STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

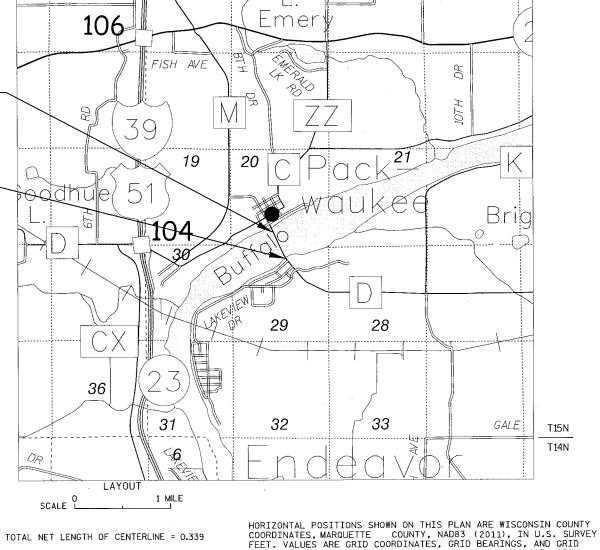
IH 39 - CTH K

(LAKE STREET TO FREEDOM ROAD)

CTH D

MARQUETTE COUNTY

STATE PROJECT NUMBER 6711-00-70



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2017349 6711-00-70

> ACCEPTED FOR COUNTY OF MARQUETTE

TITLE OF OFFICIAL





STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor Designer

MSA PROFESSIONAL SERVICES, INC. MSA PROFESSIONAL SERVICES, INC.

CEDAR CORPORATION

PLOT DATE: 12/29/2016 9:41 AM

PLOT BY : BOBBI MAXWELL

PLOT NAME :

DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

|2

GENERAL NOTES

MISCELLANEOUS

THE 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.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE U.S.G.S DATUM NAVD 88 (2007)

WHEN THE QUANTITY OF ITEMS OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

REMOVALS

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

GRADING AND EROSION CONTROL

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, ARE TO BE FERTILIZED, PERMANENT SEEDED OR TEMPORARILY SEEDED AND EMAT PLACED AS DIRECTED BY THE ENGINEER.

EXCAVATION BELOW SUBGRADE (EBS) WHICH IS NOT INDICATED ON THE CROSS SECTIONS AND WHICH IS REQUIRED BY THE ENGINEER SHALL BE MEASURED AND PAID FOR AS COMMON EXCAVATION. EBS IS NOT USED TO BALANCE YARDAGE.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER SHALL DETERMINE THE EXACT LOCATION OF EROSION CONTROL ITEMS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. THE CONTRACTOR SHALL REMOVE ITEMS AT ENGINEER'S DIRECTION.

NO EQUIPMENT OR MATERIALS SHALL BE STORED ADJACENT TO, NOR IMPACT ANY WETLANDS OR WATERWAYS.

FILL EXPANSION IS ESTIMATED AT 1.25.

<u>PAVING</u>

CURVE DATA BASED ON ARC DEFINITION.

HMA WEIGHT CALCULATIONS BASED ON 110 LBS/SY/IN.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, BIKE, OR PARKING LANE.

ORDER OF TYPICAL SECTION & DETAIL SHEETS

- 1. GENERAL NOTES
- 2. EXISTING TYPICAL SECTIONS
- 3. FINISHED TYPICAL SECTIONS
- 4. CONSTRUCTION DETAILS
- 5. EROSION CONTROL
- 6. TRAFFIC CONTROL, DETOUR
- 7. ALIGNMENT DIAGRAM
- 8. SUPERELEVATION DIAGRAM

UTILITIES

GAS:
WE ENERGIES
ATTN: TRAVIS KAHL
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
715-421-7256
TRAVIS.KAHL@WE-ENERGIES.COM

FIBER OPTIC:
MARQUETTE-ADAMS TELEPHONE COOPERATIVE
ATTN: JASON SENGBUSCH
113 NORTH OXFORD STREET
OXFORD, WI 53952
608-586-7070
JSENGBUSCH@MAADTELCO.COM

* NOT A DIGGERS HOTLINE MEMBER



www.DiggersHotline.com

DNR LIAISON

WISCONSIN DEPARTMENT OF
NATURAL RESOURCES
ATTN: BOBBI JO FISCHER
WAUTOMA SERVICE CENTER
427 EAST TOWER DRIVE, SUITE 100
WAUTOMA, WI 54982
920-787-3015
BOBBI.FISCHER@WISCONSIN.GOV

MSA DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: QUIRIN KLINK, PE 1230 SOUTH BOULEVARD BARABOO, WI 53919 608-355-8890 QKLINK@MSA-PS.COM MARQUETTE COUNTY HIGHWAY CONTACT

MARQUETTE COUNTY HIGHWAY DEPARTMENT ATTN: RANDY RAVENSCROFT, HIGHWAY COMMISSIONER 328 UNDERWOOD AVE MONTELLO, WI 53949 608-297-3071 RRAVENSCROFT@CO.MARQUETTE.WI.US

PROJECT NO:6711-00-70

HWY: CTH D

COUNTY: MARQUETTE

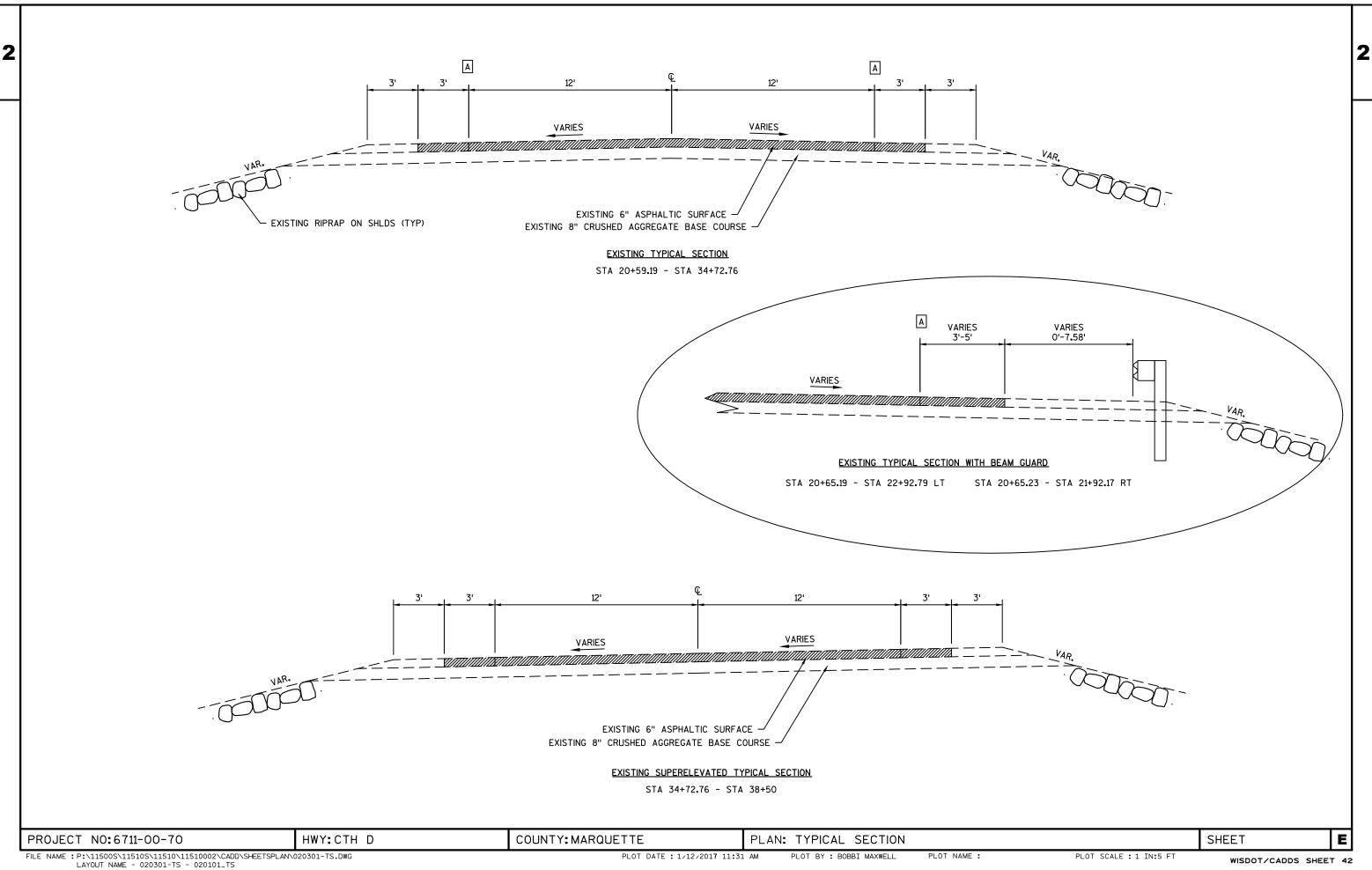
GENERAL NOTES

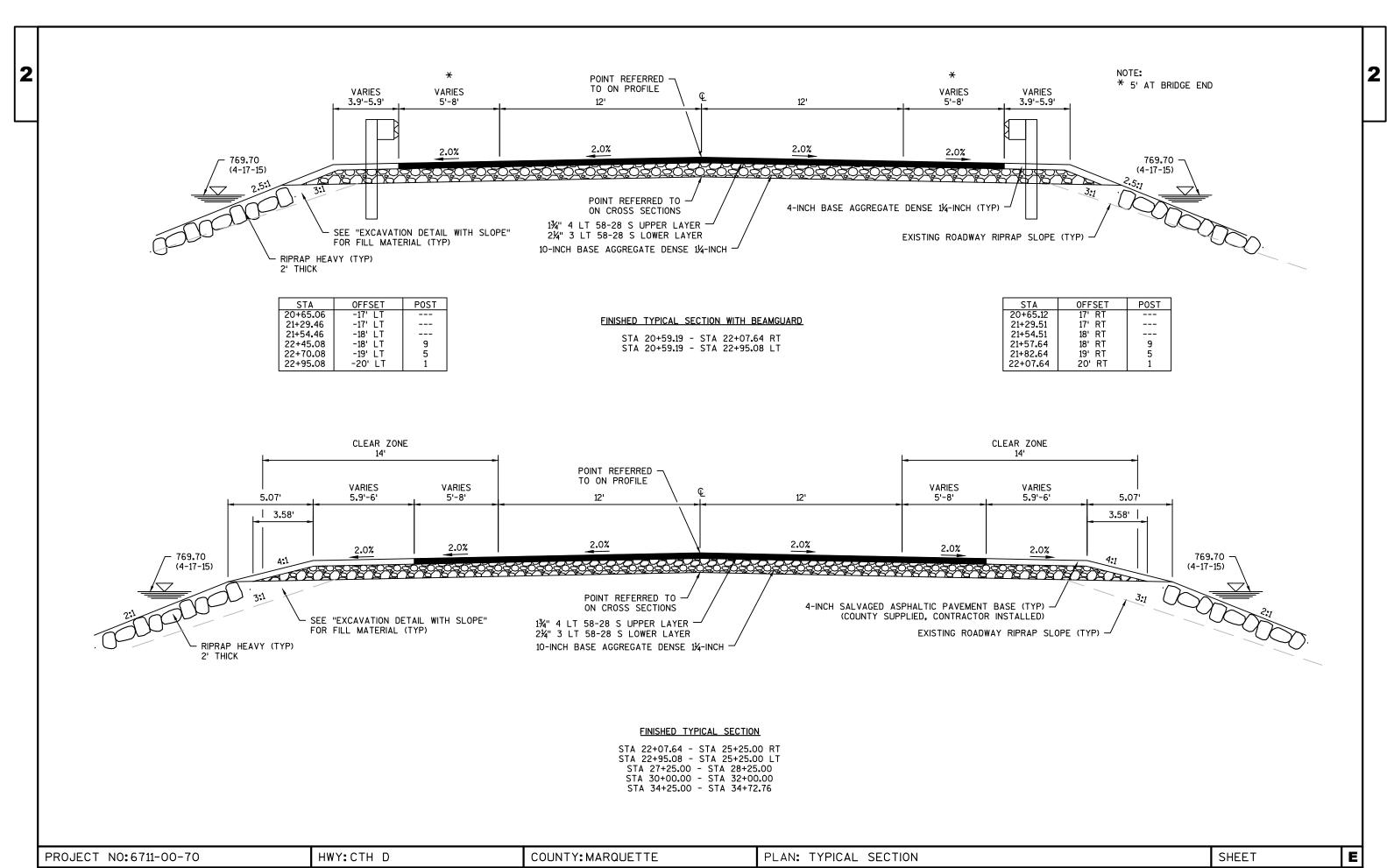
PLOT SCALE : 0.100015

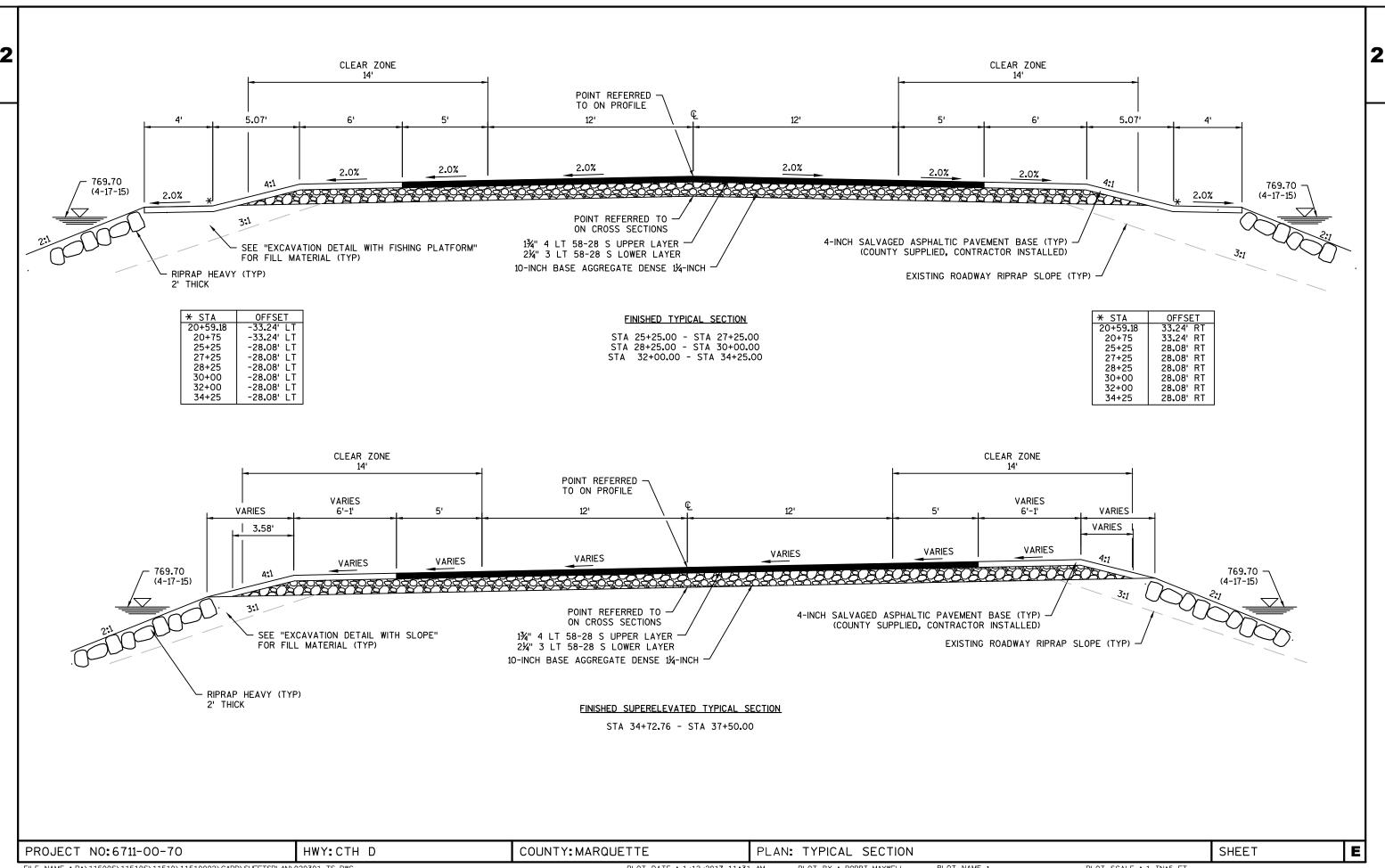
SHEET

E

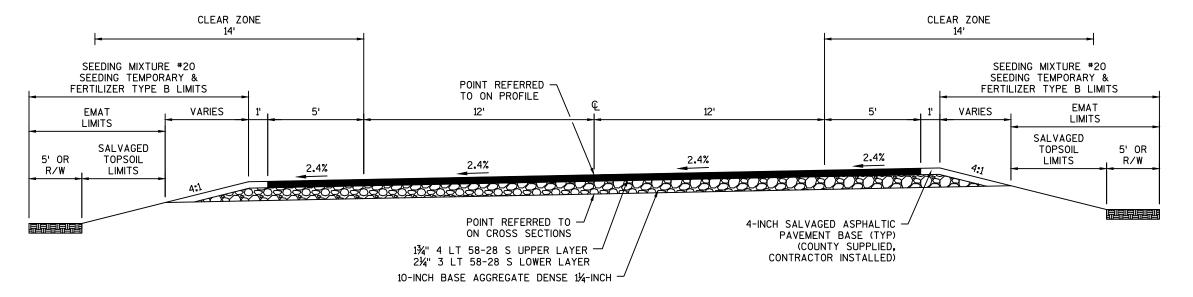
END PROJECT 6711-00-70 7 STA 38+50 BUFFALO LAKE WETLANDS TYPE M BEGIN PROJECT 6711-00-70 STA 20+59.19 WETLANDS TYPE AB WETLANDS TYPE AB PROPOSED FISHING PLATFORMS (TYP) WETLANDS TYPE AB - EXISTING BRIDGE B-39-0014 NO WORK ON BRIDGE WETLANDS TYPE AB -EXISTING PIPES TO REMAIN (TYP) WETLANDS TYPE M BUFFALO LAKE PROJECT NO:6711-00-70 COUNTY: MARQUETTE PROJECT OVERVIEW SHEET E HWY: CTH D PLOT BY : BOBBI MAXWELL PLOT NAME :







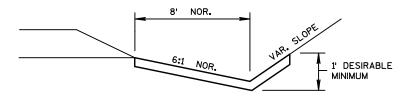




FINISHED SUPERELEVATED TYPICAL SECTION

STA 37+50 - STA 38+50

COUNTY: MARQUETTE SHEET E PROJECT NO:6711-00-70 HWY: CTH D PLAN: TYPICAL SECTION PLOT BY : BOBBI MAXWELL



EROSION MAT DETAIL FOR DITCHES

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A				В		С			D		
	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		(PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP- TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
TURF	.24	.20	.30	.25	.20	•33	.20	.30	.31	•21	.32	.40
SIDE SLOPE-			.25			.27			.28			.30
TURF			.32			.34			.36			.38
PAVEMENT:												
ASPHALT						.7095						
CONCRETE				•		.8095	•					
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS,	SHOULDE	RS				.4060						

TOTAL PROJECT AREA = 3.05 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.05 ACRES

SHEET PROJECT NO:6711-00-70 HWY: CTH D COUNTY: MARQUETTE E CONSTRUCTION DETAILS PLOT BY : BOBBI MAXWELL

4-INCH SALVAGED ASPHALTIC PAVEMENT BASE -(COUNTY SUPPLIED, CONTRACTOR INSTALLED) FISHING **PLATFORM** TOP OF WATER 769.70 (4-17-15) VARIES 15'-25' TURBIDITY BARRIER ±0.5'-2' PIT RUN EXISTING HEAVY RIPRAP (TO REMAIN) RIPRAP HEAVY 2' THICK OVER GEOTEXTILE FABRIC TYPE HR EXISTING LAKE BED 4.47' NOR. SHOT ROCK -RIPRAP HEAVY 2' THICK OVER GEOTEXTILE FABRIC TYPE HR EXCAVATION LIMITS (INCIDENTAL TO SHOT ROCK & RIPRAP ITEMS)

EXCAVATION DETAIL WITH FISHING PLATFORM

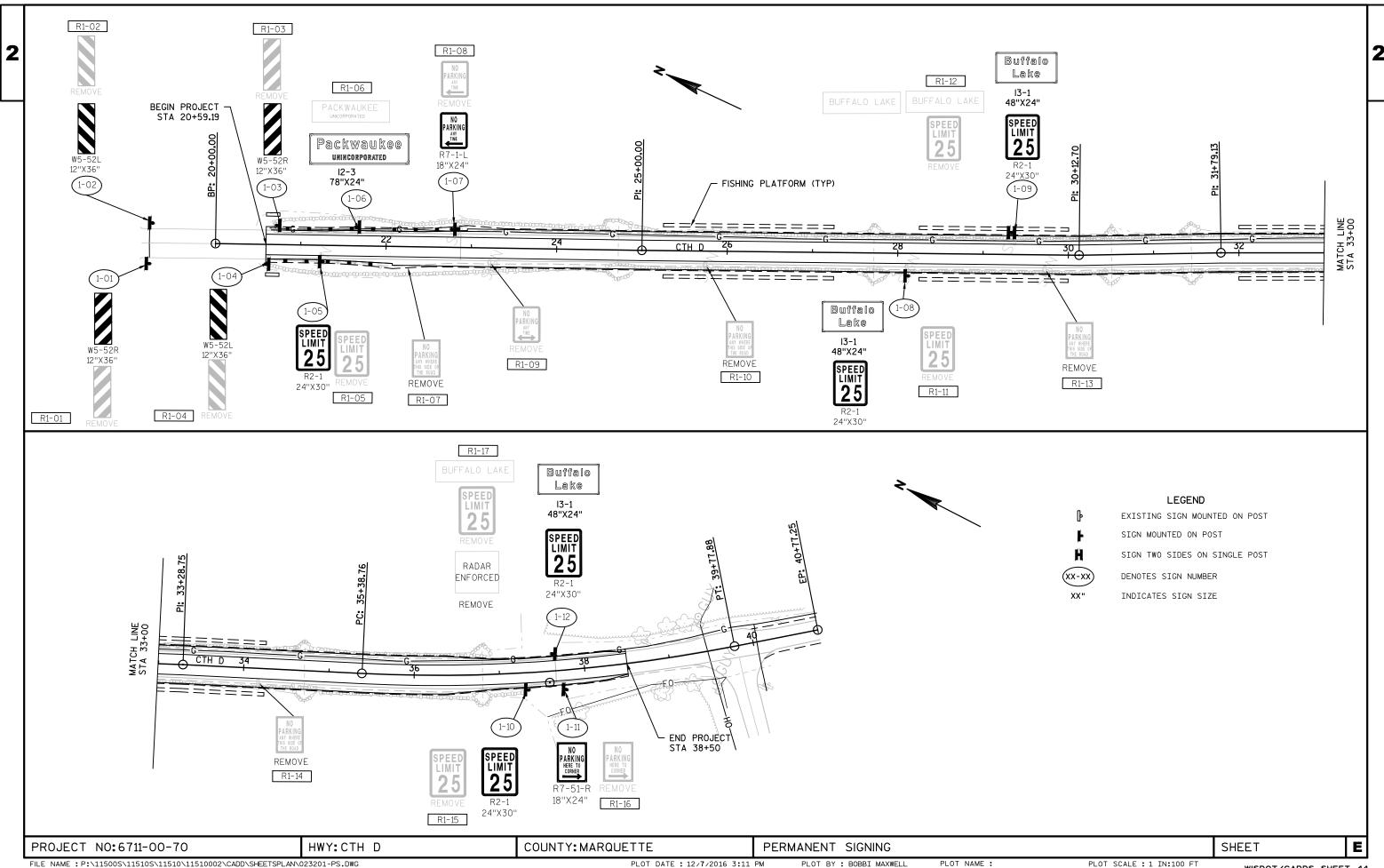
4-INCH SALVAGED ASPHALTIC PAVEMENT BASE -(COUNTY SUPPLIED, CONTRACTOR INSTALLED) TOP OF WATER 769.70 (4-17-15) VARIES 15'-25' TURBIDITY BARRIER ±0.5'-2' PIT RUN EXISTING HEAVY RIPRAP (TO REMAIN) EXISTING LAKE BED 4.47' NOR. SHOT ROCK RIPRAP HEAVY 2' THICK OVER GEOTEXTILE FABRIC TYPE HR EXCAVATION LIMITS (INCIDENTAL TO SHOT ROCK & RIPRAP ITEMS)

