

NAME / COMMON NAME	<u>CONT</u>	<u>CAL</u>	<u>SIZE</u>	
EMANII 'JEFFSRED' / AUTUMN BLAZE MAPLE	В&В	1.5"CAL	10'-12' HT.	
BA 'PRINCETON SENTRY' / PRINCETON SENTRY GINKGO	В&В	1.5"CAL	10'-12' HT.	
RIACANTHOS INERMIS 'SHADEMASTER' TM / SHADEMASTER LOCUST	B & B	1.5"CAL	10'-12' HT.	
RIACANTHOS 'SKYLINE' / SKYLINE HONEY LOCUST	B & B	1.5"CAL	10 [°] —12° HT.	
COLOR / SWAMP WHITE OAK	B & B	1.5"CAL	10'-12' HT.	
ACROCARPA / BURR OAK	B & B	1.5"CAL	10'-12' HT.	
JBRA / RED OAK	B & B	1.5"CAL	10'-12' HT.	
TA 'GREENSPIRE' / GREENSPIRE LITTLELEAF LINDEN	В&В	1.5"CAL	10'-12' HT.	
RICANA 'PRINCETON' / AMERICAN ELM	B & B	1.5"CAL	10'-12' HT.	
NAME / COMMON NAME	CONT	<u>CAL</u>	<u>SIZE</u>	
/IRGINIANA 'CUPRESSIFOLIA' / HILLSPIRE JUNIPER	B & B		6' HT	
NAME / COMMON NAME	<u>CONT</u>	<u>CAL</u>	<u>SIZE</u>	
R X GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	B & B	1"CAL	8'-10' HT.	
ADENSIS / EASTERN REDBUD	B & B	1"CAL	8'-10' HT.	
TICULATA / JAPANESE TREE LILAC	В&В	1"CAL	8'-10' HT.	
NAME / COMMON NAME	<u>SIZE</u>	FIELD2	FIELD3	
IERICANA / AMERICAN HAZELNUT	#5 CONT.			
ALATUS 'COMPACTUS' / COMPACT BURNING BUSH	#5 CONT.			
CHINENSIS 'GOLD COAST' TM / GOLD COAST JUNIPER	#5 CONT.			
CHINENSIS 'SEA GREEN' / SEA GREEN JUNIPER	#5 CONT.			
SABINA 'BROADMOOR' / BROADMOOR JUNIPER	#5 CONT.			
LUCIDUM / GLOSSY PRIVET	#5 CONT.			
ATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	#5 CONT.			
UM / ALPINE CURRANT	#5 CONT.			
DTKO' / DOUBLE KNOCK OUT ROSE	#5 CONT.			
CANADENSIS / ELDERBERRY	#5 CONT.			
TULA 'MISS KIM' / MISS KIM LILAC	#5 CONT.			
DIA 'DENSIFORMIS' / DENSE YEW	#5 CONT.			
DIA 'HICKSII' / HICKS YEW	#5 CONT.			
ARLESII / KOREAN SPICE VIBURNUM	#5 CONT.			
NAME / COMMON NAME	<u>SIZE</u>	FIELD2	FIELD3	
STIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	#1 CONT.			
ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS	#1 CONT.			
NAME / COMMON NAME	<u>CONT</u>	FIELD2	FIELD3	<u>SPACING</u>
R ADPRESSUS / CREEPING COTONEASTER	#SP1			36" o.c.
FORTUNEI 'COLORATA' / PURPLE-LEAF WINTER CREEPER	#SP1			36" o.c.
IX / ENGLISH IVY	#SP1			36" o.c.
R / COMMON PERIWINKLE	#SP1			36"o.c.



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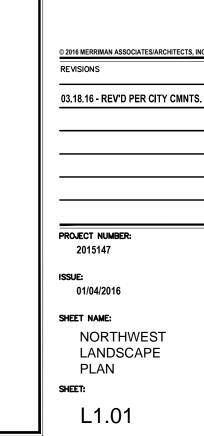
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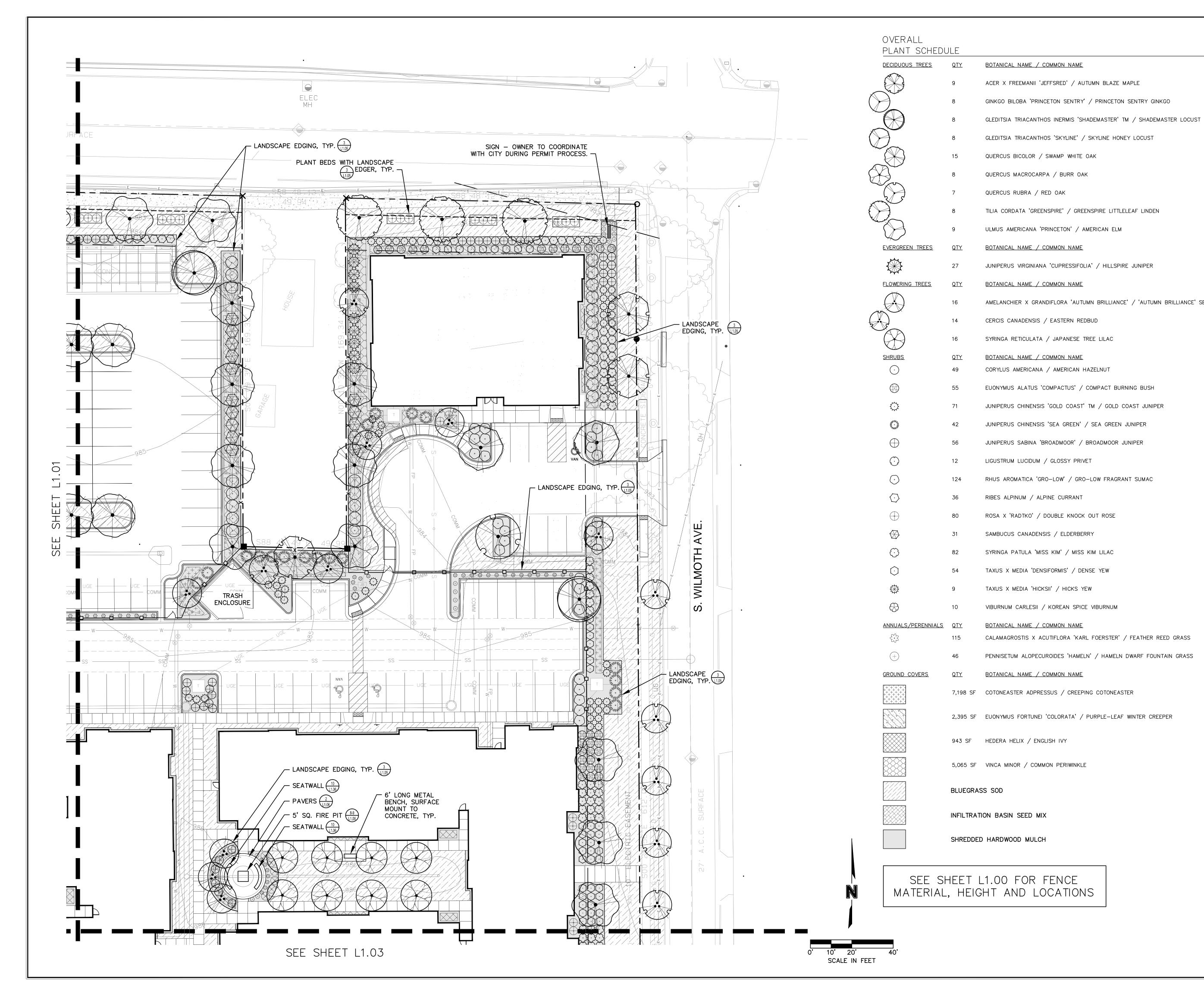
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NAME / COMMON NAME	<u>CONT</u>	<u>CAL</u>	<u>SIZE</u>	
VIRGINIANA 'CUPRESSIFOLIA' / HILLSPIRE JUNIPER	B & B		6' HT	
NAME / COMMON NAME	<u>CONT</u>	<u>CAL</u>	<u>SIZE</u>	
R X GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	B & B	1"CAL	8'-10' HT.	
ADENSIS / EASTERN REDBUD	B & B	1"CAL	8'-10' HT.	
TICULATA / JAPANESE TREE LILAC	В&В	1"CAL	8'-10' HT.	
NAME / COMMON NAME MERICANA / AMERICAN HAZELNUT	<u>SIZE</u> #5 CONT.	FIELD2	FIELD3	
ALATUS 'COMPACTUS' / COMPACT BURNING BUSH	#5 CONT.			
CHINENSIS 'GOLD COAST' TM / GOLD COAST JUNIPER	#5 CONT.			
CHINENSIS 'SEA GREEN' / SEA GREEN JUNIPER	#5 CONT.			
SABINA 'BROADMOOR' / BROADMOOR JUNIPER	#5 CONT.			
LUCIDUM / GLOSSY PRIVET	#5 CONT.			
ATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	#5 CONT.			
IUM / ALPINE CURRANT	#5 CONT.			
DTKO' / DOUBLE KNOCK OUT ROSE	#5 CONT.			
CANADENSIS / ELDERBERRY	#5 CONT.			
TULA 'MISS KIM' / MISS KIM LILAC	#5 CONT.			
EDIA 'DENSIFORMIS' / DENSE YEW	#5 CONT.			
EDIA 'HICKSII' / HICKS YEW	#5 CONT.			
CARLESII / KOREAN SPICE VIBURNUM	#5 CONT.			
NAME / COMMON NAME STIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	<u>SIZE</u> #1 CONT.	FIELD2	FIELD3	
ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS	#1 CONT.			
NAME / COMMON NAME	<u>CONT</u>	FIELD2	FIELD3	<u>SPACING</u>
ER ADPRESSUS / CREEPING COTONEASTER	#SP1			36" o.c.
FORTUNEI 'COLORATA' / PURPLE-LEAF WINTER CREEPER	#SP1			36" o.c.
IX / ENGLISH IVY	#SP1			36" o.c.
R / COMMON PERIWINKLE	#SP1			36" o.c.

