

SEL PROJECT ID 2500-00-70 WITH: NONE COUNTY MILWAUKEE

JULY 2014

ORDER OF SHEETS

SECTION NO. 1	TITLE
SECTION NO. 2	TYPICAL SECTIONS AND DETAILS
SECTION NO. 3	ESTIMATE OF QUANTITIES
SECTION NO. 3	MISCELLANEOUS QUANTITIES
SECTION NO. 4	RIGHT-OF-WAY PLAT
SECTION NO. 5	PLAN
SECTION NO. 6	STANDARD DETAIL DRAWINGS
SECTION NO. 7	SIGN PLATES
SECTION NO. 8	STRUCTURE PLANS
SECTION NO. 9	COMPUTER EARTHWORK DATA
SECTION NO. 9	CROSS-SECTIONS

TOTAL: 30



DESIGN DESIGNATION

A.D.T. (CURRENT) =
A.D.T. ()
D.H.V.
D.
T.
DESIGN SPEED
ESALS

CONVENTIONAL SYMBOLS

PLAN

COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
CORPORATE OR CITY LIMITS
PROPERTY LINE
STANDARD BENCH MARK
EXISTING RIGHT OF WAY LINE
PROPOSED SEWER LATERAL
REFERENCE LINE
CONCRETE WALK/DWY. REMOVAL
LIMITS OF CONCRETE
PAVEMENT REMOVAL

COMBUSTIBLE FLUIDS

RAILROADS
FENCE
CATCH BASIN OR INLET
EXISTING
PROPOSED

PROFILE

GRADE LINE
ORIGINAL GROUND
GRADE ELEVATION

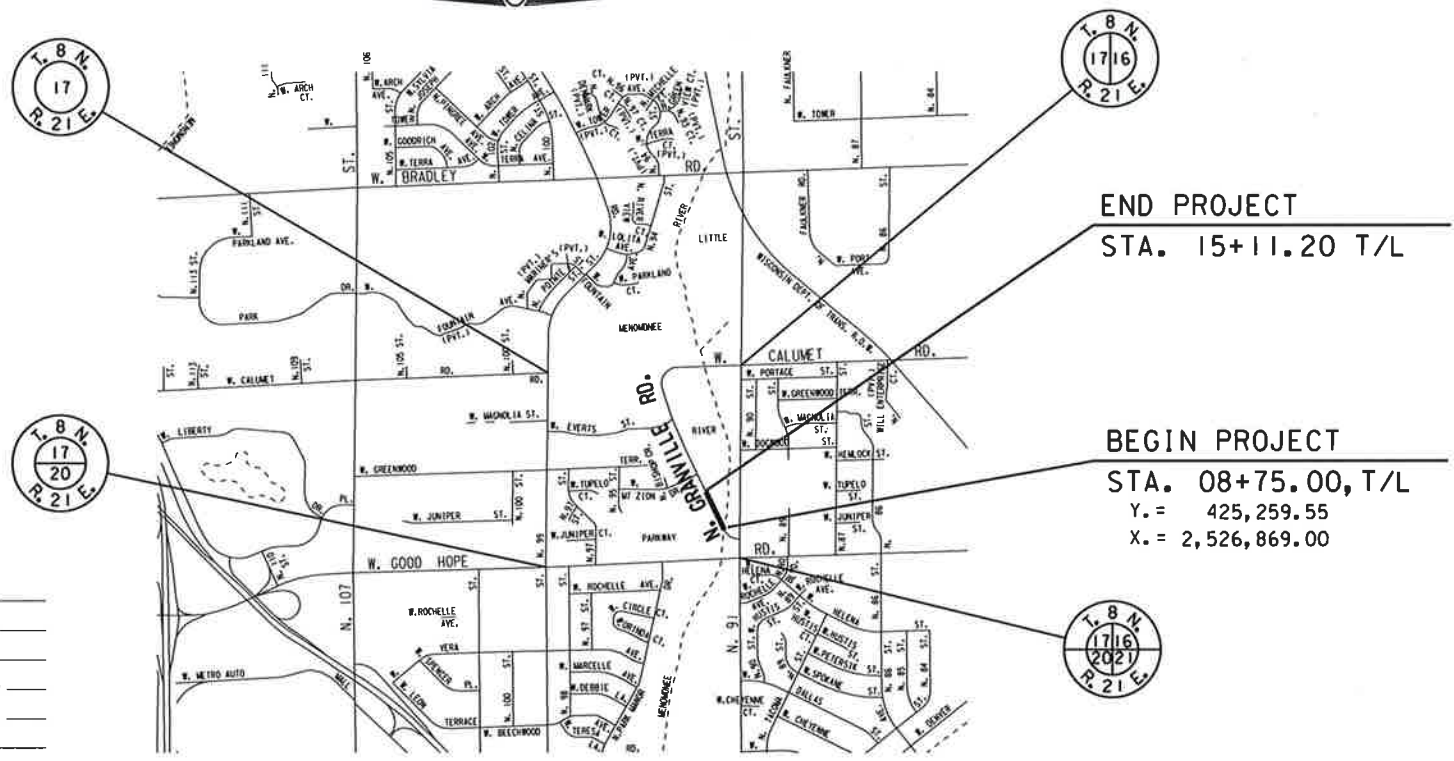
UTILITIES

ELECTRIC
FIBER OPTIC
GAS
SANITARY SEWER
STORM SEWER
TELEPHONE
WATER
TRAFFIC & ELECTRICAL SERVICES
MILWAUKEE METRO SEWERAGE DIST
CABLE TELEVISION
FIRE & POLICE CALL BOX
LIGHT POLE
POWER POLE
TELEPHONE OR TELEGRAPH POLE
TRAFFIC SIGNAL
TRAFFIC SIGNAL CONTROL BOX
HYDRANT
GAS OR WATER GATE VALVE
MANHOLES - SEWER
UTILITY (TYPE)
TREES - EXISTING
TO BE REMOVED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

N GRANVILLE ROAD
BRIDGE OVER LITTLE MENOMONEE RIVER AND APPROACHES
LOCAL STREET
CITY OF MILWAUKEE, MILWAUKEE COUNTY

STATE PROJECT NUMBER
2500-00-70



LAYOUT
SCALE 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.121 MI

THE COORDINATES ON THIS PLAN ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, MILWAUKEE COUNTY, NAD 27 SOUTH ZONE.
COMBINATION SCALE AND SEA LEVEL REDUCTION FACTOR .99992542
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE CITY OF MILWAUKEE DATUM.
TO CONVERT ELEVATIONS SHOWN ON THIS PLAN TO NATIONAL GEODESIC VERTICAL DATUM OF 1929, ADD 580.603 TO ELEVATIONS SHOWN ON THIS PLAN.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2500-00-70	WISC 2014266	I

Accepted For
City of Milwaukee

1/9/14 Ghassan Khar
(Date) Commissioner of Public Works

Original Plans Prepared By



1/9/14
(Date) City Engineer

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor City of Milwaukee
Designer City of Milwaukee
Management Consultant DAAR Engineering
C.O. Examiner

APPROVED FOR THE DEPARTMENT

DATE: 1/25/2014
(Signature)

E

GENERAL NOTES

- 1
- ALL DISTRUBED AREAS NOT SURFACED ARE TO BE COVERED WITH 6" OF TOPSOIL, SEEDED AND FERTILIZED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. TOPSOILED AREAS SHALL BE SEEDED AND FERTILIZED WITHIN 5 CALENDAR DAYS.

2

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS DESIGNATED FOR REMOVAL BY THE ENGINEER.

3

ALL ELEVATIONS ARE REFERENCED TO CITY OF MILWAUKEE DATUM.

4

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

5

ALL COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM, SOUTH ZONE. THE CONTROL SURVEY FOR THIS IMPROVEMENT PROJECT WAS CONDUCTED UNDER AND MET SPECIFICATIONS FOR THIRD ORDER CONTROL CURVEYS.

6

CONTRACT WORK IN AND AROUND THE WATERS OF THE LITTLE MENOMONEE RIVER IS AUTHORIZED UNDER ARMY CORPS OF ENGINEERS PERMIT GP-002-WI. ALL CONTRACT WORK MUST BE DONE IN ACCORD WITH THE STANDARD CONDITIONS CONTAINED THEREIN.FOR A COPY OF THE PERMIT, PLEASE CONTACT MR. CHAD CHRISBAUM AT 414 286-0470.

UTILITIES WITHIN PROJECT LIMITS

CITY OF MILWAUKEE
841 N. BROADWAY, RM 710 MILW.,WI 53202
MUSA ABU-KHADER TEL. (414) 286-2432
UTILITY COORDINATOR

WE ENERGIES (GAS)
5400 N. GREEN BAY AVE., MILW., WI 53209
TOM MINESAL, TEL. 944-5755

WE ENERGIES (ELECTRIC)
560 S. 116TH ST., WEST ALLIS, WI 53214
LEONARD WILSON, TEL. (414) 944-5690

AT&T MIDWEST ENGINEERING OFFICE
7721 W. FOND DU LAC AVE. , MILW., WI 53218
JAY BULANEK, TEL. (414) 535-7407

TIME WARNER CABLE
1320 N. DR. MARTIN LUTHER KING JR. DR
MILW., WI 53212
STEVE CRAMER, TEL. (414) 277-4045

MMSD
260 W. SEEBOTH ST., MILW., WI 53204
DEBRA JENSEN, TEL. (414) 225-2143

OTHER CONTACTS

MILW. CO. TRANSIT SYSTEM
1942 N. 17TH ST., MILW., WI 53205
DAVE ZIAREK, TEL. (414) 343-1764

STATE OF WISCONSIN DEPT. OF NATURAL RESOURCES
2300 N. DR. MARTIN LUTHER KING JR. DR.
MILW., WI 53212
KRISTINA BETZOLD
TEL. (414) 263-8517

SEWRPC
W239 N1812 ROCKWOOD DR.
KURT BAUER/ DONALD SMITH
P.O.BOX 1607 WAUKESHA, WI 53187-1607
TEL. (262) 547-6721, FAX (262) 547-1103

