

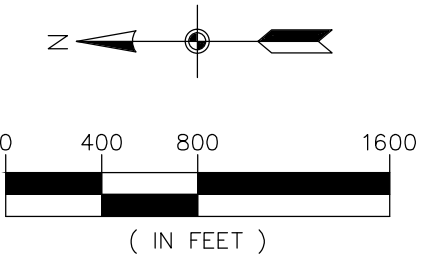
WATERMARK - 4TH ADDITION

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



SHEET INDEX

- T1. COVER
- T2. REMOVALS
- T3. GRADING, DRAINAGE & EROSION CONTROL PLAN
- T4. SITE & UTILITY PLAN
- T5. PEDESTRIAN RAMP DETAILS
- T6. SIGNING & STRIPING PLAN
- T7. CROSS SECTIONS
- T8. TRAFFIC CONTROL PLAN



CALL BEFORE YOU DIG

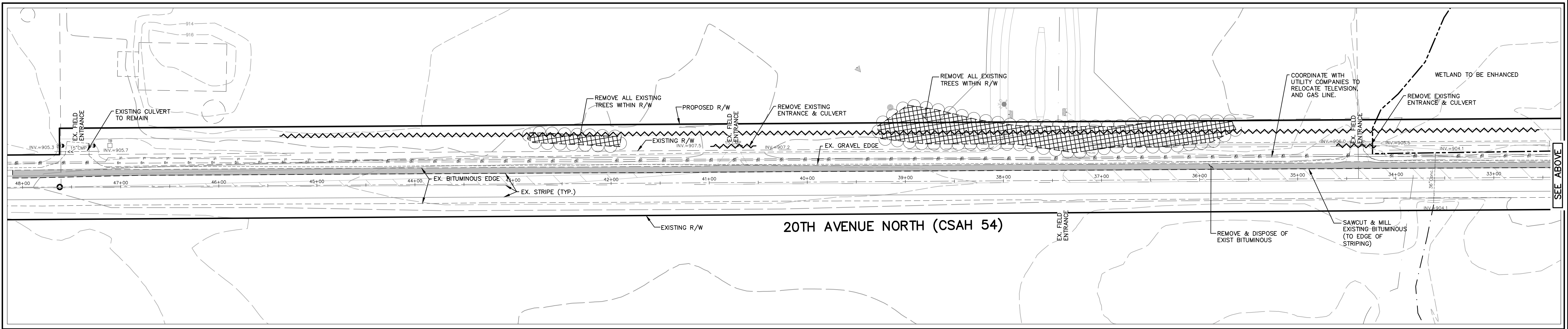
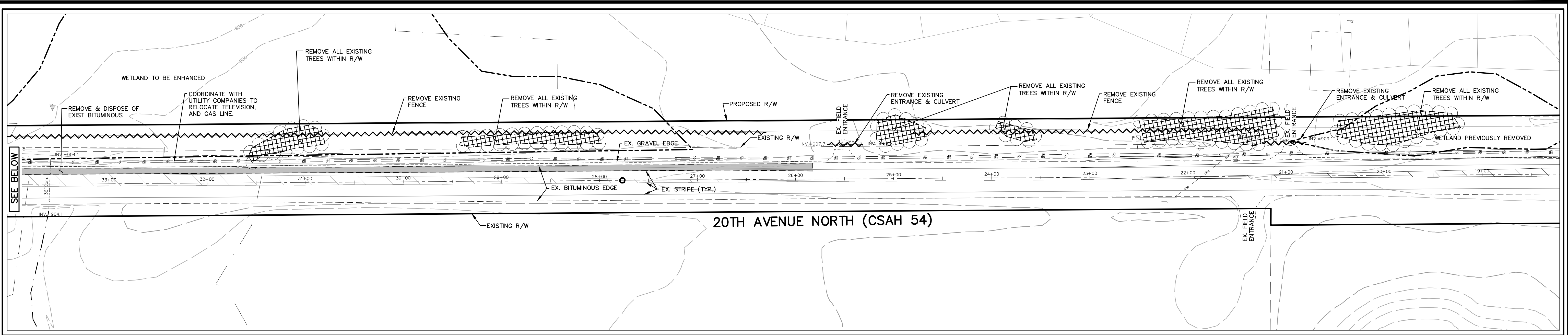




Know what's below.
Call before you dig.

APPROVED: ANOKA COUNTY ENGINEER

DATE



REMOVALS LEGEND

EXISTING	REMOVALS
PROPERTY LINE	---
EASEMENT LINE	---
SAWCUT	---
BITUMINOUS	▬▬▬▬▬▬
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	▬▬▬▬▬▬

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

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

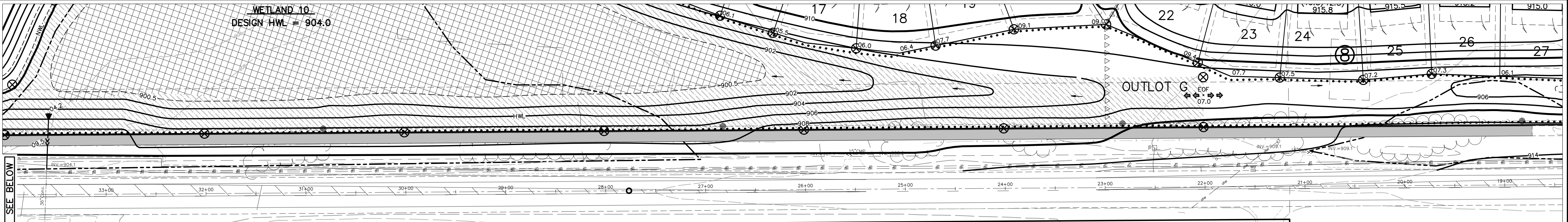
0 25 50 100
(IN FEET)

CALL BEFORE YOU DIG

811

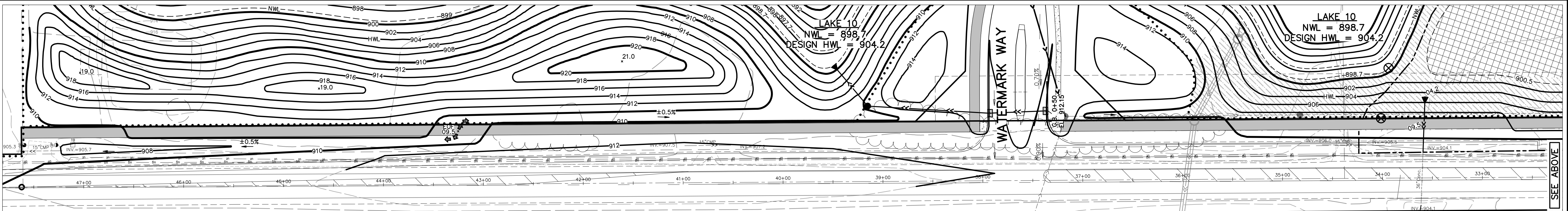
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20TH AVENUE NORTH (CSAH 54)

