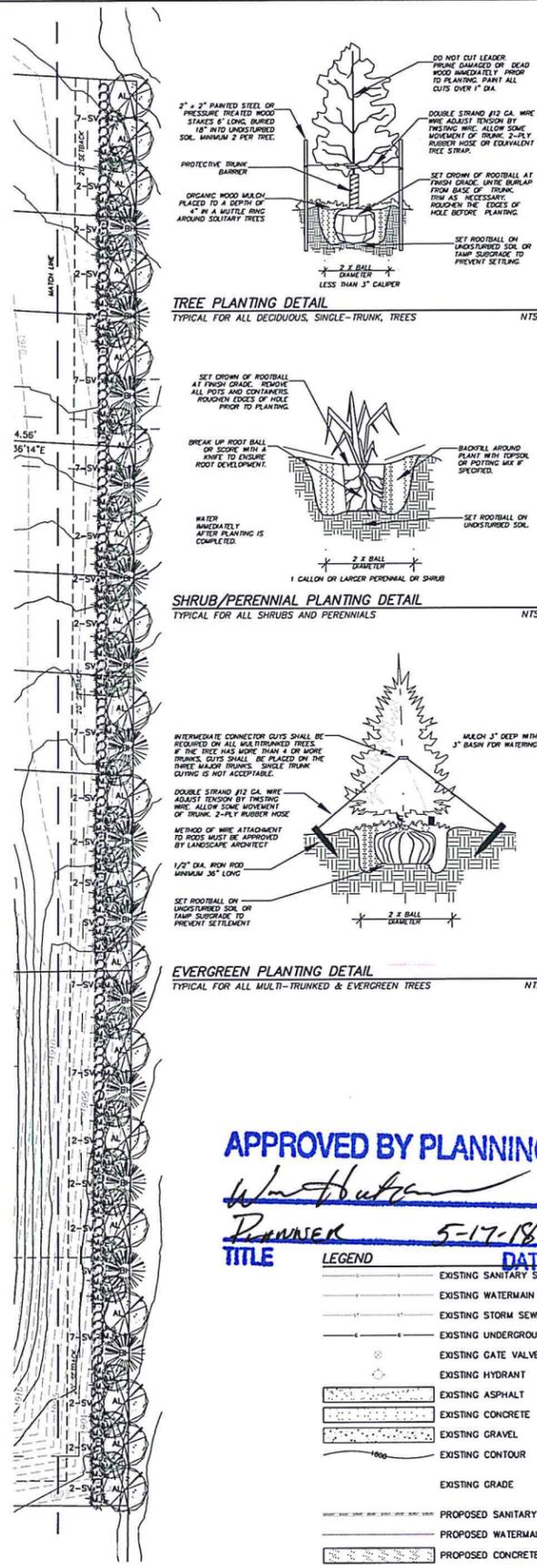
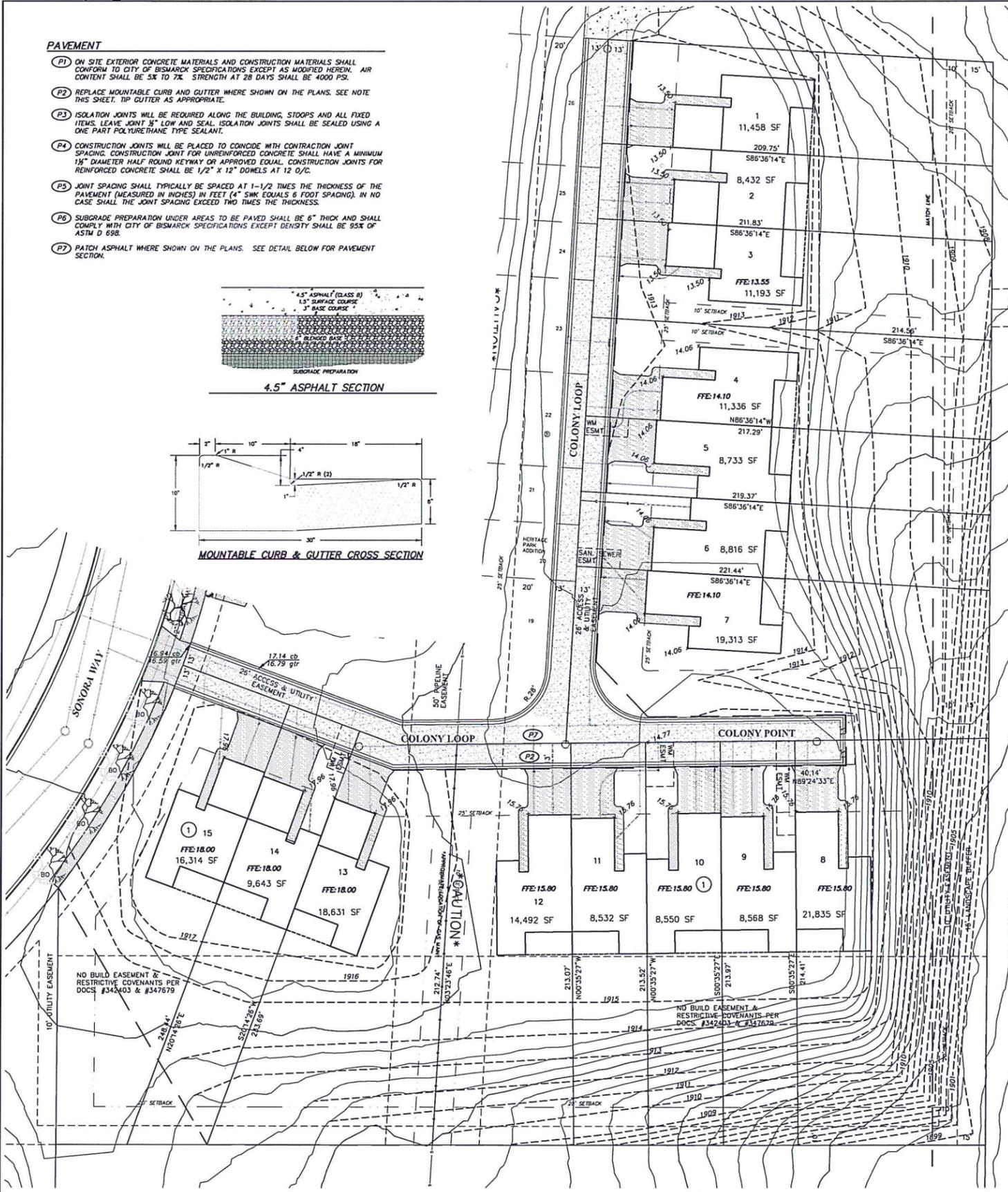
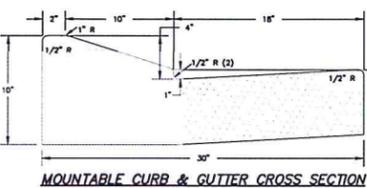
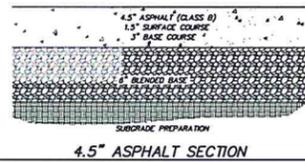


