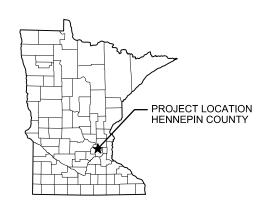
53RD ST W AND YORK AVE S FLOOD PROJECT

CITY OF MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

MINNEAPOLIS, MN CITY PROJECT # CSW03923ST002D

CONSTRUCTION PLANS FOR STORM SEWER IMPROVEMENTS TO REDUCE ALLEY AND STREET FLOODING ALONG WEST 53RD STREET FROM ABBOTT AVE TO XERXES AVE S AND ALONG YORK AVE S



LOCATION MAP

PROJECT LOCATION

GOVERNING SPECIFICATIONS

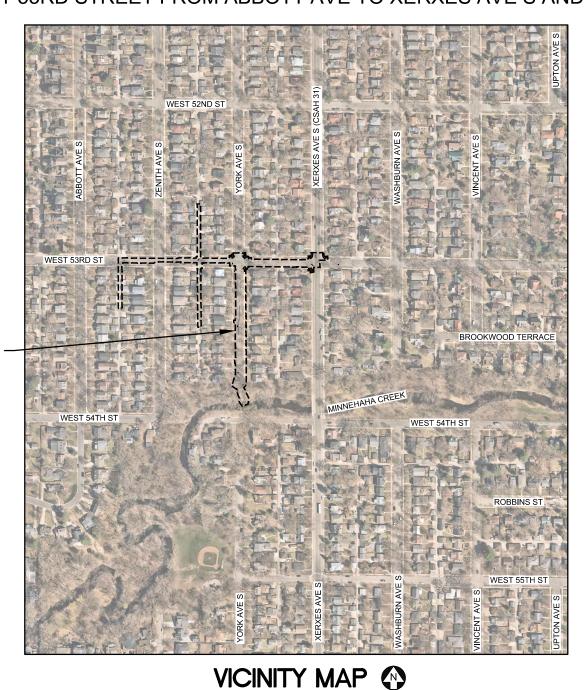
THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE MMUTCD PART VI, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

HORIZONTAL DATUM: NAD83 (2011) VERTICAL DATUM:



CALL BEFORE YOU DIG.



INDEX OF SHEETS

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42	C-36	PAVING AND RESTORATION DETAILS

THIS PLAN CONTAINS 42 SHEETS

APPROVED: MINNEAPOLIS CITY ENGINEER OR DEPUTY CITY ENGINEER	DATE
APPROVED: DIRECTOR, TRAFFIC & PARKING SERVICES	DATE
APPROVED: DIRECTOR, TRANSPORTATION ENGINEERING & DESIGN	DATE
APPROVED: DIRECTOR, TRANSPORTATION MAINTENANCE & REPAIR	DATE
APPROVED: DIRECTOR, TRANSPORTATION PLANNING & PROGRAMMING	DATE
APPROVED: DIRECTOR, SURFACE WATER & SEWERS	DATE
APPROVED: DIRECTOR, WATER TREATMENT & DISTRIBUTION	DATE

90% DESIGN ISSUED FOR REVIEW NOT FOR CONSTRUCTION

AS SHOWN 53RD ST W & YORK AVE S FLOOD PROJECT 23/27-2045.00 BARR ENGINEERING CO. 01/13/2025 CITY OF MINNEAPOLIS MINNEAPOLIS, MN 4300 MARKETPOINTE DRIVE EPF CSW03923ST002D PEB MINNEAPOLIS, MN 55435 MINNEAPOLIS, MINNESOTA TITLE SHEET AND SITE LOCATION MAP REVISION DESCRIPTION G-01 1/42

STATEMENT OF ESTIMATED QUANTITIES

Cat. No.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
2011.601	CONSTRUCTION LAYOUT AND STAKING	LS	1
2021.501	MOBILIZATION/DEMOBILIZATION	LS	1
2101.501	CLEARING AND GRUBBING	LS	1
2101.502	REMOVE EXISTING TREE	EA	7
2104.503	SAWCUT CONCRETE PAVEMENT (FULL DEPTH)	LF	1,368
2104.503	SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)	LF	2,730
2104.503	REMOVE WATER MAIN	LF	26
2104.503	REMOVE STORM SEWER PIPE	LF	2.253
2104.503	SAWCUT AND REMOVE CURB & GUTTER	LF	670
2104.503	REMOVE AND SALVAGE GUARDRAIL	LF	58
2104.503		EA	24
2104.504	REMOVE STORM MANHOLE OR CATCH BASIN	SY	951
	REMOVE CONCRETE PAVEMENT		
2104.504	REMOVE BITUMINOUS PAVEMENT	SY	3,073
2104.518	REMOVE CONCRETE WALK	SY	124
2108.504	GEOTEXTILE FABRIC TYPE 4	SY	49
2123.601	DAILY STREET SWEEPING	LS	1
2211.507	AGGREGATE BASE (CV) CLASS 5	CY	691
2360.509	BITUMINOUS PAVEMENT BASE COURSE	TON	432
2360.509	BITUMINOUS PAVEMENT WEAR COURSE	TON	259
2301.504	CONCRETE PAVEMENT	SY	10
2301.504	CONCRETE PAVEMENT (ALLEY)	SY	858
2412.503	UNDERGROUND STORAGE (UGS-1)	LS	1
2412.503	UNDERGROUND STORAGE (UGS-2)	LS	1
2412.503	UNDERGROUND STORAGE (UGS-3)	LS	1
2412.503	UNDERGROUND STORAGE (UGS-4)	LS	1
2501.502	42" RC PIPE APRON	EA	1
2503.503	12" RC PIPE SEWER	LF	206
2503,503	15" RC PIPE SEWER	LF	769
2503.503	18" RC PIPE SEWER	LF	20
2503.503		LF	226
	24" RC PIPE SEWER	LF	
2503.503	30" RC PIPE SEWER		128
2503.503	36" RC PIPE SEWER	LF	31
2503.503	42" RC PIPE SEWER	LF	558
2504.602	WATERMAIN OFFSET (6" DIP)	EA	1
2504.603	WATERMAIN CONCRETE ENCASEMENT	EA	2
2506.503	30" DIAMETER CATCH BASIN	EA	23
2506.503	48" DIAMETER STORM SEWER MANHOLE	LF	45
2506.503	60" DIAMETER STORM SEWER MANHOLE	LF	15
2506.503	72" DIAMETER STORM SEWER MANHOLE	LF	56
2506.503	84" DIAMETER STORM SEWER MANHOLE w CUSTOM CURB, PLATE & SUMP	LF	23
2506.503	MnDOT STRUCTURE 4021	EA	1
-	48" x 36" SAFL BAFFLE	EA	1
-	60" x 36" SAFL BAFFLE	EA	1
-	72" x 57" SAFL BAFFLE	EA	3
2506,602	CONNECT TO EXISTING STORM SEWER	EA	6
2511.507	RANDOM RIPRAP, CLASS IV	CY	36
2531.503	CONCRETE CURB & GUTTER (B618)	LF	615
2531.503		LF	55
	CONCRETE CURB & GUTTER (CUSTOM)		
2531.602	ADA PEDESTRIAN RAMP WITH TRUNCATED DOMES	EA	6
2554.603	INSTALL SALVAGED GUARDRAIL	LF	58
2563.601	TRAFFIC AND PEDESTRIAN SAFETY CONTROL MEASURES	LS	1
2571.502	PLUGS	EA	463
2572.503	TREE PROTECTION FENCING	LF	100
2573.501	STORM DRAIN INLET PROTECTION	EA	25
2573.503	FLOTATION SILT CURTAIN, LIGHT DUTY	LF	55
2573.503	SEDIMENT LOG	LF	316
2573.601	DEWATERING & WATER CONTROL	LS	1
2574.507	COMMON TOPSOIL BORROW	CY	100
2575.504	TURF SEEDING WITH HYDROMULCH	SY	52
2575,504	SEEDING WITH EROSION CONTROL BLANKET	SY	171

PLATE NO.	PLATE TITLE
SEWR-1000-R1	TYPICAL MANHOLE CONSTRUCTION (MnDOT DESIGN F MODIFIED)
SEWR-1001-R1	PRECAST RISER SECTIONS
SEWR-1002	MANHOLE POWER FLOW DETAIL
SEWR-1003	MANHOLE BASE SLAB
SEWR-1005	27" CENTER HOLE MANHOLE TOP SLAB
SEWR-1008-R1	PRECAST CATCH BASIN POT (MnDOT DESIGN N)
SEWR-1009	CATCH BASIN INSTALLATION
SEWR-1010	CATCH BASIN STRUCTURE REQUIREMENTS
SEWR-1011-R1	CONCRETE ADJUSTING RINGS (INSTALLATION DETAIL)
SEWR-1017	STANDARD CATCH BASIN CONSTRUCTION
SEWR-2000-R1	MANHOLE COVER CITY LOGO
SEWR-2001-R1	SELF-SEALING MANHOLE COVER
SEWR-2004	STANDARD MANHOLE CASTING
SEWR-2005	LOW PROFILE MANHOLE CASTING
SEWR-2006	CATCH BASIN CASTING
SEWR-2007	CURB BOX CASTING FOR CATCH BASIN
SEWR-2008	CATCH BASIN GRATE TYPE "V"
SEWR-3000	WATER STOP DETAIL
SEWR-3001	WATERTIGHT PIPE CONNECTION
SEWR-3004	CONCRETE PIPE TIES
SEWR-3005	RIPRAP AT RC PIPE OUTLETS (1 OF 2)
SEWR-4000	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
SEWR-4001	RC PIPE 66" AND UNDER (R-4 CONFINED O-RING GASKET JOINT, 1 OF 2)
SEWR-4002	RC PIPE 72" AND LARGER (R-4 CONFINED O-RING GASKET JOINT, 2 OF 2
SEWR-4003	RC PIPE BEND
SEWR-4014	CONCRETE APRON FOR RC PIPE
SEWR-4015	PVC PIPE STANDARDS
SEWR-8000	SEDIMENT CONTROL - CATCH BASIN STAND PIPE
SEWR-8001	SEDIMENT CONTROL - SILT FENCE
SEWR-8002	SEDIMENT CONTROL - ROCK ENTRANCE
SEWR-8003	INLET PROTECTION TYPE A&C
SEWR-8004	SEDIMENT CONTROL - POPE UP RISER
SEWR-8005	BLANKET STAPLING PATTERN
SEWR-8006	DEWATERING - TRASH PUMP
SEWR-8007	EROSION CONTROL NOTES
SEWR-8008	SEDIMENT CONTROL - FILTER LOG
WATR-2000-R2	HORIZONTAL OR VERTICAL WATERMAIN OFFSET
WATR-2001-R2	WATER SERVICE (LESS THAN 2")
WATR-2003-R2	WATER MAIN
WATR-3000-R2	PRECAST CONCRETE MANHOLE
WATR-4000-R3	REINFORCED CONCRETE ENCASEMENT FOR WATERMAINS
ROAD-1001	B-612 CURB AND GUTTER
ROAD-1009	REINFORCING AT CURB OUTLET
ROAD-1010	SAW CUT AT CURB AND GUTTER REMOVAL
ROAD-1011	RESTORATION REQUIREMENTS FOR BITUMINOUS CURB MATCH
ROAD-2003-R1	TYPICAL SIDWALK AND DRIVEWAY CONSTRUCTION
ROAD-2003-R2	TYPICAL SIDWALK AND DRIVEWAY CONSTRUCTION
ROAD-2004	GATES, MANHOLES, MONUMENTS, ETC. IN CONCRETE PAVEMENT
ROAD-3000	TYPICAL ALLEY SECTION
ROAD-5001	CONCRETE PAVEMENT SPOT CUTS FULL DEPTH RESTORATION

CITY OF MINNEAPOLIS STANDARD PLATES

MNDOT STANDARD PLATES			
PLATE NO.	PLATE TITLE		
STANDARD PLAN 5-297.811	ALTERNATIVE PEDESTRIAN ROUTE (APR) LAYOUTS		
STANDARD PLAN 5-297.813	TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) DEVICES		
STANDARD PLAN 5-297.250	PEDESTRIAN CURB RAMP DETAILS (1 - 6)		
STANDARD PLATE 3006	GASKET JOINT FOR R.C. PIPE		
STANDARD PLATE 4021	PRECAST CURB OPENING CATCH BASIN		

	CASTING ASSEMBLY SUMMARY						
ASSEMBLY	RING/FRAME CASTING	COVER/GRATE CASTING	CURB BOX	STANDARD PLATE NO.	PROPOSED QUANTITY	REMARKS	
M-13	SEWR-2004				7	CATCH BASIN (ALLEY)	
IVI-15		SEWR-2003			/	CATCH BASIN (ALLET)	
	806			4125			
B-13		816		4154	15	CATCH BASIN	
			824	4133			
	SEWR-2004						
A-8M		SEWR-2000-R1			28	STORM SEWER MANHOLE	
ОТН		NEENAH R-4341-A			3	84" DIA. STORM SEWER OUTLET STRUTURE	
OTH		SEWR-1012			1	MnDOT STRUCTURE 4021	

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IHEREBY 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. PRINTED NAME JENNIFER A. KOEHLER __LICENSE # _____47500

RELEASED

Project Office: BARR ENGINEERING CO. BARR 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435

AS SHOWN 01/13/2015 Drawn EPF PEB BARR

CITY OF MINNEAPOLIS MINNEAPOLIS, MINNESOTA

53RD ST W & YORK AVE S FLOOD PROJECT MINNEAPOLIS, MN ESTIMATED QUANTITIES AND STANDARD PLATES

BARR PROJECT No. 23/27-2045.00 LIENT PROJECT No CSW03923ST002D OWG. No. SHEET No. REV. No. G-02 2/42 D

BASIS OF ESTIMATED QUANTITIES: INCIDENTAL ITEMS 1.1. REMOVAL OF ABANDONED GAS SERVICES 2. AGGREGATE CLASS 5 UNDER SIDEWALKS, DRIVEWAYS, CURB,

CONCRETE, AND BITUMINOUS PAVEMENT INCIDENTAL TO PAY ITEM. 3. 30" DIAMETER RC CATCH BASINS INCLUDE CASTINGS.

4. STORM SEWER STRUCTURE LENGTHS ARE MEASURED VERTICALLY FROM RIM TO TOP OF BASE SLAB.

5. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES AND DO NOT INCLUDE LENGTHS OF APRONS. PIPE LENGTHS IN/OUT OF BOX CULVERTS ARE MEASURED WITH 2' BEYOND OUTSIDE WALL OF BOX.

6. LUMP SUM ITEMS ARE INCLUDED IN SUMMARY QUANTITY TABLES ON EACH SHEET THAT THEY APPEAR ON

7. CONNECTION TO EXISTING PIPING IS INCIDENTAL TO THE COST OF STORM SEWER STRUCTURES

CONTACTS

BARR ENGINEERING CO 4300 MARKET POINT DRIVE MINNEAPOLIS, MN 55435 WEB PAGE: www.barr.com CONTACT: PATRICK BROCKAMP, PE PH: 952-842-3593 FAX: 952-832-2601

EMAIL: pbrockamp@barr.com

DESIGN ENGINEER

CONSTRUCTION ENGINEER

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COMCAST CABLE COMMUNICATIONS, INC.

2800 WAYZATA BLVD, 3RD FLOOR

MINNEAPOLIS, MN 55405

TEL: 701-866-7952

CONTACT: BRANDON AMAN

EMAIL: baman@terratechlic.net

US INTERNET 12450 WAYZATA BLVD., #315 MINNETONKA, MN 55305 CONTACT: ROB SERGIACOMI TEL: 612-747-6174 EMAIL: rsergiacomi@usinternet.comcom

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CONTACT: ANDREW BALGOBIN

414 NICOLLET MALL - CSC 1,

EMAIL: ralph.a.broad@xcelenergy.cor

CITY OF MINNEAPOLIS WATER

MINNEAPOLIS, MN 55415

CONTACT: JOSH BROWN

217 WEST RIVER ROAD N

MINNEAPOLIS, MN 55441

TEL: 612-283-9496

CONTACT: MADELINE HUDEK

EMAIL: mhudek@minneapolisparks.org

TEL: 612-719-2615

MINNEAPOLIS WATER

250 SOUTH 4TH STREET, ROOM 300 PSC

EMAIL: ioshua.brown@minneapolismn.gov

MINNEAPOLIS PARK &

RECREATION BOARD

MINNEAPOLIS, MN 55401

TEL: 612-216-8226

CONTACT: RAI PH BROAD

CENTERPOINT ENERGY

MINNEAPOLIS, MN 55440

TEL: 612-321-5425

XCEL ENERGY

CITY OF MINNEAPOLIS

CITY OF MINNEAPOLIS PUBLIC WORKS 250 SOUTH 4TH STREET, ROOM 300 PSC MINNEAPOLIS, MN 55415 WEB PAGE: www2.minneapolismn.gov CONTACT: ROSE STENGLEIN PH: 612-673-3584 EMAIL: rose.stenglein@n CONTACT: LISA GODDARD, PE PH: 612-673-2096

EMAIL: lisa.goddard@minneapolismn.gov FOREST PRESERVATION

MINNEAPOLIS PARKS & RECREATION 2117 WEST RIVER ROAD MINNEAPOLIS, MN 55411 WEB PAGE: www2.minneapolisparks.org CONTACT: RALPH SIEVERT PH: 612-313-7735 EMAIL: forestry@minneapolisparks.org CONTACT: CRAIG PINKALLA PH: 612-499-9233

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CITY OF MINNEAPOLIS TRAFFIC 250 SOUTH 4TH STREET, ROOM 300 PSC MINNEAPOLIS, MN 55415 CONTACT: BRANDON SANDBERG PH: 612-673-5319 EMAIL: brandon.sandberg@r

MINNEAPOLIS STREET CONSTRUCTION

CITY OF MINNEAPOLIS STREET CONSTRUCTION 1901 E 26TH STREET MINNEAPOLIS, MN 5540 CONTACT: LARRY MATSUMOTO TEL: 612-673-5630 EMAIL: larry.matsumoto@minneapolismn.gov

MINNEHAHA CREEK WATERSHED DISTRICT

15320 MINNETONKA BLVD. MINNETONKA, MN 55435 CONTACT: VERONICA SANNES TEL: 952-641-4580 EMAIL: vsannes@minnehahacreek.org

COMMUNICATIONS

GENERAL NOTES

- TOPO AND CONTROL GROUND SURVEY CONDUCTED BY THE CITY OF MINNEAPOLIS IN
- MINIMIZE DISTURBANCE OF EXISTING VEGETATION, WITH THE EXCEPTION OF AREAS OF VEGETATION REMOVAL AS INDICATED ON THE DRAWINGS
- DO NOT DISTURB TREES AND SHRUBS NOT MARKED FOR REMOVAL, INCLUDING MINIMIZING DISTURBANCE OF SOILS WITHIN THE TREE DRIPLINE, DO NOT STOCKPILE MATERIALS OR DRIVE VEHICLES/EQUIPMENT WITHIN TREE DRIPLINE(S) UNLESS APPROVED BY ENGINEER.
- MAINTAIN IN OPERATION ALL EXISTING UTILITIES FOR THE DURATION OF CONSTRUCTION,
- INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO DISTURBING ANY SOIL.
- 6. SEQUENCE, INSTALL, MAINTAIN AND MONITOR ALL CONTROL OF WATER AND EROSION AND SEDIMENTATION CONTROL MEASURES.
- INLET PROTECTION IS ASSUMED FOR ALL EXISTING CATCH BASINS AND ALL NEW CATCH BASINS, THE TOTAL QUANTITY BEING EQUAL TO THE TOTAL NUMBER OF NEW CATCH BASINS (INLET PROTECTION GETS TRANSFERRED FROM EXISTING TO NEW ONCE
- 8. SWEEP PAVEMENT DAILY, OR AS REQUIRED TO KEEP FROM TRACKING MATERIALS OFFSITE.
- REPAIR OR REMOVE ITEMS THAT ARE DAMAGED. REPAIR AND REPLACE DAMAGED ITEMS TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXIST PRIOR TO THE START OF WORK.
- 10. OBTAIN ANY REQUIRED PERMITS, NOT PROVIDED BY THE ENGINEER, BEFORE PERFORMING
- 11. THE PLAN INDICATES THE APPROXIMATE LOCATIONS OF THE KNOWN UTILITIES ON THE PROJECT. CITY OF MINNEAPOLIS IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS AND ASCERTAINING THE LOCATION OF ALL EXISTING LINDERGROUND LITHLITIES BEFORE PERFORMING EXCAVATION OPERATIONS. THE CITY OF MINNEAPOLIS SHALL CONDUCT OPERATIONS IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES IN A MANNER THAT
- 12. STATE LAW REQUIRES ANYONE EXCAVATING OR DRILLING IN THE GROUND IN THE STATE OF MINNESOTA WITH POWER EQUIPMENT TO CALL GOPHER ONE CALL AT (651) 454-0002 OR (800) 252-1166 FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE STARTING WORK.
- 13. THE CITY OF MINNEAPOLIS IS SOLELY RESPONSIBLE FOR JOB-SITE CONDITIONS AND SAFETY PROCEDURES AND PROGRAMS, INCLUDING SAFETY AND HEALTH OF ALL PERSONS AND PROPERTY ON THOSE PORTIONS OF THE SITE AFFECTED BY OR USED BY THE CITY OF MINNEAPOLIS, SUBCONTRACTORS, AGENTS, AND OTHERS DURING PERFORMANCE OF THE
- 14. ASSUMPTIONS FOR LOCATIONS OF PRIVATE UTILITIES, WATER LINES, AND SANITARY SERVICES:
- 14.1. WATER MAINS ARE 7.5 - 8.5' DEPTH TO BOTTOM OF PIPE.
- WATER SERVICES ARE 7 8' DEPTH TO CENTERLINE
- 14.3. SANITARY SERVICES ARE A MINIMUM OF 10' TO BOTTOM OF PIPE.
- 14.4 FIBER OPTIC CONDUITS ARE 3' DEPTH TO CENTERLINE
- 14.5. GAS LINES ARE 3' DEPTH TO CENTERLINE.
- 14.6. COMMUNICATION CONDUITS AND DUCTS ARE 3' DEPTH TO CENTERLINE.
- TRAFFIC UTILITIES ARE 20" TO TOP OF 4" ELECTRIC LINE.
- 15. PROTECT ALL STRUCTURES AND UTILITIES WHICH ARE NOT BEING REMOVED
- 16. PROTECT EXISTING PROPERTY CORNERS AND SURVEY MONUMENTS. THE CITY OF MINNEAPOLIS SHALL BE RESPONSIBLE TO RESET IF DISTURBED, (INCIDENTAL).
- 17. REMOVE DEBRIS FROM SITE AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS. DISPOSITION OF EXCAVATED MATERIAL SHALL BE IN ACCORDANCE WITH MnDOT STANDARD SPECIFICATION 2106.3.J.
- 18. SAWCUT INPLACE PAVEMENT WHERE IT WILL ABUT NEW PAVEMENT TO ENSURE A UNIFORM JOINT. SAWCUT AT NEAREST JOINT.
- 19. CONCRETE PAVEMENT MIX ID SHALL BE AS PER CITY OF MINNEAPOLIS SPECIFICATION FOR
- 20. THE EXISTING CONCRETE AND BITUMINOUS PAVEMENT REMOVED MAY BE RECYCLED IN ACCORDANCE WITH APPLICABLE MIDDOT SPECIFICATIONS. MATERIAL NOT UTILIZED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CITY OF MINNEAPOLIS AND DISPOSED OF OUTSIDE THE RIGHT OF WAY IN ACCORDANCE WITH MnDOT STANDARD
- 21. ANY DEBRIS ENCOUNTERED DURING GRADING SHALL BE DISPOSED OF BY THE CITY OF MINNEAPOLIS OFF THE PROJECT RIGHT OF WAY IN A SUITABLE DISPOSAL AREA
- 22. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL BE IN CONFORMANCE WITH THE LINES GRADES CROSS SECTIONS DIMENSIONS AND MATERIAL REQUIREMENTS. INCLUDING TOLERANCE, SHOWN IN THE PLANS OR INDICATED IN THE SPECIFICATIONS.
- 23. ALL STREET DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. ALL CURB ELEVATIONS ARE TO FLOW LINE OF CURB UNLESS OTHERWISE NOTED. STRUCTURE LOCATIONS ARE TO CENTER OF STRUCTURE. CASTING ELEVATIONS ARE GIVEN TO FLOW
- 24. PIPE SEWERS, CONNECTION MANHOLES AND CATCH BASINS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS 2503 AND 2506 BEDDING AND BACKFILL SHALL CONSIST OF UNIFORM SELECT GRADING MATERIAL MATCHING ADJACENT SOILS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 25. HIGH EARLY STRENGTH CONCRETE WILL BE USED IN LOCATIONS WHERE CURING TIME REQUIRED OR STANDARD STRENGTH CONCRETE WOULD SERIOUSLY INTERFERE WITH TRAFFIC OR PRIVATE BUSINESS.
- 26. THE PITCH OF GUTTER AND HEIGHT OF THE CURB MAY BE ADJUSTED AND MINOR

CHANGES MADE TO MEET EXISTING CONDITIONS AT THE DISCRETION OF THE CITY OF

- 27. ALL PRIVATELY OWNED UTILITY MANHOLES TO BE RESET BY OWNER. CITY OF MINNEAPOLIS TO COORDINATE AND SCHEDULE WORK WITH UTILITY OWNER.
- 28. A CONTRACTION JOINT SHALL BE CUT EVERY 10' IN THE SURFACE OF THE CONCRETE CURB AND GUTTER. JOINTS SHALL MATCH CONCRETE PAVEMENT JOINTS WHERE APPLICABLE.
- 29. DIMENSIONS TO SIDE STREET CONSTRUCTION LIMITS ARE APPROXIMATE. SAWCUT TO THE
- 30. PREFORMED JOINT MATERIAL SHALL CONFORM TO SPEC, 3702. HOT POURED JOINT MATERIAL SHALL CONFORM TO SPEC. 3723.
- 31. PROTECT AND MAINTAIN ACCESS TO EXISTING HYDRANTS AND GATE VALVES THROUGHOUT CONSTRUCTION.
- 32. COMPACTION SHALL BE ACHIEVED BY THE 'SPECIFIED DENSITY COMPACTION METHOD' UNLESS OTHERWISE DIRECTED BY ENGINEER.
- 33. SELECT GRANULAR EMBANKMENT SHALL MEET THE REQUIREMENTS OF MnDOT STANDARD
- 34. SELECT GRADING MATERIAL ON THE PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL
- 35. AGGREGATE BASE COMPACTION REQUIREMENTS FOR AGGREGATE BASE 4 INCHES OR LESS SHALL BE IN ACCORDANCE WITH SPECIFICATION 2211,3,D,2,b QUALITY COMPACTION
- 36. MINNEAPOLIS STANDARD PLATES SHALL TAKE PRECEDENT OVER MnDOT STANARD
- 37. GRATES, MANHOLES, MONUMENTS, ETC. IN CONCRETE PAVEMENT SHALL BE REINFORCED PER STANDARD PLATE NO. ROAD-2004

