

GRE JUL 2015

PROJECT ID: 1517-07-83
WITH: N/A

COUNTY: WINNEBAGO

ORDER OF SHEETS

Section No.	Title
Section No. 1	Typical Sections and Details
Section No. 2	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 = 44



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	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	COMMUNICATION OVERHEAD
EXISTING CULVERT	COMMUNICATION UNDERGROUND
PROPOSED CULVERT (Box or Pipe)	ELECTRIC OVERHEAD
COMBUSTIBLE FLUIDS	ELECTRIC UNDERGROUND
MARSH AREA	GAS
WOODED OR SHRUB AREA	SANITARY SEWER
	STORM SEWER
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

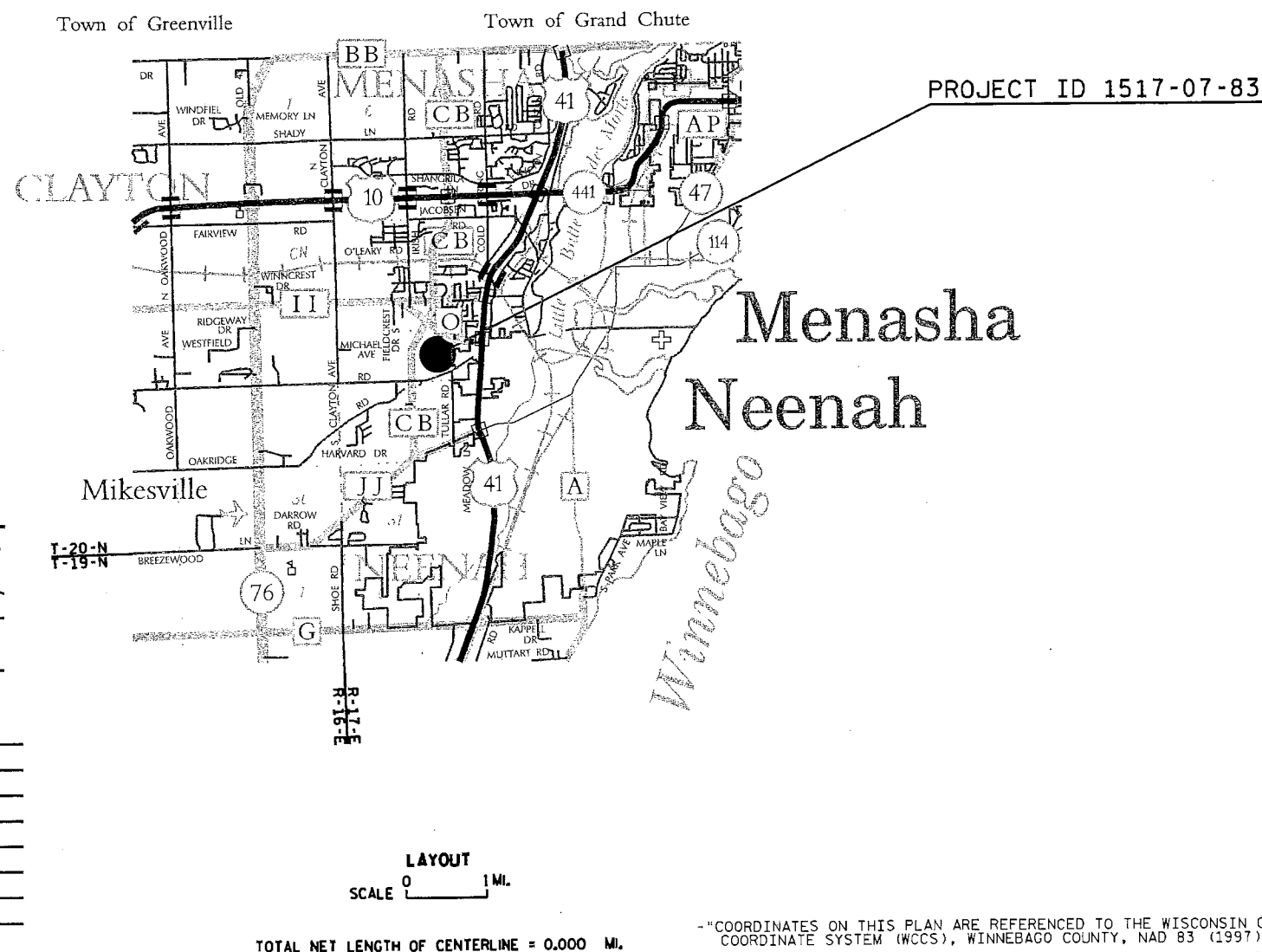
PLAN OF PROPOSED IMPROVEMENT

USH 10 - USH 10/STH 441 CTH CB - ONEIDA ST NON HIGHWAY

WINNEBAGO

TOWN OF NEENAH WETLAND MITIGATION SITE

STATE PROJECT NUMBER
1517-07-83

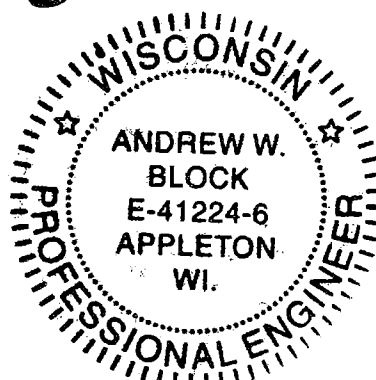


TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

"COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WINNEBAGO COUNTY, NAD 83 (1997)."
"ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (12)."

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1517-07-83	WISC 2015427	1

jt ENGINEERING, INC
Consultant Services



1/29/2015
(Date) Andrew W. Block
(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	NE REGION
Surveyor	JT ENGINEERING, INC.
Designer	SCOTT EBEL
Project Manager	
Regional Examiner	
Regional Supervisor	CHAD DEGRAVE
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 1/29/15
(Signature)

E

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE UTILITES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILTITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. ANY LOCAL, MUNICIPAL, OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPARATELY.

EXISTING SURFACE ELEVATIONS USED TO CALCULATE PROPOSED EARTHWORK QUANTITIES ARE BASED UPON FIELD SURVEY DATA COLLECTED IN JULY 2014.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE.

PLACE SALVAGED TOPSOIL, TO THE DEPTH SPECIFIED IN THE PLANS AND SPECIFICATIONS, IN ALL GRADED AREAS AS DESIGNATED BY THE ENGINEER IMMEDIATELY AFTER GRADING HAS BEEN COMPLETED. SEED AND PLACE EROSION MAT OR MULCH, IF REQUIRED BY THE ENGINEER OR SHOWN IN THE EROSION CONTROL PLANS, OVER ALL AREAS WITHIN 5 DAYS AFTER PLACEMENT OF SALVAGED TOPSOIL.

EROSION BALES ARE TO ONLY BE USED FOR REINFORCEMENT OF PROPOSED SILT FENCE LOCATIONS ALONG WETLANDS. ANY OTHER USE OF EROSION BALES IS PROHIBITED.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WATERWAY.

FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.

THE EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.20.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

BENCHMARK LOCATIONS SHOWN ON PLAN ARE APPROXIMATE AND SHOULD BE VERIFIED.

THE DRAIN TILE LOCATIONS SHOWN IN THE PLAN ARE APPROXIMATE .

CAPPING OF THE EXISTING DRAIN TILE IN THE LOCATION NOTED IN THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE DRAIN TILE EXPLORATION BID ITEM.

ANY DRAIN TILE NOT NOTED TO REMAIN FUNCTIONAL IN THE PLANS THAT IS ENCOUNTERED DURING EXCAVATION OR EXPLORATION OPERATIONS SHALL BE REMOVED OR OTHERWISE DISABLED TO RENDER IT INOPERABLE AS APPROVED BY THE ENGINEER. ITS REMOVAL OR DISABLEMENT SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM EXCAVATION COMMON OR DRAIN TILE EXPLORATION.

ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES
- PROJECT OVERVIEW
- CONSTRUCTION DETAILS
- EXISTING CONDITIONS MAP
- GRADING PLAN
- EROSION CONTROL PLAN
- PLANTING PLAN
- ALIGNMENT PLAN



UTILITY CONTACTS

AT&T WISCONSIN
MR. GARY LAABS
221 WEST WASHINGTON STREET 4TH FLOOR
APPLETON, WI 54911
(920) 735-3063
GL1784@ATT.COM

TIME WARNER CABLE
MR. VINCE ALBIN
3545 PLANK ROAD
APPLETON, WI 54915
(920) 831-9249
MOBILE: (920) 378-0444
VINCE.ALBIN@TWCABLE.COM

**TOWN OF MENASHA
UTILITY DISTRICT SANITARY**
MR. STEVEN LAABS
2340 AMERICAN DRIVE
NEENAH, WI 54956
(920) 739-5120
STEVENL@TOWN-MENASHA.COM

**TOWN OF MENASHA
UTILITY DISTRICT WATER**
MR. JEFF ROTH
2340 AMERICAN DRIVE
NEENAH, WI 54956
(920)720-7175
JEFFR@TOWN-MENASHA.COM

**WE ENERGIES
ELECTRIC AND GAS**
MR. LATROY BRUMFIELD
333 W EVERTT ST A299
MILWAUKEE, WI 53203
(414) 221-5617
MOBILE: (414) 975-9053
LATROY.BRUMFIELD@WE-ENERGIES.COM

**WE ENERGIES
ELECTRIC**
MR. CHRIS SCHULZ
500 S 116TH ST
WEST ALLIS, WI 53214
(414) 944-5553
MOBILE: (414) 550-8289
CHRIS.SCHULZ@WE-ENERGIES.COM

**WE ENERGIES
GAS**
LISA MAYNE
1921 8TH ST SOUTH
WISCONSIN RAPIDS, WI 54494
(715) 421-7227
LISA.MAYNE@WE-ENERGIES.COM

**WINNEBAGO COUNTY
HIGHWAY COMMISSIONER**
MR. ERNIE WINTERS
901 WEST COUNTY ROAD Y
P.O. BOX 2764
OSHKOSH, WI 54903
(920) 232-1700

DNR AREA LIAISON
MR. JAY SCHIEFELBEIN
DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
(920) 360-3784

COUNTY SURVEYOR
MR. JERRY BOUGIE
WINNEBAGO COUNTY COURT HOUSE
445 ALGOMA BLVD
OSHKOSH, WI 54903
(920) 236-4839

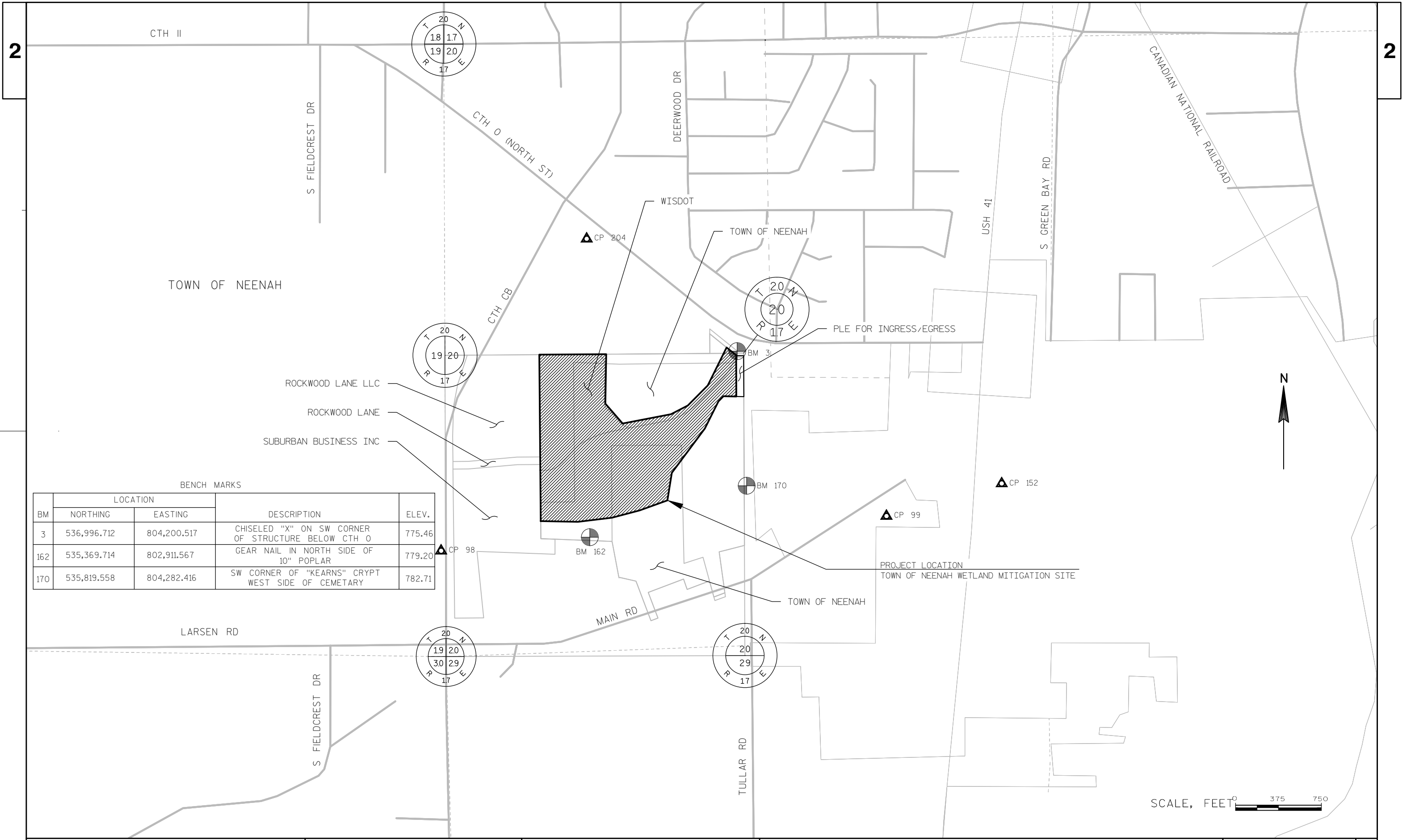
US ARMY CORP OF ENGINEERS
MR. TODD VESPERMAN
OLD FORT SQUARE
211 N. BROADWAY, STE 221
GREEN BAY, WI 54303
(651) 290-5857
TODD.VESPERMAN@USACE.ARMY.MIL

ALIGNMENT IDENTIFIERS	
S	MAIN CHANNEL
T	TRAIL
NB	NORTH BOUNDARY

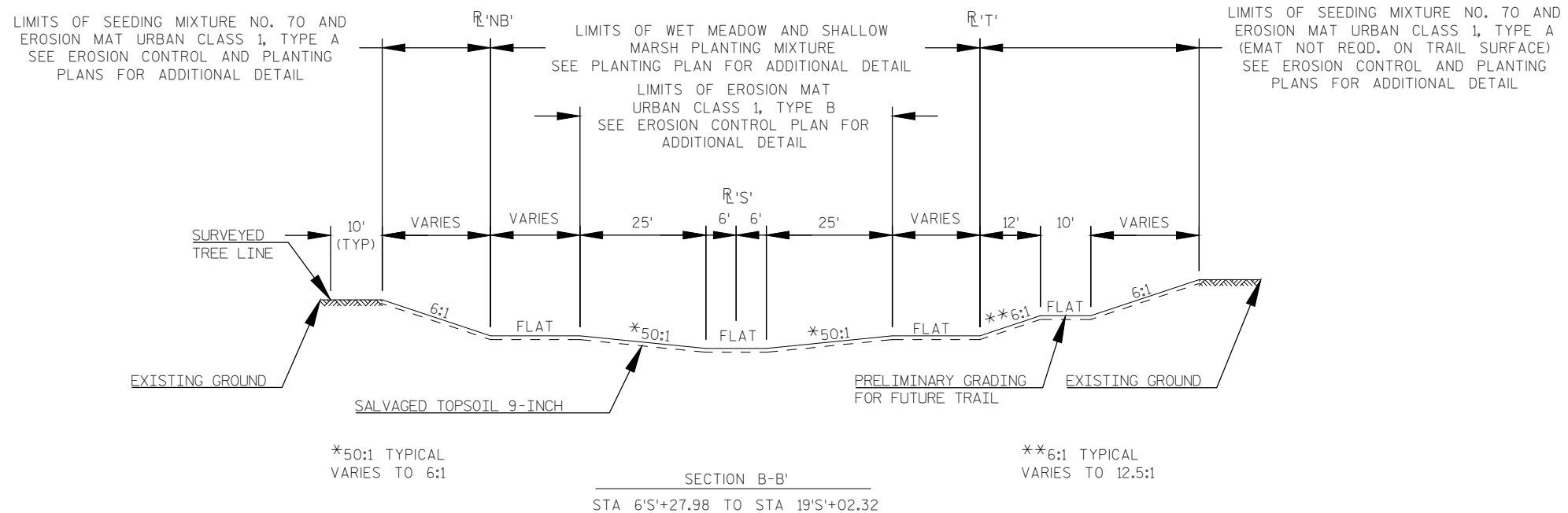
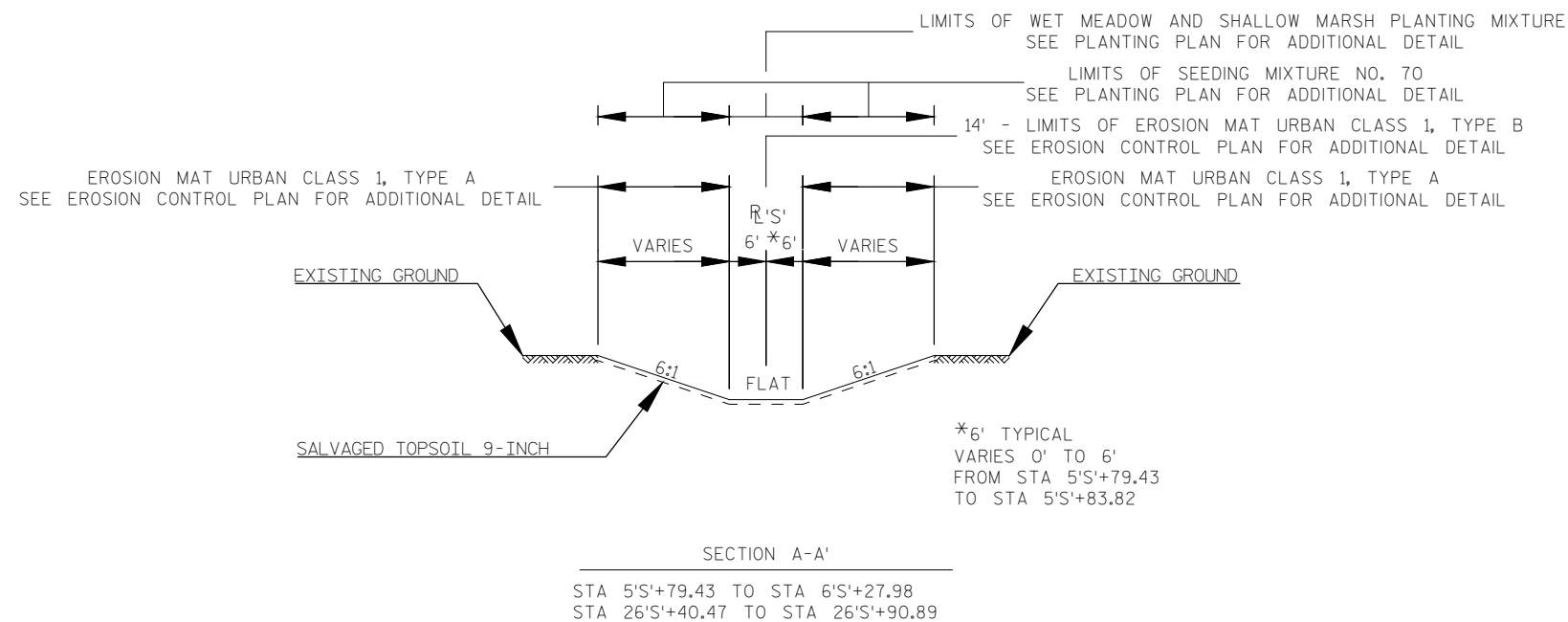
RUNOFF COEFFICENT TABLE

