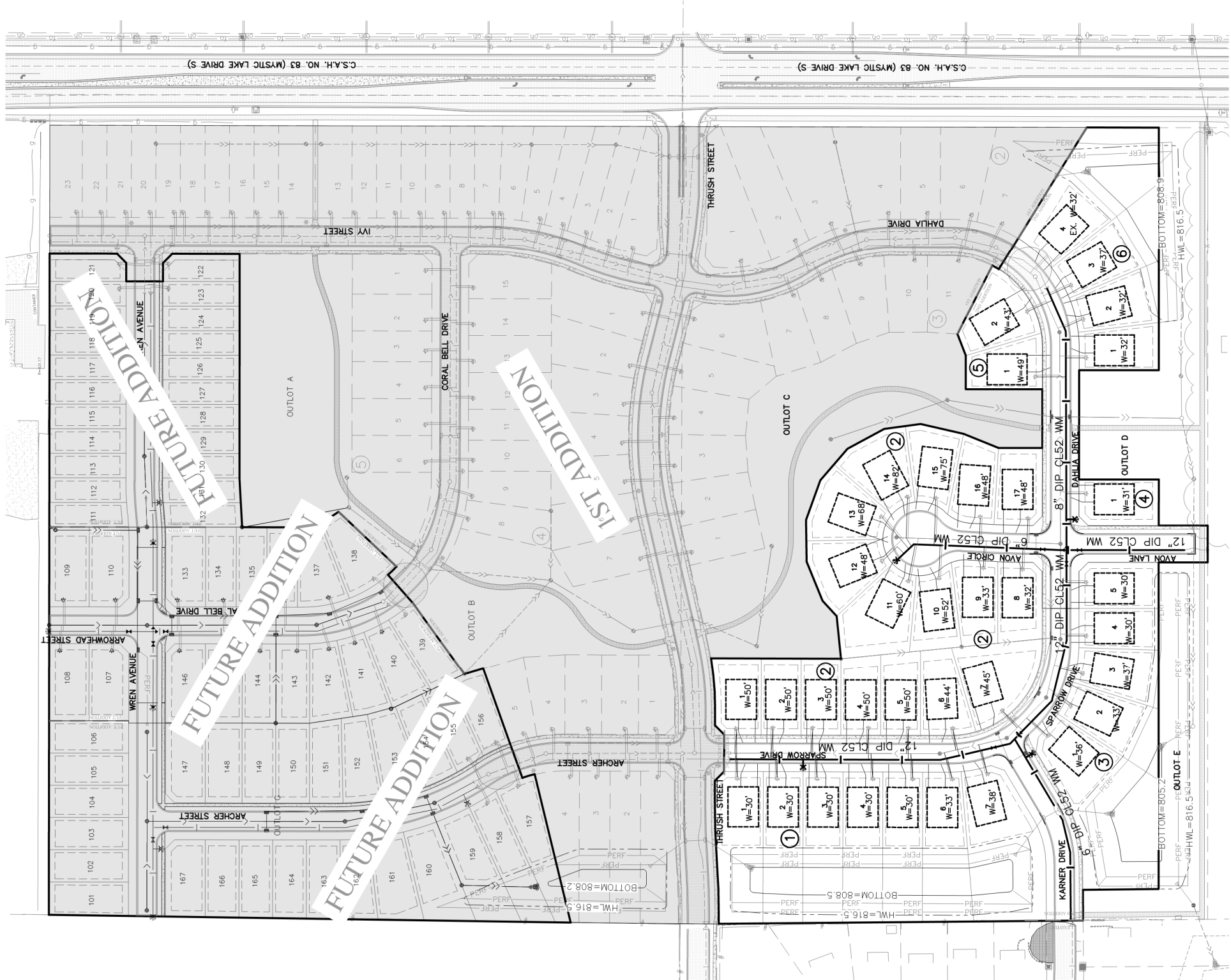


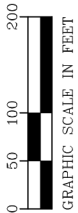


SPUC APPROVAL	CITY APPROVAL	DATE	REVISION
APPROVED FOR ONE YEAR FROM THIS DATE			
SHAKOPEE PUBLIC UTILITIES COMMISSION		DATE	
ALL MATERIALS & CONSTRUCTION METHODS SHALL COMPLY WITH SHAKOPEE PUBLIC UTILITIES COMMISSION WATER POLICY MANUAL DATED AUGUST 04, 2014.			

