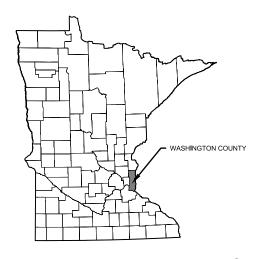
Appendix A

Project Plans

3M -OAKDALE SURFACE WATER DIVERSION PROJECT OAKDALE, MN



MINNESOTA COUNTY MAP

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GOPHER STATE ONE CALL: CALL BEFORE YOU DIG. 1-800-252-1166

GRENDAAE	UPPER 35TH ST N
Rom	35TH ST N CONSTRUCTION EXTENTS CSAH 14 34TH ST N
EXISTING FLOW PAT	A COM 33RD ST N FLOW FLOW FLOW
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PROJECT LOCATION MAP



AS SHOWN Project Office: BARR ENGINEERING CO. 09/25/2024 ЗM BARR 4300 MARK SUITE 200 4300 MARKETPOINTE DRIVE JNJ/EMO MRM/DJF/ADC OAKDALE, MN MINNEAPOLIS, MN 55435 DRAFT 30% ISSUED FOR PERMITTING & DESIGN DEVELOPMENT, NOT FOR CONSTRUCTION A B C 0 1 2 3 Ph: 1-800-632-2277 Fax: (952) 832-2601 BARR IRM 25SEP20 RELEASED inneapolis, Minnesota n: 1-800-632-2277 BY CHK APP DATE **REVISION DESCRIPTION** TO/FOR DATE RELEASED ----

INDEX OF SHEETS

61.1 EXISTING CONDITIONS 61.2 EXISTING CONDITIONS 61.3 EXISTING CONDITIONS 61.4 EXISTING WETLAND INVENTORY AND IMPACTS 61.5 EXISTING WETLAND INVENTORY AND IMPACTS 61.6 EXISTING TREE SURVEY 61.7 EXISTING TREE SURVEY 61.7 EXISTING TREE SURVEY 61.7 EXISTING TREE SURVEY 61.7 EXISTING TREE SURVEY 501.0 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.2 STORM SEWER PLAN/PROFILE 2 OF 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 2 OF 6 C2.7 STORM SEWER PLAN	G1.0	PROJECT LOCATION AND SHEET INDEX
G1.3 EXISTING CONDITIONS G1.4 EXISTING WETLAND INVENTORY AND IMPACTS G1.5 EXISTING WETLAND INVENTORY AND IMPACTS G.16 EXISTING TREE SURVEY G1.7 EXISTING TREE SURVEY G1.7 EXISTING TREE SURVEY SW1.0 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SV1.4 EROSION AND SEDIMENT CONTROL PLAN SV1.4 EROSION AND PAVING PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.2 STORM SEWER PLAN/PROFILE 10F 6 C2.3 STORM SEWER PLAN/PROFILE 10F 6 C2.4 STORM SEWER PLAN/PROFILE 10F 6 C2.5 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 6 OF 6 C3.1 SECTIONS - 2 OF 3	G1.1	EXISTING CONDITIONS
G1.4 EXISTING WETLAND INVENTORY AND IMPACTS G1.5 EXISTING WETLAND INVENTORY AND IMPACTS G.16 EXISTING TREE SURVEY G1.7 EXISTING TREE SURVEY SW1.0 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.3 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTILITY PLAN C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C3.3 STORM SEWER PLAN/PROFILE 2 OF 6 C3.4 STORM SEWER PLAN/PROFILE 2 OF 6 C3.4 STORM SEWER PLAN/PROFILE 5 OF 6 C3.4 STORM SEWER PLAN/PROFILE 5 OF 6 C3.1 SECTIONS - 2 OF 3 C3.2 STORM SEWER PLAN/PROFI	G1.2	EXISTING CONDITIONS
G1.5 EXISTING WETLAND INVENTORY AND IMPACTS G.16 EXISTING TREE SURVEY G1.7 EXISTING TREE SURVEY G1.7 EXISTING TREE SURVEY SW1.0 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.3 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALU UTLITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTLITY PLAN C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 2 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C3.9 SECTIONS - 1 OF 3 </td <td>G1.3</td> <td>EXISTING CONDITIONS</td>	G1.3	EXISTING CONDITIONS
G.16 EXISTING TREE SURVEY G1.7 EXISTING TREE SURVEY SW1.0 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.3 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTLITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTLITY PLAN C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C3.7 STORM SEWER PLAN/PROFILE 5 OF 6 C3.0 SECTIONS - 1 OF 3 C3.1 STORMWATER BASIN - PLAN, SECTION C4.1 STORMWATER BASIN - PLAN, SECTIO	G1.4	EXISTING WETLAND INVENTORY AND IMPACTS
G1.7 EXISTING TREE SURVEY SW1.0 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.3 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTILITY PLAN C2.2 STORM SEWER PLAN/PROFILE 10 F6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C3.0 SECTIONS - 1 OF 3 C3.1 SECTIONS - 3 OF 3 C3.2 SECTIONS - 3 OF 3 C3.4 STORMWATER BASIN - PROFILES C4.1 STORMWATER BASIN - PLAN, SECTION AND DETAILS C5.2 STORMWATER BASIN - PLAN, SECTION SAND D	G1.5	EXISTING WETLAND INVENTORY AND IMPACTS
SW1.0 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.3 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTILITY PLAN C2.2 STORM SEWRE PLAN/PROFILE 1 OF 6 C2.3 STORM SEWRE PLAN/PROFILE 2 OF 6 C2.4 STORM SEWRE PLAN/PROFILE 3 OF 6 C2.7 STORM SEWRE PLAN/PROFILE 5 OF 6 C2.7 STORM SEWRE PLAN/PROFILE 5 OF 6 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 2 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 2 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 STORMWATER BASIN - PROFILES C4.3 STORMWATER BASIN - PLAN,	G.16	EXISTING TREE SURVEY
STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.3 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTLITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTLITY PLAN C2.2 STORM SEWER PLAN/PROFILE 2 OF 6 C2.3 STORM SEWER PLAN/PROFILE 3 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C2.8 STORM SEWER PLAN/PROFILE 5 OF 6 C3.9 SECTIONS - 1 OF 3 C3.4 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.1 STORMWATER BASIN - PLAN,	G1.7	EXISTING TREE SURVEY
STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SW1.2 EROSION AND SEDIMENT CONTROL PLAN SW1.3 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTLITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTLITY PLAN C2.2 STORM SEWER PLAN/PROFILE 2 OF 6 C2.3 STORM SEWER PLAN/PROFILE 3 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C2.8 STORM SEWER PLAN/PROFILE 5 OF 6 C3.9 SECTIONS - 1 OF 3 C3.4 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.1 STORMWATER BASIN - PLAN,		
SW12 EROSION AND SEDIMENT CONTROL PLAN SW13 EROSION AND SEDIMENT CONTROL PLAN SW14 EROSION AND SEDIMENT CONTROL PLAN SW14 EROSION AND SEDIMENT CONTROL DETAILS C10 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTLITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTLITY PLAN C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 6 OF 6 C3.0 SECTIONS - 1 OF 3 C3.1 STORM SEWER PLAN/PROFILE 5 OF 6 C3.2 SECTIONS - 3 OF 3 C3.2 SECTIONS - 1 OF 3 C3.1 STORMWATER BASIN - PLAN, SECTION AND BETAILS C4.2 STORMWATER BASIN - PLAN, SECTIONS	SW1.0	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
SW1.3 EROSION AND SEDIMENT CONTROL PLAN SW1.4 EROSION AND SEDIMENT CONTROL DETAILS SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTILITY PLAN C2.2 STORM SEWER PLAN/PROFILE 10 F 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C3.0 SECTIONS - 1 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 3 OF 3 C4.1 STORMWATER BASIN - PROFILES C4.2 STORMWATER BASIN - PLAN, SECTION AND BETAILS C4.3 STORMWATER BASIN - DETAILS C5.0 STORMWATER BASIN - DETAILS C5.1 STORMWATER BASIN - DETAILS C5.2	SW1.1	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
SW1.4 EROSION AND SEDIMENT CONTROL DETAILS C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTILITY PLAN C2.2 STORM SEWER PLAN/PROFILE 10F 6 C2.3 STORM SEWER PLAN/PROFILE 20F 6 C2.4 STORM SEWER PLAN/PROFILE 30F 6 C2.5 STORM SEWER PLAN/PROFILE 40F 6 C2.6 STORM SEWER PLAN/PROFILE 50F 6 C2.7 STORM SEWER PLAN/PROFILE 50F 6 C2.7 STORM SEWER PLAN/PROFILE 50F 6 C3.1 SECTIONS - 20F 3 C3.2 SECTIONS - 20F 3 C3.1 SECTIONS - 20F 3 C3.2 SECTIONS - 20F 3 C3.1 SECTIONS - 20F 3 C3.2 SECTIONS - 20F 3 C3.1 SECTIONS - 20F 3 C3.2 SECTIONS - 20F 3 C3.1 SECTIONS - 20F 3 C3.2 STORMWATER BASIN - PETALS	SW1.2	EROSION AND SEDIMENT CONTROL PLAN
C1.0 REMOVALS PLAN C1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTILITY PLAN C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C2.3 STORM SEWER PLAN/PROFILE 1 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 5 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 6 OF 6 C3.1 SECTIONS - 2 OF 3 C3.1 SECTIONS - 2 OF 3 C3.1 SECTIONS - 2 OF 3 C4.1 STORMWATER BASIN - PLAN AND SECTION C4.2 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.3 STORMWATER BASIN - DETAILS C5.0 STORMWATER BASIN - PLAN, SECTION AND DETAILS C5.1 STORMWATER ASIN - MARK CONTROL STAUCTURE - PLAN AND SECTION C5.2 STORMWATER ASIN - MARK CONTROL STAUCTURE - PLAN AND SECTION C5.1 S	SW1.3	EROSION AND SEDIMENT CONTROL PLAN
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1.1 REMOVALS PLAN C1.2 SITE GRADING AND PAVING PLAN C1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTLITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTLITY PLAN C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C3.0 SECTIONS - 1 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 3 OF 3 C4.1 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.2 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.3 STORMWATER BASIN WATER CONTROL STRUCTURE - PLAN AND SECTION C4.3 STORMWATER ASIN WATER CONTROL STRUCTURE - PLAN AND SECTION C5.0		
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1.3 SITE GRADING AND PAVING PLAN C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 6 OF 6 C3.0 SECTIONS - 2 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 2 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 2 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 3 OF 3 C4.1 STORMWATER BASIN - PROFILES C4.2 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.3 STORMWATER BASIN - DETAILS C5.0 STORMWATER ASIN NOTELLISS C5.1 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND	C1.1	REMOVALS PLAN
C1.4 SITE GRADING AND PAVING PLAN C2.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY C2.1 HADLEY INTERSECTION UTILITY PLAN C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 3 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 6 OF 6 C3.1 SECTIONS - 2 OF 3 C3.1 SECTIONS - 2 OF 3 C4.1 STORMWATER BASIN - PLAN AND SECTION C4.2 STORMWATER BASIN - PLAN AND SECTION C4.3 STORMWATER BASIN - PLAN AND SECTION C4.4 STORMWATER BASIN - DETAILS C5.0 STORMWATER BASIN - DETAILS C5.1 STORMWATER BASIN - DETAILS C5.2 STORMWATER ASIN - DETAILS C5.3 STORMWATER ASIN - DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 <	C1.2	SITE GRADING AND PAVING PLAN
22.0 OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY 22.1 HADLEY INTERSECTION UTILITY PLAN 22.2 STORM SEWER PLAN/PROFILE 1 OF 6 2.3 STORM SEWER PLAN/PROFILE 2 OF 6 2.4 STORM SEWER PLAN/PROFILE 3 OF 6 2.5. STORM SEWER PLAN/PROFILE 4 OF 6 2.6. STORM SEWER PLAN/PROFILE 5 OF 6 2.7 STORM SEWER PLAN/PROFILE 5 OF 6 2.6 STORM SEWER PLAN/PROFILE 6 OF 6 2.7 STORM SEWER PLAN/PROFILE 6 OF 6 2.6 STORM SEWER PLAN/PROFILE 6 OF 6 2.7 STORM SEWER PLAN/PROFILE 5 OF 6 2.7 STORM SEWER PLAN/PROFILE 5 OF 6 2.7 STORM SEWER PLAN/PROFILE 5 OF 6 2.8 SECTIONS - 2 OF 3 2.1 SECTIONS - 2 OF 3 2.2 SECTIONS - 3 OF 3 2.1 STORMWATER BASIN - PLAN AND SECTION C4.1 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.2 STORMWATER BASIN - DETAILS C4.3 STORMWATER BASIN - DETAILS C5.0 STORMWATER BASIN - DETAILS C5.1 STORMWATER ASIN - DETAILS C5.2 STORMWATER ASIN - DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 <td>C1.3</td> <td>SITE GRADING AND PAVING PLAN</td>	C1.3	SITE GRADING AND PAVING PLAN
22.1 HADLEY INTERSECTION UTILITY PLAN C2.2 STORM SEWER PLAN/PROFILE 1 OF 6 C2.3 STORM SEWER PLAN/PROFILE 2 OF 6 C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 5 OF 6 C2.6 STORM SEWER PLAN/PROFILE 6 OF 6 C3.0 SECTIONS - 1 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 3 OF 3 C3.2 SECTIONS - 3 OF 3 C3.2 SECTIONS - 3 OF 3 C4.1 STORMWATER BASIN - PLAN AND SECTION C4.3 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.4 STORMWATER BASIN - DETAILS C5.0 STORMWATER ASIN WATER CONTROL STRUCTURE - PLAN AND SECTIONS C5.1 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS<	C1.4	SITE GRADING AND PAVING PLAN
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C2.4 STORM SEWER PLAN/PROFILE 3 OF 6 C2.5 STORM SEWER PLAN/PROFILE 3 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C3.7 STORM SEWER PLAN/PROFILE 6 OF 6 C3.0 SECTIONS - 1 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 2 OF 3 C3.1 STORM WATER BASIN - PLAN AND SECTION C4.1 STORMWATER BASIN - PLAN AND SECTION C4.3 STORMWATER BASIN - PLAN AND SECTION AND DETAILS C4.4 STORMWATER BASIN - DETAILS C4.5 STORMWATER BASIN - DETAILS C5.0 STORMWATER BASIN - DETAILS C5.1 STORMWATER BASIN - DETAILS C5.2 STORMWATER ASIN - DETAILS C5.3 STORMWATER ASIN - DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.6 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.7 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS	C2.2	STORM SEWER PLAN/PROFILE 1 OF 6
C2.5 STORM SEWER PLAN/PROFILE 4 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 6 OF 6 C3.1 SECTIONS - 1 OF 3 C3.1 SECTIONS - 2 OF 3 C4.1 STORMWATER BASIN - PROFILES C4.2 STORMWATER BASIN - PLAN AND SECTION C4.3 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.4 STORMWATER BASIN - DETAILS C4.5 STORMWATER BASIN - DETAILS C5.0 STORMWATER BASIN - DETAILS C5.1 STORMWATER BASIN - DETAILS C5.2 STORMWATER ASIN - DETAILS C5.3 STORMWATER ASIN - DETAILS C5.4 STORMWATER ASIN - DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.6 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS	C2.3	STORM SEWER PLAN/PROFILE 2 OF 6
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22.6 STORM SEWER PLAN/PROFILE 5 OF 6 C2.7 STORM SEWER PLAN/PROFILE 6 OF 6 C3.0 SECTIONS - 1 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 3 OF 3 C4.1 STORMWATER BASIN - PROFILES C4.2 STORMWATER BASIN - PLAN AND SECTION C4.3 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.4 STORMWATER BASIN - DETAILS C5.0 STORMWATER BASIN - DETAILS C5.1 STORMWATER BASIN - DETAILS C5.2 STORMWATER ASIN - DETAILS C5.3 STORMWATER TYPICAL PLANS, AND SECTIONS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.6 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS		STORM SEWER PLAN/PROFILE 4 OF 6
C3.0 SECTIONS - 1 OF 3 C3.1 SECTIONS - 2 OF 3 C3.2 SECTIONS - 3 OF 3 C4.1 STORMWATER BASIN - PROFILES C4.1 STORMWATER BASIN - PLAN, AND SECTION C4.3 STORMWATER BASIN - PLAN, SECTION AND DETAILS C4.4 STORMWATER BASIN - DETAILS C4.5 STORMWATER BASIN - DETAILS C5.0 STORMWATER RASIN - DETAILS C5.1 STORMWATER ASIN - DETAILS C5.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.6 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.7 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.8 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.9 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS	C2.6	STORM SEWER PLAN/PROFILE 5 OF 6
SECTIONS - 2 OF 3 C3.2 SECTIONS - 3 OF 3 C4.1 STORNIWATER BASIN - PROFILES C4.2 STORNIWATER BASIN - PLAN, AND SECTION C4.3 STORNIWATER BASIN - PLAN, SECTION AND DETAILS C4.4 STORNIWATER BASIN - DETAILS C4.4 STORNIWATER BASIN - DETAILS C5.0 STORNIWATER BASIN - DETAILS C5.1 STORNIWATER RASIN - DETAILS C5.2 STORNIWATER ASIN - DETAILS C5.3 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORNIWATER - TYPICAL PLANS, SECTIONS AND DETAILS	C2.7	STORM SEWER PLAN/PROFILE 6 OF 6
C3.2 SECTIONS – 3 OF 3 C4.1 STORMWATER BASIN – PROFILES C4.2 STORMWATER BASIN – PLAN, SECTION C4.3 STORMWATER BASIN – PLAN, SECTION AND DETAILS C4.4 STORMWATER BASIN – DETAILS C4.5 STORMWATER BASIN – DETAILS C5.0 STORMWATER RASIN – DETAILS C5.1 STORMWATER ASIN – DETAILS C5.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.6 STORMWATER – TYPICAL PLANS, SECTIONS AND DETAILS C5.7 STORMWATER – TYPICAL P	C3.0	SECTIONS - 1 OF 3
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c4:3 STORMWATER BASIN - PLAN, SECTION AND DETAILS c4:4 STORMWATER BASIN WATER CONTROL STRUCTURE - PLAN AND SECTION c4:5 STORMWATER BASIN - DETAILS c5:0 STORMWATER - TYPICAL PLANS AND SECTIONS c5:1 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS c5:2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS c5:3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS c5:4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS c5:5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS c1:0 SITE RESTORATION PLAN 11:0 SITE RESTORATION PLAN	C4.2	STORMWATER BASIN - PLAN AND SECTION
C4.5 STORMWATER BASIN - DETAILS C5.0 STORMWATER - TYPICAL PLANS AND SECTIONS C5.1 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS L1.0 SITE RESTORATION PLAN L1.1 SITE RESTORATION PLAN	C4.3	
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CS.1 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS CS.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS CS.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS CS.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS CS.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS L1.0 SITE RESTORATION PLAN L1.1 STER RESTORATION PLAN	C5.0	STORMWATER - TYPICAL PLANS AND SECTIONS
C5.2 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.3 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS L1.0 SITE RESTORATION PLAN L1.1 SITE RESTORATION PLAN	C5.1	
C3.4 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS C5.5 STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS L1.0 SITE RESTORATION PLAN L1.1 SITE RESTORATION PLAN		STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS
CS.S STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS L1.0 SITE RESTORATION PLAN L1.1 SITE RESTORATION PLAN	C5.3	STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS
L1.0 SITE RESTORATION PLAN L1.1 SITE RESTORATION PLAN	C5.4	STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS
L1.1 SITE RESTORATION PLAN	C5.5	STORMWATER - TYPICAL PLANS, SECTIONS AND DETAILS
L1.1 SITE RESTORATION PLAN		
L1.1 SITE RESTORATION PLAN	L1.0	SITE RESTORATION PLAN
	L1.2	SITE RESTORATION DETAILS
L1.3 SITE RESTORATION DETAILS		