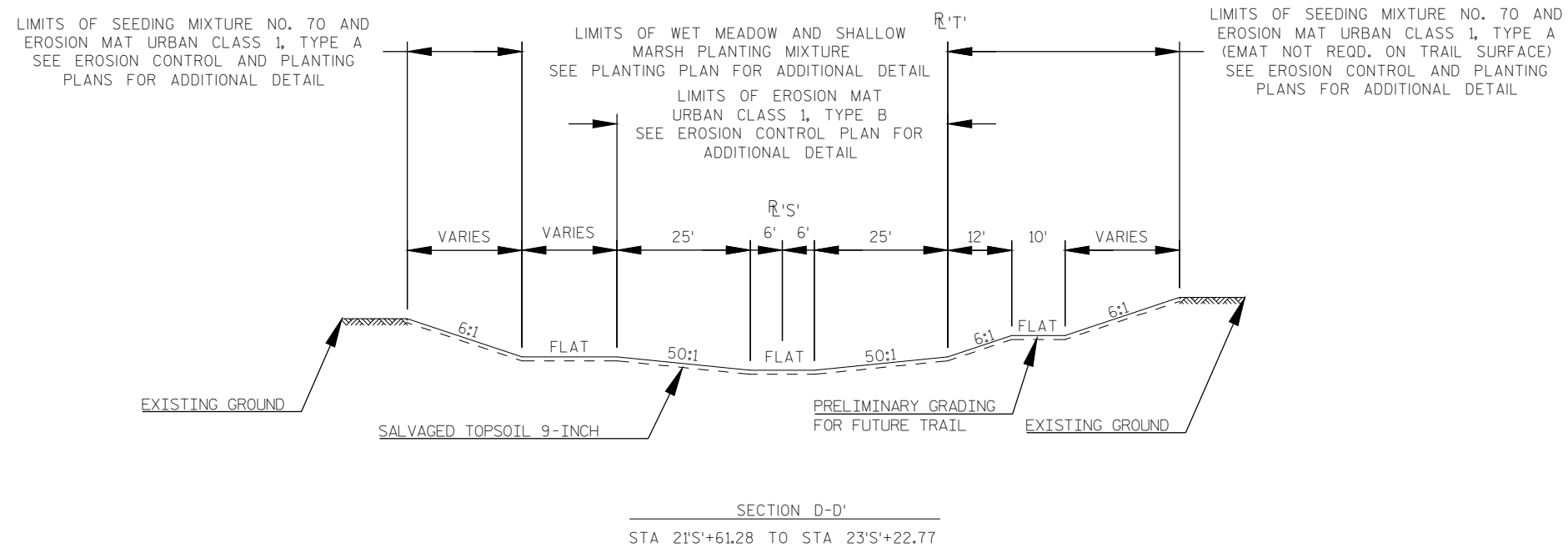
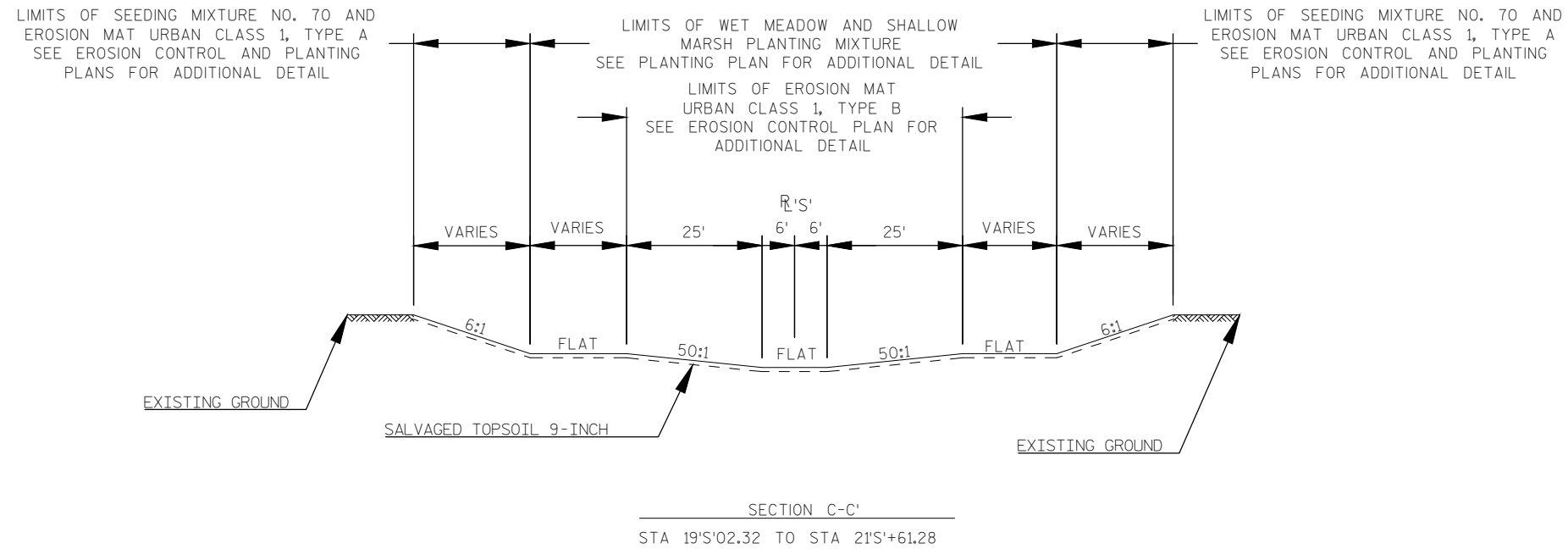
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38
	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56
MEDIAN STRIP-TURF	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30
	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40
SIDE SLOPE-TURF			0.25			0.27			0.28			0.30
			0.32			0.34			0.36			0.38
PAVEMENT:												
ASPHALT						.70 - .95						
CONCRETE						.80 - .95						
BRICK						.70 - .80						
DRIVES, WALKS						.75 - .85						
ROOFS						.75 - .95						
GRAVEL ROADS, SHOULDERS						.40 - .60						

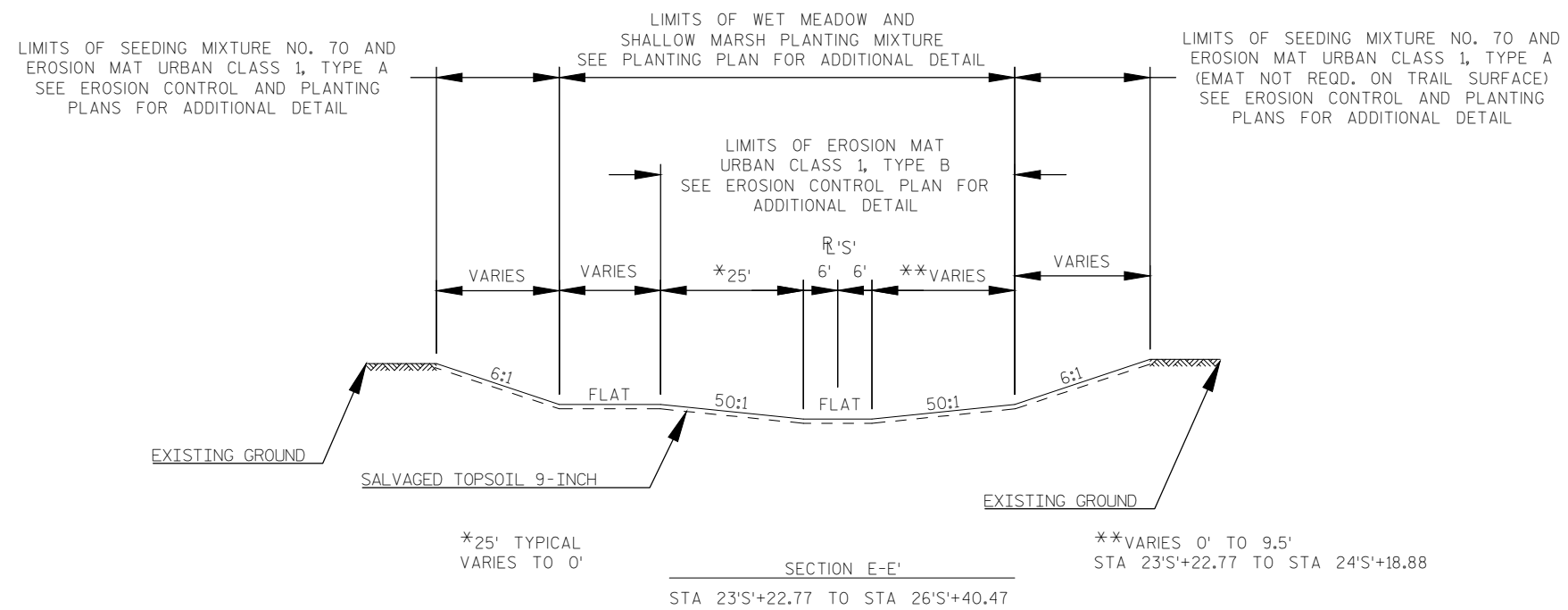
1517-07-83
TOTAL PROJECT AREA = 35.37 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 28.80 ACRES

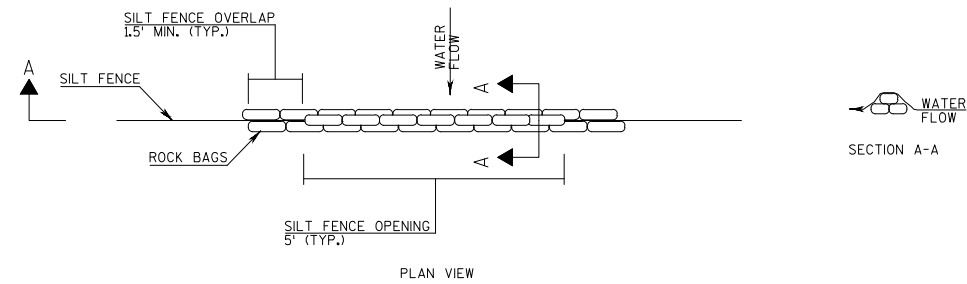


BENCH MARKS				
BM	LOCATION		DESCRIPTION	ELEV.
	NORTHING	EASTING		
3	536,996.712	804,200.517	CHISELED "X" ON SW CORNER OF STRUCTURE BELOW CTH O	775.46
162	535,369.714	802,911.567	GEAR NAIL IN NORTH SIDE OF 10" POPLAR	779.20
170	535,819.558	804,282.416	SW CORNER OF "KEARNS" CRYPT WEST SIDE OF CEMETARY	782.71

