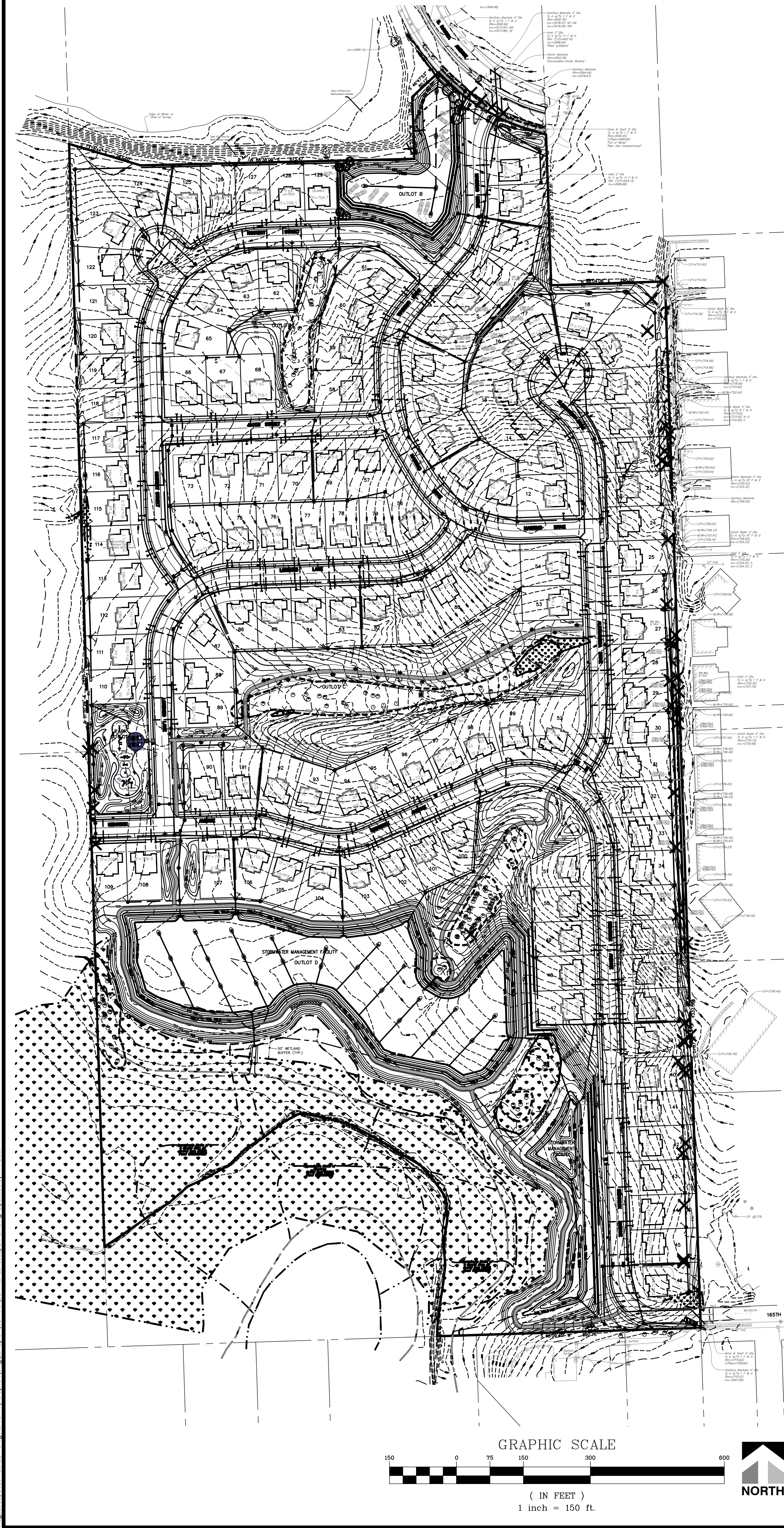


August 13, 2025 - 16:22 Dwg Name: P:\Projects\04\Landscaping\02-Final\02-Final Landscape Plan.dwg Updated By: mmlison



Removal and Mitigation

Tag	Species	DBH	Cond.	Status	Replacement Value
#1750	Gleditsia triacanthos	2x6"	Fair	Remove	Four (4) 2.5" Cal. or One (1) 4" Cal.
#1982	Gleditsia triacanthos	8"	Fair	Remove	Two (2) 2.5" Cal. or One (1) 4" Cal.
#1983	Gleditsia triacanthos	8"	Fair	Remove	Two (2) 2.5" Cal. or One (1) 4" Cal.
#1984	Ulmus parvifolio	10"	Good	Remove	One (1) 2.5" Cal.
#1985	Ulmus parvifolio	10"	Good	Remove	One (1) 2.5" Cal.
#1828	Acer x freemanii	10"	Good	Remove	Two (2) 2.5" Cal. or One (1) 4" Cal.
#1829	Pyrus calleryana	9"	Fair	Remove	None- Not Protected
#1831	Morus alba	12"	Fair	Remove	None- Not Protected
#1832	Ulmus pumila	7"	Fair	Remove	None- Not Protected
#1833	Ulmus pumila	8"	Fair	Remove	None- Not Protected
#1834	Juniperus virginiana	24' ht. est.	Good	Remove	Six (6) 6' ht. or Three (3) 10' ht.
#1836	Pinus strobus	30' ht. est.	Good	Remove	Six (6) 6' ht. or Three (3) 10' ht.
#1837	Picea pungens	46' ht. est.	Good	Remove	Three (3) 6' ht. or Two (2) 10' ht.
#1827	Morus alba	14"	Good	Remove	None- Not Protected
#1825	Ulmus americana	13"	Fair	Remove	Four (4) 2.5" Cal. or Two (2) 4" Cal.
#1826	Ulmus americana	25"	Dead	Remove	None- Dead
#1821	Ulmus pumila	8"	Fair/Poor	Remove	None- Not Protected
#1820	Ulmus pumila	14"	Fair/Poor	Remove	None- Not Protected
#1819	Ulmus pumila	22"	Fair/Poor	Remove	None- Not Protected
#1816	Morus alba	2x9"	Fair	Remove	None- Not Protected
#1813	Morus alba	3x7"	Fair	Remove	None- Not Protected
#1802	Ulmus pumila	18"	Fair	Remove	None- Not Protected
#1801	Pyrus calleryana	8"	Fair	Remove	None- Not Protected
#1953	Gleditsia triacanthos	8"	Fair	Remove	Two (2) 2.5" Cal. or One (1) 4" Cal.
#1954	Morus alba	3x9"	Fair	Remove	None- Not Protected
#1854	Malus spp.	10"	Fair	Remove	One (1) 2.5" Cal.
#1853	Malus spp.	14"	Fair	Remove	Two (2) 2.5" Cal. or One (1) 4" Cal.
#1851	Pyrus calleryana	9"	Fair	Remove	None- Not Protected
#1850	Ulmus pumila	8"	Fair	Remove	None- Not Protected
#1897	Rhamnus cathartica	9"	Fair	Remove	None- Not Protected
#1838	Pyrus calleryana	10"	Fair	Remove	None- Not Protected
#1839	Acer saccharinum	2x7"	Fair	Remove	None- Not Protected
#1840	Pyrus calleryana	3x10"	Fair	Remove	None- Not Protected
#1841	Betula nigra	2x7"	Good	Remove	Four (4) 2.5" Cal. or One (1) 4" Cal.
#1842	Pyrus calleryana	2x10"	Fair	Remove	None- Not Protected
#1844	Acer platanoides	13"	Good	Remove	None- Not Protected
#1845	Salix fragilis	9"	Fair/Poor	Remove	None- Not Protected
#1846	Morus alba	8"	Fair	Remove	None- Not Protected
#1847	Pyrus calleryana	7"	Fair	Remove	None- Not Protected
#1848	Ulmus pumila	9"	Fair	Remove	None- Not Protected
#1849	Ulmus pumila	11"	Fair	Remove	None- Not Protected
#1876	Populus deltoides	19"	Fair	Remove	None- Not Protected
#1952	Pyrus calleryana	10"	Fair	Remove	None- Not Protected
#1955	Unknown	?	?	Remove	None- Not Surveyed, Unqualified
#1956	Unknown	?	?	Remove	None- Not Surveyed, Unqualified
Lot 44	Unknown	?	?	Remove	None- Not Surveyed, Unqualified

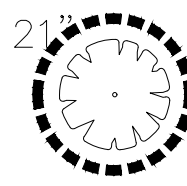
All trees not listed are to be preserved per plan and attached spreadsheet
Total Replacement = Replace w/ (25) 2.5" or (9) 4" (3) 2.5" and (15) 6' ht or (8) 10' ht.

ON PLAN- 25 Shade Trees (2.5") and 15 Evergreen Trees (6' ht.) provided for mitigation. Additional non-ordinance required trees also provided above and beyond mitigation requirements.

Legend



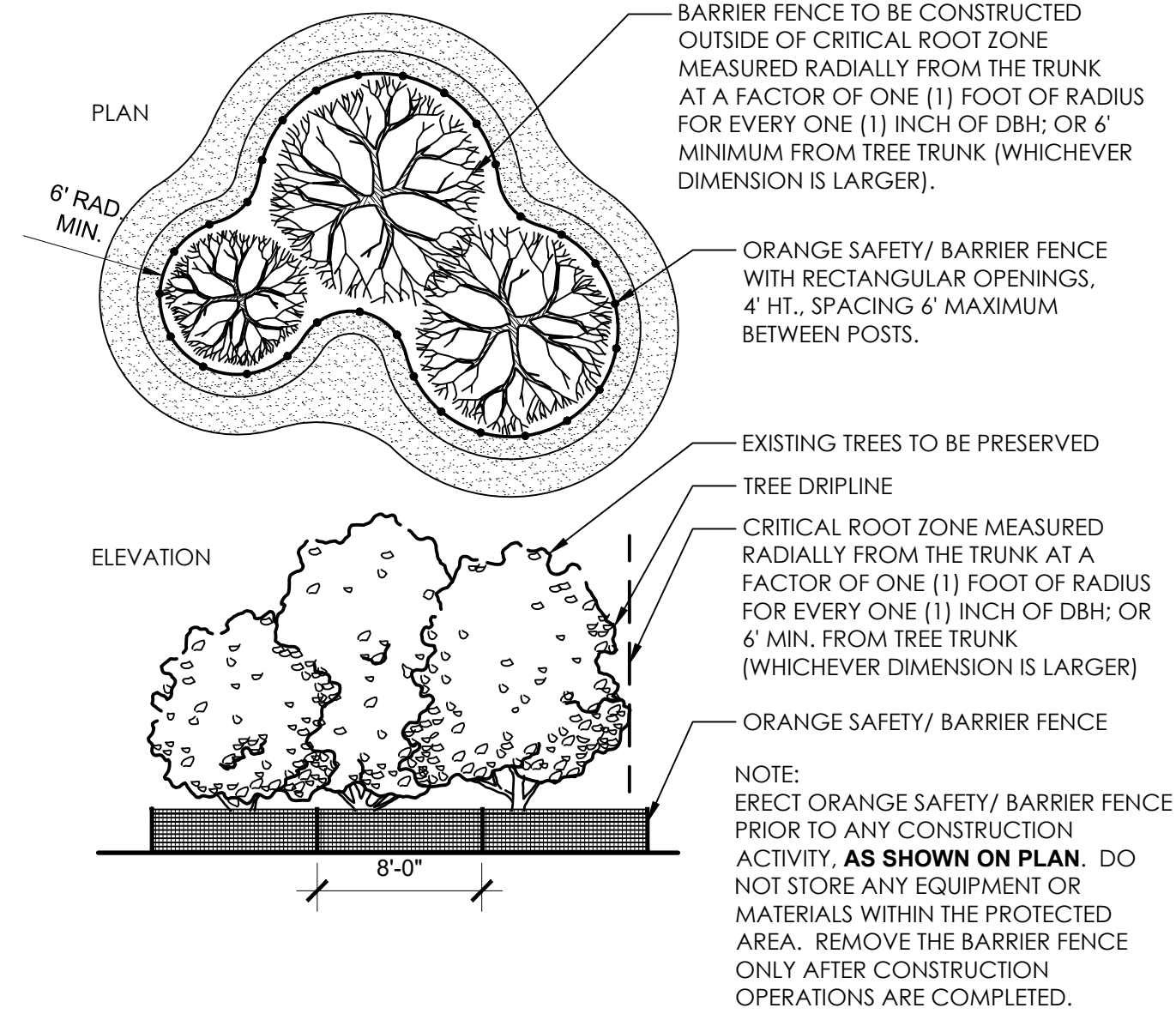
Tree to be Removed



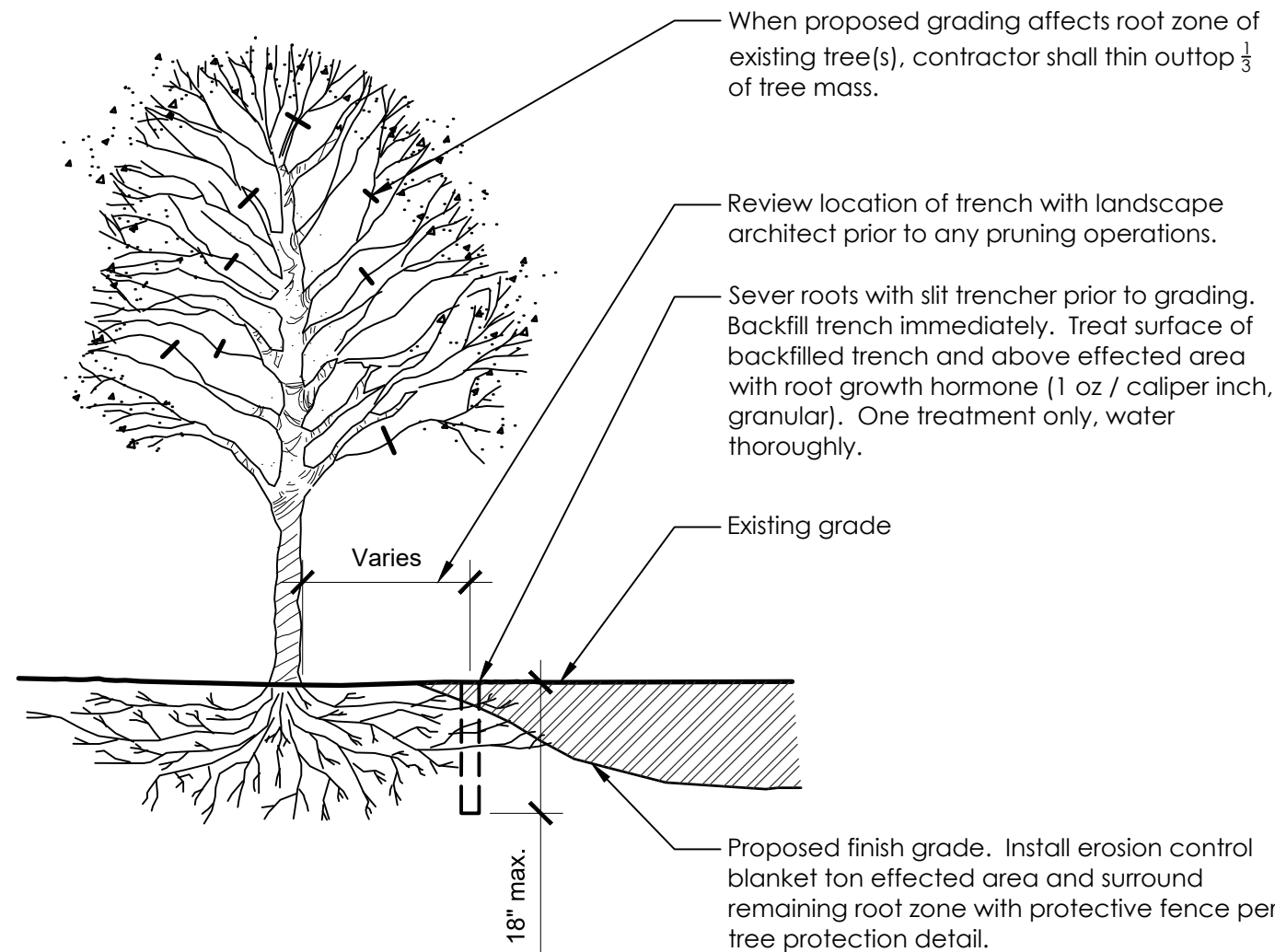
Protective Fencing for Tree to be Preserved



Vulnerable Area



1 TREE PROTECTION PLAN
N.T.S. 320190.33-01



2 GRADING NEAR EXISTING TREE TECHNIQUE
1/4" = 1'-0" 320190.33-02

Root Pruning

Existing tree roots greater than one (1) inch in diameter, measured at the edge of excavation, shall be pruned within 24 hours of the time they have been damaged by construction activity. The severed root shall be pruned at the edge of excavation, or one (1) inch beyond the entire damaged portion of the tree root, if damaged root extends beyond the edge of excavation into undisturbed soil.

All cuts shall be cleanly made with sharp tools.

The excavated area around the existing tree roots shall be backfilled as soon as construction activities permit.

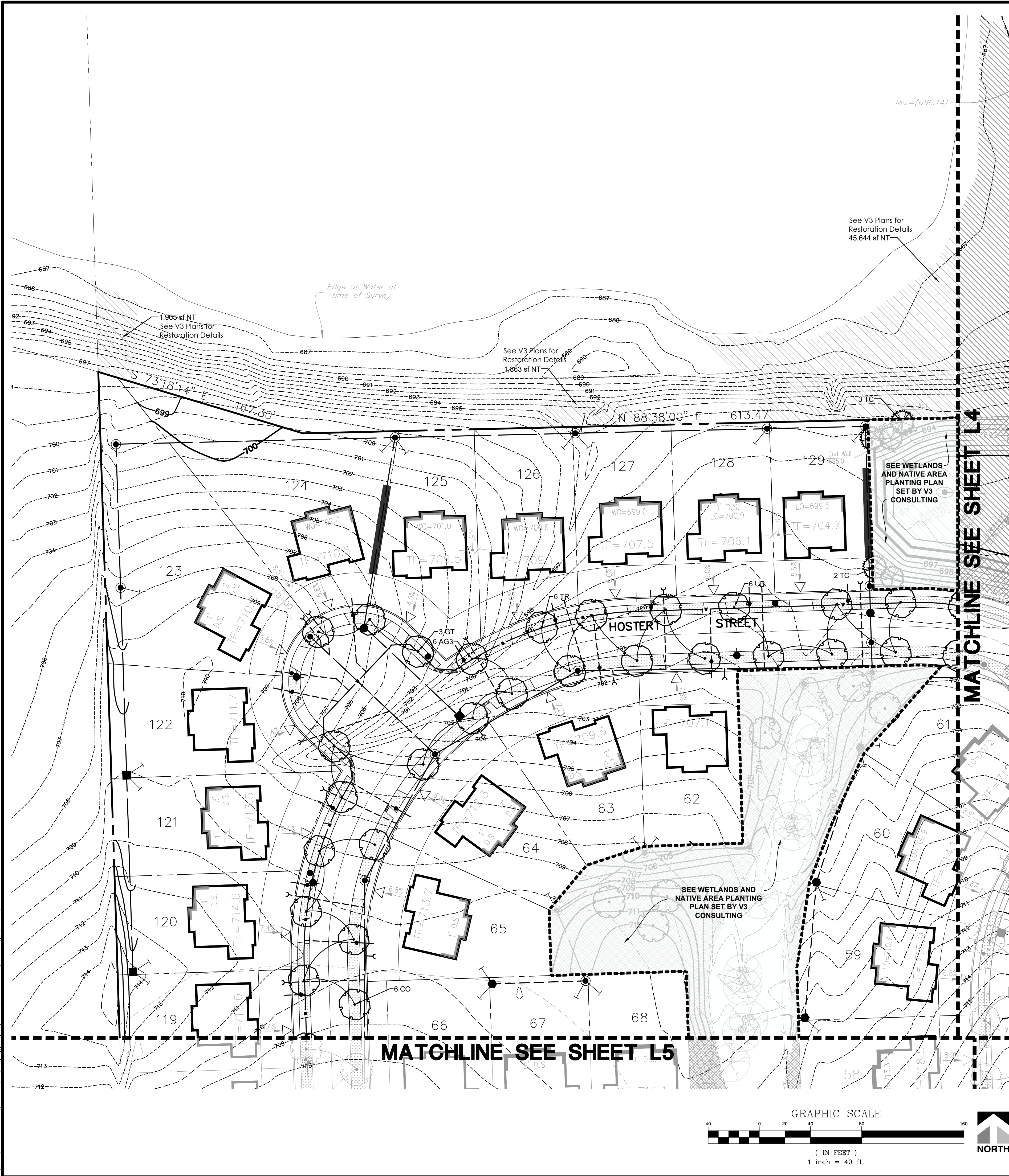
Amended existing soil shall be used as backfill material within the disturbed root zone areas not receiving drainage or subbase stone items. Amended existing soil shall be amended with peat or compost in the ratio of one part organic to seven parts existing soil.

Vulnerable Area Protection Methods

All tree root zones designated as "Vulnerable" shall receive special care and attention during construction. These areas contain roots for large trees that are within the construction area. Since these trees have high value to the project, efforts shall be made to preserve these trees, however the property owner will not be held liable if the trees do not survive.

An arborist should be consulted prior to construction to provide advice on preservation techniques. Each tree and construction condition is unique so an arborist is best qualified to provide a recommendation for each tree. Preservations may include root pruning, crown pruning, hormone treatment, fertilizers, soil amendments, excavation techniques, etc.

