RHI MAR 2016 FEDERAL PROJECT STATE PROJECT STATE OF WISCONSIN ORDER OF SHEETS PROJECT CONTRACT ____1177-11-71___ Section No. 1 Title DEPARTMENT OF TRANSPORTATION Section No.-2___ Typical Sections and Details Section No._3___ Estimate of Quantities Section No._3___ Miscellaneous Quantities Section Na._4___ Right of Way Plat PLAN OF PROPOSED IMPROVEMENT Section Na._5___ Plan and Profile Section No.6--- Standard Detail Drawings TOMAHAWK-MINOCQUA Section No._7___ Sign Plates Section No.-8___ Structure Plans BEARSKIN TRAIL STRUCTURE B-43-60 Section No.-9___ Computer Earthwork Data Section No.-9--- Cross Sections **USH 51** TOTAL SHEETS = 130 ONEIDA COUNTY 1177-11-71 PROPOSED CONSTRUCTION:2016 DESIGN DESIGNATION = _6,800_ A.A.D.T. 2016 A.A.D.T. 2036 = _8,700_ D.H.V. 2036 = _1,818_ PROPOSED STRUCTURE B-43-60 = _68/32__ = _13.8%__ STA. 1204+06.30 DESIGN SPEED = _55_MPH ESALS T-39-N 0NE CONVENTIONAL SYMBOLS PROFILE REMOVE EXISTING STRUCTURE B-43-0276 CORPORATE LIMITS B ORIGINAL GROUND STA. 1203+58 PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT L ___ _ SPECIAL DITCH EXISTING RIGHT OF WAY STATE OF WISCONSIN GRADE ELEVATION DEPARTMENT OF TRANSPORTATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE EXISTING CHILVERT FIBER OPTIC PROPOSED CULVERT SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE MARSH AREA "Coordinates on this plan are referenced to the Wisconsin County UTILITY PEDESTAL Coordinate System (WCCS), Oneida County." POWER POLE TOTAL NET LENGTH OF CENTERLINE = N/A, PROJECT 1177-11-71 TELEPHONE POLE WOODED OR SHRUB AREA ----PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 10

GENERAL NOTES

- 2. DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE FERTILIZED, SEEDED AND MULCHED OR COVERED WITH EROSION MAT AS DIRECTED BY THE ENGINEER.
- 3. 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.
- 4. PERMANENT SIGNING STATIONING WAS CALCULATED FROM THE PHOTOLOG AND MAY BE PLUS OR MINUS 50 FEET.
- 5. ALL QUANTITIES, NOTES, AND REFERENCES TO BEARSKIN TRAIL STATIONING REFERS TO THE PROPOSED ALIGNMENT, NOT THE EXISTING ALIGNMENT.
- 6. ALL USH 51 SURFACES THAT ARE DISTURBED DURING CONSTRUCTION AND THAT ARE OPEN TO TRAFFIC MUST HAVE AN ASPHALTIC SURFACE PAVED BY THE END OF EACH WORKING DAY.

<u>UTILITIES</u>

CALVIN KLADE FRONTIER COMMUNICATIONS OF WISCONSIN (715) 847-1525

CLAYTON VIRCKS WISCONSIN PUBLIC SERVICE CORPORATION (715) 848-7317

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

NORTHERN REGION HEADQUARTERS 107 SUTLIFF AVENUE RHINELANDER, WI 54501 JON SIMONSEN (715) 365-8916



PROJECT NO: 1177-11-71

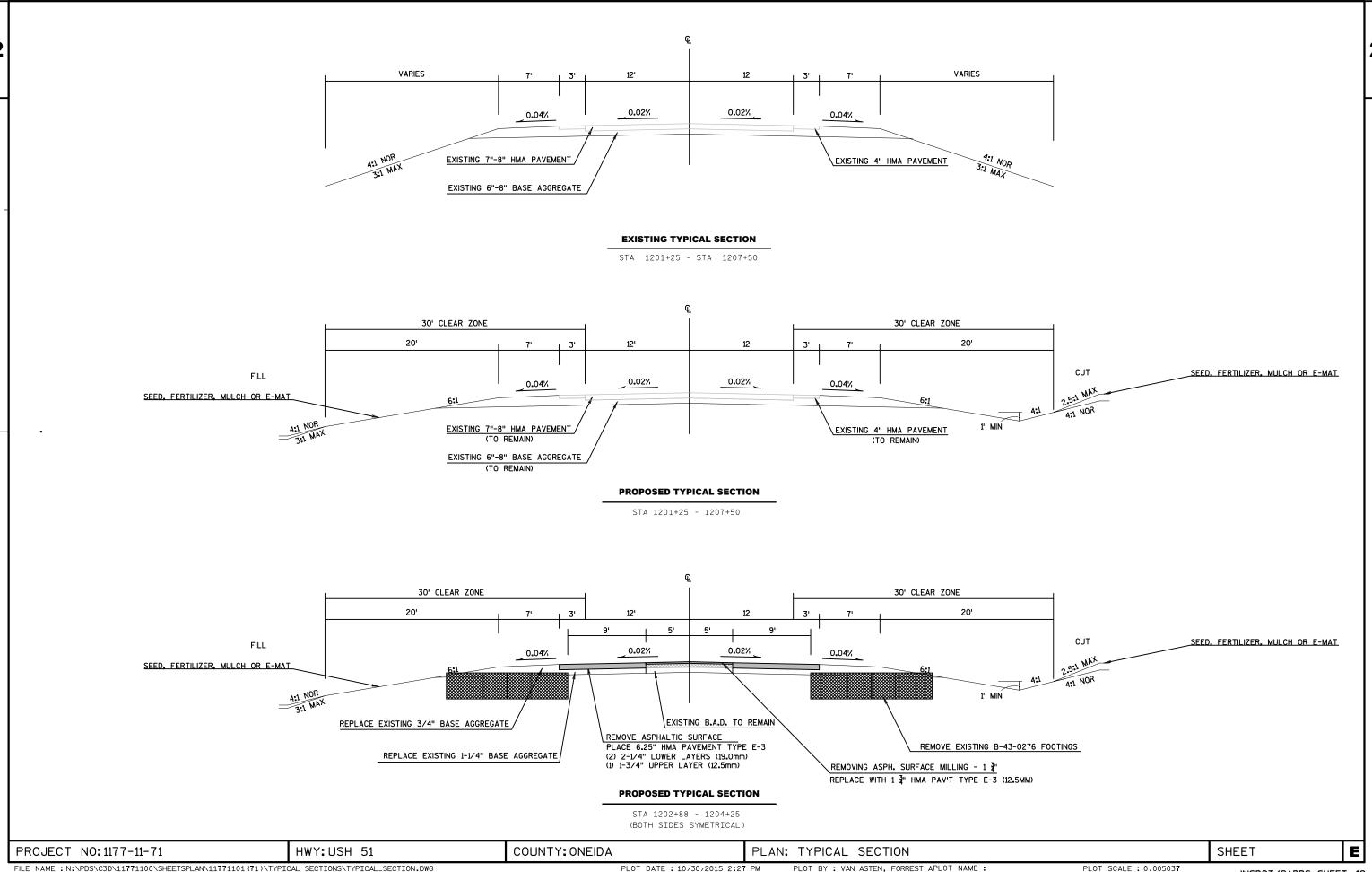
HWY: USH 51

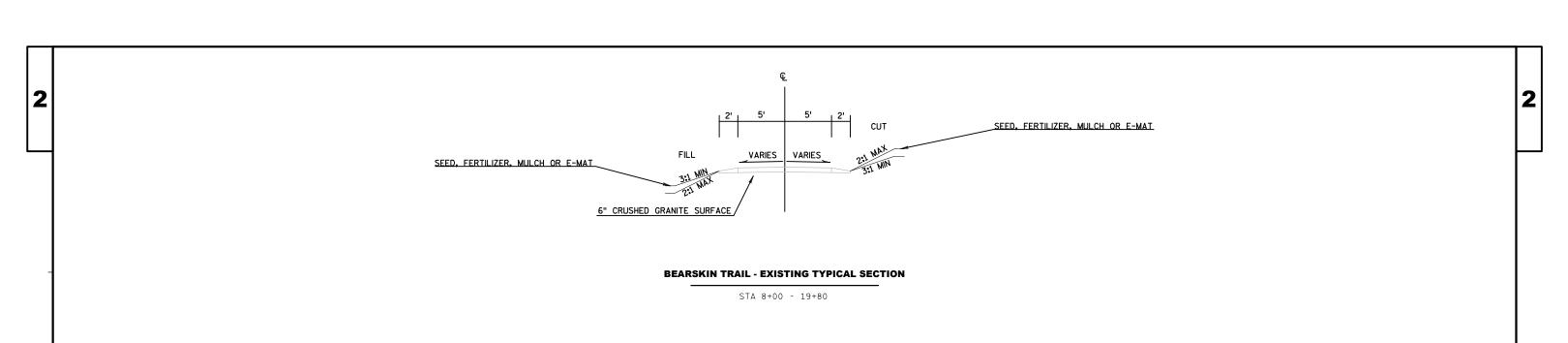
COUNTY: ONEIDA

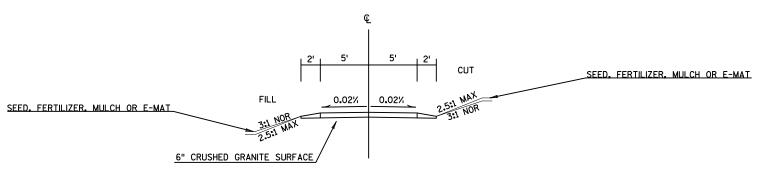
GENERAL NOTES

SHEET

E

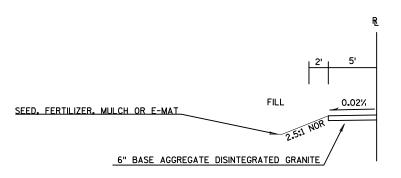






BEARSKIN TRAIL - PROPOSED TYPICAL SECTION

STA 8+00 - 19+80



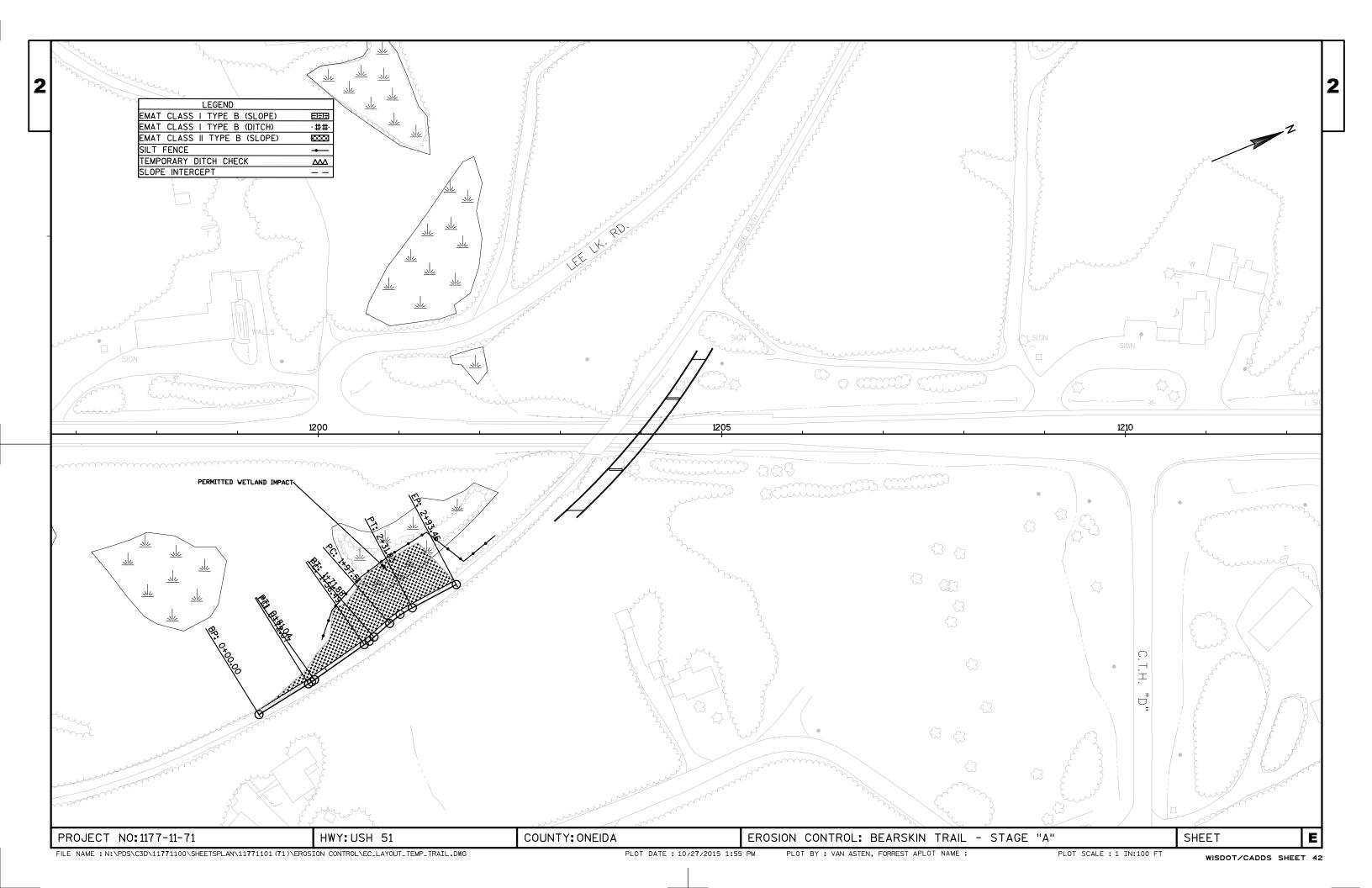
BEARSKIN TRAIL - TEMPORARY TRAIL SECTION

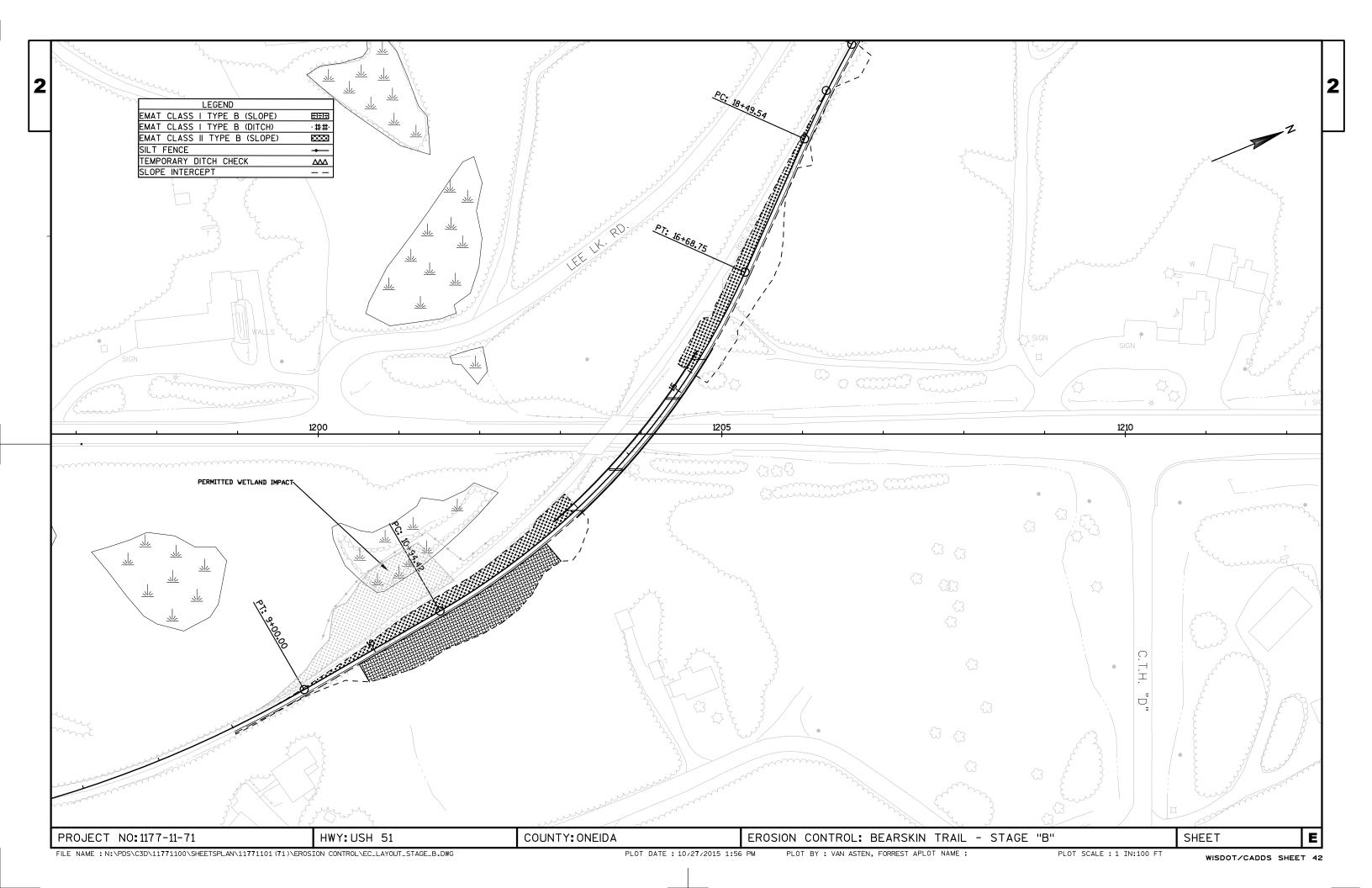
STA 0+00 - 2+94

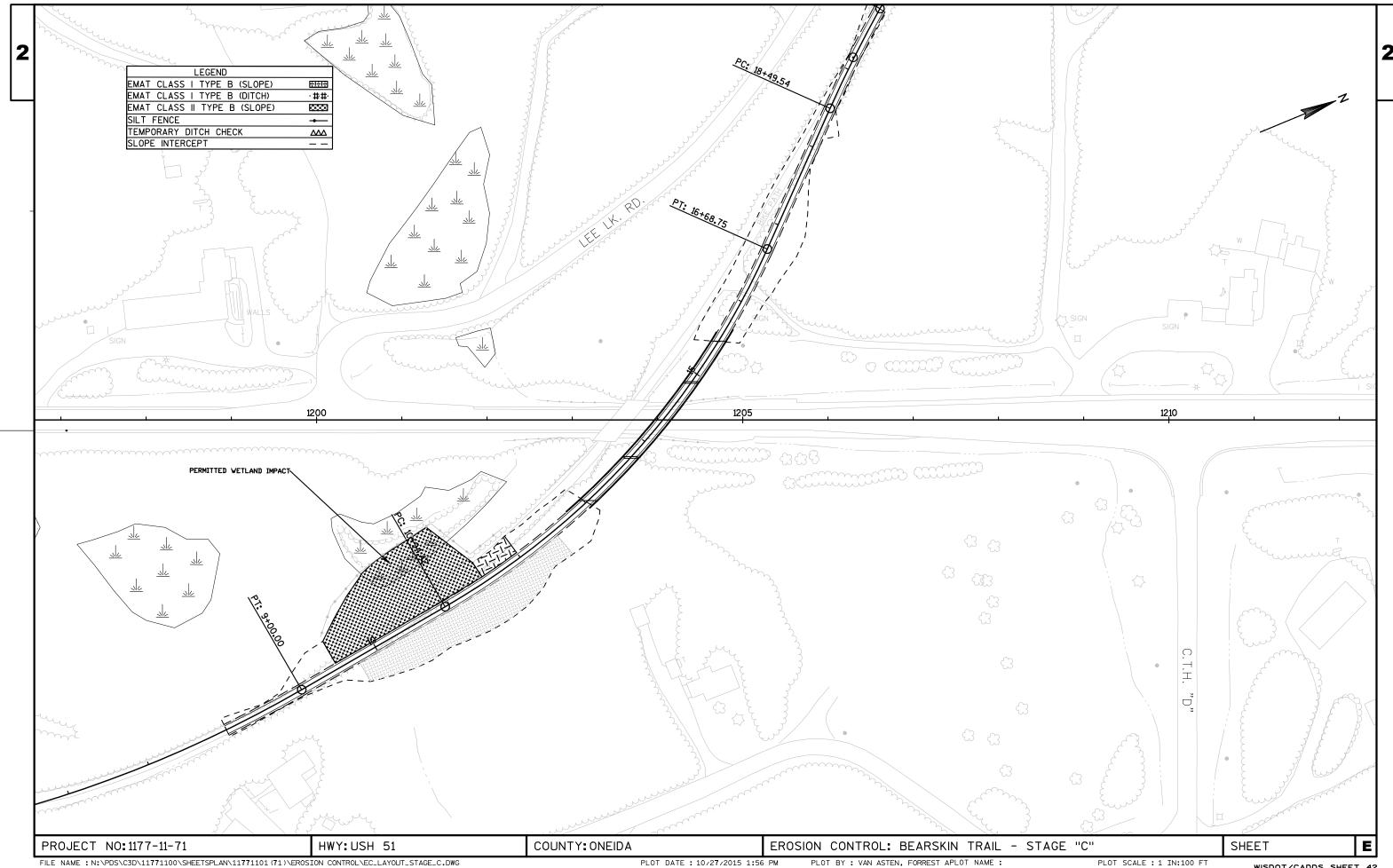
PROJECT NO: 1177-11-71 HWY: USH 51 COUNTY: ONEIDA PLAN: TYPICAL SECTION

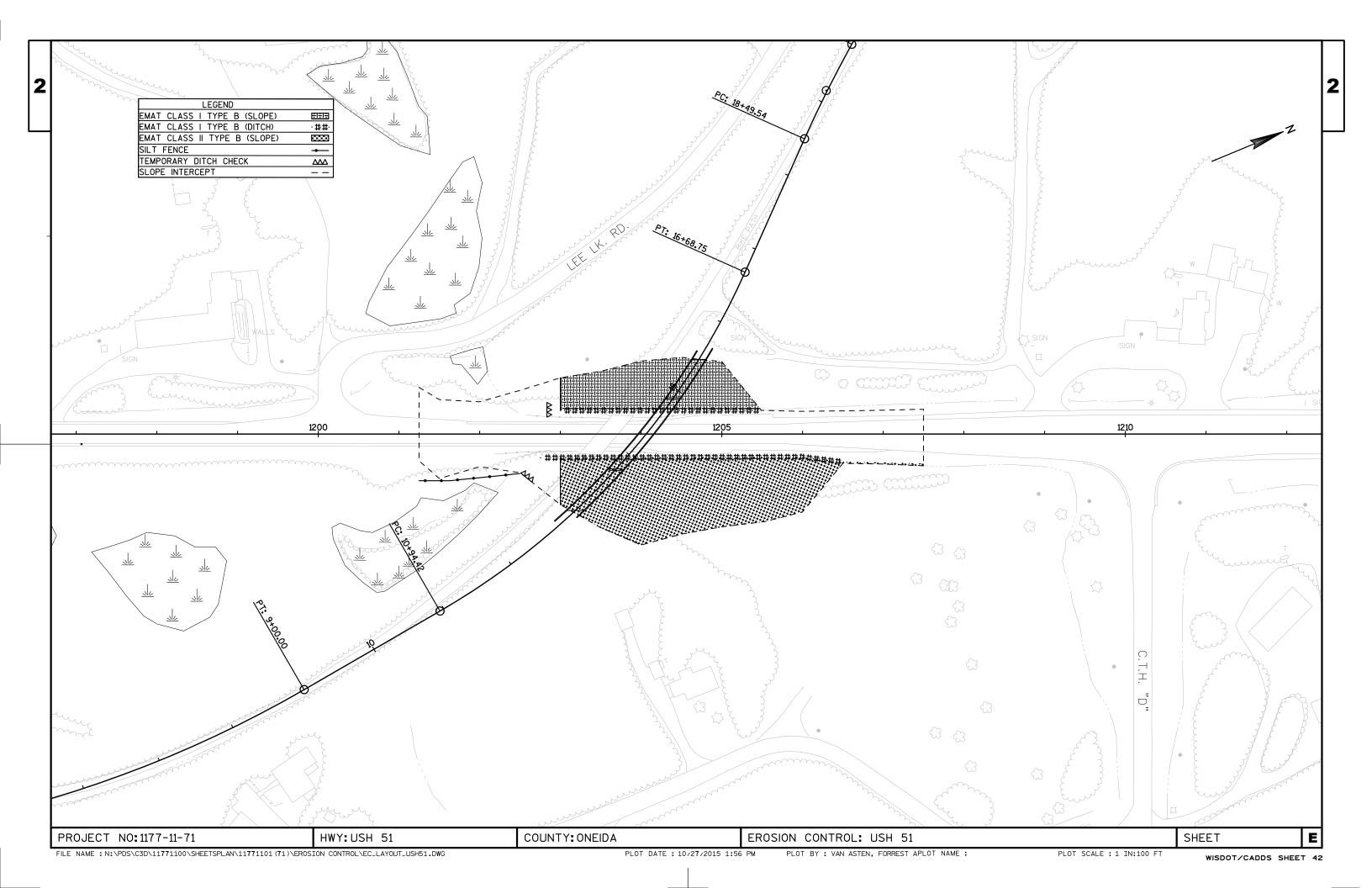
FILE NAME: N:\PDS\C3D\11771100\SHEETSPLAN\11771101 (71)\TYPICAL SECTION.DWG

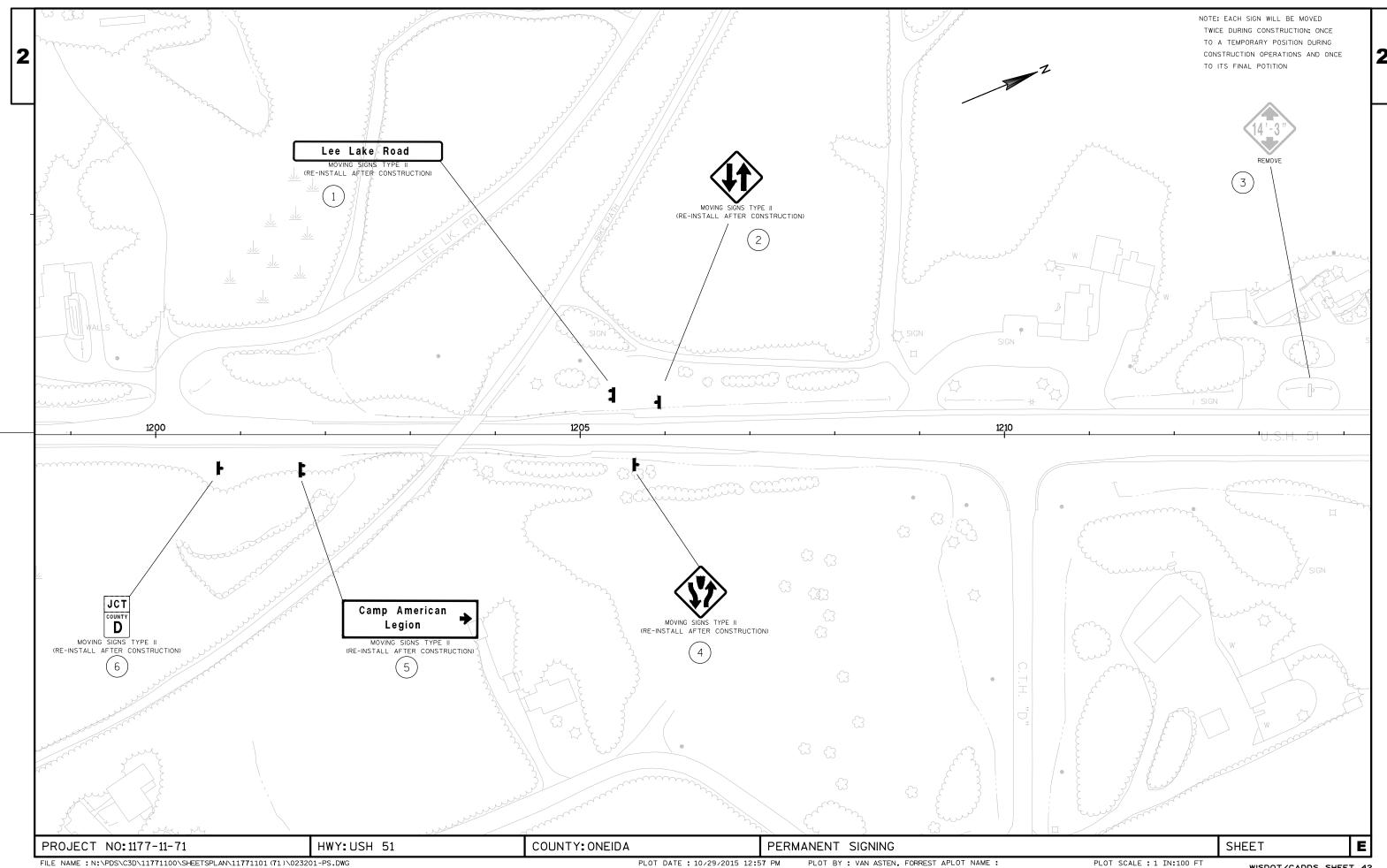
PLOT DATE: 10/30/2015 2:27 PM PLOT BY: VAN ASTEN, FORREST APLOT NAME: PLOT SCALE: 0.005037 WISDOT/CADDS SHEET 42











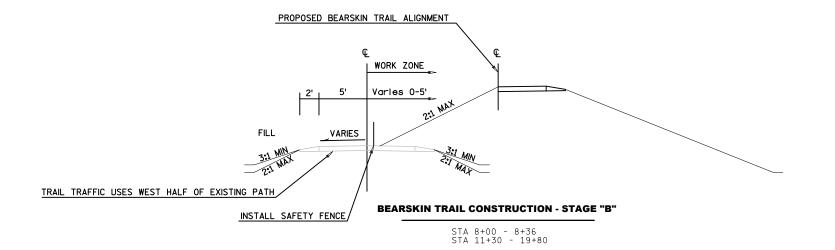
2

EXISTING BEARSKIN TRAIL ALIGNMENT

5' 2'

BEARSKIN TRAIL CONSTRUCTION - STAGE "A"

STA 8+36 - 11+30



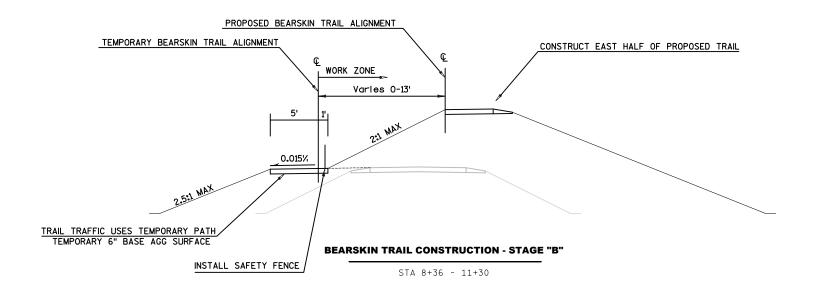
WORK ZONE

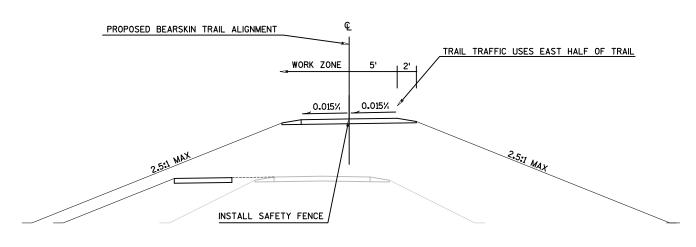
CONSTRUCT TEMPORARY BEARSKIN TRAIL
TEMPORARY 6" BASE AGG SURFACE

PROJECT NO:1177-11-71 HWY:USH 51 COUNTY:ONEIDA WORK ZONE TRAFFIC CONTROL: BEARSKIN TRAIL STAGING SHEET E

2

|2

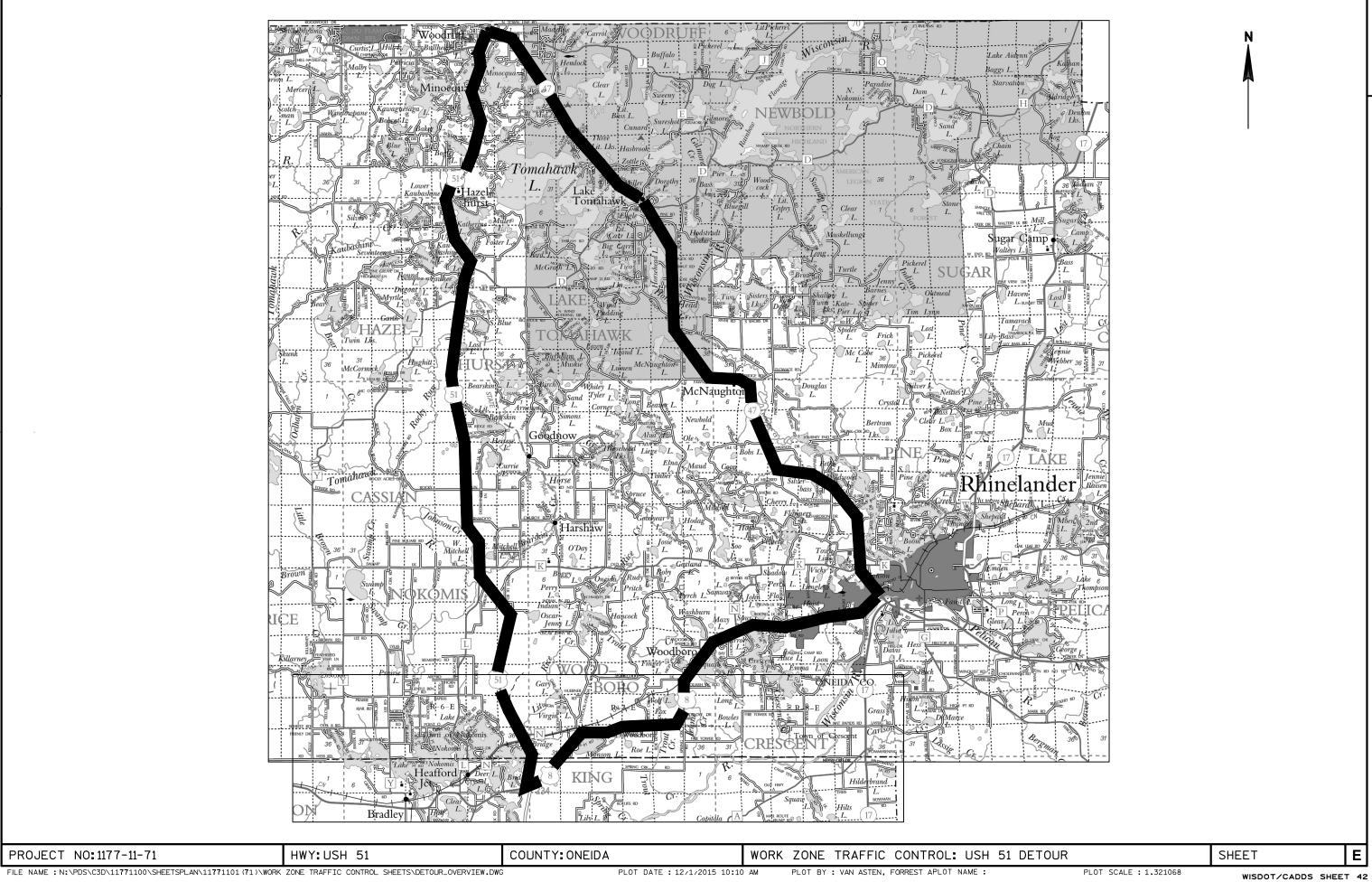


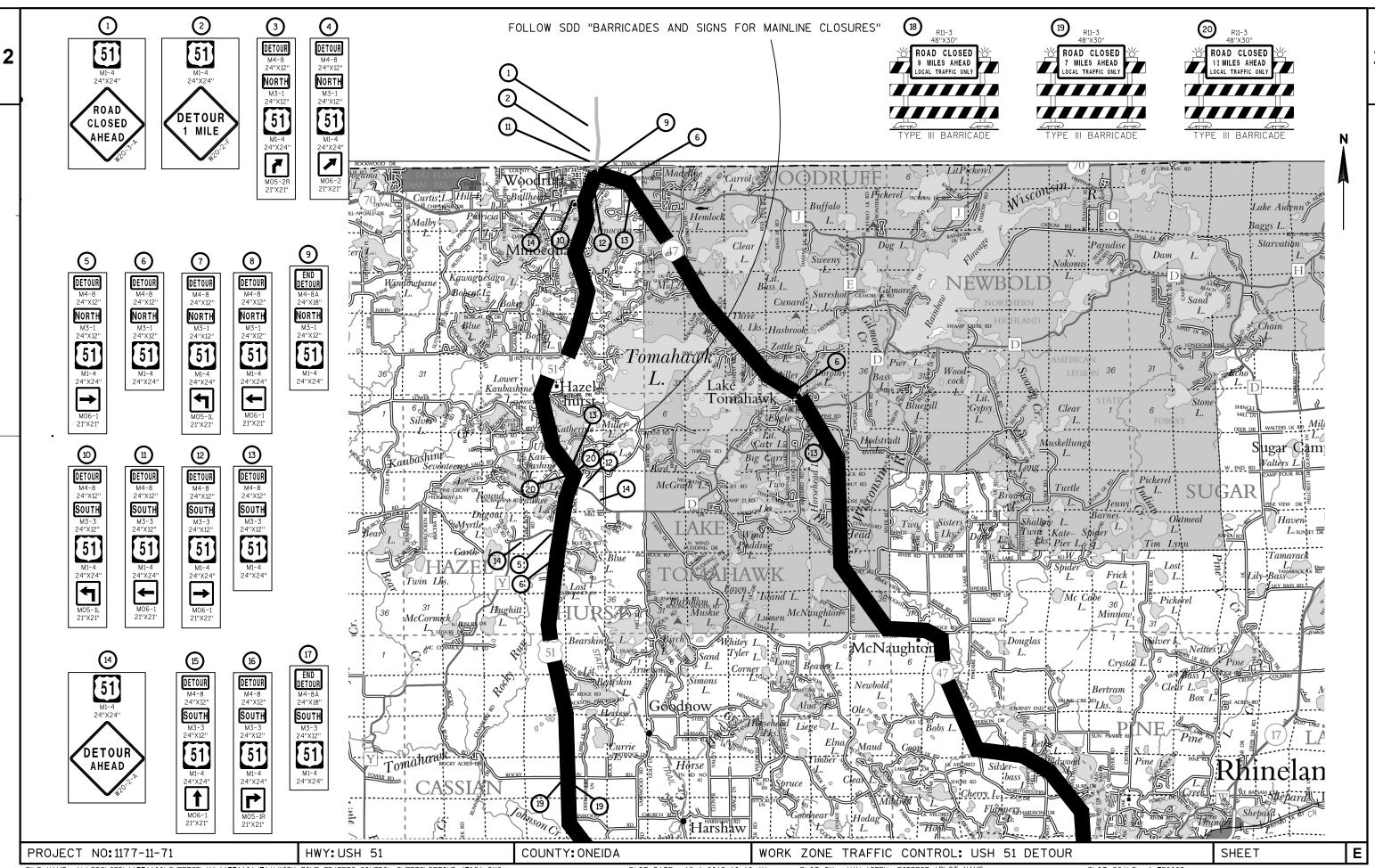


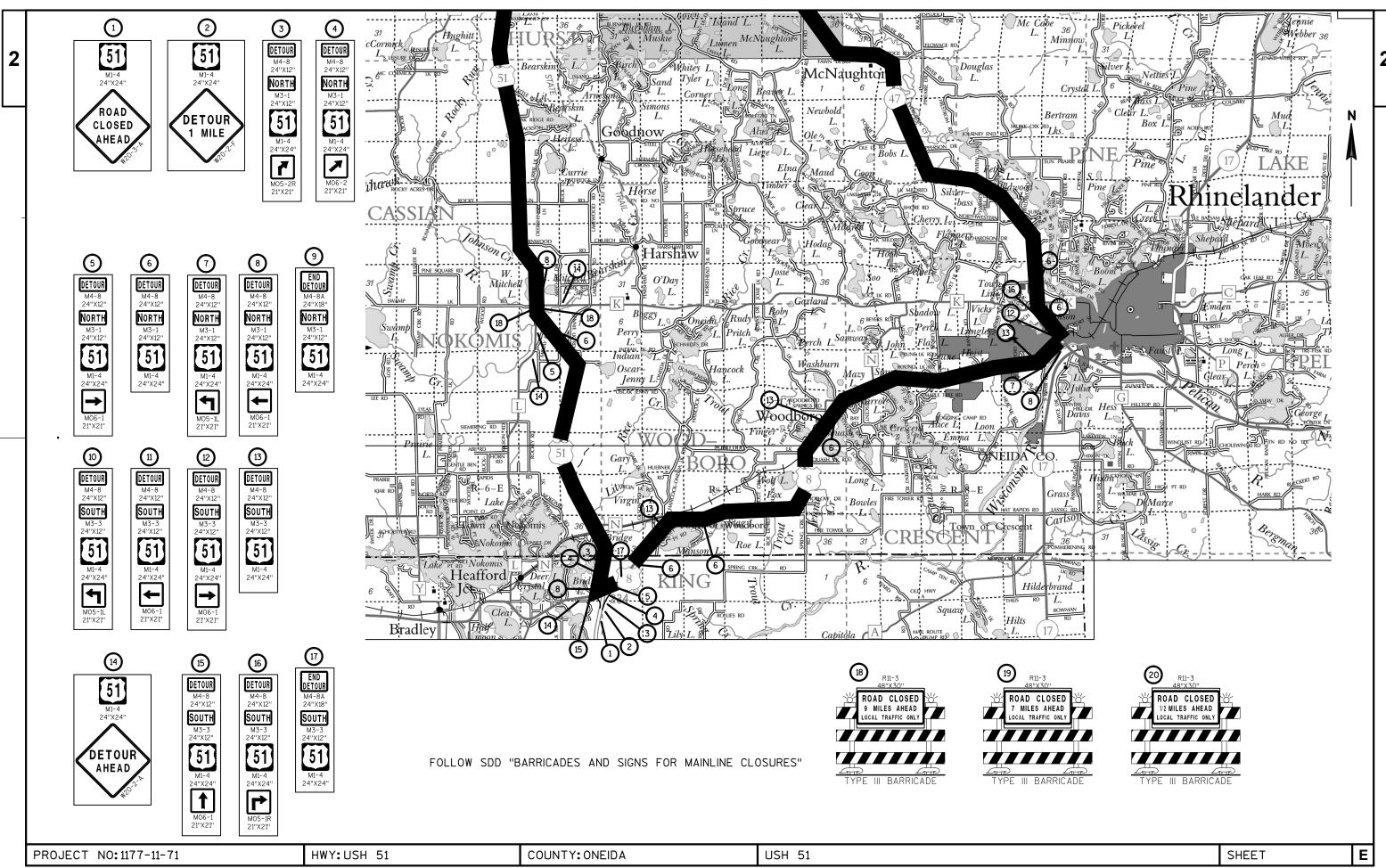
BEARSKIN TRAIL CONSTRUCTION - STAGE "C"

STA 8+00 - 19+80

PROJECT NO:1177-11-71 HWY:USH 51 COUNTY:ONEIDA WORK ZONE TRAFFIC CONTROL: BEARSKIN TRAIL STAGING SHEET E









rion L.	L. Jak	E DAM NO SOL			0
Merceri	Z. 22 L.	Minoeda		A7 Clea	37 / i
0 0			To The There	L.	14
Scotch-	Windowpane Kawag	uesara de la contraction de la			$f \longrightarrow \widehat{f}_{i}$
Scotch— man	Windowpane Kawag	3 4		hd T.	Bas
	Bobcat			LK -RD	
	HAHN RO	J Barn J Boice	TO CHINA	Z Z E E E	i.
/	BOILD BOILD	ADD COUNTY		O FEE Three	
: <	Blue		RO RO CHANNE	Lit.	Lks. L
$\geq R$. \int_{0}^{∞}				A. W.	3
الاستراكية	A LIK CONDINANCE	(81500 RD>58	Fom.	ahmyb Co	GRITZN
$r = \zeta$		51	SE TOM		(A)
L . $^{\sim}$	36) // 31	D Farman A		31 344 I 21-2	
- TO THE REAL PROPERTY.	~~~//	Kaubashine Haz	el L	Lanc z	p
NINI RD	J JOWER - S	Lawso STITE	Stall	5 Tomal	iašvi
	1 6	Tipe (6 55 20 3	
3	Silver	STON	Miller		
()	\\\\\\\	Kathen	ne Miller	NO TO THE REST OF THE PARTY OF	经产品
کرنز ۲	1 5 7 1 - 1 1 T	50	Foster L.	- Contraction of the Contraction	Catr
500	Kaubashing Seventeens	Kau	Foster L	THRUSH RD	Big Co
. 6	Seventeen Seventeen Seventeen	Bashin	Ku	d I	<u>w:</u>
	The state of the s			Maria CR 90	
Š:)	PINE CROVE DR	Lei		IcGrath L. Wildo RD	The
uawn	HIDEAWAYAN	RUBASHINE ROTATIREE			RD
3/	D	ngont L.	MIL RD;	TALE NO.	yer Lke.
ž)	Bear D			LAKE	
54 /	Bear L	(1) 18 (1	3 10 0		ind S
12/	Garth	L.		N WIND DR P	dding
#	T TAZT	57	S. Blue BIG BUCK	TOTAL SE	<i>E.</i>
()			J.L. do -	LUXAY ETV	TVA
	760		(())		\A/'
7	Twin Lhs.	Y	7-2	I ON THE	. W. J
Skunk	Twin Llis.	Y Loss	10 36 a Bull	Fawn	₹ }}Istā
Skunk L.) 3	Los Hughitt	36 A	Fawn	70
Skunk L.	36 McCormick	Hughitt	JRS ZA	Fawn Round Woods Ro Muskie	Sista
Skunk L.	36 McCormick	Hughitt Hughitt	IRSTA	Muskie L.	Lum Enun L
Skunk L.	36 McCormick	Hughitt L. Bea	IRS IN	Muskie L. Birch Whitey	Lum Edward
Skunk L.	36 McCormick Hause	Hughitt Hughitt	IRS IN	Muskie L. Birch Whitey Sand Tyler	Lum Edward
Skunk L.	36 McCormick Lister De La LISTE	Hughitt FI	JRS Z	Birch Whitey	Lum L. L
Skunk L.	36 McCormick Lister De La LISTE	Hughitt FI	JRS Z	Miskie L. Rirch Whitey Sand Tyler L. Corr	Lum Edward
Skunk L.	36 McCormick Lister De La LISTE	Hughitt FI	JRS Z	Birch Whitey	Lum L. L
Skunk L. 5	36 McCormick Lister De La LISTE	Hughitt FIU	rskin L. Arne m	Muske L. Birch Whitey Sand Tyler L. Corr L. Simons L. has	Lum L. L
Skunk L. S	36 McCormick Lister De La LISTE	Hughitt FIU	rskin L. Arne on Little Republic	Birch Sand Tyler L. Corn L. Simons	Lum L. L
Skunk T. Solollag man state of the state of	36 McCormick Lister De La LISTE	Hughitt FIU	rskin L. Arne m	Muske L. Birch Whitey Sand Tyler L. Corr L. Simons L. has	Lum L. L
Skunk L. Sollad was seen to see to se	36 McCormick Lister De La LISTE	Hughitt FI	rskim L. Arnelyn Arnelyn General Gener	Muske L. Birch Whitey Sand Tyler L. Corr L. Simons L. has	Lum L. L
Skunk L. Son Con Con Con Con Con Con Con Con Con C	37 McCormich Issue L. L. Lisue M. A. C.	Hughitt FIU	rskim L. Arnelyn Arnelyn General Gener	Muske L. Birch Whitey Sand Tyler L. Corr L. Simons L. has	Lum L. L
Skunk L. Someway of the skunk o	36 McCormet Lesses III	Hughitt FIU	rskin L. Arne m	Muske L Rich Whitey Sand Tyler L Corr L Simons L. Make Make Make Make Make Make Make Make	Lum L. L
Skunk L. 50	36 McCormich Lissue L. L. Lissue A. C.	Hughitt FIU	rskin L. Arrecyn Arrecyn Arrecyn Currie Currie Springs	Muske L Rich Whitey Sand Tyler L Corr L Simons L. Make Make Make Make Make Make Make Make	Lum L. L
Skunk L. 50 Sometiment of the state of the s	36 McCormich Lissue L. L. Lissue A. C.	Hughitt FIU	rskim L. Arnelyn Arnelyn General Gener	Muskie L. Sand Tyler L. Corr L. Simons L.	Limit
Co. College	36 McCormet lesses Les usus de Comment les usus de Comment les usus de Comment de Commen	Hughitt FIU	rskin L. Arnelyn Begiskin Gereger Ge	Muske L Rich Whitey Sand Tyler L Corr L Simons L. Make Make Make Make Make Make Make Make	Linn Linn Linn Linn Linn Linn Linn Linn
Co. College	36 McCormich Lissue L. L. Lissue A. C.	Hughitt FIU	rskin L. Arrecyn Arrecyn Arrecyn Currie Currie Springs	Muske L Buch Whitey Sand Tyler Simons L Horse	Limit
Skunk L. Some and the state of	McCormet less L. L. Land M. L. L. Land M. L. L. Land M. L. L. Land M. L.	Hughitt Sea Con Sea Co	Trikin L. Arnelyn Grandskin Grandski	Muske L Grand Tyler L Simons L Horse N N N N N N N N N N N N N	Linn Linn Linn Linn Linn Linn Linn Linn
Co. College	37 McCormick Lesses Lesses Lesses Tomanares CASSIA	Hughitt Sea Con Sea Co	Trikin L. Arnelyn Grandskin Grandski	Muske L Grand Tyler L Simons L Horse N N N N N N N N N N N N N	Linn Linn Linn Linn Linn Linn Linn Linn
Co. College	37 McCormick Lesses Lesses Lesses Tomanares CASSIA	Hughitt Sea Con Sea Co	Trskin L. Arneyn Arneyn Hotels Golden	Muskie L. Sand Tyler L. Corr Simons L. Horse Harshaw	Linn Linn Linn Linn Linn Linn Linn Linn
Co. College	37 McCormick Lesses Lesses Lesses Tomanares CASSIA	Hughitt Sea Con Sea Co	Trikin L. Arnelyn Grandskin Grandski	Muske L Grand Tyler L Simons L Horse N N N N N N N N N N N N N	Linn Linn Linn Linn Linn Linn Linn Linn
appir Co	Tomalure R CASSIA	Hughitt FIU Bea Sound	rskin L. Arrickyn Arrickyn Golden Ganger Gan	Muskie L Burch Whitey Sand Tyler L. Corr Simons L. Horse Harsh Whitey Harsh Whitey Harsh Whitey Horse Horse Horse Horse L Horse L Horse L Horse L L L L L L L L L L L L L	Linn Linn Linn Linn Linn Linn Linn Linn
appir Co	Tomanutuk CASSI	Hughitt FIU Bea Sound	rskin L. Arrickyn Arrickyn Golden Ganger Gan	Muske L. Sand Tyler L. Simons L. Horse Harshaw Harshaw J Harshaw Harshaw J Harshaw J Harshaw J Harshaw J Harshaw J Harshaw J Harshaw	L. Constant
Co. College	McCormets less and Land and La	Hughitt Sea Con Sea Co	Trskim L. Arresyn Arresyn Gurrie Farmer British	Muske L. Sand Tyler Simons L. Simons Harse Harshaw Harshaw J. Beggy L. Ona	Linn Linn Consessor Conses
appir Co	Tomanutuk CASSI	Hughitt FIU Bea Sound	Trskim L. Arresyn Arresyn Gurrie Farmer British	Muske L. Sand Tyler L. Simons L. Horse Harshaw Harshaw J Harshaw Harshaw J Harshaw J Harshaw J Harshaw J Harshaw J Harshaw J Harshaw	Linn Linn Consessor Conses

STAGE	1	2	3	4
7 DAYS PRIOR TO USH 51 CLOSURE	NO MESSAGE	NO MESSAGE	USH 51 TO BE CLOSEDNIGHT OF (MONTH_DATE)	NO MESSAGE
DURING USH 51 CLOSURE	USH 51 CLOSED 9 MILES - AHEAD FOLLOW DETOUR	SB USH 51 CLOSED 9 MILES - AHEAD FOLLOW DETOUR	USH 51 CLOSED 1/2 MILE AHEAD	USH 51 CLOSED 19 MILES AHEAD FOLLOW DETOUR