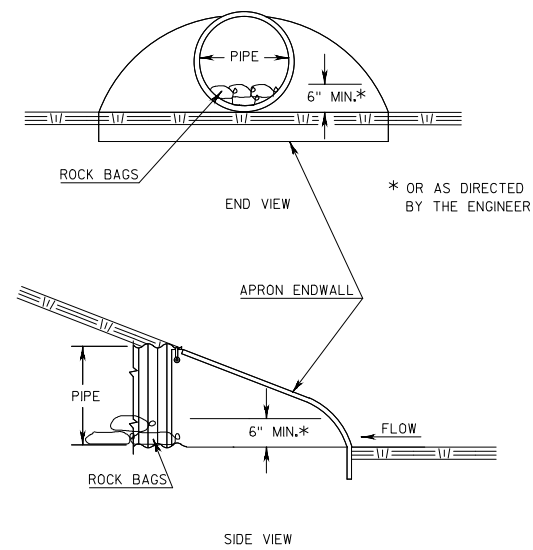




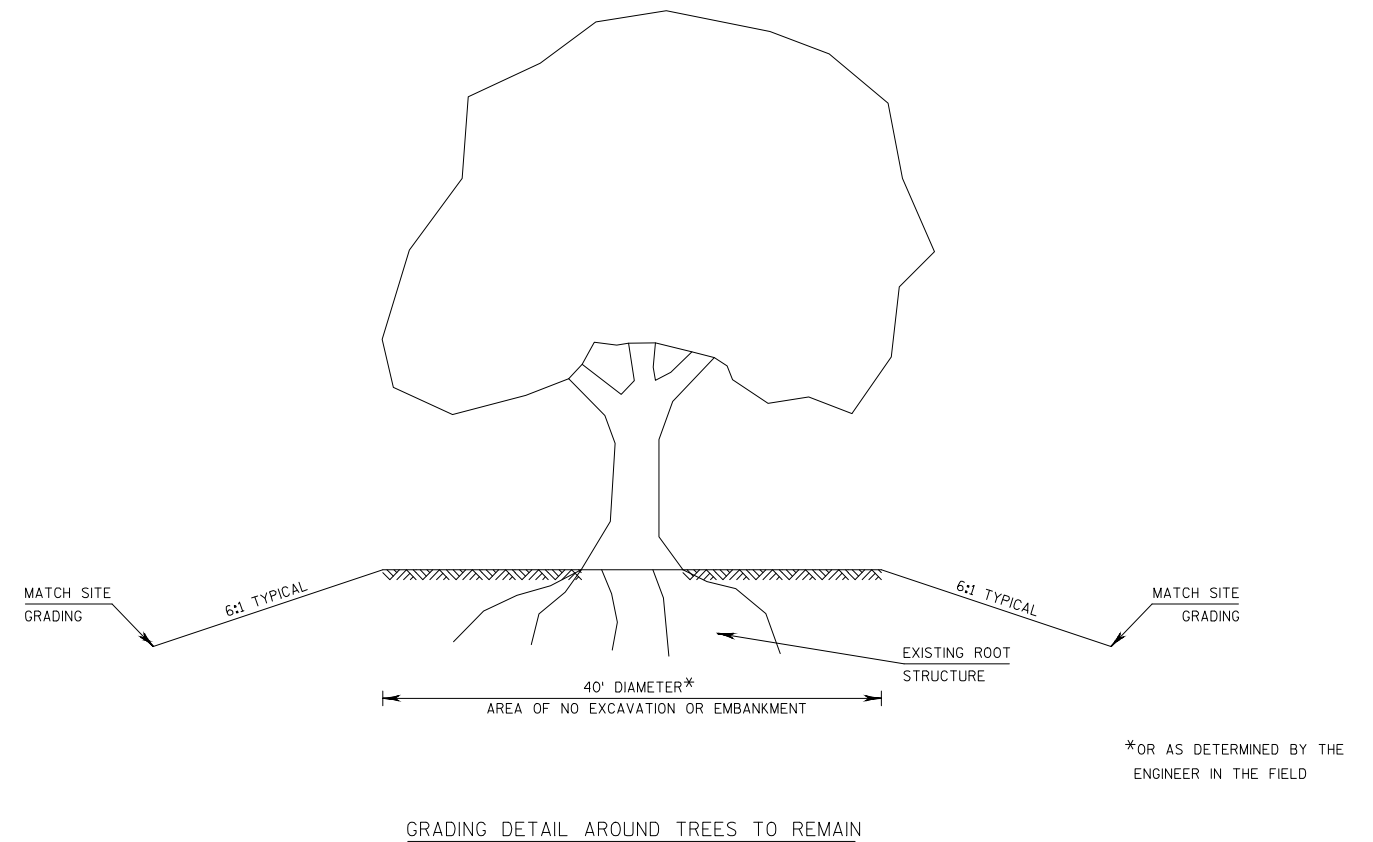


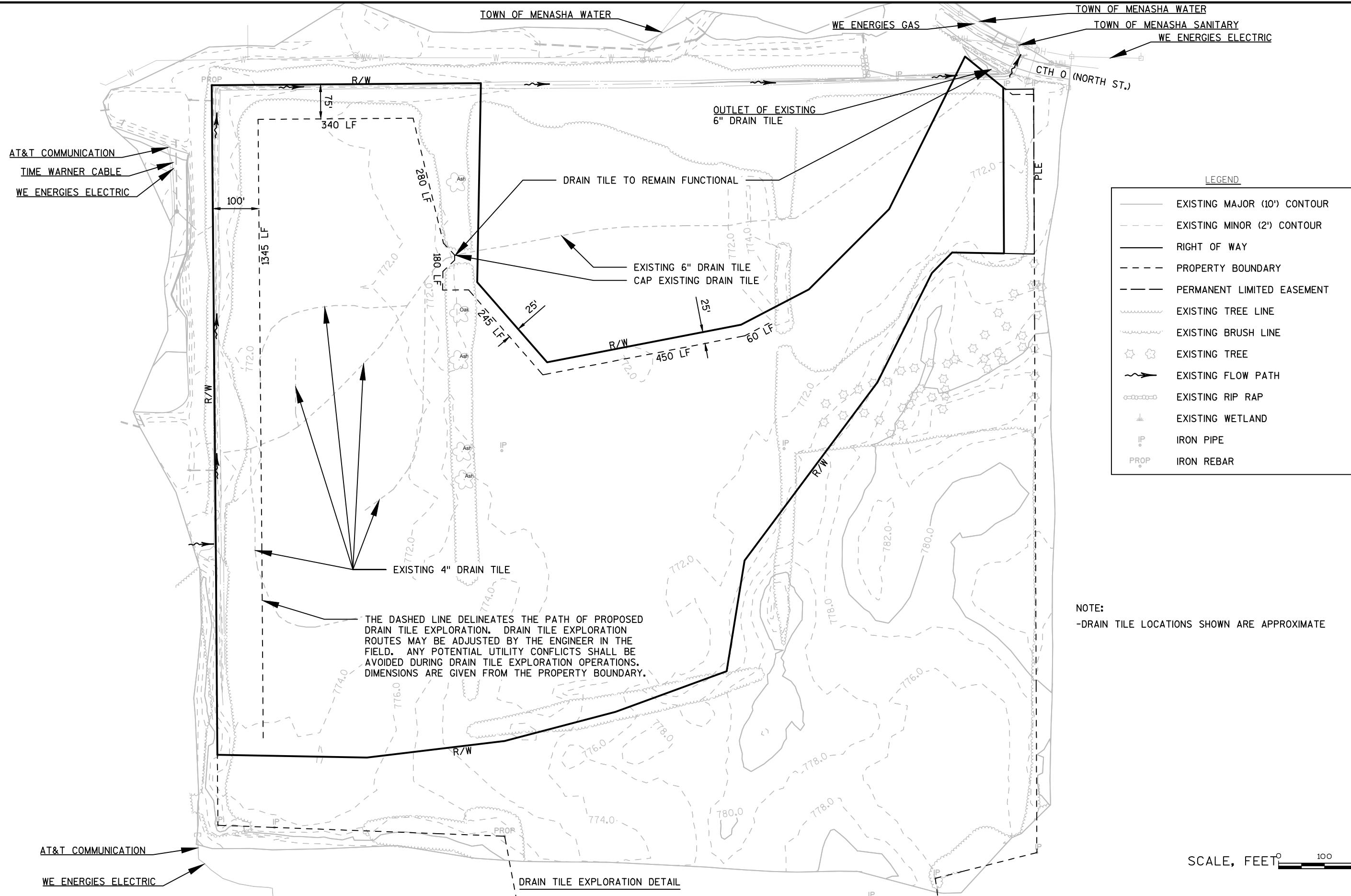


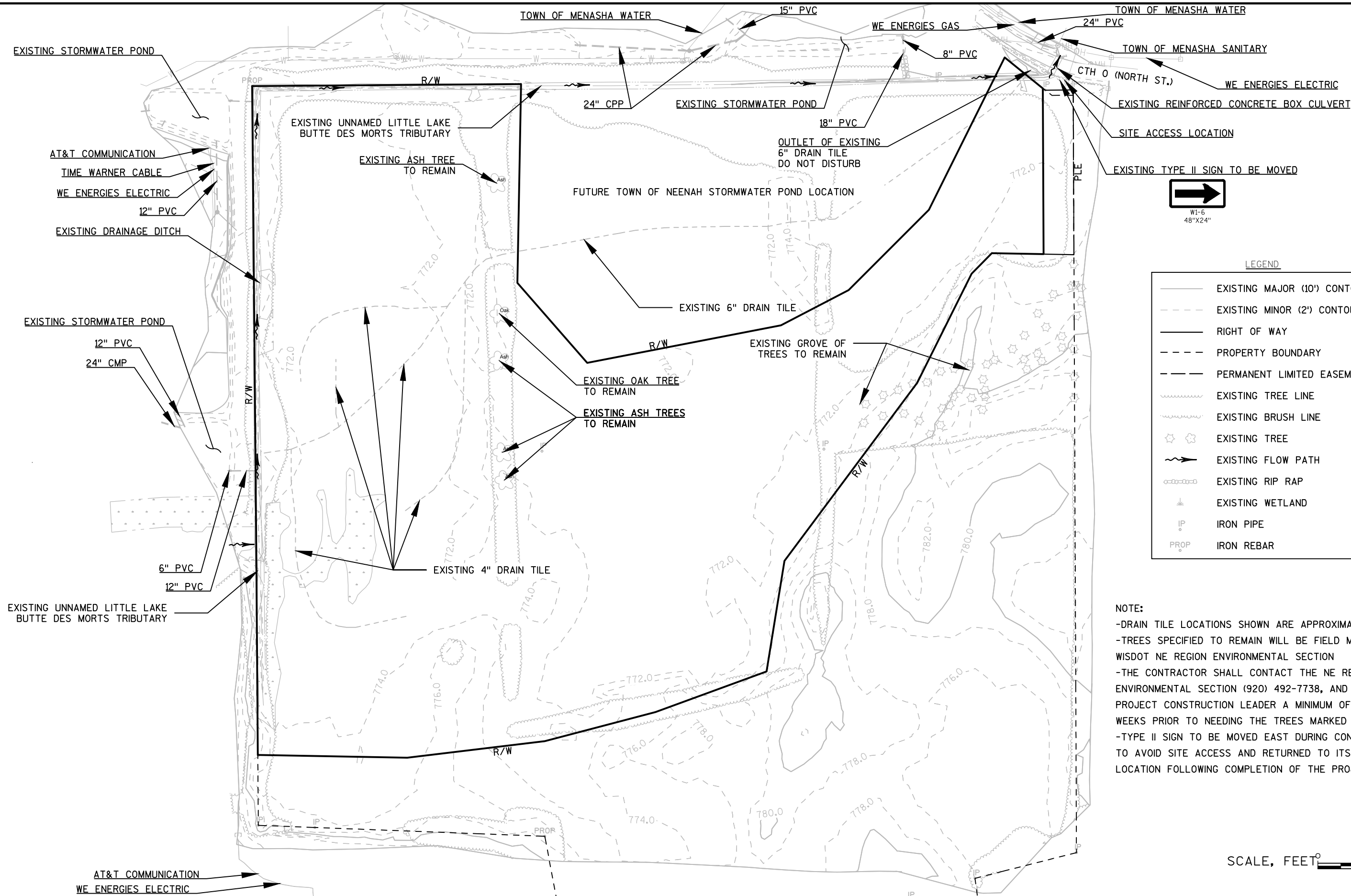
SILT FENCE RELIEF WITH ROCK BAGS

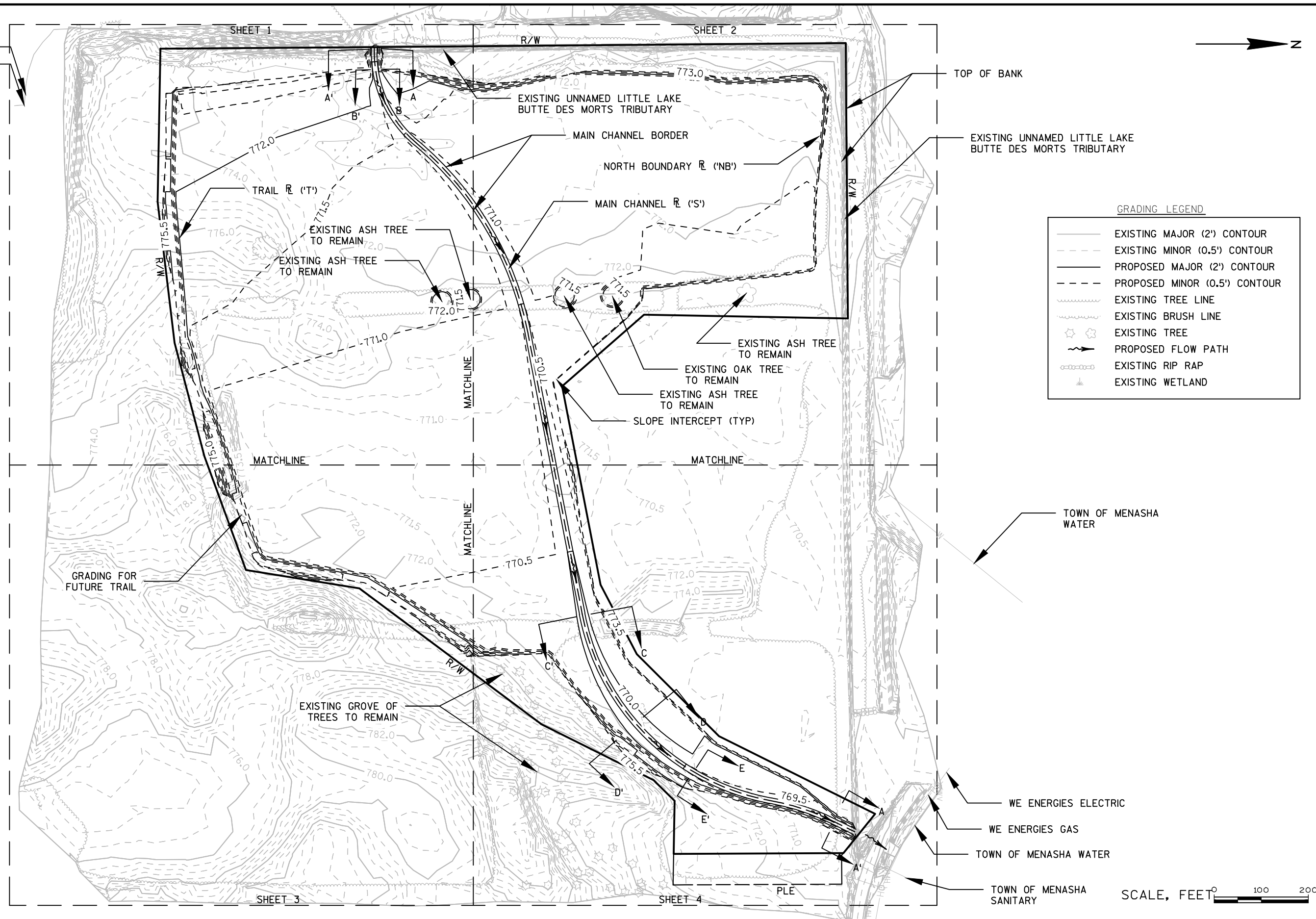


CULVERT PIPE CHECK









2

AT&T COMMUNICATION
WE ENERGIES ELECTRIC



GRADING LEGEND

- EXISTING MAJOR (2') CONTOUR
- EXISTING MINOR (0.5') CONTOUR
- PROPOSED MAJOR (2') CONTOUR
- PROPOSED MINOR (0.5') CONTOUR
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- EXISTING TREE
- PROPOSED FLOW PATH
- EXISTING RIP RAP
- CLEARING AND GRUBBING REQD
- EXISTING WETLAND

SLOPE INTERCEPT (TYP)

GRADING FOR
FUTURE TRAIL

TRAIL R ('T')

MAIN CHANNEL BORDER

MAIN CHANNEL R ('S')

EXISTING ASH TREE
TO REMAIN

EXISTING ASH TREE
TO REMAIN

EXISTING UNNAMED LITTLE
LAKE BUTTE DES MORTS
TRIBUTARY

SCALE, FEET 0 50 100

MATCHLINE
SHEET 3

MATCHLINE
SHEET 2

SHEET 1 OF 4

PROJECT NO:1517-07-83

HWY:STH 441/USH 10

COUNTY:WINNEBAGO

GRADING PLAN

SHEET

E

FILE NAME : X:\PROJECTS\WINNEBAGO\1517-07-83 NEENAH WETLAND SITE\DESIGN\C3D\SHEETSP\PLAN\021602_CM.DWG
**** - ****

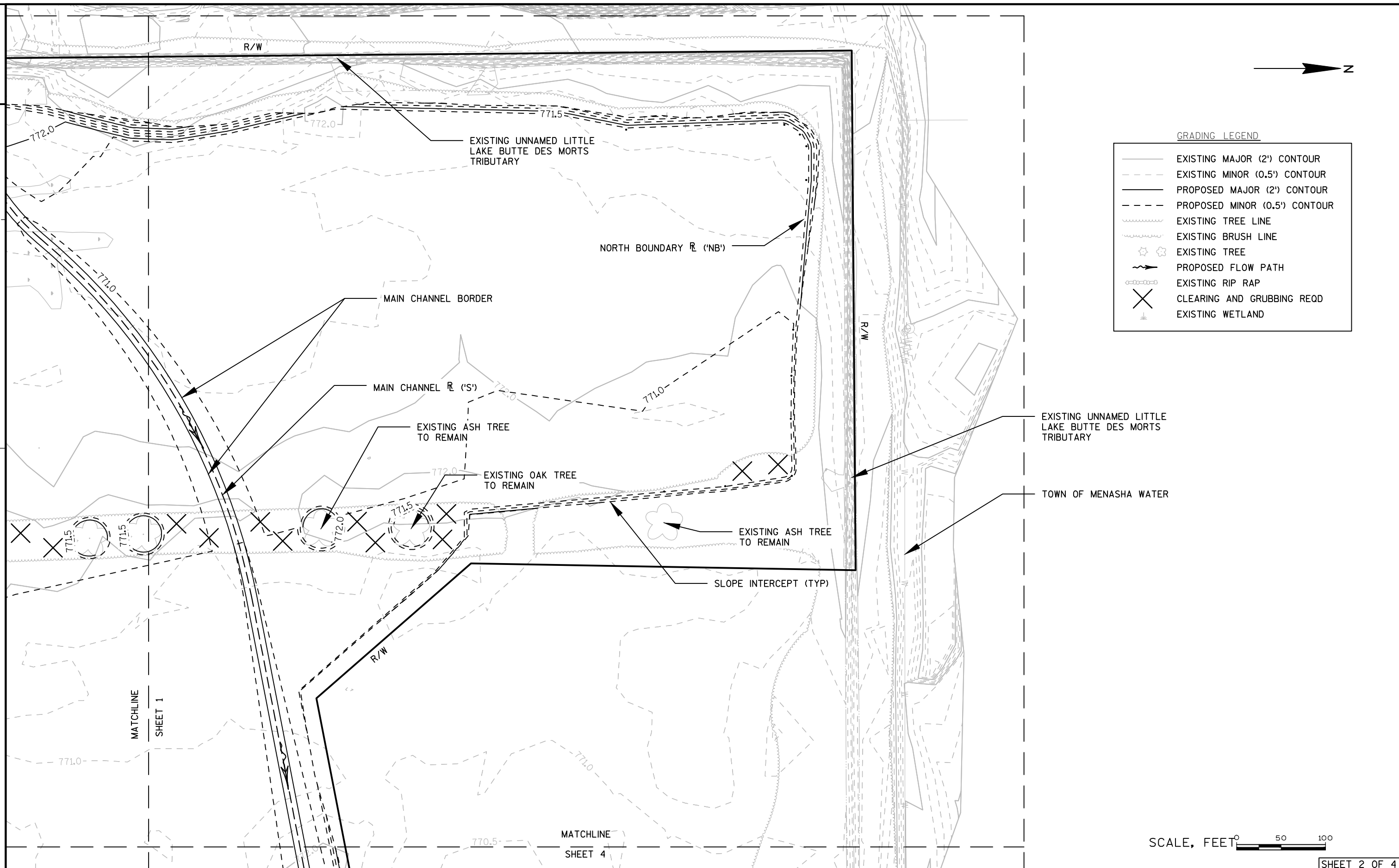
PLOT DATE : 1/22/2015 12:52 PM

PLOT BY : CHAD KWIATKOWSKI

PLOT NAME :

PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

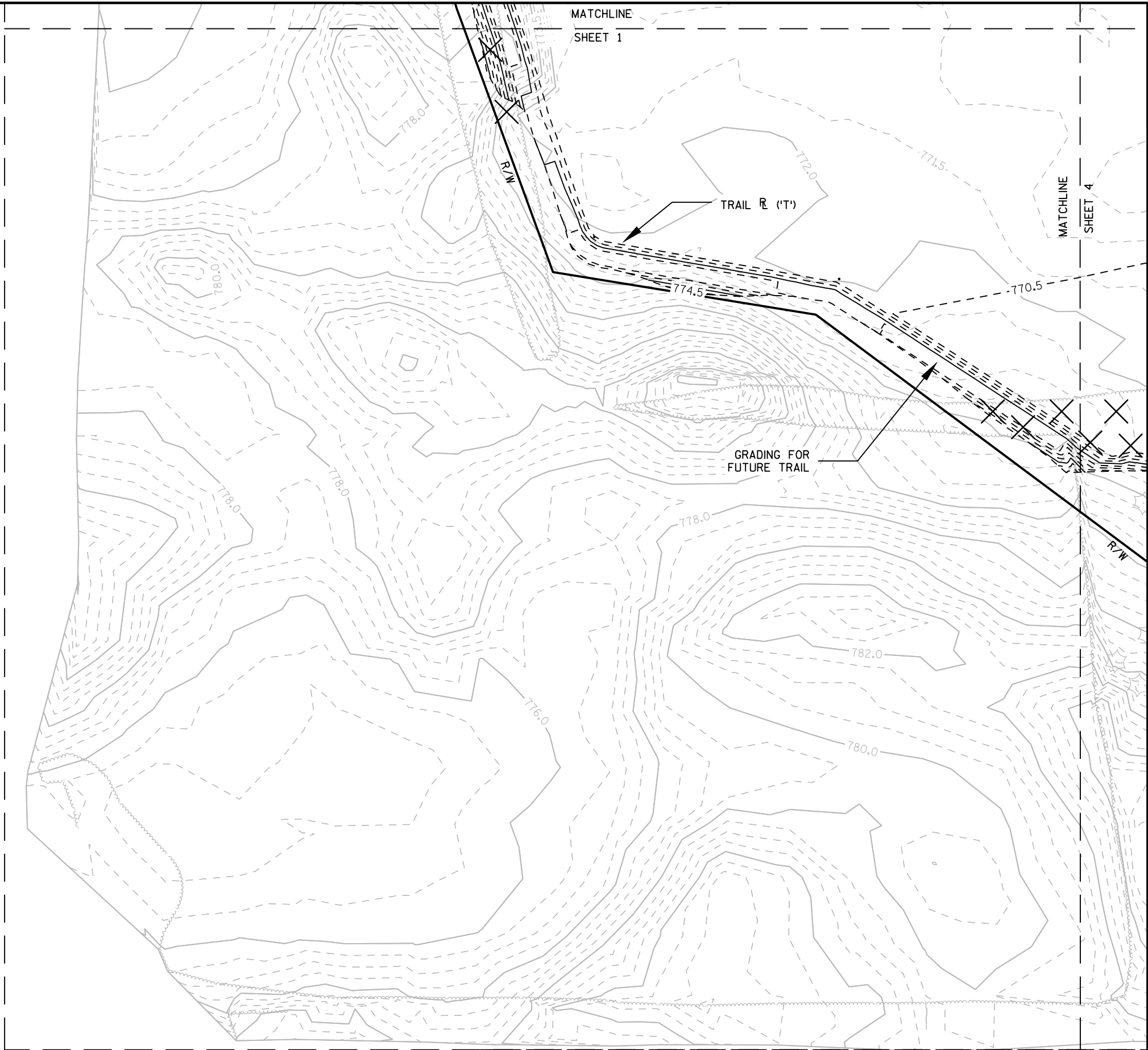




GRADING LEGEND

- EXISTING MAJOR (2') CONTOUR
- EXISTING MINOR (0.5') CONTOUR
- PROPOSED MAJOR (2') CONTOUR
- PROPOSED MINOR (0.5') CONTOUR
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- EXISTING TREE
- PROPOSED FLOW PATH
- EXISTING RIP RAP
- CLEARING AND GRUBBING REQD
- EXISTING WETLAND