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<u>CONT</u> <u>CAL</u> <u>SIZE</u>

B & B 1.5"CAL 10'-12' HT.

B & B 1.5"CAL 10[°]-12[°] HT.

B & B 1.5"CAL 10'-12' HT.

B & B 1.5"CAL 10'-12' HT.

B & B 1.5"CAL 10'-12' HT.

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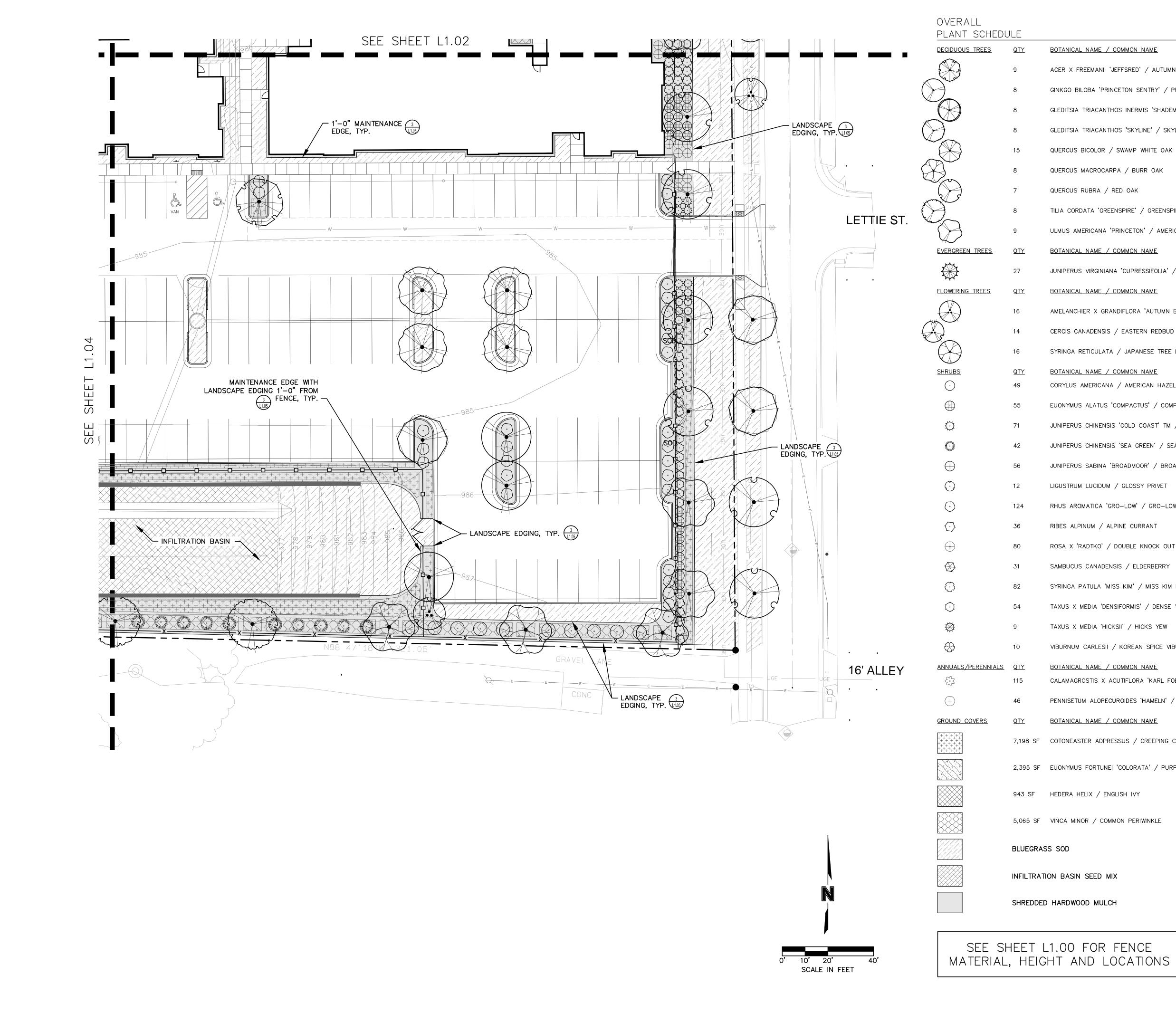
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03.18.16	REV'D PER	R CITY CMNT
PROJECT N	UMBER:	
20151	47	
ISSUE:		

SHEET NAME: NORTHEAST LANDSCAPE PLAN SHEET: L1.02



CANADENSIS / ELDERBERRY	#5 CON
ATULA 'MISS KIM' / MISS KIM LILAC	#5 CON
EDIA 'DENSIFORMIS' / DENSE YEW	#5 CON
EDIA 'HICKSII' / HICKS YEW	#5 CON
CARLESII / KOREAN SPICE VIBURNUM	#5 CON
NAME / COMMON NAME	<u>SIZE</u>
OSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	#1 CON
ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS	#1 CON
NAME / COMMON NAME	<u>CONT</u>
ER ADPRESSUS / CREEPING COTONEASTER	#SP1
FORTUNEI 'COLORATA' / PURPLE-LEAF WINTER CREEPER	#SP1
LIX / ENGLISH IVY	#SP1
R / COMMON PERIWINKLE	#SP1

