STATE	PROJECT NO.	YEAR	SHEET NO.	SHEETS
KANSAS	87 N-0351-01	2012	134	220

GENERAL NOTES

1. CONTRACTOR SHOULD MAKE THEMSELVES FAMILIAR WITH THE PLANS AND ALL NOTES BEFORE BIDDING THIS PROJECT. C.O.W. SPECIFICATIONS SHALL APPLY. THE NOTES AND DETAILS ON THIS SHEET SHALL TAKE PRECEDENCE OVER C.O.W. SPECIFICATIONS WHEN IN CONFLICT.

2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE TREES TO BE PROTECTED AREAS AND IDENTIFY THEM IN THE FIELD PRIOR TO ANY SITE WORK.

3. LANDSCAPE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES (INCLUDING THOSE INDICATED ON THE PLAN) PRIOR TO INSTALLATION OF PLANT MATERIAL. UTILITIES CAN BE FLAGGED BY CALLING 687-2470.

4. NO SITE WORK OR CONSTRUCTION ACTIVITIES MAY OCCUR OUTSIDE OF THE LIMITS OF DISTURBANCE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. TREE PROTECTION FENCES MUST REMAIN INTACT AND IN PLACE DURING SITE WORK.

5. ALL WATER REQUIRED FOR LANDSCAPE OPERATIONS AND FOR ESTABLISHING LANDSCAPE ON THIS SITE WILL BE PROVIDED BY THE CONTRACTOR.

6. ALL LANDSCAPE PLANTS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING INITIAL ACCEPTANCE. DEAD OR DEFICIENT PLANTINGS SHALL BE ACCEPTABLY REPLACED, IN PROPER PLANTING SEASON, ONE TIME AT NO COST TO THE OWNER. SOD, AND HYDROSEED AREAS MAY BE FINAL ACCEPTED AT TIME OF COMPLETION OF ESTABLISHMENT (SEE NOTES ABOVE), WITH NO FURTHER GUARANTEE REQUIRED.

7. THE STATION AND OFFSET FOR EACH PROPOSED PLANTING IS APPROXIMATE AS SHOWN ON THE ROADSIDE IMPROVEMENT PLAN. PLANTING MAY NEED TO BE FIELD ADJUSTED SLIGHTLY TO AVOID CONFLICT WITH EXISTING OR PROPOSED FEATURES.

8. ALL GRAVEL OR OTHER SIMILAR DEBRIS LARGER THEN 1/2 INCH IN DIAMETER SHALL BE RAKED UP AND REMOVED BEFORE ANY SODDING OR SEEDING OPERATIONS ARE PERFORMED. SOIL SHALL BE PREPPED AND SMOOTHED NEATLY TO REMOVE ALL FOREIGN SUBSTANCES AND TO ELIMINATE WATER PONDING LOW SPOTS.

9. THE PLANTING SOIL MIXTURE FOR ALL TREE PLANTINGS SHALL BE SOIL EXCAVATED FROM THE HOLE.

10. 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, 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.

11. ALL TREE SAUCERS AND PLANTING BEDS ARE TO BE MULCHED WITH A MINIMUM OF 3" GRADE A SHREDDED CEDAR MULCH. SUBMIT 1 GALLON SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION. WHERE PLANTING BEDS ARE ADJACENT TO WALKS AND CURBS THE SOIL LEVEL SHALL BE 3" LOWER TO ALLOW FOR MULCH LAYER. WHERE SOD IS INDICATED, ITS THICKNESS SHALL ALSO BE ACCOUNTED FOR SO THAT THE SOIL SURFACE IN THE SOD MATCHES IN LEVEL WITH THE LANDSCAPE SURFACE.

12. MULCH, STAKES, GUY WIRE, PRE EMERGENT HERBICIDES, ETC. SHALL BE SUBSIDIARY TO INDIVIDUAL PLANTS.

13. THE CONTRACTOR SHALL FLAG AND LABEL PROPOSED PLANT LOCATIONS AFTER UTILITY LOCATE AND GAIN APPROVAL OF LOCATIONS FROM LANDSCAPE ARCHITECT PRIOR TO BRINGING PLANTS TO THE SITE.

14. PROVIDE QUALITY, SIZE, SPECIES AND VARIETY OF LANDSCAPE PLANTS INDICATED COMPLYING WITH APPLICABLE REQUIREMENTS IN THE ANSI Z60.1 MAY 12, 2004 "AMERICAN STANDARD FOR NURSERY STOCKS"

15. FURNISH NURSERY GROWN TREES CONFORMING TO ANSI Z60.1, WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. TREES OF A LARGER SIZE MAY BE USED IF ACCEPTABLE TO OWNER, WITH A PROPORTIONATE INCREASE IN SIZE OF ROOTS OR BALLS.

