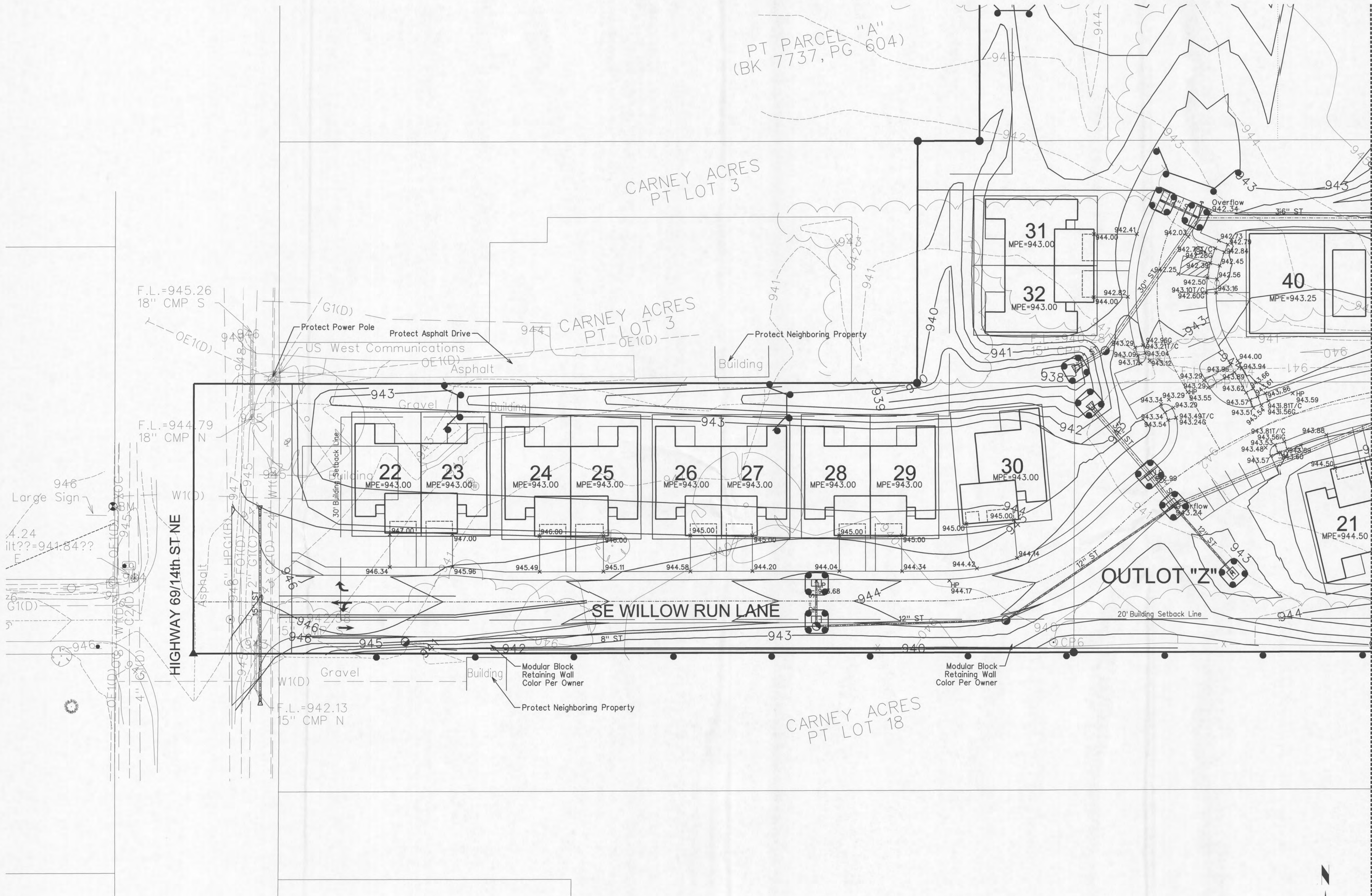


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Project No: 1160394
Sheet 7 of 10