LEGEND:



EXISTING & FUTURE CONSTRUCTION



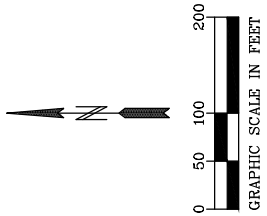
BENCH MARK
MN DOT MONUMENT BLASCHKO
AT TRUNK HIGHWAY 169 AND
COUNTY ROAD 83
ELEV.=774.78

02-ENG-121089-SHEET-OVERALL-WATR



LEGEND:

EXISTING & FUTURE CONSTRUCTION



BENCH MARK
MN DOT MONUMENT BLASCHKO
AT TRUNK HIGHWAY 169 AND
COUNTY ROAD 83
ELEV.=774.78

02-ENG-121088-SHEET-OVER-ALL-SSWR

VALLEY CREST 2ND ADDITION
SHAKOPEE, MINNESOTA

M/I HOMES
5354 PARKDALE DR. #100
ST. LOUIS PARK, MINNESOTA 55416

OVERALL SANITARY SEWER

Date: 11-25-2021
Designed: JMM
Drawn: JMM/PTS

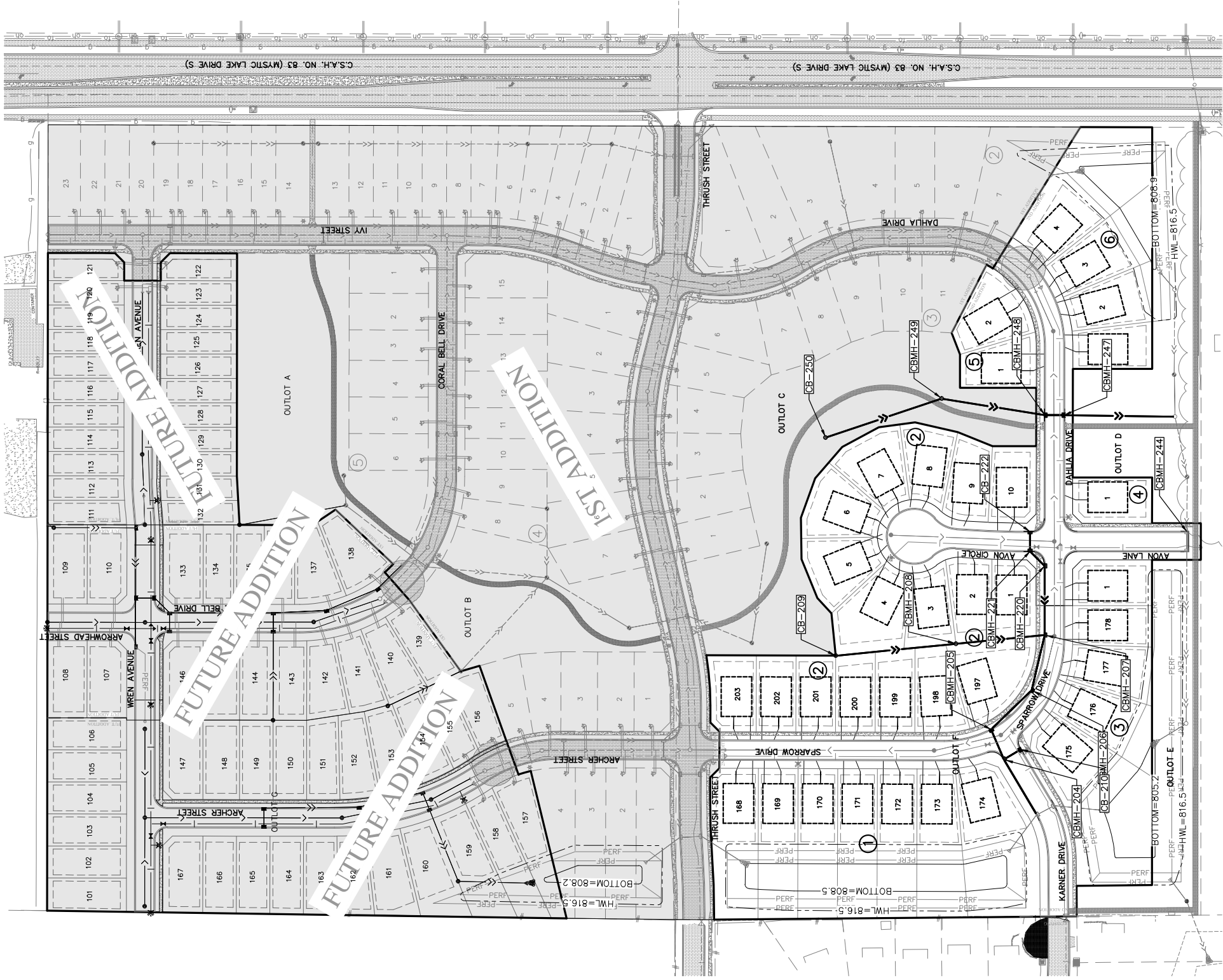
Revisions:
1. 02-22-23 - Phase Change

Name: John M. Molinaro
Reg. No.: 45831 Date: 11-25-2021

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

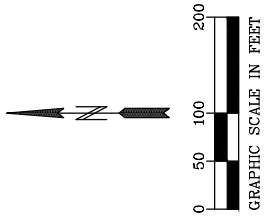
PIONEERengineering
CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECTS
(651) 681-1914
2422 Enterprise Drive
Mendota Heights, MN 55120
Fax: 681-9488
www.pioneereng.com

© 2019 Pioneer Engineering, P.A.



