MENOMONEE RIVER PARKWAY
CONGRESS TO BURLEIGH

PARKWAY RECONSTRUCTION AND GREEN INFRASTRUCTURE

MILWAUKEE COUNTY PARKS

P280-13626

07/03/2014

MILWAUKEE COUNTY DEPARTMENT OF
Administrative Services
Architecture, Engineering &
Environmental Services Section

CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

LEGEND:

- EXISTING CATCH BASIN OR INLET
- EXISTING LIGHT POLE
- EXISTING GAS METER
- EXISTING TELEPHONE BOX
- EXISTING TRANSFORMER
- EXISTING MANHOLE
- X — EXISTING FENCE
- W — EXISTING UNDERGROUND WATER LINE
- E — EXISTING UNDERGROUND ELECTRIC LINE
- L — EXISTING UNDERGROUND LIGHTING
- SS — EXISTING STORM SEWER
- 700 — EXISTING CONTOURS
- EXISTING PAVEMENT
- EXISTING CURBFACE
- IRON PIPE (PROPERTY CORNER)
- PROPOSED CATCH BASIN
- SURVEY CONTROLE POINT
- PROPOSED LIGHT POLE
- SAN — PROPOSED SANITARY SEWER
- PROPOSED PAVEMENT
- PROPOSED CURBFACE
- 700 — PROPOSED CONTOURS
- L — PROPOSED UNDERGROUND LIGHTING
- SS — PROPOSED STORM SEWER
- xxxxxxxxxxx BUTT JOINT
- EXISTING TREE/BUSH LINE
- PROPOSED TREE/BUSH LINE
- EXISTING PROFILE
- PROPOSED PROFILE
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- PROPOSED DECIDUOUS TREE
- TREE TO BE REMOVED
- SOD AREA

ABBREVIATIONS:

ASP	ASPHALT
CABC	CRUSHED AGGREGATE BASE COURSE
CB	CATCH BASIN
C.I.	CAST IRON
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
COND	CONDUIT
DIA.	DIAMETER
E	ELECTRICAL
ELEV	ELEVATION
EXST	EXISTING
E	EASTING
F TO F	FACE TO FACE
FOC	FACE OF CURB
G	GAS
G.W.I.	GALVANIZED WROUGHT IRON
HOR	HORIZONTAL
HP	HIGH POINT
I.E.	INVERT ELEVATION
LT	LEFT
L	LIGHTING CABLE/CONDUIT
MAX	MAXIMUM
MIN	MINIMUM
MH	MANHOLE
N	NORTHING
PAVT	PAVEMENT
PKG	PARKING
PKWY	PARKWAY
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
R	RADIUS
RT	RIGHT
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
SAN	SANITARY SEWER
SS	STORM SEWER
ST	STREET
STA	STATION
T	TELEPHONE
TYP	TYPICAL
UD	UNDER DRAIN
VERT	VERTICAL
W	WATER
WEPCO	WI ELECTRICAL POWER CO
X	EXTRA

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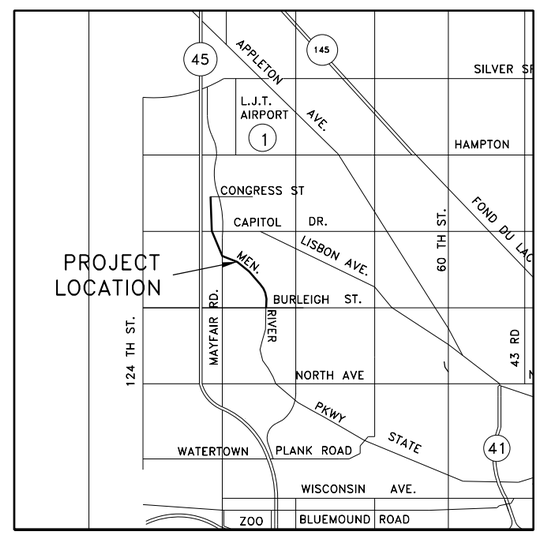

KEN SAIKI DESIGN
LANDSCAPE ARCHITECTS

gai consultants

PROJECT APPROVAL BY _____ DIRECTOR-DAS
DATE _____

RECOMMENDED FOR APPROVAL BY: _____
DATE _____

UNIT MANAGER REVIEW BY: _____
DATE _____

PROJECT MANAGER _____
DATE _____

BUILDING NO.

SITE NO.

PROJECT NO.
P280-13626

SHEET NO.
1
1 OF 110

FILE NO.

GENERAL NOTES

APPLICATION SPECIFICATIONS - STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, 2008 EDITION, WITH AMMENDMENTS TO DATE, AND STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.

ALL INFORMATION SHOWN ON EXISTING CONDITIONS IS BASED ON RECORDS AVAILABLE TO MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS AS OF AUGUST 2013, ALTHOUGH THE COUNTY IN NO WAY GUARANTEES THE INFORMATION AS BEING ENTIRELY ACCURATE IN THE EVENT PERSONS PERFORMING WORK FOR MILWAUKEE COUNTY SHOULD ENCOUNTER ERRORS OR OMISSIONS IN THESE DRAWINGS DURING CONSTRUCTION OF THIS PROJECT, IT SHALL BE THEIR RESPONSIBILITY TO INFORM THE COUNTY AS SOON AS POSSIBLE.

ALL RADII SHOWN ON THE PLAN WHERE THERE IS CONCRETE CURB & GUTTER ARE MEASURED TO THE BACK OF CURB.

CONCRETE CURB & GUTTER GRADES ARE TO THE TOP OF CURB, UNLESS OTHERWISE NOTED.

CURB AND GUTTER JOINT SPACING SHALL BE 10 FEET.

CONTRACTOR SHALL GRUB SHRUBS AND BUSHES WITHIN SLOPE LIMITS AS DIRECTED AND APPROVED BY THE ENGINEER.

MULTI-USE PATH WILL BE CONSTRUCTED TO MATCH EXISTING GRADE WHERE PATH IS LOCATED 15' BEYOND NEW BACK OF CURB UNLESS NOTED.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.

FERTILIZE, SEED AND MULCH ALL TOPSOILED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

REMOVAL OF EROSION CONTROL DEVICES WILL BE INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.

2% CROSS SLOPE UNLESS OTHERWISE NOTED.

ALL TRAFFIC CONTROL, SIGNS & DETOUR PLAN SHALL FOLLOW MUTCD GUIDELINES.

ALL CITY OF WAUWATOSA SANITARY MANHOLE ADJUSTMENTS SHALL REQUIRE NEW NEENAH R-1661-B FRAME WITH SELF SEALING LID & 1" VENT HOLE & PLUG. AND NEW CHIMNEY WITH INTERNAL SEAL.

ALL CITY & COUNTY STORM MANHOLE ADJUSTMENTS REQUIRE NEW CHIMNEY WITH NEENAH R-3222-1A FRAME & GRATE (COUNTY) OR NEENAH R-1661-B FRAME & GRATE (CITY)

THE CONTRACTOR SHALL BUILD RAIN GARDENS & BIO BASINS PER EACH SPECIFIED SEGMENT. TEMPORARY SEED WITH RYE SEED IF WEATHER DOES NOT ALLOW FOR PERMANENT SEEDING. COST INCIDENTAL TO OTHER ITEMS.

EXISTING CROSS-SECTIONS DETAIL EXISTING ASPHALT, CONCRETE & BASE TO BE REMOVED, SALVAGED/RECYCLED, STOCKPILED ON SITE & RE-USED AS BASE COURSE ON THE ROAD & PATH. THE CONTRACTOR WILL BE REQUIRED TO REMOVE & PROCESS THE EXISTING MATERIAL TO MEET SPECIFICATIONS & MAXIMIZE THE AMOUNT OF RECYCLED MATERIAL UTILIZED. POTENTIAL STOCK PILE LOCATIONS ARE SHOWN ON THE PLAN BUT CONTRACTOR WILL BE REUIRED TO SUBMIT FINAL STOCKPILE LOCATIONS WHICH COULD INCLUDE LOCATIONS ON THE ROADWAY. COMMON EXCAVATION WILL INCLUDE DEPTH BELOW THESE LOCATIONS.

SET CATCH BASIN CASTINGS 1/2-INCH BELOW FINISHED GRADE WITH SMOOTH TROWELED EDGES.

CURB FLARES FOR DEPRESSED CURB OPENINGS WHERE SHOWN ON PLAN SHALL BE AT A 6:1 SLOPE.

CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS.

SAWCUT LIMITS OF REMOVAL OF EXISTING PAVEMENT.

DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN SHALL CONFORM TO THE PERTINENT REQUIREMENTS AND APPLICABLE SPECIAL PROVISIONS. CONTRACTOR SHALL UNCOVER AND CHECK ELEVATION OF EXISTING UTILITIES WHERE CROSSED BY NEW STORM SEWER. ALTERATION OF UTILITY OR REVISION OF SEWER ELEVATION MAY BE NECESSARY.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS EBS. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT APPROXIMATE LOCATIONS. THE EXACT LOCATION AND DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

THE LOCATION OF EXISTING, ABANDONED AND PROPOSED UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL UTILITIES LOCATED BEFORE EXCAVATION.

EXISTING SIGNS AFFECTED BY CONSTRUCTION SHALL BE PROTECTED OR RELOCATED AS DIRECTED BY THE ENGINEER. CONTRACTOR TO SALVAGE EXISTING SIGNS AND INSTALL NEW SIGNS AS SHOWN. CLEARANCE TO THE BOTTOM OF SIGNS SHALL BE 7 FEET. WHEN TWO SIGNS ARE MOUNTED ON A SINGLE POST, THE BOTTOM OF SIGN SHALL BE 5 FEET MEASURED FROM THE BOTTOM OF THE SIGN. WHEN THREE SIGNS ARE MOUNTED ON A SINGLE POST, THE BOTTOM SIGN SHALL BE 4 FEET MEASURED FROM THE BOTTOM OF THE SIGN. MOUNT ALL NO PARKING SIGNS AT 45° ANGLE TO PARKWAY. SALVAGED SIGNS SHALL BE DELIVERED TO PARKS MAINTENANCE AT 1150 N. 68TH STREET.

ALL NEW CABLE & DUCT FOR LIGHTING SHALL BE INSTALLED 1' BACK OF CURB TO AVOID INSTALLATION BELOW RAIN GARDENS OR BIOFILTRATION BASINS.

WETLAND LINES ARE APPROXIMATE BASED UPON DNR SURFACE DATA VIEWER.

LARRY ANDERSON (MMSD), 414-225-2241, SHALL BE CONTACTED AT LEAST THREE BUSINESS DAYS PRIOR TO CONSTRUCTION ON OR IN THE VICINITY OF MMSD FACILITIES.

HORIZONTAL DATUM IS BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM GRID, SOUTH ZONE, (NAD 1927). ALL BEARINGS ARE REFERENCED TO GRID NORTH. COORDINATES SHOWN ON PLAN ARE GRID COORDINATES. COMBINATION SCALE AND SEA LEVEL REDUCTION FACTOR = 0.99991464. VERTICAL DATUM IS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

MENOMONEE RIVER PARKWAY
HMA PAVEMENT SHALL BE 4 INCH THICK CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS. HMA PAVEMENT, 2-1/4 INCH LOWER LAYER, TYPE E-1, NOMINAL 19.00 MM, AND ASPHALTIC MATERIAL WITH A PERFORMANCE GRADED DESIGNATION OF PG 58-28.
1-3/4 INCH UPPER LAYER, TYPE E-1, NOMINAL 9.50 MM, AND ASPHALTIC MATERIAL WITH A PERFORMANCE GRADED DESIGNATION OF PG 64-22.

BIKE PATH
HMA PAVEMENT SHALL BE 3 INCH THICK CONSTRUCTED WITH ONE LAYER HMA PAVEMENT, 3 INCH, TYPE E-0.3, NOMINAL 9.50 MM, AND ASPHALTIC MATERIAL WITH A PERFORMANCE GRADED DESIGNATION OF PG 64-22.

WHEN QUANTITY OF THE ITEMS OF LOWER OR UPPER LAYER OF ASPHALT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

TO OBTAIN LOCATION OF
PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU
DIG IN WISCONSIN

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

PARKS MAINTENANCE DIVISION

(414) 258-2322

THE CONTRACTOR MUST NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. PARKS MAINTENANCE WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST ALSO BE CONTACTED SEPARATELY AT LEAST 5 DAYS IN ADVANCE OF EXCAVATION.

MILWAUKEE COUNTY DEPARTMENT OF
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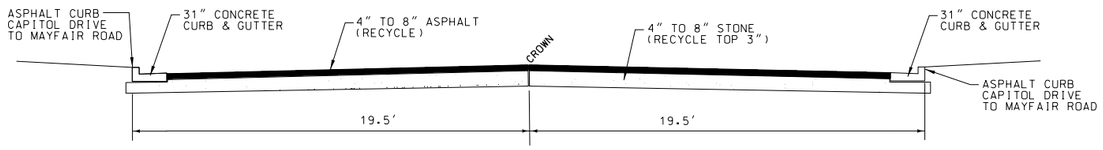
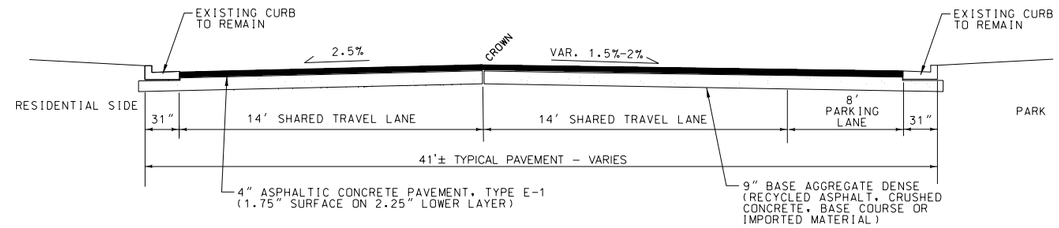
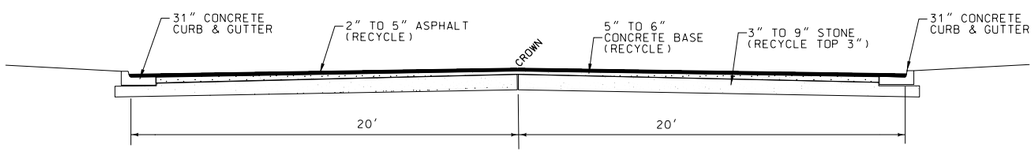
DRAWN BY:	BJG
CHECKED BY:	TH
SCALE:	NTS
DATE:	7/03/14
PROJECT TITLE:	MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION:	GENERAL NOTES
SITE NO.	
BUILDING NO.	
PROJECT NO.	P280-13626
SHEET NO.	2
	2 OF 110
FILE NO.	