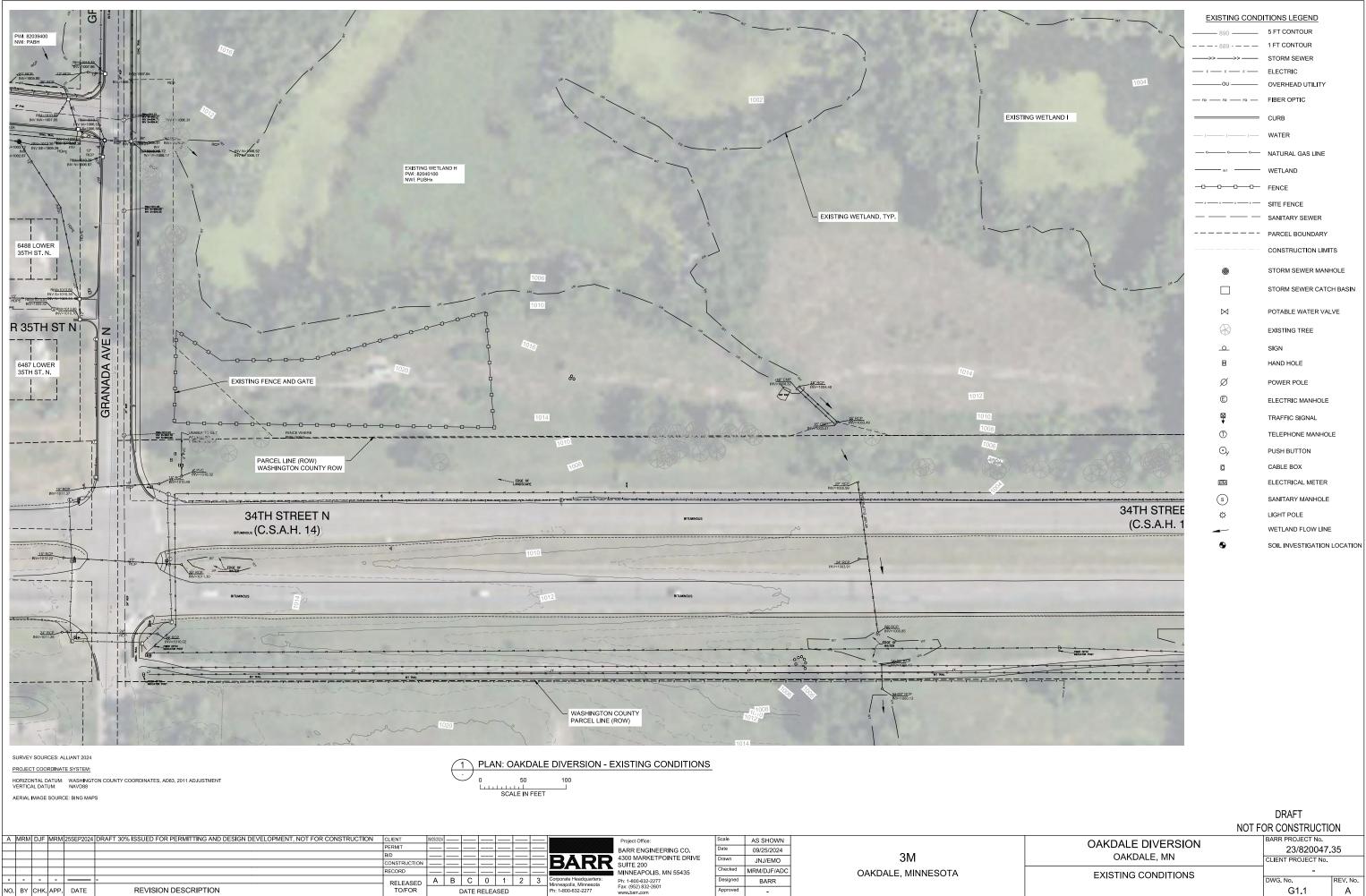
DRAWING NO. PREFIX KEY:

SW - STORMWATER EROSION/SEDIMENT CONTROL C - CIVIL S - STRUCTURAL L - LANDSCAPE B - GEOTECHNICAL (BORING LOGS)

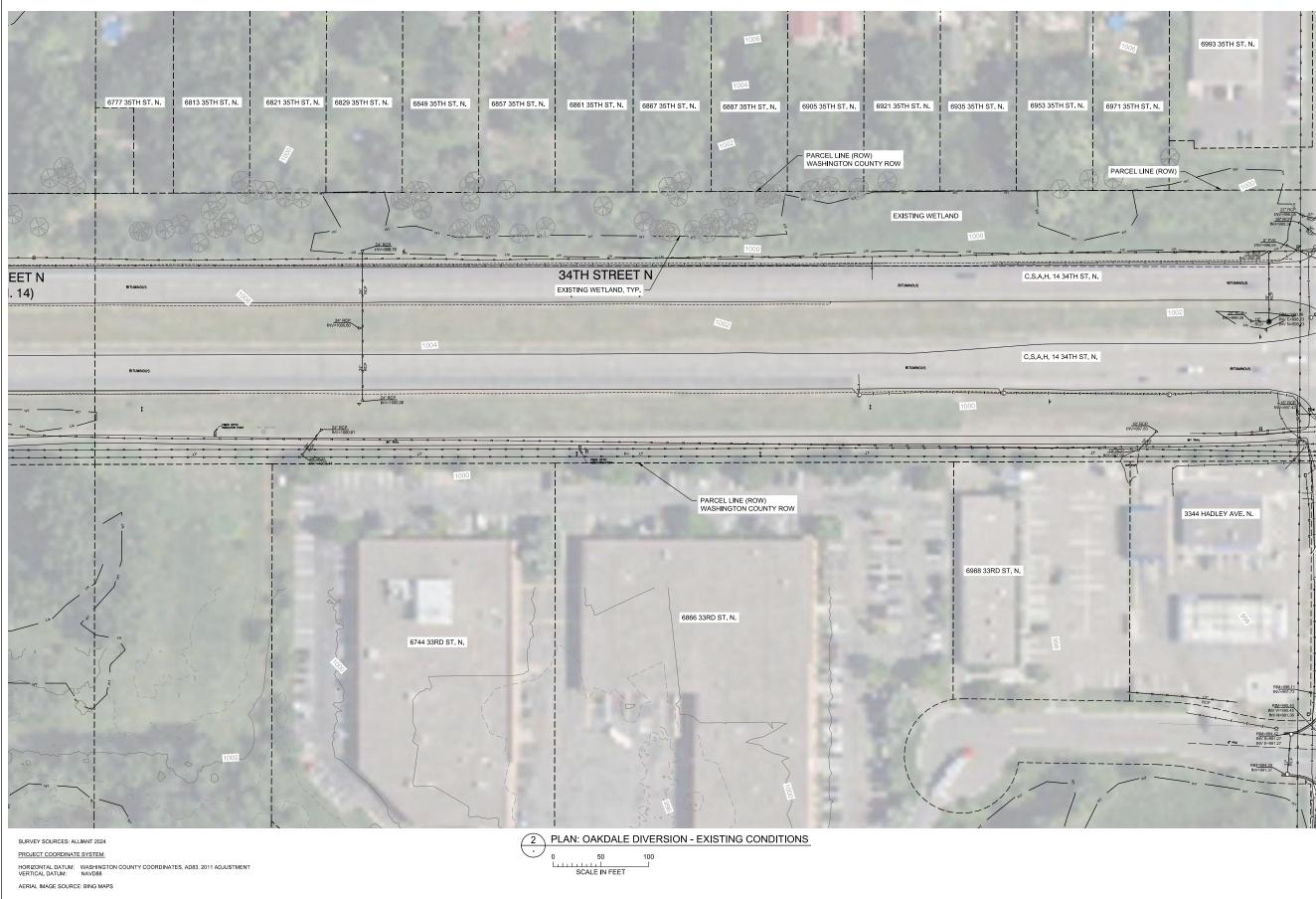
PROJECT COORDINATE SYSTEM:

HORIZONTAL: WASHINGTON COUNTY COORDINATES, NAD83, 2011 ADJUSTMENT (US SURVEY FEET) VERTICAL: NAVD88 (FEET)

NOT F	DRAFT OR CONSTRUCTIO	ON		
OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047.35 CLIENT PROJECT No.			
PROJECT LOCATION AND SHEET INDEX	DWG. No. G1.0	REV. No. A		



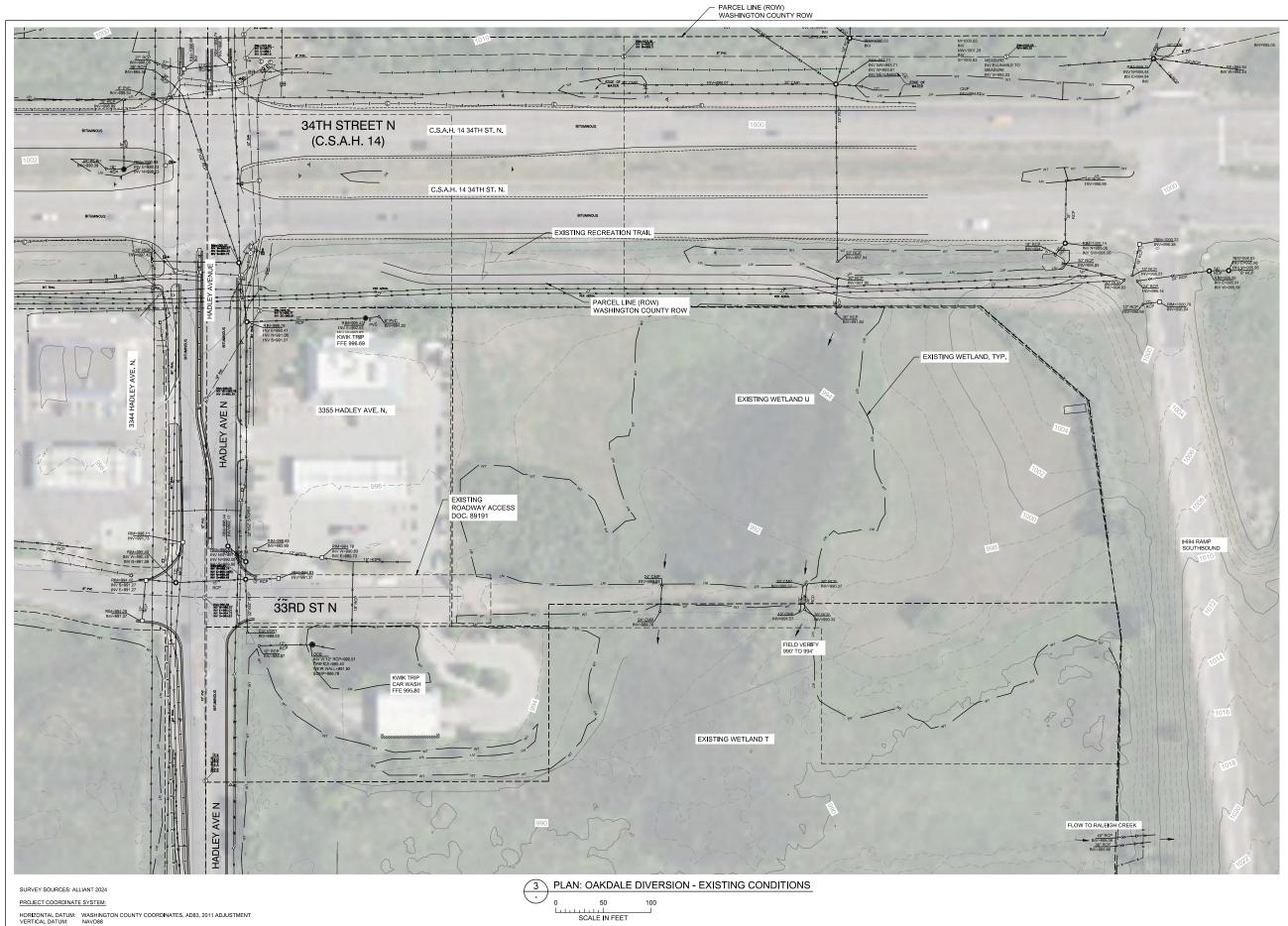
OAKDALE DIVERSION	BARR PROJECT No.			
	23/820047.35			
OAKDALE, MN	CLIENT PROJECT No.			
EXISTING CONDITIONS	-			
	DWG. No.	REV. N		
	G1 1	A		



	MRI	/ DJF	MRM	125SEP2024	DRAFT 30% ISSUED FOR PERMITTING AND DESIGN DEVELOPMENT, NOT FOR CONSTRUCTION	CLIENT	09/25/2024								Project Office:	Scale	AS SHOWN	
						PERMIT					—				BARR ENGINEERING CO.	Date	09/25/2024	
						BID			—					DADD	4300 MARKETPOINTE DRIVE	Drawn		3M
						CONSTRUCTION								BARR	SUITE 200		JNJ/EMO	0111
						RECORD					—				MINNEAPOLIS, MN 55435	Checked	MRM/DJF/ADC	OAKDALE. MINNESOTA
	-	-	-		-	RELEASED	A	В	С	0	1	2	3	Corporate Headquarters:	Ph: 1-800-632-2277	Designed	BARR	o, a (b) (22, 100 (120 o 17))
N). Вү	снк.	APP.	. DATE	REVISION DESCRIPTION	TO/FOR			DATE RE		ELEASED			Minneapolis, Minnesota Ph: 1-800-632-2277			Approved _	

EXISTING CONDITIONS LEGEND					
890	5 FT CONTOUR				
	1 FT CONTOUR				
>>	STORM SEWER				
ε — ε — ε —	ELECTRIC				
OU	OVERHEAD UTILITY				
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OAKDALE, MN	CLIENT PROJECT No.		
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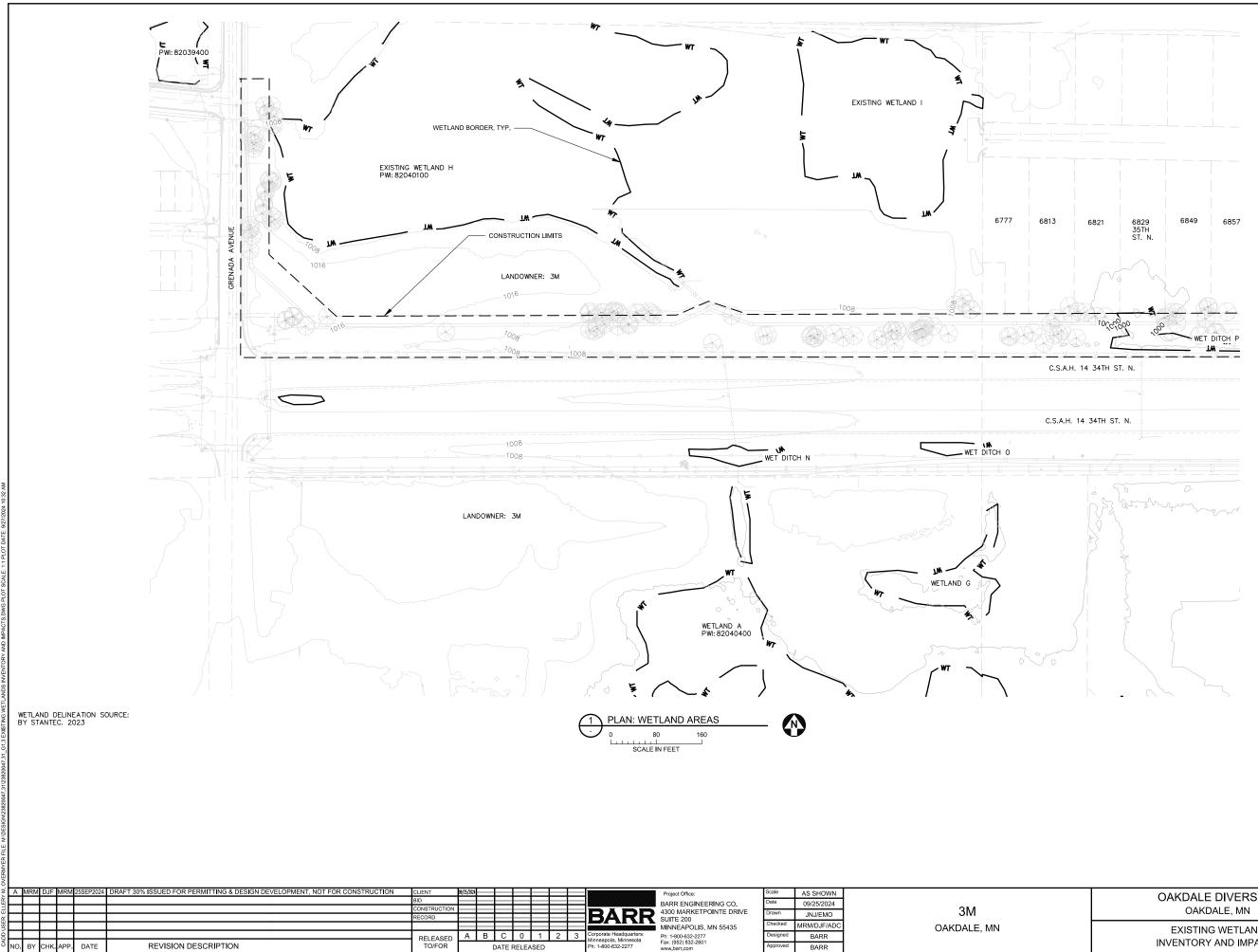
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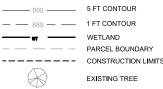
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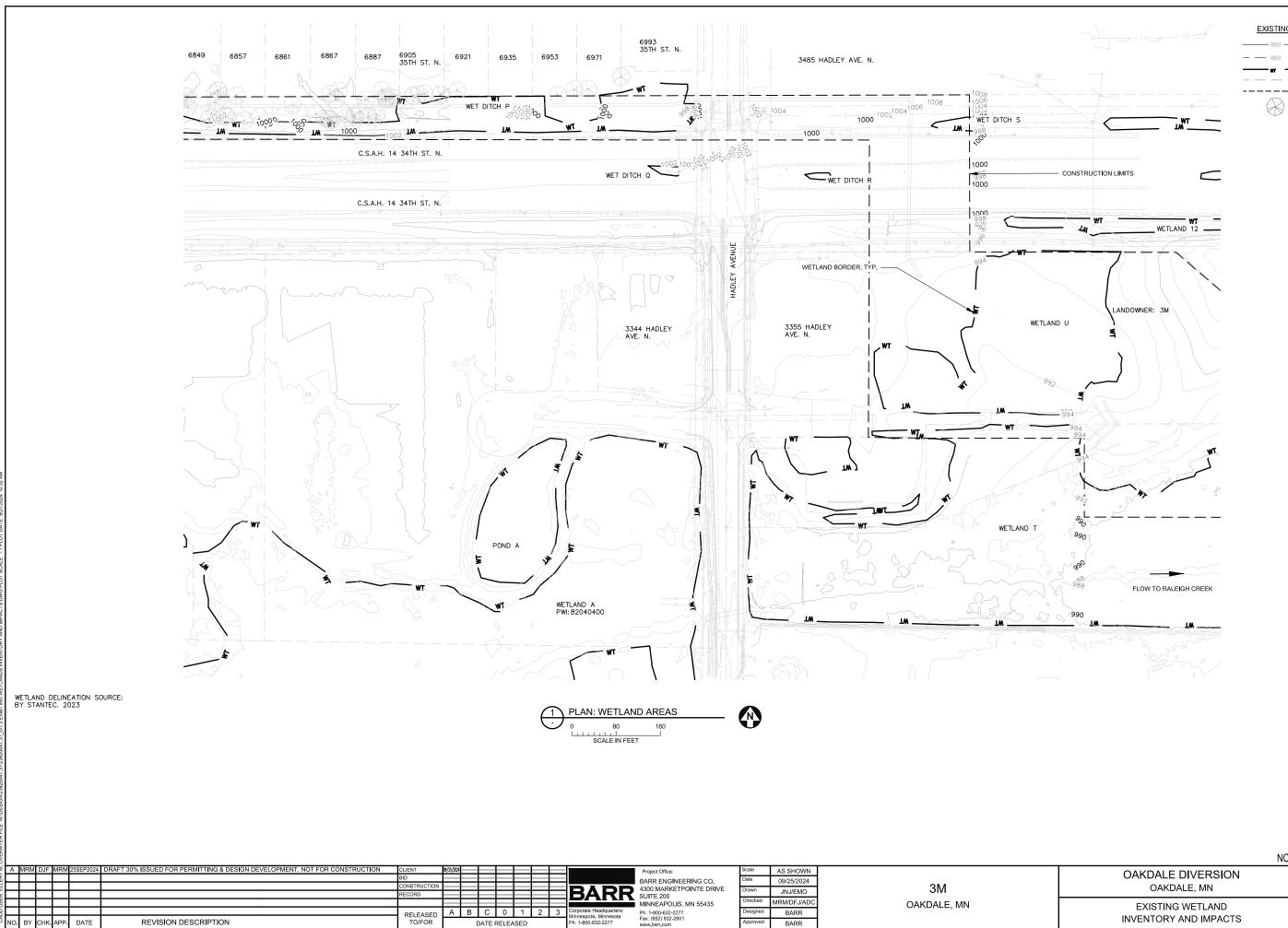
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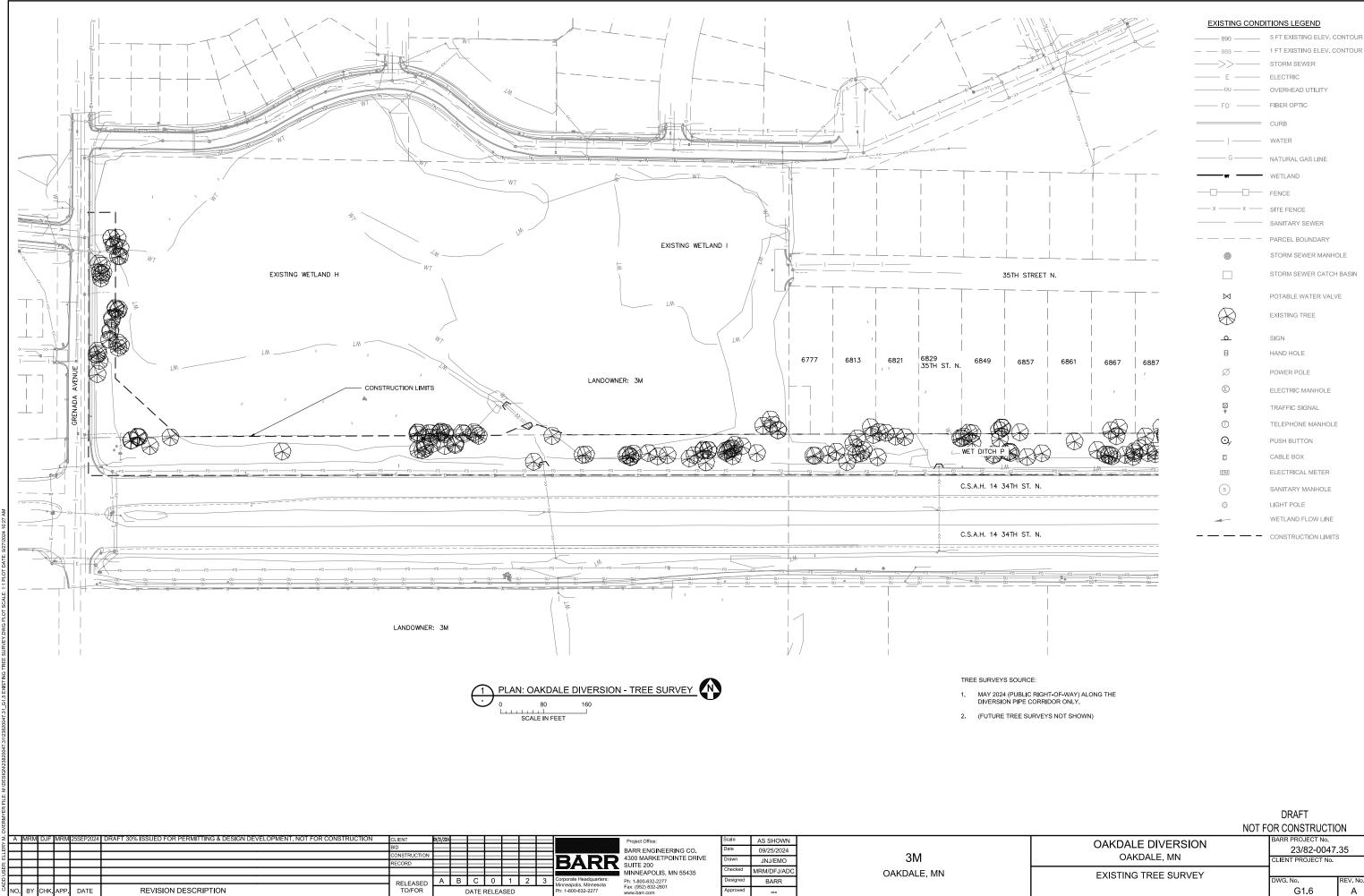


