HARVEST GRANGE

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

Lino Lakes, Minnesota



APPROVED: ANOKA COUNTY ENGINEER _____ DATE _____

SHEET INDEX

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

N

0 400 800 1600

(IN FEET)

BENCHMARKS

1. Minnesota Department of Transportation GSID Station #92399 (Name: 0282 S) ELEVATION: 931.46 ft. (NAVD88)
2. Minnesota Department of Transportation GSID Station #92394 (Name: 0282 N) ELEVATION: 911.43 ft. (NAVD88)

CALL BEFORE YOU DIG

811 Know what's **below.** **Call** before you dig.

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3890 PHEASANT RIDGE DR NE
SUITE 100
BLAINE, MN 55449
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FAX 763.489.7959
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Print Name: Justin J Olson
Signature: Justin J Olson
Date: 06/24/26 License #: 54231

Drawn: NJP
Designed: JJO
Date: 06/24/26

Revisions:
1. 8/26/26 Per County Comments
2. 10/1/26 Per County Comments

TCLD LAND HOLDINGS, LLC
4800 Olson Memorial Hwy - #100
Golden Valley, MN 55422

HARVEST GRANGE

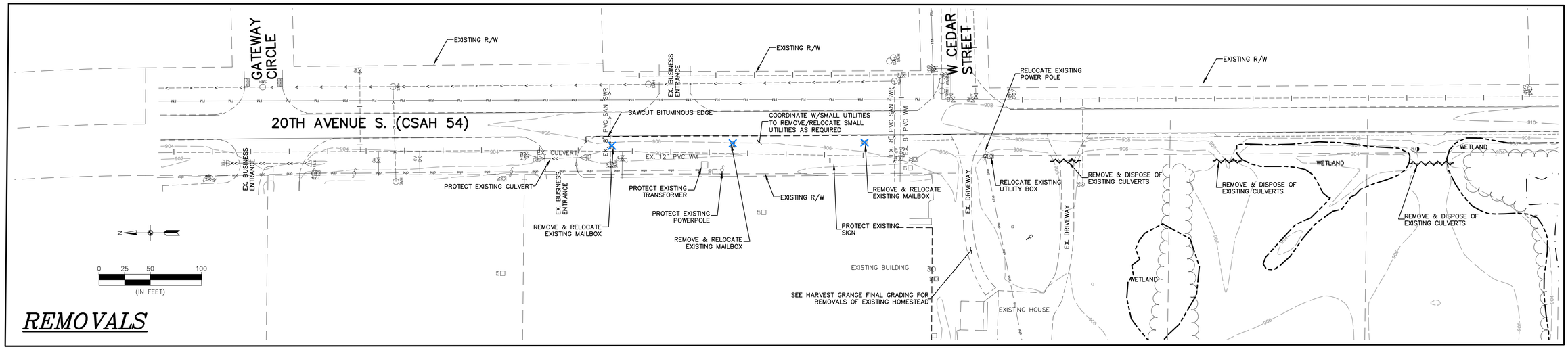
HARVEST GRANGE
Lino Lakes, MN

COVER SHEET

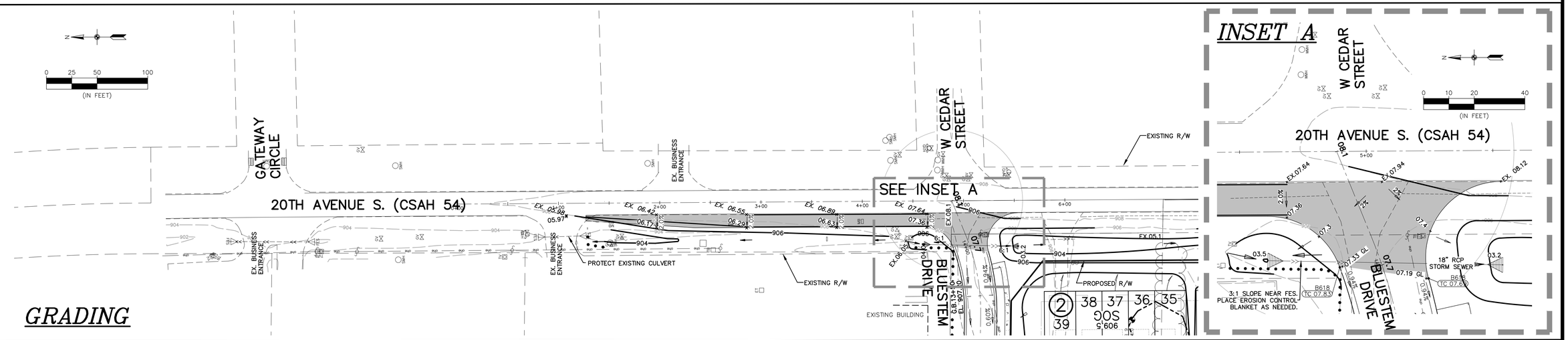