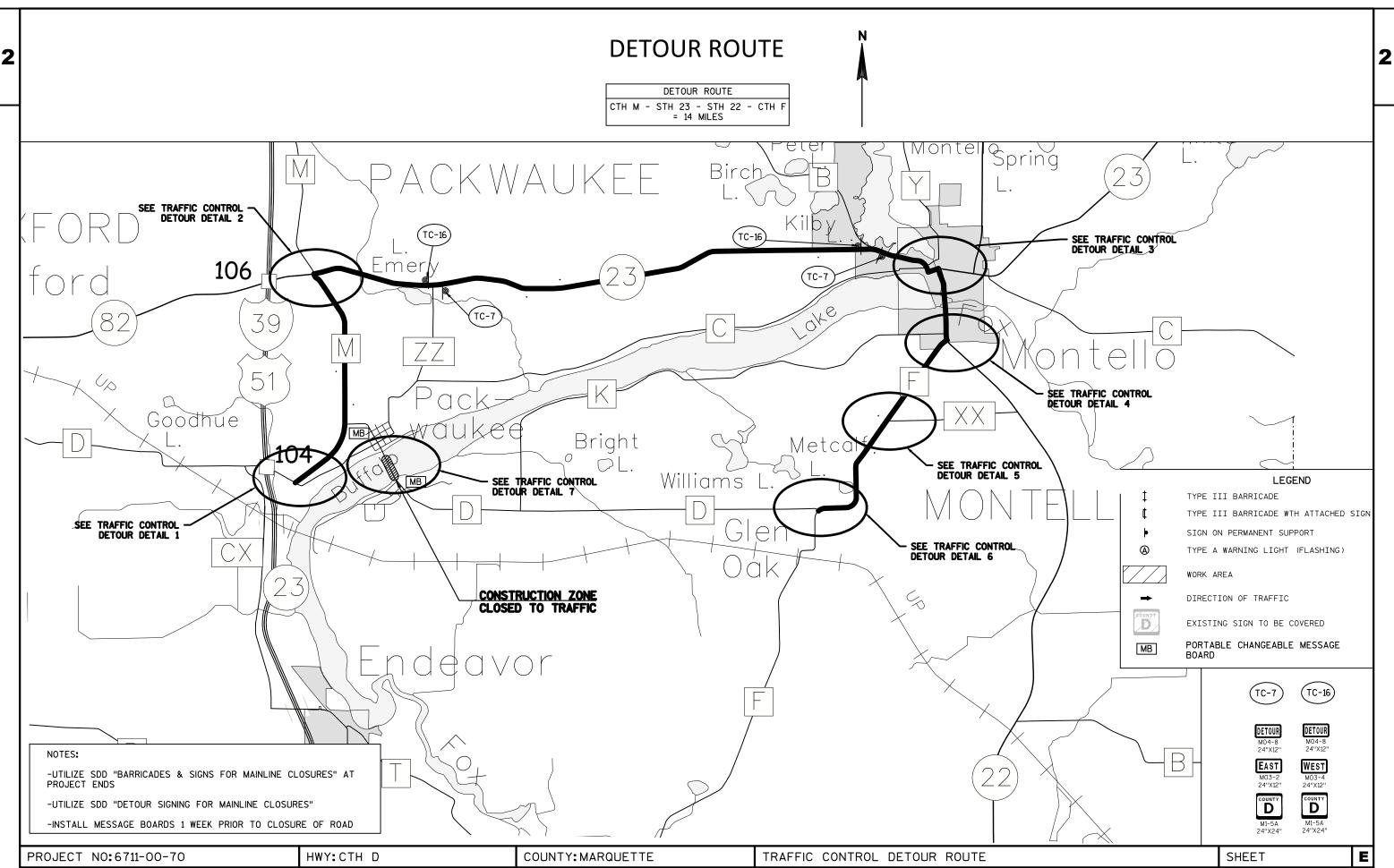
EXCAVATION DETAIL WITH SLOPE

** FILL VOIDS IN RIPRAP HEAVY WITH STONE MATERIAL FOR TRAVEL CORRIDOR INTERSTITIAL SPACE, THEN COVER WITH BASE AGGREGATE DENSE 14-INCH. FILL & COVER ENTIRE SURFACE TO APROX. 6" BELOW WATER EDGE.

***PLACE DANGER BUOYS ACCORDING TO SDD "TURBIDITY BARRIER" AT 100 FOOT SPACING OR AT THE FINAL SPACING NOTED IN THE APPROVED NAVIGATIONAL BUOY PERMIT, OUTSIDE OF THE TURBIDITY BARRIER ALONG EACH SIDE OF THE CAUSEWAY WORK AREA. ALL COSTS FOR CONSTRUCTING, INSTALLING, AND MAINTAINING THE BUOYS ARE INCIDENTAL TO THE "TRAFFIC CONTROL" BID ITEM. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMIT PER 107.19.

PROJECT NO:6711-00-70 HWY:CTH D COUNTY:MARQUETTE CONSTRUCTION DETAILS





TRAFFIC CONTROL DETOUR SIGNS







DETOUR

M04-8

24"X12"

EAST











DETOUR

NEXT 14 MILES

G20-51

60"X24"



DETOUR M04-8 24"X12"

EAST M03-2 24"X12

COUNTY

21"X21'



D M1-5Δ 24"X24" 24"X24'





ACCESS TO DOWNTOWN **BUSINESSES** R10-70

66"X36"

ROAD CLOSED 1.2MILES AHEAD LOCAL TRAFFIC ONLY R11-3

60"X30"

(TC-6)

DETOUR M04-8 24"X12"

EAST

M03-2 24"X12" COUNTY D

M1-5A 24"X24"

TRAFFIC CONTROL SIGNING GENERAL NOTES

1. DRAWINGS SHOW TRAFFIC CONTROL DETOUR FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON SITE CONDITIONS AS DIRECTED BY THE ENGINEER. ALL CHANGES TO THE TRAFFIC CONTROL DETOUR PLAN SHALL BE REVIEWED WITH THE PROJECT ENGINEER.

- 2. SIGN FACE LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS
- 3. TRAFFIC CONTROL PLANS ARE NOT TO SCALE.
- 4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.
- 5. COVER, REMOVE, OR ALTER ANY EXISTING SIGNS THAT DISPLAY A CONFLICTING MESSAGE WITH THE PROPOSED DETOUR ROUTE.

(A)

(TC-9)



DETOUR

M04-8

WEST

M03-4



END

M4-8A

24"X18

M03-4

24"X12

D

M1-5A

24"X24"



21"X21'







24"X12

EAST

M03-2

M05-

21"X21"



DETOUR

M04-8

24"X12"

EAST

M03-2

24"X12"

COUNT



DETOUR

M04-8

24"X12"

WEST

M03-4

24"X12"



DETOUR

M04-8

24"X12"

WEST

M03-4

24"X12"

OUNT



DETOUR

M04-8

WEST

M03-4

COUNT

D



DETOUR

M04-8

24"X12

EAST

24"X12

COUNT

D

24"X24"

M06-1

21"X21"

DETOUR M04-8

WEST















21"X21"











M06-1

24"X12" COUNT D







M06-

21"X21"





























WEST

M03-4

24"X12"

COUNTY

D

M1-5A

24"X24"

DETOUF

AHEAD













(TC-22)





(TC-23)





(TC-24)





(TC-25)



(TC-26)





24"X24

M03-2

NOTE: SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" SEE SDD "DETOUR SIGNING FOR MAINLINE CLOSURES"

PROJECT NO:6711-00-70

HWY: CTH D

COUNTY: MARQUETTE

TRAFFIC CONTROL DETOUR PLOT BY : BOBBI MAXWELL

PLOT SCALE : 1 IN:40 FT

FILE NAME : P:\11500S\11510S\11510\11510002\CADD\SHEETSPLAN\027001_DT.DWG

PLOT DATE: 12/7/2016 3:12 PM

PLOT NAME :

SHEET

LEGEND

TYPE III BARRICADE WTH ATTACHED SIGN

TYPE III BARRICADE

DIRECTION OF TRAFFIC

EXISTING SIGN TO BE COVERED

WORK AREA

SIGN ON PERMANENT SUPPORT

TYPE A WARNING LIGHT (FLASHING)

E

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

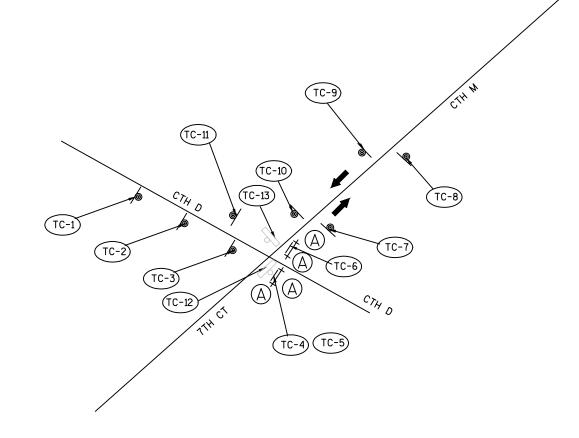
TYPE A WARNING LIGHT (FLASHING)

WORK AREA

DIRECTION OF TRAFFIC



EXISTING SIGN TO BE COVERED

























DETOUR

M04-8

24"X12

WEST

M03-4

24"X12"

COUNT







21"X21"



24"X12" EAST

D

M1-5A

24"X24"

21''X21'





D

24"X24"

M06-1

21"X21"











M1-5A

24"X24"





D

24"X24"

M05-1R

21"X21"











NOTE: SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" SEE SDD "DETOUR SIGNING FOR MAINLINE CLOSURES"

COUNTY: MARQUETTE

HWY: CTH D

TRAFFIC CONTROL DETOUR DETAIL 1

PLOT BY : BOBBI MAXWELL

PLOT SCALE : 1 IN:40 FT

SHEET

E

PROJECT NO:6711-00-70

TRAFFIC CONTROL DETOUR DETAIL 2

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

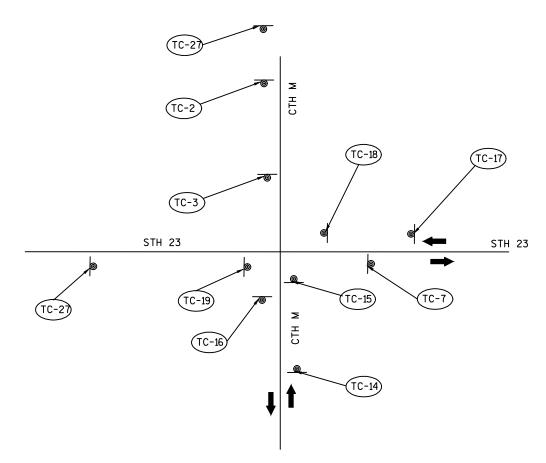
SIGN ON PERMANENT SUPPORT

TYPE A WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

WORK AREA

EXISTING SIGN TO BE COVERED









DETOUR

M04-8

EAST

24"X12"

D



DETOUR

M04-8

EAST

21"X21"





M04-8

24"X12"

WEST

M03-4



DETOUR

24"X12"

EAST

M03-2

24"X12"



DETOUR

M04-8

WEST

M03-4

24"X12"

D





DETOUR

M04-8

24"X12"

EAST

24"X12





EAST

M03-2

24"X12"

D

M1-5A

24"X24"

4

21"X21'













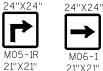


21"X21"











24"X12" 24"X24"

COUNTY M1-5A 24"X24"









21"X21"









NOTE: SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" SEE SDD "DETOUR SIGNING FOR MAINLINE CLOSURES"

PROJECT NO:6711-00-70

HWY: CTH D

COUNTY: MARQUETTE

TRAFFIC CONTROL DETOUR DETAIL 2

PLOT BY : BOBBI MAXWELL

PLOT SCALE : 1 IN:40 FT

SHEET

E

TRAFFIC CONTROL DETOUR DETAIL 3

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

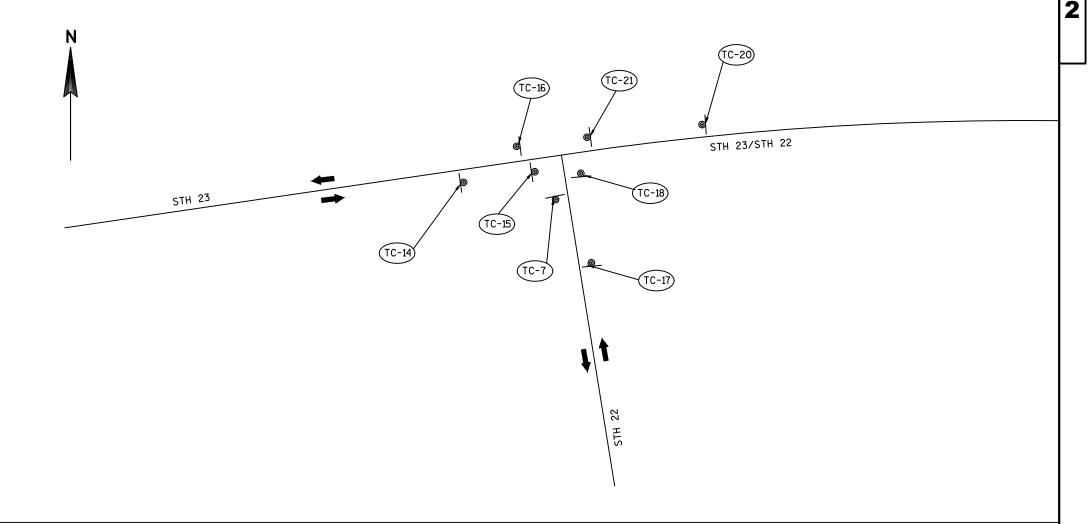
SIGN ON PERMANENT SUPPORT

TYPE A WARNING LIGHT (FLASHING)

WORK AREA

DIRECTION OF TRAFFIC

EXISTING SIGN TO BE COVERED



(TC-7)

DETOUR

M04-8

24"X12

EAST

M03-2

24"X12"

COUNTY

D

M1-5A

24"X24"



M03-2

24"X12'

D

24"X24"

M05-1R

21"X21"











DETOUR

M04-8

24"X12"

WEST

M03-4







24"X12

WEST

M03-4

24"X12"



COUNTY

M1-5A

24"X24"

M06-1

21"X21"

EAST M03-2

WEST M03-4 24"X12"

COUNTY

D

M1-5A

24"X24"

M03-4 24"X12" COUNTY D

M05-1L

DETOUR

M04-8

WEST









NOTE: SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" SEE SDD "DETOUR SIGNING FOR MAINLINE CLOSURES"

PROJECT NO:6711-00-70

HWY: CTH D

COUNTY: MARQUETTE

TRAFFIC CONTROL DETOUR DETAIL 3

SHEET

E

FILE NAME : P:\11500S\11510S\11510\11510002\CADD\SHEETSPLAN\027001_DT.DWG LAYOUT NAME - 027005_DT

PLOT DATE : 12/7/2016 3:12 PM

PLOT NAME : PLOT BY : BOBBI MAXWELL

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TYPE A WARNING LIGHT (FLASHING)

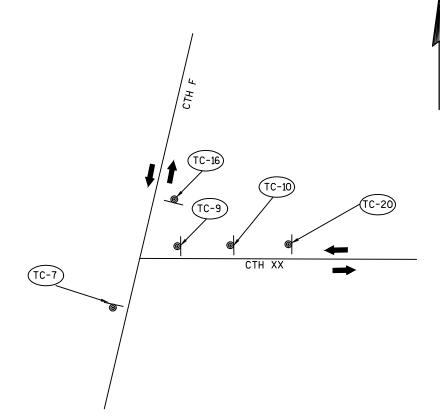
WORK AREA

DIRECTION OF TRAFFIC

EXISTING SIGN TO BE COVERED

TRAFFIC CONTROL DETOUR DETAIL 4 (TC-14) (TC-16) (TC-15) (TC-7) (TC-18)

TRAFFIC CONTROL DETOUR DETAIL 5



(TC-7)

DETOUR

24"X12"







EAST M03-2 24"X12"

COUNTY







COUNTY



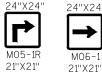




(TC-10)

WEST

















(TC-16)

M04-8

24"X12"

WEST

M03-4

24"X12"







(TC-17)

WEST

24"X12"



(TC-18)



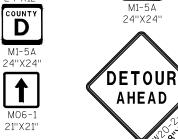












(TC-20)

COUNTY

NOTE: SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" SEE SDD "DETOUR SIGNING FOR MAINLINE CLOSURES"

PROJECT NO:6711-00-70 HWY: CTH D COUNTY: MARQUETTE

PLOT BY : BOBBI MAXWELL

TRAFFIC CONTROL DETOUR DETAIL 4 & 6

PLOT NAME :

WISDOT/CADDS SHEET 42

E

SHEET

TRAFFIC CONTROL DETOUR DETAIL 6

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

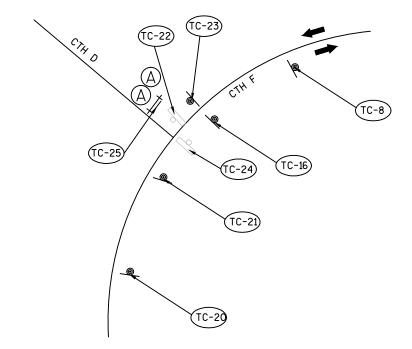
SIGN ON PERMANENT SUPPORT

TYPE A WARNING LIGHT (FLASHING)

WORK AREA

DIRECTION OF TRAFFIC

EXISTING SIGN TO BE COVERED



(TC-8)

















DETOUR NEXT 14 MILES

G20-51

60"X24"



24"X24"



















ROAD CLOSED 5 MILES AHEAD LOCAL TRAFFIC ONLY R11-3

60"X30"

NOTE: SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" SEE SDD "DETOUR SIGNING FOR MAINLINE CLOSURES"

PROJECT NO:6711-00-70

HWY: CTH D

COUNTY: MARQUETTE

TRAFFIC CONTROL DETOUR DETAIL 5

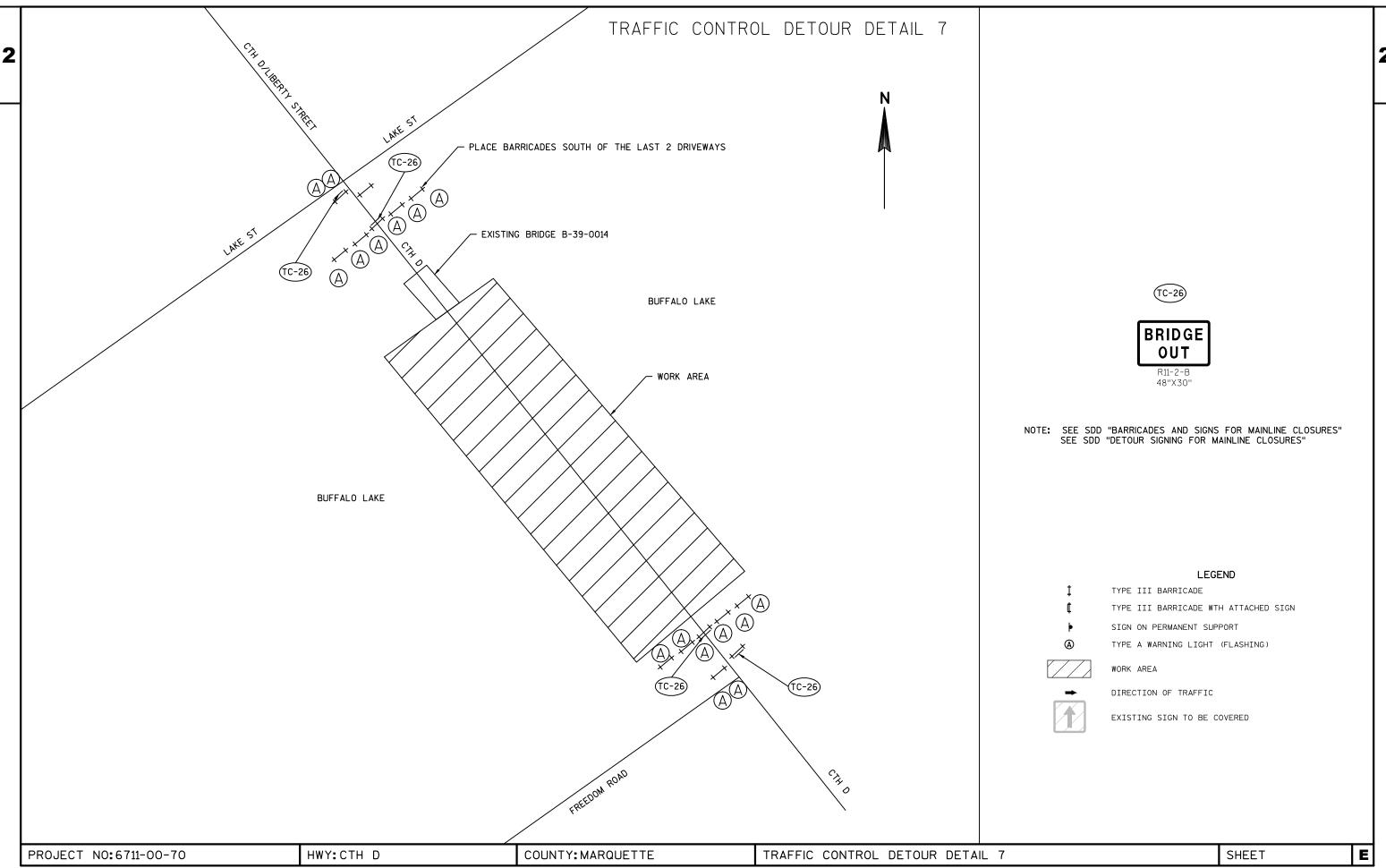
SHEET

FILE NAME : P:\11500S\11510S\11510\11510002\CADD\SHEETSPLAN\027001_DT.DWG LAYOUT NAME - 027007_DT

PLOT DATE: 12/7/2016 3:13 PM

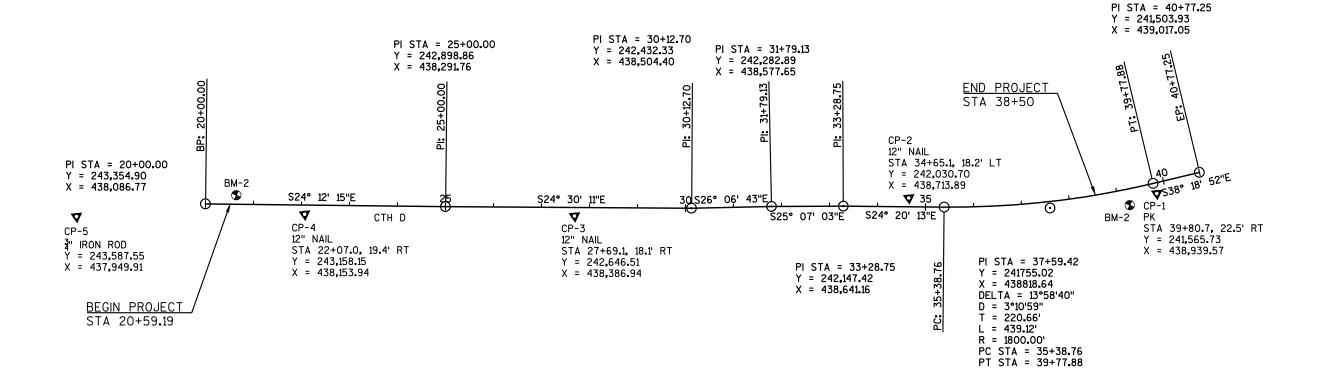
PLOT BY : BOBBI MAXWELL

E



	BENCH MARKS ⊕								
NO.	O. STATION DESCRIPTION ELEV.								
1	39+21.3, 33.9' RT	2 POLE NAILS IN 24" ASH	774.46						
2	20+64.2, 18.5' LT	DISK SE CORNER OF BRIDGE B39-14-75	780.08						