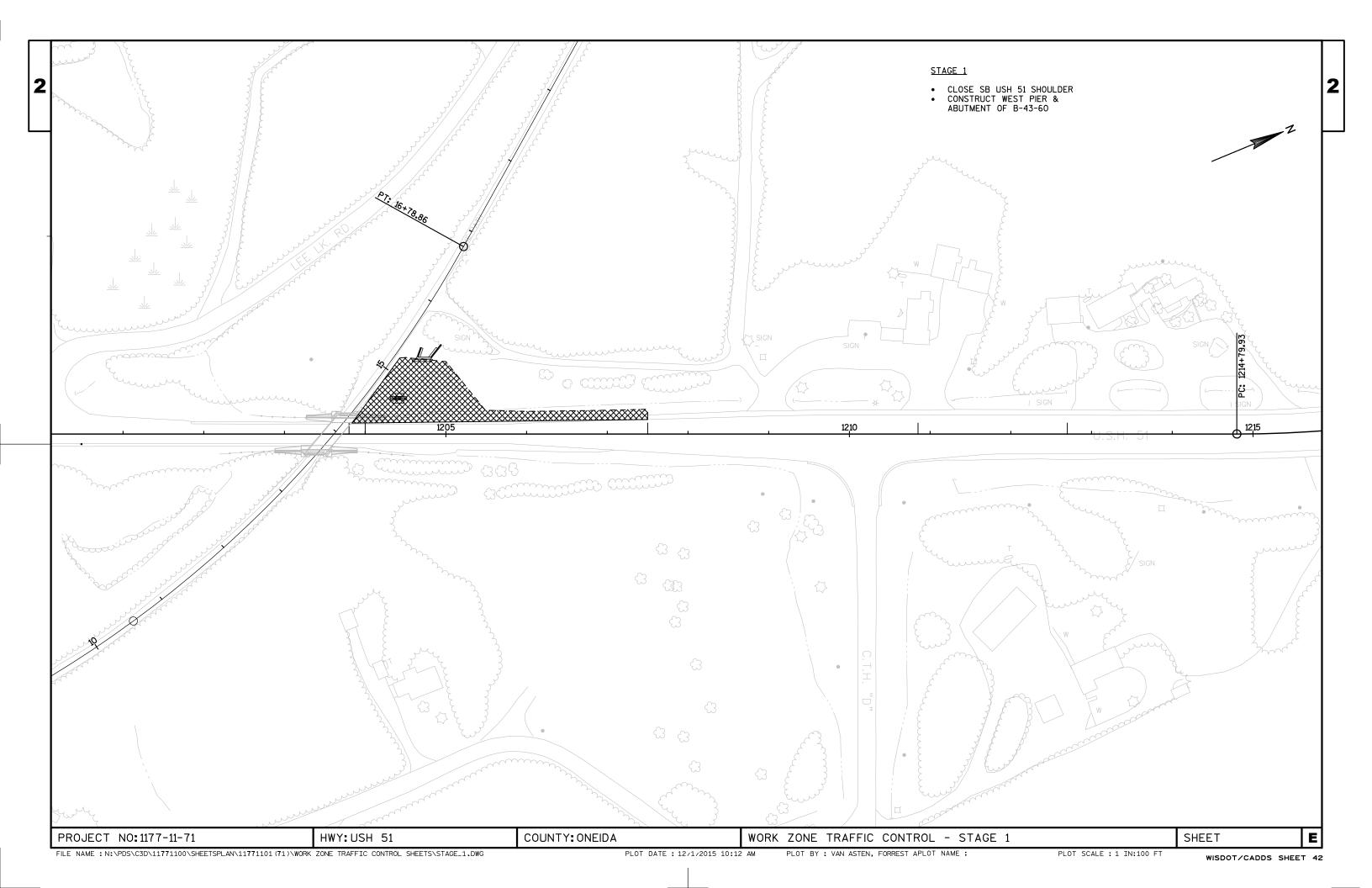
PROJECT NO: 1177-11-71 HWY: USH 51 COUNTY: ONEIDA

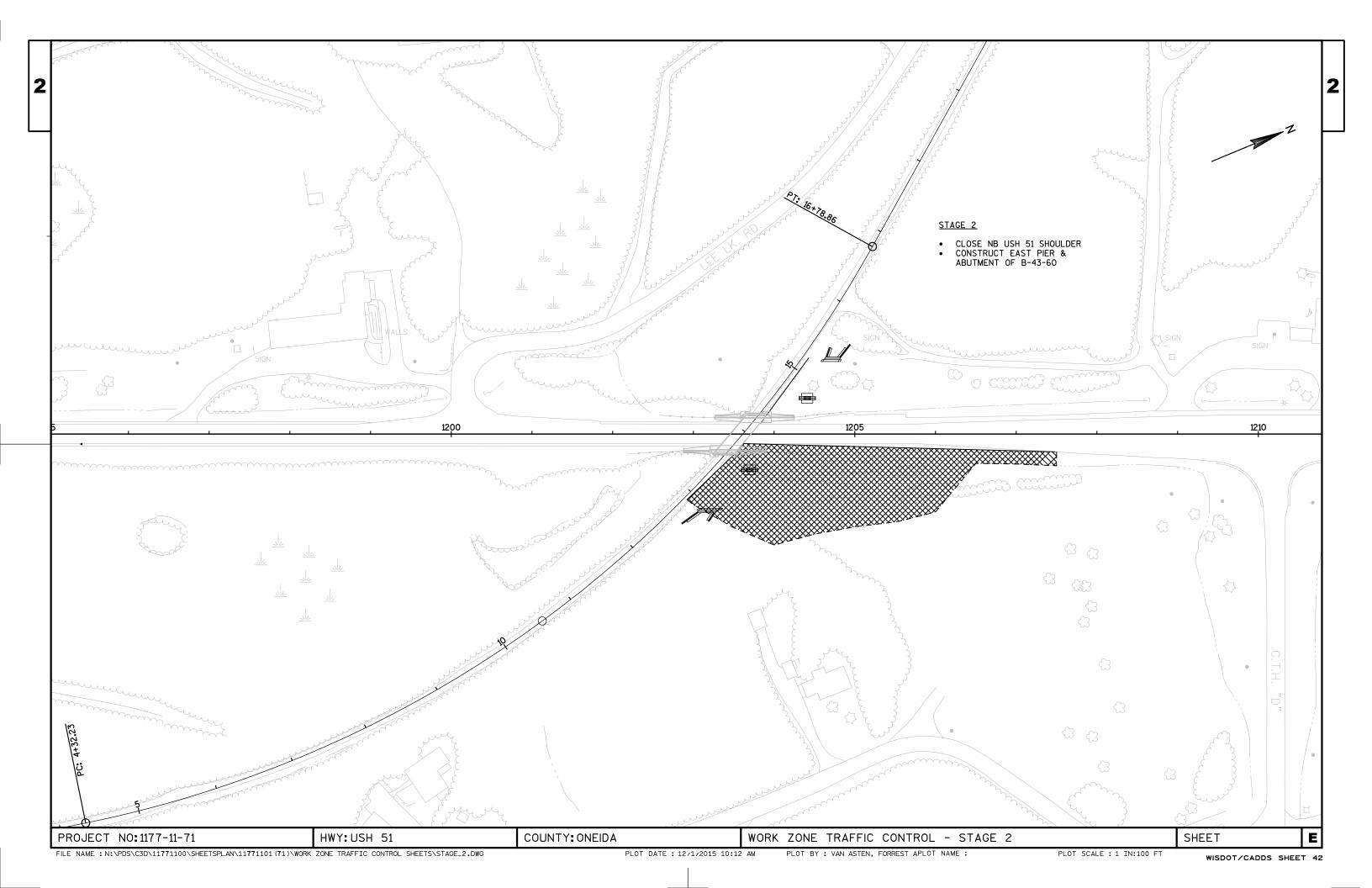
SPACE MESSAGE BOARDS

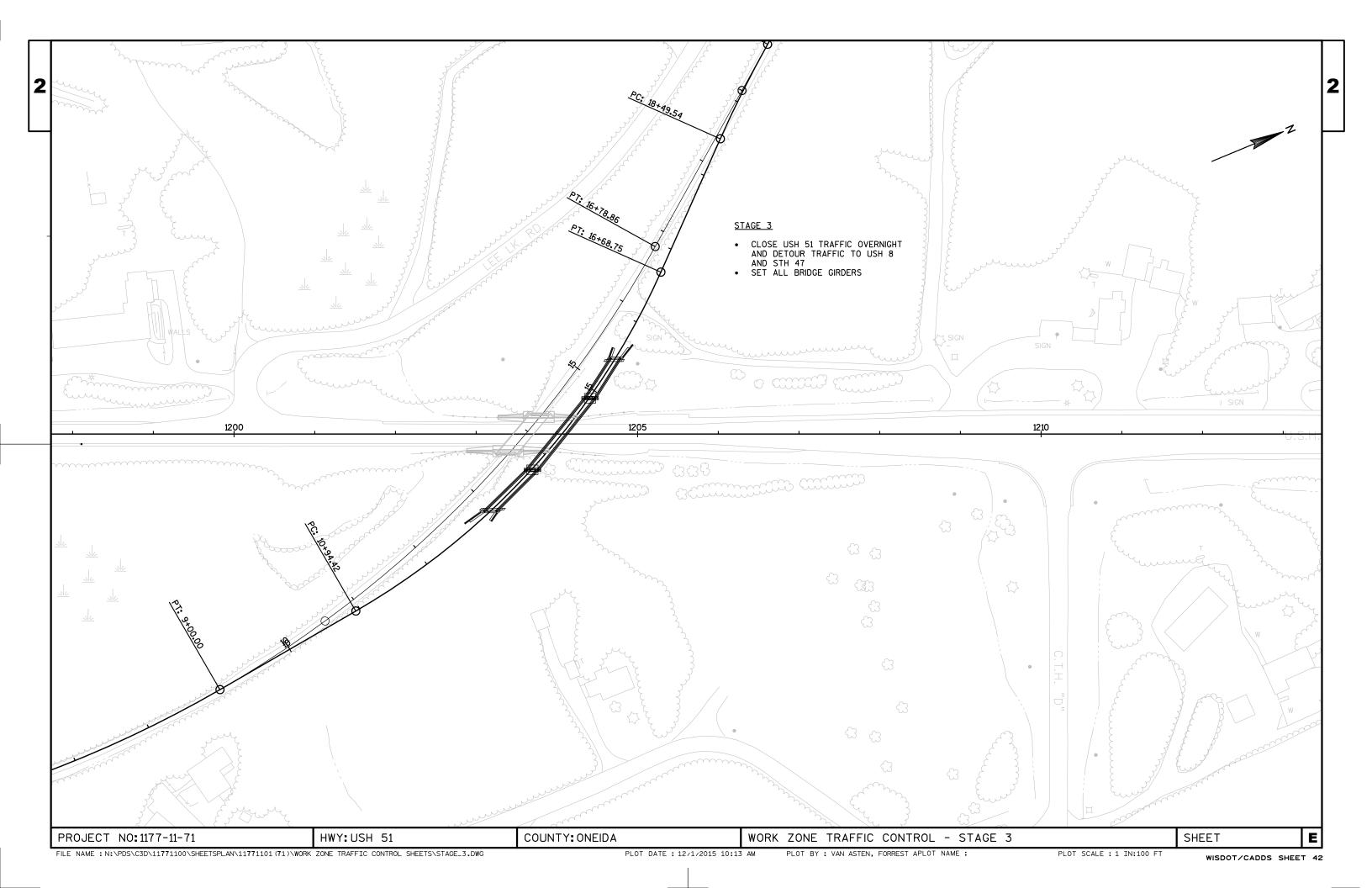
MILE APART ON USH 51 NB

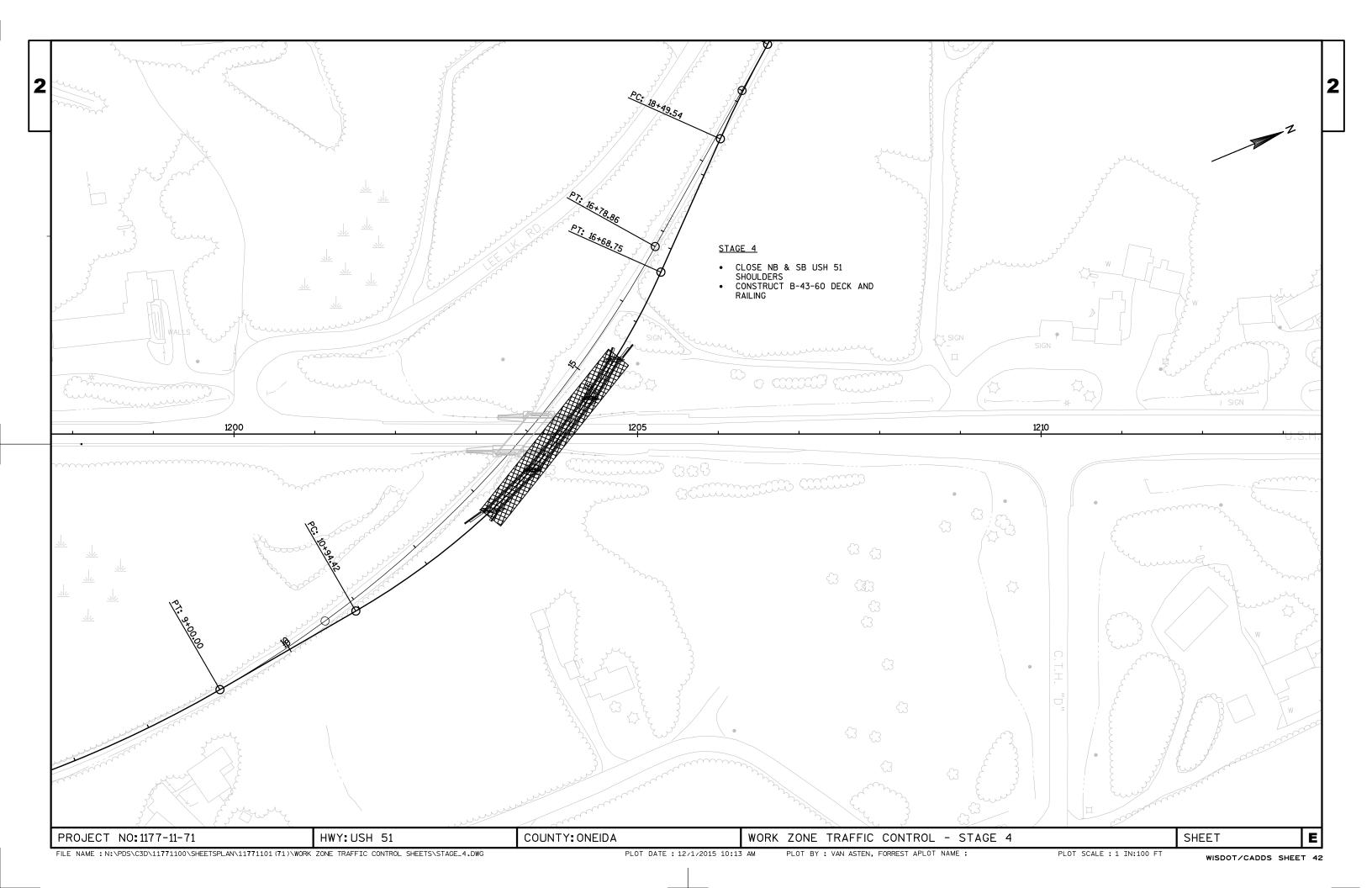
WORK ZONE TRAFFIC CONTROL: USH 51 DETOUR PCMS BOARDS

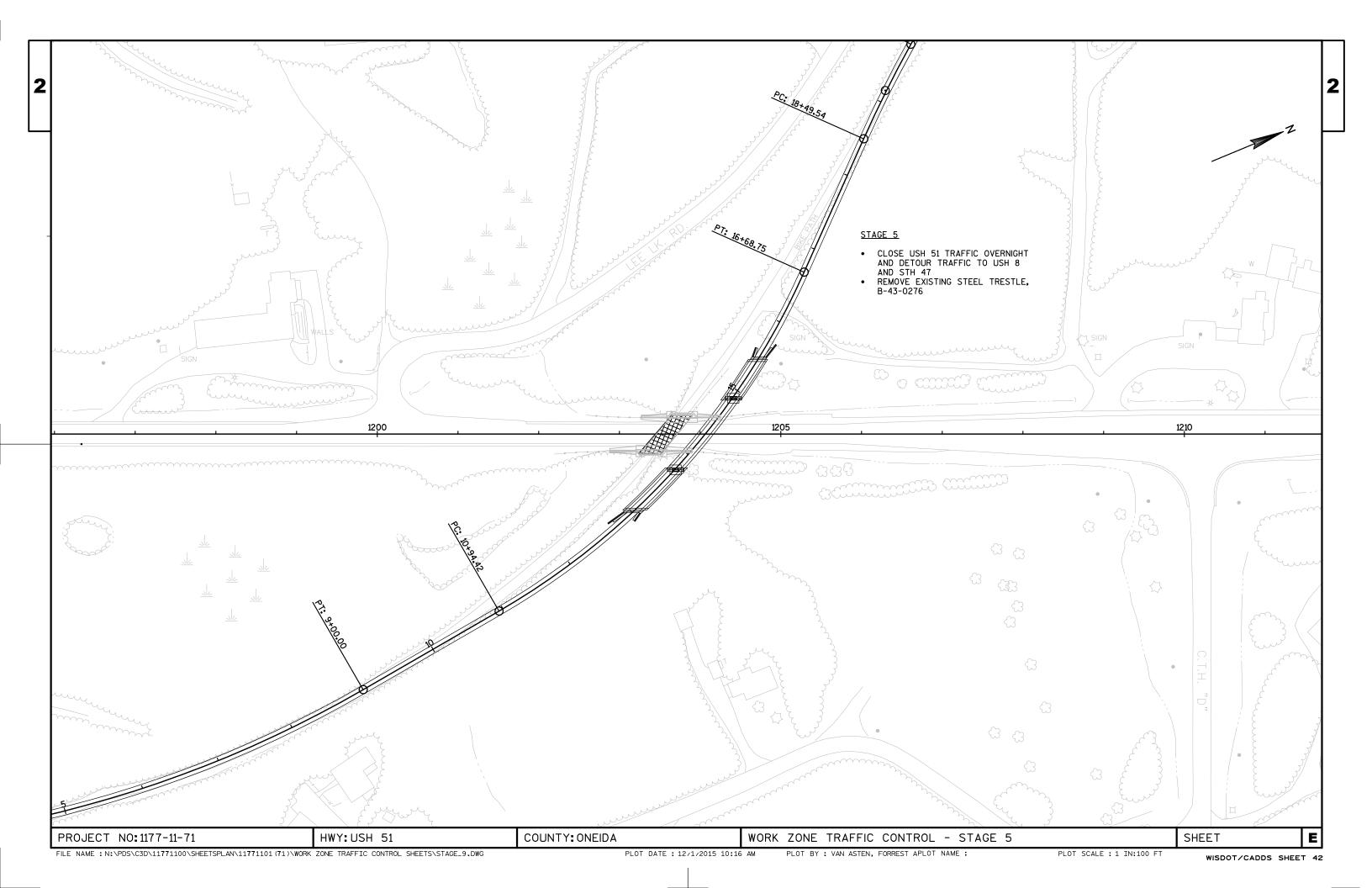
Ε

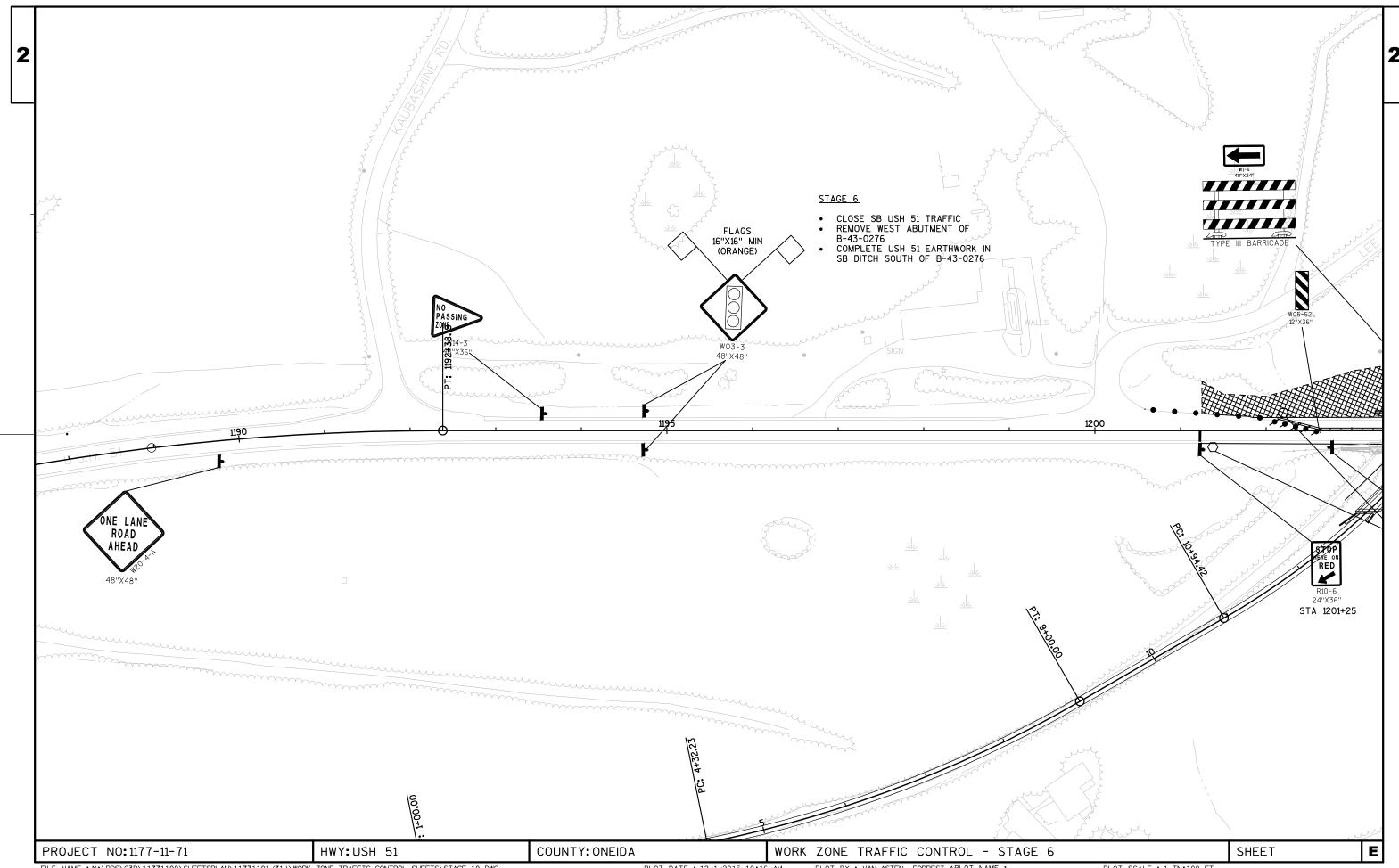


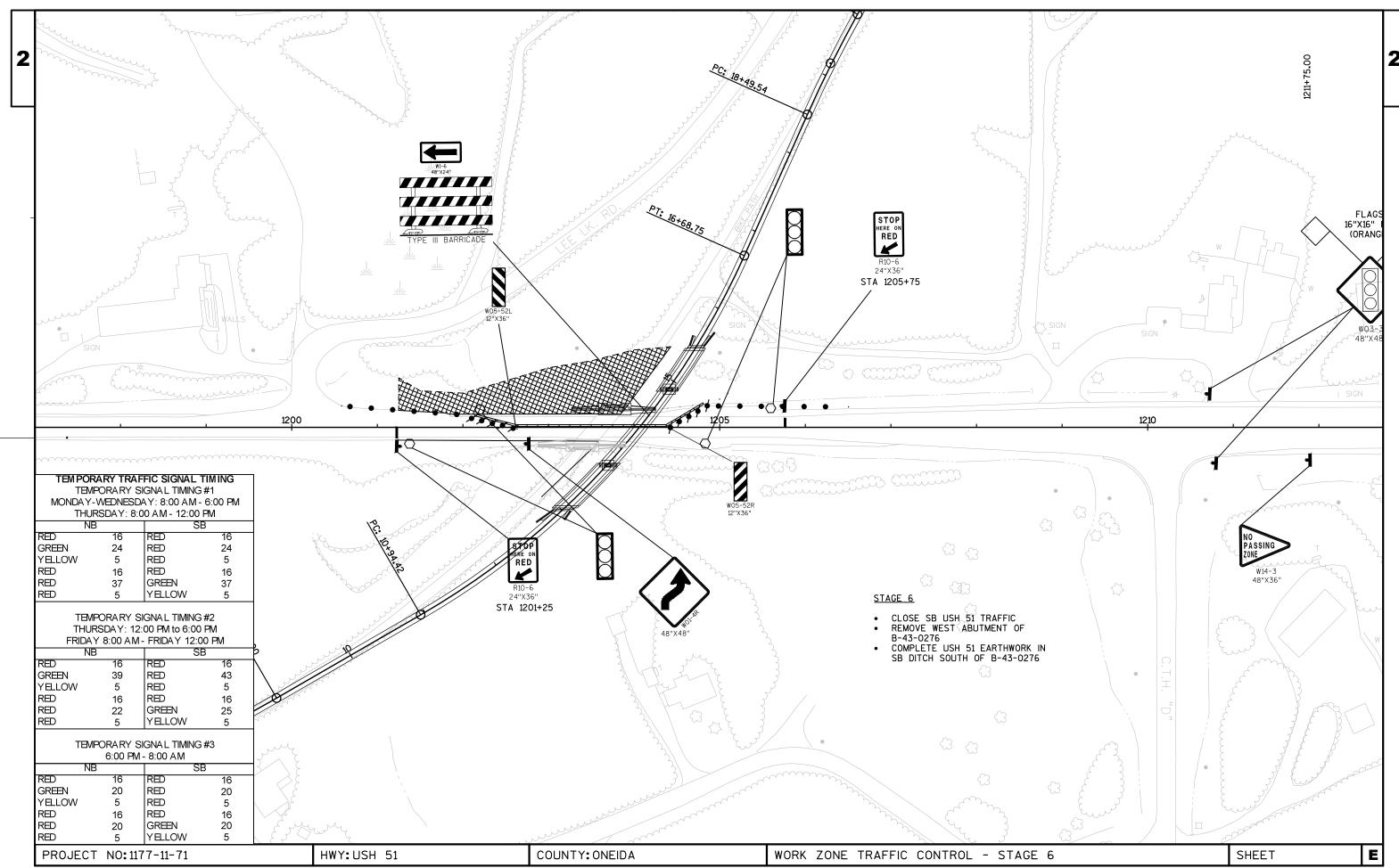


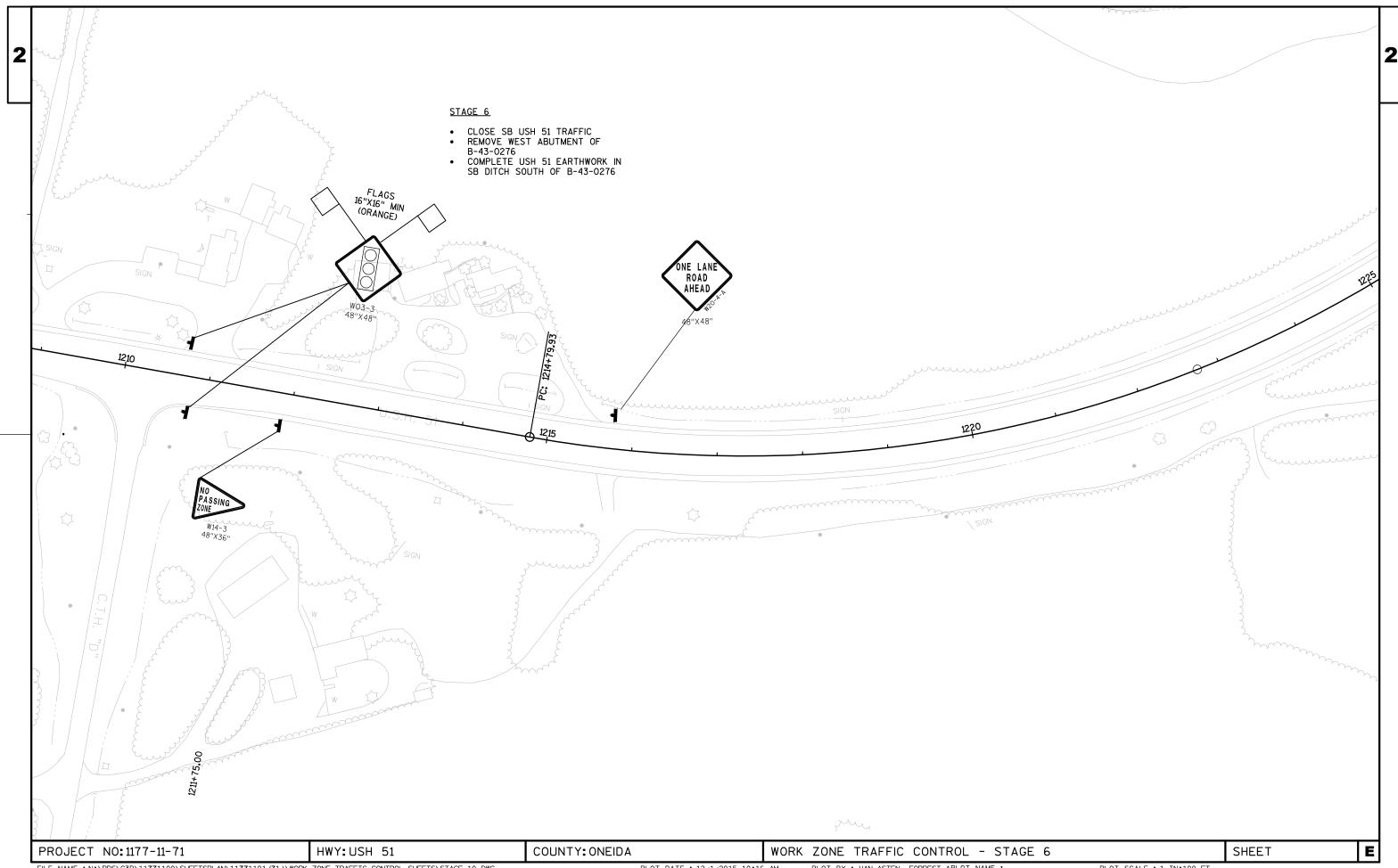


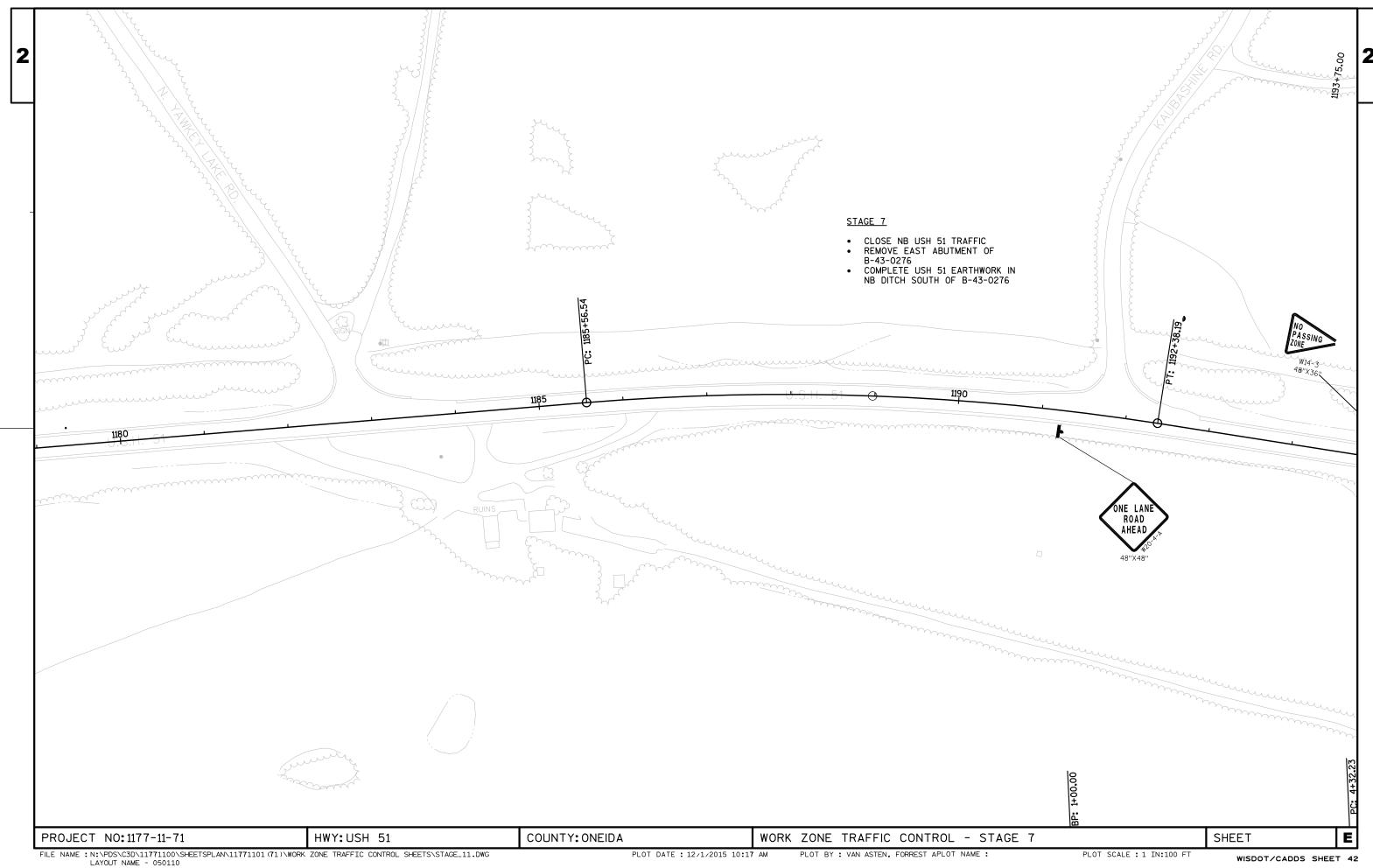


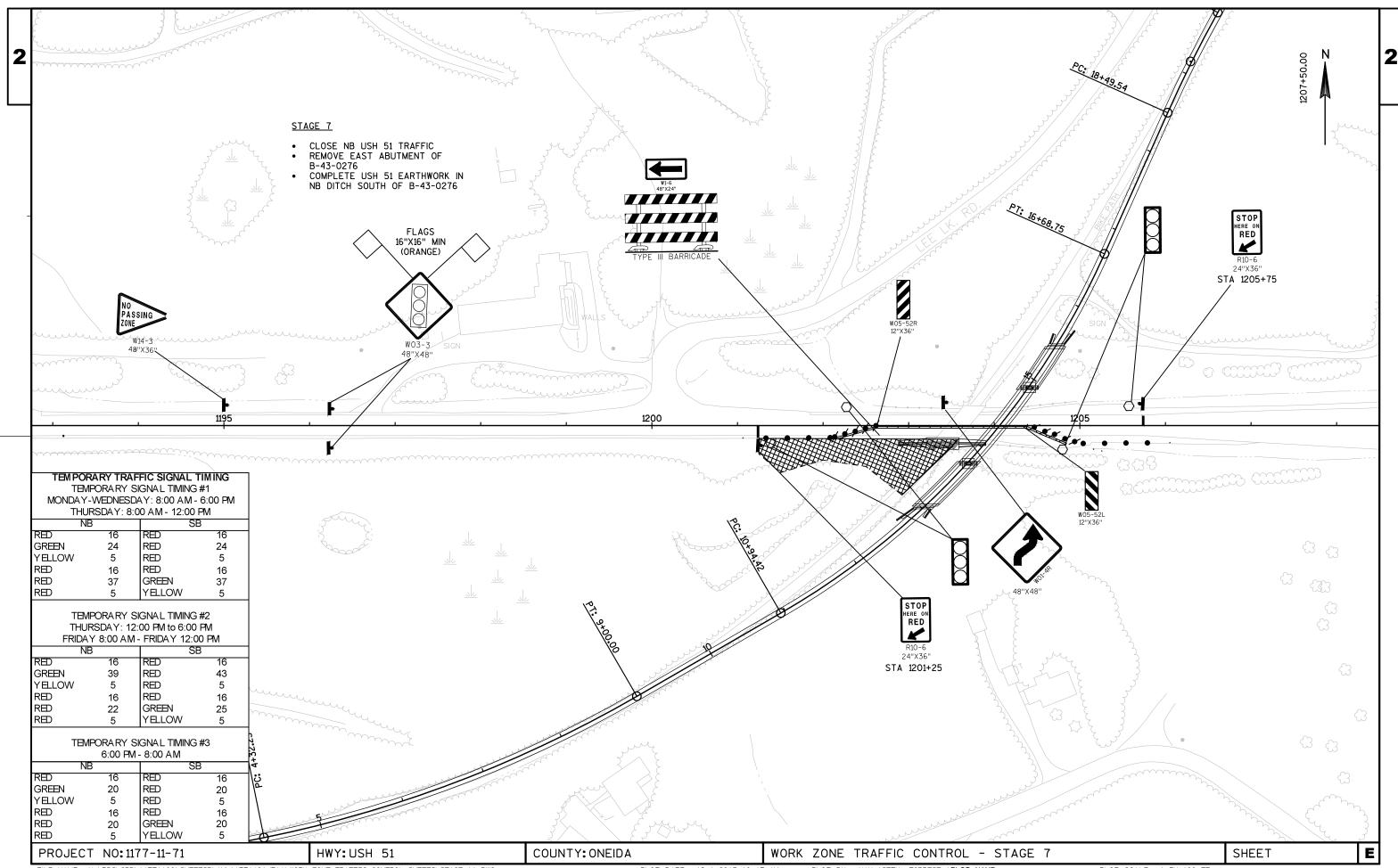


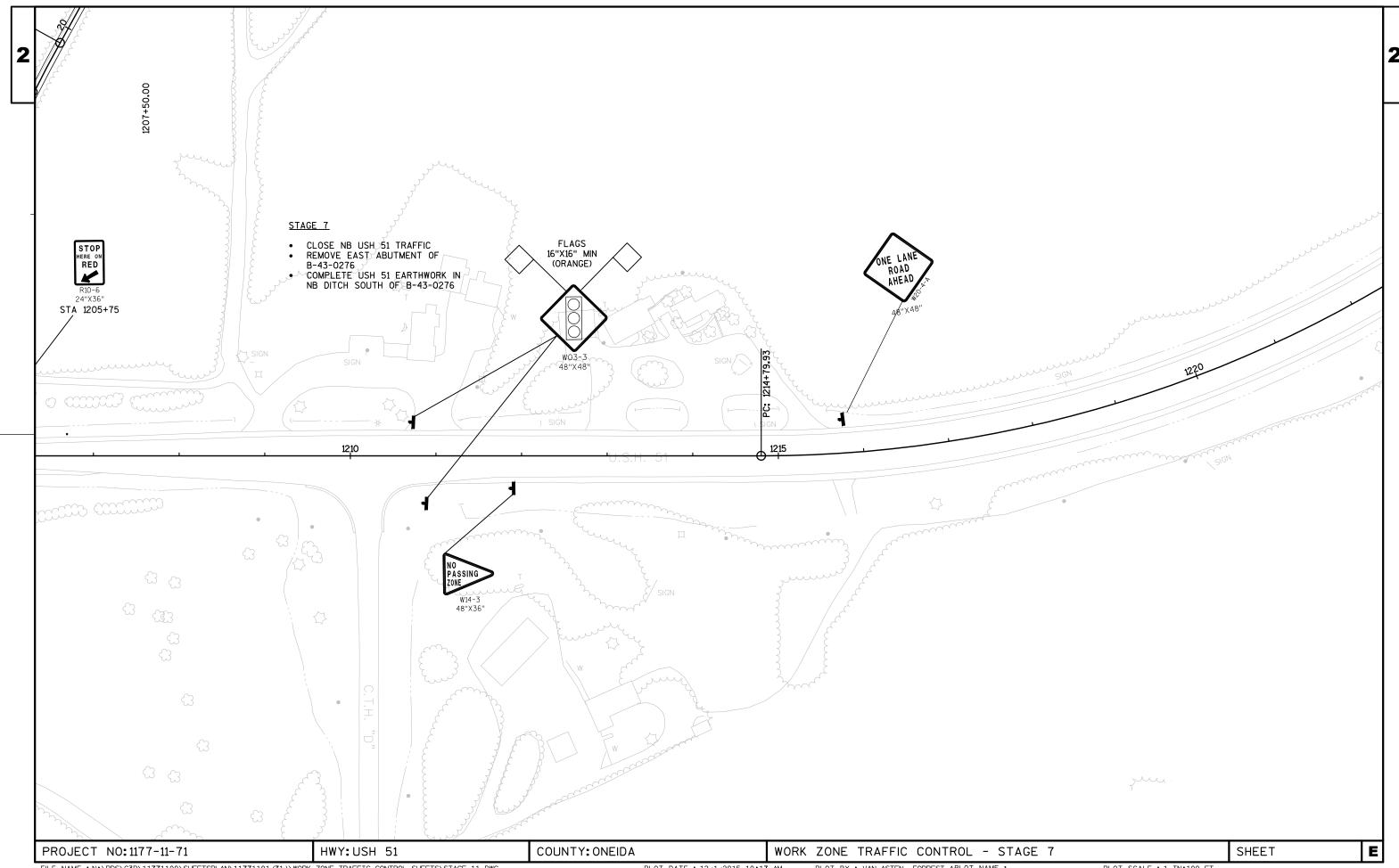


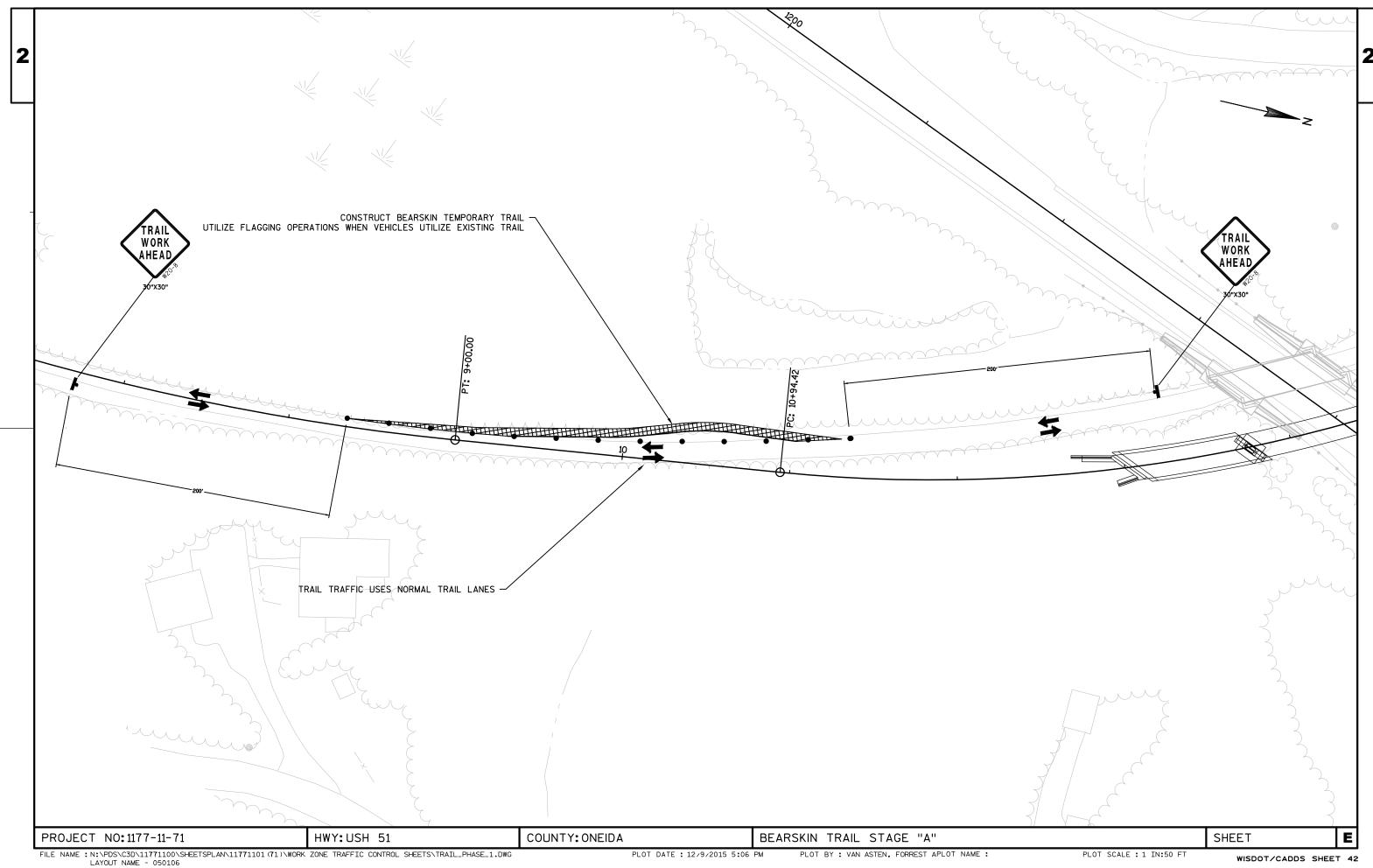


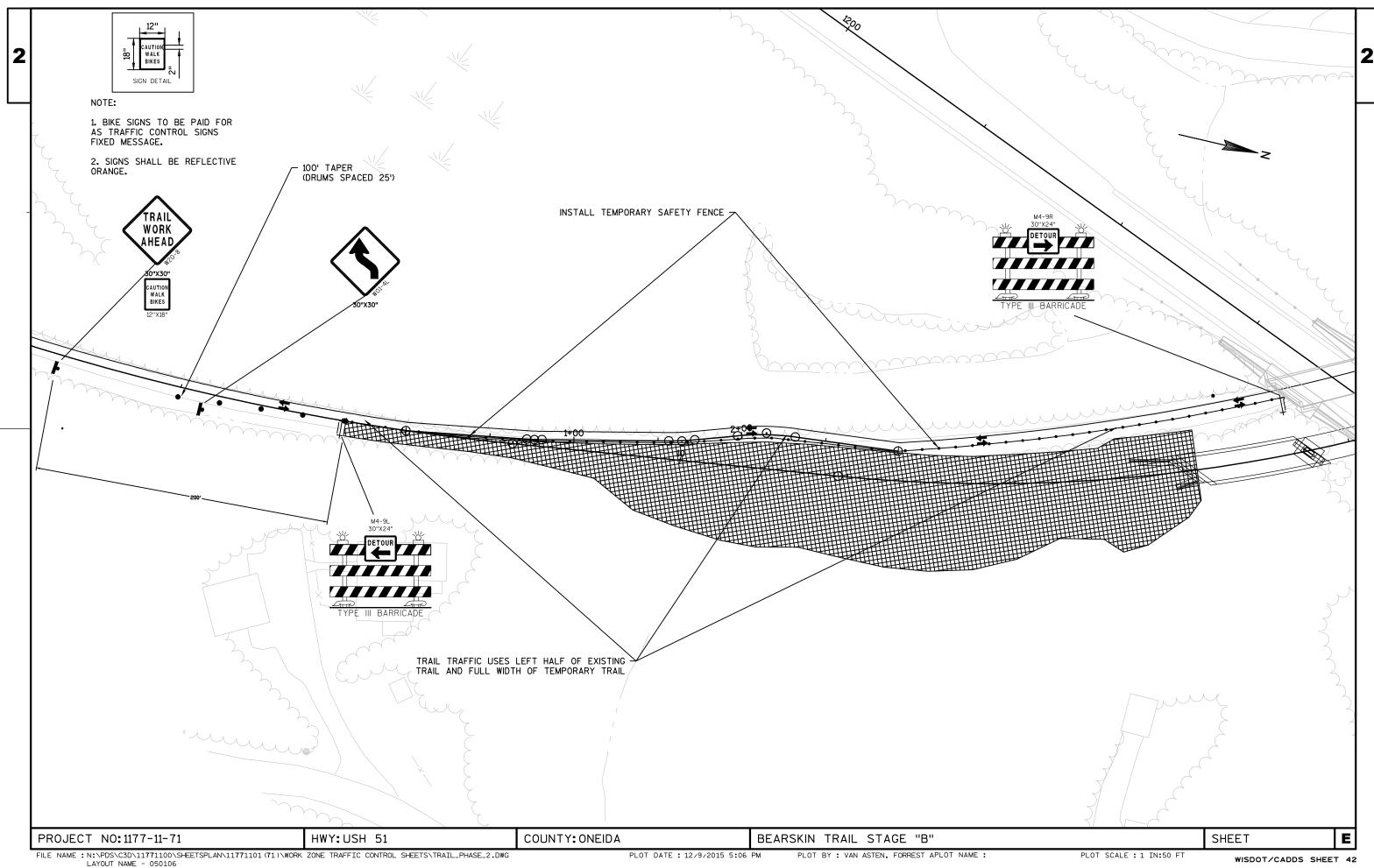








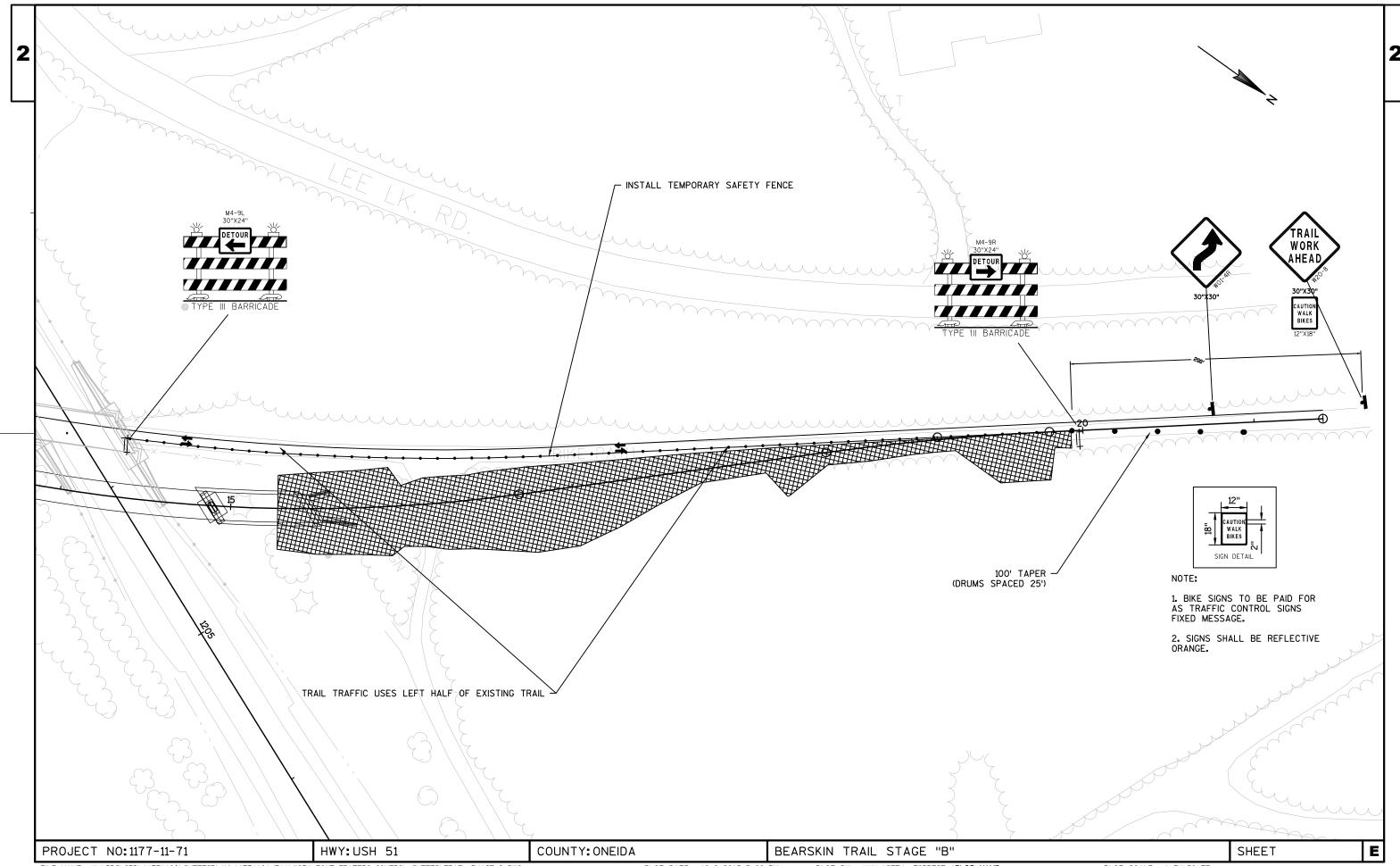


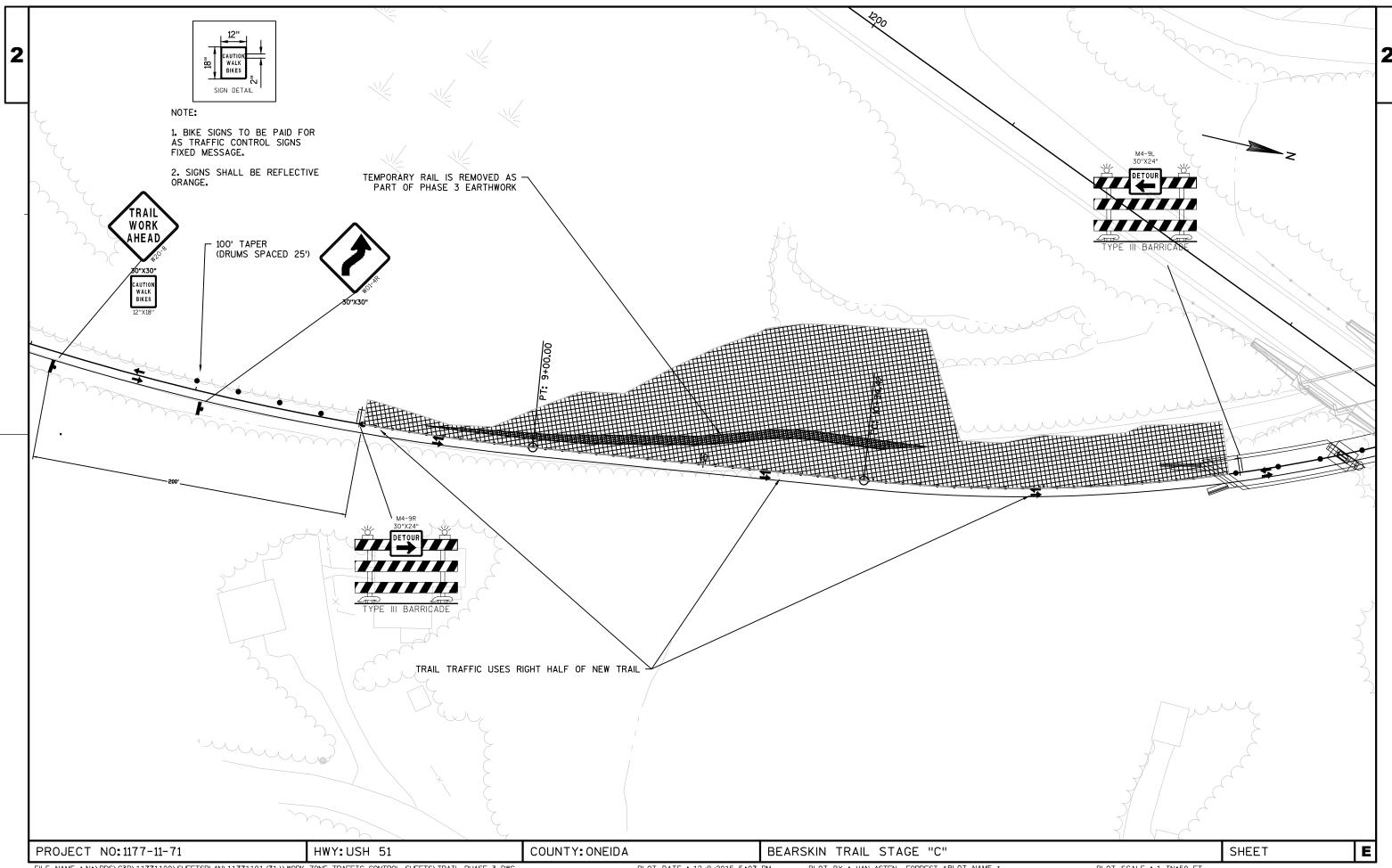


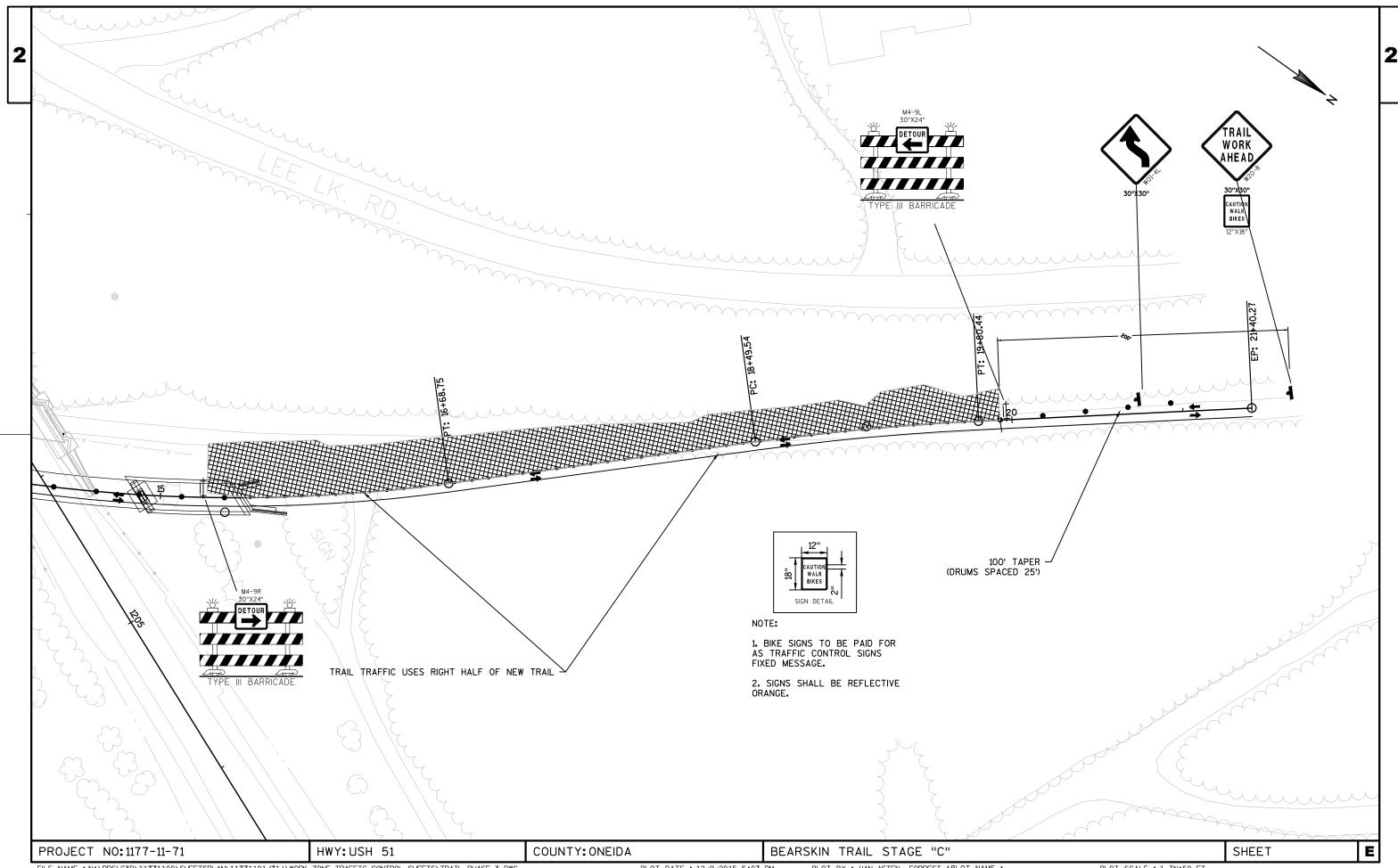
PLOT BY: VAN ASTEN, FORREST APLOT NAME:

PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42







DATE 1 LINE	2JAN16	E S	TIMATE	E O F Q U A N	T I T I E S 1177-11-71
NUMBER		ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	201. 0105	Clearing	STA	25. 000	25. 000
0020	201. 0205 203. 0200	Grubbi ng	STA	25.000	25. 000
0030	203. 0200	Removing Old Structure (station) 01. 13+45	LS	1. 000	1. 000
0040	203. 0225. 5	Debris Containment (structure) 01. B-43-60	LS	1. 000	1. 000
0050	204. 0110	Removing Asphaltic Surface	SY	304.000	304.000
0060	204. 0120	Removing Asphaltic Surface Milling	SY	152. 000	152. 000
0070	204. 0165	Removing Guardrail	LF	344.000	344.000
0800	205. 0100	Excavation Common	CY	16, 903. 000	16, 903. 000
0090	206. 1000	Excavation for Structures Bridges	LS	1. 000	1. 000
0100	208. 0100	(structure) 01. B-43-60 Borrow	CY	14, 006. 000	14, 006. 000
0110	210. 0100	Backfill Structure	CY	200.000	200. 000
0120	211. 0100	Prepare Foundation for Asphaltic Paving	LS	1. 000	1. 000
0120	211 0400	(project) 01. 1177-11-71	CTA	/ 000	/ 000
0130	211. 0400	Prepare Foundation for Asphaltic Shoulders	STA	6. 000	6. 000
0140	213. 0100	Finishing Roadway (project) 01.	EACH	1.000	1. 000
		1177-11-71			
0150	305. 0110	Base Aggregate Dense 3/4-Inch	TON	444. 400	444. 400
0160	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	467. 000	467. 000
0170	455. 0105	Asphaltic Material PG58-28	TON	6. 800	6. 800
0180	455. 0605	Tack Coat	GAL	38. 000	38. 000
0190	460. 1103	HMA Pavement Type E-3	TON	121. 000	121. 000
0200	460. 2000	Incentive Density HMA Pavement	DOL	80. 000	80. 000
0210	502. 0100	Concrete Masonry Bridges	CY	416. 000	416. 000
0210	502. 3210	Pigmented Surface Sealer	SY	245. 000	245. 000
0230	503. 0146	Prestressed Girder Type I 45W-Inch	LF	493. 000	493. 000
0240	505. 0400	Bar Steel Reinforcement HS Structures	LB	6, 110. 000	6, 110. 000
0250	505.0600	Bar Steel Reinforcement HS Coated	LB	52, 340. 000	52, 340. 000
		Structures			
0260	506. 2605	Bearing Pads Elastomeric Non-Laminated	EACH	12. 000	12. 000
0200	506. 4000	Steel Diaphragms (structure) 01. B-43-60		4. 000	4. 000
0270		S Polymer Overlay	SY	390. 000	390. 000
0290	511. 1200	Temporary Shoring (structure) 01.	SF	2, 120. 000	2, 120. 000
		B-43-60			
0300	516. 0500	Rubberized Membrane Waterproofing	SY	20. 000	20. 000
0310	517, 1010, 5	Concrete Staining (structure) 01.	SF	6, 725. 000	6, 725. 000
		B-43-060			
0320	517. 1015. S	S Concrete Staining Multi-Color	SF	1, 980. 000	1, 980. 000
0000	E47 1050 5	(structure) 01. B-43-060	0.5	4 000 000	4 000 000
0330	517. 1050. S	S Architectural Surface Treatment (structure) 01. B-43-060	SF	1, 980. 000	1, 980. 000
0340	550. 2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	2, 825. 000	2, 825. 000
0350	603. 8000	Concrete Barrier Temporary Precast	LF	275. 000	275. 000
		Del i vered			
02/0	402 012F	Concrete Dennion Torrespond			
0360	603. 8125	Concrete Barrier Temporary Precast Installed	LF	550. 000	550. 000
0370	604. 0500	Slope Paving Crushed Aggregate	SY	330. 000	330. 000
0370	612. 0406	Pipe Underdrain Wrapped 6-Inch	LF	115. 000	115. 000
0390	619. 1000	Mobilization	EACH	1. 000	1. 000
0400	624. 0100	Water	MGAL	285. 000	285. 000
0410	625. 0100	Topsoi I	SY	10, 915. 000	10, 915. 000
0410			SY	4, 098. 000	4, 098. 000
0720	627 0200				
0430	627. 0200 628. 1504	Mulching Silt Fence	LF	540. 000	540. 000

DATE 12	2JAN16	E S	TIMATE	OF QUAN	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1177-11-71 QUANTI TY
0440	628. 1520	Silt Fence Maintenance	LF	540.000	540. 000
0450	628. 1905	Mobilizations Erosion Control	EACH	6. 000	6. 000
0460	628. 1910	Mobilizations Emergency Erosion Control	EACH	5. 000	5. 000
0470	628. 2004	Erosi on Mat Class I Type B	SY	4, 100. 000	4, 100. 000
0480 0490	628. 2023 628. 7504	Erosion Mat Class II Type B Temporary Ditch Checks	SY LF	8, 600. 000 45. 000	8, 600. 000 45. 000
0500	629. 0210	Fertilizer Type B	CWT	4. 000	4. 000
0510	630. 0120	Seeding Mixture No. 20	LB	138. 000	138. 000
0520	630. 0130	Seeding Mixture No. 30	LB	38.000	38. 000
0530 0540	630. 0200 638. 2102	Seeding Temporary Moving Signs Type II	LB EACH	62. 000 12. 000	62. 000 12. 000
0550	638. 2602	Removing Signs Type II	EACH	1. 000	1. 000
0560	638. 3000	Removing Small Sign Supports	EACH	1. 000	1. 000
0570	638. 4000	Moving Small Sign Supports	EACH	14.000	14.000
0580 0590	642. 5001 643. 0200	Field Office Type B Traffic Control Surveillance and	EACH DAY	1. 000 135. 000	1. 000 135. 000
5570	J-J. U2UU	Maintenance (project) 01. 1177-11-71	DAT	133.000	133.000
0600	643. 0300	Traffic Control Drums	DAY	3, 672. 000	3, 672. 000
0610	643. 0420	Traffic Control Barricades Type III	DAV	442,000	442.000
0610	643. 0420 643. 0705	Traffic Control Barricades Type III Traffic Control Warning Lights Type A	DAY DAY	442. 000 212. 000	442. 000 212. 000
0630	643. 0715	Traffic Control Warning Lights Type C	DAY	336. 000	336. 000
0640	643. 0900	Traffic Control Signs	DAY	2, 434. 000	2, 434. 000
0650	643. 1000	Traffic Control Signs Fixed Message	SF	6. 000	6. 000
0660	643. 1050	Traffic Control Signs PCMS	DAY	52. 000	52. 000
0670	643. 2000	Traffic Control Detour (project) 01.	EACH	1. 000	1. 000
	2.2.2000	1177-11-71		555	555
0680	643. 3000	Traffic Control Detour Signs	DAY	596.000	596.000
0690	644. 1616. \$	S Temporary Pedestrian Safety Fence 01.	LF	2, 081. 000	2, 081. 000
0700	646. 0106	Temporary Pedestrian Safety Fence Pavement Marking Epoxy 4-Inch	LF	900.000	900. 000
	J40. 0100	ravement marking Lpoxy 4-inch	LI	700.000	700.000
0710	646. 0406	Pavement Marking Same Day Epoxy 4-Inch	LF	900.000	900. 000
0720	646. 0600	Removing Pavement Markings	LF 	900.000	900.000
0730	649. 0400	Temporary Pavement Marking Removable	LF	5, 400. 000	5, 400. 000
0740	649. 1400	Tape 4-Inch Temporary Pavement Marking Stop Line	LF	96. 000	96. 000
0740	547. 1400	Removable Tape 24-Inch		70. 000	70. 000
0750	650. 4500	Construction Staking Subgrade	LF	1, 474. 000	1, 474. 000
07/0	/F0 F000	Construction Chalden Dece		1 474 000	1 474 000
0760 0770	650. 5000 650. 6500	Construction Staking Base Construction Staking Structure Layout	LF LS	1, 474. 000 1. 000	1, 474. 000 1. 000
0770	550. 0500	(structure) 01. B-43-0060	LJ	1.000	1.000
0780	650. 9910	Construction Staking Supplemental	LS	1.000	1. 000
0766	/F0 2225	Control (project) 01. 1177-11-71	. =	0.000.000	0.000.000
0790 0800	650. 9920 661. 0100	Construction Staking Slope Stakes Temporary Traffic Signals for Bridges	LF LS	2, 099. 000 1. 000	2, 099. 000 1. 000
0000	001.0100	(structure) 01. B-43-0060	LJ	1.000	1.000
	(00 0175			04: 222	04: 555
0810	690. 0150	Sawing Asphalt	LF DOI	314.000	314.000
0820 0830	715. 0502 SPV. 0090	Incentive Strength Concrete Structures Special O1. Fence Chain Link Polymer	DOL LF	2, 496. 000 566. 000	2, 496. 000 566. 000
0000	3 0070	Coated 8-FT		550.000	000.000
0840	SPV. 0195	Special O1. Base Aggregate	TON	613. 000	613. 000
		Disintegrated Granite			

CLEARING A		<u>BBING</u>		CLEARIN	05 201.020 5 IG GRUBBING												
LOCATION				STA	STA	_											
USH 51 STA 1201+	00	STA 1206+00) LT	5	5												
STA 1201+		STA 1200+00		6	6						CONSTRUCTI	ON STAKING					650.9910
BEARSKIN		317(1207)00		Ü	· ·												CONSTRUCTION
STA 9+00		STA 13+00	RT	4	4									650.5000	650.6500		
STA 15+00) –	STA 19+00	RT	4	4								SUB GRADE	BASE	STRUCTURE LAYOUT	SLOPE STAKE	SUPPLEMENTAL
STA 8+00		STA 12+00	LT	4	4						STA		LF	LF	LATOUT	LF	CONTROL LS
STA 18+00) –	STA 20+00	LT	2	2	=					CAT 0010		Li				
			TOAL	25	25						USH 51						
											STA 1201+25	5 - STA 1207+50				625	1
											BEARSKIN T	RAIL					
							4==		400		STA 8+00	- STA 19+80	1,180	1,180		1,180	
PAVING ITE CAT 0010	<u>IMS</u>			204.0110 REMOVING	211.0400 PREPARE	211.0100 PREPARE			460.1103 HMA	204.0120 REMOVING							
CATOUTO					FOUNDATION		ASPHALTIC MATERIAL	COAT		ASPHALTIC		EMPORARY TRAIL - STA 2+94	294	294		294	
					FOR ASPHALT			20/11	TYPE E-3	SURFACE	STA 0+00	- 31A Z+94	294	294		294	
					SHOULDERS					MILLING	CAT 0020						
STATION		STATION	LOCATION	SY	STA	LS	TON	GAL	TON	SY	STRUCTURES						
USH 51					_						B-43-60				1		
STA 1202+8				152	3		3.4	19	61	76 76							
STA 1202+8	-	STA 1204+25	LT	152	3		3.4	19	61	76		TOTAL	1,474	1,474	1	2,099	1
	тот	AL		304	6	1	6.8	38	121	152							
													REMOVING	GUARDRAII	<u>L</u>		
SAWCUTTII	NG.			690.015									CAT 0010		=		
CAT 0010				SAWING												0165	
				ASPHALT				<u>WATER</u>								OVING	
STATION		STATION	LOCATION	LF	_			CAT 0010			624.0100		LOCATION			RDRAIL	
USH 51 STA 1202+8	18	STA 1204+25	DT	137	LONGITUDINA	I CUT		LOCATION			WATER MGAL		B-43-0276	<u> </u>	L	<u>-F</u>	
STA 1202+8		STA 1204+25 STA 1204+25		137	LONGITUDINA			LANDSCAP			270		NE QUADRA		۶	36	
STA 1202+8		517. 120-120	RT & LT	20	LATERAL CUT					E COMPACTION	6		NW QUADRA			36	
STA 1204+2			RT & LT	20	LATERAL CUT					E COMPACTION	9		SE QUADRAI		8	36	
	T0-					_				TOTA:	205		SW QUADRA	NT	3	36	
	тоти	AL.		314						TOTAL	285				TOTAL 3	44	
															IOTAL 3	44	

PROJECT NO: 1177-11-71 HWY: USH 51 COUNTY: ONEIDA MISCELLANEOUS QUANTITIES	SHEET: E
--	----------

FILE NAME : _____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

,	
•	
•	
)

EROSION CONTROL CAT 0010	628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENCE	628.1905 MOBILIZATIONS FOR EROSION CONTROL	628.1910 MOBILIZATIONS FOR EMERGENCY EROSION CONTROL	628.2004 EROSION MAT CLASS I TYPE B	628.2023 EROSION MAT CLASS II TYPE B	628.7504 TEMPORARY DITCH CHECKS
LOCATION	LF	LF	EA	EA	SY	SY	LF
USH 51							
NB DITCHLINE			1		340		15
NB SIDE SLOPE	130	130				3,100	
SB DITCHLINE			1		230		15
SB SIDESLOPE					1,420		
BEARSKIN TRAIL STAGE "A"			1				
TEMP TRAIL SIDESLOPE	300	300				1,150	
BEARSKIN TRAIL STAGE "B"			1				
WB SIDESLOPE					1,170		
EB SIDESLOPE						1,160	
BEARSKIN TRAIL STAGE "C"			1				
EB SIDESLOPE					120	1,470	
UNDISTRIBUTED	110	110	1	5	820	1,720	15
TOTAL	540	540	6	5	4,100	8,600	45

<u>LANDSCAF</u>	<u>PING</u>							
CAT 0010			625.0100	627.0200	629.0210	630.0120	630.0130	630.0200
			TOPSOIL	MULCHING	FERTILIZER	SEEDING	SEEDING	SEEDING
					TYPE B	MIXTURE	MIXTURE	TEMPORARY
						#20	#30	
STATION	TO STATION	l LOCATION	SY	SY	CWT	LB	LB	LB
TEMPORAL	RY TRAIL							
0 + 00	- 2+94	TEMP TRAIL LT			0.4			31
BEARSKIN	I TRAIL							
8 + 00	-19+80	STAGE "B" TRAIL LT			0.4			31
8 + 00	-13+00	BEARSKIN TRAIL RT	1,525	355	0.5	41		
15 + 50	-19+80	BEARSKIN TRAIL RT	714	714	0.2	19		
8 + 00	-13+00	BEARSKIN TRAIL LT	2,180	590	0.7	59		
15 + 50	- 19+80	BEARSKIN TRAIL LT	702	702	0.2	19		
USH 51								
1201+25	- 1207+50	USH 51 RT	3,851	926	1.4		19	
1201+25	- 1207+50	USH 51 LT	1,945	812	0.8		19	
TOTAL			10,915	4,098	4	138	38	62

PROJECT NO: 1177-11-71 HWY: USH 51 COUNTY: ONEIDA MISCELLANEOUS QUANTITIES	SHEET: E
--	----------

FILE NAME : _____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

۰			١	
		í	k	
۹	١	ı	,	

PAVEMENT CAT 0010	MARKING	REMO TA	0400 VABLE APE NCH	649.1400 STOP LINE REMOVABLE TAPE 24-INCH	646.0600 REMOVING PAVEMENT MARKINGS	646.0106 PAVEMENT MARKING EPOXY 4-INCH	646.0406 PAVEMENT MARKING SAME DAY EPOXY 4-INCH	
	_	WHITE	YELLOW	_		(WHITE)	(YELLOW)	
STAGE	LOCATION	LF	LF	LF	LF	LF	LF	<u>COMMENTS</u>
	WEST ABUTMENT WALL REMOVAL	450		24	900			TEMPORARY SIGNAL LAYOUT
6	RE-ESTABLISH CENTER & NB EDGELINE	450	900					RE-ESTABLISH PAV'T MARKING
O	WEST ABUTMENT FOOTING REMOVAL	450		24				TEMPORARY SIGNAL LAYOUT
	RE-ESTABLISH TEMP CENTER & PERMANENT NB EDGELINE		900			450		RE-ESTABLISH PAV'T MARKING
•	EAST ABUTMENT WALL REMOVAL	450		24				TEMPORARY SIGNAL LAYOUT
7	RE-ESTABLISH CENTER & SB EDGELINE	450	900					RE-ESTABLISH PAV'T MARKING
,	EAST ABUTMENT FOOTING REMOVAL	450		24				TEMPORARY SIGNAL LAYOUT
	RE-ESTABLISH PERMANENT CENTER SB EDGELINE					450	900	RE-ESTABLISH PAV'T MARKING
	SUB-TOTAL GRAND TOTAL	2,700	2,700	96	900	900	900	-
	GRAND TOTAL	٥,-	100	50	500	300	300	

TRAFFIC CONTROL						WARNIN	G LIGHTS	661.0100 TEMPORARY	643.0900 TRAFFIC	643.1000 TRAFFIC	643.1050 TRAFFIC	643.3000 TRAFFIC	644.1616.S TEMPORARY	
	643.0200	643.0300	603.8000	603.8125	643.0420	643.0705	643.0715	TRAFFIC	CONTROL	CONTROL	CONTROL	CONTROL	PEDESTRIAN	
	SURVEILLANCE &	TRAFFIC	CONC BARRIER	CONC BARRIER	BARRICADES			SIGNALS	SIGNS	SIGNS	SIGNS	DETOUR	SAFETY	
	MAINTENANCE	CONTROL	TEMP PRECAST	TEMP PRECAST	TYPE III			FOR		FIXED	PCMS	SIGNS	FENCE	
		DRUMS	DELIVERED	INSTALLED		TYPE A	TYPE C	BRIDGES		MESSAGE				
LOCATION	DAYS	DAYS	LF	LF	DAYS	DAYS	DAYS	(B-43-0060)	DAYS	SF	DAY	DAY	LF	COMMENTS
USH 51														
STAGE 1	24	384							264					
STAGE 2	24	384							264					
STAGE 3	2				44	88			36		26	298		
STAGE 4	22	704							242					
STAGE 5	2				44	88			36		26	298		
STAGE 6	14	308	275	275	14		140	4	336					
STAGE 7	14	280		275	14		140	1	336					
BEARSKIN TRAIL														
STAGE A		70							10					
STAGE B	33	330			132				264	3			1,131	SOME STAGES MAY OCCUR CONCURRENTLY WITH USH 51 WORK, ITEM 643.0200 IS NOT DOUBLE COUNTED
STAGEC		600			120				240	3			950	OGITOT WORK, ITENIO40.0200 IO NOT DOUBLE COUNTED
UNDISTRIBUTED		612			74	36	56		406					
TOTAL	135	3,672	275	550	442	212	336	1	2,434	6	52	596	2,081	

PROJECT NO: 1177-11-71 HWY: USH 51	COUNTY: ONEIDA	MISCELLANEOUS QUANTITIES	SHEET:	Е
------------------------------------	----------------	--------------------------	--------	---

FILE NAME : _____ PLOT DATE : ____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

3

PERMANENT SIGNING

CAT 0010

SIGNING 638.2602 638.3000 638.2102 638.4000 REMOVING REMOVING MOVING MOVING SIGNS SMALL SIGN SIGNS SMALL SIGN SIZE TYPE II SUPPORTS TYPE II SUPPORTS DESCRIPTION COMMENTS STATION LOCATION SIGN # SIGN CODE IN x IN EACH EACH EACH EACH 72X15 1205+40 D1-1 4 Lee Lake Road RE-INSTALL IN SAME LOCATION AFTER CONSTRUCTION 1205 + 90LT 2 W6-3 36X36 2 2 Two-Way Traffic Signal RE-INSTALL IN SAME LOCATION AFTER CONSTRUCTION 1213+60 3 W12-2 36X36 LT 14'-3" Clearance REMOVE Divided Highway Symbol 1205+60 RT 4 W6-1 36X36 2 2 RE-INSTALL IN SAME LOCATION AFTER CONSTRUCTION 1201 + 70RT 5 D1-1 102X24 2 4 Camp American Legion RE-INSTALL IN SAME LOCATION AFTER CONSTRUCTION 21X15 1200 + 75RT 6 J1-1 4 2 JCT COUNTY D RE-INSTALL IN SAME LOCATION AFTER CONSTRUCTION 24X24

SUB TOTAL 1 1 12 14

 BASE AGGREGATE DENSE
 305.0110
 305.0120
 SPC.0195.01

 CAT 0010
 3/4-INCH
 1 1/4-INCH
 DISINTEGRATED

 GRANITE

ROADWAY	STATION	STATION	LOCATION	TON	TON	TON	<u>COMMENTS</u>
USH 51	1201+25 -	1202+88	RT	58.7			
USH 51	1202+88 -	1204+25	RT	46.3	233.5		
USH 51	1204+25 -	1207 + 50	RT	117.1			
USH 51	1201+25 -	1202 + 88	LT	58.7			
USH 51	1202 + 88 -	1204 + 25	LT	46.3	233.5		
USH 51	1204+25 -	1207 + 50	LT	117.1			
BEARSKIN TRAIL	8+00 -	19 + 80	LT & RT			559	
TEMPORARY TRAIL	0+00 -	2+94	LT			54	

TOTAL 444 467 613

PROJECT NO: 1177-11-71 HWY: USH 51 COUNTY: ONEIDA MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : _____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

EARTHWORK SUMMARY

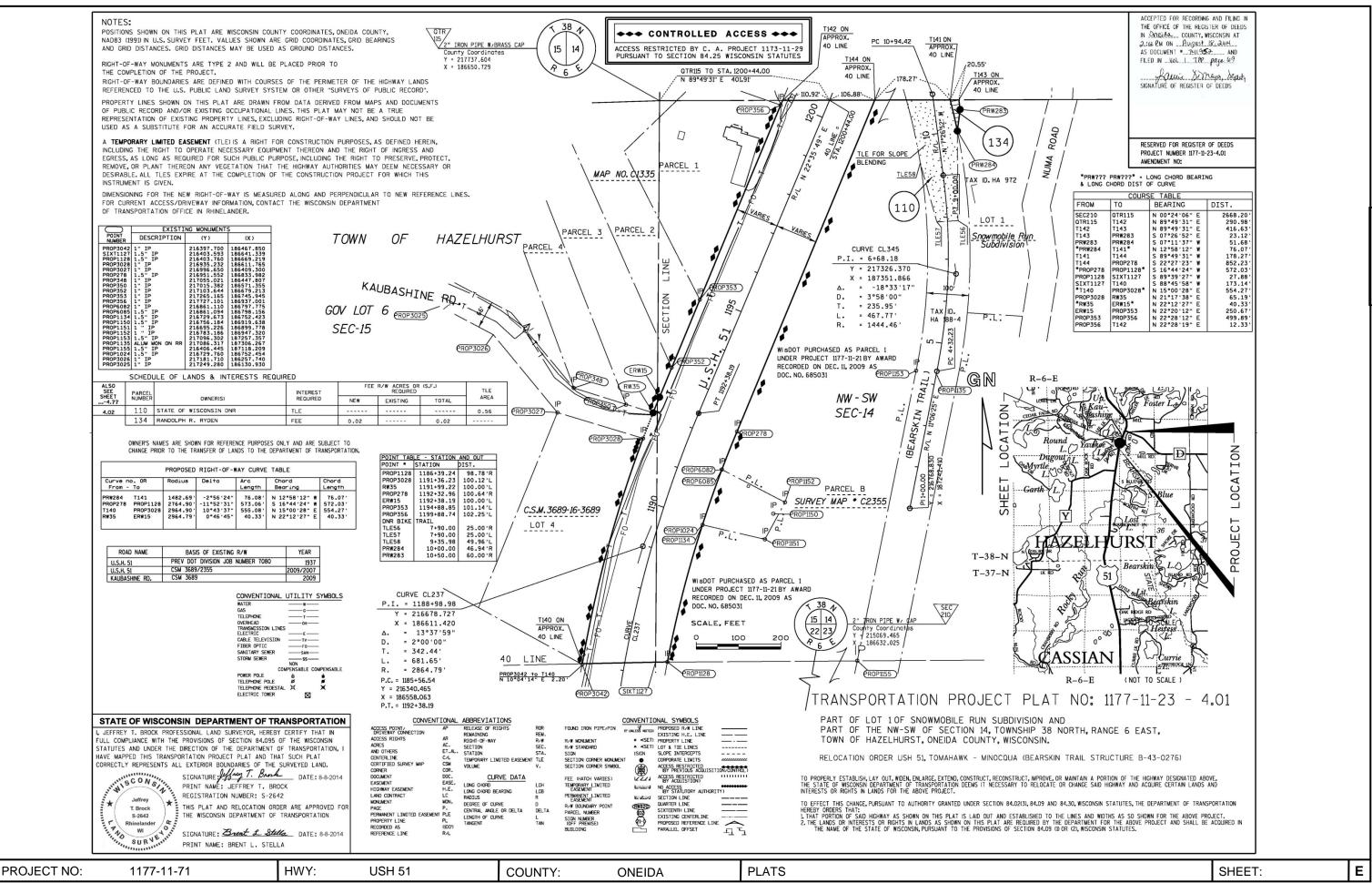
Division Division 1	From/To Station	Location	Common Excavation (1) Cut (2)	Unexpanded Fill	Expanded Fill (13) Factor	Mass Ordinate +/- (14)	Waste	Borrow (item #208.0100)
USH 51	1201+00 - 1208+00	USH 51	16,767	34	41	16,726	16,726	0
Division 1 Subtotal Division 2			16,767	34	41	16,726	16,726	0
Bearskin Trail Stage "A"	0+00 - 2+93.46	Bearskin Trail	1	1,710	2,053	-2,052	0	2,052
Bearskin Trail Stage "B"	7+50 - 20+00	Bearskin Trail	54	8,372	10,046	-9,992	0	9,992
Bearskin Trail Stage "C"	7+50 - 20+00	Bearskin Trail	81	1,703	2,044	-1,963	0	1,963
Division 2 Subtotal			136	11,785	14,142	-14,007		14,007
Grand Total			16,903.13	11,819.87	14,183.85	2,719.29	16,726.12	14,006.83
	Total Comm	on Exc						

EARTHWORK NOTES

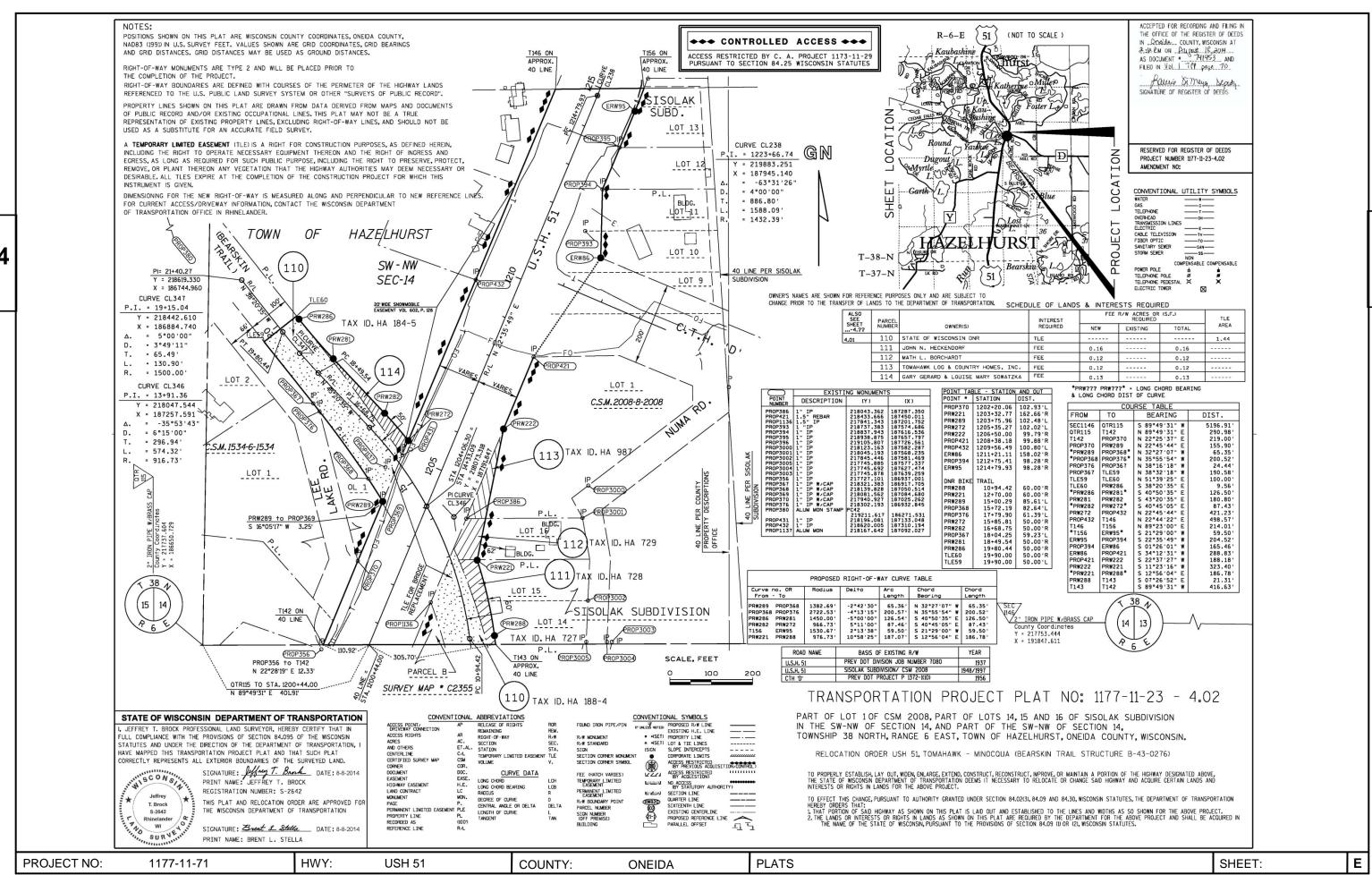
- 1) Expanded Fill Factor = 1.20
- 2) Expanded Fill = (Unexpanded Fill) * Fill Factor
- 3) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

PROJECT NO: 1177-11-71 H	HWY: USH 51	COUNTY: ONEIDA	MISCELLANEOUS QUANTITIES	SHEET:	П
--------------------------	-------------	----------------	--------------------------	--------	---

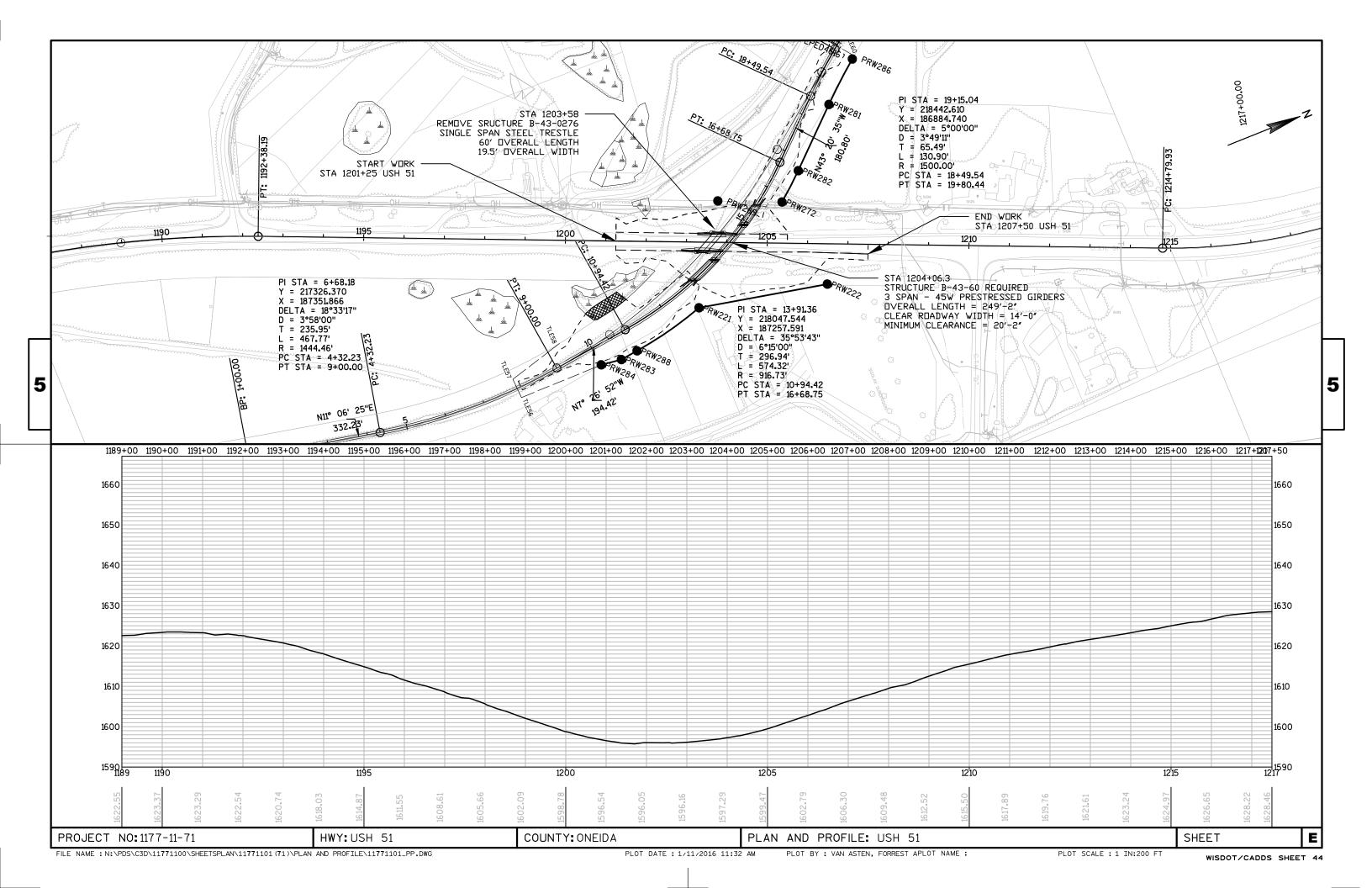
FILE NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT NAME : _____ PLOT SCALE :

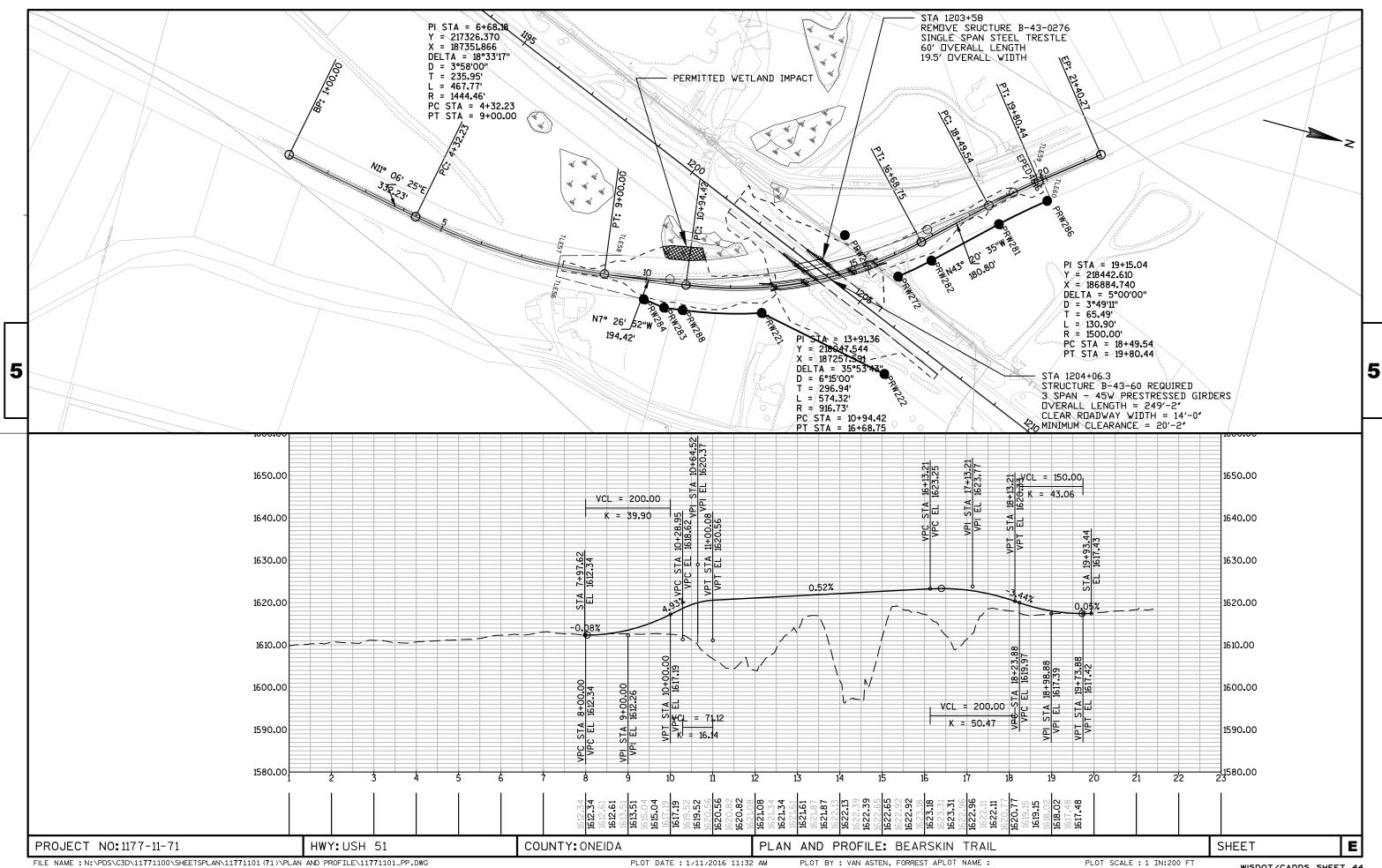


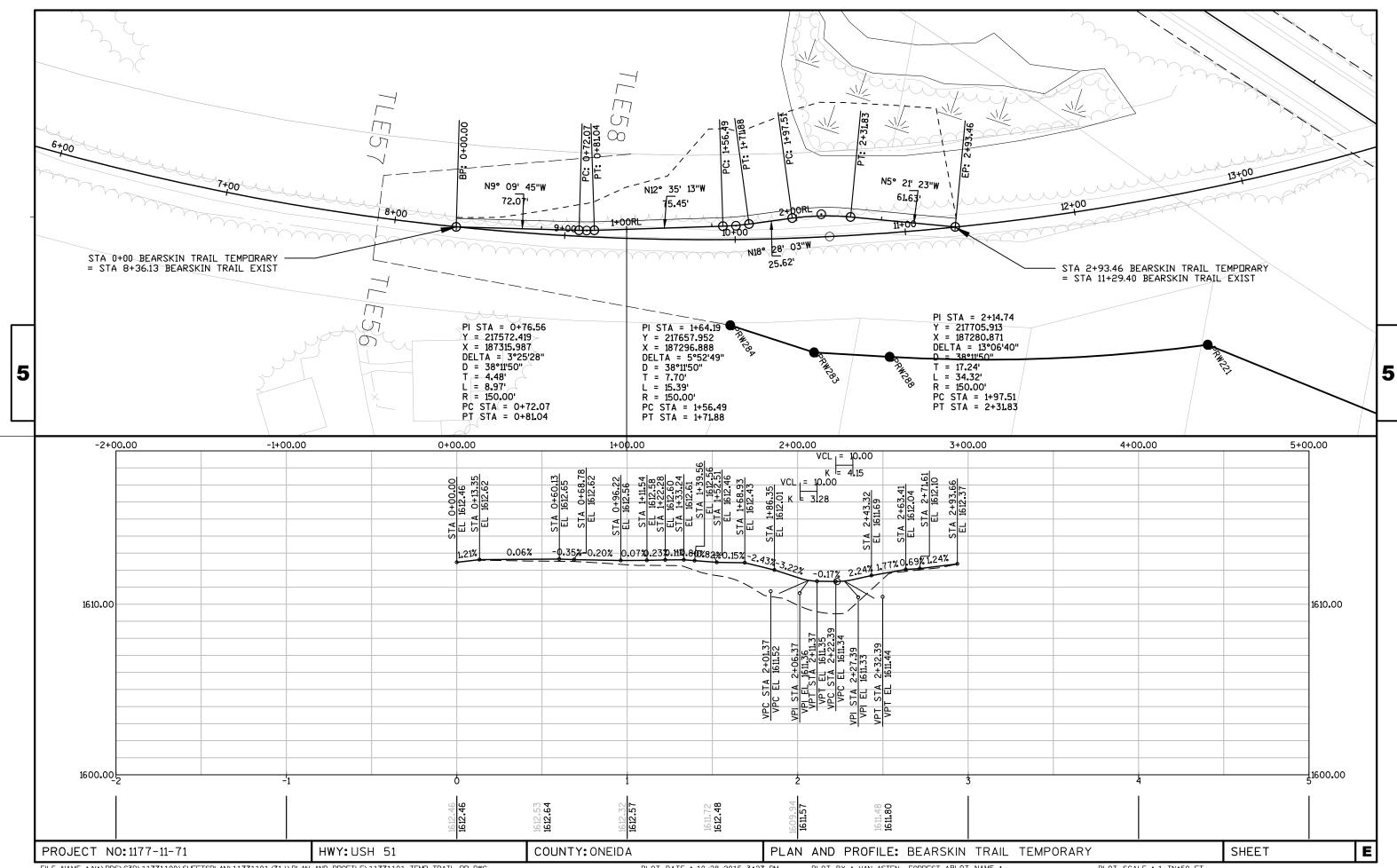
FILE NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1



FILE NAME : ______ PLOT BY : _____ PLOT NAME : _____ PLOT NAME : _____ PLOT SCALE : 1:1







Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
09G02-03A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
12A03-10	NAME PLATE (STRUCTURES)
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15C02-05A	BARRI CADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05R	BARRI CADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C04-02 15C08-16A	PAVEMENT MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C12-04 15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-03	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

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.

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

Ō Ö

 ∞ ∞ Ω

Δ

TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





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.