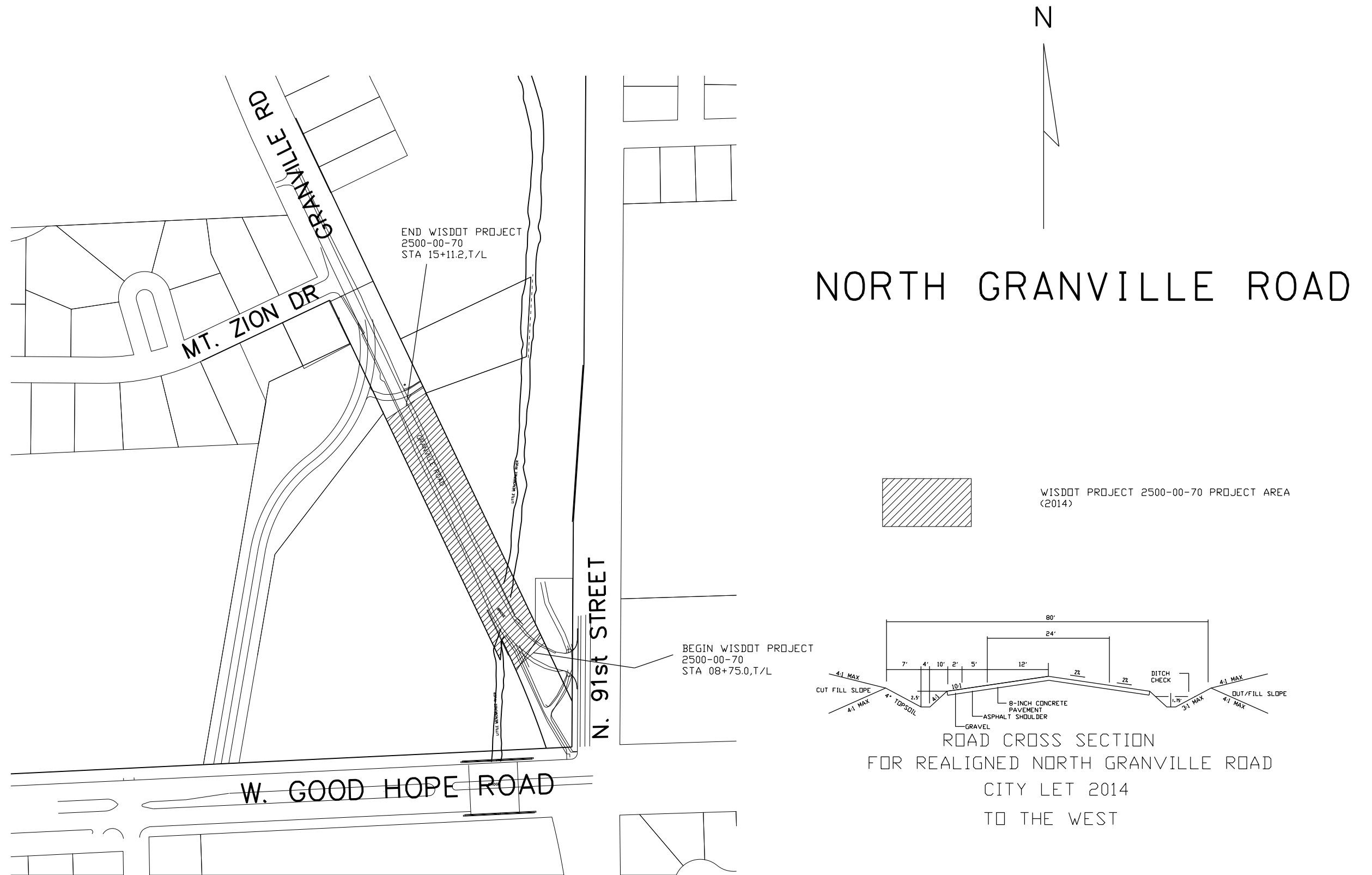


STANDARD ABBREVIATIONS

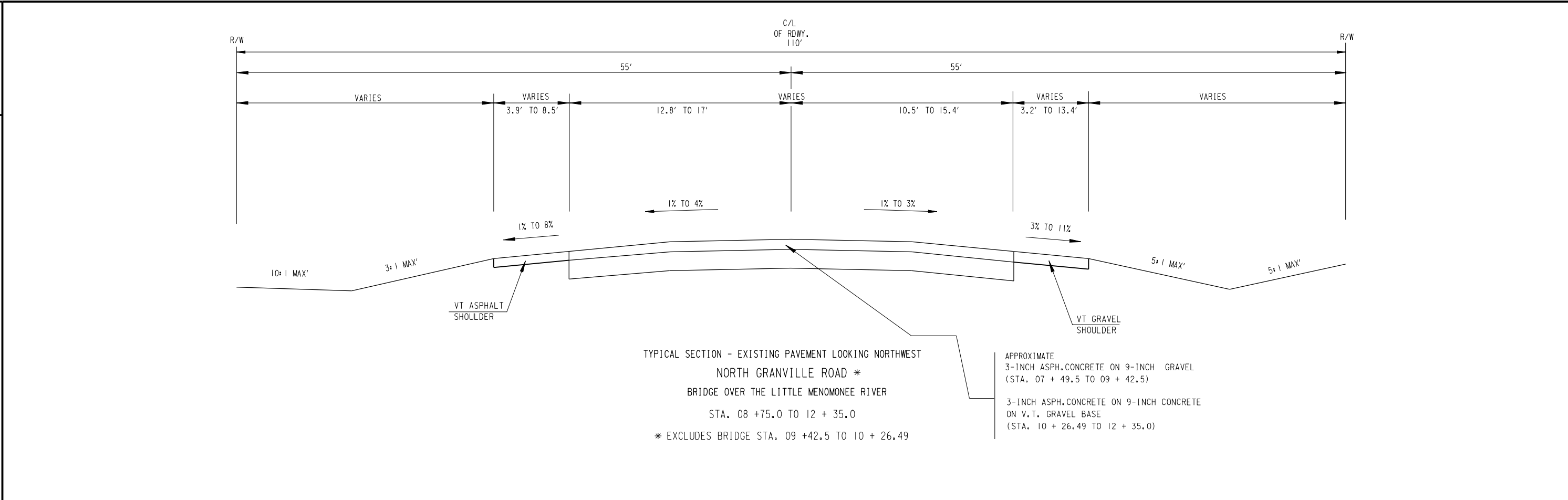
- ASPH.
- ASPHALT
- B.M.
- BENCH MARK
- CTR.
- CENTER
- C/L
- CENTER LINE
- COMB.
- COMBINED
- CONC.
- CONCRETE
- C.W.
- CONCRETE WALK
- COR.
- CORNER
- C
- CURB
- ELEV.
- ELEVATION
- ENT.
- ENTRANCE
- EXIST.
- EXISTING
- F
- FLANGE
- G
- GUTTER, OR GAS
- HYD.
- HYDRANT
- LT.
- LEFT
- MMSD
- MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
- P/L
- PROPERTY LINE
- R OR RAD.
- RADIUS
- RET.
- RETAINING
- RT.
- RIGHT
- R/W
- RIGHT OF WAY
- TEL
- AMERITECH
- TES
- TRAFFIC ENGINEERING,
AND ELECTRICAL SERVICES
- T/L
- TRANSIT LINE
- WEP
- WISCONSIN ELECTRIC POWER

SECTION 2 SHEET ORDER

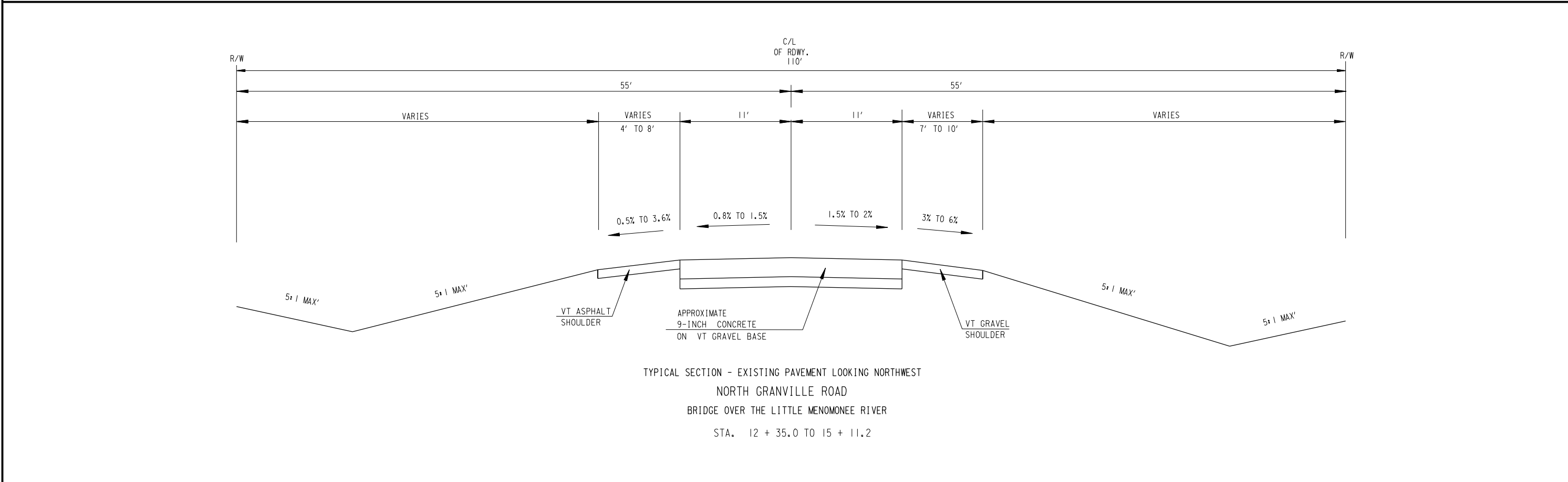
- GENERAL NOTES
- PROJECT OVERVIEW
- CONSTRUCTION DETAILS - TYPICAL SECTIONS
- TRAFFIC CONTROL
- CONSTRUCTION DETAILS - CLEARING AND GRUBBING
- CONSTRUCTION DETAILS - SNAKE FENCE
- CONSTRUCTION DETAILS
- UTILITIES AND DRAINAGE

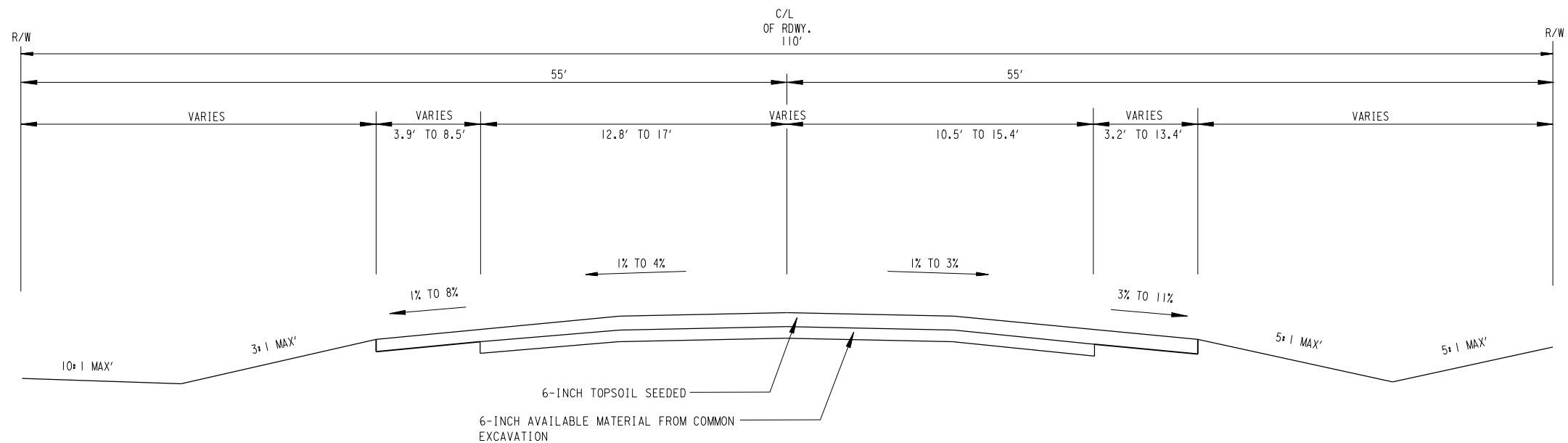


2

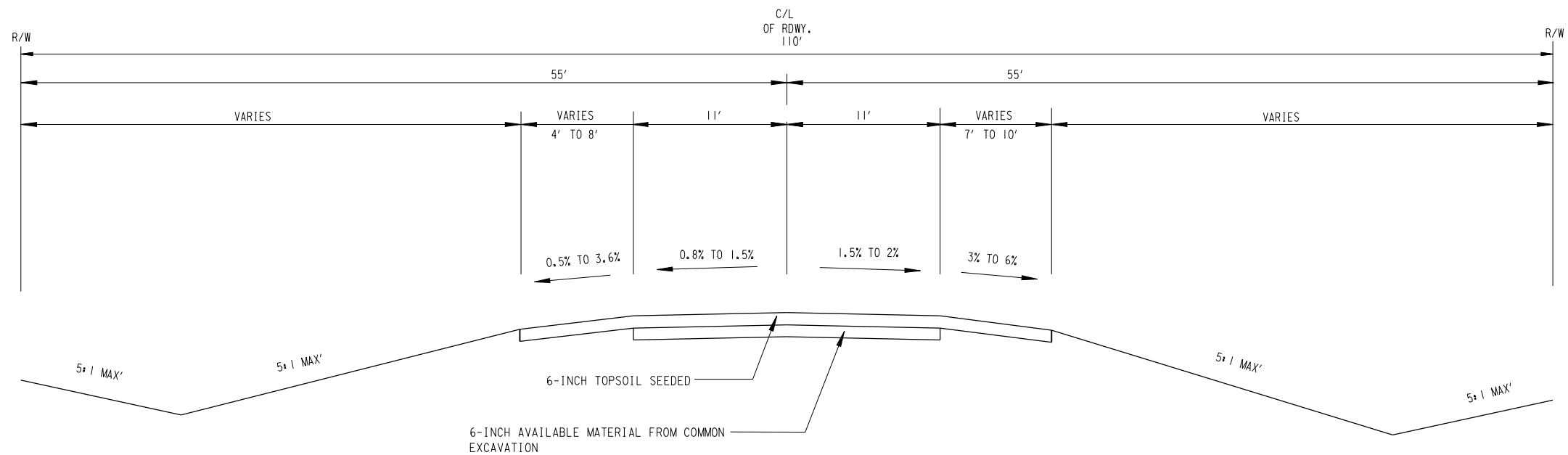


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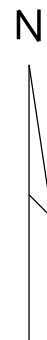




TYPICAL SECTION - FINISHED VIEW LOOKING NORTHWEST
NORTH GRANVILLE ROAD *
BRIDGE OVER THE LITTLE MENOMONEE RIVER
STA. 08 + 75.0 TO 12 + 35.0
* EXCLUDES BRIDGE STA. 09 +42.5 TO 10 + 26.49



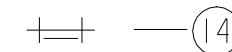
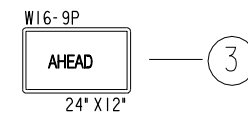
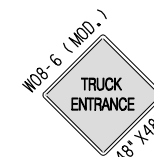
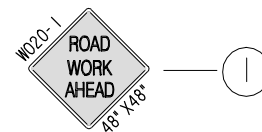
TYPICAL SECTION - FINISHED VIEW LOOKING NORTHWEST
NORTH GRANVILLE ROAD
BRIDGE OVER THE LITTLE MENOMONEE RIVER
STA. 12 + 35.0 TO 15 + 11.2