PROJECT COORDINATION:

- COORDINATE EXCAVATION AND ALL IMPACTS TO EXISTING TREES NOT BEING REMOVED WITH MPRB FOREST PRESERVATION COORDINATOR (CRAIG PINKALLA).
- COORDINATE REMOVAL OF EXISTING LEAD WATER SERVICE LINES WITH CITY OF MINNEAPOLIS WATER DEPARTMENT.
- COORDINATE MILL AND OVERLAY OF STREETS WITHIN PROJECT AREA WITH CITY OF MINNEAPOLIS STREETS DEPARTMENT.
- COORDINATE RELOCATION OF EXISTING COMMUNICATION LINES WITH LUMEN.
- COORDINATE RELOCATION OF EXISTING GAS MAIN AND SERVICES WITH CENTERPOINT.
- COORDINATE REPLACEMENT OF PEDESTRIAN RAMPS WITH THE FULTON ADA RAMP
- COORDINATE WORK AND TRAFFIC IMPACTS ON XERXES WITH HENNEPIN COUNTY AND METRO TRANSIT

MASTER LEGEND

EXISTING 10' CONTOUR —962— — EXISTING 2' CONTOUR EXISTING PROPERTY LINE EXISTING EASEMENT EXISTING STORM SEWER EXISTING SANITARY SEWER --- GAS -----EXISTING GAS LINE ABANDONED GAS LINE EXISTING WATERMAIN EXISTING UNDERGROUND TELEPHONE EXISTING OVERHEAD ELECTRIC ___ OF ____ EXISTING FIBER OPTIC ___ FO ____ EXISTING FENCE EXISTING TRAFFIC UTILITY EXISTING WETLAND DELINEATION OHWI 100-YEAR HWL CONSTRUCTION LIMITS EXISTING LIGHT POLE EXISTING UTILITY POLE -()-EXISTING HYDRANT EXISTING WATER VALVE \bigcirc EXISTING WATER MANHOLE EXISTING SIGN EXISTING SANITARY MANHOLE EXISTING STORM MANHOLE EXISTING TREE EXISTING TREE REMOVAL • SOIL BORING REMOVE PAVEMENT REMOVE CURB AND GUTTER __ × __ × __ × __ REMOVE STORM SEWER ~^^^^ REMOVE ABANDONED GAS LINE REMOVE STORM STRUCTURE PROPOSED 5' CONTOUR ----816------PROPOSED 1' CONTOUR PROPOSED EASEMENT PROPOSED TREE PROTECTION FENCING PROPOSED ROCK FILTER DIKE PROPOSED SEDIMENT LOG PROPOSED STORM SEWER PROPOSED WATER SERVICE PROPOSED INLET PROTECTION PROPOSED CONCRETE PAVING \times \times \times PROPOSED BITUMINOUS PROPOSED TURF SEEDING WITH HYDROMULCH PROPOSED SEEDING WITH ROLLED

> 90% DESIGN ISSUED FOR REVIEW NOT FOR CONSTRUCTION

> > ARR PROJECT N

53RD ST W & YORK AVE S FLOOD PROJECT

CONTACTS, GENERAL NOTES, AND LEGEND

REVISION DESCRIPTION

PORT WAS PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY LICENSED
ROFESSIONAL ENGINEER LINDER THE LAWS OF TH STATE OF MINNESOTA NTED NAME JENNIFER A. KOEHLER A B C D 0 1 RELEASED LICENSE # __ 47500

BARR

BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE MINNEAPOLIS, MN 55435

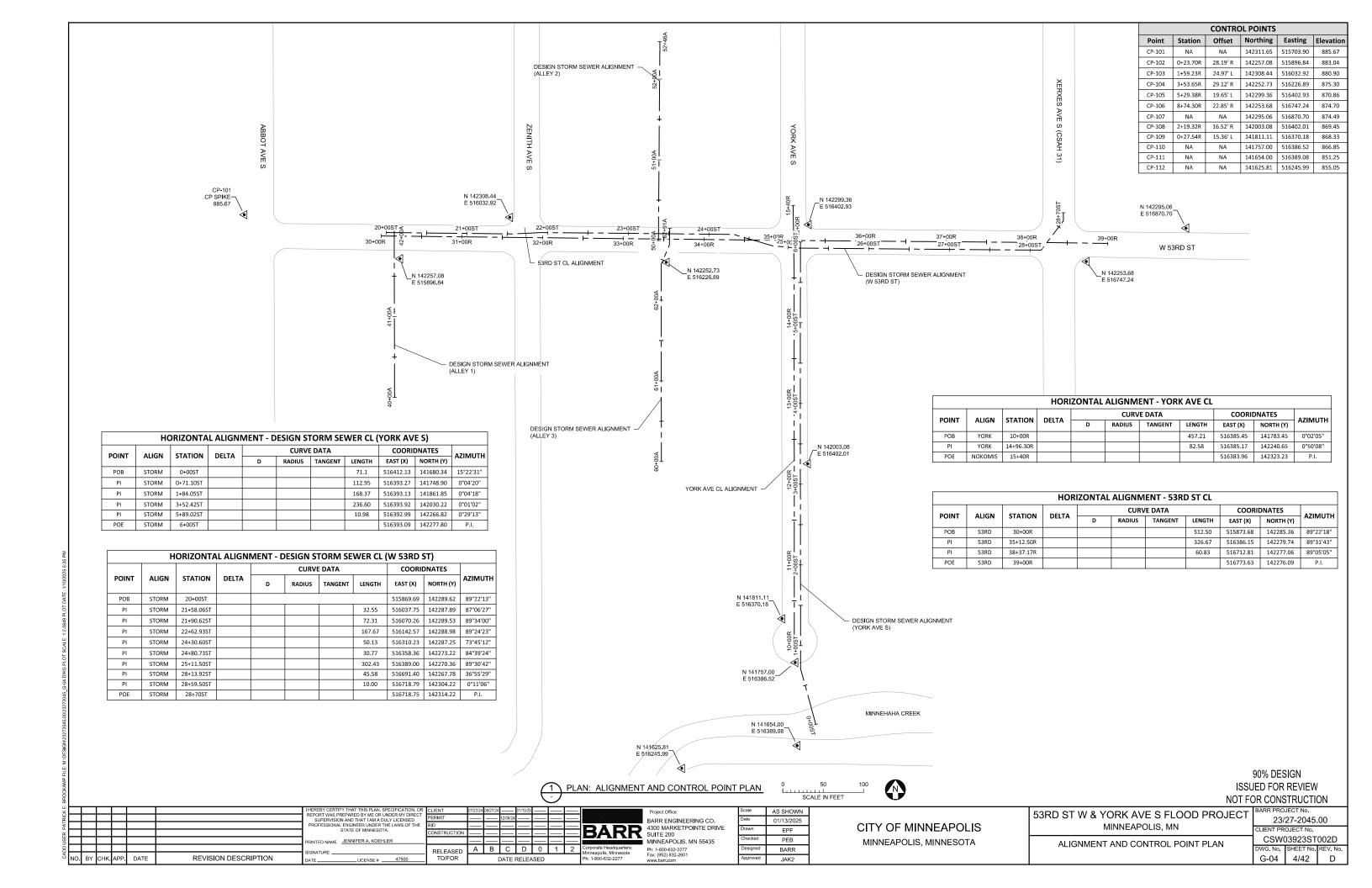
01/13/2025 EPF PEB BARR

AS SHOWN

CITY OF MINNEAPOLIS MINNEAPOLIS, MINNESOTA

MINNEAPOLIS, MN

23/27-2045.00 CSW03923ST002D WG. No. SHEET No. REV. No. G-03 3/42



1.0 GENERAL CONSTRUCTION ACTIVITY INFORMATION:

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.

THE PROJECT IS LOCATED IN THE CITY OF MINNEAPOLIS, HENNEPIN COUNTY, MINNESOTA. PROPOSED CONSTRUCTION ACTIVITIES WILL TAKE PLACE ALONG YORK AVE S FROM THE INTERSECTION OF W 53RD ST TO MINNEHAHA CREEK AND ALONG W 53RD ST FROM ABBOTT AVE S TO XERXES AVE S. THE APPROXIMATE CENTROID OF THE PROJECT HAS A LATITUDE OF 44,907047 AND A

THE PROJECT WORK INVOLVES THE REMOVAL AND REPLACEMENT OF STORM SEWER PIPE AND STRUCTURES, ALONG YORK AVENUE S FROM WEST 53RD STREET TO THE OUTLET AT MINNEHAHA CREEK AND ALONG W 53RD ST FROM ABBOTT AVE S TO XERXES AVE S. CONSTRUCTION WILL CONSIST OF THE REMOVAL OF EXISTING CONCRETE PAVEMENT, CURB AND GUTTER, BITUMINOUS WALK, STORM SEWER STRUCTURES & PIPE, AND THE INSTALLATION OF STORM SEWER PIPE, MANHOLES, & CATCH BASINS, CONCRETE PAVEMENT, PEDESTRIAN RAMPS, AND BITUMINOUS PAVEMENT. THE PROJECT IS NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO MINIMIZE SEDIMENT FROM BEING TRANSPORTED TO MINNEHAHA CREEK, AN EPA - APPROVED IMPAIRED WATER. REFER TO PROJECT DRAWINGS FOR FURTHER DETAILS. (CSW PERMIT PART III.A.1)

- 1.1 PROJECT SIZE AND CUMULATIVE IMPERVIOUS SURFACE:

 THE ANTICIPATED AREA OF DISTURBANCE IS APPROXIMATELY 1.38 ACRES.
- THE TOTAL AREA OF PRE-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 1.00 ACRES
- THE TOTAL AREA OF POST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0.98 ACRES.
- THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY -0.02 ACRES.

ANTICIPATED END DATE: JUNE 2026

1.3 CONTACT INFORMATION:

ORGANIZATION	CONTACT NAME	ADDRESS	EMAIL	PHONE
CITY OF MINNEAPOLIS	ROSE STENGLEIN	250 S 45TH ST, ROOM 300 PSC, MINNEAPOLIS, MN 55415	ROSE.STENGLEIN@MINNEAPOLISMN.GOV	(612) 673-3584
MINNESOTA DEPARTMENT OF NATURAL RESOURCES	PETER LEETE	500 LAFAYETTE RD, ST. PAUL, MN 55155	N/A	(651) 291-6157
MINNEHAHA CREEK WATERSHED DISTRICT	VERONICA SANNES	15320 MINNETONKA BLVD, MINNETONKA, MN 55435	VSANNES@MINNEHAHACREEK.ORG	(952) 641-4580
MPCA (HOTLINE)	N/A	520 LAFAYETTE RD N, ST. PAUL, MN 55155-4194	N/A	(651) 757-2119
MINNEAPOLIS PARK AND RECREATION BOARD	MADELINE HUDEK	2117 WEST RIVER ROAD N, MINNEAPOLIS, MN 55441	MHUDEK@MINNEAPOLISPARKS.ORG	(612) 283-9496
BARR ENGINEERING	PATRICK BROCKAMP	4300 MARKET POINTE DR, SUITE 200, MINNEAPOLIS, MN 55435	PBROCKAMP@BARR.COM	(952) 842-3593
CONTRACTOR (CITY OF MINNEAPOLIS)	WILLIAM SHUTTE	1901 E 26TH ST, MINNEAPOLIS, MN 55404-4028	WILLIAM.SHUTTE@MINNEAPOLISMN.GOV	(612) 673-3606

DPERATOR / GENERAL CONTRACTOR (WILL OVERSEE IMPLEMENTATION OF THE SWPPP): CITY OF MINNEAPOLIS MAILING ADDRESS: 1901 E 26TH ST, MINNEAPOLIS, MN 55404-4028

CONTACT PERSON: WILL SHUTTE

TITLE: SENIOR PROFESSIONAL ENGINEER

EMAIL ADDRESS: WILLIAM.SHUTTE@MINNEAPOLISMN.GOV

2.0 RECEIVING WATERS

PHONE NUMBER: 612-673-3606

WATERS WITHIN ONE MILE (NEAREST STRAIGHT LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE

NAME OF WATER BODY	TYPE (1)	WATER BODY ID (2)	SPECIAL WATER? (3)	IMPAIRED WATER? (3)	PUBLIC WATER WITH WORK IN WATER RESTRICTIONS?
MININELIALIA ODEEK	ODEEK	07040000 500	NO	VEC	VEC

- TYPE EXAMPLES: DITCH, POND, WETLAND, CALCAREOUS FEN, LAKE, STREAM, RIVER
- 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
- REFER TO CSW PERMIT SECTION 23. IMPAIRED WATER FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS (NUTRIENT EUTROPHICATION BIOLOGICAL INDICATORS), TURBIDITY, TOTAL SUSPENDED SÓLIDS (TSS), DISSÓLVED OXYGEN, OR AQUATIC BIOTA (FISH BIOASSESSMENT, AQUATIC PLANT BIOASSESSMENT, AND AQUATIC MACROINVERTEBRATE

SPECIAL AND IMPAIRED WATERS: THE MPCA'S SPECIAL AND IMPAIRED WATERS SEARCH TOOL WAS USED TO LOCATE SPECIAL AND IMPAIRED WATERS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF THE PROJECT SITE. MINNEHAHA CREEK HAS AN EPA-APPROVED IMPAIRMENT FOR AQUATIC LIFE: AQUATIC RECREATION, 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)

THIS PROJECT DOES NOT INCLUDE ANY ADDITIONAL BMPS OR OTHER SPECIFIC CONSTRUCTION RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL). (CSW PERMIT ITEM 5.19)

2.2 PUBLIC WATERS WITH WORK IN WATER RESTRICTIONS: MINNEHAHA CREEK IS IDENTIFIED BY THE DNR AS A PUBLIC WATER. WORK IS RESTRICTED FOR NON-TROUT STREAMS IN MINNEAPOLIS MINNESOTA BETWEEN MARCH 15 - JUNE 15. DURING THE RESPECTIVE RESTRICTION PERIODS, ALL EXPOSED SOILS WITHIN 200 FEET OF THE WATER'S EDGE WILL HAVE EROSION PREVENTION STABILIZATION ACTIVITIES INITIATED IMMEDIATELY AFTER CONSTRUCTION ACTIVITY HAS CEASED (AND COMPLETED WITHIN 24 HOURS). (CSW PERMIT ITEM 5.11)

2.3 WETLAND IMPACTS: THIS PROJECT WILL NOT REQUIRE EXCAVATION AND FILL IN WETLANDS AS PART OF PROJECT CONSTRUCTION. (CSW PERMIT ITEMS 2.4 AND 2.10, AND SECTION 22)

2.4 ENVIRONMENTAL REVIEW AND OTHER REQUIRED REVIEWS: NO FEDERAL, STATE, OR LOCAL ENVIRONMENTAL REVIEWS OR ASSOCIATED ENVIRONMENTAL APPROVALS FOR THE PROJECT REQUIRE STORMWATER MITIGATION MEASURE. (CSW PERMIT ITEMS

2.5 KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS: THIS PROJECT DOES NOT INCLUDE ANY KARST OR DRINKING WATER SUPPLY MANAGEMENT AREAS. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)

2.4 ENVIRONMENTAL REVIEW AND OTHER REQUIRED REVIEWS: NO FEDERAL, STATE, OR LOCAL ENVIRONMENTAL REVIEWS OR ASSOCIATED ENVIRONMENTAL APPROVALS FOR THE PROJECT REQUIRE STORMWATER MITIGATION MEASURE (CSW PERMIT ITEMS 2.8, 2.9, AND 5.16).

2.5 KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS: THIS PROJECT DOES NOT INCLUDE ANY KARST OR DRINKING WATER SUPPLY MANAGEMENT AREAS. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)

3.0 PROJECT PLANS AND SPECIFICATIONS:

REQUIRED	FEATURE	SHEET NUMBER
PRO	ECT LOCATION AND CONSTRUCTION LIMITS	G-01, C-01
 EXIS 	FING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES, DIRECTIONS	
OF FI	OW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR	
ENTE	RING A SURFACE WATER	C-13 THRU C-19
 SOIL 	TYPES AT THE SITE	G-06
 LOCA 	TIONS OF IMPERVIOUS SURFACES	C-02 THRU C-07
 LOCA 	TIONS OF AREAS NOT BE BE DISTURBED (E.G., BUFFER ZONES, WETLANDS, ETC.)	C-02 THRU C-07
 LOCA 	TIONS OF AREAS OF STEEP SLOPES	C-02 THRU C-07
 LOCA 	TIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION	
OF E	XPOSED SOILS	C-13 THRU C-19
 PORT 	IONS OF THE SITE THAT DRAIN TO A PUBLIC WATER WITH DNR WORK IN WATER	
REST	RICTIONS FOR FISH SPAWNING TIMEFRAMES	C-02, C-13
 LOCA 	TIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL	
BMPS	S AS REQUIRED IN PERMIT SECTIONS 8 THROUGH 10 AND 14 THROUGH 19	C-02 THRU C-07
 BUFF 	ER ZONES AS REQUIRED IN PERMIT ITEMS 9.17 AND 23.11	NA
 LOCA 	TIONS OF POTENTIAL POLLUTION-GENERATING ACTIVITIES IDENTIFIED IN PERMIT	
SECT	ION 12	NA
 STAN 	DARD DETAIL PLATES FOR EROSION AND SEDIMENT CONTROL BMPS TO BE	
INST	ALLED AT THE SITE	G-03

4.0 BEST MANAGEMENT PRACTICES (BMPS)

- BEFORE LAND DISTURBING ACTIVITIES BEGIN, THE LIMITS OF THE AREAS TO BE DISTURBED DURING CONSTRUCTION WILL BE DELINEATED WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.
- TEMPORARY STABILIZATION OF SOILS AND SOIL STOCKPILES: (CSW PERMIT ITEMS 8.4, 8.5, AND 23.9) AREAS OF EXPOSED SOIL WILL BE STABILIZED WITH EROSION CONTROL BLANKET, PRESERVATION OF
- MATURE VEGETATION, MULCH OR EQUIVALENT MEASURES.
 b. IF PRESENT, SOIL STOCKPILES WILL BE STABILIZED WITH MULCH (SUCH AS STRAW MULCH, EROSION CONTROL BLANKETS OR EQUIVALENT MEASURES.
- TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS, AND SIMILAR SURFACES ARE EXEMPT FROM THESE STABILIZATION REQUIREMENTS.
- 2. STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS: (CSW PERMIT ITEMS 8.6 THROUGH 8.8)
 - a. IF SOILS WITHIN EXISTING STORMWATER DITCHES OR SWALES ARE DISTURBED, THEY WILL BE STABILIZED WITH CHANNEL EROSION CONTROL BLANKET, RIPRAP, TURF REINFORCEMENT MAT OR EQUIVALENT MEASURES.
 - MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION PREVENTION PRACTICES WILL NOT BE USED TO STABILIZE ANY PART OF AN EXISTING STORMWATER DITCH OR SWALE WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.
 - 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 STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE
 - d. STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES WILL BE COMPLETED WITHIN 7 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED.
- ENERGY DISSIPATION AT PIPE OUTLETS: ENERGY DISSIPATION AT PIPE OUTLETS WILL BE PROVIDED WITH ONE OR MORE OF THE FOLLOW METHODS: RIP RAP, SPLASH PADS, GABIONS, OR EQUIVALENT MEASURES. (CSW PERMIT ITEM 8.9)
- 4. EROSION PREVENTION IMPLEMENTATION TIMELINES: (CSW PERMIT ITEMS 5.4, 8.4 THROUGH 8.6, AND 23.9) a. STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
 - b. IF THE EXPOSED SOIL AREAS DRAIN TO A DISCHARGE POINT THAT IS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF A SPECIAL OR IMPAIRED WATER (SEE SECTION 2.0), STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION 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: PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION, APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA, OR SEEDING OR PLANTING THE EXPOSED AREA.
- 5. 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
 - a. SOIL DISTURBANCE WILL BE MINIMIZED WHEREVER POSSIBLE TO AID IN EROSION PREVENTION.
 - b. EXISTING VEGETATION WILL BE PRESERVED WHEREVER POSSIBLE TO LIMIT EXPOSED SOIL AND THUS WILL SERVE AS NATURAL VEGETATIVE BUFFERS.
 - EXPOSED SOIL ON STEEP SLOPES (≤3H:1V) WILL BE STABILIZED USING EROSION CONTROL BLANKETS AND SEEDING
 - d. HORIZONTAL SLOPE GRADING WILL BE UTILIZED TO MINIMIZE EROSION POTENTIAL.
 - TERRACING WILL BE USED TO MINIMIZED EROSION POTENTIAL

4.2 SEDIMENT CONTROL PRACTICES:

1. DOWNGRADIENT PERIMETER CONTROLS: (CSW PERMIT ITEMS 9.2 THROUGH 9.6)

SEDIMENT CONTROL PRACTICES WILL BE ESTABLISHED ON ALL DOWNGRADIENT PERIMETERS AND LOCATED UPGRADIENT OF ANY BUFFER ZONES. PERIMETER SEDIMENT CONTROLS WILL INCLUDE: SILT FENCE, SEDIMENT CONTROL LOGS / BIOROLLS (FILLED WITH COMPOST, WOOD CHIPS, ROCK, ETC.), VEGETATIVE BUFFERS (RETAIN EXISTING VEGETATION WHERE POSSIBLE), OR EQUIVALENT MEASURES

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

- 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. SOIL STOCKPILE PERIMETER CONTROLS: TEMPORARY SOIL STOCKPILES WILL BE SURROUNDED BY: DOUBLE ROWS OF SILT FENCE, SEDIMENT CONTROL LOGS OR EQUIVALENT MEASURES, AND SHALL NOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS. (CSW PERMIT ITEMS 9.9 AND 9.10)
- 3. STORM DRAIN INLET PROTECTION: (CSW PERMIT ITEMS 9.7 AND 9.8)
 - a. INLET PROTECTION BMPS WILL BE INSTALLED AROUND ALL STORM DRAIN INLETS DOWNGRADIENT OF CONSTRUCTION ACTIVITIES.
 - b. STORM DRAIN INLETS WILL BE PROTECTED UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
 - INLET PROTECTION BMPS WILL BE: SEDIMENT CONTROL LOG, FILTER SACKS, OR EQUIVALENT MEASURES
- VEHICLE TRACKING BMPS: (CSW PERMIT ITEMS 9.11 AND 9.12)
 a. VEHICLE TRACKING BMPS WILL BE INSTALLED TO MINIMIZE THE TRACKING OUT OF SEDIMENT FROM THE CONSTRUCTION AREA AND WILL INCLUDE: ROCK PADS AND MUD MATS OR AN EQUIVALENT
 - b. 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: IF NECESSARY, ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERMS) 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 PRESERVED WHERE POSSIBLE. (CSW PERMIT ITEMS 5.24, 9.14, AND 9.15)
- PRIORITIZATION OF ONSITE INFILTRATION AND SEDIMENT REMOVAL: (CSW PERMIT ITEM 9.16)
- PRIOR TO OFFSITE DISCHARGE, INFILTRATION AND SEDIMENT REMOVAL WILL BE IMPLEMENTED ONSITE WHERE POSSIBLE.
- 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
 - a. A 50-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND. IF A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND 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 WILL BE PROVIDED.
 - A 100-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A SPECIAL OR IMPAIRED SURFACE WATER. IF A SPECIAL OR IMPAIRED SURFACE WATER IS LOCATED WITHIN 100 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE
 - REDUNDANT PERIMETER CONTROLS WILL BE INSTALLED AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE
- USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) IS NOT ANTICIPATED AS PART OF THE PROJECT. (CSW PERMIT ITEMS 5.22 AND 9.18)
- 10. THE PROJECT WILL NOT INCLUDE 10 OR MORE ACRES OF DISTURBED SOIL DRAINING TO A COMMON LOCATION OR 5 OR MORE ACRES DRAINING TO A COMMONI OCATION WITHIN 1 MILE OR A SPECIAL OR 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)

 1. THE FOLLOWING WILL BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER DURING
- DEWATERING OR BASIN DRAINING: TEMPORARY OR PERMANENT SEDIMENT BASINS OR EQUIVALENT MEASURES.
- THE FOLLOWING WILL BE USED TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS DURING DEWATERING OR BASIN DRAINING: RIPRAP OR EQUIVALENT MEASURES.
- FILTERS FOR BACKWASH WATER WILL BE MANAGED ON THE SITE OR PROPERLY DISPOSED OF BY INCORPORATING BACKWASH WATER INTO TEMPORARY OR PERMANENT SEDIMENT BASINS OR EQUIVALENT

 $\underline{4.4}$ BMP DESIGN FACTORS: THE FOLLOWING BMP DESIGN FACTORS HAVE BEEN CONSIDERED IN DESIGNING THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPS:

- 1. 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.
- 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 POINTS.
- 4. RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT.

90% DESIGN

(SEE PAGE 2 OF 2)

ISSUED FOR REVIEW NOT FOR CONSTRUCTION

BARR PROJECT NO AS SHOWN EPORT WAS PREPARED BY ME OR UNDER MY DIREC SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER LINDER THE LAWS OF TH 53RD ST W & YORK AVE S FLOOD PROJECT 01/13/2025 23/27-2045.00 BARR ENGINEERING CC MINNEAPOLIS, MN CITY OF MINNEAPOLIS BARR 4300 MARKETPOINTE DRIVE EPF STATE OF MINNESOTA SUITE 200 PEB CSW03923ST002D MINNEAPOLIS, MN 55435 MINNEAPOLIS, MINNESOTA INTED NAME JENNIFER A. KOEHLER STORMWATER POLLUTION PREVENTION PLAN WG. No. SHEET No. REV. No A B C D 0 1 2 BARR RELEASED REVISION DESCRIPTION G-05 5/42 _LICENSE # _____ 47500

5.0 PERMANENT STORMWATER MANAGEMENT SYSTEM:

A PERMANENT STORMWATER MANAGEMENT SYSTEM IS REQUIRED IF THE PROJECT RESULTS IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES OR RESULTS IN A NET INCREASE OF ONE OR MORE ACRES OF CUMMULATIVE NEW IMPERVIOUS SURFACES IN TOTAL OR IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT. (CSW PERMIT

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

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

<u>5.3</u> 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

TRAINED INDIVIDUAL ERIC FITZGERALD	RESPONSIBILITY PREPARATION OF THE SWPPP	TRAINING ENTITY*_ UNIVERSITY OF MINNESOTA	TRAINING DATE MAY 2024
TBD	OVERSIGHT OF SWPPP IMPLEMENTA- TION, REVISION, AND AMMENDMENT	TBD	TBD
TBD	PERFORMANCE OF SWPPP INSPECTIONS	TBD	TBD
TBD	PERFORMANCE OR SUPERVISION OF INSTALLATION, MAINTENANCE, AND REPAIR OF BMPS	TBD	TBD

*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

6.3 INSPECTION REQUIREMENTS: EACH CONSTRUCTION STORMWATER SITE INSPECTION WILL INCLUDE INSPECTION

- OF THE FOLLOWING AREAS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

 ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT
- SURFACE WATERS FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION
 CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING
- STREETS AND OTHER AREAS ADJACENT TO THE PROJECT FOR EVIDENCE OF OFF SITE ACCUMULATIONS OF

6.4 MAINTENANCE REQUIREMENTS: MAINTENANCE OF THE FOLLOWING AREAS AND BMPS WILL 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.

