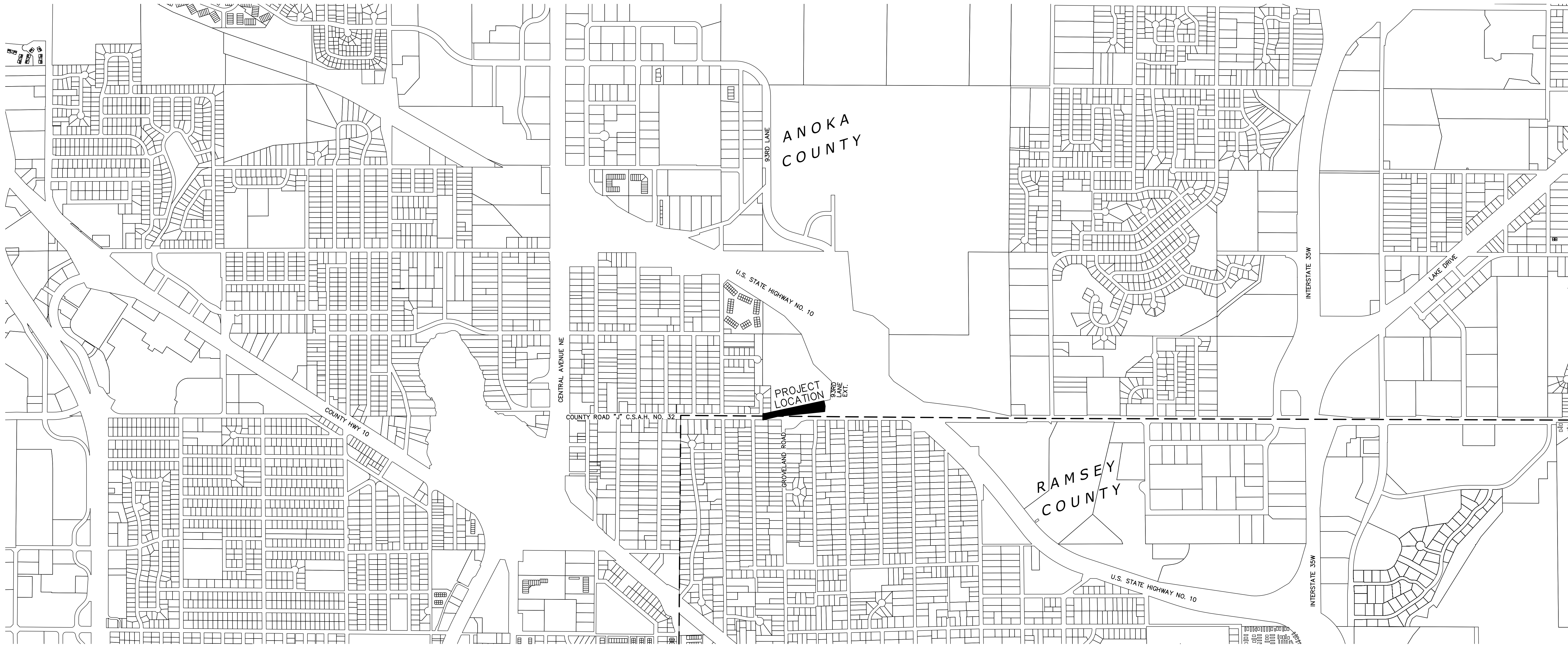


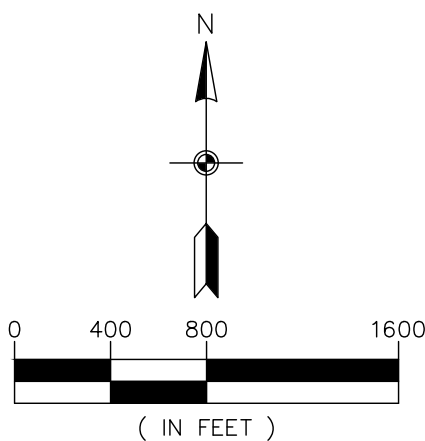
GROVELAND VILLAGE

CONSTRUCTION PLANS FOR TURN LANES INCLUDING; GRADING, STORM SEWER, STREETS, SIGNING AND STRIPING BLAINE, MINNESOTA



SHEET INDEX

- T1. COVER
- T2. REMOVALS & GRADING, DRAINAGE & EROSION CONTROL PLAN
- T3. SITE & UTILITY PLAN
- T4. SIGNING & STRIPING PLAN
- T5. CROSS SECTIONS
- T6. TRAFFIC CONTROL PLAN



APPROVED: BLAINE CITY ENGINEER	DATE	APPROVED: ANOKA COUNTY ENGINEER	DATE
--------------------------------	------	---------------------------------	------



ENGINEERING
SURVEYING
ENVIRONMENTAL

3890 PHEASANT RIDGE DR NE
SUITE 100
BLAINE, MN 55449
TEL 763.489.7900
FAX 763.489.7959
CARLSONMCCAIN.COM

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Print Name: Aaron D. Briski, P.E.
Signature: *Aaron Briski*
Date: 2/18/21 License #: 57811

