



ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

763-324-3176

highwaypermits@co.anoka.mn.us

**RIGHT OF WAY
PERMIT NUMBER
23-201**

CSAH 56

CR

**APPLICATION FOR PERMIT FOR INSTALLATION OF UTILITIES OR PLACING OBSTRUCTIONS ON THE COUNTY HIGHWAY SYSTEM
ALL APPLICANTS MUST BE REGISTERED PRIOR TO PERMIT APPROVAL**

WORK TO START ON xxxxxxxx 05/02/2023

WORK TO BE COMPLETED ON xxxxxxxxxxxx 11/02/2023

DURATION OF JOB

ARE YOU BEING ASKED TO RELOCATE DUE TO A COUNTY PROJECT?

ANOKA COUNTY PROJECT NUMBER

APPLICANT NAME

CONTACT PERSON

ADDRESS

CITY

PHONE NUMBER

EMAIL

COMPANY OR INDIVIDUAL PERFORMING WORK

CONTACT PERSON

PHONE NUMBER

EMAIL

ADDRESS OF WORK SITE

CITY

NATURE OF WORK

METHOD OF INSTALLATION/CONSTRUCTION

SURFACE TO BE DISTURBED

SITE PLAN

WILL TRAFFIC BE OBSTRUCTED?

TRAFFIC CONTROL PLAN

DITCH

TO BE
SUBMITTED
VIA EMAIL

TO BE
SUBMITTED
VIA EMAIL

GRAVEL

BITUMINOUS

CONCRETE

NONE

DEPTH FROM SURFACE

SIZE AND KIND OF PIPE/CABLE

NUMBER OF EXCAVATIONS

SIZE OF EXCAVATIONS

LOCATION OF EXCAVATIONS

ADDITIONAL DOCUMENTS

TO BE SUBMITTED VIA EMAIL - CITY/MNDOT PERMITS, PHOTOS OF AREA, ETC.

*THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY
ACHD reserves the right to make changes to these special conditions.*



Anoka County

MINNESOTA

Respectful. Innovative. Fiscally Responsible

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GENERAL INFORMATION

ONE PERMIT MUST BE APPROVED FOR EACH COUNTY ROAD ON WHICH WORK WILL BE PERFORMED PRIOR TO ANY WORK WITHIN THE RIGHT OF WAY BY ANY UTILITY/CONTRACTOR. EMERGENCY CONDITIONS WHICH THREATEN THE SAFETY OF THE PUBLIC AND REQUIRE IMMEDIATE REPAIR ARE EXCEPTIONS TO THIS RULE. UNDER THOSE CIRCUMSTANCES, THE UTILITY/CONTRACTOR, IS PERMITTED TO BEGIN AND/OR COMPLETE THE NECESSARY REPAIRS. ACTD SHALL BE NOTIFIED OF EMERGENCY REPAIRS AS SOON AS FEASIBLE AND A WRITTEN PERMIT IS TO BE COMPLETED WITHIN TWO BUSINESS DAYS OF OCCURRENCE.

A LICENSE-PERMIT BOND IS GENERALLY REQUIRED OF THE CONTRACTOR AS PART OF THE REGISTRATION PROCESS. THE AMOUNT OF WHICH WILL BE DETERMINED BY THE NATURE OF THE UTILITY WORK.

A SKETCH OR DRAWING SHALL ACCOMPANY EACH PERMIT APPLICATION WHICH WILL SHOW THE LOCATION OF THE PROPOSED WORK/UTILITY WITH REFERENCE TO THE COUNTY HIGHWAY CENTER LINE AND RIGHT OF WAY LINE. A COMPLETE SET OF PLANS IS REQUIRED FOR ALL SEWER/WATER PROJECTS.

IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO DETERMINE WHICH OF THE SPECIAL CONDITIONS APPLY TO EACH PERMIT.

THE ANOKA COUNTY TRANSPORTATION DIVISION (ACTD) RESERVES THE RIGHT TO REVOKE ANY UTILITY PERMIT AND HALT WORK, IF, UPON INSPECTION OF ANY JOB SITE, THE SPECIAL CONDITIONS ARE NOT MET, AND/OR A HAZARD EXISTS FOR THE APPLICANT OR PUBLIC SAFETY IS THREATENED. **THE FAILURE TO COMPLY WITH THE TERMS AND CONDITIONS OF ANY APPLICABLE FEDERAL, STATE, REGIONAL, AND LOCAL LAWS, RULES AND REGULATIONS, INCLUDING ANY PROVISION OF ANOKA COUNTY'S RIGHT-OF-WAY ORDINANCE SHALL BE CAUSE FOR IMMEDIATE REVOCATION OF A PERMIT.**

THE APPLICANT SHALL NOTIFY ACTD IMMEDIATELY UPON COMPLETION OF PROJECT SO THAT THE ACTD CAN INSPECT THE SITE TO DETERMINE WHETHER OR NOT RESTORATION HAS BEEN SATISFACTORILY COMPLETED.

THE UNDERSIGNED, HEREBY ACCEPTS THE TERMS AND CONDITIONS OF THIS PERMIT AND THE REGULATIONS OF ANOKA COUNTY, AND AGREES TO FULLY COMPLY THEREWITH TO THE SATISFACTION OF THE ACTD. THE COUNTY OF ANOKA, ITS OFFICIALS, EMPLOYEES, AND AGENTS, SHALL BE HELD HARMLESS, BY THE APPLICANT/PERMITTEE, FROM ANY DEMANDS, CLAIMS, LAWSUITS, OR DAMAGES RELATING TO THE WORK DESCRIBED IN THIS PERMIT.

APPLICANT'S SIGNATURE *Luke Bastil*

DATE

AUTHORIZATION OF PERMIT

IN CONSIDERATION OF THE APPLICANT'S AGREEMENT TO COMPLY IN ALL RESPECTS WITH THE REGULATIONS OF THE ACTD COVERING SUCH OPERATIONS, PERMISSION IS HEREBY GRANTED FOR THE WORK TO BE DONE AS DESCRIBED IN THE ABOVE APPLICATION. SAID WORK TO BE DONE IN ACCORDANCE WITH THE GENERAL CONDITIONS LISTED ABOVE AND THE SPECIAL CONDITIONS REQUIRED AS HEREBY STATED. IT IS EXPRESSLY UNDERSTOOD THAT THIS PERMIT IS CONDITIONED UPON REPLACEMENT OR RESTORATION OF THE COUNTY HIGHWAY AND ITS RIGHT OF WAY TO THEIR ORIGINAL OR TO A SATISFACTORY CONDITION. IT IS FURTHER UNDERSTOOD THAT THIS PERMIT IS ISSUED SUBJECT TO THE APPROVAL OF LOCAL CITY OR TOWNSHIP AUTHORITIES HAVING JOINT SUPERVISION OVER SAID STREET OR HIGHWAY.

APPROVED BY: *Susan Burgmeier*

DATE

TITLE: *Associate Traffic Technician*

05/03/2023

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SPECIAL CONDITIONS

TRAFFIC CONTROL

- 1) DETOURS
 - a) DETAILED DETOUR LAYOUTS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEER FOR APPROVAL.
 - b) NO DETOURS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ANOKA COUNTY TRAFFIC ENGINEER.
 - c) TEN DAYS NOTICE MUST BE GIVEN PRIOR TO THE INSTALLATION OF ANY DETOUR.
 - d) IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO NOTIFY ANOKA COUNTY CENTRAL COMMUNICATIONS, LOCAL GOVERNMENT BODIES, AND ANY AFFECTED BUS COMPANIES TEN DAYS PRIOR TO ANY ROAD CLOSURES/DETOURS.
 - e) IMMEDIATELY UPON COMPLETION OF WORK AND/OR DETOURS, ALL POSTS, BARRICADES, AND SIGNS SHALL BE REMOVED FROM THE RIGHT OF WAY.
- 2) TRAFFIC CONTROL DEVICES
 - a) ALL TRAFFIC CONTROL DEVICES, BARRICADES, FLASHERS, ETC., SHALL BE FURNISHED BY THE APPLICANT AND SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS – FIELD MANUAL OF THE SAME MANUAL.

CONSTRUCTION REQUIREMENTS

- 1) OPEN CUTTING OF BITUMINOUS OR CONCRETE SURFACED ROADS WILL BE ALLOWED ONLY AT THE DISCRETION OF THE COUNTY ENGINEER.
- 2) NEITHER SUPPLIES NOR EXCAVATION MATERIALS SHALL BE PLACED ON THE BITUMINOUS OR CONCRETE SURFACE AT ANY TIME.
- 3) NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
- 4) MATERIALS REMOVED FROM THE TRENCH SHALL BE USED AS BACKFILL INSOFAR AS THEY ARE SUITABLE. ALL BACKFILL MATERIAL SHALL CONFORM TO MNDOT SPECIFICATIONS FOR COMPACTION. THE USE OF HEAVY EQUIPMENT ON TOP OF TRENCH, SLAPPING WITH BACKHOE BUCKET AND/OR BACKCASTING TO ACHIEVE COMPACTION IS PROHIBITED. ANY ADDITIONAL MATERIAL REQUIRED TO BACK FILL TO THE ORIGINAL GRADE SHALL BE FURNISHED BY THE APPLICANT AT NO EXPENSE TO THE ACTD. ALL THE BASE AND SURFACE COURSES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN BEFORE OPERATIONS BEGAN. THE APPLICANT SHALL BE RESPONSIBLE FOR AND RESTORE ANY SETTLEMENT.
- 5) ALL CULVERTS, DITCHES, SHOULDERS, AND BACKSLOPES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE DIRECTED BY THE ACTD. SHOULDERS WHICH HAVE BEEN PREVIOUSLY CONSTRUCTED OR RECONSTRUCTED WITH SPECIAL MATERIALS SHALL BE REPLACED IN KIND. RESTORATION OF SIGNS, GUARDRAILS, GUARDPOSTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE APPLICANT AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- 6) ALL ROADWAY MAINTENANCE REQUIRED WITHIN THE LIMITS OF THE UTILITY PROJECT THAT IS RELATED TO THE APPLICANT'S ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT FOR ONE YEAR AFTER COMPLETION OF THE PROJECT. UPON COMPLETION OF THE RESTORATION WORK, THE APPLICANT SHALL REQUEST A FINAL INSPECTION BY THE ACTD. THE ACTD'S APPROVED COMPLETION DATE SHALL BE THE STARTING DATE OF THE APPLICANT'S ONE YEAR RESPONSIBILITY.

HORIZONTAL BORING AND JACKING

- 1) ALL HARD SURFACE ROADWAYS SHALL BE JACKED OR BORED.
- 2) ALL CROSSINGS OF ANOKA COUNTY MAINTAINED ROADBEDS SHALL BE MADE BY BORING INSIDE A CASING OR CARRIER PIPE, OR BY JACKING UNLESS OTHERWISE DIRECTED BY THE ANOKA COUNTY ENGINEER. THE AUGER SHALL LAD THE CASING OR CARRIER PIPE BY AT LEAST SIX INCHES WHENEVER POSSIBLE AND NEVER LEAD THE CARRIER PIPE BY MORE THAN ONE INCH.
- 3) THE USE OF PNEUMATIC DEVICES TO FACILITATE THE ROADBED CROSSINGS WILL BE ALLOWED IN MOST CASES WITH PRIOR APPROVAL. IN THE EVENT APPROVAL IS NOT GRANTED AND APPLICANT USES A PNEUMATIC DEVICE TO CROSS A ROADBED AND ENCOUNTERS AN OBSTRUCTION AND/OR UNSTABLE SUBBASE MATERIAL WHICH MAKES FORWARD OR REVERSE MOTION OF PNEUMATIC DEVICE IMPOSSIBLE, SAID PNEUMATIC DEVICE THEN BECOMES PART OF THE ROADWAY SUBBASE AND PERMISSION TO EXCAVATE TO RETRIEVE DEVICE WILL NOT BE GRANTED.
- 4) IF A PNEUMATIC DEVICE IS USED FOR THE WORK PERMITTED HEREIN, THE INSTALLATION MUST BE KEPT TO A MINIMUM OF FOUR FEET BELOW THE SURFACE OF THE ROADWAY IF THE PNEUMATIC DEVICE IS LESS THAN TWO INCHES IN DIAMETER, AND A MINIMUM OF FIVE FEET BELOW THE SURFACE OF THE ROADWAY IF THE PNEUMATIC DEVICE IS TWO INCHES IN DIAMETER OR LARGER.

BITUMINOUS RESTORATION

- 1) THE LOCATIONS AND DIMENSIONS OF ALL OPENINGS TO BE MADE IN THE BITUNINOUS SUFACE SHALL BE APPROVED BY THE ACTD PRIOR TO ANY CUTTING OR ANY SURFACE OPENING OPERATIONS.
- 2) ALL OPENINGS IN BITUMINOUS SURFACES SHALL BE CUT IN A STRAIGHT LINE WITH THE SIDES SMOOTH AND VERTICAL. NO RAGGED EDGES WILL BE PERMITTED. CUTTING SHALL BE DONE WITH A CONCRETE SAW.
- 3) ALL NECESSARY DUST CONTROL OPERATIONS SHALL BE CARRIED OUT BY THE APPLICANT AT NO EXPENSE TO ANOKA COUNTY.
- 4) THE MINIMUM REQUIREMENT FOR SUBGRADE REPLACEMENT SHALL BE THE UPPER TWELVE INCHES OF MATERIAL AND SHALL MEET MNDOT SPECIFICATIONS FOR CLASS FIVE PLACED IN SIX INCH LAYERS COMPACTED TO ONE HUNDRED PERCENT OF OPTIMUM DENSITY.
- 5) ALL MANHOLE CASINGS, GATE VALVES, AND OTHER UTILITY STRUCTURES SHALL BE SET ONE QUARTER INCH BELOW THE TOP OF THE FINISHED SURFACE.
- 6) BITUMINOUS TACK COAT MATERIALS AND APPLICATION THEREOF SHALL CONFORM TO MNDOT SPECIFICATION 2357.
- 7) ALL BITUMINOUS SURFACING SHALL BE REPLACED AS SOON AS PRACTICAL AFTER THE BASE CONSTRUCTION. ALL BITUMINOUS SURFACING SHALL BE MACHINE LAID. ANY EXCEPTIONS MUST BE APPROVED BY THE ACTD. BITUMINOUS SURFACING SHALL BE REPLACED TO ORIGINAL PAVEMENT DEPTH OR TO A MINIMUM OF SIX INCHES OF BITUMINOUS MIXTURE (2360), WHICHEVER IS GREATER. BITUMINOUS MIXTURES MUST BE PLACED IN LIFTS NOT EXCEEDING THREE INCHES IN THICKNESS FOR BASE AND BINDER COURSES AND NOT EXCEEDING TWO INCHES FOR THE WEAR COURSE.
- 8) ALL SURFACE RESTORATION REGARDLESS OF SIZE SHALL CONFORM TO EXISTING GRADES.
- 9) ANY UNNECESSARY OR NEGLIGENT DAMAGE TO BITUMINOUS SURFACE IN CONJUNCTION WITH THE INSTALLATION AND/OR REPAIR OF A UTILITY SHALL BE CUT OUT AND REPLACED IN KIND AS DIRECTED BY THE ACTD.

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CONCRETE RESTORATION

- 1) CURB AND GUTTER, SIDEWALKS, AND DRIVEWAYS SHALL BE RESTORED IN ACCORDANCE WITH MNDOT SPECIFICATIONS 2531 AND 2521.

UTILITY LINES

- 1) THERE SHALL BE ONLY A SINGLE POLE LINE ON THE COUNTY RIGHT OF WAY ON EITHER SIDE OF THE CENTER LINE THEREOF.
- 2) EXACT LOCATIONS OF LONGITUDINAL INSTALLATIONS ON COUNTY HIGHWAYS SHALL BE LOCATED AS DIRECTED BY THE ACTD.

SECTION CORNER MONUMENTS

- 1) UTILITY LOCATIONS SHALL NOT INTERFERE WITH THE LOCATION OF ANY SECTION, QUARTER, WITNESS, OR RIGHT OF WAY MONUMENTS. FOR ASSISTANCE IN LOCATIONS, CONTACT THE ANOKA COUNTY SURVEYOR'S OFFICE.
- 2) THE APPLICANT SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING PROPERTY IRONS DISTURBED DURING CONSTRUCTION.
- 3) THE APPLICANT SHALL NOTIFY THE ANOKA COUNTY SURVEYOR'S OFFICE THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED DISTURBANCE OF ANY SECTION, QUARTER, WITNESS, OR RIGHT OF WAY MONUMENTS.
- 4) ANY MONUMENT DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE RESET BY THE ANOKA COUNTY SURVEYOR'S OFFICE AT THE EXPENSE OF THE APPLICANT.

ATTACHING TO BRIDGES/STRUCTURES

- 1) NO UTILITY IS PERMITTED TO BE HUNG FROM, OR OTHERWISE ATTACHED TO ANY BRIDGE OR STRUCTURE WITHOUT HAVING DETAILED PLANS APPROVED BY THE ANOKA COUNTY ENGINEER. THESE PLANS ARE TO SHOW APPROACHES TO THE STRUCTURE, METHOD OF INSTALLATION, TYPE, AND DIMENSION OF HOUSING FOR THE UTILITY.

INITIAL

Comcast relocation and removals shown on Drainage Plan pages.

Prepared by:

Luke Bastil
Construction Specialist
luke_bastil@comcast.com
651-262-6600

MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS SURFACING, ADA IMPROVEMENTS, RETAINING WALLS,
NOISE WALLS, HIGH TENSION CABLE GUARDRAIL, TMS, LIGHTING,
ROUNDBABOUTS, AND BRIDGES #02061, #02062, #02591, #02592

LOCATED ON T.H. 10 FROM 0.37 MILES EAST OF ARMSTRONG BLVD (C.S.A.H. 83) TO 0.57 MILES EAST OF SUNFISH LAKE BLVD (C.S.A.H. 57)
LOCATED ON C.S.A.H. 56 FROM 0.02 MILES SOUTH OF T.H. 10/169 TO 0.40 MILES SOUTH OF BUNKER LAKE BLVD (C.S.A.H. 116)
LOCATED ON C.S.A.H. 57 FROM T.H. 10/169 TO 0.11 MILES SOUTH OF BUNKER LAKE BLVD (C.S.A.H. 116)
LOCATED ON RIVERDALE DR FROM 0.15 MILES WEST OF RAMSEY BLVD TO 0.13 MILES EAST OF RAMSEY BLVD
LOCATED ON SUNFISH LAKE BLVD FROM RIVERDALE DR TO T.H. 10

Minn PROJ. NO. NHFP-STBG 0010(340)

GOVERNING SPECIFICATIONS

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

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

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XS1-XS373	CROSS-SECTIONS

THIS PLAN CONTAINS 1,263 SHEETS



12224 NICOLLET AVENUE
BURNSVILLE, MINNESOTA 55337
Phone: (952) 890-0509
Email: Burnsville@bolton-menk.com
www.bolton-menk.com

I HEREBY CERTIFY THAT THIS PLAN 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.

