

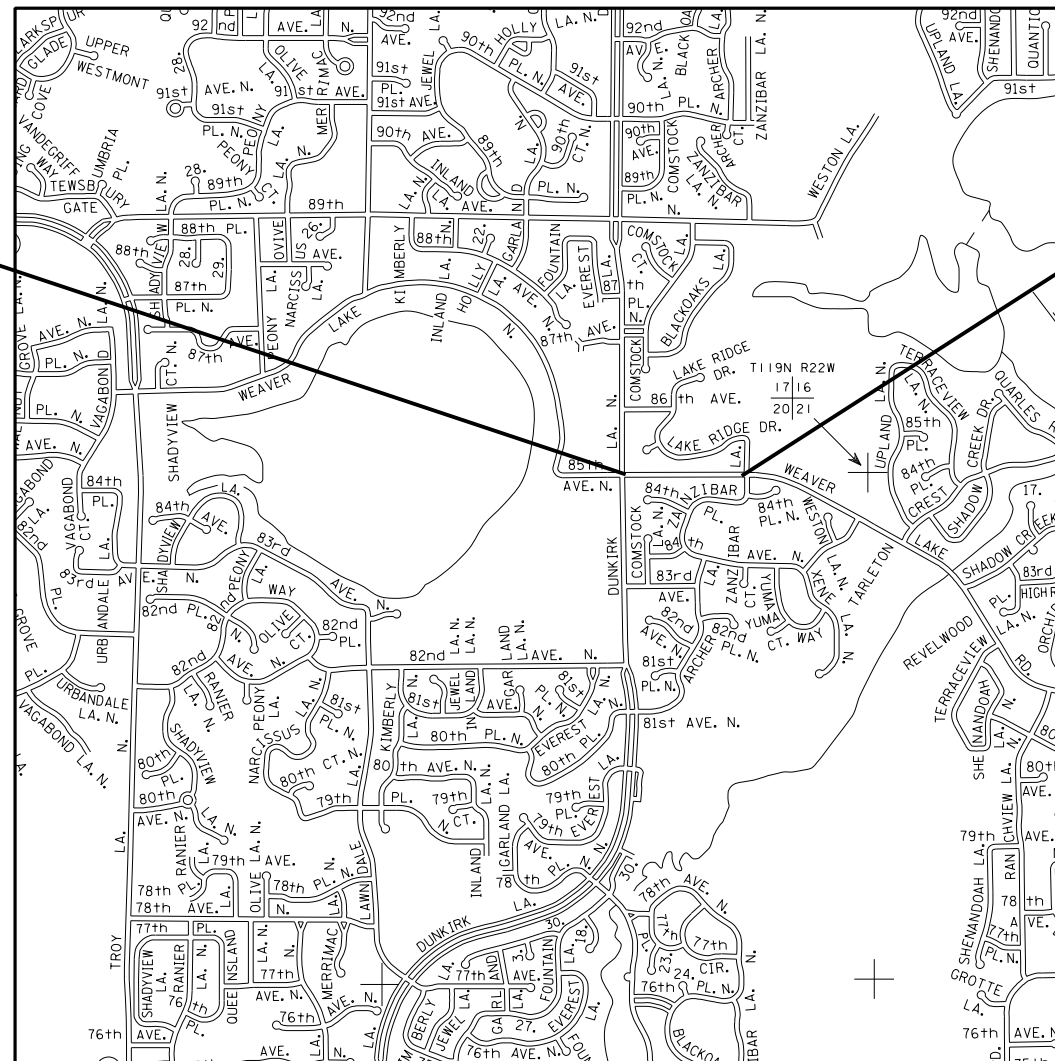
CITY OF MAPLE GROVE

HENNEPIN COUNTY, MINNESOTA

PLANS FOR: RETAINING WALL REMOVAL, BITUMINOUS WALK REMOVAL, AGGREGATE BASE, BITUMINOUS SURFACE, CONCRETE WALK, PREFABRICATED MODULAR BLOCK WALLS (PMBW)

WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

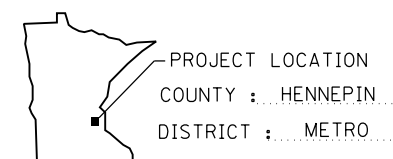
CITY PROJECT NO. 19-09



END C.P. 19-09
 @ WB WEAVER LAKE RD
 STA 112+57.68

SCALE 2000'
 INDEX MAP

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY



PLAN SYMBOLS

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT-OF-WAY LINE
- PRESENT RIGHT-OF-WAY LINE
- CONTROL OF ACCESS LINE
- PROPERTY LINE (Except Land Lines)
- VACATED PLATTED PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- CONC. RETAINING WALL
- RAILROAD
- RAILROAD RIGHT-OF-WAY LINE
- RIVER OR CREEK
- DRY RUN
- DRAINAGE DITCH
- DRAIN TILE
- CULVERT
- DROP INLET
- GUARD RAIL
- BARBED WIRE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SNOW FENCE
- STONE WALL OR FENCE
- HEDGE
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- MEANDER CORNER
- MAIL BOX
- SPRINGS
- MARSH
- TIMBER
- ORCHARD
- BRUSH
- NURSERY
- CATCH BASIN
- FIRE HYDRANT
- CATTLE GUARD
- OVERPASS (Highway Over)
- UNDERPASS (Highway Under)
- BRIDGE
- BUILDING (One Story Frame)
- F-FRAME C-CONCRETE
- S-STONE T-TILE
- B-BRICK ST-STUCCO
- IRON PIPE OR ROD
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY

UTILITY SYMBOLS

- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE AND POWER ON POWER POLES
- ON TELEPHONE POLES
- ANCHOR
- STEEL TOWER
- STREET LIGHT
- PEDESTAL (TELEPHONE CABLE TERMINAL)
- GAS MAIN
- WATER MAIN
- CONDUIT
- TELEPHONE CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- BURIED TELEPHONE CABLE
- BURIED ELECTRIC CABLE
- AERIAL TELEPHONE CABLE
- SEWER, (SANITARY)
- SEWER, (STORM)
- SEWER MANHOLE
- HANDHOLE

GOVERNING SPECIFICATIONS

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

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

CITY OF MAPLE GROVE STANDARD SPECIFICATION FOR UTILITY AND STREET CONSTRUCTION 2021

INDEX

SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	CONSTRUCTION/SOILS NOTES AND STANDARD PLATES
4	EXISTING UTILITY TABULATIONS
5	TYPICAL SECTIONS
6-10	STANDARD PLAN SHEETS
11	TRAFFIC CONTROL PLANS
12	ALIGNMENT PLANS AND TABULATIONS
13	INPLACE TOPOGRAPHY, UTILITIES, RIGHT OF WAY AND REMOVAL PLANS
14	CONSTRUCTION AND DRAINAGE PLANS
15-16	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
17-21	RETAINING WALL PLANS
22	EROSION CONTROL AND TURF ESTABLISHMENT PLANS
23-32	CROSS SECTIONS

THIS PLAN CONTAINS 32 SHEETS



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.

SIGNATURE *Tyler Smith*
 DATE 5/5/2022 LIC. NO. 56135 PRINT NAME TYLER A. SMITH

RECOMMENDED FOR APPROVAL _____ CITY ENGINEER, CITY OF MAPLE GROVE _____ 20

THIS PLAN AND/OR SPECIFICATION WAS PREPARED SPECIFICALLY FOR THIS PROJECT, AND ANY RE-USE OF DETAILS OR SPECIFICATIONS ON OTHER PROJECTS IS NOT INTENDED OR AUTHORIZED BY THE DESIGNER. LIABILITY FOR ANY RE-USE ON OTHER PROJECTS IS THE RESPONSIBILITY OF THE PERSON, AGENCY, OR CORPORATION USING PLAN OR SPECIFICATION DATA FROM THIS PROJECT.

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

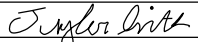

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NOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT TOTAL
				ESTIMATED QUANTITY
	2021.501	MOBILIZATION	LS	1
	2101.502	CLEARING	EACH	28
	2101.502	GRUBBING	EACH	28
	2104.502	SALVAGE CONCRETE APRON	EACH	1
	2104.502	SALVAGE SIGN PANEL TYPE C	EACH	6
	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	L F	33
	2104.503	REMOVE FENCE	L F	763
2	2104.503	SALVAGE FENCE	L F	183
	2104.504	REMOVE BITUMINOUS PAVEMENT	S Y	1231
1	2104.518	REMOVE RETAINING WALL	S F	5700
	2106.507	EXCAVATION - COMMON	C Y	1800
	2106.507	COMMON EMBANKMENT (CV)	C Y	200
3, 4	2360.509	TYPE SP 9.5 WEARING COURSE MIX (2;B)	TON	193
5	2411.618	PREFABRICATED MODULAR BLOCK WALL	S F	4190
	2501.502	INSTALL CONCRETE APRON	EACH	1
	2506.502	ADJUST FRAME & RING CASTING	EACH	1
	2521.518	4" CONCRETE WALK	S F	1185
	2557.503	WIRE FENCE DESIGN 48V-9322	L F	878
2	2557.603	INSTALL FENCE	L F	183
	2563.601	TRAFFIC CONTROL	LS	1
	2564.502	INSTALL SIGN PANEL TYPE C	EACH	6
7	2571.502	CONIFEROUS TREE 8' HT B&B	EACH	10
7	2571.502	DECIDUOUS TREE 2.5" CAL B&B	EACH	18
6	2572.503	TEMPORARY FENCE	L F	851
	2573.502	STORM DRAIN INLET PROTECTION	EACH	5
	2573.502	CULVERT END CONTROLS	EACH	1
	2573.503	SILT FENCE; TYPE HI	L F	360
	2573.503	SEDIMENT CONTROL LOG TYPE STRAW	L F	660
	2574.505	SUBSOILING	ACRE	0.3
	2574.505	SOIL BED PREPARATION	ACRE	0.3
8	2574.508	FERTILIZER TYPE 3	LB	60
	2575.504	SODDING TYPE LAWN	S Y	1140

NOTES

1. ASSUMES WALL EXTENDS 2' BELOW GROUND LINE AT FRONT FACE OF WALL
2. ITEM INCLUDES WOOD, PVC, AND CHAINLINK FENCE
3. ASSUMES 113 LB/SY/IN
4. AGGREGATE BASE INCIDENTAL
5. SEE TYPICAL SECTION FOR PAYMENT HEIGHT OF WALL AND SPECIAL PROVISIONS FOR OTHER REQUIREMENTS OF THIS PAY ITEM.
6. COORDINATE USE WITH PROPERTY OWNER AND USE AS DIRECTED BY FIELD ENGINEER.
7. TREES TO BE PROVIDED BY THE CITY OF MAPLE GROVE WITH TREE TYPES TO BE DETERMINED BY PROPERTY OWNER.
8. ANALYSIS 22-5-10, 200 LB/ ACRE OF SOD.

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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: <u>TYLER A. SMITH</u>  Date <u>5/5/2022</u> License # <u>56135</u>		CITY PROJECT NO. 19-09		DRAWN BY S. MARTINS DESIGNED BY T. SMITH CHECKED BY S. PRUSAK COMM. NO. 0012457				CITY OF MAPLE GROVE STATEMENT OF ESTIMATED QUANTITIES WEAVER LAKE RD RETAINING WALL RECONSTRUCTION			SHEET 2 OF 32
NO	DATE	BY	CKD	APPR	REVISION											
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CONSTRUCTION /SOILS NOTES

- 1 UNSUITABLE MATERIALS ARE TOPSOILS, OTHER ORGANIC SOILS, SILTY SOILS, AND DEBRIS.
- 2 SUITABLE MATERIALS SHALL BE ALL OTHER MINERAL SOILS ENCOUNTERED ON THE PROJECT OR FROM BORROW, NOT PREVIOUSLY DEFINED AS BEING UNSUITABLE.
- 3 SELECTED GRADING SOILS ARE DEFINED AS SUITABLE MATERIAL AVAILABLE ON THE PROJECT FROM THE ROADBED, ADJACENT CUTS OR APPROVED BORROW SOURCES.
- 4 GRANULAR MATERIAL IS DEFINED AS MATERIAL MEETING THE REQUIREMENTS OF SPEC. 3149.2A.
- 5 SELECT GRANULAR MATERIAL IS DEFINED AS MATERIAL MEETING THE REQUIREMENTS OF SPEC. 3149.2B2.
- 6 EXCESS UNSUITABLE MATERIAL SHALL BECOME THE PROPERTY OF THE DEVELOPER AND SHALL REMAIN WITHIN THE PROJECT LIMITS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. COORDINATE PLACEMENT OF STOCKPILES WITH THE ENGINEER.
- 9 PROVIDE FOR THE REMOVAL AND DISPOSAL OF ANY INPLACE ABANDONED UTILITIES, OTHER STRUCTURES OR DEBRIS THAT WOULD INTERFERE WITH CONSTRUCTION. ALL SUCH MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL EITHER BE RECYCLED TO THE EXTENT ALLOWED OR DISPOSED OF OFF THE PROJECT LIMITS.
- 12 COMPACTION OF THE GRADING SHALL BE PER MAPLE GROVE GRADING AND LANDSCAPING SECTION 3.
- 13 DITCH BOTTOMS, TOE OF FILL, CUT RUNOUTS AND THE TOP EDGE OF THE BACKSLOPES SHALL BE ROUNDED REGARDLESS OF THE TYPICAL SECTION SHOWN.
- 14 TURF ESTABLISHMENT BY SEEDING AND MULCH SHALL BE CONSISTENT WITH ALL PROVISIONS OF TURF ESTABLISHMENT SPECIFICATIONS IN THE MAPLE GROVE STANDARD SPECIFICATIONS FOR UTILITY AND STREET CONSTRUCTION 2018.
- 15 THE CONTRACTOR IS HEREBY REMINDED OF HIS RESPONSIBILITY UNDER STATE LAW TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. CONTACT MUST BE MADE THROUGH GOPHER STATE ONE-CALL: 1-800-252-1166
- 16 WHENEVER THE WORD "INCIDENTAL" IS USED IN THIS PLAN, IT SHALL MEAN THIS WORK WILL BE INCIDENTAL FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.
- 17 THE GRADING GRADE IS DEFINED AS THE BOTTOM OF THE AGGREGATE BASE.
- 18 RIGHT OF ENTRY HAS BEEN GRANTED TO THE CITY OF MAPLE GROVE TO REPLANT TREES OUTSIDE OF EXISTING R/W LINE AND D/U EASEMENTS.
- 19 ALL RC PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.

CITY OF MAPLE GROVE STANDARD PLATES

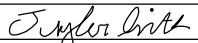

PLATE NO.	DESCRIPTION
EROS 1	SILT FENCE
EROS 3	SILT FENCE J-HOOK
EROS 7	INLET PROTECTION ROCK FILTER FOR CATCH BASIN DURING ROAD CONSTRUCTION
EROS 11	BIOLOG DITCH CHECK
EROS 12	INFRASAFE - CULVERT INLET PROTECTOR
EROS 13	CONSTRUCTION ROCK ENTRANCE
EROS 19	CURB INLET PROTECTION
EROS 20	INFRASAFE - SEDIMENT CONTROL BARRIER
EROS 21	INFRASAFE 2 X 3 DEBRIS COLLECTION DEVICE
STS 7	FLARED END SECTION
STS 10	PVC SUBDRAIN IN TO LOW POINT CATCH BASINS
STR 7	BITUMINOUS TRAIL TYPICAL SECTION

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

STANDARD PLATES

PLATE NO.	DESCRIPTION
8000 J	CHANNELIZERS

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<table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>BY</th> <th>CKD</th> <th>APPR</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					NO	DATE	BY	CKD	APPR	REVISION							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: <u>TYLER A. SMITH</u>  Date: <u>5/5/2022</u> License # <u>56135</u>		CITY PROJECT NO. 19-09	DRAWN BY S. MARTINS DESIGNED BY T. SMITH CHECKED BY S. PRUSAK COMM. NO. 0012457		CITY OF MAPLE GROVE CONSTRUCTION/SOILS NOTES AND STANDARD PLATES WEAVER LAKE RD RETAINING WALL RECONSTRUCTION	SHEET 3 OF 32
NO	DATE	BY	CKD	APPR	REVISION																		

EXISTING UTILITIES TABULATION

ALIGNMENT	LOCATION		INPLACE ITEM	UTILITY OWNER	REMARKS			NOTES
	STATION	OFFSET			LEAVE AS IS	ADJUST	RELOCATE	
WB WEAVER LAKE RD	100+00 TO 101+17	8' LT TO 11' LT	4" GAS	Centerpoint Energy	X			
WB WEAVER LAKE RD	100+60 TO 100+61	37' LT TO 12' LT	2" GAS	Centerpoint Energy		X		
WB WEAVER LAKE RD	101+16 TO 107+08	16' LT TO 18' LT	4" GAS	Centerpoint Energy	X			
WB WEAVER LAKE RD	101+16 TO 101+17	16' LT TO 11' LT	4" GAS	Centerpoint Energy	X			
WB WEAVER LAKE RD	107+08 TO 107+08	18' LT TO 16' LT	4" GAS	Centerpoint Energy	X			
WB WEAVER LAKE RD	107+08 TO 112+61	16' LT	4" GAS	Centerpoint Energy	X			
WB WEAVER LAKE RD	112+17	16' LT	GAS VALVE	Centerpoint Energy		X		
WB WEAVER LAKE RD	112+61 TO 113+06	16' LT TO 13' LT	4" GAS	Centerpoint Energy	X			
WB WEAVER LAKE RD	112+61 TO 112+61	16' LT TO 59' RT	3" GAS	Centerpoint Energy	X			
WB WEAVER LAKE RD	100+21 TO 100+22	91' LT TO 36' LT	BURIED FIBER	Century Link Communications	X			
WB WEAVER LAKE RD	100+22 TO 100+87	36' LT TO 17' LT	BURIED FIBER	Century Link Communications	X			
WB WEAVER LAKE RD	100+87 TO 112+79	17' LT TO 21' LT	BURIED FIBER	Century Link Communications	X			
WB WEAVER LAKE RD	100+34	35' LT	HANDHOLE	City of Maple Grove	X			
WB WEAVER LAKE RD	100+38	29' LT	SIG MAST ARM	City of Maple Grove	X			
WB WEAVER LAKE RD	100+28 TO 100+34	90' LT TO 87' RT	BURIED TEL	Comcast	X			
WB WEAVER LAKE RD	100+36 TO 112+82	23' LT TO 29' LT	BURIED TEL	Comcast		X		
WB WEAVER LAKE RD	100+43 TO 101+68	154' LT TO 32' LT	BURIED TEL	Comcast	X			
WB WEAVER LAKE RD	101+68	32' LT	TEL PED	Comcast		X		
WB WEAVER LAKE RD	101+68 TO 111+26	32' LT TO 29' LT	BURIED TEL	Comcast		X		
WB WEAVER LAKE RD	104+08	29' LT	TEL PED	Comcast		X		
WB WEAVER LAKE RD	106+30	29' LT	TEL PED	Comcast		X		
WB WEAVER LAKE RD	108+16	30' LT	TEL PED	Comcast		X		
WB WEAVER LAKE RD	111+26 TO 111+26	138' LT TO 33' LT	BURIED TEL	Comcast	X			
WB WEAVER LAKE RD	111+26	33' LT	TEL PED	Comcast	X			
WB WEAVER LAKE RD	111+26 TO 113+06	29' LT TO 31' LT	BURIED TEL	Comcast	X			
WB WEAVER LAKE RD	100+23 TO 100+29	91' LT TO 90' RT	BURIED POWER	Xcel Energy	X			
WB WEAVER LAKE RD	100+25 TO 100+30	91' LT TO 61' RT	BURIED POWER	Xcel Energy	X			
WB WEAVER LAKE RD	100+30 TO 100+41	61' RT	BURIED POWER	Xcel Energy	X			
WB WEAVER LAKE RD	100+41 TO 100+42	61' RT TO 92' RT	BURIED POWER	Xcel Energy	X			
WB WEAVER LAKE RD	105+48 TO 112+81	43' RT TO 26' LT	BURIED POWER	Xcel Energy		X		
WB WEAVER LAKE RD	105+49 TO 112+79	43' RT TO 25' LT	BURIED POWER	Xcel Energy		X		
WB WEAVER LAKE RD	111+21 TO 111+21	32' LT TO 23' LT	BURIED POWER	Xcel Energy	X			
WB WEAVER LAKE RD	111+21 TO 112+65	23' LT TO 24' LT	BURIED POWER	Xcel Energy	X			
WB WEAVER LAKE RD	111+22	32' LT	TRANSFORMER	Xcel Energy	X			
WB WEAVER LAKE RD	111+22 TO 111+22	32' LT TO 25' LT	BURIED POWER	Xcel Energy	X			
WB WEAVER LAKE RD	112+65 TO 112+66	24' LT TO 50' RT	BURIED POWER	Xcel Energy	X			
WB WEAVER LAKE RD	100+00 TO 113+00		BURIED FIBER	Arvig/ Osseo Area Schools				①
WB WEAVER LAKE RD	100+00 TO 113+00		BURIED FIBER	Zayo Bandwidth				①

1

NOTES:

- ① UTILITY IDENTIFIED IN THE AREA, LOCATION NOT CONFIRMED. UTILITY NOT SHOWN IN PLANS OR CROSS SECTIONS. CONTRACTOR TO CONFIRM LOCATION WITH UTILITY OWNER AND COORDINATE ANY RELOCATIONS.