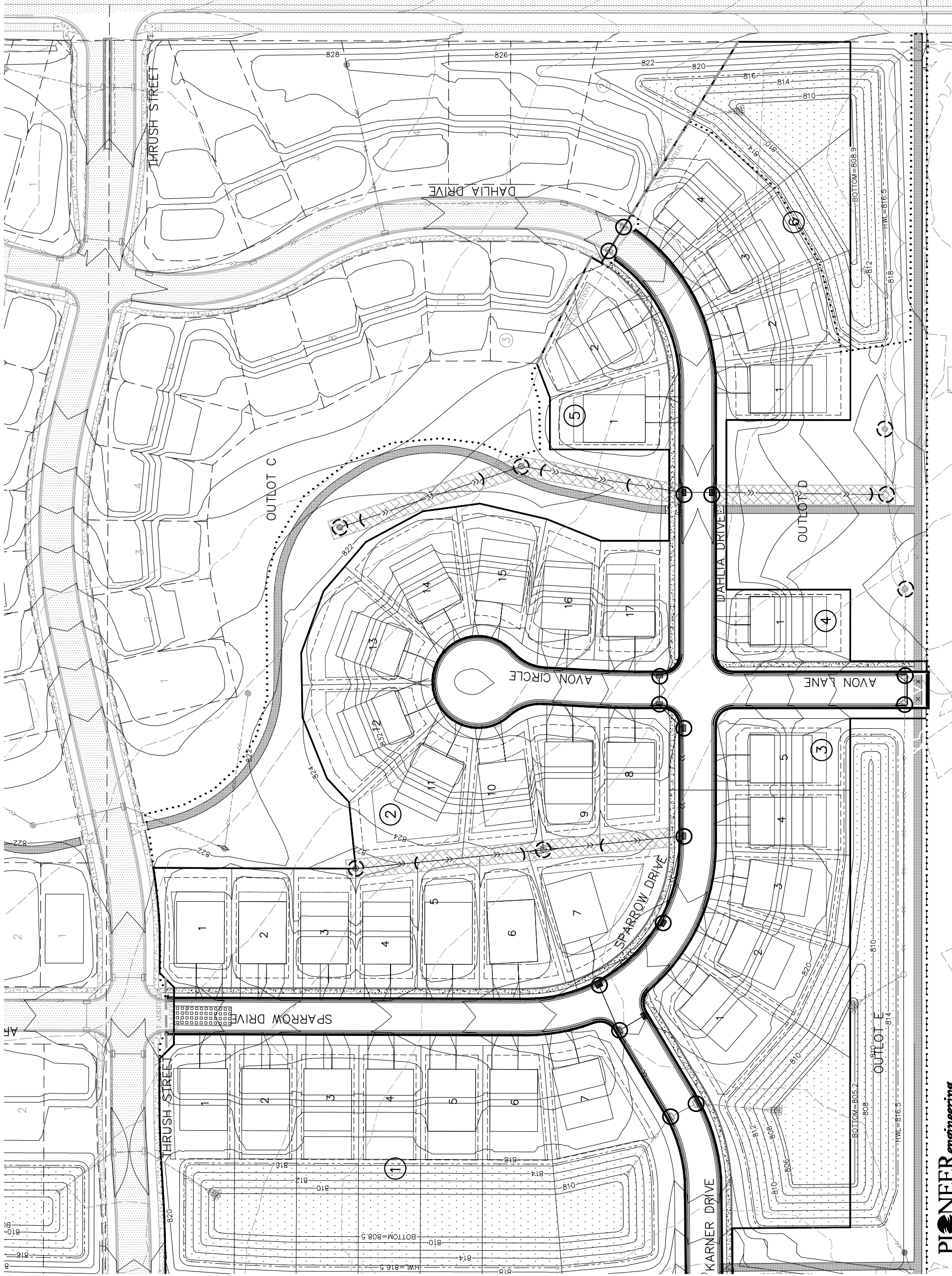
LEGEND:

EXISTING & FUTURE CONSTRUCTION

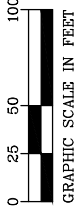


BENCH MARK
MN DOT MONUMENT BLASCHKO
AT TRUNK HIGHWAY 169 AND
COUNTY ROAD 83
ELEV.=774.78

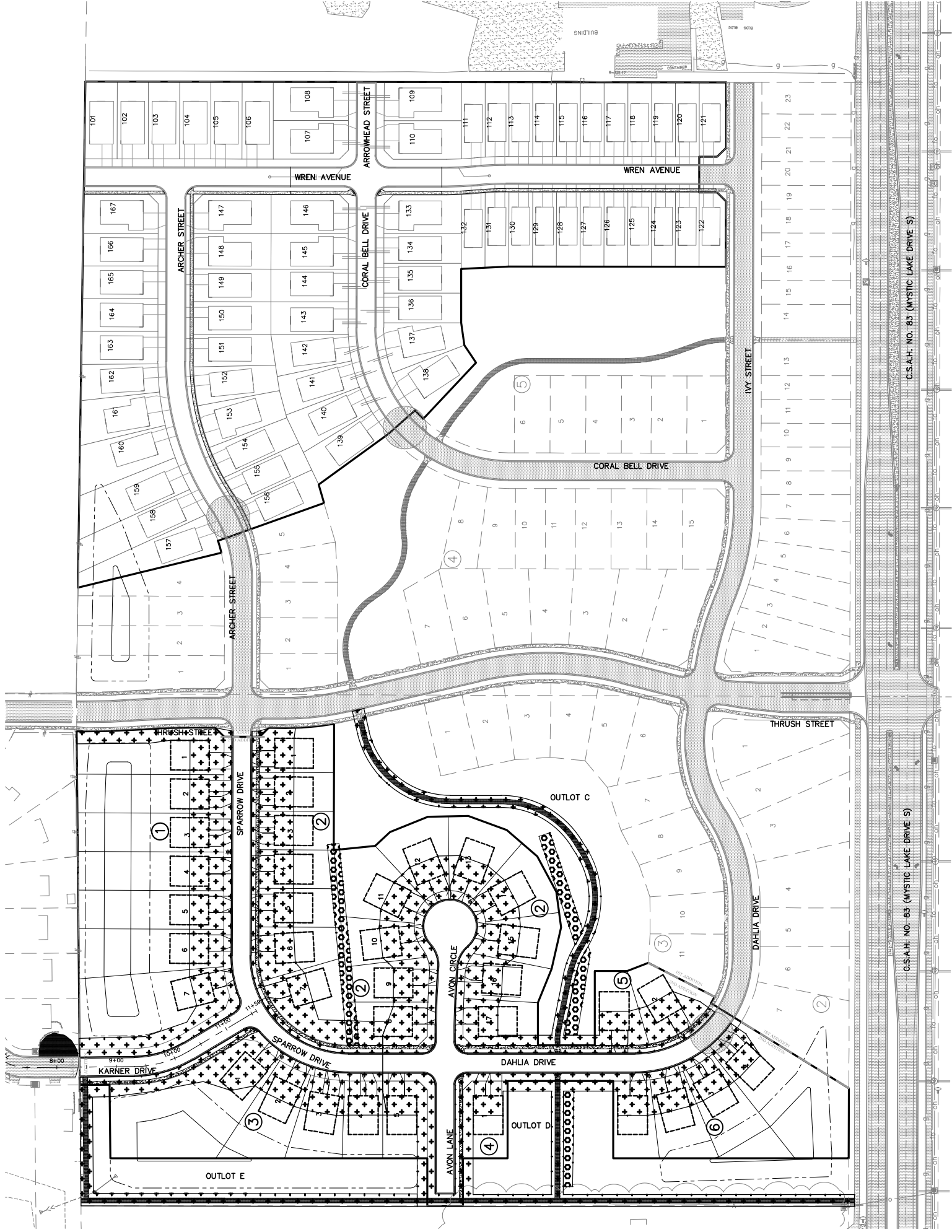
02-ENG-121089-SHEET-OVERALL-STRM



- LEGEND
- ROCK CONSTRUCTION ENTRANCE
INSTALL BEFORE START OF GRADING
 - PERIMETER EROSION CONTROL FENCE.
INSTALL BEFORE START OF GRADING
 - SECONDARY EROSION CONTROL FENCE.
TO BE INSTALLED 48 HOURS AFTER
COMPLETION OF GRADING.
 - 2' SOD OR EROSION CONTROL FENCE AT
BACK OF CURB. TO BE INSTALLED AFTER
COMPLETION OF SIDEWALK CONSTRUCTION.
 - SUMPED RIP RAP PERMANENT ENERGY
DISSIPATER. INSTALL WITHIN 24 HOURS
AFTER CONNECTION TO A SURFACE WATER.
 - CATCH BASIN INLET PROTECTION
TO BE INSTALLED AFTER 1ST LIFT
OF BITUMINOUS.
 - CATCH BASIN INLET PROTECTION
TO BE INSTALLED WITH CATCH
BASIN GRATE.
 - STRAW BIO ROLLS. INSTALL WITHIN 7 DAYS
OF GRADING COMPLETION OR BEFORE 1ST
RAINFALL EVENT WHICHEVER IS FIRST
 - ROCK BERM. INSTALL WITHIN 7 DAYS OF
GRADING COMPLETION OR BEFORE 1ST
RAINFALL EVENT WHICHEVER IS FIRST
 - STABILIZED EMERGENCY OVERFLOW
 - MNDOT CAT 20 EROSION CONTROL BLANKET.
INSTALL WITHIN 7 DAYS OF GRADING
COMPLETION
 - FILTRATION AREA



