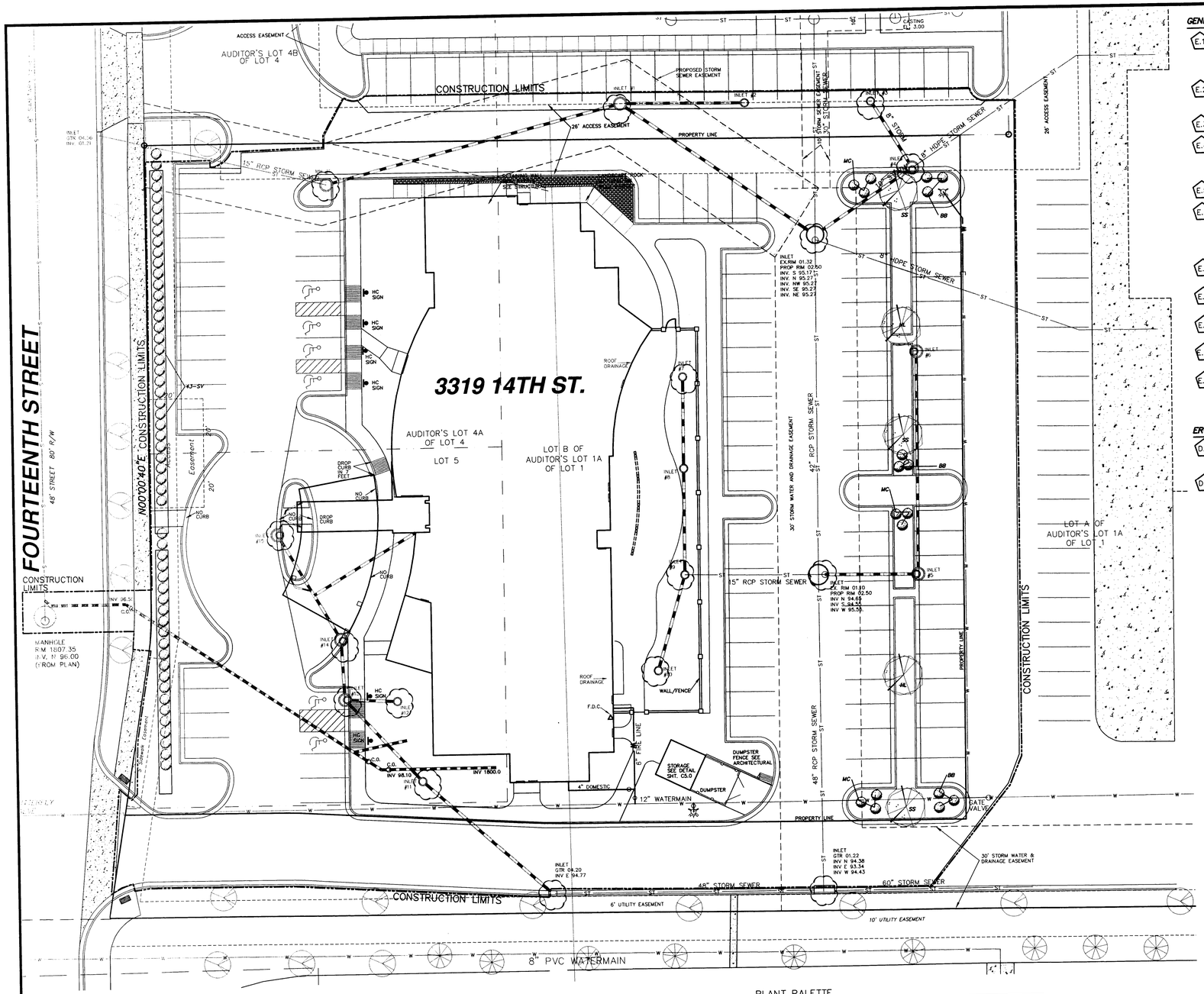


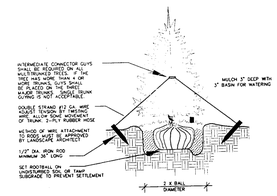
PLANT PALETTE

SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QNTY.
BB	CRIMSON PYGMY BARBERRY	*Berberis thunbergii 'Crimson Pygmy'*	2 Gallon	9
HL	HONEY LOCUST	*Gleditsia triacanthos*	1 1/2" Cal.	2
MC	MAGIC CARPET SPIREA	*Spiraea Japonica 'Magic Carpet'*	2 Gallon	9
SS	SPRING SNOW CRABAPPLE	*Malus 'Spring Snow'*	1 1/2" Cal.	3
SV	SAWW JUNIPER	*Juniperus sabina*	2 Gallon	43

