EAU

PROJECT ID: 7110-00-72

WITH: NA

COUNTY: BUFFALO

MARCH 2018

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
~~Section No.~~	~~7~~	~~Sign Plates~~
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 38

37

N

DESIGN DESIGNATION

A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ALMA - MONDOVI

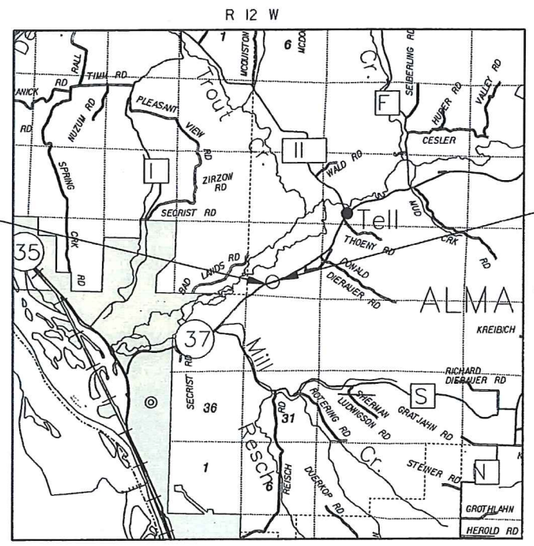
ONE MILE NORTH OF JUNCTION CTH S

STH 37

BUFFALO COUNTY

STATE PROJECT NUMBER
7110-00-72

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7110-00-72	———	—



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, BUFFALO COUNTY, NAD83 (YEAR), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ORIGINAL PLANS PREPARED BY
CBS SQUARED INC.

WISCONSIN
BRIAN E. SMITS
E-27284
CHIPPEWA FALLS
WI
PROFESSIONAL ENGINEER

DATE: 10/19/17 Brian E. Smits
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	CBS SQUARED INC.
Designer	CBS SQUARED INC.
Project Manager	NICOLE PASSUELLO
Regional Examiner	JENNIFER OLDENBURG
Regional Supervisor	TIMOTHY MASON

APPROVED FOR THE DEPARTMENT

DATE: 10/19/17 Nicole Passuello
(Signature)

E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\TTSTH37.DWG

PLOT DATE : 10/19/2017 12:24 PM PLOT BY : NICOLE STEINMETZ PLOT NAME :

GENERAL NOTES

THERE MAY BE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGER'S HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA.

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED BY THE TON OR CUBIC YARD, 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.

RESHAPE AND SEED ANY PREVIOUSLY GRASSED AREAS THAT ARE DISTURBED BY OPERATIONS OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

SIGN AND PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".

UTILITY CONTACTS

ROB MALY
DAIRYLAND POWER COOPERATIVE - ELECTRICITY
3200 EAST AVE S
P.O. BOX 817
LA CROSSE, WI 54602
(608) 787-1248
ROB.MALY@DAIRYLANDPOWER.COM

STEVE JAKUBIEC
TDS TELECOM - COMMUNICATION LINE
10 COLLEGE AVE, SUITE 218A
APPLETON, WI 54911
(920) 882-4166
STEVE.JAKUBIEC@TDSTELECOM.COM

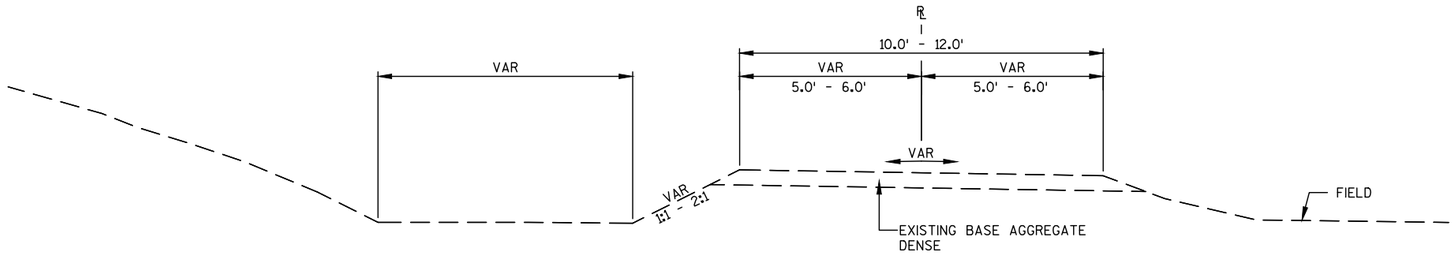
TIM HOLTAN
RIVERLAND ENERGY COOPERATIVE - ELECTRICITY
N28988 STATE ROAD 93
P.O. BOX 277
ARCADIA, WI 54612-0277
(608) 323-3381
THOLTAN@RIVERLANDENERGY.COM

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

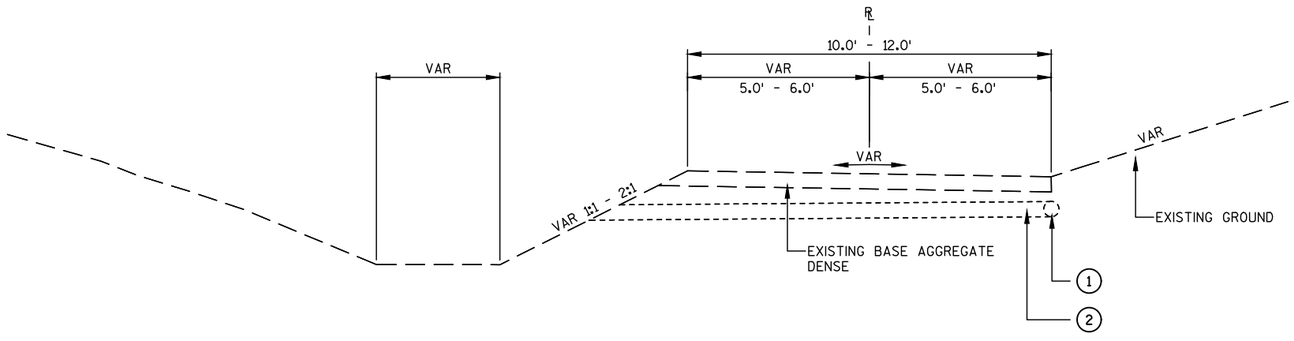
WISCONSIN DNR LIAISON

AMY LESIK
ENVIRONMENTAL ANALYSIS AND REVIEW SPECIALIST -
BUREAU OF ENVIRONMENTAL ANALYSIS AND SUSTAINABILITY
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: (715) 836-6571
FAX: (715) 839-6076
AMYL.LESIK@WISCONSIN.GOV

2



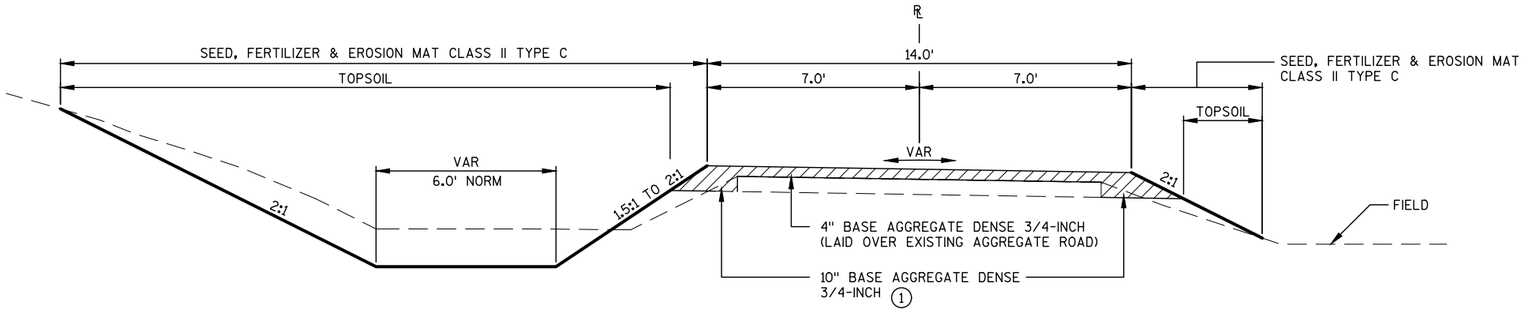
TYPICAL EXISTING SECTION
SEDIMENT BASIN SERVICE ROAD
STA 10+40.00 TO STA 14+34.00



TYPICAL EXISTING SECTION
SEDIMENT BASIN SERVICE ROAD
STA 14+34.00 TO STA 19+00.00

NOTES:

1. EXISTING UNDERDRAIN RUNS ALONG WEST SIDE OF ACCESS SERVICE RD.
2. UNDERDRAIN RUNS UNDERNEATH ROAD AND DISCHARGES TO CHANNEL. LOCATIONS OF DISCHARGES ARE UNKNOWN. FIELD LOCATE / VERIFY.

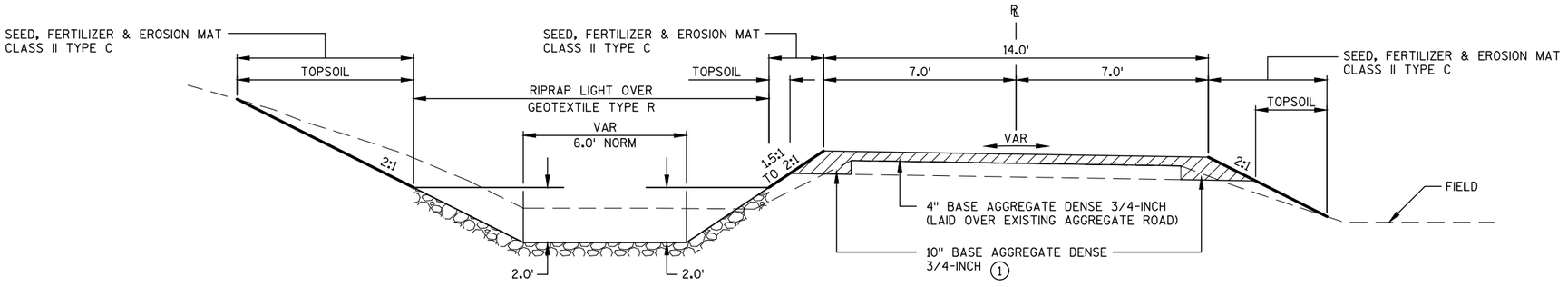


TYPICAL FINISHED SECTION
SEDIMENT BASIN SERVICE ROAD
STA 10+40.00 TO STA 12+75.00

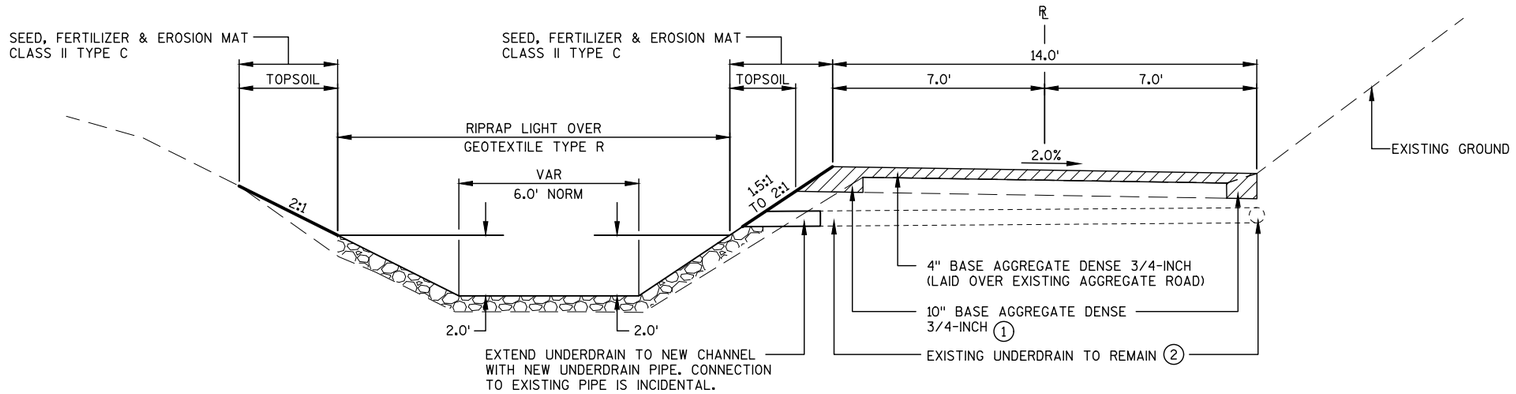
NOTES:

(1) DEEPEN BASE TO 10" AT EDGES WHERE FINISHED ROADWAY IS WIDER THAN EXISTING ROAD.

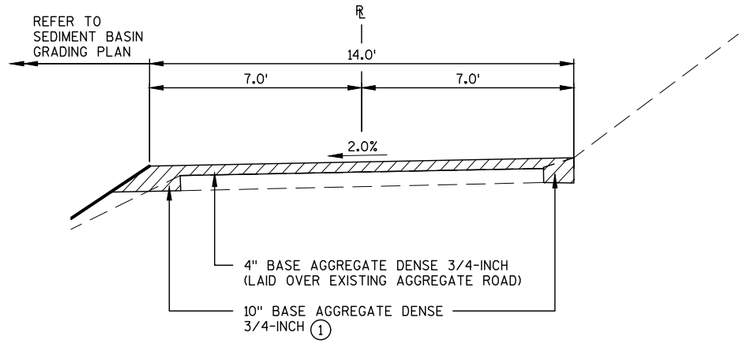
(2) INSTALL NEW UNDERDRAIN PIPE ALONG RIGHT SIDE OF SERVICE ROAD BETWEEN STATIONS 19+90 TO 14+82 AND DISCHARGE TO CHANNEL.