T1 of T5

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#11343



REMOVALS



GRADING

REMOVALS LEGEND

	EXISTING	REMOVALS
PROPERTY LINE		
EASEMENT LINE		
SAWCUT		
BITUMINOUS		MILL
GRAVEL		
CONCRETE		
SANITARY SEWER		
STORM SEWER		
WATER MAIN		
OVERHEAD UTILITY		
UNDERGROUND TELEPHONE		
UNDERGROUND FIBEROPTIC		
UNDERGROUND GAS		
STORM CATCH BASIN		
SIGN		
HYDRANT		
GATE VALVE		
TELEPHONE BOX		
UTILITY POLE		
FENCE		
GRAVEL EDGE		
STRIPING		
5' CONTOUR		
1' CONTOUR		
WETLAND LINE		
SPOT ELEVATION		
TREE		

GRADING LEGEND

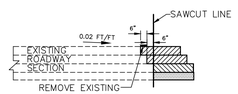
	EXISTING	PROPOSED
PROPERTY LINE		
EASEMENT LINE		
CURB LINE		
GRADING LIMITS		
BITUMINOUS		
CONCRETE		
SANITARY SEWER		
STORM SEWER		
WATER MAIN		
OVERHEAD UTILITY		
UNDERGROUND TELEPHONE		
UNDERGROUND FIBEROPTIC		
UNDERGROUND GAS		
STORM CATCH BASIN		
STORM MANHOLE		
HYDRANT		
GATE VALVE		
TELEPHONE BOX		
UTILITY POLE		
FENCE		
GRAVEL EDGE		
5' CONTOUR		
1' CONTOUR		
WETLAND LINE		
SPOT ELEVATION		
SIGN		
TREELINE		

* CONTRACTOR TO VERIFY UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.

COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF ANY UNDERGROUND UTILITIES UNDER PROPOSED ROAD.