IE / COMMON NAME	<u>CONT</u>	CAL	<u>SIZE</u>	
ANII 'JEFFSRED' / AUTUMN BLAZE MAPLE	В&В	1.5"CAL	10'-12' HT.	
'PRINCETON SENTRY' / PRINCETON SENTRY GINKGO	В&В	1.5"CAL	10'-12' HT.	
CANTHOS INERMIS 'SHADEMASTER' TM / SHADEMASTER LOCUST	В&В	1.5"CAL	10'-12' HT.	
CANTHOS 'SKYLINE' / SKYLINE HONEY LOCUST	В&В	1.5"CAL	10'-12' HT.	
.OR / SWAMP WHITE OAK	В&В	1.5"CAL	10'-12' HT.	
OCARPA / BURR OAK	В&В	1.5"CAL	10'-12' HT.	
A / RED OAK	В&В	1.5"CAL	10'-12' HT.	
'GREENSPIRE' / GREENSPIRE LITTLELEAF LINDEN	В&В	1.5"CAL	10'-12' HT.	
ANA 'PRINCETON' / AMERICAN ELM	В&В	1.5"CAL	10'-12' HT.	
IE / COMMON NAME	<u>CONT</u>	CAL	<u>SIZE</u>	
GINIANA 'CUPRESSIFOLIA' / HILLSPIRE JUNIPER	В&В		6' HT	
IE / COMMON NAME	<u>CONT</u>	CAL	<u>SIZE</u>	
GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	В&В	1"CAL	8'-10' HT.	
NSIS / EASTERN REDBUD	В&В	1"CAL	8'-10' HT.	
JLATA / JAPANESE TREE LILAC	В&В	1"CAL	8'-10' HT.	
IE / COMMON NAME	<u>SIZE</u>	FIELD2	FIELD3	
ICANA / AMERICAN HAZELNUT	#5 CONT.			
TUS 'COMPACTUS' / COMPACT BURNING BUSH	#5 CONT.			
NENSIS 'GOLD COAST' TM / GOLD COAST JUNIPER	#5 CONT.			
NENSIS 'SEA GREEN' / SEA GREEN JUNIPER	#5 CONT.			
INA 'BROADMOOR' / BROADMOOR JUNIPER	#5 CONT.			
IDUM / GLOSSY PRIVET	#5 CONT.			
CA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	#5 CONT.			
/ ALPINE CURRANT	#5 CONT.			
O' / DOUBLE KNOCK OUT ROSE	#5 CONT.			
IADENSIS / ELDERBERRY	#5 CONT.			
A 'MISS KIM' / MISS KIM LILAC	#5 CONT.			
'DENSIFORMIS' / DENSE YEW	#5 CONT.			
HICKSII' / HICKS YEW	#5 CONT.			
ESII / KOREAN SPICE VIBURNUM	#5 CONT.			
IE / COMMON NAME	<u>SIZE</u>	FIELD2	FIELD3	
S X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	#1 CONT.			
OPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS	#1 CONT.			
<u>IE / COMMON NAME</u>	<u>CONT</u>	FIELD2	FIELD3	<u>SPACING</u>
ADPRESSUS / CREEPING COTONEASTER	#SP1			36"o.c.
TUNEI 'COLORATA' / PURPLE-LEAF WINTER CREEPER	#SP1			36"o.c.
/ ENGLISH IVY	#SP1			36"o.c.



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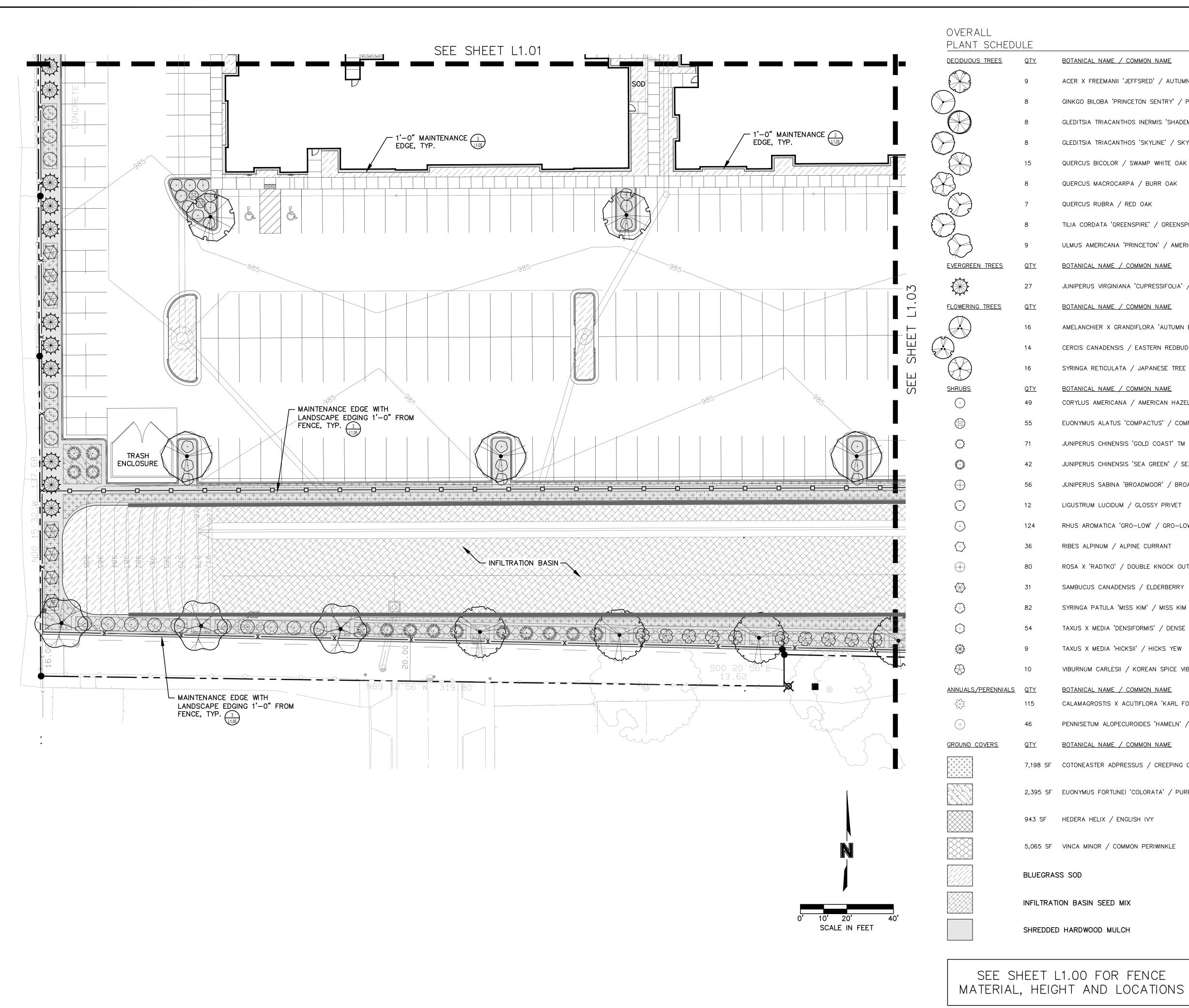
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REVISIONS
03.18.16 - REV'D PER CITY CMNTS.
PROJECT NUMBER:
2015147
ISSUE:
01/04/2016

36" o.c.