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6/2/2022	TAS	SP	TAS	ADDENDUM #1
NO	DATE	BY	CKD	APPR

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: TYLER A. SMITH

Tyler Smith

Date: 5/5/2022 License #: 56135

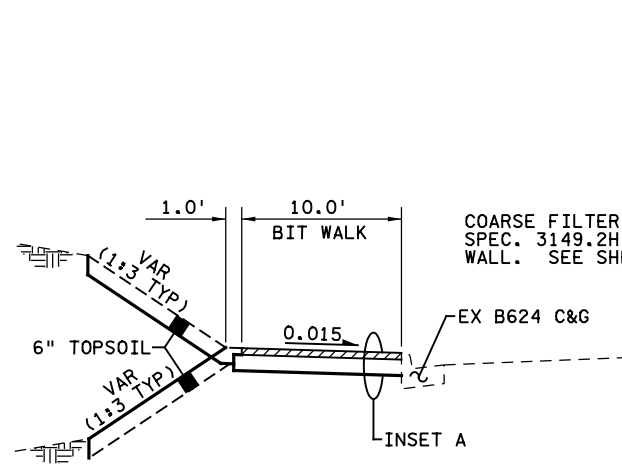
CITY PROJECT NO. 19-09

DRAWN BY
S. MARTINS
DESIGNED BY
T. SMITH
CHECKED BY
S. PRUSAK
COMM. NO. 0012457



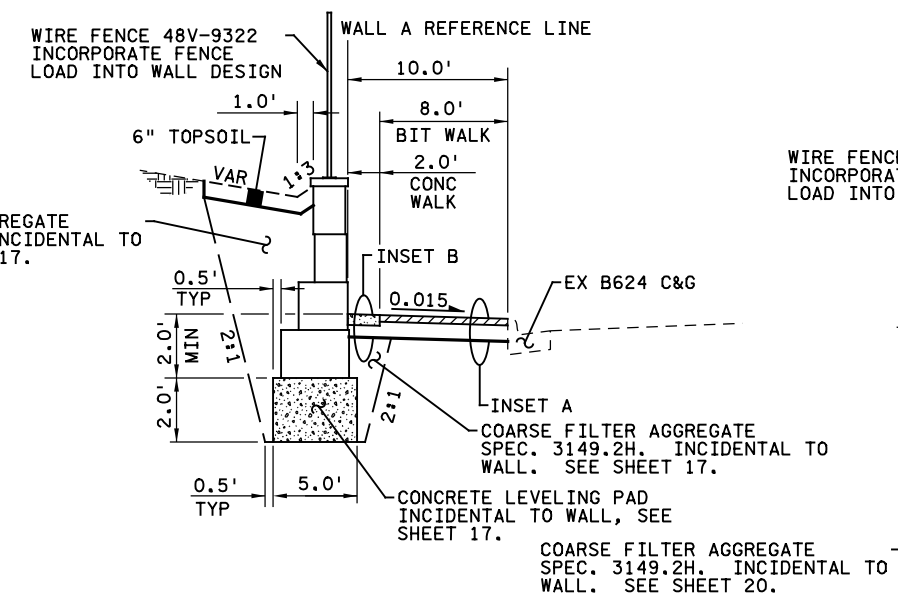
CITY OF MAPLE GROVE
EXISTING UTILITY TABULATIONS
WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

SHEET
4
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32



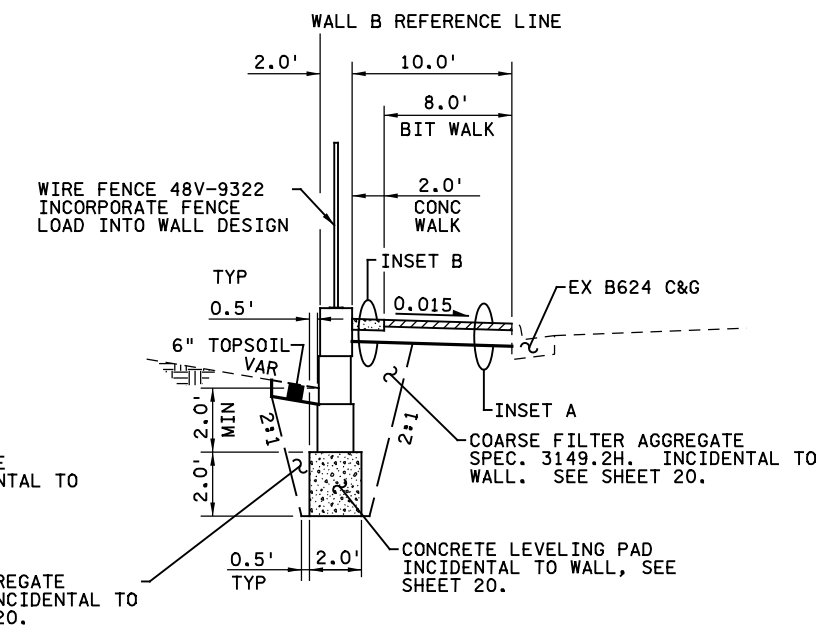
TYPICAL SECTION 1

WB WEAVER LAKE RD STA. 100+42.9 TO STA. 101+30.0
 WB WEAVER LAKE RD STA. 106+03.2 TO STA. 106+89.7
 WB WEAVER LAKE RD STA. 108+09.7 TO STA. 112+57.3



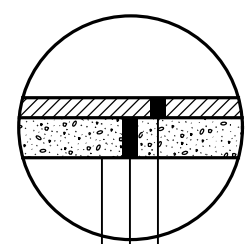
TYPICAL SECTION 2

RETAINING WALL A
 WB WEAVER LAKE RD STA. 101+30.0 TO STA. 106+03.2
 WALL A STA 10+02.5 TO STA 14+75.0



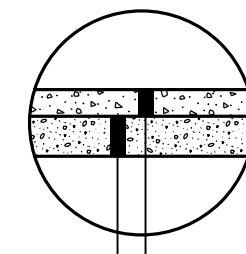
TYPICAL SECTION 3

RETAINING WALL B
 WB WEAVER LAKE RD STA. 106+89.7 TO STA. 108+09.7
 WALL B STA 20+10.0 TO STA 21+30.0



INSET A

2.5" TYPE SP 9.5 WEARING COURSE MIXTURE (2,B)
 MNDOT SPEC 2360, (SPWEA230B)
 6.0" AGGREGATE BASE (INCIDENTAL)
 CLASS 5, MNDOT SPEC 2211
 GRADING GRADE



INSET B

4.0" CONCRETE WALK,
 MNDOT SPEC. 2521
 4.5" AGGREGATE BASE (INCIDENTAL)
 CLASS 5, MNDOT SPEC. 2211

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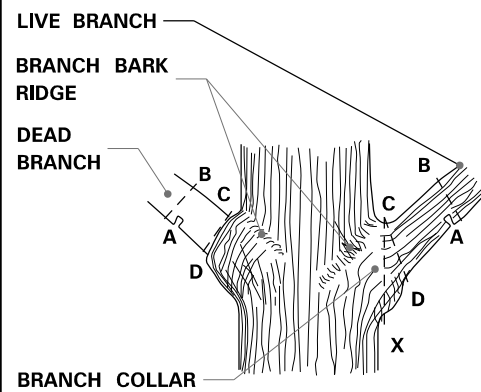
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: TYLER A. SMITH
Tyler Smith
 Date: 5/5/2022 License # 56135

CITY PROJECT NO. 19-09
 DRAWN BY S. MARTINS
 DESIGNED BY T. SMITH
 CHECKED BY S. PRUSAK
 COMM. NO. 0012457



CITY OF MAPLE GROVE
 TYPICAL SECTIONS
 WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

SHEET 5 OF 32



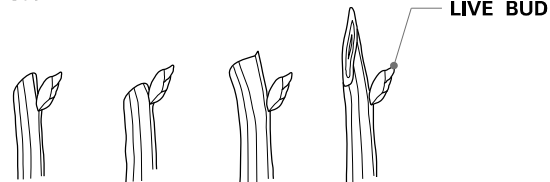
- STEPS TO PRUNING WITH PRUNING SAW:
1. CUT PART WAY THROUGH THE BRANCH AT POINT A.
 2. CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
 3. AT BRANCH COLLAR CUT FROM POINT C TO D.

INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

BRANCHES PRUNED AT TRUNK (SHIGO METHOD)

- CORRECT PRUNING CUT TOO CLOSE TOO LONG TOO SLANTED

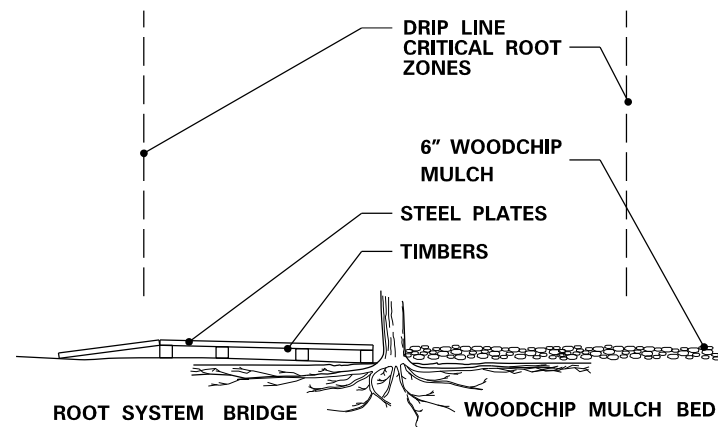


- PRUNING NOTES:
1. PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.
 2. THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
 3. AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
 4. IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

BRANCHES PRUNED TO LIVE BUD

PRUNING

(MnDOT 2571.3E.1 and 2571.3K.2.a(9))



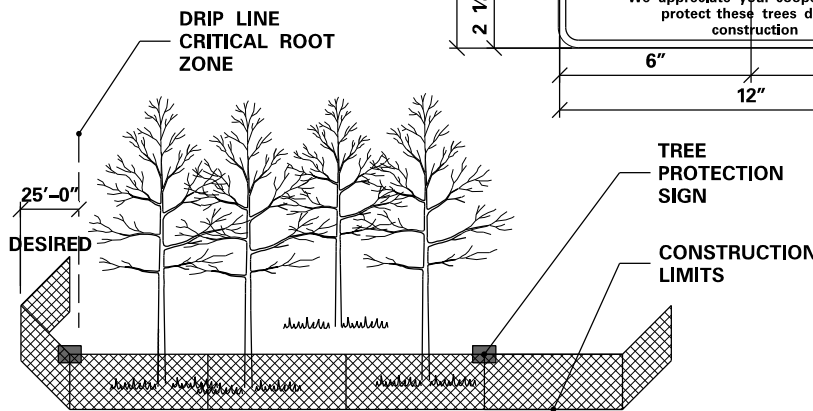
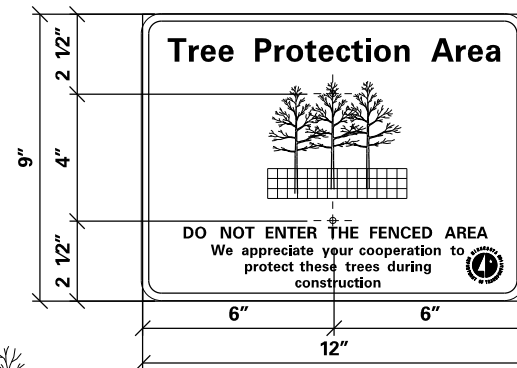
IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, THE CONTRACTOR MUST EITHER:

1. CONSTRUCT ROOT SYSTEM BRIDGES WITH STEEL PLATE SUPPORTED ON WOOD TIMBERS PLACED RADIALLY TO THE TREE TRUNK.
- OR
2. PLACE A 6 INCH LAYER OF WOODCHIP MULCH OVER A TYPE III GEOTEXTILE (MnDOT 3733).

OTHER VEGETATION PROTECTION MEASURES

(MnDOT 2572.3A.12)

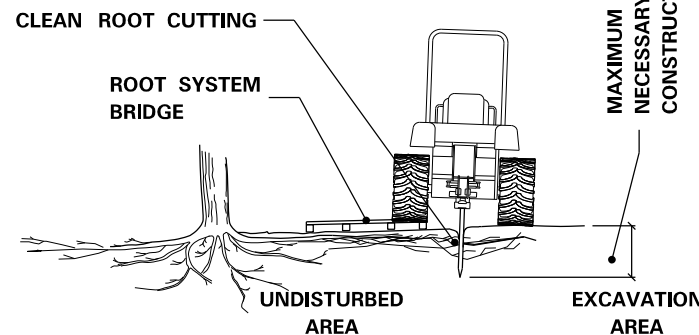
1. FABRICATE 12" X 9" X 3/8" SIGN WITH 0.75" RADIUS CORNERS.
2. SIGN SHALL BE WHITE WITH BLACK LETTERING.
3. ATTACH SIGN TO POST USING 1" LENGTH WOOD SCREWS.



1. FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIPLINE OR CONSTRUCTION LIMITS AS SPECIFIED, PRIOR TO ANY CONSTRUCTION.
2. WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIP LINE.
3. PLACE TREE PROTECTION SIGNS ALONG FENCE AT 50' INTERVALS.

TEMPORARY FENCE

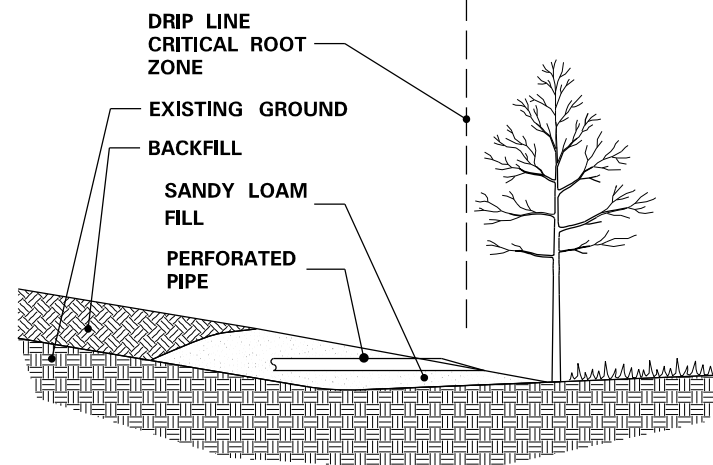
(MnDOT 2572.3A.1)



1. WHEN DESIGNATED IN THE PLAN OR DIRECTED BY THE ENGINEER, PRIOR TO EXCAVATION, ALL TREE ROOTS WILL BE CLEANLY CUT BY A VIBRATORY PLOW OR OTHER APPROVED ROOT CUTTER.
2. THE TREE ROOTS WILL BE CUT CLEANLY TO THE MINIMUM DEPTH NECESSARY FOR CONSTRUCTION.
3. IMMEDIATELY, AND CLEANLY CUT DAMAGED AND EXPOSED ROOTS.
4. ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6" LAYER OF ADJACENT SOIL.
5. EXPOSED CUT OAK ROOTS SHALL BE IMMEDIATELY (WITHIN 5 MINUTES) TREATED WITH A WOUND DRESSING MATERIAL CONSISTING OF LATEX PAINT OR SHELLAC.

CLEAN ROOT CUTTING

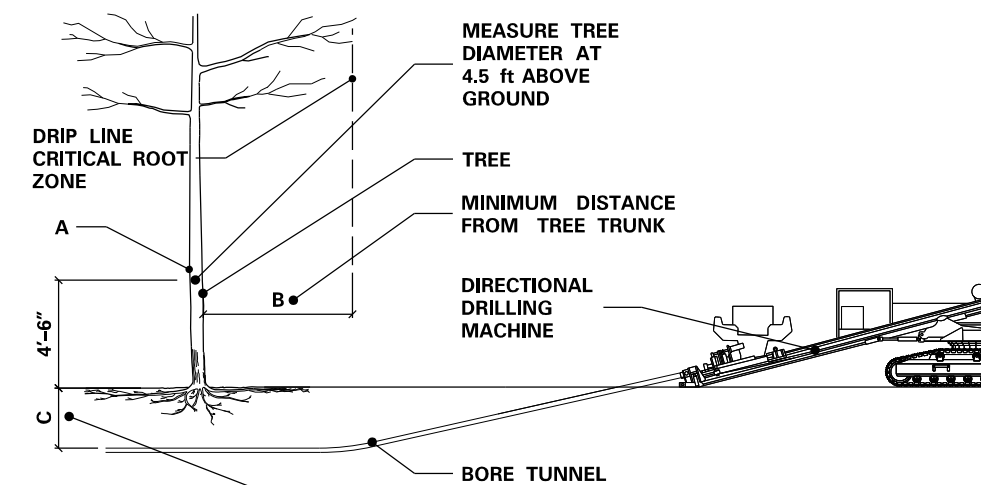
(MnDOT 2572.3A.2)



1. ANY FILL REQUIRED WITHIN THE DRIP LINE OF TREES, IS UNCOMPACTED ROOTING TOPSOIL BORROW.
2. EXCESSIVE FILL MAY REQUIRE PLACING PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END OPENING AS AN AERATION SYSTEM.

ROOTING TOPSOIL BORROW

(MnDOT 2572.3A.4)



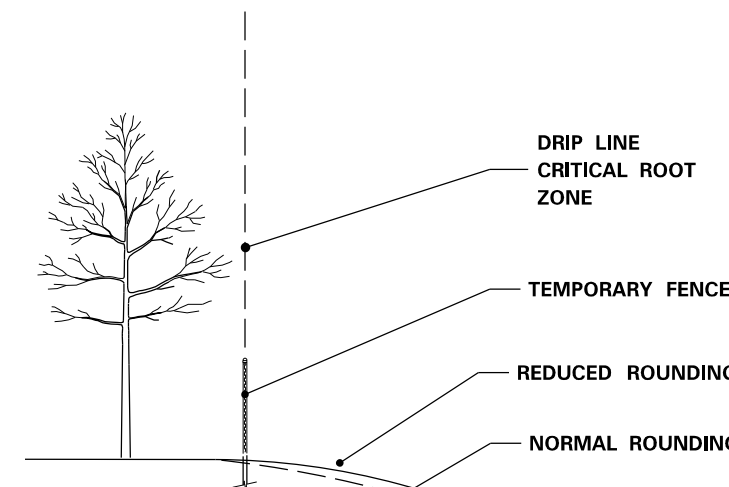
NOTE:

1. (A) IS THE DIAMETER OF TREES MEASURED 4'-6" FEET ABOVE THE GROUND AND IS TERMED THE "DIAMETER AT BREAST HEIGHT," (DBH).
2. USING A TREE DIAMETER TAPE, WRAP THE TAPE AROUND THE GIRTH OF THE TREE, AT THE DBH, BEING CAREFUL NOT TO TWIST THE TAPE.

TREE PROTECTION ZONE		
A	B	C
< 2"	2'	2'
2-4"	4'	2.5'
> 4-9"	6'	2.5'
> 9-14"	10'	3'
> 14-19"	12'	3.25'
> 19"	15'	4'

UTILITY CONSTRUCTION

(MnDOT 2572.3A.5)



SIGNIFICANT TREES NEAR THE PROPOSED CONSTRUCTION LIMITS WILL BE IDENTIFIED IN THE PLAN OR BY THE ENGINEER AND WILL BE PRESERVED BY THE CONTRACTOR.

1. PLACE THE TEMPORARY FENCE.
2. REDUCE SLOPE ROUNDING WHERE ROOT ZONES ARE DISTURBED BY NORMAL SLOPE ROUNDING.
3. VARY BACKSLOPE STEEPNESS TO AVOID TREE LOSS OR UNNECESSARY ROOT DAMAGE.

SLOPE ROUNDING

REVISION:
APPROVED: DECEMBER 11, 2015
Chris Elvick
CHIEF ENVIRONMENTAL OFFICER



STANDARD PLAN 5-297.302

1 OF 1

Tom Ska
STATE DESIGN ENGINEER

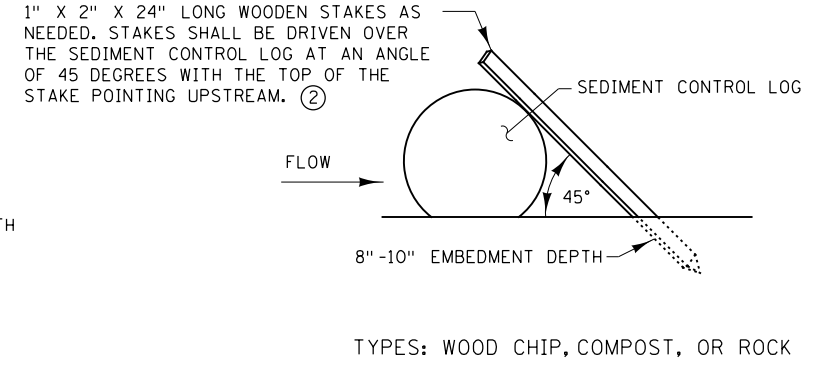
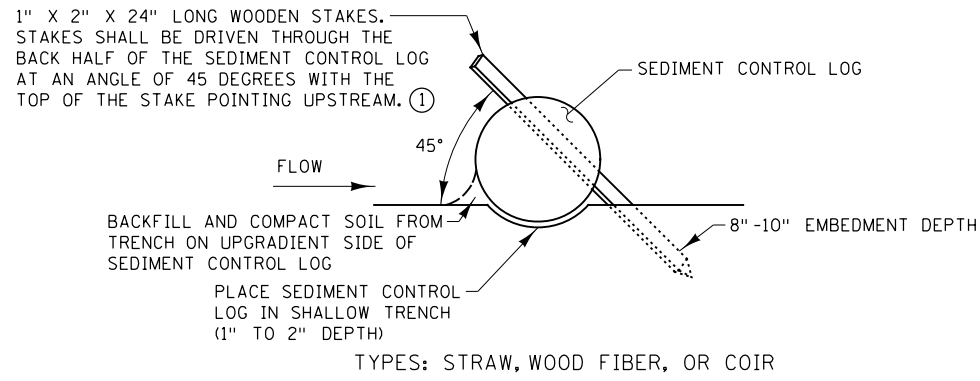
APPROVED: 12-11-2015
REVISED:

STATE PROJ. NO.

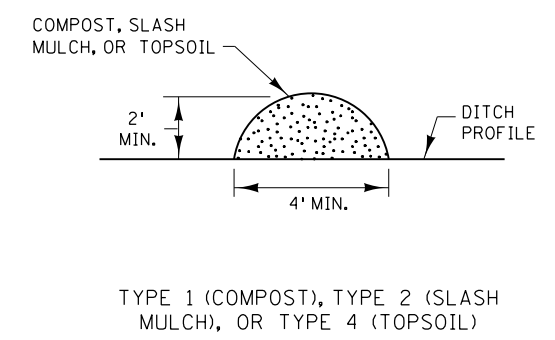
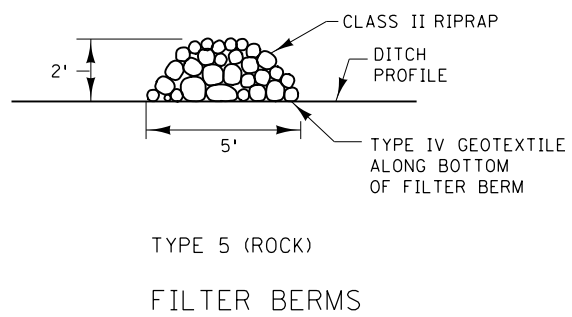
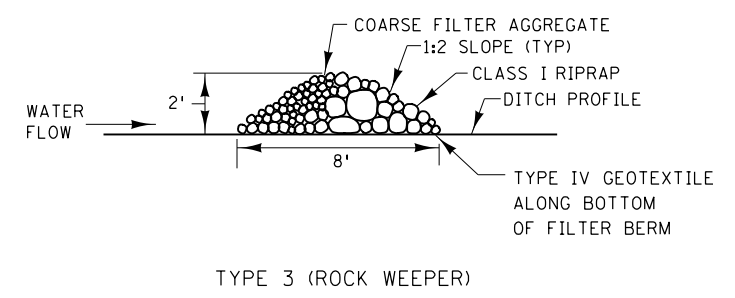
PROTECTION AND RESTORATION OF VEGETATION

SHEET NO. 6 OF 32 SHEETS

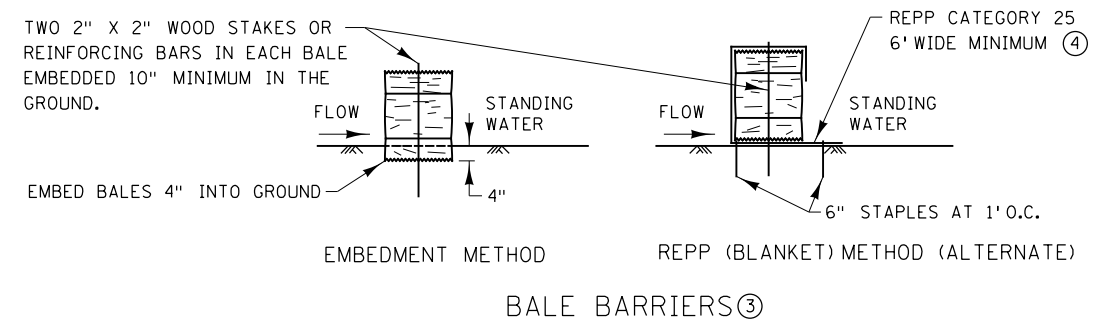
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SEDIMENT CONTROL LOGS



FILTER BERMS



NOTES:

- REPP = ROLLED EROSION PREVENTION PRODUCT.
- SEE SPECS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3897.
- ① SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1' FOR DITCH CHECKS OR 2' FOR OTHER APPLICATIONS.
- ② PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.
- ③ TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS (6" MAXIMUM DEPTH). BALES SHALL CONSIST OF TYPE 1 MULCH OF APPROXIMATELY 14" X 18" X 36" LONG. BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.
- ④ INSTEAD OF TRENCHING, PLACE BALE ON THE REPP (BLANKET) AND WRAP BLANKET AROUND THE BALE. PLACE STAKE THROUGH BALE AND BLANKET.