BENCH MARK
MN DOT MONUMENT BLASCHKO
AT TRUNK HIGHWAY 169 AND
COUNTY ROAD 83
ELEV.=774.78



PERMANENT TURF RESTORATION SHALL BE DONE IN ACCORDANCE WITH MNDOT 2575 & 3876 CONSISTING OF:

- MNDOT MIXTURE 25-141 AT 75 POUNDS PER ACRE.
- MULCH SHALL BE MNDOT TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED.
- TYPE 3 FERTILIZER, 22-5-5-10 80%N.I.N @ 350 LBS PER ACRE.
- SEE SHEET L3-3 FOR ADDITIONAL BASIN SEEDING DETAILS



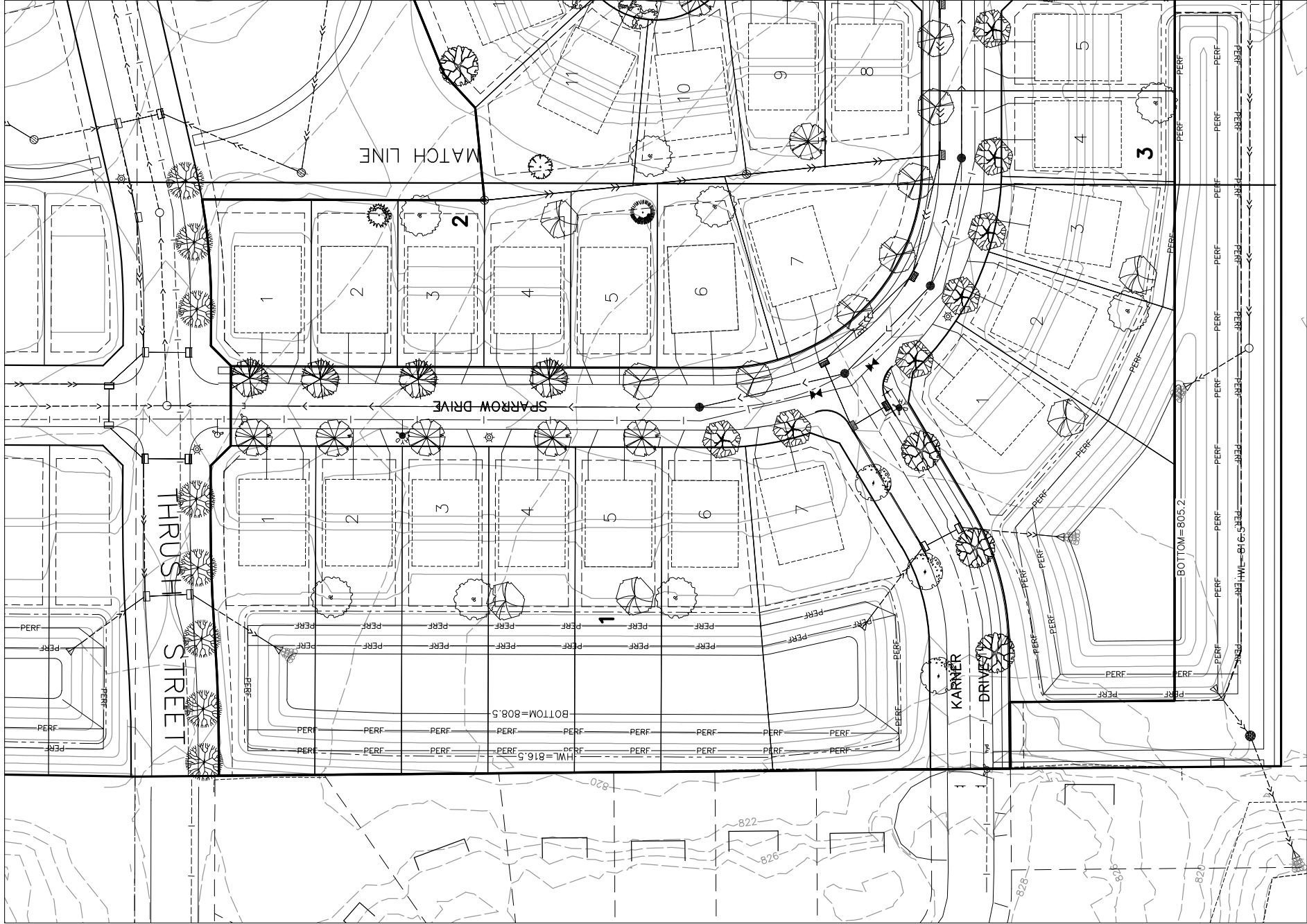
UPLAND/NATURAL AREA SEEDING SHALL BE DONE IN ACCORDANCE TO MNDOT 2575 & 3876, CONSISTING OF:

- MINNESOTA STATE SEED MIXTURE 35-621 (DRY PRAIRIE SOUTHEAST) AT 1.0 POUNDS PER ACRE.
- MULCH SHALL BE MNDOT TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL.
- MNDOT 3881, TYPE 4, NATURAL-BASED FERTILIZER, 18-1-8 @ 120 LBS PER ACRE OR 17-10-7 @ 150 LBS PER ACRE