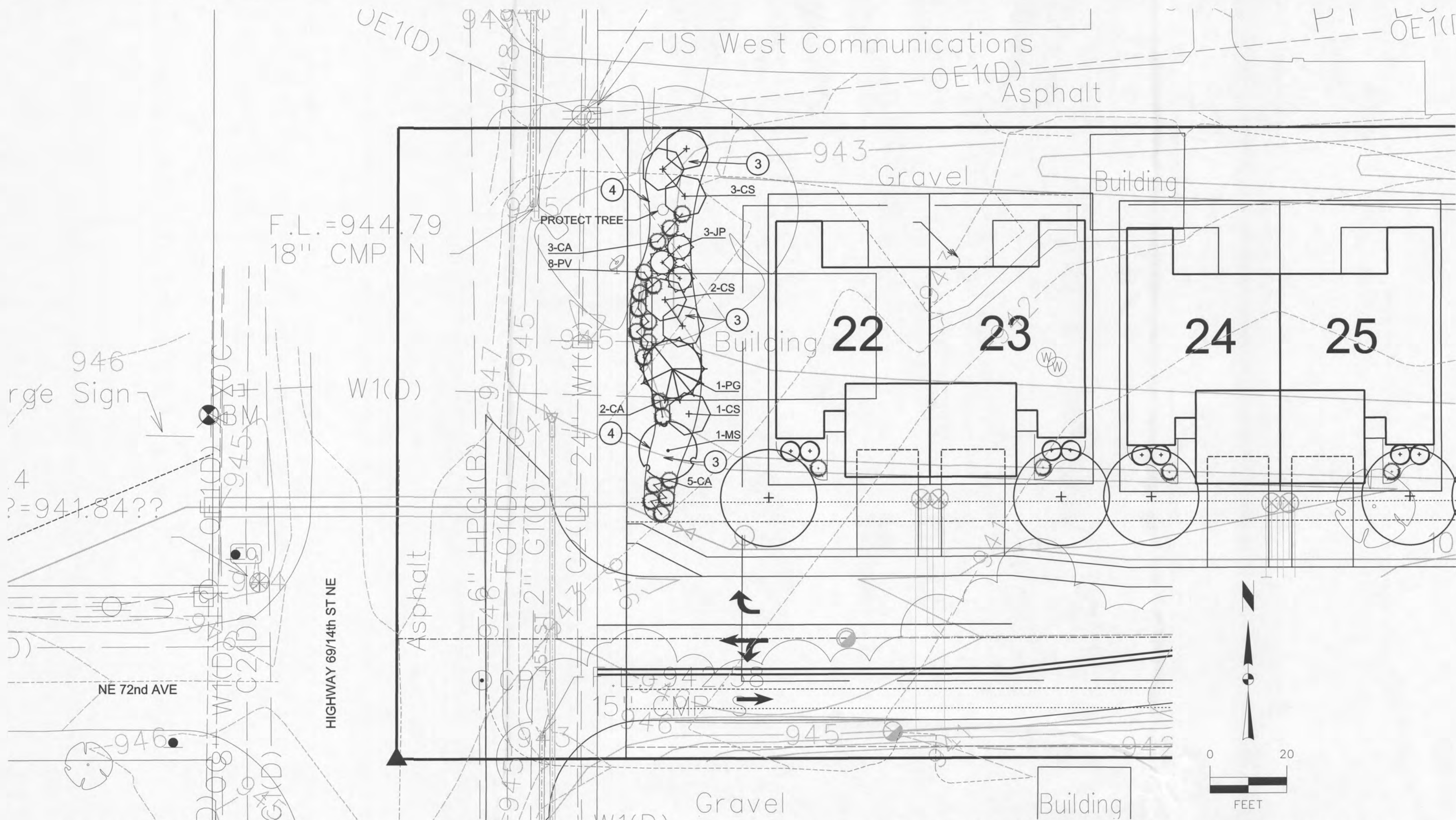
WILLOW RUN PLAT 1
GRADING AND EROSION CONTROL PLAN

SNYDER & ASSOCIATES, INC.