SHEET NAME: SOUTHEAST LANDSCAPE PLAN SHEET: L1.03



NAME / COMMON NAME	CONT	CAL	<u>SIZE</u>	
EMANII 'JEFFSRED' / AUTUMN BLAZE MAPLE	В&В	1.5"CAL	10'-12' HT.	
DBA 'PRINCETON SENTRY' / PRINCETON SENTRY GINKGO	В&В	1.5"CAL	10'-12' HT.	
RIACANTHOS INERMIS 'SHADEMASTER' TM / SHADEMASTER LOCUST	B & B	1.5"CAL	10'-12' HT.	
RIACANTHOS 'SKYLINE' / SKYLINE HONEY LOCUST	В&В	1.5"CAL	10'-12' HT.	
COLOR / SWAMP WHITE OAK	B & B	1.5"CAL	10'-12' HT.	
ACROCARPA / BURR OAK	B & B	1.5"CAL	10'-12' HT.	
JBRA / RED OAK	B & B	1.5"CAL	10'-12' HT.	
TA 'GREENSPIRE' / GREENSPIRE LITTLELEAF LINDEN	B & B	1.5"CAL	10'-12' HT.	
RICANA 'PRINCETON' / AMERICAN ELM	B & B	1.5"CAL	10'-12' HT.	
NAME / COMMON NAME	CONT	<u>CAL</u>	<u>SIZE</u>	
VIRGINIANA 'CUPRESSIFOLIA' / HILLSPIRE JUNIPER	В&В		6' HT	
NAME / COMMON NAME	CONT	<u>CAL</u>	<u>SIZE</u>	
R X GRANDIFLORA 'AUTUMN BRILLIANCE' / 'AUTUMN BRILLIANCE' SERVICEBERRY	B & B	1"CAL	8'-10' HT.	
ADENSIS / EASTERN REDBUD	B & B	1"CAL	8'-10' HT.	
TICULATA / JAPANESE TREE LILAC	В&В	1"CAL	8'-10' HT.	
NAME / COMMON NAME	<u>SIZE</u>	FIELD2	FIELD3	
MERICANA / AMERICAN HAZELNUT	#5 CONT.			
ALATUS 'COMPACTUS' / COMPACT BURNING BUSH	#5 CONT.			
CHINENSIS 'GOLD COAST' TM / GOLD COAST JUNIPER	#5 CONT.			
CHINENSIS 'SEA GREEN' / SEA GREEN JUNIPER	#5 CONT.			
SABINA 'BROADMOOR' / BROADMOOR JUNIPER	#5 CONT.			
LUCIDUM / GLOSSY PRIVET	#5 CONT.			
ATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	#5 CONT.			
IUM / ALPINE CURRANT	#5 CONT.			
DTKO' / DOUBLE KNOCK OUT ROSE	#5 CONT.			
CANADENSIS / ELDERBERRY	#5 CONT.			
TULA 'MISS KIM' / MISS KIM LILAC	#5 CONT.			
EDIA 'DENSIFORMIS' / DENSE YEW	#5 CONT.			
EDIA 'HICKSII' / HICKS YEW	#5 CONT.			
CARLESII / KOREAN SPICE VIBURNUM	#5 CONT.			
NAME / COMMON NAME STIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	<u>SIZE</u> #1 CONT.	FIELD2	FIELD3	
ALOPECUROIDES 'HAMELN' / HAMELN DWARF FOUNTAIN GRASS	#1 CONT.			
NAME / COMMON NAME	CONT	FIELD2	FIELD3	<u>SPACING</u>
ER ADPRESSUS / CREEPING COTONEASTER	#SP1			36" o.c.
FORTUNEI 'COLORATA' / PURPLE-LEAF WINTER CREEPER	#SP1			36" o.c.
IX / ENGLISH IVY	#SP1			36" o.c.
R / COMMON PERIWINKLE	#SP1			36" o.c.



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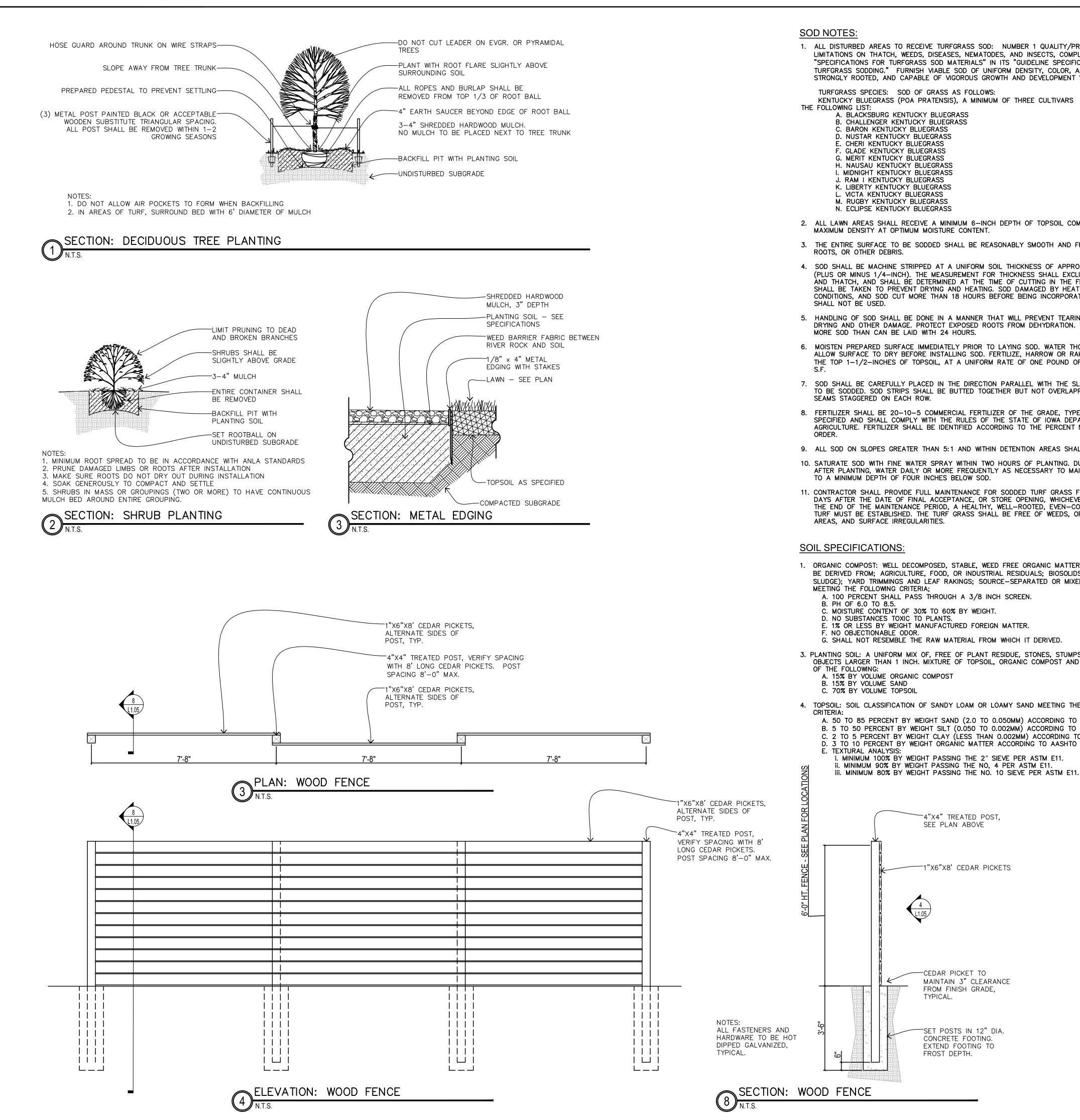
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PROJECT NUMB 2015147 ISSUE:

01/04/2016

SHEET NAME: SOUTHWEST LANDSCAPE PLAN SHEET: L1.04



- 1. ALL DISTURBED AREAS TO RECEIVE TURFGRASS SOD: NUMBER 1 QUALITY/PREMIUM, INCLUDING LIMITATIONS ON THATCH, WEEDS, DISEASES, NEMATODES, AND INSECTS, COMPLYING WITH TPI'S "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" IN ITS "GUIDELINE SPECIFICATIONS TO TURFGRASS SODDING." FURNISH VIABLE SOD OF UNIFORM DENSITY, COLOR, AND TEXTURE, STRONGLY ROOTED, AND CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED.
- KENTUCKY BLUEGRASS (POA PRATENSIS), A MINIMUM OF THREE CULTIVARS SELECTED FROM
- 2. ALL LAWN AREAS SHALL RECEIVE A MINIMUM 6-INCH DEPTH OF TOPSOIL COMPACTED TO 85%
- 3. THE ENTIRE SURFACE TO BE SODDED SHALL BE REASONABLY SMOOTH AND FREE FROM STONES,
- 4. SOD SHALL BE MACHINE STRIPPED AT A UNIFORM SOIL THICKNESS OF APPROXIMATELY ONE INCH (PLUS OR MINUS 1/4-INCH). THE MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH, AND SHALL BE DETERMINED AT THE TIME OF CUTTING IN THE FIELD, PRECAUTIONS SHALL BE TAKEN TO PREVENT DRYING AND HEATING. SOD DAMAGED BY HEAT AND DRY CONDITIONS, AND SOD CUT MORE THAN 18 HOURS BEFORE BEING INCORPORATED INTO THE WORK
- 5. HANDLING OF SOD SHALL BE DONE IN A MANNER THAT WILL PREVENT TEARING, BREAKING, DRYING AND OTHER DAMAGE. PROTECT EXPOSED ROOTS FROM DEHYDRATION. DO NOT DELIVER
- 6. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE INSTALLING SOD. FERTILIZE, HARROW OR RAKE FERTILIZER IN THE TOP 1-1/2-INCHES OF TOPSOIL, AT A UNIFORM RATE OF ONE POUND OF NITROGEN PER 100
- 7. SOD SHALL BE CAREFULLY PLACED IN THE DIRECTION PARALLEL WITH THE SLOPE OF THE AREA TO BE SODDED. SOD STRIPS SHALL BE BUTTED TOGETHER BUT NOT OVERLAPPED WITH THE
- 8. FERTILIZER SHALL BE 20-10-5 COMMERCIAL FERTILIZER OF THE GRADE, TYPE, AND FORM SPECIFIED AND SHALL COMPLY WITH THE RULES OF THE STATE OF IOWA DEPARTMENT OF AGRICULTURE. FERTILIZER SHALL BE IDENTIFIED ACCORDING TO THE PERCENT N, P, K, IN THAT
- 9. ALL SOD ON SLOPES GREATER THAN 5:1 AND WITHIN DETENTION AREAS SHALL BE STAKED.
- 10. SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL
- 11. CONTRACTOR SHALL PROVIDE FULL MAINTENANCE FOR SODDED TURF GRASS FOR A PERIOD OF 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE, OR STORE OPENING, WHICHEVER IS GREATER. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE TURF MUST BE ESTABLISHED. THE TURF GRASS SHALL BE FREE OF WEEDS, OPEN JOINTS, BARE

- . ORGANIC COMPOST: WELL DECOMPOSED, STABLE, WEED FREE ORGANIC MATTER SOURCE. IT SHALL BE DERIVED FROM: AGRICULTURE, FOOD, OR INDUSTRIAL RESIDUALS: BIOSOLIDS (TREATED SEWAGE SLUDGE); YARD TRIMMINGS AND LEAF RAKINGS; SOURCE-SEPARATED OR MIXED SOLID WASTE
- 3. PLANTING SOIL: A UNIFORM MIX OF, FREE OF PLANT RESIDUE, STONES, STUMPS ROOTS OR SIMILAR OBJECTS LARGER THAN 1 INCH. MIXTURE OF TOPSOIL, ORGANIC COMPOST AND SAND CONSISTING
- 4. TOPSOIL: SOIL CLASSIFICATION OF SANDY LOAM OR LOAMY SAND MEETING THE FOLLOWING
 - A. 50 TO 85 PERCENT BY WEIGHT SAND (2.0 TO 0.050MM) ACCORDING TO AASHTO T88.
 - B. 5 TO 50 PERCENT BY WEIGHT SILT (0.050 TO 0.002MM) ACCORDING TO AASHTO T88. C. 2 TO 5 PERCENT BY WEIGHT CLAY (LESS THAN 0.002MM) ACCORDING TO AASHTO T88. D. 3 TO 10 PERCENT BY WEIGHT ORGANIC MATTER ACCORDING TO AASHTO T194.

 - ii. MINIMUM 90% BY WEIGHT PASSING THE NO, 4 PER ASTM E11.

