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Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2021-082 Considered at Board of Managers Meeting: February 2, 2022 Received complete: January 6, 2022 Applicant: HJ Development, Chris Moe Representative: CWP West Corp., Trevor Buhl Mister Car Wash - The project proposes the redevelopment of an existing bank site into a Project: 5,400 SF conveyor-type stand-alone car wash with associated parking, vacuum equipment, lighting, underground utilities, and landscaping. The project includes an underground stormwater infiltration proprietary device to provide volume control, water quality, and rate control. Location: 17600 MN-7, Minnetonka, Minnesota 55345 **Reviewer:** Leslie DellAngelo, PE; and Scott Sobiech, PE; Barr Engineering Co.

Proposed Board Action

Manager ______ moved and Manager ______ seconded adoption of the following resolutions based on the permit report that follows and the presentation of the matter at the February 2, 2022 meeting of the managers:

Resolved that the application for Permit 2021-082 is approved, subject to the conditions and stipulations set forth in the Recommendations section of the attached report;

Resolved that on determination by the RPBCWD administrator that the conditions of approval of the permit have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver Permit 2021-082 to the applicant on behalf of RPBCWD.

Upon vote, the resolutions were adopted, _____ [VOTE TALLY].

Applicable Rule Conformance Summary

Rule		lssue	Conforms to RBPCWD Rules?	Comments
С	Erosion Contro	l Plan	See comment.	See rule-specific permit condition C1 related to name of individual responsible for on-site erosion control.
J	Stormwater	Rate	Yes	
	Management	Volume	See Comment	See stipulation 4 related to verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate
		Water Quality	Yes	
		Low Floor Elev.	Yes	
		Maintenance	See Comment	See rule-specific permit condition J1 related to recordation of stormwater facility maintenance declaration.
		Chloride Management	See Comment	See stipulation 3 related to providing a chloride management plan prior to project close-out.
		Wetland Protection	Yes	
L	Permit Fee Dep	oosit	Yes	\$3,000 deposit fee received January 6, 2022.
М	Financial Assur	ance	See Comment	The financial assurance is calculated at \$140,938.

Background

The project proposes the redevelopment of an existing bank into a 5,400 SF conveyor-type stand-alone car wash with associated parking, vacuum equipment, lighting, underground utilities, and landscaping. The project includes an underground stormwater infiltration system to provide volume control, water quality, and rate control. The project site information is summarized in Table 1.

While there are no on-site or adjacent Wetland Conservation Act (WCA) protected wetlands for which wetland buffers would be required, the treated runoff leaving the site from the underground infiltration system is conveyed via storm sewer directly to an off-site protected wetland.

Table	1. Pı	roject	site	information	
-	-				

Site Information	Project Area
Total Site Area (acres)	0.85
Existing Site Impervious Area (acres)	0.71
Disturbed Impervious Area (acres)	0.71 (100%)
Post Construction Site Impervious (acres)	0.73
Addition (increase) in Site Impervious Area (acres)	0.02
Total Disturbed Area (acres)	0.85

Exhibits:

- Permit application received on November 1, 2021 with associated permit fee received on January 6, 2022. (Incomplete notice was sent on November 19, 2021; materials submitted to complete application on January 6, 2022)
- 2. Stormwater Management Report dated November 1, 2021 (revised December 20, 2021)
- 3. Project Plan Set (10 sheets) dated November 1, 2021 (revised December 20, 2021, 14 Sheets)
- 4. Review Comments dated November 19, 2021
- 5. Review Comments Applicant Response Letter dated December 14, 2021
- 6. Existing and Proposed HydroCAD Models received December 21, 2021
- 7. MIDS Calculator received December 21, 2021
- 8. Underground Infiltration System Detailed Drawings (8 sheets) received December 21, 2021 (revised January 21, 2022)
- 9. Geotechnical Evaluation Report dated October 15, 2021
- 10. Cost estimate received January 21, 2022

Rule Specific Permit Conditions

Rule C: Erosion Prevention and Sediment Control

Because the project will involve 0.85 acres of land-disturbing activities, the project must conform to the erosion prevention and sediment control requirements established in Rule C.

The erosion control plan prepared by Kimley-Horn and Associates, Inc. includes installation of perimeter control (silt fence or sediment control logs), a stabilized rock construction entrance, inlet protection, erosion control blanket, daily inspection, staging areas, placement of a minimum of 6 inches of topsoil (at 5% organic matter), decompaction of areas compacted during construction, and retention of native topsoil onsite to the greatest extent possible. To conform to RPBCWD Rule C requirements, the following revisions are needed:

C1. The Applicant must provide the name, address and phone number of the individual who will remain liable to the District for performance under this rule and maintenance of erosion and sedimentcontrol measures from the time the permitted activities commence until vegetative cover is established.

Rule J: Stormwater Management

Because the project will involve 0.85 acres of land-disturbing activity (i.e., more than 5,000 square feet), the project must meet the criteria of RPBCWD's Stormwater Management rule (Rule J, Subsection 2.1). The criteria listed in Subsection 3.1 will apply to the entire site because the project will disturb more than 50% of the existing impervious surface on the parcel (Rule J, Subsection 2.3).

The applicant is proposing construction of an underground infiltration system to provide the rate control, volume abstraction and water quality management. Pretreatment for runoff entering the underground infiltration system is being provided by catchbasin/manholes with sumps and SAFL Baffles.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The applicant used a HydroCAD hydrologic model to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the site are summarized in Table 2 below. The proposed project is in conformance with RPBCWD Rule J, Subsection 3.1.a.

Modeled Discharge Location	2-Y Dischar		10-Y Dischar			Year ge (cfs)		Day nelt (cfs)
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
Co Rd 101 ROW	1.8	<0.1	2.9	0.1	5.1	0.1	0.2	<0.1
State Hwy 7 ROW	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Western Property	0.1	<0.1	0.1	<0.1	0.3	0.1	<0.1	<0.1
Low Area	1.0	0.1	1.6	0.7	3.0	2.9	0.1	0.1

Table 2. Existing and Proposed Peak Runoff Rates

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from the regulated impervious surface of the site. An abstraction volume of 2,915 cubic feet is required from the 0.73 acres (31,799 square feet) of regulated impervious area. The proposed underground infiltration system provides 4,007 cubic feet of abstraction volume. Pretreatment for runoff entering the underground infiltration system is being provided by catchbasin/manholes with sumps and SAFL Baffles to conform to Rule J, Subsection 3.1.b.1.

The three soil borings (SB-1, SB-2, and SB-6) were performed by American Engineering Testing, Inc. under or adjacent to the proposed underground infiltration system show that soils in the project area are primarily silty sand and poorly graded sand. Groundwater was not observed at the soil borings under the proposed underground infiltration system (SB-6). Groundwater was observed at the next nearest soil boring (SB-1) at approximately 18 feet below grade, which is about 5 feet below the proposed bottom of the underground infiltration system. The subsurface investigation information summarized Table 3 shows that groundwater is at least 3 feet below the bottom of the proposed underground infiltration system (Rule J, Subsection 3.1.b.2.a).

Proposed BMP	Nearest Subsurface Investigation	Boring is within footprint?	Groundwater Elevation (feet)	BMP Bottom Elevation (feet)	Separation (feet)
Underground Infiltration System	SB-6	Yes	No groundwater observed at boring bottom (approx. el 885)	890.75	5.75
Underground Infiltration System	SB-1	No	Groundwater observed at el 885.11	890.75	5.6

Table 3. Groundwater Separation Analysis

The engineer concurs with the applicant's design infiltration rates of 0.45 inches per hour for silty sand and poorly graded sand based on the guidelines provided in the Mn Stormwater Manual. Based on the design infiltration rate, the engineer concurs that the basins will draw down within 48 hours (Rule J, subsection 3.1b.3). Because of the existing bank drive-thru and canopy are at the location of proposed underground infiltration system, subsurface investigation and infiltration testing was not performed at that BMP location. Per Rule J, Subsection 3.1.b.2.c measured infiltration capacity of the soils at the bottom of the infiltration systems must be provided. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate. If infiltration capacity is less than needed to conform with the volume abstraction requirement in subsection 3.1b or there is inadequate separation to groundwater, design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).

The table below summarizes the volume abstraction for the site based on the design infiltration capacity of the underground infiltration system. With the conditions noted above regarding verification of subsurface conditions, the engineer concurs with the submitted information and finds that the proposed project will conform with Rule J, Subsection 3.1.b.

Required	Required Abstraction	Provided Abstraction	Provided Abstraction
Abstraction Depth	Volume	Depth	Volume
(inches)	(cubic feet)	(inches)	(cubic feet)
1.1	2,915	1.51	4,007

Table 4. Volume Abstraction Summary

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant to provide volume abstraction in accordance with 3.1b or least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS) from site runoff, and no net increase in TSS or TP loading leaving the site from existing conditions. Because the underground infiltration system proposed by the applicant provides more volume abstraction than is required by 3.1b and the engineer concurs with the modeling, the engineer finds that the proposed project is in conformance with Rule J, Subsection 3.1.c.

Low floor Elevation

All new buildings must be constructed such that the lowest floor is at least two feet above the 100-year high-water elevation or one foot above the emergency overflow of a stormwater-management facility according to Rule J, Subsection 3.6a. In addition, a stormwater-management facility must be constructed at an elevation that ensures that no adjacent habitable building will be brought into noncompliance with this requirement according to Rule J, Subsection 3.6b. The low floor elevation of the proposed building is summarized below and shows proposed project is in conformance with Rule J, Subsection 3.6a.

Building Riparian to Stormwater Facility	Low Floor Elevation of Building (feet)	Emergency Overflow Elevation of Adjacent Stormwater Facility (feet)	Freeboard to Emergency Overflow (feet)
Proposed Car Wash Building	900.0	894.80	5.2

Table 5. Low Floor Summary

Maintenance

Subsection 3.7 of Rule J requires the submission of maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed. While the applicant provided a draft post construction operation and maintenance plan for review, the following revisions are needed:

J1. Permit applicant must provide a maintenance and inspection declaration. A maintenance declaration template is available on the permits page of the RPBCWD website.
 (http://www.rpbcwd.org/permits/). A draft declaration must be provided for District review prior to recording.

Chloride Management

Subsection 3.8 of Rule J requires the submission of chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan. To close out the permit and release the \$5,000 in financial assurance held for the purpose of chloride management, the permit applicant must provide a chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.

Wetland Protection

In accordance with Rule J, subsection 3.10a, there is no proposed activity subject to Rule J that will alter the site in a manner that increases the bounce in water level, duration of inundation, or change the runout elevation in the subwatershed, for the wetland receiving runoff from the land disturbing activities. Because the applicant's HydroCAD model results demonstrate, and the engineer concurs, that the proposed flow

rate and volumes flowing towards the off-site wetland are less than the under existing conditions, the bounce and inundation will not increase, thus the project meets the Bounce and Inundation criterion.

Rule J, Subsection 3.10b requires that treatment of runoff to high and exceptional value wetlands archive 90 percent total suspended solids removal and 75 percent total phosphorus removal. Because the value of the off-site wetland is unknown, the applicant assumed the wetland is exceptional value. MIDS modeling results show the proposed underground infiltration system provides 93% TSS and 93% TP removals, thus the engineer finds that the proposed project is in conformance with Rule J, Subsection 3.10b.

Rule L: Permit Fee

The RPBCWD permit fee schedule requires permit applicants to submit a permit-fee deposit of \$3,000 to be held in escrow and applied to reimburse RPBCWD for the permit-application processing fee and permit review and inspection-related costs. A permit fee deposit of \$3,000 was received by Kimley-Horn and Associates, Inc on January 6, 2022.

Rule M: Financial Assurance

	Unit	Unit Cost	# of Units	Total
Rules C: Silt fence:	LF	\$2.50	760	\$1,900
Inlet protection	EA	\$100	1	\$100
Rock Entrance	EA	\$250	1	\$250
Restoration	Ac	\$2,500	0.85	\$2,125
Rules J: Stormwater Management Underground infiltration system: 125% of engineer's opinion of cost (\$95,000)	EA	125% OPC	1	\$118,750
Chloride Management	LS	\$5,000	1	\$5,000
Contingency (10%)		10%		\$12,813
Total Financial Assurance				\$140,938

Applicable General Requirements:

- 1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
- 2. Construction shall be consistent with the plans and specifications approved by the District as a part of the permitting process. The date of the approved plans and specifications is listed on the permit.
- 3. Construction must be consistent with the plans, specifications, and models that were submitted by the applicant that were the basis of permit approval. The date(s) of the approved plans, specifications, and modeling are listed on the permit. The grant of the permit does not in any way relieve the permittee, its engineer, or other professional consultants of responsibility for the permitted work.
- 4. The grant of the permit does not relieve the permittee of any responsibility to obtain approval of any other regulatory body with authority.

- 5. The issuance of this permit does not convey any rights to either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
- 6. In all cases where the doing by the permittee of anything authorized by this permit involves the taking, using or damaging of any property, rights or interests of any other person or persons, or of any publicly owned lands or improvements or interests, the permittee, before proceeding therewith, must acquire all necessary property rights and interest.
- 7. RPBCWD's determination to issue this permit was made in reliance on the information provided by the applicant. Any substantive change in the work affecting the nature and extent of applicability of RPBCWD regulatory requirements or substantive changes in the methods or means of compliance with RPBCWD regulatory requirements must be the subject of an application for a permit modification to the RPBCWD.
- 8. If the conditions herein are met and the permit is issued by RPBCWD, the applicant, by accepting the permit, grants access to the site of the work at all reasonable times during and after construction to authorized representatives of the RPBCWD for inspection of the work.

Findings

- 1. The proposed project includes the information necessary, plan sheets and erosion control plan for review.
- 2. The proposed project will conform to Rules C and J if the Rule Specific Permit Conditions listed above are met.

Recommendation:

Approval of the permit contingent upon:

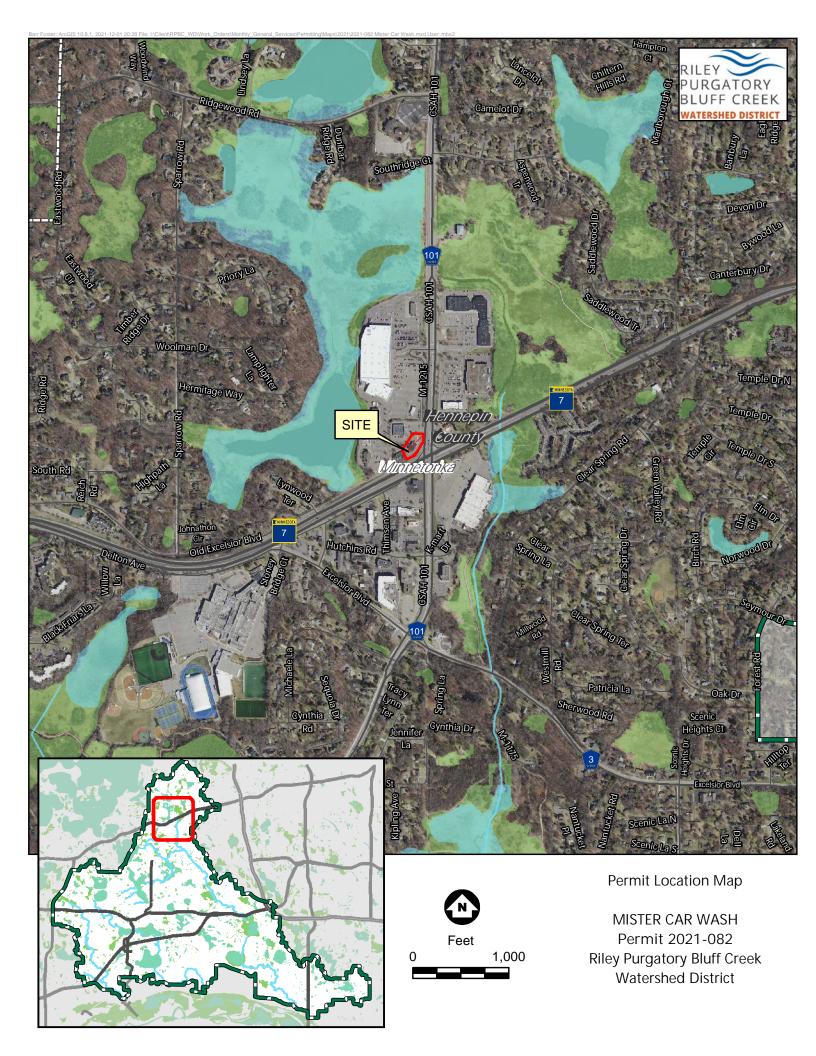
- 1. Continued compliance with General Requirements.
- 2. Financial Assurance in the amount of \$140,938.
- 3. Permit applicant must provide the name and contact information of the general contractor responsible for erosion and sediment control at the site. RPBCWD must be notified if the responsible party changes during the permit term.
- 4. Receipt in recordation a maintenance declaration for the stormwater management facilities. A draft must be approved by the District prior to recordation.
- 5. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Per Rule J Subsection 5.6, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization the stormwater management facilities conform to design specifications and functions as intended and approved by the District. As-

built/record drawings must be signed by a professional engineer licensed in Minnesota and include, but not limited to:

- a) the surveyed bottom elevations, water levels, and general topography of all facilities;
- b) the size, type, and surveyed invert elevations of all stormwater facility inlets and outlets;
- c) the surveyed elevations of all emergency overflows including stormwater facility, street, and other;
- d) other important features to show that the project was constructed as approved by the Managers and protects the public health, welfare, and safety.
- 2. Providing the following additional close-out materials:
 - a) Documentation that constructed infiltration facilities perform as designed. This may include infiltration testing, flood testing, or other with prior approval from RPBCWD
 - b) Documentation that disturbed pervious areas remaining pervious have been decompacted per Rule C Subsection 3.2c criteria
- 3. To close out the permit and release the \$5,000 in financial assurance held for the purpose of the chloride management, the permit applicant must provide a signed chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.
- 4. Per Rule J, Subsection 3.1.b.ii measured infiltration capacity of the soils at the bottom of the infiltration system must be provided. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate. In addition, subsurface soil investigation is needed to verify adequate separation to groundwater (Rule J subsection 3.1.b.2). If infiltration capacity is less than needed to conform with the volume abstraction requirement in subsection 3.1b or there is inadequate separation to groundwater, design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).



MISTER CAR WASH - MINNETONKA, MN

PROJECT TEAM:

ENGINEER KIMLEY-HORN AND ASSOCIATES, INC.



PREPARED BY: WILLIAM D. MATZEK, P.E. 767 EUSTIS STREET, SUITE 100 ST. PAUL, MN 55114 TELEPHONE (651) 645-4197

LANDSCAPE ARCHITECT KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100 ST. PAUL, MN 55114 TELEPHONE: (651) 645-4197

SURVEYOR EGAN, FIELD & NOWAK, INC. 1229 TYLER STREET NE, SUITE 100 MINNEAPOLIS, MN 55413 TELEPHONE: (612) 466-3368 CONTACT: CHRISTOPHER TERWEDO

OWNER MISTER CAR WASH

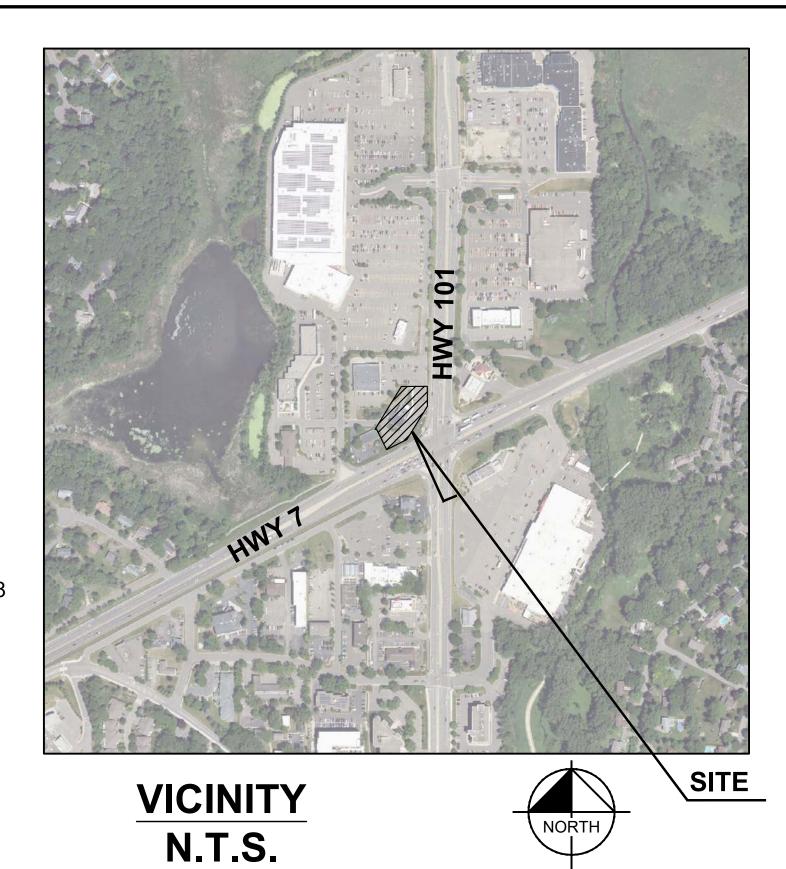


222 EAST 5TH AVE TUSCON, AZ 85705 TELEPHONE: (520) 615-4000 EXT. 258 CONTACT: TREVOR BUHL

ARCHITECT A23 STUDIOS 711 EAST 9TH STREET TUCSON, AZ 85719 TELEPHONE: (520) 903-2323 CONTACT: BURAK BEKAT

SITE DEVELOPMENT PLANS FOR

SECTION 30, TOWNSHIP 117N, RANGE 22W MINNETONKA, HENNEPIN COUNTY, MN



	Sheet List Table
Sheet Number	Sheet Title
C000	COVER SHEET
C100	GENERAL NOTES
C200	DEMO PLAN
C300	EROSION AND SEDIMENT CONTROL PLAN - PHASE 1
C301	EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
C302	EROSION AND SEDIMENT CONTROL DETAILS
C400	SITE PLAN
C401	SITE DETAILS
C500	GRADING PLAN
C501	GRADING DETAILS
C600	UTILITY PLAN
C601	UTILITY DETAILS
L100	LANDSCAPE PLAN
L101	LANDSCAPE DETAILS

NOTES:

- CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH 1 WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
- 2. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A ANSI full bleed D (34.00 x 22.00 Inches) SHEET.
- 3. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- 4. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

BENCHMARKS

SITE BENCHMARKS: (LOCATIONS SHOWN ON SURVEY)

SBM #1 TOP OF MINNESOTA DEPARTMENT OF TRANSPORTATION GEOGETIC MONUMENT "2706 K" ELEVATION=894.936 FEET. (NAVD88)

SBM #2 TOP NUT OF HYDRANT LOCATED SOUTHEASTERLY OF THE MOST SOUTHERLY CORNER OF THE SURVEYED PROPERTY ELEVATION=904.48 FEET. (NAVD88)



Know what's **below.** Call before you dig.