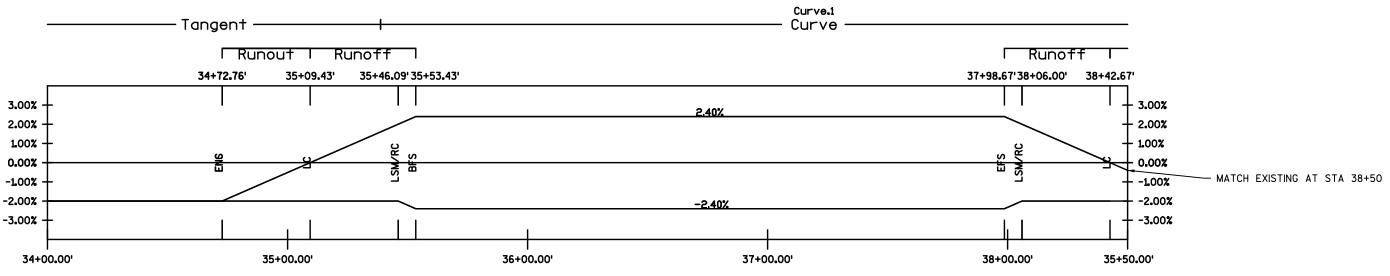
PROJECT NO:6711-00-70 HWY:CTH D COUNTY:MARQUETTE ALIGNMENT DIAGRAM SHEET **E**

2









HWY: CTH D

PROJECT NO:6711-00-70

COUNTY: MARQUETTE

SUPERELEVATION DIAGRAM

E

SHEET

0400 643.0900 Traffic Control Signs

Estimate Of Quantities

					6711-00-70
Line	Item	Item Description	Unit	Total	Qty
0010	205.0100	Excavation Common	CY	2,809.000	2,809.000
0020	213.0100	Finishing Roadway (project) 01. 6711-00-70	EACH	1.000	1.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	5,682.000	5,682.000
0030	313.0110	Pit Run	TON	2,027.000	2,027.000
0050	440.4410	Incentive IRI Ride	DOL	1,356.000	1,356.000
0060	450.4000	HMA Cold Weather Paving	TON	841.000	841.000
0070	455.0605	Tack Coat	GAL	340.000	340.000
0080	460.2000	Incentive Density HMA Pavement	DOL	960.000	960.000
	460.2000	•	TON		
0090		HMA Pavement 3 LT 58-28 S		841.000	841.000
0100	460.5224	HMA Pavement 4 LT 58-28 S	TON	654.000	654.000
0110	606.0300	Riprap Heavy	CY	2,879.000	2,879.000
0120	614.0920	Salvaged Rail	LF	355.000	355.000
0130	614.2300	MGS Guardrail 3	LF	187.500	187.500
0140	614.2500	MGS Thrie Beam Transition	LF	78.800	78.800
0150	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000
0160	619.1000	Mobilization	EACH	1.000	1.000
0170	624.0100	Water	MGAL	141.000	141.000
0180	625.0500	Salvaged Topsoil	SY	205.000	205.000
0190	628.1504	Silt Fence	LF	283.000	283.000
0200	628.1520	Silt Fence Maintenance	LF	283.000	283.000
0210	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0220	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0230	628.2004	Erosion Mat Class I Type B	SY	301.000	301.000
0240	628.6005	Turbidity Barriers	SY	1,900.000	1,900.000
0250	629.0210	Fertilizer Type B	CWT	0.200	0.200
0260	630.0120	Seeding Mixture No. 20	LB	7.000	7.000
0270	630.0200	Seeding Temporary	LB	7.000	7.000
0280	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0290	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	5.000	5.000
0300	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	3.000	3.000
0310	637.2210	Signs Type II Reflective H	SF	68.000	68.000
0310	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0320	638.2602	• • •		17.000	17.000
		Removing Signs Type II	EACH		
0340	638.3000	Removing Small Sign Supports	EACH	17.000	17.000
0350	642.5001	Field Office Type B	EACH	1.000	1.000
0360	643.0100	Traffic Control (project) 01. 6711-00-70	EACH	1.000	1.000
0370	643.0300	Traffic Control Drums	DAY	1,080.000	1,080.000
0380	643.0420	Traffic Control Barricades Type III	DAY	1,512.000	1,512.000
0390	643.0705	Traffic Control Warning Lights Type A	DAY	2,160.000	2,160.000

DAY

584.000 584.000

					6711-00-70
Line	Item	Item Description	Unit	Total	Qty
0410	643.0920	Traffic Control Covering Signs Type II	EACH	4.000	4.000
0420	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0430	643.2000	Traffic Control Detour (project) 01. 6711-00-70	EACH	1.000	1.000
0440	643.3000	Traffic Control Detour Signs	DAY	11,808.000	11,808.000
0450	645.0120	Geotextile Type HR	SY	6,232.000	6,232.000
0460	646.0106	Pavement Marking Epoxy 4-Inch	LF	7,164.000	7,164.000
0470	646.0900.S	Pavement Marking Late Season	LF	7,164.000	7,164.000
0480	650.4500	Construction Staking Subgrade	LF	1,791.000	1,791.000
0490	650.5000	Construction Staking Base	LF	1,791.000	1,791.000
0500	650.9910	Construction Staking Supplemental Control (project) 01. 6711-00-70	LS	1.000	1.000
0510	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0520	690.0150	Sawing Asphalt	LF	27.000	27.000
0530	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0540	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0550	SPV.0195	Special 01. Salvaged Asphaltic Pavement Shoulder	TON	1,138.000	1,138.000
0560	SPV.0195	Special 02. Stone Material for Travel Corridor Interstitial Space	TON	358.000	358.000
0570	SPV.0195	Special 03. Shot Rock	TON	5,059.000	5,059.000

EXCAVATION & BORROW

Division	From/To Station	Location	Common Excavation (1)	Salvaged/Unusable Pavement Material (3)	Available Material (4)	Marsh Excavation (5) (For information only)	Unexpanded Fill	Expanded Fill (6) Factor 1.25	Mass Ordinate +/- (7)	Waste	Comment:
1	20+59.19 - 38+50	CTH D	2,809	1008	1801	2227	70	88	1713	1713	
Division 1 Subtotal			2809	1008	1801	2227	70	88	1713	1713	
Grand Total Project 67	11-00-70		2809	1008	1801	2227	70	88	1713	1713	
	PROJECT 6711-00-70 To	otal Common Exc	2809	·							

- 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) Salvaged/Unusable Pavement Material
- 4) Available Material = Cut Salvaged/Unusuable Pavement Material
- 5) Marsh Excavation is shown as information only. This is included in the Shot Rock and Riprap Heavy items.
- 6) Expanded Fill Factor = 1.25
- 7) 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.

BASE AGGREGATE ITEMS

	305.0120 BASE AGGREGATE	313.0110 PIT	SPV.0195.01 SALVAGED	624.0100 WATER	650.5000 CONSTRUCTION
	DENSE 1 1/4-INCH	RUN	ASPHALTIC PAVEMENT SHOULDER		STAKING BASE
STATION - STATION	TON	TON	TON	MGAL	LF
20+59.19 - 38+50	5,331	1,843	463	115	1,791
SHOULDERS AT BEAM GUARD	71	_		1	
5' SHOULDERS LT & RT		_	350	5	
FILL FOR VOIDS ON RIPRAP	280	_		4	
20+59 - 20+75 FISH PLATFORMS		_	3	0.05	
25+25 - 27+25 FISH PLATFORMS		_	40	1	
28+25 - 30+00 FISH PLATFORMS		_	35	1	
32+00 - 34+25 FISH PLATFORMS		_	44	1	
UNDISTRIBUTED FOR SPRING 2018		_	100	2	
UNDISTRIBUTED		184	103	13	
TOTAL PROJECT 6711-00-70	5,682	2,027	1,138	141	1,791

ASPHALT PAVEMENT ITEMS

			455.0605	460.5223	460.5224	450.4000
			TACK	HMA PAVEMENT	HMA PAVEMENT	HMA COLD
			COAT	3 LT 58-28 S	4 LT 58-28 S	WEATHER
		DEPTH				PAVING
STATION - STATION	LOCATION	INCHES	GAL	TON	TON	TON
 20+59.19 - 38+50	MAINLINE	1.75	340	_	654	
20+59.19 - 38+50	MAINLINE	2.25	-	841	_	841
 TOTAL DDO IDOT 67	44.00.70		240	0.44	054	044
TOTAL PROJECT 67	11-00-70		340	841	654	841

PROJECT NO:6711-00-70 HWY:CTH D COUNTY:MARQUETTE MISCELLANEOUS QUANTITIES SHEET **E**

RIPRAP ITEMS

		606.0300 RIPRAP HEAVY	645.0120 GEOTEXTILE FABRIC TYPE HR	SPV.0195.02 STONE MATERIAL FOR TRAVEL CORRIDOR INTERSTITIAL SPACE	SPV.0195.03 SHOT ROCK
STATION - STATION	LOCATION	CY	SY	TON	TON
20+59.18 - 37+00.00	LT & RT	2,879	5,935	286	4047
UNDISTRIBUTED			297	72	1012
TOTAL PROJECT 6	711-00-70	2,879	6,232	358	5059

NOTE: EXCAVATION FOR RIPRAP HEAVY AND SHOT ROCK IS INCIDENTAL TO THE RIPRAP HEAVY ITEM OR SHOT ROCK ITEM

SALVAGED RAIL

		614.0920
		SALVAGED
		RAIL
STATION	LOCATION	LF
20+65.23 - 21+92.16	RT	127
20+65.19 - 22+92.79	LT	228
TOTAL PROJECT 671	1-00-70	355

ROADWAY BARRIER ITEMS

		614.2300 MGS GUARDRAIL 3	614.2500 MGS THRIE BEAM	614.2610 MGS GUARDRAIL TERMINAL
		3	TRANSITION	EAT
STATION - STATION	LOCATION	LF	LF	EACH
20+65.12 - 21+04.51	RT		39.4	
21+04.51 - 21+57.64	RT	50.0		
21+54.51 - 22+07.64	RT		_	1.0
20+65.06 - 21+04.46	LT		39.4	
21+04.46 - 22+41.96	LT	137.5	_	
22+41.96 - 22+95.08	LT			1.0
TOTAL PROJECT 6711	-00-70	187.5	78.8	2

RESTORATION ITEMS

STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE #20 LB	630.0200 SEEDING TEMPORARY LB
37+50 - 38+50	RT	115	159	0.1	4	
37+50 - 38+50 37+50 - 38+50	LT	55	92	0.1	2	2
UNDISTRIBUTED	LI	34	50	0.0	4	1
UNDIS IRIBUTED		34	50	0.0	ı	ļ
TOTAL DDO IFOT 674	1.00.70	005	004	0.0		
TOTAL PROJECT 671	1-00-70	205	301	0.2	1	/

SILT FENCE ITEMS

		628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE
STATION - STATION	LOCATION	LF	LF
37+42.83 - 38+51.41	RT	116	116
37+28.33 - 38+50.09	LT	120	120
UNDISTRIBUTED		47	47
TOTAL PROJECT 671	283	283	

TURBIDITY BARRIERS

		628.6005
		TURBIDITY
		BARRIERS
STATION - STATION	LOCATION	SY
20+51.45 - 37+42.83	RT	962
20+52.15 - 37+28.33	LT	938
TOTAL PROJECT 67	711-00-70	1,900

PROJECT NO:6711-00-70 HWY:CTH D COUNTY:MARQUETTE MISCELLANEOUS QUANTITIES SHEET **E**

PERMANENT SIGNING

SIGN NO.	STATION	SIGN CODE	_	IGN SI IN X IN		637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 4X6 INCH 12 FT EACH	634.0614 4X6 INCH 14 FT EACH	634.0616 4X6 INCH 16 FT EACH	MESSAGE
1-01	19+20	W5-52R	12	X	36		3	1			STRIPED MARKER
1-02	19+20	W5-52L	12	Χ	36		3	1			STRIPED MARKER
1-03	20+73	W5-52R	12	Χ	36		3	1			STRIPED MARKER
1-04	20+64	W5-52L	12	Χ	36		3	1			STRIPED MARKER
1-05	21+27	R2-1	24	Χ	30	5	_	_	1		SPEED LIMIT 25 MPH
1-06	21+67	12-3	78	Χ	24	13			1		PACKWAUKEE
1-07	22+77	R7-1-L	18	Χ	24	3			1		NO PARKING
1-08	28+14	I3-1	48	Χ	24	8				1	BUFFALO LAKE
		R2-1	24	Χ	30	5					SPEED LIMIT 25 MPH
1-09	29+30	R2-1	24	Χ	30	5				1	SPEED LIMIT 25 MPH
		l3-1	48	Χ	24	8					BUFFALO LAKE
1-10	37+32	R2-1	24	Χ	30	5			1		SPEED LIMIT 25 MPH
1-11	37+77	R7-51-R	18	Χ	24	3			1		NO PARKING
1-12	37+64	R2-1	24	Χ	30	5				1	SPEED LIMIT 25 MPH
		I3-1	48	X	24	8	_		_		BUFFALO LAKE
	TOTAL PRO	JECT 6711-00-7	70			68	12	4	5	3	

TRAFFIC CONTROL ITEMS

		TRAFFIC CONTROL DRUMS	643.0300 TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	TRAFFIC CONTROL WARNING LIGHTS TYPE A	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A
STATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
DETAIL 1	72		_	2	144	4	288
DETAIL 6	72			1	72	2	144
DETAIL 7	72			14	1,008	16	1,152
UNDISTRIBUTED	72	15	1,080	4	288	8	576
TOTAL PROJECT (6711-00-70		1,080		1,512		2,160

REMOVING SIGNS

		638.2602	638.3000	
		REMOVING	REMOVING	
		SIGNS	SMALL SIGN	
		TYPE II	SUPPORTS	
SIGN NO.	STATION	EACH	EACH	MESSAGE
R1-01	19+20	1	1	BRIDGE HAZARD MARKERS
R1-02	19+20	1	1	BRIDGE HAZARD MARKERS
R1-03	20+73	1	1	BRIDGE HAZARD MARKERS
R1-04	20+64	1	1	BRIDGE HAZARD MARKERS
R1-05	21+27	1	1	SPEED LIMIT 25 MPH
R1-06	21+67	1	1	PACKWAUKEE
R1-07	22+27	1	1	NO PARKING
R1-08	22+77	1	1	NO PARKING
R1-09	23+25	1	1	NO PARKING
R1-10	25+79	1	1	NO PARKING
R1-11	28+12	1	1	SPEED LIMIT 25 MPH
R1-12	29+32	1	1	SPEED LIMIT 25 MPH, BUFFALO LAKE
R1-13	29+74	1	1	NO PARKING
R1-14	34+21	1	1	NO PARKING
R1-15	37+35	1	1	SPEED LIMIT 25 MPH
R1-16	37+77	1	1	NO PARKING
R1-17	37+66	1	1	SPEED LIMIT 25 MPH, BUFFALO LAKE
OTAL PROJEC	T 6711-00-70	17	17	

TRAFFIC CONTROL SIGNS

			TRAFFIC CONTROL SIGNS	643.0900 TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL DETOUR SIGNS	643.3000 TRAFFIC CONTROL DETOUR SIGNS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II	TRAFFIC CONTROL SIGNS PCMS	643.1050 TRAFFIC CONTROL SIGNS PCMS
STATION	LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	DAYS
NORTH SIDE OF BUFFALO LAKE	LAKE STREET	7						1	7
SOUTH SIDE OF BUFFALO LAKE	FREEDOM ROAD	7						1	7
DETAIL 1		72	2	144	26	1,872	2		
DETAIL 2		72			37	2,664			
DETAIL 3		72			29	2,088			
DETAIL 4		72		_	29	2,088	_	_	
DETAIL 5		72			17	1,224			
DETAIL 6		72	1	72	14	1,008	2		
DETAIL 7		72	4	288					
CTH ZZ INTERSECTION		72		_	6	432	_	_	
CTH B INTERSECTION		72		_	6	432	_	_	
NORTH SIDE OF BUFFALO LAKE	SPRING 2018	5	8	40					
SOUTH SIDE OF BUFFALO LAKE	SPRING 2018	5	8	40			_		
TC	OTAL PROJECT 6711-00	-70		584		11,808	4		14

NOTE: THERE IS ONE CYCLE FOR COVERING SIGNS

PROJECT NO:6711-00-70 COUNTY: MARQUETTE SHEET Ε HWY: CTH D MISCELLANEOUS QUANTITIES PLOT NAME :

PAVEMENT MARKING

		646.0106	646.0106	646.0900.S	646.0900.S
		PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT
		MARKING	MARKING	MARKING	MARKING
		EPOXY	EPOXY	LATE	LATE
		4-INCH	4-INCH	SEASON	SEASON
		WHITE	YELLOW	WHITE	YELLOW
STATION - STATION	LOCATION	LF	LF	LF	LF
20+59.19 - 38+50	CENTERLINE		3,582		
20+59.19 - 38+50	EDGE LINE	3,582			
20+59.19 - 38+50	2018 SPRING CENTERLINE			_	3,582
20+59.19 - 38+50	2018 SPRING EDGE LINE			3,582	
	SUB-TOTALS	3,582	3,582	3,582	3,582
TOTAL PR	ROJECT 6711-00-70	7,1	164	7,1	64

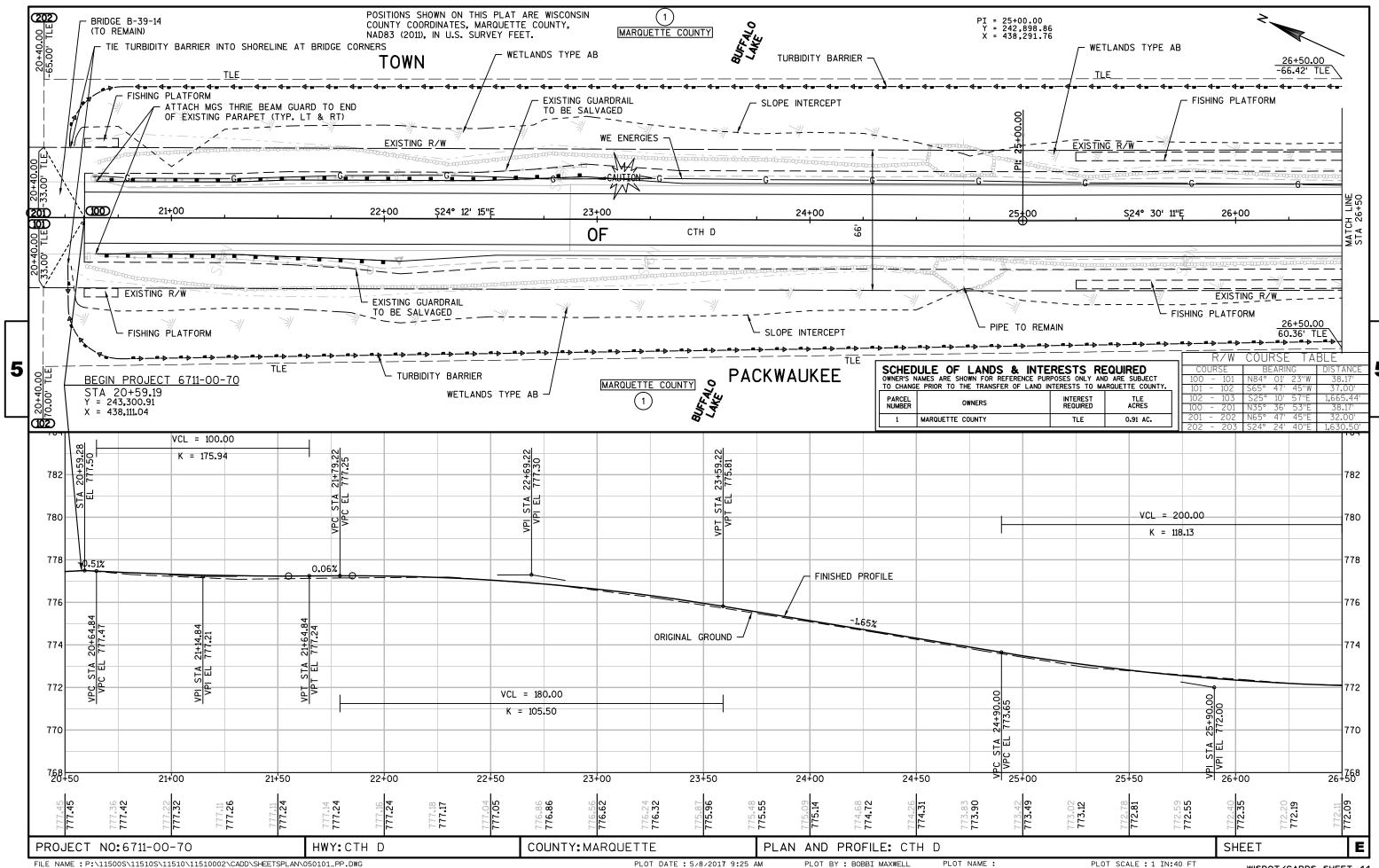
CONSTRUCTION STAKING

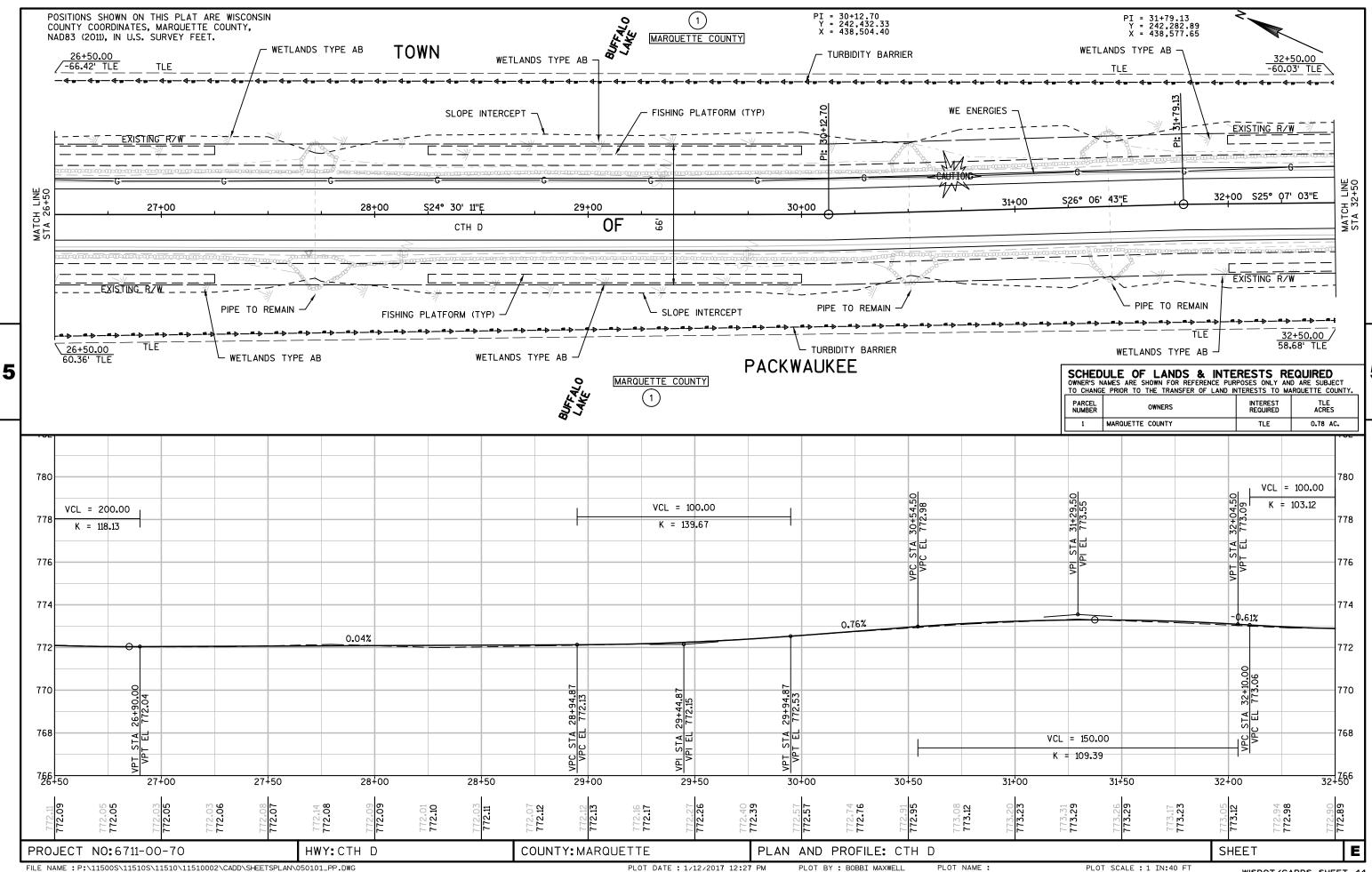
	650.4500 CONSTRUCTION STAKING SUBGRADE	650.9920 CONSTRUCTION STAKING SLOPE STAKES
STATION - STATION	LF	<u>LF</u>
20+59.19 - 38+50	1,791	
37+50 - 38+50		100
TOTAL PROJECT 6711-00-70	1,791	100