PRINT NAME: XXXXXX LICENSE # XXXXX

DATE: XX-XX-XXXX SIGNATURE:

RECOMMENDED FOR APPROVAL 20
ANOKA COUNTY ENGINEER

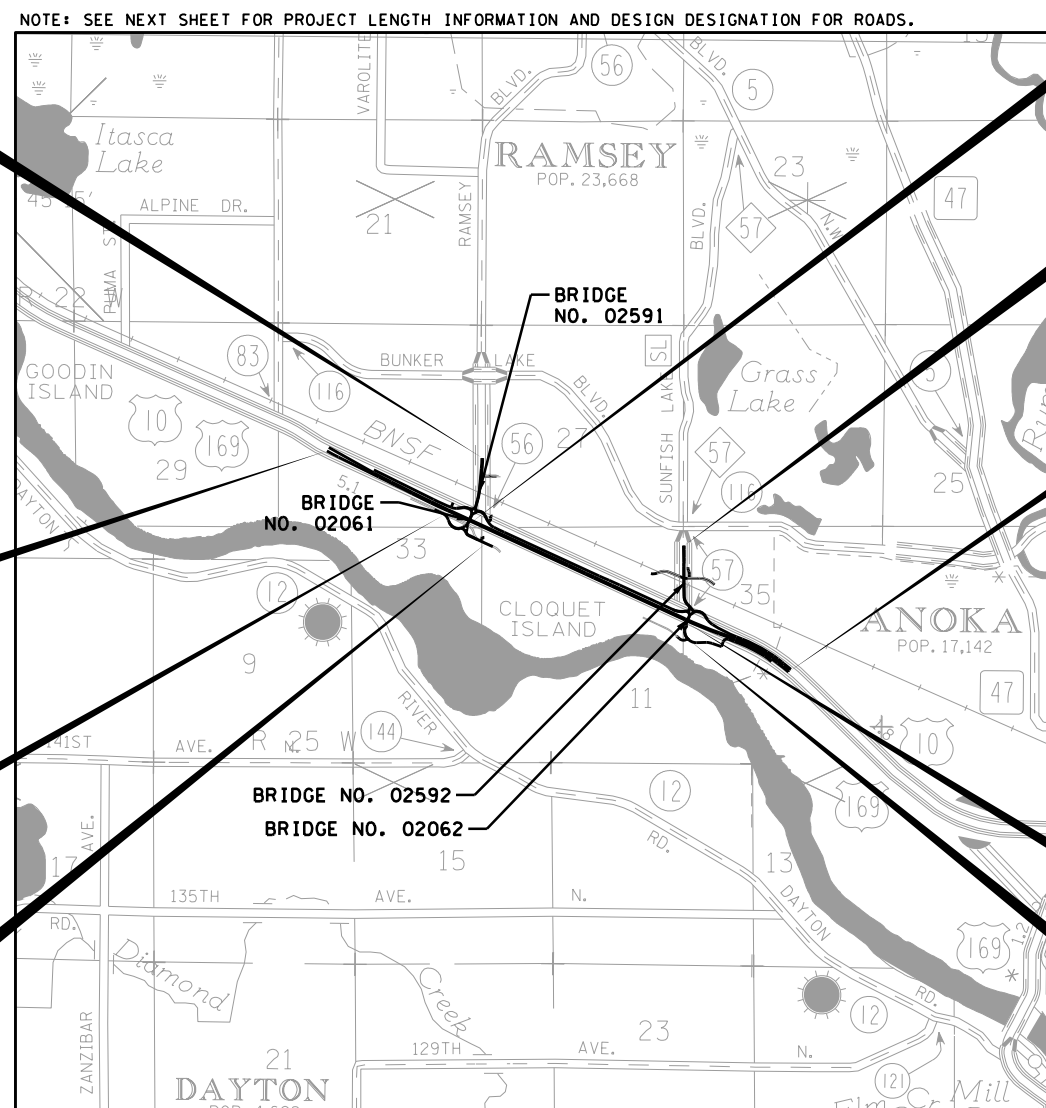
RECOMMENDED FOR APPROVAL 20
CITY OF RAMSEY CITY ENGINEER

OFFICE OF LAND MANAGEMENT APPROVAL 20
DIRECTOR, LAND MANAGEMENT

APPROVED 20
STATE DESIGN ENGINEER

..... 20
DISTRICT STATE AID ENGINEER REVIEWED FOR COMPLIANCE WITH STATE AID AND/OR FEDERAL AID RULES/POLICY

..... 20
STATE AID ENGINEER APPROVED FOR STATE AID AND FEDERAL AID FUNDING



BEGIN S.P. 002-656-001
RAMSEY BLVD NB
(CSAH 56 NB)
STA 100+47.79

SUNFISH LAKE BLVD NB
(CSAH 57 NB)
STA 226+42.02
END S.P. 002-657-003

END S.P. 0202-116,
S.P. 002-596-026
TH 10/169 EB
STA 605+46.10

SUNFISH LAKE BLVD NB
(CSAH 57 NB)
STA 205+01.40
BEGIN S.P. 002-657-003
END S.P. 199-113-003

BEGIN S.P. 199-113-003
SUNFISH LAKE BLVD NB
STA 200+00.00

RAMSEY BLVD NB
(CSAH 56 NB)
STA 119+06.98
END S.P. 002-656-001

TH10/169 EB EQUATIONS:
475+37.78(BK)=475+29.92(AH)
601+74.48(BK)=601+76.24(AH)

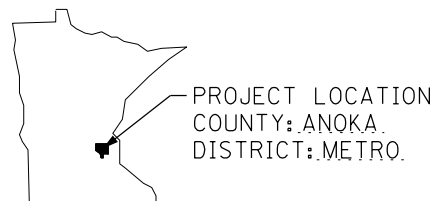
TH 10/169 EB
STA 471+94.34
BEGIN S.P. 0202-116,
S.P. 002-596-026

RIVERDALE DR EB STA 302+00.00
BEGIN S.P. 199-115-006

END S.P. 199-115-006
RIVERDALE DR EB STA 327+01.08

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER



AGREEMENT NO. XXXX
ANOKA COUNTY
S.P. 0202-116 (T.H. 10 = 003)
STATE FUNDS
METRO DISTRICT

FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL
STATE PROJ. NO. CHARGE IDENTIFIER
0202-116

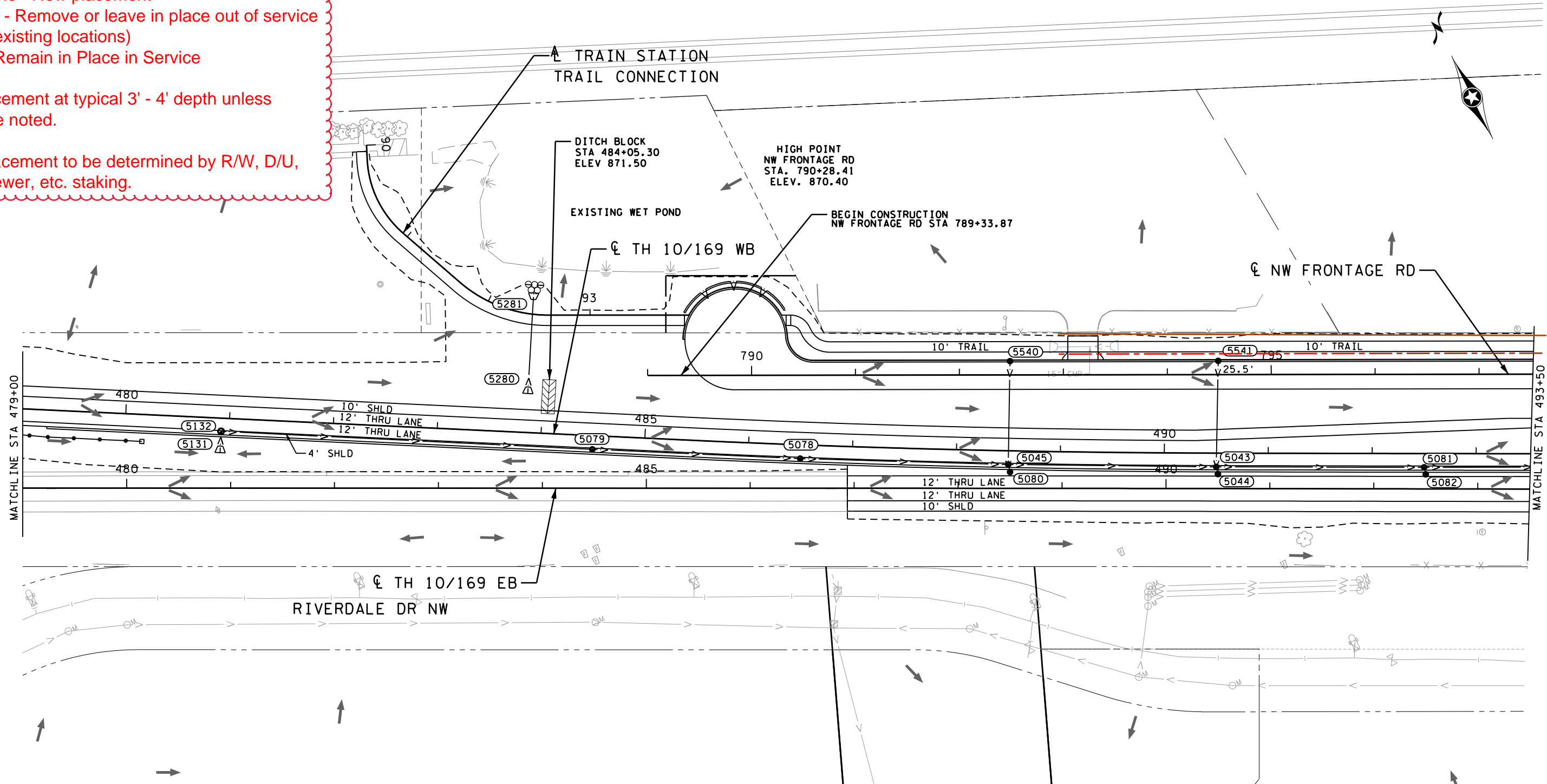
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GENERAL LAYOUT	0' 150'
PLAN	0' 50'
PROFILE	0' HORIZ. 50'
	0' VERT. 5'
CROSS-SECTION	0' HORIZ. 10'
	0' VERT. 10'

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12/2/2022

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

 New placement at typical 3' - 4' depth unless otherwise noted.

 Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

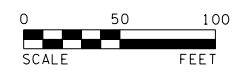


LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
◁ / ▷	PROPOSED/INPLACE APRON	---	EXISTING RIGHT-OF-WAY
⊗ / ⊙ / ⊖ / ⊕	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	PROPOSED RIGHT-OF-WAY
—>—	PROPOSED STORM SEWER AND/OR CULVERT	---	TEMPORARY EASEMENT
->-	INPLACE STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
==>==	CASED STORM SEWER	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE		
②	CONNECT TO EXISTING STORM SEWER		

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5043	354	5082	374
5044	374	5131	354
5045	354	5132	354
5078	354	5280	371
5079	354	5281	371
5080	374	5540	374
5081	354	5541	374

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 8:59:45 AM
 John.Perkins
 12/1/2022



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 www.bolton-menk.com

REV.	BY	DATE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
ENGINEER SIGNATURE 4
 JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

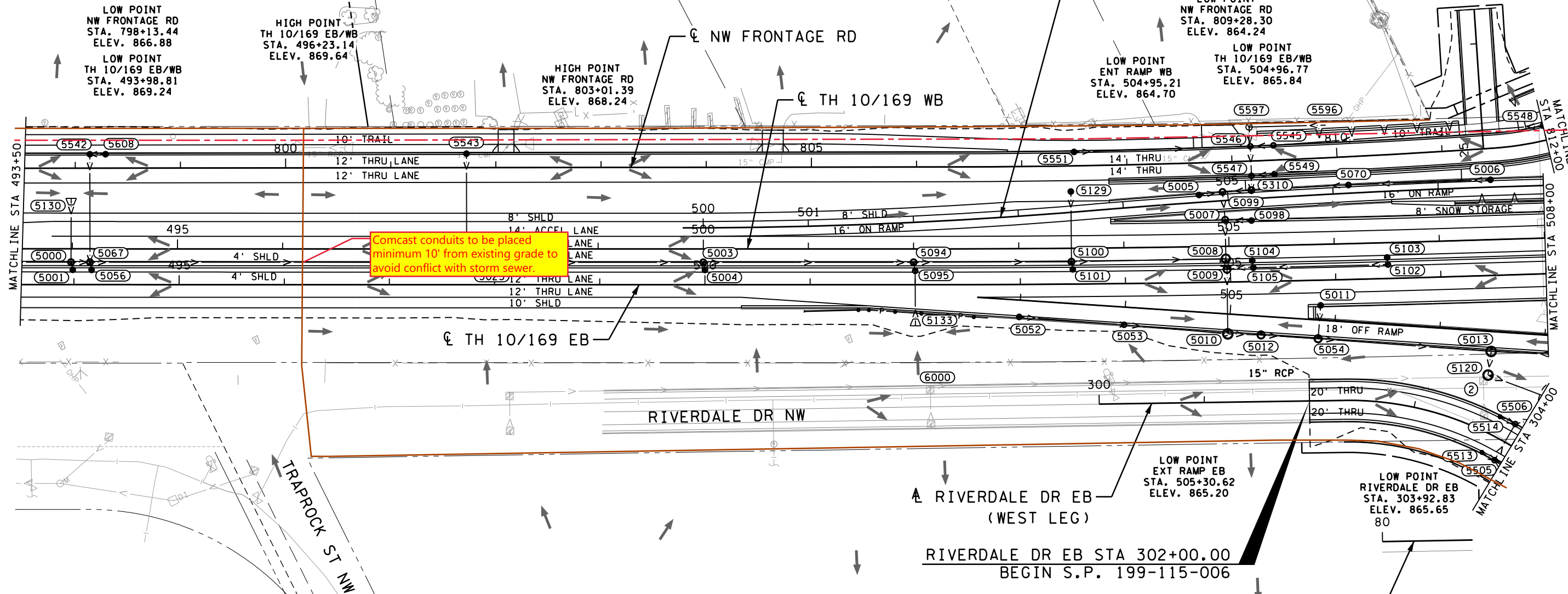
S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001,
 S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
US HWY 10/169 IMPROVEMENTS
DRAINAGE PLAN

SHEET
338
 OF
654

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

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LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
◁ / ▷	PROPOSED/INPLACE APRON	---	EXISTING RIGHT-OF-WAY
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	PROPOSED RIGHT-OF-WAY
→	PROPOSED STORM SEWER AND/OR CULVERT	---	TEMPORARY EASEMENT
→	INPLACE STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	CASED STORM SEWER	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE		
②	CONNECT TO EXISTING STORM SEWER		

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5000	354	5025	374	5103	376	5545	375
5001	374	5052	376	5104	397	5546	375
5002	355	5053	376	5105	376	5547	375
5003	355	5054	355	5120	355	5548	375
5004	397	5056	374	5129	397	5549	375
5005	375	5067	355	5130	374	5551	375
5006	376	5070	376	5133	397	5596	400
5007	375	5094	355	5310	375	5608	374
5008	355	5095	397	5505	356	6000	N/A
5009	355	5098	398	5506	356		
5010	355	5099	375	5513	377		
5011	397	5100	355	5514	377		
5012	355	5101	397	5542	374		
5013	355	5102	376	5543	374		



12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
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 Email: Burns@bolton-menk.com
 www.bolton-menk.com

REV.	BY	DATE

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

ENGINEER SIGNATURE 4

JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS

DRAINAGE PLAN

SHEET 339 OF 654

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

DOM RIPRAP CL III
 EXISTING RIGHT-OF-WAY
 PROPOSED RIGHT-OF-WAY
 TEMPORARY EASEMENT
 CONSTRUCTION LIMITS
 EXISTING EASEMENT
 PROPOSED EASEMENT
 CONNECT INTO EXISTING DRAINAGE STRUCTURE
 CONNECT TO EXISTING STORM SEWER

- (A) STRUCTURE 5510 TO INCLUDE 5' SUMP AND STRUCTURAL POLLUTION CONTROL DEVICE (INCIDENTAL TO STRUCTURE 5510).
- (B) STRUCTURE 5515 TO INCLUDE 4' SUMP AND STRUCTURAL POLLUTION CONTROL DEVICE (INCIDENTAL TO STRUCTURE 5515).
- (C) STRUCTURE 5578 TO INCLUDE 4' SUMP AND STRUCTURAL POLLUTION CONTROL DEVICE (INCIDENTAL TO STRUCTURE 5578).

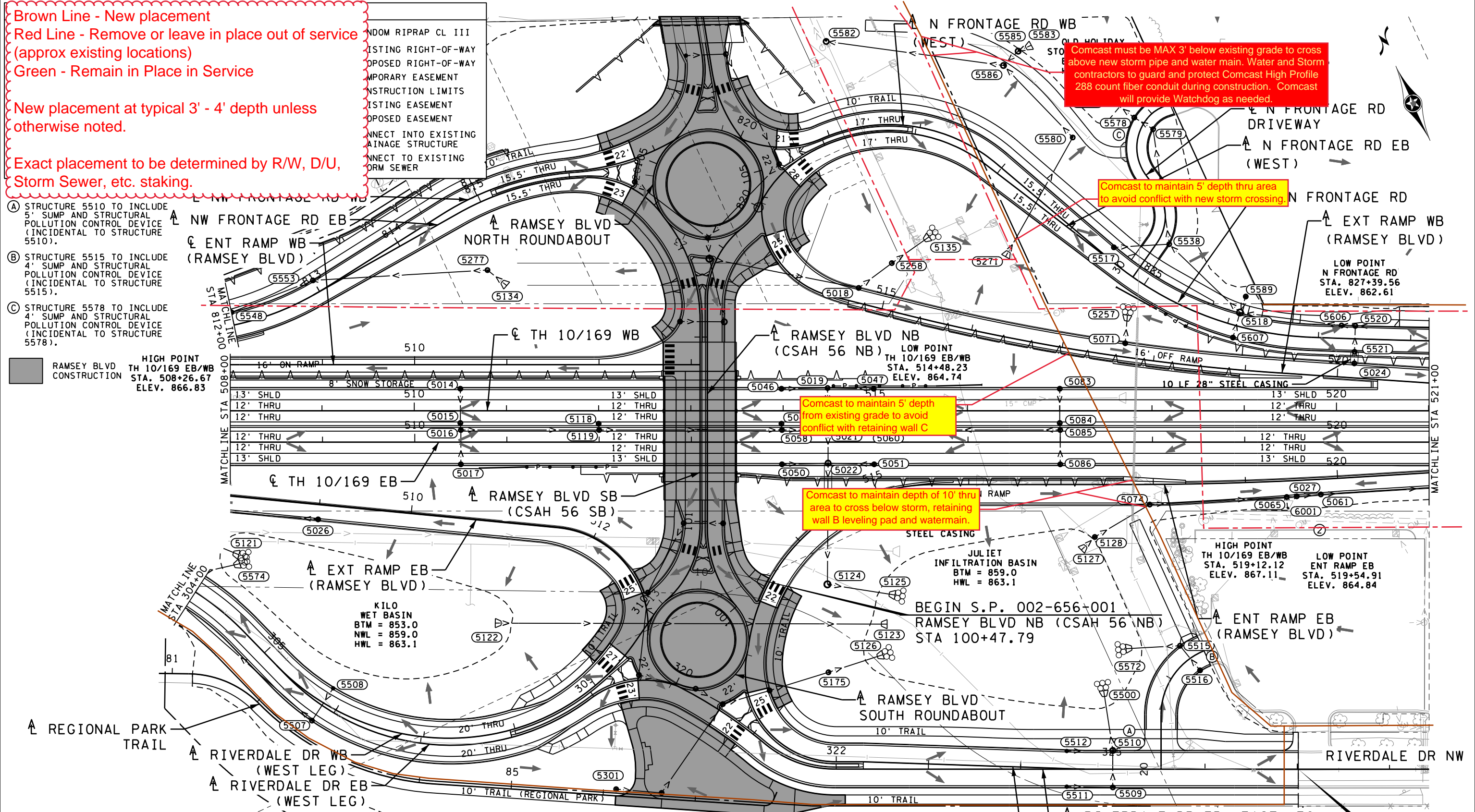
RAMSEY BLVD TH 10/169 EB/WB CONSTRUCTION HIGH POINT STA. 508+26.67 ELEV. 866.83

Comcast must be MAX 3' below existing grade to cross above new storm pipe and water main. Water and Storm contractors to guard and protect Comcast High Profile 288 count fiber conduit during construction. Comcast will provide Watchdog as needed.

