

STATE	KDOT PROJECT NUMBER	YEAR	SHEET NUMBER	TOTAL SHEETS
KANSAS	54-87 K-8258-01	2007	314	556
			LS-9	

Plant Schedule

Quantity	Common Name	Botanical Name	Size	Specification	Typical Spacing
SHADE TREES					
10	Autumn Blaze Maple	<i>Acer x freemani 'Autumn Blaze'</i>	2" -2 1/2" Cal	B&B	9.1 m (30') o.c. min
13	Goldenrain Tree	<i>Koelreutaria paniculata</i>	2" -2 1/2" Cal	B&B	7.6 m (25') o.c. min
24	Black Hills Spruce	<i>Picea glauca var. densata</i>	7'-8' height	B&B	4.6 m (15') o.c. min
12	Austrian Pine	<i>Pinus nigra var. nigra</i>	7'-8' height	B&B	6.1 m (20') o.c. min
29	Chinese Pistache	<i>Pistacia chinensis</i>	2 1/2" -3" Cal	B&B	7.6 m (25') o.c. min
9	Sawtooth Oak	<i>Quercus acutissima</i>	2" -2 1/2" Cal	B&B	7.6 m (25') o.c. min
2	Swamp White Oak	<i>Quercus bicolor</i>	2" -2 1/2" Cal	B&B	9.1 m (30') o.c. min
13	Lacebark Elm	<i>Ulmus parvifolia</i>	2" -2 1/2" Cal	B&B	9.1 m (30') o.c. min
112	Total Shade Trees				
ORNAMENTAL TREES					
18	Amur Maple	<i>Acer ginnala</i>	2" -2 1/2" Cal	B&B	4.9 m (16') o.c. min
18	Eastern Redbud	<i>Cercis canadensis</i>	2" -2 1/2" Cal	B&B	4.9 m (16') o.c. min
17	Canaert Juniper	<i>Juniperus virginiana 'Canaertii'</i>	6'-7' height	B&B	3.0 m (10') o.c. min
7	Centurion Crabapple	<i>Malus sp. 'Centurion'</i>	1 3/4" -2" Cal	B&B	4.9 m (16') o.c. min
20	Royal Raindrops Crabapple	<i>Malus sp. 'Royal Raindrops'</i>	1 3/4" -2" Cal	B&B	4.9 m (16') o.c. min
8	Capital Pear	<i>Pyrus calleryana 'Capital'</i>	2" -2 1/2" Cal	B&B	3.7 m (12') o.c. min
29	Chanticleer Pear	<i>Pyrus calleryana 'Chanticleer'</i>	2" -2 1/2" Cal	B&B	5.5 m (18') o.c. min
117	Total Ornamental Trees				
SHRUBS					
140	Flowering Quince 'Texas Scarlet'	<i>Chaenomeles speciosa 'Texas Scarlet'</i>	2 gallon	Container	1.8 m (6'-0") o.c.
18	Dwarf Burningbush	<i>Euonymus alatus 'Compactus'</i>	5 gallon	Container	2.4 m (8'-0") o.c.
177	Manhattan Euonymus	<i>Euonymus kiautschovicus 'Manhattan'</i>	2 gallon	Container	1.5 m (5'-0") o.c.
64	Dwarf Sweetpire 'Little Henry'	<i>Itea ilicifolia 'Little Henry'</i>	2 gallon	Container	1.5 m (5'-0") o.c.
194	Kallay Compact Pfitzer Juniper	<i>Juniperus chinensis 'Kallay'</i>	5 gallon	Container	2.1 m (7'-0") o.c.
35	Sea Green Juniper	<i>Juniperus chinensis 'Sea Green'</i>	5 gallon	Container	2.4 m (8'-0") o.c.
23	Compact Andorra Juniper	<i>Juniperus horizontalis 'Compact Andorra'</i>	2 gallon	Container	1.8 m (6'-0") o.c.
91	Broadmoor Juniper	<i>Juniperus sabina 'Broadmoor'</i>	2 gallon	Container	2.1 m (7'-0") o.c.
84	Yukon Belle Pyracantha	<i>Pyracantha angustifolia 'Yukon Belle'</i>	5 gallon	Container	2.4 m (8'-0") o.c.
89	Lowboy Pyracantha	<i>Pyracantha coccinea 'Lowboy'</i>	5 gallon	Container	1.8 m (6'-0") o.c.
11	Gro-low Sumac	<i>Rhus aromatica 'Gro-low'</i>	2 gallon	Container	1.1 m (3'-6") o.c.
12	Radcon Knock Out Rose	<i>Rosa sp. 'Radcon'</i>	2 gallon	Container	1.4 m (4'-6") o.c.
21	Radrazz Knock Out Rose	<i>Rosa sp. 'Radrazz'</i>	2 gallon	Container	1.4 m (4'-6") o.c.
123	Red Flower Carpet Rose	<i>Rosa sp. 'Red Flower Carpet'</i>	2 gallon	Container	1.4 m (4'-6") o.c.
36	Neon Flash Spirea	<i>Spiraea japonica 'Neon Flash'</i>	2 gallon	Container	1.1 m (3'-6") o.c.
112	Anthony Waterer Spirea	<i>Spiraea x bumalda 'Anthony Waterer'</i>	2 gallon	Container	1.4 m (4'-6") o.c.
46	Willowwood Viburnum	<i>Viburnum x rhytidophylloides 'Willowwood'</i>	5 gallon	Container	2.4 m (8'-0") o.c.
1136	Total Shrubs				
ORNAMENTAL GRASSES					
160	Maidengrass Gracillimus	<i>Miscanthus sinensis 'Gracillimus'</i>	1 gallon	Container	1.1 m (3'-6") o.c.
67	Dwarf Chinese Fountain Grass	<i>Pennisetum alopecuroides 'Hameln'</i>	1 gallon	Container	1.6 m (2'-0") o.c.
227	Total Ornamental Grasses				