TYPICAL FINISHED SECTION
SEDIMENT BASIN SERVICE ROAD
STA 12+75.00 TO STA 14+34.00

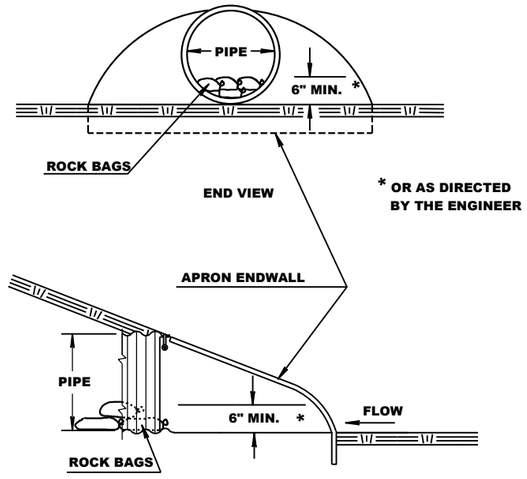


TYPICAL FINISHED SECTION
SEDIMENT BASIN SERVICE ROAD
STA 14+34.00 TO STA 17+50.00

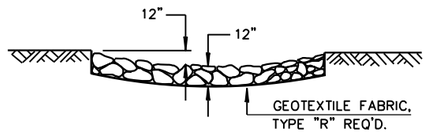


TYPICAL FINISHED SECTION
SEDIMENT BASIN SERVICE ROAD
STA 17+50.00 TO STA 19+00.00

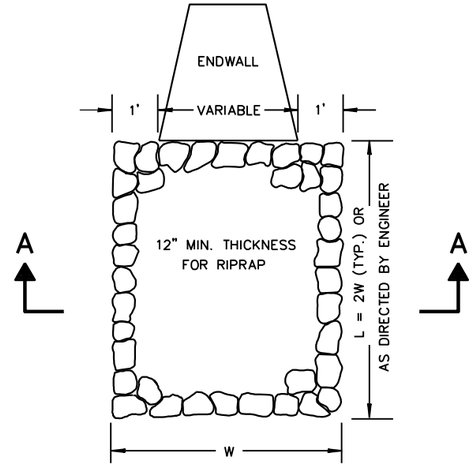
2



CULVERT PIPE CHECK



SECTION A–A



RIPRAP TREATMENT AT CULVERTS

2

2

INSTALL HEAVY DUTY SILT FENCE APPROXIMATELY 3' OUTSIDE OF GRADING LIMITS ALONG BOTTOM OF BANK, OR AS DIRECTED BY ENGINEER.

TDS TELECOM

WIS 37

42+50

10+00

11+00

12+00

13+00

14+00

15+00

ASPH PE

CONC

CONC

SHED

CORN CRIB

EXISTING DRAINAGE CL

PC STA 10+67.53

PT STA 11+19.02

PC STA 11+93.79

PT STA 12+56.68

+75.0

PC STA 13+34.84

PCC STA 14+92.98

MATCHLINE STA 15+50

PRC STA 14+02.83

ACCESS SERVICE RD

RIVERLAND ENERGY COOPERATIVE

SLOPE INTERCEPTS (TYP)

N

LEGEND

- RIPRAP LIGHT OVER GEOTEXTILE TYPE R
- SILT FENCE
- HEAVY DUTY SILT FENCE
- EROSION MAT CLASS II TYPE C
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECK
- MULCH

MATCHLINE STA 15+50

16+00

PT STA 16+10.01

PC STA 16+32.29

PT STA 16+90.99

17+00

18+00

19+00

PC STA 19+47.77

19+97

ACCESS SERVICE RD

SLOPE INTERCEPTS (TYP)

N

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	EROSION CONTROL	SHEET 6	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\ECSTH37.DWG

SHEET NAME: ECSTH3701

2

CONSTRUCT PER
SEDIMENT BASIN
SERVICE ROAD
CROSS SECTIONS

TOP OF BERM
EL 736.50

PROPOSED BASIN
BOTTOM EL 718.00

1.5:1

36.0'

16.2'

27.6'

VAR

16.9'

10:1

MULCH THE 10:1
BOTTOM SLOPE

EROSION MAT THE
SIDE SLOPES

REMOVE 1 - EXISTING 24" CPCS

REMOVE 2 - EXISTING 24" CPCS

CONSTRUCT PER
SEDIMENT BASIN SERVICE
ROAD CROSS SECTIONS

CONTACT THE CONSULTANT PROJECT MANAGER,
BRAIN SMITS AT 715-861-7420,
BSMITS@CBSSQUAREDINC.COM, FOR ELECTRONIC
COPIES OF THE FINISHED SURFACE AND DATA FILES
NEEDED FOR STAKING THE SEDIMENT BASIN

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	SEDIMENT BASIN GRADING PLAN	SHEET 7	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSOTHER\SITEPLANS.DWG

SHEET NAME: SITE PLAN_30SCALE

7110-00-72

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	10.000	10.000
0004	203.0100	Removing Small Pipe Culverts	EACH	5.000	5.000
0006	205.0100	Excavation Common	CY	8,663.000	8,663.000
0008	213.0100	Finishing Roadway (project) 01. 7110-00-72	EACH	1.000	1.000
0010	305.0110	Base Aggregate Dense 3/4-Inch	TON	770.000	770.000
0012	520.8700	Cleaning Culvert Pipes	EACH	2.000	2.000
0014	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000
0016	606.0100	Riprap Light	CY	395.000	395.000
0018	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	90.000	90.000
0020	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7110-00-72	EACH	1.000	1.000
0022	619.1000	Mobilization	EACH	1.000	1.000
0024	624.0100	Water	MGAL	15.000	15.000
0026	625.0100	Topsoil	SY	8,328.000	8,328.000
0028	627.0200	Mulching	SY	2,253.000	2,253.000
0030	628.1504	Silt Fence	LF	1,220.000	1,220.000
0032	628.1520	Silt Fence Maintenance	LF	1,220.000	1,220.000
0034	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0036	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0038	628.2027	Erosion Mat Class II Type C	SY	6,245.000	6,245.000
0040	628.7504	Temporary Ditch Checks	LF	24.000	24.000
0042	628.7555	Culvert Pipe Checks	EACH	12.000	12.000
0044	629.0210	Fertilizer Type B	CWT	6.500	6.500
0046	630.0120	Seeding Mixture No. 20	LB	260.000	260.000
0048	630.0160	Seeding Mixture No. 60	LB	11.000	11.000
0050	642.5001	Field Office Type B	EACH	1.000	1.000
0052	643.0300	Traffic Control Drums	DAY	864.000	864.000
0054	643.0900	Traffic Control Signs	DAY	216.000	216.000
0056	643.5000	Traffic Control	EACH	1.000	1.000
0058	645.0130	Geotextile Type R	SY	1,180.000	1,180.000
0060	650.5000	Construction Staking Base	LF	935.000	935.000
0062	650.9910	Construction Staking Supplemental Control (project) 01. 7110-00-72	LS	1.000	1.000
0064	650.9920	Construction Staking Slope Stakes	LF	935.000	935.000
0066	SPV.0090	Special 01. Heavy Duty Silt Fence	LF	190.000	190.000

3

GRUBBING

STATION - STATION	LOCATION	201.01205 STA
10+25 - 19+60	LT	10
ITEAM TOTAL		10

REMOVING SMALL PIPE CULVERTS

STATION-STATION	LOCATION	203.0100 EACH	REMARKS
10+25	LT	2	24"X38" APRON ENDWALLS ONLY
SEDIMENT BASIN		3	24" CPCS & ENDWALLS
ITEM TOTAL		5	

BASE AGGREGATE DENSE 3/4-INCH

STATION - STATION	LOCATION	305.0110 TON	REMARKS
10+25 - 19+60	LT & RT	770	SERVICE ROAD
ITEM TOTAL		770	

3

CLEANING CULVERT PIPES

STATION-STATION	LOCATION	520.8700 EACH	REMARKS
10+00	LT	2	24"X38" ELLIPTICAL PIPES UNDER STH 37
ITEM TOTAL		2	

APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH

STATION-STATION	LOCATION	523.0524 EACH	REMARKS
10+25	LT	2	EXISTING PIPES TO REMAIN, 2 JOINT TIES* REQUIRED FOR EACH AEW
ITEM TOTAL		2	

* JOINT TIES ARE INCIDENTAL TO AEW'S

EARTHWORK SUMMARY

STATION - STATION	LOCATION	(1) 205.0100 EXCAVATION COMMON CY	(2) SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	(3) AVAILABLE MATERIAL CY	UNEXPANDED FILL CY	(4) EXPANDED FILL CY	(5) 208.0100 BORROW CY	(6) MASS ORDINATE CY	WASTE CY	REMARKS
10+40 - 17+50	SERVICE ROAD	1454	0	1454	1142	1485	0	-31	-31	
WASTE PILE		568	0	568	0	0	0	568	568	
SEDIMENT BASIN		6641	0	6641	292	380	0	6261	6261	
ITEM TOTAL		8663	0	8663	1434	1865	0	6799	6799	

(1) EXCAVATION COMMON, ITEM NUMBER 205.0100, IS THE TOTAL VOLUME OF CUT AND INCLUDES THE UNUSABLE PAVEMENT MATERIAL.
(2) SALVAGED/UNUSABLE MATERIAL IS INCLUDED IN THE EXCAVATION COMMON
(3) AVAILABLE MATERIAL = EXCAVATION COMMON - UNUSABLE PAVEMENT MATERIAL.
(4) EXPANDED FILL FACTOR = 1.30
(5) BORROW MATERIAL.
(6) THE MASS ORDINATE + OR - QTY FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL AND A MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
THE MASS ORDINATE = EXCAVATION COMMON - UNUSABLE PAVEMENT MATERIAL - EXPANDED FILL.

PIPE UNDERDRAIN WRAPPED 6-INCH

STATION - STATION	LOCATION	612.0406 LF	REMARKS
14+75 - 17+75	RT	20	EXISTING UNDERDRAIN EXTENSIONS
14+25 - 14+75	RT	70	NEW UNDERDRAIN ALONG RIGHT SIDE
ITEM TOTAL		90	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010 UNLESS OTHERWISE NOTED.

3

EROSION CONTROL ITEMS

STATION - STATION	LOCATION	606.0200 RIPRAP LIGHT CY	625.0100 TOPSOIL SY	628.1905 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.2027 EROSION MAT CLASS II TYPE C SY	627.0200 MULCHING SY	645.0130 GEOTEXTILE TYPE R SY	SPV.0090.01 HEAVY DUTY SILT FENCE LF
WASTE PILE				258	258						190
10+25 - 19+60	LT & RT	395	8328	718	718	24	12	6245	1802	1180	
UNDISTRIBUTED				244	244				451		
ITEM TOTAL		395	8328	1220	1220	24	12	6245	2253	1180	190

WATER

STATION - STATION	LOCATION	624.0100 MGAL	REMARKS
10+25 - 19+60	LT & RT	15	SERVICE ROAD
ITEM TOTAL		15	

3

MOBILIZATIONS EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT CORRIDOR		4	2
ITEM TOTAL		4	2

TRAFFIC CONTROL

STATION - STATION	LOCATION	643.0300 DRUMS DAY	643.0900 SIGNS DAY
PROJECT CORRIDOR		864	216
ITEM TOTAL		864	216

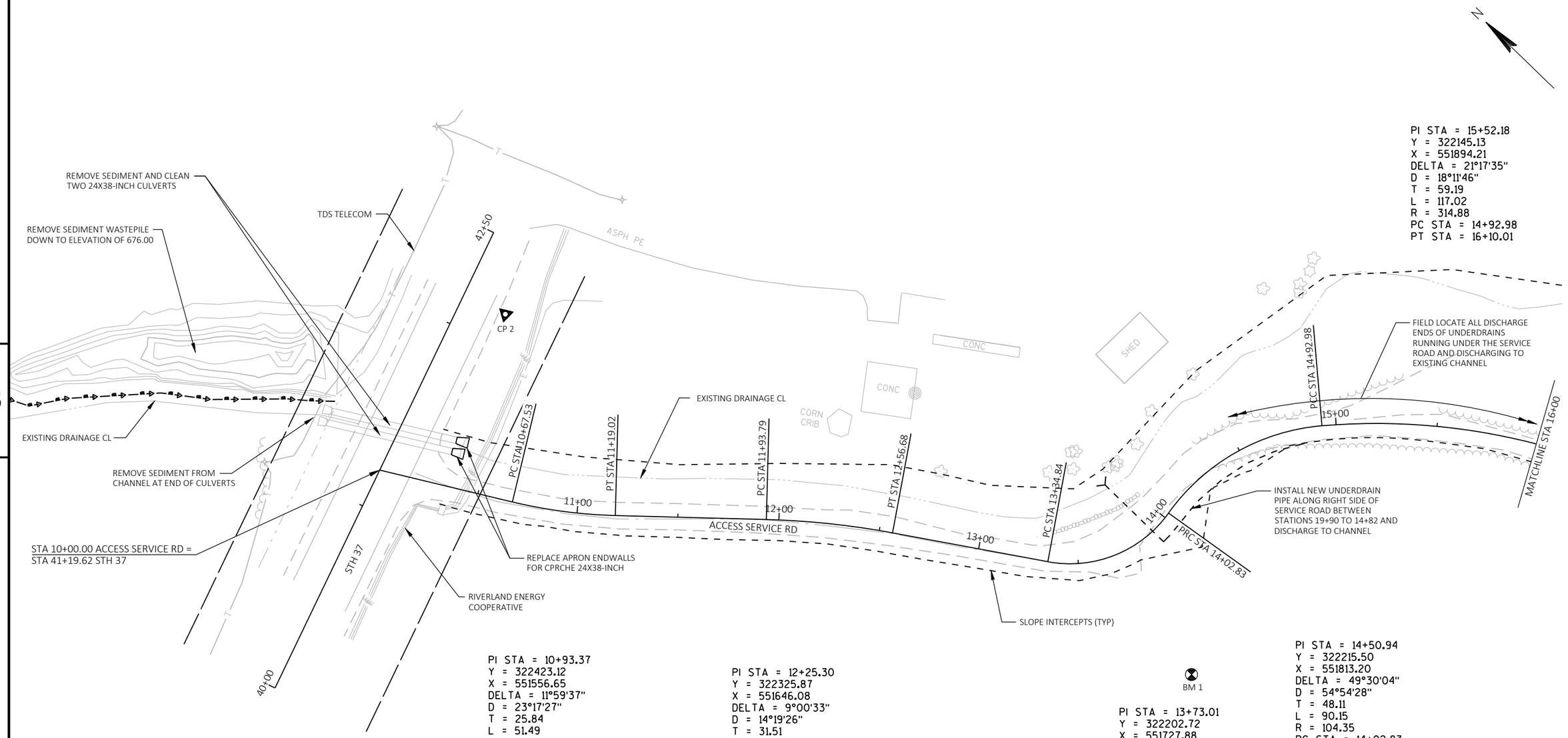
SEEDING AND FERTILIZER ITEMS

STATION - STATION	LOCATION	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0160 SEEDING MIXTURE NO. 60 LB
WASTE PILE		0.4		9
10+25 - 17+50 & SEDIMENT BASIN		4.8	208	
UNDISTRIBUTED		1.3	52	2
ITEM TOTAL		6.5	260	11

CONSTRUCTION STAKING

STATION - STATION	LOCATION	650.5000 BASE LF	650.9910 SUPPLEMENTAL CONTROL 01. 7110-00-72 LS	650.9920 SLOPE STAKES LF	REMARKS
10+25 - 19+60	LT & RT	935	1	935	INCLUDES WASTE PILE AND SEDIMENT BASIN
ITEM TOTAL		935	1	935	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010 UNLESS OTHERWISE NOTED.