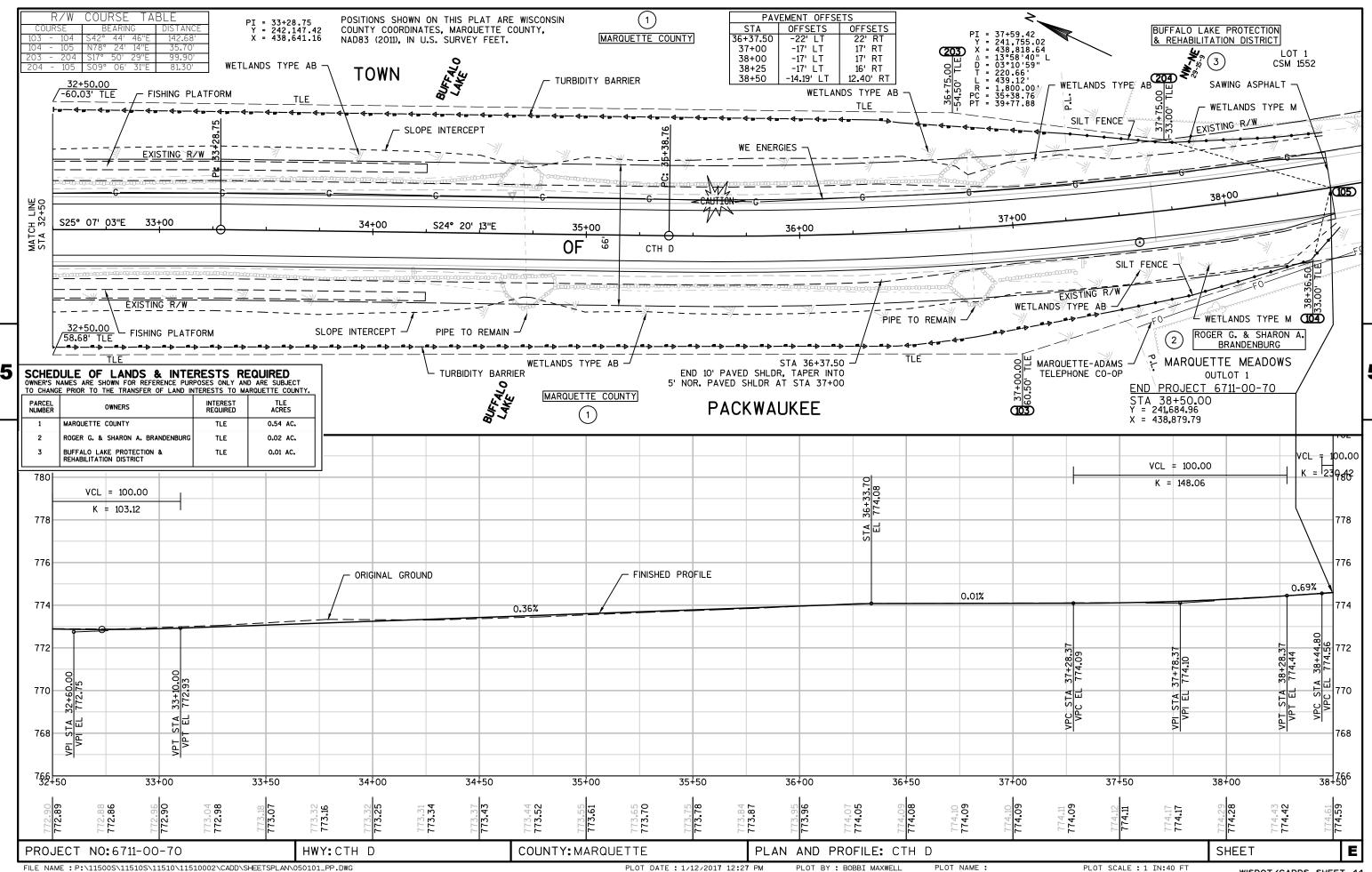
SAWING PAVEMENT ITEMS

		690.0150
		SAWING
		ASPHALT
STATION	LOCATION	LF
38+50	MAINLINE	27
TOTAL PRO	DJECT 6711-00-70	27

PROJECT NO:6711-00-70 HWY:CTH D COUNTY: MARQUETTE SHEET Ε MISCELLANEOUS QUANTITIES PLOT BY : BOBBI MAXWELL







Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

TYPICAL APPLICATION OF SILT FENCE

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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 11/8" X 11/8" 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 /S/ Beth Cannestra

CHIEF ROADWAY DEVELOPMENT ENGINEER

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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. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER 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.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

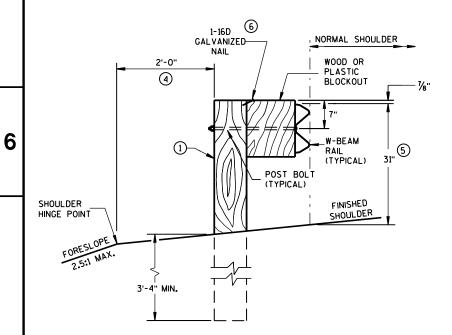
APPROVED

6/04/02
DATE

/S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

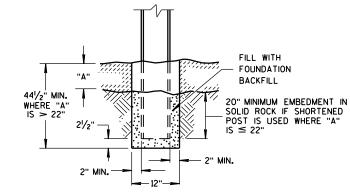
D.D. 8 E 11

- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



END VIEW

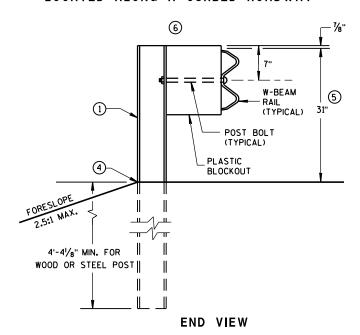
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



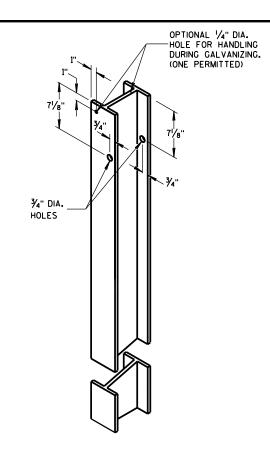
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



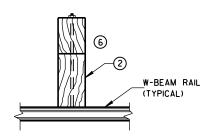
END VIEW
LOCATED ALONG A CURBED ROADWAY



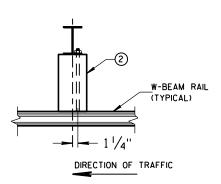
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



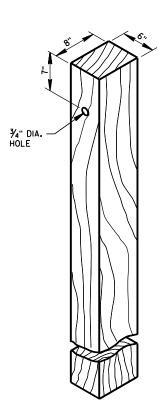
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



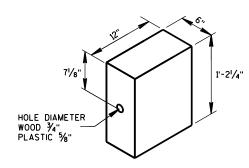
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL $^{\scriptsize \textcircled{1}}$



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

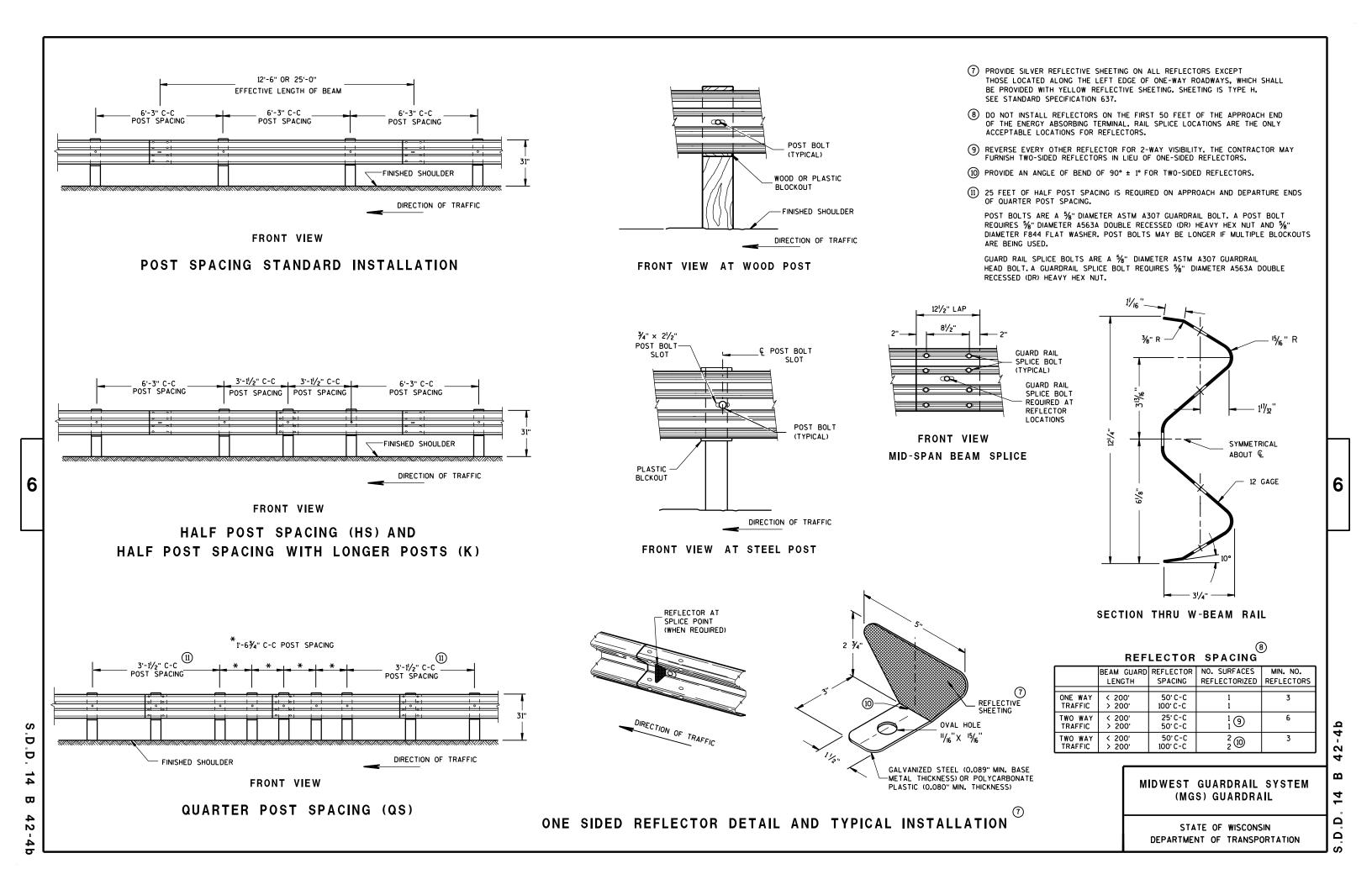
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 42-4a

D.D. 14 B '

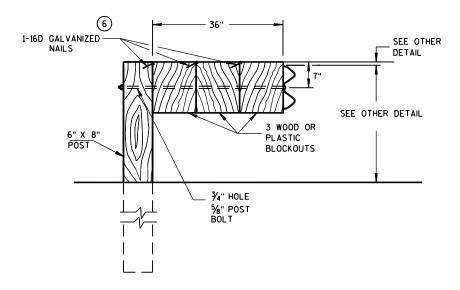
2-4

6



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

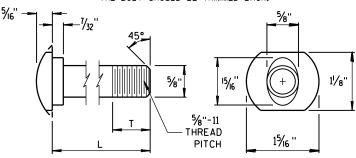


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

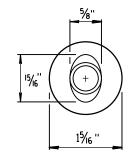
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

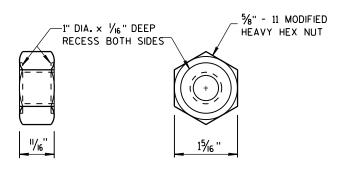


POST BOLT TABLE

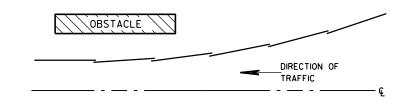
11/8"
-70
13/4"
4"
4½ ₆ "
4"
41/16"
4"



ALTERNATE BOLT HEAD

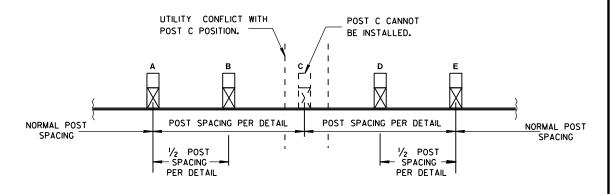


POST BOLT, SPLICE BOLT AND RECESS NUT



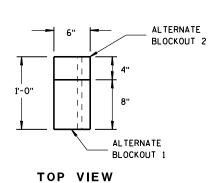
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD

BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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6

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2

6



S.D.D.

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SECTION A-A SECTION B-B

9 H

PLAN VIEW

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

44-2b

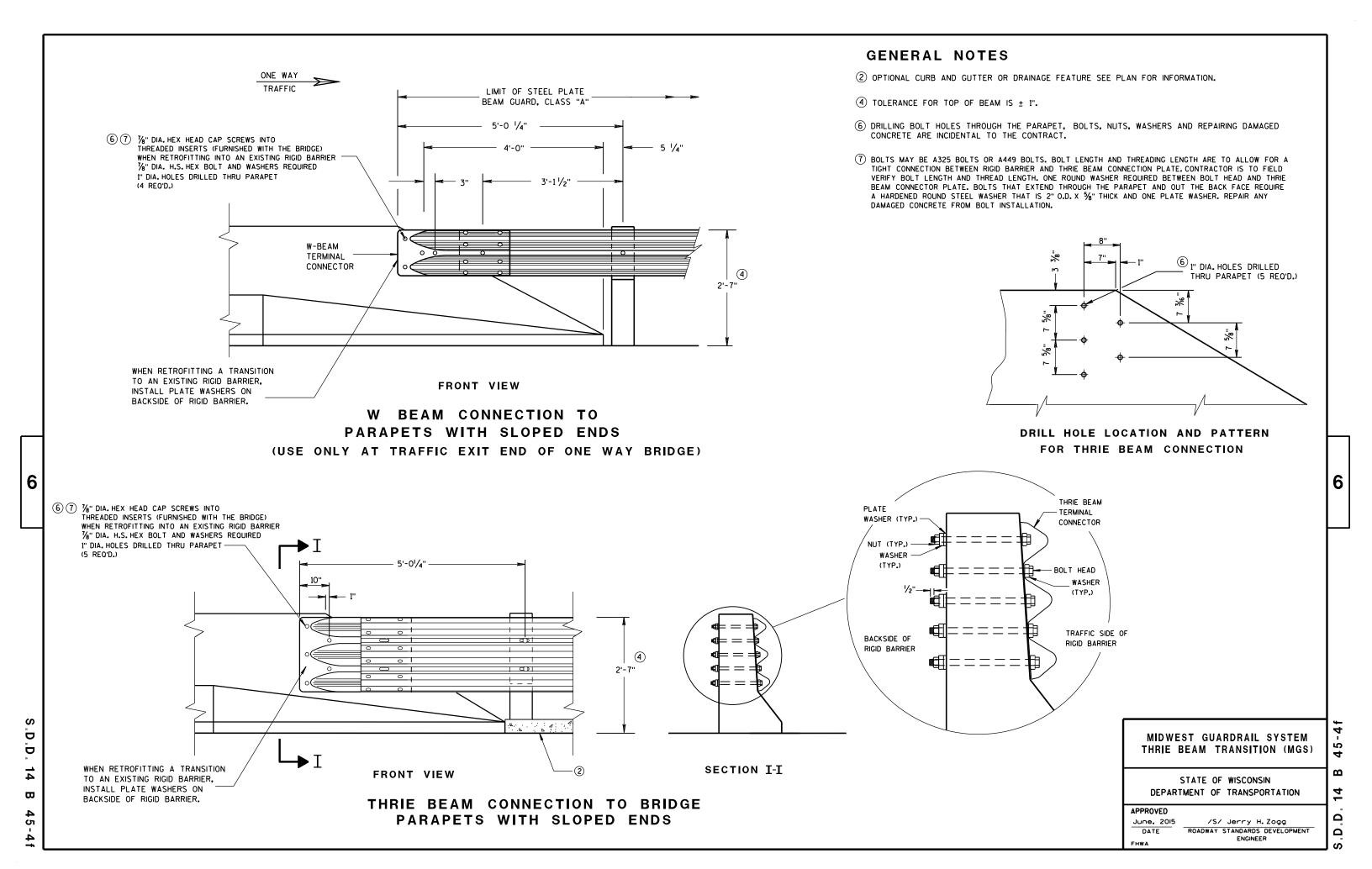
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ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