Drawn: ADB
Designed: ADB
Date: 2/18/21

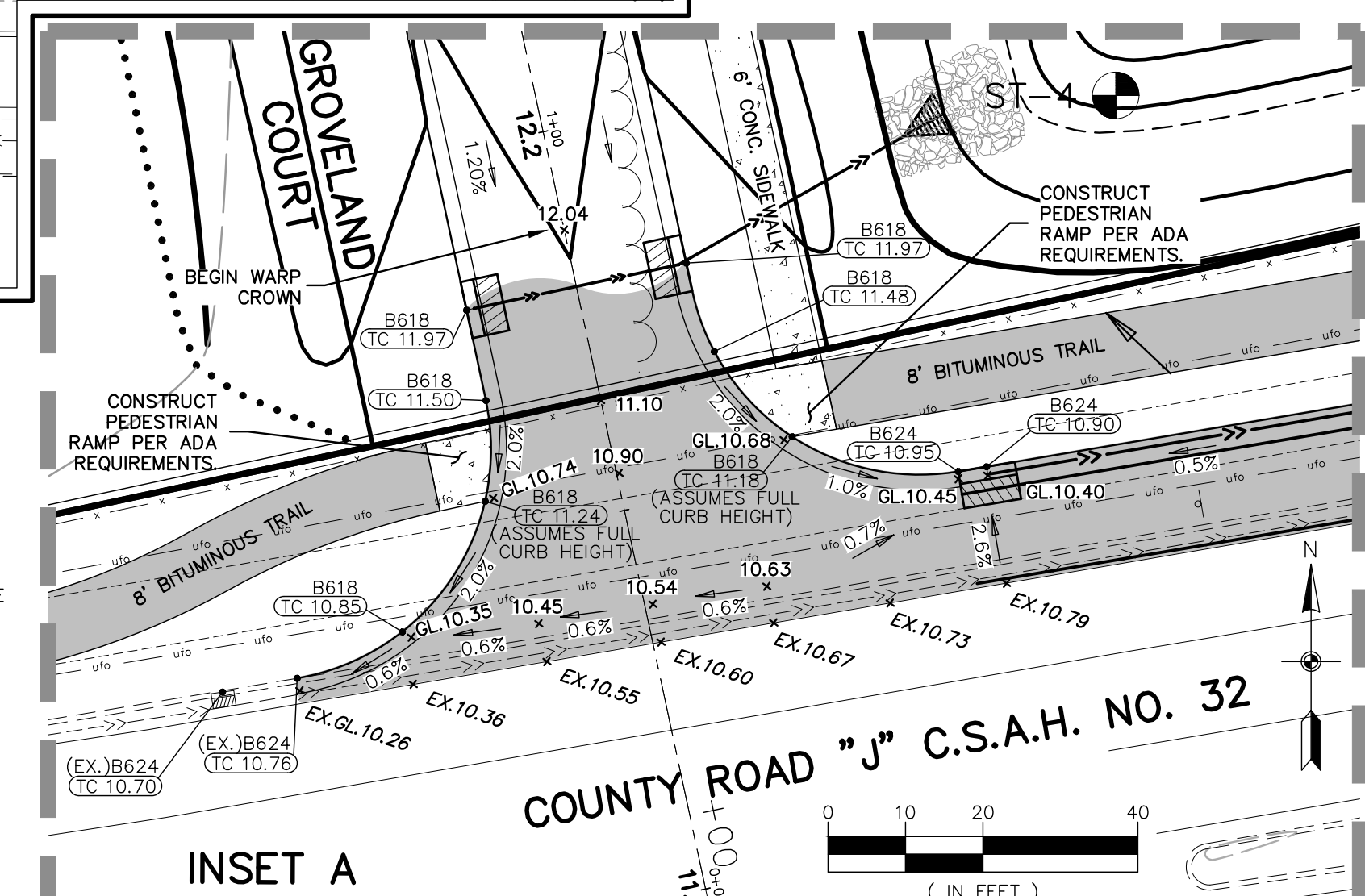
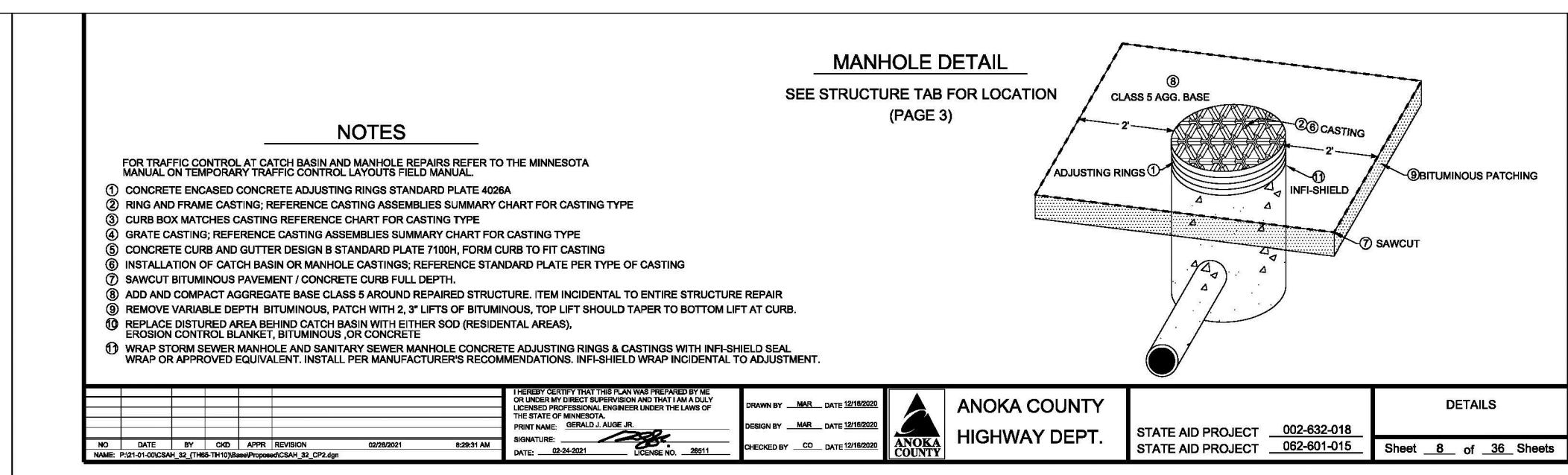