PI STA = 15+52.18
Y = 322145.13
X = 551894.21
DELTA = 21°17'35"
D = 18°11'46"
T = 59.19
L = 117.02
R = 314.88
PC STA = 14+92.98
PT STA = 16+10.01

PI STA = 10+93.37
Y = 322423.12
X = 551556.65
DELTA = 11°59'37"
D = 23°17'27"
T = 25.84
L = 51.49
R = 246.00
PC STA = 10+67.53
PT STA = 11+19.02

PI STA = 12+25.30
Y = 322325.87
X = 551646.08
DELTA = 9°00'33"
D = 14°19'26"
T = 31.51
L = 62.90
R = 400.00
PC STA = 11+93.79
PT STA = 12+56.68

BM 1

PI STA = 13+73.01
Y = 322202.72
X = 551727.88
DELTA = 64°55'28"
D = 95°29'35"
T = 38.17
L = 67.99
R = 60.00
PC STA = 13+34.84
PT STA = 14+02.83

PI STA = 14+50.94
Y = 322215.50
X = 551813.20
DELTA = 49°30'04"
D = 54°54'28"
T = 48.11
L = 90.15
R = 104.35
PC STA = 14+02.83
PT STA = 14+92.98

BENCHMARK TABLE

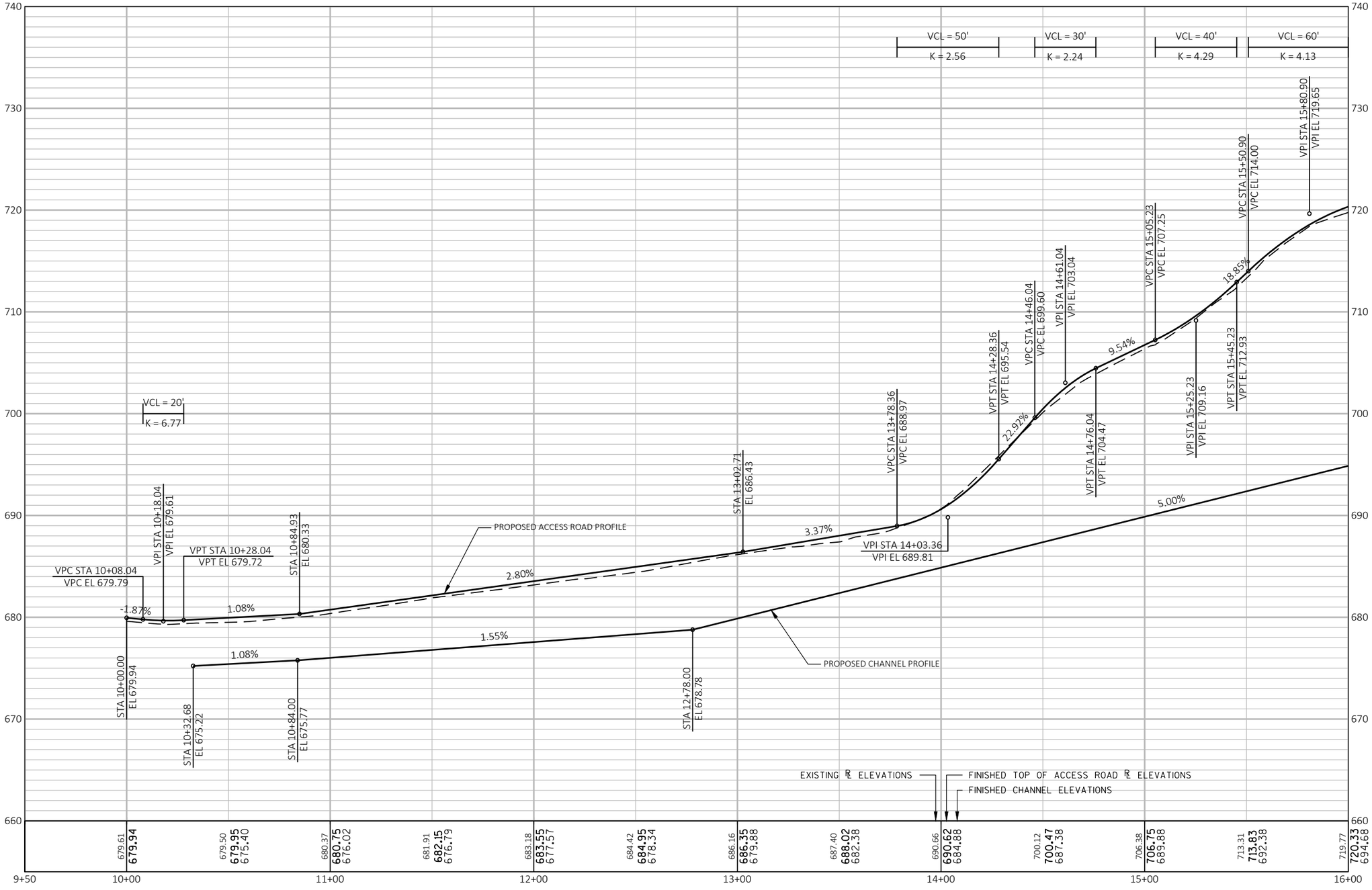
NO.	STATION	DESCRIPTION	ELEVATION
BM 1	13+70.45, 73.10' RT	RR SPIKE IN 10" TREE.	694.20
BM 2	18+43.24, 125.13' LT	RR SPIKE IN 10" TREE.	742.75

CONTROL POINT TABLE

POINT	ELEVATION	COORDINATES
CP 1	738.06	Y= 321994.421 X= 552092.991
CP 2	678.84	Y= 322512.527 X= 551607.759
CP 3	738.19	Y= 321946.524 X= 552289.657
CP 4	742.14	Y= 321818.030 X= 552194.458

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	PLAN	SHEET 11	E

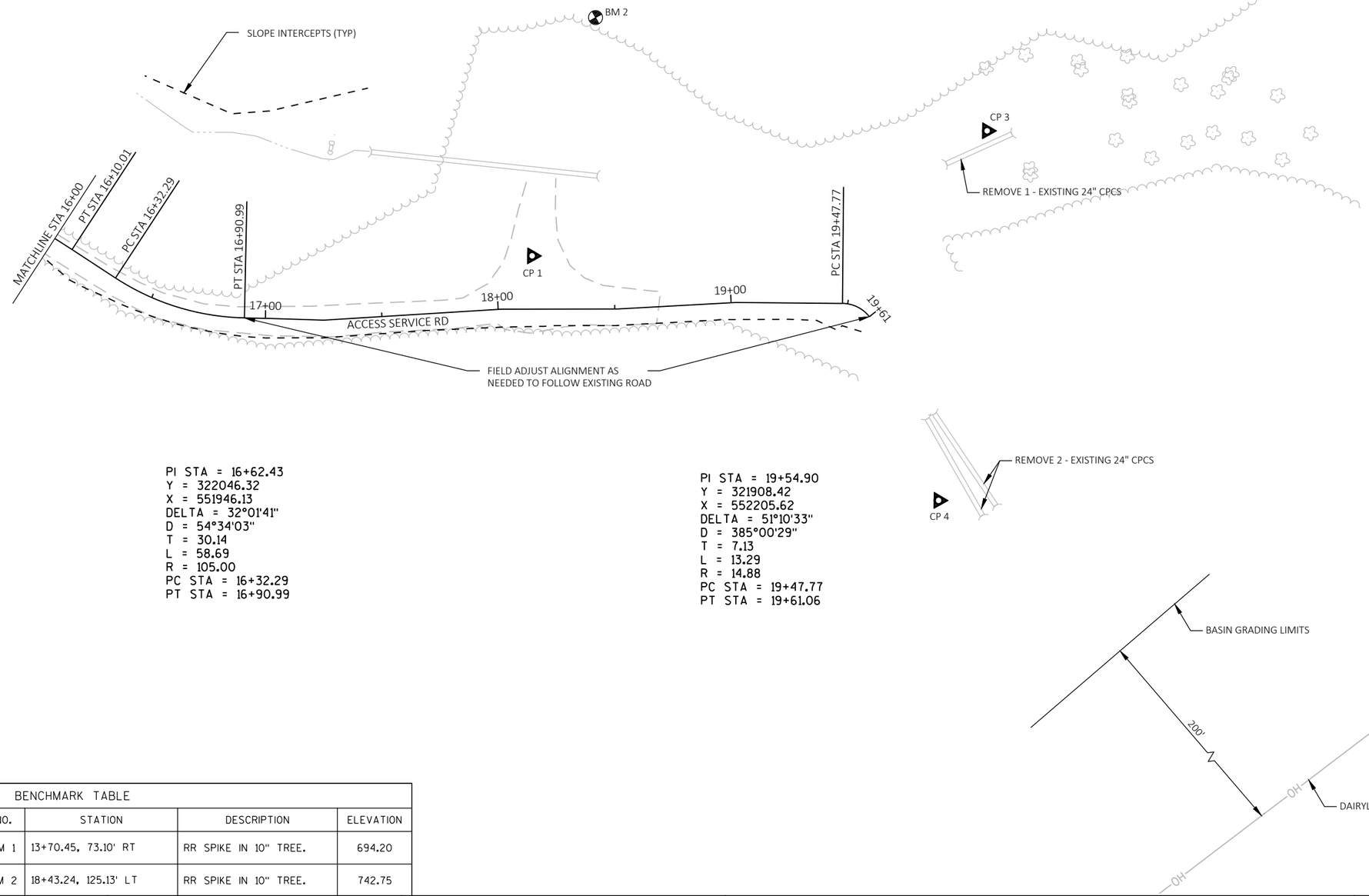
FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\PPSTH37.DWG
SHEET NAME: PPSTH3701



PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	PROFILE	SHEET 12	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\PPSTH37.DWG

SHEET NAME: PPSTH3702

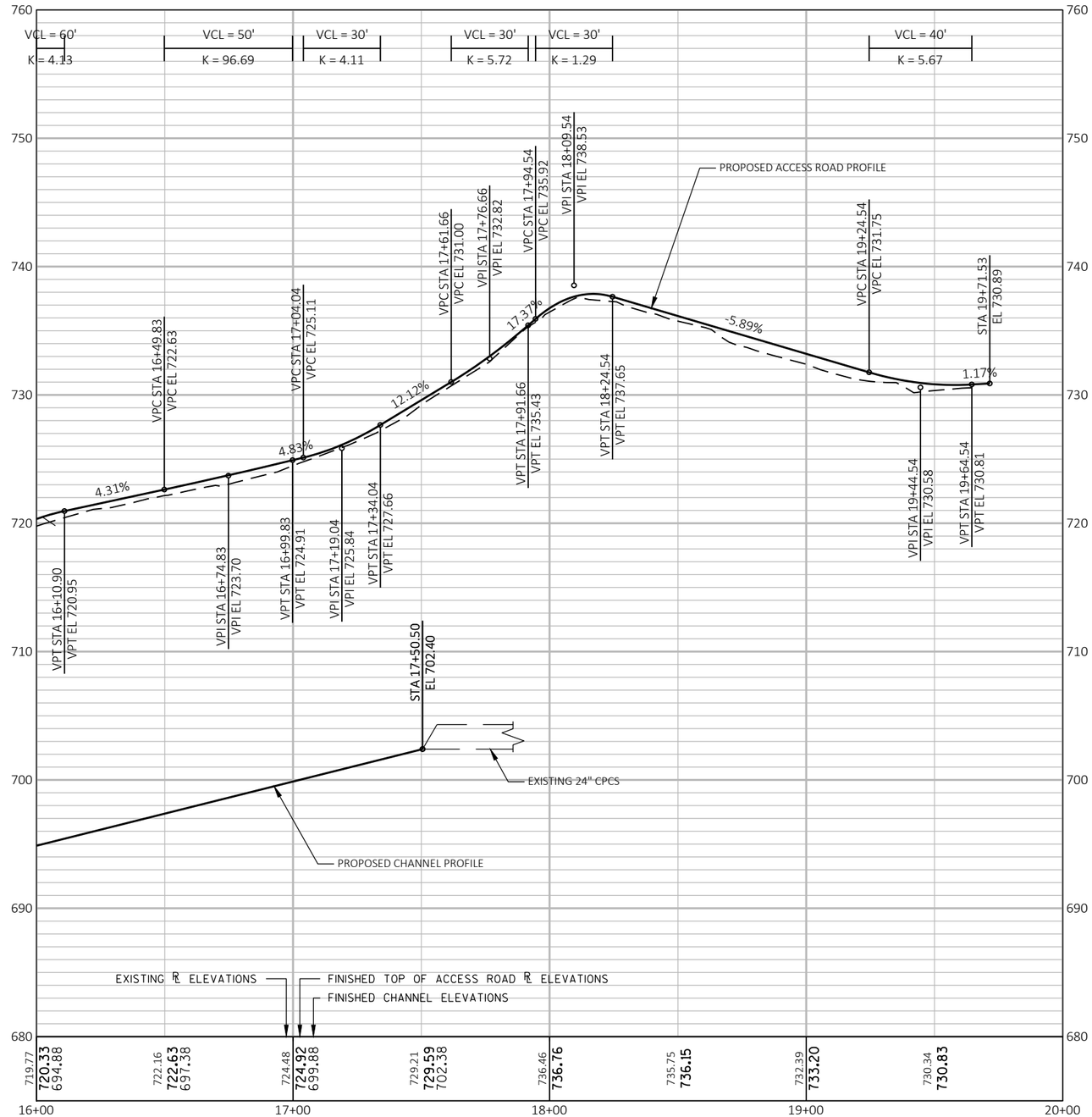


PI STA = 16+62.43
Y = 322046.32
X = 551946.13
DELTA = 32°01'41"
D = 54°34'03"
T = 30.14
L = 58.69
R = 105.00
PC STA = 16+32.29
PT STA = 16+90.99