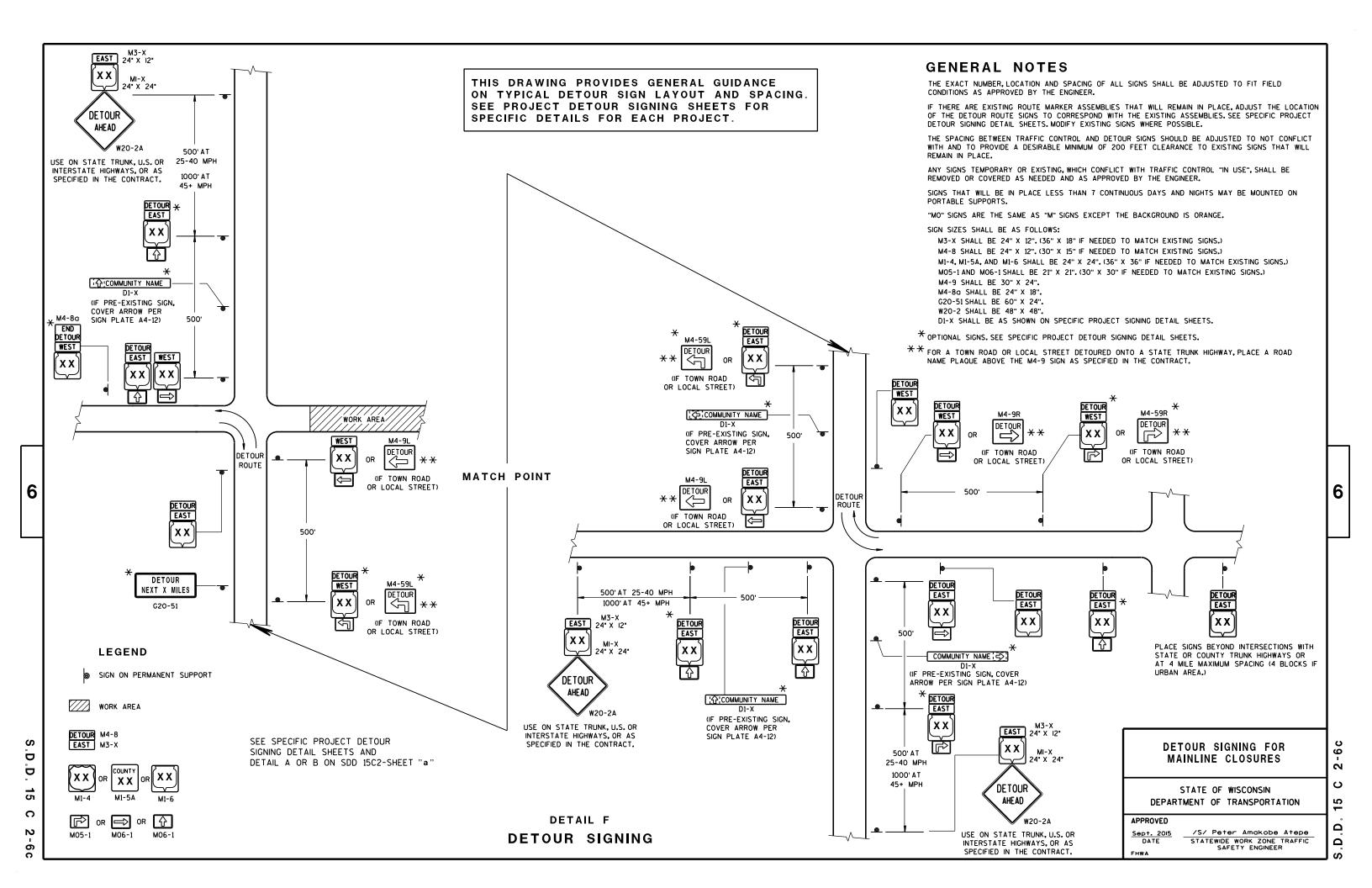
2

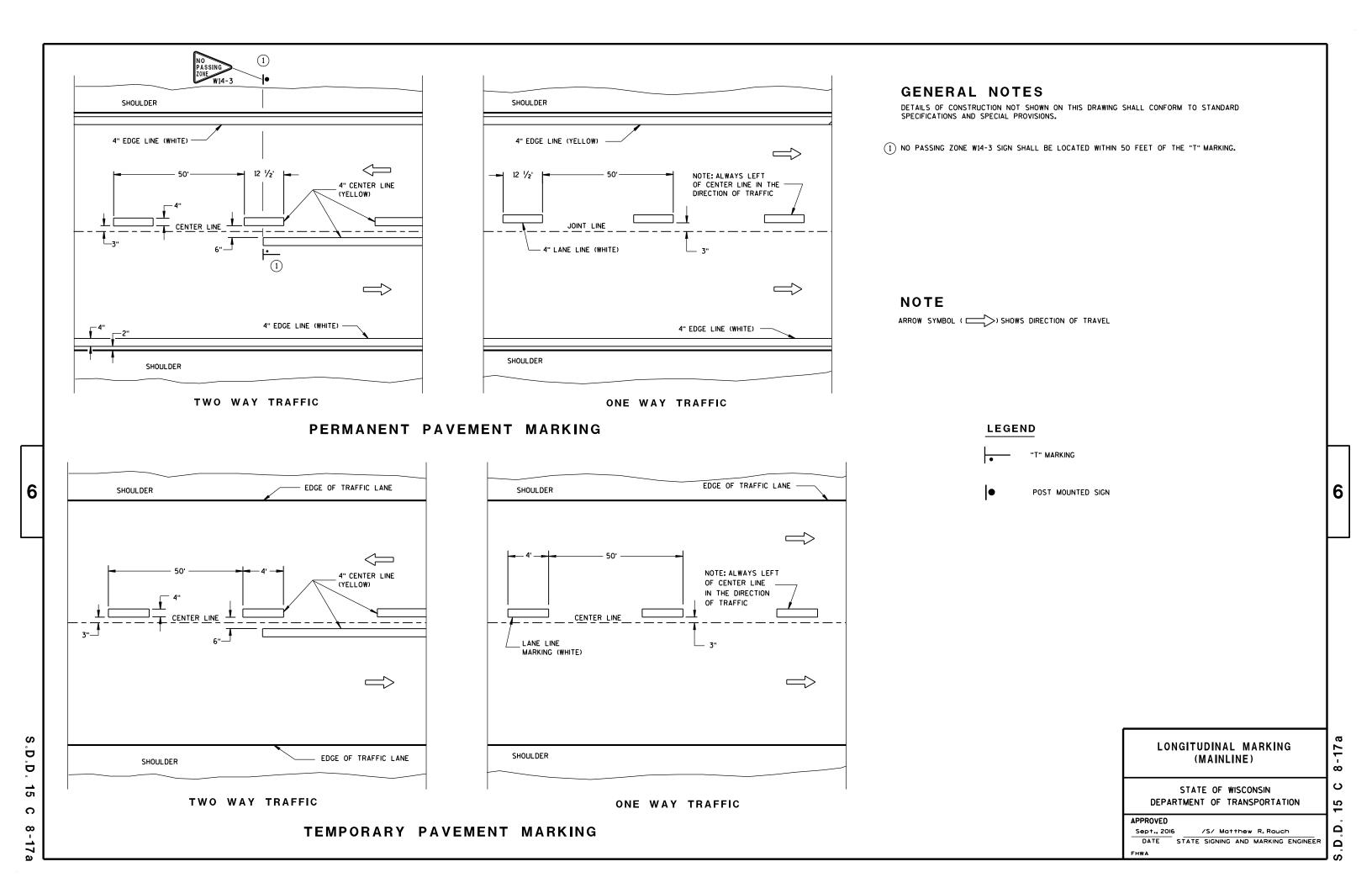
Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





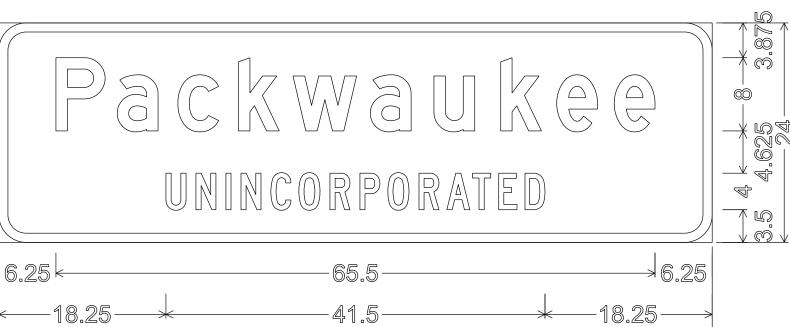




- 1. All Signs Type II Type H Reflective
- 2. Color:

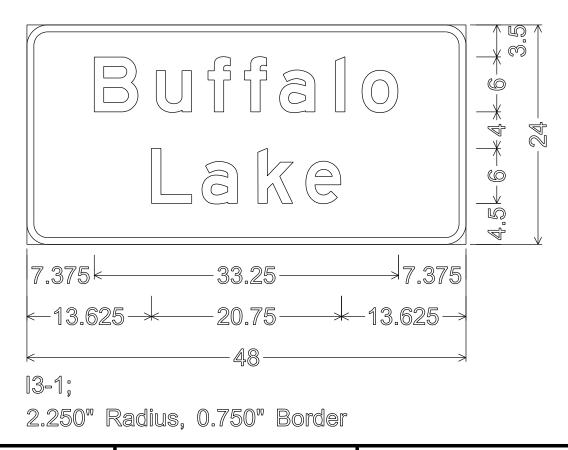
Background - GREEN Message - WHITE

3. Message Series - E except as noted



12-3; 3.000" Radius, 1.000" Border,

"Packwaukee" D; "UNINCORPORATED" C



PROJECT NO:6711-00-70

HWY: CTH D

FILE NAME: P:\11500s\11510s\11510\11510002\CADD\Downloads\16 11 29 signs from CO\070101-sd.DGN

COUNTY: MARQUETTE

SIGN DETAILS

PLOT SCALE : 1:10.491

SHEET NO: Ε

PLOT DATE: 11/29/2016 PLOT BY: bmaxwell

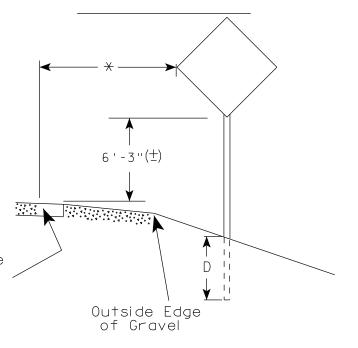
WISDOT/CADDS SHEET 42

070101-sd.DGN 11/29/2016 10:20:11 AM bmaxwell

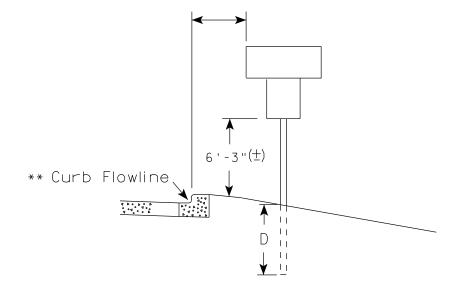
URBAN ARFA

2' Min - 4' Max (See Note 6) 7'-3"(士) ** Curb Flowline. White Edgeline Location

RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生) White Edgeline D^{-1} Location Outside Edae of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of

sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY : mscj9h

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5' - 3'' (\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN COUNTY:

PLOT DATE: 23-JUL-2015 15:21

PLOT NAME :

WISDOT/CADDS SHEET 42

SHEET NO:

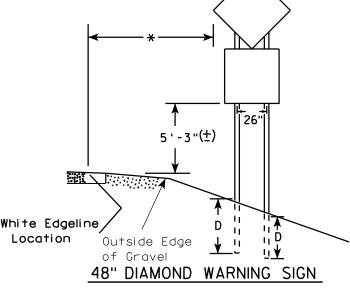
PLOT SCALE: 99.237937:1.000000

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) ** Curb ********\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae

2'Min - 4'Max (See Note 6) ***Curb Flowline 48" DIAMOND WARNING SIGN



COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED	
	L	E
* * *	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

HWY:

Location

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

of Gravel

Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

PROVED

Matthe Rauh

For State Traffic Engineer

DATE 7/23/15

PLATE NO. A4-4.14
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

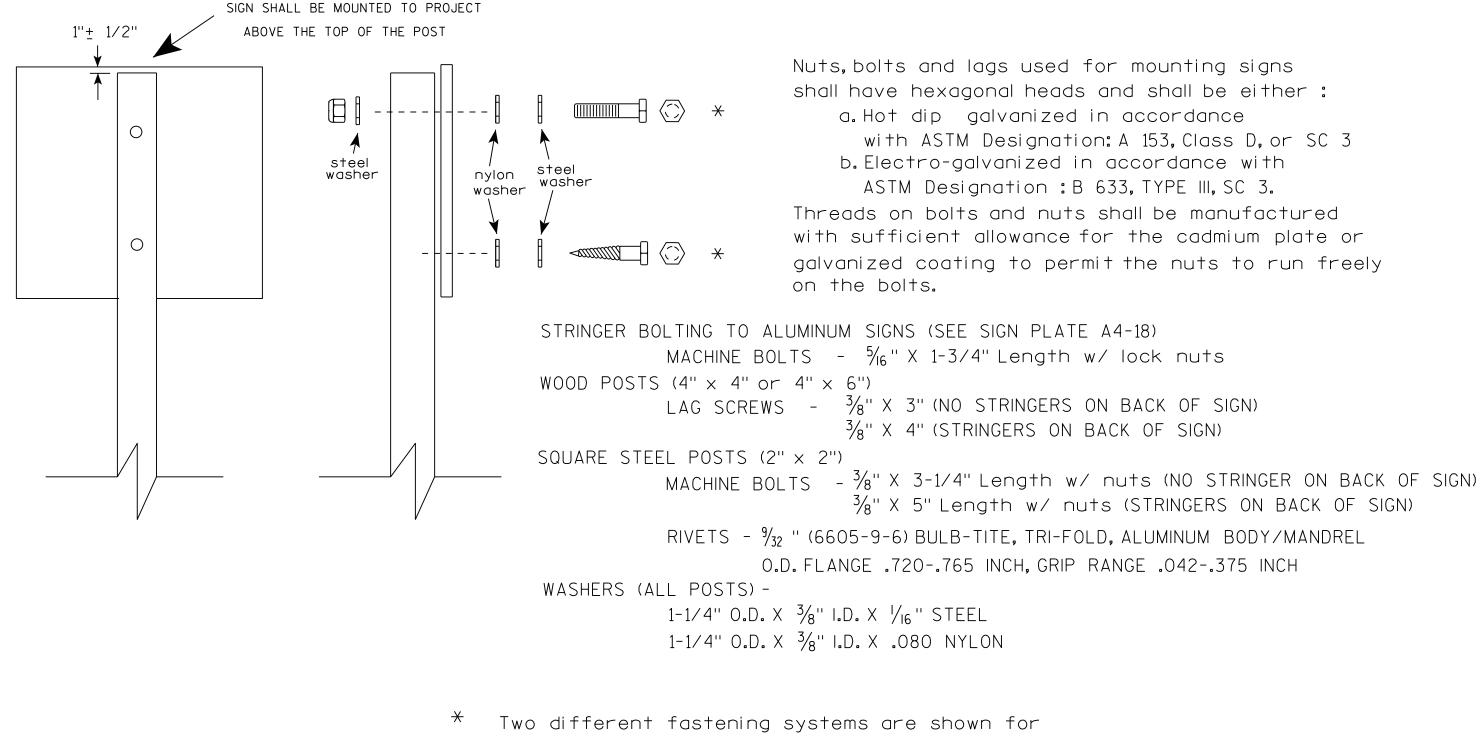
PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT NAME :

PLOT SCALE: 107.021305:1.000000

APPROVED



Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>A4-8.8</u>

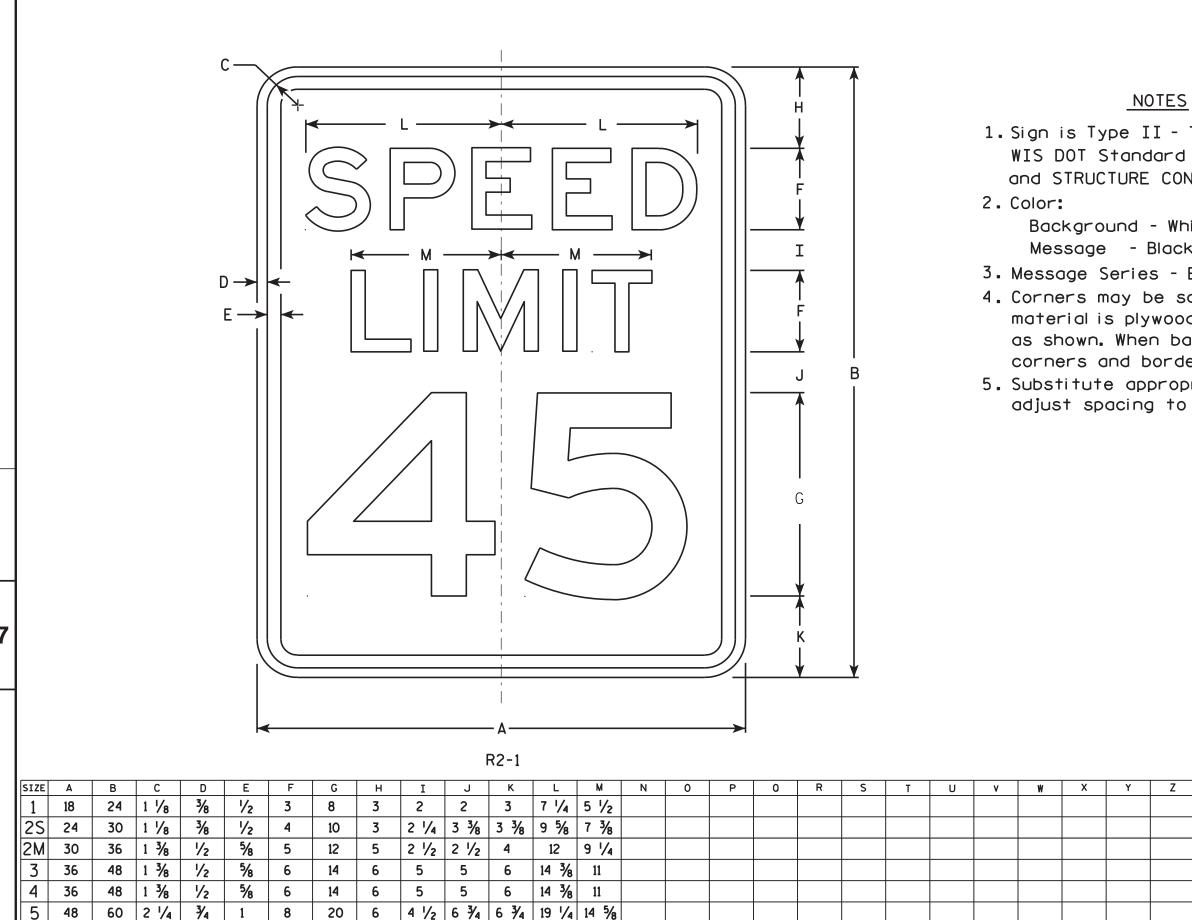
SHEET NO:

PROJECT NO:

FILE NAME . C.\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PIOT RY * \$\$ plotuser \$\$



COUNTY:

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal. the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raw

For State Traffic Engineer DATE 5/26/10 PLATE NO. R2-1.13

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :



NOTES

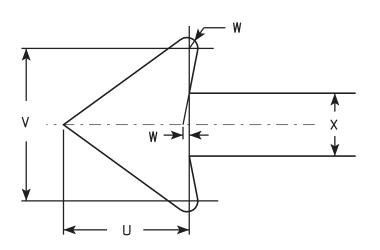
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Red

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1, 3 and 4 are series C, line 2 is series B.
- 6. R7-1D (double arrow)

R7-1L (left arrow)

R7-1R (right arrow)



R7-1

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	Ν	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 %	2	1 /8	5/8	1 1/2	2 1/2	2	2	4 1/8	4 1/8	2 1/4	2 1/8	2 1/2	3 %	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 %	3 1/8	5 %	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

COUNTY:

STANDARD SIGN R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/31/2011

SHEET NO:

PLOT DATE: 31-MAR-2011 09:20

PLOT NAME :

PLOT SCALE: 3.476110:1.000000

HWY:

PROJECT NO:

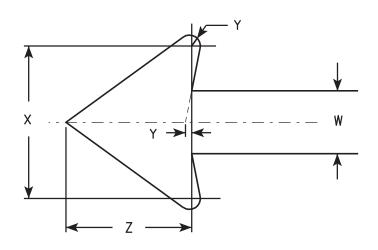


NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Red

- 3. Message Series See Note 6
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5.R7-51D (double arrow) R7-51R (right arrow) R7-51L (left arrow)
- 6. Lines 1, 3 and 4 are Series C. Line 2 is Series B.



ARROW DETAIL

												01															
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 1/8	2	⅓ 8	5/8	1 1/2	2 1/2	2	2	4 1/8	4 1/8	4 %	5/8	1 3/4	2 1/2	4 3/8	3 %	3/4	1 3/4	1/8	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 ¾	1 1/8	1 1/2	3 1/8	5 1/2	5 %	1 1/8	2 5/8	1/4	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

COUNTY:

STANDARD SIGN R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/31/2011

1 PLATE NO. R7-51.6
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R751.DGN

PROJECT NO:

HWY:

PLOT DATE: 31-MAR-2011 11:28

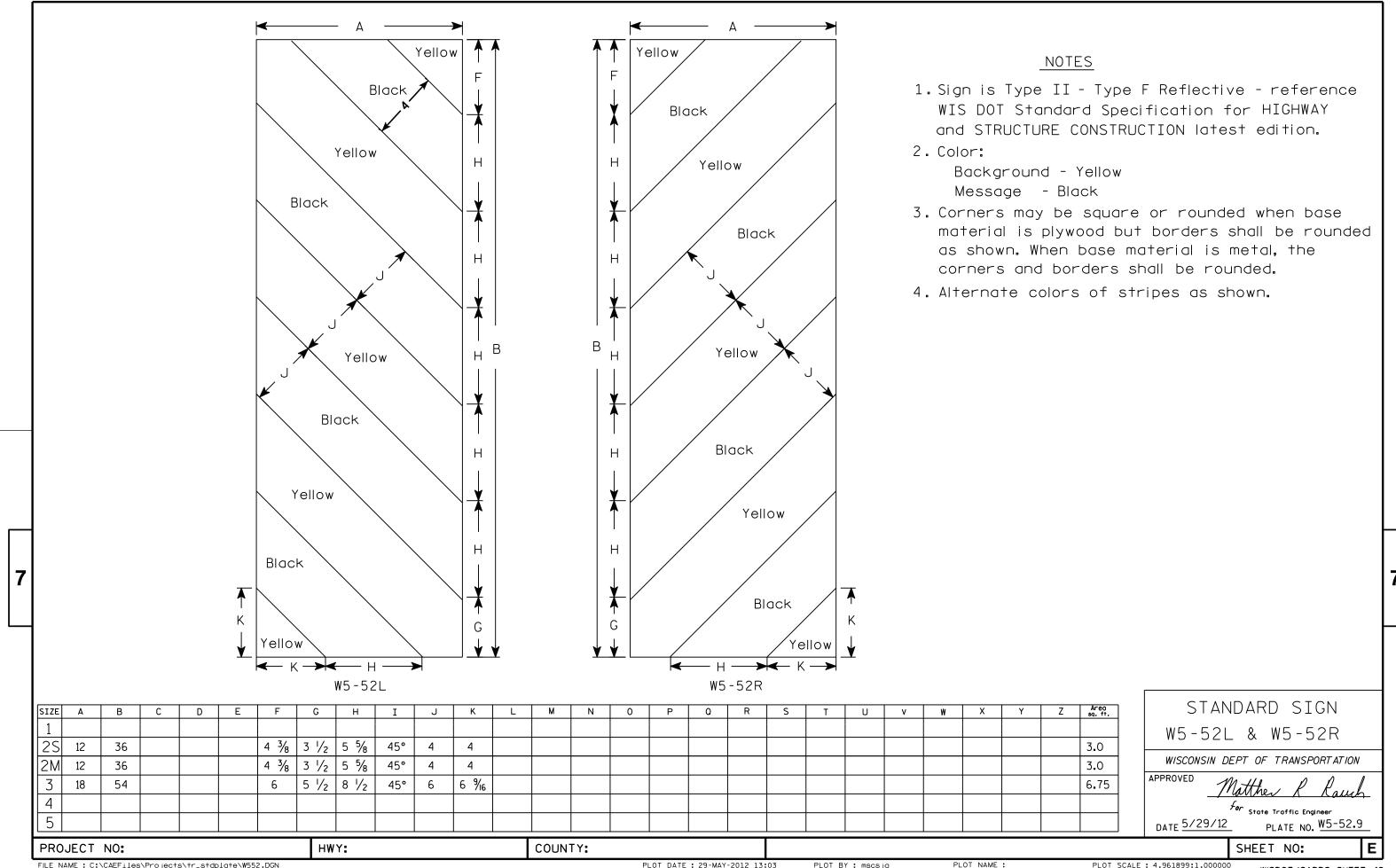
PLOT BY: mscsja

PLOT SCALE

PLOT NAME :

PLOT SCALE: 3.476110:1.000000

WISDOT/CADDS SHEET 42



TO A CITY INC. CTITALENCO

		i i	33	47		81	12	40	6	78	12	61		80	32	40		ω	77	92	78		38	48	38	39	84		83	80	40	14		42	53	38	35	S	71	92	78	78	,	-	75	89	10	78	0/	78	82	84	5
	CUMULATIVE VOL (CY)	FILL	0	0		0	0	0	c	0	0	0		0	0	0		0	0	0	0		0	0	0	0	C	,	0	0	0	0		0	0	0	C	>	0	0	0	0	c	0	0	0	0	c		0	0	C	
	CUMULAT	COMMON	33	47	:	81	12	40	G	28	12	61		∞	32	40		∞	77	92	78		38	48	38	39	84		83	80	40	14		42	53	38	22	SS	71	92	78	78	,	-	75	89	10	78	0,	78	82	84	5
	INCREMENTAL VOL (CY)	FILL*	0	0		0	0	0	c	0	0	0		0	0	0		0	0	0	0	,	0	0	0	0	c	,	0	0	0	0	,	0	0	0	c	Þ	0	0	0	0	·	0	0	0	0	c	Þ	0	0	c	
	INCREMENT	COMMON	33	47	:	81	12	40	S	58	12	61		80	32	40		80	77	92	78	:	38	48	38	39	84	,	83	80	40	14		42	53	38	35	SS SS	7.1	76	78	78	,	-	75	89	10	82	0/	78	82	84	5 8
	(SF)	FILL	0	0	0	0	,	0	0	0		0	0	C		0	0	0		5	0	0	0	c		0	0	0	0	c	5	0	0	0	c	0	0	0	0	,	0	0	0	0	c		0	0	0	c		0	0
	AREA		QC .	56	45	43		43	44	44		44	44	43	2	43	42	42	:	- 4	41	43	50	73	?	40	44	46	44	ç	24	43	46	58	7	44	38	37	40		42	42	43	43	OV.	2	43	43	41	44	‡	45	46
СТН D	DISTANCE	FEET	15.81	25.00		50.00	7.64	25.00	1	17.36	7.64	37.44		4.92	20.08	25.00		4.92	50.00	50.00	50.00		22.03	27.97	25.00	25.00	50.00		50.00	50.00	25.00	25.00		22.03	27.97	25.00	25.00	29.00	50.00	50.00	50.00	50.00		0.89	49.11	43.93	6.07	00 05	00.00	50.00	50.00	50.00	
•		STATION	20+59:19	20+75.00	21+00.00	21+50.00		21+57.64	21+82.64	22+00.00		22+07.64	22+45.08	22+50.00		22+70.08	22+95.08	23+00.00		73+20.00	24+00.00	24+50.00	24+72.03	25+00 00	00.00	25+25.00	25+50.00	26+00.00	26+50.00	00 00+20	7/+00.00	27+25.00	27+50.00	27+72.03	00 00+00	78+00.00	28+25.00	28+50.00	29+00.00		29+50.00	30+00.00	30+50.00	30+50.89	31+00 00		31+43.93	31+50.00	32+00.00	32+50.00	20.00	33+00.00	33+50.00