COOO	MISTER CAR WASH - MINNETONKA, MN PREPARED FOR MISTER CAR	R WASH VKA, MN PFOR CAR CAR SHEET	KHA PROJECT 160284002 DATE 12/20/2021 SCALE AS SHOWN DESIGNED BY ACL	I HEREBY CE SPECIFICATIO ME OR UNDE THAT I AM AI ENGINEER UI MINNESOTA.	Kimley Morn 2021 KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114				
ER	WASH		DRAWN BY AJW	VILLEIAM D. MAIZEK, P.E.	PHONE: 651-645-4197				
	MINNETONKA		снескер ву WDM	DATE: 12/20/2021	WWW.KIMLEY-HORN.COM	No.	REVISIONS	DATE	ВΥ

G	ENERAL CONSTRUCTION NOTES	E	ROSION CONTROI
1.	THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE MN DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.	1.	THE STORM WATER POLLUTION F PLAN, THE STANDARD DETAILS, T OF THE SWPPP, PLUS THE PERMIT
2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK,	2.	ALL CONTRACTORS AND SUBCO SHALL OBTAIN A COPY OF THE NATIONAL POLLUTANT DISCHARG FAMILIAR WITH THEIR CONTENTS.
3.	EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL. THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL "D" UNLESS OTHERWISE	3.	BEST MANAGEMENT PRACTICES (REQUIREMENTS OR MANUAL O ADDITIONAL CONTROLS AS DIREC
_	NOTED. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ACSE 38/02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF SUBSURFACE QUALITY DATA BY THE FHA. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S	4.	SITE ENTRY AND EXIT LOCATIO TRACKING OR FLOWING OF SEE WASHED, OR TRACKED ON A PU REQUIRED TO REMOVE SEDIMEN AN AREA STABILIZED WITH CRUS FINES IMPOSED FOR DISCHARGIN
	RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED	5.	TEMPORARY SEEDING OR OTHEF DAYS OF THE LAST DISTURBANCE
	BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND		THE CONTRACTOR SHALL MINIMIZ THE GENERAL PERMIT.
4.	THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING	7.	CONTRACTOR SHALL DENOTE O ALSO BE USED AS THE EQUIPME AREA FOR LOCATING PORTABLE F
	WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.	8.	ALL WASH WATER (CONCRETE DETAINED AND PROPERLY TREAT
5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.	9.	SUFFICIENT OIL AND GREASE AB SITE OR READILY AVAILABLE TO C
6.	THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.		THE CONTRACTOR SHALL BE RES OTHER PETROLEUM BASED OR TO
7.	ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN	11.	RUBBISH, TRASH, GARBAGE, LIT CONTAINERS. MATERIALS SHALL WIND OR STORM WATER DISCHAF
8.	ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.	12.	ALL STORM WATER POLLUTION PL SOON AS IS PRACTICABLE.
9.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE	13.	ALL STAGING AREAS, STOCKPIL ADVERSELY AFFECT STORM WAT SOME PROTECTIVE MEASURE WIL
	CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF MN PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.	14.	CONTRACTOR SHALL BE RESPO THEY DISTURB. EACH CONTRACT IN THE ESTABLISHED EROSION C STORM WATER POLLUTION, SE
10.	ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.		INCLUDE (BUT ARE NOT LIMITED SOLVENTS, GREASES, FUEL AND I
11.	ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.		EROSION CONTROL DEVICES SH LAND-DISTURBING ACTIVITIES ON
12.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN		ALL EROSION CONTROL DEVICES SPECIFICATIONS FOR THIS PROJ DESIGN ENGINEER AND THE CITY IF THE EROSION CONTROL F
	IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.		SEDIMENTATION FROM THE PRO ADDITIONAL EROSION CONTROL CONTROL PLAN MADE BY THE CO
13.	SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LADEN SOIL, STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMINATION, THEY SHALL IMMEDIATELY CONTACT THE ENGINEER AND OWNER.		
		P	AVING AND STRIP
		1.	ALL PAVING, CONSTRUCTION, M SHALL BE IN ACCORDANCE WITH
	ROSION CONTROL MAINTENANCE		OR MN/DOT SPECIFICATIONS ANE REGULATIONS.
POL JUF	LUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION AS REQUIRED BY ALL RISDICTIONS UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF E SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A CERTIFIED		ALL SIGNS, PAVEMENT MARKINGS ON UNIFORM TRAFFIC CONTROL I
EVE	RSON AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL ENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:	3.	CONTRACTOR SHALL FURNISH A STALLS, ACCESSIBLE PARKING S STRIPING WITHIN THE PARKING LO
	ET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF DERMINING, OR DETERIORATION.		ALL EXPANSION JOINTS SHALL EX
1.	ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO THE STANDARD SPECIFICATIONS.		THE MINIMUM LENGTH OF OFFSET ALL JOINTS, INCLUDING EXPANSION SEALANT.
2.	SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.	7.	THE MATERIALS AND PROPERTIE THE A.C.I. (AMERICAN CONCRETE
3.	THE CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.	8.	CONTRACTOR SHALL APPLY A SE BY OWNER FOLLOWED BY A COAT
4.	THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS	9.	ANY EXISTING PAVEMENT, CURBS CONTRACTOR AT HIS EXPENSE TO
5.	CONDITIONS DEMAND. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.	10.	BEFORE PLACING PAVEMENT, CO GRADING FOR ALL SIDEWALKS CONFORM TO CURRENT ADA STA EXCEED 1 VERTICAL TO 12 HORIZ CASE SHALL LONGITUDINAL SIDE STALLS OR AISLES EXCEED 2% BUILDING DOORS AND GATES

TYPICAL OWNER/ENGINEER OBSERVATIONS

CONTRACTOR SHALL NOTIFY OWNER AND/OR ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES:

> - PRE-CONSTRUCTION MEETING, SUBGRADE PREPARATION, BASE INSTALLATION ASPHALT INSTALLATION, UNDERGROUND PIPING AND UTILITIES INSTALLATION, INSTALLATION OF STRUCTURES, CHECK VALVES, HYDRANTS, METERS, ETC., SIDEWALK INSTALLATION, CONNECTIONS TO WATER AND SEWER MAINS, TESTS OF UTILITIES

DL NOTES

- CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS SO THAT (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL SURFACE RUNOFF WILL DRAIN BY GRAVITY TO NEW OR EXISTING DRAINAGE OUTLETS. CONTRACTOR OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT SHALL ENSURE NO PONDING OCCURS IN PAVED AREAS AND SHALL NOTIFY ENGINEER IF ANY GRADING ECTED BY THE PERMITTING AGENCY OR OWNER. DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT OR UTILITIES.
- IONS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE EDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY. WHEN WASHING IS POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED ENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY, IT SHALL BE DONE IN DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED TO USHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL MATCH THE PROPOSED FINISHED GRADES. GING SEDIMENT ONTO PUBLIC AREAS SHALL BE PAID BY THE CONTRACTOR.
- BACKFILL FOR UTILITY LINES SHALL BE PLACED PER DETAILS, STANDARDS, AND SPECIFICATIONS SO THAT IER APPROVED METHODS OF STABILIZATION SHALL BE INITIATED WITHIN 7 THE UTILITY WILL BE STABLE. WHERE UTILITY LINES CROSS THE PARKING LOT, THE TOP 6 INCHES SHALL BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHALL BE VISUALLY CE ON ANY AREA OF THE SITE. 5. INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
- MIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY
- ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL MENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND E FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE ATED OR DISPOSED.
- ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON) CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF ITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES 9. LL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS. IARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS
- PILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THESE AREAS WITH VILL BE NECESSARY
- PONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH CTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES CONTROL MEASURES THAT MAY LEAD TO UNAUTHORIZED DISCHARGE OR SEDIMENTATION, OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS ED TO) EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, D LUBRICANT OIL, PESTICIDES, AND ANY SOLID WASTE MATERIALS.
- SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF ON THE PROJECT.
- ES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND OJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE TY OF MINNETONKA ENGINEERING DIVISION.
- PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE 14. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS ROJECT, THE EROSION CONTROL PLAN WILL HAVE TO BE REVISED AND/OR OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, DEVICES WILL BE REQUIRED ON SITE, ANY REVISIONS TO THE EROSION SEDIMENTATION OR TURBID DISCHARGES. CONTRACTOR MUST BE APPROVED BY THE ENGINEER.

PING NOTES

- MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY TH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) ND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY
- IGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL L DEVICES (M.U.T.C.D) AND CITY STANDARDS.
- ALL PAVEMENT MARKINGS FOR FIRE LANES, ROADWAY LANES, PARKING 23. ALL PROPOSED GRADES ONSITE SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. SYMBOLS, ACCESS AISLES, STOP BARS AND SIGNS, AND MISCELLANEOUS ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET. LOT AS SHOWN ON THE PLANS.
- EXTEND THROUGH THE CURB.
- SET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
- SION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT
- TIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN TE INSTITUTE) MANUAL OF CONCRETE PRACTICE.
- SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE AT OF GLASS BEADS AS APPLICABLE PER THE PROJECT DOCUMENTS.
- BS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER A.D.A). (S AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL TATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES IZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2% . IN NO IDEWALK SLOPES EXCEED 5%. IN NO CASE SHALL ACCESSIBLE PARKING % (1.5% TARGET) IN ALL DIRECTIONS. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.
- 11. MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS MIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

CONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION E STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF MN RGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME

GRADING AND DRAINAGE NOTES

- GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 2. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL ADJUST BMP'S AS NECESSARY AND REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.

- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF 4" OF TOPSOIL AT COMPLETION OF WORK. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY 7. NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- 10. IF DEWATERING IS REQUIRED. THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO MN/DOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 12. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 15. THE CONTRACTOR SHALL ENSURE THAT LANDSCAPE ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- 16. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS AND MN/DOT SPECIFICATION
- 17. ALL CONCRETE/ASPHALT SHALL BE INSTALLED PER GEOTECH REPORT, CITY OF MINNETONKA AND MN/DOT 18. ALL ROOF AND SANITARY SEWER DRAINS SHALL BE INSULATED IF 7' OF COVER CANNOT BE PROVIDED. SPECIFICATIONS.
- 18. SPOT ELEVATIONS ARE TO FLOWLINE OF CURB UNLESS OTHERWISE NOTED.
- 19. LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN.
- 20. IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.
- 21. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES. AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT COMPENSATION.
- 22. BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- 24. ADHERE TO ALL TERMS AND CONDITIONS AS NECESSARY IN THE GENERAL N.P.D.E.S. PERMIT AND STORMWATER POLLUTION PREVENTION PLAN FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 25. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS
- 26. CONTRACTOR SHALL ENSURE MINIMUM GRADES ARE MET WITHIN PAVED AREAS, 1.2% FOR ASPHALT PAVING AND 0.6% FOR CONCRETE PAVING.

3RD PARTY TEST REPORTS REQ'D

TEST REPORTS REQUIRED FOR CLOSE OUT INCLUDE, BUT ARE NOT LIMITED TO:

- DENSITY TEST REPORTS
- BACTERIOLOGICAL TESTS OF WATER SYSTEM
- PRESSURE TEST OF WATER/SEWER - LEAK TESTS ON SEWER SYSTEM AND GREASE TRAPS
- ANY OTHER TESTING REQUIRED BY THE AGENCY/MUNICIPALITY

- TO BACK FILLING.

- UTILIZED.
- SPECIFICATIONS.
- SPECIFICATIONS.

WATER STORM SEWER & SANITARY SEWER NOTES

1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES, GRAVITY SEWER LINES, AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS, OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.

3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.

DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.

ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

6. WATER FOR FIRE FIGHTING SHALL BE MADE AVAILABLE FOR USE BY THE CONTRACTOR PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.

ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF MN PROFESSIONAL LAND SURVEYOR PRIOR

CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

10. CONTRACTOR SHALL PROVIDE FOR A MINIMUM HORIZONTAL CLEARANCE OF 10' AND A VERTICAL CLEARANCE OF 18" BETWEEN WATER AND SANITARY SEWER MANHOLES AND LINES.

11. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

12. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT UNLESS OTHERWISE STATED BY CITY AND STATE DESIGN STANDARDS AND SPECIFICATIONS.

13. UNLESS OTHERWISE STATED IN CITY AND STATE DESIGN STANDARDS AND SPECIFICATIONS, ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER". EXISTING CASTINGS AND STRUCTURES WITHIN PROJECT LIMITS SHALL BE ADJUSTED TO MEET THESE CONDITIONS AND THE PROPOSED FINISHED GRADE.

14. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.

15. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO

16. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT

17. ROOF DRAINS SHALL BE CONNECTED TO STORM SEWER BY PREFABRICATED WYES OR AT STORM STRUCTURES. ROOF DRAINS AND TRUCK WELL DRAIN SHALL RUN AT A MINIMUM 1% SLOPE, UNLESS NOTED OTHERWISE, AND TIE IN AT THE CENTERLINE OF THE STORM MAIN.

19. THE CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND UTILITIES AND APPURTENANCES THAT ARE TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS.

20. THE LOCATION OF EXISTING UTILITIES, STORM DRAINAGE STRUCTURES AND OTHER ABOVE AND BELOW-GRADE IMPROVEMENTS ARE APPROXIMATE AS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE AND INVERT ELEVATIONS OF EACH PRIOR TO THE START OF CONSTRUCTION.

21. A MINIMUM OF 5' SEPARATION IS REQUIRED BETWEEN UTILITIES AND TREES UNLESS A ROOT BARRIER IS

22. GAS. PHONE AND ELECTRIC SERVICES SHOWN FOR INFORMATIONAL PURPOSES ONLY. DRY UTILITY COMPANIES MAY ALTER THE DESIGN LAYOUT DURING THEIR REVIEW. CONTRACTOR TO COORDINATE FINAL DESIGN AND INSTALLATION WITH UTILITY COMPANIES.

23. COORDINATE UTILITY INSTALLATION WITH IRRIGATION DESIGN AND INSTALLATION.

24. ALL DIMENSIONS ARE TO FLOW LINE OF CURB UNLESS OTHERWISE NOTED. PERIMETER WALL DIMENSIONS ARE TO INSIDE WALL FACE. REFERENCE ARCHITECTURAL PLANS FOR EXACT WALL WIDTH AND

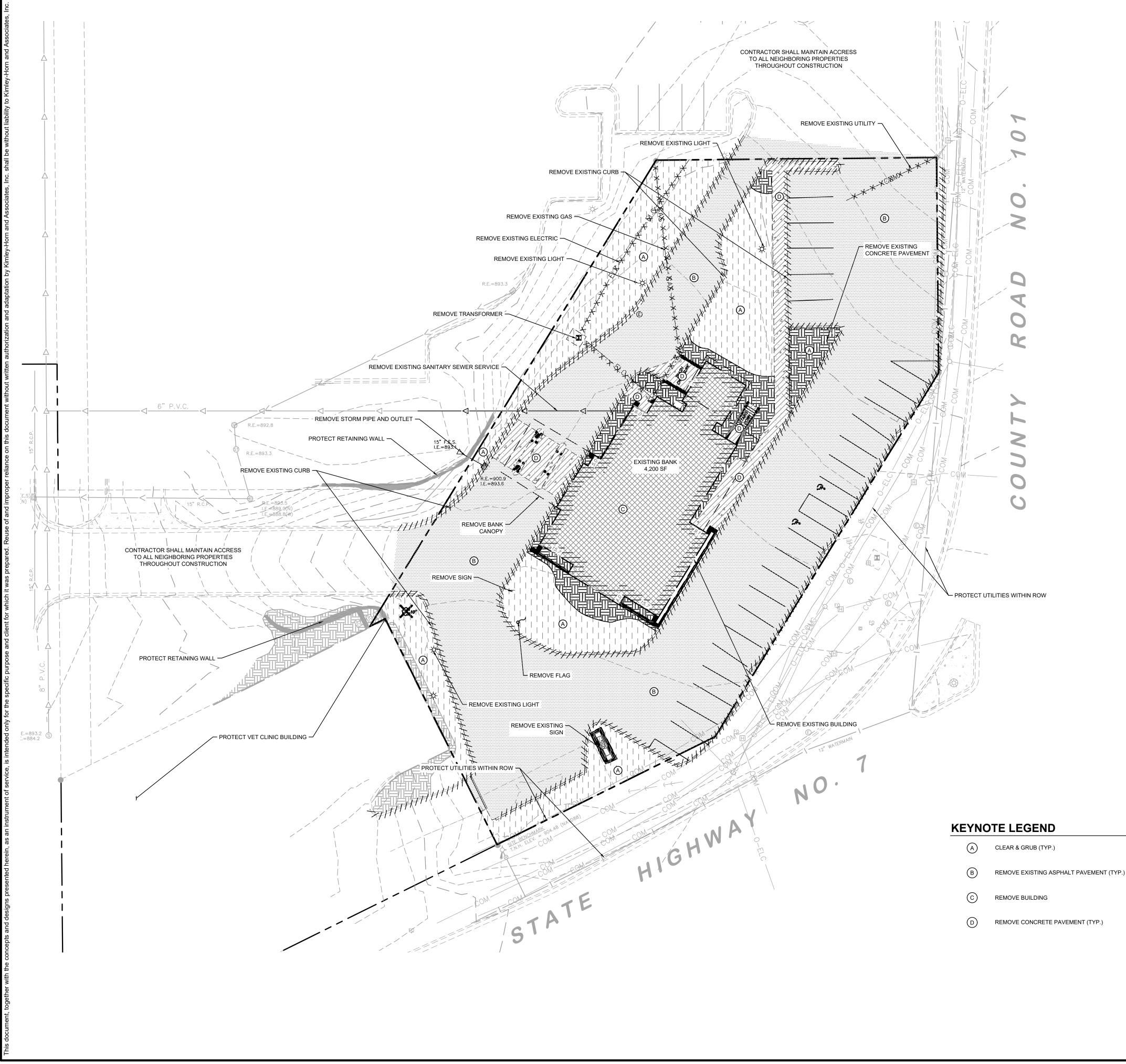
25. REFERENCE ARCHITECTURAL PLANS (BY OTHERS). FOR EXACT BUILDING DIMENSIONS, AND MATERIALS

26. REFERENCE M.E.P. PLANS (BY OTHERS) FOR MECHANICAL EQUIPMENT DIMENSIONS AND SPECIFICATIONS.

27. CONTRACTOR SHALL REFERENCE STRUCTURAL PLANS (BY OTHERS) FOR MECHANICAL EQUIPMENT DIMENSIONS AND PAD PREPARATION SPECIFICATIONS.

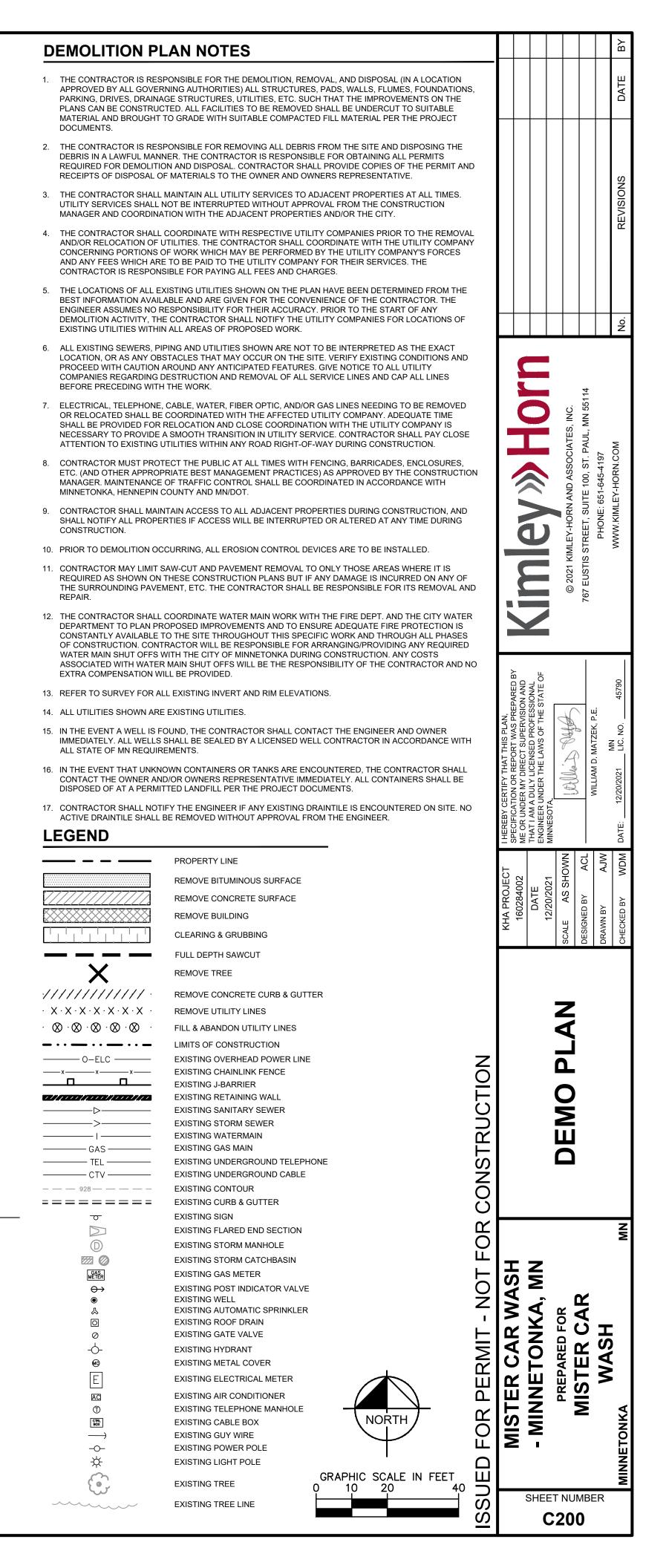
28. CONTRACTOR SHALL REFERENCE M.E.P PLANS (BY OTHERS) FOR LIGHT POLE WIRING.

	MISTER CAR WASH		KHA PROJECT	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OB PEPORT WAS PREPARED BY				
ç			160284002	ME OR UNDER MY DIRECT SUPERVISION AND				
SHE	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		DATE	THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF				
_			12/20/2021	MINNESOTA.				
NUI 10		GENERAL NOIES	SCALE AS SHOWN	C. M. D. Durth	2021 KIMLEY-HORN AND ASSOCIATES, INC.			
	MISTER CAR		DESIGNED BY ACL		767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114			
⊧R	WASH		DRAWN BY AJW	WILLIAM D. MAI ZEK, P.E.	PHONE: 651-645-4197			
	MINNETONKA		снескер ву WDM	DATE: 12/20/2021 LIC. NO. 45790	WWW.KIMLEY-HORN.COM	No.	REVISIONS	DATE BY



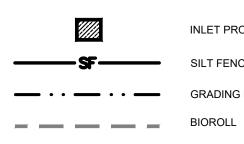
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REMOVE CONCRETE PAVEMENT (TYP.)





LEGEND



ROCK ENTRANCE

INLET PROTECTION

SILT FENCE

- GRADING LIMITS

EROSION CONTROL PLAN NOTES

- 1. ALL PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- 2. THE CONTRACTOR SHALL CONSTRUCT DRAINAGE BASINS PRIOR TO SITE GRADING.
- 3. THE CONTRACTOR SHALL INSTALL CATCH BASIN EROSION CONTROL MEASURES.
- 4. WITHIN TWO WEEKS (14 DAYS) OF SITE GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, OR ROCK BASE. REFER TO LANDSCAPE PLANS FOR MATERIALS.
- 5. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, STATE, AND WATERSHED DISTRICT PERMITS.
- 6. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF SILT IN FRONT OF SILT FENCES DURING THE DURATION OF THE CONSTRUCTION.
- 7. ANY EXCESS SEDIMENT IN PROPOSED BASINS SHALL BE REMOVED BY THE CONTRACTOR.
- 8. REMOVAL ALL EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED.
- 9. THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS AND SHALL SWEEP ADJACENT STREETS AS NECESSARY IN ACCORDANCE WITH CITY REQUIREMENTS.
- 10. IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.
- 11. CONSTRUCTION SHOULD INCLUDE MINIMIZATION OF THE DISTURBANCE INTENSITY AND DURATION, INCLUDING PHASING OF DISTURBANCE TO MINIMIZE QUANTITY OF DISTURBED AREA AT ANY ONE TIME.
- 12. SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE: 12.1. A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KILOPASCALS
- OR 200 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF SOIL OR 12.2. A BULK DENSITY OF LESS THAN 1.4 GRAMS PER CUBIC CENTIMETER OR 87 POUNDS PER CUBIC FOOT IN THE UPPER 12 INCHES OF SOIL.