PI STA = 19+54.90
Y = 321908.42
X = 552205.62
DELTA = 51°10'33"
D = 385°00'29"
T = 7.13
L = 13.29
R = 14.88
PC STA = 19+47.77
PT STA = 19+61.06

CONTROL POINT TABLE		
POINT	ELEVATION	COORDINATES
CP 1	738.06	Y= 321994.421 X= 552092.991
CP 2	678.84	Y= 322512.527 X= 551607.759
CP 3	738.19	Y= 321946.524 X= 552289.657
CP 4	742.14	Y= 321818.030 X= 552194.458

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
BM 1	13+70.45, 73.10' RT	RR SPIKE IN 10" TREE.	694.20
BM 2	18+43.24, 125.13' LT	RR SPIKE IN 10" TREE.	742.75



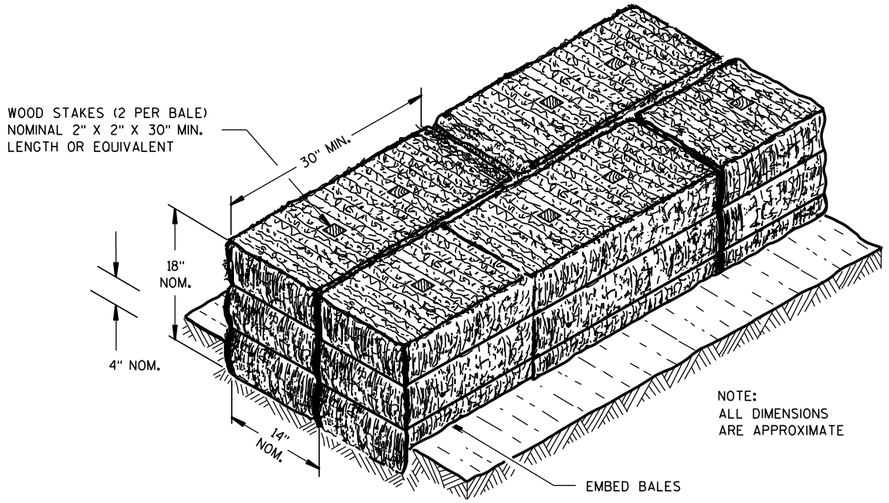
PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	PROFILE	SHEET 14	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\PPSTH37.DWG

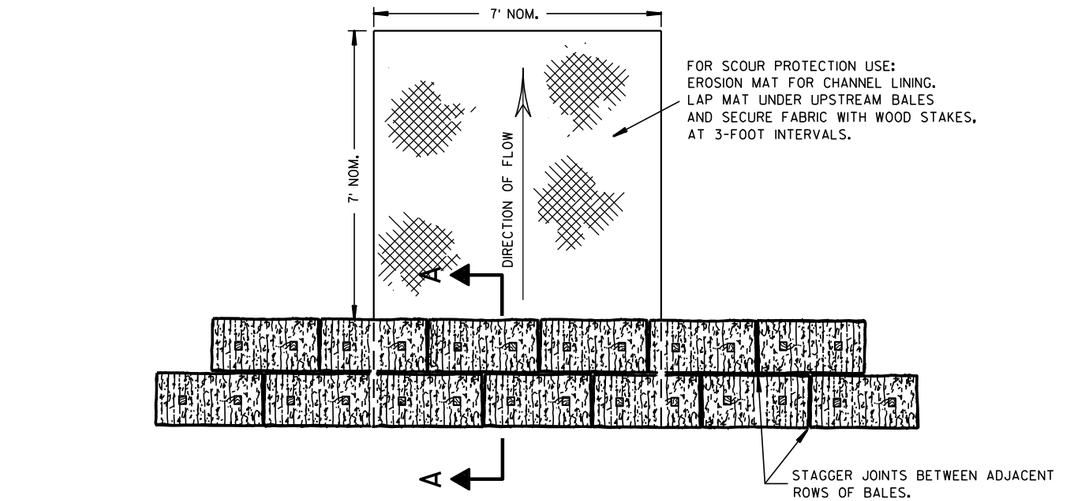
SHEET NAME: PPSTH3704

Standard Detail Drawing List

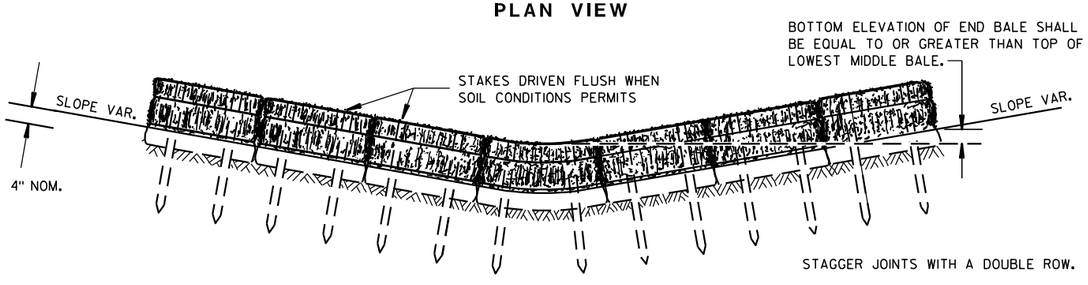
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



SECTION A-A



PLAN VIEW



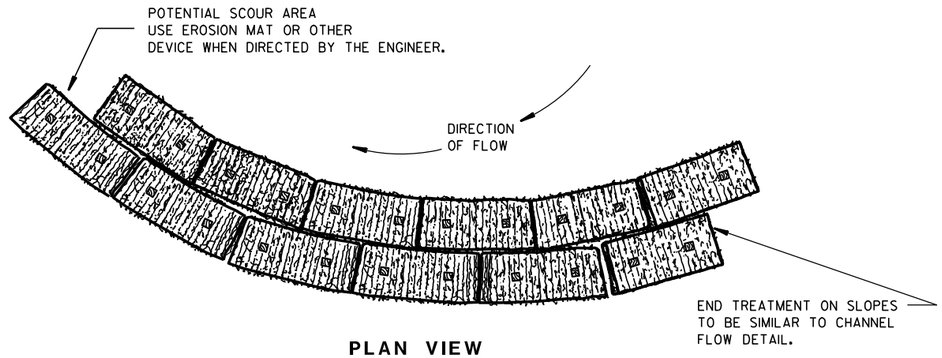
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

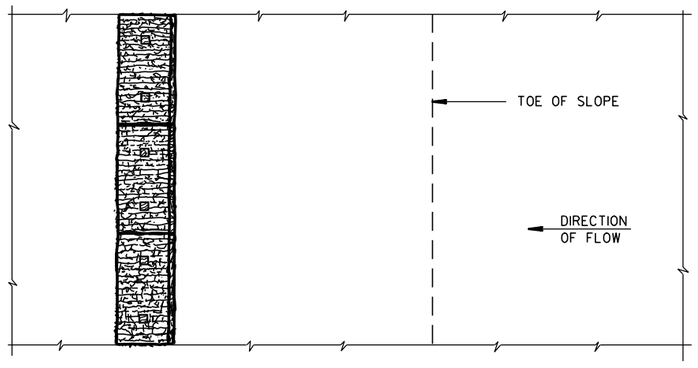
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) 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.

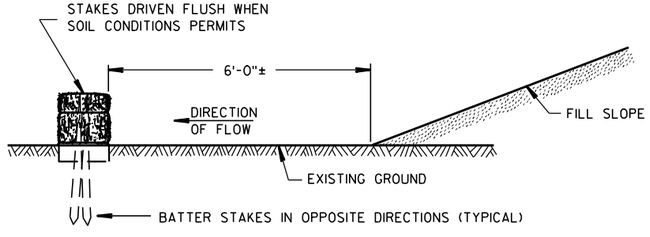


PLAN VIEW

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 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

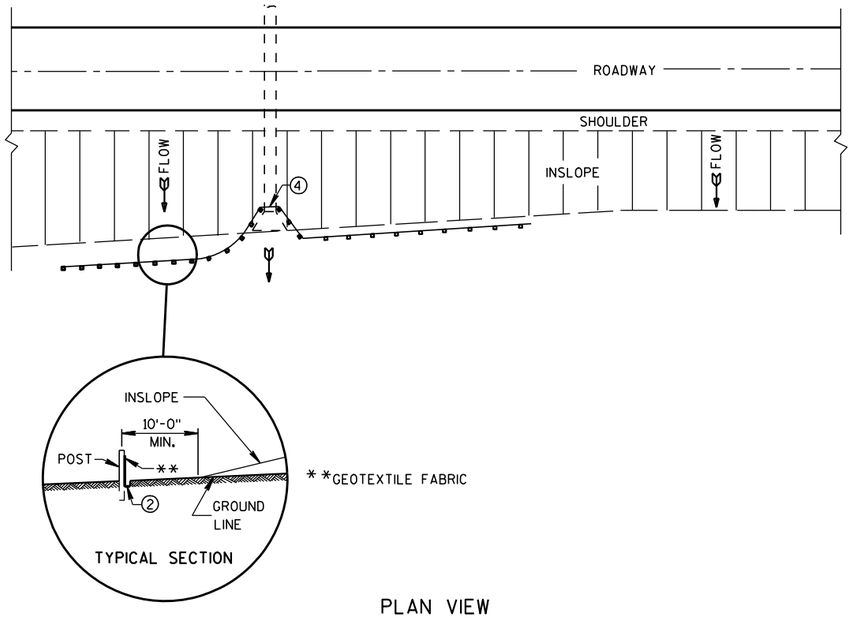
FHWA

6

S.D.D. 8 E 8-3

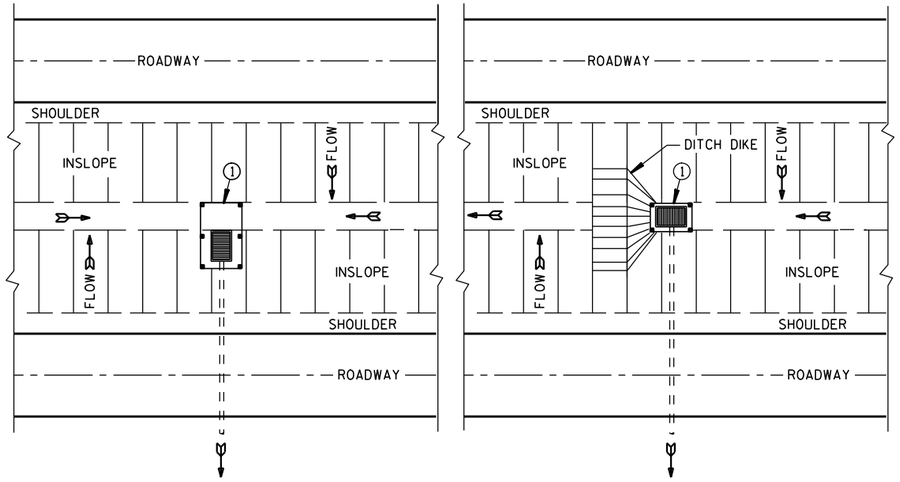
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

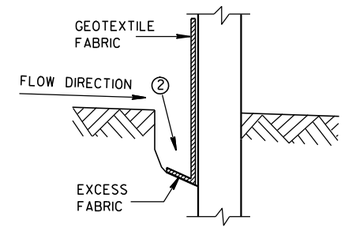
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

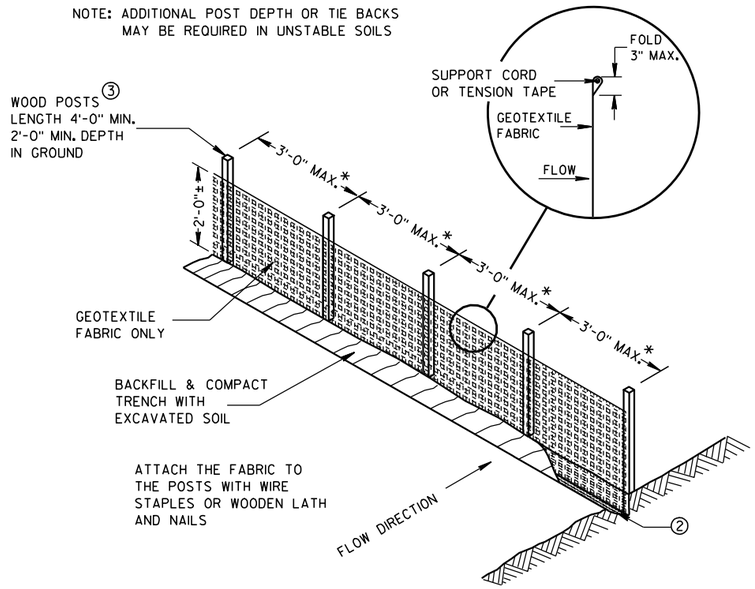
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

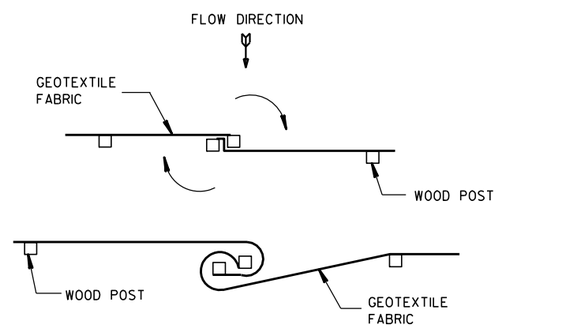
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