- \bigcirc 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



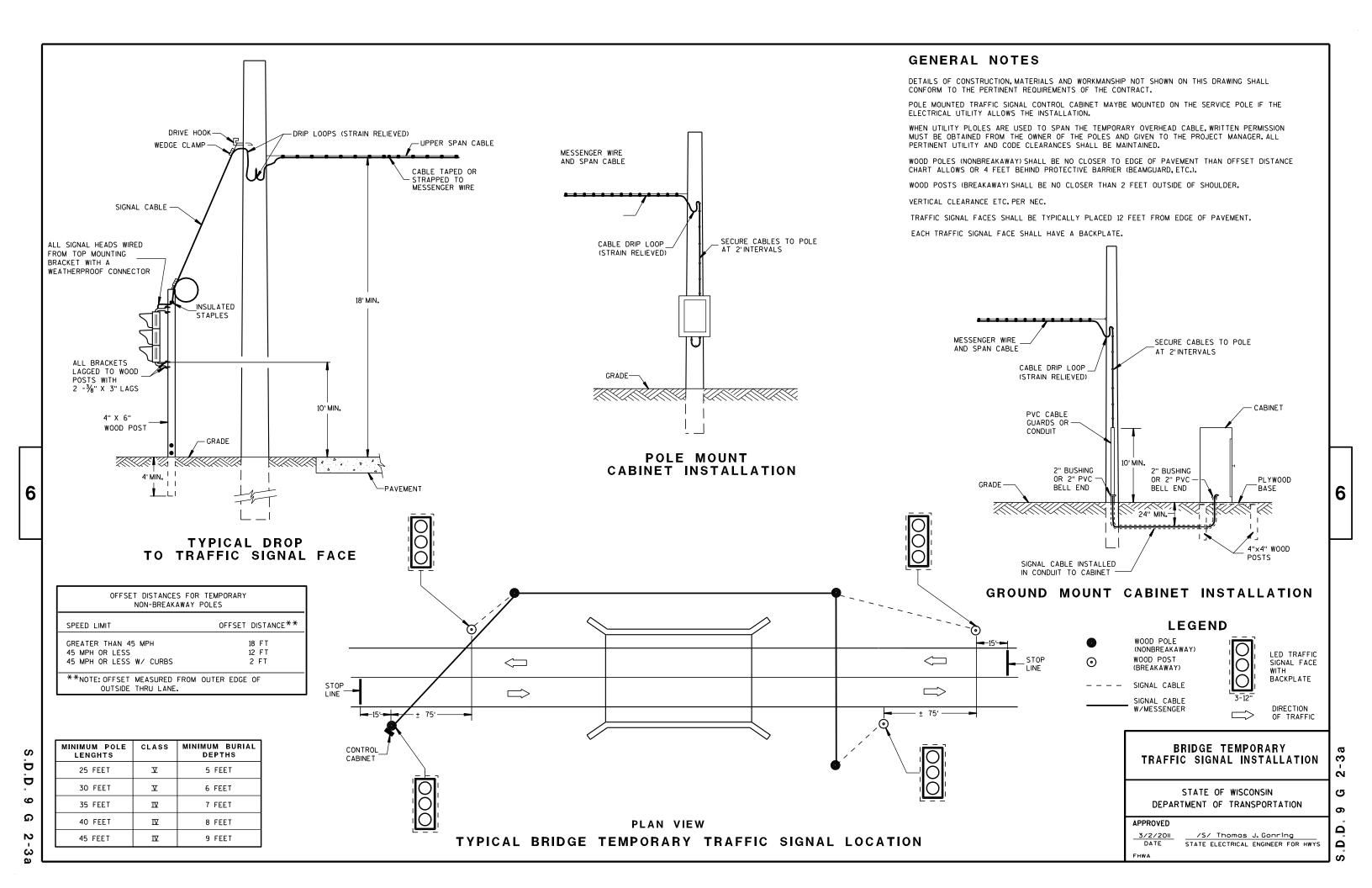
SILT FENCE TIE BACK

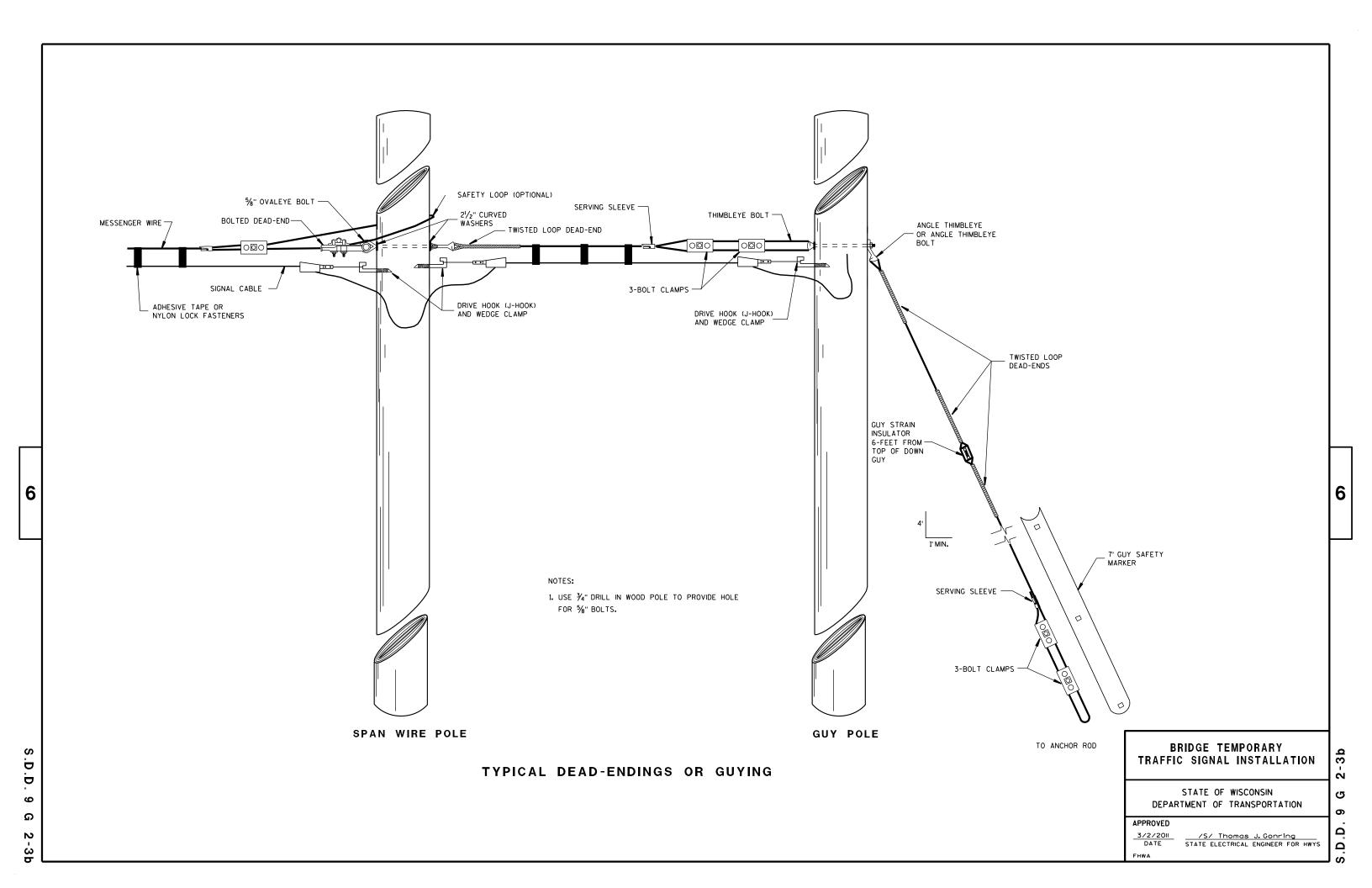
(WHEN REQUIRED BY THE ENGINEER)

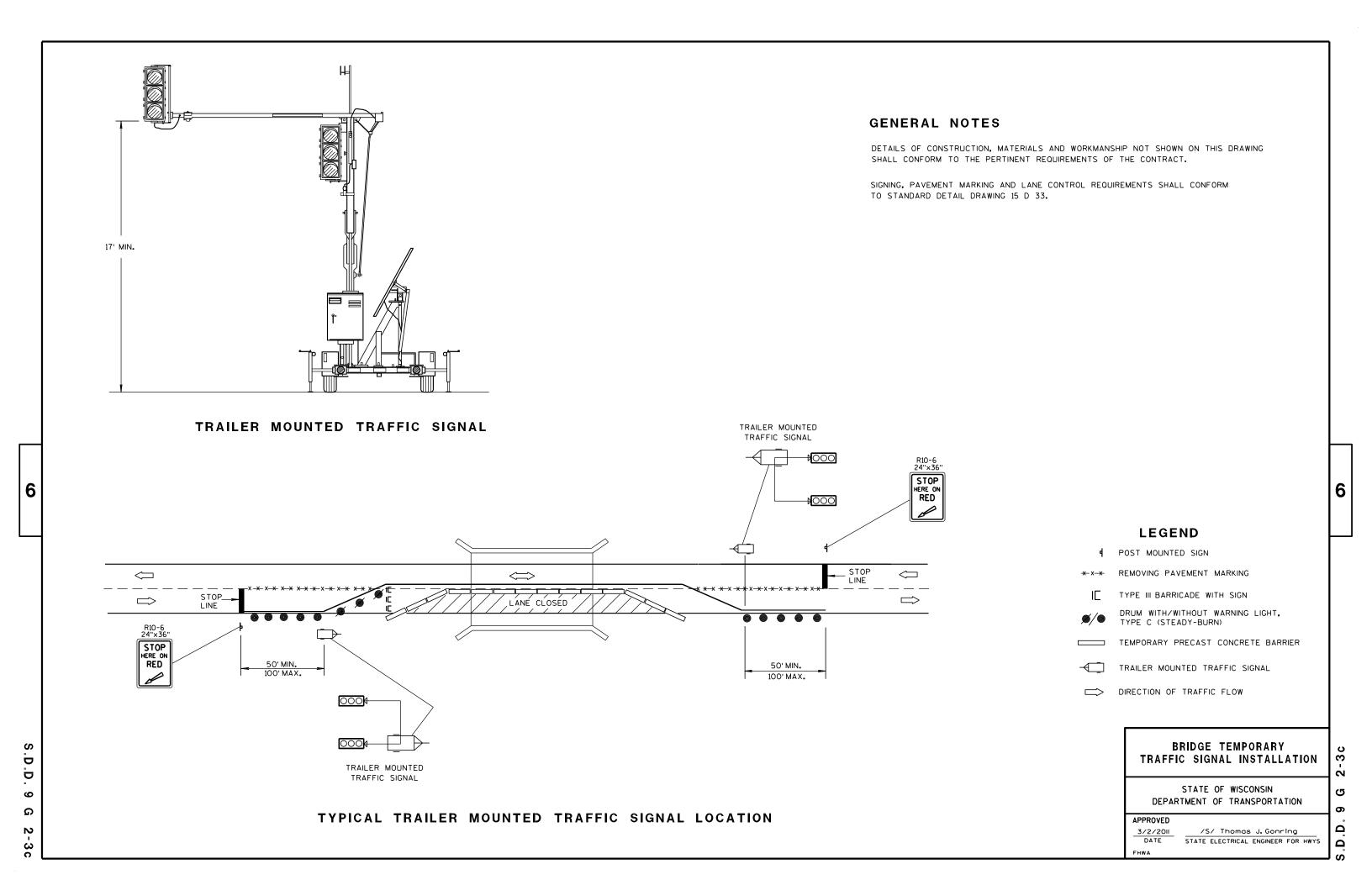


SILT FENCE

S.D.D. 8 E 9-6











TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

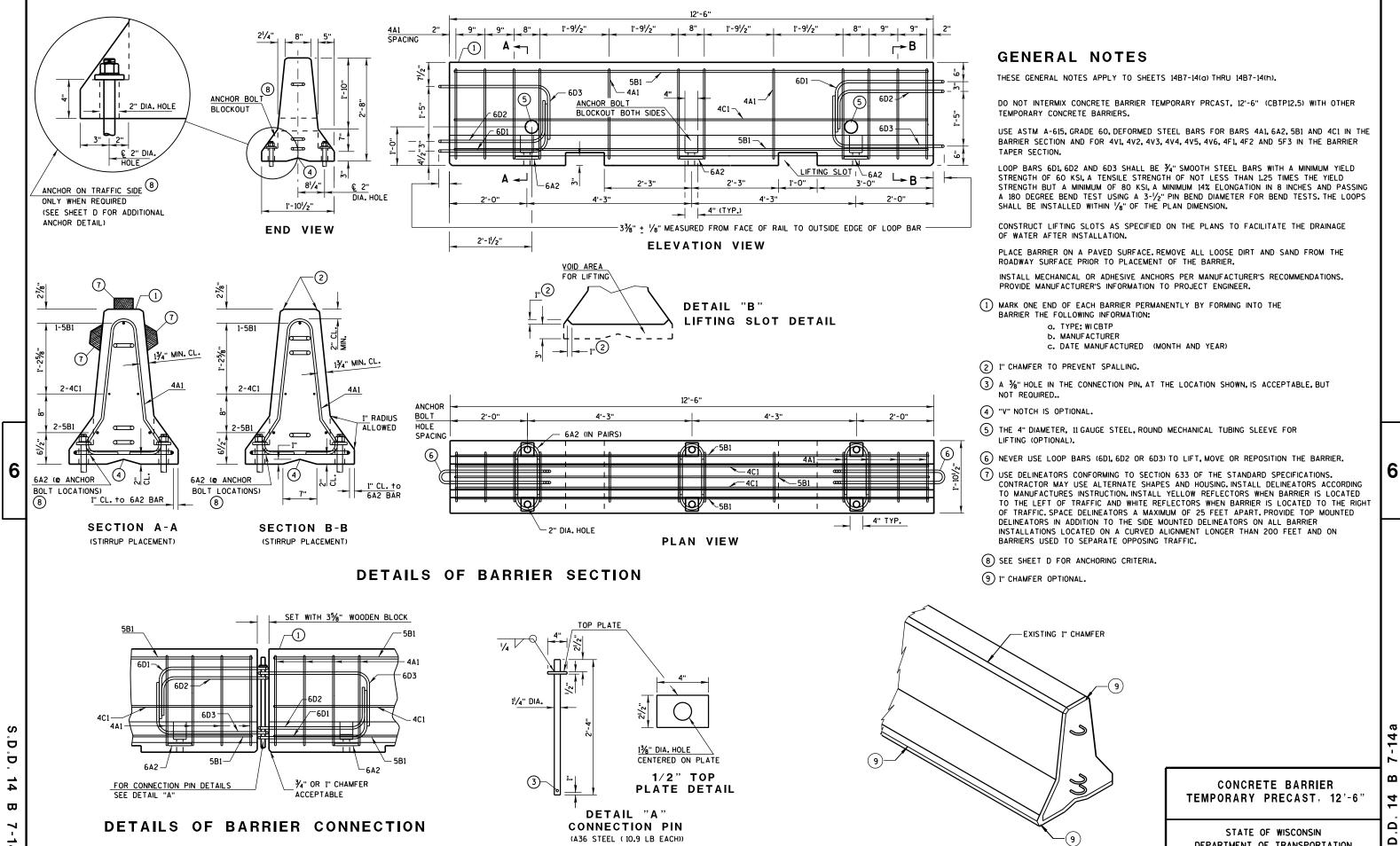
|--|

3/26/IO /S/ SCOT BECKET

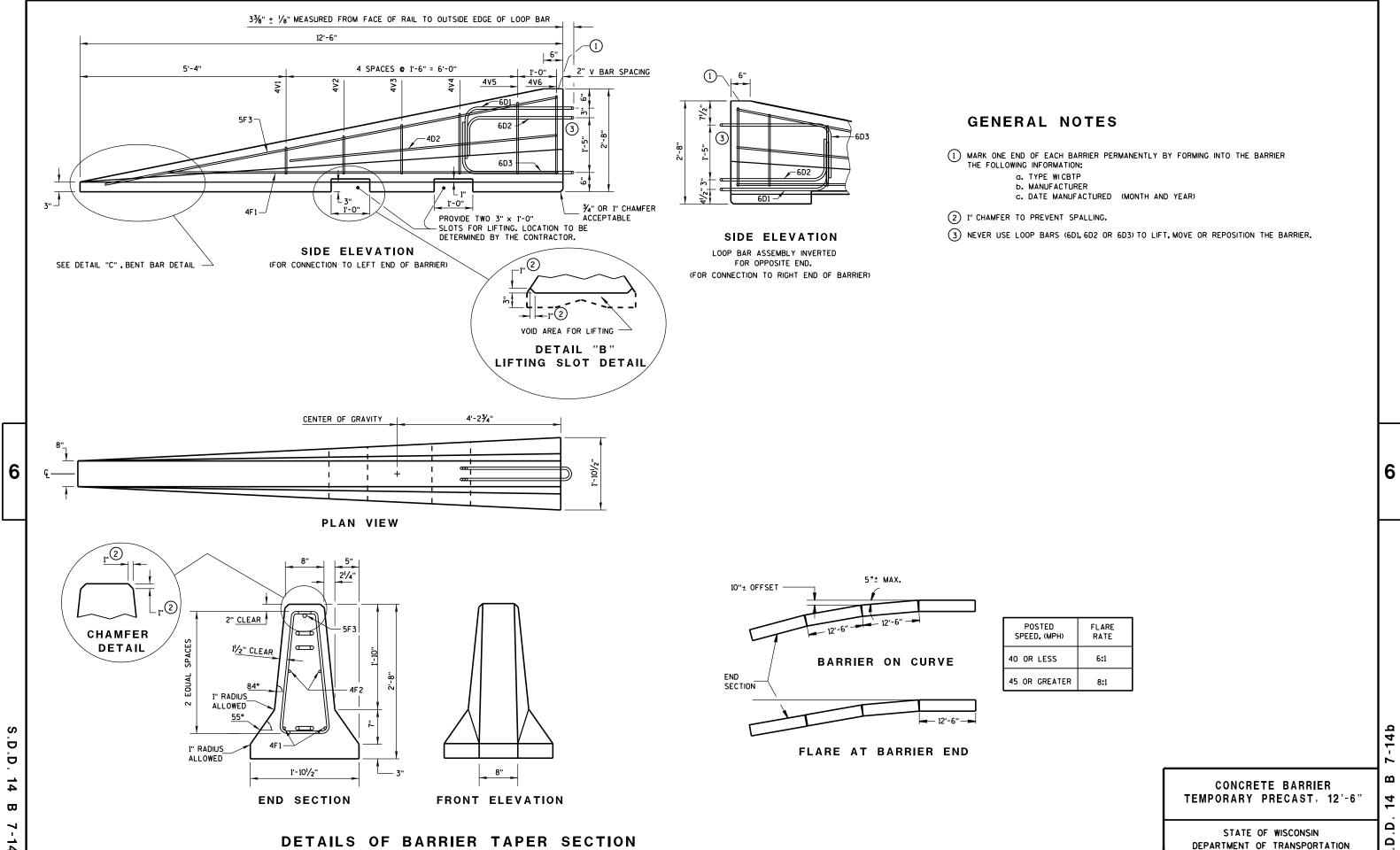
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



DEPARTMENT OF TRANSPORTATION



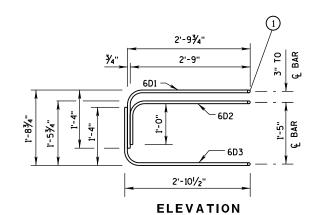
Ω

1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

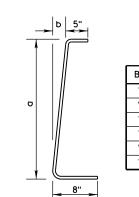
BARRIER TAPER SECTION BILL OF MATERIALS

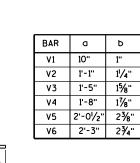
(PER 12'-6" BARRIER TAPER SECTION)

	WEN IE O BANNEN TAI EN SECTION					
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4V1	4	2	1'-11"			
4V2	4	2	2'-2"			
4٧3	4	2	2'-6"			
4V4	4	2	2'-9"			
4V5	4	2	3'-2"			
4V6	4	2	3'-4"			
4F1	4	2	12'-0"			
4F2	4	2	7'-6"			
5F3	5	1	11'-9"			
LOOP ASSEMBLY						
6D1	6	1	8'-5"			
6D2	6	1	7'-7"			
6D3	6	1	8'-6"			
		•	•			



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

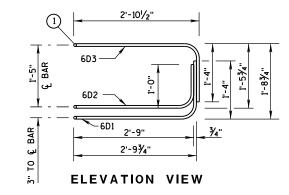
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

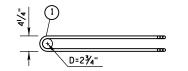
TAPER BARRIER SECTION

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

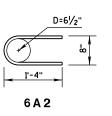
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

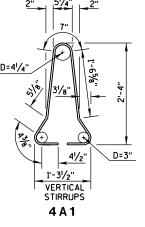




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)



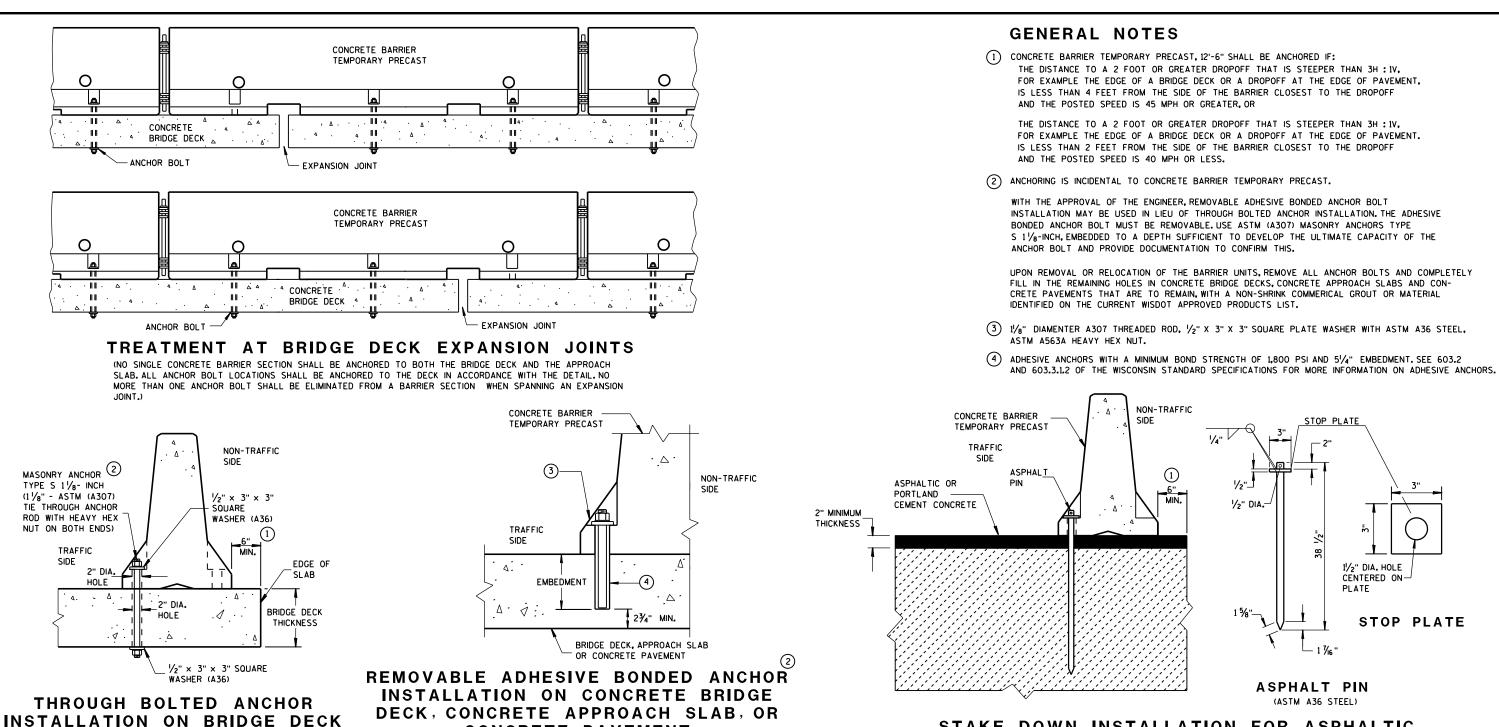


BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

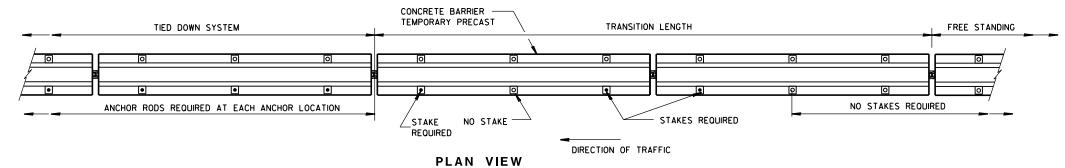
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

.D.D. 14 B 7-14c



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

6

D

 $\mathbf{\omega}$

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

11/2" DIA. HOLE

CENTERED ON-

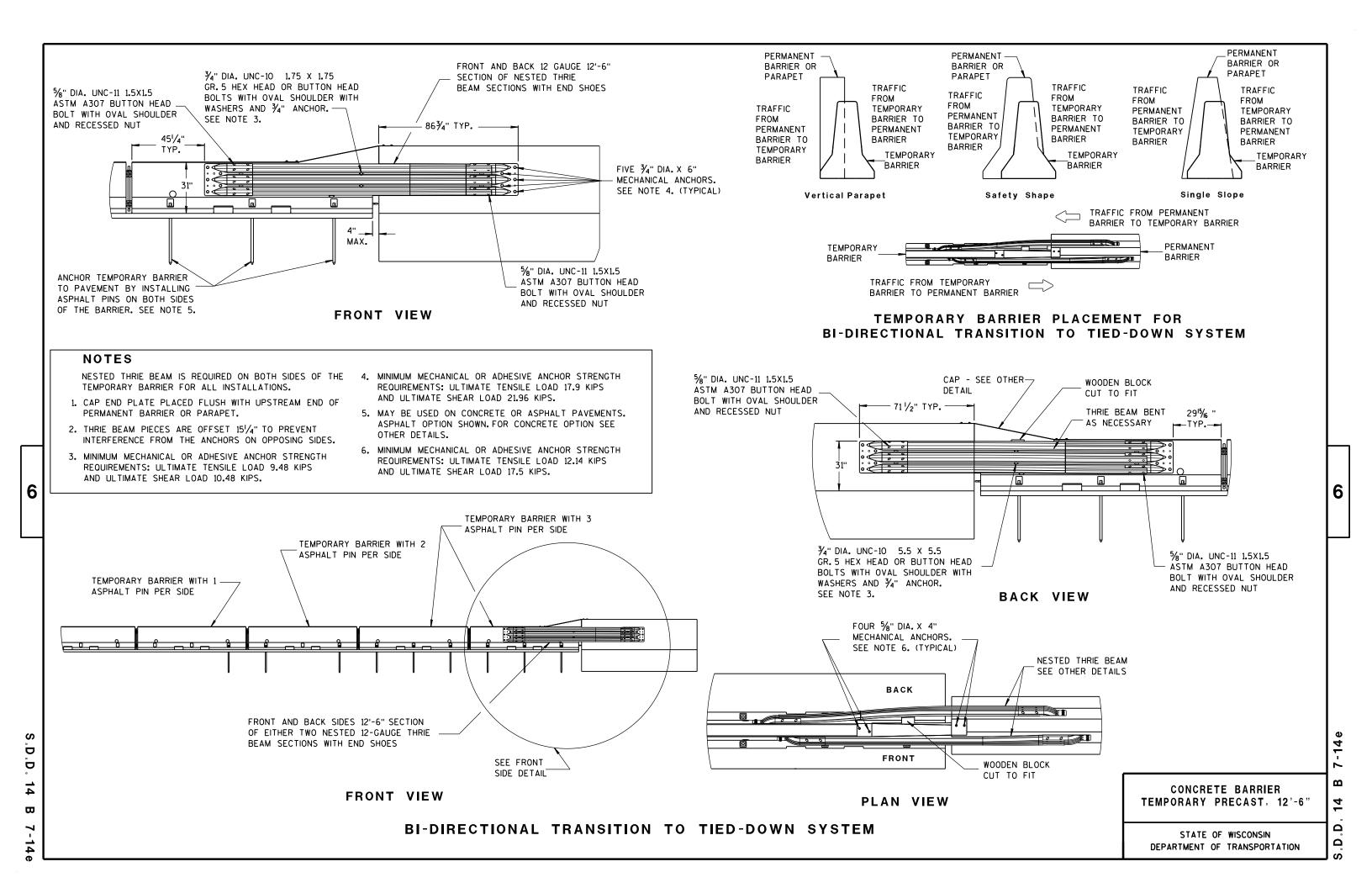
STOP PLATE

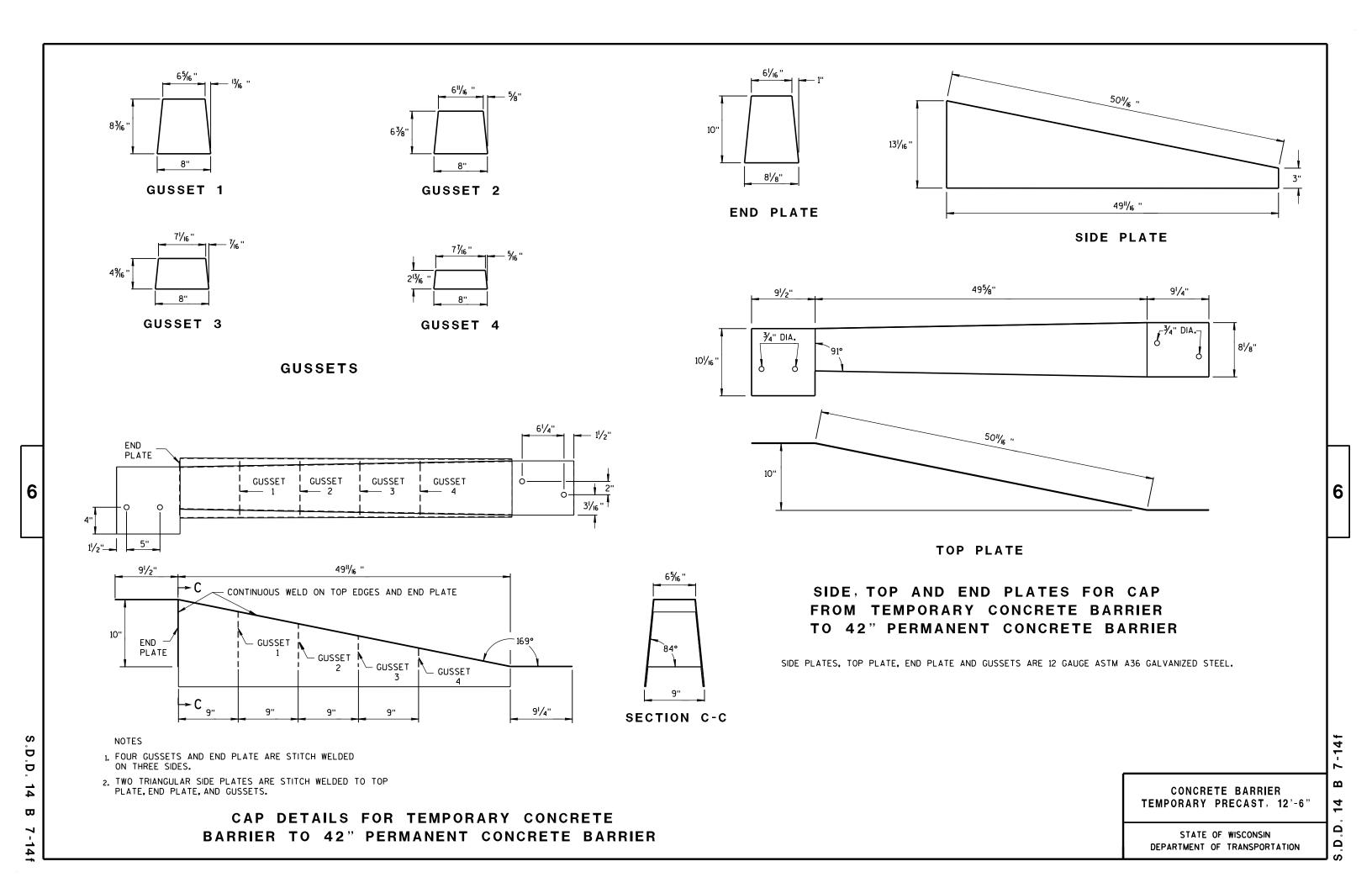
PLATE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

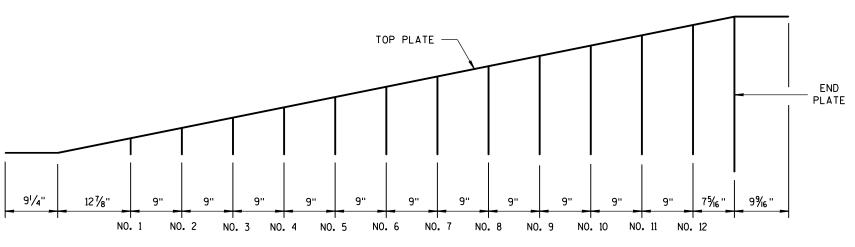
4 Δ Δ





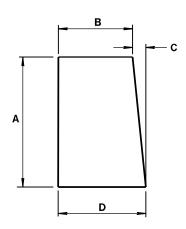
6

D Ď



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS					
GUSSET No.	A	В	С	D	
1	21/8"	73/4"	1/4"	8	
2	4"/16 "	7% "	1/2"	8	
3	61/2"	73/8"	11/16 "	8½6"	
4	85%"	73/16"	⅓ "	81/16"	
5	101/8"	7"	1 1/16 "	81/16"	
6	11 ¹⁵ / ₁₆ ''	6 ¹³ // ₆ "	1 1/4"	81/16"	
7	13¾"	65/8"	1 1/6"	81/16 "	
8	15% "	6 ½ "	1 % "	81/16"	
9	173/8"	61/4"	1 13/16 ''	81/16"	
10	193/6"	6½ ₆ "	1 15/16 "	81/16 "	
11	21"	5 1/8"	23/6"	8½ ₆ "	
12	22 ¹³ / ₁₆ "	5 ¹¹ / ₁₆ "	25/6"	8½ ₆ "	

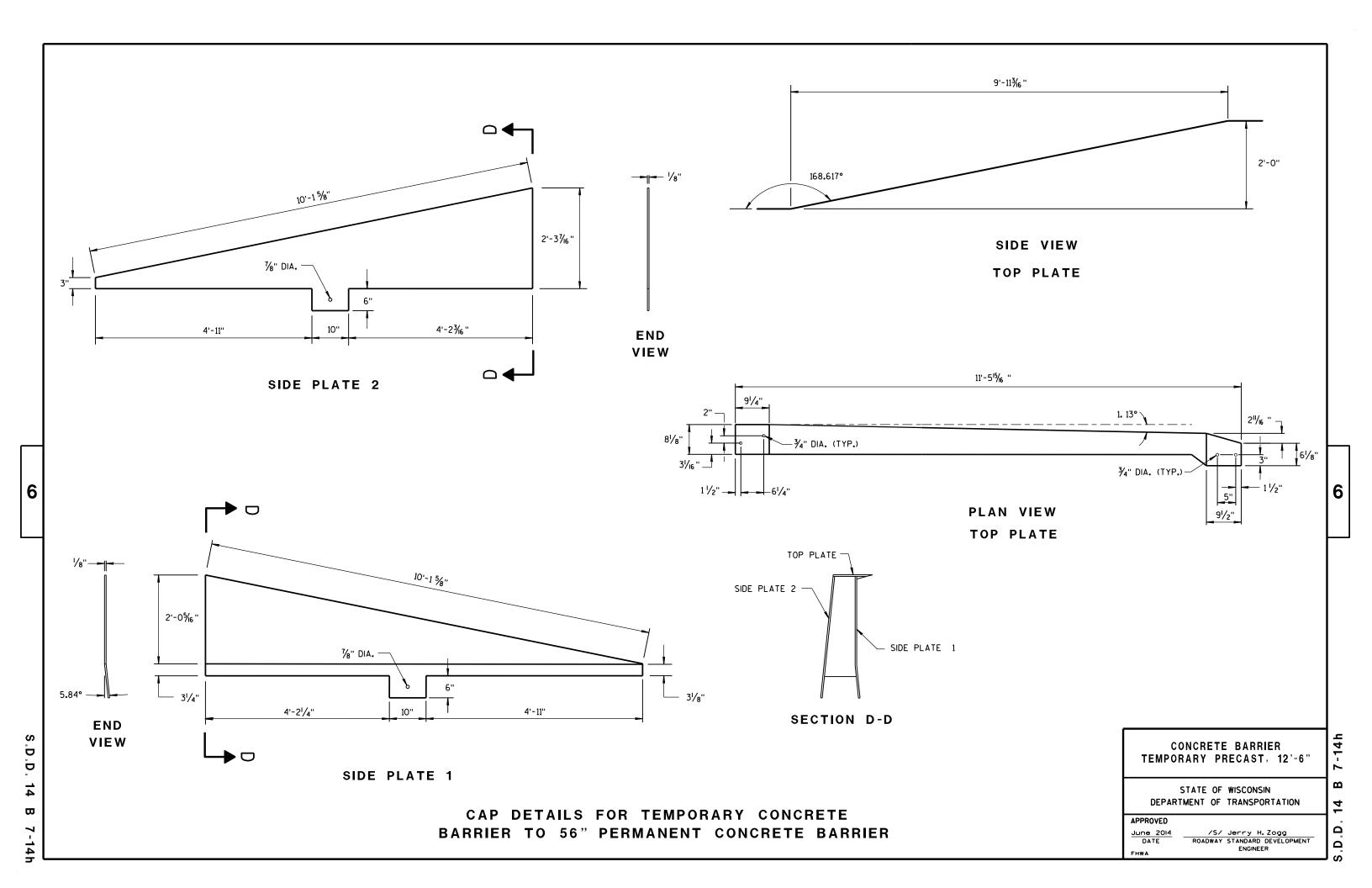
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Ω Ω

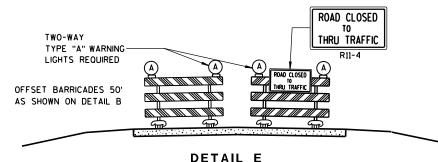




BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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.

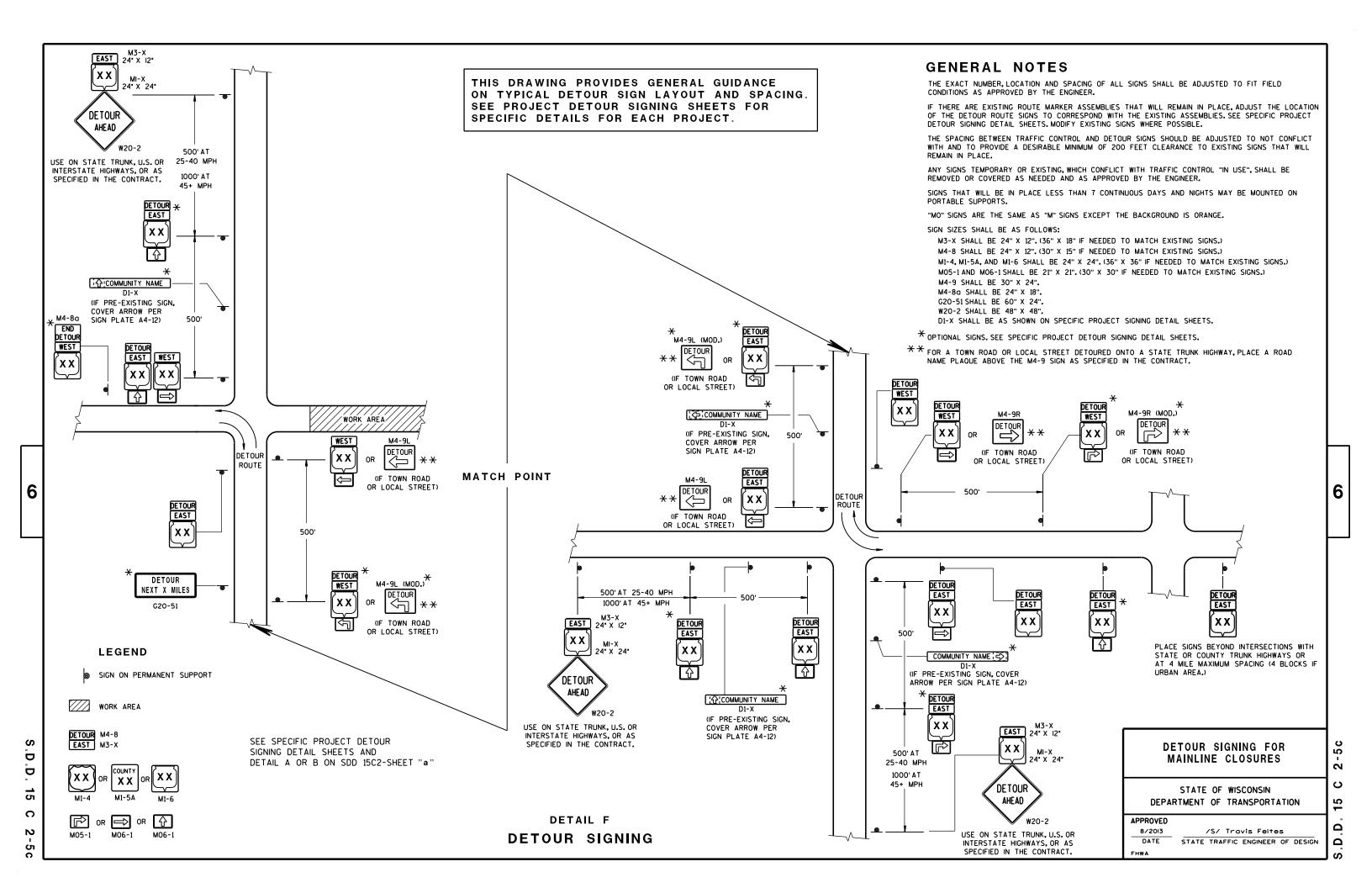
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

Δ



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

6

S

D

D

15

C

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

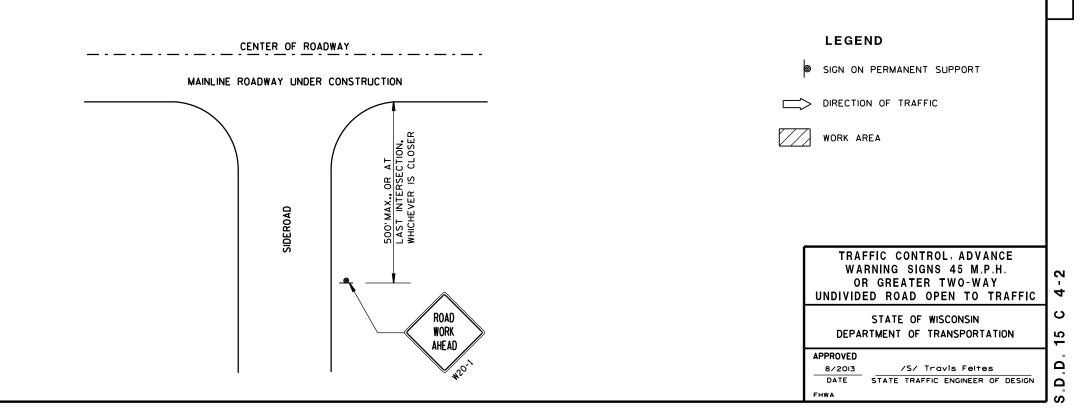
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

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

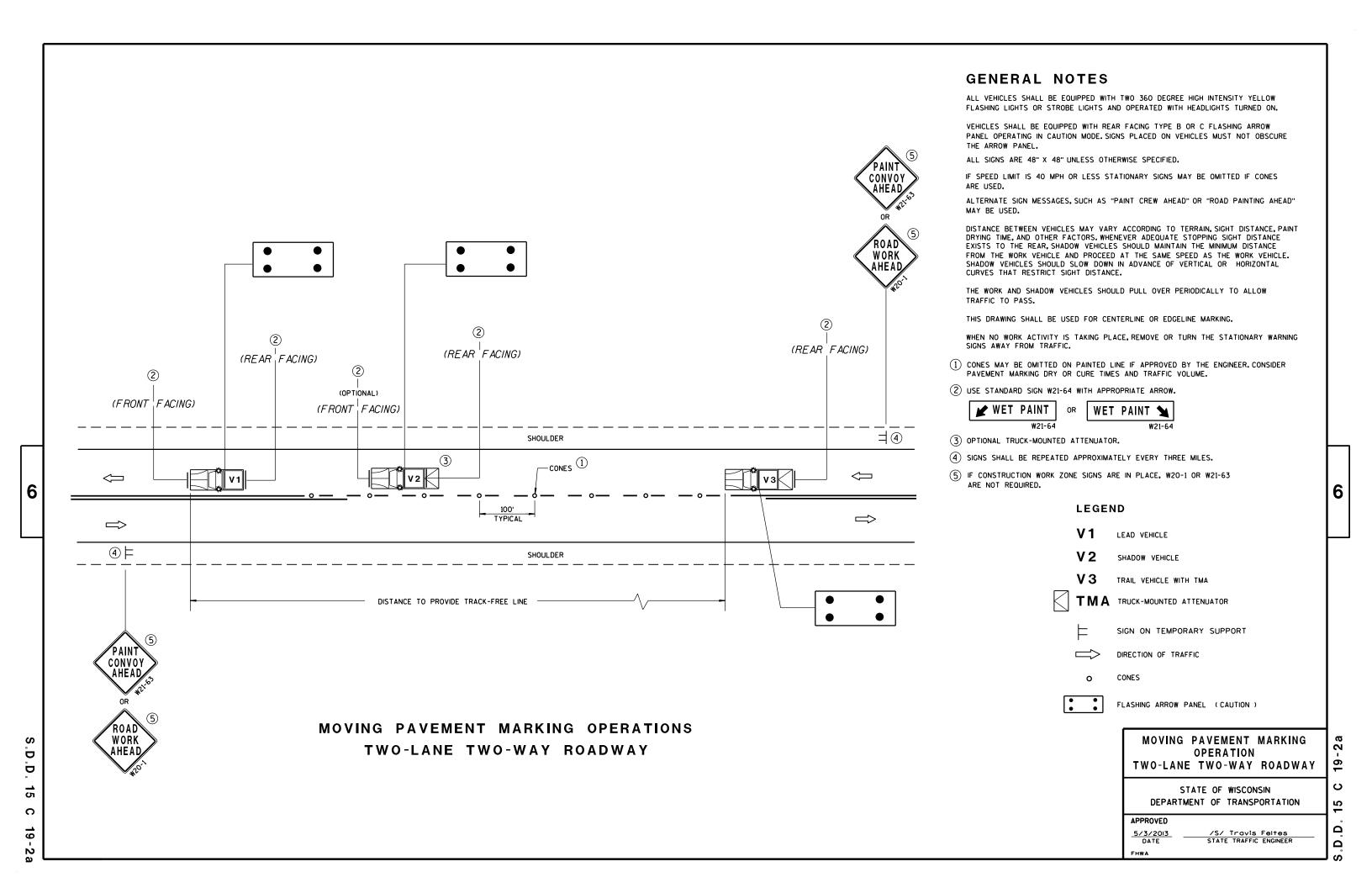
IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

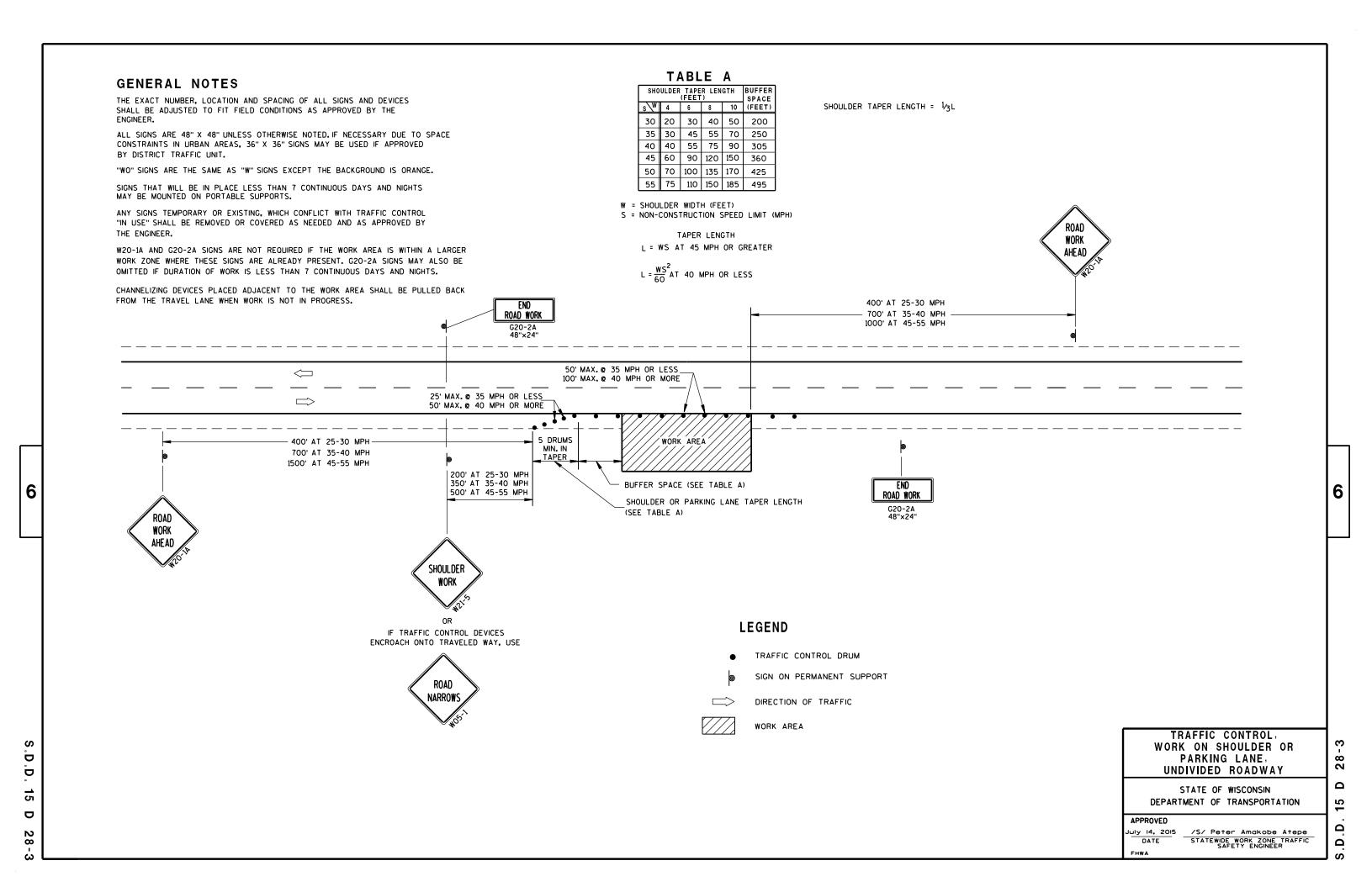
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

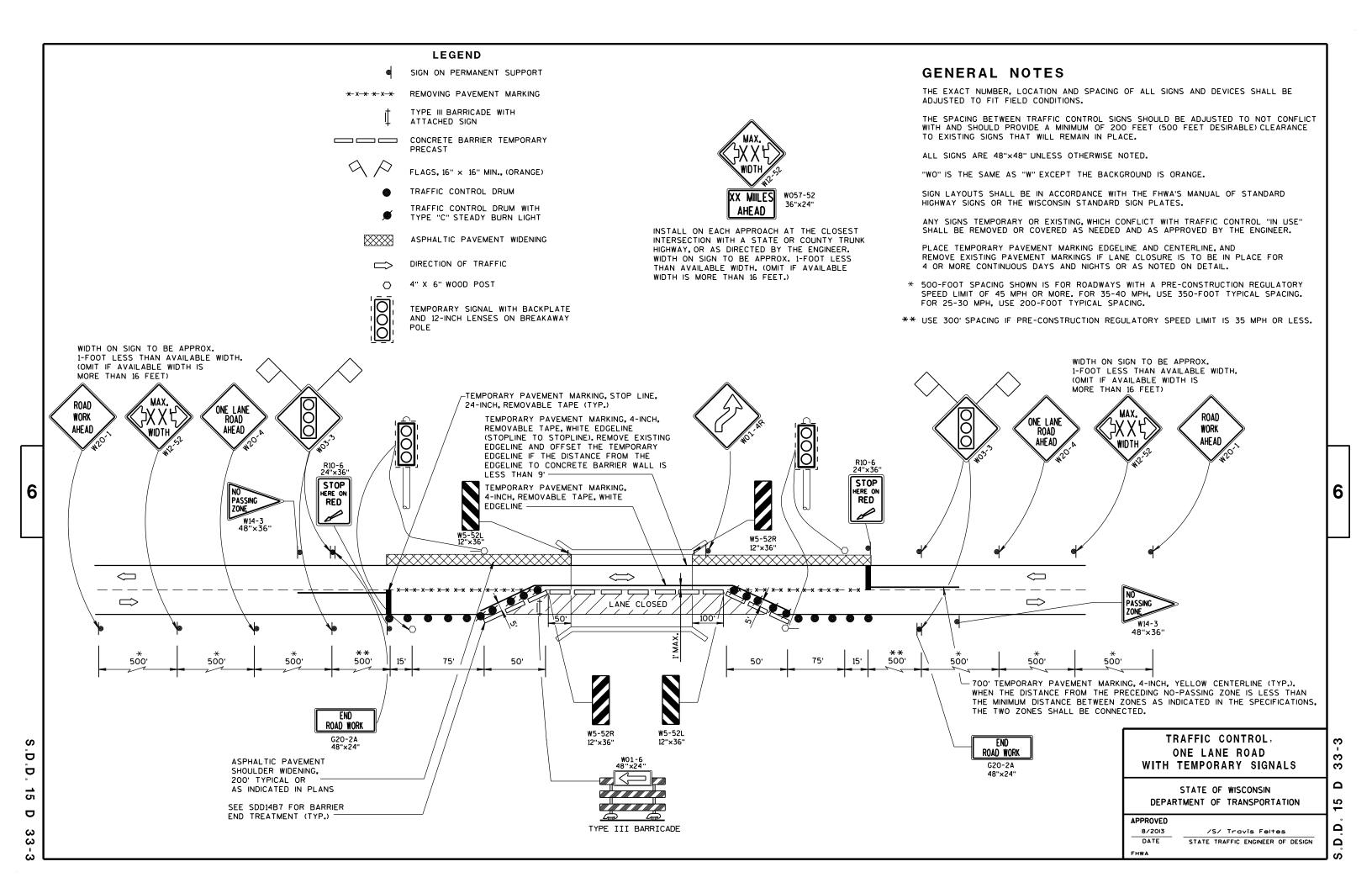


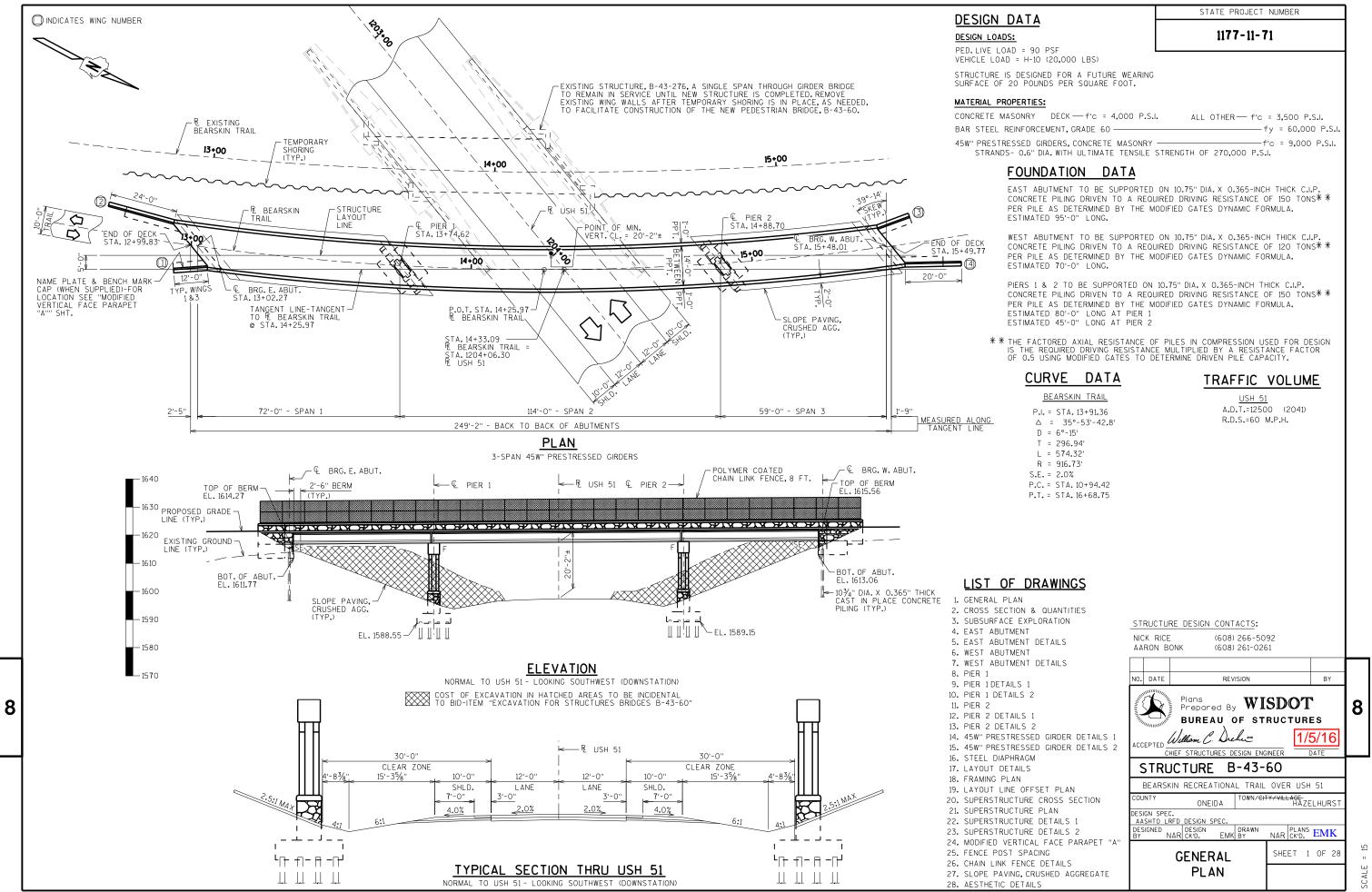












BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE ENTIRE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON ABUTMENT WINGS.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

CONCRETE FOR ABUTMENT AND PIER DIAPHRAGMS SHALL BE PLACED WITH THE DECK CONCRETE.

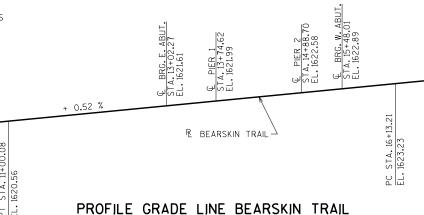
POLYMER OVERLAY TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE. DO NOT APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF DECK SURFACE.

ALL FORMLINER WORK SHALL BE COVERED UNDER THE BID ITEM "ARCHITECTURAL SURFACE TREATMENT".

ALL ARCHITECTURAL SURFACE TREATMENT AREAS TO BE STAINED. WORK TO BE PAID FOR UNDER THE BID ITEM "CONCRETE STAINING MULTI-COLOR B-43-60".

STAINING OF NON-ARCHITECTURAL SURFACE TREATMENT (PLAIN CONCRETE) AREAS SHALL BE PAID FOR UNDER THE BID ITEM "CONCRETE STAINING B-43-60".

IF TOUCH UP PAINTING IS REQUIRED, IT SHALL BE DONE TO THE SATISFACTION OF THE FIELD ENGINEER AT NO ADDITIONAL COST.