LEGEND

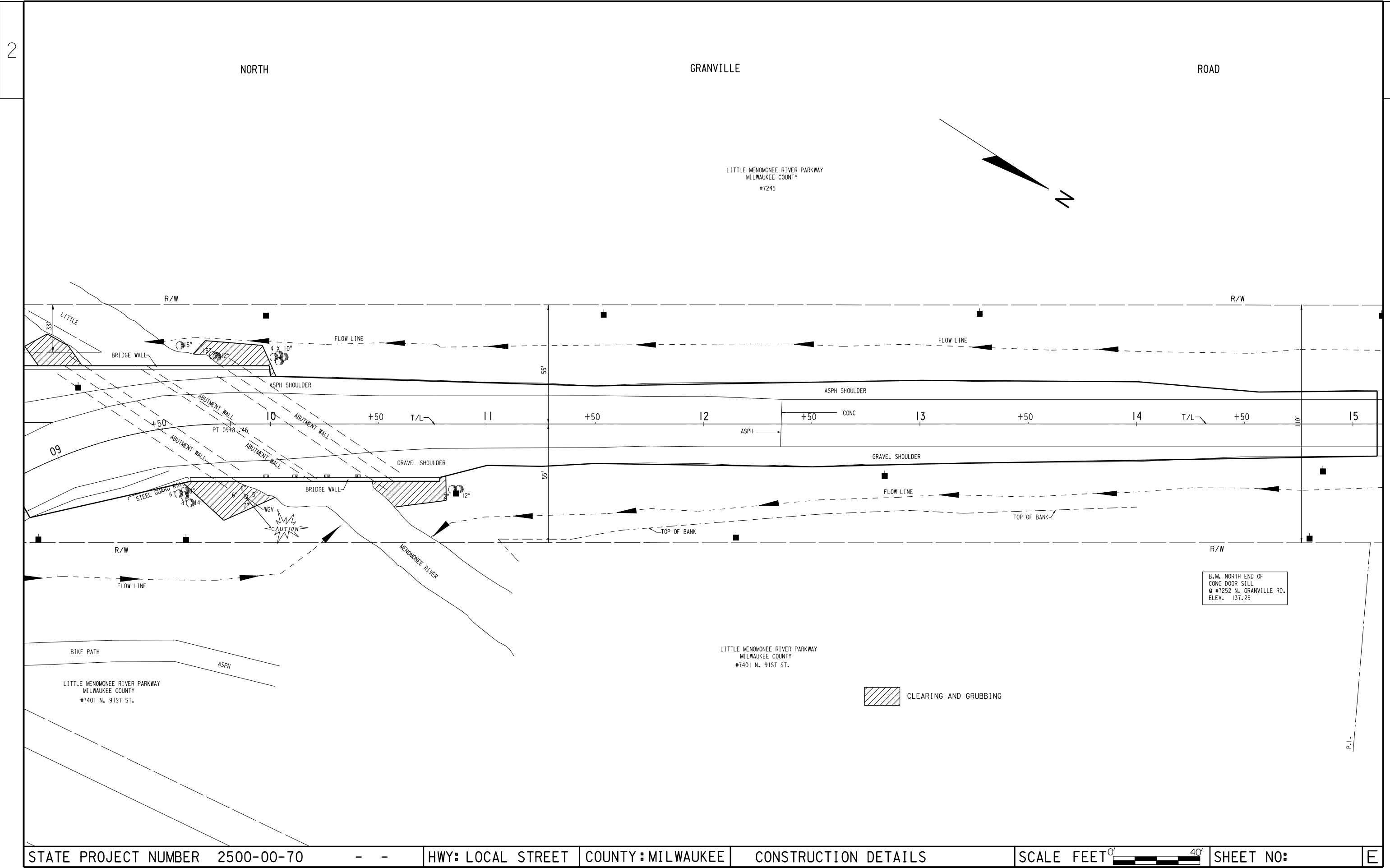


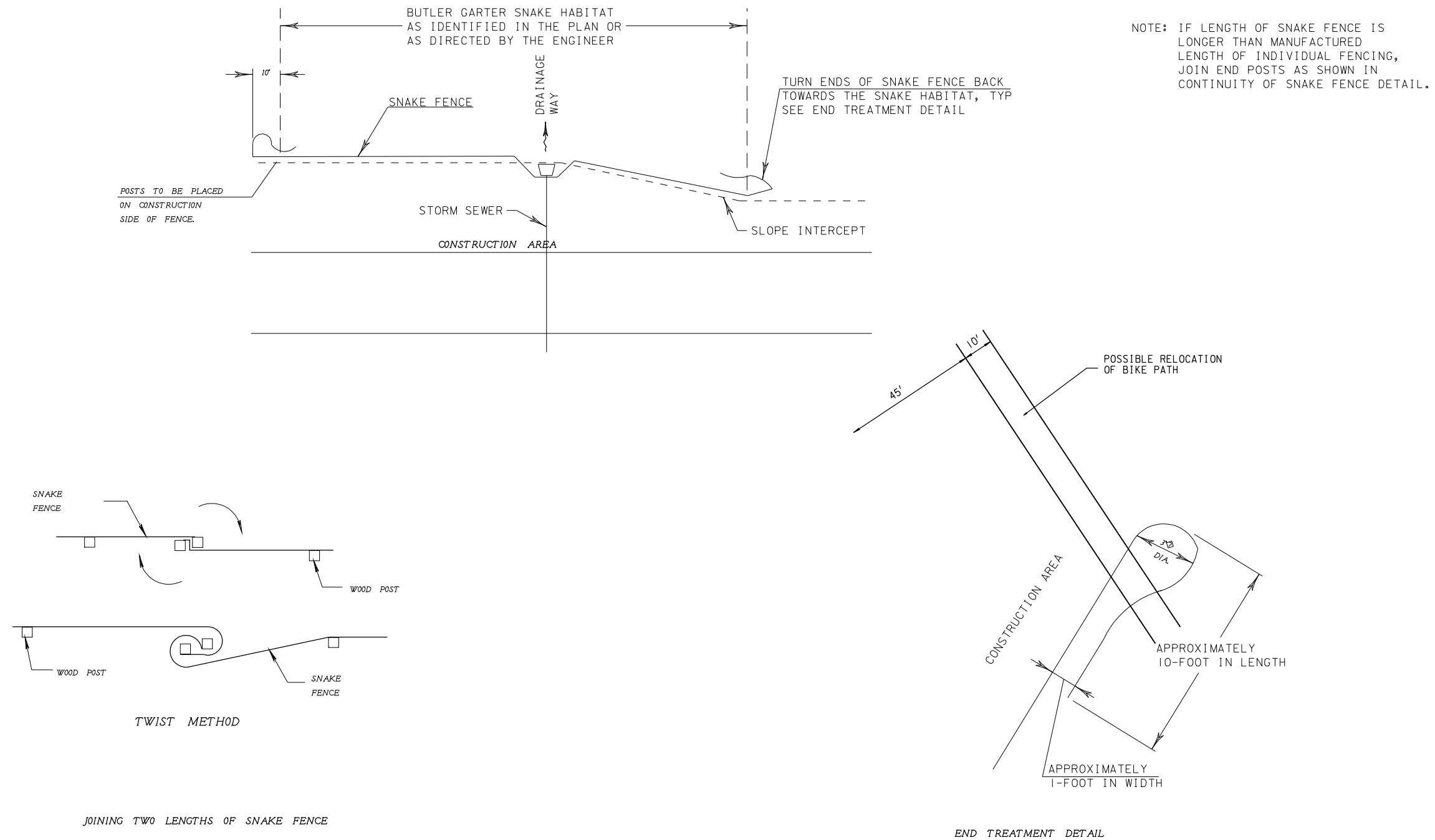
WISDOT PROJECT 2500-00-70 PROJECT AREA
2014