ANKENY, IOWA
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MARK	REVISION	DATE	BY
1	REVISED PER CITY COMMENTS	09/08/17	AWS
Engineer:	KMM	Checked By:	BKC
Technician:	AWS	Date:	08/18/17
Field Bk:			
Project No:	1160394		
Sheet	7 of 10		

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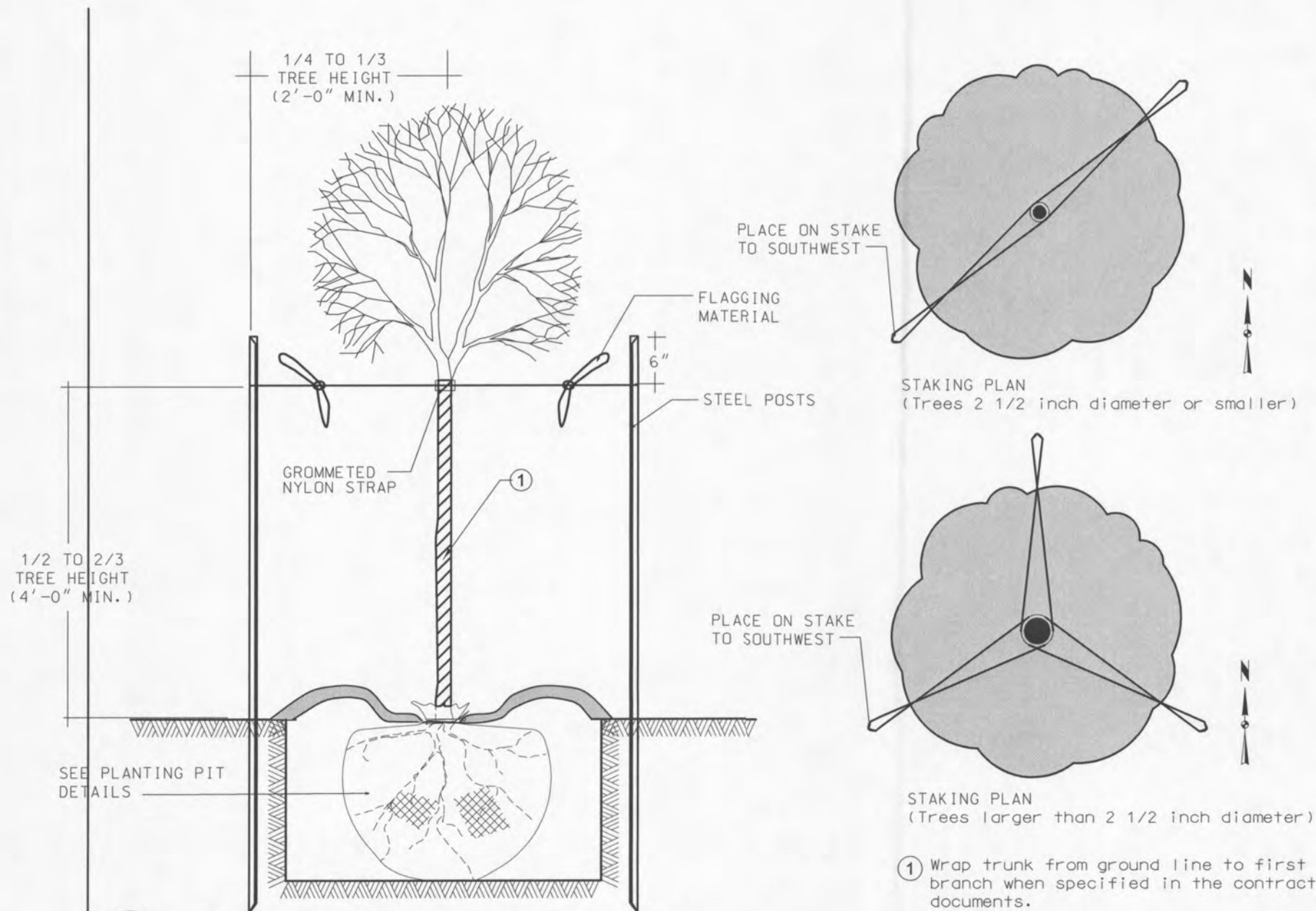