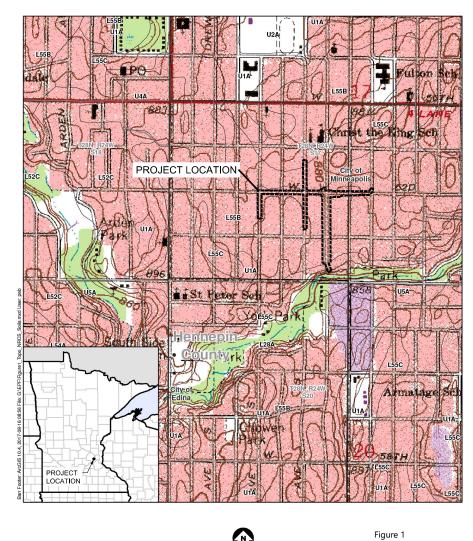
- ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WILL BE RECORDED IN WRITING WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS WILL BE RETAINED WITH THE SWPPP, RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY WILL INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE 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 **EACH EVENT**
- a. IF ANY DISCHARGE IS OBSERVED DURING THE INSPECTION. THE LOCATION AND APPEARANCE OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS) WILL BE DOCUMENTED AND A PHOTOGRAPH WILL BE TAKEN
- 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
 - 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 POLLUTANTS 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 WILL 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 WILL 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 NOTICE OF TERMINATION.

7.0 POLLUTION PREVENTION MEASURES:

- ANY CONSTRUCTION PRODUCTS AND LANDSCAPE MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORÁGE 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) WILL BE STORED AND DISPOSED OF IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7045, INCLUDING SECONDARY CONTAINMENT (AS APPLICABLE). HAZARDOUS MATERIALS WILL 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 WILL 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)
- 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
- b. 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 DRIP 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 NOT RESULT IN CONCRETE OR OTHER WASHOUT ACTIVITIES. NO CONCRETE WASHOUT WILL BE ALLOWED ON SITE. (CSW PERMIT ITEMS 2.3 AND 12.9)

- 1. 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: SEEDING, MULCHING, AND EROSION CONTROL BLANKETS. (CSW PERMIT ITEM 5.17)
- 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.

WITHIN 30 DAYS AFTER THE TERMINATION CONDITIONS ARE COMPLETE, A NOTICE OF TERMINATION (NOT) FORM WILL BE SUBMITTED TO THE MPCA



— County State-Aid Highway Municipal State-Aid Street Municipal Street Survey Area Status Map Statewide SSURGO Data County Boundary

10.000 SCALE IN FEET

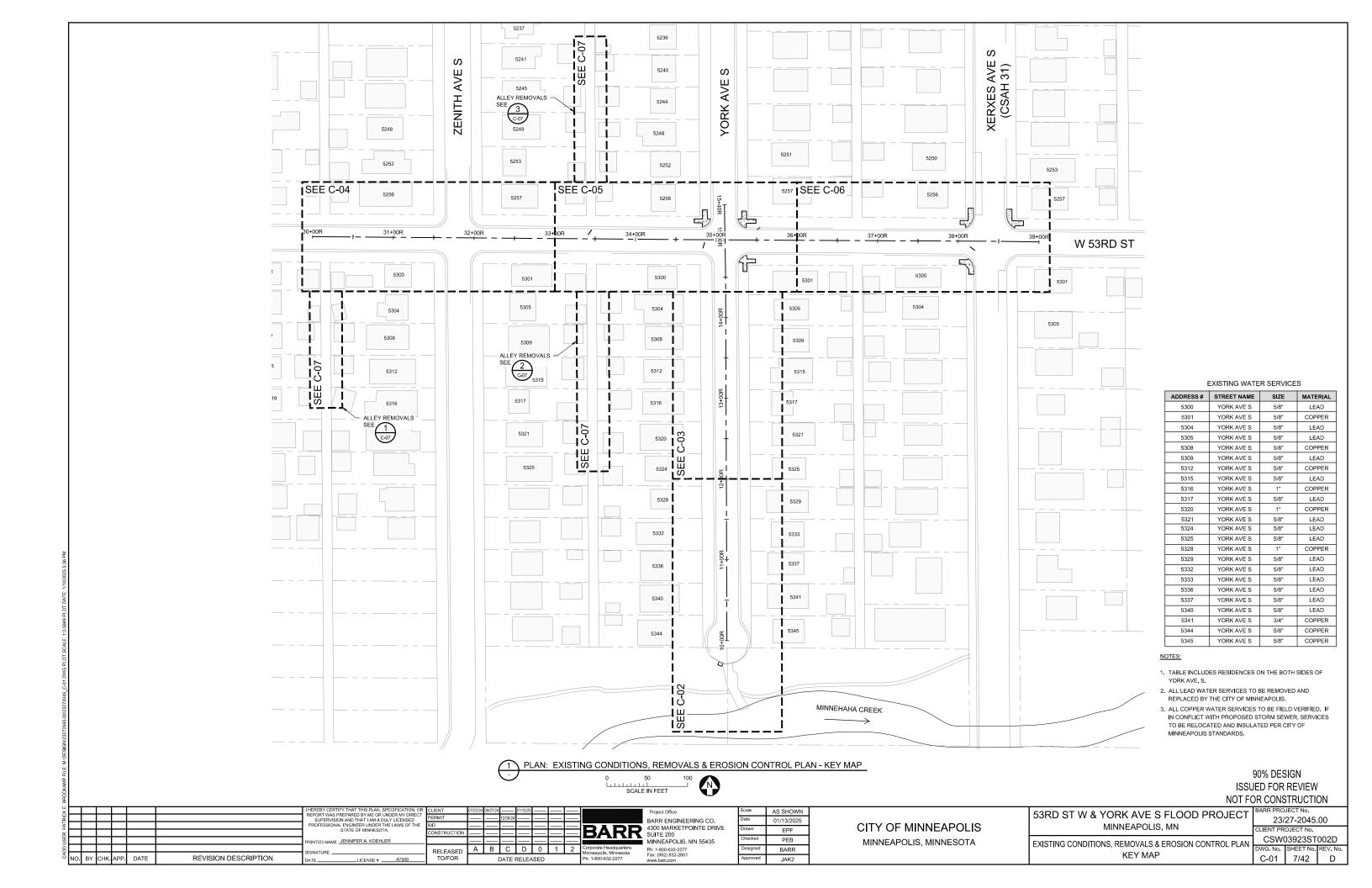
TOPOGRAPHIC MAP WITH SURFACE WATERS AND SOIL TYPES Stormwater Pollution Prevention Plan Hennepin County, Minnesota

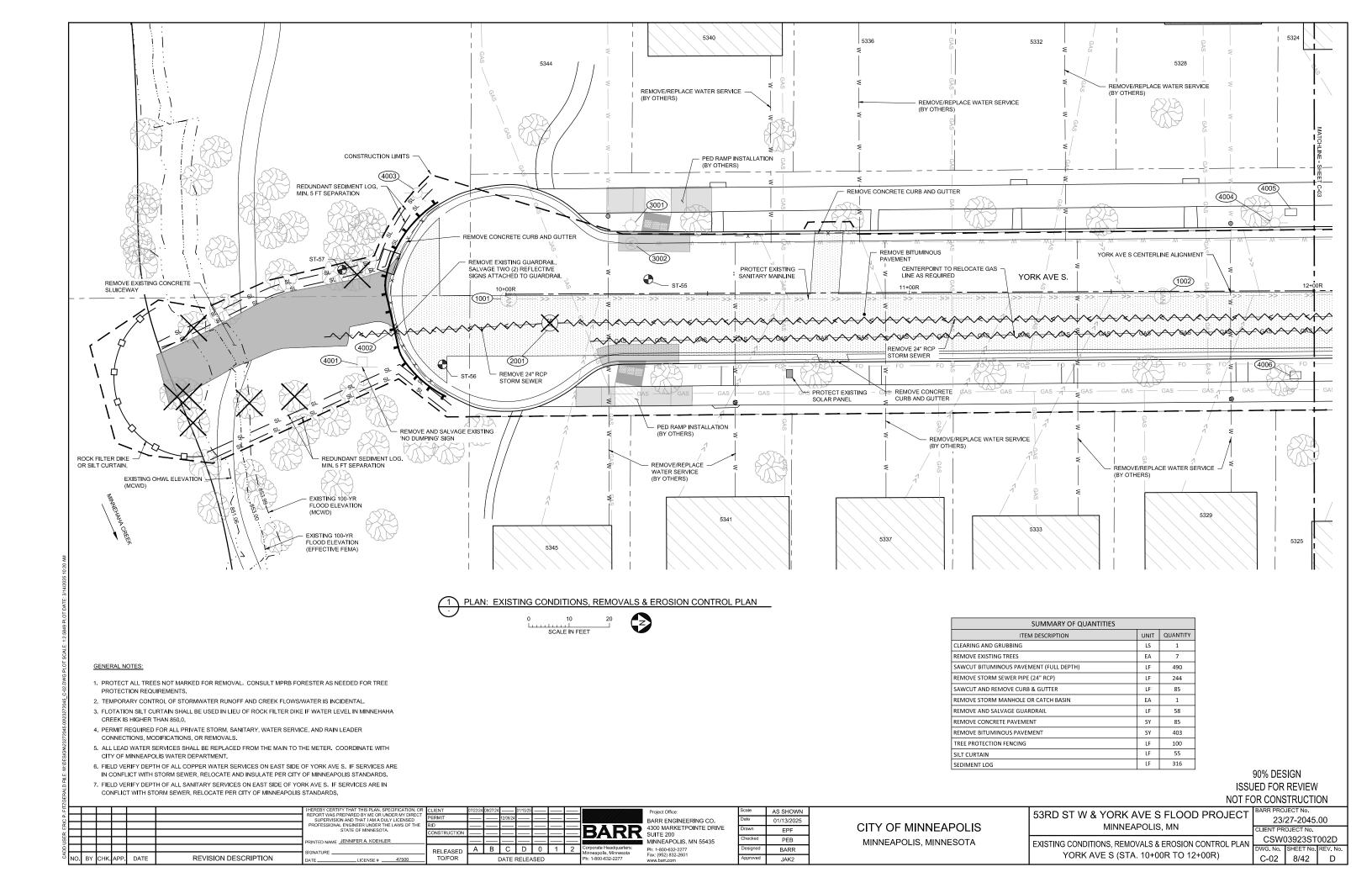
6.5 RECORDKEEPING REQUIREMENTS: (CSW PERMIT ITEMS 11.11 AND 24.5 AND SECTIONS 6 AND 20)

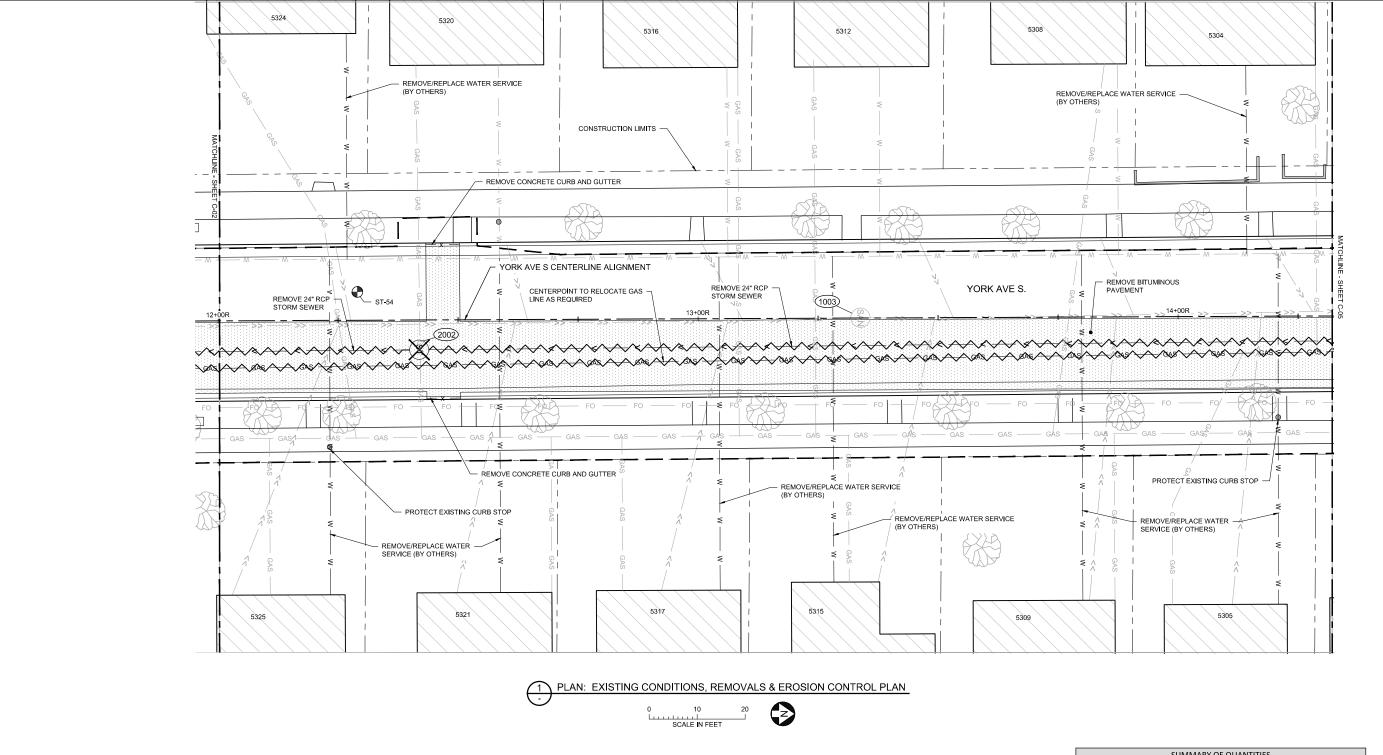
8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS:

90% DESIGN ISSUED FOR REVIEW NOT FOR CONSTRUCTION

ARR PROJECT N AS SHOWN 53RD ST W & YORK AVE S FLOOD PROJECT PORT WAS PREPARED BY ME OR UNDER MY DIREC SUPERVISION AND THAT I AM A DULY LICENSED ROFESSIONAL ENGINEER LINDER THE LAWS OF TH 23/27-2045.00 BARR ENGINEERING CO 01/13/2025 MINNEAPOLIS, MN CITY OF MINNEAPOLIS 4300 MARKETPOINTE DRIVE BARR STATE OF MINNESOTA EPF SUITE 200 PEB CSW03923ST002D NTED NAME JENNIFER A. KOEHLER MINNEAPOLIS, MINNESOTA MINNEAPOLIS, MN 55435 STORMWATER POLLUTION PREVENTION PLAN WG. No. SHEET No. REV. No. BARR RELEASED REVISION DESCRIPTION 6/42 LICENSE # __ 47500







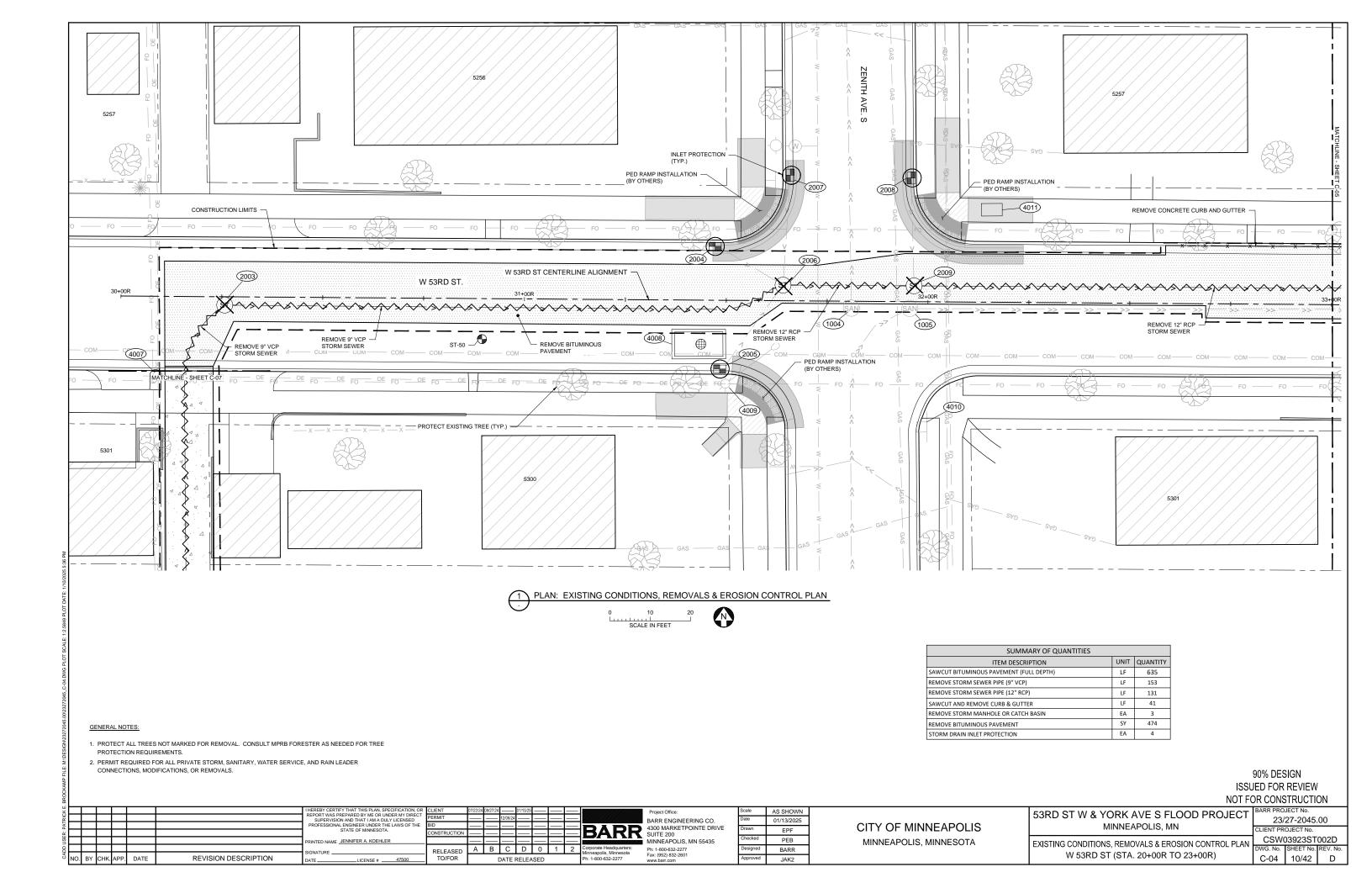
GENERAL NOTES:

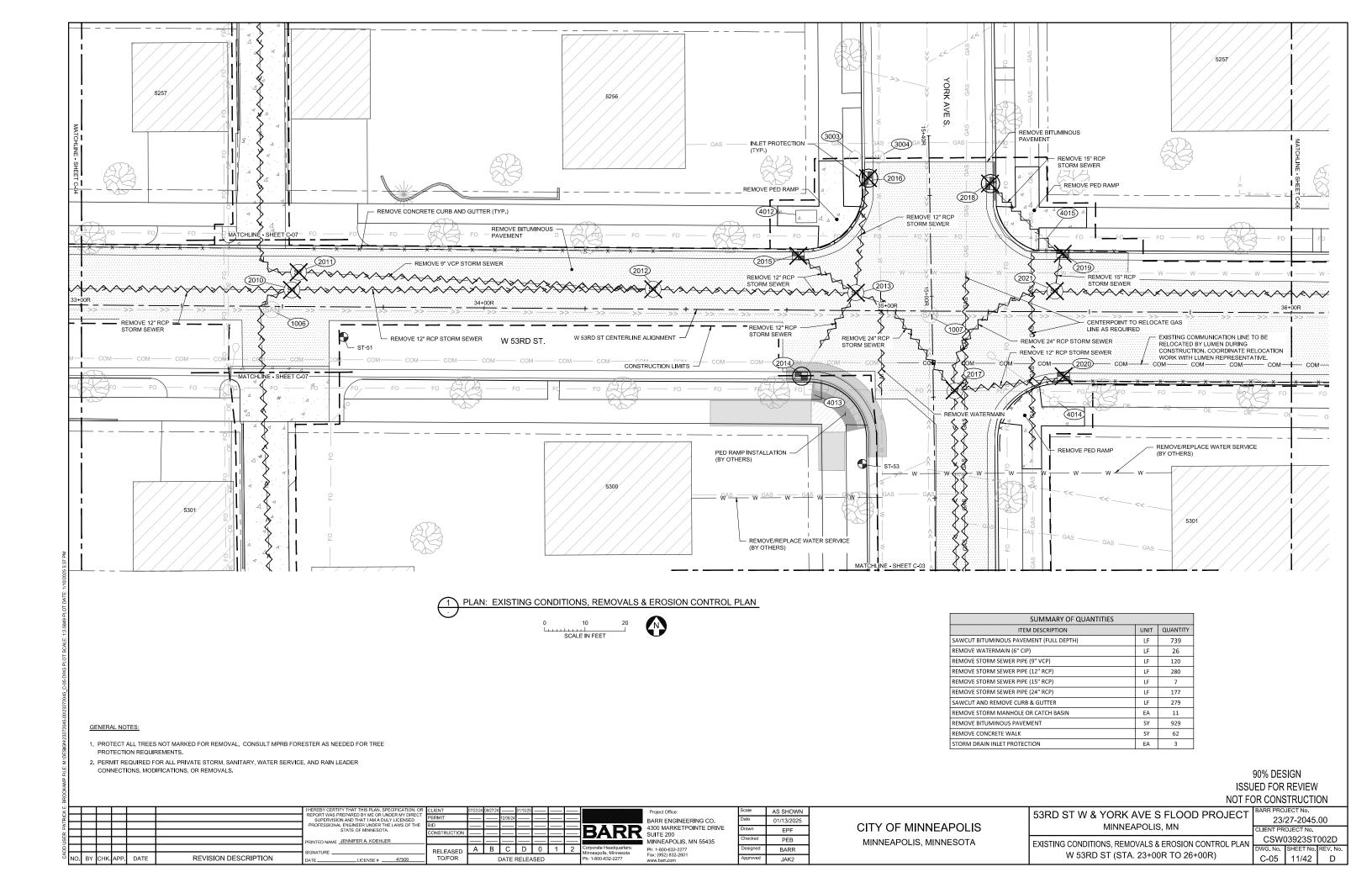
1. PROTECT ALL TREES NOT MARKED FOR REMOVAL. CONSULT MPRB FORESTER AS NEEDED FOR TREE PROTECTION REQUIREMENTS.

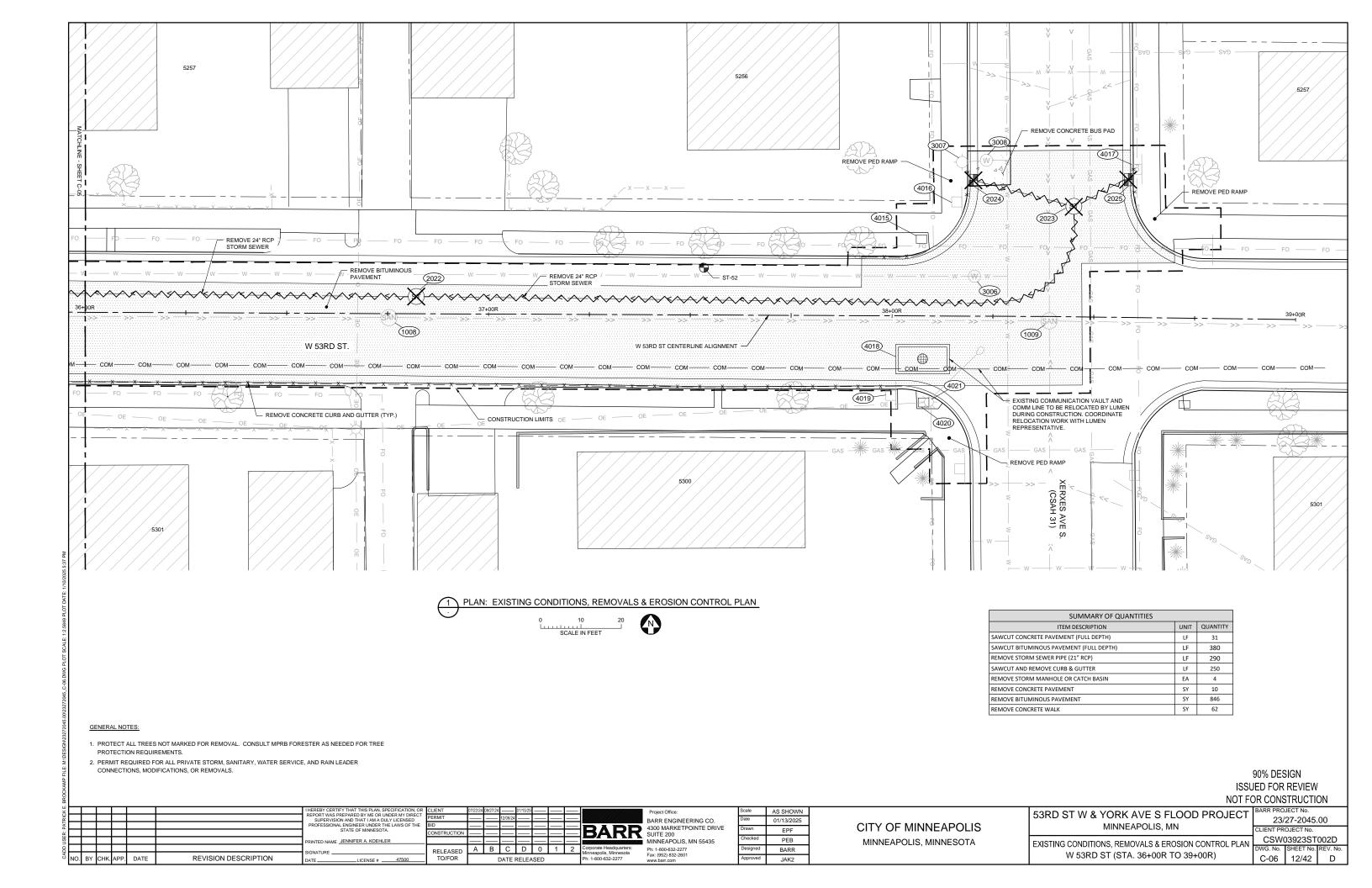
- 2. TEMPORARY CONTROL OF STORMWATER RUNOFF AND CREEK FLOWS/WATER IS INCIDENTAL.
- FLOTATION SILT CURTAIN SHALL BE USED IN LIEU OF ROCK FILTER DIKE IF WATER LEVEL IN MINNEHAHA CREEK IS HIGHER THAN 850.0.
- 4. PERMIT REQUIRED FOR ALL PRIVATE STORM, SANITARY, WATER SERVICE, AND RAIN LEADER CONNECTIONS, MODIFICATIONS, OR REMOVALS.
- 5. ALL LEAD WATER SERVICES SHALL BE REPLACED FROM THE MAIN TO THE METER. COORDINATE WITH CITY OF MINNEAPOLIS WATER DEPARTMENT.
- 6. FIELD VERIFY DEPTH OF ALL COPPER WATER SERVICES ON EAST SIDE OF YORK AVE S. IF SERVICES ARE IN CONFLICT WITH STORM SEWER, RELOCATE AND INSULATE PER CITY OF MINNEAPOLIS STANDARDS.
- FIELD VERIFY DEPTH OF ALL SANITARY SERVICES ON EAST SIDE OF YORK AVE S. IF SERVICES ARE IN CONFLICT WITH STORM SEWER, RELOCATE PER CITY OF MINNEAPOLIS STANDARDS.