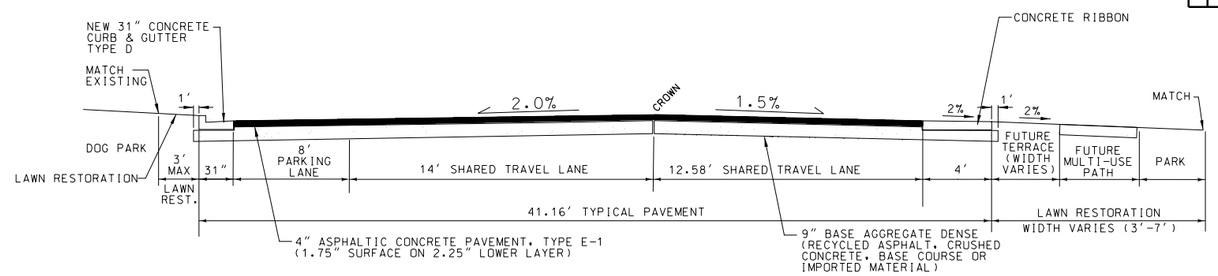
EXISTING TYPICAL SECTION
CONGRESS STREET TO MAYFAIR ROAD
STA 10+00 TO STA 57+32



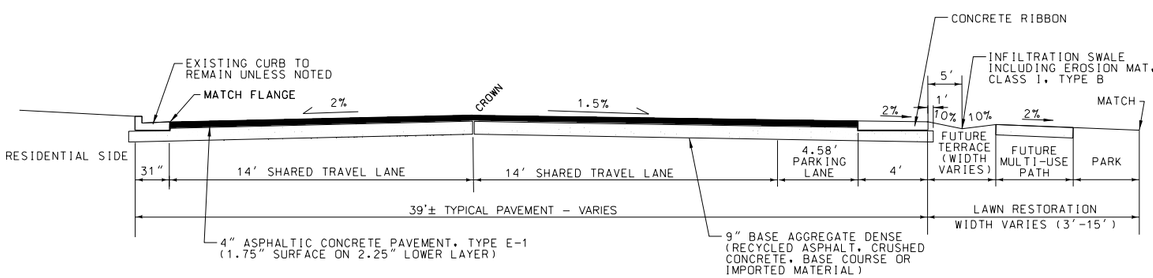
STATION 37+75 TO STATION 39+80



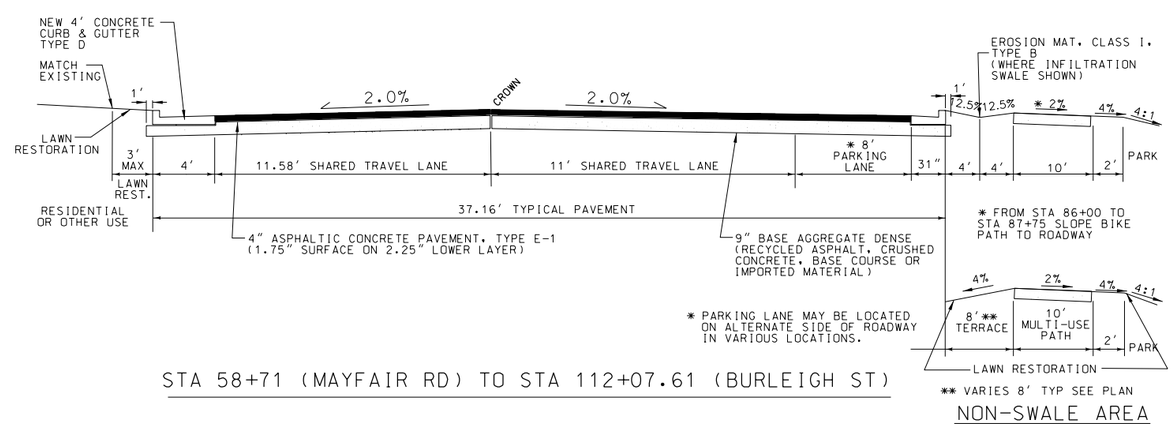
EXISTING TYPICAL SECTION
MAYFAIR ROAD TO BURLEIGH ROAD
STA 58+71 TO STA 112+07.61



STA 39+80 TO STA 57+32 (MAYFAIR ROAD)
* STA 39+80 TO 40+85 CROWN VARIES



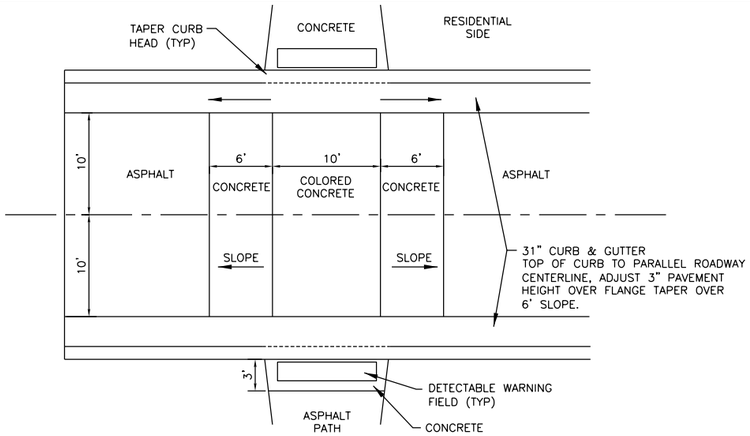
STA 10+00 (CONGRESS ST) TO STA 37+75



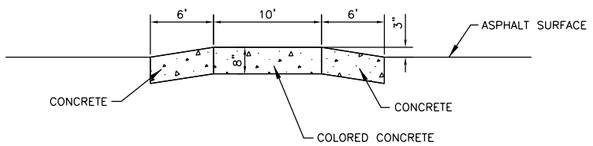
STA 58+71 (MAYFAIR RD) TO STA 112+07.61 (BURLEIGH ST)
NON-SWALE AREA

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

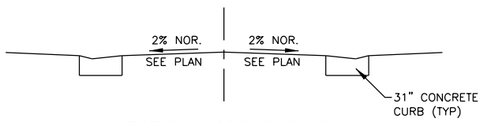
DRAWN BY: BJG	CHECKED BY: TH
SCALE: NTS	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: TYPICAL SECTIONS
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 3	3 OF 110
	FILE NO.



PLAN VIEW

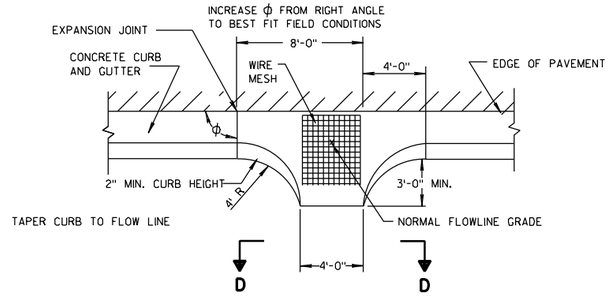


SECTION ALONG ROAD

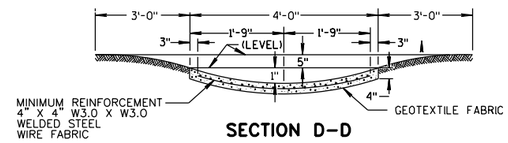


SECTION ACROSS ROAD

8" CONCRETE RAISED PEDESTRIAN CROSSING

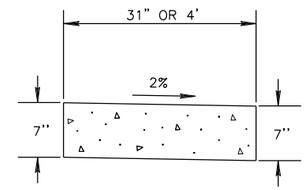


PLAN VIEW

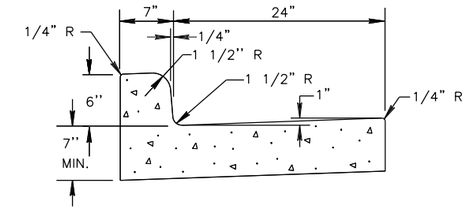


SECTION D-D

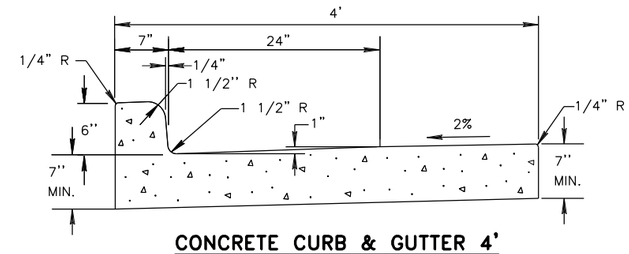
CONCRETE SURFACE DRAIN



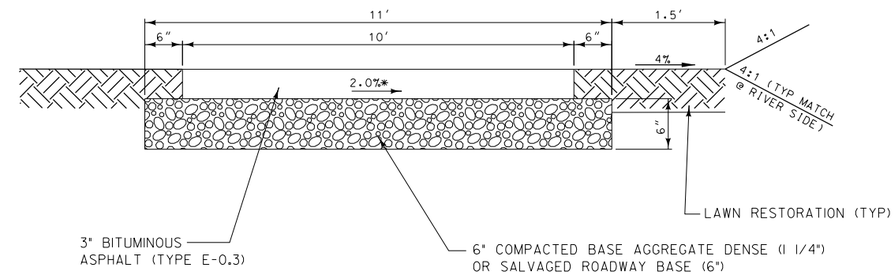
CONCRETE RIBBON



CONCRETE CURB & GUTTER 31"

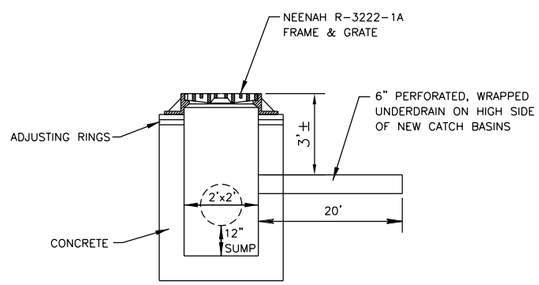


CONCRETE CURB & GUTTER 4'

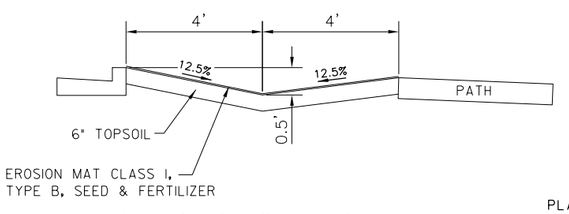


PEDESTRIAN PATH DETAIL

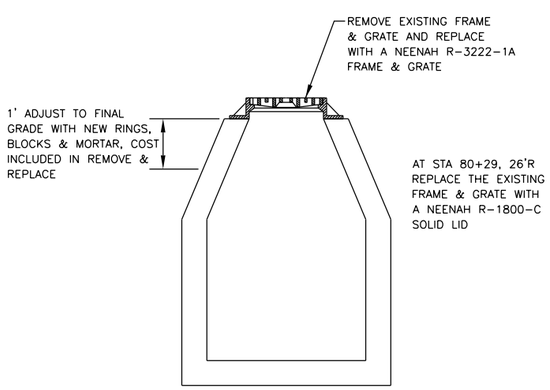
*NOTE:
CROSS SLOPE OF PAVEMENT SHALL BE TO LOW SIDE OF TOPOGRAPHY SEE PLAN AND CROSS SECTIONS.



NEW CATCH BASIN DETAIL

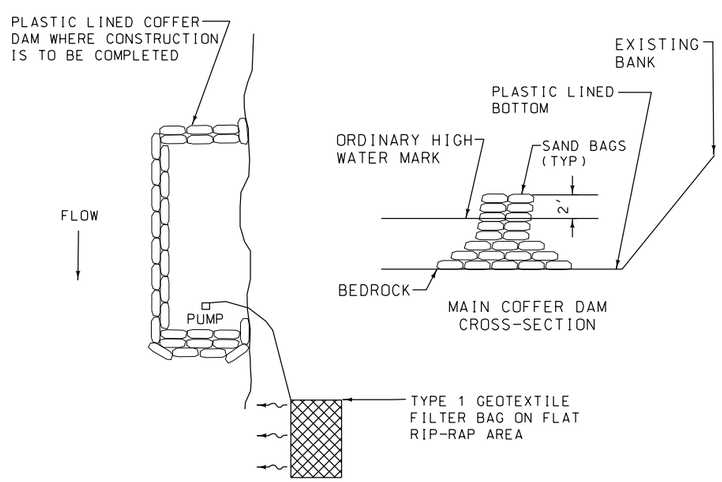


INFILTRATION SWALE DETAIL

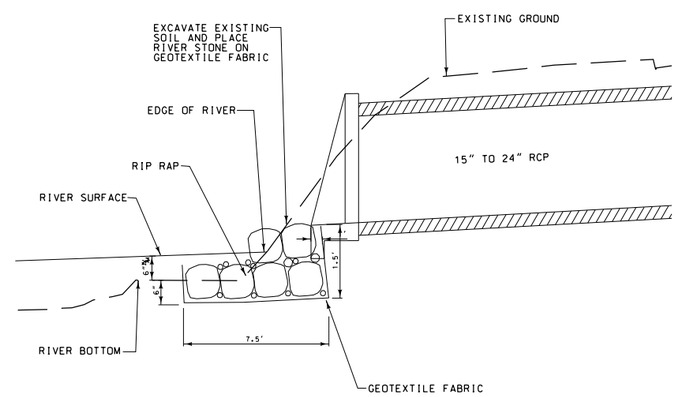


EXISTING CATCH BASIN DETAIL

REMOVE & REPLACE GRATE



COFFER DAM DETAIL

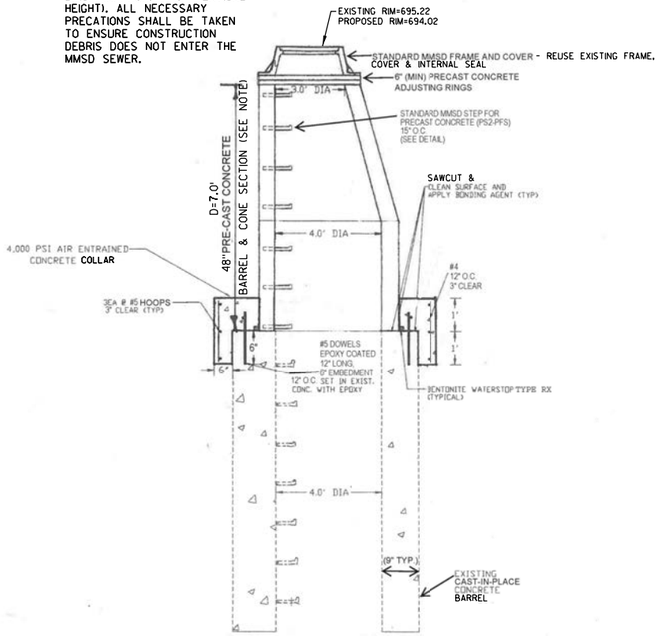


TYPICAL OUTFALL CROSS SECTION VIEW

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG	CHECKED BY: TH
SCALE: NTS	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: DETAILS
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 4	4 OF 110
	FILE NO.

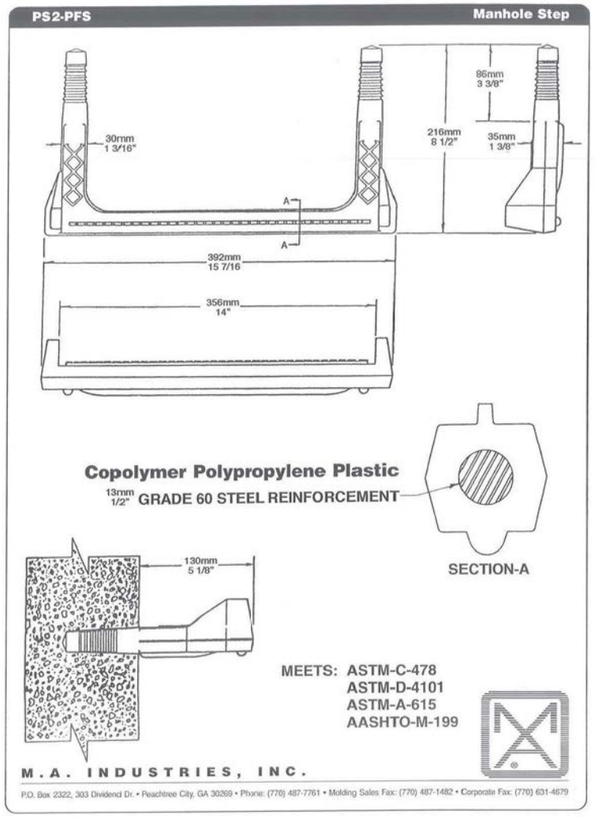
NOTE: REMOVE ALL EXISTING BRICK (APPROX. 7'-0" VERTICAL HEIGHT). ALL NECESSARY PRECATIONS SHALL BE TAKEN TO ENSURE CONSTRUCTION DEBRIS DOES NOT ENTER THE MMSD SEWER.