FILE NAME : P:\11500S\11510S\11510\11510002\CADD\SHEETSPLAN\090101-EW.DWG LAYOUT NAME - ****

HWY:CTH D

PROJECT NO:6711-00-70

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PLOT DATE: 1/6/2017 12:49 PM

COUNTY: MARQUETTE

PLOT BY : BOBBI MAXWELL PL

EARTHWORK

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

SHEET

WISDOT/CADDS SHEET 42

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CONTINUED FROM PREVIOUS PAGE

	3000	MASS FACE		40		39		34		46		70		68		71		43		27		49		14		13		52			
	'E VOL (CY)	HILL		0		0		0		0		0		0		0		0		0		21		20		22		24			
	CUMULATIVE VOL (CY)	COMMON		40		39		34		46		70		68		71		43		27		69		35		36		76			
	AL VOL (CY)	FILL *		0		0		0		0		0		0		0		0		0		21		20		22		24		88	
	INCREMENTAL VOL (CY)	COMMON		40		39		34		46		70		68		71		43		27		69		35		36		92		2809	
	(SF)	FILL	0		0		0		0		0		0		0		0		0		0		18		17		21		0		
	AREA (SF)	COMMON	45		41		42		47		40		36		38		38		38		38		37		37		40		42		
СТН D	DISTANCE	FEET		25.00		25.00		21.00		29.00		50.00		50.00		50.00		30.57		19.43		50.00		25.00		25.00		50.00		1791	
	NOITATS	2014	34+00.00		34+25.00		34+50.00		34+71.00		35+00.00		35+50.00		36+00.00		36+50.00		36+80.57		37+00.00		37+50.00		37+75.00		38+00.00		38+50.00		* INCLUDES 1.25 EXPANSION

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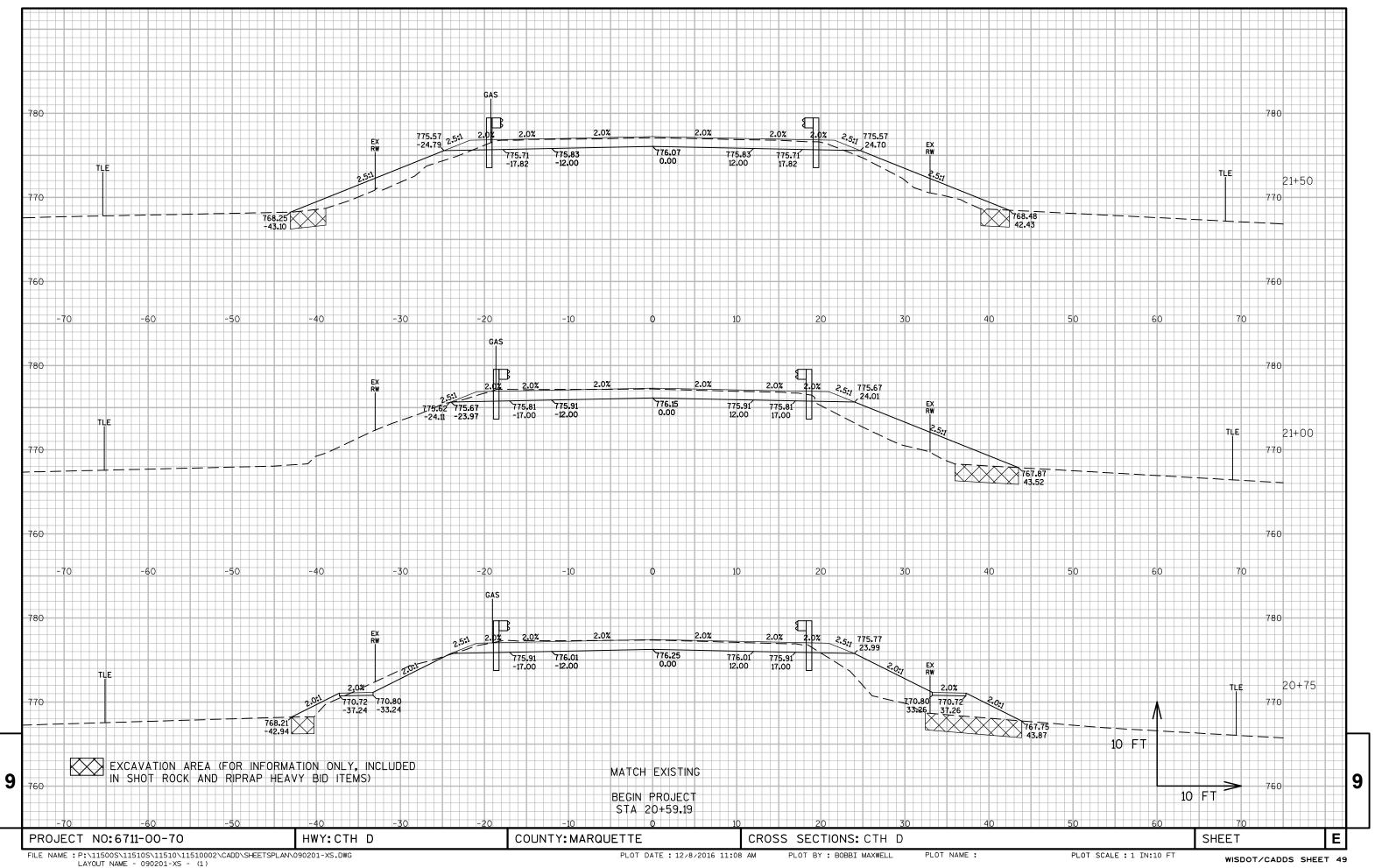
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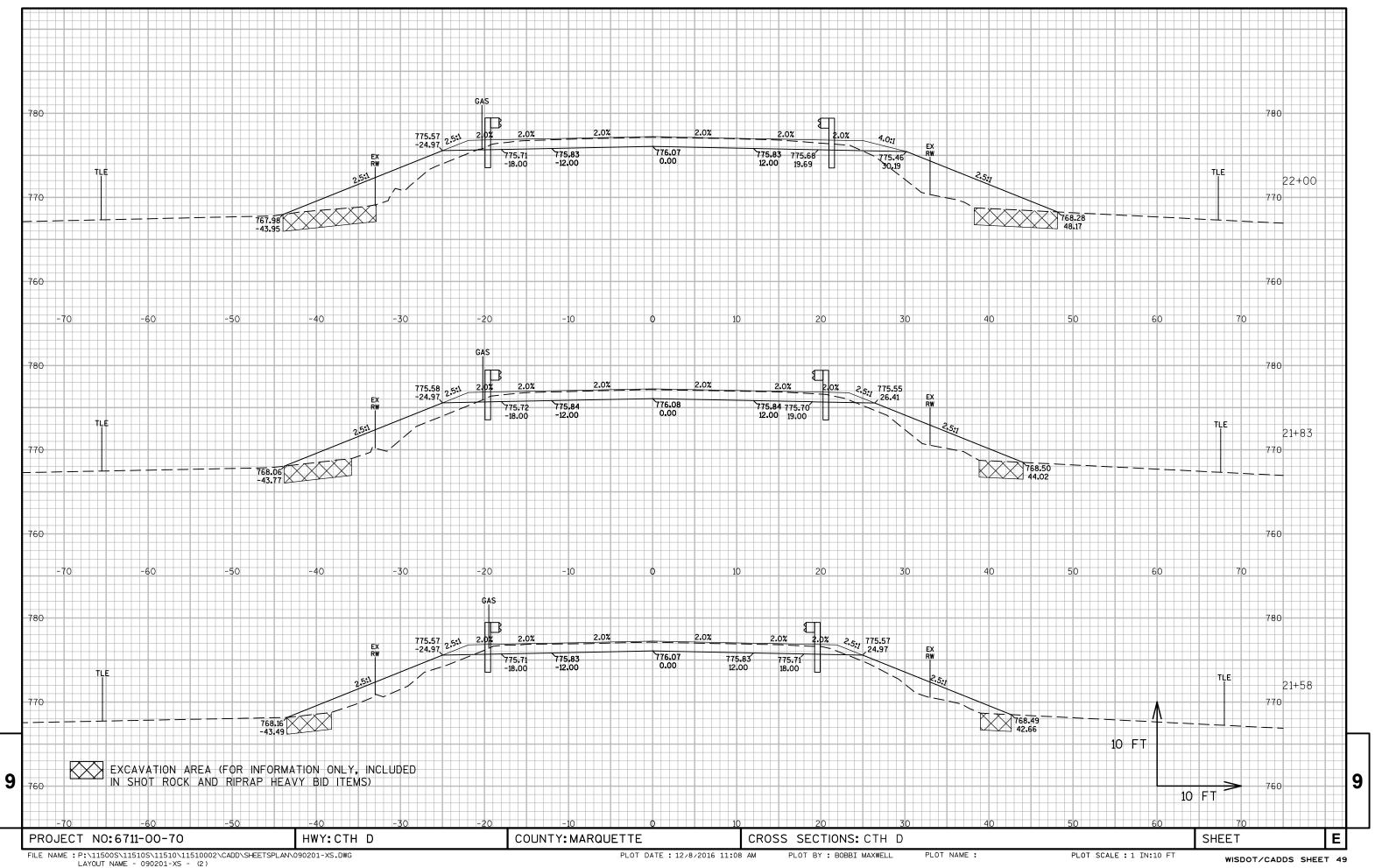
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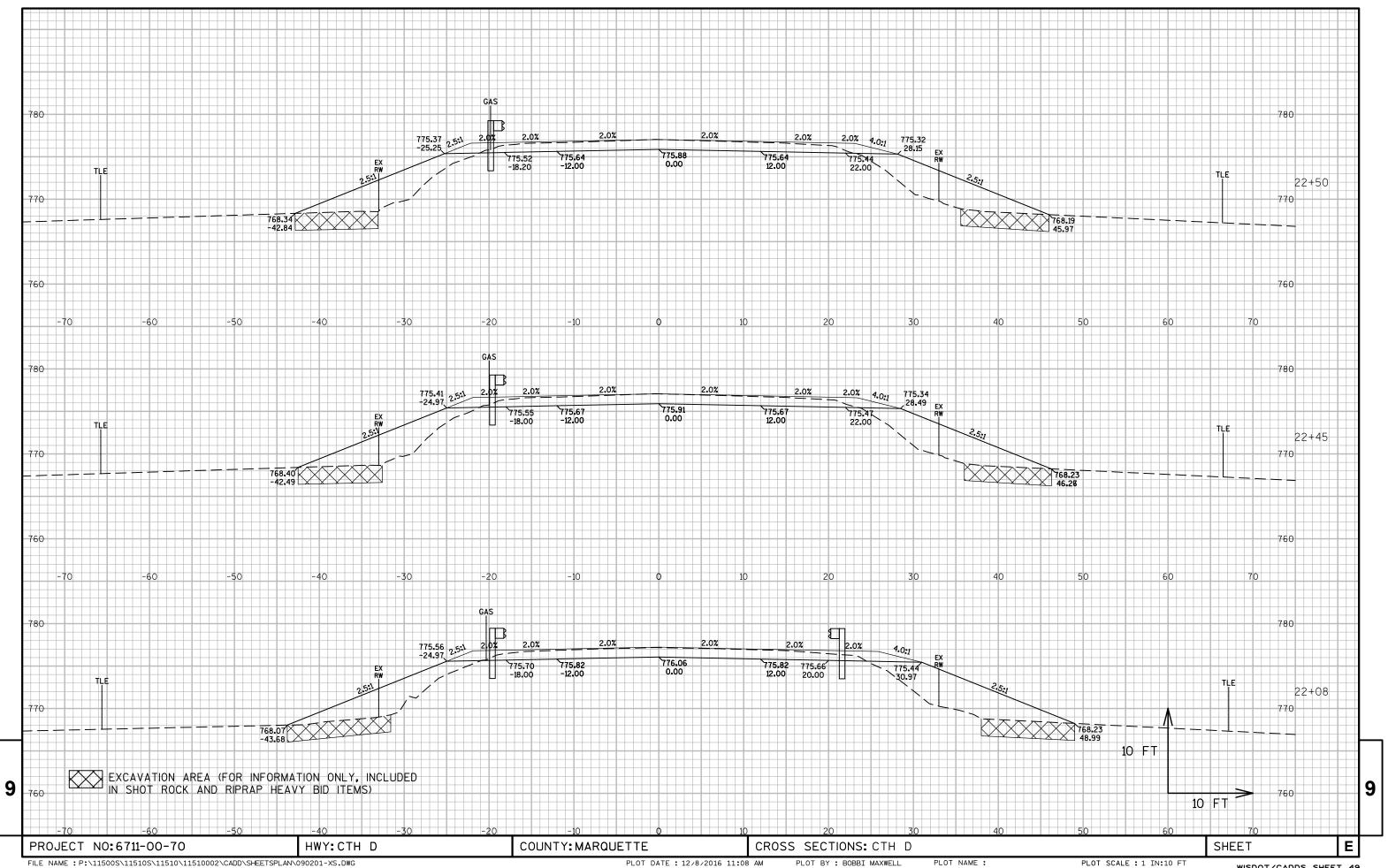
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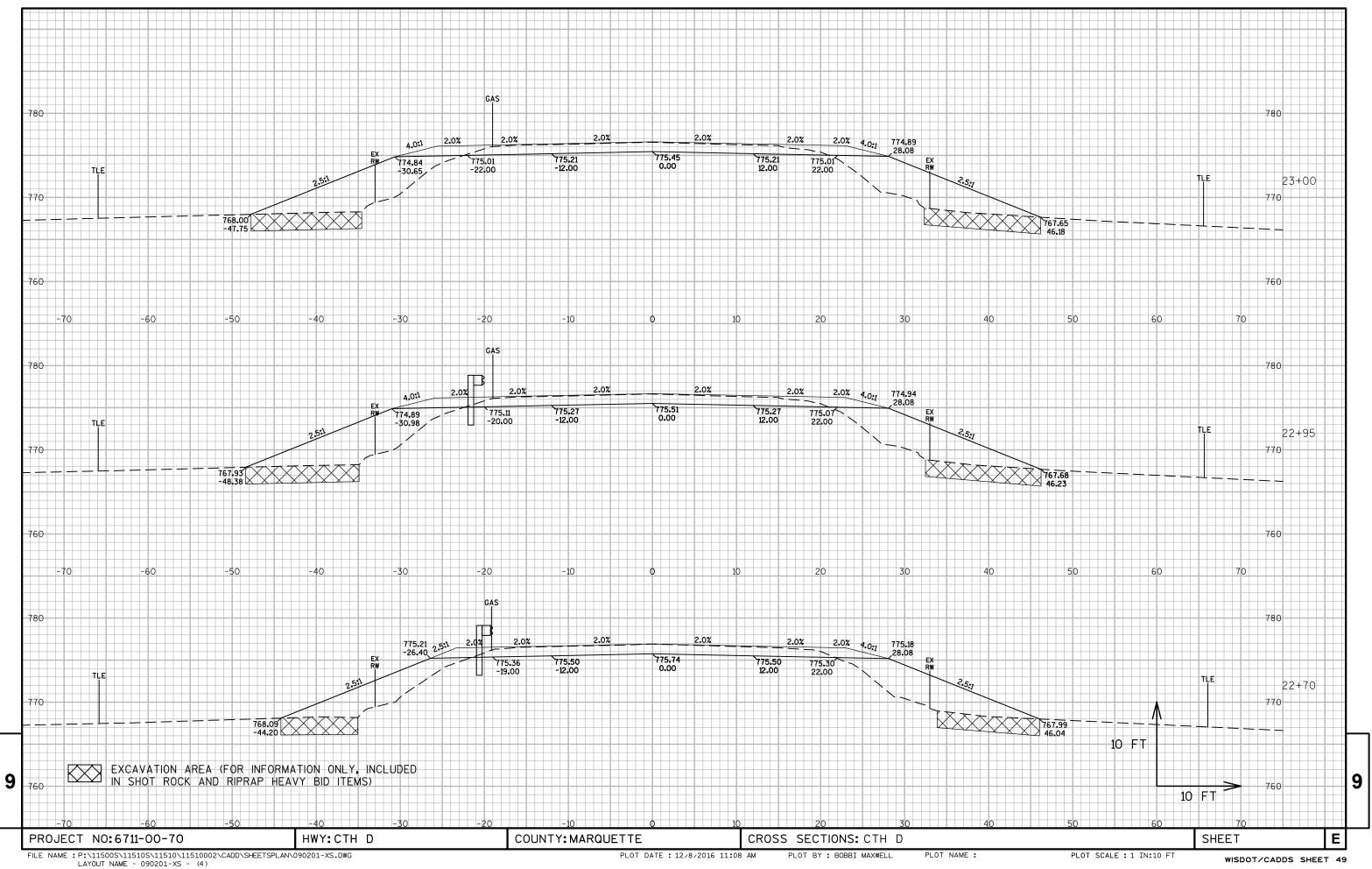
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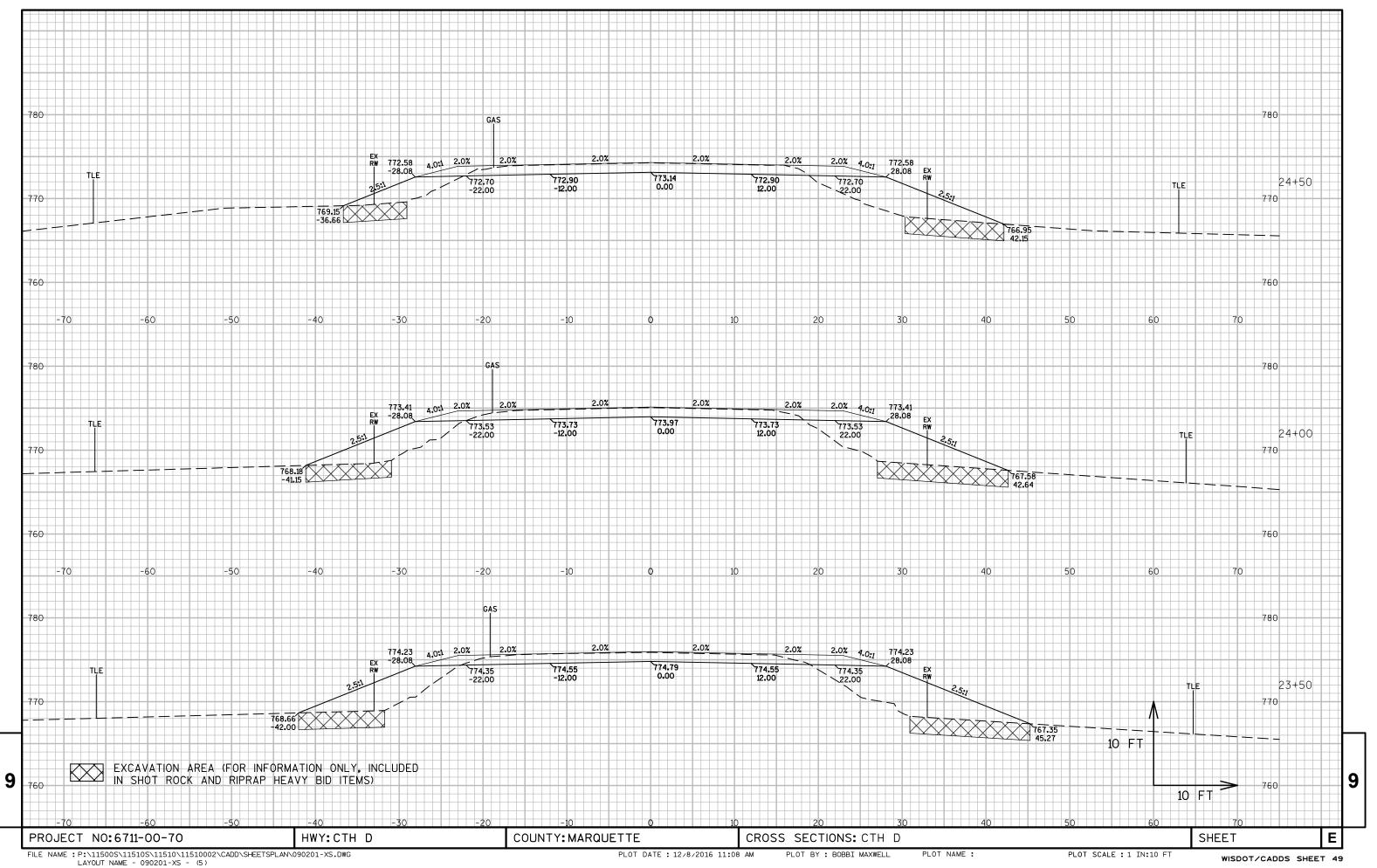
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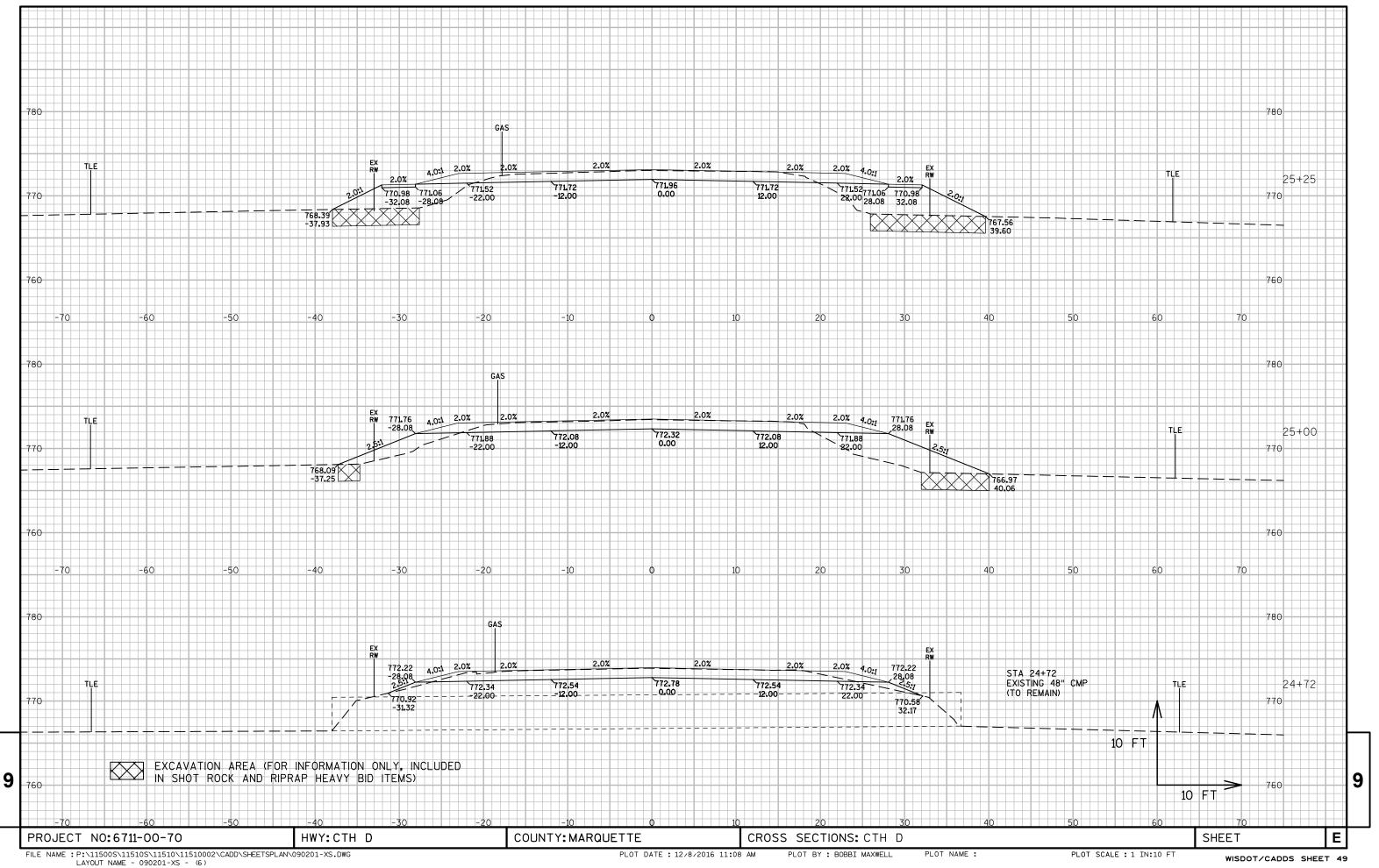