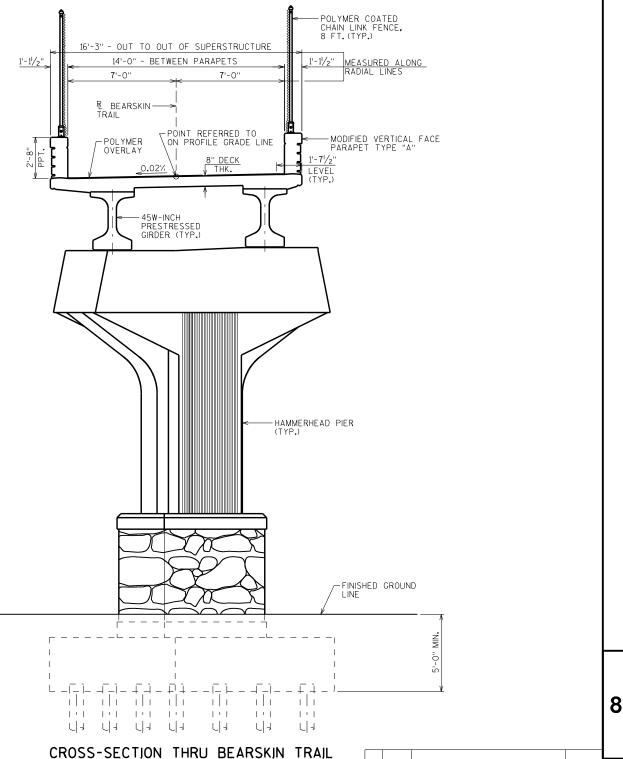


TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	EAST ABUT.	WEST ABUT.	PIER 1	PIER 2	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 13+50	LS						1
203.0225.S	DEBRIS CONTAINMENT B-43-276	LS						1
206.1000	EXCAVATION FOR STRUCTURES B-43-60	LS						1
210.0100	BACKFILL STRUCTURE	CY		110	90			200
502.0100	CONCRETE MASONRY BRIDGES	CY	204	50	42	60	60	416
502.3210	PIGMENTED SURFACE SEALER	SY	215	15	15			245
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	493					493
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		1,970	1,720	1,210	1,210	6,110
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	32,040	2,780	2,300	7,610	7,610	52,340
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	12					12
506.4000	STEEL DIAPHRAGMS B-43-60	EACH	4					4
509.5100.S	POLYMER OVERLAY	SY	390					390
511.1200	TEMPORARY SHORING B-43-60	SF		1,105	1,015			2,120
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		10	10			20
51 7. 1010.S	CONCRETE STAINING B-43-60	SF	5,055	65	55	775	775	6,725
51 7. 1015.S	CONCRETE STAINING MULTI-COLOR B-43-60	SF	1,105	295	250	165	165	1,980
51 7. 1050.S	ARCHITECTURAL SURFACE TREATMENT B-43-60	SF	1,105	295	250	165	165	1,980
550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF		475	350	1280	7 20	2,825
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY		180	150			330
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		60	55			115
SPV.0090	FENCE CHAIN LINK POLYMER COATED 8-FT	LF	500	35	31			566
	NON-BID ITEMS							
	FILLER	SIZE						1/2",3/4",& 1"

STATE PROJECT NUMBER

1177-11-71



NORMAL TO BEARSKIN TRAIL - LOOKING NORTHWEST

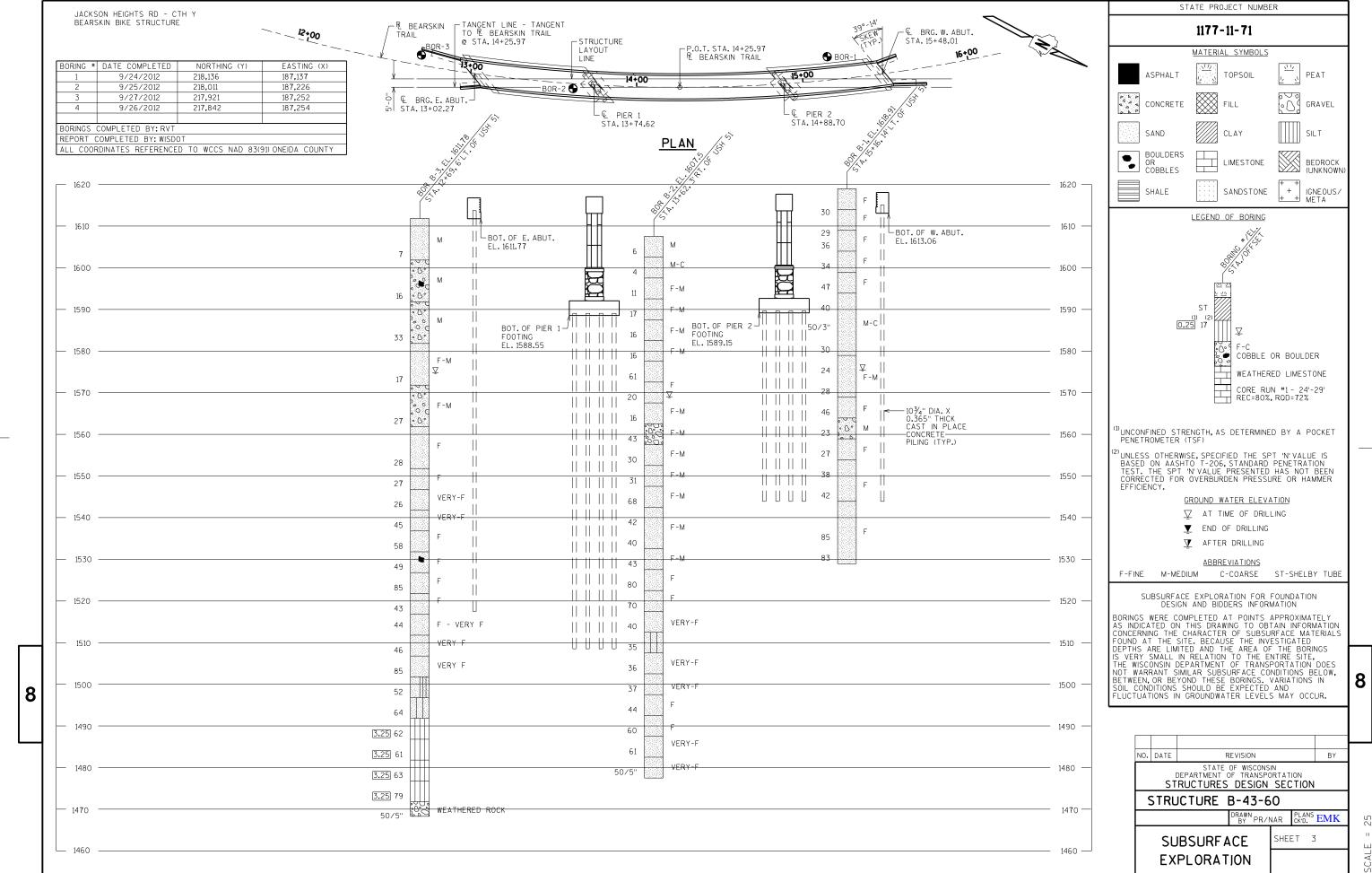
NO. DATE REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

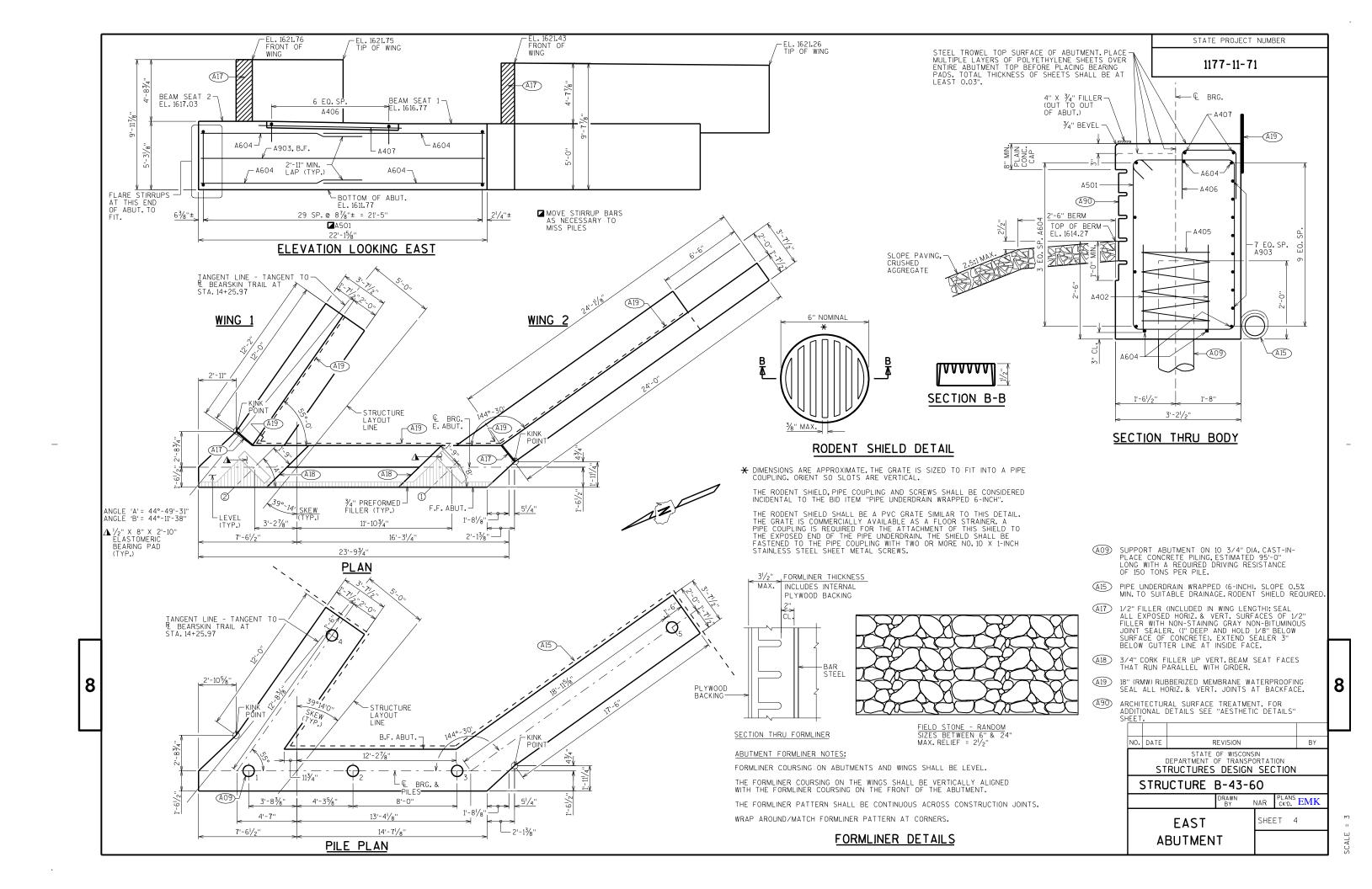
STRUCTURE B-43-60 NAR CK'D. EMK

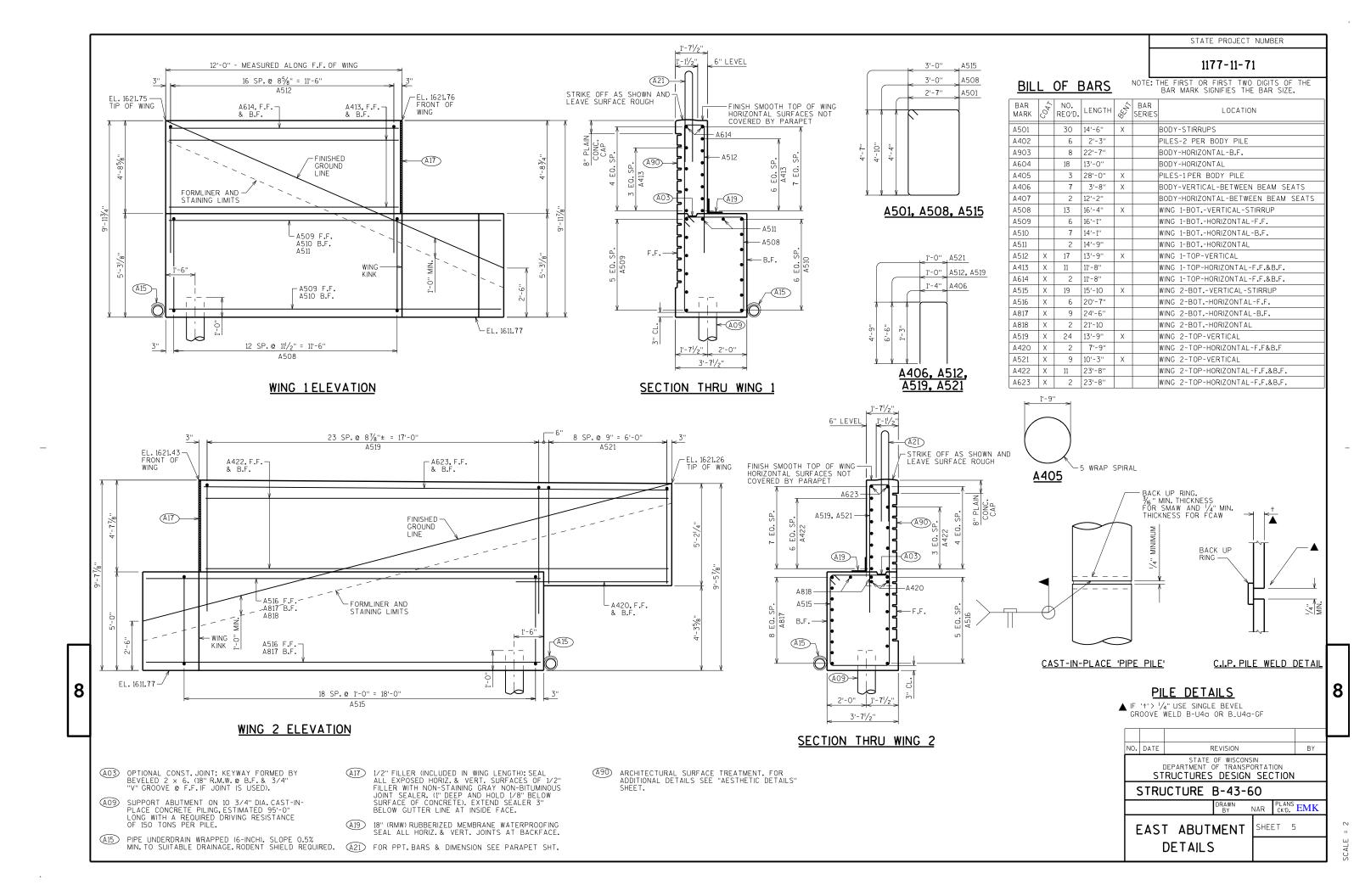
CROSS SECTION & QUANTITIES

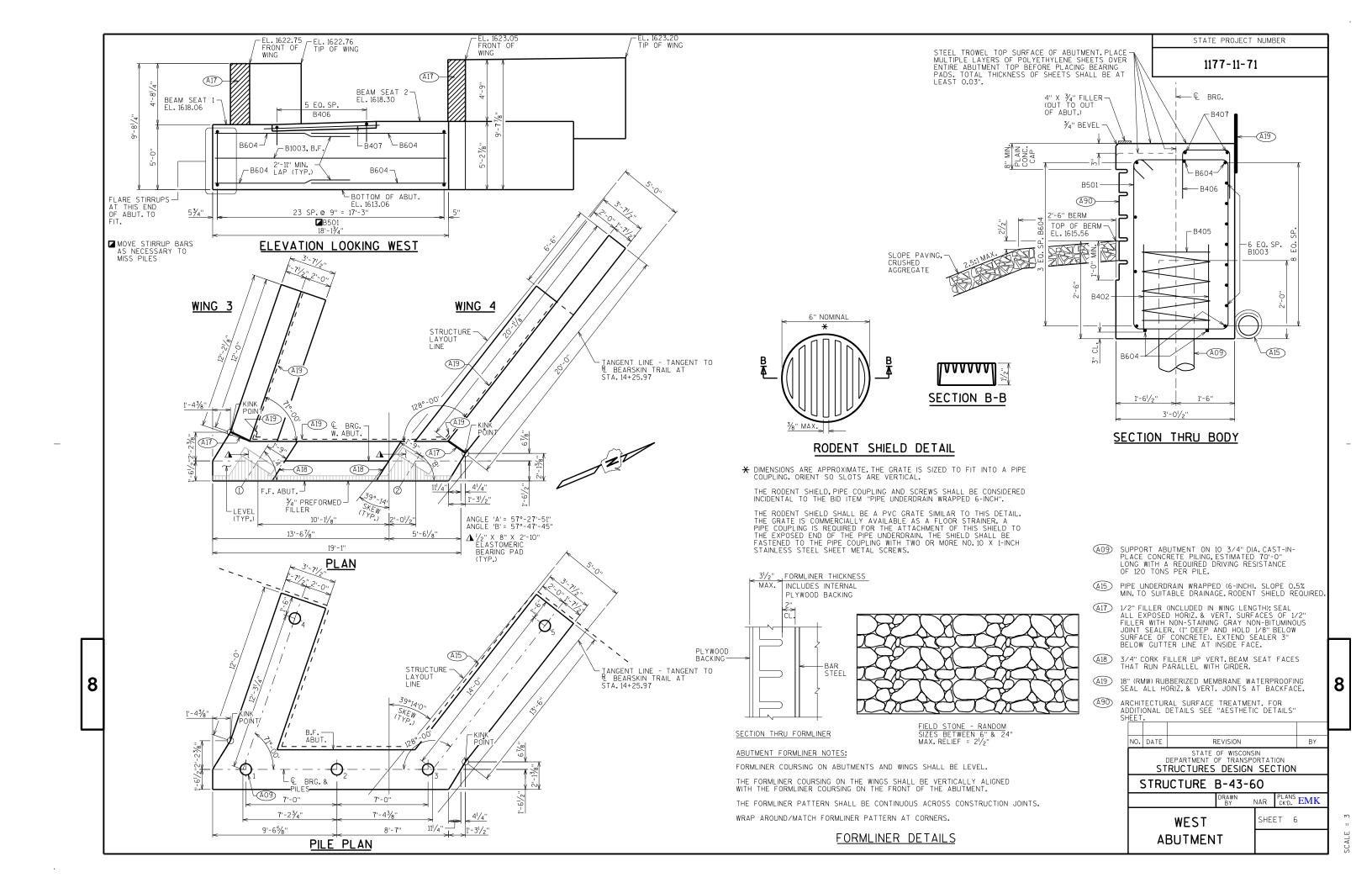
BY

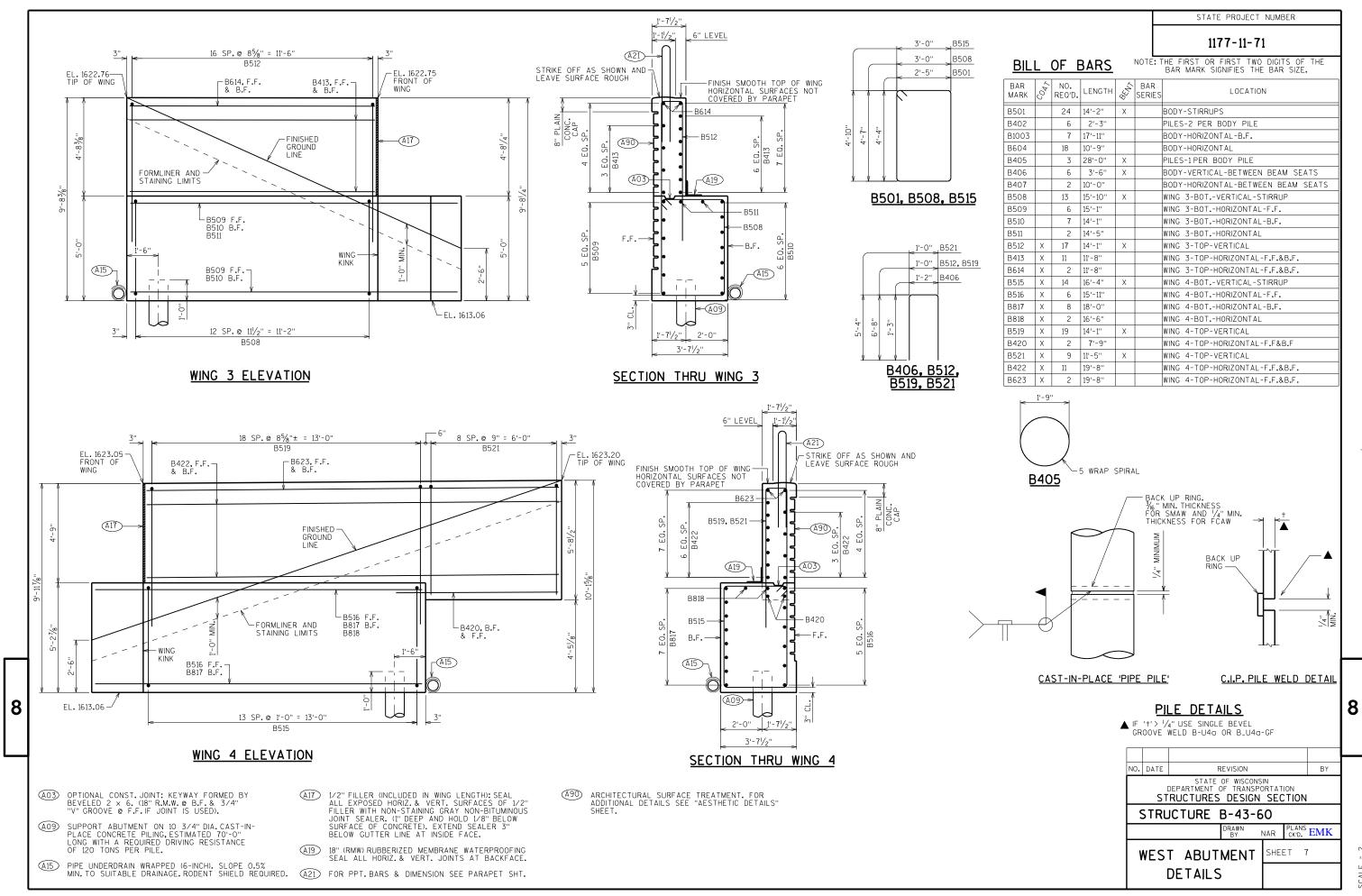
SHEET 2

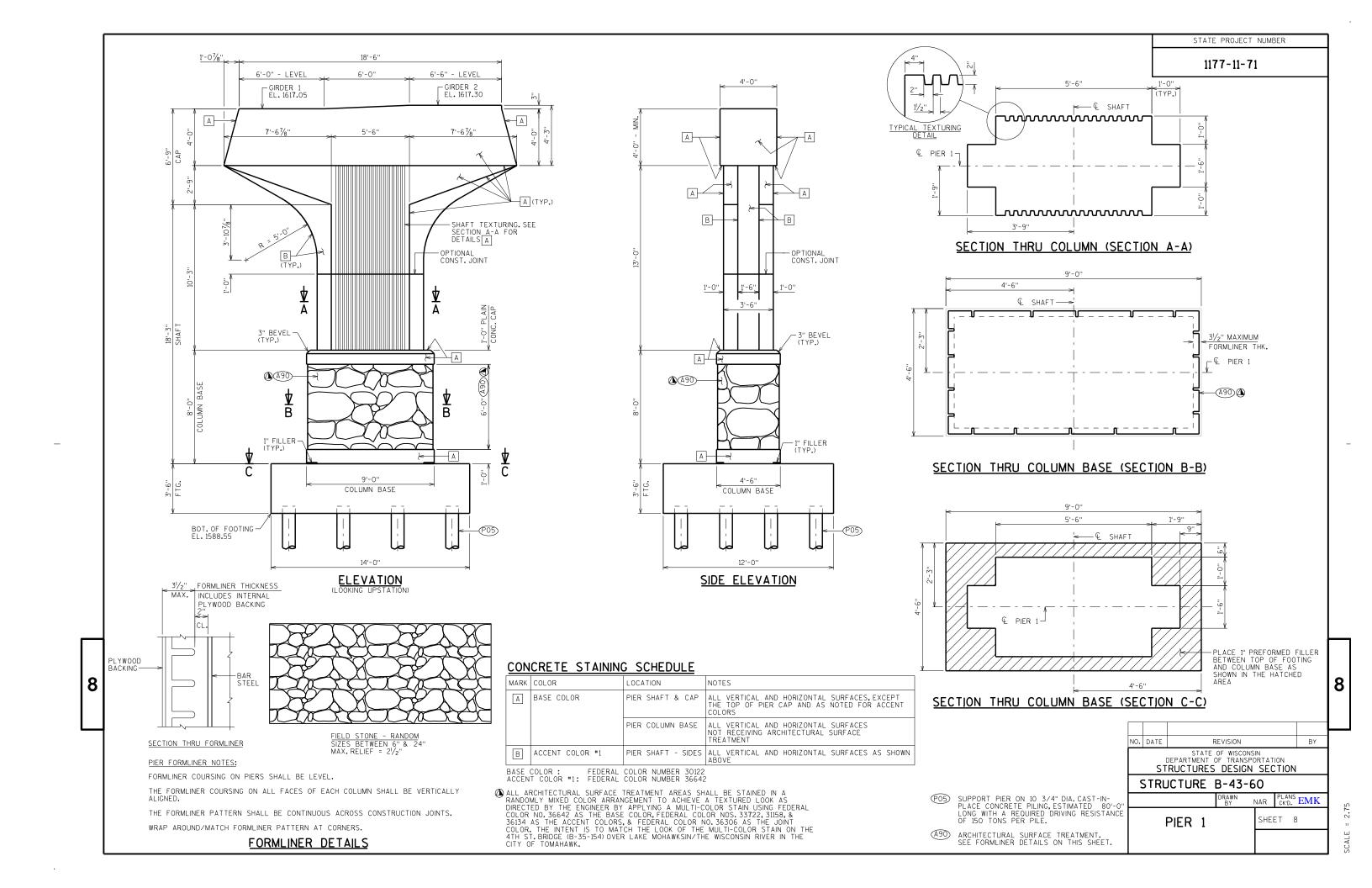


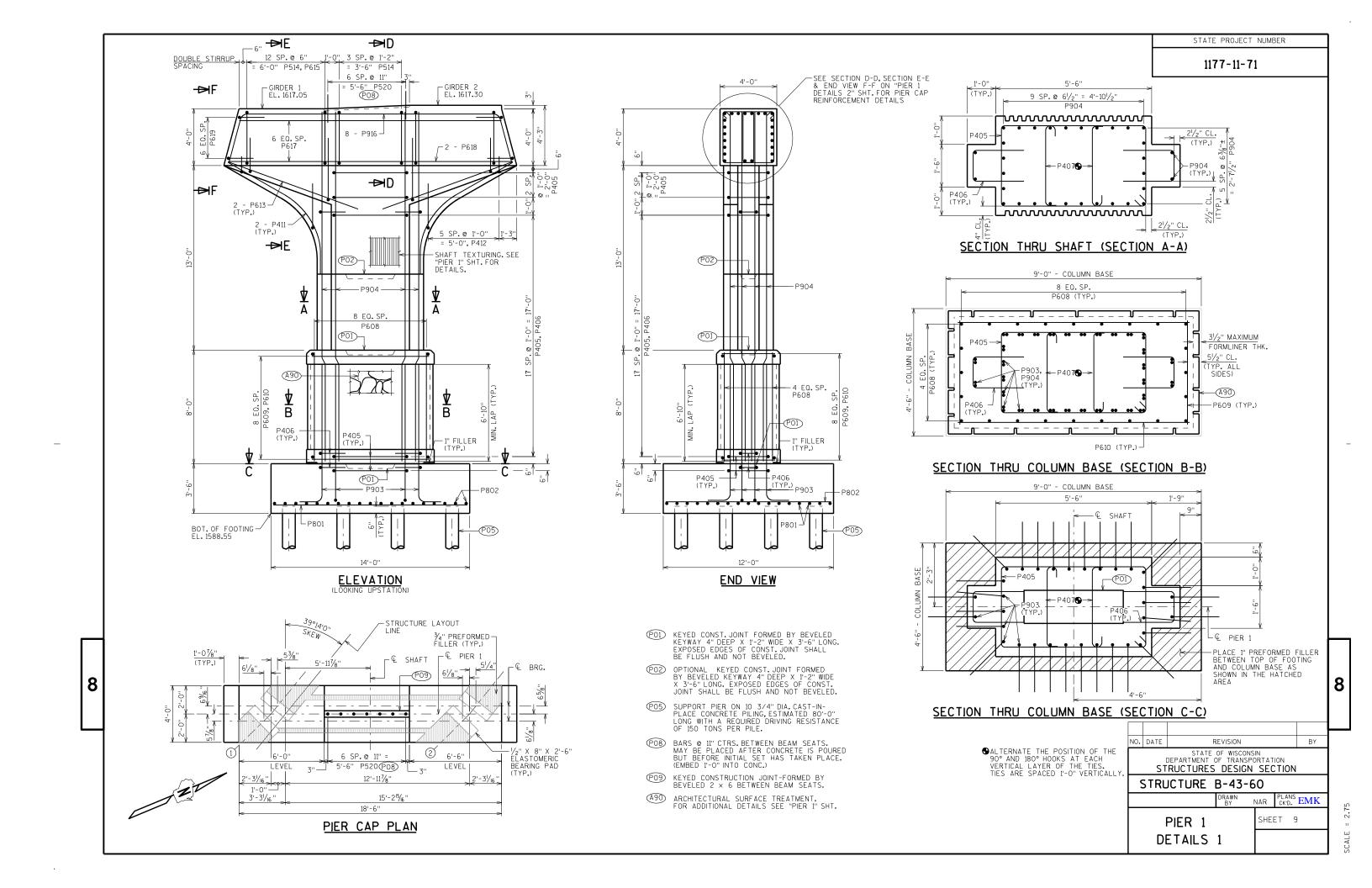


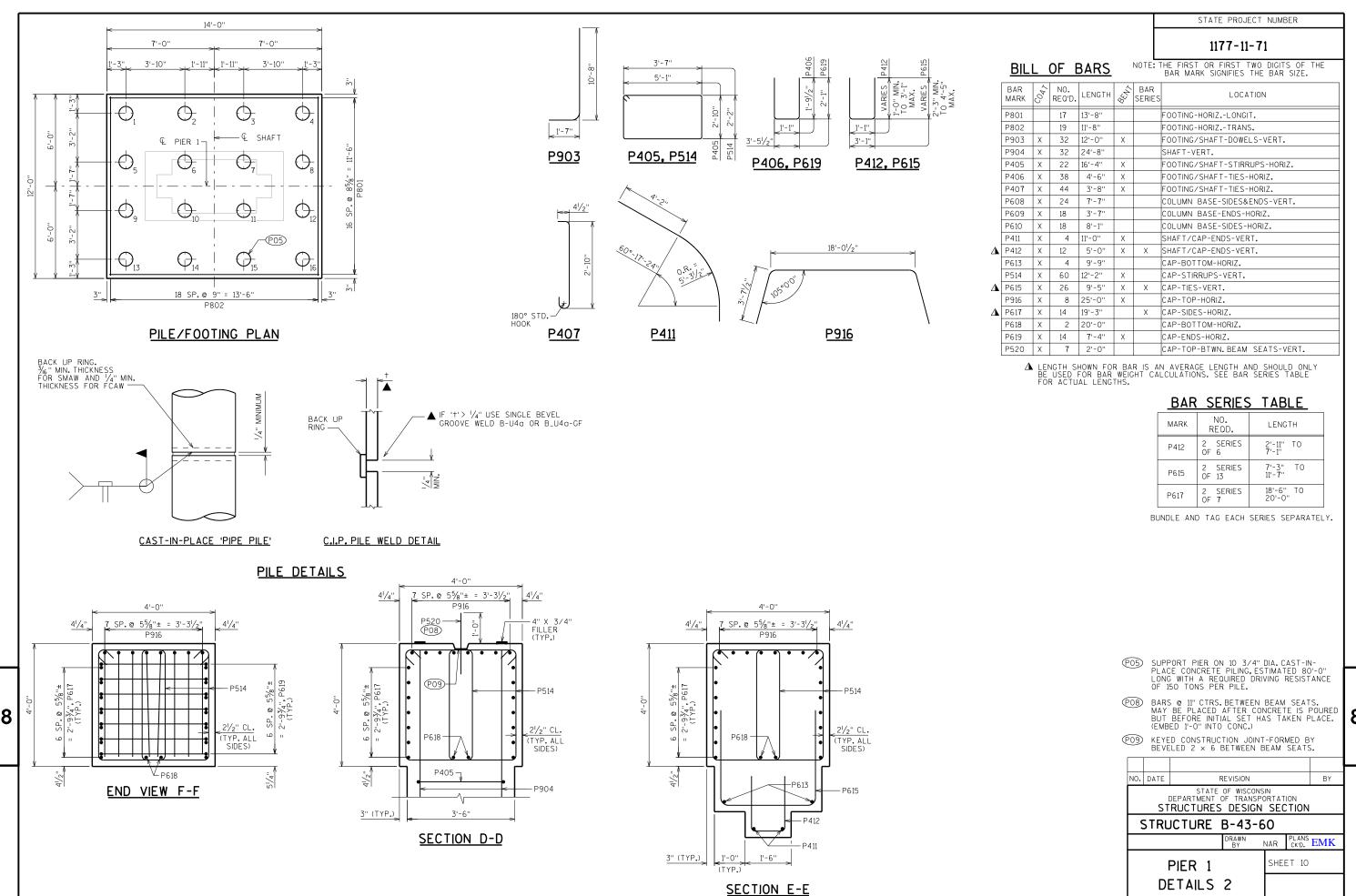




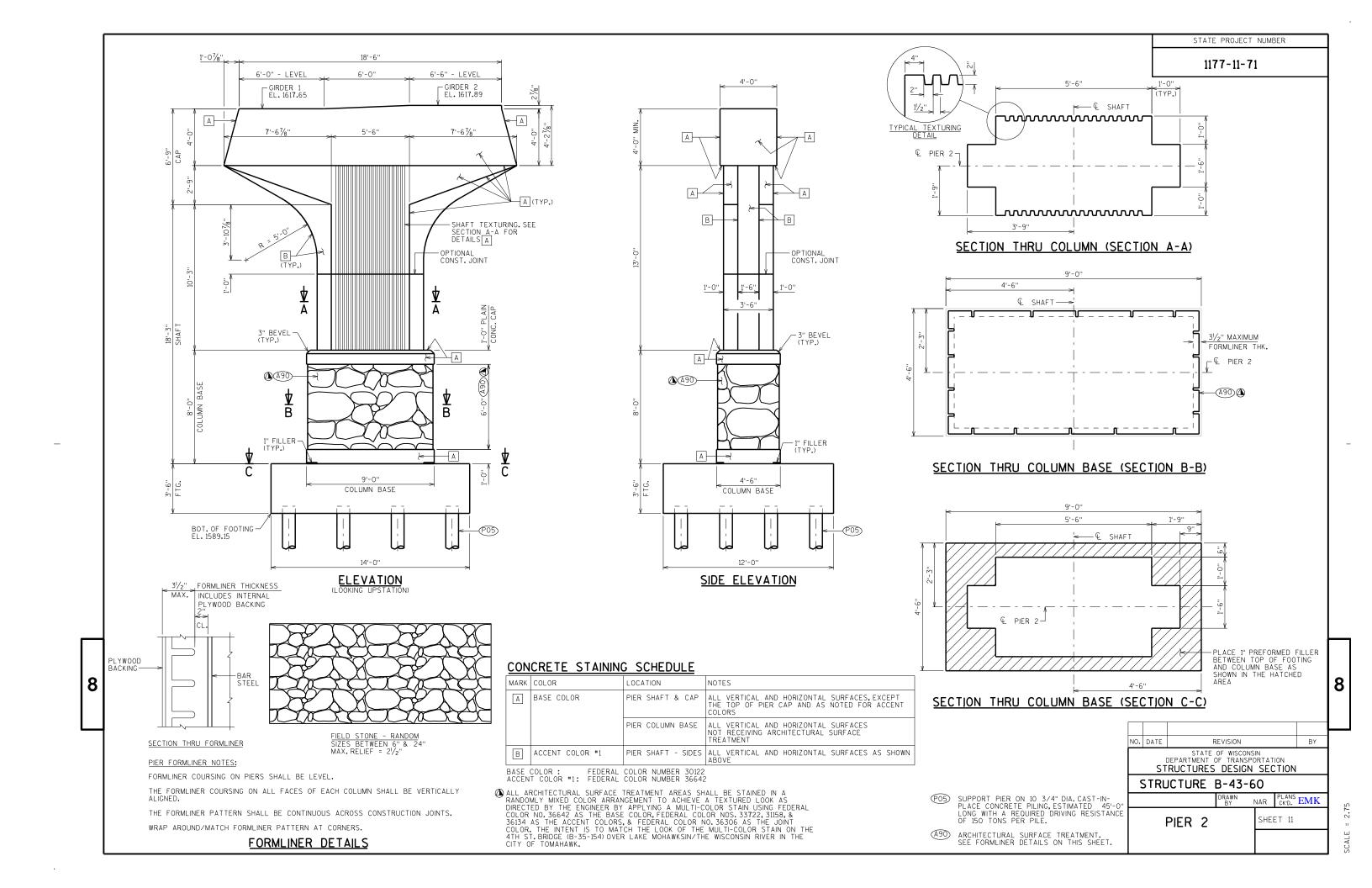


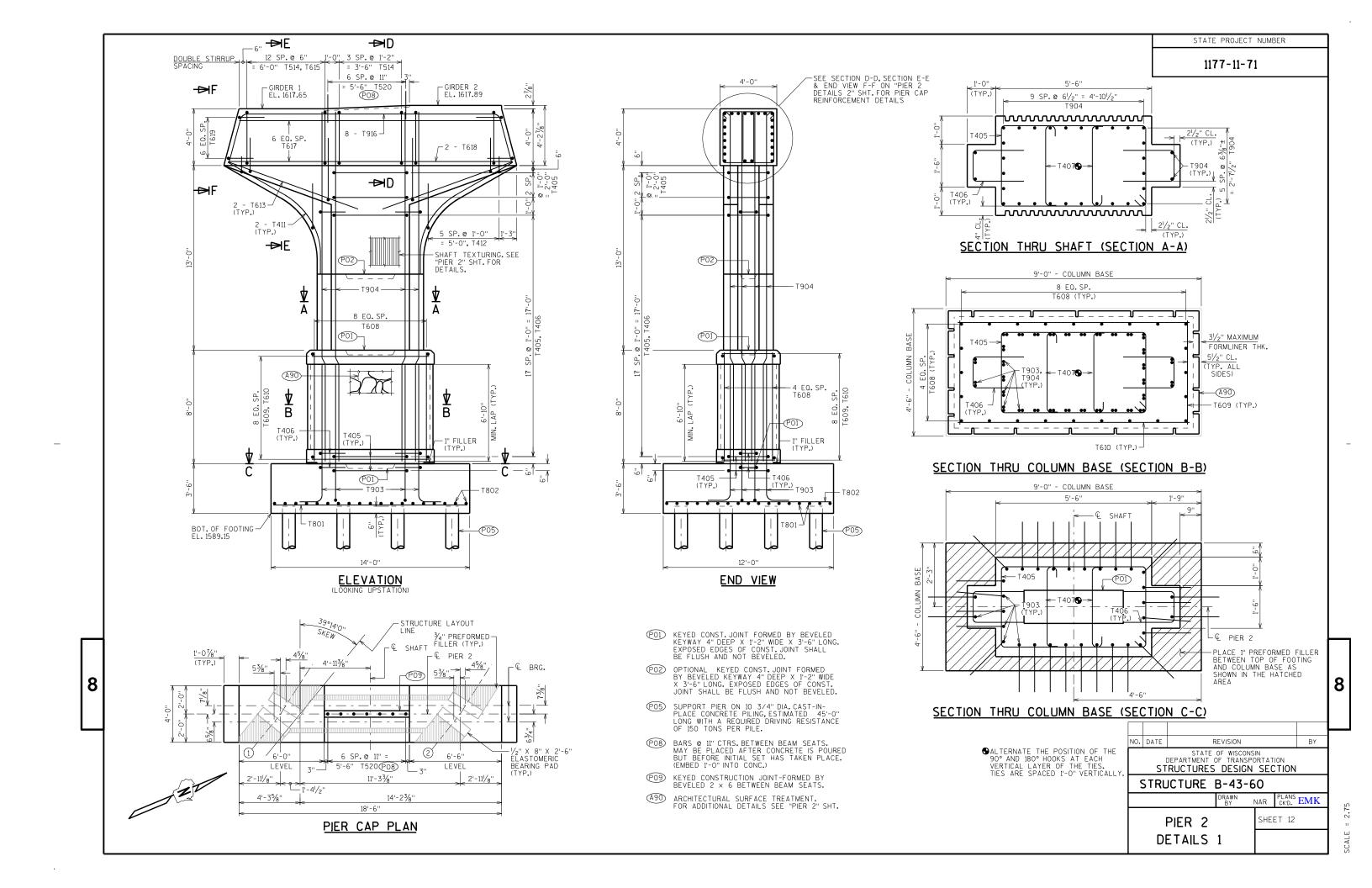


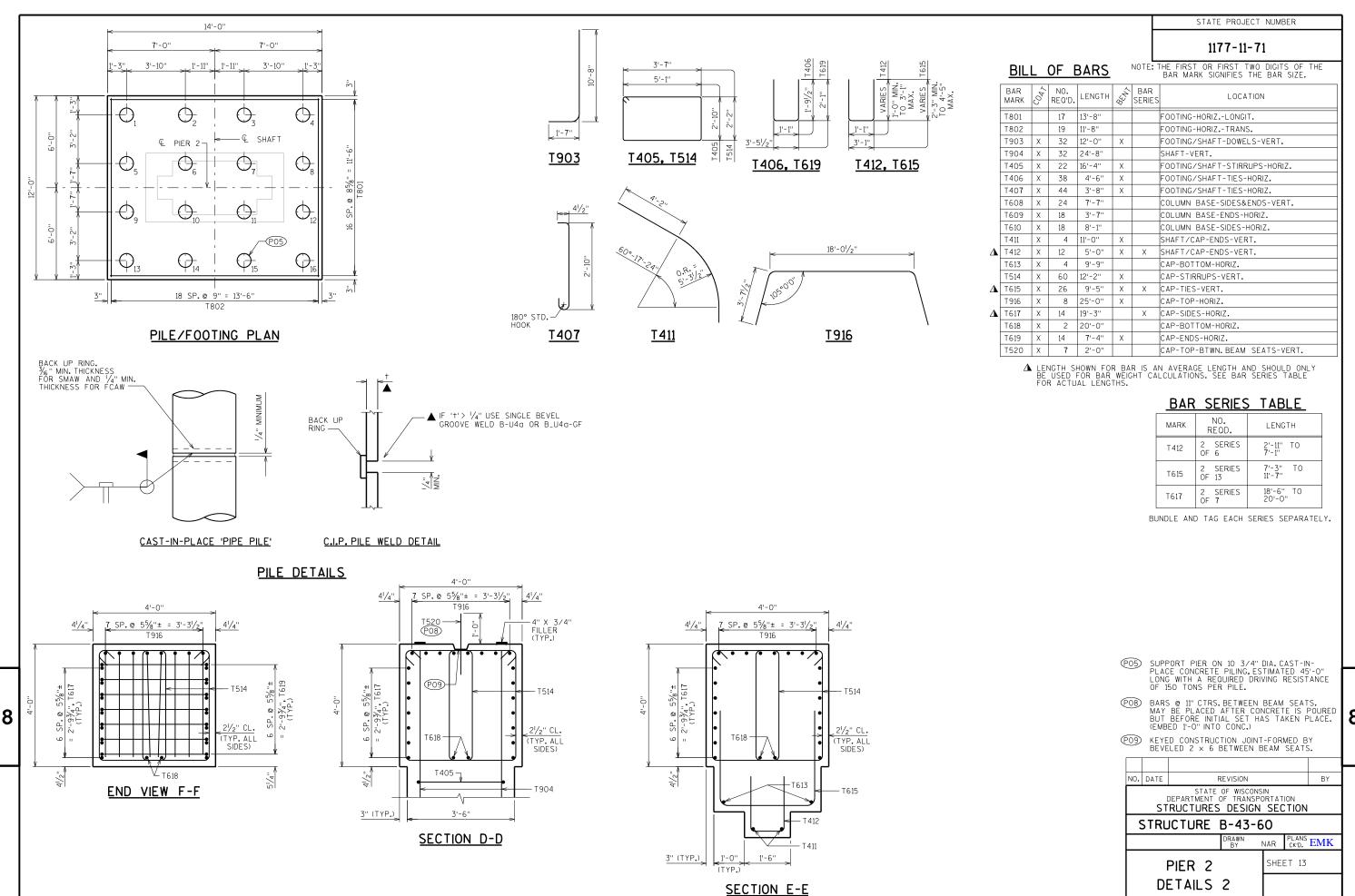




SCALE = 2.75







SCALE = 2.75



1177-11-71

NOTES

93/4" SPAN 1 - GIRDER 1

1'-13/4" SPAN 1 - GIRDER 2

1'-3" | SPAN 2 - GIRDER 1

10" SPAN 2 - GIRDER 2

9¾" SPAN 3 - GIRDER 1

2" X 1" -BEVEL

SPAN 3 - GIRDER 2

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

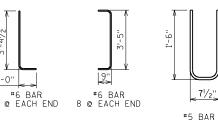
DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

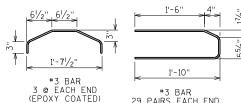
THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM 4497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF





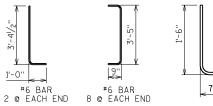
#3 BAR 29 PAIRS EACH END (EPOXY COATED)

1@ EACH END

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PICMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.



* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

34 SP. @ 1'-6" = 51'-0"

33 SP.@ 1'-6" = 49'-6"

60 SP.@ 1'-6" = 90'-0"

60 SP.@ 1'-6" = 90'-0"

24 SP.@ 1'-6" = 36'-0"

24 SP.@ 1'-6" = 36'-0"

√(IN.) <u>↓</u>

1" MIN.

CLEAR

1'-13/4''

11¾4''

45/8"

2'-6"

#4 STIRRUPS

GIRDER LENGTH = "L"

(A) DETAIL TYP. AT EACH END

SIDE VIEW & TYPICAL SECTION IN SPAN

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

(41/2"

#4 @ 5" FOR 15'-0" EACH END, #4 @ 1'-0" BETWEEN. 2'-7" LONG

1'-13/4"

113/4"

#4 BAR, EPOXY COATED. PLACE @ STIRRUP SPACING. EMBED INTO GIRDER 1'-3". —

NO BEVEL

-#4,2'-3" LONG. PLACE AT #4 STIRRUP SPACING BETWEEN LIMITS OF #3

#4 STIRRLIPS

(4¹/₂" LEG)

93/4"

1'-13/4''

93/4"

TIRRUP PAIRS

5 @ 4¹/₄" 1'-91/4''

 $A \bowtie$

BOTTOM FLANGE

L_{31/4"}

3'-2[|]/₂" 倒

11 A N

#4 STIRRUPS & #3 BARS 18 SPA. @ 5" = 7'-6" (A)

TOP FLANGE

- #5 U-SHAPED BAR-

4 PAIRS #6 STIRRUPS

AT ENDS -

EACH END-

#3 BARS

-#3 BAR

-#6 BARS 1PAIR EACH END

#6 STIRRLIPS 4 PAIRS EACH END -#3 BARS 29 PAIRS EACH END

PLACE AS SHOWN

SECTION A-A

#6 BAR 1PAIR

11/2" DIA. HOLE

ABUT. END ONLY

	GIRDER DATA																												
		GIRDER	CIBDEB	CIBDEB	CIBDEB	CIBDER	DEAD LOAD D				DAD DE	DEFL. (IN.)				CUNC. F F		"P" MID ¹ / ₃	"P" END 1/3 DIA. OF			DRAPE	D PA				UNDRAPED F	ATTERN	
SPAN	GIRDER	LENGTH	1/10	2/10	3/10	1/10	5/10	5/10	7/10	8/10	% ₁₀	f'c (p.s.i.)	OF GIRDER	OF.	OF GIRDER	STRAND	TOTAL NO.OF STRANDS	f'ci (P.S.I.) X	"A"	(II "B" MIN.	V.) "B" MAX.	"C"	TOTAL NO.OF STRANDS	f'ci (P.S.I.) X					
1	1	7 4'-0 ¹ /2"	0.2	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.2	9,000	8.0	8.0	8.0	0.6					-		16	6,800					
1	2	73'-21/2"	0.2	0.3	0.4	0.5	0.5	0.5	0.4	0.3	0.1	9,000	8.0	8.0	8.0	0.6						_	16	6,800					
2	1	113'-11''	1.0	1.8	2.5	3.0	3.1	3.0	2.5	1.8	1.0	9,000	8.0	8.0	8.0	0.6	38	6,800	40	13.75	16.75	5							
2	2	113'-1"	1.0	1.9	2.6	3.1	3.2	3.1	2.6	1.9	1.0	9,000	8.0	8.0	8.0	0.6	38	6,800	40	13.75	16.75	5							
3	1	59'-01/2"	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	9,000	8.0	8.0	8.0	0.6							16	6,800					
3	2	58'-9"	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	9,000	8.0	8.0	8.0	0.6		<u> </u>					16	6,800					

NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-43-60 NAR CK'D. EMK 45W" PRESTRESSED SHEET 14 GIRDER DETAILS 1

1177-11-71

(1¹/₄" MIN.)

- DECK THICKNESS



ALL PATTERNS ARE SYM. ABOUT & GIRDER —

TOTAL NO. OF STRANDS

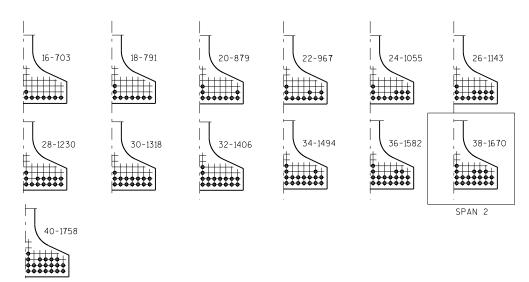
00 - 000

TOTAL INITIAL -PRESTRESS

FORCE IN KIPS

STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

O.6"¢ STRANDS



TYP. STRAND PATTERN

13 SPA.@ 2"

-FOR DRAPED PATTERN ONLY. DRAPE ALL STRANDS ON THESE TWO LINES

DECK HAUNCH DETAIL

IF $1^{\prime}\!\!/_4$ " MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR,

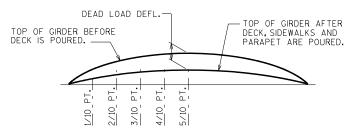
** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S, AT $\widehat{\mathbb{Q}}$ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TIE BAR-

- TOP OF DECK ELEV. AT FINAL GRADE
 TOP OF GIRDER ELEVATION
 + DEAD LOAD DEFLECTION
- DECK THICKNESS
- = HAUNCH HEIGHT 'T'

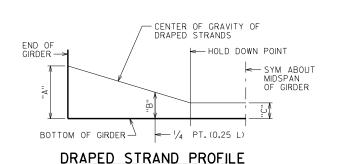
NOTE: AN AVERAGE HAUNCH ('T') OF 3.5" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM

ARRANGEMENT AT & SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"¢ STRANDS



8

16-703

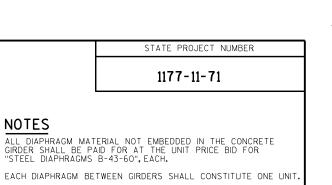
*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER	(IN.) :				
1	0.9	1				
2	4.34					
3	0.7	4				

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-43-60 NAR CK'D. EMK 45W" PRESTRESSED GIRDER DETAILS 2

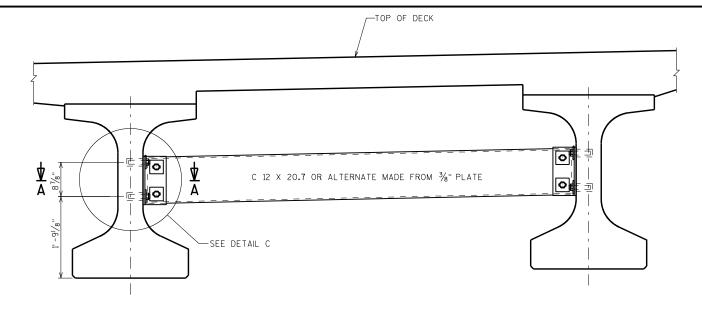


NOTES

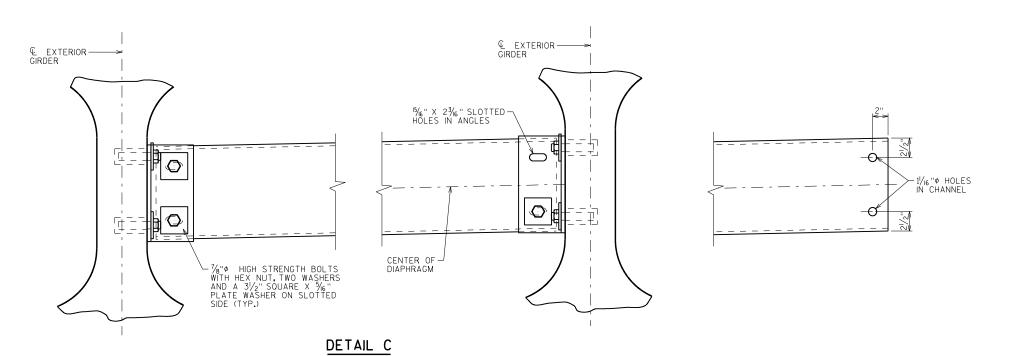
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-43-60", EACH.

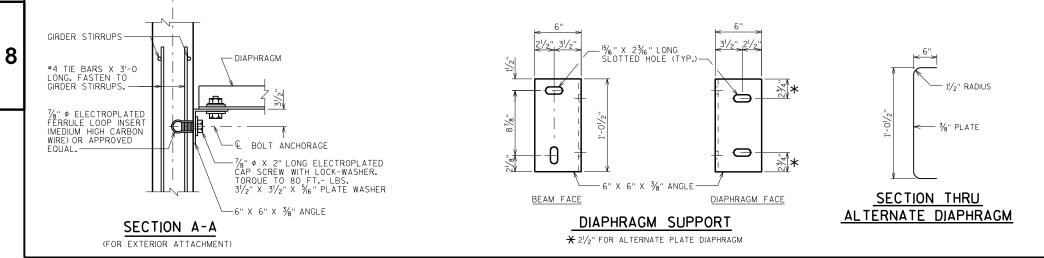
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

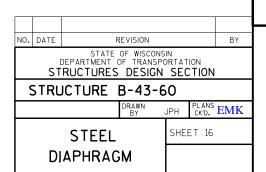
ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.