REVISION:

APPROVED: JANUARY 8, 2020

Marni Karnowski

MARNI KARNOWSKI
CHIEF ENVIRONMENTAL OFFICER

m MINNESOTA
DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.405 2 OF 8

Tom Styrbicki
THOMAS STYRBICKI
STATE DESIGN ENGINEER

APPROVED: 1-8-2020
REVISED:

STATE PROJ. NO.

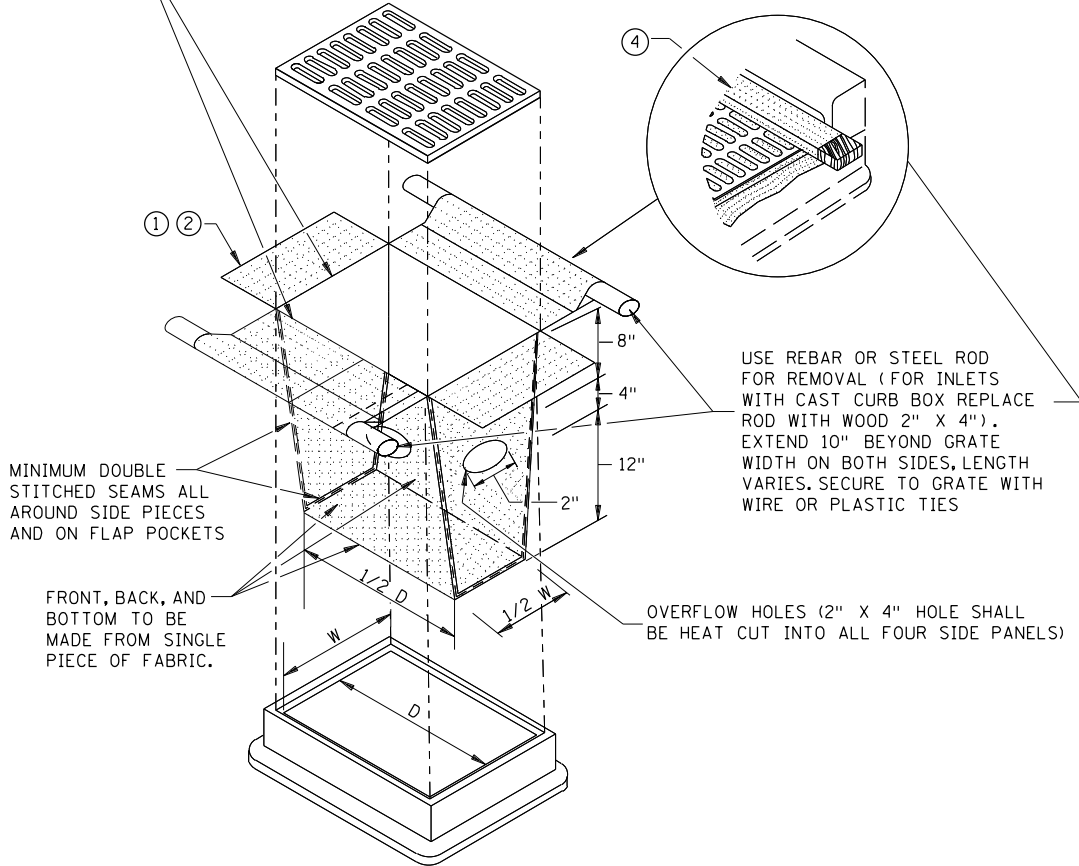
TEMPORARY SEDIMENT CONTROL

FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS

SHEET NO. 7 OF 32 SHEETS

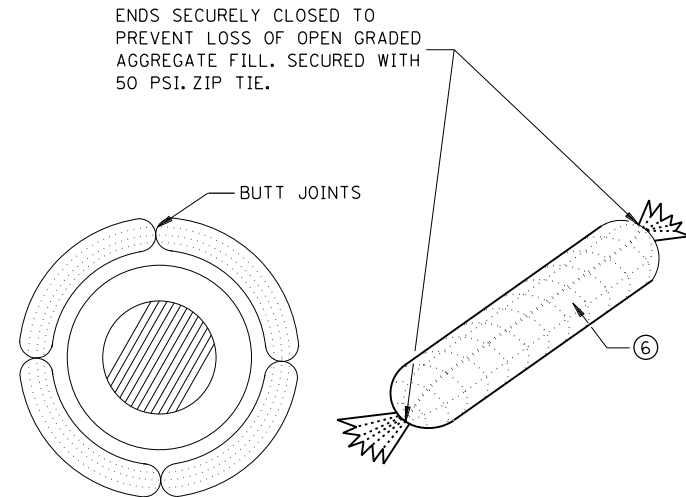
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INLET SPECIFICATIONS AS PER THE PLAN
DIMENSION LENGTH AND WIDTH TO MATCH
FLAP POCKET

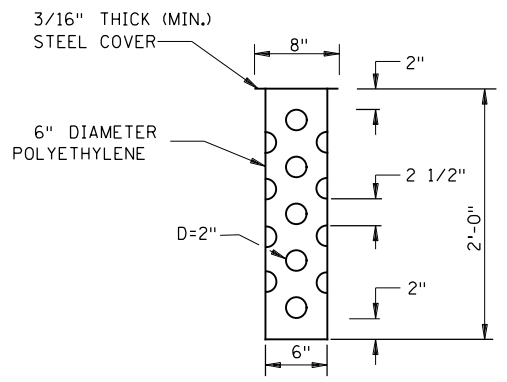


FILTER BAG INSERT ③

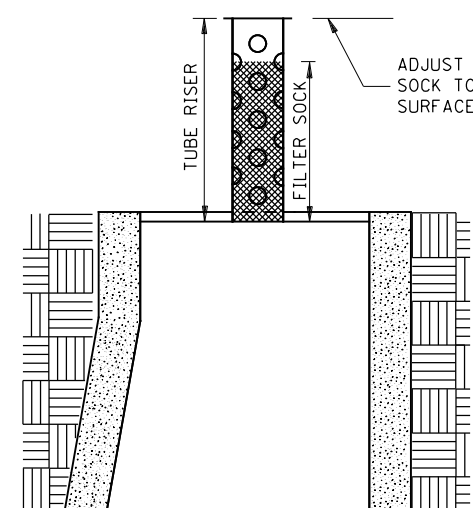
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX)



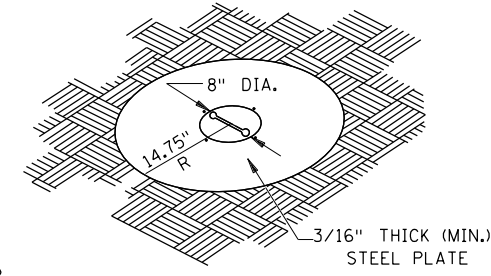
ROCK LOG/COMPOST LOG



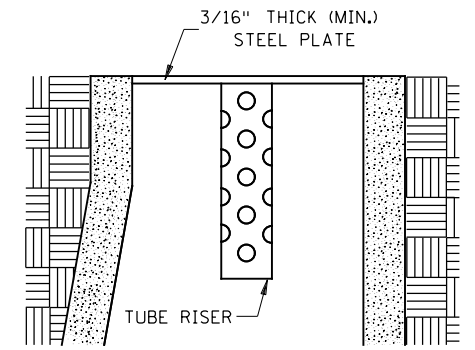
TUBE RISER



SECTION (UP POSITION)

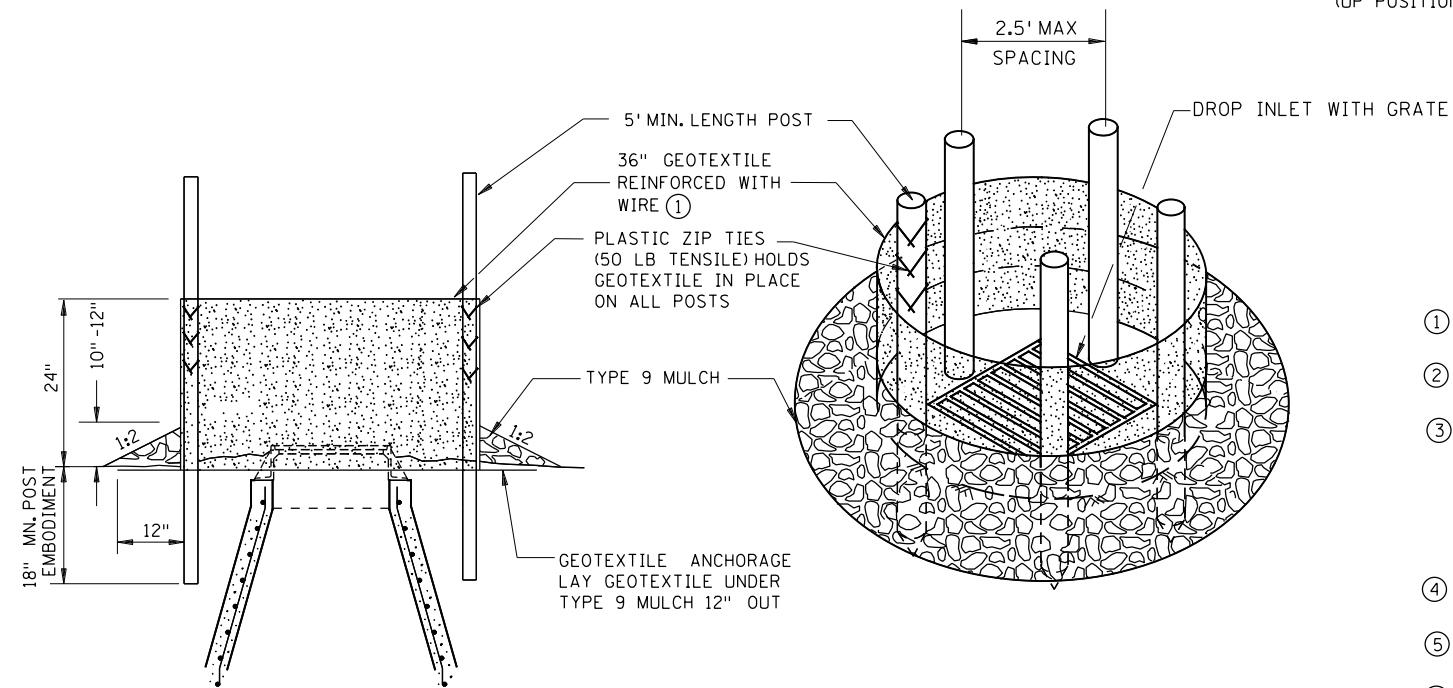


PERSPECTIVE VIEW



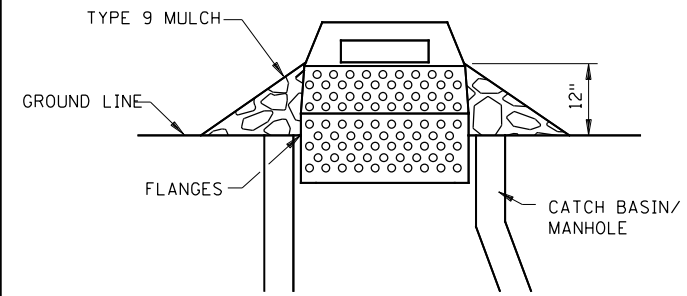
SECTION (DOWN POSITION)

POP-UP HEAD



SILT FENCE RING AND ROCK FILTER BERM

USE WHERE INLET DRAINS IN AN AREA WITH SLOPES AT 1:3 OR LESS



SEDIMENT CONTROL INLET HAT

NOTE:
THE SEDIMENT CONTROL BARRIER SHALL BE A METAL OR PLASTIC/POLYETHYLENE RISER SIZED TO FIT INSIDE THE CATCH BASIN/MANHOLE; HAVE PERFORATIONS TO ALLOW FOR WATER INFILTRATION; HAVE AN OVERFLOW OPENING, FLANGES AND A LID/COVER.

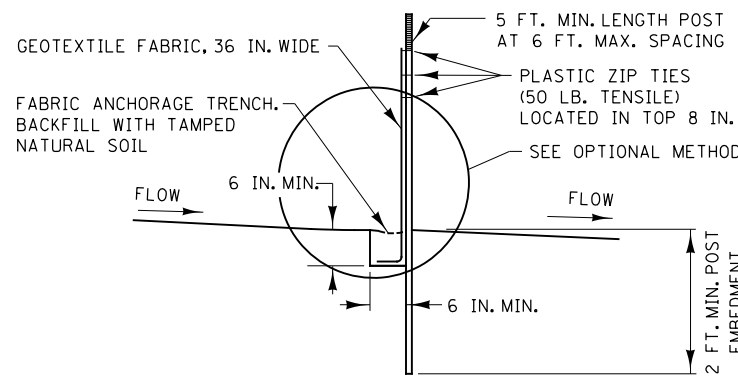
NOTES:

- SEE SPECS. 2573, 3137, & 3886.
- DEVICES MUST BE ADJUSTED ACCORDINGLY AS TO NOT CAUSE FLOODING ON ROADWAY THAT WOULD IMPEDE TRAFFIC FLOW.
- ① ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886.
- ② FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ③ INSTALLATION NOTES:
DO NOT PLACE FILTER BAG INSERT IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE PLACED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES. WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCH SIDE CLEARANCE.
- ④ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE FLAP POCKETS.
- ⑤ SOCK HEIGHT MUST NOT BE SO HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE FLOODING OF THE ROADWAY.
- ⑥ GEOTEXTILE SOCK BETWEEN 4-10 FEET LONG AND 4-6 INCH DIAMETER. SEAM TO BE JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR PROVIDE A HEAT BONDED SEAM (OR APPROVED EQUIVALENT). FILL ROCK LOG WITH OPEN GRADED AGGREGATE CONSISTING OF SOUND DURABLE PARTICLES OF COARSE AGGREGATE CONFORMING TO SPEC. 3137 TABLE 3137-1; CA-3 GRADATION.

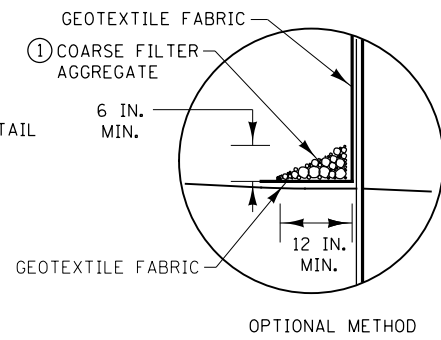
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REVISION:
APPROVED: 2-28-2017
<i>[Signature]</i> CHIEF ENVIRONMENTAL OFFICER

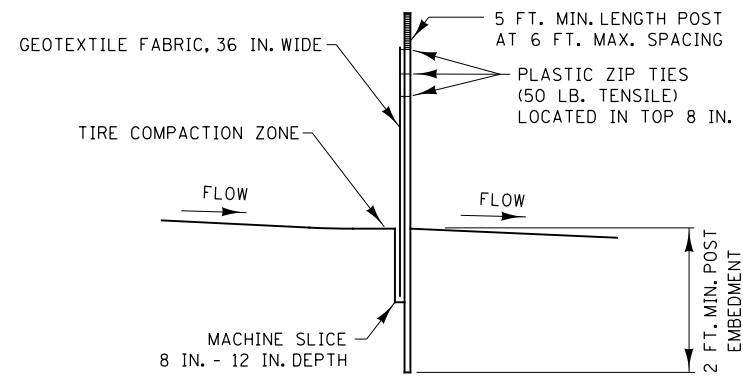
	STANDARD PLAN 5-297.405	4 OF 8
	APPROVED: 2-28-2017 REVISED:	
STATE DESIGN ENGINEER <i>[Signature]</i>	STATE PROJ. NO.	



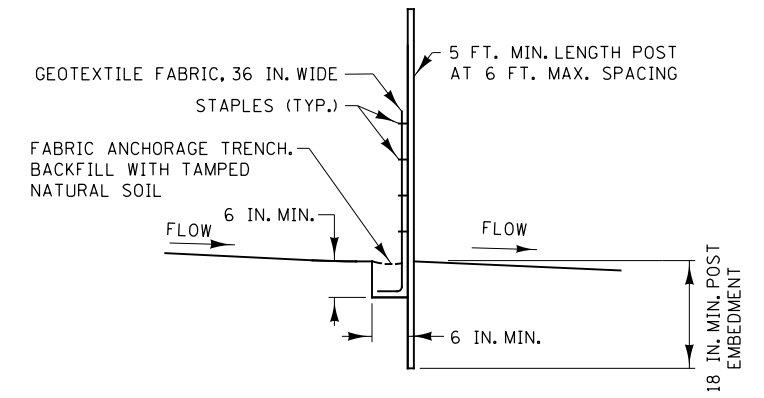
**SILTS FENCE TYPE HI ②
(HAND INSTALLED)**



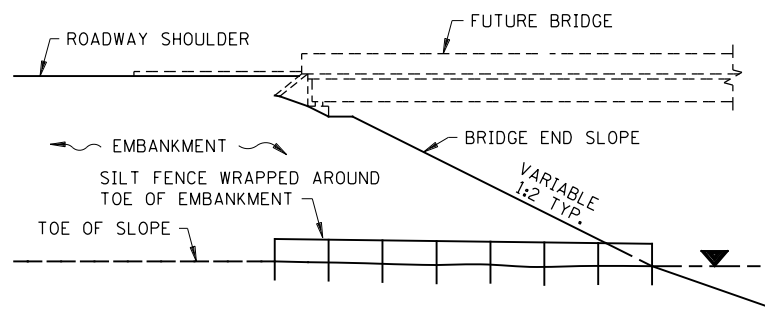
OPTIONAL METHOD



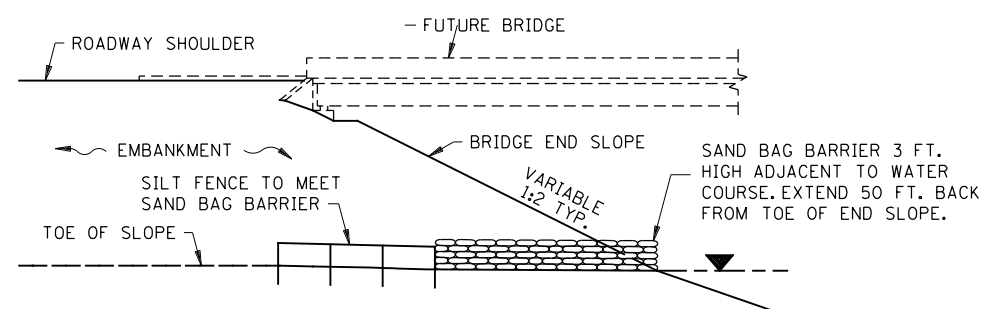
**SILTS FENCE TYPE MS ②
(MACHINE SLICED)**



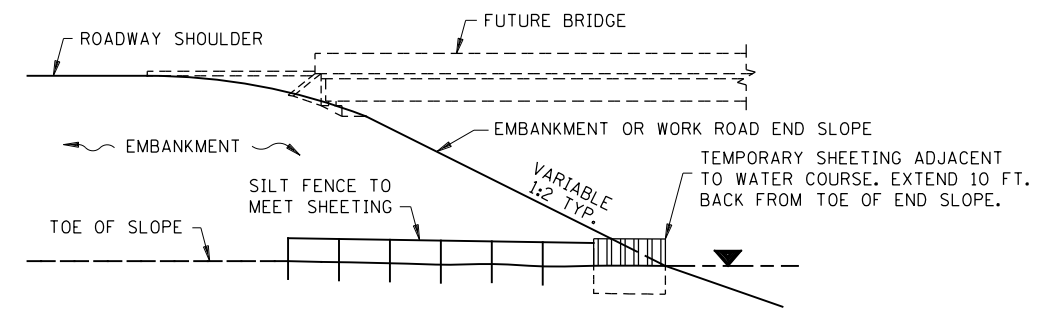
**SILTS FENCE TYPE PA ③
(PREASSEMBLED)**



SILTS FENCE ONLY ④

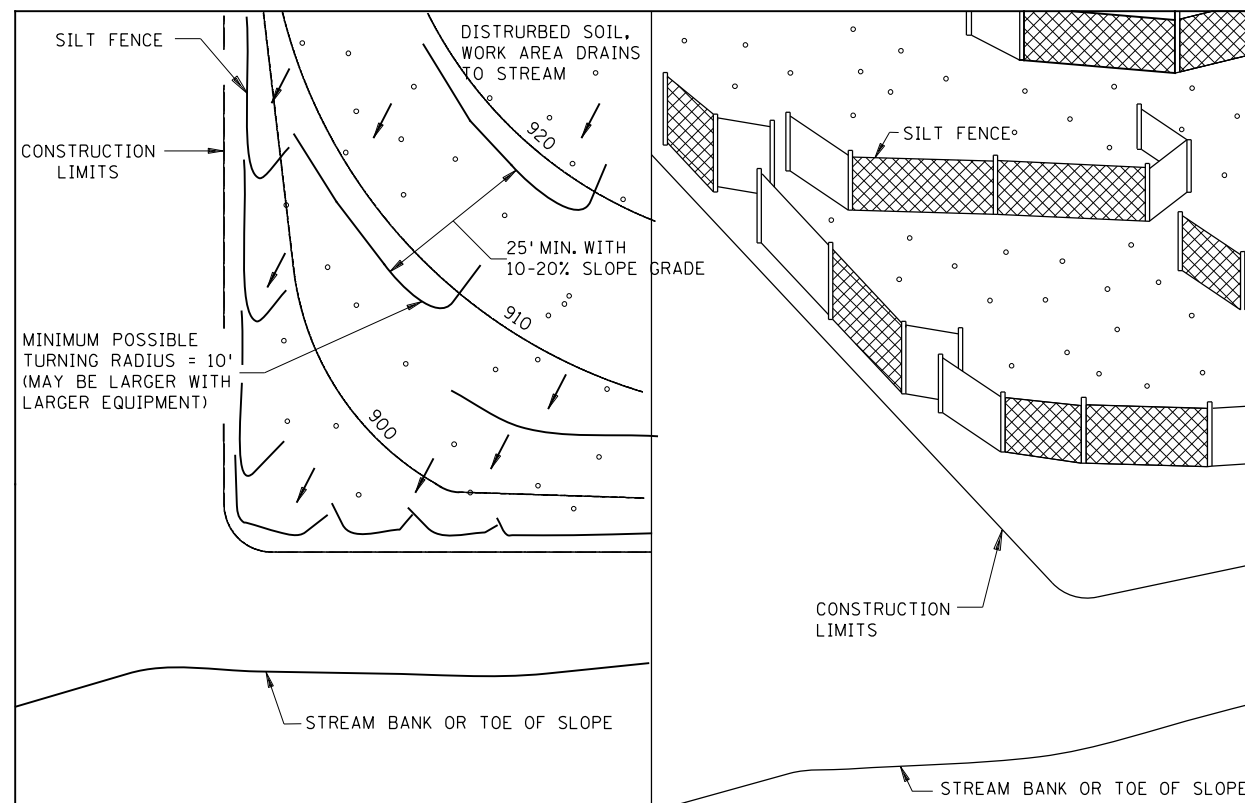


SILTS FENCE WITH SAND BAGS ⑤



SILTS FENCE WITH SHEETING ⑥

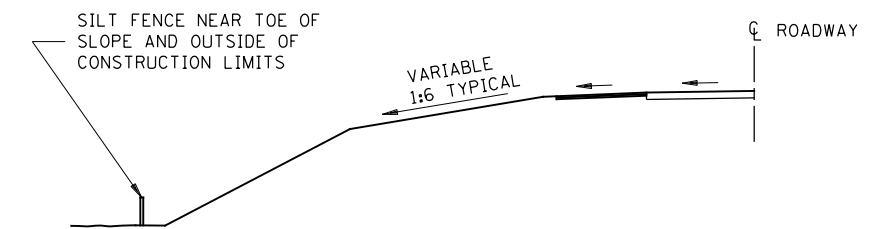
INSTALLATION AT BRIDGE EMBANKMENT ADJACENT TO WATER



PLAN VIEW

PERSPECTIVE VIEW

J-HOOK INSTALLATION



LOCATION AT TOE OF ROADWAY EMBANKMENT

NOTES:

- SEE SPECS. 2573, 3149 & 3886.
- ① COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
- ② TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 1 ACRE.
- ③ TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.
- ④ WATER COURSE FLOW VELOCITY: STANDING. CONTRIBUTING SLOPE AREA: 1/2 ACRE.
- ⑤ WATER COURSE FLOW VELOCITY: 1 TO 7 FT./SEC. CONTRIBUTING SLOPE AREA: 1 ACRE.
- ⑥ WATER COURSE FLOW VELOCITY: 8 TO 15 FT./SEC. CONTRIBUTING SLOPE AREA: 3 ACRES.