SCALE, FEET 0 50 100



SHEET 3 OF 4

PROJECT NO:1517-07-83

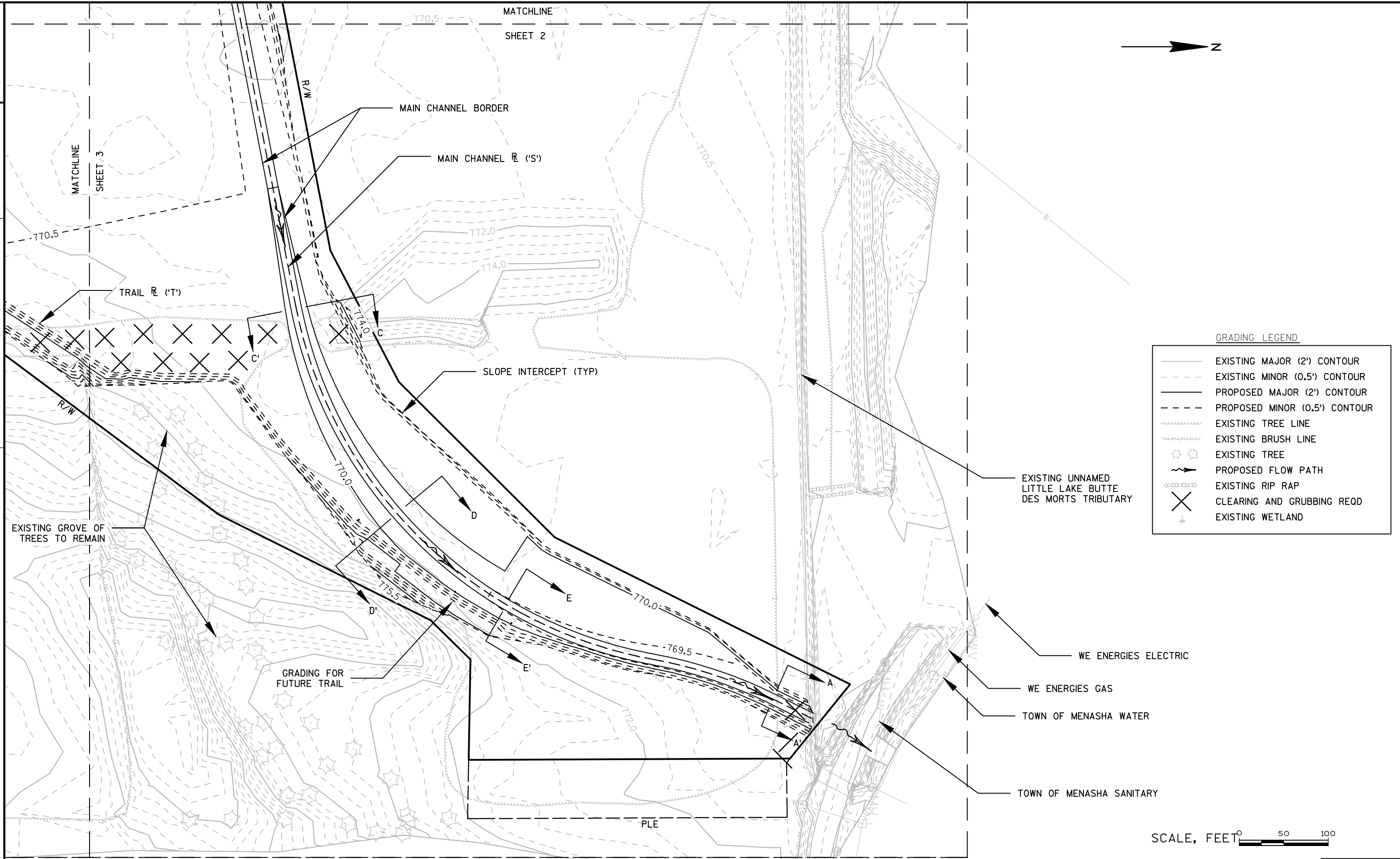
HWY:STH 441/USH 10

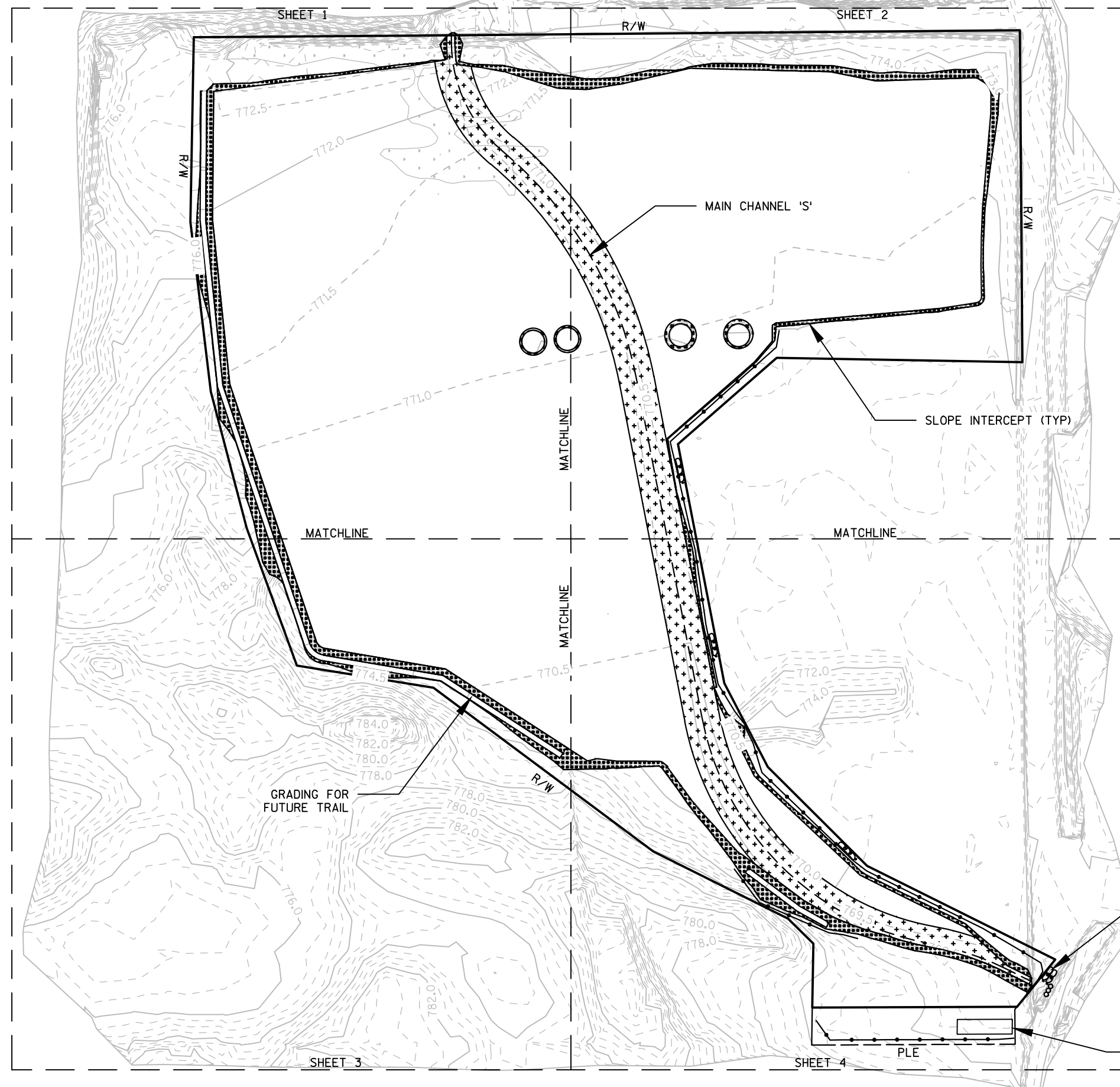
COUNTY:WINNEBAGO

GRADING PLAN

SHEET

E





EROSION CONTROL LEGEND

TRACKING PAD	TRACKING PAD
∞	CULVERT PIPE CHECKS
⊗	ROCK BAGS (FOR SILT FENCE RELIEF)
—•—•—•—•—	SILT FENCE
#####	EROSION MAT URBAN CLASS 1 TYPE A
#####	EROSION MAT URBAN CLASS 1 TYPE B
—▲—▲—▲—	EXISTING WETLANDS & BOUNDARY

NOTE:
THE TRACKING PAD LOCATION SHOWN IN THE PLAN MAY BE CHANGED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

SCALE, FEET 0 100 200



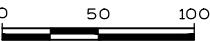
EROSION CONTROL LEGEND

TRACKING PAD	TRACKING PAD
ooo	CULVERT PIPE CHECKS
o	ROCK BAGS (FOR SILT FENCE RELIEF)
-----o-----	SILT FENCE
*****	EROSION MAT URBAN CLASS 1 TYPE A
xxxxxx	EROSION MAT URBAN CLASS 1 TYPE B
~ ~ ~	EXISTING WETLANDS & BOUNDARY

NOTE:

THE TRACKING PAD LOCATION SHOWN IN THE PLAN
MAY BE CHANGED BY THE CONTRACTOR WITH THE
APPROVAL OF THE ENGINEER.

SCALE, FEET



SLOPE INTERCEPT (TYP)

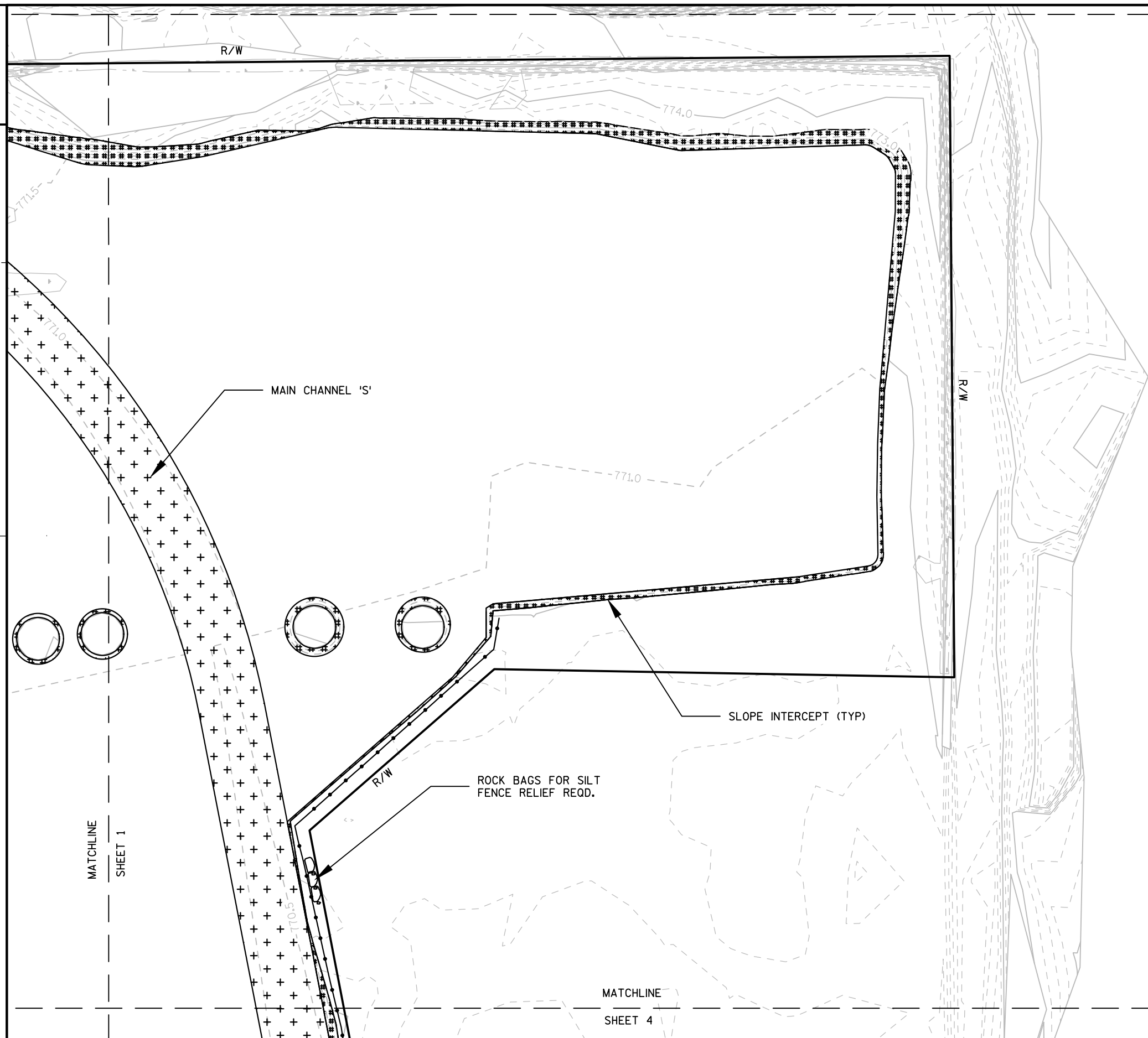
R/W

GRADING FOR
FUTURE TRAIL

MAIN CHANNEL 'S'

MATCHLINE
SHEET 3MATCHLINE
SHEET 2

R/W



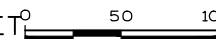
EROSION CONTROL LEGEND

TRACKING PAD	TRACKING PAD
∞∞	CULVERT PIPE CHECKS
⬮	ROCK BAGS (FOR SILT FENCE RELIEF)
—●—●—●—●—	SILT FENCE
#####	EROSION MAT URBAN CLASS 1 TYPE A
xxxxxx	EROSION MAT URBAN CLASS 1 TYPE B
⬮	EXISTING WETLANDS & BOUNDARY

NOTE:

THE TRACKING PAD LOCATION SHOWN IN THE PLAN MAY BE CHANGED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

SCALE, FEET



SHEET 2 OF 4

PROJECT NO:1517-07-83

HWY:STH 441/USH 10

COUNTY:WINNEBAGO

EROSION CONTROL PLAN

SHEET

E



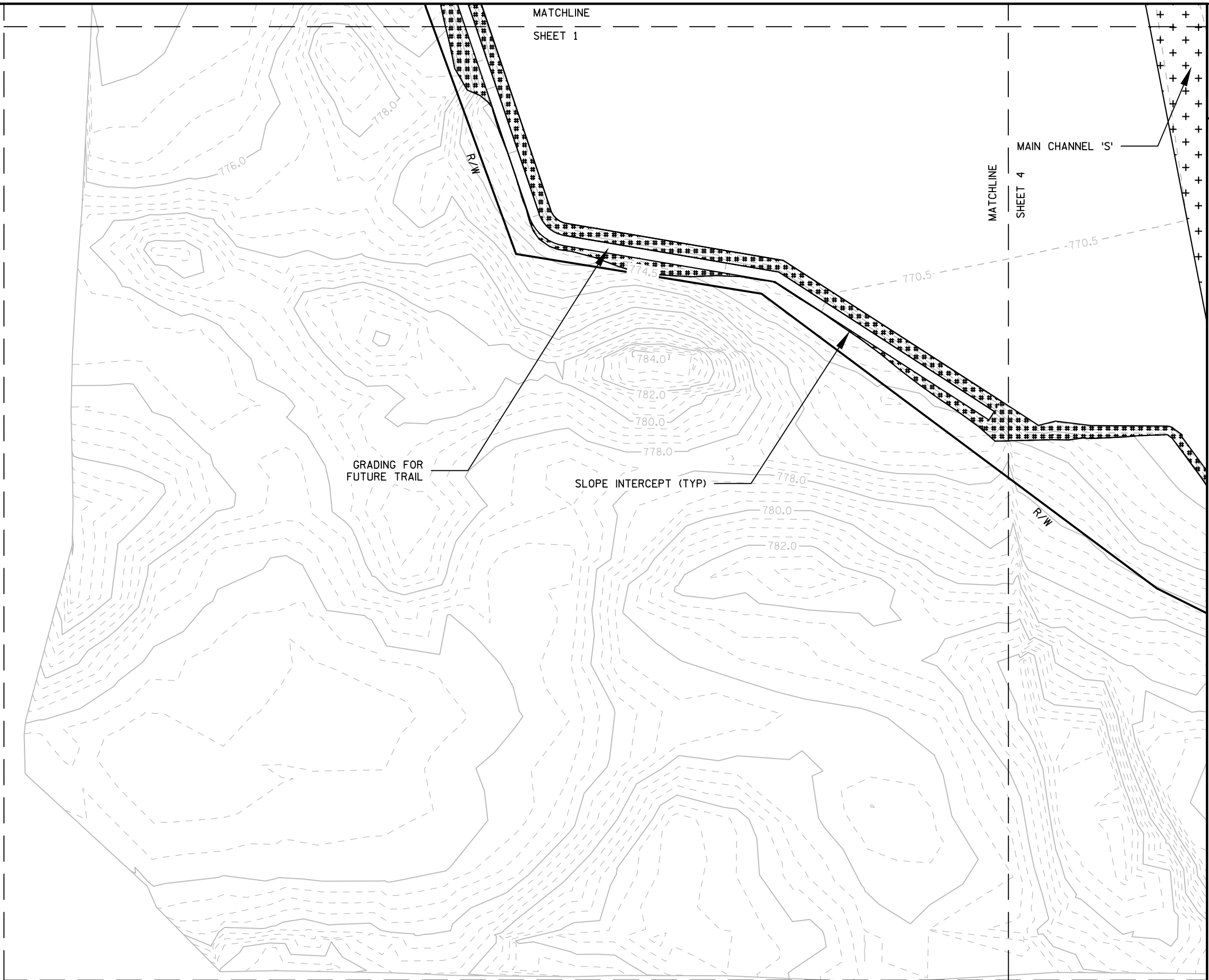
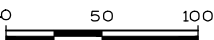
EROSION CONTROL LEGEND

TRACKING PAD	TRACKING PAD
∞∞	CULVERT PIPE CHECKS
⬮	ROCK BAGS (FOR SILT FENCE RELIEF)
●●●●	SILT FENCE
*****	EROSION MAT URBAN CLASS 1 TYPE A
xxxxxx	EROSION MAT URBAN CLASS 1 TYPE B
	EXISTING WETLANDS & BOUNDARY

NOTE:

THE TRACKING PAD LOCATION SHOWN IN THE PLAN MAY BE CHANGED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

SCALE, FEET



SHEET 3 OF 4

PROJECT NO:1517-07-83

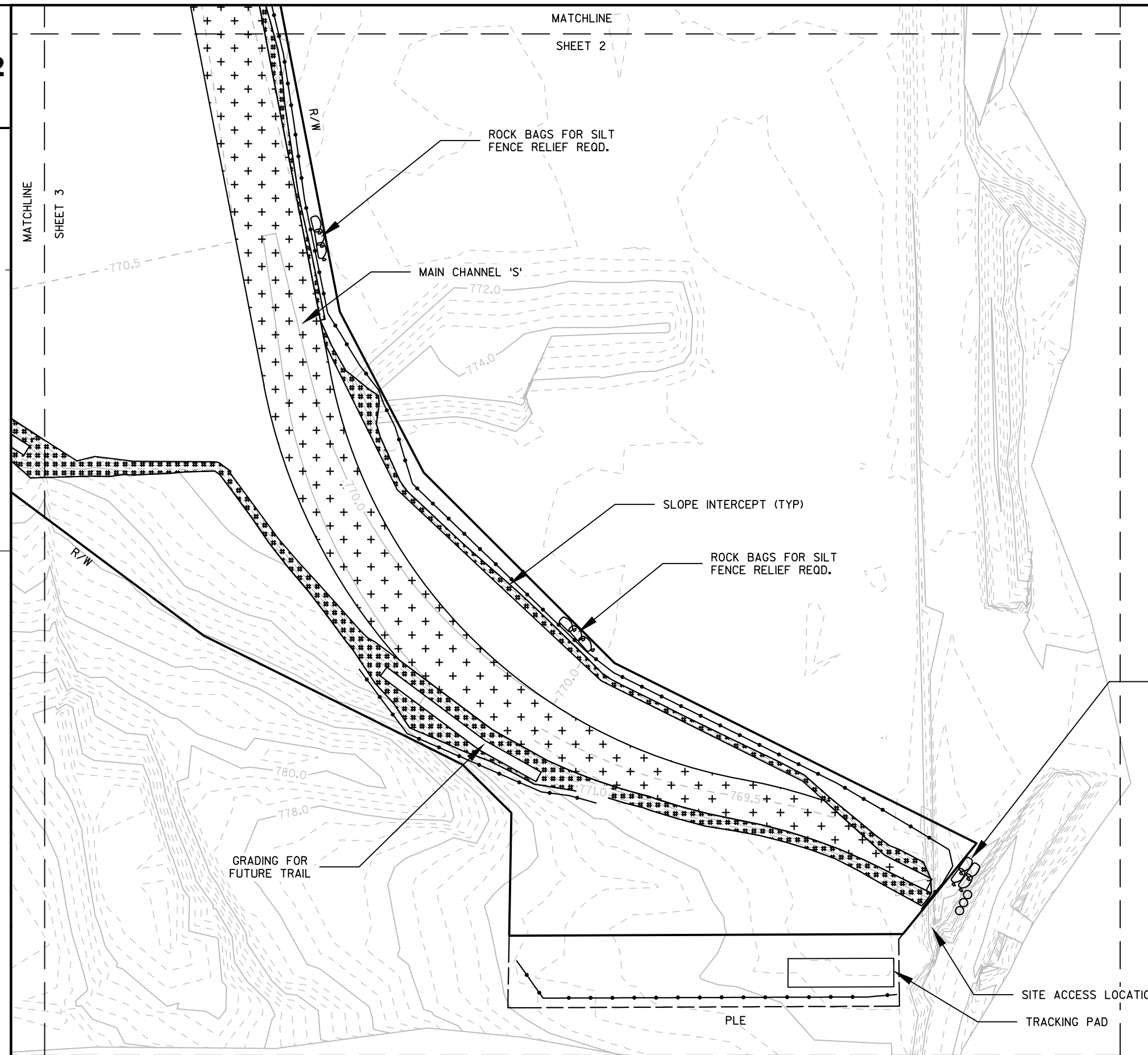
HWY:STH 441/USH 10

COUNTY:WINNEBAGO

EROSION CONTROL PLAN

SHEET

E



EROSION CONTROL LEGEND

TRACKING PAD	TRACKING PAD
∞	CULVERT PIPE CHECKS
⬭	ROCK BAGS (FOR SILT FENCE RELIEF)
—●—●—●—●—	SILT FENCE
*****	EROSION MAT URBAN CLASS 1 TYPE A
xxxxxxx	EROSION MAT URBAN CLASS 1 TYPE B
▬▬▬▬▬▬▬▬▬▬	EXISTING WETLANDS & BOUNDARY

NOTE:

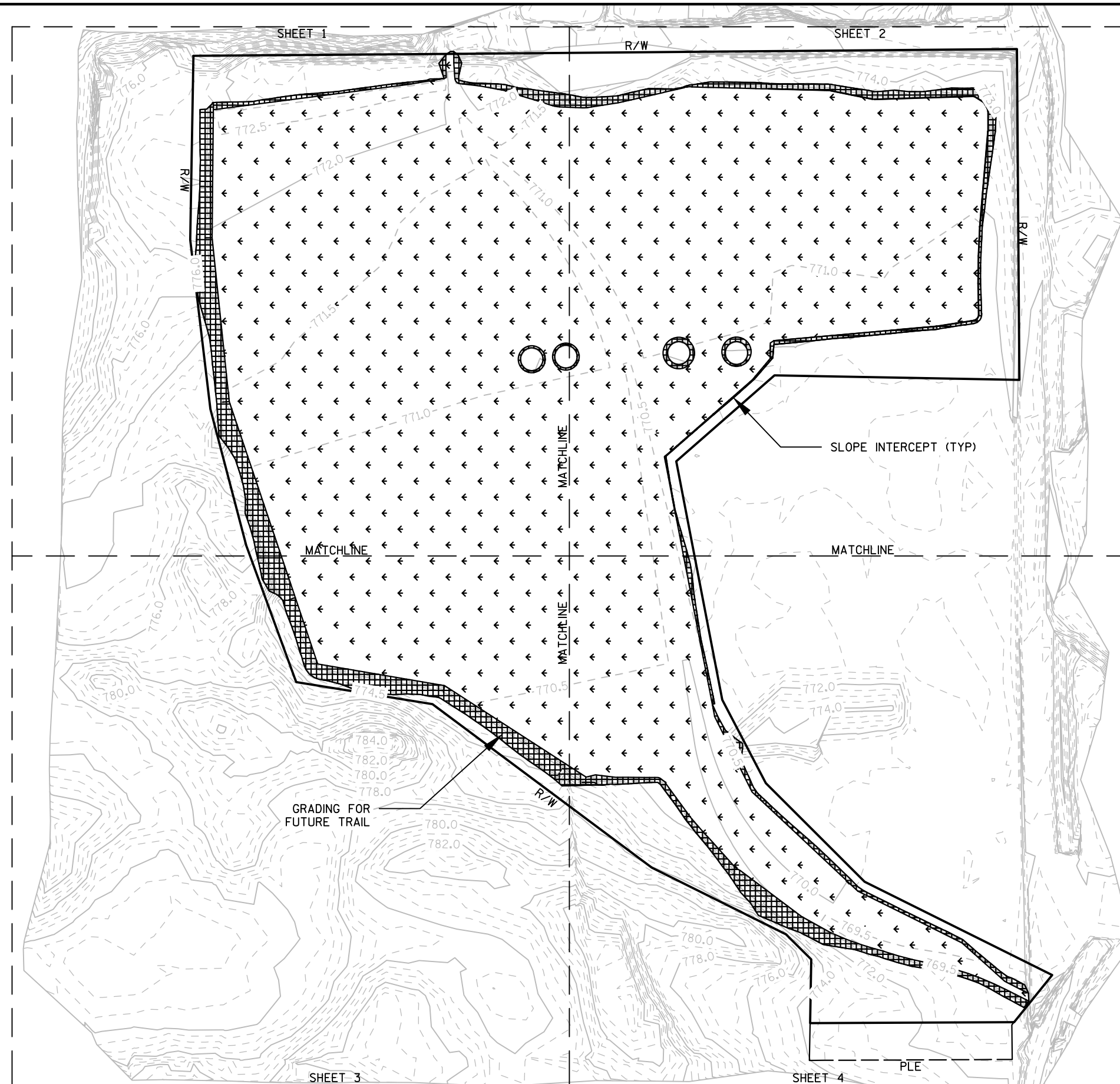
THE TRACKING PAD LOCATION SHOWN IN THE PLAN MAY BE CHANGED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

DOUBLE ROW ROCK BAGS
FOR SILT FENCE RELIEF REQD.

SITE ACCESS LOCATION

TRACKING PAD

SCALE, FEET 0 50 100

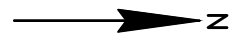


PLANTING AND SEEDING LEGEND

	WET MEADOW & SHALLOW MARSH PLANTING MIXTURE
	SEEDING MIXTURE NO. 70

THE CONTRACTOR SHALL CONTACT THE NE REGION ENVIRONMENTAL SECTION, (920) 492-7738, AND THE PROJECT CONSTRUCTION LEADER A MINIMUM OF TWO WEEKS PRIOR TO SEEDING THE TOWN OF NEENAH WETLAND MITIGATION SITE TO ALLOW FOR DIRECTION ON FINAL SEEDING LIMITS AND LOCATIONS.

SCALE, FEET 0 100 200



PLANTING AND SEEDING LEGEND

WET MEADOW & SHALLOW MARSH
PLANTING MIXTURE

SEEDING MIXTURE NO. 70

THE CONTRACTOR SHALL CONTACT THE NE REGION
ENVIRONMENTAL SECTION, (920) 492-7738, AND THE
PROJECT CONSTRUCTION LEADER A MINIMUM OF TWO
WEEKS PRIOR TO SEEDING THE TOWN OF NEENAH
WETLAND MITIGATION SITE TO ALLOW FOR DIRECTION
ON FINAL SEEDING LIMITS AND LOCATIONS.

SCALE, FEET

SLOPE INTERCEPT (TYP)

GRADING FOR
FUTURE TRAIL

MATCHLINE

← SHEET 3 ←

MATCHLINE

SHEET 1 OF 4

PROJECT NO:1517-07-83

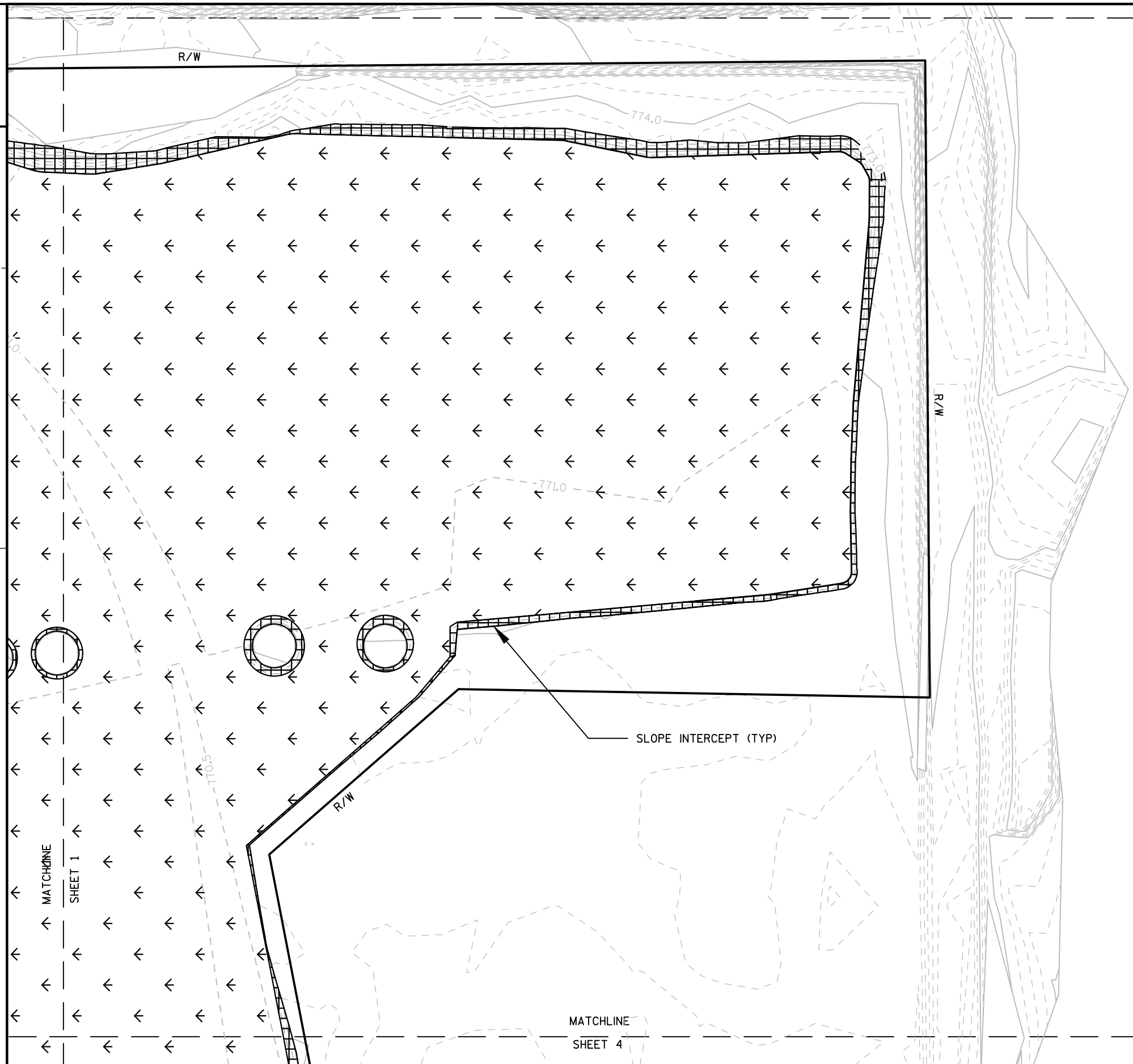
HWY:STH 441/USH 10

COUNTY:WINNEBAGO

PLANTING PLAN

SHEET

E



PLANTING AND SEEDING LEGEND



WET MEADOW & SHALLOW MARSH
PLANTING MIXTURE



SEEDING MIXTURE NO. 70

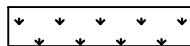
THE CONTRACTOR SHALL CONTACT THE NE REGION ENVIRONMENTAL SECTION, (920) 492-7738, AND THE PROJECT CONSTRUCTION LEADER A MINIMUM OF TWO WEEKS PRIOR TO SEEDING THE TOWN OF NEENAH WETLAND MITIGATION SITE TO ALLOW FOR DIRECTION ON FINAL SEEDING LIMITS AND LOCATIONS.

SCALE, FEET

2



PLANTING AND SEEDING LEGEND



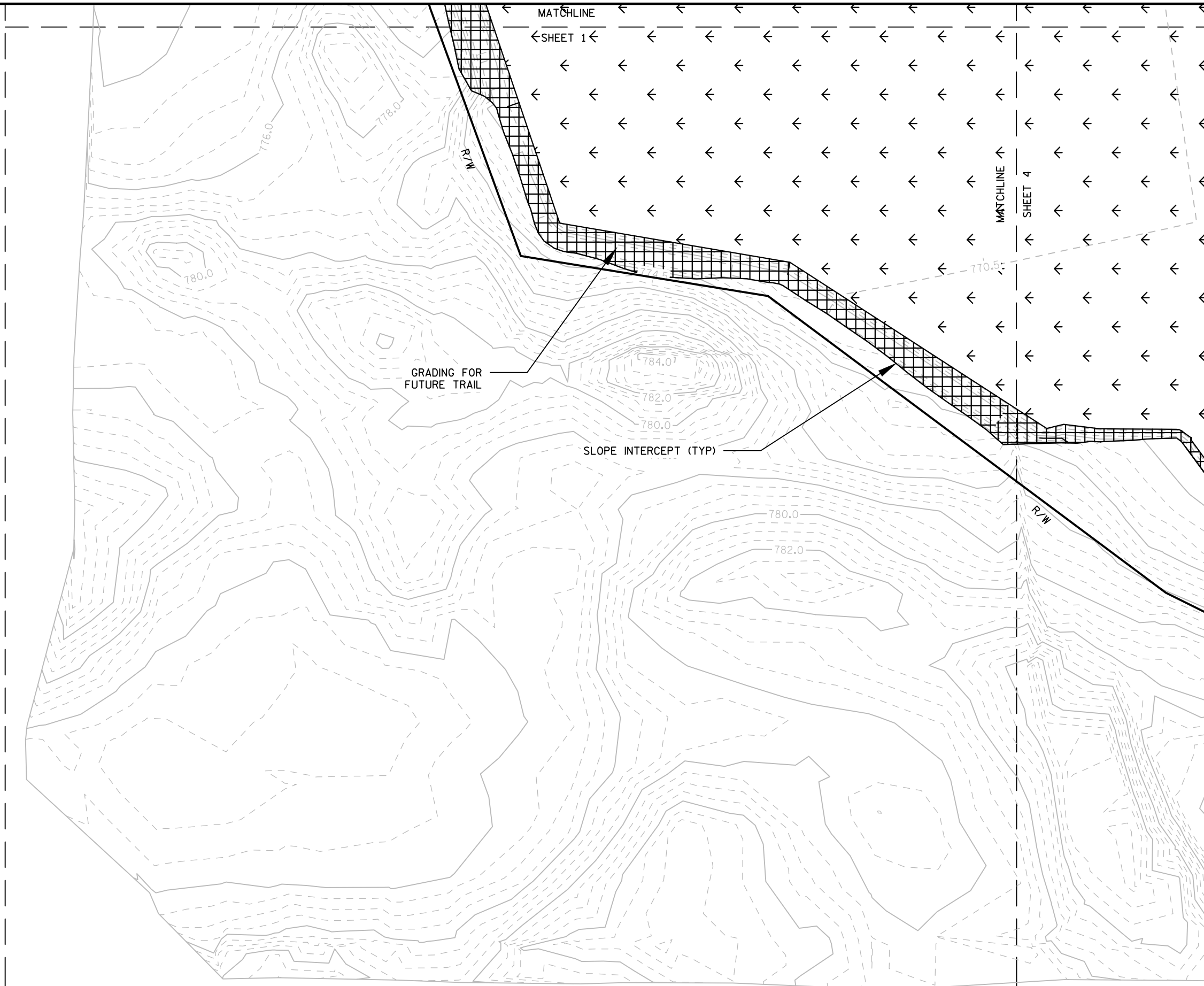
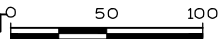
WET MEADOW & SHALLOW MARSH
PLANTING MIXTURE



SEEDING MIXTURE NO. 70

THE CONTRACTOR SHALL CONTACT THE NE REGION
ENVIRONMENTAL SECTION, (920) 492-7738, AND THE
PROJECT CONSTRUCTION LEADER A MINIMUM OF TWO
WEEKS PRIOR TO SEEDING THE TOWN OF NEENAH
WETLAND MITIGATION SITE TO ALLOW FOR DIRECTION
ON FINAL SEEDING LIMITS AND LOCATIONS.

SCALE, FEET



2

PROJECT NO:1517-07-83

HWY:STH 441/USH 10

COUNTY:WINNEBAGO

PLANTING PLAN

SHEET

E

FILE NAME : X:\PROJECTS\WINNEBAGO\1517-07-83 NEENAH WETLAND SITE\DESIGN\C3D\SHEETS\PLAN\023102_PL.DWG
**** - ****

PLOT DATE : 1/20/2015 4:35 PM

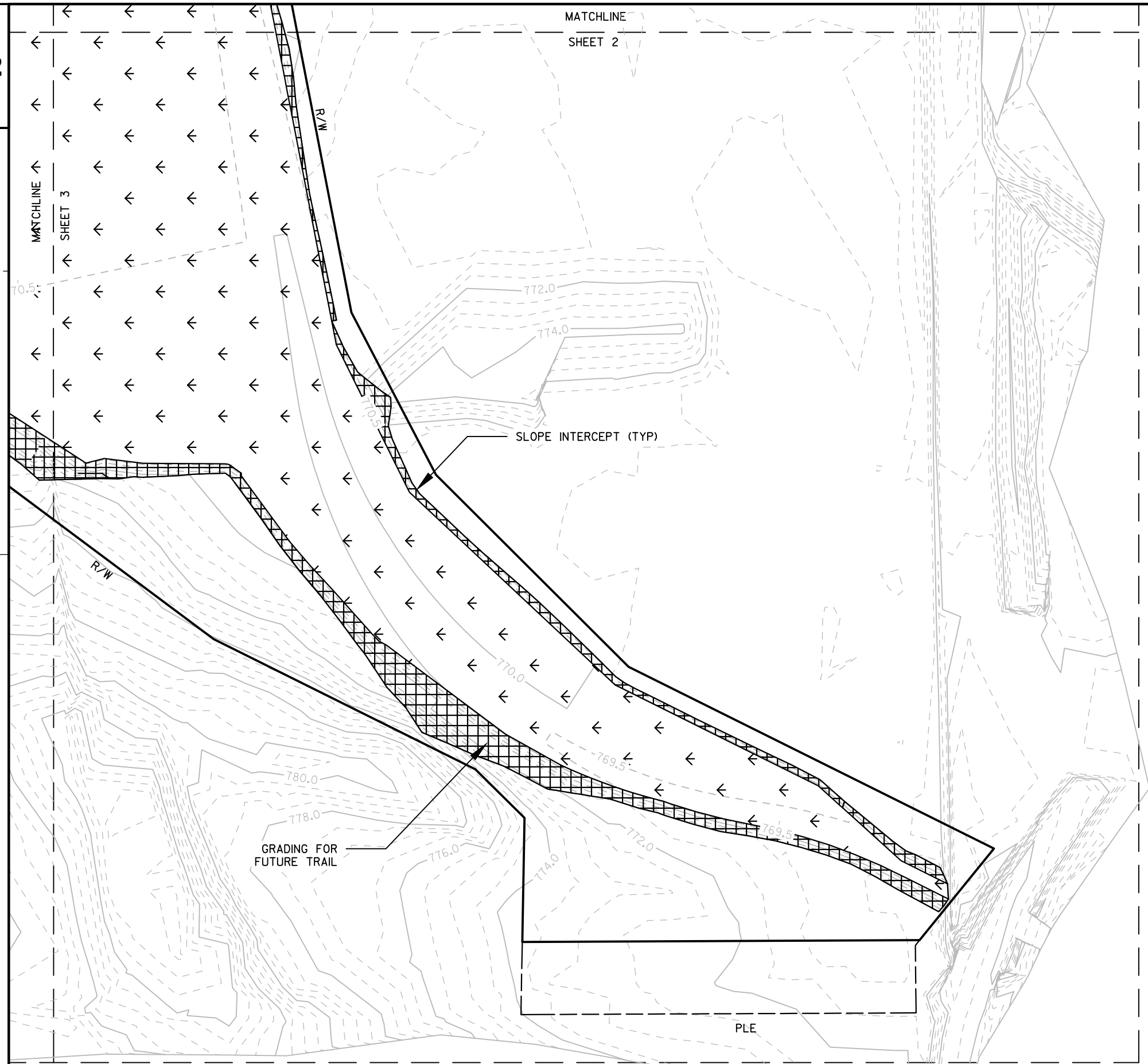
PLOT BY : JENNIFER BYLSMA

PLOT NAME :

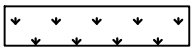
PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

