RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512
www.rpbcwd.org

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2026-018

Considered at Board of Managers Meeting: April 15, 2026

Received complete: March 31, 2026

Applicant: City of Chanhassen

Representative: Kimley Horn – Adam Tjaden

Project: The applicant proposes reconstruction of Market Boulevard and Chan View as well as repairs to sanitary sewer, watermain, and storm sewer. Stormwater management will be provided by an existing wet detention basin, two active iron enhanced sand filtration basins, and a regional rainwater harvest and reuse system to provide volume control, water quality, and rate control.

Location: The work area is bounded by Chan View to the north, Highway 5 to the south, and Laredo Drive to the east.

Reviewer: Scott Sobiech, P.E., 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 April 15, 2026 meeting of the managers:

Resolved that the application for Permit 2026-018 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 to the applicant, Permit 2026-018 on behalf of RPBCWD.

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

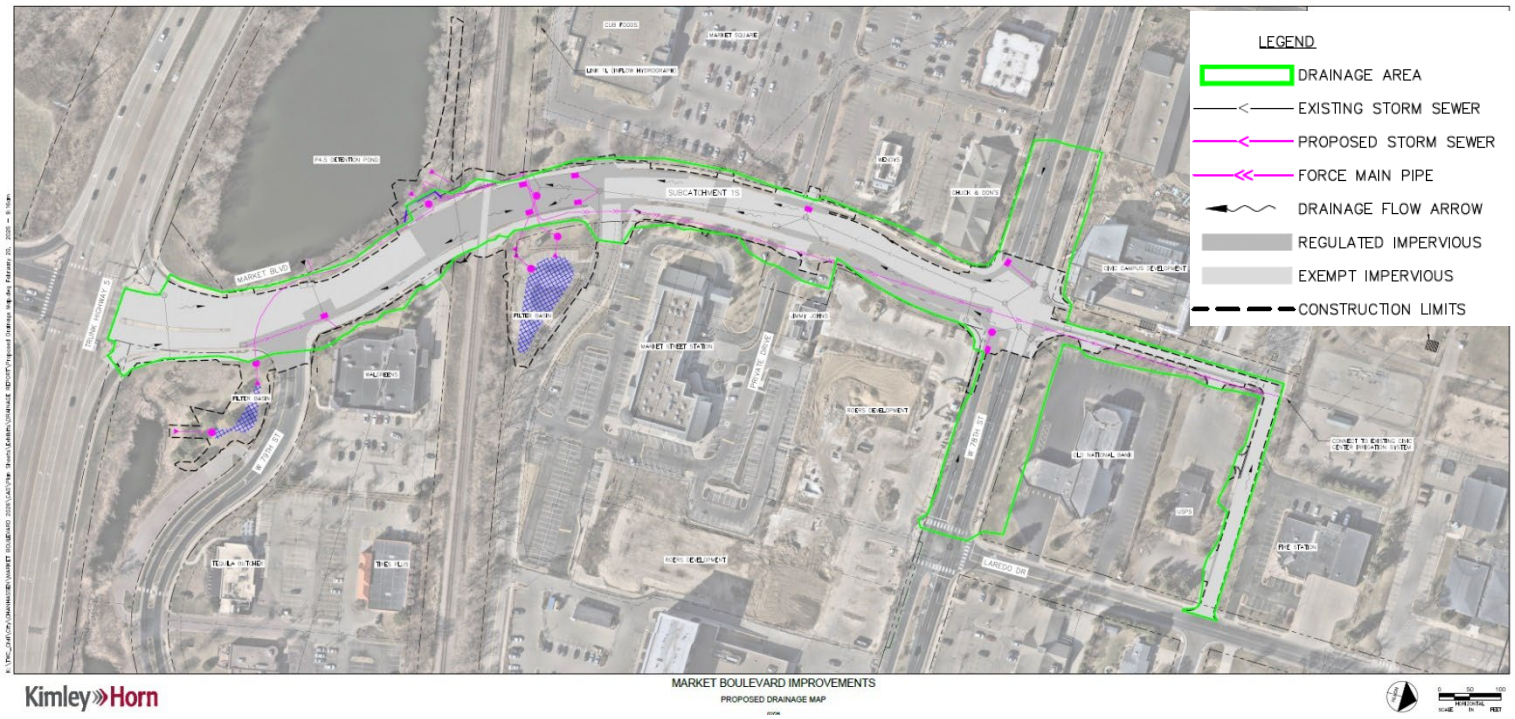
Applicable Rule Conformance Summary

Rule	Issue		Conforms to Rule?	Comments
B	**Floodplain Management and Drainage Alterations**		See comment.	See rule-specific permit condition B1 related to prevent the spread of aquatic invasive species.
C	**Erosion Prevention and Sediment Control**		See comment.	See rule-specific permit condition C1 related to providing name and contact information for the individual responsible for erosion control.
J	**Stormwater Management**	Rate	Yes	
		Volume	Yes	
		Water Quality	Yes	
		Low Floor Elev.	Yes	

Rule	Issue		Conforms to Rule?	Comments
		Maintenance	See Comment	See Rule Specific Permit Condition J1 related to maintenance agreement execution
		Chloride Management	See Comment	See stipulation #5 related to providing a chloride management plan prior to close-out.
		Wetland Protection	NA	
L	**Permit Fee**		N/A	Governmental Entity
M	**Financial Assurance**		N/A	Governmental Entity

Background

The City of Chanhassen proposes street rehabilitation (light gray) and reconstruction (dark gray) of Market Boulevard and Chan View as shown in the below figure. The city proposed to conduct the land-disturbing activities within existing right of way, drainage and utilities easements, and temporary construction easements. One existing wet detention pond two active iron enhanced sand filtration basins, and a regional rainwater harvest and reuse system (conceptually approved under 2024-023) are proposed to provide stormwater volume control, water quality, and rate control. The entire reuse system will be constructed under this permit, if approved by the RPBCWD managers, and is designed to also pump water from the existing wet detention pond during the growing season to the active iron enhanced sand filtration basins for additional water quality treatment. This active pumping also allows the city to proactively reduce the water level in the existing pond prior to anticipated rainfall events to also reduce the flood risk on Market Boulevard. The construction and operation of the regional reuse system will fulfill the outstanding requirements of permits 2024-013 and 2024-023.



The reuse water would be pumped under Market Boulevard right of way to irrigate the existing ballfields located north of Chanhassen City Hall, the Chanhassen Civic Campus (RPBCWD permit 2024-023), and the boulevards along Market Boulevard (see adjacent image showing irrigation areas).

Relevant project site information is provided in Table 1. The site is located entirely in the Rice Marsh Lake subwatershed.

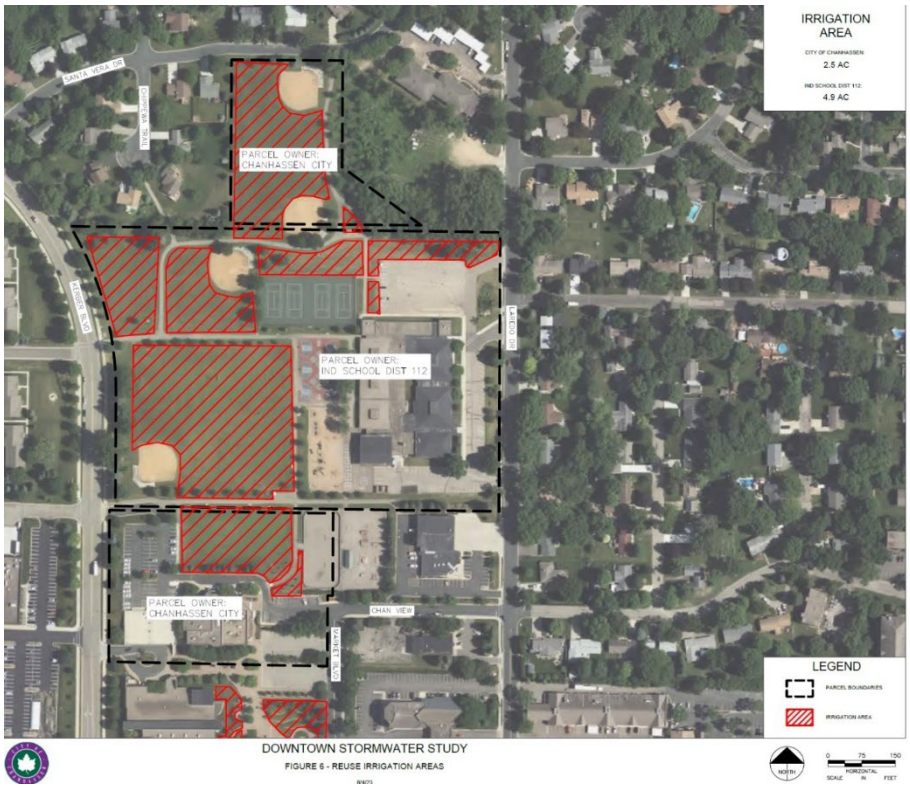


Table 1 Relevant Project Information

	Total Project
Total Site Area (acres)	5.49
Existing Site Impervious (acres)	3.96
Post Construction Site Impervious (acres)	3.86
New (decrease) Imperious Area (acres)	0.10
Exempt Impervious Surface (acres) (See Rule J.2.2.c, 2.2.d)	2.33
Regulated Impervious Surface (acres)	1.31
Total Disturbed Area (acres)	5.49

The following materials were reviewed in support of the permit request:

1. Permit application dated March 2, 2026 (Notified applicant on March 19, 2026 that submittal was incomplete, materials completing the application received March 31, 2026)
2. Stormwater Report dated February 27, 2026
3. Construction Drawings (169 sheets) dated February 20, 2026
4. Geotechnical/Pavement Evaluation Report by Bruan Intertec dated June 3, 2024
5. Electronic HydroCAD models (I.e., hydrologic and hydraulic models) for existing and proposed conditions received March 31, 2026
6. Electronic proposed conditions MIDS modeling received March 31, 2026
7. Compensatory storage computations received March 31, 2026
8. Irrigation system technical specifications received March 31, 2026
9. Response to Comments from Kimley Horn received March 27, 2026
10. Active Filtration Credit spreadsheet received April 2, 2026 (revised April 3, 2026)

11. Downtown Chanhassen Regional Stormwater Framework dated March 2024 (Revised April 2024)
12. Market Boulevard Improvements: Smart Pond Outlet memo dated April 2024

Rule Specific Permit Conditions

Rule B: Floodplain Management and Drainage Alterations

Because the project will involve land disturbing activities in the floodplain below the 100-year flood elevation of Pond 4.5(953.9 ft) to install the reuse pumping station and an 18-inch s flared end section, the project must conform to the requirements set forth in the RPBCWD Floodplain Management and Drainage Alterations rule (Rule B, Subsection 2.1).

Because the applicant proposes a new pump station structure with a low floor, the low-floor elevation requirements set forth by Rule B, Subsection 3.1 impose requirements on the project. No structure may be constructed or reconstructed such that its lowest floor elevation is less than 2 feet above the 100-year event flood elevation according to Rule J, Subsection 3.6a. Because the low floor elevation of the proposed structure is greater than 2 feet above the 100-year high water elevation of the adjacent stormwater facility (see Table 2), thus meeting the low floor requirements in Rule J, Subsection 3.6

Table 2. Low Floor Evaluation of Proposed Structure

Structure Address	Stormwater Facility	100-year Event Flood Elevation of Feature (feet)	Lowest Floor Elevation of Building (feet)	Freeboard Provided (feet)
Reuse Pump Station	Pond 4.5	953.9	957.0	3.1

Placement of fill below the 100-year flood elevation is prohibited unless fully compensatory flood storage is provided within the same floodplain and at or below the same elevation for fill in the floodplain of a water basin (Rule B, Subsection 3.2b). The supporting materials demonstrate, and the RPBCWD Engineer concurs, that 219.27 cubic yard of fill will be placed below the 100-year high water level of Pond 4.5 and 233.77 cubic yard of compensatory storage will be created by with the floodplain of Pond 4.5, thus resulting in a net increase in flood storage of 14.5 cubic yards and conforming with Rule B, Subsection 3.2.

The applicant provided water-quality analysis associated with the proposed regional reuse system to demonstrate the project is not reasonably likely to have an adverse impact on water quality. The modeling results show the total suspended solids and total phosphorus load leaving the site after the street reconstruction project and implementation of the regional reuse system will be less than the existing load leaving the site (see Rule J Water Quality analysis). Because implementation of the project will provide a reduction in pollutant loading, the proposed alterations are not likely to cause adverse impacts to water quality. In addition, consistent with the rate-control requirement in Rule J, the proposed peak discharge rates leaving the site are less than existing for the 2, 10, and 100-year event as presented in the Rule J rate control analysis. The proposed land-disturbing activity conforms to Rule B, Subsection 3.3.

Rule B, subsection 3.4 precludes creation of impervious surface within 50 feet of a watercourse unless such impervious is associated with a creek crossing regulated under Rule G or a trail 10 feet wide or less.

Because there are no watercourses in the project area, subsection 3.4 does not impose requirements on the project. An erosion prevention and sediment control plan has been provided, per subsection 3.5.

The following revision is needed conforms to the floodplain management and drainage alteration requirements of Rule B:

B1. . The applicant must update the plans to include notes for controlling aquatic invasive species entering and leaving the site, per subsection 3.6.

Rule C: Erosion Prevention and Sediment Control

Because the project will involve 5.49 acres of land-disturbing activity, the project must conform to the requirements set forth by the RPBCWD Erosion Prevention and Sediment Control rule (Rule C, Subsection 2.1a).

The erosion control plans prepared by Kimley Horn includes installation of silt fence, sediment control logs, stabilized construction entrances, inspection, staging areas, riprap at flared ends, placement of a minimum of 6 inches of topsoil with a minimum 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 sediment-control measures from the time the permitted activities commence until vegetative cover is established.

Rule J: Stormwater Management

Because the project will alter 5.49 acres of surface area, conformance with RPBCWD's Stormwater Management Rule (Rule J) is required.

The project entails pavement reconstruction that altogether amounts to 3.46 acres of impervious surface entirely within linear corridors and independent of a larger development or redevelopment; therefore, stormwater management for this project must be provided in accordance with the criteria of Subsection 3.2 (Rule J, Subsection 2.4). The 2.33 acres of pavement rehabilitation is exempt from stormwater management (Rule J, subsection 2.2.c). Therefore, the requirements of Rule J apply to 1.31 acres of proposed new and reconstructed linear impervious surface within the site.

One existing wet detention pond (Pond 4.5), two filtration basins, a regional rainwater harvest and reuse system are proposed to provide stormwater volume control, water quality, and rate control. Pretreatment for runoff entering the filtration basins is being provided by the existing wet detention pond. T

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 HydroCAD 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 3. The RPBCWD engineer finds the proposed project conforms with RPBCWD Rule J, Subsection 3.1.a.

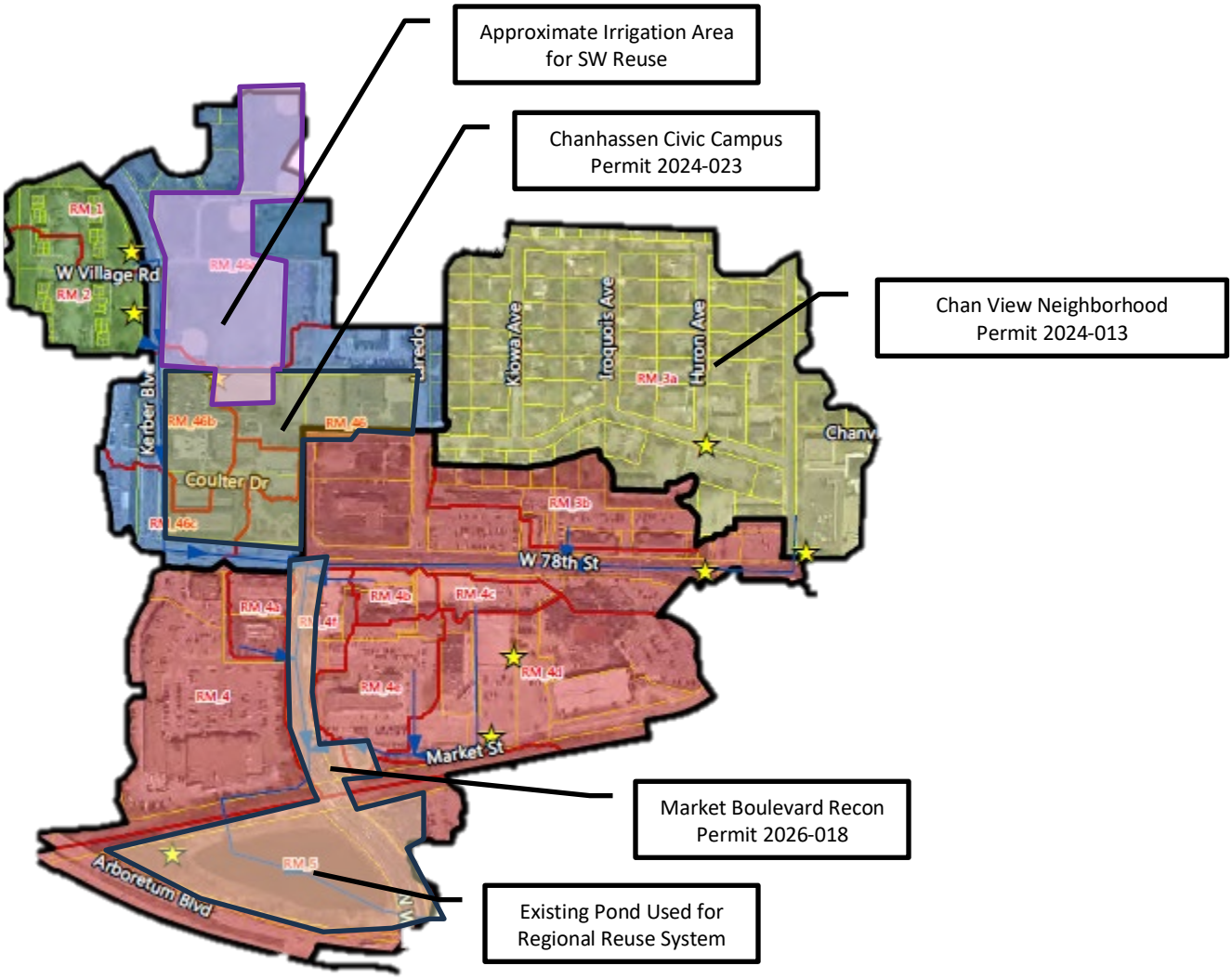
Table 3.Rate control summary:

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
Highway 5	23.1	23.1	33.8	33.8	58.4	58.4	3.0	3.0

Volume Abstraction

Subsection 3.2c of Rule J requires the abstraction onsite of the larger of 0.55 inches of runoff from the new and fully reconstructed linear impervious surfaces (1.31 acres) or 1.1 inches from the net increase in linear impervious area (0.13 acres). The abstraction volume required from the new and fully reconstructed linear impervious surfaces is 2,615 cubic feet while 519 cubic feet of abstraction is required from the net increase in impervious surface. Therefore, the required abstraction volume for the proposed project is 2,615 cubic feet. The applicant is proposing to provide abstraction volume using the regional rainwater harvest and reuse system.

Because the city proposes to construct and use the regional reuse system to provide water quality within the same subwatershed for the portion of the project site within the Rice Marsh Lake subwatershed, the applicant previously provided the Downtown Chanhassen Regional Stormwater Framework report to support the analysis. Downtown Chanhassen Regional Stormwater Framework outlines the city's use of a regional reuse system to provide abstraction beyond that required for compliance with subsection 3.2 discussed above (permit 2026-018 currently under review) and water quality treatment for the Chan View Street Reconstruction (RPBCWD Permit 2024-013), Chanhassen Civic Campus reconstruction (RPBCWD Permit 2024-023). The construction and operation of the regional reuse system will fulfill the outstanding requirements of permit 2024-013 and 2024-023. The following image shows the areas associated with the above referenced permits are tributary area to the regional reuse system.



As approved under permit 2024-013 and repeated here for background information, the applicant intends to reuse as much water as the conditions will allow while maintaining the areas in useable condition and requested approval of a 1.65 inch per week irrigation rate based on surface infiltration testing in the irrigation areas. The MIDS model estimates abstraction volume based on the amount of water that is used for irrigation over a three-day period (timeframe is the typical time between rainfall event in Minneapolis). Rather than irrigating 0.22 inches three times per week has suggested by the MIDS calculator, the applicant will need to irrigate an equivalent of 0.37 inches three times per week to maximize the abstraction volume provided by the system. Because of the infiltration testing conducted in the irrigation area, the engineer concurs with the use of a 1.65 inch per week irrigation rate to produce an available abstraction volume of 33,595 cubic feet and provide 15.3 pounds per year of total phosphorus reduction and 2,784 pounds per year of total suspended solids reduction.

The applicant is proposing to rely on the regional reuse system to provide the abstraction volume required by subsection 3.2.c as summarized in Table 4. Because the proposed stormwater reuse system requires consistent use at a specified rate to meet District abstraction and water quality requirements, performance

monitoring for the site will be required to ensure that the project provides the proposed volume abstraction.

Table 4. Volume abstraction summary

Required Abstraction Depth (inches)	Required Abstraction Volume (cubic feet)	Provided Abstraction Depth (inches)[1]	Provided Abstraction Volume (cubic feet)[1]
0.55	2,615	0.55	2,615

[1] Because only 2,615 cubic feet of abstraction is required for this permit (2026-018), only 2,615 cubic feet of the available 33,595 cubic feet of capacity created by the regional reuse system presuming 1.65"/week irrigation rate would be used and is reported in the table.

Because the required abstraction volume (2,615 cubic feet) and pollutant reductions are less than the total produced by the reuse system (33,595 cubic feet) , there may be excess pollutant reduction and abstraction volume available for the applicant to use to demonstrate compliance for other permit applications (depending on actual irrigation rates achieved). If the monitored irrigation rates are less than 1.65 inches per week, design modifications to demonstrate compliance with RPBCWD requirements will need to be submitted to RPBCWD for review and approval in the form of a permit modification. Application of any extra pollutant reduction or volume abstraction used on other permits by this application will be analyzed under a separate permit application. Table 5 illustrates how the abstraction volume and pollutant reduction are used for permits 2024-013, 2024-023, and 2026-018. Approval of permit 2026-018 by the Board of Managers does not constitute future approval of other permits.

Table 5. Tracking of Volume Abstraction and Pollutant Reduction for Regional Reuse System

Description	Abstraction Volume (cubic feet)	TSS (lbs/yr)	TP (pbs/yr)
Created by Proposed Regional Reuse System presuming 1.65"/week irrigation rate	33,595	2,784	15.3
Used for Permit 2024-013	0	-1,105	-4.1
Used for this Permit 2024-023	-15,755	-1,291	-4.66
Used for this Permit 2026-018	-2,615	-510	-1.87
Created by 79th St Active Filtration Basin	0	103	1.22
Created by Market Dr Active Filtration Basin	0	333	3.93
Potential remaining capacity[1]	15,225	314	9.82

[1] Because reuse system will be constructed under this permit and the capacity of the reuse system is based a presumed 1.65"/week irrigation rate, the potenial remaining capacity is an estimate until the system performance is documented.

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant to provide for at least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS)

onsite or within the same subwatershed as the land-disturbing activities, as well as no net increase in pollutant loading from existing conditions. Water quality models were developed to estimate the TP and TSS loading from the watersheds and the removal capacity of the proposed on-site BMPs and regional reuse system. The results of this modeling are summarized in Table 6 and Table 7 below. The engineer concurs with the modeling and finds that the proposed project will be in conformance with Rule J, Subsection 3.1.c.

Table 6. Annual TSS and TP removal summary:

Pollutant of Interest	Regulated Site Loading (lbs/yr)	Required Load Removal (lbs/yr)[1]	Provided Load Reduction (lbs/yr)
Total Suspended Solids (TSS)	567	510 (90%)	510 (90%)[1]
Total Phosphorus (TP)	3.12	1.87 (60%)	1.87 (60%)[2]

[1] TSS load reduction comprised of 436 lbs/year from on-site BMPs and 74 lbs/yr from the regional reuse system.
[2] TP load reduction comprised of 1.87 lbs/year from on-site BMPs because the active filtration basins treat runoff pumped to them from the existing wet detention pond.

Table 7. Summary of net change in TSS and TP leaving the site

Pollutant of Interest	Existing Loading (lbs/yr)	Proposed Load after Treatment (lbs/yr)	Change (lbs/yr)
Total Suspended Solids (TSS)	526	57	-469
Total Phosphorus (TP)	2.9	1.25	-1.65

Low floor Elevation

No structure may be constructed or reconstructed such that its lowest floor elevation is less than 2 feet above the 100-year event flood elevation according to Rule J, Subsection 3.6. 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 a standard in this subsection 3.6. The low floor elevations of the proposed reuse pump station and existing structures as well as the 100-year high water elevation of the stormwater facilities are summarized in Table 8. Because the low floor elevations of the proposed structure are more than two feet above the 100-year flood elevation of the stormwater facility, the proposed project is in conformance with Rule J, Subsection 3.6.

Table 8 Low Floor Evaluation

Structure Address	Stormwater Facility	100-year Event Flood Elevation of Feature (feet)	Lowest Floor Elevation of Building (feet)	Freeboard Provided (feet)
Reuse Pump Station	Pond 4.5	953.9	957.0	3.1
580 Market Street	Market Dr Filtration Basin	960	956.3	3.7

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.

J1. Permit applicant must provide a draft maintenance, inspection, and operating plan for review and approval by RPBCWD. As a public entity, the city of Chanhassen may comply with this requirement by entering into a maintenance agreement with the RPBCWD. The agreement must also include a stormwater reuse monitoring, monitoring of volumes pumped to the active filtration basins, and reporting plan that includes protection of the greenspace to be irrigated and metering of the volume of reuse.

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, Permit applicant must provide a chloride management plan that designates the individual authorized to implement the chloride management plan.

Wetland Protection

Because the proposed activities discharge to a downstream stormwater pond, Rule J, subsection 3.10 does not impose requirements on the project.

Applicable General Requirements:

1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
2. 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.
3. The grant of the permit does not relieve the permittee of any responsibility to obtain approval of any other regulatory body with authority.
4. 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.
5. 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.
6. 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.

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

Recommendation:

Approval of the permit, contingent upon:

1. Receipt of updated plans to include notes for controlling aquatic invasive species entering and leaving the site, per Rule B, subsection 3.6.
2. The applicant providing 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 sediment-control measures from the time the permitted activities commence until vegetative cover is established.
3. Stormwater management facilities maintenance and operating requirements must be documented in an agreement with RPBCWD. A draft of the agreement and associated exhibits must be provided for RPBCWD review and approval prior to execution. The agreement must also include a stormwater reuse monitoring and reporting plan that includes protection of the greenspace to be irrigated, metering of the volume of reuse and metering of volumes pumped to the active filtration basins, as well as maintenance specifics provided by the manufacturer(s) or installer(s) for the proprietary system.

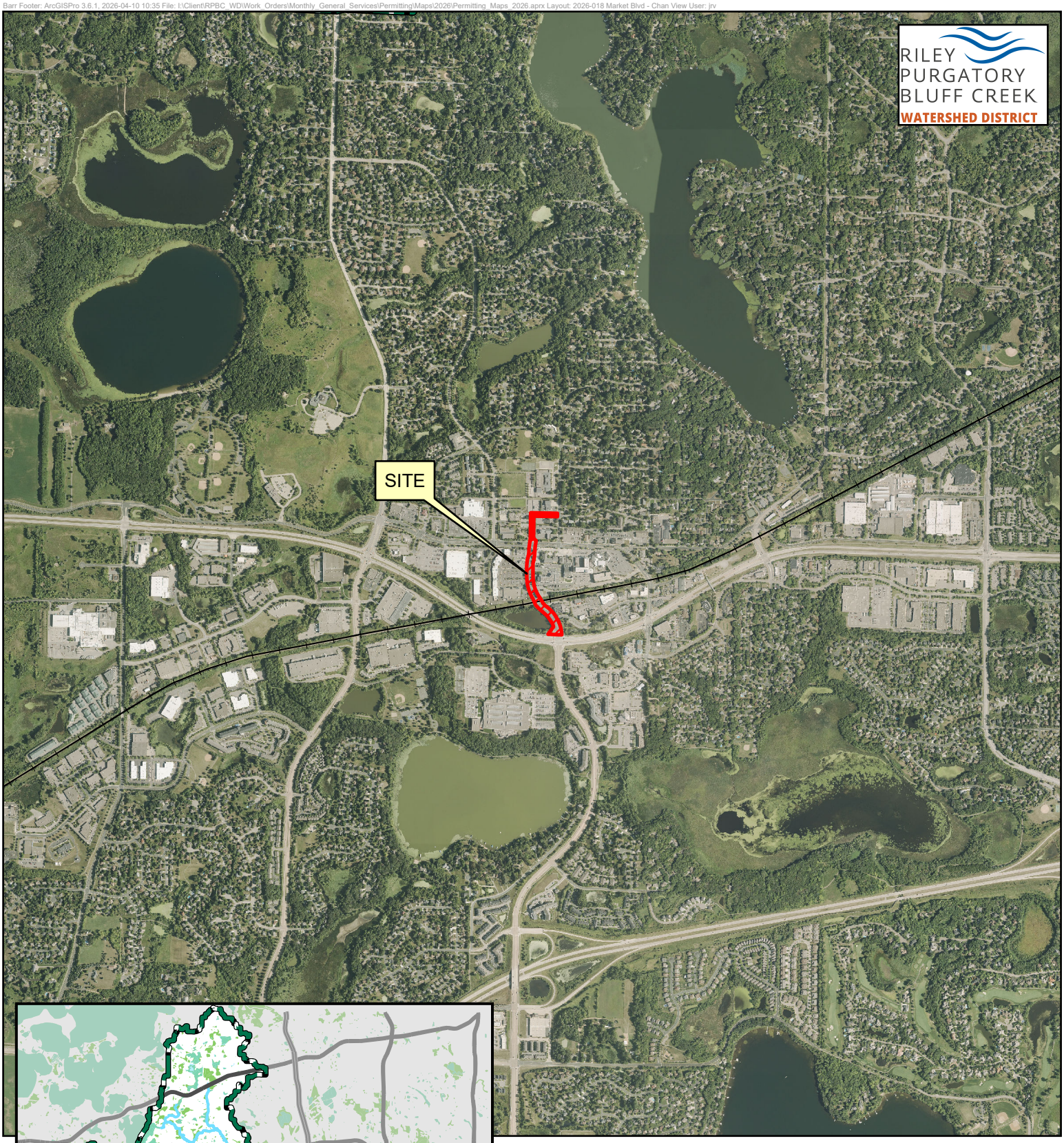
By accepting the permit, when issued, the applicant agrees to the following stipulations:

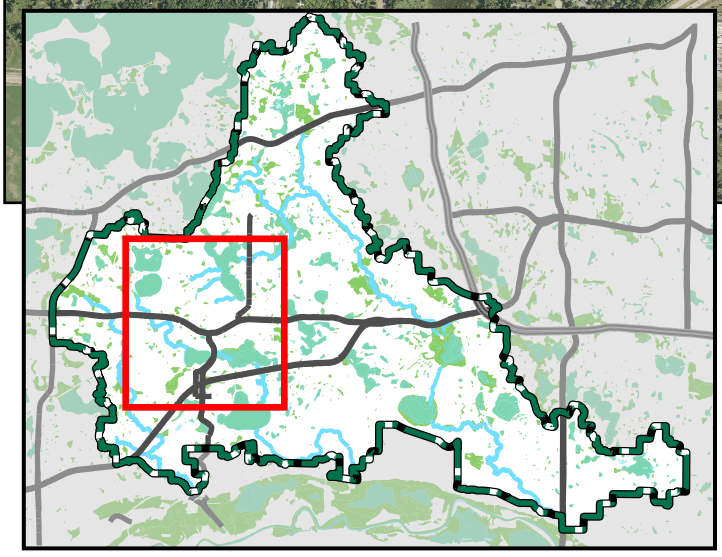
1. Continued compliance with General Requirements.
2. Per Rule C, Subsection 3.3 the permit holder will be responsible for the inspection, maintenance and effectiveness of all erosion prevention and sediment control facilities, features and techniques. The permittee must inspect all erosion prevention and sediment control facilities and soil stabilization measures to ensure integrity and effectiveness until final site stabilization.
3. 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.

4. Providing the following additional close-out materials:
    a) Documentation that constructed stormwater 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
5. To close out the permit, 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.

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N

Feet

0 2,000

Permit Location Map

MARKET BLVD - CHAN VIEW

Permit 2026-018

Riley Purgatory Bluff Creek Watershed District

Select Plans - not the entire set

CITY OF CHANHASSEN
MARKET BOULEVARD IMPROVEMENTS

CHANHASSEN PROJECT NO. 25-02

CONSTRUCTION PLANS FOR: BITUMINOUS, AGGREGATE BASE, GRADING, ADA IMPROVEMENTS, CONCRETE CURB & GUTTER, STORM SEWER, STORMWATER TREATMENT FACILITIES, LIGHTING AND SIGNAL SYSTEMS.

LOCATED ON: MARKET BOULEVARD FROM MN TH 5 TO CHAN VIEW (GEOGRAPHIC DESCRIPTION)

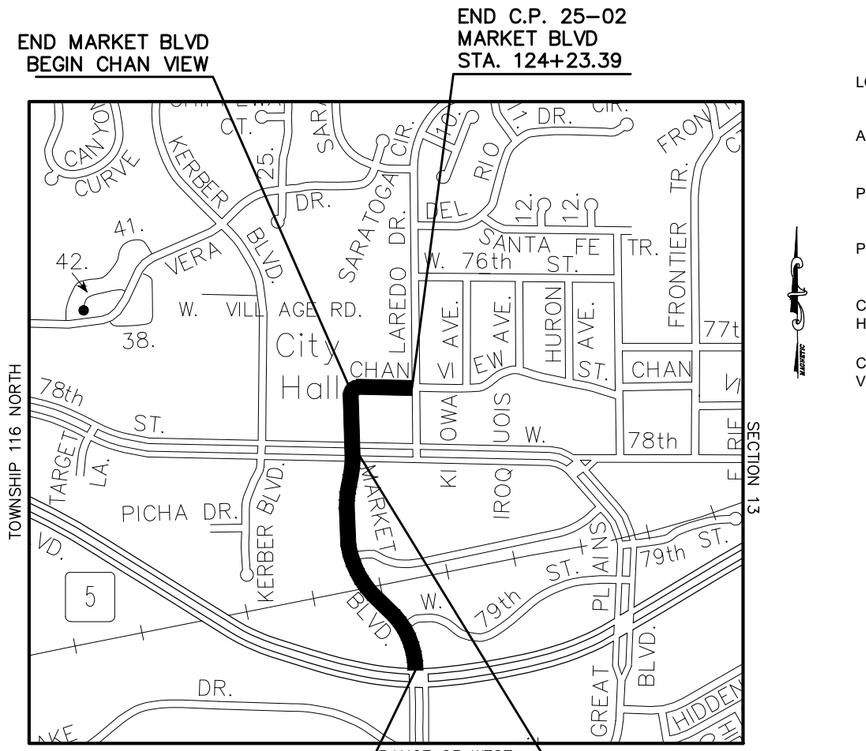
LOCATED ON: CHAN VIEW FROM MARKET BOULEVARD TO LAREDO DRIVE (GEOGRAPHIC DESCRIPTION)

DESIGN DESIGNATION: TRAIL
Functional Classification: TRAIL
Design Speed 20 mph
Based on STOPPING Sight Distance
Height of eye 4.5 Height of Object 0'
Design Speed not achieved at:
STA. 106+25 TO STA. 107+25 MPH 5 (RAIL ROAD CROSSING)

DESIGN DESIGNATION: MARKET BOULEVARD
STA. 100+39.18 TO 124+23.39
Functional Classification: Minor Collector
No. of Traffic Lanes = 4 No. of Parking Lanes = 0
ADT (Current Year) 2021 = 12,800 Design Speed 30 mph
ADT (Future Year) 2045 = 16,400 Based on STOPPING Sight Distance
DHV (Design Hr. Vol.) = 1,000 Height of eye 3.5 Height of Object 2.0'
D (Directional Distr.) = 53.00 % Design Speed not achieved at:
T (Heavy Commercial) = 3.40 % STA. N/A TO STA. N/A MPH N/A
R-Value 12 20 YR BESALS 2,527,000 Design Load 10 ton

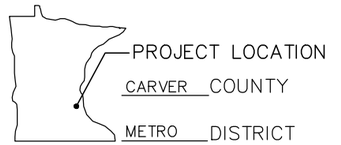
LEGEND

- EXISTING GATE VALVE
- EXISTING HYDRANT
- EXISTING SPRINKLER
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING HANDHOLE
- EXISTING FIBER OPTIC HH
- EXISTING FIBER OPTIC MARKER
- EXISTING TELEPHONE BOX
- EXISTING VAULT
- EXISTING CTV VAULT
- EXISTING ELECTRICAL VAULT
- EXISTING ELECTRICAL MANHOLE
- EXISTING ELECTRICAL TRANSFORMER
- EXISTING LIGHT POLE
- EXISTING TRAFFIC SIGNAL
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- EXISTING CURB AND GUTTER
- EXISTING FIBER OPTIC
- EXISTING GAS MAIN
- EXISTING COMMUNICATIONS
- EXISTING UNDERGROUND POWER
- EXISTING OVERHEAD POWER
- EXISTING TREE
- EXISTING STREET SIGN
- PROPOSED MANHOLE (STORM OR SANITARY)
- PROPOSED CATCH BASIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED HYDRANT
- PROPOSED CURB AND GUTTER
- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING DRAINAGE & UTILITY EASEMENT
- PROPOSED RIGHT-OF-WAY
- PROPOSED TEMPORARY EASEMENT



PLAN SET SCALES

- LOCATION MAP 0 250 500 1000 — 1"=500'
- ALIGNMENT 0 20 40 80 — 1"=40'
- PLAN 0 15 30 60 — 1"=30'
- PROFILE 0 2.5 5 10 — 1"=5'
- CROSS-SECTIONS HORIZONTAL 0 5 10 20 — 1"=10'
- CROSS-SECTIONS VERTICAL 0 2.5 5 10 — 1"=5'



NOTE:
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL C. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES".

THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.

GOPHER STATE ONE CALL SYSTEM.....1-800-252-1166

MARKET BOULEVARD
STATE PROJ. NO. 194-123-002

GROSS LENGTH	1651	FEET	0.313	MILES
EXCEPTION LENGTH	0	FEET	0	MILES
NET LENGTH	1651	FEET	0.313	MILES

GOVERNING SPECIFICATIONS

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE THE LATEST MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

THE LATEST EDITION OF THE MnDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION IS FURTHER AMENDED BY THE CITY OF CHANHASSEN SPECIFICATIONS FOR CONSTRUCTION.

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21 - 25	TYPICAL SECTIONS AND INSETS
26	CONSTRUCTION DETAILS
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33 - 35	STORM WATER POLLUTION PREVENTION PLAN
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41 - 45	EXISTING CONDITIONS, EXISTING UTILITIES, AND REMOVAL PLANS
46 - 50	SANITARY SEWER AND WATERMAIN PLAN AND PROFILES
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95	SUPERELEVATION PLANS
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151	PLANTING PLANS
152 - 169	CROSS SECTIONS

90% SUBMITTAL PLANS

THIS PLAN SET CONTAINS 169 SHEETS

Kimley»Horn

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 2/20/2026 LIC. NO. 59057

ENGINEER
MICHAEL A. KIRSCH

APPROVED _____ 2026
CITY OF CHANHASSEN ENGINEER

_____ 2026
DISTRICT STATE AID ENGINEER:
REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY

_____ 2026
STATE AID ENGINEER:
APPROVED FOR STATE AID FUNDING

PLAN REVISONS

DATE	SHEET NO.	APPROVED BY

STATE AID PROJ. NO. 194-123-002 SHEET NO. 1 OF 169 SHEETS

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\2026-MARKET-COVER.dwg February 20, 2026 - 2:41pm

GENERAL NOTES

(P) DENOTES PLAN QUANTITY

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12. BID ITEMS TO BE USED FOR TREE PLANTINGS
13. VINYL COATED
14. BID ITEMS TO BE USED FOR DRAINAGE BASINS

STATEMENT OF ESTIMATED QUANTITIES

					MARKET BOULEVARD IMPROVEMENTS					
					C.P. 25-02 (CITY OF CHANHASSEN)					
					S.A.P. 194-123-002 (PARTICIPATING)		LOCAL FUNDS (NON-PARTICIPATING)			WATER REUSE SYSTEM (STORMWATER RESILIENCE)
					ROADWAY/PMP	STORM SEWER	ROADWAY/PMP	SANITARY SEWER	WATERMAIN	
NOTE	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY
	2021.501	MOBILIZATION	LUMP SUM	1	1					
	2101.502	CLEARING	EACH	27	10					17
	2101.502	GRUBBING	EACH	27	10					17
	2101.505	CLEARING	ACRE	0.2						0.2
	2101.505	GRUBBING	ACRE	0.2						0.2
	2102.503	PAVEMENT MARKING REMOVAL	LIN FT	70			70			
	2102.518	PAVEMENT MARKING REMOVAL	SQ FT	195			195			
	2104.502	REMOVE PIPE APRON	EACH	3		1				2
	2104.502	REMOVE LIGHTING UNIT	EACH	9	9					
	2104.502	REMOVE CASTING	EACH	5		5				
	2104.502	REMOVE GATE VALVE & BOX	EACH	5					5	
	2104.502	REMOVE CURB STOP & BOX	EACH	1					1	
	2104.502	REMOVE HYDRANT	EACH	1					1	
	2104.502	REMOVE DRAINAGE STRUCTURE	EACH	11		10				1
	2104.502	REMOVE SIGN	EACH	25	22		3			
	2104.502	REMOVE SIGNAL SYSTEM B	EACH	1	1					
	2104.502	REMOVE LIGHT FOUNDATION	EACH	9	9					
	2104.502	REMOVE SIGN PANEL	EACH	4	3		1			
	2104.502	REMOVE SIGN PANEL SPECIAL	EACH	3	3					
	2104.502	SALVAGE HYDRANT	EACH	1					1	
	2104.502	SALVAGE SIGN	EACH	1			1			
	2104.502	SALVAGE SIGN PANEL	EACH	2			2			
	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	1245	515		590			140
	2104.503	REMOVE WATER MAIN	LIN FT	755					755	
	2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	525		445				80
	2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	102				102		
	2104.503	REMOVE CURB & GUTTER	LIN FT	3790	2880		340			570
	2104.503	REMOVE WATER SERVICE PIPE	LIN FT	40					40	
	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	380	260		30			90
	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	1030	115		175			740
	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	3730	3600		80			50
	2104.518	REMOVE BITUMINOUS WALK	SQ FT	4260	4250					
	2104.518	REMOVE CONCRETE WALK	SQ FT	11300	10420		880			
	2104.603	ABANDON WATER MAIN	LIN FT	62					62	
	2104.618	REMOVE BRICK PAVERS	SQ FT	200	200					
(P)	2106.507	EXCAVATION - COMMON	CU YD	9860	7084					2776
(P)	2106.507	EXCAVATION - CHANNEL AND POND	CU YD	290						290
(P)	2106.507	SELECT GRANULAR EMBANKMENT (CV)	CU YD	3800	3550		250			
(P)	2106.507	COMMON EMBANKMENT (CV)	CU YD	276	206					70
3	2106.601	DEWATERING	LUMP SUM	1	1					
11	2106.602	SOIL BORING	EACH	2						2
	2108.504	GEOTEXTILE FABRIC TYPE 3	SQ YD	108.8						108.8
	2108.604	GEOTEXTILE FABRIC TYPE 5	SQ YD	1750						1750
	2112.604	SUBGRADE PREPARATION	SQ YD	10700	9250		1450			
3	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	85	75		10			
3	2130.523	WATER	M GALLON	125	100		25			
(P)	2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD	2270	2100		170			
3	2211.607	3" MINUS LIMESTONE (CV)	CU YD	150	150					
	2215.504	FULL DEPTH RECLAMATION	SQ YD	9490	8020		1470			
	2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)	EACH	248	200		48			
	2360.509	TYPE SP 9.5 WEARING COURSE MIX (2,C)	TON	83	53		30			
	2360.509	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TON	204			204			
	2360.509	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)	TON	1907	1907					
	2360.509	TYPE SP 12.5 NON WEAR COURSE MIX (3,C)	TON	1729	1525		204			
	2360.509	TYPE SP 12.5 WEARING COURSE MIX (4,C)	TON	1525	1525					
11	2401.601	FOUNDATION PREPARATION	LUMP SUM	1						1

No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-SEQ.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH

DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

SUMMARY OF ESTIMATED QUANTITIES

CITY PROJECT	25-02
S.A.P.	194-123-002

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GENERAL NOTES

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					ROADWAY/PMP	STORM SEWER	ROADWAY/PMP	SANITARY SEWER	WATERMAIN	
NOTE	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY
(P), 11	2411.618	PREFABRICATED MODULAR BLOCK WALL	SQ FT	800						800
11	2451.507	FINE AGGREGATE BEDDING (CV)	CU YD	90						90
	2451.607	FINE FILTER AGGREGATE (CV)	CU YD	95						95
	2501.502	12" RC PIPE APRON	EACH	2						2
	2501.502	15" RC PIPE APRON	EACH	2						2
	2501.502	18" RC PIPE APRON	EACH	1						1
	2501.502	24" RC PIPE APRON	EACH	1		1				
	2501.602	TRASH GUARD FOR 24" PIPE APRON	EACH	1		1				
14	2502.503	6" PVC PIPE DRAIN	LIN FT	210						210
14	2502.503	6" PERF PVC PIPE DRAIN	LIN FT	682						682
14	2502.602	6" PVC PIPE DRAIN CLEANOUT	EACH	14						14
	2503.503	6" PVC PIPE SEWER	LIN FT	48						48
	2503.503	10" PVC PIPE SEWER	LIN FT	102				102		
	2503.503	12" RC PIPE SEWER DES 3006 CL V	LIN FT	91		91				
	2503.503	15" RC PIPE SEWER DES 3006 CL V	LIN FT	465		301				164
	2503.503	18" RC PIPE SEWER DES 3006 CL III	LIN FT	40		40				
	2503.503	24" RC PIPE SEWER DES 3006 CL III	LIN FT	96		96				
	2503.602	STANDARD VALVE MANHOLE	EACH	1						1
	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	1				1		
	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	5		5				
	2503.603	8" PVC PIPE SEWER	LIN FT	23						23
	2503.603	6" HDPE PIPE SEWER-DIRECTIONAL DRILLED	LIN FT	2100						2100
	2503.603	24" HDPE PIPE SEWER	LIN FT	35						35
	2504.601	TEMPORARY WATER SERVICE	LUMP SUM	1					1	
	2504.601	SMART POND CONTROL SYSTEM	LUMP SUM	1						1
	2504.602	WATERMAIN OFFSET	EACH	2					2	
	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	8					8	
	2504.602	HYDRANT	EACH	3					3	
	2504.602	ADJUST GATE VALVE & BOX	EACH	7					7	
	2504.602	1" CORPORATION STOP	EACH	1					1	
9	2504.602	6"X6" TEE FITTING	EACH	2						2
9	2504.602	6"X6" CROSS	EACH	1						1
	2504.602	6" GATE VALVE & BOX	EACH	3					1	2
	2504.602	10" GATE VALVE & BOX	EACH	3					3	
	2504.602	1" CURB STOP & BOX	EACH	1					1	
	2504.603	1" TYPE PE PIPE	LIN FT	40					40	
6	2504.603	6" PVC WATERMAIN	LIN FT	471					471	
6	2504.603	10" PVC WATERMAIN	LIN FT	516					516	
	2504.603	24" STEEL CASING PIPE (JACKED)	LIN FT	78						78
3	2504.603	IRRIGATION REPAIR	EACH	3					3	
	2504.603	22" STEEL CASING PIPE (JACKED)	LIN FT	100						100
1, 4	2504.604	4" POLYSTYRENE INSULATION	SQ YD	10					10	
	2504.608	DUCTILE IRON FITTINGS	POUND	1088					1088	
	2506.502	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	EACH	1						1
	2506.502	CASTING ASSEMBLY	EACH	10		9				1
	2506.502	ADJUST FRAME & RING CASTING	EACH	13		10		3		
	2506.503	CONST DRAINAGE STRUCTURE DESIGN N	LIN FT	19.5		19.5				
	2506.503	CONST DRAINAGE STRUCTURE DES 48-4020	LIN FT	44.1		37.1				7
	2506.601	REUSE TREATMENT PRECAST WET WELL	LUMP SUM	1						1
	2506.601	PUMP HOUSE	LUMP SUM	1						1
	2506.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH	7		6		1		
	2506.602	REPLACE CASTING RINGS	EACH	7		7				
	2511.507	RANDOM RIPRAP CLASS III	CU YD	25.6						25.6
	2511.507	GRANULAR FILTER	CU YD	1.6						1.6
7	2521.518	4" CONCRETE WALK	SQ FT	1100	1100					
	2521.518	6" CONCRETE WALK	SQ FT	16000	15850		150			
8	2521.618	CONCRETE WALK	SQ FT	7450	6750		700			
2	2531.503	CONCRETE CURB & GUTTER DESIGN SPECIAL 1	LIN FT	100	100					
2	2531.503	CONCRETE CURB & GUTTER DESIGN B612	LIN FT	310	310					
2	2531.503	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	2615	2425		190			

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MICHAEL A. KIRSCH
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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

SUMMARY OF ESTIMATED QUANTITIES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 3

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GENERAL NOTES

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					ROADWAY/PMP	STORM SEWER	ROADWAY/PMP	SANITARY SEWER	WATERMAIN	
NOTE	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY
2	2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	610	405		105			
	2531.603	CONCRETE SILL	LIN FT	160	160					
10	2531.603	CONCRETE CURB & GUTTER	LIN FT	685	525		160			
	2531.618	TRUNCATED DOMES	SQ FT	384	384					
	2545.502	LIGHTING UNIT TYPE SPECIAL 1	EACH	9	9					
	2545.502	SERVICE CABINET	EACH	2	2					
	2545.502	EQUIPMENT PAD	EACH	2	2					
	2545.503	2" RIGID STEEL CONDUIT	LIN FT	100	100					
	2545.503	1.5" NON-METALLIC CONDUIT	LIN FT	1270	1270					
	2545.503	UNDERGROUND WIRE 1/C 2 AWG	LIN FT	300	300					
	2545.503	UNDERGROUND WIRE 1/C 14 AWG	LIN FT	5080	5080					
14	2564.502	GUIDE POST TYPE B	EACH	7						7
11	2557.503	WIRE FENCE DESIGN SPECIAL VINYL COATED	LIN FT	94						94
13	2557.503	WIRE FENCE DESIGN 60V-9322	LIN FT	204	204					
3	2563.601	TRAFFIC CONTROL	LUMP SUM	1	1					
3	2563.601	ALTERNATE PEDESTRIAN ROUTE	LUMP SUM	1	1					
	2563.610	FLAGGER	HOUR	75	75					
	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	126	126					
	2563.618	CONSTRUCTION SIGN SPECIAL	SQ FT	300	300					
	2564.502	INSTALL SIGN PANEL	EACH	2			2			
	2564.502	DELINEATOR / MARKER PANEL	EACH	4	4					
	2564.518	SIGN	SQ FT	225	183		42			
	2564.602	INSTALL SIGN	EACH	1			1			
	2564.602	INSTALL SIGN PANEL SPECIAL	EACH	3	3					
	2565.516	TRAFFIC CONTROL SIGNAL SYSTEM B	SYSTEM	1	1					
	2565.616	REVISE SIGNAL SYSTEM A	SYSTEM	1	1					
	2571.502	CONIFEROUS TREE 6' HT B&B	EACH	8			8			
	2571.502	DECIDUOUS TREE 1.5" CAL B&B	EACH	12			12			
	2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	1	1					
	2573.501	EROSION CONTROL SUPERVISOR	LUMP SUM	1		1				
	2573.502	STORM DRAIN INLET PROTECTION	EACH	33		33				
	2573.502	CULVERT END CONTROLS	EACH	2		1				1
	2573.503	SILT FENCE; TYPE MS	LIN FT	2170		670				1500
	2573.503	FLOTATION SILT CURTAIN TYPE STILL WATER	LIN FT	600						600
	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	3200		1350				1850
3, 5	2574.507	COMMON TOPSOIL BORROW	CU YD	300	250		50			
12	2574.507	LOAM TOPSOIL BORROW	CU YD	200			200			
	2574.508	FERTILIZER TYPE 4	POUND	78	30					48
14	2574.607	CLEAN WASHED SAND	CU YD	660						660
14	2574.609	IRON FILINGS	TON	60						60
	2575.504	SODDING TYPE LAWN	SQ YD	3700	3700					
	2575.504	ROLLED EROSION PREVENTION CATEGORY 20	SQ YD	3105	1325					1780
	2575.505	SEEDING	ACRE	0.65	0.25					0.4
	2575.505	WEED SPRAYING	ACRE	0.65	0.25					0.4
	2575.506	WEED SPRAY MIXTURE	GALLON	3	1					2
3	2575.523	RAPID STABILIZATION METHOD 3	M GALLON	100		100				
	2575.608	SEED WET DITCH	POUND	8						8
	2575.608	SEED MIXTURE SPECIAL	POUND	100	100					
	2582.503	4" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	1250	1180		70			
	2582.503	8" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	535	370		165			
	2582.503	12" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	45	45					
	2582.503	24" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	270	270					
	2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)	LIN FT	440	440					
	2582.503	4" DOTTED LINE MULTI COMP GR IN (WR)	LIN FT	21	21					
	2582.503	8" DOTTED LINE MULTI COMP GR IN (WR)	LIN FT	135	75		60			
	2582.503	4" DBLE SOLID LINE MULTI COMP GR IN (WR)	LIN FT	1475	1115		360			
	2582.518	PAVT MSSG PREF THERMO GR IN	SQ FT	660	578		82			
	2582.518	CROSSWALK MULTI COMP GR IN	SQ FT	1393	1393					
	W1.0	PUMP SYSTEM (REUSE) INC. CONTROLS	LUMP SUM	1						1
	W2.0	REUSE TREATMENT UNITS (UV FILTRATION - REUSE)	LUMP SUM	1						1

No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-SEQ.dwg

DESIGNED BY:	RJG
DRAWN BY:	RJG
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

SUMMARY OF ESTIMATED QUANTITIES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 4

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GENERAL TRAFFIC CONTROL NOTES

1. ADVANCED NOTIFICATION SIGNAGE WITH A SCHEDULED START DATE IS REQUIRED TO BE PLACED 7 CALENDAR DAYS PRIOR TO THE START OF PAVEMENT REMOVAL OR ANY SUBSTANTIAL WORK. ONCE THE SIGNAGE IS IN PLACE, THE SCHEDULE MUST BE MAINTAINED. INTERIM DETOURS ON ROADWAYS OUTSIDE OF PROJECT LIMITS WILL ALSO REQUIRE 7–DAY ADVANCE NOTICE SIGNS.
2. MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES THROUGHOUT CONSTRUCTION. DRIVEWAYS SHALL BE RAMPED SO THAT DROP–OFFS ARE NO MORE THAN TWO INCHES IN HEIGHT. MAINTAIN ACCESS TO AND FROM THE SITE FOR CONCURRENT CONSTRUCTION PROJECTS, PRIVATE UTILITY IMPROVEMENTS/RELOCATIONS, AND AS OTHERWISE PROVIDED FOR IN THE SPECIFICATIONS.
3. CONSTRUCT COMMERCIAL DRIVEWAY APRONS AND VALLEY GUTTERS WITH HIGH EARLY STRENGTH CONCRETE. USE OF HIGH EARLY STRENGTH CONCRETE WILL BE PAID AT THE BID ITEM 8" CONCRETE DRIVEWAY PAVEMENT UNIT PRICE.
4. MAINTAIN GARBAGE AND RECYCLING SERVICE AT ALL TIMES. PROVIDE ACCESS FOR GARBAGE AND DELIVERY VEHICLES. WHEN INFEASIBLE TO MAINTAIN SUCH ACCESS, COLLECT CONTAINERS, RELOCATE THEM TO A LOCATION WHERE SUITABLE ACCESS CAN BE PROVIDED, AND RETURN CONTAINERS IN GOOD WORKING CONDITION TO THE SAME PROPERTY FROM WHICH THEY WERE TAKEN. COSTS FOR PROVIDING ACCESS OR HAULING CONTAINERS TO AN ACCESSIBLE LOCATION ARE INCIDENTAL.
5. INSTALL ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MN MUTCD) INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS. TRAFFIC CONTROL NOT IN COMPLIANCE WITH MN MUTCD WILL BE SUBJECT TO VIOLATION IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
6. THE ITEM "TRAFFIC CONTROL" BID AS "LUMP SUM" INCLUDES ALL COSTS FOR PROVIDING TEMPORARY CONTROLS SPECIFIED IN THE PLAN AND OTHER TRAFFIC CONTROL REQUIRED PER THE MN/MUTCD DUE TO THE CONTRACTORS OPERATIONS FOR COMPLETION OF THE PROJECT INCLUDING BUT NOT LIMITED TO, WORKING UNDER TRAFFIC, TEMPORARY ROAD CLOSURES IN FULL OR TO THRU TRAFFIC, TEMPORARY LANE CLOSURES, ADJUSTMENTS TO THE TRAFFIC CONTROL PLAN FOR LARGE AND SMALL SCALE STAGING OPERATIONS, AND NECESSARY DETOURS FOR MOTORISTS, BICYCLISTS, AND/OR PEDESTRIANS.THE AMOUNT BID SHALL ALSO INCLUDE SUFFICIENT TRAFFIC CONTROL FOR WARNING OF POTENTIAL HAZARDS DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO FLASHING BARRICADES AROUND EQUIPMENT AND OBSTRUCTIONS.
7. PREVENT TRACKING OF BITUMINOUS MATERIAL ONTO THE ADJACENT STREETS. IF MATERIAL IS TRACKED ONTO ADJACENT STREETS, RESTORE THE PAVEMENT AND STRIPING TO THE SATISFACTION OF THE AGENCY HAVING JURISDICTION OVER THE ROADWAY AND CITY.
8. CONTRACTOR SHALL SUBMIT ANY CHANGES TO THE TRAFFIC CONTROL PLAN TO THE ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES. USE OF FLAGGERS MAY BE REQUIRED AND IS INCIDENTAL.
9. DELINEATE TRAFFIC LANES TO BE USED DURING CONSTRUCTION TO KEEP VEHICLES A SAFE DISTANCE AWAY FROM ANY EXCAVATION. PROJECT A 1:2 OR FLATTER SLOPE FROM THE BOTTOM OF THE EXCAVATION TO THE EDGE OF THE TRAFFIC LANE.
10. CONFINE ANY EQUIPMENT OR MATERIALS LEFT IN THE ROADWAY OVERNIGHT TO THE PROJECT LIMITS. DO NOT RESTRICT THE REQUIRED 11–FOOT LANES. PROTECT THE EQUIPMENT AND MATERIALS WITH TYPE 1 BARRICADES ON ALL SIDES VISIBLE TO TRAFFIC.
11. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

UTILITY CONSTRUCTION NOTES

1. WATER AND SANITARY SERVICE LOCATIONS SHOWN ARE APPROXIMATE AND ALL SERVICES MAY NOT BE SHOWN.
2. ALL CONNECTIONS TO EXISTING UTILITIES (WM, SAN, STM, ETC.) SHALL BE FIELD VERIFIED FOR LOCATION AND ELEVATION PRIOR TO SCHEDULING THE WORK (INCIDENTAL)
3. TRENCH BOXES OR OTHER TRENCH STABILIZATION METHODS MAY BE REQUIRED DURING CONSTRUCTION TO STAY WITHIN CONSTRUCTION LIMITS AND MINIMIZE REMOVAL LIMITS (INCIDENTAL).
4. UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT AREA. HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO THE START OF CONSTRUCTION AND COORDINATE THE WORK SCHEDULE WITH UTILITY COMPANY CREWS PERFORMING RELOCATION WORK. CONTACT EACH RESPECTIVE UTILITY COMPANY AND SCHEDULE WORK AROUND WORK PERFORMED BY PRIVATE UTILITY COMPANIES. SHOW PRIVATE UTILITY WORK ON THE PROJECT SCHEDULE AND UPDATE FOR EACH WEEKLY CONSTRUCTION MEETING.
5. REFER TO PROJECT SPECIFICATIONS FOR STRUCTURE CASTING FRAME & COVER REQUIREMENTS.
6. COMPLETE UTILITY CONSTRUCTION PRIOR TO RECLAMATION OR PAVEMENT REMOVAL
7. CONTRACTOR SHALL COMPLETE ALL TIE CARDS FOR ANY EXISTING SERVICES THAT WERE MODIFIED, RELOCATED OR ANY NEW SERVICES.

CONSTRUCTION NOTES:

1. THE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38–22, ENTITLED STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES.
2. SAW CUT EXISTING BITUMINOUS PAVEMENT THAT IS ADJACENT TO ANY NEW PAVEMENT. COAT THE SAWED EDGE WITH TACK COAT PRIOR TO PAVING. (INCIDENTAL)
3. ALL USES OF THE WORD "INCIDENTAL" IN THESE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO MEAN INCIDENTAL WORK FOR WHICH NO DIRECT COMPENSATION SHALL BE MADE.
4. TAKE REASONABLE CARE TO AVOID DAMAGE TO PRIVATE IRRIGATION SYSTEMS AND INVISIBLE DOG FENCES. IF PRIVATE IRRIGATION SYSTEMS OR INVISIBLE DOG FENCES ARE DAMAGED DUE TO CONSTRUCTION OPERATIONS, NOTIFY THE CITY IMMEDIATELY. EXPOSE DAMAGED SPRINKLER HEADS AND LEAVE ON THE LAWN OUTSIDE OF THE WORK AREA. PINCH SHUT DAMAGED IRRIGATION PIPES AND LEAVE ABOVE GROUND.
5. PROVIDE NO GREATER THAN A TWO INCH DROP OFF AT ACCESS POINTS ALONG THE CURB LINE. WITH PROTECTION, DROP–OFFS GREATER THAN TWO INCHES WILL BE ALLOWED DURING ACTIVE CONSTRUCTION BUT NOT BEFORE OR AFTER.
6. ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R.O.W. IN ACCORDANCE WITH SPECIFICATION 2104.
7. RE–ESTABLISH ALL TURF THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES. MINIMIZE THE IMPACTED AREA AND PROTECT EXISTING TURF TO THE GREATEST EXTENT POSSIBLE.
8. STRIP TURF AND SALVAGE TOPSOIL FROM AREAS TO BE DISTURBED BY CONSTRUCTION. SALVAGING AND REUSING TOPSOIL SHALL BE INCIDENTAL.
9. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ON THE PROJECT SITE. COORDINATE WITH THE CITY FOR ACCESS TO WATER IF NECESSARY FOR CONTROLLING DUST.
10. COORDINATE WITH POSTAL PATRONS AND THE LOCAL POSTAL AUTHORITY TO RELOCATE MAILBOXES AS NECESSARY DURING CONSTRUCTION AND TO REINSTALL MAILBOXES AFTER CONSTRUCTION. IN NO CASE SHALL A POSTAL PATRON BE WITHOUT A POST CARRIER ACCESSIBLE MAILBOX AS DESIGNATED BY THE POSTMASTER. CONTRACTOR SHALL COORDINATE WITH RESIDENTS AND BUSINESS OWNERS OF TEMPORARY RELOCATION OF MAILBOXES.
11. SUBMIT TO THE ENGINEER FOR APPROVAL THE LOCATION OF STAGING AREAS, STOCKPILE AREAS, MATERIAL, HAUL ROUTES AND EQUIPMENT STORAGE AREAS FOR EACH PROJECT. PROPER SAFETY SIGNING, DELINEATION, SECURITY, EROSION CONTROL, AND RESTORATION IS INCIDENTAL.
12. CONTRACTOR SHALL PROTECT EXISTING FOLIAGE, CLEARING AND GRUBBING OF EXISTING FOLIAGE SHALL BE AS DIRECTED BY THE ENGINEER, AS NECESSARY, CONTRACTOR SHALL SELECTIVELY TRIM BRANCHES AND LIMBS PRIOR TO RIPPING AND FURTHER DAMAGING TREES AND SHRUBS, COORDINATE WITH ENGINEER (INCIDENTAL).
13. CONTRACTOR SHALL COMPLETE UTILITY IMPROVEMENTS PRIOR TO PAVING THE FINAL WEARING COURSE.
14. CONTRACTOR SHALL COORDINATE AND SCHEDULE NECESSARY RAIL ROAD PROTECTION AND MONITORING WITH TWIN CITIES & WESTERN RAIL ROAD, PRIOR TO ANY CONSTRUCTION ACTIVITIES OCCURRING WITHIN THE RAIL ROAD ZONE OF INFLUENCE (INCIDENTAL).

REMOVAL & ABANDONMENT NOTES:

1. PRIOR TO REMOVALS, INSTALL EROSION CONTROL DEVICES.
2. REMOVALS SHALL BE LIMITED TO AREAS WITHIN THE DEFINED PROJECT LIMITS. IF CONTRACTORS OPERATIONS CAUSE DAMAGE OR REQUIRE RESTORATION OUTSIDE OF DEFINED PROJECT LIMITS, REPAIR OR RESTORE AT NO ADDITIONAL COST TO THE CITY.
3. FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS IN DISPOSING OF MATERIALS REMOVED FROM THIS SITE.
4. REMOVE ALL TREES, SHRUBS, AND VEGETATION DESIGNATED FOR REMOVAL BY THE ENGINEER.
5. PROTECT ALL ITEMS DESIGNATED FOR SALVAGE AND PROVIDE APPROPRIATE STORAGE UNTIL RE–INSTALLATION. ANY ITEMS DESIGNATED TO BE SALVAGED WHICH ARE DAMAGED SHALL BE REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER. REPAIR OF DAMAGED ITEMS SHALL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
6. ANY LANDSCAPING MATERIALS WITHIN R.O.W. TO BE REMOVED SHALL BE DESIGNATED IN ADVANCE BY THE FIELD ENGINEER AND SHALL BE CONSIDERED INCIDENTAL.
7. DURING CONSTRUCTION, PROTECT ALL ITEMS NOT IDENTIFIED FOR REMOVAL (INCIDENTAL).
8. REMOVAL & DISPOSAL OF EXCESS RECLAIM SHALL BE PAID FOR AS PART OF THE PLAN QUANTITY (P) FOR THE "COMMON EXCAVATION" BID ITEM.
9. ALL SALVAGED SIGNS SHALL BE RETURNED TO PUBLIC WORKS UNLESS OTHERWISE STATED (INCIDENTAL).
10. ENGINEER TO IDENTIFY AND MARK CONCRETE AND BITUMINOUS DRIVEWAY REMOVAL LOCATIONS.
11. ENGINEER TO IDENTIFY AND MARK CONCRETE AND BITUMINOUS WALK REMOVAL LOCATIONS.
12. CONTRACTOR SHALL COORDINATE AND NOTIFY TWIN CITIES & WESTERN AND NECESSARY PARTNERS PRIOR TO ANY REMOVALS OR ABANDONMENTS WITHIN THE RAIL ROAD ZONE OF INFLUENCE (INCIDENTAL).

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL FENCE AND SEDIMENT CONTROL LOG AS SHOWN AND AS DIRECTED BY ENGINEER IN FIELD. EROSION FENCE AND SEDIMENT CONTROL LOG TO BE REMOVED BY CONTRACTOR AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.
2. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ROCK ENTRANCES AT POINTS OF EXIT FROM PAVEMENT AS DIRECTED BY ENGINEER.
3. EROSION CONTROL MUST BE INSTALLED AND INSPECTED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES INCLUDING TREE REMOVAL AND GRADING. – CONTACT CITY OF CHANHASSEN ENGINEERING DEPARTMENT TO SCHEDULE AN INSPECTION – 952–227–1160.
4. THE CONTRACTOR SHALL ABIDE BY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DICTATED BY THE CITY OF CHANHASSEN AND WATERSHED DISTRICT(S).
5. STRAW MULCH SHALL NOT BE USED FOR TEMPORARY OR FINAL STABILIZATION UNLESS APPROVED BY THE CITY ENGINEER.
6. NATURAL TOPOGRAPHY AND SOIL CONDITIONS MUST BE PROTECTED, INCLUDING RETENTION ONSITE OF NATIVE TOPSOIL TO THE GREATEST EXTENT POSSIBLE.
7. ADDITIONAL MEASURES, SUCH AS HYDRAULIC MULCHING AND OTHER PRACTICES AS SPECIFIED BY THE DISTRICT AND CITY STAFF MUST BE USED ON SLOPES OF 3:1 (H:V) OR STEEPER TO PROVIDE ADEQUATE STABILIZATION.
8. FINAL SITE OF STABILIZATION MEASURES MUST SPECIFY THAT AT LEAST SIX INCHES OF TOPSOIL OR ORGANIC MATTER BE SPREAD AND INCORPORATED INTO THE UNDERLYING SOIL DURING FINAL SITE TREATMENT WHEREVER TOPSOIL HAS BEEN REMOVED.
9. CONSTRUCTION SITE WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE MUST BE PROPERLY MANAGED.
10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS MUST BE MAINTAINED UNTIL COMPLETION OF CONSTRUCTION AND VEGETATION IS ESTABLISHED SUFFICIENTLY TO ENSURE STABILITY OF THE SITE, AS DETERMINED BY THE WATERSHED DISTRICT AND CITY STAFF.
11. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MUST BE REMOVED UPON FINAL STABILIZATION.
12. SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE A SOIL COMPACTION TESTING PRESSURE OF LESS THAN 1,400 KILOPASCALS OR 200 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF SOIL PROFILE WHILE TAKING CARE TO PROTECT UTILITIES, TREE ROOTS, AND OTHER EXISTING VEGETATION.
13. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 CALENDAR DAYS AFTER LAND–DISTURBING WORK HAS TEMPORARILY OR PERMANENTLY CEASED ON A PROPERTY THAT DRAINS TO AN IMPAIRED WATER, WITHIN 14 DAYS ELSEWHERE.
14. THE PERMITEE MUST, AT A MINIMUM, INSPECT, MAINTAIN AND REPAIR ALL DISTURBED SURFACES AND ALL EROSION AND SEDIMENT CONTROL FACILITIES AND SOIL STABILIZATION MEASURES EVER DAY WORK IS PERFORMED ON THE SITE AND AT LEAST WEEKLY UNTIL LAND–DISTURBING ACTIVITY HAS CEASED. THEREAFTER, THE PERMITTEE MUST PERFORM THESE RESPONSIBILITIES AT LEAST WEEKLY UNTIL VEGETATIVE COVER IS ESTABLISHED. THE PERMITTEE WILL MAINTAIN A LOG OF ACTIVITIES UNDER THIS SECTION FOR INSPECTION BY THE DISTRICT AND CITY ON REQUEST.

No.	Date	Revisions	App.

DRAWING NAME: 2026–MARKET–NOTES.dwg
DESIGNED BY: MAK
DRAWN BY: RCH
CHECKED BY: MAK
DATE: 2/20/2026
PROJECT NO. 25–02

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

GENERAL CONSTRUCTION NOTES

CITY PROJECT 25–02
S.A.P. 194–123–002

SHEET NO. 5 / 169

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UTILITY CONTACTS

AGENCY	NAME	PHONE NUMBER	EMAIL
ARVIG	BRIAN WOCHNICK	651-333-1377	METROOSP@ARVIG.COM
CENTER POINT ENERGY	JUSTIN KLINGL	612-321-4476	JUSTIN.KLINGL@CENTERPOINTENERGY.COM
CITY OF CHANHASSEN	GEORGE BENDER	952-227-1300	GBENDER@CHANHASSENMN.GOV
COMCAST	MARK MACCHIA	612-834-6457	MARK_MACCHIA2@COMCAST.COM
LUMEN (CENTURYLINK)	CHUCK DAHER	612-298-2825	CDAHER@CONGRUEX.COM
MCI/VERIZON	STEVEN HOTDVEDT	800-624-9675	SHOTVEDT@MI-TECH.US
MEDIACOM	KEITH DAVIS	952-923-1073	KDAVIS@MEDIACOMCC.COM
METRONET FIBER	DANIEL HOLMQUIST	507-219-8081	DANIEL.HOLMQUIST@METRONET.COM
MINNESOTA VALLEY ELECTRIC	CURT CORDT	952-492-8210	CCORDT@MVEC.NET
XCEL ENERGY	JEFF V SCHEI	952-470-3339	JEFF.V.SCHEI@XCELENERGY.COM
ZAYO BANDWITH	TANNA CARVER	763-257-5730	TCARVER@CONGRUEX.COM
MNDOT TRAFFIC	ASHLEY HANSEN	651-7575-9497	ASHLEY.HANSEN@STATE.MN.US
TWIN CITIES AND WESTERN RAIL ROAD	GREG GRAHAM	320-864-7214	GGRAHAM@TCWR.NET

BASIS OF QUANTITIES

ITEM NO.	DESCRIPTION	BASIS
2211	AGGREGATE BASE CLASS 5	140 LBS/CU FT*
2360	TYPE SP 9.5 WEARING COURSE MIX (2,C)	113 LBS/SQ YD-INCH
2360	TYPE SP 9.5 WEARING COURSE MIX (3,C)	113 LBS/SQ YD-INCH
2360	TYPE SP 12.5 WEARING COURSE MIX (4,C)	113 LBS/SQ YD-INCH
2360	TYPE SP 12.5 NON-WEAR COURSE MIX (3;B)	113 LBS/SQ YD-INCH
2360	TYPE SP 12.5 NON-WEAR COURSE MIX (3,C)	113 LBS/SQ YD-INCH
2575	MNDOT SEED WET DITCH	20 LBS/ACRE
2575	SEED MIXTURE SPECIAL	400 LBS/ACRE
2575	FERTILIZER - MNDOT TYPE 4	120 LBS/ACRE

* BASIS OF QUANTITY IS FOR THE COMPACTED VOLUME CONDITION (CV)

MnDOT STANDARD PLANS

THE FOLLOWING STANDARD PLANS, APPROVED BY MnDOT, SHALL APPLY ON THIS PROJECT.

PLAN NO.	DESCRIPTION	PAGES
5-297.250	PEDESTRIAN CURB RAMP DETAILS	1 - 6
5-297.718	SQUARE-TUBE SIGN MOUNTING DETAILS	1 - 3
5-297.722	FIN BASE DETAILS	1
5-297.731	SIGN MOUNTING DETAILS FOR SIGNAL MAST ARMS	1
5-297.885	ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSHBUTTON STATION AND LOCATION	1 - 2
5-297.874	PREFORMED RIGID PVC CONDUIT LOOP DETECTORS	1

No.	Date	Revisions	App.