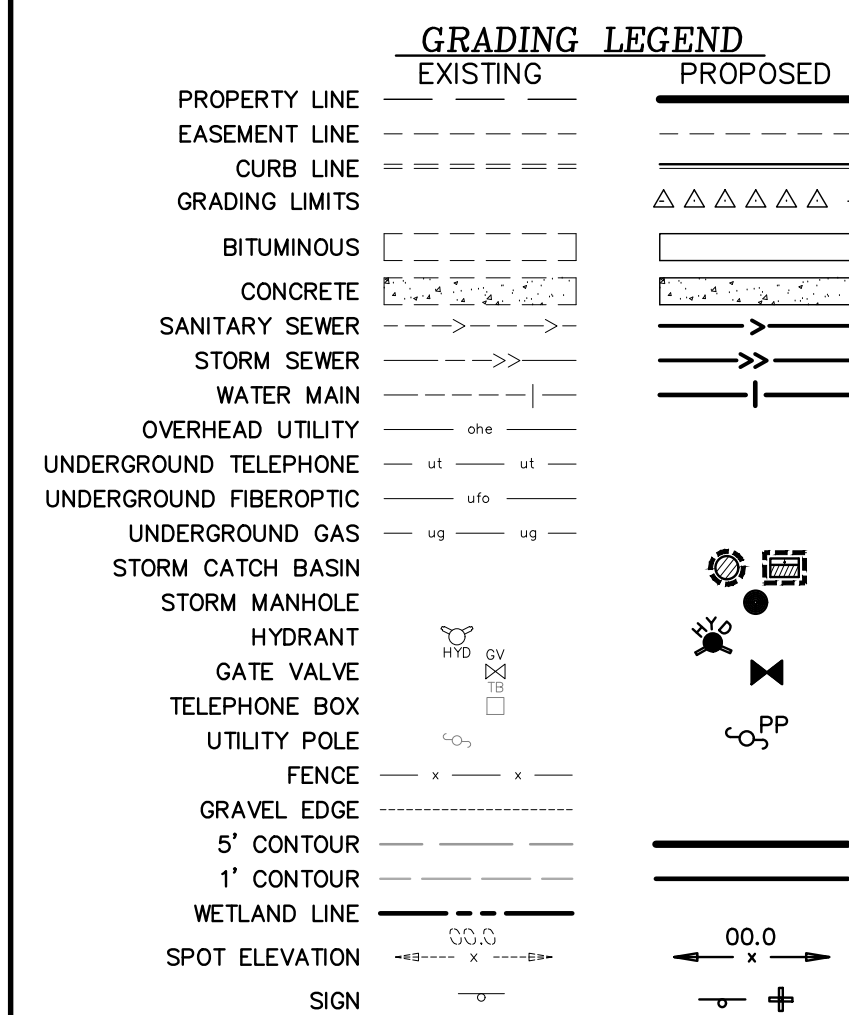
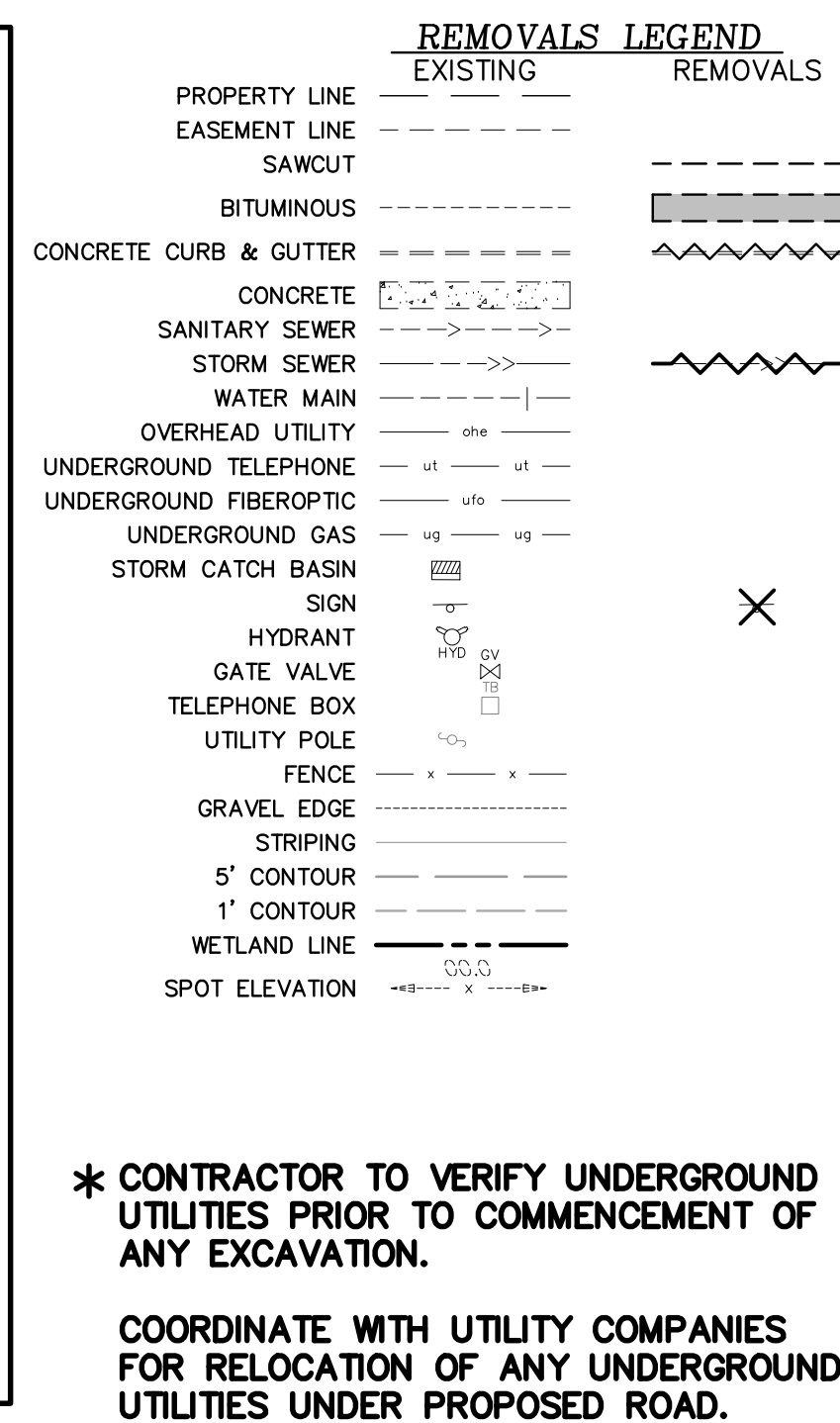
Revisions:
1. 4/12/21 per ACHD Comments
2. 4/15/21 per ACHD Comments (Sheet T4)