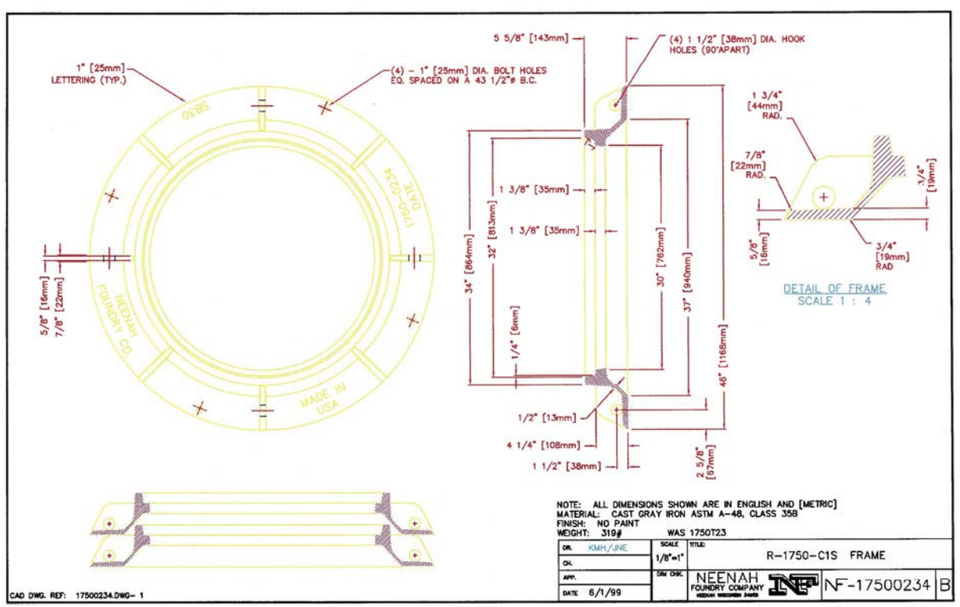
DETAIL FOR PRECAST MANHOLE EXTENSION TO A MONOLITHIC MANHOLE WITH CONCRETE COLLAR

NTS

MIS MH RECONSTRUCCT AT NASH ST



NOTE: THE R-1750-C1S FRAME CAN BE MACHINED BY NEENAH FOUNDRY TO RECEIVE THE STANDARD MMSD MIS COVER (NEENAH FOUNDRY CATALOG NO. 0000-1736)



NOTES:
1. USE OF LOW PROFILE FRAME WILL REQUIRE THE INSTALLATION OF AN EXTERNAL RUBBER BOOT FOR THE MANHOLE SEAL AT THE CONTRACTOR'S COST.
2. THE EXISTING MMSD MANHOLE COVER SHALL BE SALVAGED AND REINSTALLED

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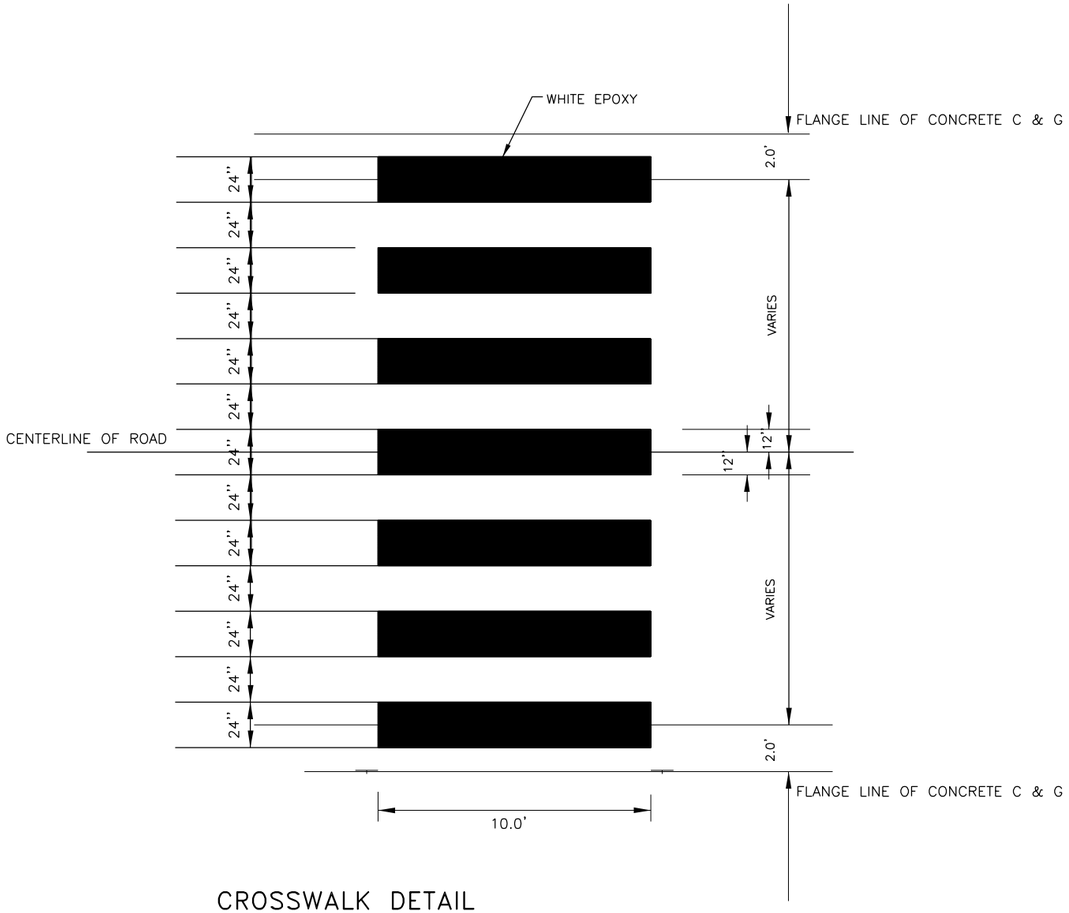
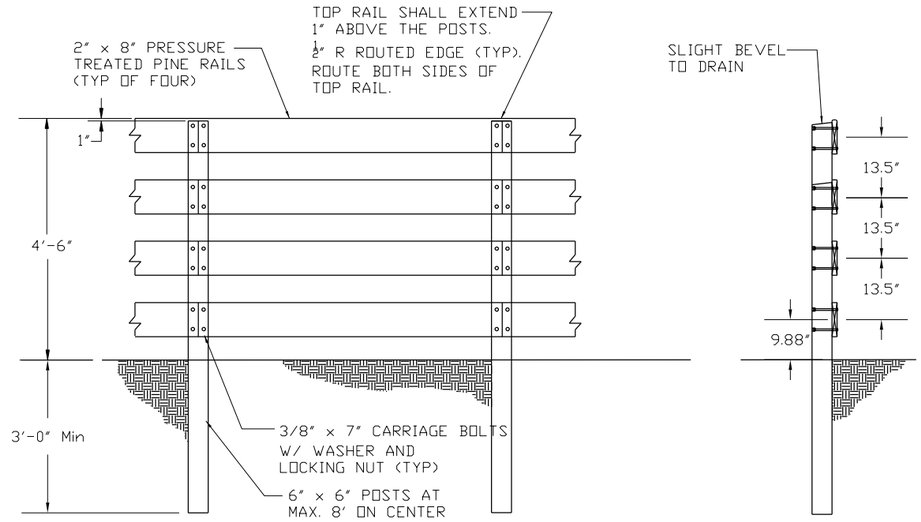
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: DETAILS
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 4a
5 OF 111
FILE NO.

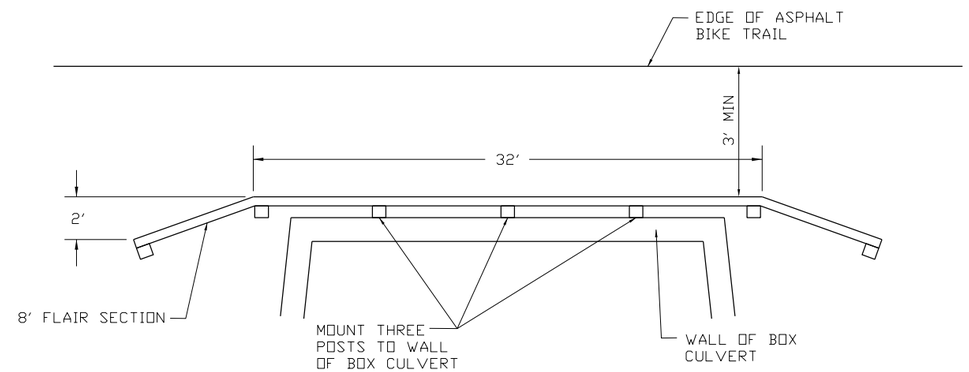


CROSSWALK DETAIL

SECTION

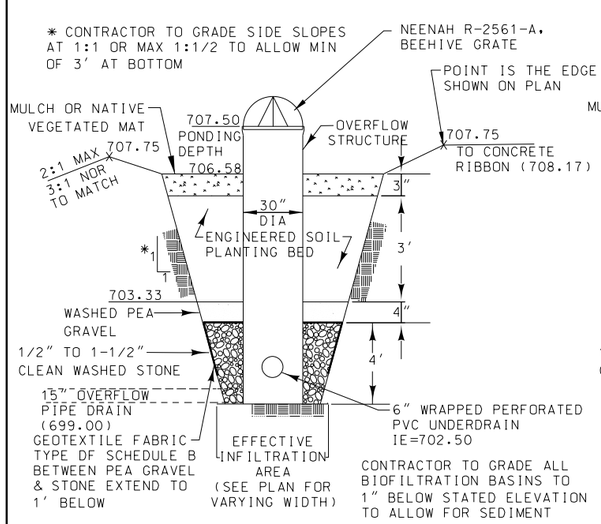
Scale: NO SCALE





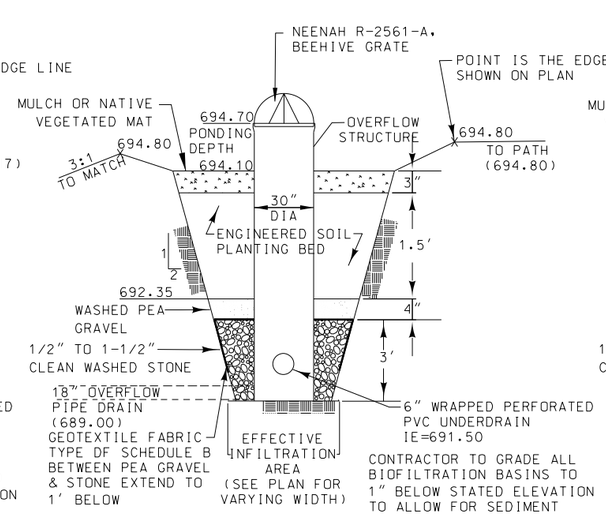
WOODEN RAILING DETAILS AT BOX CULVERT (59+00±)

NO SCALE



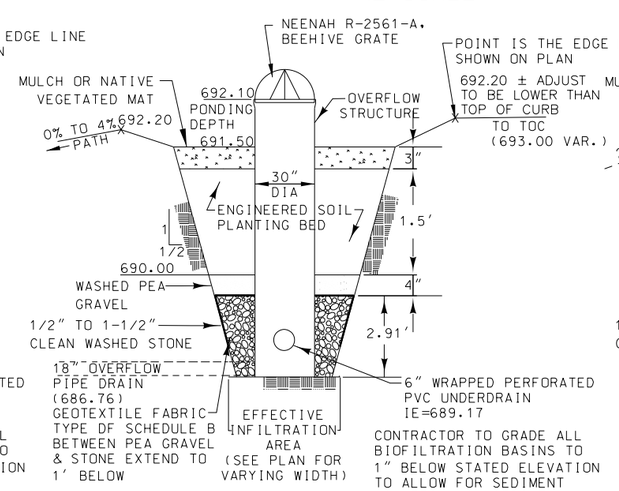
BIOFILTRATION BASIN #1 STA 31+50

NTS



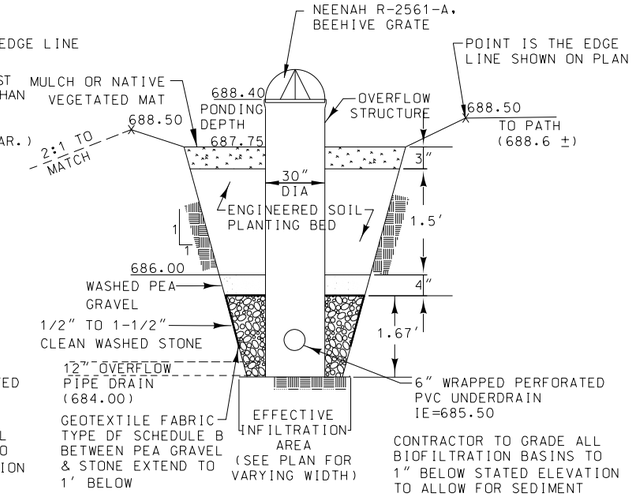
BIOFILTRATION BASIN #2 STA 65+00

NTS



BIOFILTRATION BASIN #3 STA 81+00

NTS

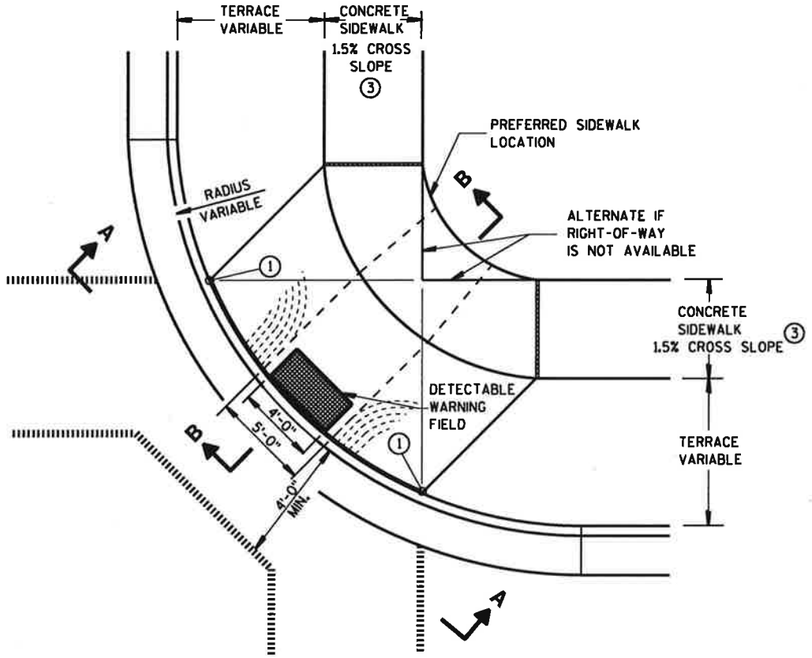


BIOFILTRATION BASIN #4 STA 92+00

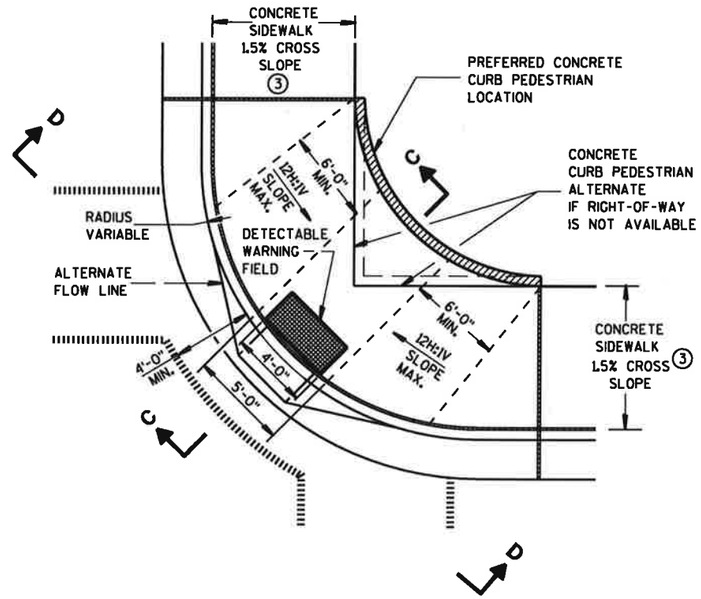
NTS

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG	CHECKED BY: TH
SCALE: NTS	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: DETAILS
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 5 OF 110	FILE NO.