DRAWN BY	REVISIONS	DATE
MN	08/15/25 REVISED PER NEW BMP AT ENTRANCE	
MN	08/12/25 REVISED PER VILLAGE COMMENTS	
MN	08/08/25 REVISED PER VILLAGE COMMENTS	
MN	11/27/24 REVISED PER VILLAGE COMMENTS	
MN	11/09/24 REVISED PER VILLAGE COMMENTS	
MN	09/27/24 REVISED PER VILLAGE COMMENTS	



PLANT SCHEDULE

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AC5	Abies concolor	Non Native
PA2	Picea abies	Non Native
PB	Picea glauca densata	Non-Native (To Region)
PS	Pinus strobus	Native
TC	Tsuga canadensis	Native
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AS	Acer saccharum	Native
AX	Acer x freemanii	Native
CO	Celtis occidentalis	Native
GT	Gleditsia triacanthos f. inermis	Native
GK	Gymnocladus dioicus	Native
QM	Quercus macrocarpa	Native
QR	Quercus rubra	Native
TR	Tilia americana 'Redmond'	Native
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ORNAMENTAL TREES		
AX2	Amelanchier x grandiflora	Native
CE	Cercis canadensis	Native

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AG2	Aronia melanocarpa 'UCONNAM012'	Native
AM2	Aronia melanocarpa elata	Native
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CL3	Cephalanthus occidentalis 'SMCBC'	Native
CG	Cornus racemosa	Native
CA6	Corylus americana	Native
HA	Hydrangea arborescens 'Annabelle'	Native
HV2	Hydrangea arborescens 'NCHA3'	Native
IO	Ilex verticillata 'Roberta Case'	Native
LB	Lindera benzoin	Native
PL	Potentilla fruticosa 'Lundy'	Native
RL	Rosa rugosa 'Purple Pavement'	Not Native
R4	Rosa x 'Meidrifora'	Non Native
VV	Viburnum trilobum 'J.N. Select'	Native

EVERGREEN SHRUBS		
JD	Juniperus chinensis 'Daub's Frosted'	Non Native
JP	Juniperus chinensis 'Kallays Compact'	Non Native
JB	Juniperus virginiana 'Blue Mountain'	Native
JB3	Juniperus virginiana 'Burkii'	Native
TB2	Thuja occidentalis 'Brabant'	Native
TT2	Thuja occidentalis 'Techny'	Native

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AB	Andropogon gerardii 'Blackhawks'	Native
CK	Calamagrostis x acutiflora 'Karl Foerster'	Non Native
CP	Carex pensylvanica	Native
DG	Deschampsia cespitosa 'Goldtau'	Native
PS3	Panicum virgatum 'Shenandoah'	Native
SL	Schizachyrium scoparium	Native
SN	Sorghastrum nutans	Native
SH	Sporobolus heterolepis	Native

GROUND COVERS		
TS	Turf- Seed and Blanket	To be Drill Seeded and covered with Erosion Control Blanket
TB	Turf- Sod Bluegrass	100% Kentucky Bluegrass (min. 4 varieties)

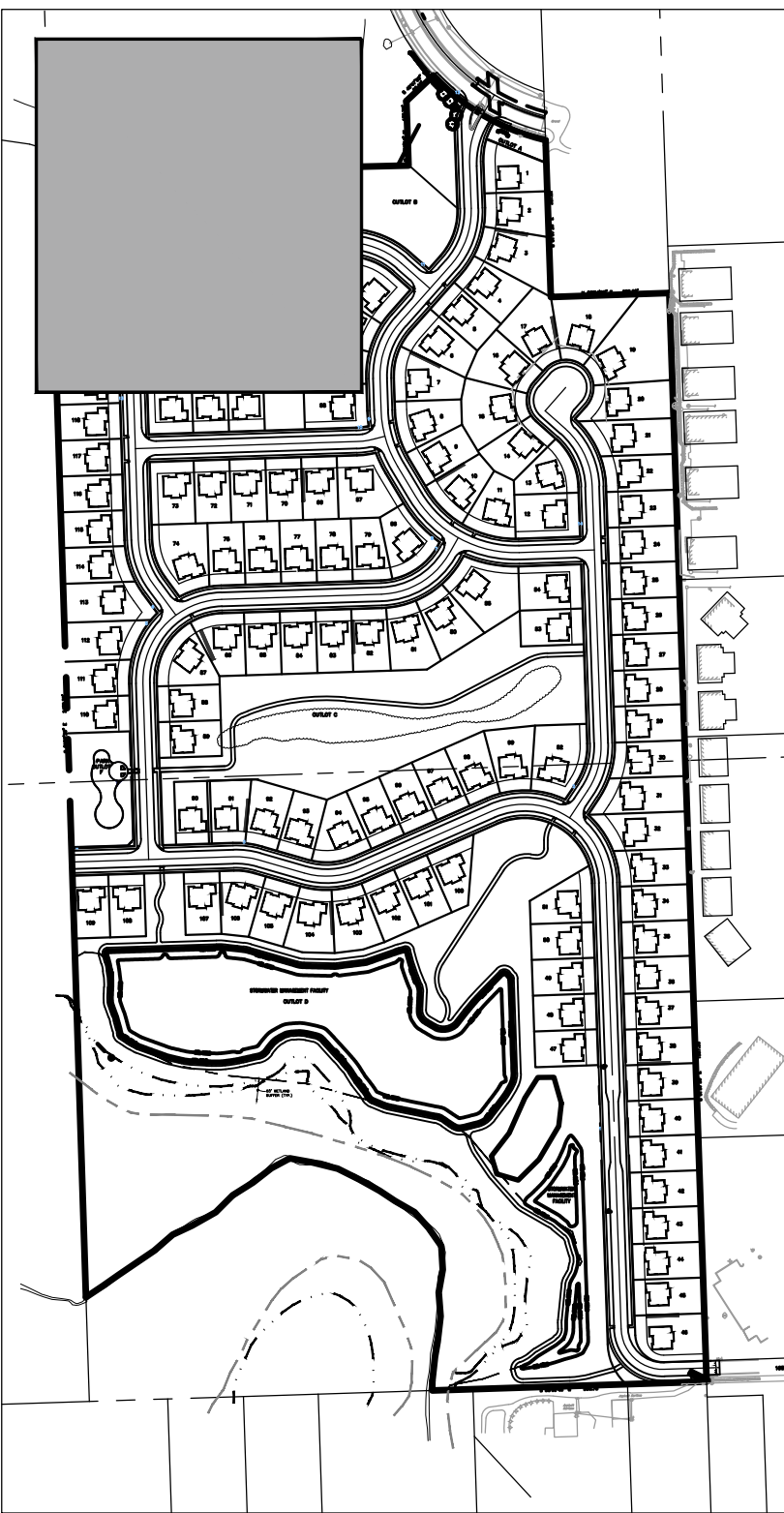
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NC	Nepeta x 'Cat's Pajamas'	Non Native
PJ	Phlox paniculata 'Jeana'	Native
RH	Rudbeckia hirta	Native
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NATIVE SEED MIXES		
NE	Native Seed Mix	SEE NATIVE PLANTING PLANS PREPARED BY V3 CONSULTING
NT	Native Seed Mix	SEE NATIVE PLANTING PLANS PREPARED BY V3 CONSULTING
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CONCEPT PLANT SCHEDULE

	STORMWATER AREA NATIVE CANOPY TREE SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING	93
	STORMWATER AREA NATIVE ORNAMENTAL TREE SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING	20
	EXISTING SHADE TREE TO BE PRESERVED	150
	EXISTING EVERGREEN TREE TO BE PRESERVED	6
	STORMWATER AREA SHRUB SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING	232

NOTE:
PLANTING PLAN AND LOCATIONS OF TREES/SHRUBS SHOWN IN THE STORMWATER MANAGEMENT AREA SUBJECT TO CHANGE. PLANS TO BE PREPARED BY V3. QUANTITIES OF TREES/SHRUBS WILL REMAIN AS SHOWN, THOUGH PLACEMENT MAY DIFFER.



KEY MAP

Landscape Notes:

- Seed/ Sod limit line is approximate. Seed/ Sod to limits of grading and disturbance. Contractor responsible for restoration of any unauthorized disruption outside of designated construction area.
 - Contractor responsible for erosion control in all seeded/ sodded areas.
 - Tree mulch rings in turf areas are 5' diameter. Contractor shall provide a mulch ring around all existing trees within the limits of work. Remove all existing grass from area to be mulched and provide a typical spade cut edge. Landscape Fabric shall not be installed under mulch.
 - Bedlines are to be spade cut to a minimum depth of 3". Curved bedlines are to be smooth and not segmented.
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DRAWN BY

REVISIONS

DATE

07/15/25 REVISED PER NEW BMP AT ENTRANCE

05/12/25 REVISED PER VILLAGE COMMENTS

04/23/25 REVISED PER NEW BASIN AT ENTRANCE

MN

MN

MN

Manhard CONSULTING LTD.

700 Ravinia Plaza, Suite 100, Oak Brook, IL 60110
Cell: 630.584.8888 Fax: 630.584.8889
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners

ESTATES AT RAVINIA MEADOW

VILLAGE OF ORLAND PARK, ILLINOIS

FINAL LANDSCAPE PLAN

PROJ. MGR.: MN

PROJ. ASSOC.: MN

DRAWN BY: MN

DATE: 03/14/25

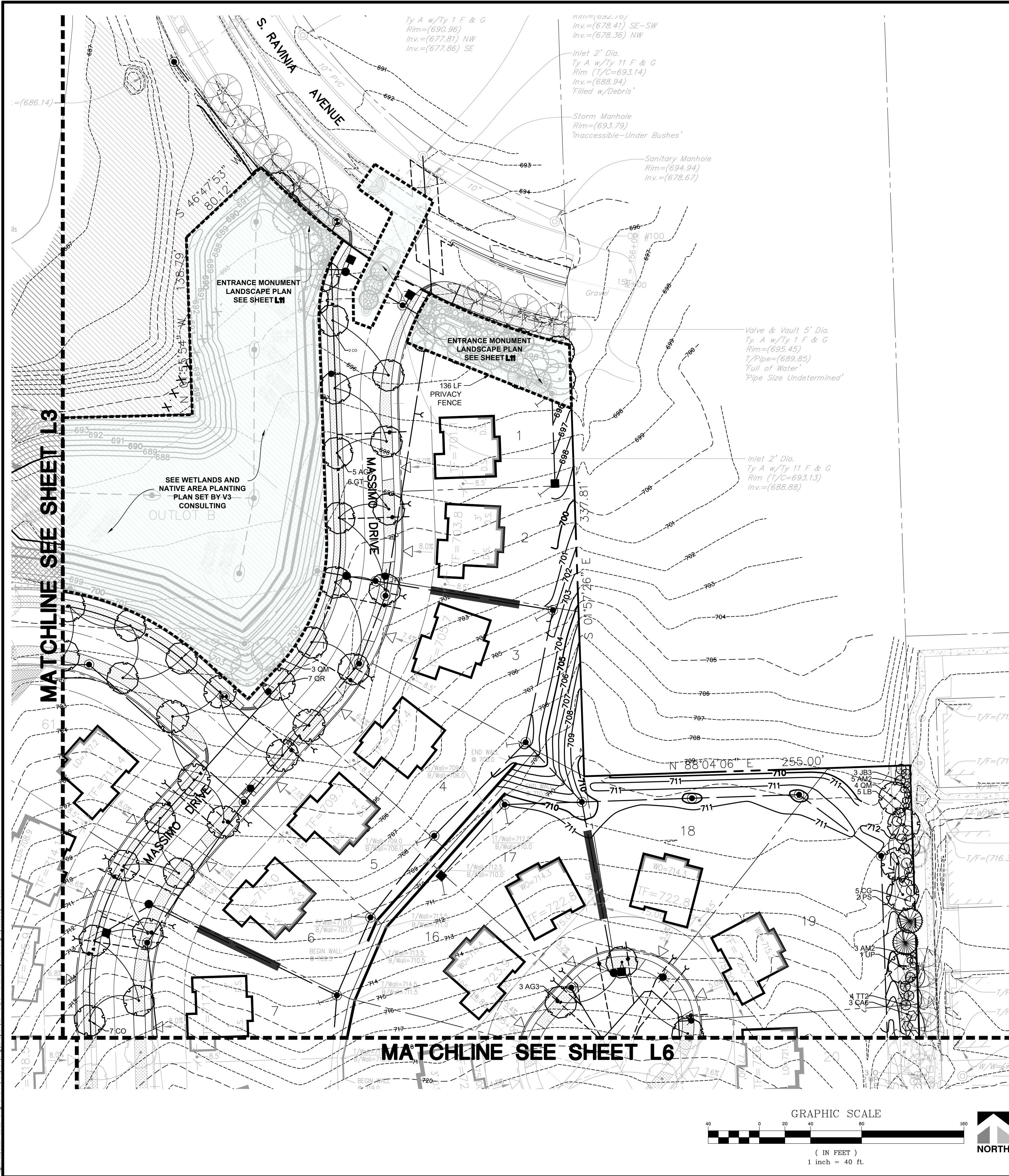
SCALE: 1" = 40'

SHEET

L3 OF L14

PUL.OPILO4

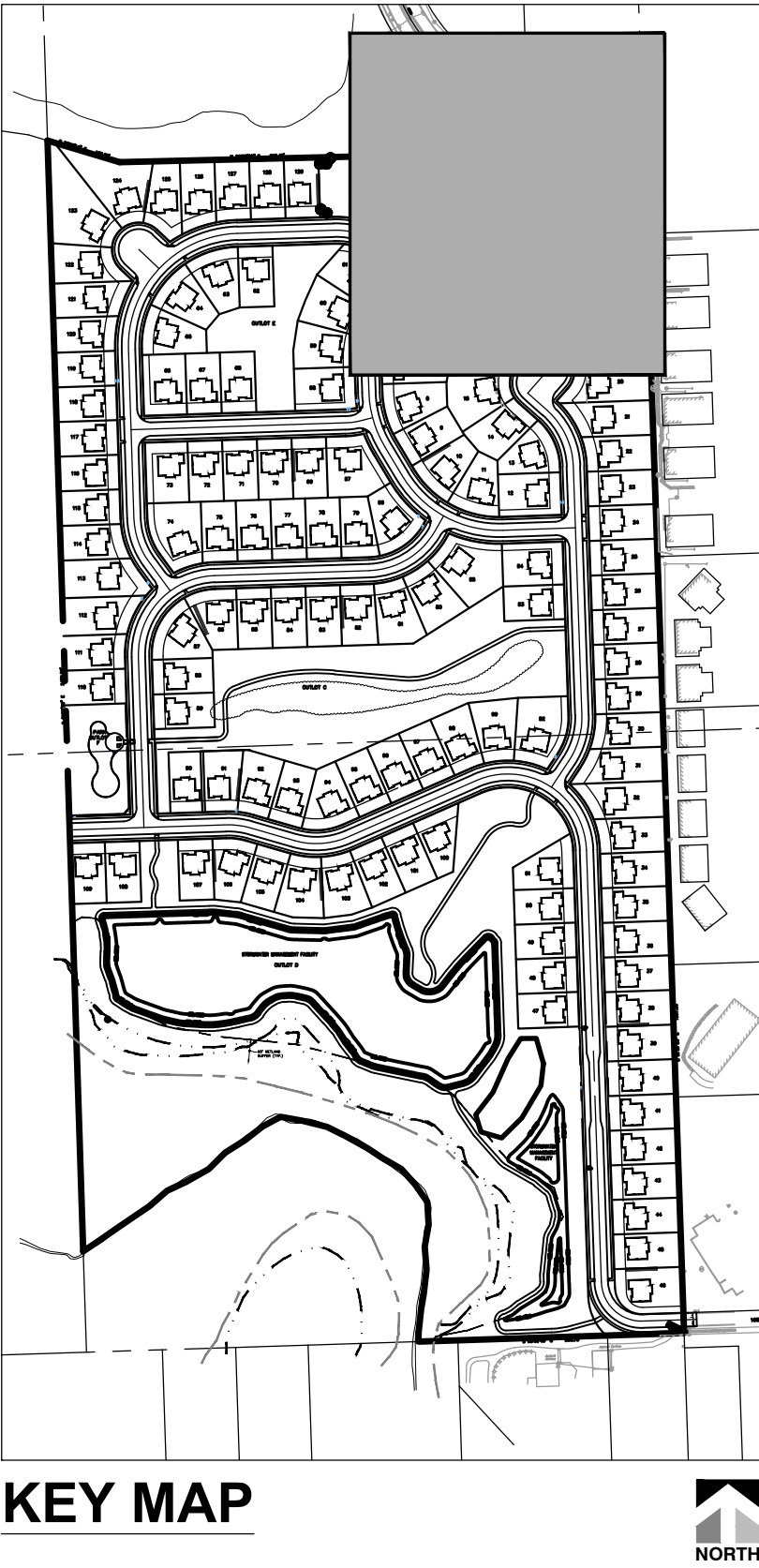
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700 Ravinia Park, Suite 100, Oak Brook, IL 60110
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VILLAGE OF ORLAND PARK, ILLINOIS

FINAL LANDSCAPE PLAN

PROJ. MGR.: MN

PROJ. ASSOC.: MN

DRAWN BY: MN

DATE: 03/14/25

SCALE: 1"=40'

SHEET

L4 OF L14

PUL.OPIL04

DRAWN BY

REVISIONS

DATE

08/15/25 REVISED PER NEW BMP AT ENTRANCE

05/12/25 REVISED PER VILLAGE COMMENTS

04/23/25 REVISED PER NEW BASIN AT ENTRANCE

MN

MN

MN

August 13, 2025 - 16:22 Dwg Name: P:\Pulop\04\Land\02-Final\02-Final Landscape Plan.dwg Updated By: mmlsion



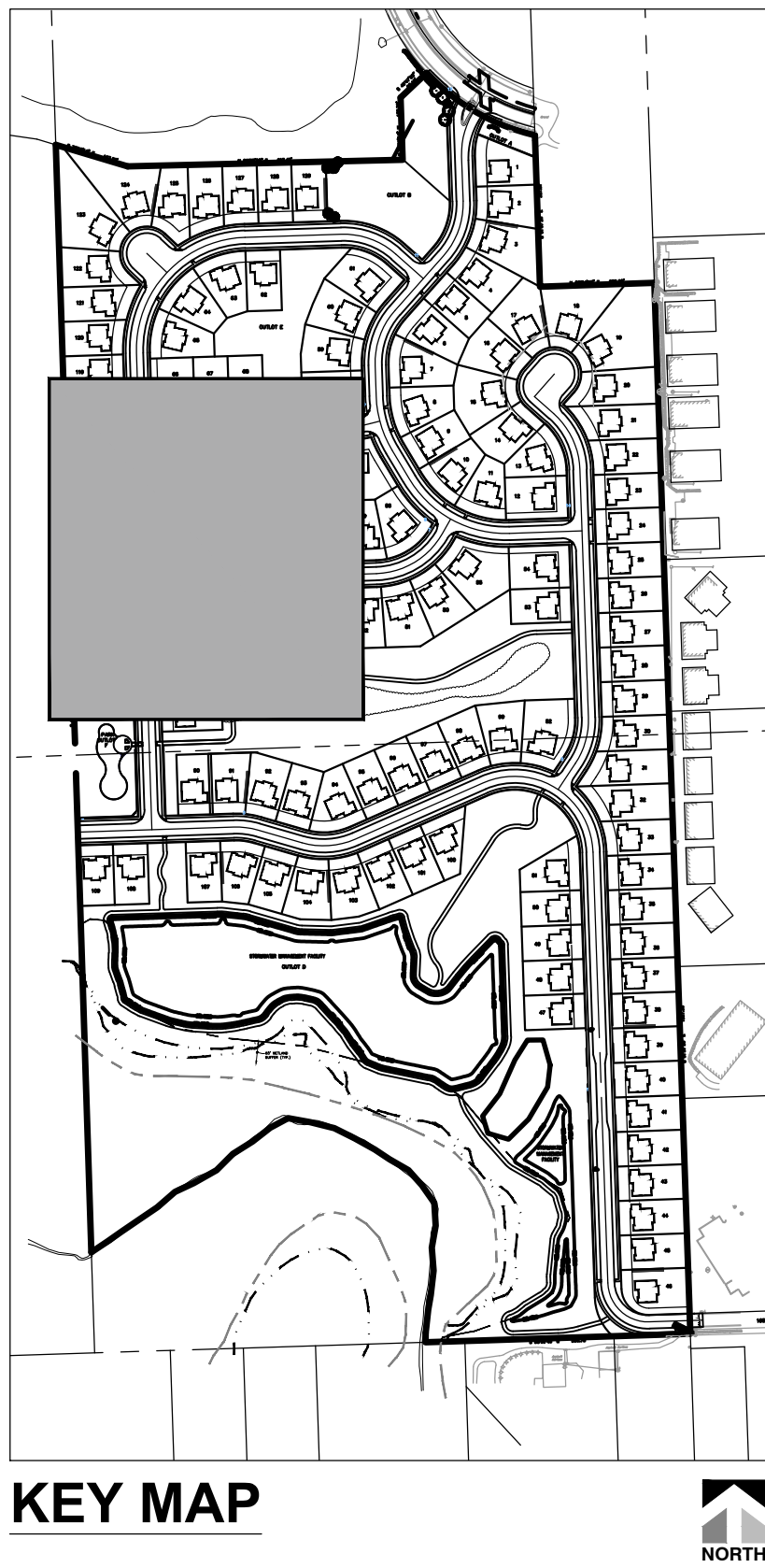
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RH2	Ruellia humilis	Native
NATIVE SEED MIXES		
NE	Native Seed Mix	SEE NATIVE PLANTING PLANS PREPARED BY V3 CONSULTING
NT	Native Seed Mix	SEE NATIVE PLANTING PLANS PREPARED BY V3 CONSULTING
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CONCEPT PLANT SCHEDULE

