

PLANT PALETTE

SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QTY.
AM	AMUR MAPLE	Acer glabrum	1 1/2" Cal.	11
BO	BUR OAK	Quercus macrocarpa	2" Cal.	9
SS	SPRING SNOW CRABAPPLE	Malus 'Spring Snow'	1 1/2" Cal.	4
TC	THUNDERCHILD CRABAPPLE	Malus 'Thunderchild'	1 1/2" Cal.	4
AC	ALPINE CURRANT	Ribes alpinum	2 Gallon	64
MC	MAGIC CARPET SPIREA	Spiraea x bumalda 'Magic Carpet'	2 Gallon	36
DL	STELLA D'ORO DAYLILY	Hemerocallis 'Stella de Oro'	1 Gal.	10
GF	GAUFEATHER	Liatris pycnostachya	1 Gallon	14
KF	KARL FOOKSTER GRASS	Calamagrostis x acutiflora	1 Gallon	6

LANDSCAPING NOTES

- 1. DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. ALL LANDSCAPE PLANTINGS ARE TO BE WATERED BY THE LANDSCAPE CONTRACTOR THE SAME DAY THAT THE PLANTING OCCURS.
- 3. WHERE NECESSARY ALL PLANTING BEDS WILL BE INSTALLED WITH 1" CRUSHED ROCK MULCH, 6" COMMERCIAL GRADE LANDSCAPE EDGING, AND LANDSCAPE FABRIC MANUFACTURED SPECIFICALLY FOR PLANTING BED UNDERLAYMENT.
- 4. ORGANIC WOOD MULCH SHALL BE PLACED IN A MOTTLE RING AROUND ALL SOLITARY TREES THAT CONFORMS TO THE DETAIL PROVIDED FOR TREE PLANTINGS.
- 5. TREES PLANTED IN DESIGNATED PLANTING BEDS SHALL BE INSTALLED WITH ROCK MULCH MATCHING THE ROCK WITHIN THE PLANTING BED.
- 6. CONTRACTOR SHALL PROVIDE WRITTEN WARRANTIES CONFIRMING THE FOLLOWING:
 - A. FURNISHED SHRUBS GUARANTEED TO LIVE AND REMAIN STRONG, VIGOROUS, AND HEALTHY CONDITION FOR 1 YEAR MINIMUM FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETE.
 - B. TREES GUARANTEED TO LIVE AND REMAIN IN STRONG, VIGOROUS, AND HEALTHY CONDITION FOR ONE YEAR FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETE.
- 7. ALL PORTIONS OF THE SITE NOT RECEIVING OTHER IMPROVEMENTS SHALL BE SEEDED WITH CLASS II SEED (SUNNY) AS PER CITY OF BISMARCK SPECIFICATIONS. ALL SEEDED AREAS SHALL BE HYDRO MULCHED USING A WOOD CELLULOSE FIBER MULCH THAT CONFORMS TO THE CITY OF BISMARCK SPECIFICATIONS.

SANITARY SEWER

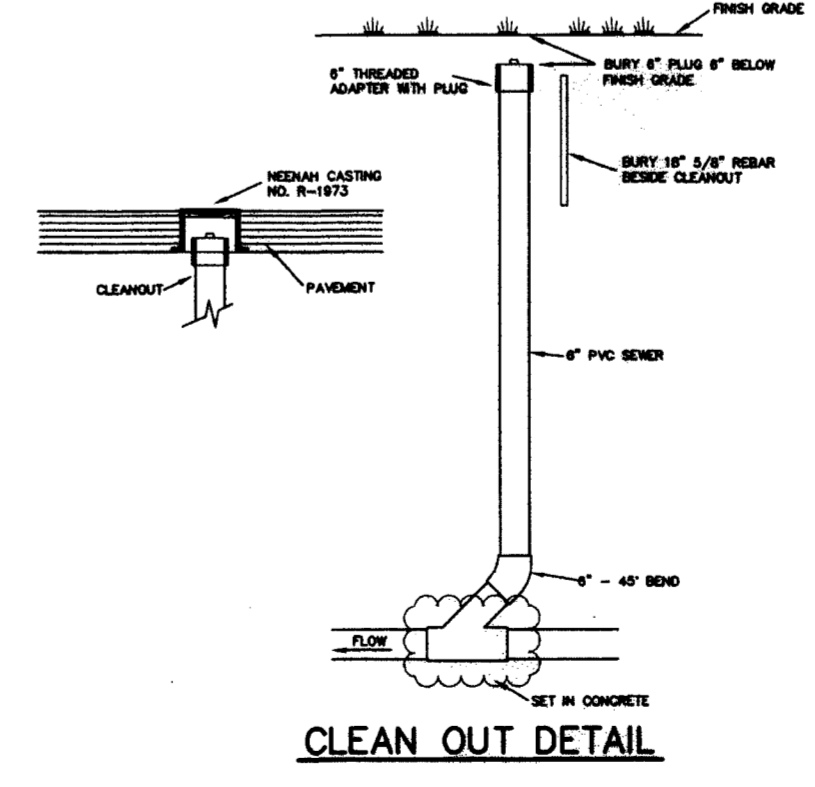
- 1. MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS. ALL BACKFILL SHALL BE 95% OF STANDARD PROCTOR AT RECOMMENDED MOISTURE CONTENT. TESTING IS CONSIDERED INCIDENTAL.
- 2. CONNECT TO EXISTING SANITARY SEWER STUB AND INSTALL 39.00 LF 4" SANITARY SEWER AT MINIMUM GRADE OF 1.04%. INSTALL 4" CLEANOUT, 10.00 LF 4" SANITARY SEWER, AND TEMPORARY CAP; INV. 33.20.
- 3. CONNECT TO EXISTING SANITARY SEWER MAIN WITH 4" INSERTA TEE, INSTALL 41.06 LF 4" SANITARY SEWER AT MINIMUM GRADE OF 1.04%. INSTALL 4" CLEANOUT, 5.00 LF 4" SANITARY SEWER, AND TEMPORARY CAP; INV. 32.20.
- 4. COORDINATE WITH MECHANICAL CONTRACTOR FOR CONNECTION INTO BUILDING.

