Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
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November 30, 2015

NOTICE TO ALL CONTRACTORS:

Proposal #10:

1060-34-84
Zoo IC, Center Street Bridge
Over USH 45
USH 45
Milwaukee County

1060-35-85
Zoo IC, Center Street Sidewalk
114th Street to 117th Street
Off System
Milwaukee County

Letting of December 8, 2015

This is Addendum No. 01, which provides for the following:

Special Provisions

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress – Added Northern Long-Eared Bat language
8	Other Contracts – Added information regarding City of Wauwatosa Storm Sewer project

Schedule of Items

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.0220	Removing Inlets	EACH	13	-5	8
204.0245	Removing Storm Sewer (size) 0001. (12-Inch)	LF	111	-60	51
204.0245	Removing Storm Sewer (size) 0002. (15-Inch)	LF	114	-21	93
204.0280	Sealing Pipes	EACH	10	-1	9
520.8000	Concrete Collars For Pipe	EACH	12	-6	6
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	395	-198	197
608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	216	-80	136
608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	211	-27	184
611.0535	Manhole Covers Type J-Special	EACH	3	-1	2
611.0624	Inlet Covers Type H	EACH	16	-8	8

611.0642	Inlet Covers Type MS	EACH	5	-2	3
611.2008	Manholes 8-Ft Diameter	EACH	2	-1	1
611.3004	Inlets 4-Ft Diameter	EACH	22	-3	19
611.3230	Inlets 2x3-Ft	EACH	6	-5	1
611.3901	Inlets Median 1 Grate	EACH	5	-2	3
611.8110	Adjusting Manhole Covers	EACH	4	-1	3
611.8115	Adjusting Inlet Covers	EACH	9	-2	7

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
616.0329	Gates Chain Link (Width) 0002. 12-Ft	EACH	0	4	4

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
611.0420	Reconstructing Manholes	EACH	2	-2	0
616.0329	Gates Chain Link (Width) 0001. 10-Ft	EACH	4	-4	0

Plan Sheets

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
39	Plan Details – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
40	Plan Details – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
47	Grades – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
58	Contour Map – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
59	Contour Map – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
67	Erosion Control - Legend – Update notes with information regarding inlet protection for future Wauwatosa Storm Sewer project installed inlets
68	Erosion Control – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
69	Erosion Control – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
75	Storm Sewer - Construction Details – Added applicable station ranges for backfill slurry
79	Storm Sewer - Removals – Removed activities due to Wauwatosa Storm Sewer project
82	Storm Sewer - Removals – Removed activities due to Wauwatosa Storm Sewer project
89	Planting – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
164	Alignment Layout - Survey Control Overview – updated survey control point data
165	Alignment Layout - Survey Control Overview – updated survey control point data
166	Alignment Layout - Survey Control – updated survey control point data
167	Alignment Layout - Survey Control – removed incorrect background mapping
193	Miscellaneous Quantities – Increased size of Fence Gate (Bid Item No. 616.0329.0001) from 10-FT to 12-FT
195	Miscellaneous Quantities – Decreased quantities due to Wauwatosa Storm Sewer project
196	Miscellaneous Quantities – Adjusted quantities due to Wauwatosa Storm Sewer project
199	Miscellaneous Quantities – Added remaining data from previous sheet 198 to sheet 199

200	Miscellaneous Quantities – Added comments to structure comments column
201	Miscellaneous Quantities – Added comments to structure comments column
202	Miscellaneous Quantities – Decreased quantities due to Wauwatosa Storm Sewer project
229	Plan and Profile: W. Center Street – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
231	Plan and Profile: N. 113th Street – Removed sections of proposed storm sewer due to Wauwatosa storm sewer project
399	Structure R-40-577 – Clarified General Notes
406	Structure R-40-578 – Clarified General Notes

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
167A	Alignment Layout - Survey Control – Added survey control points
264A	S.D.D. 13C1-18 – Added due to inclusion of S.D.D. 13C13-8

Deleted Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was deleted)
70	Erosion Control – Duplicate of Sheet 68
198	Miscellaneous Quantities – Deleted data due to Wauwatosa Storm Sewer project and combined remaining information onto Sheet 199

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 1

1060-34-84/1060-35-85

November 30, 2015

Special Provisions

3. Prosecution and Progress

Replace entire language under section titled **Northern Long-Eared Bat** *with the following:*

Northern Long-eared Bat (*Myotis septentrionalis*)
Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees and structures (bridges, culverts, buildings). Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the Federal Endangered Species Act.

In order to avoid adverse impacts upon the NLEBs, no vegetation clearing and grubbing within the identified clearing and grubbing limits will be allowed from April 1 to September 30, both dates inclusive.

If the required clearing and removal is not completed by March 31, the department will suspend all clearing and associated work directly impacted by clearing. The department will issue a notice to proceed with clearing and associated work directly impacted by clearing after consulting with the United States Fish and Wildlife Service (USFWS).

Submit a schedule and description of Clearing and/or Grubbing operations with the ECIP 14 days prior to any Clearing operations. The department will determine, based on schedule and scope of work, what additional erosion control measures shall be implemented prior to the start of Clearing operations, and list those additional measures in the ECIP.

Notify the Project Leader 14 days in advance of any work on box culverts or bridges between April 1 and September 30 to allow time for department to complete the Bat Presence Structure Inspection Form.

If bats or evidence of bats are not found during the inspection, construction may proceed.

If bats or evidence of bats are found during the inspection, construction activities affecting the structure's roosting potential must stop until the WisDOT Regional Environmental Coordinator completes consultation with the Wisconsin Department of Natural Resources (WNDR) and/or United States Fish and Wildlife Service (USFWS).

8. Other Contracts

Replace entire article language with the following:

Coordinate your work according to standard spec 105.5.

Modifications to the traffic control plan may be required by the engineer to be safe and consistent with the adjacent work by others.

The following projects may be under construction concurrently with the work under this contract. Coordinate activities, detours, work zone traffic control, roadway and lane closures, and other work items as required with other contracts.

Modifications to the traffic control plan may be required by the engineer to be safe and consistent with the adjacent work by others.

City of Wauwatosa – Center Street Storm Sewer
City let reconstruction project of storm sewer from 113th Street to 116th Street. Project scope consists of total reconstruct of storm sewer system on Center Street from 113th Street to 116th Street including reconstruction of storm sewer trunk line and laterals. In addition, storm sewer reconstruction work will also occur north of Center Street and east of Wauwatosa West High School, on 113th Street and on 116th Street. Work is anticipated in spring/summer 2016 and will need to be coordinated with the 1060-34-84 and 1060-35-85 projects.

City of Wauwatosa contact: Bill Wehrley; (414)-479-8929

Project 1060-33-80
Zoo IC, Zoo Interchange Phase 1
WisDOT contact: Mark Klipstein; (414) 750-1496

Project 1060-33-81
Zoo IC, Zoo Interchange Phase 2
WisDOT contact: Mark Klipstein; (414) 750-1496

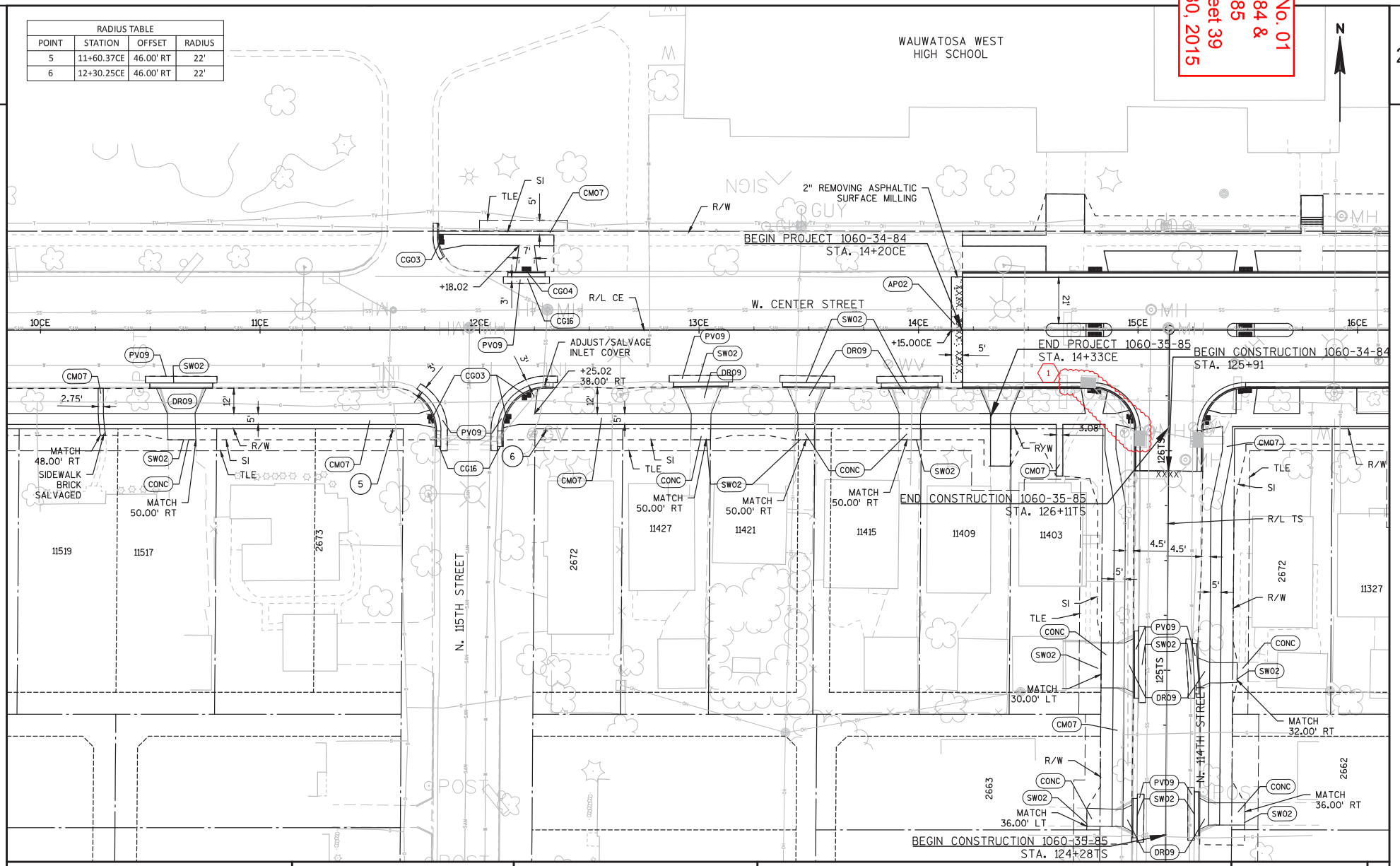
Schedule of Items
Attached, dated November 30, 2015, are the revised Schedule of Items Pages 1 – 27.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 39, 40, 47, 58, 59, 67, 68, 69, 75, 79, 82, 89, 164, 165, 166, 167, 193, 195, 196, 199, 200, 201, 202, 229, 231, 399, and 406.
Added: 167A, and 264A.

END OF ADDENDUM

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 39
November 30, 2015

RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
5	11+60.37CE	46.00' RT	22'
6	12+30.25CE	46.00' RT	22'



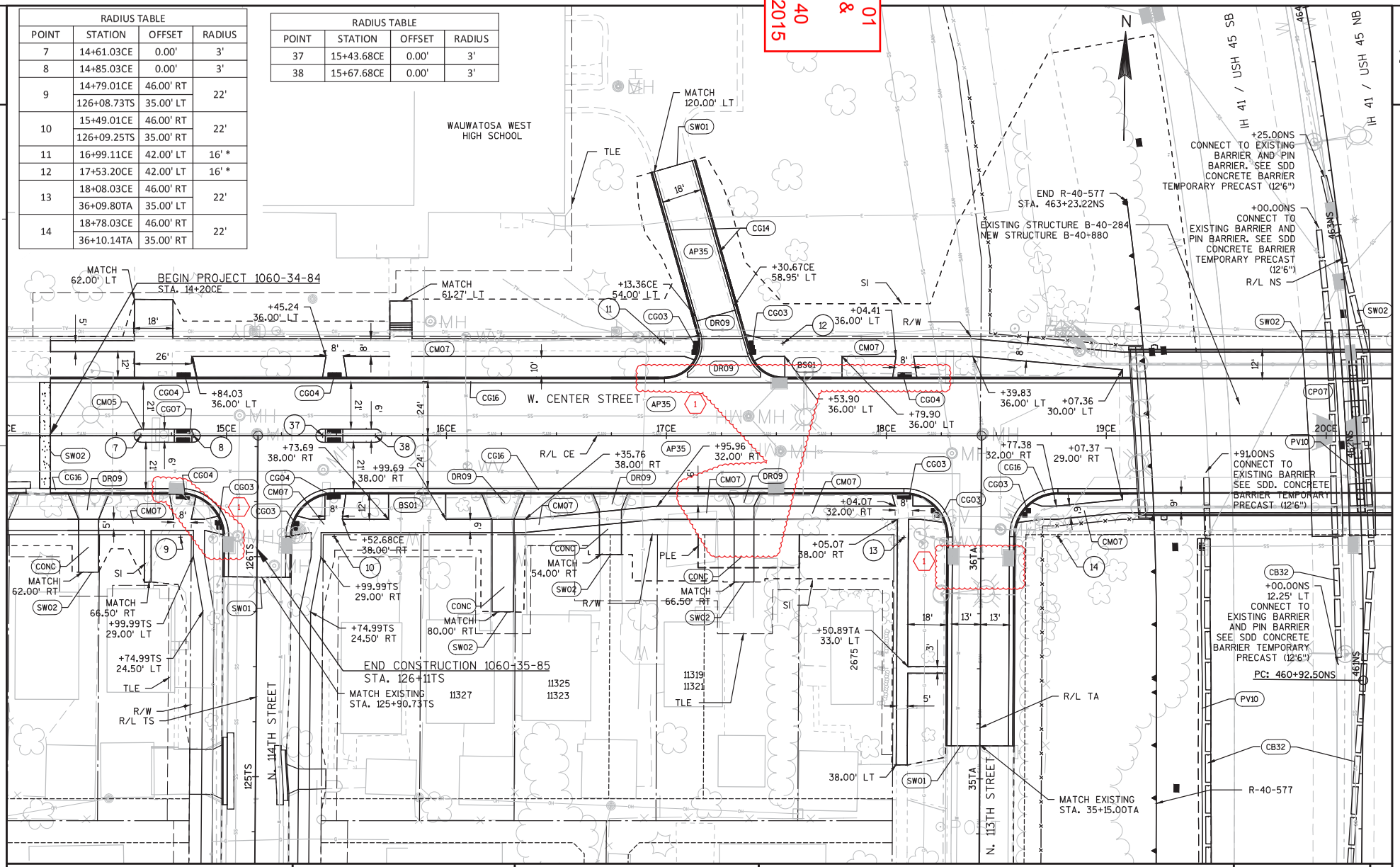
PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 39 E

FILE NAME : W:\PDS\C3D\CAD\10603585\021201_PD.DWG
LAYOUT NAME - 021202_PD
PLOT DATE : 11/23/2015 12:57 PM PLOT BY : GIBSON, NICOLE E PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 40
November 30, 2015

RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
7	14+61.03CE	0.00'	3'
8	14+85.03CE	0.00'	3'
9	14+79.01CE	46.00' RT	22'
	126+08.73TS	35.00' LT	
10	15+49.01CE	46.00' RT	22'
	126+09.25TS	35.00' RT	
11	16+99.11CE	42.00' LT	16' *
12	17+53.20CE	42.00' LT	16' *
13	18+08.03CE	46.00' RT	22'
	36+09.80TA	35.00' LT	
14	18+78.03CE	46.00' RT	22'
	36+10.14TA	35.00' RT	

RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
37	15+43.68CE	0.00'	3'
38	15+67.68CE	0.00'	3'



PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 40	E

FILE NAME : W:\PDS\C3D\CAD\10603484\021201_PD.DWG PLOT DATE : 11/23/2015 1:06 PM PLOT BY : GIBSON, NICOLE E PLOT NAME : PLOT SCALE : 1:40_XREF