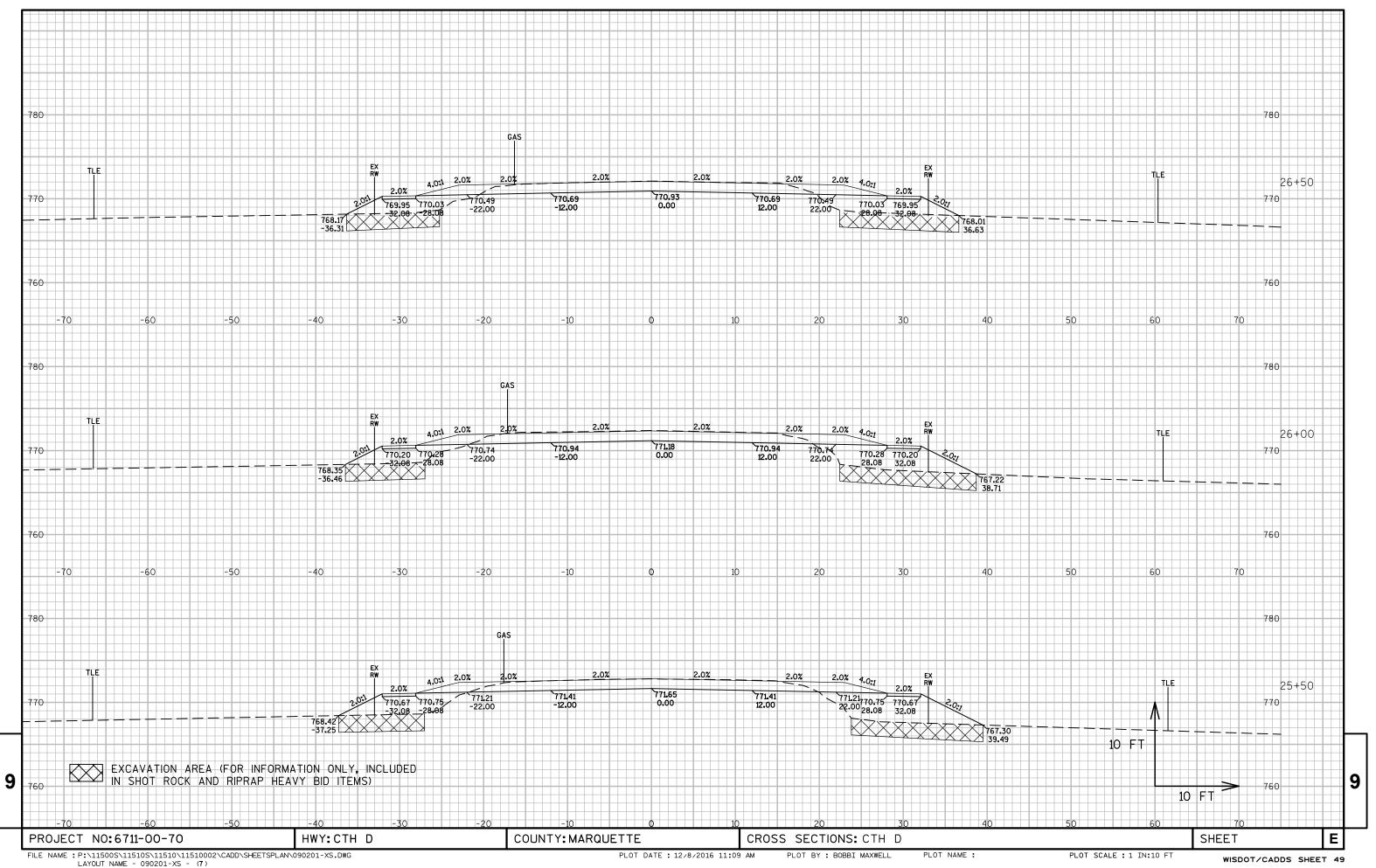


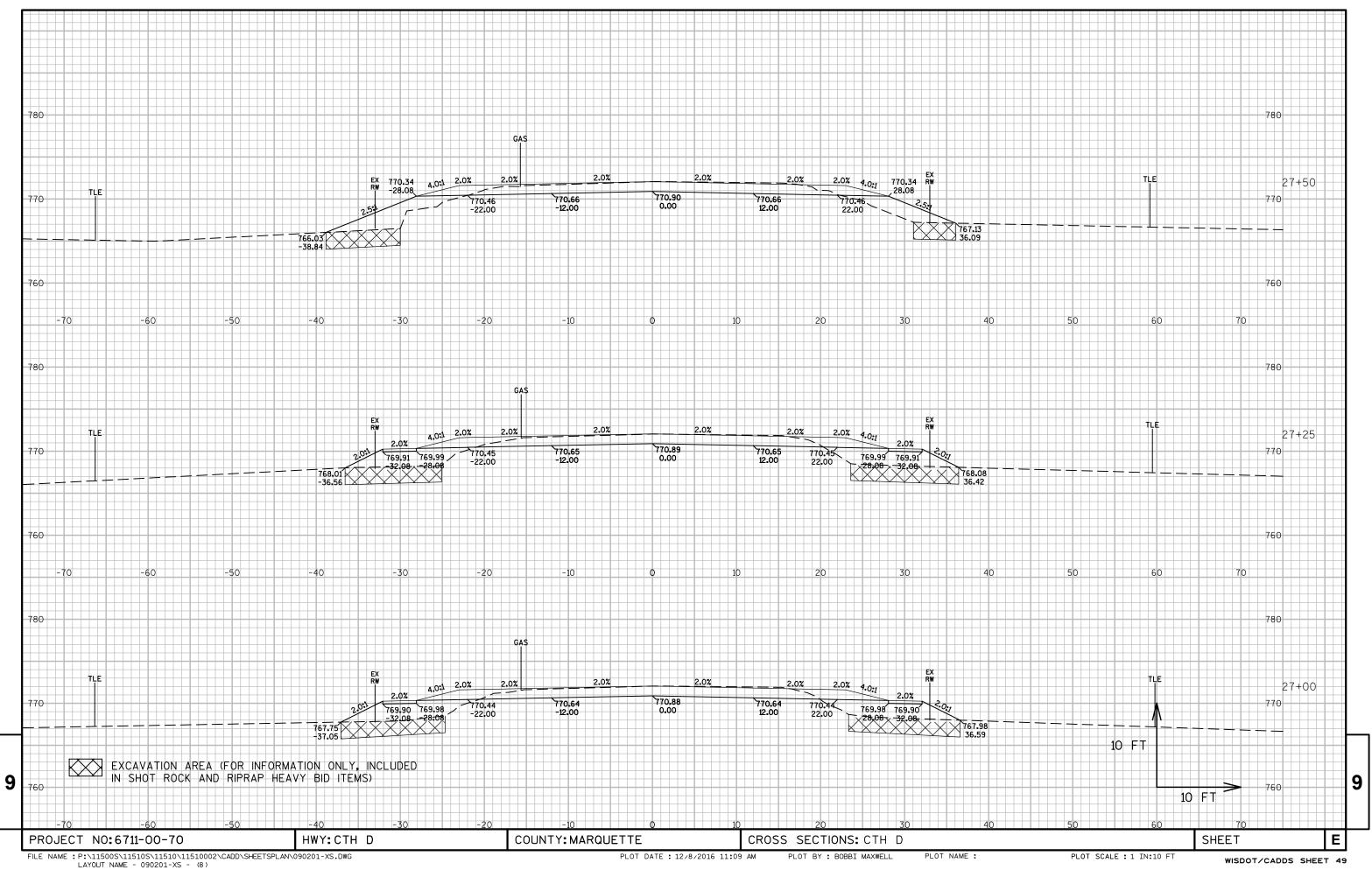


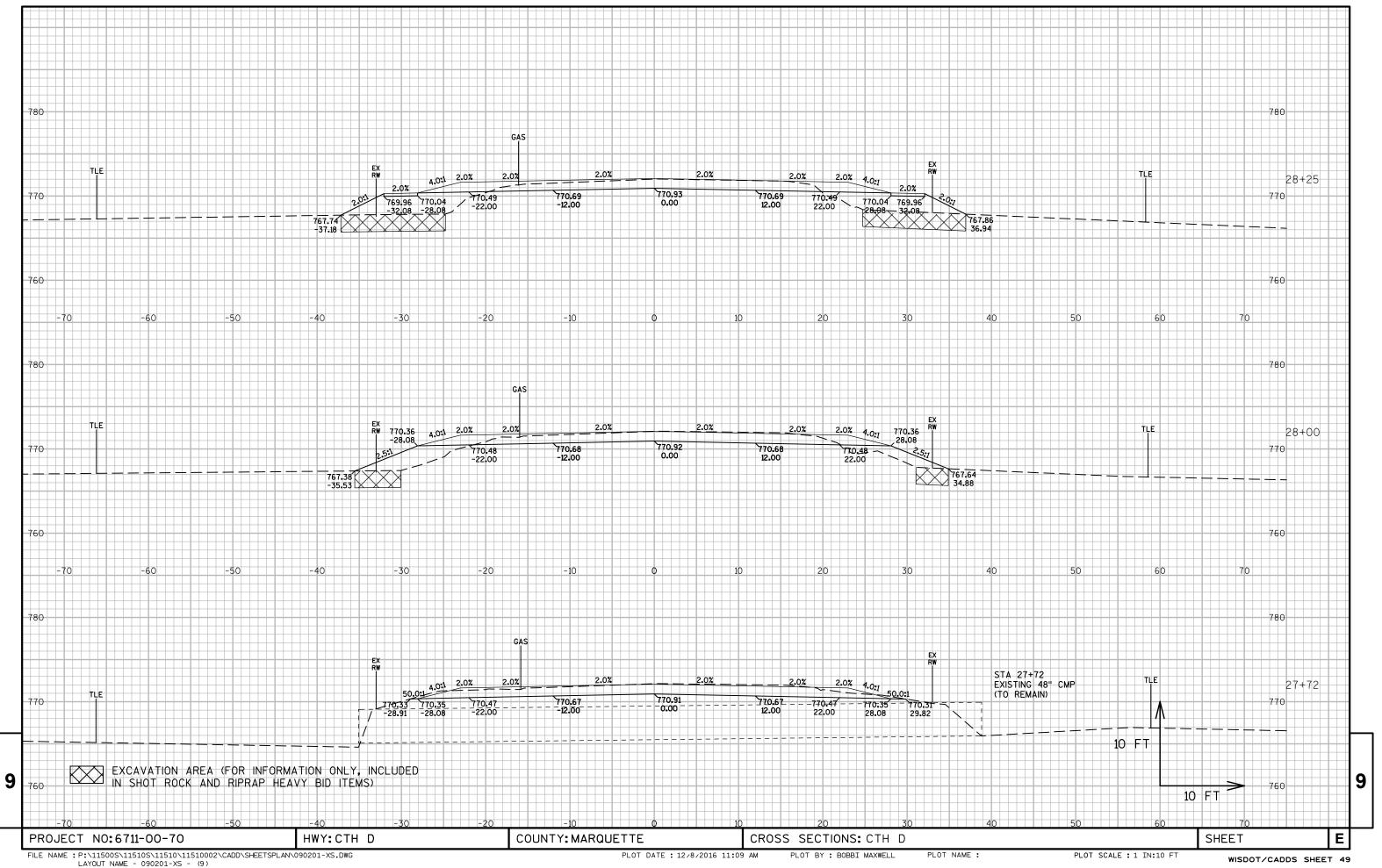


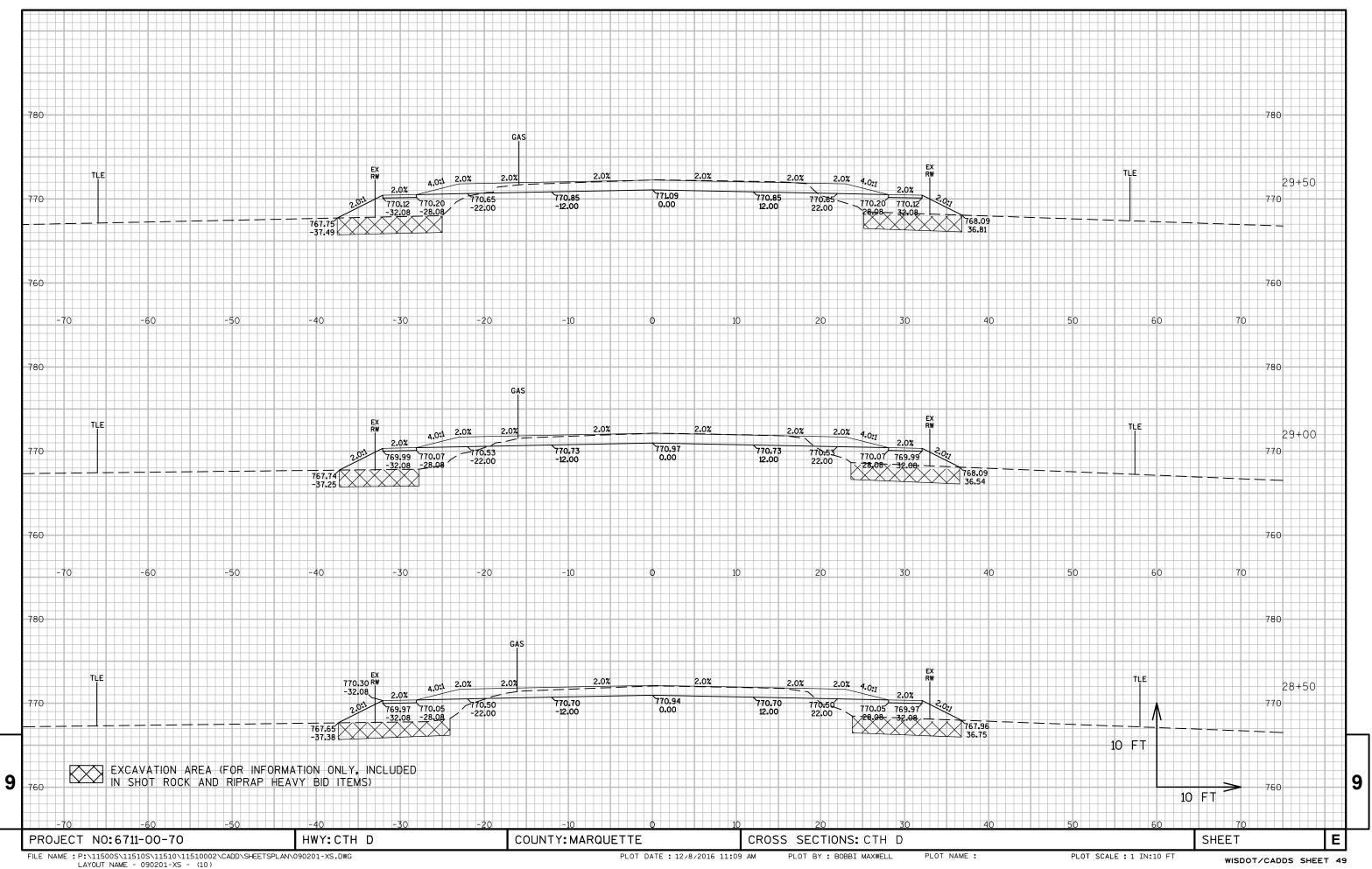


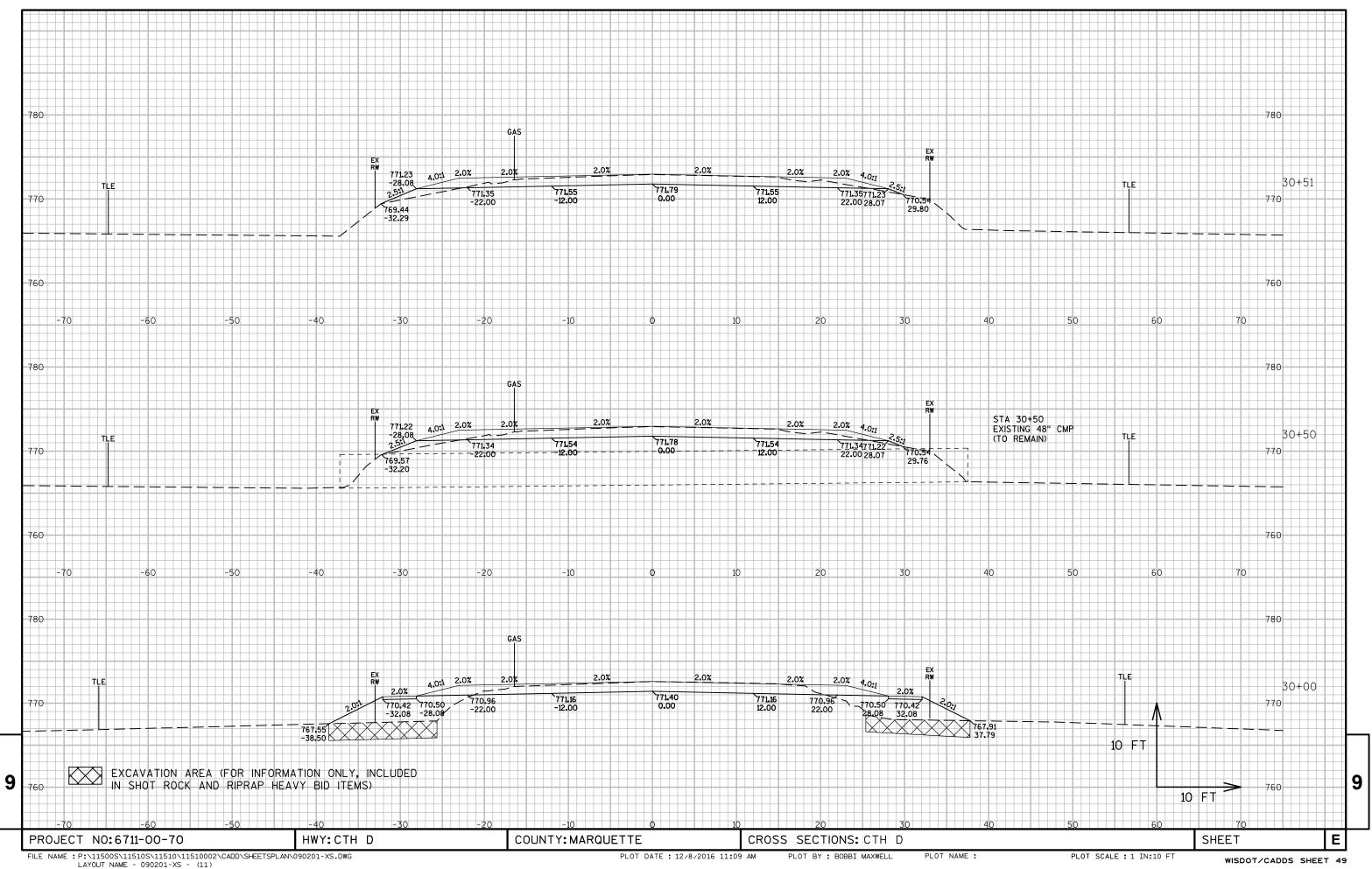


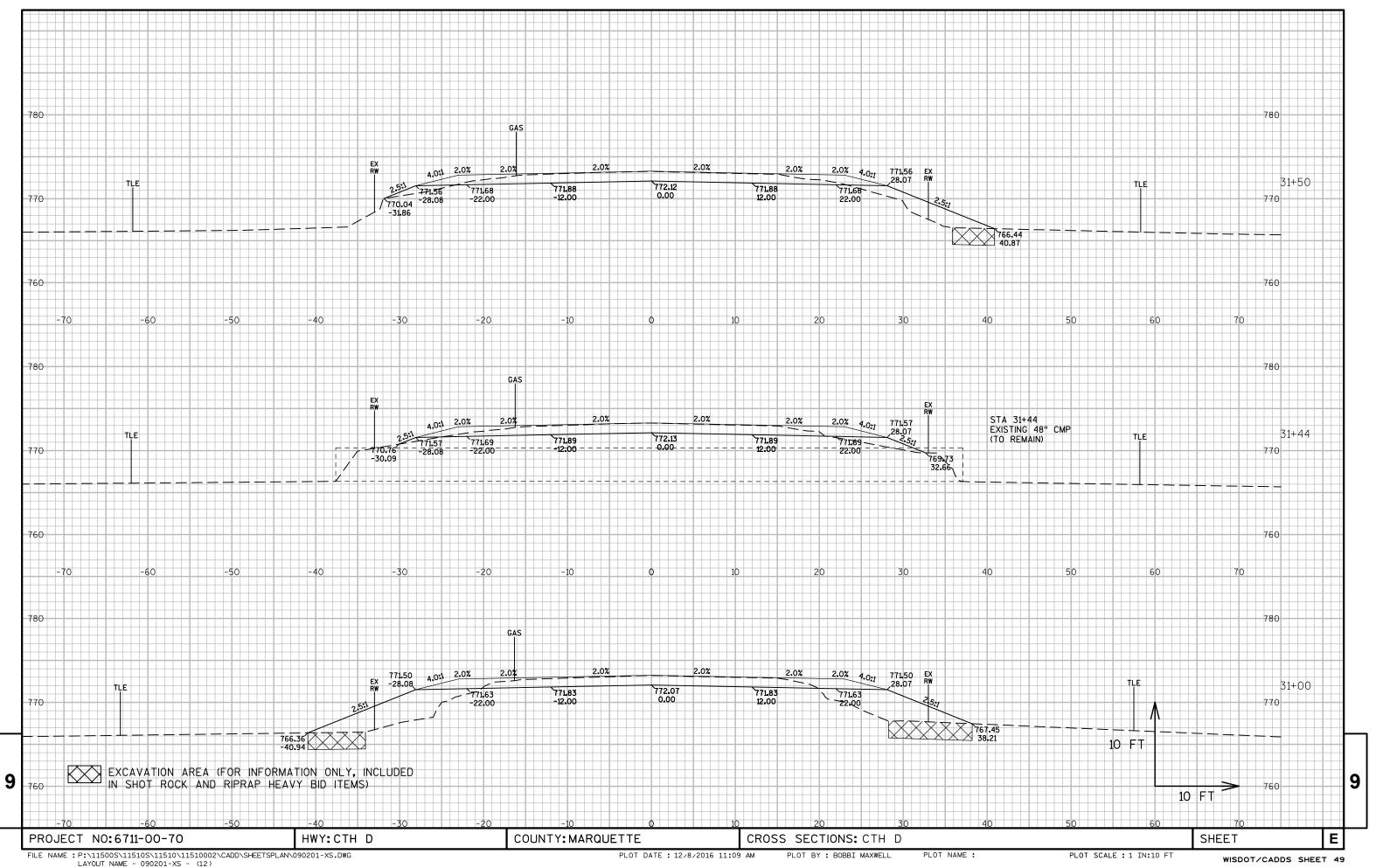


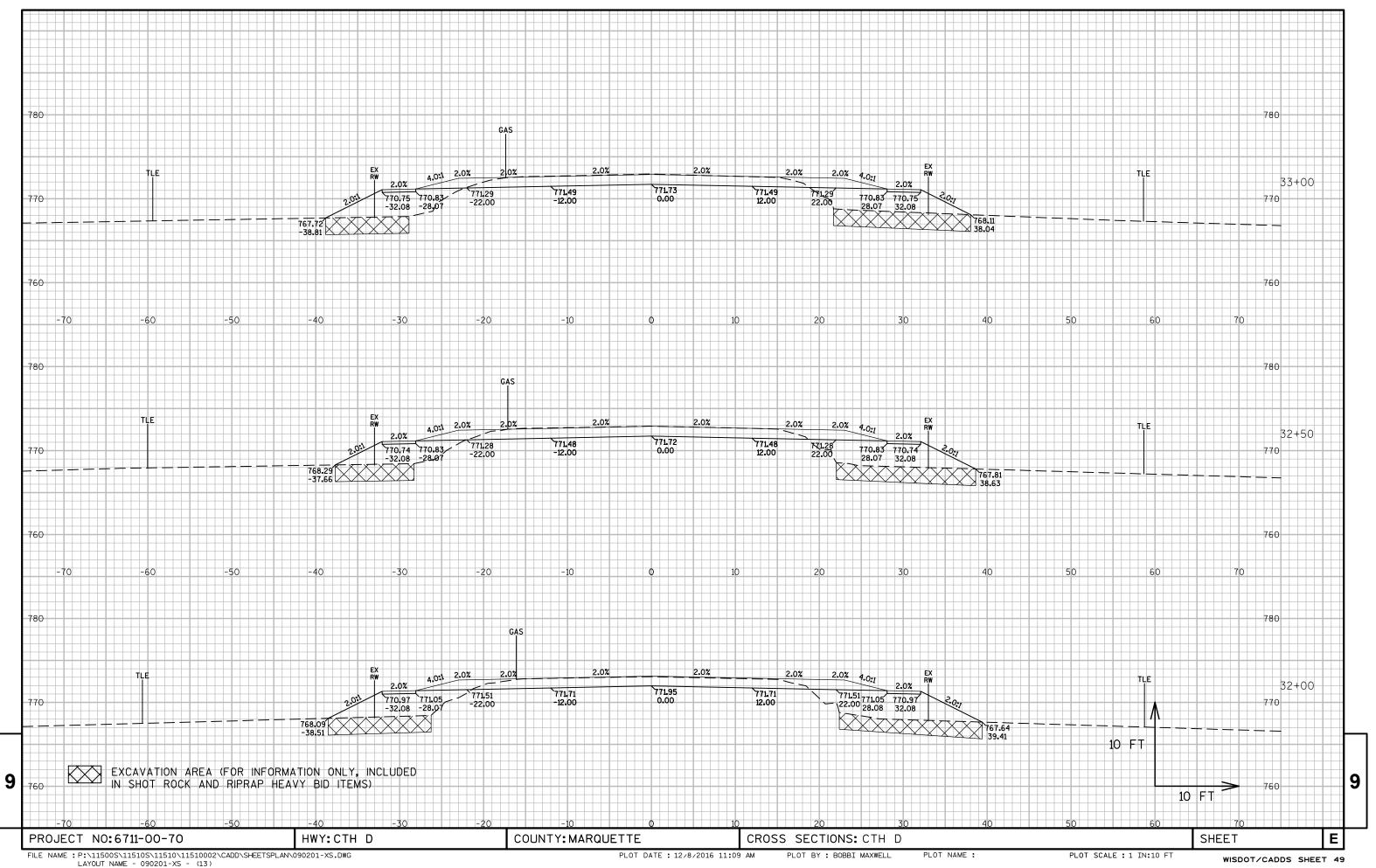