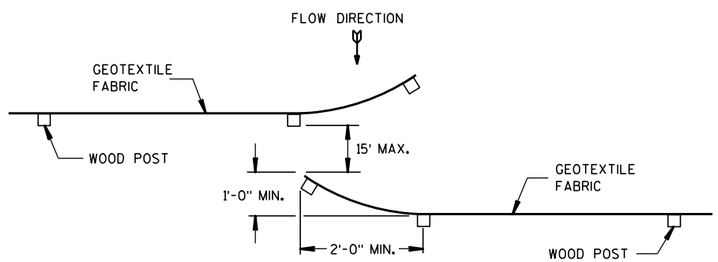
TRENCH DETAIL



SILT FENCE

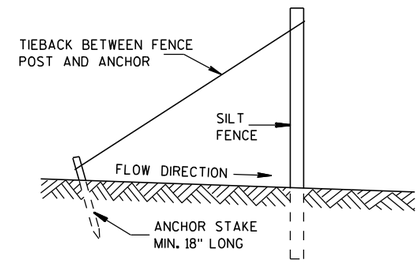


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

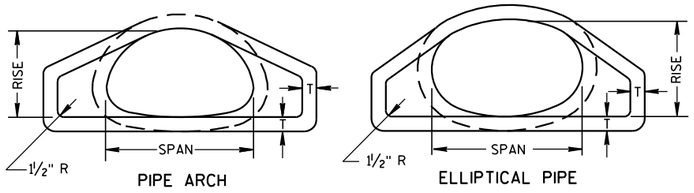
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

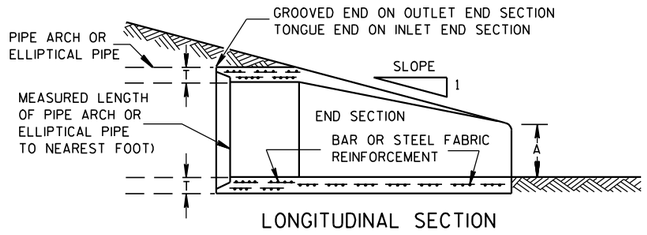
S.D.D. 8 E 9-6

6

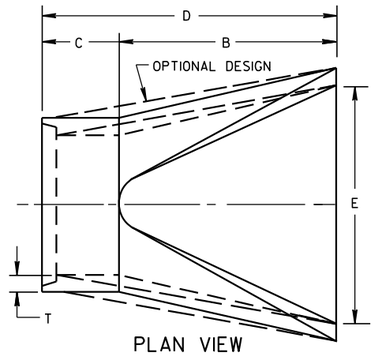
S.D.D. 8 E 9-6



END VIEW

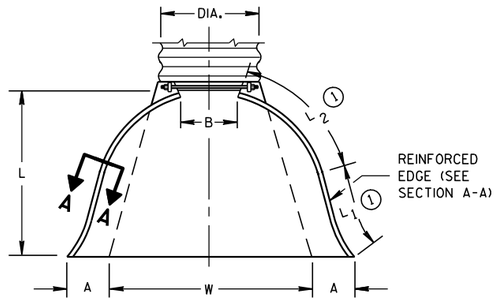


LONGITUDINAL SECTION

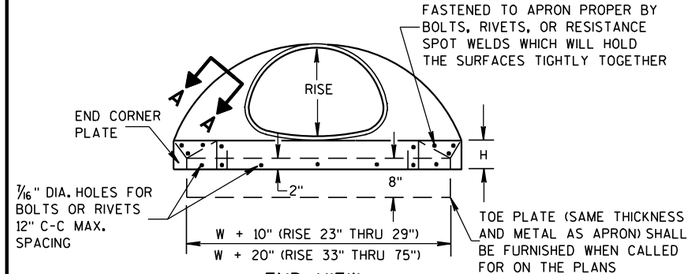


PLAN VIEW

CONCRETE ENDWALLS

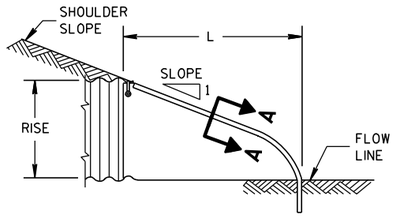


PLAN VIEW



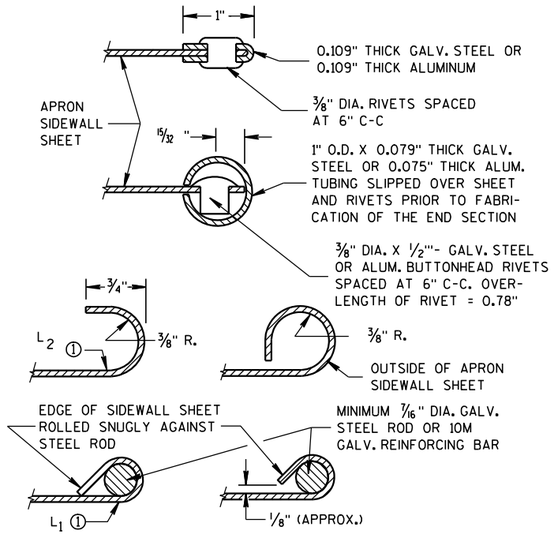
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

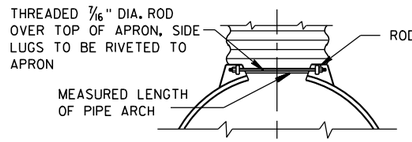
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

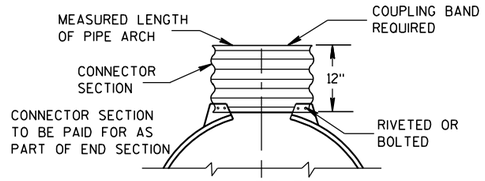
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



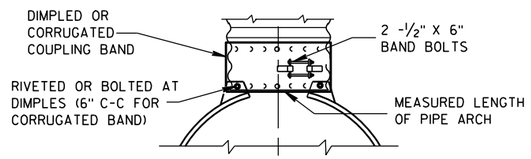
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

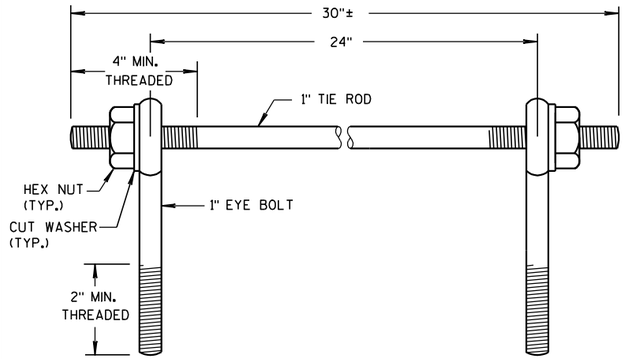
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

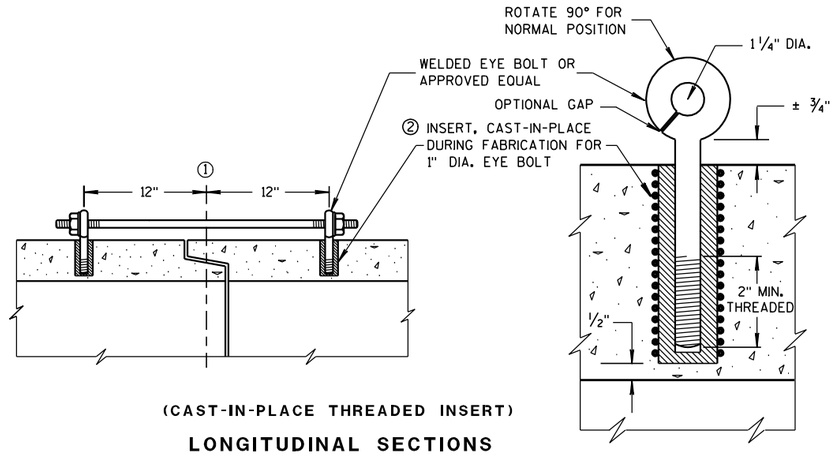
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

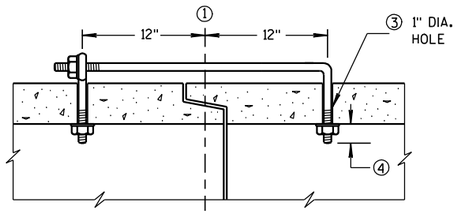
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

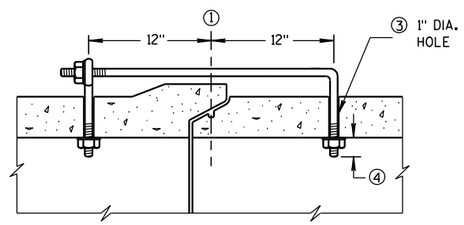
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

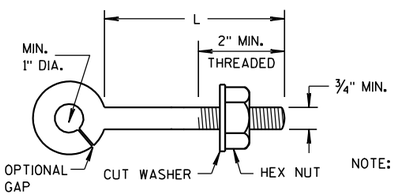


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

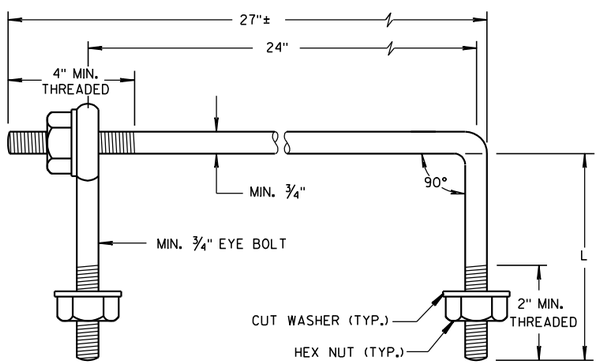
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

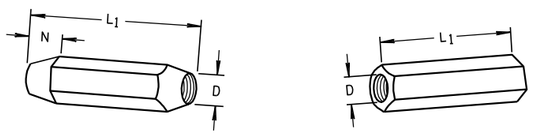
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

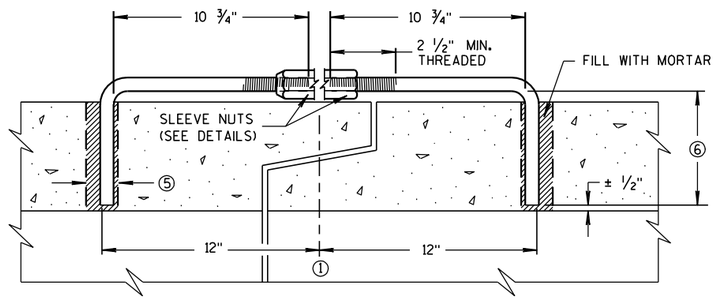
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

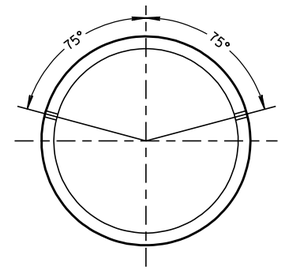
SLEEVE NUTS



LONGITUDINAL SECTION

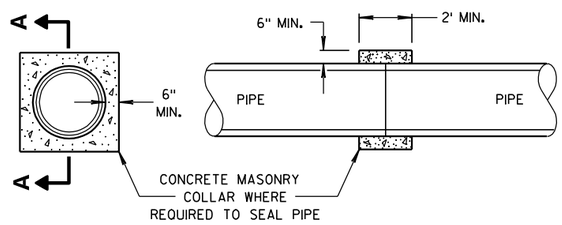
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

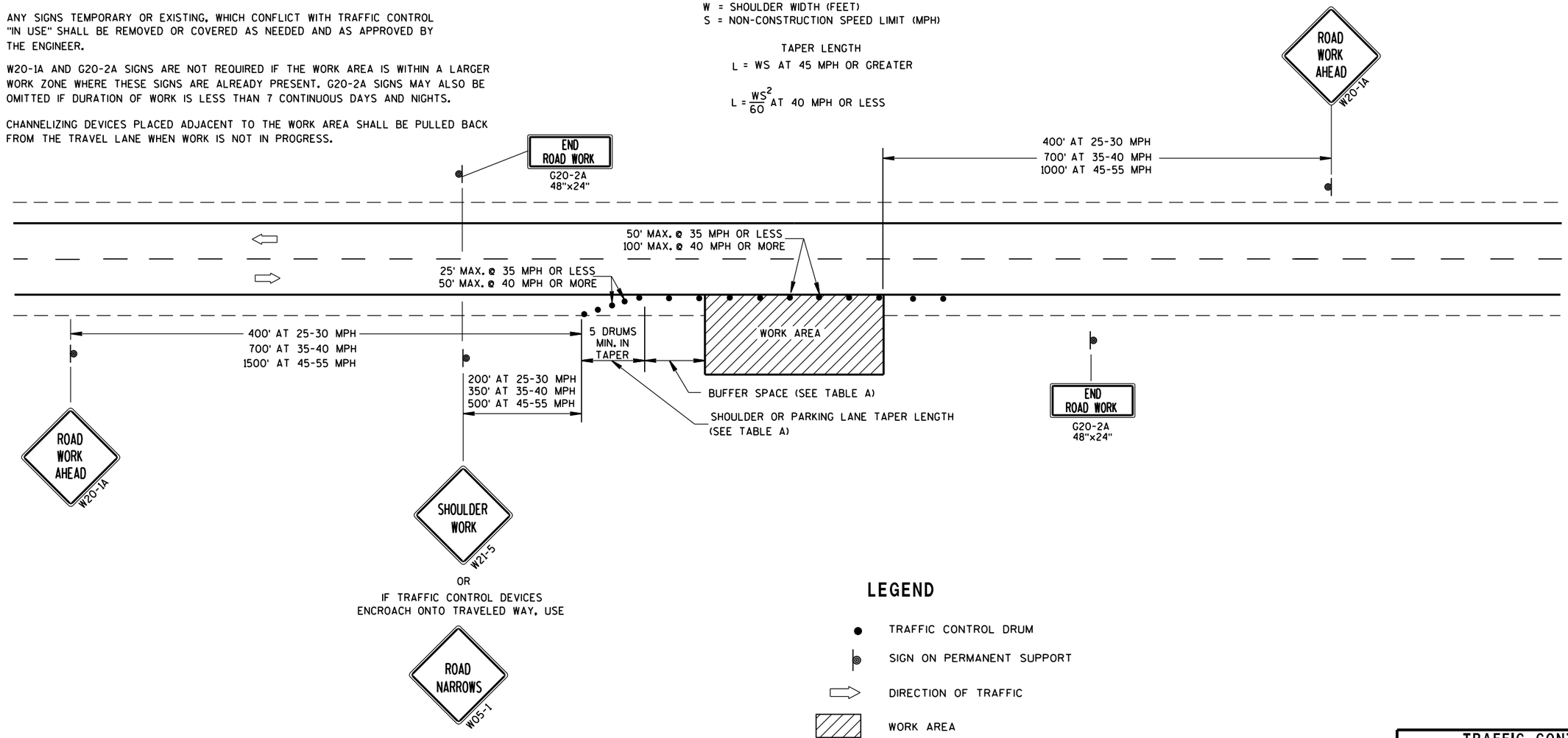
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO... SAFETY ENGI... FIC