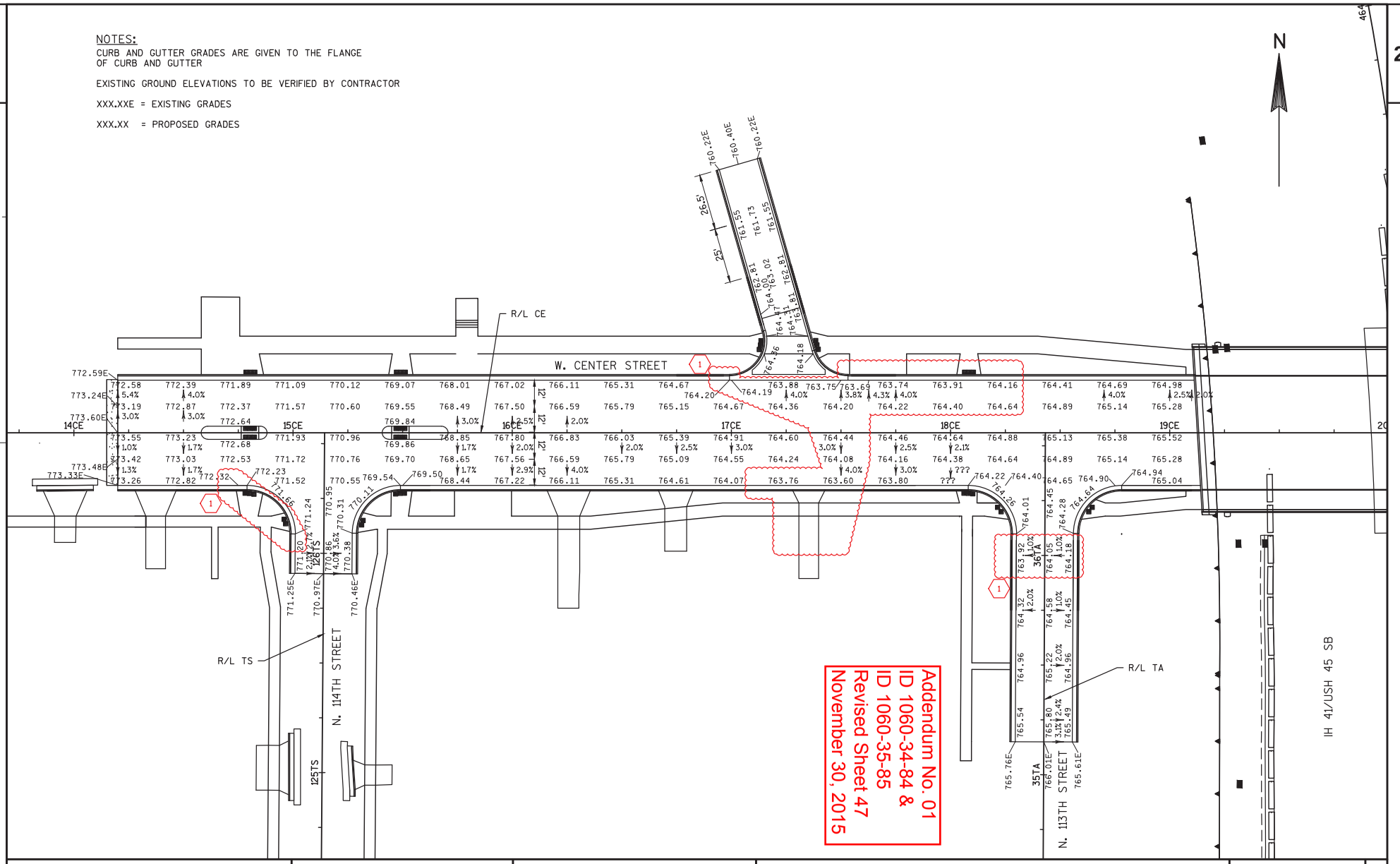
WISDOT/CADDS SHEET 42

NOTES:
CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER

EXISTING GROUND ELEVATIONS TO BE VERIFIED BY CONTRACTOR

XXX.XXE = EXISTING GRADES

XXX.XX = PROPOSED GRADES



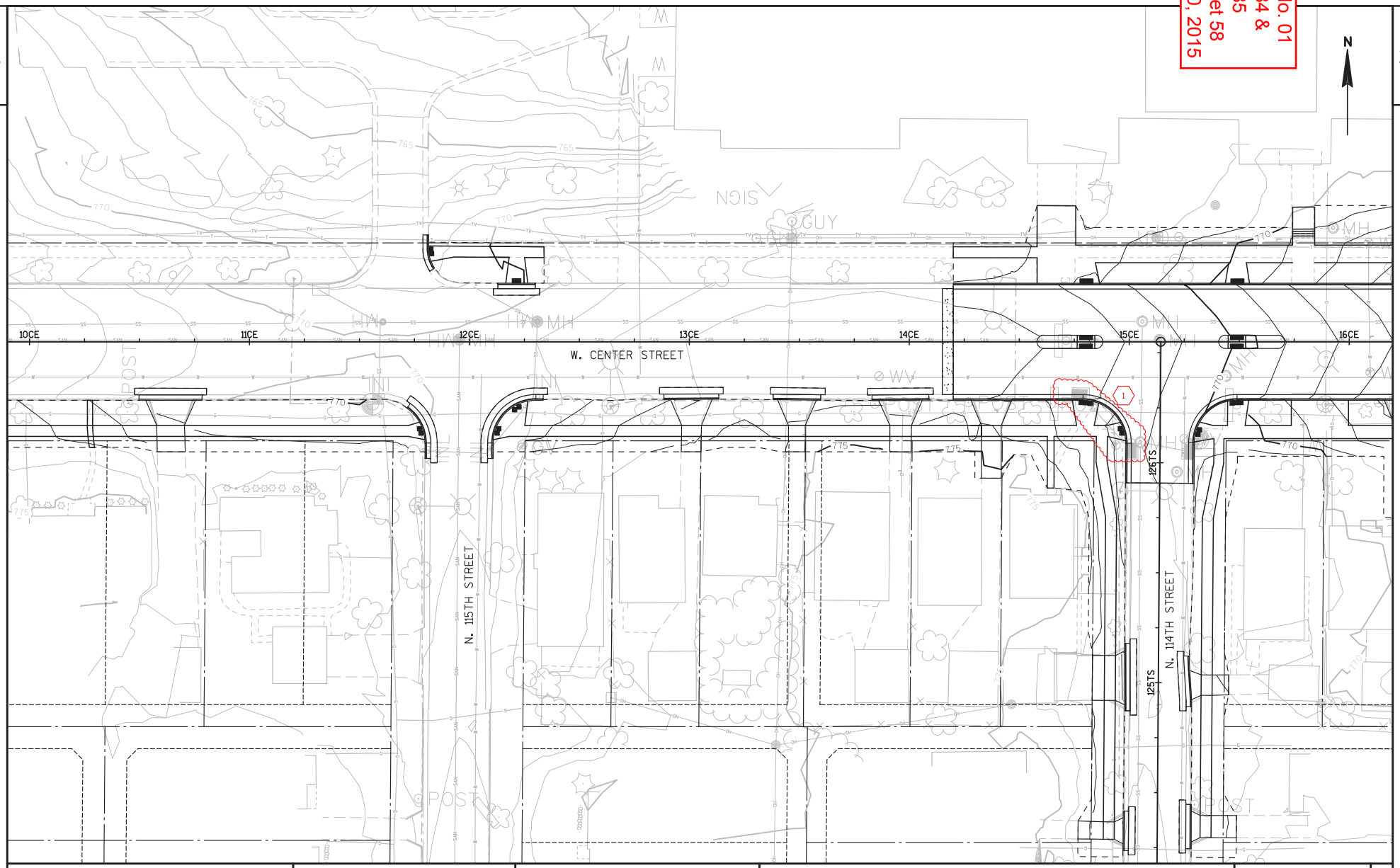
Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 47
November 30, 2015

PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	GRADES	SHEET 47_____	E

FILE NAME : W:\PDS\C3D\CAD\10603484\021401_GR.DWG PLOT DATE : 11/23/2015 2:26 PM PLOT BY : GIBSON, NICOLE E PLOT NAME : _____ PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 58
November 30, 2015

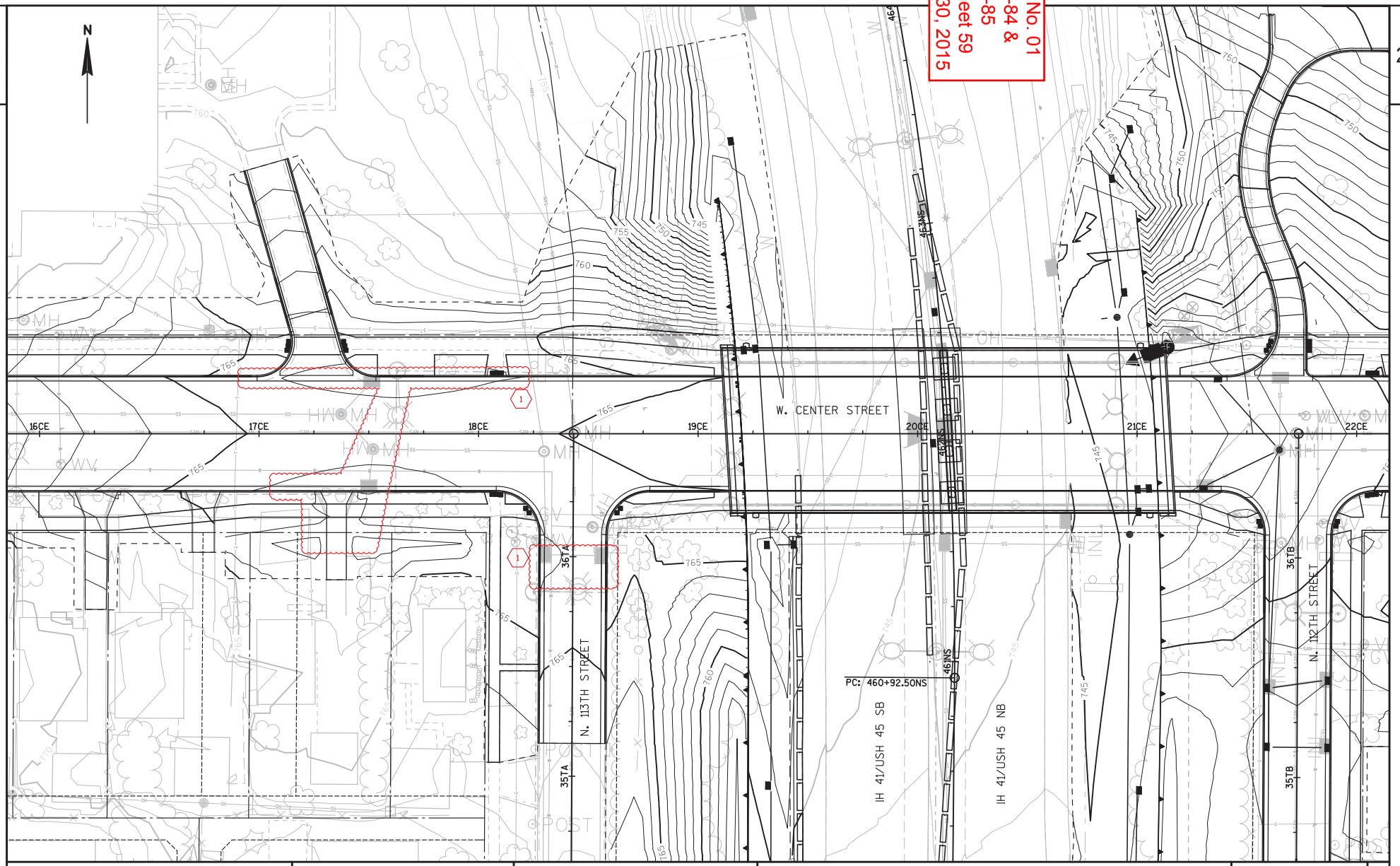


PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET 58	E

FILE NAME : W:\PDS\C3D\CAD\10603484\021601_CM.DWG
LAYOUT NAME - 021602_CM

PLOT DATE : 11/23/2015 3:23 PM PLOT BY : GIBSON, NICOLE E PLOT NAME : PLOT SCALE : 1 IN:40 FT

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 59
November 30, 2015



PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	CONTOUR MAP	SHEET 59	E

FILE NAME : W:\PDS\C3D\CAD\10603484\021601_CM.DWG
LAYOUT NAME - 021603_CM

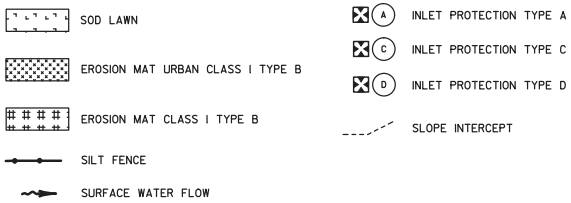
PLOT DATE : 11/23/2015 3:23 PM PLOT BY : GIBSON, NICOLE E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND



NOTES:

1. USE EROSION MAT CLASS I TYPE B WITHIN THE RIGHT-OF-WAY FENCE. EROSION MAT URBAN CLASS 1 TYPE B SHOULD BE USED ON DISTURBED AREAS OUTSIDE THE RIGHT-OF-WAY FENCE THAT ARE NOT SHOWN AS SOD LAWN. EROSION MATS ARE NOT TO BE INSTALLED IN WATER.

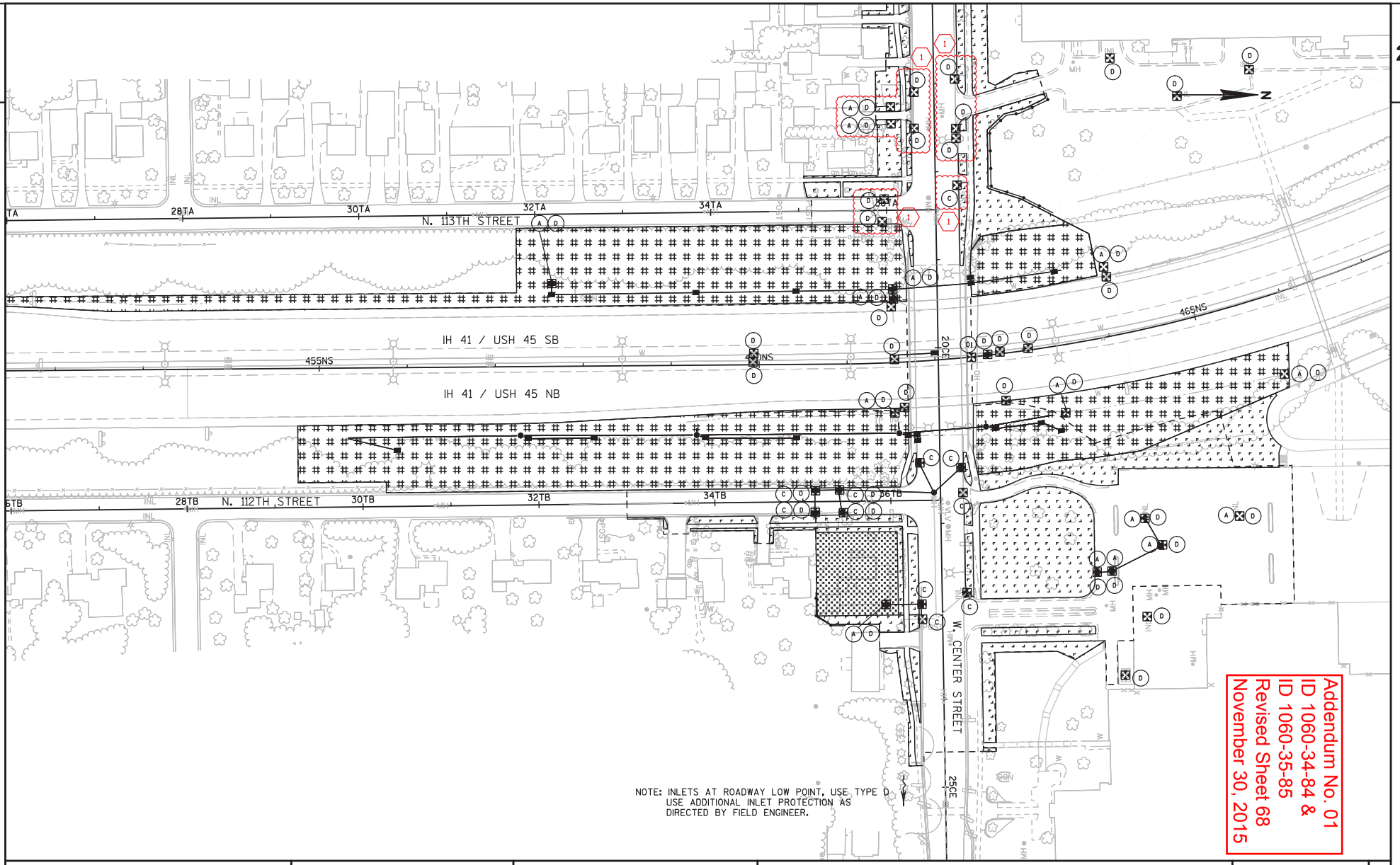
2. INSTALL TYPE A INLET PROTECTION AS SHOWN IN THE PLANS, UNTIL GRADES ARE FINALIZED. AFTER GRADING AROUND INLETS IS FINISHED, INSTALL ALTERNATE INLET PROTECTION AS IDENTIFIED IN THE PLANS.

3. INLET PROTECTION SHOWN ON PLANS SHOULD BE ADJUSTED IN THE FIELD AS NEEDED TO MATCH THE CITY OF WAUWATOSA'S LOCAL STORM SEWER PROJECT. 1

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 67
November 30, 2015

PROJECT NO:1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL - LEGEND	SHEET 67	E

FILE NAME : W:\PDS\C3D\CAD\10603484\022000_EC.DWG
LAYOUT NAME - ****
PLOT DATE : 11/23/2015 1:56 PM PLOT BY : SCHWENN, BRANDON C PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

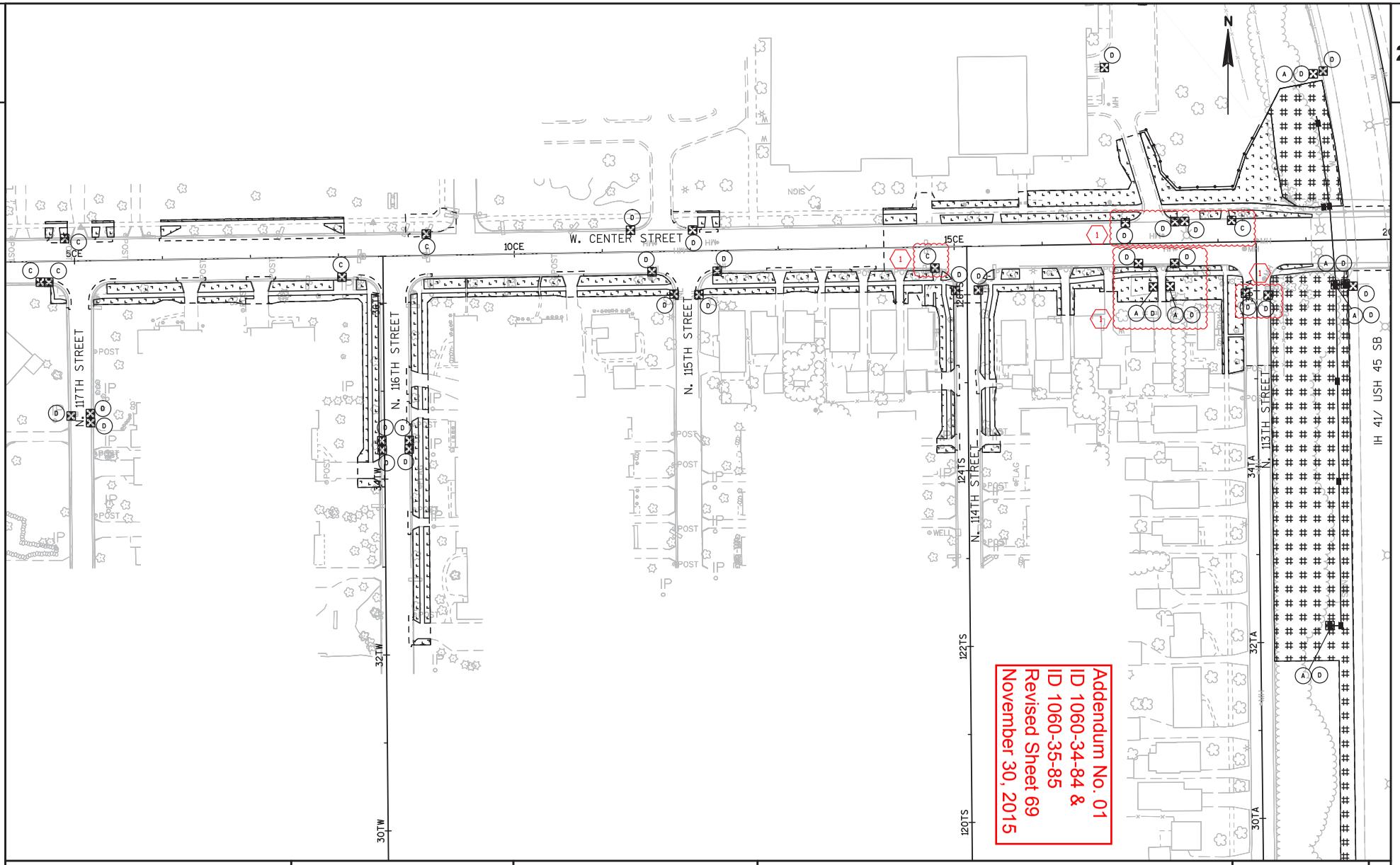


PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 68	E

FILE NAME : W:\PDS\C3D\CAD\10603484\022001_EC.DWG
LAYOUT NAME - ****

PLOT DATE : 11/23/2015 4:11 PM PLOT BY : SCHWENN, BRANDON C PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 69	E

FILE NAME : W:\PDS\C3D\CAD\10603484\022001_EC.DWG
LAYOUT NAME - ****

PLOT DATE : 11/23/2015 3:47 PM PLOT BY : SCHWENN, BRANDON C PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

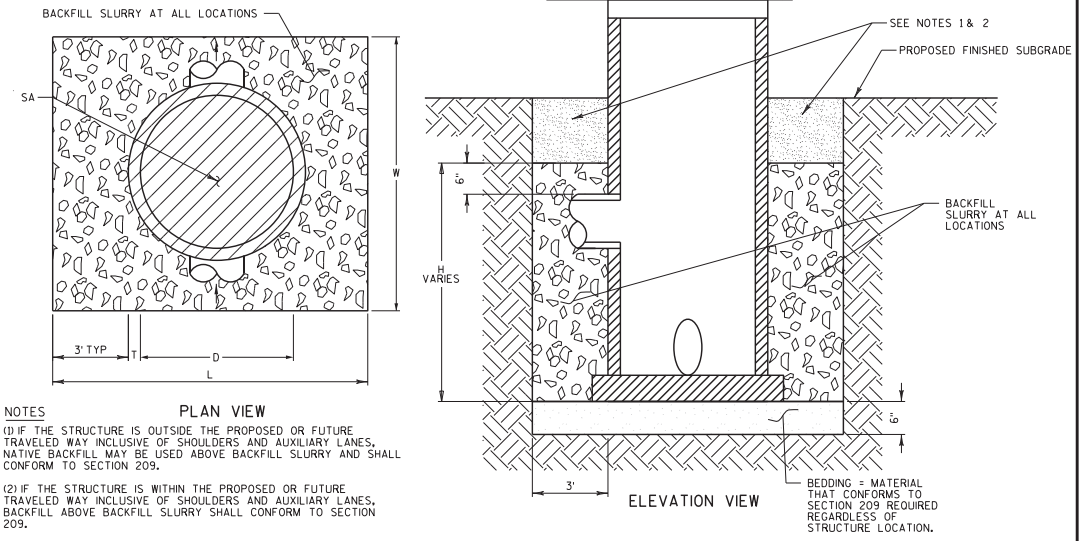
2

BACKFILL SLURRY STRUCTURES FOR INFORMATION ONLY)

DESCRIPTION	DIAMETER / STR LENGTH D FT	RECTANGULAR STR WIDTH RW FT	WALL THICKNESS T INCH	STRUCTURE EXCAVATION LENGTH L FT	STRUCTURE EXCAVATION WIDTH W FT	STRUCTURE EXCAVATION AREA SF	STRUCTURE AREA SA SF	BACKFILL SLURRY AREA SF
INLETS 2x3-FT	2	3	5	8.83	9.83	87	11	76
INLETS MEDIAN 1 GRATE	2.5	2.5	8	9.83	9.83	97	15	82
INLETS MEDIAN 2 GRATE	2.5	5.33	8	9.83	12.66	125	26	99
INLETS 3-FT DIAMETER	3	---	4	9.67	9.67	93	11	83
INLETS 4-FT DIAMETER	4	---	5	10.83	10.83	117	18	99
MANHOLES 4-FT DIAMETER	4	---	5	10.83	10.83	117	18	99
MANHOLES 5-FT DIAMETER	5	---	6	12.00	12.00	144	28	116
MANHOLES 6-FT DIAMETER	6	---	7	13.17	13.17	173	40	133
MANHOLES 8-FT DIAMETER	8	---	9	15.50	15.50	240	71	169
MANHOLES 9-FT SPECIAL	9	---	10	16.67	16.67	278	89	188

H = UP TO 6" ABOVE THE TOP OF THE HIGHEST PIPE IN THE STRUCTURE

BACKFILL SLURRY VOLUME (CUBIC YARDS) = $\frac{\text{BACKFILL SLURRY AREA X H}}{27}$



NOTES

(1) IF THE STRUCTURE IS OUTSIDE THE PROPOSED OR FUTURE TRAVELED WAY INCLUSIVE OF SHOULDERS AND AUXILIARY LANES, NATIVE BACKFILL MAY BE USED ABOVE BACKFILL SLURRY AND SHALL CONFORM TO SECTION 209.