Note: In case of a discrepancy between the Plant Schedule and the Plans, the Plans shall govern.

Turf Schedule

Item	Quantity			Notes
	(Metric)	(English)	(English)	
K-31 Fescue Seed — Non-Irrigated	0.24 HA	2,440 SM	2,917 SY	See City Standard Specifications
Fescue Sod — Irrigated	1.40 HA	13,964 SM	16,694 SY	See City Standard Specifications
Bermuda Sod — Non-Irrigated	0.71 HA	7,149 SM	8,547 SY	See City Standard Specifications
Totals	2.36 HA	23,552 SM	28,158 SY	
<i>Bermuda Sod — Repair Damage</i>	<i>0.62 HA</i>	<i>6,211 SM</i>	<i>7,426 SY</i>	<i>Area in which repairs MAY be required. For information only.</i>

Note: In case of a discrepancy between the Turf Schedule and the Plan, the Plan shall govern.

Landscaping Materials Schedule

Item	Quantity		Notes
	(Metric)	(English)	
Topsoil	5,950 CuM	7,784 CY	102 mm (4") depth for turf, and 305 mm (1') depth for plant beds, plus 15% settling allowance, installed
Soil amendment (Cotton Bur Compost)	16 CuM	549 CF	See Landscaping Specifications
Fertilizer (Milorganite)	818 KG	1,800 LBS	See Landscaping Specifications
Single-ground Hardwood Mulch	927 CuM	1,213 CY	102 mm (4") depth, installed
<i>Area of Plant Beds to be Mulched</i>	<i>0.91 Ha</i>	<i>2.25 acres</i>	<i>9,088 SM</i>
Steel Edging	1,774 LM	5,821 LF	Installed
Gravel Mulch / Geotextile	27 SM	287 SF	Installed; includes 40% allowance for existing concrete pads
Decorative Paving	2,245 SM	24,154 SF	Installed
Concrete Mowing Strip	212 SM	2,286 SF	Installed
Concrete Seat Wall / Retaining Wall	13 LM	43 LF	Installed
Concrete Retaining Curb	55 LM	180 LF	Installed
Asphalt	45 SM	484 SF	Installed

Note: In case of a discrepancy between the Landscaping Materials Schedule and the Plan, the Plan shall govern.

Landscaping Specifications

General

- The Contractor shall provide all plants, grass, materials, labor and equipment required for a complete project. In the case of discrepancies between the plans and specifications, the plans shall govern. Specifications herein shall supersede those of KDOT and the City of Wichita. The Landscaping and Irrigation Standard Specifications of the City of Wichita shall otherwise apply.
- Prior to planting operations, the Contractor shall determine locations of existing underground utilities. Should a grade difference, utility conflict or obstruction to planting operations occur, the Contractor shall notify the Engineer prior to commencing work in the area. Contact Kansas One Call (1-800-344-7233) for flagging.
- The Contractor shall be responsible for providing soil and grading for berms and for finish grading prior to grass installation and planting operations. Cap turf areas with 102 mm (4") of topsoil to meet finish elevations in turf areas. Planting bed areas shall receive 0.3m (12") of topsoil to meet finish elevations.
- Soil fill in lower level planters (east of Rock Road) shall be carefully inspected by Engineer for suitability to install and establish plant materials. Fill soil shall be free of compacted clay subsoil, stones, clods of hard earth greater than 76 mm (3"), plants or their roots, sticks, construction debris or other deleterious matter. When fill soil is found to be unacceptable, planting operations shall cease until acceptable material is placed.
- Prior to the start of final grading, the Contractor shall disk and/or spray to kill weeds and grass in planting bed and turf areas. Noxious weeds (i.e. bindweed) and invasive grasses (i.e. bermuda) shall be sprayed with as many applications as required for complete kill.
- Notify Engineer of areas having poor drainage (i.e. <2%) detrimental to plant or turf establishment and growth. Engineer shall advise Contractor on methods to correct conditions.
- Contractor shall restore finish grades in all landscape areas (per roadway plans) which may have been disturbed during planting operations.
- All plant quantities provided in the summary tables are provided for Contractor convenience. Should a discrepancy occur, the Contractor shall provide the quantity of plantings shown on the planting layout plan to fill out the designated planting area at the specified spacing.