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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

GENERAL CONSTRUCTION NOTES

CITY PROJECT 25-02
S.A.P. 194-123-002

SHEET NO. 6
169

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MnDOT STANDARD PLATES	
THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.	
PLATE NO.	DESCRIPTION
1070N	SUPPLEMENTAL PAVEMENT REINFORCEMENT
1103L	TYPICAL DOWEL BAR ASSEMBLY (2 SHEETS)
1210G	CONCRETE PAVEMENT ADJACENT TO RAILWAY CROSSING
3000M	REINFORCED CONCRETE PIPE (6 SHEETS)
3001B	REINFORCED CONCRETE REDUCER PIPE
3002B	REINFORCED CONCRETE INCREASER PIPE
3006H	GASKET JOINT FOR R.C. PIPE (2 SHEETS)
3007F	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
3014L	REINFORCED CONCRETE PIPE ARCH (3 SHEETS)
3020H	REINFORCED PRECAST CONCRETE CATTLE PASS (60" & 72")
3021B	3 X 3 PRECAST CONCRETE BOX CULVERT (2 SHEETS)
3022C	PRECAST CONCRETE SAFETY APRON (3 SHEETS)
3065C	CONNECTION BETWEEN EXISTING CULV. & NEW "C" CULV. BARREL (2 SHEETS)
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE–ARCH
3133D	RIPRAP AT RCP OUTLETS
3139B	RIPRAP AT PRECAST CONCRETE END SECTIONS
3143C	INSPECTION TEES
3145G	CONCRETE PIPE OR PRECAST BOX CULVERT TIES
4000J	MANHOLE OR CATCH BASIN (MASONRY, FIELD CONSTRUCTION) – DESIGN A
4002F	MANHOLE OR CATCH BASIN (MASONRY, FIELD CONSTRUCTION) – DESIGN C
4003B	30" PRECAST CATCH BASIN – DESIGN N
4005M	MANHOLE OR CATCH BASIN TYPE A & B CONE SECTIONS PRECAST – DESIGN F
4006L	MANHOLE OR CATCH BASIN PRECAST – DESIGNS G AND H
4007C	PRECAST MECHANICAL JOINT SEWER MANHOLE
4008F	CATCH BASIN (SECTIONAL CONCRETE PIPE) – DESIGN I
4009I	MANHOLE OR CATCH BASIN (SECTIONAL CONCRETE PIPE) – DESIGN J
4010I	CONCRETE ADJUSTING RINGS
4011E	PRECAST CONCRETE BASE
4018A	MANHOLE OR CATCH BASIN (REDUCER CONE SECTION PRECAST) – DESIGN D
4020J	MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS)
4021F	PRECAST CURB OPENING CATCH BASIN
4022A	MANHOLE OR CATCH BASIN COVER (3 FT. X 2 FT. OPENING)
4024A	48" DIA. PRECAST SHALLOW DEPTH CATCH BASIN – DESIGN SD
4025B	DROP INLETS OR CATCH BASINS – DESIGN DI (CONCRETE & METAL)
4026B	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4108F	ADJUSTING RINGS FOR CATCH BASINS AND MANHOLES
4110F	COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) –CASTING NO. 715 AND 716
4125D	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) –CASTING NO. 806
4126F	CATCH BASIN FRAME CASTING –CASTING NO. 801
4129G	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) – CASTING NO. 802A
4132G	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) – CASTING NO. 805
4133A	CURB BOX CASTING FOR CATCH BASIN – CASTING NO. 824

MnDOT STANDARD PLATES	
THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.	
PLATE NO.	DESCRIPTION
4134A	CURB BOX CASTING FOR CATCH BASIN (FOR DESIGN B CURBS)– CASTING NO. 825
4143E	STOOL GRATE & CONCRETE FRAME (MEDIAN DRAINS) – CASTING NO. 731
4149C	GRATE CASTING FOR CATCH BASIN – CASTING NO. 810
4150C	GRATE CASTING FOR ALL PIPE DRAINAGE STRUCTURES
4151B	GRATE CASTING FOR CATCH BASIN (SQUARE TYPE) – CASTING NO. 811
4152C	CATCH BASIN GRATE CASTING – CASTING NO. 814A
4153A	CATCH BASIN GRATE CASTING – CASTING NO. 815
4154B	CATCH BASIN GRATE CASTING – CASTING NO. 816
4155A	ADA GRATE INLET CASTING – CASTING NO. 817
4160D	CURB BOX CASTING FOR CATCH BASIN – CASTING NO. 823A AND 833A
4161F	CURB BOX CASTING FOR CATCH BASIN – CASTING NO. 821B, 822 AND 831A
4180J	MANHOLE OR CATCH BASIN STEP
7000E	INTEGRANT CURBS (DESIGN B, DESIGN V AND DESIGN D)
7020K	CONCRETE CURB (DESIGN B, DESIGN V, DESIGN S, DESIGN DR AND DESIGN BR)(2 SHEETS)
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7065C	BITUMINOUS CURB
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
7102K	CONCRETE CURB AND GUTTER (DESIGN D, DESIGN S, AND DESIGN R)
7105C	CONCRETE MEDIAN (MOUNTABLE TYPE)
7107I	ENTRANCE NOSE (URBAN DESIGN)
7108G	EXIT NOSE (URBAN DESIGN)
7113A	CONCRETE APPROACH NOSE DETAIL
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)
8106D	EQUIPMENT PAD B
8107A	RLF EQUIPMENT PAD FOUNDATION LAYOUT
8110E	TRAFFIC SIGNAL BRACKETING (POLE MOUNTED)
8111E	TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUNTED) (3 SHEETS)
8112I	PEDESTAL FOUNDATION (TRAFFIC CONTROL SIGNALS)
8117G	PRECAST CONCRETE HAND HOLE WITH VEHICLE LOAD
8118D	SERVICE EQUIPMENT & POLE TRAFFIC CONTROL SIGNALS
8119C	GROUND MOUNTED CABINET FOUNDATION
8122F	PEDESTAL AND PEDESTAL BASE (FOR TRAFFIC CONTROL SIGNALS SUPPORT) (2 SHEETS)
8124A	POLE AND MAST ARM TYPE TS FOR MAST ARM LENGTHS 15' TO 55' (12 SHEETS)
8125A	POLE AND MAST ARM TYPE TS FOR MAST ARM LENGTHS 60' TO 80' (13 SHEETS)
8129A	SHIM AND WASHER
8130E	SAW CUT LOOP DETECTORS
8132B	PREFORMED RIGID PVC CONDUIT LOOP DETECTOR – LAYOUT DETAILS, LAYOUT NOTES, TYPICAL INSTALLATION (3 SHEETS)
8150C	INSTALLATION OF CULVERT MARKERS
9000E	APPROACHES AND ENTRANCES – RECOMMENDED STANDARDS
9322K	CHAIN LINK FENCE

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–NOTES.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

GENERAL CONSTRUCTION NOTES

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 7

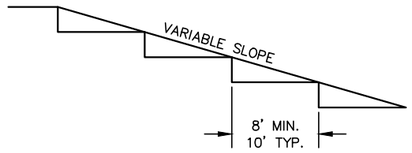
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A

EARTHWORK SUMMARY

EARTHWORK						
				EARTHWORK 2106.507	EARTHWORK 2106.507	EARTHWORK 2106.507
ALIGNMENT	STATION RANGE	OFFSET	NOTES	EXCAVATION - COMMON 2106 CU YD	EXCAVATION - CHANNEL AND POND 2106 CU YD	COMMON EMBANKMENT (CV) 2106 CU YD
Market Blvd	100+00.00 - 124+00.00	VARIES		7084		206
BMP-MNDOT				1075		5
BMP-MARKET ST				1701		50
CORP STORAGE					290	15
PROJECT TOTALS				9860	290	276

1. UNLESS PROVIDED FOR AS A PAY ITEM, ALL REMOVAL OF BITUMINOUS CURB, ROCK, OR CONCRETE RUBBLE WILL BE CONSIDERED INCIDENTAL. THE DISPOSAL OF REMOVED BITUMINOUS, CONCRETE CURB, CONCRETE PIPE, CONCRETE WALK, CONCRETE RUBBLE, ROCK, METAL PIPE, AND TREES IS THE RESPONSIBILITY OF THE CONTRACTOR. DISPOSAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF 2104.3D3.
2. UNLESS DIRECTED OTHERWISE BY THE ENGINEER, ANY MATERIAL THAT IS FOUND TO BE UNNECESSARY FOR THE CONSTRUCTION OF THE ROADWAY AND IF DISPOSAL OF SAME BECOMES NECESSARY, ON OR OFF THE PROJECT, THE DISPOSAL AND ALL RELATED ITEMS WILL BE CONSIDERED INCIDENTAL.
3. SEE CROSS SECTIONS FOR SUBCUT DEPTH AND LOCATIONS. SUBCUT QUANTITIES ARE INCLUDED IN COMMON EXCAVATION. ADDITIONAL SUBGRADE CORRECTIONS, IF REQUIRED, WILL BE DESIGNATED BY THE ENGINEER AND PAID FOR AS COMMON EXCAVATION. THE UPPER 2' OF ANY SUBCUT WILL BE FILLED WITH SELECT GRANULAR MATERIAL. INSTALLATION OF WEEP HOLES IN SUBCUT AREAS WILL BE REQUIRED, PLACEMENT AND LOCATION SHALL BE AT THE DISCRETION OF THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL.
4. DITCH BOTTOMS AND TOPS OF BACKSLOPES ARE TO BE ROUNDED AS DIRECTED BY THE ENGINEER AND ALL WORK WILL BE CONSIDERED INCIDENTAL. SEE CROSS SECTIONS FOR DITCH DEPTHS.
5. ONLY SUITABLE MATERIAL AS APPROVED BY THE ENGINEER SHALL BE USED FOR ROADBED CONSTRUCTION WITHIN THE 2:1 SLOPES AS SHOWN ON THE TYPICAL SECTIONS. WHERE THE PROPOSED ALIGNMENT EXTENDS OFF THE EXISTING ROADWAY ALL TOPSOIL SHALL BE REMOVED FROM WITHIN THE 2:1 SLOPES.
6. LOCATION AND PREPARATION OF ENTRANCE & APPROACH CONSTRUCTION AND CULVERT INSTALLATION ARE TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. INSLOPES OF ENTRANCES AND APPROACHES SHALL BE 1:6 IN THE RECOVERY AREA OR TO THE ROW WHICHEVER IS GREATER. THIS WILL BE CONSIDERED INCIDENTAL.
7. ALL SHAPING AROUND CULVERT ENDS AND STORM SEWER INLETS & OUTLETS, AS DIRECTED BY THE ENGINEER, WILL BE CONSIDERED INCIDENTAL.
8. NO WORK, INCLUDING THE STOCKPILING OF TOPSOIL, SHALL EXTEND BEYOND THE RIGHT-OF-WAY, TEMPORARY EASMENT, OR THE DRAINAGE & UTILITY EASEMENT UNLESS THE CONTRACTOR HAS PROVIDED THE CITY WITH A COPY OF THE OWNERS WRITTEN PERMISSION FOR SUCH WORK.



DETAIL NO. 1

BENCH CONSTRUCTION

(TO BE USED ON ALL FILL SLOPES STEEPER THAN 1V:4H)
SEE MnDOT SPEC. 2106.3D FOR MORE INFORMATION.

NOTE:

1) EMBANKMENT QUANTITIES ASSUME 0% SHRINKAGE FACTOR.
2) TOPSOIL STRIPPING ASSUMES 6" OF TOPSOIL IN ALL AREAS OF DISTURBANCE.
2) EARTHWORK QUANTITIES DO NOT INCLUDE PAVEMENT REMOVALS.
3) PAVEMENT REMOVAL ASSUMES 6" OF ROADWAY BITUMINOUS PAVEMENT AND 3" FOR BITUMINOUS TRAIL, 6" CONCRETE WALK AND BITUMINOUS DRIVEWAYS

No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-EW.dwg

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PROJECT NO.	25-02

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MICHAEL A. KIRSCH

DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

EARTHWORK TABULATION

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 8

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MARKET BLVDTotal Volume Table				
Station	CUT VOLUME CU YD	FILL VOLUME CU YD	CUMULATIVE CUT VOL CU YD	CUMULATIVE FILL VOL CU YD
100+00.00	0.00	0.00	0.00	0.00
100+50.00	0.00	0.00	0.00	0.00
101+00.00	10.37	0.00	10.37	0.00
101+50.00	18.20	4.35	28.57	4.35
102+00.00	14.40	6.46	42.97	10.82
102+50.00	48.23	2.20	91.20	13.02
103+00.00	274.01	0.08	365.21	13.09
103+14.88	128.02	0.00	493.22	13.09
103+50.00	162.78	0.00	656.00	13.09
104+00.00	78.52	0.37	734.51	13.46
104+50.00	64.22	3.28	798.73	16.74
105+00.00	59.28	5.31	858.02	22.05
105+50.00	237.33	2.41	1095.34	24.46
105+90.77	317.04	40.96	1412.38	65.42
106+00.00	70.56	16.45	1482.94	81.87
106+50.00	413.21	50.78	1896.15	132.65
106+86.59	208.71	26.36	2104.86	159.01
107+00.00	49.76	14.08	2154.62	173.09
107+50.00	327.17	21.11	2481.79	194.20
108+00.00	457.73	0.00	2939.52	194.20
108+50.00	448.60	0.00	3388.12	194.20
108+94.63	288.88	0.00	3677.00	194.20
109+00.00	24.18	0.00	3701.18	194.20
109+50.00	200.09	0.19	3901.27	194.39
110+00.00	172.36	0.19	4073.63	194.59
110+50.00	166.22	0.00	4239.85	194.59
111+00.00	156.94	0.00	4396.79	194.59
111+50.00	152.67	0.00	4549.46	194.59
112+00.00	159.51	0.00	4708.97	194.59
112+15.79	55.03	0.00	4764.00	194.59
112+50.00	113.64	0.21	4877.64	194.80
113+00.00	116.30	0.66	4993.94	195.46
113+50.00	108.51	1.72	5102.45	197.18
114+00.00	167.86	5.12	5270.31	202.30
114+50.00	190.14	3.70	5460.45	206.00

MARKET BLVDTotal Volume Table				
Station	CUT VOLUME CU YD	FILL VOLUME CU YD	CUMULATIVE CUT VOL CU YD	CUMULATIVE FILL VOL CU YD
115+00.00	236.54	0.10	5696.99	206.10
115+50.00	400.57	0.03	6097.56	206.13
115+66.20	185.88	0.00	6283.43	206.13
116+00.00	227.78	0.01	6511.21	206.14
116+25.74	0.00	0.00	6511.21	206.14
116+50.00	82.10	0.08	6593.31	206.22
117+00.00	193.74	0.16	6787.05	206.38
117+27.99	36.94	0.00	6823.99	206.38
117+50.00	28.45	0.00	6852.44	206.38
118+00.00	25.55	0.00	6877.99	206.38
118+50.00	0.00	0.00	6877.99	206.38
119+00.00	0.00	0.00	6877.99	206.38
119+40.57	26.00	0.00	6903.99	206.38
119+50.00	11.66	0.00	6915.64	206.38
120+00.00	29.73	0.00	6945.37	206.38
120+15.77	0.00	0.00	6945.37	206.38
120+31.56	0.00	0.00	6945.37	206.38
120+47.35	−0.34	0.00	6945.04	206.38
120+50.00	0.04	0.00	6945.08	206.38
121+00.00	0.00	0.00	6945.08	206.38
121+50.00	25.27	0.00	6970.35	206.38
121+64.53	17.26	0.00	6987.61	206.38
122+00.00	24.20	0.00	7011.81	206.38
122+50.00	0.00	0.00	7011.81	206.38
123+00.00	0.00	0.00	7011.81	206.38
123+37.62	24.10	0.00	7035.91	206.38
123+50.00	15.87	0.00	7051.79	206.38
124+00.00	32.10	0.00	7083.89	206.38

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No.	Date	Revisions	App.

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DESIGNED BY:	RJG
DRAWN BY:	RJG
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PROJECT NO.	25-02

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

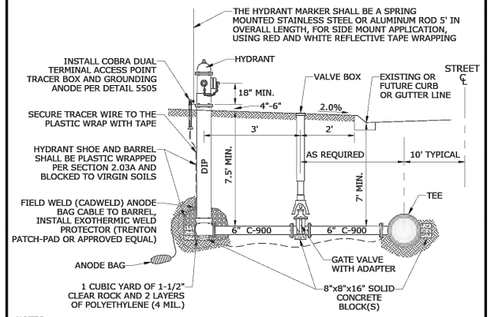
EARTHWORK TABULATION

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 9 / 169

HYDRANTS SHALL BE CLOW MEDALLION (SHOWN) MUELLER SUPER CENTURION OR WATEROUS PACER.

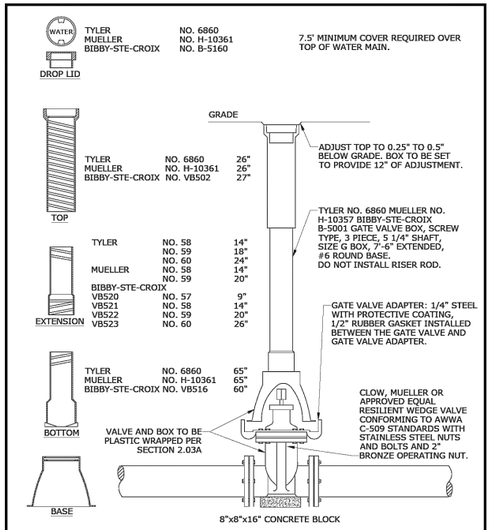
ALL HYDRANTS MUST BE PRE-APPROVED BY THE CITY



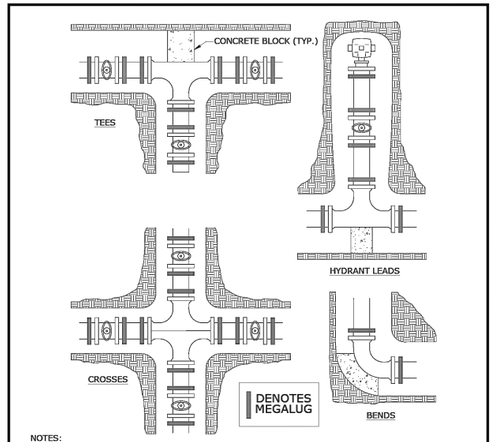
NOTES:

1. ALL HYDRANTS SHALL HAVE WEEP HOLES.
2. HYDRANT BURY DEPTH SHALL BE AS PER MANUFACTURES RECOMMENDATION WITH A MINIMUM OF 7.5' COVER OVER HYDRANT LEAD.
3. ALL PAINTED SURFACES SHALL BE SUBJECT TO TWO YEAR WARRANTY PERIOD AS NOTED IN SECTION 2.10 OF THE WATERMAIN SPECIFICATIONS.
4. HYDRANT INSTALLATION SHALL INCLUDE A HYDRANT MARKER.
5. ALL JOINTS SHALL BE RESTRAINED VIA MEGA-LUGS MECHANICAL JOINT RESTRAINT.
6. ALL HYDRANT TO BE PLUMB TO VERTICAL AXIS, MAXIMUM ALLOWABLE TO BE 1/2" PER FOOT OF HYDRANT.
7. HYDRANT TO BE SECURELY COVERED WITH PLASTIC WRAP OR BAG TO INDICATE THAT IT IS OUT OF SERVICE.
8. HYDRANT SHOE AND BARREL SHALL BE PLASTIC WRAPPED PER SPECIFICATION 2.03A.
9. CONTRACTOR SUPPLIED ANODE BAG CABLE SHALL INSTALLED 1' BELOW THE DIP HYDRANT BARREL.

TYPICAL HYDRANT INSTALLATION			
REVISED: 2-25	ENGINEERING DEPARTMENT	PLATE NO.:	1004



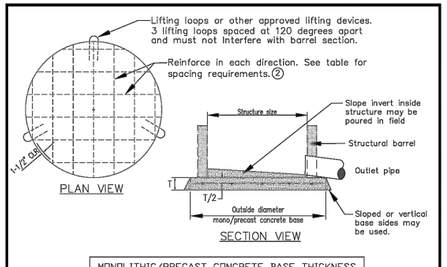
TYPICAL GATE VALVE AND BOX INSTALLATION			
REVISED: 2-24	ENGINEERING DEPARTMENT	PLATE NO.:	1006



NOTES:

1. MEGALUGS TO BE USED AT ALL MECHANICAL JOINTS.
2. PLACE CONCRETE BLOCKS UNDER ALL GATE VALVES AND HYDRANTS.
3. THRUST BLOCKING AT ALL TEES, BENDS, AND HYDRANTS.
4. ALL FITTINGS, NUTS, AND BOLTS SHALL BE COR-BLUE NUTS, BOLTS AND WASHERS OR STAINLESS STEEL.
5. BLOCKING SHALL BE AGAINST UNDISTURBED SOILS.

TYPICAL MEGALUG LOCATION			
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.:	1009



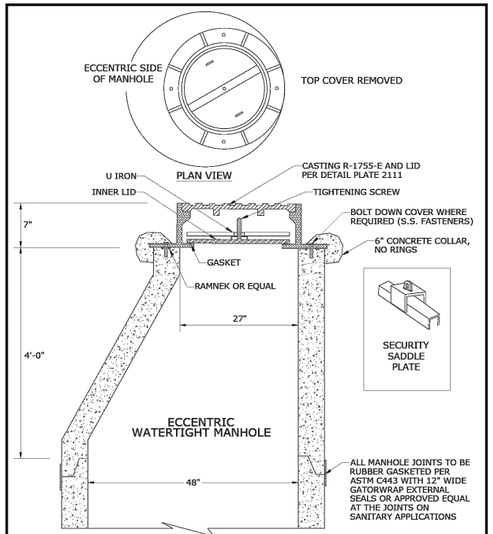
MONOLITHIC/PRECAST CONCRETE BASE THICKNESS

STRUCTURE SIZE (INCHES)	OUTSIDE DIAMETER (INCHES)	MINIMUM REINF. ② T THICKNESS (INCHES)	BAR #	SPACING (INCHES)	APPROX. WEIGHT (LBS)
30	44	6	4	12	790
48	64	6	4	12	1680
54	72	8	4	12	2830
60	78	8	4	12	3320
66	85	8	4	12	3940
72	92	8	4	12	4620
78	100	8	4	12	5460
84	106	8	4	8	6130
90	114	8	4	8	7090
96	120	8	4	8	7850
102	127	8	4	8	8800
108	132	9	4	8	10690 ①
120	146	12	4	8	17440
132	160	12	4	8	20940
144	174	12	4	6	24770

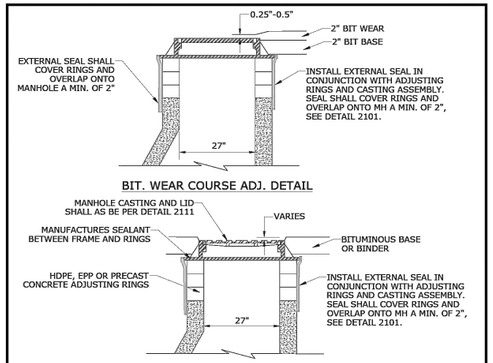
NOTE:

① Alternate T = 10" number 4 bars spaced at 10" on centers.
② Wire mesh of an equivalent bar size may be used upon engineers approval
3. Structures over 16' in height shall have base thickness certified by Engineer of record.

CITY OF CHANHASSEN	MONOLITHIC/PRECAST CONCRETE BASE THICKNESS		
REVISED: 3-23	ENGINEERING DEPARTMENT	PLATE NO.:	2100
FILE NAME: G:\ENG\SPECS\2100			



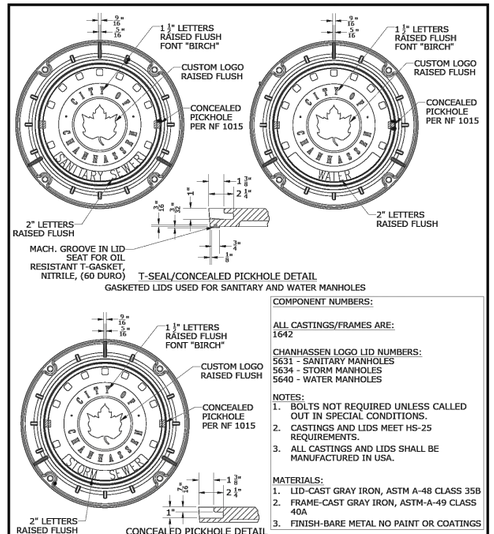
WATERTIGHT MANHOLE			
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.:	2105



NOTES:

1. MINIMUM OF 2-2" ADJUSTING RINGS, MAXIMUM OF 3 ADJUSTING RINGS AND A TOTAL MAXIMUM STACK HEIGHT OF 12" FOR NEW CONSTRUCTION.
2. PRECAST CONCRETE ADJUSTING RINGS SHALL BE BEDDED WITH 1/4" TO 1/2" MORTAR.
3. HDPE AND EPP ADJUSTING RINGS SHALL BE INSTALLED WITH MANUFACTURES SEALANT OR APPROVED EQUAL, & HDPE RINGS SHALL BE SOLID CONSTRUCTION.
4. ALL ADJUSTMENTS SHALL INCLUDE NEW RINGS FROM CASTING TO CONE.
5. WOOD SHIMS ARE NOT PERMITTED TO BE USED IN ADJUSTING RINGS.
6. WEAR COURSE CAN USE STEEL ADJUSTING RING INSERTS PER MANUFACTURES SPECS. WITH APPROVAL OF THE ENGINEER.
7. 2-PIECE COVER RISER RINGS ARE NOT ALLOWED.
8. TOTAL OFFSET FOR ALL RINGS SHALL NOT EXCEED 4" WITHOUT CITY ENGINEERS APPROVAL.

MANHOLE CASTING AND ADJUSTING DETAIL			
REVISED: 2-25	ENGINEERING DEPARTMENT	PLATE NO.:	2110



COMPONENT NUMBERS:

ALL CASTINGS/FRAMES ARE:
1642

CHANHASSEN LOGO LID NUMBERS:
5631 - SANITARY MANHOLES
5634 - STORM MANHOLES
5640 - WATER MANHOLES

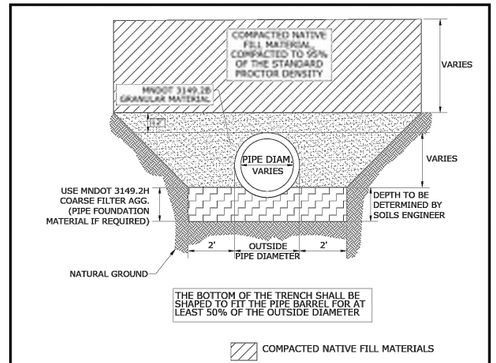
NOTES:

1. BOLTS NOT REQUIRED UNLESS CALLED OUT IN SPECIAL CONDITIONS.
2. CASTINGS AND LIDS MEET HS-25 REQUIREMENTS.
3. ALL CASTINGS AND LIDS SHALL BE MANUFACTURED IN USA.

MATERIALS:

1. LID-CAST GRAY IRON, ASTM A-48 CLASS 35B
2. FRAME-CAST GRAY IRON, ASTM-A-49 CLASS 40A
3. FINISH-BARE METAL NO PAINT OR COATINGS

MANHOLE CASTINGS AND LIDS DETAIL			
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.:	2111



NOTES:

1. WHEN EXISTING SOIL CONDITIONS ARE NOT ACCEPTABLE FOR BACKFILL AND/OR COMPACTION IN THE PIPE ZONE, PIPE BEDDING AND BACKFILL SHALL BE USED AS SHOWN ABOVE.
2. A SOILS ENGINEER WILL BE REQUIRED TO DETERMINE THE DEPTH OF THE PIPE FOUNDATION EMBEDMENT MATERIAL IF NEEDED. PIPE FOUNDATION MATERIAL SHALL BE ACCORDANCE WITH MNDOT 3149.2H COURSE FILTER AGGREGATE.
3. TRENCH SLOPES SHALL CONFORM TO CURRENT OSHA RULES AND REGULATIONS FOR EXCAVATIONS AND TRENCHES.

PIPE BEDDING IN POOR SOILS			
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.:	2201

No.	Date	Revisions	App.

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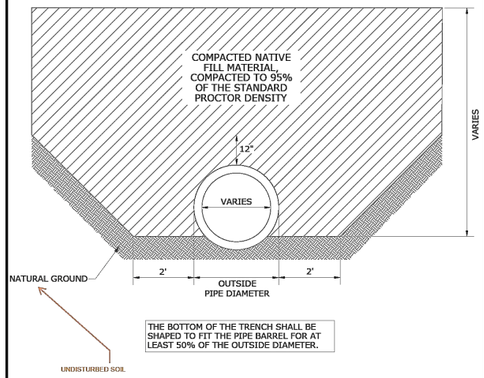
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

CITY STANDARD PLATES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 10 / 169

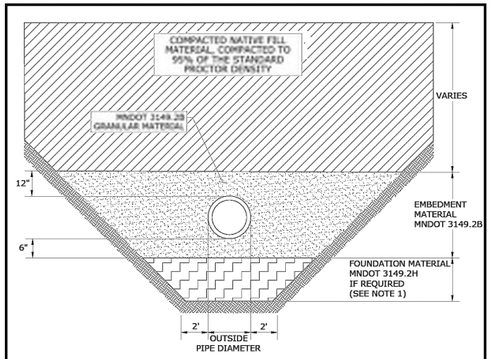
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NOTES:
1. WHEN EXISTING SOIL CONDITIONS ARE NOT ACCEPTABLE FOR BACKFILL AND/OR COMPACTION IN THE PIPE ZONE, PIPE BEDDING AND BACKFILL SHALL BE USED AS SHOWN ON DETAIL PLATE 2201.
2. TRENCH SLOPES SHALL CONFORM TO CURRENT OSHA RULES AND REGULATIONS FOR EXCAVATIONS AND TRENCHES.

PIPE BEDDING IN GOOD SOILS RCP & DIP

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 2202

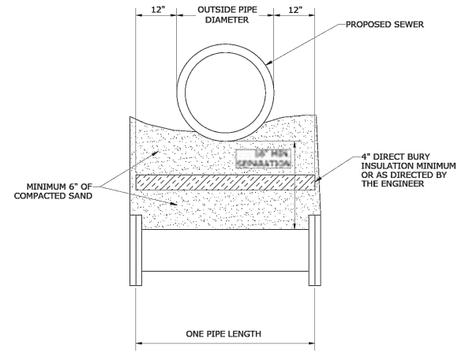


NOTES:
1. A SOILS ENGINEER WILL BE REQUIRED TO DETERMINE THE DEPTH OF THE PIPE FOUNDATION EMBEDMENT MATERIAL IF NEEDED. PIPE FOUNDATION MATERIAL SHALL BE IN ACCORDANCE WITH MNDOT 3149.2H COURSE FILTER AGGREGATE.
2. P.V.C. BEDDING SHALL BE MNDOT 3149.2B SELECT GRANULAR BORROW WITH 100% PASSING A 3/4" SIEVE, AND LESS THAN 10% PASSING A NO. 200 SIEVE.
3. TRENCH SLOPES SHALL CONFORM TO CURRENT OSHA RULES AND REGULATIONS FOR EXCAVATIONS AND TRENCHES.

PIPE BEDDING FOR P.V.C. PIPE

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 2203

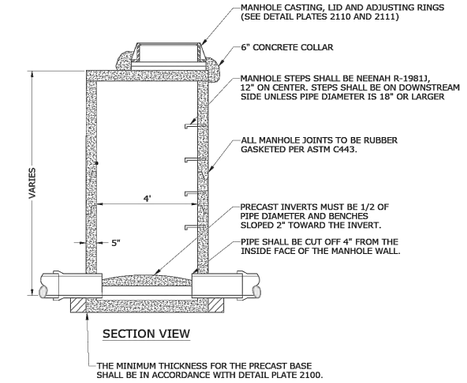
SHOWN AS TYPICAL



NOTES:
1. INSULATION DETAILS SITE SPECIFIC, SEE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION.
2. INSULATION AND COMPACTED SAND SHALL EXTEND 12" PAST OUTSIDE OF PIPE.
3. INSULATION SHALL OVERLAP AT JOINTS BY A MINIMUM OF 12".

INSULATED PIPE CROSSING

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 2204



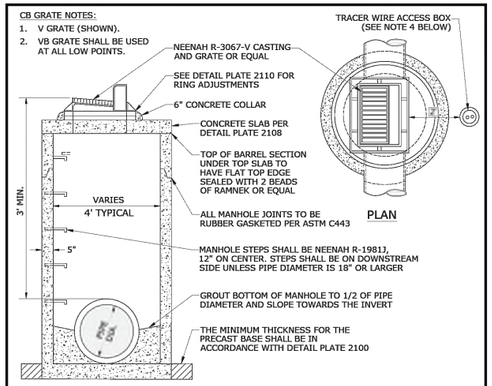
NOTES:
1. ALL DOG HOUSES SHALL BE GROUTED BOTH INSIDE AND OUTSIDE OF THE STRUCTURE.
2. WHEN THE MANHOLE OR CATCH BASIN STRUCTURE IS CONSTRUCTED OUTSIDE OF THE TRAVELED ROADWAY A WITNESS POST AND SIGN (MH) SHALL BE INSTALLED BEHIND THE MH.
3. IF A SUMP MH IS REQUIRED, A MINIMUM SUMP DEPTH OF 4' SHALL BE CONSTRUCTED BELOW THE LOWEST PIPE INVERT IN THE STRUCTURE.

EACH STRUCTURE SHALL BE CHECKED FOR BUOYANCY AND CERTIFIED BY THE ENGINEER OF RECORD THAT FLOTATION WILL NOT OCCUR.

STANDARD STORM MANHOLE

REVISED: 2-24	ENGINEERING DEPARTMENT	PLATE NO.: 3100

CB GRATE NOTES:
1. V GRATE (SHOWN).
2. VB GRATE SHALL BE USED AT ALL LOW POINTS.



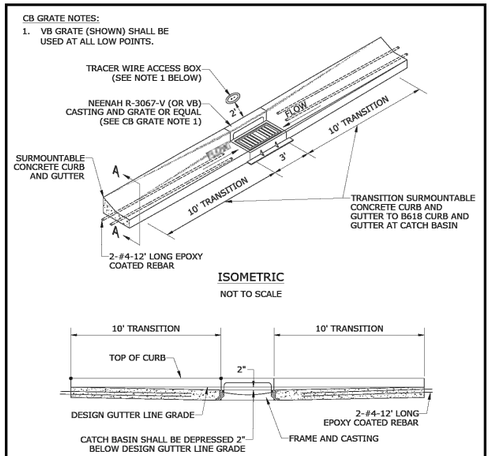
NOTES:
1. DOGHOUSES SHALL BE GROUTED BOTH INSIDE AND OUTSIDE THE STRUCTURE.
2. NO BLOCK STRUCTURES ARE ALLOWED.
3. IF A SUMP IS REQUIRED, A MINIMUM SUMP DEPTH OF 4' SHALL BE CONSTRUCTED BELOW THE LOWEST PIPE INVERT IN THE STRUCTURE.
4. ALL DRAINTILE INSTALLATIONS SHALL BE IN ACCORDANCE WITH DETAIL PLATES 5232-5234. ASSOCIATED TRACER WIRE ACCESS BOXES TO BE LOCATED 2' BEHIND CATCH BASIN CASTING WHERE APPLICABLE.

EACH STRUCTURE SHALL BE CHECKED FOR BUOYANCY AND CERTIFIED BY THE ENGINEER OF RECORD THAT FLOTATION WILL NOT OCCUR.

TYPICAL 4' DIAMETER CATCH BASIN MANHOLE

REVISED: 2-24	ENGINEERING DEPARTMENT	PLATE NO.: 3102

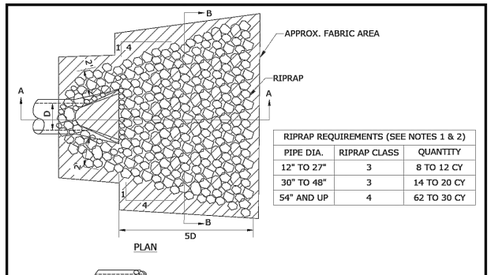
CB GRATE NOTES:
1. VB GRATE (SHOWN) SHALL BE USED AT ALL LOW POINTS.



NOTES:
1. ALL DRAINTILE INSTALLATIONS SHALL BE IN ACCORDANCE WITH DETAIL PLATES 5232-5234. ASSOCIATED TRACER WIRE ACCESS BOXES TO BE LOCATED 2' BEHIND CATCH BASIN CASTING WHERE APPLICABLE.

CURB CONSTRUCTION AT CATCH BASIN

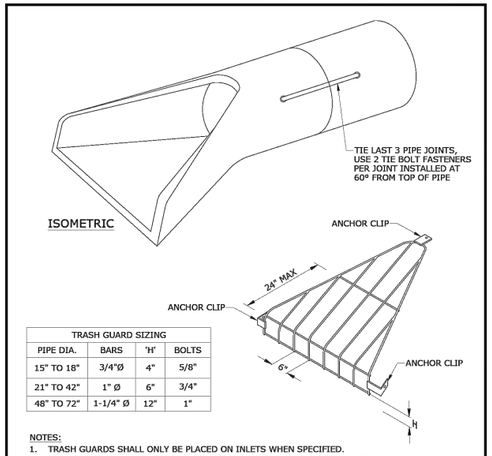
REVISED: 2-24	ENGINEERING DEPARTMENT	PLATE NO.: 3106



NOTES:
1. ONE CUBIC YARD IS APPROXIMATETLY 2,800 LBS.
2. FOR OUTLET VELOCITIES LESS THAN 10 FT/SEC. OUTLET VELOCITIES EXCEEDING 10 FT/SEC SHALL OBTAIN PRIOR APPROVAL BY THE ENGINEER.
3. GRANULAR FILTER SHALL BE 3" OF 1-1/2" CLEAR LIMESTONE UNDER RIPRAP ON 2 LAYERS OF MNDOT TYPE 5 GEOTEXTILE FABRIC.

RIPRAP DETAIL

REVISED: 12-25	ENGINEERING DEPARTMENT	PLATE NO.: 3107



TRASH GUARD SIZING			
PIPE DIA.	BARS	'H'	BOLTS
15" TO 18"	3/4"Ø	4"	5/8"
21" TO 42"	1" Ø	6"	3/4"
48" TO 72"	1-1/4" Ø	12"	1"

NOTES:
1. TRASH GUARDS SHALL ONLY BE PLACED ON INLETS WHEN SPECIFIED.
2. PROVIDE 3 ANCHOR CLIPS TO FASTEN TRASH GUARD TO FLARED END SECTION.
3. TRASH GUARD AND ANCHOR CLIPS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
4. ALL NEW RC APRONS CONNECTING TO NEW PIPE SHALL HAVE THE JOINTS TIED BACK FOR THE FIRST 3 JOINTS FROM THE APRON. WHEN CONNECTING NEW RC APRON TO EXISTING PIPE, TIE APRON TO FIRST ADJACENT PIPE.
5. ALL FES SHALL BE DELINEATED USING A GREEN 48" TALL POLYETHYLENE MARKER POST.
6. SEE DETAIL PLATE 3107 FOR RIPRAP PLACEMENT.

FLARED END SECTION AND TRASH GUARD

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 3108

No.	Date	Revisions	App.

DRAWING NAME	2026-MARKET-PLATES.dwg
DESIGNED BY:	MAK
DRAWN BY:	RCH
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PROJECT NO.	25-02

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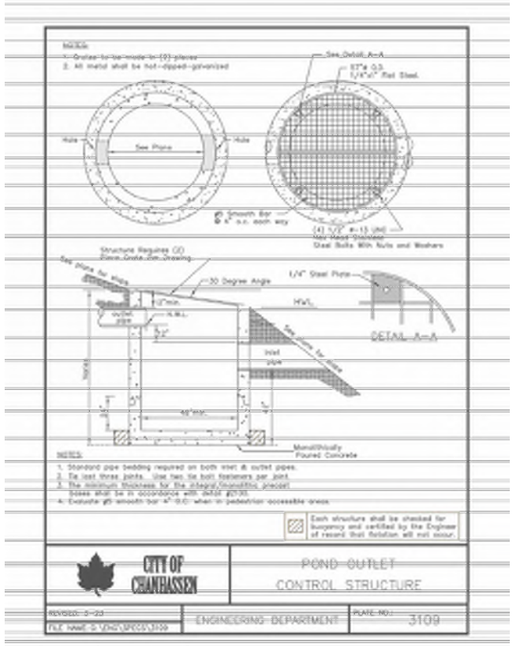
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

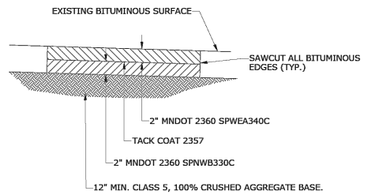
CITY STANDARD PLATES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 11

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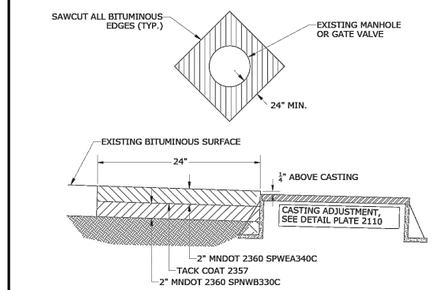




NOTES:
1. SAWCUT ALL EDGES, REMOVE BITUMINOUS PATCH AREA AND ENOUGH CLASS 5 MATERIAL TO ACCOMMODATE BITUMINOUS PATCH.
2. MECHANICAL COMPACTION OF GRAVEL BASE REQUIRED PRIOR TO PAVING.
3. APPLY TACK TO ALL EDGES. CONTRACTOR MAY USE WEAR COURSE MATERIAL IN LIEU OF BASE COURSE MATERIAL.
4. USE PLATE COMPACTOR TO CONSOLIDATE BASE COURSE PATCH.
5. ALLOW BASE COURSE TO FULLY COOL BEFORE PLACING WEAR COURSE.
6. RE-APPLY TACK TO ALL EDGES (IF NEEDED) AND PATCHED BASE AREA.
7. ROLL PATCH FROM EDGES TO CENTER. REMOVE OR ADD MATERIAL DURING ROLLING SO PATCH IS TRUE AND LEVEL WITH SURROUNDING SURFACES. CONTRACTOR TO STRINGLINE ALL PATCHES PRIOR TO APPROVAL.
8. MNDOT 2360-ORDINARY COMPACTION METHOD REQUIRED.
9. PATCHED AREAS SHALL MATCH ROADS EXISTING THICKNESS FOR SECTION.

TYPICAL STREET PATCHING BITUMINOUS

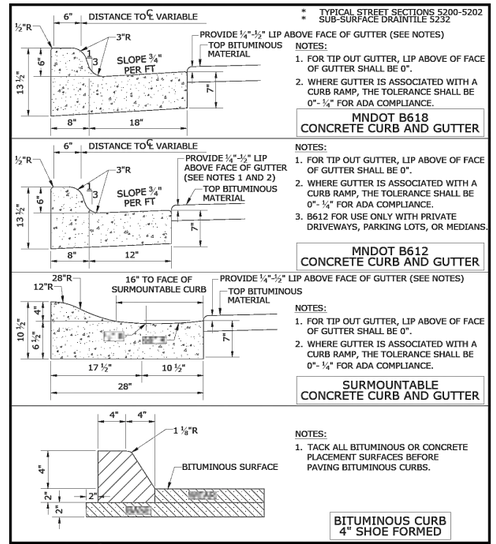
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5202A



NOTES:
1. SAWCUT AND TACK ALL EDGES, REMOVE BITUMINOUS PATCH AREA AND ENOUGH CLASS 5 MATERIAL TO ACCOMMODATE BITUMINOUS PATCH.
2. MECHANICAL COMPACTION OF GRAVEL BASE REQUIRED PRIOR TO PAVING.
3. CONTRACTOR MAY USE WEAR COURSE MATERIAL IN LIEU OF BASE COURSE
4. MATERIAL. USE VIBRATORY SLED TAMPER ON BASE COURSE PATCH.
5. ALLOW BASE COURSE TO FULLY COOL BEFORE PLACING WEAR COURSE.
6. ONLY MNDOT APPROVED RELEASE AGENTS MAY BE USED OVER CASTINGS. RE-APPLY TACK TO ALL EDGES (IF NEEDED) AND PATCHED BASE AREA.
7. ROLL PATCH FROM EDGES TO CENTER. REMOVE OR ADD MATERIAL DURING
8. ROLLING SO PATCH IS TRUE AND LEVEL WITH SURROUNDING SURFACES. CONTRACTOR TO STRINGLINE ALL PATCHES PRIOR TO APPROVAL.
9. MNDOT 2360-ORDINARY COMPACTION METHOD REQUIRED.
10. PATCHED AREAS SHALL MATCH ROADS EXISTING THICKNESS FOR SECTION.
11. IF CASTING NEEDS TO BE ADJUSTED, SEE DETAIL PLATE 2110.

TYPICAL STREET PATCHING AT MANHOLES OR GATE VALVES (BITUMINOUS)

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5202B



* TYPICAL STREET SECTIONS 5200-5202
* SUB-SURFACE DRAINTILE 5232

NOTES:
1. FOR TIP OUT GUTTER, LIP ABOVE OF FACE OF GUTTER SHALL BE 0".
2. WHERE GUTTER IS ASSOCIATED WITH A CURB RAMP, THE TOLERANCE SHALL BE 0"- ¼" FOR ADA COMPLIANCE.

MNDOT B618
CONCRETE CURB AND GUTTER

NOTES:
1. FOR TIP OUT GUTTER, LIP ABOVE OF FACE OF GUTTER SHALL BE 0".
2. WHERE GUTTER IS ASSOCIATED WITH A CURB RAMP, THE TOLERANCE SHALL BE 0"- ¼" FOR ADA COMPLIANCE.
3. B612 FOR USE ONLY WITH PRIVATE DRIVEWAYS, PARKING LOTS, OR MEDIANS.

MNDOT B612
CONCRETE CURB AND GUTTER

NOTES:
1. FOR TIP OUT GUTTER, LIP ABOVE OF FACE OF GUTTER SHALL BE 0".
2. WHERE GUTTER IS ASSOCIATED WITH A CURB RAMP, THE TOLERANCE SHALL BE 0"- ¼" FOR ADA COMPLIANCE.

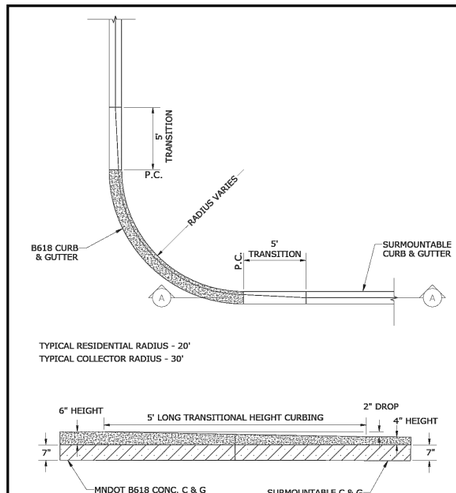
SURMOUNTABLE
CONCRETE CURB AND GUTTER

NOTES:
1. TACK ALL BITUMINOUS OR CONCRETE PLACEMENT SURFACES BEFORE PAVING BITUMINOUS CURBS.

BITUMINOUS CURB
4" SHOE FORMED

TYPICAL CURB AND GUTTER

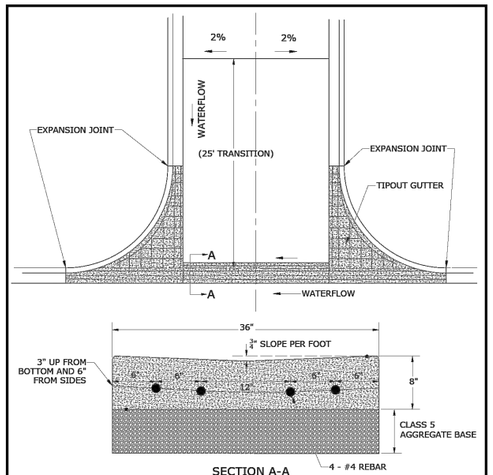
REVISED: 2-25	ENGINEERING DEPARTMENT	PLATE NO.: 5203



SECTION A-A

TYPICAL CURB RADIUS

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5204

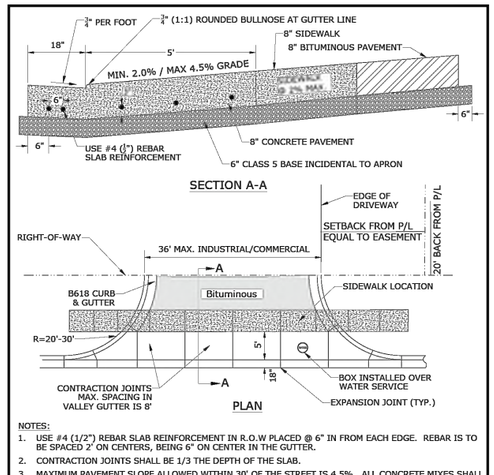


SECTION A-A

NOTES:
1. 1/2" PREFORMED JOINT FILLER MATERIAL - AASHTO M213.
2. CONTRACTION JOINTS 8' O.C. IN CROSS GUTTER.
3. MAX. SPACING FOR #4 REBAR IS 2' ON CENTERS FOR WINGS.

STREET INTERSECTION
CONCRETE VALLEY GUTTER

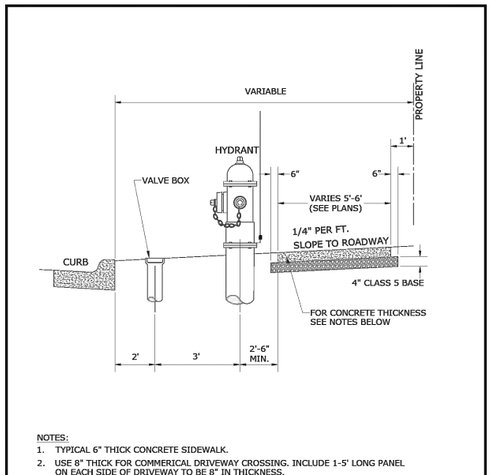
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5206



NOTES:
1. USE #4 (1/2") REBAR SLAB REINFORCEMENT IN R.O.W PLACED @ 6" IN FROM EACH EDGE. REBAR IS TO BE SPACED 2' ON CENTERS, BEING 6" ON CENTER IN THE GUTTER.
2. CONTRACTION JOINTS SHALL BE 1/3 THE DEPTH OF THE SLAB.
3. MAXIMUM PAVEMENT SLOPE ALLOWED WITHIN 30' OF THE STREET IS 4.5%. ALL CONCRETE MIXES SHALL BE AS SHOWN IN CHANHASSEN STREET CONSTRUCTION 4. SPECIFICATION UNDER SECTION 4.05.
5. IF THE WATER SHUTOFF IS LOCATED IN THE DRIVEWAY PAVEMENT A COVER AS MANUFACTURED BY MCDONALD 74M1A SERIES WITH AN 8" FRAME & COVER OR EQUAL SHALL BE INSTALLED.
6. MNDOT B618 OR B612 CURBS MUST BE POURED MONOLITHICALLY WITH DRIVEWAYS.
7. SIDEWALKS SHALL TAKE GRADE PRECEDENCE THROUGH DRIVEWAYS.

COMMERCIAL/INDUSTRIAL
CONCRETE DRIVEWAY APRON

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5207



NOTES:
1. TYPICAL 6" THICK CONCRETE SIDEWALK.
2. USE 8" THICK FOR COMMERICAL DRIVEWAY CROSSING. INCLUDE 1-5' LONG PANEL ON EACH SIDE OF DRIVEWAY TO BE 8" IN THICKNESS.
3. JOINT SPACING AT 5' INTERVALS. EXPANSION JOINT SPACING AT 100' INTERVALS AND WHEN ABUTTING EXISTING CONCRETE OR STRUCTURE.
4. AGGREGATE USED IN THE CONCRETE MIX SHALL BE GRANITE.
5. SIDEWALKS SHALL TAKE GRADE PRECEDENCE THROUGH DRIVEWAYS.

CONCRETE SIDEWALK

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5214

No.	Date	Revisions	App.

DRAWING NAME	2026-MARKET-PLATES.dwg
DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

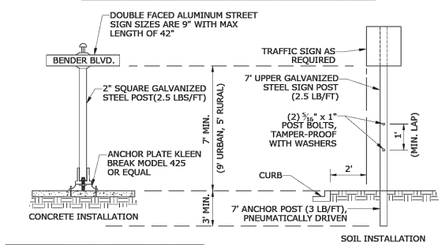
CITY STANDARD PLATES

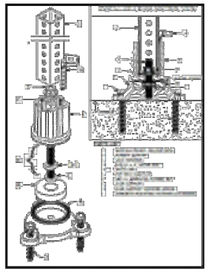
CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 12

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TYPICAL STREET & TRAFFIC SIGN INSTALLATIONS





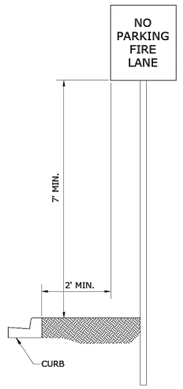
NOTES:

1. FOR BOULEVARD LOCATION OF STREET SIGNS AND FOR TRAFFIC SIGNS, CONTACT CHANHASSEN STREET MAINTENANCE FOREMAN 952-227-1300.
2. FOR MATERIAL SPECIFICATIONS SEE SECTION 4.11 OF STANDARD STREET SPECS.
3. PUBLIC STREET SIGNS SHALL BE WHITE LETTERING ON DARK BROWN BACKGROUND DOUBLE FACED DG3 HIGH INTENSITY ON 0.08 ALUMINUM.
4. FOR PRIVATE STREETS, SIGNS SHALL BE THE SAME AS ABOVE, EXCEPT LETTERING TO BE WHITE ON BLUE BACKGROUND.

STREET AND TRAFFIC SIGN INSTALLATION

REVISED: 2-25	ENGINEERING DEPARTMENT	PLATE NO.: 5217

CHANHASSEN FIRE DEPARTMENT POLICY REQUIREMENTS FOR FIRE LANE SIGNAGE



NOTES:

1. SIGNS TO BE A MINIMUM OF 12" X 18".
2. RED ON WHITE IS PREFFERED.
3. 3M OR EQUAL ENGINEER'S GRADE REFLECTIVE SHEETING ON ALUMINUM IS PREFFERED.
4. WORDING SHALL BE:

   NO
   PARKING
   FIRE
   LANE

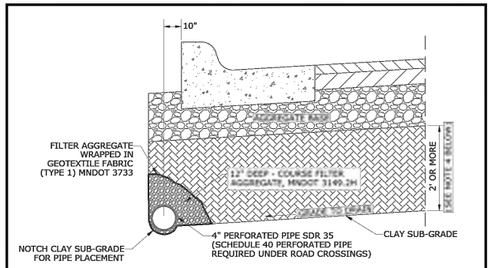
5. SIGNS SHALL BE POSTED AT EACH END OF THE FIRE LANE AND AT LEAST AT EVERY 75' INTERVALS ALONG THE FIRE LANE.
6. ALL SIGNS SHALL BE DOUBLE SIDED FACING THE DIRECTION OF TRAVEL.
7. POST SHALL BE SET BACK A MINIMUM OF 24" BUT NOT MORE THAN 36" FROM THE BACK OF CURB.
8. A FIRE LANE SHALL BE REQUIRED IN FRONT OF FIRE DEPARTMENT CONNECTIONS EXTENDING 5' ON EACH SIDE AND ALONG ALL AREAS DESIGNATED BY THE FIRE CHIEF.

CHANHASSEN FIRE DEPARTMENT
FIRE PREVENTION POLICY 06-1991
DATED JANUARY 15, 1991

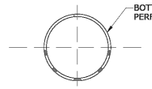
ANY DEVIATION FROM THE ABOVE PROCEDURES SHALL BE SUBMITTED IN WRITING, WITH A SITE PLAN, FOR APPROVAL BY THE FIRE CHIEF. IT IS THE INTENTION OF THE FIRE DEPARTMENT TO ENSURE CONTINUITY THROUGHOUT THE CITY BY PROVIDING THESE PROCEDURES FOR MARKING OF FIRE LANES.

FIRE LANE SIGNAGE

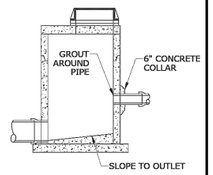
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5218



TRENCH DETAIL



PIPE DETAIL



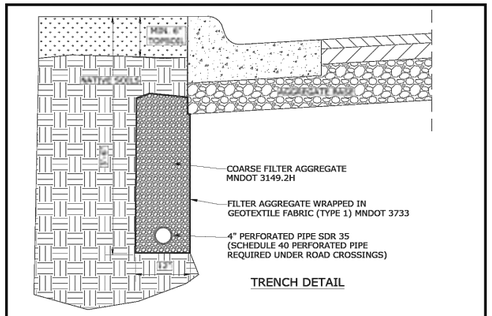
MANHOLE CONNECTION DETAIL

NOTES:

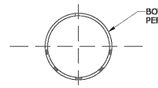
1. CLEANOUTS REQUIRED AT 200' MAXIMUM INTERVALS AND ALL ENDING POINTS IN ACCORDANCE WITH DETAIL PLATE 5234.
2. SWING TIES TO BE SHOWN ON AS-BUILTS FOR ALL CLEANOUTS AND ENDING POINTS TO ALL DRAINTILES.
3. OPENINGS IN STRUCTURE FOR DRAINTILE TO BE FABRICATED OR CORE DRILLED.
4. THIS DETAIL TO BE USED WHEN 2' OR MORE OF EXISTING SOIL SUB CUT IS NECESSARY.
5. ALL DRAINTILE SHALL HAVE TRACER WIRES AND GROUND ROD.

4" SUB-SURFACE DRAINTILE

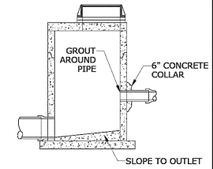
REVISED: 2-24	ENGINEERING DEPARTMENT	PLATE NO.: 5232



TRENCH DETAIL



PIPE DETAIL



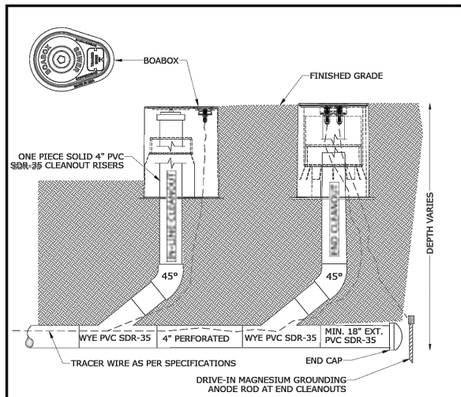
MANHOLE CONNECTION DETAIL

NOTES:

1. CLEANOUTS REQUIRED AT 200' MAXIMUM INTERVALS AND ALL ENDING POINTS IN ACCORDANCE WITH DETAIL PLATE 5234.
2. SWING TIES TO BE SHOWN ON AS-BUILTS FOR ALL CLEANOUTS AND ENDING POINTS TO ALL DRAINTILES.
3. OPENINGS IN STRUCTURE FOR DRAINTILE TO BE PREFABRICATED OR CORE DRILLED.
4. ALL DRAINTILE SHALL HAVE TRACER WIRES AND GROUND ROD.

ALTERNATE 4" SUB-SURFACE DRAINTILE

REVISED: 2-24	ENGINEERING DEPARTMENT	PLATE NO.: 5233

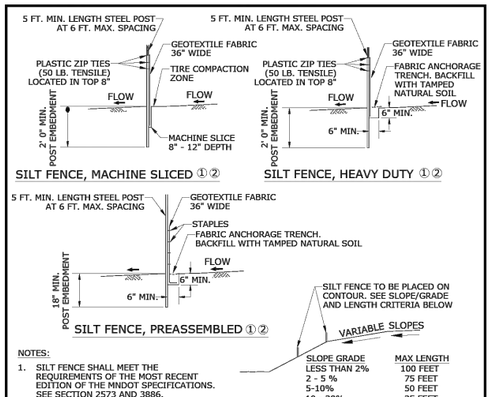


NOTES:

1. SOLVENT WELD ALL JOINTS ON CLEAN OUT (NON-GASKETED).
2. CLEAN OUTS SHALL BE SPACED AT 200' INTERVALS (MAXIMUM).
3. BENDS AND RISER TO BE SAME SIZE AS DRAINTILE MAIN.
4. ALL DRAINTILES MUST HAVE TRACER WIRE AND GROUNDING ROD BROUGHT UP TO THE SURFACE INTO AN INTEGRATED CLEANOUT AND TRACER BOX AT EACH STRUCTURE OR AT CLEAN OUTS AS SHOWN ABOVE.
5. ONCE COMPLETED,THE CONTRACTOR WILL BE REQUIRED TO LOCATE THE RUNS VIA TRACER WIRE TESTING REQUIREMENTS.
6. INTEGRATED CLEANOUT & TRACER BOX SHALL BE THE BOABOX SEWER ACCESS POINT OR APPROVED EQUAL.
7. TRACER BOX TO BE LOCATED 2' BOC WHERE APPLICABLE.

SUB-SURFACE PVC DRAINTILE CLEANOUTS FOR INLINE AND END OF RUN CLEANOUTS

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5234



SILT FENCE, MACHINE SLICED ①②

SILT FENCE, HEAVY DUTY ①②

SILT FENCE, PREASSEMBLED ①②

NOTES:

1. SILT FENCE SHALL MEET THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE MNDOT SPECIFICATIONS. SEE SECTION 2573 AND 3886.
2. WOOD SILT FENCE POSTS MAY ONLY BE USED IF PRIOR APPROVAL IS OBTAINED FROM THE CITY.

KEY NOTES:

① TO PROTECT AREA FROM SHEET FLOW
② MAXIMUM CONTRIBUTING AREA: 1 ACRE

SLOPE GRADE	MAX LENGTH
LESS THAN 2%	100 FEET
2 - 5 %	75 FEET
5-10%	50 FEET
10 - 20%	25 FEET
GREATER THAN 20%	15 FEET

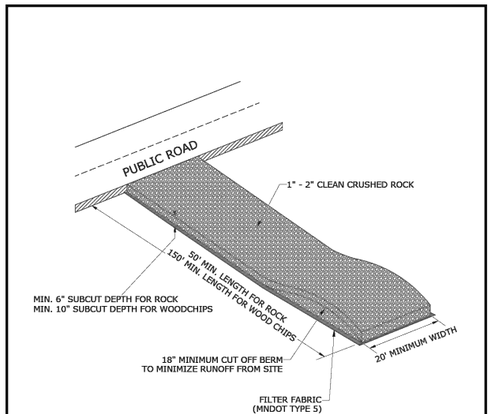
LOCATION OF SILT FENCE FOR SEDIMENT CONTROL



LOCATION OF SILT FENCE FOR PERIMETER CONTROL

SILT FENCE

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5300

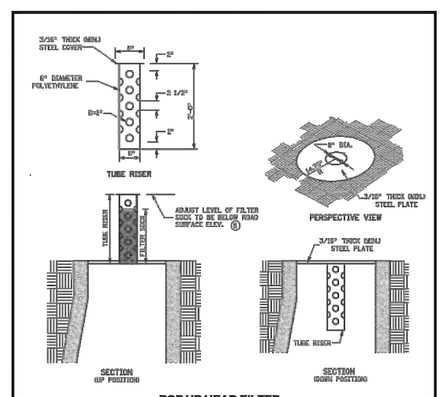


NOTES:

1. FILTER FABRIC SHALL BE PLACED UNDER ROCK TO STOP MUD MIGRATION THROUGH ROCK.

ROCK CONSTRUCTION ENTRANCE

REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5301



GENERAL NOTES:

1. SEE MNDOT SPECIFICATIONS 2573.
2. POP-UP HEAD FILTER TO BE USED IN CONSTRUCTION WHERE STEEL PLATED STRUCTURES REQUIRE DRAINAGE.
3. FILTER SOCK SHALL BE INSPECTED DURING EROSION CONTROL INSPECTIONS. ANY DEFECTIVE OR DAMAGED MATERIALS MUST BE REPLACED WITHIN 24 HOURS.
4. POP-UP HEAD FILTER SOCK TO BE INSTALLED WITHIN 24 HOURS OF STRUCTURE PLACEMENT.
5. DEVICES SHALL BE INSTALLED & MAINTAINED TO PREVENT FLOODING OF ROADWAYS, DRIVEWAYS & PRIVATE PROPERTY.

CITY OF CHANHASSEN

TEMPORARY SEDIMENT CONTROL POP-UP FILTER HEAD

REVISED: 3-22	ENGINEERING DEPARTMENT	PLATE NO.: 5302
FILE NAME: G:\ENG\SPECS\5302		

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DATE:	2/20/2026
PROJECT NO.	25-02

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11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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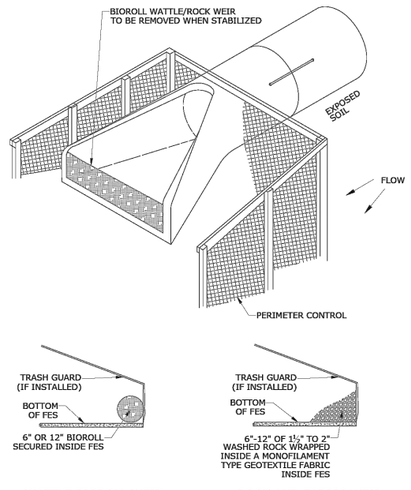
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

CITY STANDARD PLATES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 13

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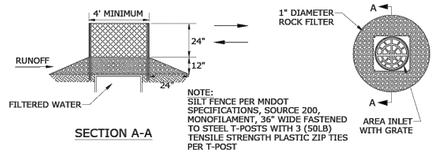


WATTLE BIOROLL WEIR

ROCK AND FABRIC WEIR

FLARED END SEDIMENT TRAP ROCK WEIR/WATTLE ROLL

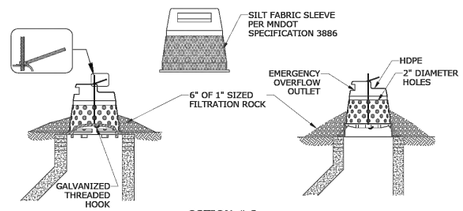
REVISED: 12-24 | ENGINEERING DEPARTMENT | PLATE NO.: 5302F



SECTION A-A

NOTE:
SILT FENCE PER MNDOT SPECIFICATIONS, SOURCE 200, MONOFILAMENT, 36" WIDE FASTENED TO STEEL T-POSTS WITH 3 (SOLID) TENSILE STRENGTH PLASTIC ZIP TIES PER T-POST

OPTION # 1



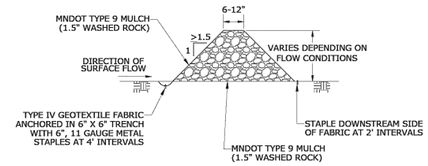
OPTION # 2

NOTES:
1. SEE MNDOT SPECIFICATIONS 2573, 3137,& 3886.
2. DEVICES SHALL BE INSTALLED & MAINTAINED TO PREVENT FLOODING OF ROADWAYS, DRIVEWAYS & PRIVATE PROPERTY.
3. FILTER BARRIERS TO BE INSTALLED WITHIN 24 HOURS OF STRUCTURE PLACEMENT.
4. FILTER BARRIERS SHALL BE INSPECTED DURING EROSION CONTROL INSPECTIONS. ANY DEFECTIVE OR DAMAGED MATERIALS MUST BE REPLACED WITHIN 24 HOURS.

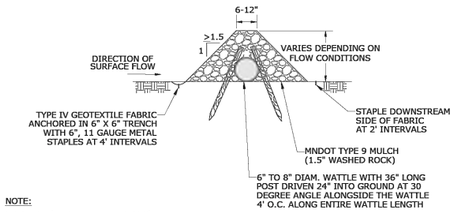
OFFROAD CATCH BASIN FILTER BARRIER OPTIONS 1 & 2

REVISED: 12-24 | ENGINEERING DEPARTMENT | PLATE NO.: 5302G

I. ROCK WEEPER



II. BIO WEEPER

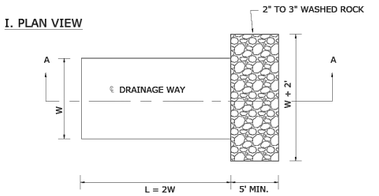


NOTE:
SPACING=(HEIGHT IN FEET X 100)
SLOPE GRADIENT

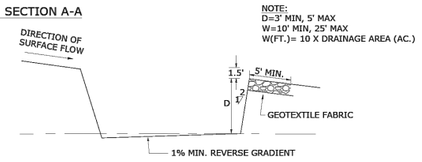
WEEPER DITCH CHECK / DITCH CHECK WITH WATTLE

REVISED: 12-24 | ENGINEERING DEPARTMENT | PLATE NO.: 5302H

I. PLAN VIEW

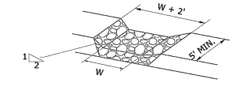


II. SECTION A-A



NOTE:
D=3' MIN, 5' MAX
W=10' MIN, 25' MAX
W(FT.)= 10 X DRAINAGE AREA (AC.)

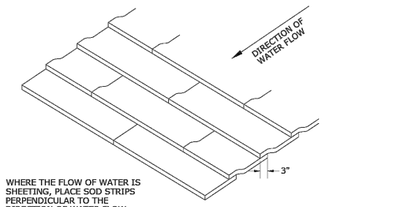
III. TRAP OUTLET



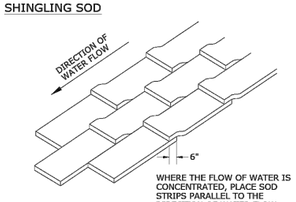
NOTES:
1. TRAP USED FOR 2.5 ACRES DRAINAGE AREA OR LESS.
2. DESIGN VOLUME IS A MINIMUM OF 1800 CUBIC FEET PER ACRE OF CONTRIBUTING DRAINAGE AREA.

TEMPORARY SEDIMENT TRAP 2.5 ACRES OR LESS

REVISED: 12-24 | ENGINEERING DEPARTMENT | PLATE NO.: 5302I



SHINGLING SOD

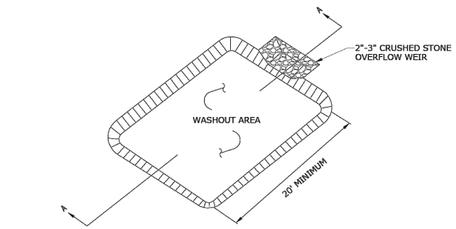


OVERLAPPING SOD

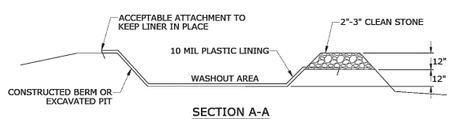
NOTES:
1. ALTHOUGH PEGGING ON SOD IS NOT SPECIFICALLY REQUIRED IT IS UNDERSTOOD THAT THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SUCCESSFUL ESTABLISHMENT OF THE SOD INCLUDING REPAIR OR REPLACEMENT OF SOD WHICH BECOMES DISPLACED OR DAMAGED DUE TO LACK OF PROTECTION OR PROPER CARE.

SOD PLACEMENT

REVISED: 12-24 | ENGINEERING DEPARTMENT | PLATE NO.: 5303



PLAN

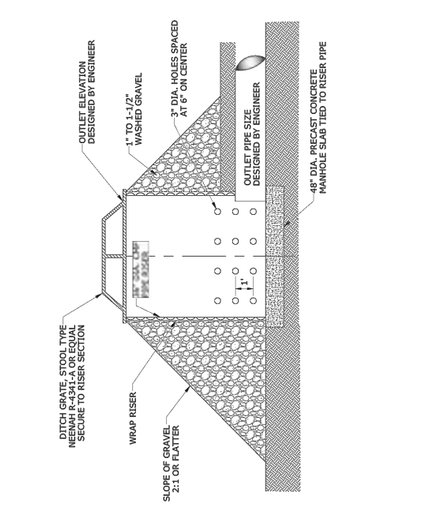


SECTION A-A

NOTES:
1. LOCATION OF THE WASHOUT AREA SHALL BE AT THE DISCRETION OF THE CONTRACTOR BUT IT MUST BE SHOWN ON THE PLANS AND MUST BE IDENTIFIED ON-SITE USING SIGNAGE. THE WASHOUT AREA SHALL BE AT LEAST THE MINIMUM DISTANCE FROM THE RIGHT OF WAY AS REQUIRED BY LOCAL JURISDICTION. THIS WASHOUT AREA SHALL BE LOCATED IN SUCH A MANNER SO THAT CONCRETE TRUCKS MAY PASS THROUGH THE WASHOUT AREA PRIOR TO THE STABILIZED ROCK CONSTRUCTION ENTRANCE.
2. HARDENED MATERIAL SHALL BE BROKEN UP AND CLEANED OUT AS NEEDED TO MAINTAIN A FUNCTIONING WASHOUT AREA VOLUME OR AS DIRECTED BY THE ENGINEER
3. THE WASHOUT AREA MUST BE GREATER THAN 50 FEET FROM ANY TREES.
4. THE WASHOUT AREA MUST BE SELF CONTAINED AND WATER TIGHT.

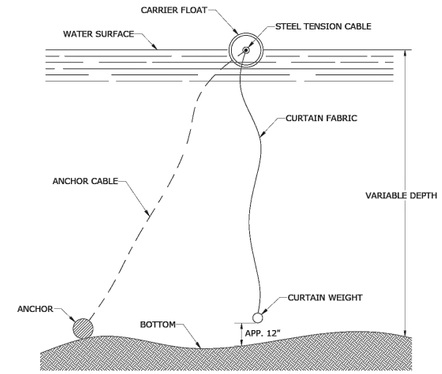
CONCRETE WASHOUT AREA

REVISED: 12-24 | ENGINEERING DEPARTMENT | PLATE NO.: 5304



TEMPORARY OUTLET (ROCK WEEPER)

REVISED: 12-24 | ENGINEERING DEPARTMENT | PLATE NO.: 5305



NOTES:
1. CONTACT MANUFACTURER OR DISTRIBUTOR FOR EXACT INSTALLATION TECHNIQUE AND DEPTH REQUIREMENTS.
2. STREAMS MAY REQUIRE ADDITIONAL OR ALTERNATE BMP. CHECK WITH MANUFACTURER FOR STREAM USE LIMITATIONS.
3. REMOVE SILT DEPOSITS FROM LAND SIDE OF CURTAIN. REMOVE CURTAIN AND ALL SOILS/ DEPOSITS UPON COMPLETION OF MAINTENANCE ACTIVITIES.

FLOATATION SILT CURTAIN

REVISED: 12-24 | ENGINEERING DEPARTMENT | PLATE NO.: 5306

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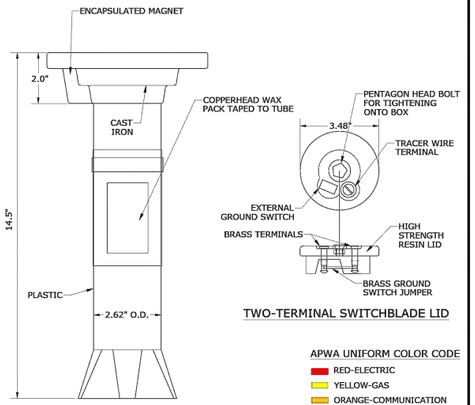
CITY OF CHANHASSEN
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2026 IMPROVEMENTS

CITY STANDARD PLATES

CITY PROJECT 25-02
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SHEET NO. 14

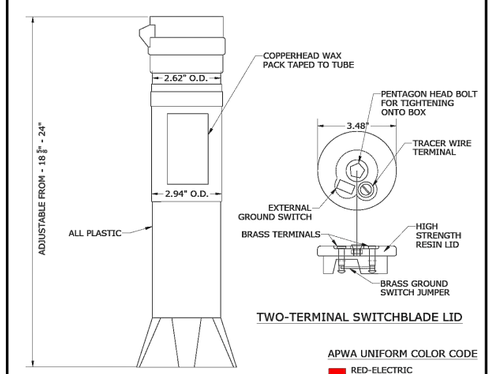
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NOTES:

1. INSTALLATION SHALL FOLLOW MANUFACTURES INSTRUCTIONS. CAPS SHALL BE COLOR CODED TO BE SPECIFIC TO UTILITY BEING TRACED.