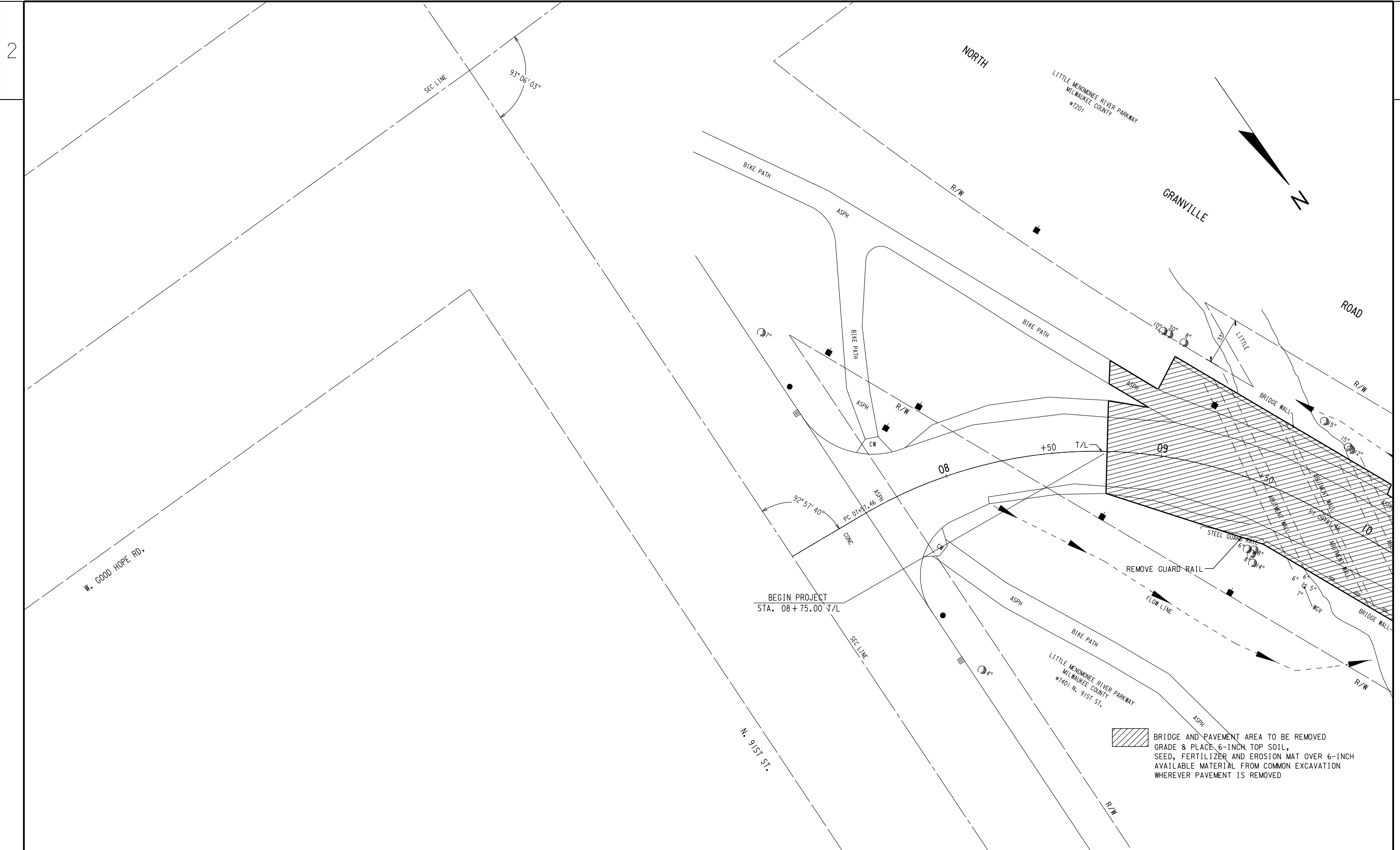


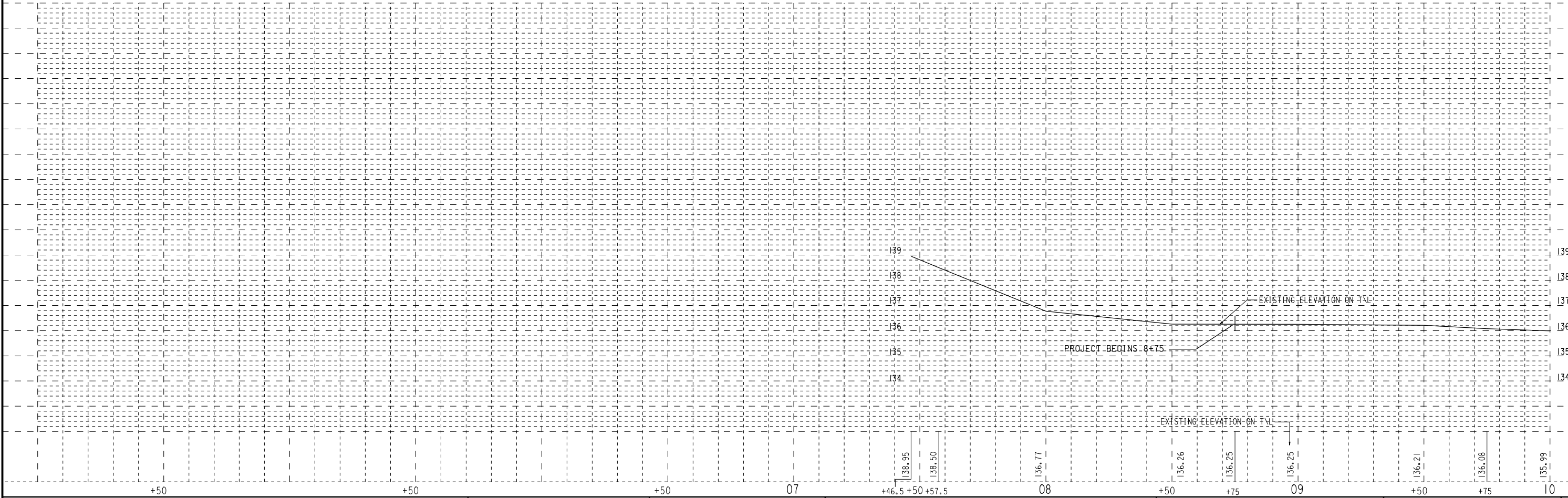
TYPE III BARRICADE W/SIGN

SHEET 1 OF 1

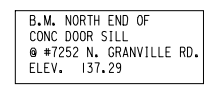




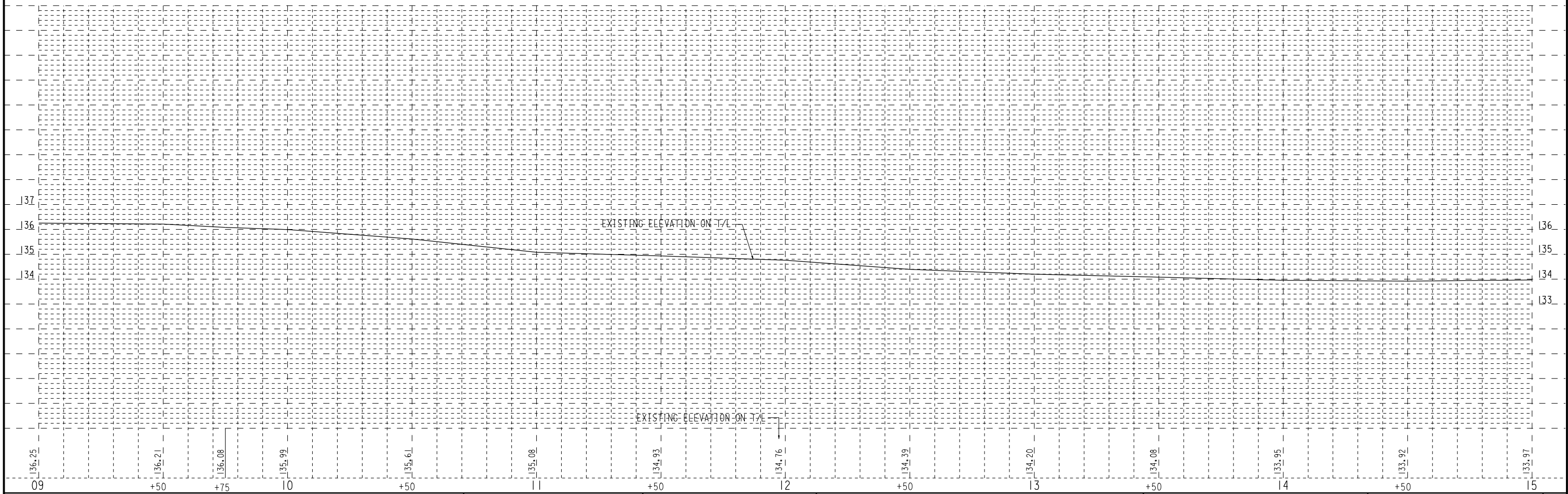


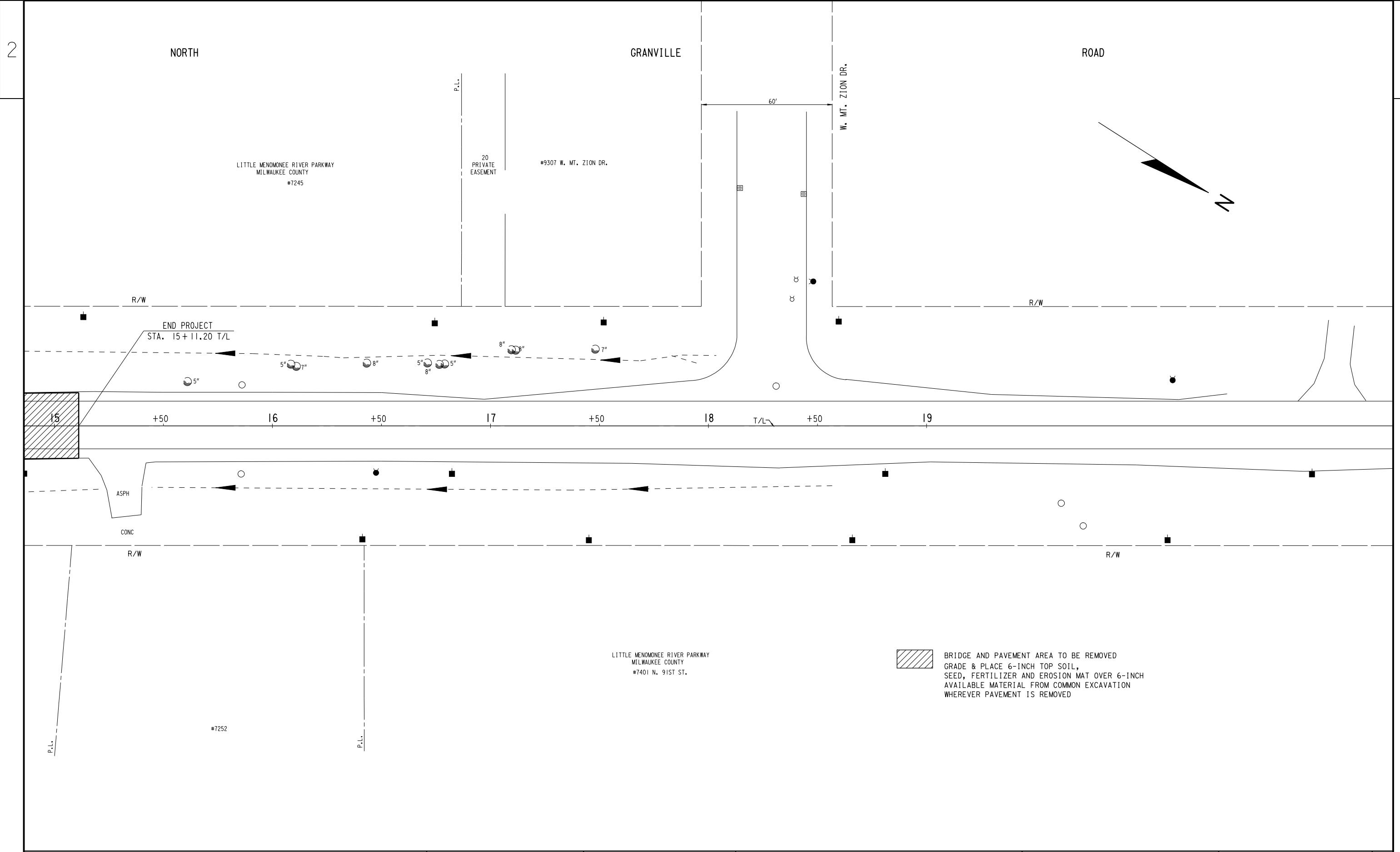


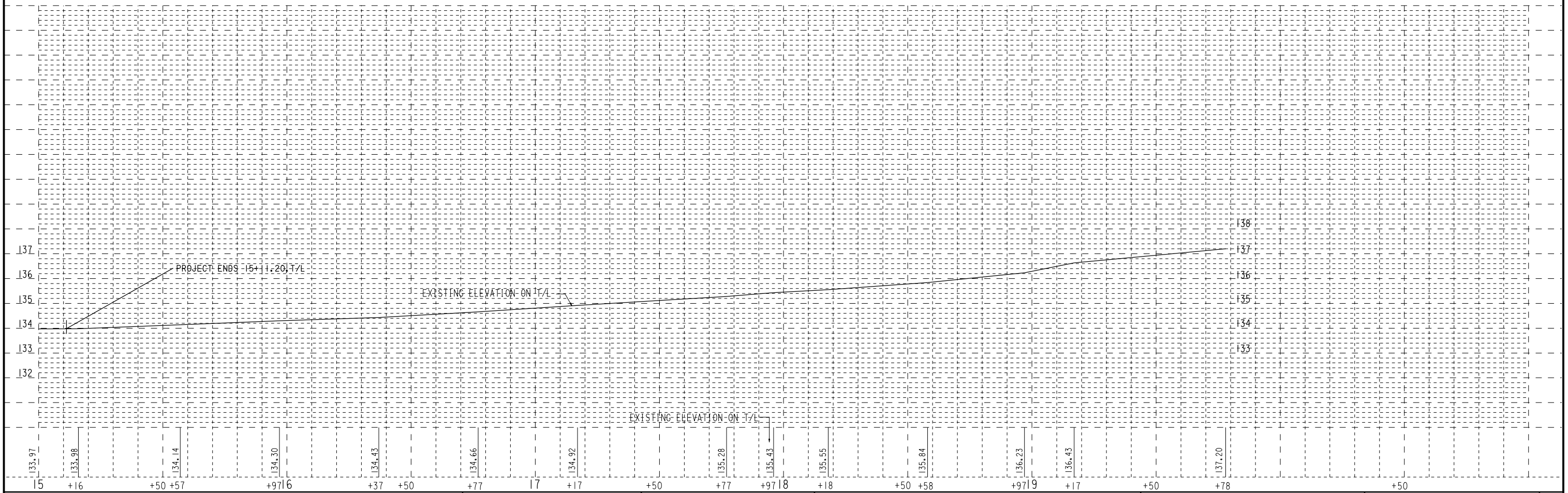
ROAD

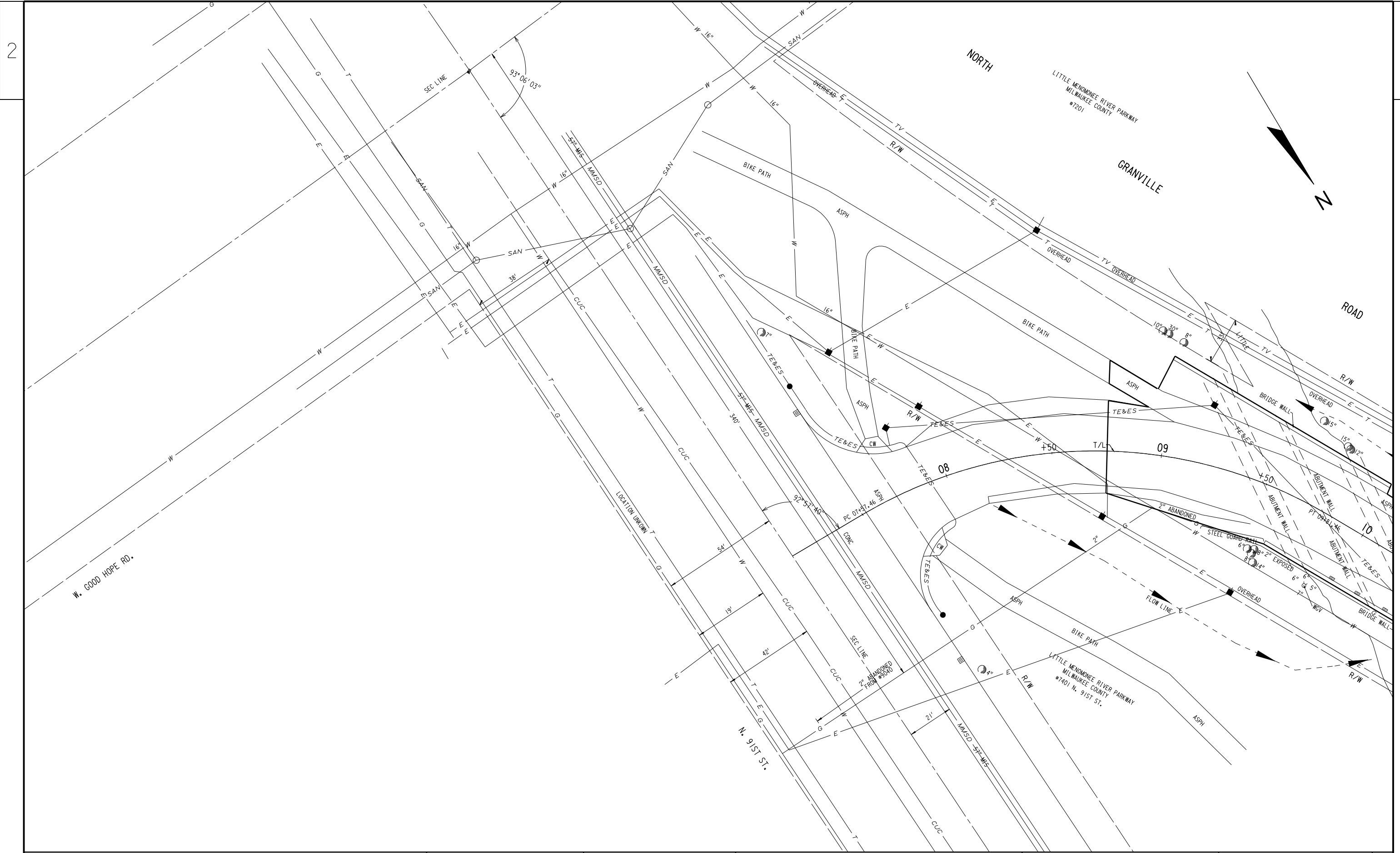


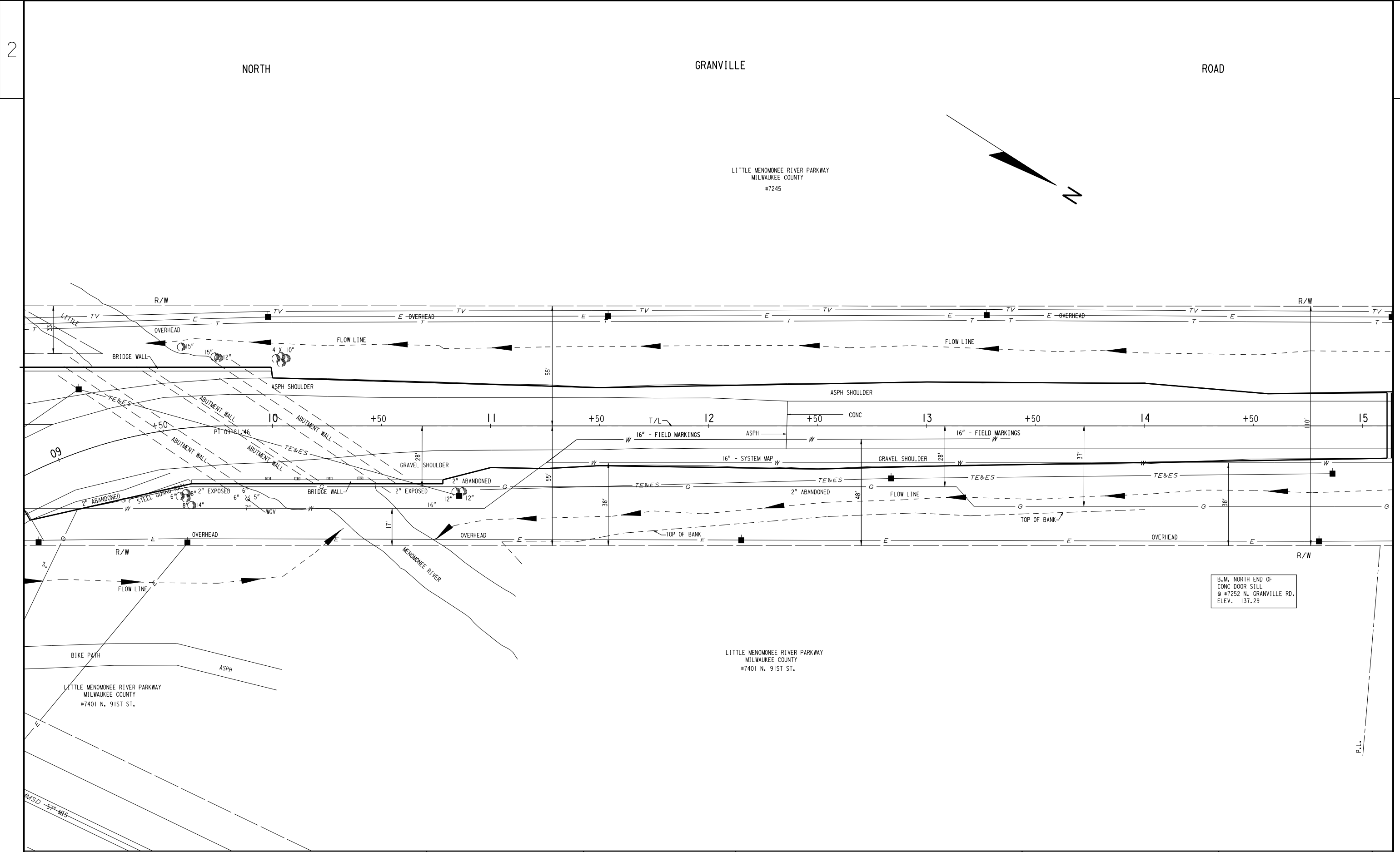
BRIDGE AND PAVEMENT AREA TO BE REMOVED
GRADE & PLACE 6-INCH TOP SOIL,
SEED, FERTILIZER AND EROSION MAT OVER 6-INCH
AVAILABLE MATERIAL FROM COMMON EXCAVATION
WHEREVER PAVEMENT IS REMOVED













DATE 01MAY14			E S T I M A T E O F Q U A N T I T I E S		
LINE					2500-00-70
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0110	CLEARING	SY	200.000	200.000
0020	201.0210	GRUBBING	SY	200.000	200.000
0030	203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 01. 9+82.00	LS	1.000	1.000
0040	204.0100	REMOVING PAVEMENT	SY	700.000	700.000
0050	204.0165	REMOVING GUARDRAIL	LF	30.000	30.000
0060	205.0100	EXCAVATION COMMON	CY	780.000	780.000
0070	205.0501.S	EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	TON	332.000	332.000
0080	213.0100	FINISHING ROADWAY (PROJECT) 01. 2500-00-70	EACH	1.000	1.000
0090	619.1000	MOBILIZATION	EACH	1.000	1.000
0100	625.0100	TOPSOIL	SY	2,940.000	2,940.000
0110	628.1504	SILT FENCE	LF	120.000	120.000
0120	628.1520	SILT FENCE MAINTENANCE	LF	120.000	120.000
0130	628.2023	EROSION MAT CLASS II TYPE B	SY	3,670.000	3,670.000
0140	628.6005	TURBIDITY BARRIERS	SY	388.000	388.000
0150	628.7560	TRACKING PADS	EACH	1.000	1.000
0160	629.0210	FERTILIZER TYPE B	CWT	2.000	2.000
0170	630.0170	SEEDING MIXTURE NO. 70	LB	50.000	50.000
0180	642.5201	FIELD OFFICE TYPE C	EACH	1.000	1.000
0190	643.0100	TRAFFIC CONTROL (PROJECT) 01. 2500-00-70	EACH	1.000	1.000
0200	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	798.000	798.000
0210	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1,596.000	1,596.000
0220	643.0900	TRAFFIC CONTROL SIGNS	DAY	342.000	342.000

2500-00-70					
REMOVALS					
CATEGORY 010	ITEM NO. UNIT PAY	CLEARING 201.0110 SY	GRUBBING 201.0210 SY	REMOVING PAVEMENT 204.0100 SY	REMOVING GUARD RAIL 204.0165 LF
LOCATION					
STA 8+75 TO 9+81	LT	50	50	-	-
STA 9+81 TO 15+11.20	LT	50	50	350	-
SUB TOTALS (LEFT)		100	100	350	0
STA 8+75 TO 9+81	RT	50	50	-	30
STA 9+81 TO 15+11.20	RT	50	50	350	-
SUB TOTALS (RIGHT)		100	100	350	30
GRAND TOTALS		200	200	700	30

2500-00-70		
TRACKING PADS		
CATEGORY 010	ITEM NO. UNIT PAY	TRACKING PADS 628.7560 EACH
LOCATION		
UNDISTRIBUTED		1
GRAND TOTALS		1

2500-00-70									
LANDSCAPING ITEMS									
CATEGORY 010	ITEM NO. UNIT PAY	TOPSOIL 625.0100 SY	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.1520 LF	TURBIDITY BARRIERS 628.6005 SY	EROSION MAT CLASS II TYPE B 628.2023 SY	SEEDING MIXTURE NO. 70 630.0170 LB	FERTILIZER TYPE B 629.0210 CWT	
LOCATION									
STA 8+75 TO 9+81	LT	335	30	30	97	443	5	0.2	
STA 9+81 TO 15+11.20	LT	1,135	30	30	97	1,392	20	0.8	
SUB TOTALS (LEFT)		1,470	60	60	194	1,835	25	1.0	
STA 8+75 TO 9+81	RT	335	30	30	97	443	5	0.2	
STA 9+81 TO 15+11.20	RT	1,135	30	30	97	1392	20	0.8	
SUB TOTALS (RIGHT)		1,470	60	60	194	1,835	25	1.0	
GRAND TOTALS		2,940	120	120	388	3,670	50	2	

EARTHWORK SUMMARY

From/To Station	Location	Common Excavation (1) <small>(item # 205.0100)</small>		Salvaged/Un usable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow
		Cut (2)	EBS Excavation (3)				Factor 1.20			<small>(item #208.0100)</small>
08+75 to15+11.20	N. Granville Rd.	780	0	140	640	425	510	130	270	
Totals		780	0	140	640	425	510	130	270	0
Total Common Exc		780								

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) No EBS is anticipated
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut - Salvaged/Unusuable Pavement Material
- 13) Expanded Fill. Factor = 1.2
- 14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

2500-00-70

CATEGORY 010

TRAFFIC CONTROL ITEMS

	ITEMS	STAGE 1		TOTAL	
		EACH	DAY		
#	TRAFFIC CONTROL BARRICADES TYPE III (643.0420)	14	798	798	DAY
##	TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING) (643.0705)	28	1,596	1,596	DAY
# ALL DRUMS HAVE ONE STEADY BURNING YELLOW LIGHT (LIGHTS ARE TO BE PAID FOR SEPERATLY UNDER THEIR APPROPRIATE BID ITEM)					
## ALL TYPE III BARRICADES HAVE TWO (2) FLASHING YELLOW LIGHTS (LIGHTS ARE TO BE PAID FOR SEPERATLY UNDER THEIR APPROPRIATE BI					

2500-00-70

CATEGORY 010

TRAFFIC CONTROL SIGNS

CATEGORY 010				
ITEM	SIZE	DESCRIPTION	STAGE 1	TOTAL
W020-1	48"x48"	"ROAD WORK AHEAD"	1	1
W08-6 (MOD.1)	48"x48"	"TRUCK ENTRANCE"	3	3
W16-9P	24"x12"	MERGE LEFT	2	2
TRAFFIC CONTROL SIGNS		643.0900 TOTAL	6	6
			342 DAY	342 DAY
			"W0" SIGNS ARE THE SAME AS "W" SIGNS. EXCEPT THE BACKGROUND IS ORANGE.	

NOTE:

SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTARTION (FHWA) MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS OTHERWISE PROVIDED IN THE PLAN.

TRAFFIC CONTROL

2500-00-70

CATEGORY 010

ITEM NO.

UNIT PAY

TRAFFIC CONTROL

643.0100

EACH

<u>LOCATION</u>	
UNDISTRIBUTED	1
GRAND TOTALS	1

MISCELLANEOUS ITEMS

2500-00-70

CATEGORY 010

ITEM NO.