SAWCUT & MILLING DETAIL

NOT TO SCALE



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0 10 20 40
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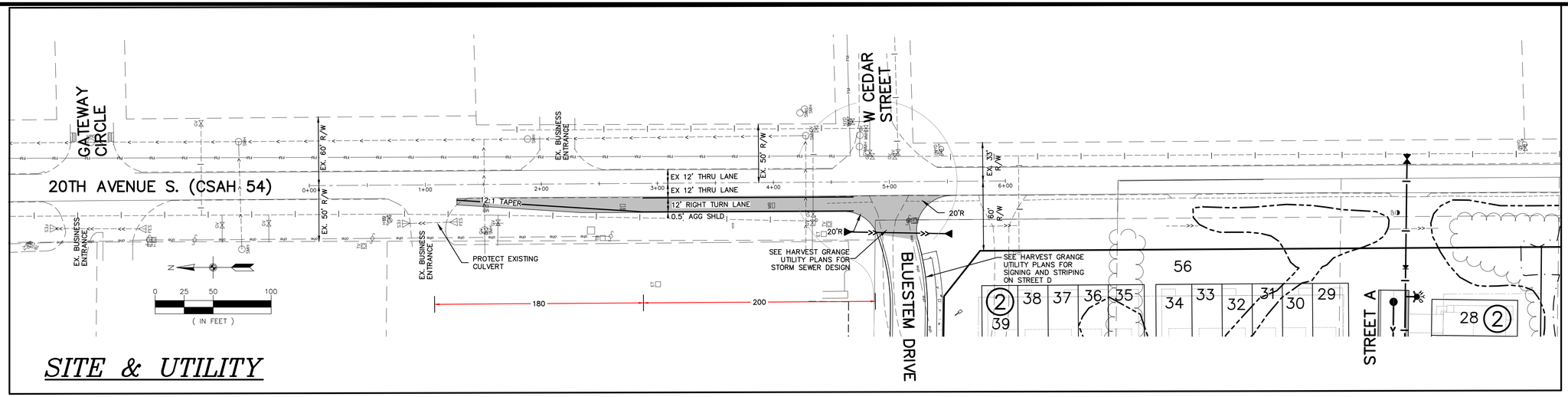
HARVEST GRANGE
Lino Lakes, MN