SHEET 3 OF 4



PLANTING AND SEEDING LEGEND



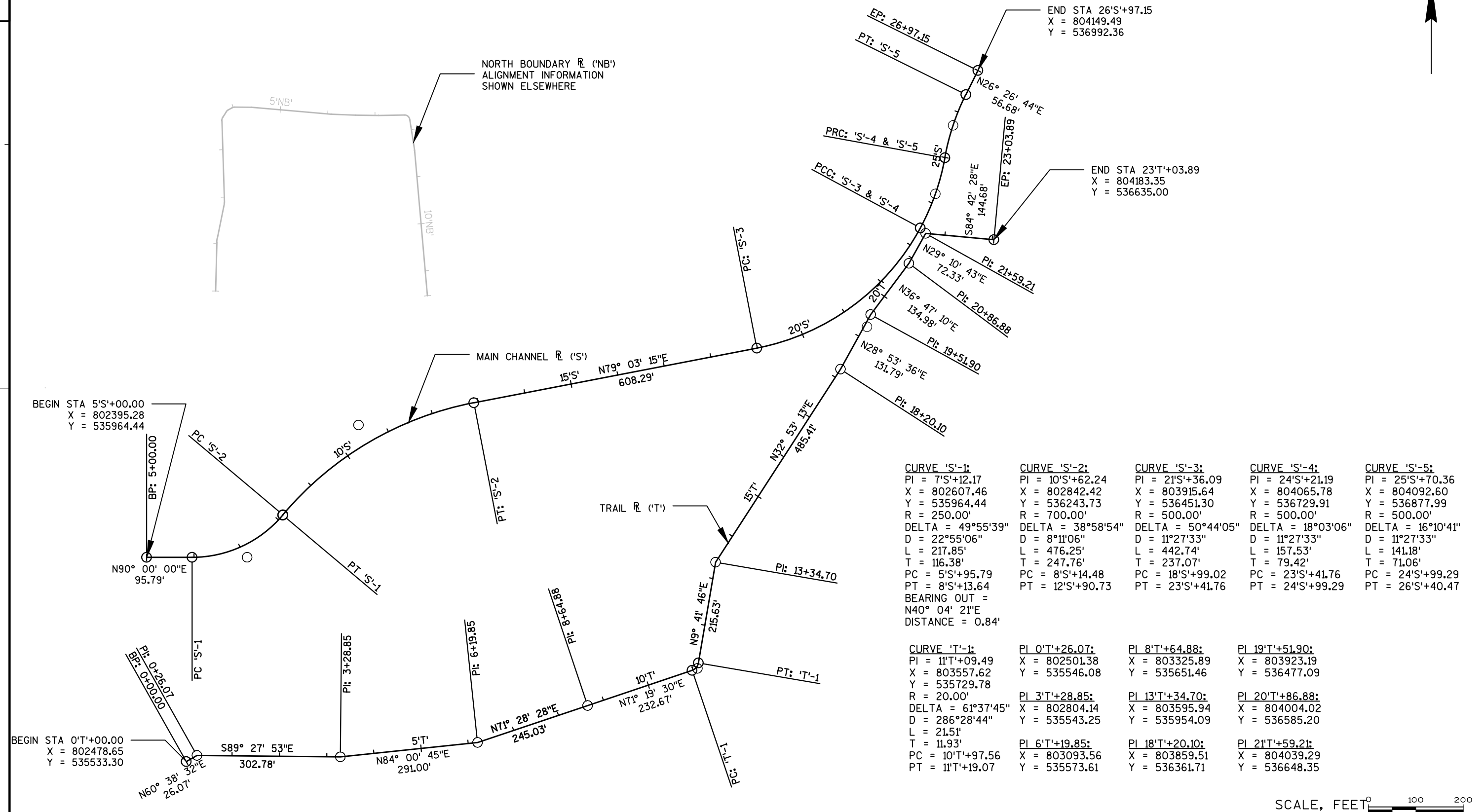
WET MEADOW & SHALLOW MARSH
PLANTING MIXTURE

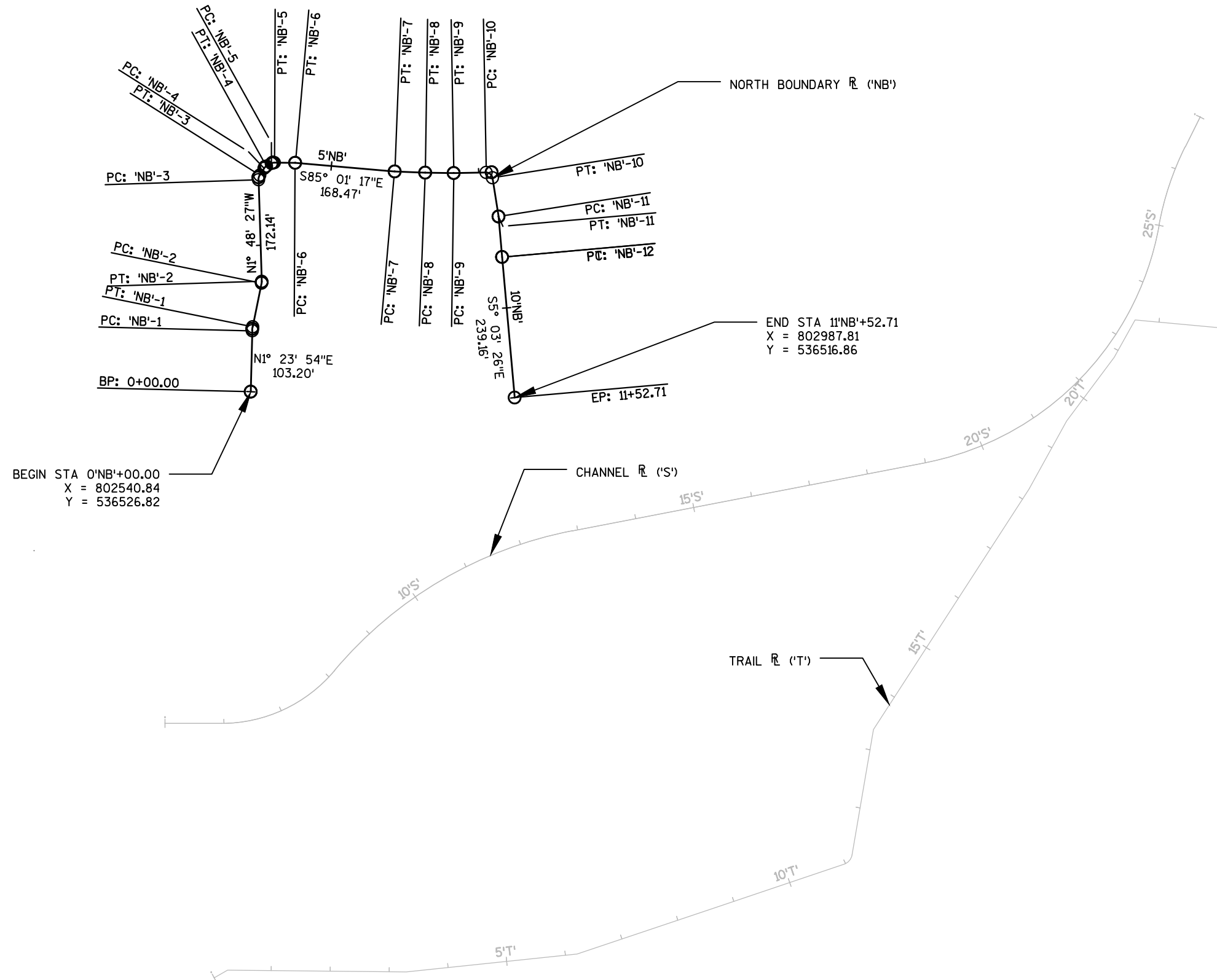


SEEDING MIXTURE NO. 70

THE CONTRACTOR SHALL CONTACT THE NE REGION ENVIRONMENTAL SECTION, (920) 492-7738, AND THE PROJECT CONSTRUCTION LEADER A MINIMUM OF TWO WEEKS PRIOR TO SEEDING THE TOWN OF NEENAH WETLAND MITIGATION SITE TO ALLOW FOR DIRECTION ON FINAL SEEDING LIMITS AND LOCATIONS.

SCALE, FEET 0 50 100





CURVE 'NB'-1:
PI = 1'NB'+06.70
X = 802543.45
Y = 536633.49
R = 39.77'
DELTA = 10°03'26"
D = 144°04'13"
L = 6.98'
T = 3.50'
PC = 1'NB'+03.20
PT = 1'NB'+10.18
BEARING OUT = N11° 27' 20"E
DISTANCE = 75.38'

CURVE 'NB'-5:
PI = 4'NB'+00.56
X = 802578.05
Y = 536915.10
R = 10.55'
DELTA = 29°20'00"
D = 542°54'21"
L = 5.40'
T = 2.76'
PC = 3'NB'+97.80
PT = 4'NB'+03.20
BEARING OUT = S89° 43' 29"E
DISTANCE = 34.83'

CURVE 'NB'-9:
PI = 7'NB'+07.88
X = 802884.81
Y = 536897.54
R = 10.55'
DELTA = 1°50'13"
D = 542°54'21"
L = 0.34'
T = 0.17'
PC = 7'NB'+07.71
PT = 7'NB'+08.05
BEARING OUT = N88° 57' 54"E
DISTANCE = 54.79'

CURVE 'NB'-2:
PI = 1'NB'+87.17
X = 802559.43
Y = 536712.37
R = 13.84'
DELTA = 13°15'47"
D = 413°54'59"
L = 3.20'
T = 1.61'
PC = 1'NB'+85.56
PT = 1'NB'+88.77

CURVE 'NB'-6:
PI = 4'NB'+38.46
X = 802616.07
Y = 536914.92
R = 10.55'
DELTA = 4°42'13"
D = 542°54'21"
L = 0.87'
T = 0.43'
PC = 4'NB'+38.03
PT = 4'NB'+38.90

CURVE 'NB'-10:
PI = 7'NB'+72.04
X = 802948.96
Y = 536898.70
R = 10.55'
DELTA = 82°10'23"
D = 542°54'21"
L = 15.14'
T = 9.20'
PC = 7'NB'+62.84
PT = 7'NB'+77.97
BEARING OUT = S8° 51' 43"E
DISTANCE = 66.38'

CURVE 'NB'-3:
PI = 3'NB'+65.15
X = 802553.82
Y = 536890.28
R = 13.84'
DELTA = 34°04'27"
D = 413°54'59"
L = 8.23'
T = 4.24'
PC = 3'NB'+60.91
PT = 3'NB'+69.14
BEARING OUT = N32° 15' 60"E
DISTANCE = 13.74'

CURVE 'NB'-7:
PI = 6'NB'+07.62
X = 802784.60
Y = 536900.24
R = 10.55'
DELTA = 2°44'44"
D = 542°54'21"
L = 0.51'
T = 0.25'
PC = 6'NB'+07.37
PT = 6'NB'+07.88
BEARING OUT = S87° 46' 01"E
DISTANCE = 51.48'

CURVE 'NB'-11:
PI = 8'NB'+44.63
X = 802960.64
Y = 536823.75
R = 8.33'
DELTA = 3°47'39"
D = 688°11'50"
L = 0.55'
T = 0.28'
PC = 8'NB'+44.35
PT = 8'NB'+44.90
BEARING OUT = S5° 04' 05"E
DISTANCE = 68.65'

CURVE 'NB'-4:
PI = 3'NB'+85.60
X = 802564.87
Y = 536907.78
R = 10.64'
DELTA = 28°40'31"
D = 538°27'29"
L = 5.33'
T = 2.72'
PC = 3'NB'+82.88
PT = 3'NB'+88.20
BEARING OUT = N60° 56' 31"E
DISTANCE = 9.59'

CURVE 'NB'-8:
PI = 6'NB'+59.48
X = 802836.42
Y = 536898.22
R = 10.55'
DELTA = 1°25'52"
D = 542°54'21"
L = 0.26'
T = 0.13'
PC = 6'NB'+59.35
PT = 6'NB'+59.62
BEARING OUT = S89° 11' 53"E
DISTANCE = 48.10'

CURVE 'NB'-12:
PI = 9'NB'+13.55
X = 802966.73
Y = 536755.09
R = 5.47'
DELTA = 0°00'38"
D = 1047°17'21"
L = 0.00'
T = 0.00'
PC = 9'NB'+13.55
PT = 9'NB'+13.56

SCALE, FEET 0 100 200

DATE 29APR15		E S T I M A T E O F Q U A N T I T I E S			
LINE				1517-07-83	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0115	Clearing	ACRE	1.800	1.800
0020	201.0215	Grubbing	ACRE	1.800	1.800
0030	205.0100	Excavation Common	CY	52,920.000	52,920.000
0040	213.0100	Finishing Roadway (project) 001. 1517-07-83	EACH	1.000	1.000
0050	612.0700	Drain Tile Exploration	LF	2,900.000	2,900.000
0060	618.0100	Maintenance And Repair of Haul Roads (project) 001. 1517-07-83	EACH	1.000	1.000
0070	619.1000	Mobilization	EACH	1.000	1.000
0080	624.0100	Water	MGAL	50.000	50.000
0090	625.0500	Salvaged Topsoil	SY	330.000	330.000
0100	627.0200	Mulching	SY	19,000.000	19,000.000
0110	628.1504	Silt Fence	LF	2,400.000	2,400.000
0120	628.1520	Silt Fence Maintenance	LF	2,400.000	2,400.000
0130	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0140	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0150	628.2006	Erosion Mat Urban Class I Type A	SY	8,350.000	8,350.000
0160	628.2008	Erosion Mat Urban Class I Type B	SY	13,550.000	13,550.000
0170	628.7555	Culvert Pipe Checks	EACH	30.000	30.000
0180	628.7560	Tracking Pads	EACH	1.000	1.000
0190	628.7570	Rock Bags	EACH	190.000	190.000
0200	629.0210	Fertilizer Type B	CWT	13.000	13.000
0210	630.0110	Seeding Mixture No. 10	LB	130.000	130.000
0220	630.0170	Seeding Mixture No. 70	LB	38.000	38.000
0230	634.0410	Posts Wood 4x4-Inch X 10-FT	EACH	1.000	1.000
0240	638.2102	Moving Signs Type II	EACH	2.000	2.000
0250	638.3000	Removing Small Sign Supports	EACH	1.000	1.000
0260	638.4000	Moving Small Sign Supports	EACH	1.000	1.000
0270	642.5201	Field Office Type C	EACH	1.000	1.000
0280	643.0100	Traffic Control (project) 001. 1517-07-83	EACH	1.000	1.000
0290	643.0420	Traffic Control Barricades Type III	DAY	134.000	134.000
0300	643.0705	Traffic Control Warning Lights Type A	DAY	268.000	268.000
0310	643.0900	Traffic Control Signs	DAY	335.000	335.000
0320	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0330	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0340	SPV.0085	Special 150. Seeding, Wet Meadow And Shallow Marsh Mix	LB	235.000	235.000
0350	SPV.0105	Special 001. Survey Project 1517-07-83	LS	1.000	1.000
0360	SPV.0180	Special 150. Salvaged Topsoil 9-Inch	SY	145,500.000	145,500.000

CLEARING AND GRUBBING			
LOCATION	201. 0120	201. 0220	REMARKS
	CLEARING	GRUBBING	
	ACRE	ACRE	
TOWN OF NEENAH MITIGATION SITE	1.8	1.8	
TOTALS	1.8	1.8	

EARTHWORK SUMMARY

Division	Location	Excavation Common (1) Item # 205.0100		Salvaged/ Unusable Material	Available Material (4)	Unexpanded Fill	Expanded Fill (5)	Mass Ordinate +/- (6)	Waste	Comment:
		Cut (2)	EBS Excavation (3)				Factor 1.20			
	CHANNEL ALIGNMENT ('S')	52,920	0	0	52,920	70	84	52,836		
Total		52,920	0	0	52,920	70	84	52,836	52,836	
Total Common Ex 52,920										

1) Excavation Common is the sum of the Cut and EBS Excavation columns. Item number 205.0100

2) Salvaged/Unsuable Material is included in Cut.

4) Available Material = Cut - Salvaged/Unusuable Material

5) Expanded Fill Factor = 1.20. Expanded Fill = Unexpanded Fill * Fill Factor. No Rock, Marsh, or EBS will be used in fill on this project.

6) 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.

DRAIN TILE EXPLORATION		
612. 0700		
LOCATION	LF	REMARKS
TOWN OF NEENAH MITIGATION SITE	2, 900	
TOTALS	2, 900	

WATER		
624. 0100		
LOCATION	MGAL	REMARKS
TOWN OF NEENAH MITIGATION SITE	50	FOR DUST CONTROL
TOTALS	50	

EROSION CONTROL SUMMARY									
	627. 02 MULCHING	628. 1504 SILT FENCE	628. 1520 SILT FENCE MAINTENANCE	628. 2006 EROSION MAT URBAN CLASS I TYPE A	628. 2008 EROSION MAT URBAN CLASS I TYPE B	628. 7555 CULVERT PIPE CHECKS	628. 7560 TRACKING PADS	*675. 7570 ROCK BAGS	REMARKS
LOCATION	SY	LF	LF	SY	SY	EACH	EACH		
TOWN OF NEENAH MITIGATION SITE	---	1, 900	1, 900	7, 950	12, 900	24	1	180	
SITE INGRESS/EGRESS	300	---	---	---	---	---	---	---	
PROJECT WASTE AREA	17800	---	---	---	---	---	---	---	UNDI STRIBUTED
PROJECT	900	500	500	400	650	6	---	10	UNDI STRIBUTED
TOTALS	19, 000	2, 400	2, 400	8, 350	13, 550	30	1	190	

*ASSUMES 24" x 12" x 6" BAG SIZE

EROSION CONTROL MOBILIZATIONS		
	628. 1905 MOBILIZATION EROSION CONTROL	628. 1910 MOBILIZATION EMERGENCY EROSION CONTROL
LOCATION	EACH	EACH
TOWN OF NEENAH MITIGATION SITE	2	3
TOTAL	2	3

LANDSCAPING SUMMARY							
	625. 0500	629. 0210	630. 0110	630. 0170	SPV. 0085. 151	SPV. 0180. 150	
	SALVAGED	FERTI L I ZER	SEEDI NG	SEEDI NG	SEEDI NG, WET MEADOW	SALVAGED	
	TOPSOI L	TYPE B	MI XTURE	MI XTURE	AND SHALLOW	TOPSOI L	
			NO. 10	NO. 70	MARSH MI X	9-I NCH	
LOCATION	SY	CWT	LB	LB	LB	SY	REMARKS
TOWN OF NEENAH MITIGATION SITE	---	---	---	36	220	138, 500	
SITE I NGRESS/EGRESS	300	1	4	---	---	---	
PROJECT WASTE AREA	---	11	120	---	---	---	UNDI STRI BUTED
PROJECT	30	1	6	2	15	7, 000	UNDI STRI BUTED
TOTALS	330	13	130	38	235	145, 500	

TRAFFIC CONTROL SUMMARY									
		643. 0420		643. 0705		643. 0900		643. 0100	
		TRAFFIC CONTROL		TRAFFIC CONTROL		TRAFFIC CONTROL		TRAFFIC	
	APPROXIMATE	BARRI CADES TYPE III		WARNING LIGHTS TYPE A		SIGNS		CONTROL	
	SERVICE	NO. I N		NO. I N		NO. I N		PROJECT	
LOCATION	DAYS	SERVI CE	DAYS	SERVICE	DAYS	SERVICE	DAYS	EACH	REMARKS
CTH O SITE ACCESS POINT	67	2	134	4	268	5	335	1	
TOTALS			134		268		335	1	

SIGNING SUMMARY					
	634. 0410	638. 2102	638. 3000	638. 4000	
	POSTS WOOD	MOVI NG SI GN	REMOVI NG	MOVI NG SMALL	
	4X4 - I NCH X 10-FT	TYPE II	SMALL SI GN	SI GN SUPPORT	
			SUPPORTS		
LOCATION	EACH	EACH	EACH	EACH	REMARKS
CTH O ACCESS POINT	---	1	---	1	W1-6 MOVED EAST TO ALLOW I NGRESS AND EGRESS FROM PROJECT SITE
CTH O ACCESS POI NT	1	1	1	---	W1-6 RETURNED TO I TS ORIGINAL LOCATION FOLLOWI NG PROJECT CONCLUSI ON
TOTALS	1	2	1	1	

TRANSPORTATION PROJECT PLAT NO: 1517-07-21-4.29

PART OF LOT 2, CSM #4342, AND PART OF LOT 3, CSM #5180, AND PART OF LOT 1, CSM #4998, ALL LOCATED WITHIN SECTION 20, T20N-R17E, TOWN OF NEENAH, WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER U.S.H 10/STH 441 WINNEBAGO COUNTY
USH 10 - USH 10/STH 441

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL ABBREVIATIONS AND SYMBOLS

ACCESS POINT

ACCESS RIGHTS

ACRES

CHORD BEARING

CHORD DISTANCE

DEED

DOCUMENT

EAST BOUND

GAS VALVE

INLET

LENGTH OF CURVE

MANHOLE

MONUMENT

NORTH BOUND

PAGE

PERMANENT

PERMANENT LIMITED EASEMENT

PRIVATE DRIVEWAY

PROPERTY LINE

RADIUS

REFERENCE LINE

REMAINING

RIGHT OF WAY

SECTION

SECTION LINE

FOUND IRON PIPE

STATION

TEMPORARY LIMITED EASEMENT

TIE POINT

VOLUME

ADJOINING LANDS WITH SAME OWNER

PARALLEL TO LINE

BUILDING TO BE RAZED

FEE ACQUISITION

BEGIN POINT

END POINT

AP

AR

AC

CH BRG

CH DIS

DO

DOC

EB

GV

IL

L

MON

NB

PG

PERM

PLE

PO

PL

RAD

REF

REM

R/W

SEC

S

IP

STA

TLE

DBL

VOL

00'

00'

BP

EP

SECTION CORNER

MATERIAL AS NOTED

SET R/W MONUMENT W/CAP

1-1/4" OUTSIDE DIA. x 18"

FOUND PIPE 1.13 LBS/FT

FOUND TYPE 2 MON.