UNIT PAY

FINISHING ROADWAY

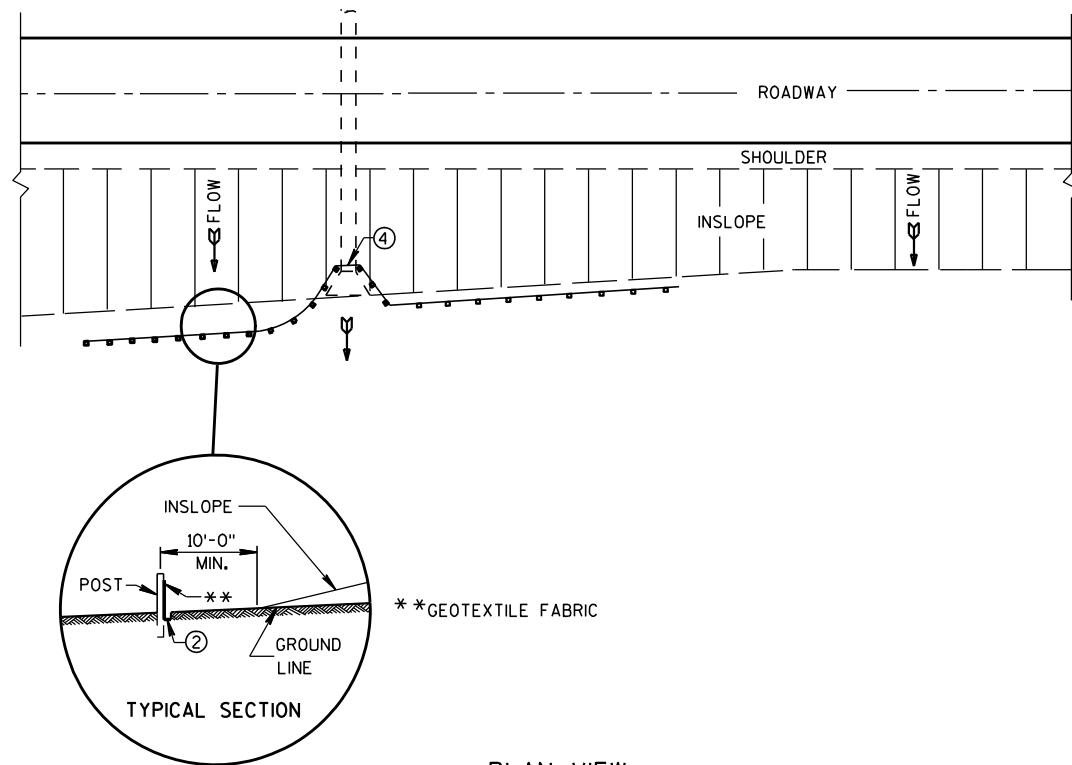
213.0100

EACH

<u>LOCATION</u>	
UNDISTRIBUTED	1
GRAND TOTALS	1

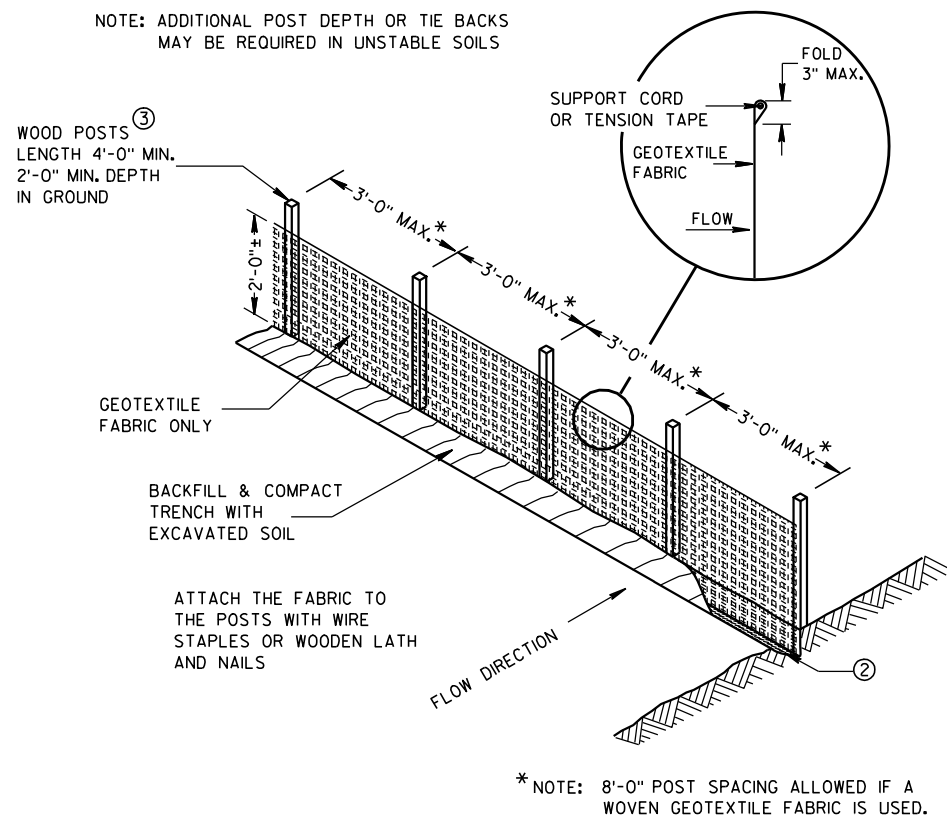
Standard Detail Drawing List

08E09-06	SI LT FENCE
08E11-02	TURBI DITY BARRI ER
08E14-01	TRACKI NG PAD

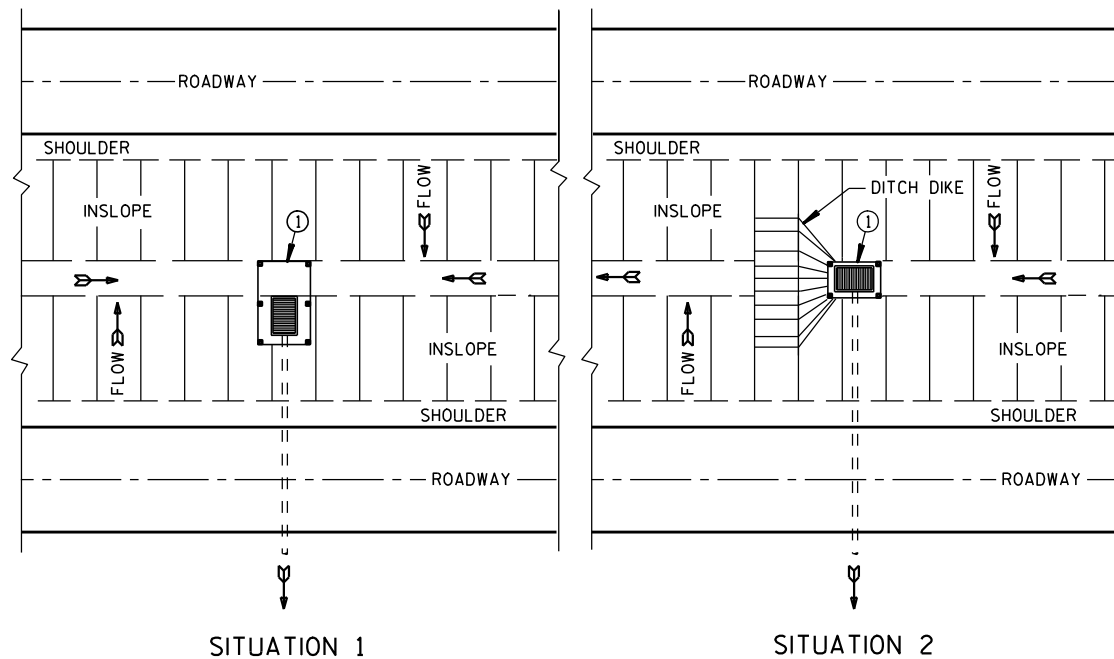


TYPICAL APPLICATION OF SILT FENCE

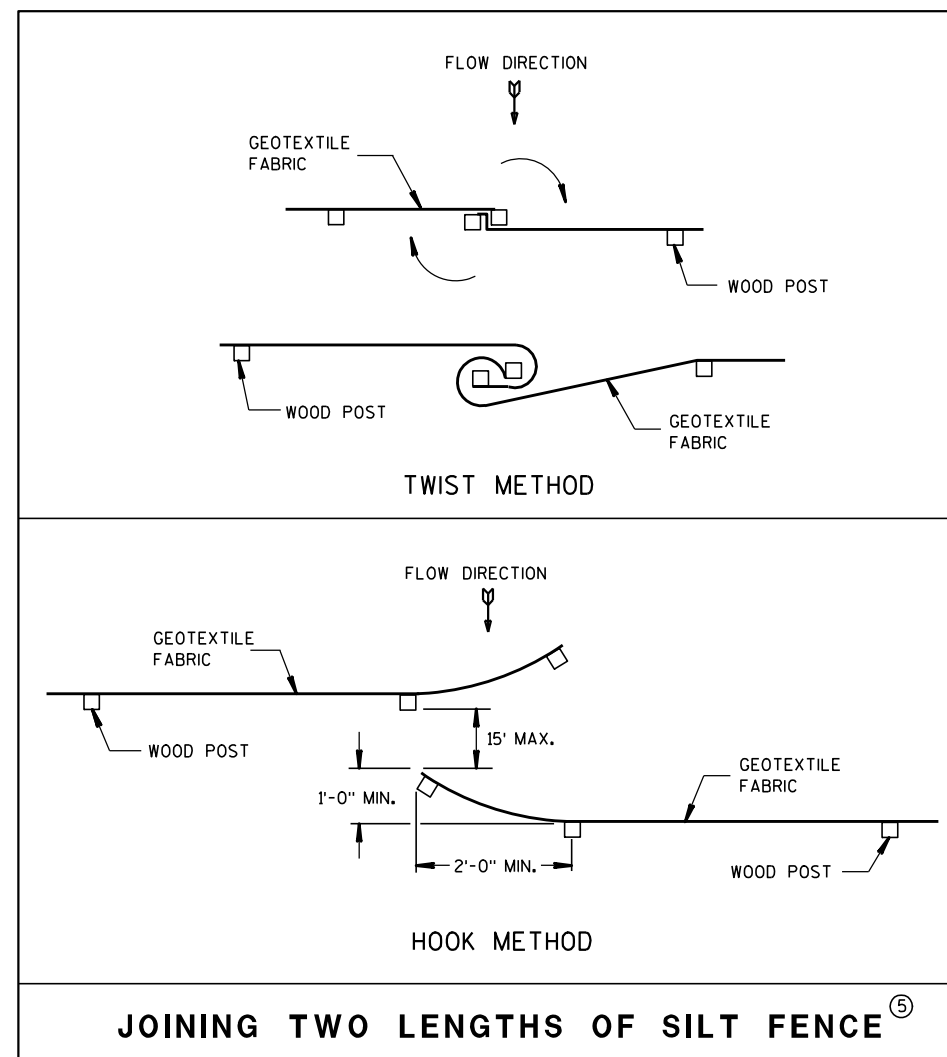
NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS



SILT FENCE



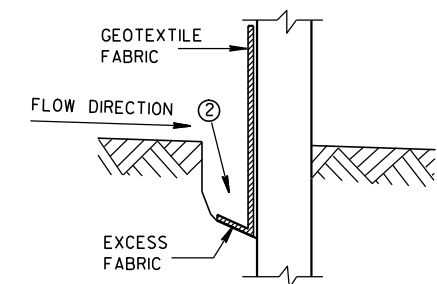
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS



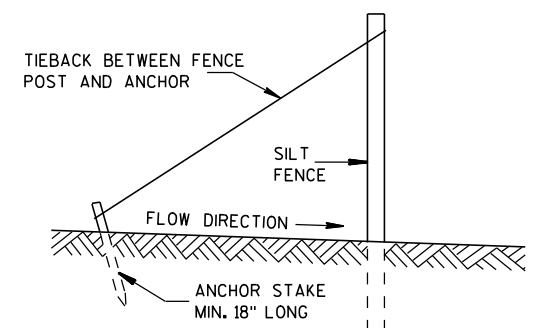
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

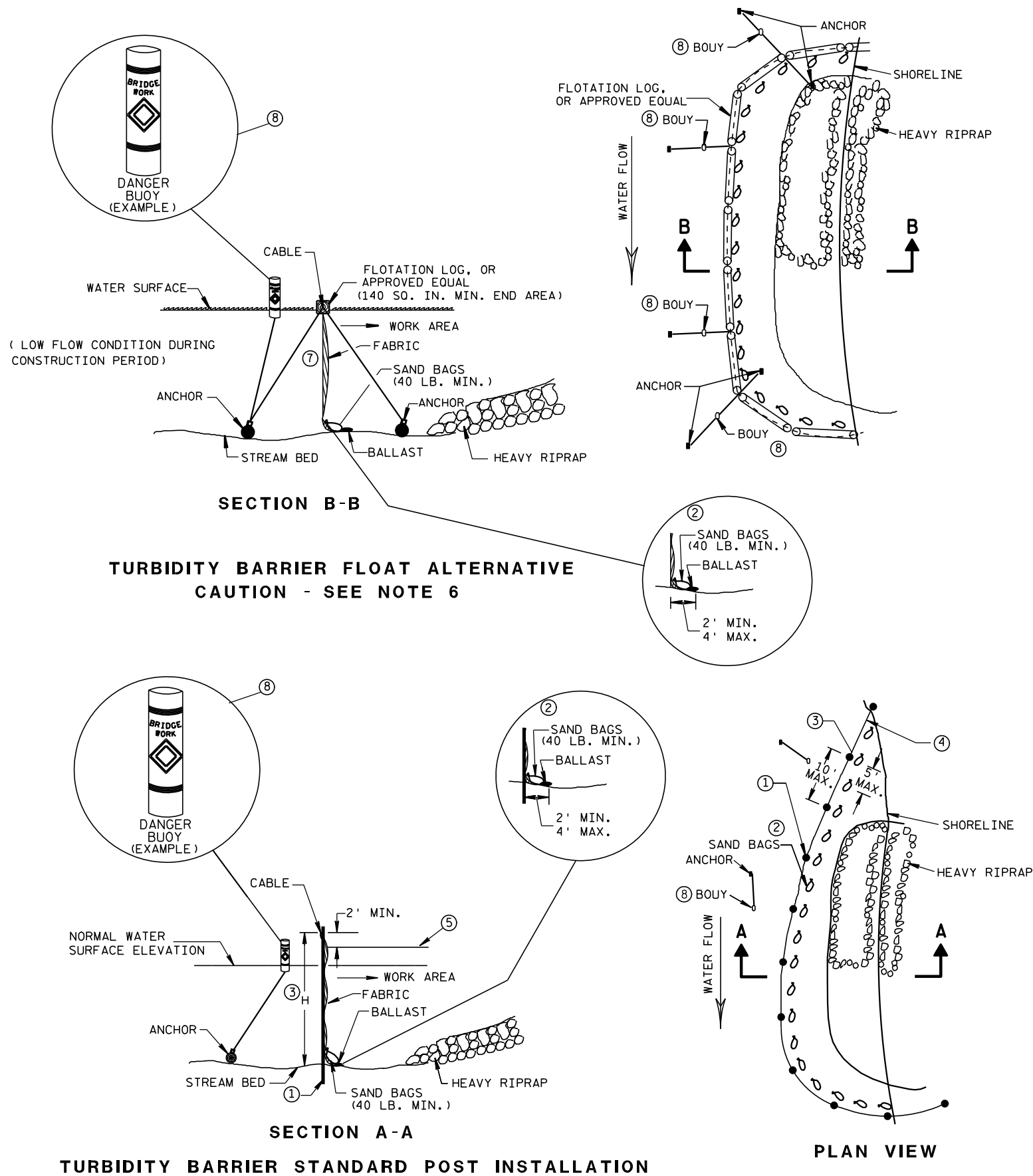
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-29-05
DATE