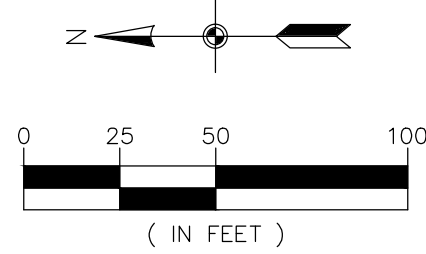
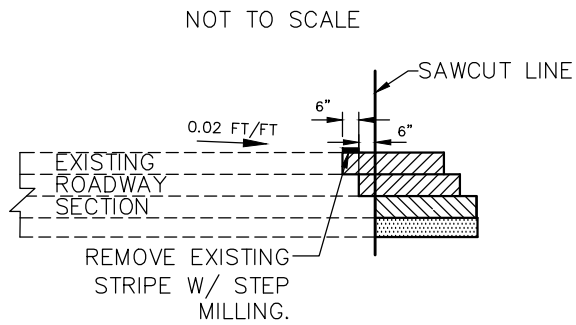
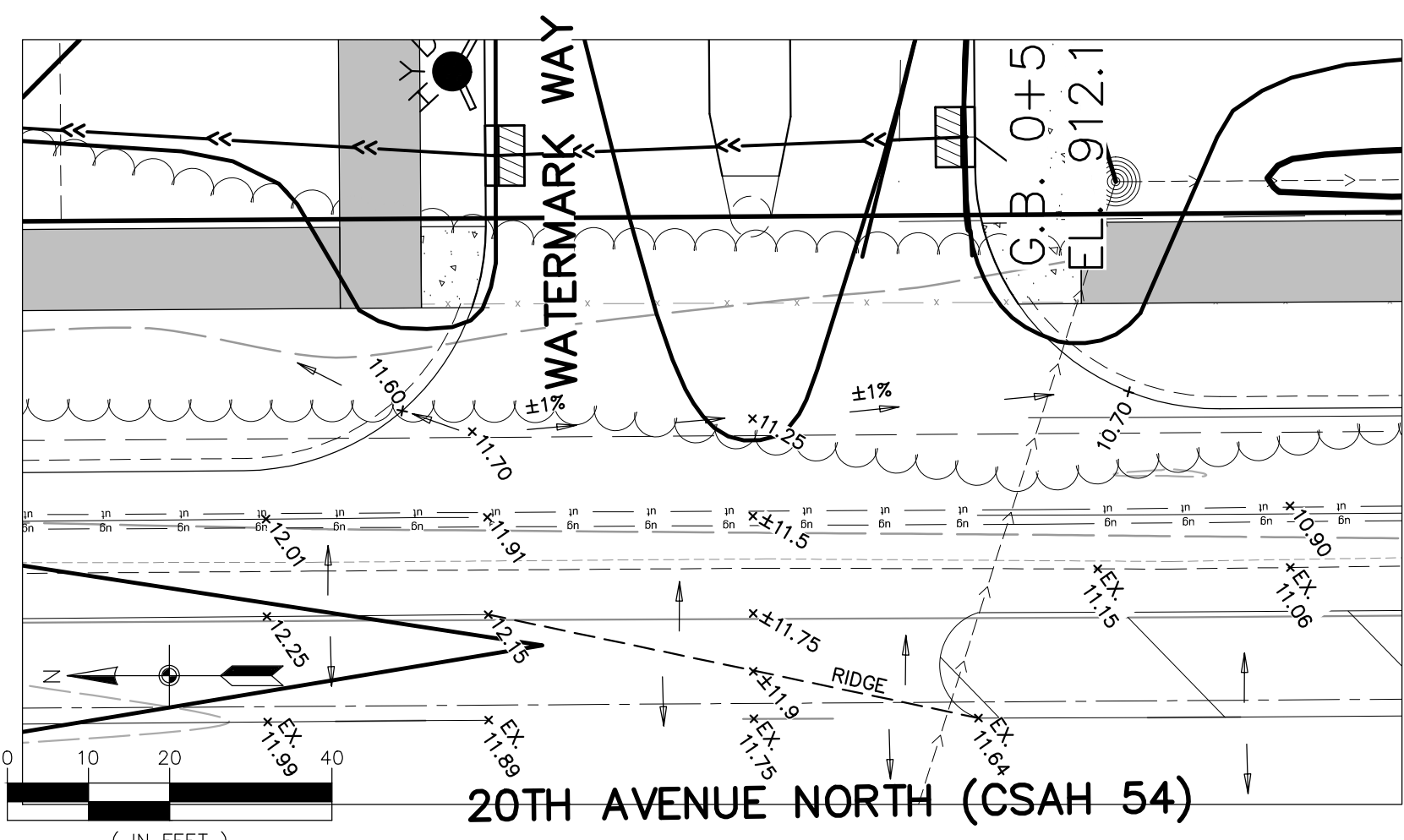
GRADING PLAN LAYOUT



20TH AVENUE NORTH (CSAH 54)

GRADING PLAN LAYOUT

GRADING LEGEND	
EXISTING	PROPOSED
PROPERTY LINE	
EASEMENT LINE	
CURB LINE	
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	
SOIL BORING	



TURF ESTABLISHMENT

TURF ESTABLISHMENT SHALL APPLY TO ALL DISTURBED AREAS AND SHALL BE ACCORDING TO MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION (LATEST EDITION) EXCEPT AS MODIFIED BELOW.

TURF ESTABLISHMENT SHALL OCCUR AS SOON AS POSSIBLE BUT IN NO CASE MORE THAN 7 DAYS.

SEED: MNDOT MIXTURE 33-261 AT 35 POUNDS PER ACRE.

DORMANT SEED: SHALL BE APPLIED AT TWICE THE NORMAL RATE AFTER NOVEMBER 1ST.

MULCH: TYPE 1 AT 2 TONS PER ACRE (DISK ANCHORED).

FERTILIZER: TYPE 1 10-10-10 AT 200 POUNDS PER ACRE.

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CARLSON MCCAIN

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3890 PHEASANT RIDGE DR NE
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BLAINE, MN 55449
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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: Justin J Olson
Signature:
Date: 12/14/20 License #: 54231

Drawn: JJO
Designed: JJO
Date: 12/14/20

Revisions:
1. 2/11/21 Per county Comments

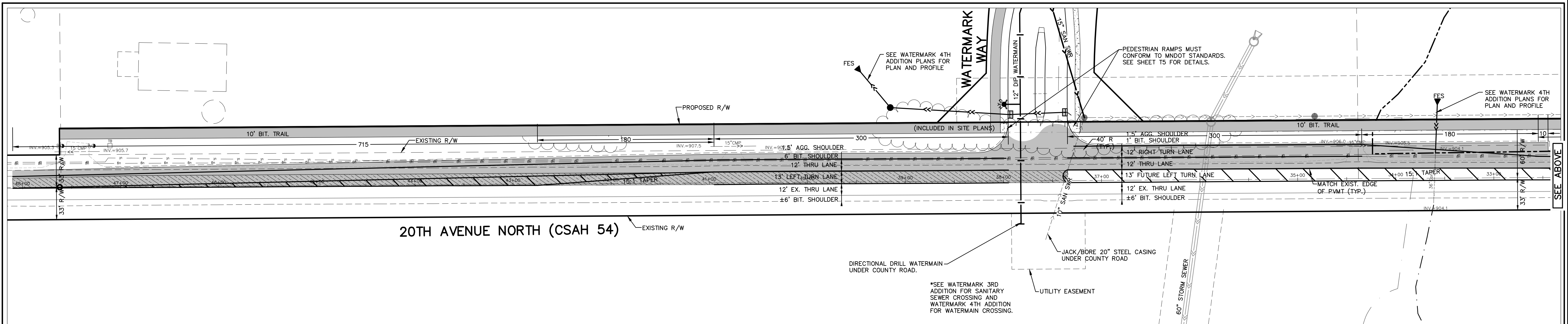
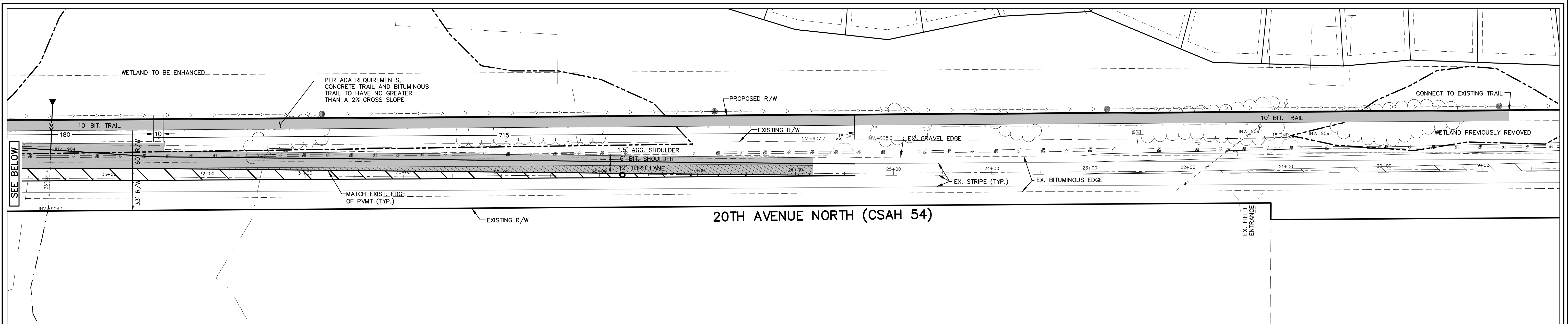
LENNAR

