



PLANNING
CIVIL ENGINEERING
LAND SURVEYING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL

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Certification

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

BOERS

Project No.	22246.0AA
Drawn By	JDL
Checked By	SRT
Date	03/17/2023

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13.



SEE STORMWATER POLLUTION PREVENTION PLAN FOR SOIL STABILIZATION INFORMATION.

SITE BENCHMARK: TOP NUT OF HYDRANT LOCATED AT THE
SOUTHEAST CORNER OF SUBJECT PROPERTY. ELEVATION = 945.1
(NGVD 29)



WARNING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

EXISTING	PROPOSED	EXISTING	PROPOSED
CATCH BASIN	CATCH BASIN	DRAINAGE	DRAINAGE
STORM MANHOLE	STORM MANHOLE	SANITARY SEWER	SANITARY SEWER
FLARED END SECTION	FLARED END SECTION	WATER SERVICE	WATER SERVICE
SANITARY MANHOLE	SANITARY MANHOLE	UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC
GATE VALVE	GATE VALVE	UNDERGROUND FIBER OPTIC	UNDERGROUND FIBER OPTIC
POST INDICATOR VALVE	POST INDICATOR VALVE	UNDERGROUND GAS	UNDERGROUND GAS
WATER MANHOLE / WELL	WATER MANHOLE / WELL	OVERHEAD UTILITY	OVERHEAD UTILITY
LIGHT POLE	LIGHT POLE	CHAIN LINK FENCE	CHAIN LINK FENCE
ELECTRIC METER	ELECTRIC METER	CONCRETE CURB	CONCRETE CURB
TELEPHONE PEDESTAL	TELEPHONE PEDESTAL	RETAINING WALL	RETAINING WALL
SIGN	SIGN	CONCRETE	CONCRETE
BENCHMARK	BENCHMARK	NO PARKING	NO PARKING
SOIL BORING	SOIL BORING	BUILDING	BUILDING
PARKING STALL COUNT	PARKING STALL COUNT	SPOT ELEVATION	SPOT ELEVATION
ACCESSIBLE PARKING STALL	ACCESSIBLE PARKING STALL	DIRECTION OF FLOW	DIRECTION OF FLOW
STORM WATER INLET	STORM WATER INLET		
PARKING SETBACK LINE	PARKING SETBACK LINE		
BUILDING SETBACK LINE	BUILDING SETBACK LINE		

SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, CUTTERED LOW FEET, OR FACE OF BUILDING, OR POINT OF PAVEMENT SLOPE. SPOTS DO NOT REFLECT SUMPED ELEVATIONS. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SLUMPED 0.10 FEET. RM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF PREMIUM TOP SOIL AND SEED/MULCH OR SOIL. THESE AREAS SHALL BE WATER/DOMINANT BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED. VARIETY WITH LANDSCAPE PLAN.

4. FOR SITE GRADING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL). "TW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSE).
5. REFER TO GEOTECHNICAL EVALUATION REPORT B22072780, DATED SEPTEMBER 07TH, 2022 AS PREPARED BY BRAUN INTEREC. FOR AN EXISTING SUBS. REFACE SITE CONDITION ANALYSIS AND CONSTRUCTION RECOMMENDATIONS INCLUDING REINFORCEMENT.
- 5.A. REUSE OF ON-SITE SOILS
- 5.B. GROUNDWATER AND RECOMMENDATIONS FOR EXCAVATION Dewatering, Groundwater Monitoring, and Groundwater Remediation.
- 5.C. EXCAVATION AND BACKFILL
- 5.D. PAVEMENTS AND EXTERIOR SANS.
- 5.E. TRENCH EXCAVATION AND BACKFILL
- 5.F. EXISTING UTILITIES AND REPORTS.
- 5.G. EROSION PROTECTION.
6. STREETS MUST BE CLEARED AND SWEEP WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS, OR AS DIRECTED BY CITY. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
7. DUST MUST BE ADEQUATELY CONTROLLED.
8. SEE SUPPLY FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
9. SEE UTILITY PLAN FOR WATER, STORM AND SANITARY SEWER INFORMATION.
10. SEE SITE PLAN FOR CURB AND BITUMINOUS TAPEL LOCATIONS.
11. THE CONTRACTOR ALONG WITH THE OWNER SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM GOVERNING AUTHORITIES, INCLUDING ANY CITY PERMITS AND THE NPDES PERMIT FROM THE MPCA.
12. INSTALL EROSION CONTROL AND TRAFF PROTECTION MEASURES BEFORE BEGINNING SITE GRADING ACTIVITIES. SOME EROSION CONTROLS SUCH AS BALE CHECKS AND TEMPORARY SILT PONDS MAY BE INSTALLED AS GRADING OCCURS IN SPECIFIC AREAS. MAINTAIN EROSION CONTROLS THROUGHOUT THE GRADING PROCESS AND REMOVE WHEN TURF HAS BEEN ESTABLISHED.
13. THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE MPCA NPDES PERMIT. THE AREA TO BE DISTURBED SHALL BE MINIMIZED AND TURF SHALL BE ESTABLISHED WITHIN THE TIME REQUIRED.
14. GRADES SHOWN ARE FINISHED GRADES.
15. FINAL GRADING TOLERANCES ARE +0.01 FEET TO FINISH GRADES.
16. UNDER PAVEMENTS COMPACT THE UPPER 3 FEET OF SUBGRADE TO 100% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT AND 95% STANDARD PROCTOR DENSITY BLOW THE UPPER 3 FEET OF SUBGRADE. OUTSIDE PAVEMENT AREA CONTRACT EMBANKMENTS TO 95% STANDARD PROCTOR DENSITY.
17. STRUCTURAL RETAINING WALL, FENCING AND HANDRAIL DESIGN BY OTHERS.