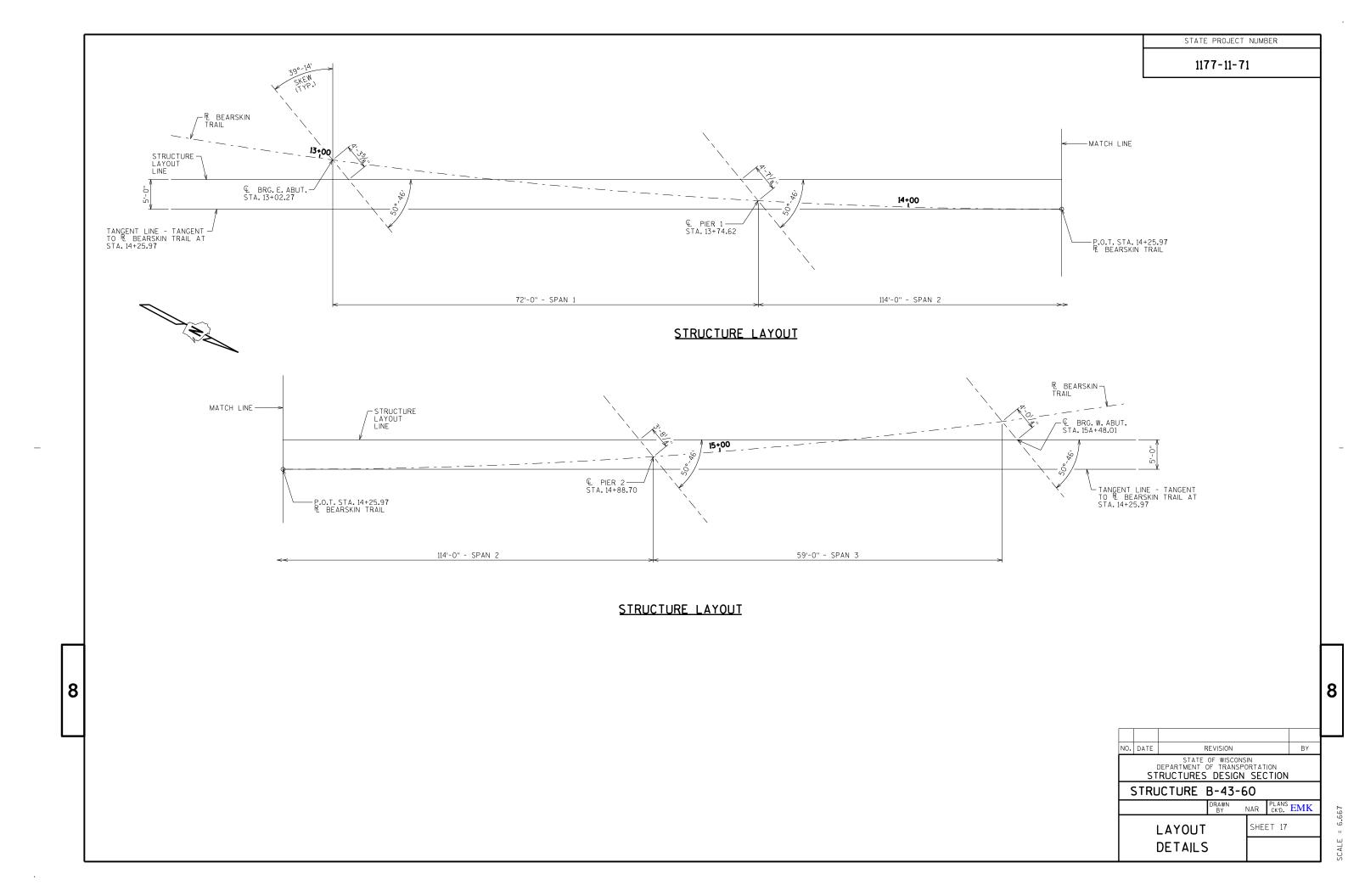


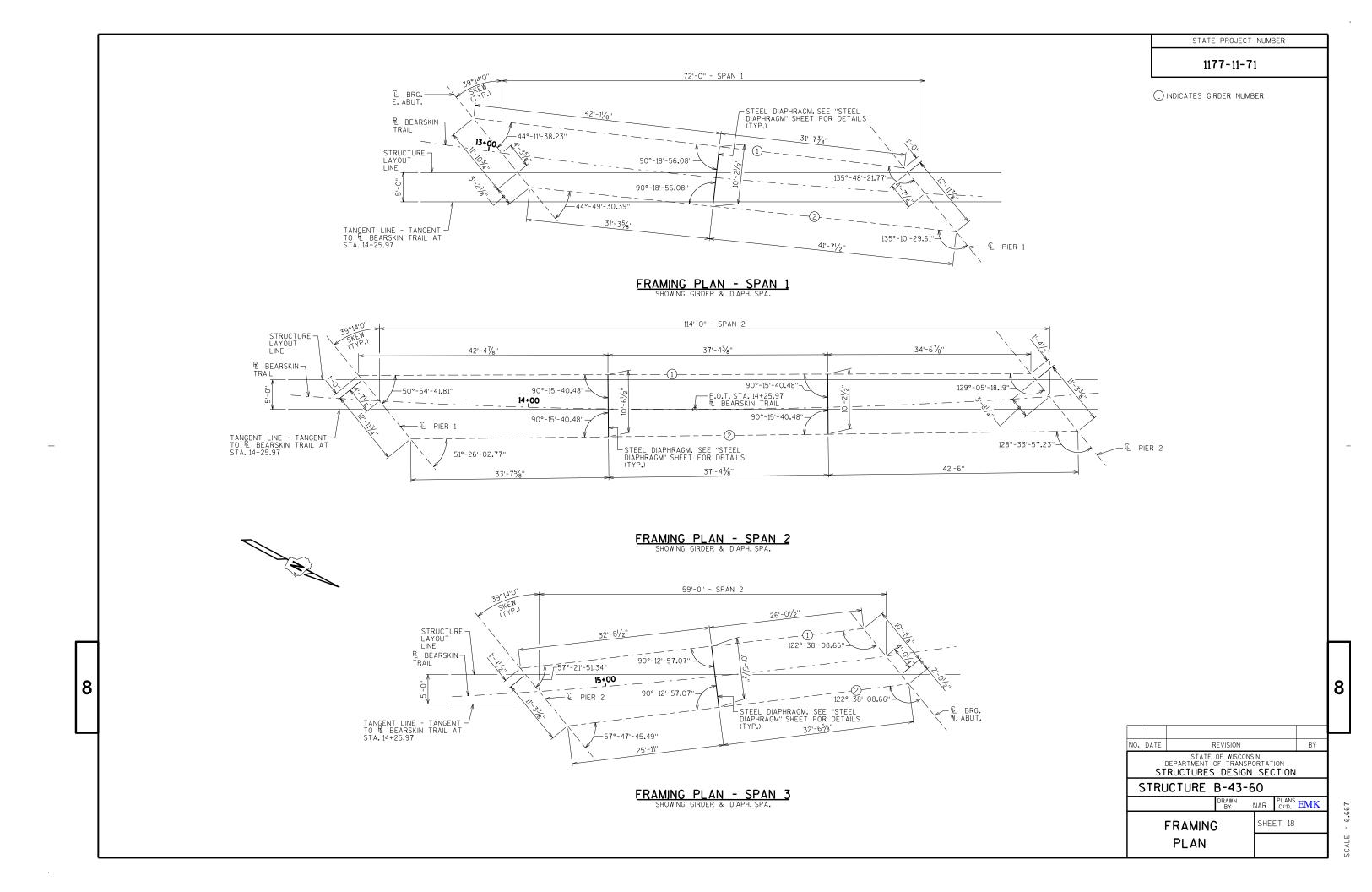
PART TRANSVERSE SECTION AT DIAPHRAGM

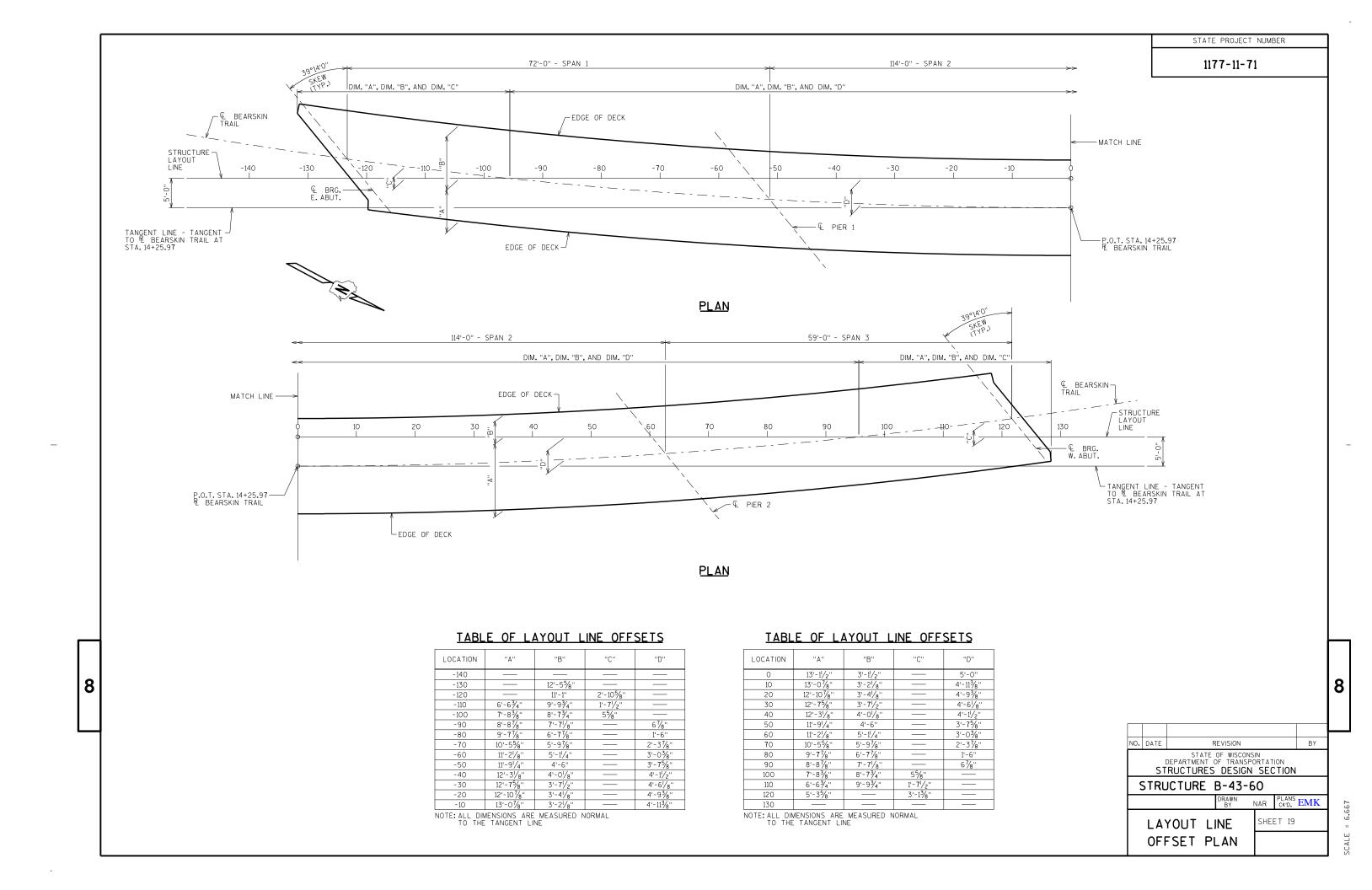


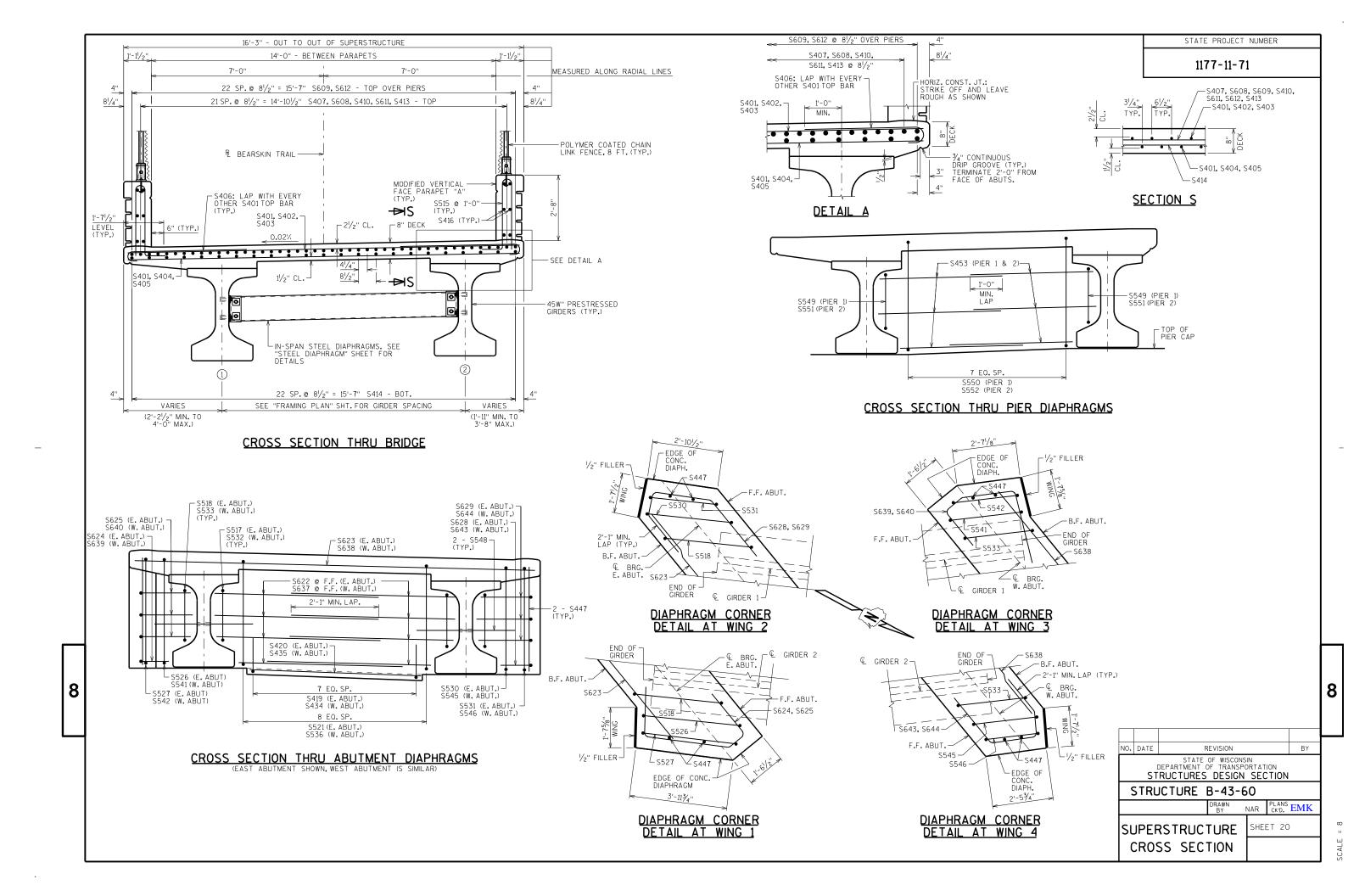


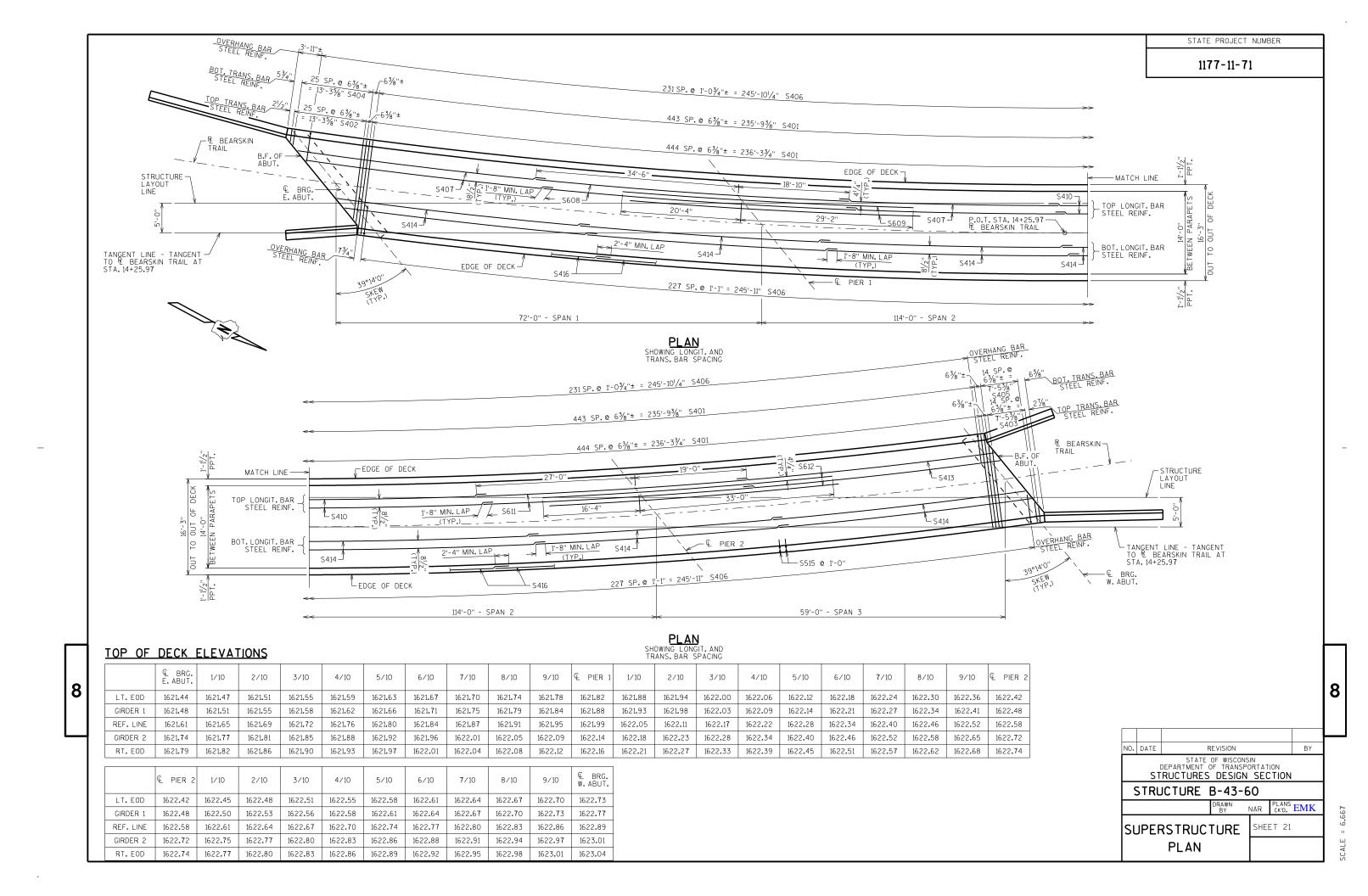


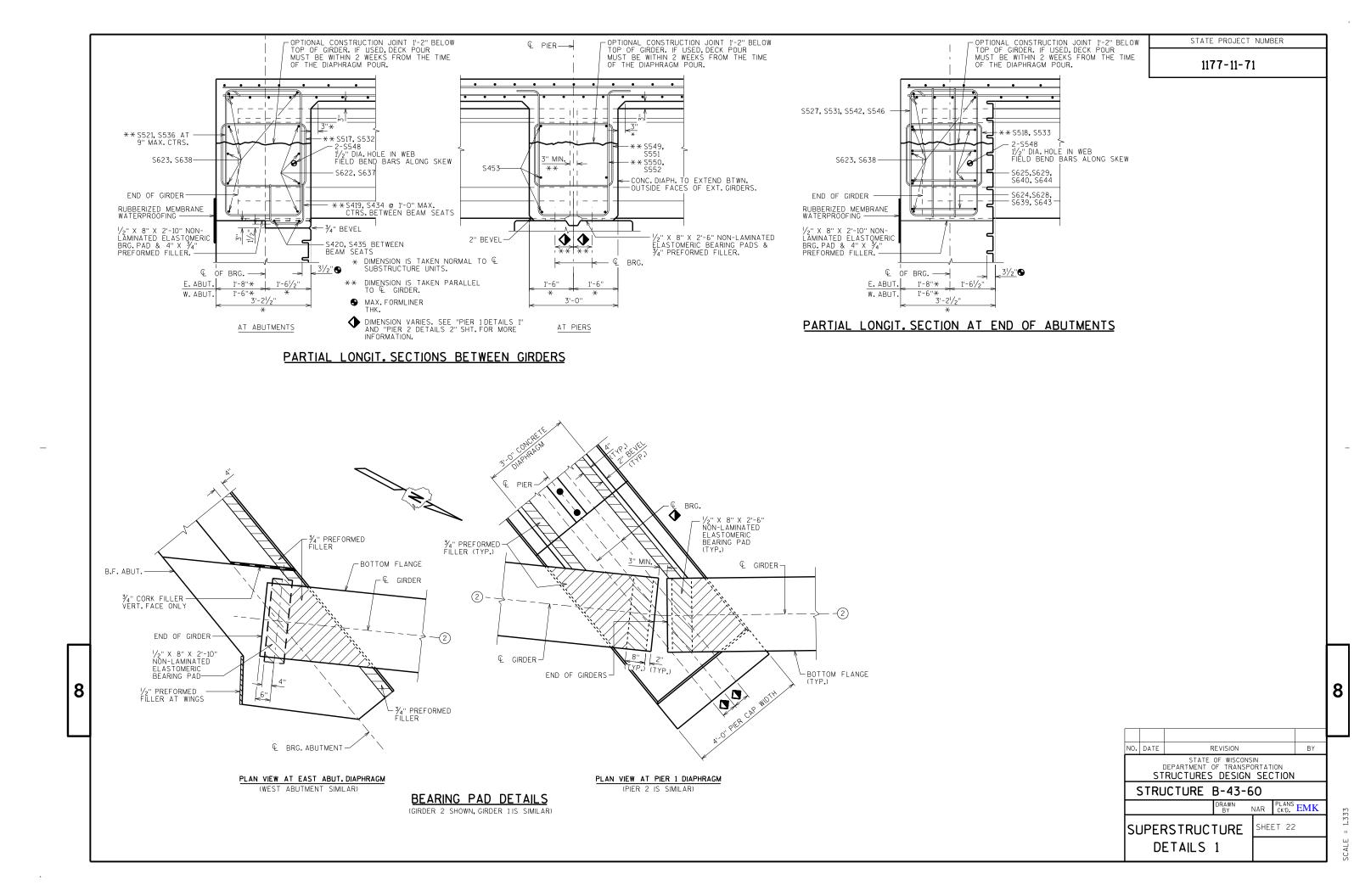


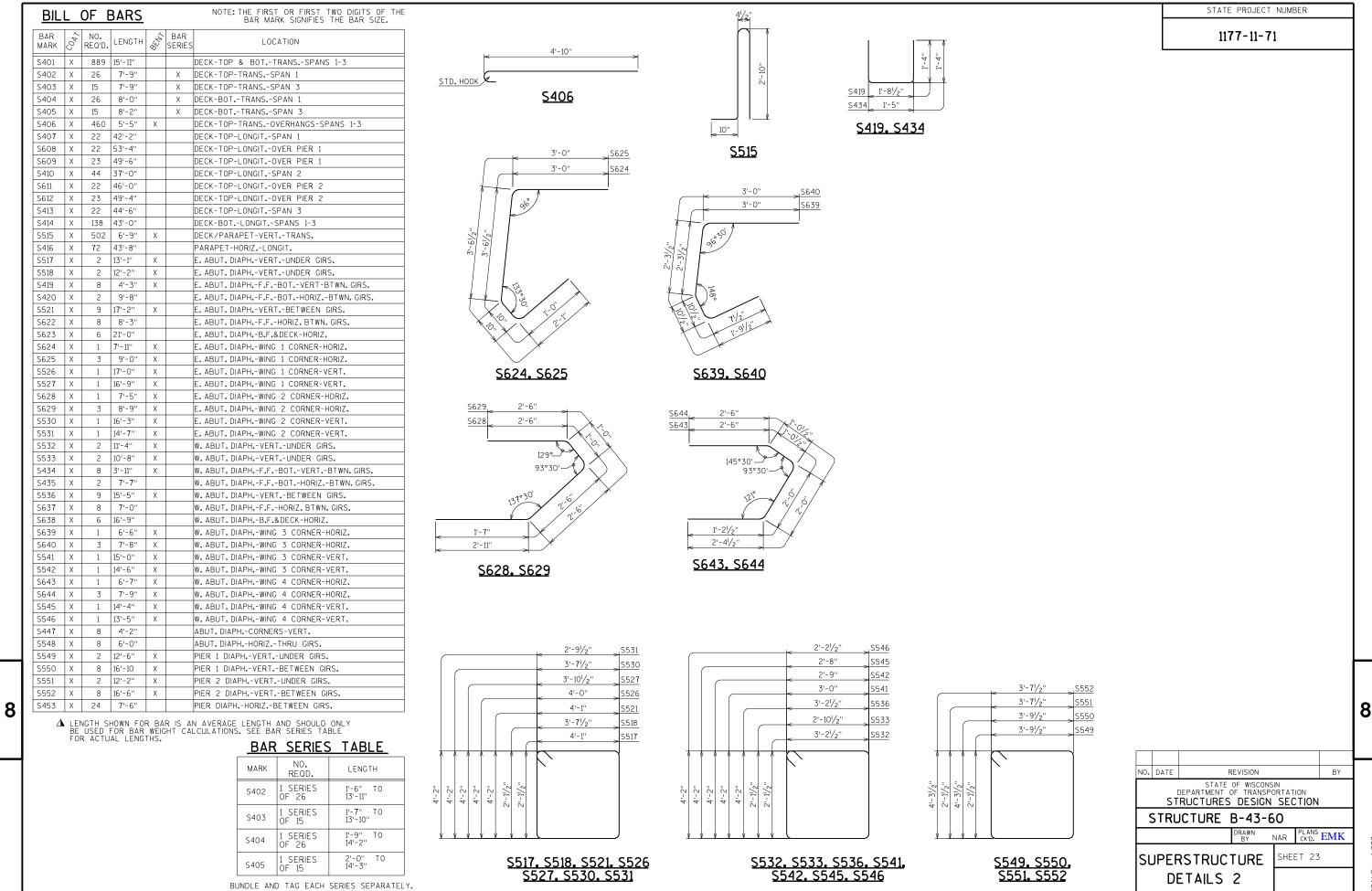




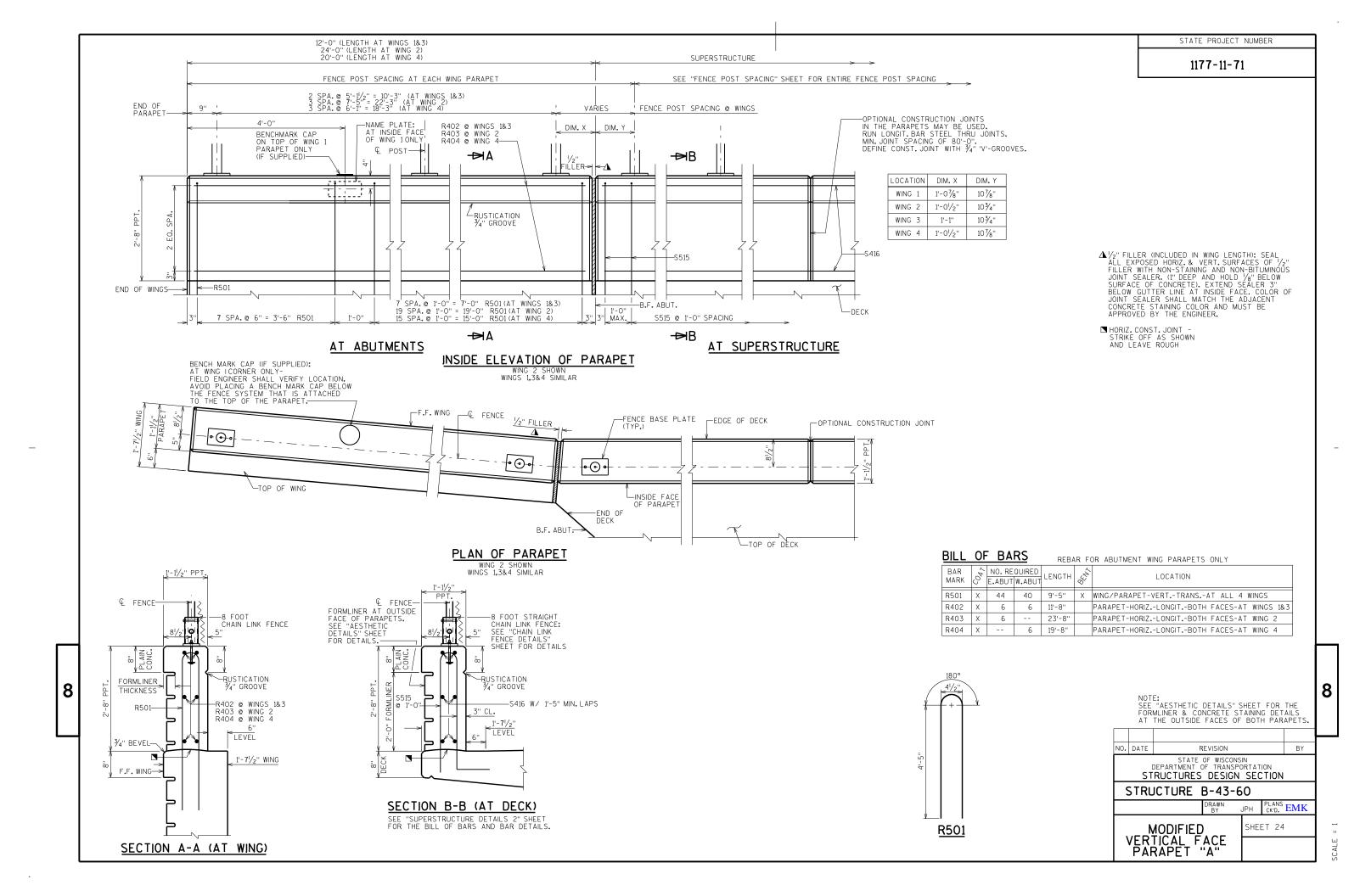


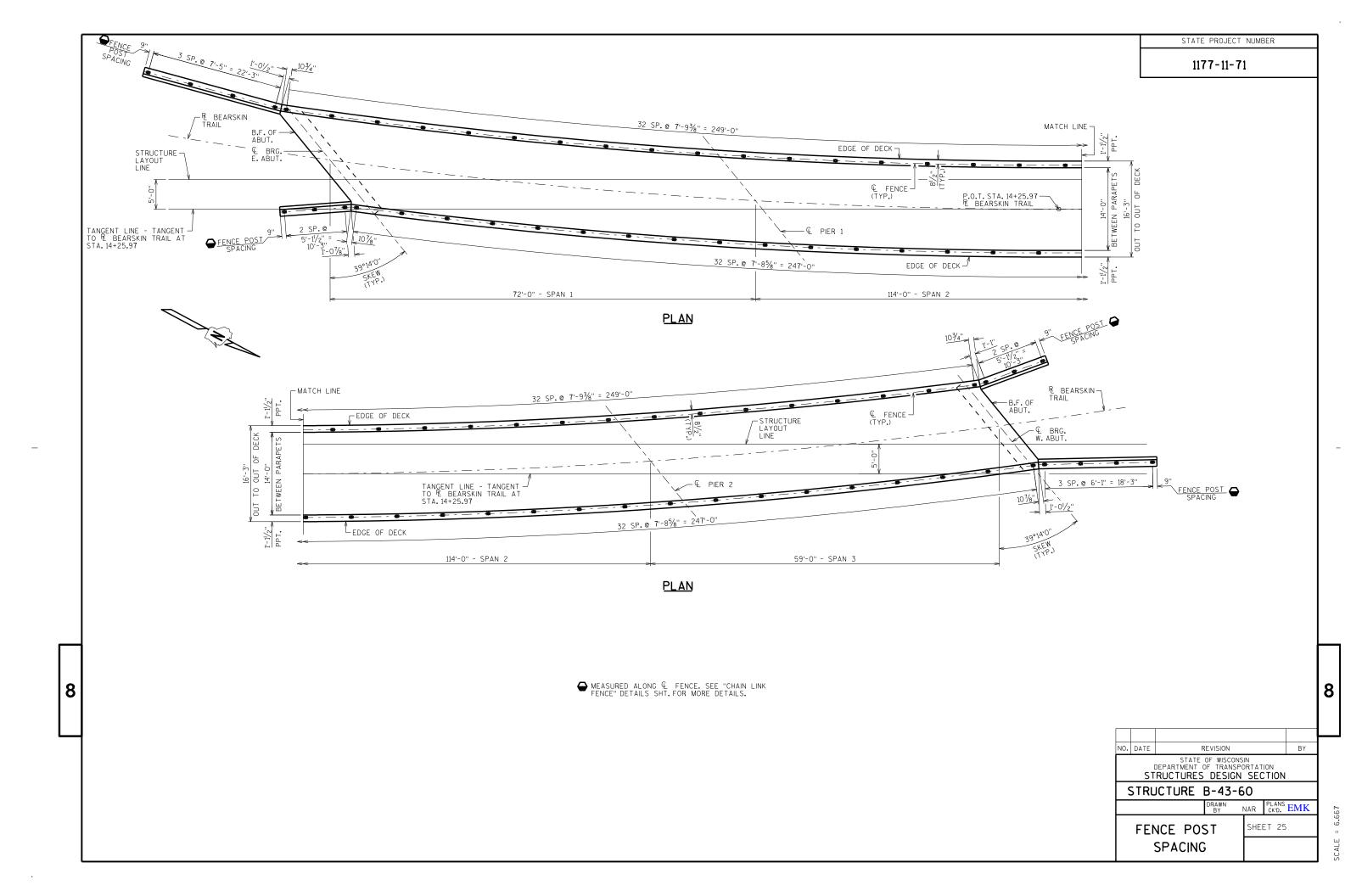


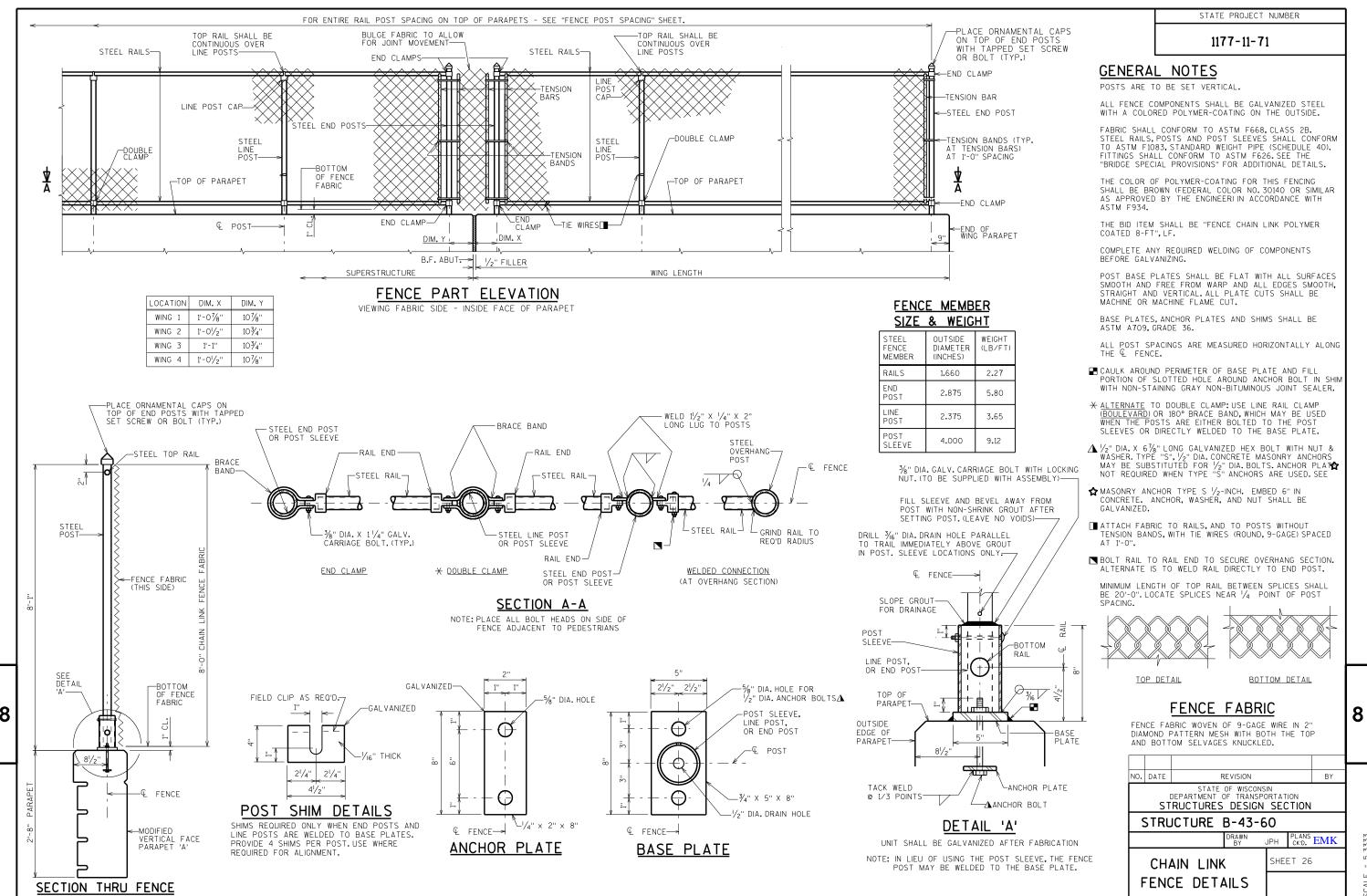


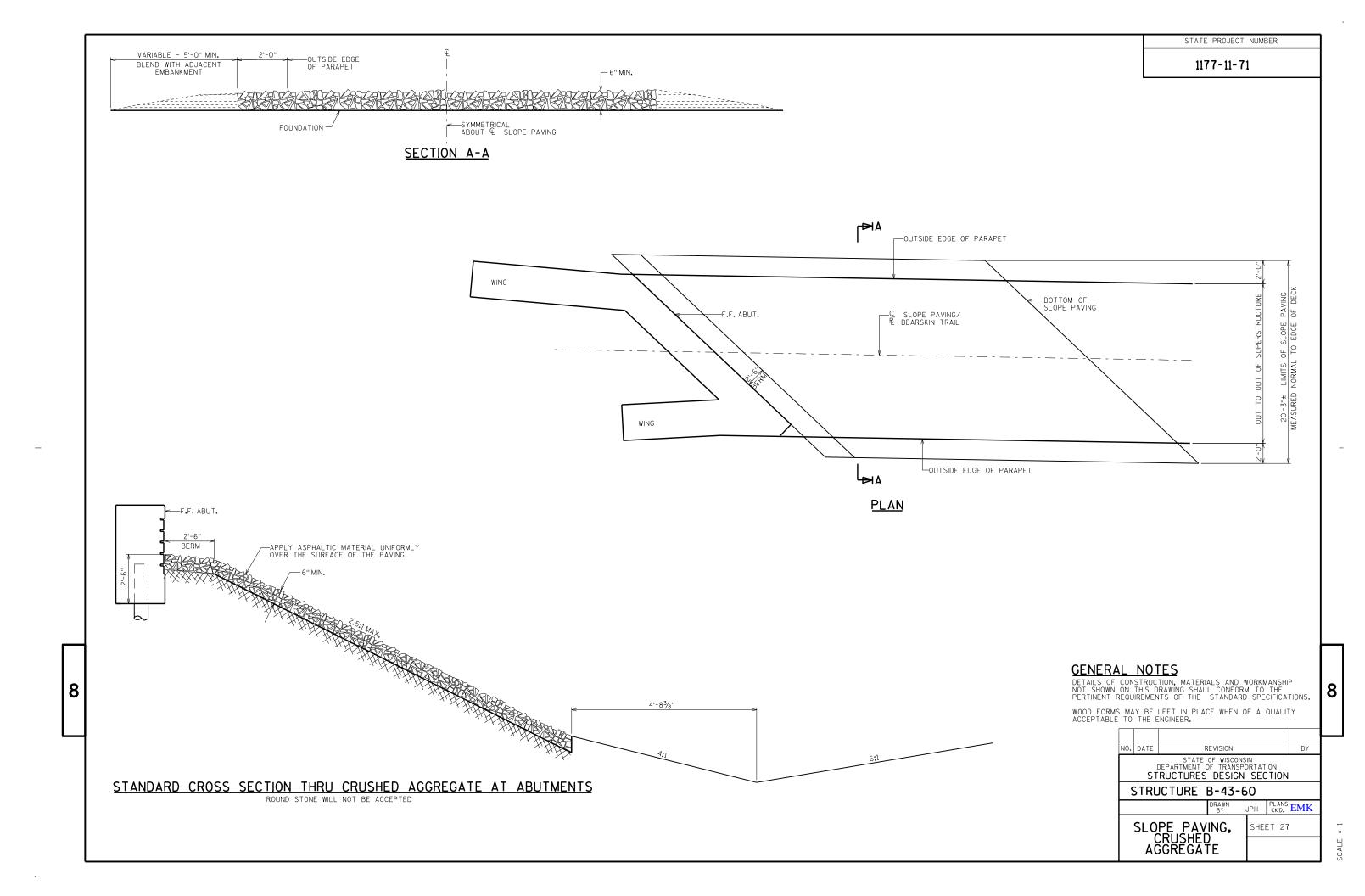


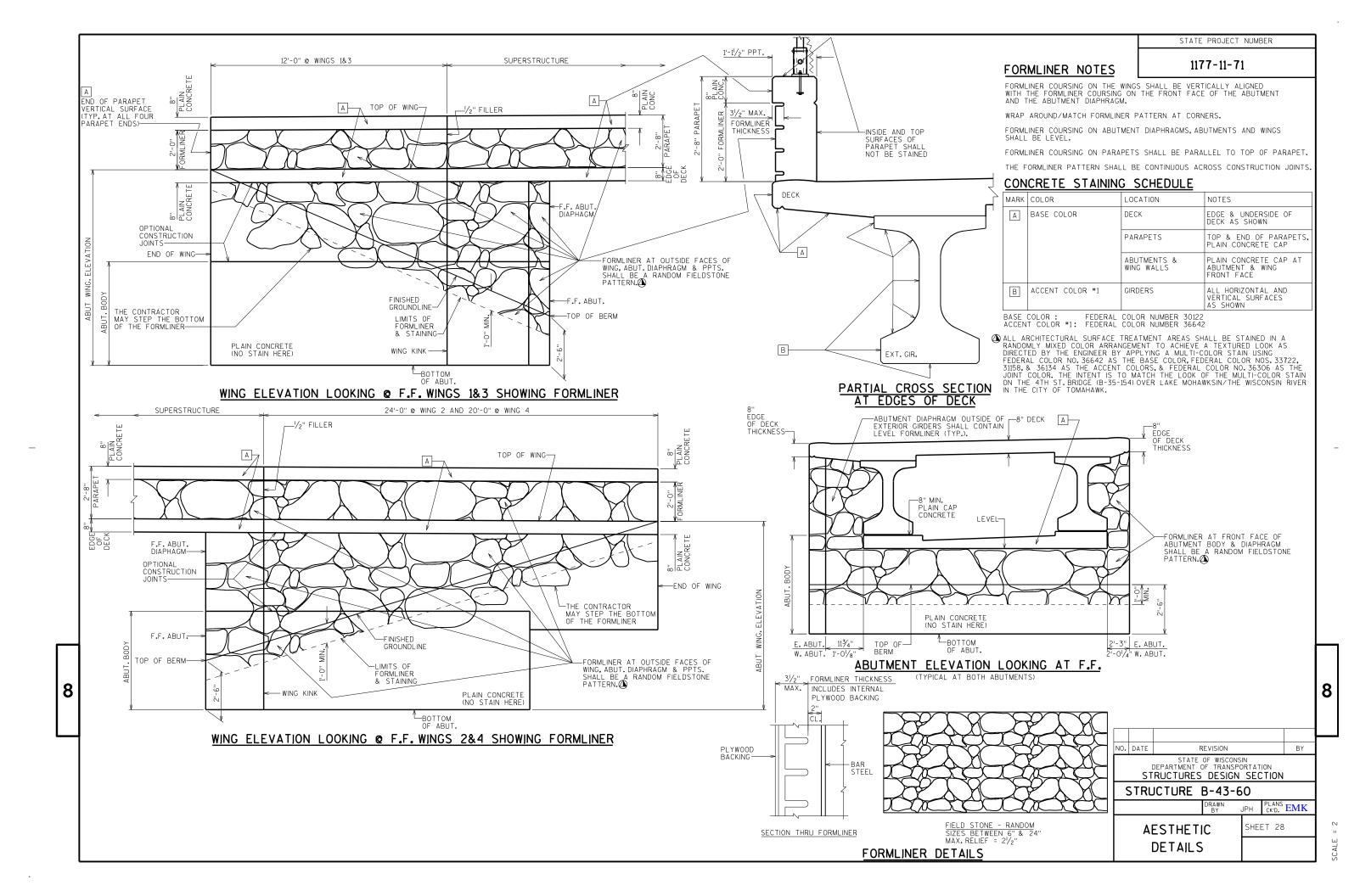
SCALE = 1.











BEARSKIN TEMPORARY TRAIL STAGE "A"

			AREA (SF) Increme	ntal Vol (CY) (U	nadjusted)	Cumulative Vol (CY	')	
STATION	Real Station	Distance	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill	Mass Ordinate
					Note 1	Note 3	Note 1		Note 8
00+00	0.00	0.00	0.42	0.00	0	0	0	0	0.00
00+50	50.00	50.00	0.00	4.32	0	4	0	5	-4.41
01+00	100.00	50.00	0.00	27.90	0	30	0	41	-40.20
01+50	150.00	50.00	0.00	200.94	0	212	0	295	-294.48
02+00	200.00	50.00	0.15	343.96	0	505	1	900	-899.78
02+50	250.00	50.00	0.01	370.67	0	662	1	1,694	-1,693.66
02+93.46	293.46	43.46	0.01	0.23	0	299	1	2,053	-2,051.88

BEARSKIN TRAIL STAGE "B"

			AREA (SF)	Increme	ntal Vol (CY) (Un	adjusted)	Cumulative Vol (C	Y)	
								•	
	Real Station		Cut	Fill	Cut	Fill	Cut	Expanded Fill	Mass Ordinate
STATION		Distance					1.00	1.20	
					Note 1	Note 3	Note 1		Note 8
07+50	750.00	0.00	0.00	0.00	0	_ 0	0	_ 0	0.00
08+00	800.00	50.00	3.35	0.00	3	0	3	0	3.10
08+50	850.00	50.00	2.89	0.00	6	0	9	0	8.88
09+00	900.00	50.00	0.00	3.61	3	3	12	4	7.54
09+00	900.00	0.00	0.00	3.61	0	0	12	4	7.54
09+50	950.00	50.00	0.00	27.52	0	29	12	39	-27.04
10+00	1000.00	50.00	0.00	159.85	0	173	12	247	-235.24
10+50	1050.00	50.00	0.00	465.30	0	579	12	941	-929.85
10 + 94.42	1094.42	44.42	0.00	636.69	0	907	12	2,029	-2,017.72
11+00	1100.00	5.58	0.00	657.39	0	134	12	2,190	-2,178.10
11+50	1150.00	50.00	0.00	829.36	0	1,377	12	3,842	-3,830.04
12+00	1200.00	50.00	0.00	649.71	0	1,370	12	5,485	-5,473.45
12+50	1250.00	50.00	0.00	472.46	0	1,039	12	6,732	-6,720.31
13+00	1300.00	50.00	0.00	252.91	0	672	12	7,538	-7,526.28
13+50	1350.00	50.00	0.00	0.00	0	234	12	7,819	-7,807.28
14+00	1400.00	50.00	0.00	0.00	0	0	12	7,819	-7,807.28
14+50	1450.00	50.00	0.00	0.00	0	0	12	7,819	-7,807.28
15+00	1500.00	50.00	0.00	0.00	0	0	12	7,819	-7,807.28
15+50	1550.00	50.00	0.00	141.58	0	131	12	7,976	-7,964.60
16+00	1600.00	50.00	0.00	123.53	0	245	12	8,271	-8,259.16
16+50	1650.00	50.00	0.00	297.66	0	390	12	8,739	-8,727.15
16+68.75	1668.75	18.75	0.00	369.23	0	232	12	9,017	-9,004.97
17+00	1700.00	31.25	0.00	308.41	0	392	12	9,487	-9,475.60
17+50	1750.00	50.00	0.00	62.30	0	343	12	9,899	-9,887.51
18+00	1800.00	50.00	0.00	21.30	0	77	12	9,992	-9,980.40
18 + 49.54	1849.54	49.54	0.00	11.42	0	30	12	10,028	-10,016.43
18+50	1850.00	0.46	0.00	11.33	0	0	12	10,028	-10,016.66
19+00	1900.00	50.00	0.00	2.45	0	13	12	10,044	-10,031.97
19+50	1950.00	50.00	17.60	0.00	16	2	28	10,046	-10,018.39
19+80.44	1980.44	30.44	17.32	0.00	20	0	48	10,046	-9,998.70
20+00	2000.00	19.56	0.00	0.00	6	0	54	10,046	-9,992.43

9

PROJECT NO:1177-11-71 HWY:USH 51 COUNTY:ONEIDA CROSS SECTIONS: EARTHWORK DETAILS SHEET E

BEARSKIN TRAIL STAGE "C"

			ARFA (SF		ntal Vol (CY) (Un		Cumulative Vol (CY	1	
			AREA (SI	, znerenie		ia aj ustea /	Camalative voi (C)	,	
	Real Station		Cut	Fill	Cut	Fill	Cut	Expanded Fill	Mass Ordinate
STATION		Distance					1.00	1.20	
					Note 1	Note 3	Note 1		Note 8
07+50	750.00	0.00	0.00	0.00	0	0	0	0	0.00
08+00	800.00	50.00	7.36	0.00	7	0	7	0	6.82
08+50	850.00	50.00	3.04	0.00	10	0	16	0	16.45
09+00	900.00	50.00	0.02	8.59	3	8	19	10	9.73
09+00	900.00	0.00	0.02	8.60	0	0	19	10	9.73
09+50	950.00	50.00	0.17	19.68	0	26	19	41	-21.51
10+00	1000.00	50.00	0.22	63.93	0	77	20	134	-114.06
10+50	1050.00	50.00	0.13	106.20	0	158	20	323	-302.77
10 + 94.42	1094.42	44.42	0.20	147.81	0	209	20	574	-553.24
11+00	1100.00	5.58	0.24	147.88	0	31	20	610	-589.84
11+50	1150.00	50.00	0.26	62.60	0	195	21	844	-823.25
12+00	1200.00	50.00	0.26	77.3 1	0	130	21	1,000	-978.22
12+50	1250.00	50.00	0.26	79.30	0	145	22	1,174	-1,151.74
13+00	1300.00	50.00	0.22	32.34	0	103	22	1,298	-1,275.34
13+50	1350.00	50.00	0.00	0.00	0	30	23	1,334	-1,311.07
14+00	1400.00	50.00	0.00	0.00	0	0	23	1,334	-1,311.07
14+50	1450.00	50.00	0.00	0.00	0	0	23	1,334	-1,311.07
15+00	1500.00	50.00	0.00	0.00	0	0	23	1,334	-1,311.07
1 5+50	1550.00	50.00	0.22	32.03	0	30	23	1,369	-1,346.45
16+00	1600.00	50.00	0.26	62.17	0	87	23	1,474	-1,450.67
16+50	1650.00	50.00	0.26	66.97	0	120	24	1,617	-1,593.68
16 + 68.75	1668.75	18.75	0.26	63.63	0	45	24	1,672	-1,647.90
17+00	1700.00	31.25	0.26	57.76	0	70	24	1,756	-1,731.91
17+50	1750.00	50.00	0.26	45.52	0	96	25	1,871	-1,846.19
18+00	1800.00	50.00	0.26	28.73	0	69	25	1,953	-1,928.20
18 + 49.54	1849.54	49.54	0.26	20.95	0	46	26	2,008	-1,982.41
18+50	1850.00	0.46	0.26	20.82	0	0	26	2,008	-1,982.83
19+00	1900.00	50.00	0.35	5.43	1	_ 24	26	2,038	-2,011.44
19+50	1950.00	50.00	28.40	0.00	27	5	53	2,044	-1,990.85
19+80.44	1980.44	30.44	13.30	0.00	24	0	76	2,044	-1,967.34
20+00	2000.00	19.56	0.00	0.00	5	0	81	2,044	-1,962.53

9

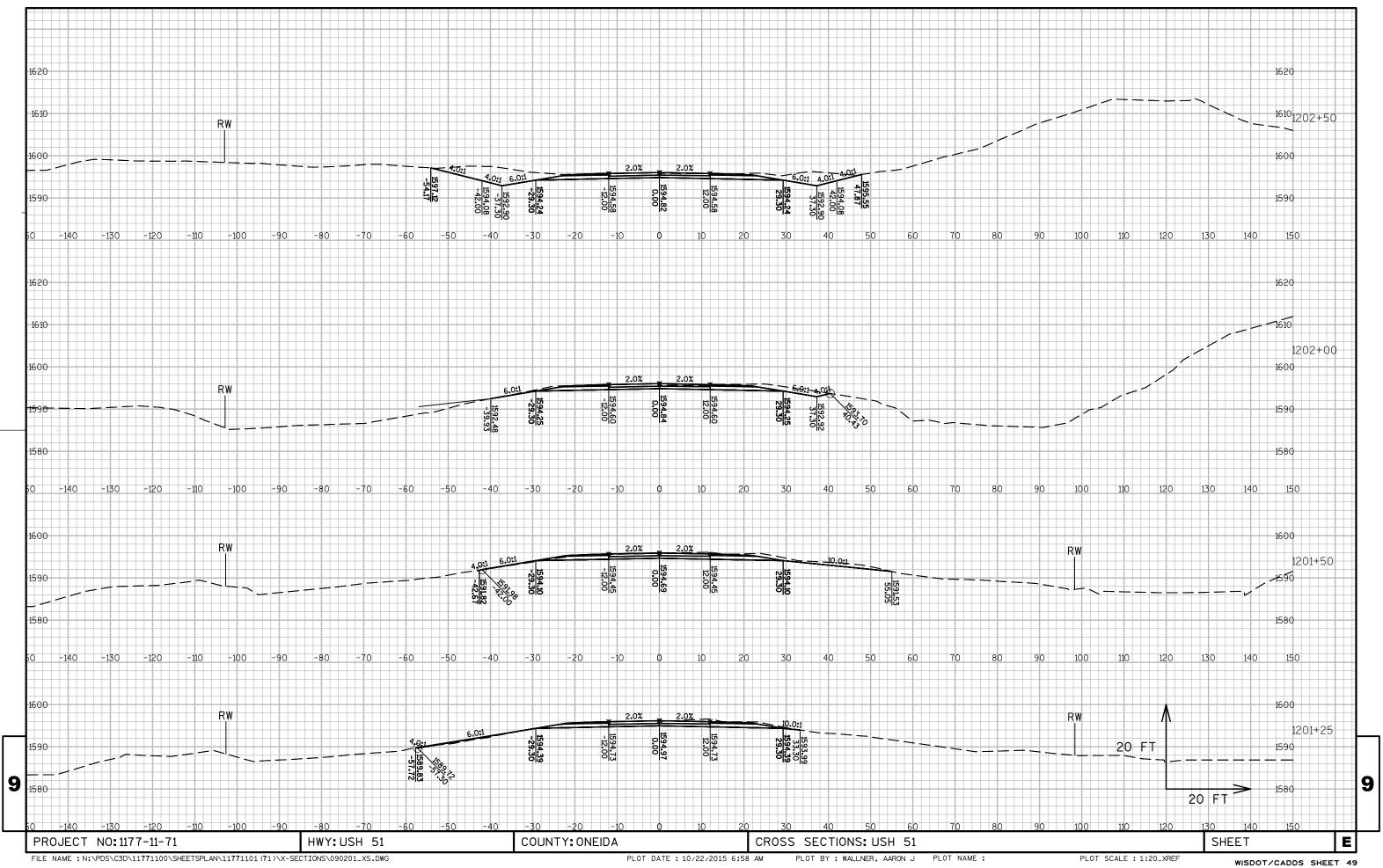
PROJECT NO:1177-11-71 HWY:USH 51 COUNTY:ONEIDA CROSS SECTIONS: EARTHWORK DETAILS SHEET **E**