(2) IF THE STRUCTURE IS WITHIN THE PROPOSED OR FUTURE TRAVELED WAY INCLUSIVE OF SHOULDERS AND AUXILIARY LANES, BACKFILL ABOVE BACKFILL SLURRY SHALL CONFORM TO SECTION 209.

(3) BACKFILL SLURRY IS CONSIDERED INCIDENTAL TO DRAINAGE STRUCTURES. NO SEPARATE PAYMENTS WILL BE MADE.

(4) WHEN TEMPORARY SUBGRADE IS HIGHER THAN PROPOSED FINISHED SUBGRADE, PROVIDE GRANULAR BACKFILL AT ALL LOCATIONS. COST FOR GRANULAR BACKFILL IS CONSIDERED INCIDENTAL TO CONSTRUCTION.

BACKFILL SLURRY DETAIL - STORM SEWER STRUCTURES 1

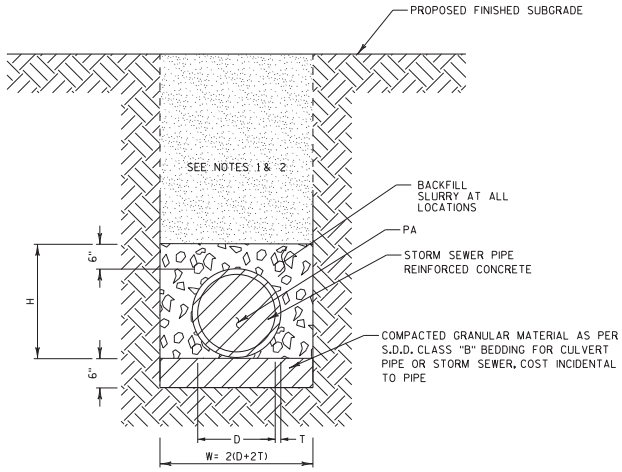
APPLICABLE STATION RANGES:
19CE+00 TO 24CE+00
455NS+00 TO 464NS+00

BACKFILL SLURRY TRENCHES (FOR INFORMATION ONLY)

INCHES	PIPE DIAMETER D Inches	Wall Thickness T FT	Trench Width W Height of Pipe Zone H (From pipe bottom to 6" above top of pipe)	Area of Pipe Zone SF	Area of Pipe PA SF	Backfill Slurry Area SF
12	2.00	2.67	1.83	4.89	1.40	3.49
15	2.25	3.25	2.13	6.91	2.07	4.83
18	2.50	3.83	2.42	9.26	2.89	6.38
24	3.00	5.00	3.00	15.00	4.91	10.09
30	3.50	6.17	3.58	22.10	7.47	14.63
60	6.75	12.25	6.63	81.16	29.46	51.69

*H.E. PIPE ARE APPROXIMATED TO EQUIVALENT CIRCULAR PIPE FOR BACKFILL SLURRY PURPOSES

BACKFILL SLURRY VOLUME (CUBIC YARDS) = $\frac{\text{(PIPE ZONE AREA - PIPE AREA) X PIPE PLAN LENGTH}}{27}$



NOTES

(1) IF THE PIPE IS OUTSIDE THE PROPOSED OR FUTURE TRAVELED WAY INCLUSIVE OF SHOULDERS AND AUXILIARY LANES, NATIVE BACKFILL MAY BE USED ABOVE BACKFILL SLURRY AND SHALL CONFORM TO SECTION 209.

(2) IF THE PIPE IS WITHIN THE PROPOSED OR FUTURE TRAVELED WAY INCLUSIVE OF SHOULDERS AND AUXILIARY LANES, BACKFILL ABOVE BACKFILL SLURRY SHALL CONFORM TO SECTION 209.

(3) BACKFILL SLURRY IS CONSIDERED INCIDENTAL TO DRAINAGE PIPE. NO SEPARATE PAYMENTS WILL BE MADE.

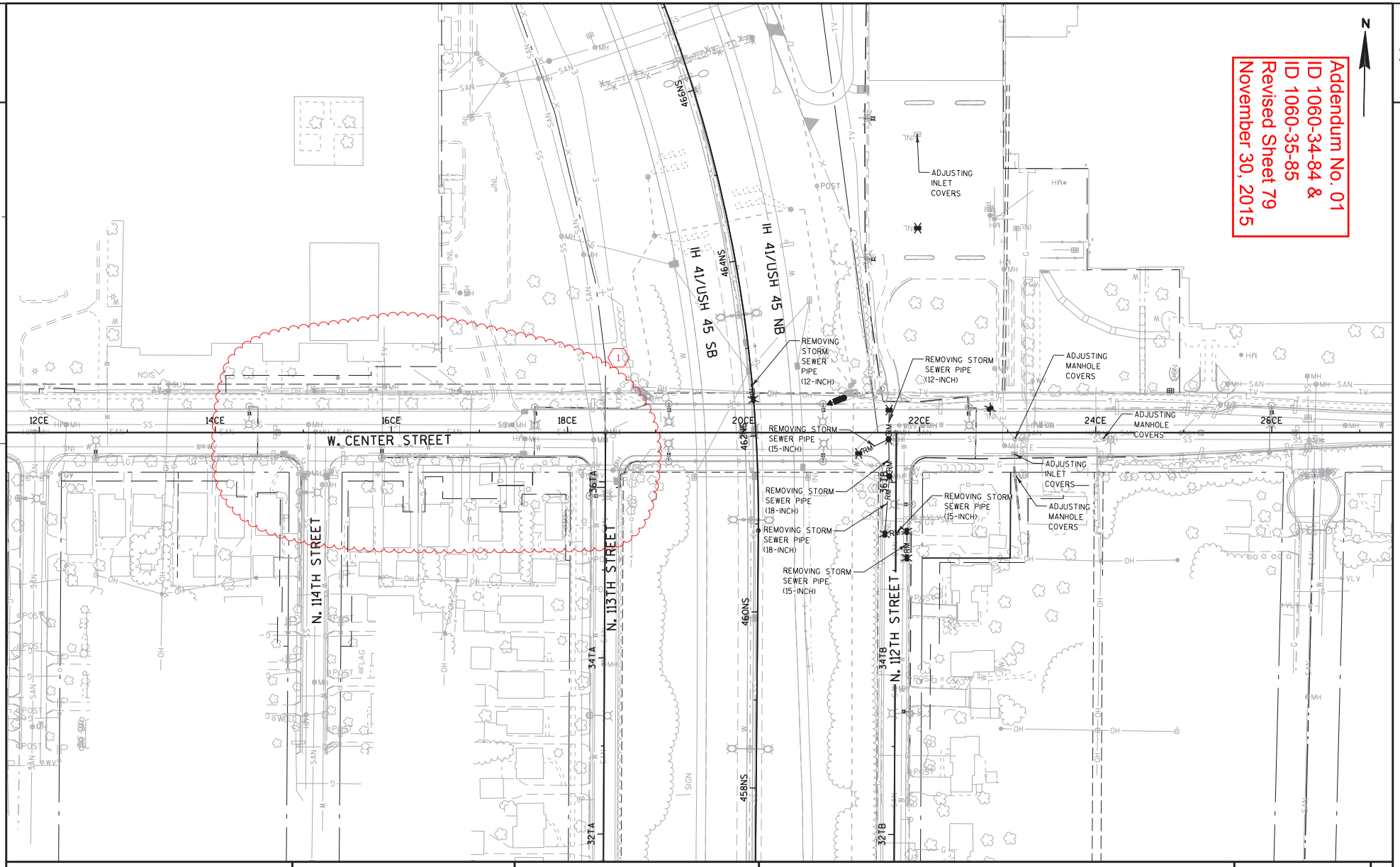
(4) WHEN TEMPORARY SUBGRADE IS HIGHER THAN PROPOSED FINISHED SUBGRADE, PROVIDE GRANULAR BACKFILL AT ALL LOCATIONS. COST FOR GRANULAR BACKFILL IS CONSIDERED INCIDENTAL TO CONSTRUCTION.

BACKFILL SLURRY DETAIL - STORM SEWER TRENCH 1

APPLICABLE STATION RANGES:
19CE+00 TO 24CE+00
455NS+00 TO 464NS+00

2

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 75
November 30, 2015

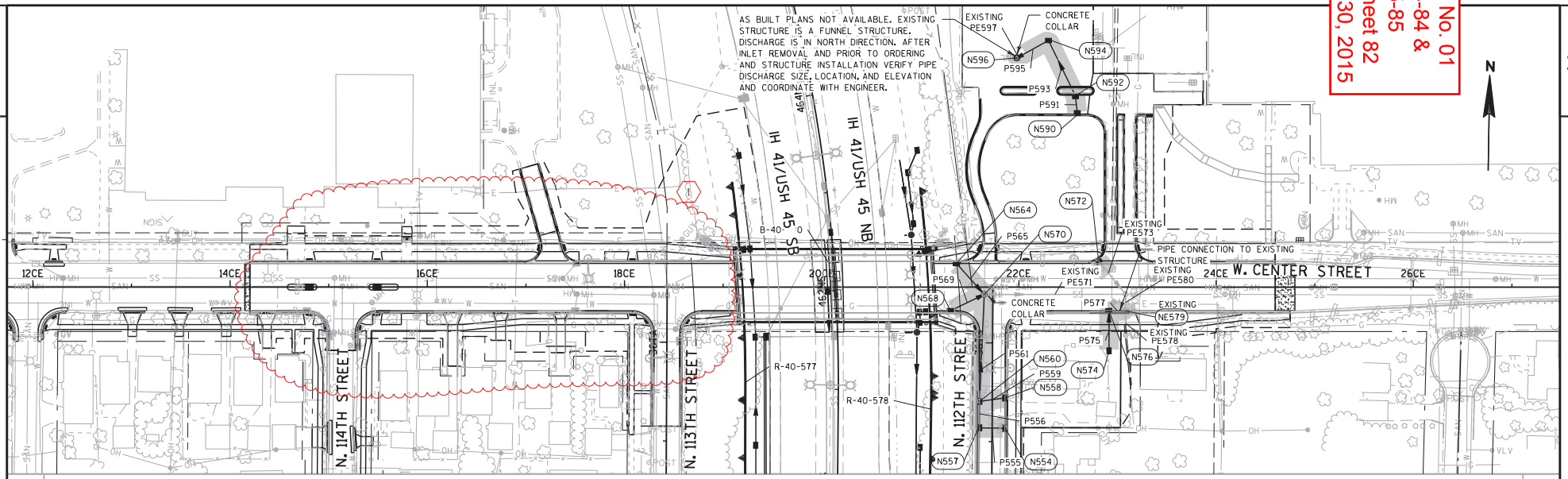


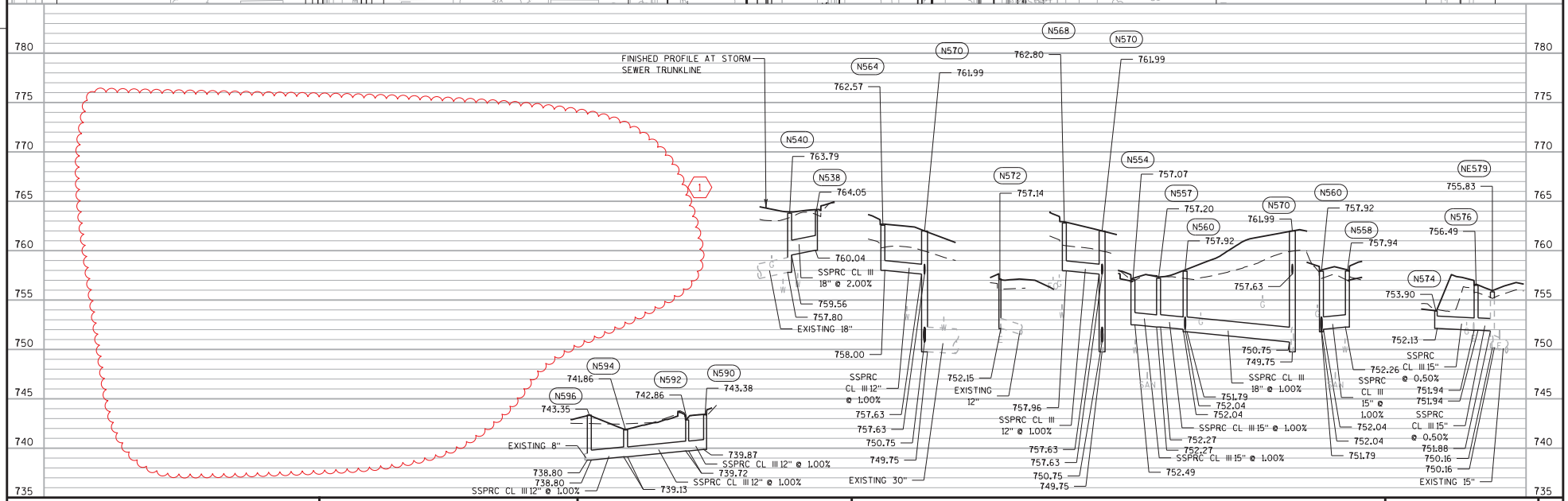
PROJECT NO: 1060-34-84	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER - REMOVALS	SHEET 79	E

FILE NAME : W:\Cadd\Final\10603484_ZN2\Roads\cds\022509_ss.dgn PLOT DATE : 19-NOV-2015 08:52 PLOT BY : MSCJXF PLOT NAME : 022509_ss PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 82
November 30, 2015





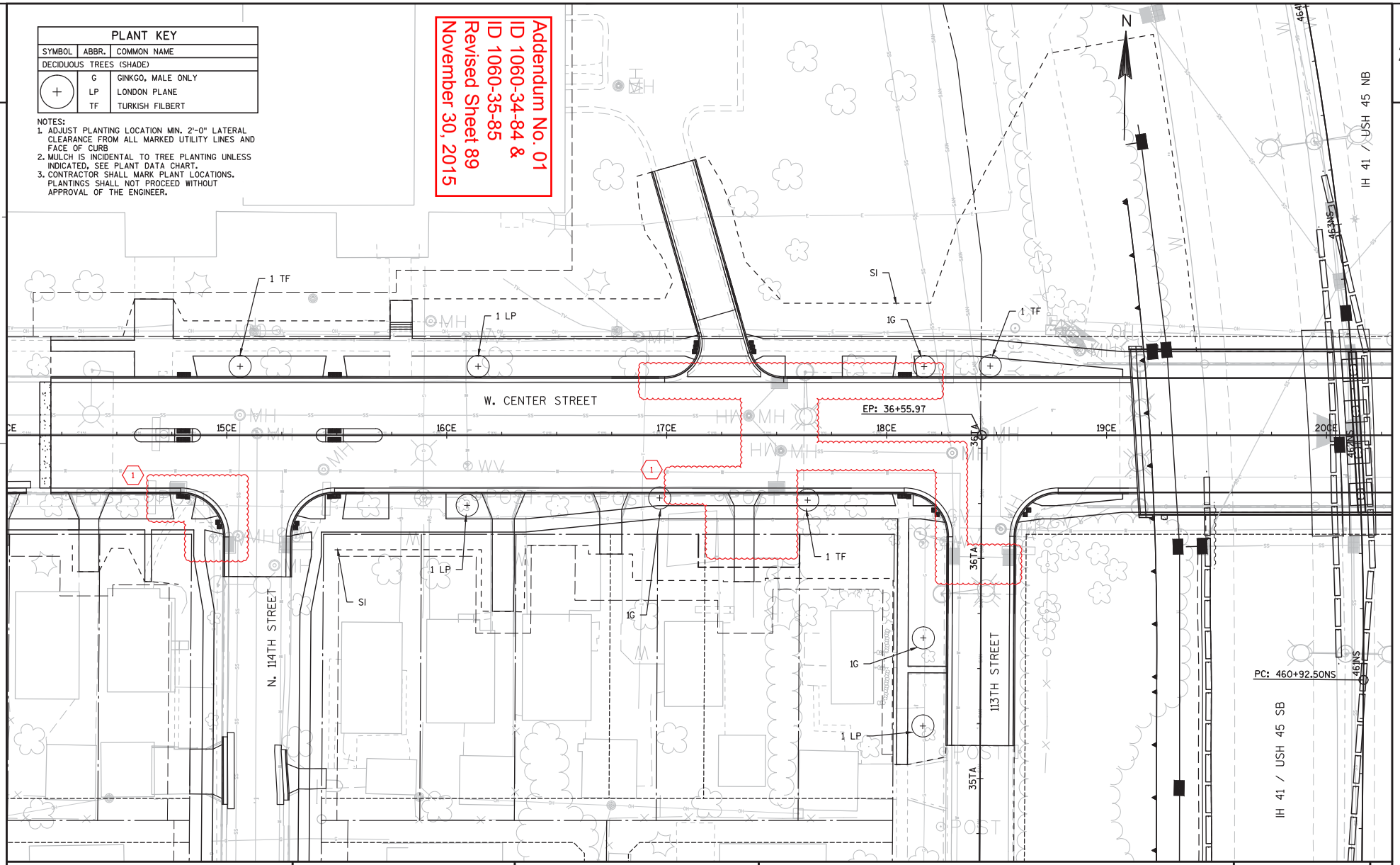
PROJECT NO:1060-34-84	HWY: IH 41	COUNTY: MILWAUKEE	STORM SEWER	SHEET 82	E

FILE NAME : W:\Cadd\Final\10603484_ZN2\Roads\cds\022534_ss.dgn PLOT DATE : 19-NOV-2015 08:52 PLOT BY : MSCJXF PLOT NAME : 022534_ss PLOT SCALE : 100:1

PLANT KEY		
SYMBOL	ABBR.	COMMON NAME
DECIDUOUS TREES (SHADE)		
+	G	GINKGO, MALE ONLY
	LP	LONDON PLANE
	TF	TURKISH FILBERT

NOTES:
1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB
2. MULCH IS INCIDENTAL TO TREE PLANTING UNLESS INDICATED, SEE PLANT DATA CHART.
3. CONTRACTOR SHALL MARK PLANT LOCATIONS. PLANTINGS SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.