GRAPHIC SCALE IN FEET

BENCH MARK
MN DOT MONUMENT BLASCHKO
AT TRUNK HIGHWAY 169 AND
COUNTY ROAD 83
ELEV.=774.78

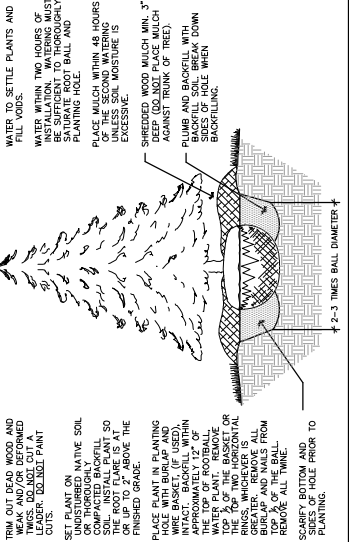


LANDSCAPE DATA (ENTIRE PROJECT):
TREES REQUIRED: 2 NON-ORNAMENTAL TREES PER SINGLE FAMILY LOT
PROPOSED SF LOTS:175
TREES REQUIRED:350
TOTAL TREES PROPOSED:519

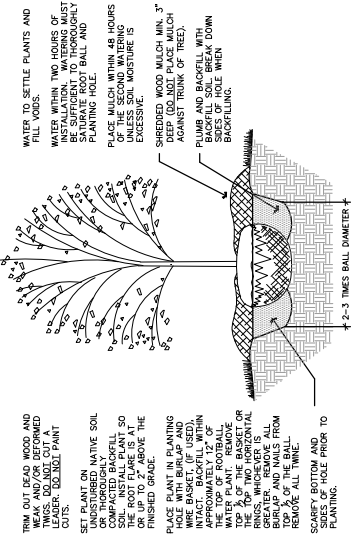
LANDSCAPE NOTES

- THE LANDSCAPE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF PROPOSED PHYSICAL START DATE AT LEAST 7 DAYS IN ADVANCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING UTILITY LOCATIONS AND DEPTHS. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.
- GRADING TO BE PERFORMED BY OTHERS.
- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- ALL PLANT MATERIAL SHALL MEET THE STANDARDS FOUND IN THE AMERICAN ASSOCIATION OF NURSERMEN-AMERICAN STANDARD FOR NURSERY STOCK.
- ALL CONTAINER MATERIAL TO BE GROWN IN THE CONTAINER A MINIMUM OF SIX (6) MONTHS PRIOR TO PLANTING ON SITE.
- DECIDUOUS AND CONIFEROUS TREES SHALL NOT BE STAVED, BUT THE LANDSCAPE CONTRACTOR MUST GUARANTEE STABILITY TO A WIND SPEED OF 60 MPH.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM GUARANTEE OF ONE YEAR ONE TIME REPLACEMENT ON NEW PLANT MATERIALS. GUARANTEE SHALL BE AGREED UPON BY DEVELOPER/BUILDER AND LANDSCAPE CONTRACTOR.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING OR AFTER INSTALLATION.
- IF THERE IS A DISCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER SHOWN ON THE PLANT LIST, THE NUMBER SHOWN ON THE PLAN WILL TAKE PRECEDENCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO BE SHOWN ON THE PLAN. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANT SCHEDULE.
- COMMERCIAL GRADE POLY LAMIN EDGING SHALL BE INSTALLED WHERE NOTED.
- THE LANDSCAPE CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE SITE CAUSED BY THE PLANTING OPERATION AT NO COST TO THE OWNER.
- THE LANDSCAPE CONTRACTOR SHALL KEEP PAVEMENTS CLEAN UNSTAINED. ALL PEDESTRIAN AND VEHICLE ACCESS SHALL BE MAINTAINED AND NOT OBSTRUCTED. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS AND PERMITS GOVERNING THE WORK.
- STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.