IN ADDITION, UTILITIES, TREE ROOTS, AND OTHER EXISTING VEGETATION MUST BE PROTECTED UNTIL FINAL REVEGETATION OR OTHER STABILIZATION OF THE SITE.

- 13. PROTECTION OF NATURAL TOPOGRAPHY AND SOILS CONDITIONS, INCLUDING RETENTION ONSITE OF NATIVE TOPSOIL TO THE GREATEST EXTENT POSSIBLE.
- 14. STAKING OFF AND MARKING OF PROPOSED INFILTRATION FACILITIES TO PREVENT SOIL COMPACTION BY HEAVY EQUIPMENT, STOCKPILING OF MATERIALS, AND TRAFFIC. IF INFILTRATION FACILITIES ARE IN PLACE DURING CONSTRUCTION ACTIVITIES, BEST PRACTICES MUST BE DEPLOYED TO PREVENT SEDIMENT AND OTHER MATERIAL FROM ENTERING THE PRACTICE. INFILTRATION FACILITIES MUST NOT BE EXCAVATED TO WITHIN 3 FEET FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED. ANY ACCUMULATED SEDIMENT IN AN INFILTRATION FACILITY MUST BE REMOVED IN MANNER THAT PREVENTS COMPACTION OF THE FACILITY BOTTOM.

SEQUENCE OF CONSTRUCTION:

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

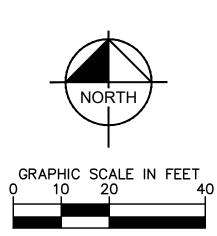
BMP AND EROSION CONTROL INSTALLATION SEQUENCE SHALL BE AS FOLLOWS:

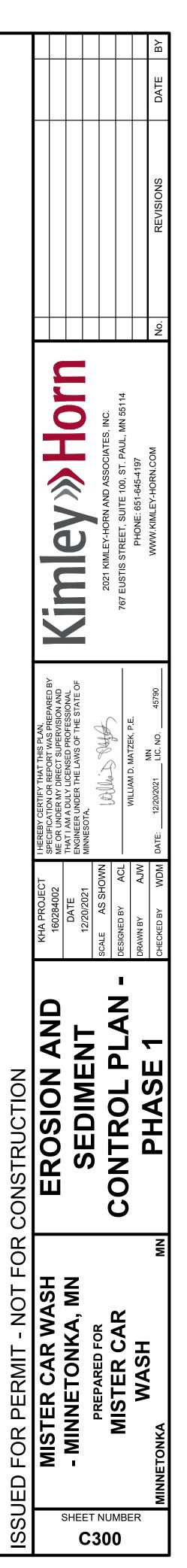
- INSTALL INLET PROTECTION AT EXISTING STORMWATER CULVERTS. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (1), CONCRETE WASHOUT PIT (1) AND INSTALL SILT FENCE.
- PREPARE TEMPORARY PARKING AND STORAGE AREA. CONSTRUCT AND STABILIZE DIVERSIONS AND TEMPORARY SEDIMENT TRAPS.
- PERFORM CLEARING AND GRUBBING OF THE SITE. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
- START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE OR AS REQUIRED BY NPDES AND/OR CITY OF MINNETONKA GRADING PERMIT.

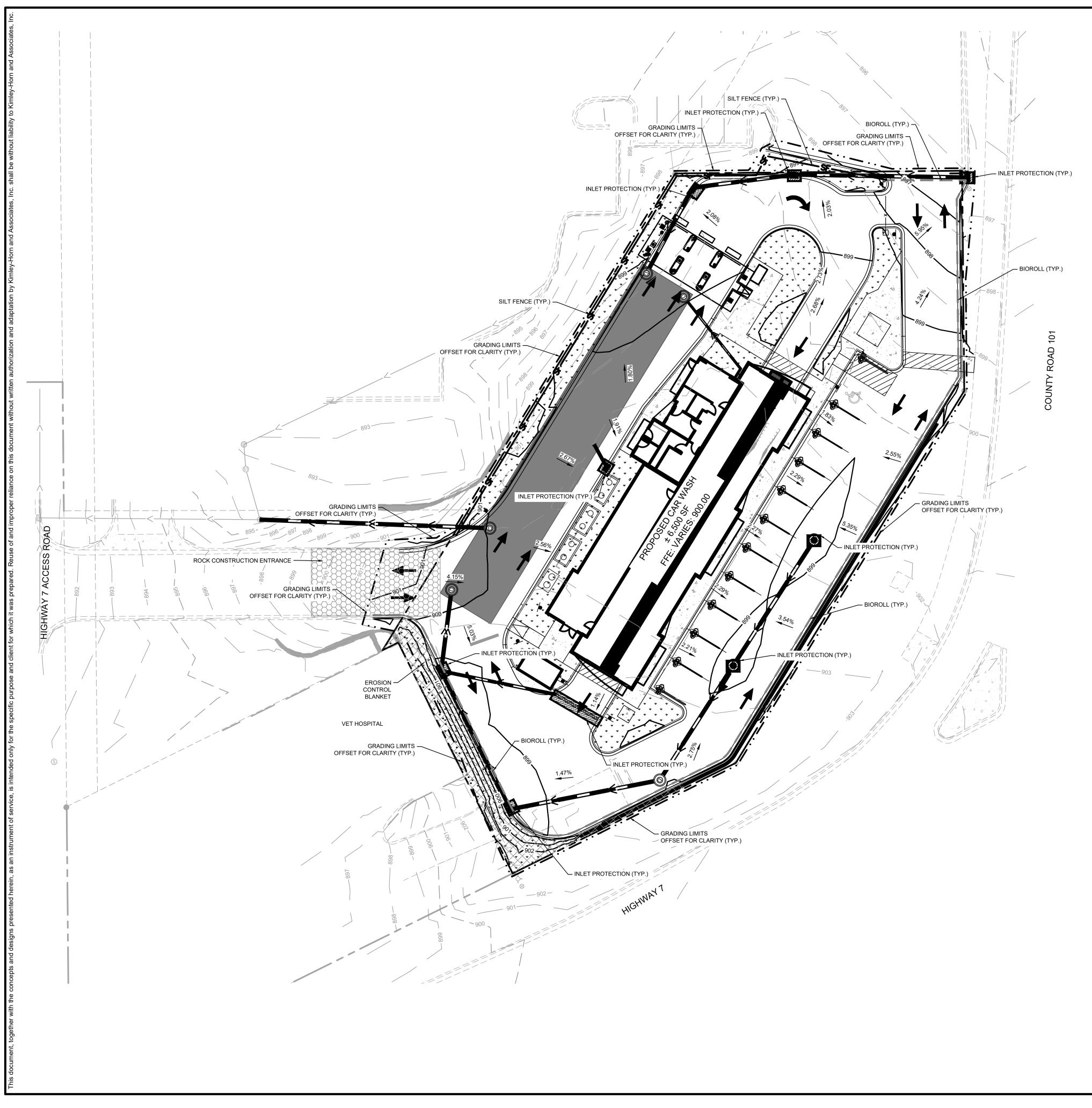
DEVELOPER/OWNER: CAR WASH PARTNERS, INC. 222 E 5TH STREET TUSCON, AZ 85705

SITE OPERATOR/GENERAL CONTRACTOR: T.B.D.

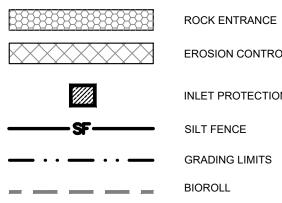
SUPERINTENDENT:







LEGEND



EROSION CONTROL BLANKET INLET PROTECTION SILT FENCE GRADING LIMITS

- **EROSION CONTROL PLAN NOTES**
- 1. ALL PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- 2. THE CONTRACTOR SHALL CONSTRUCT DRAINAGE BASINS PRIOR TO SITE GRADING.
- 3. THE CONTRACTOR SHALL INSTALL CATCH BASIN EROSION CONTROL MEASURES. 4. WITHIN TWO WEEKS (14 DAYS) OF SITE GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, OR ROCK BASE. REFER TO LANDSCAPE PLANS FOR
- MATERIALS. 5. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, STATE, AND WATERSHED DISTRICT PERMITS.
- 6. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF SILT IN FRONT OF SILT FENCES DURING THE DURATION OF THE CONSTRUCTION.
- 7. ANY EXCESS SEDIMENT IN PROPOSED BASINS SHALL BE REMOVED BY THE CONTRACTOR.
- 8. REMOVAL ALL EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED.
- 9. THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS AND SHALL SWEEP ADJACENT STREETS AS NECESSARY IN ACCORDANCE WITH CITY REQUIREMENTS.
- 10. IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.
- 11. CONSTRUCTION SHOULD INCLUDE MINIMIZATION OF THE DISTURBANCE INTENSITY AND DURATION, INCLUDING PHASING OF DISTURBANCE TO MINIMIZE QUANTITY OF DISTURBED AREA AT ANY ONE TIME.
- 12. SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE: 12.1. A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KILOPASCALS OR 200 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF SOIL OR
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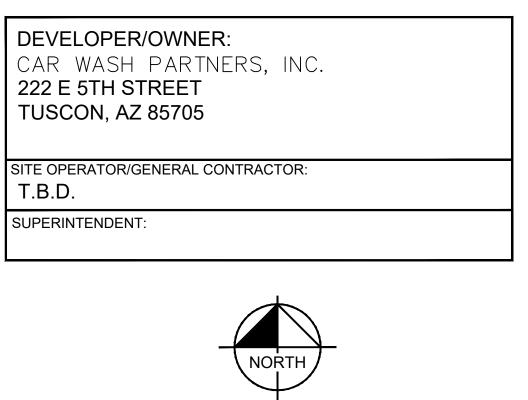
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SEQUENCE OF CONSTRUCTION:

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

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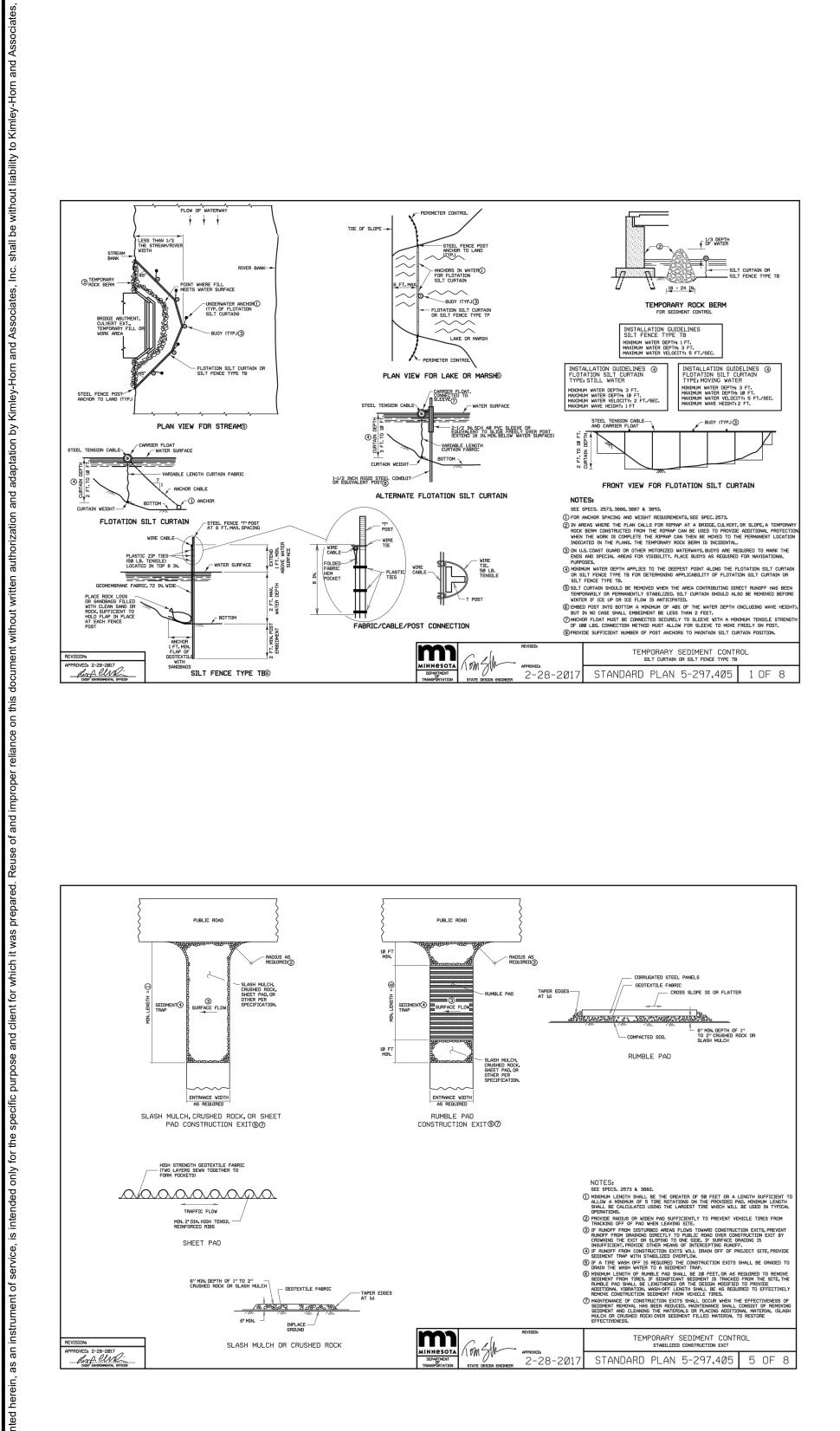
- 1. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE.
- 2. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, UNDERGROUND SYSTEM, CURBS AND GUTTERS.
- 3. INSTALL APPROPRIATE INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
- 4. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
- 5. PREPARE SITE FOR PAVING.
- 6. PAVE SITE AND INSTALL STRIPING.
- 7. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
- 8. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL
- AREAS. 9. OBTAIN CONCURRENCE WITH THE CIVIL ENGINEERING CONSULTANT THAT THE
- SITE HAS BEEN FULLY STABILIZED THEN: 1. REMOVE ALL REMAINING TEMPORARY EROSION ADN SEDIMENT CONTROL DEVICES 2. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF BMPS.

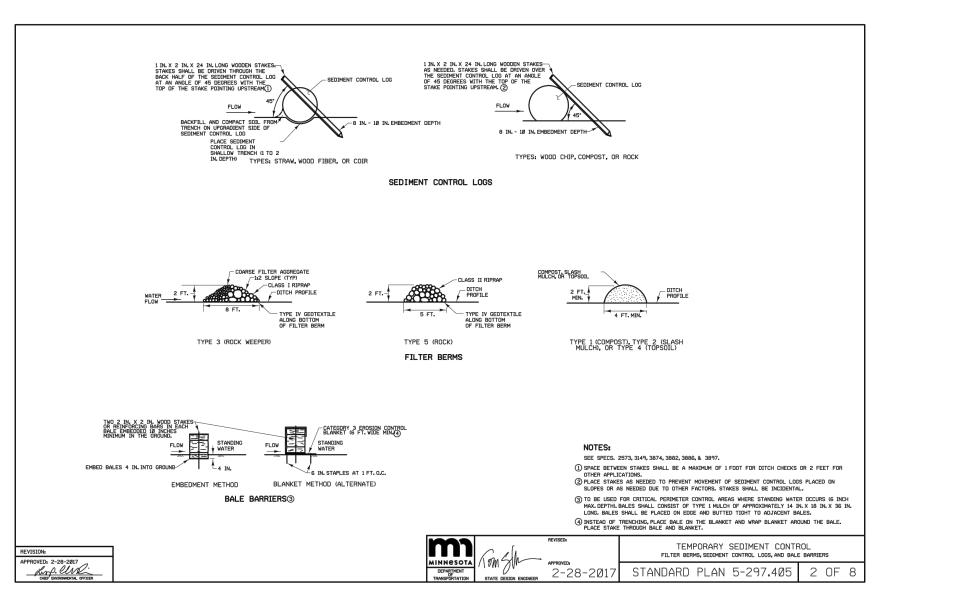


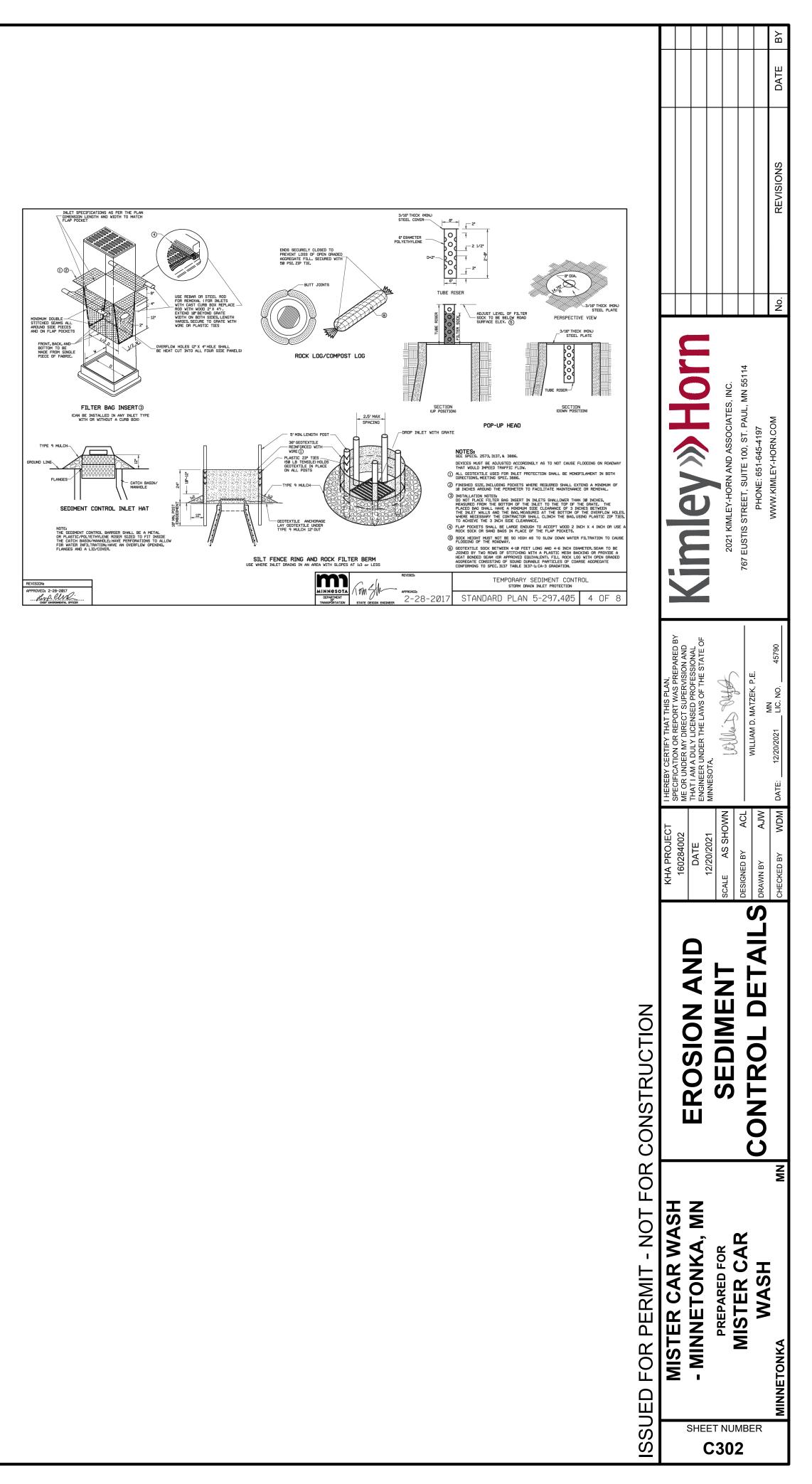
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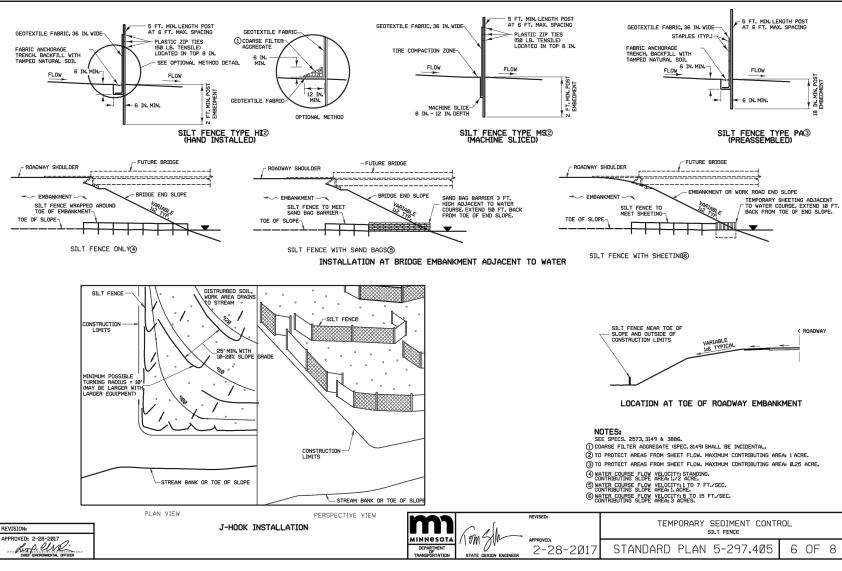
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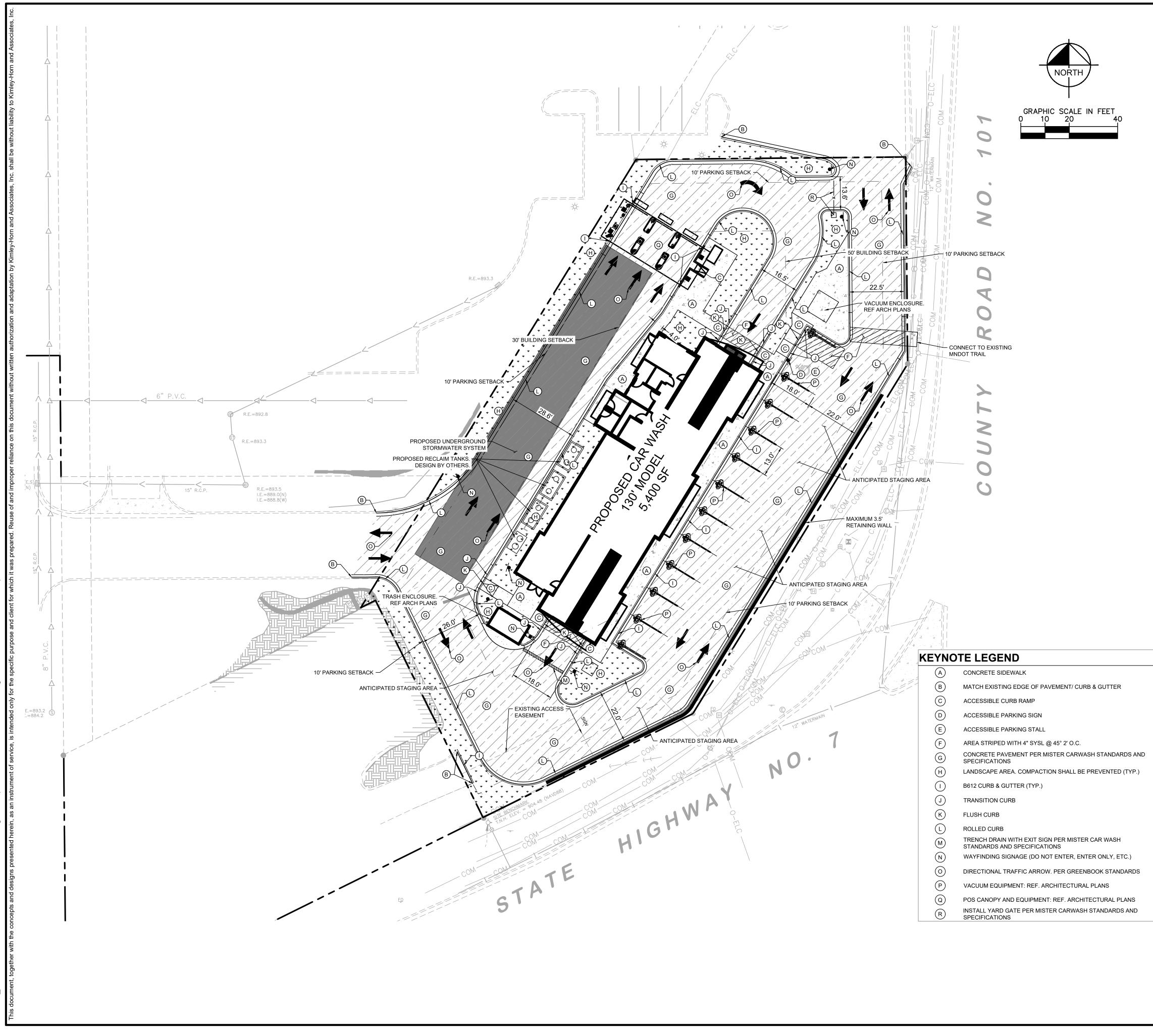