16305 36th Avenue N. - Suite 600
Plymouth, MN 55446

WATERMARK 4TH ADDITION

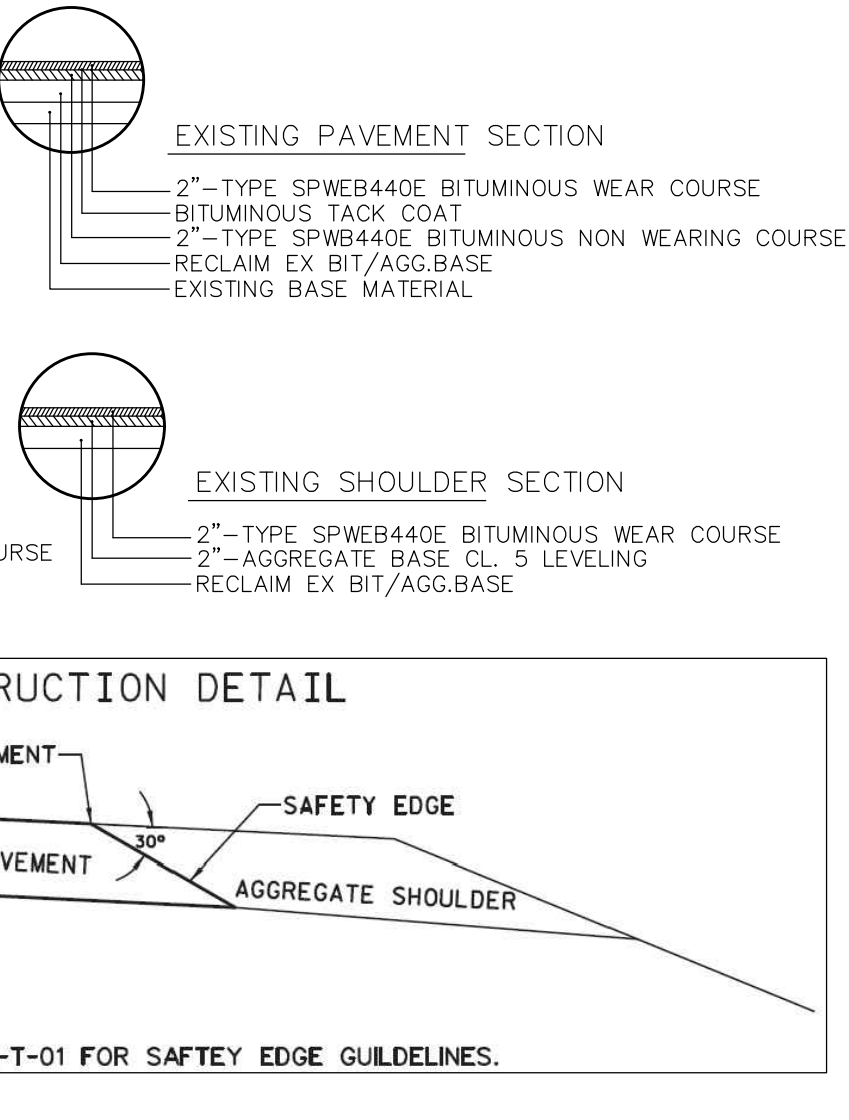
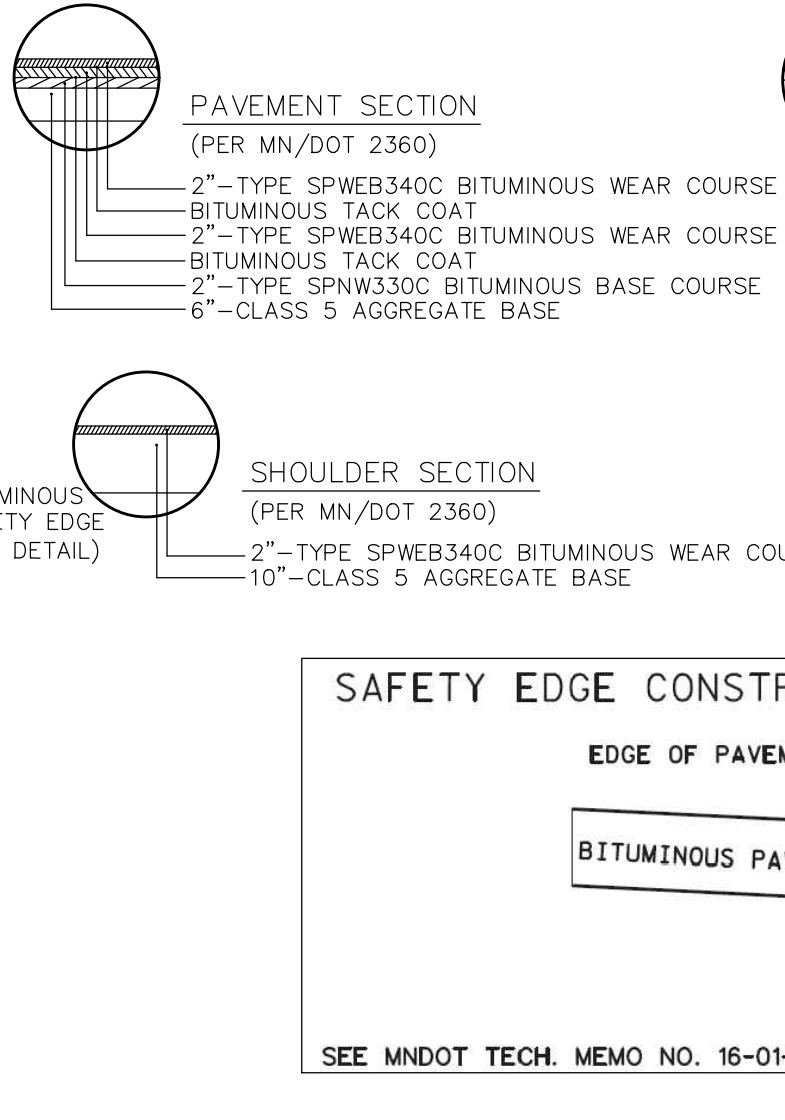
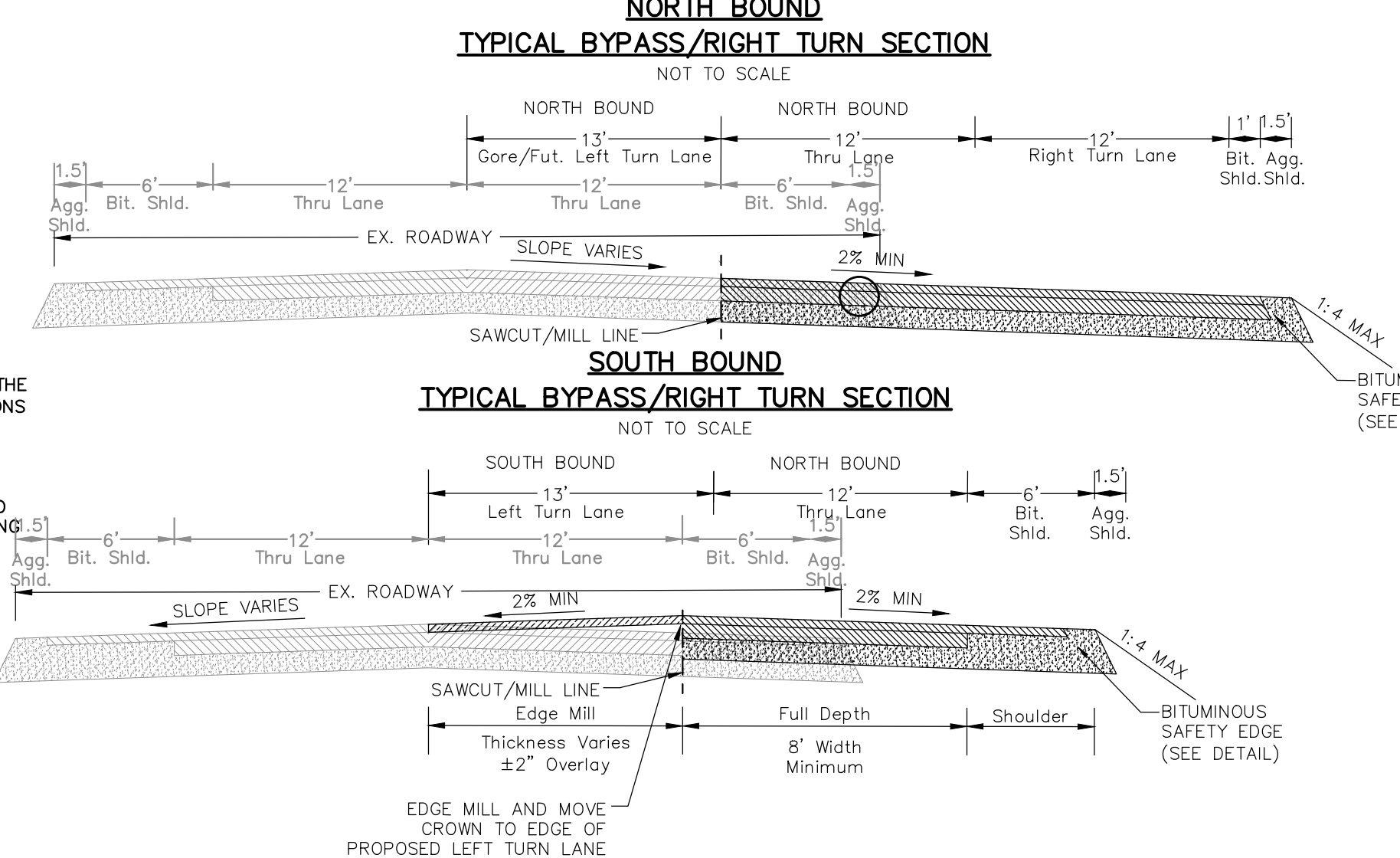
Lino Lakes, MN

