

SHEET NO.	TOTAL SHEETS
2	46

GENERAL NOTES

1. *Traffic Control, Roads and Bridge Loads*

A. Perform traffic control as necessary to encourage the safety of the public traveling near the project site. Traffic control shall meet the City of Wichita standards for this type of work site. A flagman is required at the crossing/construction entrance.

B. Coordinate with Federal, State and Local City representatives prior to transporting heavy equipment over local roads. Heavy equipment which exceeds the rated load capacity of any bridge (or crossing) shall be transported to the work site using an alternate high capacity access route to avoid all low capacity structures.

C. Prior to construction make a pre-project DVD of adjacent property conditions, including fence, yards, and pavement.

D. Avoid damaging roads and all private and public lands outside of the designated construction limits and access routes. The contractor shall provide necessary materials, labor, and equipment to make repairs (or replacement if needed) for damage caused by construction activity so as to return all damaged roads and structures to original(pre-project) condition. The contractor shall coordinate with adjacent landowners and the agency responsible for road maintenance to ensure an acceptable resolution of any such damages. Coordinate for city review and approval of such repairs prior to project completion.

2. A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts an existing surface course or pavement for which partial removal of that surface or pavement is required. Sawed joint to facilitate removal within three (3) feet of existing joints will not be permitted and for such instances the limits shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as subsidiary to the removal of the surface or pavement.

3. UTILITIES: Verify underground utility locations prior to any excavation work and take appropriate steps to protect all utilities from damage (See Contract Clauses). Advise and warn all crew members (including subcontracted personnel) of the location of utilities before allowing them to work on-site. Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to excavation or working adjacent to utilities. Kansas One-Call 687-2470

Utility service lines, poles, valve boxes, meters and etcetera 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 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. 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 at the Contractor's expense, by a licensed land surveyor or a licensed professional engineer in accordance with state laws. This work will not be paid for directly, but shall be considered subsidiary to other pay items of work in the contract.

5. Prior to bidding the project, each bidder shall visit the site and satisfy himself of surface & subsurface conditions. Each bidder shall also fully inform himself as to the extent of the scope of work to be performed.

6. The Contractor shall not start work on the Project until the Project Inspector is assigned and is present on site. Any work done without inspection will be required to be uncovered for inspection.

7. The Contractor shall give all property owners/tenants of developed property abutting the project limits a minimum of ten (10) days advance notice prior to start of construction.

8. Construction staking will be performed by the City of Wichita Public Works Department. The contractor must coordinate the survey staking with the City of Wichita Public Works Department and give the surveyor forty-eight (48) hours notice when stakes are required.

9. ACCESS / HAUL ROUTES: Provide as necessary at the approximate locations shown.

A. Maintain adequate ditch drainage at ditch crossings. Restore ditch banks to proper slope and alignment at the crossing at completion of work.

B. Restrict construction traffic to access routes shown. Provide grading with suitable fill and trafficable surface (3 inch rock typical) as needed to maintain trafficability during adverse weather. Be advised that the city is of the opinion that a trafficable road surface will be required along the access route during wet and muddy conditions. Access roads shall be of sufficient width (lane width) to safely operate equipment and / or haul trucks along the route under all-weather conditions, unless otherwise approved, access roads shall be minimum to 10 (ten) ft. wide.

C. Access roads shall be built with minimum practical disturbance to the existing topography and surrounding vegetation. Preserve existing positive sheet flow patterns across fields and access roads where ever so as to prevent the formation of ponding water. The city will allow some limited grading for steep or severely uneven areas. Limited ditching will be allowed in problem low areas along the access routes. Ditch depth shall not exceed 18 inches deep. Avoid causing erosion. The city may require the contractor to restore natural drainage patterns, or provide other restoration remedy, in any areas where grading or ditching creates field erosion, standing water, or extensive wet soil conditions.

10. TREE REMOVAL WALK THROUGH: Prior to and tree clearing or earthwork, the City and Contractor shall conduct a walk-through of the project site and access routes. Trees larger than 8" in diameter shall be field marked for removal. Contractor shall exercise care to protect the remaining trees and root systems.

11. FIELD SURVEY AND CONSTRUCTION MEASUREMENT LAYOUT:

A. Existing survey and baseline information is as indicated on sheet titled "KEY SHEET" survey was performed August 1991. Actual field conditions are known to vary as a result of ongoing erosion. Field adjust in coordination with the city.

