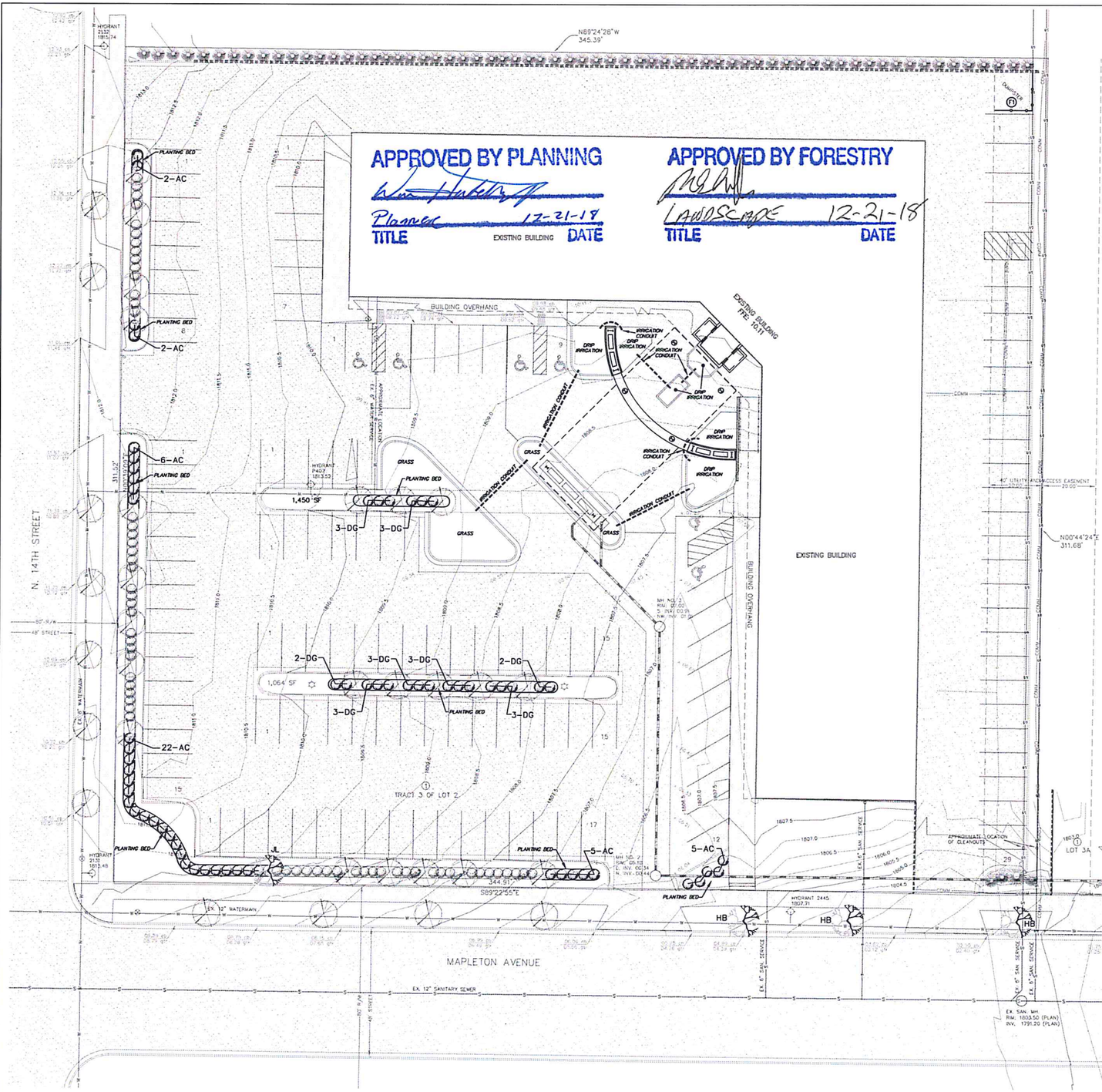
SP2018-084



LANDSCAPING REQUIREMENTS (139 PARKING STALLS)