Comcast to maintain 5' depth thru area to avoid conflict with new storm crossing.

Comcast to maintain 5' depth from existing grade to avoid conflict with retaining wall C

Comcast to maintain depth of 10' thru area to cross below storm, retaining wall B leveling pad and watermain.



STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.		
5014	358	5022	358	5050	378	5083	378	5123	379	5175	358	5507	356	5517	392	5572	359	5586	370
5015	358	5024	391	5051	378	5084	378	5124	358	5257	392	5508	356	5518	371	5574	356	5589	391
5016	358	5026	376	5058	358	5085	378	5125	358	5258	357	5509	359	5520	371	5578	371	5606	371
5017	397	5027	359	5060	378	5086	378	5126	358	5271	370	5510	359	5521	391	5579	371	5607	391
5018	357	5046	378	5061	359	5118	377	5127	359	5277	375	5511	359	5538	371	5580	370	6001	373
5019	378	5047	378	5065	359	5119	358	5128	359	5301	400	5512	379	5539	371	5582	370		
5020	378	5048	378	5071	392	5121	355	5134	375	5302	400	5515	359	5548	375	5583	391		
5021	358	5049	378	5074	359	5122	379	5135	357	5500	359	5516	359	5553	375	5585	391		

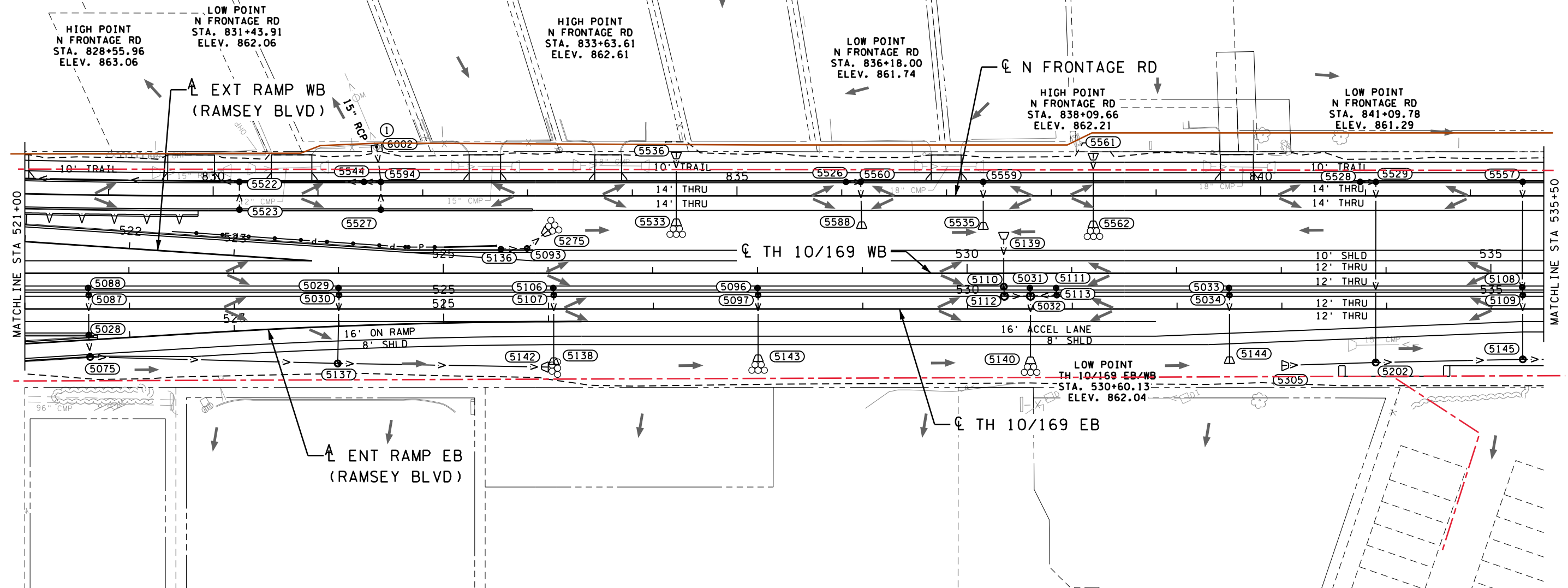
END S.P. 199-115-006
 RIVERDALE DR EB
 STA 327+01.08

bmi.tbi
 pdf-B and W.pltfcg
 8:59:58 AM
 JohnPerkins
 12/1/2022

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

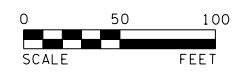


LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
◁ / ▷	PROPOSED/INPLACE APRON	---	EXISTING RIGHT-OF-WAY
⊗ / ⊙ / ⊖ / ⊕	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	PROPOSED RIGHT-OF-WAY
→	PROPOSED STORM SEWER AND/OR CULVERT	---	TEMPORARY EASEMENT
→	INPLACE STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	CASED STORM SEWER	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE		
②	CONNECT TO EXISTING STORM SEWER		

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5028	379	5107	398	5144	380	5544	371
5029	396	5108	380	5145	402	5557	380
5030	396	5109	380	5202	402	5559	396
5031	380	5110	380	5275	392	5560	392
5032	380	5111	380	5305	402	5561	389
5033	380	5112	380	5305	402	5562	389
5034	380	5113	380	5522	371	5562	389
5075	359	5136	392	5523	371	5588	392
5087	379	5137	359	5526	392	5594	371
5088	379	5138	398	5527	392	6002	371
5093	392	5139	380	5528	370		
5096	396	5140	380	5529	370		
5097	396	5142	359	5533	392		
5106	398	5143	396	5535	396		
				5536	392		



12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
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REV.	BY	DATE

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ENGINEER SIGNATURE 4

JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS

DRAINAGE PLAN

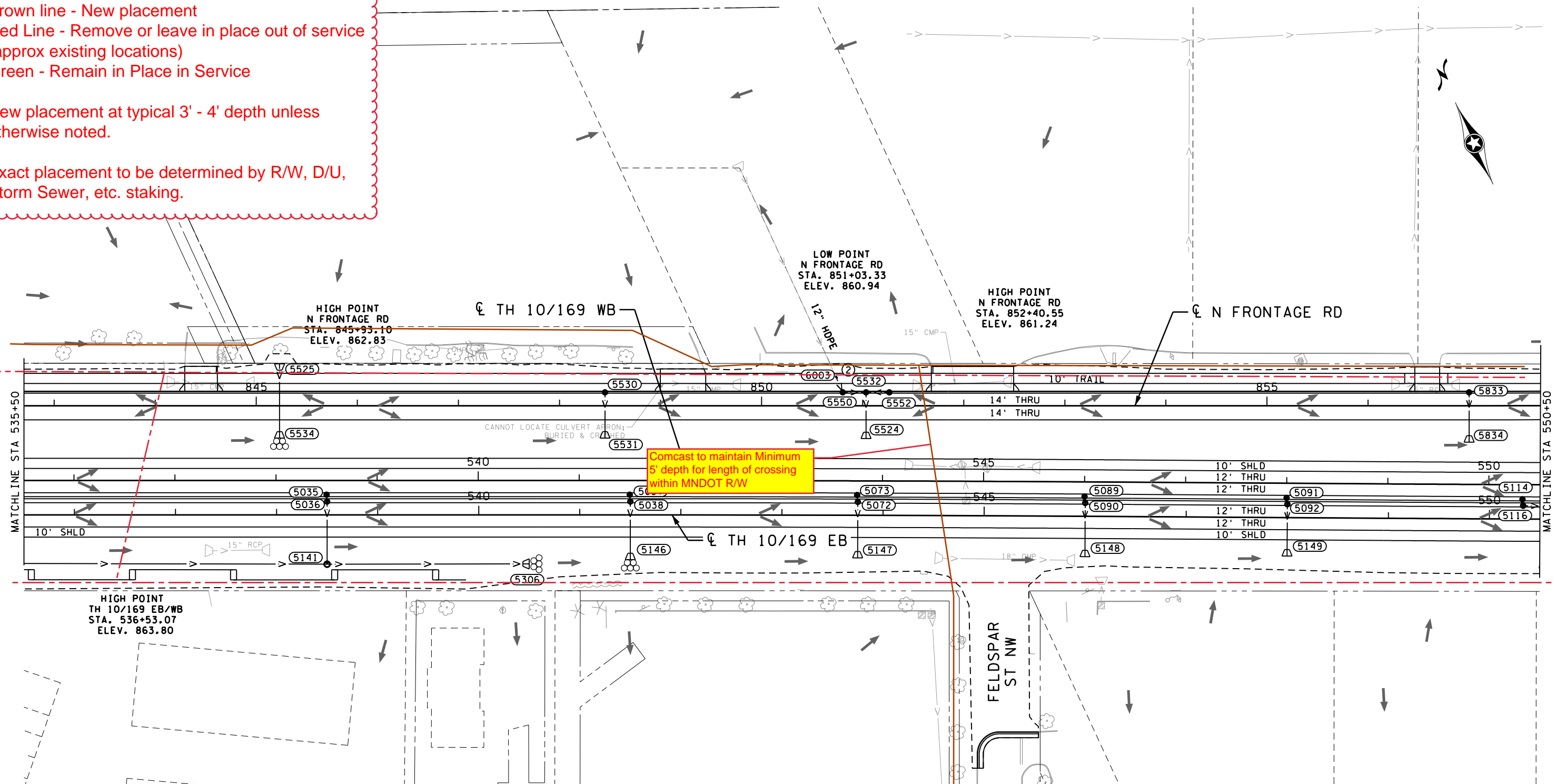
SHEET 341 OF 654

JohnPerkins 12/1/2022 pdf-B and W.pltctfg 9:00:05 AM bmi.tbl

Brown line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

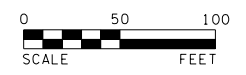


Comcast to maintain Minimum 5' depth for length of crossing within MNDOT R/W

LEGEND

- (XXXX) DRAINAGE STRUCTURE NUMBER
- ◁ / ▷ PROPOSED/INPLACE APRON
- ⊙ / ⊙ PROPOSED/INPLACE DRAINAGE STRUCTURE
- ▷ — PROPOSED STORM SEWER AND/OR CULVERT
- > — INPLACE STORM SEWER AND/OR CULVERT
- ▬ ▬ ▬ CASED STORM SEWER
- SURFACE FLOW DIRECTION
- ⊙ RANDOM RIPRAP CL III
- EXISTING RIGHT-OF-WAY
- - - PROPOSED RIGHT-OF-WAY
- - - TEMPORARY EASEMENT
- - - CONSTRUCTION LIMITS
- — — EXISTING EASEMENT
- - - PROPOSED EASEMENT
- ① CONNECT INTO EXISTING DRAINAGE STRUCTURE
- ② CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET					
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5035	396	5116	381	5532	381
5036	396	5141	402	5534	380
5037	396	5146	396	5550	381
5038	396	5147	381	5552	365
5072	381	5148	381	5833	381
5073	381	5149	381	5834	381
5089	381	5306	402	6003	381
5090	381	5524	381		
5091	381	5525	380		
5092	381	5530	396		
5114	381	5531	396		



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REV.	BY	DATE

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ENGINEER SIGNATURE 4

JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS

DRAINAGE PLAN

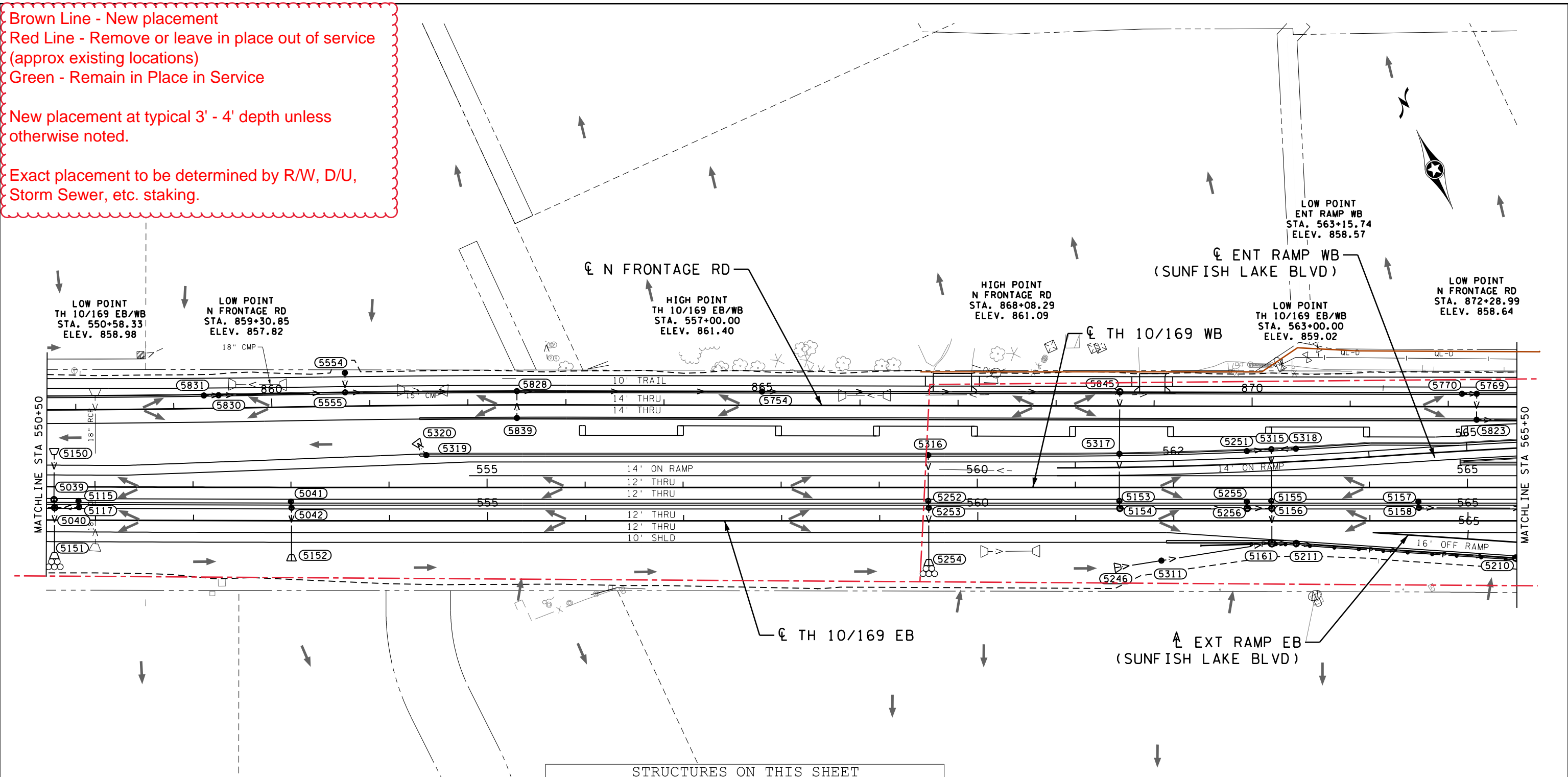
SHEET 342 OF 654

JohnPerkins 12/1/2022 9:00:12 AM bmi.tbl

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
◁ / ▷	PROPOSED/INPLACE APRON	- - - -	EXISTING RIGHT-OF-WAY
⊗ / ⊙ / ⊖ / ⊕	PROPOSED/INPLACE DRAINAGE STRUCTURE	- - - -	PROPOSED RIGHT-OF-WAY
—▷—	PROPOSED STORM SEWER AND/OR CULVERT	- - - -	TEMPORARY EASEMENT
-▷-	INPLACE STORM SEWER AND/OR CULVERT	- - - -	CONSTRUCTION LIMITS
==▷==	CASED STORM SEWER	- - - -	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	- - - -	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE		
②	CONNECT TO EXISTING STORM SEWER		

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5039	360	5210	372	5319	402
5040	360	5211	372	5320	402
5041	395	5246	372	5554	399
5042	395	5251	384	5555	367
5115	381	5252	398	5754	367
5117	381	5253	398	5769	386
5150	360	5254	398	5770	386
5151	360	5255	384	5823	386
5152	395	5256	367	5828	367
5153	367	5300	373	5830	367
5154	367	5311	372	5831	367
5155	384	5312	373	5839	365
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5157	368	5316	398	6023	373
5158	368	5317	367		
5161	372	5318	402		

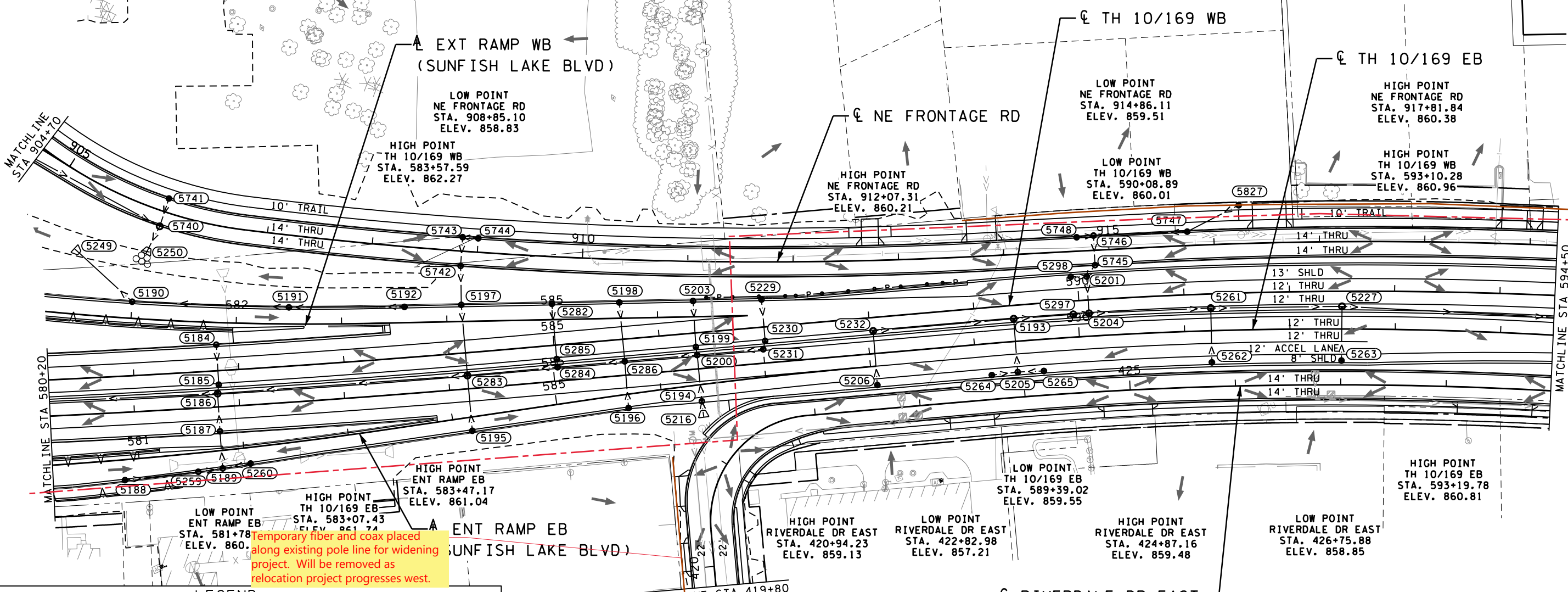
H:\AKC0\T44121316\CAD\MS\plans\Drainage\cd0202116_dr008.dgn SCALE 0 50 100 FEET 	BOLTON & MENK 12224 NICOLLET AVENUE BURNSVILLE, MINNESOTA 55337 Phone: (952) 890-0509 Email: Burnsville@bolton-menk.com www.bolton-menk.com	REV. BY DATE _____ _____ _____	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. ENGINEER SIGNATURE 4 JOHN L. PERKINS LIC. NO. 56278 DATE XX-XX-XXXX	DESIGNED NTS DRAWN NTS CHECKED JLP	S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006 US HWY 10/169 IMPROVEMENTS DRAINAGE PLAN	SHEET 343 OF 654
--	---	---	---	--	--	------------------

bmi.tbi
 pdf-B and W.pltctfg
 9:00:18 AM
 John.Perkins
 12/1/2022

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



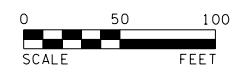
Temporary fiber and coax placed along existing pole line for widening project. Will be removed as relocation project progresses west.

LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
□/□	PROPOSED/INPLACE APRON	---	EXISTING RIGHT-OF-WAY
⊙/⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	PROPOSED RIGHT-OF-WAY
→	PROPOSED STORM SEWER AND/OR CULVERT	---	TEMPORARY EASEMENT
→	INPLACE STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	CASED STORM SEWER	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
		①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
		②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5184	387	5198	398	5249	360	5741	393
5185	387	5199	398	5250	369	5742	388
5186	387	5200	399	5259	387	5743	388
5187	387	5201	389	5260	387	5744	388
5188	387	5203	398	5261	361	5745	389
5189	387	5204	361	5262	391	5746	389
5190	360	5205	389	5263	391	5747	389
5191	360	5206	361	5264	389	5748	389
5192	360	5216	398	5265	389	5827	389
5193	361	5227	361	5282	398		
5194	398	5229	399	5283	388		
5195	398	5230	399	5297	361		
5196	398	5231	399	5298	395		
5197	388	5232	361	5740	369		



12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
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REV.	BY	DATE

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ENGINEER SIGNATURE 4

JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS

DRAINAGE PLAN

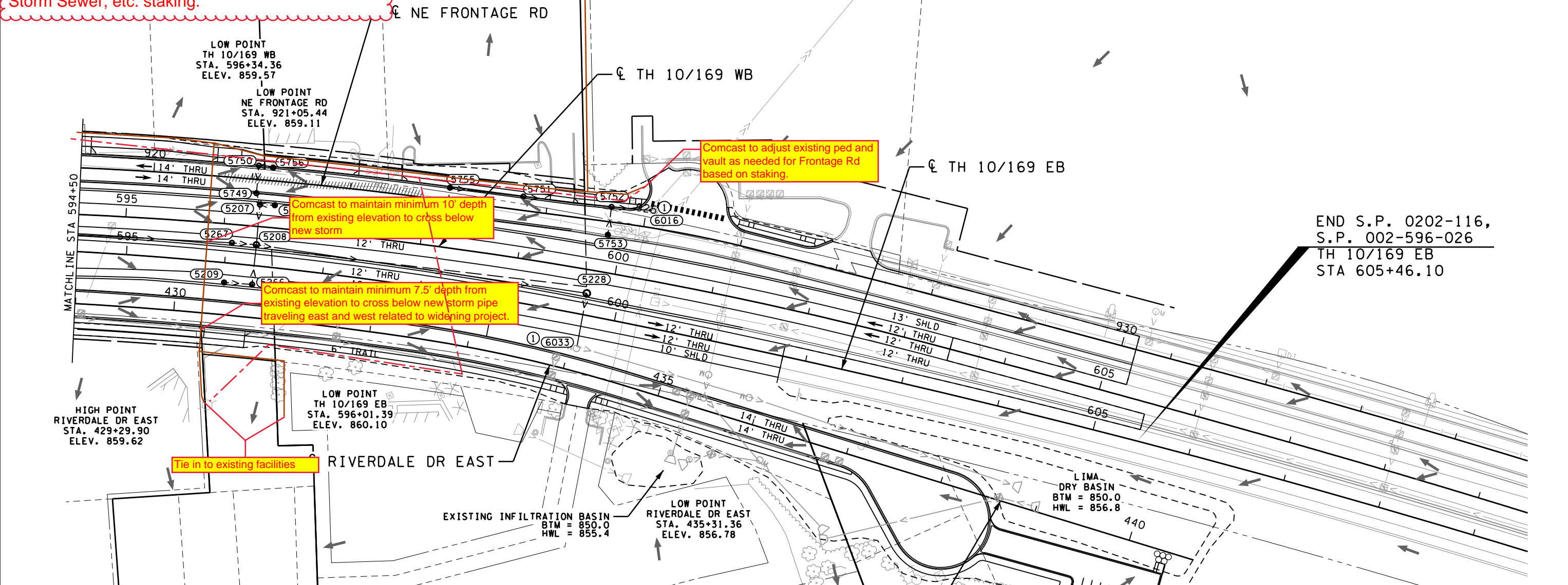
SHEET 345 OF 654

JohnPerkins 12/1/2022 9:00:31 AM bmi.tbi

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
◁ / ▷	PROPOSED/INPLACE APRON	---	EXISTING RIGHT-OF-WAY
⊙ ⊗ ⊕ ⊖ ⊗	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	PROPOSED RIGHT-OF-WAY
—>—	PROPOSED STORM SEWER AND/OR CULVERT	---	TEMPORARY EASEMENT
—>—	INPLACE STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
==>==	CASED STORM SEWER	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE	①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
②	CONNECT TO EXISTING STORM SEWER	②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET			
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5207	390	5756	390
5208	361	6016	360
5209	390	6033	361
5228	361		
5266	390		
5267	361		
5299	395		
5749	390		
5750	390		
5751	360		
5752	360		
5753	391		
5755	360		



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ENGINEER SIGNATURE 4

JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS
 DRAINAGE PLAN

SHEET 346 OF 654

JohnPerkins
 12/1/2022 9:00:39 AM
 pdf-B and W.pltctfg
 bmi.tbl

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

5126	358	5585	391
5127	359	5586	370
5128	359		
5134	375		

NON-RAMSEY BLVD CONSTRUCTION

RIVERDALE DR EB (WEST LEG)
 RIVERDALE DR WB (WEST LEG)
 REGIONAL PARK TRAIL

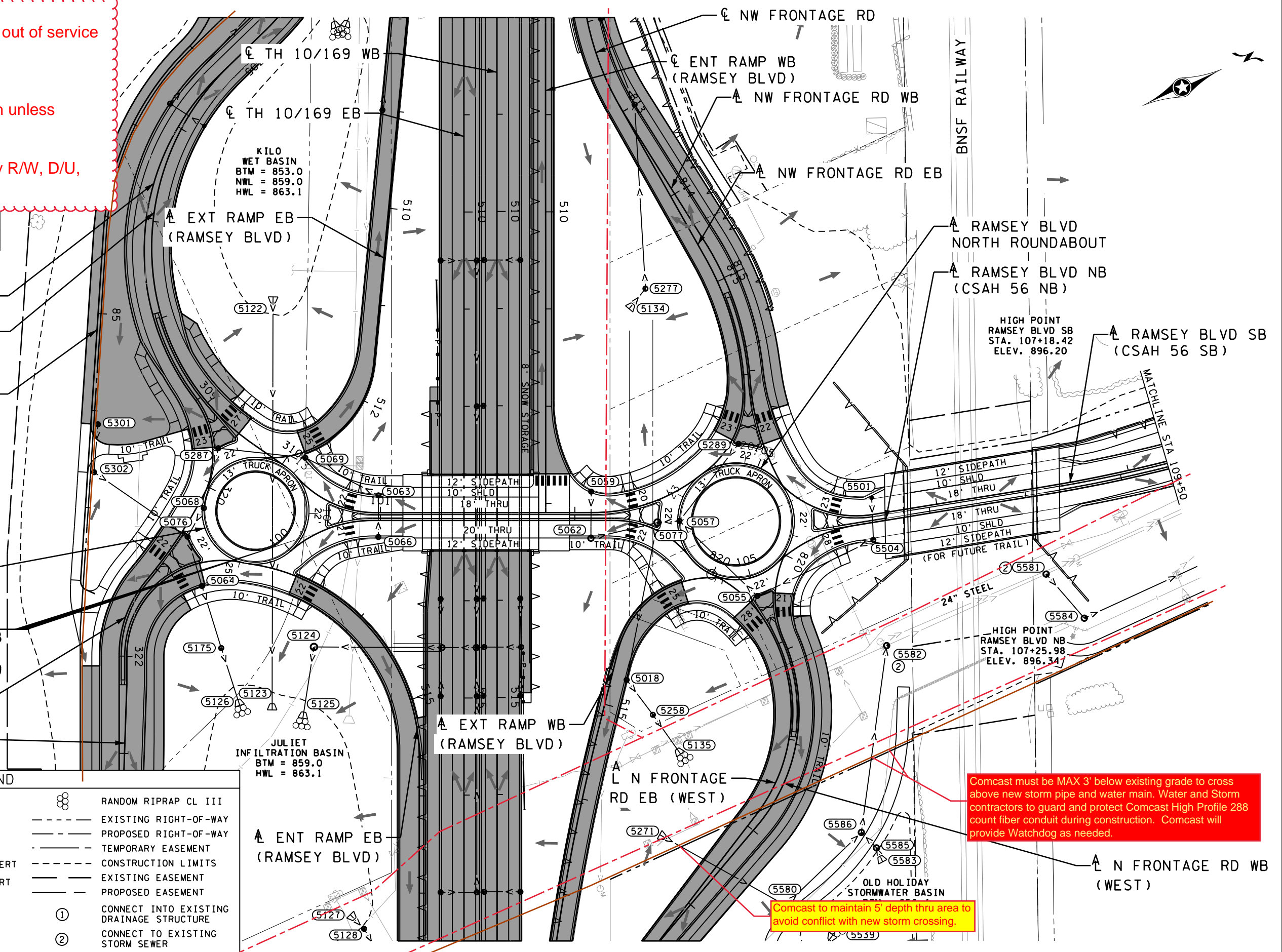
RAMSEY BLVD SOUTH ROUNDABOUT

BEGIN S.P. 002-656-001
 RAMSEY BLVD NB (CSAH 56 NB)
 STA 100+47.79

RIVERDALE DR EB (EAST LEG)
 RIVERDALE DR WB (EAST LEG)

LEGEND

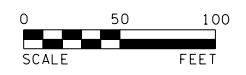
(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
◁/▷	PROPOSED/INPLACE APRON	---	EXISTING RIGHT-OF-WAY
⊙/⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	PROPOSED RIGHT-OF-WAY
—>	PROPOSED STORM SEWER AND/OR CULVERT	---	TEMPORARY EASEMENT
—>	INPLACE STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
==>	CASED STORM SEWER	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
		①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
		②	CONNECT TO EXISTING STORM SEWER



Comcast must be MAX 3' below existing grade to cross above new storm pipe and water main. Water and Storm contractors to guard and protect Comcast High Profile 288 count fiber conduit during construction. Comcast will provide Watchdog as needed.

Comcast to maintain 5' depth thru area to avoid conflict with new storm crossing.

bmi,tbi
 pdf-B and W.pltfcg
 9:00:45 AM
 John.Perkins
 12/1/2022



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 BURNSVILLE, MINNESOTA 55337
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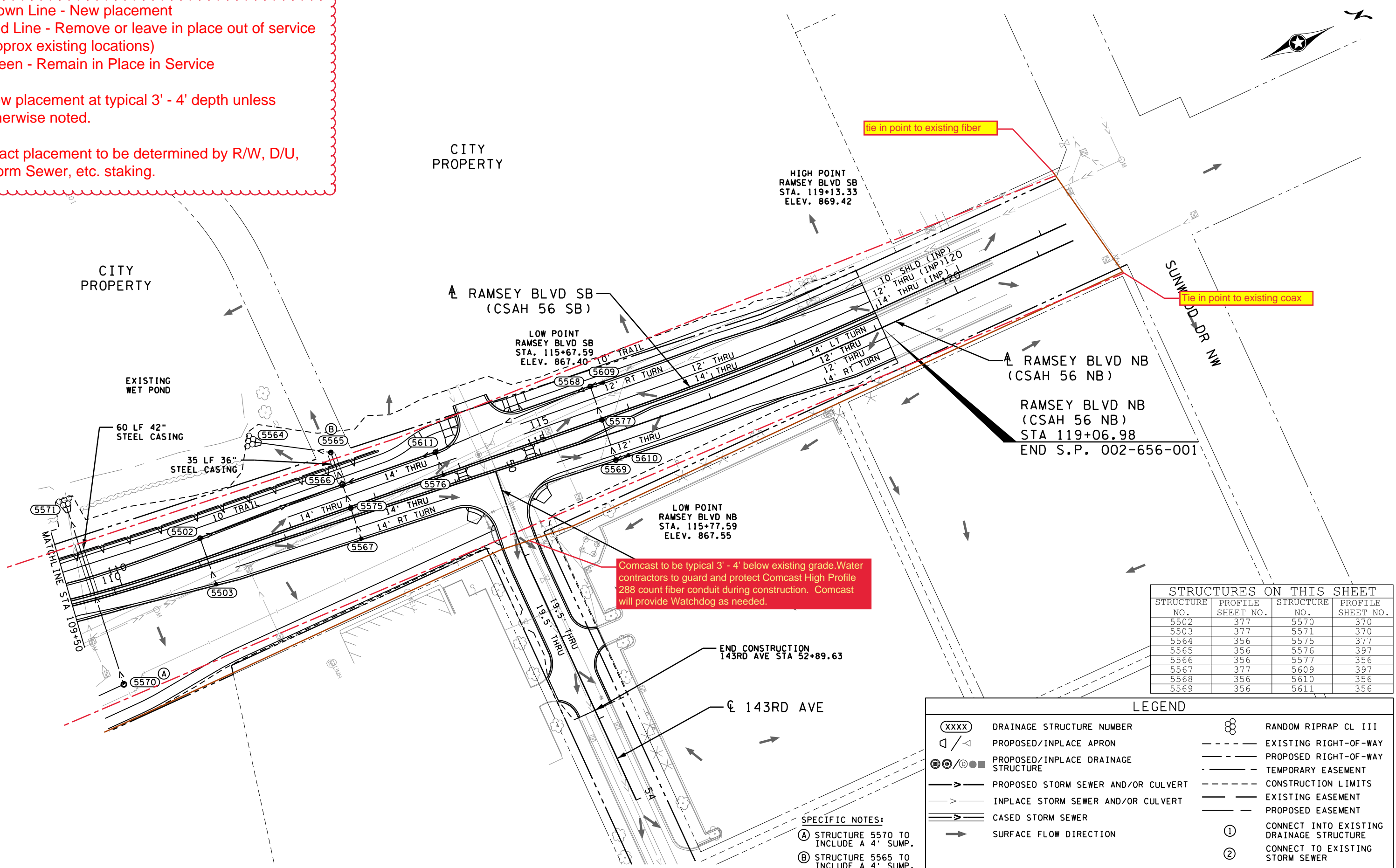
REV.	BY	DATE	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
ENGINEER SIGNATURE 4			DESIGNED NTS
JOHN L. PERKINS LIC. NO. 56278			DRAWN NTS
DATE XX-XX-XXXX			CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006	SHEET 347 OF 654
US HWY 10/169 IMPROVEMENTS	
DRAINAGE PLAN	

Brown Line - New placement
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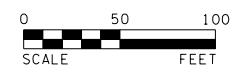


STRUCTURES ON THIS SHEET			
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
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5503	377	5571	370
5564	356	5575	377
5565	356	5576	397
5566	356	5577	356
5567	377	5609	397
5568	356	5610	356
5569	356	5611	356

LEGEND	
XXXX	DRAINAGE STRUCTURE NUMBER
□/□	PROPOSED/INPLACE APRON
⊙/⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE
—>	PROPOSED STORM SEWER AND/OR CULVERT
->	INPLACE STORM SEWER AND/OR CULVERT
==>	CASED STORM SEWER
→	SURFACE FLOW DIRECTION
⊗	RANDOM RIPRAP CL III
---	EXISTING RIGHT-OF-WAY
- - -	PROPOSED RIGHT-OF-WAY
- · - · -	TEMPORARY EASEMENT
- - - - -	CONSTRUCTION LIMITS
---	EXISTING EASEMENT
- - -	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
②	CONNECT TO EXISTING STORM SEWER

SPECIFIC NOTES:
 (A) STRUCTURE 5570 TO INCLUDE A 4" SUMP.
 (B) STRUCTURE 5565 TO INCLUDE A 4" SUMP.