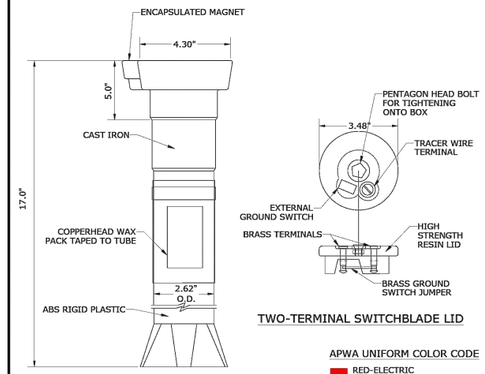
TYPICAL TWO TERMINAL MAGNETIZED TRACER BOX CONCRETE/DRIVEWAY BOX CD14*2T-SW		
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5500



NOTES:

1. INSTALLATION SHALL FOLLOW MANUFACTURES INSTRUCTIONS. CAPS SHALL BE COLOR CODED TO BE SPECIFIC TO UTILITY BEING TRACED.

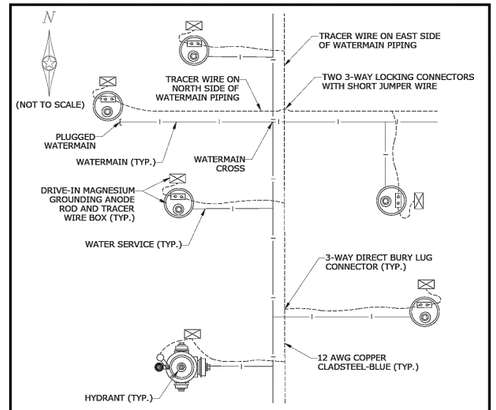
TYPICAL TWO TERMINAL MAGNETIZED TRACER BOX LITE DUTY BOX LD14 * 2T-ADJ-SW		
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5501



NOTES:

1. INSTALLATION SHALL FOLLOW MANUFACTURES INSTRUCTIONS. CAPS SHALL BE COLOR CODED TO BE SPECIFIC TO UTILITY BEING TRACED

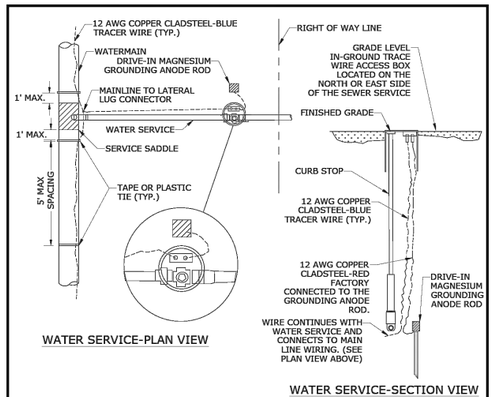
TYPICAL MAGNETIZED TRACER BOX ROADWAY BOX RB14*2TP-SW		
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5502



NOTES:

1. WIRES SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRINGLINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.
2. THE TRACER WIRE CONNECTIONS SHALL BE MADE WITH THE GAUGE APPROPRIATE COPPERHEAD SNAKEBITE LOCKING CONNECTORS OR APPROVED EQUAL.
3. WATER SERVICES INSTALLED PER DETAIL PLATE 1005.
4. WATER SERVICE TRACER WIRE ACCESS BOX INSTALLED PER DETAIL PLATE 5504.
5. HYDRANT TRACE WIRE INSTALLED PER DETAIL PLATE 5505.
6. **ALL TRACER WIRE SHALL PASS A LOCATE TEST, PREFORMED BY THE CITY UTILITY DEPARTMENT PRIOR TO PAVING OPERATIONS**

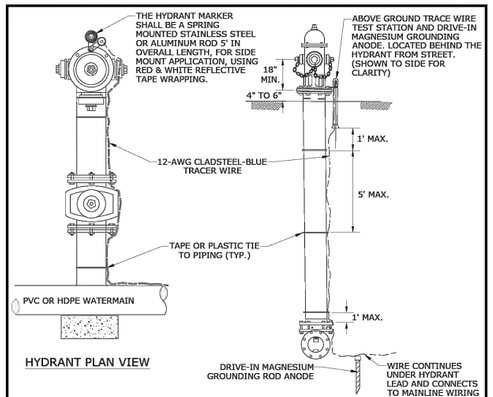
WATERMAIN SYSTEM TRACER WIRE DETAIL		
REVISED: 2-24	ENGINEERING DEPARTMENT	PLATE NO.: 5503



NOTES:

1. WIRING SHOWN AWAY FROM THE PIPING FOR CLARITY. WIRES SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE SERVICE PIPE. THE WIRES SHALL BE FASTENED TO THE PIPING WITH PLASTIC TIES OR WATER PROOF TAPE AT 5.0' INTERVALS EXCEPT WHEN NEAR FITTINGS THEN THE MAXIMUM SPACING IS 1.0'.
2. LEAVE 2' COIL OF EXTRA RED AND BLUE WIRING IN ACCESS BOX. RED WIRE IS FROM THE GROUNDING ANODE AND BLUE WIRE IS THE TRACE WIRE FOR THE SERVICE PIPE THAT CONNECTS TO THE MAIN LINE WIRING.
3. DO NOT ATTACH WIRES TO CURBSTOP TO ALLOW FOR ADJUSTMENTS TO BE MADE WITHOUT DAMAGING WIRES.
4. THE CONNECTIONS MUST BE MADE WITH THE GAUGE APPROPRIATE COPPERHEAD SNAKEBITE LOCKING CONNECTORS OR APPROVED EQUAL.
5. INTEGRATED BOX FOR CURB BOX AND TRACE WIRE CONNECTIONS.

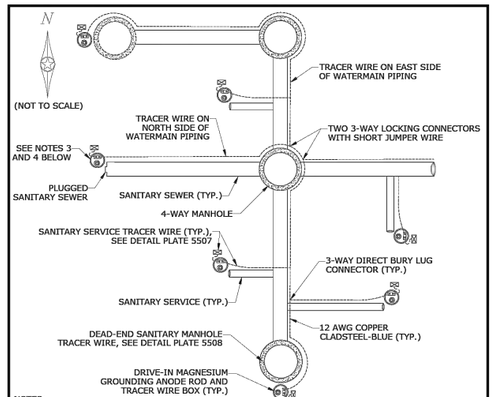
WATER SERVICE TRACER WIRE DETAIL		
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5504



NOTES:

1. TRACER WIRE SHALL BE INSTALLED ON THE NORTH OR EAST SIDE OF HYDRANT LEAD THEN INSIDE OR COBRA DUAL TERMINAL TRACER ACCESS BOX. LOCATED BEHIND THE HYDRANTS STEAMER NOZZLE.
2. 12 AWG COPPER CLAD STEEL-RED FACTORY CONNECTED TO ANODE GROUND ROD.
3. ALL OTHER TRACER WIRE TO BE 12-AWG CLAD-STEEL-BLUE TRACER WIRE.
4. TRACER WIRES TO BE TIED TO PIPING WITH PLASTIC ZIP TIES OR TAPE SUITABLE FOR UNDERGROUND USE AT 5' MAXIMUM INTERVALS UNLESS NEAR FITTINGS THEN SPACING IS 1' MAXIMUM.
5. THE CONNECTIONS MUST BE MADE WITH THE APPROPRIATE COPPERHEAD SNAKEBITE LOCKING CONNECTORS OR APPROVED EQUAL.

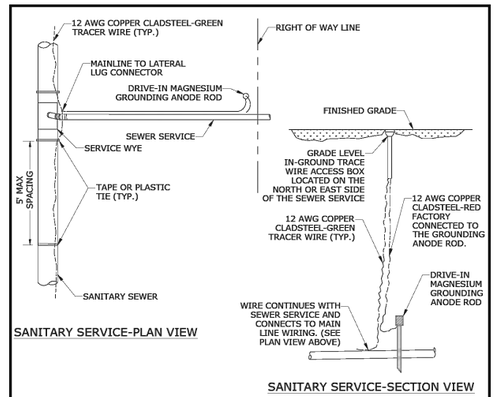
HYDRANT TRACER WIRE DETAIL		
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5505



NOTES:

1. WIRES SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRINGLINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.
2. THE TRACER WIRE CONNECTIONS SHALL BE MADE WITH THE GAUGE APPROPRIATE COPPERHEAD SNAKEBITE LOCKING CONNECTORS OR APPROVED EQUAL.
3. IF TRACER WIRE BOXES ARE LOCATED IN THE STREET, IT REQUIRES A GATE VALVE BOX WITH ONE EXTENSION, INCLUDING THE BONNET, AND FILLED WITH SAND TO BE INSTALLED TO PROTECT THE TRACE WIRE ACCESS BOX.
4. IF TRACER WIRE BOXES ARE LOCATED IN GREENSPACE, IT REQUIRES A MAMBA MARKER POST OR APPROVED EQUAL.
5. DEAD-END MANHOLES INSTALLED PER DETAIL PLATE 5508.
6. **ALL TRACER WIRE SHALL PASS A LOCATE TEST, PREFORMED BY THE CITY UTILITY DEPARTMENT PRIOR TO PAVING OPERATIONS**

SANITARY SEWER SYSTEM TRACER WIRE DETAIL		
REVISED: 2-24	ENGINEERING DEPARTMENT	PLATE NO.: 5506



NOTES:

1. WIRING SHOWN AWAY FROM THE PIPING FOR CLARITY. WIRES SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE SERVICE PIPE. THE WIRES SHALL BE FASTENED TO THE PIPING WITH PLASTIC TIES OR WATER PROOF TAPE AT 5.0' INTERVALS EXCEPT WHEN NEAR FITTINGS THEN THE MAXIMUM SPACING IS 1.0'.
2. LEAVE 2' COIL OF EXTRA RED AND BLUE WIRING IN ACCESS BOX. RED WIRE IS FROM THE GROUNDING ANODE AND BLUE WIRE IS THE TRACE WIRE FOR THE SERVICE PIPE THAT CONNECTS TO THE MAIN LINE WIRING.
3. DO NOT ATTACH WIRES TO RISER/ CLEANOUT TO ALLOW FOR ADJUSTMENTS TO BE MADE WITHOUT DAMAGING WIRES.
4. THE CONNECTION MUST BE MADE WITH THE GUAGE APPROPRIATE COPPERHEAD SNAKEBITE LOCKING CONNECTORS OR APPROVED EQUAL.

SANITARY SEWER SERVICE LINE TRACER WIRE DETAIL		
REVISED: 12-24	ENGINEERING DEPARTMENT	PLATE NO.: 5507

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PROJECT NO.	25-02

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

CITY STANDARD PLATES

CITY PROJECT	25-02
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GENERAL NOTE:

ALL PLANT STOCK SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1) SPECIFICATIONS.

BALLED & BURLAPPED AND CONTAINER GROWN STOCK

A4. PLANT STOCK SPECIFICATIONS

a) ALL PLANT STOCK SHALL CONFORM TO AMERICAN STANDARD FOR NURSERY STOCK.

b) A MINIMUM OF THREE STRUCTURAL ROOTS REASONABLY DISTRIBUTED AROUND THE TRUNK SHALL BE FOUND IN EACH PLANT.PLANTS WITH STRUCTURAL ROOTS ON ONLY ONE SIDE OF THE TRUNK (J ROOTS) SHALL BE REJECTED.

c) THE ROOT CROWN MUST NOT BE MORE THAN TWO INCHES BELOW THE SOIL LINE. THE TOP TWO STRUCTURAL ROOTS SHALL BE NO MORE THAN THREE INCHES BELOW THE SOIL LINE WHEN MEASURED FOUR INCHES RADIAL TO THE TRUNK. THE TOP OF THE OTHER STRUCTURAL ROOT SHALL BE NO GREATER THAN FIVE INCHES BELOW THE SOIL LINE WHEN MEASURED FOUR INCHES RADIAL TO THE TRUNK. THE GROWER MAY REQUEST A MODIFICATION TO THIS REQUIREMENT FOR SPECIES WITH ROOTS THAT RAPIDLY DESCEND, PROVIDED THAT THE GROWER REMOVES ALL CIRCLING ROOTS ABOVE THE STRUCTURAL ROOTS ACROSS THE TOP OF THE STRUCTURAL ROOTS.

d) THE ROOT SYSTEM SHALL BE REASONABLY FREE OF ROOT DEFECTS INCLUDING POTENTIALLY STEM-GIRDLING ROOTS ABOVE THE ROOT COLLAR AND MAIN STRUCTURAL ROOTS, VERTICAL ROOTS, AND/OR KINKED ROOTS FROM NURSERY PRODUCTION PRACTICES, INCLUDING ROOTS ON THE INTERIOR OF THE ROOT BALL.

e) CONTAINER-GROWN PLANTS, IN ADDITION TO THE ABOVE REQUIREMENT, SHOULD COMPLY WITH THE FOLLOWING:

1. CONTAINER-GROWN PLANTS MAY BE PERMITTED ONLY WHEN INDICATED ON THE DRAWING OR SPECIFICATION.
2. CONTAINER-GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS POTTING MEDIUM TOGETHER BUT NOT SO LONG AS TO HAVE DEVELOPED ROOTS THAT ARE MATTED OR CIRCLING AROUND THE EDGE OR INTERIOR OF THE MAIN ROOT MASS. PLANTS SHALL HAVE BEEN ROOT PRUNED AT EACH CHANGE IN CONTAINER SIZE.
3. PLANTS THAT FAIL TO MEET ANY OF THE ABOVE REQUIREMENTS SHALL BE MODIFIED TO CORRECT DEFICIENCIES IF APPROVED BY THE ENGINEER. MODIFICATION SHALL INCLUDE THE FOLLOWING:
   - i. SHAVING ALL CIRCLING ON THE EXTERIOR OF THE ROOT MASS DEEP ENOUGH SO THAT ALL CUT ROOTS' ENDS ARE ROUGHLY RADIAL TO THE TRUNK.
   - ii. REMOVAL OF ALL ROOTS ABOVE THE TOP OF THE MAIN STRUCTURAL ROOTS AND TRUNK FLARE INCLUDING ANY ROOTS THAT ARE IMPRINTS FROM PREVIOUS SMALLER CONTAINERS.
   - iii. THE ABOVE MODIFICATIONS SHALL NOT BE CAUSE TO ALTER THE WARRANTY PROVISIONS OF THIS SPECIFICATION.

f) THE CENTER OF THE TRUNK(S) OR STEM(S) OF THE PLANT SHALL BE IN THE CENTER OF THE ROOT BALL. A TOLERANCE OF 10% OF THE DIAMETER OF THE ROOT BALL IS THE MAXIMUM DEVIATION ALLOWABLE (SEE FIGURE 7) FOR EXAMPLE: FOR A PLANT WITH A 30" ROOT BALL, THE CENTER OF THE PLANT AT GROUND LEVEL SHALL BE WITHIN A THREE-INCH CIRCLE 13 1/2 INCHES FROM THE OUTER EDGE OF THE BALL.

g) MEASUREMENT: DEPTH OF THE ROOT BALL IS MEASURED FROM THE TOP OF THE BALL, WHICH IN ALL CASES SHALL BEGIN AT THE ROOT FLARE (SEE FIGURE 8). SOIL ABOVE THE ROOT FLARE,FROM BEING DEEPLY PLANTED NURSERY AS A YOUNG PLANT, AS A RESULT OF MAINTENANCE PRACTICES IN THE NURSERY, OR ADDED DURING HARVEST, SHALL NOT BE INCLUDED IN BALL DEPTH MEASUREMENT, AND SHOULD BE REMOVED.

h) PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST 2 YEARS. THEY SHALL HAVE BEEN FRESHLY DUG (DURING THE MOST RECENT FAVORABLE HARVEST SEASON).

i) PLANTS SHALL BE TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY SUPERIOR IN FORM, COMPACTNESS AND SYMMETRY. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECT ADULTS, EGGS, PUPAE OR LARVAE. THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH.

j) TREES WITH MULTIPLE LEADERS, UNLESS SPECIFIED, WILL BE REJECTED. (SEE FIGURE 6) TREES WITH A DAMAGED, CUT, OR CROOKED LEADER, INCLUDED BARK, ABRASION OF BARK, SUNSCALD, DISFIGURING KNOTS, INSECT DAMAGE, MOLD, PREMATURELY OPENED BUDS, OR CUTS OF LIMBS OVER 3/4" INCH (2 CM) DIAMETER THAT ARE NOT COMPLETELY CALLUSED ARE CAUSE FOR REJECTION.

k) BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH SOLID BALLS OF STANDARD SIZE, THE BALL SECURELY WRAPPED WITH NON-SYNTHETIC, UNTREATED, BIODEGRADABLE BURLAP, AND TIGHTLY BOUND WITH NON-SYNTHETIC, BIODEGRADABLE ROPE OR TWINE. ALTERNATIVELY THEY MAY BE PLACED IN WIRE BASKET LINED NON-SYNTHETIC, UNTREATED, BIODEGRADABLE BURLAP AND TIGHTLY BOUND WITH NON-SYNTHETIC, BIODEGRADABLE ROPE OR TWINE. ROOT COLLAR SHALL BE APPARENT AT SURFACE OF BALL. BARE ROOT PLANTS SHALL HAVE A HEALTHY, WELL BRANCHED ROOT SYSTEM CHARACTERISTIC OF THE SPECIES AND WITH ADEQUATE SPREAD.

l) PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED, EXCEPT THAT PLANTS LARGER THEN THOSE SPECIFIED MAY BE USED IF APPROVED BY THE PURCHASER. USE OF LARGER PLANTS SHALL NOT INCREASE THE CONTRACT PRICE NOR ALLOW THE CONTRACTOR TO USE SMALLER THEN SPECIFIED MATERIAL ON OTHER PLANTS. IF LARGER PLANTS ARE APPROVED, THE ROOT BALL, ROOT SPREAD, OR CONTAINER SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

m) CALIPER MEASUREMENTS SHALL BE TAKEN ON THE TRUNK 6 INCHES (15 CM) ABOVE THE ROOT COLLAR FOR TREES UP TO 4 INCHES (10 CM) IN CALIPER, AND 12 INCHES (30 CM) ABOVE THE ROOT COLLAR FOR TREES OVER 4 INCHES (10 CM) IN CALIPER. HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO THE MAIN BODY OF THE PLANT AND NOT FROM THE BRANCH TIP TO BRANCH TIP. PLANTS SHALL BE MEASURED WHEN BRANCHES ARE IN THEIR NORMAL POSITION. IF A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE, AND NO LESS THAN 50 PERCENT OF THE PLANTS SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED. PLANTS THAT MEET MEASUREMENTS BUT DO NOT POSSESS A NORMAL BALANCE BETWEEN HEIGHT AND SPREAD SHALL BE REJECTED.

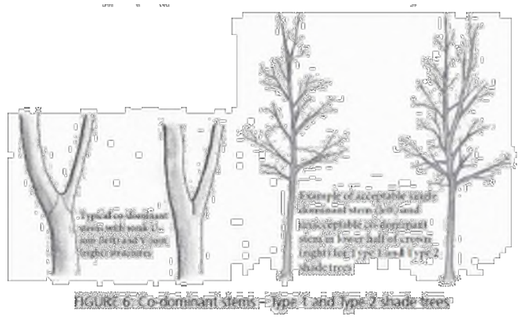


FIGURE 6 Co-dominant stems – Type 1 and Type 2 shade trees

DOMINANT & C0-DOMINANT STEMS

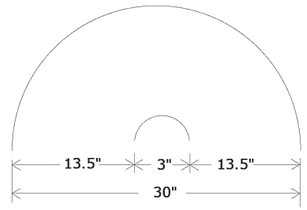


FIGURE 7 CENTER OF PLANT IN CENTER OF ROOT BALL

CENTER OF ROOT BALL

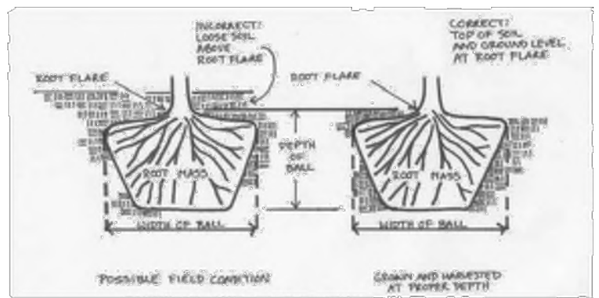


FIGURE 8 – Measurement of root ball depths

ROOT BALL DEPTHS

NURSERY STOCK SPECIFICATIONS

PLATE NO.: 5308

ENGINEERING DEPARTMENT

REVISED: 12-24

CITY OF CHANHASSEN

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PROJECT NO.	25-02

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CITY OF CHANHASSEN
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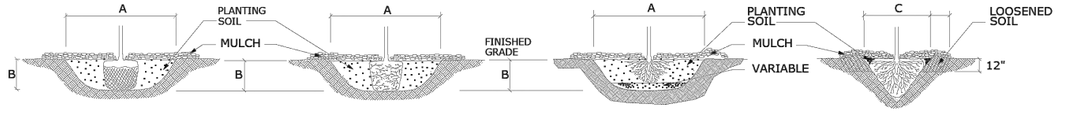
CITY STANDARD PLATES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 16 / 169

PLANTING HOLE DIMENSIONS
(MINIMUM WIDTH DOES NOT APPLY IN MASS PLANTING BEDS)
ALL VALUES ARE AS FOLLOWS:

PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH (1)
CONIFEROUS TREES	(6') SEEDLING	(15")	(14")
	(9") SEEDLING	(18")	(14")
	(12") SEEDLING	(23")	(16")
	(2') B.B.	(36")	(10")
	(3') B.B.	(42")	(11")
	(4') B.B.	(51")	(13")
	(5') B.B.	(60")	(13")
	(6') B.B.	(72")	(15")
	(7') B.B.	(66")	(16")
	(8') B.B.	(81")	(18")
	(9') B.B.	(90")	(20")
	(10') B.B.	(102")	(21")
DECIDUOUS & ORNAMENTAL TREES	(6') SEEDLING	(15")	(14")
	(12") SEEDLING	(23")	(16")
	(18") SEEDLING	(30")	(16")
	(2') SEEDLING	(36")	(18")
	(2.5') SEEDLING	(40")	(18")
	(3') B.R.	(46")	(13")
	(4') B.R.	(46")	(14")
	(7') B.R.	(48")	(14")
	(5') B.R.	(54")	(15")
	(6') B.R.	(15")	(16")
	(8') B.R.	(66")	(19")
	(0.75") B.R.	(48")	(12")
	(1") B.R.	(54")	(14")
	(1.25") B.R.	(60")	(14")
	(1.5") B.R.	(66")	(15")
	(1.75") B.R.	(72")	(16")
	(2") B.R.	(84")	(19")
	(2") B.B.	(72")	(16")
	(2.5") B.B.	(84")	(19")
	(3") B.B.	(96")	(20")
	(3.5") B.B.	(114")	(23")
	(4") B.B.	(126")	(25")
CONIFEROUS SHRUBS (UPRIGHT)	(2') B.B.	(36")	(9")
	(3') B.B.	(48")	(12")
	(4') B.B.	(63")	(14")
CONIFEROUS SHRUBS (SPREADING)	(18") SPR B.B.	(30")	(8")
	(2') SPR B.B.	(36")	(9")
	(2.5") SPR B.B.	(42")	(11")
	(3') SPR B.B.	(48")	(12")
DECIDUOUS SHRUBS	(18") B.R.	(30")	(8")
	(2') B.R.	(33")	(9")
	(3') B.R.	(42")	(11")
	(4') B.R.	(48")	(12")
	(5') B.R.	(54")	(14")
	(6') B.R.	(60")	(14")
	(18") B.B.	(27")	(7")
	(2') B.B.	(30")	(8")
	(3') B.B.	(36")	(9")
	(4') B.B.	(42")	(11")
	(5') B.B.	(48")	(12")
	(6') B.B.	(54")	(14")
CONTAINER GROWN PLANTS	CELLPACKS	(6")	(2.5")
	(2.25") CONT.	(7")	(3")
	(3.5") CONT.	(10")	(3")
	(4") CONT.	(11")	(4")
	(4.5") CONT.	(13")	(4")
	(1 QT.) CONT.	(15")	(5.5")
	(#1) CONT.	(18")	(6")
	(#2) CONT.	(23")	(7.5")
	(#3) CONT.	(29")	(8.5")
	(#5) CONT.	(30")	(11")
	(#7) CONT.	(37")	(11")
	(#15) CONT.	(44")	(14")
	(#10) CONT.	(45")	(15")
	(#20) CONT.	(60")	(17")
	(#25) CONT.	(72")	(16")
VINES	1 YR MED. B.R.	(15")	(11")
	1 YR. NO. 1 B.R.	(17")	(14")
	2 YR. MED. B.R.	(33")	(12")
	2 YR. NO. 1 B.R.	(42")	(15")
	(#1) CONT.	(18")	(6")
	(#2) CONT.	(23")	(7.5")



BALLED & BURLAPPED STOCK

1.**SCARIFY SIDES AND BOTTOM OF HOLE.

2.**PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER.

3.**SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED) , INTACT.

4.**BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. ALSO REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.

5.**PLUMB AND BACKFILL WITH THE PLANTING SOIL.

6.**WATER TO SETTLE PLANTS AND FILL VOIDS.

7.**WATER THOROUGHLY WITHIN 2 HOURS.

8.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

9.**STAKE AND GUY TO PROVIDE ADDITIONAL SUPPORT BETWEEN THE STEM AND ROOT BALL AS NECESSARY OR SPECIFIED.

CONTAINER STOCK

1.**SCARIFY SIDES AND BOTTOM OF HOLE.

2.**PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER.

3.**REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS, AS NECESSARY.

4.**SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE TOP OF THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE. REMOVE OR CORRECT STEM GIRDLING ROOTS.

5.**PLUMB AND BACKFILL WITH THE PLANTING SOIL.

6.**WATER TO SETTLE PLANTS AND FILL VOIDS.

7.**WATER THOROUGHLY WITHIN 2 HOURS.

8.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

BARE ROOT STOCK

1.**SOAK ROOTS IN WATER FOR AT LEAST ONE HOUR BUT NOT MORE THAN 24 HOURS PRIOR TO PLANTING.

2.**SCARIFY SIDES AND BOTTOM OF HOLE.

3.**PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER.

4.**TRANSFER PLANT DIRECTLY FROM WATER TO HOLE. SET PLANT SO THE ROOT FLARE IS APPROXIMATELY AT THE FINISHED SOIL ELEVATION. SPREAD ROOTS OUT EVENLY. PLUMB AND IMMEDIATELY BACKFILL WITH THE PLANTING SOIL.

5.**WATER TO SETTLE PLANTS AND FILL VOIDS.

6.**WATER THOROUGHLY WITHIN 2 HOURS.

7.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

STOCK(TREE SPADE) MACHINE -TRANSPLANT

1.**SCARIFY SIDES AND BOTTOM OF HOLE.

2.**ADD CORRECTIVE PRUNING.

3.**SET PLANT ON NATIVE SOIL AT SAME DEPTH AS IT WAS PREVIOUSLY GROWN.

4.**PLUMB AND BACKFILL WITH THE PLANTING SOIL.

5.**WATER TO SETTLE PLANTS AND FILL VOIDS.

6.**AFTER PLANTING, LOOSEN THE SOIL IMMEDIATELY ADJACENT TO THE SPADE-MOVED SOIL TO A MINIMUM DISTANCE OF 18" AND A MINIMUM DEPTH OF 12".

7.**WATER THOROUGHLY WITHIN 2 HOURS

8.**PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

9.**STAKE AND GUY TO PROVIDE ADDITIONAL SUPPORT BETWEEN THE STEM AND ROOT BALL AS NECESSARY OR SPECIFIED.

MINIMUM TREE SPADE SIZE REQUIREMENTS

SPADE DIAMETER SIZE 'C'	OAK TREES, CALIPER	DECIDUOUS/ ORNAMENTAL TREES,CALIPER	CONIFEROUS TREES, HEIGHT
42"	1' to 1.5'	2' to 3'	5' to 7'
60"	1.5' to 2.5'	3' to 4'	7' to 9'
78"	2.5' to 3.5'	4' to 6'	9' to 14'
85"	3.5' to 5'	6' to 8'	14' to 18'

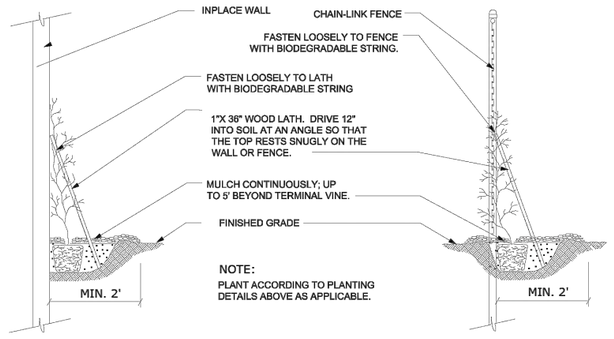
PLANTING DETAILS FOR ISOLATED PLANTING LOCATIONS

GENERAL NOTE:

ALL PLANT STOCK MUST BE ACCEPTED IN ACCORDANCE OF Mn/DOT 3861 PRIOR TO FOLLOWING THE STANDARD PLANTING DETAILS. PLANTING SOIL IS A COMBINATION OF THOROUGHLY MIXED EXISTING SOIL AND COMPOST MIX AND/OR ANY OTHER SPECIFIED AMENDMENTS.

NOTE:

1.**HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.



NOTE:
PLANT ACCORDING TO PLANTING DETAILS ABOVE AS APPLICABLE.

VINE PLANTING DETAIL

PLANTING DETAILS FOR TYPICAL INDIVIDUAL PLANTINGS

PLATE NO.: 5309

ENGINEERING DEPARTMENT

REVISED: 12-24

CITY OF CHANHASSEN

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No.	Date	Revisions	App.

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DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

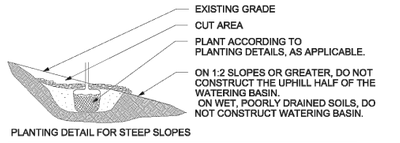
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2026 IMPROVEMENTS

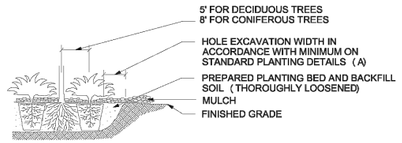
CITY STANDARD PLATES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 17



PLANTING DETAIL FOR STEEP SLOPES



PLANTING DETAIL FOR MASS PLANTING BEDS



● - INDICATES PROJECT LOCATION

KEY	SPRING				FALL	
	PERENNIALS	CONIFEROUS	DECIDUOUS	SEEDLINGS	DECIDUOUS	CONIFEROUS
1	MAY 1 TO JUNE 15	APRIL 21 TO JUNE 1	APRIL 21 TO JUNE 1	APRIL 21 TO JUNE 1	OCT. 1 TO NOV. 1	AUG. 25 TO SEPT. 15
2	MAY 1 TO JUNE 15	APRIL 7 TO MAY 17	APRIL 7 TO JUNE 1	APRIL 7 TO MAY 17	OCT. 10 TO NOV. 15	AUG. 25 TO SEPT. 15

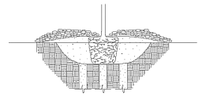
NOTES:

1.**BARE ROOT PERENNIALS MUST BE INSTALLED IN THE SPRING BY JUNE 1ST. IF PLANTING IN FALL, FOLLOW FALL DECIDUOUS PLANTING DATES.

2.**ACTUAL DATES MAY CHANGE DEPENDING UPON SEASONAL CONDITIONS, AS DETERMINED BY THE ENGINEER.

3.**FALL PLANTING MAY NOT BE RECOMMENDED OR ALLOWED. SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS. THE FOLLOWING BARE ROOT PLANTS ARE NOT RECOMMENDED FOR FALL INSTALLATION: HAWTHORN, RUSSIAN OLIVE, DOGWOOD, POPLAR, HACKBERRY, LINDEN, IRONWOOD, HONEYLOCUST, BIRCH, MOUNTAIN ASH, MAPLE, WILLOW, CRABAPPLE, PLUM/CHERRY, OAKS, AND SUMAC.

OPTIMUM PLANTING DATE ZONES IN MINNESOTA



INSTALL GRANULAR FILTER

1.**EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.

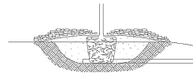
2.**AUGER 8" DIAMETER HOLES ENTIRELY THROUGH IMPERVIOUS OR POORLY DRAINED HARD PAN SOIL LAYER TO ADEQUATELY DRAIN SUBSOIL.

3.**THOROUGHLY BACKFILL AUGER HOLES WITH A UNIFORM INCORPORATED MIXTURE OF 50% SAND AND 50% INPLACE SOIL.

4.**COMPLETE PLANTING ACCORDING TO PLANTING DETAILS (SHEET A).

NOTES:

THE NEED FOR USING ALTERNATIVE PLANTING DETAILS AND WHICH TYPE TO USE SHALL BE DETERMINED BY THE CONTRACTOR AND SUBJECT TO APPROVAL BY THE ENGINEER.



INSTALL TILE DRAINAGE

1.**EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF THE ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.

2.**INSTALL 4" MINIMUM DIAMETER DRAIN TILE DAYLIGHTING AT A LOWER GRADE, AS APPROVED BY THE ENGINEER.

3.**COMPLETE PLANTING ACCORDING TO PLANTING DETAILS (SHEET A).



INSTALL MINI-BERM

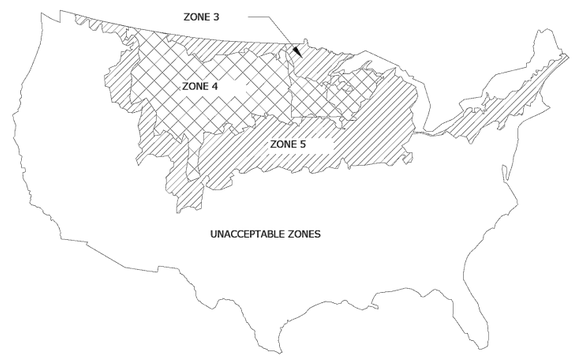
1.**EXCAVATE HOLE OR BED 1/4 THE DEPTH OF THE ROOT MASS.

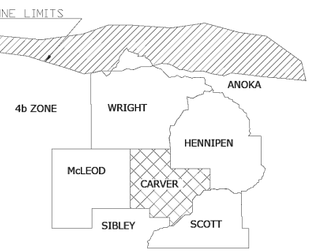
2.**SET ROOT MASS IN HOLE.

3.**CONSTRUCT BERM WITH SANDY LOAM TOPSOIL. EXTEND THE BERM BASE TO A WIDTH OF 3 TIMES THE BERM HEIGHT.

4.**COMPLETE PLANTING ACCORDING TO PLANTING DETAILS (SHEET A).

ALTERNATIVE PLANTING DETAILS FOR POORLY DRAINED SOIL





PLANT HARDINESS IN CHANHASSEN IS ZONE 4b

AVERAGE ANNUAL EXTREME MINIMUM TEMPERATURE RANGE FOR ZONE 4b IS -25 TO -20 DEGREES (F)

ALL PLANT STOCK SHALL BE DEEMED ACCEPTABLE FOR HARDINESS:

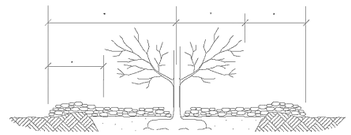
1.**IF IT IS HARDY TO THE MINNESOTA ZONE 4b WHERE THE PROJECT SITE IS LOCATED AND:

A.**PLANT STOCK CAN BE DOCUMENTED AS CONTINUOUSLY GROWN FOR AT LEAST THE LAST TWO YEARS WITHIN THE ACCEPTABLE LIMITS ZONES 3,4 OR 5 SHOWN ON THE ACCEPTABLE PLANT STOCK GROWING RANGE ABOVE.

OR

B.**PLANT STOCK, IF GROWN OUTSIDE THE ACCEPTABLE GROWING RANGE LIMITS, CAN BE DOCUMENTED AS HAVING THE SEED SOURCE AND ROOT AND GRAFT STOCK ORIGINATING FROM WITHIN THE ACCEPTABLE GROWING RANGE LIMITS.

ACCEPTABLE PLANT STOCK GROWING RANGE LIMITS
SOURCE: U.S.D.A. PLANT HARDINESS ZONE MAP



SUBSIDING OR DETERIORATING MULCH SHALL BE ACCEPTABLE THROUGHOUT THE CONTRACT PERIOD PROVIDED THE MULCH DEPTH IS MAINTAINED AT A MINIMUM 3" DEPTH AT ALL TIMES AND UPON FINAL ACCEPTANCE. REPLACEMENT MULCH SHALL BE REQUIRED WHEN THE CONTRACTOR'S OPERATIONS HAVE CONTAMINATED THE MULCH WITH SOIL.

NOTES:

1.**REMOVE MULCH PLACED TO A DEPTH GREATER THAN THAT SPECIFIED WHEN DIRECTED BY THE ENGINEER.

2.**PULL MULCH BACK NO LESS THAN 3" AND NO MORE THAN 6" FROM THE TRUNK

TYPE OF PLANT	W CENTER OF PLANT TO MULCH LINE	X EDGE OF BRANCHING TO MULCH LINE	Y DEPTH OF MULCH	Z DEPTH OF MULCH
CONIFEROUS TREES	VARIES	3' MIN.	4"- 6"	4"- 6"
DECIDUOUS TREES	3' MIN.	N/A	4"- 6"	4"- 6"
CONIFEROUS SHRUBS	VARIES	3' MIN.	3"- 4"	4"- 6"
DECIDUOUS SHRUBS	3' MIN.	N/A	4"- 6"	4"- 6"
VINES	2' MIN.	N/A	4"- 6"	4"- 6"
PERENNIALS	VARIES	2' MIN.	2"- 4"	2"- 4"
MACHINE-TRANSPLANTED TREES	12" BEYOND EDGE OF HOLE		4"- 6"	4"- 6"

MULCH PLACEMENT DETAIL

PLANTING DETAILS FOR STEEP SLOPES/MASS BED PLANTINGS

ENGINEERING DEPARTMENT

PLATE NO.: 5310

REVISED: 12-24

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

CITY STANDARD PLATES

CITY PROJECT	25-02
S.A.P.	194-123-002

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NOTES:

1.**FORM A DOUBLE-LAYERED CYLINDER USING 0.25" GRID GALVANIZED WELDED WIRE MESH (HARDWARE CLOTH). OVERLAP THE CUT END 2".

2.**DRIVE TWO 1" x 1" OPPOSING HEARTWOOD WHITE OAK STAKES INTO THE GROUND 7" FROM THE CENTER OF THE TREE STEM.

3.**SECURE THE MESH CYLINDER TO THE OUTSIDE OF THE STAKES USING EITHER, SCREWS AND WASHERS OR RATCHET-LOCKING TIES ALONG THE OVERLAP. SPACE APPROXIMATELY 4" ON CENTER ALONG THE OVERLAP.

**SCREWS SHALL BE ROUND HEAD GALVANIZED 1/8" DIA. x 3/4" LONG WITH WASHERS.

OR

**RATCHET-LOCK TIES SHALL BE NYLON AND AT LEAST 8" LONG.

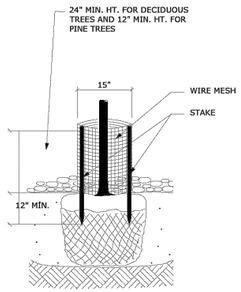
4.**IMBED THE LOWER EDGE OF THE MESH CYLINDER 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.

5.**CUT EDGES WILL NOT BE PERMITTED AT THE TOP OF THE CYLINDER. CUT THE STAKE FLUSH WITH THE TOP OF THE CYLINDER.

6.**MULCH WITHIN THE CYLINDER SHALL NOT EXCEED 3" DEPTH AND SHALL BE PULLED BACK FROM THE TRUNK AS SPECIFIED IN MULCH PLACEMENT DETAIL.

7.**THE BOTTOM WHORL OF PINE BRANCHES MAY HAVE TO BE REMOVED TO PERMIT INSTALLATION OF 12" MIN. HEIGHT RODENT GUARDS.

INSTALL ON ALL DECIDUOUS AND PINE TREES, DO NOT INSTALL ON SPRUCE TREES.



RODENT PROTECTION DETAIL (OPTION 1)

NOTES:

1.**FOLD OVER THE TOP EDGE OF THE HDPE (HIGH DENSITY POLYETHYLENE) TOWARDS THE THREE BOTTOM TABS.

2.**BEND THE HDPE INTO A CIRCLE WITH THE SIDE TABS ON THE OUTSIDE OF THE CIRCLE.

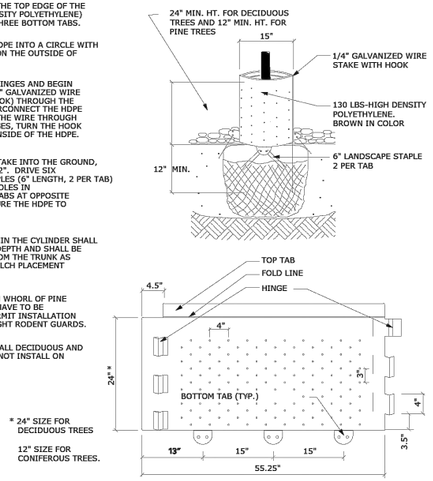
3.**ALIGN THE HINGES AND BEGIN SLIDING THE 1/4" GALVANIZED WIRE STAKE (WITH HOOK) THROUGH THE HINGES TO INTERCONNECT THE HDPE AFTER SLIDING THE WIRE THROUGH ALL OF THE HINGES, TURN THE HOOK TOWARDS THE INSIDE OF THE HDPE.

4.**PUSH THE STAKE INTO THE GROUND, A MINIMUM OF 12". DRIVE SIX LANDSCAPE STAPLES (6" LENGTH, 2 PER TAB) THROUGH THE HOLES IN THE 3 BOTTOM TABS AT OPPOSITE ANGLES TO SECURE THE HDPE TO THE GROUND.

5.**MULCH WITHIN THE CYLINDER SHALL NOT EXCEED 3" DEPTH AND SHALL BE PULLED BACK FROM THE TRUNK AS SPECIFIED IN MULCH PLACEMENT DETAIL.

6.**THE BOTTOM WHORL OF PINE BRANCHES MAY HAVE TO BE REMOVED TO PERMIT INSTALLATION OF 12" MIN. HEIGHT RODENT GUARDS.

7.**INSTALL ON ALL DECIDUOUS AND PINE TREES, DO NOT INSTALL ON SPRUCE TREES.

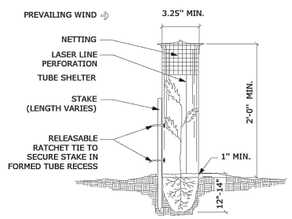


* 24" SIZE FOR DECIDUOUS TREES

12" SIZE FOR CONIFEROUS TREES.

RODENT PROTECTION DETAIL (OPTION 2)

GENERAL NOTES		
SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS.		
PLANTING HOLE AND BED CULTIVATION	THE PLANTING DETAILS REPRESENT ADEQUATELY DRAINED SOIL CONDITIONS. THE CONTRACTOR SHOULD EXERCISE DISCRETION IN SETTING PLANTS 1"-3" HIGHER IN POORLY DRAINED SOILS OR USING ALTERNATIVE PLANTING DETAILS ON SHEET B.	
	THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE IN HEAVY POORLY DRAINED OR IMPERVIOUS SOILS.	
	LOOSEN ALL ISOLATED TREE PLANTING LOCATIONS AND PLANTING BEDS TO A MINIMUM DEPTH OF 12". SOIL AMENDMENTS SHALL BE APPLIED DURING CULTIVATION.	
BACKFILL SOIL	USE CULTIVATED AND AMENDED SOIL EXCAVATED FROM PLANTING HOLES. REMOVE ALL DEBRIS INCLUDING ROCKS LARGER THAN 3" DIAMETER.	
FERTILIZER	MN/DOT 3881	
COMPOST	Mn/DOT 3890	
MULCH MATERIAL	Mn/DOT 3882 TYPE 6 UNLESS OTHERWISE SPECIFIED.	
MASS PLANTING	MASS PREPARE PLANT SPACING OF ___ OR LESS. PLANT IN STAGGERED ROWS ON THE PERIMETER FIRST, THEN UNIFORMLY FILL IN WITH REMAINING QUANTITY. USE TRIANGULAR SPACING, UNLESS SPECIFIED OTHERWISE. PROVIDE 5' RADIUS CLEAR OF SHRUBS AROUND EACH DECIDUOUS TREE AND 8' RADIUS AROUND EACH EVERGREEN TREE. THIS RADIUS (CLEARANCE) SHALL BE MEASURED FROM THE CENTER OF THE TREE TO THE CENTER OF THE SHRUB. NOTIFY ENGINEER OF GROSS PLANT QUANTITY SURPLUS OR DEFICIENCY IMMEDIATELY. MASS MULCH PLANT SPACINGS OF ___ OR LESS.	
TREE PAINTING	PAINT OAKS, LINDENS, LOCUSTS, MAPLES, CRABAPPLES AND MOUNTAIN ASH. ONLY UNDILUTED EXTERIOR WHITE LATEX PAINT IS ACCEPTABLE. PAINT TREE CIRCUMFERENCE FROM GROUND LINE TO FIRST MAJOR BRANCH.	
PLANTING PLAN	RESPECT STATED DIMENSIONS BEFORE SCALING FROM PLAN.	
WATERING GUIDELINES	PLANT TYPE	AVERAGE AMOUNT OF WATER PER APPLICATION IN GALLONS
	MACHINE TRANSPLANTED TREES 42" AND UP	50 - 100
	BARE ROOT TREES	15
	BALLED & BURLAPPED SHRUBS	10
	BARE ROOT OR CONTAINER SHRUBS	7
	WOODY SEEDLINGS	4
	PERENNIALS AND VINES	3
	IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR AND MAINTAIN SOIL MOISTURE AT ADEQUATE BUT NOT EXCESSIVE LEVELS. THE ABOVE LISTED APPLICATION AMOUNTS ARE GUIDELINES, NOT REQUIREMENTS.	



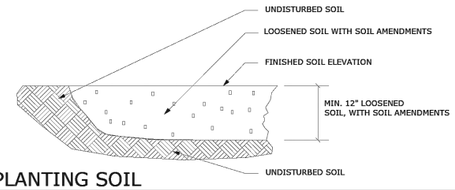
NOTES:

1.**USE SEAMLESS, EXTRUDED, TWIN-WALL, RIGID AND SEMI TRANSLUCENT POLYPROPYLENE TUBES WITH A LASER LINE PERFORATION AND AN OUTWARD-FLARED TOP RIM.

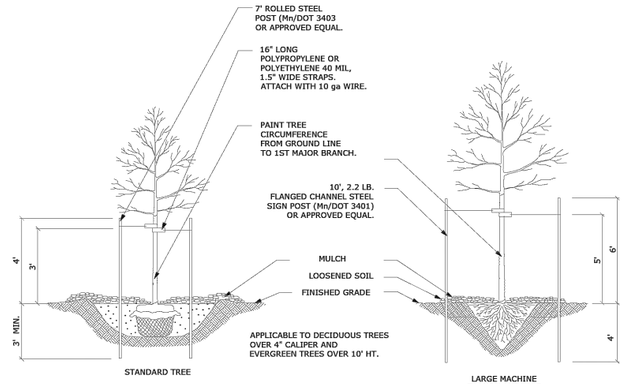
2.**SECURE THE SHELTER WITH NYLON RACHET-LOCKING TIES ATTACHED TO A 1" x 1" WHITE OAK STAKE TO PREVENT DISLODGING OR TWISTING. IMBED THE BOTTOM OF THE TUBE A MINIMUM OF 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.

3.**INSTALL A PLASTIC PHOTODEGRADABLE NETTING COVER AND SLEEVE OVER THE TOP OF THE TUBE TO PREVENT ENTRAPMENT OF BIRDS. PULL NETTING DOWN AS SHOWN.

SEEDLING TREE SHELTER DETAIL



PLANTING SOIL



NOTES:

1.**STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES. PLACE OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.

2.**REQUESTS TO SUBSTITUTE RUBBER HOSE AND WIRE GUYING SYSTEMS WILL NOT BE APPROVED.

3.**TREE STAKING IS NOT REQUIRED UNLESS SPECIFIED OR NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION WHERE VANDALISM, SOIL, OR WIND CONDITIONS ARE A PROBLEM, OR AS REQUESTED BY THE ENGINEER.

4.**REMOVE AFTER ONE YEAR.

STAKING / GUYING DETAIL

PLANTING DETAIL

PLATE NO.: 5311

ENGINEERING DEPARTMENT

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CITY OF CHANHASSEN

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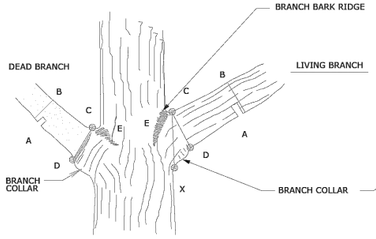
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CITY OF CHANHASSEN
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2026 IMPROVEMENTS

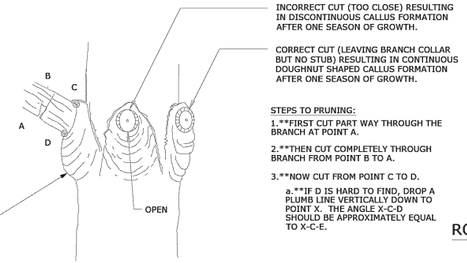
CITY STANDARD PLATES

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HARDWOODS



SOME CONIFERS

STEPS TO PRUNING:

1.**FIRST CUT PART WAY THROUGH THE BRANCH AT POINT A.

2.**THEN CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.

3.**NOW CUT FROM POINT C TO D.

a.**IF D IS HARD TO FIND, DROP A PLUMB LINE VERTICALLY DOWN TO POINT X. THE ANGLE X-C-D SHOULD BE APPROXIMATELY EQUAL TO X-C-E.

PRUNING NOTES:

1.**LEAVE BRANCH COLLAR (C TO D)

2.**DO NOT FLUSH CUT (C TO X)

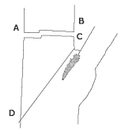
3.**DO NOT LEAVE STUBS (B TO A)

4.**BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.

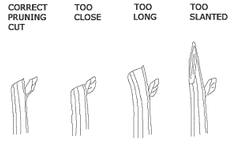
5.**AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.

6.**IMMEDIATELY PAINT OAK WOUNDS MADE IN APRIL, MAY, JUNE OR JULY WITH LATEX PAINT OR SHELLAC.

DROP CROTCH PRUNING IS USED FOR REDUCING THE HEIGHT OR LENGTH OF MAIN STEMS OR BRANCHES BY CUTTING BACK TO A LARGE LATERAL BRANCH.



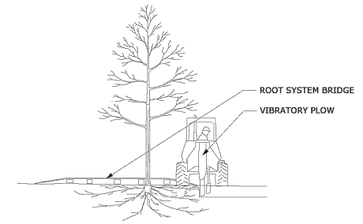
DROP CROTCH OR CUTTING BACK



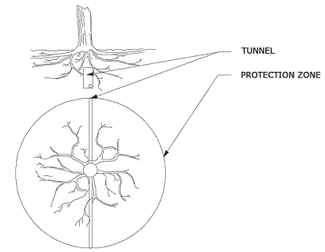
PRUNING SMALL BRANCHES

BRANCHES SMALLER THEN 2" IN DIAMETER SHOULD BE CUT JUST BEYOND A LATERAL BUD OR ANOTHER SMALL LATERAL BRANCH. THE IDEAL CUT SHOULD BE SHARP, CLEAN, AND MADE ON A SLIGHT ANGLE.

PRUNING DETAILS (Shigo Method)



ROOT SYSTEM BRIDGE AND VIBRATORY PLOW



UTILITY INSTALLATION TUNNEL

NOTES:

1.**REDUCE COMPACTION ON ROOT SYSTEMS WHERE IT OCCURS BY DRILLING 50 mm (2") DIAM. HOLES IN THE SOIL TO A DEPTH OF 450 mm (18"). BEGIN 3' FROM THE TREE TRUNK AND CONTINUE AT 2' INTERVALS IN CONCENTRIC RINGS OUT TO THE PROTECTION ZONE.

2.**WATERING OF ROOT DAMAGED TREES WILL BE REQUIRED TO MAINTAIN ADEQUATE BUT NOT EXCESSIVE SOIL MOISTURE TO A DEPTH OF 18" WITHIN THE UNDISTURBED PORTION OF THE IMPACTED TREE DRIPLINE.

3.**A 6 INCH LAYER OF WOODCHIP MULCH PLACED OVER A TYPE III (3733) GEOTEXTILE FABRIC MAY BE USED IN LIEU OF THE ROOT SYSTEM BRIDGE.

4.**WHEN DESIGNATED IN THE PLAN OR WHEN DIRECTED BY THE ENGINEER, ALL TREE ROOTS AT THE CONSTRUCTION LIMITS SHALL BE CUT CLEANLY (TO THE MAXIMUM DEPTH NECESSARY FOR CONSTRUCTION) WITH A VIBRATORY PLOW OR OTHER APPROVED ROOT CUTTER PRIOR TO ANY EXCAVATION. ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6" LAYER OF ADJACENT SOIL. BACKFILL, REGRADE, OR INSTALL RETAINING WALL AS DESIGNATED IN THE PLAN OR WHEN DIRECTED BY THE ENGINEER.

5.**IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, CONSTRUCT ROOT SYSTEM BRIDGES WITH STEEL PLATE SUPPORTED ON WOOD TIMBERS PLACED RADIALLY TO THE TREE TRUNK.

TREE PROTECTION ZONE	
TREE DIAMETER AT 4.5' ABOVE GROUND	* MINIMUM DISTANCE FROM FACE OF TREE TRUNK
0"-2"	2'
3"-4"	4'
5"-9"	6'
10"-14"	10'
15"-19"	12'
19" +	15'

* WHEN UTILITY INSTALLATIONS MUST OCCUR WITHIN THE TREE PROTECTION ZONE, AS DEFINED IN THE ABOVE CHART, THE CONTRACTOR SHALL BORE (TUNNEL) UNDER TREE ROOTS THAT ARE TO BE PRESERVED. THE CONTRACTOR SHALL BORE AT A MINIMUM DEPTH OF 24" BELOW THE GROUND SURFACE WITHIN THIS ZONE

ROOT PROTECTION AND TRENCHING DETAILS

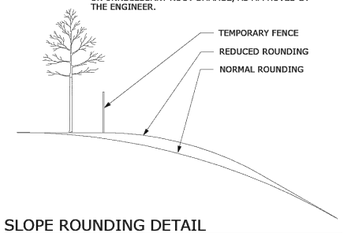
SIGNIFICANT TREES NEAR THE PROPOSED CONSTRUCTION LIMITS WILL BE IDENTIFIED IN THE PLAN OR BY THE ENGINEER AND PRESERVED BY THE CONTRACTOR.

NOTES:

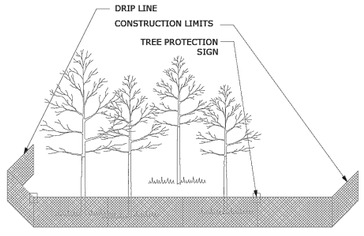
1.**PLACE THE TEMPORARY FENCE.

2.**REDUCE SLOPE ROUNDING WHERE ROOT ZONES WILL BE DISTURBED BY NORMAL SLOPE ROUNDING, AS APPROVED BY THE ENGINEER.

3.**VARY BACK SLOPE STEEPNESS TO AVOID TREE LOSS OR UNNECESSARY ROOT DAMAGE, AS APPROVED BY THE ENGINEER.

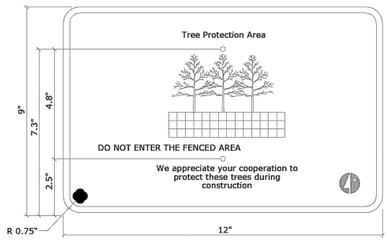


SLOPE ROUNDING DETAIL



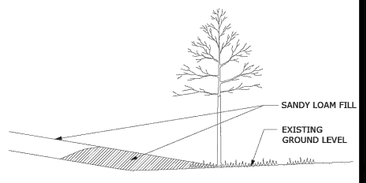
FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIPLINE OR CONSTRUCTION LIMITS AS SPECIFIED, PRIOR TO ANY CONSTRUCTION. WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIP LINE. PLACE PROTECTION SIGNS ALONG FENCE AT 20' INTERVALS.

TEMPORARY PROTECTION FENCE PLACEMENT DETAIL



FABRICATE 12" X 9"X 3/8" SIGN WITH 0.75" RADIUS CORNERS. SIGN SHALL BE WHITE WITH BLACK LETTERING. ATTACH SIGN TO POST USING 1" LENGTH WOOD SCREWS, PLACED AT 2.5" AND 7.3" RESPECTIVELY FROM THE BOTTOM EDGE OF THE SIGN.

TREE PROTECTION SIGN DETAIL



ANY FILL REQUIRED WITHIN THE DRIP LINE OF TREES SHALL BE AN UNCOMPACTED (WITH A COARSE SAND COMPONENT) SANDY LOAM TOPSOIL. EXCESSIVE FILL MAY REQUIRE INSTALLING PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END OPENING AS AN AERATION SYSTEM.

SANDY LOAM FILL DETAIL

VEGETATION PROTECTION DETAIL

PLATE NO.: 5312

ENGINEERING DEPARTMENT

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CITY OF CHANHASSEN

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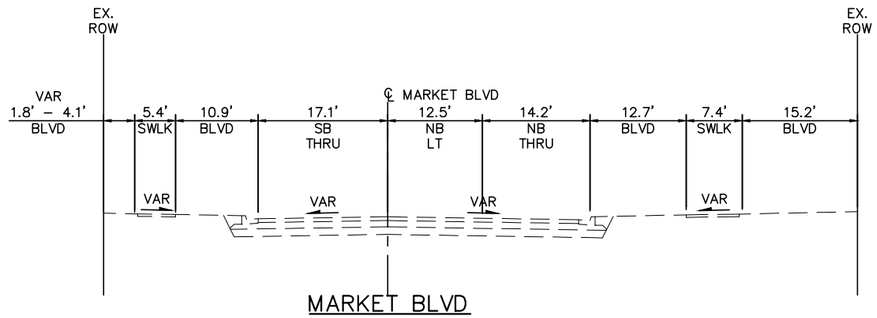
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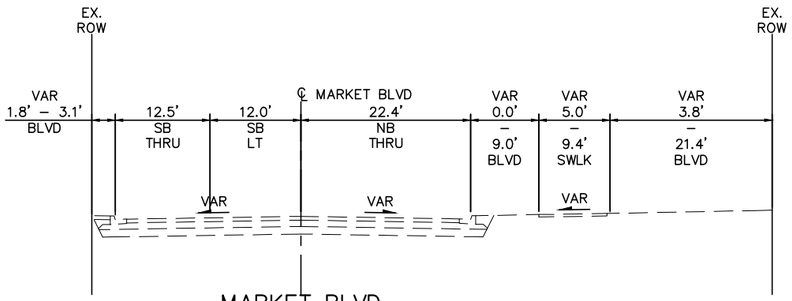
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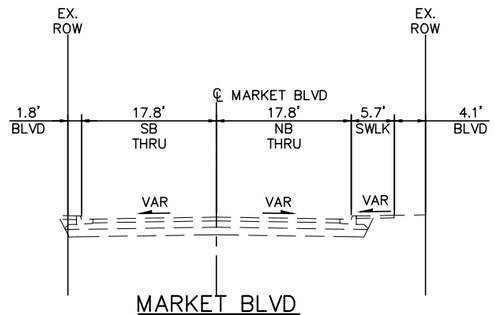
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MARKET BLVD



MARKET BLVD



MARKET BLVD

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

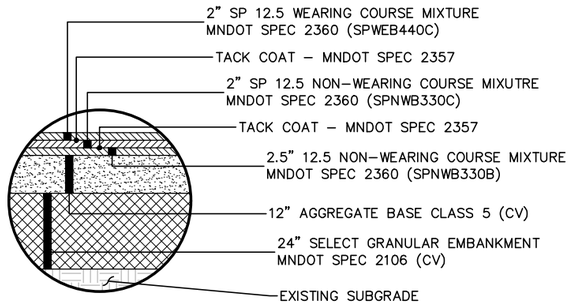
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EXISTING TYPICAL SECTIONS

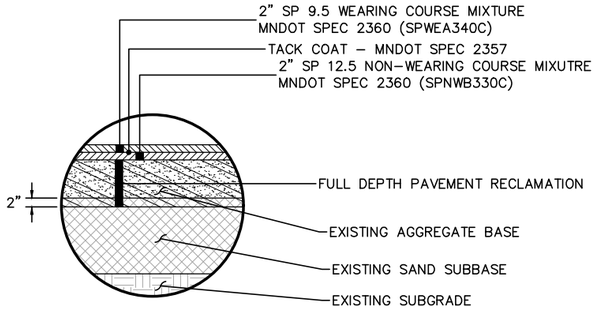
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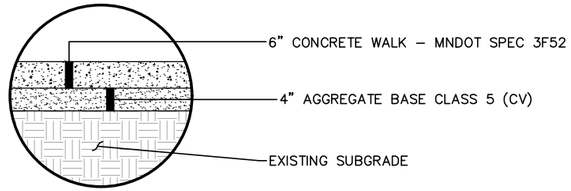
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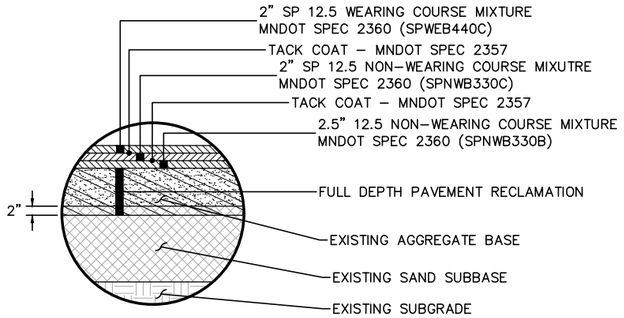
INSET A: BITUMINOUS ROADWAY
FULL DEPTH RECONSTRUCTION



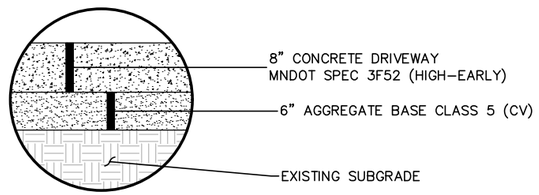
INSET D: BITUMINOUS ROADWAY
FULL DEPTH RECLAMATION
(CHAN VIEW AND MARKET BLVD NORTH
OF W 78TH ST)



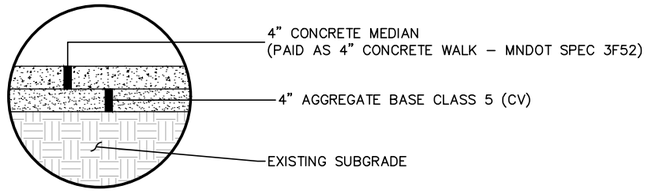
INSET G: CONCRETE WALK



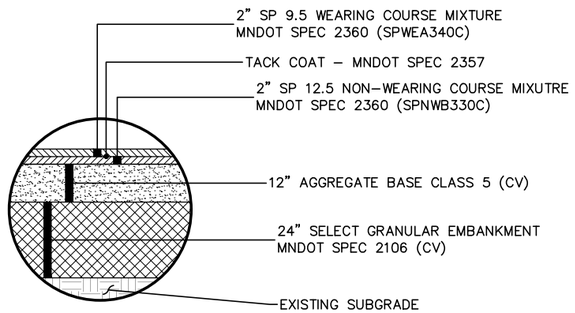
INSET B: BITUMINOUS ROADWAY
FULL DEPTH RECLAMATION



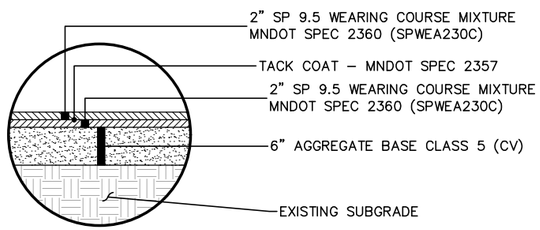
INSET E: CONCRETE DRIVEWAY



INSET H: CONCRETE MEDIAN



INSET C: BITUMINOUS ROADWAY
FULL DEPTH RECONSTRUCTION



INSET F: BITUMINOUS DRIVEWAY

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–TYPC.dwg	
DESIGNED BY:	MAK
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DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
WWW.KIMLEY–HORN.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

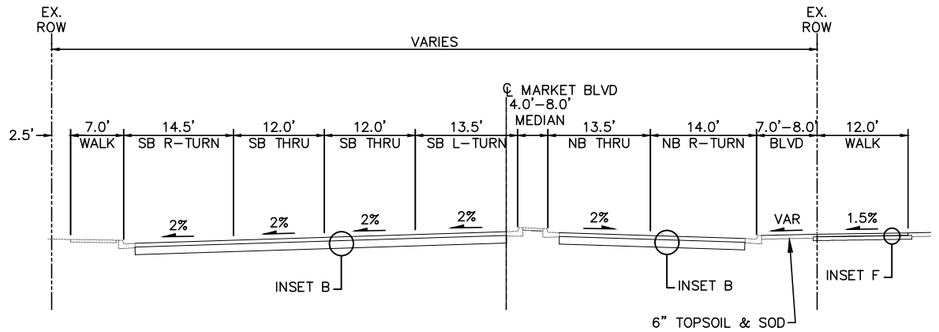
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

PROPOSED TYPICAL SECTIONS - INSETS

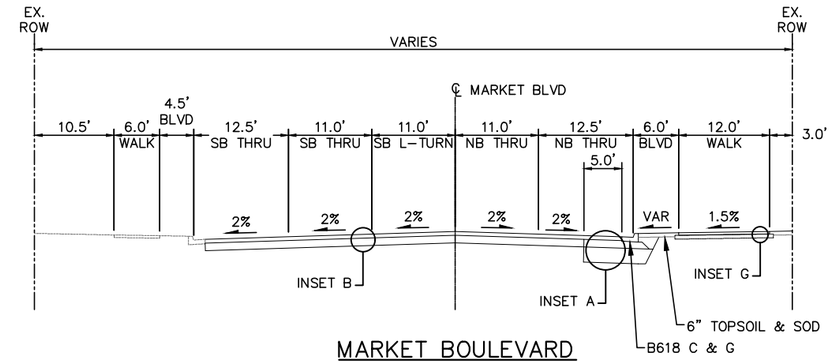
CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 22 / 169

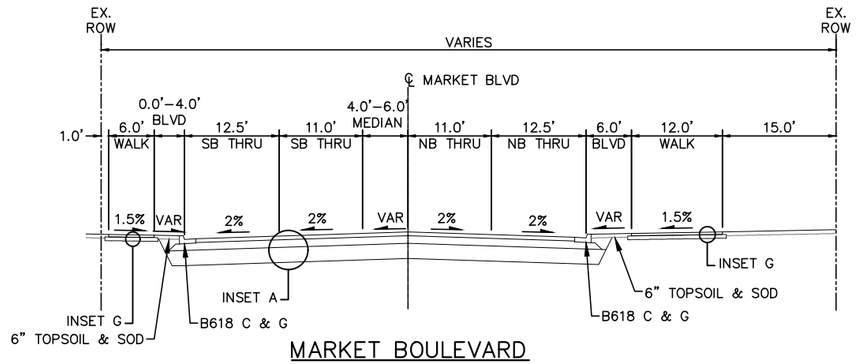
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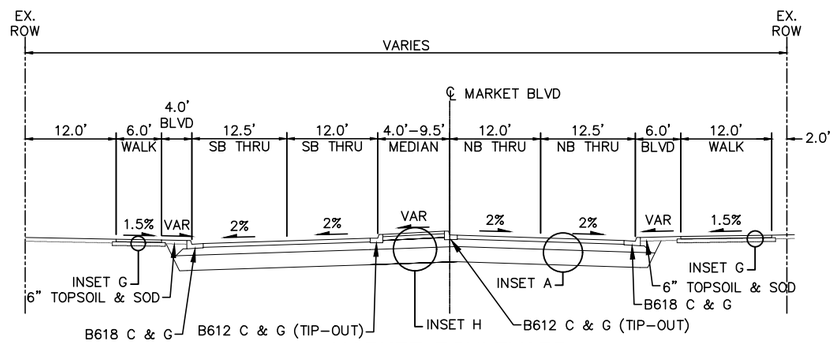
MARKET BOULEVARD
STA 101+47 TO 102+27



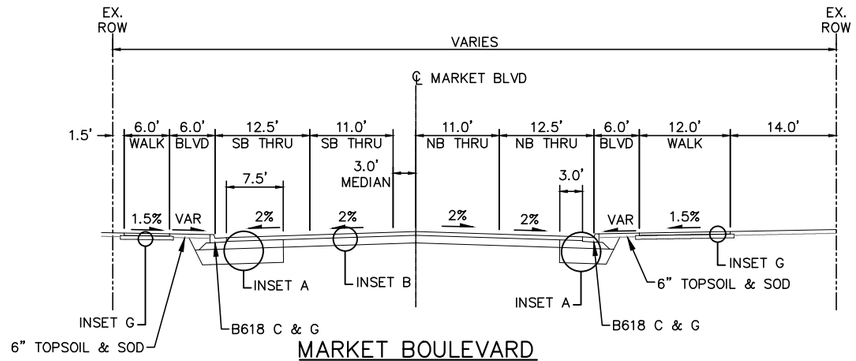
MARKET BOULEVARD
STA 104+05 TO 104+44



MARKET BOULEVARD
STA 107+84 TO 108+86



MARKET BOULEVARD
STA 105+98 TO 107+84



MARKET BOULEVARD
STA 108+86 TO 109+58

GENERAL NOTES:

1. DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
2. 1.5' OF CLEARANCE MUST BE PROVIDED FROM FACE OF CURB TO FIXED OBJECTS.
3. ALL STATIONING IS BASED ON "MARKET BOULEVARD" ALIGNMENT UNLESS OTHERWISE NOTED.
4. A 2.0' CLEAR ZONE FROM EDGE OF WALK SHALL BE MAINTAINED AT ALL TIMES.
5. SEE SHEET 22 FOR PROPOSED INSETS

No.	Date	Revisions	App.

DRAWING NAME: 2026–MARKET–TYPC.dwg
DESIGNED BY: MAK
DRAWN BY: RCH
CHECKED BY: MAK
DATE: 2/20/2026
PROJECT NO. 25–02

Kimley»Horn
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DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

PROPOSED TYPICAL SECTIONS

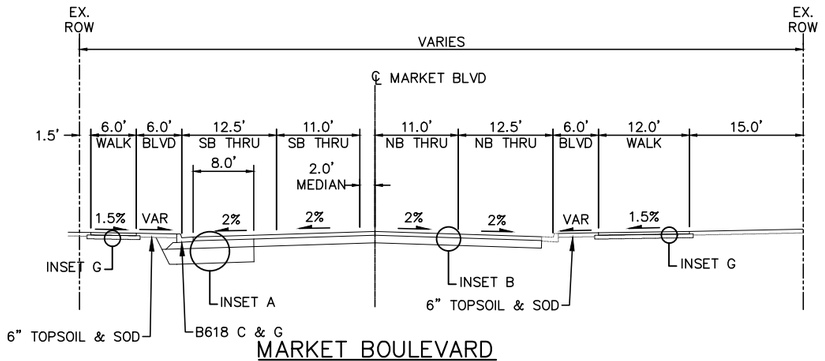
CITY PROJECT 25–02
S.A.P. 194–123–002

SHEET NO. 23 / 169

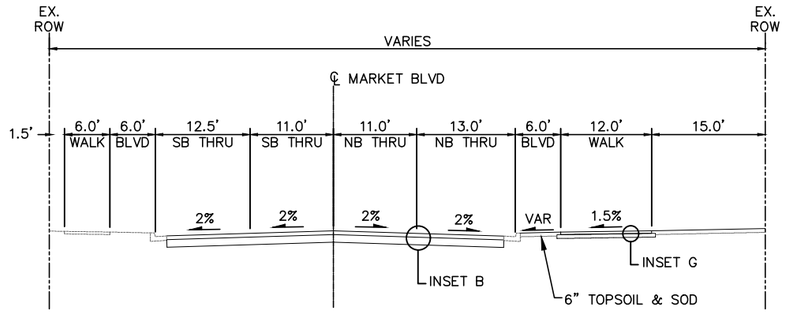
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GENERAL NOTES:

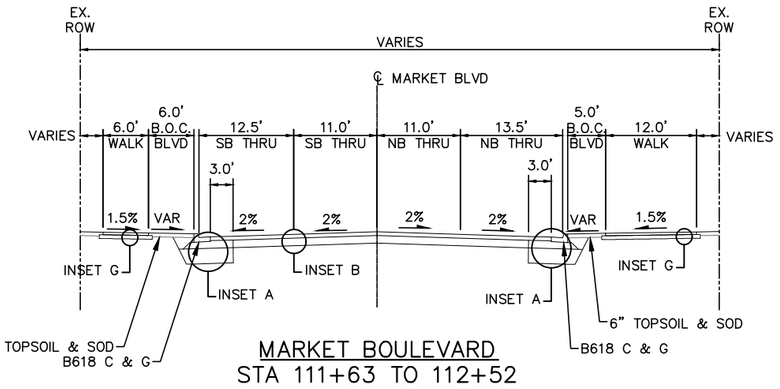
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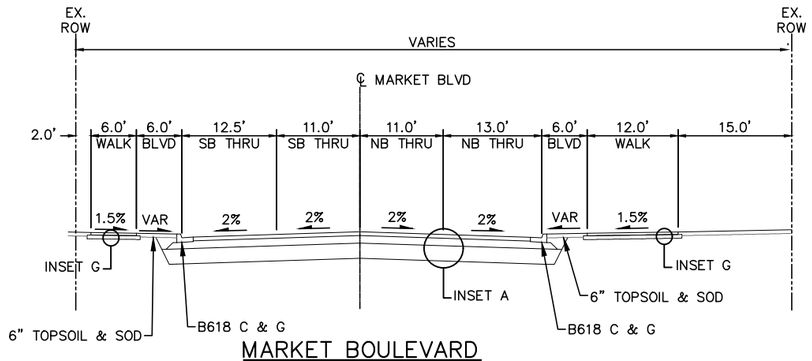
MARKET BOULEVARD
STA 109+58 TO 110+20



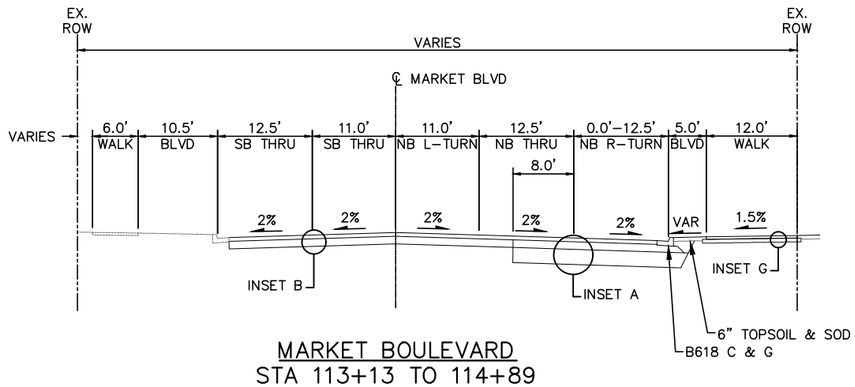
MARKET BOULEVARD
STA 110+20 TO 110+62
STA 110+89 TO 111+63
STA 112+52 TO 113+13



MARKET BOULEVARD
STA 111+63 TO 112+52



MARKET BOULEVARD
STA 110+62 TO 110+89



MARKET BOULEVARD
STA 113+13 TO 114+89

No.	Date	Revisions	App.