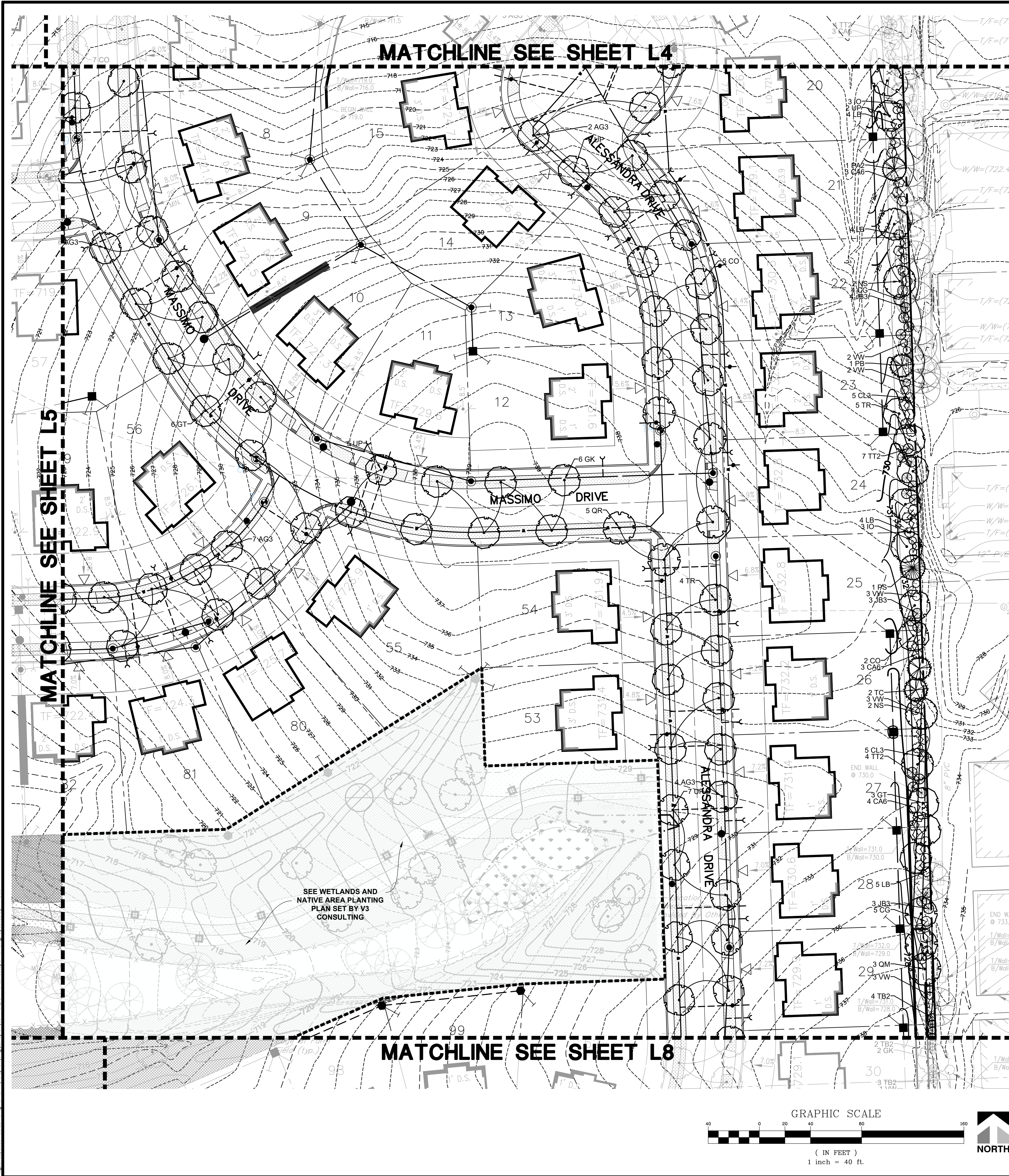
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	STORMWATER AREA NATIVE ORNAMENTAL TREE SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING	20
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	EXISTING EVERGREEN TREE TO BE PRESERVED	6
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PLANT SCHEDULE

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AC5	Abies concolor	Non Native
PA2	Picea abies	Non Native
PB	Picea glauca densata	Non-Native (To Region)
PS	Pinus strobus	Native
TC	Tsuga canadensis	Native
DECIDUOUS TREES		
AS	Acer saccharum	Native
AX	Acer x freemanii	Native
CO	Celtis occidentalis	Native
GT	Gleditsia triacanthos f. inermis	Native
GK	Gymnocladus dioicus	Native
QM	Quercus macrocarpa	Native
QR	Quercus rubra	Native
TR	Tilia americana 'Redmond'	Native
UP	Ulmus americana 'Princeton'	Native

ORNAMENTAL TREES		
AX2	Amelanchier x grandiflora	Native
CE	Cercis canadensis	Native

DECIDUOUS SHRUBS		
AG2	Aronia melanocarpa 'UCONNAM012'	Native
AM2	Aronia melanocarpa elata	Native
CA5	Ceanothus americanus	Native
CL3	Cephalanthus occidentalis 'SMCBC'	Native
CG	Cornus racemosa	Native
CA6	Corylus americana	Native
HA	Hydrangea arborescens 'Annabelle'	Native
HV2	Hydrangea arborescens 'NCHA3'	Native
IO	Ilex verticillata 'Roberta Case'	Native
LB	Lindera benzoin	Native
PL	Potentilla fruticosa 'Lundy'	Native
RL	Rosa rugosa 'Purple Pavement'	Not Native
R4	Rosa x 'Meidrifora'	Non Native
VV	Viburnum trilobum 'J.N. Select'	Native

EVERGREEN SHRUBS		
JD	Juniperus chinensis 'Daub's Frosted'	Non Native
JP	Juniperus chinensis 'Kallays Compact'	Non Native
JB	Juniperus virginiana 'Blue Mountain'	Native
JB3	Juniperus virginiana 'Burkii'	Native
TB2	Thuja occidentalis 'Brabant'	Native
TT2	Thuja occidentalis 'Techny'	Native

ORNAMENTAL GRASSES		
AB	Andropogon gerardii 'Blackhawks'	Native
CK	Calamagrostis x acutiflora 'Karl Foerster'	Non Native
CP	Carex pensylvanica	Native
DG	Deschampsia cespitosa 'Goldtau'	Native
PS3	Panicum virgatum 'Shenandoah'	Native
SL	Schizachyrium scoparium	Native
SN	Sorghastrum nutans	Native
SH	Sporobolus heterolepis	Native

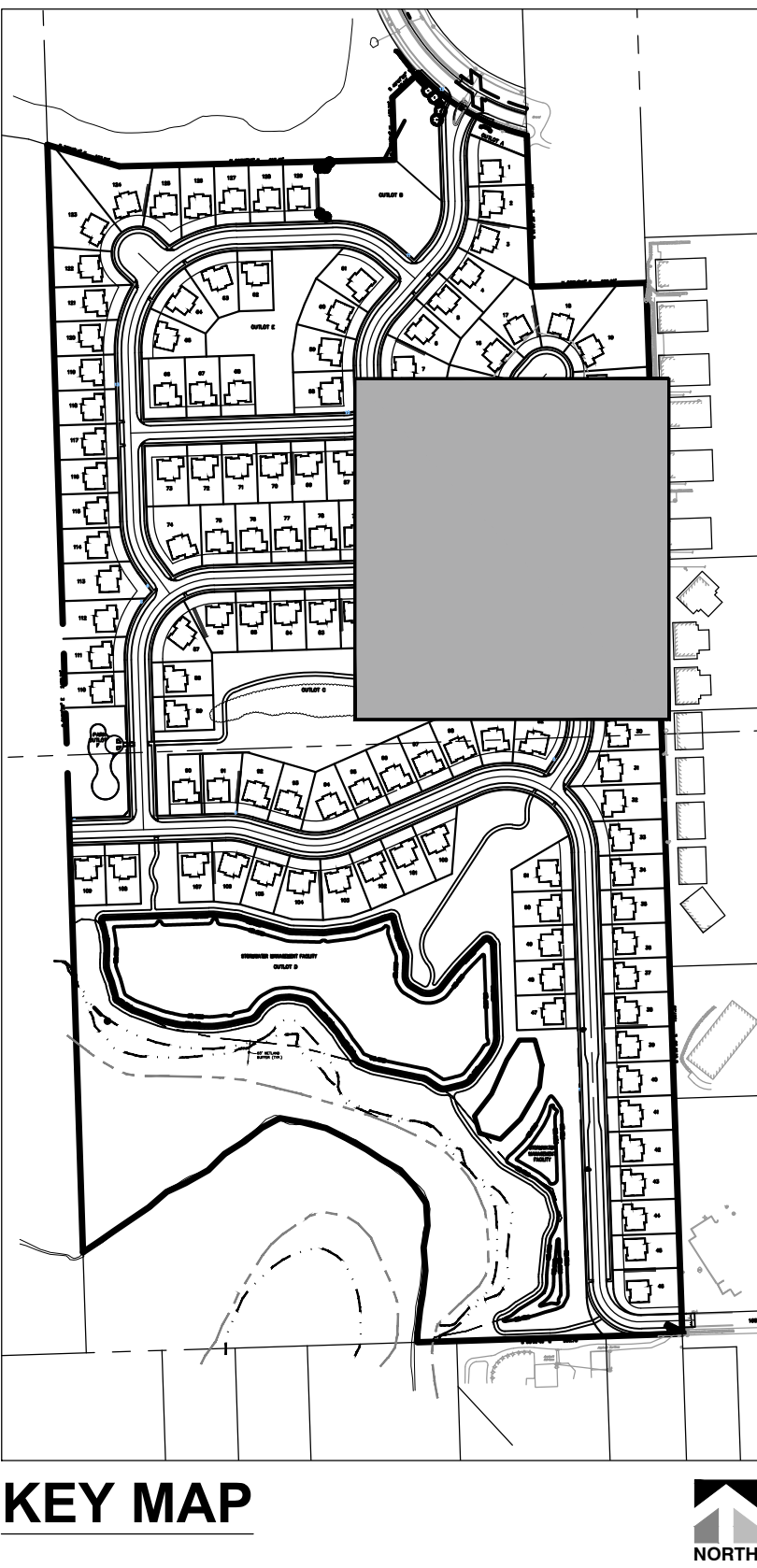
GROUND COVERS		
TS	Turf- Seed and Blanket	To be Drill Seeded and covered with Erosion Control Blanket
TB	Turf- Sod Bluegrass	100% Kentucky Bluegrass (min. 4 varieties)

PERENNIALS		
AC	Allium cernuum	Native
AC3	Anemone canadensis	Native
AT3	Asclepias tuberosa	Native
C13	Callirhoe involucrata	Non Native (To Region)
EW	Echinacea purpurea 'PAS702917'	Native
HT	Helioopsis helianthoides 'Tuscan Sun'	Native
NC	Nepeta x 'Cat's Pajamas'	Non Native
PJ	Phlox paniculata 'Jeana'	Native
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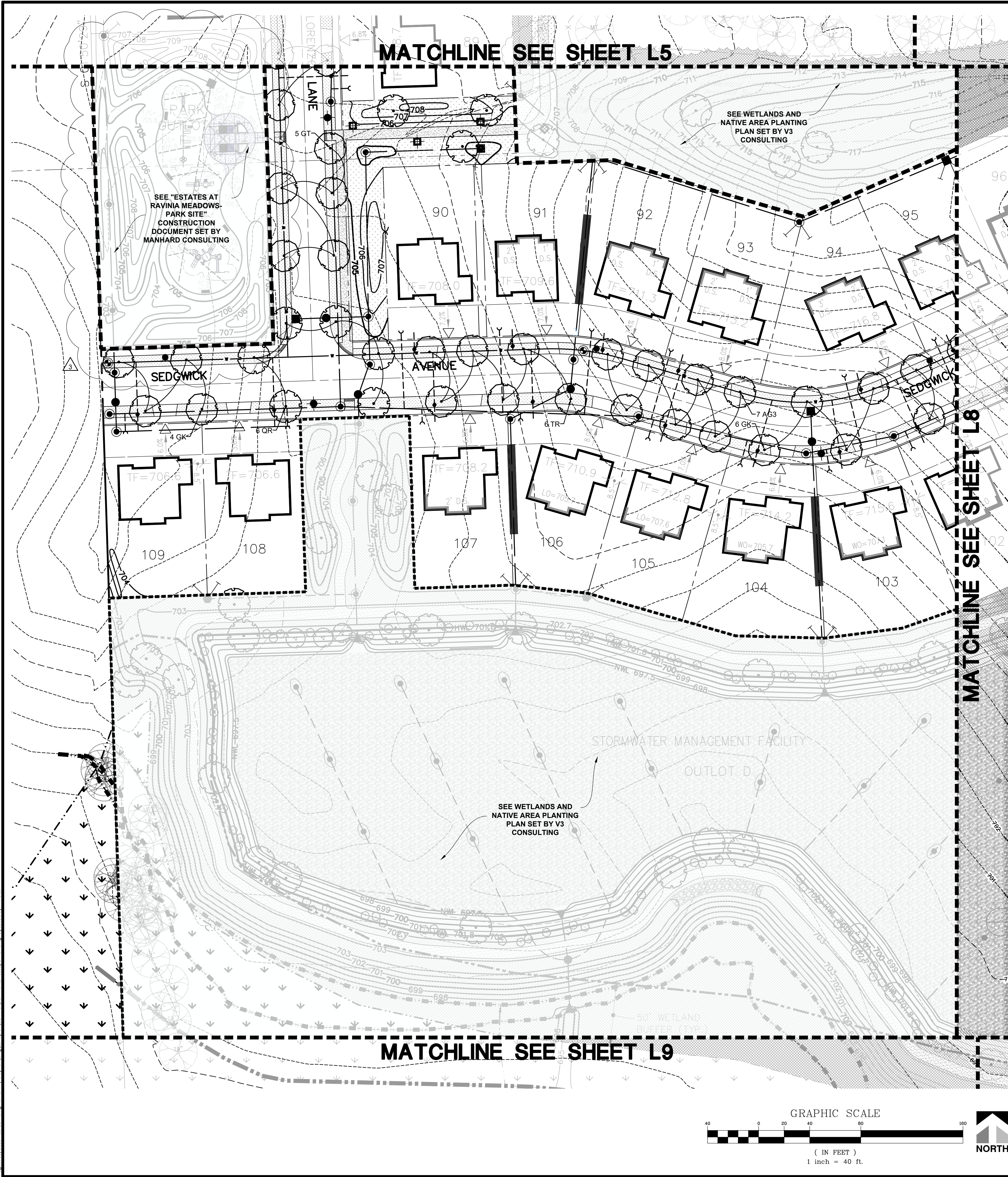
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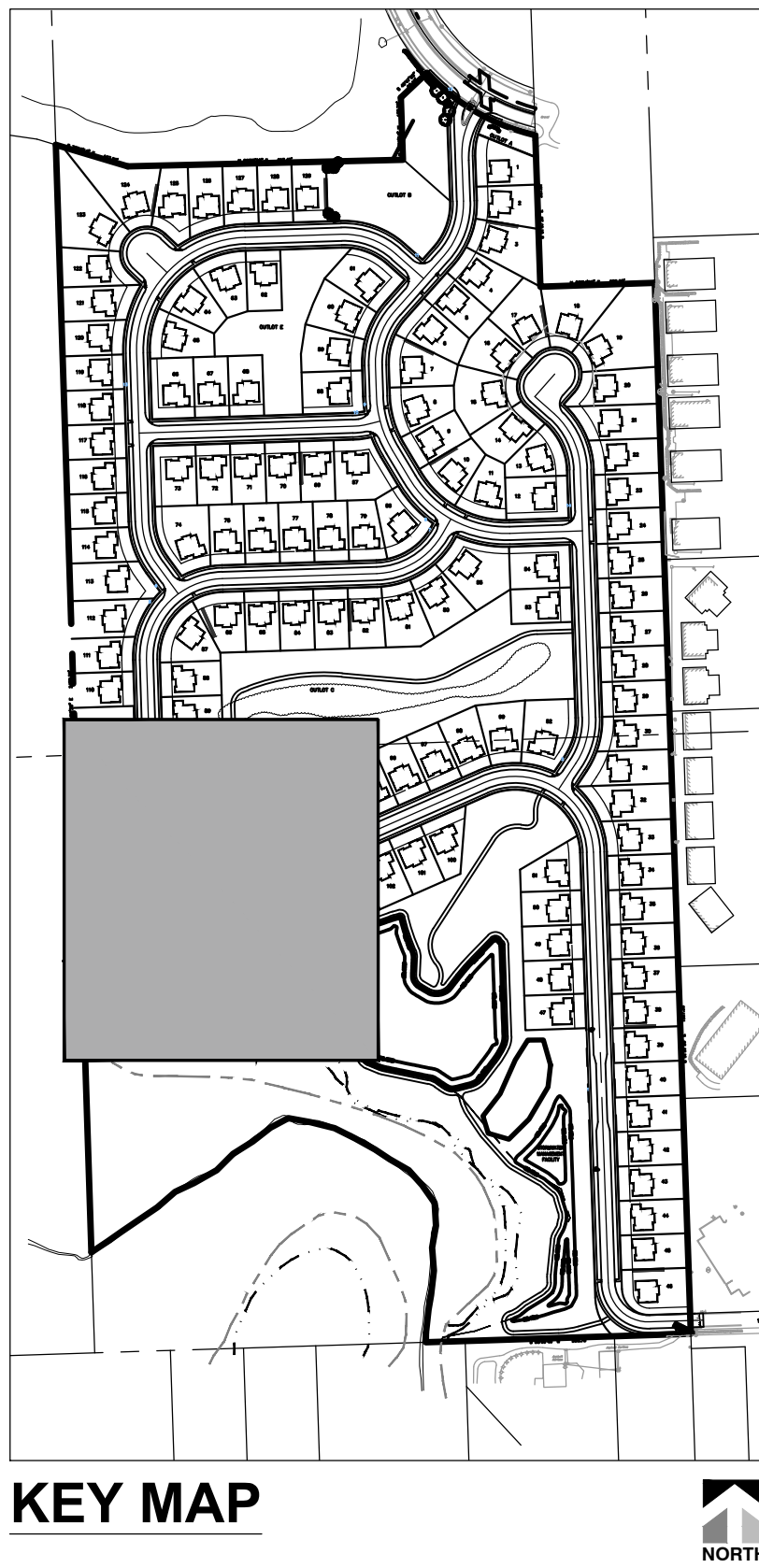
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CG	Cornus racemosa	Native
CA6	Corylus americana	Native
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HV2	Hydrangea arborescens 'NCHA3'	Native
IO	Ilex verticillata 'Roberta Case'	Native
LB	Lindera benzoin	Native
PL	Potentilla fruticosa 'Lundy'	Native
RL	Rosa rugosa 'Purple Pavement'	Not Native
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CP	Carex pensylvanica	Native
DG	Deschampsia cespitosa 'Goldtau'	Native
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DRAWN BY

REVISIONS

DATE

08/15/25

REVISED PER NEW BMP AT ENTRANCE

MN

05/12/25

REVISED PER VILLAGE COMMENTS

MN

04/23/25

REVISED PER NEW BASIN AT ENTRANCE

MN

Manhard

CONSULTING LTD.