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 9:00:51 AM
 John.Perkins
 12/1/2022



12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
 Phone: (952) 890-0509
 Email: Burnsville@bolton-menk.com
 www.bolton-menk.com

REV.	BY	DATE

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ENGINEER SIGNATURE 4
 JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS
 DRAINAGE PLAN

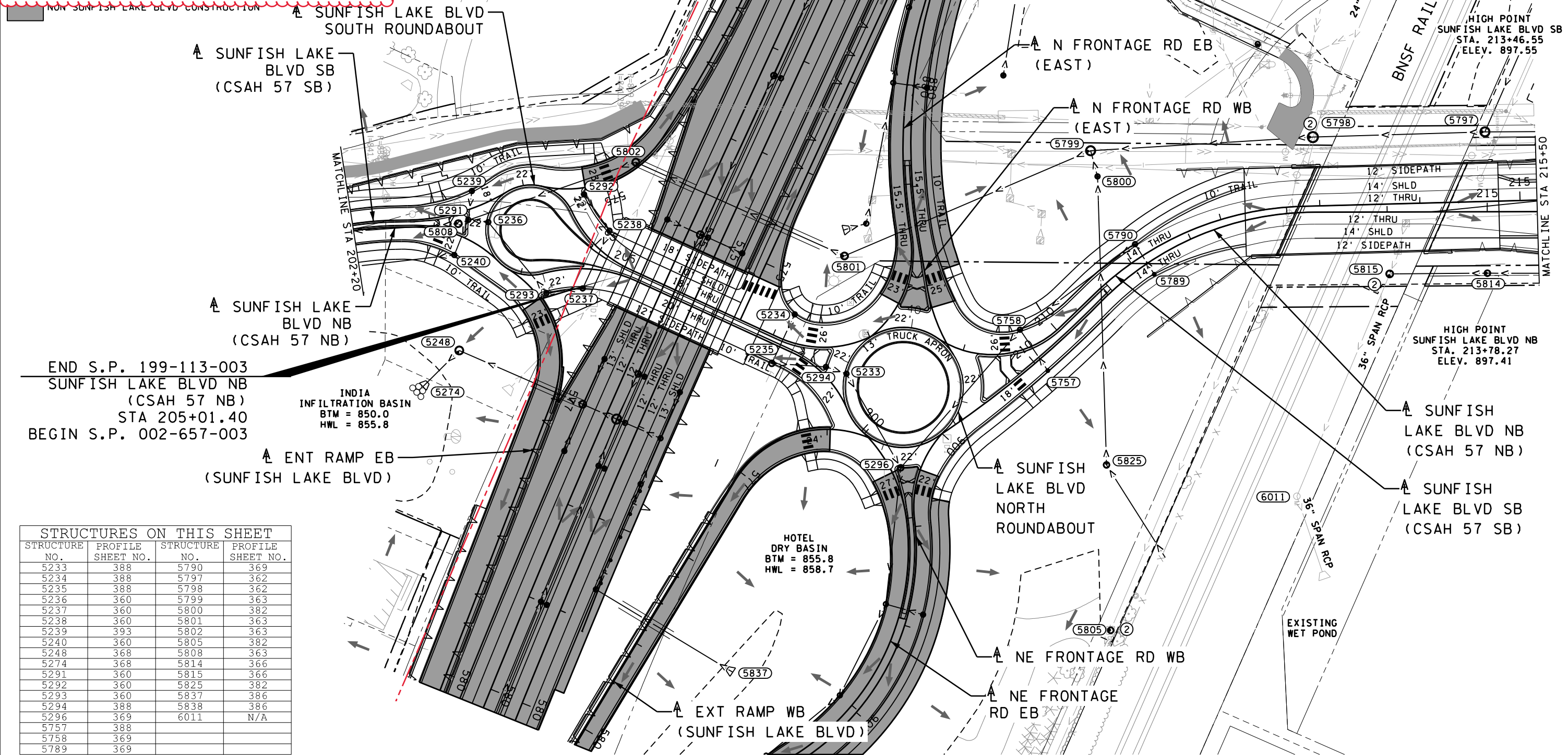
SHEET 348 OF 654

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

RANDOM RIPRAP CL III
 EXISTING RIGHT-OF-WAY
 PROPOSED RIGHT-OF-WAY
 TEMPORARY EASEMENT
 CONSTRUCTION LIMITS
 EXISTING EASEMENT
 PROPOSED EASEMENT
 CONNECT INTO EXISTING DRAINAGE STRUCTURE
 CONNECT TO EXISTING STORM SEWER

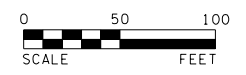


END S.P. 199-113-003
 SUNFISH LAKE BLVD NB
 (CSAH 57 NB)
 STA 205+01.40
 BEGIN S.P. 002-657-003

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5233	388	5790	369
5234	388	5797	362
5235	388	5798	362
5236	360	5799	363
5237	360	5800	382
5238	360	5801	363
5239	393	5802	363
5240	360	5805	382
5248	368	5808	363
5274	368	5814	366
5291	360	5815	366
5292	360	5825	382
5293	360	5837	386
5294	388	5838	386
5296	369	6011	N/A
5757	388		
5758	369		
5789	369		

John.Perkins 12/1/2022 9:00:58 AM pdf-B and W.pltcfgr bmi.tbi



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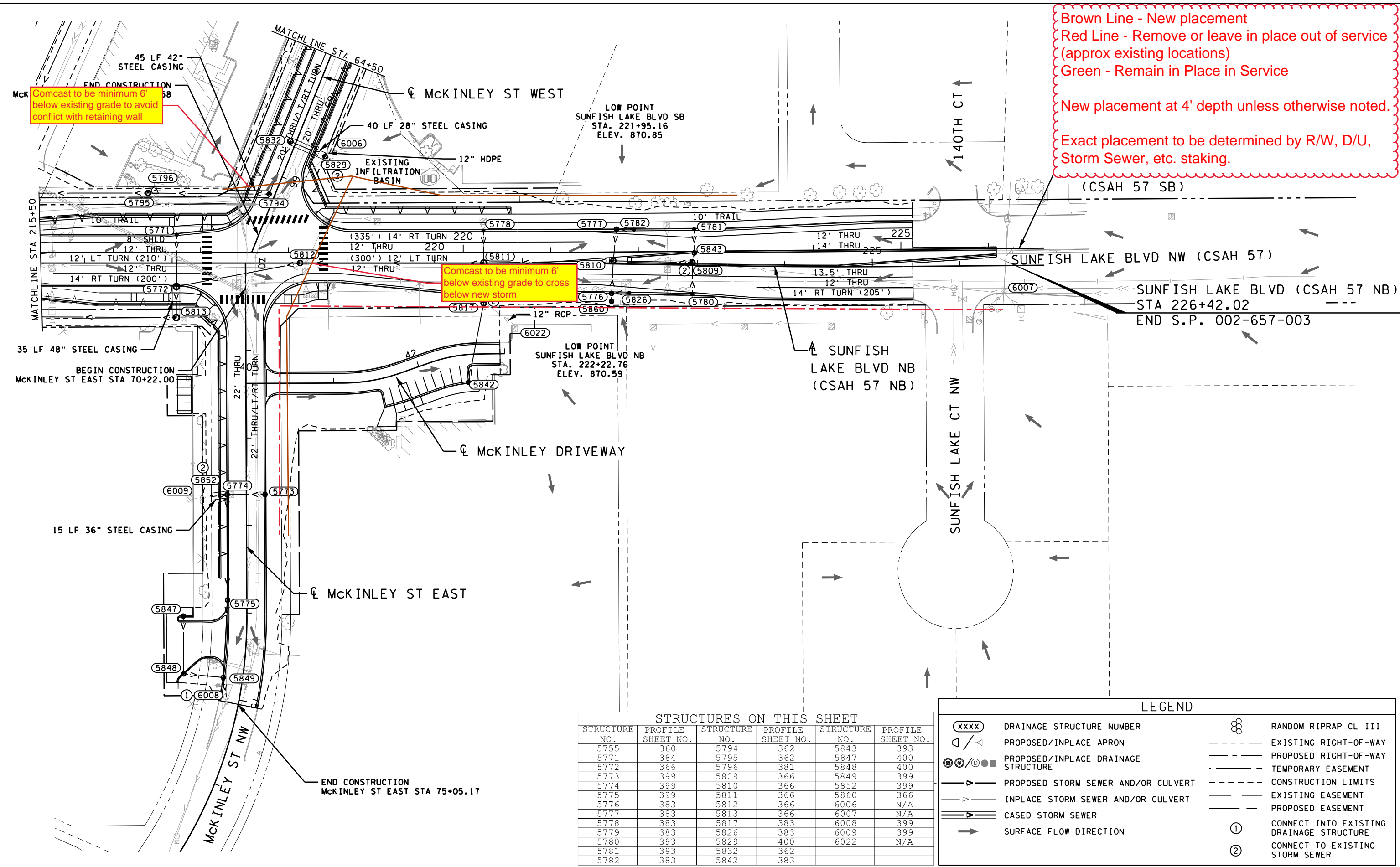
REV. BY DATE
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ENGINEER SIGNATURE 4
 JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP
 S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS
 DRAINAGE PLAN
 SHEET 349 OF 654

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at 4' depth unless otherwise noted.

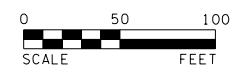
Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



STRUCTURES ON THIS SHEET					
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5755	360	5794	362	5843	393
5771	384	5795	362	5847	400
5772	366	5796	381	5848	400
5773	399	5809	366	5849	399
5774	399	5810	366	5852	399
5775	399	5811	366	5860	366
5776	383	5812	366	6006	N/A
5777	383	5813	366	6007	N/A
5778	383	5817	383	6008	399
5779	383	5826	383	6009	399
5780	393	5829	400	6022	N/A
5781	393	5832	362		
5782	383	5842	383		

LEGEND			
(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
▭ / ▭	PROPOSED/INPLACE APRON	- - - -	EXISTING RIGHT-OF-WAY
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	- - - -	PROPOSED RIGHT-OF-WAY
→	PROPOSED STORM SEWER AND/OR CULVERT	- - - -	TEMPORARY EASEMENT
→	INPLACE STORM SEWER AND/OR CULVERT	- - - -	CONSTRUCTION LIMITS
→	CASED STORM SEWER	- - - -	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	- - - -	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE		
②	CONNECT TO EXISTING STORM SEWER		

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 John.Perkins
 12/1/2022



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ENGINEER SIGNATURE 4

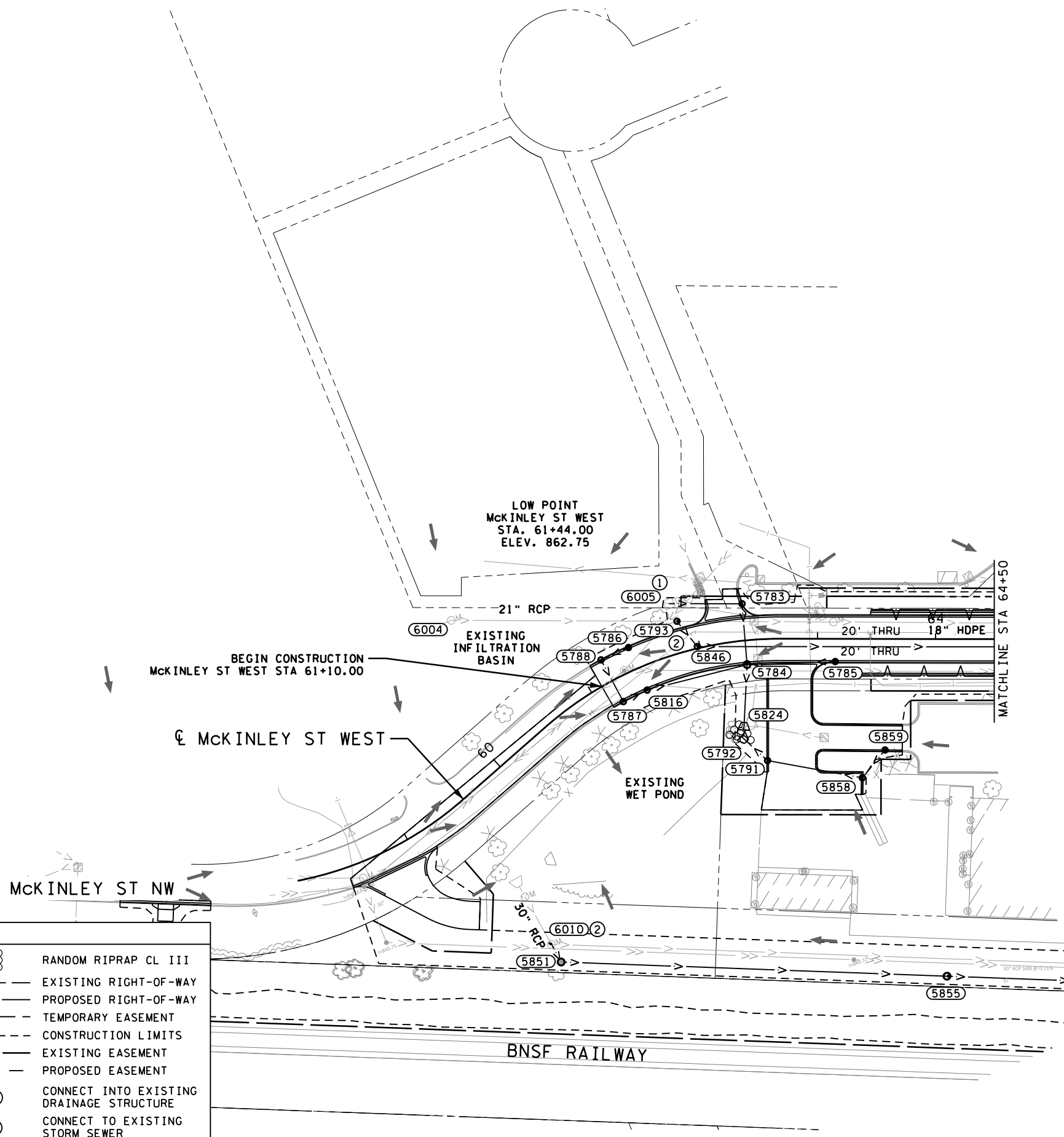
JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS

DRAINAGE PLAN

SHEET 350 OF 654



LOW POINT
McKINLEY ST WEST
STA. 61+44.00
ELEV. 862.75

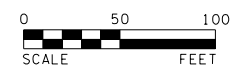
BEGIN CONSTRUCTION
McKINLEY ST WEST STA 61+10.00

MATCHLINE STA 64+50

LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
◁ / ▷	PROPOSED/INPLACE APRON	- - - -	EXISTING RIGHT-OF-WAY
⊗ / ⊗	PROPOSED/INPLACE DRAINAGE STRUCTURE	- - - -	PROPOSED RIGHT-OF-WAY
— > —	PROPOSED STORM SEWER AND/OR CULVERT	- - - -	TEMPORARY EASEMENT
— > —	INPLACE STORM SEWER AND/OR CULVERT	- - - -	CONSTRUCTION LIMITS
== > ==	CASED STORM SEWER	- - - -	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	- - - -	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE	①	
②	CONNECT TO EXISTING STORM SEWER	②	

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5783	365	5824	365
5784	365	5846	362
5785	365	5851	401
5786	383	5855	401
5787	383	5858	383
5788	383	5859	383
5791	383	6004	N/A
5792	383	6005	365
5793	362	6010	401
5816	383		



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ENGINEER SIGNATURE 1

JOHN L. PERKINS
LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
DRAWN NTS
CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001,
S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
US HWY 10/169 IMPROVEMENTS

DRAINAGE PLAN

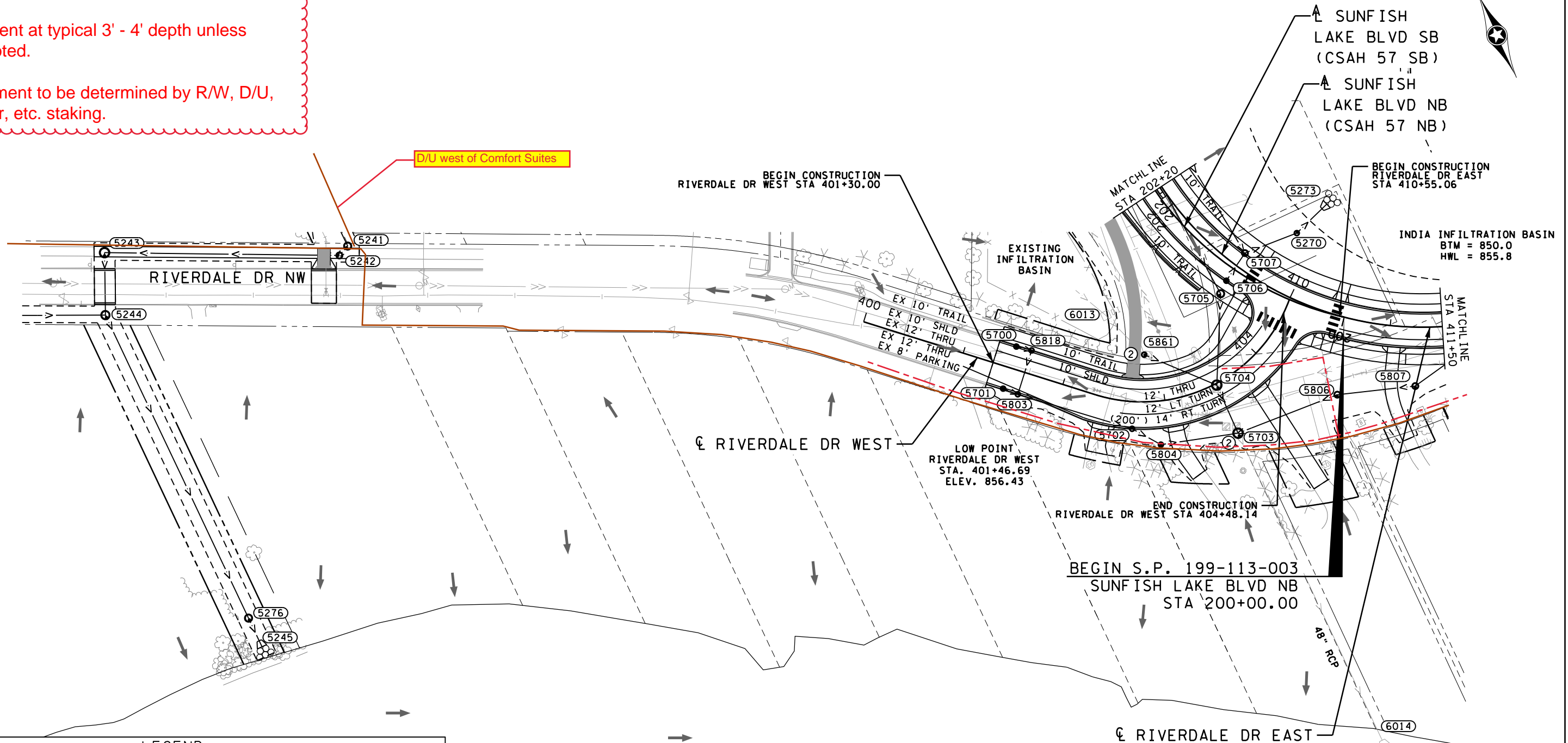
SHEET
OF
351
654

John Perkins 12/1/2022 9:01:11 AM pdf-B and W.pltctfg bmi.tbl

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
□/◁	PROPOSED/INPLACE APRON	---	EXISTING RIGHT-OF-WAY
⊗/⊙/⊖/⊕	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	PROPOSED RIGHT-OF-WAY
—>—	PROPOSED STORM SEWER AND/OR CULVERT	---	TEMPORARY EASEMENT
—>—	INPLACE STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
==>==	CASED STORM SEWER	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
		①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
		②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET			
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5241	372	5704	363
5242	372	5705	363
5243	372	5706	393
5244	373	5707	360
5245	373	5803	382
5270	360	5804	382
5273	360	5806	390
5276	373	5807	390
5700	382	5818	382
5701	382	5861	365
5702	382	6013	N/A
5703	363	6014	N/A