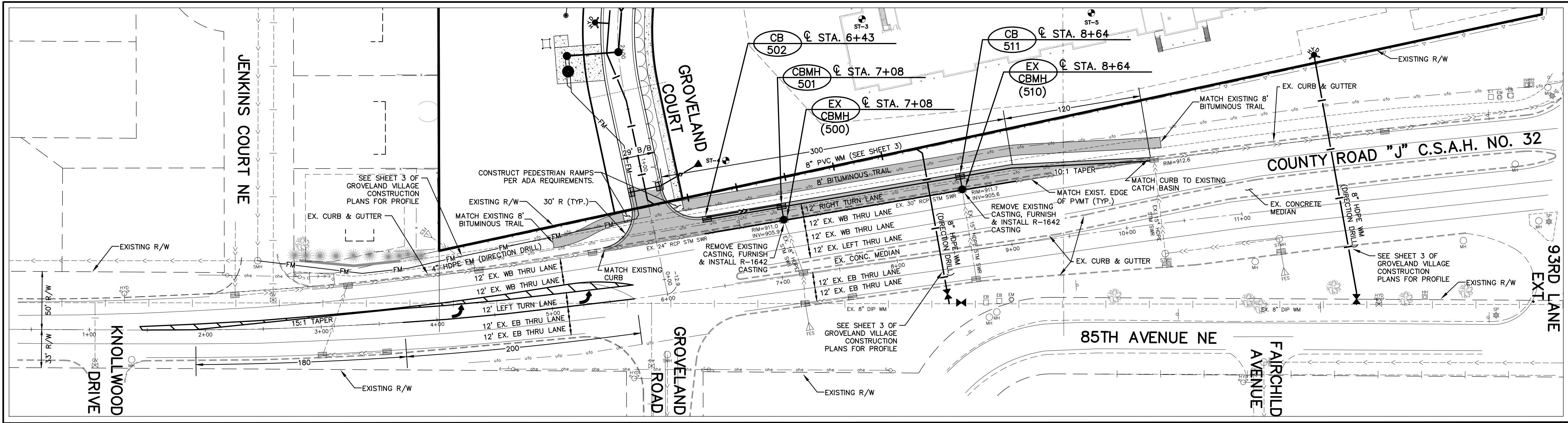
M/I HOMES
5354 Parkdale Drive
St. Louis Park, MN 55416