700 Ravinia Park, Suite 200, Oak Brook, IL 60110
Cell Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners

ESTATES AT RAVINIA MEADOW

VILLAGE OF ORLAND PARK, ILLINOIS

FINAL LANDSCAPE PLAN

PROJ. MGR:

MN

PROJ. ASSOC:

MN

DRAWN BY:

MN

DATE:

03/14/25

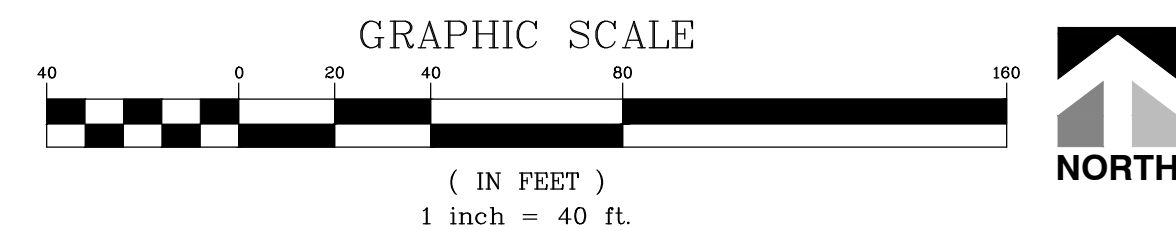
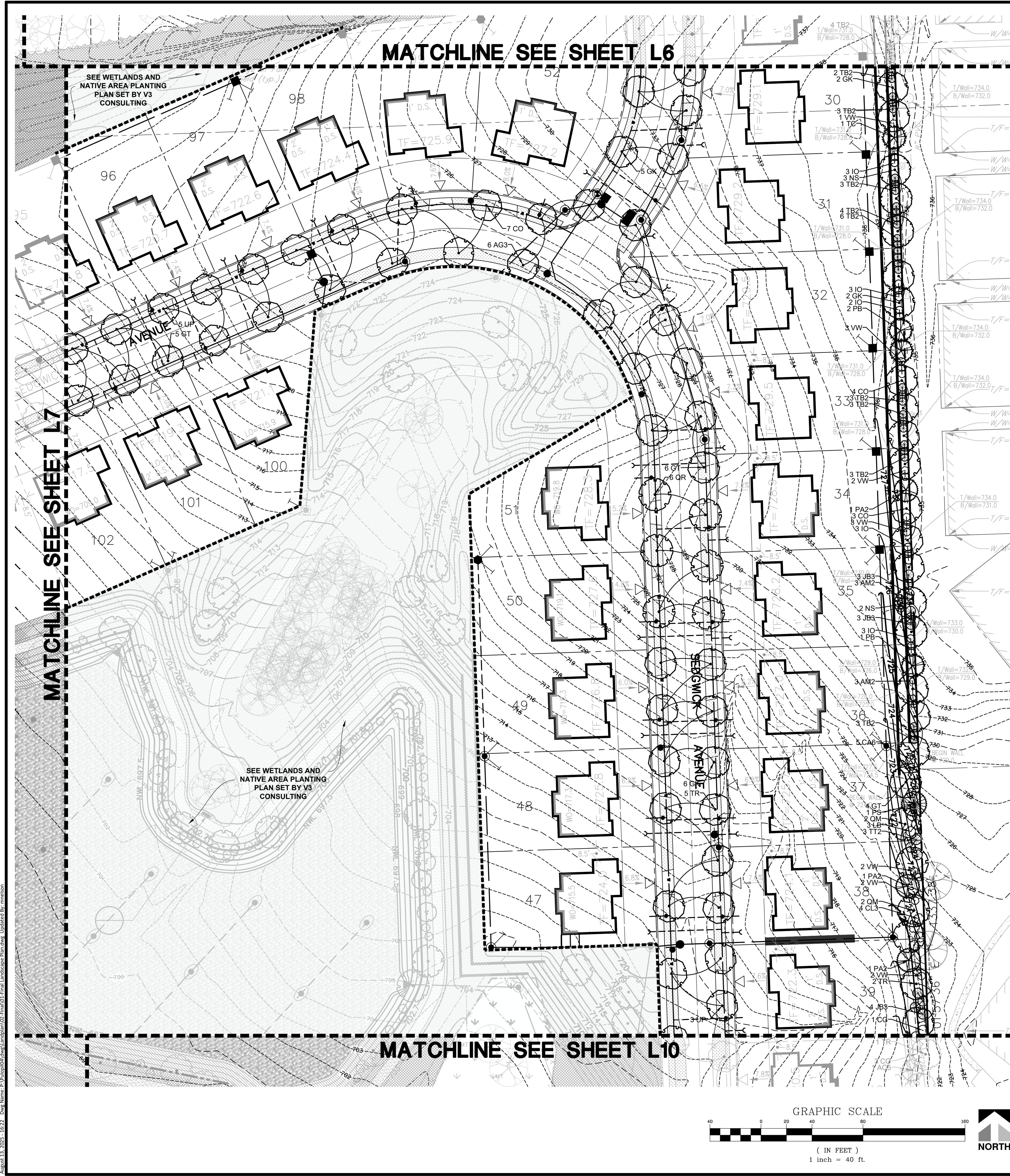
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L7 OF L14

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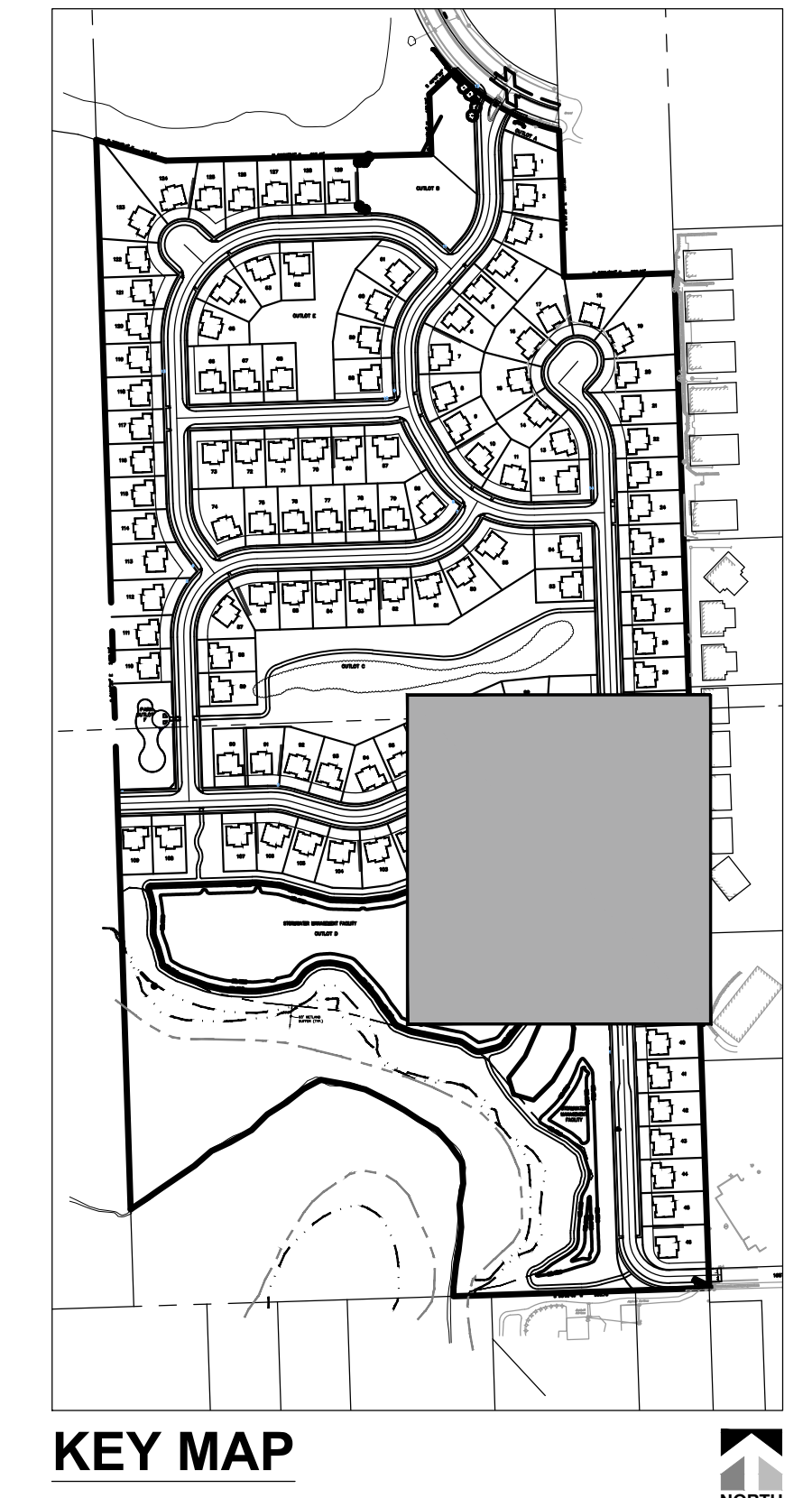


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708.581.1111 • Fax: 708.581.1112 • Email: info@manhardconsulting.com
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers • Construction Managers • Environmental Scientists • Landscape Architects • Planners

ESTATES AT RAVINIA MEADOW

VILLAGE OF ORLAND PARK, ILLINOIS

FINAL LANDSCAPE PLAN

DRAWN BY: MN

PROJ. ASSOC: MN

DRAWN BY: MN

DATE: 03/14/25

SCALE: 1"=40'

SHEET

L8 OF L14

PUL.OPILO4

DATE

REVISIONS

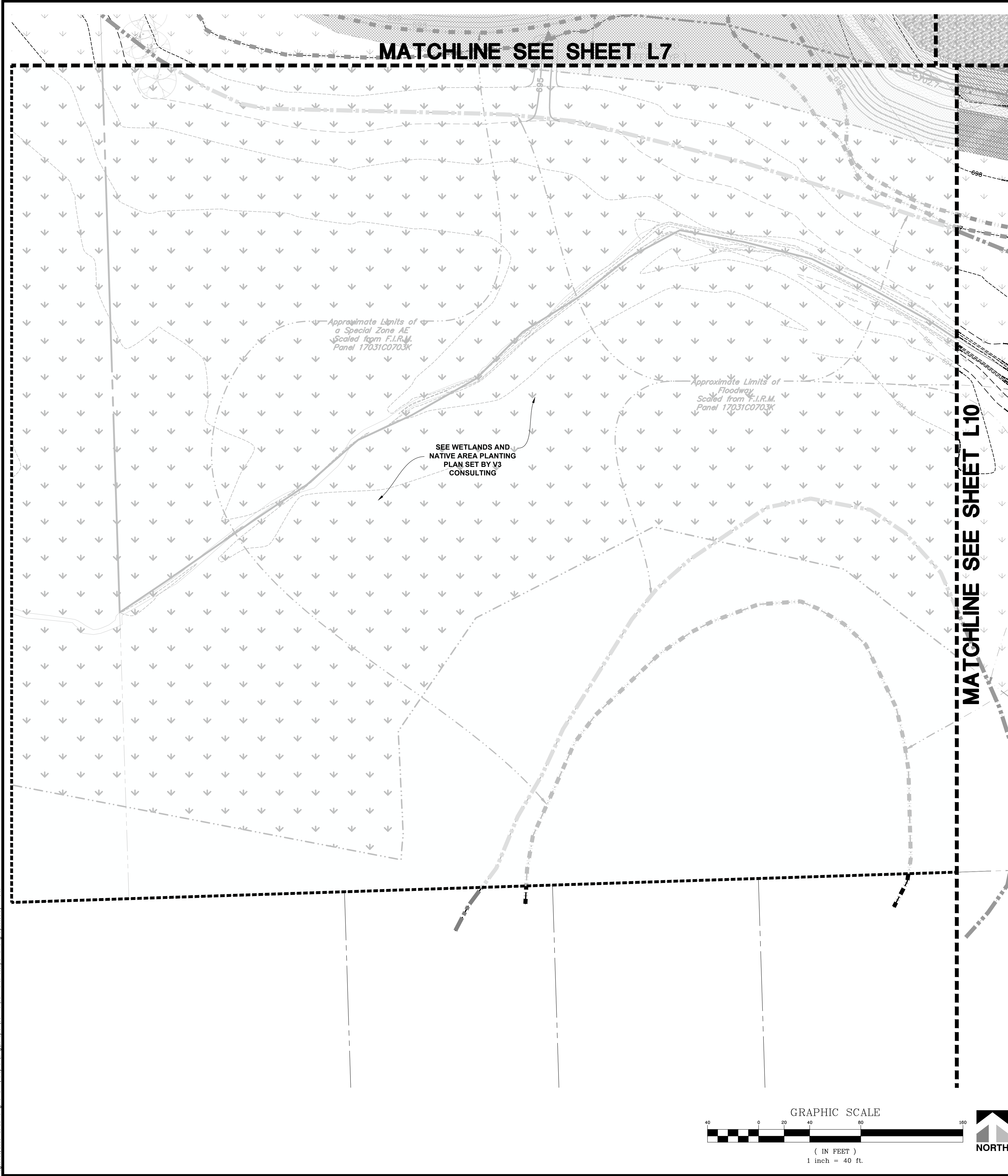
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05/12/25 REVISED PER VILLAGE COMMENTS

MN






MN

August 13, 2025 - 16:22 Dwg Name: P:\p00004\Draw\Landplan\02-Final\02-Final Landscape Plan.dwg Updated By: mmlison

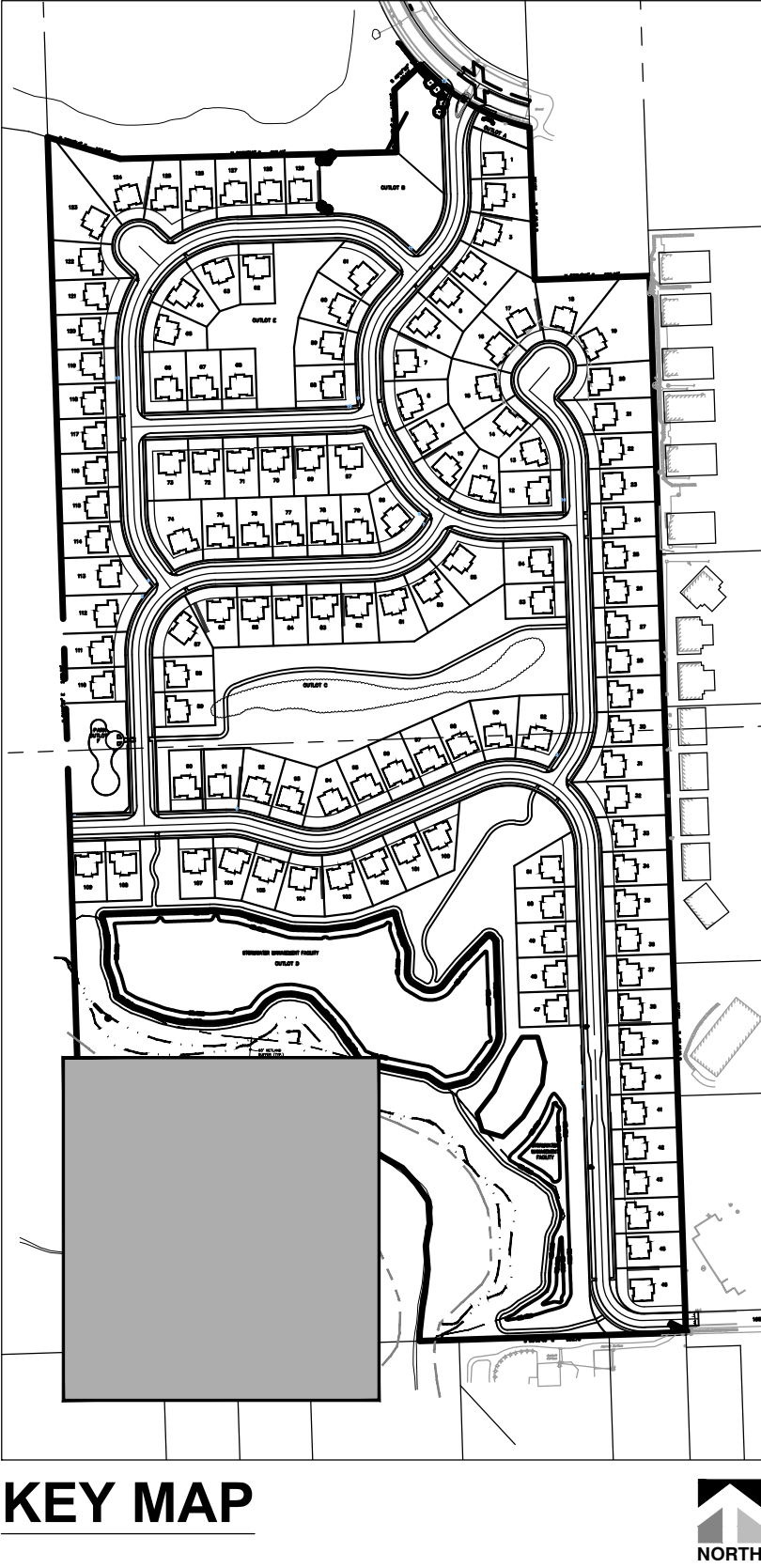


PLANT SCHEDULE		
CODE	BOTANICAL NAME	REMARKS
CONIFEROUS TREES		
AC5	Abies concolor	Non Native
PA2	Picea abies	Non Native
PB	Picea glauca densata	Non-Native (To Region)
PS	Pinus strobus	Native
TC	Tsuga canadensis	Native
DECIDUOUS TREES		
AS	Acer saccharum	Native
AX	Acer x freemanii	Native
CO	Celtis occidentalis	Native
GT	Gleditsia triacanthos f. inermis	Native
GK	Gymnocladus dioicus	Native
QM	Quercus macrocarpa	Native
QR	Quercus rubra	Native
TR	Tilia americana 'Redmond'	Native
UP	Ulmus americana 'Princeton'	Native
ORNAMENTAL TREES		
AX2	Amelanchier x grandiflora	Native
CE	Cercis canadensis	Native
DECIDUOUS SHRUBS		
AG2	Aronia melanocarpa 'UCONNAM012'	Native
AM2	Aronia melanocarpa elata	Native
CA5	Ceanothus americanus	Native
CL3	Cephalanthus occidentalis 'SMCBC'	Native
CG	Cornus racemosa	Native
CA6	Corylus americana	Native
HA	Hydrangea arborescens 'Annabelle'	Native
HV2	Hydrangea arborescens 'NCHA3'	Native
IO	Ilex verticillata 'Roberta Case'	Native
LB	Lindera benzoin	Native
PL	Potentilla fruticosa 'Lundy'	Native
RL	Rosa rugosa 'Purple Pavement'	Not Native
R4	Rosa x 'Meidrifora'	Non Native
VV	Viburnum trilobum 'J.N. Select'	Native
EVERGREEN SHRUBS		
JD	Juniperus chinensis 'Daub's Frosted'	Non Native
JP	Juniperus chinensis 'Kallays Compact'	Non Native
JB	Juniperus virginiana 'Blue Mountain'	Native
JB3	Juniperus virginiana 'Burkii'	Native
TB2	Thuja occidentalis 'Brabant'	Native
TT2	Thuja occidentalis 'Techny'	Native
ORNAMENTAL GRASSES		
AB	Andropogon gerardii 'Blackhawks'	Native
CK	Calamagrostis x acutiflora 'Karl Foerster'	Non Native
CP	Carex pensylvanica	Native
DG	Deschampsia cespitosa 'Goldtau'	Native
PS3	Panicum virgatum 'Shenandoah'	Native
SL	Schizachyrium scoparium	Native
SN	Sorghastrum nutans	Native
SH	Sporobolus heterolepis	Native
GROUND COVERS		
TS	Turf- Seed and Blanket	To be Drill Seeded and covered with Erosion Control Blanket
TB	Turf- Sod Bluegrass	100% Kentucky Bluegrass (min. 4 varieties)
PERENNIALS		
AC	Allium cernuum	Native
AC3	Anemone canadensis	Native
AT3	Asclepias tuberosa	Native
C13	Callirhoe involucrata	Non Native (To Region)
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HT	Heliopsis helianthoides 'Tuscan Sun'	Native
NC	Nepeta x 'Cat's Pajamas'	Non Native
PJ	Phlox paniculata 'Jeana'	Native
RH	Rudbeckia hirta	Native
RH2	Ruellia humilis	Native
NATIVE SEED MIXES		
NE	Native Seed Mix	SEE NATIVE PLANTING PLANS PREPARED BY V3 CONSULTING
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CONCEPT PLANT SCHEDULE

	STORMWATER AREA NATIVE CANOPY TREE SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING	93
	STORMWATER AREA NATIVE ORNAMENTAL TREE SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING	20
	EXISTING SHADE TREE TO BE PRESERVED	150
	EXISTING EVERGREEN TREE TO BE PRESERVED	6
	STORMWATER AREA SHRUB SEE WETLANDS AND NATIVE AREA PLANTING PLAN SET BY V3 CONSULTING	232

NOTE:
PLANTING PLAN AND LOCATIONS OF TREES/SHRUBS SHOWN IN THE STORMWATER MANAGEMENT AREA SUBJECT TO CHANGE. PLANS TO BE PREPARED BY V3. QUANTITIES OF TREES/SHRUBS WILL REMAIN AS SHOWN, THOUGH PLACEMENT MAY DIFFER.



Landscape Notes:

- Seed/ Sod limit line is approximate. Seed/ Sod to limits of grading and disturbance. Contractor responsible for restoration of any unauthorized disruption outside of designated construction area.
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- Do not locate plants within 10' of utility structures or within 5' horizontally of underground utility lines unless otherwise shown on plans. Consult with Landscape Architect if these conditions exist.
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- Contractor shall promptly repair all damages to existing site at no cost to owner.
- Refer to landscape specifications for additional conditions, standards, and notes.

DRAWN BY

REVISIONS

DATE

08/15/25

05/12/25

04/23/25

REVISED PER NEW BMP AT ENTRANCE

REVISED PER VILLAGE COMMENTS

REVISED PER NEW BASIN AT ENTRANCE

MN

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MN

Manhard CONSULTING LTD.