PLAN VIEW
TYPE 1 RAMP
(CENTER OF CORNER RADIUS)



PLAN VIEW
TYPE 1-A RAMP
(NO TERRACE)

GENERAL NOTES

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

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

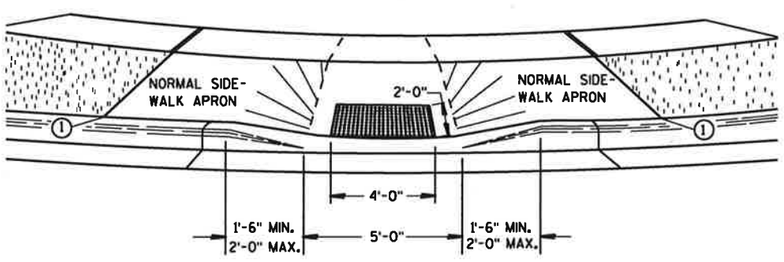
① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

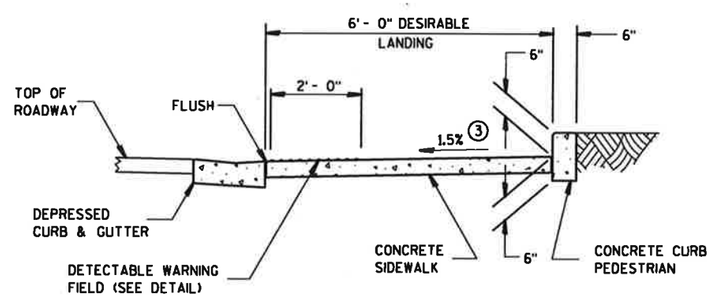
③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

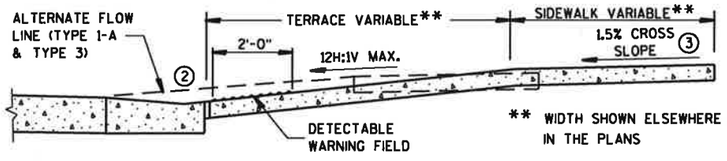
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



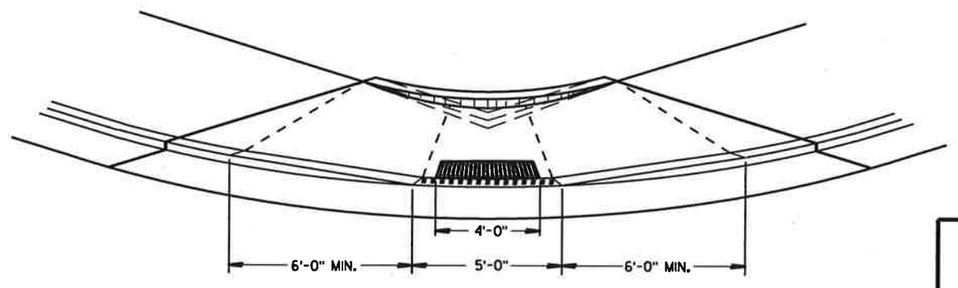
VIEW A-A



SECTION C-C



SECTION B-B

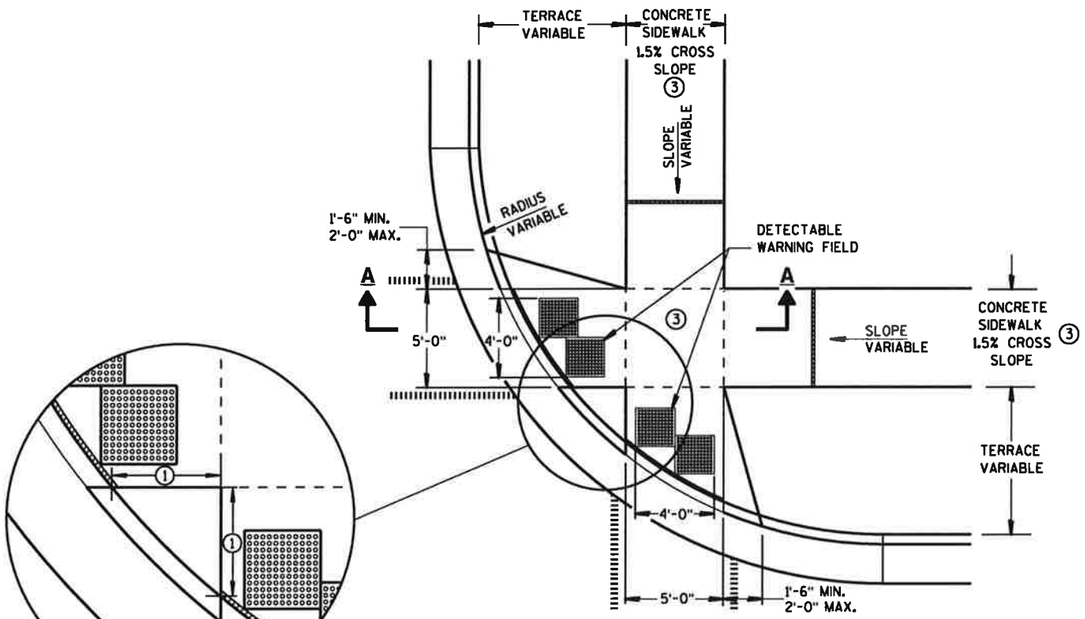


VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 8 D 5-15a



PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

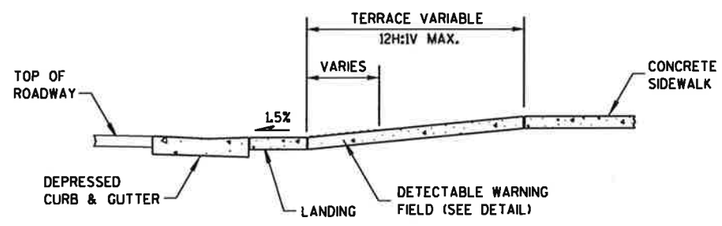
1. WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

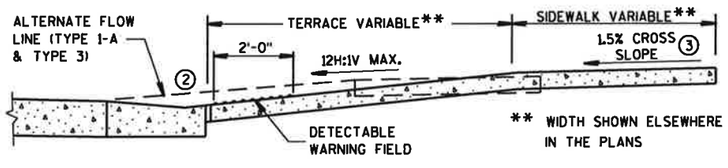
3. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

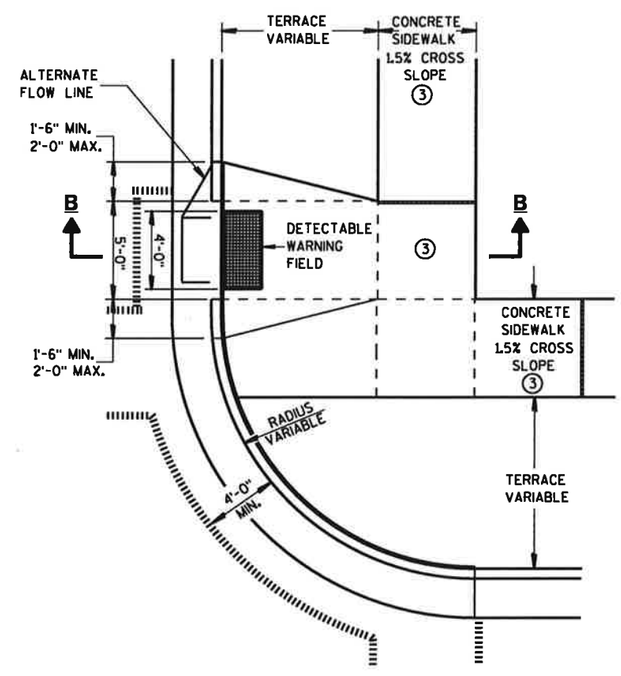
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



SECTION A-A



SECTION B-B



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

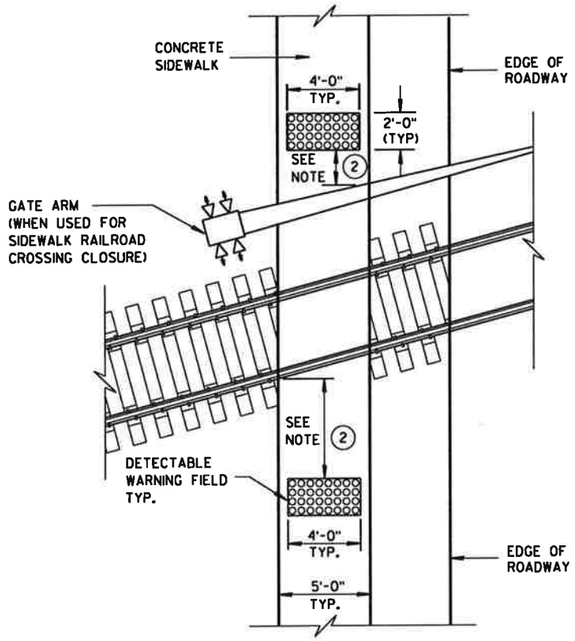
6

6

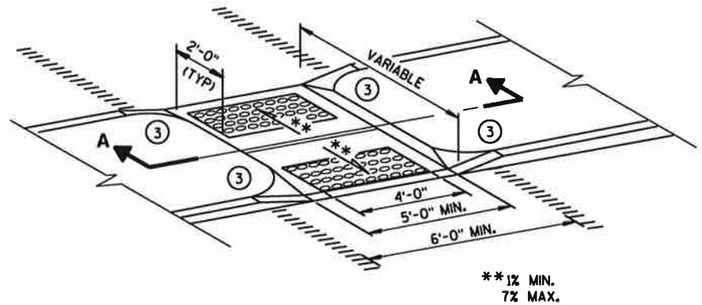
CURB RAMPS
TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 5-15b



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



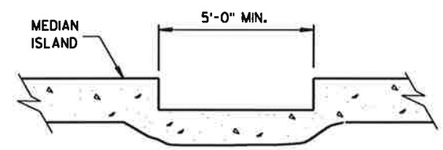
MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

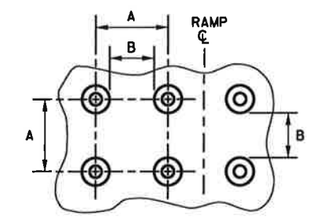
SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

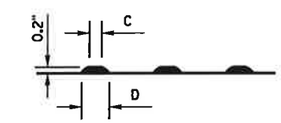
1. SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.
2. THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.
3. INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



SECTION A-A



PLAN VIEW

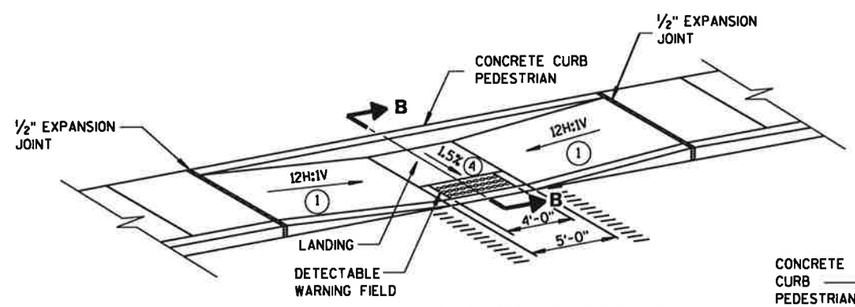


ELEVATION VIEW

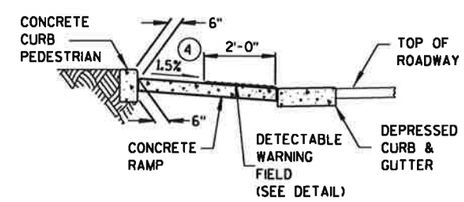
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

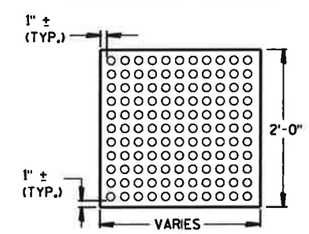
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



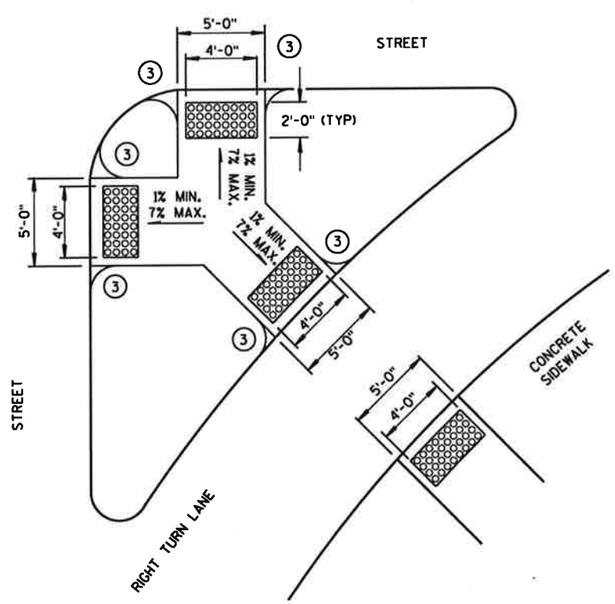
MID-BLOCK CROSSING
TYPE 7A



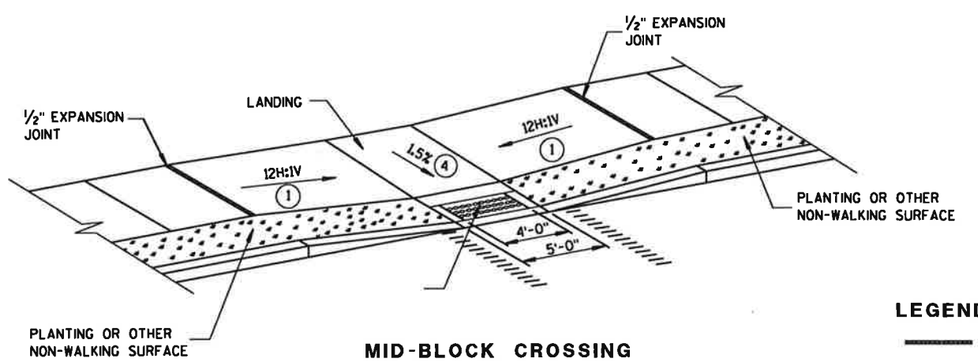
SECTION B-B



PLAN VIEW
DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

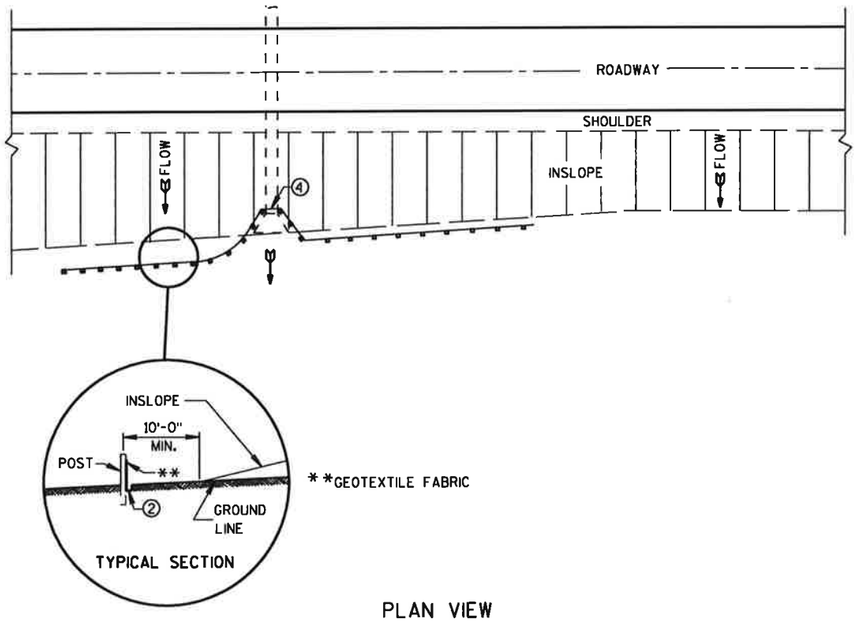
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

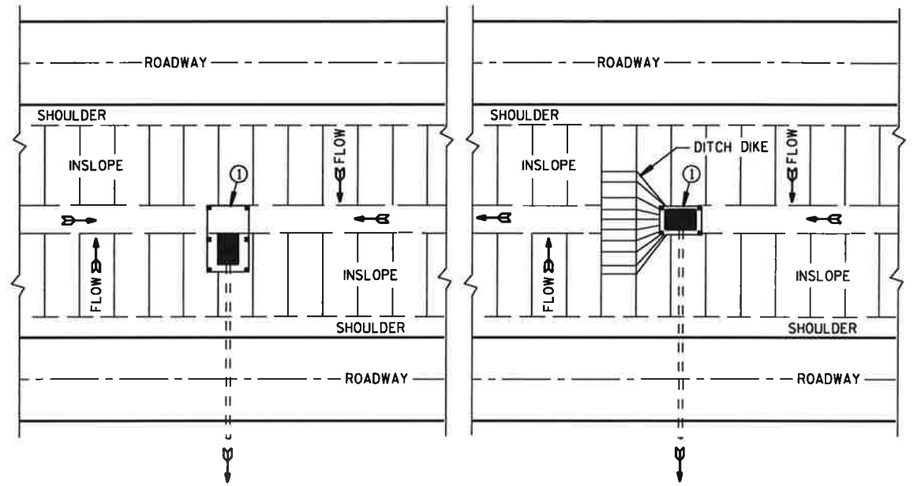
APPROVED
2-6-2013 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 D 5-15e