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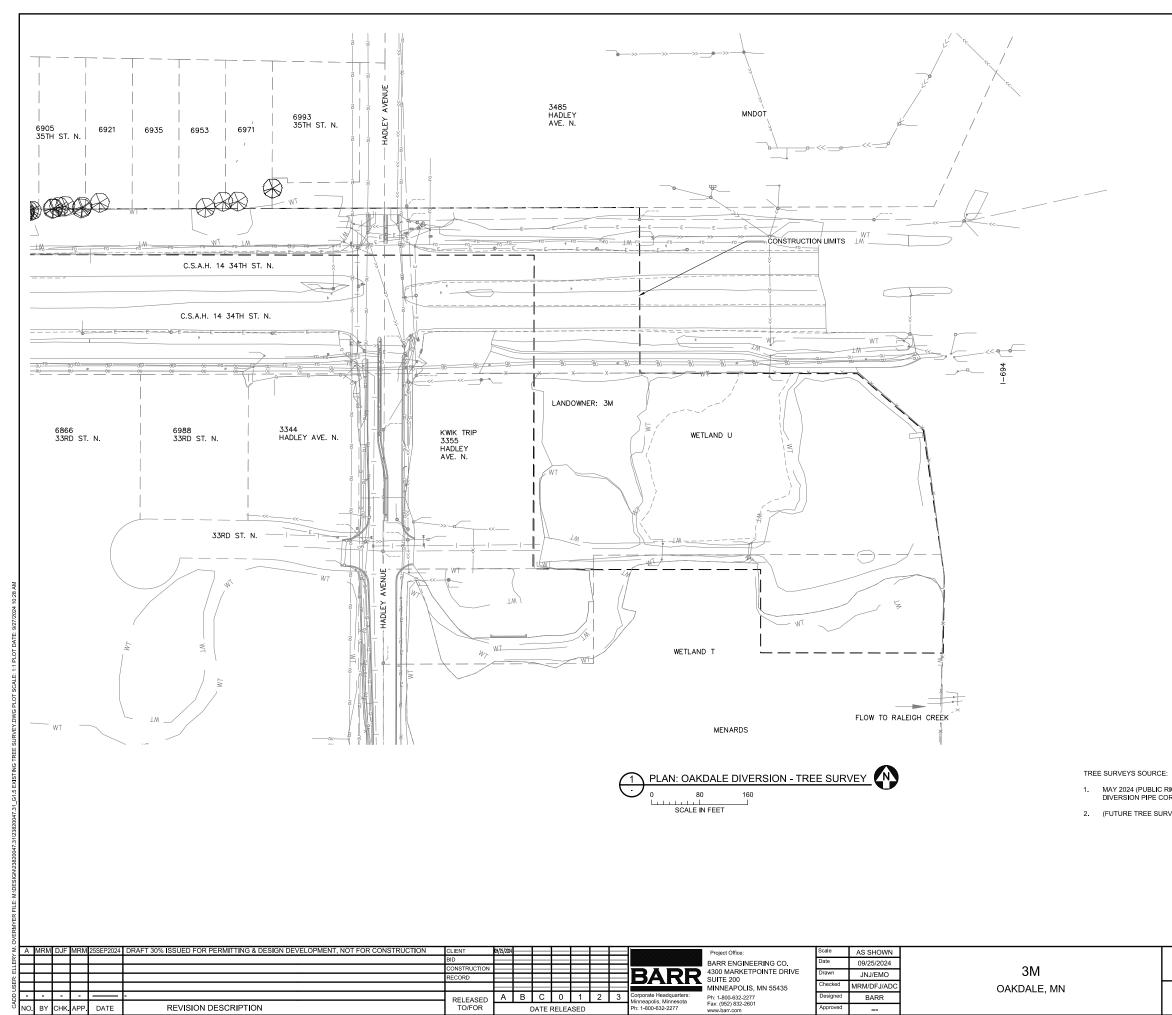
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OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047.35 CLIENT PROJECT No.		
EXISTING TREE SURVEY	DWG. No. G1.6	REV. No. A	



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1. MAY 2024 (PUBLIC RIGHT-OF-WAY) ALONG THE DIVERSION PIPE CORRIDOR ONLY.

2. (FUTURE TREE SURVEYS NOT SHOWN)

NOT F	DRAFT OR CONSTRUCTIO	ON	
OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT №. 23/82-0047.35 CLIENT PROJECT №.		
EXISTING TREE SURVEY	DWG. No. G1.7	REV. No. A	

1.0 GENERAL CONSTRUCTION ACTIVITY INFORMATION:	S.0 PROJECT PLANS AND SPECIFICATIONS:
THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED IN COMPLIANCE WITH THE MINNESOTA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY NO. MNR100001 (GENERAL PERMIT), AS REQUIRED BY THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM.	 REQUIRED FEATURE PROJECT LOCATION AND CONSTRUCTION LIMITS EXISTING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES BY LIONS OF FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING BY LIONS OF
THE PROJECT IS LOCATED IN THE CITY OF OAKDALE, WASHINGTON COUNTY, MINNESOTA. PROPOSED CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHIN XXX. THE APPROXIMATE CENTROID OF THE PROJECT HAS A LATITUDE OF 44.9258019 AND A LONGITUDE OF -92.9601112.	FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING A SURFACE WATER A SURFACE WATER • SOIL TYPES AT THE SITE • LOCATIONS OF IMPERVIOUS SURFACES PREFUM
THIS PROJECT INVOLVES EROSION CONTROL, REMOVAL AND REPLACEMENT OF CURB AND GUTTER, BITUMINOUS PAVEMENT REMOVALS AND INSTALLATION, EXCAVATION AND GRADING, CREATION OF STORMWATER RETENTION BASIN, INSTALLATION OF STORMWATER DIVERSION PIPE, AND LANDSCAPING INCLUDING TREE REMOVAL AND REPLACEMENT. THE PROJECT, AS PROPOSED, HAS A TOTAL DISTURBANCE AREA OF XXX. REFER TO PROJECT DRAWINGS FOR FURTHER DETAILS. (CSW PERMIT PARTILIA:1) 1.1 PROJECT SIZE AND CUMULATIVE IMPERVIOUS SURFACE: THE ANTICIPATED AREA OF DISTURBANCE IS APPROXIMATELY XXX. • THE TOTAL AREA OF PRE-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY XXX. • THE TOTAL AREA OF PROST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY XXX. • THE TOTAL AREA OF PROST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY XXX. • THE TOTAL AREA OF DOST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY XXX. • THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY XXX. • THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY XXX. • ANTICIPATED START DATE: XXX • ANTICIPATED END DATE: XXX	LOCATIONS OF AREAS NOT BE BE DISTURBED (E.G., BUFFER ZONES, WETLANDS, ETC.) LOCATIONS OF AREAS OF STEEP SLOPES LOCATIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOILS LOCATIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AS REQUIRED IN PERMIT SECTIONS 8 THROUGH 10 AND 14 THROUGH 19 BUFFER ZONES AS REQUIRED IN PERMIT ITEMS 9.17 AND 23.11 LOCATIONS OF POTENTIAL POLLUTION-GENERATING ACTIVITIES IDENTIFIED IN PERMIT SECTION 12 N/A STANDARD DETAILS FOR EROSION AND SEDIMENT CONTROL BMPS TO BE INSTALLED AT THE SITE SW1.1
(• THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY XXX.	4.0 BEST MANAGEMENT PRACTICES (BMPS):
ANTICIPATED START DATE: XXX ANTICIPATED END DATE: XXX	4.1 EROSION PREVENTION PRACTICES:
1.3 CONTACT INFORMATION:	 METHODS OF TEMPORARILY STABILIZING SOILS AND SOIL STOCKPILES (E.G., MULCHES, HYDRAULIC TACKIFIERS, EROSION BLANKETS, ETC.): (CSW PERMIT ITEMS 8.4, 8.5, AND 23.9) AREAS OF EXPOSED SOIL WILL BE STABILIZED WITH ONE OF THE FOLLOWING: EROSION CONTROL BLANKET,
OWNER: XXX MAILING ADDRESS: XXX MALING ADDRESS: XXX TITLE: XXX CONTACT PERSON: XXX TITLE: XXX PHONE NUMBER: XXX EMAIL ADDRESS: XXX ALTERNATE CONTACT PERSON: XXX TITLE: XXX PHONE NUMBER: XXX EMAIL ADDRESS: XXX PHONE NUMBER: XXX EMAIL ADDRESS: XXX	 PRESERVATION OF MATURE VEGETATION, MULCH, VEGETATIVE SLASH, ETC. b. IF PRESENT, SOIL STOCKPILES WILL BE STABILIZED WITH ONE OF THE FOLLOWING MATERIALS: MULCH (SUCH AS STRAW MULCH, SLASH MULCH, WODD CHIP, OR OTHER APPROPRIATE MULCH) (IF SLOPES ≤3H:1V), COVER MATERIAL SUCH AS TARPS OR PLASTIC SHEETING, ETC. c. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS, AND SIMILAR SURFACES ARE EXEMPT FROM THESE
OPERATOR / GENERAL CONTRACTOR (WHO WILL OVERSEE IMPLEMENTATION OF THE SWPPP): TBD / MAILING ADDRESS: TBD / CONTACT PERSON: TBD TITLE: TBD	STABILIZATION REQUIREMENTS. 2. TIMELINE FOR STABILIZATION OF EXPOSED SOILS: WHERE REQUIRED, STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION
PHONE NUMBER: TBD EMAIL ADDRESS: TBD	ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS. THE FOLLOWING ACTIVITIES CAN BE TAKEN TO INITIATE STABILIZATION:
PARTY RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM: XXX MAILING ADDRESS: XXX CONTACT PERSON: XXX PHONE NUMBER: XXX EMAIL ADDRESS: XXX	 a. PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION b. APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA c. SEEDING OR PLANTING THE EXPOSED AREA d. FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED 3. METHODS TO BE USED FOR STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS (NOTE THAT MULCH, HYDRAULIC SOIL TACKIFIERS, HYDROMULCHES, ETC. ARE NOT ACCEPTABLE SOIL STABILIZATION METHODS FOR ANY
2.0 RECEIVING WATERS:	 PART OF A DRAINAGE DITCH OR SWALE WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT). (CSW PERMIT ITEMS 8.6 THROUGH 8.8) a. IN THE EVENT SOILS WITHIN EXISTING STORMWATER DITCHES OR SWALES ARE DISTURBED, THEY WILL BE STABILIZED USING ONE OR MORE OF THE FOLLOWING METHODS: CHANNEL EROSION CONTROL BLANKET, RIPRAP, TURF REINFORCEMENT MAT, ETC. b. MULCH, HVDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION PREVENTION PRACTICES WILL NOT BE USED TO STABILIZE ANY PART OF AN EXISTING STORMWATER DITCH OR SWALE. c. TIMELINE FOR STABILIZATION OF STORMWATER DITCHES AND SWALES: THE LAST 200 LINEAL FEET OF LENGTH OF
	THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE. OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WILL BE
XXX XXX - NO NO NO	STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE. STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES WILL BE COMPLETED WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION
 (1) TYPE EXAMPLES: DITCH, POND, WETLAND, CALCAREOUS FEN, LAKE, STREAM, RIVER (2) WATER BODY IDENTIFICATION (ID) MIGHT NOT BE AVAILABLE FOR ALL WATER BODIES. USE THE SPECIAL AND IMPAIRED WATERS SEARCH TOOL AT: HTTPS://WWW.PCA.STATE.MN.US/WATER/STORMWATER-SPECIAL-AND.IMPAIRED-WATERS-SEARCH (3) REFER TO CSW PERMIT SECTION 23 IMPAIRED WATER FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS (NUTRIENT EUTROPHICATION BIOLOGICAL INDICATORS), TURBIDITY, TOTAL SUSPENDED SOLIDS (TSS), DISSOLVED OXYGEN, OR AQUATIC BIOTA (FISH BIOASSESSMENT, AQUATIC PLANT BIOASSESSMENT, AND AQUATIC MACROINVERTEBRATE BIOASSESSMENT) 2.1 SPECIAL AND IMPAIRED WATERS: THE MPCA'S SPECIAL AND IMPAIRED WATERS SEARCH TOOL WAS USED TO LOCATE SPECIAL AND 	 IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED. METHODS TO BE USED FOR ENERGY DISSIPATION AT PIPE OUTLETS INCLUDE SPLASH PADS. (CSW PERMIT ITEM 8.9) BEFORE LAND DISTURBING ACTIVITIES BEGIN, THE LIMITS OF THE AREAS TO BE DISTURBED DURING CONSTRUCTION WILL BE DELINEATED (E.G., WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.). ADDITIONAL EROSION PREVENTION MEASURES: THE FOLLOWING ADDITIONAL EROSION PREVENTION METHODS WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION; (CSW PERMIT ITEMS 8.2, 8.3, AND 8.10) CONSTRUCTION PHASING WILL BE UTILIZED TO MINIMIZE THE AREA OF SOIL EXPOSED AT ANY ONE TIME. SOIL DISTURBANCE WILL BE MINIMIZED WHEREVER POSSIBLE TO AID IN EROSION PREVENTION. EXISTING VEGETATION WILL BE PRESERVED WHERE POSSIBLE TO LIMIT EXPOSED SOIL AND THUS WILL SERVE AS
IMPAIRED WATERS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF THE PROJECT SITE. NO WATERBODIES WITHIN ONE MILE HAVE AN EPA-APPROVED IMPAIRMENT. BATTLE CREEK LAKE, WHICH IS LOCATED FURTHER DOWNSTREAM THAN ONE MILE (AERIAL RADIUS), HAS EPA-APPROVED IMPAIRMENTS FOR CHLORIDES AND MERCURY IN FISH TISSUE. THESE IMPAIRMENTS ARE CONSIDERED NON-CONSTRUCTION RELATED AND DO NOT REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPS) OR PLAN REVIEW FOR COMPLIANCE WITH THE GENERAL PERMIT. (CSW PERMIT ITEM 2.7 AND SECTION 23)	NATURAL VEGETATIVE BUFFERS. d. EXPOSED SOIL ON STEEP SLOPES (<3H:1V) WILL BE STABILIZED USING EROSION CONTROL BLANKETS AND SEEDING. e. HORIZONTAL SLOPE GRADING WILL BE UTILIZED TO MINIMIZE EROSION POTENTIAL. f. TERRACING WILL BE USED TO MINIMIZE EROSION POTENTIAL.
ADDITIONAL BMPS OR OTHER SPECIFIC CONSTRUCTION RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL) ARE NOT APPLICABLE TO THIS PROJECT. (CSW PERMIT ITEM 5.19)	
2.2 PUBLIC WATERS WITH WORK IN WATER RESTRICTIONS: THIS PROJECT DOES NOT INCLUDE WORK IN PUBLIC WATERS. (CSW PERMIT ITEM 5.11)	
2.3 WETLAND IMPACTS: XXX	
2.4 ENVIRONMENTAL REVIEW AND OTHER REQUIRED REVIEWS: STORMWATER MITIGATION MEASURES ARE NOT REQUIRED AS A RESULT OF AN ENVIRONMENTAL REVIEW (E.G., EAW OR EIS), ENDANGERED OR THREATENED SPECIES REVIEW, ARCHEOLOGICAL SITE REVIEW, OR OTHER LOCAL, STATE, OR FEDERAL REVIEW CONDUCTED FOR THE PROJECT. (CSW PERMIT ITEMS 2.8, 2.9, AND 5.16)	WEPP
2.5 KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS: PROPOSED CONSTRUCTION ACTIVITIES DO NOT FALL WITHIN KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)	PRELIMINARY SWPPP
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- POINTS

(SEE PAGE 2 OF 2)

4.2 SEDIMENT CONTROL PRACTICES: 1. METHODS TO BE USED FOR DOWNGRADIENT PERIMETER CONTROL. (CSW PERMIT ITEMS 9.2 THROUGH 9.6) SEDIMENT CONTROL PRACTICES SHALL BE ESTABLISHED ON ALL DOWNGRADIENT PERIMETERS AND LOCATED UPGRADIENT OF ANY BUFFER ZONES. PERIMETER SEDIMENT CONTROLS THAT MAY BE USED IN AREAS OF SHEET FLOW INCLUDE: SILT FENCING, SEDIMENT CONTROL LOGS / BIOROLLS (FILLED WITH COMPOST, WOOD CHIPS, ROCK, ETC.), VEGETATIVE SLASH BARRIERS, OTHER NATIVE MATERIAL BARRIERS, VEGETATIVE BUFFERS (RETAIN EXISTING VEGETATION WHERE POSSIBLE), EARTHEN BERMS, ROCK CHECKS, ETC.

b. PERIMETER SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND REMAIN IN PLACE UNTIL PERMANENT COVER HAS BEEN ESTABLISHED.

c. IF SEDIMENT CONTROL PRACTICES HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES (SUCH AS CLEARING, GRUBBING, OR PASSAGE OF VEHICLES), THE CONTROLS MUST BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE RE-INSTALLED BEFORE THE NEXT PRECIPITATION EVENT, EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE

d. IF THE DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT), INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES

2. METHODS TO BE USED TO CONTAIN SOIL STOCKPILES. (CSW PERMIT ITEMS 9.9 AND 9.10)

ANY TEMPORARY SOIL STOCKPILES SHALL BE SURROUNDED BY SILT FENCING OR BIOROLLS (OR OTHER EFFECTIVE SEDIMENT CONTROLS) AND SHALL NOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS. METHODS TO BE USED FOR STORM DRAIN INLET PROTECTION. (CSW PERMIT ITEMS 9.7 AND 9.8)
 INLET PROTECTION BMPS WILL BE INSTALLED AROUND ALL STORM DRAIN INLETS DOWNGRADIENT OF

CONSTRUCTION ACTIVITIES. STORM DRAIN INLETS WILL BE PROTECTED UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION BMPS THAT MAY BE USED INCLUDE: SEDIMENT CONTROL LOG, FILTER SACK, ROCK WITH FILTER FABRIC, FILTER FENCE BOX, OR EQUIVALENT MEASURES. SILT FENCE OR FABRIC PLACED UNDER THE GRATE WILL NOT BE CONSIDERED AS AN APPROVED FORM OF INLET PROTECTION

4. METHODS TO MINIMIZE VEHICLE TRACKING AT CONSTRUCTION EXITS AND STREET SWEEPING ACTIVITIES. (CSW PERMIT ITEMS 9.11 AND 9.12)

a. A VEHICLE TRACKING BMP (SUCH AS A ROCK PADS, MUD MATS, SLASH MULCH, CONCRETE OR STEEL WASH RACKS, OR AN EQUIVALENT SYSTEM) SHALL BE INSTALLED TO MINIMIZE THE TRACKING OUT OF SEDIMENT FROM THE CONSTRUCTION AREA

IF SUCH VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE PAVED ROAD, STREET SWEEPING WILL ALSO BE EMPLOYED. SEDIMENT WILL BE REMOVED BY SWEEPING WITHIN 24 HOURS.

PROTECTION OF INFILTRATION AREAS: ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERMS, PIPE PLUGS) WILL BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION AREAS WHEN EXCAVATED PRIOR TO ESTABLISHING PERMANENT COVER WITHIN THE CONTRIBUTING DRAINAGE AREA. (CSW PERMIT ITEMS 16.4 AND 16.5) MINIMIZATION OF SOIL COMPACTION AND PRESERVATION OF TOPSOIL: SOIL COMPACTION WILL BE MINIMIZED AND TOPSOIL WILL BE PERSERVED WHERE POSSIBLE (CSW PERMIT ITEMS 5.24, 9.14, AND 9.15) 7. METHODS TO BE USED TO PROMOTE INFILTRATION AND SEDIMENT REMOVAL ON THE SITE PRIOR TO OFFSITE

DISCHARGE, UNLESS INFEASIBLE. (CSW PERMIT ITEM 9.16) a. DISCHARGES FROM BMPS WILL BE DIRECTED TO VEGETATED AREAS OF THE SITE (INCLUDING ANY NATURAL BUFFERS) IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. IF EROSION IS NOTED TO OCCUR AS THE RESULT OF SUCH A DISCHARGE, VELOCITY DISSIPATION BMPS WILL BE CONSIDERED AND INSTALLED AS NECESSARY TO PREVENT EROSION.