**PAVEMENT**

- P1 ON SITE EXTERIOR CONCRETE MATERIALS AND CONSTRUCTION MATERIALS SHALL CONFORM TO CITY OF BISMARCK SPECIFICATIONS EXCEPT AS MODIFIED HEREIN. AIR CONTENT SHALL BE 5% TO 7% STRENGTH AT 28 DAYS SHALL BE 4000 PSI.
- P2 REPLACE MOUNTABLE CURB AND GUTTER WHERE SHOWN ON THE PLANS. SEE NOTE THIS SHEET, TIP GUTTER AS APPROPRIATE.
- P3 ISOLATION JOINTS WILL BE REQUIRED ALONG THE BUILDING, STOODS AND ALL FIXED ITEMS. LEAVE JOINT 1/2" LOW AND SEAL. ISOLATION JOINTS SHALL BE SEALED USING A ONE PART POLYURETHANE TYPE SEALANT.
- P4 CONSTRUCTION JOINTS WILL BE PLACED TO COINCIDE WITH CONTRACTION JOINT SPACING. CONSTRUCTION JOINT FOR UNREINFORCED CONCRETE SHALL HAVE A MINIMUM 1/2" DIAMETER HALF ROUND KEYWAY OR APPROVED EQUAL. CONSTRUCTION JOINTS FOR REINFORCED CONCRETE SHALL BE 1/2" X 12" DOWELS AT 12 O.C.
- P5 JOINT SPACING SHALL TYPICALLY BE SPACED AT 1-1/2 TIMES THE THICKNESS OF THE PAVEMENT (MEASURED IN INCHES) IN FEET (4" MIN. EQUALS 6 FOOT SPACING). IN NO CASE SHALL THE JOINT SPACING EXCEED TWO TIMES THE THICKNESS.
- P6 SUBGRADE PREPARATION UNDER AREAS TO BE PAVED SHALL BE 6" THICK AND SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS EXCEPT DENSITY SHALL BE 95% OF ASTM D 698.
- P7 PATCH ASPHALT WHERE SHOWN ON THE PLANS. SEE DETAIL BELOW FOR PAVEMENT SECTION.