REQUIRED INTERIOR LANDSCAPING:
1,390 SF
21 SHRUBS
7 SHADE TREES

PROVIDED INTERIOR LANDSCAPING:
2,514 SF
22 SHRUBS
8 EXISTING SHADE TREES

REQUIRED STREET TREES 14TH STREET:
3 PER 100 FEET = 10 TREES

PROVIDED STREET TREES:
7 TREES EXISTING

REQUIRED STREET TREES MAPLETON AVENUE:
3 PER 100 FEET = 11 TREES

PROVIDED STREET TREES:
5 TREES EXISTING
3 ADDITIONAL

REQUIRED PERIMETER PARKING 14TH STREET:
CONTINUOUS HEDGE

PROVIDED PERIMETER PARKING:
CONTINUOUS HEDGE AND 9 TREES PLUS ADDITIONAL HEDGE

REQUIRED PERIMETER PARKING:
CONTINUOUS HEDGE

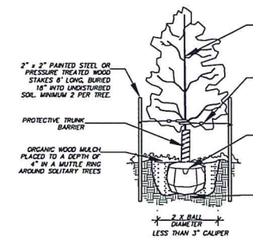
PROVIDED PERIMETER PARKING:
CONTINUOUS HEDGE AND 6 TREES PLUS ADDITIONAL HEDGE

FENCING NOTES

F1 A 6' HIGH OPAQUE VINYL FENCE SHALL BE INSTALLED ON THE EAST AND SOUTH SIDE OF THE DUMPSTER PAD SEE ARCHITECTURAL PLANS.

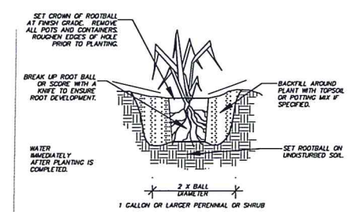
PLANT PALETTE

	SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QNTY.
TREES	HB	COMMON HACKBERRY	Celtis occidentalis	1-1/2" Cal.	3
	JL	JAPANESE LILAC	Syringa reticulata	1-1/2" Cal.	1
SHRUBS	AC	ALPINE CURRANT	Ribes alpinum	2 Gallon	42
	DG	DWARF GLOBE BLUE SPRUCE	Picea pungens 'Globosa'	2 Gallon	22



TREE PLANTING DETAIL

TYPICAL FOR ALL DECIDUOUS, SINGLE-TRUNK, TREES NTS



SHRUB/PERENNIAL PLANTING DETAIL

TYPICAL FOR ALL SHRUBS AND PERENNIALS NTS

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, COVERINGS OR OTHER TYPE OF PROTECTION AS NECESSARY TO PREVENT DAMAGE AND TO SAFEGUARD AGAINST INJURY TO EXISTING UTILITES.
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 5/8" CRUSHED ROCK MULCH, LANDSCAPE FABRIC WITH A MINIMUM WEIGHT OF 4 OZ./SY, AND 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 MUTTLE 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.

TOPSOIL NOTES

T1. 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.

T2. TOPSOIL SHALL BE IMPORTED AND PLACED AND SEEDED 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

S1. SEEDING SHALL CONFORM TO THE MOST RECENT VERSION OF THE CITY OF BISMARCK CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS IMPROVEMENTS FOR SEEDING EXCEPT WHERE MODIFIED HEREIN.

S2. 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.

S3. 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.

S4. SEED SHALL BE CLASS II FOR SUNNY AREAS PER CITY OF BISMARCK SPECIFICATIONS AND DRILL SEEDED TO A DEPTH OF 1/4" TO 1/2" AND SHALL BE EVENLY SPREAD. AFTER SEED HAS BEEN SOWN, THE SOIL SHALL BE REPACKED 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.

S5. 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.