PLANT SCHEDULE - 14TH STREET BUFFER PLANTINGS

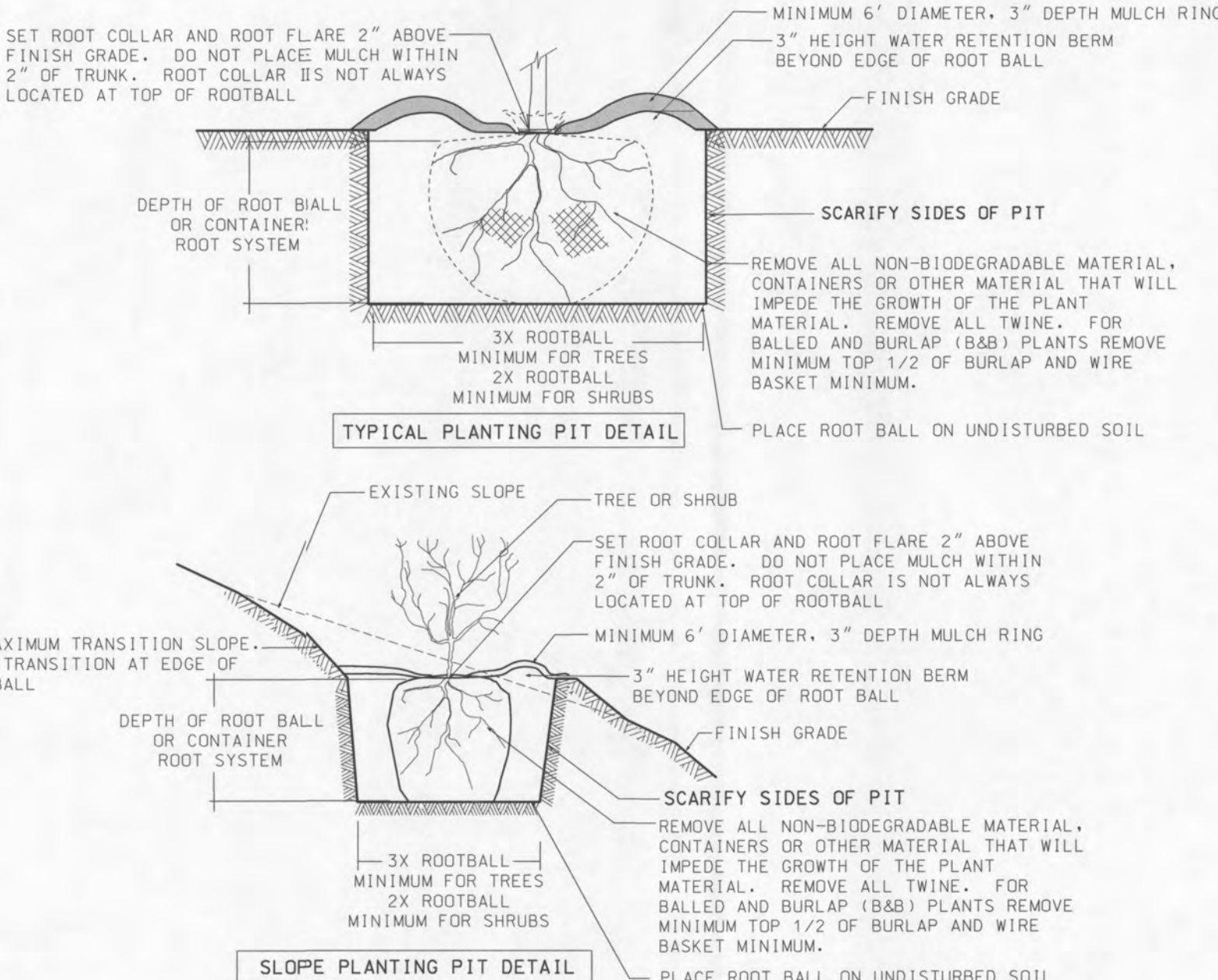
KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
TREES				
CO	Celtis occidentalis	COMMON HACKBERRY	1-1/2" Cal.	Cont.
MS	Malus 'Spring Snow'	SPRING SNOW CRABAPPLE	1-1/2" Cal.	Cont.
PG	Picea glauca var. densata	BLACK HILLS SPRUCE	6' HT. Cal.	B&B
SHRUBS & GRASSES				
CA	Calamagrostis x acutiflora 'Karl Foerster'	KARL FOERSTER GRASS	1 GAL.	Cont., 4'-0.C.
CS	Cornus sericea 'Cardinal'	RED TWIG DOGWOOD	30" HT.	Cont., 8'-0.C.
JP	Juniperus pfitzeriana 'Sea Green'	SEA GREEN JUNIPER	30" HT.	Cont., 6'-0.C.
PV	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	1 GAL.	Cont., 4'-0.C.