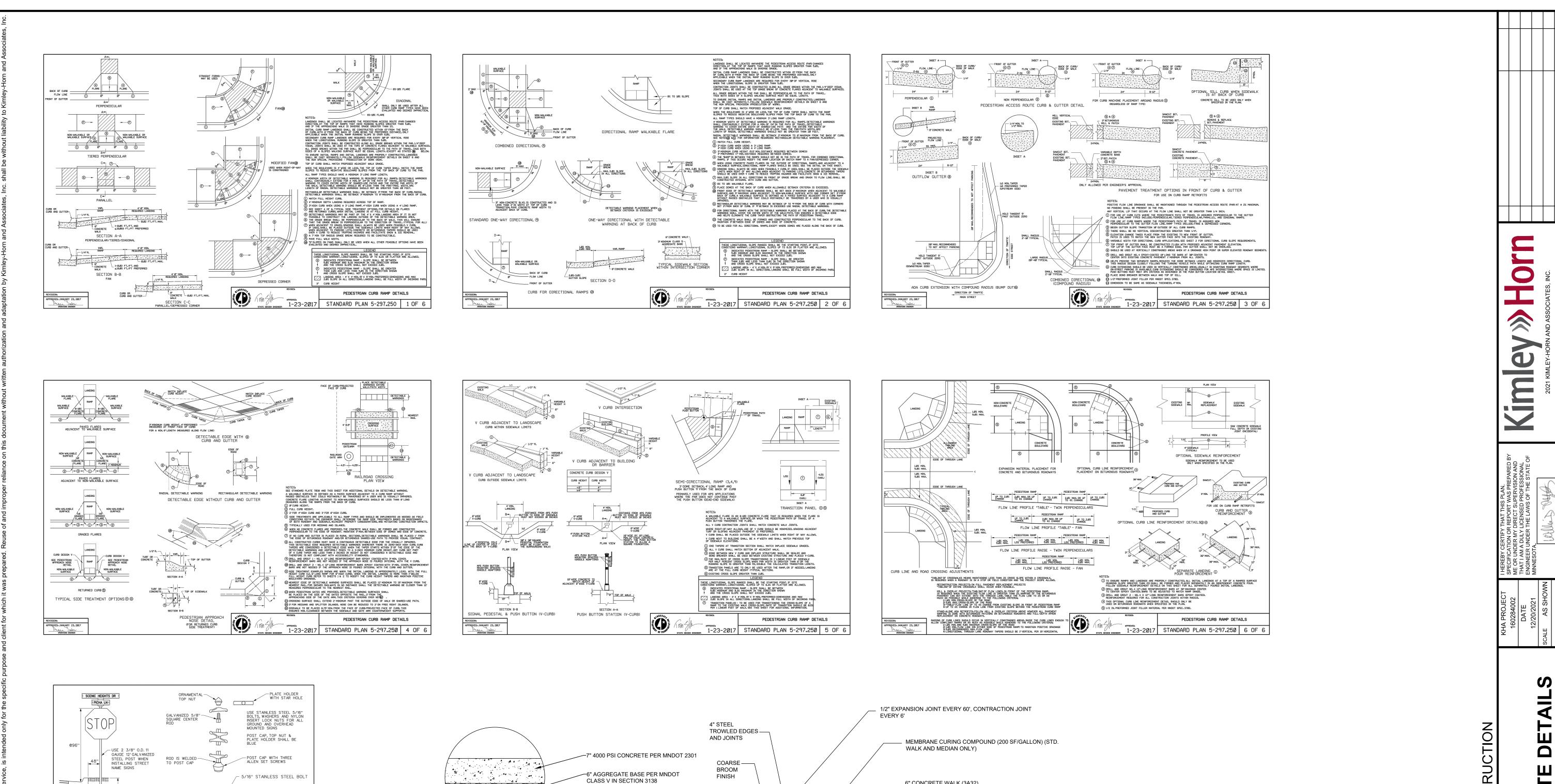


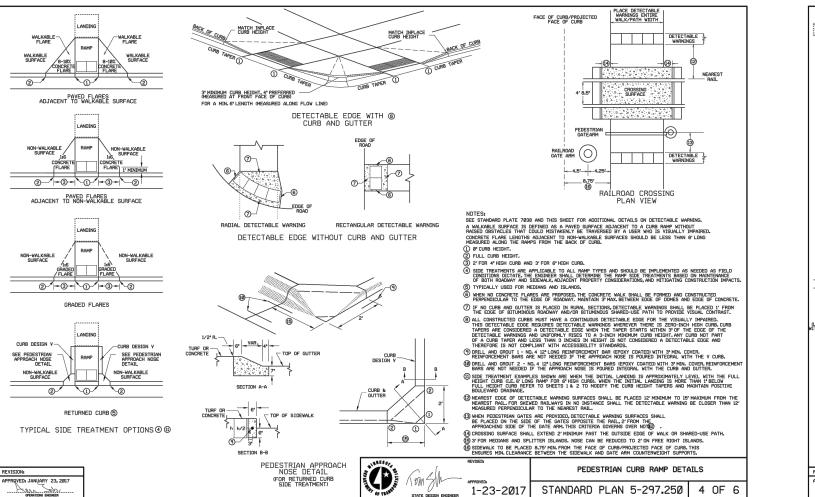




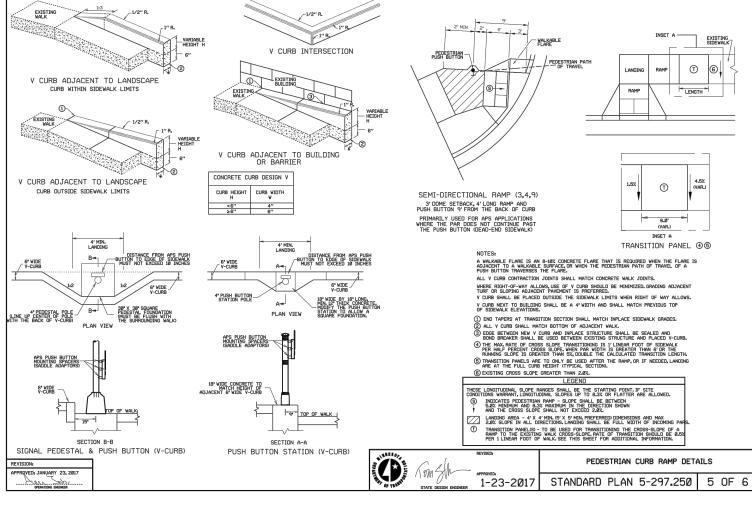
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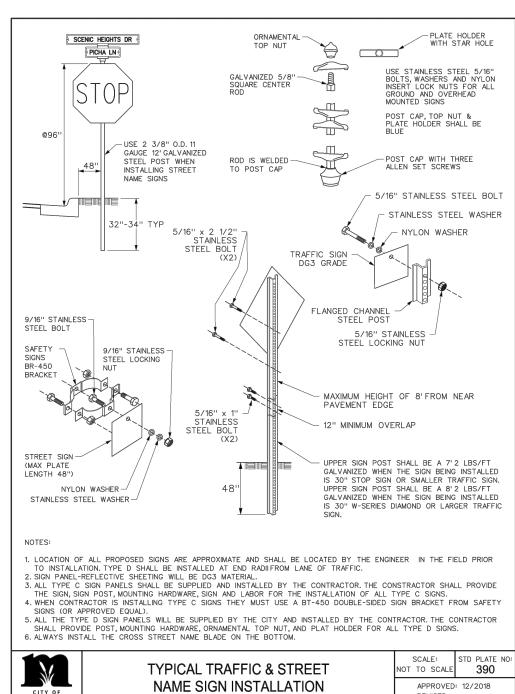
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			<u>ග</u> C400

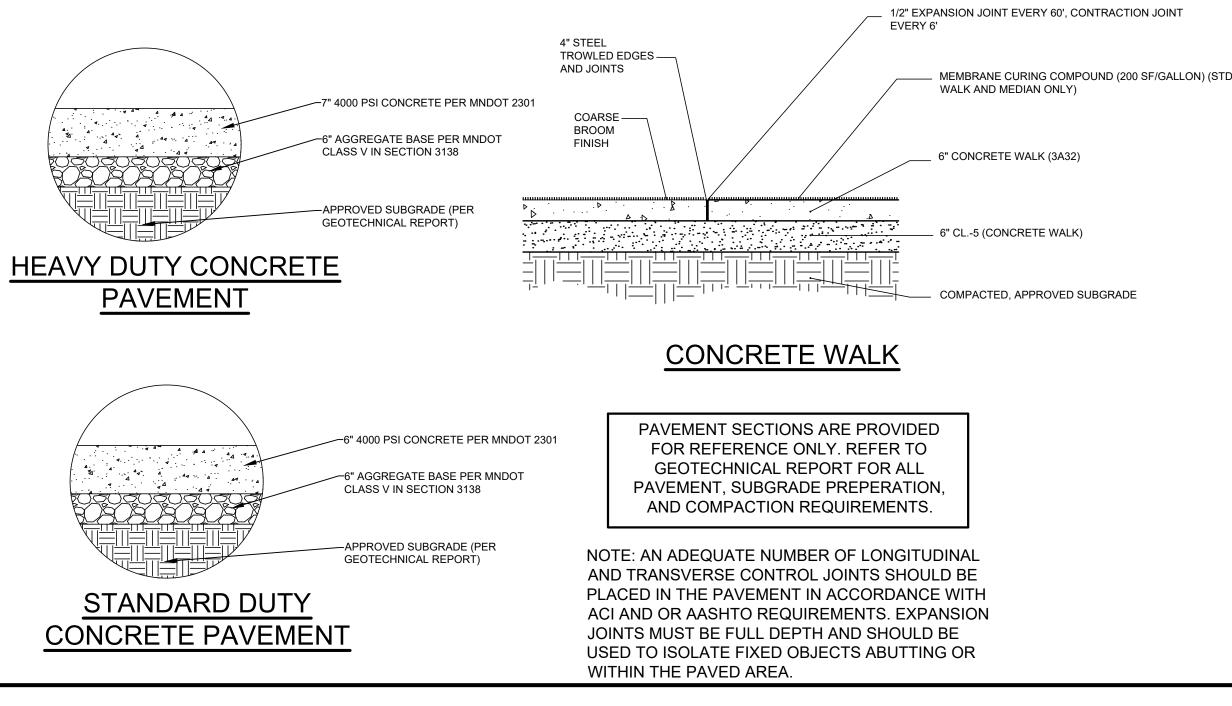




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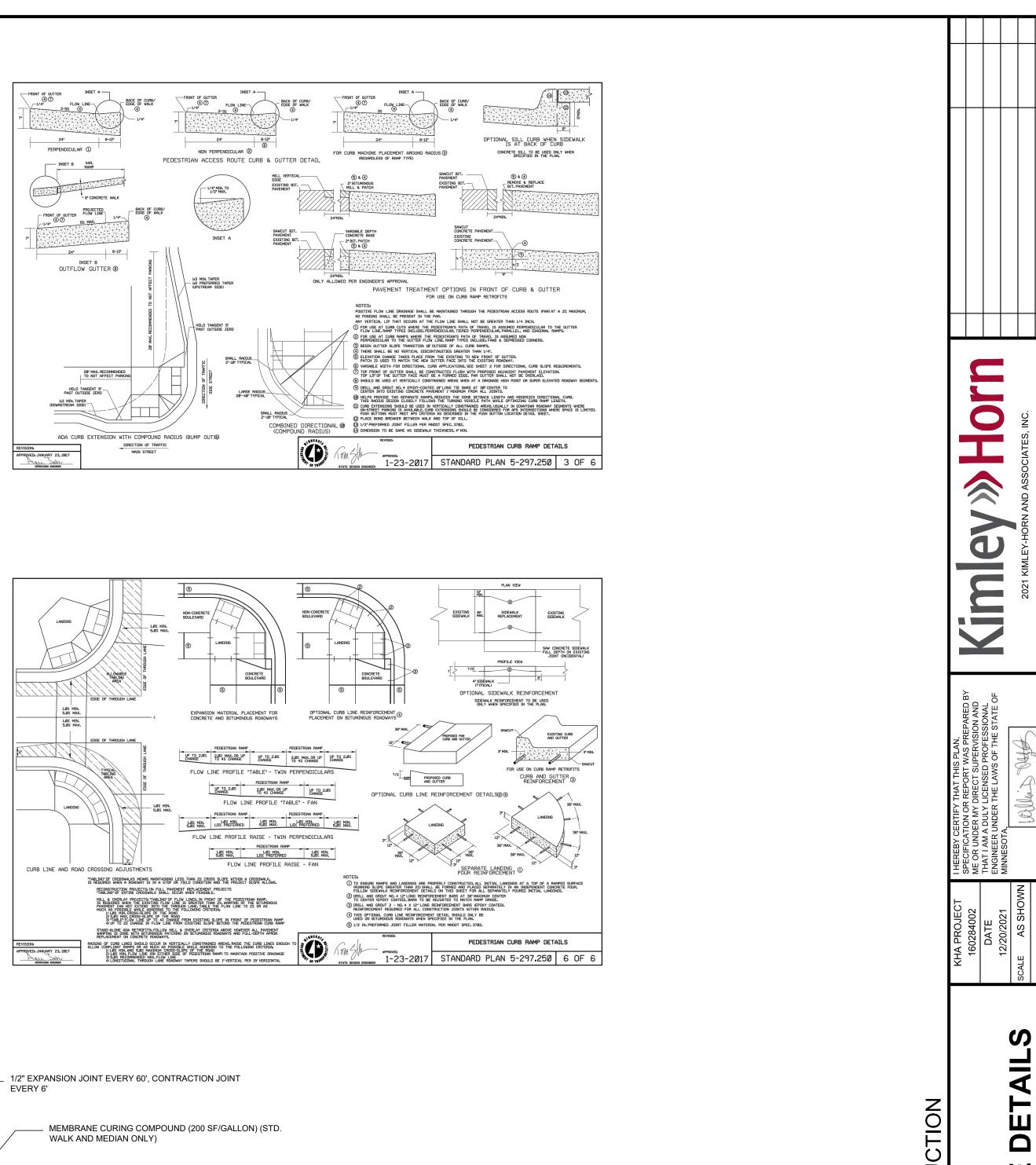


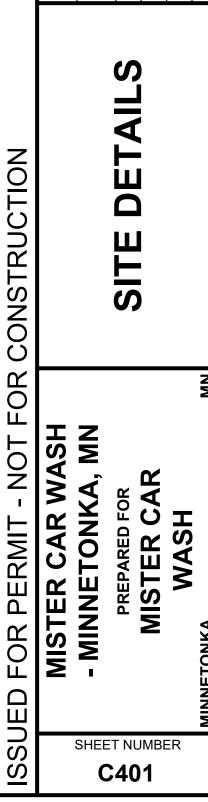


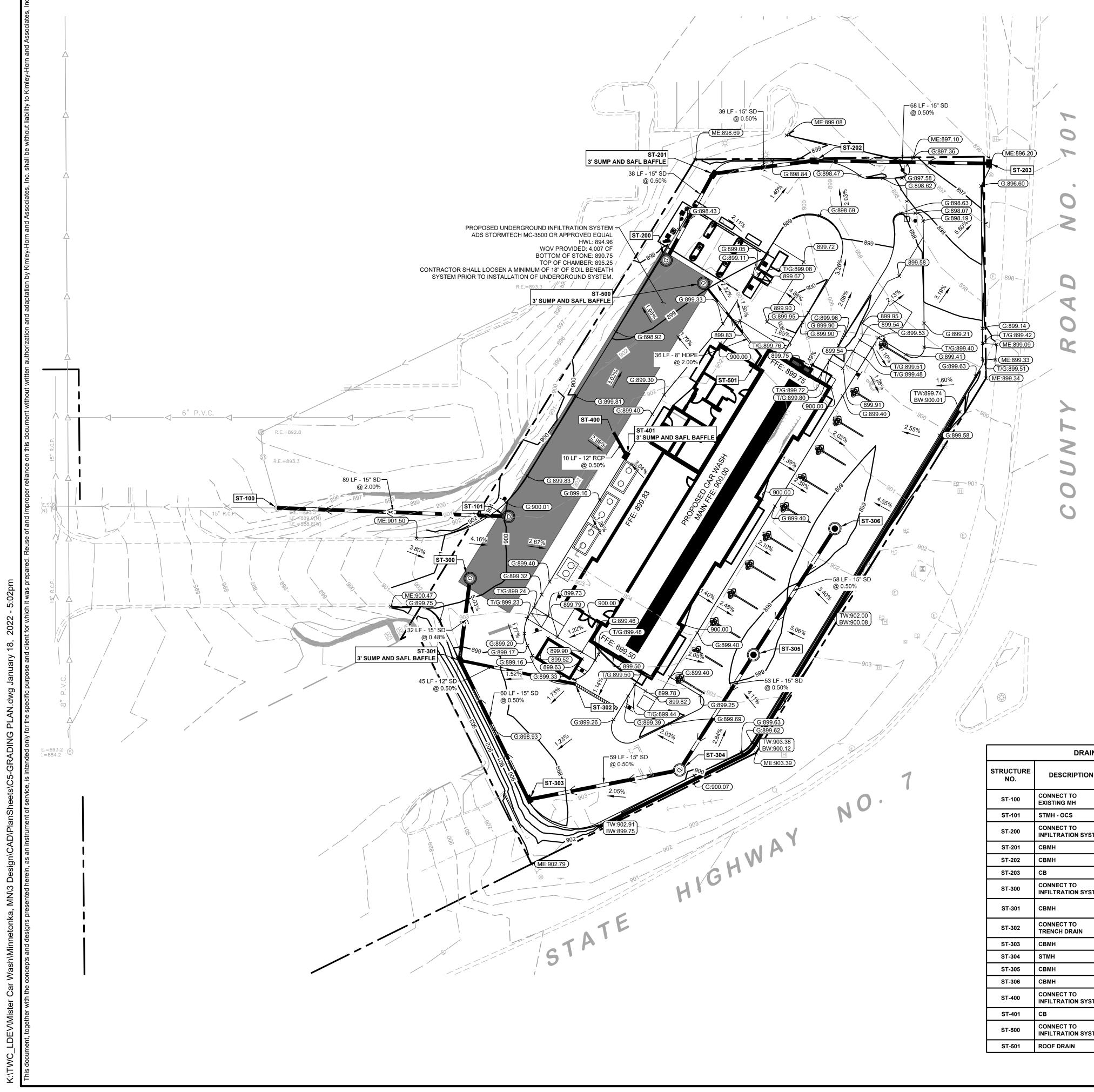


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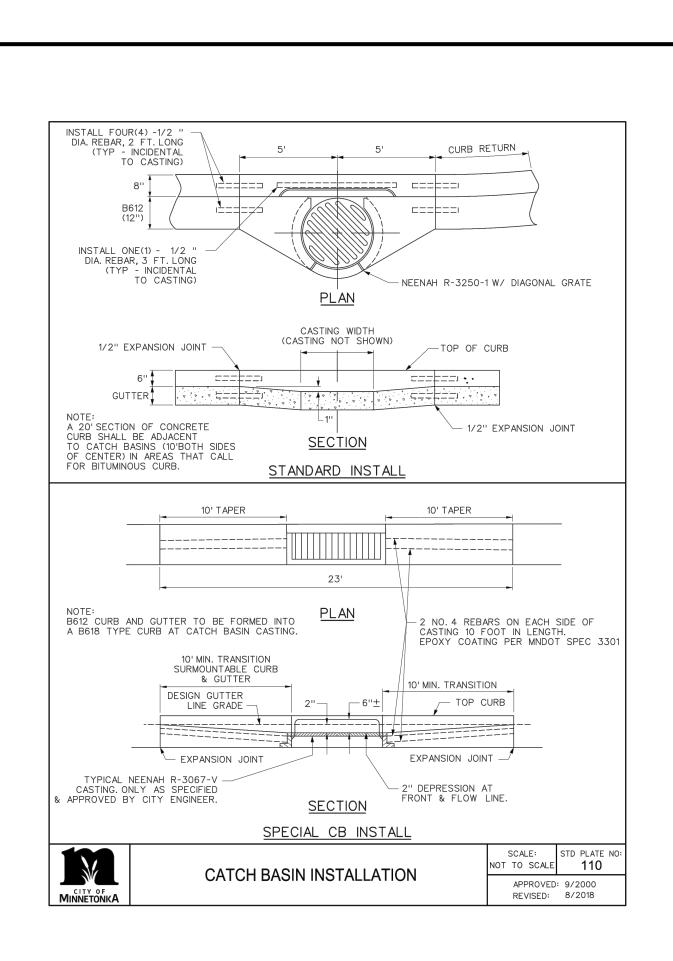