REVISION:
APPROVED: 2-28-2017
[Signature]
CHIEF ENVIRONMENTAL OFFICER

m
MINNESOTA
DEPARTMENT
OF
TRANSPORTATION

STANDARD PLAN 5-297.405

6 OF 8

APPROVED: 2-28-2017
REVISED:

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STATE DESIGN ENGINEER

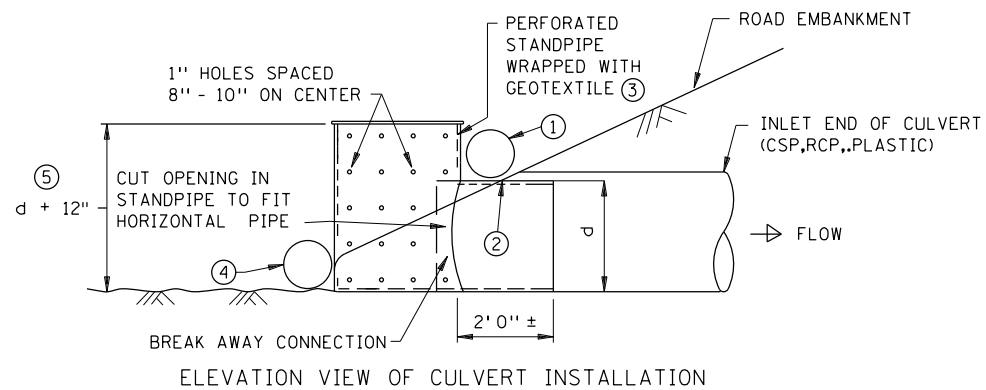
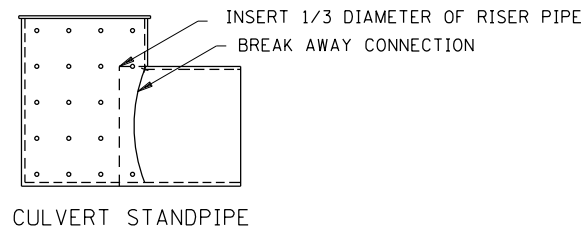
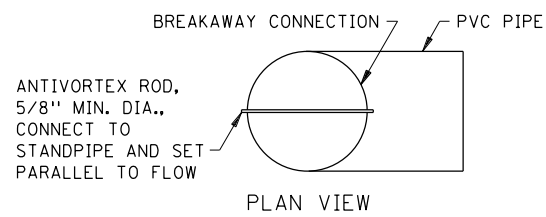
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TEMPORARY SEDIMENT CONTROL

SILTS FENCE

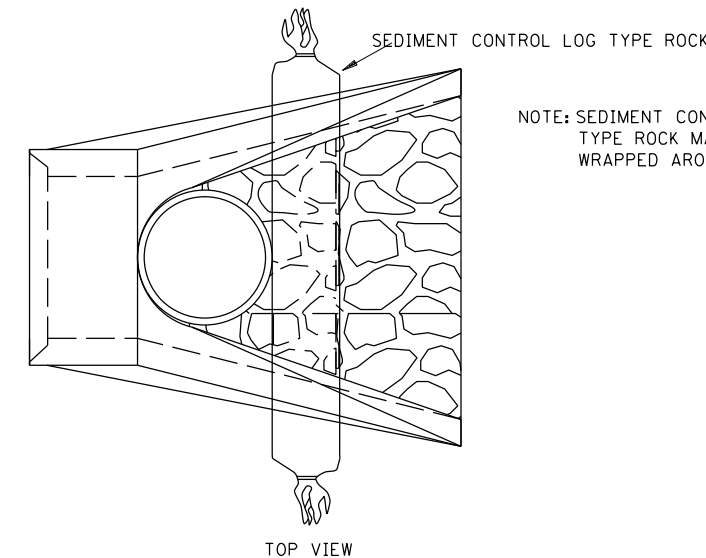
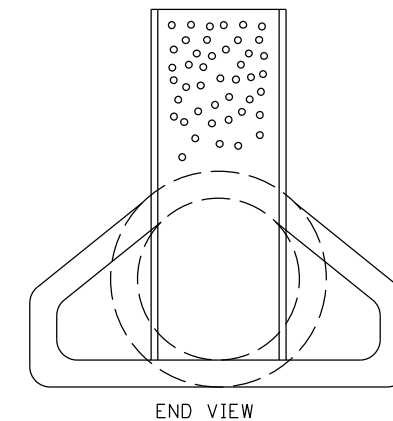
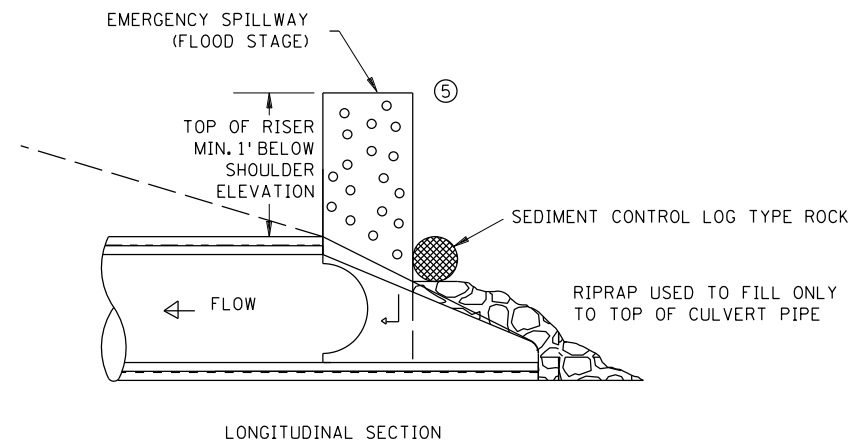
SHEET NO. 9 OF 32 SHEETS

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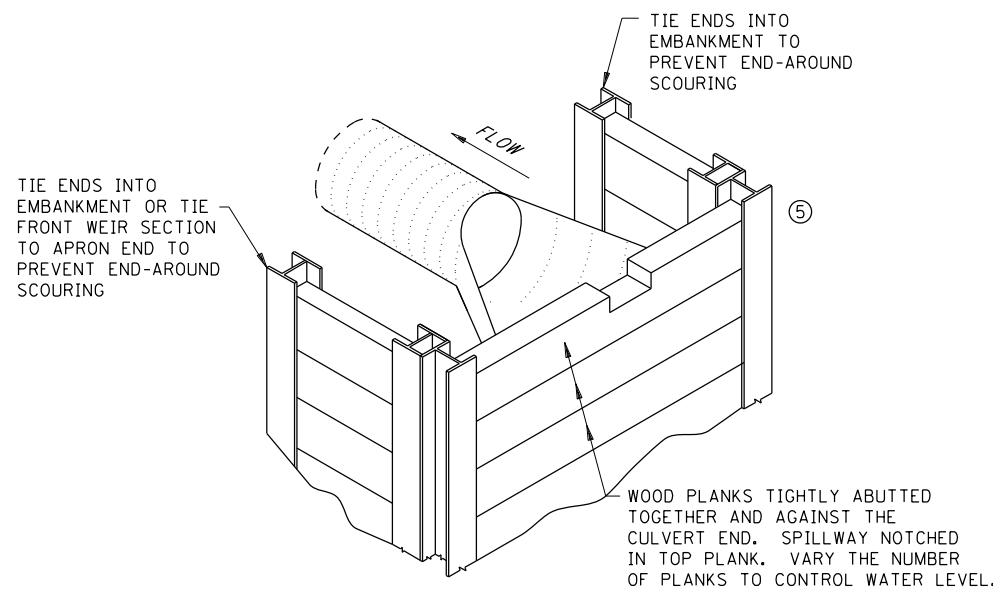
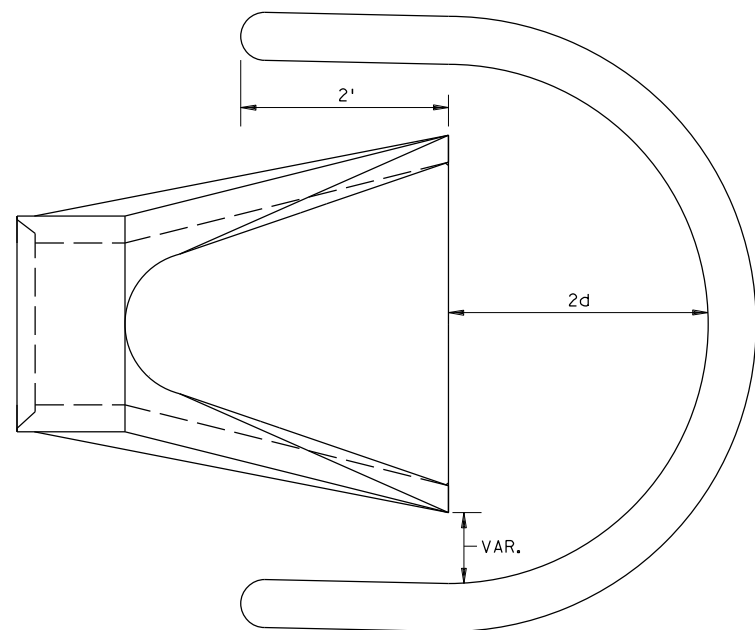


CULVERT STANDPIPE INSERT (D-RISER)

d= CULVERT SIZE: 12" - 36"



CULVERT STANDPIPE INSERT (D-RISER)



WOOD PLANK WEIR

NOTES:

- SEE SPECS. 2573, 3891 & 3893.
- FOR USE WHEN TEMPORARY PONDING IS NEEDED IN DITCH SECTIONS FOR SEDIMENT CONTROL.
- MANUFACTURED ALTERNATIVES LISTED ON MnDOT'S APPROVED PRODUCTS LIST MAY BE SUBSTITUTED AT NO ADDITIONAL COST.
- ① ROCK LOG OR SANDBAG TO HOLD STANDPIPE AND ACT AS A SEAL BETWEEN RISER PIPE AND CULVERT.
- ② PLACE CULVERT APRON AND SLIDE TEMPORARY STANDPIPE INTO CSP OR RCP CULVERT.
- ③ ALL GEOTEXTILE USED FOR CULVERT PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886 FOR MACHINE SLICED.
- ④ ROCK LOG OR RIP RAP TO HOLD STANDPIPE AND ACT AS A FILTER BETWEEN RISER PIPE AND CULVERT.
- ⑤ HEIGHT OVERFLOW NOT TO CAUSE FLOODING OF ROAD OR ADJACENT PROPERTIES.

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REVISION:
APPROVED: 2-28-2017
[Signature]
CHIEF ENVIRONMENTAL OFFICER



STANDARD PLAN 5-297.405

8 OF 8

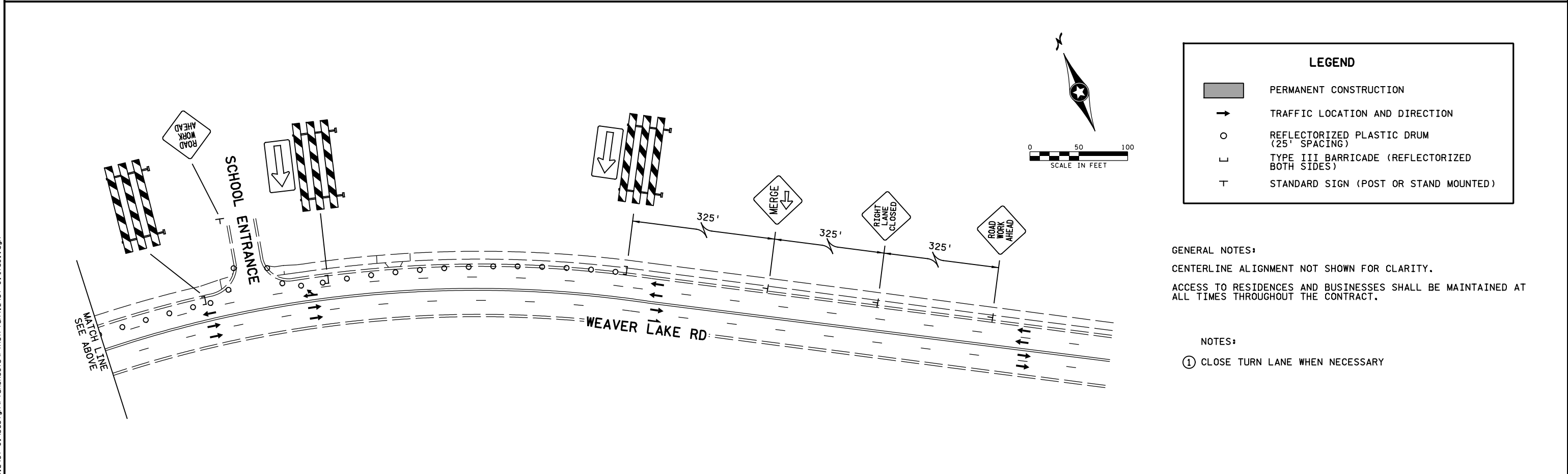
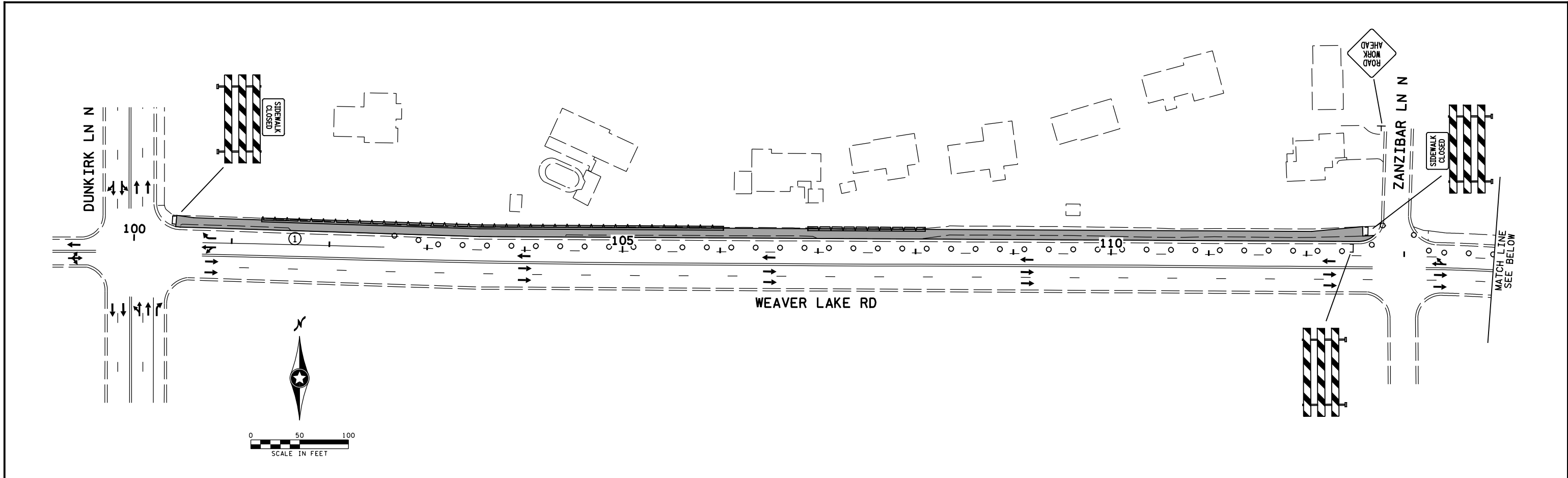
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STATE DESIGN ENGINEER

APPROVED: 2-28-2017
REVISED:

STATE PROJ. NO.

TEMPORARY SEDIMENT CONTROL
CULVERT END CONTROLS

SHEET NO. 10 OF 32 SHEETS



LEGEND

- PERMANENT CONSTRUCTION
- TRAFFIC LOCATION AND DIRECTION
- REFLECTORIZED PLASTIC DRUM (25' SPACING)
- TYPE III BARRICADE (REFLECTORIZED BOTH SIDES)
- STANDARD SIGN (POST OR STAND MOUNTED)

GENERAL NOTES:
 CENTERLINE ALIGNMENT NOT SHOWN FOR CLARITY.
 ACCESS TO RESIDENCES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE CONTRACT.

NOTES:
 ① CLOSE TURN LANE WHEN NECESSARY

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NO	DATE	BY	CKD	APPR	REVISION

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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: TYLER A. SMITH

Tyler Smith

Date: 5/5/2022 License # 56135

CITY PROJECT NO. 19-09

DRAWN BY S. MARTINS
 DESIGNED BY T. SMITH
 CHECKED BY S. PRUSAK
 COMM. NO. 0012457

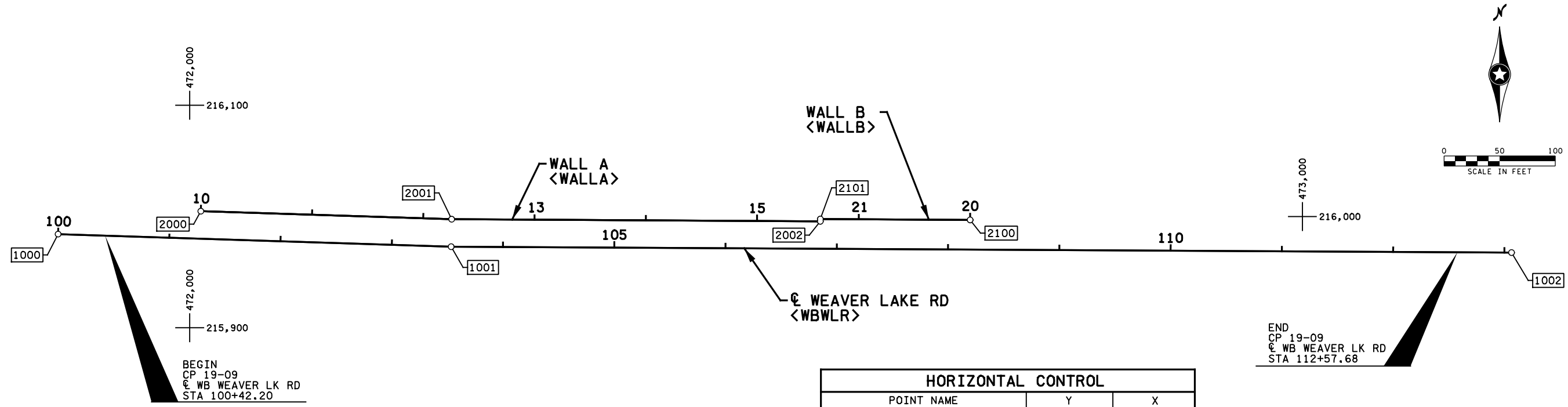


CITY OF MAPLE GROVE

TRAFFIC CONTROL PLANS

WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

SHEET
 11
 OF
 32



HORIZONTAL CONTROL
 THE HORIZONTAL CONTROL SHOWN ON THIS PLAN IS IN NAD 83 DATUM (1986 ADJUSTMENT) HENNEPIN COUNTY COORDINATES

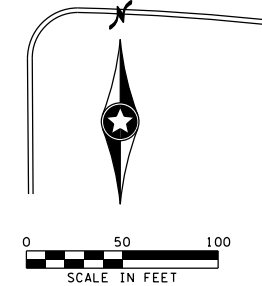
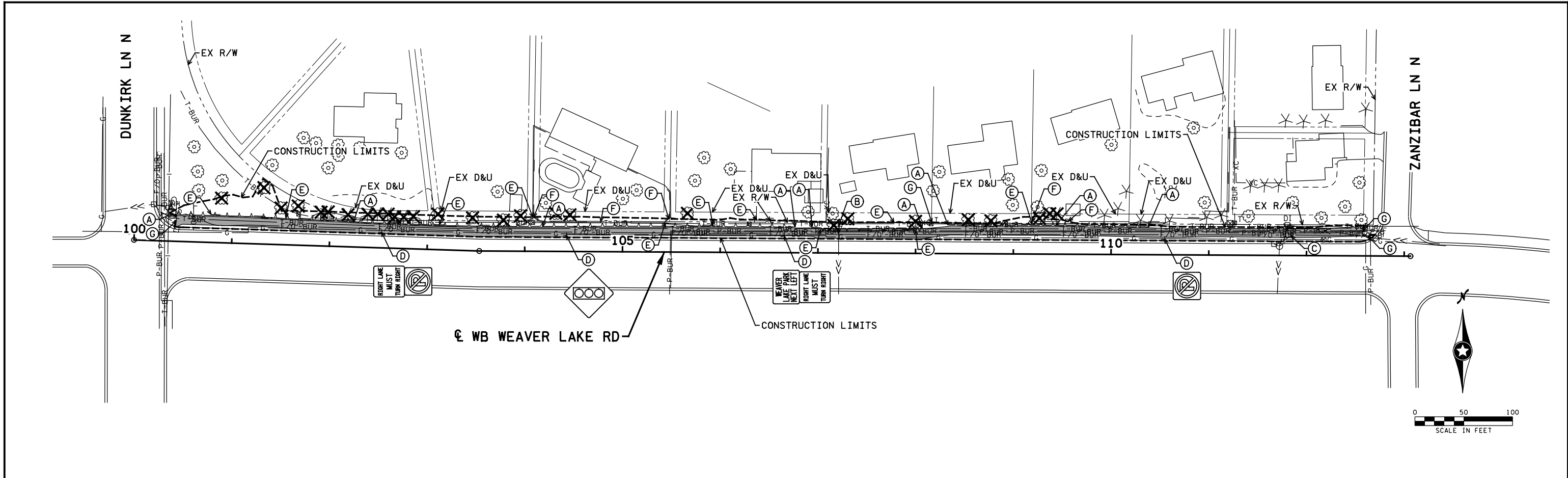
HORIZONTAL CONTROL		
POINT NAME	Y	X
N 1/4 COR SEC 20, T 119, R 22	215,972.543	471,867.347
NE COR SEC 20, T 119, R 22	215,960.021	474,491.339

NOTES:
 <XXXX> INDICATES GEOPAK ALIGNMENT NAME

ALIGNMENT TABULATION											
POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA					COORDINATES		AZIMUTH	
			DELTA	DEGREE	RADIUS	TANGENT	LENGTH	X	Y		
			SPIRAL CURVE DATA								
					ANGLE (θs)	DEGREE	ST	LT	LS		
WB WEAVER LAKE RD <WBWLR>											
1000	POT	WB WEAVER LAKE RD 100+00.000						471,881.7583	215,984.1909	91° 50' 00.56"	
1001	POT	103+53.387						472,234.9647	215,972.8843	90° 19' 01.58"	
1002	POT	WB WEAVER LAKE RD 113+06.396						473,187.9590	215,967.6099		
WALL A <WALLA>											
2000	POT	WB WALL A 10+00.000						472,010.0317	216,004.7673	91° 50' 00.56"	
2001	POT	12+25.511						472,235.4277	215,997.5521	90° 19' 01.58"	
2002	POT	WB WALL A 15+56.875						472,566.7866	215,995.7182		
WALL B <WALLB>											
2100	POT	WB WALL B 20+00.000						472,701.3891	215,996.9732	270° 19' 01.58"	
2101	POT	WB WALL B 21+34.593						472,566.7977	215,997.7181		

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NO	DATE	BY	CKD	APPR	REVISION																



GENERAL NOTES:

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

SOME UTILITIES MAY BE RELOCATED PRIOR TO CONSTRUCTION.