700 Ravinia Park, Suite 100, Oak Brook, IL 60110
708.584.1100
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners

ESTATES AT RAVINIA MEADOW

VILLAGE OF ORLAND PARK, ILLINOIS

FINAL LANDSCAPE PLAN

PROJ. MGR.: MN

PROJ. ASSOC.: MN

DRAWN BY: MN

DATE: 03/14/25

SCALE: 1"=40'

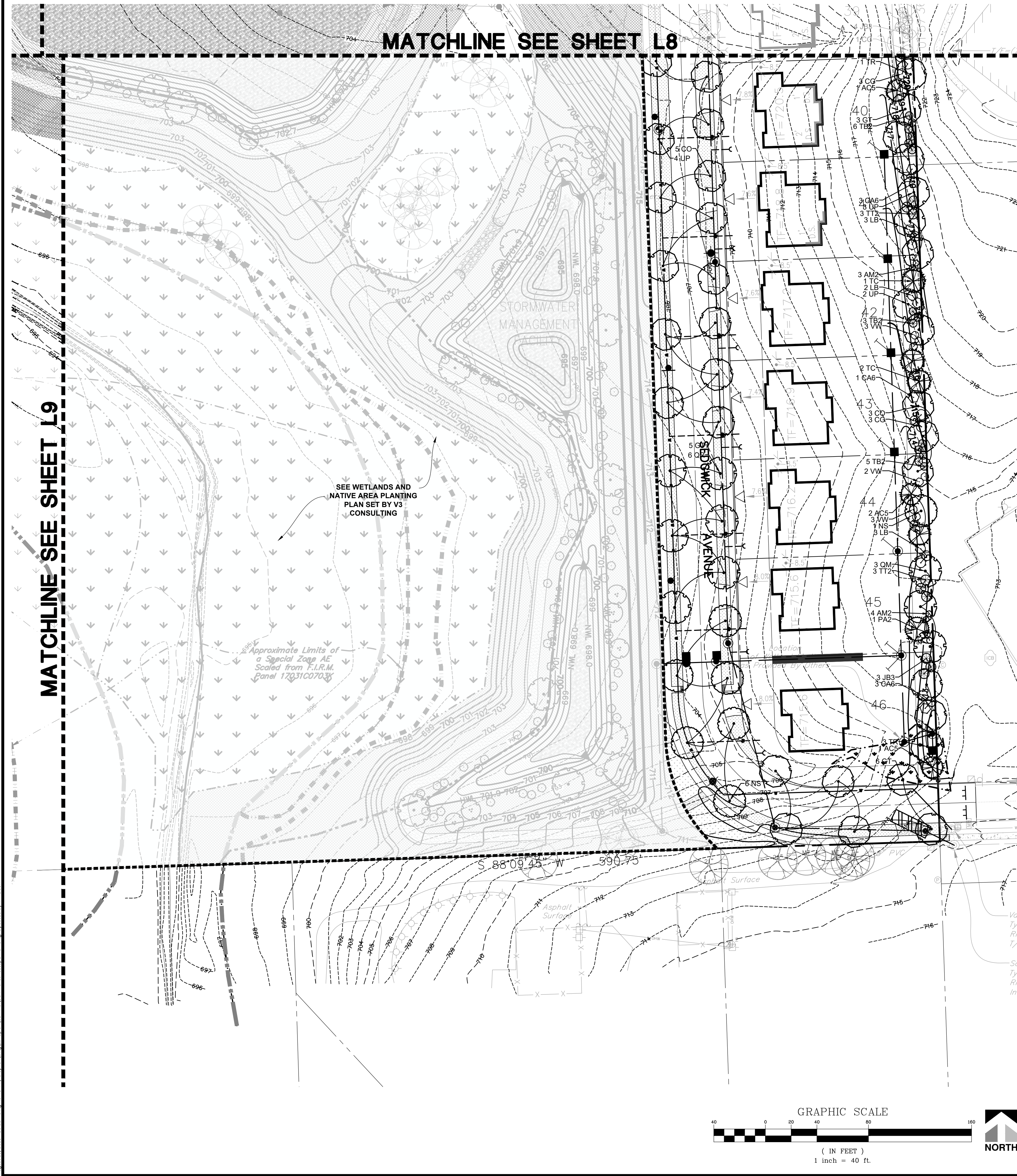
SHEET

L9 OF L14

PUL.OPILO4

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August 13, 2025 - 16:22 Dwg Name: P:\Projects\25\Landscaping\02-Final\02-Final Landscape Plan.dwg Updated By: mmlison



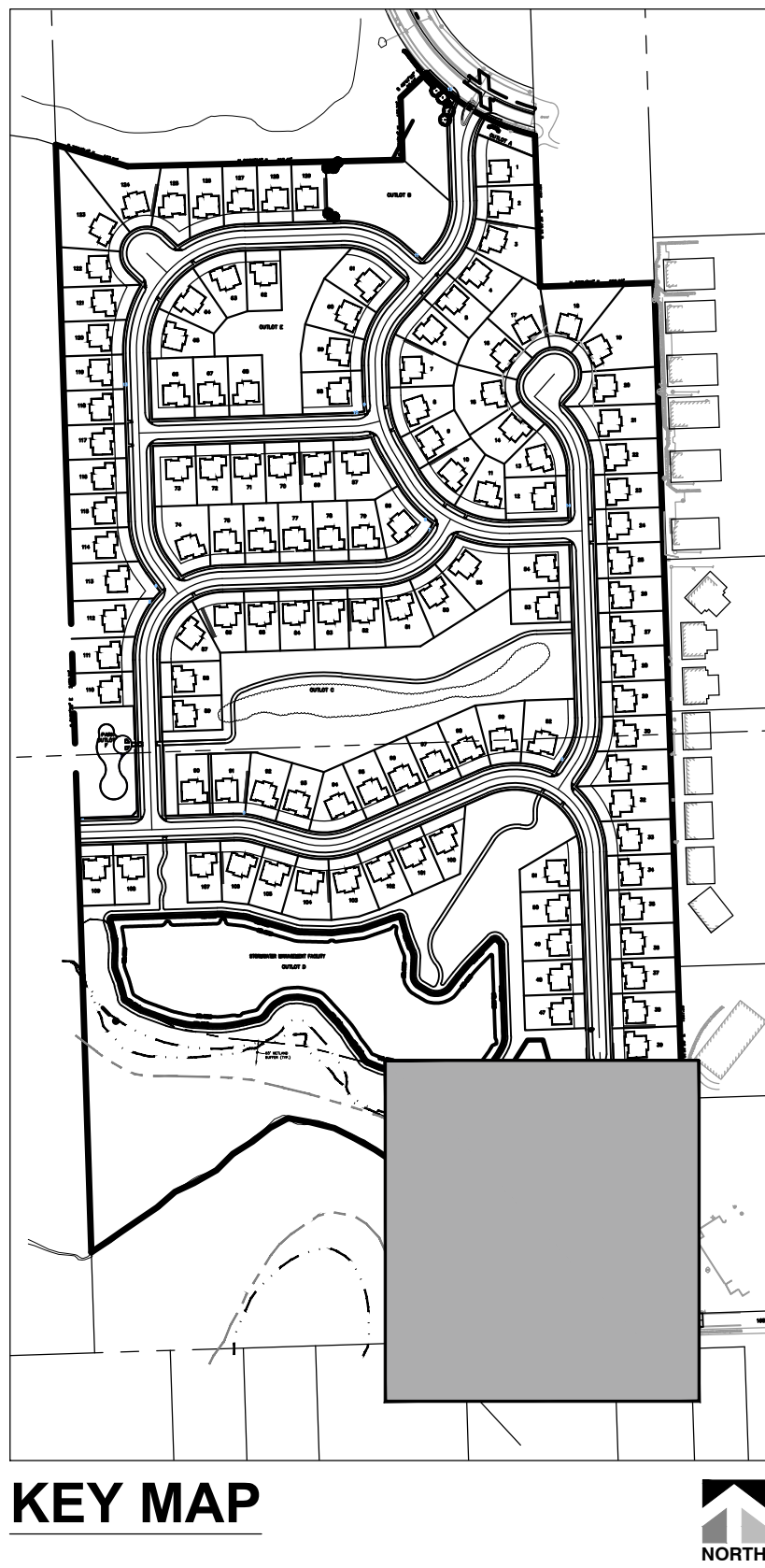
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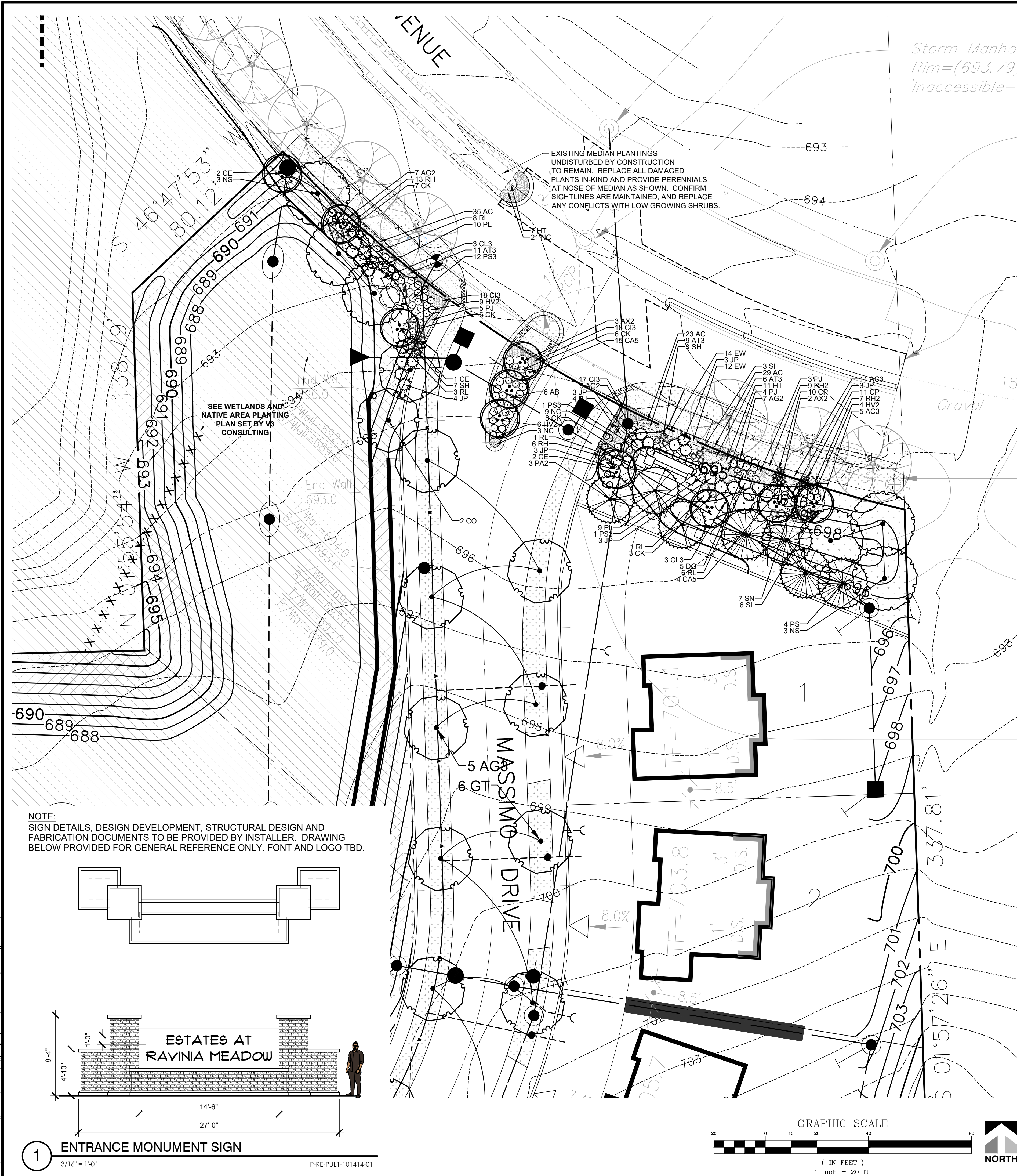
SCALE: 1"=40'

SHEET

L10 OF L14

PUL_OPL04

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Storm Manho
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'Inaccessible—

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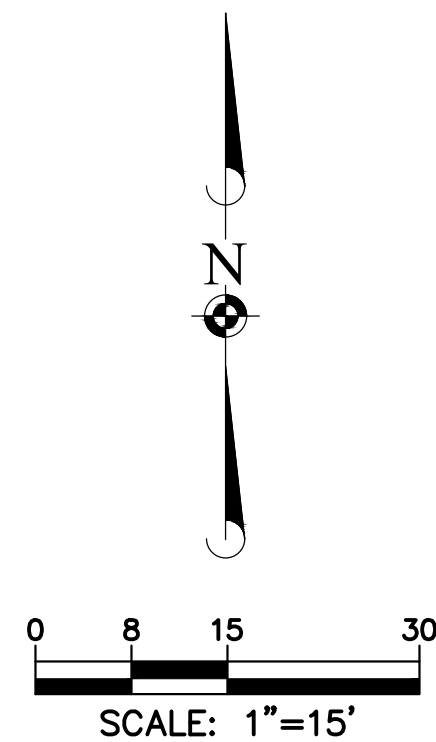
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ESTATES AT RAVINIA MEADOW
VILLAGE OF ORLAND PARK, ILLINOIS
FINAL ENTRANCE MONUMENT LANDSCAPE PLAN

PROJ. MGR.: MN
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DRAWN BY: MN
DATE: 03/14/25
SCALE: 1"=20'
SHEET
L11 OF L14
PUL.OPILO4

March 5, 2025 - 15:46 Dwg Name: P:\Pulopilo04\dwg\Landplan\02-Final\Typical Lot Landscape.dwg Updated By: MNelson

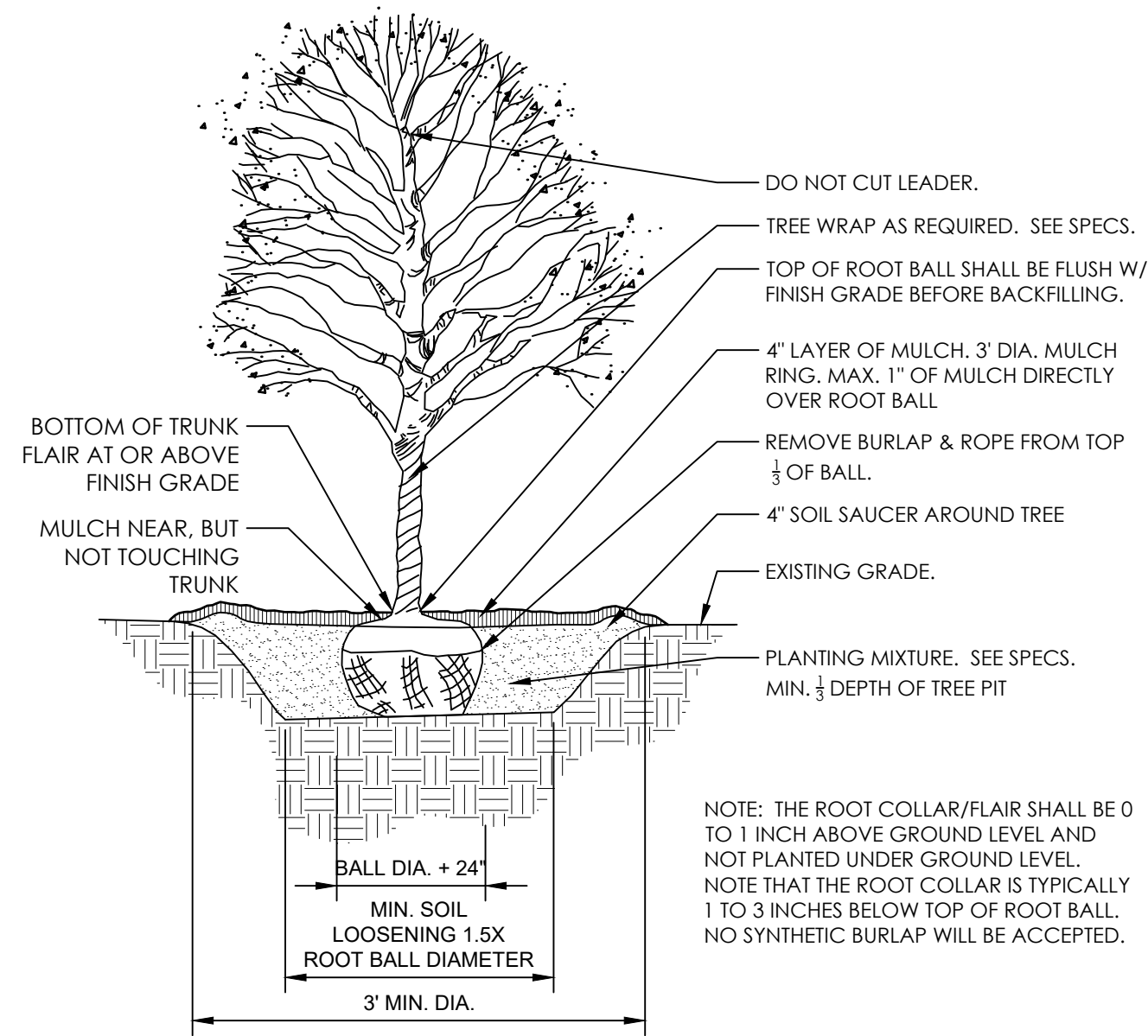
[illegible]

NOTE: Typical Foundation Planting Plans show the general layout, plant material suggestions, and design intent. Contractor to adjust as required for unit mix, front and sideyard setback requirements, and adjacent plantings. Minimum plantings as noted above must be provided.

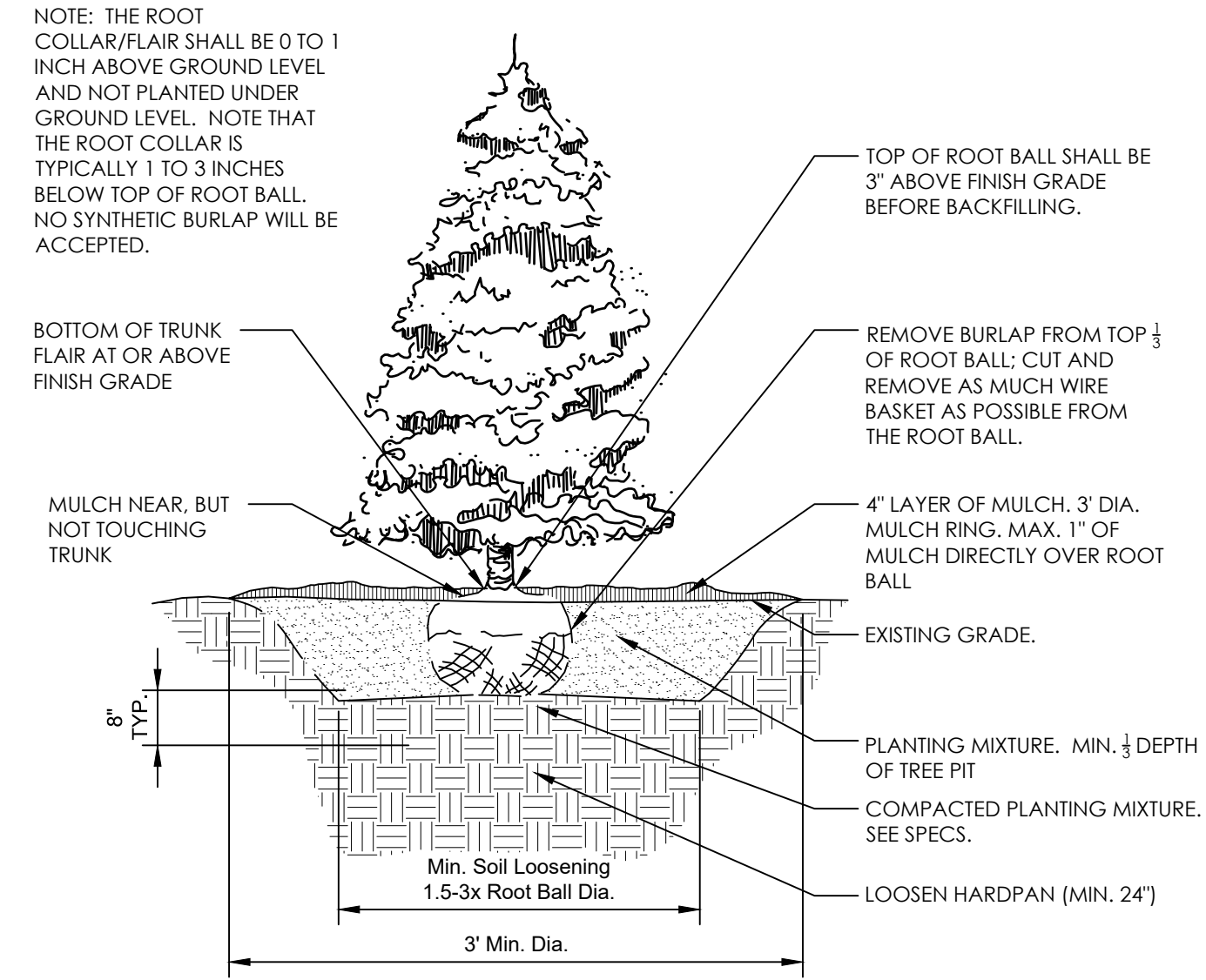
Total Number of Plants per Plant Type	Maximum % of Any Species	Minimum % of Any Species	% of Native Species Per Plant Type	Minimum Number of Species
1-4	100%	N/A	30%	1
5-10	60%	40%	30%	2
11-15	45%	20%	30%	3
16-75	40%	10%	30%	5
76-500	30%	5%	30%	8
501-1000	25%	5%	30%	10
1000+	15%	5%	30%	15
The overall number of trees and shrubs required for a site shall be comprised of not less than 30% evergreen and 70% deciduous, plus or minus 5%				

Turf: Sod (All residential lots and parkways)