CONIFEROUS TREE PLANTING DETAIL



DECIDUOUS TREE PLANTING DETAIL

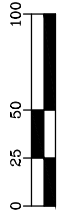


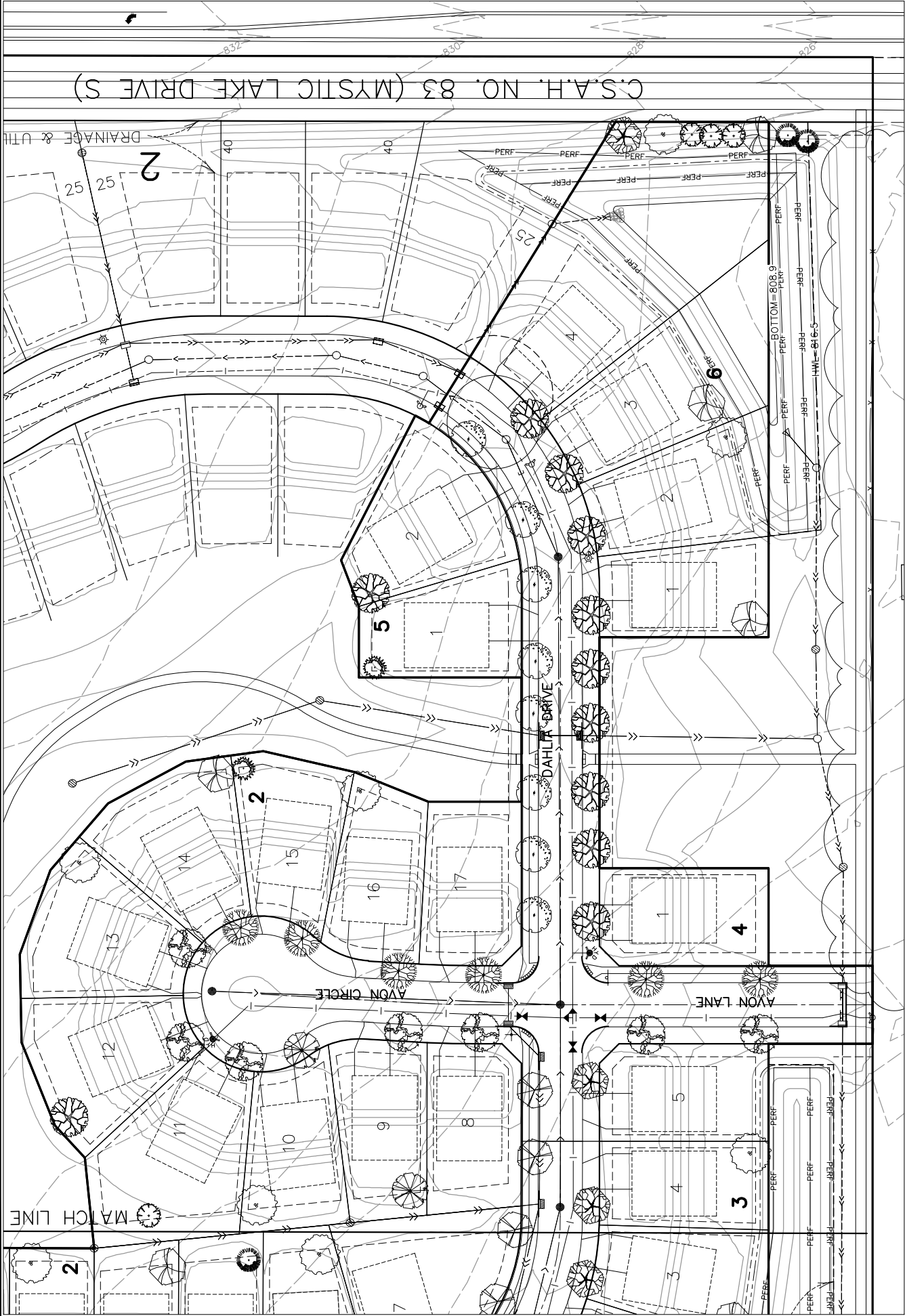
SOIL COMPACTION REQUIREMENTS PER ORDINANCE

Planting Space Volume Required	Soil Cubic Feet	Maximum Depth for Volume Calculation	Maximum Compaction
One tree	700	3 feet	200 PSI or 80% Standard Proctor
Two trees	1,000	3 feet	200 PSI or 80% Standard Proctor

PLANT SCHEDULE (2ND ADDITION)

KEY	COMMON NAME /Scientific name	ROOT	QUANTITY	INSTRUCTIONS
	OVERSTORY TREES			
	NORTHWOOD MAPLE /Acer rubrum 'Northwood'	2.5" B&B	7	
	KENTUCKY COFFEE TREE /Gymnocladus dioica	2.5" B&B	14	
	COMMON HACKBERRY/Celtis occidentalis	2.5" B&B	7	
	THORNLESS HONEYLOCUST/Gleditsia triacanthos var. inermis	2.5" B&B	7	
	NORTHERN PIN OAK/Quercus ellipsoidalis	2.5" B&B	4	
	BOULEVARD LINDEN/Tilia americana 'Boulevard'	2.5" B&B	11	
	SIENNA GLEN MAPLE/Acer x freemanii 'Sienna Glen'	2.5" B&B	14	
	RED OAK/Quercus rubrum	2.5" B&B	8	
	RIVER BIRCH/Betula nigra	10-12" B&B	12	
	SWAMP WHITE OAK/Quercus bicolor	2.5" B&B	9	
	EVERGREEN TREES			
	BLACK HILLS SPRUCE/Picea glauca densata	6" B&B	3	
	WHITE PINE/Pinus strobus	6" B&B	3	
	NORWAY SPRUCE/Picea abies	6" B&B	3	
	BALSAM FIR/Abies Balsamea	6" B&B	--	





PLANT SCHEDULE (2ND ADDITION)			
KEY	COMMON NAME/Scientific name	ROOT	QUANTITY/INSTRUCTIONS
OVERSTORY TREES			
	NORTHWOOD MAPLE/Acer rubrum 'Northwood'	2.5" B&B	7
	KENTUCKY COFFEE TREE/Gymnocladus dioicus	2.5" B&B	14
	COMMON HACKBERRY/Celtis occidentalis	2.5" B&B	7
	THORNLESS HONEYLOCUST/Gleditsia triacanthos var. inermis	2.5" B&B	7
	NORTHERN PIN OAK/Quercus ellipsoidalis	2.5" B&B	4
	BOULEVARD LINDEN/Tilia americana 'Boulevard'	2.5" B&B	11
	SIENNA GLEN MAPLE/Acer x freemanii 'Sienna Glen'	2.5" B&B	14
	RED OAK/Quercus rubrum	2.5" B&B	8
	RIVER BIRCH/Betula nigra	10-12' B&B	12
	SWAMP WHITE OAK/Quercus bicolor	2.5" B&B	9
EVERGREEN TREES			
	BLACK HILLS SPRUCE/Picea glauca densata	6' B&B	3
	WHITE PINE/Pinus strobus	6' B&B	3
	NORWAY SPRUCE/Picea abies	6' B&B	3
	BALSAM FIR/Abies Balsamea	6' B&B	--

LANDSCAPE DATA (ENTIRE PROJECT):

TREES REQUIRED: 2 NON-ORNAMENTAL TREES PER SINGLE FAMILY LOT

PROPOSED SF LOTS:175

TREES REQUIRED:350

TOTAL TREES PROPOSED:519

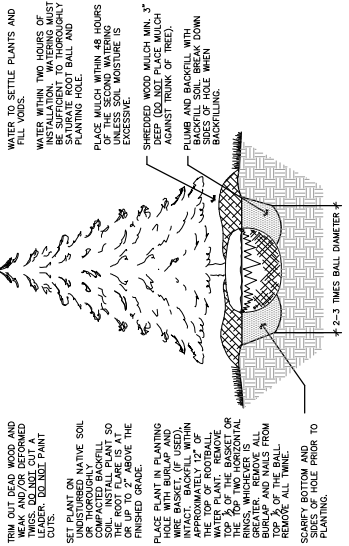
SOIL COMPACTION REQUIREMENTS PER ORDINANCE

Planting Space Volume Required	Soil Cubic Feet	Maximum Depth for Volume Calculation	Maximum Compaction
One tree	700	3 feet	200 PSI or 80% Standard Proctor
Two trees	1,000	3 feet	200 PSI or 80% Standard Proctor

LANDSCAPE NOTES

- THE LANDSCAPE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF PROPOSED PHYSICAL START DATE AT LEAST 7 DAYS IN ADVANCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING UTILITY LOCATIONS AND DEPTHS. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.
- GRADING TO BE PERFORMED BY OTHERS.
- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- ALL PLANT MATERIAL SHALL MEET THE STANDARDS FOUND IN THE AMERICAN ASSOCIATION OF NURSERMEN-AMERICAN STANDARD FOR NURSERY STOCK.
- ALL CONTAINER MATERIAL TO BE GROWN IN THE CONTAINER A MINIMUM OF SIX (6) MONTHS PRIOR TO PLANTING ON SITE.
- DECIDUOUS AND CONIFEROUS TREES SHALL NOT BE STAKED, BUT THE LANDSCAPE CONTRACTOR MUST GUARANTEE STABILITY TO A WIND SPEED OF 40 M.P.H.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM GUARANTEE OF ONE YEAR ONE TIME REPLACEMENT ON NEW PLANT MATERIALS. GUARANTEE SHALL BE ISSUED UPON BY DEVELOPER/BUILDER AND LANDSCAPE CONTRACTOR SIGNATURE AND DATE. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES DAMAGED DURING OR AFTER INSTALLATION.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING OR AFTER INSTALLATION.
- IF THERE IS A DISCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER SHOWN ON THE PLANT LIST, THE NUMBER SHOWN ON THE PLAN WILL TAKE PRECEDENCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO BE SHOWN ON THE PLAN. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANT SCHEDULE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES DAMAGED DURING OR AFTER INSTALLATION.
- COMMERCIAL GRADE POLY LAWN EDGING SHALL BE INSTALLED WHERE NOTED.
- THE LANDSCAPE CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE SITE CAUSED BY THE PLANTING OPERATION AT NO COST TO THE OWNER.
- THE LANDSCAPE CONTRACTOR SHALL KEEP PAYMENTS CLEAN UNSTAINED. ALL PEDESTRIAN AND VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. ALL PLANTS SHALL BE REMOVED FROM THE SITE IMMEDIATELY AFTER PLANTING. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS AND PERMITS GOVERNING THE WORK.
- STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.

CONIFEROUS TREE PLANTING DETAIL



DECIDUOUS TREE PLANTING DETAIL