* THE QUANTITIES PROVIDED IN THIS TABLE ARE FOR CONVENIENCE ONLY. PLAN QUANTITIES ARE TO BE USED FOR BIDDING. IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT IF DIFFERENCES BETWEEN PLAN AND TABLE QUANTITIES EXIST.

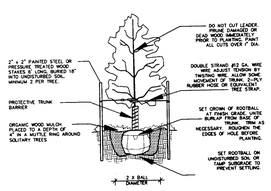
NOTE

LANDSCAPING SHOWN ON THIS SHEET ARE THE MINIMUM REQUIREMENTS NEEDED TO MEET CITY REQUIREMENTS. OWNER MAY ADD TO AND SUPPLEMENT ADDITIONAL LANDSCAPING BUT WHAT IS SHOWN ON THIS SHEET MUST BE MAINTAINED UNLESS A REQUEST TO MODIFY IS SUBMITTED TO THE CITY FORESTER. OWNER TO DECIDE WHICH AREAS ARE SODDED OR SEEDED OR ADDITIONAL LANDSCAPING IS ADDED.



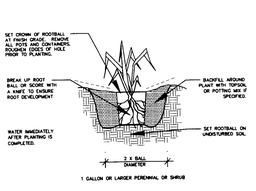
EVERGREEN PLANTING DETAIL NTS

TYPICAL FOR ALL MULTI-TRUNKED & EVERGREEN TREES



TREE PLANTING DETAIL NTS

TYPICAL FOR ALL DECIDUOUS, SINGLE-TRUNK TREES



1 GALLON OR LARGER PERENNIAL OR SHRUB

SHRUB/PERENNIAL PLANTING DETAIL NTS

TYPICAL FOR ALL SHRUBS AND PERENNIALS

GENERAL EROSION CONTROL NOTES FOR ALL SHEETS:

- E.1 AN N.O.I. AND SWPPP WILL NEED TO BE PREPARED FOR THIS PROJECT BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL SIGN THE DOCUMENTATION AND SUBMIT TO NORTH DAKOTA HEALTH DEPARTMENT. CONTRACTOR SHALL NOT START THE PROJECT UNTIL RECEIVING AN APPROVAL LETTER FROM THE NORTH DAKOTA HEALTH DEPARTMENT.
- E.2 CONTRACTOR SHALL IMPLEMENT APPROPRIATE EROSION CONTROL BEFORE BEGINNING ANY LAND DISTURBING ACTIVITIES AS DESIGNED. NOTE: EROSION CONTROL ITEMS SHOWN NEED TO BE IMPLEMENTED AT APPROPRIATE STAGES OF CONSTRUCTION ONLY.
- E.3 CONTRACTOR SHALL CONTROL DUST BLOWING THROUGHOUT PROJECT.
- E.4 CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS THAT ARE NOT GOING TO BE DISTURBED FOR 60 DAYS. SEEDING SHALL CONSIST OF CLASS III SEED, AND MULCH SHALL BE IN ACCORDANCE WITH CITY OF BISMARCK SPECIFICATIONS SECTION 1200.
- E.5 CONTRACTOR SHALL HAVE A COPY OF THE SWPPP AND EROSION CONTROL PLAN ON-SITE AT ALL TIMES.
- E.6 WEEKLY (PLUS WITHIN 24 HOURS OF A STORM WATER EVENT) INSPECTIONS OF THE CONSTRUCTION SITE WILL BE PERFORMED BY PERSONNEL FAMILIAR WITH ALL ASPECTS OF THE SWPPP AND THE IMPLEMENTED CONTROL PRACTICES. INSPECTIONS WILL INCLUDE THE REVIEW OF ALL DISTURBED AREAS, STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES, MATERIAL STORAGE AREAS AND VEHICULAR ACCESS POINTS.
- E.7 INSPECTIONS WILL BE PERFORMED AT LEAST ONCE EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM EVENT GREATER THAN 0.5 INCHES OF RAIN WITHIN A 24 HOUR PERIOD.
- E.8 EROSION CONTROL FOR PROJECT DESIGNATES A MINIMUM EFFORT TO CONTROL AND CONTAIN EROSION SEDIMENTS. CONTRACTOR SHALL USE DUE DILIGENCE TO CONTROL EROSION.
- E.9 SEDIMENT TRACKING ONTO ADJACENT STREETS WILL BE PROHIBITED. STREETS SHALL BE CLEANED WITHIN 48 HOURS IF SEDIMENT TRACKING OCCURS.
- E.10 ONCE ALL DISTURBED AREAS HAVE BEEN SEEDED AND MULCHED AND THE SITE DEMONSTRATES A MINIMUM OF 70% VEGETATIVE GROWTH, EROSION CONTROL MEASURES SHALL BE REMOVED.
- E.11 CONCRETE WASHOUT AREAS WILL BE INDICATED BY A SIGN. WASHOUT AREAS WILL CONSIST OF A HOLE IN THE GROUND A MINIMUM OF 1.5 FEET DEEP. CONCRETE WILL BE ROUTINELY REMOVED AND DISPOSED OF OFF-SITE. WASHOUT AREAS SHALL NOT BE LOCATED IN A CONVEYANCE WATERWAY. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF CONCRETE WASHOUT AREAS AT THE END OF THE PROJECT.

EROSION CONTROL DURING CONSTRUCTION PROCESS:

- D.1 AS AREAS ARE COMPLETED WITH EARTHWORK GRADING, UTILITY INSTALLATION, AND CURB & GUTTER CONSTRUCTION, CONTRACTOR SHALL CONTINUALLY MONITOR AND MAINTAIN EROSION CONTROL DEVICES.
- D.2 INSTALL STRAW WATTLES AROUND INLETS AFTER STORM SEWER INSTALLATION. INSTALL WEIGHTED FIBER ROLLS AROUND INLETS AFTER CURB & GUTTER INSTALLATION. CONTRACTOR SHALL PROVIDE & INSTALL INLET FILTERS AS MANUFACTURED BY "ADS INC.", FLEXSTORM INLET FILTERS. CONTRACTOR IS RESPONSIBLE TO MONITOR AND CLEAN INLET FILTERS AS NEEDED. THIS IS CONSIDERED INCIDENTAL TO SAID EROSION CONTROL BID ITEMS.

DENOTES STRAW WATTLE

APPROVED BY PLANNING

PLANNER 05-16-13
TITLE DATE

APPROVED BY FORESTRY

CITY FORESTER 5-16-13
TITLE DATE

TOPSOIL NOTES

- T1 ALL PORTIONS OF THE SITE NOT RECEIVING CONCRETE, CURB & GUTTER OR OTHER IMPROVEMENTS SHALL BE COVERED WITH A MINIMUM OF 6" OF TOPSOIL AND SODDED ACCORDING TO SPECIFICATIONS. THERE IS NO TOPSOIL AVAILABLE ON SITE. AMOUNT OF TOPSOIL NEEDED ALONG THE WEST EDGE OF THE PROPERTY WILL DEPEND ON THE LEVEL OF DISTURBANCE THAT THE GENERAL CONTRACTOR CREATES. COORDINATE AS NECESSARY.
- T2 ANY IMPORTED TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE, SANDY-LOAM TOPSOIL. IT SHALL BE FREE FROM SUBSOIL, NOXIOUS WEEDS, STONES, LIME, CEMENT, ASHES, SLAG, OR OTHER DELETERIOUS MATTER.
- T3 TOPSOIL SHALL BE PLACED AND SODDED 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.

UTILITY NOTES

- U1 THERE ARE OTHER UTILITIES ON THIS SITE THAT WERE NOT DEPICTED FOR GRAPHIC CLARITY. REFER TO ALL OTHER CIVIL SHEETS FOR LOCATIONS AND DEPTHS (WHERE AVAILABLE) OF THESE UTILITIES. CONTACT NORTH DAKOTA ONE CALL BEFORE COMMENCING WORK ON THIS SITE.