Materials

- Topsoil** shall be fertile, friable, natural loam with a *ph* of 5.5 to 7.0 and capable of sustaining vigorous plant growth. It shall be free of subsoil, stones, clods of hard earth, plants or their roots, sticks, or other extraneous matter. It shall not be installed while in a frozen or muddy condition.

Soil Amendment shall be an approved cotton bur compost product.

Pre-emergent weed control shall be Dacthal, Treflan, or approved similar product.

Steel Edge shall be Ryerson or approved equal. Size to be 3 mm x 102 mm x 4877 mm (1/8" x 4" x 16").

Tree Wrap shall have two thicknesses of crinkled paper, cemented together with bituminous material. Wrap shall be 102 mm (4") wide, having qualities to resist insect infestation.

Mulch shall be a single ground hardwood type free of dirt, rocks, weeds, and other deleterious material.

Fescue Seed shall be Fescue K-31 Grass Seed, as per City of Wichita Standard Specifications, Section 902.

Grass Sod shall be selected and installed as per City of Wichita Standard Specifications, Section 903.

- Each tree, shrub and ornamental grass delivered to the site shall be identified and tagged with its common name.
- Contractor shall submit, for each seed mix, an itemized listing of included seed varieties, with certified germination and purity results for each.

Execution

Items 1 through 8 shall be subsidiary to planting.

- All landscape areas, including turf areas, shall have the existing subgrade loosened to a 305 mm (12") minimum depth by use of ripper equipment or other equivalent means, prior to placement of select soil to finish grades specified on plans, and planting materials.
- Contractor shall provide a soil analysis(es) from typical soil conditions before the start of work. Analysis shall at minimum include the soil type, *ph*, ratios of nitrogen, phosphorous, and potassium and percentage of organic matter. Engineer shall review and advise the Contractor on methods to correct conditions detrimental to landscape installation and establishment.
- Apply **Soil Amendment** at the rate of four parts soil from excavation to one part cotton bur compost for planting backfill.
- Apply **Milorganite Fertilizer** (see Standard Specifications) at the following rates:
 - Shrubs**
 - 1 and 2 gallon container — 1/2 lb. each
 - 5 gallon container — 3/4 lb. each
 - Trees**
 - 1/2 lb. per foot of height
 Incorporate fertilizer uniformly throughout backfill of each planting hole.
- Apply **Pre-emergent** to soil surface before placing mulch. Apply at Manufacturer's recommended rate for product supplied. Do not apply to top of plant root balls.
- Install **Steel Edge** to form a smooth curve as indicated on the plans. The installation of edging and planting work shall not block the natural drainage of water. Install and stake per Manufacturer's recommendations.
- Securely apply **Tree Wrap** from ground level to second level of branches on the trunk. Use wrap on the following trees: Autumn Blaze Maple, Centurion Crabapple, and Purple Prince Crabapple.
- Mulch** in planting beds and around trees shall be loosely applied at a minimum depth of 102 mm (4").
- Place turf / trees to clear adjacent construction according to the following criteria:
 - Turf between planting beds and curbs — 2.13 m (7') minimum
 - Small trees to walls — 1.52 m (5') from trunk
 - Medium trees to walls — 2.13 m (7') from trunk
 - Medium trees to curbs — 3.05 m (10') from trunk
 - Large trees to walls — 3.05 m (10') from trunk
 - Large trees to curbs — 4.57 m (15') from trunk

Small Trees: Amur Maple, Redbud, Canaert Juniper, Crabapples, Pears
Medium Trees: Goldenrain, Black Hills Spruce, Chinese Pistache, Sawtooth Oak
Large Trees: Autumn Blaze Maple, Austrian Pine, Swamp White Oak, Lacebark Elm

10. No seeding materials shall be applied to shrub planting areas and mulched areas.

11. Ornamental grasses shall only be planted from April 15th to May 15th.

Bid Items

Contractor shall provide unit pricing for following bid items:

Item — Unit Measure
 Irrigation System — Lump Sum
 Deciduous Trees
 • 1-3/4" to 2" caliper — each
 • 2" to 2-1/2" caliper — each
 • 2-1/2" to 3" caliper — each
 Evergreen Trees
 • 6' to 7' Height — each
 • 7' to 8' Height — each
 Shrubs
 • 2 gallon container — each
 • 5 gallon container — each
 Ornamental Grasses
 • 1 gallon container — each
 Mulch (Planting Beds) — ha.
 Steel Edging — L.M.
 Fescue Seed — Kg.
 Fescue Sod — SM
 Bermuda Sod — SM

All other specified items shall be subsidiary to the above unit price bid items. See plan sheets for quantities.

Acceptance / Maintenance / Guarantee / Payment

See Landscaping and Irrigation Standard Specifications of the City of Wichita.

CHECKED BY	DATE
DWF	07/24/06
DWF	10/04/06

Drawn by: DJF
 File: 103001_kellogg/rock
 Plotted: 10/06/06
 SCALE: 1:500



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KANSAS DEPARTMENT OF TRANSPORTATION

LANDSCAPE EAST KELLOGG SCHEDULES & SPECIFICATIONS

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