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John.Perkins
12/1/2022



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ENGINEER SIGNATURE 4

JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

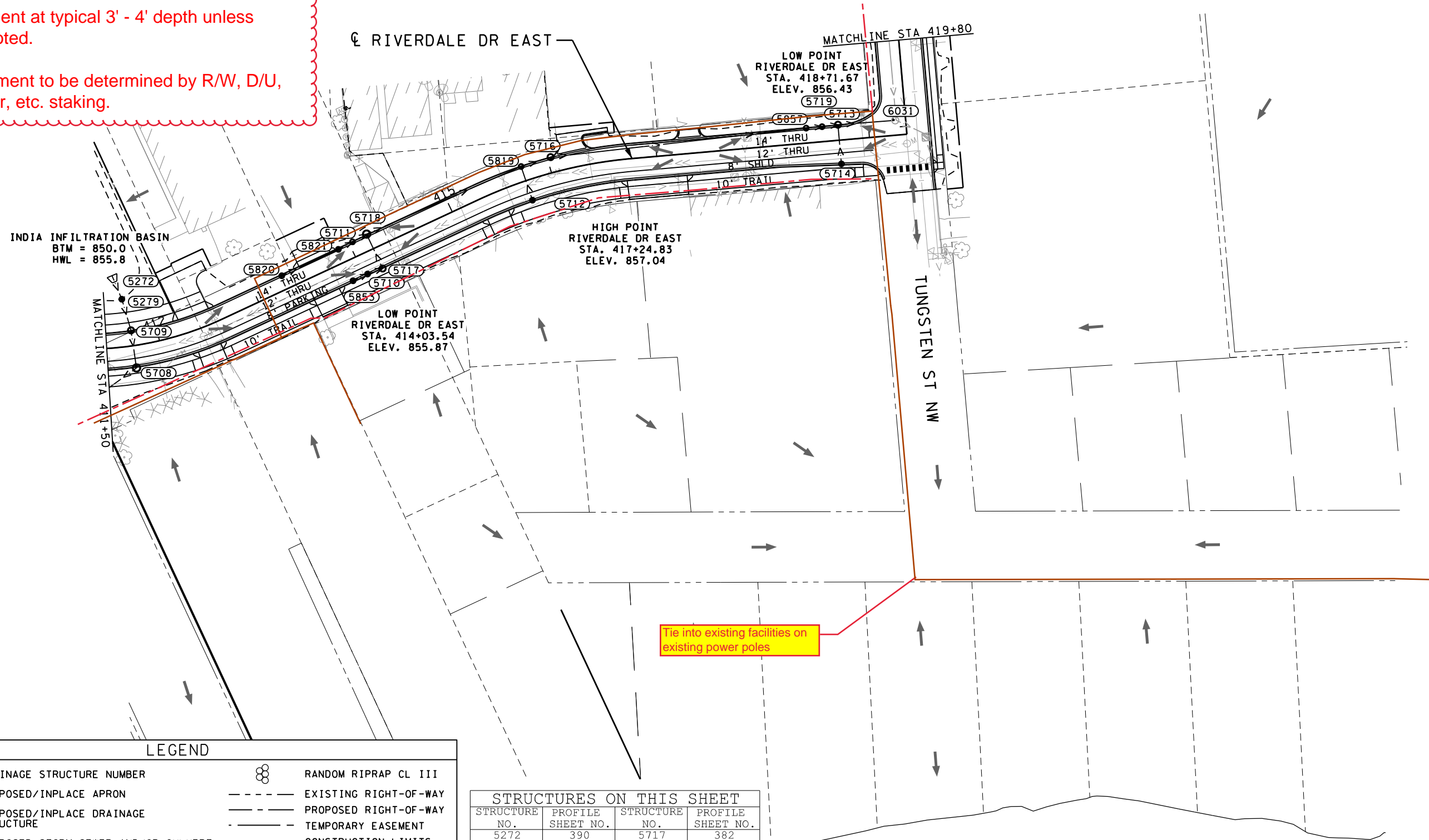
S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS
 DRAINAGE PLAN

SHEET 352 OF 654

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

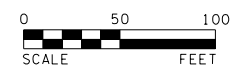


Tie into existing facilities on existing power poles

LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	⊗	RANDOM RIPRAP CL III
◁ / ▷	PROPOSED/INPLACE APRON	---	EXISTING RIGHT-OF-WAY
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	PROPOSED RIGHT-OF-WAY
—>	PROPOSED STORM SEWER AND/OR CULVERT	---	TEMPORARY EASEMENT
->	INPLACE STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
==>	CASED STORM SEWER	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
		①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
		②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET			
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5272	390	5717	382
5279	390	5718	364
5708	390	5719	364
5709	390	5819	364
5710	382	5820	364
5711	364	5821	364
5712	395	5853	382
5713	364	5857	364
5714	395	6031	364
5716	364		



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JOHN L. PERKINS
 LIC. NO. 56278 DATE XX-XX-XXXX

DESIGNED NTS
 DRAWN NTS
 CHECKED JLP

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 US HWY 10/169 IMPROVEMENTS

SHEET 353 OF 654
 DRAINAGE PLAN

John.Perkins
 12/1/2022 9:01:24 AM
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Comcast relocation and removals shown on Drainage Plan pages.

Prepared by:

Luke Bastil
Construction Specialist
luke_bastil@comcast.com
651-262-6600

MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR: GRADING AND BITUMINOUS SURFACING

LOCATED ON: T.H. 10 FROM 0.32 MILES EAST OF ARMSTRONG BLVD (C.S.A.H. 83) TO 0.38 MILES WEST OF THURSTON AVE.

FED. PROJ. NO. STBG 0223(195)

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

SHEET NO.	INDEX
1	TITLE SHEET
2-5	GENERAL LAYOUT
6-9	STATEMENT OF ESTIMATED QUANTITIES
10	CONSTRUCTION & EROSION CONTROL NOTES
11	STANDARD PLATES
12-13	EARTHWORK TABULATION & SUMMARY
14-18	QUANTITY TABULATION
19-24	TYPICAL SECTIONS
25	MISCELLANEOUS DETAILS
26-44	STANDARD PLANS
45-53	ALIGNMENT PLAN & TABULATION
54-64	EXISTING CONDITIONS PLAN
65-74	REMOVAL PLAN
75-84	DRAINAGE & PUBLIC UTILITY REMOVAL PLAN
85-94	CONSTRUCTION & SUPERELEVATION PLAN
95-97	CONSTRUCTION PROFILE
98-117	DRAINAGE PLAN
118-127	TURF ESTAB & EROSION CONTROL PLAN
128-129	STORMWATER POLLUTION PREVENTION PLAN
130-132	LIGHTING RELOCATION PLAN
133-162	SIGNING & STRIPING PLAN
163-173	STAGING & TRAFFIC CONTROL PLAN
174-183	CROSS-SECTION MATCHLINE LAYOUT

UT 1-UT 5
XS1-XS125

THIS PLAN CONTAINS 313 SHEETS



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PRINT NAME: DENA M. KING LICENSE # 45859

DATE: 2-8-2023 SIGNATURE: *Dena M. King*

RECOMMENDED FOR APPROVAL 20
ANOKA COUNTY ENGINEER

RECOMMENDED FOR APPROVAL 20
CITY OF RAMSEY CITY ENGINEER

OFFICE OF LAND MANAGEMENT APPROVAL 20
DIRECTOR, LAND MANAGEMENT

APPROVED 20
STATE DESIGN ENGINEER

STATE PROJ. NO. 0202-123
GROSS LENGTH 13626.06 FEET 2.581 MILES
BRIDGES-LENGTH FEET MILES
EXCEPTIONS-LENGTH FEET MILES
NET LENGTH 13626.06 FEET 2.581 MILES
REF. POINT 220+00.611 TO REF. POINT 223+00.416
NOTE: LENGTH AND DESCRIPTION BASED ON
E.X. T.H. 10/169 EB ALIGNMENT.

T.H. 10/169 DESIGN DESIGNATION
S.P. 0202-123
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL

R-VALUE (50) 10-TON DESIGN
ADT (2025) = 61,900
ADT (2045) = 79,000
PAVEMENT DESIGN BITUMINOUS
FUNCTIONAL CLASSIFICATION PRINCIPAL ARTERIAL
T (Heavy Commercial) 8.6%
NO. OF TRAFFIC LANES 4
NO. OF PARKING LANES 0
Shoulder Width 4'-13'
DESIGN ESALS (2045) 7,271,000
Design Speed 60 MPH
Based on Sight Distance STOPPING
Height of eye/Height of Object 3.5'/2.0'
Design Speed not achieved at: N/A

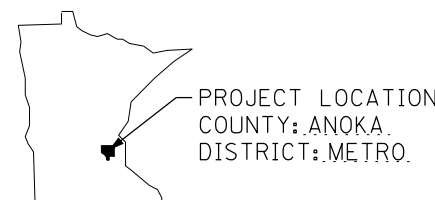
EX TH10/169 EB
STA 469+12.77
BEGIN S.P. 0202-123



END S.P. 0202-123
EX TH 10/169 EB
STA 605+46.11

THE SUBSURFACE UTILITY INFORMATION, EXCEPT SEWERS, IN THIS PLAN IS UTILITY LEVEL B, UNLESS NOTED OTHERWISE. THE SUBSURFACE UTILITY INFORMATION FOR SEWERS IN THIS PLAN IS UTILITY LEVEL C. THESE UTILITY QUALITY LEVELS WERE DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER



AGREEMENT NO. 1052001
ANOKA COUNTY
S.P. 0202-123 (T.H. 10 = 003)
STBG 0223(195)
METRO DISTRICT

FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL
STATE PROJ. NO. CHARGE IDENTIFIER
0202-123

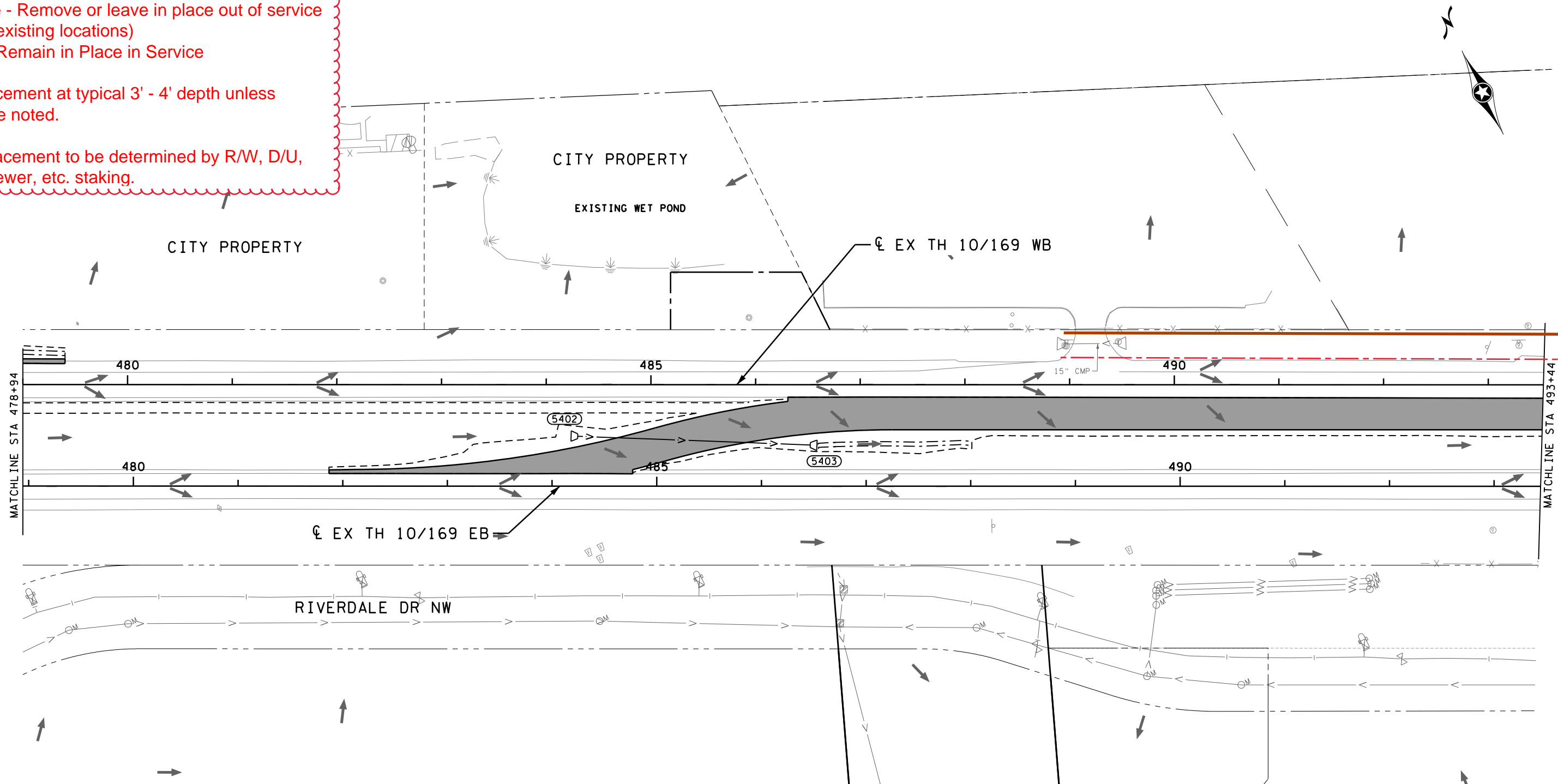
INDEX MAP 0' 2500'
GENERAL LAYOUT 0' 150'
PLAN 0' 50'
PROFILE 0' HORIZ. 25'
0' VERT. 5'
CROSS-SECTION 0' HORIZ. 10'
0' VERT. 10'

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2/9/2023
fombu

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

 New placement at typical 3' - 4' depth unless otherwise noted.

 Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



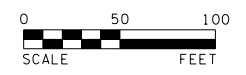
LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	---	EXISTING RIGHT-OF-WAY
□ / ▽	PROPOSED/INPLACE APRON	---	PROPOSED RIGHT-OF-WAY
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	TEMPORARY EASEMENT
→	PROPOSED STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	INPLACE STORM SEWER AND/OR CULVERT	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
---	DITCH GRADE LINE	①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
⊗	RANDOM RIPRAP CL III	②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5402	107		
5403	107		

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 2/9/2023




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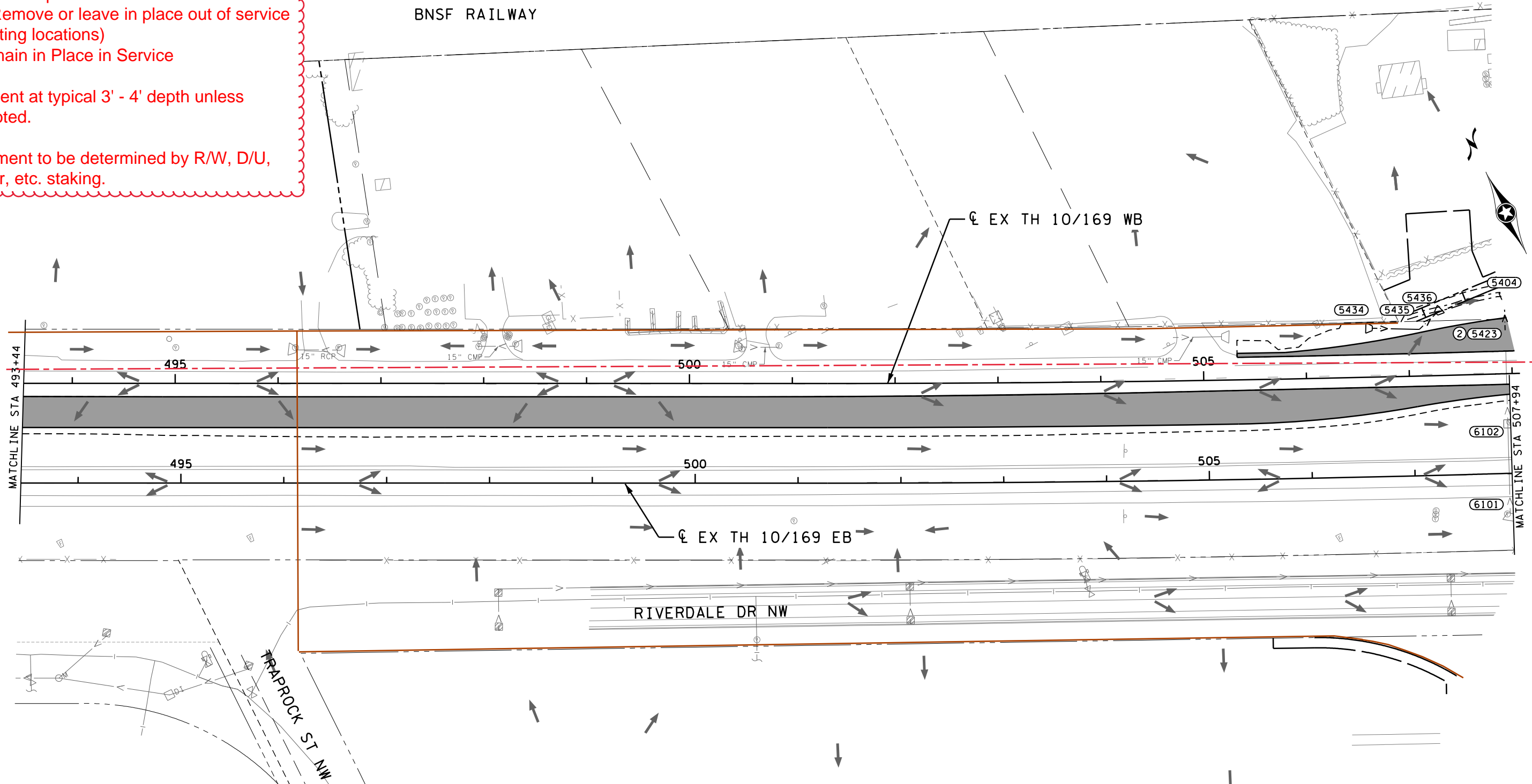
JOHN L. PERKINS
 LIC. NO. 56278 DATE 2-8-2023

DESIGNED JLP	S.P. 0202-123 (TH 10) US HWY 10/169 TEMPORARY WIDENING DRAINAGE PLAN	SHEET 99 OF 183
DRAWN NTS		
CHECKED JLP		

Brown Line - New placement
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New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	---	EXISTING RIGHT-OF-WAY
□ / ▽	PROPOSED/INPLACE APRON	---	PROPOSED RIGHT-OF-WAY
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	TEMPORARY EASEMENT
→	PROPOSED STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	INPLACE STORM SEWER AND/OR CULVERT	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
---	DITCH GRADE LINE	①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
⊗	RANDOM RIPRAP CL III	②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET			
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5404	107	5436	112
5423	107	6101	107
5434	112	6102	107
5435	112		