SEEDING NOTES

- S1 ALL PORTIONS OF THE SITE THAT ARE NOT SODDED OR RECEIVING OTHER IMPROVEMENTS SHALL BE SEEDED. SEEDING SHALL CONFORM TO THE CITY OF BISMARCK'S SPECIFICATIONS FOR CLASS II SEEDING.

  ALL PORTIONS OF THE SITE THAT ARE TO BE SEEDED SHALL BE HYDROMULCHED. HYDROMULCH SHALL BE A WOOD CELLULOSE FIBER THAT CONFORMS TO THE CITY OF BISMARCK'S SPECIFICATIONS FOR MULCHING.

GENERAL LANDSCAPING NOTES FOR ALL SHEETS

- L1 ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR THIS LANDSCAPING PROJECT SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS.
- L2 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.
- L3 DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- L4 ALL PLANTING BEDS SHALL BE INSTALLED WITH 3" OF 1" CRUSHED ROCK MULCH, AND LANDSCAPE FABRIC WITH A MINIMUM WEIGHT OF 4 OZ./SY. SURE-LOC EDGING (3/16"x 4") SHALL BE USED WHEREVER NECESSARY TO CONTAIN THE PLANTING BED. INSTALLATION METHODS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
- L5 ALL LANDSCAPE PLANTINGS ARE TO BE WATERED BY THE LANDSCAPE CONTRACTOR THE SAME DAY THAT THE PLANTING OCCURS. THE OWNER WILL BE RESPONSIBLE FOR PROVIDING WATER FOR THIS TASK.
- L6 LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND CARING FOR ALL PLANT MATERIAL, SOD, AND OTHER LANDSCAPING IMPROVEMENTS UNTIL THE DATE OF FINAL INSPECTION AND APPROVAL.
- L7 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.
- L8 STAKING OF ALL TREES IS REQUIRED. CONTRACTOR SHALL REMOVE ALL STAKES AFTER TREES ARE FULLY ESTABLISHED OR AFTER 3 FULL GROWING SEASONS.
- L9 PRIOR TO FINAL ACCEPTANCE, ALL TREES AND SHRUBS SHALL BE PRUNED TO REMOVE ANY DEAD OR DYING BRANCHES OR FOLIAGE. PRUNING SHALL ALSO BE DONE TO PROVIDE THE BEST POSSIBLE SHAPE FOR THE PLANT.
- L10 CONTRACTOR SHALL PROVIDE WRITTEN WARRANTIES CONFIRMING THE FOLLOWING:

  FURNISHED TREES AND SHRUBS GUARANTEED TO LIVE AND REMAIN STRONG, VIGOROUS, AND HEALTHY CONDITION FOR 365 DAYS MINIMUM FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETED.

LANDSCAPE ORDINANCE NOTES

- S1 94 PARKING STALLS = 18 SHRUBS & 5 TREES PROVIDED (INTERIOR)
  CONTINUOUS HEDGE ROW FOR PARKING SCREENING
  STREET TREES ARE EXISTING
  NO BUFFERYARDS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
LONNIE K. ROMSAAS
P.E. 11983
5/16/13
NORTH DAKOTA
SWENSON HAGEN & CO.

THIS DOCUMENT WAS ORIGINALLY SEALED BY LONNIE K. ROMSAAS, PE, ON 5/16/13 AND THE ORIGINAL DOCUMENT IS STORED AT THE OFFICE OF SWENSON, HAGEN & CO. P.C.

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20' 0 20' 40'
SCALE - 1"=20'
MAY 8, 2013

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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.

SAFETY NOTICE TO CONTRACTOR

In accordance with generally accepted construction practices the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal business hours.

WARRANTY / DISCLAIMER

The designs represented in these plans are in accordance with established practices of civil engineering. However, neither Swenson, Hagen & Co. nor its personnel can or do warranty these plans as constructed except in the specific cases where Swenson, Hagen & Co personnel inspect and control the physical construction on a full time basis

DATE:
REVISION

LANDSCAPE & EROSION CONTROL PLAN
MARRIOTT COURTYARD
BISMARCK, NORTH DAKOTA

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Hydrology
Land Planning
Civil Engineering
Landscape & Site Design
Construction Management

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SHEET C4.0