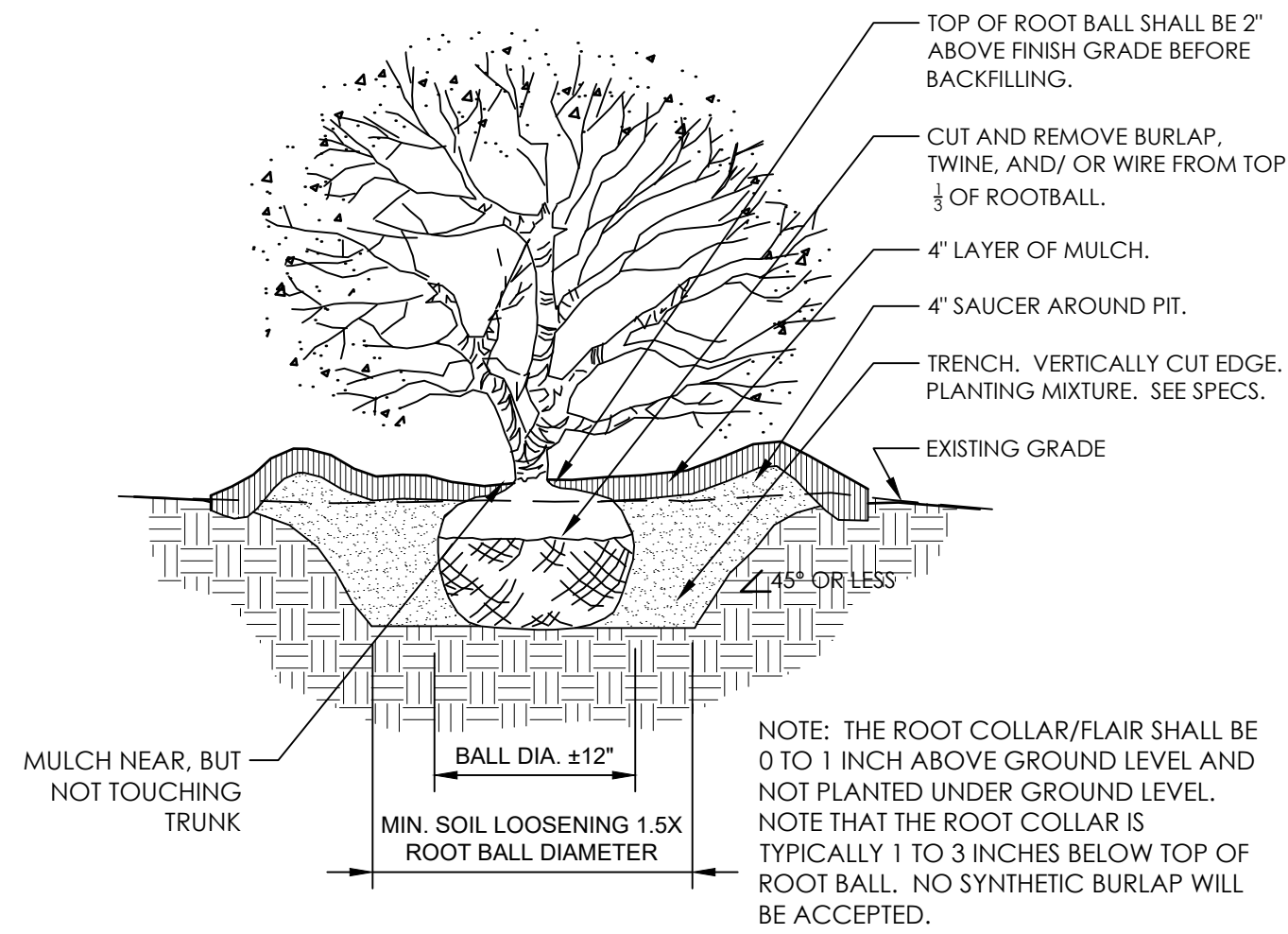
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DRAWN BY:	<u>MN</u>
DATE:	<u>03/14/25</u>
SCALE:	<u>AS NOTED</u>
SHEET	
<div style="font-size: 48pt; font-weight: bold;">L12</div> <div style="font-size: 24pt; font-weight: normal;">OF</div> <div style="font-size: 48pt; font-weight: bold;">L14</div>	
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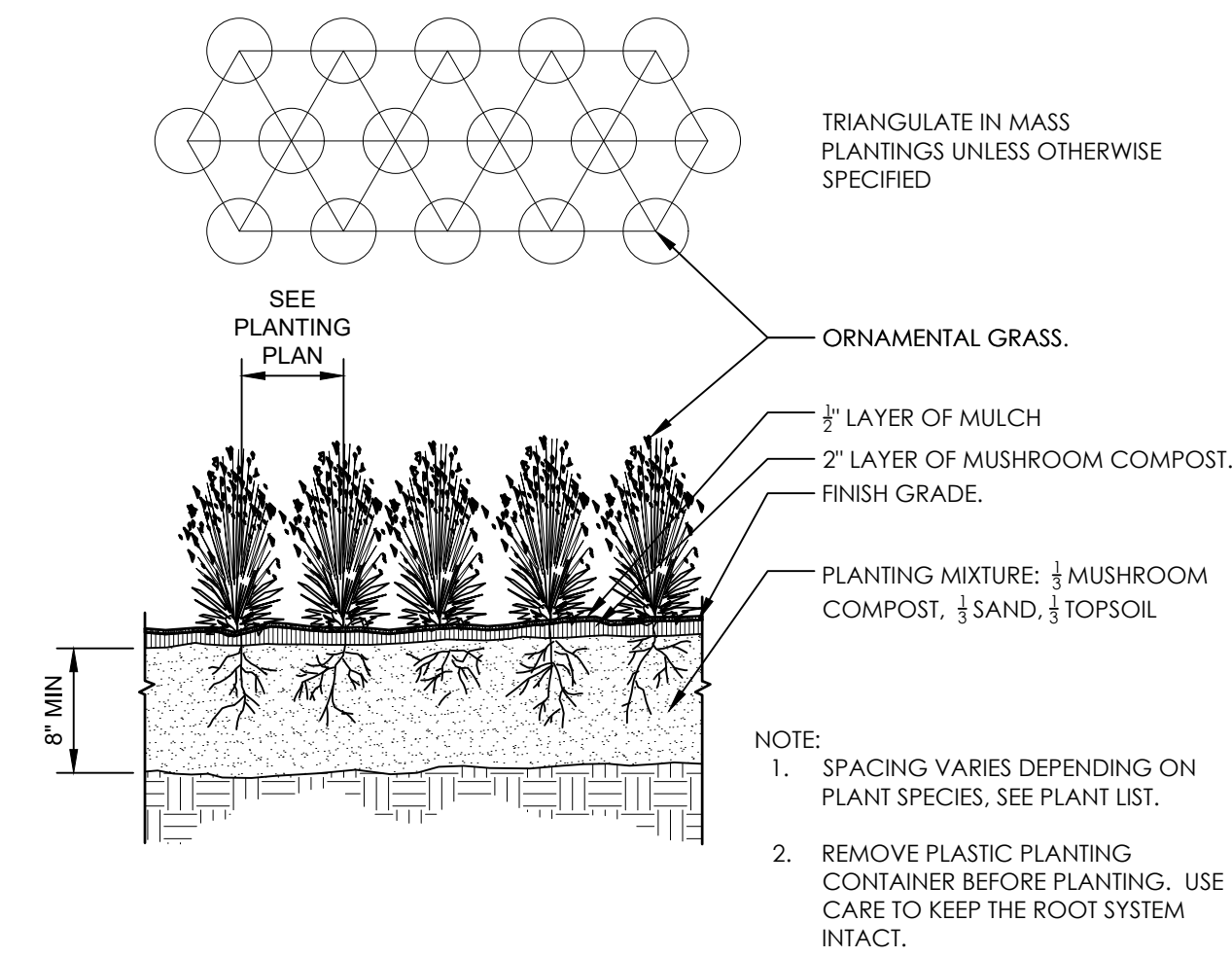
1 DECIDUOUS TREE PLANTING - ANSI A300
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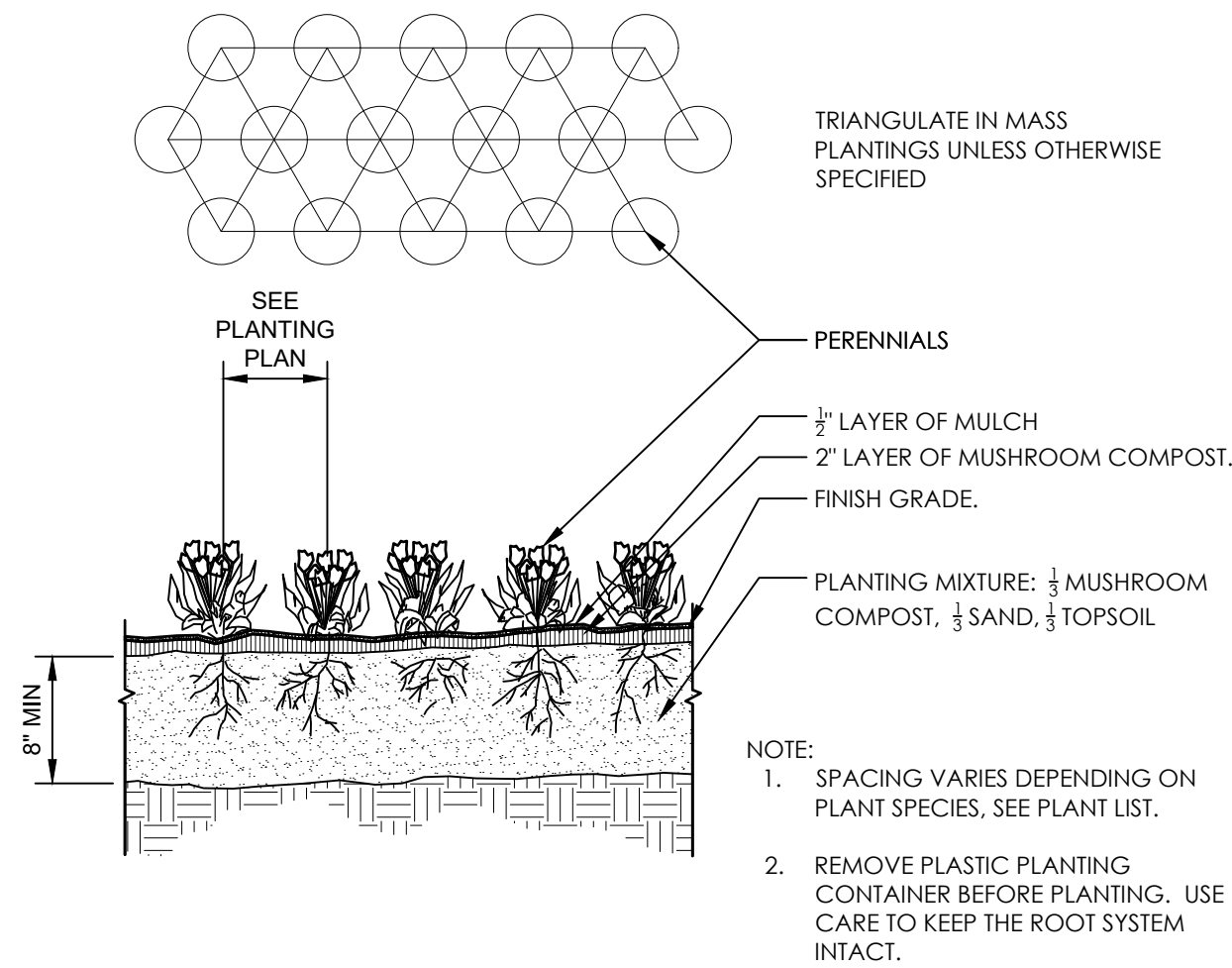
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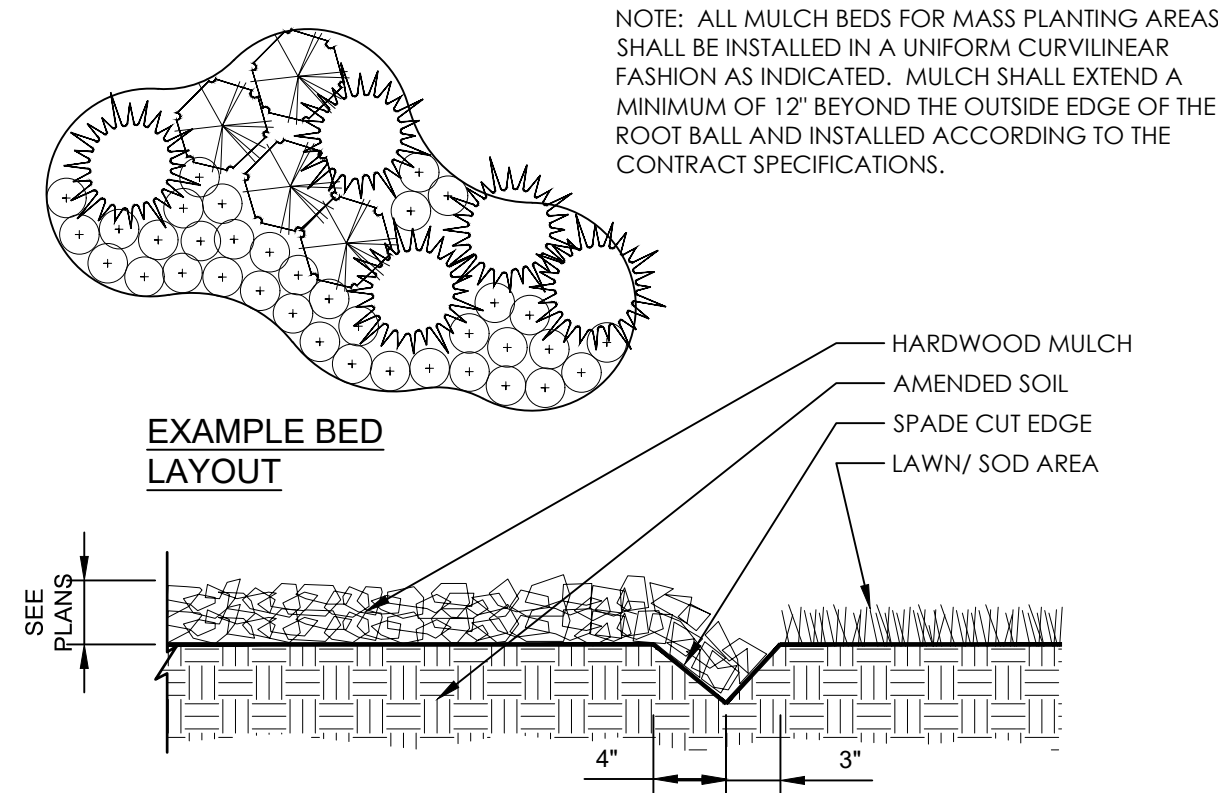
3 SHRUB PLANTING DETAIL - ANSI A300
3/4" = 1'-0" 329333.16-07



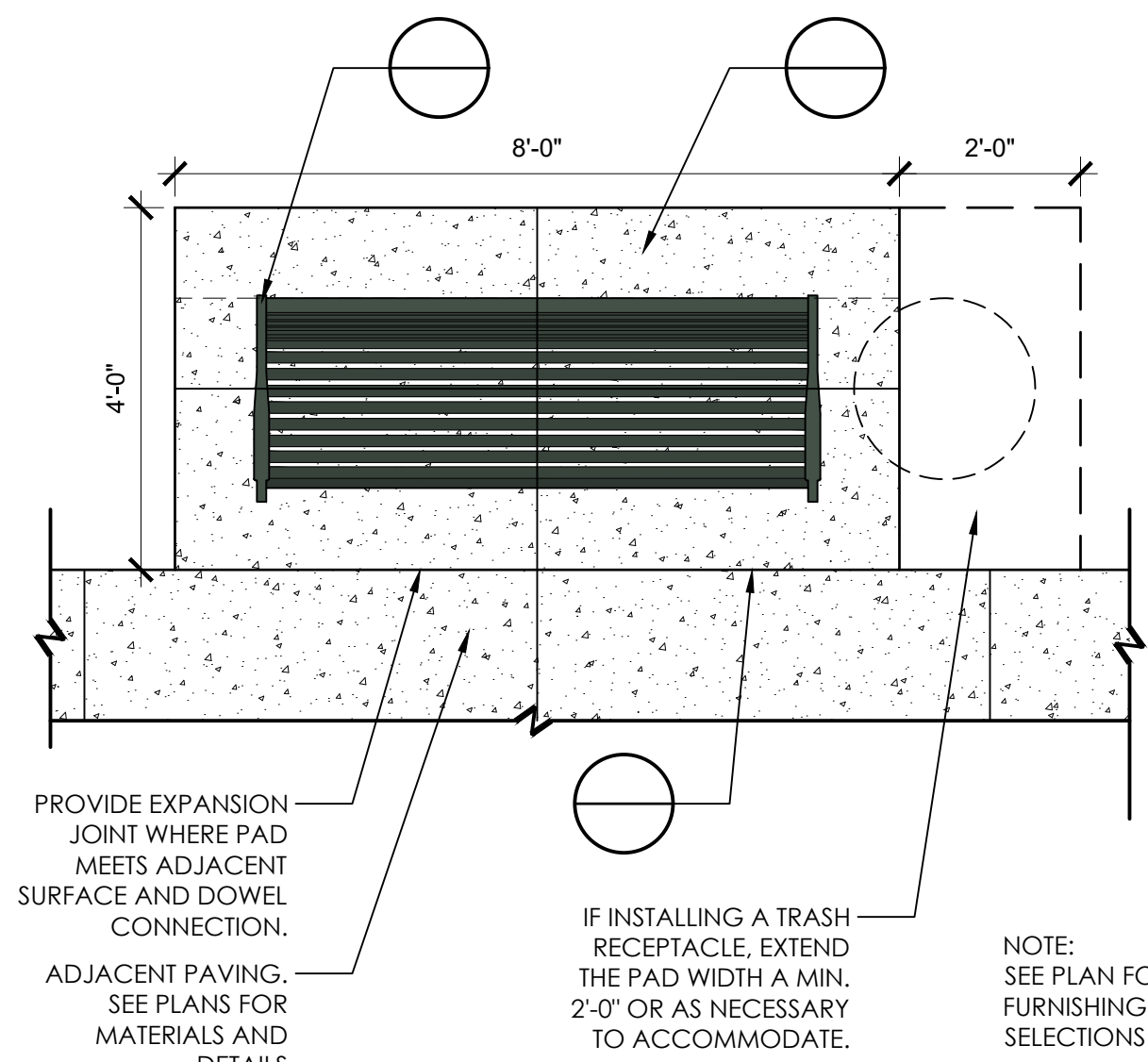
4 ORNAMENTAL GRASS PLANTING
1" = 1'-0" 329313-01



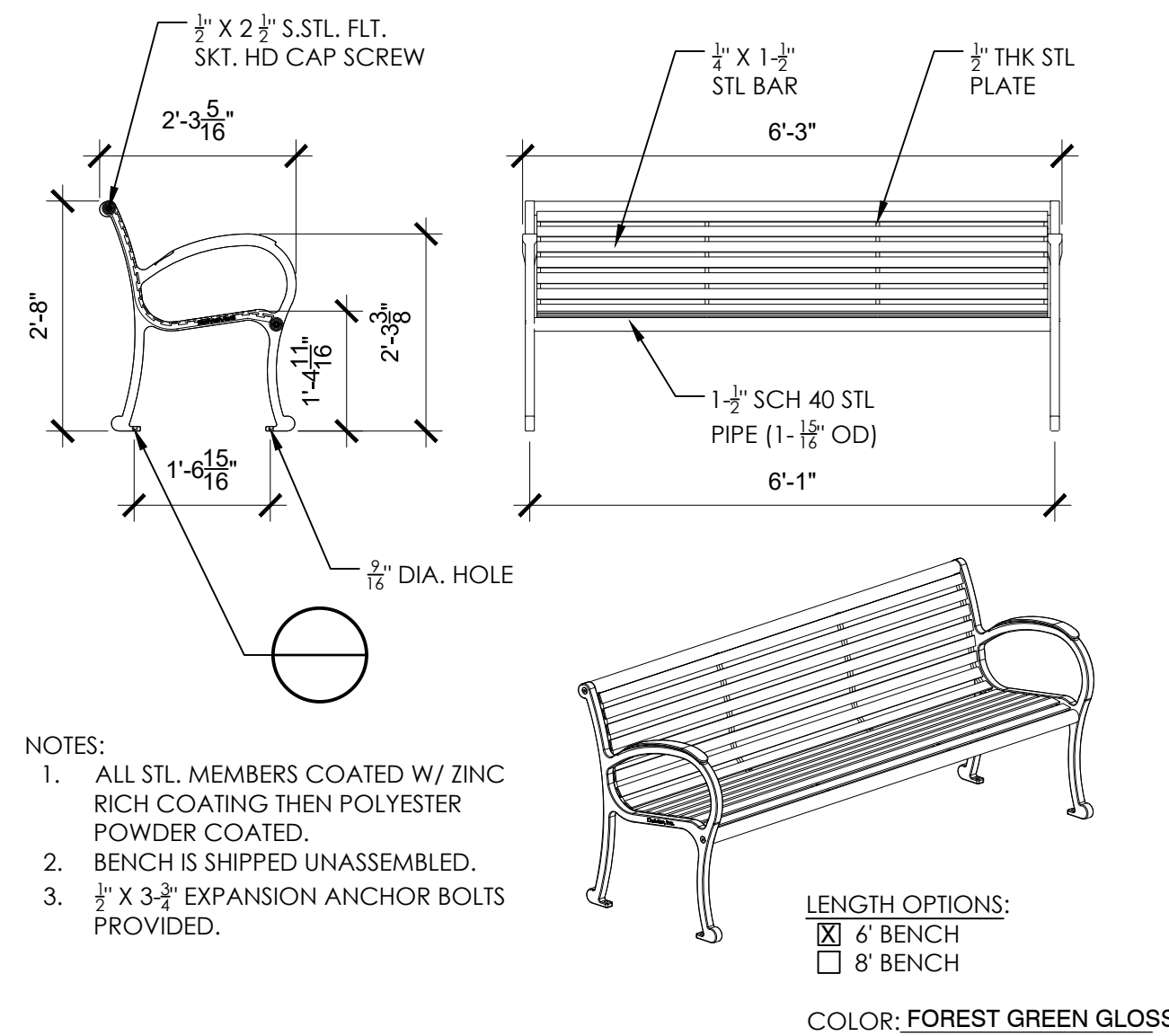
5 PERENNIAL / ANNUAL PLANTING
1" = 1'-0" 329313-02