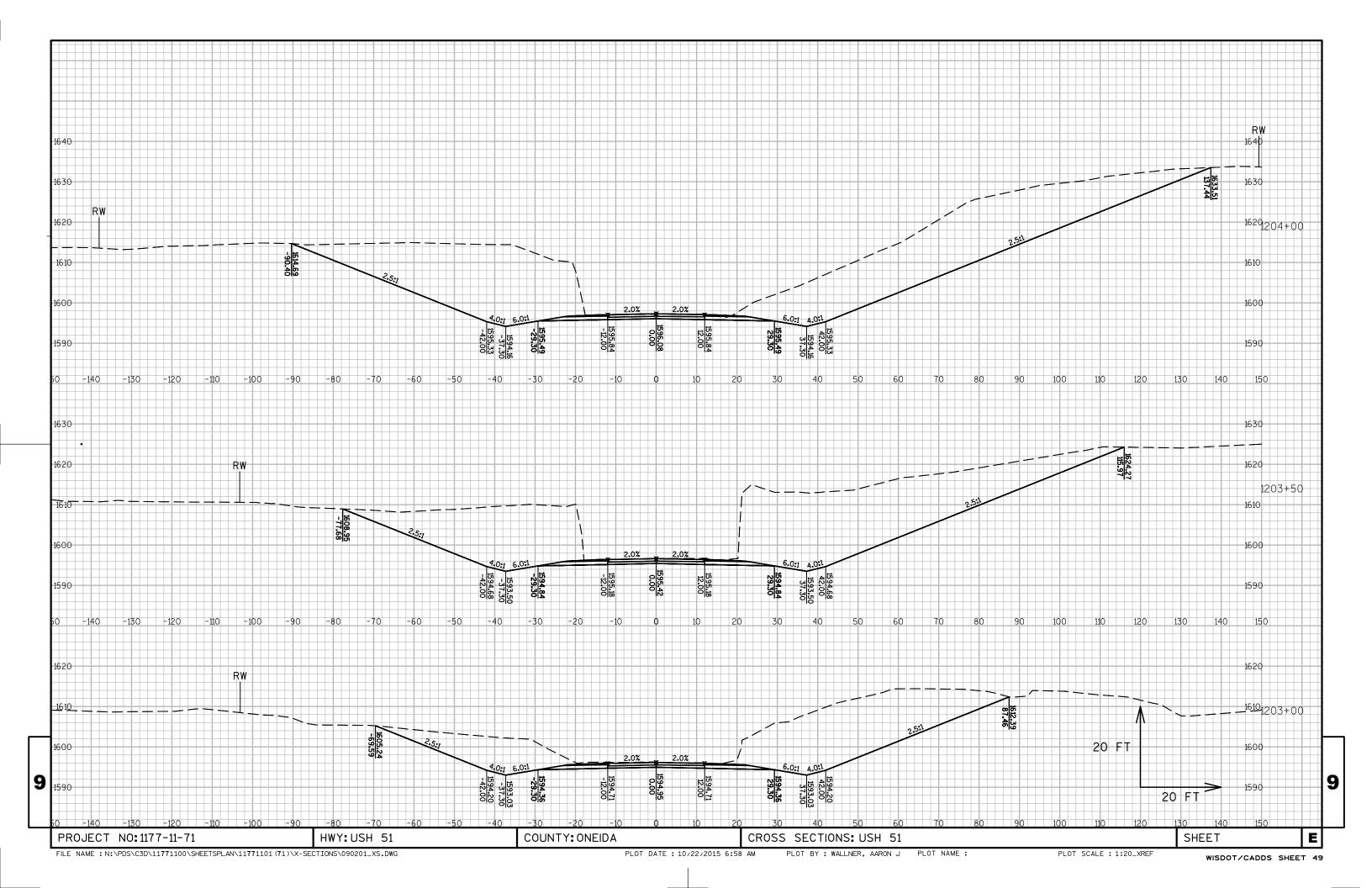
USH 51 DITCH GRADING

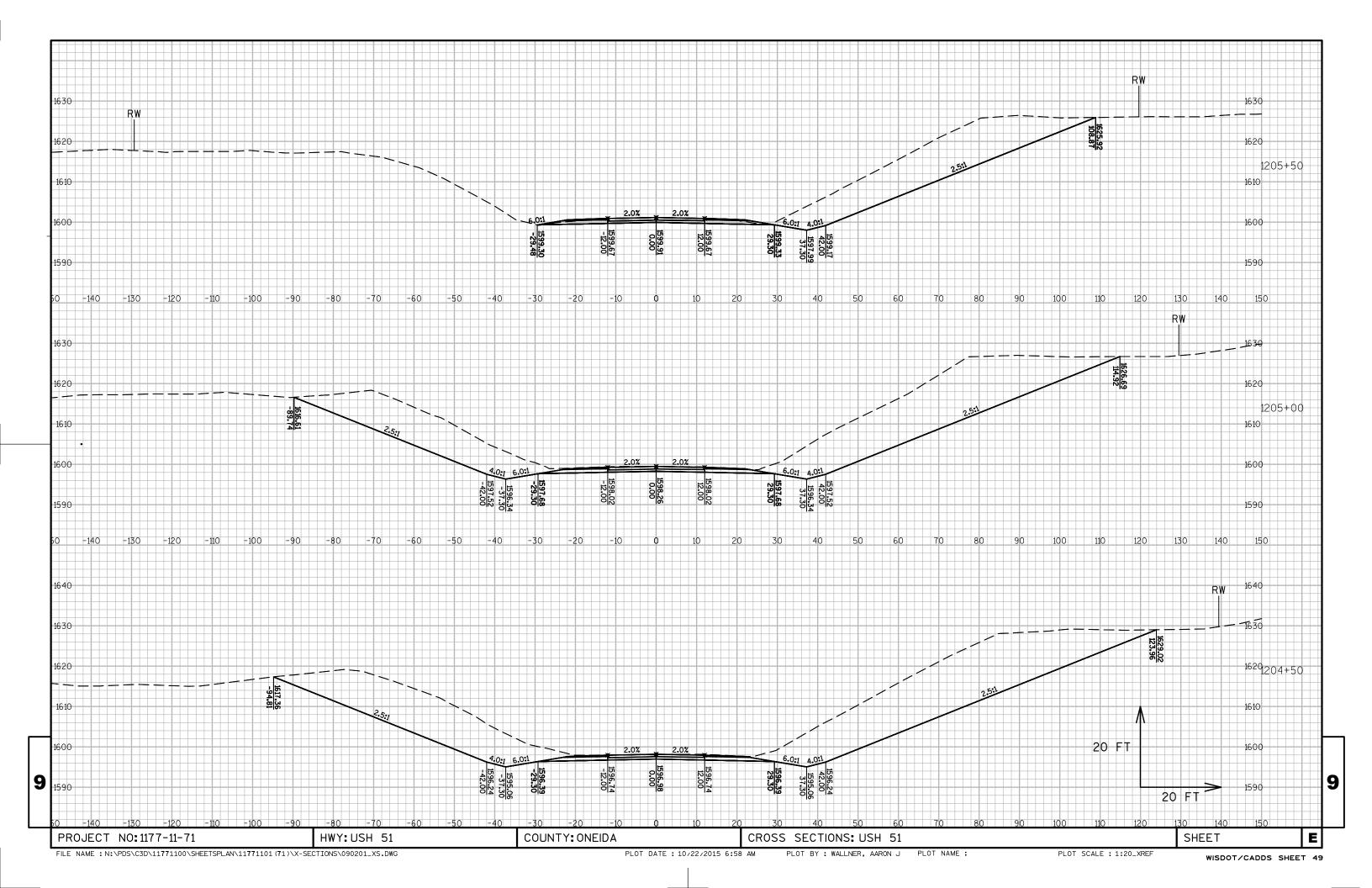
			AREA (SF)	Increme	ntal Vol (CY) (Una	adjusted)	Cumulative Vol (CY)		
STATION	Real Station	Distance	Cut	Fill	Cut Note 1	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.20	Mass Ordinate
1201+00	120100.00	0.00	0.00	0.00	0	0	0	0	0.00
1201+50	120150.00	50.00	81.41	1.62	75	1	75	2	73.58
1202+00	120200.00	50.00	78.74	15.96	148	16	224	21	202.34
1202+50	120250.00	50.00	170.44	0.00	231	1 5	454	39	415.32
1203+00	120300.00	50.00	1026.35	0.00	1,108	0	1,563	39	1,523.46
1203+50	120350.00	50.00	1762.55	0.00	2,582	0	4,145	39	4,105.77
1204+00	120400.00	50.00	2055.16	0.00	3,535	0	7,680	39	7,640.68
1204+50	120450.00	50.00	1551.90	0.00	3,340	0	11,020	39	10,980.55
1205+00	120500.00	50.00	1283.99	0.00	2,626	0	13,645	39	13,606.38
1205+50	120550.00	50.00	630.82	0.09	1,773	0	15,418	39	15,379.26
1206+00	120600.00	50.00	303.81	0.00	865	0	16,284	39	16,244.56
1206+50	120650.00	50.00	36.38	0.39	315	0	16,599	40	16,559.12
1207+00	120700.00	50.00	34.89	0.45	66	1	16,665	41	16,624.17
1207+50	120750.00	50.00	38.01	0.11	68	1	16,732	41	16,691.05
1208+00	120800.00	50.00	0.00	0.00	35	0	16,767	41	16,726.12

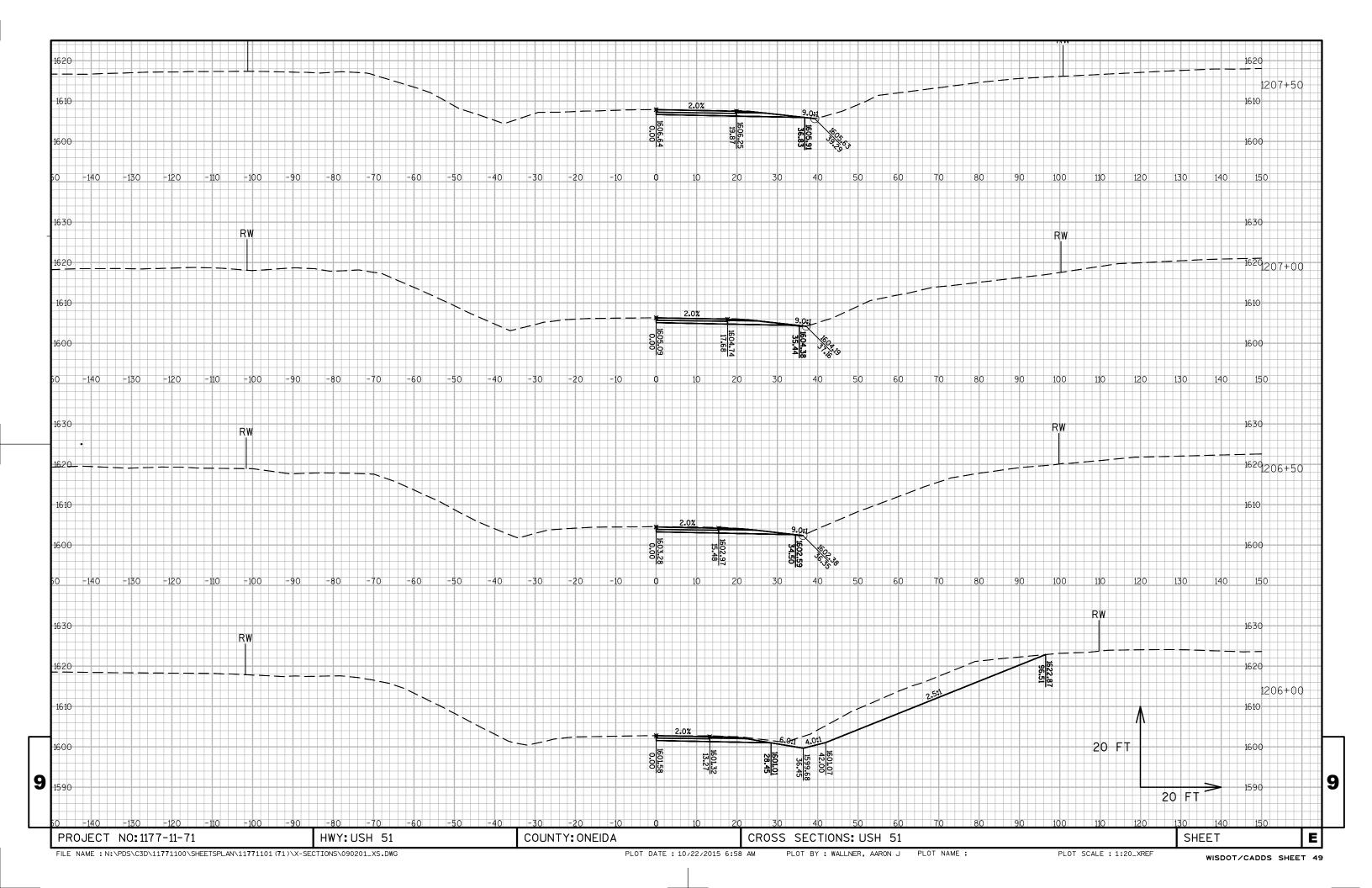
9

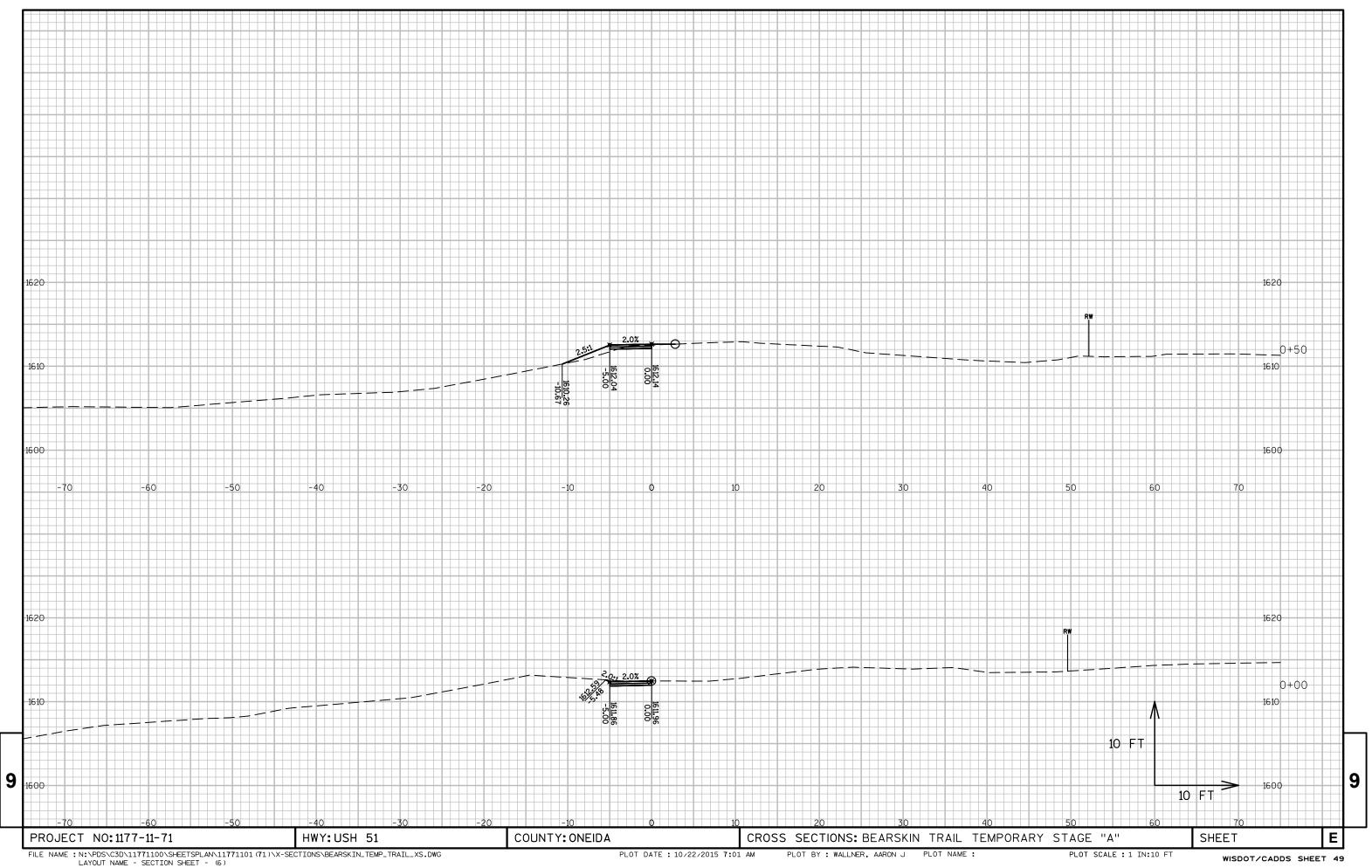
PROJECT NO:1177-11-71 HWY:USH 51 COUNTY:ONEIDA CROSS SECTIONS: EARTHWORK DETAILS SHEET **E**

