–up from the manhole.
2. Eliminate water infiltration entering the manhole around the 8" pipe via drilling and injecting a grout product specifically designed for this application. The injection grout shall be applied all the way around the manhole and should seal around the lowest wall joint and around all pipe openings in the wall.
3. Apply an approved manhole lining system.

Approved manhole lining systems:

- Raven 405
- Sauereisen 210S
- Spectrashield
- Warren Environmental S301
- Zebron
- Sherwin–Williams Dura–Plate 6100
- Sherwin–Williams Sherflex

All lining materials shall be applied per manufacturer's specification and recommended thickness for brick or precast manholes. Cleaning, filling of voids, removal of steps flush with the interior manhole surface, and other preparations to the manhole walls shall be included in the bid item for the lining. Mortar used to patch gaps in brick walls shall conform to City Standard Specifications.

After each rehabilitation step, the contractor shall obtain engineer approval before continuing to the next step. The contractor shall furnish all material, labor, equipment, dewatering, manhole cleaning and preparation, bypass pumping or other method of flow control and testing. All work will be paid for as "MH, Rehabilitated".



TREE TRIMMING DETAIL
NOT TO SCALE

MKEC
Wichita, KS • 316-684-9600

CONSTRUCTION PLANS FOR

DOUGLAS STREET BRIDGE AT BROOKSIDE

WICHITA, KS

GENERAL NOTES

PROJECT NO.	472-85436
DATE	JULY 2019
SCALE	#"=#'

DESIGNED	DRAWN	CHECKED
XXX	XXX	XXX

NO.	REVISION	DATE

SHEET NO.
2 OF 51