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

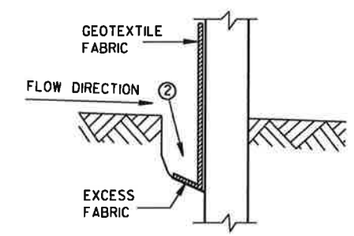
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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

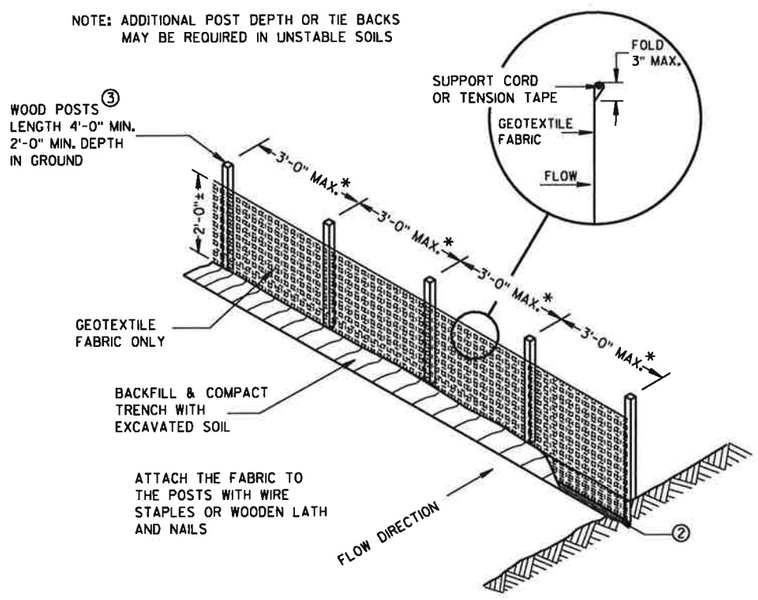
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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

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

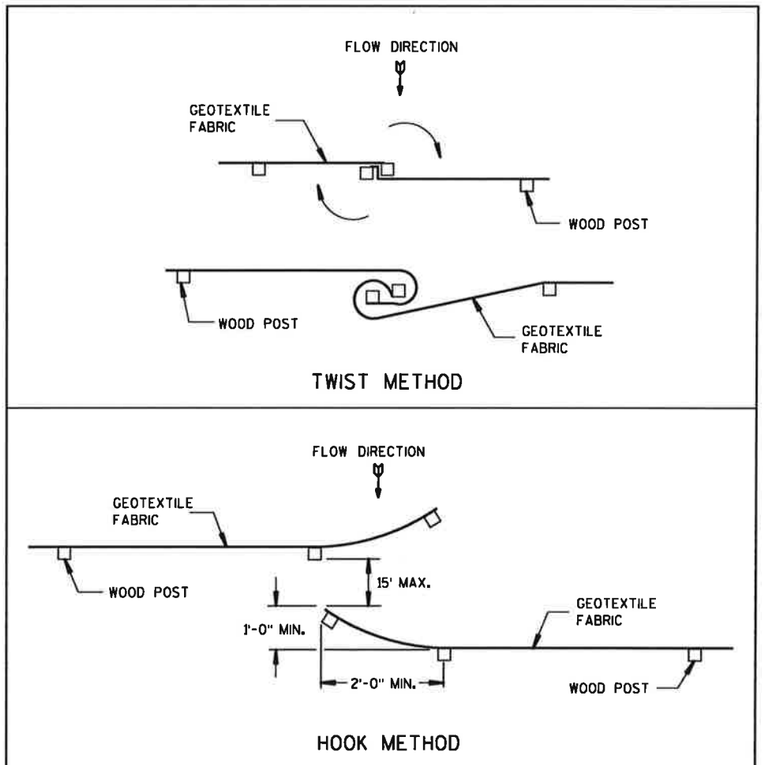


TRENCH DETAIL

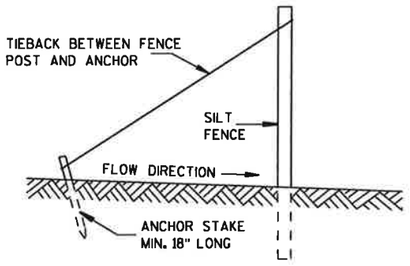


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤

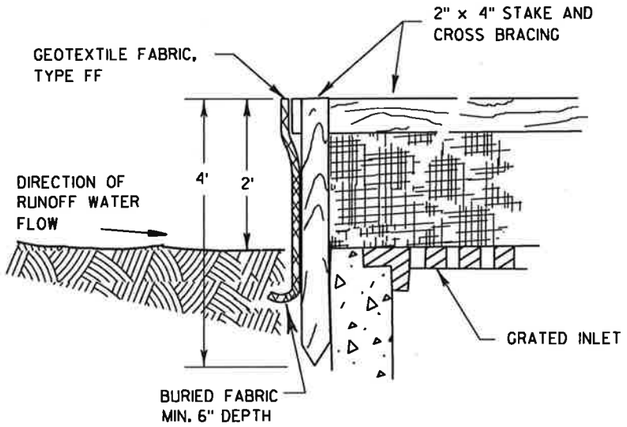


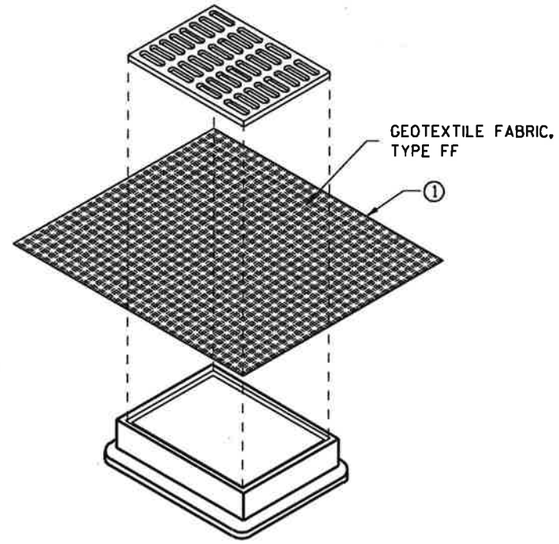
SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE FHWA	/S/ Beth Connestra CHIEF ROADWAY DEVELOPMENT ENGINEER

6
S.D.D. 8 E 9-6

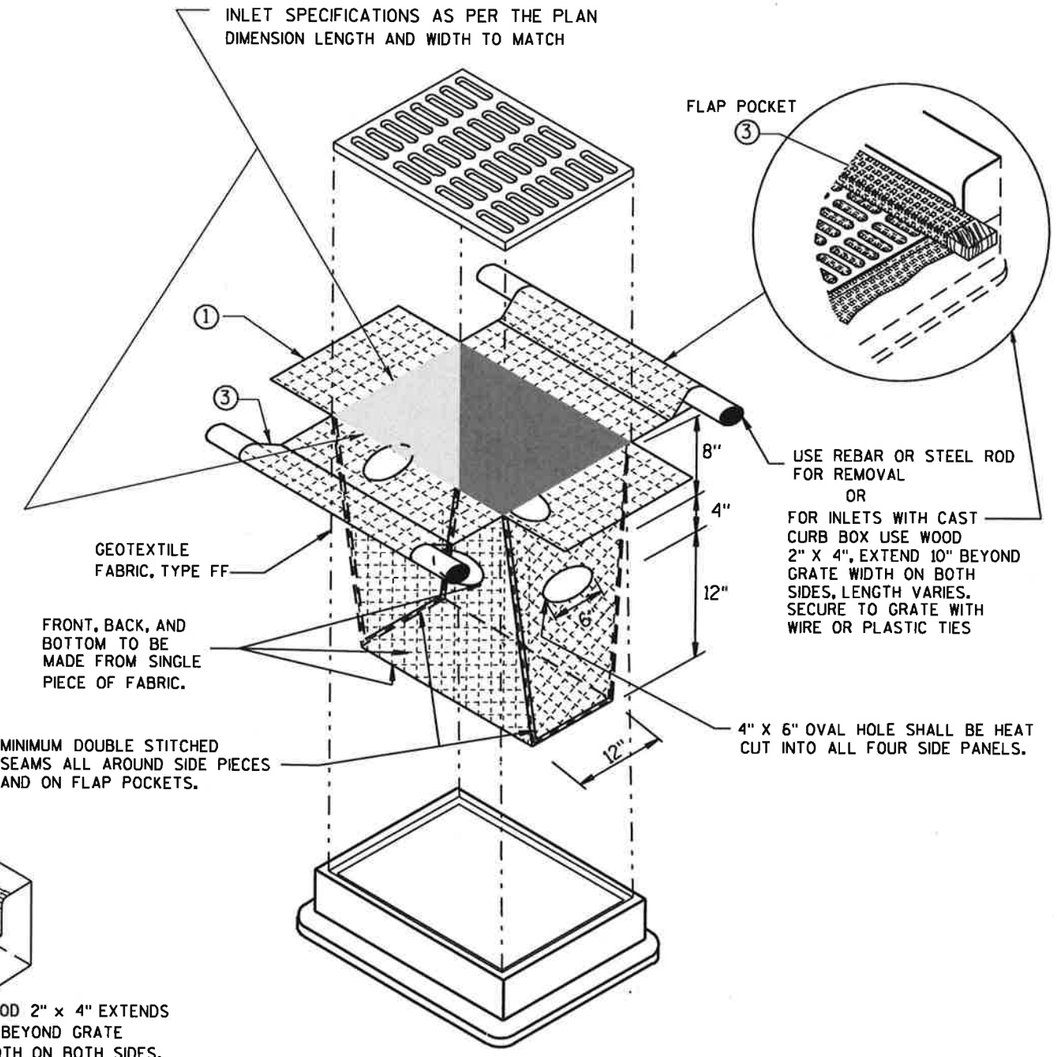
8E10: Inlet Protection Type A, B, C and D

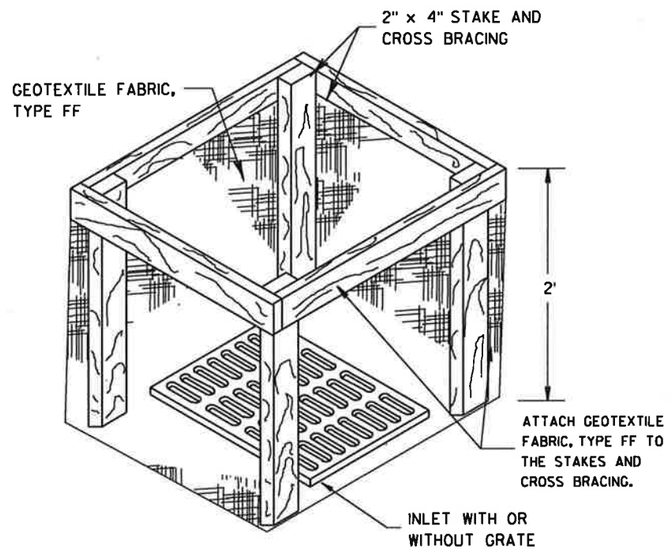




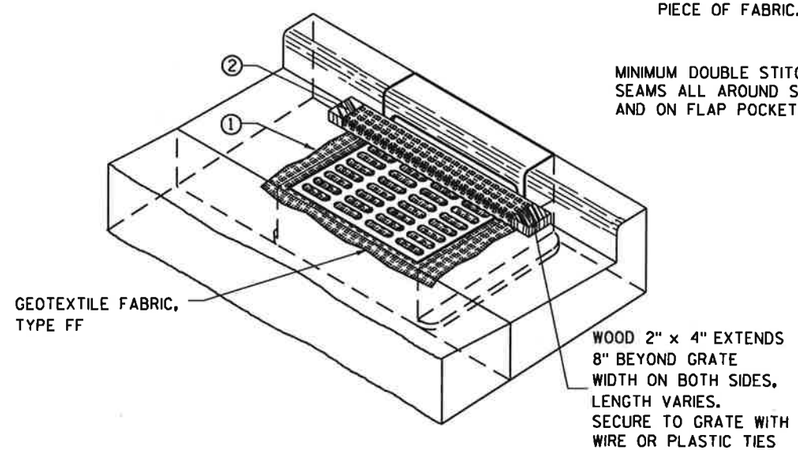
INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)





INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE C (WITH CURB BOX)

INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

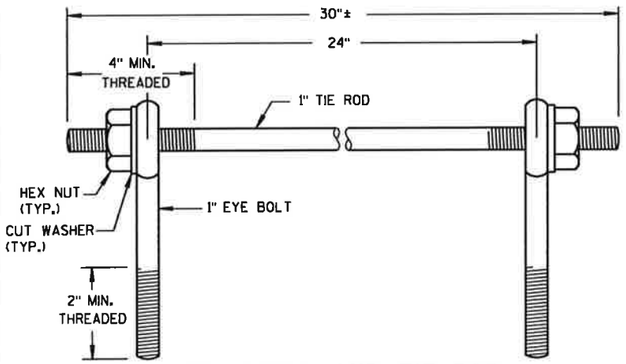
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

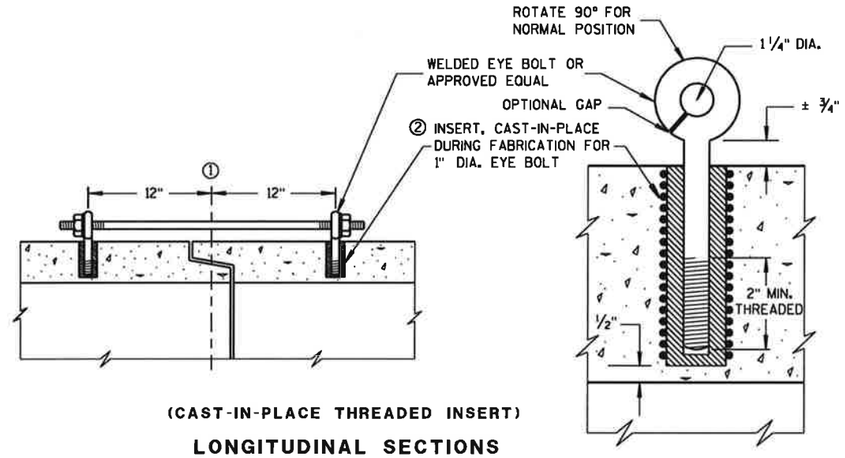
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 — DATE
/S/ Beth Connestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

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

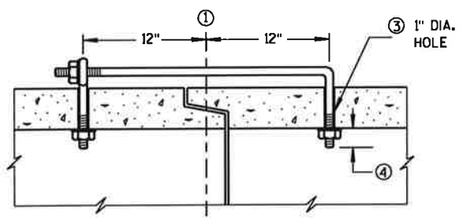
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

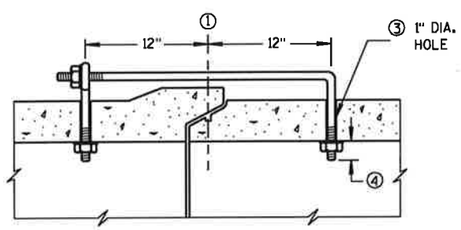
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

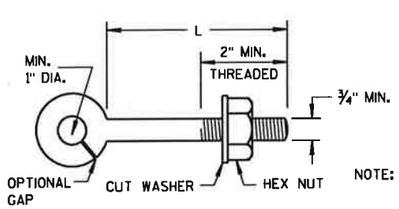


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

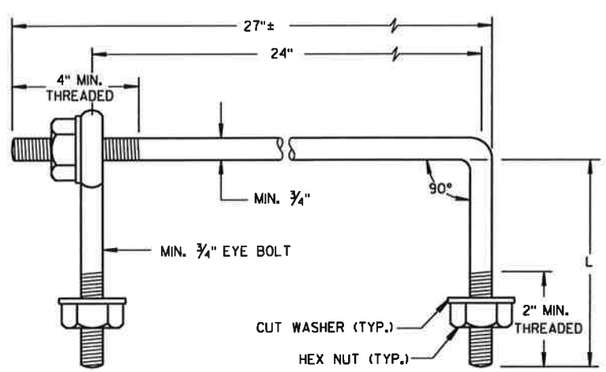
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

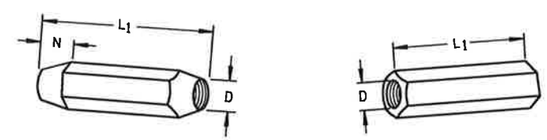
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