**GENERAL LANDSCAPING NOTES FOR ALL SHEETS**

- 1 ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR THIS LANDSCAPING PROJECT SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS.
- 2 PROTECT THE IMPROVEMENTS ON SITE AND ON THE ADJOINING PROPERTIES. PROVIDE BARRICADES, CONE TRAFFIC OR OTHER TYPE OF PROTECTION AS NECESSARY TO PREVENT DAMAGE AND TO SAFEGUARD AGAINST INJURY TO EXISTING UTILITIES.
- 3 DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- 4 ALL PLANTING BEDS SHALL BE INSTALLED WITH 3" OF 2" CRUSHED ROCK MULCH, LANDSCAPE FABRIC WITH A MINIMUM HEIGHT OF 4 OZ./SQ. YD. AND WHERE NECESSARY, 6" COMMERCIAL GRADE BLACK PLASTIC EDGING TO CONTAIN THE PLANTING BED.
- 5 ALL LANDSCAPE PLANTINGS ARE TO BE WATERED BY THE LANDSCAPE CONTRACTOR THE SAME DAY THAT THE PLANTING OCCURS. IF WATER IS NOT AVAILABLE AT THE BUILDING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALTERNATIVE METHODS FOR WATERING.
- 6 SOLITARY TREES DO NOT NEED TO BE EDGED AROUND, HOWEVER ORGANIC WOOD MULCH SHALL BE PLACED AROUND THE TREE IN A MUTILLE RING THAT CONFORMS TO THE DETAIL PROVIDED FOR TREE PLANTINGS.
- 7 CONTRACTOR SHALL PROVIDE WRITTEN WARRANTIES CONFIRMING THE FOLLOWING:  
FURNISHED TREES GUARANTEED TO LIVE AND REMAIN STRONG, VIGOROUS, AND HEALTHY CONDITION FOR 365 DAYS MINIMUM FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETED.
- 8 LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND CARING FOR ALL PLANT MATERIAL, AND OTHER LANDSCAPING IMPROVEMENTS UNTIL THE DATE OF FINAL INSPECTION AND APPROVAL.
- 9 LANDSCAPE BUFFER IS 15' WIDE AND 575' LONG.

**TOPSOIL NOTES**

- 1 TOPSOIL IS STOCKPILED ON SITE AND WILL BE PLACE FOR THE LANDSCAPE CONTRACTOR TO SPREAD AND FINISH GRADE. ALL PORTIONS OF THE SITE NOT RECEIVING CONCRETE, CURB & GUTTER OR OTHER IMPROVEMENTS SHALL BE COVERED WITH A MINIMUM OF 4" OF TOPSOIL AND SEEDED ACCORDING TO SPECIFICATIONS.
- 2 TOPSOIL SHALL BE PLACED AND SEED AS SOON AS PRACTICAL TO MINIMIZE WIND AND WATER EROSION. BACKFILL BEHIND CURB AND GUTTERS AND SIDEWALK AS SOON AS REASONABLE TO PREVENT STANDING WATER AND PROTECT THE IMPROVEMENTS.

**SEEDING NOTES**

- 1 CLEAR AND GRUB SITE BEFORE SEEDING ENSURING THAT THE SITE IS IN A SMOOTH CONDITION WITH NO DEBRIS OR ROCKS LARGER THAN 2" IN DIAMETER.
- 2 FERTILIZE SOIL DURING THE SEEDING PROCESS USING AN APPROPRIATE APPLICATION PROCESS. FERTILIZER SHALL BE 10-10-10 AND APPLIED AT A RATE OF 4 LBS. PER 1000 SQUARE FEET.
- 3 SEED SHALL BE DRILL SEED TO A DEPTH OF 1/4" TO 1/2" AND SHALL BE EVENLY SPREAD. AFTER SEED HAS BEEN SOWN, THE SOIL SHALL BE REPAKED IMMEDIATELY AFTER THE SEED IS APPLIED TO FIRM THE SOIL AROUND THE SEED. NO SEED SHALL BE PLACED ON DAYS WHERE THE WIND IS STRONG ENOUGH TO PREVENT IT FROM BEING PROPERLY IMBEDDED INTO THE SOIL.
- 4 SEED MUST SHOW A DENSITY OF 20 TO 30 SEEDLINGS PER SQUARE FOOT BEFORE ACCEPTANCE WILL OCCUR. THE CONTRACTOR SHALL FURNISH AND REPLACE WITHOUT ADDITIONAL COMPENSATION THEREFORE, ANY SEED FOR AREAS THAT HAVE NOT GERMINATED, HAVE DIED, OR ARE DAMAGED TO THE EXTENT THAT REPLACEMENT IS REQUIRED TO CONFORM TO THE REQUIREMENTS OUTLINED ABOVE. THE CONTRACT WARRANTY PERIOD SHALL ALSO APPLY TO THIS ITEM.
- 5 CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY EROSION SCARS OR WASHOUTS UNTIL THE DATE THAT FINAL SEED STAND IS ACCEPTED. SEE EROSION CONTROL PLAN FOR EROSION CONTROL METHODS.