16. CONTRACTOR OR PLANT SOURCE PROVIDER SHALL PROVIDE TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. A SINGLE HIGH QUALITY DIGITAL PICTURE OF EACH TREE SPECIES THAT REPRESENTS ONE OF THE ACTUAL TREES SELECTED FOR DELIVERY. EACH PICTURE SHALL INCLUDE A SCALABLE OBJECT OR MEASURING ROD IN THE IMAGE.

17. LABEL EACH TREE WITH A SECURELY ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAME.

18. SHADE TREES: SINGLE-STEM TREES, UNLESS SPECIFIED OTHERWISE, WITH STRAIGHT TRUNK, WELL BALANCED CROWN, AND INTACT LEADER, OF HEIGHT AND CALIPER INDICATED, CONFORMING TO ANSI Z60.1 FOR TYPE OF TREES REQUIRED.
BRANCHING HEIGHT: 1/3 TO 1/2 OF TREE HEIGHT
CENTRAL LEADER: 12' TREE HEIGHT - MIN 5' LEADER, 10' TREE - MIN 4' LEADER

19. SMALL TREES: SMALL UPRIGHT OR SPREADING TYPE, BRANCHED OR PRUNED NATURALLY ACCORDING TO SPECIES AND TYPE AND WITHIN RELATIONSHIPS OF CALIPER, HEIGHT, AND BRANCHING RECOMMENDED BY ANSI Z60.1.

20. WRAP ALL PROPOSED HONEYLOCUST TREES WITH TRUNK-WRAP TAPE. START AT BASE (BOTTOM) OF TRUNK AND SPIRAL COVER TRUNK TO HEIGHT OF FIRST BRANCHES. OVERLAP WRAP EXPOSING HALF OF THE WIDTH AND SECURELY ATTACH WITHOUT CAUSING GIRDING. INSPECT TREE TRUNKS FOR INJURY, IMPROPER PRUNING, AND INSECT INFESTATION. TAKE CORRECTIVE MEASURES REQUIRED BEFORE WRAPPING.

21. STAKES AND GUYING SHALL BE REMOVED BY THE CONTRACTOR AT THE END OF ONE FULL GROWING SEASON.

22. ANY TOPSOIL NEEDED TO CORRECT SOIL LEVELS IN SUMP AREAS WITHIN THE R.O.W. 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.

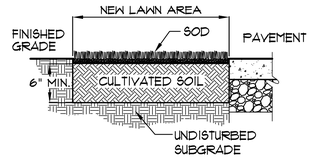
23. SUBSTITUTION OF PLANT SPECIES TYPES FOR THOSE LISTED IN THE PLANT LIST IS NOT PERMISSIBLE UNLESS APPROVED BY MKEC (316-684-9600). IN WRITING PRIOR TO BIDDING ANY SPECIES SUBSTITUTION WHICH HAS NOT BEEN APPROVED SHALL BE REMOVED IMMEDIATELY AND REPLACED WITH THE CORRECT PLANT.

24. THE CONTRACTOR SHALL TAKE CARE SO AS TO NOT DAMAGE ANY EXISTING TREES. THE CONTRACTOR SHALL KEEP EQUIPMENT OUT OF AND AWAY FROM EXISTING TREE DRIP LINES.

25. AREAS BEYOND THE BACK OF CURB SHALL BE SEEDED UNLESS OTHERWISE NOTED

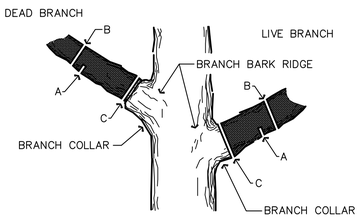
26. CONDUCT PLANTING UNDER FAVORABLE WEATHER CONDITIONS DURING EITHER THE SPRING PLANTING SEASON (MARCH 1ST-JUNE 1ST), OR THE FALL PLANTING SEASON (SEPTEMBER 30 UNTIL FREEZING OF THE GROUND). DEVIATION FROM THE ABOVE PLANTING DATES WILL ONLY BE PERMITTED WITH APPROVAL FROM THE LANDSCAPE ARCHITECT.

27. CONTRACTOR TO PROVIDE AND INSTALL IRRI-'GATOR' SLOW DRIP IRRIGATION BAGS FOR EACH TREE.



SOD INSTALLATION
NOT TO SCALE

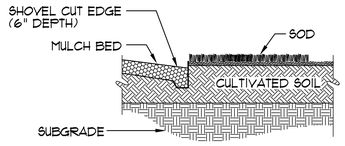
SOD INSTALLATION NOTES:
1. FINISHED GRADES SHALL BE ACCURATE.
2. CULTIVATE ENTIRE AREA TO A MINIMUM 4" DEPTH. EXCEPTIONS TO AREAS MAY BE MADE IF TREE ROOTS ARE ENCOUNTERED WITHIN THE DRIPLINE OF EXISTING TREES. HAND RAKE SMOOTH.
3. ADD ADDITIVES (AS PER SOIL TEST RECOMMENDATIONS) AND TILL INTO SOIL.
4. LAY AND ROLL SOD. WATER THOROUGHLY.
5. STAGGER JOINTS AND BUTT JOINTS TOGETHER TIGHTLY.
6. STAKE SOD ON SLOPES 4:1 OR STEEPER.