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12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
 Phone: (952) 890-0509
 Email: Burnsville@bolton-menk.com
 www.bolton-menk.com

REV.	BY	DATE

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JOHN L. PERKINS
 LIC. NO. 56278 DATE 2-8-2023

DESIGNED JLP
 DRAWN NTS
 CHECKED JLP

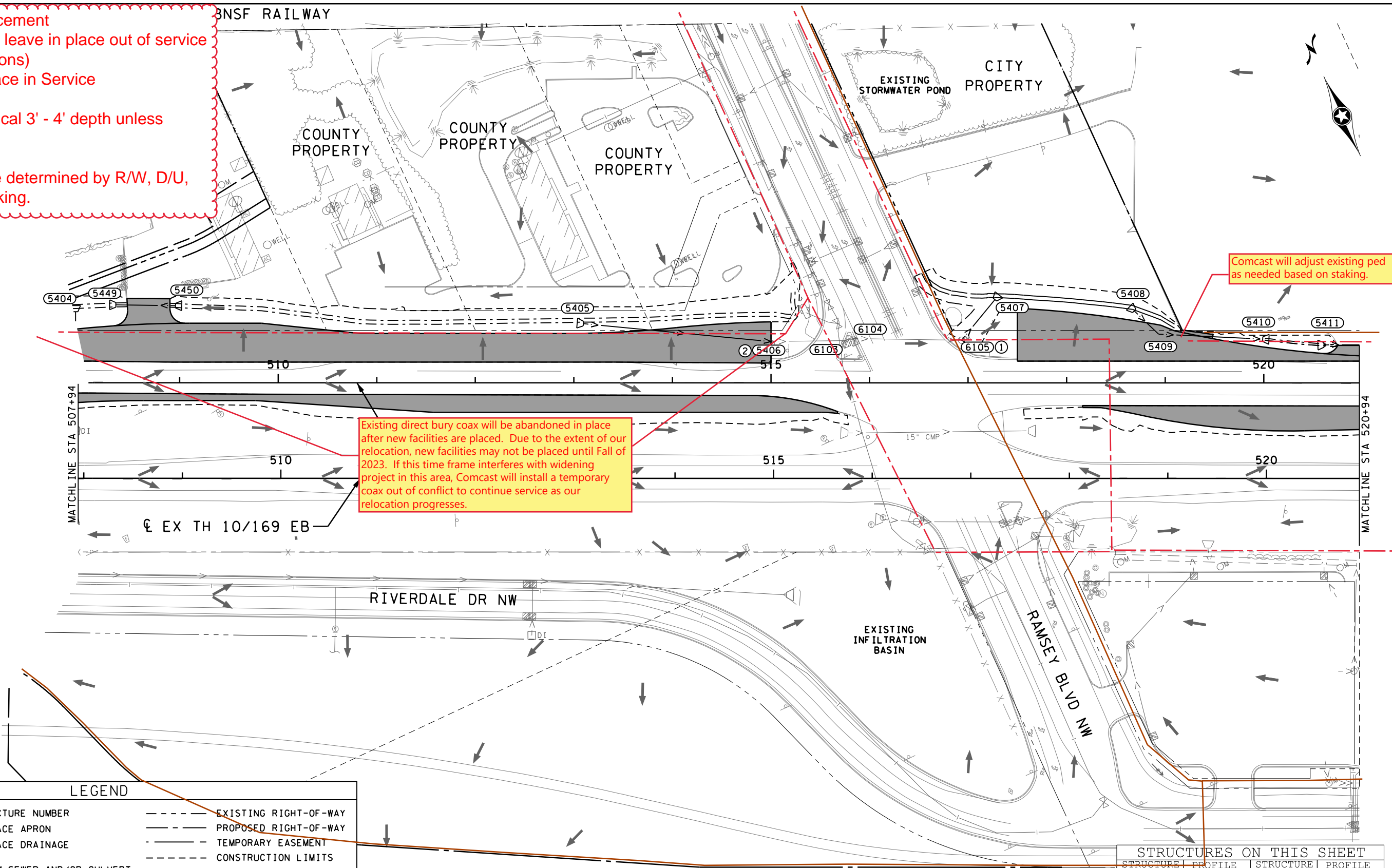
S.P. 0202-123 (TH 10)
 US HWY 10/169 TEMPORARY WIDENING
 DRAINAGE PLAN

SHEET
 100
 OF
 183

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



Existing direct bury coax will be abandoned in place after new facilities are placed. Due to the extent of our relocation, new facilities may not be placed until Fall of 2023. If this time frame interferes with widening project in this area, Comcast will install a temporary coax out of conflict to continue service as our relocation progresses.

Comcast will adjust existing ped as needed based on staking.

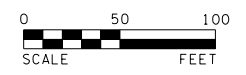
LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	---	EXISTING RIGHT-OF-WAY
□ / ▽	PROPOSED/INPLACE APRON	---	PROPOSED RIGHT-OF-WAY
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	TEMPORARY EASEMENT
→	PROPOSED STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	INPLACE STORM SEWER AND/OR CULVERT	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
---	DITCH GRADE LINE	①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
⊗	RANDOM RIPRAP CL III	②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5404	107	5411	107
5405	108	5449	111
5406	108	5450	111
5407	108	6103	108
5408	107	6104	108
5409	107	6105	108
5410	107		

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 JOHN L. PERKINS
 LIC. NO. 56278 DATE 2-8-2023

DESIGNED JLP
 DRAWN NTS
 CHECKED JLP

S.P. 0202-123 (TH 10)
 US HWY 10/169 TEMPORARY WIDENING
 DRAINAGE PLAN

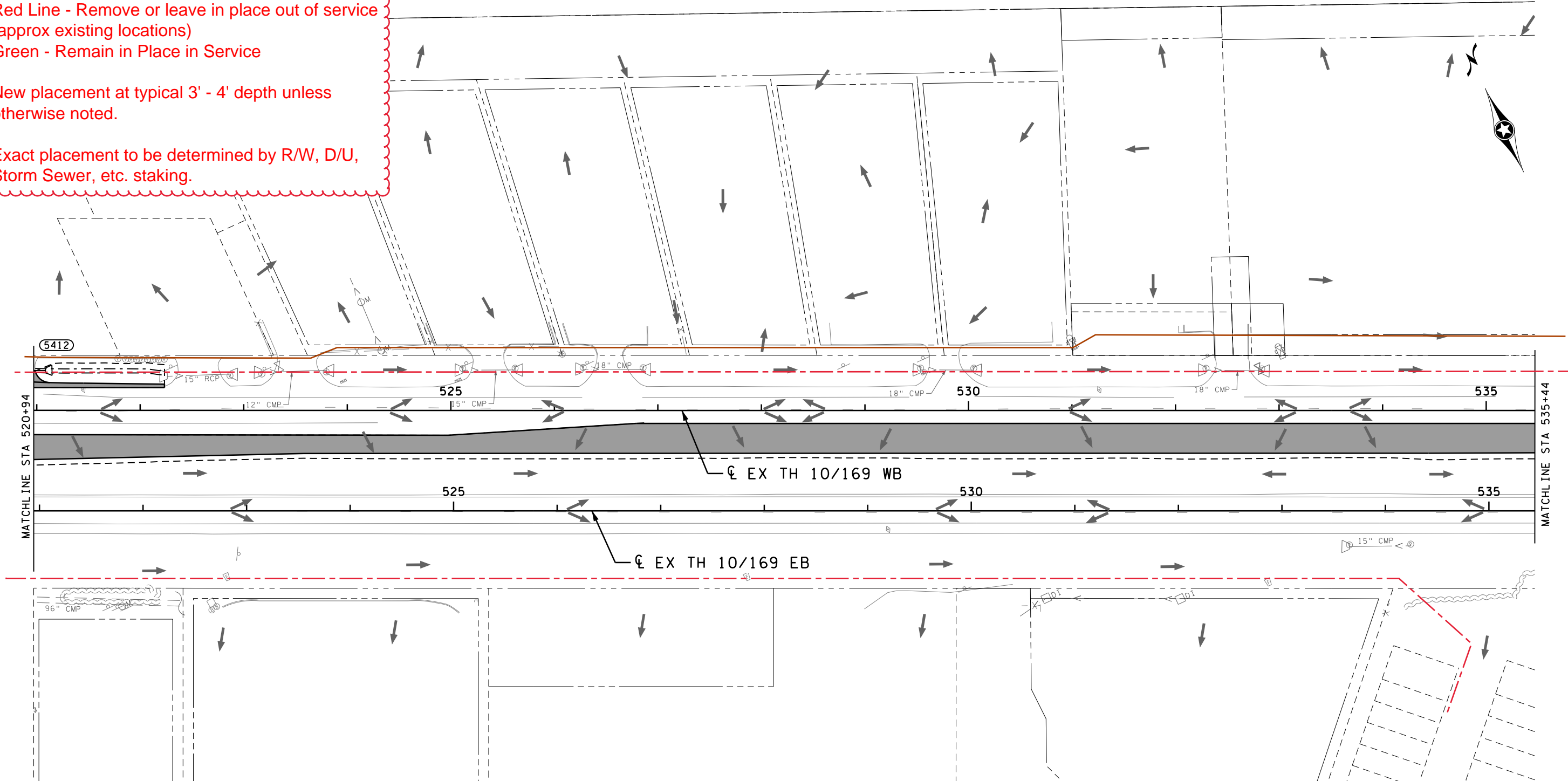
SHEET 101 OF 183

Brown Line - New placement
 Red Line - Remove or leave in place out of service (approx existing locations)
 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

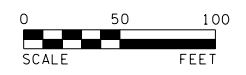
BNSF RAILWAY



LEGEND			
XXXX	DRAINAGE STRUCTURE NUMBER	---	EXISTING RIGHT-OF-WAY
□ / ▽	PROPOSED/INPLACE APRON	---	PROPOSED RIGHT-OF-WAY
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	TEMPORARY EASEMENT
→	PROPOSED STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	INPLACE STORM SEWER AND/OR CULVERT	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
---	DITCH GRADE LINE	①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
⊗	RANDOM RIPRAP CL III	②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET			
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5412	107		

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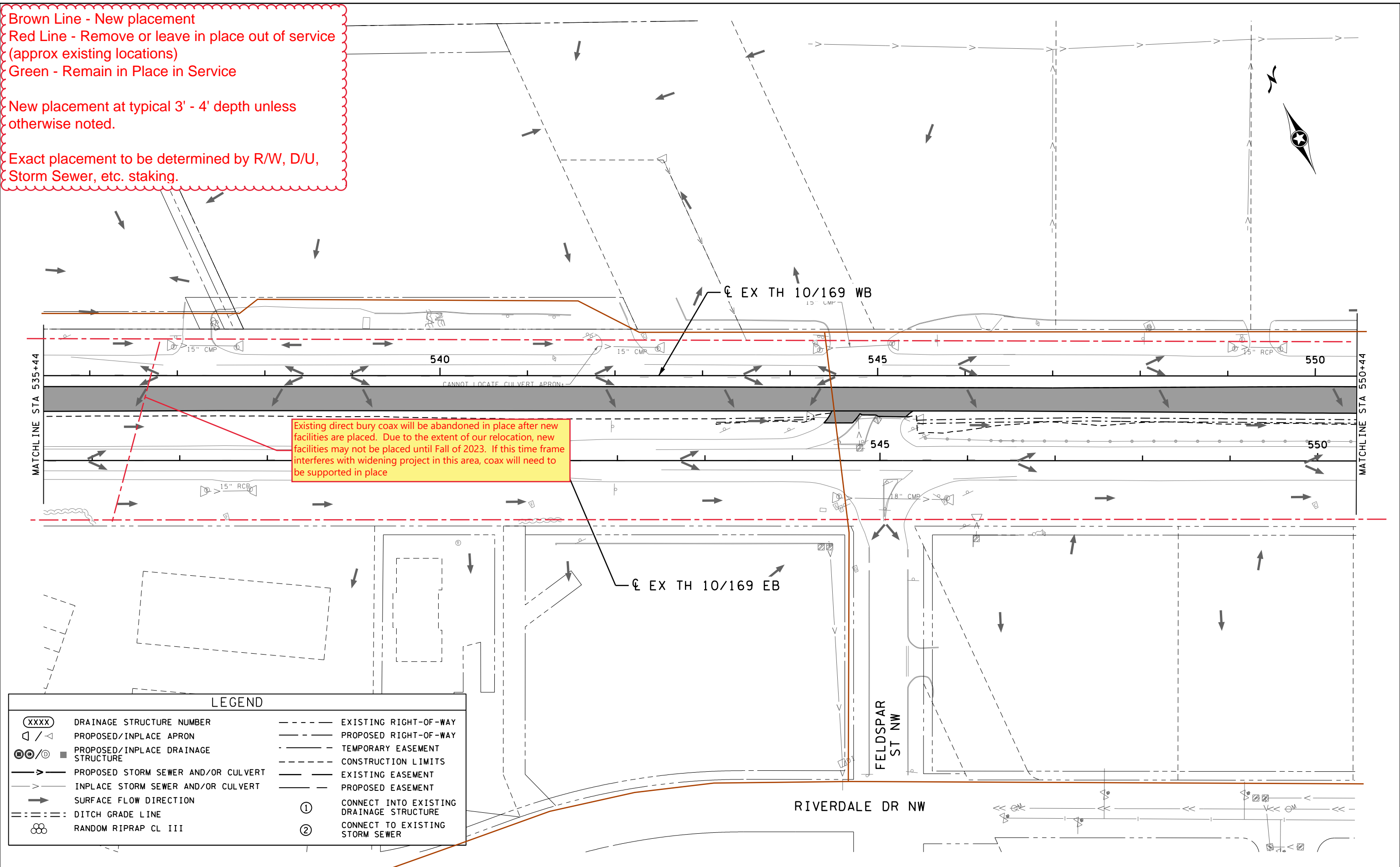
S.P. 0202-123 (TH 10)
 US HWY 10/169 TEMPORARY WIDENING
 DRAINAGE PLAN

SHEET
 102
 OF
 183

Brown Line - New placement
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LEGEND	
XXXX	DRAINAGE STRUCTURE NUMBER
□ / △	PROPOSED/INPLACE APRON
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE
→	PROPOSED STORM SEWER AND/OR CULVERT
→	INPLACE STORM SEWER AND/OR CULVERT
→	SURFACE FLOW DIRECTION
- - - -	DITCH GRADE LINE
⊗	RANDOM RIPRAP CL III
- - - -	EXISTING RIGHT-OF-WAY
- - - -	PROPOSED RIGHT-OF-WAY
- - - -	TEMPORARY EASEMENT
- - - -	CONSTRUCTION LIMITS
- - - -	EXISTING EASEMENT
- - - -	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
②	CONNECT TO EXISTING STORM SEWER

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 DATE 2-8-2023

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 CHECKED JLP

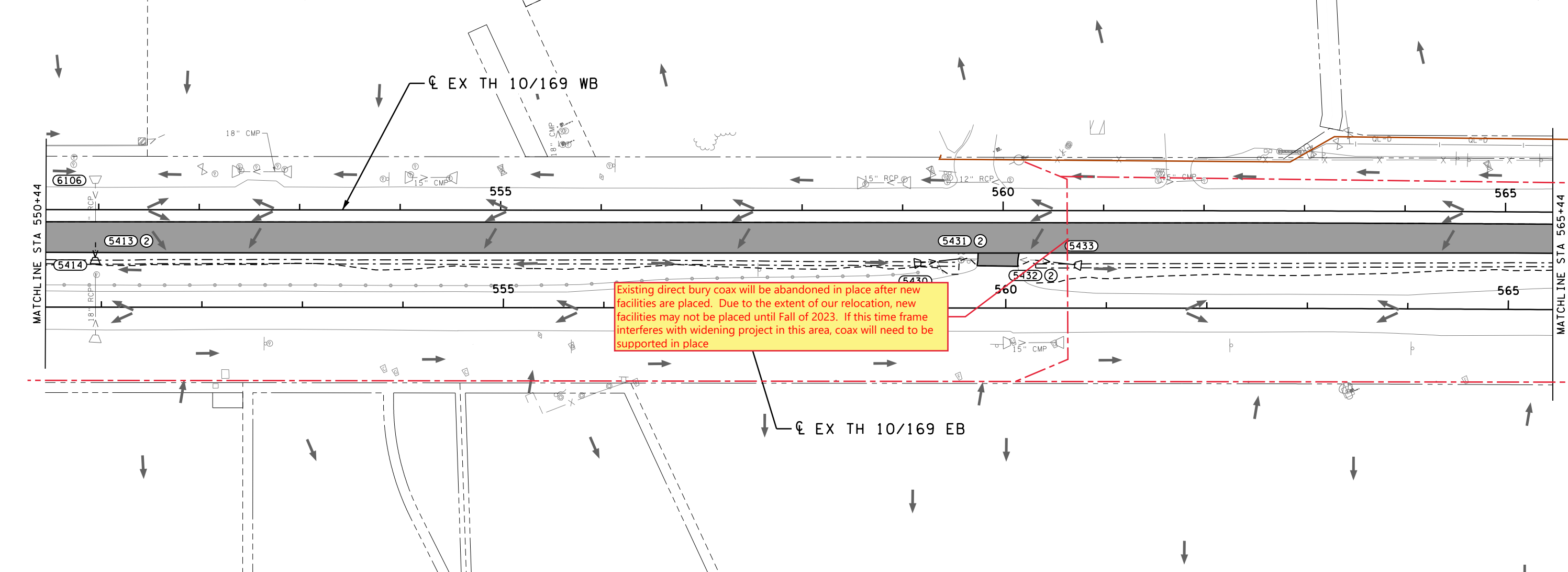
S.P. 0202-123 (TH 10)
 US HWY 10/169 TEMPORARY WIDENING
 DRAINAGE PLAN

SHEET 103 OF 183

Brown Line - New placement
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LEGEND			
(XXXX)	DRAINAGE STRUCTURE NUMBER	---	EXISTING RIGHT-OF-WAY
□ / ▽	PROPOSED/INPLACE APRON	---	PROPOSED RIGHT-OF-WAY
⊙ / ⊚	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	TEMPORARY EASEMENT
→	PROPOSED STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	INPLACE STORM SEWER AND/OR CULVERT	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
---	DITCH GRADE LINE	①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
⊗	RANDOM RIPRAP CL III	②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET			
STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5413	107	5432	111
5414	107	5433	111
5430	111	6106	107
5431	111		