GROVELAND VILLAGE
1ST ADDITION
Blaine, MN

COVER SHEET

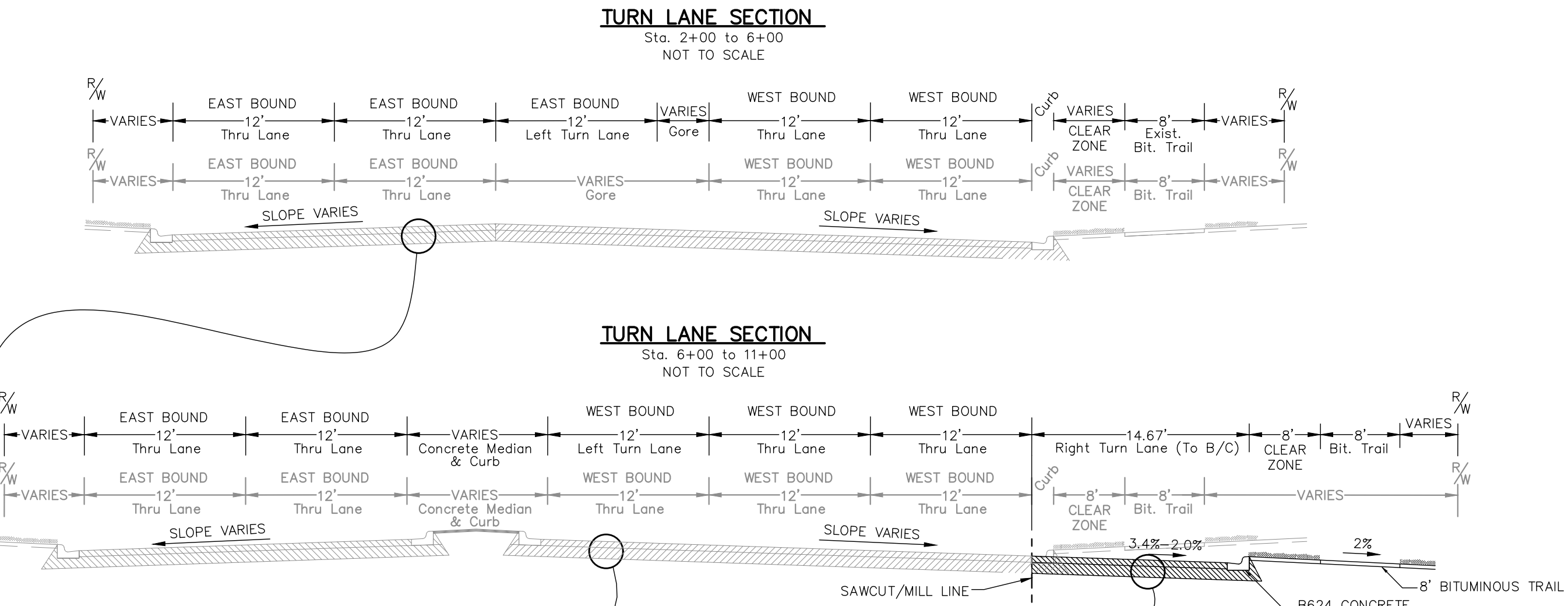
T1
of
T6





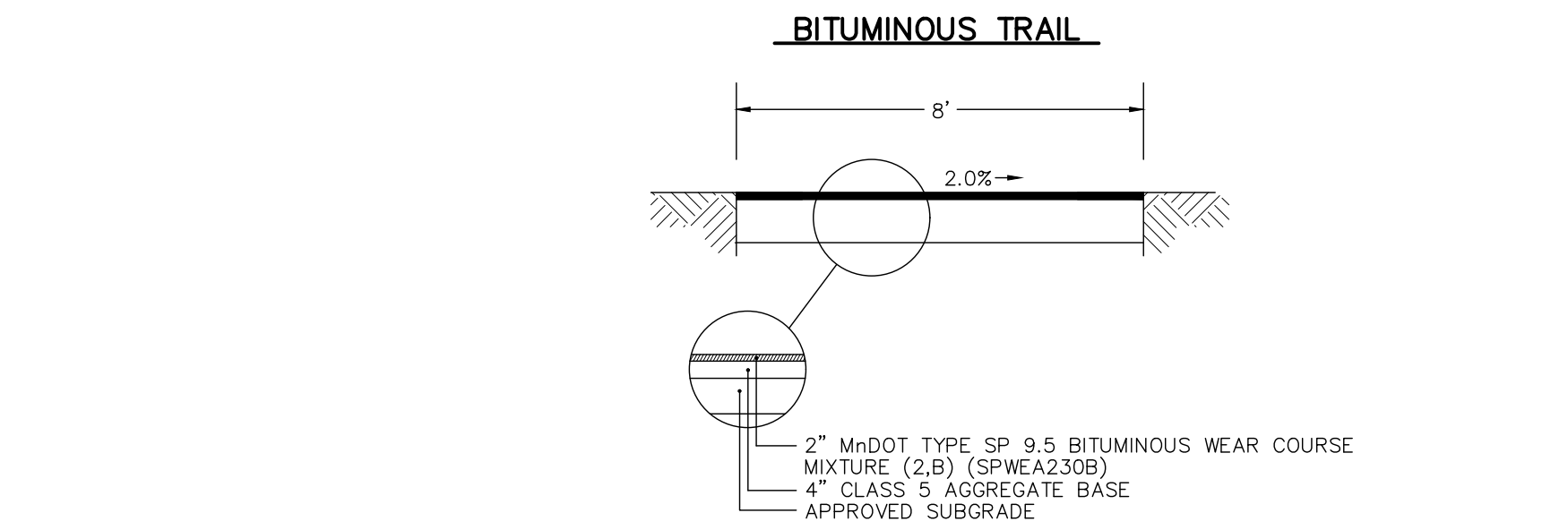
STORM SEWER SCHEDULE		
STRUCTURE		NEENAH CASTING or EQUAL
TYPE & No.	SIZE	
CB-502	DESIGN H	R-3250-DV
CBMH-501	48" DIA.	R-3250-DV
EX.CBMH-201		R-1642
CB-511	DESIGN H	R-3250-DV
EX.CBMH-210		R-1642

LEGEND	
EXISTING	PROPOSED
PROPERTY LINE	-----
EASEMENT LINE	-----
CURB LINE	-----
BITUMINOUS	-----
GRAVEL	-----
CONCRETE	-----
SANITARY SEWER	-----
FORCEMAIN	-----
STORM SEWER	-----
WATER MAIN	-----
OVERHEAD UTILITY	-----
UNDERGROUND TELEPHONE	-----
UNDERGROUND FIBEROPTIC	-----
UNDERGROUND GAS	-----
STORM CATCH BASIN	-----
STORM MANHOLE	-----
HYDRANT	-----
GATE VALVE	-----
TELEPHONE BOX	-----
UTILITY POLE	-----
FENCE	-----
GRAVEL EDGE	-----
STRIPING	-----
WETLAND LINE	-----
SIGN	-----
TREELINE	-----