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

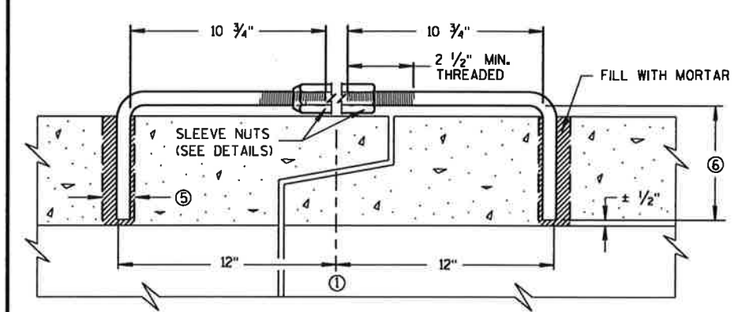
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

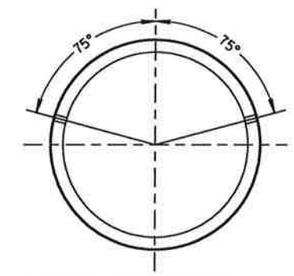
SLEEVE NUTS



LONGITUDINAL SECTION

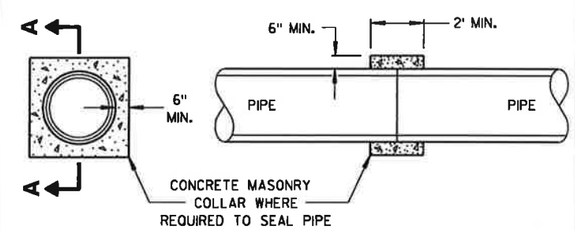
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



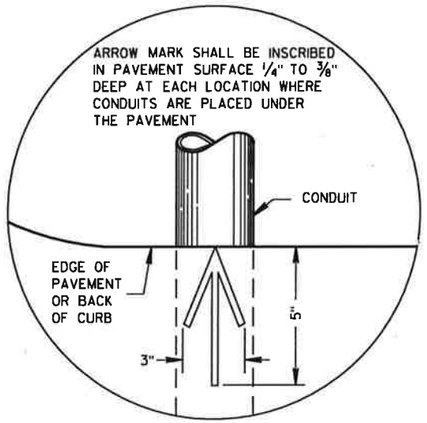
SECTION A-A

CONCRETE COLLAR DETAIL

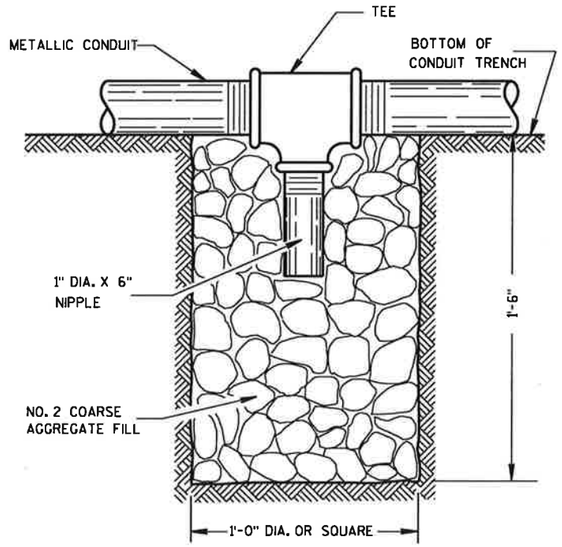
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

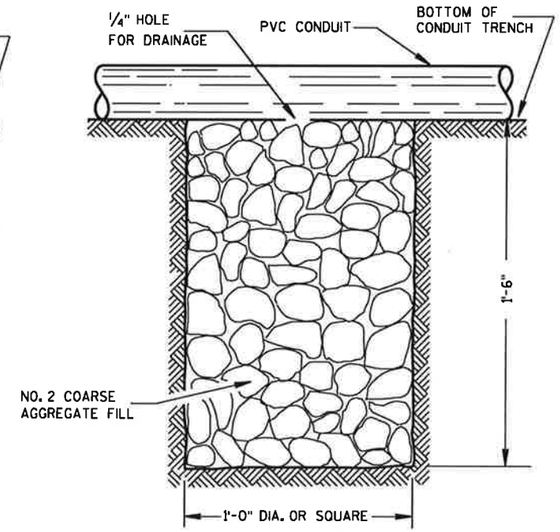


PLAN VIEW
ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

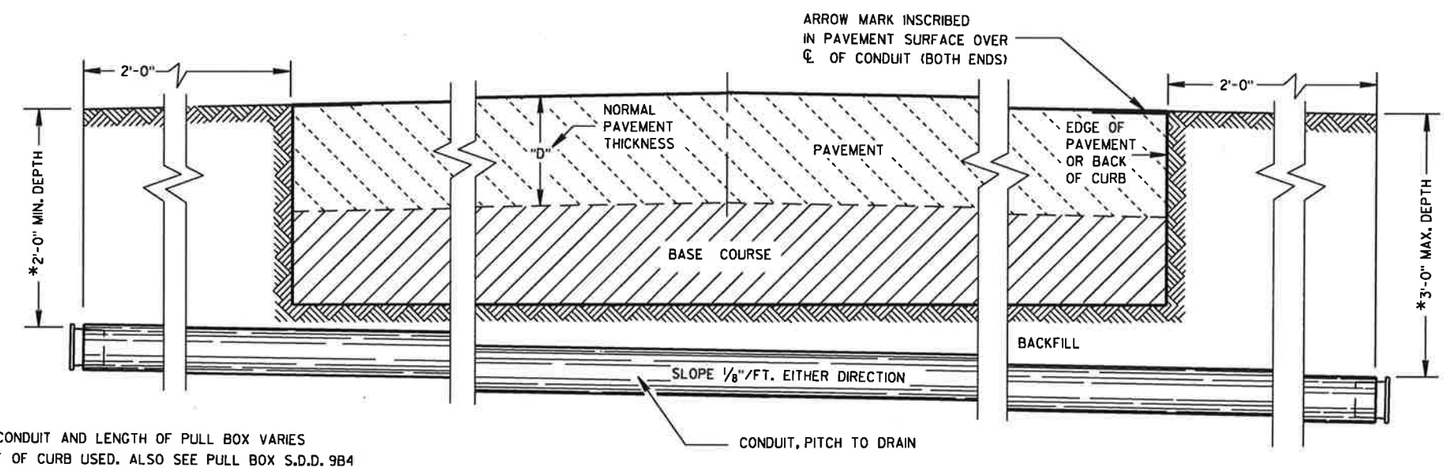
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION
DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

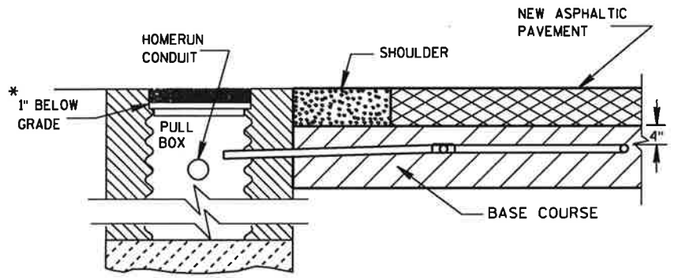
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/23/03 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGINEER FOR HWYS
FHWA

6
S.D.D. 9 B 2-7

9F8: Loop Detector Placed in Crushed Aggregate Base (New Asphaltic Pavement)



SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD-OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

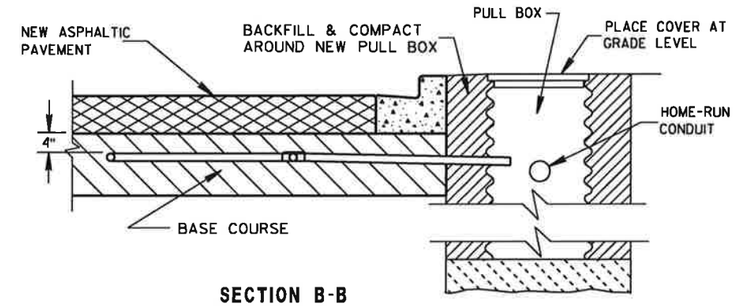
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

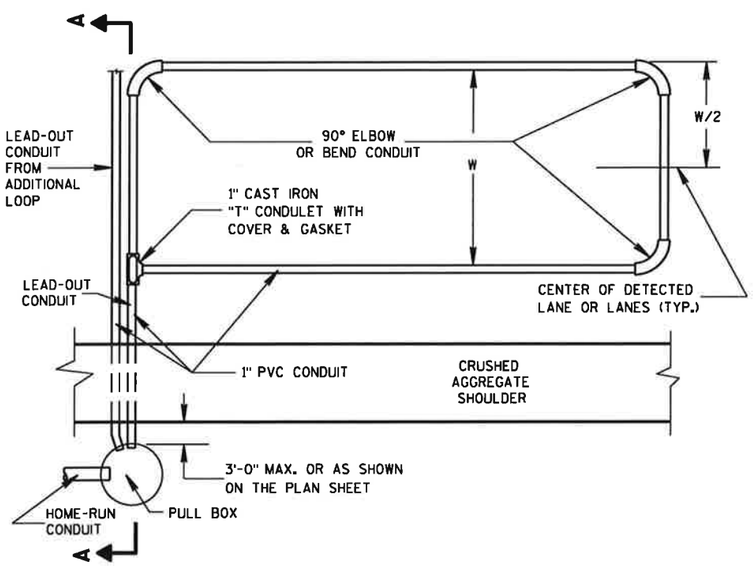
SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

DRIVE A 1½" MAX. PK NAIL INTO THE NEW ASPHALTIC PAVEMENT AND DIRECTLY ABOVE THE CONDULET AFTER THE FINAL LAYER OF NEW ASPHALTIC PAVEMENT IS COMPLETELY INSTALLED, IF REQUIRED BY THE DISTRICT TRAFFIC SECTION.

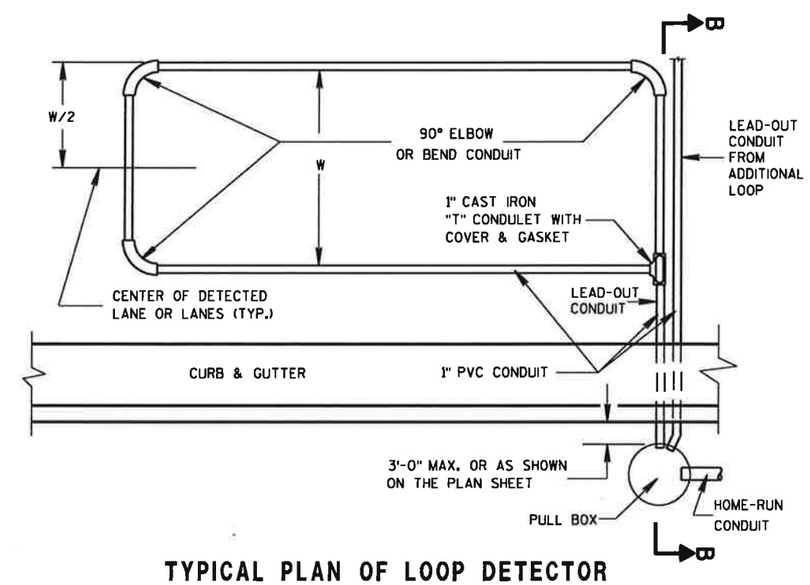


SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL

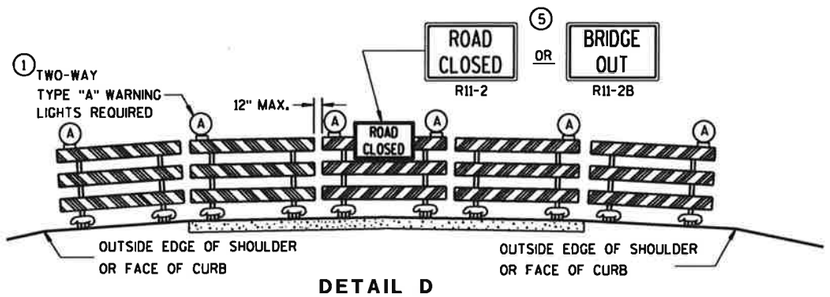


TYPICAL PLAN OF LOOP DETECTOR



TYPICAL PLAN OF LOOP DETECTOR

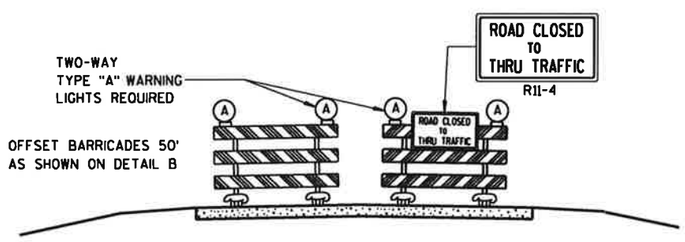
LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 6/7/06 — DATE /S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGINEER FOR HWYS FHWA



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

1. TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).
2. THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
3. FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
4. FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
5. FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
6. INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
7. "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 — DATE

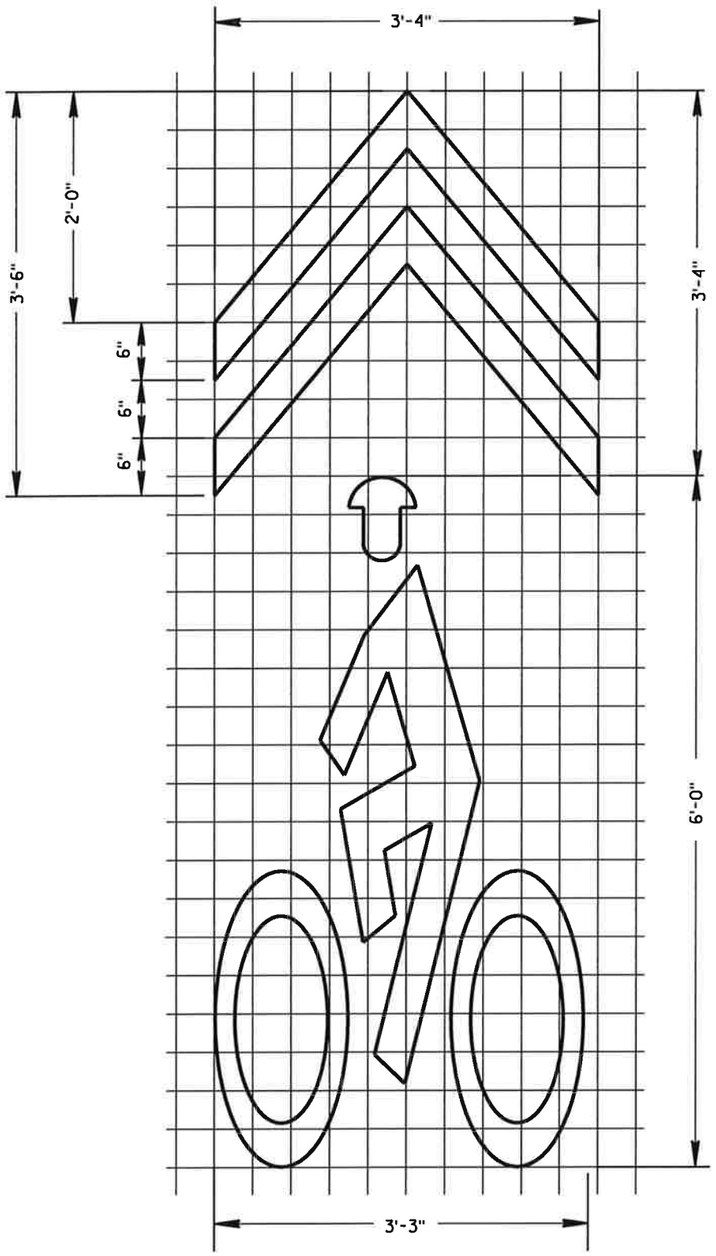
/S/ Travis Feltes — STATE TRAFFIC ENGINEER OF DESIGN

FHWA

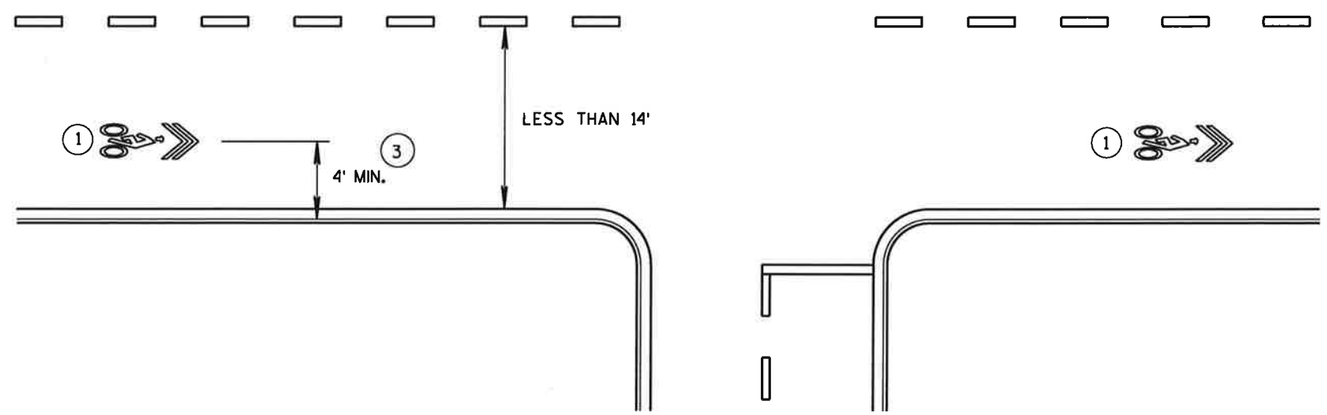
GENERAL NOTES

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

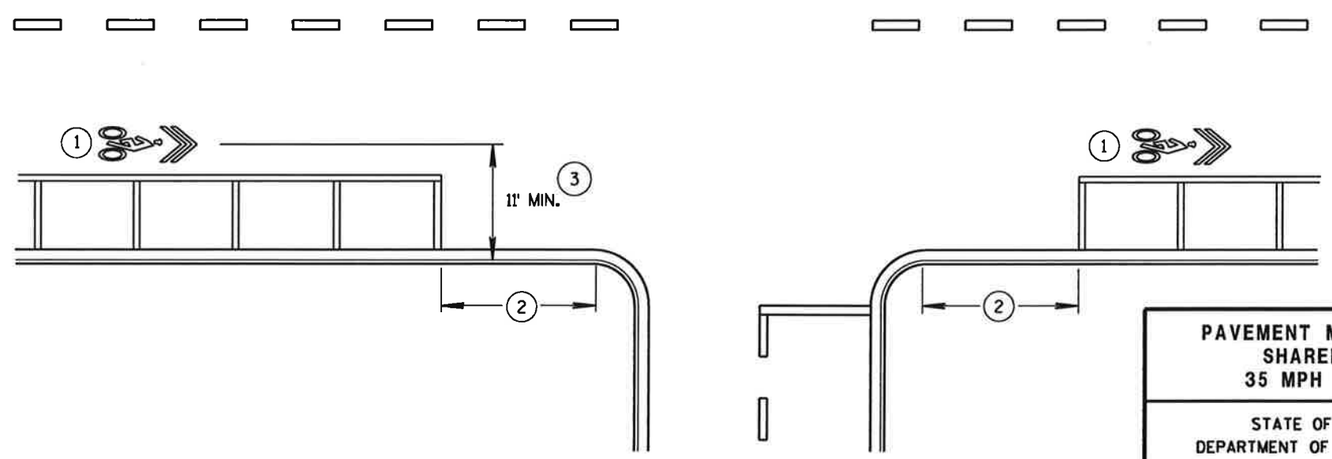
1. SPACED A MAXIMUM OF 250 FEET.
2. 20 FOOT MINIMUM FROM CURB RADIUS.
3. OR TO EDGE OF PAVEMENT WITHOUT CURB.



BIKE SYMBOL FOR SHARED LANE



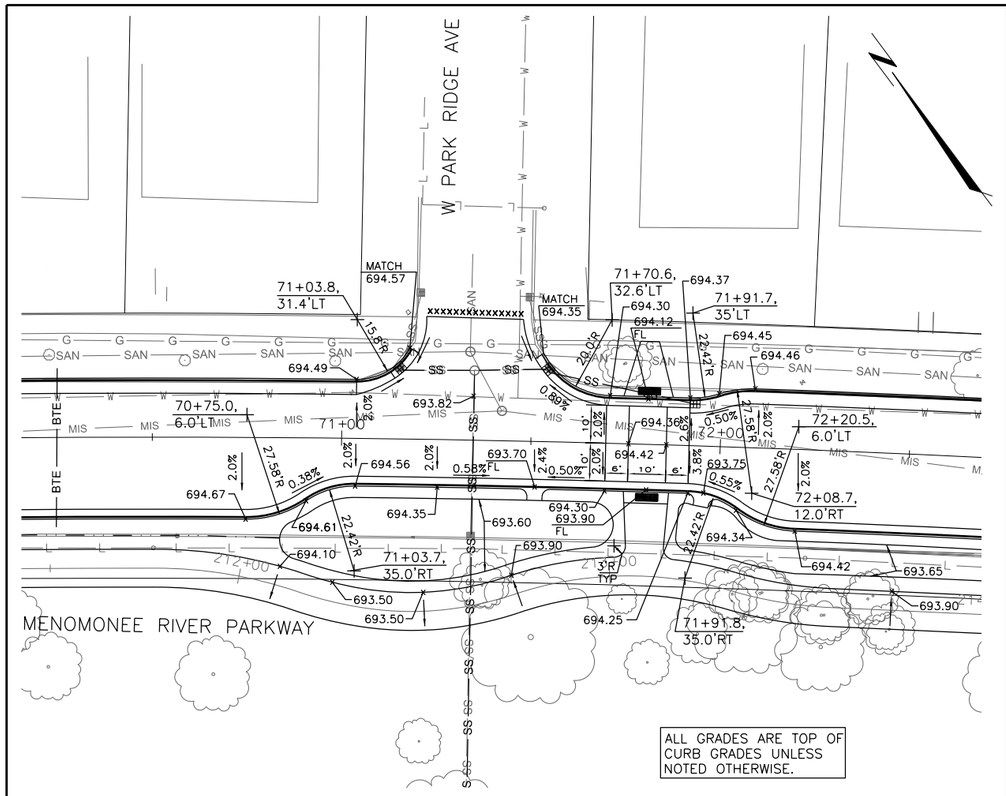
WITHOUT PARKING

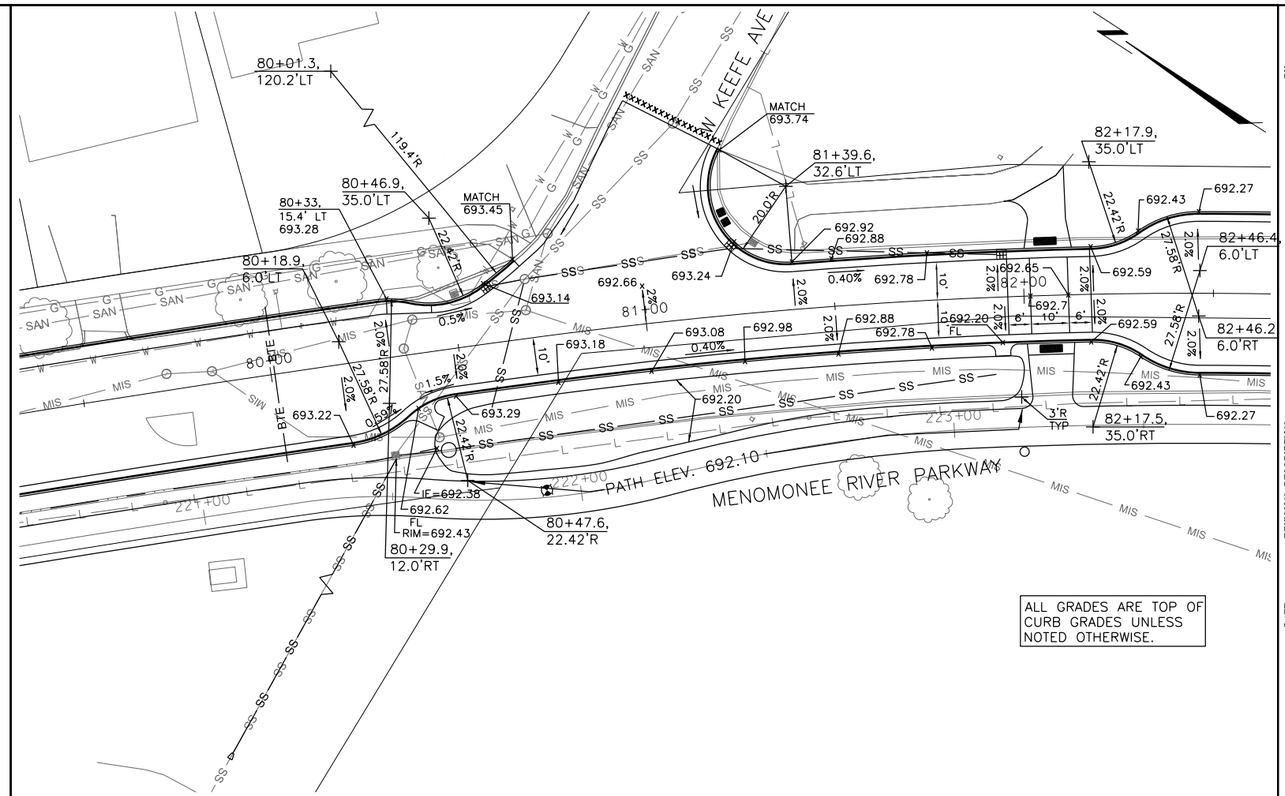


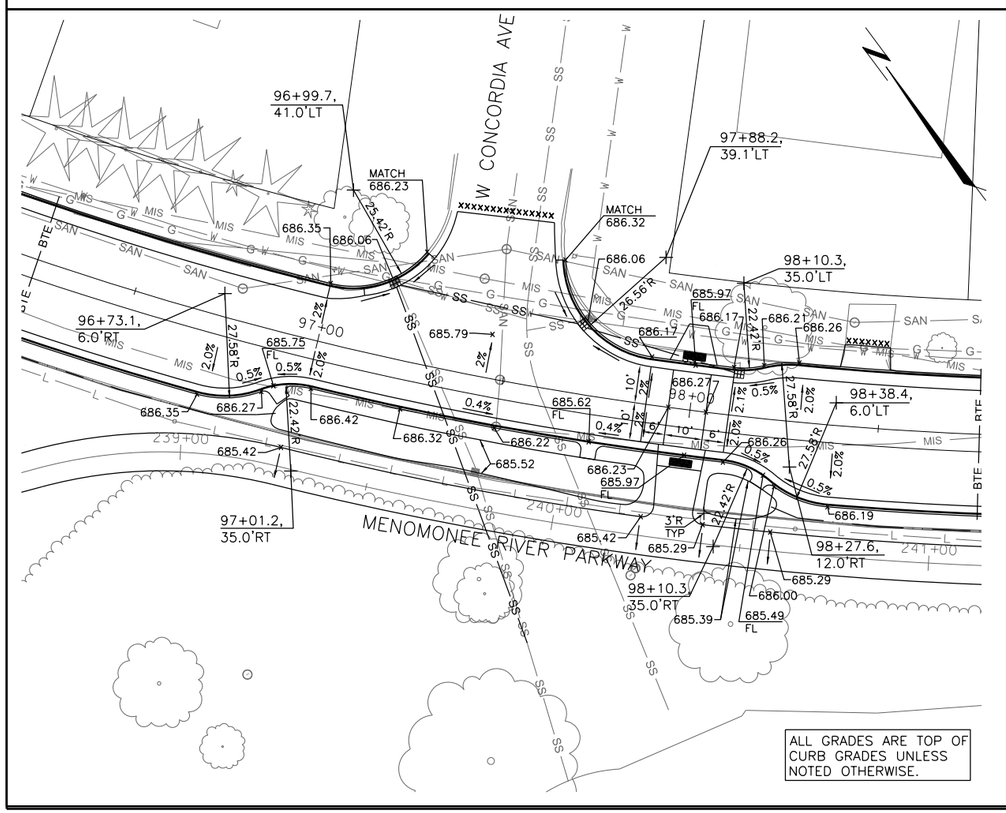
WITH PARKING

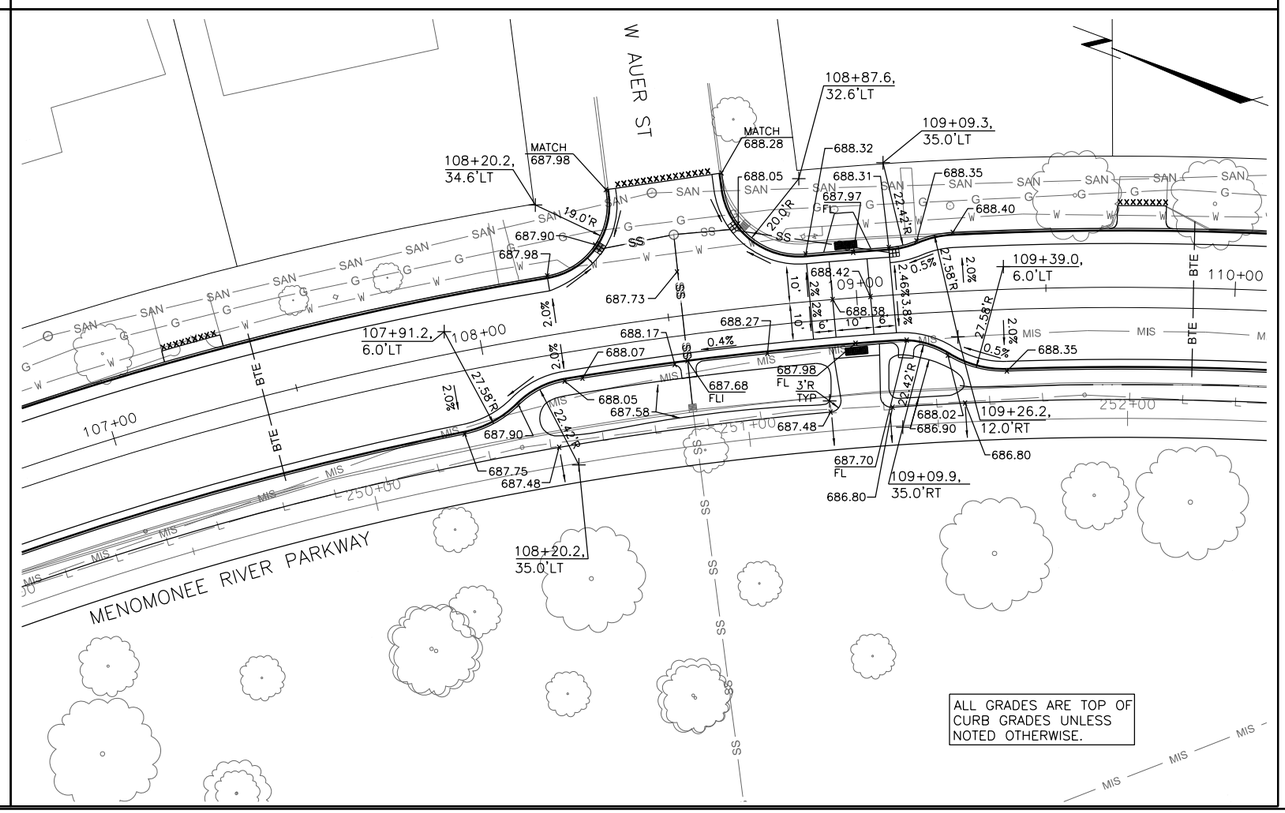
PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-30-2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER
FHWA	