**PLANT PALETTE**

SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QTY.
AL	AMERICAN LINDEN	Tilia americana	2" Cal.	19
AM	AMUR MAPLE	Acer ginnala	1 1/2" Cal.	25
BH	BLACK HILLS SPRUCE	Picea glauca var. densata	4"	14
BO	BUR OAK	Quercus macrocarpa	4"	4
MJ	MEDORA JUNIPER	Juniperus scopulorum 'Medora'	4"	58
SV	SAVIN JUNIPER	Juniperus sabina	2 Gallon	83

**LANDSCAPING REQUIREMENTS**

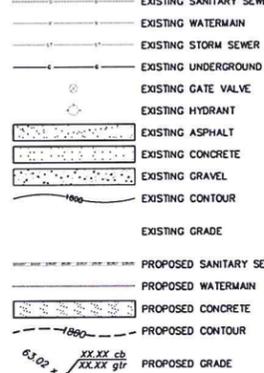
- REQUIRED STREET TREES: 3 PER 100 FEET = 4 TREES
- REQUIRED PERIMETER PARKING: CONTINUOUS HEDGE
- REQUIRED BUFFER YARD: 3 SHADE TREES/100 FEET, 4 ORNAMENTAL TREES/100 FEET, 2 LARGE UPRIGHT CONIFERS/100 FEET, 10 SMALL UPRIGHT CONIFERS/100 FEET, 14 SHRUBS/100 FEET
- PROVIDED STREET TREES: 4 TREES
- PROVIDED PERIMETER PARKING: CONTINUOUS HEDGE
- PROVIDED BUFFER YARD: 18 SHADE TREES, 25 ORNAMENTAL TREES, 14 UPRIGHT CONIFERS, 58 SMALL CONIFERS, 83 SHRUBS

APPROVED BY PLANNING

*W. H. Hagen*  
 Planner  
 TITLE  
 5-17-18  
 DATE

APPROVED BY FORESTRY

*M. J. ...*  
 LANDSCAPING  
 TITLE  
 5-17-18  
 DATE



FOR REGULATORY REVIEW ONLY - NOT FOR CONSTRUCTION

SCALE - 1" = 30'  
 NCGD 29 DATUM  
 APRIL 18, 2018

**WARRANTY / DISCLAIMER**  
 The designs prepared in these plans are in accordance with established practices of civil engineering. However, neither Swenson, Hagen & Company P.C. nor its personnel can or do warrant these plans as constructed except in the specific cases where Swenson, Hagen & Company P.C. personnel inspect and control the physical construction on a full time basis.

**SAFETY NOTICE TO CONTRACTOR**  
 In accordance with generally accepted construction practices the contractor will be solely and completely responsible for the safety of all workers and the public during the construction of the project. This responsibility shall not be transferred to Swenson, Hagen & Company P.C. by the issuance of these plans. This responsibility shall not be limited to normal business hours.

**NOTICE TO CONTRACTOR**  
 The location of existing underground utilities are shown in an approximate manner only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to identify locate and preserve any and all underground utilities.

**CALL BEFORE YOU DIG**  
 NORTH DAKOTA  
 UTILITIES UNDERGROUND LOCATION SERVICE  
 1-800-795-0555

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DATE: 5-8-18

REVISIONS: CITY COMMENTS

**SWENSON, HAGEN & COMPANY P.C.**  
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 Land Planning  
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 Construction Management

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**SHEET C3.0**

**GRADING, PAVING & LANDSCAPE PLAN**  
 LOTS 1-15 & BLOCK 1, HERITAGE PARK ADDITION FIRST REPLAT  
 BISMARCK, NORTH DAKOTA