

WATERMAIN

W1 MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS. ALL BACKFILL SHALL BE 95% OF STANDARD PROCTOR AT RECOMMENDED MOISTURE CONTENT. WATERLINES SHALL BE CHLORINATED, PRESSURE TESTED AND FLUSHED. TESTING IS CONSIDERED INCIDENTAL.

W2 CONNECT TO 12" EXISTING WATERMAIN WITH 12"x1.5" TAPPING SADDLE (INV. 58.55). INSTALL 10.00 LF 1.5" WATER SERVICE AND CURBSTOP, AND 50.00 LF 1.5" WATER SERVICE WITH TEMPORARY CAP (INV. 59.25).

W3 CONNECT TO 12" EXISTING WATERMAIN WITH 12"x1.5" TAPPING SADDLE (INV. 58.96). INSTALL 10.00 LF 1.5" WATER SERVICE AND CURBSTOP, AND 30.00 LF 1.5" WATER SERVICE WITH TEMPORARY CAP (INV. 59.25).

SANITARY SEWER

S1 MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS. ALL BACKFILL SHALL BE 95% OF STANDARD PROCTOR AT RECOMMENDED MOISTURE CONTENT. TESTING IS CONSIDERED INCIDENTAL.

S2 CONNECT TO EXISTING 8" SANITARY SEWER WITH 8"x6" INSERTA TEE, INV. 57.77.

S3 CONNECT TO INSERTA TEE, INSTALL 51.17 LF 6" SANITARY SEWER AT 0.997% AND 6" CLEANOUT, INV. 58.28.

S4 CONNECT TO WYE (STA. 0+28), INV. 58.05, INSTALL 59.83 LF 6" AT 1.026% SANITARY SEWER AND 1000 GALLON WORKING CAPACITY SAND/OIL INTERCEPTOR (INV. 58.65).

S5 CONNECT TO SAND/OIL INTERCEPTOR, INV. 58.75 AND INSTALL 5.00 LF 6" SANITARY SEWER AT 0.8000% AND 6" CLEANOUT (INV. 58.79). INSTALL 5.00 LF 6" SANITARY SEWER AT 0.8000% AND TEMPORARY CAP, INV. 58.83.

S6 CONNECT TO WYE (STA. 0+44), INV. 58.21, INSTALL 15.00 LF 6" SANITARY SEWER AT 0.7333% AND 22.5' BEND, INV. 58.16.

S7 CONNECT TO BEND, INV. 58.16, INSTALL 14.46 LF 6" SANITARY SEWER AT 0.6916% AND 1000 GALLON WORKING CAPACITY SAND/OIL INTERCEPTOR, INV. 58.26.

S8 CONNECT TO SAND/OIL INTERCEPTOR, INV. 58.35, INSTALL 5.00 LF 6" SANITARY SEWER AT 0.8000% AND 6" CLEANOUT, INV. 58.39. INSTALL 5.00 LF 6" SANITARY SEWER AT 0.8000% AND TEMPORARY CAP, INV. 58.43.

APPROXIMATE WYE LOCATIONS

STATION	DIRECTION	INVERT
0+28	NW	57.95
0+44	NE	58.05

PLANT PALETTE

	SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QNTY.
TREES	HL	HONEYLOCUST	Gleditsia triacanthos	2" Cal.	7
SHRUBS	ID	ISANTI DOGWOOD	Cornus sericea 'santi'	2 Gallon	22

LANDSCAPING REQUIREMENTS

REQUIRED STREET TREES: 3 PER 100 FEET
7 TREES

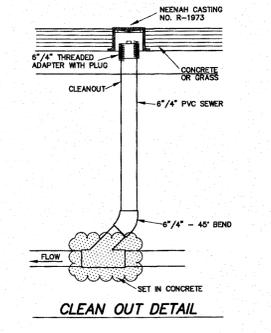
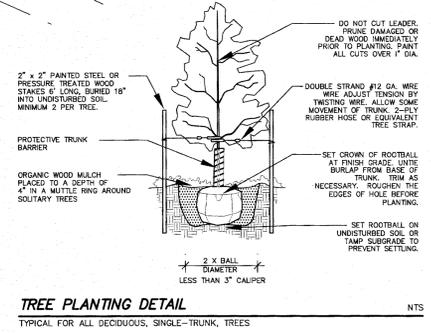
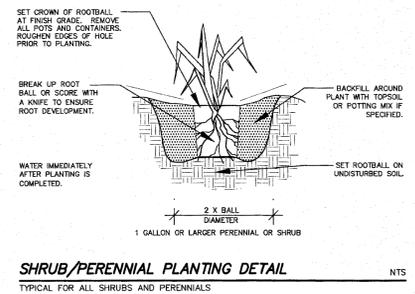
PROVIDED STREET TREES: 7 TREES

REQUIRED PERIMETER PARKING: CONTINUOUS HEDGE

PROVIDED PERIMETER PARKING: CONTINUOUS HEDGE

APPROVED BY FORESTRY
[Signature]
DATE 4/20/15

APPROVED BY PLANNING
[Signature]
DATE 04/20/15



GENERAL LANDSCAPING NOTES FOR ALL SHEETS

ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR THIS LANDSCAPING PROJECT SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS.

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 UTILITIES.

DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

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 WHEREVER NECESSARY, 6" COMMERCIAL GRADE BLACK PLASTIC EDGING TO CONTAIN THE PLANTING BED.

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.

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.

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.

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

TOPSOIL IS STOCKPILED ON SITE AND WILL BE PLACED 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 6" OF TOPSOIL AND SEEDED ACCORDING TO SPECIFICATIONS.

TOPSOIL SHALL BE 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

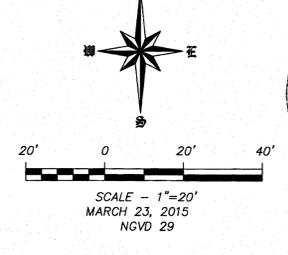
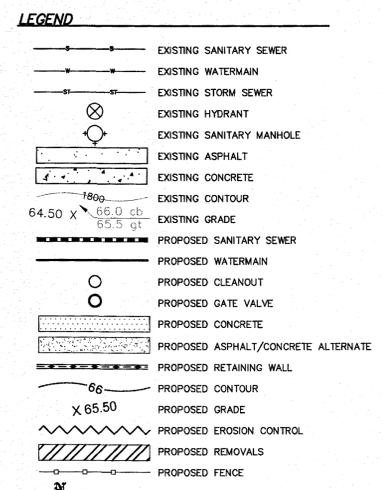
CLEAR AND GRUB SITE BEFORE SEEDING ENSURING THAT THE SITE IS IN A SMOOTH CONDITION WITH NO DEBRIS OR ROCKS LARGER THAN 2" IN DIAMETER.

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.

SEED SHALL BE DRILL SEEDING 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.

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.

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.



SWENSON HAGEN & CO.
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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 agree 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. Underground location can be made by using the "One Call" number 1-800-795-0555.

CALL BEFORE YOU DIG
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1-800-795-0555

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DATE

REVISION

DIMENSION, UTILITY & LANDSCAPING PLAN
LOT 1B BLOCK 1
TRILLIUM 4TH ADDITION
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Surveying
Engineering
Land Planning
Civil Engineering
Landscape & Site Design
Construction Management

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FILE DESC:
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SURVEY FILE:

SHEET C2.0