REMOVALS & GRADING, DRAINAGE & EROSION CONTROL PLAN

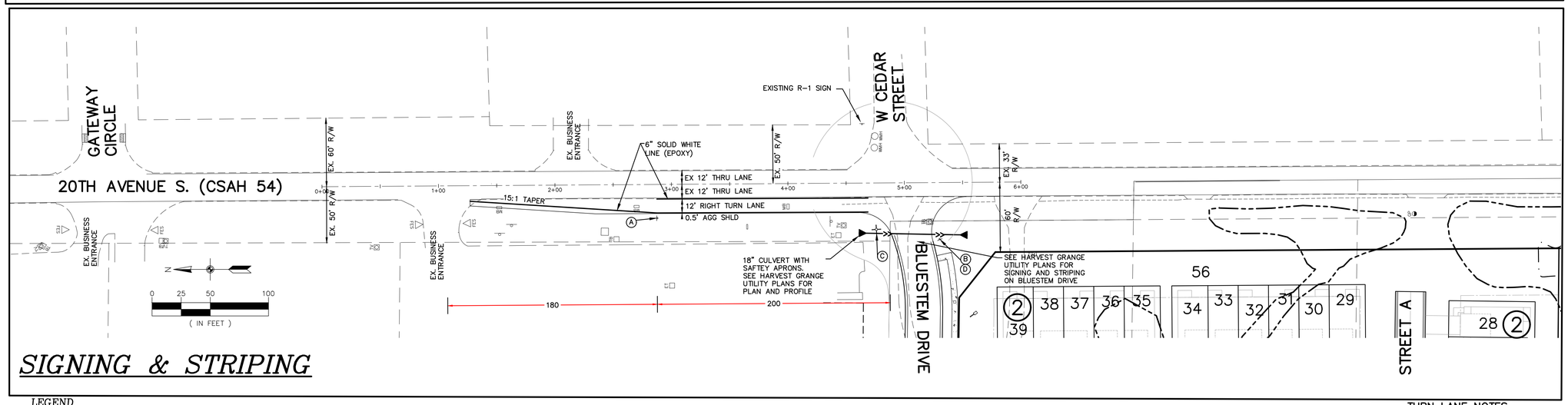
T2 of T5

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#11343



SITE & UTILITY



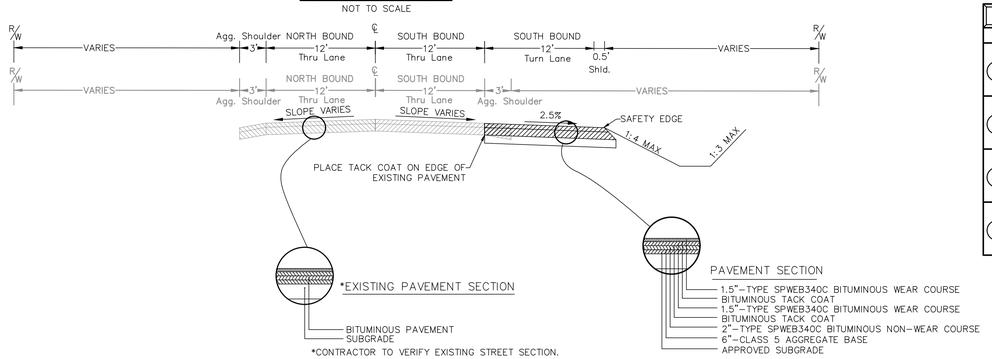
SIGNING & STRIPING

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
EASEMENT LINE		
CURB LINE		
BITUMINOUS		FULL DEPTH
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		
10' CONTOUR		
2' CONTOUR		
WETLAND LINE		
SPOT ELEVATION		
SIGN		
TREELINE		

TURN LANE SECTION

NOT TO SCALE



*EXISTING PAVEMENT SECTION

BITUMINOUS PAVEMENT
SUBGRADE

*CONTRACTOR TO VERIFY EXISTING STREET SECTION.

PAVEMENT SECTION

1.5"-TYPE SPWEB340C BITUMINOUS WEAR COURSE
BITUMINOUS TACK COAT
1.5"-TYPE SPWEB340C BITUMINOUS WEAR COURSE
BITUMINOUS TACK COAT
2"-TYPE SPWEB340C BITUMINOUS NON-WEAR COURSE
6"-CLASS 5 AGGREGATE BASE
APPROVED SUBGRADE

SIGN SCHEDULE

SIGN	SIGN NO.	SIZE	QUANTITY
(A) RIGHT LANE MUST TURN RIGHT	R3-7R	30" X 30" (BLACK ON WHITE)	1
(B) STOP	R1-1	30" X 30" (WHITE ON RED)	SEE HARVEST GRANGE SIGNING AND STRIPING PLAN
(C)	STREET SIGN BLUESTEM DR 20TH AVE S		SEE HARVEST GRANGE SIGNING AND STRIPING PLAN
(D)	X4-3	WRAP AROUND (BLACK ON WHITE)	SEE HARVEST GRANGE SIGNING AND STRIPING PLAN

TURN LANE NOTES

1. ALL GRADES ARE TO FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
2. GOVERNING SPECIFICATIONS SHALL BE THE LATEST EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION"
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES AND ALL PERMANENT SIGNING & MARKINGS SHALL CONFORM TO THE MN MUTCD, 11TH EDITION, 2025.
4. 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.
5. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
6. ALL TURN LANE STRIPING SHALL BE COMPLETED USING MULTICOMP/EPOXY PAINT.
7. CONTRACTOR SHALL COORDINATE WORK AROUND AND RELOCATION OF SMALL UTILITIES.
8. CONTRACTOR TO CONTACT ANOKA COUNTY HIGHWAY DEPARTMENT 3 BUSINESS DAYS PRIOR TO ANY WORK WITHIN THE RIGHT-OF-WAY.
9. A RIGHT OF WAY PERMIT IS NECESSARY – CONTRACTOR WILL OBTAIN A "CONTRACTOR NUMBER" BY PROVIDING A COI AND BOND IN THE AMOUNT OF THE PROJECT TO THEN BE ABLE TO APPLY FOR THE PERMIT.