PLANTING PLAN CONSTRUCTION NOTES - 14TH STRET BUFFER PLANTINGS

- PROVIDE 3" MIN. DEPTH SHREDDED HARDWOOD MULCH ON ALL INDIVIDUAL TREES WITH A 5' DIAMETER MINIMUM MULCH RING.
- SEED AREAS AS INDICATED ON PLANS WITH TYPE 1 PERMANENT LAWN MIXTURE AS PER SUDAS SPECIFICATIONS SECTION 9010. INSTALL AND MAINTAIN PER OWNER'S REQUIREMENTS.
- CONTRACTOR TO INSTALL SHREDDED HARDWOOD BARK MULCH, TO A DEPTH OF 3 INCHES. APPLY GRANULAR PRE-EMERGENT HERBICIDE SUCH AS PREEN OR APPROVED EQUAL AS PER MANUFACTURER'S INSTRUCTIONS. DO NOT APPLY TO ANY AREAS INTENDED FOR SEED. PROVIDE SAMPLE OF BARK MULCH TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- PLANTING BEDS SHALL RECEIVE VERTICAL CUT NATURAL EDGE TO A DEPTH OF 4 INCHES IN ALL BED AREAS ADJACENT TO LAWN, UNLESS OTHERWISE DIRECTED BY OWNER.