S6. 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.

S7. ALL PORTIONS OF THE SITE THAT ARE TO BE SEEDED SHALL BE HYDROMULCHED. HYDROMULCH SHALL BE A WOOD CELLULOSE FIBER MULCH. MULCH SHALL BE FREE OF GERMINATION OR GROWTH INHIBITIVE SUBSTANCES, AS WELL AS ANY NOXIOUS WEED SEED. MULCH SHALL BE TREATED WITH A TACK AND FIBER TO ENHANCE SEED AND MULCH PLACEMENT AND ADHERENCE TO THE SOIL. THE HYDROMULCH SHALL BE APPLIED AT A RATE OF 2000 LBS/ACRE USING HYDRAULIC SPRAY EQUIPMENT.

IRRIGATION PERFORMANCE SPECIFICATION

R1. LOCATION OF EXISTING IRRIGATION ON SITE IS UNKNOWN. REMOVE EXISTING IRRIGATION TO PROVIDE IMPROVEMENTS.

R2. CONTRACTOR SHALL DESIGN AND PROVIDE A PRICE TO MODIFY THE EXISTING IRRIGATION SYSTEM TO PROVIDE IRRIGATION TO THE PROPOSED SITE LAYOUT.

R3. SYSTEM SHALL BE DESIGNED FOR 100% HEAD TO HEAD COVERAGE PROVIDING AT LEAST 1" OF MOISTURE PER WEEK. OVER SPRAY SHALL BE MINIMIZED ONTO PAVEMENT, SIDEWALKS, AND BUILDINGS.

R4. IRRIGATION CONTRACTOR SHALL MAKE ANY FIELD ADJUSTMENTS NECESSARY TO INSURE THAT THE COVERAGE IS HEAD TO HEAD. ALL CHANGES MUST BE DOCUMENTED. UPON COMPLETION OF THE JOB AN AS BUILT DRAWING INCLUDING PIPE SIZES, VALVE LOCATIONS AND HEAD LOCATIONS MUST BE GIVEN TO THE OWNER OR OWNERS REPRESENTATIVE.

R5. IRRIGATION CONTRACTOR SHALL FOLLOW ALL RECOMMENDED PRACTICES AS SET FORTH BY THE MANUFACTURER'S SPECIFICATIONS AND THE IRRIGATION ASSOCIATION.

R6. IRRIGATION CONTRACTOR SHALL INCLUDE THE FIRST YEARS WINTERIZATION IN THE COST OF THE PROJECT.

IRRIGATION CONDUITS

I1. CONTRACTOR SHALL INSTALL IRRIGATION CONDUITS TWO FEET BELOW FINISH GRADE ACROSS PAVED AREAS TO ISLANDS AND ACROSS DRIVEWAYS. CONDUITS SHALL BE TWICE THE SIZE OF THE LINE BEING INSTALLED. CONTRACTOR SHALL PROVIDE ASBUILT DRAWINGS OF CONDUITS WITH MINIMUM TWO DIMENSIONS TO KNOWN SURFACE FEATURES.

LEGEND

- EXISTING TREE
- EXISTING DECIDUOUS SHRUB
- EXISTING EVERGREEN SHRUB
- IRRIGATION CONDUIT
- PROPOSED TREE
- PROPOSED SHRUB

N W E S

0 20' 40'
SCALE – 1" = 20'
NGVD 29 DATUM
DECEMBER 3, 2018

THIS DOCUMENT WAS ORIGINALLY ISSUED AND SEALED BY JASON R. PETRYSZYN, REGISTRATION NUMBER PE-5345 ON DECEMBER 3, 2018 AND THE ORIGINAL DOCUMENT IS STORED AT THE OFFICE OF SWENSON, HAGEN & CO. P.C.

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NOTICE TO CONTRACTOR

The location of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representatives. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities.

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LANDSCAPE PLAN

SHEET
C4.0
OF 4