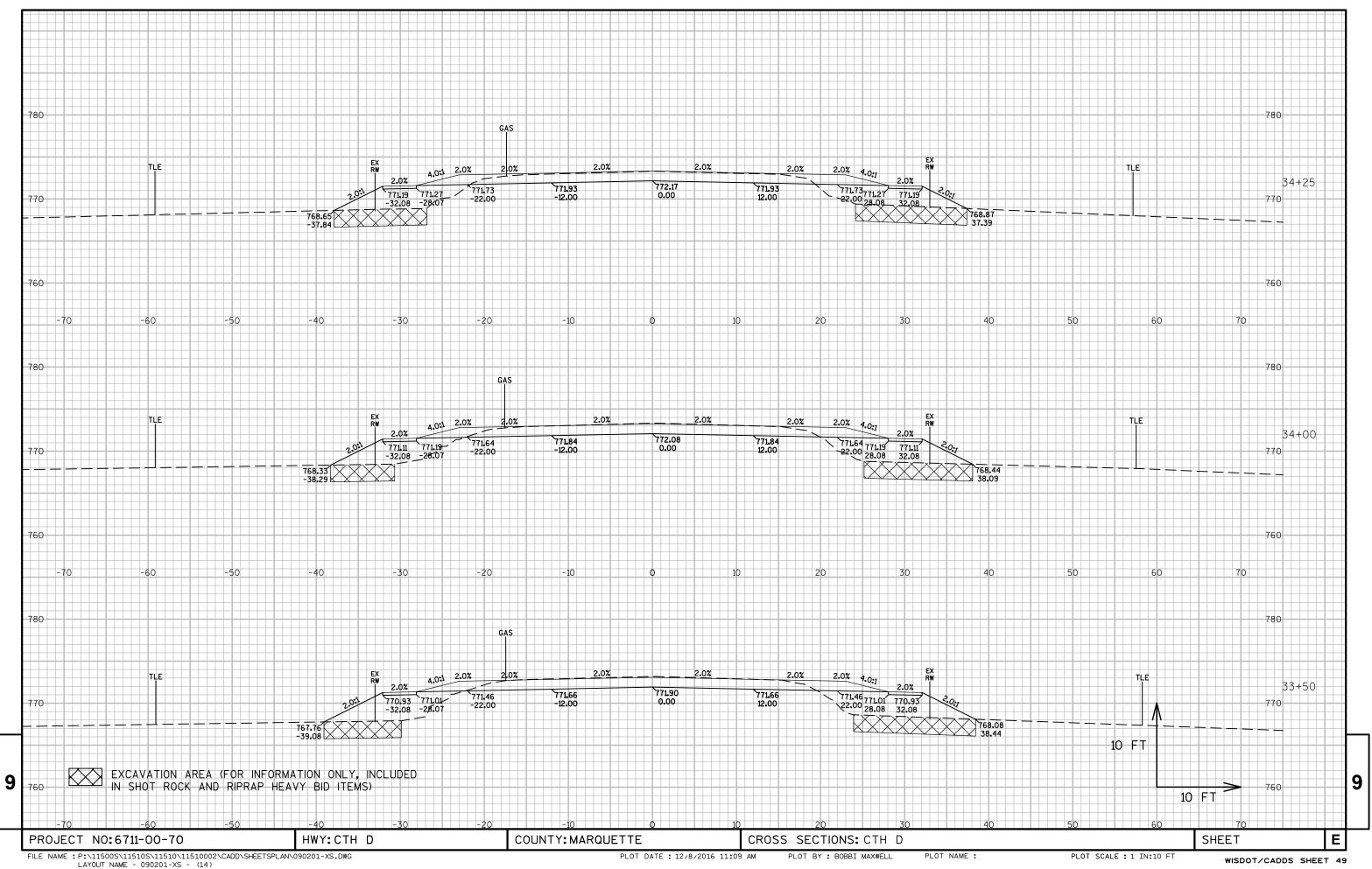


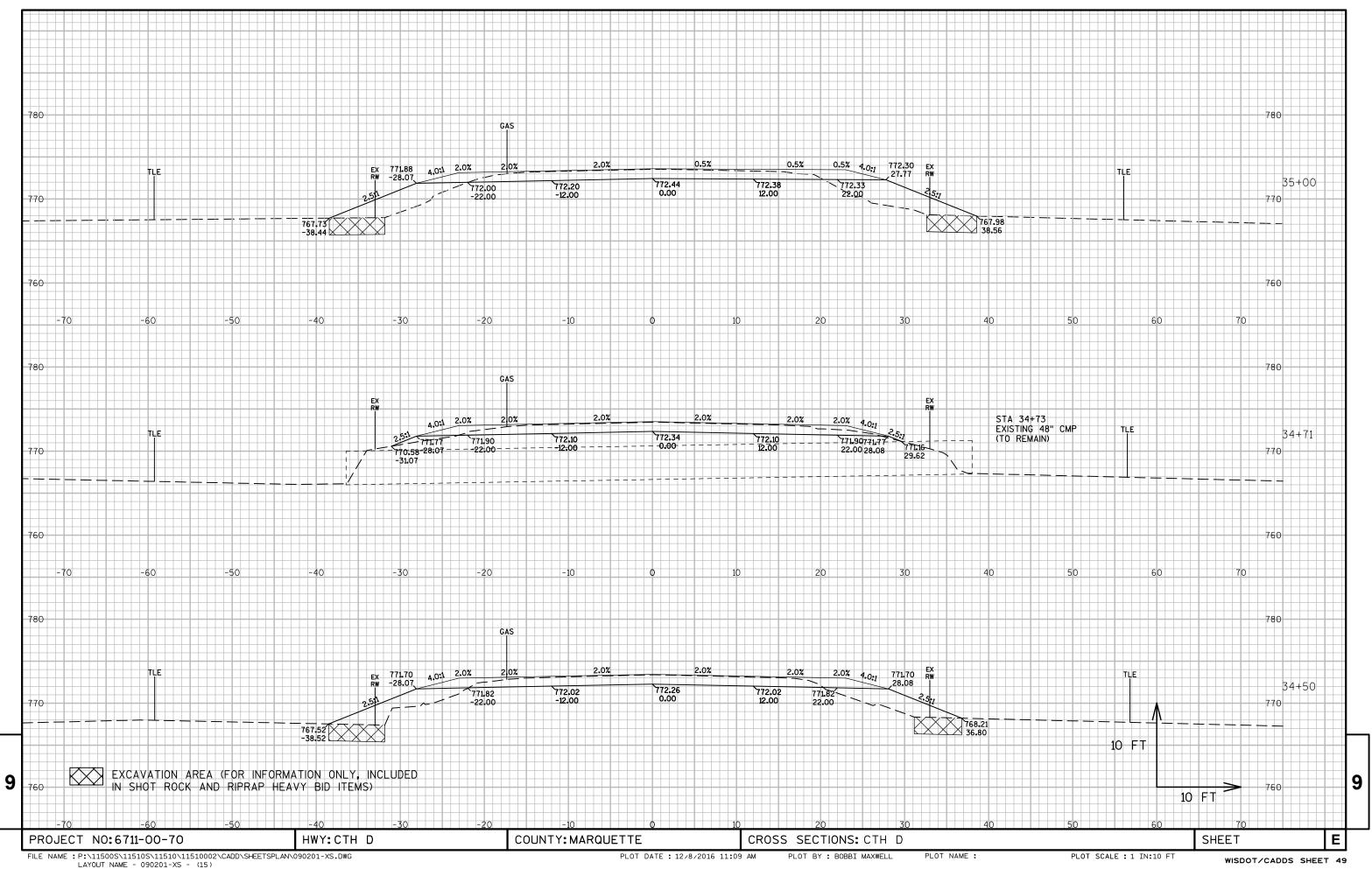


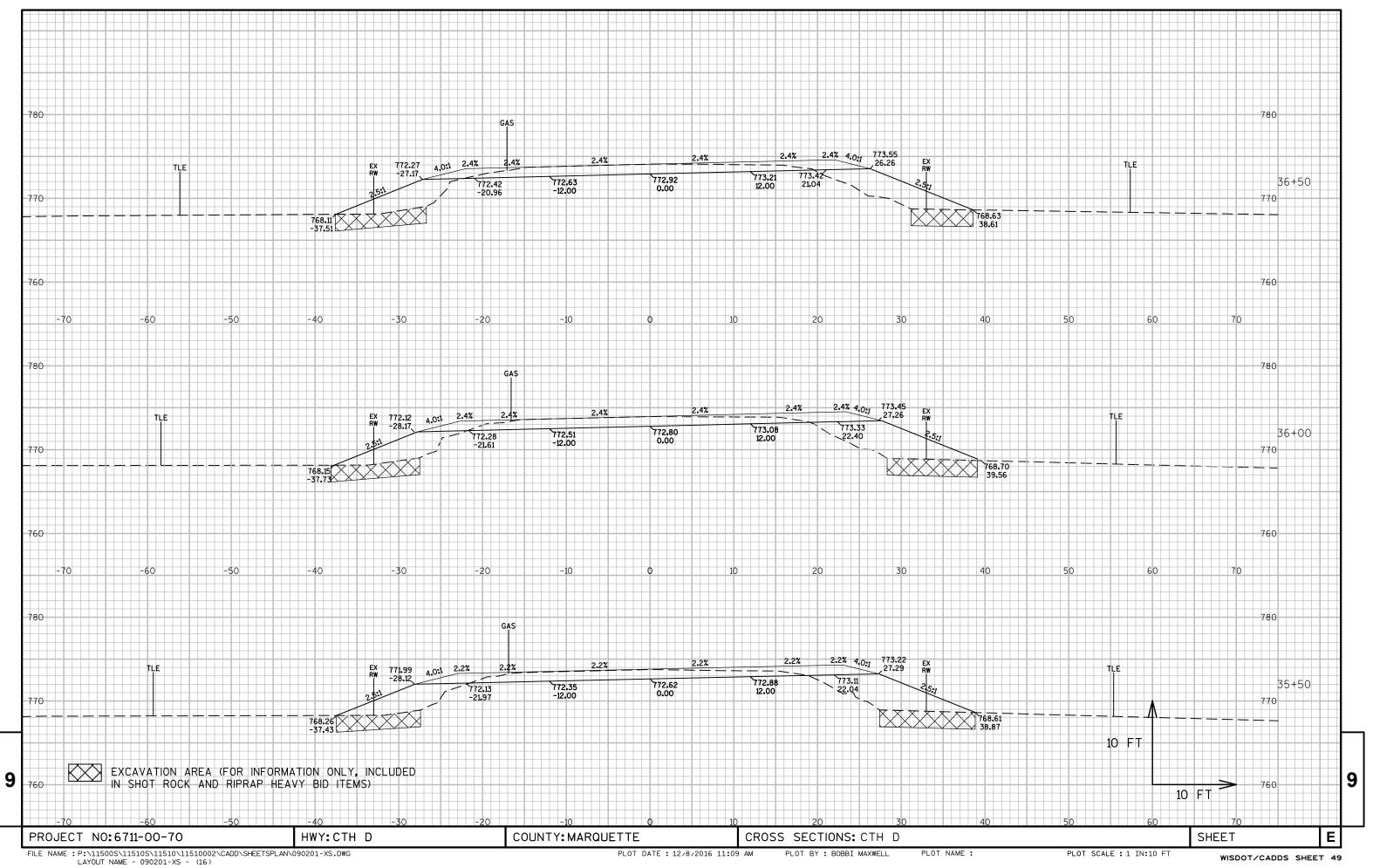


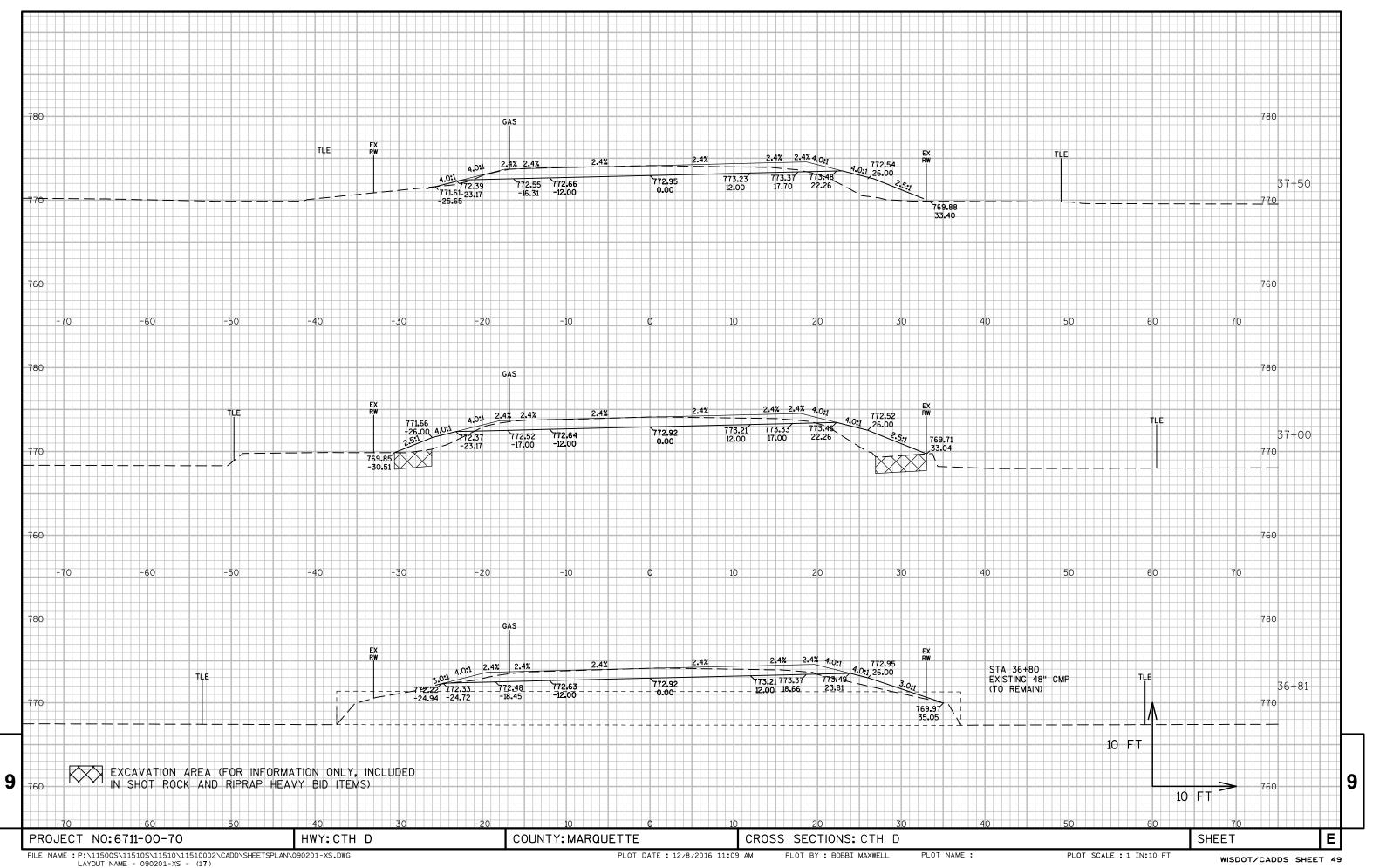


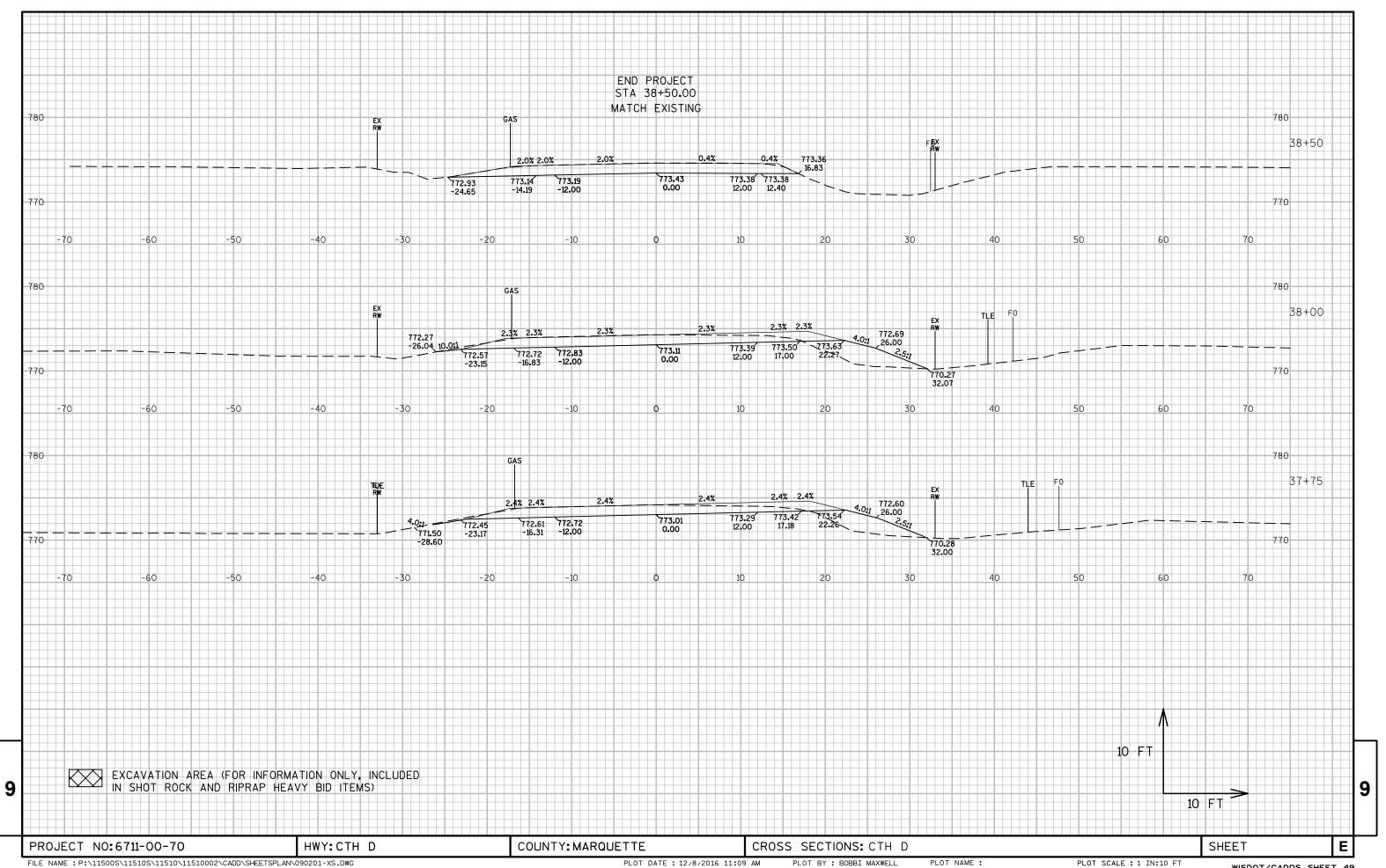














Wisconsin Department of Transportation

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