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SCALE 0 50 100 FEET

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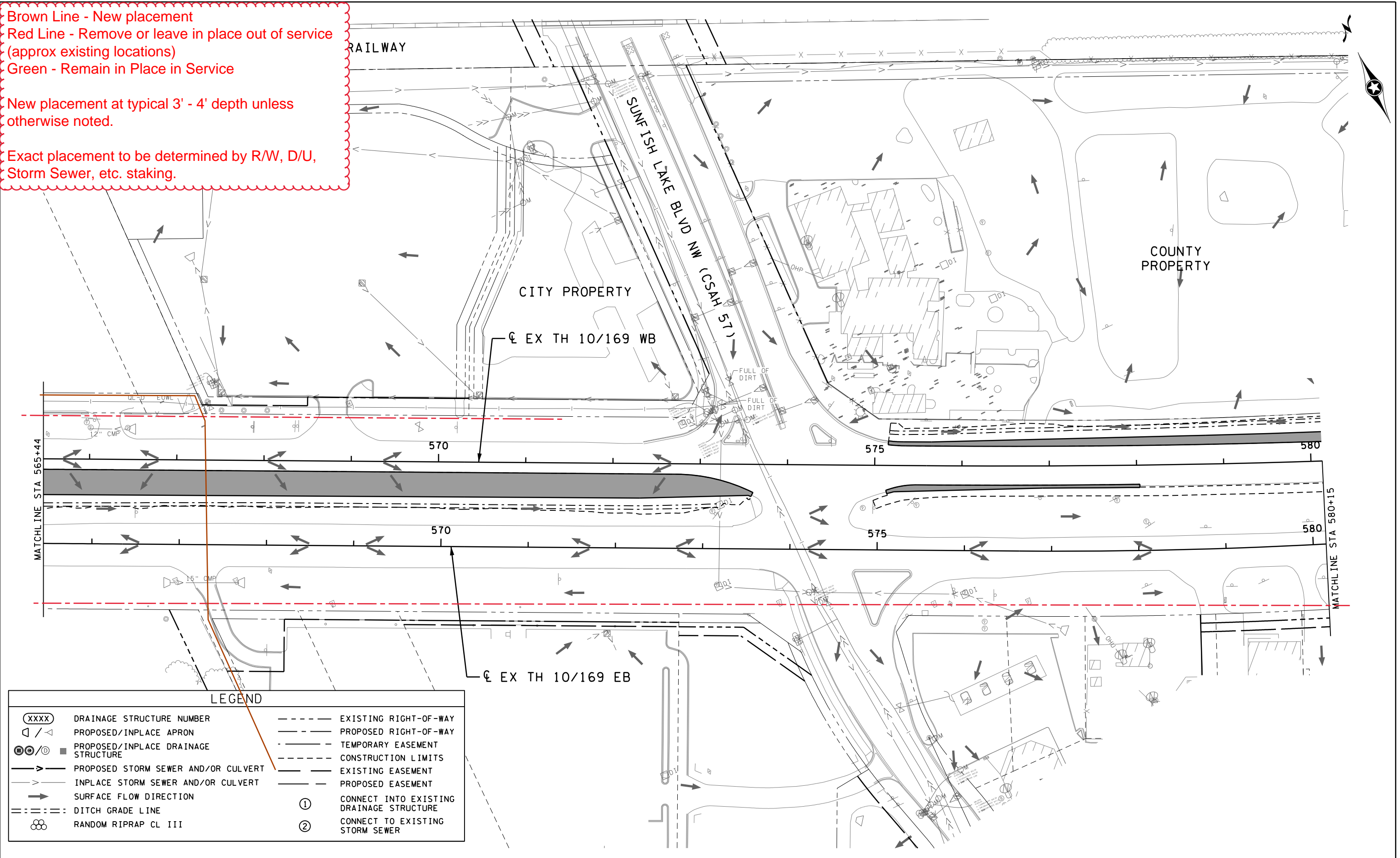
S.P. 0202-123 (TH 10)
 US HWY 10/169 TEMPORARY WIDENING
 DRAINAGE PLAN

SHEET 104 OF 183

Brown Line - New placement
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Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



LEGEND	
(XXXX)	DRAINAGE STRUCTURE NUMBER
□ / ▽	PROPOSED/INPLACE APRON
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE
→	PROPOSED STORM SEWER AND/OR CULVERT
→	INPLACE STORM SEWER AND/OR CULVERT
→	SURFACE FLOW DIRECTION
- - - - -	DITCH GRADE LINE
⊗	RANDOM RIPRAP CL III
- - - - -	EXISTING RIGHT-OF-WAY
- - - - -	PROPOSED RIGHT-OF-WAY
- - - - -	TEMPORARY EASEMENT
- - - - -	CONSTRUCTION LIMITS
- - - - -	EXISTING EASEMENT
- - - - -	PROPOSED EASEMENT
①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
②	CONNECT TO EXISTING STORM SEWER

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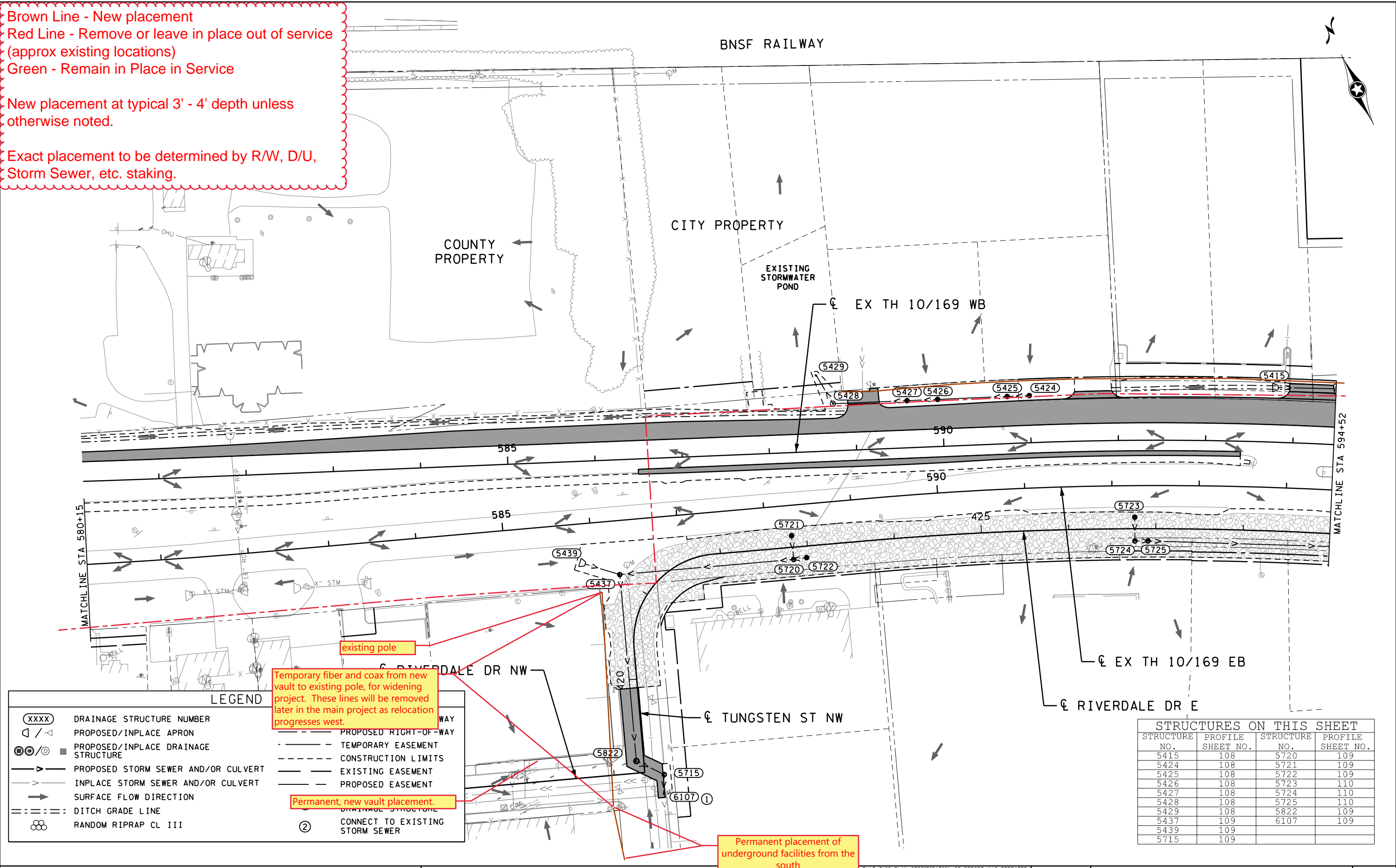
JOHN L. PERKINS
 LIC. NO. 56278
 DATE 2-8-2023

DESIGNED JLP	S.P. 0202-123 (TH 10) US HWY 10/169 TEMPORARY WIDENING DRAINAGE PLAN	SHEET 105 OF 183
DRAWN NTS		
CHECKED JLP		

Brown Line - New placement
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 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.



LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	---	PROPOSED RIGHT-OF-WAY
□ / ▽	PROPOSED/INPLACE APRON	---	TEMPORARY EASEMENT
⊙ / ⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	CONSTRUCTION LIMITS
→	PROPOSED STORM SEWER AND/OR CULVERT	---	EXISTING EASEMENT
→	INPLACE STORM SEWER AND/OR CULVERT	---	PROPOSED EASEMENT
→	SURFACE FLOW DIRECTION	②	CONNECT TO EXISTING STORM SEWER
---	DITCH GRADE LINE		
⊗	RANDOM RIPRAP CL III		

existing pole

Temporary fiber and coax from new vault to existing pole, for widening project. These lines will be removed later in the main project as relocation progresses west.

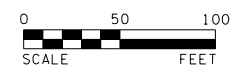
Permanent, new vault placement.

Permanent placement of underground facilities from the south

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5415	108	5720	109
5424	108	5721	109
5425	108	5722	109
5426	108	5723	110
5427	108	5724	110
5428	108	5725	110
5429	108	5822	109
5437	109	6107	109
5439	109		
5715	109		

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S.P. 0202-123 (TH 10)
 US HWY 10/169 TEMPORARY WIDENING
 DRAINAGE PLAN

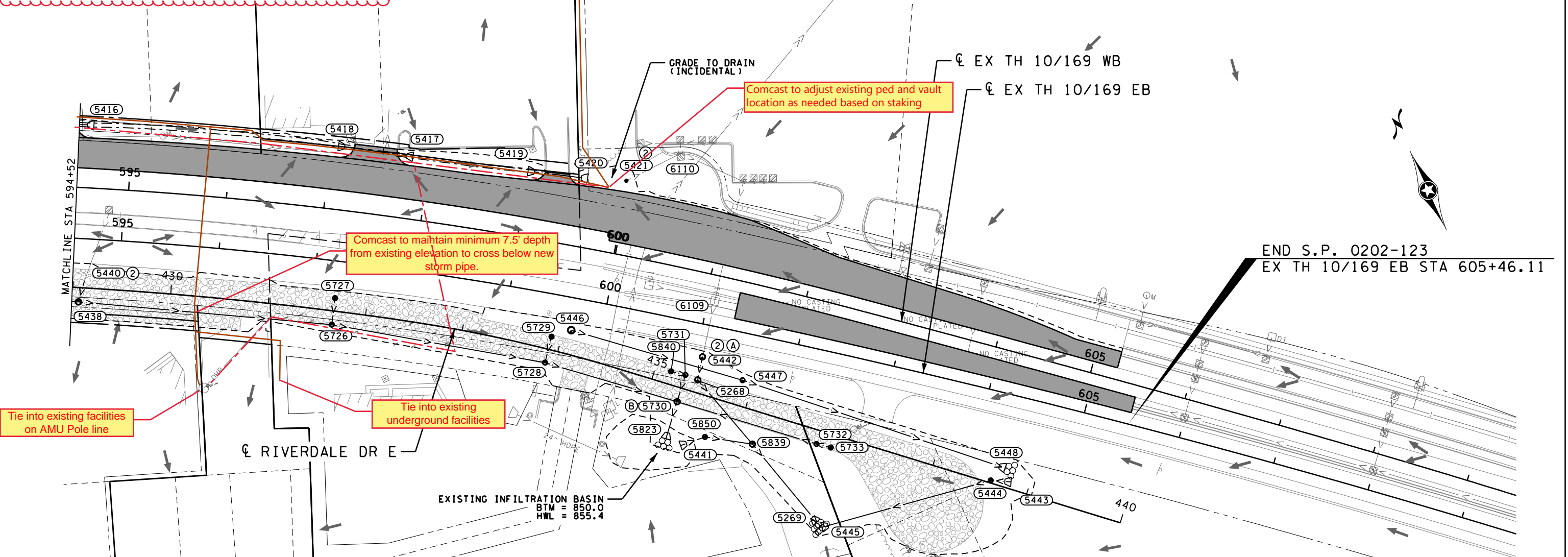
SHEET 106 OF 183

Brown Line - New placement
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 Green - Remain in Place in Service

New placement at typical 3' - 4' depth unless otherwise noted.

Exact placement to be determined by R/W, D/U, Storm Sewer, etc. staking.

- SPECIFIC NOTES:**
- (A) STRUCTURE 5442 TO INCLUDE A 5' SUMP AND STRUCTURAL POLLUTION CONTROL DEVICE. (INCIDENTAL TO STRUCTURE 5442)
 - (B) STRUCTURE 5730 TO INCLUDE A 4' SUMP.



LEGEND

(XXXX)	DRAINAGE STRUCTURE NUMBER	---	EXISTING RIGHT-OF-WAY
□ / ▽	PROPOSED/INPLACE APRON	---	PROPOSED RIGHT-OF-WAY
⊙/⊙	PROPOSED/INPLACE DRAINAGE STRUCTURE	---	TEMPORARY EASEMENT
→	PROPOSED STORM SEWER AND/OR CULVERT	---	CONSTRUCTION LIMITS
→	INPLACE STORM SEWER AND/OR CULVERT	---	EXISTING EASEMENT
→	SURFACE FLOW DIRECTION	---	PROPOSED EASEMENT
---	DITCH GRADE LINE	①	CONNECT INTO EXISTING DRAINAGE STRUCTURE
⊗	RANDOM RIPRAP CL III	②	CONNECT TO EXISTING STORM SEWER

STRUCTURES ON THIS SHEET

STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.	STRUCTURE NO.	PROFILE SHEET NO.
5268	112	5443	113	5732	111
5269	112	5444	113	5733	111
5416	109	5445	113	5823	112
5417	109	5446	113	5839	112
5418	109	5447	113	5840	112
5419	110	5448	113	5850	113
5420	110	5726	111	6109	N/A
5421	110	5727	112	6110	N/A
5438	111	5728	111		
5440	111	5729	112		
5441	113	5730	112		
5442	112	5731	112		

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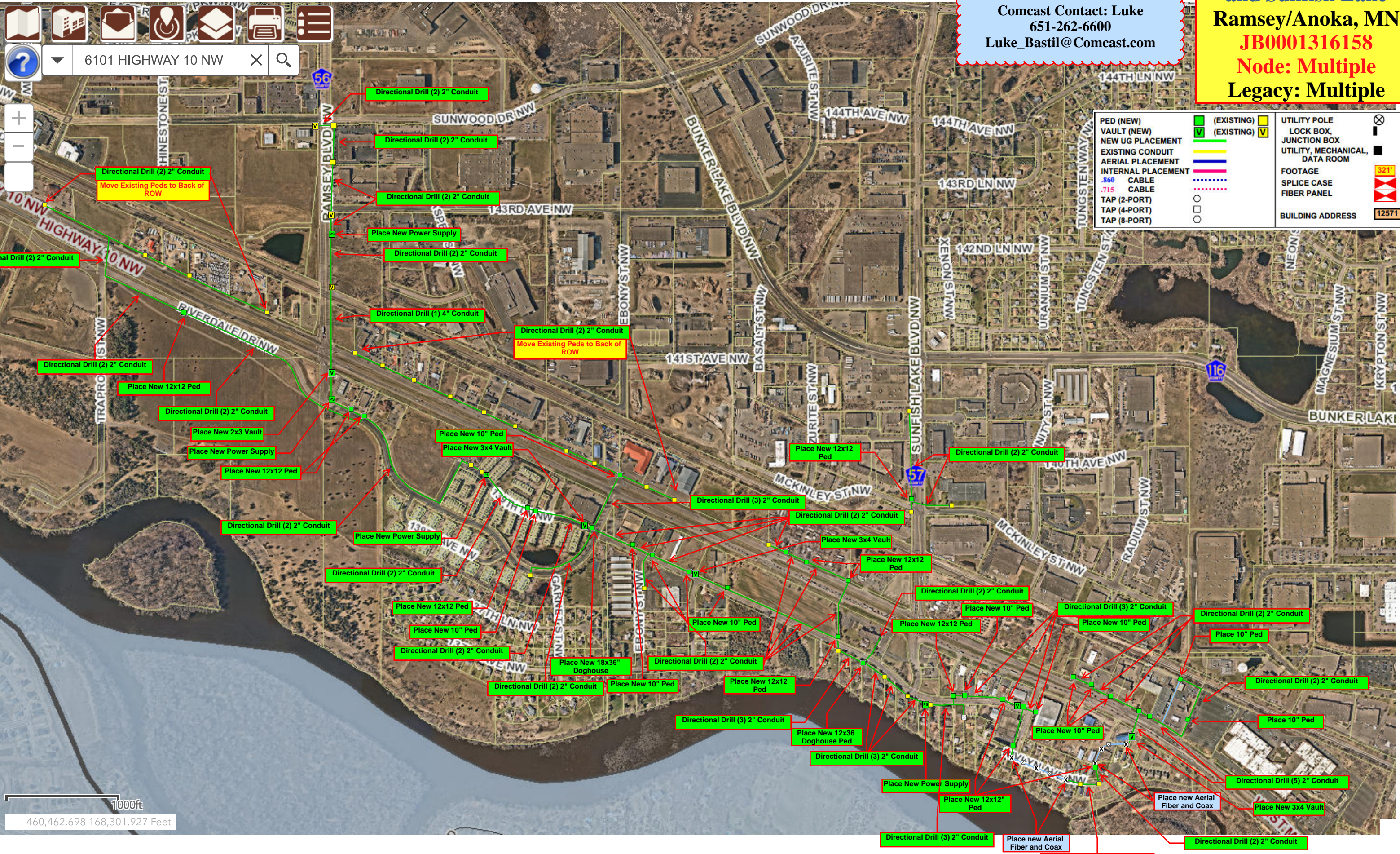
6101 HIGHWAY 10 NW



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 651-249-5108
 Lmorrison@USI-Universal.com
 Comcast Contact: Luke
 651-262-6600
 Luke_Bastil@Comcast.com

Forced Relo
6021 Hwy 10 Ramsey
and Sunfish Lake
Ramsey/Anoka, MN
JB0001316158
Node: Multiple
Legacy: Multiple

PED (NEW)	(EXISTING)	UTILITY POLE	⊗
VAULT (NEW)	(EXISTING)	LOCK BOX	⊠
NEW UG PLACEMENT		JUNCTION BOX	⊞
EXISTING CONDUIT		UTILITY, MECHANICAL, DATA ROOM	■
AERIAL PLACEMENT		FOOTAGE	321'
INTERNAL PLACEMENT		SPLICE CASE	⊞
.860 CABLE		FIBER PANEL	⊞
.715 CABLE		BUILDING ADDRESS	12571
TAP (2-PORT)	○		
TAP (4-PORT)	□		
TAP (8-PORT)	○		



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 460,462.698 168,301.927 Feet