GRADING, DRAINAGE & EROSION CONTROL PLAN



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	
10' CONTOUR	
2' CONTOUR	
WETLAND LINE	
SPOT ELEVATION	
SIGN	
TREELINE	

- NOT TO SCALE
- TURN LANE NOTES
- ALL GRADES ARE TO FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
 - GOVERNING SPECIFICATIONS SHALL BE THE LATEST EDITION (2018) OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION"
 - ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE MMUTCD
 - 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.



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SAFETY EDGE CONSTRUCTION DETAIL

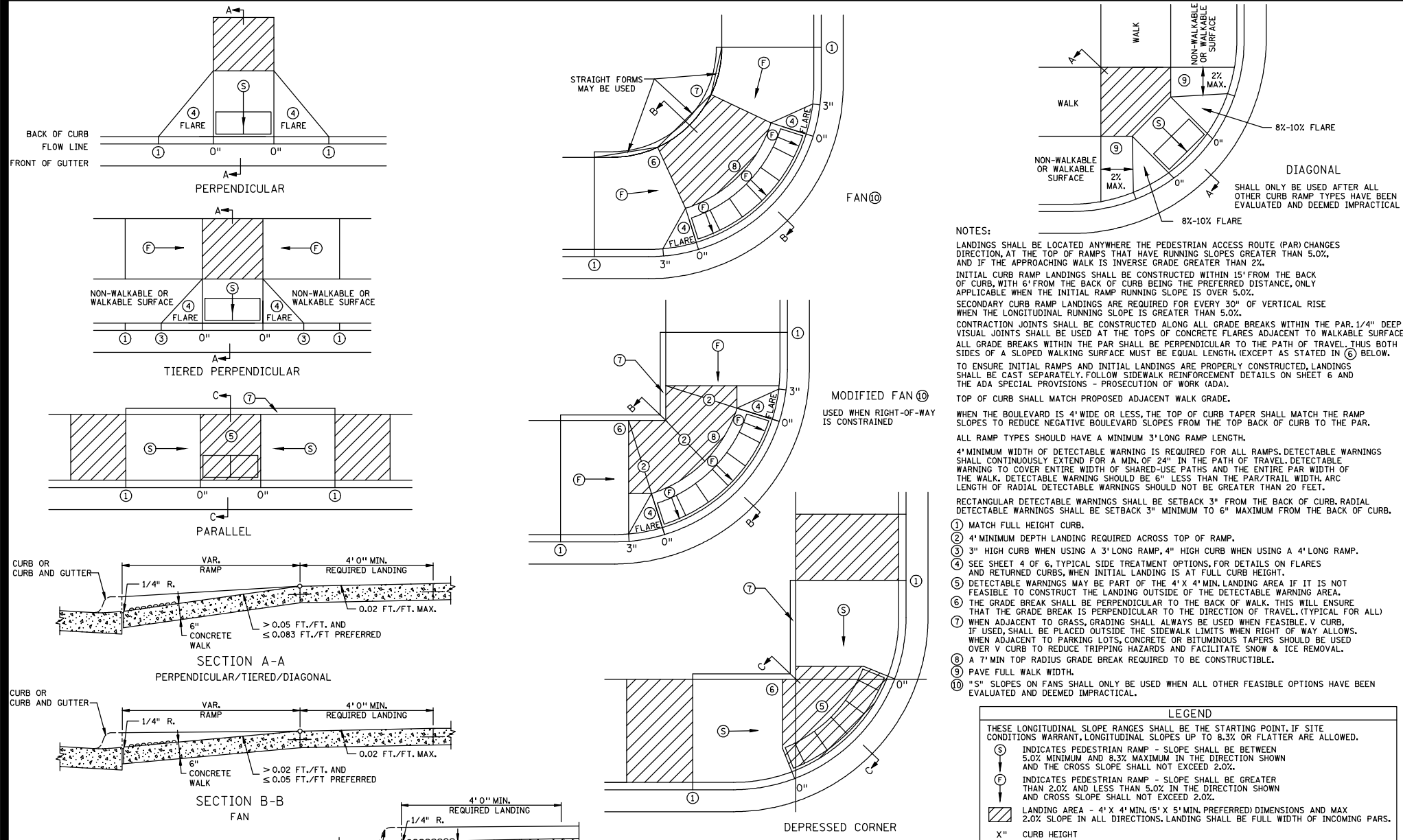
EDGE OF PAVEMENT

BITUMINOUS PAVEMENT

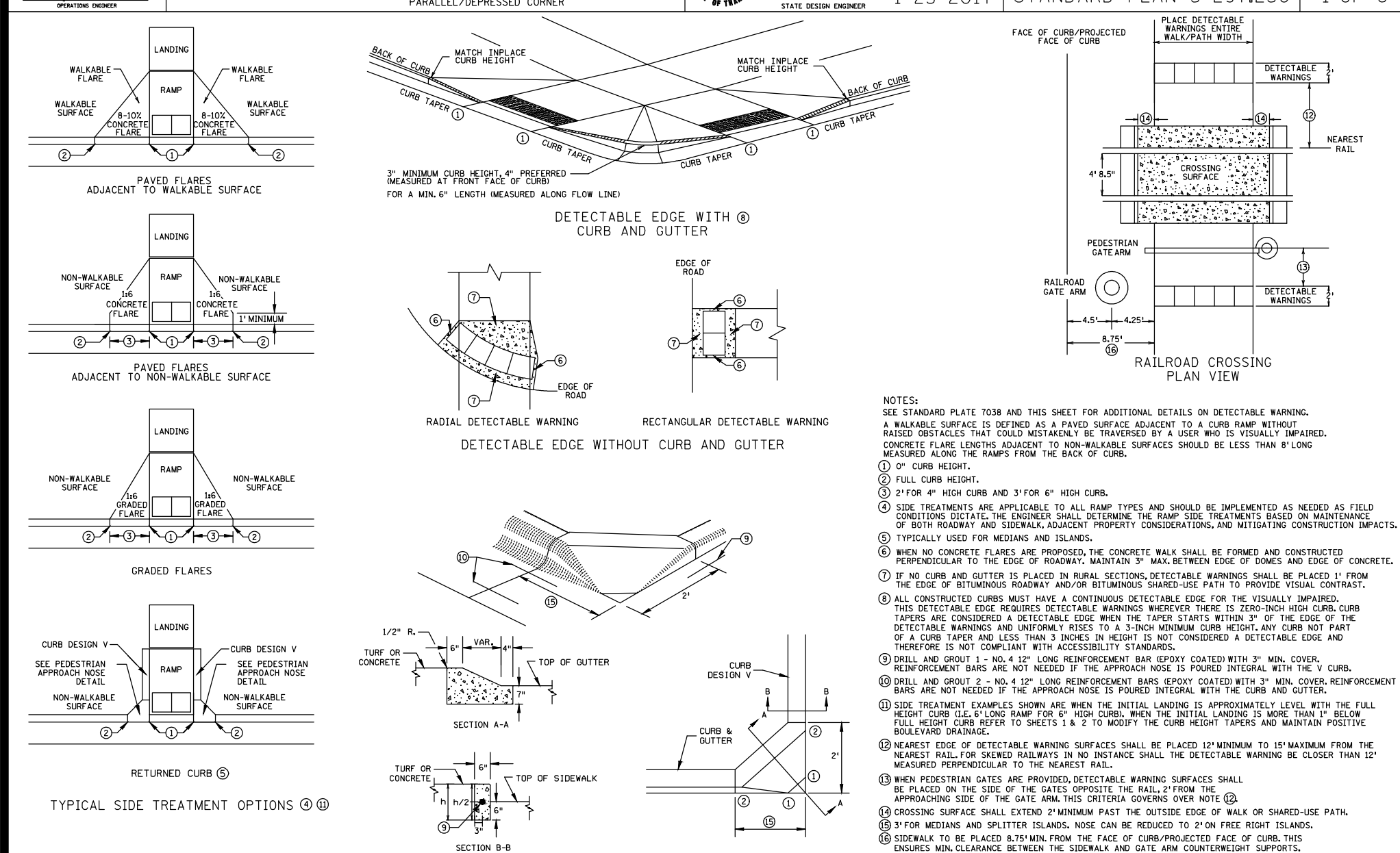
SAFETY EDGE

AGGREGATE SHOULDER

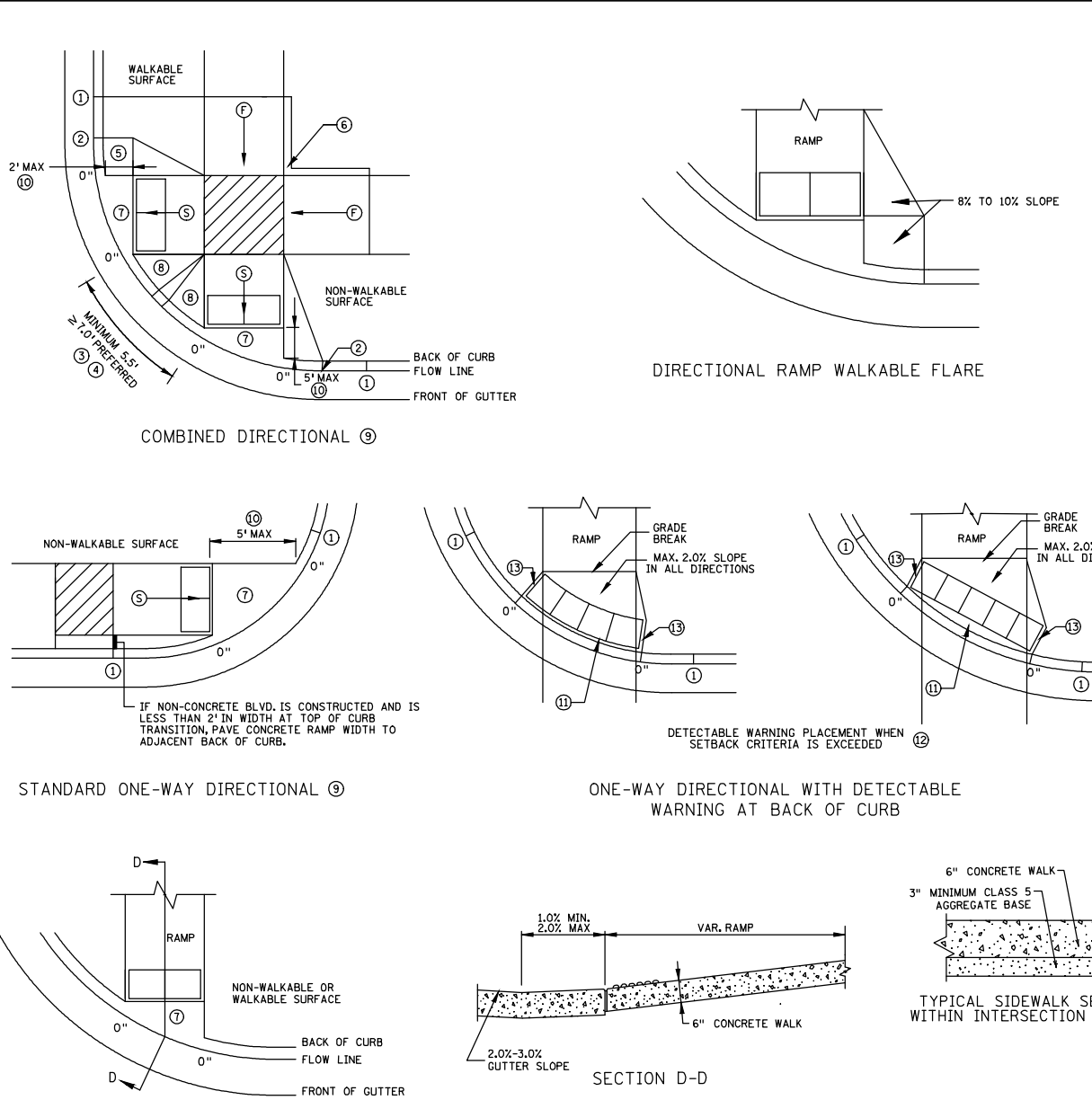
SEE MNDOT TECH. MEMO NO. 16-01-T-01 FOR SAFETY EDGE GUIDELINES.



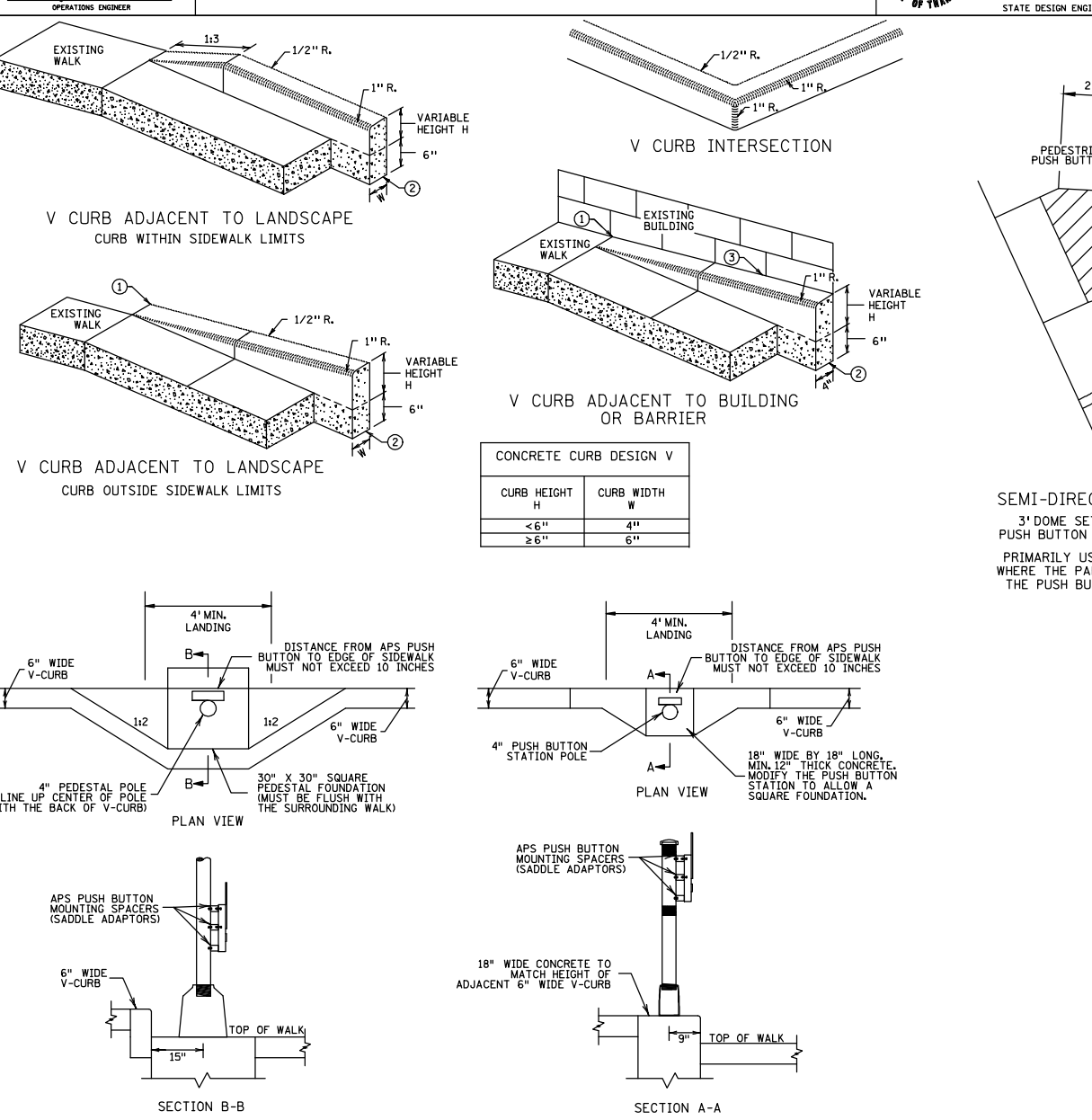
REVISIONS: APPROVED: JANUARY 23, 2017
 STANDARD PLAN 5-297.250 1 OF 6



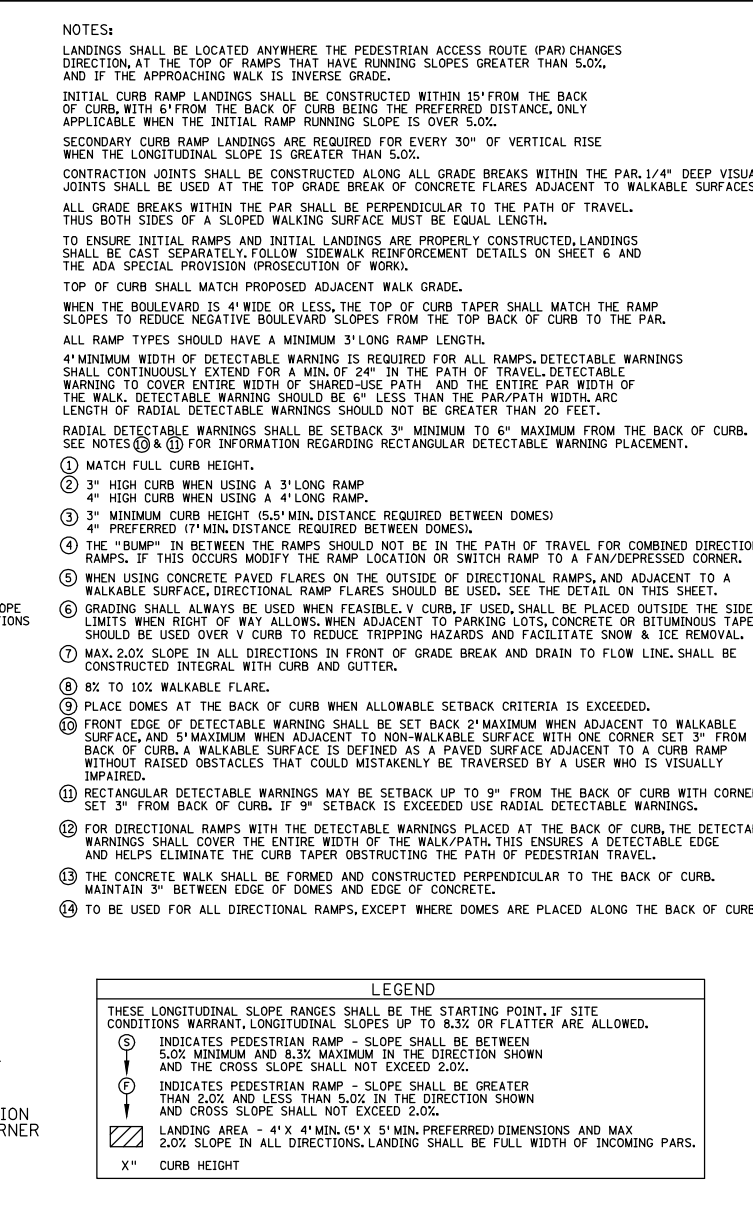
REVISIONS: APPROVED: JANUARY 23, 2017
 STANDARD PLAN 5-297.250 4 OF 6



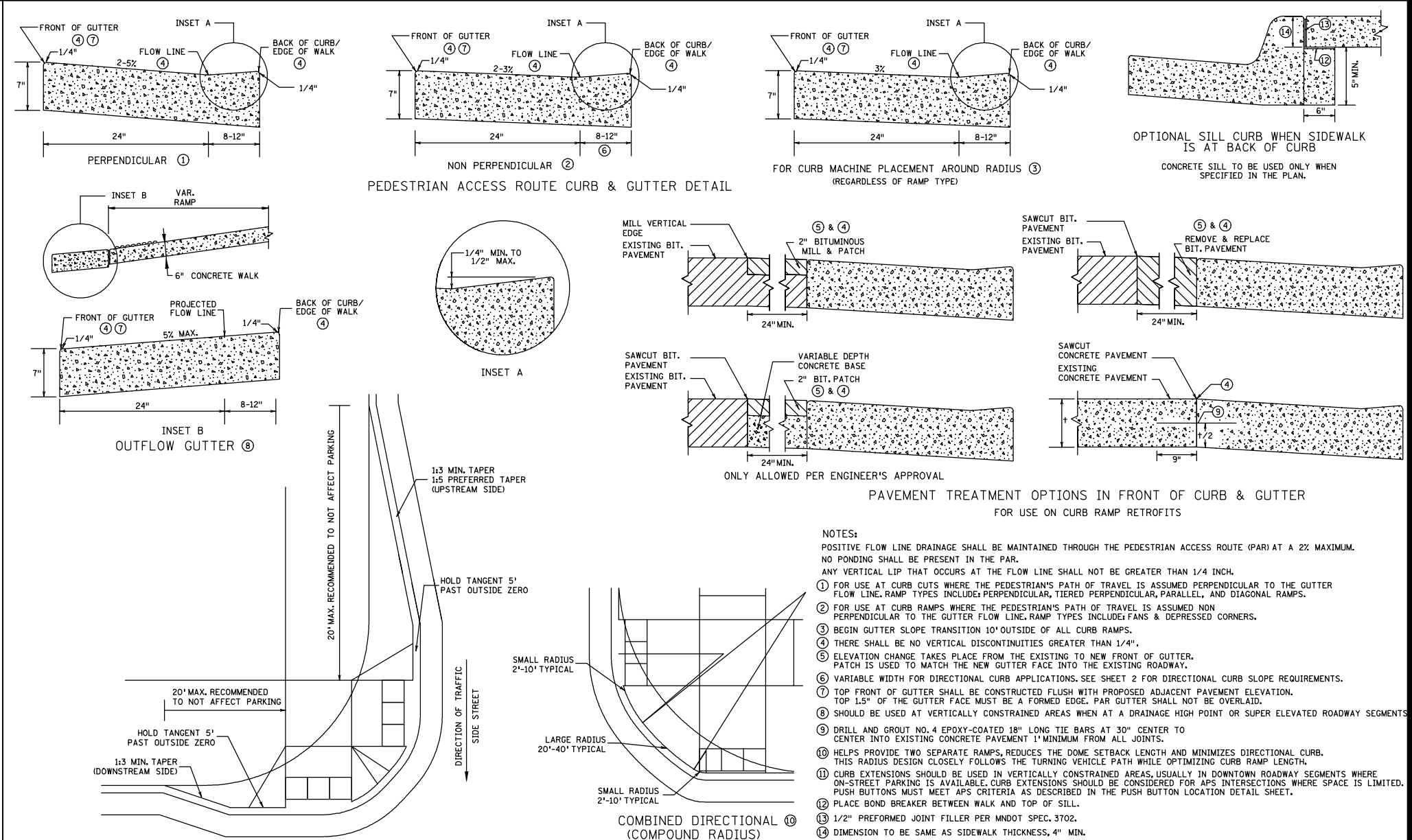
REVISIONS: APPROVED: JANUARY 23, 2017
 STANDARD PLAN 5-297.250 2 OF 6