GENERAL LANDSCAPE NOTES

- PRIOR TO ANY EXCAVATION AT THE SITE, THE CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER, ARCHITECT, LANDSCAPE ARCHITECT, AND/OR CIVIL ENGINEER AND, CONSULT WITH ALL UTILITY COMPANY REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS.
- 2. FOR UNDERGROUND UTILITY LOCATES CALL IOWA ONE-CALL AT 1-800-292-8989, 48 HOUR NOTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND LOCATES NOT COVERED BY THE IOWA ONE-CALL SYSTEM. NO COMPENSATION FOR DAMAGES TO EXISTING UTILITIES WILL BE ALLOWED RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
- 3. ALL DAMAGE TO EXISTING SITE IMPROVEMENTS RESULTING FROM EXCAVATION, PLANTING. BACKFILLING, ETC. SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS INCLUDING CONSTRUCTION ACCESS OUTSIDE PROJECT LIMITS. SURFACES OTHER THAN THE PLANTING AREA SHALL BE RESTORED BY THE CONTRACTOR TO THE CONDITION EXISTING PRIOR TO THE PLANTING OPERATION.
- 4. FINISH GRADES IN ALL LANDSCAPE AREAS ARE TO BE REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY SEEDING, SODDING, OR PLANTING. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW FIVE (5) DAYS PRIOR TO THE DESIRED DATE OF REVIEW. NO COMPENSATION FOR RE-SEEDING, RE-SODDING, OR RE-PLANTING OF AN AREA REQUIRING REMEDIAL GRADING SHALL BE ALLOWED RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
- 5. PLANT LIST IS PROVIDED FOR CONVENIENCE ONLY. IN THE CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST QUANTITIES, THE PLAN TO TAKE PRECEDENCE. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS.
- 6. ALL PLANT MATERIAL INSTALLED TO BE "NURSERY GROWN" MEETING THE FOLLOWING CRITERIA: A) PLANT MATERIAL GROWN BY ESTABLISHED COMMERCIAL NURSERIES AND SOLD TO LICENSED AND CERTIFIED NURSERIES AND/OR LANDSCAPE ARCHITECTS. B) GROWN AND SOLD ACCORDING TO AMERICAN STANDARD FOR NURSERY STOCK SPECIFICATION.
- THE LANDSCAPE ARCHITECT AND/OR OWNER RESERVES THE RIGHT TO INSPECT AND APPROVE ALL PLANT MATERIAL AT THE NURSERY/PLACE OF GROWTH, PRIOR TO INSTALLATION. HOWEVER, PLANT MATERIAL WHICH HAS BECOME DAMAGED OR DISEASED OR WHICH IS UNACCEPTABLE TO THE LANDSCAPE ARCHITECT MAY BE REJECTED UPON DELIVERY TO THE SITE. WHEN TYPICAL, TREES WITHOUT A CENTRAL LEADER WILL NOT BE ACCEPTED.
- 8. ALL PLANT SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
- 9. PLANTING OF TREES AND SHRUBS AREAS SHALL BE COMMENCED DURING THE SPRING (MARCH 15-JUNE 15) OR FALL (SEPTEMBER 1-OCTOBER 15) PLANTING SEASON. ANY PLANTING OPERATION NOT PERFORMED DURING THESE PERIODS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT AND ARE PERFORMED AT THE CONTRACTOR'S RISK.
- 10. PLANT LABELS AND TAGS SHALL BE LEFT ON THE PLANT MATERIAL UNTIL AFTER THE INITIAL INSPECTION BY THE LANDSCAPE ARCHITECT.
- 11. TREE LOCATIONS MAY VARY AS DIRECTED BY THE LANDSCAPE ARCHITECT IN THE FIELD. THE ACTUAL LOCATION OF PLANT MATERIALS MAY VARY DUE TO FIELD CONDITIONS. FINAL PLACEMENT OF PLANT MATERIAL SHALL BE APPROVED BEFORE PITS ARE DUG. IF INITIAL PLACEMENT IS NOT SATISFACTORY, PLANTS SHALL BE RELOCATED AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
- 12. ALL TREE/SHRUB PLANTING AREAS TO BE AMENDED WITH ORGANIC COMPOST. A 3" LAYER SHALL BE PLACED OVER TOP OF PLANTING AREA AND ROTOTILLED TO A DEPTH OF 9" BEFORE PLANTING. RAKE AREA SMOOTH.
- 13. GRANULAR PRE-EMERGENT WEED CONTROL SUCH AS DACTHAL, TREFLAN, OR APPROVED SIMILAR PRODUCT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTION IN ALL BEDS. DO NOT APPLY WEED CONTROL IN TREE WELLS IN GRASS AREAS.
- ALL TREES IN SAME PLANTING AREA TO BE PLACED AND PLANTED AT THE SAME TIME. IF 14 BECAUSE OF DELIVERY SCHEDULE, ANY PLANTS REMAIN ON THE SITE FOR MORE THAN 8 HOURS, TO BE HEELED-IN ON SITE TO MAINTAIN THEIR HEALTH AND VITALITY. PLANTS SHALL BE OTHERWISE PROTECTED AND MAINTAINED, INCLUDING BUT NOT LIMITED TO WATER AND SHADE. WHILE ON-SITE, ANY PLANTS DEEMED NOT IN SATISFACTORY HEALTH OR CONDITION AT THE TIME OF PLANTING BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 15. CONTRACTOR IS NOT ALLOWED TO STOCKPILE ANY MATERIALS UNDER THE DRIP LINE OF EXISTING TREES.
- 16. ALL TREES, SHRUB MASS PLANTINGS, AND ANNUAL AND ORNAMENTAL PLANTING BEDS SHALL RECEIVE SHREDDED HARDWOOD MULCH TO A DEPTH OF 3".
- 17. THE CONTRACTOR SHALL PRESERVE AREAS OF EXISTING VEGETATION, INCLUDING GRASS, THAT OCCUR WITHIN THE CONTRACT LIMITS BUT ARE NOT NEEDED FOR CONSTRUCTION. REPAIR ALL OF THESE EXISTING AREAS TO THEIR ORIGINAL CONDITION WHICH ARE DISTURBED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 18. CONTRACTOR TO BE RESPONSIBLE FOR WATERING ALL PLANT MATERIALS UNTIL THE TIME THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTIONAL AND ACCEPTANCE OF THE PROJECT HAS TAKEN PLACE. ANY MATERIAL WHICH DIES, OR DEFOLIATES (PRIOR TO ACCEPTANCE OF THE WORK) WILL BE PROMPTLY REMOVED AND REPLACED.
- 19. ALL SOIL AND OTHER DEBRIS SPILLED OR TRACKED ONTO THE PUBLIC R.O.W. OR ADJACENT PROPERTIES SHALL BE CLEANED-UP BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
- 20. ALL DISTURBED AREAS OUTSIDE LIMITS OF DISTURBANCE TO RECEIVE SOD.
- 21. THE CONTRACTOR TO COMPLETELY GUARANTEE ALL WORK FOR THE PERIOD SPECIFIED BY THE WARRANTY CHART BELOW BASED ON FINAL ACCEPTANCE.

WARRANTY CHART					
SUBSTANTIAL COMPLETION DATE	DURATION	WARRANTY EXPIRATION			
DECEMBER	19 MONTHS	JULY			
JANUARY	18 MONTHS	JULY			
FEBRUARY	17 MONTHS	JULY			
MARCH	16 MONTHS	JULY			
APRIL	15 MONTHS	JULY			
MAY	14 MONTHS	JULY			
JUNE	13 MONTHS	JULY			
JULY	12 MONTHS	JULY			
AUGUST	12 MONTHS	AUGUST			
SEPTEMBER	12 MONTHS	SEPTEMBER			
OCTOBER	12 MONTHS	OCTOBER			
NOVEMBER	12 MONTHS	NOVEMBER			

SEED SPECIFICATIONS:

INFILTRATION SEED MIX TO BE: DETENTION BASIN SEED MIX - BY: PRAIRIE MOON NURSERY 32115 PRAIRIE LANE WINONA, MN 55987

SEED RATE: 20 LBS PER ACRE

SEE SHEET L1.06 FOR NATIVE SEEDING NOTES.

architects mæ

merriman associates

> architecture · planning interior design

300 N. FIELD ST. DALLAS, TEXAS 7520 2 4.987. 299 214.987.2138 (FAX)

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ISSUE: 01/04/2016 SHEET NAME: LANDSCAPE NOTES & DETAILS SHEET:

L1.05

PROJECT NUMBER:

2015147

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03.18.16 - REV'D PER CITY CMNTS.