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

PROPOSED TYPICAL SECTIONS

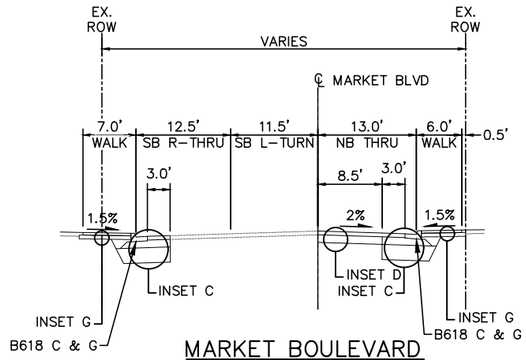
CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 24

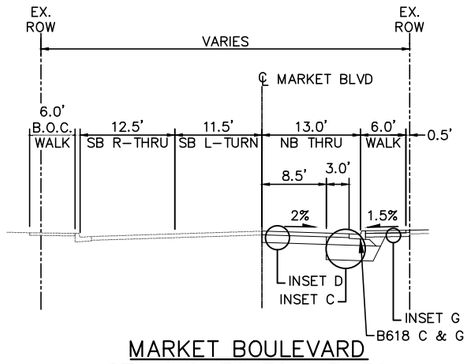
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GENERAL NOTES:

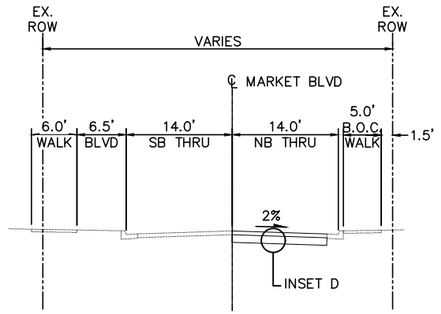
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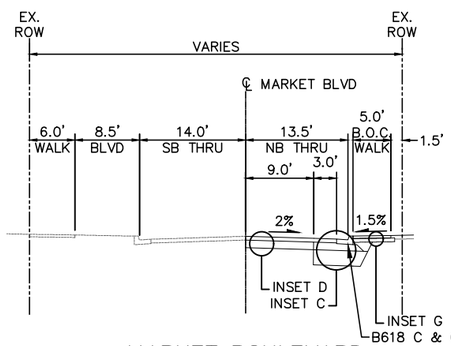
MARKET BOULEVARD
STA 116+53 TO 116+79



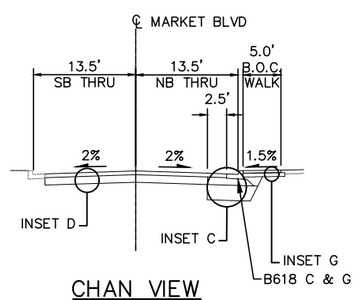
MARKET BOULEVARD
STA 116+79 TO 117+39



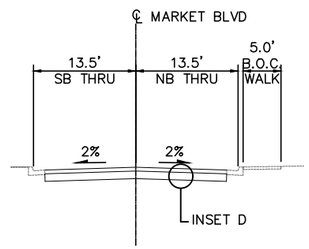
MARKET BOULEVARD
STA 117+69 TO 119+02
STA 119+87 TO 120+02



MARKET BOULEVARD
STA 117+39 TO 117+69
STA 119+02 TO 119+87



CHAN VIEW
STA 121+37 TO 121+91
STA 123+14 TO 123+68



CHAN VIEW
STA 120+47 TO 121+37
STA 121+91 TO 123+14
STA 123+68 TO 124+23

No.	Date	Revisions	App.

DRAWING NAME	2026-MARKET-TYPC.dwg
DESIGNED BY:	MAK
DRAWN BY:	RCH
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DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
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PHONE: 612-315-1272
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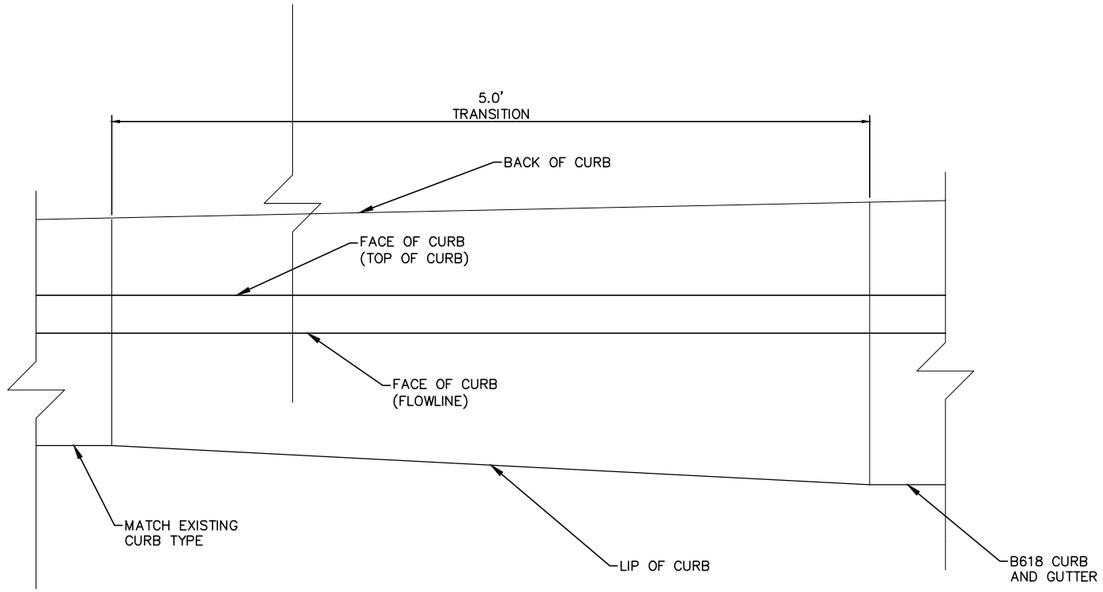
MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

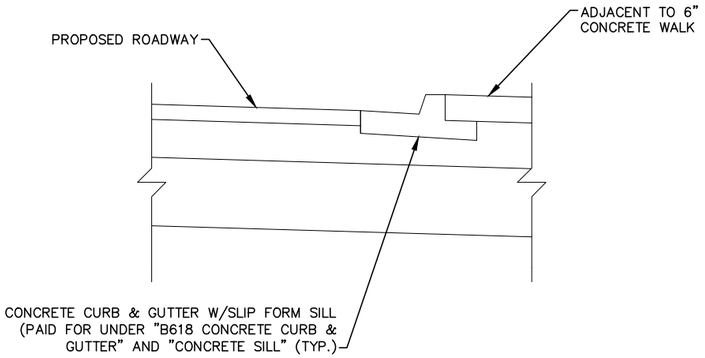
PROPOSED TYPICAL SECTIONS

CITY PROJECT	25-02
S.A.P.	194-123-002

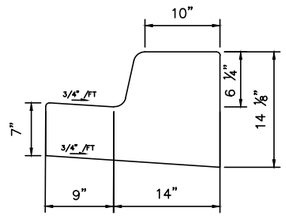
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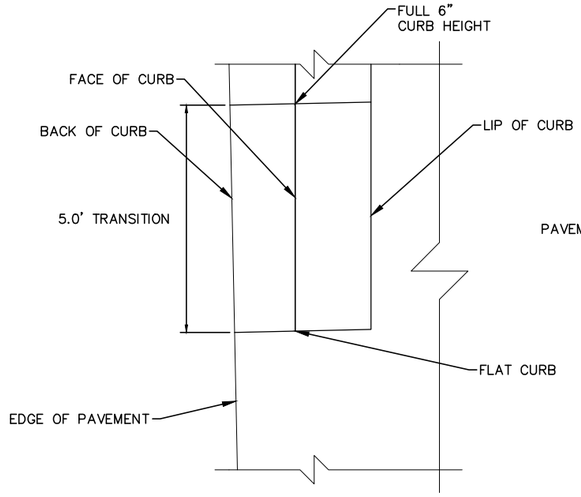
5' CONCRETE CURB & GUTTER TRANSTION DETAIL:

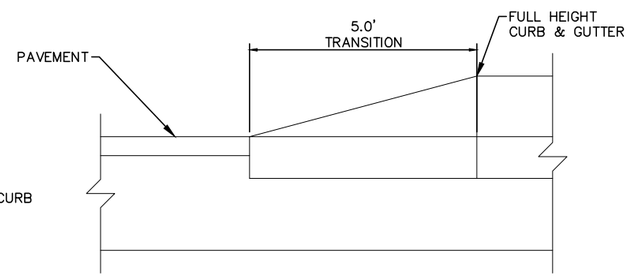


CONCRETE CURB & GUTTER WITH SLIP FOR SILL DETAIL:



SPECIAL DESIGN 1 CONCRETE CURB & GUTTER DETAIL: (W 78TH ST – MEDIAN)





5' CURB TAPER DETAIL: (AT RAILROAD CROSSING)

No.	Date	Revisions	App.

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MICHAEL A. KIRSCH
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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

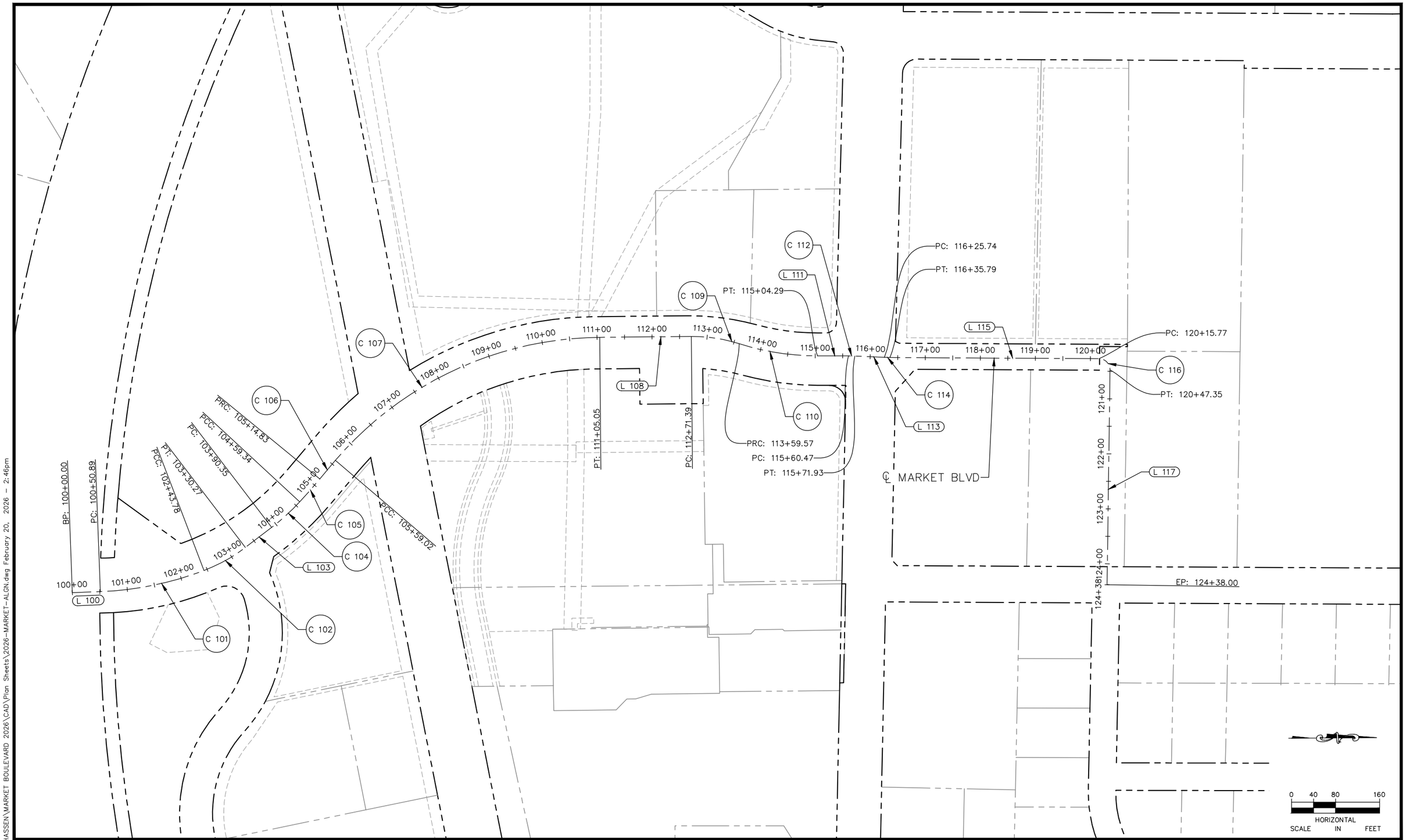
CONSTRUCTION DETAILS

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 26

169

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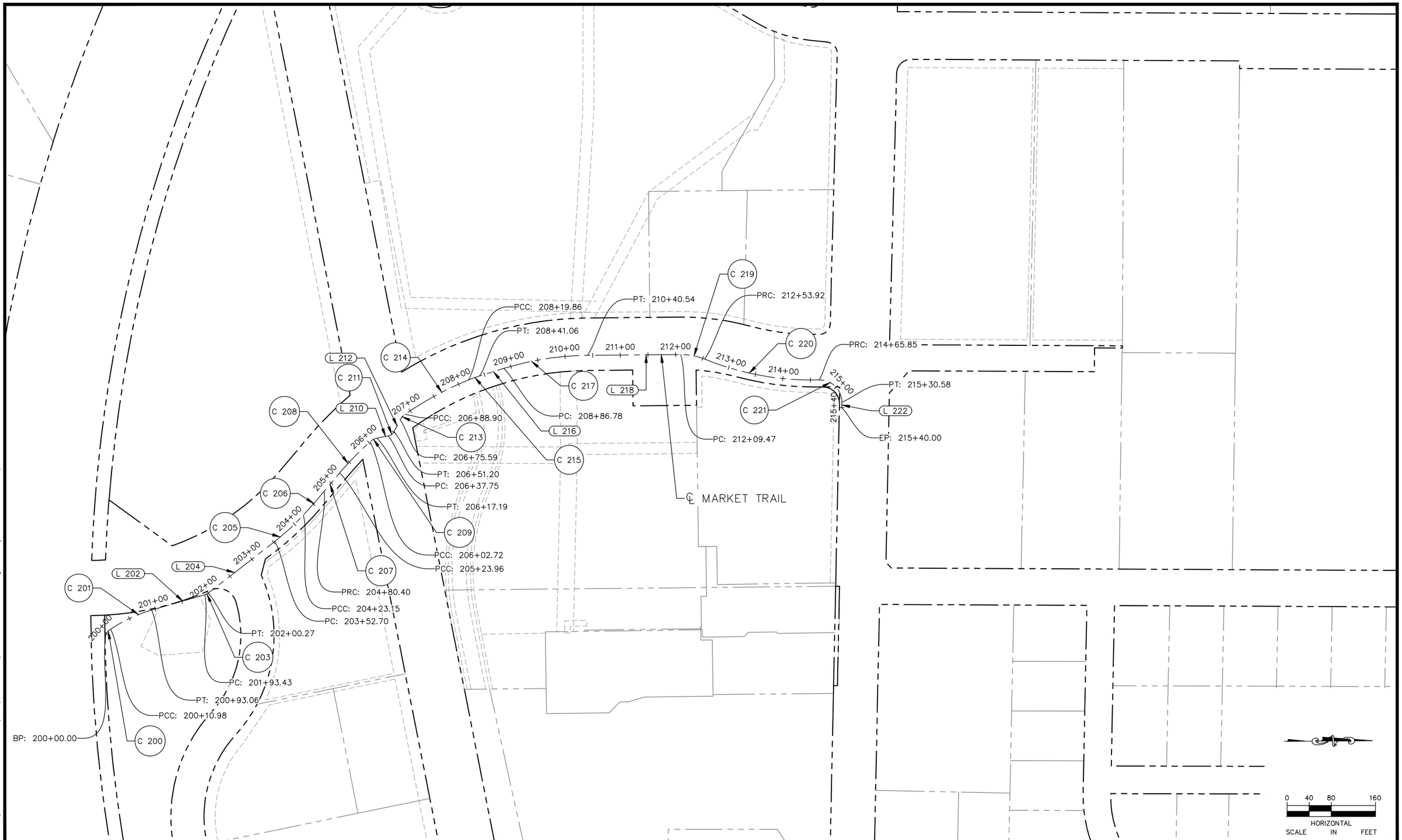
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

ALIGNMENT PLANS AND TABULATIONS
MARKET BLVD

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 27 / 169

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

ALIGNMENT PLANS AND TABULATIONS
MARKET TRAIL

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 28 / 169



No.	Date	Revisions	App.

DRAWING NAME	2026–MARKET–ALGN.dwg
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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

ALIGNMENT PLANS AND TABULATIONS
MARKET WALK

CITY PROJECT	25–02
S.A.P.	194–123–002
SHEET NO.	29
	169

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ALIGNMENT DATA
MARKET BLVD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L 100	100+00.00	100+50.89							50.89	179759.00	559743.59	179809.86	559741.71	357°52'45"
C 101	100+50.89	102+43.78	101+48.20		18°43'54"	9°42'40.14"	590.00	97.31	192.89	179809.86	559741.71	179998.05	559703.47	357°52'45" 339°08'50"
C 102	102+43.78	103+30.27	102+87.33		16°31'04"	19°05'54.94"	300.00	43.55	86.49	179998.05	559703.47	180073.35	559661.54	339°08'50" 322°37'47"
L 103	103+30.27	103+90.35							60.08	180073.35	559661.54	180121.09	559625.07	322°37'47"
C 104	103+90.35	104+59.34	104+24.93		9°50'51"	14°16'28.25"	401.39	34.58	68.99	180121.09	559625.07	180172.06	559578.71	322°37'47" 312°46'56"
C 105	104+59.34	105+14.83	104+87.09		3°24'28"	6°08'27.70"	933.00	27.75	55.49	180172.06	559578.71	180208.52	559536.88	312°46'56" 309°22'28"
C 106	105+14.83	105+59.02	105+36.92		1°13'47"	2°46'57.33"	2059.08	22.10	44.19	180208.52	559536.88	180236.92	559503.02	309°22'28" 310°36'15"
C 107	105+59.02	111+05.05	108+49.90		48°52'59"	8°57'08.88"	640.00	290.88	546.03	180236.92	559503.02	180717.09	559279.58	310°36'15" 359°29'14"
L 108	111+05.05	112+71.39							166.34	180717.09	559279.58	180883.43	559278.09	359°29'14"
C 109	112+71.39	113+59.57	113+15.85		18°10'24"	20°36'35.97"	278.00	44.46	88.18	180883.43	559278.09	180970.26	559291.18	359°29'14" 17°39'38"
C 110	113+59.57	115+04.29	114+32.51		17°39'38"	12°12'12.87"	469.50	72.94	144.72	180970.26	559291.18	181112.69	559313.31	17°39'38" 0°00'00"
L 111	115+04.29	115+60.47							56.19	181112.69	559313.31	181168.88	559313.31	0°00'00"
C 112	115+60.47	115+71.93	115+66.20		2°37'30"	22°55'05.92"	250.00	5.73	11.45	181168.88	559313.31	181180.33	559313.57	0°00'00" 2°37'30"
L 113	115+71.93	116+25.74							53.81	181180.33	559313.57	181234.08	559316.04	2°37'30"
C 114	116+25.74	116+35.79	116+30.77		2°18'18"	22°55'05.92"	250.00	5.03	10.06	181234.08	559316.04	181244.14	559316.29	2°37'30" 0°19'12"
L 115	116+35.79	120+15.77							379.98	181244.14	559316.29	181624.11	559318.42	0°19'12"
C 116	120+15.77	120+47.35	120+35.94		90°27'52"	286°28'44.03"	20.00	20.16	31.58	181624.11	559318.42	181644.00	559338.69	0°19'12" 90°47'04"
L 117	120+47.35	124+38.00							390.65	181644.00	559338.69	181638.65	559729.31	90°47'04"

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PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

ALIGNMENT PLANS AND TABULATIONS
MARKET BLVD

CITY PROJECT	25-02
S.A.P.	194-123-002

ALIGNMENT DATA
MARKET TRAIL

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C 200	200+00.00	200+10.98	200+05.52		14°58'57"	136°25'06.68"	42.00	5.52	10.98	179836.73	559812.57	179844.93	559805.32	310°59'55" 325°58'52"
C 201	200+10.98	200+93.06	200+52.36		17°56'54"	21°52'07.03"	262.00	41.38	82.07	179844.93	559805.32	179918.98	559770.71	325°58'52" 343°55'46"
L 202	200+93.06	201+93.43							100.37	179918.98	559770.71	180015.43	559742.93	343°55'46"
C 203	201+93.43	202+00.27	201+96.89		21°46'42"	318°18'35.59"	18.00	3.46	6.84	180015.43	559742.93	180021.49	559739.85	343°55'46" 322°09'04"
L 204	202+00.27	203+52.70							152.43	180021.49	559739.85	180141.85	559646.32	322°09'04"
C 205	203+52.70	204+23.15	203+88.00		9°22'08"	13°17'50.01"	430.89	35.31	70.46	180141.85	559646.32	180193.71	559598.74	322°09'04" 312°46'56"
C 206	204+23.15	204+80.40	204+51.78		3°24'28"	5°57'10.11"	962.50	28.63	57.25	180193.71	559598.74	180231.32	559555.59	312°46'56" 309°22'28"
C 207	204+80.40	205+23.96	205+02.18		1°13'47"	2°49'22.93"	2029.58	21.78	43.56	180231.32	559555.59	180259.32	559522.22	309°22'28" 310°36'15"
C 208	205+23.96	206+02.72	205+63.39		7°23'30"	9°23'06.21"	610.50	39.43	78.76	180259.32	559522.22	180314.28	559465.89	310°36'15" 317°59'45"
C 209	206+02.72	206+17.19	206+10.13		30°42'11"	212°12'23.73"	27.00	7.41	14.47	180314.28	559465.89	180327.06	559459.48	317°59'45" 348°41'56"
L 210	206+17.19	206+37.75							20.57	180327.06	559459.48	180347.23	559455.45	348°41'56"
C 211	206+37.75	206+51.20	206+44.97		51°22'40"	381°58'18.71"	15.00	7.22	13.45	180347.23	559455.45	180357.62	559447.63	348°41'56" 297°19'17"
L 212	206+51.20	206+75.59							24.39	180357.62	559447.63	180368.81	559425.96	297°19'17"
C 213	206+75.59	206+88.90	206+82.38		28°14'06"	212°12'23.73"	27.00	6.79	13.31	180368.81	559425.96	180377.53	559416.08	297°19'17" 325°33'23"
C 214	206+88.90	208+19.86	207+54.63		12°17'27"	9°23'06.21"	610.50	65.73	130.96	180377.53	559416.08	180492.61	559354.12	325°33'23" 337°50'50"
C 215	208+19.86	208+41.06	208+30.47		4°51'36"	22°55'05.92"	250.00	10.61	21.21	180492.61	559354.12	180512.57	559346.97	337°50'50" 342°42'26"
L 216	208+41.06	208+86.78							45.72	180512.57	559346.97	180556.22	559333.38	342°42'26"
C 217	208+86.78	210+40.54	209+64.21		16°46'48"	10°54'48.53"	525.00	77.43	153.76	180556.22	559333.38	180707.58	559309.67	342°42'26" 359°29'14"
L 218	210+40.54	212+09.47							168.93	180707.58	559309.67	180876.51	559308.15	359°29'14"
C 219	212+09.47	212+53.92	212+31.99		22°44'20"	51°09'25.01"	112.00	22.52	44.45	180876.51	559308.15	180919.87	559316.47	359°29'14" 22°13'34"
C 220	212+53.92	214+65.85	213+61.43		23°49'28"	11°14'30.00"	509.67	107.52	211.93	180919.87	559316.47	181126.88	559354.14	22°13'34" 358°24'06"
C 221	214+65.85	215+30.58	215+07.79		92°43'18"	143°14'22.02"	40.00	41.95	64.73	181126.88	559354.14	181167.99	559394.91	358°24'06" 91°07'24"
L 222	215+30.58	215+40.00							9.42	181167.99	559394.91	181167.80	559404.33	91°07'24"

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

ALIGNMENT PLANS AND TABULATIONS
MARKET TRAIL

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 31

ALIGNMENT DATA
MARKET WALK

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L 300	300+00.00	300+09.11							9.11	180214.18	559469.35	180220.65	559462.92	315°10'28"
C 301	300+09.11	300+10.93	300+10.02		3°28'28"	190°59'09.35"	30.00	0.91	1.82	180220.65	559462.92	180221.90	559461.60	315°10'28" 311°42'00"
C 302	300+10.93	300+93.79	300+52.45		9°23'31"	11°20'04.12"	505.50	41.52	82.86	180221.90	559461.60	180281.83	559404.52	311°42'00" 321°05'31"
C 303	300+93.79	301+01.56	300+97.72		21°11'09"	272°50'13.36"	21.00	3.93	7.76	180281.83	559404.52	180286.85	559398.65	321°05'31" 299°54'22"
L 304	301+01.56	301+28.60							27.05	180286.85	559398.65	180300.33	559375.20	299°54'22"
C 305	301+28.60	301+41.38	301+35.41		48°47'34"	381°58'18.71"	15.00	6.80	12.77	180300.33	559375.20	180310.39	559367.97	299°54'22" 348°41'56"
L 306	301+41.38	301+69.86							28.48	180310.39	559367.97	180338.33	559362.39	348°41'56"
C 307	301+69.86	301+77.27	301+73.61		20°13'34"	272°50'13.36"	21.00	3.75	7.41	180338.33	559362.39	180345.19	559359.70	348°41'56" 328°28'22"
L 308	301+77.27	301+87.35							10.08	180345.19	559359.70	180353.78	559354.43	328°28'22"
C 309	301+87.35	301+93.21	301+90.29		11°10'59"	190°59'09.35"	30.00	2.94	5.86	180353.78	559354.43	180359.04	559351.87	328°28'22" 339°39'21"
L 310	301+93.21	302+07.30							14.10	180359.04	559351.87	180372.26	559346.97	339°39'21"
C 311	302+07.30	302+11.97	302+09.64		8°55'04"	190°59'09.35"	30.00	2.34	4.67	180372.26	559346.97	180376.49	559345.01	339°39'21" 330°44'17"
C 312	302+11.97	302+68.46	302+40.23		4°36'32"	8°09'35.34"	702.17	28.26	56.48	180376.49	559345.01	180426.82	559319.42	330°44'17" 335°20'49"
C 313	302+68.46	302+72.98	302+70.72		8°38'31"	190°59'09.35"	30.00	2.27	4.52	180426.82	559319.42	180430.78	559317.23	335°20'49" 326°42'18"
L 314	302+72.98	302+87.84							14.86	180430.78	559317.23	180443.20	559309.07	326°42'18"
C 315	302+87.84	302+94.47	302+91.17		12°39'53"	190°59'09.35"	30.00	3.33	6.63	180443.20	559309.07	180449.10	559306.07	326°42'18" 339°22'11"
L 316	302+94.47	303+75.98							81.51	180449.10	559306.07	180525.38	559277.35	339°22'11"
C 317	303+75.98	303+77.23	303+76.61		4°47'09"	381°58'18.71"	15.00	0.63	1.25	180525.38	559277.35	180526.57	559276.96	339°22'11" 344°09'20"
C 318	303+77.23	304+11.90	303+94.57		2°48'38"	8°06'30.01"	706.63	17.34	34.66	180526.57	559276.96	180560.13	559268.32	344°09'20" 346°57'58"
C 319	304+11.90	304+14.48	304+13.19		4°56'03"	190°59'09.35"	30.00	1.29	2.58	180560.13	559268.32	180562.67	559267.84	346°57'58" 351°54'01"
L 320	304+14.48	304+18.20							3.72	180562.67	559267.84	180566.36	559267.32	351°54'01"

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

ALIGNMENT PLANS AND TABULATIONS
MARKET WALK

CITY PROJECT	25-02
S.A.P.	194-123-002

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT DESCRIPTION/LOCATION

THE MARKET BOULEVARD IMPROVEMENTS PROJECT (CP 25–02, S.A.P. 194–123–002) IS LOCATED ON MARKET BOULEVARD FROM MN TRUNK HIGHWAY 5 TO CHAN VIEW AND ON CHAN VIEW FROM MARKET BOULEVARD TO LAREDO DRIVE.

CONSTRUCTION ACTIVITIES INCLUDED IN THIS PROJECT ARE BITUMINOUS SURFACING, AGGREGATE BASE, GRADING, FULL–DEPTH RECLAMATION, ADA IMPROVEMENTS, CONCRETE CURB & GUTTER, STORM SEWER, SANITARY SEWER, WATER MAIN, LIGHTING, TRAFFIC SIGNALS AND STORMWATER TREATMENT FACILITIES.

SPECIAL AND IMPAIRED WATERS

THE FOLLOWING SPECIAL AND IMPAIRED WATERS ARE LOCATED WITHIN ONE MILE (AERIAL RADIUS) OF THE PROJECT LIMITS AND THAT RECEIVE RUNOFF FROM THE PROJECT SITE.

WATERBODY	IMPAIRMENT(S)
LAKE SUSAN	MERCURY IN FISH TISSUES; NUTRIENTS
RICE MARSH LAKE	NUTRIENTS
LOTUS LAKE	FISH BIOASSESSMENTS; MERCURY IN FISH TISSUES; NUTRIENTS

AREAS OF ENVIRONMENTAL SENSITIVITY (AES) AND INFESTED WATERS

THERE ARE NO ADDITIONAL AREAS OF ENVIRONMENTAL SENSITIVITY OR INFESTED WATERS WTIHIN AND NEAR THE PROJECT BOUNDARY.

SOIL TYPES

THIS PROJECT PRIMARILY CONTAINS SANDY CLAY AND SILTY SAND PROVIDED BY BRAUN INTERTEC IN THE FINAL GEOTECHNICAL REPORT DATED FEBRUARY 2, 2026.

THERE ARE NO KNOWN OR PROPOSED DISCHARGES TO CALCAREOUS FENS ON THIS PROJECT.

ENVIRONMENTAL REVIEW

THERE ARE NO STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENTAL, ARCHEOLOGICAL OR AGENCY REVIEW. ALL MITIGATION MEASURES HAVE BEEN ADDRESSED IN THIS PLAN SET OR THE SPECIAL PROVISIONS.

THIS PROJECT IS LOCATED IN A WELL HEAD PROTECTION AREA.

THIS PROJECT IS LOCATED IN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA) WITH A LOW VULNERABILITY RATING.

LAND FEATURE CHANGES

TOTAL DISTURBED AREA	5.49 ACRES
TOTAL EXISTING IMPERVIOUS SURFACE AREA	3.51 ACRES
TOTAL PROPOSED IMPERVIOUS SURFACE AREA	3.64 ACRES
TOTAL PROPOSED NET CHANGE IN IMPERVIOUS SURFACE AREA	0.13 ACRES

BMP STORM WATER BASIN:

THIS PROJECT DOES NOT HAVE A NET IMPERVIOUS INCREASE GREATER THAN 1.0 ACRE. STORM WATER TREATMENT IS NOT REQUIRED PER NPDES GENERAL PERMIT. STORM WATER RUNOFF IS TREATED VIA THREE BASINS ON THE PROJECT, ONE EXISTING REGIONAL BASIN AND TWO PROPOSED FILTRATION BMPs. STORM WATER BASINS ARE DESIGNED AS SMART PONDS FOR FLOODING MITIGATION AND FOR TREATMENT OF WATER USE THROUGH CITY OWNED IRRIGATION SYSTEM. WATER IN THESE BASINS WILL BE TREATED AND PUMPED UP TO THE CITY OF CHANHASSEN CIVIC CENTER CISTERN FOR NON–DRINKING WATER, IRRIGATION USE.

LONG TERM MAINTENANCE AND OPERATION

THE CITY OF CHANHASSEN IS RESPONSIBLE FOR THE LONG TERM MAINTENANCE AND OPERATION OF THE PERMANENT STORMWATER SYSTEM. THE REGIONAL BASIN ON THE NORTHWEST CORNER OF MARKET AND TH 5 HAS A JOINT MANTENANCE AGREEMENT BETWEEN MnDOT AND THE CITY OF CHANHASSEN.

PROJECT PERSONNEL AND TRAINING

THIS SWPPP WAS PREPARED BY PERSONNEL THAT ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATIONS ARE AVAILABLE UPON REQUEST. NAME: JOHN SEAGRIST, TRAINING EXPIRES: MAY 2027

PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES. THE EROSION CONTROL SUPERVISOR WILL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

PROVIDE AT LEAST ONE CERTIFIED INSTALLER FOR EACH CONTRACTOR OR SUBCONTRACTOR THAT PLACES THE PRODUCTS LISTED IN SPECIFICATION SECTION 2573.3.A.2. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

CHAIN OF RESPONSIBILITY

CARVER COUNTY, CITY OF CHANHASSEN, AND THE CONTRACTOR ARE COPERMITEES FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. CITY OR COUNTY CONSTRUCTION PROJECT ENGINEER WILL ENSURE THAT THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL SUPERVISOR FULFILLS THEIR DUTIES.

PROJECT CONTACTS

ORGANIZATION	CONTACT NAME	PHONE
CONTRACTOR'S EROSION AND SEDIMENT CONTROL SUPERVISOR		
MNDOT METRO WRE (EROSION CONTROL/MS4)	JASON SWENSON	651–234–7539
CITY OF CHANHASSEN	JOE SEIDL	952–227–1168
CITY OF CHANHASSEN	RYAN PINKALLA	952–227–1173
WATER RESOURCES (WRE) DESIGN	ADAM TJADEN	612–503–8531
MINNESOTA POLLUTION CONTROL AGENCY	MYLES PETERSON	651–757–2101
MINNESOTA DEPARTMENT OF NATURAL RESOURCES	TAYLOR HUINKER	651–259–5790

MPCA DUTY OFFICER 24 HOUR EMERGENCY NOTIFICATION:
651–649–5451 OR 800–422–0798

LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE SPECIAL PROVISIONS, MNDOT SPEC BOOK (2025 EDITION), OR ON FILE WITH THE ENGINEER. THE NOTES AND TABLE BELOW ARE INTENDED TO BE A QUICK REFERENCE FOR THE CONTRACTOR AND PROJECT ENGINEER TO USE IN THE FIELD. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET.

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

DESCRIPTION	LOCATION
TEMPORARY EROSION CONTROL MEASURES	SHEETS NO. 36 – 40
FINAL STABILIZATION	SHEETS NO. 36 – 40
SOILS AND CONSTRUCTION NOTES	SHEETS NO. 5
EROSION AND SEDIMENT CONTROL DETAILS	SHEETS NO. 10 – 20
EROSION CONTROL TABULATION	SHEETS NO. 2 – 3
TURF ESTABLISHMENT TABULATION	SHEETS NO. 2 – 3
SITE MAP	SHEETS NO. 1

STORMWATER CALCULATIONS AND ADDITIONAL HYDRAULIC DESIGN INFORMATION ARE AVAILABLE FOR THIS PROJECT AND CAN BE PROVIDED UPON REQUEST.

SITE INSPECTION AND MAINTENANCE

INSPECT THE ENTIRE CONSTRUCTION SITE A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. INSPECT ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT, EROSION PREVENTION AND SEDIMENT CONTROL BMPS UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING DRAINAGE DITCHES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF SITE SEDIMENT ACCUMULATION. INSPECT INFILTRATION AREAS FOR SIGNS OF SEDIMENT DEPOSITION AND COMPACTION (TO ENSURE THAT EQUIPMENT IS NOT BEING DRIVEN ACROSS THE AREA).

RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN WRITING WITHIN 24 HOURS. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT ENGINEER. INCLUDE THE FOLLOWING IN THE RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY:

A. DATE AND TIME OF INSPECTIONS
B. NAME OF PERSONS CONDUCTING INSPECTIONS
C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS
D. CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES
E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS
F. DOCUMENTS AND CHANGES MADE TO THE SWPPP

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No.	Date	Revisions	App.

DRAWING NAME	
2026–MARKET–SWPPP.dwg	
DESIGNED BY:	ART
DRAWN BY:	KMA
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ADAM R. TJADEN
DATE: 2/20/2026 MN LIC. NO. 59337

CITY OF CHANHASSEN
MARKET BOULEVARD
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BMP GRADING PLAN AND DETAILS

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 33 / 169

SITE INSPECTION AND MAINTENANCE (CONTINUED)

REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED DIFFERENTLY BELOW:

A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
C. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENT BASINS ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME. COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY.
D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS. CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS.
E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
F. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

STABILIZATION TIME FRAMES

AREA	TIME FRAME	NOTES
LAST 200 LINEAL FEET OF DRAINAGE DITCH OR SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER OR PROPERTY EDGE	1, 2, 3
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	7 DAYS	1, 3
PIPE AND CULVERT OUTLETS	24 HOURS	
EXPOSED SOILS AND STOCKPILES	7 DAYS	1
WITHIN 200 FEET OF A PUBLIC WATER	24 HOURS	7

1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.

2. STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).

3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.

4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED, SEEDED, AND BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT.

5. TOPSOIL BERMS MUST BE STABILIZED IN ORDER TO BE CONSIDERED PERIMETER CONTROL BMPS. USE RAPID STABILIZATION METHOD 2, 3, OR 4 AS DIRECTED BY THE ENGINEER. THE SEED MIX USED IN THE RAPID STABILIZATION MAY BE SUBSTITUTED AS FOLLOWS:
   A. SINGLE YEAR CONSTRUCTION BETWEEN MAY 1 – AUGUST 1, SEED WITH OATS
   B. SINGLE YEAR CONSTRUCTION BETWEEN AUGUST 1 AND OCTOBER 1, SEED WITH WINTER WHEAT
   C. MULTI YEAR CONSTRUCTION SEED WITH TWO–YEAR COVER CROP

6. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES AND BLANKETS.

7. SEE WATER RESOURCES NOTES FOR A LIST OF PUBLIC WATER EXCLUSION DATES. TWENTY FOUR HOUR STABILIZATION REQUIREMENT ONLY APPLIES DURING THE EXCLUSION DATES.

GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

1. AMEND THE SWPPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.

2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR MNDOT TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.

3. IT IS THE DESIGNER'S INTENT THAT THE CONTRACTOR BUILD PONDS AND PLACE EROSION CONTROL BMPS BEFORE PUTTING THEM INTO ACTIVE SERVICE TO THE MAXIMUM EXTENT PRACTICABLE.

4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.

5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.

6. ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.

7. DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION.

8. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES COMMENCE.

9. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

10. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW– VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J–HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.

11. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES.

12. PROTECT STORM SEWER INLETS AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS. SILT FENCE PLACED IN THE GRATE IS ONLY ALLOWED FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS. INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES WILL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. KEEP ALL STORM SEWER INLET PROTECTION DEVICES IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. REPLACE INLET PROTECTION DEVICE WITH A SUITABLE ALTERNATIVE IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE, OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES. THERE WILL BE NO COST TO MNDOT FOR REPLACEMENT OF INLET PROTECTION DEVICES.

13. PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF TRACKING IS DISCOVERED. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND MAINTENANCE.

14. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS OR TEMPORARY SEDIMENT TRAPS TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.

15. PROVIDE SCOUR PROTECTION AT ANY OUTFALL OF DEWATERING ACTIVITIES.

16. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.

17. REMOVE SEDIMENT FROM STORMWATER SYSTEM AT THE END OF PROJECT.

POLLUTION PREVENTION

1. PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE.

2. STORE ALL BUILDING MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS, PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS UNDER COVER AND WITH SECONDARY CONTAINMENT.

3. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY.

4. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.

5. POSITION ALL PORTABLE TOILETS SO THAT THEY ARE SECURE AND CANNOT BE TIPPED OR KNOCKED OVER. PROPERLY DISPOSE OF ALL SANITARY WASTE.

6. FUEL AND MAINTAIN VEHICLES IN A DESIGNATED CONTAINED AREA WHENEVER FEASIBLE. USE DRIP PANS OR ABSORBENT MATERIALS TO PREVENT SPILLS OR LEAKED CHEMICALS FROM DISCHARGING TO SURFACE WATER OR STORMWATER CONVEYANCES. PROVIDE A SPILL KIT AT EACH LOCATION THAT VEHICLES AND EQUIPMENT ARE FUELED OR MAINTAINED AT.

7. LIMIT VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA OF THE SITE. CONTAIN RUNOFF FROM THE WASHING AREA TO A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL. PROPERLY DISPOSE OF ALL WASTE GENERATED BY VEHICLE AND EQUIPMENT WASHING. ENGINE DEGREASING IS NOT ALLOWED ON THE SITE.

No.	Date	Revisions	App.

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DRAWN BY: KMA
CHECKED BY: MAK
DATE: 2/20/2026
PROJECT NO. 25–02

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ADAM R. TJADEN
DATE: 2/20/2026 MN LIC. NO. 59337

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

BMP GRADING PLAN AND DETAILS

CITY PROJECT 25–02
S.A.P. 194–123–002

SHEET NO. 34
169

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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

8. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND. DESIGN THE CONTAINMENT SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA.

9. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER.

10. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.

11. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, CONCRETE WASH OUT, AND OTHER CONCRETE WASTES FROM LEAVING MNDOT RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS, AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT SAW CUT SLURRY AND PLANING WASTE FROM LEAVING MNDOT RIGHT OF WAY AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS INCLUDING DITCHES AND CULVERTS.

WATER RESOURCES NOTES

THESE NOTES ALONG WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE ARE INTENDED TO GIVE INFORMATION ON CRITICAL DRAINAGE FEATURES, NATURAL RESOURCES AND CONTRACTOR OPERATIONS THAT MAY IMPACT DRAINAGE AND NATURAL RESOURCES.

1. THE SIZE AND ELEVATION OF CULVERTS, STORM SEWER PIPES, CATCH BASINS, PONDS, INFILTRATION/FILTRATION BASINS, PERMEABLE DITCH BLOCKS AND OVERFLOW DEVICES HAVE BEEN SPECIFICALLY DESIGNED TO CONFORM TO MNDOT DESIGN STANDARDS, MINNESOTA POLLUTION CONTROL AGENCY (MPCA) AND WATERSHED DISTRICT PERMIT REQUIREMENTS. CHANGING THESE ITEMS OR THE DIRECTION OF FLOW FROM WHAT IS SHOWN ON THE PLANS MAY CAUSE PROBLEMS OFF THE PROJECT AND COULD MEAN THE PROJECT IS OUT OF COMPLIANCE WITH APPROVED DRAINAGE PERMITS. ANY CHANGES TO THE SIZE, ELEVATION OR DIRECTION OF FLOW OF THE DRAINAGE SYSTEM MUST BE APPROVED BY THE ENGINEER.\

2. SUBSOIL ALL DISTRUBED GREEN SPACES EXCEPT AS LISTED IN 2574.3A.5.

3. PERFORM POST INSTALLATION MANDREL TESTING OF ALL PLASTIC PIPE.

4. ANY SUBSURFACE DRAINAGE TILES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR REROUTED, AND CONNECTED TO THE EXISTING TILE OR DRAINAGE SYSTEM TO ENSURE THAT EXISTING UPLAND DRAINAGE IS PERPETUATED. THIS SHOULD BE DONE TO THE APPROVAL AND SATISFACTION OF THE ENGINEER.

5. THE FOLLOW WATER RELATED PERMITS APPLY TO THIS PROJECT:

AGENCY	TYPE OF PERMIT
MINNESOTA POLLUTION CONTROL AGENCY (MPCA)	NPDES CONSTRUCTION PERMIT
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT	LAND DISTURBANCE PERMIT

REVIEW ALL PERMITS FOR ANY SPECIAL CONDITIONS THAT WILL EFFECT CONSTRUCTION OF THE PROJECT.

TEMPORARY DEWATERING ACTIVITIES MAY BE REQUIRED FOR SIDEWALK CONSTRUCTION AND UTILITY WORK. THEREFORE IT IS POSSIBLE THAT A PERMIT FOR THE TEMPORARY APPROPRIATION OF WATERS OF THE STATE, NON-IRRIGATION FROM MNDNR WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THIS PERMIT PRIOR TO COMMENCING DEWATERING ACTIVITIES. ALL TEMPORARY DEWATERING SHALL BE DISCHARGED TO AN APPROVED LOCATION FOR TREATMENT PRIOR TO DISCHARGE TO THE RECEIVING WATER. SUBMIT A SITE MANAGEMENT PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

6. THE FOLLOWING TYPES OF WATERS HAVE WORK IN WATER EXCLUSIONS. NO WORK IN THE WATER IS ALLOWED DURING THE EXCLUSION DATES. SEE DNR PERMIT FOR WHICH WATERBODIES THIS APPLIES TO.

WATERBODY	EXCLUSION DATES
LAKES	APRIL 1 – JUNE 30
NON-TROUT STREAMS	MARCH 15 – JUNE 15
TROUT STREAMS	SEPTEMBER 1 – APRIL 1

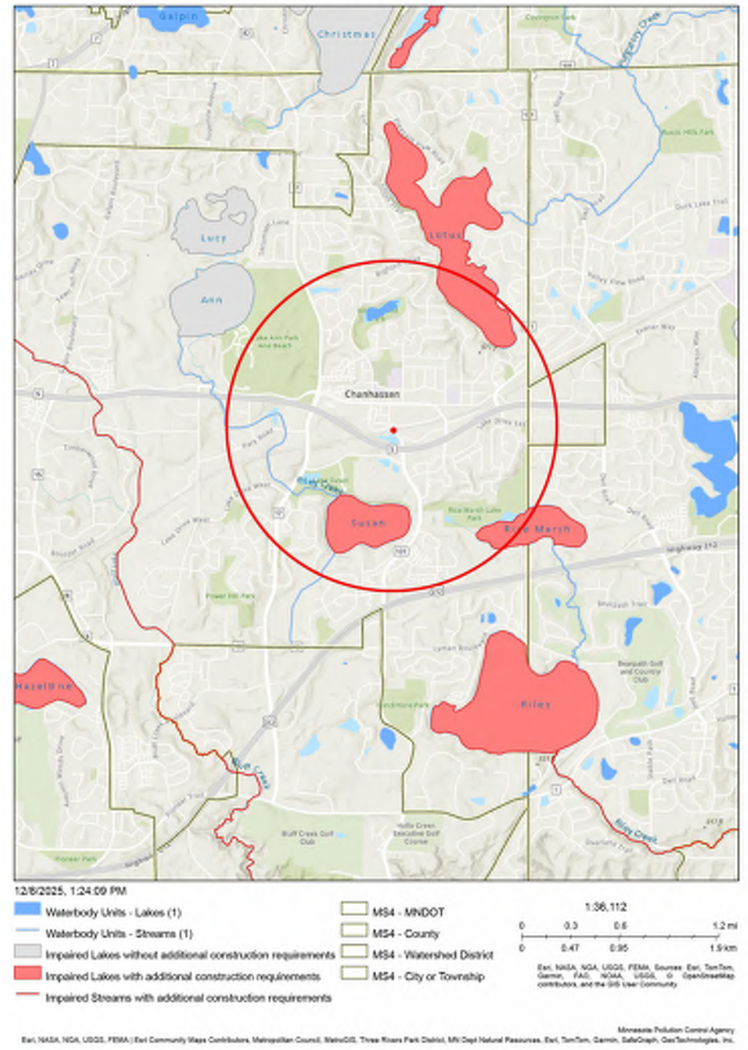
LANDSCAPE NOTES

1. FILTER LOGS SHALL BE PLACED, AS NEEDED, TO TRAP SEDIMENT ON THE LOWER EDGE OF BEDS OR TREE HOLES. FILTER LOGS WILL BE LEFT TO PHOTO DEGRADE.

2. TILLING FOR BEDS OR TREE HOLES MUST BE PLANTED AND MULCHED WITH WOOD CHIP WITHIN 7 DAYS OR STRAW MULCHED UNTIL PLANTING OPERATIONS CAN BE COMPLETED.

3. ANY POND CORNERS OPENED DUE TO TILLING FOR SHRUB BEDS OR TREE HOLES MUST BE PLANTED AND MULCHED WITH WOOD CHIP WITHIN 24 HOURS OR STRAW MULCHED UNTIL PLANTING OPERATIONS CAN BE COMPLETED.

IMPAIRED WATERS MAP



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PROJECT NO.	25-02

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ADAM R. TJADEN
DATE: 2/20/2026 MN LIC. NO. 59337

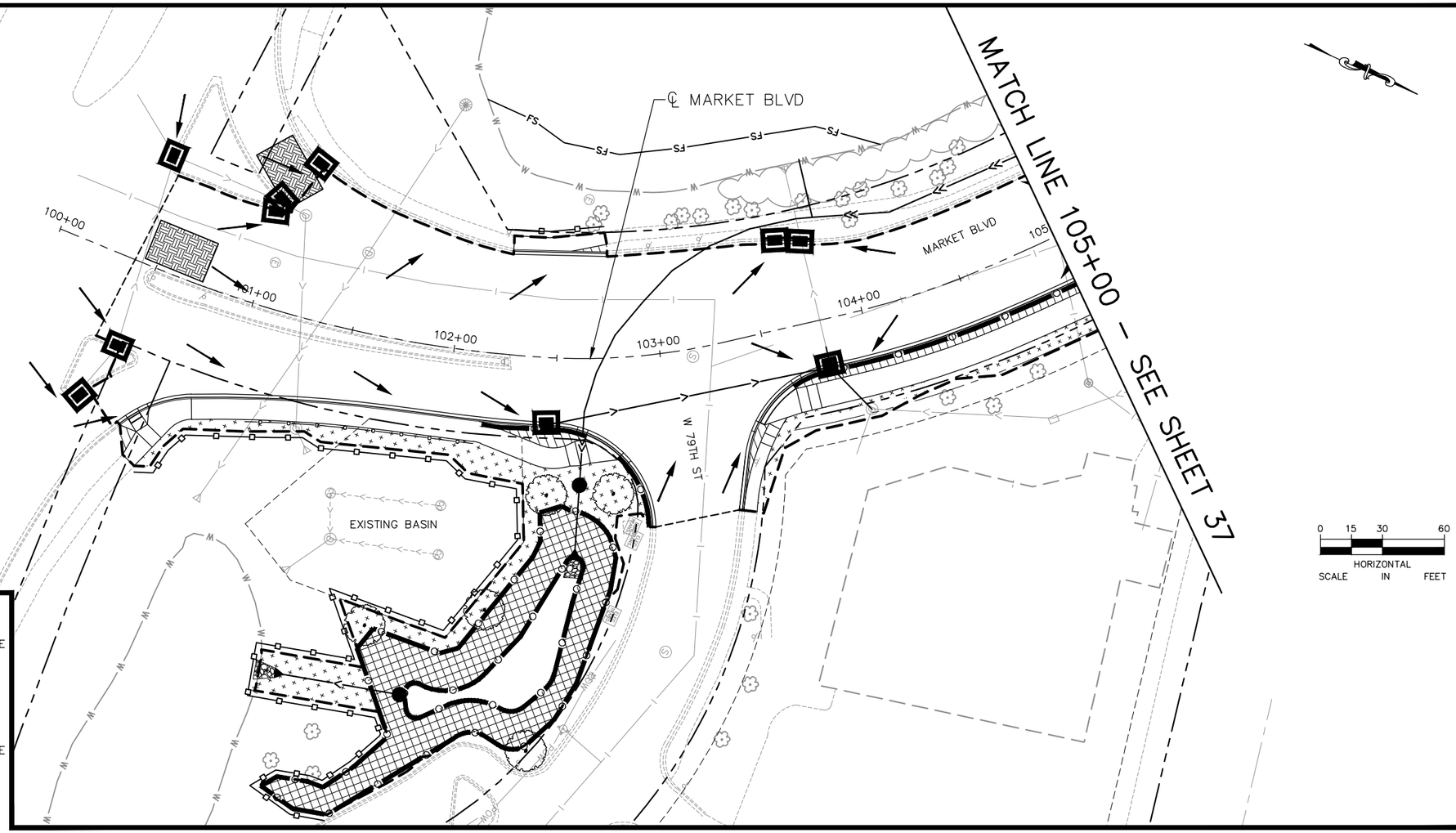
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

BMP GRADING PLAN AND DETAILS

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 35 / 169

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LEGEND:

- SEED MIXTURE SPECIAL @ 400 LBS/ACRE
  FERTILIZER – MNDOT TYPE 4 – 18–1–18 @ 120 LBS/ACRE
  ROLLED EROSION PREVENTION CATEGORY 20
- SODDING TYPE LAWN
  FERTILIZER TYPE 3 @ 200 LBS/ACRE
  WEED SPRAYING (WEED SPRAYING MIXTURE)
- SEED MIX – MNDOT SEED WET DITCH @ 20 LBS/ACRE
  FERTILIZER – MNDOT TYPE 4 – 18–1–18 @ 120 LBS/ACRE
  ROLLED EROSION PREVENTION CATEGORY 20
- STABILIZED CONSTRUCTION EXIT
- RIPRAP TO BE PLACED WITHIN 24 OF STORM SEWER CONSTRUCTION – SEE DRAINAGE TABULATIONS
- SILT FENCE, TYPE MS
- FS — FLOTATION SILT CURTAIN TYPE STILL WATER
- SEDIMENT CONTROL LOG TYPE WOOD FIBER
- STORM DRAIN INLET PROTECTION
- CULVERT END CONTROLS
- FLOW DIRECTION ARROW
- DITCH FLOW DIRECTION ARROW
- PROPOSED STORM STRUCTURES
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY

NOTES:

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL FENCE AND SEDIMENT CONTROL LOG AS SHOWN AND AS DIRECTED BY THE ENGINEER IN FIELD. EROSION FENCE AND SEDIMENT CONTROL LOG TO BE REMOVED BY CONTRACTOR AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.
2. INLET PROTECTION WILL BE PROVIDED AT ALL CATCH BASINS WITHIN THE PROJECT AREA.
3. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ROCK ENTRANCES AT POINTS OF EXIT FROM PAVEMENT AS DIRECTED BY ENGINEER.
4. ALL STREETS IN AND ADJACENT TO THE PROJECT SHALL REMAIN CLEAN AND PASSABLE AT ALL TIMES. ALL SEDIMENT AND DEBRIS SHALL BE REMOVED WITHIN 24 HOURS, OR AS DIRECTED BY THE ENGINEER TO ENSURE PUBLIC SAFETY. PAID AS STREET SWEEPER (WITH PICKUP BROOM) AS DIRECTED BY THE FIELD ENGINEER.
5. ALL FLARED END SECTION SHALL BE INSTALLED WITH EROSION CONTROL MEASURES IN ACCORDANCE THE MNDOT STANDARD PLATE 3133D.
6. SEDIMENT CONTROL LOG SHALL BE INSTALLED BEHIND BACK OF CURB ALONG ALL PROPOSED CURB & GUTTER WITH SOIL BEHIND CURB
7. SEE SHEET 151 FOR TREE PLANTING PLANS
8. PROTECT ALL EXISTING BASINS. CONTRACTOR SHALL AVOID RUNNING ANY EQUIPMENT OR STORING ANY MATERIALS OVER EXISTING BASINS.

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DRAWN BY:	RCH
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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

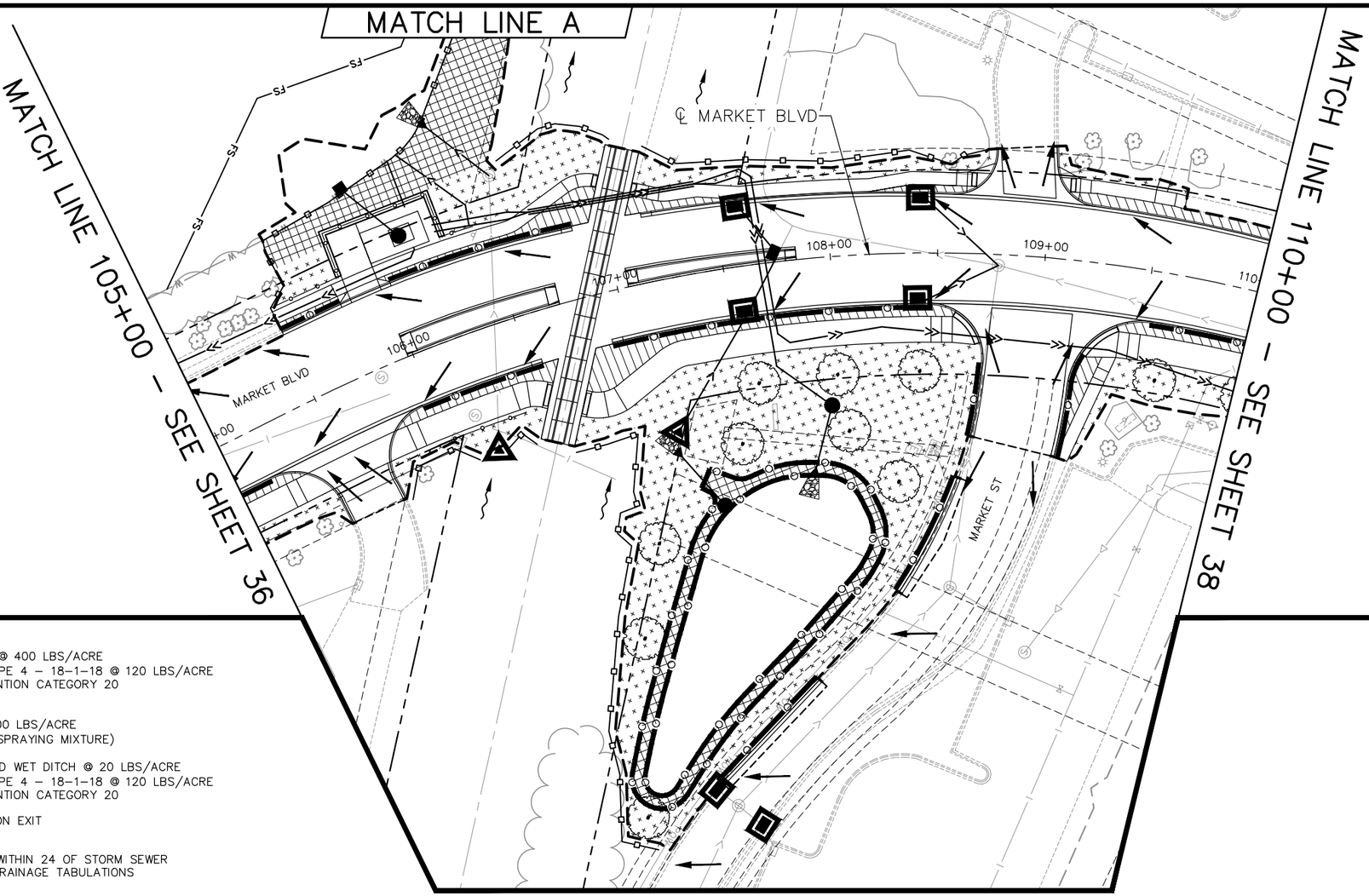
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

TEMPORARY EROSION CONTROL AND TURF ESTABLISHMENT PLANS
STA. 100+00 TO STA. 105+00

CITY PROJECT	25–02
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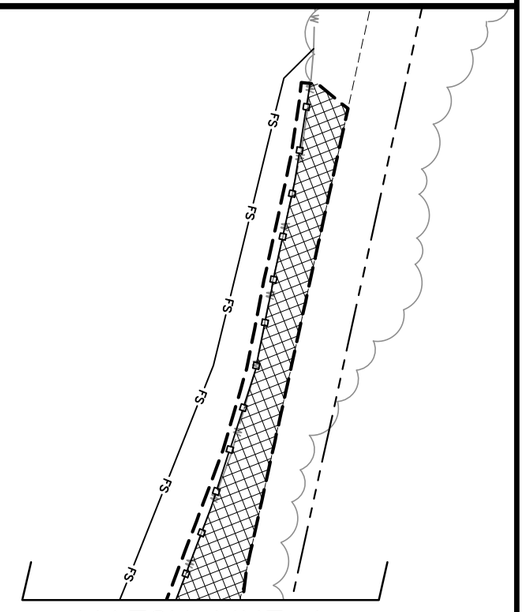
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HORIZONTAL SCALE IN FEET

LEGEND:

- SEED MIXTURE SPECIAL @ 400 LBS/ACRE
  FERTILIZER – MNDOT TYPE 4 – 18–1–18 @ 120 LBS/ACRE
  ROLLED EROSION PREVENTION CATEGORY 20
- SODDING TYPE LAWN
  FERTILIZER TYPE 3 @ 200 LBS/ACRE
  WEED SPRAYING (WEED SPRAYING MIXTURE)
- SEED MIX – MNDOT SEED WET DITCH @ 20 LBS/ACRE
  FERTILIZER – MNDOT TYPE 4 – 18–1–18 @ 120 LBS/ACRE
  ROLLED EROSION PREVENTION CATEGORY 20
- STABILIZED CONSTRUCTION EXIT
- RIPRAP TO BE PLACED WITHIN 24 OF STORM SEWER CONSTRUCTION – SEE DRAINAGE TABULATIONS
- SILT FENCE, TYPE MS
- FS — FLOTATION SILT CURTAIN TYPE STILL WATER
- SEDIMENT CONTROL LOG TYPE WOOD FIBER
- STORM DRAIN INLET PROTECTION
- CULVERT END CONTROLS
- FLOW DIRECTION ARROW
- DITCH FLOW DIRECTION ARROW
- PROPOSED STORM STRUCTURES
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY

NOTES:

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL FENCE AND SEDIMENT CONTROL LOG AS SHOWN AND AS DIRECTED BY THE ENGINEER IN FIELD. EROSION FENCE AND SEDIMENT CONTROL LOG TO BE REMOVED BY CONTRACTOR AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.
2. INLET PROTECTION WILL BE PROVIDED AT ALL CATCH BASINS WITHIN THE PROJECT AREA.
3. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ROCK ENTRANCES AT POINTS OF EXIT FROM PAVEMENT AS DIRECTED BY ENGINEER.
4. ALL STREETS IN AND ADJACENT TO THE PROJECT SHALL REMAIN CLEAN AND PASSABLE AT ALL TIMES. ALL SEDIMENT AND DEBRIS SHALL BE REMOVED WITHIN 24 HOURS, OR AS DIRECTED BY THE ENGINEER TO ENSURE PUBLIC SAFETY. PAID AS STREET SWEEPER (WITH PICKUP BROOM) AS DIRECTED BY THE FIELD ENGINEER.
5. ALL FLARED END SECTION SHALL BE INSTALLED WITH EROSION CONTROL MEASURES IN ACCORDANCE THE MNDOT STANDARD PLATE 3133D.
6. SEDIMENT CONTROL LOG SHALL BE INSTALLED BEHIND BACK OF CURB ALONG ALL PROPOSED CURB & GUTTER WITH SOIL BEHIND CURB
7. SEE SHEET 151 FOR TREE PLANTING PLANS
8. PROTECT ALL EXISTING BASINS. CONTRACTOR SHALL AVOID RUNNING ANY EQUIPMENT OR STORING ANY MATERIALS OVER EXISTING BASINS.



No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–EROS.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
WWW.KIMLEY–HORN.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

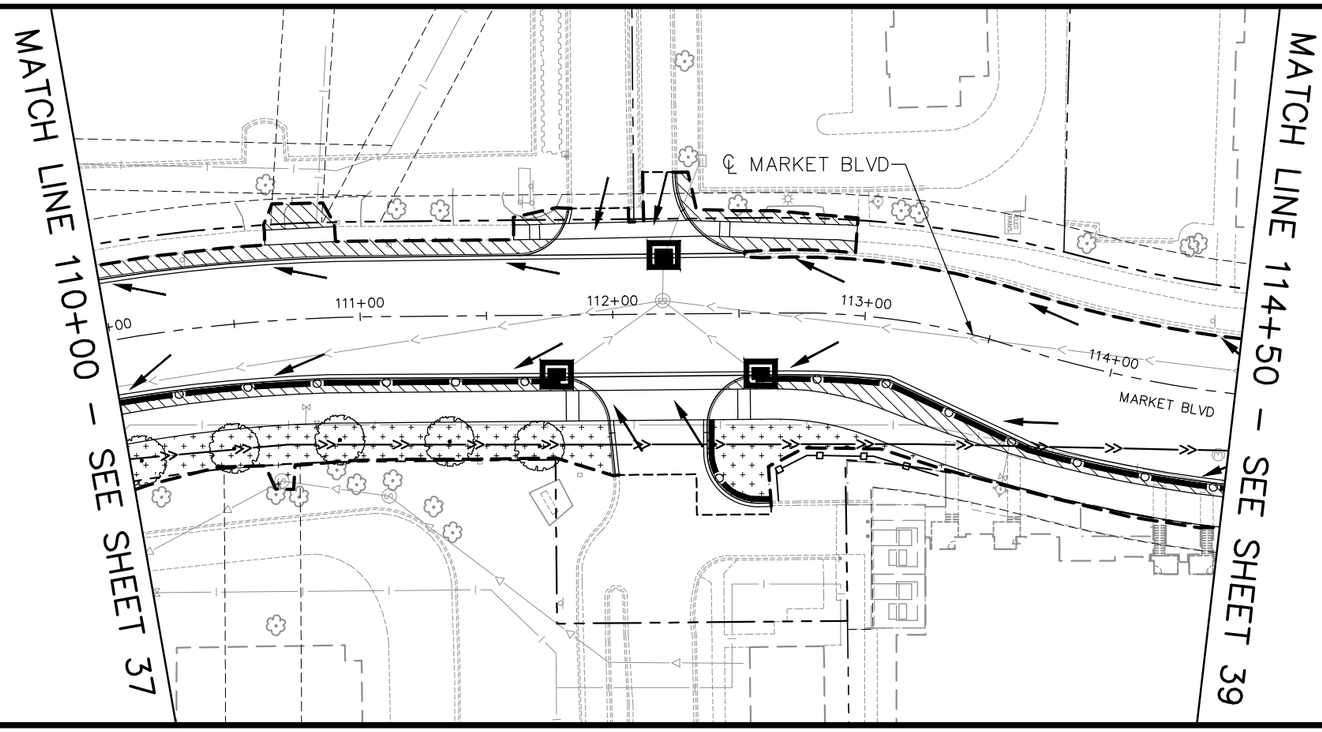
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

TEMPORARY EROSION CONTROL AND TURF ESTABLISHMENT PLANS
STA. 105+00 TO STA. 110+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 37 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\2026–MARKET–EROS.dwg February 20, 2026 – 2:48pm



0 15 30 60
HORIZONTAL SCALE IN FEET

LEGEND:

- SEED MIXTURE SPECIAL @ 400 LBS/ACRE
  FERTILIZER – MNDOT TYPE 4 – 18–1–18 @ 120 LBS/ACR
  ROLLED EROSION PREVENTION CATEGORY 20
- SODDING TYPE LAWN
  FERTILIZER TYPE 3 @ 200 LBS/ACRE
  WEED SPRAYING (WEED SPRAYING MIXTURE)
- SEED MIX – MNDOT SEED WET DITCH @ 20 LBS/ACRE
  FERTILIZER – MNDOT TYPE 4 – 18–1–18 @ 120 LBS/ACR
  ROLLED EROSION PREVENTION CATEGORY 20
- STABILIZED CONSTRUCTION EXIT
- RIPRAP TO BE PLACED WITHIN 24 OF STORM SEWER CONSTRUCTION – SEE DRAINAGE TABULATIONS
- SILT FENCE, TYPE MS
- FS — FLOTATION SILT CURTAIN TYPE STILL WATER
- SEDIMENT CONTROL LOG TYPE WOOD FIBER
- STORM DRAIN INLET PROTECTION
- CULVERT END CONTROLS
- FLOW DIRECTION ARROW
- DITCH FLOW DIRECTION ARROW
- PROPOSED STORM STRUCTURES
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY

NOTES:

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3. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ROCK ENTRANCES AT POINTS OF EXIT FROM PAVEMENT AS DIRECTED BY ENGINEER.
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7. SEE SHEET 151 FOR TREE PLANTING PLANS
8. PROTECT ALL EXISTING BASINS. CONTRACTOR SHALL AVOID RUNNING ANY EQUIPMENT OR STORING ANY MATERIALS OVER EXISTING BASINS.

No.	Date	Revisions	App.

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DESIGNED BY:	MAK
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CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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DATE: 2/20/2026 MN LIC. NO. 59057

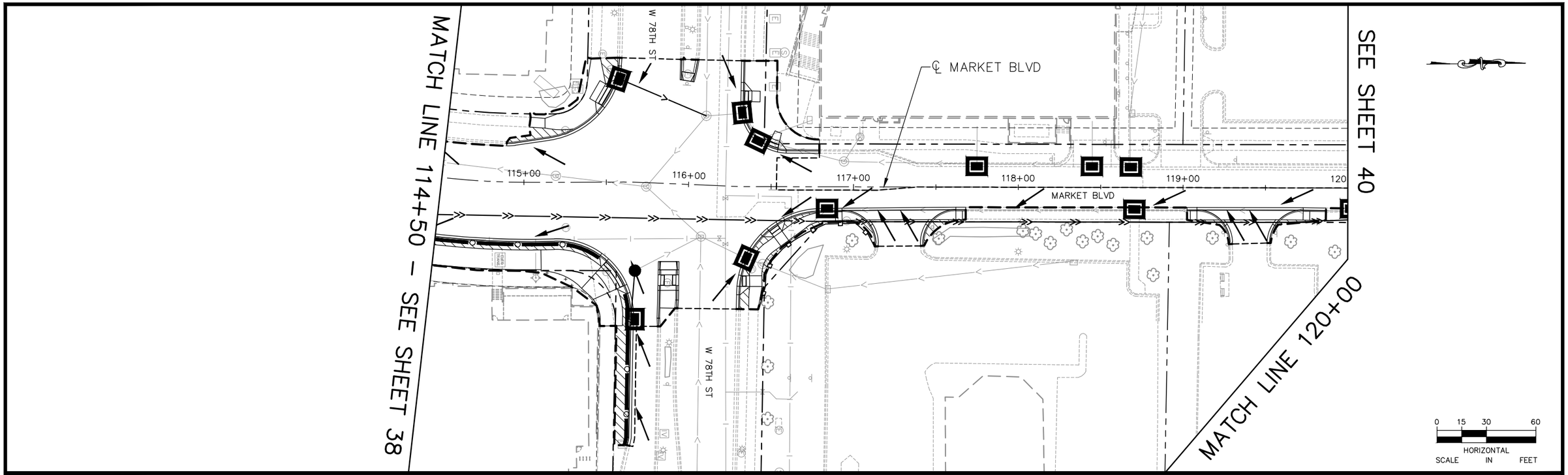
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

TEMPORARY EROSION CONTROL AND TURF ESTABLISHMENT PLANS
STA. 110+00 TO STA. 114+50

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 38 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\2026–MARKET–EROS.dwg February 20, 2026 – 2:48pm



LEGEND:

- SEED MIXTURE SPECIAL @ 400 LBS/ACRE
  FERTILIZER – MNDOT TYPE 4 – 18–1–18 @ 120 LBS/ACRE
  ROLLED EROSION PREVENTION CATEGORY 20
- SODDING TYPE LAWN
  FERTILIZER TYPE 3 @ 200 LBS/ACRE
  WEED SPRAYING (WEED SPRAYING MIXTURE)
- SEED MIX – MNDOT SEED WET DITCH @ 20 LBS/ACRE
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- DITCH FLOW DIRECTION ARROW
- PROPOSED STORM STRUCTURES
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY

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No.	Date	Revisions	App.

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DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
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DATE: 2/20/2026 MN LIC. NO. 59057

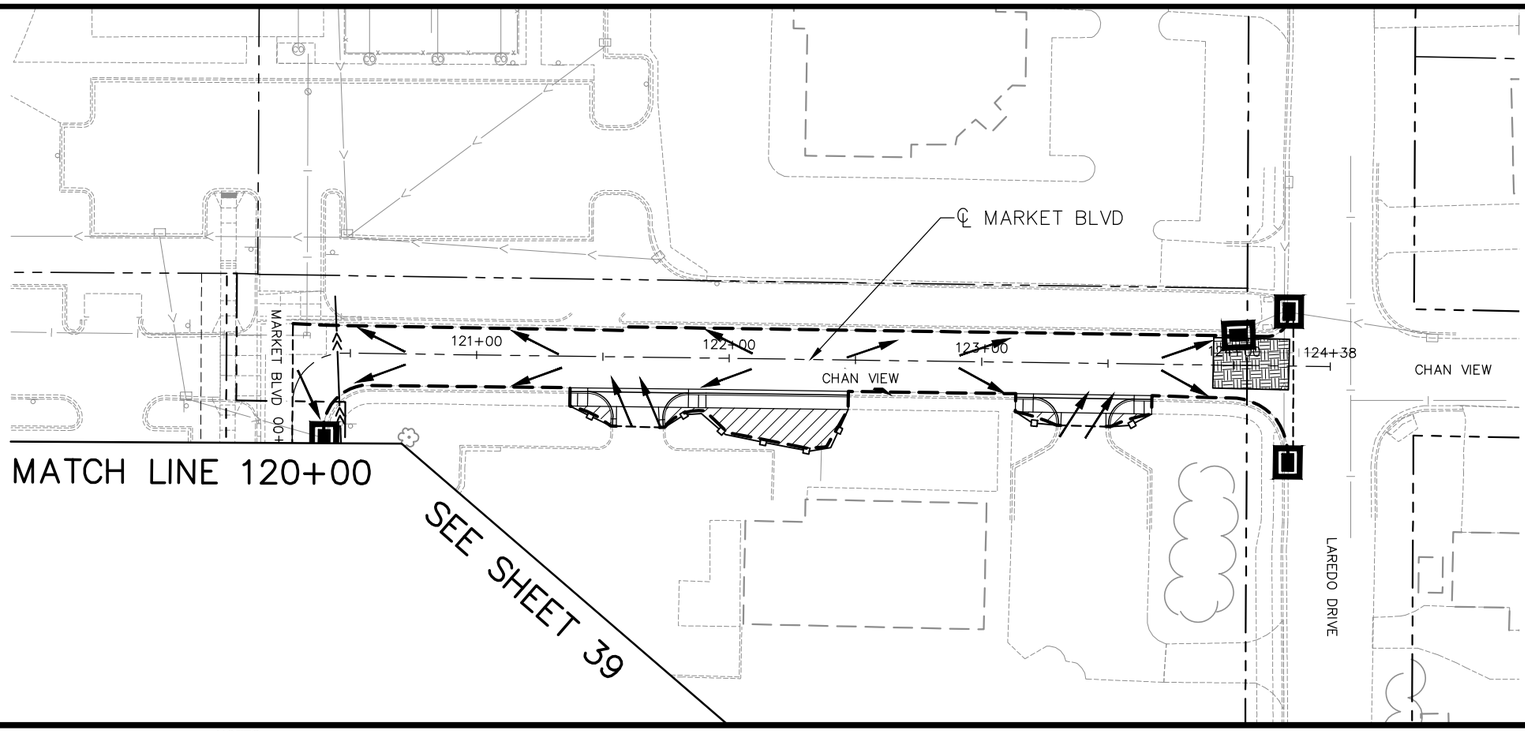
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

TEMPORARY EROSION CONTROL AND TURF ESTABLISHMENT PLANS
STA. 114+50 TO STA. 120+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 39 / 169

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0 15 30 60
HORIZONTAL SCALE IN FEET

LEGEND:

- SEED MIXTURE SPECIAL @ 400 LBS/ACRE
  FERTILIZER – MNDOT TYPE 4 – 18–1–18 @ 120 LBS/ACRE
  ROLLED EROSION PREVENTION CATEGORY 20
- SODDING TYPE LAWN
  FERTILIZER TYPE 3 @ 200 LBS/ACRE
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- PROPOSED STORM STRUCTURES
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY

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7. SEE SHEET 151 FOR TREE PLANTING PLANS
8. PROTECT ALL EXISTING BASINS. CONTRACTOR SHALL AVOID RUNNING ANY EQUIPMENT OR STORING ANY MATERIALS OVER EXISTING BASINS.