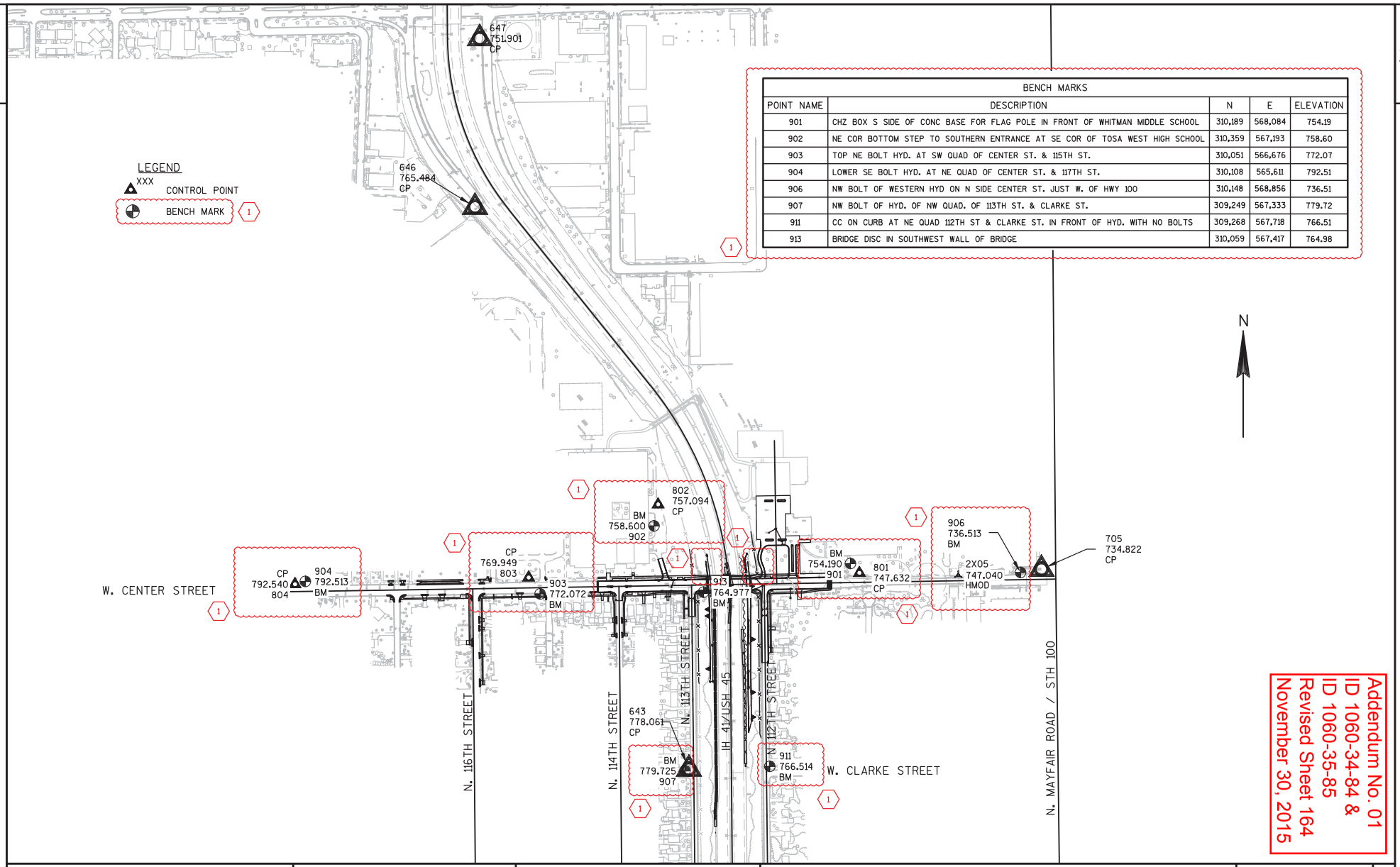
Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 89
November 30, 2015



PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	PLANTING	SHEET 89	E

FILE NAME : W:\PDS\C3D\CAD\10603484\023101_PL.DWG PLOT DATE : 11/24/2015 8:47 AM PLOT BY : SCHWENN, BRANDON C PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42



BENCH MARKS				
POINT NAME	DESCRIPTION	N	E	ELEVATION
901	CHZ BOX S SIDE OF CONC BASE FOR FLAG POLE IN FRONT OF WHITMAN MIDDLE SCHOOL	310,189	568,084	754.19
902	NE COR BOTTOM STEP TO SOUTHERN ENTRANCE AT SE COR OF TOSA WEST HIGH SCHOOL	310,359	567,193	758.60
903	TOP NE BOLT HYD. AT SW QUAD OF CENTER ST. & 115TH ST.	310,051	566,676	772.07
904	LOWER SE BOLT HYD. AT NE QUAD OF CENTER ST. & 117TH ST.	310,108	565,611	792.51
906	NW BOLT OF WESTERN HYD ON N SIDE CENTER ST. JUST W. OF HWY 100	310,148	568,856	736.51
907	NW BOLT OF HYD. OF NW QUAD. OF 113TH ST. & CLARKE ST.	309,249	567,333	779.72
911	CC ON CURB AT NE QUAD 112TH ST & CLARKE ST. IN FRONT OF HYD. WITH NO BOLTS	309,268	567,718	766.51
913	BRIDGE DISC IN SOUTHWEST WALL OF BRIDGE	310,059	567,417	764.98

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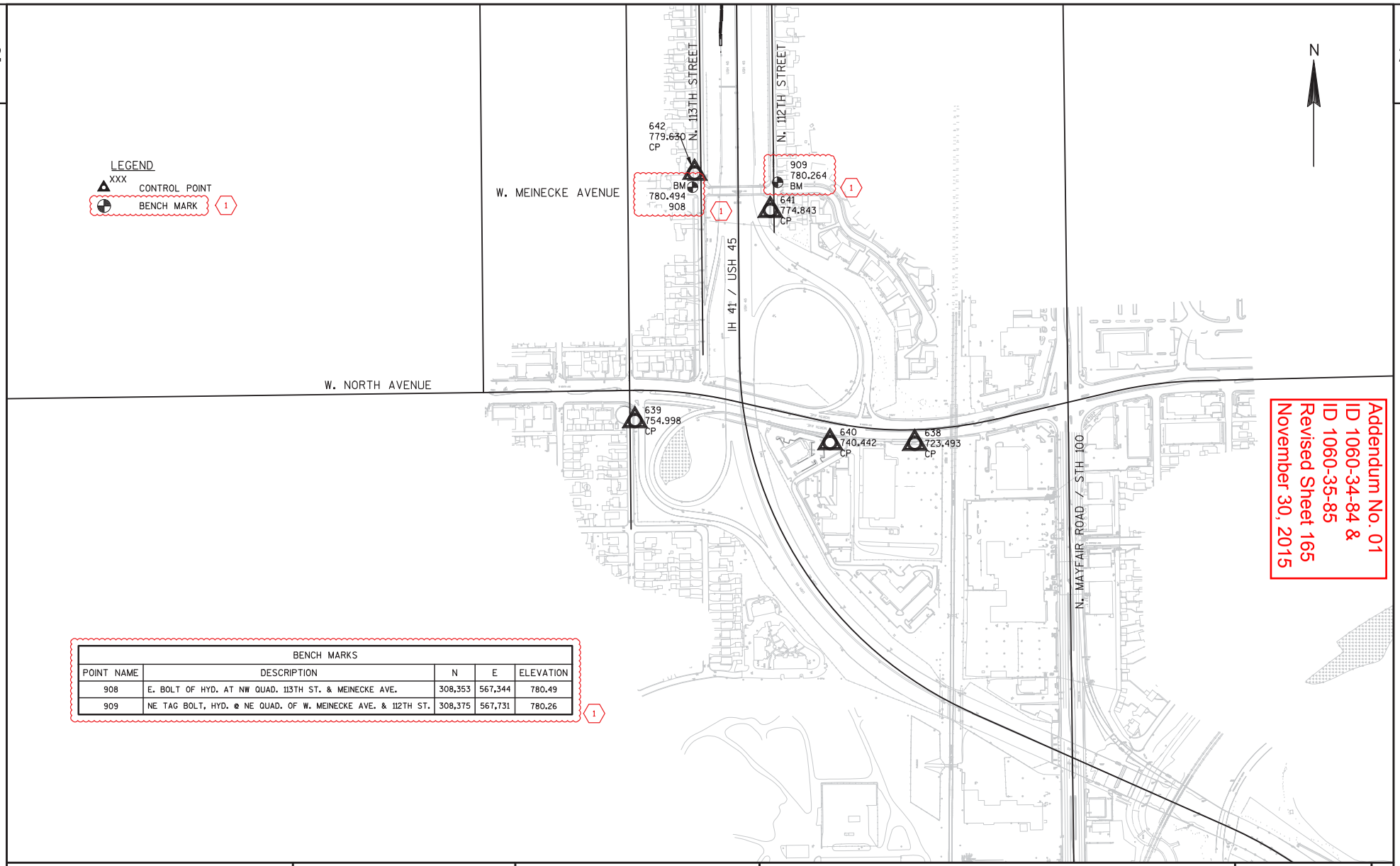
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 164
November 30, 2015

PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL OVERVIEW	SHEET 164	E



BENCH MARKS				
POINT NAME	DESCRIPTION	N	E	ELEVATION
908	E. BOLT OF HYD. AT NW QUAD. 113TH ST. & MEINECKE AVE.	308,353	567,344	780.49
909	NE TAG BOLT, HYD. @ NE QUAD. OF W. MEINECKE AVE. & 112TH ST.	308,375	567,731	780.26

1

PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL OVERVIEW	SHEET 165	E

FILE NAME : W:\PDS\C3D\CAD\10603484\027279_AD.DWG PLOT DATE : 11/23/2015 8:53 AM PLOT BY : SCHWENN, BRANDON C PLOT NAME : PLOT SCALE : 1 IN:400 FT

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
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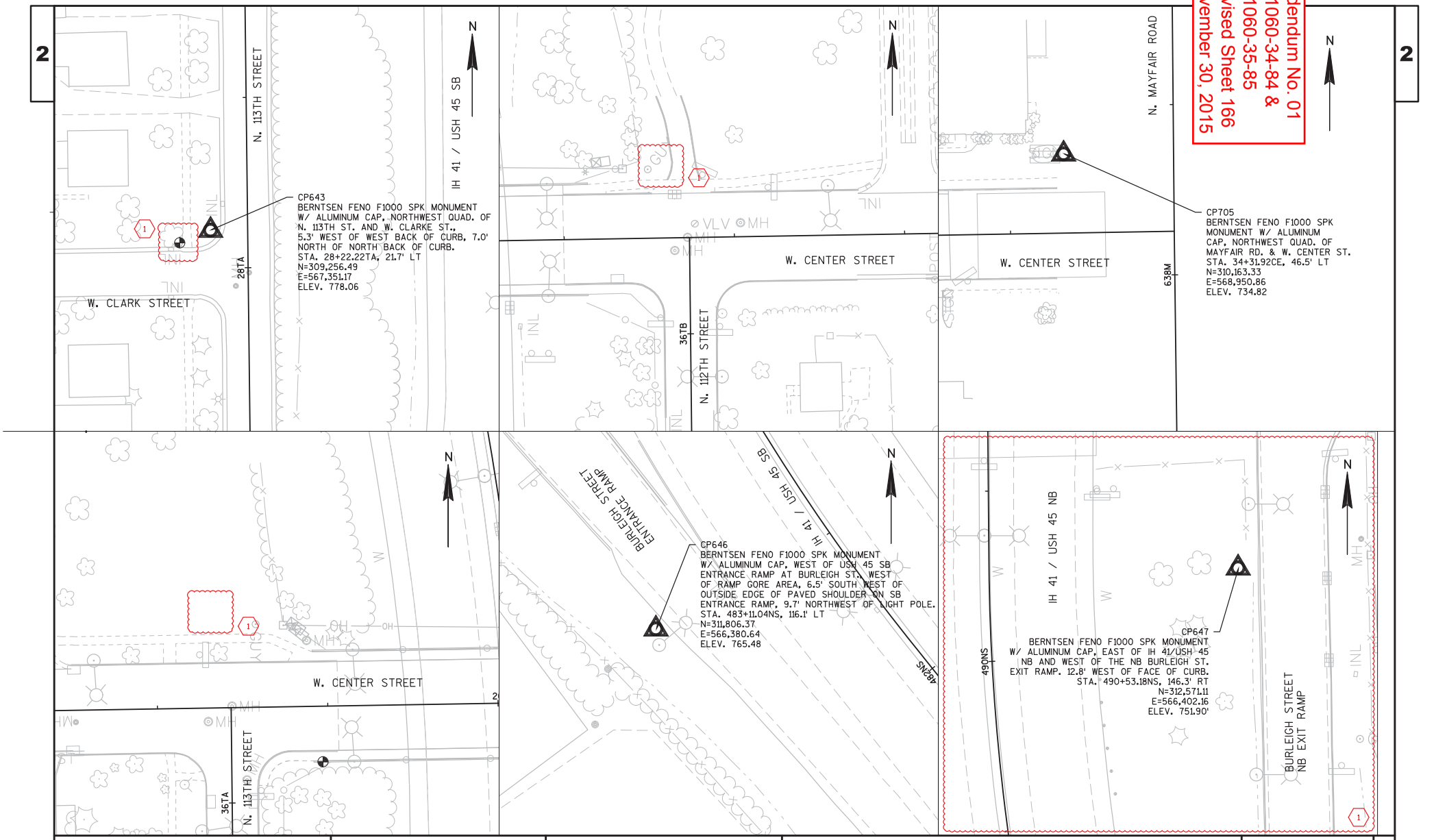
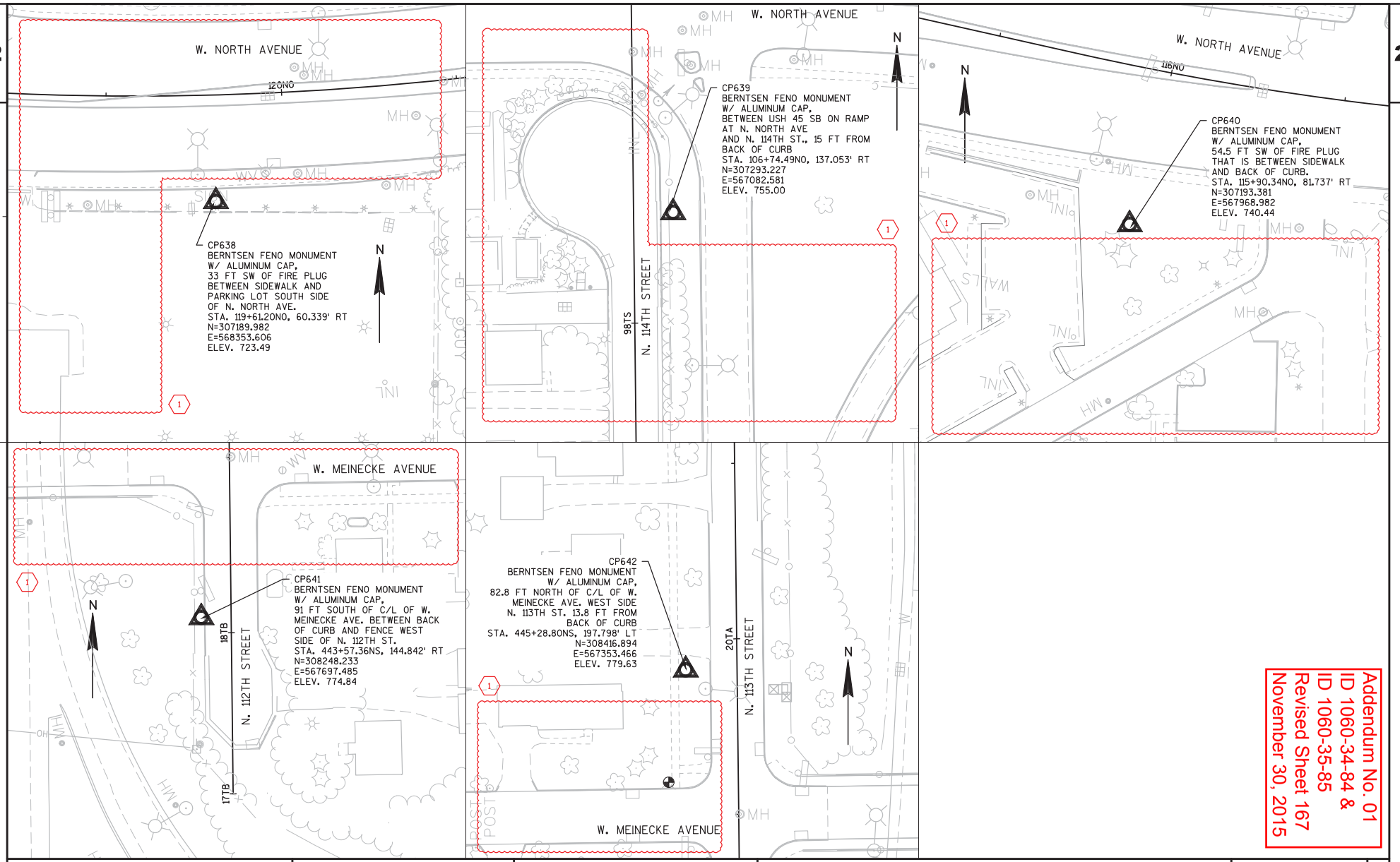
November 30, 2015



PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 166	E

FILE NAME : W:\PDS\C3D\CAD\10603484\027280_AD.DWG
LAYOUT NAME - 027280_AD

PLOT DATE : 11/23/2015 10:53 AM PLOT BY : SCHWENN, BRANDON C PLOT NAME : PLOT SCALE : **********

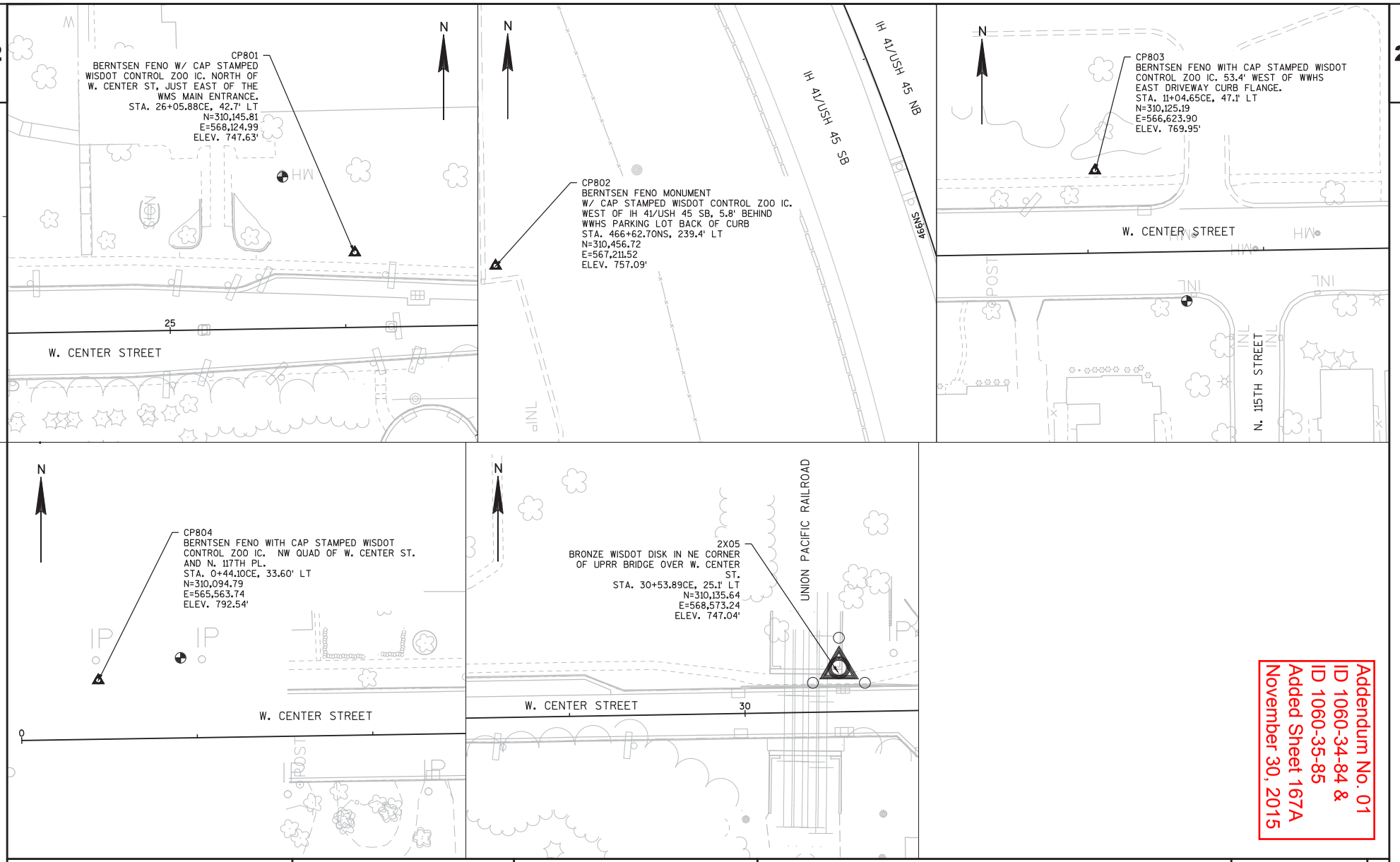


PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 167	E

FILE NAME : W:\PDS\C3D\CAD\10603484\027281_AD.DWG
LAYOUT NAME - 027281_AD

PLOT DATE : 11/23/2015 11:37 AM PLOT BY : SCHWENN, BRANDON C PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42



PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT - SURVEY CONTROL	SHEET 167A	E

FILE NAME : W:\PDS\C3D\CAD\10603484\027281_AD.DWG
LAYOUT NAME - 027281_AD

PLOT DATE : 11/24/2015 8:54 AM PLOT BY : SCHWENN, BRANDON C PLOT NAME : PLOT SCALE : **********

CONCRETE STEPS

ROADWAY	STATION	TO	STATION	OFFSET	602.1500 CONCRETE STEPS SF
PROJECT ID 1060-34-84					
CENTER ST	15+74CE		15+84CE	LT	52
CONTRACT TOTAL					52

TRAFFIC CONTROL

STAGE	LOCATION	643.0100 TRAFFIC CONTROL (1060-35-85) EACH
ALL	PROJECT	1
CONTRACT TOTAL		1

TEMPORARY PEDESTRIAN ACCOMMODATION

STAGE	ROADWAY		644.1410.S TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE LF
PROJECT ID 1060-35-85				
2	CENTER ST	UNDISTRIBUTED	296	224
	TOTAL:		296	224

FENCE

ROADWAY	STATION	TO	STATION	OFFSET	616.0206 FENCE CHAIN LINK 6-FT LF	616.0329.0001 GATES CHAIN LINK 12-FT EACH	616.0700.S FENCE SAFETY LF	SPV.0090.0008 FENCE TEMPORARY 6-FT LF
PROJECT ID 1060-34-84								
N. 113TH STREET	32+07TA		36+15TA	RT	408	--	--	--
N. 112TH STREET	29+58TB		36+09TB	LT	651	--	--	--
W. CENTER STREET	18+71CE		21+45CE	RT	120	2	--	--
W. CENTER STREET	18+47CE		21+47CE	LT	110	2	--	--
IH 41/USH 45	462+38NS		464+20NS	RT	182	--	--	--
IH 41/USH 45	462+66NS		464+36NS	LT	170	--	--	--
UNDISTRIBUTED					--	--	300	1500
CONTRACT TOTAL					1,641	4	300	1500

1

Addendum No. 01
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CATEGORY 1000 UNLESS OTHERWISE NOTED

3

3

STORM SEWER PIPE REMOVALS

ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.0001* REMOVING STORM SEWER 12-INCH LF	204.0245.0002* REMOVING STORM SEWER 15-INCH LF	204.0245.0003* REMOVING STORM SEWER 18-INCH LF
IH 41	462NS+42	0' LT	--	462NS+60	1' LT	18	---	---
CENTER STREET	21CE+31	24' RT	--	21CE+65	8' RT	---	38	---
	21CE+65	26' LT	--	21CE+65	8' RT	33	---	---
112TH STREET	35TB+14	13' RT	--	35TB+45	13' RT	---	30	---
	35TB+41	12' LT	--	35TB+45	13' RT	---	25	---
	35TB+41	13' LT	--	36TB+07	8' LT	---	---	66
	36TB+07	8' LT	--	36TB+49	9' LT	---	---	42
					TOTAL	51	93	108

STORM SEWER STRUCTURE REMOVALS

ROADWAY	STATION	OFFSET	204.0210* REMOVING MANHOLES EACH	204.0220* REMOVING INLETS EACH
IH 41	462NS+42	0' LT	---	1
CENTER STREET	21CE+31	24' RT	---	1
	21CE+65	8' RT	1	---
	21CE+65	26' LT	---	1
	21CE+98	232' LT	---	1
	22CE+79	29' LT	---	1
112TH STREET	35TB+14	13' RT	---	1
	35TB+41	13' LT	---	1
	35TB+45	12' RT	---	1
	36TB+07	8' LT	1	---
TOTALS			2	8

1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

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ALL ITEMS CATEGORY 1000

Addendum No. 01
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ID 1060-35-85
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ADJUSTING DRAINAGE STRUCTURES

LOCATION	STATION	OFFSET FT	EXISTING RIM ELEVATION	TO	PROPOSED RIM ELEVATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115* ADJUSTING INLET COVERS EACH
CENTER STREET							
	21CE+98	339' LT	742.41	--	741.68	---	1
	23CE+08	26' RT	755.03	--	755.83	---	1
	23CE+08	7' RT	755.80	--	756.56	1	---
	23CE+08	49' RT	755.68	--	756.66	1	---
	24CE+09	7' RT	752.56	--	752.80	1	---
	UNDISTRIBUTED**					5	7
TOTALS						8	9

* ADDITONAL QUANTITIES LISTED ELSEWHERE IN PLAN.

** UNDISTRIBUTED ADJUSTING MANHOLE OR INLET COVERS ARE TO BE USED FOR DRAINAGE STRUCTURES CONSTRUCTED UNDER THE CITY OF WAUWATOSA'S LOCAL STORM SEWER PROJECT.

SEALING PIPES

ROADWAY	STATION	OFFSET	PIPE END	PIPE ID	204.0280 SEALING PIPES EACH	NOTES:
IH 41						
	455NS+33	79' RT	DOWNSTREAM	P1205	1	INSTALL MARKER BOARD
	455NS+32	81' RT	DOWNSTREAM	P1153	1	INSTALL MARKER BOARD
	459NS+28	72' RT	UPSTREAM	P1194B	1	INSTALL MARKER BOARD
	461NS+55	68' RT	UPSTREAM	P1147	1	INSTALL MARKER BOARD
	461NS+58	9' LT	DOWNSTREAM	P1136F	1	---
	462NS+50	74' RT	UPSTREAM	P1098A	1	INSTALL MARKER BOARD
	463NS+23	78' RT	UPSTREAM	P1082A	1	INSTALL MARKER BOARD
	463NS+50	91' LT	UPSTREAM	P1118	1	INSTALL MARKER BOARD
	463NS+59	84' LT	UPSTREAM	P1116	1	INSTALL MARKER BOARD
TOTAL					9	

CONCRETE COLLARS FOR PIPE

ROADWAY	STATION	OFFSET	520.8000 CONCRETE COLLARS FOR PIPE EACH
IH 41			
	461NS+55	69' LT	1
	461NS+59	71' LT	1
	462NS+61	1' LT	1
CENTER STREET	21CE+68	7' RT	1
	21CE+98	234' LT	1
	22CE+81	27' LT	1
TOTAL			6

1

PIPE CONNECTION TO EXISTING STRUCTURE

ROADWAY	STATION	OFFSET	SPV.0060.8015 PIPE CONNECTION TO EXISTING STRUCTURE EACH
CENTER STREET			
	23CE+06	24' RT	1
TOTAL			1

COVER PLATES LEFT IN PLACE

ROADWAY	STRUCTURE ID	STATION	OFFSET	FUTURE CASTING	FUTURE CASTING & 0.33' THICKNESS FT	SPV.0060.8005 COVER PLATES LEFT IN PLACE EACH
IH 41						
	N1152	455NS+88	94' RT	MS-2	0.00'	1
	N1204	457NS+28	79' RT	J-S	1.07'	1
	N1199A	457NS+37	84' RT	27-M	1.00'	1
	N1178	457NS+65	84' LT	V	1.17'	1
	N1198A	458NS+12	84' RT	V	1.17'	1
	N1196	459NS+28	79' RT	J-S	1.07'	1
	1151A	459NS+39	85' RT	27-M	1.00'	1
	N1185	459NS+29	85' LT	V	1.17'	1
	N1150A	460NS+42	86' RT	V	1.17'	1
	N1131	460NS+43	86' LT	V	1.17'	1
	N1194	461NS+55	81' RT	J-S	1.07'	1
	N1109A	461NS+65	86' RT	V	1.17'	1
	N1107A	461NS+75	90' RT	MS-1	0.00'	1
	N1108A	461NS+75	86' RT	V	1.17'	1
	N1136E	462NS+00	6' LT	V	1.17'	1
	N1121	462NS+50	90' LT	MS-1	0.00'	1
	N1123	462NS+50	86' LT	V	1.17'	1
	N1099	462NS+50	81' RT	J-S	1.07'	1
	N1102A	462NS+60	86' RT	V	1.17'	1
	N1101A	463NS+10	86' RT	V	1.17'	1
	N1105	463NS+30	96' RT	MS-2	0.00'	1
	N1119	463NS+50	86' LT	V	1.17'	1
TOTAL						22

1

ALL ITEMS CATEGORY 1000

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH[1] (FT)	STRUCTURE COMMENTS[2]	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS[2]
112TH STREET	N554	35TB+13.69	15.0	RT	757.07	INLETS 4-FT DIAMETER	H	4.58	IN	P555	N554	N557	752.49	752.27	1.00	22	26	III	15	IN
112TH STREET	N557	35TB+13.73	15.0	LT	757.20	INLETS 4-FT DIAMETER	H	4.93	IN	P556	N557	N560	752.27	752.04	1.00	23	27	III	15	IN
112TH STREET	N558	35TB+44.32	15.0	RT	757.94	INLETS 4-FT DIAMETER	H	5.68	IN	P559	N558	N560	752.26	752.04	1.00	22	26	III	15	IN
112TH STREET	N560	35TB+40.57	15.0	LT	757.92	INLETS 4-FT DIAMETER	H	6.13	IN	P561	N560	N570	751.79	750.75	1.00	104	109	III	18	IN
CENTER STREET	N564	21CE+36.70	26.0	LT	762.57	INLETS 4-FT DIAMETER	H	4.57	IN	P565	N564	N570	758.00	757.63	1.00	37	42	III	12	IN
CENTER STREET	N568	21CE+30.42	26.0	RT	762.80	INLETS 4-FT DIAMETER	H	4.84	IN	P569	N568	N570	757.96	757.63	1.00	33	38	III	12	IN
CENTER STREET	N570	21CE+64.84	7.4	RT	761.99	MANHOLES 6-FT DIAMETER	J-SPECIAL	12.24	IN	PE571	N570	---	749.75	---	---	---	---	---	30	EXIST PIPE INTERPOL ELEV
CENTER STREET	N572	22CE+79.47	28.4	LT	757.07	INLETS 2x3-FT	H	4.92	IN	PE573	N572	---	752.15	---	---	---	---	---	12	EXIST PIPE INTERPOL ELEV
CENTER STREET	N574	22CE+91.40	64.6	RT	753.90	INLETS MEDIAN 1 GRATE	MS	1.77	OUT	P575	N574	N576	752.13	751.94	0.50	37	41	III	15	OUT
CENTER STREET	N576	22CE+91.40	26.0	RT	756.49	INLETS 4-FT DIAMETER	H	4.55	IN	P577	N576	NE579	751.94	751.88	0.50	12	16	III	15	IN
---	---	---	---	---	---	---	---	--	---	PE578	---	NE579	---	750.16	---	---	---	---	15	EXIST PIPE INTERPOL ELEV
CENTER STREET	NE579	23CE+07.88	26.0	RT	755.83	---	---	---	SEE ADJUSTING STRUCTURES TABLE	PE580	NE579	---	750.16	---	---	---	---	---	15	EXIST PIPE INTERPOL ELEV
CENTER STREET	N590	22CE+59.29	174.4	LT	743.38	INLETS 3-FT DIAMETER	R-SPECIAL	3.51	IN	P591	N590	N592	739.87	739.72	1.00	15	18	III	12	IN
CENTER STREET	N592	22CE+57.26	195.5	LT	742.86	INLETS 3-FT DIAMETER	R-SPECIAL	3.14	IN	P593	N592	N594	739.72	739.13	1.00	59	62	III	12	IN
CENTER STREET	N594	22CE+30.00	250.0	LT	741.86	INLETS 4-FT DIAMETER	X	2.73	IN	P595	N594	N596	739.13	738.80	1.00	33	37	III	12	IN
CENTER STREET	N596	21CE+97.84	232.3	LT	743.35	MANHOLES 4-FT DIAMETER	J-SPECIAL	4.55	IN	PE597	N596	---	738.80	---	---	---	---	---	8	EXIST PIPE INTERPOL ELEV
IH 41	N990	462 NS+59.33	3.2	LT	742.51	INLETS 4-FT DIAMETER	V	3.63	IN	PE991	N990	---	738.88	---	---	---	---	---	12	EXIST PIPE INTERPOL ELEV

1

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[2] IN = PIPE OR STORM STRUCTURE WILL BE WITHIN PROPOSED OR FUTURE TRAVELED WAY.
OUT = PIPE OR STORM STRUCTURE WILL BE OUTSIDE THE PROPOSED OR FUTURE TRAVELED WAY.
WALL = BACKFILL SLURRY PIPE OR STORM STRUCTURE UPTO PROPOSED SUBGRADE

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

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ID 1060-35-85
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STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH[1] (FT)	STRUCTURE COMMENTS[2]	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS[2]
---	---	---	---	---	---	---	---	--	---	P1082A	BULKHEAD	N1099	730.49	730.27	0.30	72	77	HE-III	48x76	WALL
---	---	---	---	---	---	---	---	--	---	P1098A	BULKHEAD	N1099	732.30	732.28	0.50	3	7	III	24	WALL
IH 41	N1099	462 NS+49.83	80.5	RT	743.02	MANHOLES 9-FT SPECIAL	---	12.75	WALL & COVER PLATE LEFT IN PLACE, FUTURE J-S COVER IN PAVEMENT	P1100	N1099	N1194	730.27	730.00	0.30	90	99	HE-III	48x76	WALL
IH 41	N1101A	463 NS+10.03	86.0	RT	743.27	MANHOLES 5-FT DIAMETER	---	6.46	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1101B	N1101A	N1102A	736.81	736.33	1.00	48	52	III	24	WALL
IH 41	N1102A	462 NS+60.49	86.0	RT	743.04	INLETS 4-FT DIAMETER	---	6.71	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1102B	N1102A	N1099	736.33	736.28	1.00	5	12	III	24	WALL
IH 41	N1105	463 NS+29.99	96.0	RT	741.30	INLETS MEDIAN 2 GRATE	---	4.30	WALL & COVER PLATE LEFT IN PLACE - FUTURE MS-2 COVER OUTSIDE PAVEMENT	P1106	N1105	N1101A	737.00	736.81	1.00	20	24	III	24	WALL
IH 41	N1107A	461 NS+75.00	90.0	RT	742.62	INLETS MEDIAN 1 GRATE	---	5.45	WALL & COVER PLATE LEFT IN PLACE - FUTURE MS-1 COVER OUTSIDE PAVEMENT	P1107B	N1107A	N1108A	737.17	737.16	0.50	3	6	III	18	WALL
IH 41	N1108A	461 NS+75.00	86.0	RT	742.74	INLETS 4-FT DIAMETER	---	6.08	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1108B	N1108A	N1109A	736.66	736.63	0.50	6	10	III	24	WALL
IH 41	N1109A	461 NS+65.23	86.0	RT	742.76	INLETS 4-FT DIAMETER	---	6.13	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1109B	N1109A	N1194	736.63	736.61	0.50	4	11	III	24	WALL
---	---	---	---	---	---	---	---	--	---	P1116	BULKHEAD	N1119	736.13	736.07	1.00	6	8	IV	24	IN
---	---	---	---	---	---	---	---	--	---	P1118	BULKHEAD	N1119	737.17	736.07	22.00	5	8	III	24	OUT
IH 41	N1119	463 NS+50.18	86.0	LT	740.97	MANHOLES 5-FT DIAMETER	---	4.90	CONNECT UNDERDRAIN FROM WALL R-40-577,WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1120	N1119	N1123	736.07	735.80	0.30	90	95	IV	24	WALL
IH 41	N1121	462 NS+49.79	90.2	LT	739.98	INLETS MEDIAN 1 GRATE	---	3.67	WALL & COVER PLATE LEFT IN PLACE - FUTURE MS-1 COVER OUTSIDE PAVEMENT	P1122	N1121	N1123	736.31	736.30	0.30	3	7	III	18	WALL
IH 41	N1123	462 NS+49.83	86.0	LT	740.21	MANHOLES 5-FT DIAMETER	---	4.41	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1124	N1123	N1135	735.80	735.55	0.30	84	90	IV	24	WALL
IH 41	N1131	460 NS+42.56	85.7	LT	743.66	INLETS 4-FT DIAMETER	---	4.84	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1132	N1131	N1135	738.82	736.84	1.90	105	110	III	24	WALL

1

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[2] IN = PIPE OR STORM STRUCTURE WILL BE WITHIN PROPOSED OR FUTURE TRAVELED WAY.
OUT = PIPE OR STORM STRUCTURE WILL BE OUTSIDE THE PROPOSED OR FUTURE TRAVELED WAY.
WALL = BACKFILL SLURRY PIPE OR STORM STRUCTURE UPTO PROPOSED SUBGRADE

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
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STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH[1] (FT)	STRUCTURE COMMENTS[2]	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PLAN LENGTH[C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS[2]
IH 41	N1135	461 NS+55.45	86.0	LT	741.02	MANHOLES 6-FT DIAMETER	V	5.97	WALL	P1136A	N1135	N1136B	735.05	735.01	0.50	8	11	III	30	WALL
---	---	---	---	---	---	---	---	--	----	PE1136B	---	N1136C	---	737.11	---	---	---	---	24	EXIST PIPE INTERPOL ELEV
IH 41	N1136C	461 NS+55.36	72.7	LT	742.44	MANHOLES 8-FT DIAMETER	X	5.83	WALL	PE1136D	N1136C	---	736.61	---	---	---	---	---	30	EXIST PIPE INTERPOL ELEV
IH 41	N1136E	462 NS+00.00	6.0	LT	744.52	INLETS 4-FT DIAMETER	---	6.25	COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1136F	N1136E	BULKHEAD	738.27	737.87	1.00	40	44	III	24	IN
---	---	---	---	---	---	---	---	--	---	P1147	BULKHEAD	N1194	732.20	732.17	0.50	8	12	III	30	WALL
IH 41	N1150A	460 NS+42.15	85.7	RT	744.01	INLETS 4-FT DIAMETER	---	6.58	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1150B	N1150A	N1151A	737.43	736.43	1.00	100	104	III	24	WALL
IH 41	N1151A	459 NS+38.55	85.0	RT	746.11	INLETS 4-FT DIAMETER	---	9.68	WALL & COVER PLATE LEFT IN PLACE - FUTURE 27-M COVER AT BARRIER	P1151B	N1151A	N1196	736.43	736.39	1.00	4	11	III	24	WALL
IH 41	N1152	455 NS+88.03	94.0	RT	752.50	INLETS MEDIAN 2 GRATE	---	5.72	WALL & COVER PLATE LEFT IN PLACE - FUTURE MS-2 COVER OUTSIDE PAVEMENT	P1153	N1152	BULKHEAD	746.78	746.23	1.00	55	62	III	18	WALL
IH 41	N1176	457 NS+64.68	94.1	LT	748.00	INLETS MEDIAN 2 GRATE	MS	3.90	WALL	P1177	N1176	N1178	744.10	743.93	1.90	9	13	III	24	WALL
IH 41	N1178	457 NS+64.69	84.0	LT	750.11	MANHOLES 5-FT DIAMETER	---	6.18	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1183	N1178	N1185	743.93	740.90	1.90	159	164	III	24	WALL
IH 41	N1185	459 NS+28.60	84.9	LT	746.58	INLETS 4-FT DIAMETER	---	5.68	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1186	N1185	N1131	740.90	738.82	1.90	110	114	III	24	WALL
IH 41	N1194	461 NS+55.45	80.5	RT	742.84	MANHOLES 9-FT SPECIAL	---	12.84	WALL & COVER PLATE LEFT IN PLACE - FUTURE J-S COVER IN PAVEMENT	P1195	N1194	N1196	730.00	729.34	0.30	221	230	HE-III	48x76	WALL
---	---	---	---	---	---	---	---	--	---	P1194B	BULKHEAD	N1196	736.65	736.60	2.00	3	7	III	30	WALL
IH 41	N1196	459 NS+28.43	79.4	RT	746.48	MANHOLES 9-FT SPECIAL	---	17.14	WALL & COVER PLATE LEFT IN PLACE - FUTURE J-S COVER IN PAVEMENT	P1197	N1196	N1204	729.34	728.67	0.35	191	200	HE-IV	48x76	WALL
IH 41	N1198A	458 NS+11.88	84.1	RT	749.10	INLETS 4-FT DIAMETER	---	6.43	WALL & COVER PLATE LEFT IN PLACE - FUTURE V COVER AT BARRIER	P1198B	N1198A	N1199A	742.67	742.32	0.50	71	75	III	24	WALL
IH 41	N1199A	457 NS+37.14	84.0	RT	750.87	INLETS 4-FT DIAMETER	---	8.55	WALL & COVER PLATE LEFT IN PLACE - FUTURE 27-M COVER AT BARRIER	P1199B	N1199A	N1204	742.32	742.30	0.50	3	10	III	24	WALL
IH 41	N1204	457 NS+28.25	78.5	RT	751.21	MANHOLES 9-FT SPECIAL	---	22.54	WALL & COVER PLATE LEFT IN PLACE - FUTURE J-S COVER IN PAVEMENT	P1205	N1204	BULKHEAD	728.67	728.00	0.35	191	200	HE-IV	48x76	WALL