FHWA

6

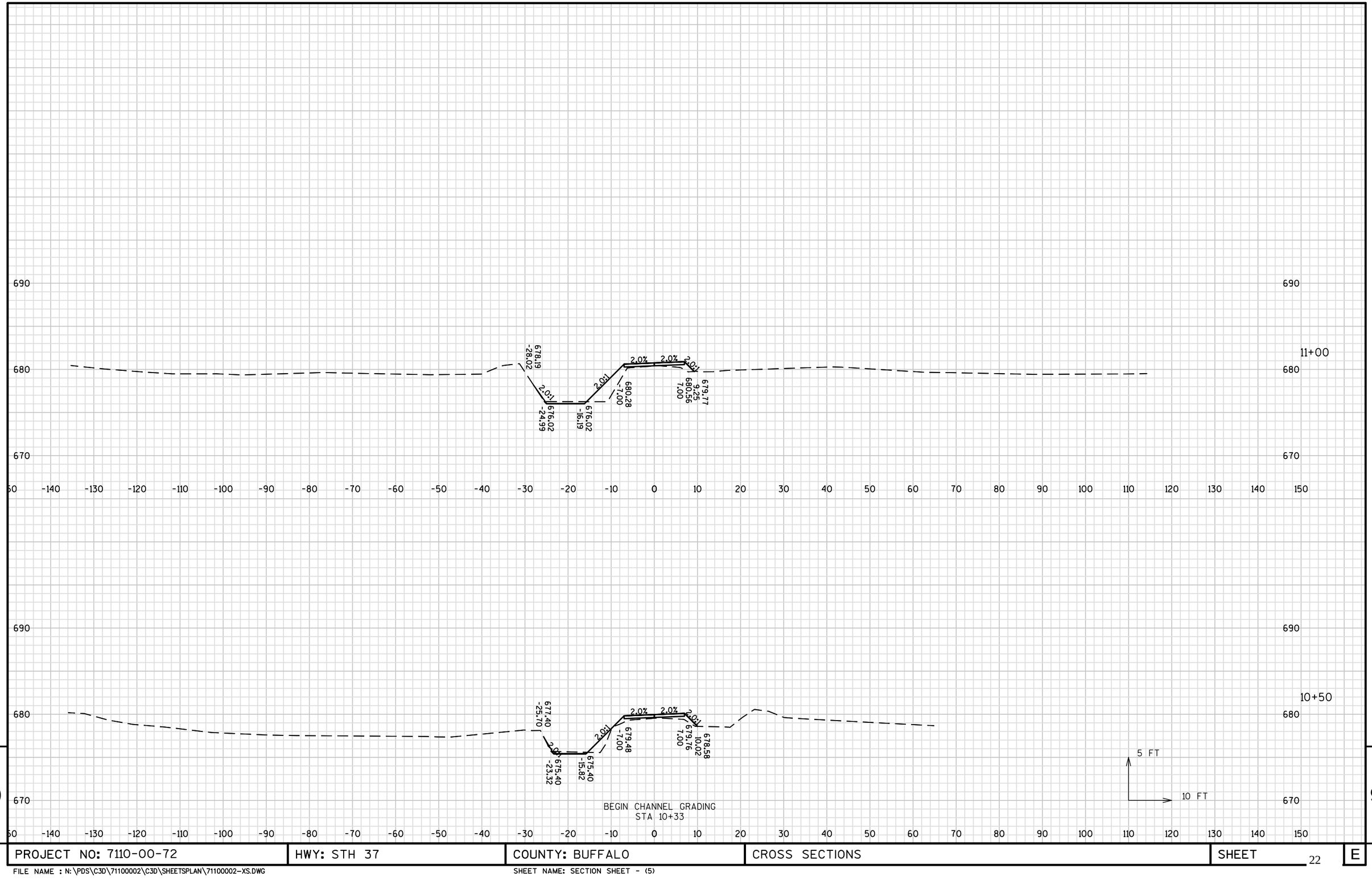
S.D.D. 15 D 28-3

	AREA (SF)		Incremental Vol (CY) (Unadj)		Cumulative Vol (CY)	
STATION	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.30
10+40	1.8	11.8	0	0	0	0
10+50	1.8	11.8	1	4	1	6
11+00	2.3	18.2	4	28	4	42
11+50	0.2	17.8	2	33	7	85
12+00	5.8	9.4	6	25	12	118
12+50	19.2	12.8	23	21	35	145
13+00	16.4	28.6	33	38	68	195
13+50	43.7	11.2	56	37	124	243
14+00	63.5	16.8	99	26	223	276
14+50	33.6	11.8	90	27	313	311
15+00	105.8	69.8	129	76	442	409
15+50	132.7	99.5	221	157	663	613
16+00	78.0	169.1	195	249	858	936
16+50	155.8	62.5	217	214	1,075	1,215
17+00	127.1	81.0	262	133	1,337	1,388
17+50	0.0	0.0	118	75	1,454	1,485
WASTE PILE			568	0	2,022	1,485
SEDIMENT BASIN			6,641	292	8,663	1,865

9

9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	EARTHWORK	SHEET 21	E



PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 22	E

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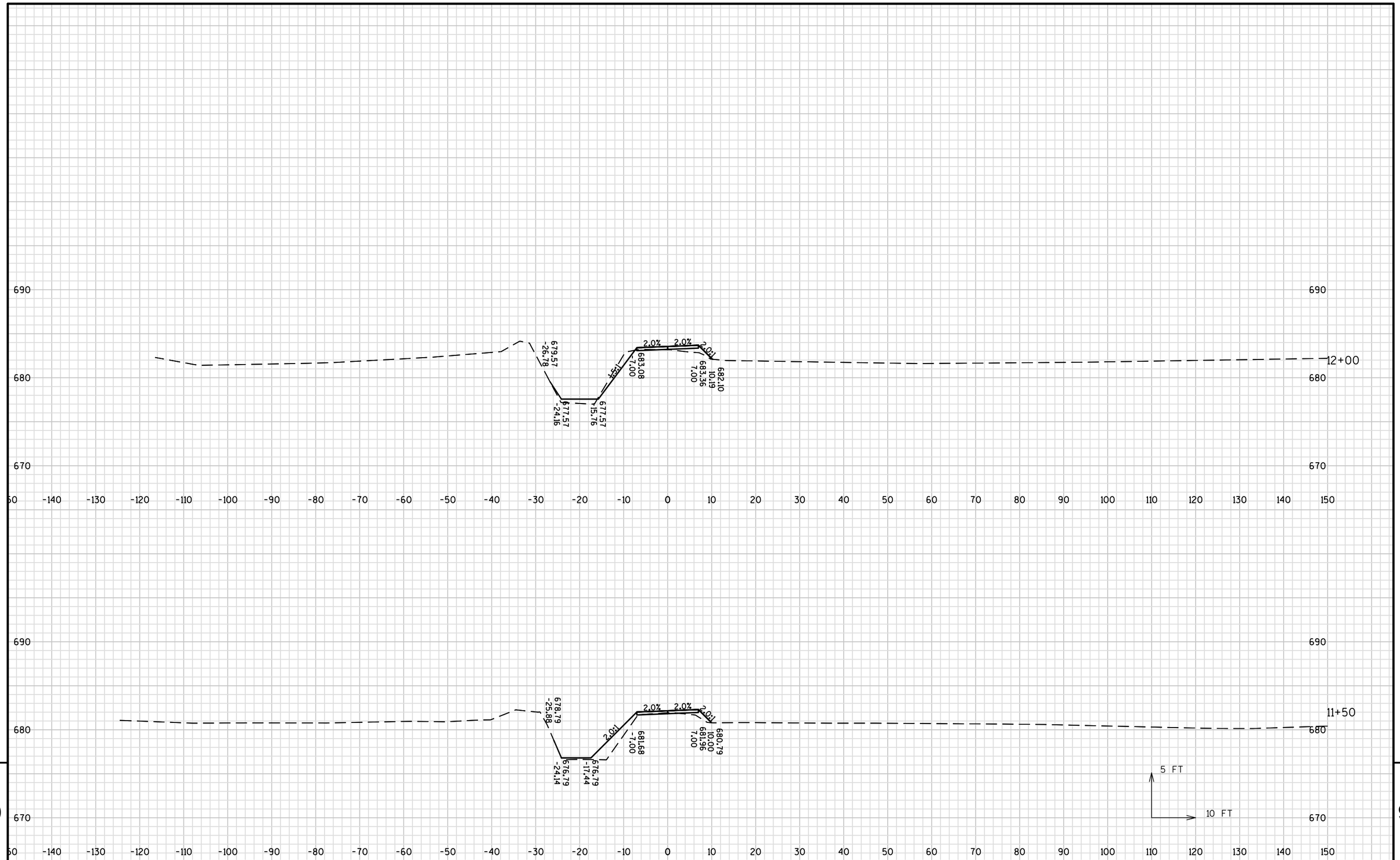
SHEET NAME: SECTION SHEET - (5)

9

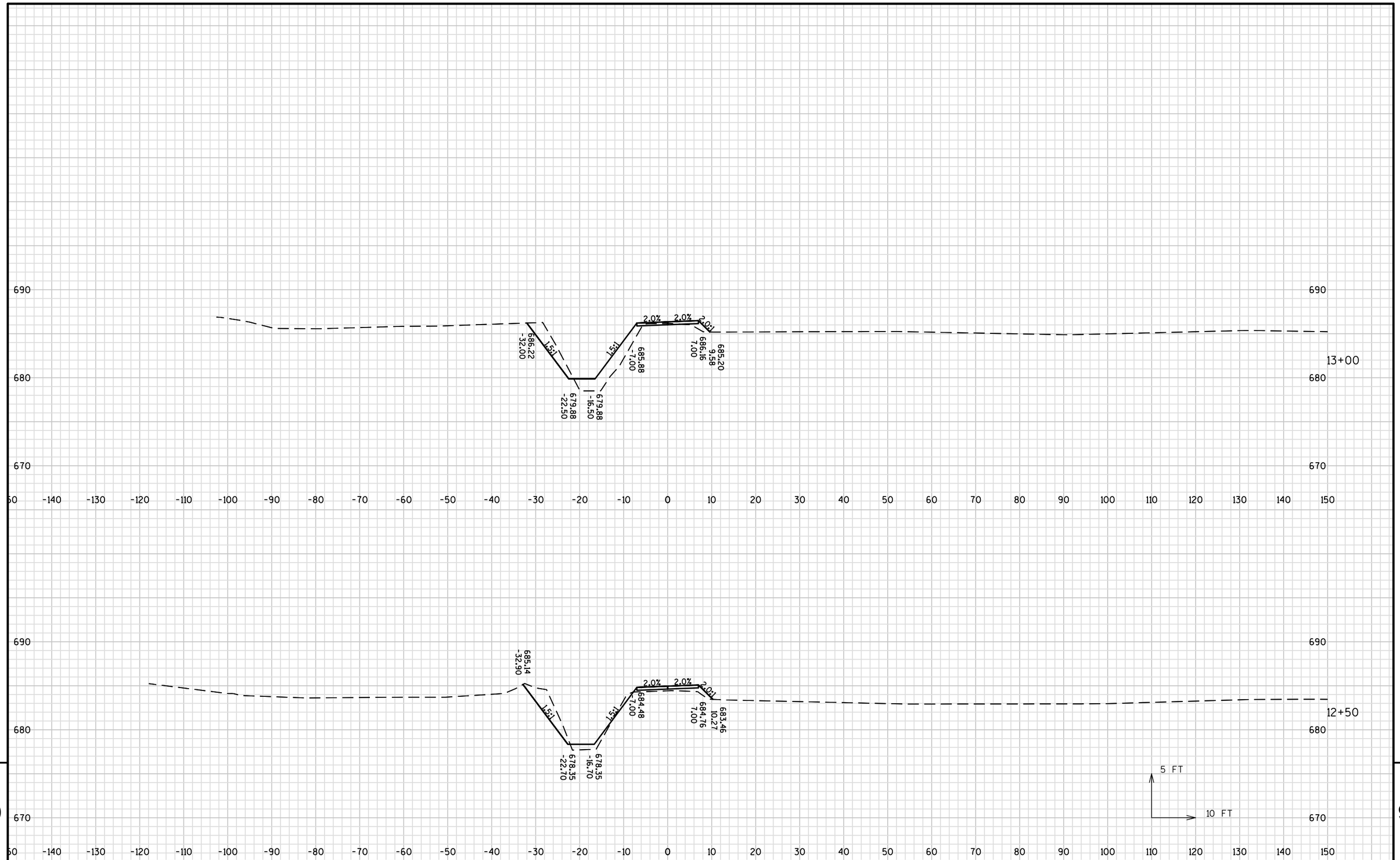
9



9	PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 23 E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (6)



PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 24	E

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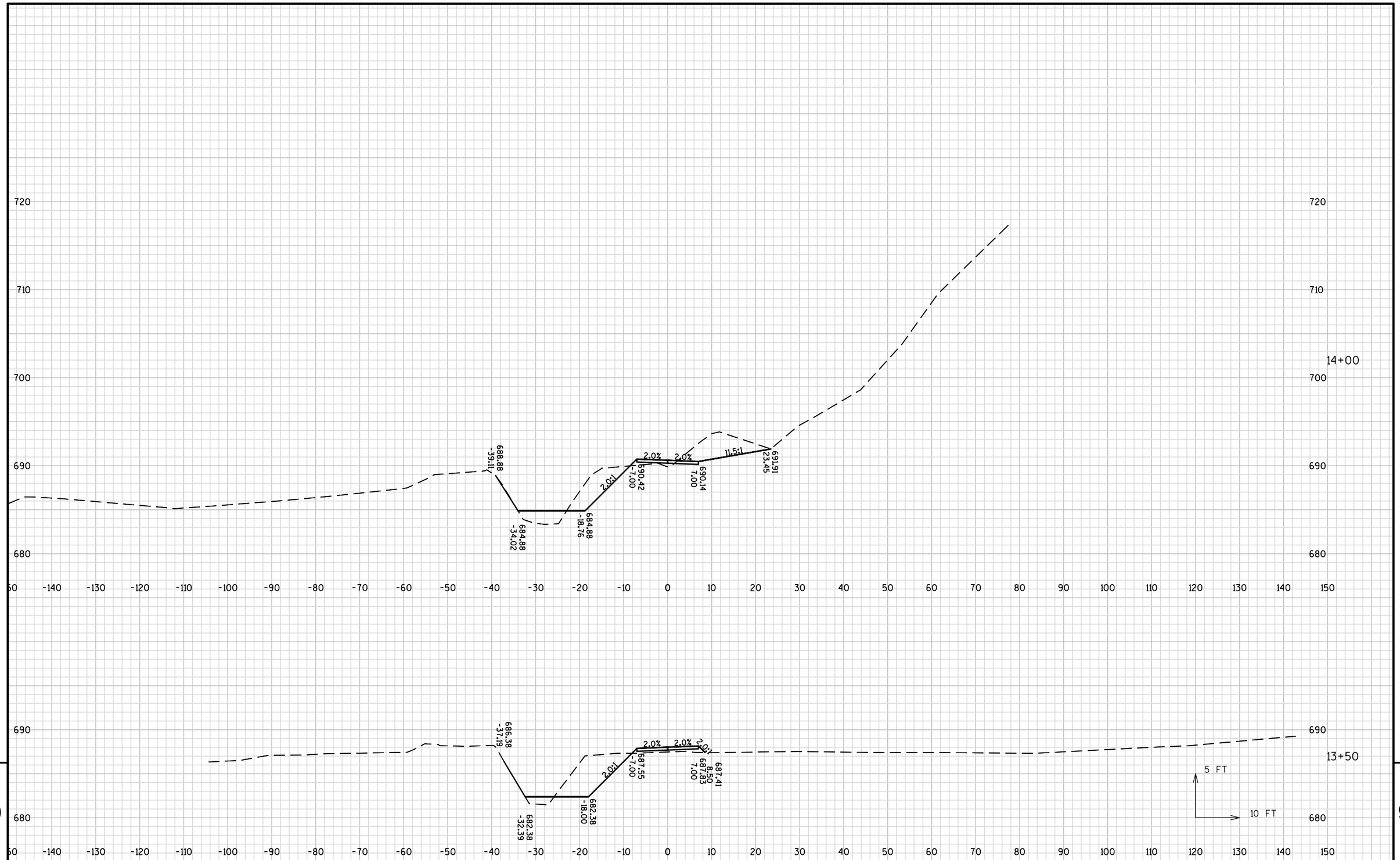
SHEET NAME: SECTION SHEET - (7)



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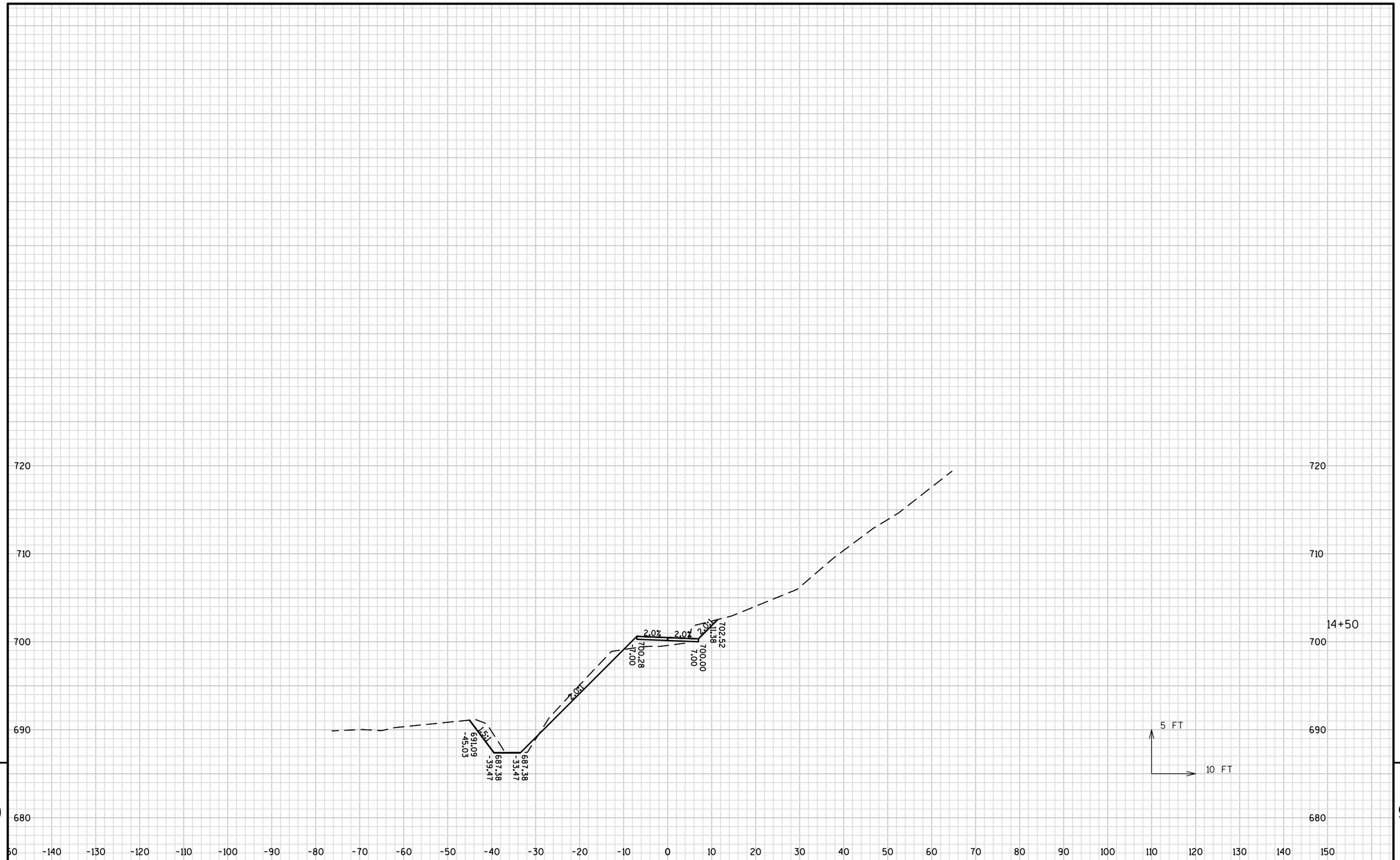
PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 25	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (8)



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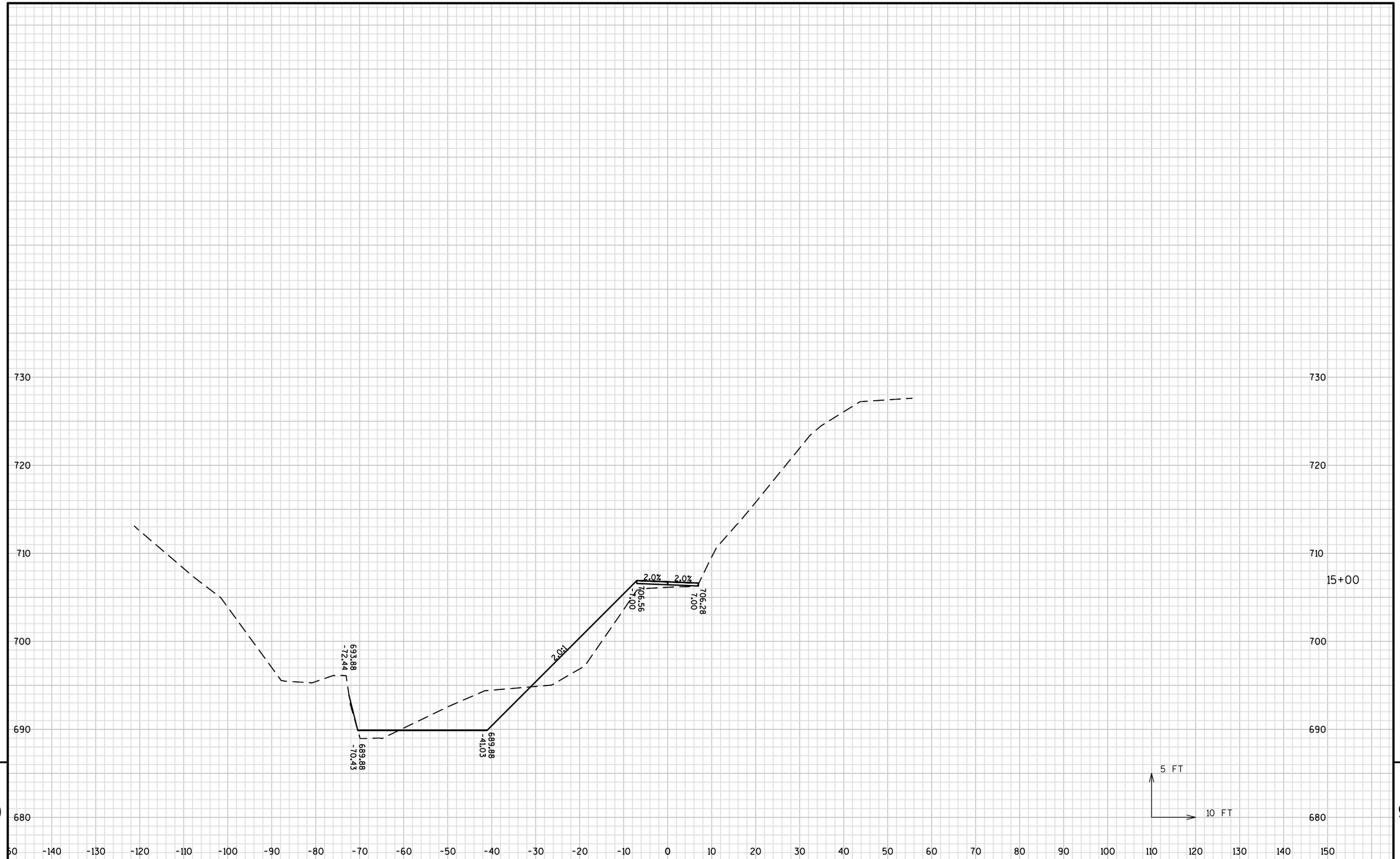
PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 26	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (9)



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9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 27	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (10)

740
730
720
710
700
690
680

696.37
-77.93
692.38
-73.61
692.37
-50.19
2.0:1
715.64
-7.00
2.0%
2.0%
2.0:1
714.10
7.82
715.36
7.00
15+50

5 FT
10 FT

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 28	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (11)

750
740
730
720
710
700
690

2.0%
2.0%
2.0%
2.0:1
2.0:1
720.14
-7.00
721.06
-8.74
719.86
7.00
698.87
-80.68
694.87
-74.90
694.87
-58.20
16+00

5 FT
10 FT

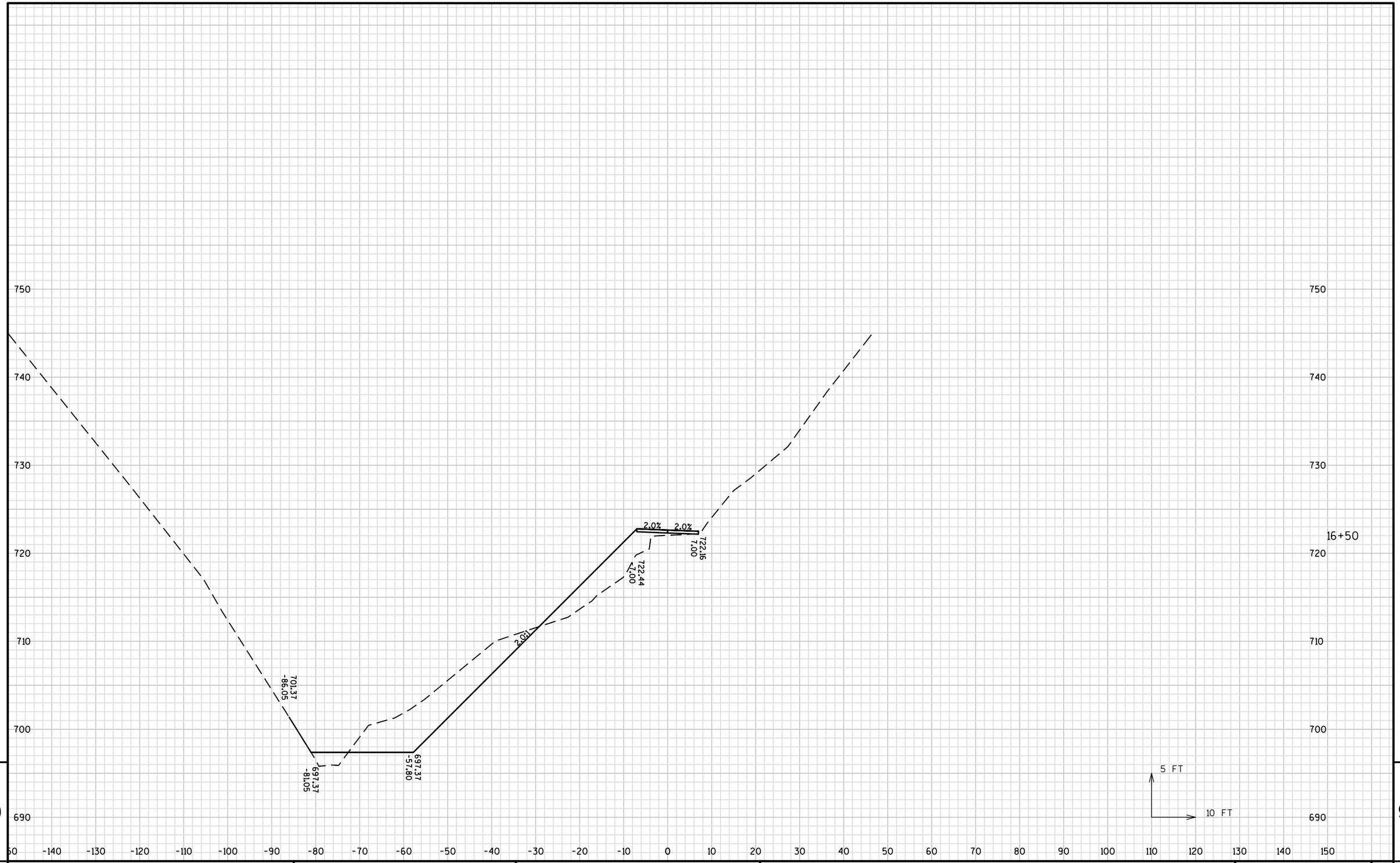
-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 29	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (12)