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–EROS.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

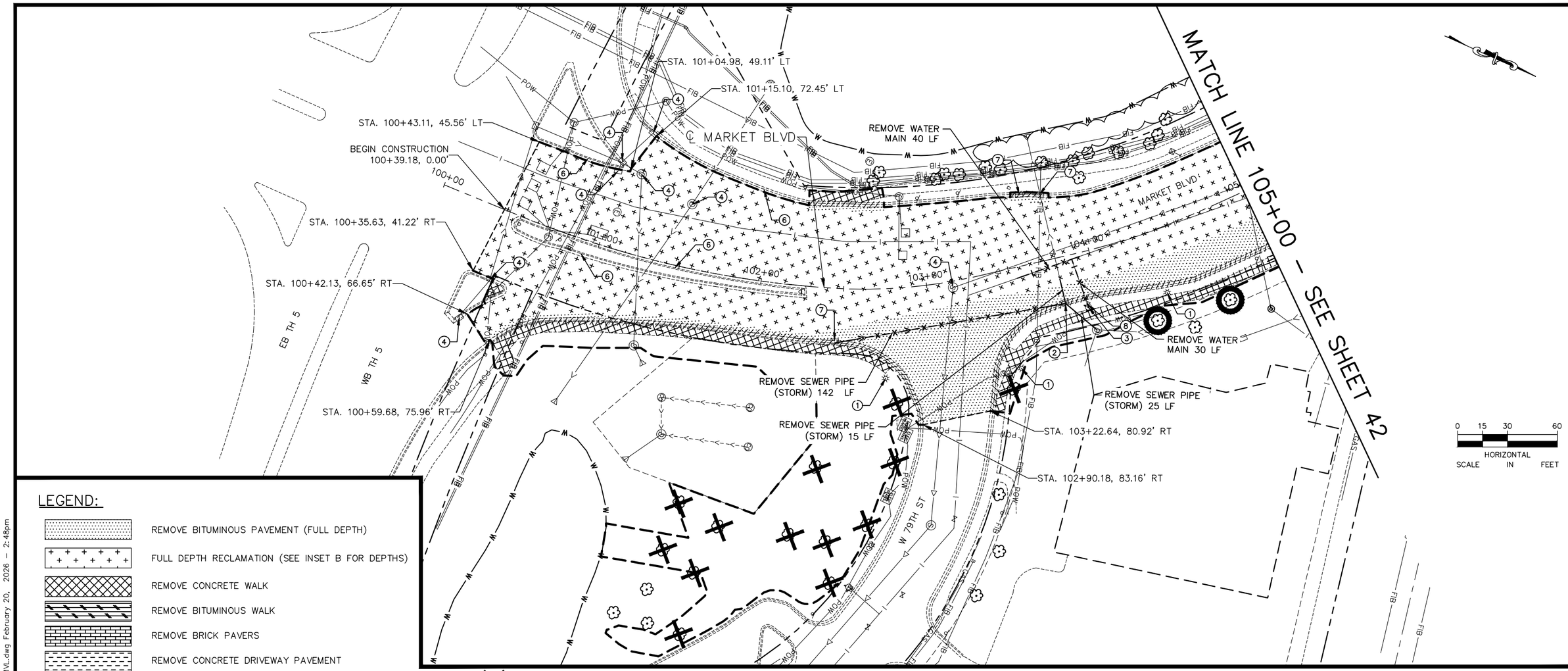
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

TEMPORARY EROSION CONTROL AND TURF ESTABLISHMENT PLANS
STA. 120+00 TO STA. 124+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 40 / 169

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0 15 30 60
HORIZONTAL SCALE IN FEET

LEGEND:

- REMOVE BITUMINOUS PAVEMENT (FULL DEPTH)
- FULL DEPTH RECLAMATION (SEE INSET B FOR DEPTHS)
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS WALK
- REMOVE BRICK PAVERS
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- REMOVE CURB & GUTTER
- REMOVE SEWER PIPE (STORM)
- REMOVE SEWER PIPE (SANITARY)
- REMOVE WATER MAIN
- ABANDON WATER MAIN
- CLEARING & GRUBBING (EACH)
- CLEARING & GRUBBING (ACRE)
- PROTECT TREE (INCIDENTAL)
- CONSTRUCTION LIMITS
- EXISTING WATER LINE

SPECIFIC NOTES:

1. REMOVE LIGHTING UNIT
   REMOVE LIGHT FOUNDATION
2. REMOVE DRAINAGE STRUCTURE
3. SALVAGE HYDRANT
4. PROTECT DRAINAGE STRUCTURE AND PIPE (INCIDENTAL)
5. RAIL ROAD SIGNAL SYSTEM, ARMS AND CABINET TO BE REMOVED (BY OTHERS)
6. PROTECT CURB & GUTTER (INCIDENTAL)
7. REMOVE CASTING
8. REMOVE GATE VALVE AND BOX
9. REMOVE PIPE APRON
10. REMOVE CURB STOP AND BOX
11. REMOVE HYDRANT

NOTES:

1. STRIP, STOCKPILE AND REUSE INPLACE TOPSOIL IN AREAS TO BE DISTURBED BY CONSTRUCTION.
2. CONTRACTOR SHALL CALL GOPHER STATE ONE CALL AT 651-454-0002. ALL UTILITIES MUST BE LOCATED PRIOR TO THE START OF CONSTRUCTION.
3. SEE UTILITY PLANS AND DRAINAGE PLANS FOR UTILITY ADJUSTMENTS AND REPLACEMENTS.
4. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY STRUCTURES THAT ARE NOT BEING REMOVED OR RELOCATED.
5. TRENCH BOXES OR OTHER TRENCH STABILIZATION METHODS MAY BE REQUIRED DURING CONSTRUCTION TO MINIMIZE REMOVAL LIMITS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, SUPPORTING IRRIGATION AND SHALL TAKE ALL REASONABLE EFFORTS TO PROTECT IRRIGATION SYSTEMS WITHIN THE PROJECT AREA.
7. SALVAGED HYDRANTS SHALL BE DELIVERED TO THE CITY OF CHANHASSEN PUBLIC WORKS DEPARTMENT (INCIDENTAL TO "SALVAGE HYDRANT").
8. CONTRACTOR MAY RECLAIM AREAS WITH FULL DEPTH RECONSTRUCTION.
9. SEE STORM SEWER PLANS FOR REPLACEMENT OF MANHOLE CASTING RINGS, REMOVAL OF EXISTING RINGS IS INCIDENTAL TO 2506.602 REPLACE CASTING RINGS.

No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-RMVL.dwg	
DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

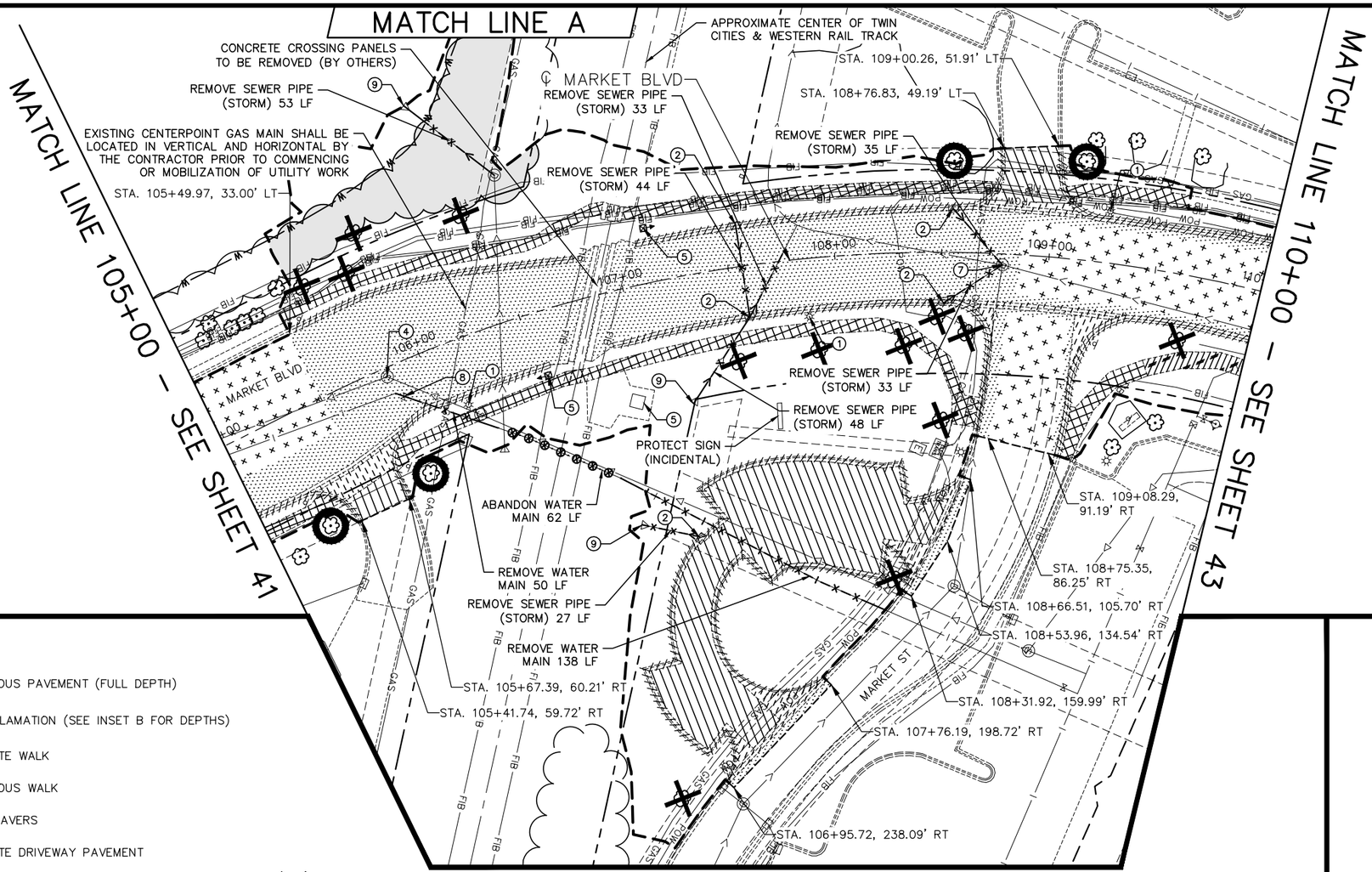
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

EXISTING CONDITIONS, EXISTING UTILITIES AND REMOVAL PLANS
STA. 100+00 TO STA. 105+00

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 41 / 169

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LEGEND:

- REMOVE BITUMINOUS PAVEMENT (FULL DEPTH)
- FULL DEPTH RECLAMATION (SEE INSET B FOR DEPTHS)
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS WALK
- REMOVE BRICK PAVERS
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- REMOVE CURB & GUTTER
- REMOVE SEWER PIPE (STORM)
- REMOVE SEWER PIPE (SANITARY)
- REMOVE WATER MAIN
- ABANDON WATER MAIN

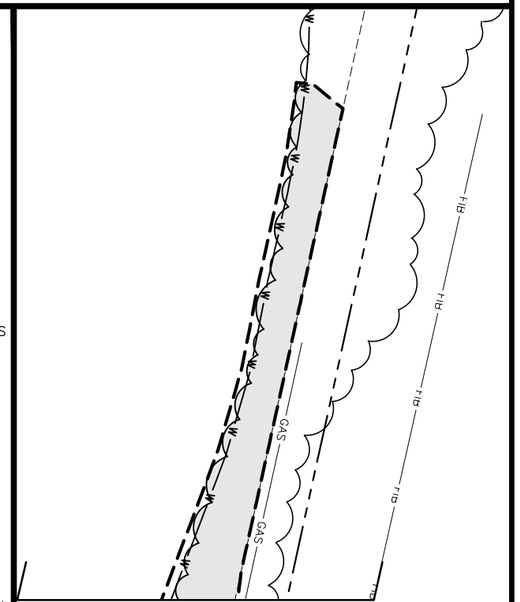
- CLEARING & GRUBBING (EACH)
- CLEARING & GRUBBING (ACRE)
- PROTECT TREE (INCIDENTAL)
- CONSTRUCTION LIMITS
- EXISTING WATER LINE

SPECIFIC NOTES:

1. REMOVE LIGHTING UNIT
   REMOVE LIGHT FOUNDATION
2. REMOVE DRAINAGE STRUCTURE
3. SALVAGE HYDRANT
4. PROTECT DRAINAGE STRUCTURE AND PIPE (INCIDENTAL)
5. RAIL ROAD SIGNAL SYSTEM, ARMS AND CABINET TO BE REMOVED (BY OTHERS)
6. PROTECT CURB & GUTTER (INCIDENTAL)
7. REMOVE CASTING
8. REMOVE GATE VALVE AND BOX
9. REMOVE PIPE APRON
10. REMOVE CURB STOP AND BOX
11. REMOVE HYDRANT

NOTES:

1. STRIP, STOCKPILE AND REUSE INPLACE TOPSOIL IN AREAS TO BE DISTURBED BY CONSTRUCTION.
2. CONTRACTOR SHALL CALL GOPHER STATE ONE CALL AT 651-454-0002. ALL UTILITIES MUST BE LOCATED PRIOR TO THE START OF CONSTRUCTION.
3. SEE UTILITY PLANS AND DRAINAGE PLANS FOR UTILITY ADJUSTMENTS AND REPLACEMENTS.
4. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY STRUCTURES THAT ARE NOT BEING REMOVED OR RELOCATED.
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No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-RMVL.dwg	
DESIGNED BY:	MAK
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PROJECT NO.	25-02

Kimley»Horn
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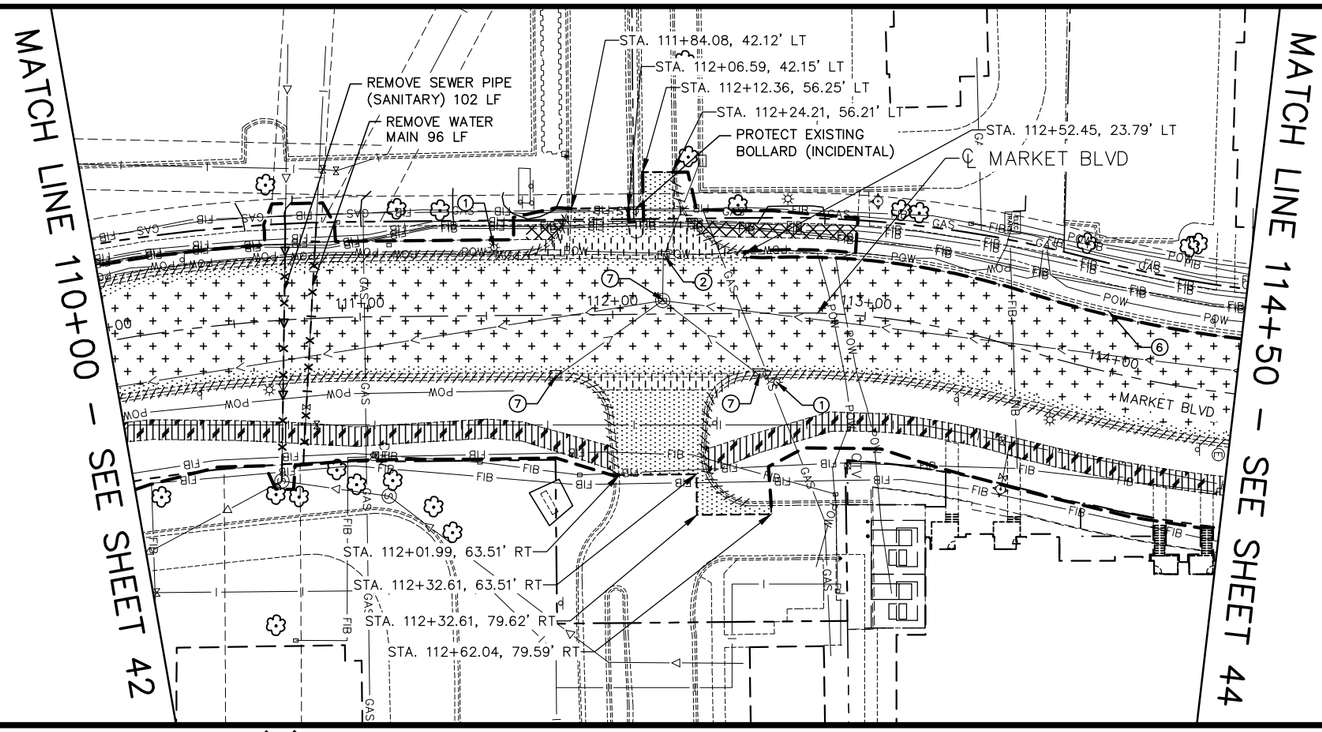
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

EXISTING CONDITIONS, EXISTING UTILITIES AND REMOVAL PLANS
STA. 105+00 TO STA. 110+00

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 42 / 169

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0 15 30 60
HORIZONTAL SCALE IN FEET

LEGEND:

- REMOVE BITUMINOUS PAVEMENT (FULL DEPTH)
- FULL DEPTH RECLAMATION (SEE INSET B FOR DEPTHS)
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS WALK
- REMOVE BRICK PAVERS
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- REMOVE CURB & GUTTER
- REMOVE SEWER PIPE (STORM)
- REMOVE SEWER PIPE (SANITARY)
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- ABANDON WATER MAIN
- CLEARING & GRUBBING (EACH)
- CLEARING & GRUBBING (ACRE)
- PROTECT TREE (INCIDENTAL)
- CONSTRUCTION LIMITS
- W EXISTING WATER LINE

SPECIFIC NOTES:

① REMOVE LIGHTING UNIT
REMOVE LIGHT FOUNDATION
② REMOVE DRAINAGE STRUCTURE
③ SALVAGE HYDRANT
④ PROTECT DRAINAGE STRUCTURE AND PIPE (INCIDENTAL)
⑤ RAIL ROAD SIGNAL SYSTEM, ARMS AND CABINET TO BE REMOVED (BY OTHERS)
⑥ PROTECT CURB & GUTTER (INCIDENTAL)
⑦ REMOVE CASTING
⑧ REMOVE GATE VALVE AND BOX
⑨ REMOVE PIPE APRON
⑩ REMOVE CURB STOP AND BOX
⑪ REMOVE HYDRANT

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3. SEE UTILITY PLANS AND DRAINAGE PLANS FOR UTILITY ADJUSTMENTS AND REPLACEMENTS.
4. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY STRUCTURES THAT ARE NOT BEING REMOVED OR RELOCATED.
5. TRENCH BOXES OR OTHER TRENCH STABILIZATION METHODS MAY BE REQUIRED DURING CONSTRUCTION TO MINIMIZE REMOVAL LIMITS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, SUPPORTING IRRIGATION AND SHALL TAKE ALL REASONABLE EFFORTS TO PROTECT IRRIGATION SYSTEMS WITHIN THE PROJECT AREA.
7. SALVAGED HYDRANTS SHALL BE DELIVERED TO THE CITY OF CHANHASSEN PUBLIC WORKS DEPARTMENT (INCIDENTAL TO "SALVAGE HYDRANT").
8. CONTRACTOR MAY RECLAIM AREAS WITH FULL DEPTH RECONSTRUCTION.
9. SEE STORM SEWER PLANS FOR REPLACEMENT OF MANHOLE CASTING RINGS, REMOVAL OF EXISTING RINGS IS INCIDENTAL TO 2506.602 REPLACE CASTING RINGS.

No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-RMVL.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

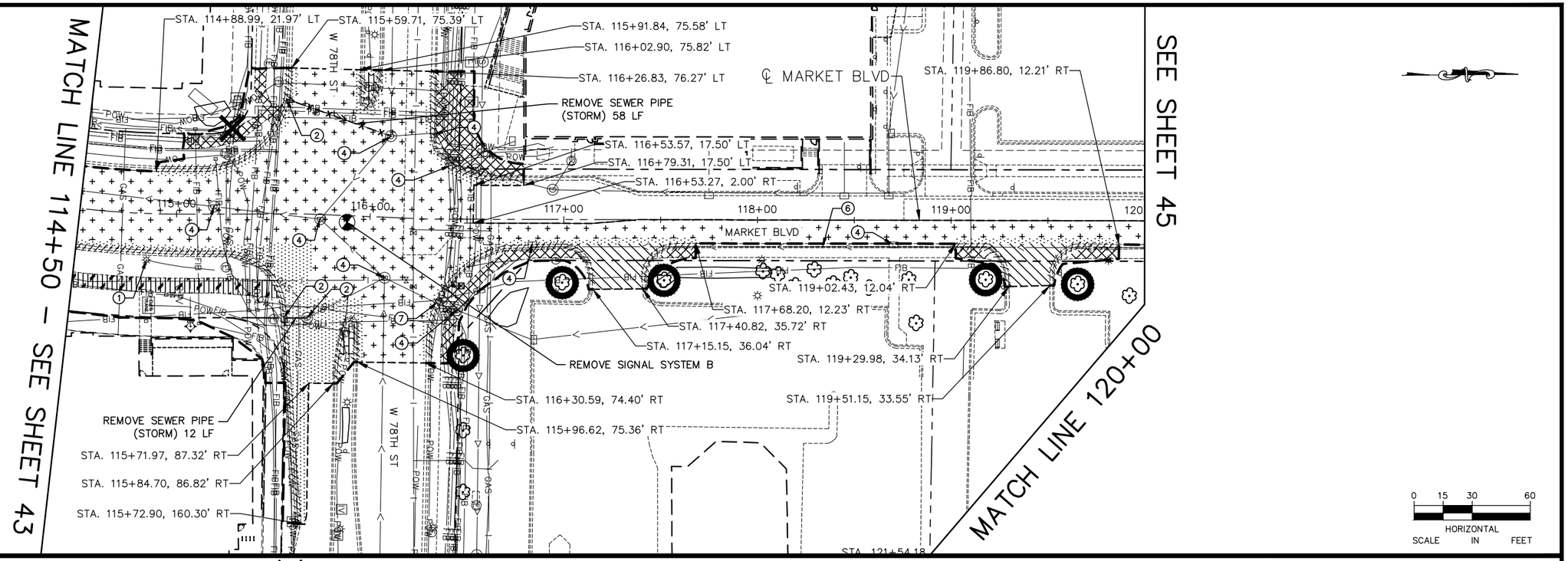
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

EXISTING CONDITIONS, EXISTING UTILITIES AND REMOVAL PLANS
STA. 110+00 TO STA. 114+50

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 43 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\2026-MARKET-RMVL.dwg February 20, 2026 - 2:48pm



LEGEND:

- REMOVE BITUMINOUS PAVEMENT (FULL DEPTH)
- FULL DEPTH RECLAMATION (SEE INSET B FOR DEPTHS)
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS WALK
- REMOVE BRICK PAVERS
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- REMOVE CURB & GUTTER
- REMOVE SEWER PIPE (STORM)
- REMOVE SEWER PIPE (SANITARY)
- REMOVE WATER MAIN
- ABANDON WATER MAIN
- CLEARING & GRUBBING (EACH)
- CLEARING & GRUBBING (ACRE)
- PROTECT TREE (INCIDENTAL)
- CONSTRUCTION LIMITS
- W — EXISTING WATER LINE

SPECIFIC NOTES:

1. REMOVE LIGHTING UNIT
   REMOVE LIGHT FOUNDATION
2. REMOVE DRAINAGE STRUCTURE
3. SALVAGE HYDRANT
4. PROTECT DRAINAGE STRUCTURE AND PIPE (INCIDENTAL)
5. RAIL ROAD SIGNAL SYSTEM, ARMS AND CABINET TO BE REMOVED (BY OTHERS)
6. PROTECT CURB & GUTTER (INCIDENTAL)
7. REMOVE CASTING
8. REMOVE GATE VALVE AND BOX
9. REMOVE PIPE APRON
10. REMOVE CURB STOP AND BOX
11. REMOVE HYDRANT

NOTES:

1. STRIP, STOCKPILE AND REUSE INPLACE TOPSOIL IN AREAS TO BE DISTURBED BY CONSTRUCTION.
2. CONTRACTOR SHALL CALL GOPHER STATE ONE CALL AT 651–454–0002. ALL UTILITIES MUST BE LOCATED PRIOR TO THE START OF CONSTRUCTION.
3. SEE UTILITY PLANS AND DRAINAGE PLANS FOR UTILITY ADJUSTMENTS AND REPLACEMENTS.
4. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY STRUCTURES THAT ARE NOT BEING REMOVED OR RELOCATED.
5. TRENCH BOXES OR OTHER TRENCH STABILIZATION METHODS MAY BE REQUIRED DURING CONSTRUCTION TO MINIMIZE REMOVAL LIMITS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, SUPPORTING IRRIGATION AND SHALL TAKE ALL REASONABLE EFFORTS TO PROTECT IRRIGATION SYSTEMS WITHIN THE PROJECT AREA.
7. SALVAGED HYDRANTS SHALL BE DELIVERED TO THE CITY OF CHANHASSEN PUBLIC WORKS DEPARTMENT (INCIDENTAL TO "SALVAGE HYDRANT").
8. CONTRACTOR MAY RECLAIM AREAS WITH FULL DEPTH RECONSTRUCTION.
9. SEE STORM SEWER PLANS FOR REPLACEMENT OF MANHOLE CASTING RINGS, REMOVAL OF EXISTING RINGS IS INCIDENTAL TO 2506.602 REPLACE CASTING RINGS.

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–RMVL.dwg

DESIGNED BY:	MAK
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DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

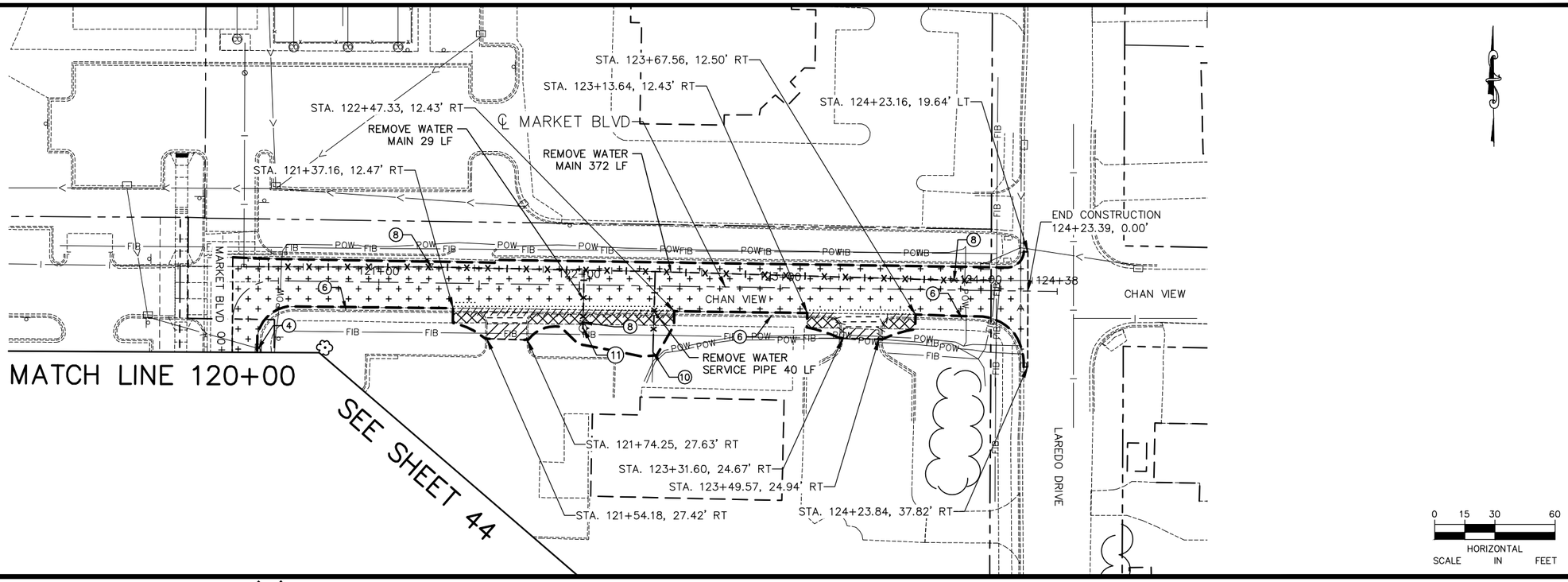
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

EXISTING CONDITIONS, EXISTING UTILITIES AND REMOVAL PLANS
STA. 114+50 TO STA. 120+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 44 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\2026–MARKET–RMVL.dwg February 20, 2026 – 2:48pm



LEGEND:

- REMOVE BITUMINOUS PAVEMENT (FULL DEPTH)
- FULL DEPTH RECLAMATION (SEE INSET B FOR DEPTHS)
- REMOVE CONCRETE WALK
- REMOVE BITUMINOUS WALK
- REMOVE BRICK PAVERS
- REMOVE CONCRETE DRIVEWAY PAVEMENT
- REMOVE BITUMINOUS DRIVEWAY PAVEMENT
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- REMOVE CURB & GUTTER
- REMOVE SEWER PIPE (STORM)
- REMOVE SEWER PIPE (SANITARY)
- REMOVE WATER MAIN
- ABANDON WATER MAIN

- CLEARING & GRUBBING (EACH)
- CLEARING & GRUBBING (ACRE)
- PROTECT TREE (INCIDENTAL)
- CONSTRUCTION LIMITS
- W — EXISTING WATER LINE

SPECIFIC NOTES:

1. REMOVE LIGHTING UNIT
   REMOVE LIGHT FOUNDATION
2. REMOVE DRAINAGE STRUCTURE
3. SALVAGE HYDRANT
4. PROTECT DRAINAGE STRUCTURE AND PIPE (INCIDENTAL)
5. RAIL ROAD SIGNAL SYSTEM, ARMS AND CABINET TO BE REMOVED (BY OTHERS)
6. PROTECT CURB & GUTTER (INCIDENTAL)
7. REMOVE CASTING
8. REMOVE GATE VALVE AND BOX
9. REMOVE PIPE APRON
10. REMOVE CURB STOP AND BOX
11. REMOVE HYDRANT

NOTES:

1. STRIP, STOCKPILE AND REUSE INPLACE TOPSOIL IN AREAS TO BE DISTURBED BY CONSTRUCTION.
2. CONTRACTOR SHALL CALL GOPHER STATE ONE CALL AT 651-454-0002. ALL UTILITIES MUST BE LOCATED PRIOR TO THE START OF CONSTRUCTION.
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DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
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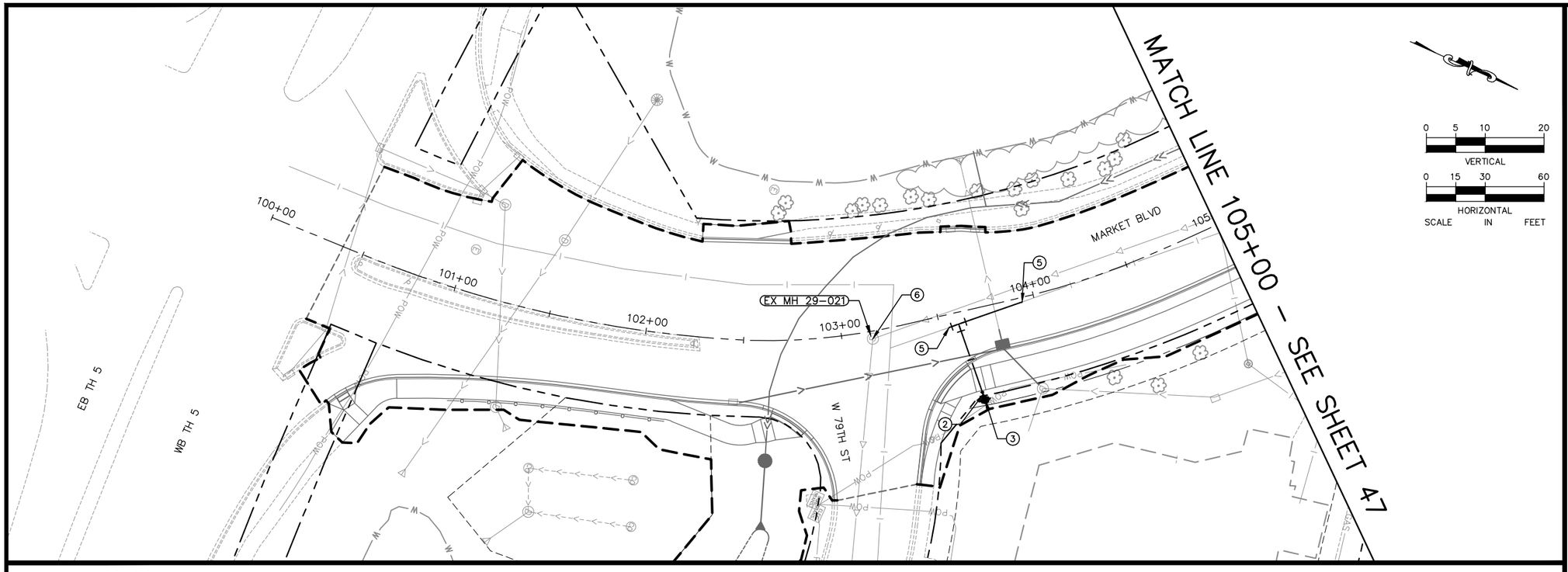
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

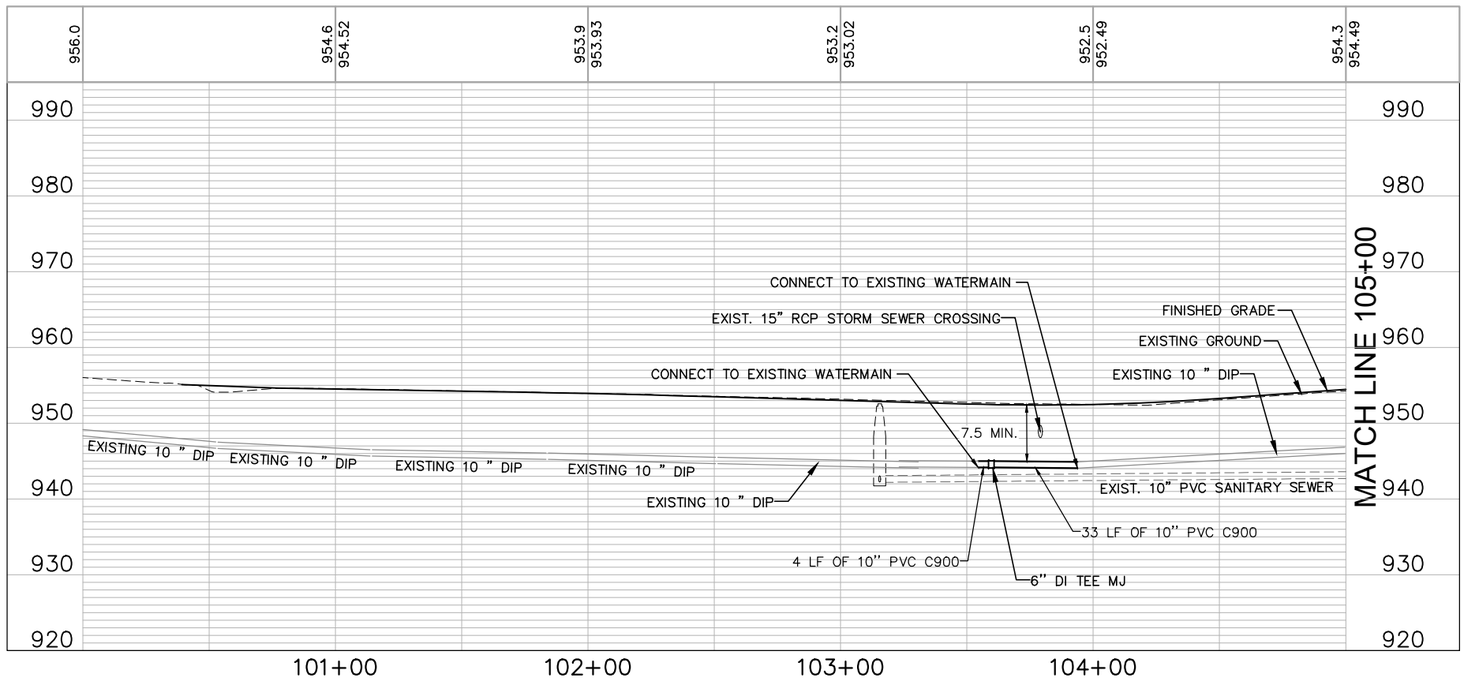
EXISTING CONDITIONS, EXISTING UTILITIES AND REMOVAL PLANS
STA. 120+00 TO STA. 124+00

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 45 / 169

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LEGEND:

- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED HYDRANT
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM STRUCTURES
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- EXISTING STORM SEWER
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

1. 10" GATE VALVE AND BOX
2. 6" GATE VALVE AND BOX
3. HYDRANT (SEE SHEET 51 FOR LEAD PROFILE)
4. CONNECT TO EXISTING SANITARY SEWER
5. CONNECT TO EXISTING WATERMAIN
6. ADJUST FRAME AND RING CASTING (SANITARY)
7. ADJUST GATE VALVE AND BOX
8. CONNECT INTO EXISTING DRAINAGE STRUCTURE (SANITARY)
9. 1" CURB STOP & BOX
10. 1" CORPORATION STOP

GENERAL NOTES:

1. SEE SHEET 51 FOR WATERMAIN AND SANITARY SEWER LATERAL PROFILES
2. SEE SHEET 52 FOR WATERMAIN OFFSET DETAIL

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–UTIL.dwg	
DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

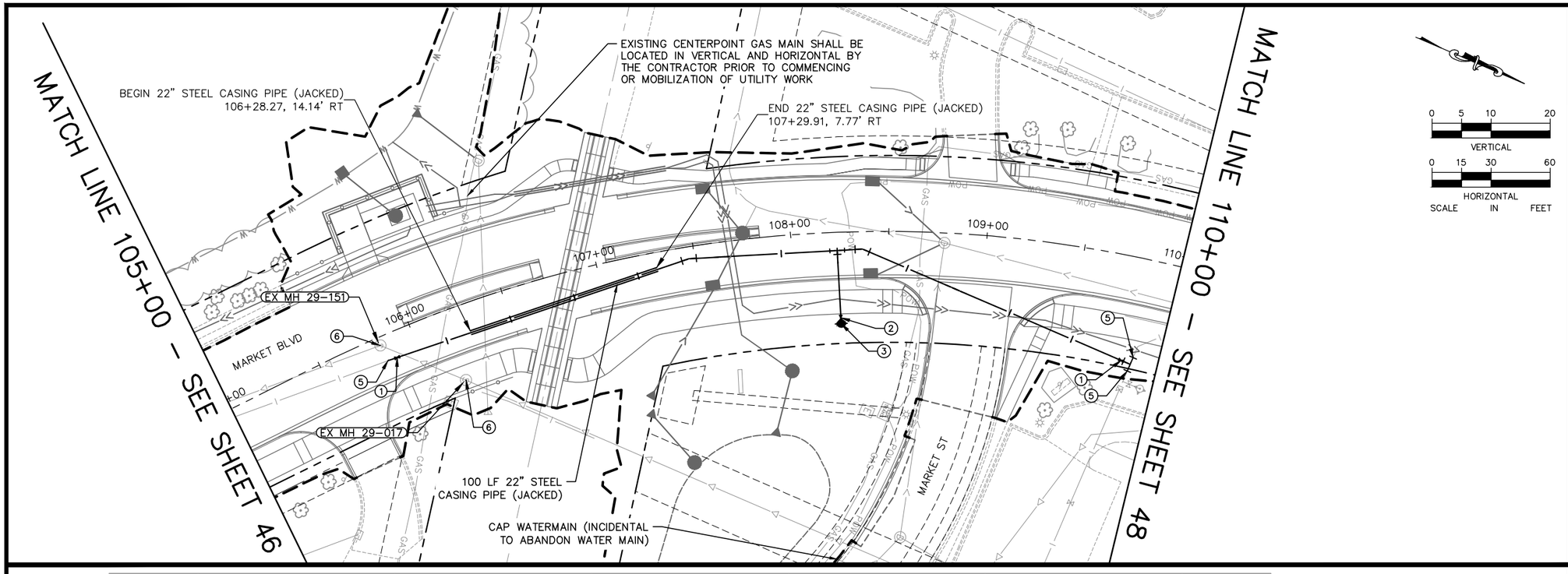
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

SANITARY SEWER AND WATERMAIN
PLAN & PROFILES
STA. 100+00 TO STA. 105+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 46 / 169

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VERTICAL
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HORIZONTAL
SCALE IN FEET

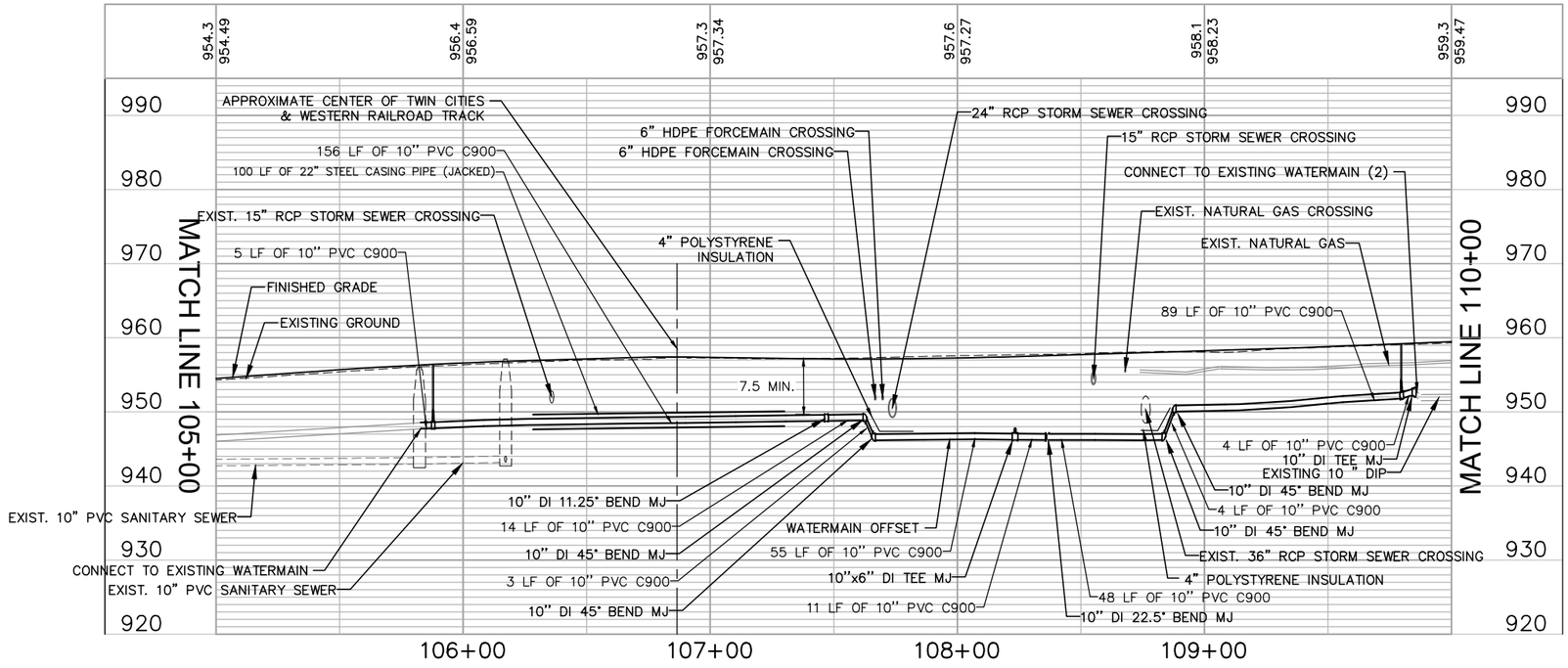
LEGEND:

- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED HYDRANT
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM STRUCTURES
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- EXISTING STORM SEWER
- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

① 10" GATE VALVE AND BOX
② 6" GATE VALVE AND BOX
③ HYDRANT (SEE SHEET 51 FOR LEAD PROFILE)
④ CONNECT TO EXISTING SANITARY SEWER
⑤ CONNECT TO EXISTING WATERMAIN
⑥ ADJUST FRAME AND RING CASTING (SANITARY)
⑦ ADJUST GATE VALVE AND BOX
⑧ CONNECT INTO EXISTING DRAINAGE STRUCTURE (SANITARY)
⑨ 1" CURB STOP & BOX
⑩ 1" CORPORATION STOP

GENERAL NOTES:
1. SEE SHEET 51 FOR WATERMAIN AND SANITARY SEWER LATERAL PROFILES
2. SEE SHEET 52 FOR WATERMAIN OFFSET DETAIL



No.	Date	Revisions	App.

DRAWING NAME	2026-MARKET-UTIL.dwg
DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

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MICHAEL A. KIRSCH
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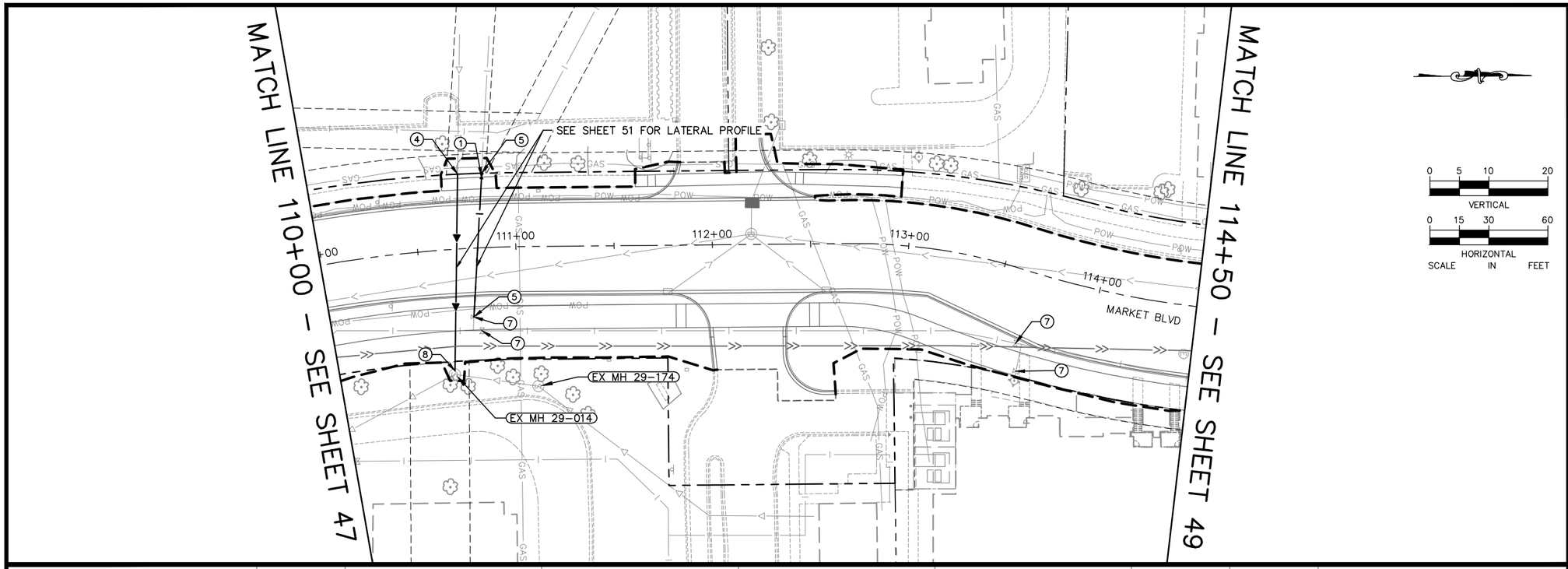
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

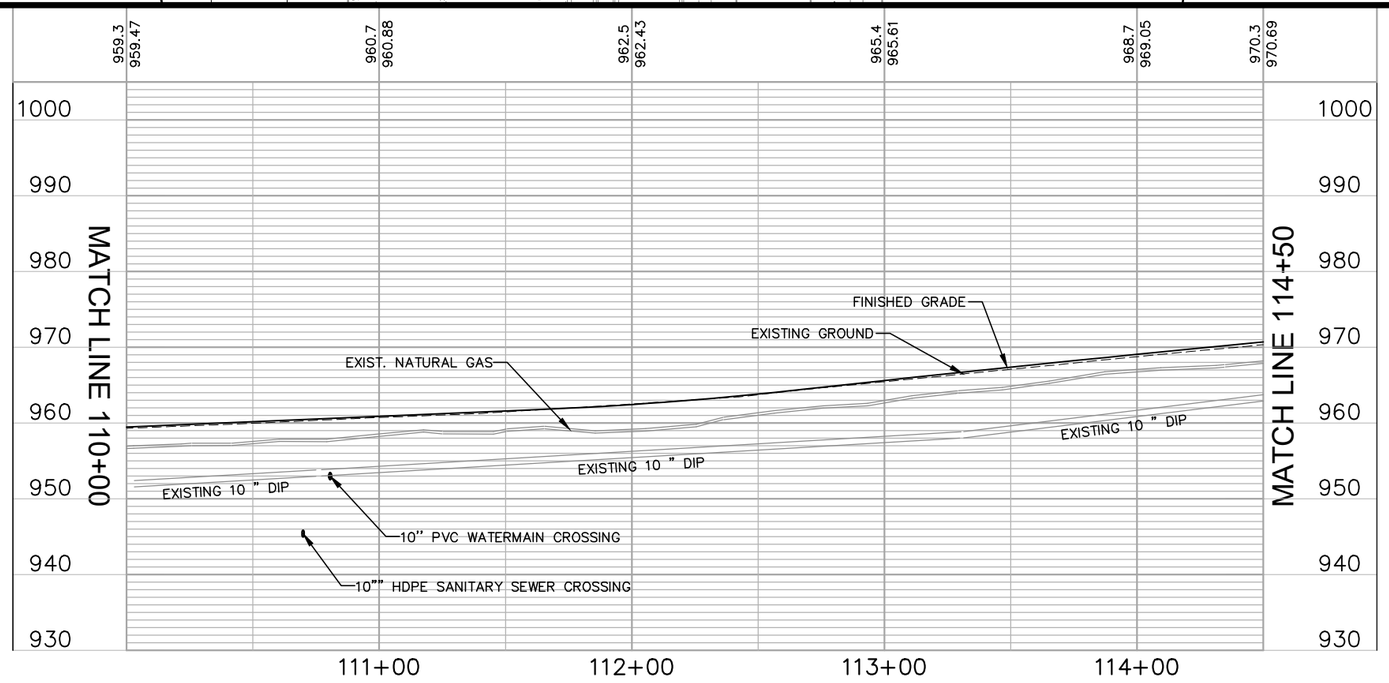
SANITARY SEWER AND WATERMAIN
PLAN & PROFILES
STA. 105+00 TO STA. 110+00

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 47 / 169

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LEGEND:

- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED HYDRANT
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM STRUCTURES
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- EXISTING STORM SEWER
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

① 10" GATE VALVE AND BOX
② 6" GATE VALVE AND BOX
③ HYDRANT (SEE SHEET 51 FOR LEAD PROFILE)
④ CONNECT TO EXISTING SANITARY SEWER
⑤ CONNECT TO EXISTING WATERMAIN
⑥ ADJUST FRAME AND RING CASTING (SANITARY)
⑦ ADJUST GATE VALVE AND BOX
⑧ CONNECT INTO EXISTING DRAINAGE STRUCTURE (SANITARY)
⑨ 1" CURB STOP & BOX
⑩ 1" CORPORATION STOP

GENERAL NOTES:
1. SEE SHEET 51 FOR WATERMAIN AND SANITARY SEWER LATERAL PROFILES
2. SEE SHEET 52 FOR WATERMAIN OFFSET DETAIL

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–UTIL.dwg	
DESIGNED BY:	MAK
DRAWN BY:	RCH
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PROJECT NO.	25–02

Kimley»Horn
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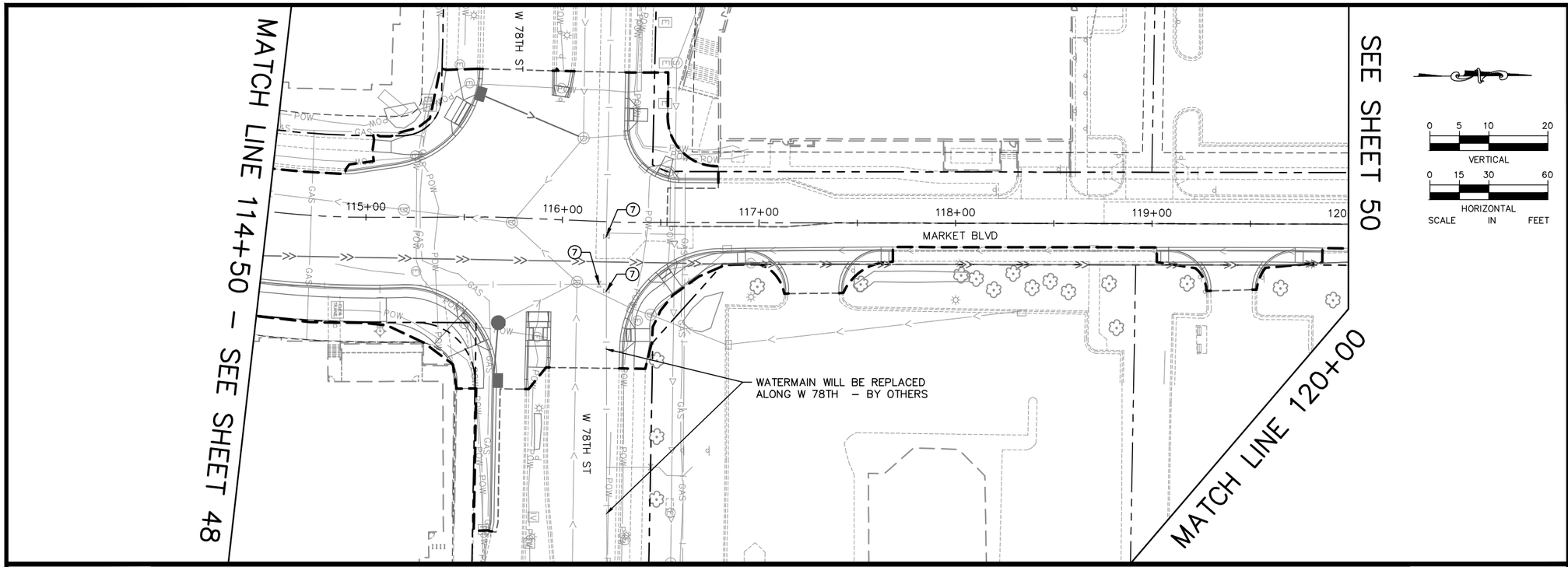
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

SANITARY SEWER AND WATERMAIN
PLAN & PROFILES
STA. 110+00 TO STA. 114+50

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 48 / 169

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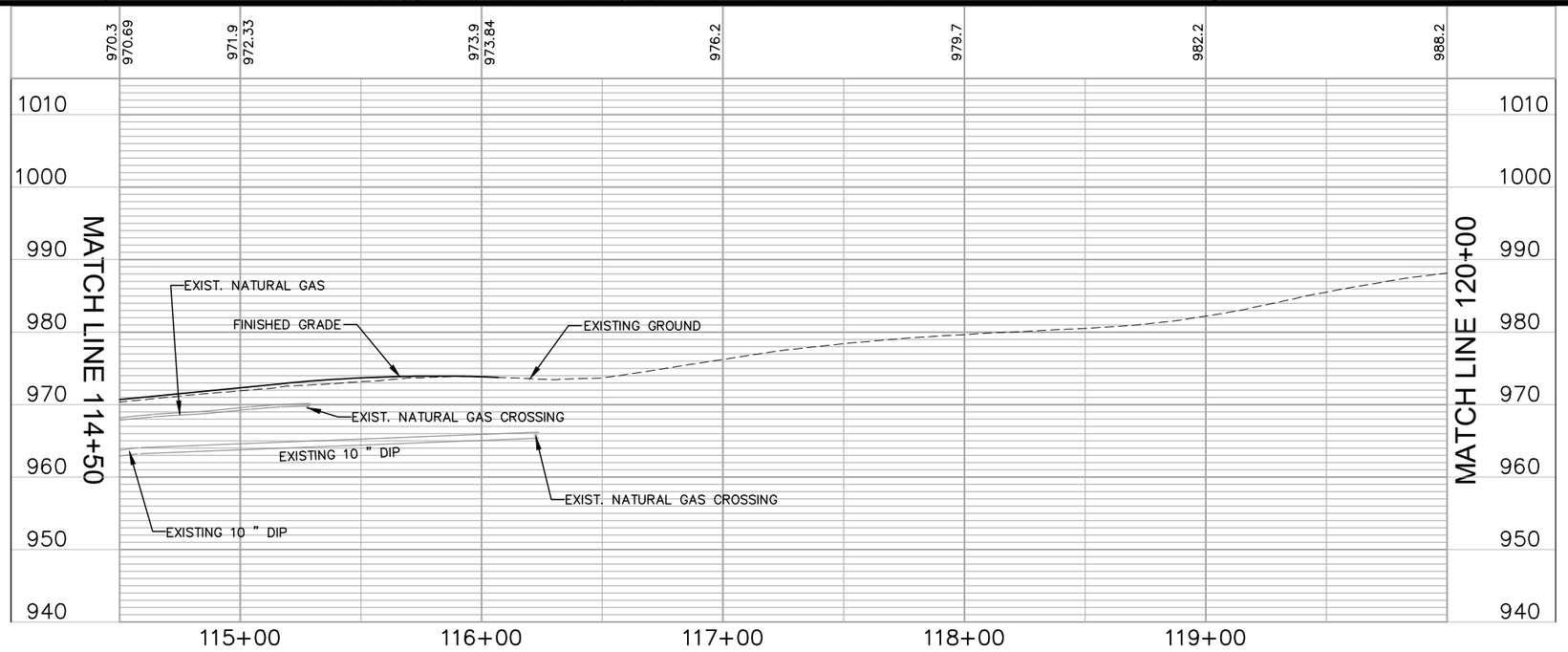
LEGEND:

- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED HYDRANT
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM STRUCTURES
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- EXISTING STORM SEWER
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

① 10" GATE VALVE AND BOX
② 6" GATE VALVE AND BOX
③ HYDRANT (SEE SHEET 51 FOR LEAD PROFILE)
④ CONNECT TO EXISTING SANITARY SEWER
⑤ CONNECT TO EXISTING WATERMAIN
⑥ ADJUST FRAME AND RING CASTING (SANITARY)
⑦ ADJUST GATE VALVE AND BOX
⑧ CONNECT INTO EXISTING DRAINAGE STRUCTURE (SANITARY)
⑨ 1" CURB STOP & BOX
⑩ 1" CORPORATION STOP

GENERAL NOTES:
1. SEE SHEET 51 FOR WATERMAIN AND SANITARY SEWER LATERAL PROFILES
2. SEE SHEET 52 FOR WATERMAIN OFFSET DETAIL



No.	Date	Revisions	App.

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PROJECT NO.	25–02

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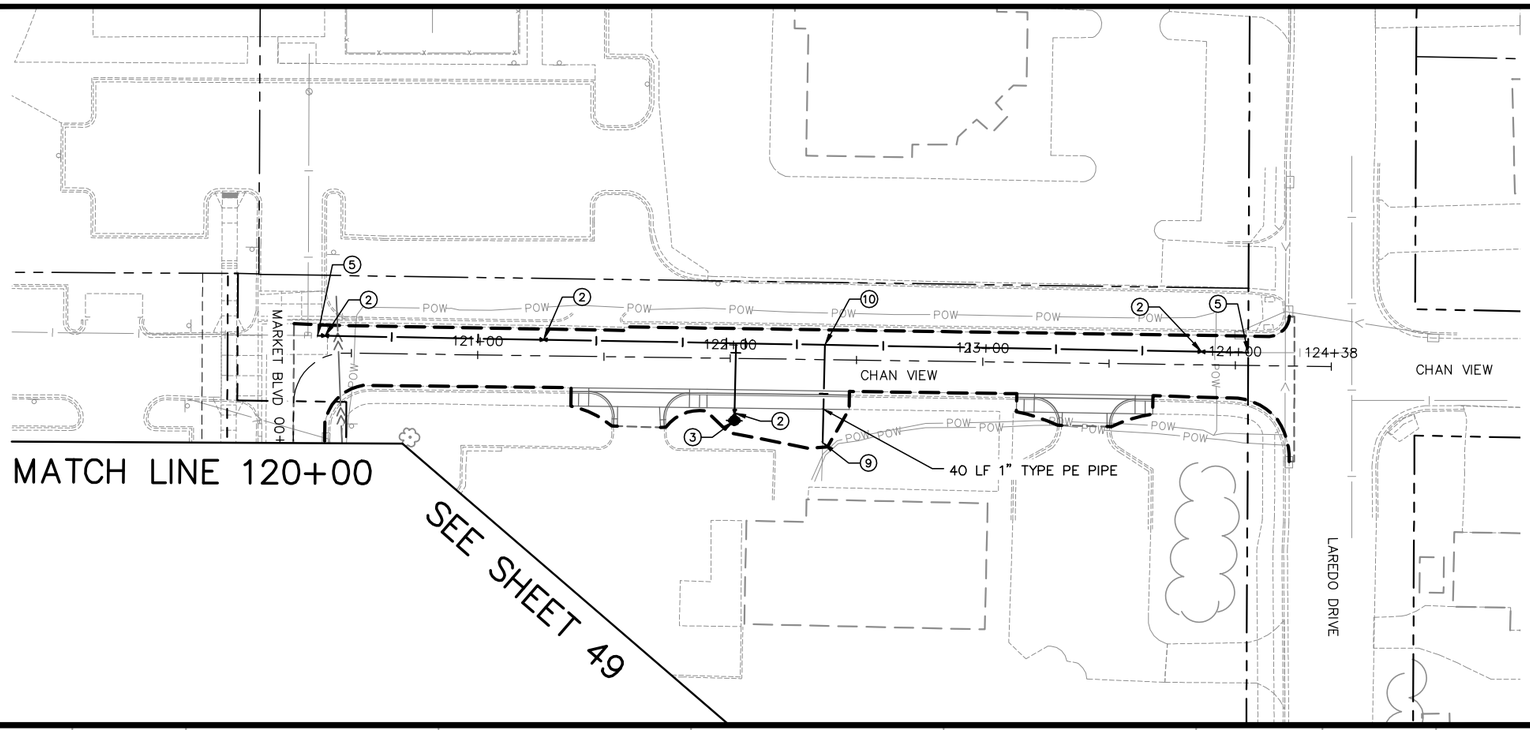
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

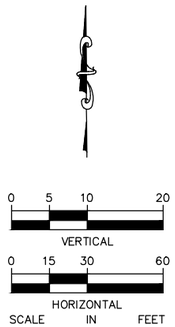
SANITARY SEWER AND WATERMAIN
PLAN & PROFILES
STA. 114+50 TO STA. 120+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 49 / 169

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LEGEND:

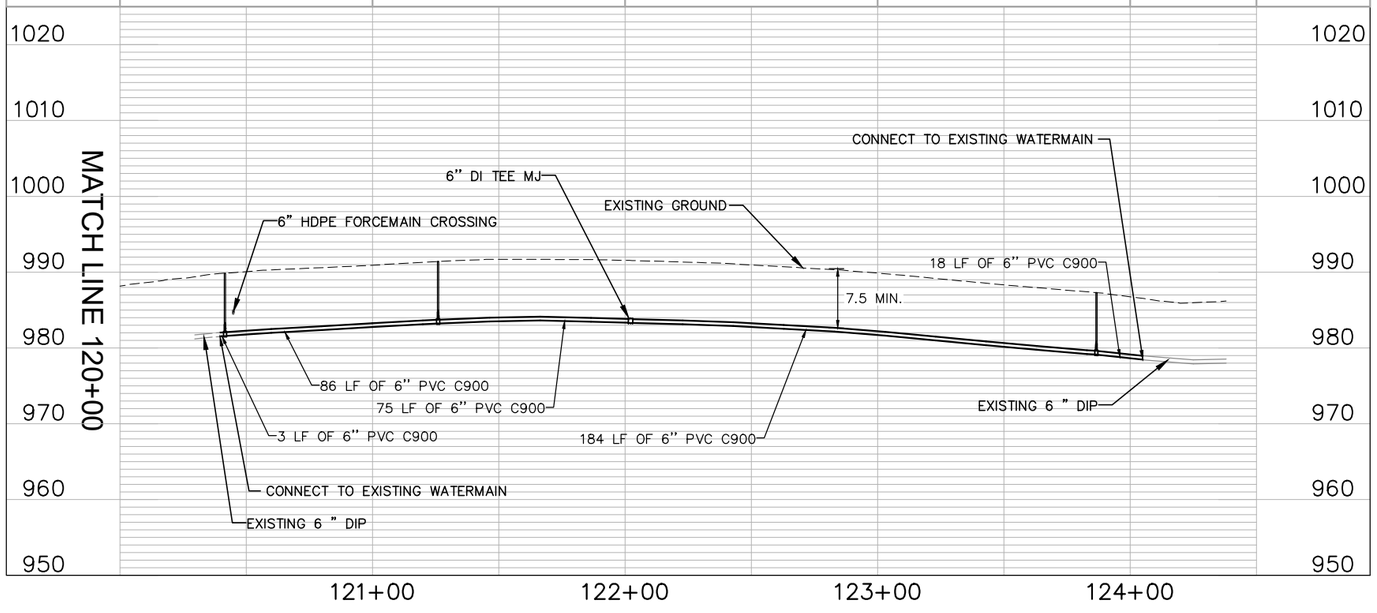
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED HYDRANT
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- PROPOSED STORM STRUCTURES
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- EXISTING STORM SEWER
- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

1. 10" GATE VALVE AND BOX
2. 6" GATE VALVE AND BOX
3. HYDRANT (SEE SHEET 51 FOR LEAD PROFILE)
4. CONNECT TO EXISTING SANITARY SEWER
5. CONNECT TO EXISTING WATERMAIN
6. ADJUST FRAME AND RING CASTING (SANITARY)
7. ADJUST GATE VALVE AND BOX
8. CONNECT INTO EXISTING DRAINAGE STRUCTURE (SANITARY)
9. 1" CURB STOP & BOX
10. 1" CORPORATION STOP

GENERAL NOTES:

1. SEE SHEET 51 FOR WATERMAIN AND SANITARY SEWER LATERAL PROFILES
2. SEE SHEET 52 FOR WATERMAIN OFFSET DETAIL



No.	Date	Revisions	App.

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11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

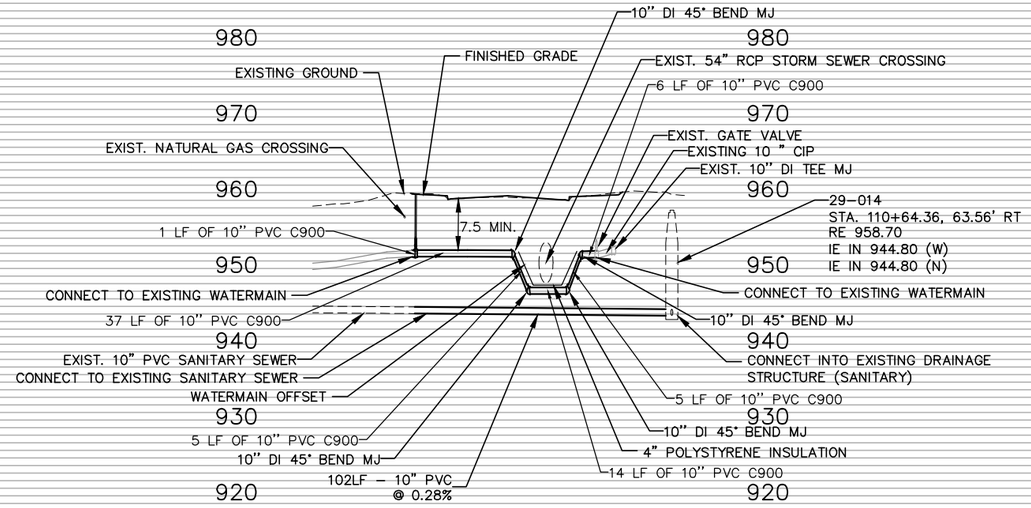
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

SANITARY SEWER AND WATERMAIN
PLAN & PROFILES
STA. 120+00 TO STA. 124+00

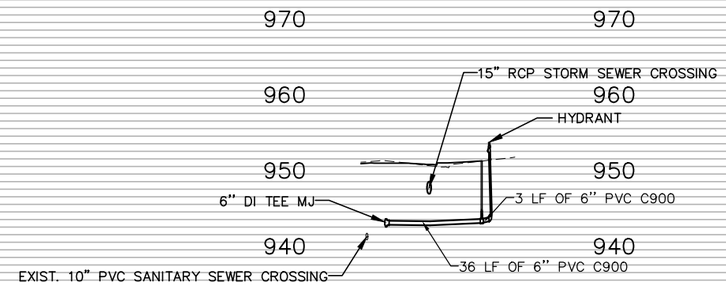
CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 50 / 169

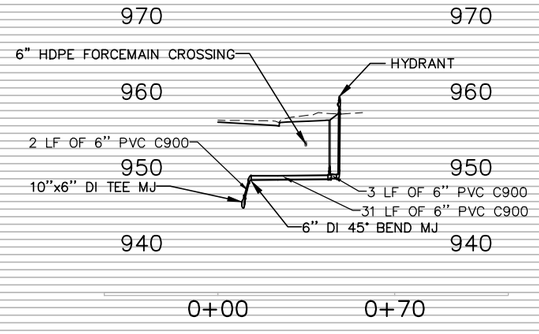
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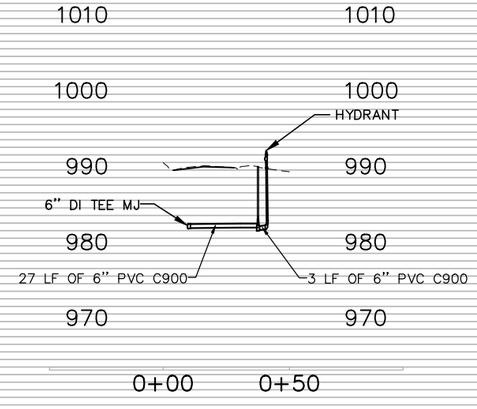
WATERMAIN CROSSING PROFILE – STA: 110+85



HYDRANT PROFILE – STA: 103+55



HYDRANT PROFILE – STA: 108+25



HYDRANT PROFILE – STA: 122+00

VERTICAL SCALE IN FEET: 0 5 10 20

HORIZONTAL SCALE IN FEET: 0 15 30 60

No.	Date	Revisions	App.

DRAWING NAME	2026-MARKET-UTILLAT.dwg
DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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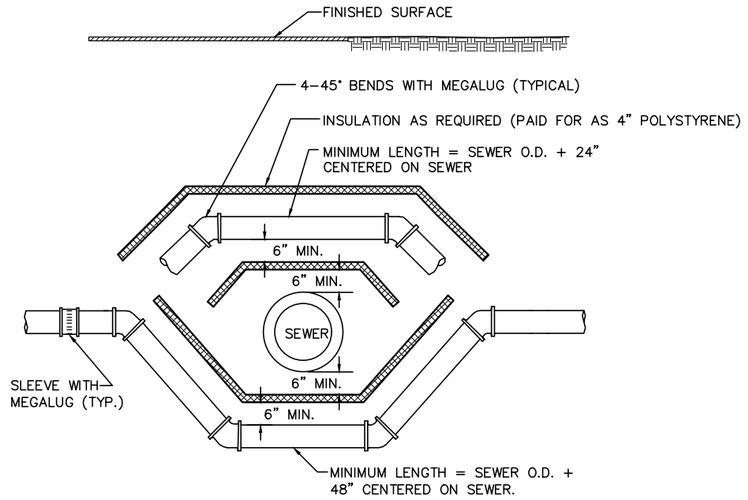
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

SANITARY SEWER AND WATERMAIN
LATERAL PROFILES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 51 / 169

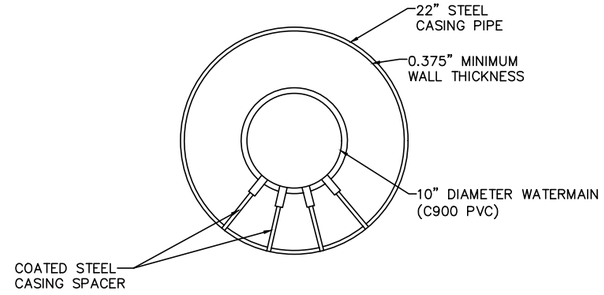
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NOTES:
1. MAINTAIN 6" MINIMUM CLEARANCE BETWEEN SEWER & INSULATION
2. MAINTAIN MINIMUM 6" SELECT GRANULAR MATERIAL AROUND INSULATION.
3. WATERMAIN OFFSET AT CROSSINGS WITHIN 18" BETWEEN WATERMAIN AND STORM OR SANITARY SEWER.

GENERAL NOTES:
1. WORK PAID FOR AS "6" PVC WATERMAIN" OR "10" PVC WATERMAIN", "DUCTILE IRON FITTINGS", AND "4" POLYSTYRENE INSULATION".