FHWA

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

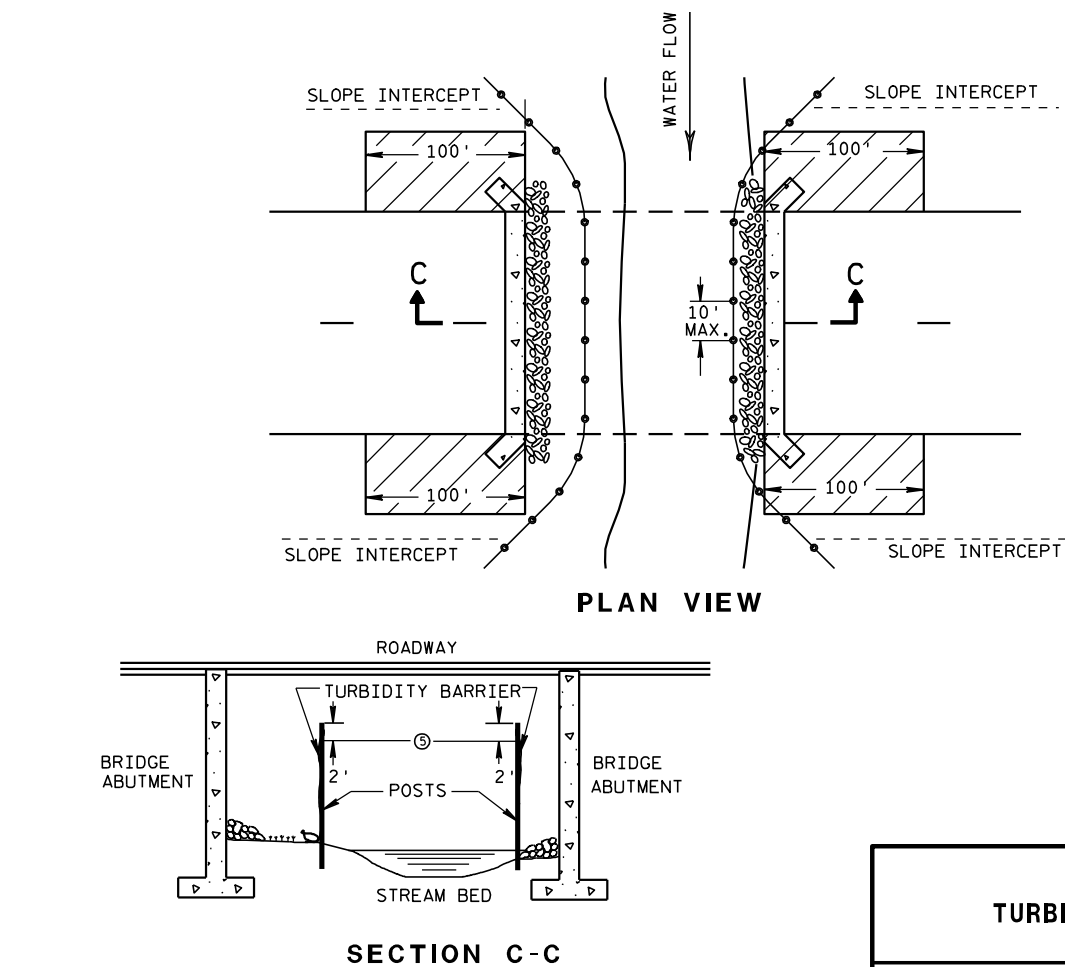


GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

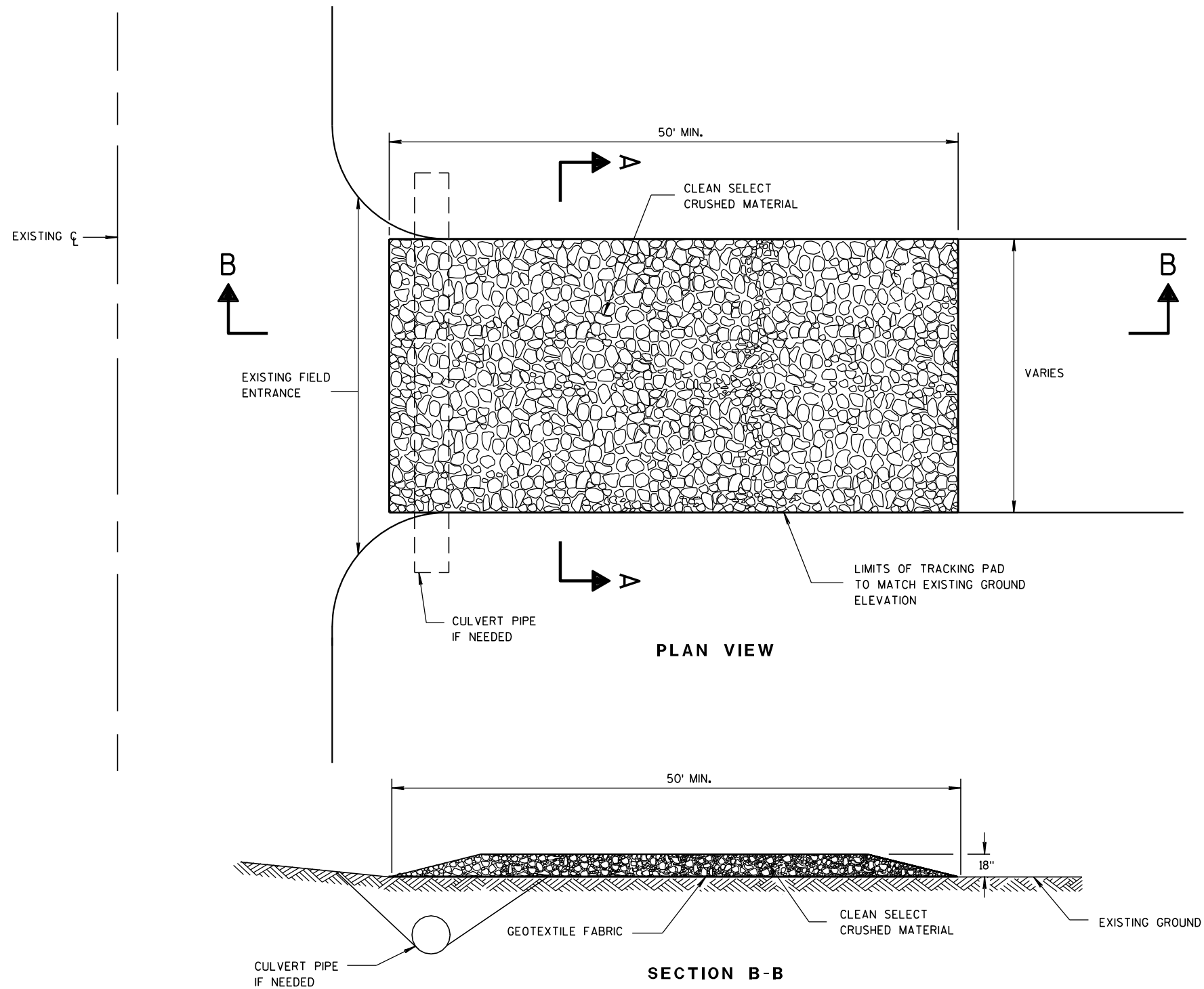
TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- ② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- ③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- ④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- ⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- ⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- ⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- ⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/04/02 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



TRACKING PAD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

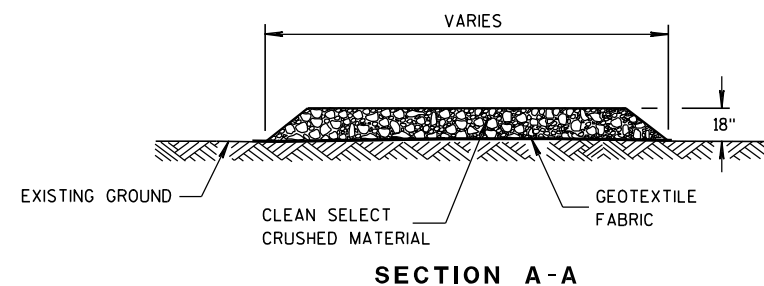
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011

DATE

FHWA

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

ENGINEER

PROPERTY OWNER
MILWAUKEE COUNTY
109-9994-121

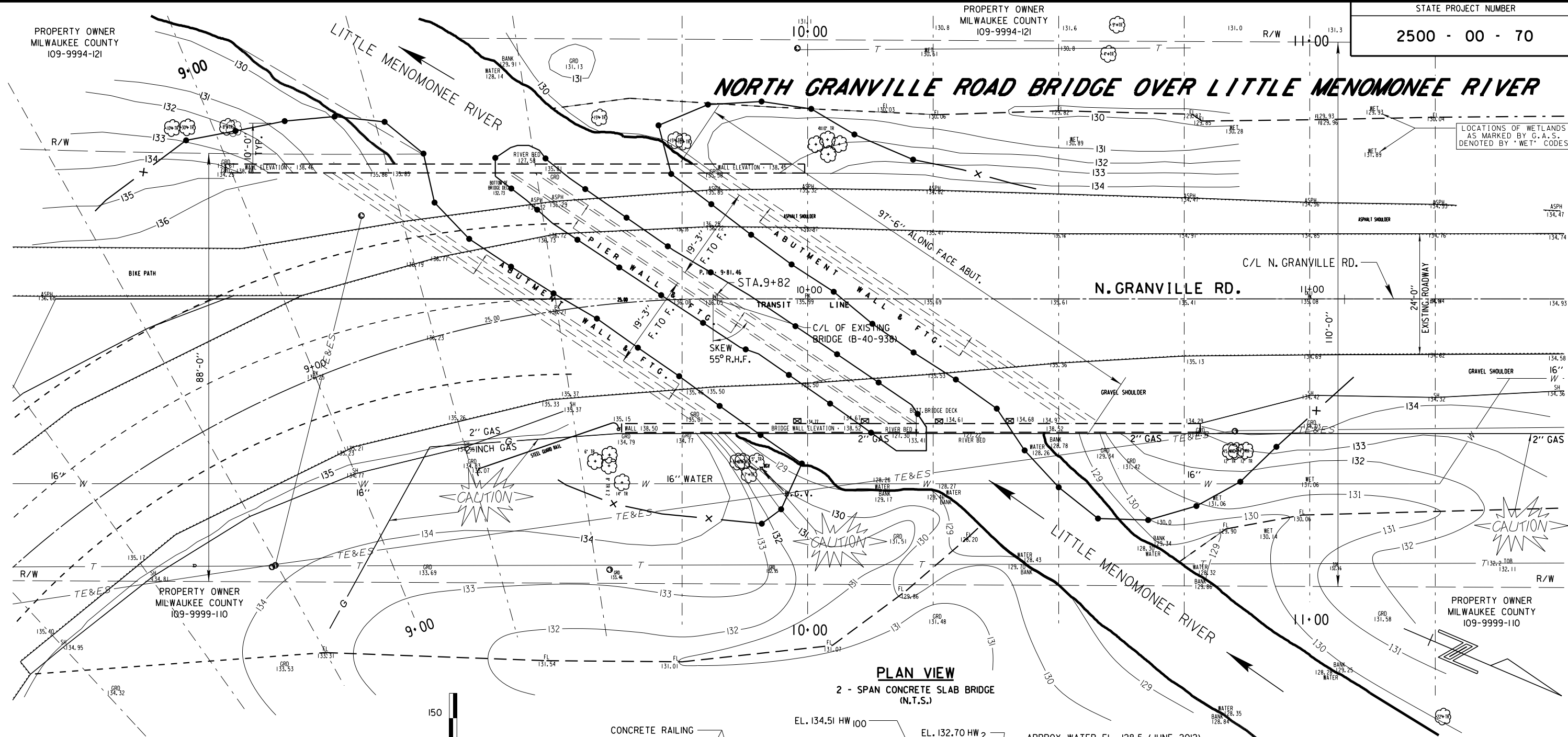
PROPERTY OWNER
MILWAUKEE COUNTY
109-9994-121

STATE PROJECT NUMBER

2500 - 00 - 70

NORTH GRANVILLE ROAD BRIDGE OVER LITTLE MENOMONEE RIVER

LOCATIONS OF WETLANDS
AS MARKED BY G.A.S.
DENOTED BY "WET" CODES



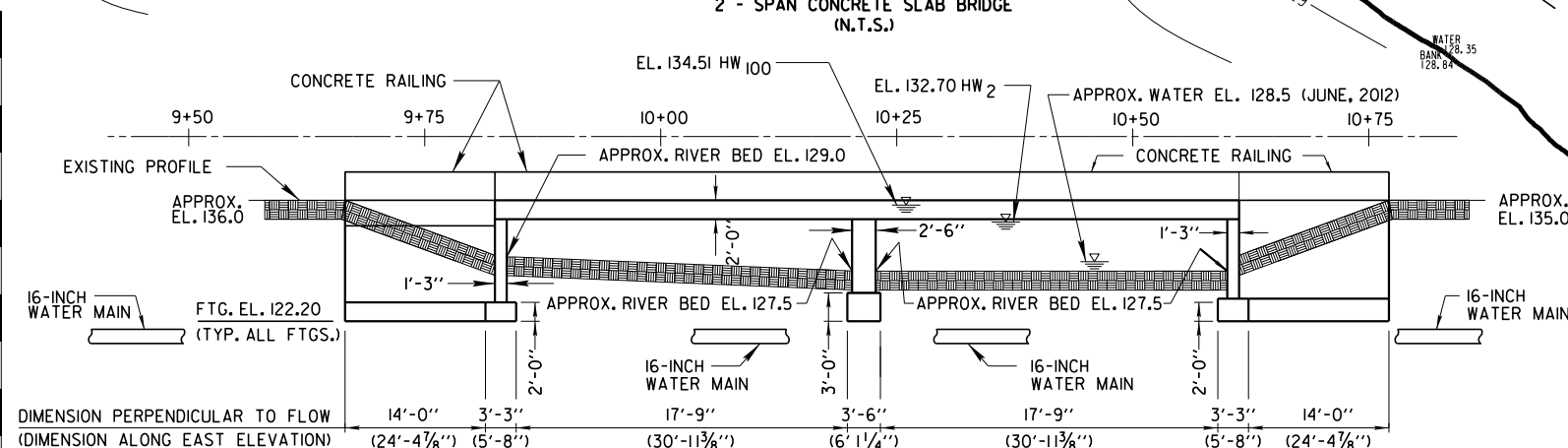
PLAN VIEW

2 - SPAN CONCRETE SLAB BRIDGE
(N.T.S.)