THE RIGHT-OF-WAY SHOWN IN THIS PLAN GIVES A GRAPHICAL LOCATION WITH RESPECT TO THE GEOMETRIC DESIGN AND MAP DATA. THE EXACT RIGHT OF WAY AND BOUNDARY CORNERS ARE LOCATED BY REFERENCE TO THE RIGHT OF WAY PLATS AND ARE IDENTIFIED ON THE RIGHT OF WAY MAP.

ALL TREES TO BE CLEARED AND GRUBBED WILL BE MARKED BY THE FIELD ENGINEER.

PROTECT ALL TREES THAT ARE NOT MARKED FOR REMOVAL (INCIDENTAL). SEE SHEET 6 FOR MORE INFORMATION.

SHRUB REMOVAL SHALL BE INCIDENTAL.

SEE UTILITY TABULATIONS FOR PRIVATE UTILITY ITEMS.

IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY AND PROTECT EXISTING IRRIGATION SYSTEMS. ANY DISRUPTION OR MODIFICATION TO THESE SYSTEMS IS CONSIDERED INCIDENTAL. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING IRRIGATION SYSTEMS TO WORKING CONDITION DEEMED ACCEPTABLE TO THE ENGINEER AND PROPERTY OWNER.

LEGEND

	CLEARING AND GRUBBING		TELEPHONE PEDESTAL
	REMOVE BITUMINOUS PAVEMENT		CATCH BASIN
	BURIED TELECOMMUNICATIONS		DROP INLET
	BURIED FIBER OPTIC		APRON
	BURIED ELECTRIC		UTILITY VALVE
	GAS		HYDRANT
	WATER MAIN		MANHOLE
	STORM SEWER		SIGNAL POLE WITH MAST ARM
	BURIED SIGNAL		HANDHOLE
			GAS VALVE

NOTES:

- (A) REMOVE RETAINING WALL
- (B) SALVAGE CONCRETE APRON
- (C) ADJUST FRAME & RING CASTING
- (D) SALVAGE SIGN PANEL TYPE C
- (E) REMOVE FENCE. TEMPORARY FENCE TO BE COORDINATED WITH PROPERTY OWNER.
- (F) SALVAGE FENCE (PRIVACY FENCES) TEMPORARY FENCE TO BE COORDINATED WITH PROPERTY OWNER.
- (G) SAWING BITUMINOUS PAVEMENT (FULL DEPTH)

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NO	DATE	BY	CKD	APPR	REVISION

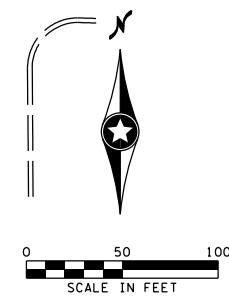
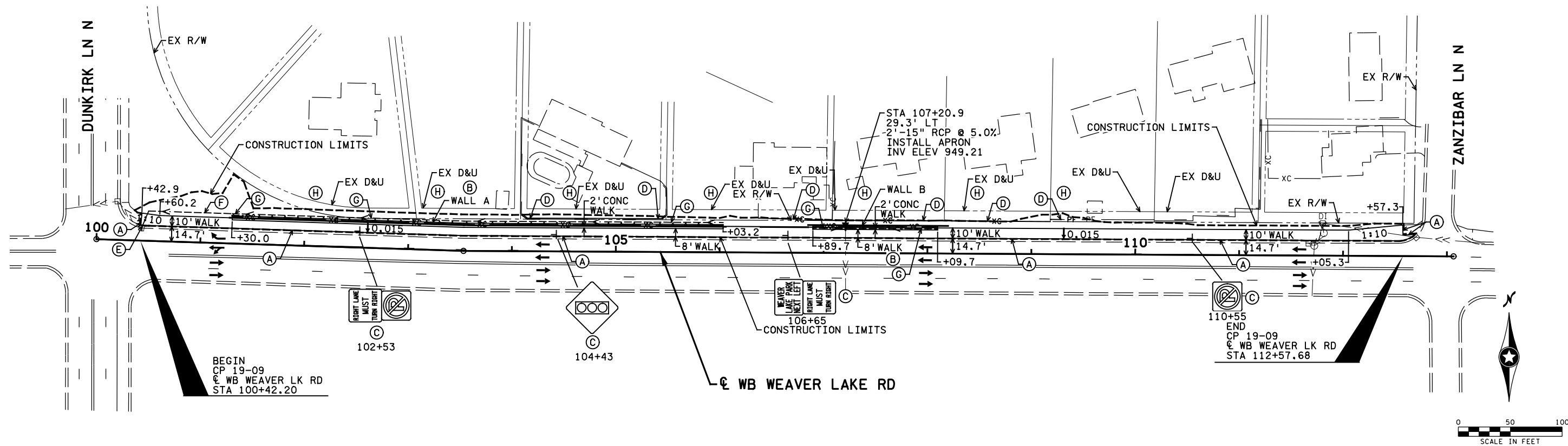
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: TYLER A. SMITH
Taylor Smith
 Date: 5/5/2022 License #: 56135

CITY PROJECT NO. 19-09
 DRAWN BY S. MARTINS
 DESIGNED BY T. SMITH
 CHECKED BY S. PRUSAK
 COMM. NO. 0012457



CITY OF MAPLE GROVE
 INPLACE TOPOGRAPHY, UTILITIES, RIGHT OF WAY AND REMOVAL PLAN
WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

SHEET 13 OF 32



NOTES:

- (A) MATCH EXISTING
- (B) SEE RETAINING WALL PLANS
- (C) INSTALL SIGN PANEL TYPE C. SLEEVES FOR SIGN BASES TO BE PROVIDED BY THE CITY
- (D) INSTALL FENCE (INCLUDES ALL FENCE TYPES)
- (E) CONNECT 6" TP PIPE DRAIN TO EXISTING DRAINAGE STRUCTURE (INCIDENTAL)
- (F) 6" TP PIPE (INCIDENTAL)
- (G) 6" TP PERFORATED PIPE (INCIDENTAL)
- (H) REPLACEMENT TREES AND SHRUBS TO BE PROVIDED BY THE CITY OF MAPLE GROVE. LOCATION OF REPLACEMENT TREES AND SHRUBS TO BE COORDINATED WITH PROPERTY OWNER AND APPROVED BY FIELD ENGINEER.

GENERAL NOTES:

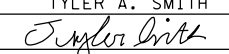

THE RIGHT-OF-WAY SHOWN IN THIS PLAN GIVES A GRAPHICAL LOCATION WITH RESPECT TO THE GEOMETRIC DESIGN AND MAP DATA. THE EXACT RIGHT OF WAY AND BOUNDARY CORNERS ARE LOCATED BY REFERENCE TO THE RIGHT OF WAY PLATS AND ARE IDENTIFIED ON THE RIGHT OF WAY MAP.

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

SEE RETAINING WALL PLANS AND PROFILES FOR RETAINING WALL INFORMATION.

LEGEND	
---	INPLACE PAVEMENT
---	PROPOSED CONSTRUCTION
---	PROPOSED RETAINING WALL
→	DIRECTION OF TRAFFIC
---	6" TP PIPE DRAIN
-xc-	CHAIN LINK FENCE
---	WOOD FENCE
-pf-	PVC FENCE

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NO	DATE	BY	CKD	APPR	REVISION																						

STORM WATER POLLUTION PREVENTION NARRATIVE (SHEET 1 OF 2)

PROJECT CONTACTS

THE OWNER AND CONTRACTOR ARE RESPONSIBLE FOR THE IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION.

ORGANIZATION	CONTACT NAME	PHONE
CITY OF MAPLE GROVE	JUPE HALE	763-494-6350
SRF CONSULTING GROUP	JEREMY NIELSEN	763-475-0010

MPCA DUTY OFFICER 24 HOUR EMERGENCY NOTIFICATION: 651-649-5451
800-422-0798

GENERAL NOTES FOR CONSTRUCTION ACTIVITY

1. THE CONTRACTOR SHALL PREPARE A WRITTEN, NOT ORAL, WEEKLY SCHEDULE OF PROPOSED EROSION CONTROL ACTIVITIES FOR THE PROJECT ENGINEER'S APPROVAL AS PER MNDOT SPEC. 1717.2.

BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.

THE CONTRACTOR SHALL PLACE STABILIZED CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES. STABILIZED CONSTRUCTION EXITS SHALL BE SUFFICIENTLY SIZED AND MAINTAINED TO PREVENT TRACK OUT. STABILIZED CONSTRUCTION EXITS SHALL BE INCIDENTAL.

ALL TOPSOIL IN DISTURBED AREAS SHALL BE REMOVED AND STOCKPILED FOR LATER PLACEMENT. AVOID COMPACTION AS MUCH AS IS FEASIBLE IN ALL AREAS WHERE COMPACTION IS NOT REQUIRED FOR CONSTRUCTION.

DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION PRIOR TO PROCEEDING. PRESERVE ALL BUFFERS (IF ANY) SHOWN ON THE PLANS.

DIRECT DISCHARGES FROM BMPs TO VEGETATED AREAS AND ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER POSSIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION AND NUISANCE CONDITIONS.

PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.

BASIN DRAINING ACTIVITIES OF TURBID OR SEDIMENT LADEN WATER SHALL BE DISCHARGED TO TEMPORARY SEDIMENT BASINS WHENEVER POSSIBLE. IN THE EVENT THAT IT IS NOT POSSIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN THE WATER SHALL BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS.

IT IS NOT ANTICIPATED THAT POLYMERS, FLOCCULANTS OR OTHER SEDIMENTATION TREATMENT CHEMICALS SHALL BE USED. HOWEVER, IF THE USE OF SUCH CHEMICALS BECOMES NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS, IT SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS OF THE NPDES PERMIT.

POLLUTION PREVENTION NOTES

1. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS REGARDING POLLUTION PREVENTION MANAGEMENT DURING CONSTRUCTION, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING THE FOLLOWING (ITEMS LISTED ARE INCIDENTAL):

- A. WASHOUT AREAS FOR CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS FOR USE BY ALL SUBCONTRACTORS AND MATERIAL TESTING PERSONNEL. LOCATION OF WASHOUT AREAS SHALL BE IDENTIFIED BY SIGNAGE AND SHALL BE AT LEAST 200 FT FROM SITE MANAGEMENT PLAN REQUIREMENT AREAS (IF APPLICABLE) OR ENVIRONMENTALLY SENSITIVE AREAS, AND UTILIZE A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER THAT PREVENTS RUNOFF ONTO ADJACENT SOILS. AN ENGINEERED COLLECTION SYSTEM CAN ALSO BE USED IF IT IS APPROVED BY THE PROJECT ENGINEER.
- B. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER FOR A CHEMICAL STORAGE AREA AND SHALL DESIGNATE AN AREA FOR FUELING AND MINOR MAINTENANCE OF CONSTRUCTION VEHICLES (INCLUDING WASHING) WITH MEANS TO CAPTURE ANY FUEL SPILLS. RUNOFF SHALL BE CONTAINED IN A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL AND ALL WASTE GENERATED SHALL BE PROPERLY DISPOSED OF. NO ENGINE DEGREASING IS ALLOWED ON SITE.
- C. SOLID WASTE COLLECTION AND REMOVAL
- D. SECONDARY CONTAINMENT FOR STORAGE OF HAZARDOUS MATERIALS
- E. SECURED HAZARDOUS WASTE STORAGE CONTAINERS
- F. CHEMICAL SPILL KITS (SHALL BE PROVIDED AT EACH LOCATION WHERE CHEMICALS ARE USED OR STORED AND ANY LOCATION WHERE VEHICLES ARE FUELED OR MAINTAINED).
- G. PORTABLE RESTROOM FACILITIES THAT ARE ANCHORED TO PREVENT TIPPING

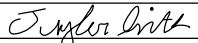
- 2. CHEMICALS SHALL BE KEPT IN A SECURE STORAGE AREA WITH RESTRICTED ACCESS IN SEALED CONTAINERS WHEN NOT IN USE. RETURN ALL CHEMICALS TO THE DESIGNATED STORAGE AREA BY THE END OF THE DAY UNLESS INFEASIBLE. CHEMICAL STORAGE CONTAINERS SHALL HAVE SECONDARY CONTAINMENT WHEN BEING USED OR STORED ON THE PROJECT SITE, AND PRODUCTS OR CHEMICALS THAT MAY LEACH POLLUTANTS SHALL BE UNDER COVER (PLASTIC SHEETING OR TEMPORARY ROOF). CHEMICAL SPILLS OF ANY KIND (OIL, FUEL, FERTILIZER, ETC.) SHALL BE CLEANED UP AND REMOVED FROM THE SITE IMMEDIATELY. THE CONTRACTOR SHALL HAVE A SPILL KIT ON SITE AT ALL TIMES.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AND FOLLOWING A WRITTEN DISPOSAL PLAN FOR ALL HAZARDOUS WASTE MATERIALS. THE PLAN SHALL INCLUDE HOW THE MATERIAL SHALL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO WORK ON SITE. LEAKS, SPILLS, OR OTHER RELEASES SHALL BE RESPONDED TO IN ACCORDANCE WITH MPCA SPILL CONTAINMENT AND REMEDIAL ACTION PROCEDURES.
- 4. THE CONTRACTOR SHALL USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS, AND ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
- 5. THE CONTRACTOR SHALL USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, SAW CUT SLURRY, PLANING WASTE AND OTHER CONCRETE WASTES FROM LEAVING PUBLIC RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS OR ENTERING STORMWATER CONVEYANCE SYSTEM INCLUDING INLETS AND CURB FLOW LINES. ONSITE RELEASE OF CONCRETE SLURRY IS PERMISSIBLE IF MINNESOTA POLLUTION CONTROL GUIDANCE FOR ROAD CONSTRUCTION CONCRETE SLURRY AND THE REQUIREMENTS OF THE SPECIAL PROVISIONS ARE FOLLOWED.

EROSION CONTROL SUPERVISOR, INSPECTIONS AND MAINTENANCE NOTES


- 1. THE EROSION CONTROL SUPERVISOR SHALL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION.
- 2. INSPECTIONS OF THE ENTIRE CONSTRUCTION SITE SHALL OCCUR A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS (IN NO CASE SHALL THE TIME BETWEEN INSPECTIONS EXCEED 7 DAYS. RAINFALL AMOUNTS SHALL BE OBTAINED USING A PROPERLY MAINTAINED RAIN GAUGE ONSITE OR BY A WEATHER STATION THAT IS WITHIN ONE MILE. THE EROSION CONTROL SUPERVISOR SHALL THOROUGHLY INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs TO ENSURE INTEGRITY AND EFFECTIVENESS OF EACH BMP.
- 3. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION SHALL BE RECORDED IN WRITING WITHIN 24 HOURS AND THESE RECORDS SHALL BE RETAINED WITH THE SWPPP. INSPECTION REPORTS SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND SWPPP DESIGNER IN A FORMAT APPROVED BY THE ENGINEER. INSPECTION RECORDS SHALL INCLUDE:
 - A. DATE AND TIME OF INSPECTIONS;
 - B. NAME OF PERSONS CONDUCTING INSPECTIONS;
 - C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
 - D. CORRECTIVE ACTIONS TAKEN INCLUDING DATES, TIMES, AND THE PARTY COMPLETING MAINTENANCE ACTIVITIES;
 - E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS;
 - F. LOCATION, DESCRIPTION AND PHOTO OF ANY DISCHARGES OFF THE PROJECT SITE.
 - G. DOCUMENTS AND CHANGES MADE TO THE SWPPP.
- 4. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS (INSPECTIONS MAY BE REDUCED UNDER CERTAIN CONDITIONS AS COVER IS ESTABLISHED AND CONDITIONS CHANGE):
 - A. SILT FENCE SHALL BE REPAIRED, REPLACED OR SUPPLEMENTED WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE SILT FENCE.
 - B. INLET PROTECTION DEVICES SHOULD BE REPAIRED WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
 - C. TEMPORARY SEDIMENT BASINS, IF REQUIRED, SHALL HAVE THE SEDIMENT REMOVED ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME.
 - D. REMOVE ANY SEDIMENT DEPOSITED IN SURFACE WATERS. SEDIMENT SHALL BE REMOVED AND ANY AREA DISTURBED BY THE REMOVAL RESTABILIZED WITHIN 7 DAYS OF DISCOVERY. A SITE MANAGEMENT PLAN IS REQUIRED FOR WORK IN ANY SURFACE WATER AND APPROPRIATE AUTHORITIES SHALL BE CONTACTED PRIOR TO COMMENCING WORK.
 - E. TRACKED SEDIMENT SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OF TRACKING ONTO PAVED SURFACES.
 - F. ALL NONFUNCTIONAL BMPs SHALL BE REPAIRED, REPLACED, OR SUPPLEMENTED BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY (UNLESS NOTED OTHERWISE ABOVE).
 - G. REINSTALL AS QUICKLY AS POSSIBLE ANY BMP REMOVED TO ACCOMMODATE SHORT TERM ACTIVITIES.
 - H. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL BMPs UNTIL WORK HAS BEEN COMPLETED, AND SITE HAS GONE UNDER FINAL STABILIZATION. SEDIMENT REMOVAL AND MAINTENANCE OF BMPs IS INCIDENTAL.
- 5. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS A TEMPORARY SEDIMENT BASIN OR SEDIMENT TRAP TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.

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NO	DATE	BY	CKD	APPR	REVISION

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: TYLER A. SMITH

 Date: 5/5/2022 License #: 56135

CITY PROJECT NO. 19-09	DRAWN BY S. MARTINS
	DESIGNED BY T. SMITH
	CHECKED BY J. NIELSEN
	COMM. NO. 0012457

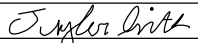

	CITY OF MAPLE GROVE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WEAVER LAKE RD RETAINING WALL RECONSTRUCTION
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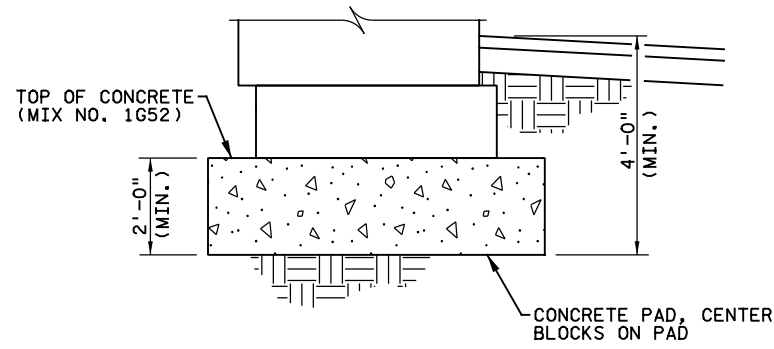
STORM WATER POLLUTION PREVENTION NARRATIVE (SHEET 2 OF 2)

STABILIZATION AND SEDIMENT CONTROL NOTES

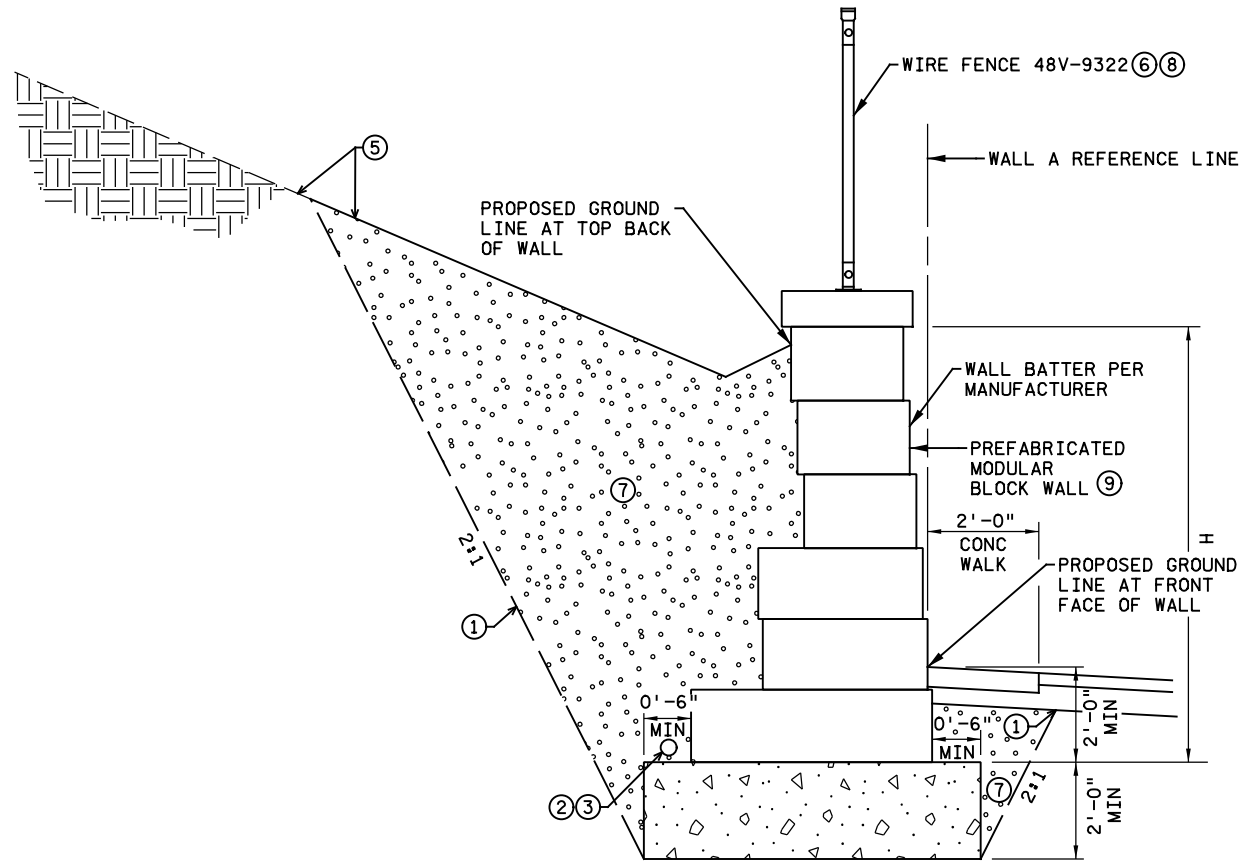
1. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL THE POTENTIAL FOR EROSION HAS BEEN ELIMINATED. IF SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE), ADDITIONAL UPGRADIENT OR REDUNDANT BMPs SHALL BE PLACED.
2. SEDIMENT CONTROL DEVICES SHALL BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. SEDIMENT CONTROL DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - A. PERIMETER CONTROL SHALL BE LOCATED ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. THE BMP SHALL BE J-HOOKED AT A MAXIMUM OF 100 FOOT INTERVALS AND EACH SECTION SHALL CONTAIN NO MORE THAN 1/4 ACRE OF DRAINAGE AREA.
 - B. SEDIMENT DAMAGE FROM STOCKPILES SHALL BE MINIMIZED BY PLACING A ROW OF SUPER DUTY SILT FENCE A MINIMUM 5 FEET FROM THE TOE. IF THERE IS NOT ADEQUATE PROJECT AREA TO PLACE THE SILT FENCE MORE THAN 5 FEET FROM THE TOE OF THE SLOPE, THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE TO THE PROJECT ENGINEER FOR APPROVAL.
 - C. DITCH CHECKS (IF REQUIRED) SHALL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.
 1. TEMPORARY DITCH CHECKS (IF REQUIRED) SHALL CONSIST OF USING ROCK DITCH CHECKS, SEDIMENT CONTROL LOGS AND ROCK WEEPERS IN FRONT OF CULVERT INLETS. IN LIEU OF REMOVING TEMPORARY DITCH CHECKS, THE ROCK MAY BE PUSHED INTO THE GROUND.
 2. FILTER LOGS (IF REQUIRED) SHALL BE PLACED DURING PERMANENT TURF ESTABLISHMENT AT THE INTERVALS IDENTIFIED IN THE PLAN.
3. STORM SEWER INLETS SHALL BE PROTECTED AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS (THIS BMP SHALL BE ACCEPTED ONLY FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS). INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES SHALL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE KEPT IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES IT SHALL BE REPLACED WITH A SUITABLE ALTERNATIVE AT NO COST TO THE OWNER.
4. PAVEMENT SURFACES SHALL BE SWEEPED WITHIN 24 HOURS OF DISCOVERY OF SEDIMENT OR TRACKING ONTO PAVEMENT THAT DRAINS TO CURB, INLETS, DITCHES OR PONDS. PAVEMENT SHALL BE LIGHTLY WETTED PRIOR TO SWEEPING. THIS WORK IS INCIDENTAL.
5. OUTLETS INTO SURFACE WATERS SHALL BE STABILIZED WITH ENERGY DISSIPATION WITHIN 24 HOURS OF BEING CONSTRUCTED.
6. DITCHES AND EXPOSED SOILS SHALL BE KEPT IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES AND BLANKETS.
7. INITIATE STABILIZATION OF ALL EXPOSED SOIL AND STOCKPILE AREAS IMMEDIATELY AFTER CONSTRUCTION ACTIVITY ON THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN NO MORE THAN 14 DAYS.
8. ALL EXPOSED SOIL AREAS SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED SHALL BE SNOW MULCHED, SEEDED, OR BLANKETED.
9. ALL TOPSOIL BERMS SHALL BE STABILIZED AS FOLLOWS:
 - A. BETWEEN APRIL 1 - AUGUST 31, SEED WITH SEED MIXTURE 21-111
 - B. BETWEEN SEPTEMBER 1 AND MARCH 31, SEED WITH SEED MIXTURE 21-112 AND TOP WITH RAPID STABILIZATION 2.
10. TILLING FOR BEDS OR TREE HOLES SHALL BE PLANTED AND MULCHED WITH WOODCHIP WITHIN 7 DAYS OR STRAW MULCHED UNTIL PLANTING OPERATIONS CAN BE COMPLETED. FILTER LOGS SHALL BE PLACED, AS NEEDED, TO TRAP SEDIMENT ON THE LOWER EDGE OF BEDS OR TREE HOLES. FILTER LOGS SHALL BE LEFT TO PHOTO DEGRADE.