WATERMAIN OFFSET DETAIL



STEEL CASING PIPE DETAIL

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–TYPC.dwg	
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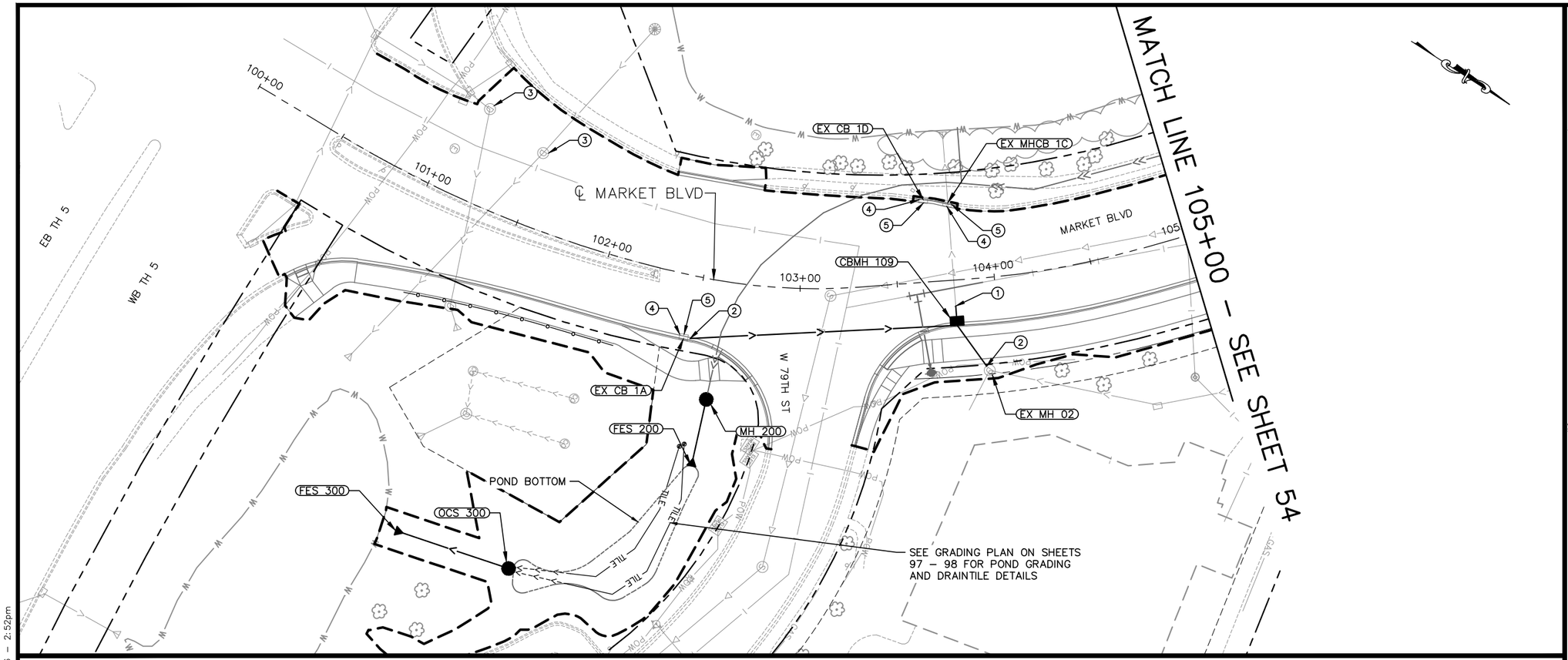
CITY OF CHANHASSEN
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2026 IMPROVEMENTS

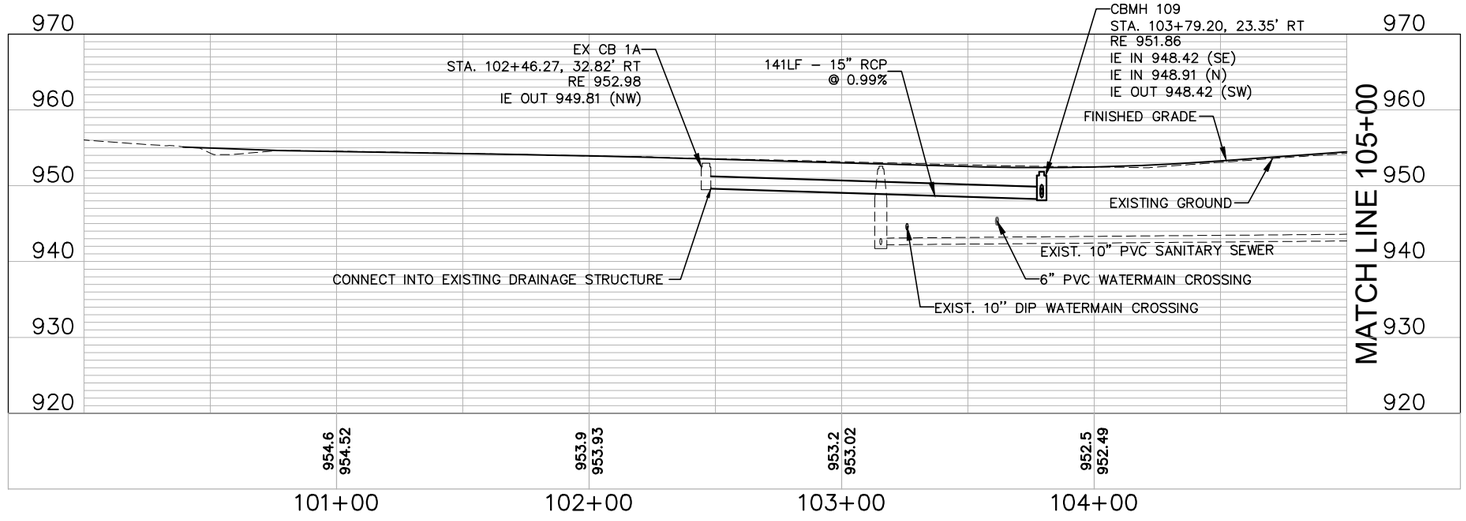
SANITARY SEWER AND WATERMAIN DETAILS

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 52 / 169

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LEGEND:

- PROPOSED STORM CBMH OR CB
- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- PROPOSED DRAINTILE (SEE SHEETS 96 – 97 FOR DETAILS)
- EXISTING STORM SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING WATERMAIN
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

1. CONNECT TO EXISTING STORM SEWER
2. CONNECT INTO EXISTING DRAINAGE STRUCTURE
3. ADJUST FRAME AND RING CASTING (STORM)
4. CASTING ASSEMBLY
5. REPLACE CASTING RINGS

NOTES:

1. SEE SHEET 58 FOR STORM SEWER LATERAL PROFILES
2. SEE SHEET 60 FOR DRAINAGE TABULATIONS
3. SEE SHEETS 70 – 83 FOR FORCEMAIN PLANS PROFILES AND DETAILS
4. SEE EROSION CONTROL PLANS FOR RIP RAP DETAILS AND DRAINAGE TABULATIONS FOR RIP RAP QUANTITY TABULATIONS
5. REMOVAL OF EXISTING RINGS IS INCIDENTAL TO 2506.602 REPLACE CASTING RINGS.

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–STRM.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
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PROJECT NO.	25–02

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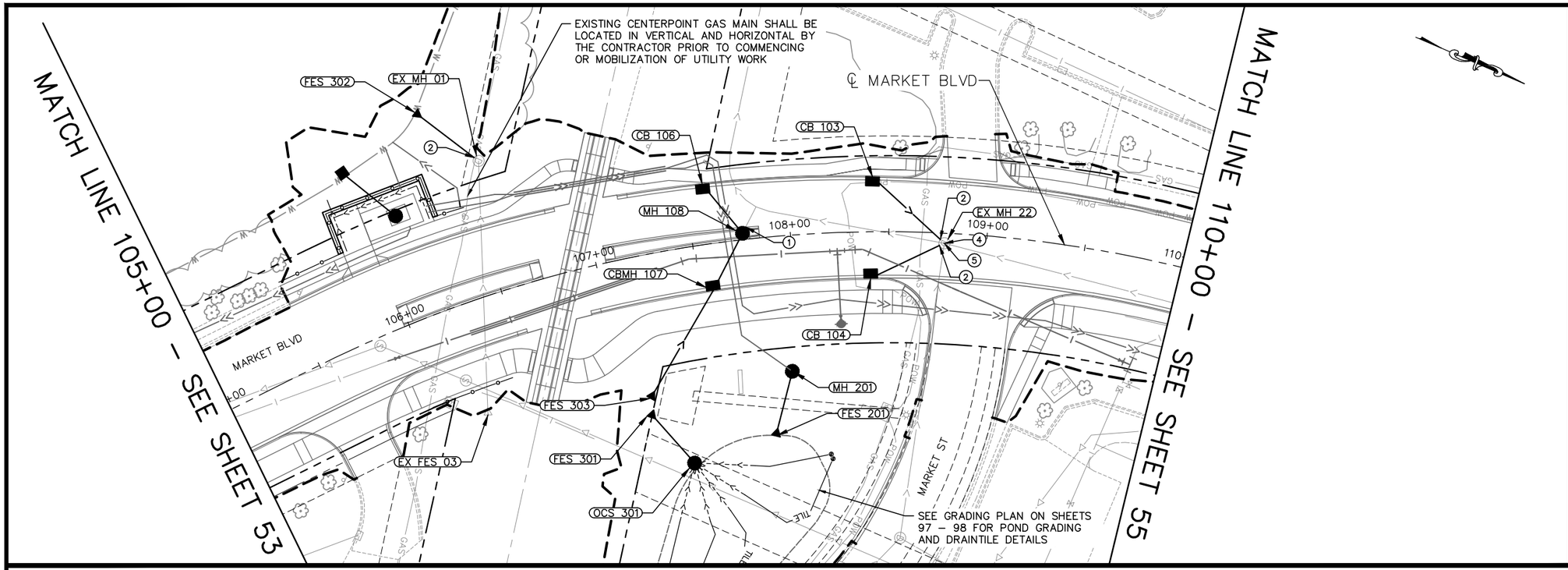
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

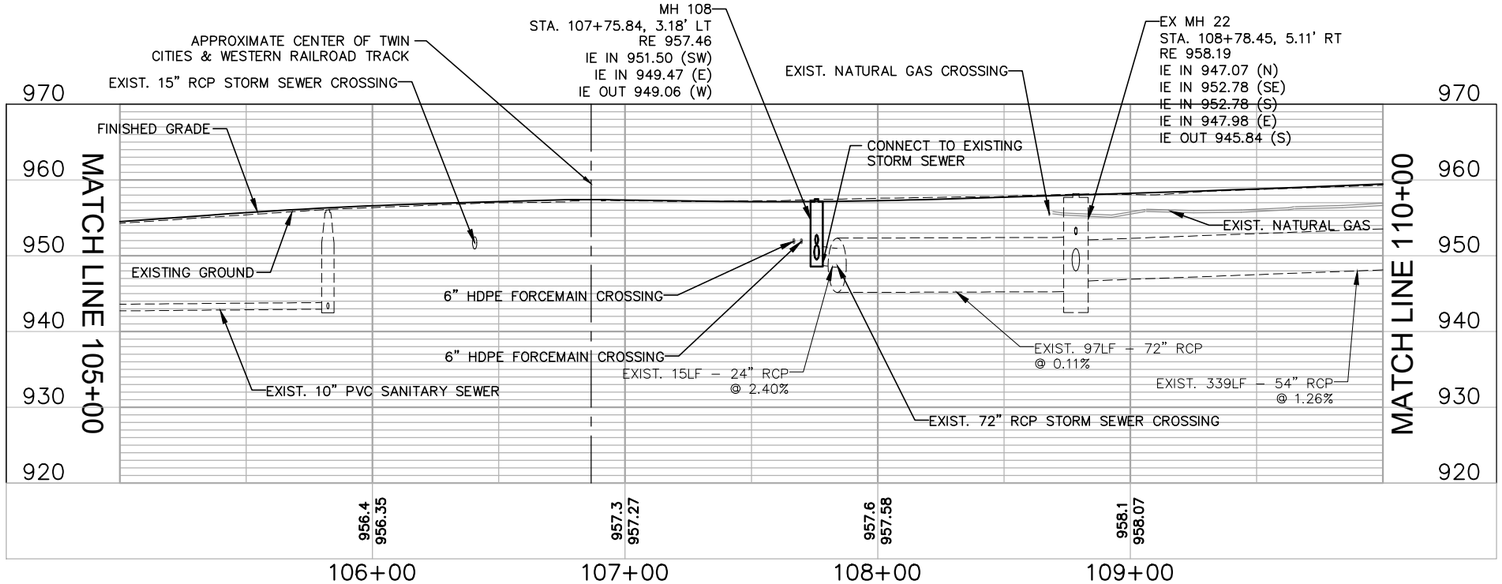
STORM SEWER PLAN & PROFILES
MARKET BOULEVARD
STA. 100+00 TO STA. 105+00

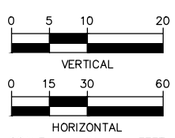
CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 53 / 169

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LEGEND:

- PROPOSED STORM CBMH OR CB
- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- PROPOSED DRAINTILE (SEE SHEETS 96 – 97 FOR DETAILS)
- EXISTING STORM SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING WATERMAIN
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

① CONNECT TO EXISTING STORM SEWER
② CONNECT INTO EXISTING DRAINAGE STRUCTURE
③ ADJUST FRAME AND RING CASTING (STORM)
④ CASTING ASSEMBLY
⑤ REPLACE CASTING RINGS

NOTES:

1. SEE SHEET 58 FOR STORM SEWER LATERAL PROFILES
2. SEE SHEET 60 FOR DRAINAGE TABULATIONS
3. SEE SHEETS 70 – 83 FOR FORCEMAIN PLANS PROFILES AND DETAILS
4. SEE EROSION CONTROL PLANS FOR RIP RAP DETAILS AND DRAINAGE TABULATIONS FOR RIP RAP QUANTITY TABULATIONS
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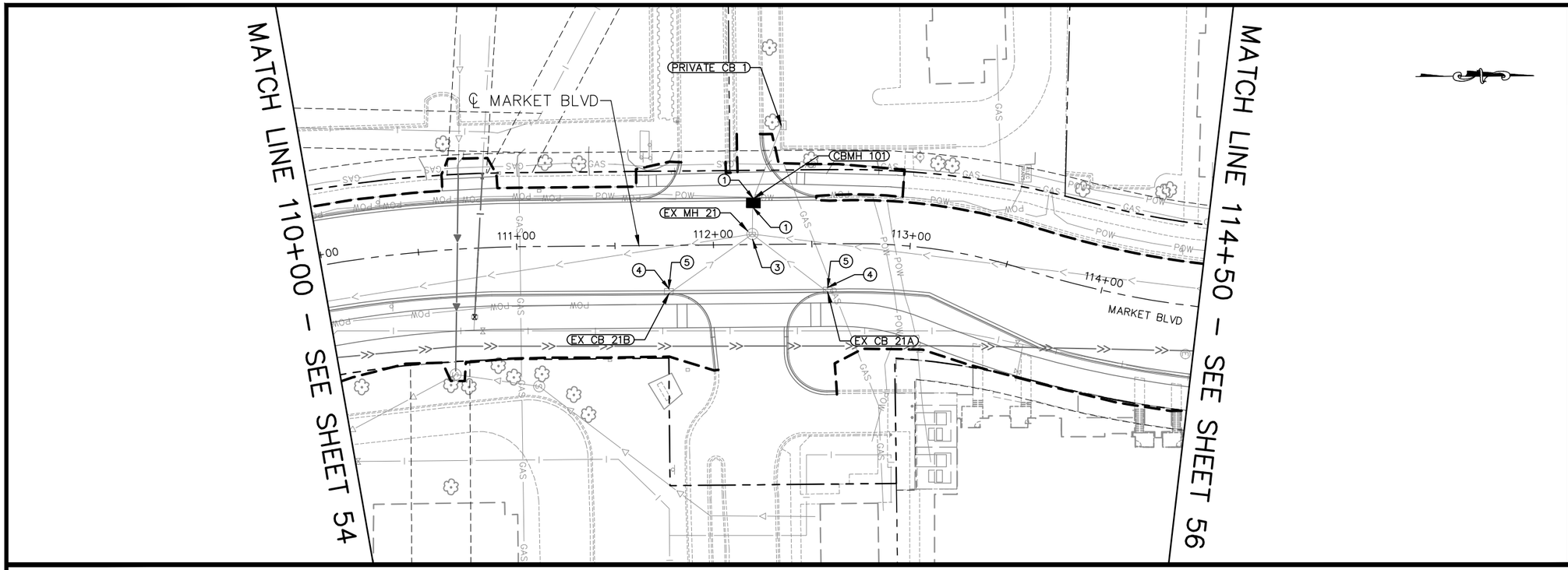
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

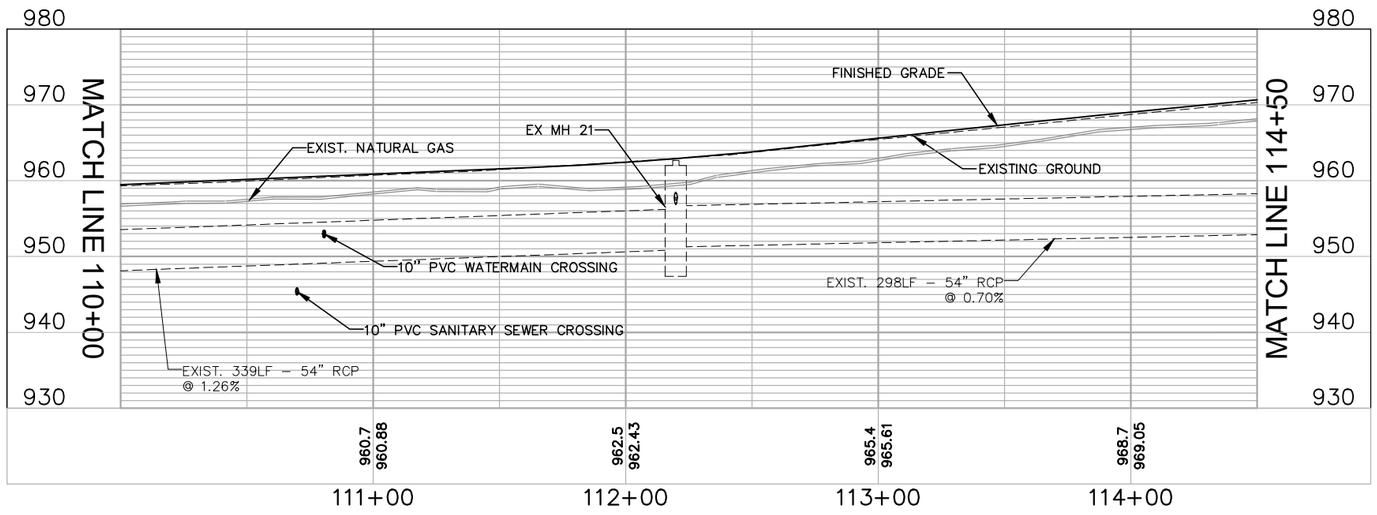
STORM SEWER PLAN & PROFILES
MARKET BOULEVARD
STA. 105+00 TO STA. 110+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 54 / 169

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LEGEND:

- PROPOSED STORM CBMH OR CB
- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- PROPOSED DRAINTILE (SEE SHEETS 96 – 97 FOR DETAILS)
- EXISTING STORM SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING WATERMAIN
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

1. CONNECT TO EXISTING STORM SEWER
2. CONNECT INTO EXISTING DRAINAGE STRUCTURE
3. ADJUST FRAME AND RING CASTING (STORM)
4. CASTING ASSEMBLY
5. REPLACE CASTING RINGS

NOTES:

1. SEE SHEET 58 FOR STORM SEWER LATERAL PROFILES
2. SEE SHEET 60 FOR DRAINAGE TABULATIONS
3. SEE SHEETS 70 – 83 FOR FORCEMAIN PLANS PROFILES AND DETAILS
4. SEE EROSION CONTROL PLANS FOR RIP RAP DETAILS AND DRAINAGE TABULATIONS FOR RIP RAP QUANTITY TABULATIONS
5. REMOVAL OF EXISTING RINGS IS INCIDENTAL TO 2506.602 REPLACE CASTING RINGS.

VERTICAL: 0 5 10 20

HORIZONTAL: 0 15 30 60

SCALE IN FEET

No.	Date	Revisions	App.

DRAWING NAME: 2026–MARKET–STRM.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
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MICHAEL A. KIRSCH

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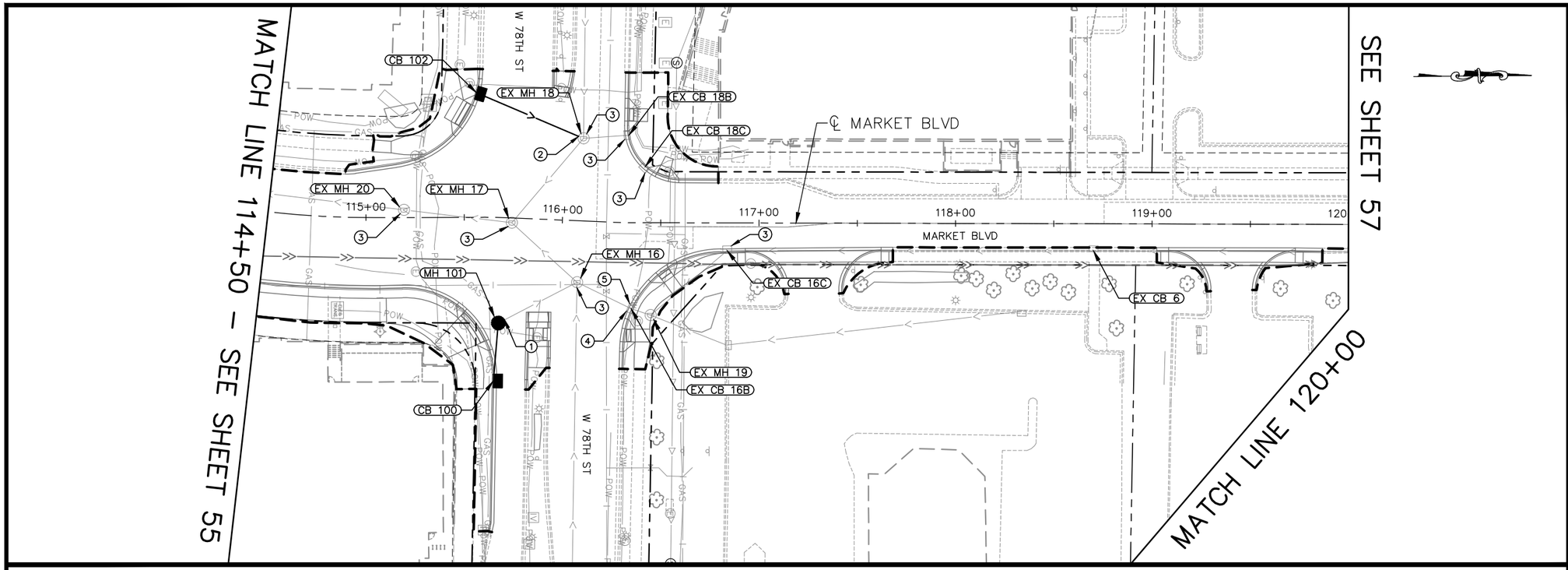
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

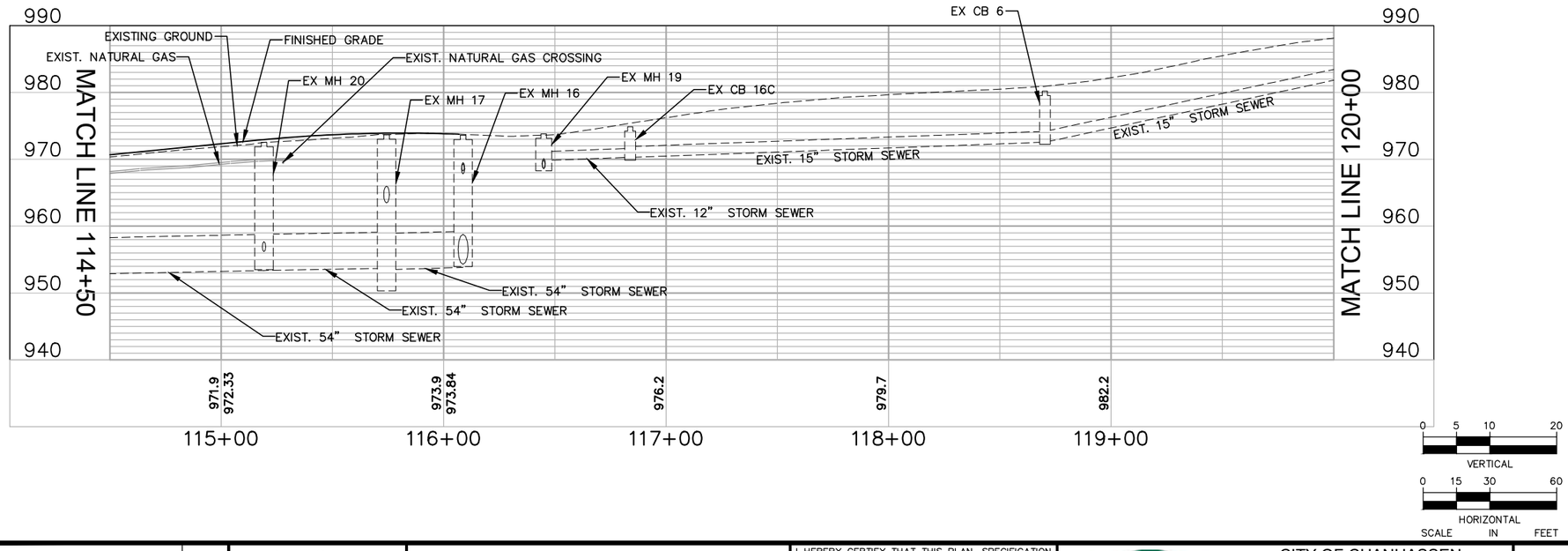
STORM SEWER PLAN & PROFILES
MARKET BOULEVARD
STA. 110+00 TO STA. 114+50

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 55 / 169

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LEGEND:

- PROPOSED STORM CBMH OR CB
- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- PROPOSED DRAINTILE (SEE SHEETS 96 – 97 FOR DETAILS)
- EXISTING STORM SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING WATERMAIN
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
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4. CASTING ASSEMBLY
5. REPLACE CASTING RINGS

NOTES:

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2. SEE SHEET 60 FOR DRAINAGE TABULATIONS
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5. REMOVAL OF EXISTING RINGS IS INCIDENTAL TO 2506.602 REPLACE CASTING RINGS.

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–STRM.dwg

DESIGNED BY:	MAK
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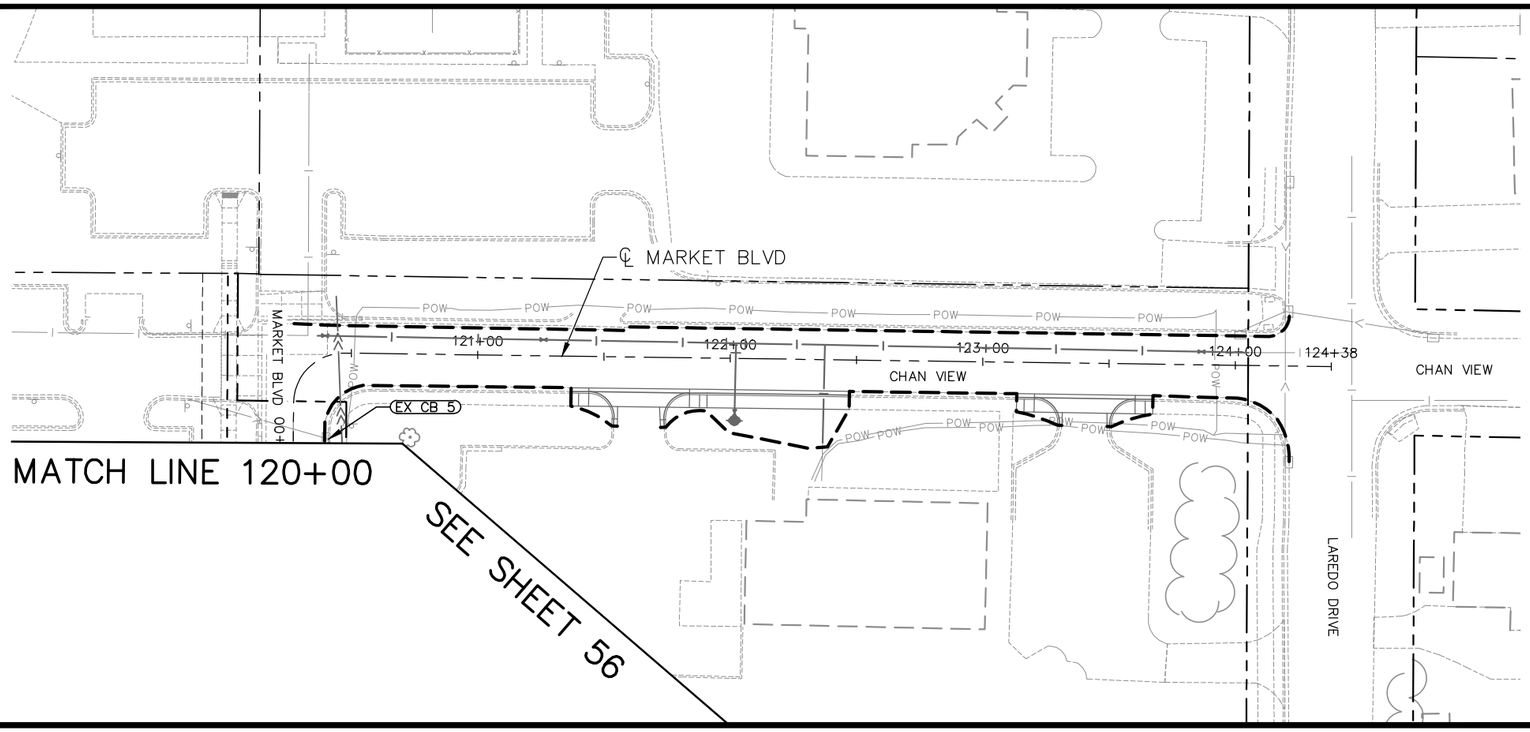
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

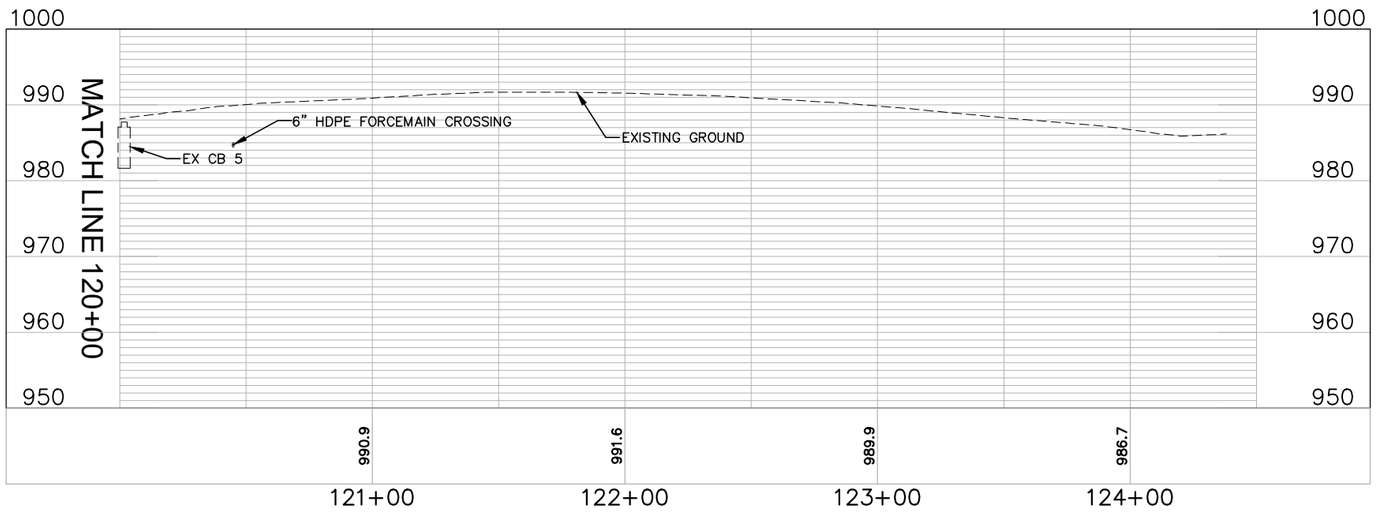
STORM SEWER PLAN & PROFILES
MARKET BOULEVARD
STA. 114+50 TO STA. 120+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 56 / 169

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LEGEND:

- PROPOSED STORM CBMH OR CB
- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER
- PROPOSED STORM REUSE SYSTEM
- PROPOSED DRAINTILE (SEE SHEETS 96 – 97 FOR DETAILS)
- EXISTING STORM SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED WATERMAIN
- EXISTING WATERMAIN
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

1. CONNECT TO EXISTING STORM SEWER
2. CONNECT INTO EXISTING DRAINAGE STRUCTURE
3. ADJUST FRAME AND RING CASTING (STORM)
4. CASTING ASSEMBLY
5. REPLACE CASTING RINGS

NOTES:

1. SEE SHEET 58 FOR STORM SEWER LATERAL PROFILES
2. SEE SHEET 60 FOR DRAINAGE TABULATIONS
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VERTICAL SCALE IN FEET: 0 5 10 20

HORIZONTAL SCALE IN FEET: 0 15 30 60

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–STRM.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
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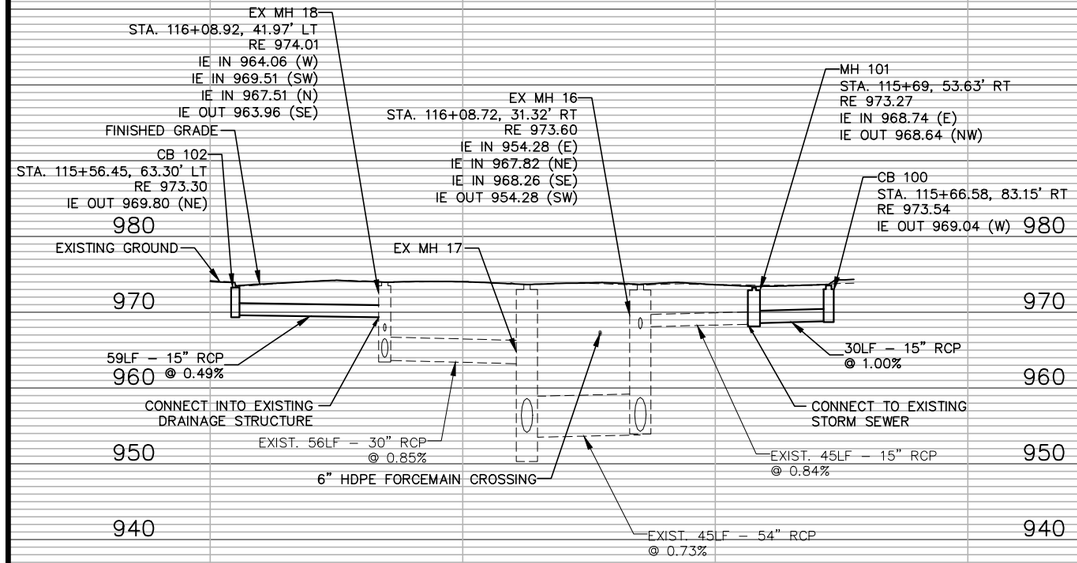
CITY OF CHANHASSEN
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2026 IMPROVEMENTS

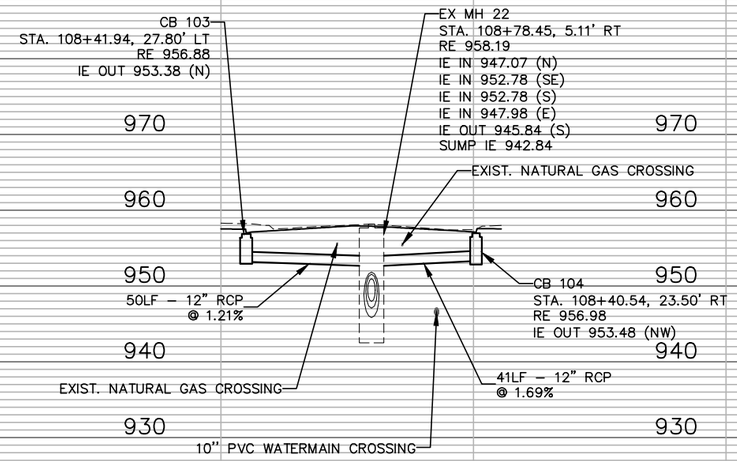
STORM SEWER PLAN & PROFILES
MARKET BOULEVARD
STA. 120+00 TO STA. 124+00

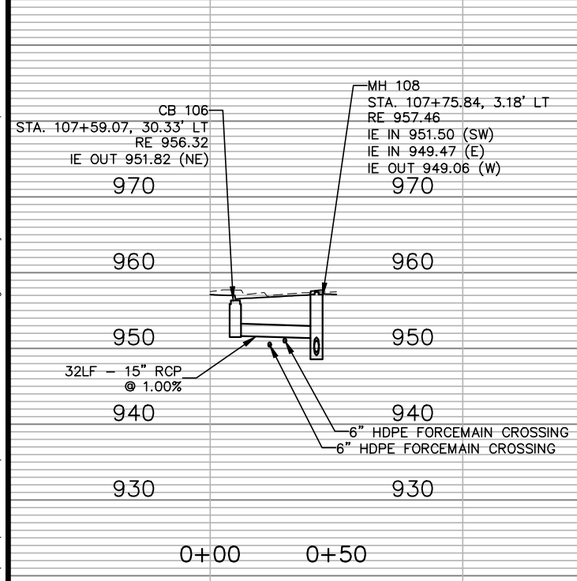
CITY PROJECT	25–02
S.A.P.	194–123–002

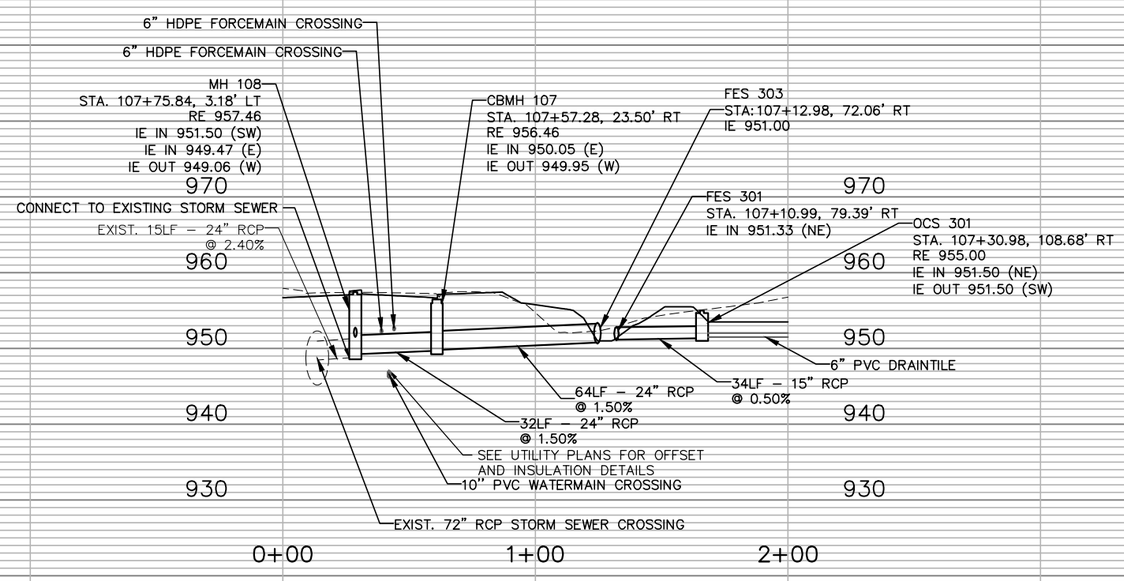
SHEET NO. 57 / 169

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MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

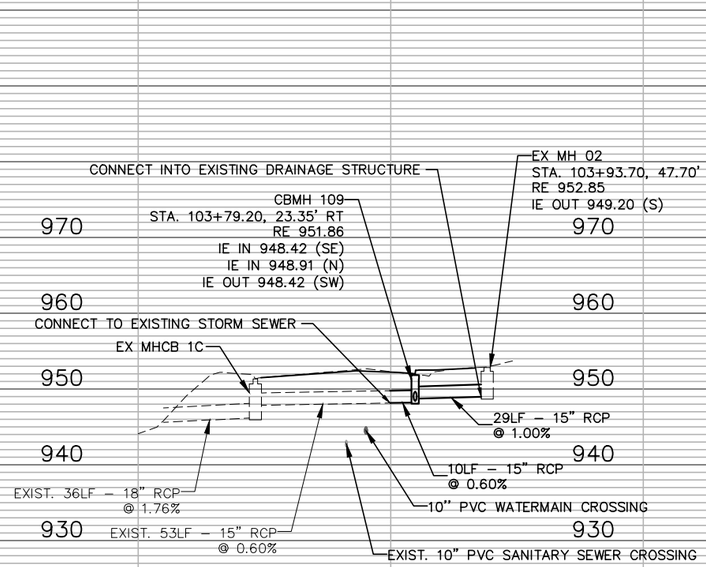
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

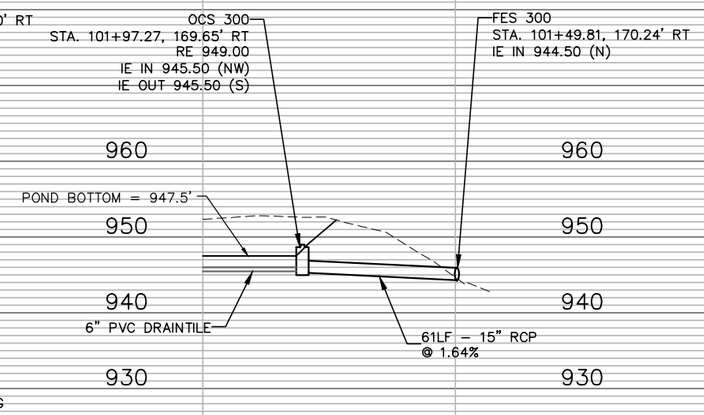
STORM SEWER
LATERAL PROFILES

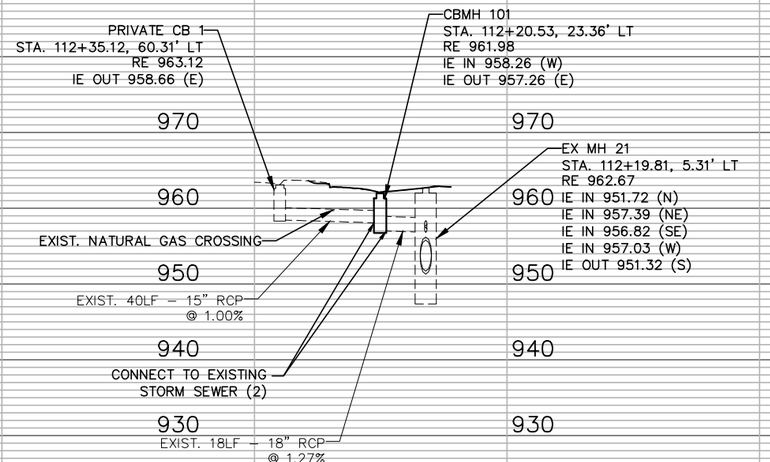
CITY PROJECT	25-02
S.A.P.	194-123-002

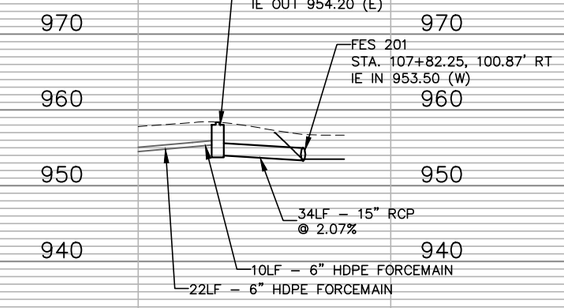
SHEET NO. 58 / 169

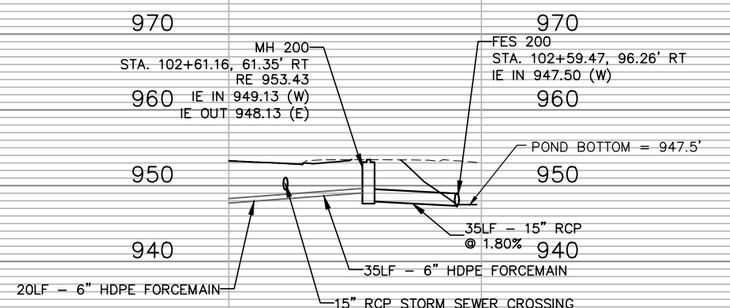
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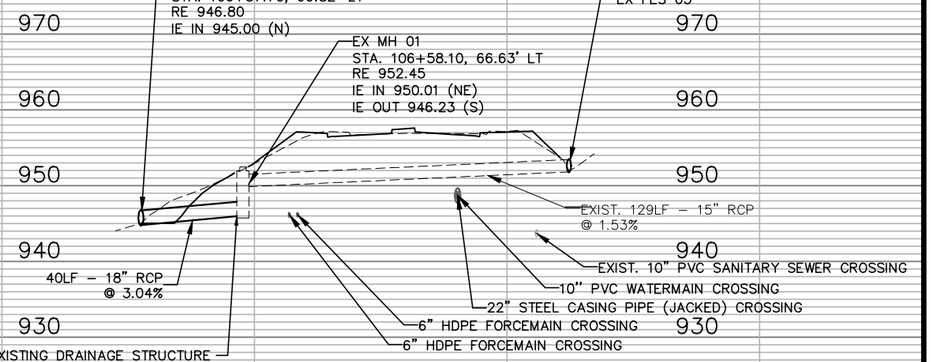












0 5 10 20 VERTICAL SCALE IN FEET

0 15 30 60 HORIZONTAL SCALE IN FEET

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DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

STORM SEWER
LATERAL PROFILES

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 59 / 169

PIPE AND STRUCTURE TABULATION

FLOWS FROM	TYPE	STRUCTURE LOCATION				TOP OF CASTING ELEVATION	CASTING ASSEMBLY	STEPS REQ	OUTLET ELEVATION	STRUCTURE		FLOWS TO			RC PIPE SEWER DES 3006				CONNECT TO EX. STORM SEWER	NOTES
										3002	4020									
STRUCTURE NUMBER		ALIGNMENT NAME	STATION	OFFSET						2' x 3'	48"	STR. NO.	PIPE SLOPE	INLET ELEVATION	12" CL V	15" CL V	18" CL III	24" CL III		
						FT			FT	LIN FT	LIN FT		%	FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	
EX CB 1A	CB	MARKET BLVD	102+46.27	32.82	R	952.98	R-3067-V		949.81			CBMH 109	0.99%	948.42		141				
EX CB 1C	CB	-	-	-	-	-	R-3067-V													
EX CB 1D	CB	-	-	-	-	-	R-3067-V													
EX MH 01	MH	MARKET BLVD	106+58.10	66.63	L	952.45			946.23			FES 302	3.04%	945.00			40			
EX MH 02	MH	MARKET BLVD	103+93.70	47.70	R	952.85			949.20			CBMH 109	1.00%	948.91		29				
EX CB 21A	CB	-	-	-	-	-	R-3067-V													
EX CB 21B	CB	-	-	-	-	-	R-3067-V													
EX MH 22	MH	-	-	-	-	-	R-1642													
CB 100	CB	MARKET BLVD	115+66.58	83.15	R	973.54	R-3067-V	YES	969.04	4.5		MH 101	1.00%	968.74		30				
MH 101	MH	MARKET BLVD	115+69.00	53.63	R	973.27	R-1642	YES	968.64		4.6	-	-	-					1	
CBMH 101	CBMH	MARKET BLVD	112+20.53	23.36	L	961.98	R-3067-C	YES	957.26		4.7	-	-	-					2	
CB 102	CB	MARKET BLVD	115+56.45	63.30	L	973.30	R-3067-V	YES	969.80	3.5		EX MH 18	0.49%	969.51		59				
CB 103	CB	MARKET BLVD	108+41.94	27.80	L	956.88	R-3067-V	YES	953.38	3.5		EX MH 22	1.21%	952.78	50					
CB 104	CB	MARKET BLVD	108+40.54	23.50	R	956.98	R-3067-V	YES	953.48	3.5		EX MH 22	1.69%	952.78	41					
CB 106	CB	MARKET BLVD	107+59.07	30.33	L	956.32	R-3067-V	YES	951.82	4.5		MH 108	1.00%	951.50		32				
CBMH 107	CBMH	MARKET BLVD	107+57.28	23.50	R	956.46	R-3067-V	YES	949.95		6.5	MH 108	1.50%	949.47				32		
MH 108	MH	MARKET BLVD	107+75.84	3.18	L	957.46	R-1642	YES	949.06		8.4	-	-	-					1	
CBMH 109	CBMH	MARKET BLVD	103+79.20	23.35	R	951.86	R-3067-V	YES	948.42		3.4	-	0.30%	-		10			1	
MH 200	MH	MARKET BLVD	102+61.16	62.35	R	953.43	R-1642	YES	948.13		5.3	FES 200	1.80%	947.50		35				
FES 200	FES	MARKET BLVD	102+59.47	96.26	R															
MH 201	MH	MARKET BLVD	107+95.27	69.00	R	958.34	R-1642	YES	954.20		4.1	FES 201	2.07%	953.50		34				
FES 201	FES	MARKET BLVD	107+82.25	100.87	R															
OCS 300	OCS MH	MARKET BLVD	101+97.27	169.65	R	949.00	OCS-3109	YES	945.50		3.5	FES 300	1.64%	944.50		61				
FES 300	FES	MARKET BLVD	101+49.81	170.24	R															
OCS 301	OCS MH	MARKET BLVD	107+30.98	108.68	R	955.00	OCS-3109	YES	951.50		3.5	FES 301	0.50%	951.33		34				
FES 301	FES	MARKET BLVD	107+10.99	79.39	R															
FES 303	FES	MARKET BLVD	107+12.98	72.06	R				951.00			CBMH 107	1.73%	949.90				64		
PROJECT TOTALS:							20			19.5	44.1				91	465	40	96	5	

CASTING TABULATION				
CITY STD. PLATE NO.	3106	-	2111	3109
ASSEMBLY	R-3067-V	R-3067-C	R-1642	OCS-3109
PROJECT TOTALS	12	1	5	2

PIPE APRON & EROSION CONTROL TABULATION							
	PIPE APRON TYPE			TRASH GUARD FOR PIPE APRON	GEOTEXTILE FILTER TYPE 3	GRANULAR FILTER	RANDOM RIPRAP CL III
STRUCTURE NUMBER	15" RC PIPE APRON	18" RC PIPE APRON	24" RC PIPE APRON	24"			
	EACH	EACH	EACH	EACH	SQ YD	CU YD	CU YD
FES 200	1				20.8	0.3	4.8
FES 201	1				20.8	0.3	4.8
FES 300	1				20.8	0.3	4.8
FES 301	1				20.8	0.3	4.8
FES 302		1			25.6	0.4	6.4
FES 303			1	1			
PROJECT TOTALS	4	1	1	1	108.8	1.6	25.6

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PROJECT NO. 25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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WWW.KIMLEY-HORN.COM

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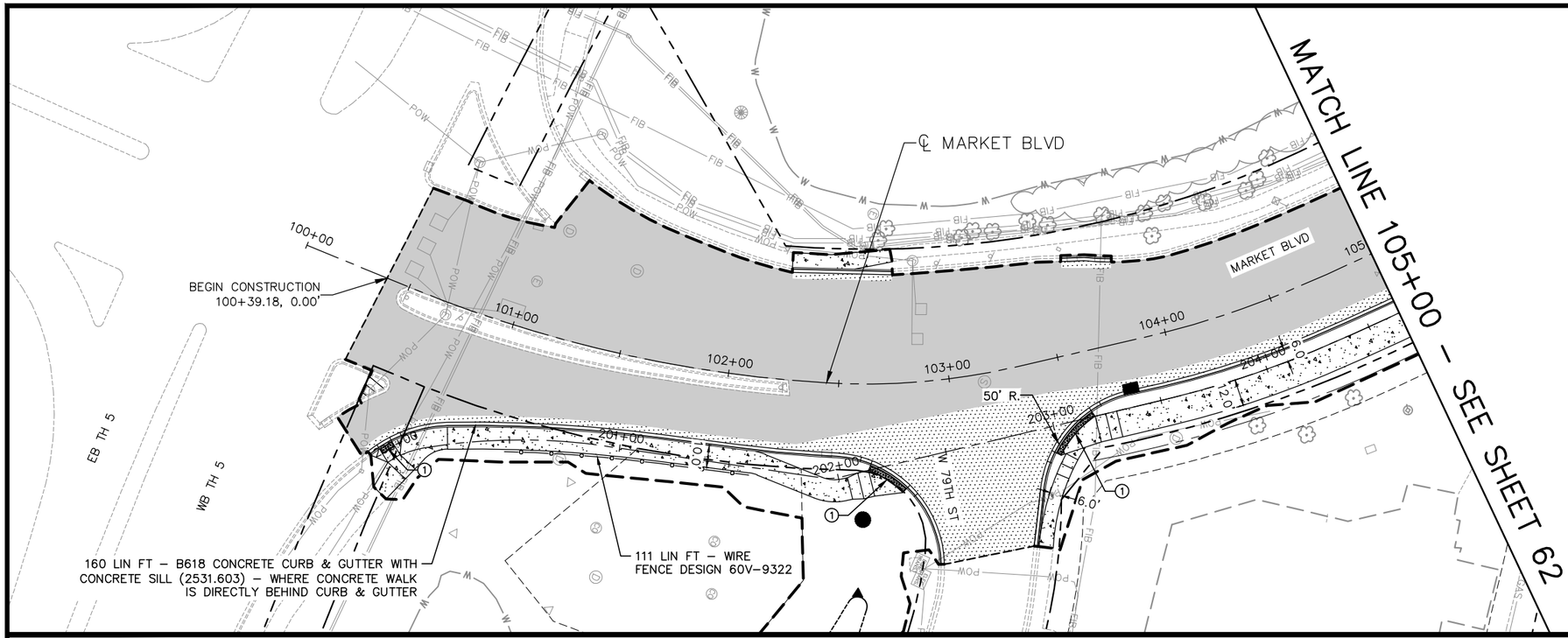
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

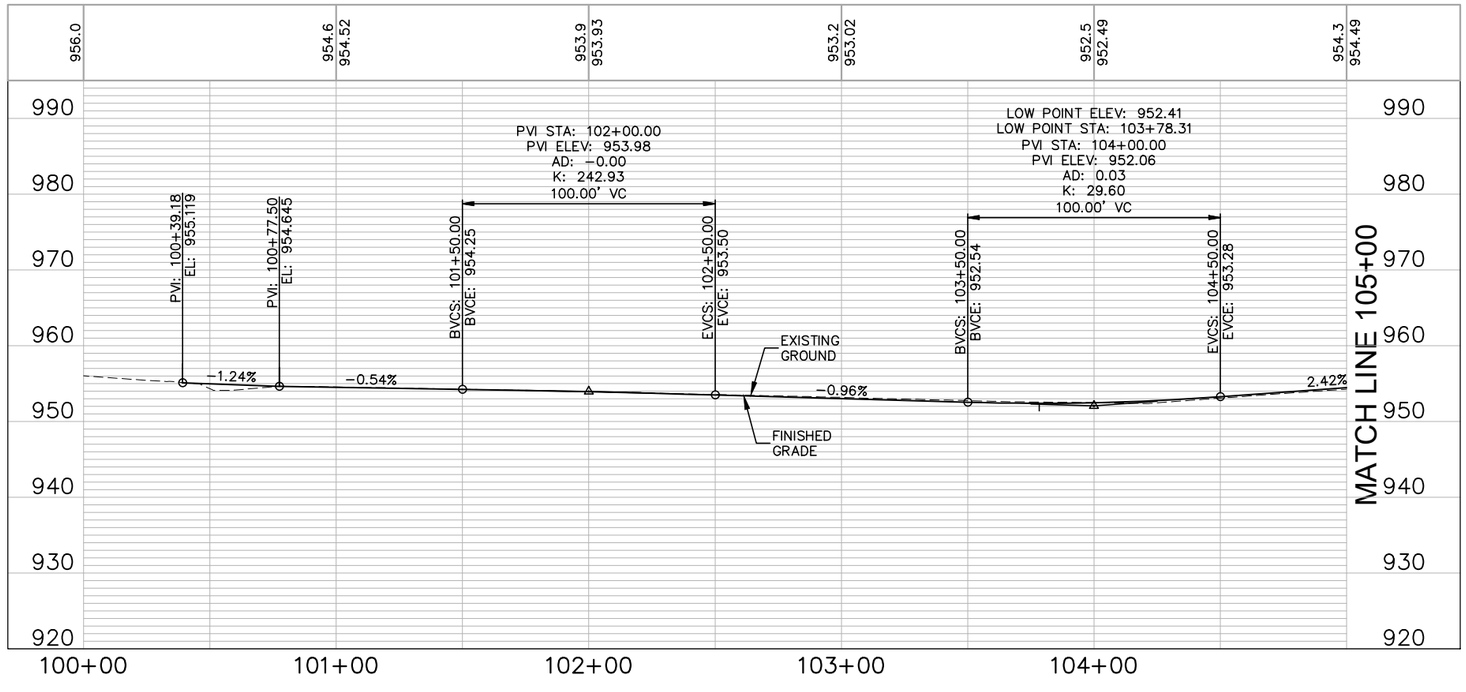
STORM SEWER
DRAINAGE TABULATIONS

CITY PROJECT 25-02
S.A.P. 194-123-002

SHEET NO. 60
169

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LEGEND:

- FULL DEPTH RECONSTRUCTION SEE INSET A – SEE SHEET 22
- FULL DEPTH RECLAMATION SEE INSET B – SEE SHEET 22
- FULL DEPTH RECONSTRUCTION RESIDENTIAL PAVEMENT DEPTH SEE INSET C – SEE SHEET 22
- FULL DEPTH RECLAMATION RESIDENTIAL PAVEMENT DEPTH SEE INSET D – SEE SHEET 22
- CONCRETE DRIVEWAY SEE INSET E – SEE SHEET 22
- BITUMINOUS DRIVEWAY SEE INSET F – SEE SHEET 22
- CONCRETE WALK SEE INSET G – SEE SHEET 22
- CONCRETE MEDIAN SEE INSET H – SEE SHEET 22
- TRUNCATED DOMES
- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- WIRE FENCE DESIGN 60V–9322 (VINYL COATED)
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

① PEDESTRIAN CURB RAMP (SEE INTERSECTION DETAILS)

② B618 CONCRETE CURB & GUTTER (TIP–OUT)

③ B612 CONCRETE CURB & GUTTER (TIP–OUT)

④ CONCRETE APPROACH NOSE (SEE MNDOT STD PLATE NO. 7113A.) – PAID AS 4" CONCRETE WALK

⑤ DESIGN SPECIAL 1 CONCRETE CURB & GUTTER – SEE SHEET 26 FOR DETAILS

⑥ 5' CURB TAPER –SEE SHEET 26 FOR DETAILS

NOTES:

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4. 5' CURB & GUTTER TRANSITION TO BE USED AT ALL TRANSITIONS BETWEEN CURB & GUTTER TYPES. PAID FOR AS B618 CONCRETE CURB & GUTTER. SEE SHEET 26 FOR DETAILS

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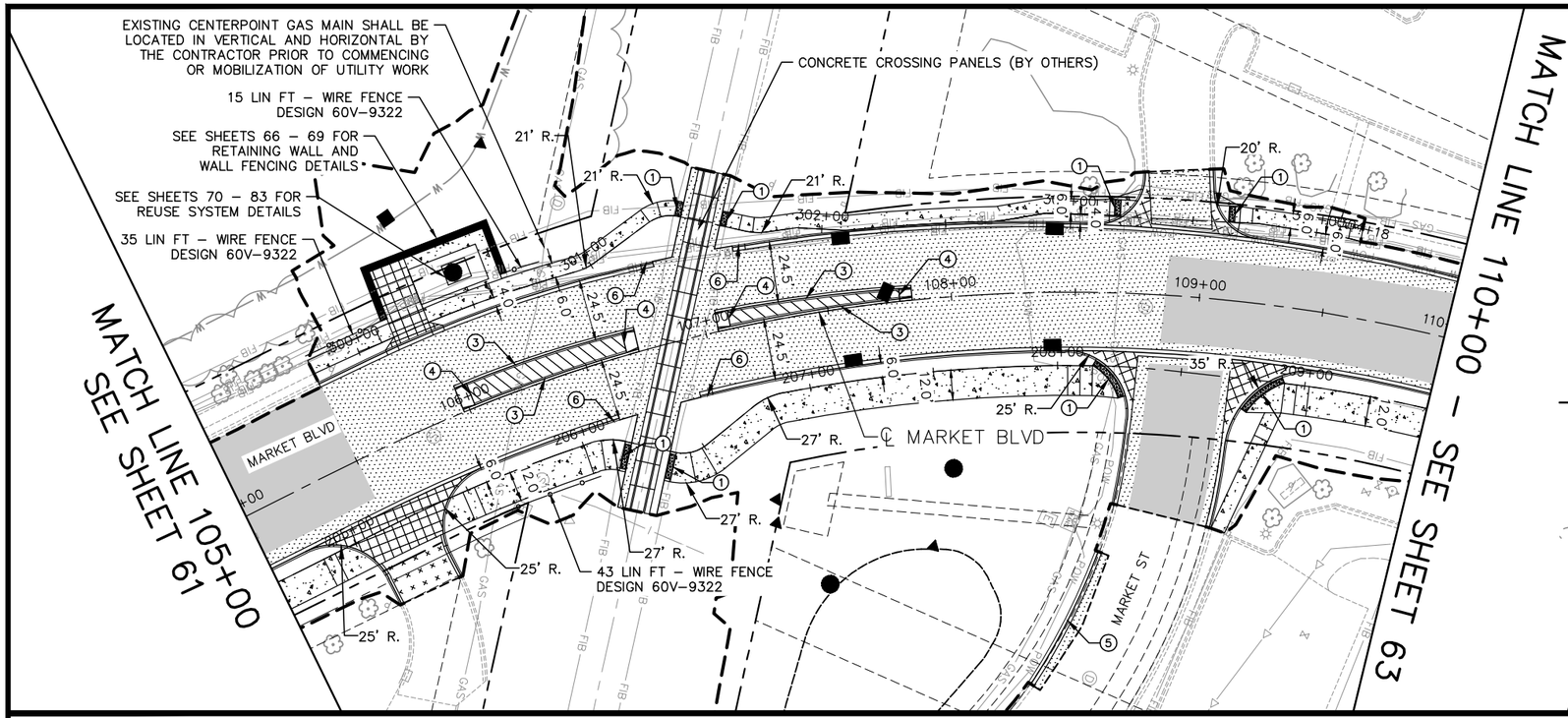
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

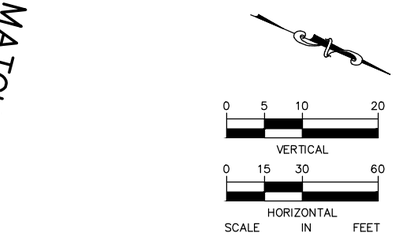
CONSTRUCTION PLAN & PROFILES
MARKET BOULEVARD
STA. 100+00 TO STA. 105+00

CITY PROJECT	25–02
S.A.P.	194–123–002

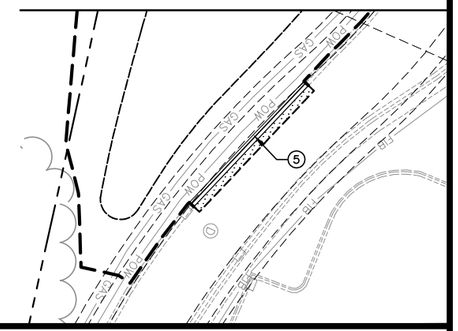
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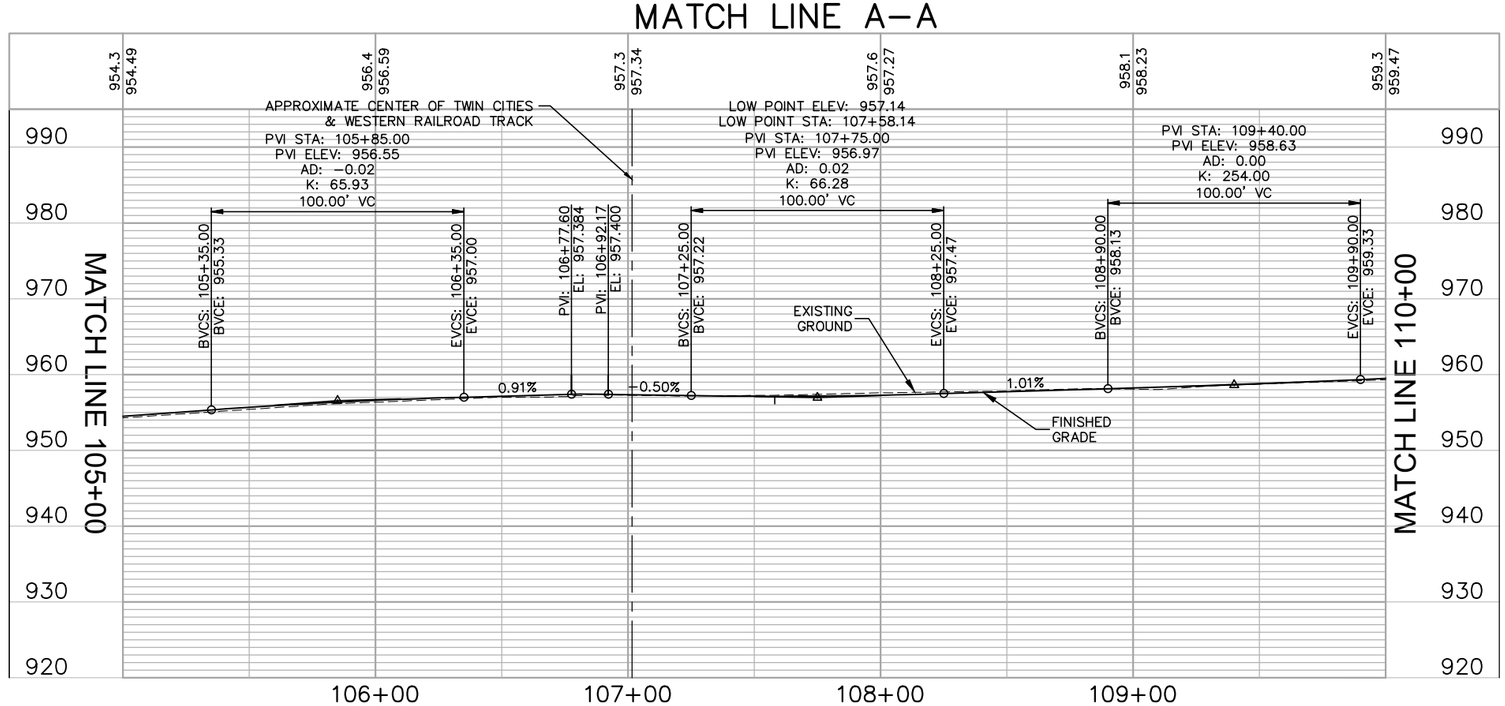




MATCH LINE A–A



MATCH LINE A–A



LEGEND:

- FULL DEPTH RECONSTRUCTION SEE INSET A – SEE SHEET 22
- FULL DEPTH RECLAMATION SEE INSET B – SEE SHEET 22
- FULL DEPTH RECONSTRUCTION RESIDENTIAL PAVEMENT DEPTH SEE INSET C – SEE SHEET 22
- FULL DEPTH RECLAMATION RESIDENTIAL PAVEMENT DEPTH SEE INSET D – SEE SHEET 22
- CONCRETE DRIVEWAY SEE INSET E – SEE SHEET 22
- BITUMINOUS DRIVEWAY SEE INSET F – SEE SHEET 22
- CONCRETE WALK SEE INSET G – SEE SHEET 22
- CONCRETE MEDIAN SEE INSET H – SEE SHEET 22
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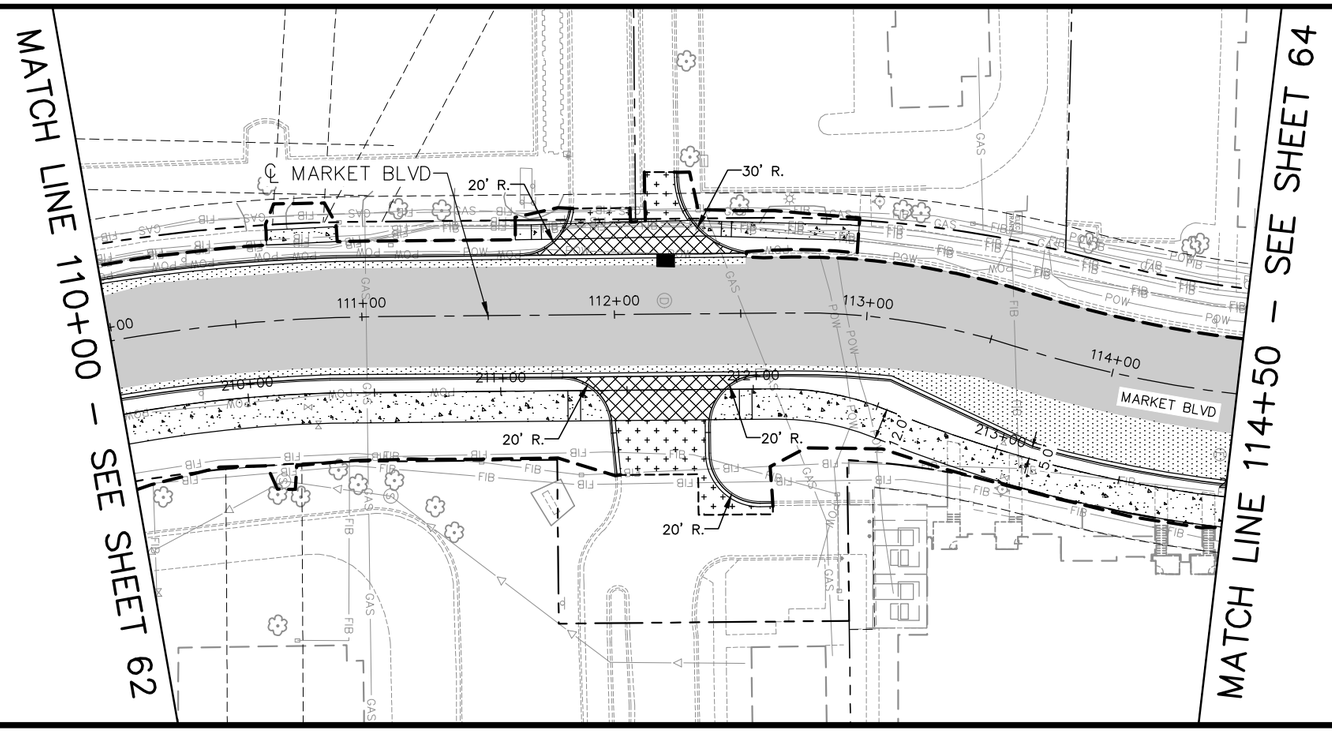
CITY OF CHANHASSEN
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2026 IMPROVEMENTS

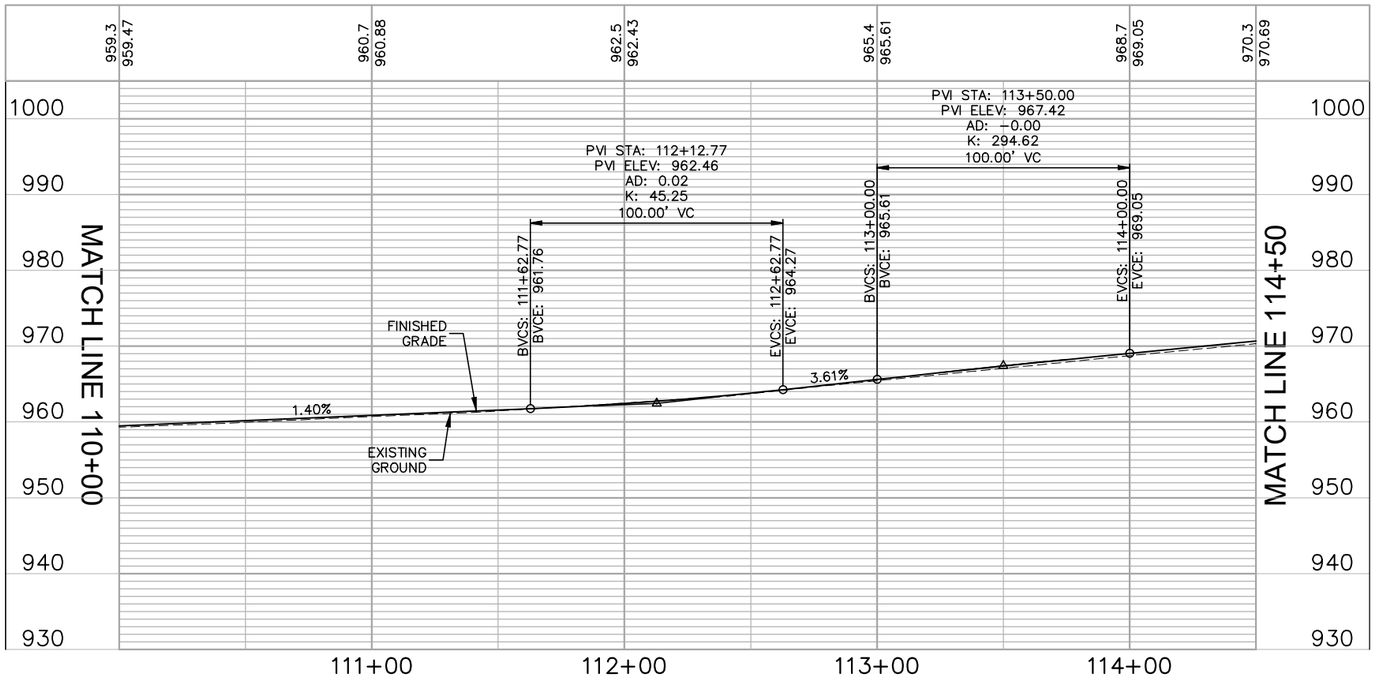
CONSTRUCTION PLAN & PROFILES
MARKET BOULEVARD
STA. 105+00 TO STA. 110+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 62 / 169

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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

LEGEND:

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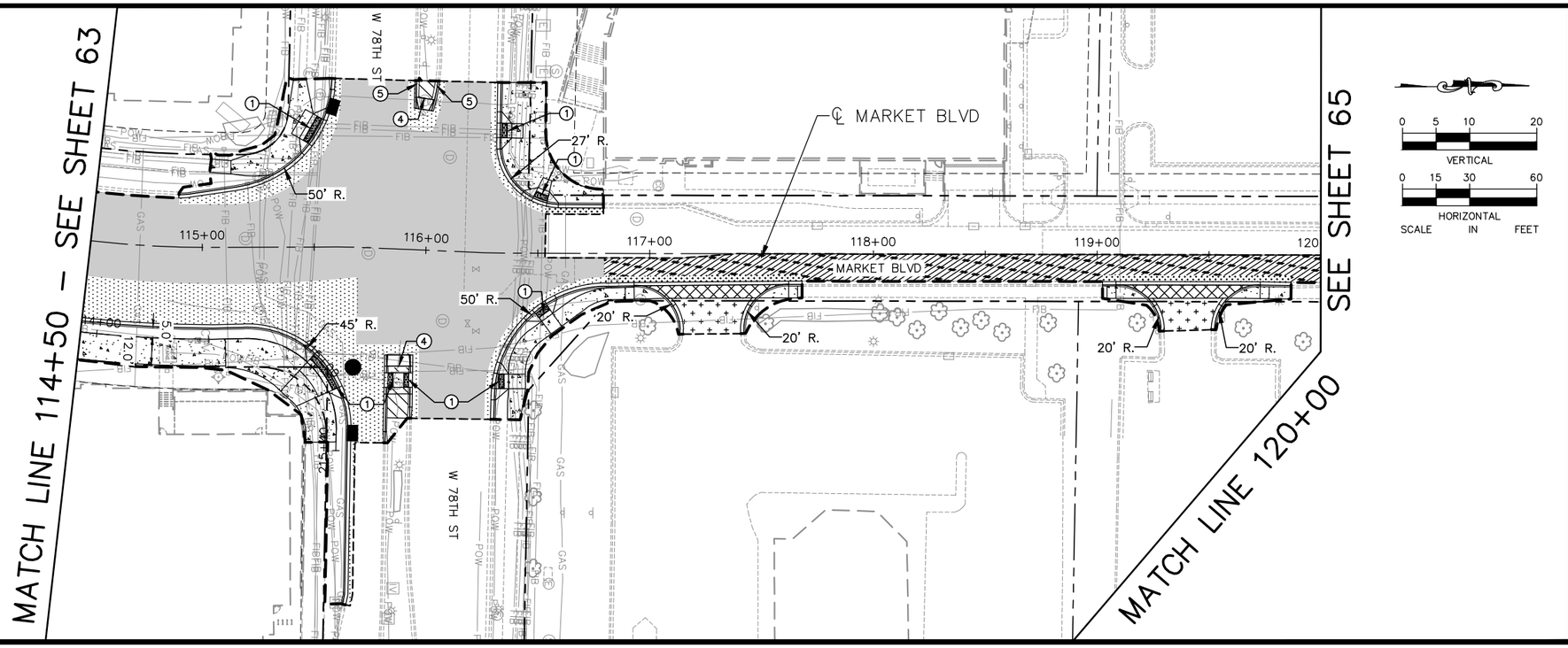
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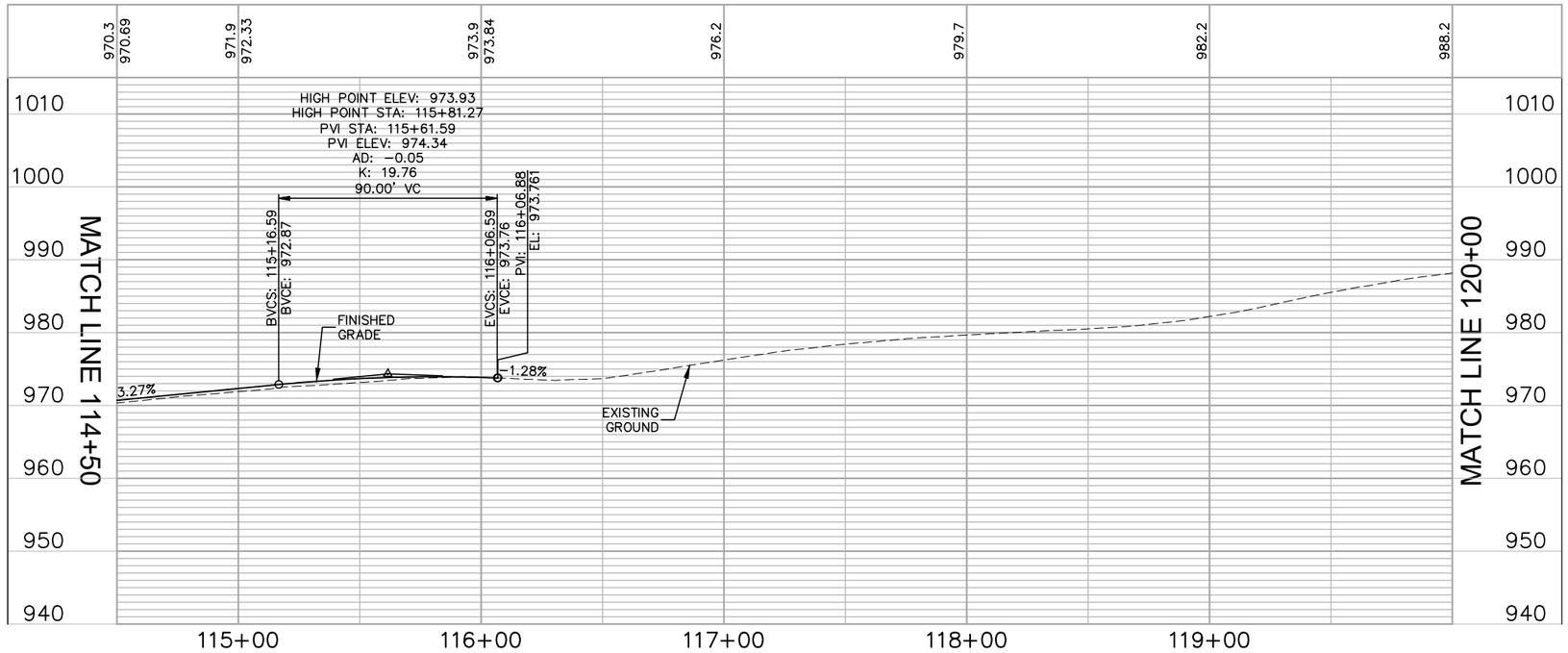
CONSTRUCTION PLAN & PROFILES
MARKET BOULEVARD
STA. 110+00 TO STA. 114+50

CITY PROJECT	25–02
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SHEET NO. 63 / 169

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LEGEND:

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- BITUMINOUS DRIVEWAY SEE INSET F – SEE SHEET 22
- CONCRETE WALK SEE INSET G – SEE SHEET 22
- CONCRETE MEDIAN SEE INSET H – SEE SHEET 22
- TRUNCATED DOMES
- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- WIRE FENCE DESIGN 60V–9322 (VINYL COATED)
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT

SPECIFIC NOTES:

① PEDESTRIAN CURB RAMP (SEE INTERSECTION DETAILS)

② B618 CONCRETE CURB & GUTTER (TIP–OUT)

③ B612 CONCRETE CURB & GUTTER (TIP–OUT)

④ CONCRETE APPROACH NOSE (SEE MNDOT STD PLATE NO. 7113A.) – PAID AS 4" CONCRETE WALK

⑤ DESIGN SPECIAL 1 CONCRETE CURB & GUTTER – SEE SHEET 26 FOR DETAILS

⑥ 5' CURB TAPER –SEE SHEET 26 FOR DETAILS

NOTES:

1. ALL DIMENSIONS ARE SHOWN TO FACE OF CURB, UNLESS NOTED OTHERWISE
2. THE EXACT LOCATION OF UNDERGROUND UTILITES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.
3. ALL PROPOSED CURB & GUTTER IS B618 CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED.
4. 5' CURB & GUTTER TRANSITION TO BE USED AT ALL TRANSITIONS BETWEEN CURB & GUTTER TYPES. PAID FOR AS B618 CONCRETE CURB & GUTTER. SEE SHEET 26 FOR DETAILS

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–PPF.dwg

DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
WWW.KIMLEY–HORN.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL A. KIRSCH
DATE: 2/20/2026 MN LIC. NO. 59057

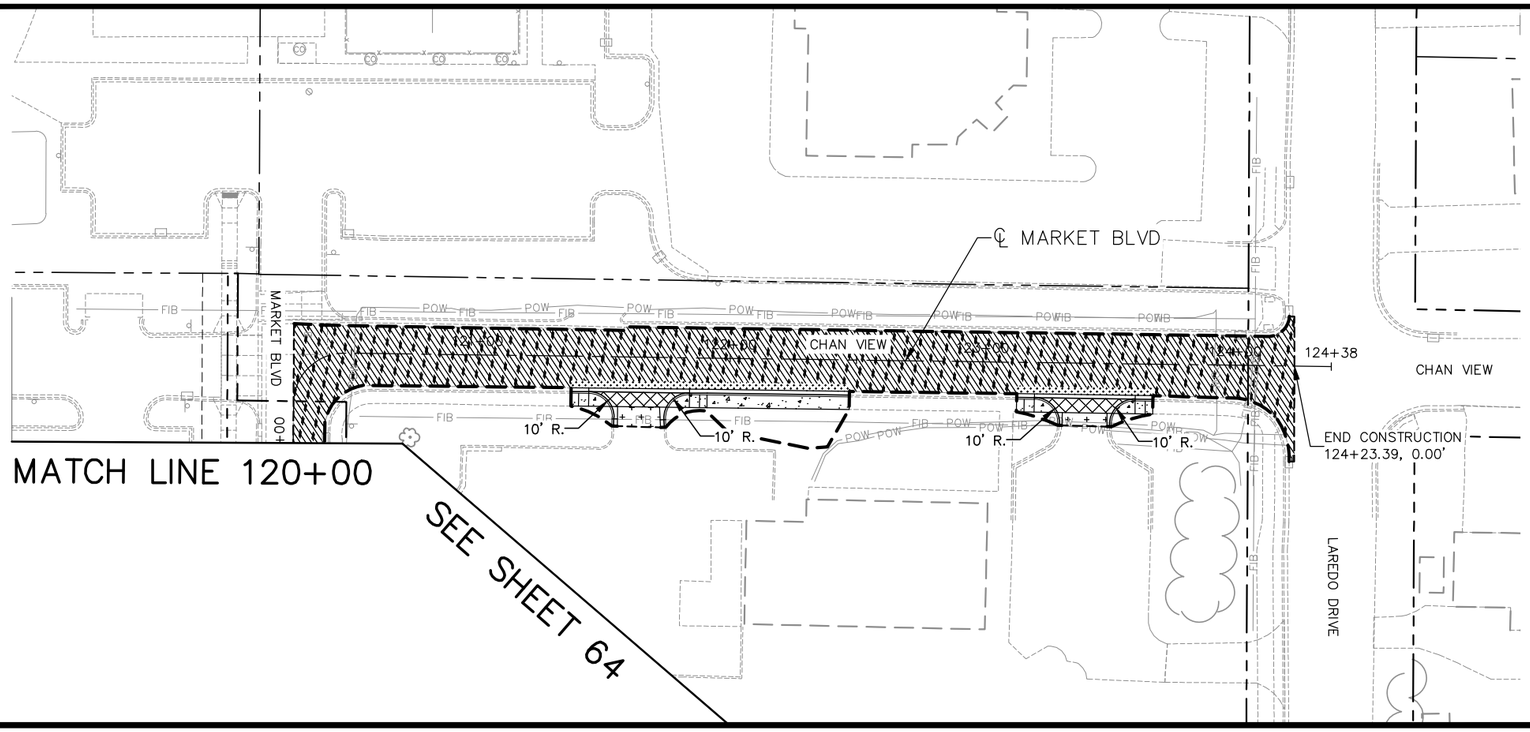
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

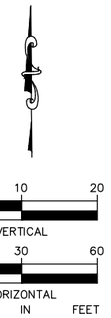
CONSTRUCTION PLAN & PROFILES
MARKET BOULEVARD
STA. 114+50 TO STA. 120+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 64 / 169

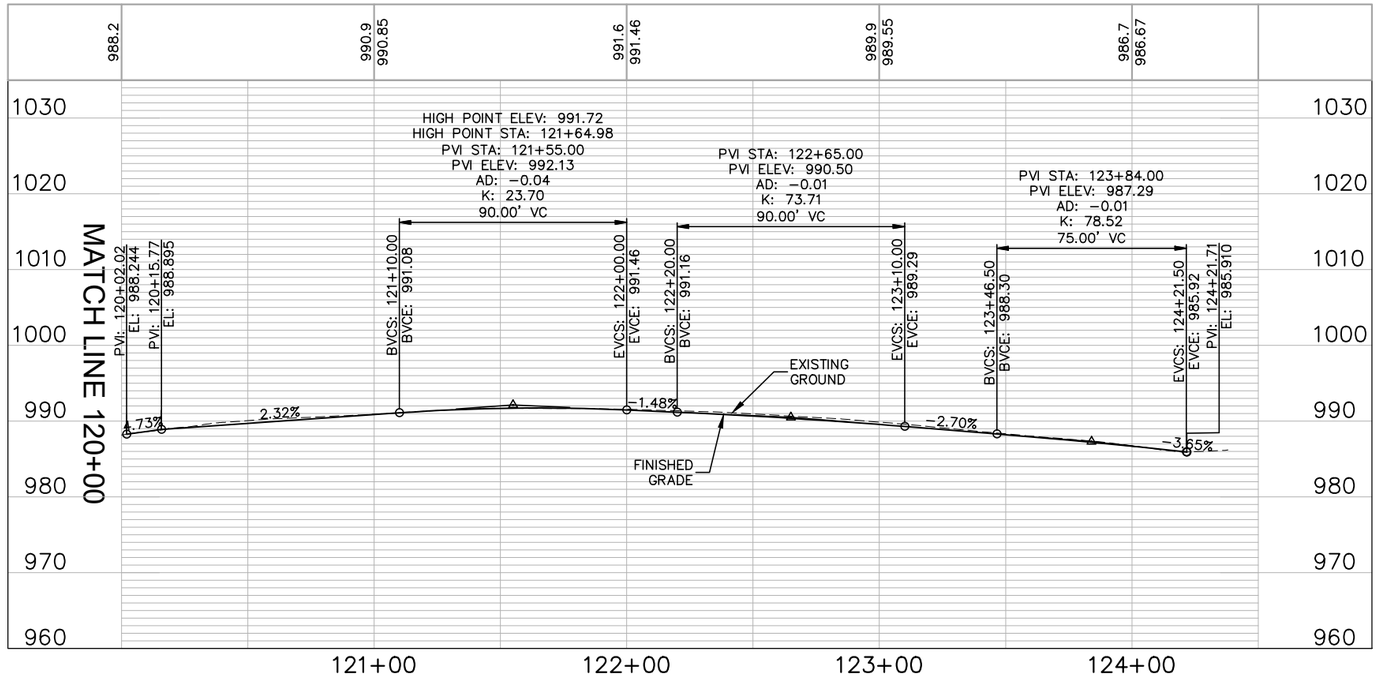
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LEGEND:

- FULL DEPTH RECONSTRUCTION SEE INSET A – SEE SHEET 22
- FULL DEPTH RECLAMATION SEE INSET B – SEE SHEET 22
- FULL DEPTH RECONSTRUCTION RESIDENTIAL PAVEMENT DEPTH SEE INSET C – SEE SHEET 22
- FULL DEPTH RECLAMATION RESIDENTIAL PAVEMENT DEPTH SEE INSET D – SEE SHEET 22
- CONCRETE DRIVEWAY SEE INSET E – SEE SHEET 22
- BITUMINOUS DRIVEWAY SEE INSET F – SEE SHEET 22
- CONCRETE WALK SEE INSET G – SEE SHEET 22
- CONCRETE MEDIAN SEE INSET H – SEE SHEET 22
- TRUNCATED DOMES
- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- WIRE FENCE DESIGN 60V–9322 (VINYL COATED)
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT



SPECIFIC NOTES:

1. PEDESTRIAN CURB RAMP (SEE INTERSECTION DETAILS)
2. B618 CONCRETE CURB & GUTTER (TIP–OUT)
3. B612 CONCRETE CURB & GUTTER (TIP–OUT)
4. CONCRETE APPROACH NOSE (SEE MNDOT STD PLATE NO. 7113A.) – PAID AS 4" CONCRETE WALK
5. DESIGN SPECIAL 1 CONCRETE CURB & GUTTER – SEE SHEET 26 FOR DETAILS
6. 5' CURB TAPER –SEE SHEET 26 FOR DETAILS

NOTES:

1. ALL DIMENSIONS ARE SHOWN TO FACE OF CURB, UNLESS NOTED OTHERWISE
2. THE EXACT LOCATION OF UNDERGROUND UTILITES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.
3. ALL PROPOSED CURB & GUTTER IS B618 CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED.
4. 5' CURB & GUTTER TRANSITION TO BE USED AT ALL TRANSITIONS BETWEEN CURB & GUTTER TYPES. PAID FOR AS B618 CONCRETE CURB & GUTTER. SEE SHEET 26 FOR DETAILS

No.	Date	Revisions	App.

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DESIGNED BY:	MAK
DRAWN BY:	RCH
CHECKED BY:	MAK
DATE:	2/20/2026
PROJECT NO.	25–02

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MICHAEL A. KIRSCH
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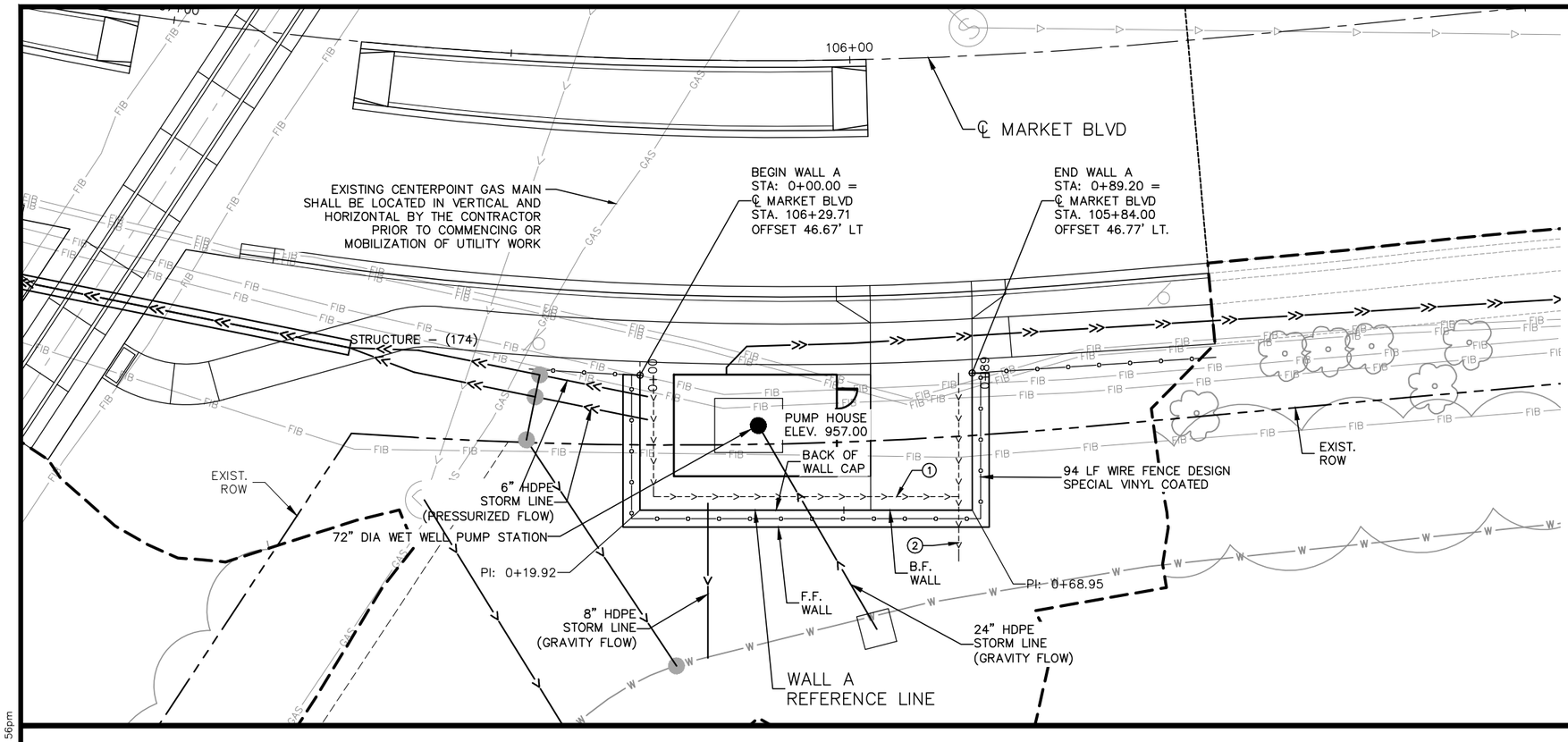
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

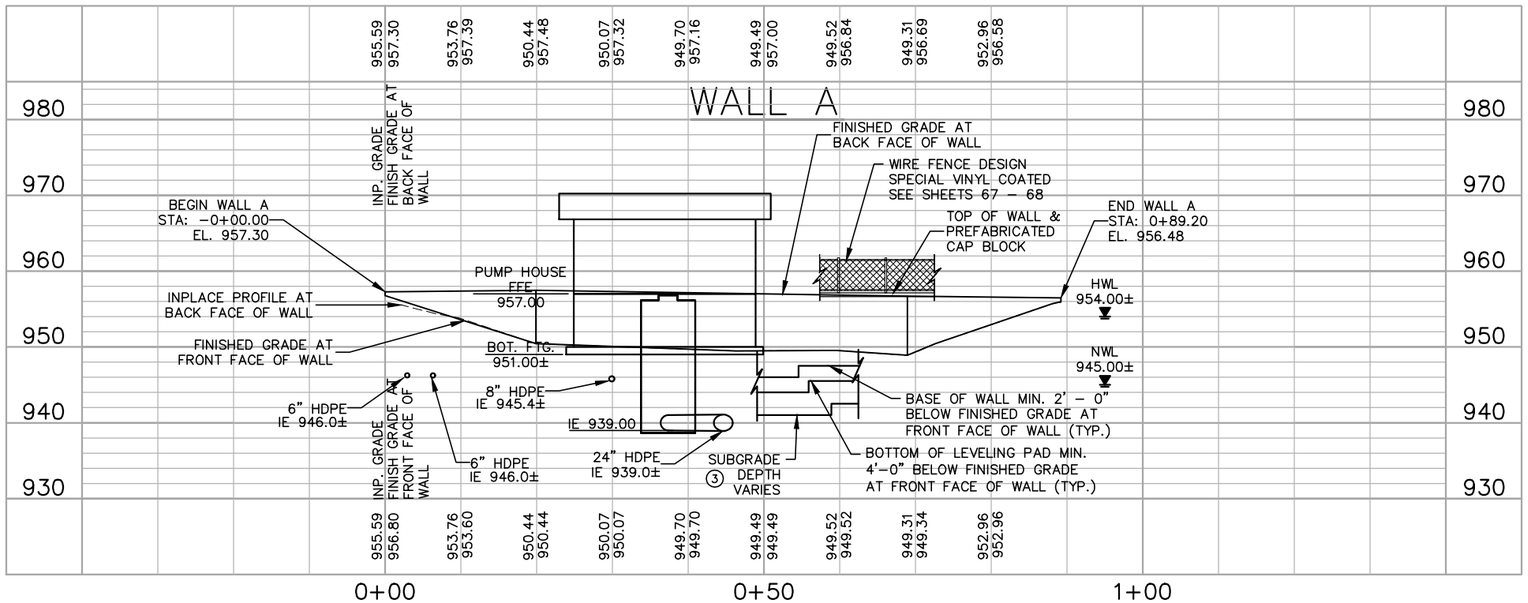
CONSTRUCTION PLAN & PROFILES
MARKET BOULEVARD
STA. 120+00 TO STA. 124+00

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 65 / 169

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GENERAL NOTES:

FINISHED GRADE PROFILES VIEWED FROM FRONT FACE OF WALL

SEE SHEET 69 FOR PREFABRICATED MODULAR BLOCK WALL DETAILS.

SEE SHEET 67 – 68 FOR WIRE FENCE SPECIAL VINYL COATED DETAILS. CONTRACTOR SHALL FIELD VERIFY CONSTRUCTED TOP OF WALL PROFILE AND INCLUDE ELEVATIONS, STEP LOCATIONS, JOINT LOCATIONS AND DIMENSIONS IN SHOP DRAWINGS.

SEE CROSS SECTIONS AND GRADING PLAN FOR PROPOSED SURFACES.

FINISHED GRADE PROFILES: FRONT AND BACK FACE OF WALL ARE SHOWN. THE PREFABRICATED MODULAR BLOCK WALL DESIGN ENGINEER AND MANUFACTURER SHALL PROVIDE BLOCK LAYOUT THAT MEETS THE CRITERIA IN THIS PLAN AND SPECIAL PROVISION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE WALL REFERENCE LINE, ACCOUNTING FOR WALL MANUFACTURER'S BATTER, PMBW BLOCK DIMENSIONS AND CAP BLOCK DIMENSIONS. CONTRACTOR SHALL NOT DECREASE THE SIDEWALK AND DRIVEWAY WIDTH. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND SURVEY PROPOSED WALL REFERENCE LINE ONCE PMBW MANUFACTURER'S SHOP DRAWINGS HAVE BEEN APPROVED.

REFER TO SHEETS 75 TO 83 FOR STORM SEWER AND PIPE INVERTS.

REFER TO SHEET 81 FOR PUMP HOUSE DETAILS AND REQUIREMENTS.

DEWATERING FOR WALL CONSTRUCTION SHALL BE INCIDENTAL. SEASONAL AND ANNUAL FLUCTUATIONS OF GROUNDWATER LEVEL SHOULD BE ANTICIPATED

① 4" PERF PIPE DRAIN. APPROXIMATE LOCATION OF PMBW RETAINING WALL DRAINAGE SYSTEM. PMBW WALL SUPPLIER TO REVIEW AND INCLUDE ALL DRAINAGE SYSTEMS AND LOCATIONS IN SHOP DRAWINGS.

② 4" NON–PERF PIPE DRAIN THROUGH PMBW WALL WITH PRECAST HEADWALL PER STANDARD PLATE NO. 3131. ALL WORK AND MATERIALS ASSOCIATED WITH CONSTRUCTING THE 4" PIPE DRAIN IS INCLUDED IN THE BID ITEM "PREFABRICATED MODULAR BLOCK WALL".

③ SUBCUT DEPTH ASSUMED TO BE 3 FEET OR THROUGH THE FILL SECTION, WHICHEVER IS LESS. A GEOTECHNICAL REPRESENTATIVE UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER, SHOULD OBSERVE SUBCUT, FILL PLACEMENT AND PERFORM TESTING. FOUNDATION PLACEMENT SHALL INCLUDE VISUAL INSPECTION OF FOUNDATION SUBGRADE SOILS WITH HAND AUGERS, PROBES OR DCP TESTS AS NECESSARY TO EVALUATE THE SOILS.

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–RTW.dwg	
DESIGNED BY:	RJG
DRAWN BY:	RJG
CHECKED BY:	BLF
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
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BRIAN FLEMING, PE
DATE: 2/20/2026 MN LIC. NO. 49486

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

WALL A
PLAN AND PROFILE

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 66 / 169

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GENERAL NOTES:

UTILITIES:
EXISTING AND PROPOSED UTILITIES ARE SHOWN IN THE GRADING PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING FACILITIES AND SHALL EXERCISE CARE IN ADJACENT CONSTRUCTION.

EXCAVATION AND BACKFILL LIMITS:
PAY ITEMS FOR UNIT PRICE BID PROJECTS ARE SHOWN IN THE SECTIONS. EXCAVATION AND BACKFILL PER THE PLANS AND SPECIFICATIONS FOR RETAINING WALL CONSTRUCTION IS INCIDENTAL. ACTUAL EXCAVATION SLOPE IS DETERMINED BY OSHA REGULATIONS AND IN-SITU SOILS: EXCAVATIONS BEYOND THE SLOPES SHOWN ARE AT THE CONTRACTOR'S EXPENSE.

EXCAVATION AND EARTHWORK:
ALL EXCAVATION AND EMBANKMENT WORK SHALL CONFORM TO MnDOT 2451.

CONSTRUCTION:
CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPEC. 2411, EXCEPT AS NOTED.

COMPACTION REQUIREMENTS:
COMPACT REINFORCED WALL FILL IN ACCORDANCE WITH THE SPECIAL PROVISIONS UNLESS RECOMMENDED OTHERWISE BY THE SOILS ENGINEER.

COMPACT GRANULAR BEDDING IN ACCORDANCE WITH THE SPECIAL PROVISIONS UNLESS RECOMMENDED OTHERWISE BY THE SOILS ENGINEER.

NOTES TO THE CONTRACTOR:

ARCHITECTURAL SURFACE FINISH SHALL BE APPLIED TO EXPOSED SURFACE OF PREFABRICATED MODULAR BLOCK RETAINING WALL, INCLUDING 2'-0" BELOW FINISHED GRADE ON FRONT FACE, TOP AND SIDES OF CAP BLOCK AND TO BOTTOM OF TEXTURED BLOCK ON BACKFACE OF WALL. ALL WORK AND MATERIALS ASSOCIATED WITH CONSTRUCTING THE ARCHITECTURAL SURFACE FINISH ARE INCLUDED IN THE BID ITEM "PREFABRICATED MODULAR BLOCK WALL".

PROVIDE DETAILED DRAWINGS FOR CONSTRUCTION CONTAINING:

1. ELEVATION VIEW WITH REINFORCEMENT PLACEMENT REQUIREMENTS, WALL FACING LAYOUT, AND GEOMETRIC INFORMATION. TOP WALL BLOCK MAY EXTEND UP TO 2" MIN. ABOVE FINISHED GRADE AT BACK FACE OF WALL.
2. PLAN VIEW WITH BOTTOM AND TOP OF WALL ALIGNMENT, LEVELING PAD THICKNESS AND ALIGNMENT, AND PLAN LIMITS OF WALL ALIGNMENT.
3. CROSS SECTIONS DETAILING BATTER, REINFORCEMENT, VERTICAL SPACING, REINFORCEMENT LENGTHS, SUBSURFACE DRAINAGE, SURFACE DRAINAGE, AND WATER RUNOFF COLLECTION ABOVE WALL.
4. NOTE BLOCK, FILL PLACEMENT METHODS AND REQUIREMENTS.
5. DETAIL ALL WALL FILL PENETRATIONS AND WALL FACE PENETRATIONS. DETAIL WALL FACING UNIT PLACEMENT AROUND PENETRATIONS.
6. DETAILS THAT ARE SPECIFIC TO VENDOR PRODUCTS AND THEIR INTERACTION WITH OTHER PROJECT COMPONENTS.
7. DETAILS OF CAP BLOCKS AND INSTALLATION INSTRUCTIONS FOR THE CAPS. CAP BLOCKS TO HAVE ARCHITECTURAL TEXTURE ON TOP, SIDES, AND END FACES.
8. DETAILS OF THE RAILING BASE PLATE CONNECTION TO THE CAP BLOCK, INCLUDING DETAILS FOR THE TYPE, SIZE, AND MANUFACTURER OF THE ADHESIVE ANCHOR.
9. CERTIFICATION BY PROFESSIONAL ENGINEER THAT THE CONSTRUCTION LAYOUT MEETS THE REQUIREMENTS OF PLANS AND SPECIFICATIONS.
10. PREFABRICATED MODULAR BLOCK RETAINING WALL TO HAVE THE FOLLOWING ARCHITECTURAL TEXTURE AND FINISH:
    - 10.1 ARCHITECTURAL CONCRETE TEXTURE
      - 10.1.1 LEDGESTONE – REDI ROCK RETAINING WALL SYSTEMS
      - 10.1.2. OR APPROVED EQUAL BY THE OWNER
    - 10.2 ARCHITECTURAL SURFACE FINISH (MULTI COLOR)
      - 10.2.1. TAN COLOR SYSTEM (WITH TWO HIGHLIGHTS)
11. PREFABRICATED MODULAR BLOCK RETAINING WALL CAP BLOCKS TO HAVE THE FOLLOWING ARCHITECTURAL FINISH:
    - 11.1. ARCHITECTURAL SURFACE FINISH (SINGLE COLOR)
      - 11.1.1. [AMS-STD-595A COLOR NO. 33531 (SAND)].

DESIGN CRITERIA:

DESIGN CRITERIA FOLLOWS THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, LATEST, WITH ALL INTERIMS. DESIGN CRITERIA ARE IN ACCORDANCE WITH MnDOT POLICY, AS RECORDED IN THE MnDOT ROAD DESIGN MANUAL. SEE SPECIAL PROVISIONS FOR SPECIFIC DESIGN CRITERIA.

ALL DESIGN AND MATERIALS SHALL CONFORM TO REQUIREMENTS IN THE SPECIAL PROVISIONS.

NOTES:

(1) LOCATION OF WALL REFERENCE LINE VARIES FOR EACH WALL. WALL ALIGNMENT AND REFERENCE LINE MAY BE LOCATED AT FRONT FACE OF WALL OR BACK FACE OF WALL CAP. REFER TO THE PLAN AND PROFILE SHEETS FOR MINIMUM REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY THE WALL REFERENCE LINE, ACCOUNTING FOR WALL MANUFACTURER'S BATTER, PMBW BLOCK DIMENSIONS, AND CAP BLOCK DIMENSIONS. CONTRACTOR SHALL NOT DECREASE THE TRAIL WIDTH OR TRAIL SHOULDER WIDTH. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND SURVEY PROPOSED WALL REFERENCE LINE ONCE PMBW MANUFACTURER'S SHOP DRAWINGS HAVE BEEN APPROVED.

(2) ALL EXPOSED FACES OF PREFABRICATED MODULAR BLOCKS SHALL BE TEXTURED, SEE SPECIAL PROVISIONS.

(3) EXCAVATION – COMMON PAY LIMITS (2V:1H). ACTUAL EXCAVATION SLOPE IS DETERMINED BY OSHA REGULATIONS AND IN-SITU SOILS: EXCAVATION BEYOND THESE LIMITS AT CONTRACTOR'S EXPENSE.

(4) THE WRAP LENGTH FOR GEOTEXTILE FABRIC SHALL NOT BE MORE THAN 6".

(5) 4" THERMOPLASTIC PERFORATED PIPE, SPEC. (3245, ASTM F667 or ASTM F949). WRAP WITH TYPE 1 GEOTEXTILE, SPEC. 3733, INSTALLATION AS PER SPEC. 2502. CONNECT TO DRAINAGE SYSTEM OR OUTLET THROUGH WALL USING 4" T.P. NON-PERFORATED PIPE WITH PRECAST HEADWALL AND RODENT SCREEN (STD. PLATE 3131). ALL WORK AND MATERIALS ASSOCIATED WITH CONSTRUCTING THE 4" DRAINS ARE INCLUDED IN THE BID ITEM "PREFABRICATED MODULAR BLOCK WALL".

(6) 1'-0" MIN. DRAINAGE ZONE, COARSE AGGREGATE, SPEC. 3149.2.H.

(7) TOP OF WALL BLOCK MAY EXTEND UP TO 2" MIN. ABOVE FINISHED GRADE AT BACK FACE OF WALL.

(8) PREFABRICATED CAP BLOCK DIMENSIONS MAY VARY BY MANUFACTURER. THIS PLAN ASSUMES A 2'-6" WIDE X 6" THICK CAP. PREFABRICATED CAP BLOCK SHALL HAVE A MAXIMUM CAP THICKNESS OF 9".

(9) CLEAN AND APPLY 1½" THICK X 3" DIA. BEAD OF ADHESIVE TO TOP COURSE PRIOR TO PLACING CAP BLOCK. ADHESIVE SHALL WITHSTAND MOISTURE AND TEMPERATURE CHANGES, REMAIN FLEXIBLE, AND BE SPECIFICALLY FORMULATED FOR BONDING MASONRY TO MASONRY. ALL WORK AND MATERIALS ASSOCIATED WITH CONSTRUCTING THE ADHESIVE FOR THE CAP BLOCKS ARE INCLUDED IN THE BID ITEM "PREFABRICATED MODULAR BLOCK WALL".

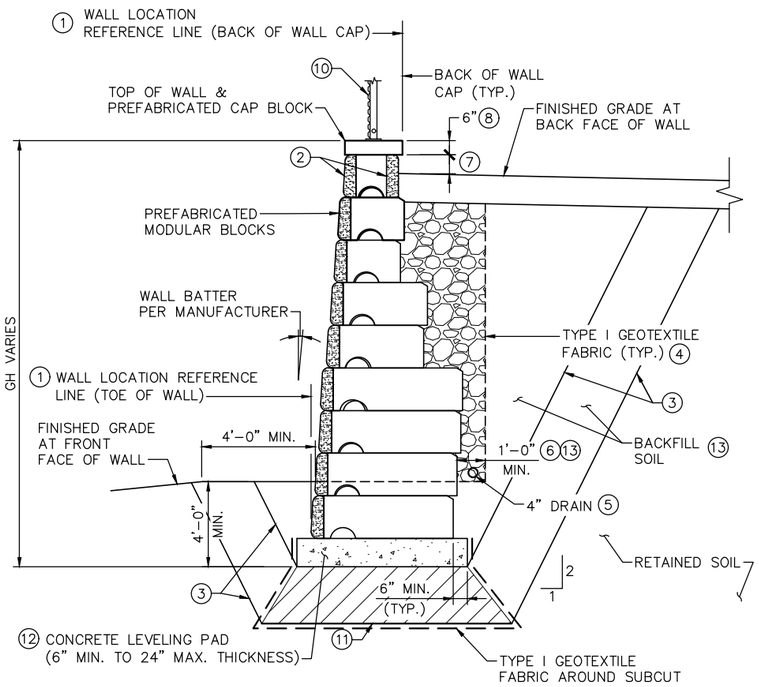
(10) SEE WALL PLAN AND PROFILE SHEETS FOR TOP OF WALL FALL PROTECTION REQUIREMENTS. FALL PROTECTION SHALL BE MOUNTED TO TOP OF WALL UNLESS NOTED OTHERWISE.

(11) FILL BELOW LEVELING PAD SHALL BE AGGREGATE BEDDING PER SPEC 3149.2.G. COMPACT PER REQUIREMENTS OF SPEC 2451 AND 2106. A GEOTECHNICAL REPRESENTATIVE, UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER, SHOULD OBSERVE FILL PLACEMENT AND PERFORM TESTING. FOUNDATION PREPARATION SHALL INCLUDE VISUAL INSPECTION OF FOUNDATION SUBGRADE SOILS WITH HAND AUGERS PROBES AND DCP TESTS AS NECESSARY TO EVALUATE THE SOILS.

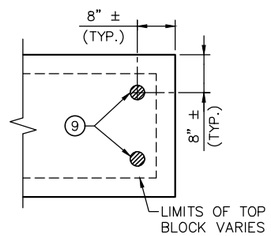
(12) CONCRETE LEVELING PAD SHOWN IN DETAILS, SEE SPECIAL PROVISIONS FOR COMPOSITE LEVELING PAD DETAILS. WALL SUPPLIER AND CONTRACTOR ARE RESPONSIBLE FOR DETERMINING COMPOSITE LEVELING PAD DRAINAGE SYSTEM, OUTLET LOCATIONS, AND TIE-IN LOCATIONS. DETAILS SHALL BE INCLUDED IN SHOP DRAWINGS.

(13) THE RETAINING WALL DESIGNER IS RESPONSIBLE FOR CONSIDERING BOTH HIGH WATER AND NORMAL WATER ELEVATIONS IN THE DESIGN OF THE RETAINING WALL SYSTEM. THIS INCLUDES EVALUATING INCREASED PORE WATER PRESSURES, SEEPAGE FORCES, AND INCREASED LATERAL EARTH PRESSURES DURING HIGH WATER CONDITIONS. ADDITIONALLY, THE STRUCTURAL BACKFILL MUST BE APPROPRIATELY SELECTED AND COMPACTED TO WITHSTAND BOTH WATER CONDITIONS, ENSURING THE OVERALL STABILITY AND INTEGRITY OF THE RETAINING WALL.

(14) THE RETAINING WALL DESIGNER MUST COORDINATE WITH THE CUSTOM PRE-FABRICATED CONCRETE MASONRY PUMP HOUSE SUPPLIER TO OBTAIN ACTUAL FOUNDATION ELEVATION AND PRESSURES. THESE FACTORS, ALONG WITH VEHICULAR LIVE LOADS, MUST BE TAKEN INTO CONSIDERATION FOR THE RETAINING WALL DESIGN



TYPICAL SECTION THRU PREFABRICATED MODULAR BLOCK RETAINING WALL (14)
(WITHOUT REINFORCEMENT)



PARTIAL PLAN VIEW – CAP BLOCK
(BOTTOM OF CAP SHOWN)

No.	Date	Revisions	App.

DRAWING NAME: 2026-MARKET-RTW-DTL.dwg
DESIGNED BY: RJG
DRAWN BY: RJG
CHECKED BY: BLF
DATE: 2/20/2026
PROJECT NO. 25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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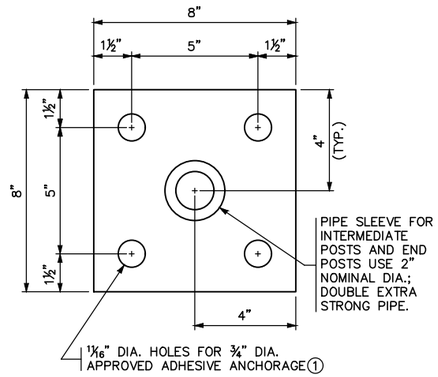
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

RETAINING WALL
GENERAL NOTES AND DETAILS

CITY PROJECT 25-02
S.A.P. 194-123-002

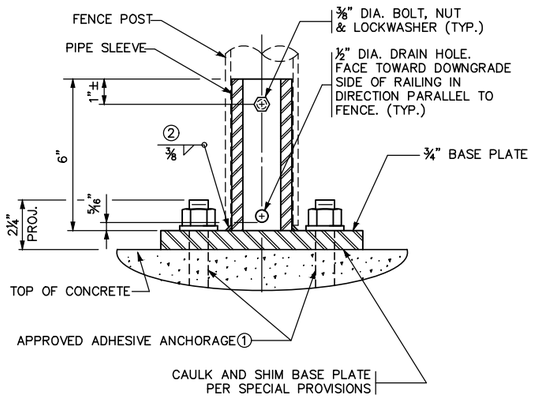
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PLAN VIEW – TYPE A

ESTIMATED WEIGHT = 18 LBS.



TYPICAL SECTION

NOTES:

ALL PIPE DIAMETERS ARE NOMINAL.

SEE SPECIAL PROVISIONS FOR REQUIREMENTS NOT INCLUDED ON THIS SHEET.

STRUCTURAL STEEL PER SPEC. 3306

STRUCTURAL PIPE PER SPEC. 3362

GALVANIZE THE FENCE POST ANCHORAGE AFTER FABRICATION PER SPEC. 3394.

GALVANIZE THE FASTENERS PER SPEC. 3392.

FURNISHING AND INSTALLING FENCE POST ANCHORAGES IS INCIDENTAL TO THE WIRE FENCE.

(1) ADHESIVE ANCHORAGE WITH ¾" DIA. ANCHOR ROD PER SPEC. 3385, TYPE A WITH HEX NUT AND WASHER. PROVIDE AN ADHESIVE WITH A MINIMUM CHARACTERISTIC BOND STRENGTH IN UNCRACKED CONCRETE OF 1.5 KSI. EMBED THE ANCHORAGE NO LESS THAN 5" REGARDLESS OF CHARACTERISTIC BOND STRENGTH. DRILL THROUGH REINFORCEMENT (IF ENCOUNTERED) TO ACHIEVE MINIMUM EMBEDMENT. ENSURE HEX NUT IS IN CONTACT WITH THE ADJACENT SURFACE AND TORQUE TO 60 FT–LBS UNLESS A HIGHER TORQUE IS RECOMMENDED BY THE MANUFACTURER. PROOF LOAD TO 7.8 KIPS. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

(2) E70X ELECTRODES FOR ⅜" POST TO BASE PLATE WELD.

DOUBLE EXTRA STRONG PIPE WEIGHTS;
2" NOMINAL DIA. = 9.03 LBS./FT.

APPROVED: JANUARY 05, 2017 Kevin Western STATE BRIDGE ENGINEER	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION FENCE POST ANCHORAGE (TYPE A)	REVISION	DETAIL NO. B905

No.	Date	Revisions	App.

DRAWING NAME	2026–MARKET–RTW–DTL.dwg
DESIGNED BY:	RJG
DRAWN BY:	RJG
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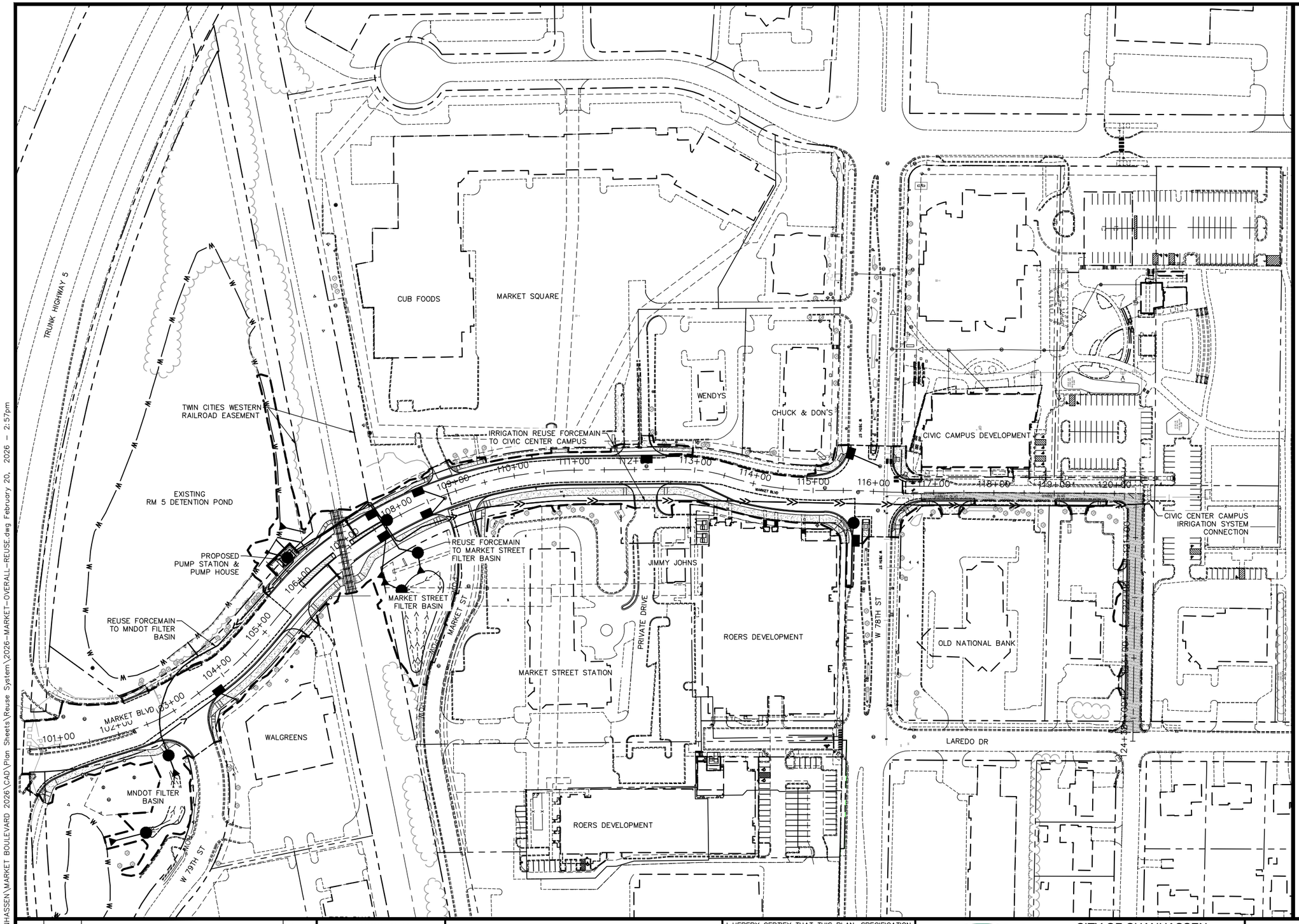
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

RETAINING WALL
FENCE POST ANCHORAGE
DETAIL

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 69 / 169

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LEGEND:

- BITUMINOUS ROADWAY
- 6" CONCRETE MEDIAN
- 6" CONCRETE SIDEWALK
- BITUMINOUS TRAIL
- TRUNCATED DOMES
- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- REUSE FORCE MAIN
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER

NOTES:
1. ALL DIMENSIONS ARE SHOWN TO FACE OF CURB, UNLESS NOTED OTHERWISE
2. THE EXACT LOCATION OF UNDERGROUND UTILITES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.

GRAPHIC SCALE IN FEET
0 40 80 160

No.	Date	Revisions	App.

DRAWING NAME	2026-MARKET-OVERALL-REUSE.dwg
DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

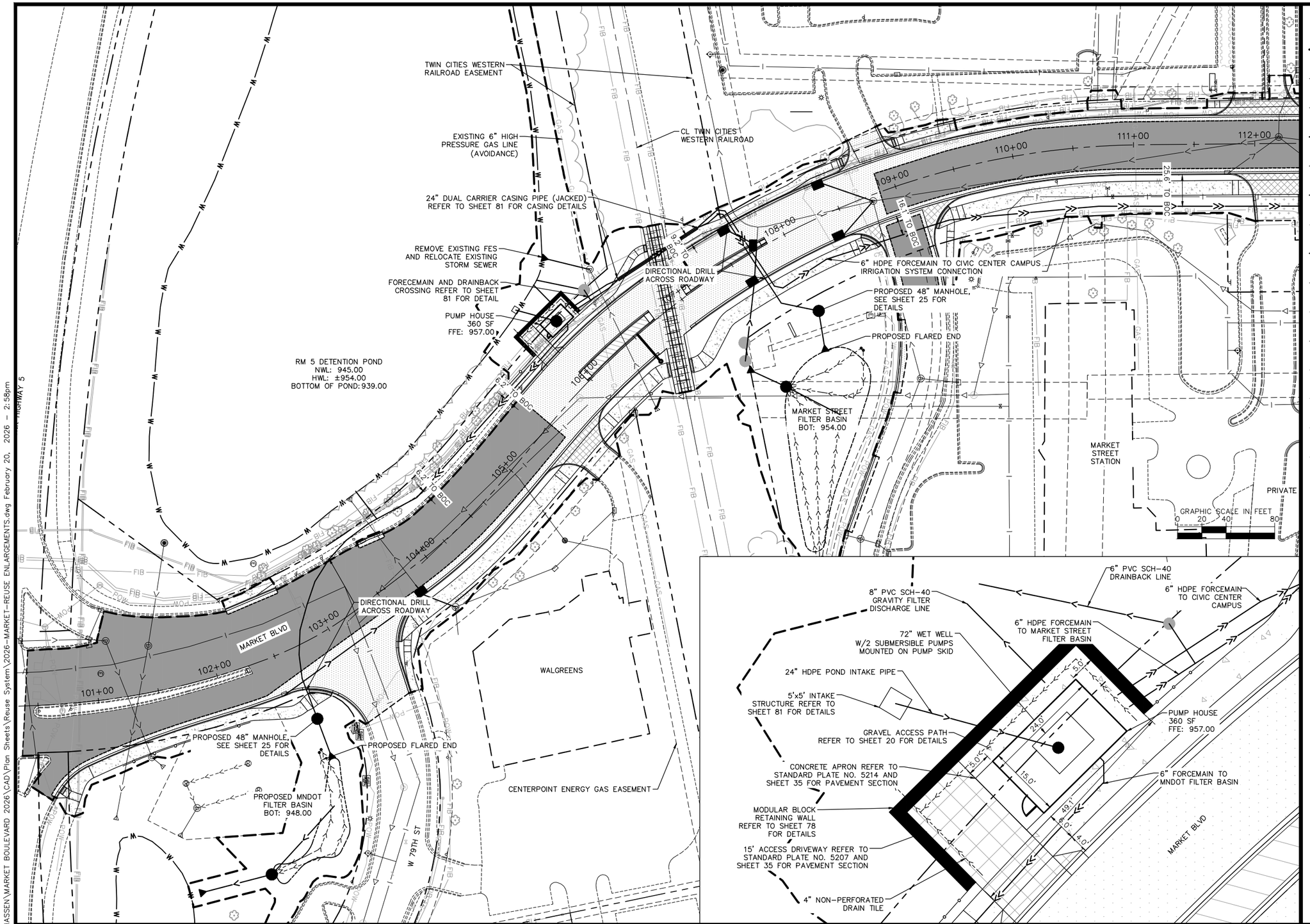
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
OVERALL LAYOUT

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 70 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\Reuse System\2026-MARKET-OVERALL-REUSE.dwg February 20, 2026 - 2:57pm



LEGEND:

- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- REUSE FORCE MAIN
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- FIB — EXISTING FIBER
- POW — EXISTING POWER
- GAS — EXISTING GAS MAIN

NOTES:
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No.	Date	Revisions	App.

DRAWING NAME	
2026-MARKET-REUSE ENLARGEMENTS.dwg	
DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
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MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM LAYOUT

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 71 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\Reuse System\2026-MARKET-REUSE ENLARGEMENTS.dwg February 20, 2026 - 2:58pm

WENDYS

CHUCK & DON'S

CIVIC CAMPUS DEVELOPMENT

W 78TH ST

MARKET BLVD

113+00

114+00

115+00

116+00

117+00

118+00

119+00

120+00

23' BOC TO BOC

5.0'

5.8' TO BOC

6.7' TO BOC

7.4' TO BOC

DIRECTIONAL DRILL ACROSS ROADWAY

6" HDPE REUSE FORCEMAIN TO CIVIC CENTER CAMPUS

POINT OF CONNECTION TO IRRIGATION REUSE MAINLINE
REFER TO CHANHASSEN CIVIC CAMPUS PLANS

CHAN VIEW

JIMMY JOHNS

ROERS DEVELOPMENT

OLD NATIONAL BANK

122+00

123+00

124+00

124+38

LAREDO DR

LEGEND:

- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- REUSE FORCE MAIN
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- FIB — EXISTING FIBER
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- GAS — EXISTING GAS MAIN

NOTES:

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GRAPHIC SCALE IN FEET
0 20 40 80

No.	Date	Revisions	App.

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DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
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MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

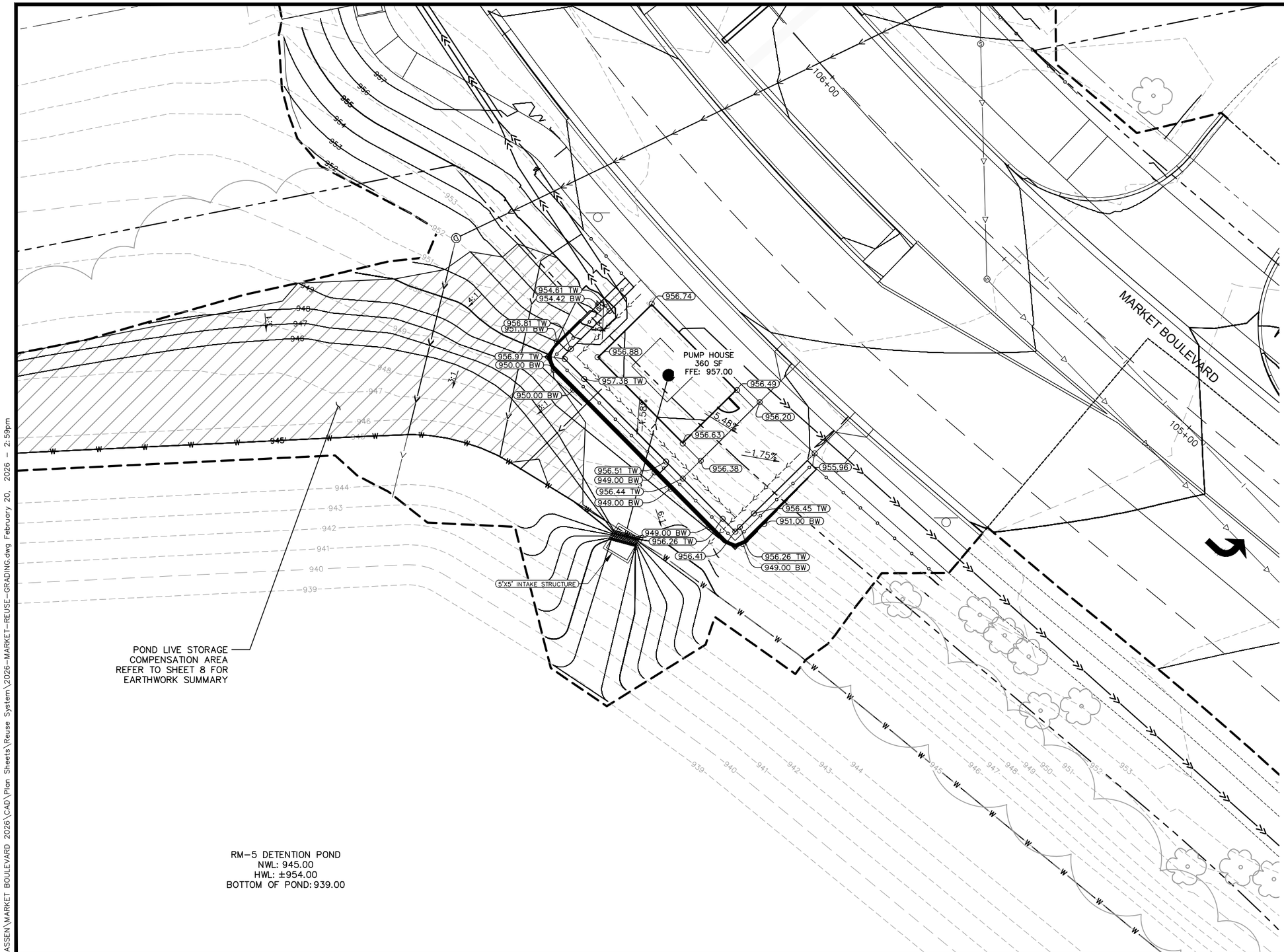
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
LAYOUT

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 72 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\Reuse System\2026-MARKET-REUSE ENLARGEMENTS.dwg February 20, 2026 - 2:58pm



LEGEND

- INPLACE CONTOURS
- PROPOSED CONTOURS
- 6" PERF PVC DRAINTILE
- 6" PVC PIPE DRAIN
- LIMITS OF DISTURBANCE
- 6" PVC CLEAN OUT – SEE SHEET 218 FOR DETAILS
- 1.00% GRADE
- 4:1 SLOPE

920.00 TC
919.50 GL

SPOT ELEVATIONS ABBREVIATIONS
TC = TOP CURB
GL = GUTTER LINE CURB
B = BUTUMINOUS
C = CONCRETE
EO = EMERGENCY OVERFLOW
TW = TOP WALL
BW = BOTTOM WALL
(*) = INPLACE TO BE VERIFIED

NOTES:
1. STOCKPILING MATERIALS IS NOT ALLOWED IN PROPOSED BASIN AREAS.
2. DISTURBED RAIN GARDEN AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 24" INTO SUB-SOILS AT BOTTOM OF EXCAVATION OR OVEREXCAVATION, WITH A FROST-RIPPING TOOTH, AT A MAXIMUM SPACING OF 18" BETWEEN RIPPING PASSES (INCIDENTAL).
3. UNDERDRAIN REQUIREMENTS
   - 3.1. 6" PVC SCH40 WITH 3/8 IN. PERFORATIONS, WITH TRACER WIRE.
   - 3.2. MINIMUM DRAINTILE GRADE SHALL BE 0.5%.
   - 3.3. CLEANOUTS AT PIPE ENDS CUT TWO FEET ABOVE FINISHED GRADE WITH WATERTIGHT REMOVABLE CAPS.
   - 3.4. MAXIMUM 45-DEGREE BENDS.
   - 3.5. CONNECTIONS SHALL BE WYE FITTINGS.
4. BASIN SHALL NOT BE EXCAVATED UNTIL CONSTRUCTION WITHIN THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETED AND FULLY STABILIZED.
5. CONTRACTOR SHALL REMOVE ANY ACCUMULATED SEDIMENTS WITHIN THE RAIN GARDEN AREA AS A RESULT OF CONSTRUCTION ACTIVITY.

GRAPHIC SCALE IN FEET
0 5 10 20

No.	Date	Revisions	App.

DRAWING NAME: 2026-MARKET-REUSE-GRADING.dwg

DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

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MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

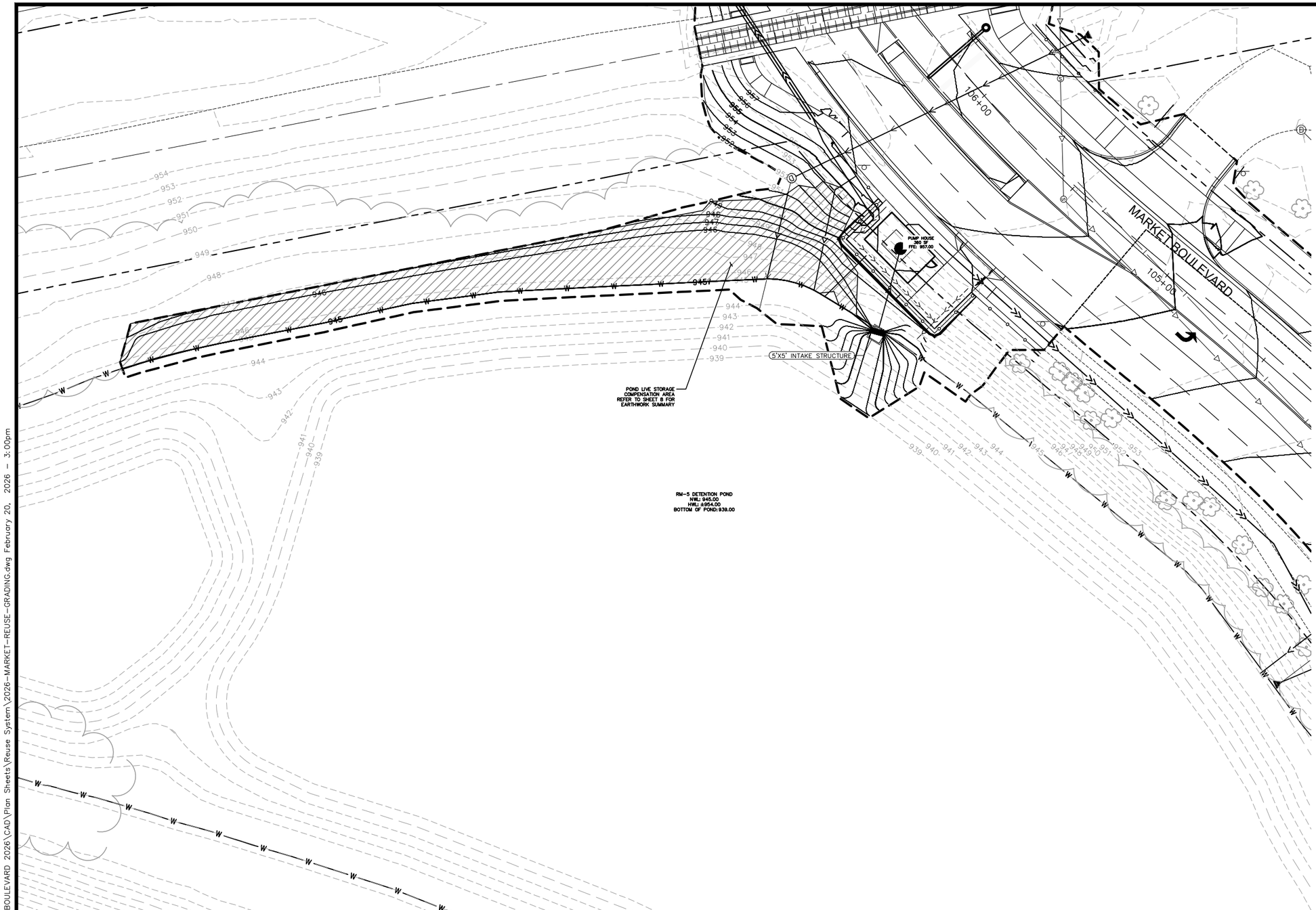
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
GRADING-PUMP STATION

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 73 / 169

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LEGEND

- 900 / 901 — INPLACE CONTOURS
- 900 / 901 — PROPOSED CONTOURS
- TILE — 6" PERF PVC DRAINTILE
- 6" PVC PIPE DRAIN
- LIMITS OF DISTURBANCE
- 6" PVC CLEAN OUT – SEE SHEET 218 FOR DETAILS
- 1.00% — GRADE
- 4:1 — SLOPE

920.00 TC
919.50 GL

SPOT ELEVATIONS ABBREVIATIONS
TC = TOP CURB
GL = GUTTER LINE CURB
B = BUTUMINOUS
C = CONCRETE
EO = EMERGENCY OVERFLOW
TW = TOP WALL
BW = BOTTOM WALL
(*) = INPLACE TO BE VERIFIED

NOTES:
1. STOCKPILING MATERIALS IS NOT ALLOWED IN PROPOSED BASIN AREAS.
2. DISTURBED RAIN GARDEN AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 24" INTO SUB-SOILS AT BOTTOM OF EXCAVATION OR OVEREXCAVATION, WITH A FROST-RIPPING TOOTH, AT A MAXIMUM SPACING OF 18" BETWEEN RIPPING PASSES (INCIDENTAL).
3. UNDERDRAIN REQUIREMENTS
   - 3.1. 6" PVC SCH40 WITH 3/8 IN. PERFORATIONS, WITH TRACER WIRE.
   - 3.2. MINIMUM DRAINTILE GRADE SHALL BE 0.5%.
   - 3.3. CLEANOUTS AT PIPE ENDS CUT TWO FEET ABOVE FINISHED GRADE WITH WATERTIGHT REMOVABLE CAPS.
   - 3.4. MAXIMUM 45-DEGREE BENDS.
   - 3.5. CONNECTIONS SHALL BE WYE FITTINGS.
4. BASIN SHALL NOT BE EXCAVATED UNTIL CONSTRUCTION WITHIN THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETED AND FULLY STABILIZED

GRAPHIC SCALE IN FEET
0 10 20 40

No.	Date	Revisions	App.

DRAWING NAME: 2026-MARKET-REUSE-GRADING.dwg

DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
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MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

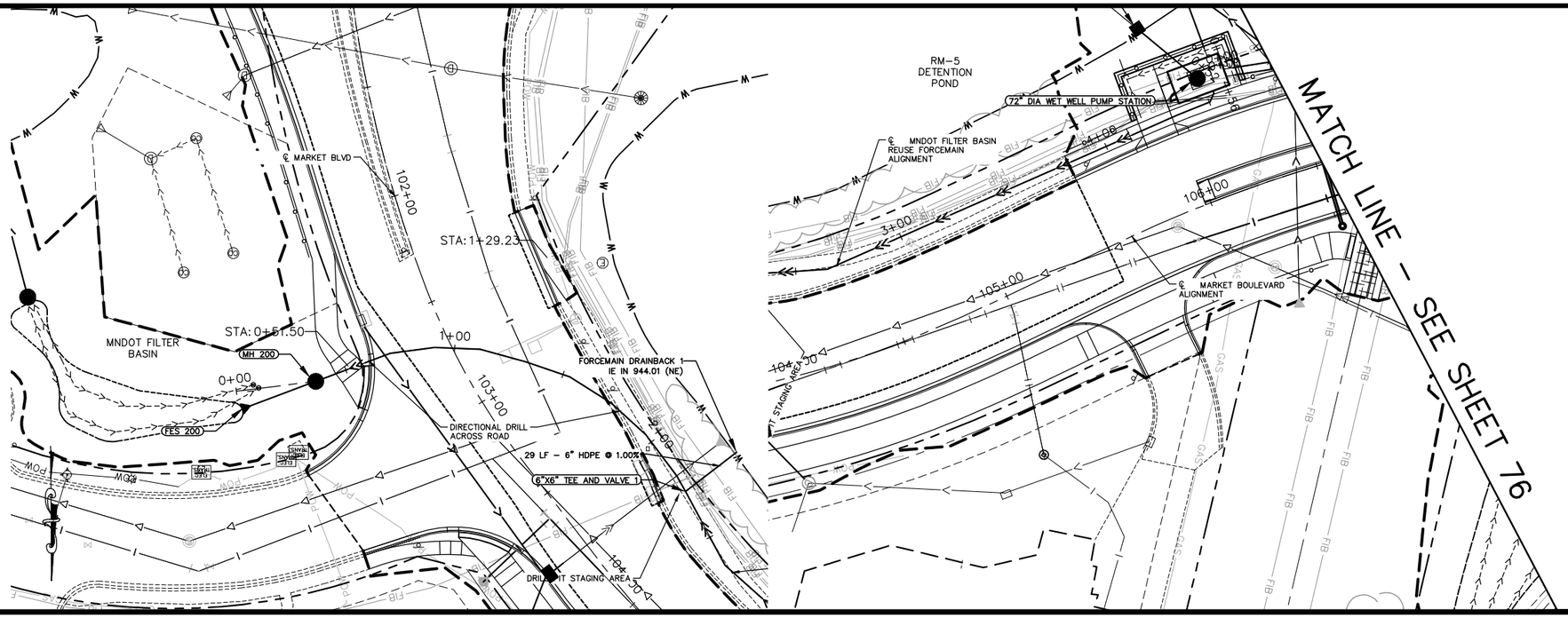
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
GRADING-POND

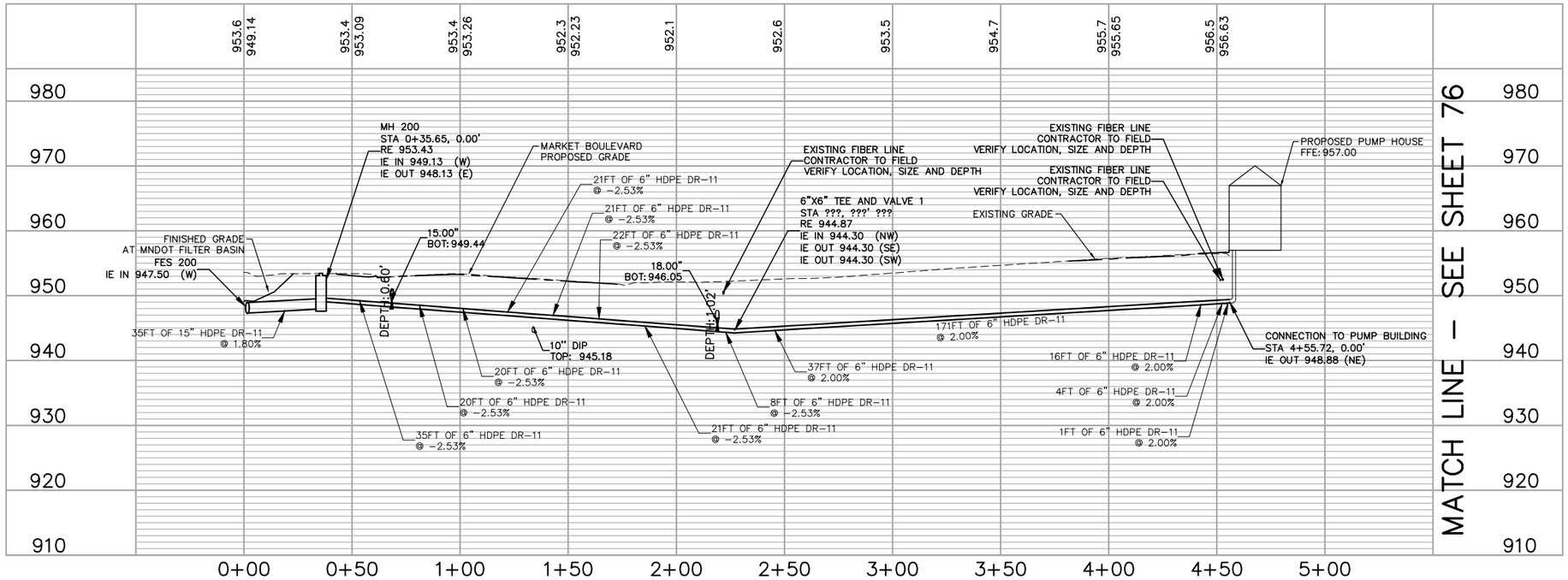
CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 74 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\Reuse System\2026-MARKET-REUSE-GRADING.dwg February 20, 2026 - 3:00pm



REUSE FORCEMAIN PROFILE – PUMP HOUSE TO MNDOT FILTER BASIN



LEGEND:

- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- REUSE FORCEMAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- FIB — EXISTING FIBER LINE
- POW — EXISTING POWER LINE
- GAS — EXISTING GAS LINE

NOTES:

1. ALL DIMENSIONS ARE SHOWN TO FACE OF CURB, UNLESS NOTED OTHERWISE
2. THE EXACT LOCATION OF UNDERGROUND UTILITES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.
3. THE MINIMUM REQUIRED BURY DEPTH FOR 6" HDPE DR–11 FORCEMAIN IS 4'–0", UNLESS OTHERWISE NOTED IN PROFILE.

GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL

0 5 10 20
VERTICAL

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–PPF.dwg	
DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
WWW.KIMLEY–HORN.COM

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MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

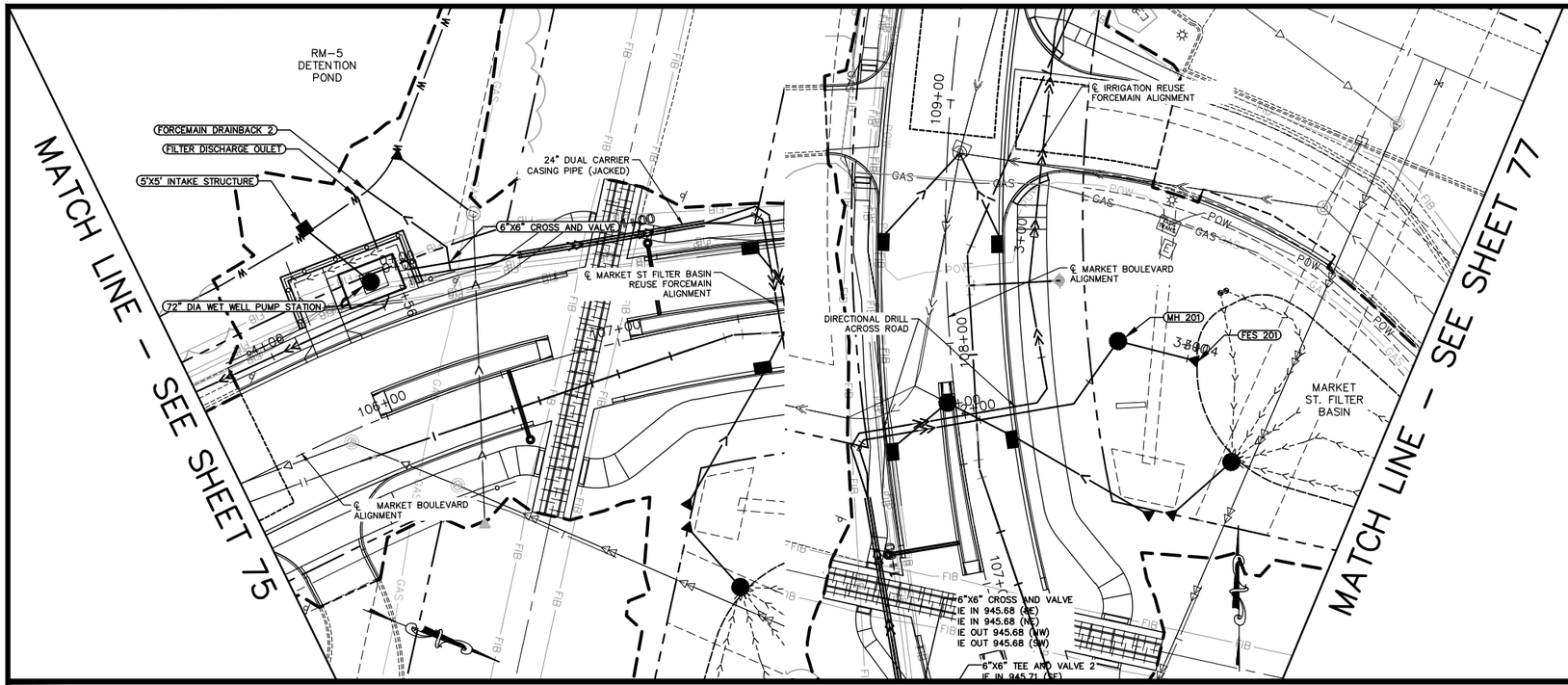
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
PLAN & PROFILES
STA. X+XX TO STA. X+XX

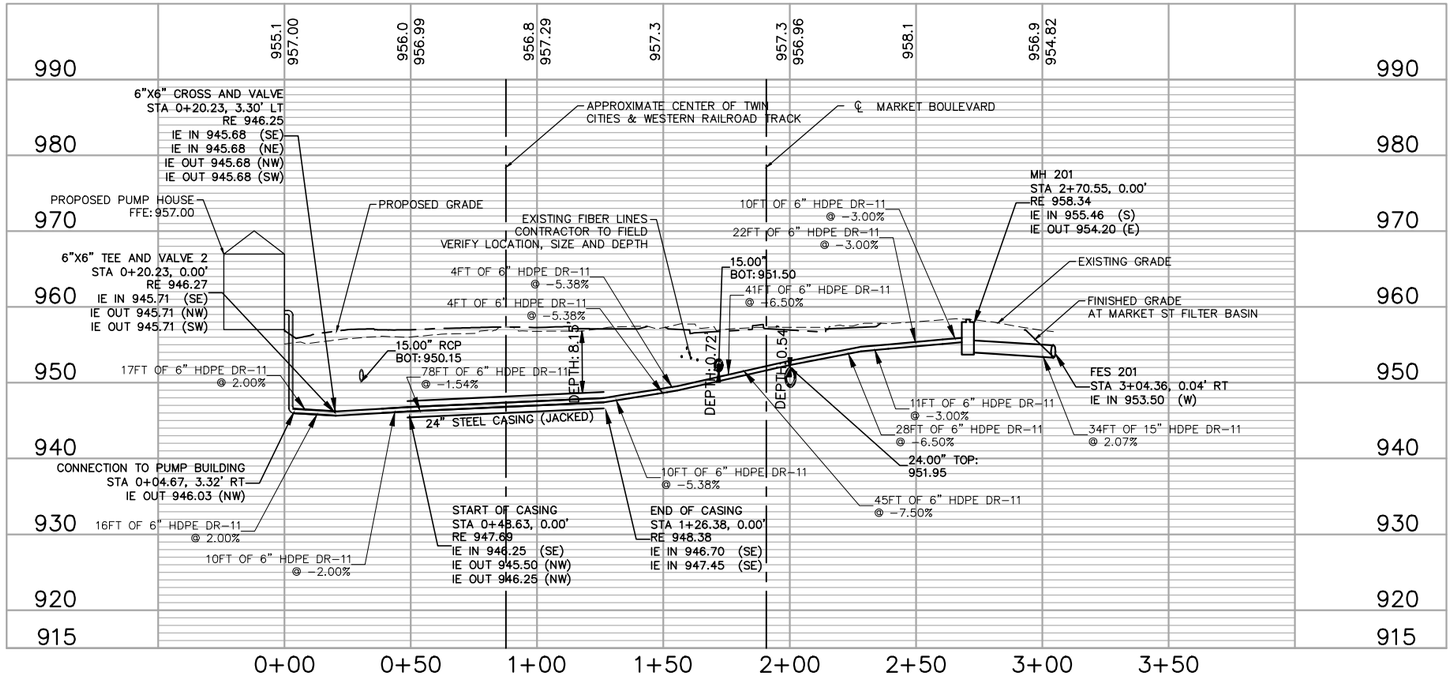
CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 75 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\Reuse System\2026–MARKET–PPF.dwg February 20, 2026 – 3:01pm



REUSE FORCEMAIN PROFILE – PUMP HOUSE TO MARKET ST FILTER BASIN & CIVIC CENTER CAMPUS



LEGEND:

- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- REUSE FORCEMAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- FIB — EXISTING FIBER LINE
- POW — EXISTING POWER LINE
- GAS — EXISTING GAS LINE

NOTES:
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2. THE EXACT LOCATION OF UNDERGROUND UTILITES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.
3. THE MINIMUM REQUIRED BURY DEPTH FOR 6" HDPE DR-11 FORCEMAIN IS 4'-0", UNLESS OTHERWISE NOTED IN PROFILE.

GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL

0 5 10 20
VERTICAL

No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-PPF.dwg	
DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
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MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

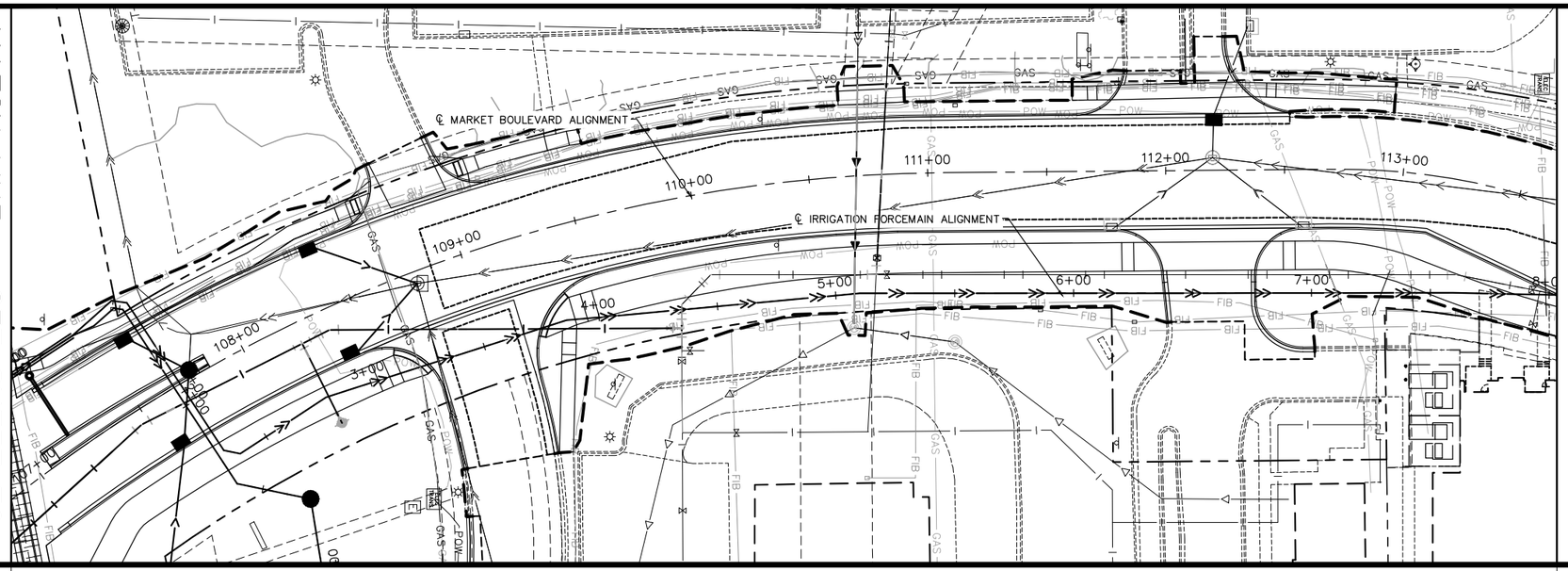
REUSE SYSTEM
PLAN & PROFILES
STA. X+XX TO STA. X+XX

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 76 / 169

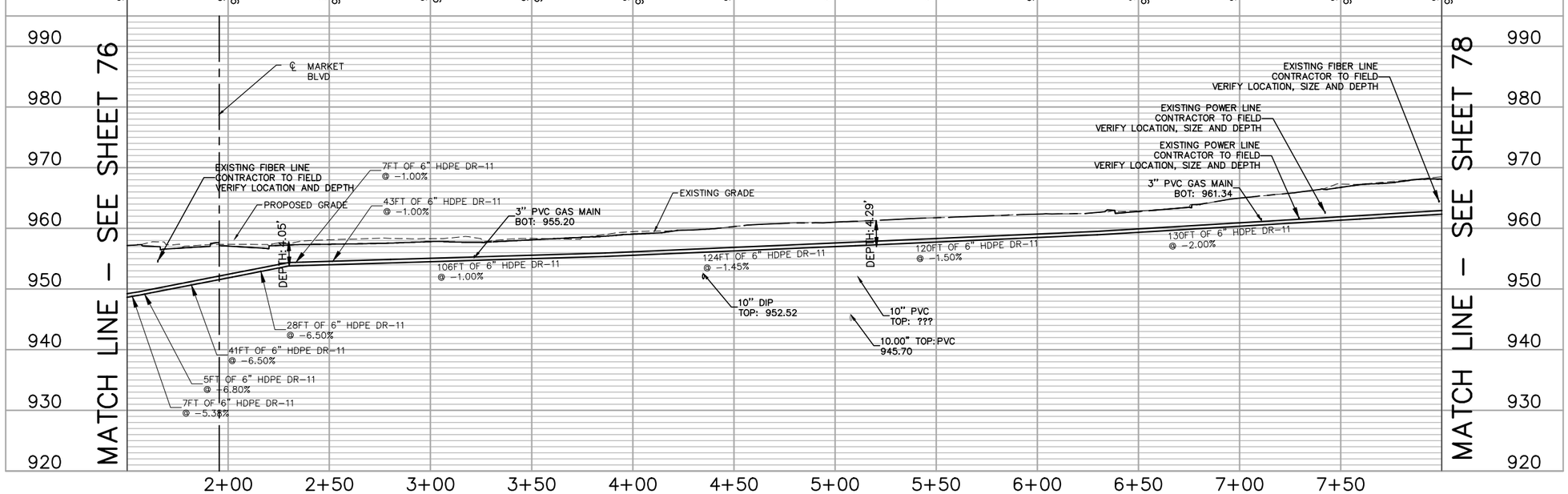
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MATCH LINE – SEE SHEET 76



MATCH LINE – SEE SHEET 78

REUSE FORCEMAIN PROFILE – PUMP HOUSE TO CIVIC CENTER CAMPUS



LEGEND:

- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- REUSE FORCEMAIN
- EXISTING SANITARY SEWER
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2. THE EXACT LOCATION OF UNDERGROUND UTILITES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.
3. THE MINIMUM REQUIRED BURY DEPTH FOR 6" HDPE DR–11 FORCEMAIN IS 4'–0", UNLESS OTHERWISE NOTED IN PROFILE.

GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL

0 5 10 20
VERTICAL

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–PPF.dwg

DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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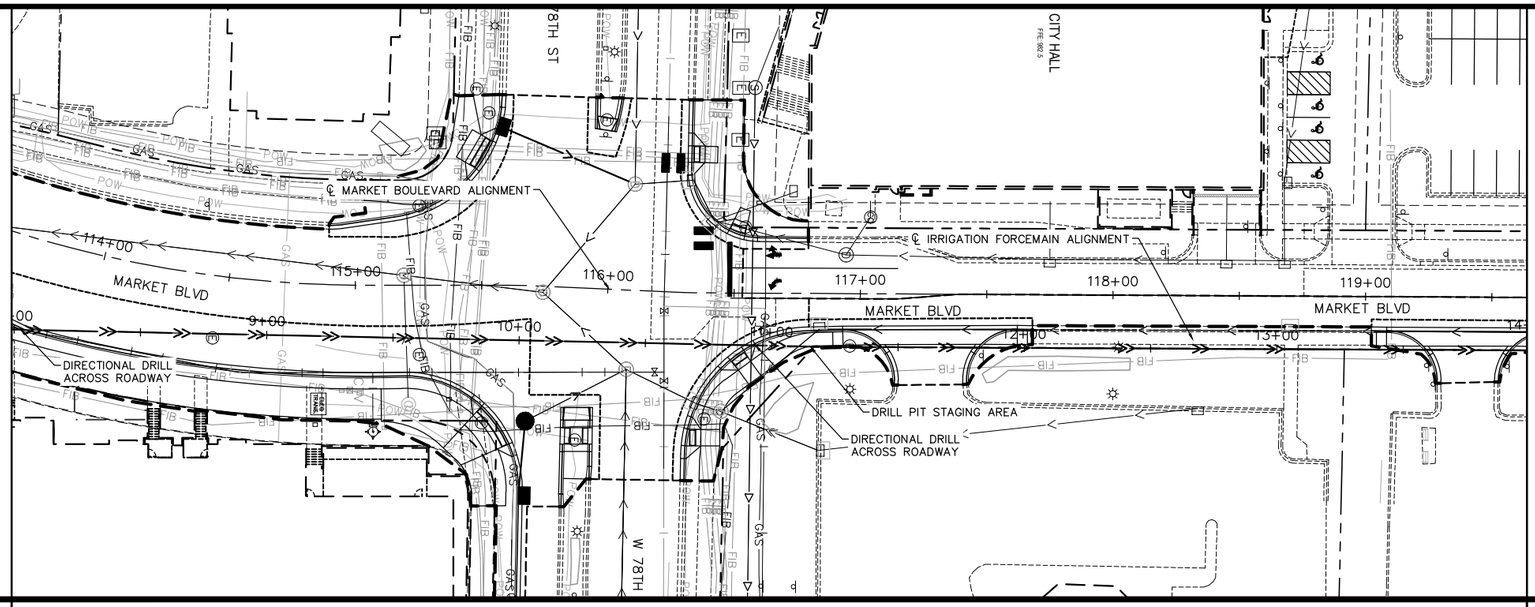
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
PLAN & PROFILES
STA. X+XX TO STA. X+XX

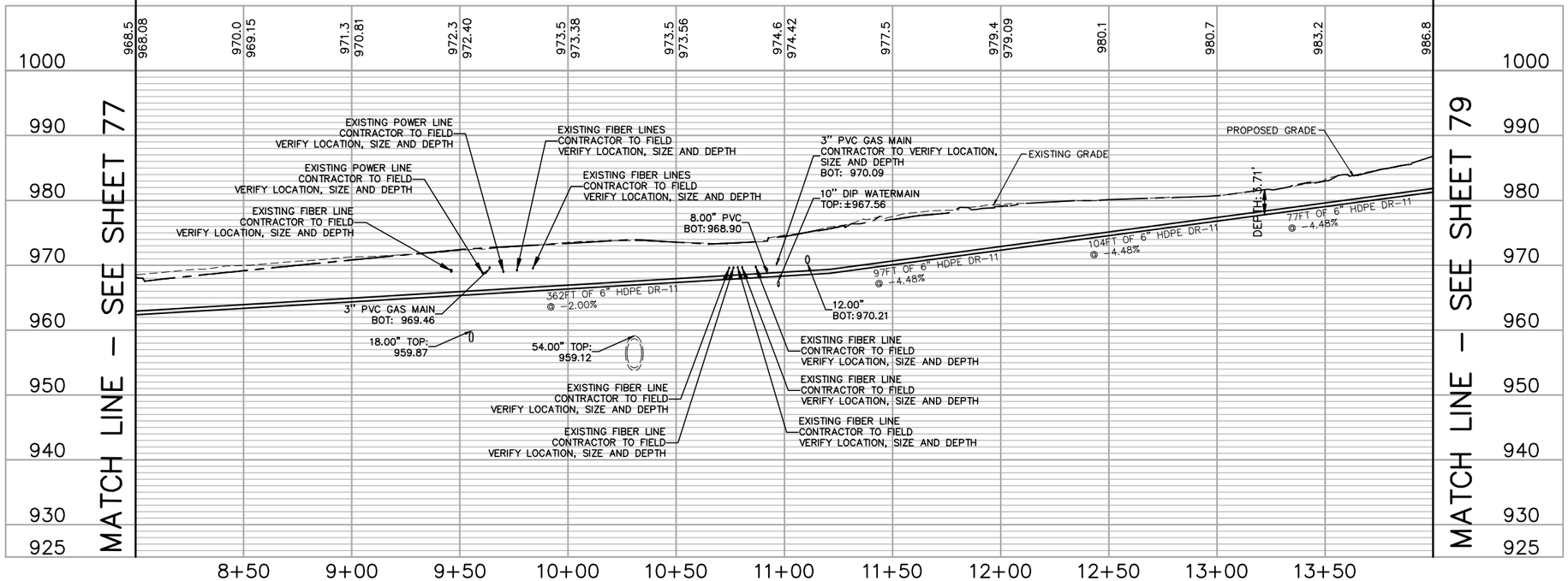
CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 77 / 169

K:\TWC_Civil\City\CHANHASSEN\MARKET BOULEVARD 2026\CAD\Plan Sheets\Reuse System\2026–MARKET–PPF.dwg February 20, 2026 – 3:01pm



REUSE FORCEMAIN PROFILE – PUMP HOUSE TO CIVIC CENTER CAMPUS



LEGEND:

- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- CONSTRUCTION LIMITS
- EXISTING RIGHT–OF–WAY
- EXISTING EASEMENT
- PROPOSED RIGHT–OF–WAY
- TEMPORARY EASEMENT
- PROPOSED STORM SEWER
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- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
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- FIB — EXISTING FIBER LINE
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2. THE EXACT LOCATION OF UNDERGROUND UTILITES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.
3. THE MINIMUM REQUIRED BURY DEPTH FOR 6" HDPE DR–11 FORCEMAIN IS 4'–0", UNLESS OTHERWISE NOTED IN PROFILE.

GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL

0 5 10 20
VERTICAL

No.	Date	Revisions	App.

DRAWING NAME 2026–MARKET–PPF.dwg

DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25–02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612–315–1272
WWW.KIMLEY–HORN.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

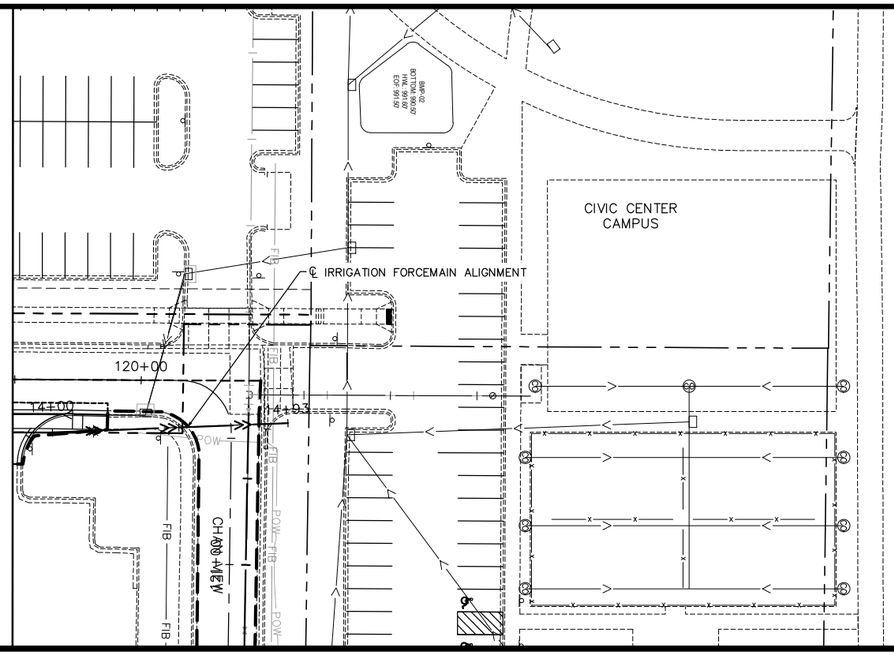
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
PLAN & PROFILES
STA. X+XX TO STA. X+XX

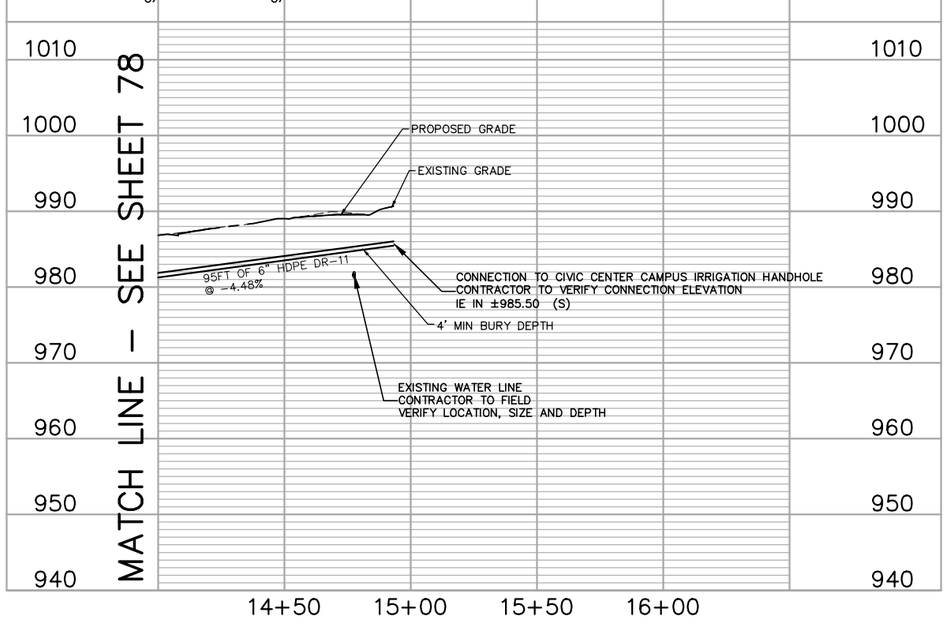
CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 78 / 169

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REUSE FORCEMAIN PROFILE – PUMP HOUSE TO CIVIC CENTER CAMPUS



LEGEND:

- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- REUSE FORCEMAIN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- FIB — EXISTING FIBER LINE
- POW — EXISTING POWER LINE
- GAS — EXISTING GAS LINE

NOTES:
1. ALL DIMENSIONS ARE SHOWN TO FACE OF CURB, UNLESS NOTED OTHERWISE
2. THE EXACT LOCATION OF UNDERGROUND UTILITES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE PRIOR TO STARTING ANY EXCAVATION.
3. THE MINIMUM REQUIRED BURY DEPTH FOR 6" HDPE DR-11 FORCEMAIN IS 4'-0", UNLESS OTHERWISE NOTED IN PROFILE.

GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL

0 5 10 20
VERTICAL

No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-PPF.dwg

DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
PHONE: 612-315-1272
WWW.KIMLEY-HORN.COM

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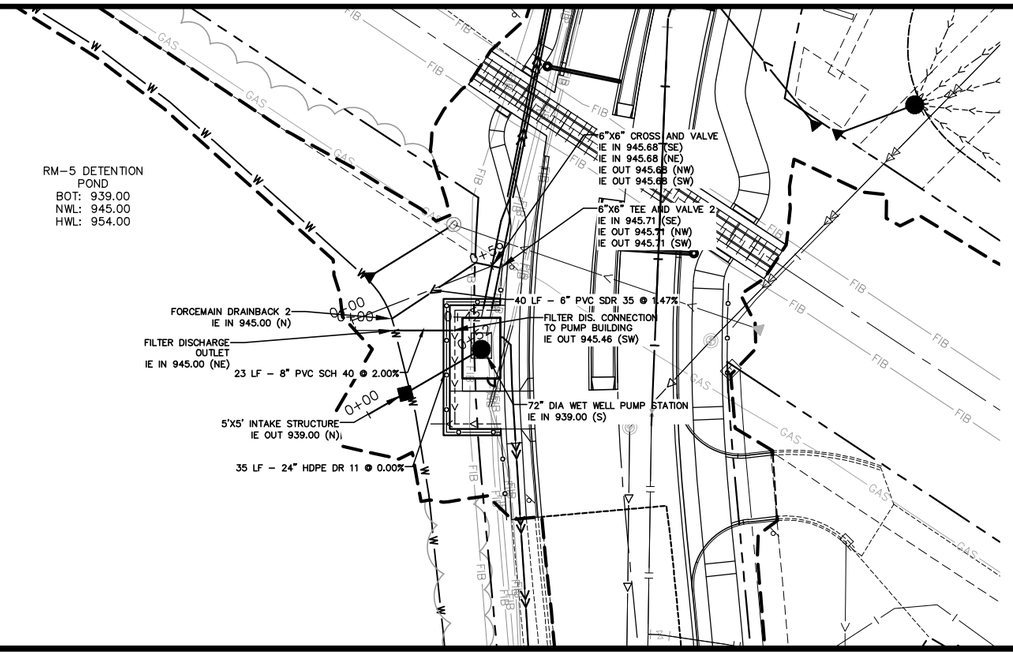
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
PLAN & PROFILES
STA. X+XX TO STA. X+XX

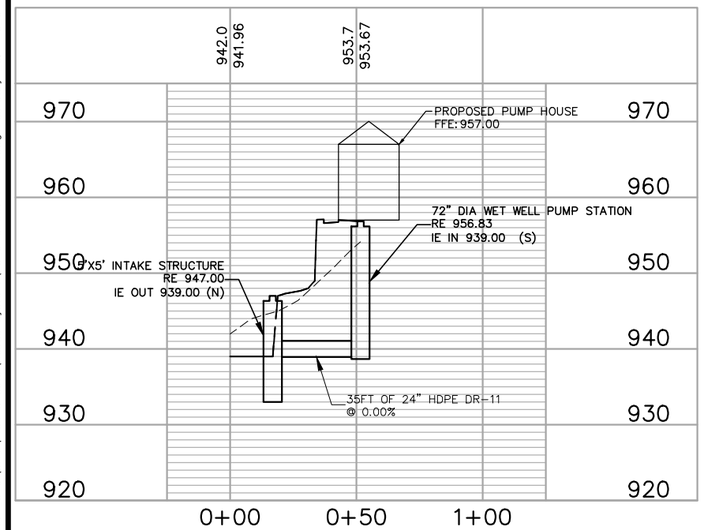
CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 79 / 169

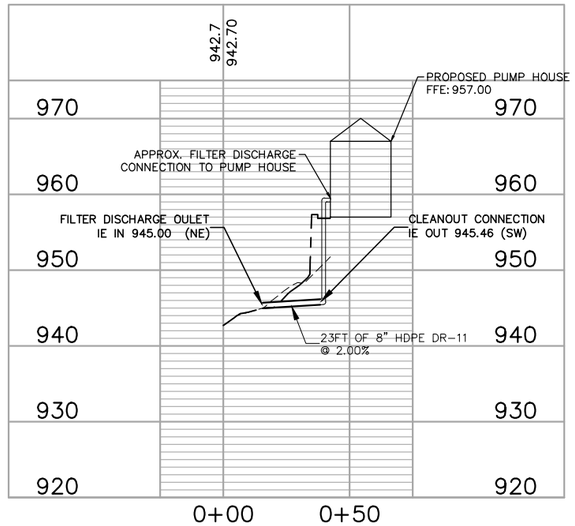
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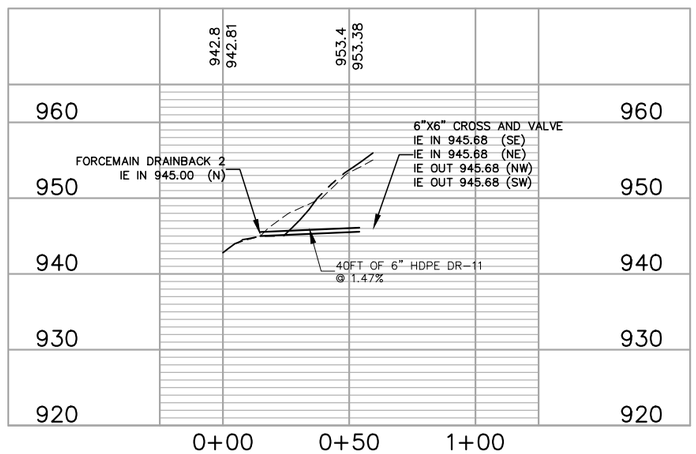
POND INTAKE TO PUMP STATION PROFILE



FILTER DISCHARGE PROFILE



FORCEMAIN DRAINBACK PROFILE



LEGEND:

- CONCRETE CURB & GUTTER
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT
- PROPOSED RIGHT-OF-WAY
- TEMPORARY EASEMENT
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- EXISTING STORM SEWER
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- EXISTING SANITARY SEWER
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GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL

0 5 10 20
VERTICAL

No.	Date	Revisions	App.

DRAWING NAME 2026-MARKET-PPF.dwg

DESIGNED BY:	RJG
DRAWN BY:	RJG
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

WIRE FENCE DESIGN
SPECIAL VINYL COATED
STA. X+XX TO STA. X+XX

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 80 / 169

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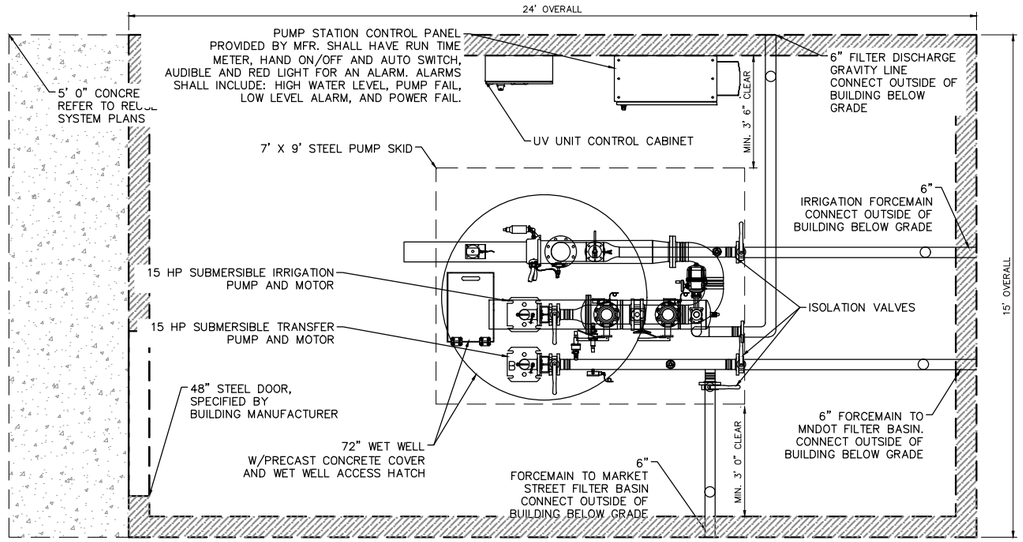
PUMP STATION NOTES:

1. BUILDING SHALL BE A CUSTOM, PRE-FABRICATED CONCRETE MASONRY BUILDING. DESIGN OF BUILDING AND FOUNDATION SHALL BE PERFORMED BY A P.E. LICENSED IN THE STATE OF MINNESOTA. DESIGN CRITERIA TO FOLLOW 2020 MINNESOTA STATE BUILDING CODE.
2. ALL PIPING INSIDE PUMP BUILDING SHALL HAVE FLANGE FITTINGS. ALL PIPING OUTSIDE THE PUMP BUILDING SHALL HAVE MECHANICAL JOINTS.
3. WET WELL SHALL BE 6'-0" I.D. RCP CL3 WALL B MEETING ASTM. C-47B WITH A 12" THICK CONCRETE SLAB AND PRECAST CONCRETE COVER. REFER TO CITY OF CHANHASSEN STANDARD PLATE 5401-A FOR DETAILS.

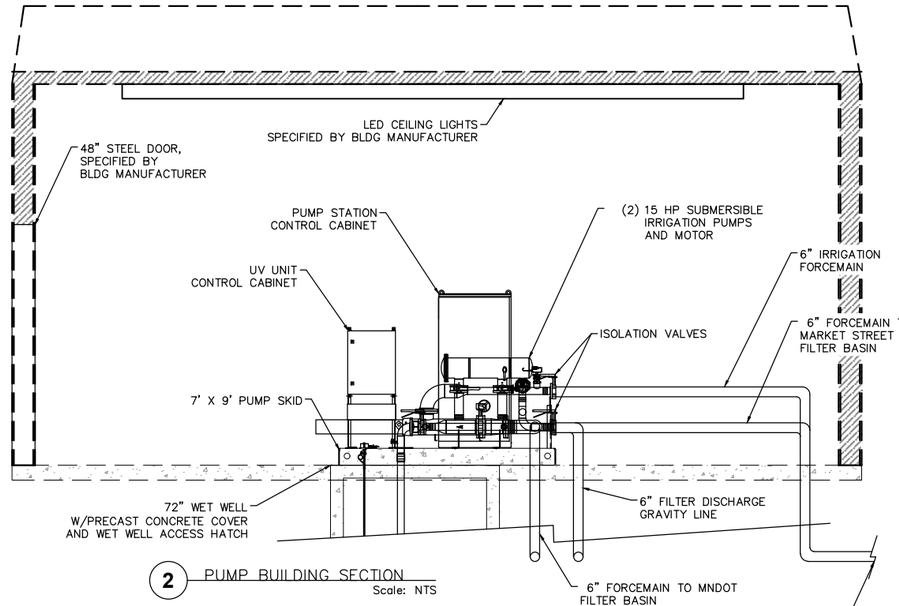
MIN. DESIGN REQUIREMENTS:

4. INSTALL 2 - 4' LED LIGHTS DOWN CENTER OF CEILING.
2. INSTALL FIBERGLASS INSULATION ON INTERIOR WALLS.
3. CONCRETE SHALL BE 4,000 PSI INTERIOR MIX WITH FIBER REINFORCEMENT.
4. INSTALL 48" EXTERIOR STEEL INSULATED DOORS WITH DEADBOLT LOCK.
5. PUMP BUILDING SHALL BE CONDITIONED.

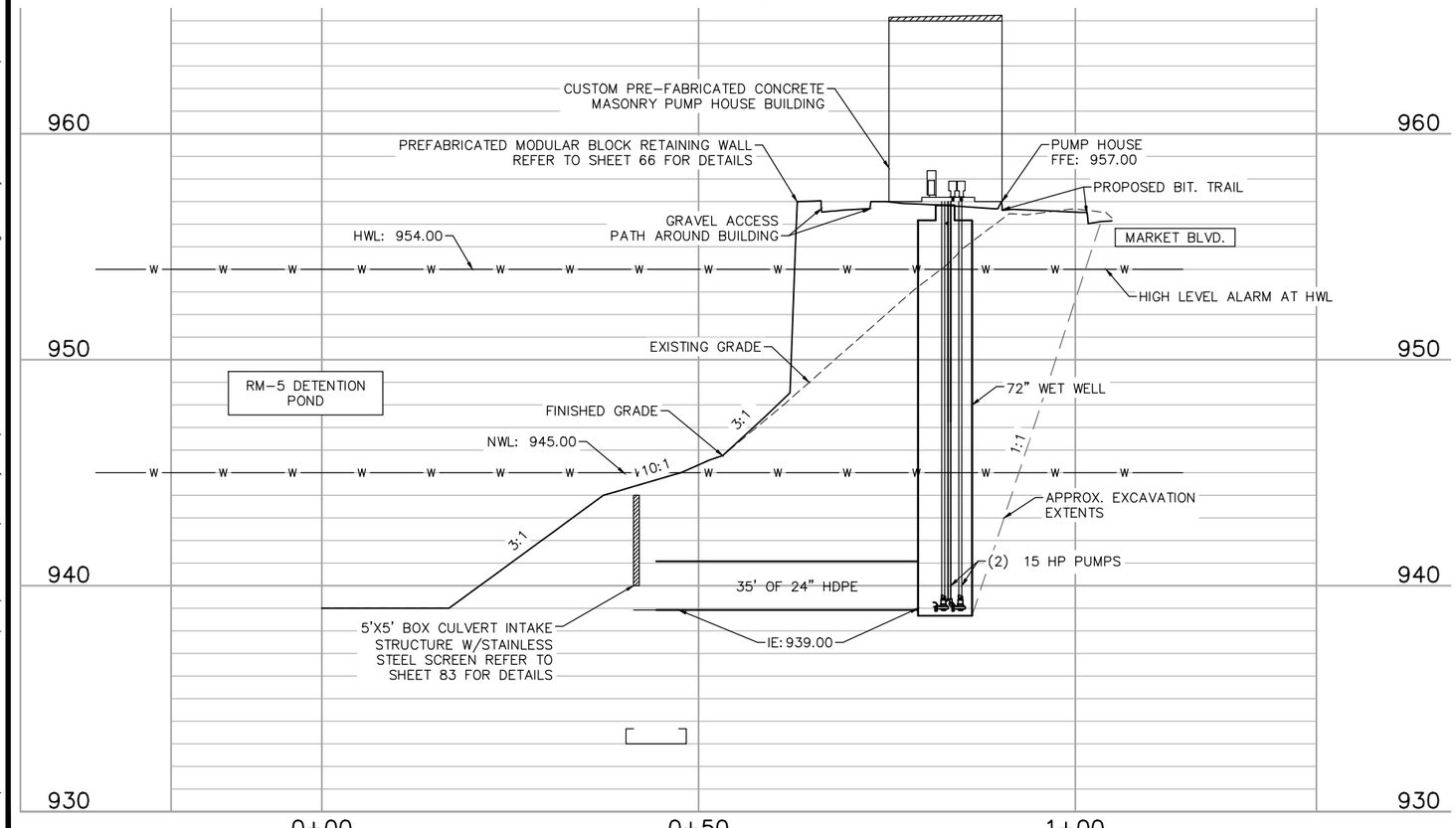
NOTE: THE PUMP STATION PLAN AND SECTIONS ARE A RENDERING FOR DESIGN INTENT PURPOSES ONLY. CONTRACTOR TO DEFER TO PUMP STATION AND PRE-FAB MANUFACTURER FOR EXACT DETAILS AND DIMENSIONS.

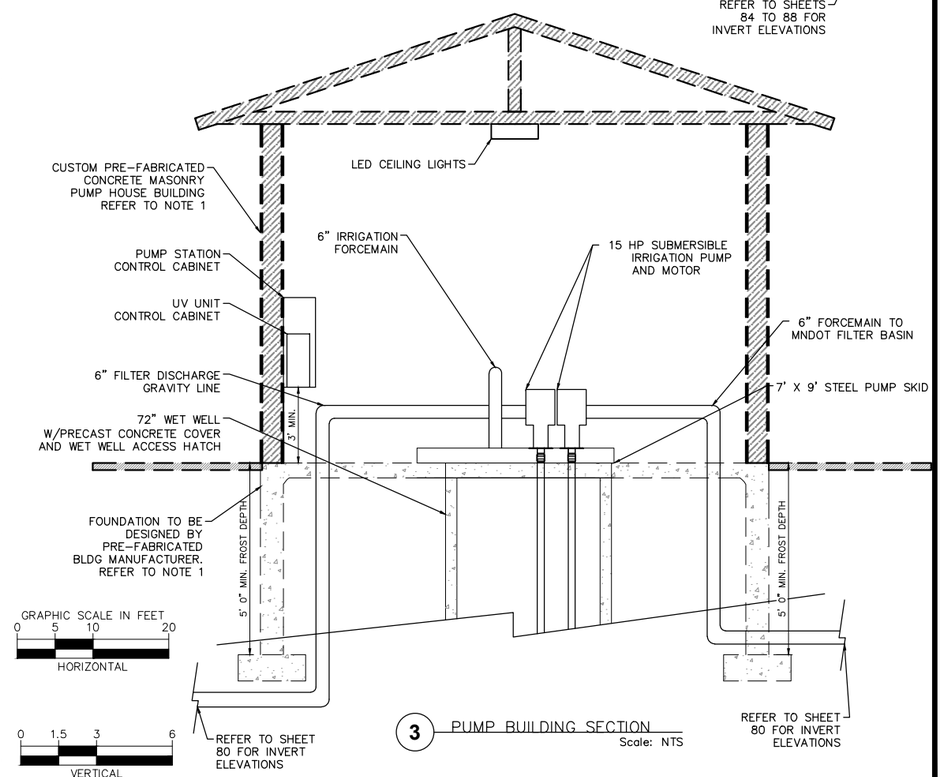


1 PUMP BUILDING PLAN
Scale: NTS



2 PUMP BUILDING SECTION
Scale: NTS





3 PUMP BUILDING SECTION
Scale: NTS

No.	Date	Revisions	App.

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DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
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Kimley»Horn
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MICHAEL C. BRANDT
DATE: 2/20/2026 MN LIC. NO. 42661

CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM DETAILS

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 81 / 169

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PUMP STATION SPECIFICATIONS:
NAME: **MARKET BLVD.**
STATION MODEL : SH *STV-7C-15/7.5-480-3-185/185-60/25*

STATION TOTAL PERFORMANCE:
IRRIGATION – 185GPM @ 60PSI
TRANSFER – 185GPM @25PSI

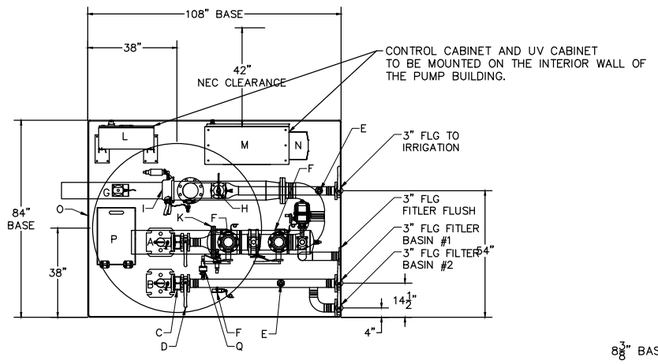
PUMP HORSEPOWER:
IRRIGATION PUMP NO.1 – 15HP (3600RPM)
TRANSFER PUMP NO.2 – 15HP (3600RPM)

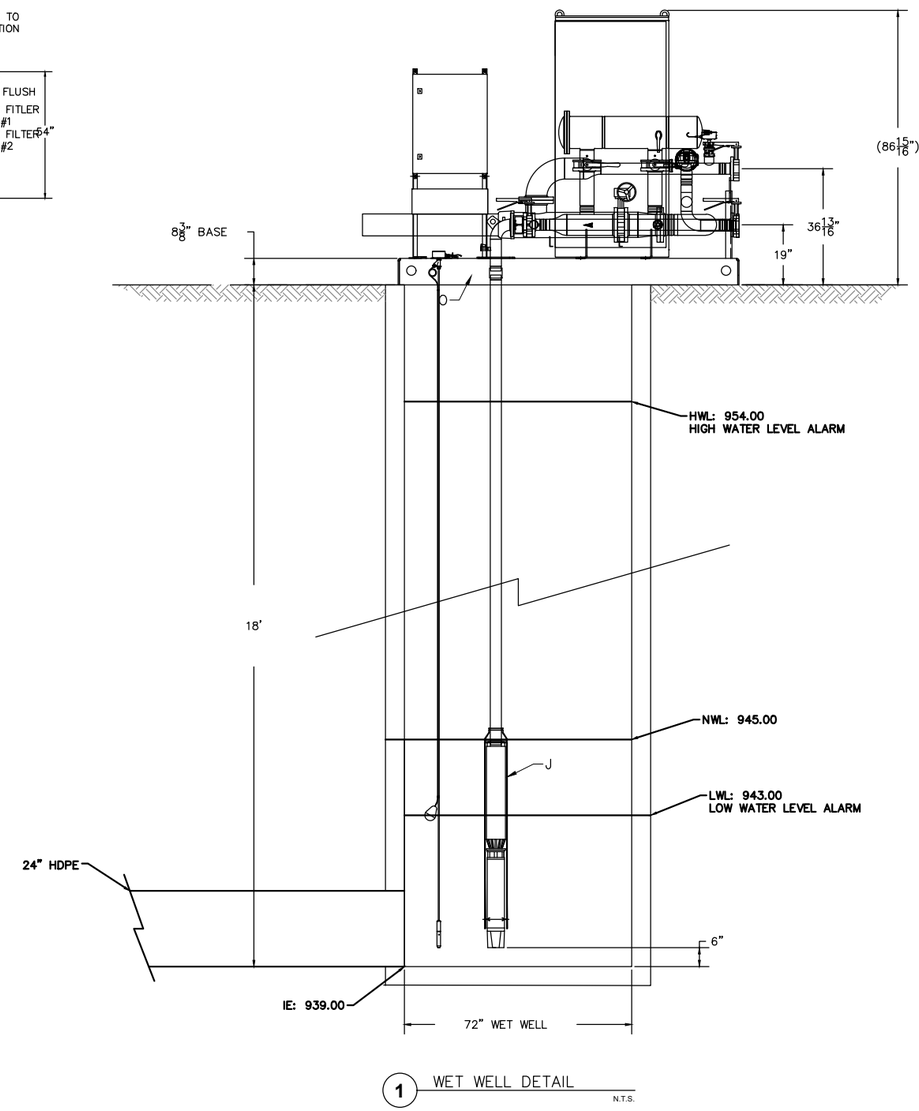
MIN SUGGESTED DISCONNECT: 60AMP
POWER REQUIREMENTS: 480V, 60HZ, 3PH, 43 FLA EST.

STATION COMPONENTS:
A 15HP SUBMERSIBLE PUMP AND MOTOR
B 15HP SUBMERSIBLE PUMP AND MOTOR
C CHECK VALVE
D PUMP ISOLATION VALVE
E DI FLOW SENSOR
F PRESSURE TRANSDUCER WITH GAUGE
G LEVEL SENSOR W/ FLOAT
H AIR RELEASE VALVE
I UV FILTER
J FLOW INDUCER SLEEVE
K VAF V500–NB 4" AUTO–FLUSHING FILTER, 25 MICRON
L UV UNIT CONTROL CABINET
M CONTROL CABINET
N HEAT EXCHANGER
O PAINTED STEEL BASE (SANDSTONE)
P WET WELL HATCH
Q PRESSURE RELIEF VALVE

NOTES:
– MNDOT FILTER BASIN TO RUN TO 217,000 GALLONS, THEN SHUT DOWN.
– MARKET STREET FILTER BASIN TO RUN TO 112,000 GALLONS, THEN SHUT DOWN.
– SWITCHING BETWEEN BASINS TO BE DONE MANUALLY

PUMP TO MNDOT FILTER BASIN TDH=20
PUMP TO MARKET STREET FILTER BASIN TDH=20
PUMP TO CIVIC CENTER CAMPUS IRRIGATION SYSTEM TDH=52





1 WET WELL DETAIL
N.T.S.

NOTES:
1. CONCEPT ONLY, DRAWING NOT TO SCALE.
2. DO NOT RULER OR MEASURE IN A–CAD SPACE.
3. DO NOT RULER DRAWING!
4. ALL WIRE AND CONDUIT FROM REMOTE COMPONENTS TO CONTROL PANEL NOT SUPPLIED BY WATERTRONICS.
5. INSTALLATION OF PUMP EQUIPMENT SHALL BE BY EXPERIENCED AUTOMATIC PUMP/CONTROLS CONTRACTOR.

No.	Date	Revisions	App.

DRAWING NAME	
2026–MARKET– SITE DETAILS.dwg	
DESIGNED BY:	KBP
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CHECKED BY:	MCB
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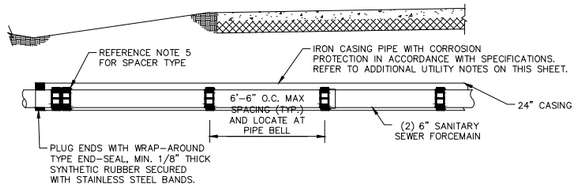
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

REUSE SYSTEM
DETAILS

CITY PROJECT	25–02
S.A.P.	194–123–002

SHEET NO. 82 / 169

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NOTES:
1. BORE AND CASING SHALL BE INSTALLED AS SHOWN ON THE PLANS. THIS DETAIL ILLUSTRATES THE GENERAL LOCATION OF CASING SPACERS FOR SUPPORTING FORCEMAIN PIPE AND GROUTING ENDS OF CASING PIPE.
2. WHERE A BORE PIT EXCEEDS 5 FEET IN DEPTH, THE CONTRACTOR SHALL INSTALL SHORING OF THE PIT WALLS AS REQUIRED BY O.S.H.A.
3. WHERE A BORE IS TO BE PARTIALLY OR COMPLETELY ABANDONED, THE BORE SHALL BE COMPLETELY FILLED WITH HYDRAULICALLY-PLACED CEMENT GROUT.
4. ALL INTERIOR JOINTS SHALL BE RESTRAINED BY WELDING FOR P.C.C.P OR FIELD LOK GASKET FOR DUCTILE IRON.
5. FOR BORES 150 LF OR LONGER: 12" WIDE 304 STAINLESS BAND AND 2" WIDE PLASTIC OR POLYETHYLENE RUNNERS, PIPELINE SEAL AND INSULATOR, INC., MODEL S126-2 OR APPROVED EQUAL.
FOR BORES LESS THAN 150 LF: CCI PIPING SYSTEMS CASING SPACERS OR APPROVED EQUAL AND DOUBLE SPACERS AT EACH END.
6. CASING PIPES TO BE INSTALLED PER CITY OF CHANHASSEN SPECIFICATIONS.

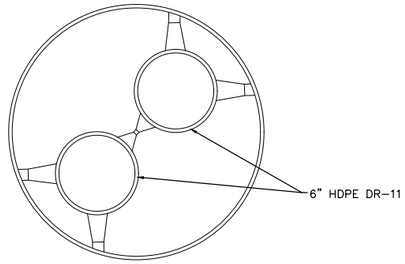
1 BORE & CASING DETAIL
N.T.S.



TYPICAL HIGHWAY CROSSING

NOTE:
CASING PIPE SHALL HAVE A PROTECTIVE COATING. CONSISTING OF A COAL-TAR PRIMER COAT AND AN APPLICATION OF HOT COAL - TAR ENAMEL $\frac{3}{32}$" (±1/32") THICK.

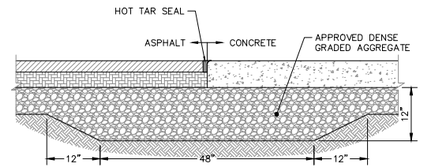
CARRIER PIPE	CASING PIPE FOR HIGHWAY CROSSINGS	
INSIDE DIA. IN INCHES	NOMINAL DIA. IN INCHES	THICKNESS IN INCHES
8	16	0.250
10	18	0.250
12	20	0.313
14	24	0.344
16	26	0.375
20	30	0.438
24	36	0.500
30	42	0.500
36	48	0.500



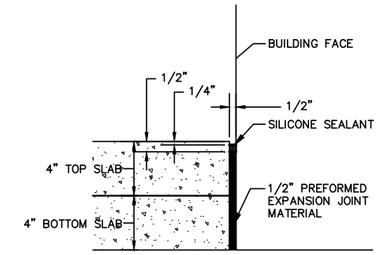
DUAL CARRIER PIPE TYPICAL ENCASEMENT SECTION FOR JACK & BORE INSTALLATION

NOTE:
CASING TO BE SEALED AROUND THE CARRIER PIPE WITH 8" BRICK. BULKHEAD AT EACH END SHALL BE CONSTRUCTED USING CEMENT MORTAR.

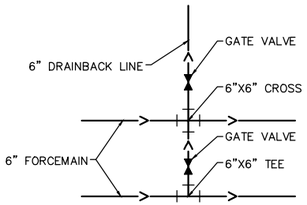
2 JACK & BORE
N.T.S.



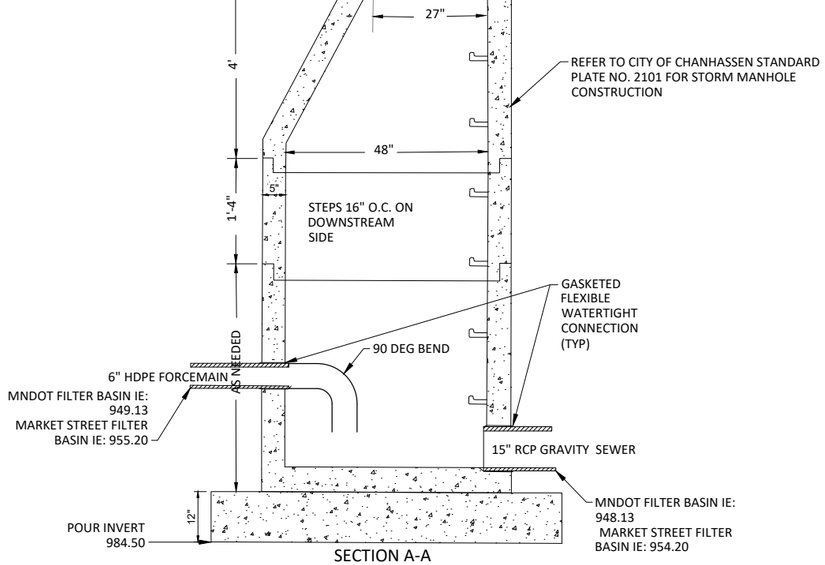
3 CONCRETE TO ASPHALT TRANSITION
N.T.S.



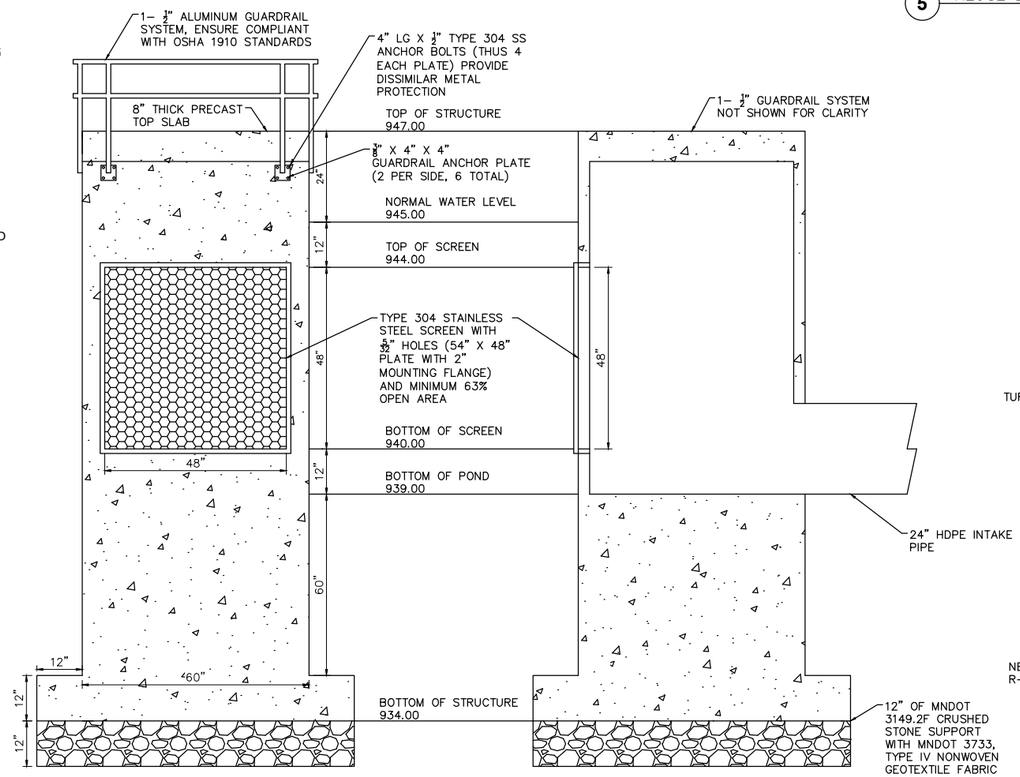
4 EXPANSION JOINT AT BUILDING
N.T.S.



5 REUSE DRAINBACK CROSSING DETAIL
N.T.S.

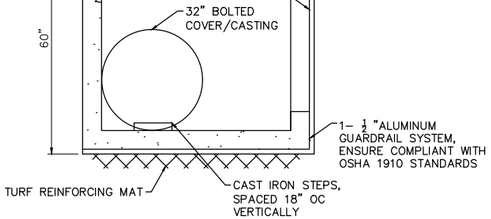


6 FORCEMAIN CONNECTION IN MANHOLE
N.T.S.

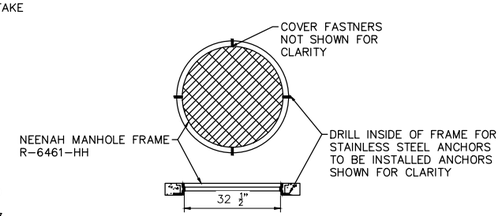


7 INTAKE STRUCTURE PROFILE (S)
N.T.S.

8 INTAKE STRUCTURE (E-W)
N.T.S.



9 INTAKE STRUCTURE PLAN
N.T.S.



10 INTAKE STRUCTURE COVER
N.T.S.

No.	Date	Revisions	App.

DRAWING NAME	2026-MARKET- SITE DETAILS.dwg
DESIGNED BY:	KBP
DRAWN BY:	KBP
CHECKED BY:	MCB
DATE:	2/20/2026
PROJECT NO.	25-02

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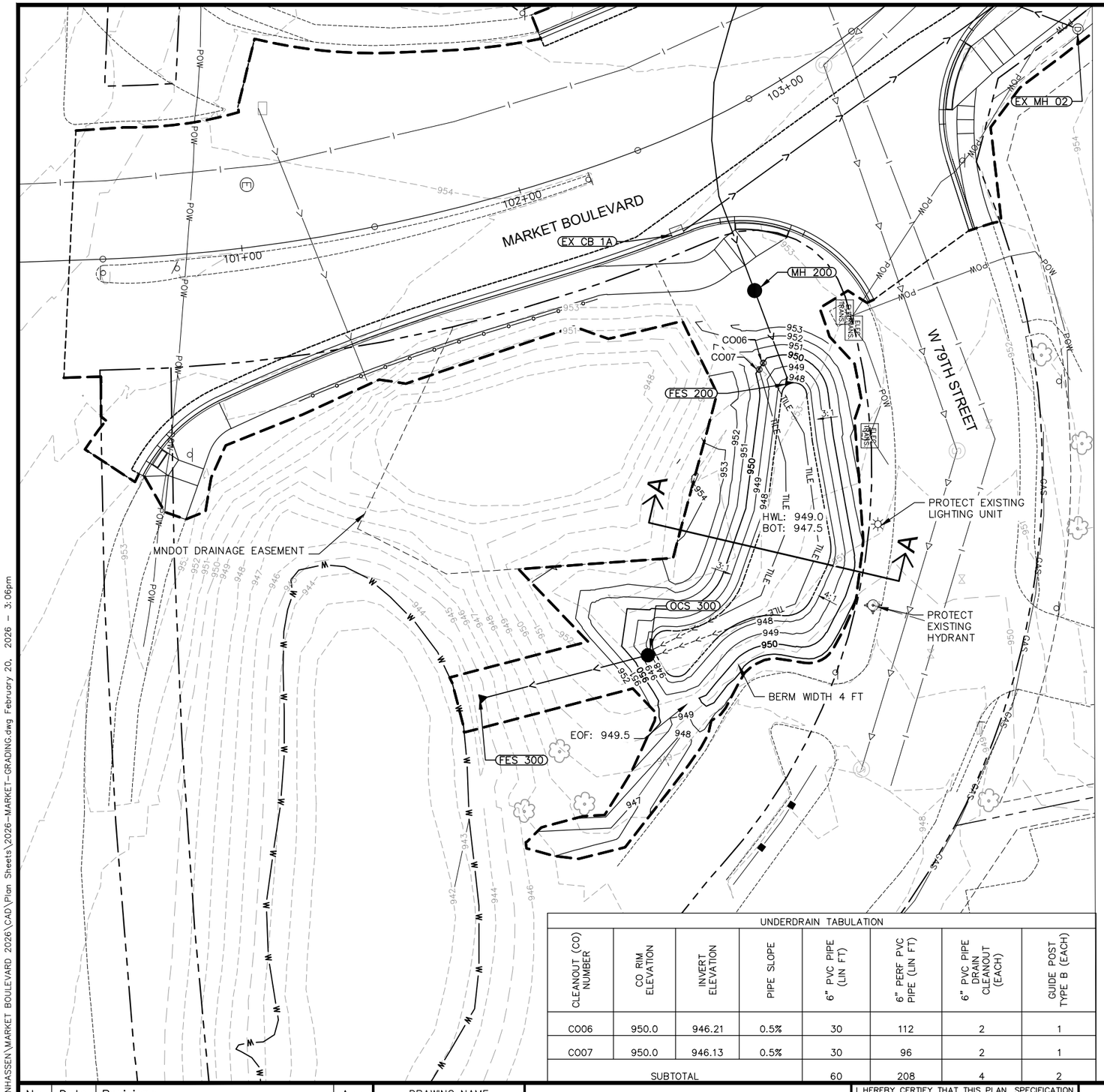
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

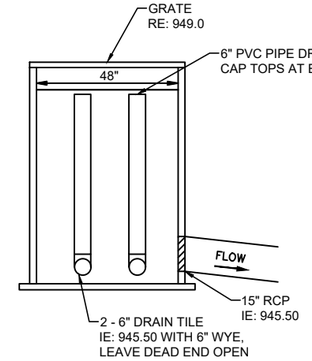
REUSE SYSTEM DETAILS

CITY PROJECT	25-02
S.A.P.	194-123-002

SHEET NO. 83 / 169

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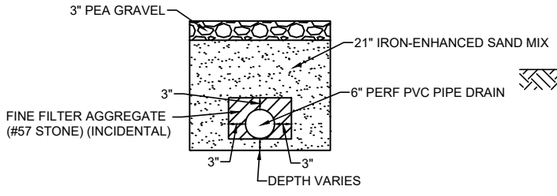
OCS STRUCTURE DETAIL
NOT TO SCALE

LEGEND

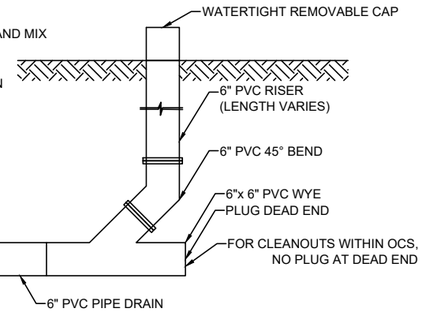
- INPLACE CONTOURS
- PROPOSED CONTOURS
- 6" PERF PVC DRAINTILE
- 6" PVC PIPE DRAIN
- 6" PVC CLEAN OUT
- SLOPE
- BASIN BOTTOM

NOTES:

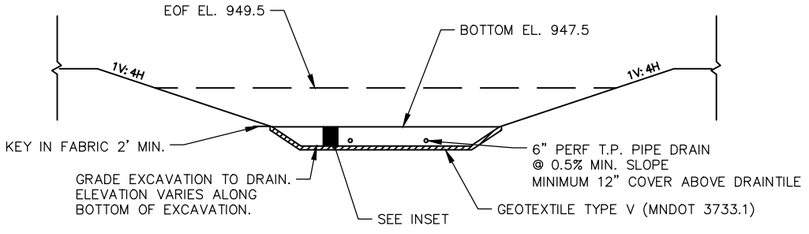
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2. UNDERDRAIN REQUIREMENTS
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INSET



TYPICAL PVC PIPE DRAIN CLEANOUT DETAIL



FILTRATION BASIN SECTION A-A

0 10 20 40
HORIZONTAL
SCALE IN FEET

UNDERDRAIN TABULATION

CLEANOUT (CO) NUMBER	CO RIM ELEVATION	INVERT ELEVATION	PIPE SLOPE	6" PVC PIPE (LIN FT)	6" PERF PVC PIPE (LIN FT)	6" PVC PIPE DRAIN CLEANOUT (EACH)	GUIDE POST TYPE B (EACH)
CO06	950.0	946.21	0.5%	30	112	2	1
CO07	950.0	946.13	0.5%	30	96	2	1
SUBTOTAL				60	208	4	2

No.	Date	Revisions	App.

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DESIGNED BY: ART
DRAWN BY: KMA
CHECKED BY: MAK
DATE: 2/20/2026
PROJECT NO. 25-02

Kimley»Horn
11995 SINGLETREE LANE, SUITE 225, EDEN PRAIRIE, MN 55344
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ADAM R. TJADEN
DATE: 2/20/2026 MN LIC. NO. 59337

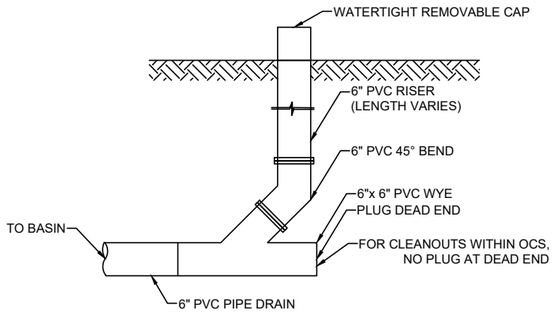
CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

BMP GRADING PLAN
AND DETAILS

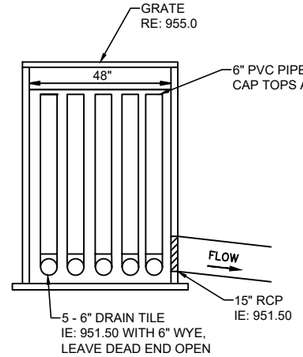
CITY PROJECT 25-02
S.A.P. 194-123-002

SHEET NO. 96 / 169

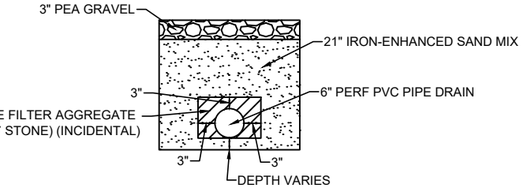
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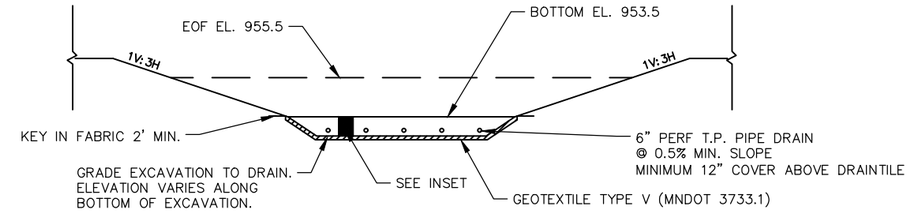
TYPICAL PVC PIPE DRAIN CLEANOUT DETAIL



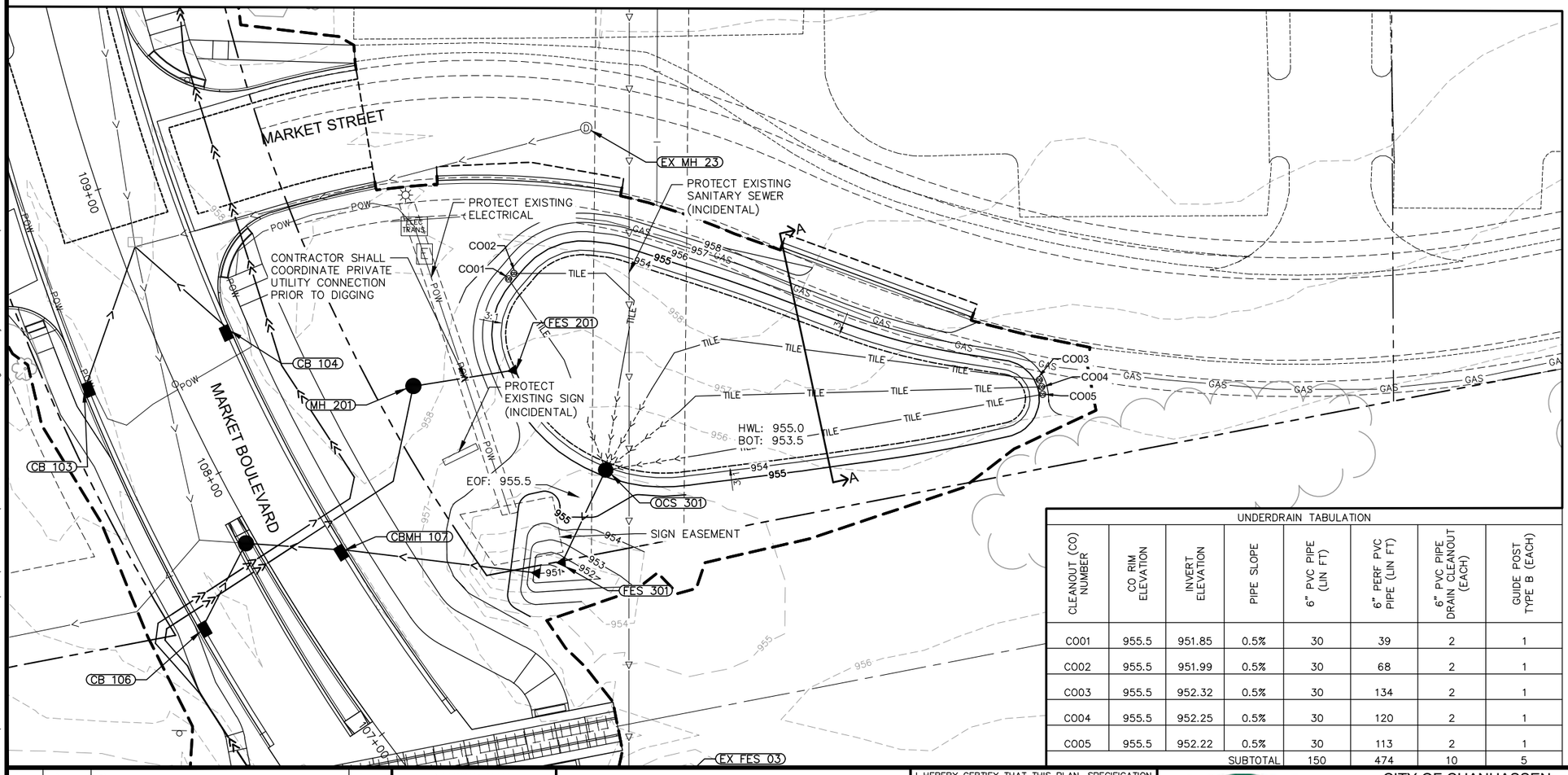
OCS STRUCTURE DETAIL
NOT TO SCALE



INSET



FILTRATION BASIN SECTION A–A



LEGEND

- INPLACE CONTOURS
- PROPOSED CONTOURS
- 6" PERF PVC DRAINTILE
- 6" PVC PIPE DRAIN
- 6" PVC CLEAN OUT
- SLOPE
- BASIN BOTTOM

NOTES:

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HORIZONTAL SCALE IN FEET: 0 10 20 40

UNDERDRAIN TABULATION

CLEANOUT (CO) NUMBER	CO RIM ELEVATION	INVERT ELEVATION	PIPE SLOPE	6" PVC PIPE (LIN FT)	6" PERF PVC PIPE (LIN FT)	6" PVC PIPE DRAIN CLEANOUT (EACH)	GUIDE POST TYPE B (EACH)
CO01	955.5	951.85	0.5%	30	39	2	1
CO02	955.5	951.99	0.5%	30	68	2	1
CO03	955.5	952.32	0.5%	30	134	2	1
CO04	955.5	952.25	0.5%	30	120	2	1
CO05	955.5	952.22	0.5%	30	113	2	1
			SUBTOTAL	150	474	10	5

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CITY OF CHANHASSEN
MARKET BOULEVARD
2026 IMPROVEMENTS

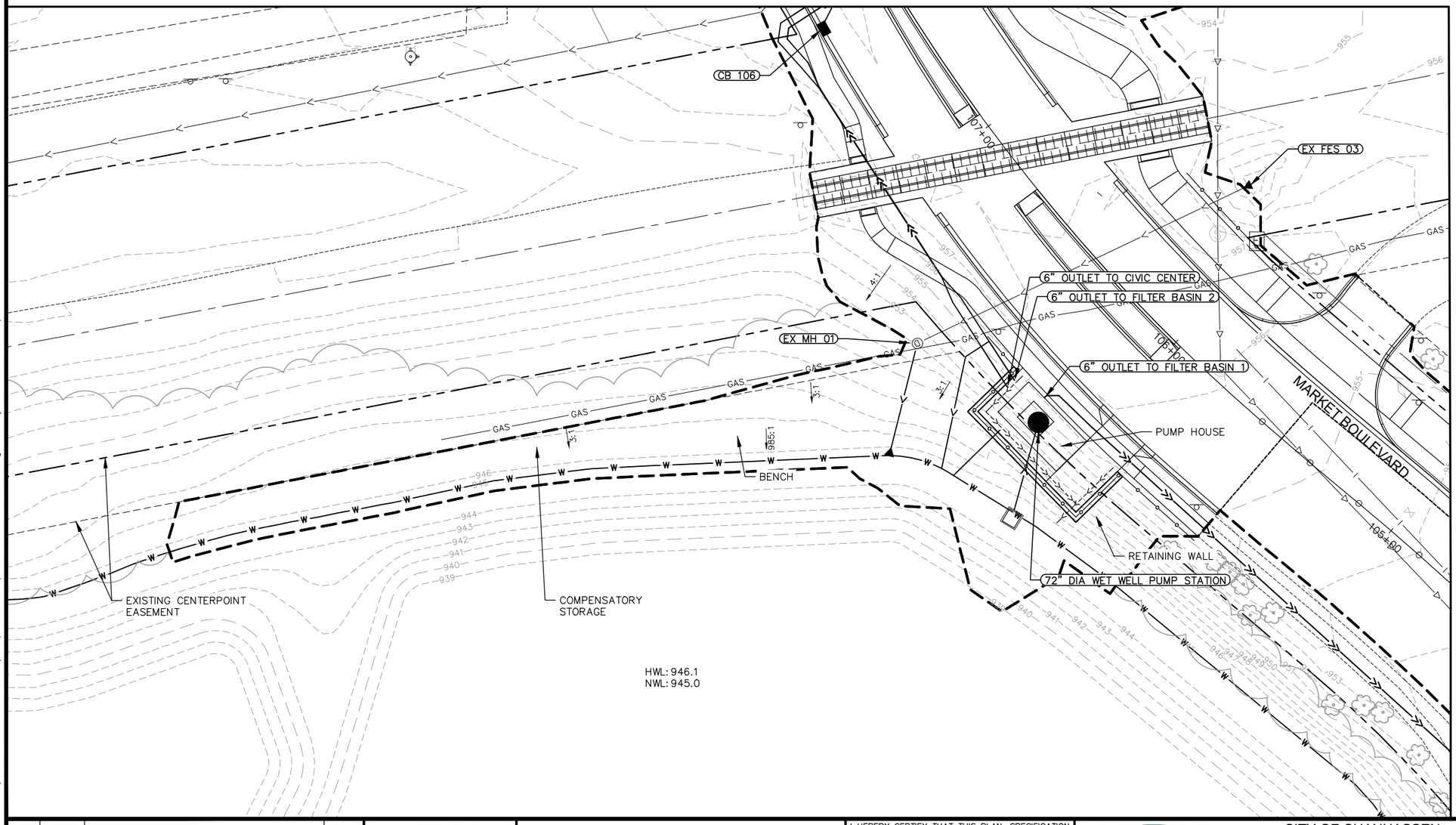
BMP GRADING PLAN
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CITY PROJECT 25–02
S.A.P. 194–123–002

SHEET NO. 97 / 169

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Pump House Earthwork Summary	
Live Storage Impact	204 cu yds (Fill)
Compensatory Storage	218 cu yds (Cut)



LEGEND

- 900 / 901 — INPLACE CONTOURS
- 900 / 901 — PROPOSED CONTOURS
- TILE — 6" PERF PVC DRAINTILE
- 6" PVC PIPE DRAIN
- 6" PVC CLEAN OUT
- 4:1 — SLOPE
- BASIN BOTTOM

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0 10 20 40
HORIZONTAL SCALE IN FEET

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DRAWING NAME	2026-MARKET-GRADING.dwg
DESIGNED BY:	RJG
DRAWN BY:	RJG
CHECKED BY:	MAK
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