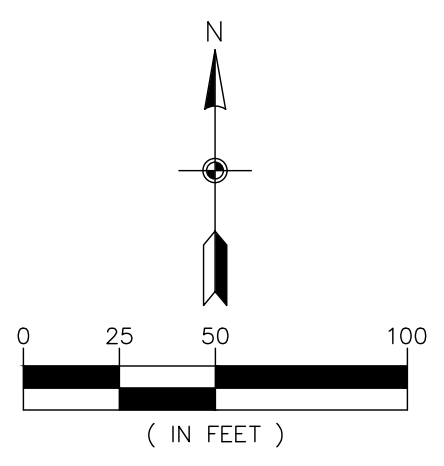
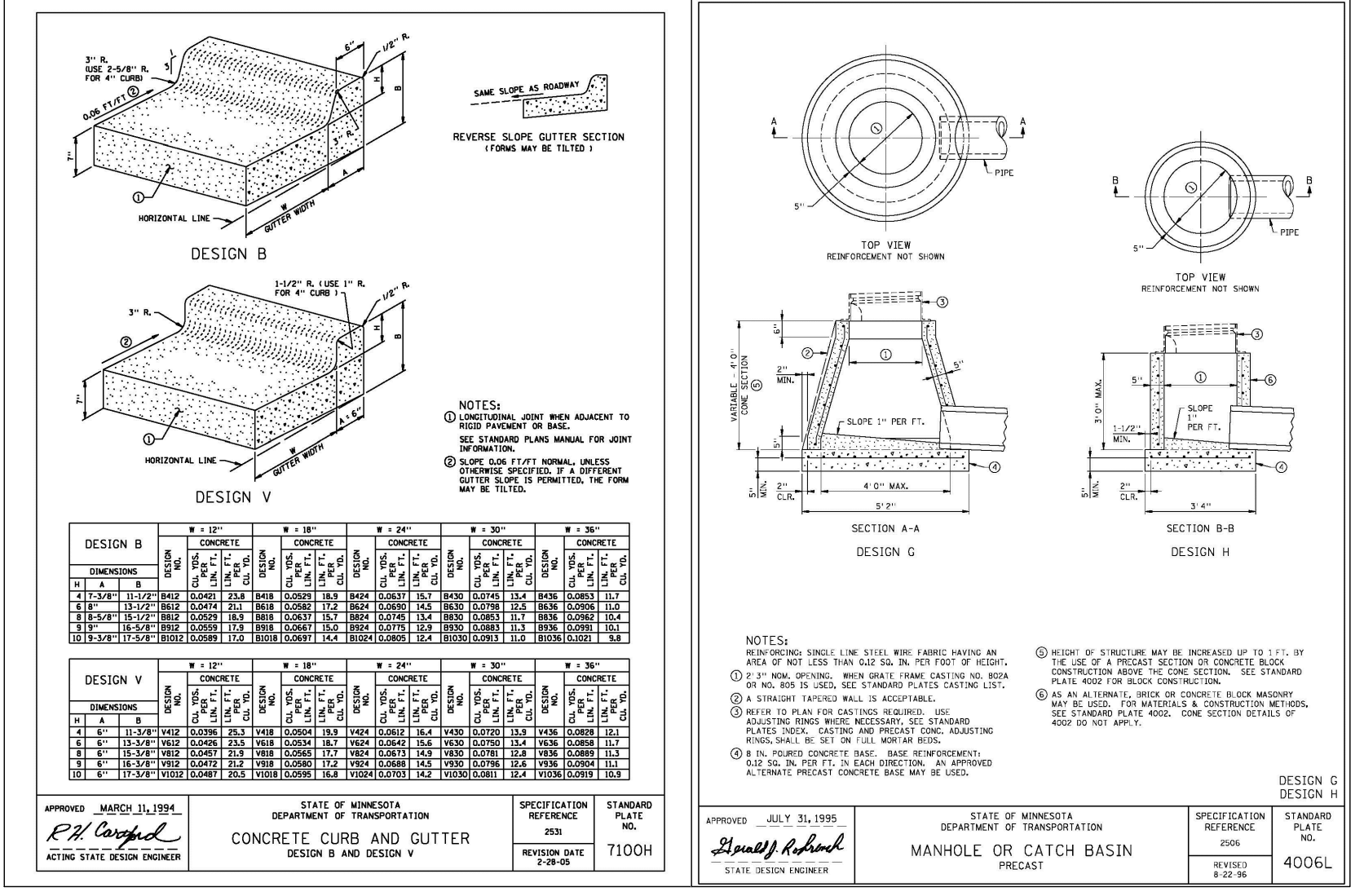
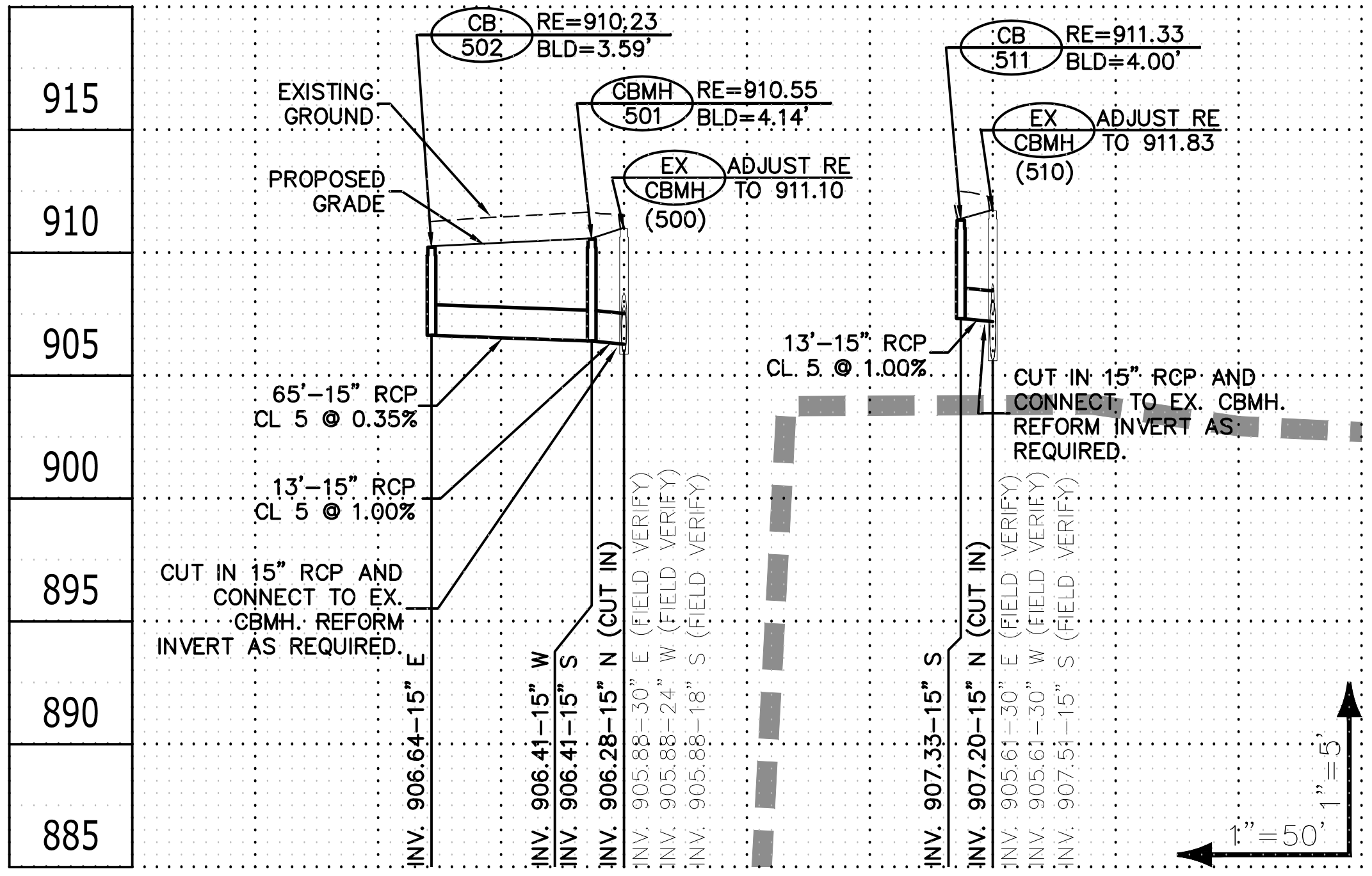
EXISTING PAVEMENT SECTION*	
(PER ANOKA COUNTY PROJECT 002-632-05, YEAR:1989)	
1"-TYPE 61 BITUMINOUS WEAR COURSE, SPEC.2331	TACK COAT, SPEC. 2357
1.5"-TYPE 31 BITUMINOUS BINDER COURSE, SPEC.2331	TACK COAT, SPEC. 2357
5"-TYPE 31 BITUMINOUS NON-WEAR COURSE, SPEC. 2331	3"-CLASS 6 AGGREGATE BASE
*CONTRACTOR TO VERIFY EXISTING STREET SECTION. MATCH EXISTING SECTION.	