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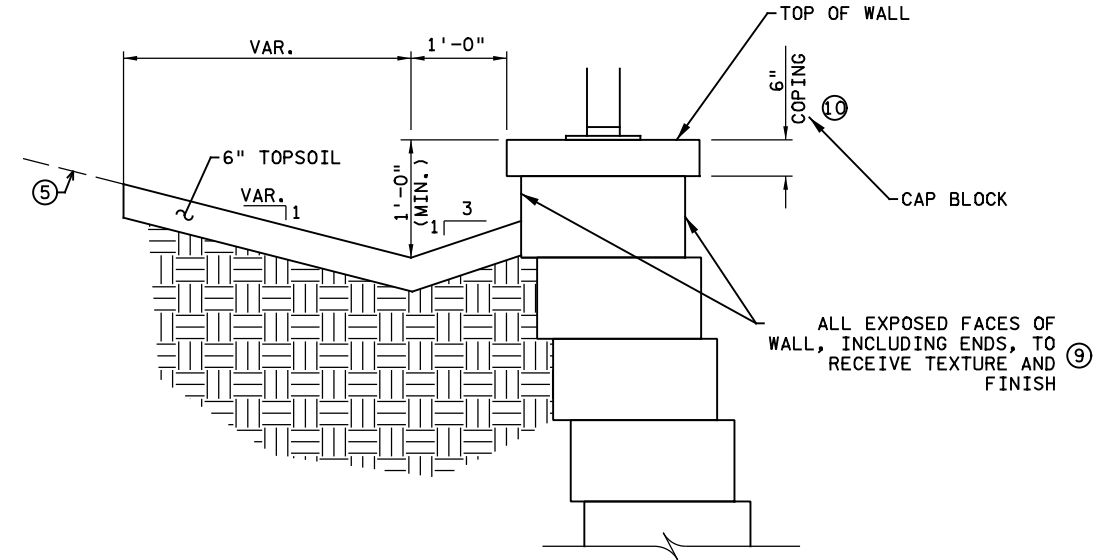
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NO	DATE	BY	CKD	APPR	REVISION																							



CONCRETE LEVELING PAD ④
(NOT TO SCALE)



SECTION (WALL A)



TOP OF WALL DETAIL

- NOTES:
- ① SEE CROSS SECTIONS FOR EXCAVATION FOR MODULAR BLOCK RETAINING WALLS. ACTUAL SLOPE IS DETERMINED BY OSHA REGULATIONS AND IN-SITU SOILS; EXCAVATION BEYOND THESE LIMITS IS AT CONTRACTORS EXPENSE.
 - ② DO NOT DAYLIGHT DRAIN PIPE THROUGH WALL.
 - ③ 6" THERMOPLASTIC PERFORATED PIPE, SPEC. 3245. WRAP WITH TYPE 1 GEOTEXTILE, SPEC. 3733. INSTALLATION AS PER SPEC. 2502. PIPE SHALL RUN THE LENGTH OF THE WALL. CONNECT TO STORM SEWER AT DUNKIRK LN N. INCIDENTAL.
 - ④ CONCRETE PAD (MIX NO. 1G52) INCIDENTAL.
 - ⑤ SEE CROSS SECTIONS FOR EXISTING AND PROPOSED SLOPE.
 - ⑥ WIRE FENCE TO BE CONTINUOUS ENTIRE LENGTH OF WALL. INSTALLATION PER MNDOT STANDARD PLATE 9322 AND SPEC. 2557.
 - ⑦ COARSE FILTER AGGREGATE SPEC. 3149.2H. TO BE INCLUDED IN PAY ITEM FOR MODULAR BLOCK RETAINING WALL.
 - ⑧ PAYMENT INCLUDES ALL COSTS FOR FURNISHING WIRE FENCE AND ALL COMPONENTS SPECIFIED AND SHOWN ON THESE PLANS.
 - ⑨ PAYMENT INCLUDES ALL COSTS FOR DESIGN, FURNISHING, AND CONSTRUCTING PMBW INCLUDING ALL EXCAVATION AND BACKFILL, CONCRETE LEVELING PAD, DRAINAGE SYSTEM, AND OTHER SERVICES NECESSARY FOR CONSTRUCTION OF THE WALL.
 - ⑩ PERMANENTLY SECURE CAP TO TOP BLOCK WITH APPROVED CONSTRUCTION ADHESIVE.

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NO	DATE	BY	CKD	APPR	REVISION

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Print Name: TYLER A. SMITH

Tyler Smith

Date: 5/5/2022 License #: 56135

CITY PROJECT NO. 19-09

DRAWN BY S. MARTINS
DESIGNED BY J. THIESSE
CHECKED BY S. PRUSAK
COMM. NO. 0012457



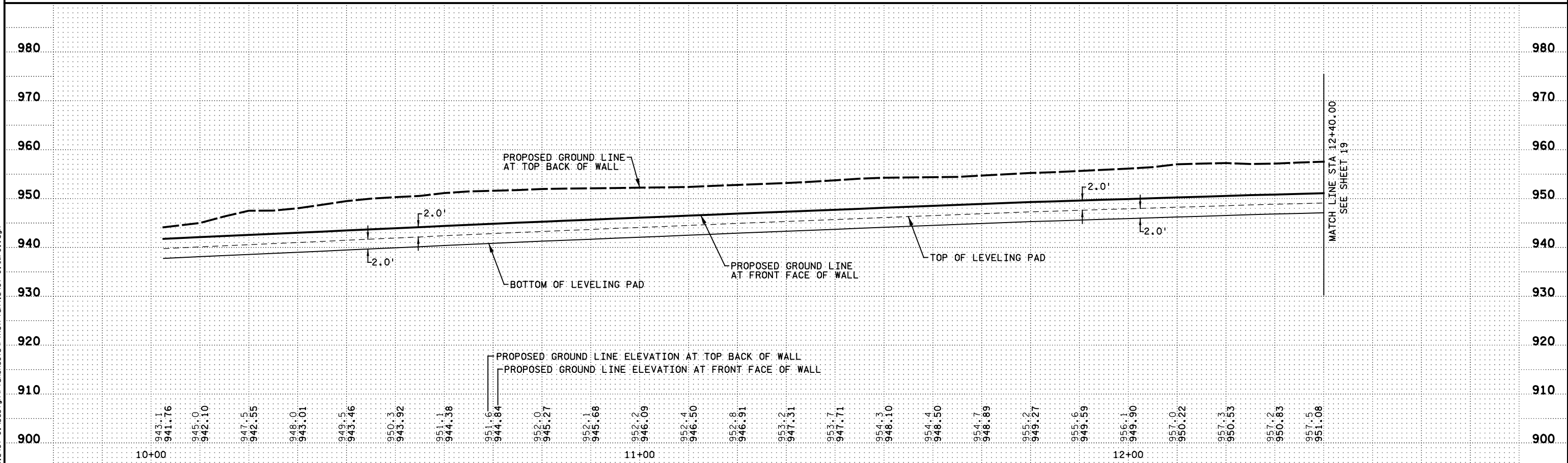
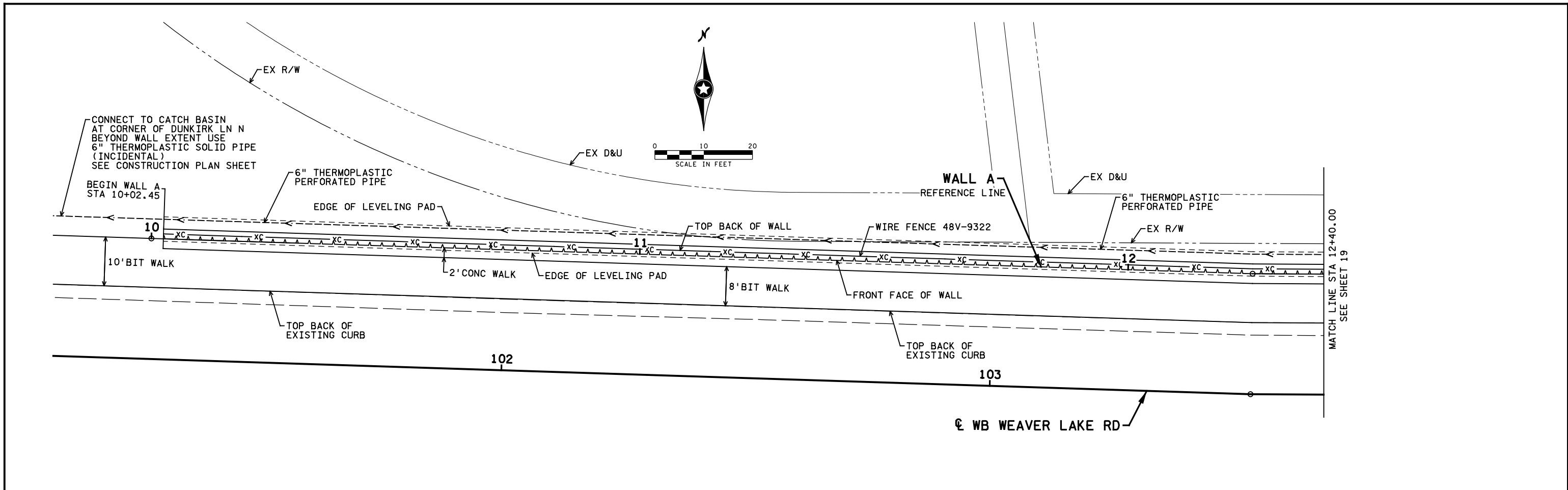
CITY OF MAPLE GROVE

RETAINING WALL (MOD BLOCK) MISCELLANEOUS DETAILS

WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

WALL A

SHEET 17 OF 32



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Print Name: TYLER A. SMITH

Tyler Smith

Date: 5/5/2022 License #: 56135

CITY PROJECT NO. 19-09

DRAWN BY: S. MARTINS

DESIGNED BY: J. THIESSE

CHECKED BY: S. PRUSAK

COMM. NO. 0012457



CITY OF MAPLE GROVE

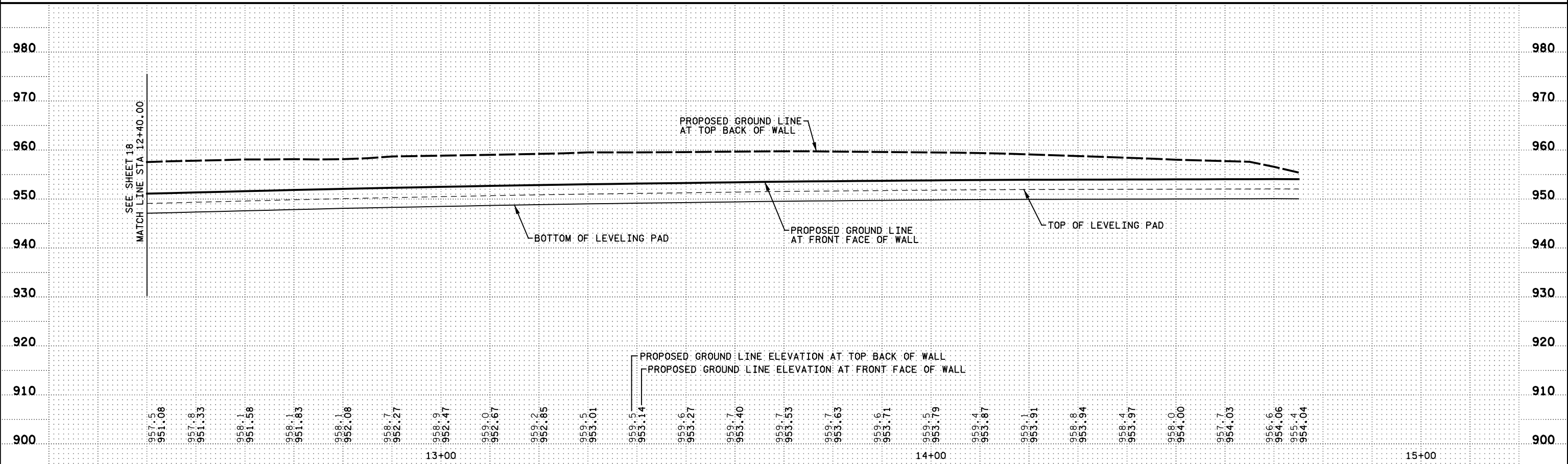
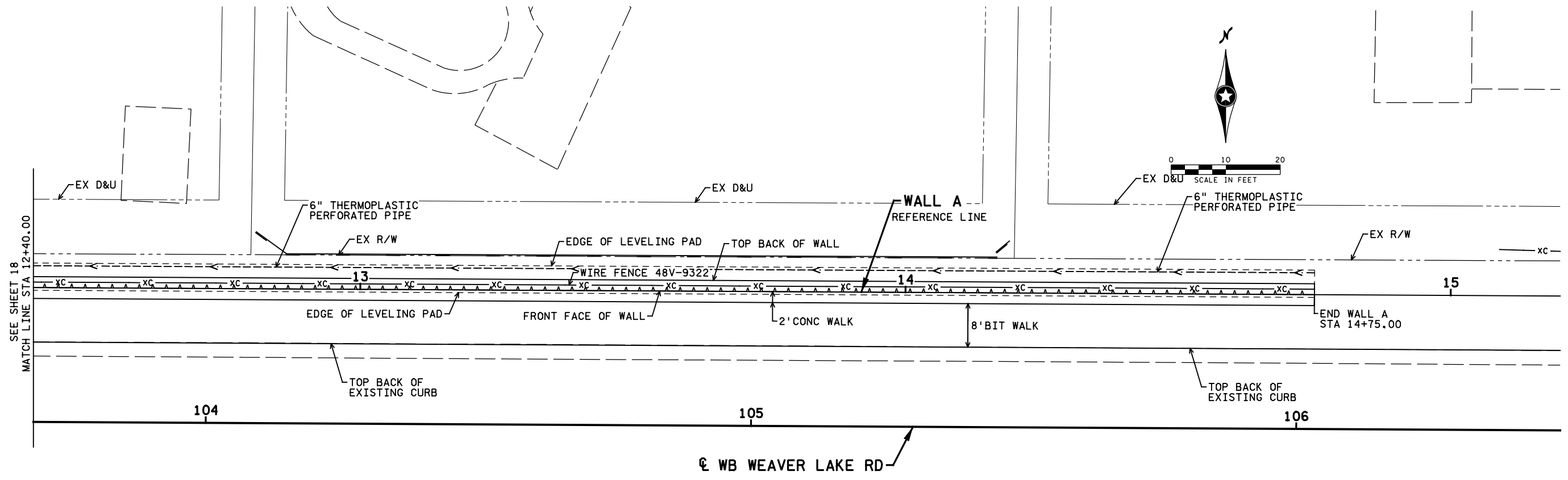
RETAINING WALL PLAN AND PROFILE

WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

WALL A (MODULAR BLOCK)

SHEET 18 OF 32

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Tyler Smith

Date: 5/5/2022 License #: 56135

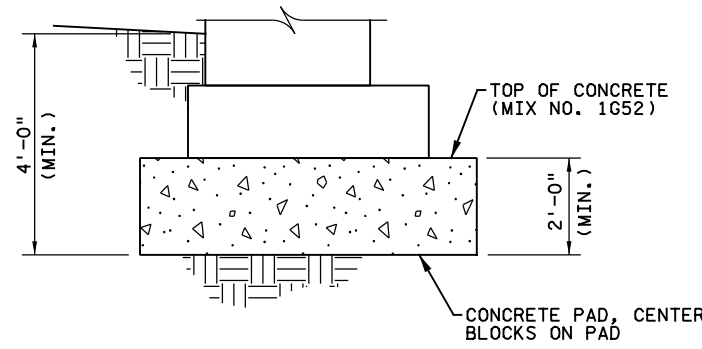
CITY PROJECT NO. 19-09

DRAWN BY S. MARTINS
 DESIGNED BY J. THIESSE
 CHECKED BY S. PRUSAK
 COMM. NO. 0012457

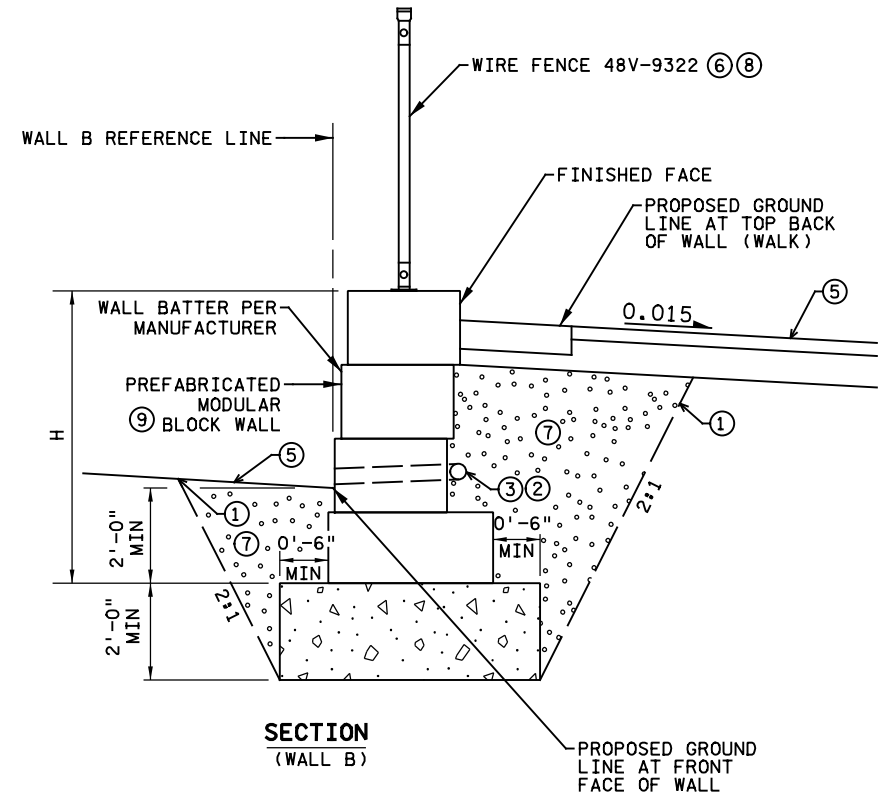


CITY OF MAPLE GROVE
 RETAINING WALL PLAN AND PROFILE
WEAVER LAKE RD RETAINING WALL RECONSTRUCTION
 WALL A (MODULAR BLOCK)

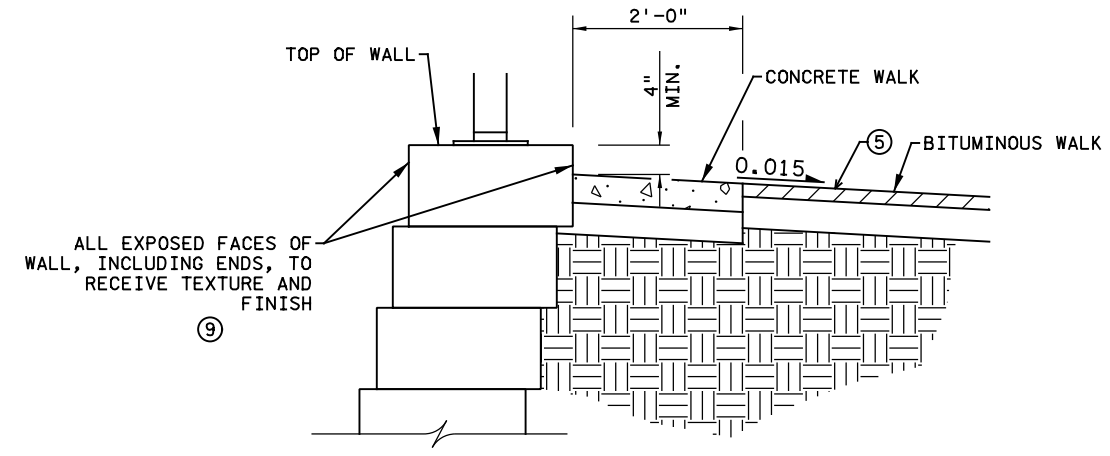
SHEET 19 OF 32



CONCRETE LEVELING PAD ④
(NOT TO SCALE)



SECTION (WALL B)



TOP OF WALL DETAIL

- NOTES:
- ① SEE CROSS SECTIONS FOR EXCAVATION FOR MODULAR BLOCK RETAINING WALLS. ACTUAL SLOPE IS DETERMINED BY OSHA REGULATIONS AND IN-SITU SOILS; EXCAVATION BEYOND THESE LIMITS IS AT CONTRACTORS EXPENSE.
 - ② DAYLIGHT DRAIN PIPE THROUGH WALL WITH CONCRETE SPLASH BLOCK AND RODENT SCREEN. INCIDENTAL.
 - ③ 6" THERMOPLASTIC PERFORATED PIPE, SPEC. 3245. WRAP WITH TYPE 1 GEOTEXTILE, SPEC. 3733. INSTALLATION AS PER SPEC. 2502. PIPE SHALL RUN THE LENGTH OF THE WALL. INCIDENTAL.
 - ④ CONCRETE PAD (MIX NO. 1652) INCIDENTAL.
 - ⑤ SEE CROSS SECTIONS FOR EXISTING AND PROPOSED SLOPE.
 - ⑥ WIRE FENCE TO BE CONTINUOUS ENTIRE LENGTH OF WALL. INSTALLATION PER MNDOT STANDARD PLATE 9322 AND SPEC. 2557.
 - ⑦ COARSE FILTER AGGREGATE SPEC. 3149.2H. TO BE INCLUDED IN PAY ITEM FOR MODULAR BLOCK RETAINING WALL.
 - ⑧ PAYMENT INCLUDES ALL COSTS FOR FURNISHING WIRE FENCE AND ALL COMPONENTS SPECIFIED AND SHOWN ON THESE PLANS.
 - ⑨ PAYMENT INCLUDES ALL COSTS FOR DESIGN, FURNISHING, AND CONSTRUCTING PMBW INCLUDING ALL EXCAVATION AND BACKFILL, CONCRETE LEVELING PAD, DRAINAGE SYSTEM, AND OTHER SERVICES NECESSARY FOR CONSTRUCTION OF THE WALL.