REVISIONS

NATIVE SEEDING NOTES

- ALL MATERIALS USED SHALL MEET OR EXCEED APPLICABLE FEDERAL STATE, COUNTY AND LOCAL LAWS AND REGULATIONS. ALL SEED SHALL BE FREE FROM INSECTS AND DISEASE. SPECIES SHALL BE TRUE TO THEIR SCIENTIFIC NAME AS SPECIFIED.
- 2. ALL GRASS SPECIES SHALL BE SUPPLIED AS PURE LIVE SEED.
- SEEDS SHALL HAVE PROPER STRATIFICATION AND/OR SCARIFICATION TO BREAK SEED DORMANCY FOR SPRING PLANTING.
- 4. SEEDING SHALL BE PREFERENTIALLY CONDUCTED AS A LATE FALL DORMANT SEEDING (AFTER NOVEMBER 1) OR IN EARLY SPRING (AS SOON AS THE SOIL IS FREE OF FROST AND IN A WORKABLE CONDITION BUT NO LATER THAN JUNE 15).
- NATIVE SEEDING SHALL BE COMPLETED WHEN A MINIMUM OF 1/4 INCH OF NATURAL RAINFALL IS EXPECTED OR WHEN A MINIMUM OF 1/4 INCH OF IRRIGATION WILL BE RECEIVED WITHIN 10 DAYS AFTER SEEDING. IF SUFFICIENT NATURAL RAINFALL IS NOT RECEIVED WITHIN 10 DAYS, THE NEW SEEDING SHALL BE IRRIGATED WITH A MINIMUM OF 1/4 INCH OF WATER, OR SO THAT WATER PENETRATES THE SOIL TO A UNIFORM MINIMUM DEPTH OF 4.0 INCHES.
- 6. A TEMPORARY ABOVE-GROUND IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED BY THE CONTRACTOR UPON COMPLETION OF FINISH GRADING AND PRIOR TO INSTALLATION OF PLANTINGS WITHIN THE GRADED UPLAND AREAS. ALL GRADED AREAS SHALL RECEIVE HEAD-TO-HEAD IRRIGATION COVERAGE, EXCEPT FOR PERMANENTLY PONDED AREAS.
- PROVIDE WRITTEN VERIFICATION TO THE OWNER THAT BACKFLOW PREVENTION PER CODE EXISTS ON THE LINE TO BE USED AS A POINT OF CONNECTION FOR THE IRRIGATION SYSTEM. IF VERIFICATION CANNOT BE MADE, PROVIDE BACKFLOW PREVENTION PER CODE AS A PART OF THE INSTALLATION.
- CONTRACTOR SHALL PROVIDE WATER AND ELECTRICITY FOR THE SYSTEM IN THE EVENT THAT NEITHER IS AVAILABLE FOR IMMEDIATE USE. CONTRACTOR SHALL PROVIDE ISOLATION VALVE AND CONNECTION TO WATER AND CONTROLLER.
- 9. THE IRRIGATION SYSTEM SHALL BE SET BY CONTRACTOR PRECIPITATION 2 TIMES PER WEEK BETWEEN JUNE 15TH AND OCTOBER 31ST OF THE FIRST YEAR AFTER PLANTING. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER FUNCTION AND CONNECTION OF THE IRRIGATION SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE IRRIGATION SYSTEM FOR THE DURATION OF FIRST FULL GROWING SEASON. AT THE END OF THE IRRIGATION PERIOD, AND IF PLANT ESTABLISHMENT IS SUCCESSFUL, AS DETERMINED BY THE SEEDING WARRANTY CRITERIA, THE CONTRACTOR SHALL PERMANENTLY CAP PIPE DOWNSTREAM OF ISOLATION VALVE, AND THEN DISASSEMBLE AND REMOVE THE IRRIGATION SYSTEM.
- 10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL TEMPORARY SIGNS, FLAGGING, ETC. AT THE PERIMETER OF ALL SEEDING SITES IMMEDIATELY AFTER THEIR COMPLETION, WHICH SHALL SERVE TO NOTIFY FOOT AND VEHICULAR TRAFFIC THAT A SENSITIVE AREA MAY BE DAMAGED BY THEIR ENTRY.
- 11. AREAS DESCRIBED AS NATIVE GRASS ZONES SHALL BE MULCHED.

MULCHING IS THE APPLICATION OF ORGANIC MATERIAL TO THE SOIL SURFACE TO PROTECT IT FROM RAINDROP IMPACT AND OVERLAND FLOW. MULCH COVERS THE SOIL AND ABSORBS THE EROSIVE IMPACT OF RAINFALL AND REDUCES THE FLOW VELOCITY OF RUNOFF.

STRAW MULCH SHALL BE OAT, WHEAT, OR RICE STRAW MULCH. HAY MULCH SHALL BE PRAIRIE GRASS OR OTHER HAY AS APPROVED BY THE OWNER. THE MULCH SHALL BE FREE OF JOHNSON GRASS OR OTHER NOXIOUS WEEDS AND FOREIGN MATERIALS. IT SHALL BE KEPT IN A DRY CONDITION AND SHALL NOT BE MOLDED OR ROTTED. STRAW OR HAY FOR EROSION CONTROL SHALL BE CLEAN, SEED-FREE HAY OR THRESHED STRAW OF WHEAT, RYE, OATS, OR BARLEY.

MULCH SHALL COVER A MINIMUM OF 80% OF THE SOIL SURFACE FOR UNSEEDED AREAS. FOR SEEDED AREAS, MULCH SHALL BE PLACED LOOSE AND OPEN ENOUGH TO ALLOW SOME SUNLIGHT TO PENETRATE AND AIR TO CIRCULATE BUT STILL COVER A MINIMUM OF 70% OF THE SOIL SURFACE.

MULCH SHALL BE APPLIED AT THE RATE OF 11/2 TO 2 TONS PER ACRE FOR SITES THAT ARE SEEDED, AND 2 TO 3 TONS PER ACRE FOR SITES THAT ARE NOT SEEDED. THIS APPLICATION RESULTS IN A LAYER OF 1/2 TO 1½ INCHES THICK FOR SEEDED SITES, AND 1½ TO 3 INCHES THICK FOR SITES NOT SEEDED.

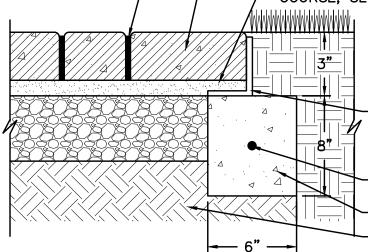
IMMEDIATELY AFTER SPREADING, THE MULCH SHALL BE ANCHORED BY A MULCH CRIMPER AND/OR TACKIFIER.

THE CRIMPER SHALL CONSIST OF A SERIES OF DULL FLAT DISCS WITH NOTCHED EDGES SPACED APPROXIMATELY 8 INCHES APART. THE MULCH SHALL BE IMPRESSED IN THE SOIL TO A DEPTH OF 1 TO 3 INCHES.

TACKIFIER SHALL BE SPRAYED IN CONJUNCTION WITH MULCH OR IMMEDIATELY AFTER THE MULCH HAS BEEN PLACED. TACKIFIERS SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.

> FILL ALL JOINTS AFTER COMPACTING WITH JOINT SAND, REFER TO SPECS UNIT PAVER, SEE LANDSCAPE DETAILS

> > 1" MAX SAND LEVELING COURSE, SEE SPEC



12. THE WORK AREA SHALL BE KEPT FREE OF DEBRIS BY THE CONTRACTOR. AFTER SEED INSTALLATION IS COMPLETE, CLEAN UP ANY REMAINING MATERIALS, DEBRIS, TRASH, ETC. AVOID DRIVING OVER SEEDED AREAS TO MINIMIZE DISTURBANCE. GRADING STAKES, STONES, TRASH, AND OTHER DEBRIS WHICH MAY DETRACT FROM THE APPEARANCE OR HINDER MAINTENANCE OF THE SEEDING SITE SHALL BE REMOVED FROM THE SITE WHEN SEEDING OPERATIONS ARE COMPLETED. SOIL, STRAW, HAY, HYDRAULIC FIBER MULCH, FERTILIZER, COMPOST, LIMESTONE, ELEMENTAL SULFUR, GYPSUM, AND OTHER DEBRIS SHALL BE REMOVED FROM PAVED AREAS SOON AS POSSIBLE AFTER SPREADING AND SEEDING OPERATIONS ARE COMPLETED. CLEAN UP OPERATIONS SHALL BE COMPLETED BEFORE ACCEPTANCE IS GIVEN.

- 13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY EFFECTIVE SEEDING AND EROSION CONTROL MULCH MATERIALS, AND TO ENSURE THAT SUCH MATERIALS ARE SECURED TO THE SOIL SO THAT THEY ARE NOT BLOWN, WASHED, OR OTHERWISE REMOVED FROM THE SEEDING SITE, AND SO THAT NEARBY STREAMS AND OTHER AREAS SHALL BE PROTECTED FROM SOIL, FERTILIZER, COMPOST, AND THE INCURSION OF UNWANTED GRASS SEED.
- 14. INSTALLING CONTRACTOR SHALL REVIEW LANDSCAPE MAINTENANCE RECOMMENDATIONS WITH A QUALIFIED MITIGATION SPECIALIST APPROVED BY THE OWNER WHO IS FAMILIAR WITH THE STATED GOALS AND OBJECTIVES OF THE MITIGATION PLAN. MAINTENANCE IS TO BE PROVIDED THROUGHOUT CONSTRUCTION AND FOR THREE-YEARS FOLLOWING CONSTRUCTION. DURING THE MAINTENANCE PERIOD, BETWEEN MARCH AND SEPTEMBER 15, HAND SEED ALL PREVIOUSLY SEEDED AREAS WHICH SHOW BARE GROUND PATCHES LARGER THAN 36"X36". THE FOLLOWING GENERAL NATIVE GRASS MAINTENANCE RECOMMENDATIONS ARE TO BE FOLLOWED UNLESS AN ALTERNATIVE IS APPROVED BY THE OWNER.