WATERMAIN

- 1. 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. ALL WATERMAIN SECTIONS SHALL HAVE A MINIMUM 7.5 FEET OF COVER.
- 2. CONNECT TO EXISTING 8" WATERMAIN AND INSTALL 112.59 LF 6" WATERMAIN AND 6" TEE; INV. 28.00.
- 3. INSTALL 93.09 LF 6" WATERMAIN AND 45" BEND; INV. 29.00.
- 4. INSTALL 22.21 LF 6" WATERMAIN AND TEMPORARY CAP; INV. 30.20. APPROXIMATELY 5.00 LF FROM BUILDING INSTALL 6" X 2" SADDLE AND VALVE, 1.00 LF OF 2" WATER SERVICE, 90° BEND, AND 5.00 LF 2" WATER SERVICE AND CAP; INV. 30.20. BOTH 6" AND 2" WATER SERVICES MAY BE IN THE SAME TRENCH.
- 5. INSTALL 35.47 LF 6" WATERMAIN AND TEMPORARY CAP; INV. 31.20. APPROXIMATELY 5.00 LF FROM BUILDING INSTALL 6" X 2" SADDLE AND VALVE, 1.00 LF OF 2" WATER SERVICE, 90° BEND, AND 5.00 LF 2" WATER SERVICE AND CAP; INV. 30.20. BOTH 6" AND 2" WATER SERVICES MAY BE IN THE SAME TRENCH.
- 6. COORDINATE WITH MECHANICAL CONTRACTOR FOR CONNECTION INTO BUILDING.

STORM SEWER

- 1. MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THE CITY OF BISMARCK SPECIFICATIONS. BACKFILL SHALL BE CLASS 'A' UNLESS OTHERWISE NOTED.
- 2. BREAK INTO EXISTING INLET AND INSTALL 23.53 LF 15" STORM SEWER AT 0.2550% AND 45" BEND; INV. 32.30.
- 3. INSTALL 111.90 LF 15" STORM SEWER AT 0.2502% AND INSTALL 30" MANHOLE WITH NEENAH R-1733 CASTING WITH SOLID COVER; INV. E. 32.69; INV. NW. 32.79; RIM 37.25.
- 4. INSTALL 99.48 LF 15" STORM SEWER AT 0.2513% AND 30" INLET WITH NEENAH R-1733 CASTING WITH TYPE C GRATE; INV. 32.94; RIM 35.50.

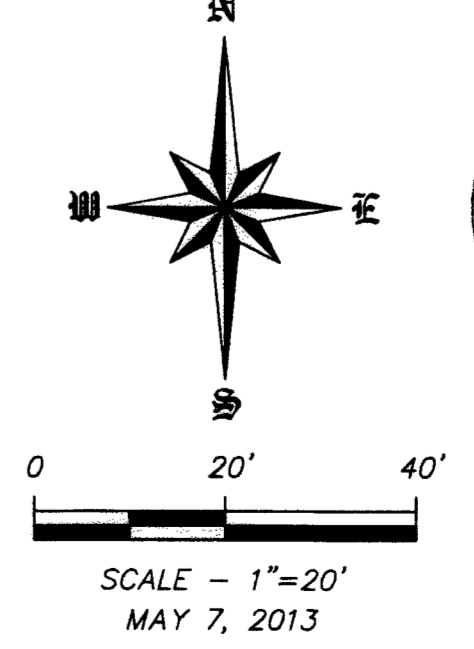


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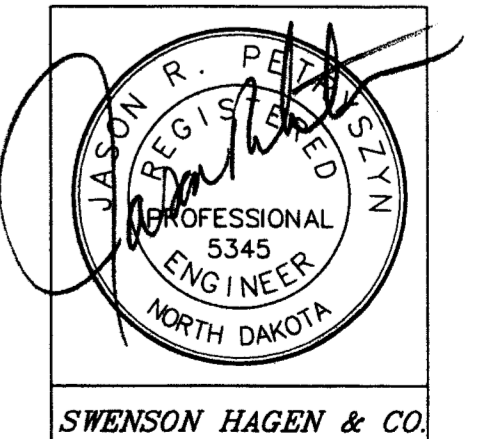
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LEGEND

- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- CONCRETE
- ASPHALT



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 UTILITIES UNDERGROUND LOCATION SERVICE
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REVISION
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DATE: 06/26/13

UTILITY & LANDSCAPE PLAN
 LOTS 1-12, 15-16, 17-22, & ALLEY,
 BLOCK 59, O.P. ADDITION
 BISMARCK, NORTH DAKOTA

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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 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.

UTILITY NOTE
 The locations of existing underground utilities are shown in an approximate way 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 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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