CURB TYPES LEGEND

	EDGE OF BITUMINOUS
	B618 CONCRETE CURB & GUTTER

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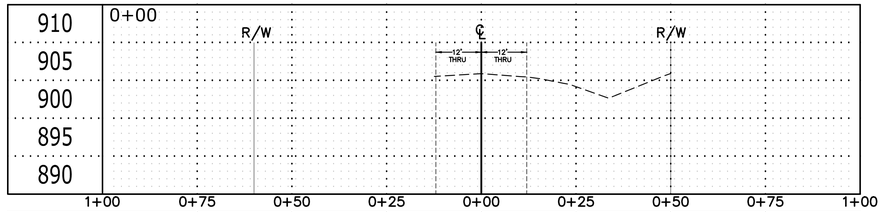
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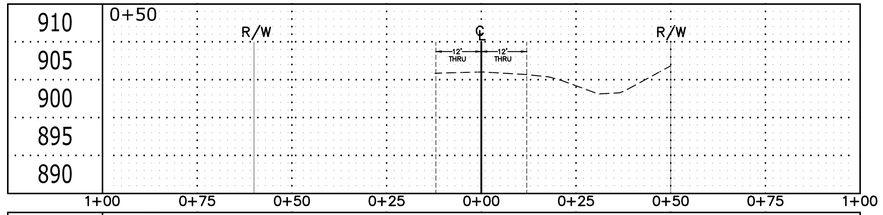
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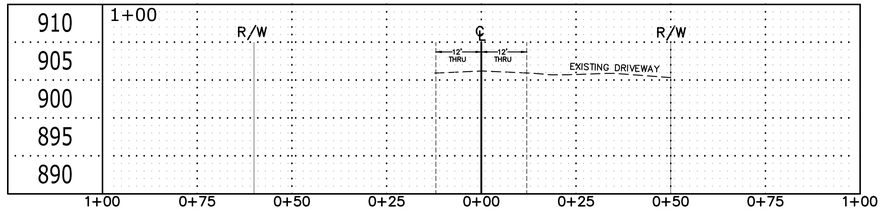
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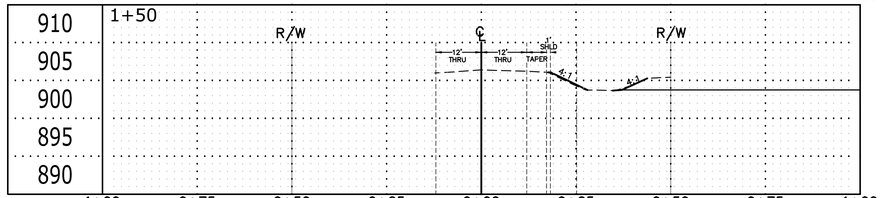
SITE & UTILITY SIGNING & STRIPING PLAN

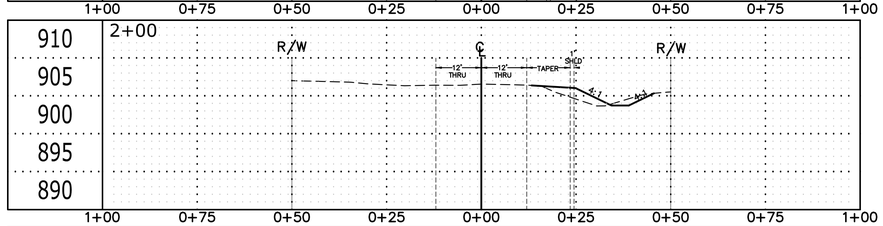
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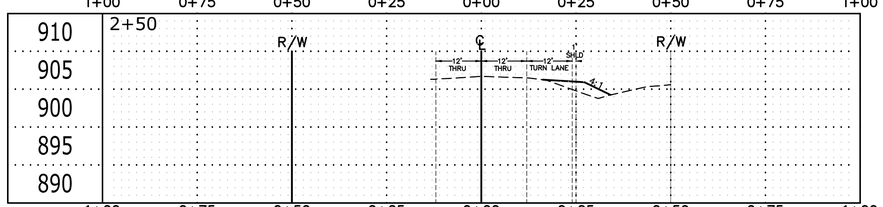