1

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[2] IN = PIPE OR STORM STRUCTURE WILL BE WITHIN PROPOSED OR FUTURE TRAVELED WAY.
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[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

3

3

STORM SEWER STRUCTURE SUMMARY

611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005* MANHOLES 5-FT DIAMETER EACH	611.2006* MANHOLES 6-FT DIAMETER EACH	611.2008* MANHOLES 8-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	SPV.0060.8012 * MANHOLES 9-FT SPECIAL EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	611.0663 INLET COVERS TYPE X EACH	SPV.0060.8006 INLET COVERS TYPE R[1]-SPECIAL EACH
1	4	2	1	2	19	1	3	3	4	2	8	3	2	2	2

1

STORM SEWER PIPE SUMMARY

608.0312* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	610.0148 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 48X76-INCH LF	SPV.0090.8010 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 48X76-INCH LF
197	136	184	769	30	193	406	400

1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

[1]TOP SLAB OPENING FOR INLET COVERS TYPE R-SPECIAL SHALL BE 1'-7"X2'-6"

ALL ITEMS CATEGORY 1000

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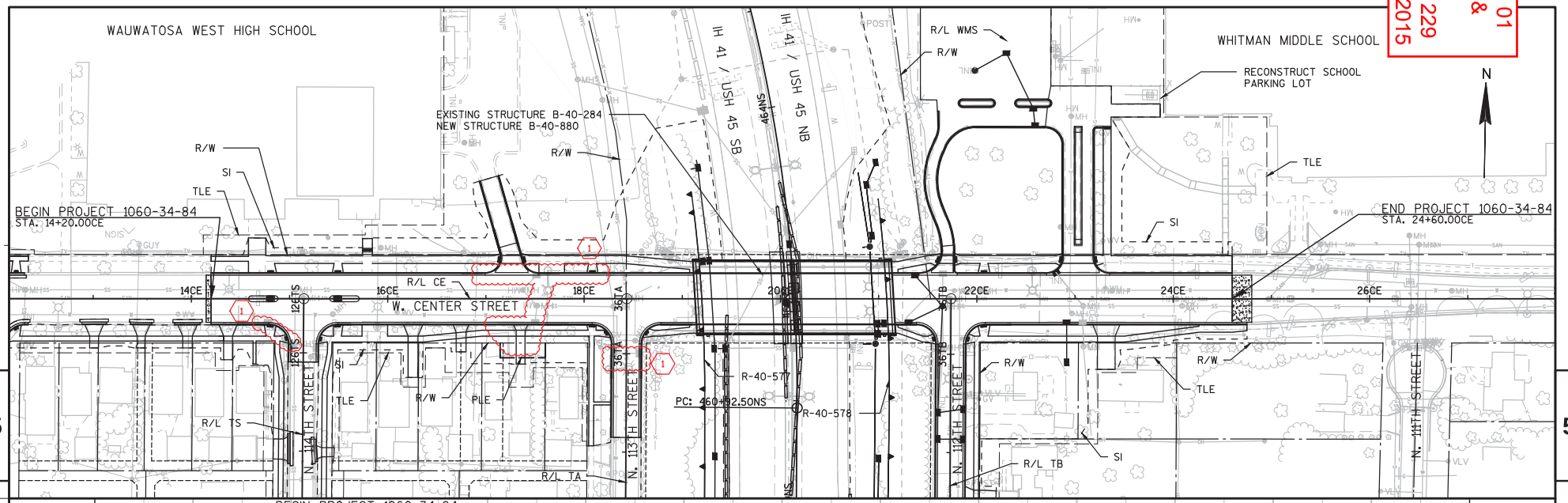
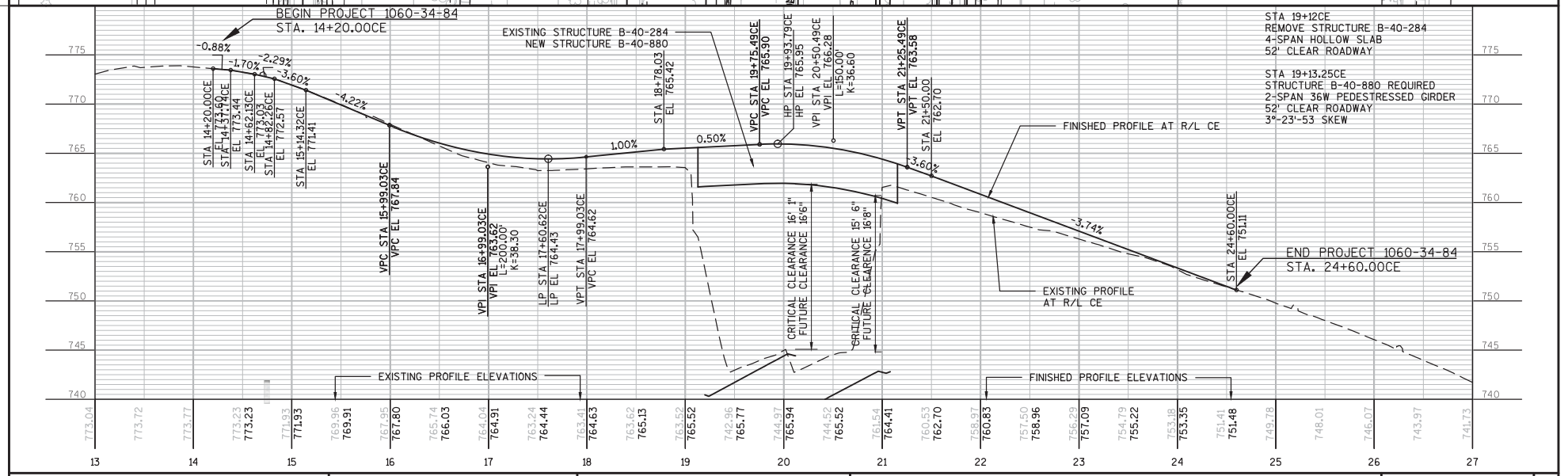
ID 1060-35-85
Revised Sheet 229
November 30, 2015





PROJECT NO: 1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. CENTER STREET	SHEET 229	E

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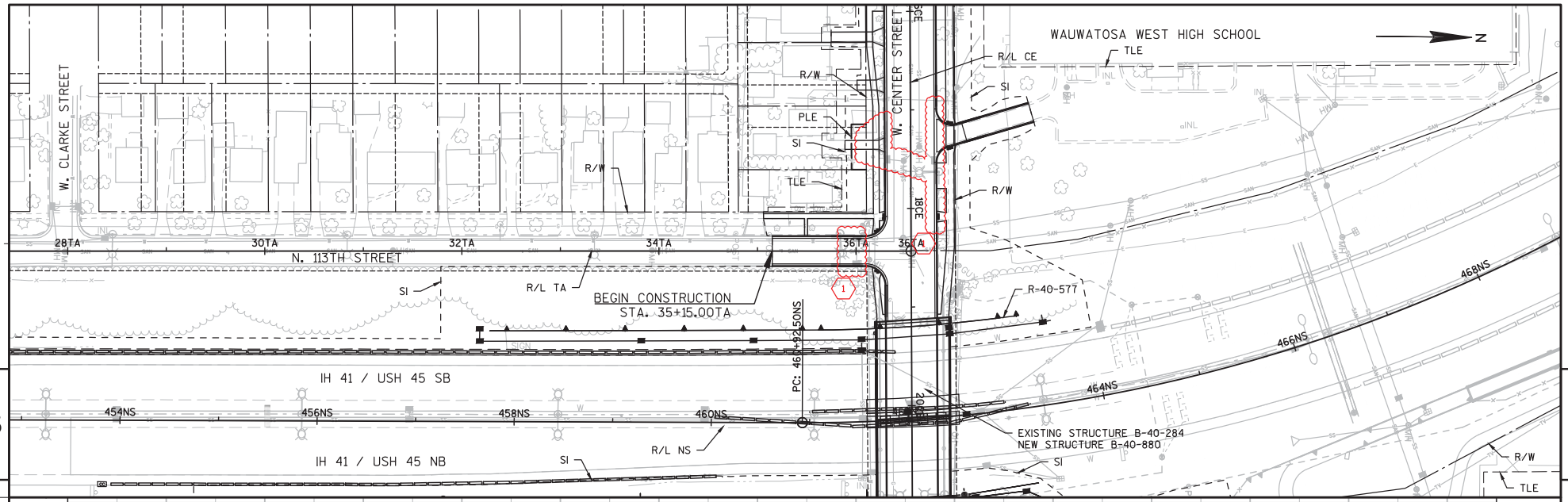
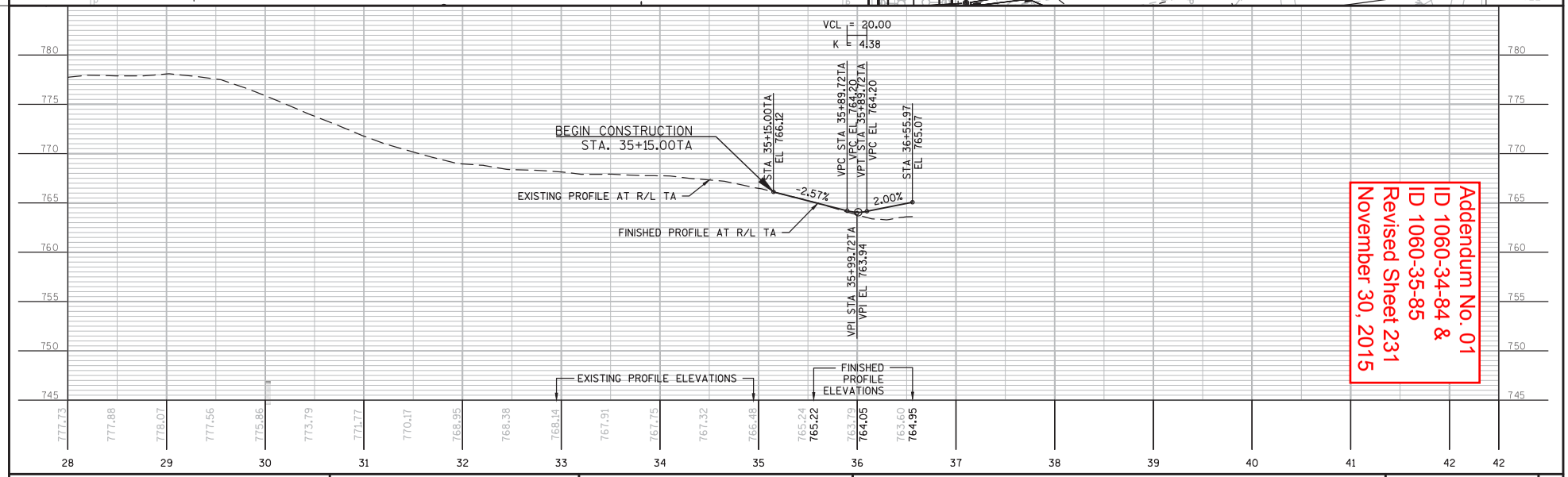
WISDOT/CADDS SHEET 44





Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 231
November 30, 2015

PROJECT NO:1060-34-84/1060-35-85	HWY: IH 41	COUNTY: MILWAUKEE	PLAN AND PROFILE: N. 113TH STREET	SHEET 231	E

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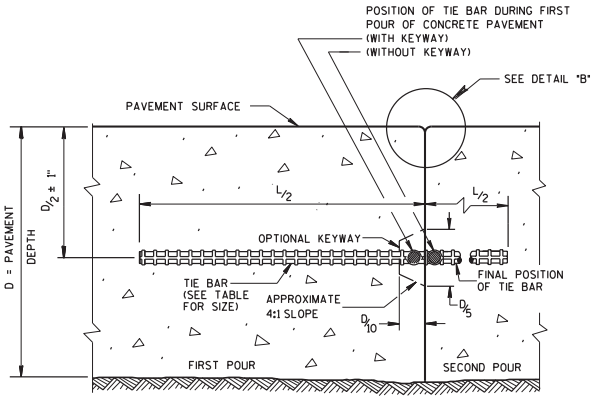
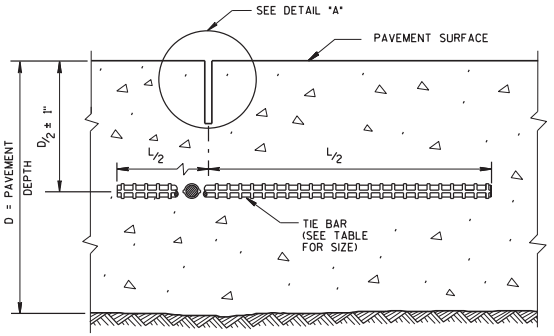
WISDOT/CADDS SHEET 44



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

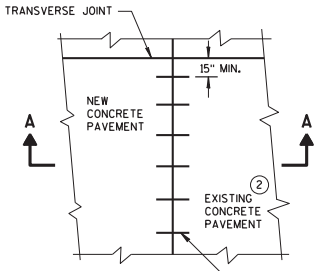
DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

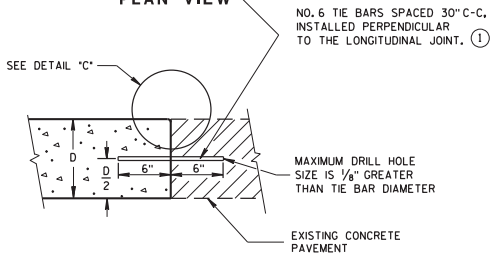
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

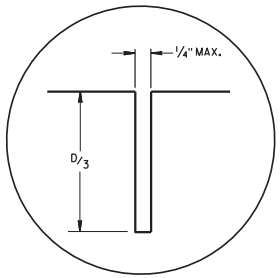
(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



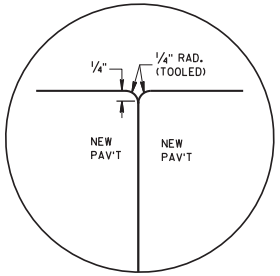
PLAN VIEW



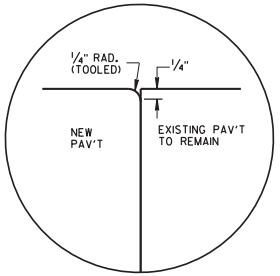
SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT
TIE BARS ANCHORED
INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



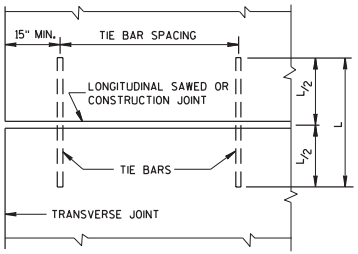
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Added Sheet 264A
November 30, 2015

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June. 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPERVISOR
FHWA

6

6

S.D.D. 13 C 1-18

S.D.D. 13 C 1-18

STATE PROJECT NUMBER
1060-34-84

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL WITHIN THE WALL IN THE REINFORCING ZONE	30	0	120
FILL BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
B-7, 11+00			
SILT, GRAY, TRACE SAND AND GRAVEL (ELEVATION 745.9FT - 741.4FT)	0	4,500	135
SAND, GRAY, FINE TO MEDIUM (ELEVATION 741.4FT - 737.4FT)	36	0	135
SILT, GRAY, TRACE SAND, TRACE CLAY (ELEVATION 737.4FT - 723.4FT)	0	2,500	125
SILT, GRAY, TRACE SAND, TRACE CLAY (ELEVATION 723.4FT-716.4FT)	0	4,500	135
B-6, 12+00			
SILT, GRAY, TRACE CLAY, TRACE SAND, TRACE GRAVEL (ELEVATION 743.4FT -738.4FT)	0	4,500	135
SAND, GRAY, FINE TO MEDIUM (ELEVATION 738.4FT - 732.4FT)	32	0	120
CLAY, GRAY, LITTLE SILT, TRACE SAND, TRACE GRAVEL (ELEVATION 732.4FT - 710.4FT)	0	3,000	128
CLAY, GRAY, LITTLE SILT, TRACE SAND, TRACE GRAVEL (ELEVATION 710.4FT - 709.4FT)	0	4,500	135
B-1, 14+60			
CLAY, GRAY, TRACE GRAVEL (ELEVATION 738.6FT - 733.6FT)	0	3,000	125
CLAY, GRAY, TRACE GRAVEL (ELEVATION 733.6FT - 729.6FT)	0	2,500	120
CLAY, GRAY, TRACE GRAVEL (ELEVATION 729.6FT - 717.6FT)	0	2,000	120
CLAY AND SILT, GRAY, TRACE SAND AND GRAVEL (ELEVATION 717.6FT - 705.6FT)	0	4,500	135
CLAY, GRAY, TRACE SAND (ELEVATION 705.6FT - 700.6FT)	0	2,000	120
SILT, GRAY, SOME SAND, TRACE GRAVEL (ELEVATION 700.6FT AND BELOW)	0	25,000	135

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS					
WALL HEIGHT (FEET)[1]	10.2	13.2	18.8	26.4	
EXPOSED WALL HEIGHT (FEET)	8.7	11.7	17.3	24.9	
LENGTH OF REINFORCEMENT (FEET)[3]	8.0	9.2	17.4	18.5	
LENGTH OF REINF. / WALL HEIGHT	N.A.	0.70	0.93	0.70	
WALL STATION	11+00.0	12+00.0	14+50.0	14+67.2	
BORING USED	B-7	B-6	B-1	B-1	
CAPACITY TO DEMAND RATIO (CDR)[4]					
SLIDING ($CDR_{REQ'D}$ > 1.0)	1.4	1.3	1.0	1.5	
ECCENTRICITY ($CDR_{REQ'D}$ > 1.0)	1.5	1.2	1.0	1.3	
GLOBAL STABILITY ($CDR_{REQ'D}$ > 1.0)	N.A.	N.A.	2.1	N.A.	
BEARING RESISTANCE ($CDR_{REQ'D}$ > 1.0)	2.4	1.8	1.1	1.1	
REQUIRED BEARING RESISTANCE (PSF)	6,000	6,000	7,000	7,000	

1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD THAT WAS EQUAL TO THE WEIGHT OF THE SOIL BEHIND THE ABUTMENT.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH AT THAT LOCATION.
4. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORSE ARE PRESENTED IN CH. 14 OF THE BRIDGE MANUAL.
5. NA NOT APPLICABLE, GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CONCRETE COPING IS TO BE EPOXY COATED.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP," IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE LEVELING PAD. THE TOP OF LEVELING PAD IS ASSUMED TO BE 1'-6" BELOW FINISHED GRADE. ALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

THE QUANTITY OF CONCRETE MASONRY & REINFORCING STEEL, FOR THE CAST-IN-PLACE COPING, IS PAID FOR UNDER THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP."

THE UPPER LIMITS OF EXCAVATION FOR "EXCAVATION FOR STRUCTURES RETAINING WALL R-40-577" SHALL BE THE EXISTING GROUND LINE.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF WALL R-40-577 WITH THE CONSTRUCTION OF THE WEST ABUTMENT OF BRIDGE B-40-880.