PAVEMENT SECTION	
(PER MN/DOT 2360)	
1.5"-TYPE SPWEB340F BITUMINOUS WEAR COURSE	BITUMINOUS TACK COAT
1.5"-TYPE SPWEB340F BITUMINOUS WEAR COURSE	BITUMINOUS TACK COAT
2"-TYPE SPWEB330B BITUMINOUS NON-WEAR COURSE	BITUMINOUS TACK COAT
2.5"-TYPE SPWEB330B BITUMINOUS NON-WEAR COURSE	BITUMINOUS TACK COAT
6"-CLASS 5 AGGREGATE BASE	



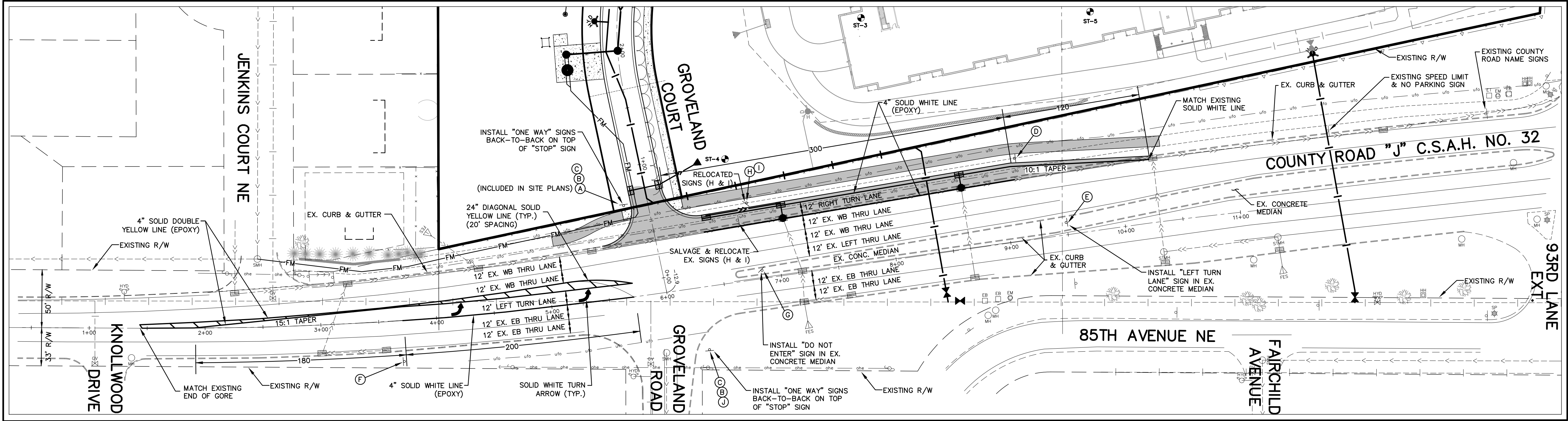
- TURN LANE NOTES**
- ALL GRADES ARE TO FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
 - GOVERNING SPECIFICATIONS SHALL BE THE LATEST EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION"
 - ALL TEMPORARY TRAFFIC CONTROL DEVICES AND ALL PERMANENT SIGNING & MARKINGS SHALL CONFORM TO THE MAUTOD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, 2018"
 - CONTRACTOR SHALL NOTIFY ANOKA COUNTY HIGHWAY DEPARTMENT AND SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO PERFORMING ANY WORK WITHIN THE COUNTY RIGHT-OF-WAY.
 - CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
 - ALL TURN LANE STRIPING SHALL BE COMPLETED USING EPOXY PAINT.
 - CONTRACTOR SHALL COORDINATE WORK AROUND AND RELOCATION OF SMALL UTILITIES.
 - CONTRACTOR TO CONTACT ANOKA COUNTY HIGHWAY DEPARTMENT 48 HOURS BEFORE STRIPING CONSTRUCTION.

CURB TYPES LEGEND	
-----	B624 CONCRETE CURB & GUTTER
-----	B618 CONCRETE CURB & GUTTER



CALL BEFORE YOU DIG

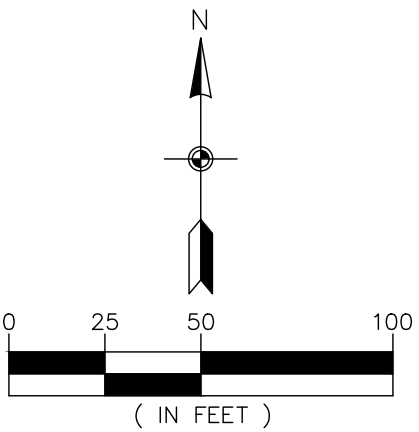
Know what's below.
Call before you dig.



LEGEND	
EXISTING	PROPOSED
PROPERTY LINE	---
EASEMENT LINE	---
CURB LINE	---
BITUMINOUS GRAVEL	---
CONCRETE	---
SANITARY SEWER	---
STORM SEWER	---
WATER MAIN	---
OVERHEAD UTILITY	---
UNDERGROUND TELEPHONE	---
UNDERGROUND FIBEROPTIC	---
UNDERGROUND GAS	---
STORM CATCH BASIN	---
STORM MANHOLE	---
HYDRANT	---
GATE VALVE	---
TELEPHONE BOX	---
UTILITY POLE	---
FENCE	---
GRAVEL EDGE	---
STRIPING	---
SIGN	---

- TURN LANE NOTES**
- ALL GRADES ARE TO FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
 - THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION 'STANDARD SPECIFICATIONS FOR CONSTRUCTION' SHALL GOVERN AS WELL AS THE CITY OF BLAINE SPECIFICATIONS.
 - ALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, 2018"
 - CONTRACTOR TO OBTAIN A PERMIT FROM ANOKA COUNTY HIGHWAY DEPARTMENT PRIOR TO PERFORMING ANY WORK WITHIN THE COUNTY RIGHT-OF-WAY.
 - ALL TURN LANE STRIPING SHALL BE COMPLETED USING EPOXY PAINT.
 - CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
 - CONTRACTOR SHALL COORDINATE WORK AROUND AND RELOCATION OF SMALL UTILITIES.
 - CONTRACTOR SHALL COORDINATE RELOCATION OF FIBER INTERCONNECT/CONDUIT & HAND HOLES W/ ANOKA COUNTY HIGHWAY DEPARTMENT.
 - CONTRACTOR TO CONTACT ANOKA COUNTY HIGHWAY DEPARTMENT 48 HOURS BEFORE STRIPING CONSTRUCTION.
 - APPLICABLE MNDOT STANDARD PLATES: 3022C, 4006L, 9000E, 4129G, 4154B, 4160D, 9102E