8. BUFFER ZONE OR REDUNDANT SEDIMENT CONTROLS TO PROTECT SURFACE WATERS: (CSW PERMIT ITEM 9.17). IN WETLANDS AND NON-SPECIAL WATERS, A 50-FOOT NATURAL BUFFER SHALL BE PRESERVED. WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS SHALL BE PROVIDED. REDUNDANT PERIMETER CONTROLS WILL BE INSTALLED AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE.

 A 100-FOCT NATURAL BUFFER SHALL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO SPECIAL WATERS OR, IF A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS SHALL BE PROVIDED, WHEN A SPECIAL WATER IS LOCATED WITHIN 100 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER.

SEDIMENT TREATMENT CHEMICALS: NOT APPLICABLE; USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) IS NOT ANTICIPATED AS PART OF THE PROJECT. (CSW PERMIT ITEMS 5.222 AND 9.18) 10. TEMPORARY SEDIMENT BASIN(S): THE PROJECT WILL NOT INCLUDE 10 OR MORE ACRES OF DISTURBED SOIL DRAINING TO A COMMON LOCATION OF 5 OR MORE ACRES DRAINING TO A COMMON LOCATION WITHIN 1 MILE OF A SPECIAL OF IMPAIRED WATER. THEREFORE, TEMPORARY SEDIMENT BASINS ARE NOT REQUIRED. (CSW PERMIT ITEMS 5.6, 9.13, AND 23 10 AND SECTION 14)

4.3 DEWATERING AND BASIN DRAINING: (CSW PERMIT SECTION 10 AND ITEM 10.5) a. THE FOLLOWING WILL BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER DURING DEWATERING OR BASIN DRAINING: DEWATERING FILTER BAGS OR FOUTVALENT MEASURES

THE FOLLOWING WILL BE USED TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS DURING DEWATERING OR BASIN DRAINING: TEMPORARY DRAINAGE CHANNELS AND SEDIMENT BASINS OR EQUIVALENT MEASURES c. FILTERS FOR BACKWASH WATER WILL BE MANAGED ON THE SITE AND CONSISTENTLY INSPECTED FOR DAMAGE AND PROPERLY DISPOSED OF OFFSITE WHEN PUMPING IS COMPLETED OR IF SIGNS OF DAMAGE ARE FOUND.

4.4 BMP DESIGN FACTORS: THE FOLLOWING BMP DESIGN FACTORS HAVE BEEN CONSIDERED IN DESIGNING THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPS:

EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION. NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM

IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES. 3. STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE

4. RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT.

4.5 BMP QUANTITIES: ANTICIPATED EROSION PREVENTION AND SEDIMENT CONTROL BMP QUANTITIES NEEDED FOR THE LIFE OF THE PROJECT: SEE DRAWINGS AND BID FORM.

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OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047. CLIENT PROJECT No.	.35
STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	DWG. No. SW1.0	REV. No. A

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5.0 PERMANENT STORMWATER MANAGEMENT SYSTEM

A PERMANENT STORMWATER MANAGEMENT SYSTEM IS REQUIRED IF THE PROJECT RESULTS IN ONE ACRE OR MORE OF NEW A PERMANENT DISTANT AND A DISTAN IN TOTAL OR IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT. (CSW PERMIT ITEM 15.3)

5.1 A PERMANENT STORMWATER TREATMENT SYSTEM IS NOT REQUIRED, (CSW PERMIT ITEMS 5.15, 15.4-15.9, AND 23.14)

5.2 THIS IS NOT A LINEAR PROJECT WITH LACK OF RIGHT OR WAY. (CSW PERMIT ITEM 15.9)

5.3 THIS PROJECT DOES NOT DISCHARGE TO A TROUT STREAM (OR A TRIBUTARY TO A TROUT STREAM). (CSW PERMIT ITEM 23.12)

6.0 INSPECTION AND MAINTENANCE ACTIVITIES:

6.1 PERSONS WITH REQUIRED TRAINING: TRAINED INDIVIDUALS INCLUDE THOSE PARTIES RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPS AT THE SITE. TRAINED INDIVIDUALS ARE ALSO RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND COMPLIANCE WITH THE GENERAL PERMIT UNTIL THE CONSTRUCTION ACTIVITIES ARE COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED. (CSW PERMIT ITEMS 5.20, 5.21, AND 11.9 AND SECTION 21)

THESE INDIVIDUALS WILL BE TRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT. INCLUDING THE REQUIREMENT THAT THE CONTENT AND EXTENT OF TRAINING WILL BE COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES

BELOW IS A LIST OF PEOPLE RESPONSIBLE FOR THIS PROJECT WHO ARE KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS

\rangle	TRAINED INDIVIDUAL	RESPONSIBILITY	TRAINING ENTITY*	TRAINING DATE
\rangle				
Ś	TBD	CONSTRUCTION SITE MANAGEMENT	TBD	TBD
\rangle				1
\rangle	TBD	PERFORMANCE OF SWPPP INSPECTIONS	TBD	TBD WWARY
$\left\langle \right\rangle$	TBD	PERFORMANCE OR SUPERVISION OF INSTALLATION, MAINTENANCE, AND REPAIR OF BMPS	TBD	TBD PRELIMINAN
\geq				SVY'

*TRAINING DOCUMENTATION AVAILABLE UPON REQUEST.

6.2 FREQUENCY OF INSPECTIONS: A TRAINED PERSON WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE. (CSW PERMIT ITEMS 11.2, 11.10, AND 23.13)

AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION

WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS

INSPECTION FREQUENCY MAY BE ADJUSTED UNDER THE FOLLOWING CIRCUMSTANCES:

- WHERE PARTS OF THE CONSTRUCTION AREAS HAVE PERMANENT COVER. BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE AREAS WITH PERMANENT COVER MAY BE REDUCED TO ONCE PER MONTH. WHERE CONSTRUCTION AREAS HAVE PERMANENT COVER AND NO CONSTRUCTION ACTIVITY IS OCCURRING ON THE SITE INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL
- CONSTRUCTION ACTIVITY RESUMES WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE INSPECTIONS MAY BE SUSPENDED. THE REQUIRED INSPECTIONS AND MAINTENANCE SCHEDULE MUST BEGIN WITHIN 24 HOURS AFTER RUNOFF OCCURS AT THE SITE OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.
- 6.3 INSPECTION REQUIREMENTS: EACH CONSTRUCTION STORMWATER SITE INSPECTION SHALL INCLUDE INSPECTION OF THE
- OLLOWING AREAS. (CSW PERMIT ITEMS 11.3 THROUGH 11.8)
 ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES
- SURFACE WATERS FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION
- CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING
- STREETS AND OTHER AREAS ADJACENT TO THE PROJECT FOR EVIDENCE OF OFF SITE ACCUMULATIONS OF SEDIMENT

6.4 MAINTENANCE REQUIREMENTS: MAINTENANCE OF THE FOLLOWING AREAS AND BMPS SHALL BE PERFORMED AS FOLLOWS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- NONFUNCTIONAL BMPS WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- PERIMETER CONTROL DEVICES WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE
- TEMPORARY AND PERMANENT SEDIMENTATION BASINS WILL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS WILL BE REMOVED, AND THE AREAS WHERE SEDIMENT REMOVAL
- RESULTS IN EXPOSED SOIL WILL BE RE-STABILIZED. THE REMOVAL AND STABILIZATION WILL BE COMPLETED WITHIN 7 CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PRECLUDED DUE TO ACCESS CONSTRAINTS, REASONABLE EFFORTS TO OBTAIN ACCESS WILL BE USED. REMOVAL AND STABILIZATION WILL TAKE PLACE WITHIN 7 CALENDAR DAYS OF OBTAINING ACCESS.
- TRACKED SEDIMENT ON PAVED SURFACES WILL BE REMOVED WITHIN 1 CALENDAR DAY OF DISCOVERY. AREAS UNDERGOING STABILIZATION WILL BE RESTABILIZED AS NECESSARY TO ACHIEVE REQUIRED COVER.

6.5. RECORDKEEPING REQUIREMENTS: (CSW PERMIT ITEMS 11.11 AND 24.5 AND SECTIONS 6 AND 20) 1. ALL INSPECTIONS AND MAINTENANCE ACTIVITIES MUST BE RECORDED IN WRITING WITHIN 24 HOURS OF BEING CONDUCTED

- AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE ACTIONS (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND DATE OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS AND THE AMOUNT OF RAINFALL FOR FACH EVENT.
- IF ANY DISCHARGE IS OBSERVED DURING THE INSPECTION, DOCUMENT THE LOCATION AND APPEARANCE OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS), AND A PHOTOGRAPH OF THE DISCHARGE.
- 2. THE SWPPP WILL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPS TO CORRECT PROBLEMS OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER, OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER
 - a. THE SWPPP WILL BE AMENDED WHEN INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER. OPERATOR. OR CONTRACTORS OR BY USEPA/MPCA OFFICIALS INDICATE THAT THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR MINIMIZING THE DISCHARGE OF POLI UTANTS TO SURFACE WATERS OR GROUNDWATER: THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES; OR THE SWPPP IS NOT CONSISTENT WITH A USEPA APPROVED TMDL
 - ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION WILL BE DOCUMENTED AS REQUIRED WITHIN 7 CALENDAR DAYS
 - AMENDMENTS WILL BE COMPLETED BY AN APPROPRIATELY TRAINED INDIVIDUAL. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP WILL INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.
- RECORDS RETENTION: THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTION AND MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER A FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS
- RECORD AVAILABILITY: THE PERMITTEES MUST MAKE THE SWPPP. INCLUDING INSPECTION REPORTS. MAINTENANCE RECORDS, AND TRAINING RECORDS, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT COVERAGE AND FOR THREE YEARS FOLLOWING THE NOT.

7.0 POLLUTION PREVENTION MEASURES:

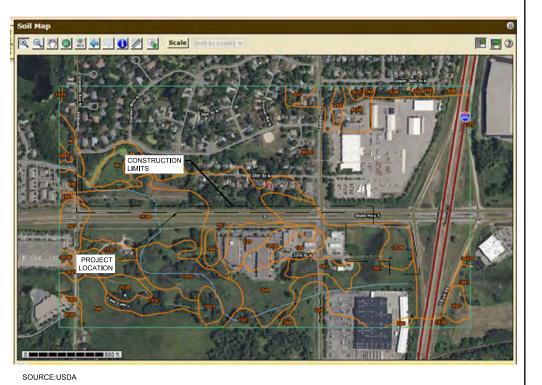
- 1. ANY CONSTRUCTION PRODUCTS AND LANDSCAPE MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS SHALL BE STORED UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.2)
- PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING, TEMPORARY ROOFS, WITHIN A BUILDING, OR IN WEATHER-PROOF CONTAINERS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.3)
- HAZARDOUS MATERIALS AND TOXIC WASTE (E.G., OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) SHALL BE STORED AND DISPOSED OF IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7045, INCLUDING SECONDARY CONTAINMENT (AS APPLICABLE), HAZARDOUS MATERIALS SHALL BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGES AND PREVENT PRECIPITATION FROM FALLING ONTO THE CONTAINERS OR STORED HAZARDOUS MATERIALS. (CSW PERMIT ITEMS 2.3 AND 12.4)
- SOLID WASTE SHALL BE COLLECTED, STORED, AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7035. THIS INCLUDES STORAGE WITHIN COVERED TRASH CONTAINERS AND DAILY REMOVAL OF LITTER AND DEBRIS. STORAGE OF SOLID WASTE WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12 5)
- PORTABLE TOILETS WILL BE LOCATED AWAY FROM SURFACE WATERS AND POSITIONED AND SECURED TO THE GROUND SO THEY WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE WILL BE DISPOSED OF IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 7041. PORTABLE TOILETS WILL BE PERIODICALLY EMPTIED AND THE WASTE HAULED OFF-SITE BY A LICENSED HAULER (CSW PERMIT ITEM 12.6)

VEHICLE FUELING WILL ONLY OCCUR IN DESIGNATED AREAS. SPILL KITS SIZED APPROPRIATELY FOR THE AMOUNT OF REFUELING TAKING PLACE WILL BE LOCATED. SPILL KITS WILL BE CLEARLY LABELED AND CONTAIN MATERIALS TO ASSIST IN SPILL CLEANUP INCLUDING ABSORBENT PADS, BOOMS FOR CONTAINING SPILLS, AND HEAVY-DUTY PROTECTIVE GLOVES. SPILLS WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061. (CSW PERMIT ITEMS 2.3 AND 12.7)

- a. ANY FUEL TANKS BROUGHT ON-SITE WILL HAVE PROPERLY SIZED CONTAINMENT AND WILL NOT BE TOPPED OFF TO AVOID SPILLS FROM OVERFILLING. FUEL TANKS WILL MEET INDUSTRY STANDARDS (DESIGNED TO HOLD FUEL TYPE, PROPERLY MAINTAINED, NOT ILLEGALLY MODIFIED, NOT MISSING LEAK INDICATOR FLOATS FOR DOUBLE WALLED TANKS, SIGHT GAUGES NOT USED, ETC.) OR BE REMOVED FROM THE WORK AREA.
- GUIDELINES FOR SPILL PREVENTION AND RESPONSE INCLUDE: TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS. INCLUDING FUEL FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED, INCLUDING THE USE OF DRI PANS OR ABSORBENTS UNLESS INFEASIBLE.
- PERFORM REGULAR PREVENTATIVE MAINTENANCE ON TANKS AND FUEL LINES INSPECT PUMPS, CYLINDERS, HOSES, VALVES, AND OTHER MECHANICAL EQUIPMENT ON-SITE FOR DAMAGE OR DETERIORATION;
- DO NOT WASH OR RINSE FUELING AREAS WITH WATER:
- MAINTAIN ADEQUATE SUPPLIES TO CLEAN UP DISCHARGED MATERIALS AND PROVIDE AN APPROPRIATE
- DISPOSAL METHOD FOR RECOVERED SPILLED MATERIALS: REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061, USING
- DRY CLEAN UP MEASURES WHERE POSSIBLE: AND MAINTAIN COPIES OF SAFETY DATA SHEETS (SDSS) FOR HAZARDOUS MATERIALS ON-SITE IN LOCATIONS
- READILY AVAILABLE TO EMERGENCY RESPONDERS
- IF VEHICLE AND EQUIPMENT WASHING IS NECESSARY, A VEHICLE WASH STATION WILL BE LOCATED IN A DESIGNATED AREA. RUNOFF FROM THE WASHING AREA WILL BE CONTAINED IN A SEDIMENT BASIN AND WASTE FROM THE WASHING ACTIVITY WILL BE PROPERLY DISPOSED OF. ANY SOAPS, DETERGENTS, OR SOLVENTS WILL BE PROPERLY USED AND STORED. ANY DETERGENTS AND OTHER CLEANERS NOT PERMITTED FOR DISCHARGE WILL NOT BE USED. (CSW PERMIT ITEMS 2.3 AND 12.8)
- THE PROJECT WILL RESULT IN CONCRETE OR OTHER WASHOUT ACTIVITIES. BELOW IS A DESCRIPTION OF THE STORAGE AND DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES SO THAT WASTES DO NOT CONTACT THE GROUND. (CSW PERMIT ITEMS 2.3 AND 12.9)
 - a CONTRACTOR SHALL NOT BE ALLOWED TO SET UP A CONCRETE WASHOUT STATION ONSITE EXAMPLES OF APPROPRIATE CONCRETE WASHOUT PRACTICES INCLUDE: PUTTING ALL WASHOUT WATER BACK INTO CONCRETE TRUCKS FOR CONCRETE VENDOR TO MANAGE AT THEIR

 - THE CONCRETE WASHOUT WATER FOR CONCRETE TRUCK CHUTE AND TOOLS WILL ALSO NOT TOUCH THE GROUND. THIS PAIL OF WASH WATER CAN BE PUT BACK INTO THE CONCRETE TRUCK.

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- SURFACES, (CSW PERMIT ITEM 5.17)

COMPLETE

8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS:

THE AREAS DISTURBED DURING CONSTRUCTION WILL BE STABILIZED WITH PERMANENT COVER UPON COMPLETION OF WORK. PERMANENT COVER MAY BE VEGETATIVE OR NON-VEGETATIVE, AS APPROPRIATE. ESTABLISHMENT OF PERMANENT COVER MAY INCLUDE THE FOLLOWING ACTIVITIES: PLACEMENT OF EROSION CONTROL BLANKET, PLACEMENT OF TURF REINFORCING MAT, UPLAND ZONE SEED MIXES AND PLUGS, WETLAND MEADOW SEED MIXES AND PLUGS, AND BITUMINOUS

FOR A CONSTRUCTION-SITE TO ACHIEVE "PERMANENT COVER", THE FOLLOWING REQUIREMENTS MUST BE COMPLETED PRIOR TO TERMINATION OF PERMIT COVERAGE (CSW PERMIT SECTIONS 4 AND 13);

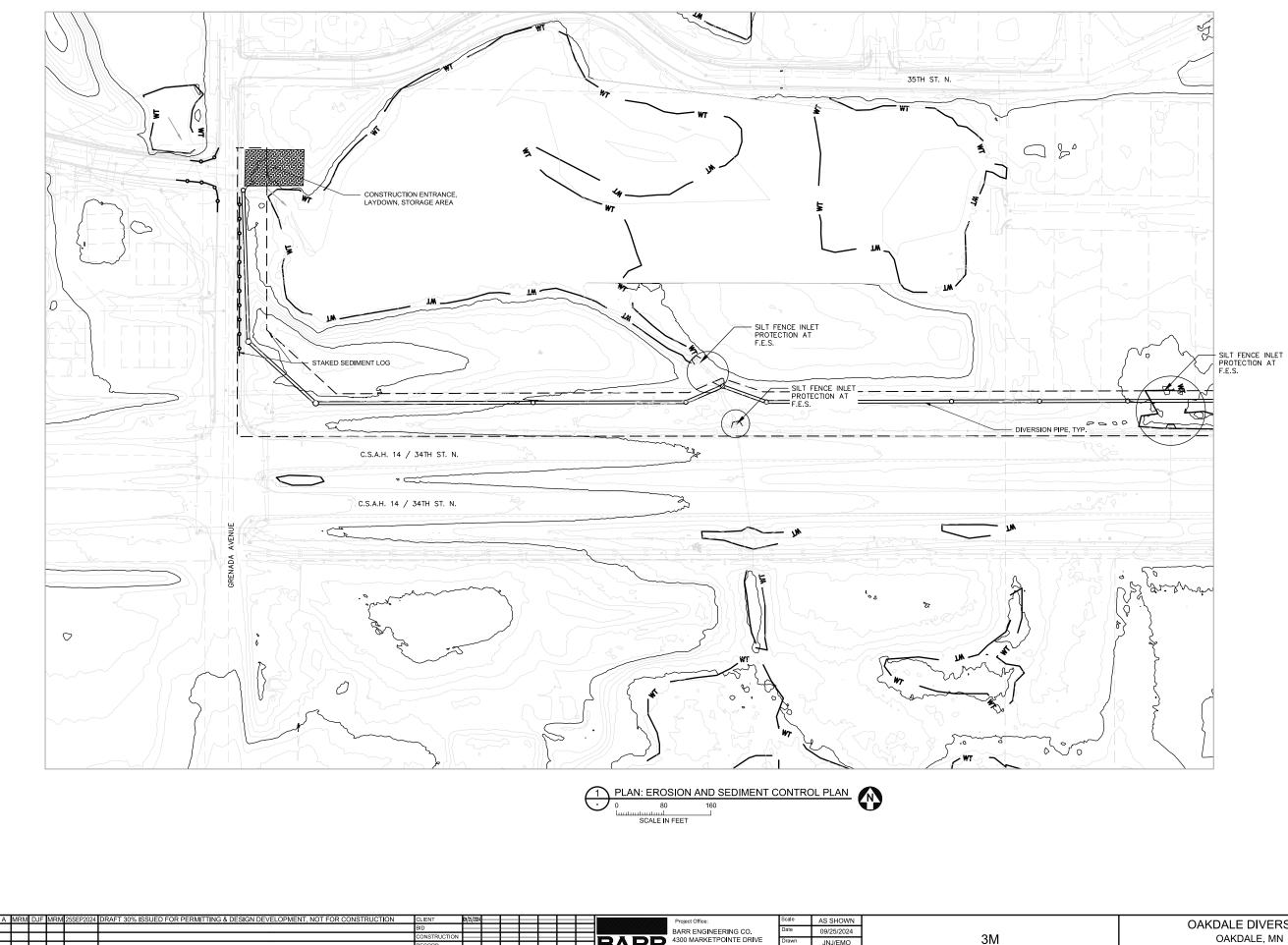
a. ALL SOIL DISTURBING CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND PERMANENT COVER HAS BEEN INSTALLED OVER ALL AREAS, VEGETATIVE COVER CONSISTS OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION (SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER). ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS, INCLUDING CULVERTS.

ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS HAVE BEEN REMOVED. BMPS DESIGNED TO DECOMPOSE ON-SITE MAY BE LEFT IN PLACE.