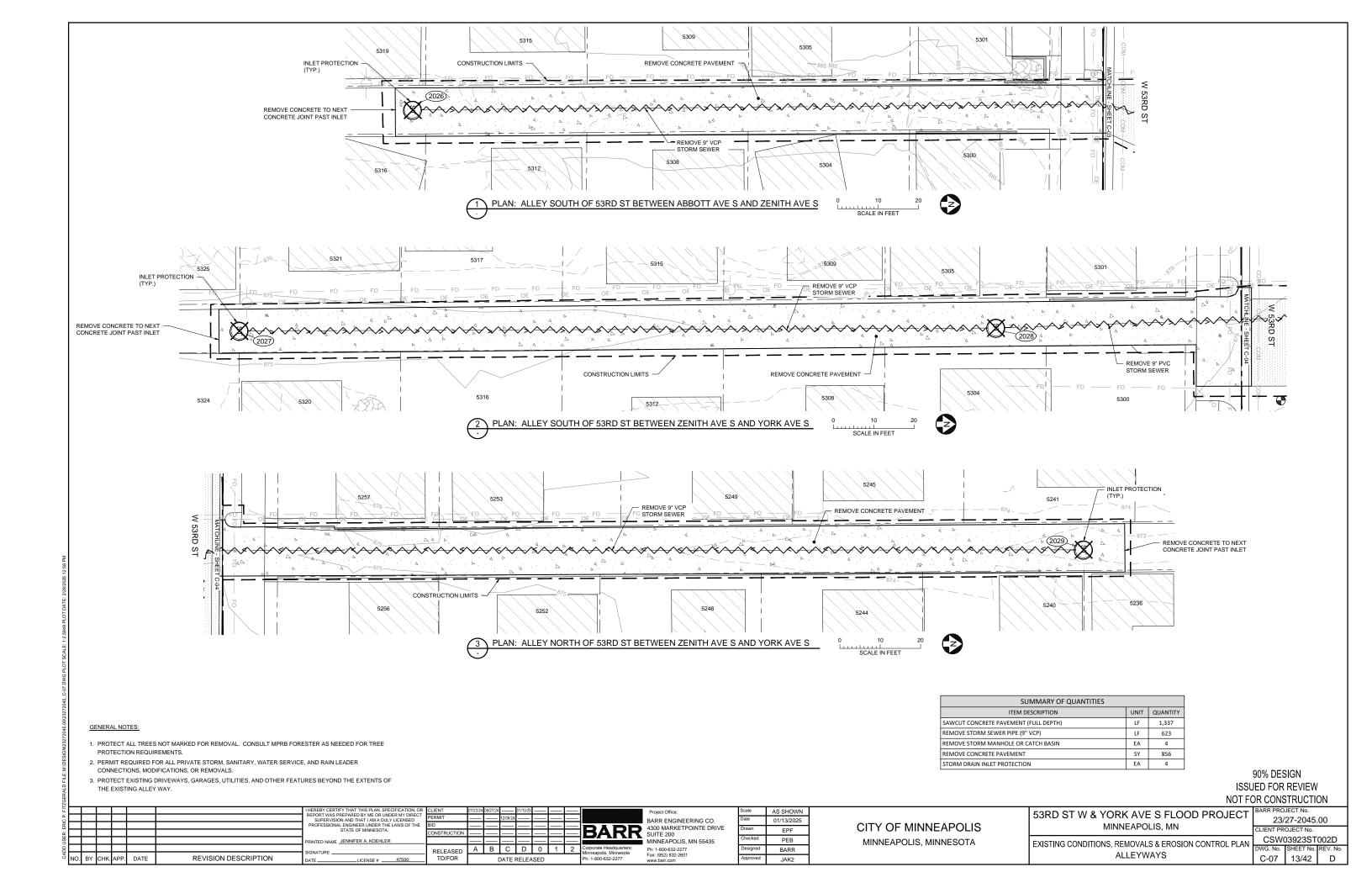
SUMMARY OF QUANTITIES				
ITEM DESCRIPTION	UNIT	QUANTITY		
SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)	LF	486		
REMOVE STORM SEWER PIPE (24" RCP)	LF	228		
SAWCUT AND REMOVE CURB & GUTTER	LF	15		
REMOVE STORM MANHOLE OR CATCH BASIN	EA	1		
REMOVE BITUMINOUS PAVEMENT	SY	421		

5		\bot			I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR	CLIENT	07/22/24 09/27/24 01/13/25		Project Office:	Scale	AS SHOWN		53RD ST W & YORK AVE S FLOOD PROJECT	BARR PROJE	ECT No.	
ă		-			SUPERVISION AND THAT I AM A DULY LICENSED	PERMIT	12/06/24		BARR ENGINEERING CO.	Date	01/13/2025]		23/2	27-2045.0	ე0
ď					PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	BID		DADE	4300 MARKETPOINTE DRIVE	Drawn	FPF	CITY OF MINNEAPOLIS	MINNEAPOLIS, MN	CLIENT PRO	JECT No.	
ġ	_	+				CONSTRUCTION		DAKI	SUITE 200	Checked		-		CSMO	3923ST0	าบวบ
9	_	+ +			PRINTED NAME JENNIFER A. KOEHLER	-	 	Comparate Headquarters	MINNEAPOLIS, MN 55435	5	PEB	MINNEAPOLIS, MINNESOTA	EXISTING CONDITIONS, REMOVALS & EROSION CONTROL PLAN			
Š		+ +			SIGNATURE	RELEASED	A B C D 0 1 2	Minneapolis, Minnesota	Ph: 1-800-632-2277 Fax: (952) 832-2601	Designed	BARR		YORK AVE S (STA. 12+00R TO 15+00R)		SHEET No. F	REV. No.
Ċ	NO. BY	CHK. AI	PP. DATE	REVISION DESCRIPTION	DATELICENSE#47500	TO/FOR	DATE RELEASED	Ph: 1-800-632-2277	www.barr.com	Approved	JAK2		TORK AVE 5 (STA. 12+00K TO 15+00K)	C-03	9/42	D









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B E R	G N M	STATION	OFF	SET	E	U S T	O V E	O C A	A R K
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1001	YORK	0+00.68R		1.15	SAM		1		RCA
1002	YORK	1+62.72R		0.98	SAM		1		RCA
2001	YORK	0+10.91R		7.21	SDM		1		RCA
3001	YORK	0+30.96R	16.85		HYD				LEAVE
3002	YORK	0+31.17R	12.54		MWT				LEAVE
4001	YORK	NA			SGN				N.I.P.
4002	YORK	NA			SGN				N.I.P.
4003	YORK	NA			PPL				N.I.P.
4004	YORK	1+90.70R	17.11		PPL				N.I.P.
4005	YORK	1+94.77R	19.83		MTL				LEAVE
4006	YORK	1+95.71R		20.59	MTL				N.I.P.
			C-03: S	A 2+00R 1	O 4+30R				
1003	YORK	3+33.90R	0.80		SAM				LEAVE
2002	YORK	2+41.86R		5.71	SDM		1		RCA
			C-04: S	TA 0+00R 1	O 3+00R				
1004	53RD	1+81.03R		1.73	SAM				LEAVE
1005	53RD	1+95.35R		1.79	SAM				LEAVE
2003	53RD	0+25.79R		2.21	SDM				RCA
2004	53RD	1+47.11R	13.33		MCB				LEAVE
2005	53RD	1+48.49R		17.19	MCB				LEAVE
2006	53RD	1+64.00R	3.99		SDM		1		RCA
2007	53RD	1+65.77R	31.08		MCB				LEAVE
2008	53RD	1+95.53R	30.52		MCB				LEAVE
2009	53RD	1+96.47R	3.89		SDM		1		RCA
4007	53RD	0+09.41R		19.58	PPL				N.I.P.
4008	53RD	1+43.24R		11.14	MTL				LEAVE
1007	53RD	5+10.52R		1.17	SAM			1	RCA
4010	53RD	1+98.71R		31.14	SGN				N.I.P.
4011	53RD	2+15.70R	22.94		MTL				LEAVE
			C-05: S	TA 3+00R 1	O 6+00R				
1006	53RD	3+47.34R		0.87	SAM			1	RCA
1007	53RD	5+10.52R		1.17	SAM			1	RCA
2010	53RD	3+52.34R	4.13		SDM		1		RCA
2011	53RD	3+53.89R	8.49		SDM		1		RCA
2012	53RD	4+41.83R	4.92		SDM		1		RCA
2013	53RD	4+92.06R	4.45		SDM		1		RCA
2014	53RD	4+78.76R		16.47	MCB				LEAVE
2015	53RD	4+77.95R	13.51		MCB		1		RCA
2016	53RD	4+94.83R	32.84	40	MCB				LEAVE
2017	53RD	5+16.76R		19.64	SDM		1		RCA
2018	53RD	5+25.20R	31.73		MCB		1		RCA
2019	53RD	5+43.19R	14.56	16.00	MCB		1		RCA
2020	53RD	5+43.71R	F 10	16.02	MCB		1		RCA
2021	53RD	5+41.41R	5.10		SDM		1		RCA
3003	53RD	4+91.68R	38.03		HYD				N.I.P.
3004	53RD	4+91.68R	38.03		HYD				N.I.P.
4012	53RD	4+79.71R	23.48	40.55	MTL				LEAVE
4013	53RD	4+80.64R		19.63	SGN				LEAVE
4014	53RD	5+41.49R	4000	22.25	PPL				LEAVE
4015	53RD	5+37.96R	16.94		SGN		1		LEAVE

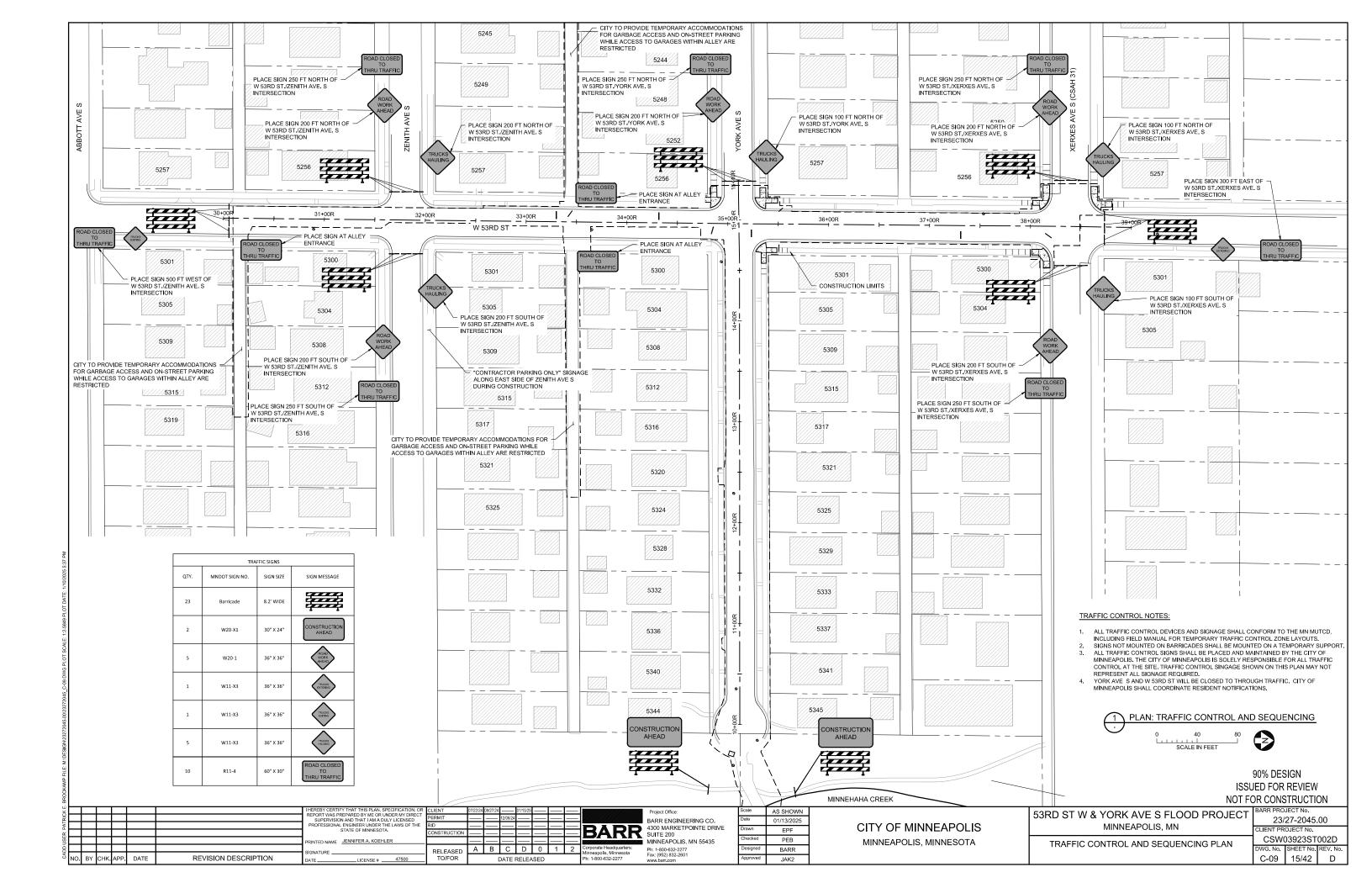
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B E R	G N M	STATION	OF	SET	E	U S T	O V E	O C A	A R K
	E N T	SIATION	LEFT	RIGHT				T E	S
			C-06: S	TA 6+00R T	O 9+00R				
1008	53RD	6+82.03R	4.29		SAM				LEAVE
1009	53RD	8+38.91R		1.01	SAM				LEAVE
2022	53RD	6+75.38R		0.98	SDM		1		RCA
2023	53RD	8+44.78R	27.39		SDM		1		RCA
2024	53RD	8+20.08R	33.68		MCB		1		RCA
2025	53RD	8+58.03R	34.19		MCB		1		RCA
3006	53RD	8+20.36R	9.94		MWT				LEAVE
3007	53RD	8+28.46R	15.63		MWT				LEAVE
3008	53RD	8+17.15R	38.04		HYD				N.I.P.
3009	53RD	8+23.17R	38.55		MWT				N.I.P.
4015	53RD	8+07.13R	19.05		MTL				LEAVE
4016	53RD	8+15.93R	28.22		SGN				LEAVE
4017	53RD	8+60.34R	36.69		SGN				LEAVE
4018	53RD	8+07.65R		10.65	MTL				LEAVE
4019	53RD	7+99.83R		20.34	SGN				LEAVE
4020	53RD	8+07.65R		21.45	MTL				LEAVE
4021	53RD	8+09.06R		21.08	PPL				LEAVE
			C-0	7: ALLEYW	/AYS				
2026	ALLEY 1	0+09.99ST	NA	NA	SDM		1		RCA
2027	ALLEY 2	0+10.08ST	NA	NA	SDM		1		RCA
2028	ALLEY 3	0+10.00ST	NA	NA	SDM		1		RCA
2029	ALLEY 3	1+97.62ST	NA	NA	SDM		1		RCA

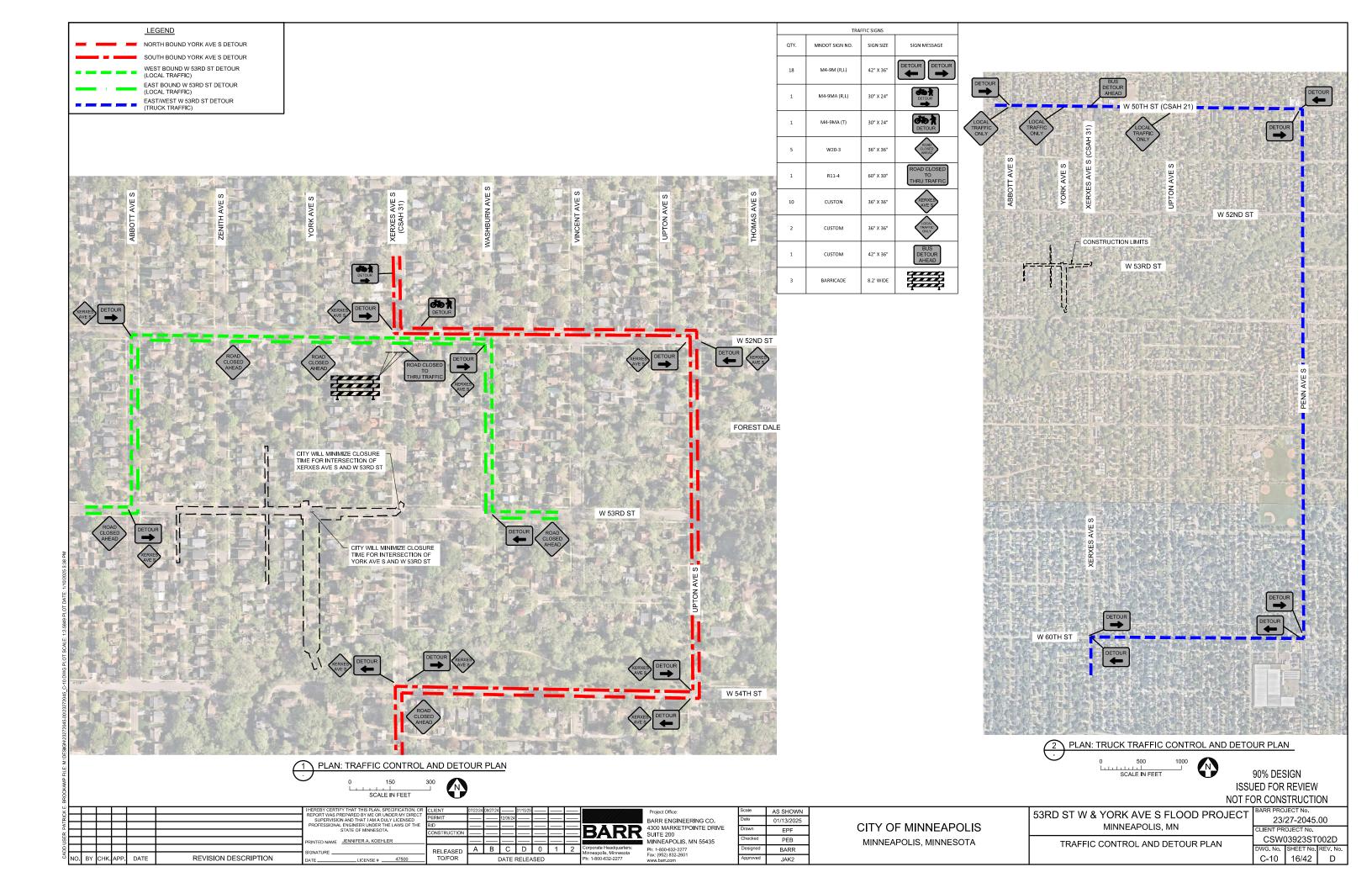
LEGEND

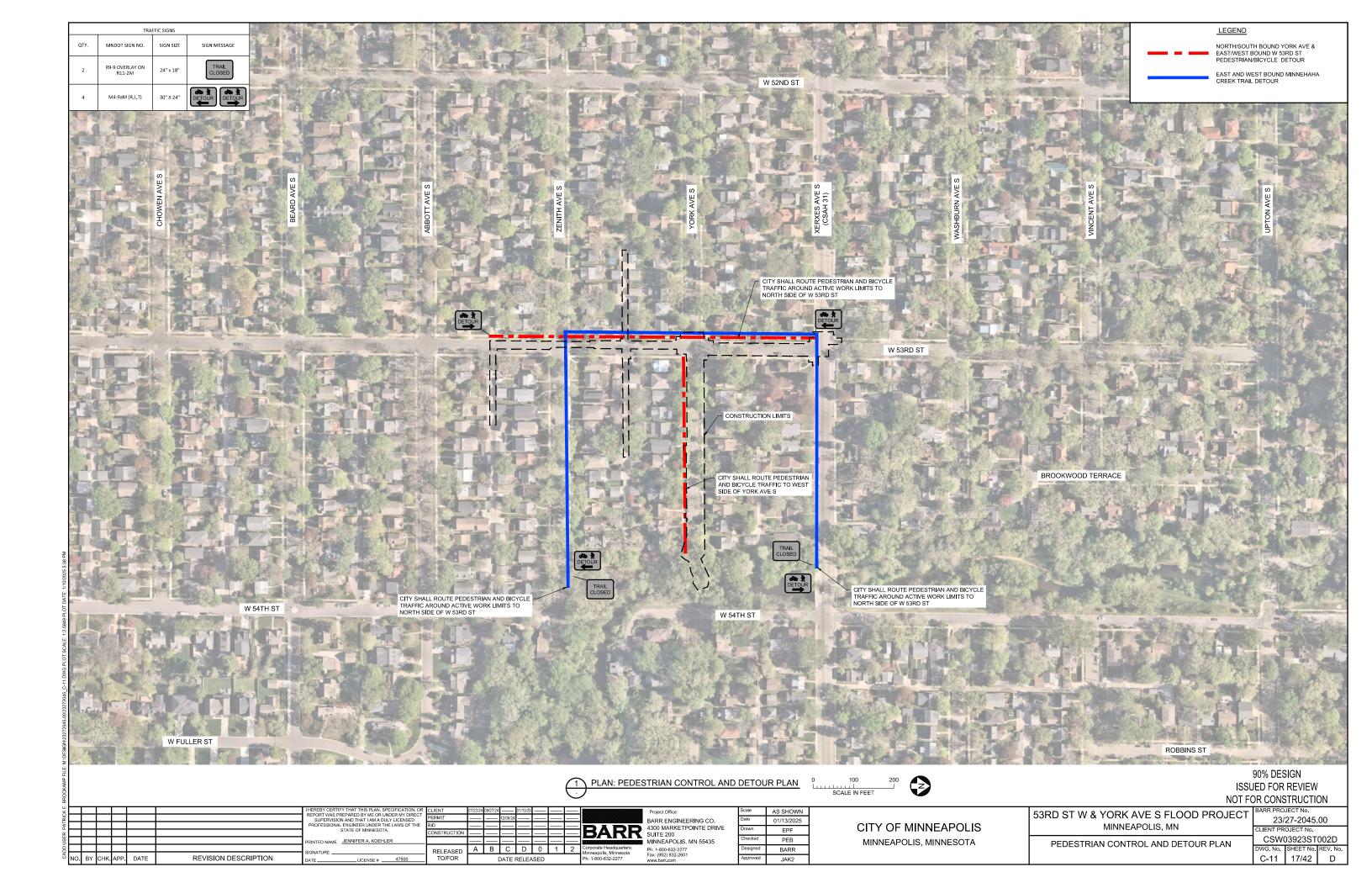
MTL FHH MGS MGG MEL PPL SAM FES MCB CB MDH SDM STM MON HHL CAL CSV TSB SPM STL HYD STL HYD STL HYD STC MUK N.I.P. RCA	COMMUNICATION MANHOLE FIBER OPTIC HAND HOLD GAS MANHOLE GAS VALVE POWER MANHOLE POWER POLE SANITARY SEWER MANHOLE STORM FLARED END SECTION STORM SEWER CATCH BASIN STORM SEWER CATCH BASIN CIRCULAR STORM SEWER CATCH BASIN CIRCULAR STORM SEWER DRILLHOLE STORM SEWER MAHOLE STORM SEWER MAHOLE STORM SEWER DRILLHOLE STORM SEWER MAHOLE TRAFFIC LIGHTING CABINET TRAFFIC LIGHTING CABINET TRAFFIC SIGNAL BASE TRAFFIC SIGNAL CABINET TRAFFIC SIGNAL DEDESTAL TRAFFIC SIGNAL PEDESTAL TRAFFIC SIGNAL PROBLEM WATER WANHOLE UNKNOWN MANHOLE UNINGWATER WANHOLE NOT IN PROJECT REMOVE AND REPLACE CASTING ASSEMBLY
1*	BY PRIVATE UTILITY COMPANY