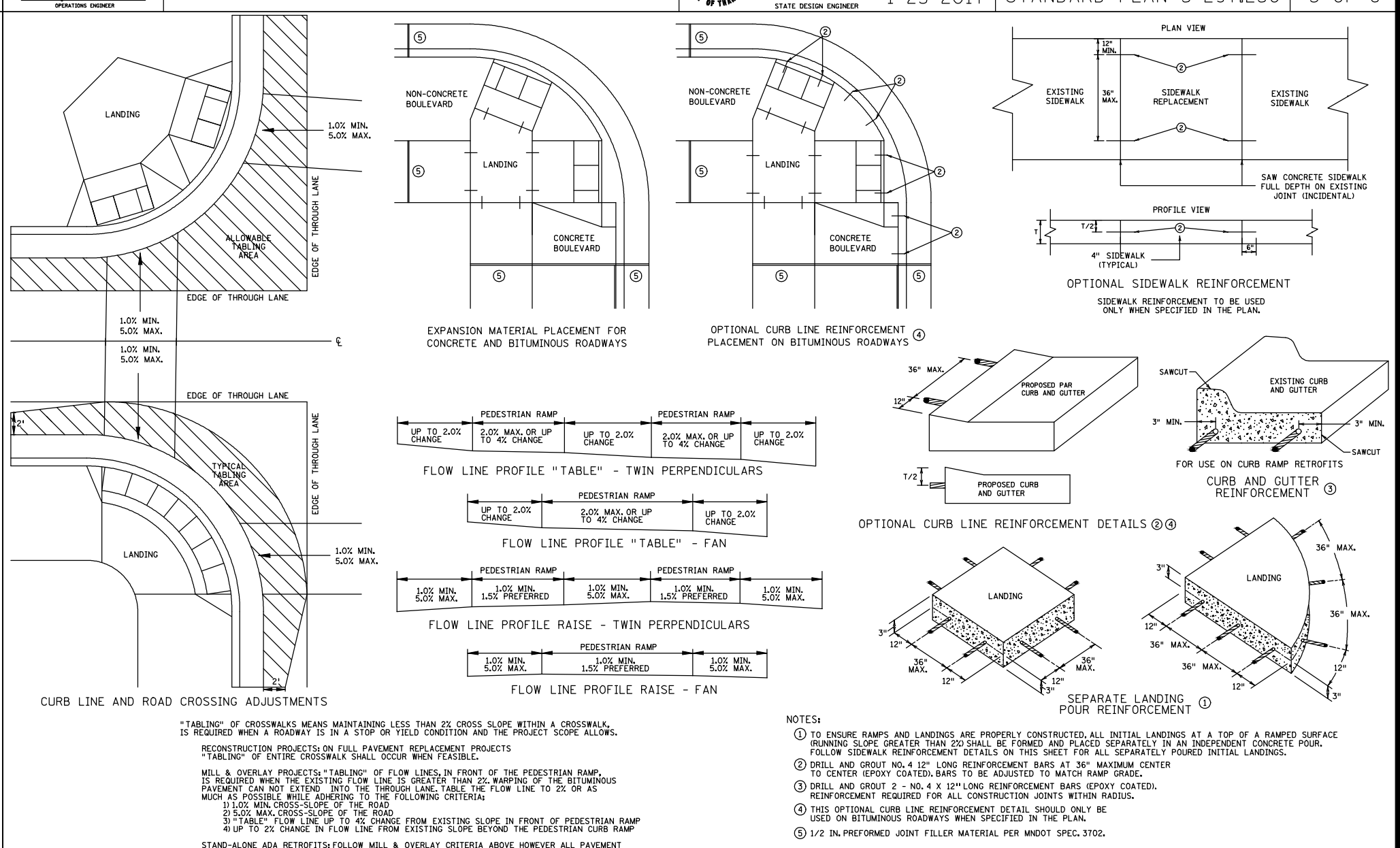
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 STANDARD PLAN 5-297.250 5 OF 6



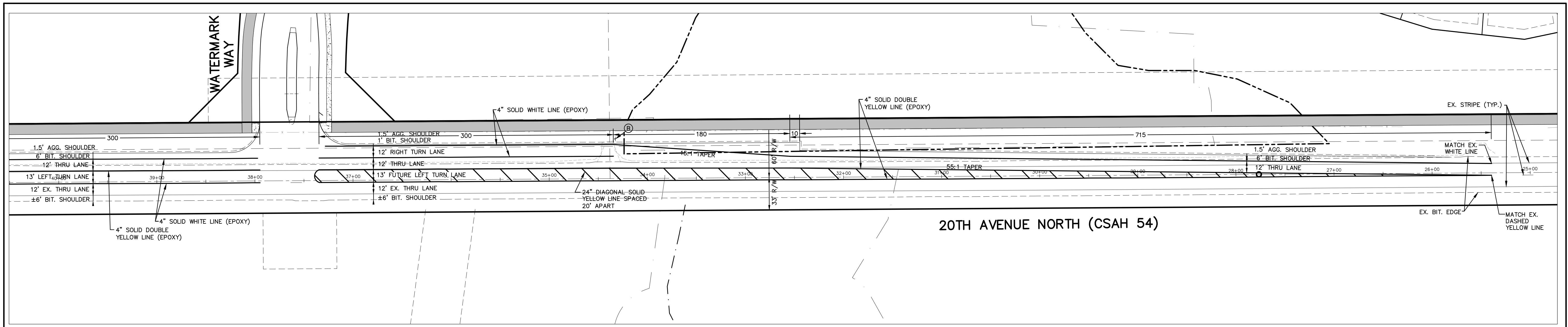
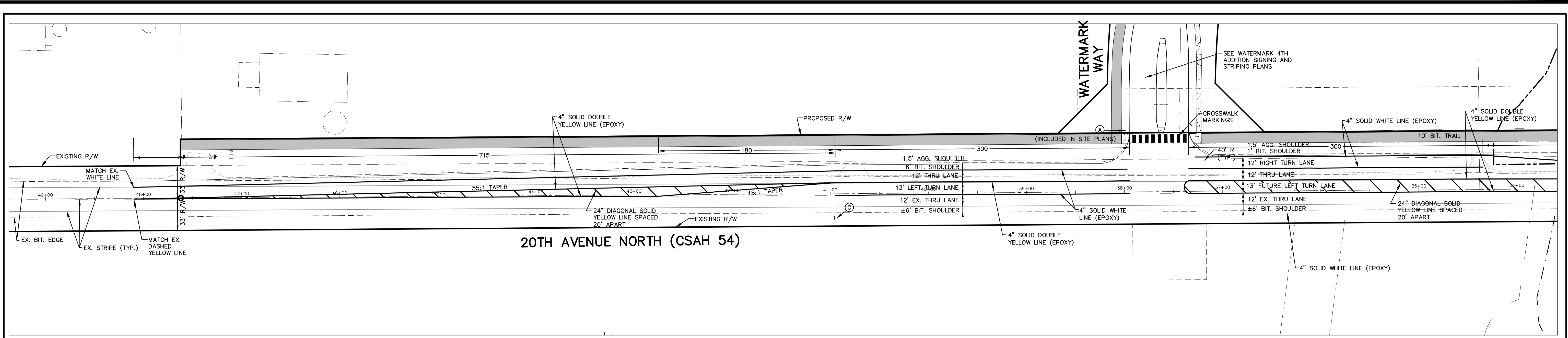
REVISIONS: APPROVED: JANUARY 23, 2017
 STANDARD PLAN 5-297.250 6 OF 6



REVISIONS: APPROVED: JANUARY 23, 2017
 STANDARD PLAN 5-297.250 3 OF 6



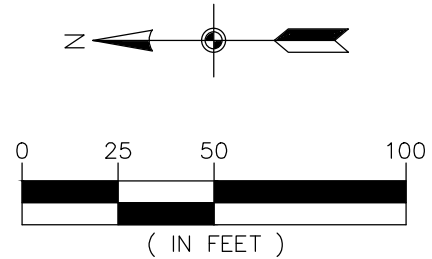
REVISIONS: APPROVED: JANUARY 23, 2017
 STANDARD PLAN 5-297.250 6 OF 6



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	---	---

SIGN SCHEDULE			
SIGN	SIGN NO.	SIZE	QUANTITY
(A)	STOP	R1-1	30" X 30" (WHITE ON RED)
(B)	RIGHT TURN LANE	R3-7R	30" X 30" (BLACK ON WHITE)
(C)	ONLY ONLY	R3-30AC	36" X 30" (BLACK ON WHITE)