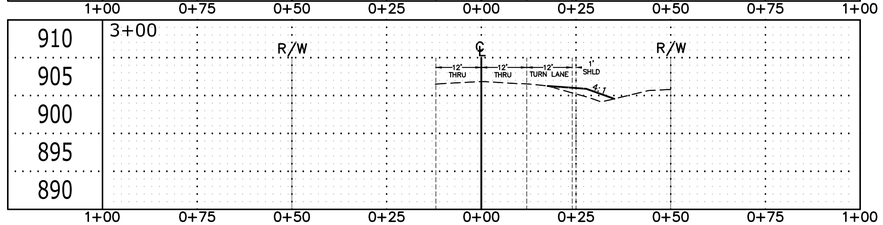


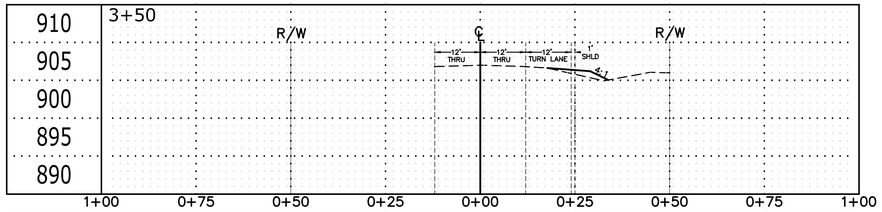


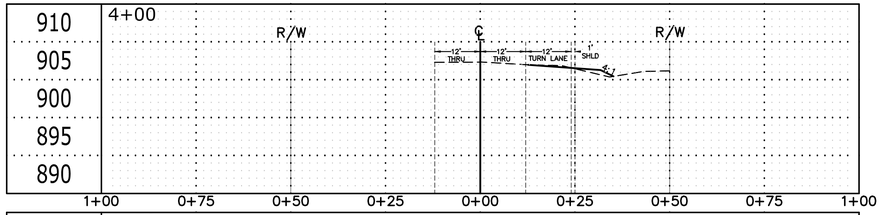


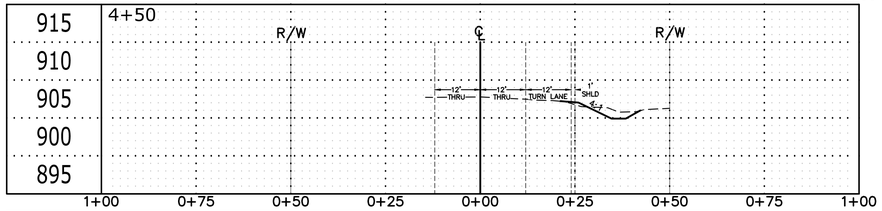


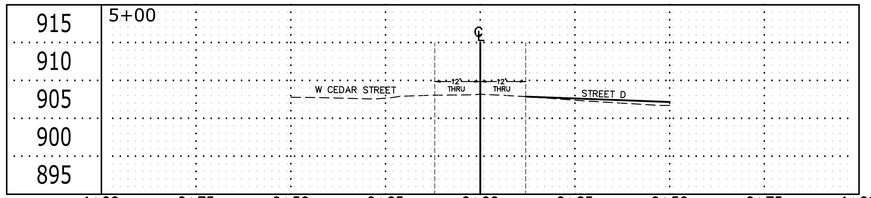


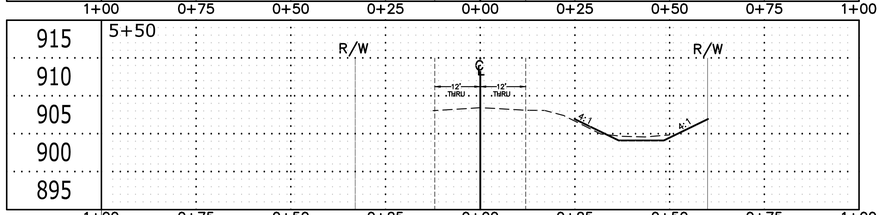


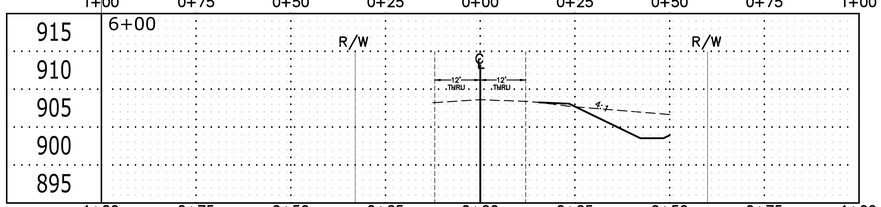












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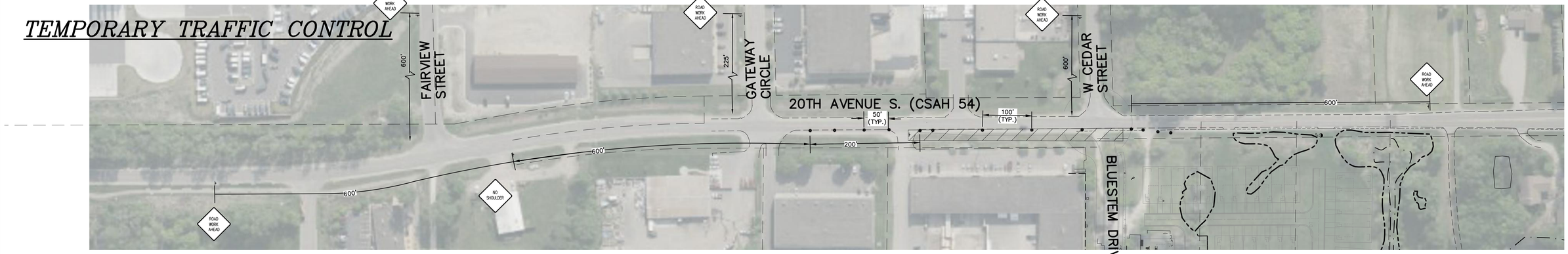
CROSS SECTIONS

T4 of T5

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#11343

TEMPORARY TRAFFIC CONTROL



N

0 50 100 200
(IN FEET)

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
EASEMENT LINE		
CURB LINE		
BITUMINOUS		
CONCRETE		
CONSTRUCTION AREA		
TRAFFIC BARRELS		
SIGN		

SIGN SCHEDULE

SIGN	QUANTITY
ROAD WORK AHEAD	5
NO SHOULDER	1

NOTES:

INTERMITTENT SIGNS SHALL BE USED FOR LOOSE GRAVEL, UNEVEN LANES, BUMP, ETC.

MNDOT LONGITUDINAL DROP-OFF GUIDLINES SHALL BE FOLLOWED PER MNDOT FIELD MANUAL FIGURE 6K-7.

MAINTAIN A MAXIMUM LONGITUDINAL DROP-OFF OF 4" BETWEEN SURFACES TO AVOID PLACING J-BARRIERS. A SEPARATE TRAFFIC CONTROL PLAN MUST BE SUBMITTED BY THE CONTRACTOR IF DROP-OFF WILL EXCEED 4" THROUGH NIGHT. FOLLOW MNDOT TEMPORARY BARRIER GUIDANCE MANUAL.

ALL EDGE DROP OFFS MUST BE BACKFILLED OR RAMPED MEETING LONDITUDINAL DROP-OFF GUIDELINES MNDOT FIELD MANUAL FIGURE 6K-7.

ALL TRAFFIC CONTROL SHALL CONFORM TO THE MOST CURRENT VERSION OF THE MnMUTCD.

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TRAFFIC CONTROL PLAN

T5 of T5

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