3. SUBMIT A NOTICE OF TERMINATION (NOT) FORM TO THE MPCA WITHIN 30 DAYS AFTER THE TERMINATION CONDITIONS ARE

PRELIMINARY SWPPF

DRAFT NOT FOR CONSTRUCTION						
	OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047.35 CLIENT PROJECT No.				
	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	DWG. No. SW1.1	REV. No. A			



BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 JNJ/EMO MRM/DFFJ/ADC OAKDALE, MN A B C 0 1 2 3 orate Headquarters Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com BARR RELEASED TO/FOR Minneapolis, Minnesota Ph: 1-800-632-2277 REVISION DESCRIPTION O BY CHK APP. DATE DATE RELEASED ---

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-	WETLAND FLOW LINE

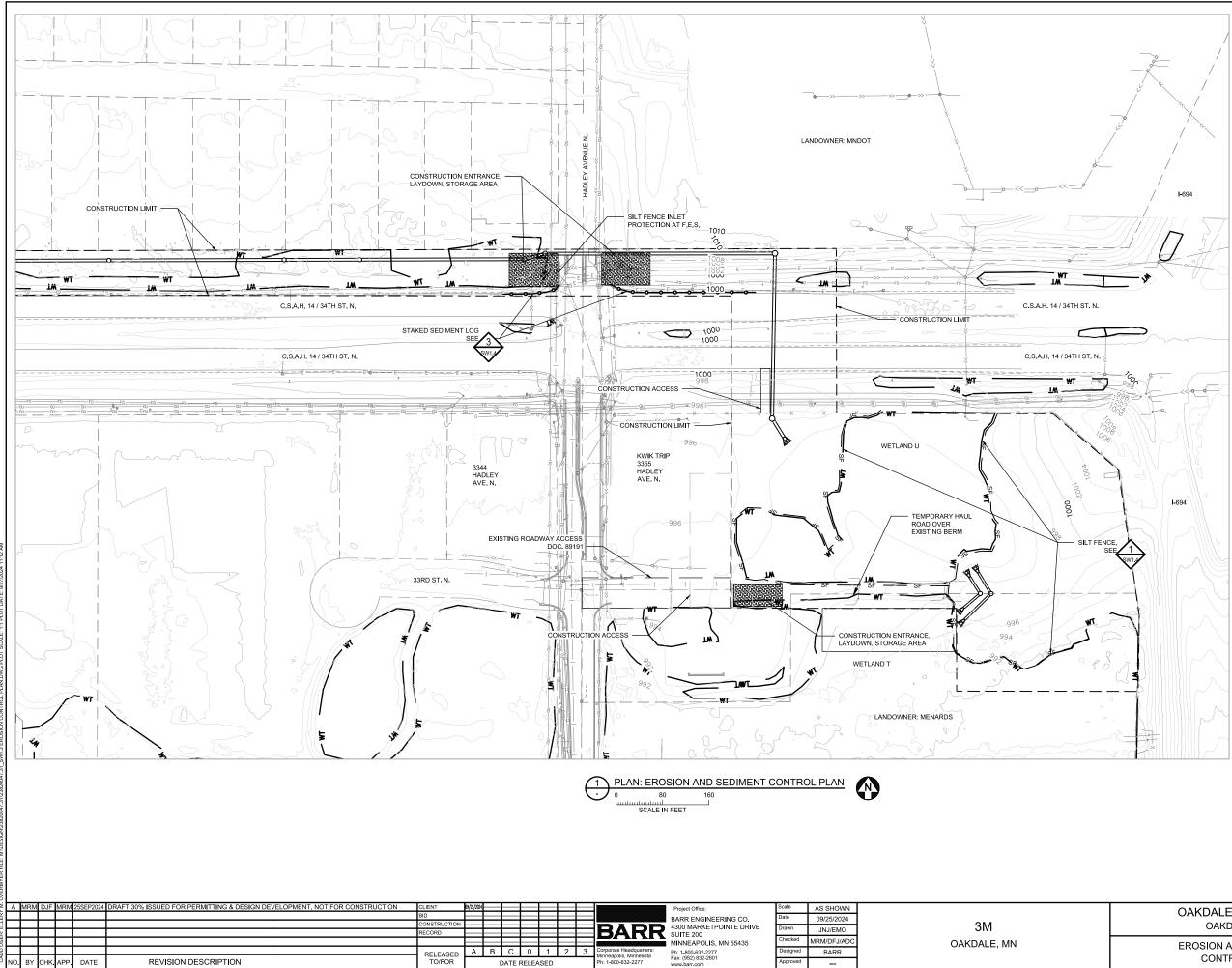
EROSION CONTROL LEGEND

- STAKED SEDIMENT LOG

ENTRANCE/STORAGE

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	BARR PROJECT No. 23/82-0047. CLIENT PROJECT No.	.35
EROSION AND SEDIMENT CONTROL PLAN	DWG. No. SW1.2	REV. No. A

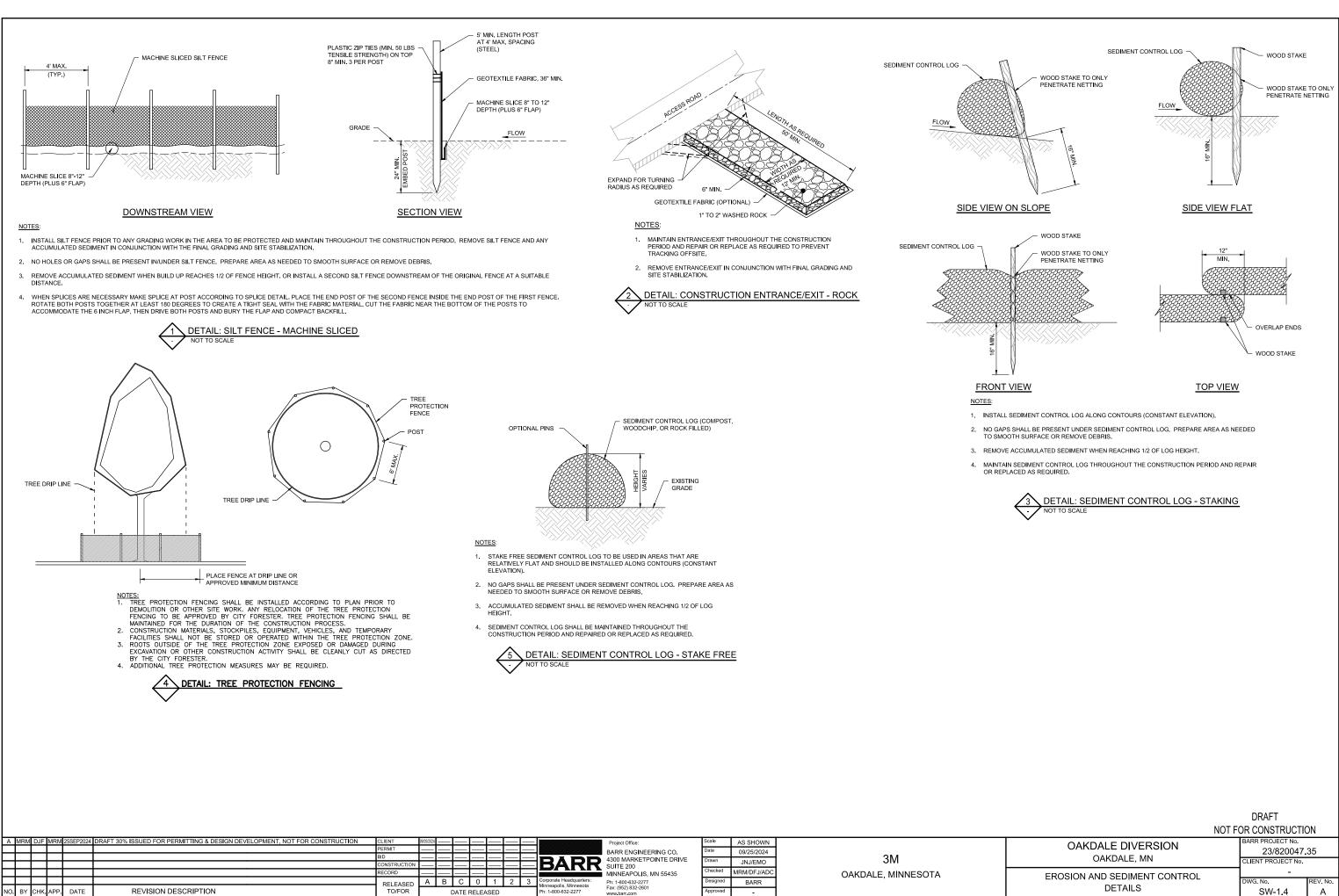


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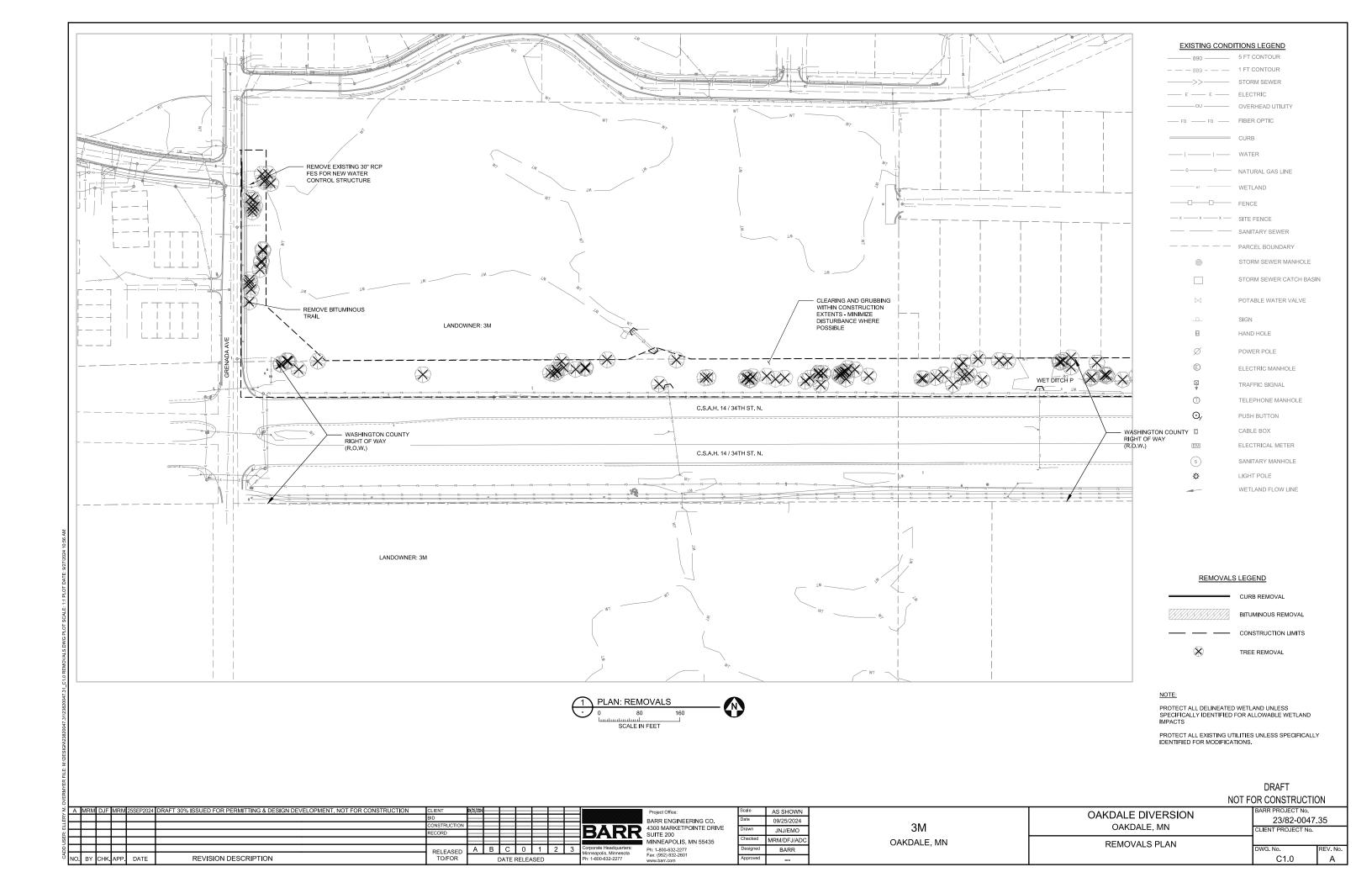
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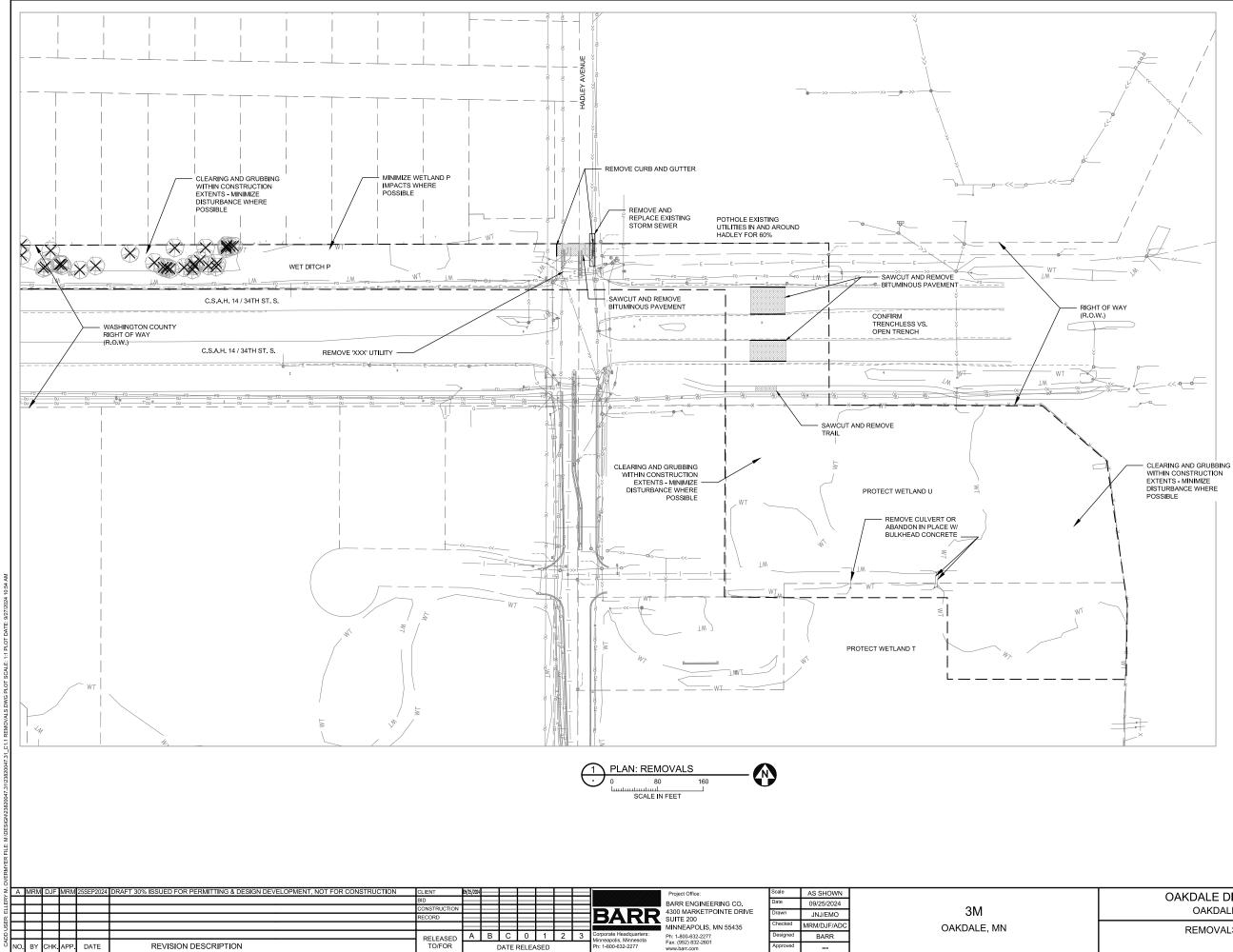
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DRAFT NOT FOR CONSTRUCTION OAKDALE DIVERSION 0AKDALE, MN CLIENT PROJECT No. EROSION AND SEDIMENT CONTROL PLAN



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	FENCE
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	SANITARY SEWER
	PARCEL BOUNDARY
	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN
\bowtie	POTABLE WATER VALVE
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Ø	POWER POLE
©	ELECTRIC MANHOLE
⊠ ▼	TRAFFIC SIGNAL
Ū	TELEPHONE MANHOLE
$\odot_{\!$	PUSH BUTTON
۵	CABLE BOX
EM	ELECTRICAL METER
S	SANITARY MANHOLE
÷¢	LIGHT POLE
	WETLAND FLOW LINE

REMOVALS LEGEND

CURB REMOVAL

BITUMINOUS REMOVAL

CONSTRUCTION LIMITS

 \otimes

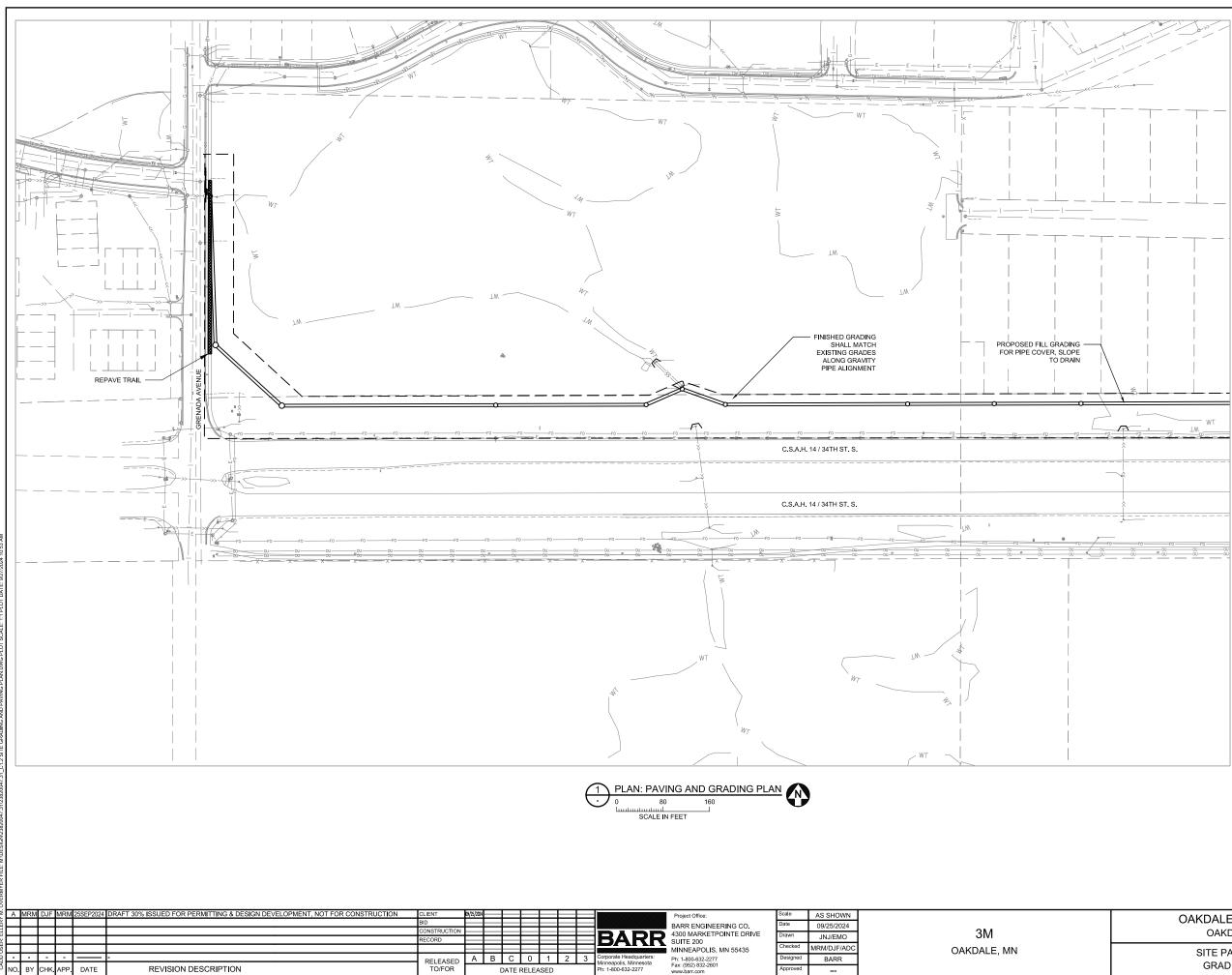
TREE REMOVAL

NOTE:

PROTECT ALL DELINEATED WETLAND UNLESS SPECIFICALLY IDENTIFIED FOR ALLOWABLE WETLAND IMPACTS.

PROTECT ALL EXISTING UTILITIES UNLESS SPECIFICALLY IDENTIFIED FOR MODIFICATIONS.