HORIZONTAL CENTERLINE CURVE DATA

P.T. = 9+81.46
Δ = 61°18'40"
D = 27°22'16"
R = 209.33'
T = 124.07'
L = 224.00'
E = 30.01'
LC = 213.46'

CITY OF MILWAUKEE CONTACT
CRAIG LIBERTO: (414-286-3294)
WISDOT BRIDGE OFFICE CONTACT
WILLIAM DREHER: (608-266-8489)



EAST ELEVATION

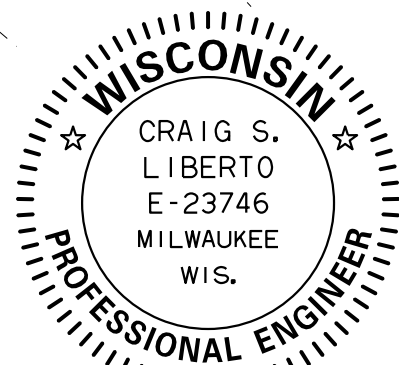
(LOOKING WEST)
2 - SPAN CONCRETE SLAB BRIDGE
(N.T.S.)

— X — INDICATES SILT FENCE
— ● — INDICATES TURBIDITY BARRIER

B.M. - CHISELED SQUARE 1'
FROM NORTH END OF EAST
BRIDGE WALL ELEV. = 138.50

LIST OF DRAWINGS

1. GENERAL PLAN / SITE PLAN EXISTING BRIDGE
2. GENERAL PLAN / SITE PLAN BRIDGE REMOVED
3. ESTIMATE OF QUANTITIES



Craig S. Liberto
1/29/14

NO.	DATE	REVISION	BY
ORIGINAL PLANS PREPARED BY CITY OF MILWAUKEE DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE SERVICES DIVISION			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED	William C. Dreher	DATE	02/25/14
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-40-938			
N. GRANVILLE RD. OVER LITTLE MENOMONEE RIVER			
COUNTY	MILWAUKEE	TOWN/CITY/VILLAGE	MILWAUKEE
DESIGN SPEC. AASHTO STD. SPEC. 2003			
DESIGNED BY	CK'D.	DRAWN	G.J.R.
R.V.K.	BY	J.P.H.	PLANS
GENERAL PLAN/ SITE PLAN EXISTING BRIDGE			
SHEET 1 OF 3			

W:\STR\B0407\PLANS\ 02.GENERAL_PLANDGN 10-28-2013

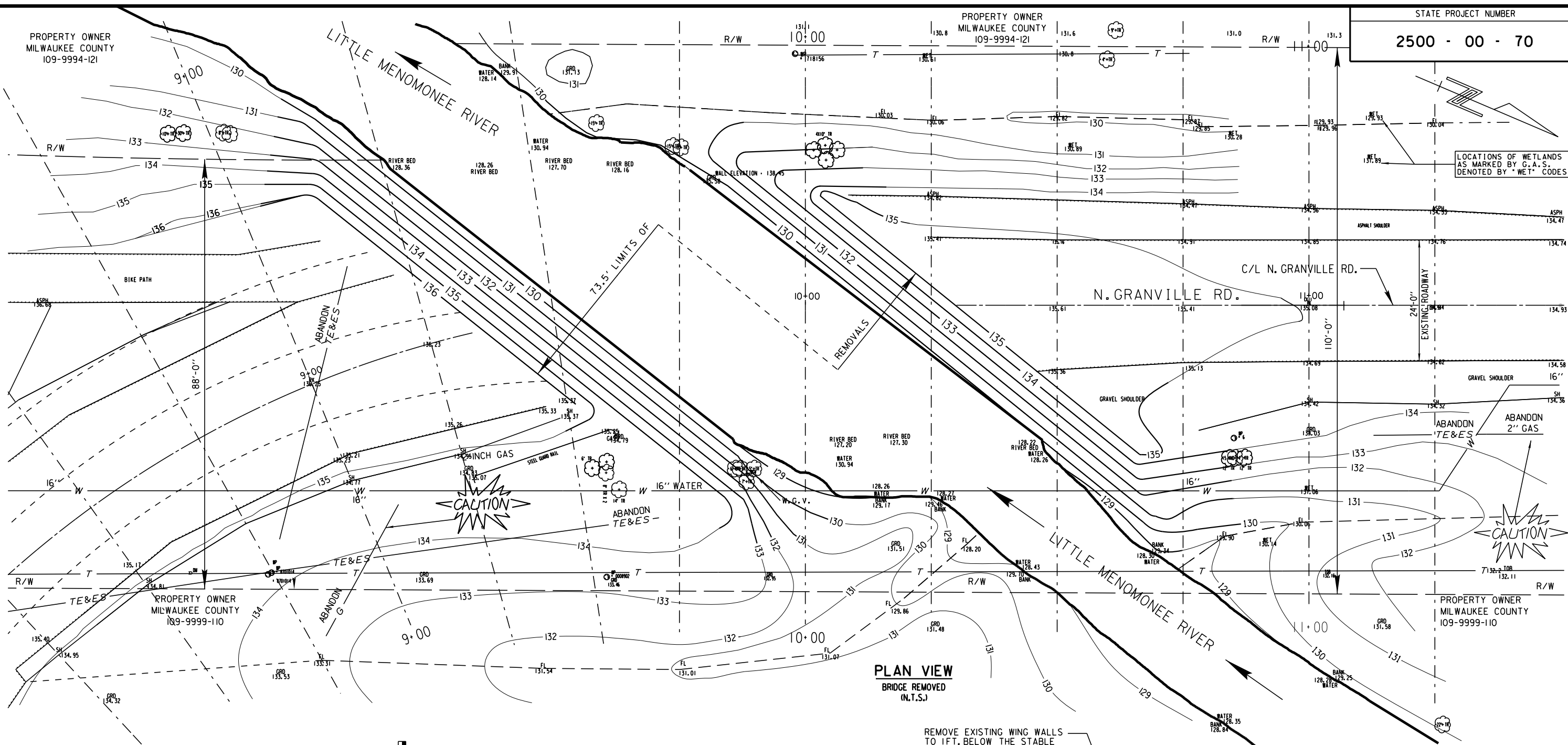
PROPERTY OWNER
MILWAUKEE COUNTY
109-9994-121

PROPERTY OWNER
MILWAUKEE COUNTY
109-9994-121

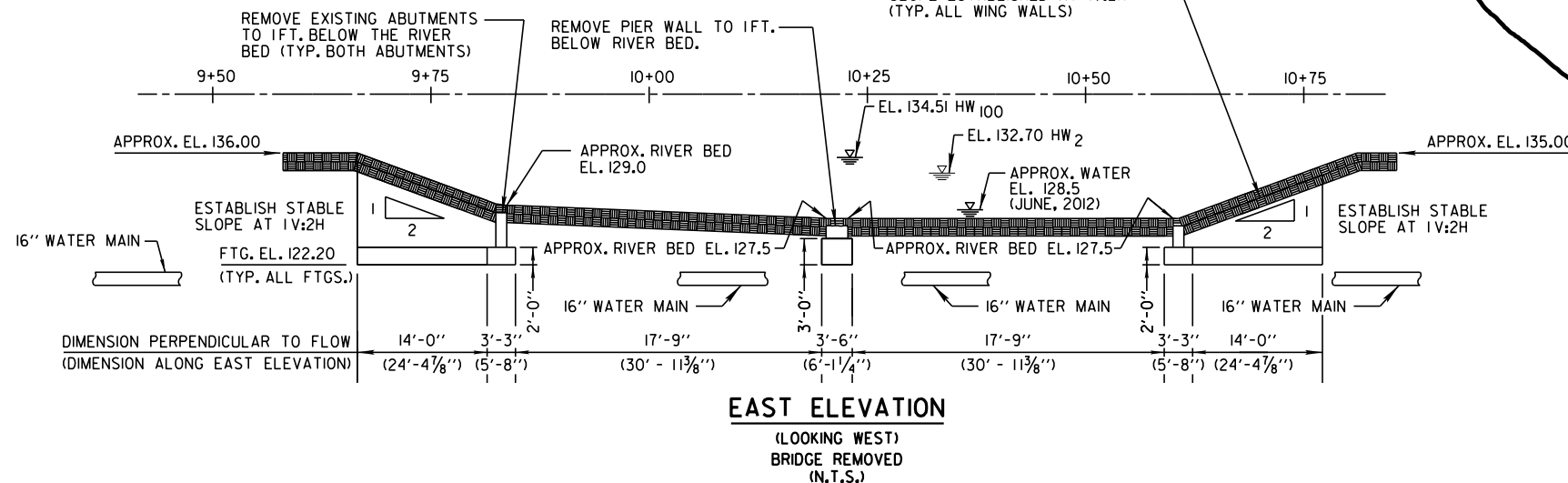
STATE PROJECT NUMBER

2500 - 00 - 70

LOCATIONS OF WETLANDS
AS MARKED BY G.A.S.
DENOTED BY "WET" CODES



REMOVE EXISTING WING WALLS
TO 1 FT. BELOW THE STABLE
SLOPE ESTABLISHED AT 1V:2H
(TYP. ALL WING WALLS)



LEGEND

— 132 — EXISTING CONTOUR LINES
— **132** — NEW CONTOUR LINES (BOLD)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-40-938			
DRAWN BY		R.V.K.	PLANS CK'D. J.P.H.
GENERAL PLAN/ SITE PLAN BRIDGE REMOVED			SHEET 2 OF 3

W:\STR\B0407\PLANS\ 03. QUANTITIES.DGN 1-29-2014

GENERAL NOTES

DETAILS, MATERIALS AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION EDITION OF 2014 EXCEPT AS OTHERWISE NOTED.

STATIONS AND ALL ELEVATIONS ARE IN FEET.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS, AND FIELD MEASUREMENTS.

ELEVATIONS ARE REFERRED TO CITY OF MILWAUKEE DATUM.

DRAWINGS SHALL NOT BE SCALED.

LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

SEE ROADWAY PLANS FOR EXISTING AND PROPOSED UTILITY LOCATIONS.

ESTIMATE OF QUANTITIES

ITEM NO.	BID ITEM	UNIT	S. WALL	CENTER PIER	N. WALL	SUPER.	RAILING	WING WALLS	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 9+82.0	LS							1
205.0501.S	EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	TON	71	142	71			48	332

HYDRAULIC DATA

HW₁₀₀ 100-YEAR FLOOD STAGE = 134.51 FT.

HW₂ 2-YEAR FLOOD STAGE = 132.70 FT.

ELEVATIONS

CITY OF MILW. VERT. DATUM = 580.60 (NGVD 1929)
B.M.: CHISLED SQUARE 1 FT. FROM N. END OF EAST BRIDGE WALL EL. 138.50

UTILITIES

NOTE: PRIOR TO START OF CONSTRUCTION WE ENERGIES GAS CONDUIT TO BE ABANDONED. SEE PROJECT SPECIFICATIONS.

STATE PROJECT NUMBER
2500 - 00 - 70

BRIDGE REMOVAL AND CONSTRUCTION NOTES

EXISTING BRIDGE PLANS ARE ON FILE IN CITY OF MILWAUKEE INFRASTRUCTURE SERVICES DIVISION'S STRUCTURAL DESIGN UNIT, ROOM 907, FRANK P. ZEIDLER MUNICIPAL BUILDING, 841 N. BROADWAY, MILWAUKEE, WI 53202 PHONE (414)-286-3294.

AVOID PERMANENT OR LONG-TERM DEBRIS DEPOSITION IN WATERWAY. LIMIT MATERIAL DEPOSITION WITHIN WATERWAY. BRIDGE DECK REMOVAL IN SECTIONS IS PREFERRED TO KNOCKING IT DOWN INTO WATERWAY. MAINTAIN UNIMPEDED NATURAL STREAM FLOW THROUGH STRUCTURE TO MAINTAIN STREAM ENVIRONMENT INTEGRITY.

REMOVE EXISTING BRIDGE DECK B-40-938 OVER LITTLE MENOMONEE RIVER IN LARGE SECTIONS & CONFORMING TO CONTRACTOR'S APPROVED STRUCTURE REMOVAL & CLEAN-UP PLAN. DURING SUPERSTRUCTURE REMOVAL, PREVENT LARGE PIECES AND MINIMIZE SMALL PIECES FROM ENTERING WATERWAY.

PROPOSED IMPROVEMENTS

PROJECT CONSISTS OF REMOVAL OF EXISTING BRIDGE DECK AND UPPER PORTIONS OF SUBSTRUCTURE. ABUTMENTS SHALL BE REMOVED TO DEPTH OF 1 FT. BELOW EXISTING RIVER BANKS. PIER SHALL BE REMOVED TO 1 FT. BELOW EXISTING RIVER BED. STABLE SIDE SLOPES SHALL BE ESTABLISHED AT 1V: 2H. WING WALLS SHALL BE REMOVED TO DEPTH OF 1 FT. BELOW ESTABLISHED STABLE SLOPE.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-40-938			
		DRAWN BY K. P. S.	PLANS CK'D. R. V. K. J. P. H.
ESTIMATE OF QUANTITIES		SHEET 3 OF 3	

STATION	CUT C.Y.	FILL (-) C.Y.	LARGEST CUT IN FEET	LARGEST FILL (-1) IN FEET
8+50	0	0		
9+00	54	27	1.00	0.42
9+50	86	43	1.00	0.42
10+00	0	0		
10+50	37	25	1.00	0.42
11+00	74	49	1.00	0.42
11+50	74	49	1.00	0.42
12+00	74	48	1.00	0.42
12+50	61	45	1.00	0.42
13+00	33	42	0.42	0.49
13+50	34	42	0.42	0.49
14+00	34	42	0.42	0.49
14+50	34	42	0.42	0.49
15+00	34	42	0.42	0.49
15+11.20	11	14	0.42	0.49
TOTAL	640	510		



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>