9

9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 30	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (13)

750
740
730
720
710
700
690

703.87
-88.84
699.87
-83.09
699.87
-57.39
724.73
-7.00
724.45
7.00
725.59
8.63
2.0%
2.0%
2.0%
2.0%

17+00

5 FT
10 FT

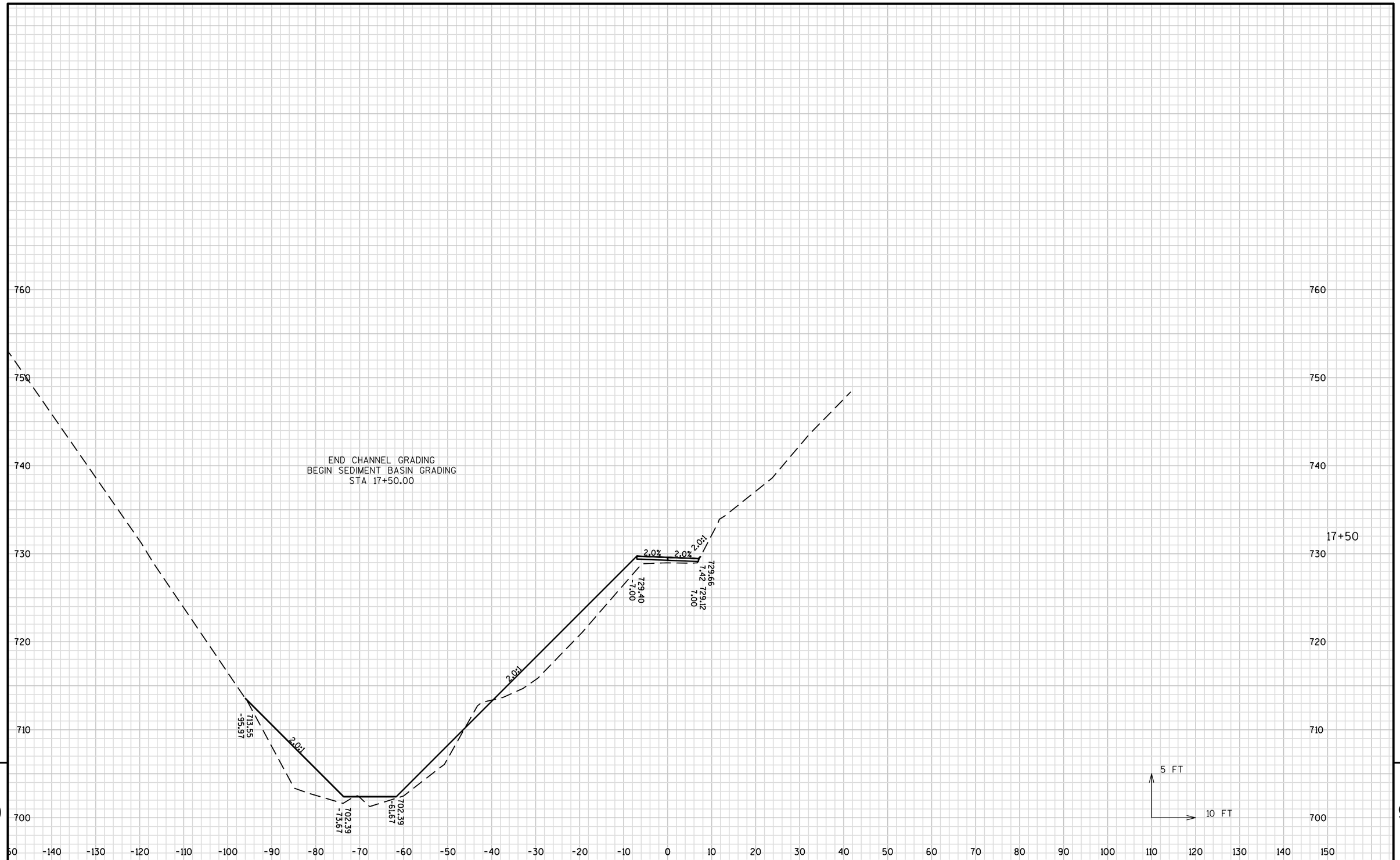
-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 31	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (14)

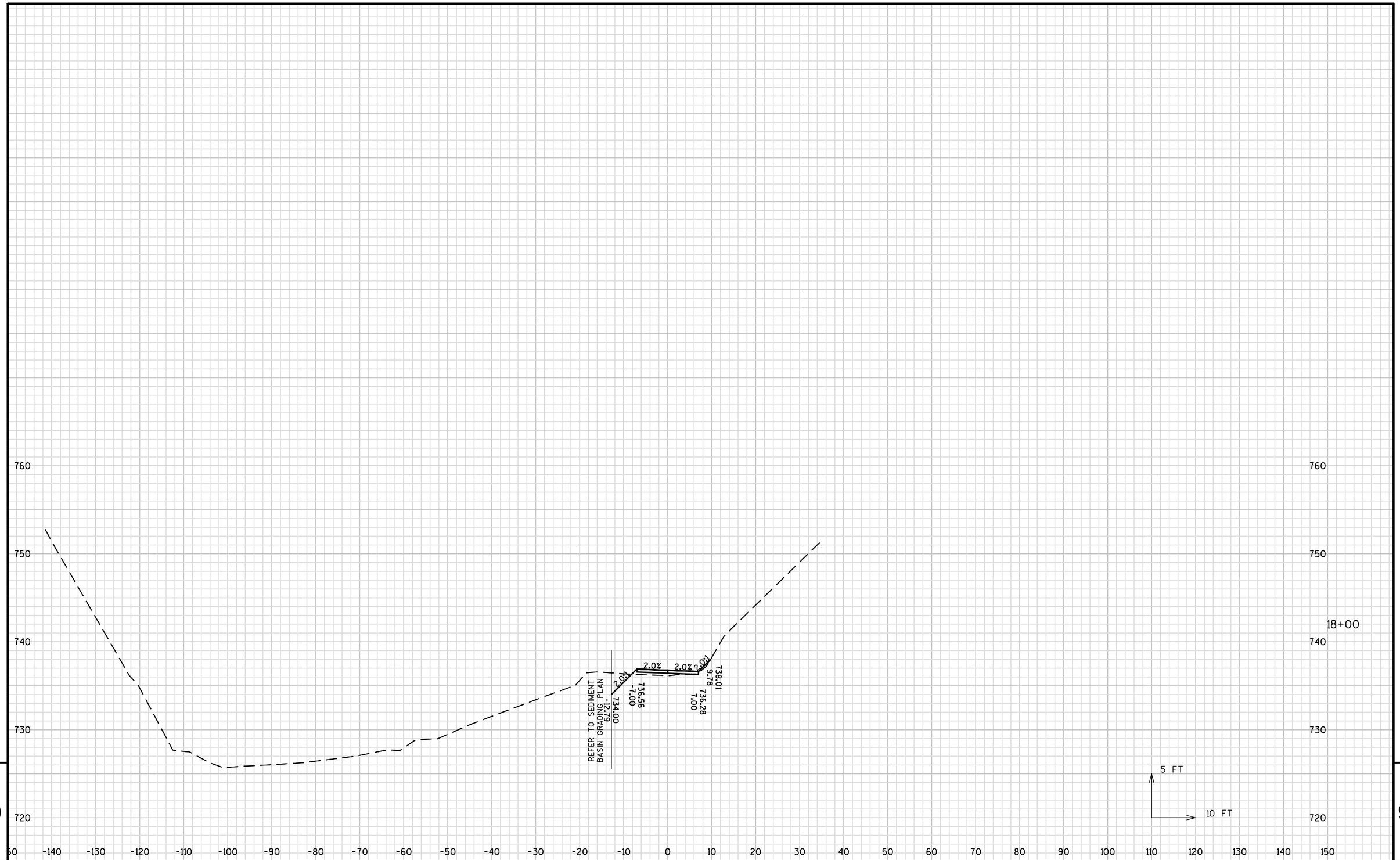


9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 32	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

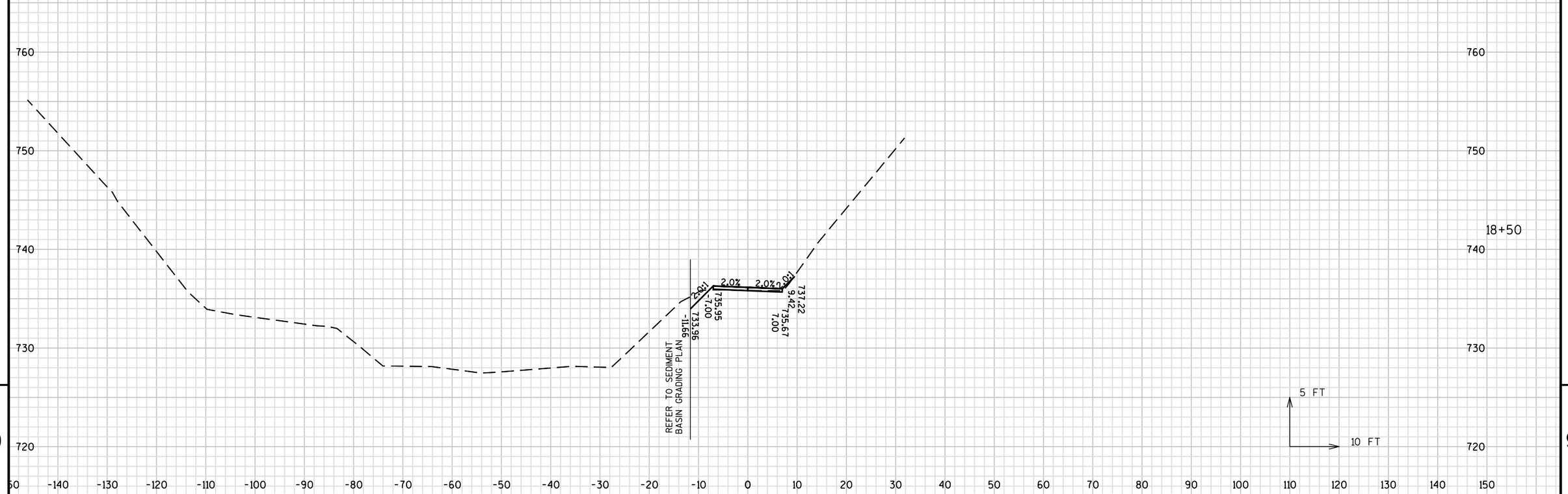
SHEET NAME: SECTION SHEET - (15)



PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 33	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (16)



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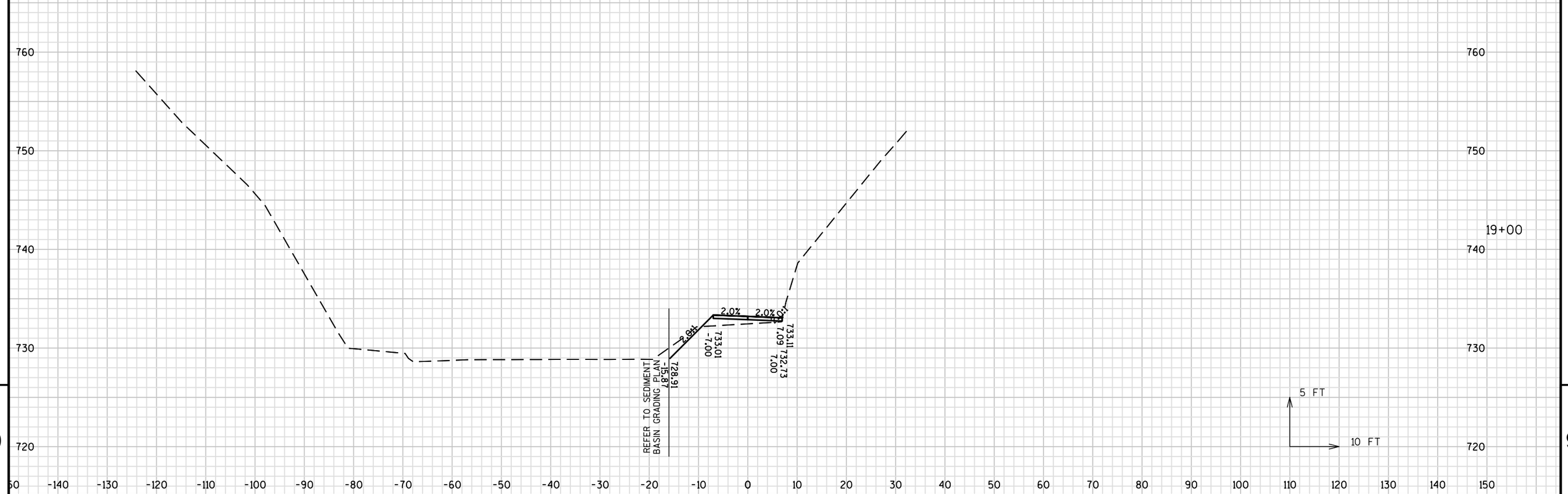
9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 34	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (17)



PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 35 E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (18)

770

760

750

740

730

720

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

END SERVICE ROAD GRADING
STA 19+50

19+50

REFER TO SEDIMENT BASIN GRADING PLAN

-10.98
728.98
2.0%
7.00
730.63
2.0%
2.0%
7.00
730.35
7.39
730.49

5 FT
10 FT

9

9

PROJECT NO: 7110-00-72	HWY: STH 37	COUNTY: BUFFALO	CROSS SECTIONS	SHEET 36	E

FILE NAME : N:\PDS\C3D\71100002\C3D\SHEETSPLAN\71100002-XS.DWG

SHEET NAME: SECTION SHEET - (19)

Notes

Wisconsin Department of Transportation

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