DRAFT								
NOT FOR CONSTRUCTION								
OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047 CLIENT PROJECT No.	.35						
REMOVALS PLAN	DWG. No. C1.1	REV. No. A						



EXISTING COND	ITIONS LEGEND
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889	1 FT EXISTING ELEV. CONTOUR
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889	1 FT PRO. ELEV. CONTOUR
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	SANITARY SEWER
	PARCEL BOUNDARY
	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN
\bowtie	POTABLE WATER VALVE
\otimes	DECIDUOUS TREE - DIAMETER
Star Barrison	CONIFEROUS TREE - DIAMETER
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Ð	HAND HOLE
Ø	POWER POLE
©	ELECTRIC MANHOLE
⊠ ▼	TRAFFIC SIGNAL
\bigcirc	TELEPHONE MANHOLE
•H	PUSH BUTTON
Ø	CABLE BOX
EM	ELECTRICAL METER
s	SANITARY MANHOLE
¢	LIGHT POLE
	WETLAND FLOW LINE

PAVING LEGEND

CURB PAVING



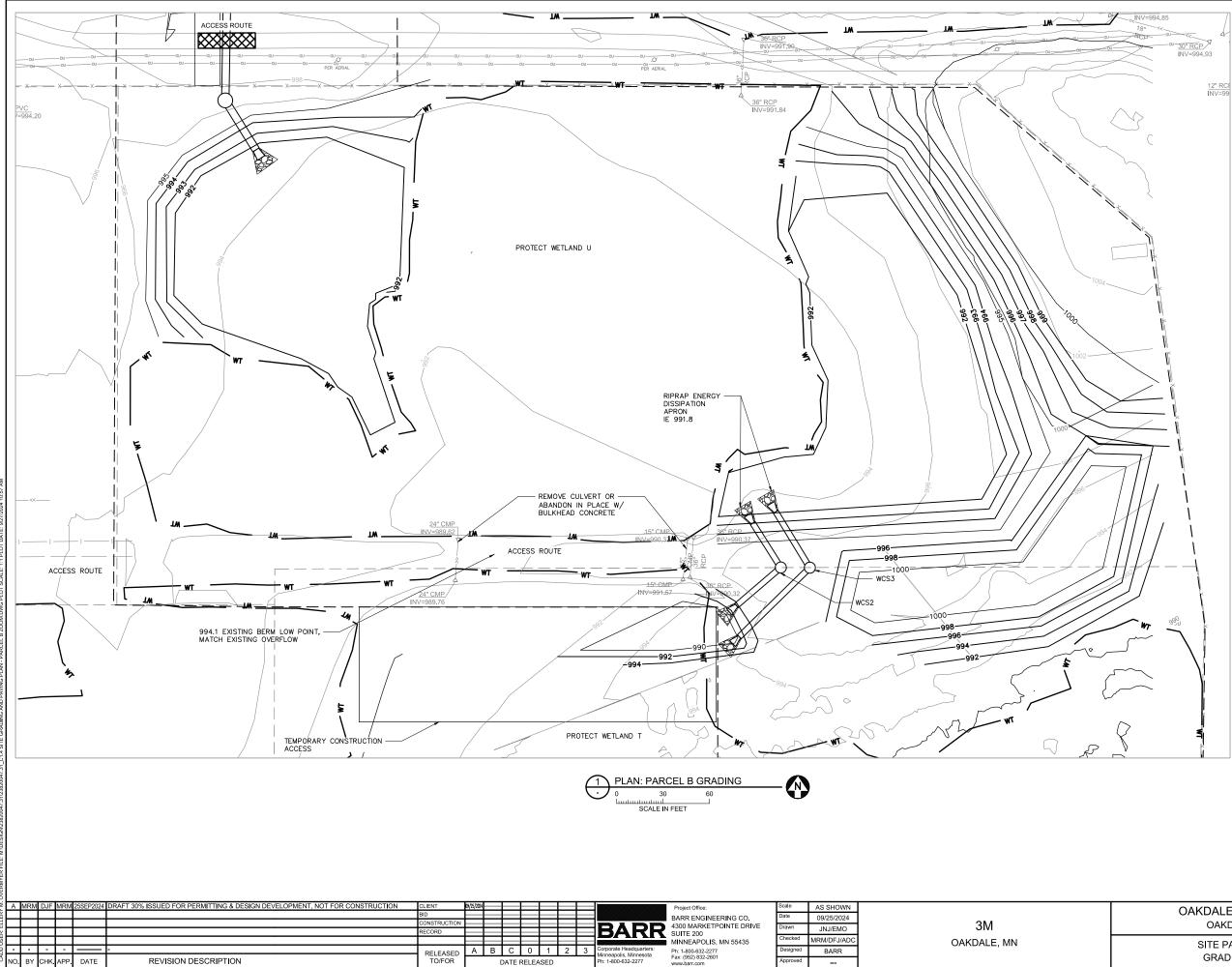


TRAIL PAVING

<u>NOTE:</u> THIS PAVING PLAN IS PRELIMINARY. SEE TRANSPORTATION DRAWING SET FOR ROADWAY, PAVING, DETOUR AND MN STATE-AID DESIGN INFORMATION (BY OTHERS)

ALL SUBBASE, PAVEMENT REMOVAL, AND REPLACEMENT SHALL BE IN ACCORDANCE WITH CITY OF OAKDALE, WASHINGTON COUNT AND MNDOT REQUIREMENTS.

NOT FO	DRAFT DR CONSTRUCTIO	ON
OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047. CLIENT PROJECT No.	.35
SITE PAVING AND GRADING PLAN	DWG. No. C1.2	REV. No. A



EXISTING CONDITIONS LEGEND								
890	5 FT EXISTING ELEV. CONTOUR							
— — 889 — —	1 FT EXISTING ELEV. CONTOUR							
890	5 FT PROPOSED ELEV. CONTOUR							
889	1 FT PROPOSED ELEV. CONTOUR							
>>	STORM SEWER							
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OU	OVERHEAD UTILITY							
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	WETLAND							
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	SANITARY SEWER							
	PARCEL BOUNDARY							
	STORM SEWER MANHOLE							
	STORM SEWER CATCH BASIN							
\bowtie	POTABLE WATER VALVE							
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Person and a second sec	CONIFEROUS TREE - DIAMETER							
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Ø	POWER POLE							
©	ELECTRIC MANHOLE							
×	TRAFFIC SIGNAL							
\bigcirc	TELEPHONE MANHOLE							
\bigcirc H	PUSH BUTTON							
	CABLE BOX							
EM	ELECTRICAL METER							
s	SANITARY MANHOLE							
¢	LIGHT POLE							
	WETLAND FLOW LINE							
PAVING L	EGEND							
	CURB PAVING							
AIIIIIIIIII	ROAD PAVING							



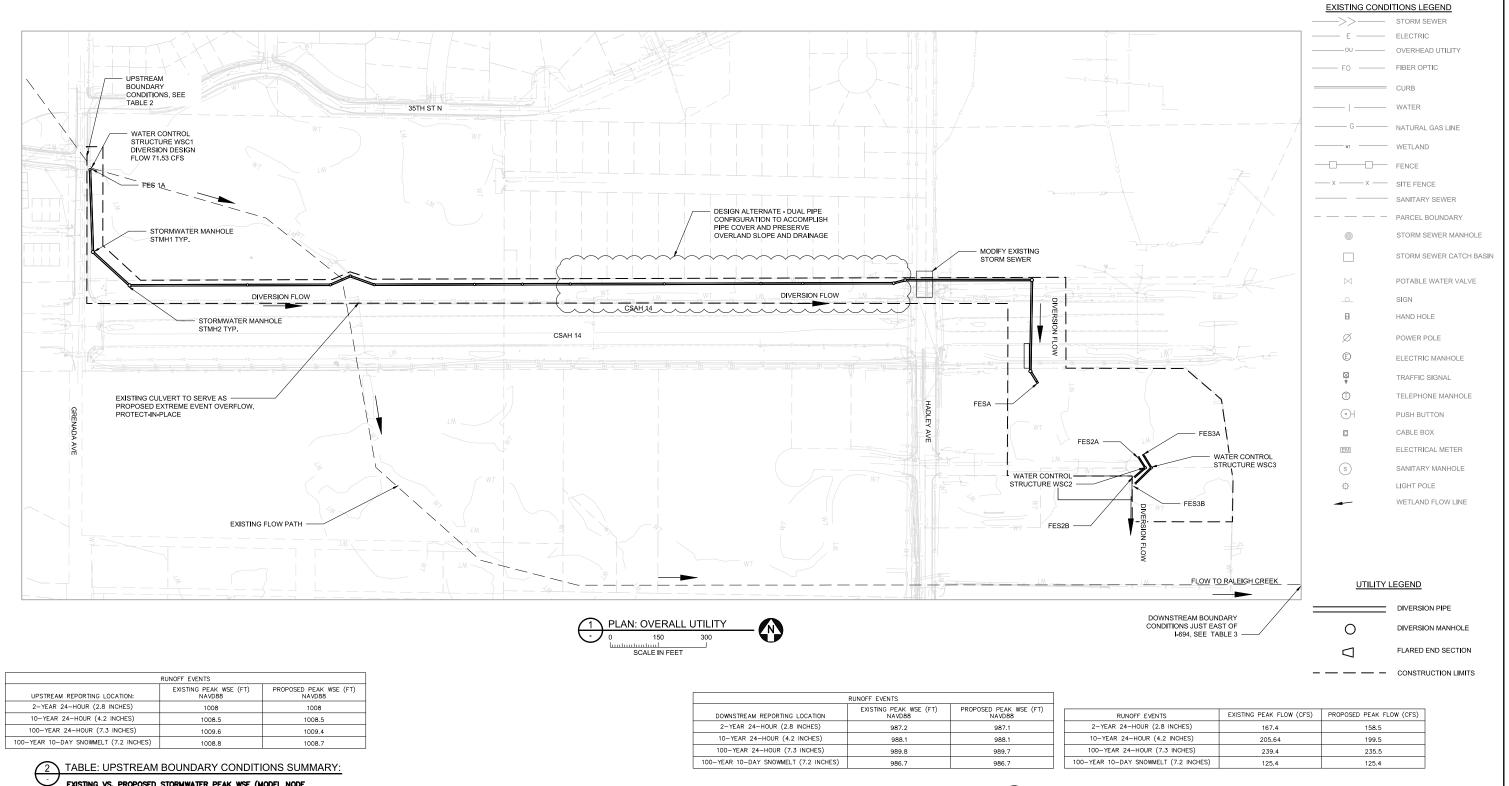


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NOTE: THIS PAVING PLAN IS PRELIMINARY, SEE TRANSPORTATION DRAWING SET FOR ROADWAY, PAVING, DETOUR AND MN STATE-AID DESIGN INFORMATION (BY OTHERS)

 NOT F	R CONSTRUCTION		
OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047. CLIENT PROJECT No.	35	
SITE PAVING AND GRADING PLAN	DWG. No. C1.4	REV. No.	



RUNOFF EVENTS										
UPSTREAM REPORTING LOCATION:	EXISTING PEAK WSE (FT) NAVD88	PROPOSED PEAK WSE (FT) NAVD88								
2-YEAR 24-HOUR (2.8 INCHES)	1008	1008								
10-YEAR 24-HOUR (4.2 INCHES)	1008.5	1008.5								
100-YEAR 24-HOUR (7.3 INCHES)	1009.6	1009.4								
100-YEAR 10-DAY SNOWMELT (7.2 INCHES)	1008.8	1008.7								

EXISTING VS. PROPOSED STORMWATER PEAK WSE (MODEL NODE RLE-940)

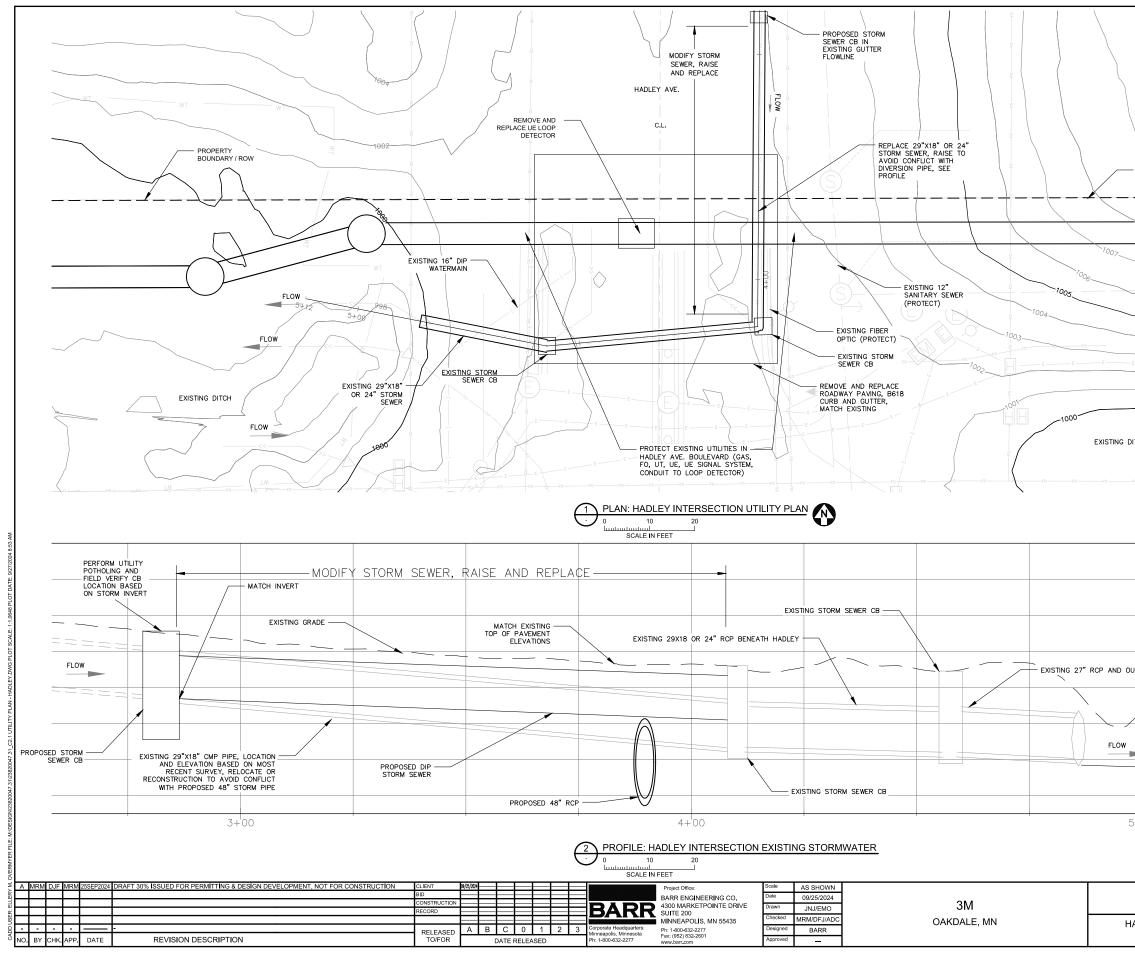
RUNOFF EVENTS							
DOWNSTREAM REPORTING LOCATION	EXISTING PEAK WSE (FT) NAVD88	PROPOSED PEAK WSE (FT) NAVD88					
2-YEAR 24-HOUR (2.8 INCHES)	987.2	987.1					
10-YEAR 24-HOUR (4.2 INCHES)	988.1	988.1					
100-YEAR 24-HOUR (7.3 INCHES)	989.8	989 7					

 $\left(\begin{array}{c}3\\\hline\end{array}\right)$

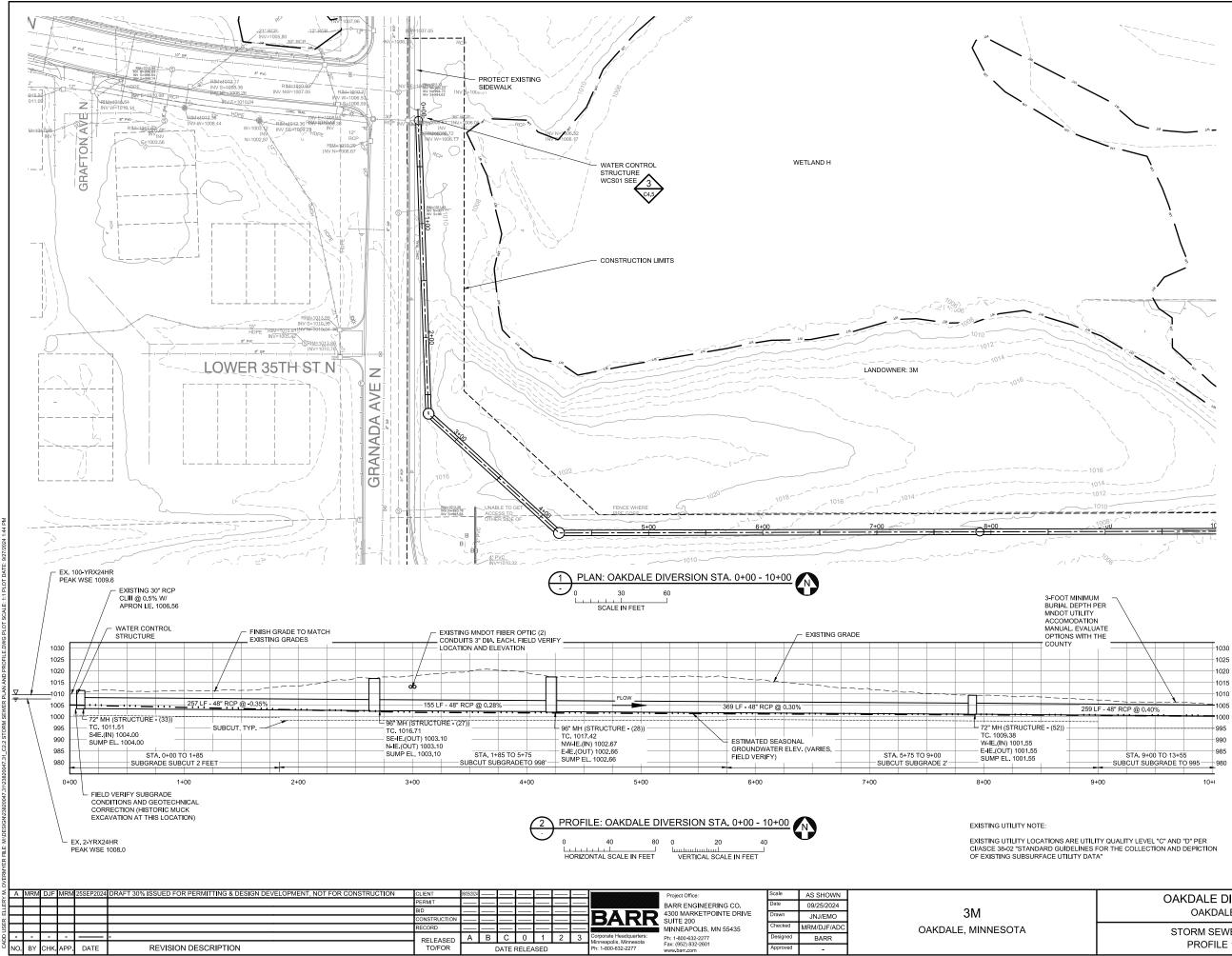
OVERN																		
Σ	A MRM	/ DJF	MRM	25SEP2024	DRAFT 30% ISSUED FOR PERMITTING & DESIGN DEVELOPMENT, NOT FOR CONSTRUCTION	CLIENT	09/25/20	.024		_					Project Office:	Scale	AS SHOWN	
ШШ						BID		_								Date	09/25/2024	
						CONSTRUCTION		_	-					DADD	4300 MARKETPOINTE DRIVE	Drawn		3M
ά						RECORD	_		-	_				BARR	SUITE 200	Diawii	JNJ/EMO	
B									_	_					MINNEAPOLIS, MN 55435	Checked	MRM/DFJ/ADC	OAKDALE, MN
a		-	-			RELEASED	A	В	С	0	1	2	3	Corporate Headquarters: Minneapolis, Minnesota	Ph: 1-800-632-2277 Fax: (952) 832-2601	Designed	BARR	
A C	ю. вү	СНК	APP.	DATE	REVISION DESCRIPTION	TO/FOR			DATE	RELEA	ASED			Ph: 1-800-632-2277	Fax: (952) 832-2601 www.barr.com	Approved		

TABLE: DOWNSTREAM BOUNDARY CONDITIONS SUMMARY: EXISTING VS. PROPOSED STORMWATER PEAK WSE (MODEL NODE RLE-940)

NOT F	DRAFT OR CONSTRUCTIO	N
OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT №. 23/82-0047. CLIENT PROJECT №.	35
OVERALL UTILITY PLAN AND STORMWATER DESIGN FLOW SUMMARY	DWG. No. C2.0	REV. No. A