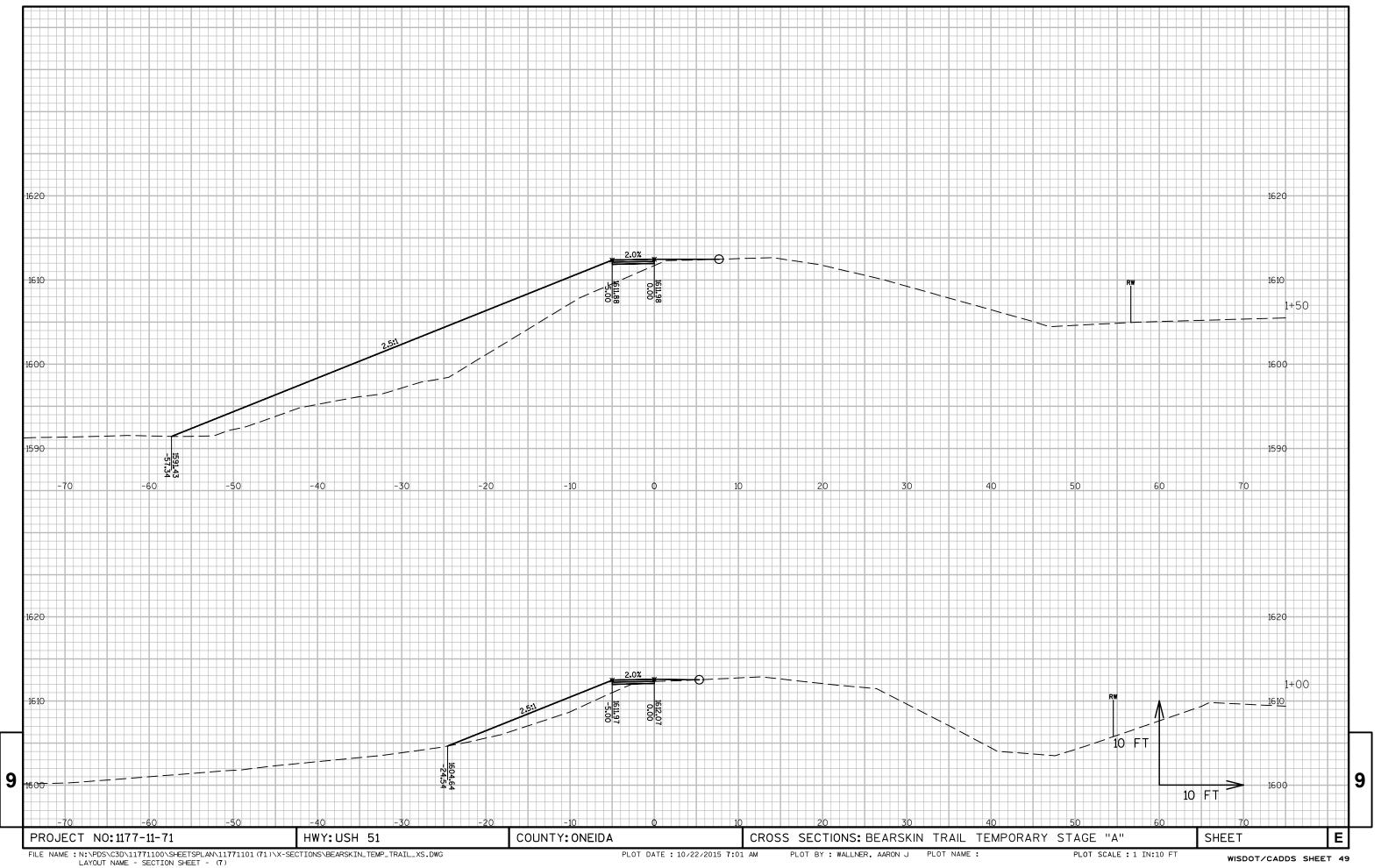


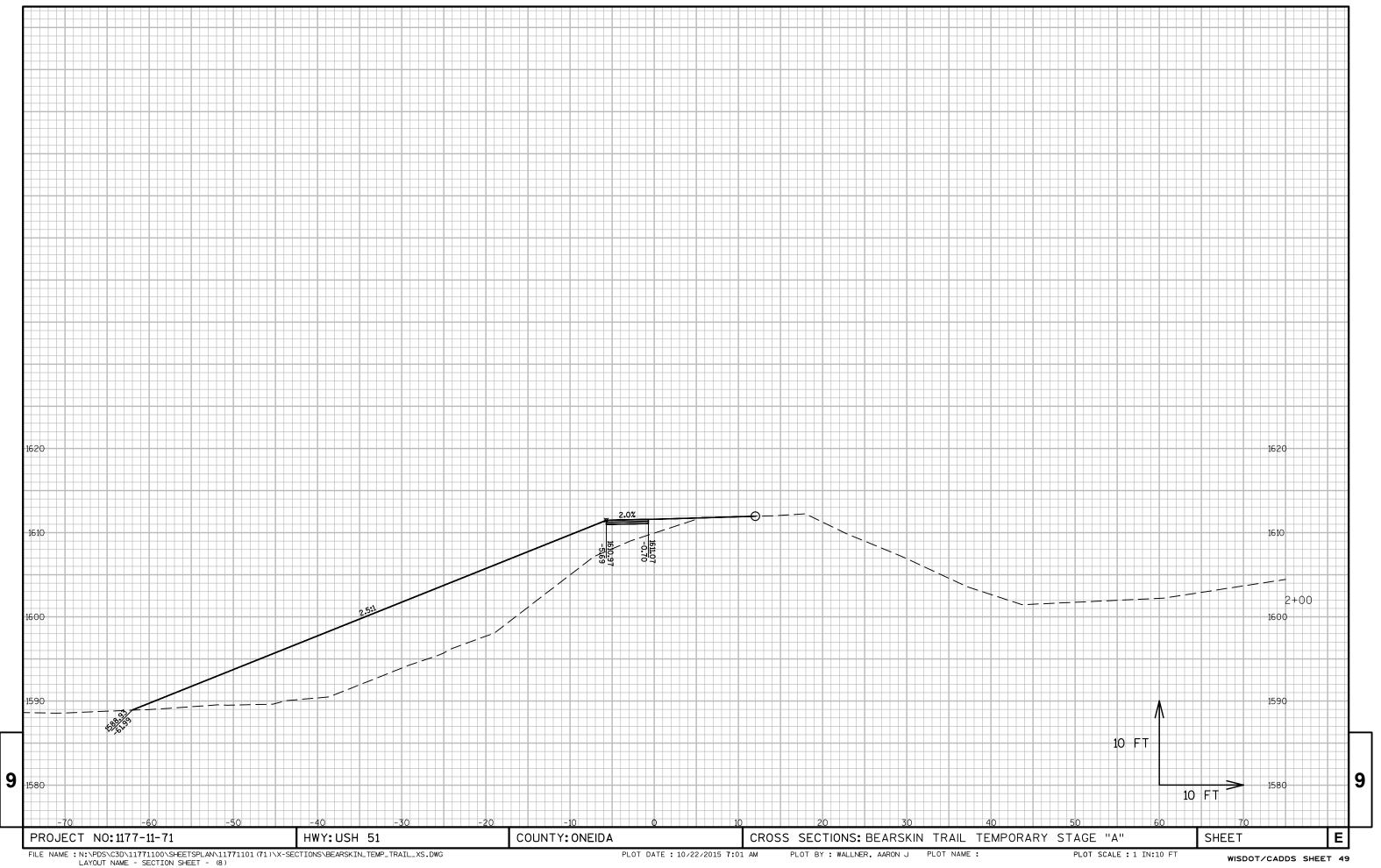


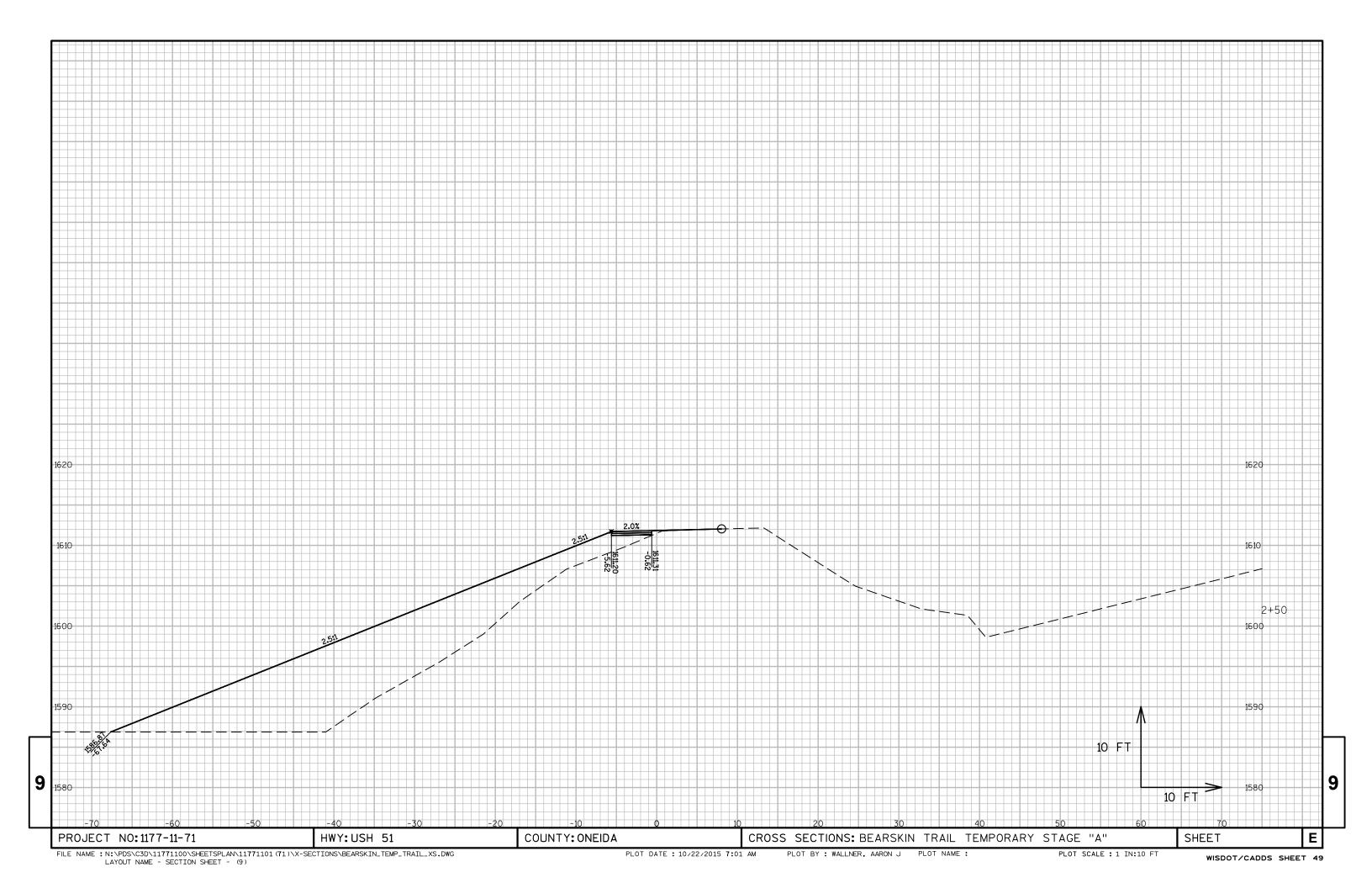


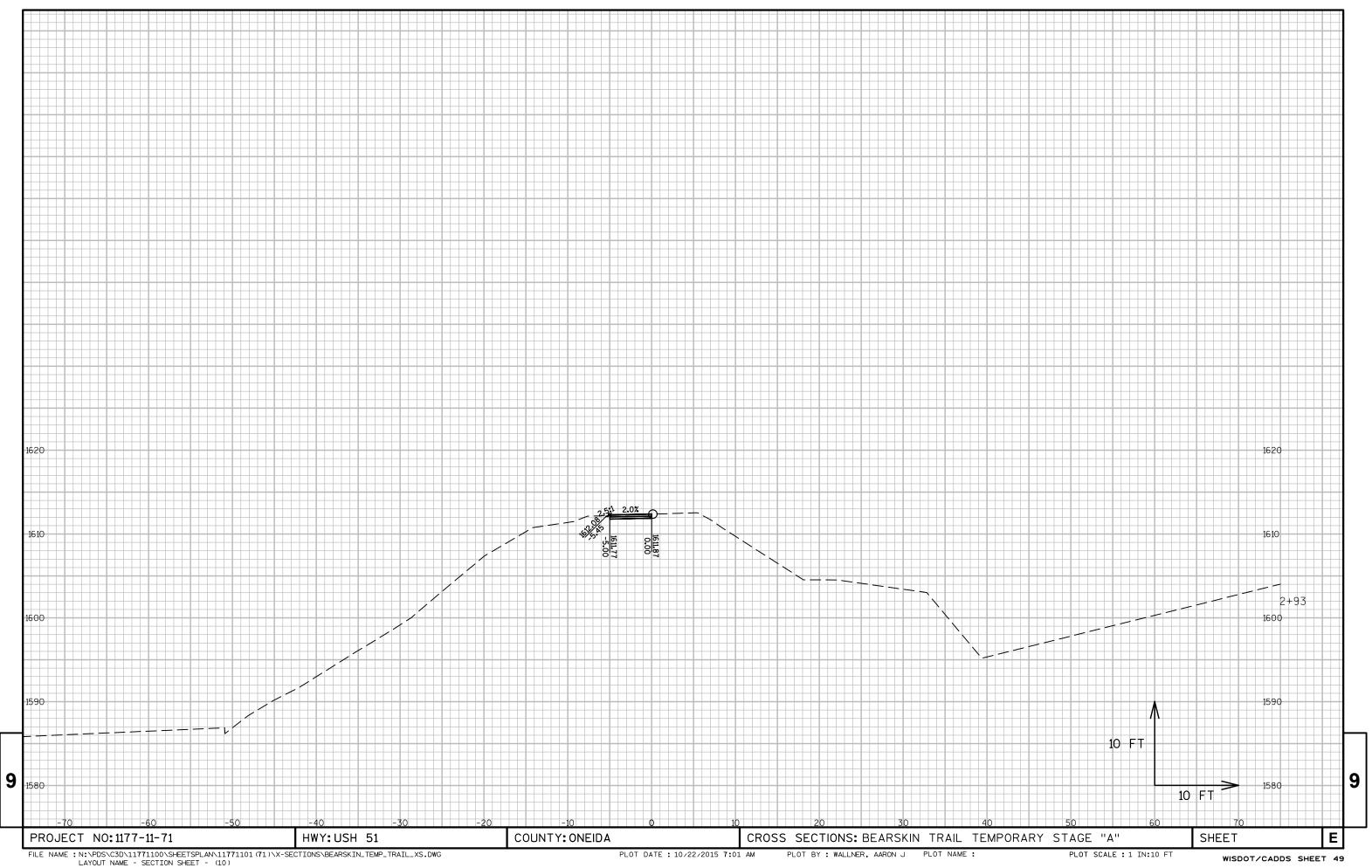


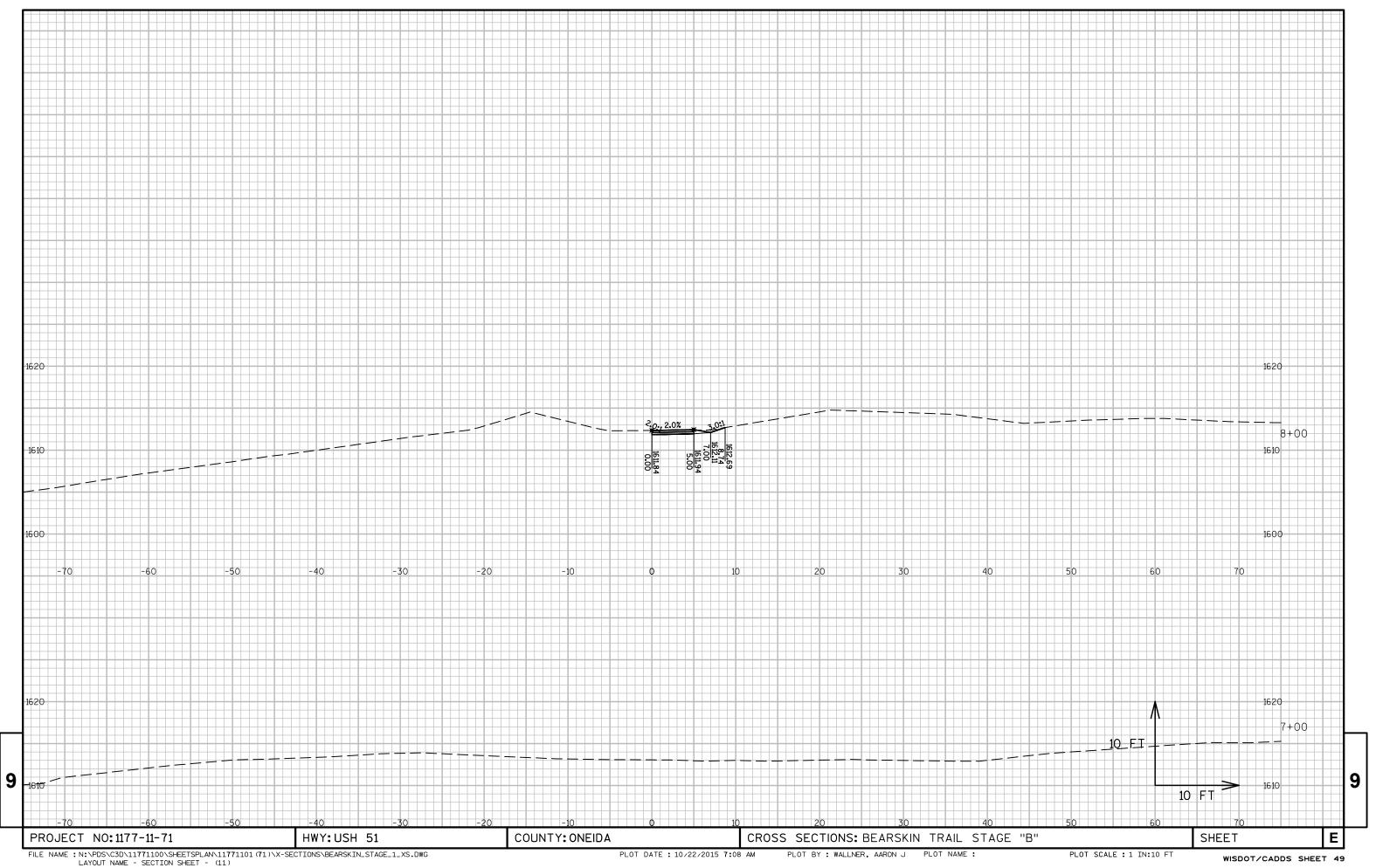


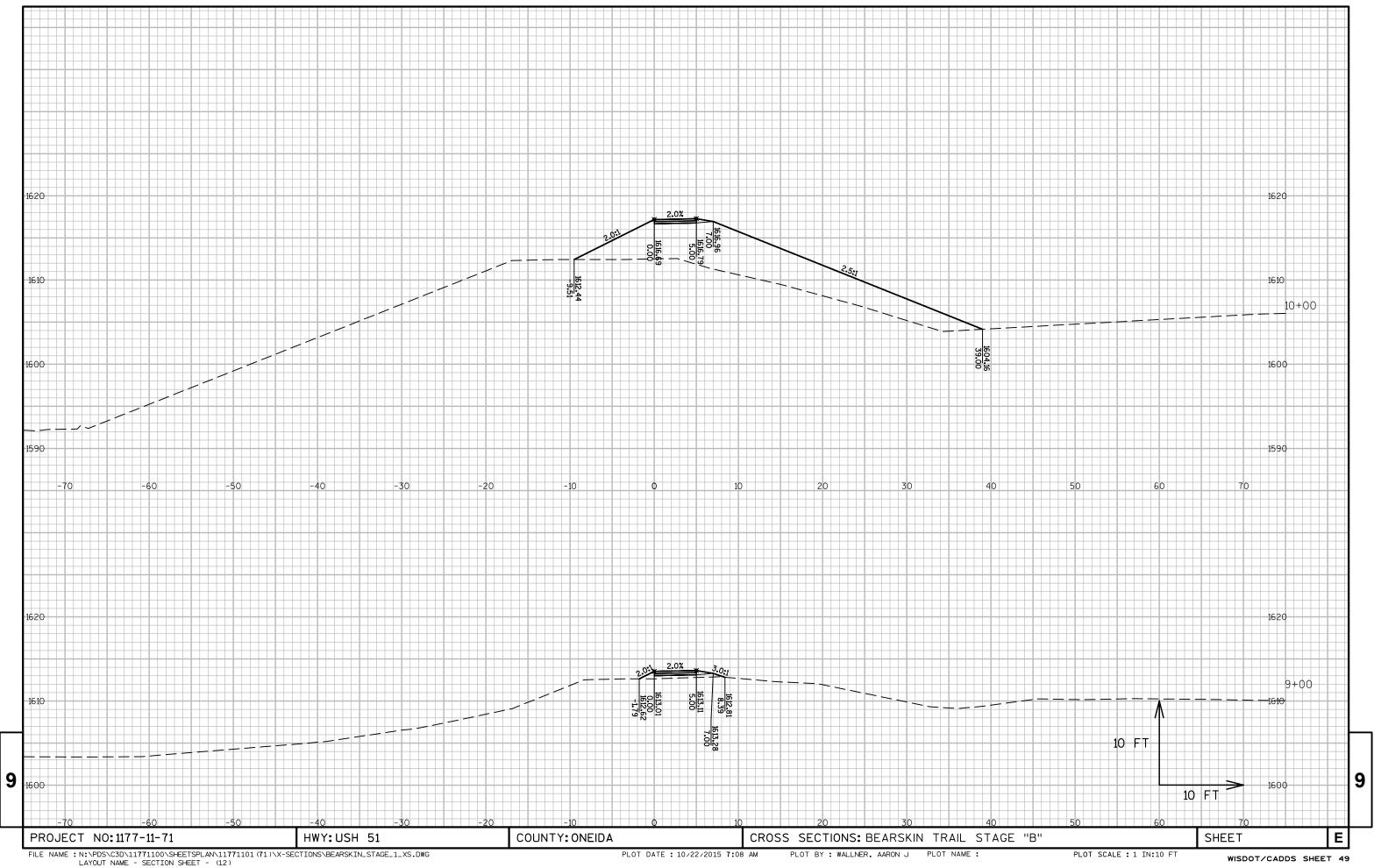


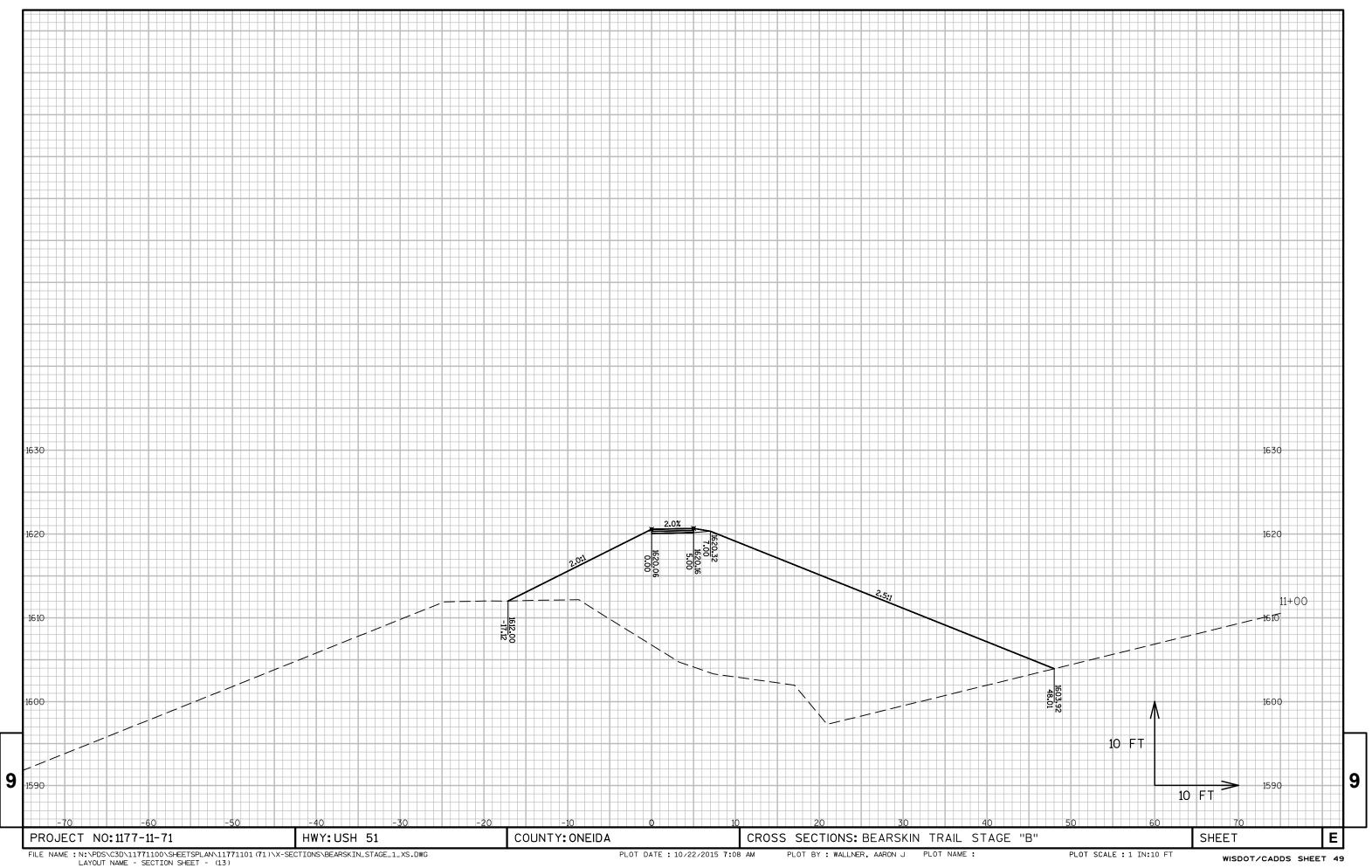


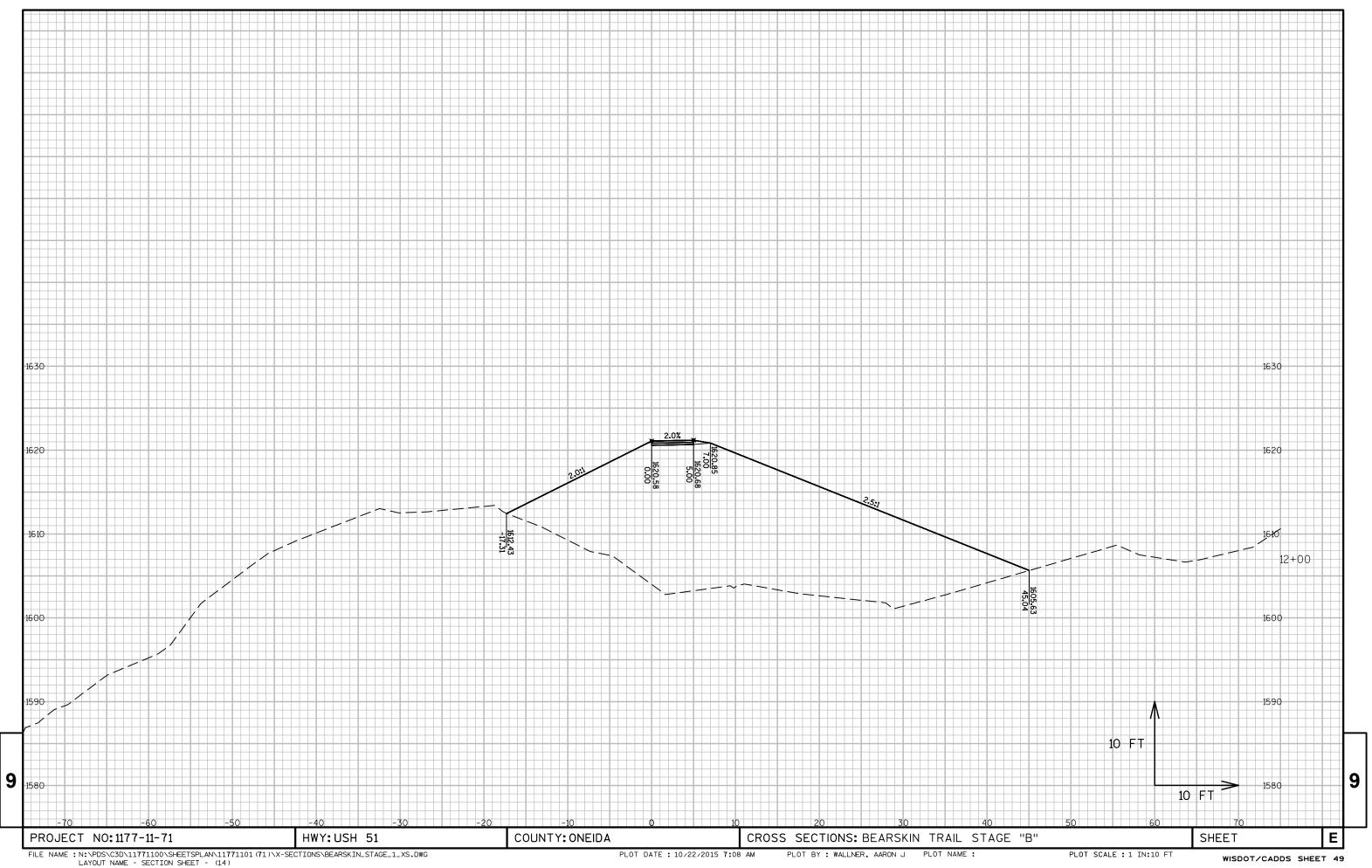


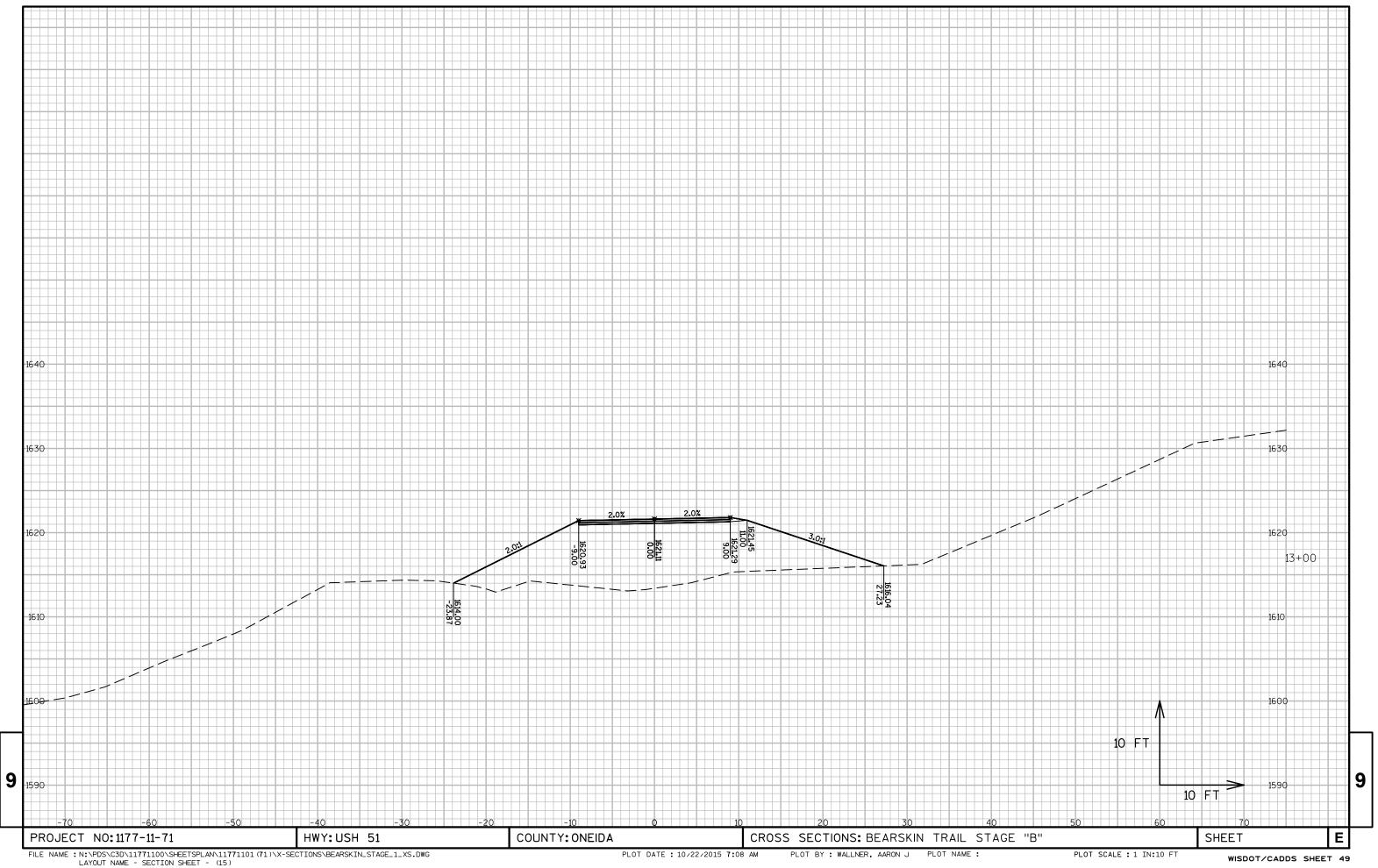


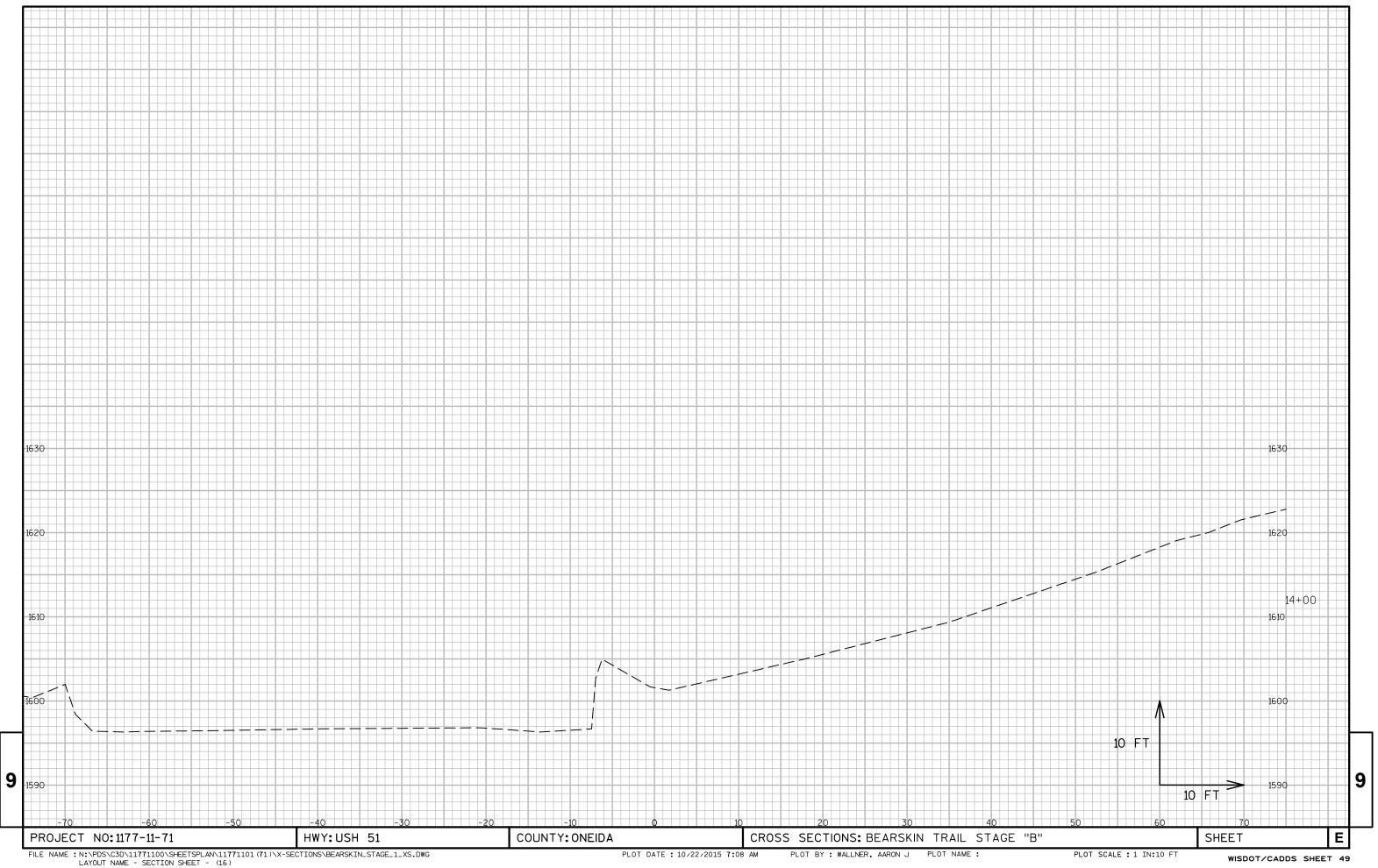


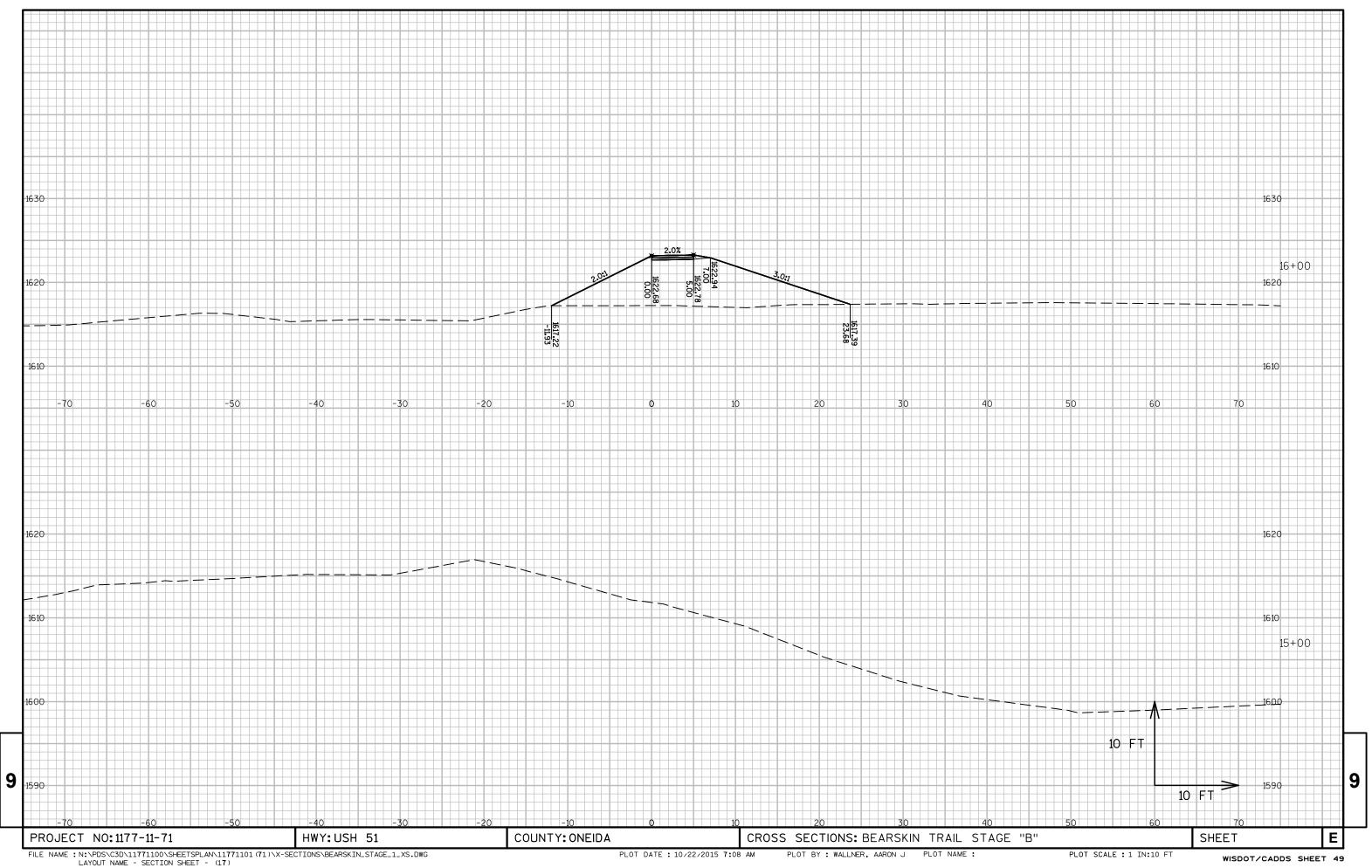


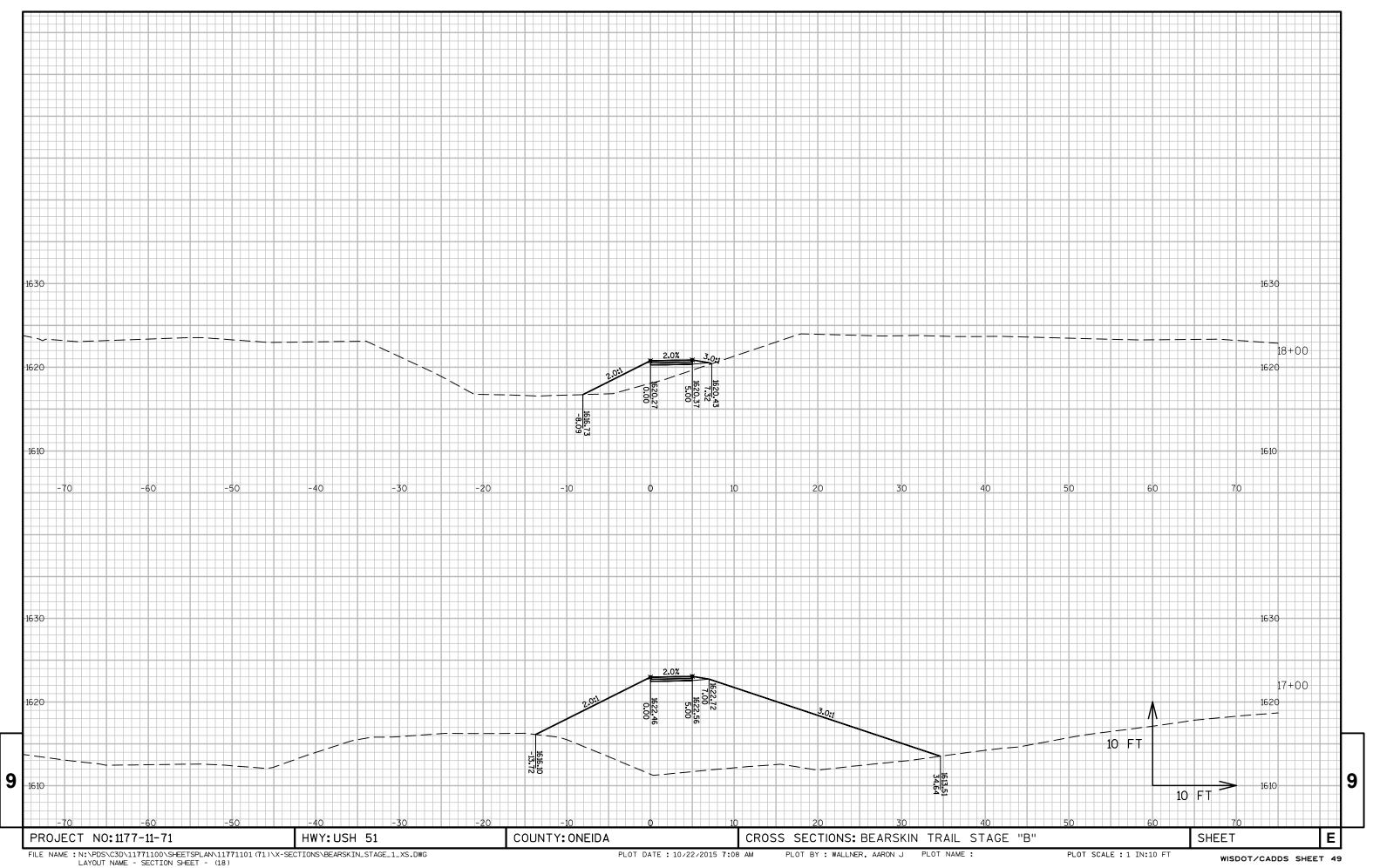


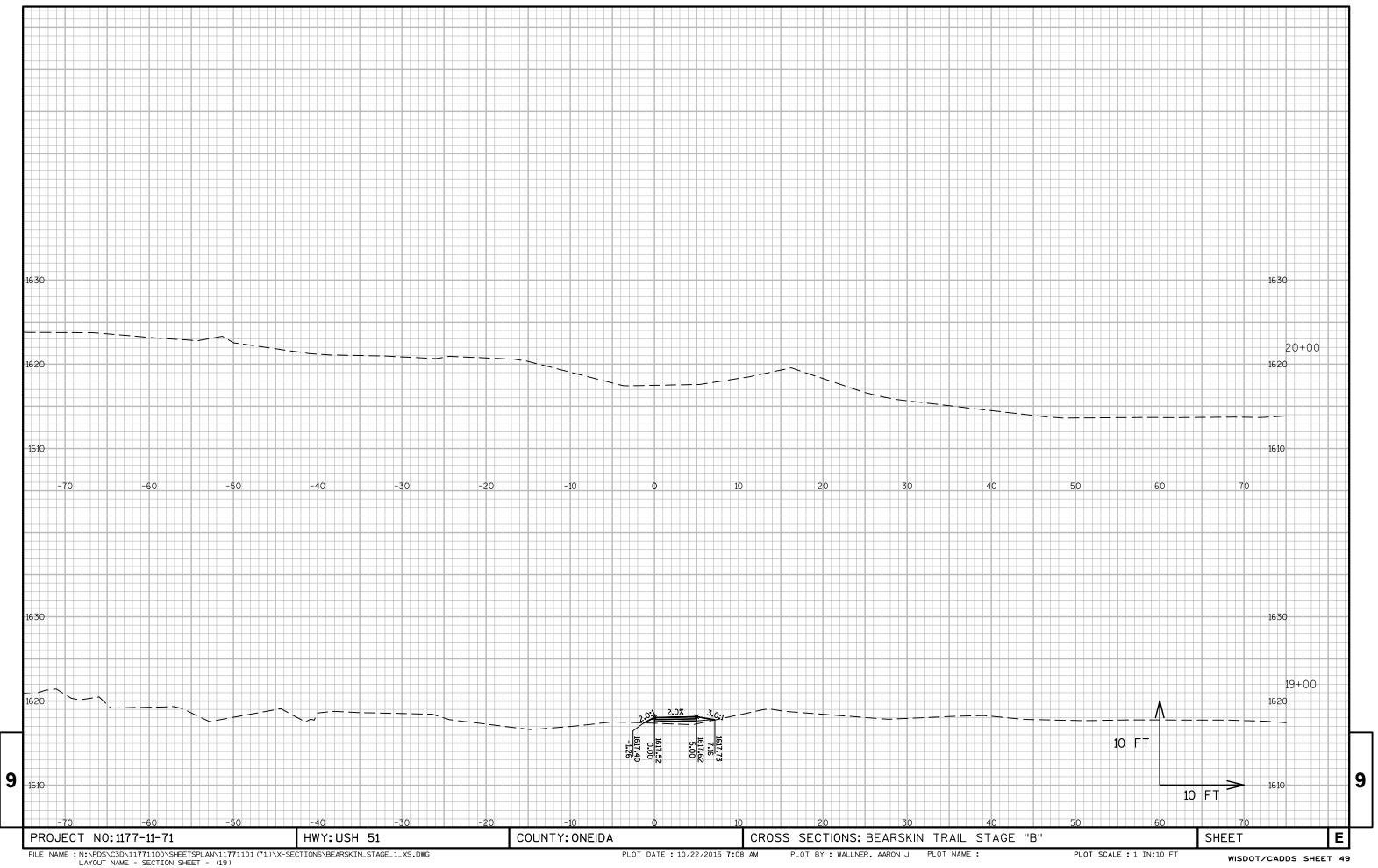


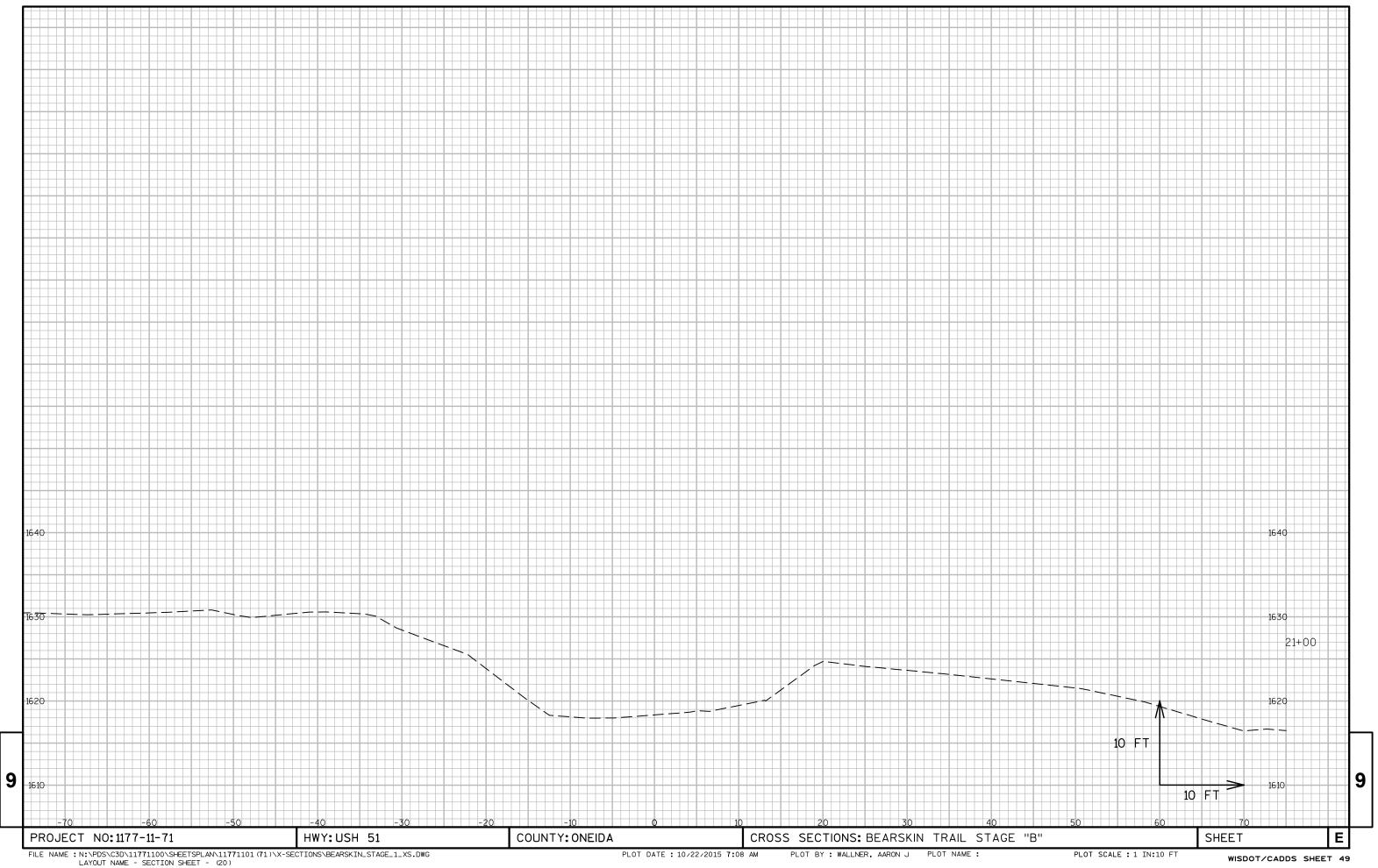


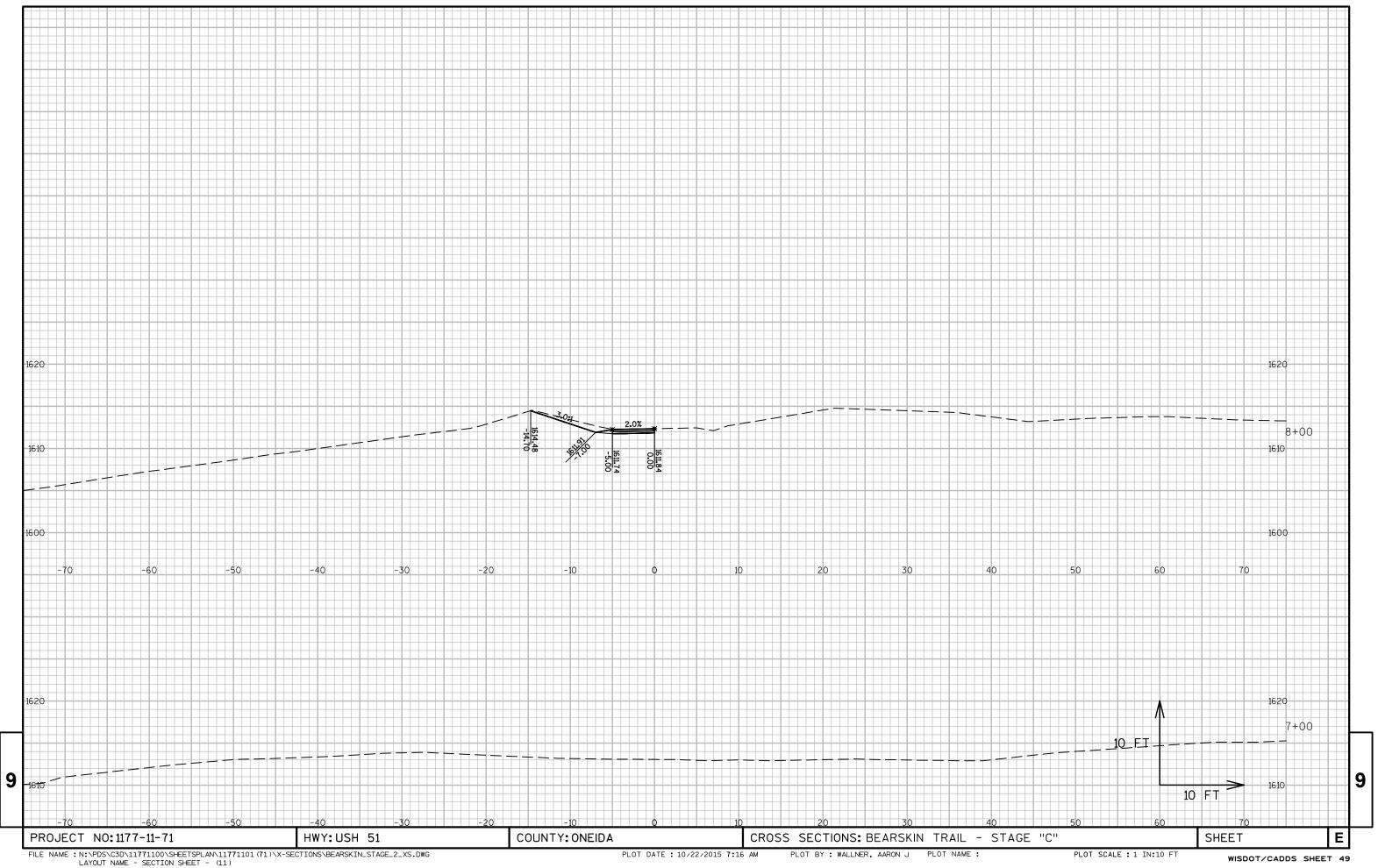


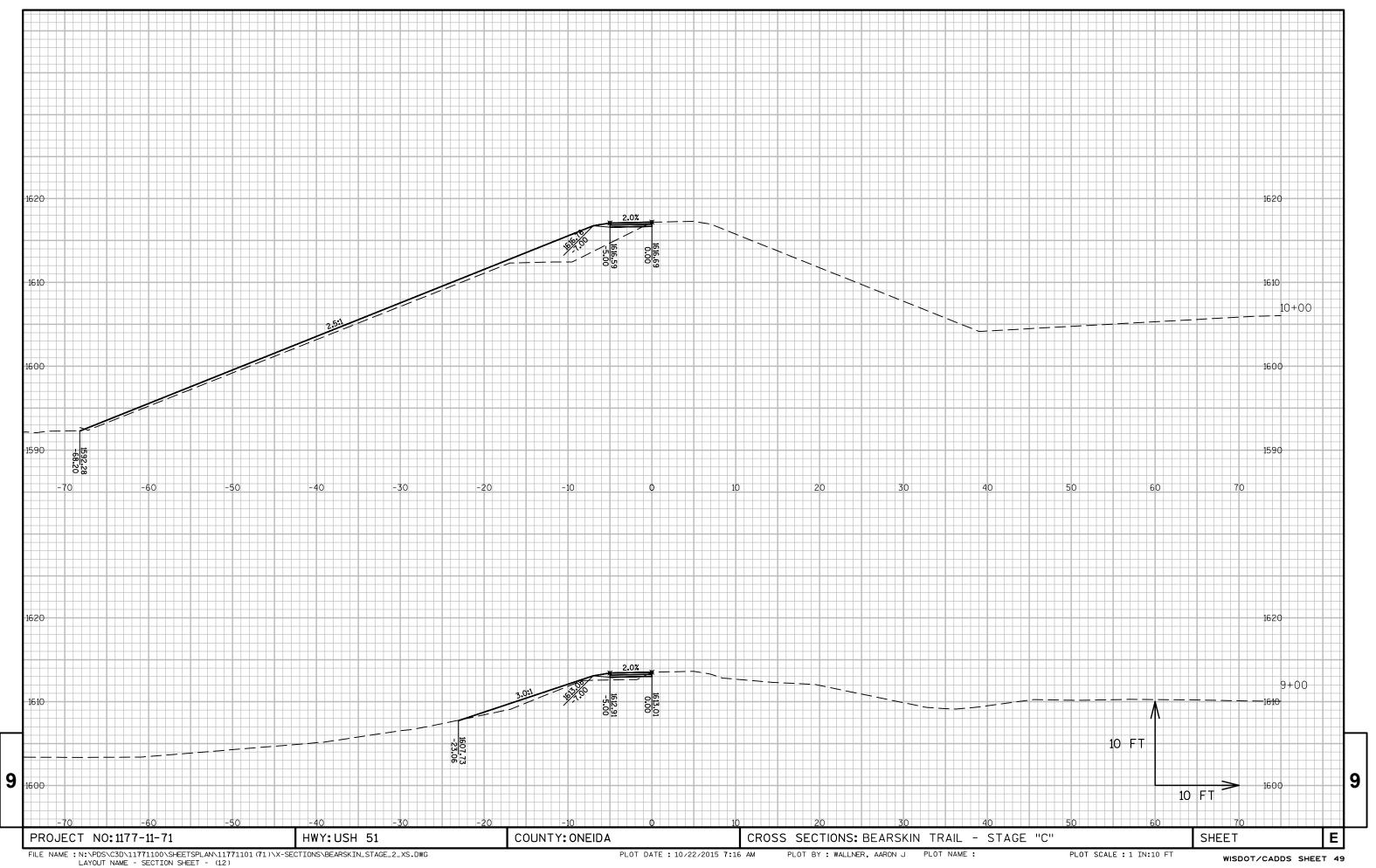


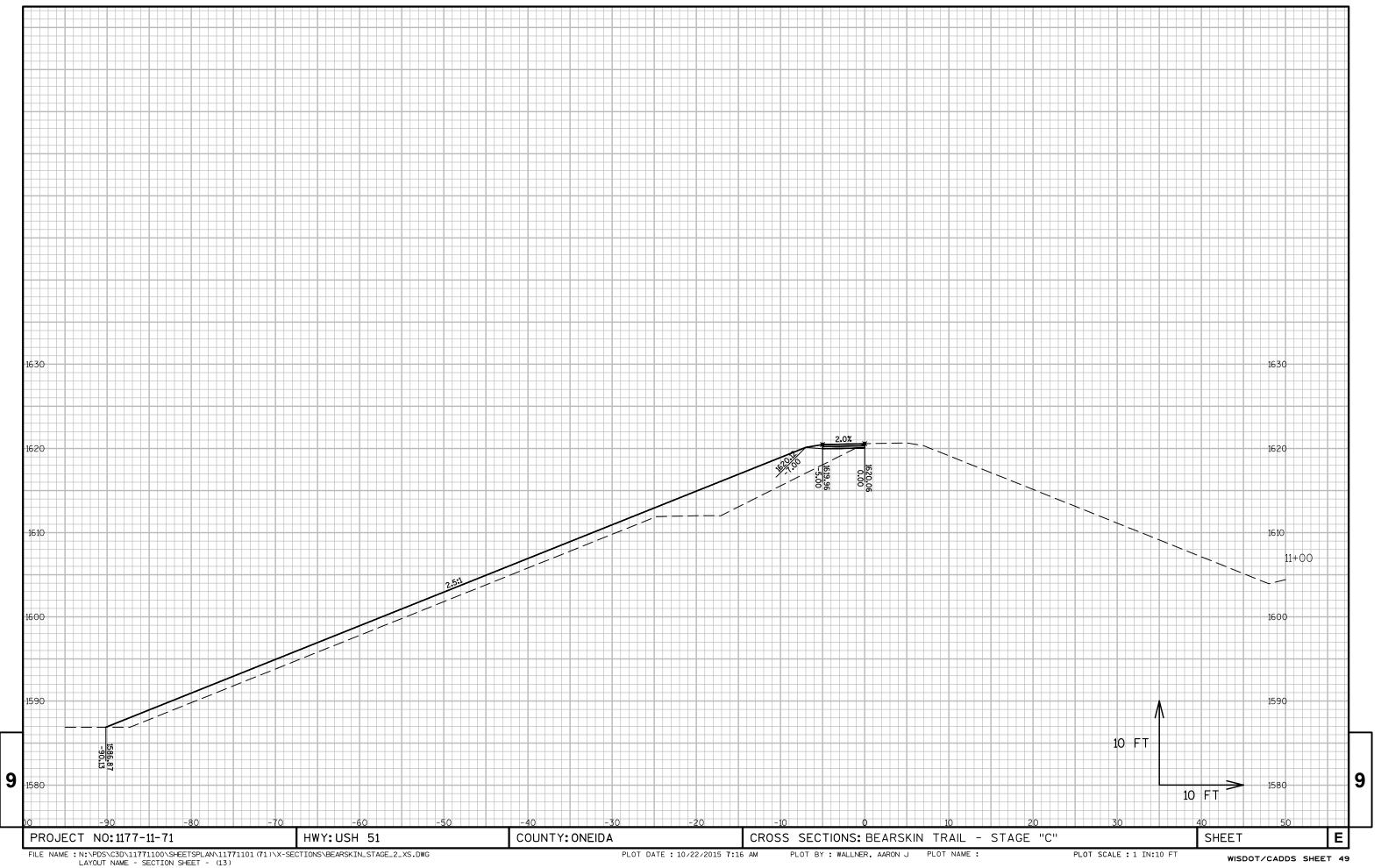


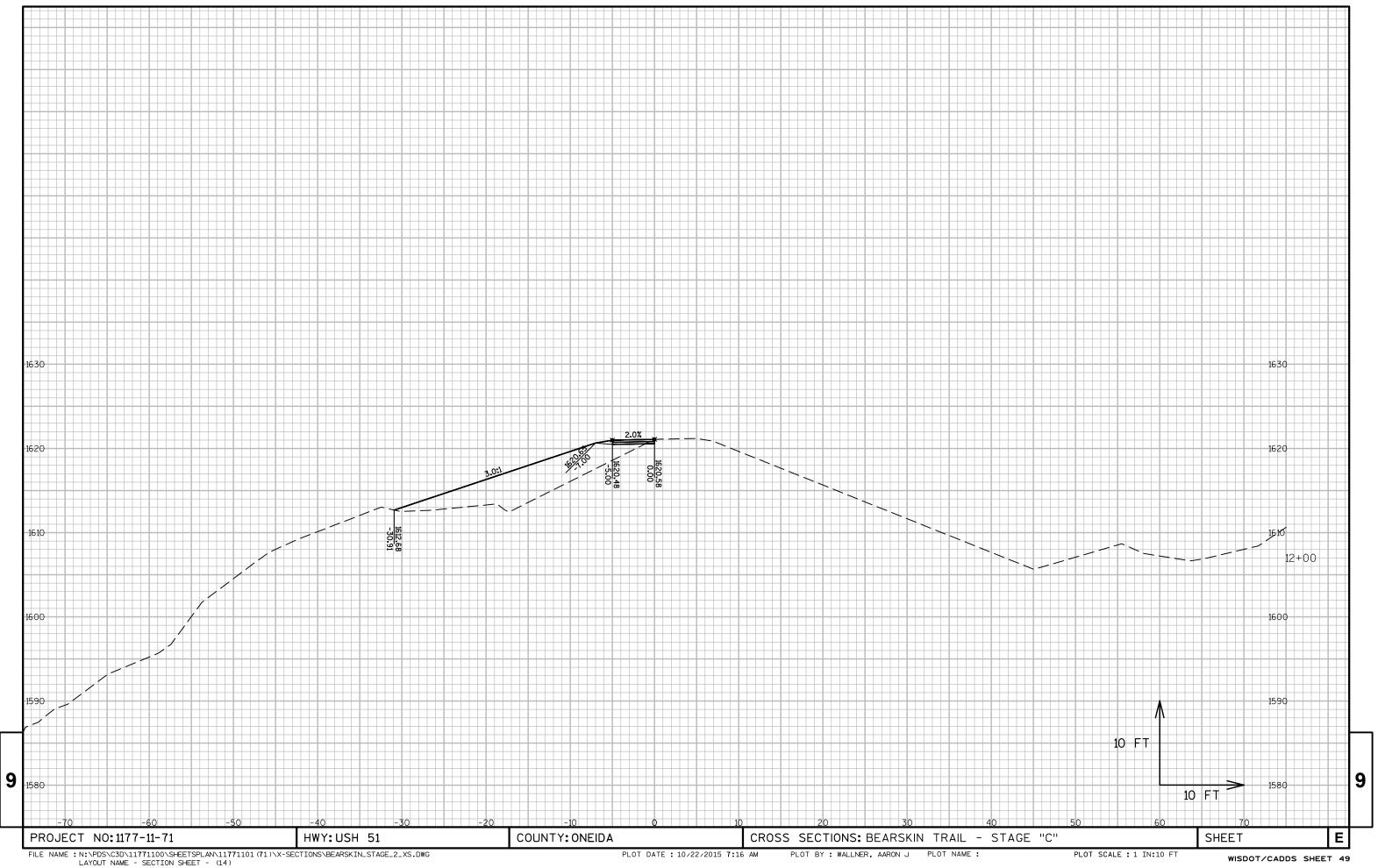


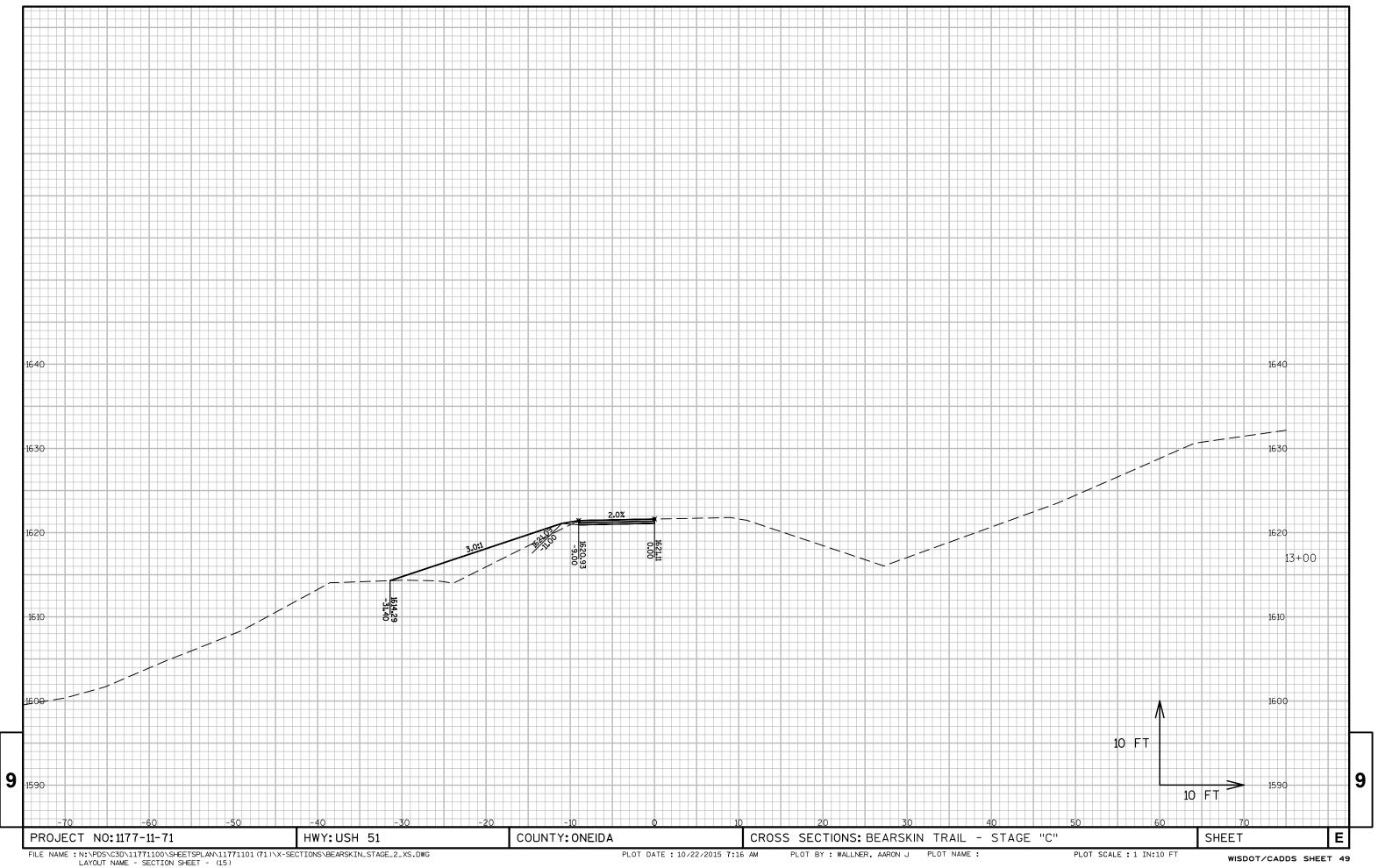


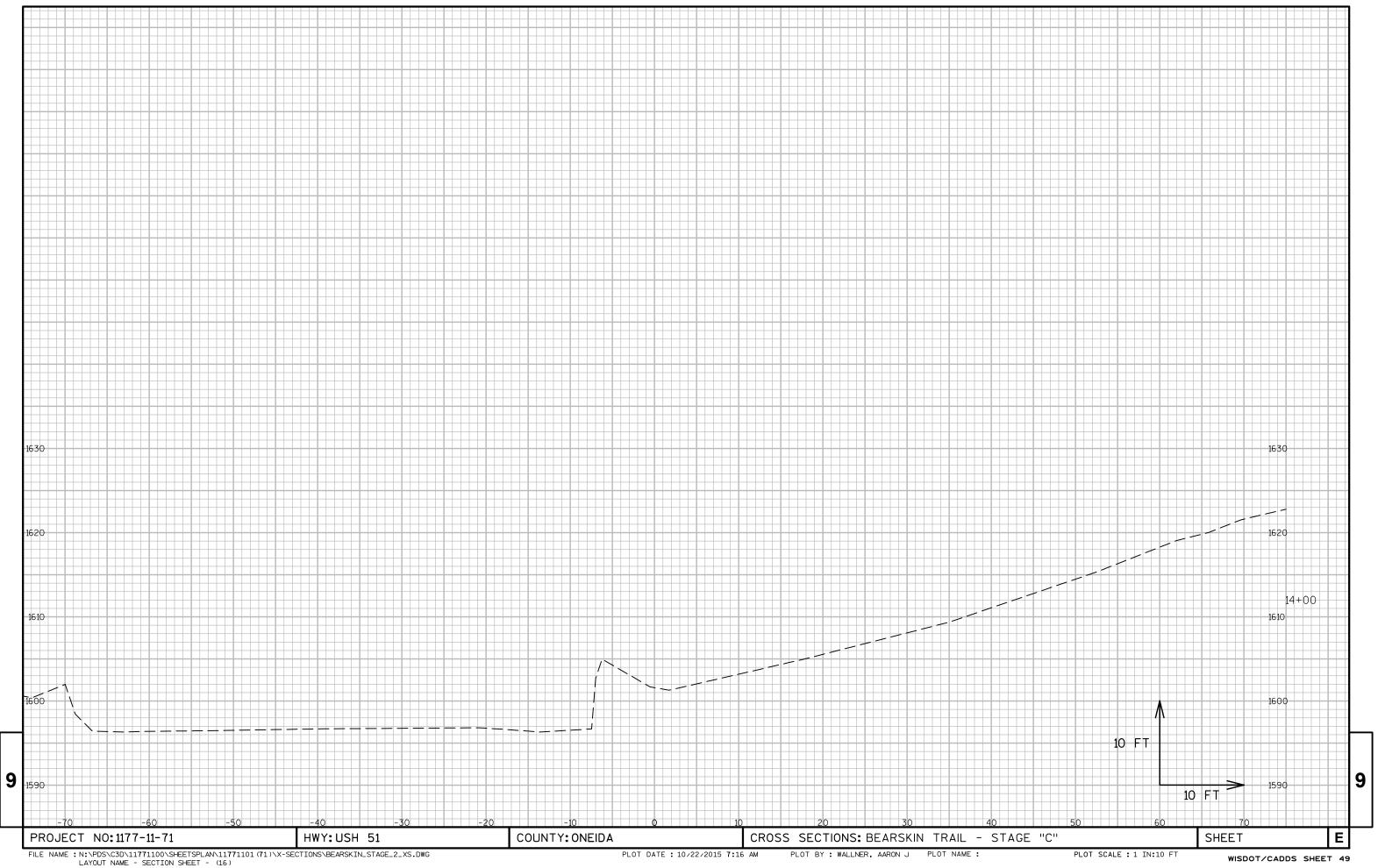


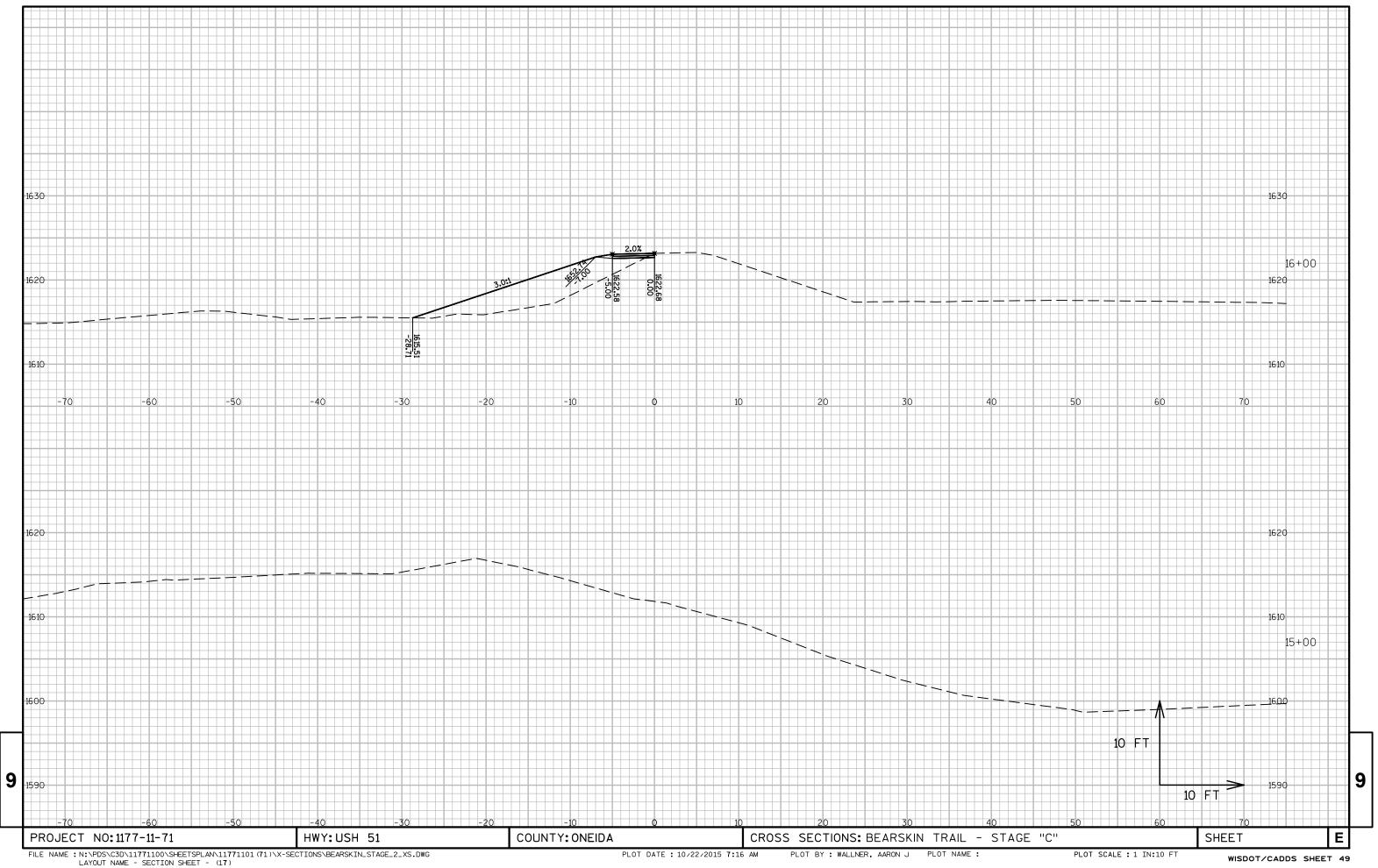


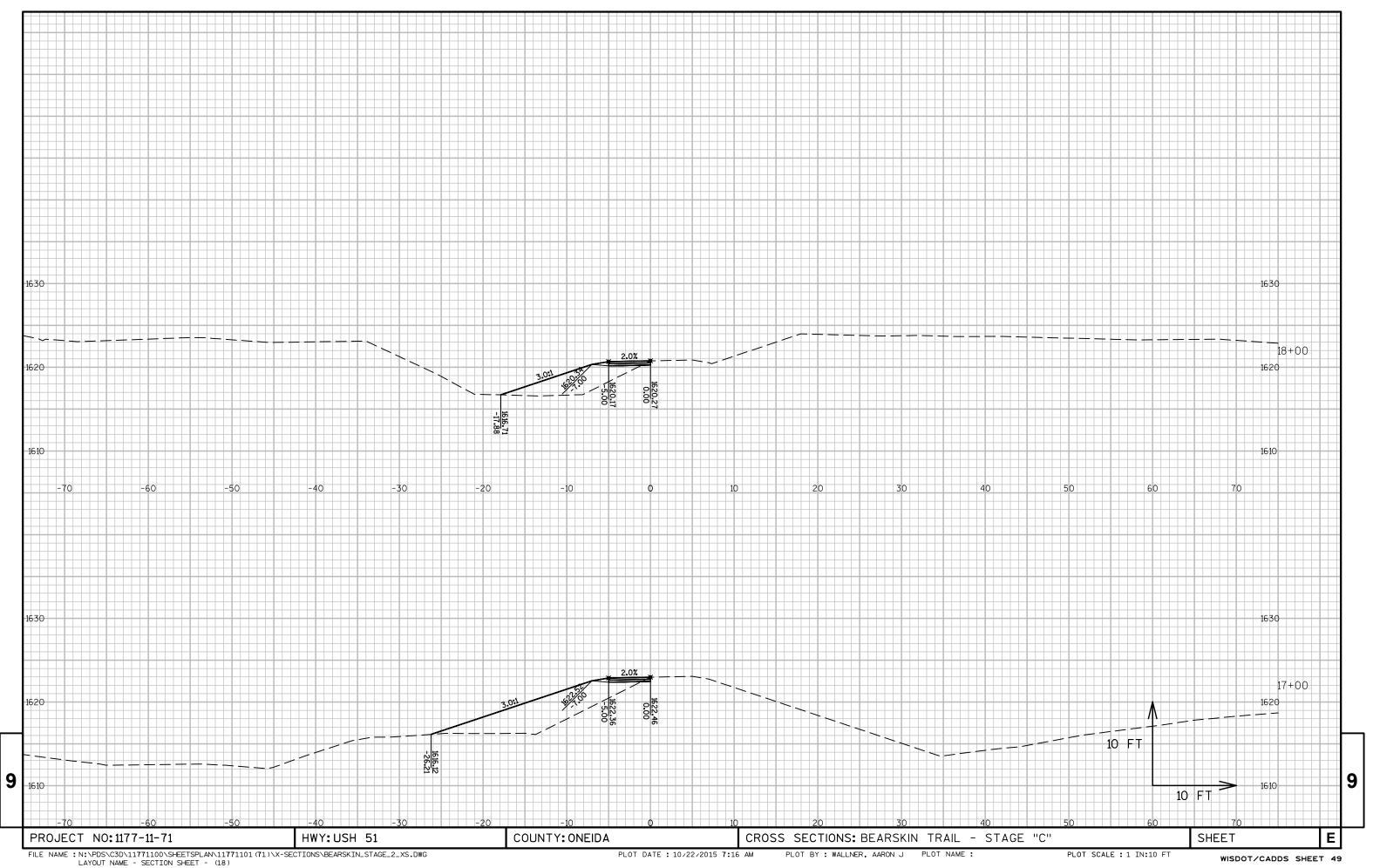


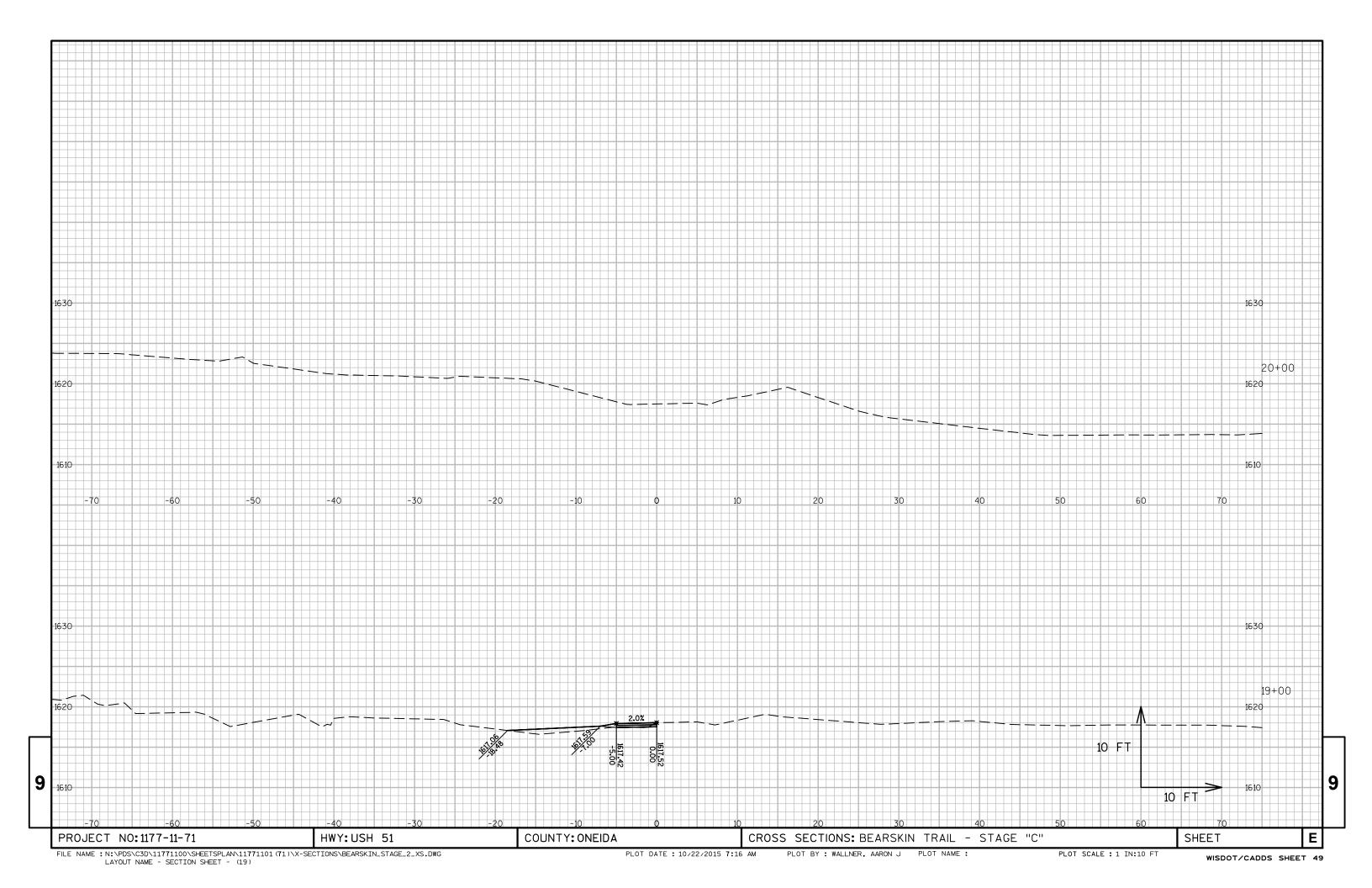


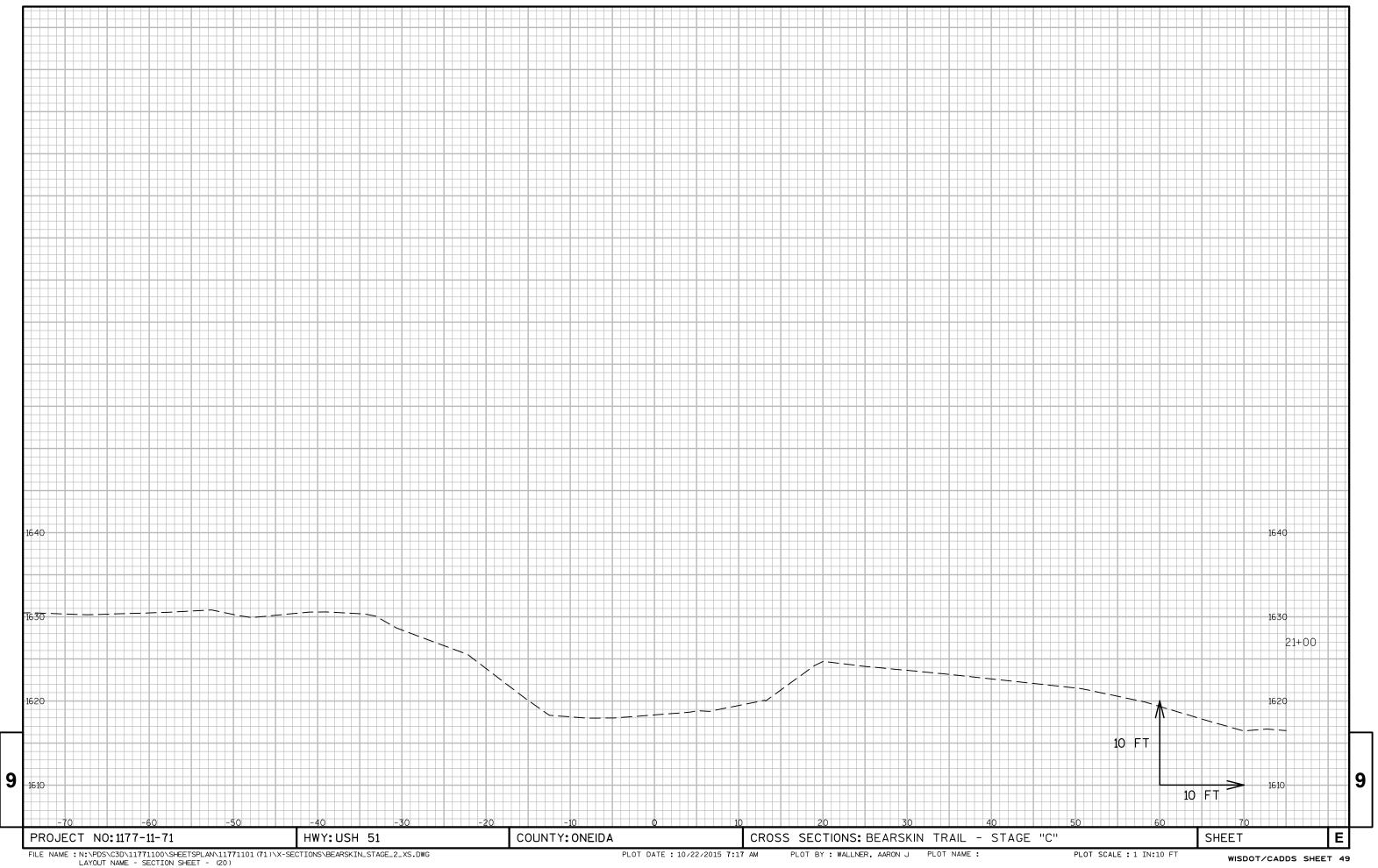














Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov