

SWL MARCH 2016

PROJECT ID: 6218-00-72
WITH: N/A

COUNTY: DANE

ORDER OF SHEETS

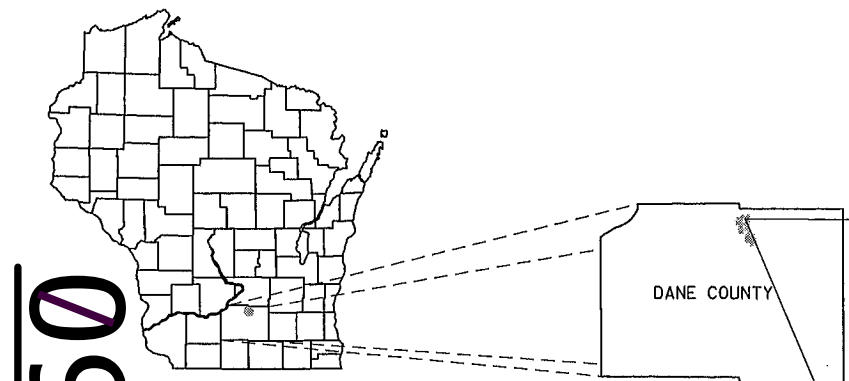
Section No. 1	Title
Section No. 2	Typical Sections and Details (includes erosion control plans)
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section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

TOTAL SHEETS = 112

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
VILLAGE OF DEFOREST, NORTH STREET
(YAHARA RIVER BRIDGE B-13-0670)
CTH V
DANE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6218-00-72	WISC 2016051	1

STATE PROJECT NUMBER
6218-00-72



DESIGN DESIGNATION

A.A.D.T. 2016 = 6,900
A.A.D.T. 2036 = 9,000
D.H.V. = 3.5
D.D. = 59/41
T. = 4.1%
DESIGN SPEED = 40mph
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

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

HIGH VOLTAGE OVERHEAD

MARSH AREA

WOODED OR SHRUB AREA

PROFILE

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE (To be noted as such)

SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

ELECTRIC

FIBER OPTIC

GAS

SANITARY SEWER

STORM SEWER

TELEPHONE

WATER

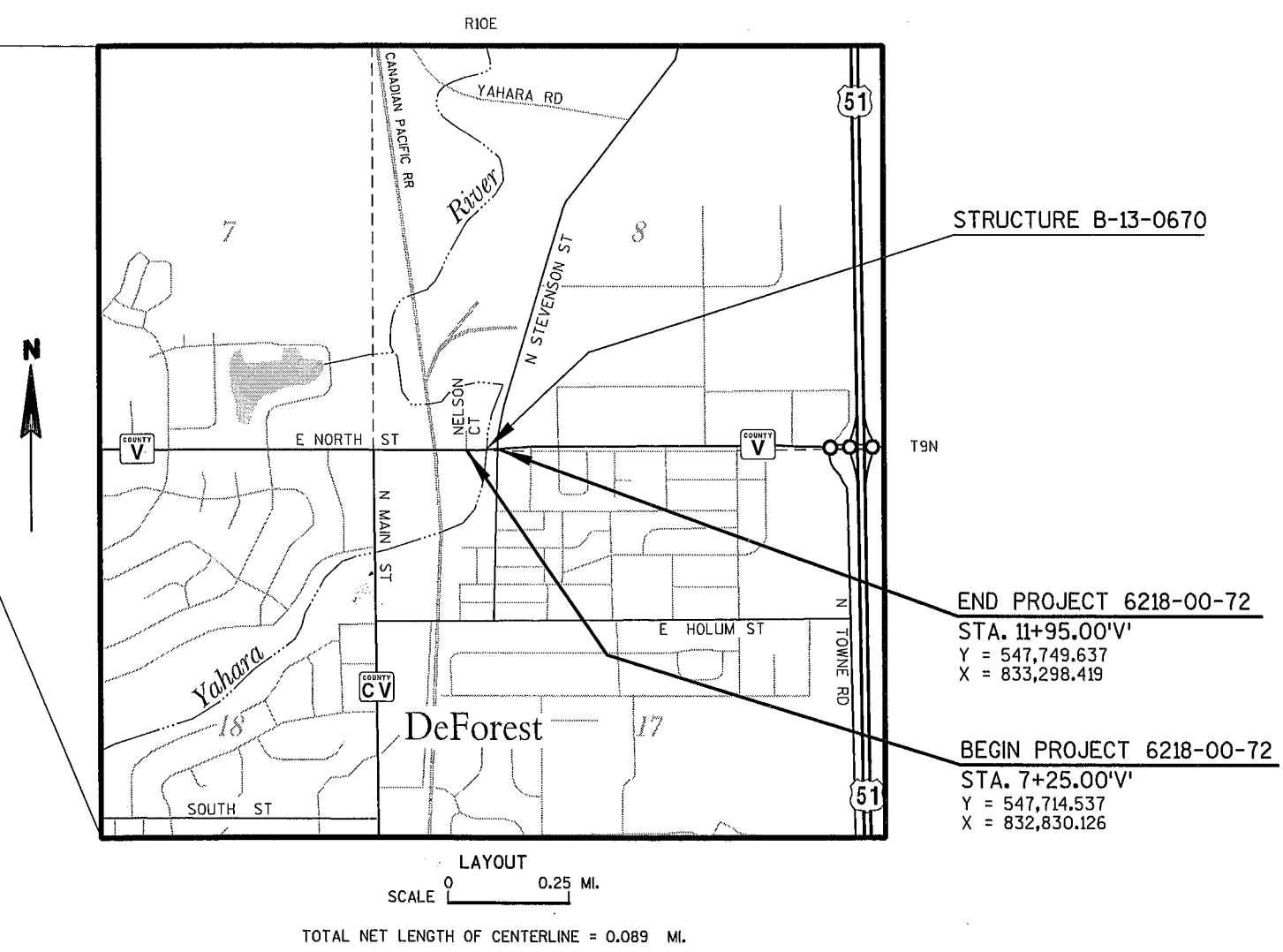
UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE

CAUTION

CAUTION



COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY.

Accepted for
County of Dane
Date 10/21/15
Accepted for
Village of DeForest
Date 10-21-15
ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
MATTHEW R. BARR
E-26188
MADISON
PROFESSIONAL ENGINEER
10/21/15
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PREPARED BY
Surveyor AYRES ASSOCIATES
Designer AYRES ASSOCIATES
Management Consultant KJOHNSON ENGINEERS, INC.
APPROVED FOR THE DEPARTMENT
DATE: 10/30/15
Management Consultant Signature

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

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

SEED MIXTURES NO. 40 AND TEMPORARY SHALL BE USED IN THE PROJECT, AND SHALL BE PLACED AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

WETLANDS ARE PRESENT AT THE LOCATIONS SHOWN IN THE PLANS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS IN THESE LOCATIONS.

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. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY, HORIZONTAL DATUM NAD83(2011).

ROADWAY HMA PAVEMENT LAYERS:

- UPPER: 1 3/4" (12.5mm NOMINAL AGGREGATE SIZE) (ASPHALTIC MATERIAL PG 64-28)
 - LOWER: 3 1/4" (19.0mm NOMINAL AGGREGATE SIZE) (ASPHALTIC MATERIAL PG 64-28)
- SHARED USE PATH HMA PAVEMENT
- ONE LAYER (ASPHALTIC MATERIAL PG 64-28)

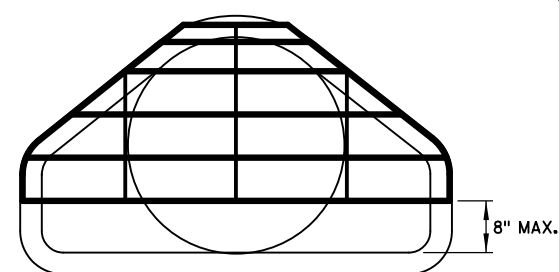
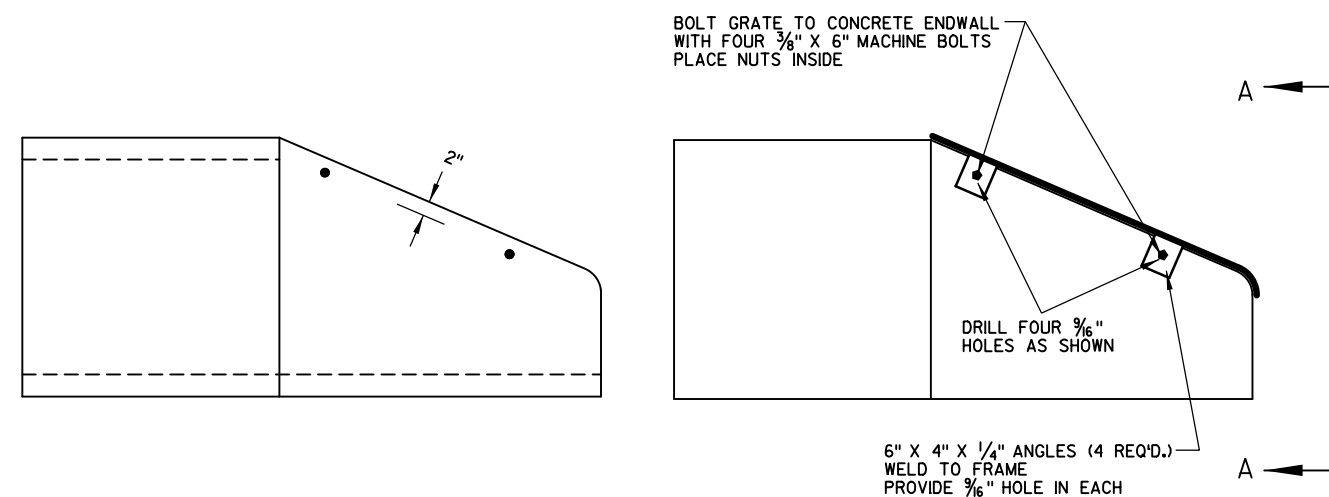
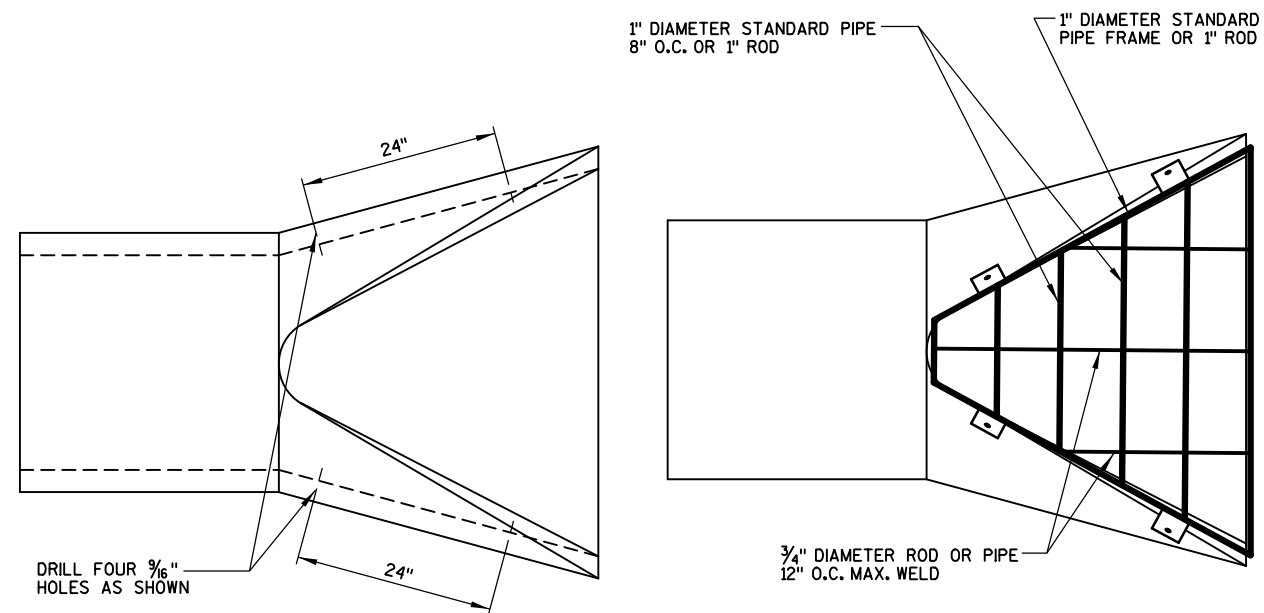
CONTACTS

DANE COUNTY PUBLIC WORKS

PAM DUNPHY
2302 FISH HATCHERY ROAD
MADISON, WI 53713
(608) 266-4036
DUNPHY@COUNTYOFDANE.COM

VILLAGE OF DEFOREST

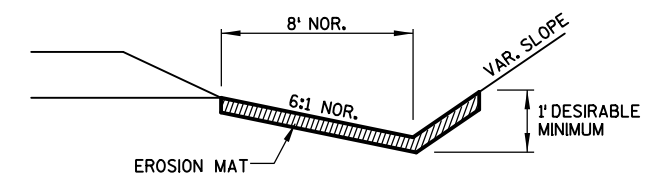
DEANE BAKER
DIRECTOR OF PUBLIC SERVICES
306 DEFOREST STREET
DEFOREST, WI 53532
(608) 846-6751
BAKERD@VIL.DEFOREST.WI.US



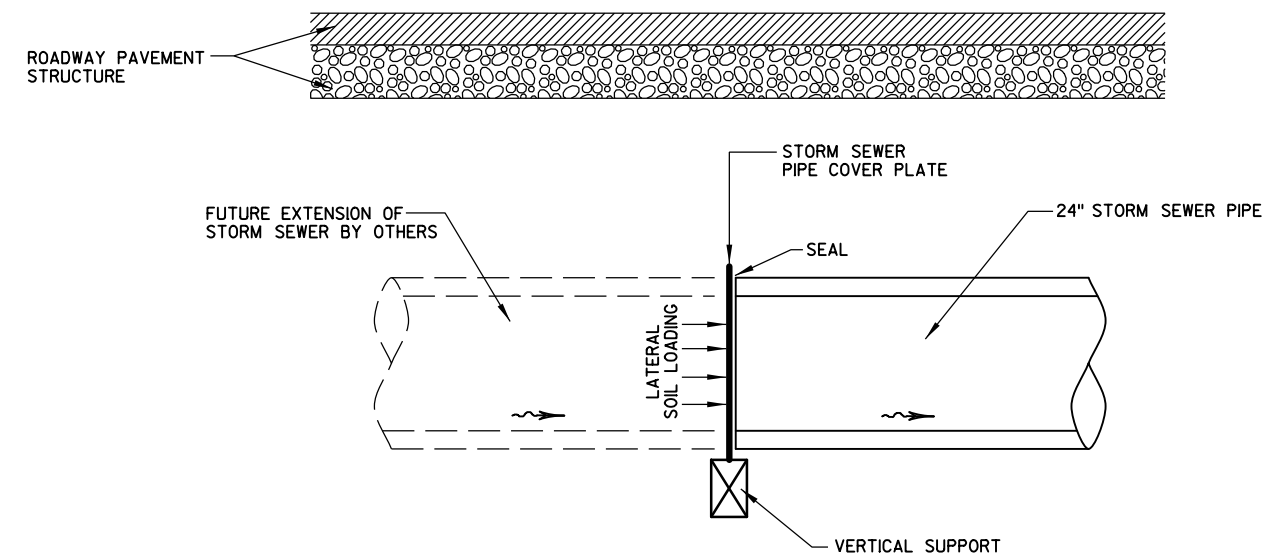
SECTION A-A
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

PIPE GRATE DETAIL

STA 9+97'V'LT
STA 10+13'V'RT

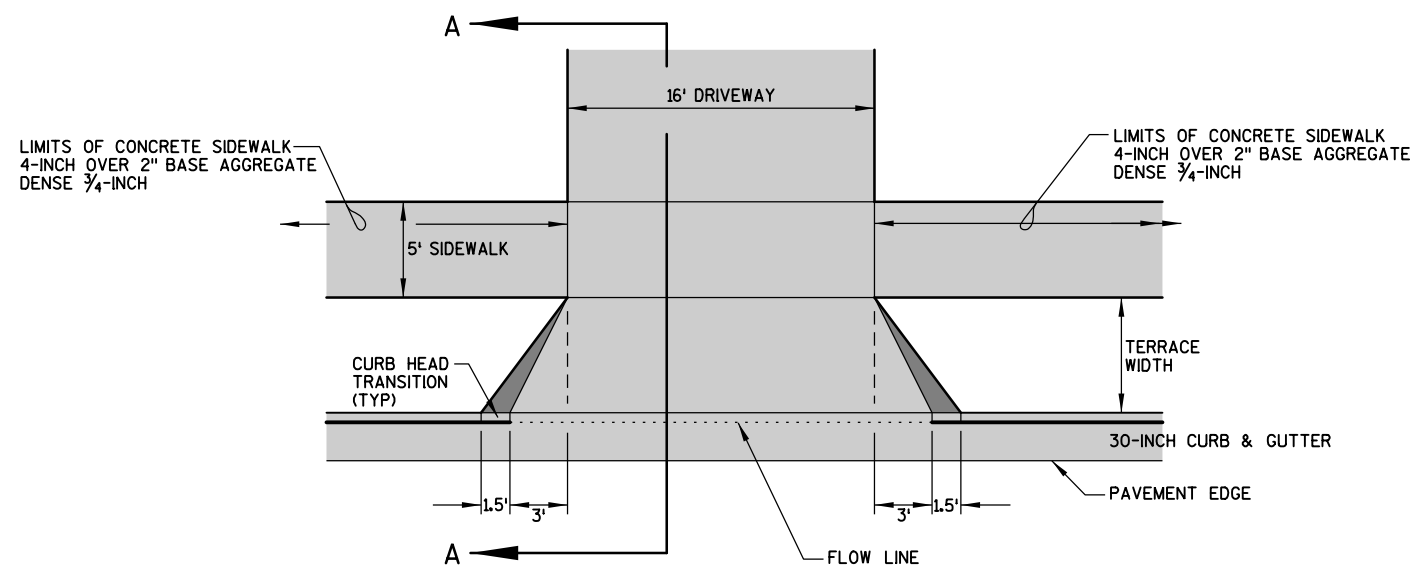
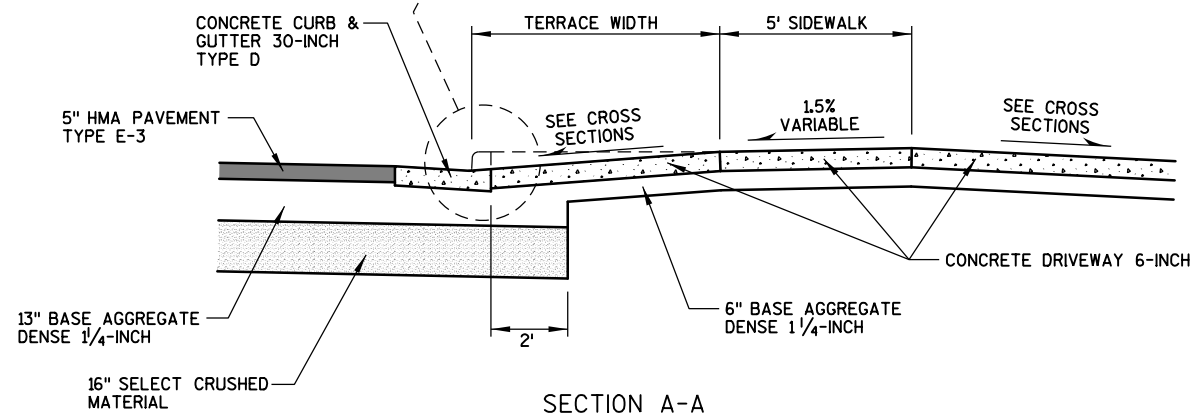
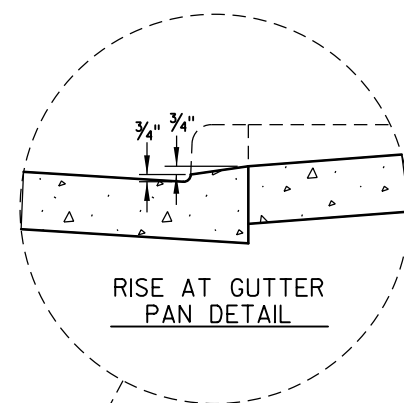


EROSION MAT DETAIL FOR DITCHES

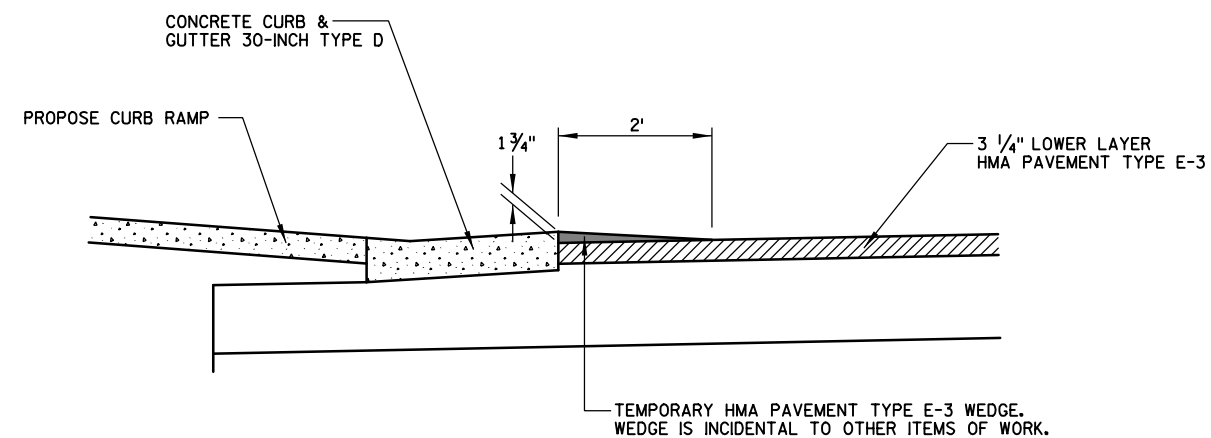


DETAIL FOR STORM SEWER PIPE COVER PLATE

STA 7+37'V'

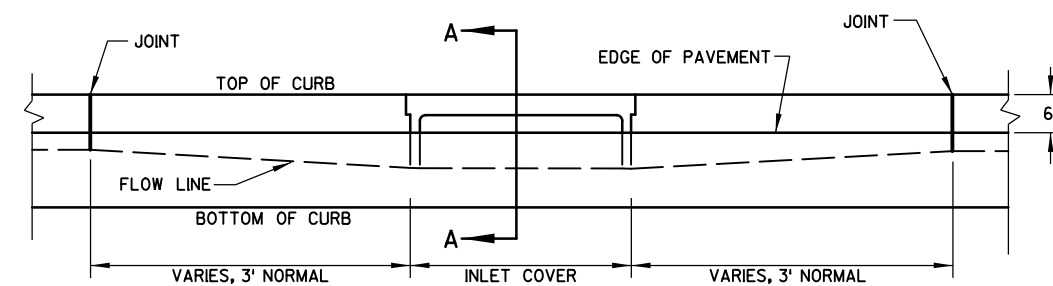
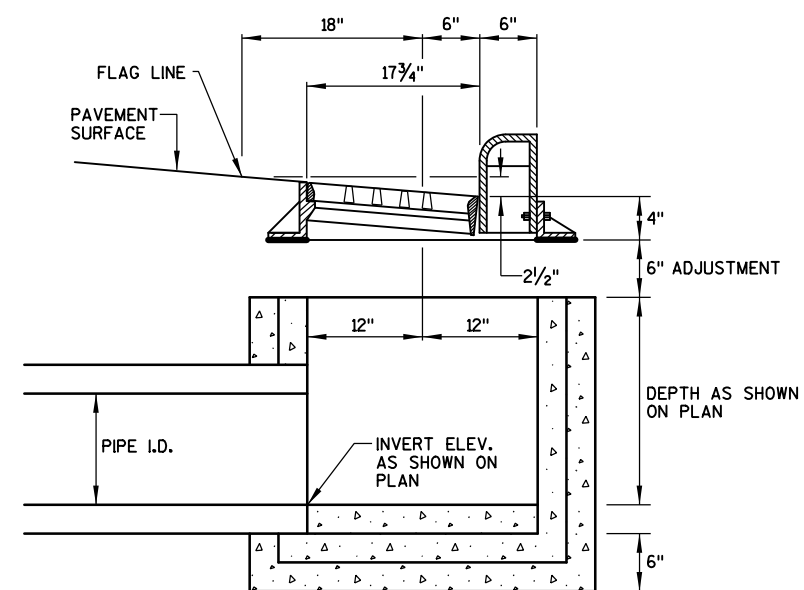


STA 8+11'V'RT
STA 9+08'V'RT



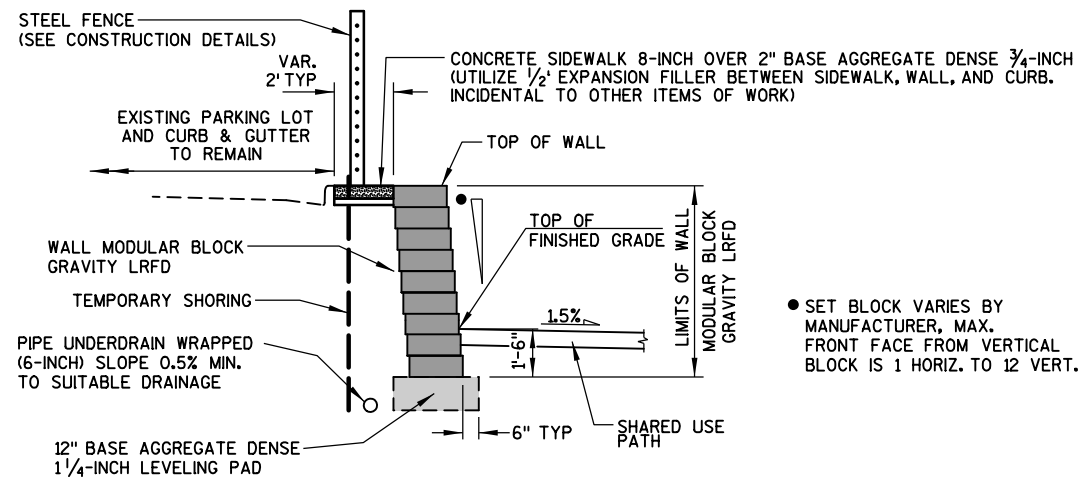
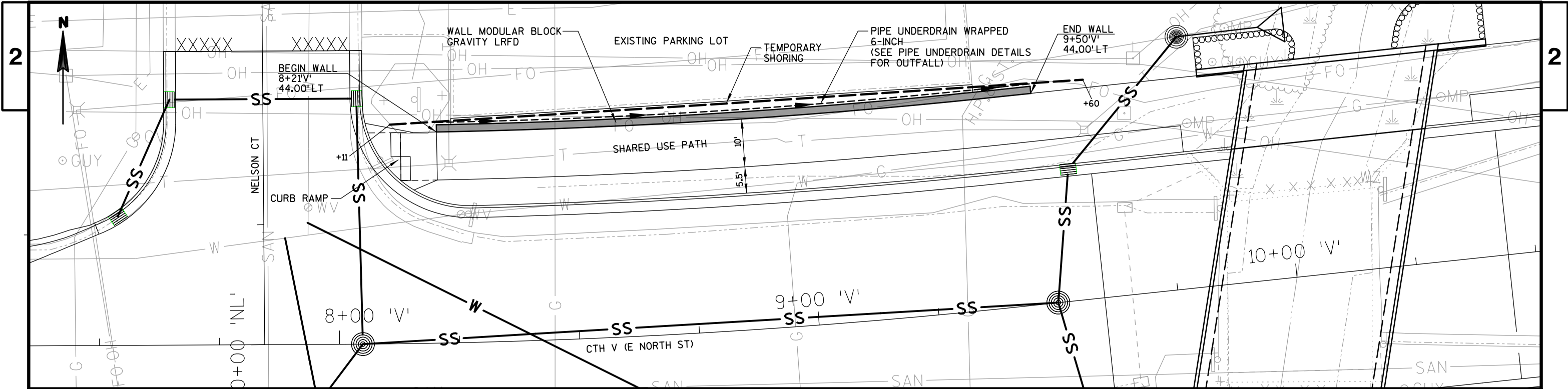
DETAIL FOR TEMPORARY PAVEMENT WEDGE AT CURB RAMPS

STAGE 2: CURB RAMPS FOR NORTH-SOUTH PEDESTRIAN CROSSING
STAGE 2: WEST CURB RAMP FOR EAST-WEST PEDESTRIAN CROSSING
STAGE 3: EAST CURB RAMP FOR EAST-WEST PEDESTRIAN CROSSING



DETAIL OF CURB AND GUTTER AT INLETS

INLET 2x3-FT WITH TYPE H COVER



TYPICAL CROSS SECTION OF RETAINING WALL

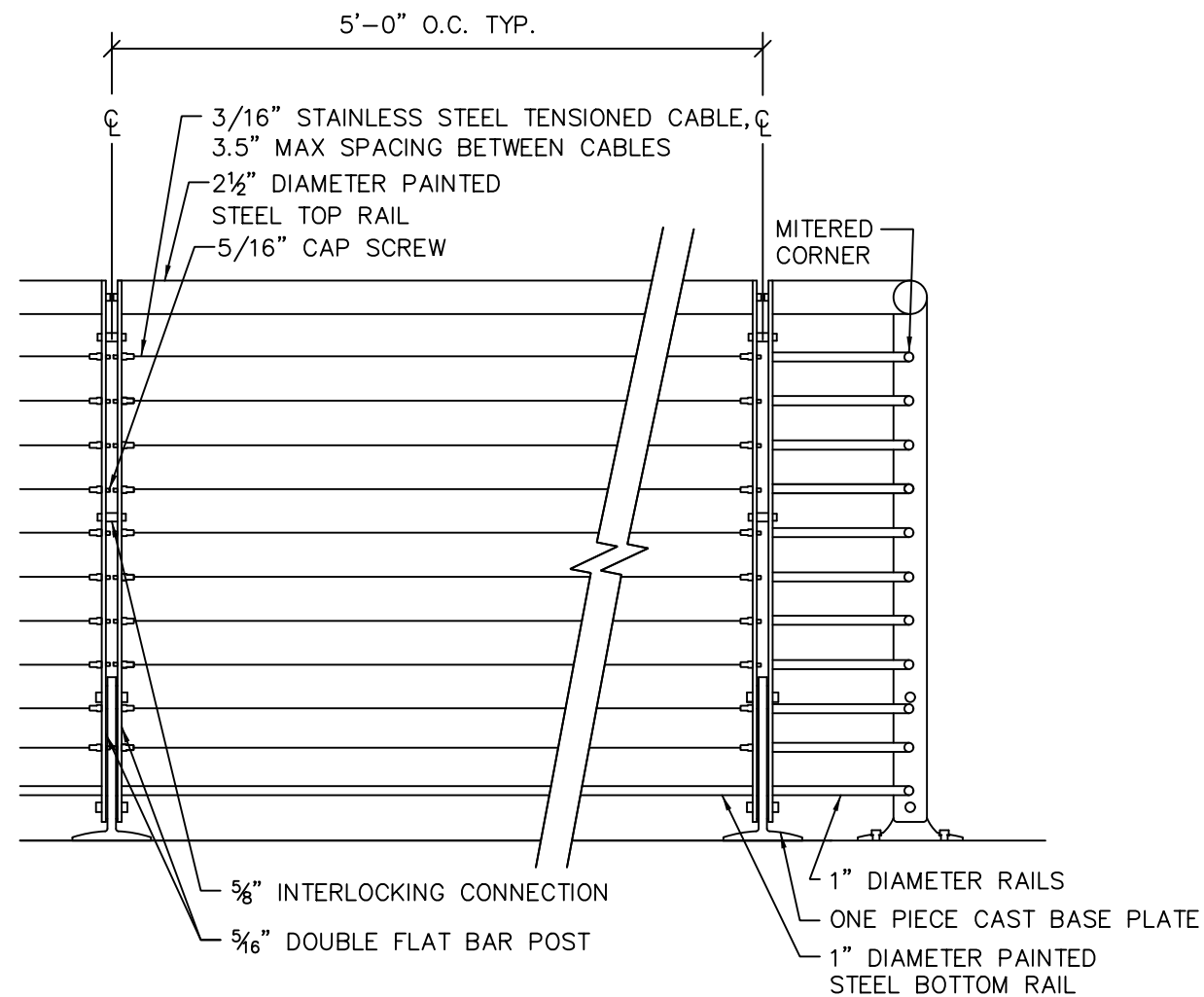
GENERAL NOTES

WALL PROFILE SHOWS MINIMUM ELEVATION FOR THE TOP OF WALL. THE AREA CALCULATED FOR ESTIMATED QUANTITIES IS FROM THE MINIMUM TOP OF WALL ELEVATION TO THE TOP OF LEVELING PAD.

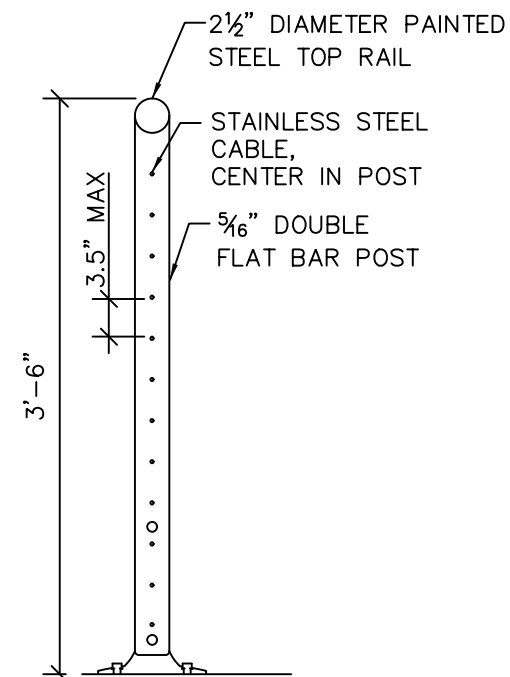
DRAWINGS SHALL NOT BE SCALED.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL



ELEVATION



END POST SECTION

GENERAL NOTES

POSTS ARE TO BE SET VERTICAL.

ALL POST COMPONENTS SHALL BE GALVANIZED STEEL, GALVANIZED AFTER FABRICATION. PAINT OVER GALVANIZING WITH A TIE COAT AND TOP COAT. THE POSTS SHALL BE PAINTED FEDERAL COLOR NO. 27038, BLACK.

THE BID ITEM SHALL BE "STEEL FENCE", LF.

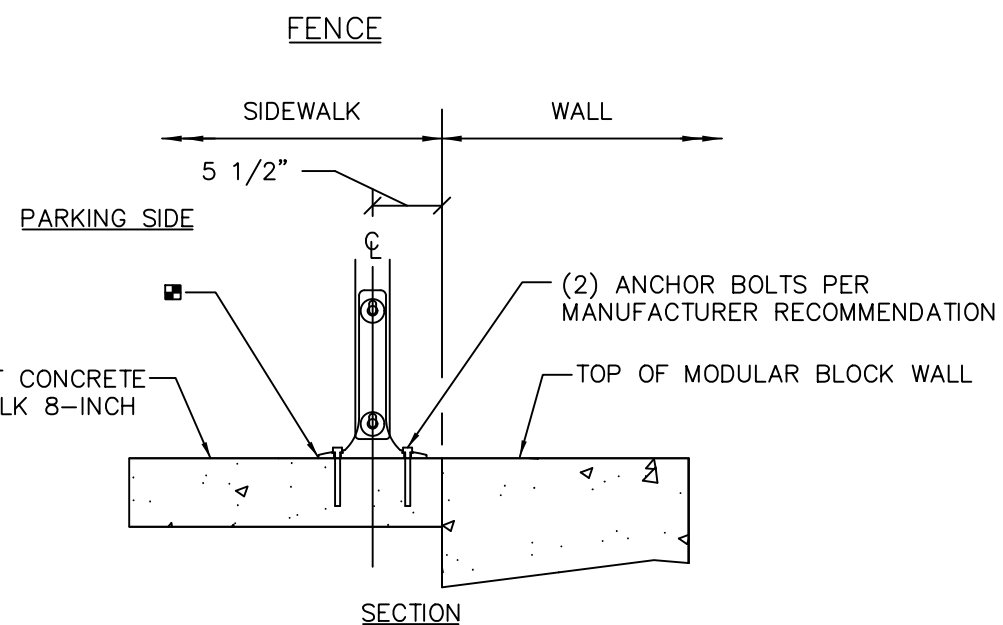
COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

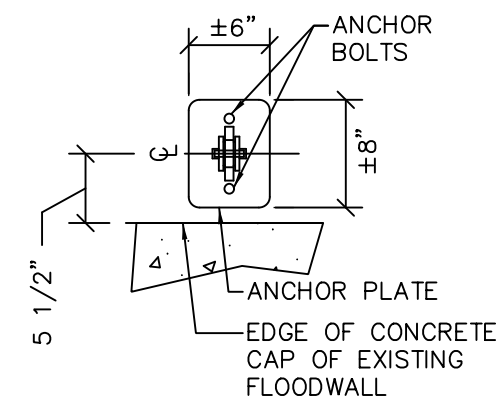
BASE PLATES, SHALL BE ASTM A709, GRADE 36.

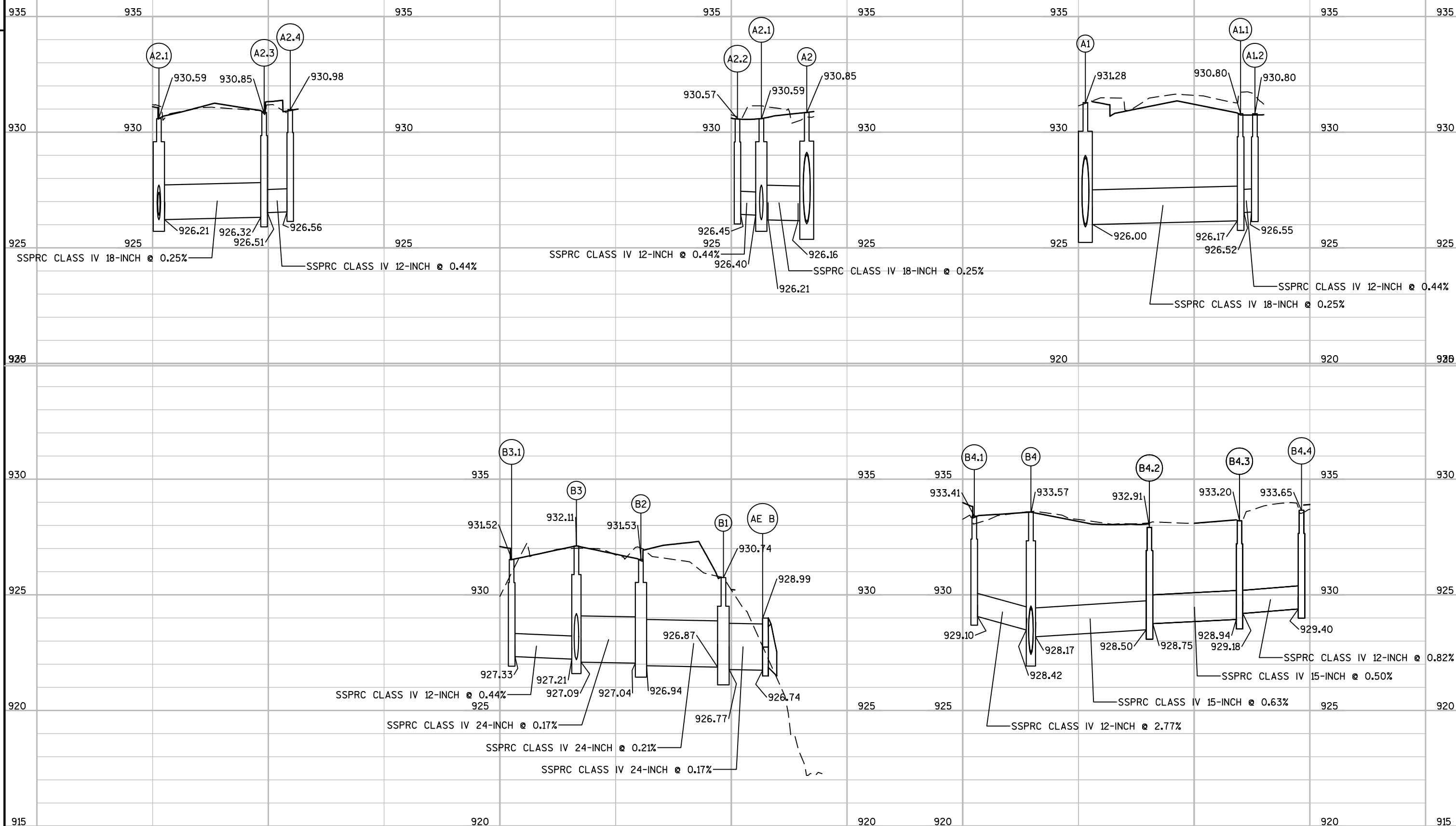
ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

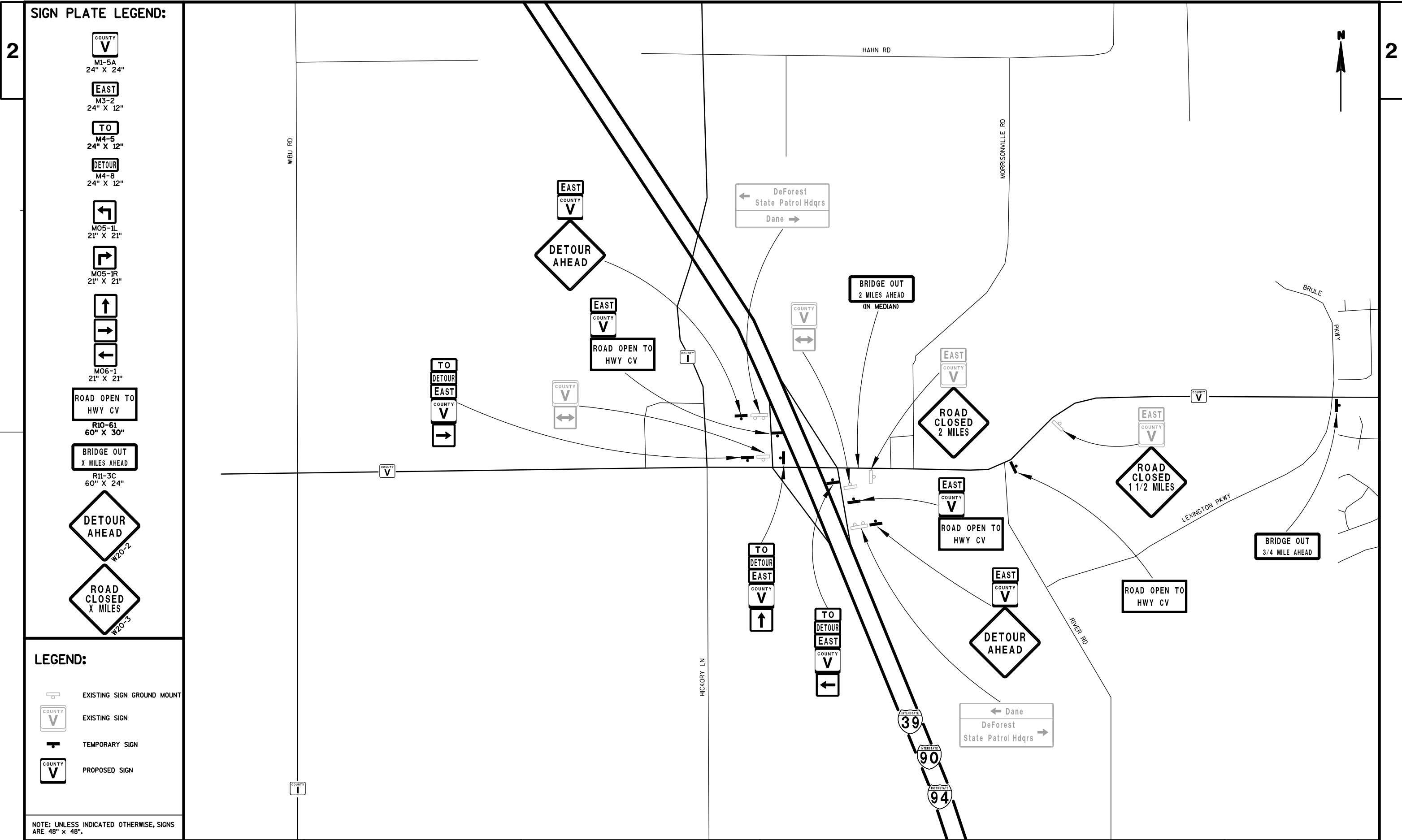
CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.



BASE MOUNTING







DATE 22DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE					6218-00-72
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0220	Grubbing	ID	36.000	36.000
0020	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0030	203.0500.S	Removing Old Structure Over Waterway (station) 01. 10+00	LS	1.000	1.000
0040	204.0100	Removing Pavement	SY	127.000	127.000
0050	204.0130	Removing Curb	LF	388.000	388.000
0060	204.0150	Removing Curb & Gutter	LF	520.000	520.000
0070	204.0155	Removing Concrete Sidewalk	SY	28.000	28.000
0080	204.0165	Removing Guardrail	LF	190.000	190.000
0090	204.0220	Removing Inlets	EACH	6.000	6.000
0100	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	8.000	8.000
0110	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	30.000	30.000
0120	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	50.000	50.000
0130	20				

DATE 22DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE					6218-00-72
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0460	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	935.000	935.000
0470	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	855.000	855.000
0480	602.0405	Concrete Sidewalk 4-Inch	SF	2,275.000	2,275.000
0490	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	50.000	50.000
0500	606.0300	Riprap Heavy	CY	170.000	170.000
0510	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	106.000	106.000
0520	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	90.000	90.000
0530	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	132.000	132.000
0540	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	294.000	294.000
0550	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	190.000	190.000
0560	611.0530	Manhole Covers Type J	EACH	5.000	5.000
0570	611.0624	Inlet Covers			

DATE 22DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE					6218-00-72
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0950	643.0300	Traffic Control Drums	DAY	1,500.000	1,500.000
0960	643.0410	Traffic Control Barricades Type II	DAY	200.000	200.000
0970	643.0420	Traffic Control Barricades Type III	DAY	1,100.000	1,100.000
0980	643.0705	Traffic Control Warning Lights Type A	DAY	1,600.000	1,600.000
0990	643.0715	Traffic Control Warning Lights Type C	DAY	800.000	800.000
1000	643.0900	Traffic Control Signs	DAY	3,500.000	3,500.000
1010	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
1020	643.2000	Traffic Control Detour (project) 01. 6218-00-72	EACH	1.000	1.000
1030	643.3000	Traffic Control Detour Signs	DAY	17,776.000	17,776.000
1040	644.1420.S	Temporary Pedestrian Surface Plywood	SF	225.000	225.000
1050	644.1601.S	Temporary Curb Ramp	EACH	2.000	2.000
1060	644.1616.S	Temporary Pedestrian Safety Fence	LF	790.000	790.000</

GRUBBING																	
STA		LOCATION		201.0220 ID													
8+66		V, 37' RT		8													
10+05		V, 49' RT		6													
10+12		V, 48' RT		10													
10+16		V, 38' RT															

CTH V EARTHWORK SUMMARY								
From/To Station	Location	Common Excavation** (1) (item # 205.0100) Cut (2)	Unusable Pavement Material (3)	Available Material (4)	Unexpanded Fill	Expanded Fill (5) Factor 1.30	Mass Ordinate +/- (6)	Waste
CATEGORY 0010								
7+25 - 11+31	CTH V	2577	321	2256	266	346	1910	1910
20+40 - 20+60	NELSON CT	108	18	90	0	0	90	90
29+10 - 30+62	STEVENSON ST	166	45	121	5	7	115	115
CATEGORY 0010 SUBTOTALS		2851	384	2467	271	352	2115	2115
CATEGORY 0030*								
11+31 - 11+95	CTH V	511	55	456	4	5	451	451
29+10 - 30+62	STEVENSON ST	183	45	138	5	7	132	132
CATEGORY 0030 SUBTOTALS		694	100	594	9	12	582	

ASPHALT PAVING									

STORM SEWER PIPE

			608.0412	608.0415	608.0418	608.0424	608.0436				
			REINFORCED CONCRETE CLASS IV								
STA	TO	STA	12-INCH	15-INCH	18-INCH	24-INCH	36-INCH	JOINT TIES***	INLET	DISCHARGE	SLOPE
			LF	LF	LF	LF	LF	EACH	ELEVATION	ELEVATION	FT/FT
A1.2	-	A1.1	6	--	--	--	--	--	926.55	926.52	0.0044
B4.3	-	B4.2	--	39	--	--	--	--	928.94	928.75	0.0050
B4.2	-	B4	--	51	--	--	--	--	928.50	928.17	0.0063
B4	-	B3	--	--	--	145	--	--	927.42	927.19	0.0016
B3	-	B2	--	--	--	28	--	--	927.09	927.04	0.0017
B3.1	-	B3	28	--	--	--	--	--	927.33		

STORM SEWER STRUCTURES

				522.1024	522.1036	611.0530	611.0624	611.0642	611.2004	611.2005	611.2006	611.3004	611.3230	611.3902	611.9800.S	633.5200	SPV.0060.01
				APRON	ENDWALLS FOR CULVERT	MANHOLE	INLET COVERS		MANHOLES			INLETS		INLETS	PIPE	MARKERS	STORM SEWER
				PIPE REINFORCED CONCRETE		COVERS									GRATES	CULVERT	PIPE
STRUCTURE	STA	O/S	LOCATION	24-INCH	36-INCH	TYPE J	TYPE H	TYPE MS	4-FT DIA.	5-FT DIA.	6-FT DIA.	4-FT DIA.	2X3-FT	GRATE		END	COVER PLATE
NUMBER				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
A1	10+71	39.6' RT	V	--	--	1	--	--	--	--	1	--					

EROSION CONTROL ITEMS

						625.0500	627.0200	628.1504	628.1520	628.2008	628.7005	628.7015	629.0205	630.0140	630.0200
						SALVAGED**	MULCHING**	SILT FENCE	SILT FENCE	EROSION MAT	INLET	INLET	FERTILIZER**	SEEDING**	SEEDING**
						TOPSOIL			MAINTENANCE	URBAN CLASS I	PROTECTION	PROTECTION	TYPE A	MIXTURE	TEMPORARY
										TYPE B	TYPE A	TYPE C		NO. 40	
CATEGORY	STA	TO	STA	LOCATION	SY	SY	LF	LF		SY	EACH	EACH	CWT	LB	LB
0010	7+25	-	7+75	V', LT	45	45	72	72		45	2	2	0.03	1	1
	7+75	-	10+25	V', LT	235	235	117								

PAVEMENT MARKING														
CATEGORY	STA	TO	STA	O/S	STAGE	646.0106 EPOXY 4-INCH		646.0600 REMOVING PAVEMENT MARKINGS	647.0566 STOP LINE EPOXY 18-INCH	647.0766 CROSSWALK EPOXY 6-INCH	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	649.0402 TEMPORARY PAVEMENT MARKING PAINT 4-INCH	649.1100 TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH	649.1200 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
								LF	LF	LF	LF	LF	LF	LF
						YELLOW	WHITE							
						LF								
0010	27+25	-												

STAKING ITEMS									
		650.4000 CONSTRUCTION STAKING STORM SEWER	650.4500 CONSTRUCTION STAKING SUBGRADE	650.5000 CONSTRUCTION STAKING BASE	650.5500 CONSTRUCTION STAKING CURB & GUTTER	650.6500.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (B-13-0670)	650.6500.02 CONSTRUCTION STAKING STRUCTURE LAYOUT (RETAINING WALL)	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (6218-00-72)	650.9920 CONSTRUCTION STAKING SLOPE STAKES
CATEGORY	LOCATION	EACH	LF	LF	LF	LS	LS	LS	LF
0010	CTH V	20	525	450	855	--	1	1	525
0020	B-13-0670	--	--	--	--	1	--	--	--
TOTALS		20	525	450	855	1	1	1	525

SAWING				
		690.0150 ASPHALT	690.0250 CONCRETE	
LOCATION	O/S	LF	LF	NOTES
7+25 'V'	LT & RT	43	--	CTH V
20+61 'NL'	LT & RT	37	5	NELSON CT
8+10 'V'	RT	--	16	DRIVEWAY
9+05 'V				

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE VILLAGE.

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

AREAS SHOWN FOR NEW R/W, PLE AND TLE AREAS ARE FOR THOSE LANDS ABOVE THE APPROXIMATE ORDINARY HIGH WATER MARK OF THE YAHARA RIVER.

4

4

PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	TOTAL ACRES OR S.F.	R/W ACRES OR S.F. REQUIRED			TOTAL ACRES OR S.F. REMAINING	TLE ACRES OR S.F.	PLE ACRES OR S.F.	
					NEW	EXISTING	TOTAL				
1	4.03	DR. GREGG N. BAKKE D.C., DR. DAVID B. BAKKE D.C. & DR. PHILLIP BAKKE D.C.	FEE & TLE	0.87	0.05	---	0.05	0.82	0.04	----	
2	4.03	BRYAN W. NELSON	TLE	---	---	---	---	---	93 S.F.	----	
3	4.03	ROBERT J. BRUNNER, JR.	TLE	---	---	---	---	---	0.02	----	
4	4.03	RODNEY A. CAMREN, CARLA J. BUDROW, & DIANE L. LARSON, OWNERS L									

Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-16A	CURB RAMPS TYPES 1 AND 1-A
08D05-16B	CURB RAMPS TYPES 2 AND 3
08D05-16C	CURB RAMPS TYPES 4A AND 4A1
08D05-16D	CURB RAMPS TYPE 4B AND 4B1
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D15-04A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
12A03-10	NAME PLATE (STRUCTURES)
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES