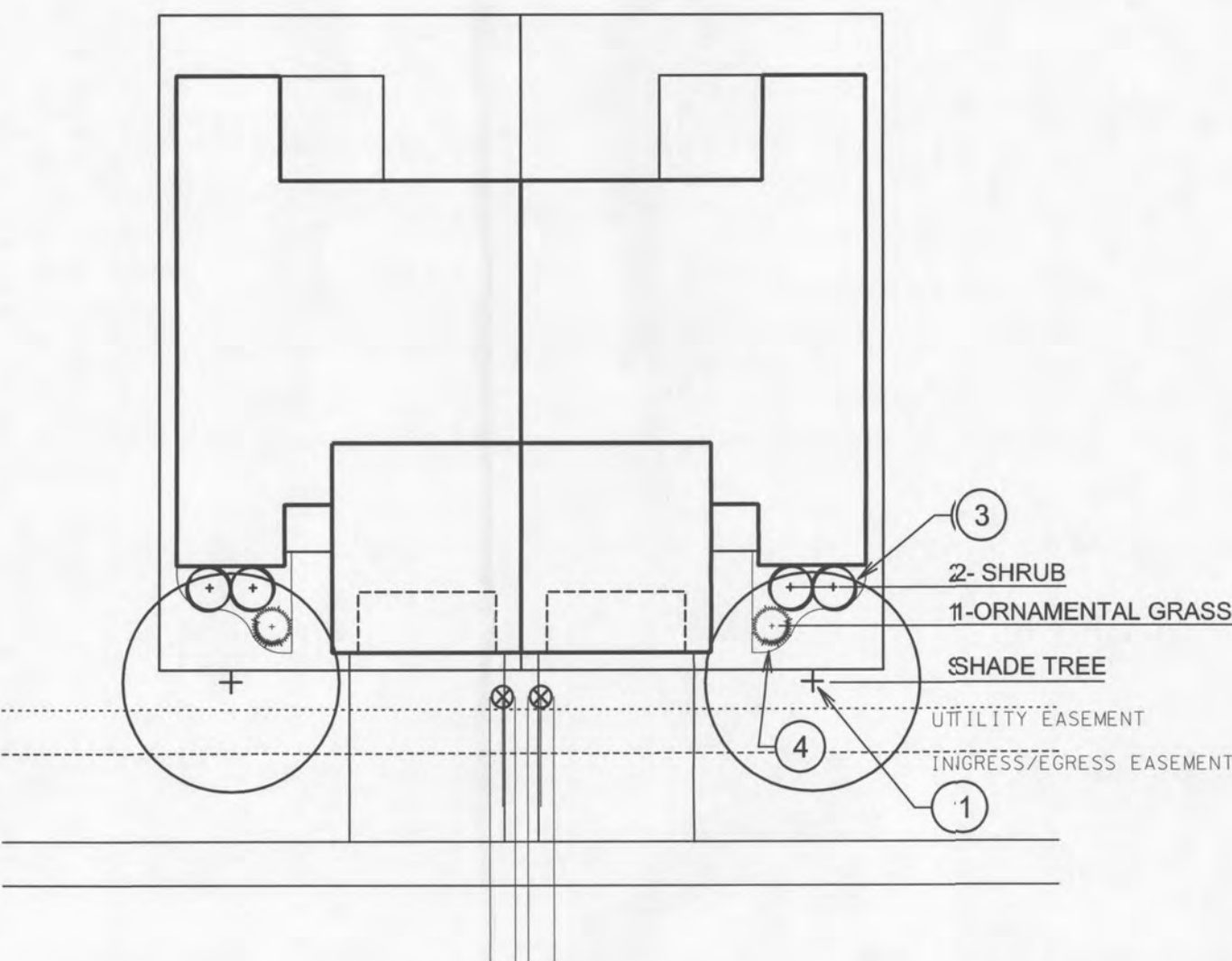
1 DECIDUOUS TREE STAKING DETAIL
10 NO SCALE



2 PLANTING PIT DETAILS
10 NO SCALE

PLANT SCHEDULE - TYPICAL UNIT PLANTINGS

KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS	EXPOSURE
TREES					
	Acer saccharum subsp. nigrum 'Green Column'	BLACK MAPLE	1-1/2" Cal.		
	Betula platyphlla 'Fargo'	DAKOTA PINNACLE BIRCH	1-1/2" Cal.		
	Ginkgo biloba 'Princeton Sentry'	PRINCETON SENTRY GINKGO	1-1/2" Cal.	MALE ONLY	
	Ostrya virginiana	EASTERN HOP HORNBREAM	1-1/2" Cal.		
	Quercus x bimundorum 'Midwest'	PRAIRIE STATURE OAK	1-1/2" Cal.		
	Tilia cordata 'Greenspire'	GREENSPIRE LITTLE LEAF LINDEN	1-1/2" Cal.		
SHRUBS					
	Hydrangea paniculata 'Jane'	LITTLE LIME HYDRANGEA	30" HT.	Cont., 5'-0.C.	NORTH/SOUTH
	Physocarpus opulifolius 'Donna May'	LITTLE DEVIL NINEBARK	30" HT.	Cont., 5'-0.C.	SOUTH
	Spiraea betulifolia 'Tor'	TOR BIRCHLEAF SPIREA	30" HT.	Cont., 5'-0.C.	SOUTH
	Taxus media 'taunton'	TAUNTON YEW	24" HT.	Cont., 5'-0.C.	NORTH/SOUTH
ORNAMENTAL GRASSES					
	Calamagrostis x acutiflora 'Karl Foerster'	KARL FOERSTER GRASS	1 GAL.	Cont., 4'-0.C.	
	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	1 GAL.	Cont., 4'-0.C.	
	Schizocorym scoparium 'Mmblue A'	BLUE HEAVEN LITTLE BLUESTEM	1 GAL.	Cont., 4'-0.C.	
	Sporobolus heterolepis	PRAIRIE DROPSEED	1 GAL.	Cont., 4'-0.C.	



- PROVIDE 3" MIN. DEPTH SHREDDED HARDWOOD MULCH ON ALL INDIVIDUAL TREES WITH A 5' DIAMETER MINIMUM MULCH RING.
- SEED AREAS AS INDICATED ON PLANS WITH TYPE 1 PERMANENT LAWN MIXTURE AS PER SUDAS SPECIFICATIONS SECTION 9010. INSTALL AND MAINTAIN PER OWNER'S REQUIREMENTS.
- CONTRACTOR TO INSTALL 2 INCH WASHED RIVER ROCK MULCH, TO A DEPTH OF 3 INCHES WITH WEED BARRIER FABRIC UNDERLAYMENT IN ALL BEDS. PROVIDE SAMPLE OF ROCK MULCH TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- BEDS SHALL BE VERTICAL CUT NATURAL EDGE TO A DEPTH OF 4 INCHES IN ALL BED AREAS ADJACENT TO LAWN, UNLESS OTHERWISE DIRECTED BY OWNER.

3 TYPICAL UNIT PLANTINGS
10 NO SCALE

PLANTING PLAN GENERAL NOTES

- UTILITY WARNING: THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
- NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION.
- ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY, HEALTHY, FREE OF DISEASE AND INSECTS AND SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS. ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-LATEST EDITION). ALL PLANT MATERIAL SHALL BE GROWN IN ZONE CAPABLE OF WITHSTANDING LOCAL CLIMATE AND GROWING CONDITIONS. PLANTS SHALL BE TRUE TO SPECIES, SIZE AND VARIETY SPECIFIED. SUBSTITUTIONS OF PLANT MATERIALS IS NOT PERMITTED UNLESS AUTHORIZED IN WRITING BY THE ENGINEER.
- CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR THE DURATION OF THE ESTABLISHMENT AND WARRANTY PERIOD AS SPECIFIED. THE ESTABLISHMENT AND WARRANTY PERIOD IS ONE-YEAR FROM DATE OF PROJECT ACCEPTANCE. A PLANT INSPECTION SHALL BE MADE PRIOR TO THE END OF THE ESTABLISHMENT AND WARRANTY PERIOD. REPLACEMENTS OF PLANT MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING AND PROPOSED LANDSCAPING ON SITE FOR THE DURATION OF THE PROJECT, ESTABLISHMENT AND WARRANTY PERIOD. ONCE THE WARRANTY PERIOD HAS EXPIRED THE OWNER SHALL MAINTAIN THE REQUIRED LANDSCAPING FOR THE LIFE OF THE CERTIFICATE OF OCCUPANCY.
- PROVIDE CONTINUOUS MULCH BEDS AROUND ADJACENT SHRUB PLANTINGS AND ALL AREAS INDICATED ON THE PLAN. MULCH SHALL NOT BE PLACED AROUND THE COLLAR OF SHRUB OR TREE. PROVIDE A MINIMUM OF 2" BETWEEN MULCH AND COLLAR OF SHRUB OR TREE.

WILLOW RUN PLAT 1

PLANTING PLAN



Project No: 1160394

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MARK	REVISION	DATE	BY
1	REVISED PER CITY COMMENTS	09/08/17	AW/S

ENGINEER	CHECKED BY	DATE	PG.
KMM	BKC	08/18/17	1

TECHNICIAN	PROJECT NO.	SHEET
AW/S	1160394	10 of 10