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ENGINEERING
SURVEYING
ENVIRONMENTAL

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:
Date: 12/14/20 License #: 54231

Drawn: JJO

Designed: JJO
Date: 12/14/20

Revisions:
1. 2/11/21 Per county Comments

LENNAR

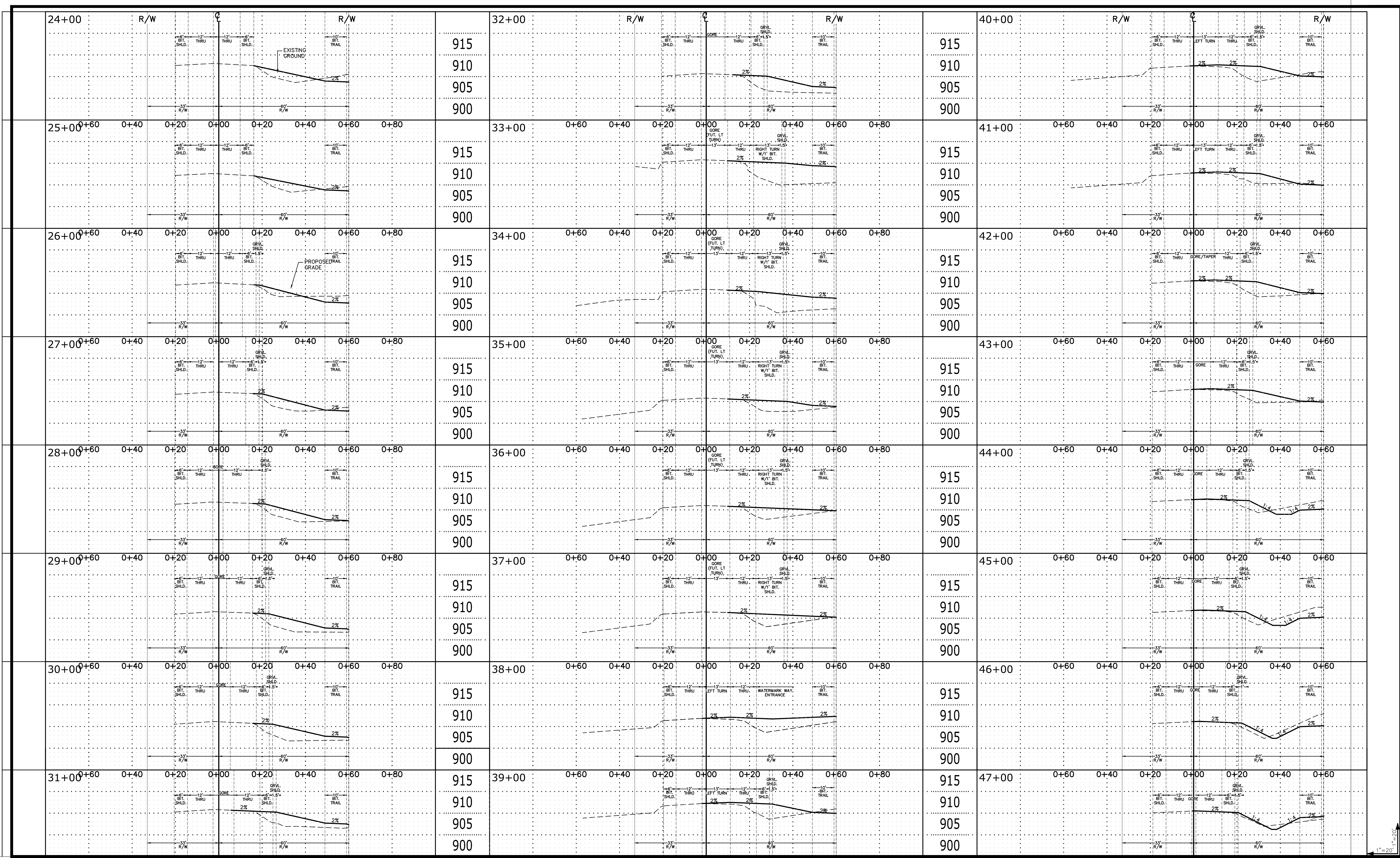
16305 36th Avenue N. - Suite 600
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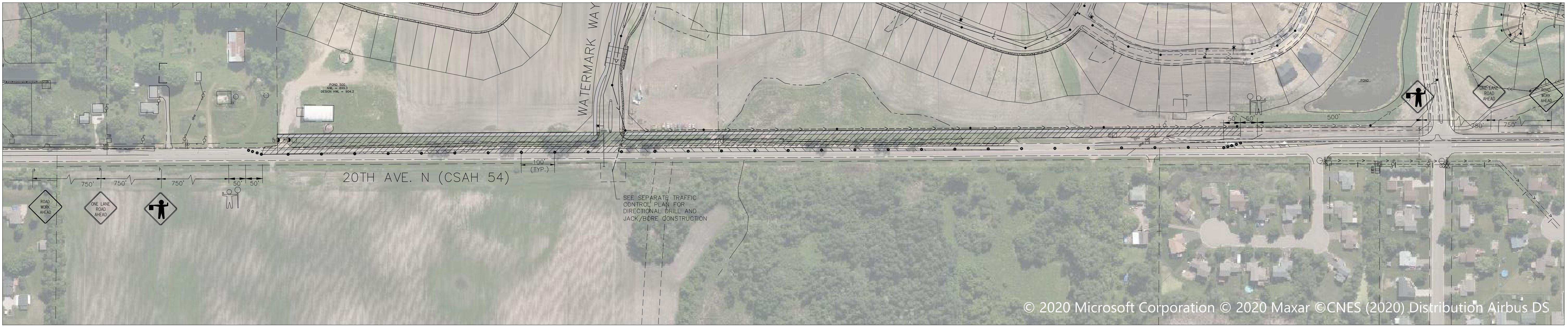
WATERMARK 4TH ADDITION

Lino Lakes, MN

SIGNING & STRIPING PLAN

T6
of
8





LEGEND		
	EXISTING	PROPOSED
PROPERTY LINE	---	---
EASEMENT LINE	---	---
CURB LINE	---	---
BITUMINOUS	[Pattern]	[Pattern]
CONCRETE	[Pattern]	[Pattern]
CONSTRUCTION AREA	[Pattern]	[Pattern]
TRAFFIC CONES	[Symbol]	[Symbol]
SIGN	[Symbol]	[Symbol]

SIGN SCHEDULE			
SIGN	QUANTITY	SIGN	QUANTITY
[One Lane Road Ahead Sign]	2	[Flagger Sign]	2
[Road Work Ahead Sign]	2		

NOTES:
BOTH LANES SHALL BE OPEN AT THE END OF DAY TO ALLOW TRAFFIC TO FLOW NORMALLY.

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

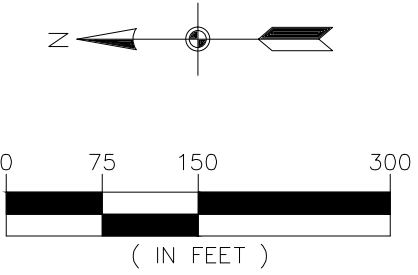
MNDOT LONGITUDINAL DROP-OFF GUIDLINES SHALL BE FOLLOWED PER MNDOT FIELD MANUAL FIGURE 6K-7.

IF THE LONGITUDINAL DROP-OFF REACHES MORE THAN 1 FOOT, A J-BARRIER MAY BE NEEDED AND A SEPARATE TRAFFIC CONTROL PLAN MUST BE SUBMITTED BY THE CONTRACTOR. FOLLOW MNDOT TEMPORARY BARRIER GUIDANCE MANUAL.

ONE LANE ROAD AHEAD, BE PREPARED TO STOP AND FLAGGER SIGN SHALL BE COVERED OR LAID DOWN WHEN FLAGGING OPERATION IS NOT IN PROGRESS.

ALL EDGE DROP OFFS MUST BE BACKFILLED OR RAMPED MEETING LONITUDINAL DROP-OFF GUIDLINES MNDOT FIELD MANUAL FIGURE 6K-7 WHEN FLAGGERS ARE NOT PRESENT.

FLAGGER OPERATIONS FOR ONE LANE ROAD ARE LIMITED TO TIMES OF 9AM TO 3PM MONDAY THROUGH FRIDAY.



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