<u>1ST YEAR</u> - MOW FREQUENTLY TO PREVENT WEED GROWTH AND THATCH BUILD-UP. MOWING HEIGHT SHOULD BE APPROXIMATELY 4-6 INCHES IN HEIGHT AND COMPLETED BETWEEN THE MONTHS OF MARCH - JULY 15. NO MOWING SHOULD BE COMPLETED AFTER THE JULY 15 DATE. ADDITIONAL WEED PREVENTION IS RECOMMENDED WITH THE USE OF AN APPROVED HERBICIDE FOR NATIVE GRASSES. A GOOD APPROACH IS TO COMPLETE HERBICIDE APPLICATIONS AS SPOT TREATMENTS ON WEEDY AREAS FOLLOWING THE SEASONAL MOWING REGIME IN AUGUST AND SEPTEMBER. HAND WEED AS NECESSARY.

2ND YEAR - MOWING SHOULD BE LIMITED TO 2-3 TIMES BEFORE JULY 15TH. MOWING HEIGHT SHOULD BE INCREASED TO 8" IN HEIGHT. CONTINUE TO SPOT TREAT INVASIVE WEEDS WITH AN APPROVED HERBICIDE. HAND WEED AS NECESSARY.

<u>3RD YEAR</u> – MOW ONCE BEFORE JULY 15TH AFTER VEGETATION REACHES A HEIGHT OF 16". MOW TO A HEIGHT OF 8". CONTINUE TO SPOT TREAT INVASIVE WEEDS WITH AN APPROVED HERBICIDE. HAND WEED AS NECESSARY.

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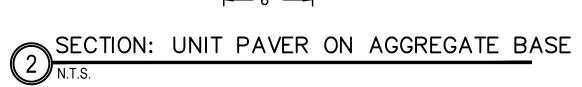
16. IN ADDITION TO THE SPECIFIED NATIVE SEED MIX, A COVER CROP OF OATS (AVENA SATIVA) NOVEMBER 1 - AUGUST 1 OR WINTER WHEAT (TRITICUM AESTIVUM) AUGUST 1 -NOVEMBER 1 TO BE SEEDED AT A RATE OF 120 LBS PER ACRE.

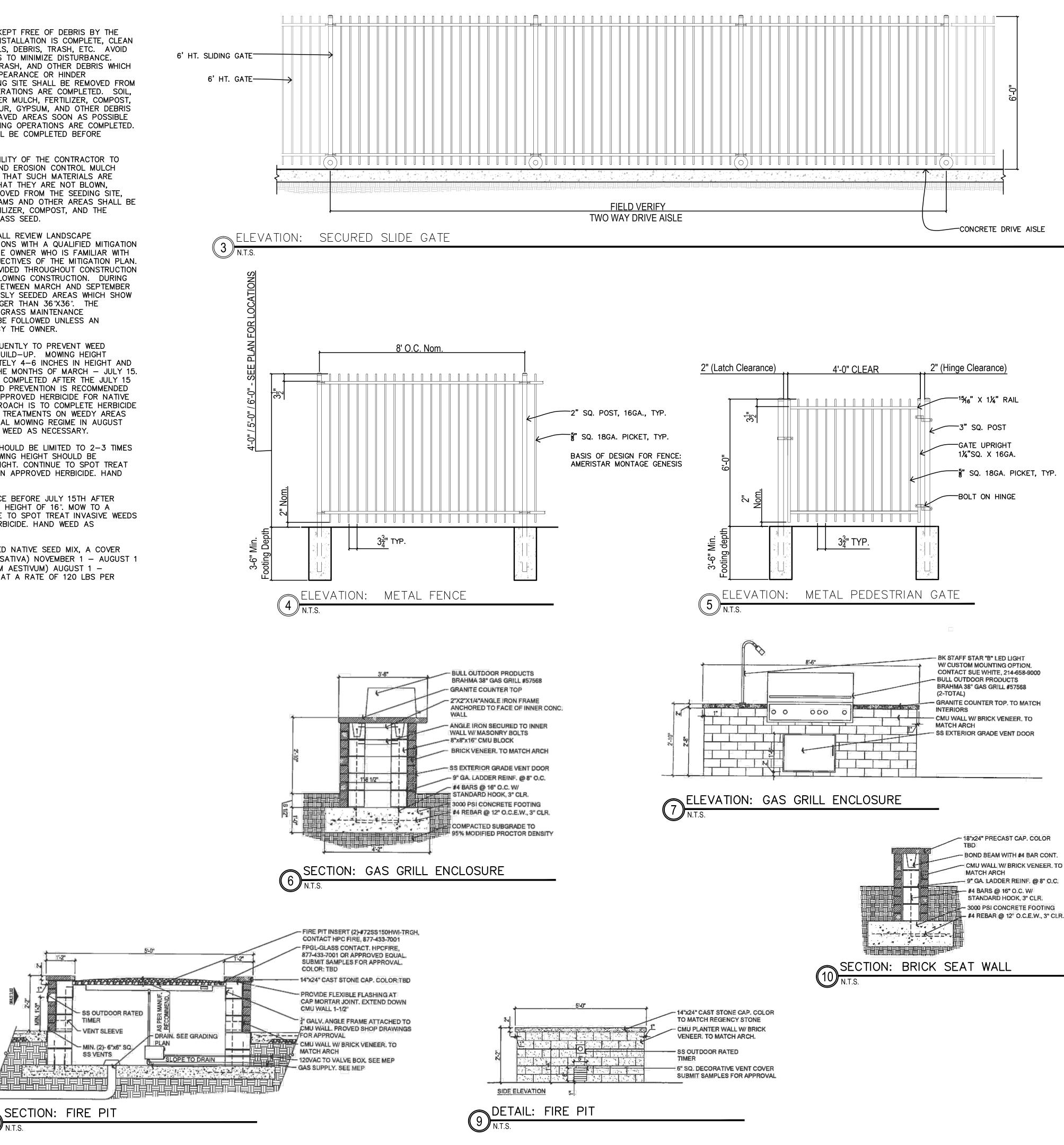
<u>GENERAL NOTES:</u> 1. DO NOT COMPACT LEVELING COURSE PRIOR TO SETTING PAVERS,

2. INSTALL AND CUT PAVERS IN A MANNER THAT ELIMINATES PAVERS LESS THAN 2" IN WIDTH. 3. REPLACE BROKEN PAVERS WHILE COMPACTING AND BEFORE APPLYING JOINT SAND.

PERMALOC ALUMN EDGING TYPE: ASPHALT EDGE SIZE: 3" X 3" ANCHOR PER MFG RECOMMENDATIONS

#4 CONTINUOUS, WITH #4 CORNER BARS WITH 24" LEGS @ EA CORNER, TYP. CONCRETE EDGE RESTRAINT, TYP. PREPARED SUBGRADE, 6" MIN





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REVISIONS

PROJECT NUMBER:

01/04/2016

LANDSCAPE DETAILS

L1.06

SHEET NAME:

2015147

SSUE:

SHEET:

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IOWA AMES

merriman interior design

architects

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associates architecture - planning

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