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NO	DATE	BY	CKD	APPR	REVISION

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Print Name: TYLER A. SMITH

Tyler Smith

Date 5/5/2022 License # 56135

CITY PROJECT NO. 19-09

DRAWN BY S. MARTINS

DESIGNED BY J. THIESSE

CHECKED BY S. PRUSAK

COMM. NO. 0012457

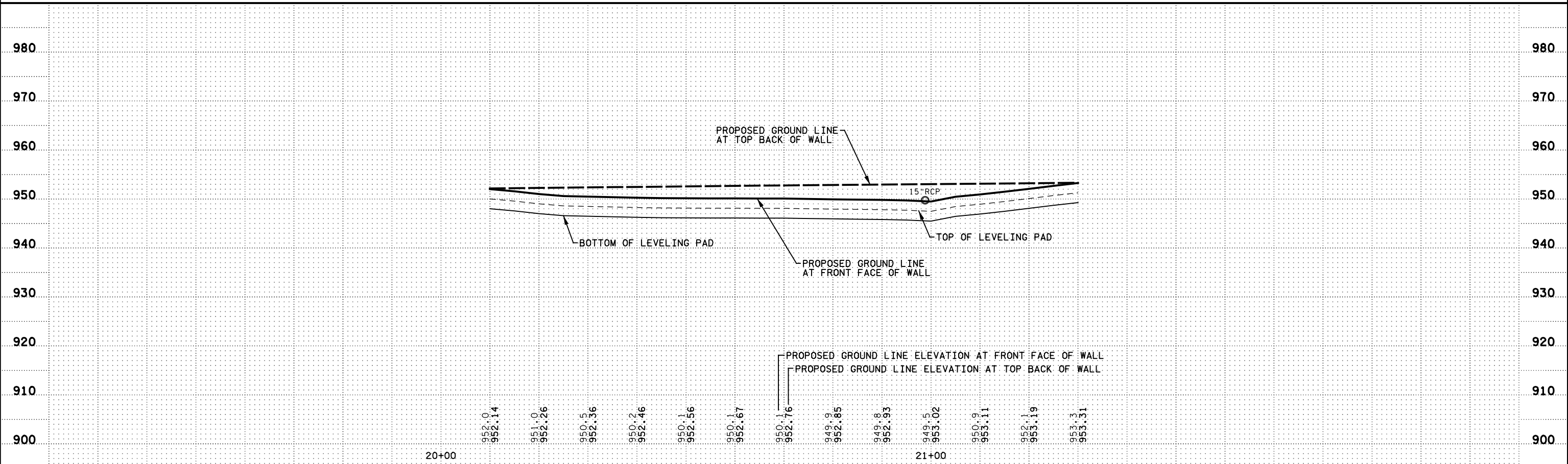
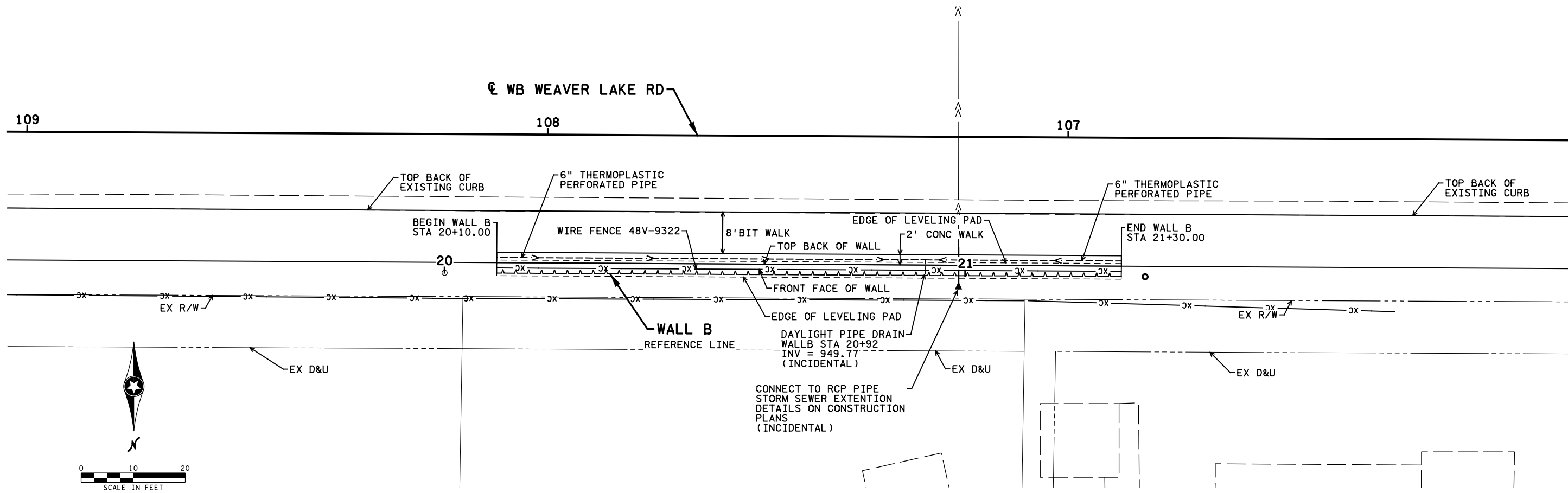


CITY OF MAPLE GROVE

RETAINING WALL (MOD BLOCK) MISCELLANEOUS DETAILS

WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

SHEET 20 OF 32



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Print Name: TYLER A. SMITH

Tyler Smith

Date: 5/5/2022 License #: 56135

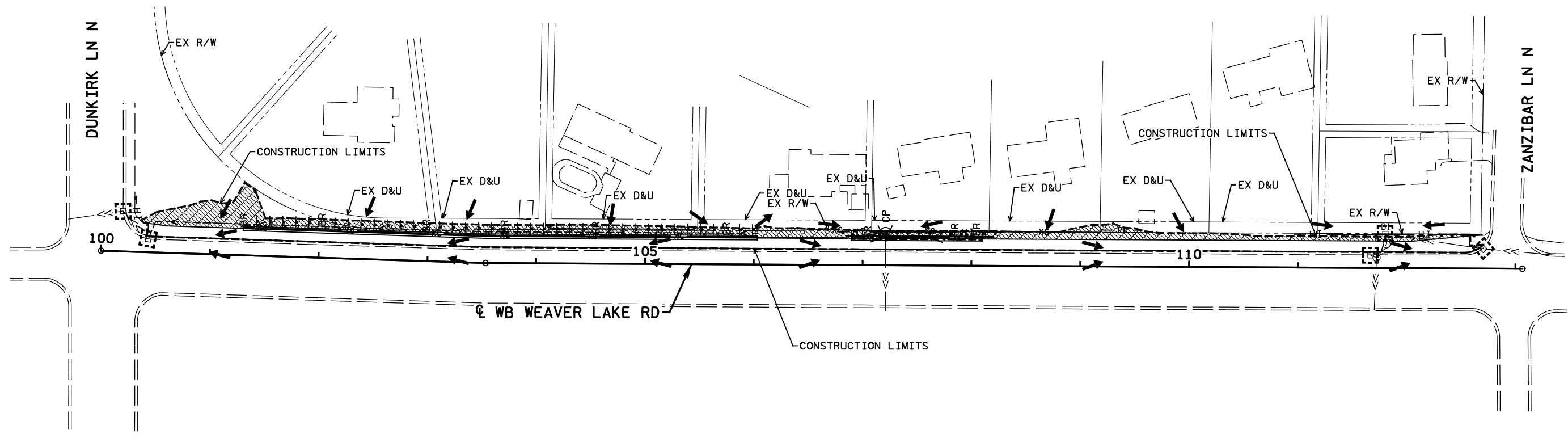
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 DESIGNED BY J. THIESSE
 CHECKED BY S. PRUSAK
 COMM. NO. 0012457



CITY OF MAPLE GROVE
 RETAINING WALL PLAN AND PROFILE
WEAVER LAKE RD RETAINING WALL RECONSTRUCTION
 WALL B (MODULAR BLOCK)

SHEET
21
OF
32



LEGEND	
	PROPOSED CONSTRUCTION
	PROPOSED RETAINING WALL
	SODDING TYPE LAWN
	SEDIMENT CONTROL LOG TYPE STRAW (HAND INSTALLED)
	SILT FENCE, TYPE HI (HAND INSTALLED)
	STORM DRAIN INLET PROTECTION
	STORM DRAIN INLET PROTECTION
	DIRECTION OF FLOW

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NO	DATE	BY	CKD	APPR	REVISION

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 Print Name: TYLER A. SMITH

 Date: 5/5/2022 License #: 56135

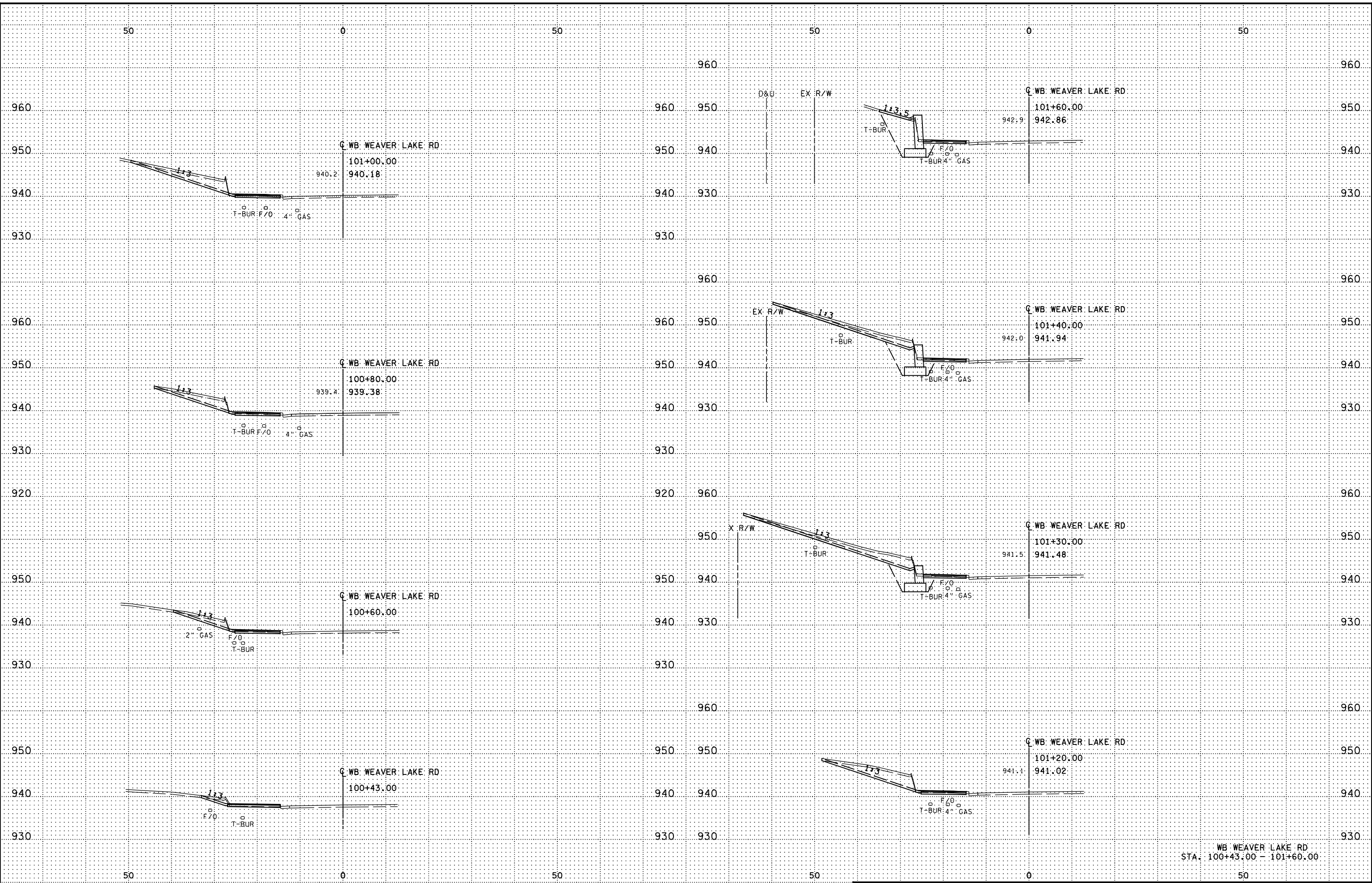
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 DRAWN BY S. MARTINS
 DESIGNED BY T. SMITH
 CHECKED BY S. PRUSAK
 COMM. NO. 0012457