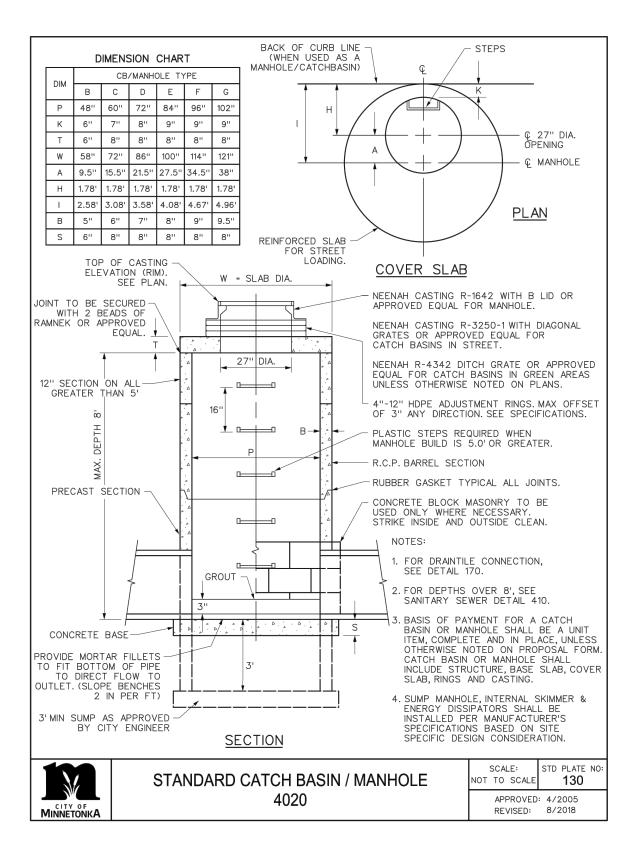
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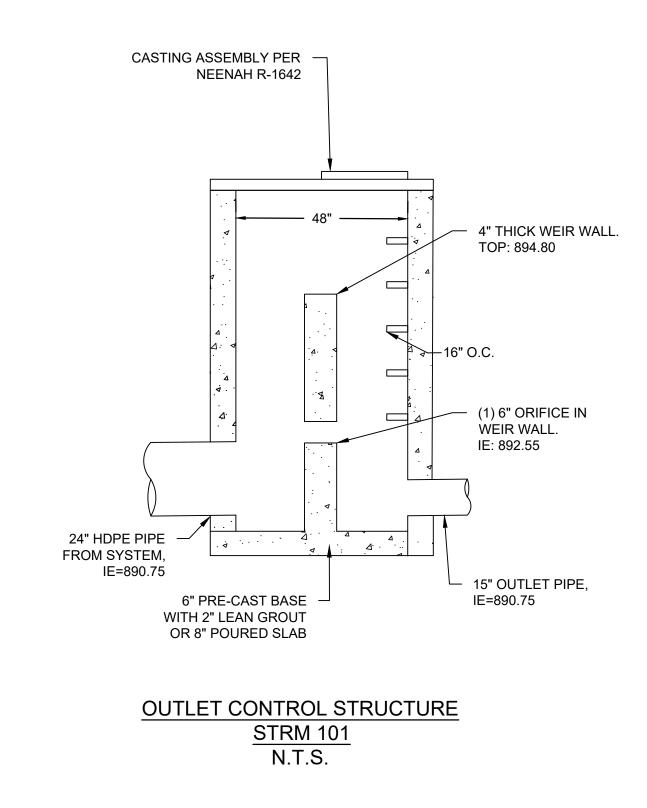
DRAINAGE SCHEDULE										
STRUCTURE NO.	DESCRIPTION	RIM/GRATE ELEVATION	INVERT ELEVATION IN	INVERT ELEVATION OUT						
ST-100	CONNECT TO EXISTING MH		E 888.88							
ST-101	STMH - OCS	897.24		W 890.66						
ST-200	CONNECT TO INFILTRATION SYSTEM	898.60	NE 893.10							
ST-201	СВМН	898.14	E 893.29	SW 893.29						
ST-202	СВМН	898.29	E 893.49	W 893.49						
ST-203	СВ	896.12		W 893.82						
ST-300	CONNECT TO INFILTRATION SYSTEM	900.43	S 893.91							
ST-301	СВМН	898.65	SE 894.06 E 897.07	N 894.06						
ST-302	CONNECT TO TRENCH DRAIN			W 897.30						
ST-303	СВМН	898.63	E 894.36	NW 894.36						
ST-304	STMH	899.92	NE 894.66	W 894.66						
ST-305	СВМН	898.82	NE 894.92	SW 894.92						
ST-306	СВМН	898.80		SW 895.21						
ST-400	CONNECT TO INFILTRATION SYSTEM		SE 893.10							
ST-401	СВ	899.00		NW 893.15						
ST-500	CONNECT TO INFILTRATION SYSTEM	898.94	SE 893.00							
ST-501	ROOF DRAIN			NE 893.80						

_E	GEND			
		PROPERTY LINE		
	<i>928</i>	EXISTING CONTOUR PROPOSED CONTOUR		
	925 D	PROPOSED CONTOUR PROPOSED STORM MANHOLE (SOLID CASTING)		
	•	PROPOSED STORM MANHOLE (ROUND INLET CASTING)		
		PROPOSED STORM MANHOLE/ CATCH BASIN (CURB INLET C	ASTING)	
		PROPOSED STORM SEWER CLENOUT PROPOSED FLARED END SECTION		
		PROPOSED RIPRAP		
	>	PROPOSED STORM SEWER		
		PROPOSED STORM SEWER PROPOSED SPOT ELEVATION		
	(100.00) (HP:0.0)	PROPOSED HIGH POINT ELEVATION		
	(LP:0.0) ×	PROPOSED LOW POINT ELEVATION		
	<u>G:0.00</u> ×	PROPOSED GUTTER ELEVATION PROPOSED TOP OF CURB ELEVATION		
	(T/G:0.0)	PROPOSED FOR OF CORB ELEVATION PROPOSED FLUSH PAVEMENT ELEVATION		
	(<u>ME:0.0</u>)	MATCH EXISTING ELEVATION		
	EOF:0.0	PROPOSED EMERGENCY OVERFLOW		4
	0.0%	PROPOSED DRAINAGE DIRECTION		V 551
	0.00%	PROPOSED ADA SLOPE		PAUL, MN 55114
3F				ASSOCI 0, ST. P 15-4197
	ALL WORK SHALL BE P	ERFORMED IN ACCORDANCE WITH THE CITY OF MINNETONKA,		RN AND AS SUITE 100, E: 651-645- MI FY-HOR
	CONTRACTOR TO CALL	BUILDING PERMIT REQUIREMENTS. GOPHER STATE CALL ONE @ <1-800-252-1166> AT LEAST TWO TO EXCAVATION/CONSTRUCTION FOR UTILITY LOCATIONS.		DITEX-HORN AND ASSOCIATION STITES THE TOO, ST. PAI PHONE: 651-645-4197
	STORM SEWER PIPE SH RCP PER ASTM	C-76		TIS S
	HDPE: 12" OR GF	R AASHTO M-252 REATER PER ASTM F-2306		
		SS SHALL BE AS FOLLOWS:		©©
	HDPE PER ASTM			
		-3034, JOINTS PER ASTM D-3212		
	UTILITIES AND TOPOGE	APHIC FEATURES PRIOR TO THE START OF SITE GRADING. THE IMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY		ARED BY A AND ONAL ATE OF
	HELP OFFSET ANY STA WHEN PLACING NEW S EXCAVATION SHALL BE	ON SHALL BE BACKFILLED IMMEDIATELY AFTER EXCAVATION TO BILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES. URFACE MATERIAL ADJACENT TO EXISTING PAVEMENT, THE BACKFILLED PROMPTLY TO AVOID UNDERMINING OF EXISTING		PLAN, VAS PREP, PERVISION PROFESI
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		XCAVATE DRAINAGE TRENCHES TO FOLLOW PROPOSED STORM		
	GRADES SHOWN ARE F	INISHED GRADES. CONTRACTOR SHALL ROUGH GRADE TO AND LEAVE STREET READY FOR SUBBASE.		BY O UNE SOT, SOT,
	UTILITY ITEMS, AND OT	, BITUMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDONED HER UNSTABLE MATERIALS SHALL BECOME THE PROPERTY OF O SHALL BE DISPOSED OF OFF THE CONSTRUCTION SITE.		
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1.	GUTTER WITH SMOOTH	ONSIBLE FOR CONSTRUCTION OF PAVEMENTS AND CURB AND I UNIFORM SLOPES TO PROVIDE POSITIVE DRAINAGE.		KHA PR 16028 12/20/ SCALE A· SCALE A· DESIGNED BY DRAWN BY
۷.	INSTALL A MINIMUM OF CONCRETE SIDEWALKS	<4" CLASS 5> AGGREGATE BASE UNDER CURB AND GUTTER ANE 3.	,	
3.	STREETS AND DISTURE	EXCAVATION AND FILLING, CONTRACTOR SHALL RESTORE ALL BED AREAS ON SITE. ALL DISTURBED AREAS SHALL BE MINIMUM OF <4" OF TOPSOIL>.		z
4.	ALL SPOT ELEVATIONS NOTED.	CONTOURS ARE TO GUTTER / FLOW LINE UNLESS OTHERWISE		
5.	DRIVEWAYS SHALL CO CASE SHALL ACCESSIE CASE SHALL SIDEWALK SIDEWALK SLOPES EXC	EWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING NFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO LE RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CROSS SLOPES EXCEED 2%. IN NO CASE SHALL LONGITUDINAL CEED 5%. IN NO CASE SHALL ACCESSIBLE PARKING STALLS OR 5% TARGET) IN ALL DIRECTIONS. SIDEWALK ACCESS TO EXTERNA		<u>Б</u>
	BUILDING DOORS AND ENGINEER IMMEDIATEL	GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY Y IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO OR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANC	E	ADIN
5.		F 0.5% GUTTER SLOPE TOWARDS LOW POINTS.	ЦК	
7.		/IDE 3" INSULATION BY 5' WIDE CENTERED ON STORM PIPE IF R IN PAVEMENT AREAS AND LESS THAN 3' OF COVER IN	° ONS ⁻	¹ СН
3.		DNNECTIONS AT THE BUILDING SHALL BE AT ELEVATION 895.00 O O OTHERWISE. REFERENCE MEP PLANS FOR ROOF DRAIN	R OOU	
).	ALL STORM SEWER CO MANHOLE CONNECTIO	NNECTIONS SHALL BE GASKETED AND WATER TIGHT INCLUDING NS.	10 ⁻	
0.	ALL STORM SEWER PIF PLUMBING CODE.	E SHALL BE AIR TESTED IN ACCORDANCE WITH THE CURRENT		H S N N
1.		F 1.25% SLOPE IN BITUMINOUS PAVEMENT AREAS, 0.5% SLOPE IN	, <u>O</u>	ĕ². ~
2.	WHERE PAVEMENT DR	EVIEW PAVEMENT GRADIENT AND CONSTRUCT "INFALL CURB" AINS TOWARD GUTTER, AND "OUTFALL" CURB WHERE PAVEMENT	∠ ' '	R W KA, CAF
3.		UTTER. AND FOUNDATION STONE IN THE UNDERGROUND INFILTRATION HED, CRUSHED ANGULAR STONE AND LIMESTONE IS NOT	PERMI	TER CA NNETON PREPARED MISTER WAS
		NORTH	FOR PI	MISTER (MINNET PREPA MISTE
		GRAPHIC SCALE IN FE		LSIM - NIM -
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		0 10 20	ר SSL	SHEET NUMBER

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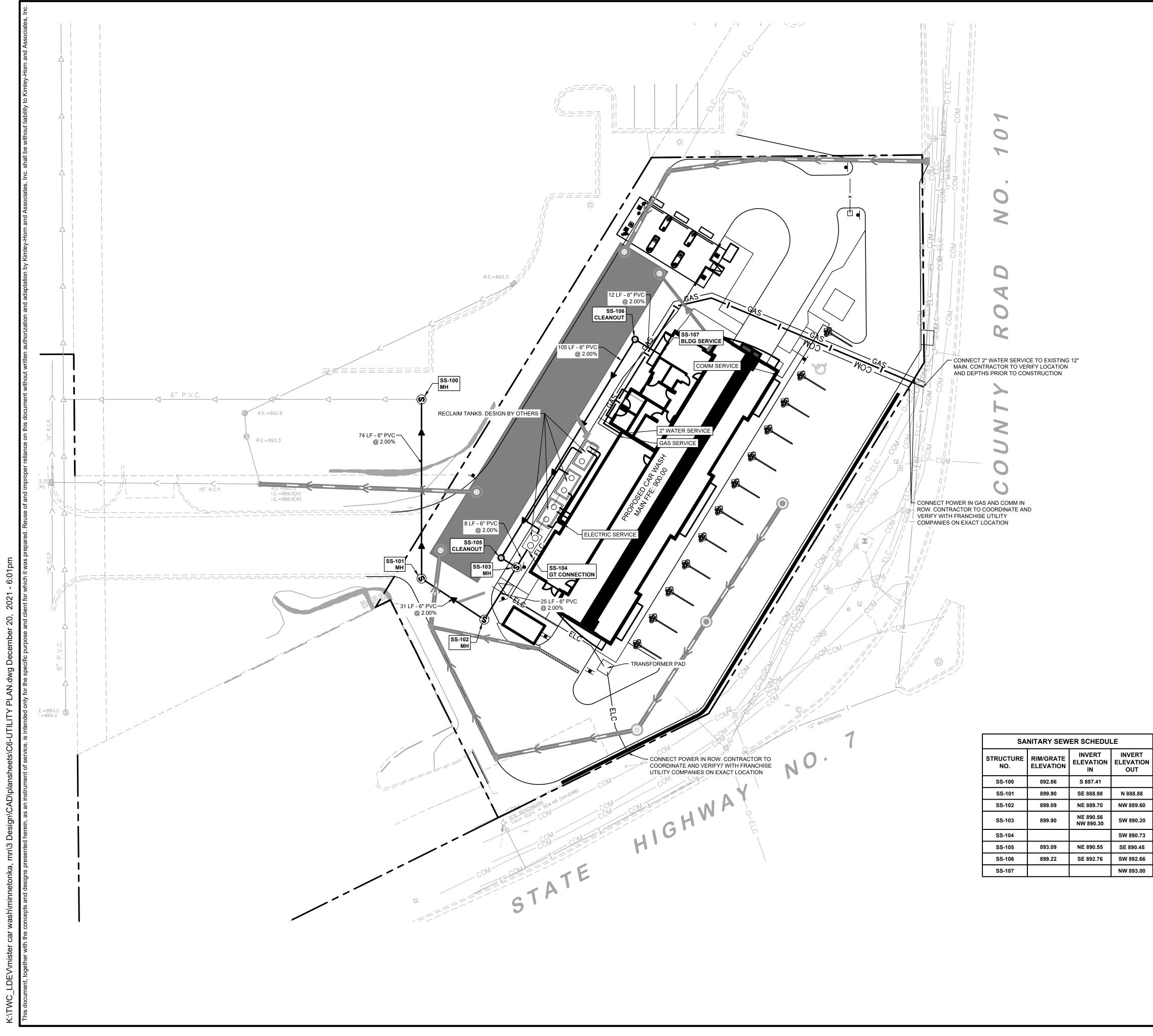






2									7
	MISTER CAR WASH		KHA PROJECT 160284002	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND					
SHEET C	NIN -		DATE 12/20/2021	THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.					
50'		GRADING DETAILS	SCALE AS SHOWN	Allin Dutte	2021 KIMLEY-HORN AND ASSOCIATES, INC.				
	MISIEK CAK		DESIGNED BY ACL		767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114				
-R	WASH		DRAWN BY AJW		PHONE: 651-645-4197				
	MINNETONKA		снескер ву WDM	WDM DATE: 12/20/2021 LIC. NO. 45790	WWW.KIMLEY-HORN.COM	No.	REVISIONS	DATE	ВΥ

ISSUED FOR PERMIT - NOT FOR CONSTRUCTION



2021 Ó mn\3 De WC_LDEV

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	>		 SANITARY SEWER STORM SEWER 				REVISIONS
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	ELC	——— ELC ——— ——— COM ———	UNDERGROUND ELECTRIC TELEPHONE				
	GAS	GAS	- GAS MAIN				
17	TILITY PLAN	NOTES					
	ALL FILL MATERIAL IS TO		IPACTED BEFORE INSTALLATION OF				No
	PROPOSED UTILITIES.						
	8" PVC SDR35 PER AS	TM D-3034, FOR PIPES I TM D-3034, FOR PIPES I PER ASTM D-1785	ESS THAN 12' DEEP			CIATES, INC. PAUL, MN 55114	
i.	WATER LINES SHALL BE 6" AND LARGER PVC	AS FOLLOWS: C-900 PER ASTM D 2241				S, ING	
	CLASS 200 UNDER CO	OUNTY ROADS, OTHERW	/ISE CLASS 150			CIATE PAUL	
		PING SHALL BE COPPER 200 P.S.I., PER ASTM D1				SSO(), ST. 5-4197	
	MINIMUM TRENCH WIDT	H SHALL BE 2 FEET.			\sim	RN AND ASSO SUITE 100, ST E: 651-645-419	2
		ESS STEEL OR COBALT	INTS WITH RESTRAINTS SUCH AS THRUST BLUE BOLTS, OR AS INDICATED IN THE TS.			EY-HORN AND ASSO (CEET, SUITE 100, ST. PHONE: 651-645-419	
•			(PARALLEL) OR WHEN CROSSING 18" TO OUTSIDE EDGE OF PIPE OR		nle	© 2021 KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 5 PHONE: 651-645-4197	• • • •
			"-5" COVER ON ALL WATERLINES.			© 20 767 EU	
	STORM LINES AND GAS SANITARY LINE SHALL B ON EITHER SIDE OF THE MECHANICAL JOINTS WI MINIMUM OF 18" VERTIC	LINES, OR ANY OBSTRU E SCH. 40 OR C900 WITH CENTER LINE OF THE C TH APPROPRIATE FAST AL SEPARATION. MEETII	EN WATER LINES, SANITARY LINES, CTION (EXISTING AND PROPOSED), THE I MECHANICAL JOINTS AT LEAST 10 FEET CROSSING. THE WATER LINE SHALL HAVE ENERS AS REQUIRED TO PROVIDE A NG REQUIREMENTS OF ANSI A21.10 OR		N		
	ANSI 21.11 (AWWA C-151 LINES UNDERGROUND S BACKFILLING.		SPECTED AND APPROVED BEFORE		RED BY AND VAL VTE OF		45790
		, AND TO BE ONE FOOT	ESSARY TO BE FLUSH WITH PROPOSED ABOVE FINISHED GROUND ELEVATIONS, IN		HIS PLAN, KT WAS PREPARED SUPERVISION AND ED PROFESSIONAL WS OF THE STATE (EK, P.E.	
1.	ALL CONCRETE FOR EN STRENGTH AT 3000 P.S.I		'E A MINIMUM 28 DAY COMPRESSION			MILLIAM D. MALA WILLIAM D. MATZEK, P.E. MN	LIC. NO.
		LL BE VERIFIED IN FIELD	PRIOR TO INSTALLATION OF ANY NEW			Ulla .	2021
		IMBING DRAWINGS FOR	TIE-IN OF ALL UTILITIES.				12/20/2021
	CONTRACTOR IS RESPC	NSIBLE FOR COMPLYIN R STATE OF MN WITH RI	G TO THE SPECIFICATIONS OF THE CITY EGARDS TO MATERIALS AND INSTALLATION		I HEREBY CE SPECIFICATI ME OR UNDE THAT I AM A ENGINEER U MINNIESOTA		DATE:
	OF EXISTING UTILITIES A VARIOUS UTILITY COMP. FIELD. THE INFORMATIO CONTRACTOR MUST CA BEFORE ANY EXCAVATIO BE THE RESPONSIBILITY	AS SHOWN ON THESE PI ANIES, AND WHERE POS N IS NOT TO BE RELIED LL THE APPROPRIATE U DN TO REQUEST EXACT OF THE CONTRACTOR	D THAT THE LOCATION AND/OR ELEVATION LANS IS BASED ON RECORDS OF THE SSIBLE, MEASUREMENTS TAKEN IN THE ON AS BEING EXACT OR COMPLETE. THE TILITY COMPANIES AT LEAST 72 HOURS FIELD LOCATION OF UTILITIES. IT SHALL TO RELOCATE ALL EXISTING UTILITIES /EMENTS SHOWN ON THE PLANS.		KHA PROJECT 160284002 DATE 12/20/2021	SCALE AS SHOWN DESIGNED BY ACL DRAWN BY AJW	СНЕСКЕД ВУ WDM
6.			SARY INSPECTIONS AND/OR UTILITY SERVICE COMPANIES.			DE SC	Ч
7.		OORDINATE WITH ALL U	FILITY COMPANIES FOR INSTALLATION				
8.	CONTRACTOR SHALL RE	FERENCE ARCH / MEP I	PLANS FOR SITE LIGHTING AND			PLAN	
9.		DCV AND PRZ ASSEMBLI	ES) AND METERS ARE LOCATED IN THE			4	
	INTERIOR OF THE BUILD						
0.	ALL ONSITE WATERMAIN MAINTAINED.	IS AND SANITARY SEWE	RS SHALL BE PRIVATELY OWNED AND	∠ O		•	
21.	ALL WATERMAIN STUBO BLOCKING.	UTS SHALL BE MECHAN	ICALLY RESTRAINED WITH REACTION	Ĩ		ITILITY	
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UNDISTURBED EARTH -

UNDISTURBED EARTH -

MINNETONKA

 CONCRETE THRUST BLOCK

8" CONCRETE BLOCK

WATERMAIN WET TAP

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- GATE VALVE

HDPE PIPE

UNDISTURBED EARTH

SCALE: STD PLATE N DT TO SCALE 530

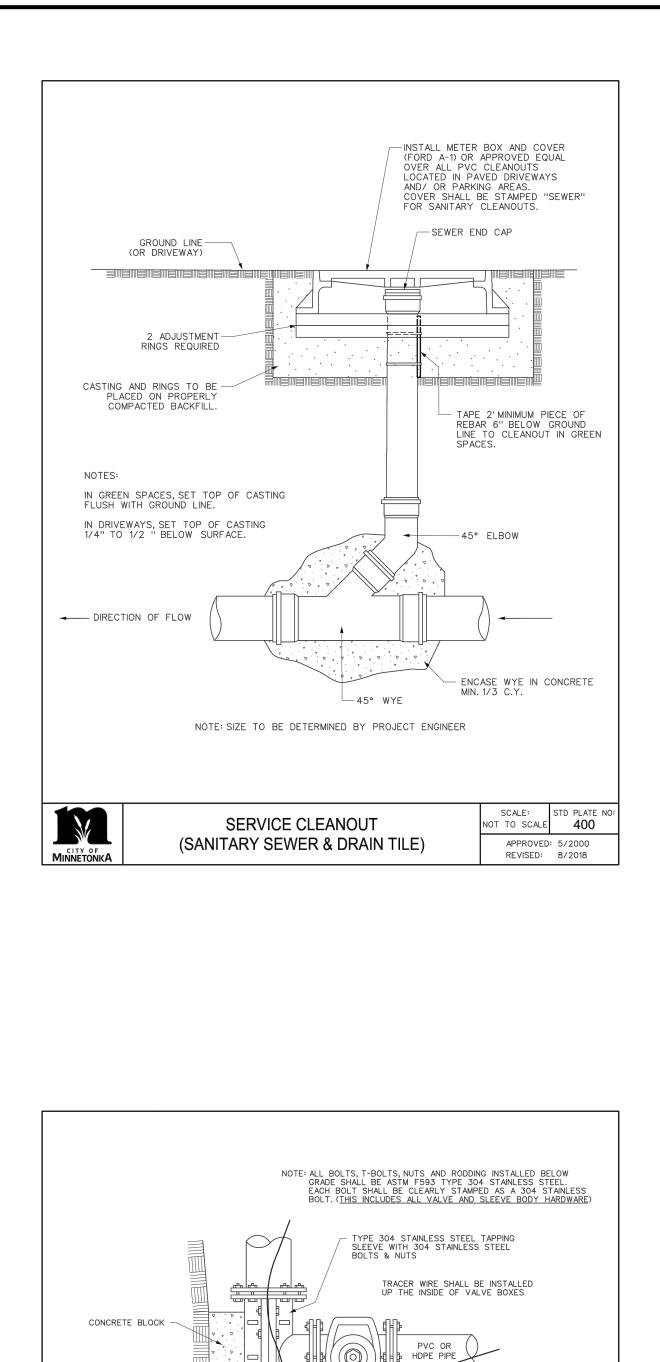
APPROVED: 12/2018

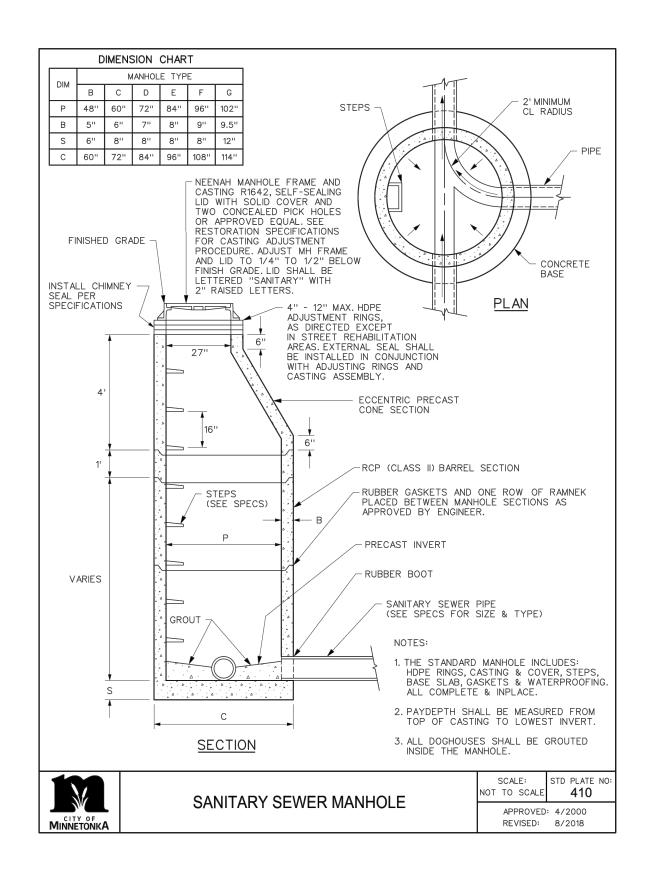
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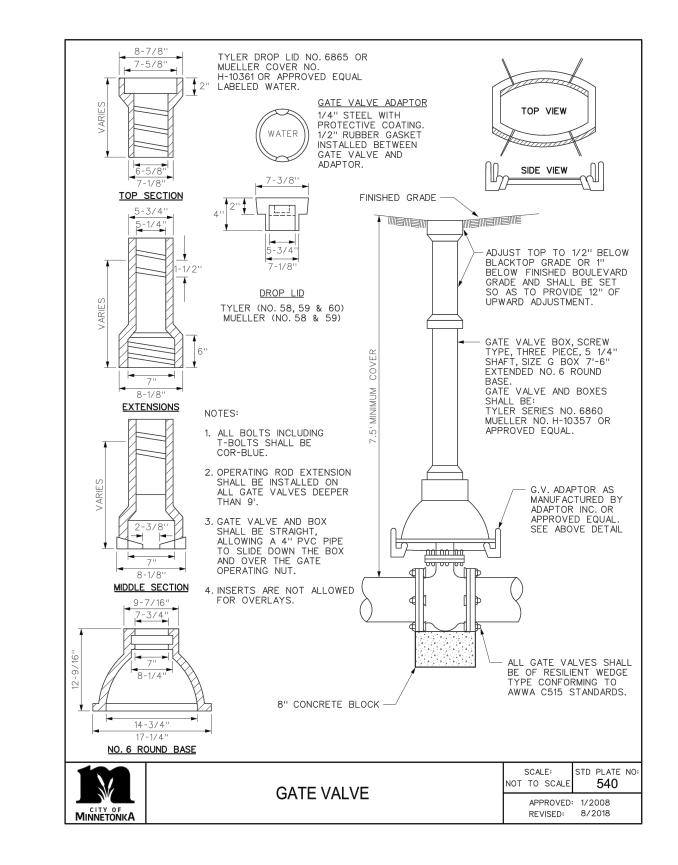
- COMPACTED GRANULAR BACKFILL OR ROCK

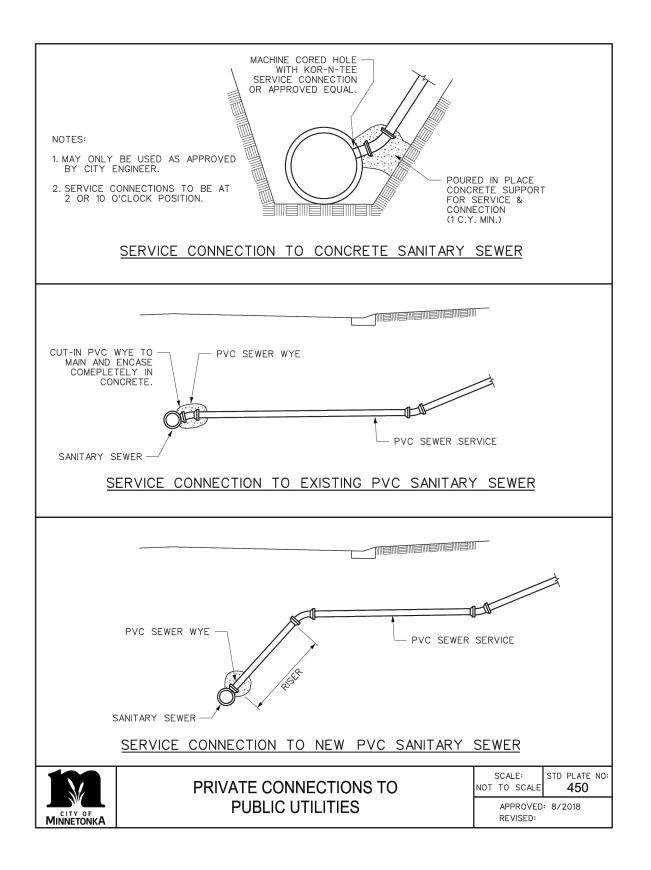
INSULATED TRACER WIRE -AS REQUIRED BY CITY (SEE DETAILS)

