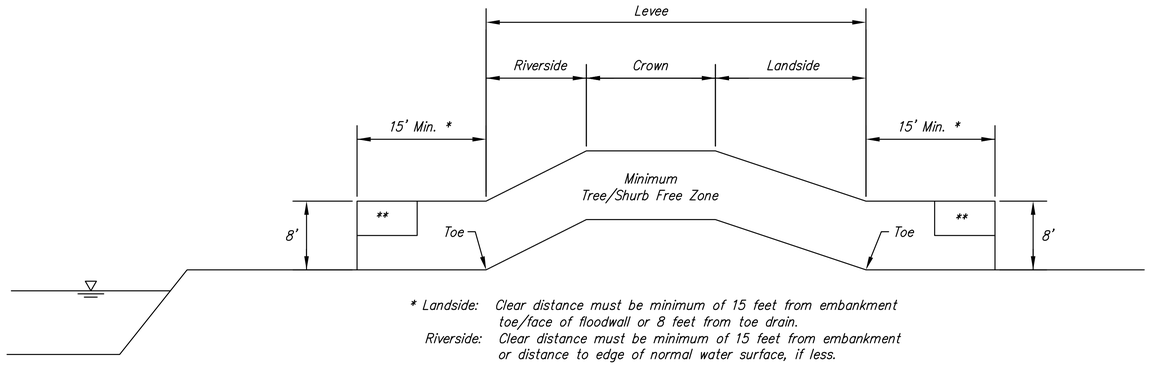
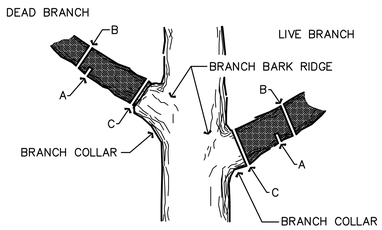
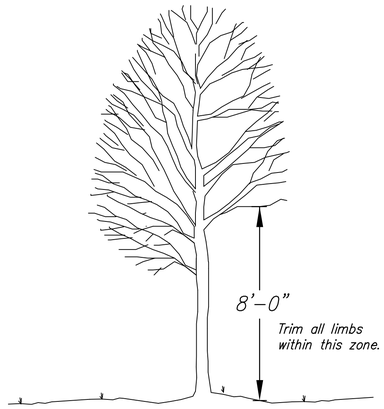


* Landside: Clear distance must be minimum of 15 feet from embankment toe/face of floodwall or 8 feet from toe drain.
Riverside: Clear distance must be minimum of 15 feet from embankment or distance to edge of normal water surface, if less.

** In this 4' x 7' Transition Zone, temporary obstruction by limbs and crown is allowed during development of new plantings, for up to 10 years.



FIRST, CUT PART WAY THROUGH THE BRANCH AT A; THEN CUT IT OFF AT B. MAKE THE FINAL CUT C.



TREE TRIMMING DETAIL
NOT TO SCALE

TREE REMOVAL NOTES:

Remove trees and any other undesirable woody vegetation within the 15 feet clear zone on each side of the existing or reconstructed levee in general accordance with USACE ETL 1110–2–571 "Guidelines For Landscape Planting and Vegetation Management At Floodwalls, Levees, Embankment Dams, And Appurtenant Structures," the project specifications, these notes, and Drawing SP–2.12. Measure the clear zone from the levee's toe, the land side of collection ditch, land side face of floodwall, or relief well, to the center of the tree trunk.

Determine the diameter of a tree by measuring the widest section of the tree trunk at a point 2 feet above the ground surface.

Cut trees and other woody vegetation having a trunk diameter less than 4 inches flush with the ground and treat the remaining exposed stump with herbicide containing Glyphosate (Roundup, Accord) or Triclopyr (Redeem) to prevent regrowth. Treat the entire cut surface by applying herbicide immediately after cutting. Following herbicide application, treat exposed surfaces with a protective coating similar to polyurethane that will prolong the decaying process.

Remove trees having a trunk diameter 4 inches and larger totally, including stump and root ball. Cut trees that are 4 inches and larger approximately 2 feet above the ground level leaving a prominent stump for use in the root ball extraction process. Protect and avoid damaging the existing embankment, overhead/buried utilities, conveyance structures, vegetation to remain, and nearby properties.

Grub stumps of all trees 4 inches in diameter and larger with the levee clear zone. Remove root balls by pulling the stump or extraction with appropriate excavation equipment. Special tree removal procedures are required for trees on levee crown or slopes; see Drawing SP–2.12 for details. Conce the root ball has been extracted, any remaining loose soil or remaining root system shall be removed from the cavity by excavating the root ball cavity with a horizontal bottom and maximum side slope of 1.0:1.5 (horizontal to vertical) as shown in the attached drawing.