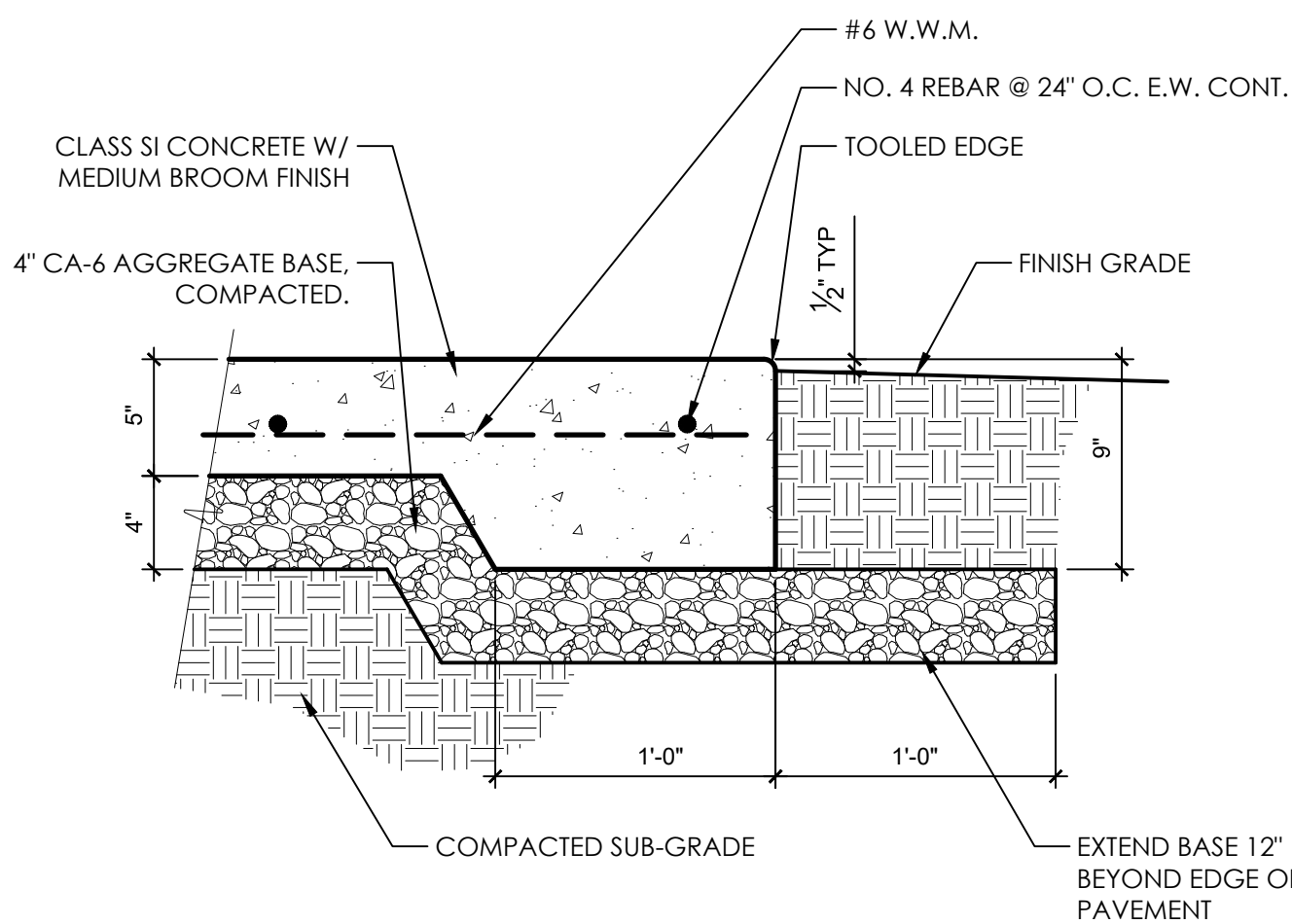
6 CONTINUOUS MULCH EDGING
1" = 1'-0" 329113.26-01



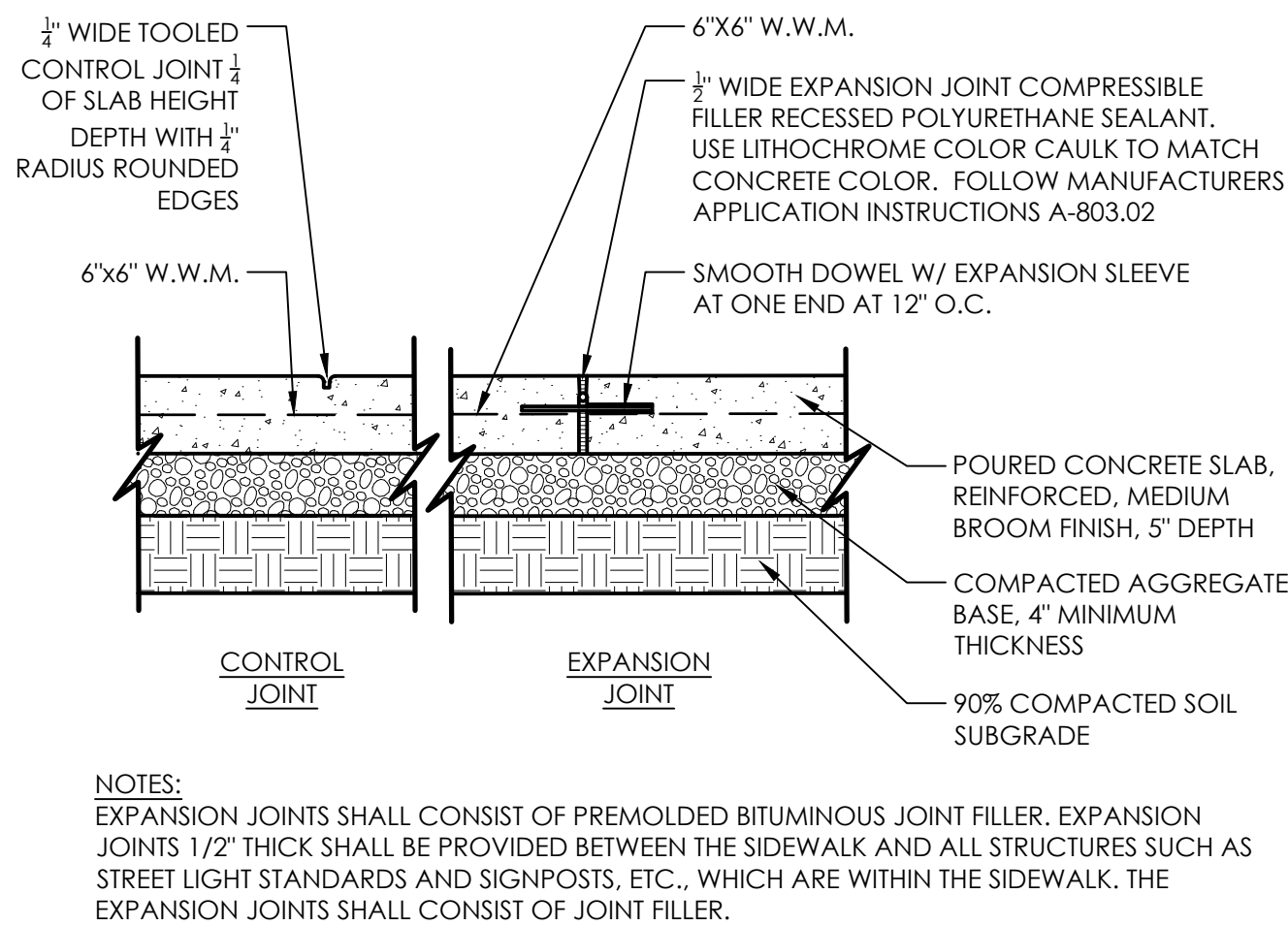
7 CONCRETE PAD FOR FURNISHINGS
1/2" = 1'-0" 321313.13-15



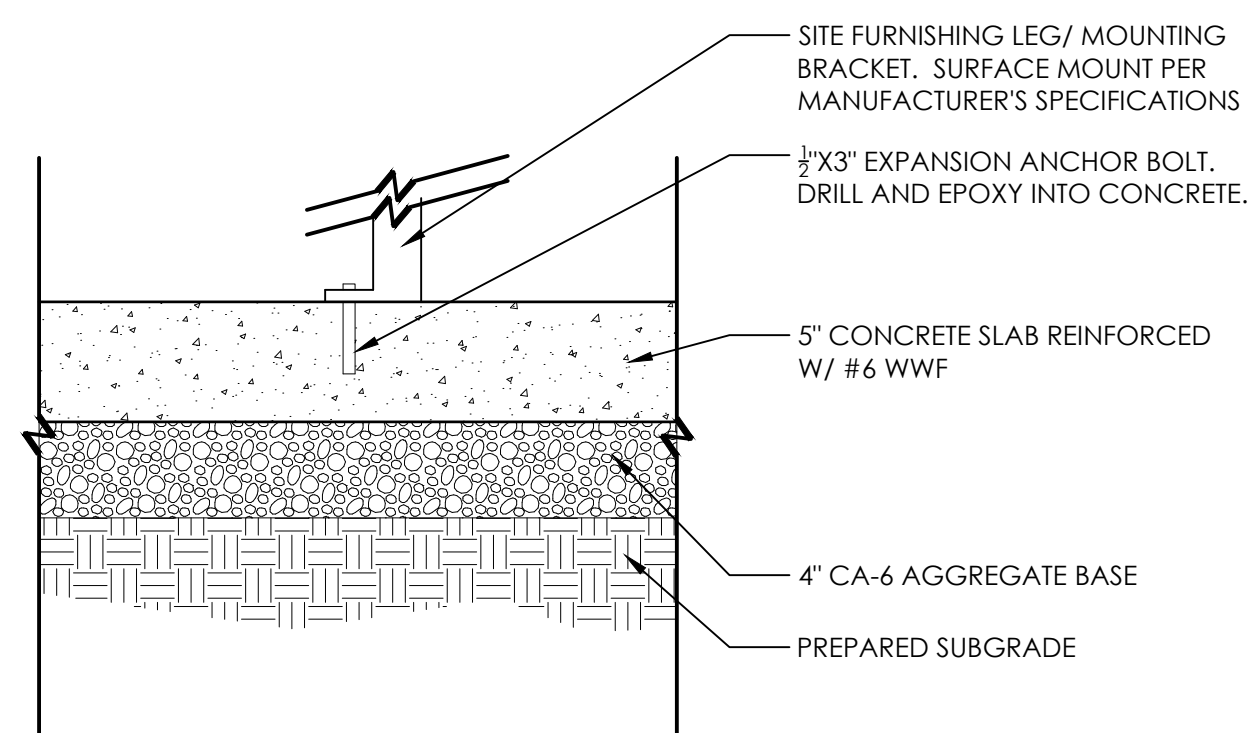
8 BENCH- DUMOR 160 SERIES, 6' (160-60)
1/2" = 1'-0" 129343.13-15



9 REINFORCED CONCRETE EDGE @ SIDEWALK
1 1/2" = 1'-0" FX-SI-FX-PAV-10



10 CONCRETE EXPANSION/ CONTROL JOINTS
1" = 1'-0" 321313.13-14



11 FURNISHING SURFACE MOUNT - CONCRETE
1 1/2" = 1'-0" 1293-01

August 13, 2025 - 16:22 Dwg Name: P:\p04004\24\Landscaping\02-Final\02-Final Landscape Plan.dwg Updated By: mmason

DATE	REVISIONS
08/15/25	REVISED PER NEW BMP AT ENTRANCE
05/12/25	REVISED PER VILLAGE COMMENTS
04/23/25	REVISED PER NEW BASIN AT ENTRANCE

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ESTATES AT RAVINIA MEADOW
VILLAGE OF ORLAND PARK, ILLINOIS
LANDSCAPE DETAILS

PROJ. MGR.: MN
PROJ. ASSOC.: MN
DRAWN BY: MN
DATE: 03/14/25
SCALE: AS NOTED

SHEET
L13 OF **L14**
PUL.OPI.L04

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PART 1 - GENERAL

A. PROVIDE TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS AS SHOWN AND SPECIFIED THIS WORK INCLUDES:

1. SPREADING OF TOPSOIL OR SOIL PREPARATION
2. TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS
3. PLANTING MIXES
4. MULCH AND PLANTING ACCESSORIES
5. FERTILIZER AND HERBICIDE
6. MAINTENANCE
7. WARRANTY OF PLANT MATERIAL

B. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND REPORT ANY DISCREPANCIES TO THE OWNER OR HIS/HER REPRESENTATIVE.

1-02 QUALITY ASSURANCE:

- A. COMPLY WITH SITE WORK REQUIREMENTS
- B. PLANT NAMES INDICATED MUST COMPLY WITH 'STANDARDIZED PLANT NAMES' AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES WHICH ARE NOT LISTED SHOULD CONFORM WITH THOSE GENERALLY ACCEPTED BY THE NURSERY TRADE. STOCK SHOULD BE LEGIBLY TAGGED.
- C. ALL PLANT MATERIALS SHALL CONFORM TO THE 'AMERICAN STANDARDS FOR NURSERY STOCK' (ASNS), LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON, D.C.
- D. ALL PLANT MATERIAL SHALL BE GROWN AND SUPPLIED WITHIN A 50 MILE RADIUS OF THE PROJECT FOR A MINIMUM OF TWO FULL GROWING SEASONS.
- E. ADHERE TO SIZING REQUIREMENTS AS LISTED IN THE PLANT LIST AND/OR BID FORM FOR THE PROJECT. A PLANT SHALL BE MEASURED IN ITS NATURAL STANDING POSITION.
- F. STOCK THAT IS FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE SHOWN, WITH PERMISSION OF THE LANDSCAPE ARCHITECT, SUBSTITUTION FROM THE SPECIFIED PLANT LIST WILL BE ACCEPTED ONLY WHEN SATISFACTORY EVIDENCE IN WRITING IS SUBMITTED TO THE LANDSCAPE ARCHITECT, SHOWING THAT THE PLANT SPECIFIED IS NOT AVAILABLE. REQUESTS FOR APPROVAL OF SUBSTITUTE PLANT MATERIAL SHALL INCLUDE COMMON AND BOTANICAL NAMES AND SIZE OF SUBSTITUTE MATERIAL. ONLY THOSE SUBSTITUTIONS OF AT LEAST EQUIVALENT SIZE AND CHARACTER TO THAT OF THE SPECIFIED MATERIAL WILL BE APPROVED. STOCK WHICH IS LARGER THAN THAT WHICH IS SPECIFIED IS ACCEPTABLE WITH PERMISSION OF THE LANDSCAPE ARCHITECT, PROVIDING THERE IS NO ADDITIONAL COST AND THAT THE LARGER PLANT MATERIAL WILL NOT BE CUT DOWN IN ORDER TO CONFORM TO THE SIZE INDICATED.
- G. ALL SHRUBS SHALL BE DENSE IN FORM. SHRUB LINERS DO NOT MEET THESE SPECIFICATIONS. SHRUBS SPECIFIED BY HEIGHT SHALL HAVE A SPREAD THAT IS EQUAL TO THE HEIGHT MEASUREMENT. SHRUBS WHICH ARE SPECIFIED BY SPREAD SHALL EXHIBIT THE NATURAL GROWTH HABIT OF THE PLANT BY HAVING A GREATER SPREAD THAN HEIGHT
- H. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO SELECT AND TAG ALL PLANT MATERIAL AT THE NURSERY PRIOR TO PLANTING. THE LANDSCAPE ARCHITECT AND OWNER RESERVE THE RIGHT TO INSPECT PLANT MATERIAL FOR SIZE AND CONDITION OF ROOT SYSTEMS, THE PRESENCE OF INSECTS AND DISEASES, INJURIES AND LATENT DEFECTS (DUE TO CONTRACTOR NEGLIGENCE OR OTHERWISE), AND TO REJECT UNACCEPTABLE PLANT MATERIAL AT ANY TIME DURING PROGRESS OF THE PROJECT.

I. CONTAINER GROWN DECIDUOUS AND/OR EVERGREEN SHRUBS WILL BE ACCEPTABLE IN LIEU OF BALLED AND BURLAPPED SHRUBS SUBJECT TO SPECIFIED LIMITATIONS FOR CONTAINER GROWN STOCK. SIZE OF CONTAINER GROWN MATERIAL MUST CONFORM TO SIZE/HEIGHT REQUIREMENTS OF PLANT LIST.

1-03 DELIVERY, STORAGE & HANDLING:

- A. FERTILIZER SHALL BE DELIVERED IN ORIGINAL, UNOPENED AND UNDAMAGED PACKAGING. CONTAINERS SHALL DISPLAY WEIGHT, ANALYSIS AND MANUFACTURER'S NAME. STORE FERTILIZER IN A MANNER THAT WILL PREVENT WETTING AND DETERIORATION.
- B. TAKE ALL PRECAUTIONS CUSTOMARY CONCERNING PROPER TRADE PRACTICE IN PREPARING PLANTS FOR TRANSPORT. PLANTS SHALL BE DUG, PACKED AND TRANSPORTED WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK AND ON ARRIVAL, THE CERTIFICATE SHALL BE FILED WITH THE LANDSCAPE ARCHITECT . ALL PLANTS MUST BE PROTECTED FROM DRYING OUT. IF PLANT MATERIAL CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, SAID MATERIAL SHOULD BE PROPERLY PROTECTED IN A MANNER THAT IS ACCEPTABLE TO THE LANDSCAPE ARCHITECT. HEED- IN PLANTS MUST BE WATERED DAILY. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD STRIP BARK OR BREAK OR SHEAR BRANCHES.
- C. PLANT MATERIAL TRANSPORTED ON OPEN VEHICLES SHOULD BE COVERED WITH A PROTECTIVE COVERING TO PREVENT WIND BURN.
- D. DRY, LOOSE TOPSOIL SHALL BE PROVIDED FOR PLANTING BED MIXES. MUDDY OR FROZEN TOPSOIL IS UNACCEPTABLE AS WORKING WITH MEDIUM IN THIS CONDITION WILL DESTROY ITS STRUCTURE, MAKING ROOT DEVELOPMENT MORE DIFFICULT.

1-04 PROJECT CONDITIONS:

- A. NOTIFY LANDSCAPE ARCHITECT AT LEAST SEVEN (7) WORKING DAYS PRIOR TO INSTALLATION OF PLANT MATERIAL.
- B. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING ABOVE AND BELOW GROUND UTILITIES. UTILITIES CAN BE LOCATED AND MARKED (IN ILLINOIS) BY CALLING J.U.I.I.E. AT (800)892-0123.
- C. THE CONTRACTOR SHALL PROVIDE, AT HIS/HER OWN EXPENSE, PROTECTION AGAINST TRESPASSING AND DAMAGE TO SEEDED AREAS, PLANTED AREAS, AND OTHER CONSTRUCTION AREAS UNTIL THE PRELIMINARY ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE BARRICADES, TEMPORARY FENCING, SIGNS, AND WRITTEN WARNING OR POLICING AS MAY BE REQUIRED TO PROTECT SUCH AREAS. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE OWNER AFTER SUCH WARNING HAS BEEN ISSUED.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF CROWNS, TRUNKS AND ROOTS OF EXISTING TREES, PLANT SHRUBS, LAWNS, PAVED AREAS AND OTHER LANDSCAPED AREAS THAT ARE TO REMAIN INTACT. EXISTING TREES, WHICH MAY BE SUBJECT TO CONSTRUCTION DAMAGE, SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED BEFORE ANY WORK IS STARTED. THE OWNER DESIRES TO PRESERVE THOSE TREES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION EXCEPT THOSE SPECIFICALLY INDICATED TO BE REMOVED ON THE DRAWINGS. THE CONTRACTOR SHALL ERECT PROTECTIVE TREE FENCING AND TREE ARMOR AT LOCATIONS INDICATED ON THE DRAWINGS AND AROUND ALL TREES ON SITE WHICH ARE TO BE PRESERVED. PROTECTIVE FENCING SHALL BE ERECTED BETWEEN THE LIMITS OF CONSTRUCTION AND ANY TREE PRESERVATION AREAS SHOWN ON THE DRAWINGS.
- E. A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF SIZES, QUANTITIES AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS AND ON THE BID FORM. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.

1-05 PRELIMINARY ACCEPTANCE:

- A. ALL PLANTINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS AFTER PRELIMINARY ACCEPTANCE BY THE OWNER OR HIS/HER REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO: MOWING AND EDGING TURF, PULLING WEEDS, WATERING TURF AND PLANT MATERIAL AND ANNUAL FLOWER MAINTENANCE.

1-06 WARRANTY:

- A. ALL PLANT MATERIAL (EXCLUDING ANNUAL COLOR), SHALL BE WARRANTED FOR ONE (1) YEAR AFTER THE END OF THE 90 DAY MAINTENANCE PERIOD. THE END OF THE MAINTENANCE PERIOD IS MARKED BY THE FINAL ACCEPTANCE OF THE CONTRACTOR'S WORK BY THE OWNER OR HIS/HER REPRESENTATIVE. PLANT MATERIALS WILL BE WARRANTED AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR. THE WARRANTY COVERS A MAXIMUM OF ONE REPLACEMENT PER ITEM.

PART 2 - PRODUCTS

2-01 PLANT MATERIALS:

- A. PLANTS: PROVIDE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. ONLY SOUND, HEALTHY VIGOROUS PLANTS WHICH ARE FREE FROM SUNSCALD INJURIES, DISFIGURING KNOTS, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION SHALL BE PROVIDED. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN PATCHES.
1. BALLED AND BURRLAPPED PLANTS SHALL HAVE A FIRM NATURAL BALL OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS A ROOT SYSTEM NECESSARY FOR A FULL RECOVERY OF THE PLANT. ROOT BALL SIZES SHALL COMPLY WITH THE LATEST EDITION OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ASNS). ROOT BALLS THAT ARE CRACKED OR MUSHROOMED ARE UNACCEPTABLE.
 2. CONTAINER GROWN STOCK SHOULD BE GROWN FOR AN AMOUNT OF TIME THAT IS OF SUFFICIENT LENGTH FOR THE ROOT SYSTEM TO HAVE DEVELOPED ENOUGH TO HOLD ITS SOIL TOGETHER, FIRM AND WHOLE. PLANTS WILL NOT BE LOOSE IN THEIR CONTAINERS, NOR SHALL THEY BE POT-BOUND AND ALL CONTAINER GROWN STOCK WILL COMPLY WITH THE SIZES STATED ON THE PLANT LIST.
 3. NO EVIDENCE OF WOUNDS OR PRUNING CUTS SHALL BE ALLOWED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
 4. EVERGREEN TREES SHALL BE BRANCHED TO THE GROUND. THE HEIGHT OF EVERGREEN TREES ARE DETERMINED BY MEASURING FROM THE GROUND TO THE FIRST LATERAL BRANCH CLOSEST TO THE TOP. HEIGHT AND/OR WIDTH OF OTHER TREES ARE MEASURED BY THE MASS OF THE PLANT NOT THE VERY TIP OF THE BRANCHES.
 5. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND/OR HEIGHT INDICATED IN THE PLANT LIST. THE HEIGHT MEASUREMENT SHALL BE TAKEN FROM GROUND LEVEL TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT, NOT THE LONGEST BRANCH. SINGLE STEM OR THIN PLANTS WILL NOT BE ACCEPTED. SIDE BRANCHES SHALL BE FLUSHED WITH GROWTH AND HAVE GOOD FORM TO THE GROUND. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES OR OTHER ROOT OR BRANCH INJURIES.

2-02 ACCESSORIES:

- TOPSOIL:
1. TOPSOIL SHALL BE FERTILE, NATURAL TOPSOIL OF A LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL. TOPSOIL SHALL BE REASONABLY FREE FROM CLAY, LUMPS, COARSE SAND, STONES, PLANTS, ROOTS, STICKS AND OTHER FOREIGN MATERIALS WITH A PH BETWEEN 6.5 TO 7.0.
- B. TOPSOIL FOR SEED AREAS SHALL BE A MINIMUM OF 6".
- C. SOIL AMENDMENTS SHALL BE AS FOLLOWS:
1. FOR TREES AND SHRUBS THE PLANT PIT WILL BE BACKFILLED WITH PULVERIZED BLACK DIRT.
 2. FOR PERENNIALS AND ORNAMENTAL GRASSES THE SOIL MIXTURE WILL BE AS FOLLOWS: CM-63 GENERAL PURPOSE PEAT BASED MIX AS SUPPLIED BY MIDWEST TRADING. TOP BEDS WITH 8" OF CM-63 AND TILL INTO EXISTING BEDS TO A DEPTH OF 8". SOIL MIXTURES ARE AVAILABLE FROM MIDWEST TRADING. MIDWEST TRADING, ST CHARLES, IL 60174 (630) 365-1990
- D. FERTILIZER:
1. FOR TREES AND SHRUBS USE: 14-4-6 BRIQUETTES 17 G OR EQUIVALENT AVAILABLE FROM ARTHUR CLESEN, INC. FOLLOW MANUFACTURER'S RECOMMENDATION FOR APPLICATION. ARTHUR CLESEN, INC. 543 DIENS DRIVE, WHEELING, IL 60090 (847)537-2177
 2. FOR TURF AREAS USE 6-24-16 CLESEN FAIRWAY WITH MICRONUTRIENTS WITH MINO ELEMENTS 3.0 % S, .02% B, .05% CU, 1.0% FE, .0008% MO, .10% MN AVAILABLE FROM ARTHUR CLESEN OR APPROVED EQUAL.
- E. HERBICIDE:
1. ROUND-UP OR APPROVED EQUAL
- F. MULCH:
1. BARK MULCH SHALL BE FINELY SHREDDED HARDWOOD BARK WHICH HAS BEEN SCREENED AND IS FREE OF ANY GREEN FOLIAGE, TWIGS, ROCKS, SAWDUST, WOOD SHAVINGS, GROWTH OR GERMINATION INHIBITING INGREDIENTS, OR OTHER FOREIGN MATERIALS. BARK MULCH IS AVAILABLE FROM MIDWEST TRADING.
 2. MUSHROOM COMPOST AS AVAILABLE FROM MIDWEST TRADING.
- G. WATER:
1. WATER SERVICE WILL BE AVAILABLE ON THE SITE, WITH THE COST OF WATER BEING PAID BY THE OWNER. TRANSPORTING OF THE WATER FROM THE SOURCE TO THE WORK AREAS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ALL NECESSARY HOSE, PIPING, TANK TRUCK, ETC. SHALL BE SUPPLIED BY THE LANDSCAPE CONTRACTOR.
- H. GUYING:
1. STAKES: 5/8" X 40" STEEL EYE ANCHOR WITH 4" HELIX
 2. CABLE:
 - a. TREES UNDER 5": FLEXIBLE 1/8" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL
 - b. TREES 5" AND OVER: FLEXIBLE 3/16" GALVANIZED AIRCRAFT CABLE, 7X7 STRAND OR APPROVED EQUAL
 3. TURNBUCKLES: 5/16", EYE AND EYE, WITH 4" TAKEUP.
 4. HOSE: NEW TWO-PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D.

- J. TWINE: SOFT NURSERY JUTE.

PART 3 - INSTALLATION OF PLANT MATERIAL

3-01 FIELD VERIFICATION:

- A. EXAMINE PROPOSED PLANTING AREAS AND CONDITIONS OF INSTALLATION. DO NOT START PLANTING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

3-02 PREPARATION:

- A. ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF "HORTICULTURE STANDARDS OF NURSERYMEN, INC." AND AS DETAILED ON THESE DRAWINGS.
- B. PLANTING SHALL BE PERFORMED BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.
- C. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED CLEARLY.
- D. APPLY ROUND-UP OR APPROVED EQUIVALENT TO KILL ANY EXISTING VEGETATION IN ALL AREAS TO BE PLANTED. CONFIRM LENGTH OF WAITING PERIOD BETWEEN CHEMICAL APPLICATION AND PLANT INSTALLATION WITH MANUFACTURER. DO NOT BEGIN PLANTING OPERATIONS UNTIL PRESCRIBED POST-APPLICATION WAITING PERIOD HAS ELAPSED. TAKE EXTREME CARE TO AVOID CHEMICAL DRIFT TO ADJOINING PROPERTIES OF LANDSCAPE PLANTINGS.
- E. PRIOR TO ALL PLANTING, ROTOTILL ALL AREAS TO BE LANDSCAPED TO PREPARE FOR PLANT INSTALLATION TO A MINIMUM DEPTH OF 12". ELIMINATE UNEVEN AREAS AND LOW SPOTS. MAINTAIN SLOPES, LEVELS, LINES, AND CONTOUR. CHANGES IN GRADE ARE TO BE GRADUAL. BLEND SLOPES INTO LEVEL AREAS. REMOVE ALL DEBRIS, WEEDS AND UNDESIRABLE PLANTS AND THEIR ROOTS FROM AREAS TO BE PLANTED. REMOVE ALL CONCRETE SLAB LARGER THAN 2" IN DIAMETER.
- F. TOPSOIL SHALL BE SPREAD OVER THE SITE AT A MINIMUM DEPTH OF 6". FOR THOSE AREAS WHICH ARE INDICATED AS PRAIRIE OR NATURAL AREAS ON THE DRAWINGS, A TOPSOIL DEPTH OF 18" IS RECOMMENDED WHERE POSSIBLE.
- G. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PREPARE ALL SEEDED AREAS BY DISKING AND RAKING PRIOR TO PLANTING SEED. SOIL SHALL BE LOOSENED AND SCARIFIED TO A MINIMUM DEPTH OF 6". FINE GRADING OF ALL SEEDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".
- H. LOCATE ALL PLANT MATERIAL AS INDICATED OR AS APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT. IF OBSTRUCTIONS ARE ENCOUNTERED WHICH ARE NOT SHOWN ON THE DRAWINGS, THEN DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED.
- I. PLANTING HOLES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANTING DETAILS. HOLES SHALL BE HAND DUG OR MACHINE DUG. GREAT CARE WILL BE TAKEN TO NOT EXCAVATE THE HOLE DEEPER THAN THE ROOT BALL AND THE DIAMETER SHALL BE A MINIMUM OF TWO TIMES THE ROOT BALL WIDTH. REMOVE ANY MATERIALS ENCOUNTERED IN EXCAVATION THAT MAY BE INJURIOUS TO PLANT GROWTH, INCLUDING STONES LARGER THAN 2" IN DIAMETER OR OTHER DEBRIS. SOIL TO BE USED AS BACKFILL SHOULD BE PULVERIZED.
- J. PROVIDE PRE-MIXED PLANTING MIXTURE FOR USE AROUND ROOT SYSTEMS AND ROOT BALLS OF THE PLANTS. THE MIXTURES ARE OUTLINED IN SECTION B OF PART 2-02.
- K. PRIOR TO PLANTING, PROVIDE ADDITIONAL TOPSOIL TO ALL PLANTING BEDS TO BRING THE FINISH GRADE OF THE BED TO 2" ABOVE LAWN GRADE AND TO FINISH GRADE OF ADJACENT HARD SURFACE GRADES.
- L. ADD 2" THICKNESS OF MUSHROOM COMPOST TO ALL ANNUAL, PERENNIAL AND GROUND-COVER BEDS. FINISH GRADE BED AND INSTALL PLANTS.

3-03 PLANTING PROCEDURES:

- A. SET PLANT MATERIAL IN THE PLANTING HOLE TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT AND PLUMB. SET PLANT MATERIAL 2" ABOVE THE ADJACENT FINAL GRADE. REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL. REMOVE TREATED BURLAP (GREEN). CUT AND REMOVE OR CUT AND FOLD DOWN UPPER HALF OF WIRE BASKET, DEPENDING UPON TREE SIZE. BACKFILL HOLE BY FIRMLY TAMPING SOIL TO AVOID ANY AIR POCKETS OR VOIDS.
- B. SET BALLED AND BURLAPPED PLANTS IN THE PLANTING HOLE AND COMPACT 8" OF SOIL AROUND THE BASE OF THE BALL. BACKFILL REMAINING SPACE WITH PLANTING MIXTURE. WATER PLANTS IMMEDIATELY AFTER PLANTING TO ELIMINATE ALL VOIDS AND THOROUGHLY SOAK THE PLANT ROOT BALL.
- C. SPACE GROUNDCOVER PLANTS ACCORDING TO DIMENSIONS GIVEN ON THE PLANS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED NUMBER OF PLANTS. PLANT TO WITHIN 18" OF THE TRUNKS OF TREES AND SHRUBS OR AT THE EDGE OF THE PLANT BALL, WHICHEVER IS CLOSEST. PLANT TO WITHIN 12" OF EDGE OF BED.
- D. MULCHING:
1. INSTALL 4" DEPTH OF MULCH AROUND ALL TREE AND SHRUB BEDS AS INDICATED ON DRAWINGS OR PLANTING DETAILS. MULCH SHRUB PLANTING AREAS AS CONTINUOUS BEDS. DO NOT PLACE MULCH DIRECTLY AGAINST TREE TRUNK; FORM MULCH TO CREATE AN INVERTED CONE AROUND TRUNK.
 2. MULCH PERENNIAL, GROUNDCOVER AND ANNUAL PLANTING BEDS WITH 2" MUSHROOM COMPOST. WATER MULCHED AREAS THOROUGHLY AFTER PLACING MULCH.
- E. TREE WRAPPING IS NOT REQUIRED, UNLESS THE CONTRACTOR FEELS IT IS NECESSARY DUE TO CHARACTERISTICS OF A PARTICULAR SPECIES OR PAST EXPERIENCE WITH THE SPECIES. THE LANDSCAPE ARCHITECT WILL BE NOTIFIED AS TO WHICH TREES ARE TO BE WRAPPED AND SHALL INSPECT THE TRUNK(S) BEFORE WRAPPING. TREE WRAP WILL NOT BE USED TO COVER DAMAGE OR DEFECTS. WHEN WRAPPING IS DONE, TRUNKS WILL BE WRAPPED SPIRALLY WITH APPROVED TREE WRAPPING TAPE THAT IS NOT LESS THAN 4" WIDE, AND SECURELY TIED WITH SUITABLE CORD AT THE TOP, BOTTOM AND 2" INTERVALS ALONG THE TRUNK. WRAP FROM GROUND TO THE HEIGHT OF THE FIRST BRANCH.
- F. STAKING AND GUYING OF TREES IS OPTIONAL. IF THE CONTRACTOR CHOOSES TO STAKE ALL OR PART OF THE TREES, HE/SHE SHALL USE THE METHOD SPECIFIED IN THE PLANTING DETAILS. ONE (1) STAKE IS TO BE USED ON TREES OF 1" CALIPER AND UNDER, OR 4" HEIGHT AND UNDER. TWO (2) STAKES ARE TO BE USED ON TREES OF 1" TO 2 3/4" CALIPER. GUY TREES OF 3" CALIPER OR LARGER AT THREE (3) PER TREE. THE ROOT BALL WILL NOT BE PIERCED WITH A STAKE. STAKES ARE TO BE DRIVEN AT LEAST EIGHTEEN (18) INCHES INTO SUBSOIL BELOW THE PLANTING HOLE. STAKES AND WIRE ATTACHMENTS SHALL BE REMOVED AFTER THREE MONTHS FOR SPRING PLANTED MATERIAL AND BY THE FOLLOWING MAY FOR FALL PLANTED STOCK BY THE CONTRACTOR. STAKING AND GUYING SHOULD BE DONE IMMEDIATELY AFTER LAWN SEEDING OR SODDING OPERATIONS.
- G. SEEDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE TREATED AS FOLLOWS:
1. TOPSOIL SHALL BE SPREAD OVER ALL AREAS TO BE SEEDDED TO A MINIMUM DEPTH OF 6" WHEN COMPACTED (TO BE PERFORMED BY OTHERS).
 2. SEED MIXTURE AND APPLICATION RATE - USE PREMIUM SEED MIX AS SUPPLIED BY ARTHUR CLESEN, INC. APPLY AT A RATE OF 5 LBS./1000 S.F.
 3. APPLY FERTILIZERS AND CONDITIONERS AT THE RATE SPECIFIED PER SOIL TEST FINDINGS. IN LIEU OF SOIL TEST RESULTS, APPLY TWO (2) TONS OF GROUND AGRICULTURAL LIMESTONE AND 1000 LBS. 10-10-10 OR EQUIVALENT ANALYSIS FERTILIZER PER ACRE. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE OF AN ORGANIC ORIGIN.
 4. SOIL PREPARATION AREAS WHERE VEHICULAR TRAFFIC HAS COMPACTED THE SOIL SHALL BE LOOSENED/SCARIFIED TO A MINIMUM DEPTH OF 6" BEFORE FERTILIZING AND SEEDING. FINE GRADING OF ALL SEEDDED AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".
 5. WATERING SEEDDED AREAS SHALL BE DONE TO ENSURE PROPER GERMINATION. ONCE SEEDS HAVE GERMINATED, WATERING MAY BE DECREASED BUT THE SEEDLINGS MUST NEVER BE ALLOWED TO DRY OUT COMPLETELY. FREQUENT WATERING SHOULD BE CONTINUED APPROXIMATELY FOUR (4) WEEKS AFTER GERMINATION OR UNTIL

GRASS HAS BECOME SUFFICIENTLY ESTABLISHED TO WARRANT WATERING ON AN 'AS NEEDED' BASIS.

6. TURF IS BEING ESTABLISHED ON A VARIETY OF SLOPE CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT WHATEVER PROCEDURES HE/SHE DEEMS NECESSARY TO ESTABLISH THE TURF AS PART OF HIS/HER WORK. SEEDED AREAS WILL BE ACCEPTED WHEN ALL AREAS SHOW A UNIFORM STANDING OF THE SPECIFIED GRASS IN HEALTHY CONDITION AND AT LEAST 90 DAYS HAVE ELAPSED SINCE THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL SUBMIT WITH HIS/HER BID A DESCRIPTION OF THE METHODS AND PROCEDURES HE/SHE INTENDS TO USE.
- H. EROSION CONTROL BLANKET
 1. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION IN ALL AREAS SHOWN ON THE PLAN.
 2. INSTALL S-75 EROSION CONTROL BLANKET AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
 3. BLANKET SHOULD BE PREMARKED WITH STAPLE PATTERN.
 4. STAPLES SHOULD BE 8" WIRE STAPLES, APPLIED AT TWO (2) PER SQUARE YARD MINIMUM.
 5. SUITABLE EROSION CONTROL PRACTICES SHALL BE MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND ALL APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCES AND THE PLANS.
- I. SODDING OF SPECIFIED LAWN AREAS ON PLANS WILL BE COMPLETED AS FOLLOWS:
 1. RAKE SOIL SURFACE TO RECEIVE SOD TO COMPLETELY REMOVE ANY SOIL CRUST NO MORE THAN ONE DAY PRIOR TO LAYING SOD.
 2. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING LAWNS. DO NOT CREATE A MUDDY SOIL CONDITION.
 3. SOD SHALL BE LAID WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT PLANT DORMANT SOD OR IF THE GROUND IS FROZEN.
 4. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS; DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. WORK FROM BOARDS TO AVOID DAMAGE TO SUBGRADE OR SOD. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING OF ADJACENT SOD.
 5. PLACE TOP ELEVATION OF SOD 1/2 INCH BELOW ADJOINING EDGING OR PAVING.
 6. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
 7. AFTER SOD AND SOIL HAVE DRIED, ROLL SEEDED AREAS TO ENSURE A GOOD BOND BETWEEN THE SOD AND SOIL, AND TO REMOVE MINOR DEPRESSIONS AND IRREGULARITIES.
 8. SODDED SLOPES 3:1 OR GREATER SHALL BE STAKED TO PREVENT EROSION AND WASHOUT.
 9. WARRANTY SODDING FOR A PERIOD OF ONE (1) YEAR FROM THE END OF THE 90 DAY MAINTENANCE PERIOD. IF SOD FAILS OR LACKS VIGOR AND FULL GROWTH AS DETERMINED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR WILL REPEAT SITE PREPARATION OPERATIONS AND RE-SOD AFFECTED AREAS AT THE CONTRACTOR'S EXPENSE.

NOTE: SOD SHALL BE A PREMIUM KENTUCKY BLUEGRASS BLEND, AND IS REQUIRED IN ALL AREAS INDICATED ON THE PLANS AS WELL AS AREAS WHICH HAVE BEEN AFFECTED BY CONSTRUCTION. SOD CAN BE PLACED AS LONG AS WATER IS AVAILABLE AND THE GROUND SURFACE CAN BE PROPERLY PREPARED. SOD SHALL NOT BE LAID ON FROZEN OR SNOW COVERED GROUND. SOD SHOULD BE STRONGLY TAMPED TO LESS THAN TWO (2) INCHES OF SETTLEMENT. REMOVE WEEDS AND UNDESIRABLE NATIVE GRASSES. SOD SHOULD BE MACHINE CUT TO PAD THICKNESS OF 3/4" (PLUS OR MINUS 1/4"), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED (VAILABLE, NOT DORMANT). PROVIDE SOD OF UNIFORM PAD SIZES WITH MAXIMUM .5% DEVIATION IN EITHER LENGTH OR WIDTH. BROKEN PADS OR PADS WITH UNEVEN ENDS WILL NOT BE ACCEPTED. PROVIDE SOD CAPABLE OF SUPPORTING THEIR OWN WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10% OF PAD WILL NOT BE ACCEPTED.

- J. TIMING OF PLANT MATERIAL AND SEEDING OPERATIONS:
1. SEEDING OF SPECIFIED AREAS SHALL OCCUR WHEN THE SOIL TEMPERATURE IS ABOVE 55° F. NO SEED SHALL BE SOWN DURING PERIODS OF HIGH WINDS, OR WHEN THE GROUND IS NOT IN PROPER CONDITION FOR SEEDING (SEE SECTION 3-02 (G)). SEEDING OPERATIONS FOR THE SPECIFIED MIXES SHALL OCCUR IN THE SPRING TIME FRAME OF APRIL 15 THROUGH JUNE 30 AND IN THE SUMMER TIME FRAME OF AUGUST 15 THROUGH DECEMBER 1. THE MIXES CONTAINING BLUEGRASS AND FESCUE SEED MUST HAVE SIX WEEKS TO HARDEN OFF FOR WINTER SURVIVAL.
 2. SOD SHALL BE INSTALLED WHEN THE GROUND IS NOT FROZEN OR SNOW COVERED AND TEMPERATURES ARE LESS THAN 80° F. IT SHALL NOT BE PLACED DURING A PERIOD OF EXTENDED DROUGHT.
 3. HERBACEOUS ORNAMENTAL PLANTS SHALL BE PLANTED BETWEEN MAY 1 AND JUNE 15 OR BETWEEN AUGUST 15 AND DECEMBER 1.
 4. SPRING PLANTING OF WOODY ORNAMENTAL PLANTS SHALL BE PERFORMED FROM THE TIME THE SOIL CAN BE EASILY WORKED UNTIL JUNE 1, EXCEPT THAT EVERGREEN PLANTING SHALL END ON MAY 15. OAK, HAWTHORN AND RED MAPLE SPECIES WILL BE PLANTED DURING THE SPRING PLANTING PERIOD. FALL PLANTING WILL BEGIN AUGUST 15 AND WILL CONTINUE UNTIL THE GROUND CANNOT BE WORKED SATISFACTORILY, EXCEPT THAT EVERGREEN PLANTING SHALL BE PERFORMED BETWEEN AUGUST 15 AND DECEMBER 1.

3-04 MAINTENANCE:

- A. ALL PLANTINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS AFTER PRELIMINARY ACCEPTANCE BY THE OWNER OR HIS/HER REPRESENTATIVE. MAINTENANCE SHALL INCLUDE BUT IS NOT LIMITED TO: MOWING AND EDGING TURF, PULLING WEEDS, WATERING TURF AREAS AND PLANT MATERIAL PLUS ANNUAL FLOWER MAINTENANCE. THE CONTRACTOR WILL RESET SETTLED PLANTS TO PROPER GRADE AND POSITION. DEAD MATERIAL WILL BE REMOVED. STAKES AND GUY WIRES WILL BE TIGHTENED AND REPAIRED AS REQUIRED.

3-04 ACCEPTANCE:

- A. ALL PLANT MATERIAL (EXCLUDING ANNUAL COLOR), SHALL BE WARRANTED FOR ONE (1) YEAR AFTER THE END OF THE 90 DAY MAINTENANCE PERIOD. THE END OF THE MAINTENANCE PERIOD IS MARKED BY THE FINAL ACCEPTANCE OF THE CONTRACTOR'S WORK BY THE OWNER OR HIS/HER REPRESENTATIVE.

3-06 SITE CLEAN-UP:

- A. THE CONTRACTOR SHALL PROTECT THE PROPERTY OF THE OWNER AND THE WORK OF OTHER CONTRACTORS. THE CONTRACTOR SHALL ALSO BE DIRECTLY RESPONSIBLE FOR ALL DAMAGE CAUSED BY THE ACTIVITIES AND FOR THE DAILY REMOVAL OF ALL TRASH AND DEBRIS FROM HIS/HER WORK AREA TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT

DATE	REVISIONS	DRAWN BY
08/15/25	REVISED PER NEW BMP AT ENTRANCE	MN
05/12/25	MN	---
04/23/25	REVISED PER NEW BASIN AT ENTRANCE	MN

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SHEET		
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