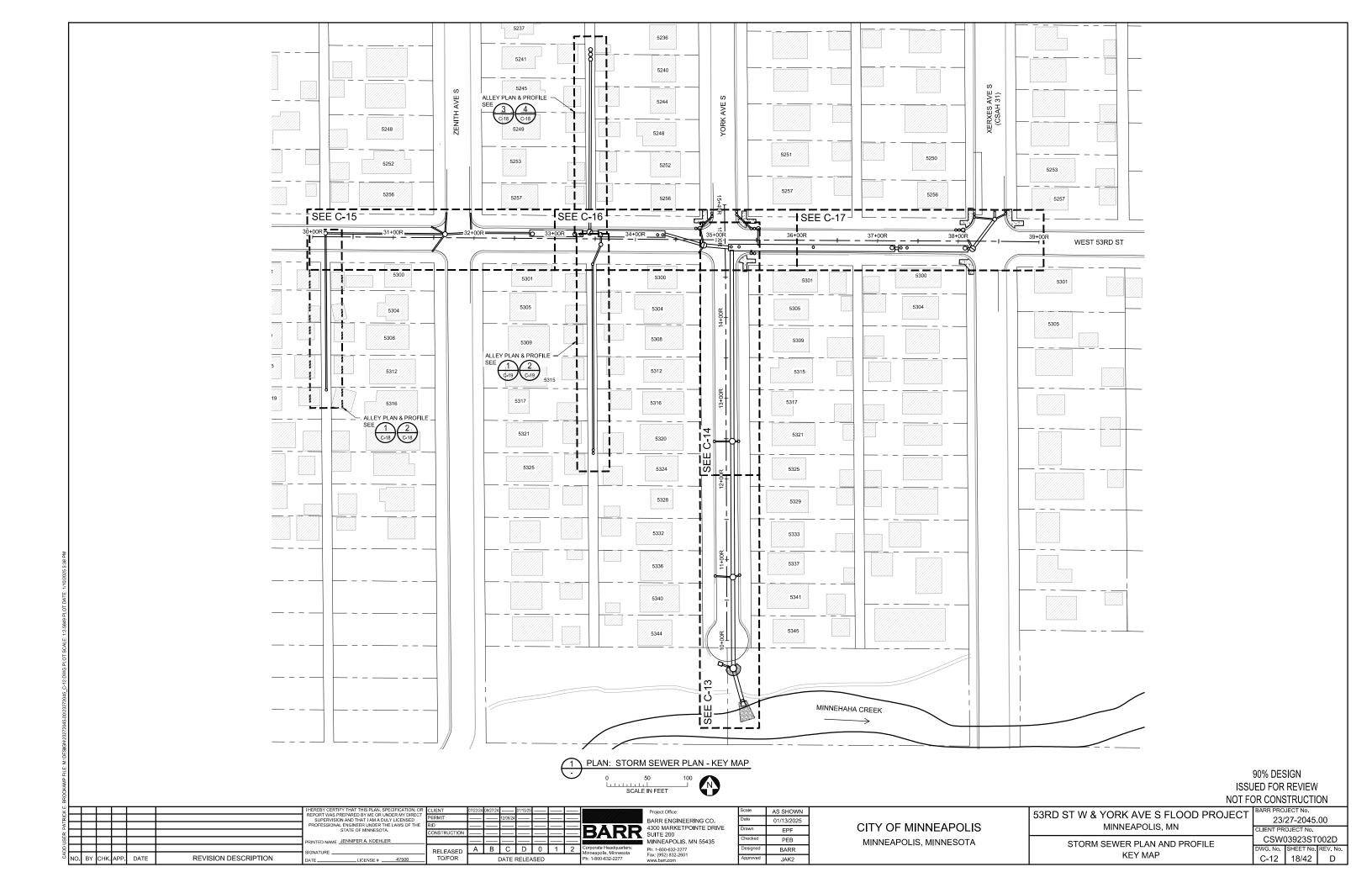
1 TABLE: EXISTING UTILITY TABULATION

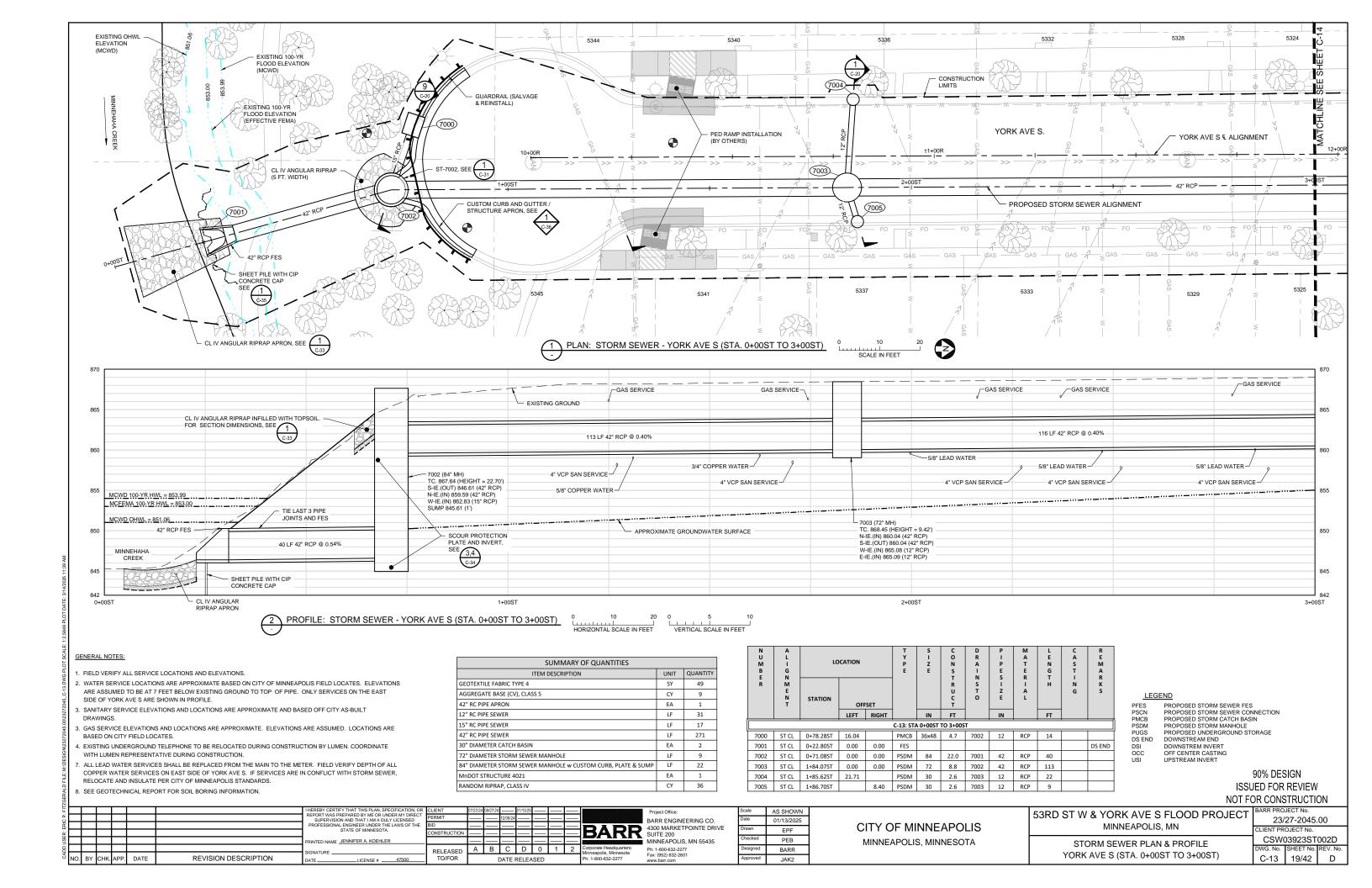
ATRICK E						I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OF REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER LINDER THE LAWS OF THE	PERMIT BID	07/22/24 09/27/24 01/13/25 12/06/24			Project Office: BARR ENGINEERING CO.	Scale Date	AS SHOWN 01/13/2025	OLTY OF MININEA POLICE	53RD ST W & YORK AVE S FLOOD PROJECT MINNEAPOLIS, MN	BARR PROJECT No. 23/27-2045.0	00
USER: P.						STATE OF MINNESOTA. PRINTED NAME JENNIFER A. KOEHLER	CONSTRUCTION	N	BA		I300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435	Drawn Checked	EPF PEB	CITY OF MINNEAPOLIS MINNEAPOLIS, MINNESOTA	EXISTING EVENT POINT TABLE	CSW03923ST0)02D
CADD	O. BY	CHK.	APP. DATE	Ē R	EVISION DESCRIPTION	SIGNATURE LICENSE # 47500	RELEASED TO/FOR	A B C D 0 DATE RELEASED	1 2 Corporate H Minneapolis Ph: 1-800-63	Headquarters: Pr s, Minnesota Fa 332-2277 w	Ph: 1-800-632-2277 ax: (952) 832-2601 www.barr.com	Designed Approved	BARR JAK2		EXISTING EVENT FOINT TABLE	DWG. No. SHEET No. C-08 14/42	REV. No