B. Layout work: all structures (E.G. revetments, dikes, baffles, blankets, roots, windrow, etc.) shown are new work, excavate (where indicated). Prepare surface, and construct new rock fill structures to the overall dimensions. Elevations and cross sections shown and in accordance with the quantities as required by construction schedule. New work also includes the following:

12. CLEARING AND REMOVAL: Clear and remove debris, trees, logs, stumps, drift, excess excavated soil or other objectional items which impede construction (both exposed and underwater), or which will overhang the new work. The contractor shall provide for proper off-site disposal of all debris. Transport debris only after prior coordination with the city. Transport and dispose of debris in accordance with all applicable laws and regulations. Specific city approval during the preliminary walk-through is required prior to clearing and removal of any live trees other than those scheduled.

- A. Clearing / removal locations include but are not limited to:
- (1.) Utility relocation, as indicated.
 - (2.) Bankside and streambed areas where revetment construction and excavation is scheduled.
 - (3.) Access Lanes and turnaround areas.

13. All project waste including any trees, milled asphalt, rubble from miscellaneous structures, abandoned pipes, excess excavation & etc. 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.

14. OFF-SITE BORROW PIT & DESIGNATED OFF-SITE SPOIL (FILL) AREA:

A. An off-site soil borrow area is not anticipated as needed and is not provided by the city.

B. An off-site spoil area for clean excess excavation is anticipated as needed and is not provided by the city. Contractor is responsible for transporting and disposing of spoil off-site, in accordance with all applicable laws and regulations.

15. NEW WORK: All structures (E.G. revetments, dikes, baffles, blankets, roots, windrow, etc.) shown are new work. Excavate (where indicated), prepare surface, and construct new structures to the overall dimensions, elevations, and cross sections shown and in accordance with the quantities as required by construction schedule. New work also includes the following:

A. Clear, grade, and surface access ramps and routes. Keep safe distance from all slopes and weak zones. Access ramps and routes shall provide for safe transport of rock and equipment. Minimize segregation of rock (sizes) during transport and unloading operations. Free fall and rolling distance for rock dumping operations is limited to 12 ft. maximum, unless otherwise approved by the city.

B. Use appropriate equipment with adequate reach or hand place rock/blankets where necessary to obtain indicated thickness of revetment.

C. Ensure that a smoothly contoured waterline results along the new structures and the transition zones into natural bank material or existing structures. Ripples or eddies forming along the toe of new structures are unacceptable. Consult with city representative and make rock replacement adjustments if necessary to ensure a smoothly contoured waterline.

D. Do not alter channel gradient. Do not reduce nor restrict channel opening (beyond face of new revetment) at any time.

E. Water surface levels can vary from low flows of roughly 1 to 3 feet deep (along the construction footprint) to bank-full or higher depending on weather in upstream basin. Flooding may inundate work area.

F. Transport clean excess excavated material to designated on-site fill areas.

G. After completion of revetment, then rough grade the top area, to provide a stable slope for grass seeding, with the slope as generally shown on cross section sheets. Rake, gather, and dispose of any uncovered debris in accordance with the debris disposal note, finish contours shall provide for even sheet flow across the top of bank and revetments unless otherwise indicated -- do not allow concentrated flow areas (such as a ditch or swale) unless specifically shown in plans.

H. Unless otherwise stated or approved, construction of new revetments and dikes shall generally begin and complete in an upstream (First) to downstream (last) direction.

16. Contractor must implement erosion control methods during construction to prevent unnecessary silt/sediment discharge to downstream properties and/or storm sewer systems. Contractor will install and maintain erosion controls as shown on the plans or directed by the Engineer. These controls may include: hay bails, silt fences and other controls as approved by the City Engineer's office. Contractor must comply with the provisions of the City's Storm Water Pollution Prevention Ordinance.

17. Any tree that must have branches removed shall be trimmed with sharp instrument/tool that is intended for such operations. Consult with Design Engineer prior to trimming. Knocking branches off with a backhoe or other similar machine is not acceptable!

18. Perform tree and shrub planting and seeding per planting schedule specifications.

19. RESTORATION: At the conclusion of the project, restore all access points and haul roads to original condition. Then seed and mulch all exposed disturbed areas, according to specs.


20. Keep machinery out of water as much as possible.

21. Place all staged material on Geotextile fabric.

22. SITE PLAN NOTE: The footprint of new structures are shown superimposed on existing contours. Contours have not been redrawn to show finish elevation. See cross section sheets for finish elevations.

23. Remove all trees as indicated to complete project. All work shall be considered Subsidiary to clearing and grubbing.

24. Restrained Concrete Pipe shall be used for the greater of three (3) joints or twelve (12) linear feet measured from the Concrete Headwall.

CITY OF WICHITA JAMES ARMOUR, P.E., CITY ENGINEER		
GYPSUM CREEK GENERAL NOTES		
CITY OF WICHITA PROJECT NO. 468-82473		
 PARSONS BRINCKERHOFF <small>188. Wichita, Kansas</small>		
SCALE	DATE	DWG No.
—	10/30/2007	32158A