Backfill all excavations with approved, Engineered Fill as specified in GRADING NOTES. Overfill all root ball cavities or excavations a minimum of 5 percent of fill depth to provide positive drainage and allow for settlement. Flowable Fill as specified in GRADING NOTES may be used to backfill excavations that are not located with the embankment.

Within the levee embankment slopes and crown, place approved backfill material in accordance with Compaction and Moisture Control as specified in GRADING NOTES except the maximum thickness of loose lifts shall be 6 inches. Verify compaction in accordance with Routine Density Tests as specified in GRADING NOTES.

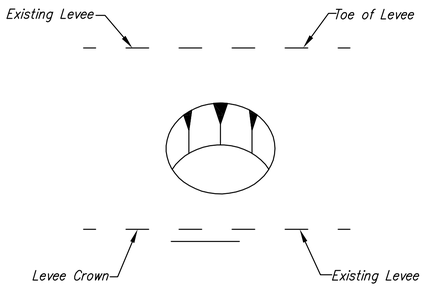
Outside the levee embankment, place approved backfill material in accordance with Compaction and Moisture Control as specified in GRADING NOTES. Verify compaction in accordance with Routine Density Tests as specified in GRADING NOTES.

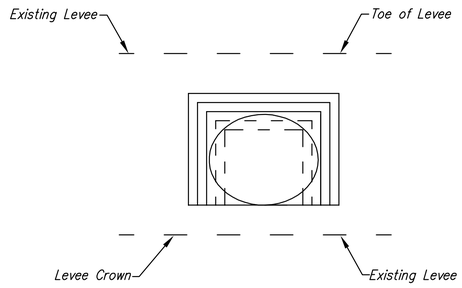
Grade and seed all areas disturbed by the construction activity. Prevent water from ponding on the levee or within the 15 feet clear zone and provide for positive drainage away from the levee. Restore grades in accordance with SITE RESTORATION NOTES and provide positive drainage of finished surface to prevent ponding of water.

Remove all woody debris, stumps, root balls, tree trunks, limbs, etc. from levee to approved disposal locations.

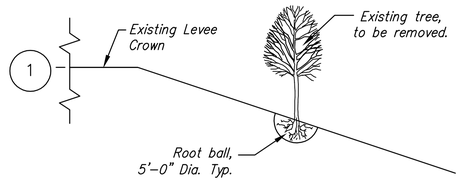
Tree removal will also be required to allow construction of new fence. Remove trees to provide clear space along fences for installation, access, and security. Grub all stumps for all trees that are in conflict with proposed improvements such as fences.

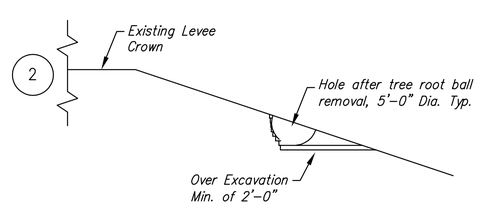
Any tree that must have branches removed shall be trimmed with sharp instrument/tool that is intended for such operations. Consult landscape architect prior to trimming. Knocking branches off with a back hoe or other similar machine is not acceptable! Refer to tree trimming detail on sheet SP–3.02 for trimming procedure.

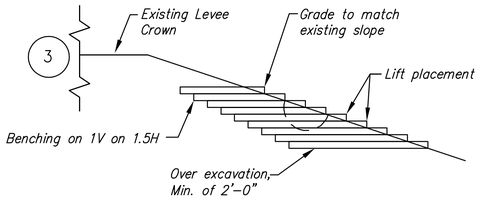


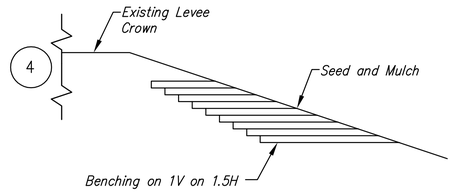


PLAN VIEW OF TREE REMOVAL
N.T.S.









TYPICAL TREE REMOVAL FROM EXISTING LEVEE – SEQUENCE OF WORK
N.T.S.

MARK	DESCRIPTION	DATE	APPR.

MKEC ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

CITY OF WICHITA

LEVEE 'S'
WICHITA-VALLEY CENTER LOCAL FLOOD PROTECTION PROJECT
WICHITA, KANSAS

PREPARED FOR
THE CITY OF WICHITA, KANSAS
455 N. MAIN STREET
WICHITA, KANSAS 67202

DESIGNED BY: JAY R. ANGLEMYER		DATE: 09/Oct/12
DWN BY: STAFF	CKD BY: STAFF	APP BY: JRA

FILE NAME: J:\Civil\07866\dwg\Details\07866 S-Tree Removal

MKEC PROJ. NO. 0701040866

LEVEE S
TREE REMOVAL PLAN

SP-3.02

SHEET 25 OF 64