FOUND 3/4" REBAR

SET P.K. NAIL

PROPOSED R/W

BOUNDARY POINT

CORPORATE LIMITS

EXISTING R/W

SECTION LINE

QUARTER LINE

SIXTEENTH LINE

PROPOSED OR NEW R/W LINE

PROPOSED EASEMENT LINE

PARCEL NUMBER

UTILITY NUMBER

SIGN NUMBER

PROPERTY LINE

LOT, TIE AND OTHER MINOR

DASHED LINES

ACCESS RESTRICTED

ACCESS RESTRICTED

NO ACCESS

NO ACCESS

LIMITED EASEMENT

LIMITED EASEMENT

SEC100

BERNTSEN MON.

Y=536960.049

X=801645.277

1

20

19

20

17

W

G

T

OH

E

TV

FO

SS

NON-COMPENSABLE

COMPENSABLE

POWER POLE

TELEPHONE POLE

TELEPHONE PEDESTAL

ELECTRIC TOWER

CONVENTIONAL UTILITY SYMBOLS

W

G

T

OH

E

TV

FO

SS

NON-COMPENSABLE

COMPENSABLE

POWER POLE

TELEPHONE POLE

TELEPHONE PEDESTAL

ELECTRIC TOWER

TOWN

LOT 3
CSM#5876
VOL 1 PG 5876
DOC #1395390

NW 1/4 - SW 1/4

ROCKWOOD LANE

LOT 3
CSM#5921
VOL 1 PG 5921
DOC #1403423

SW 1/4 - SW 1/4

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER	INTEREST REQUIRED	FEE R/W ACRE(S) OR (S.F.) REQUIRED			P.L.E. AREA
			NEW	EXISTING	TOTAL	
250	TOWN OF NEENAH A WISCONSIN MUNICIPAL CORP.	FEE	34.831	-	34.831	0.543
-	-	-	-	-	-	-

LOT 2
CSM#4342
VOL 1 PG 4342
DOC #1070011

LOT 3
CSM#5180
VOL 1 PG 5180
DOC #1221411

1674267
REGISTER'S OFFICE
WINNEBAGO COUNTY, WI
RECORDED ON
10/15/2014 1:23 PM
JULIE PAGEL
REGISTER OF DEEDS
RECORDING FEE 25.00
PAGES: 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.29
AMENDMENT NO:...

SEC101
BERNTSEN MON.
Y=536979.252
X=804256.960

COURSE TABLE			
POINT	TO POINT	BEARING	DISTANCE
SEC101	PLE321	S00°14'46"E	21.43'
PLE321	PLE322	S00°14'46"E	358.66'
PLE322	PRW309	N88°58'10"W	66.01'
PRW309	PRW308	N00°14'46"W	360.75'
PRW308	PLE320	S50°59'40"E	6.19'
PLE320	PLE321	N89°25'17"E	61.20'

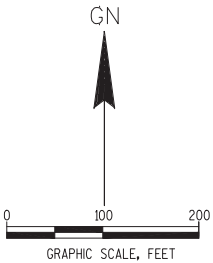
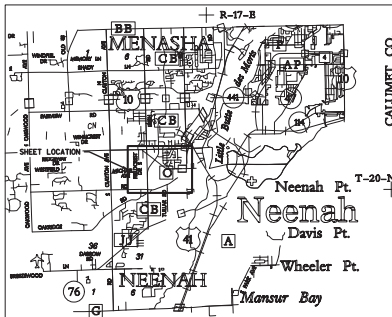
POINT	COORDINATES
PRW308	536961.104 804191.044
PLE320	536957.209 804195.854
PLE321	536957.827 804257.052
PRW309	536600.356 804192.594
PLE322	536999.169 804258.593

TOWN OF NEENAH
CITY OF NEENAH

POINT	COORDINATES
SEC100	536960.049 801645.277
SEC101	536979.252 804256.960
SEC163	534333.941 804268.325
PRW300	536966.115 802470.240
PRW301	536970.416 803055.248
PRW302	536537.567 803047.461
PRW303	536363.700 803199.395
PRW304	536445.243 803621.023
PRW305	536522.030 803768.444
PRW306	536696.836 803942.808
PRW307	537028.533 804107.793
PRW308	536961.104 804191.044
PRW309	536600.356 804192.594
PRW310	536602.382 804079.958
PRW311	536557.770 804035.883
PRW312	536320.358 803917.659
PRW313	535932.830 803828.725
PRW314	535691.984 803589.730
PRW315	535603.597 803347.933
PRW316	535540.317 803107.063
PRW317	535504.391 802807.744
PRW318	535510.241 802482.371
PRW319	535958.264 802479.175

SEC163
BERNTSEN MON.
Y=534333.941
X=804268.325

PART OF LOT 2, CSM #4342, AND PART OF LOT 3, CSM #5180, CSM #4998, IN THE ALL LOCATED WITHIN SECTION 20, T20N-R17E, TOWN OF NEENAH, WINNEBAGO COUNTY, WISCONSIN.



WISCONSIN DEPARTMENT OF TRANSPORTATION

I, CAROLYN J. SAMPSON PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095, OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Carolyn J. Sampson DATE: 10/14/2014
PRINT NAME: CAROLYN J. SAMPSON
REGISTRATION NUMBER: S-3045



THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: Curt Van Erem DATE: 10/14/2014
PRINT NAME: CURT VAN EREM

NEENAH

SE 1/4 - SW 1/4

Standard Detail Drawing List

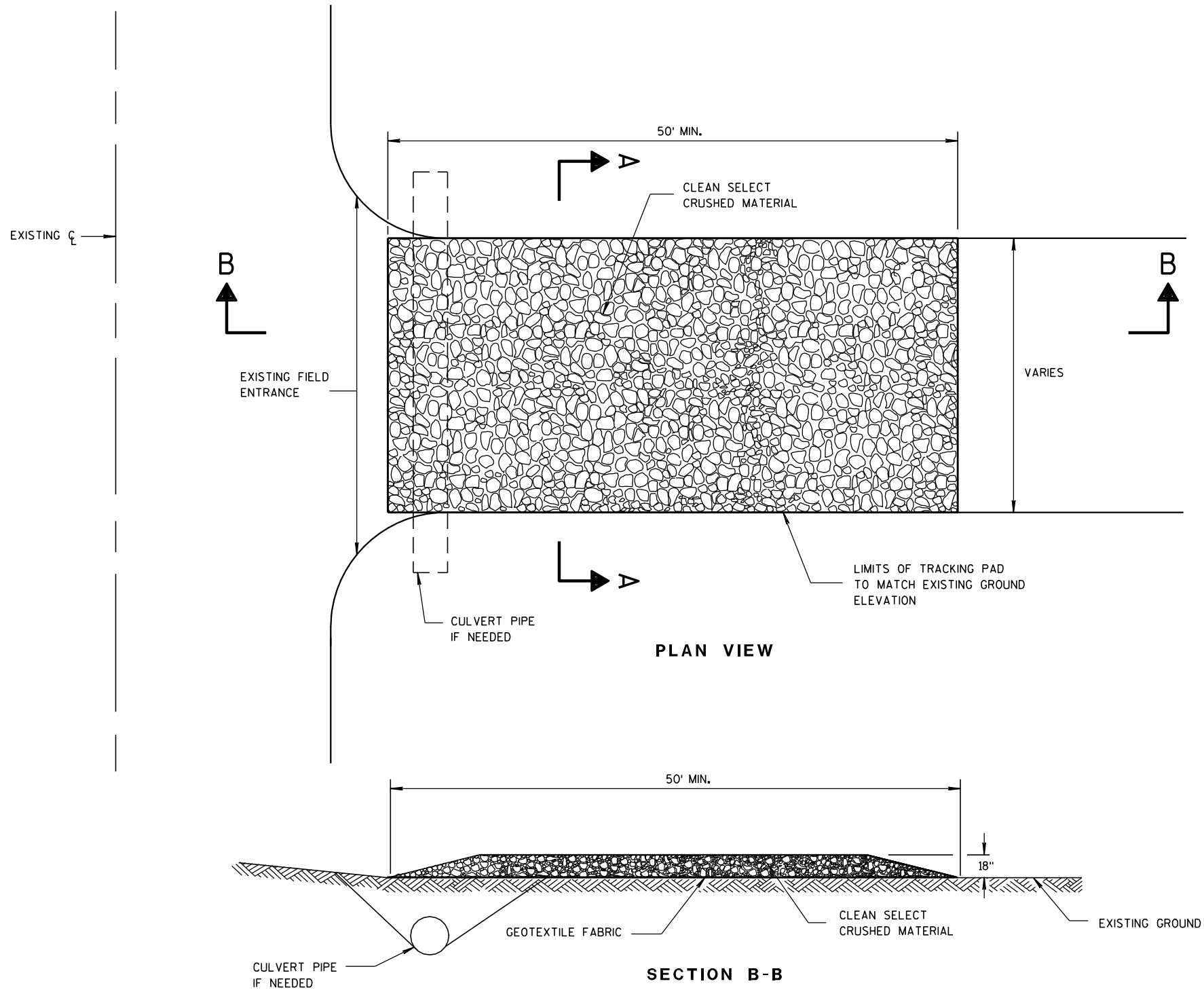
08E09-06	SILT FENCE
08E14-01	TRACKING PAD
15D29-03	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD



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



<p>SILT FENCE</p>	
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>	
<p>APPROVED 4-29-05 DATE</p>	<p>/s/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER</p>



TRACKING PAD

GENERAL NOTES

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

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

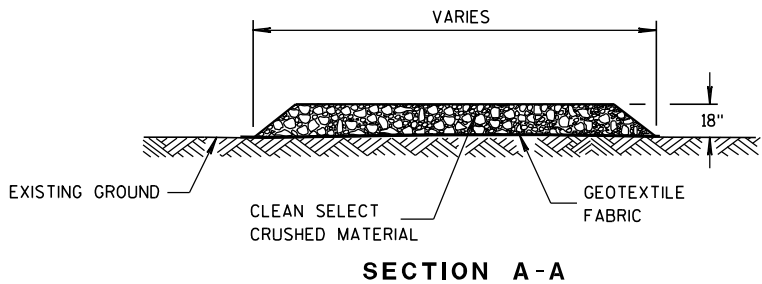
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

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

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

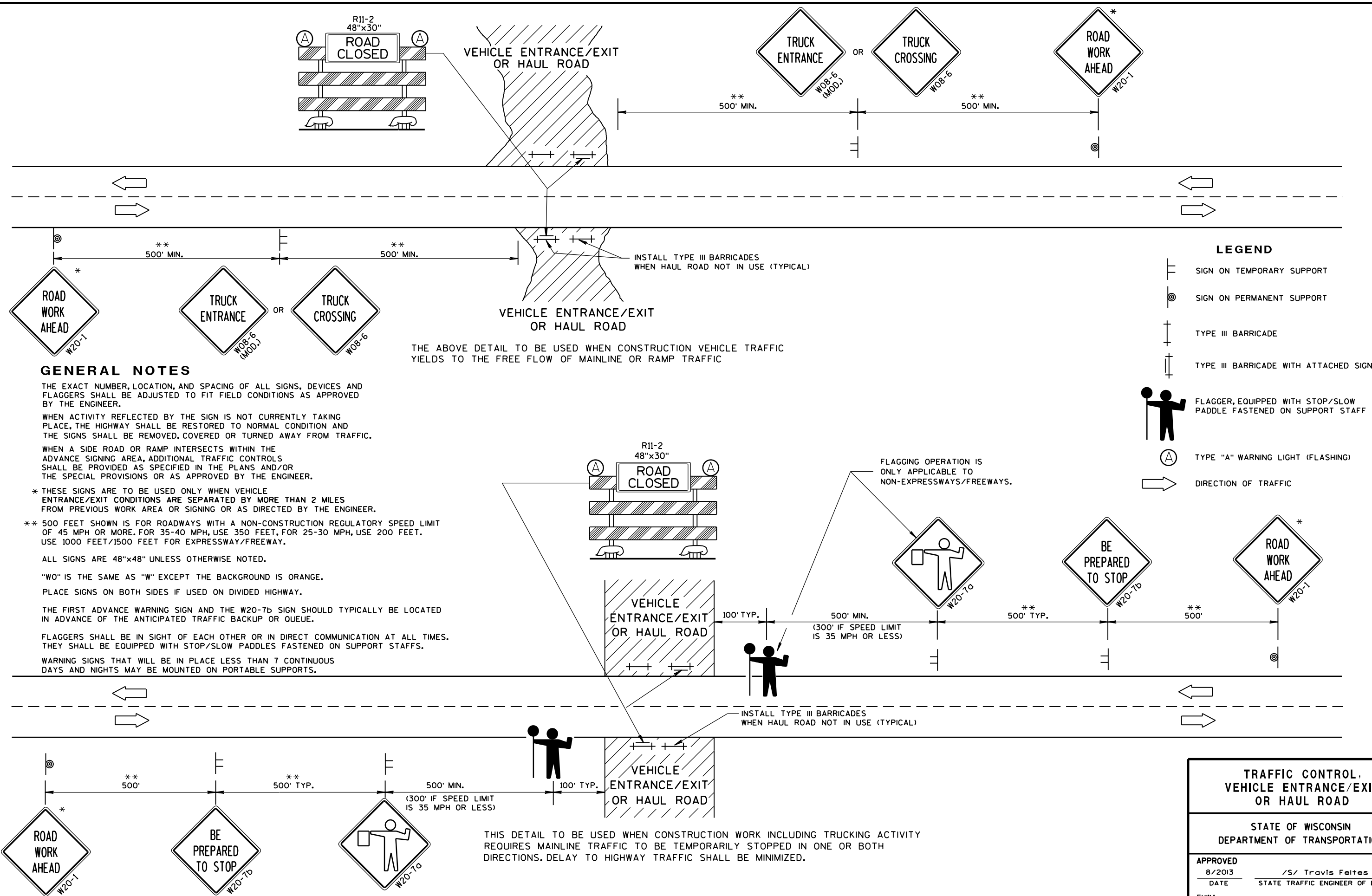
THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA



TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013

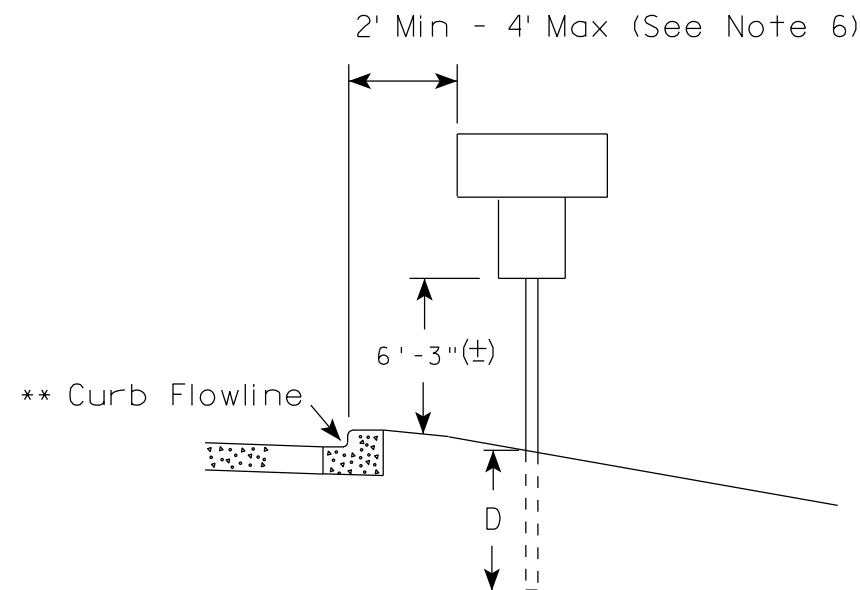
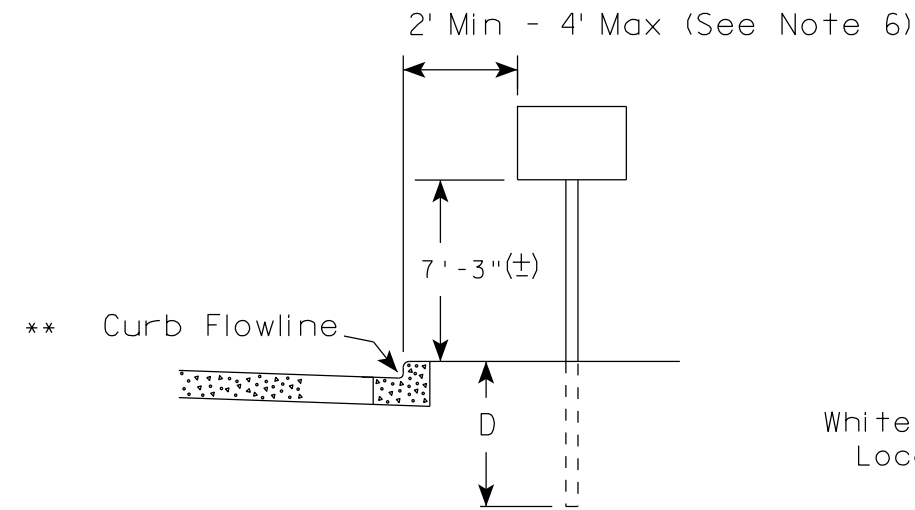
DATE