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

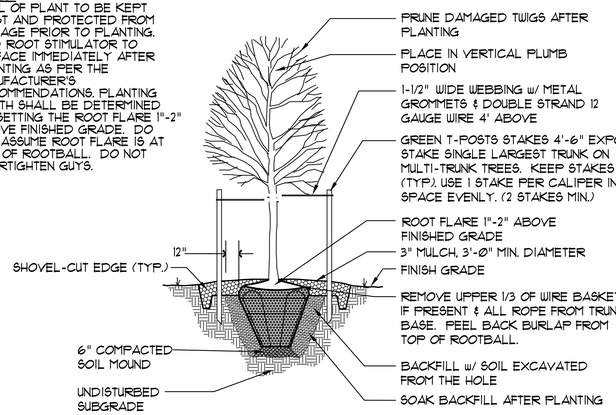
TREE TRIMMING DETAIL
NOT TO SCALE

NOTE: MOUND BEDS 3" HIGHER THAN TURF WHEN BEDS ARE ADJACENT TO TURF



SHOVEL CUT EDGE
NOT TO SCALE

NOTES:
BALL OF PLANT TO BE KEPT MOIST AND FROTECTED FROM DAMAGE PRIOR TO PLANTING. ADD ROOT STIMULATOR TO SURFACE IMMEDIATELY AFTER PLANTING AS PER THE MANUFACTURER'S RECOMMENDATIONS. PLANTING DEPTH SHALL BE DETERMINED BY SETTING THE ROOT FLARE 1"-2" ABOVE FINISHED GRADE. DO NOT ASSUME ROOT FLARE IS AT TOP OF ROOTBALL. DO NOT OVERTIGHTEN GUYS.



TREE PLANTING DETAIL
NOT TO SCALE

NOTES:
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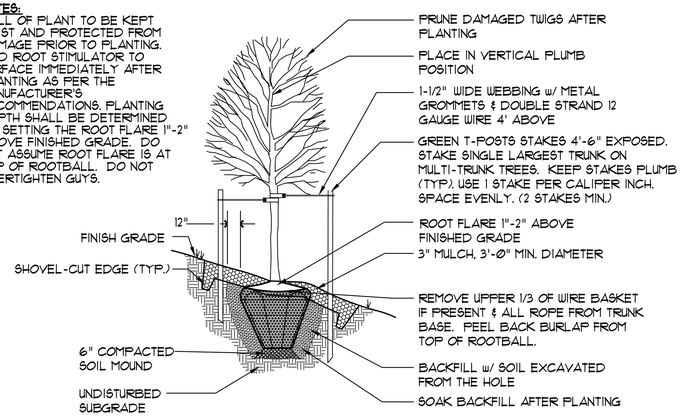
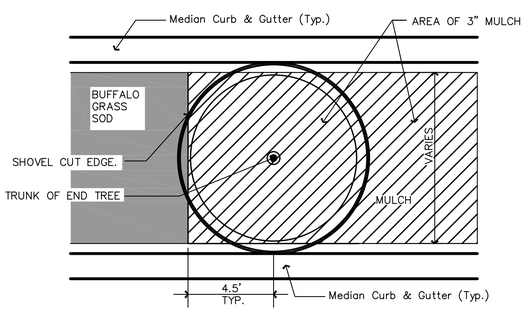


TREE PLANTING AT SLOPE
NOT TO SCALE



PLAN DETAIL - TREE PLANTING IN MEDIAN
NOT TO SCALE

PLANT SCHEDULE

KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE & METHOD OF HANDLING	REMARKS
DECIDUOUS SHADE TREES					
	25	PRINCETON ELM	ULMUS AMERICANA 'PRINCETON'	2" CAL. / B&B	Min. spacing
	21	SAWTOOTH OAK	QUERCUS ACUTISSIMA	2" CAL. / B&B	6'-Ø" behind
	19	TEXAS RED OAK	QUERCUS BUCKLEYI	2" CAL. / B&B	back of curb
	54	CATALPA	CATALPA SPECIOSA	2" CAL. / B&B	(Typ.)
	29	'SUMMER SPLENDOR' TATARIAN MAPLE	ACER TATARICUM 'SUMMER SPLENDOR'	2" CAL. / B&B	
	48	TEXAS WHITEBUD	CERCIS CANADENSIS VAR. TEXENSIS 'TEXAS WHITE'	2" CAL. / B&B	

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

CENTRAL AVENUE
IMPROVEMENTS FROM
135TH ST. W. TO 119TH ST. W.

ROADSIDE IMPROVEMENT DETAILS

SHEET TITLE

472-84017
PROJECT NUMBER

JAG
DESIGN BY
DPG
DRAWN BY
JRA
CHECKED BY

ISSUED
November 9, 2012
REVISED

SHEET NO.
134 of 220

PLOTTED: Wednesday, November 14, 2012 @ 02:43PM
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