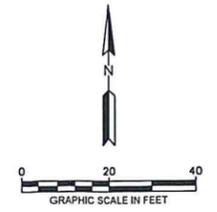
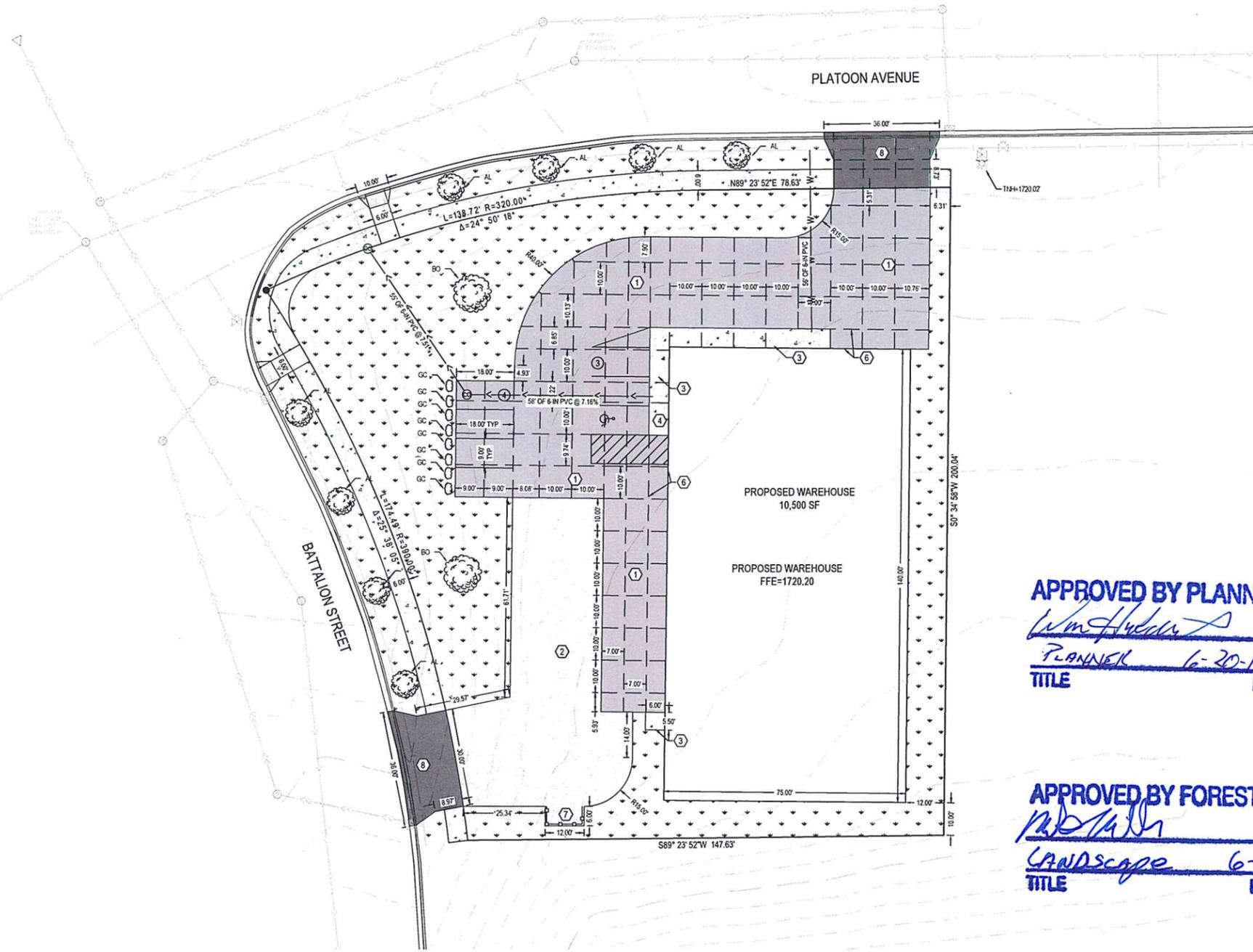


SP 2019-035



SITE LAYOUT AND PAVING PLAN LEGEND

- ① 6-IN FIBER REINFORCED CONCRETE S.D. 2-5 / C40
- ② 6-IN GRAVEL S.D. 2-6 / C40
- ③ 4-IN CONCRETE S.D. 2-7 / C40
- ④ ACCESSIBLE PARKING S.D. 2-1C/40
- ⑤ ACCESSIBLE RAMP S.D. 2-4C/40
- ⑥ #4 @ 18" O.C. DOWELED JOINT - SAW & SEAL
- ⑦ GARBAGE ENCLOSURE S.D. 8-C20
- ⑧ 6-IN FIBER REINFORCED CONCRETE S.D. 2-6 / C40
- ④ PARKING COUNT
- ⑥ 6-IN FIBER REINFORCED CONCRETE
- ⑥ 6-IN FIBER REINFORCED CONCRETE
- ⑥ 6-IN GRAVEL
- ④ 4-IN CONCRETE SIDEWALK

LANDSCAPING PLAN LEGEND

- ⑥ SHRUB S.D. 2-10 / C40
- ⑥ DECIDUOUS TREE 2-11 / C40
- ⑥ CLASS II (SUNNY MIX) GRASS

GENERAL NOTES

- ALL ELEVATIONS SHOWN ARE IN NAVD8 DATUM UNLESS OTHERWISE NOTED.
- THE USE OF "CONTRACTOR" APPLIES TO THE PARTY RESPONSIBLE FOR THE PORTION OF WORK BEING DESCRIBED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. MOUNTAIN PLAINS DOES NOT GUARANTEE THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR IS REQUIRED TO CALL NORTH DAKOTA ONE CALL BY DIALING 811 OR 800-795-0555. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND FEES ASSOCIATED WITH UTILITY LOCATIONS.
- CONTRACTOR SHALL OBTAIN PROPER PERMITS FROM THE CITY OR COUNTY WHEN WORKING WITHIN THE RIGHT-OF-WAY.
- THE COST OF MOBILIZATION IS TO BE INCLUDED IN THE PRICES BID FOR OTHER PROJECT TASKS AND SHALL INCLUDE ALL ITEMS NECESSARY FOR THE CONTRACTOR TO BE PRESENT ON SITE. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: CONTRACT BOND, EQUIPMENT HAULING, ROADWAY TOLLS AND FARES, LOCAL OR STATE GOVERNMENT PERMITS OR FEES, OR ANY OTHER REQUIREMENT STATED IN THE PROJECT SPECIFICATIONS.
- AREAS WITHIN RIGHT-OF-WAY WHICH ARE UTILIZED BY CONSTRUCTION TRAFFIC ARE TO BE SWEEPED PRIOR TO OPENING TO PUBLIC TRAFFIC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ANY DEBRIS LEFT ON ADJACENT PUBLIC ROADWAYS OR RIGHTS-OF-WAY THAT WERE A DIRECT OR INDIRECT RESULT FROM CONSTRUCTION ACTIVITIES OF THIS PROJECT. THE UTILIZATION OF A VACUUM OR PICKUP TYPE SWEEPER IS REQUIRED TO MINIMIZE AIR CONTAMINATION. THE COST FOR PAVEMENT SWEEPING IS TO BE INCLUDED IN THE PRICES BID FOR OTHER PROJECT TASKS.
- THE CONTRACTOR SHALL PROTECT ALL PROPERTY PINS AND MONUMENTS ASSOCIATED WITH THE SUBJECT PROPERTY. PROPERTY PINS OR MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- IN THE EVENT THAT ANY DISCREPANCY BETWEEN THE STANDARD SPECIFICATIONS AND THE BID DOCUMENTS ISSUED BY THE GENERAL CONTRACTOR OR PLANS WHICH HAVE BEEN SIGNED AND SEALED BY THE ISSUING ENGINEER EXISTS, THE PLANS SHALL GOVERN.
- THE STANDARD SPECIFICATIONS FOR THIS PROJECT SHALL BE "CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS IMPROVEMENTS, BISMARCK, NORTH DAKOTA" AS APPROVED AND ISSUED MARCH 2019 BY GABRIEL J. SCHELL. THE STANDARD SPECIFICATIONS CAN BE LOCATED AT: <https://www.bismarcknd.gov/developmentcenter/development/specifications/>. IN THE EVENT A DISCREPANCY EXISTS BETWEEN THE PLANS AND STANDARD SPECIFICATIONS, THE PLANS SHALL SUPERSEDE.

SITE LAYOUT NOTES

- ALL SITE LAYOUT, GRADING, AND STRIPING OF PEDESTRIAN TRAVEL WAYS ARE TO MEET OR EXCEED THE REQUIREMENTS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT OF 1990 (ADA) REGULATIONS AS ADOPTED BY THE ACCESSIBILITY STANDARDS CALLED THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (2010 STANDARDS), WHICH CAN BE FOUND HERE: <http://www.a11y.org/2010ADAStandards/2010ADAStandards.htm>
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ADA REQUIREMENTS AND GUIDELINES ARE MET PRIOR TO PAVEMENT INSTALLATION. IN THE EVENT THAT ADA REQUIREMENTS AND GUIDELINES ARE NOT MET PER THE DESIGN AS PRESENTED IN THE PLANS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY FOR CORRECTIVE ACTION. ONCE PAVEMENT HAS BEEN INSTALLED, THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL GRADING OF THE PROJECT.

PARKING REQUIREMENTS

- PER CITY OF BISMARCK ZONING ORDINANCE 14-23-10 "OFF-STREET PARKING AND LOADING", OFF-STREET PARKING FOR THE SITE IS CALCULATED AS FOLLOWS:
- WAREHOUSE / OFFICE
 - OFFICE & RESTROOM AREA + 500 SF @ 1:250 = 2 PARKING SPACES
 - WAREHOUSE & STORAGE AREA + 10,000 SF @ 1:2,000 = 5 PARKING SPACES
- TOTALS
- 7 REQUIRED TOTAL PARKING SPACES
 - 7 PROVIDED TOTAL PARKING SPACES
 - 6 STANDARD VEHICLE SPACES
 - 1 ADA COMPLIANT VAN ACCESSIBLE PARKING SPACES

PAVING PLAN NOTES

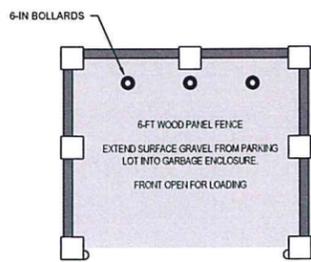
- MATERIALS AND COSTS ASSOCIATED WITH JOINTING AND REINFORCEMENT REQUIRED FOR CONCRETE PAVEMENT AND CURBING SHALL BE INCLUDED IN THE PRICE BID FOR THEIR ASSOCIATED BID ITEMS.
- EXPANSION JOINTS SHALL BE INSTALLED EVERY 100 LF OF CURB AND 50 LF OF SIDEWALK. SEE THE CONCRETE JOINTING PLAN FOR LOCATIONS.
- THE CONTRACTOR SHALL SUBMIT A CONCRETE MIX DESIGN FOR USE IN BOTH STEEL REINFORCED AND NON-REINFORCED CONCRETE PAVEMENT.
- ALL WATERING REQUIRED FOR SUBGRADE AND BASE COURSE TO ACHIEVE OPTIMUM COMPACTION IS TO BE INCLUDED IN THE PRICE BID OF THE RESPECTIVE MATERIAL.
- THE CONTRACTOR SHALL SUBMIT A MIX DESIGN FOR APPROVAL BY THE ENGINEER. MINIMUM REQUIREMENTS FOR THE MIX SHALL BE 4500 PSI 28-DAY COMPRESSIVE STRENGTH, 4-INCH MAXIMUM SLUMP, AND SHALL INCLUDE ENOUGH TYP-STRAND #3 MICROREINFORCER (OR APPROVED EQUAL) WITH A DOSSAGE RATE OF 5-LB PER CUBIC YARD OF CONCRETE.
- PORTLAND CEMENT CONCRETE PAVEMENT WILL MEET CITY STANDARDS. THE CONTRACTOR WILL PROVIDE THIRD-PARTY TESTING SERVICES FOR CONCRETE PAVEMENT, SIDEWALK AND CURB & GUTTER. TESTING SHALL BE PERFORMED FOR EVERY 100 CY OF MATERIAL PLACED. TEST RESULTS SHALL BE PROVIDED TO THE OWNER AND ENGINEER. IN THE EVENT A TEST FAILING TO MEET THE MIX DESIGN AS SUBMITTED BY THE CONTRACTOR, AS WELL AS STANDARD SPECIFICATIONS, THE CONCRETE PLACED AS WELL AS THE IMMEDIATELY SURROUNDING PANELS, SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONCRETE PAVEMENT SHALL CONFORM TO THEIR RESPECTIVE DEPTH DETAILS AS OUTLINED IN THE PLANS AND STANDARD SPECIFICATIONS. ALL COSTS FOR SAW-CUTTING AND HOT-SEALING JOINTS SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE CONCRETE BID ITEM. ALL REINFORCING STEEL SHALL BE DEFORMED, EPOXY COATED GRADE 60 REBAR. IN THE EVENT REBAR-BASKETS ARE UTILIZED, THE BASKET SHALL BE CUT JUST PRIOR TO PLACING CONCRETE IN SUCH A FASHION THAT IT PROVIDES NO STRUCTURAL BENEFIT TO THE CONCRETE.
- TOPSOIL TO BE INSTALLED & PREPARED IN LOCATIONS SHOWN.

LANDSCAPING PLAN NOTES

- THE CONTRACTOR SHALL PROVIDE A ONE-YEAR GUARANTEE OF ALL PLANTS AND MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE ENGINEER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT MATERIALS SHALL ALSO HAVE A ONE-YEAR GUARANTEE COMMENCING UPON PLANTING.
- ALL PLANTS TO BE INSTALLED ARE TO BE NORTHERN-GROWN, HARDY, AND INSTALLED PER STANDARD AN PLANTING PRACTICES.
- USE A MINIMUM 6-IN LOAM PLANTING SOIL OR SHRUBS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO THE INSTALLATION OF PLANTS.
- PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE.
- OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE ONLY AFTER ACCEPTANCE OF THE WORK BY THE ENGINEER.
- PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. TEMPORARILY HEEL-IN MATERIALS IF NECESSARY.
- PLANTING BEDS FOR SHRUBS SHALL HAVE (40Z MIN) WEED BARRIER FABRIC AND 4-IN TO 6-IN OF SHREDED HARDWOOD MULCH.
- SEED MIX SHALL BE CONSIDERED "CLASS II" AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- PRIOR TO SEEDING, A MINIMUM OF 4-INCHES OF TOPSOIL IS TO BE LAID AND SHALL BE FREE OF VEGETATION AND STONES LARGER THAN 1-INCH.
- THE CONTRACTOR SHALL FURNISH THE ENGINEER DUPLICATE SIGNED COPIES OF A STATEMENT BY THE VENDOR CERTIFYING THAT EACH LOT OF SEED HAS BEEN TESTED BY A RECOGNIZED LABORATORY FOR SEED TESTING WITHIN 12 MONTHS OF THE DATE OF DELIVERY.
- DESIGN OF THE IRRIGATION SYSTEM TO BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- SIZES GIVEN FOR TREE AND SHRUB PLANTING ARE MATURE HEIGHT AND SPREAD.
- CONTRACTOR TO COORDINATE IRRIGATION SYSTEM WITH OWNER.

APPROVED BY PLANNING
Wm Hudson
 PLANNER 6-20-19
 TITLE DATE

APPROVED BY FORESTRY
M. D. Hall
 LANDSCAPE 6-20-19
 TITLE DATE



⑧ GARBAGE ENCLOSURE DETAIL
 C2.0 NOT TO SCALE

SITE LAYOUT AND PAVING PLAN QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
1	8-IN FIBER REINFORCED CONCRETE	SY	125
2	6-IN CONCRETE	SY	922
3	6-IN GRAVEL	SY	798
4	4-IN SIDEWALK CONCRETE	SY	290
5	CLASS 5 AGGREGATE BASE COURSE	CY	340
6	12-IN SCARIFY & RECOMPACT SUBGRADE	SY	2010
7	STRIPING & SIGNING	L SUM	1

LANDSCAPING PLAN QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
1	SEEDING CLASS II	SY	1485
2	TREE / SHRUB MULCHING	EA	18
3	DECIDUOUS SHADE TREE	EA	2
4	DECIDUOUS ORNAMENTAL TREE	EA	8
5	SHRUB	EA	8
6	IRRIGATION SYSTEM	LSUM	1

ACCEPTABLE SPECIES

Legend Type	Minimum Size	Common Name	Scientific Name	QTY
Deciduous Shade Tree	Minimum Caliper 1.5" at 6" above root collar	Bur Oak (BO)	<i>Quercus macrocarpa</i>	2
		Quaking Aspen (QA)	<i>Populus tremuloides</i>	-
		Kentucky Coffeetree (Male) (KC)	<i>Gymnocladus dioica</i>	-
Deciduous Ornamental Tree	Minimum Caliper 1" at 6" above root collar	American Linden (AL)	<i>Tilia americana</i>	8
		Flowering Crabapple (FC)	<i>Malus hybrids</i>	-
		Arnold Hawthorn (AH)	<i>Crataegus amokiana</i>	-
		Japanese Liliac (JL)	<i>Syringa reticulata</i>	-
Lg. Coniferous Tree	Minimum height of 4' above grade	Amur Maple (AM)	<i>Acer ginnala</i>	-
		Ponderosa Pine (PP)	<i>Pinus ponderosa</i>	-
Sm. Coniferous Tree	Minimum height of 2' above grade	Black Hills Spruce (BS)	<i>Picea glauca 'Densata'</i>	-
		Medora Juniper (MJ)	<i>Juniperus scopulorum 'Medora'</i>	-
Shrub	Minimum container size of 2 gallons	Redosier Dogwood (RD)	<i>Cornus sericea</i>	-
		Common Liliac (CL)	<i>Syringa vulgaris</i>	-
		Golden / Clove Currant (GC)	<i>Ribes odoratum</i>	8
		Vanhoutte Spirea (VS)	<i>Spiraea x vanhouttei</i>	-

PROPOSED WAREHOUSE FACILITY

LSI, INC.
 1721 BATTALION STREET
 BISMARCK, ND 58501



DATE	June 14, 2019
DRAWN BY	JME
APPROVED BY	BJZ
PROJECT NO.	002722
SHEET NO.	C2.0
SHEET TITLE	SITE LAYOUT, PAVING & LANDSCAPING PLAN

NO.	DATE	DESCRIPTION
1	04/20/19	FINAL PLAN SET
2	04/26/19	ADD WEST APPROACH - OWNER REQ.
3	05/02/19	ADD GARBAGE ENCLOSURE & MOD. STREET TREES - CITY REQUESTS
4	06/11/2019	CITY REQUESTED MODIFICATIONS
5	06/13/2019	RELOCATE BUILDING

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