FHWA

/S/ Travis Feltes

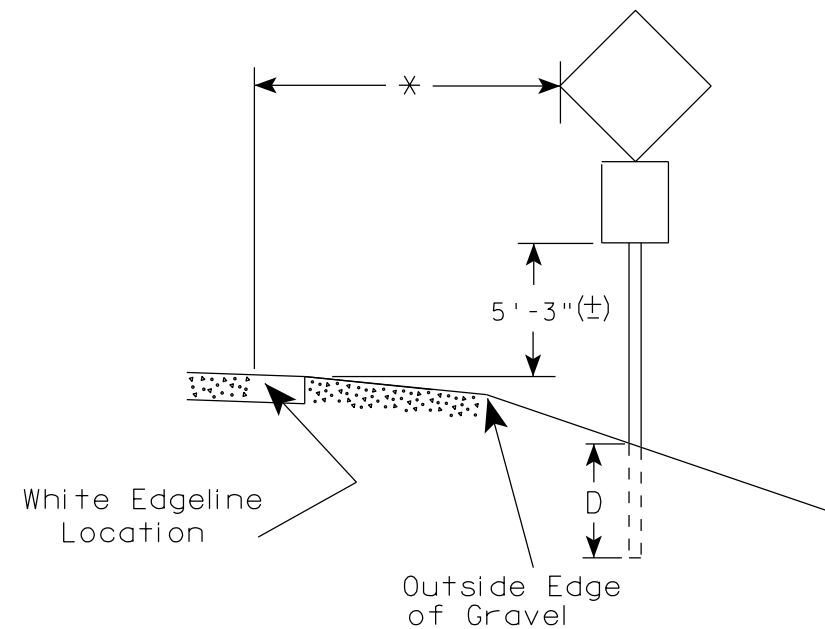
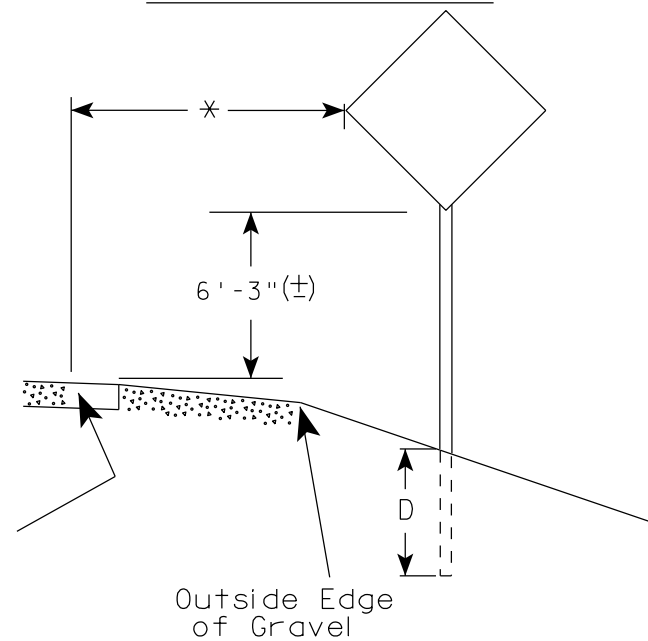
STATE TRAFFIC ENGINEER OF DESIGN

URBAN AREA



White Edgeline Location

RURAL AREA (See Note 2)



POST EMBEDMENT DEPTH

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

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

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

GENERAL NOTES

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 11/12/14

PLATE NO. A4-3.19

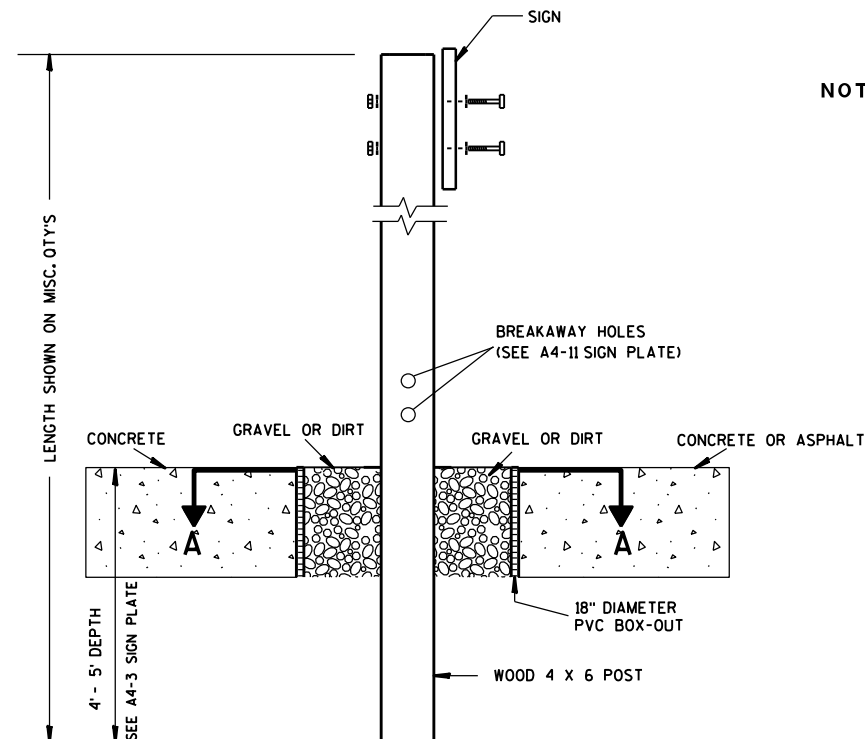
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

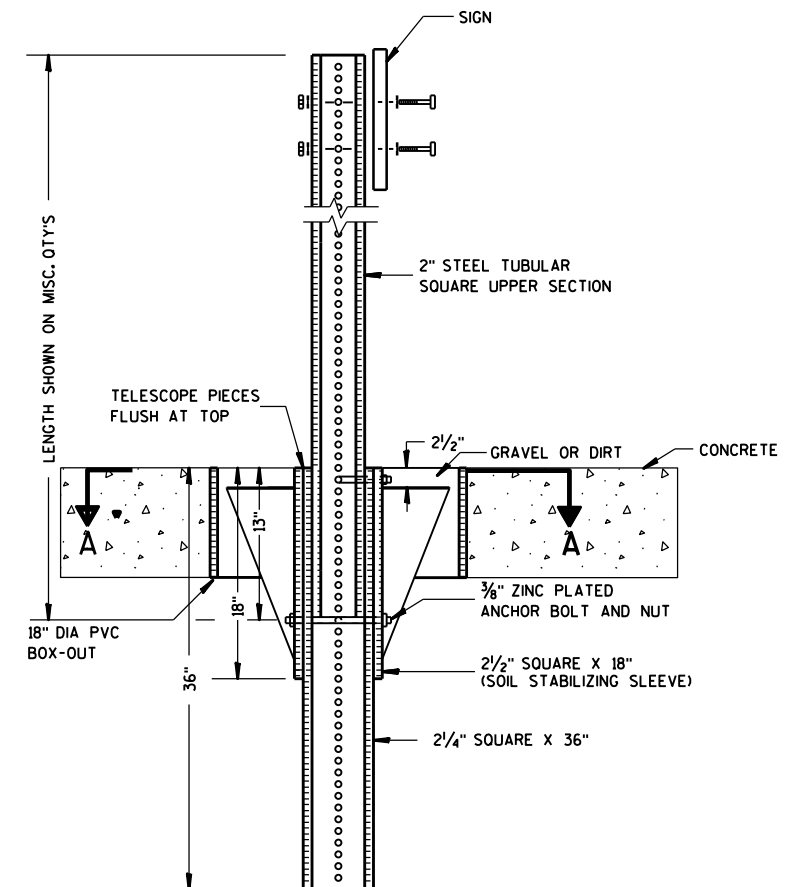
E



ELEVATION VIEW

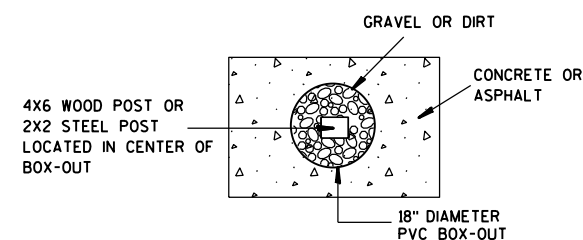
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

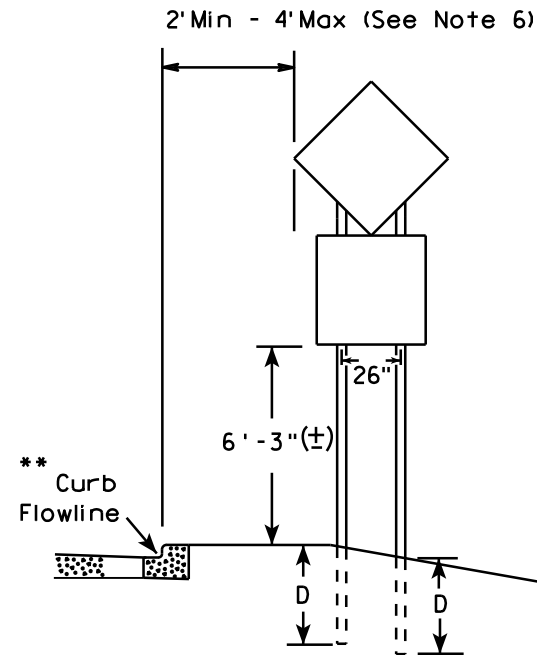
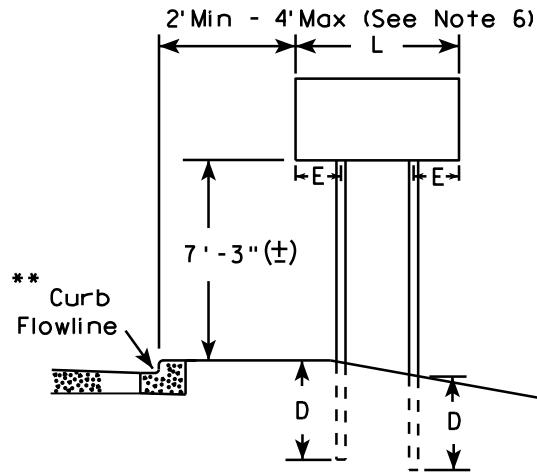
SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

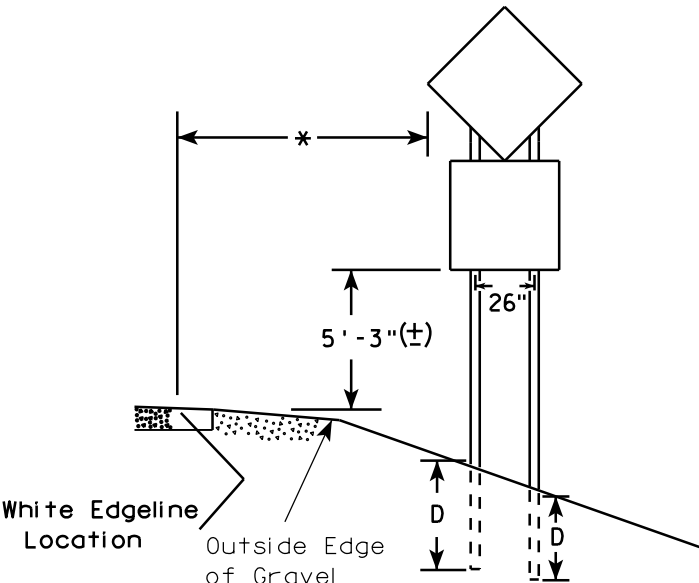
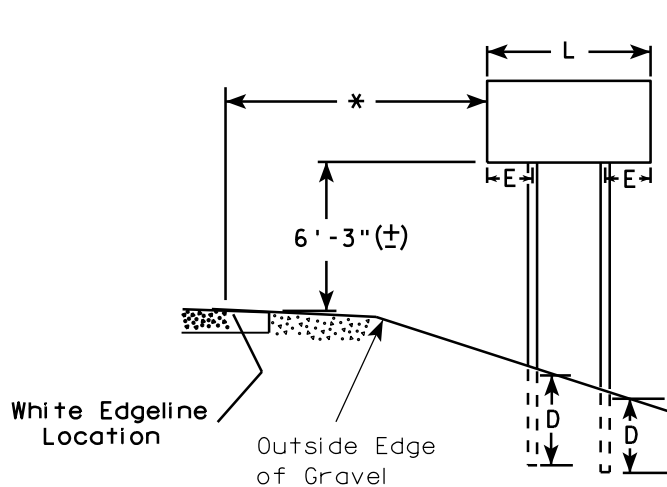
DATE 1/27/14 PLATE NO. A4-3B.1

URBAN AREA



48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

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

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

*** See A4-3 sign plate for signs 4' or less in width or less than 20 S.F. in area.

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

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

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-4.13

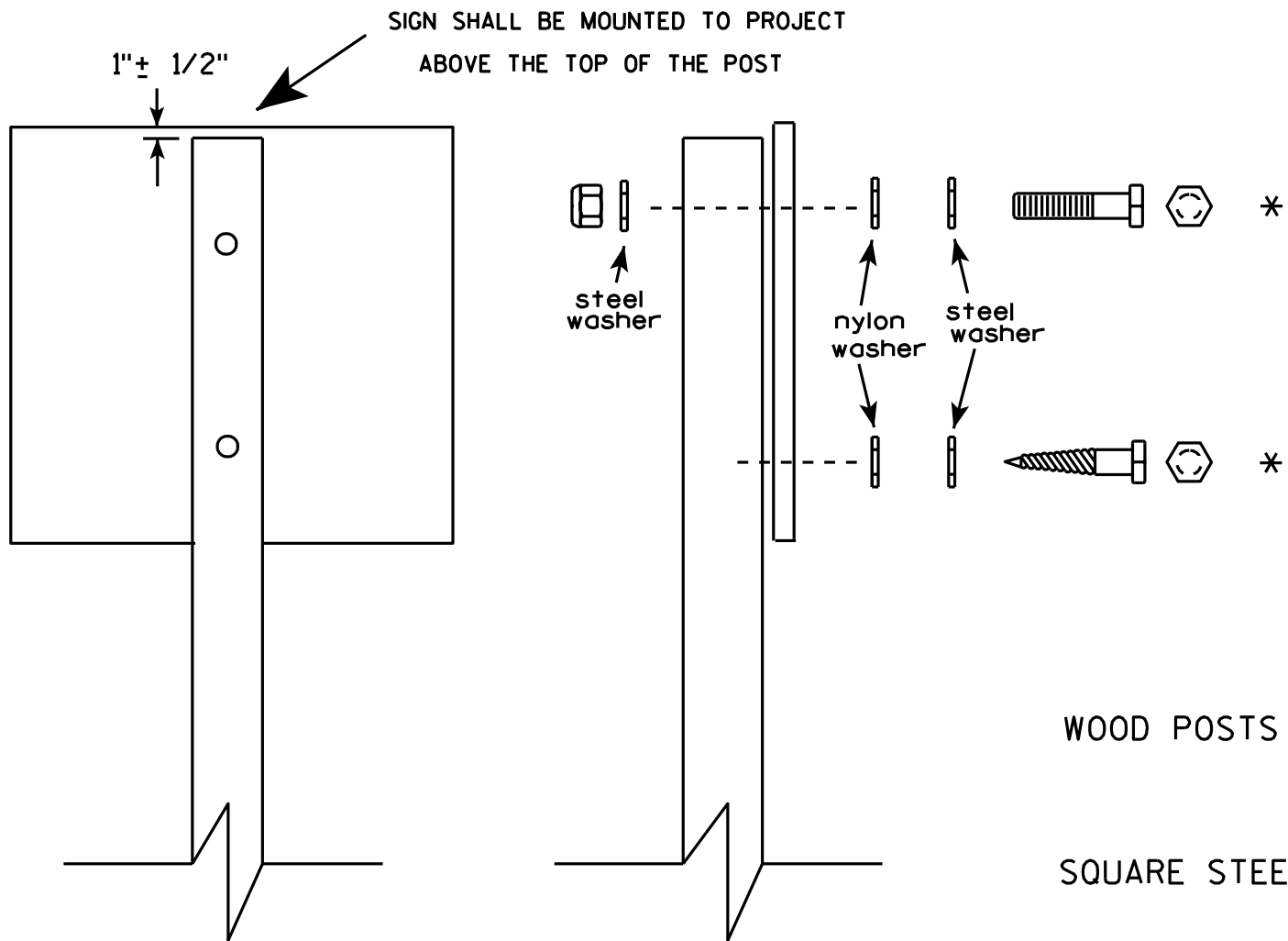
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

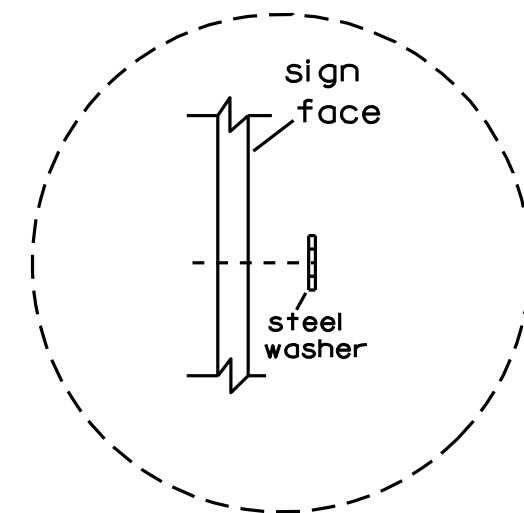


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3"
- MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
- 1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.

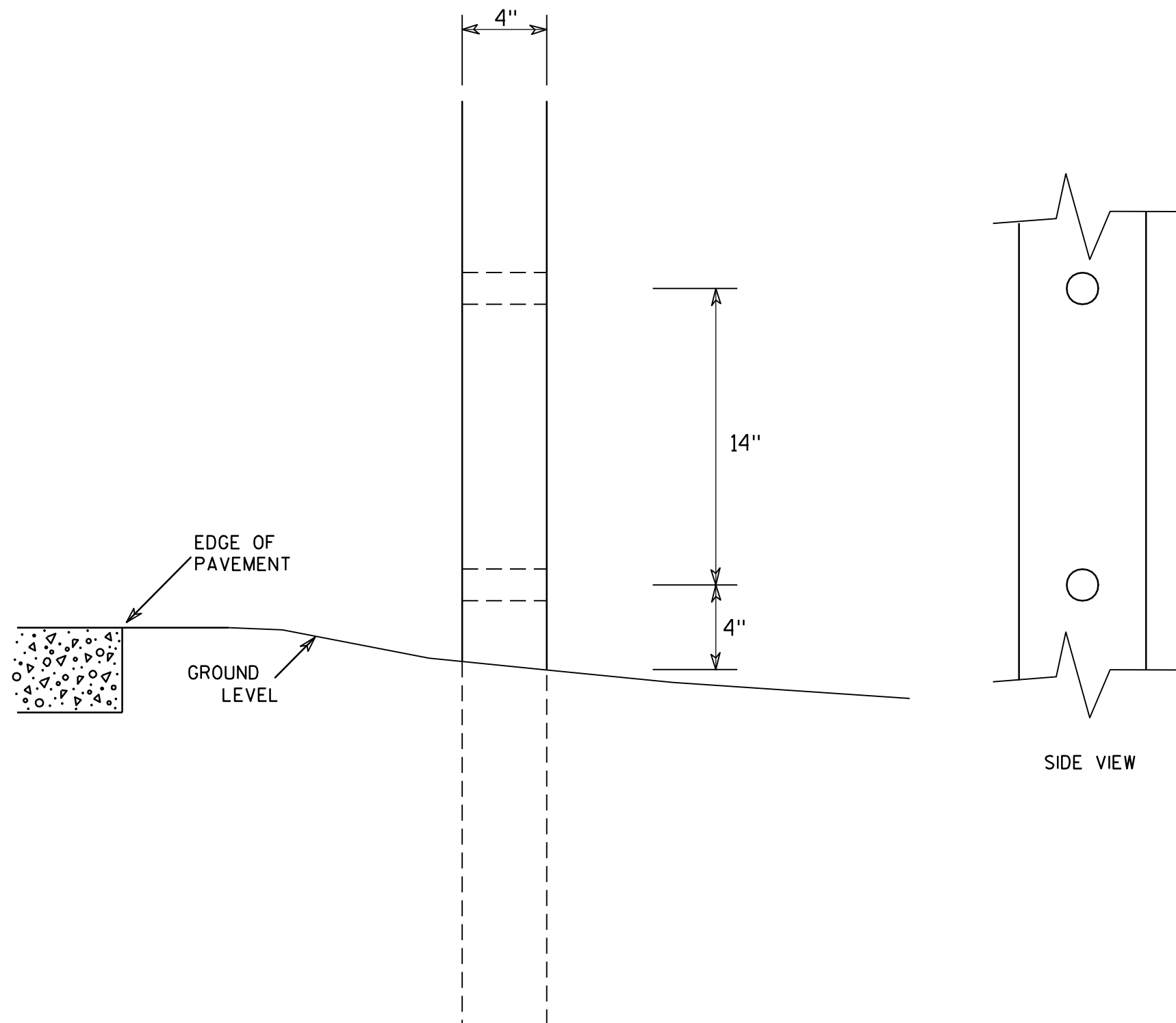


Washer Placement when Sign Has Other Than Type H or Type F Face

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

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7

7



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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