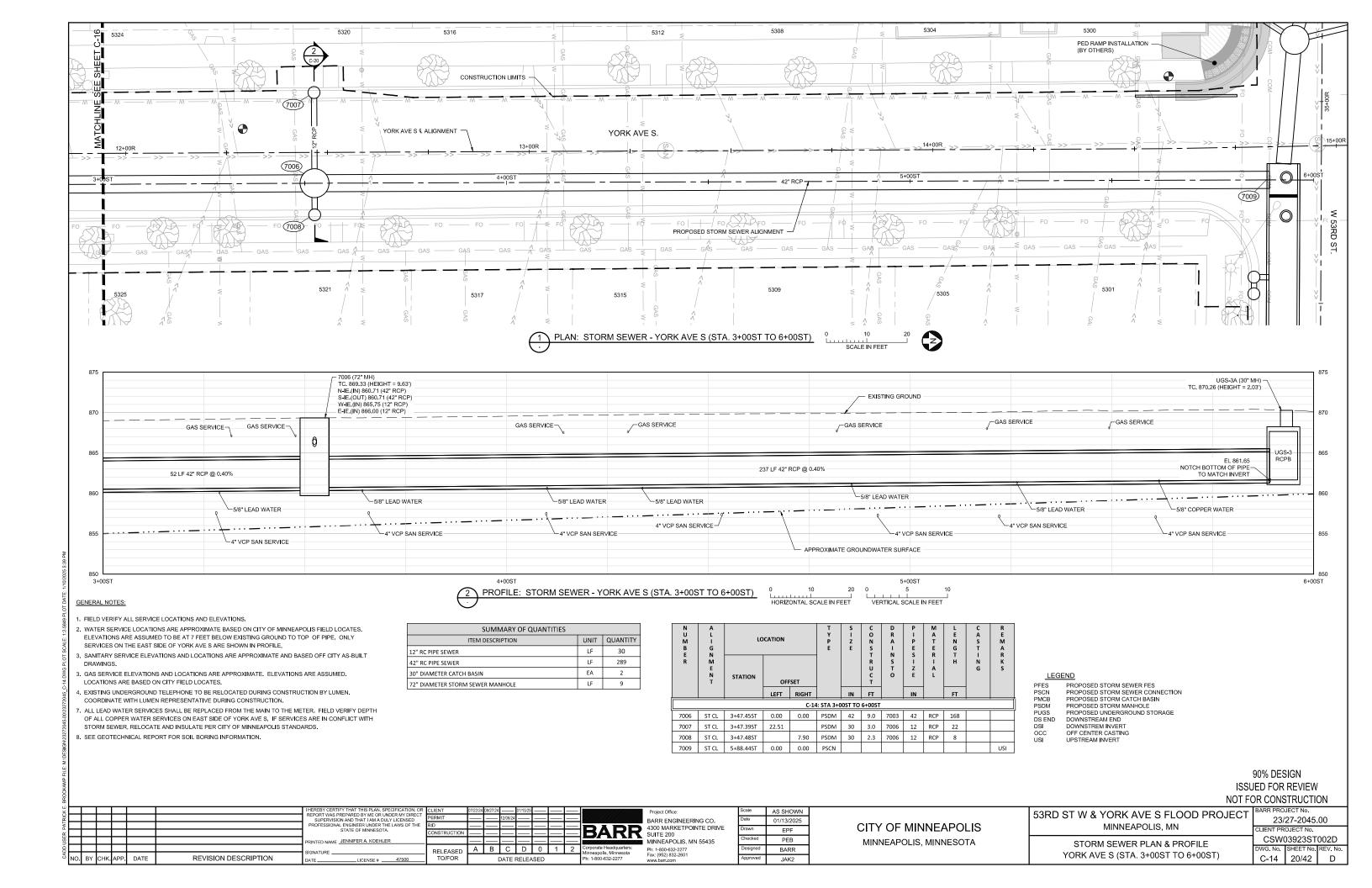


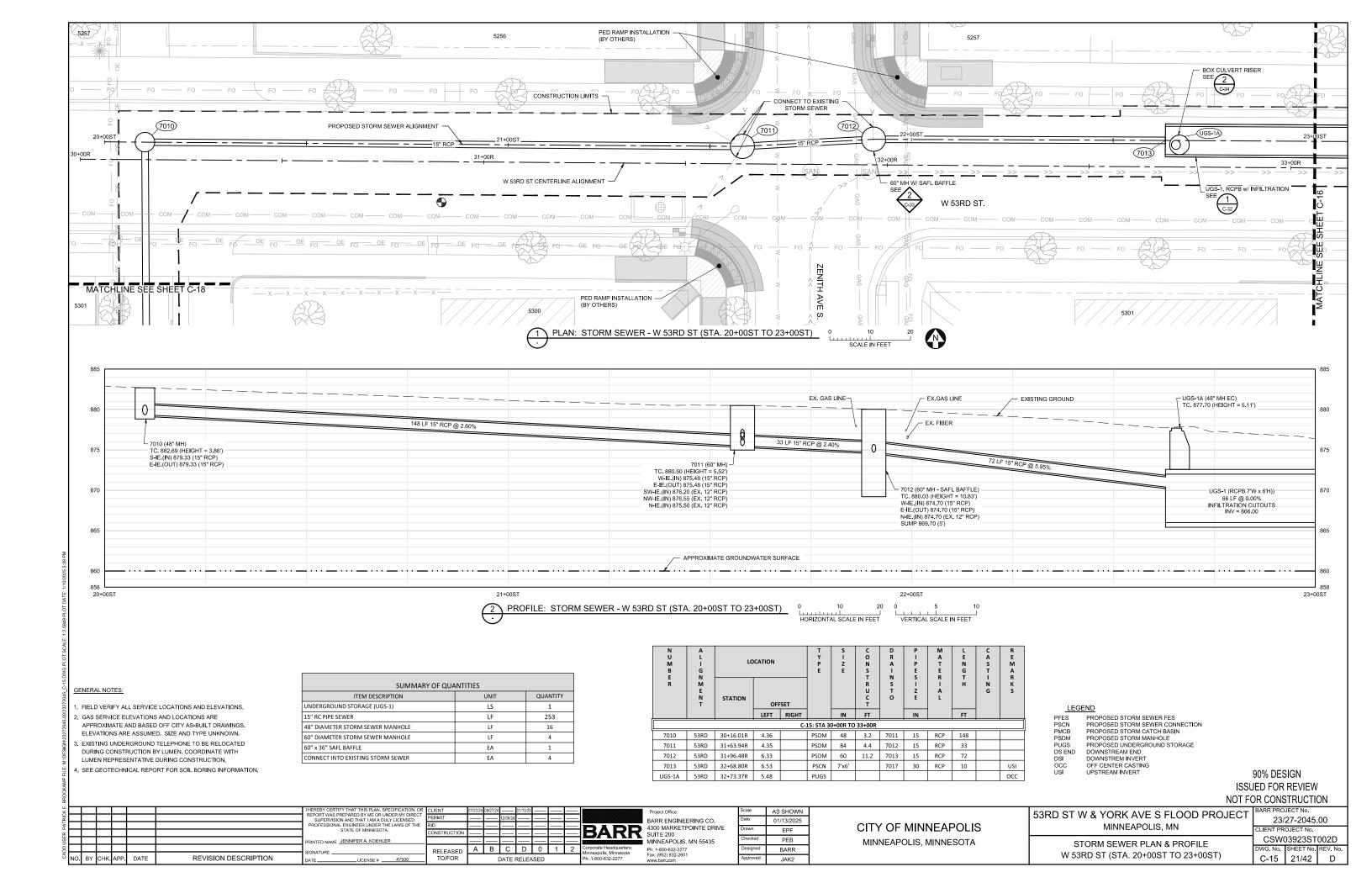


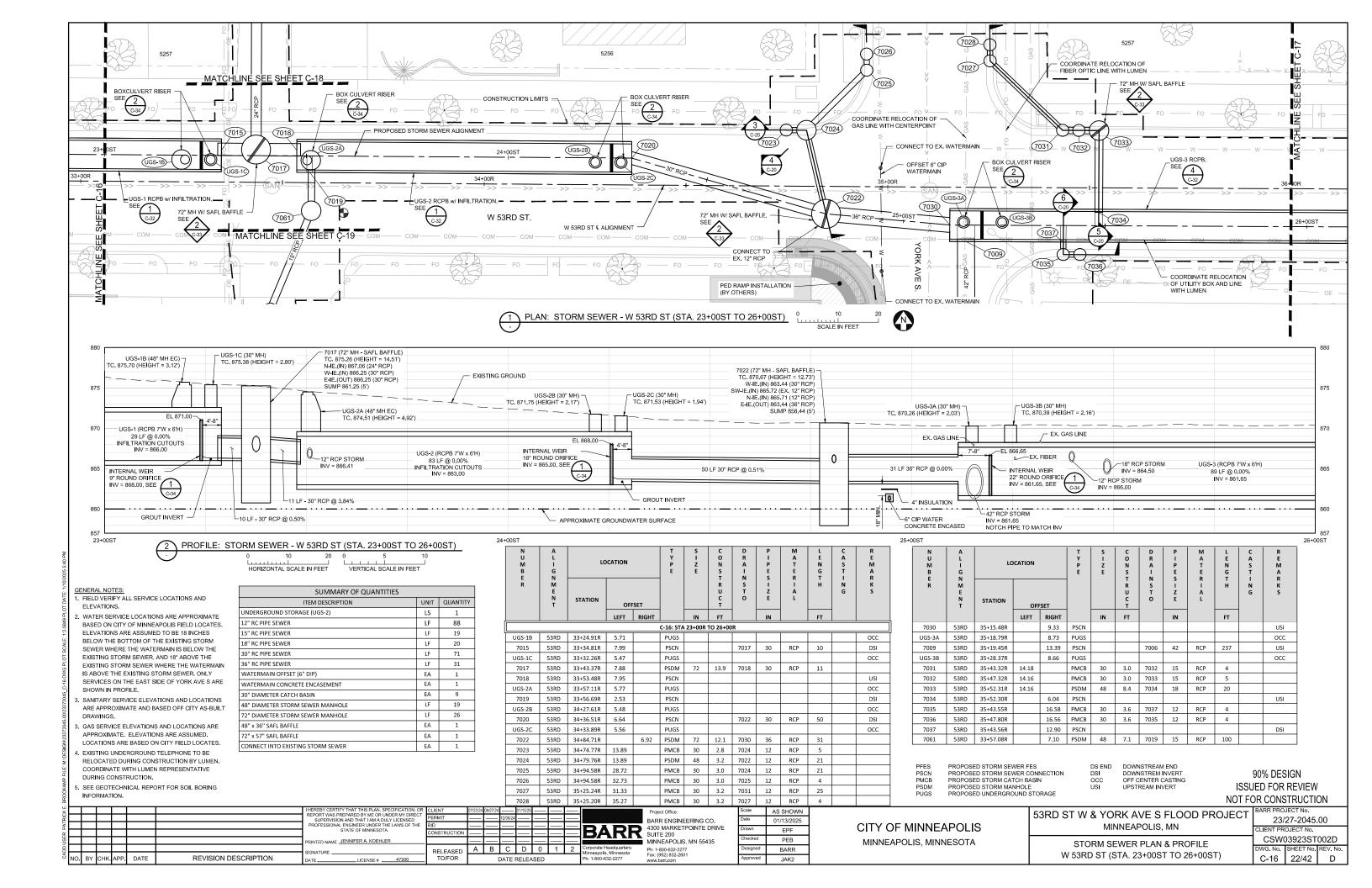


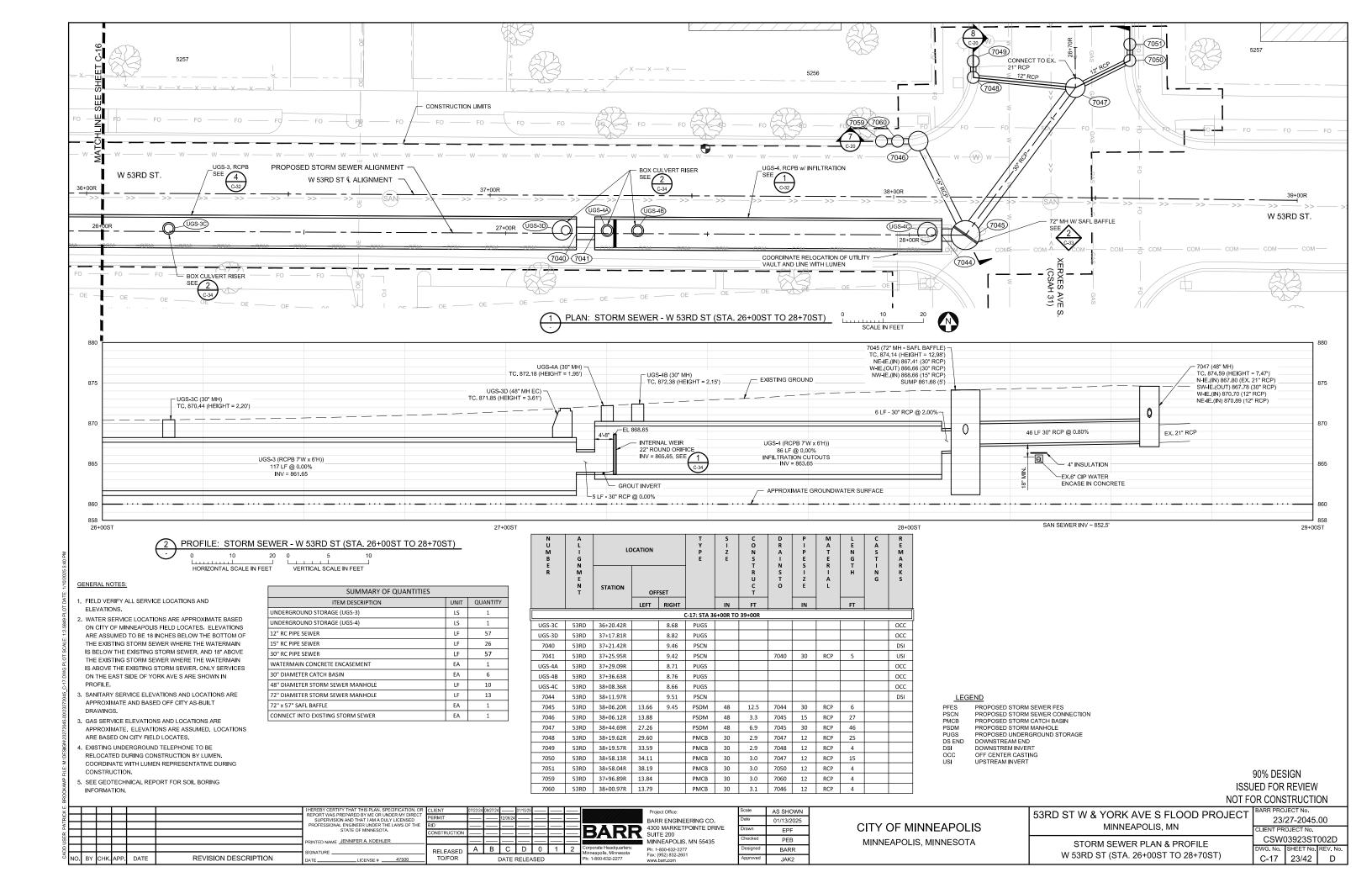


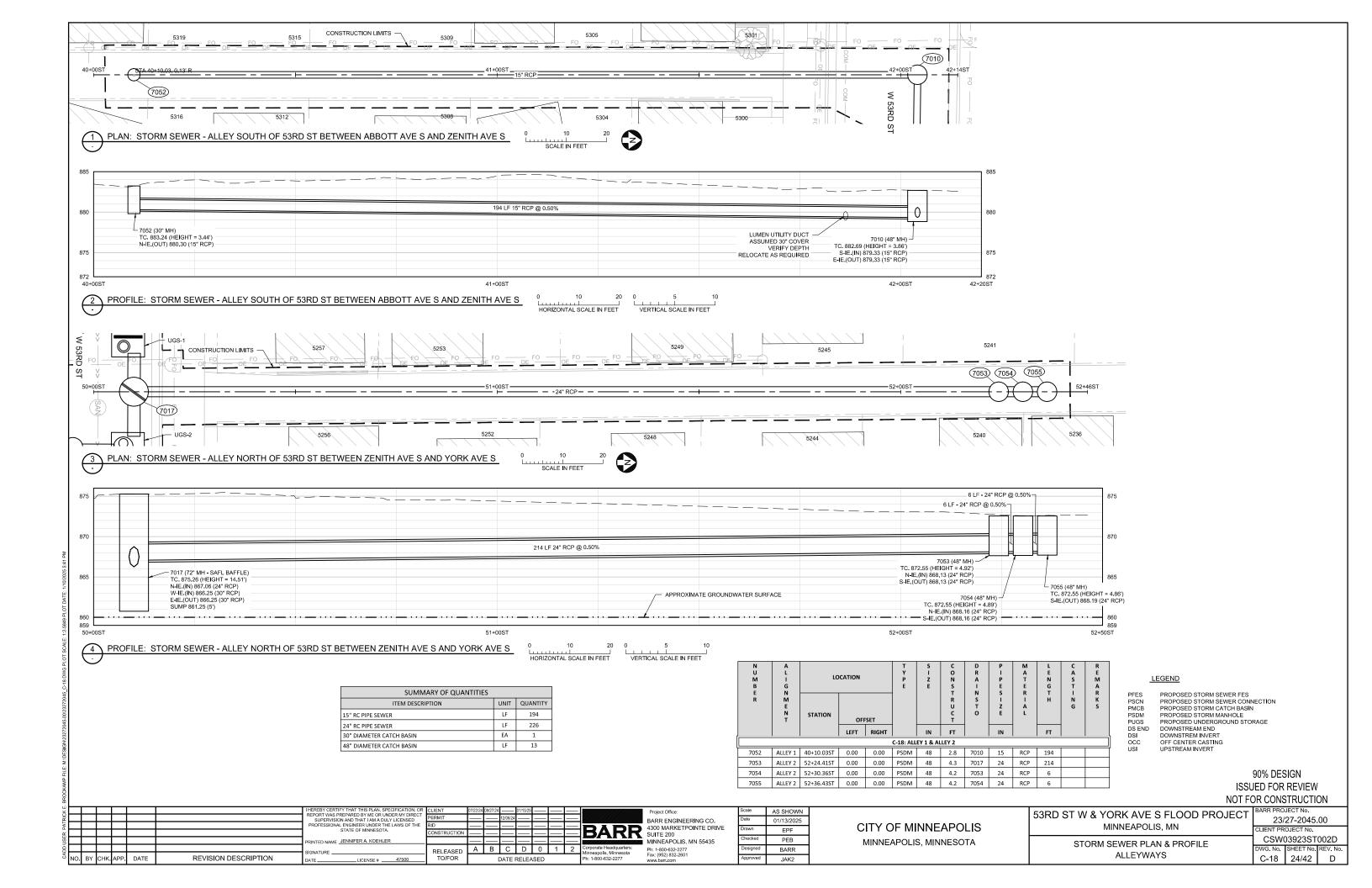


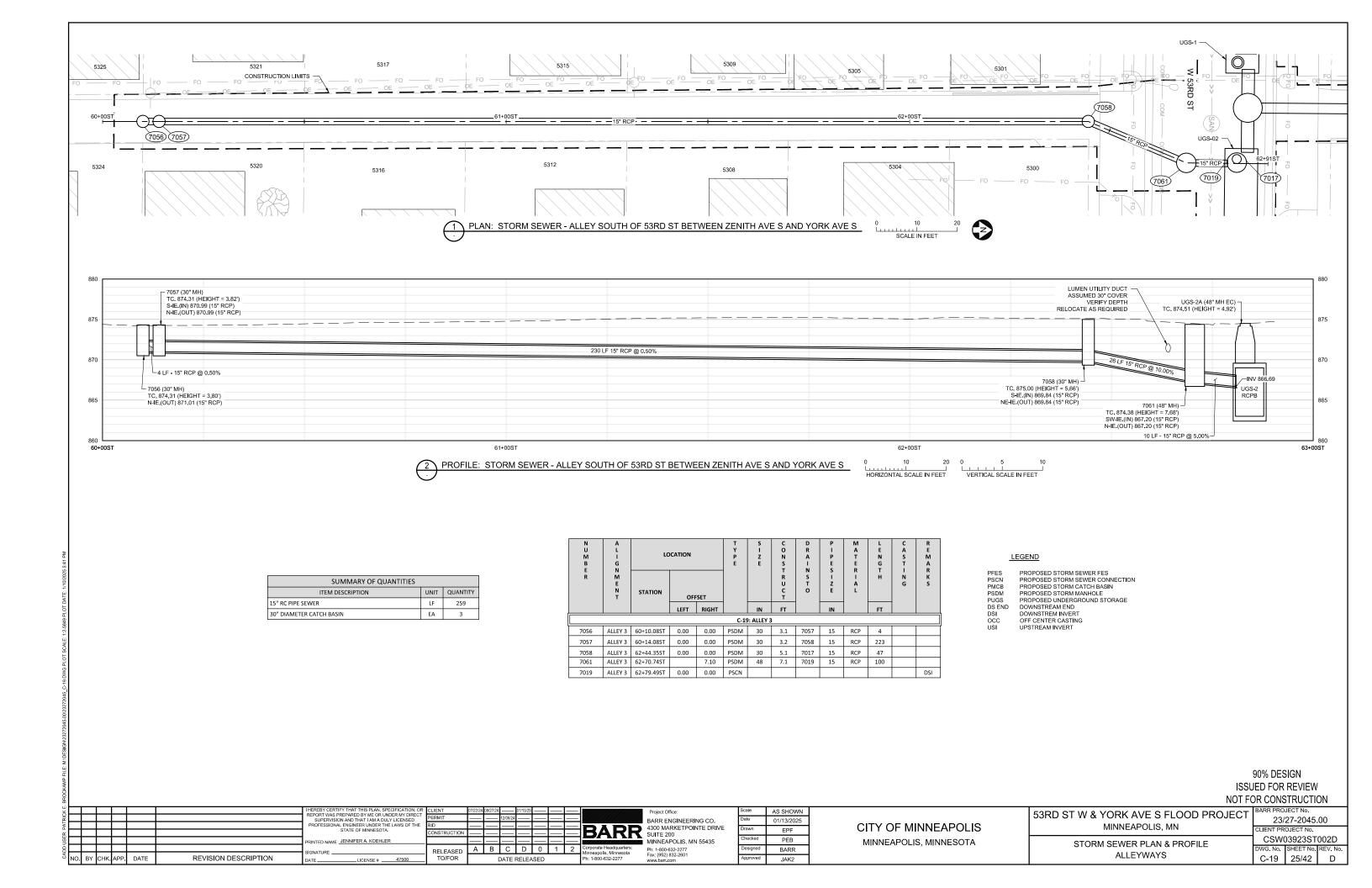


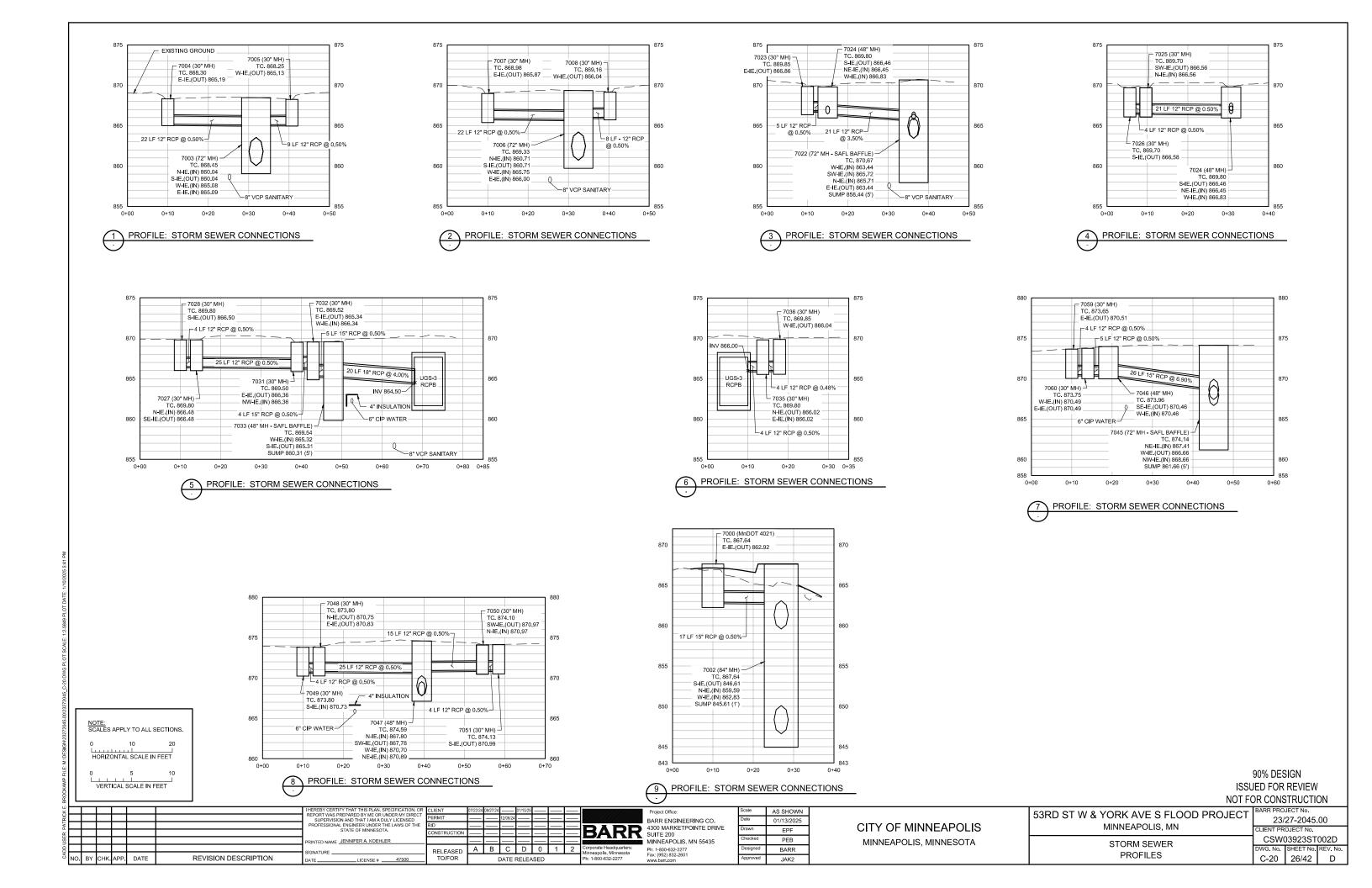


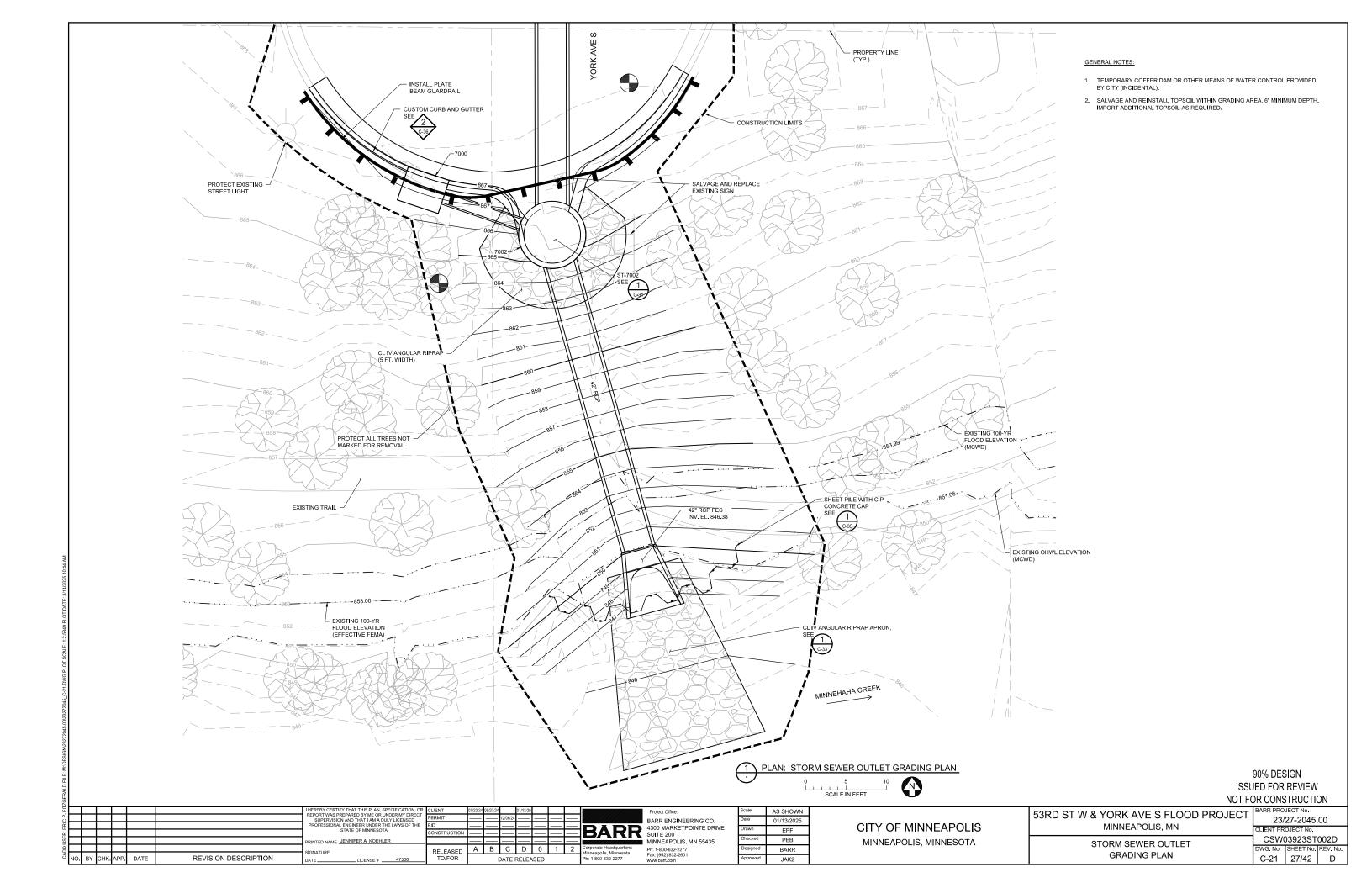


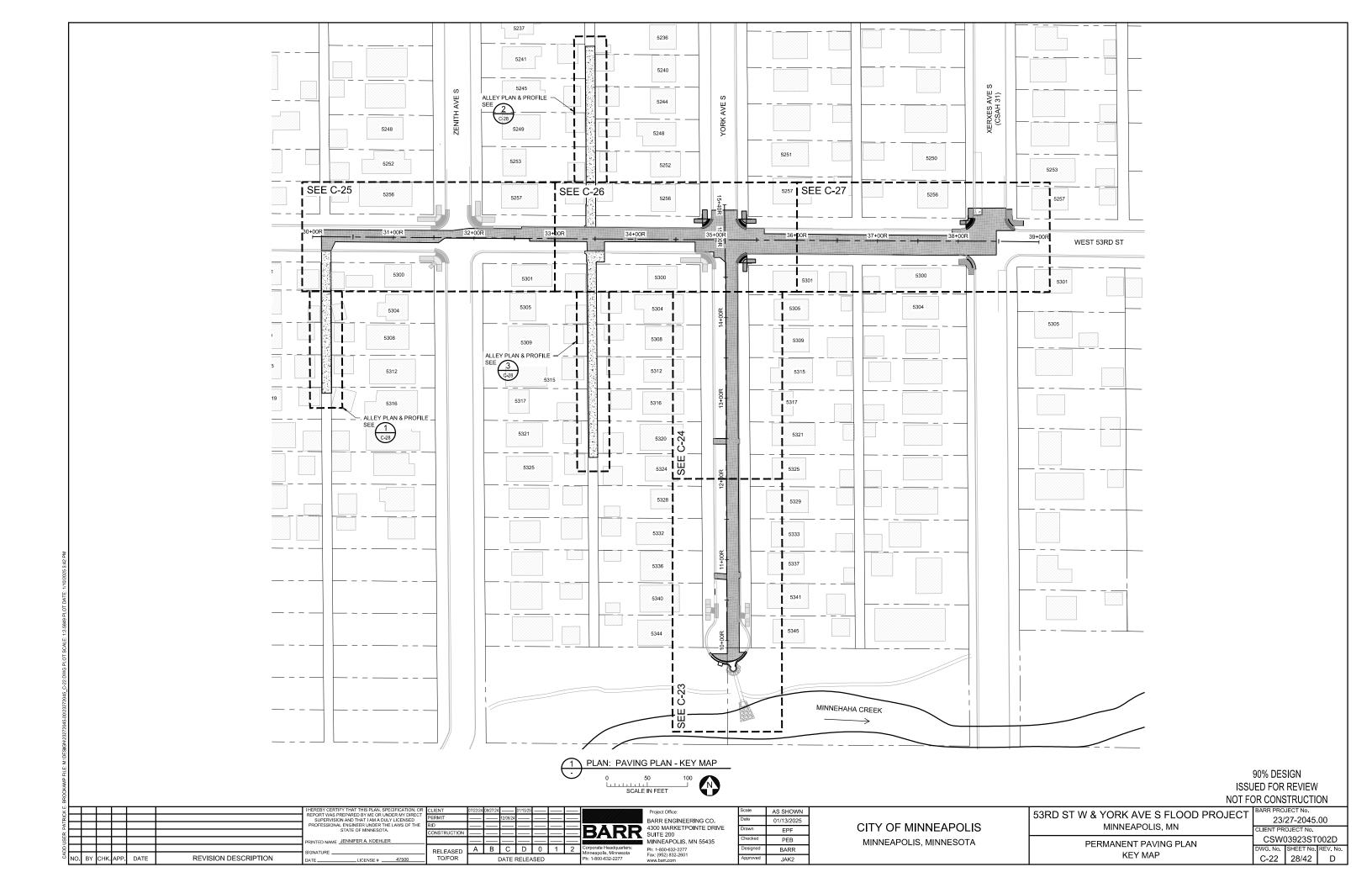


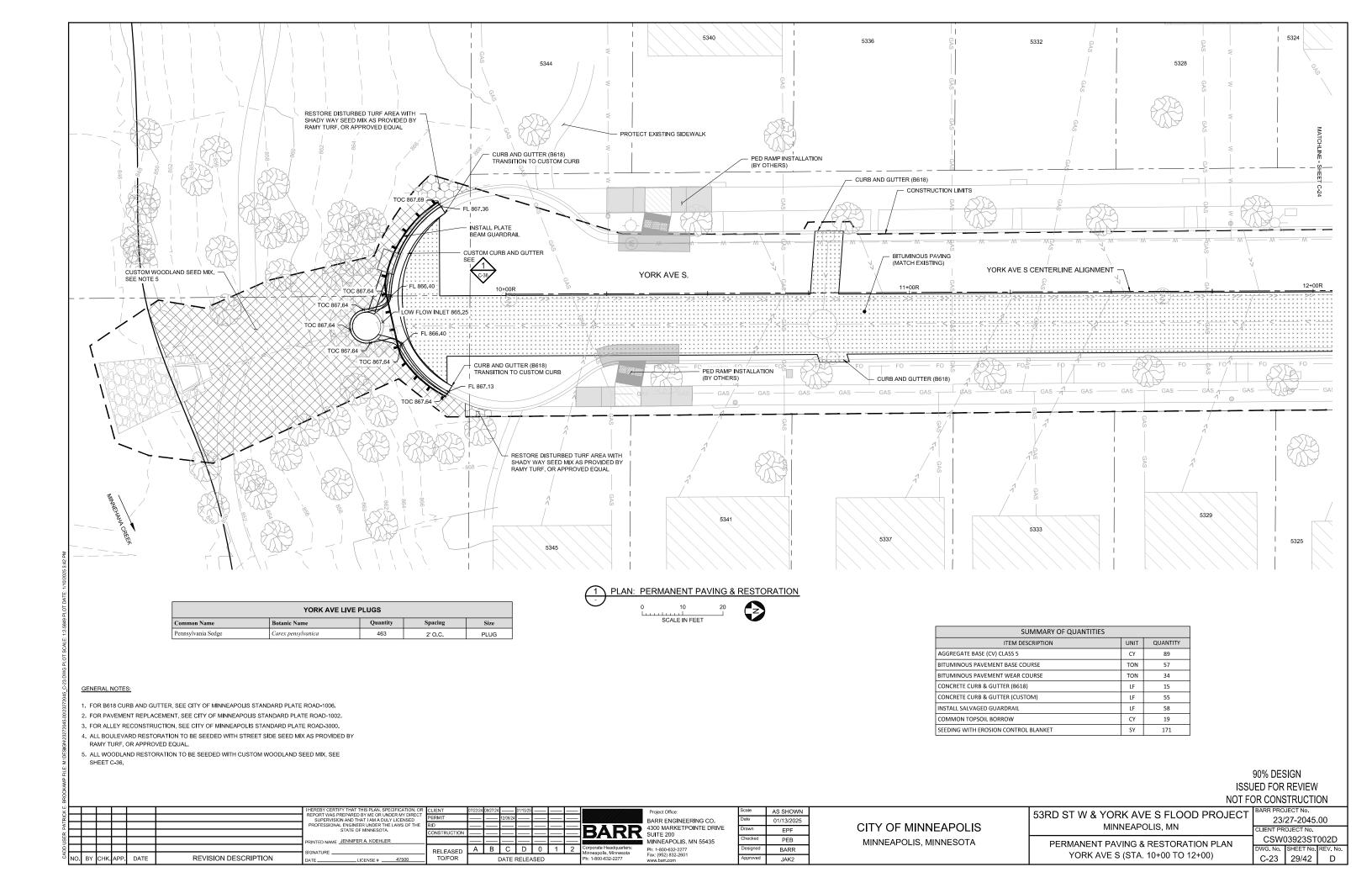


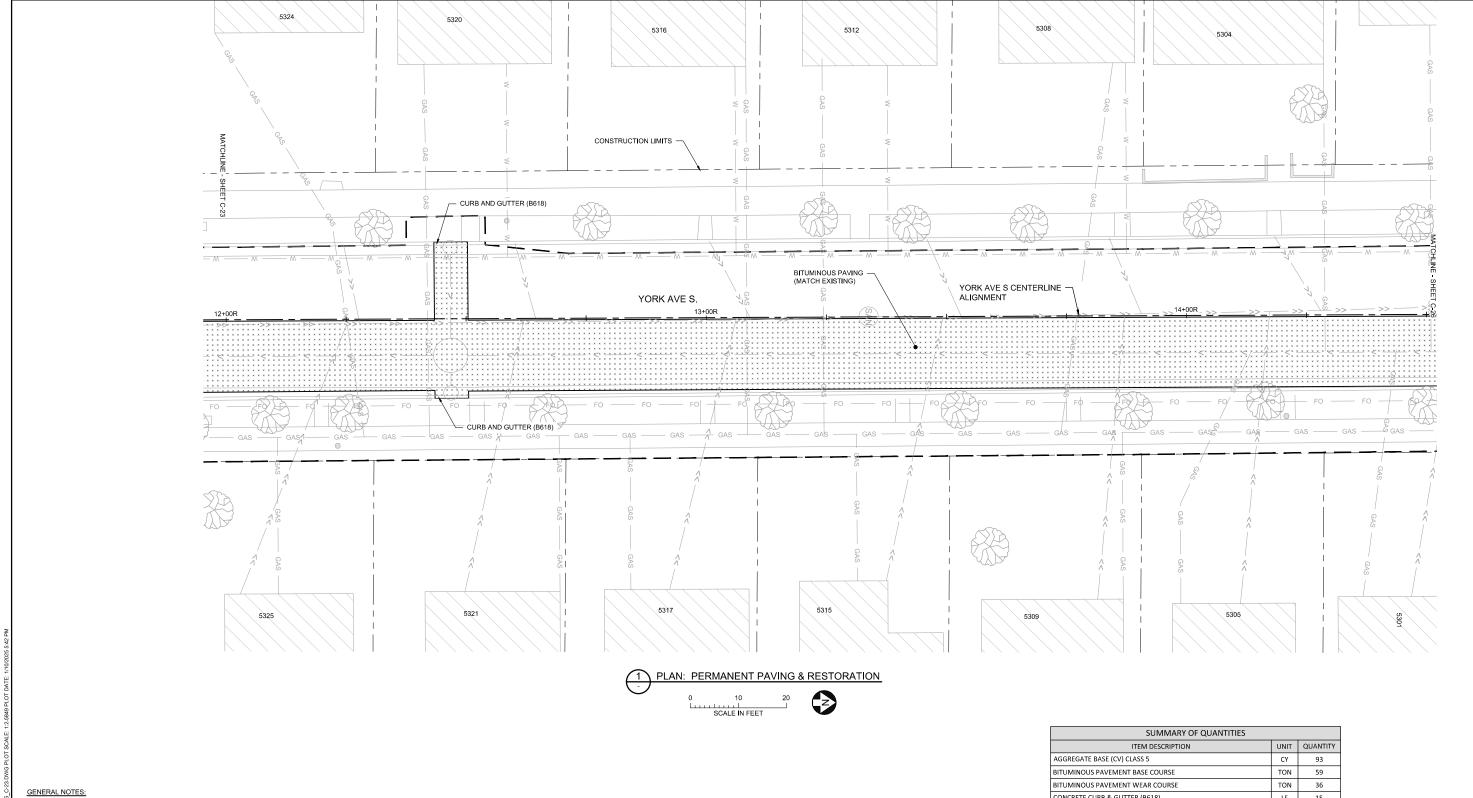








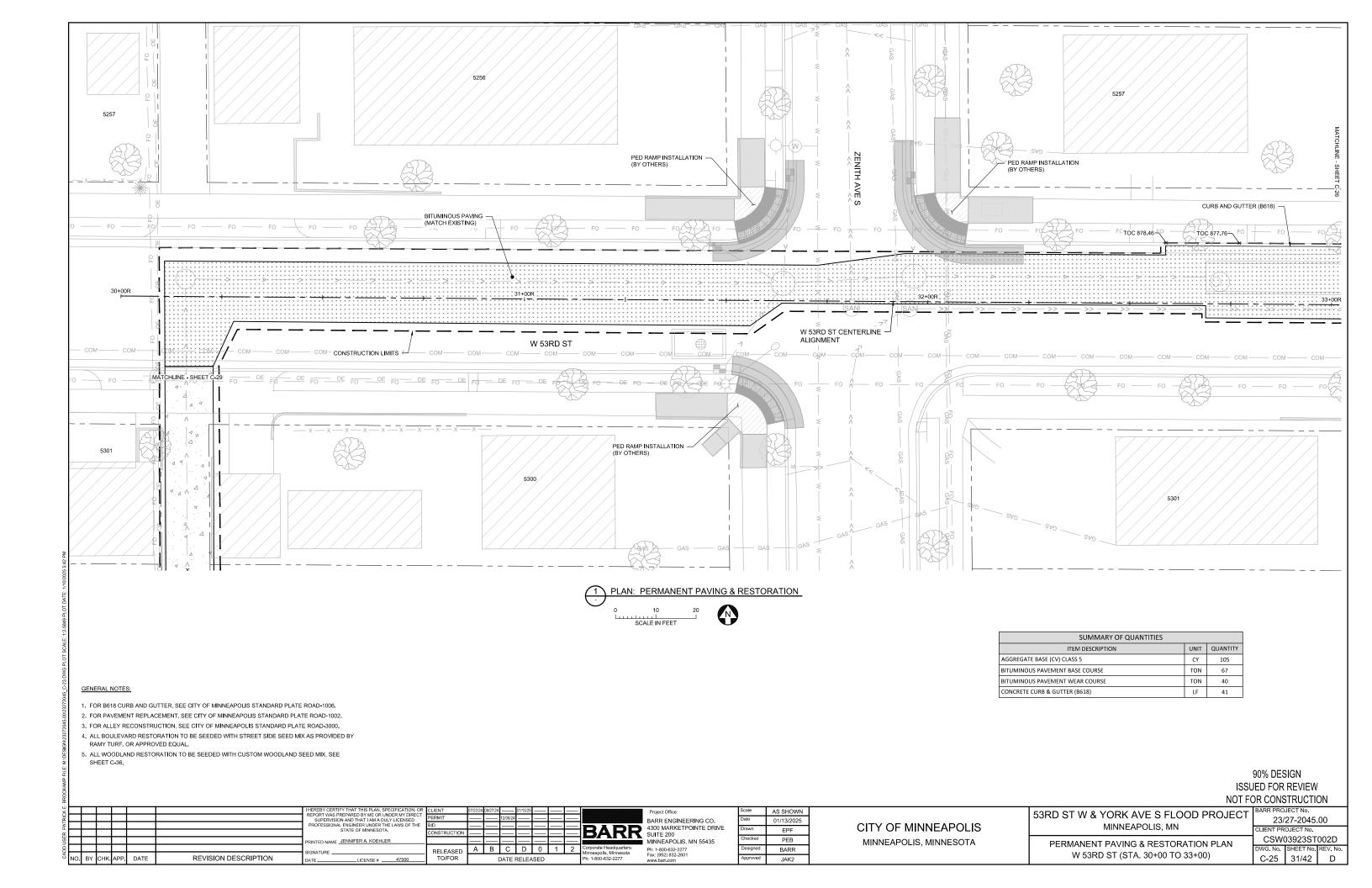


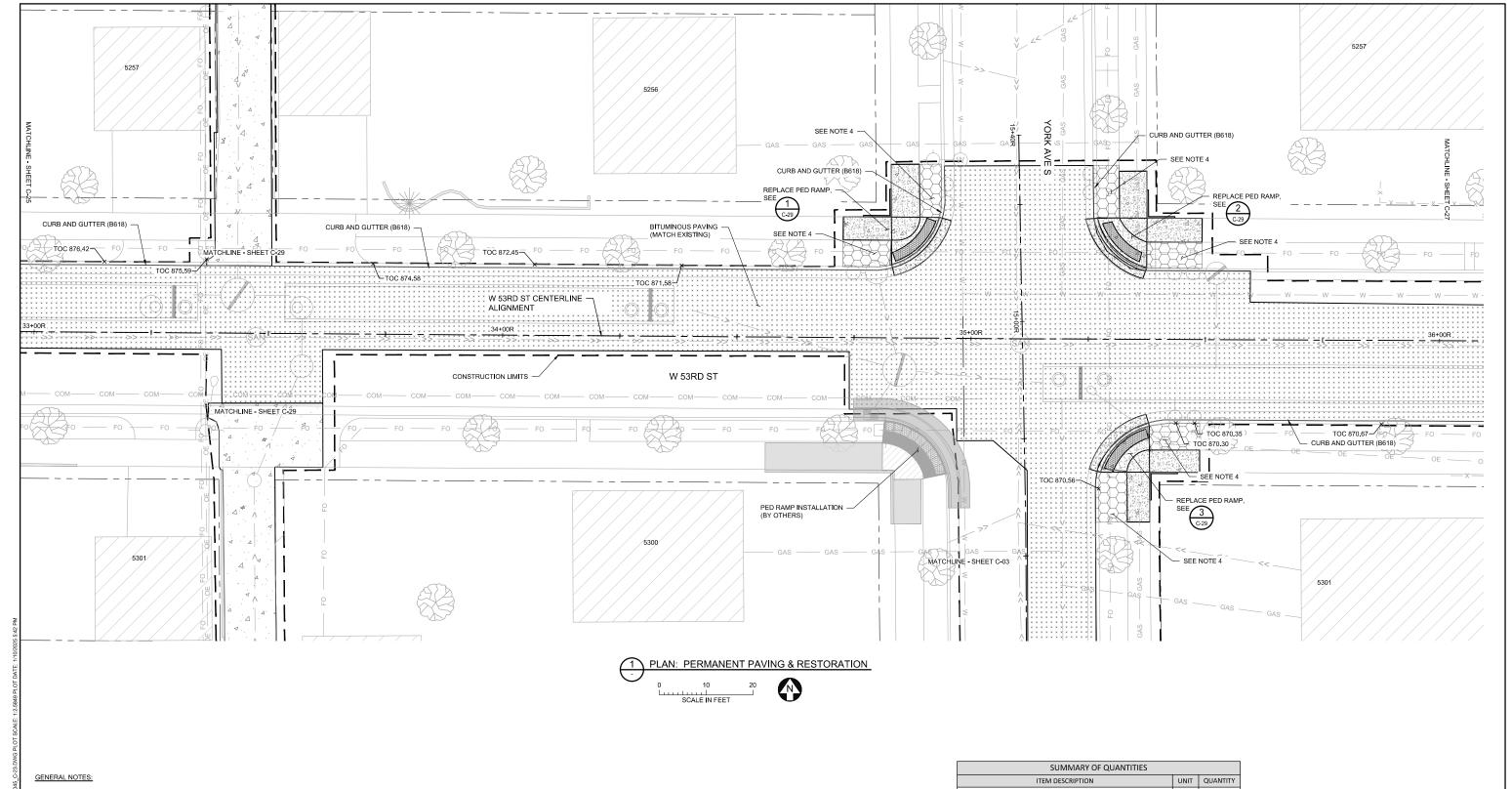


- 1. FOR B618 CURB AND GUTTER, SEE CITY OF MINNEAPOLIS STANDARD PLATE ROAD-1006.
- 2. FOR PAVEMENT REPLACEMENT, SEE CITY OF MINNEAPOLIS STANDARD PLATE ROAD-1002. 3. FOR ALLEY RECONSTRUCTION, SEE CITY OF MINNEAPOLIS STANDARD PLATE ROAD-3000.
- ALL BOULEVARD RESTORATION TO BE SEEDED WITH STREET SIDE SEED MIX AS PROVIDED BY RAMY TURF, OR APPROVED EQUAL.
- 5. ALL WOODLAND RESTORATION TO BE SEEDED WITH CUSTOM WOODLAND SEED MIX, SEE SHEET C-36.

SUMMARY OF QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY
AGGREGATE BASE (CV) CLASS 5	CY	93
BITUMINOUS PAVEMENT BASE COURSE	TON	59
BITUMINOUS PAVEMENT WEAR COURSE	TON	36
CONCRETE CURB & GUTTER (B618)	LF	15

X					I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR	CLIENT 07/22/24	09/27/24 01/13	/25			Project Office:	Scale	AS SHOWN		53RD ST W & YORK AVE S FLOOD PROJECT	BARR PROJECT No.
Ĭ		$\vdash \vdash$			SUPERVISION AND THAT I AM A DULY LICENSED	PERMIT	12/06/24	-			BARR ENGINEERING CO.	Date	01/13/2025			23/27-2045.00
ă.	_	\vdash			PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	BID —		+		DADD	4300 MARKETPOINTE DRIVE	Drawn	EPF	CITY OF MINNEAPOLIS	MINNEAPOLIS, MN	CLIENT PROJECT No.
SER	_	\vdash	+		PRINTED NAME JENNIFER A. KOEHLER	CONSTRUCTION		+-	===	DARR	SUITE 200 MINNEAPOLIS, MN 55435	Checked	PEB	MININEA DOLLO MININECOTA	-	CSW03923ST002D
Ö	_	\vdash	+		PRINTED NAME JENNIFER A: ROEHLER		ВСГ		1 2	Corporate Headquarters:	Ph: 1-800-632-2277	Designed	BARR	MINNEAPOLIS, MINNESOTA	PERMANENT PAVING & RESTORATION PLAN	DWG No. SHEET NO BEY NO.
8	NO BY	OLUZ AT	D DATE	DEVISION DESCRIPTION	SIGNATURE	RELEASED A			- 	Minneapolis, Minnesota	Fax: (952) 832-2601	Approved			YORK AVE S (STA. 12+00 TO 14+50)	C 24 20/42 D
Ü	NO. BY	CHK. AF	P. DATE	REVISION DESCRIPTION	DATELICENSE #47500	TO/FOR	DATE REL	EASED		Ph: 1-800-632-2277	www.barr.com	Approved	JAK2			C-24 30/42 D

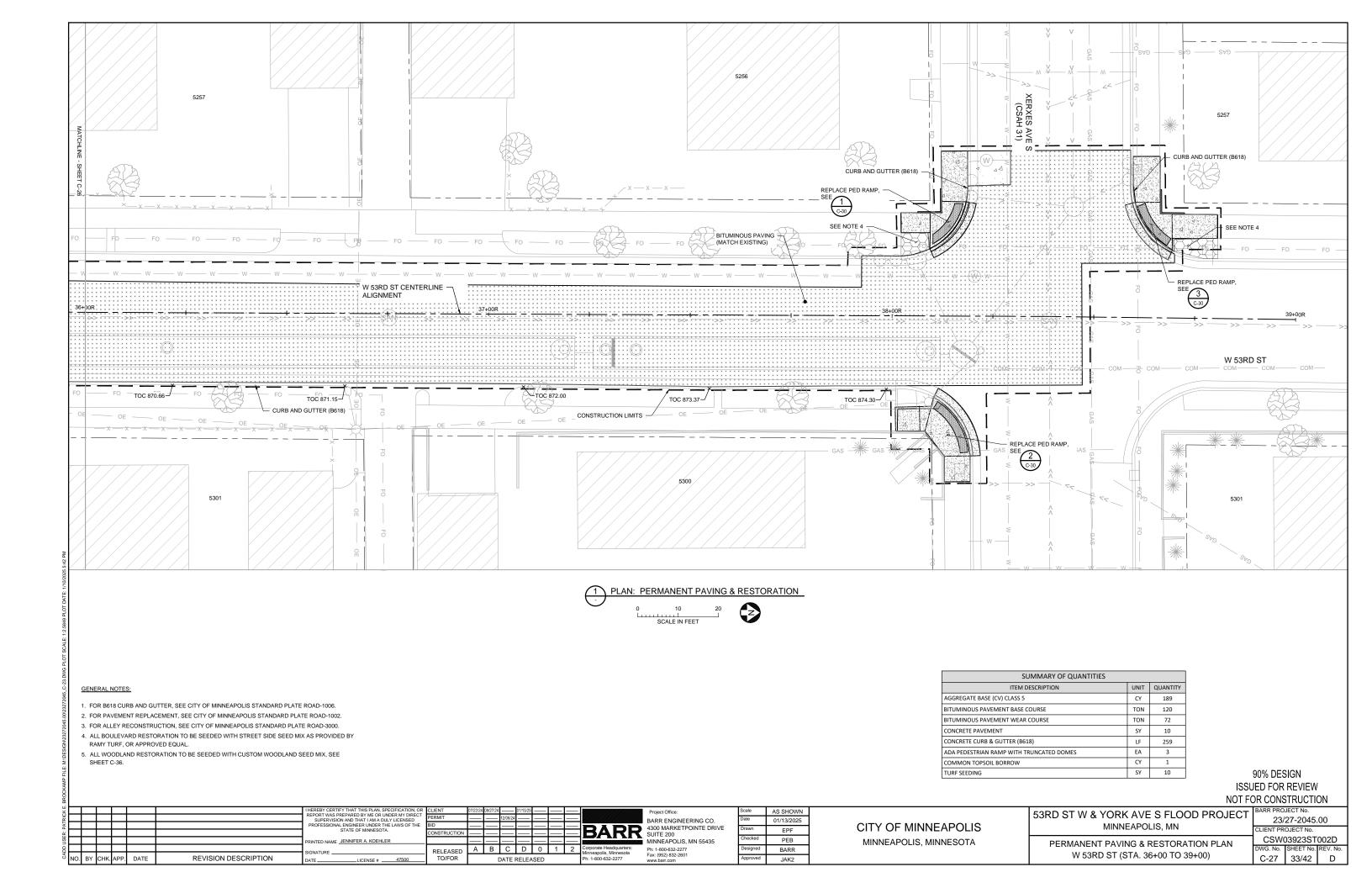


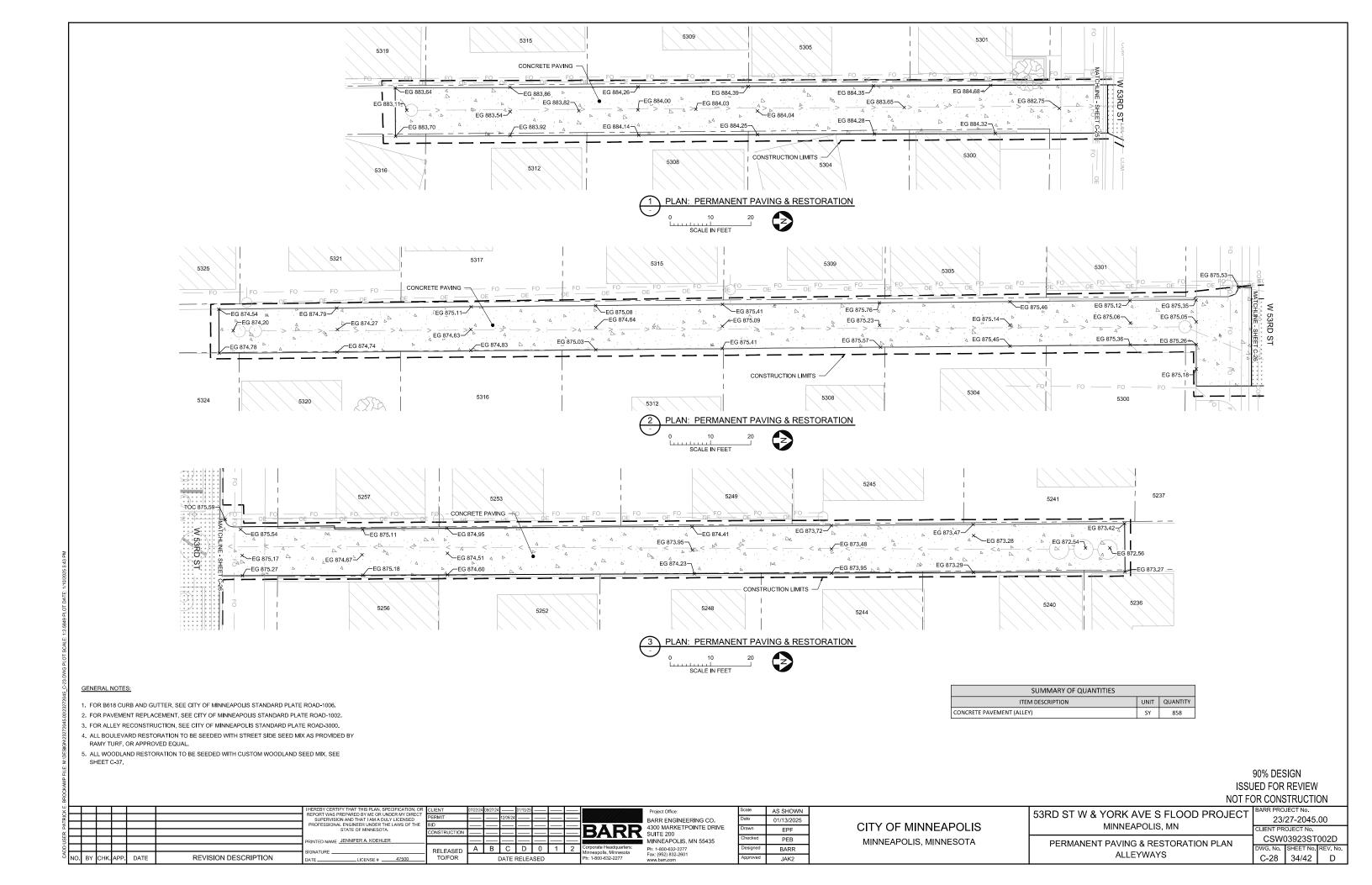


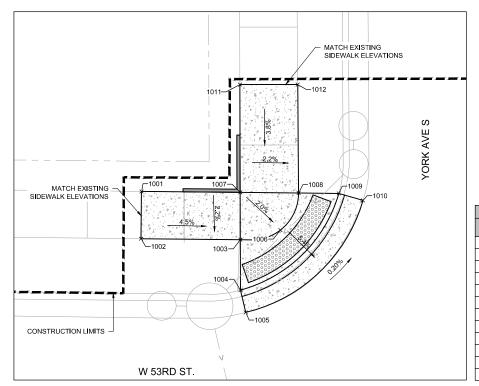
- 1. FOR B618 CURB AND GUTTER, SEE CITY OF MINNEAPOLIS STANDARD PLATE ROAD-1006.
- 2. FOR PAVEMENT REPLACEMENT, SEE CITY OF MINNEAPOLIS STANDARD PLATE ROAD-1002.
 3. FOR ALLEY RECONSTRUCTION, SEE CITY OF MINNEAPOLIS STANDARD PLATE ROAD-3000.
- 4. ALL BOULEVARD RESTORATION TO BE SEEDED WITH STREET SIDE SEED MIX AS PROVIDED BY RAMY TURF, OR APPROVED EQUAL.
- 5. ALL WOODLAND RESTORATION TO BE SEEDED WITH CUSTOM WOODLAND SEED MIX, SEE SHEET C-36.

SUMMARY OF QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY
AGGREGATE BASE (CV) CLASS 5	CY	205
BITUMINOUS PAVEMENT BASE COURSE	TON	130
BITUMINOUS PAVEMENT WEAR COURSE	TON	78
CONCRETE CURB &GUTTER (B618)	LF	285
ADA PEDESTRIAN RAMP WITH TRUNCATED DOMES	EA	3
COMMON TOPSOIL BORROW	CY	5
TURF SEEDING WITH HYDROMULCH	SY	42

* E		\Box			I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR LINDER MY DIRECT	OLILIV.	07/22/24 09/27/24 01/13/25		Project Office:	Scale	AS SHOWN		53RD ST W & YORK AVE S FLOOD PROJECT	BARR PROJECT No.	
Ř	—		_		SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER LINDER THE LAWS OF THE	PERMIT	12/06/24		BARR ENGINEERING CO.	Date	01/13/2025			23/27-2045	5.00
₫.	+		_		STATE OF MINNESOTA.	BID CONSTRUCTION		DADE	4300 MARKETPOINTE DRIVE	Drawn	EPF	CITY OF MINNEAPOLIS	MINNEAPOLIS, MN	CLIENT PROJECT No.	
₩.			-		PRINTED NAME JENNIFER A. KOEHLER	CONSTRUCTION	` = = = = = 	DAIL	SUITE 200 MINNEAPOLIS, MN 55435	Checked	PFB	MININEADOLIC MININECOTA		csw039235	T002D
0	+	 	_		PRINTED NAME BENNIFER A. ROCHEER		A B C D 0 1 2	Corporate Headquarters:		Designed	BADD	MINNEAPOLIS, MINNESOTA	PERMANENT PAVING & RESTORATION PLAN	DWG. No. SHEET NO	
8	O BY	CUIZ AF	PP. DATE	REVISION DESCRIPTION	SIGNATURE	RELEASED TO/FOR	A B G B G T Z	Minneapolis, Minnesota Ph: 1-800-632-2277	Ph: 1-800-632-2277 Fax: (952) 832-2601	Approved	DAKK		W 53RD ST (STA. 33+00 TO 36+00)	C-26 32/42	T
L	О. ВТ	CHK. AF	F. DATE	REVISION BESCRIFTION	DATELICENSE#4/500	- 10/10/1	DATE RELEASED	FII. 1-000-032-2277	www.barr.com	тфрготов	JAK2		<u> </u>	0-20 32/42	

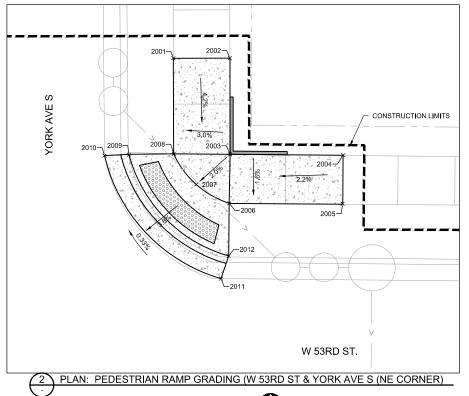