OVER EXCAVATE 6" BELOW THE LEVELING PAD AND REINFORCEMENT ZONE ALONG THE LENGTH OF WALL TO REMOVE ANY UNSUITABLE MATERIAL. BACKFILL REMOVAL AREAS WITH GRANULAR BACKFILL. WORK SHALL BE INCIDENTAL TO THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP". ⚠

THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP".

EXPANSION/CONTRACTION JOINT CALLOUTS ARE FOR INFORMATIONAL USE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF EXPANSION/CONTRACTION JOINTS. SEE "COPING DETAILS" SHEET FOR DETAILS.

THE QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 7½". FOR PANEL THICKNESSES DIFFERENT THAN 7½" INCHES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP".

ALL OF THE RETAINING WALL'S STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL PANELS.

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 PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP."

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30 DEGREES WITHOUT CERTIFIED TEST VALUES.

ALL STATIONS AND ELEVATIONS ARE IN FEET, ELEVATIONS ARE REFERENCED TO THE NAVD 88 DATUM.

EXISTING STRUCTURE B-40-284 IS NOT SHOWN IN THESE PLANS. THE REMOVAL OF THIS STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM AS PART OF THE B-40-880 BRIDGE QUANTITIES.

THESE PLANS ARE FOR A PRECAST CONCRETE PANEL MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL.

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE UNREINFORCED CONCRETE LEVELING PAD, MSE PRECAST WALL PANELS, MSE BACKFILL AND REINFORCING STRIPS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP".

PROVIDE A SACK RUBBED FINISH IN ACCORDANCE TO STANDARD SPECIFICATION 502.3.7.5 AND AS MODIFIED HERE ON ALL EXPOSED CONCRETE SURFACES WHERE CONCRETE STAINING WILL BE APPLIED IN A FUTURE CONTRACT. THE MORTAR SHALL CONTAIN ONE OF THE FOLLOWING ACRYLIC BONDING ADMIXTURES MIXED AND APPLIED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS; TK-225 BY TK PRODUCTS, ACHRO 60 BY THORO PRODUCTS, OR ACHRO SET BY MASTER BUILDERS. THIS WORK IS INCIDENTAL TO THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABALIZED EARTH LRFD/QMP".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

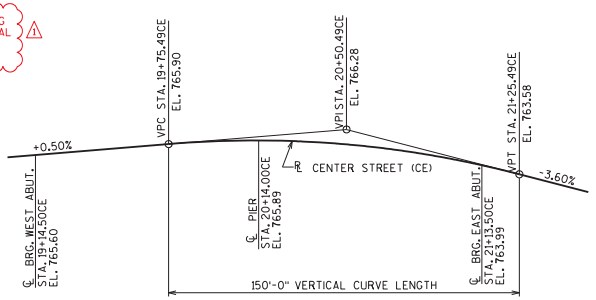
UTILITIES LABELED PROPOSED MAY BE INSTALLED PRIOR TO CONSTRUCTION.

ONLY WALL CONCRETE PANEL MSE WALL SYSTEMS THAT USE STRIP TYPE SOIL REINFORCEMENT THAT ARE HINGED AT THE PANEL CONNECTION CAN BE USED FOR THE PROJECT. ⚠

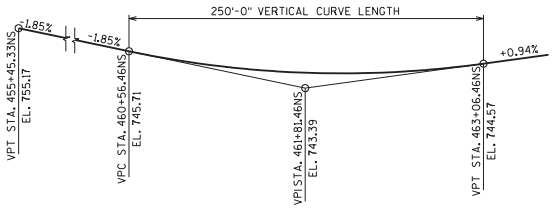
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	QUANTITY	UNIT
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALL R-40-577	1	LS
513.2001	RAILING PIPE R-40-577	465	LF
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	9	SY
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	575	LF
SPV.0165.4005	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/QMP	7,670	SF
	NON-BID ITEMS		
	EXPANDED POLYSTYRENE	1"	SIZE
	PREFORMED JOINT FILLER	¾"	SIZE
	NON-BITUMINOUS JOINT SEALER		
	NAME PLATE		

ALL ITEMS ARE CATEGORY 3000



PROFILE GRADE LINE FOR CENTER STREET



PROFILE GRADE LINE IH 41 SB

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 399
November 30, 2015

NO.	DATE	REVISION	BY
⚠1	11/30/15	GENERAL NOTES	MSC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-577

DRAWN BY APC | PLANS CK'D. MSC

William C. Dreher
11/30/15

QUANTITIES & SOIL INFORMATION

SHEET 2

399

SCALE = 3

8

8

STATE PROJECT NUMBER
1060-34-84

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CONCRETE COPING IS TO BE EPOXY COATED.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP." IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE LEVELING PAD. THE TOP OF LEVELING PAD IS ASSUMED TO BE 1'-6" BELOW FINISHED GRADE. ALL AREAS CONSTRUCTED OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

THE QUANTITY OF CONCRETE MASONRY & REINFORCING STEEL, FOR THE CAST-IN-PLACE COPING, IS PAID FOR UNDER THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP."

THE UPPER LIMITS OF EXCAVATION FOR "EXCAVATION FOR STRUCTURES RETAINING WALL R-40-578" SHALL BE THE EXISTING GROUND LINE.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF WALL R-40-578 WITH THE CONSTRUCTION OF THE WEST ABUTMENT OF BRIDGE B-40-880.

OVER EXCAVATE 6" BELOW THE LEVELING PAD AND REINFORCEMENT ZONE ALONG THE LENGTH OF WALL TO REMOVE ANY UNSUITABLE MATERIAL. BACKFILL REMOVAL AREAS WITH GRANULAR BACKFILL. WORK SHALL BE INCIDENTAL TO THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP". ⚠1

THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP".

EXPANSION/CONTRACTION JOINT CALLOUTS ARE FOR INFORMATIONAL USE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF EXPANSION/CONTRACTION JOINTS. SEE "COPING DETAILS" SHEET FOR DETAILS.

THE QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 7½". FOR PANEL THICKNESSES DIFFERENT THAN 7½ INCHES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE LEVELING PAD UNDER THE MSE PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP".

ALL OF THE RETAINING WALL'S STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL PANELS.

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 PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP."

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30 DEGREES WITHOUT CERTIFIED TEST VALUES.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NAVD 88 DATUM.

EXISTING STRUCTURE B-40-284 IS NOT SHOWN IN THESE PLANS. THE REMOVAL OF THIS STRUCTURE IS INCLUDED IN A LUMP SUM PAY ITEM AS PART OF THE B-40-880 BRIDGE QUANTITIES.

THESE PLANS ARE FOR A PRECAST CONCRETE PANEL MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL.

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE UNREINFORCED CONCRETE LEVELING PAD, MSE PRECAST WALL PANELS, MSE BACKFILL AND REINFORCING STRIPS IS INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP".

PROVIDE A SACK RUBBED FINISH IN ACCORDANCE TO STANDARD SPECIFICATION 502.3.7.5 AND AS MODIFIED HERE ON ALL EXPOSED CONCRETE SURFACES WHERE CONCRETE STAINING WILL BE APPLIED IN A FUTURE CONTRACT. THE MORTAR SHALL CONTAIN ONE OF THE FOLLOWING ACRYLIC BONDING ADMIXTURES MIXED AND APPLIED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS; TK-225 BY TK PRODUCTS, ACHRO 60 BY THORO PRODUCTS, OR ACHRO SET BY MASTER BUILDERS. THIS WORK IS INCIDENTAL TO THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABALIZED EARTH LRFD/OMP".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

UTILITIES LABELED PROPOSED MAY BE INSTALLED PRIOR TO CONSTRUCTION.

ONLY WALL CONCRETE PANEL MSE WALL SYSTEMS THAT USE STRIP TYPE SOIL REINFORCEMENT THAT ARE HINGED AT THE PANEL CONNECTION CAN BE USED FOR THE PROJECT. ⚠1

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS						
WALL HEIGHT (FEET)[1]	23.5	15.2	23.4	18.8	11.5	5.8
EXPOSED WALL HEIGHT (FEET)	22.0	13.7	21.9	17.3	10.0	4.3
LENGTH OF REINFORCEMENT (FEET)[3]	16.4	16.0	16.4	13.2	8.0	8.0
LENGTH OF REINF. / WALL HEIGHT	0.70	1.05	0.70	0.70	0.70	NA
WALL STATION (WS)	10+62.8	11+00.0	11+38.2	12+31.6	14+00.0	16+00.0
BORING USED	B-2	B-2	B-3	B-3	B-4	B-5
CAPACITY TO DEMAND RATIO (CDR)[4]						
SLIDING ($CDR_{REQ'D}$ > 1.0)	1.4	1.0	1.4	1.4	1.3	1.9
ECCENTRICITY ($CDR_{REQ'D}$ > 1.0)	1.3	1.2	1.3	1.3	1.2	4.5
GLOBAL STABILITY ($CDR_{REQ'D}$ > 1.0)	NA	2.1	NA	NA	NA	NA
BEARING RESISTANCE ($CDR_{REQ'D}$ > 1.0)	1.1	1.1	1.1	1.3	2.0	4.3
REQUIRED BEARING RESISTANCE (PSF)	6,000	6,000	6,000	6,000	6,000	6,000

1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD THAT WAS EQUAL TO THE WEIGHT OF THE SOIL BEHIND THE ABUTMENT.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH AT THAT LOCATION.
4. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CH. 14 OF THE BRIDGE MANUAL.
5. NA NOT APPLICABLE. GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

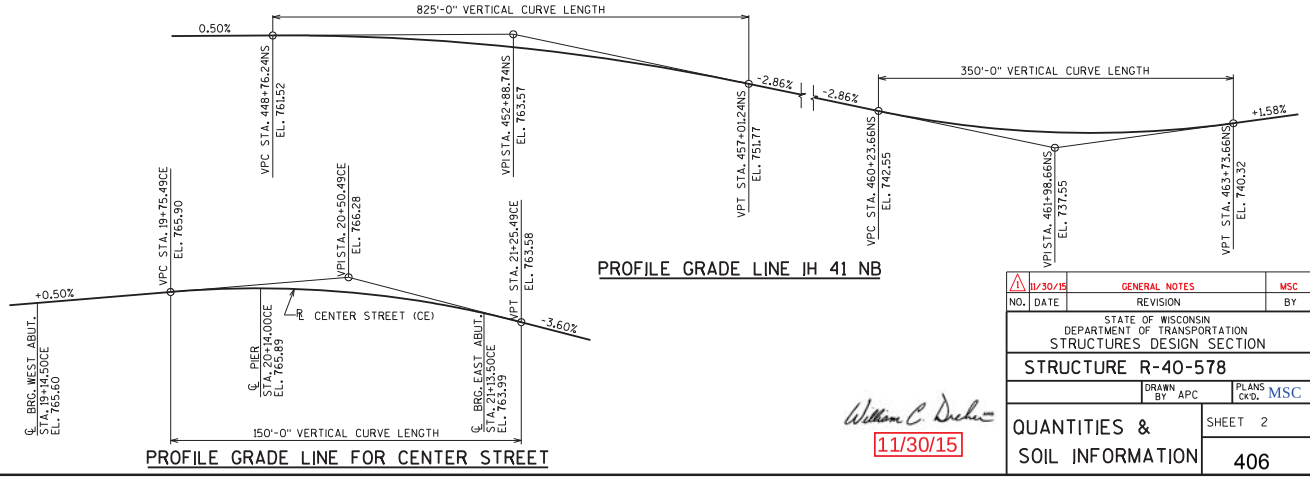
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	QUANTITY	UNIT
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALL R-40-578	1	LS
513.2001	RAILING PIPE R-40-578	634	LF
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	12	SY
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	735	LF
SPV.0165.4005	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP	8,090	SF
	NON-BID ITEMS		
	EXPANDED POLYSTYRENE	1"	SIZE
	PREFORMED JOINT FILLER	¾"	SIZE
	NON-BITUMINOUS JOINT SEALER		
	NAME PLATE		

ALL ITEMS ARE CATEGORY 3100

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GANULAR BACKFILL WITHIN THE WALL IN THE REINFORCING ZONE	30	0	120
FILL BEHIND AND BELOW THE REINFORCING ZONE	31	0	120
B-2, 11+00			
CLAY, GRAY, TRACE GRAVEL (ELEVATION 740.8FT - 732.5FT)	0	2,500	125
SAND, GRAY, SOME SILT (ELEVATION 732.5FT - 730.5FT)	36	0	130
SAND, GRAY, SOME SILT (ELEVATION 730.5FT - 728.5FT)	30	0	115
CLAY, GRAY, TRACE SAND, TRACE GRAVEL (ELEVATION 728.5FT - 717.5FT)	0	2,500	125
CLAY, GRAY, TRACE SAND, TRACE GRAVEL (ELEVATION 717.5FT - 711.0FT)	0	2,000	120
SILT, GRAY, TRACE SAND (ELEVATION 711.0FT - 702.5FT)	33	0	125
CLAY, GRAY (ELEVATION 702.5FT - 692.5FT)	0	3,000	125
CLAY AND GRAVEL, GRAY, SOME SILT (ELEVATION 692.5FT AND BELOW)	0	25,000	135
B-3, 12+00			
CLAY, GRAY, TRACE GRAVEL (ELEVATION 740.7FT - 730.4FT)	0	2,500	125
SAND, GRAY, FINE, LITTLE SILT (ELEVATION 730.4FT - 726.4FT)	36	0	130
SAND, GRAY, FINE, LITTLE SILT (ELEVATION 726.4FT - 722.4FT)	30	0	115
SILT, GRAY, LITTLE SAND, TRACE CLAY (ELEVATION 722.4FT - 719.4FT)	0	2,500	125
B-4, 14+00			
SAND, BROWN, FINE TO MEDIUM (ELEVATION 745.0FT - 736.4FT)	32	0	120
CLAY, GRAY, LITTLE SILT, TRACE SAND (ELEVATION 736.4FT -730.4FT)	0	3,500	130
SILT, GRAY, SOME SAND (ELEVATION 730.4FT - 724.4FT)	33	0	125
SAND, GRAY, SOME SILT (ELEVATION 724.4FT - 717.4FT)	36	0	135
B-5, 16+00			
CLAY, BROWN, LITTLE SILT, TRACE SAND AND GRAVEL (ELEVATION 749.7FT - 747.2FT)	0	3,000	130
SILT, GRAY, SOME SAND (ELEVATION 747.2FT - 740.7FT)	34	0	130
SILT, GRAY, SOME SAND (ELEVATION 740.7FT - 735.7FT)	36	0	135



William C. Dreher
11/30/15

NO.	DATE	REVISION	BY
⚠1	11/30/15	GENERAL NOTES	MSC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-40-578

DRAWN BY APC | PLANS CK'D. MSC

QUANTITIES & SOIL INFORMATION

SHEET 2

406

SCALE = 3

Addendum No. 01
ID 1060-34-84 &
ID 1060-35-85
Revised Sheet 406
November 30, 2015

8

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SCHEDULE OF ITEMS REVISED:

CONTRACT:	PROJECT(S):	FEDERAL ID(S):
20151208010	1060-34-84	N/A
	1060-35-85	N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	SECTION 0001 ROADWAY ITEMS					
0010	108.4400 CPM Progress Schedule 0001. 1060-34-84	1.000 EACH		.		.
0020	201.0105 Clearing	27.000 STA		.		.
0030	201.0120 Clearing	681.000 ID		.		.
0040	201.0205 Grubbing	26.000 STA		.		.
0050	201.0220 Grubbing	681.000 ID		.		.
0060	203.0200 Removing Old Structure (station) 0001. 20+14	LUMP	LUMP			.
0070	203.0210.S Abatement of Asbestos Containing Material (structure) 0001. B-40-284	LUMP	LUMP			.
0080	204.0100 Removing Pavement	8,216.000 SY		.		.
0090	204.0120 Removing Asphaltic Surface Milling	476.000 SY		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0100	204.0130 Removing Curb	852.000 LF		.		.
0110	204.0150 Removing Curb & Gutter	2,025.000 LF		.		.
0120	204.0155 Removing Concrete Sidewalk	1,347.000 SY		.		.
0130	204.0157 Removing Concrete Barrier	400.000 LF		.		.
0140	204.0165 Removing Guardrail	170.000 LF		.		.
0150	204.0170 Removing Fence	1,767.000 LF		.		.
0160	204.0195 Removing Concrete Bases	3.000 EACH		.		.
0170	204.0210 Removing Manholes	2.000 EACH		.		.
0180	204.0220 Removing Inlets	8.000 EACH		.		.
0190	204.0245 Removing Storm Sewer (size) 0001. (12-INCH)	51.000 LF		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0200	204.0245 Removing Storm Sewer (size) 0002. (15-INCH)	93.000 LF		.		.
0210	204.0245 Removing Storm Sewer (size) 0003. (18-INCH)	108.000 LF		.		.
0220	204.0280 Sealing Pipes	9.000 EACH		.		.
0230	204.9105.S Removing (item description) 0001. CRASH CUSHION	LUMP	LUMP			.
0240	205.0100 Excavation Common **P**	20,425.000 CY		.		.
0250	206.1000 Excavation for Structures Bridges (structure) 0001. B-40-880	LUMP	LUMP			.
0260	206.3000 Excavation for Structures Retaining Walls (structure) 0001. R-40-577	LUMP	LUMP			.
0270	206.3000 Excavation for Structures Retaining Walls (structure) 0002. R-40-578	LUMP	LUMP			.
0280	210.0100 Backfill Structure	533.000 CY		.		.
0290	213.0100 Finishing Roadway (project) 0001. 1060-34-84	1.000 EACH		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0300	213.0100 Finishing Roadway (project) 0002. 1060-35-85	1.000 EACH		.		.
0310	305.0120 Base Aggregate Dense 1 1/4-Inch	9,036.000 TON		.		.
0320	312.0110 Select Crushed Material	4,621.000 TON		.		.
0330	415.0070 Concrete Pavement 7-Inch	363.000 SY		.		.
0340	415.0090 Concrete Pavement 9-Inch	141.000 SY		.		.
0350	416.0270 Concrete Driveway HES 7-Inch	1,742.000 SY		.		.
0360	416.0610 Drilled Tie Bars	276.000 EACH		.		.
0370	455.0105 Asphaltic Material PG58-28	134.000 TON		.		.
0380	455.0120 Asphaltic Material PG64-28	10.000 TON		.		.
0390	455.0140 Asphaltic Material PG64-28P	3.000 TON		.		.
0400	455.0605 Tack Coat	500.000 GAL		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0410	460.1101 HMA Pavement Type E-1	2,431.000 TON		.		.
0420	460.1110 HMA Pavement Type E-10	211.000 TON		.		.
0430	460.2000 Incentive Density HMA Pavement	1,700.000 DOL	1.00000		1700.00	
0440	465.0105 Asphaltic Surface	207.000 TON		.		.
0450	465.0120 Asphaltic Surface Driveways and Field Entrances	10.000 TON		.		.
0460	502.0100 Concrete Masonry Bridges **P**	236.000 CY		.		.
0470	502.3200 Protective Surface Treatment **P**	1,657.000 SY		.		.
0480	502.3210 Pigmented Surface Sealer **P**	43.000 SY		.		.
0490	503.0137 Prestressed Girder Type I 36W-Inch **P**	2,397.000 LF		.		.
0500	505.0400 Bar Steel Reinforcement HS Structures	11,320.000 LB		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0510	505.0600 Bar Steel Reinforcement HS Coated Structures	157,360.000 LB		.		.
0520	506.2605 Bearing Pads Elastomeric Non-Laminated	48.000 EACH		.		.
0530	506.4000 Steel Diaphragms (structure) 0001. B-40-880	44.000 EACH		.		.
0540	511.1200 Temporary Shoring (structure) 0001. B-40-880	1,665.000 SF		.		.
0550	511.1300 Temporary Shoring (location) 8001. 455NS+12 TO 463NS+36	23,311.000 SF		.		.
0560	511.1300 Temporary Shoring (location) 8002. 461NS+45 TO 461NS+76	272.000 SF		.		.
0570	513.2001 Railing Pipe (structure) 0001. R-40-577	465.000 LF		.		.
0580	513.2001 Railing Pipe (structure) 0002. R-40-578	634.000 LF		.		.
0590	516.0500 Rubberized Membrane Waterproofing	53.000 SY		.		.
0600	520.8000 Concrete Collars for Pipe	6.000 EACH		.		.
0610	550.0500 Pile Points	44.000 EACH		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS		UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0620	550.1100 Piling Steel HP 10-Inch X 42 Lb	1,250.000	LF		.		.
0630	550.1120 Piling Steel HP 12-Inch X 53 Lb	960.000	LF		.		.
0640	601.0205 Concrete Gutter 24-Inch	208.000	LF		.		.
0650	601.0319 Concrete Curb & Gutter 19-Inch	1,533.000	LF		.		.
0660	601.0331 Concrete Curb & Gutter 31-Inch	3,487.000	LF		.		.
0670	601.0407 Concrete Curb & Gutter 18-Inch Type D	133.000	LF		.		.
0680	601.0409 Concrete Curb & Gutter 30-Inch Type A	16.000	LF		.		.
0690	601.0411 Concrete Curb & Gutter 30-Inch Type D	131.000	LF		.		.
0700	602.0410 Concrete Sidewalk 5-Inch	29,363.000	SF		.		.
0710	602.0505 Curb Ramp Detectable Warning Field Yellow	539.000	SF		.		.
0720	602.1500 Concrete Steps	52.000	SF		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0730	602.2400 Concrete Safety Islands	346.000 SF		.		.
0740	603.8000 Concrete Barrier Temporary Precast Delivered	6,666.000 LF		.		.
0750	603.8125 Concrete Barrier Temporary Precast Installed	9,167.000 LF		.		.
0760	604.0400 Slope Paving Concrete	57.000 SY		.		.
0770	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	197.000 LF		.		.
0780	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	136.000 LF		.		.
0790	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	184.000 LF		.		.
0800	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	769.000 LF		.		.
0810	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	30.000 LF		.		.
0820	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	193.000 LF		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0830	610.0148 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 48x76-Inch	406.000 LF		.		.
0850	611.0535 Manhole Covers Type J-Special	2.000 EACH		.		.
0860	611.0624 Inlet Covers Type H	8.000 EACH		.		.
0870	611.0642 Inlet Covers Type MS	3.000 EACH		.		.
0880	611.0654 Inlet Covers Type V	2.000 EACH		.		.
0890	611.0663 Inlet Covers Type X	2.000 EACH		.		.
0900	611.2004 Manholes 4-FT Diameter	1.000 EACH		.		.
0910	611.2005 Manholes 5-FT Diameter	4.000 EACH		.		.
0920	611.2006 Manholes 6-FT Diameter	2.000 EACH		.		.
0930	611.2008 Manholes 8-FT Diameter	1.000 EACH		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0940	611.3003 Inlets 3-FT Diameter	2.000 EACH		.		.
0950	611.3004 Inlets 4-FT Diameter	19.000 EACH		.		.
0960	611.3230 Inlets 2x3-FT	1.000 EACH		.		.
0970	611.3901 Inlets Median 1 Grate	3.000 EACH		.		.
0980	611.3902 Inlets Median 2 Grate	3.000 EACH		.		.
0990	611.8110 Adjusting Manhole Covers	3.000 EACH		.		.
1000	611.8115 Adjusting Inlet Covers	7.000 EACH		.		.
1010	612.0406 Pipe Underdrain Wrapped 6-Inch	1,310.000 LF		.		.
1020	614.0805 Crash Cushions Permanent Low Maintenance	1.000 EACH		.		.
1030	614.0905 Crash Cushions Temporary	5.000 EACH		.		.
1040	616.0206 Fence Chain Link 6-FT	1,641.000 LF		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1060	616.0406 Fence Chain Link Salvaged 6-FT	400.000 LF		.		.
1070	616.0700.S Fence Safety	300.000 LF		.		.
1080	619.1000 Mobilization	1.000 EACH		.		.
1090	620.0300 Concrete Median Sloped Nose	25.000 SF		.		.
1100	623.0200 Dust Control Surface Treatment	12,840.000 SY		.		.
1110	624.0100 Water	192.000 MGAL		.		.
1120	628.1504 Silt Fence	361.000 LF		.		.
1130	628.1520 Silt Fence Maintenance	361.000 LF		.		.
1140	628.1905 Mobilizations Erosion Control	7.000 EACH		.		.
1150	628.1910 Mobilizations Emergency Erosion Control	4.000 EACH		.		.
1160	628.2004 Erosion Mat Class I Type B	17,111.000 SY		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1170	628.2008 Erosion Mat Urban Class I Type B	1,389.000 SY		.		.
1180	628.6505 Soil Stabilizer Type A	1.000 ACRE		.		.
1190	628.7005 Inlet Protection Type A	20.000 EACH		.		.
1200	628.7015 Inlet Protection Type C	21.000 EACH		.		.
1210	628.7020 Inlet Protection Type D	89.000 EACH		.		.
1220	628.7560 Tracking Pads	7.000 EACH		.		.
1230	629.0205 Fertilizer Type A	3.700 CWT		.		.
1240	629.0210 Fertilizer Type B	3.300 CWT		.		.
1250	630.0130 Seeding Mixture No. 30	333.000 LB		.		.
1260	630.0140 Seeding Mixture No. 40	186.000 LB		.		.
1270	630.0200 Seeding Temporary	777.000 LB		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1280	631.0300 Sod Water	187.000 MGAL		.		.
1290	631.1000 Sod Lawn	10,430.000 SY		.		.
1300	632.0101 Trees (species) (size) (root) 0001. GINKGO - MALE ONLY 2 1/2 INCH CAL B&B	5.000 EACH		.		.
1310	632.0101 Trees (species) (size) (root) 0002. LONDON PLANE 2 1/2 INCH CAL B&B	5.000 EACH		.		.
1320	632.0101 Trees (species) (size) (root) 0003. TURKISH FILBERT 2 1/2 INCH CAL B&B	5.000 EACH		.		.
1330	632.9101 Landscape Planting Surveillance and Care Cycles	20.000 EACH		.		.
1340	634.0618 Posts Wood 4x6-Inch X 18-FT	6.000 EACH		.		.
1350	634.0622 Posts Wood 4x6-Inch X 22-FT	12.000 EACH		.		.
1360	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	59.000 EACH		.		.
1370	635.0200 Sign Supports Structural Steel HS	2,600.000 LB		.		.

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PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1380	636.0100 Sign Supports Concrete Masonry	4.400 CY		.		.
1390	636.0500 Sign Supports Steel Reinforcement	264.000 LB		.		.
1400	637.2210 Signs Type II Reflective H	337.530 SF		.		.
1410	637.2230 Signs Type II Reflective F	158.750 SF		.		.
1420	638.2101 Moving Signs Type I	6.000 EACH		.		.
1430	638.2102 Moving Signs Type II	22.000 EACH		.		.
1440	638.2602 Removing Signs Type II	67.000 EACH		.		.
1450	638.3000 Removing Small Sign Supports	67.000 EACH		.		.
1460	643.0100 Traffic Control (project) 0002. 1060-35-85	1.000 EACH		.		.
1470	643.0200 Traffic Control Surveillance and Maintenance (project) 0001. 1060-34-84	200.000 DAY		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1480	643.0300 Traffic Control Drums	18,447.000 DAY		.		.
1490	643.0420 Traffic Control Barricades Type III	7,354.000 DAY		.		.
1500	643.0705 Traffic Control Warning Lights Type A	14,708.000 DAY		.		.
1510	643.0715 Traffic Control Warning Lights Type C	5,063.000 DAY		.		.
1520	643.0800 Traffic Control Arrow Boards	63.000 DAY		.		.
1530	643.0900 Traffic Control Signs	24,256.000 DAY		.		.
1540	643.0920 Traffic Control Covering Signs Type II	72.000 EACH		.		.
1550	643.1050 Traffic Control Signs PCMS	516.000 DAY		.		.
1560	643.1055.S Truck or Trailer Mounted Attenuator	60.000 DAY		.		.
1570	643.2000 Traffic Control Detour (project) 0001. 1060-34-84	1.000 EACH		.		.
1580	643.3000 Traffic Control Detour Signs	23,356.000 DAY		.		.

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PROJECT(S): 1060-34-84, 1060-35-85
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CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1590	644.1410.S Temporary Pedestrian Surface Asphalt	296.000 SF		.		.
1600	644.1616.S Temporary Pedestrian Safety Fence	224.000 LF		.		.
1610	646.0106 Pavement Marking Epoxy 4-Inch	30,950.000 LF		.		.
1620	646.0600 Removing Pavement Markings	28,025.000 LF		.		.
1630	646.0881.S Pavement Marking Grooved Wet Reflective Tape 4-Inch	200.000 LF		.		.
1640	646.0883.S Pavement Marking Grooved Wet Reflective Tape 8-Inch	567.000 LF		.		.
1650	647.0166 Pavement Marking Arrows Epoxy Type 2	1.000 EACH		.		.
1660	647.0196 Pavement Marking Arrows Epoxy Type 5	6.000 EACH		.		.
1670	647.0456 Pavement Marking Curb Epoxy	30.000 LF		.		.
1680	647.0566 Pavement Marking Stop Line Epoxy 18-Inch	110.000 LF		.		.

CONTRACT: 20151208010
PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1690	647.0606 Pavement Marking Island Nose Epoxy	7.000 EACH		.		.
1700	647.0656 Pavement Marking Parking Stall Epoxy	2,300.000 LF		.		.
1710	647.0796 Pavement Marking Crosswalk Epoxy 24-Inch	512.000 LF		.		.
1720	649.0400 Temporary Pavement Marking Removable Tape 4-Inch	2,193.000 LF		.		.
1730	649.2100 Temporary Raised Pavement Markers	144.000 EACH		.		.
1740	652.0125 Conduit Rigid Metallic 2-Inch	24.000 LF		.		.
1750	652.0210 Conduit Rigid Nonmetallic Schedule 40 1-Inch	60.000 LF		.		.
1760	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	936.000 LF		.		.
1770	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	330.000 LF		.		.
1780	652.0615 Conduit Special 3-Inch	275.000 LF		.		.
1790	652.0700.S Install Conduit into Existing Item	1.000 EACH		.		.

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PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1800	653.0140 Pull Boxes Steel 24x42-Inch	2.000 EACH		.		.
1810	653.0222 Junction Boxes 18x12x6-Inch	4.000 EACH		.		.
1820	653.0905 Removing Pull Boxes	2.000 EACH		.		.
1830	654.0105 Concrete Bases Type 5	20.000 EACH		.		.
1840	655.0510 Electrical Wire Traffic Signals 12 AWG	410.000 LF		.		.
1850	655.0610 Electrical Wire Lighting 12 AWG	3,070.000 LF		.		.
1860	655.0620 Electrical Wire Lighting 8 AWG	3,906.000 LF		.		.
1870	655.0625 Electrical Wire Lighting 6 AWG	210.000 LF		.		.
1880	655.0630 Electrical Wire Lighting 4 AWG	7,812.000 LF		.		.
1890	656.0200 Electrical Service Meter Breaker Pedestal (location) 2001. MB22CE	LUMP	LUMP			.

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PROJECT(S): 1060-34-84, 1060-35-85
FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1900	656.0500 Electrical Service Breaker Disconnect Box (location) 2001. CB-CCTV-40-0040	LUMP	LUMP			.
1910	657.0322 Poles Type 5-Aluminum	16.000 EACH	.			.
1920	657.0610 Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	26.000 EACH	.			.
1930	657.6005.S Anchor Assemblies Light Poles on Structures	4.000 EACH	.			.
1940	659.1115 Luminaires Utility LED A	7.000 EACH	.			.
1950	659.1125 Luminaires Utility LED C	20.000 EACH	.			.
1960	659.1210 Luminaires Underdeck LED B	2.000 EACH	.			.
1970	670.0100 Field System Integrator 2001. FTMS	LUMP	LUMP			.
1980	670.0200 ITS Documentation 2001. FTMS	LUMP	LUMP			.
1990	671.0132 Conduit HDPE 3-Duct 2-Inch	330.000 LF	.			.

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PROJECT(S): 1060-34-84, 1060-35-85
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CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2000	672.0280 Base Camera Pole 80-FT	1.000 EACH		.		.
2010	673.0105 Communication Vault Type 1	2.000 EACH		.		.
2020	673.0225.S Install Pole Mounted Cabinet	1.000 EACH		.		.
2030	675.0300 Install Mounted Controller Microwave Detector Assembly	2.000 EACH		.		.
2040	675.0400.S Install Ethernet Switch	1.000 EACH		.		.
2050	677.0100 Install Camera Pole	1.000 EACH		.		.
2060	677.0200 Install Camera Assembly	1.000 EACH		.		.
2070	678.0500 Communication System Testing 2001. FTMS	LUMP	LUMP			.
2080	690.0150 Sawing Asphalt	1,225.000 LF		.		.
2090	690.0250 Sawing Concrete	1,949.000 LF		.		.
2100	715.0415 Incentive Strength Concrete Pavement	500.000 DOL	1.00000		500.00	

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FEDERAL ID(S): N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2110	715.0502 Incentive Strength Concrete Structures	1,416.000 DOL	1.00000		1416.00	
2120	SPV.0035 Special 0001. EBS EXCAVATION	400.000 CY	.		.	
2130	SPV.0035 Special 0002. EBS BACKFILL	400.000 CY	.		.	
2140	SPV.0035 Special 4000. HPC MASONARY STRUCTURES **P**	669.000 CY	.		.	
2150	SPV.0045 Special 0001. PORTABLE SPEED TRAILER	400.000 DAY	.		.	
2160	SPV.0060 Special 0001. CRASH CUSION TEMPORARY LEFT IN PLACE	1.000 EACH	.		.	
2170	SPV.0060 Special 0002. TRAFFIC CONTROL FULL FREEWAY CLOSURE	14.000 EACH	.		.	
2180	SPV.0060 Special 0003. TRAFFIC CONTROL CLOSE-OPEN FREEWAY ENTRANCE RAMP	160.000 EACH	.		.	
2190	SPV.0060 Special 0004. TRAFFIC CONTROL INTERIM FREEWAY LANE CLOSURE	40.000 EACH	.		.	
2200	SPV.0060 Special 0005. TRAFFIC CONTROL INTERIM FREEWAY TWO LANE CLOSURE	120.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2210	SPV.0060 Special 0006. TRAFFIC CONTROL LOCAL ROAD LANE CLOSURES	21.000 EACH		.		.
2220	SPV.0060 Special 1001. REMOVING LIGHTING UNITS	26.000 EACH		.		.
2230	SPV.0060 Special 1002. REMOVING LUMINAIRES UNDERDECK	2.000 EACH		.		.
2240	SPV.0060 Special 1003. REMOVING UNDERDECK LIGHTING	1.000 EACH		.		.
2250	SPV.0060 Special 1004. LAMP DISPOSAL HID	30.000 EACH		.		.
2260	SPV.0060 Special 1005. LIGHTING PULL BOXES WAUWATOSA	8.000 EACH		.		.
2270	SPV.0060 Special 1006. CONCRETE BASES TYPE 5 SPECIAL	2.000 EACH		.		.
2280	SPV.0060 Special 1007. POLES TYPE 5 ALUMINUM 25-FT	9.000 EACH		.		.
2290	SPV.0060 Special 2012. INSTALL 5.8 GHZ ETHERNET BRIDGE	1.000 EACH		.		.
2300	SPV.0060 Special 2013. GROUND ROD	1.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2310	SPV.0060 Special 4001. PILE DYNAMIC ANALYZER (PDA) TESTING	6.000 EACH		.		.
2320	SPV.0060 Special 4002. PILE DYN AMIC ANALYZER (PDA) RESTRIKES	6.000 EACH		.		.
2330	SPV.0060 Special 4003. CASE PILE WAVE ANALY. PROGRAM (CAP WAP) EVALUATION	3.000 EACH		.		.
2340	SPV.0060 Special 5010. SANITARY MANHOLE TYPE A	1.000 EACH		.		.
2350	SPV.0060 Special 5020. SANITARY MANHOLE TYPE D	1.000 EACH		.		.
2360	SPV.0060 Special 5030. REMOVING SANITARY MANHOLE WAUWTOSA	1.000 EACH		.		.
2370	SPV.0060 Special 5040. WATER MAIN VERTICAL OFFSET	1.000 EACH		.		.
2380	SPV.0060 Special 5050. ADJUSTING WATER VALVES	14.000 EACH		.		.
2390	SPV.0060 Special 5060. ADJUSTING WATER MANHOLE	3.000 EACH		.		.
2400	SPV.0060 Special 5070. ABANDONING WATER MANHOLE	2.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2410	SPV.0060 Special 5080. ADJUSTING SANITARY MANHOLE	1.000 EACH		.		.
2420	SPV.0060 Special 5090. RECONSTRUCT SANITARY MANHOLE	2.000 EACH		.		.
2430	SPV.0060 Special 5100. ABANDON WATER SERVICE	3.000 EACH		.		.
2440	SPV.0060 Special 5110. ABANDON SANITARY SEWER SERVICE	3.000 EACH		.		.
2450	SPV.0060 Special 5120. HYDRANT ASSEMBLY RELOCATION	2.000 EACH		.		.
2460	SPV.0060 Special 8005. COVER PLATES LEFT IN PLACE	22.000 EACH		.		.
2470	SPV.0060 Special 8006. INLET COVERS TYPE R-SPECIAL	2.000 EACH		.		.
2480	SPV.0060 Special 8012. MANHOLES 9-FT SPECIAL	4.000 EACH		.		.
2490	SPV.0060 Special 8015. PIPE CONNECTION TO EXISTING STRUCTURE	1.000 EACH		.		.
2500	SPV.0090 Special 0001. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH WHITE	55.000 LF		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2510	SPV.0090 Special 0002. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH WHITE	766.000 LF		.		.
2520	SPV.0090 Special 0003. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE 4-INCH YELLOW	2,040.000 LF		.		.
2530	SPV.0090 Special 0004. CONCRETE BARRIER TEMPORARY PRECAST DELIVERED SPECIAL	2,263.000 LF		.		.
2540	SPV.0090 Special 0005. MAINTAIN CONCRETE BARRIER TEMPORARY PRECAST	1,813.000 LF		.		.
2550	SPV.0090 Special 0006. GALVANIZED PIPE RAILING	36.000 LF		.		.
2560	SPV.0090 Special 0007. PIPE UNDERDRAIN 6-INCH SPECIAL	1,285.000 LF		.		.
2570	SPV.0090 Special 0008. FENCE TEMPORARY 6-FT	1,500.000 LF		.		.
2580	SPV.0090 Special 1001. POLYETHYLENE DUCT 1 1/4-INCH	3,540.000 LF		.		.
2590	SPV.0090 Special 4004. FENCE DECORATIVE BRIDGE B-40-880	402.000 LF		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2600	SPV.0090 Special 5010. SANITARY SEWER 12-INCH PVC	276.000 LF		.		.
2610	SPV.0090 Special 5020. ABANDONING SANITARY SEWER 12-INCH	90.000 LF		.		.
2620	SPV.0090 Special 5030. REMOVING SANITARY SEWER PIPE	183.000 LF		.		.
2630	SPV.0090 Special 8010. SS PIPE RF CONC HORIZ ELLIP 48X76"	400.000 LF		.		.
2640	SPV.0105 Special 0001. SURVEY PROJECT 1060-34-84	LUMP	LUMP			.
2650	SPV.0105 Special 0002. SURVEY PROJECT 1060-35-85	LUMP	LUMP			.
2660	SPV.0105 Special 0003. PAVEMENT CLEANUP PROJECT 1060-34-84	LUMP	LUMP			.
2670	SPV.0105 Special 0004. PAVEMENT CLEANUP PROJECT 1060-35-85	LUMP	LUMP			.
2680	SPV.0105 Special 0005. CONTROL OF WATER 1060-34-84	LUMP	LUMP			.
2690	SPV.0135 Special 0001. VIBRATION MONITORING	6.000 MON		.		.
2700	SPV.0165 Special 0001. MULCH SHREDDED BARK	150.000 SF		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2710	SPV.0165 Special 0002. SIDEWALK BRICK SALVAGED	48.000 SF		.		.
2720	SPV.0165 Special 4005. WALL CONC PANEL MSE LRFD/QMP **P**	15,760.000 SF		.		.
2730	SPV.0180 Special 0001. TOPSOIL SPECIAL	28,930.000 SY		.		.
2740	SPV.0195 Special 0001. COLD PATCH	10.000 TON		.		.
2750	616.0329 Gates Chain Link (width) 0002. 12-Ft	4.000 EACH		.		.
	SECTION 0001 TOTAL					.
	TOTAL BID					.