SIGN SCHEDULE			
SIGN	SIGN NO.	SIZE	QUANTITY
(A) STOP	R1-1	30" X 30" (WHITE ON RED)	(INCLUDED IN SITE PLANS)
(B) ONE WAY	R6-1R	36" X 12" (BLACK ON WHITE)	2
(C) ONE WAY	R6-1L	36" X 12" (BLACK ON WHITE)	2
(D) RIGHT TURN LANE	R3-7R	36" X 36" (BLACK ON WHITE)	1
(E) LEFT TURN LANE	R3-7L	36" X 36" (BLACK ON WHITE)	1
(F) ONLY ONLY ONLY	R3-8ACC	54" X 30" (BLACK ON WHITE)	1
(G) DO NOT ENTER	R5-1	36" X 36" (RED ON WHITE)	1
(H) DO NOT ENTER	R5-1	36" X 36" (RED ON WHITE)	SALVAGED
(I) NO LEFT TURN	R8-3	24" X 24" (BLACK AND RED ON WHITE)	SALVAGED
(J) STOP	R1-1	30" X 30" (WHITE ON RED)	SALVAGED

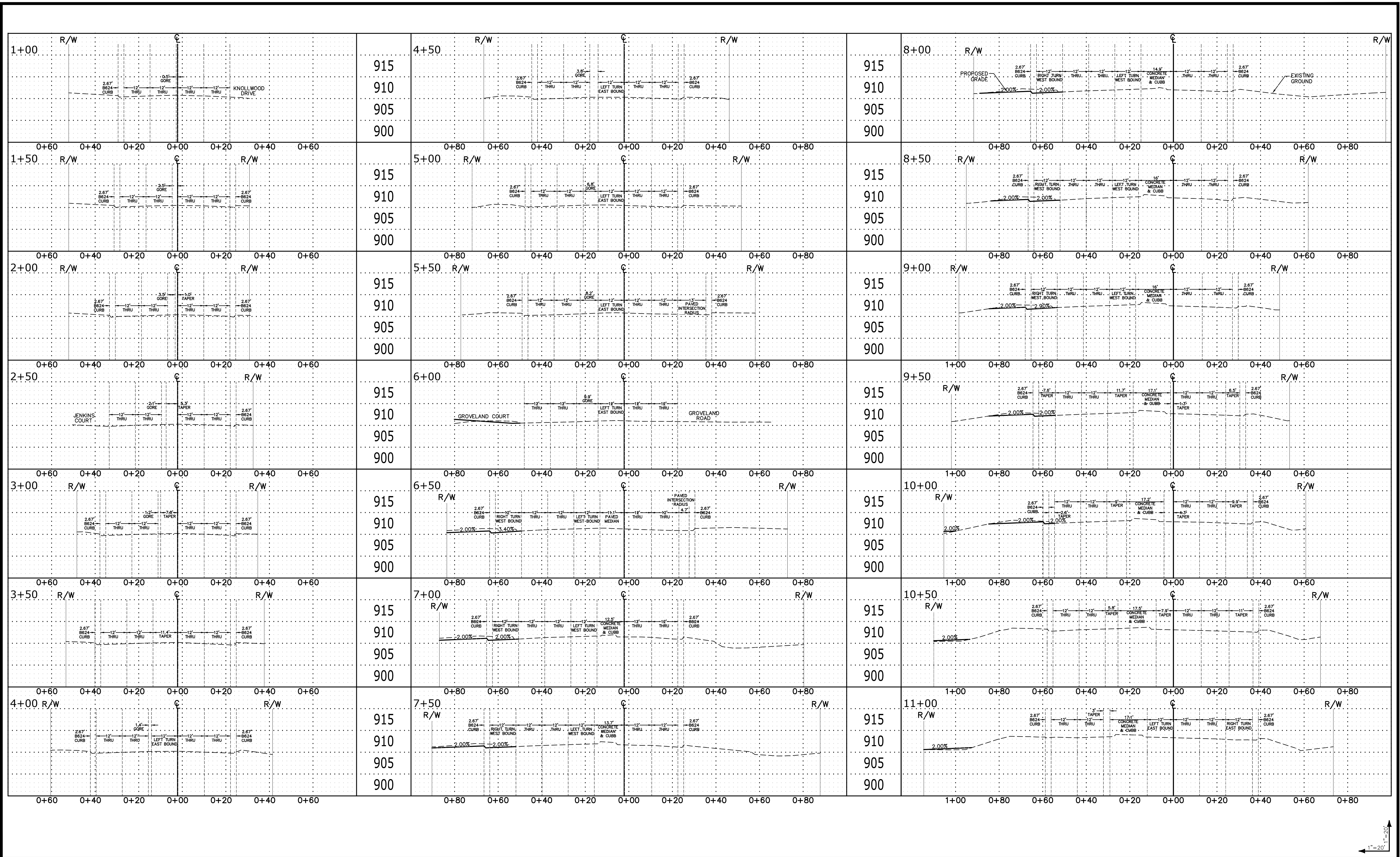


CALL BEFORE YOU DIG

811

Know what's below.
Call before you dig.

The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."

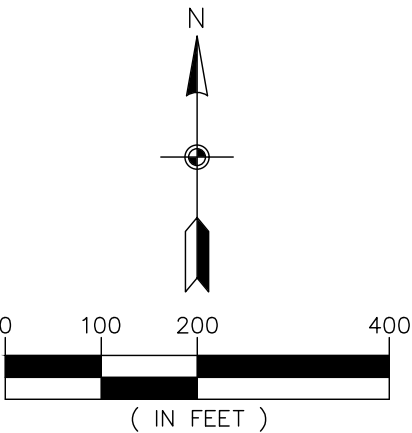




LEGEND		
	EXISTING	PROPOSED
PROPERTY LINE	---	---
EASEMENT LINE	---	---
CURB LINE	---	---
BITUMINOUS	---	---
CONCRETE	---	---
CONSTRUCTION AREA	---	---
TRAFFIC CONES	---	---
SIGN	---	---

SIGN SCHEDULE			
SIGN	QUANTITY	SIGN	QUANTITY
	8		2
	1		2
	1		1
(FLASHING ARROW BOARD)			

- NOTES:
- INTERMITTENT SIGNS SHALL BE USED FOR LOOSE GRAVEL, UNEVEN LANES, BUMP, ETC.
 - LANE WIDTHS MINIMUM 10'.
 - CONTRACTOR TO COMPLY WITH MnDOT LONGITUDINAL DROP OFF GUIDELINES (J-BARRIER MIGHT BE NEEDED)



CALL BEFORE YOU DIG

811

Know what's below.
Call before you dig.

The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."