ADLEY INTERSECTION	UTILITY PLAN	DWG. No. REV. No.
OAKDALE DIVE OAKDALE, M		23/82-0047.35 CLIENT PROJECT No.
		NOT FOR CONSTRUCTION
		DRAFT
+00 5+12		
994		
EXISTING DITCH		
998	FOR THE COL	LECTION AND DEPICTION OF 3SURFACE UTILITY DATA"
	UTILITY QUAL	ITY LOCATIONS ARE ITY LEVEL "C" AND "D" PER ? "STANDARD GUIDELINES
1000	EXISTING UTI	LITY NOTE: LITY LOCATIONS ARE
1002		_ CONSTRUCTION LIMITS
	\Box	FLARED END SECTION
1004	0	DIVERSION MANHOLE
		DIVERSION PIPE
	UTILI	TY LEGEND
1008	-	WETLAND FLOW LINE
	¢	LIGHT POLE
	(s)	SANITARY MANHOLE
	© EM	CABLE BOX
	OH R	
СН 383 — >	0	TELEPHONE MANHOLE
сн 399	₩ ₩	TRAFFIC SIGNAL
	Ē	ELECTRIC MANHOLE
	Ø	POWER POLE
Ε — Ε —		SIGN HAND HOLE
	N ² WWW	
	and the second s	CONIFEROUS TREE - DIAMETER
	\otimes	DECIDUOUS TREE - DIAMETER
	\bowtie	POTABLE WATER VALVE
		STORM SEWER CATCH BASIN
<u> </u>		STORM SEWER MANHOLE
1008		- PARCEL BOUNDARY
1000		SANITARY SEWER
	xx -	SITE FENCE
BOUNDARY / ROW		FENCE
PROPERTY	wт	WETLAND
\backslash	G	NATURAL GAS LINE
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\backslash		- OVERHEAD UTILITY
	——— E ———	- ELECTRIC
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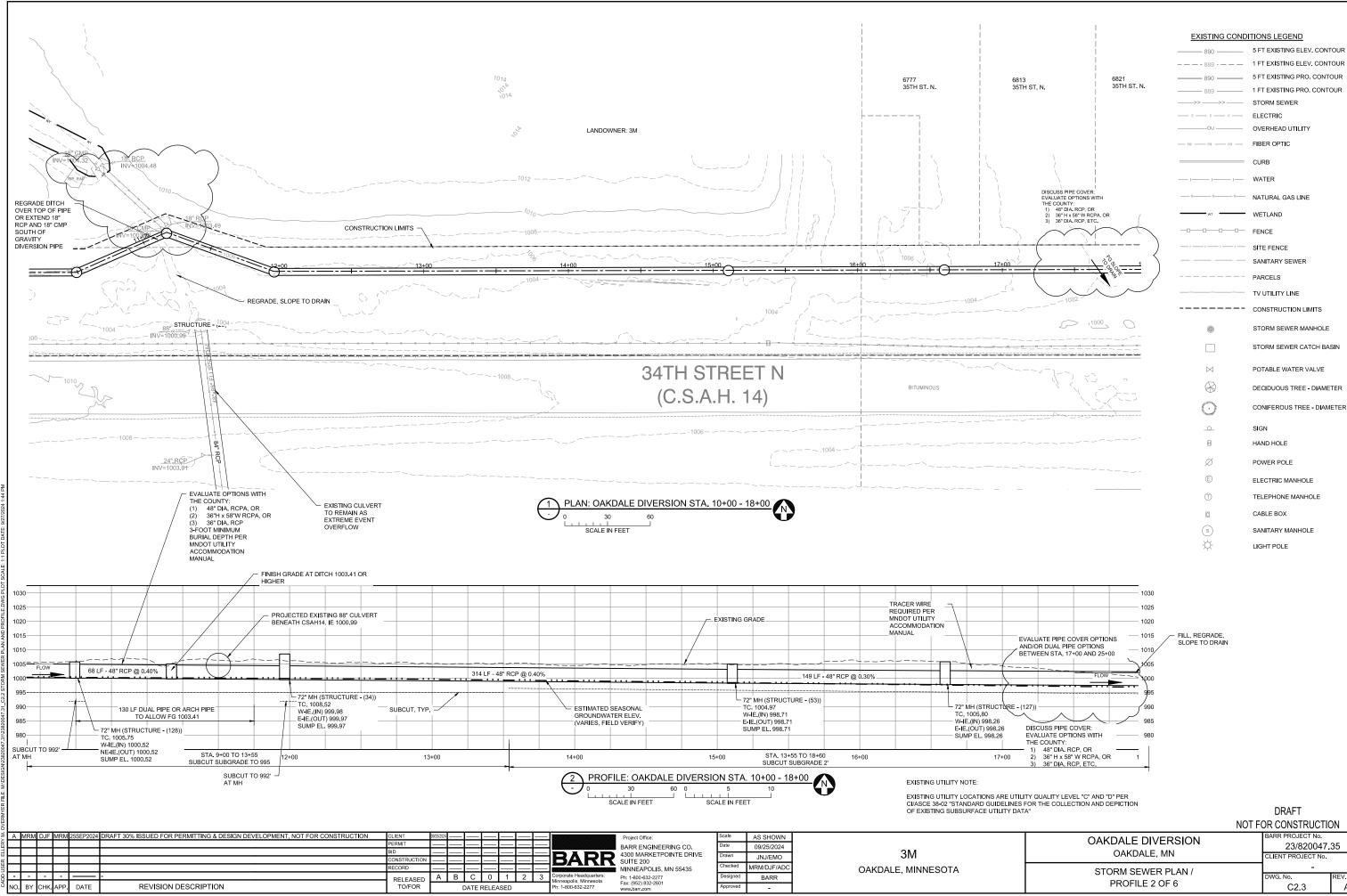
EXISTING CONDITIONS LEGEND		
890	5 FT EXISTING ELEV. CONTOUR	
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890	5 FT EXISTING PRO. CONTOUR	
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	CONSTRUCTION LIMITS
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	STORM SEWER CATCH BASIN
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Ø	POWER POLE
E	ELECTRIC MANHOLE
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	CABLE BOX
s	SANITARY MANHOLE
-¢-	LIGHT POLE

DESIGN NOTES:

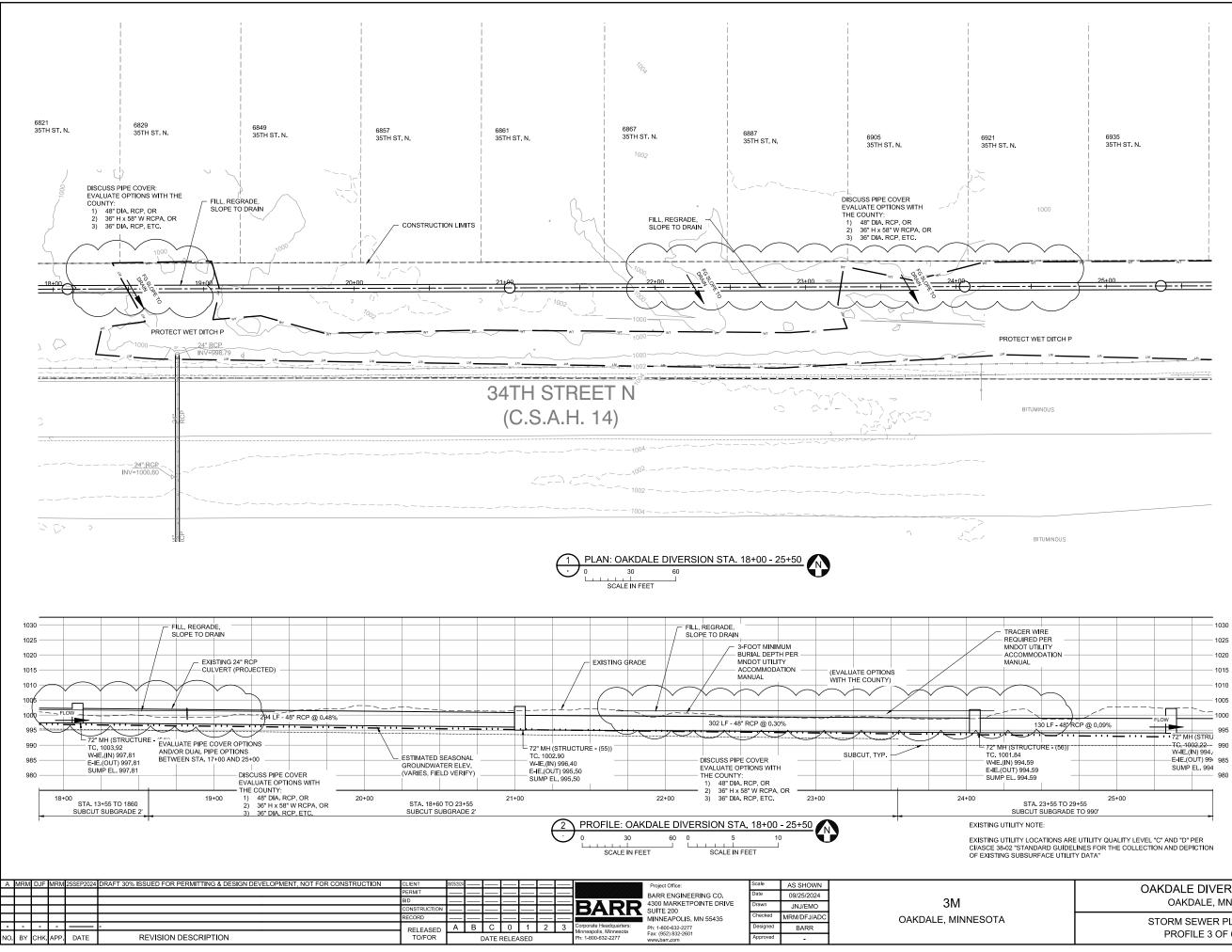
- 1. SUBCUT 24" MINIMUM, STRUCTURAL AGGREGATE GEOTECHNICAL CORRECTION BENEATH DIVERSION
- GEOTECHNICAL CORRECTION BENEATH DIVERSION PIPE.
 RECOMMEND TRENCH BOX INSTALLATION TO MINIMIZE SURFACE DISTURBANCE EXTENTS.
 CONTRACTOR RESPONSIBLE FOR ALL O.S.H.A. EXCAVATION REQUIREMENTS. CONTRACTOR SHALL FURNISH PRE-CERTIFIED DESIGN FOR ALL DEEP EXCAVATIONS, 20-FEET OR DEEPER.
 MIDBACTED SOIL STO DEE PER. MOVED. TRANSPORTED TO
- IMPACTED SOILS TO BE REMOVED, TRANSPORTED TO LANDFILL ALL WORK MUST BE DONE IN ACCORDANCE WITH APPROVED HEALTH AND SAFETY PLAN.
- ALL STORM MANHOLE STRUCTURES SHALL HAVE INTEGRAL BASE (NO BASE SLABS) AND ASTM C443 WATER-TIGHT JOINTS ON ALL RISER SECTIONS. 5
- ALL PIPE CONNECTIONS SHALL BE WATER-TIGHT ASTM 6
- C123 RESILIENT CONNECTORS (BOOTS PREFERRED). ALL PIPE JOINTS SHALL BE GASKETED, WATER-TIGHT PER ASTM C443.
- ALL WATER-TIGHT RCP PIPE SHALL BE LEAK-TESTED AND PRESSURE TESTED AFTER INSTALLATION PER: 1. ASTM C924 (LOW PRESSURE AIR TEST METHOD) 8.1.
 - ASTM C924 (LC ASTM C1103 ASTM 969 ASTM C1214
- 8.2. 8.3. 8.4.
- 8.5. ASTM 1628
- 8.6. AS DIRECTED BY ENGINEER

	DRAFT	
NOT F	OR CONSTRUCTIO	DN I
OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/820047.35 CLIENT PROJECT No.	
STORM SEWER PLAN / PROFILE 1 OF 6	- DWG. No. C2.2	REV. No. A



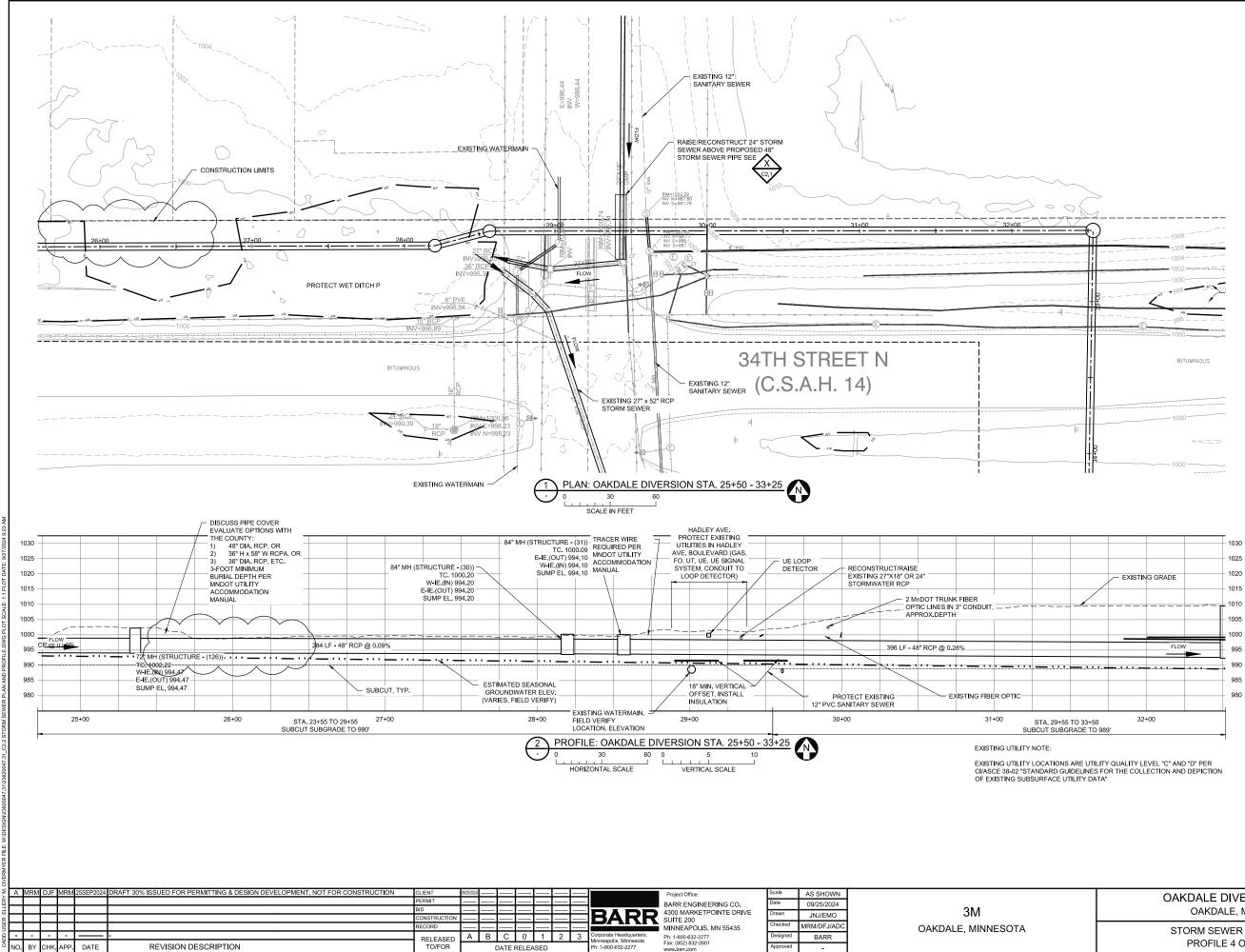
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OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/820047. CLIENT PROJECT No.	35
STORM SEWER PLAN / PROFILE 2 OF 6	- DWG. No. C2.3	REV. No. A



UTILITY DATA" N		DRAFT OR CONSTRUCTIO	ON
	OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/820047. CLIENT PROJECT No.	35
	STORM SEWER PLAN / PROFILE 3 OF 6	- DWG. No. C2.4	REV. No. A

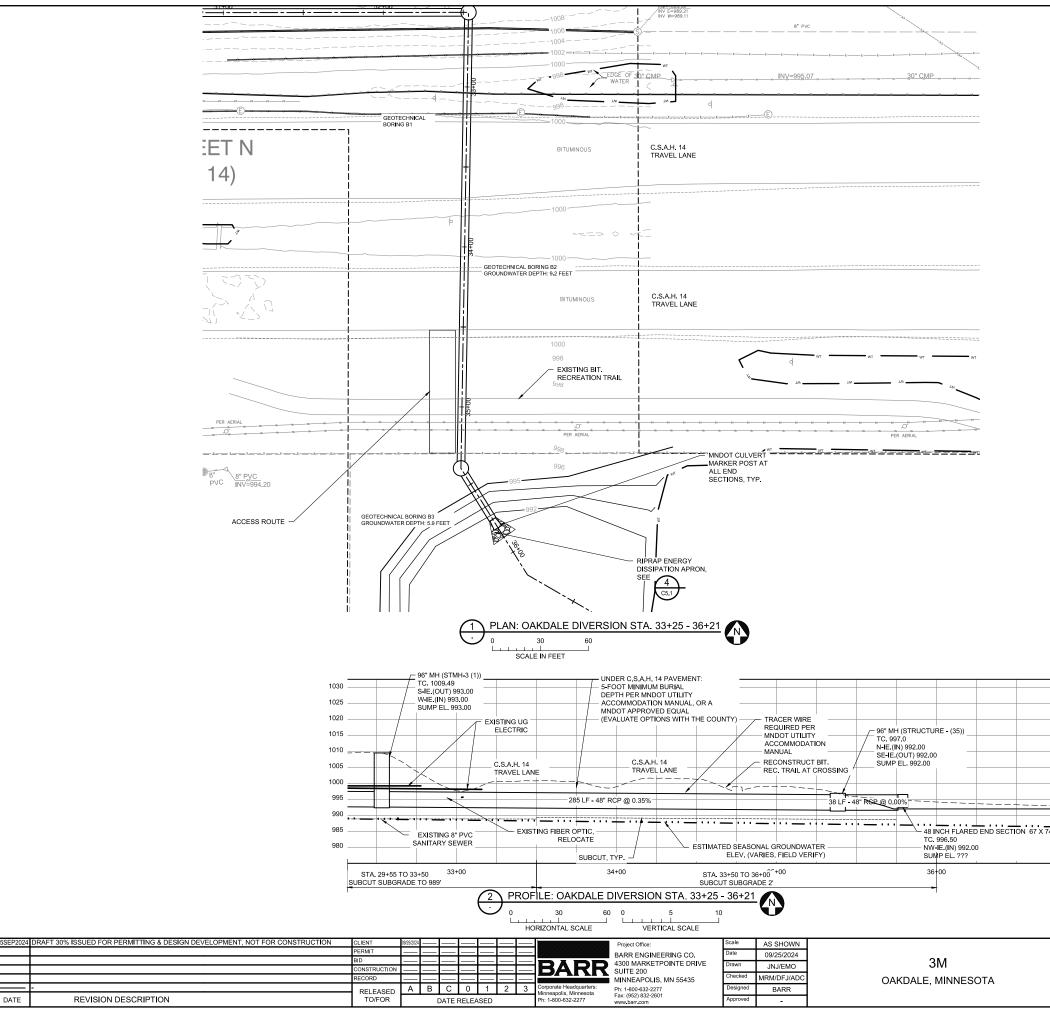
EXISTING CONDITIONS LEGEND		
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	CONSTRUCTION LIMITS	
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	STORM SEWER CATCH BASIN	
\bowtie	POTABLE WATER VALVE	
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\square	TELEPHONE MANHOLE	
	CABLE BOX	
s	SANITARY MANHOLE	
÷.	LIGHT POLE	



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OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/820047. CLIENT PROJECT No.	35
STORM SEWER PLAN / PROFILE 4 OF 6	- DWG. No. C2.5	REV. No. A

EXISTING	CONDITIONS	LEGEND

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	SANITARY SEWER
	PARCELS
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	CONSTRUCTION LIMITS
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	STORM SEWER CATCH BASIN
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AND	CONIFEROUS TREE - DIAMETER
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	OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047. CLIENT PROJECT No.	.35
	STORM SEWER PLAN / PROFILE 5 OF 6		REV. No. A

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	980	

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EXISTING UTILITY NOTE:

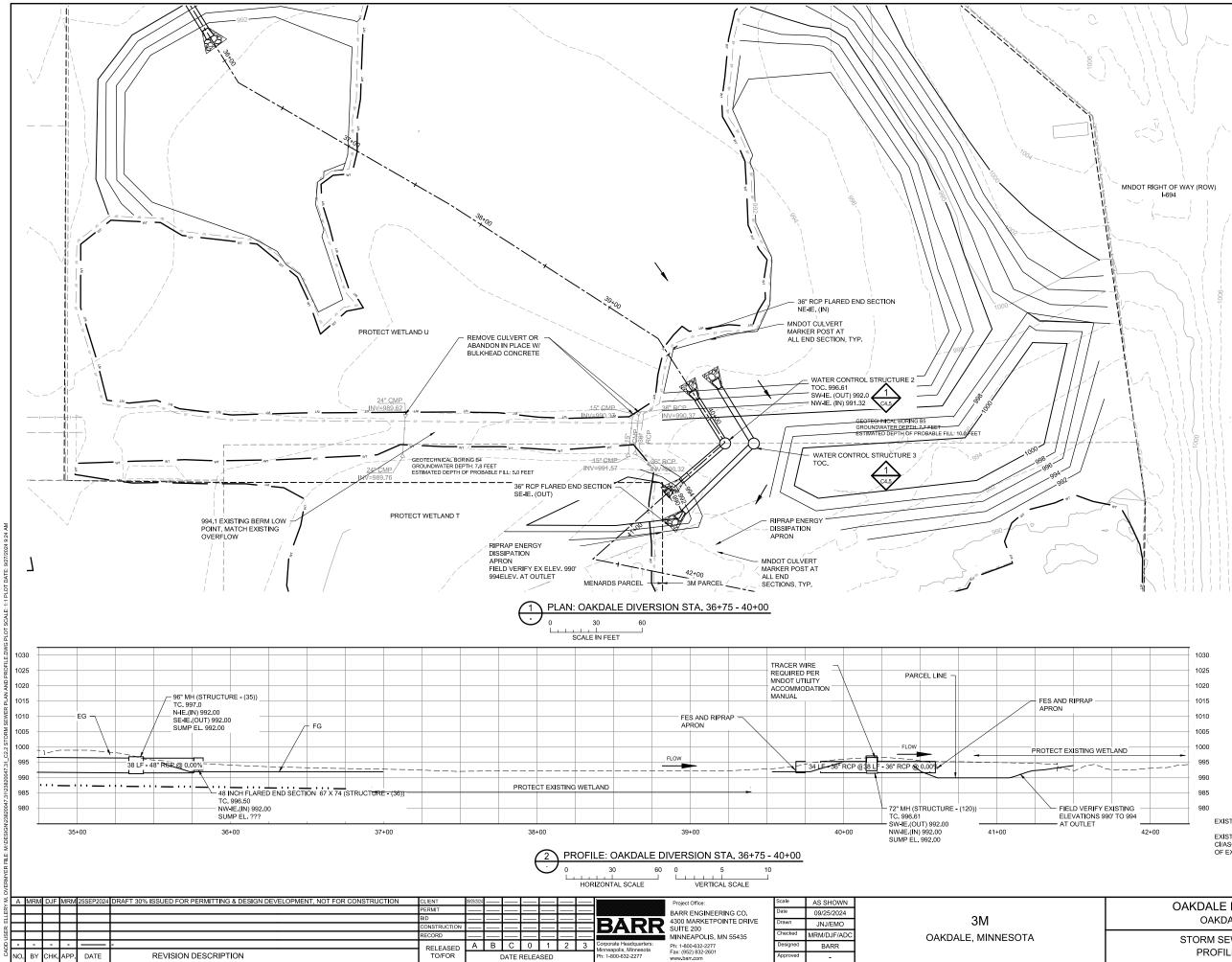
EXISTING UTILITY LOCATIONS ARE UTILITY QUALITY LEVEL "C" AND "D" PER CIASCE 38-02 "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

				D	R	A	F	Т		
_	_	-	_	-	-					

CABLE BOX
SANITARY MANHOLE
LIGHT POLE

EXISTING CONDI	TIONS LEGEND
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	CONSTRUCTION LIMITS
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	CABLE BOX
s	SANITARY MANHOLE
÷.	LIGHT POLE

EXISTING CONDITIONS LEGEND

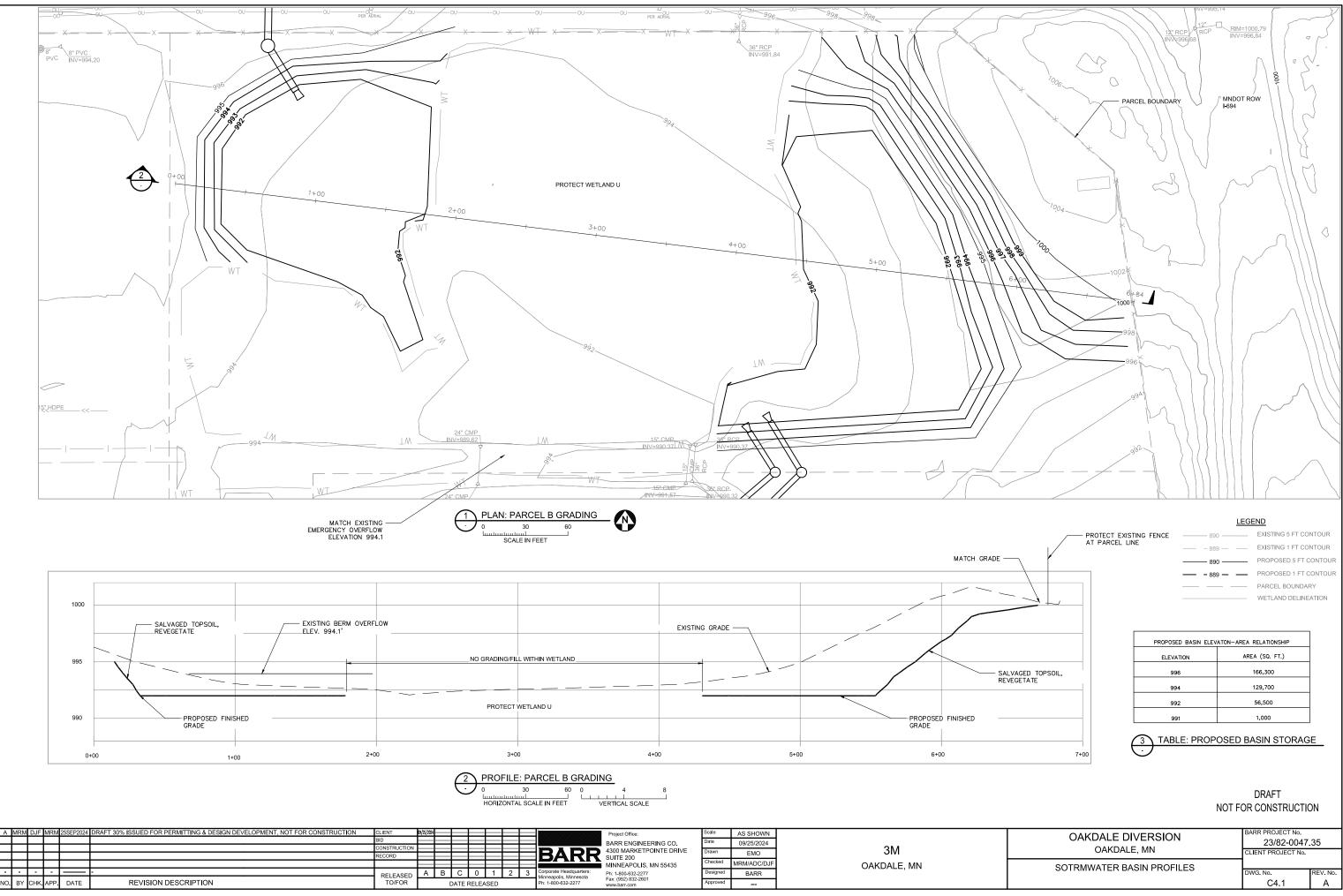


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	CABLE BOX
s	SANITARY MANHOLE
÷	LIGHT POLE

EXISTING UTILITY NOTE:

EXISTING UTILITY LOCATIONS ARE UTILITY QUALITY LEVEL "C" AND "D" PER CI/ASCE 38-02 "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

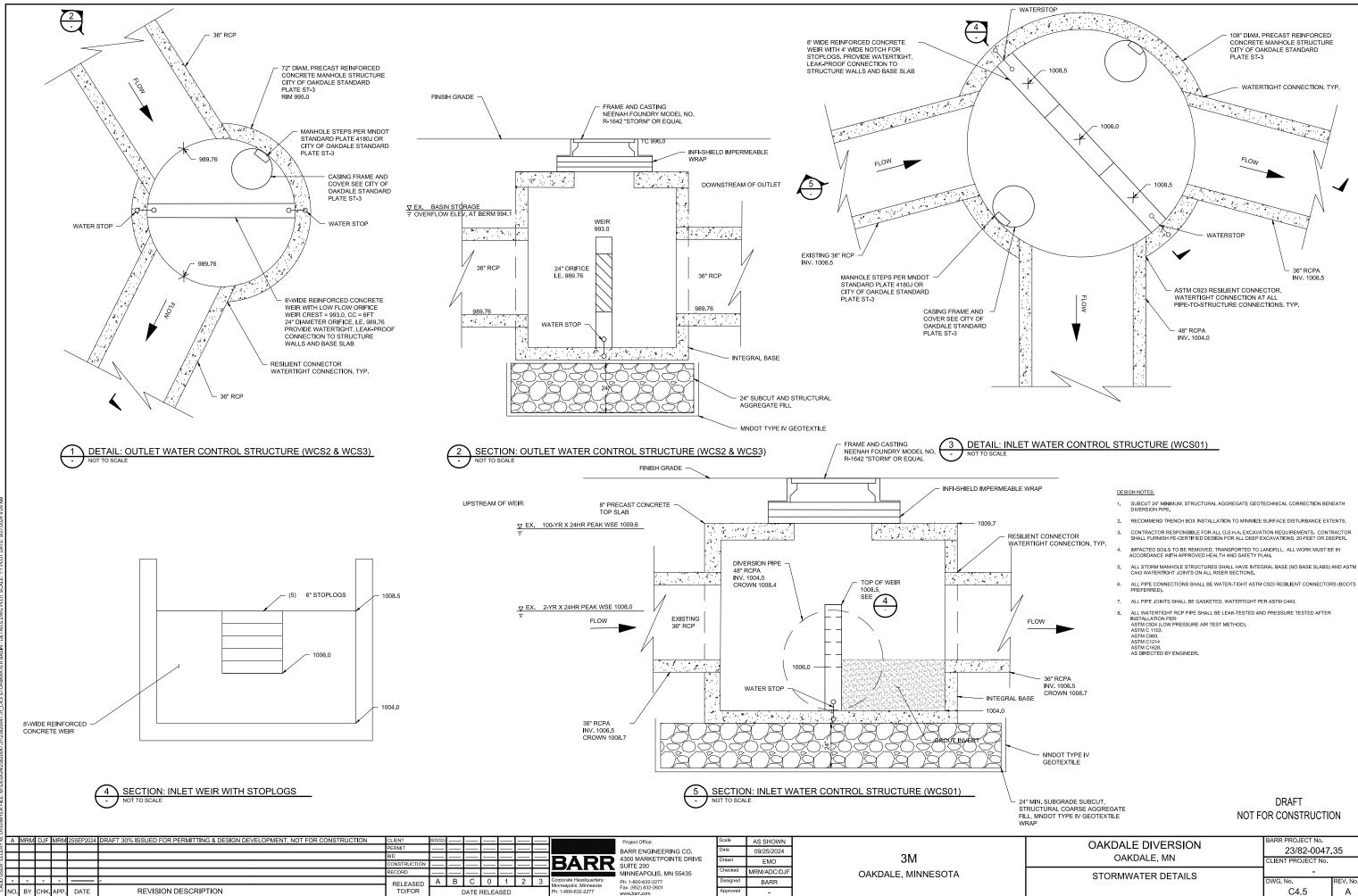
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	BARR PROJECT No. 23/82-0047	.35
OAKDALE, MN STORM SEWER PLAN /	CLIENT PROJECT N₀.	
PROFILE 6 OF 6	DWG. No. C2.7	REV. No. A



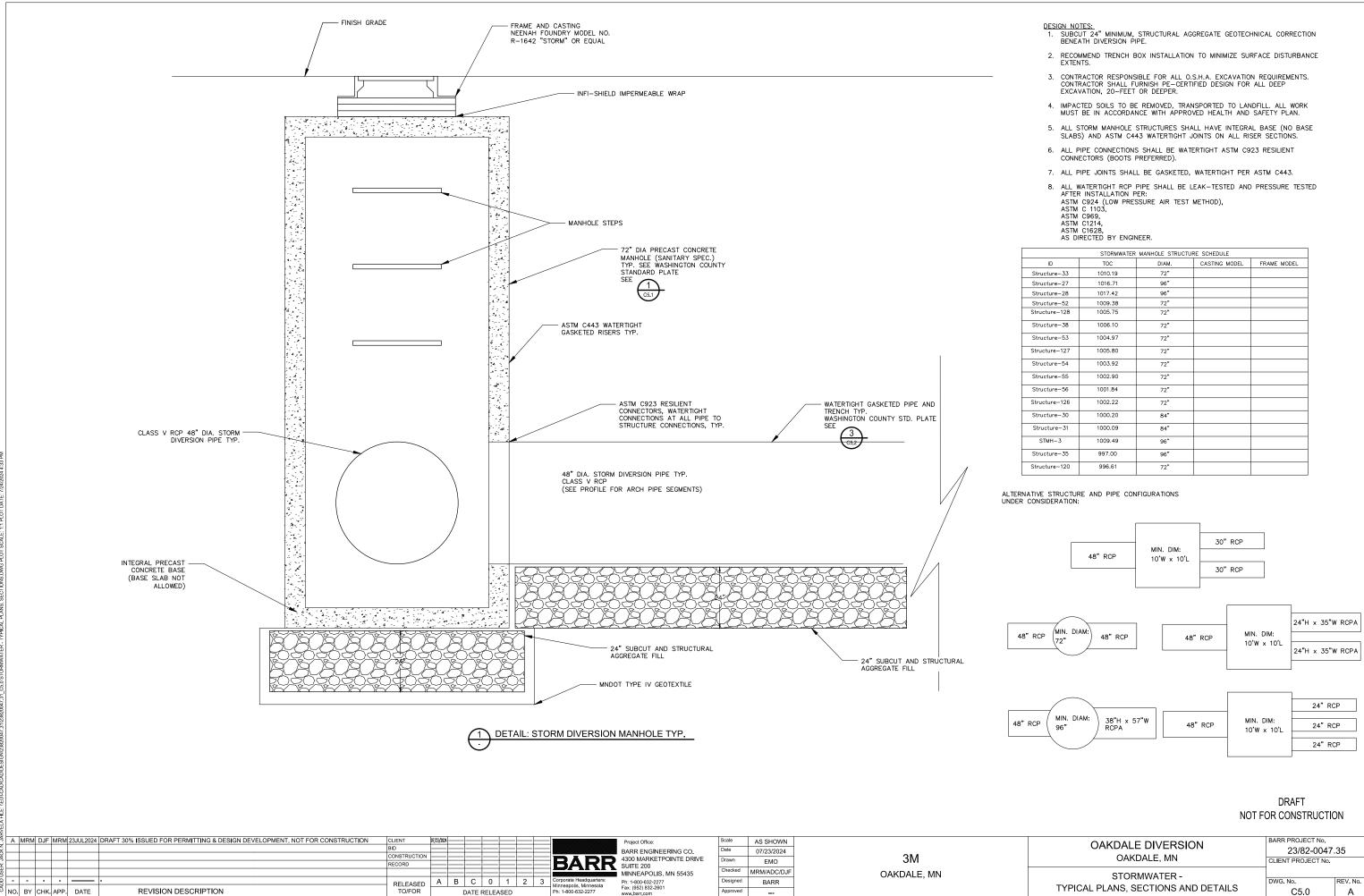
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- 889	E)
890	PF
<u> </u>	PF
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	W

PROPOSED BASIN ELEV	ATON-AREA RELATIONSHIP
ELEVATION	AREA (SQ. FT.)
996	166,300
994	129,700
992	56,500
991	1,000

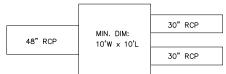
	BARR PROJECT №. 23/82-0047. CLIENT PROJECT №.	.35
SOTRMWATER BASIN PROFILES	DWG. No. C4.1	REV. No. A



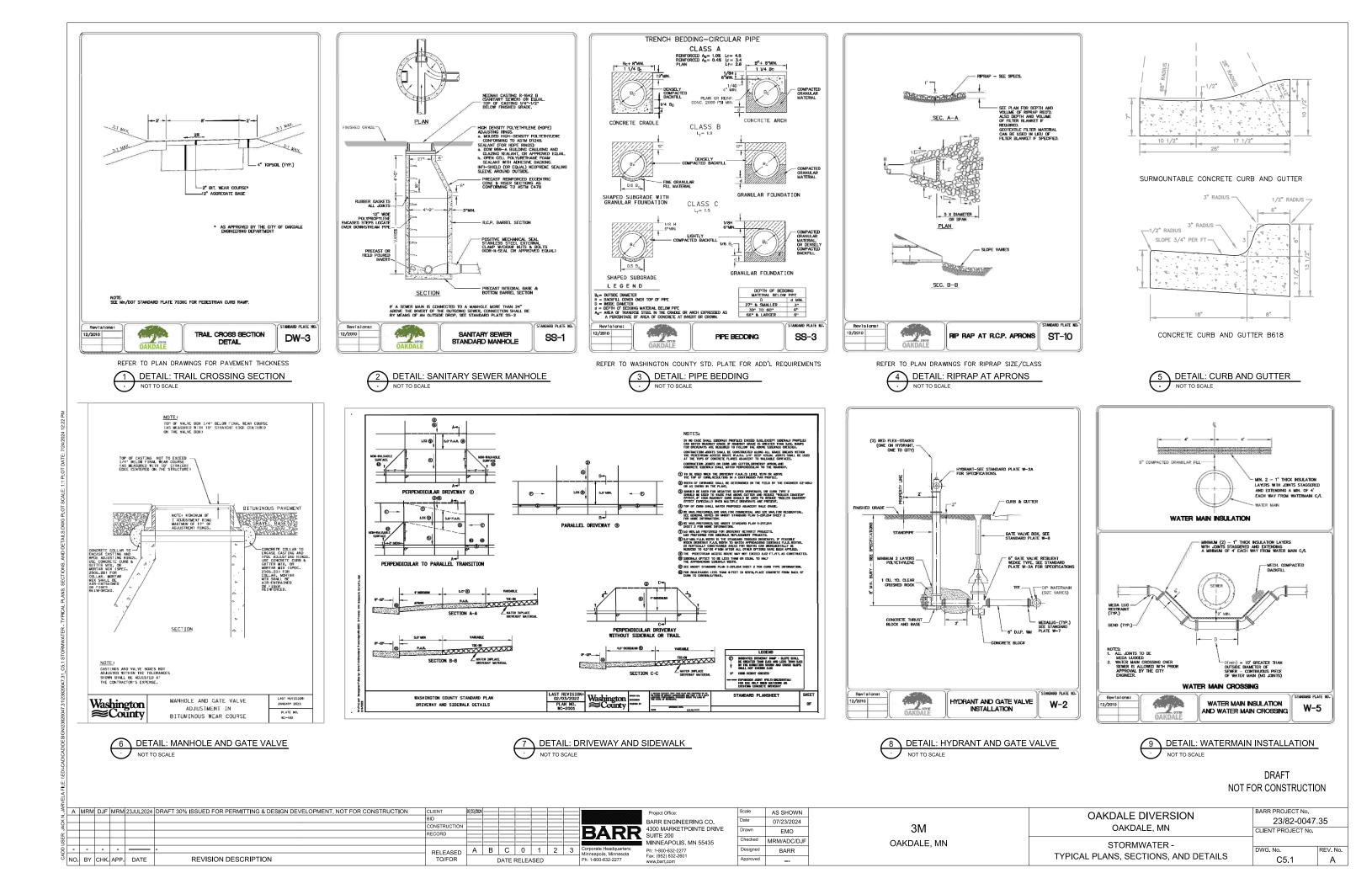
OAKDALE DIVERSION	BARR PROJECT No.	
	23/82-0047	.35
OAKDALE, MN	CLIENT PROJECT No.	
STORMWATER DETAILS	-	
STORANW/ TER BET/ IEG	DWG. No.	REV. No.
	C4.5	A

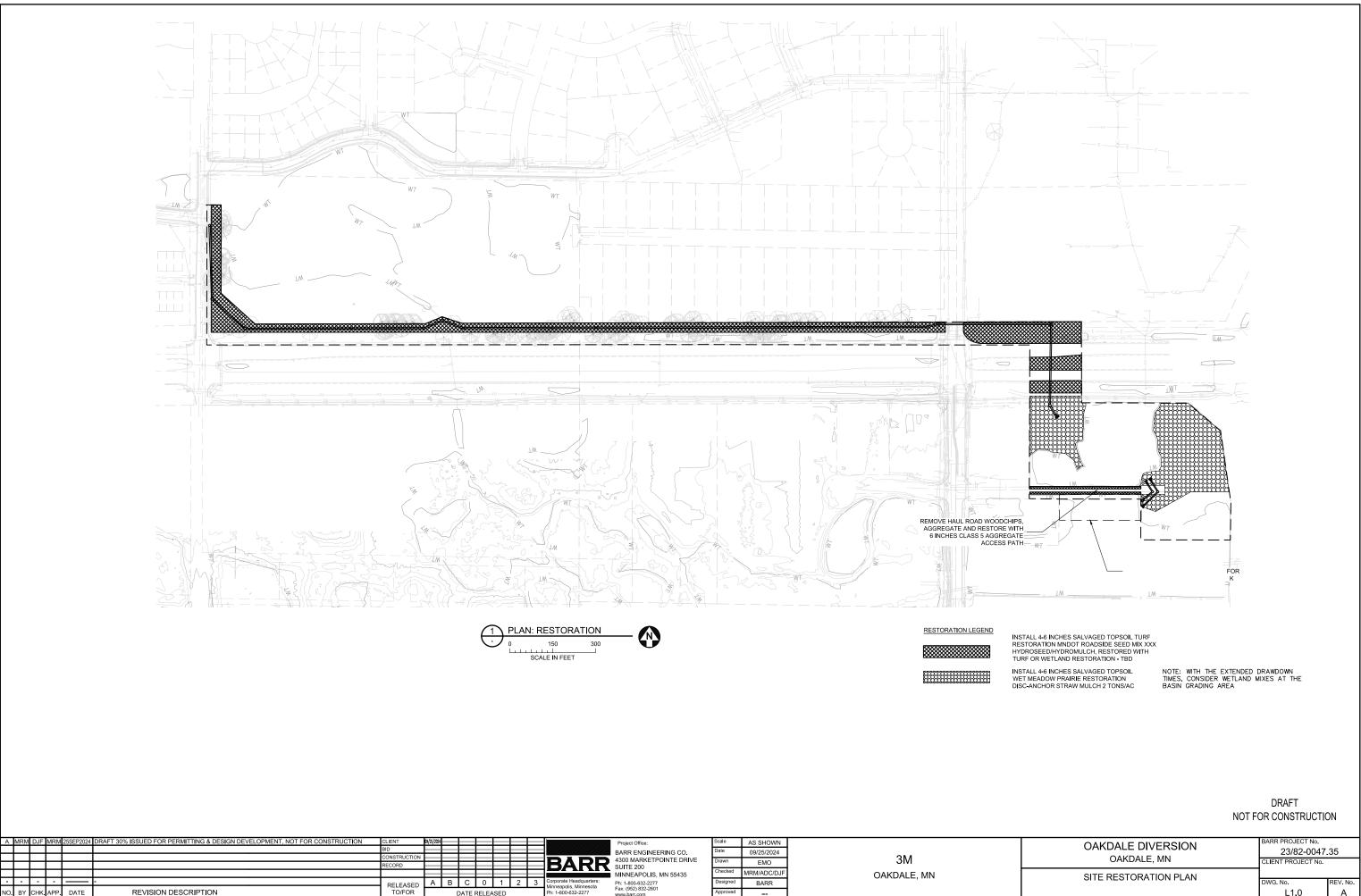


STORMWATER MANHOLE STRUCTURE SCHEDULE				
ID	TOC	DIAM.	CASTING MODEL	FRAME MODEL
Structure-33	1010.19	72"		
Structure-27	1016.71	96"		
Structure-28	1017.42	96"		
Structure-52	1009.38	72"		
Structure-128	1005.75	72"		
Structure-38	1006.10	72"		
Structure-53	1004.97	72"		
Structure-127	1005.80	72"		
Structure-54	1003.92	72"		
Structure-55	1002.90	72"		
Structure-56	1001.84	72"		
Structure-126	1002.22	72"		
Structure-30	1000.20	84"		
Structure-31	1000.09	84"		
STMH-3	1009.49	96"		
Structure-35	997.00	96"		
Structure-120	996.61	72"		



OAKDALE, MIN	CLIENT PROJECT No.	
STORMWATER -	DWG. No.	REV. No.
TYPICAL PLANS, SECTIONS AND DETAILS	C5.0	A





RELEASED TO/FOR

DATE RELEASED

REVISION DESCRIPTION

NO. BY CHK APP. DATE

linneapolis, Minnesota h: 1-800-632-2277

OAKDALE DIVERSION OAKDALE, MN	BARR PROJECT No. 23/82-0047.	.35
SITE RESTORATION PLAN	CLIENT PROJECT No.	
SHE RESTORATION FEAR	DWG. No. REV.	REV. No. A