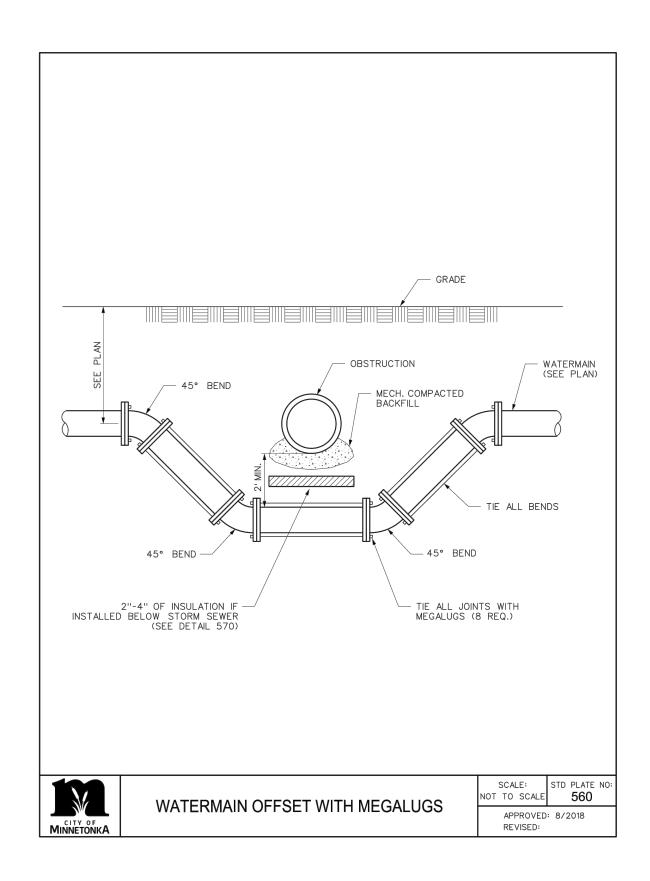


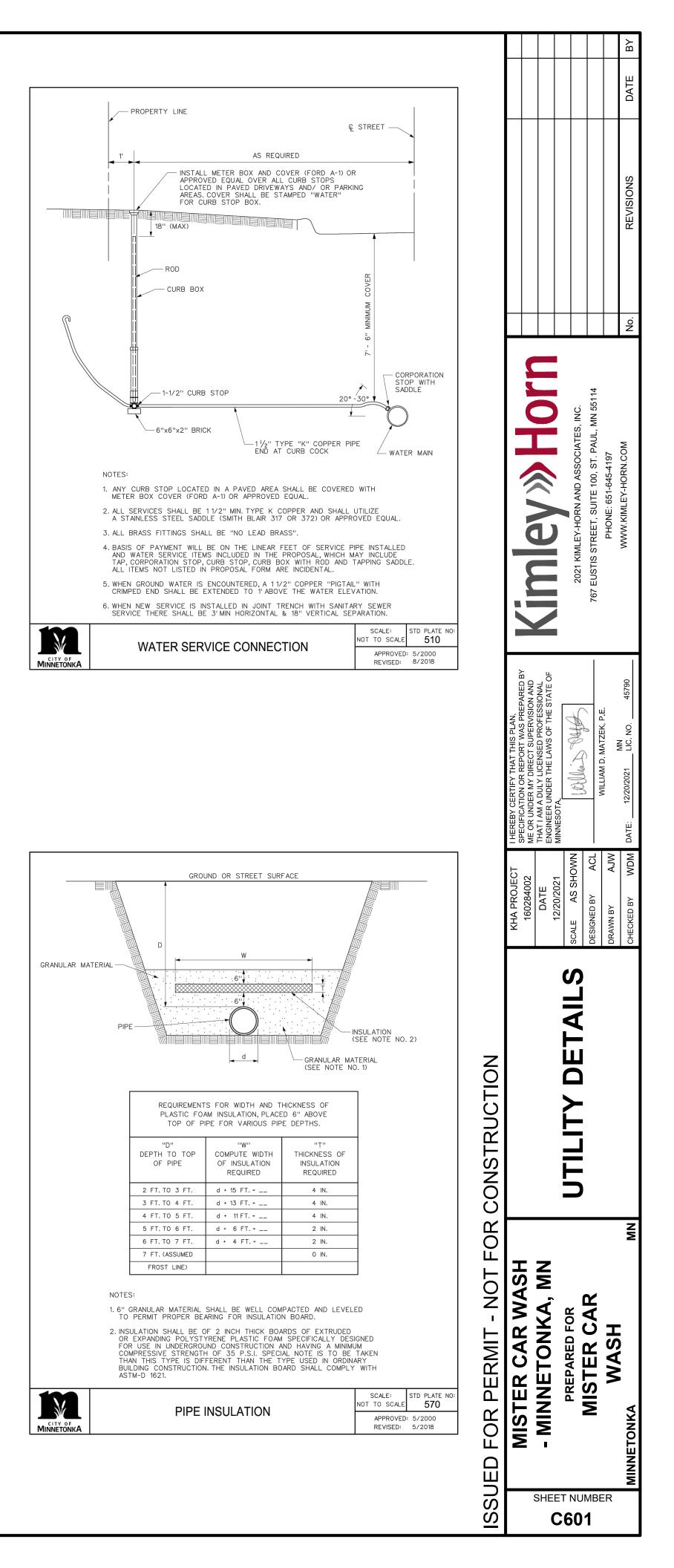


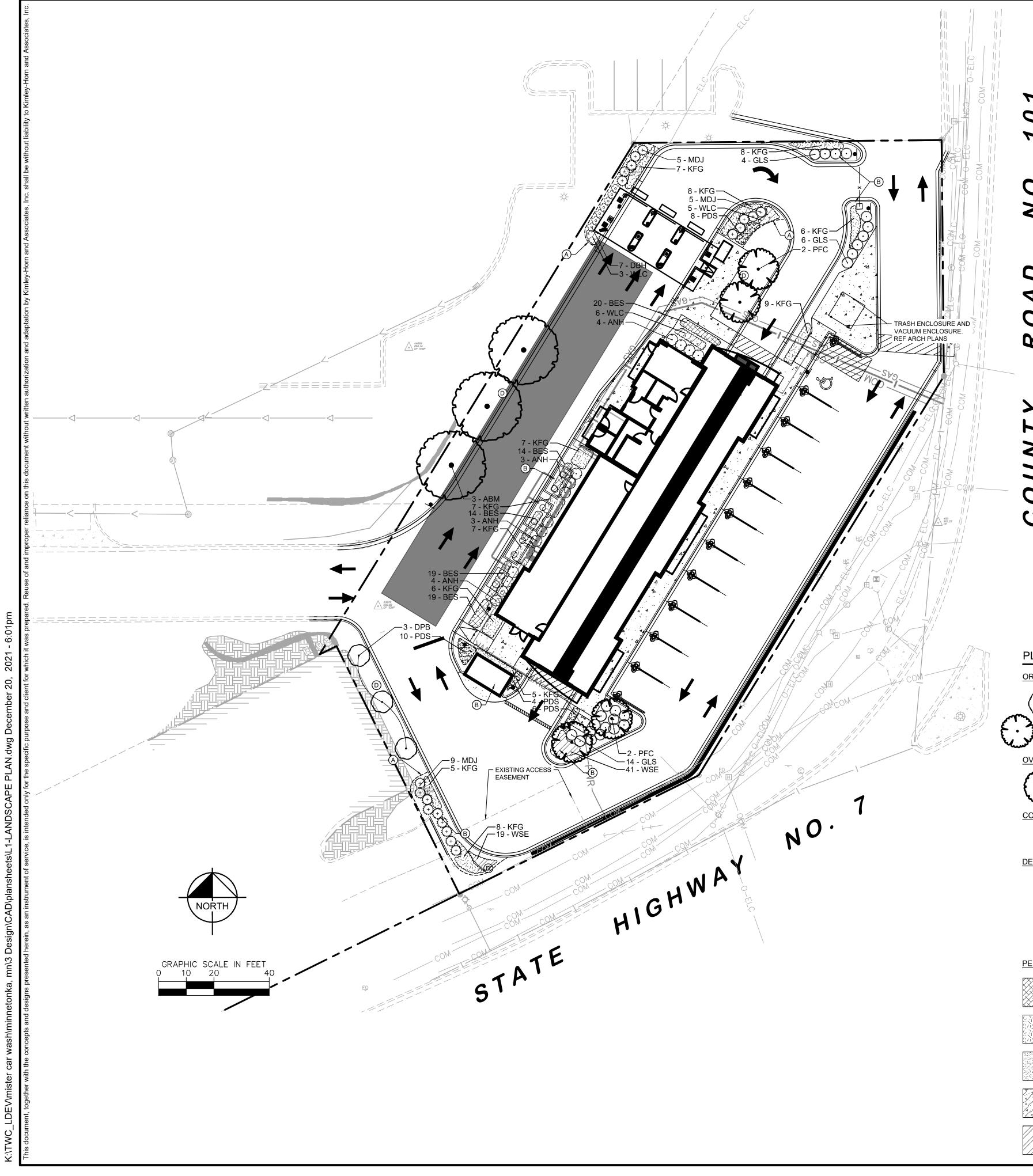






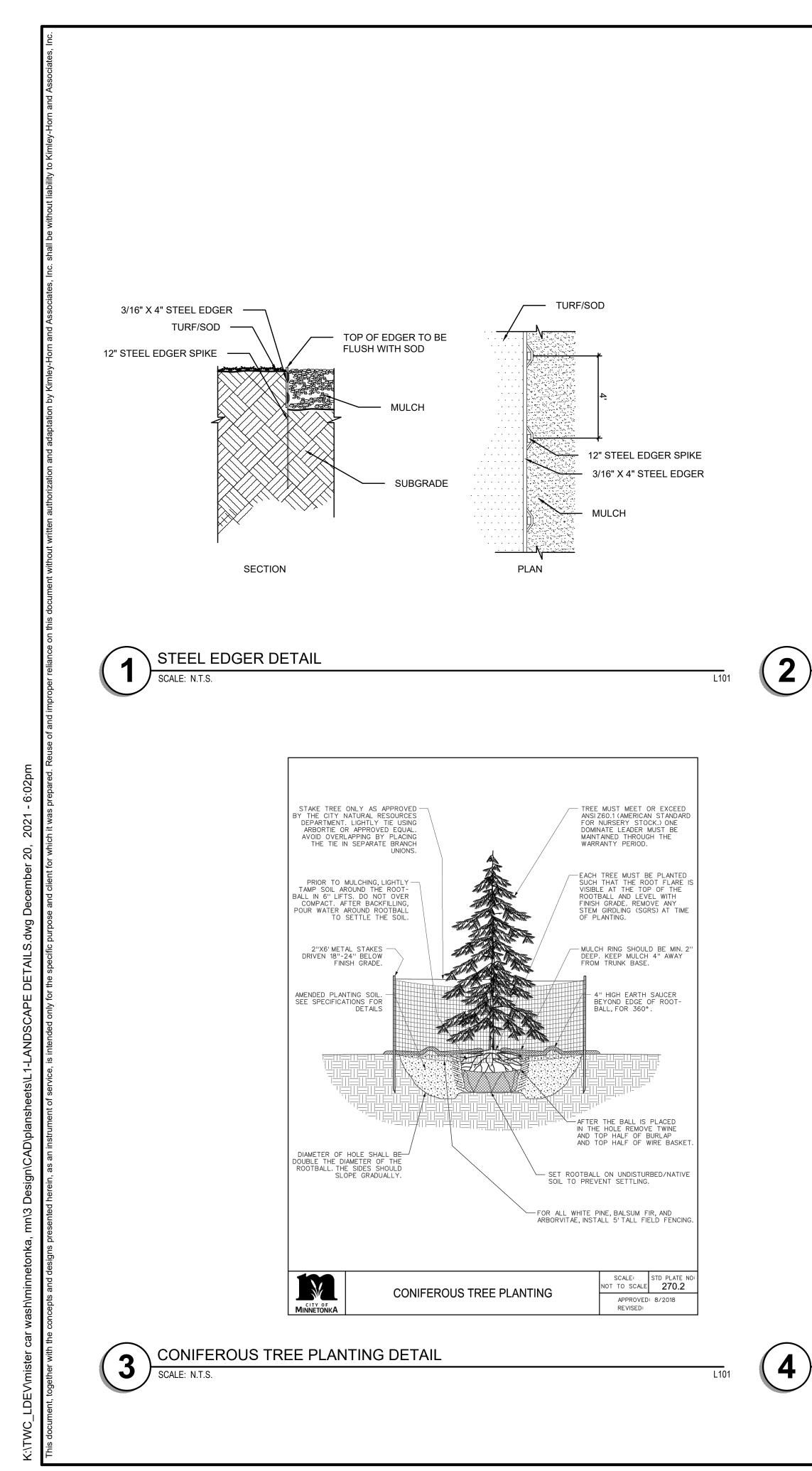


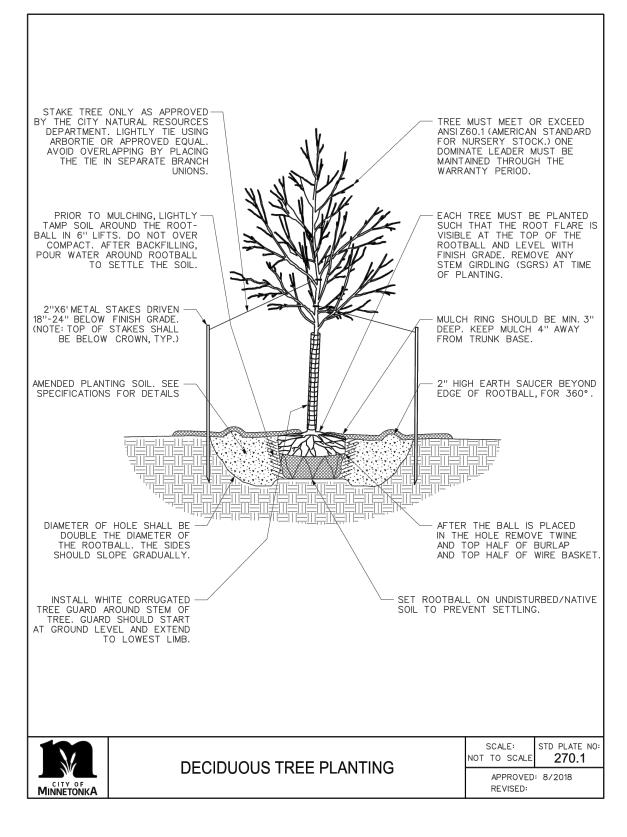




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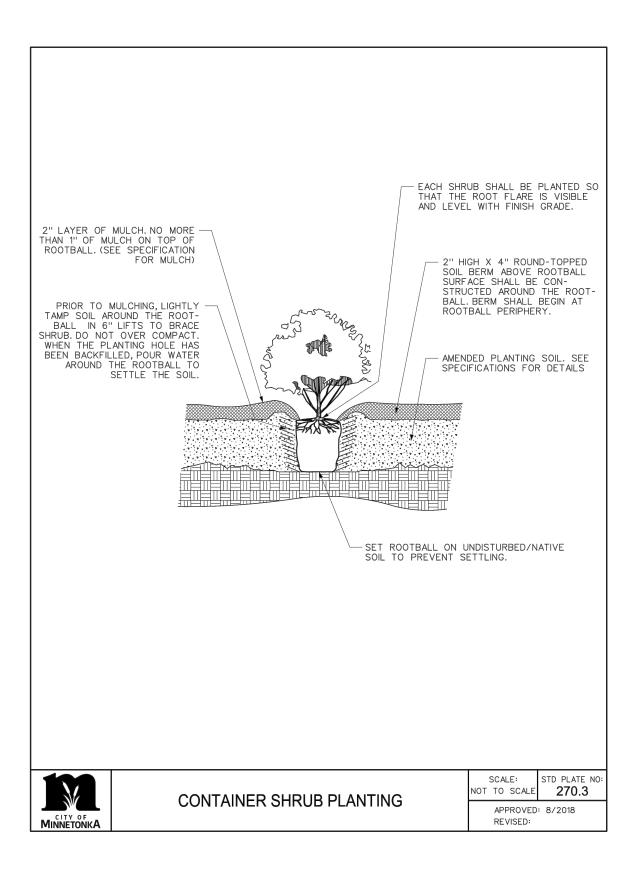
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2			-	EDGER (TYP.)					, o Z
				APPROXIMATE LIMITS OF SUSSION ALL DISTURBED AREAS		ON,			2
Q			ון	SEED/ SOD EDGE (TYP.)				E	4
A					$\overline{\mathbb{A}}$				100, ST. PAUL, MN 55114 645-4197 HORN.COM
0				EDGER (TYP.) DOUBLE SHREDDED HARDWOOD MULCH (TY	(P)			PHO	: PAUL, 97 COM
R			ő	ROCK MULCH (TYP.)	••••				E 100, ST. P I-645-4197 -HORN.CO
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`			E	MAINTENANCE STRIP (TYP.)					STREET, SU PHONE: (WWW.KIML
入			LANDSCAPE S				_ _	© 2021 KII	767 EUSTIS
2			<u>REQUIRED LANDSCAPE MI</u> PROJECT VALUE, INCLUDII	NIMUM VALUE IN CONFORMANCE WITH THE F	FOLLOWING T	ABLE:			767
2			BUILDING CONSTRUCTION SITE PREPARATION, AND S	I <u>.</u> SITE					
Õ			IMPROVEMENTS BELOW \$1,000,000	= 2%			RV		N
-			\$1,000,000 - \$2,000,000 \$2,000,000 - \$2,000,000	 \$20,000 + 1% OF PROJECT VAL \$30,000 + .75% OF PROJECT VA 					5652
C			\$2,000,000 - \$3,000,000 \$2,000,000 - \$3,000,000 OVER \$4,000,000	= \$37,500 + .25% OF PROJECT VA = 1%				PERVISIO	DOKAS NO.
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С			\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPO NATIVE PLANT LIST	= \$37,500 + .25% OF PROJECT VA = 1%	ALUE IN EXCE	SS OF \$3,000,		PARTICULATION OF A CONTRACT SUPERVISIO ADUY LICENSED PROFESS ARCHITECT UNDER THE LI OF MINNESOTA.	
S			\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPO NATIVE PLANT LIST	= \$37,500 + .25% OF PROJECT VA = 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN	ALUE IN EXCES	SS OF \$3,000, M THE CITY'S		The second secon	MU CO
С			\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPO NATIVE PLANT LIST *NO MORE THAN 25% OF T	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF 	ALUE IN EXCES	SS OF \$3,000, M THE CITY'S		WN WN WN WN WAR	MITCHELL G. CO MATE: 12/20/2021 LIC. N
U PLANT SCHEDULI			\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPO NATIVE PLANT LIST *NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED:	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN TREES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN 	ALUE IN EXCES	SS OF \$3,000, M THE CITY'S	0 T I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PRE	1002 E E 2021 S SHC	Y MGC DATE: 12/20/2021 LIC. N
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		<u>QTY</u> 3	\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPO NATIVE PLANT LIST *NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED:	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN TREES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN 	ALUE IN EXCES	SS OF \$3,000, M THE CITY'S	0 T I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PRE	160284 DATE 12/20/2 SCALE AS	MITCHELL G. CO MATE: 12/20/2021 LIC. N
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ORNAMENTAL TREE	CODE DPB PFC	3 4	\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPONATIVE PLANT LIST *NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BETULA PLATYPHYLLA 'FARGO' MALUS X 'PRAIRIFIRE'	 = \$37,500 + .25% OF PROJECT VA = 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE	ALUE IN EXCES NATORS FROM REENED YEAR CONT B & B B & B	SS OF \$3,000, M THE CITY'S <u>CAL/SIZE</u> 2" CAL. 2" CAL.	N KHA PROJECT I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PRE	E PLAN scale AS	Y MGC DATE: 12/20/2021 LIC. N
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ORNAMENTAL TREE	CODE DPB PFC CODE ABM	3 4 <u>QTY</u> 3	\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPONATIVE PLANT LIST *NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BETULA PLATYPHYLLA 'FARGO' MALUS X 'PRAIRIFIRE' BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE'	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLING REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN <u>COMMON NAME</u> DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE <u>COMMON NAME</u> AUTUMN BLAZE MAPLE 	ALUE IN EXCES NATORS FROM REENED YEAR	SS OF \$3,000, M THE CITY'S <u>CAL/SIZE</u> 2" CAL. 2" CAL. <u>CAL/SIZE</u> 2.5" CAL.	UCTION KHA PROJECT I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS DRE	CAPE PLAN SCALE AS	Y MGC DATE: 12/20/2021 LIC. N
ORNAMENTAL TREE	CODE DPB PFC CODE ABM CODE MDJ	3 4 <u>QTY</u> 3 <u>QTY</u> 19 <u>QTY</u>	\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPONATIVE PLANT LIST *NO MORE THAN 25% OF TORE SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE' BOTANICAL NAME JUNIPERUS SCOPULORUM 'MEDORA' BOTANICAL NAME	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE COMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER COMMON NAME	ALUE IN EXCES NATORS FROM REENED YEAR B & B B & B B & B CONT B & B <u>CONT</u> B & B <u>CONT</u> #5 CONT. <u>CONT</u>	SS OF \$3,000, M THE CITY'S CAL/SIZE 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2.5" CAL. SPACING 4` O.C. SPACING	TRUCTION KHA PROJECT I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PRE-	DSCAPE PLAN SCALE AS	Y MGC DATE: 12/20/2021 LIC. N
ORNAMENTAL TREE	CODE DPB PFC CODE ABM <u>CODE</u> MDJ	3 4 <u>QTY</u> 3 <u>QTY</u> 19	\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPONATIVE PLANT LIST *NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BETULA PLATYPHYLLA 'FARGO' MALUS X 'PRAIRIFIRE' BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE' BOTANICAL NAME JUNIPERUS SCOPULORUM 'MEDORA'	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME QMMON NAME QMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER	ALUE IN EXCES NATORS FROM REENED YEAR B & B B & B B & B <u>CONT</u> B & B <u>CONT</u> B & B <u>CONT</u> #5 CONT.	SS OF \$3,000, M THE CITY'S <u>CAL/SIZE</u> 2" CAL. 2" CAL. <u>CAL/SIZE</u> 2.5" CAL. <u>SPACING</u> 4` O.C.	TRUCTION KHA PROJECT I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PRE-	SCAPE PLAN SCALE AS SCALE AS	Y MGC DATE: 12/20/2021 LIC. N
ORNAMENTAL TREE	CODE DPB PFC CODE ABM CODE MDJ	3 4 <u>QTY</u> 3 <u>QTY</u> 19 <u>QTY</u>	\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPONATIVE PLANT LIST *NO MORE THAN 25% OF TORE SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE' BOTANICAL NAME JUNIPERUS SCOPULORUM 'MEDORA' BOTANICAL NAME	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE COMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER COMMON NAME	ALUE IN EXCES NATORS FROM REENED YEAR B & B B & B B & B CONT B & B <u>CONT</u> B & B <u>CONT</u> #5 CONT. <u>CONT</u>	SS OF \$3,000, M THE CITY'S CAL/SIZE 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2.5" CAL. SPACING 4` O.C. SPACING	CONSTRUCTION KHA PROJECT I HEREBY CERTIFY THIS PLAN, SPECIFICATION OR REPORT WAS DRE	DSCAPE PLAN SCALE AS	DESIGNED BY CFK MITCHELL G. CO DRAWN BY CFK MITCHELL G. CO CHECKED BY MGC DATE: 12/20/2021 LIC. N
ORNAMENTAL TREE	CODE DPB PFC CODE ABM CODE MDJ CODE ANH	3 4 <u>QTY</u> 3 <u>QTY</u> 19 <u>QTY</u> 14	\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPONATIVE PLANT LIST *NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BETULA PLATYPHYLLA 'FARGO' MALUS X 'PRAIRIFIRE' BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE' BOTANICAL NAME JUNIPERUS SCOPULORUM 'MEDORA' BOTANICAL NAME HYDRANGEA ARBORESCENS 'ANNABELLE'	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLING REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE COMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER COMMON NAME ANNABELLE HYDRANGEA 	ALUE IN EXCES NATORS FROM REENED YEAR B & B B & B CONT B & B <u>CONT</u> B & B <u>CONT</u> #5 CONT. <u>CONT</u> #5 CONT.	SS OF \$3,000, M THE CITY'S 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2" CAL. <u>SPACING</u> 4` O.C. <u>SPACING</u> 4` O.C.	FOR CONSTRUCTION KHA PROJECT I HEREBY CERTIFY THIS PLAN, SPECIFICATION OR REPORT WAS DRE	LANDSCAPE PLAN SCALE AS SCALE AS SCALE AS SCALE AS	Y MGC DATE: 12/20/2021 LIC. N
ORNAMENTAL TREE	CODE DPB PFC CODE ABM CODE MDJ CODE ANH DBH	3 4 <u>QTY</u> 3 <u>QTY</u> 19 <u>QTY</u> 14	\$2,000,000 - \$3,000,000 OVER \$4,000,000 'AT LEAST 25% OF PROPONATIVE PLANT LIST 'NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BETULA PLATYPHYLLA 'FARGO' MALUS X 'PRAIRIFIRE' BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE' BOTANICAL NAME JUNIPERUS SCOPULORUM 'MEDORA' BOTANICAL NAME HYDRANGEA ARBORESCENS 'ANNABELLE' DIERVILLA LONICERA	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE COMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER COMMON NAME ANNABELLE HYDRANGEA DWARF BUSH HONEYSUCKLE 	ALUE IN EXCES NATORS FROM REENED YEAR B & B B & B CONT B & B <u>CONT</u> B & B <u>CONT</u> #5 CONT. #5 CONT. #5 CONT.	SS OF \$3,000, M THE CITY'S CAL/SIZE 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2" CAL. <u>SPACING</u> 4` O.C. <u>SPACING</u> 4` O.C. 3` O.C.	FOR CONSTRUCTION KHA PROJECT I HEREBY CERTIFY THIS PLAN, SPECIFICATION OR REPORT WAS DRE	LANDSCAPE PLAN SCALE AS SCALE AS SCALE AS SCALE AS	MICHELL G. CO DRAWN BY CFK MITCHELL G. CO CHECKED BY MGC DATE: 12/20/2021 LIC. N
ORNAMENTAL TREE	CODE DPB PFC CODE ABM CODE MDJ CODE ANH DBH GLS	3 4 <u>QTY</u> 3 <u>QTY</u> 19 <u>QTY</u> 14 7 24	\$2,000,000 - \$3,000,000 OVER \$4,000,000 *AT LEAST 25% OF PROPONATIVE PLANT LIST *NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BETULA PLATYPHYLLA 'FARGO' MALUS X 'PRAIRIFIRE' BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE' BOTANICAL NAME JUNIPERUS SCOPULORUM 'MEDORA' BOTANICAL NAME HYDRANGEA ARBORESCENS 'ANNABELLE' DIERVILLA LONICERA RHUS AROMATICA 'GRO-LOW'	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE COMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER COMMON NAME ANNABELLE HYDRANGEA DWARF BUSH HONEYSUCKLE GRO-LOW FRAGRANT SUMAC 	ALUE IN EXCES NATORS FROM REENED YEAR D & D D & D &	SS OF \$3,000, M THE CITY'S CAL/SIZE 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2" CAL. <u>SPACING</u> 4` O.C. <u>SPACING</u> 4` O.C. 3` O.C.	- NOT FOR CONSTRUCTION KHA PROJECT I HEREBY CERTIFY THIS PLAN.	CA, MN LANDSCAPE PLAN DR 12/20/2	MICHELL G. CO DRAWN BY CFK MITCHELL G. CO CHECKED BY MGC DATE: 12/20/2021 LIC. N
ORNAMENTAL TREE	CODE DPB PFC CODE ABM CODE MDJ CODE ANH GLS CODE	3 4 <u>QTY</u> 3 <u>QTY</u> 19 <u>QTY</u> 14 7 24 <u>QTY</u>	\$2,000,000 - \$3,000,000 OVER \$4,000,000 'AT LEAST 25% OF PROPONATIVE PLANT LIST 'NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BETULA PLATYPHYLLA 'FARGO' MALUS X 'PRAIRIFIRE' BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE' BOTANICAL NAME JUNIPERUS SCOPULORUM 'MEDORA' BOTANICAL NAME HYDRANGEA ARBORESCENS 'ANNABELLE' DIERVILLA LONICERA RHUS AROMATICA 'GRO-LOW' BOTANICAL NAME	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE COMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER COMMON NAME ANNABELLE HYDRANGEA DWARF BUSH HONEYSUCKLE GRO-LOW FRAGRANT SUMAC COMMON NAME 	ALUE IN EXCES NATORS FROM REENED YEAR CONT B & B CONT B & B CONT B & B CONT #5 CONT. #5 CONT. #5 CONT. #5 CONT. #5 CONT.	SS OF \$3,000, M THE CITY'S CAL/SIZE 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2" CAL. <u>SPACING</u> 4` O.C. <u>SPACING</u> 4` O.C. 3` O.C.	T - NOT FOR CONSTRUCTION R WASH KHA PROJECT I HEREBY CERTIFY THIS PLAN.	TONKA, MN ARED FOR CALE AS CALE AS CALE AS	LEK CAR Designed by CFK MITCHELL G. CO VASH MN CHECKED BY MGC DATE: 12/20/2021 UN
ORNAMENTAL TREE	CODE DPB PFC CODE ABM CODE MDJ CODE ANH DBH GLS CODE BES	3 4 <u>QTY</u> 3 <u>QTY</u> 19 <u>QTY</u> 14 7 24 <u>QTY</u> 86	\$2,000,000 - \$3,000,000 OVER \$4,000,000 "AT LEAST 25% OF PROPO NATIVE PLANT LIST "NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED: BOTANICAL NAME BETULA PLATYPHYLLA 'FARGO' MALUS X 'PRAIRIFIRE' BOTANICAL NAME ACER X FREEMANII 'AUTUMN BLAZE' BOTANICAL NAME JUNIPERUS SCOPULORUM 'MEDORA' BOTANICAL NAME HYDRANGEA ARBORESCENS 'ANNABELLE' DIERVILLA LONICERA RHUS AROMATICA 'GRO-LOW' BOTANICAL NAME RUDBECKIA FULGIDA 'GOLDSTURM'	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE COMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER COMMON NAME ANNABELLE HYDRANGEA DWARF BUSH HONEYSUCKLE GRO-LOW FRAGRANT SUMAC COMMON NAME BLACK-EYED SUSAN 	ALUE IN EXCES NATORS FROM REENED YEAR CONT B & B CONT B & B CONT B & B CONT B & B CONT #5 CONT. #5 CONT. #5 CONT. #5 CONT. #5 CONT. 18" o.c.	SS OF \$3,000, M THE CITY'S CAL/SIZE 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2" CAL. <u>SPACING</u> 4` O.C. <u>SPACING</u> 4` O.C. 3` O.C.	R R <td>PREPARED FOR LANDSCAPE PLAN SCALE AS COLE AS C</td> <td>WISTERCAR WASH MASH MN MICHELLG.CO</td>	PREPARED FOR LANDSCAPE PLAN SCALE AS COLE AS C	WISTERCAR WASH MASH MN MICHELLG.CO
ORNAMENTAL TREE	CODE DPB PFC CODE ABM CODE MDJ CODE ANH GLS CODE BES KFG	3 4 <u>QTY</u> 3 <u>QTY</u> 19 <u>QTY</u> 14 7 24 <u>QTY</u> 86 83	\$2,000,000 - \$3,000,000 OVER \$4,000,000 "AT LEAST 25% OF PROPO NATIVE PLANT LIST "NO MORE THAN 25% OF T SCREENING REQUIRED: SCREENING PROVIDED: SCREENING PROVIDED:	 \$37,500 + .25% OF PROJECT VA 1% SED PLANTS MUST BE BENEFICIAL TO POLLIN REES REQUIRED FROM 1 SPECIES TRASH EQUIPMENT TO BE SCF ROUND FROM PUBLIC VIEW SEE PLAN COMMON NAME DAKOTA PINNACLE BIRCH PRAIRIFIRE CRAB APPLE COMMON NAME AUTUMN BLAZE MAPLE COMMON NAME MEDORA JUNIPER COMMON NAME MEDORA JUNIPER COMMON NAME ANNABELLE HYDRANGEA DWARF BUSH HONEYSUCKLE GRO-LOW FRAGRANT SUMAC COMMON NAME BLACK-EYED SUSAN KARL FOERSTER FEATHER REED GRASS 	ALUE IN EXCES NATORS FROM REENED YEAR CONT B & B B & B CONT B & B CONT B & B CONT #5 CONT. #5 CONT. #5 CONT. #5 CONT. #5 CONT. 30" o.c. 30" o.c.	SS OF \$3,000, M THE CITY'S CAL/SIZE 2" CAL. 2" CAL. 2" CAL. 2" CAL. 2" CAL. <u>SPACING</u> 4` O.C. <u>SPACING</u> 4` O.C. 3` O.C.	T - NOT FOR CONSTRUCTION R WASH KHA PROJECT I HEREBY CERTIFY THIS PLAN.	PREPARED FOR LANDSCAPE PLAN SCALE AS COLE AS C	LEK CAR Designed by CFK MITCHELL G. CO VASH MN CHECKED BY MGC DATE: 12/20/2021 UN





DECIDUOUS TREE PLANTING DETAIL

SCALE: N.T.S.



CONTAINER SHRUB PLANTING DETAIL

SCALE: N.T.S.

L101

L101

 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 	CONTRACTOR SHALL CONTACT COMMON GROUND ALLIANCE AT 811 OR CALLB11.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBBILSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE ARCHITECT PRIOR TO SUBBILSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE ARCHITECTS OR OWNER'S WRITTEN ACCEPTANCE OF THE INITLA PLANTING. REPLACEMENT PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECTS OR OWNER'S WRITTEN ACCEPTANCE OF THE INITLA PLANTING. REPLACEMENT PLANT MATERIALS HALL GUARANTEE DEGINS ON THE DATE OF THE LANDSCAPE ARCHITECTS OR OWNER'S WRITTEN ACCEPTANCE OF THE INITLA PLANTING. REPLACEMENT PLANT MATERIALS SHALL ANE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING. ALL PLANTS SHALL BE FREE FROM NOTICABLE GAPS, HOLS, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM NOTICABLE GAPS, HOLS, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM MOREABLE GAPS, HOLS, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM MOREABLE GAPS, NOLS, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM MOREABLE GAPS STOCK (ANSI 260.1-2014 OR MOST CONFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 53. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI 260.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY, TEMPORARY ONLY. PROR TO PLANTING, FLED VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED AS BURAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED A BURLAP TREE IS PLANTED, THE NOP COLLAR/ROOT FLAIR SHALL BE VERY OR SILONTING PRACTICE. PLANTING SECONT FLAIR SHALL BE VERY OR SILONTING PRACTIC	T IHEREBY CERTIFY THAT THIS PLAN. T SPECIFICATION OR REPORT WAS PREPARED BY THAT IAN WAS PREPARED BY ME OR UNDER WY DIRECT SUPERVISION AND THAT IAN WAS PREPARED BY ME OR UNDER WY DIRECT SUPERVISION AND THAT IAN WAS PREPARED BY ME OR UNDER WY DIRECT SUPERVISION AND THAT IAN WAS AREA PROFILESIONAL INTROPER AREA ITED WAS PROFILED OF MARKET SUPERVISION AND THAT AN WAS AREA AREA THE LAWS OF INTROPER AREA THE LAWS OF TOWN MICHELL G. COKAS, PLAN MICHELL G. COKAS, PLAN DAUL, ME 514 MICHELL G. COKAS, PLAN PHONE: 651-645-4197
 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 	NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECTS OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING. ALL PLANTS TO BE SPECIMEN GRADE, MINNESOTA-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS: ALL PLANTS SHALL BE FREE FROM INSTEASE, PESTS, WOUNDS, SCARS, ETC. ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. ALL PLANTS SHALL HAVE HEAVY. HEALTHY BRANCHING AND LEAFING. CONFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI 260.1-2014 OR MOST CURRENT VERSION, REQUIREMENTS FOR SIZE AND TYPE SPECIFIED. PLANTS TO BE INSTALLED AS PER MILA & ANSI STANDARD PLANTING PRACTICES. PLANTS SHALL BE MMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS FI NECESSARY. TEMPORARY ONLY. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOLIS SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE SPLANTED, THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE SPLANTED, THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE SPLANTED, THE ROOT COLLAR/ROOT FLAIR. SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE. OPEN TOP OF BURLAP ON BB MATERIALS; REMO	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION OR REPORT WAS PREPARED BY SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTAL MN MN MICHELL G. COOKAS, PLA MICHELL G. COOKAS, PLA MICHELL G. COOKAS, PLA
 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 	COMPLETED IN THE IMMEDIATE AREA. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE ARCHITECTS OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIALS HALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING. ALL PLANTS TO BE SPECIMEN GRADE, MINNESOTA-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS: ALL PLANTS SHALL BE FREE FROM INSEASE, PESTS, WOUNDS, SCARS, ETC. ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES. ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING. CONFERCING STREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI 260.1-2014 OR MOST CURRENT VERSION), REQUIREMENTS FOR SIZE AND TYPE SPECIFED. PLANTS TO BE INSTALLED AS PER MNLA & ANSI STANDARD PLANTING PRACTICES. PLANTS TO BE INSTALLED AS PER MNLA & ANSI STANDARD PLANTING PRACTICES. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY, TEMPORARY ONLY. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLARROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLARROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLARROOT FLAIR SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS. PRUNE PLANTIS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES. WRAP ALL SMOOTH-BARK	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION OR REPORT WAS PREPARED BY SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTAL MN MN MICHELL G. COOKAS, PLA MICHELL G. COOKAS, PLA MICHELL G. COOKAS, PLA
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECTS OR OWNER'S WRITTEN ACCEPTANCE OF THE INTIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING. ALL PLANTS TO BE SPECIMEN GRADE, MINNESOTA-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHER TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS: ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC. ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. ALL PLANTS SHALL AVE HEAVY, HEALTHY BRANCHING AND LEAFING. CONFERCUS THESS SHALL HAVE MENTS FOR SIZE AND TYPE SPECIFIED. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z20.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED. PLANTS TO BE INSTALLED AS PER MILA & ANSI STANDARD PLANTING PRACTICES. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY; TEMPORARY ONLY. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR. SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION OR REPORT WAS PREPARED BY SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTAL MN MN MICHELL G. COOKAS, PLA MICHELL G. COOKAS, PLA MICHELL G. COOKAS, PLA
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13.14.15.16.17.	 POOR BRANCHING OF EXISTING AND PROPOSED TREES. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS. BACKFILL SOIL AND TOPSOIL TO ADHERE TO A MODIFIED MN/DOT STANDARD SPECIFICATION 3877 (SELECT TOPSOIL BORROW) TO INCLUDE AT A MINIMUM 5% ORGANIC MATERIAL AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL IN 	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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA. MN MITCHELL G. COOKAS, PLA MITCHELL G. COOKAS, PLA
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10.	MINIMUM 3" DEPTH, OR APPROVED EQUAL. ROCK MULCH TO BE ON COMMERCIAL GRADE FILTER FABRIC, BY TYPAR, OR APPROVED EQUAL WITH NO EXPOSURE. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE). EDGING TO BE COMMERCIAL GRADE COL-MET (OR EQUAL) STEEL EDGING; 3/16" THICK, COLOR	KHA PROJECT 160284002 DATE 12/20/2021 SCALE AS SHOWN DESIGNED BY KHA
	BLACK, OR SPADED EDGE, AS INDICATED. STEEL EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH TOP OF EDGER AT GRADE, FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).	APE -S
19.	ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. SOD TO BE STANDARD MINNESOTA GROWN AND HARDY BLUEGRASS MIX, FREE OF LAWN WEEDS. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED. SEED AS SPECIFIED AND PER MN/DOT SPECIFICATIONS. IF NOT INDICATED ON LANDSCAPE PLAN, SEE EROSION CONTROL PLAN.	ANDSCAI DETAILS
20.	PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.	CONS
21.	CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.	H N N N N N N N N N N N N N N N N N N N
22.	REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.	- NOT WASI A, MI
23.	REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.	
24.	MAINTAIN TREES, SHRUBS, AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD; 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 45 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECITES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.	D FOR PERMI MISTER CA - MINNETON PREPARED MISTER
25.	SEE ELECTRICAL PLANS FOR SITE LIGHTING.	SHEET NUMBER



MINNETONKA, MN

HYDROSTOR HS180 STORMWATER CHAMBER SYSTEM

STORMWATER CHAMBER SPECIFICATIONS

- 1. CHAMBERS SHALL BE HYDROSTOR HS180 OR APPROVED EQUIVALENT.
- 2. CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- 3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LEFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- 5. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-12, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS."
- 6. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
- A. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
- B. A STRUCTURAL EVALUATION SEAL BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO CERTIFY LONG-TERM PERFORMANCE.
- C. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- 7. CHAMBERS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

NOTES:

- 1. PRIOR TO BEGINNING INSTALLATION OF HYDROSTOR STORMWATER CHAMBERS, A PRECONSTRUCTION MEETING SHALL BE HELD WITH A PRINSCO REPRESENTATIVE AND THE INSTALLERS.
- 2. HYDROSTOR STORMWATER CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PRINSCO "HYDROSTOR CONSTRUCTION GUIDE."
- 3. HYDROSTOR STORMWATER CHAMBERS SHALL NOT BE INSTALLED ON WET OR UNSTABLE FOUNDATION OR SUBGRADE. FOUNDATION STONE MUST BE LEVEL AND COMPACTED.
- 4. PRINSCO RECOMMENDS PRETREATMENT OF STORMWATER RUNOFF USING A PRINSCO STORMWATER QUALITY UNIT AND/OR A SEDIMENT ROW.
- 5. MAINTAIN MINIMUM SPACING OF 6" (SPECIFICALLY HS180) BETWEEN CHAMBERS.
- 6. CONSTRUCTION EQUIPMENT SHALL NOT BE SITUATED ATOP THE CHAMBERS UNTIL SUFFICIENT COVER HAS BEEN ACHIEVED. DUMP TRUCKS, RUBBER TIRE LOADERS, EXCAVATORS, WHEEL OR ROLLER LOADS ARE NOT ALLOWED UNTIL PROPER FILL HEIGHTS HAVE BEEN ACHIEVED. REFER TO PRINSCO "HYDROSTOR CONSTRUCTION GUIDE" FOR SPECIFIC LOADING CRITERIA.
- 7. EMBEDMENT BACKFILL MUST BE PLACED USING THE FOLLOWING METHODS ONLY:
 - BACKFILL WITH AN EXCAVATOR LOCATED OUTSIDE THE EXCAVATION
 - BACKFILL WITH A STONE SHOOTER LOCATED OUTSIDE THE EXCAVATION
 - BACKFILL AS ROWS ARE BUILT WITH AN EXCAVATOR ON THE SUBGRADE OR FOUNDATION STONE
- EMBEDMENT BACKFILL SHALL NOT BE PLACED USING THE "DUMP AND PUSH" METHOD. THIS MAY CAUSE DAMAGE TO THE CHAMBERS, WILL RESULT IN IMPROPER INSTALLATION AND WILL VOID THE PRINSCO STANDARD WARRANTY.
- 9. ONCE SUFFICIENT COVER IS ACHIEVED (12" FOR HS180), GRADING MAY COMMENCE WITH A SMALL DOZER OR SKID LOADER (LESS THAN 4.5 PSI GROUND PRESSURE). EQUIPMENT SHALL ALWAYS TRAVEL PARALLEL TO CHAMBER ROWS. SEE PRINSCO "HYDROSTOR CONSTRUCTION GUIDE" FOR SPECIFIC LOADING CRITERIA.

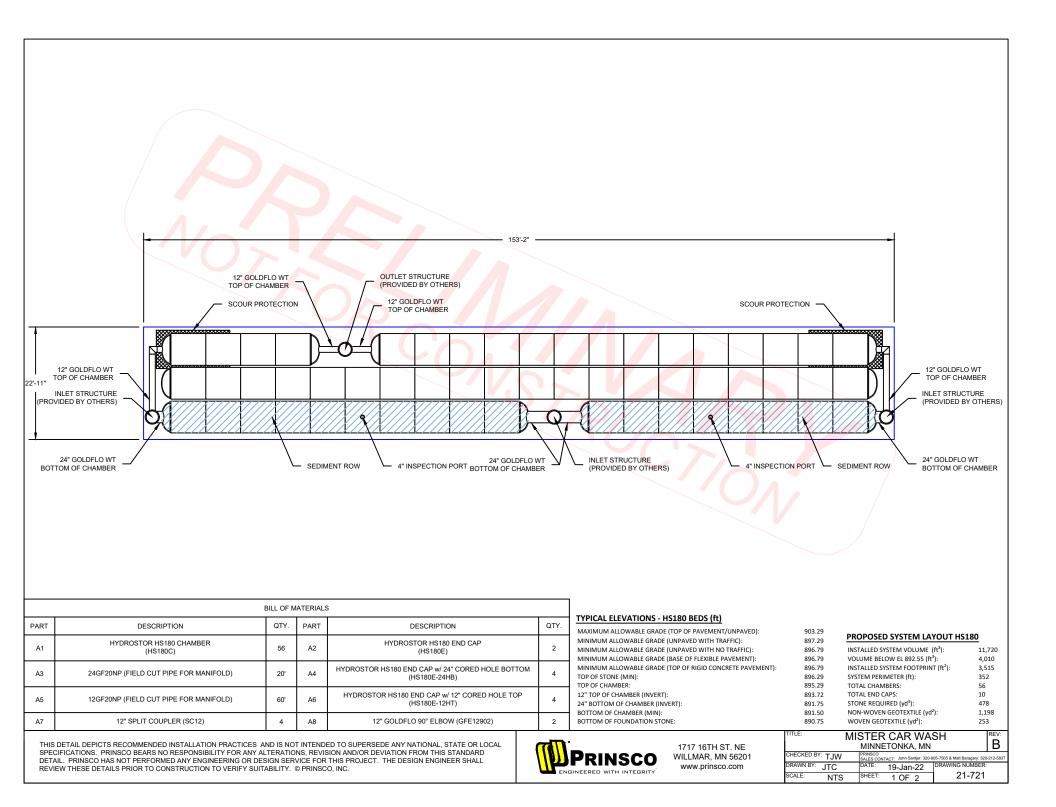
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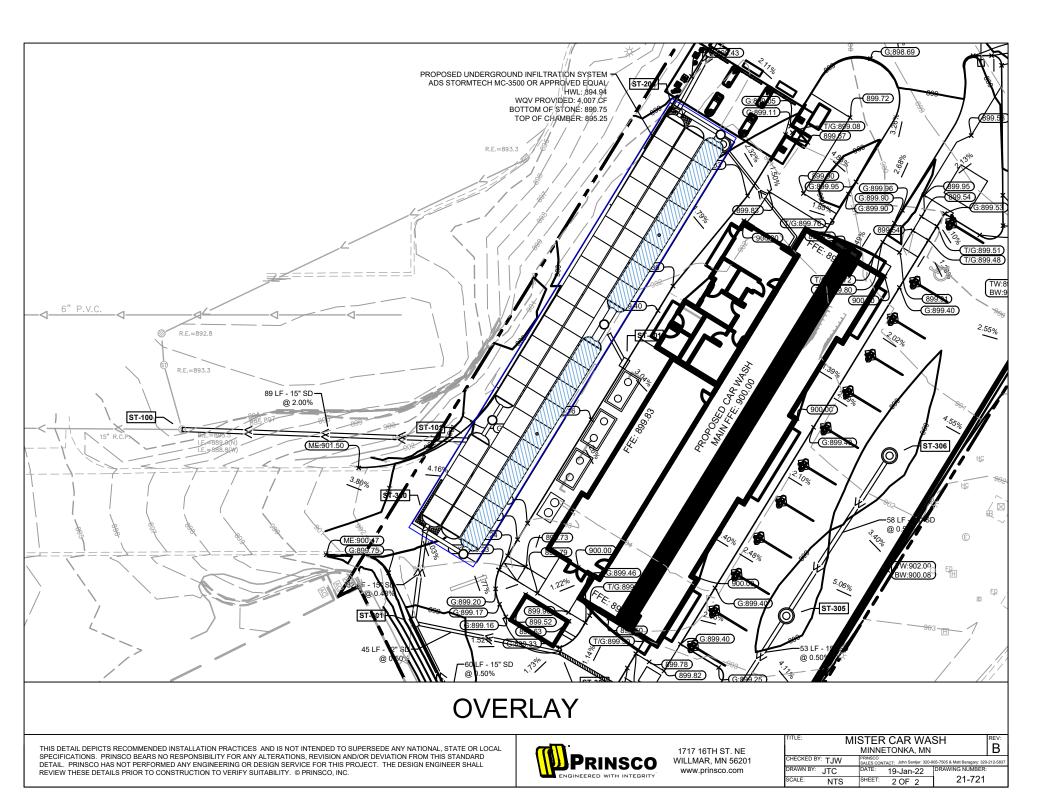
- PROJECT NUMBER: 21-721
- PRINSCO SALES CONTACT: John Santjer: 320-905-7505 & Matt Baragary: 320-212-5837
- ENGINEER: ----
- CONTRACTOR: ----
- DISTRIBUTOR: ----

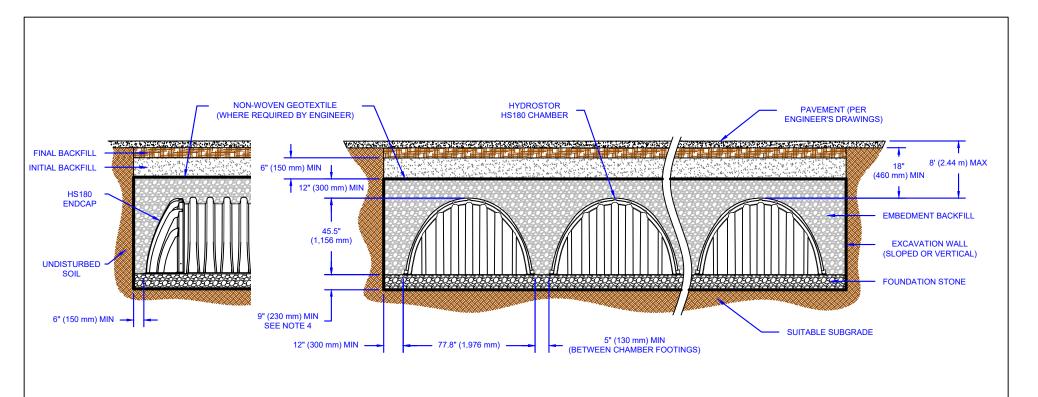
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CUSTOMER

DATE







NOTES:

- 1. HYDROSTOR HS180 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418. HS180 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION GUIDELINES.
- 2. SUBGRADE: TRENCH BOTTOMS WITH UNSTABLE OR UNYIELDING MATERIAL SHALL BE EXCAVATED TO A DEPTH DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE MATERIAL. FOR UNSTABLE MATERIALS, GEOTEXTILE MAY BE USED TO STABILIZE THE TRENCH BOTTOM, IF DIRECTED BY THE ENGINEER. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING SUBGRADE SUITABILITY.
- 3. GEOTEXTILE: AN AASHTO M288 CLASS 2 OR 3 NON-WOVEN GEOTEXTILE SHOULD BE USED FOR EMBEDMENT BACKFILL MATERIAL 3/4 TO 2 INCH (19 - 51 MM). GEOTEXTILE FILTER FABRIC IS PLACED AROUND THE SYSTEM TO PREVENT NATIVE SOIL FROM MIGRATING INTO THE EMBEDMENT BACKFILL MATERIAL. TO ENSURE FABRIC IS SUITABLE WITH IN SITU SOILS, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED.
- 4. FOUNDATION STONE: SUITABLE MATERIAL SHALL BE A 3/4 2 INCH (19 51 mm), WASHED, CRUSHED ANGULAR STONE, OR AASHTO M43 SIZES (3, 357, 4, 467, 5, 56, 57) WITH WASHED, CRUSHED, ANGULAR STONE ADDED TO THE GRADATION, e.g., WASHED, CRUSHED, ANGULAR #3 (AASHTO M43) STONE. MINIMUM FOUNDATION STONE THICKNESS TO BE DETERMINED BY DESIGN ENGINEER. MINIMUM OF 9" (230 mm) RECOMMENDED. REFER TO PRINSCO DESIGN MANUAL FOR ADDITIONAL GUIDANCE. COMPACTION SHOULD BE DONE IN LIFTS OF NO MORE THAN 9 INCHES (230 mm).
- 5. EMBEDMENT BACKFILL: SUITABLE MATERIAL SHALL BE A 3/4 2 INCH (19 51 mm), WASHED, CRUSHED ANGULAR STONE, OR AASHTO M43 SIZES (3, 357, 4, 467, 5, 56, 57) WITH WASHED, CRUSHED, ANGULAR STONE ADDED TO THE GRADATION, e.g., WASHED, CRUSHED, ANGULAR #3 (AASHTO M43) STONE. EMBEDMENT BACKFILL SHALL EXTEND FROM TOP OF BEDDING TO NOT LESS THAN 12 INCHES (300 mm) ABOVE THE TOP OF THE CHAMBER. NO COMPACTION IS REQUIRED BUT AN EFFORT SHOULD BE MADE TO HAND KNIFE STONE IN BETWEEN ALL CORRUGATIONS.

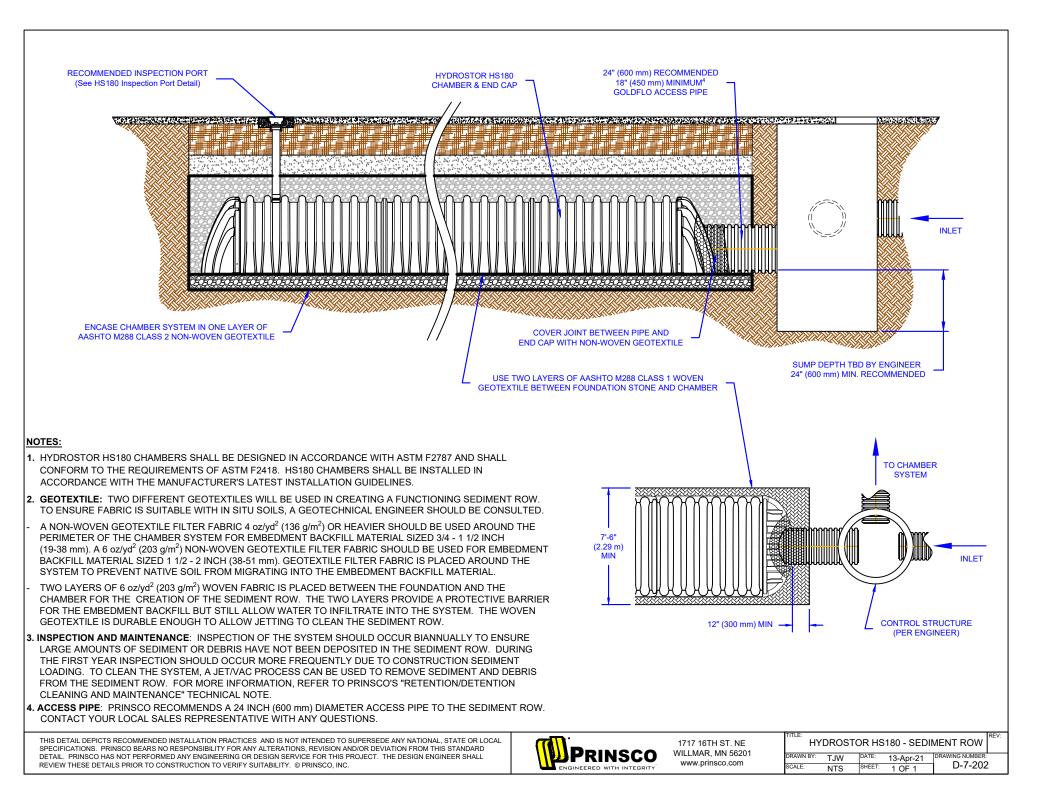
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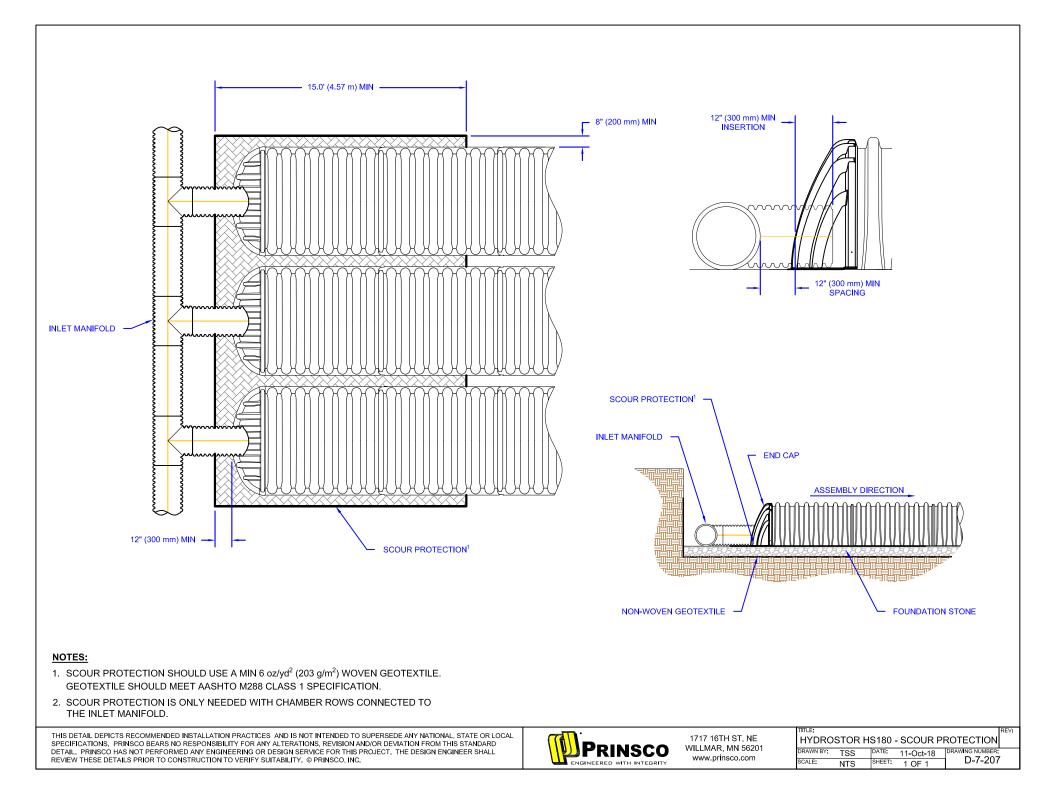
- 6. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE A GRANULAR, WELL GRADED SOIL WITH LESS THAN 35% FINES OR AASHTO M43 SIZES (3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10). MOST PAVEMENT SUBBASE MATERIALS FALL WITHIN THIS GRADING CRITERIA. INITIAL BACKFILL SHALL EXTEND FROM TOP OF EMBEDMENT BACKFILL TO NOT LESS THAN 18 INCHES (460 mm) ABOVE THE TOP OF THE CHAMBER. COMPACT TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- 7. FINAL BACKFILL: SUITABLE MATERIALS SHALL BE ANY SOIL DIRECTED BY THE ENGINEER. FINAL BACKFILL SHALL EXTEND FROM TOP OF INITIAL BACKFILL TO NO MORE THAN 8 FEET (2.44 m) ABOVE THE TOP OF THE CHAMBER. COMPACTION LEVELS SHOULD FOLLOW ENGINEERS RECOMMENDATIONS.
- 8. MINIMUM COVER: FOR TRAFFIC APPLICATIONS A MINIMUM COVER OF 18 INCHES (460 mm) IS REQUIRED, MEASURED FROM THE TOP OF THE CHAMBER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR TO THE TOP OF RIGID PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING MAY OCCUR, INCREASE COVER TO 30 INCHES (750 mm) FOR H-20 LOADING. ADDITIONAL COVER MAY BE REQUIRED FOR CONSTRUCTION LOADS.
- **9. MAXIMUM COVER:** A COVER HEIGHT OF OVER 8 FEET (2.44 m) IS NOT RECOMMENDED. COVER HEIGHT IS MEASURED FROM THE TOP OF THE CHAMBER TO THE TOP OF THE PAVEMENT.
- 10. LOAD RATING: HS180 CHAMBERS ARE TRAFFIC RATED FOR H-20 VEHICLES WITH ADDITIONAL CONSIDERATION FOR LANE LOADING, COMMONLY REFERRED TO AS HL-93 LOAD RATING (AASHTO DESIGN TRUCK).

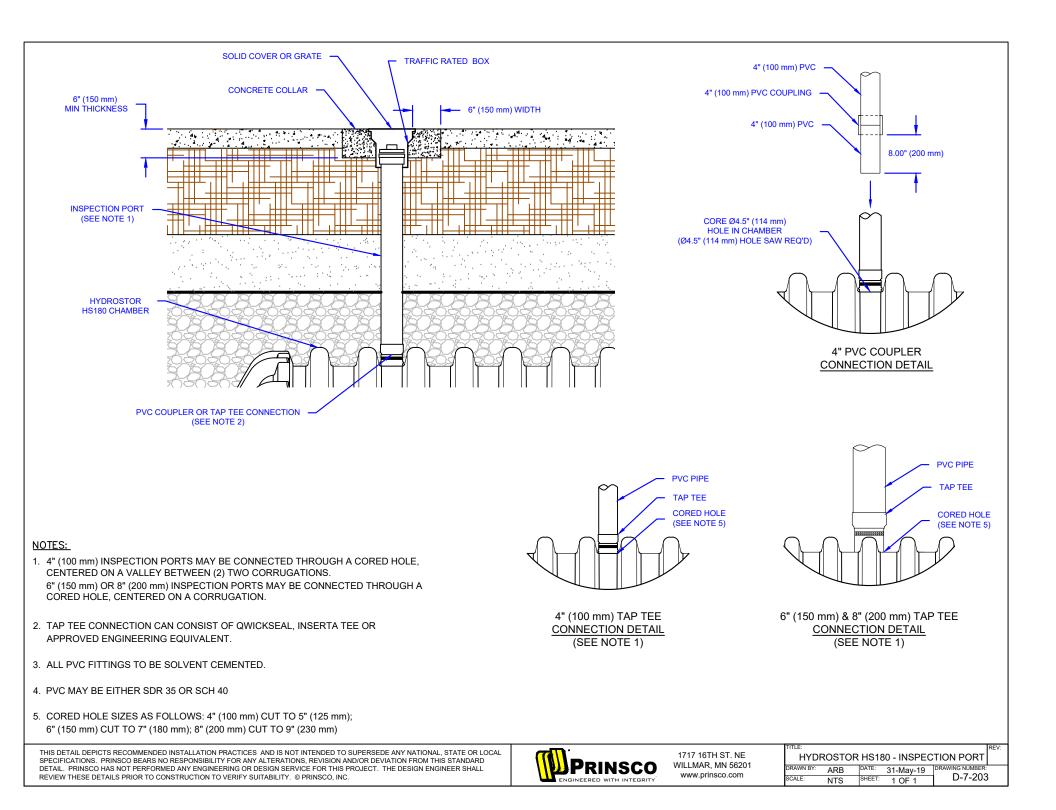


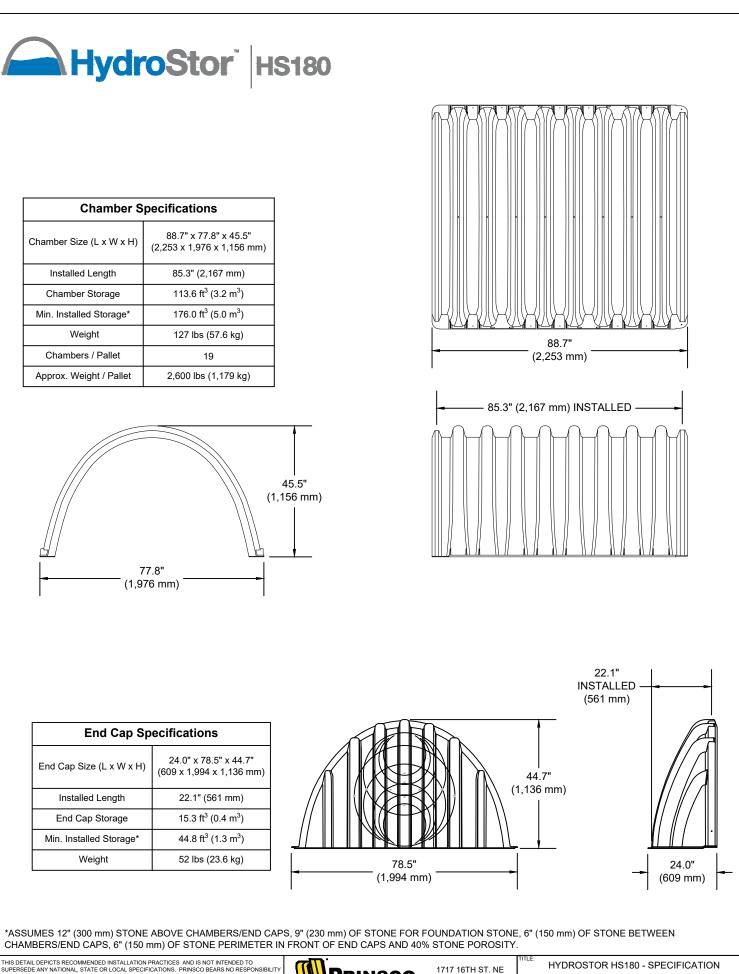
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