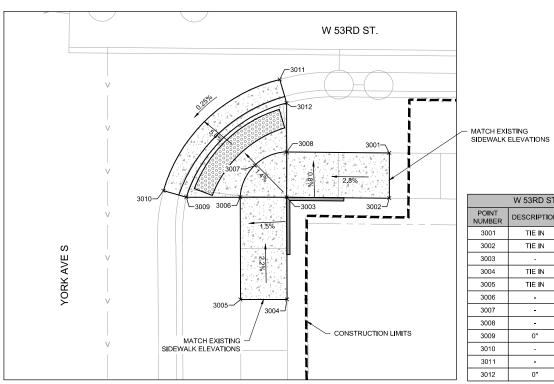
W 53RD ST & YORK AVE S (NW CORNER)									
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION					
1001	TIE IN	142305.95	516346.46	870.77					
1002	TIE IN	142301.03	516346.41	870.71					
1003	-	142300.92	516356.76	870.25					
1004	0"	142295.66	516356.77	870.01					
1005	-	142293.36	516357.32	870.03					
1006	-	142301.94	516360.93	870.24					
1007	-	142305.85	516356.74	870.35					
1008	-	142305.79	516362.83	870.24					
1009	0"	142305.74	516367.02	870.01					
1010	-	142305.02	516369.54	870.00					
1011	TIE IN	142317.08	516356.71	870.84					
1012	TIE IN	142317.08	516362.74	870.55					





W 53RD ST & YORK AVE S (NE CORNER)								
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION				
2001	TIE IN	142315.43	516405.39	870.40				
2002	TIE IN	142315.44	516411.28	870.63				
2003	-	142305.43	516411.30	870.18				
2004	TIE IN	142305.33	516423.07	870.44				
2005	TIE IN	142300.27	516423.03	870.35				
2006	-	142300.31	516411.21	870.10				
2007	-	142302.28	516407.77	870.08				
2008	-	142305.47	516405.42	870.00				
2009	0"	142305.38	516400.77	869.91				
2010	-	142305.29	516398.22	869.81				
2011	-	142292.48	516410.35	869.87				
2012	0"	142294.84	516411.15	869.99				



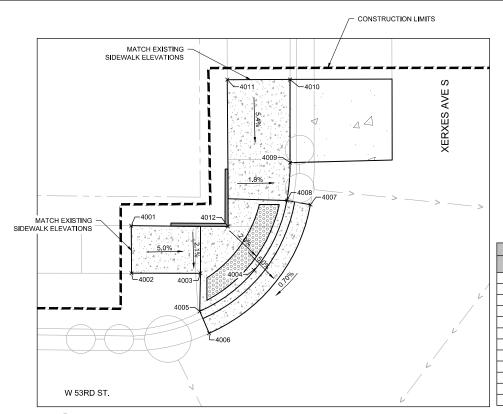


	W 53RD ST & YORK AVE S (SE CORNER)										
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION							
3001	TIE IN	142255.84	516422.32	870.71							
3002	TIE IN	142251.13	516422.32	870.86							
3003	=	142251.23	516411.62	870.55							
3004	TIE IN	142240.58	516411.67	870.78							
3005	TIE IN	142240.58	516406.82	870.70							
3006	-	142251.22	516406.80	870.48							
3007	-	142254.52	516408.29	870.49							
3008	-	142255.94	516411.63	870.56							
3009	0"	142251.22	516401.18	870.30							
3010	=-	142251.90	516398.80	870.23							
3011	-	142263.49	516410.91	870.27							
3012	0"	142261.04	516411.63	870.56							

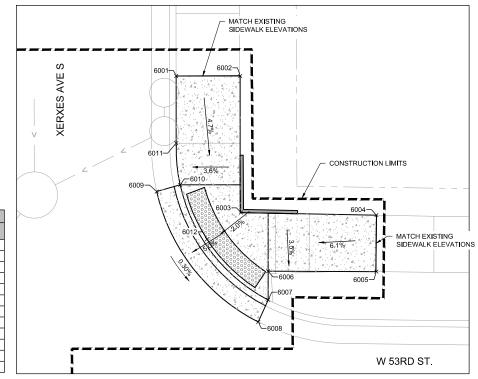
PLAN: PEDESTRIAN RAMP GRADING - W 53RD ST & YORK AVE S (SE CORNER)

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, X					I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT	CLIENT	07/22/24 10/18/24	01/13/25		Project Office:	Scale	AS SHOWN		53RD ST W & YORK AVE S FLOOD PROJECT	BARR PROJE	ECT No.	
Ĕ.	_	_			SUPERVISION AND THAT I AM A DULY LICENSED	PERMIT	12/06	3/24		BARR ENGINEERING CO.	Date	01/13/2025			23/2	27-2045	00 ز
<u> </u>	_	_	_		STATE OF MINNESOTA.	CONCEDUCTION					Drawn	EPF	CITY OF MINNEAPOLIS	MINNEAPOLIS, MN	CLIENT PRO	JECT No.	
₩ .	-	_	+		PRINTED NAME JENNIFER A. KOEHLER	CONSTRUCTION			PAR	SUITE 200 MINNEAPOLIS, MN 55435	Checked	PER	MININEADOLIO MININEOGTA		l cswo	392381	LUU
ä	$\overline{}$	-	+		PRINTED NAME JENNIFER A. ROEHLER		A B C	· D 0	1 2 Corporate Headqua		Designed	BADD	MINNEAPOLIS, MINNESOTA	PEDESTRIAN RAMP GRADING PLAN	DWG. No. IS		
8	10 01	OLUK AB	P DATE	REVISION DESCRIPTION	SIGNATURE	RELEASED		7 5 5	Minneapolis, Minnes	Fax: (952) 832-2601	Approved	DARK		(W 53RD ST & YORK AVE S)	1 1		
Ĩ.	NO. BT	СПК. АР	P. DATE	REVISION DESCRIPTION	DATELICENSE # 4/500	TO/FOR	DAT	E RELEASED	P11: 1-000-032-2277	www.barr.com	прргочец	JAK2		, , , , , , , , , , , , , , , , , , , ,	C-29	35/42	丄
٠Ľ	VO. BY	CHK. AP	P. DATE	REVISION DESCRIPTION	DATELICENSE #47500	TO/FOR	DAT	E RELEASED	Ph: 1-800-632-2277	www.barr.com	Approved	JAK2		(** ***********************************	C-29	35/42	

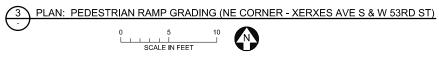


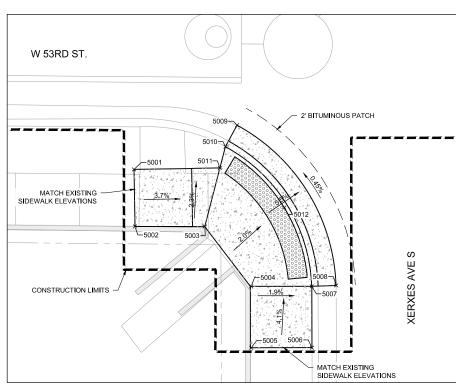
	W 53RD ST &	XERXES AVE	S (NW CORNER	₹)
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
4001	TIE IN	142302.91	516675.95	874.66
4002	TIE IN	142297.97	516675.98	874.57
4003	-	142297,97	516683,16	874.20
4004	-	142298.33	516688.70	874.07
4005	0"	142294.00	516683.08	874.12
4006	-	142291.71	516684.06	874.02
4007	-	142305.11	516694.62	874.15
4008	0"	142305.54	516692.16	874.25
4009	-	142309.48	516692.50	874.28
4010	TIE IN	142318.15	516692.49	874.78
4011	TIE IN	142318.12	516685.96	874.91
4012	-	142302.83	516686.02	874.15



W 53RD ST & XERXES AVE S (NE CORNER)										
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION						
6001	TIE IN	142316.62	516733.56	874.99						
6002	TIE IN	142316.62	516740.23	875.00						
6003	-	142302.39	516740.29	874.27						
6004	TIE IN	142302.12	516754.41	875.05						
6005	TIE IN	142296.24	516754.41	874.89						
6006	-	-	-	-	-	-	-	142296.28	516743.13	874.20
6007	0"	142293.29	516743.13	874.14						
6008	-	142291.00	516742.10	874.03						
6009	-	142304.58	516731.53	874.08						
6010	0"	142305.28	516733.97	874.19						
6011	-	142309.62	516733.56	874.99						
6012	-	142299.61	516736.76	874.17						