CITY OF MAPLE GROVE
 EROSION CONTROL AND TURF ESTABLISHMENT PLANS
WEAVER LAKE RD RETAINING WALL RECONSTRUCTION

SHEET
22
OF
32

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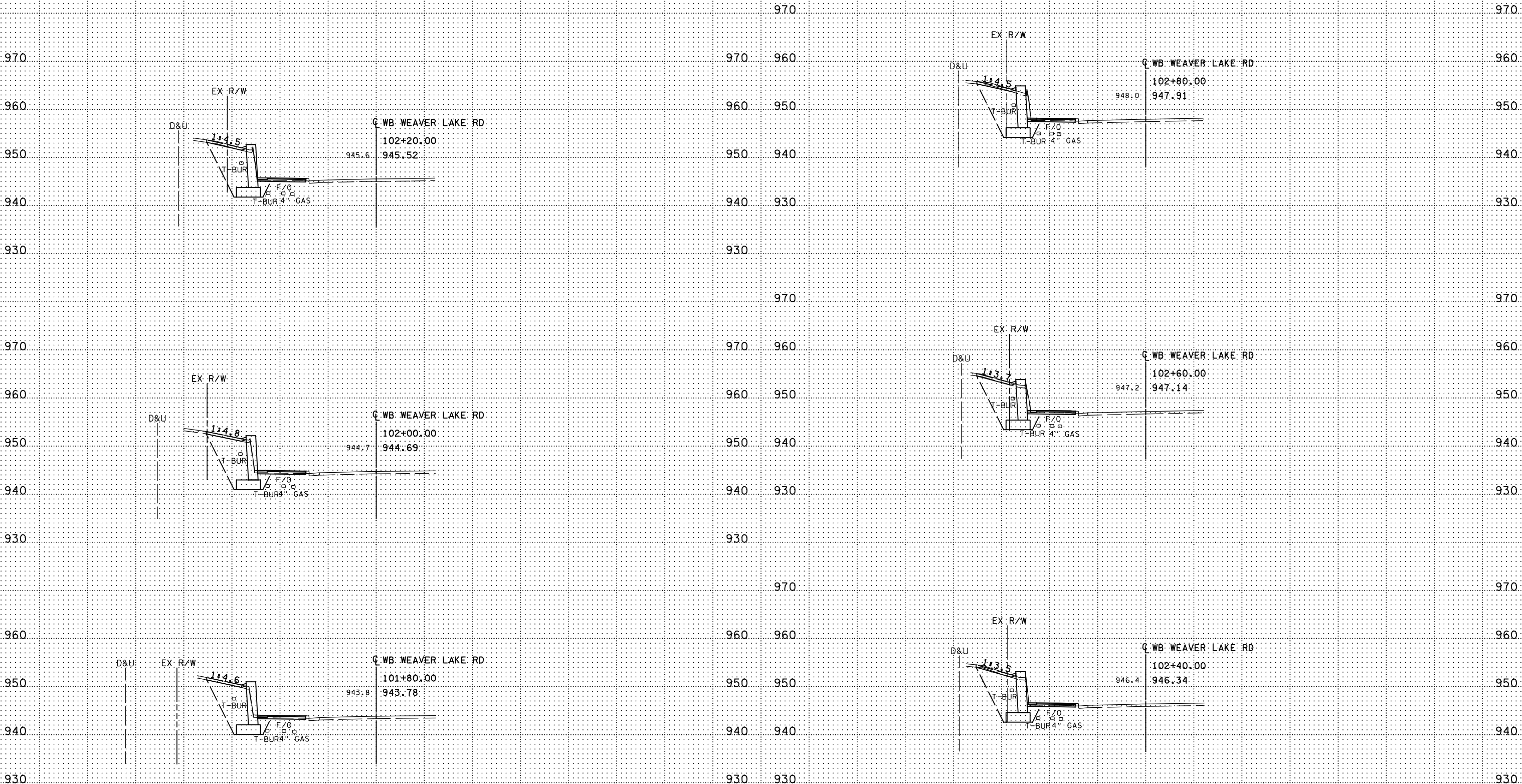
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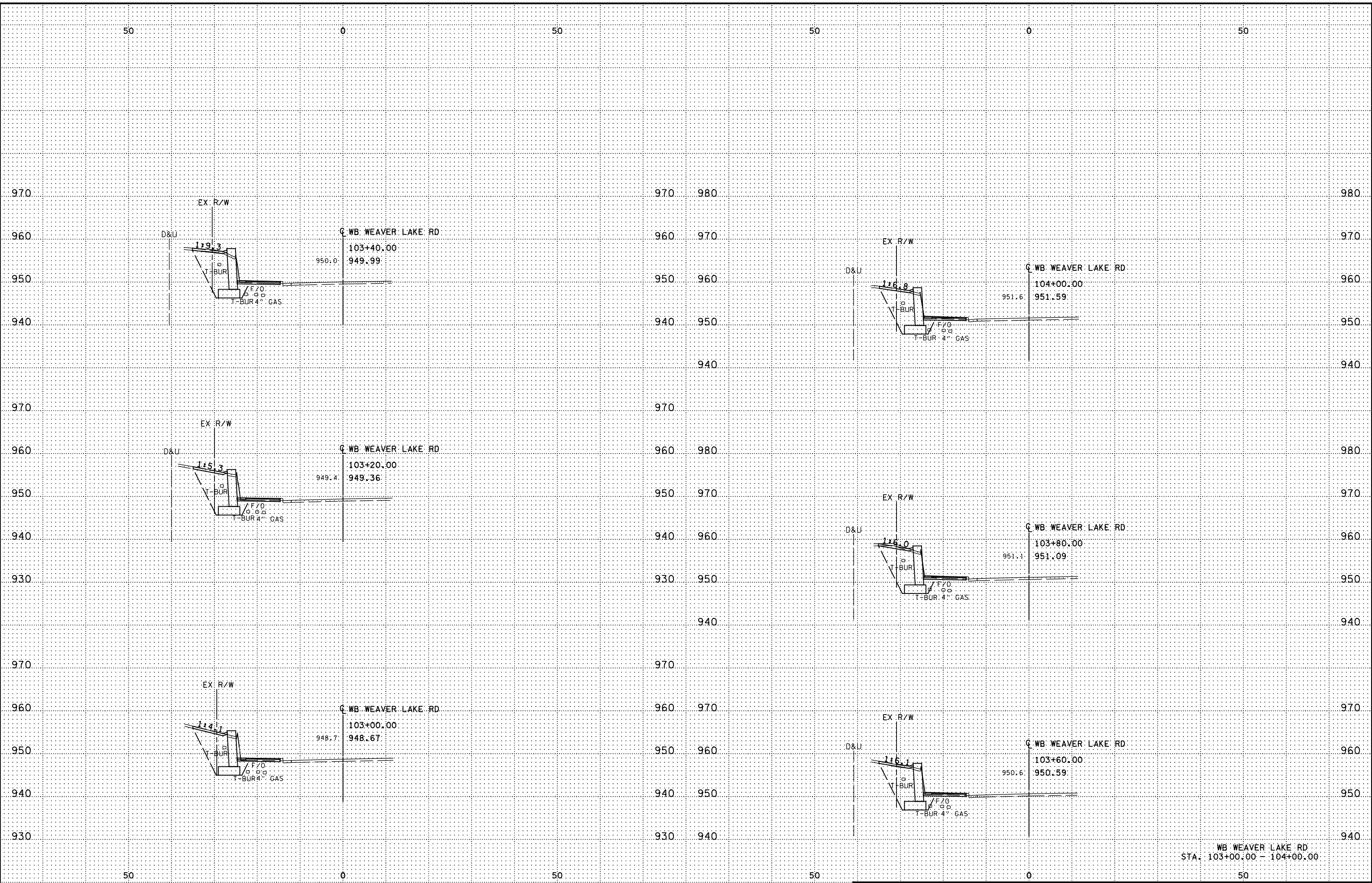
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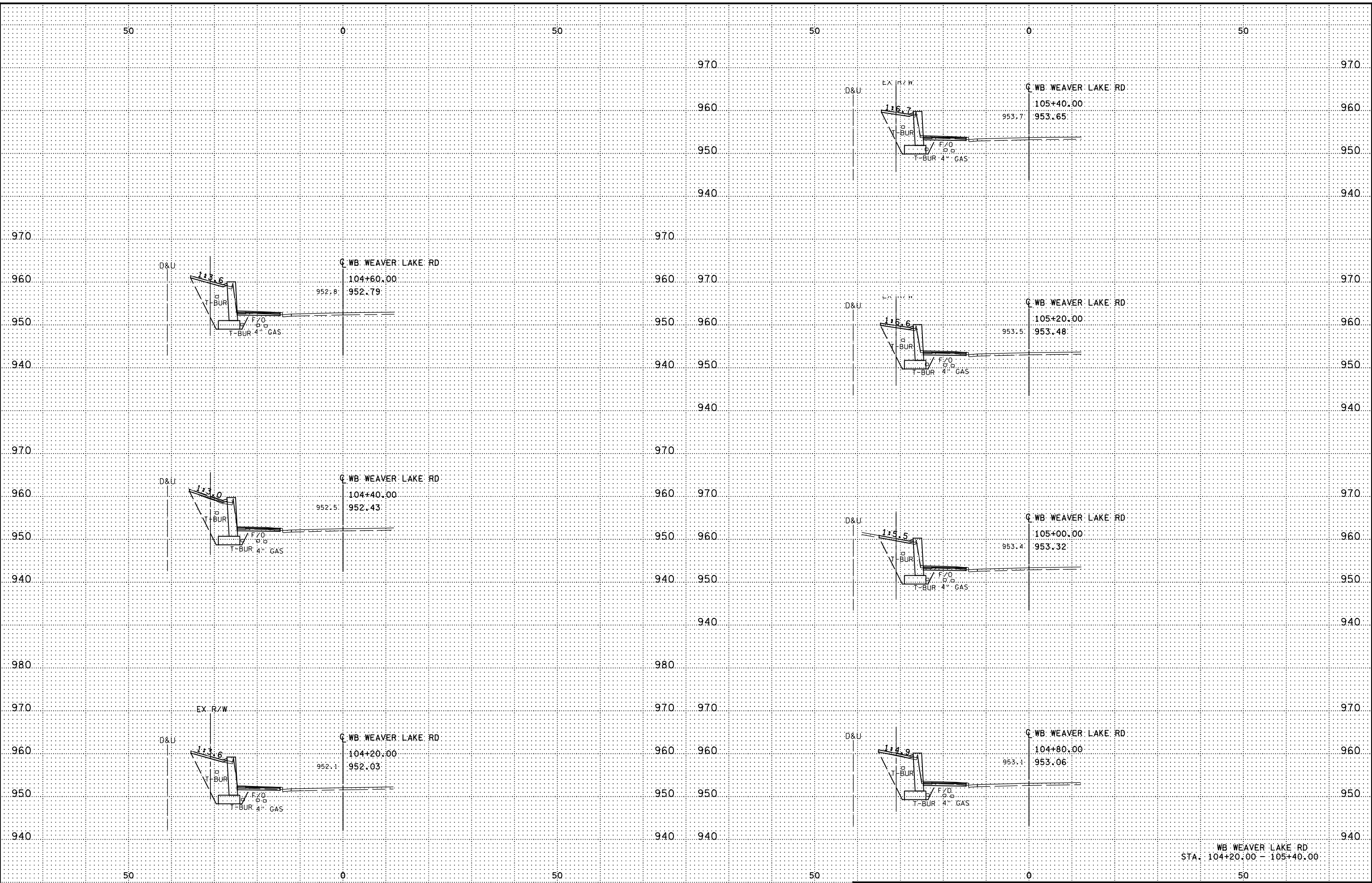
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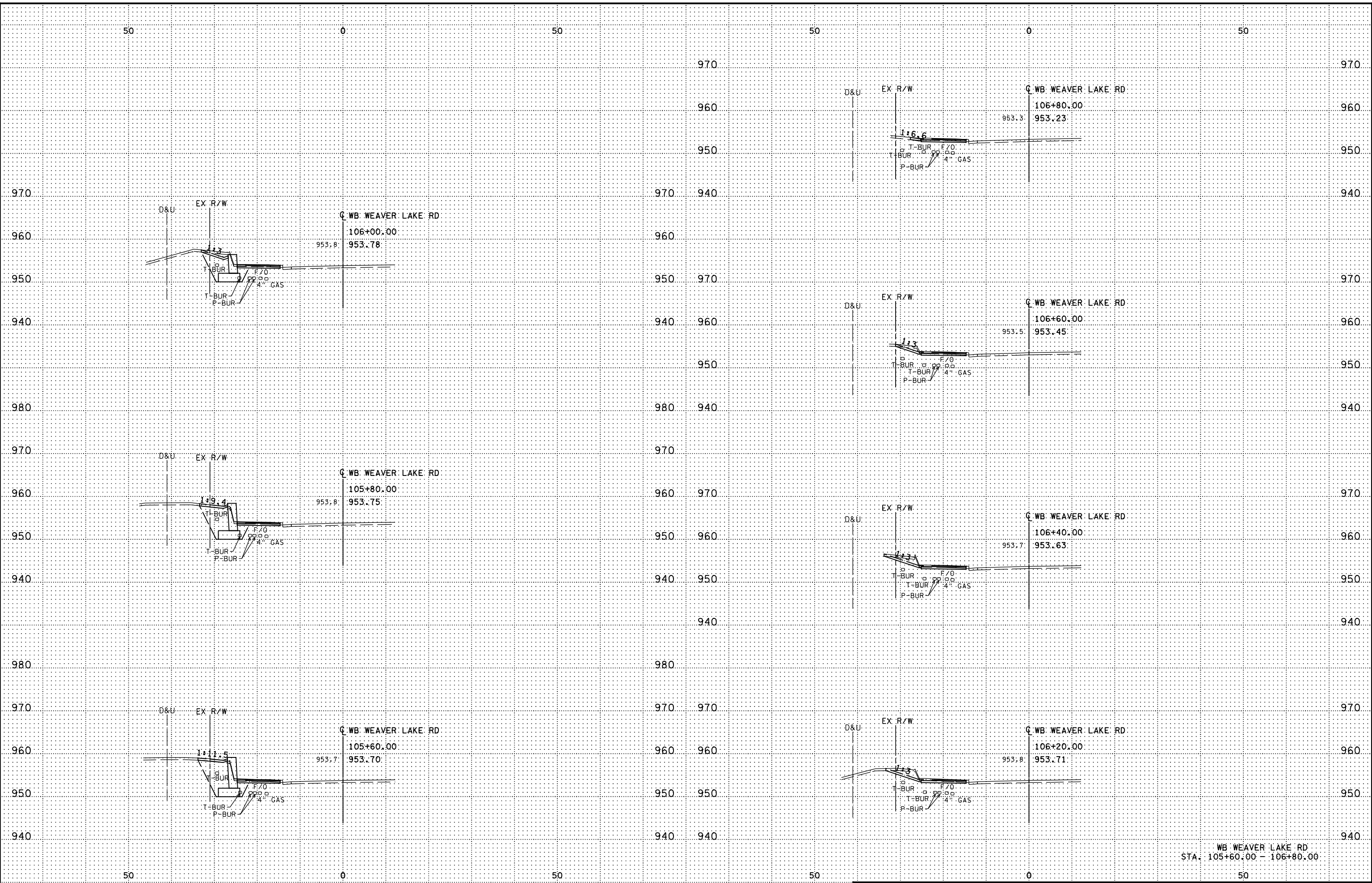
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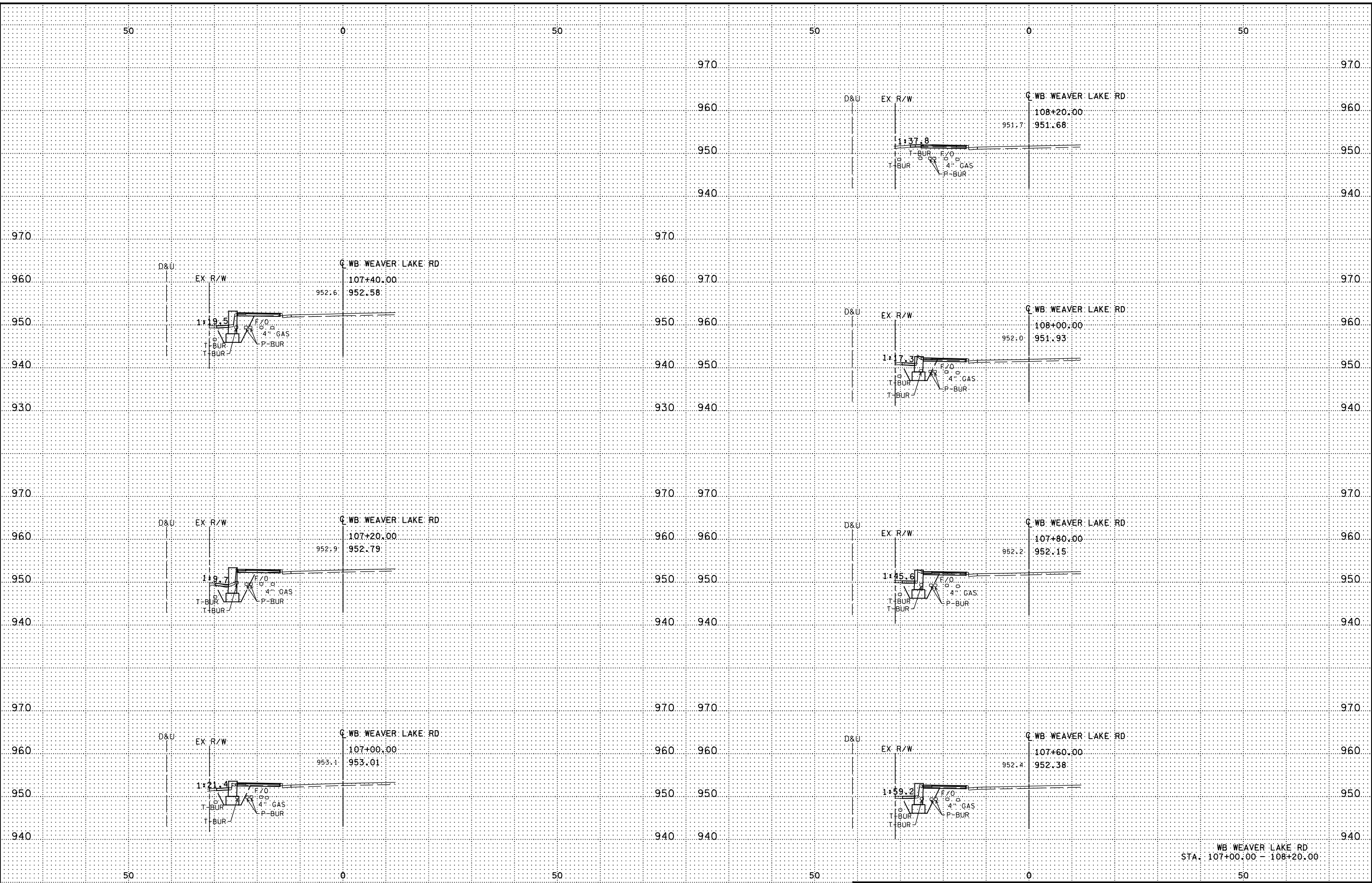
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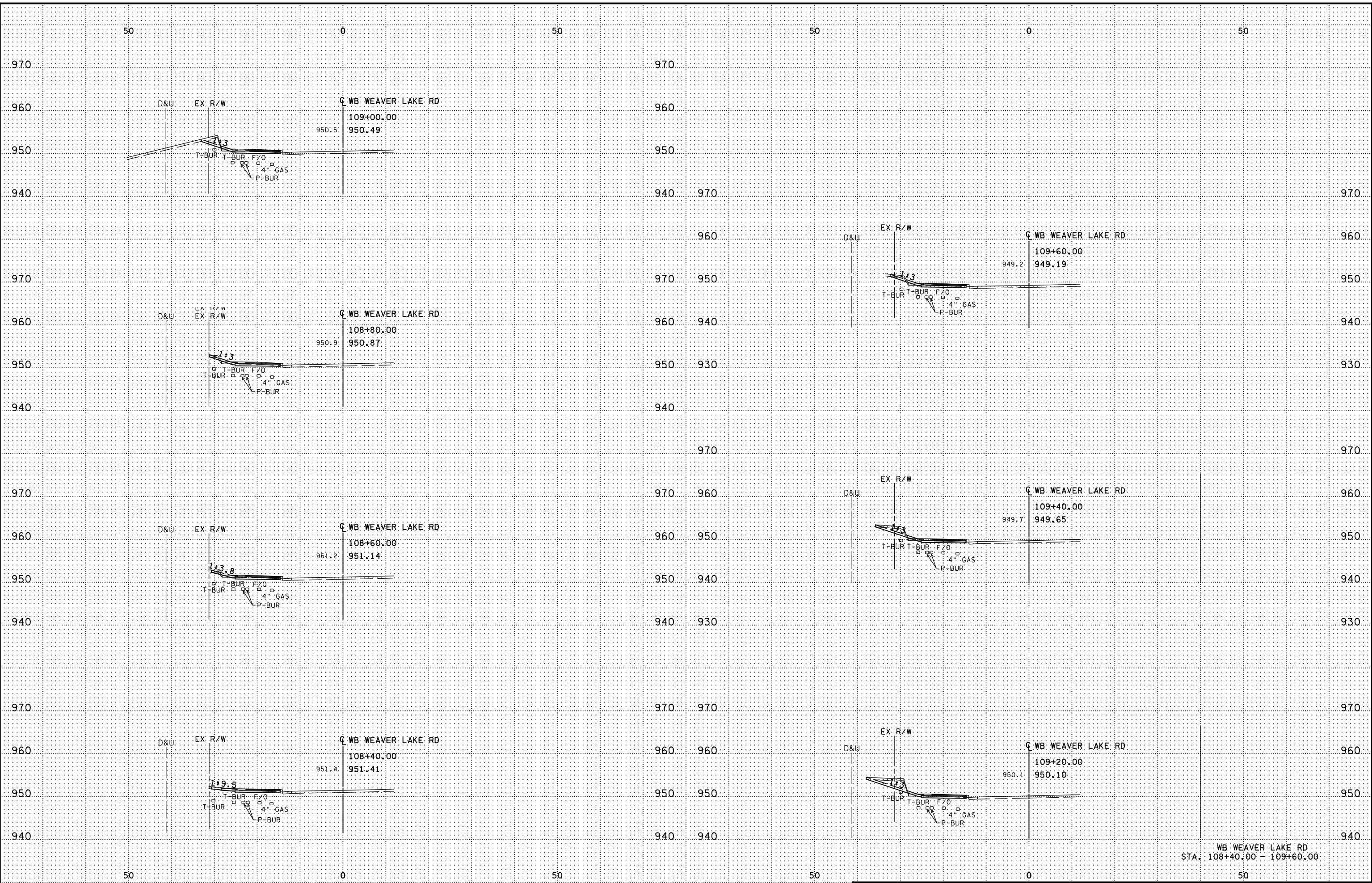


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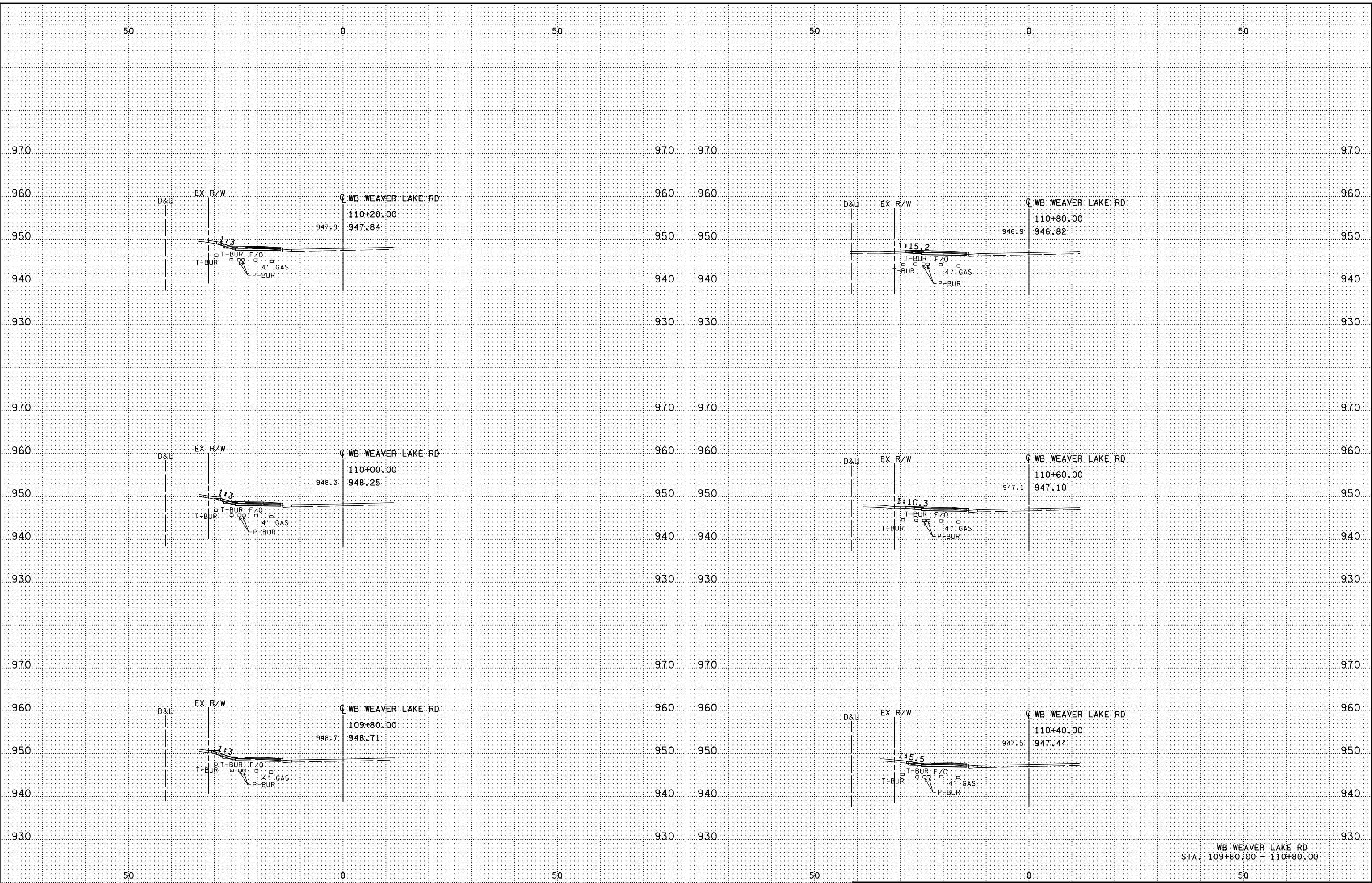


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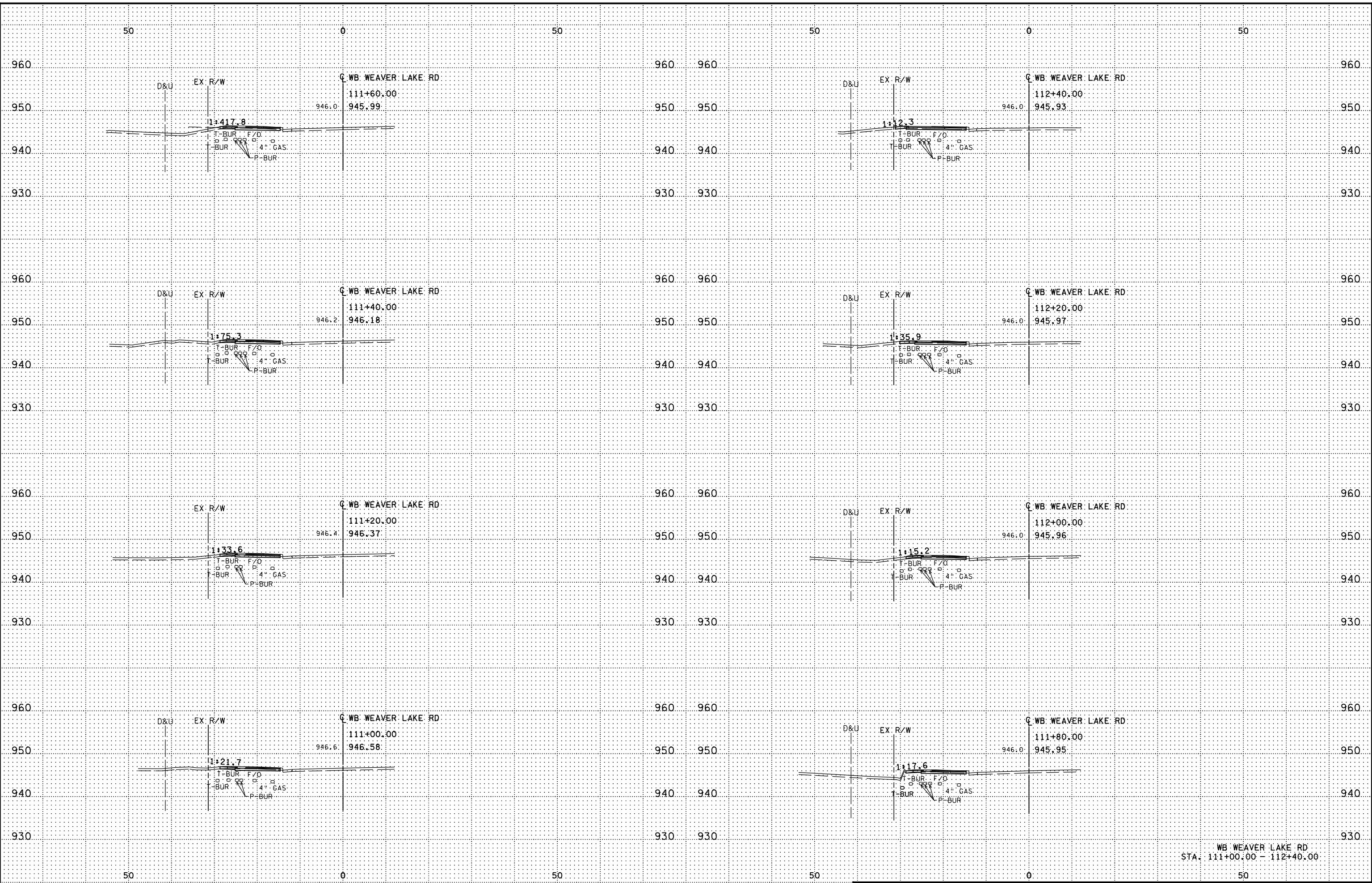
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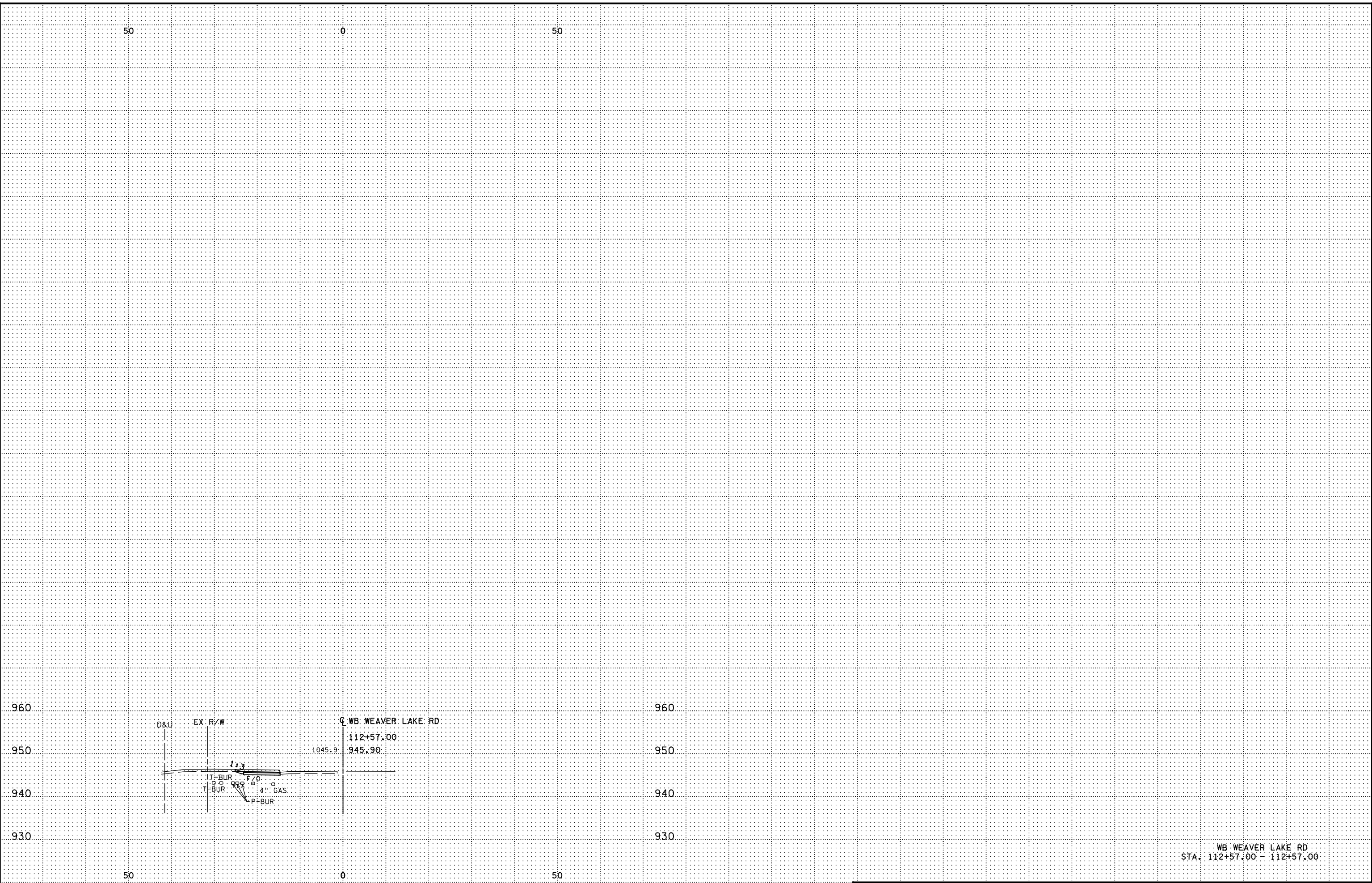
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