	W 53RD ST &	XERXES AVE S (SW CORNER)						
POINT NUMBER	. The scription i		EASTING	ELEVATION				
5001	TIE IN	142254.76	516674.31	874.44				
5002	TIE IN	142248.82	516674.41	874.59				
5003	=-	142248.80	516681.68	874.25				
5004	=-	142242.58	516686.52	874.20				
5005	TIE IN	142236.18	516686.52	874.51				
5006	TIE IN	142236.19	516692.84	874.50				
5007	0"	142242.58	516692.83	874.08				
5008	-	142242.67	516695.37	873.95				
5009	=	142259.36	516685.05	873.86				
5010	0"	142257.13	516683.84	874.10				
5011	=	142254.91	516683.26	874.14				
5012	-	142250.79	516689.96	873.97				

PLAN: PEDESTRIAN RAMP GRADING (SW CORNER - XERXES AVE S & W 53RD ST)

SCALE IN FEET

I HEREBY CERTIFY THA

REVISION DESCRIPTION

BARR

Corporate Headquarters:
Minnespota, Minnesota
Ph: 14800-632-2277

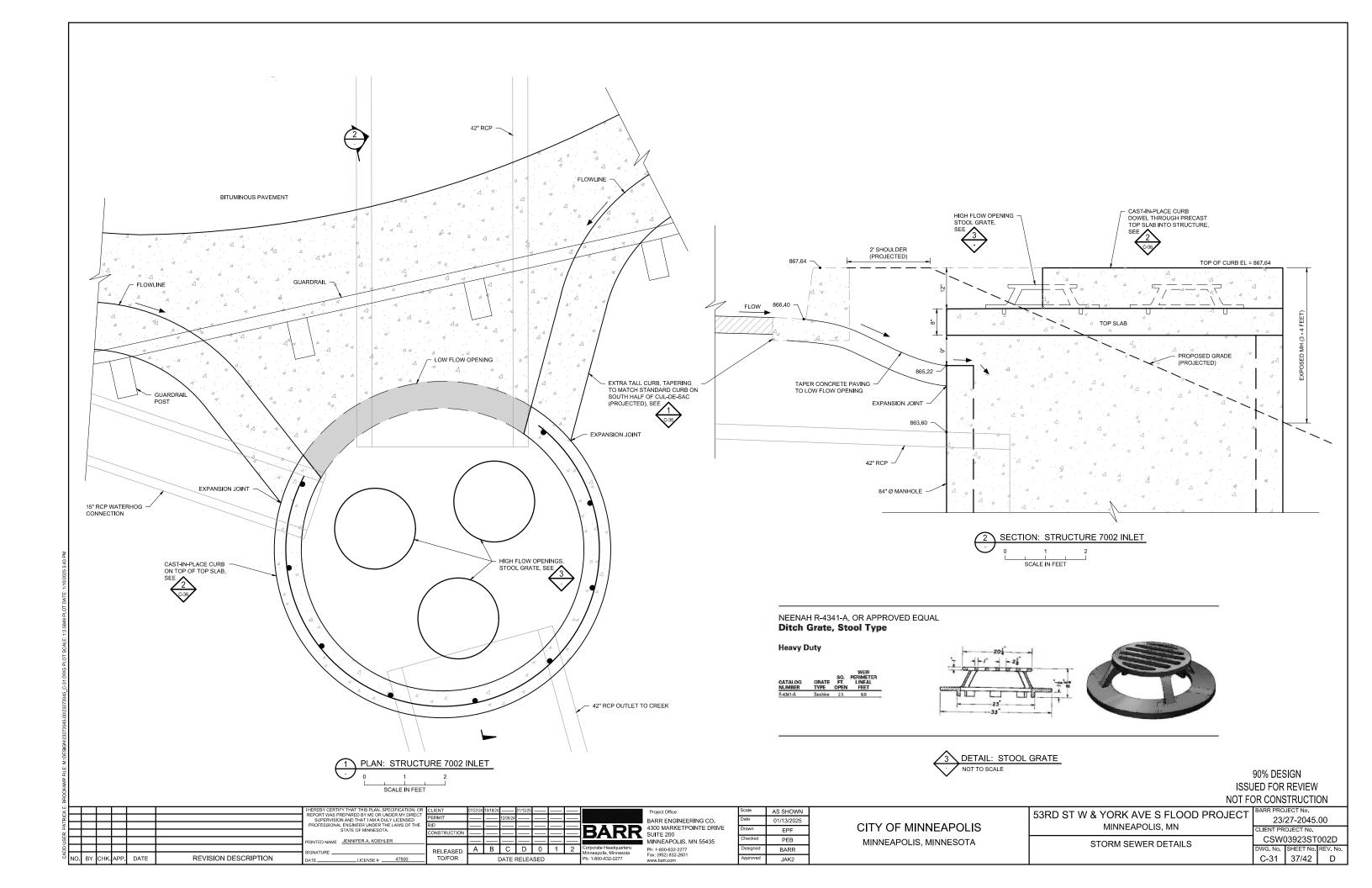
Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
Ph. 1-800-632-2277
Eav. (967-932-2674

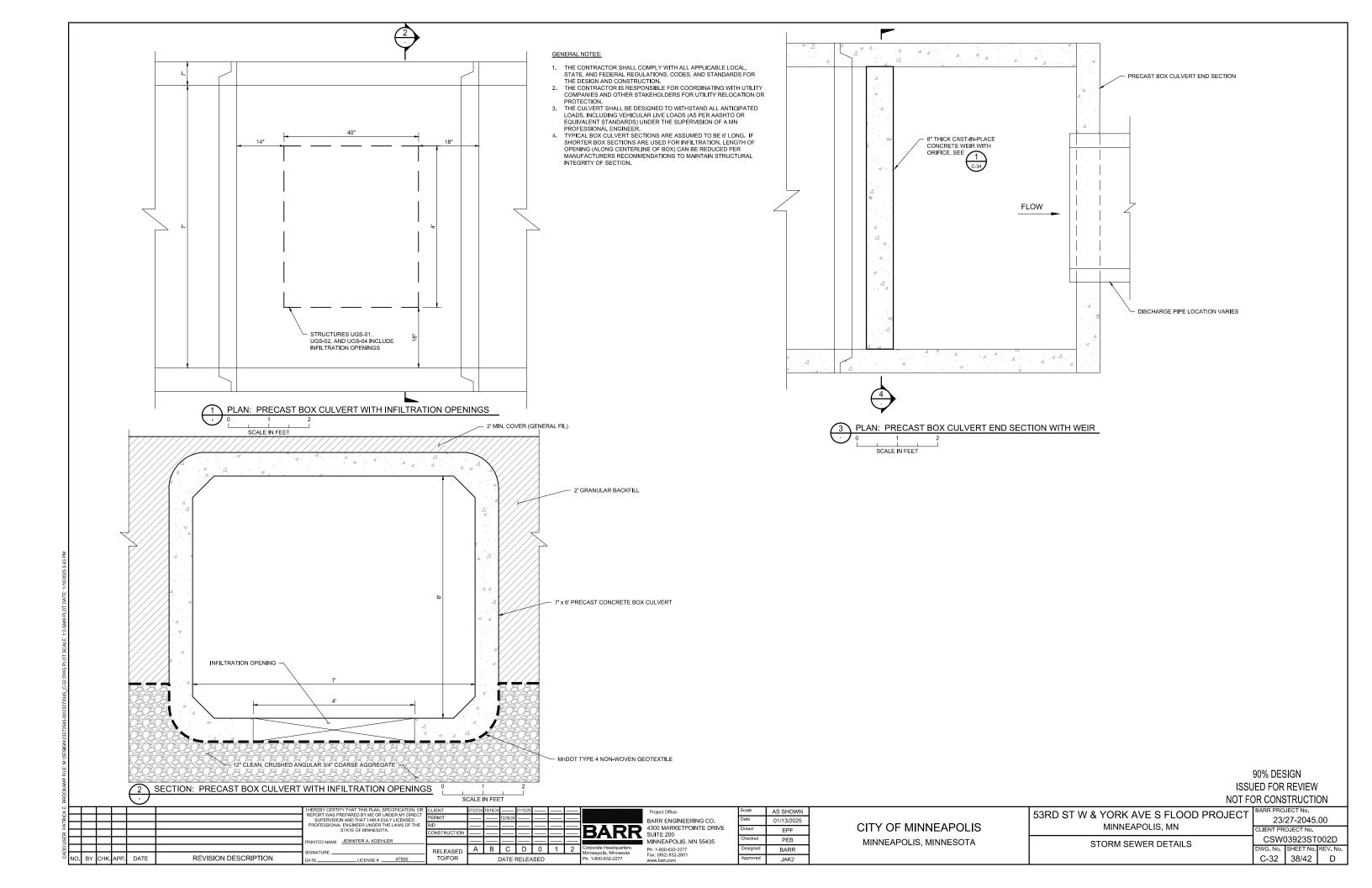
CITY OF MINNEAPOLIS
MINNEAPOLIS, MINNESOTA

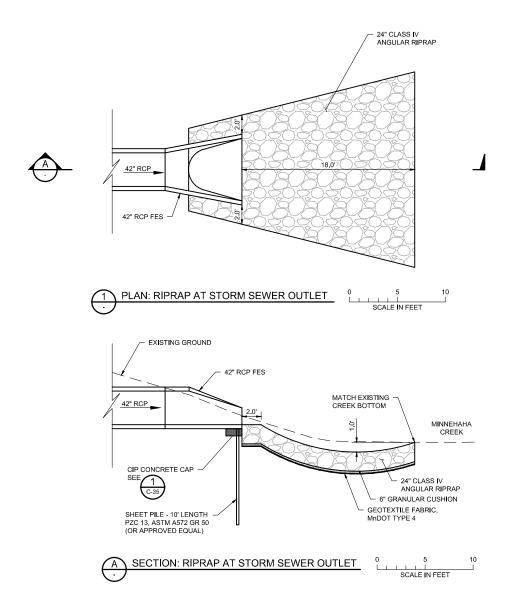
90% DESIGN
ISSUED FOR REVIEW
NOT FOR CONSTRUCTION

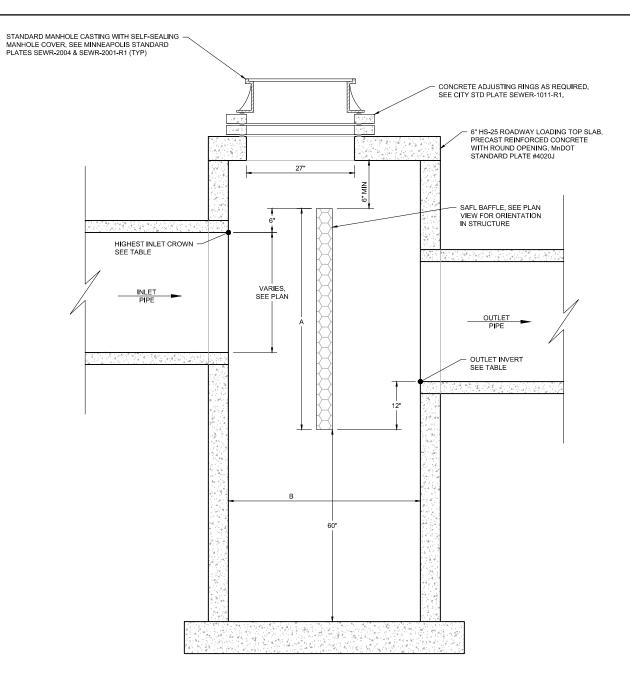
53RD ST W & YORK AVE S FLOOD PROJECT
MINNEAPOLIS MN

23/27-2045.00





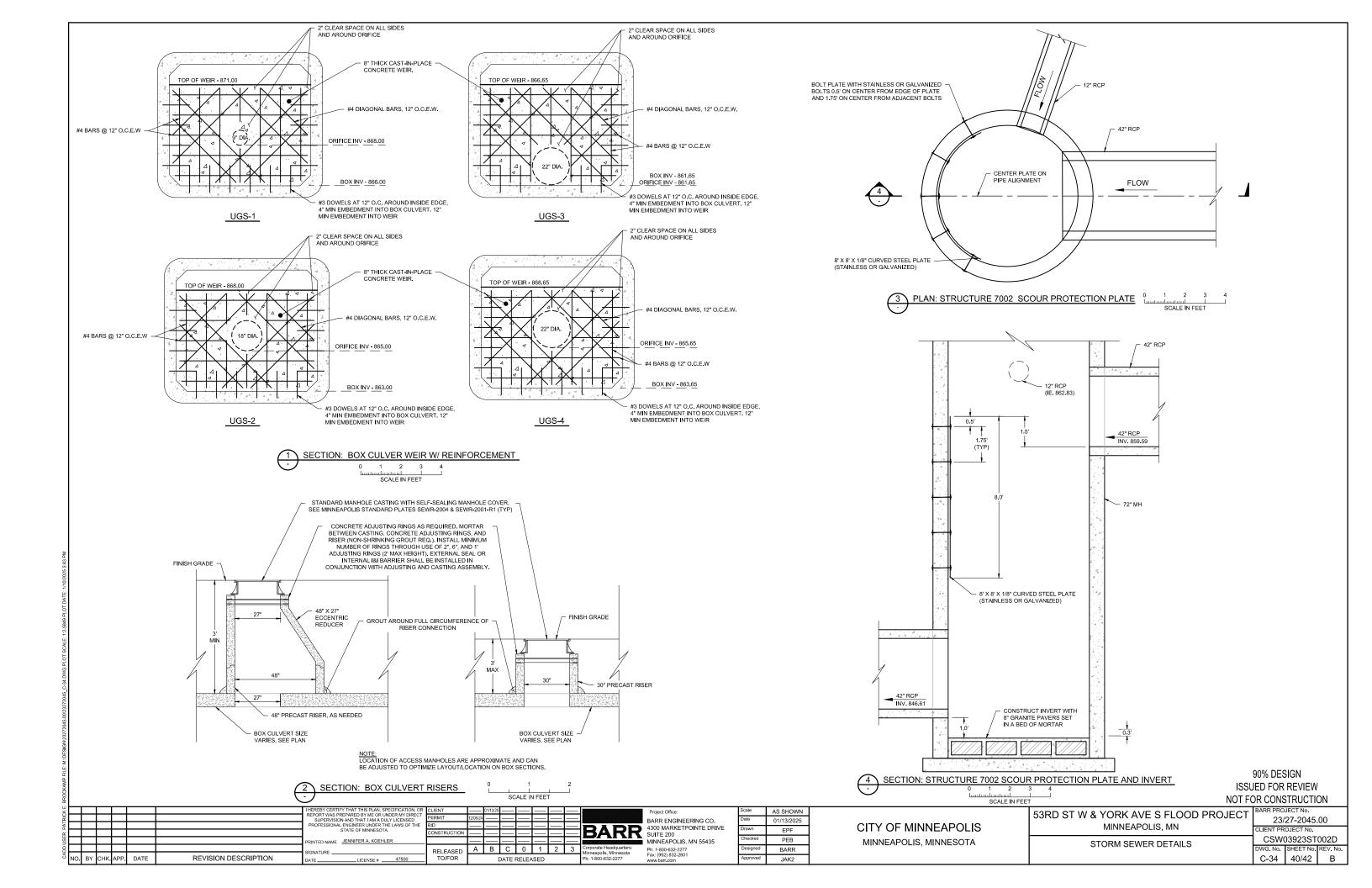


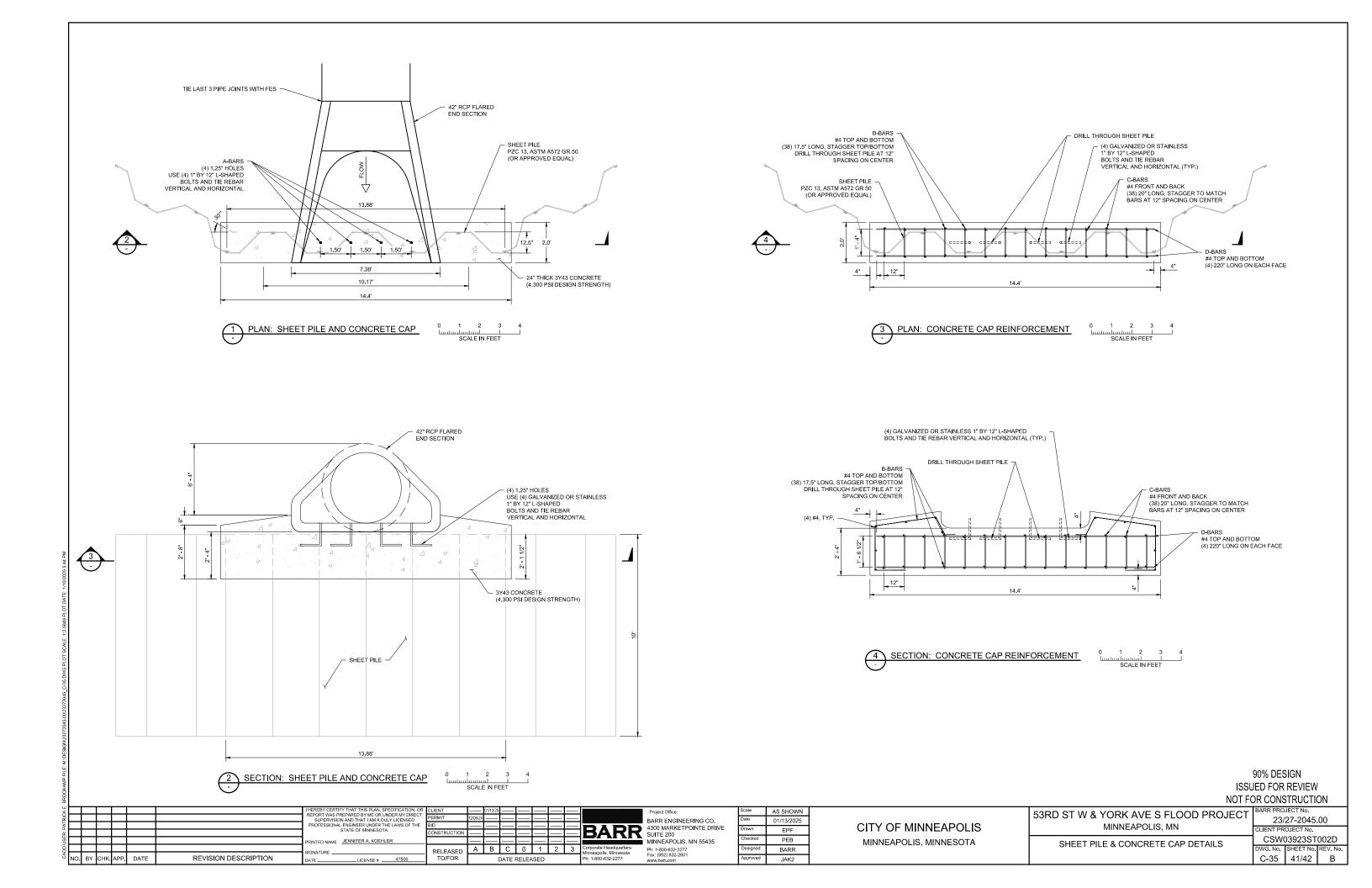


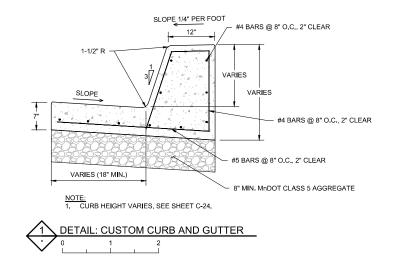
SAFL BAFFLE STRUCTURE TABLE										
STRUCTURE	A	В	INLET CROWN	OUTLET INV.	SAFL BAFFLE SIZE (W x H)					
7012	30"	60"	875.70	874.70	60" x 36"					
7017	52"	72"	869.06	866.25	72" x 57"					
7022	57"	72"	866.72	863.44	72" x 57"					
7033	33"	48"	866.56	865.31	48" x 36"					
7045	57"	72"	869.91	866.66	72" x 57"					

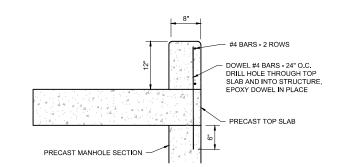


% _	\vdash				I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT	CLIENT	01/13/25 —	_ _ _			Project Office:	Scale	AS SHOWN		53RD ST W & YORK AVE S FLOOD PROJECT	BARR PROJECT No.
Ē.	+	-	+ +		SUPERVISION AND THAT I AM A DULY LICENSED	PERMIT	12/06/24	_ _			BARR ENGINEERING CO.	Date	01/13/2025			23/27-2045.00
ā -	+	-	+ +		STATE OF MINNESOTA.	CONSTRUCTION	,		+-+	RAPE	4300 MARKETPOINTE DRIVE	Drawn	EPF	CITY OF MINNEAPOLIS	MINNEAPOLIS, MN	CLIENT PROJECT No.
ii l	1 1	_			PRINTED NAME JENNIFER A. KOEHLER	001101111001101	` _ 		1	DAIN	SUITE 200 MINNEAPOLIS, MN 55435	Checked	PEB	MINNEAPOLIS, MINNESOTA	STORM SEWER DETAILS	CSW03923ST002E
9					SIGNATURE	RELEASED	A B	C 0 1	2 3	Corporate Headquarters:	Ph: 1-800-632-2277 Fax: (952) 832-2601	Designed	BARR	Williams a Selet Williams Selet Williams	STORINI SEWER DETAILS	DWG. No. SHEET No. REV.
δN	BY C	HK. APF	P. DATE	REVISION DESCRIPTION	DATELICENSE # 47500	TO/FOR	DA	TE RELEASED)	Ph: 1-800-632-2277	Fax: (952) 832-2601 www.barr.com	Approved	JAK2			C-33 39/42 B

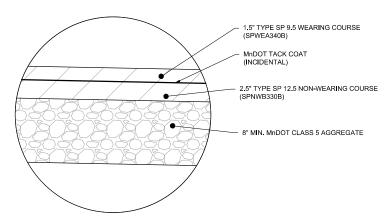








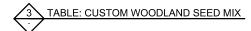
2 DETAIL: CURB ON TOP OF CONCRETE SLAB



3 SECTION: BITUMINOUS ROAD (TYP.)
NOT TO SCALE

YORK AVE COVER CROP								
COMMON NAME	BOTANIC NAME	RATE (LB/AC)	% OF MIX (% BY WT)					
Oats	Avena sativa	30.00	100.0%					
	Total Cover Crop	30.00	100%					

	YORK AVE WOODLAND		1
COMMON NAME	BOTANIC NAME	RATE (LB/AC)	% OF MIX (% BY WT
Kalm's Brome	Bromus kalmii	1.75	8.7%
Hairy Wood Chess	Bromus pubescens	1.50	7.5%
Beak Grass	Diarrhena americana	1.50	7.5%
Bottlebrush Grass	Elymus hystrix	0.75	3.7%
Riverbank Wild Rye	Elymus riparius	1.50	7.5%
Silky Wild Rye	Elymus villosus	1.00	5.0%
Virginia Wild Rye	Elymus virginicus	1.00	5.0%
Nodding Fescue	Festuca subverticillata	1.25	6.2%
Fowl Manna Grass	Glyceria striata	0.75	3.7%
	Grasses Subtotal	11.00	55%
Common Wood Sedge	Carex blanda	0.03	0.1%
Plains Oval Sedge	Carex brevior	0.05	0.2%
Graceful Sedge	Carex gracillima	0.05	0.2%
Common Bur Sedge	Carex grayi	0.30	1.5%
Wood Gray Sedge	Carex grisea	0.25	1.2%
Field Oval Sedge	Carex molesta	0.05	0.2%
Palm Sedge	Carex muskingumensis	0.03	0.1%
Long-beaked Sedge	Carex sprengelii	0.10	0.5%
Path Rush	Juncus tenuis	0.16	0.8%
rain Kusn	Sedges & Rushes Subtotal	1.02	5%
Red Baneberry	1	0.13	0.6%
	Actaea rubra Ageratina altissima	0.13	0.1%
White Snakeroot	-		
Canada Anemone	Anemone canadensis	0.25	1.2%
Tall Thimbleweed	Anemone virginiana	0.05	0.2%
Columbine	Aquilegia canadensis	0.04	0.2%
Jack-In-The-Pulpit	Arisaema triphyllum	1.50	7.5%
Wild Ginger	Asarum canadense	0.13	0.6%
Poke Milkweed	Asclepias exaltata	0.13	0.6%
Tall Bellflower	Campanula americana	0.13	0.6%
Blue Cohosh	Caulophyllum thalictroides	0.40	2.0%
Dutchman's Breeches	Dicentra cucullaria	0.08	0.4%
Big-leaved Aster	Eurybia macrophylla	0.10	0.5%
Wild Geranium	Geranium maculatum	0.50	2.5%
Woodland Sunflower	Helianthus divaricatus	0.60	3.0%
Virginia Waterleaf	Hydrophyllum virginianum	0.40	2.0%
Spotted Touch Me Not	Impatiens capensis	0.10	0.5%
Sweet Cicely	Osmorhiza claytonii	0.30	1.5%
Woodland Phlox	Phlox divaricata	0.60	3.0%
Solomon's Seal	Polygonatum biflorum	0.50	2.5%
Virginia mountain mint	Pycnanthemum virginianum	0.08	0.4%
Cutleaf Coneflower	Rudbeckia laciniata	0.70	3.5%
Solomon's Plume	Maianthemum racemosa	1.00	5.0%
Zig Zag Goldenrod	Solidago flexicaulis	0.13	0.6%
Elm-leaved Goldenrod	Solidago ulmifolia	0.02	0.1%
Heart-leaved Aster	Symphyotrichum cordifolium	0.08	0.4%
Calico Aster	Symphyotrichum lateriflorus	0.05	0.2%
White Vervain	Verbena urticifolia	0.10	0.5%
	Forbs Subtotal	8.10	40%



90% DESIGN ISSUED FOR REVIEW NOT FOR CONSTRUCTION

EREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR EPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE AS SHOWN BARR PROJECT No. Project Office: 53RD ST W & YORK AVE S FLOOD PROJECT BARR ENGINEERING CO. 01/13/2015 23/27-2045.00 CITY OF MINNEAPOLIS MINNEAPOLIS, MN BARR 4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435 EPF LIENT PROJECT No. STATE OF MINNESOTA. CSW03923ST002D PEB MINNEAPOLIS, MINNESOTA RINTED NAME JENNIFER A. KOEHLER PAVING & RESTORATION DETAILS BARR DWG. No. SHEET No. REV. No. RELEASED TO/FOR REVISION DESCRIPTION C-36 42/42 B LICENSE # 47500