S.D.D. 15 C 29-3f







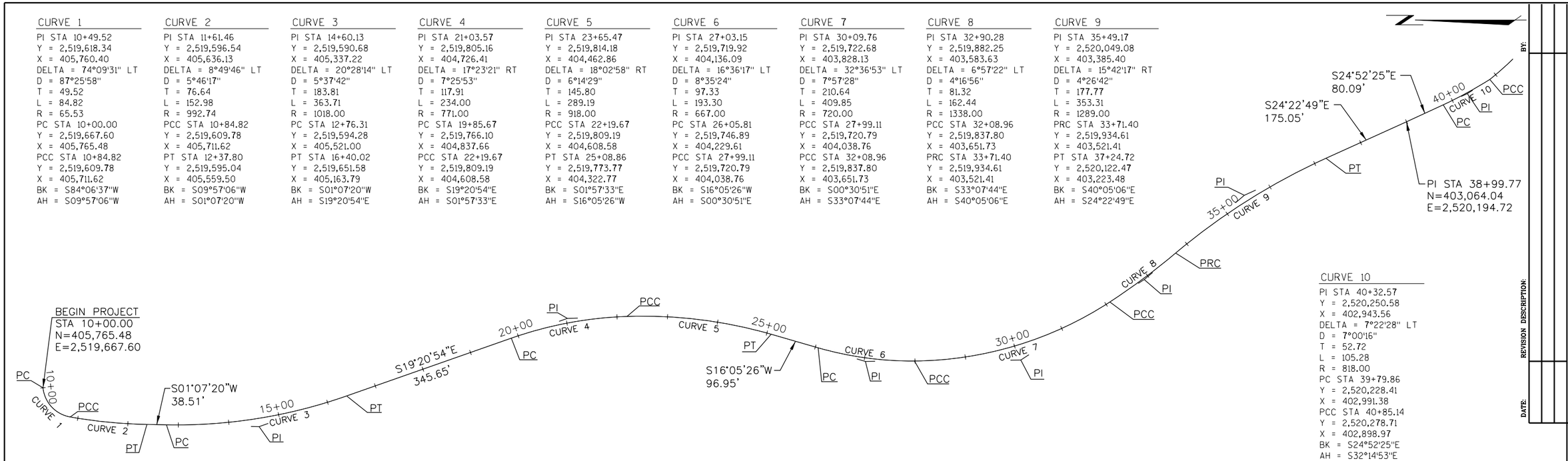


DATE: | REVISION DESCRIPTION: | BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

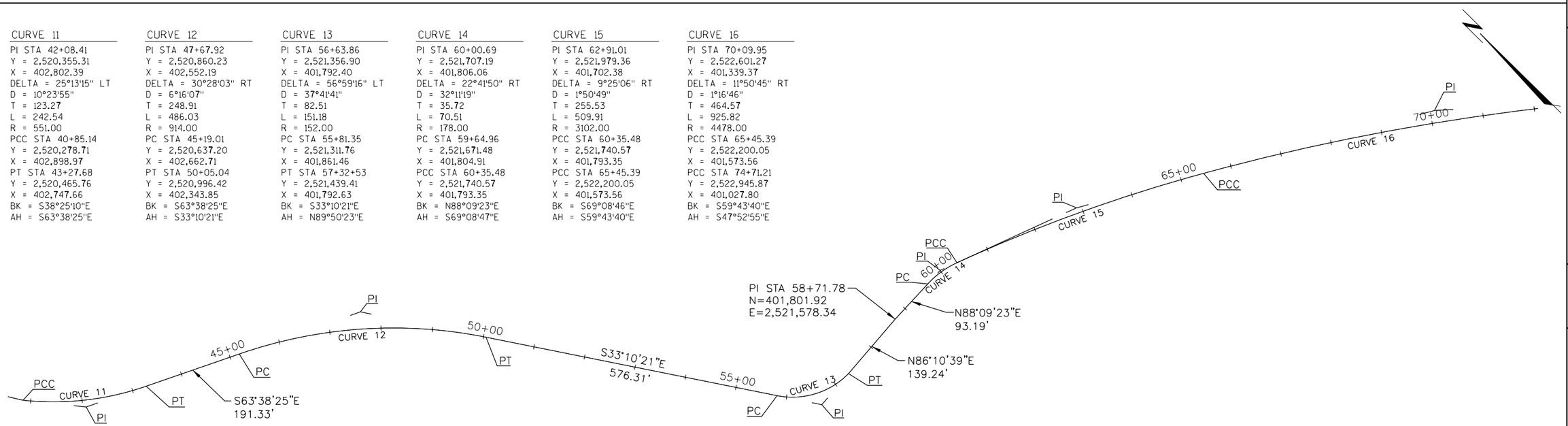
DRAWN BY: BJG | CHECKED BY: TH
SCALE: 1"=40' | DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: INTERSECTION DETAILS
SITE NO. | BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 6 | 6 OF 110 | FILE NO.

CURVE 1	CURVE 2	CURVE 3	CURVE 4	CURVE 5	CURVE 6	CURVE 7	CURVE 8	CURVE 9
PI STA 10+49.52	PI STA 11+61.46	PI STA 14+60.13	PI STA 21+03.57	PI STA 23+65.47	PI STA 27+03.15	PI STA 30+09.76	PI STA 32+90.28	PI STA 35+49.17
Y = 2,519,618.34	Y = 2,519,596.54	Y = 2,519,590.68	Y = 2,519,805.16	Y = 2,519,814.18	Y = 2,519,719.92	Y = 2,519,722.68	Y = 2,519,882.25	Y = 2,520,049.08
X = 405,760.40	X = 405,636.13	X = 405,337.22	X = 404,726.41	X = 404,462.86	X = 404,136.09	X = 403,828.13	X = 403,583.63	X = 403,385.40
DELTA = 74°09'31" LT	DELTA = 8°49'46" LT	DELTA = 20°28'14" LT	DELTA = 17°23'21" RT	DELTA = 18°02'58" RT	DELTA = 16°36'17" LT	DELTA = 32°36'53" LT	DELTA = 6°57'22" LT	DELTA = 15°42'17" RT
D = 87°25'58"	D = 5°46'17"	D = 5°37'42"	D = 7°25'53"	D = 6°14'29"	D = 8°35'24"	D = 7°57'28"	D = 4°16'56"	D = 4°26'42"
T = 49.52	T = 76.64	T = 183.81	T = 117.91	T = 145.80	T = 97.33	T = 210.64	T = 81.32	T = 177.77
L = 84.82	L = 152.98	L = 363.71	L = 234.00	L = 289.19	L = 193.30	L = 409.85	L = 162.44	L = 353.31
R = 65.53	R = 992.74	R = 1018.00	R = 771.00	R = 918.00	R = 667.00	R = 720.00	R = 1338.00	R = 1289.00
PC STA 10+00.00	PCC STA 10+84.82	PC STA 12+76.31	PC STA 19+85.67	PCC STA 22+19.67	PC STA 26+05.81	PCC STA 27+99.11	PCC STA 32+08.96	PRC STA 33+71.40
Y = 2,519,667.60	Y = 2,519,609.78	Y = 2,519,594.28	Y = 2,519,766.10	Y = 2,519,809.19	Y = 2,519,746.89	Y = 2,519,720.79	Y = 2,519,837.80	Y = 2,519,934.61
X = 405,765.48	X = 405,711.62	X = 405,521.00	X = 404,837.66	X = 404,608.58	X = 404,229.61	X = 404,038.76	X = 403,651.73	X = 403,521.41
PCC STA 10+84.82	PT STA 12+37.80	PT STA 16+40.02	PCC STA 22+19.67	PT STA 25+08.86	PCC STA 27+99.11	PCC STA 32+08.96	PRC STA 33+71.40	PT STA 37+24.72
Y = 2,519,609.78	Y = 2,519,595.04	Y = 2,519,651.58	Y = 2,519,809.19	Y = 2,519,773.77	Y = 2,519,720.79	Y = 2,519,837.80	Y = 2,519,934.61	Y = 2,520,122.47
X = 405,711.62	X = 405,559.50	X = 405,163.79	X = 404,608.58	X = 404,322.77	X = 404,038.76	X = 403,651.73	X = 403,521.41	X = 403,223.48
BK = S84°06'37"W	BK = S09°57'06"W	BK = S01°07'20"W	BK = S19°20'54"E	BK = S01°57'33"E	BK = S16°05'26"W	BK = S00°30'51"E	BK = S33°07'44"E	BK = S40°05'06"E
AH = S09°57'06"W	AH = S01°07'20"W	AH = S19°20'54"E	AH = S01°57'33"E	AH = S16°05'26"W	AH = S00°30'51"E	AH = S33°07'44"E	AH = S40°05'06"E	AH = S24°22'49"E



CURVE 10
PI STA 40+32.57
Y = 2,520,250.58
X = 402,943.56
DELTA = 7°22'28" LT
D = 7°00'16"
T = 52.72
L = 105.28
R = 818.00
PC STA 39+79.86
Y = 2,520,228.41
X = 402,991.38
PCC STA 40+85.14
Y = 2,520,278.71
X = 402,898.97
BK = S24°52'25"E
AH = S32°14'53"E

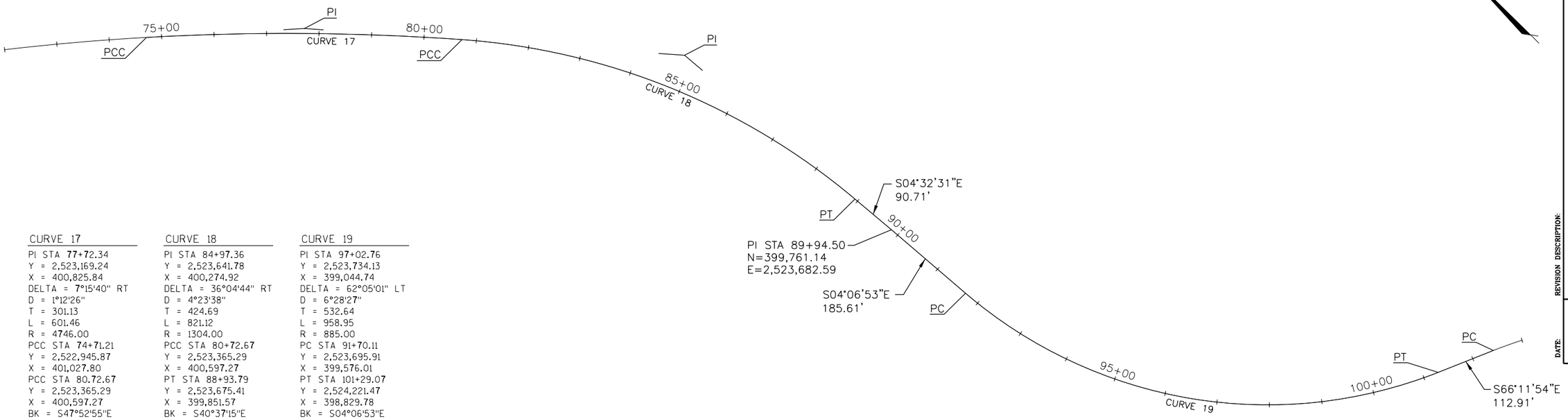
CURVE 11	CURVE 12	CURVE 13	CURVE 14	CURVE 15	CURVE 16
PI STA 42+08.41	PI STA 47+67.92	PI STA 56+63.86	PI STA 60+00.69	PI STA 62+91.01	PI STA 70+09.95
Y = 2,520,355.31	Y = 2,520,860.23	Y = 2,521,356.90	Y = 2,521,707.19	Y = 2,521,979.36	Y = 2,522,601.27
X = 402,802.39	X = 402,552.19	X = 401,792.40	X = 401,806.06	X = 401,702.38	X = 401,339.37
DELTA = 25°13'15" LT	DELTA = 30°28'03" RT	DELTA = 56°59'16" LT	DELTA = 22°41'50" RT	DELTA = 9°25'06" RT	DELTA = 11°50'45" RT
D = 10°23'55"	D = 6°16'07"	D = 37°41'41"	D = 32°11'19"	D = 1°50'49"	D = 1°16'46"
T = 123.27	T = 248.91	T = 82.51	T = 35.72	T = 255.53	T = 464.57
L = 242.54	L = 486.03	L = 151.18	L = 70.51	L = 509.91	L = 925.82
R = 551.00	R = 914.00	R = 152.00	R = 178.00	R = 3102.00	R = 4478.00
PCC STA 40+85.14	PC STA 45+19.01	PC STA 55+81.35	PC STA 59+64.96	PCC STA 60+35.48	PCC STA 65+45.39
Y = 2,520,278.71	Y = 2,520,637.20	Y = 2,521,311.76	Y = 2,521,671.48	Y = 2,521,740.57	Y = 2,522,200.05
X = 402,898.97	X = 402,662.71	X = 401,861.46	X = 401,804.91	X = 401,793.35	X = 401,573.56
PT STA 43+27.68	PT STA 50+05.04	PT STA 57+32+53	PCC STA 60+35.48	PCC STA 65+45.39	PCC STA 74+71.21
Y = 2,520,465.76	Y = 2,520,996.42	Y = 2,521,439.41	Y = 2,521,740.57	Y = 2,522,200.05	Y = 2,522,945.87
X = 402,747.66	X = 402,343.85	X = 401,792.63	X = 401,793.35	X = 401,573.56	X = 401,027.80
BK = S38°25'10"E	BK = S63°38'25"E	BK = S33°10'21"E	BK = N88°09'23"E	BK = S69°08'46"E	BK = S59°43'40"E
AH = S63°38'25"E	AH = S33°10'21"E	AH = N89°50'23"E	AH = S69°08'47"E	AH = S59°43'40"E	AH = S47°52'55"E



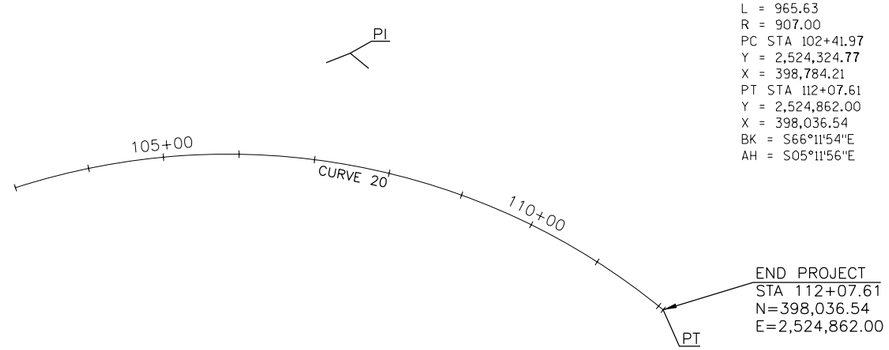
DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: ALIGNMENT PLAN
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 7
7 OF 110
FILE NO.



CURVE 17	CURVE 18	CURVE 19
PI STA 77+72.34	PI STA 84+97.36	PI STA 97+02.76
Y = 2,523,169.24	Y = 2,523,641.78	Y = 2,523,734.13
X = 400,825.84	X = 400,274.92	X = 399,044.74
DELTA = 7°15'40" RT	DELTA = 36°04'44" RT	DELTA = 62°05'01" LT
D = 1°12'26"	D = 4°23'38"	D = 6°28'27"
T = 301.13	T = 424.69	T = 532.64
L = 601.46	L = 821.12	L = 958.95
R = 4746.00	R = 1304.00	R = 885.00
PCC STA 74+71.21	PCC STA 80+72.67	PC STA 91+70.11
Y = 2,522,945.87	Y = 2,523,365.29	Y = 2,523,695.91
X = 401,027.80	X = 400,597.27	X = 399,576.01
PCC STA 80.72.67	PT STA 88+93.79	PT STA 101+29.07
Y = 2,523,365.29	Y = 2,523,675.41	Y = 2,524,221.47
X = 400,597.27	X = 399,851.57	X = 398,829.78
BK = S47°52'55"E	BK = S40°37'15"E	BK = S04°06'53"E
AH = S40°37'15"E	AH = S04°32'31"E	AH = S66°11'54"E



CURVE 20

PI STA 107+76.23
Y = 2,524,813.59
X = 398,568.60
DELTA = 60°59'58" RT
D = 6°19'01"
T = 534.26
L = 965.63
R = 907.00
PC STA 102+41.97
Y = 2,524,324.77
X = 398,784.21
PT STA 112+07.61
Y = 2,524,862.00
X = 398,036.54
BK = S66°11'54"E
AH = S05°11'56"E

DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF
ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: ALIGNMENT PLAN
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 8
8 OF 110
FILE NO.

CURVE 1
PI STA 201+33.64
Y = 2,521,701.87
X = 401,774.29
DELTA = 22°4'50" RT
D = 39°07'55"
T = 29.39
L = 58.00
R = 146.42
PC STA 201+04.25
Y = 2,521,672.50
X = 401,773.35
PCC STA 201+62.25
Y = 2,521,729.33
X = 401,763.83
BK = N88°09'23"E
AH = S69°08'47"E

CURVE 2
PI STA 202+20.94
Y = 2,521,784.17
X = 401,742.94
DELTA = 2°11'24" RT
D = 1°51'58"
T = 58.69
L = 117.36
R = 3070.42
PCC STA 201+62.25
Y = 2,521,729.33
X = 401,763.83
PT STA 202+79.61
Y = 2,521,838.18
X = 401,719.97
BK = S69°08'46"E
AH = S66°57'21"E

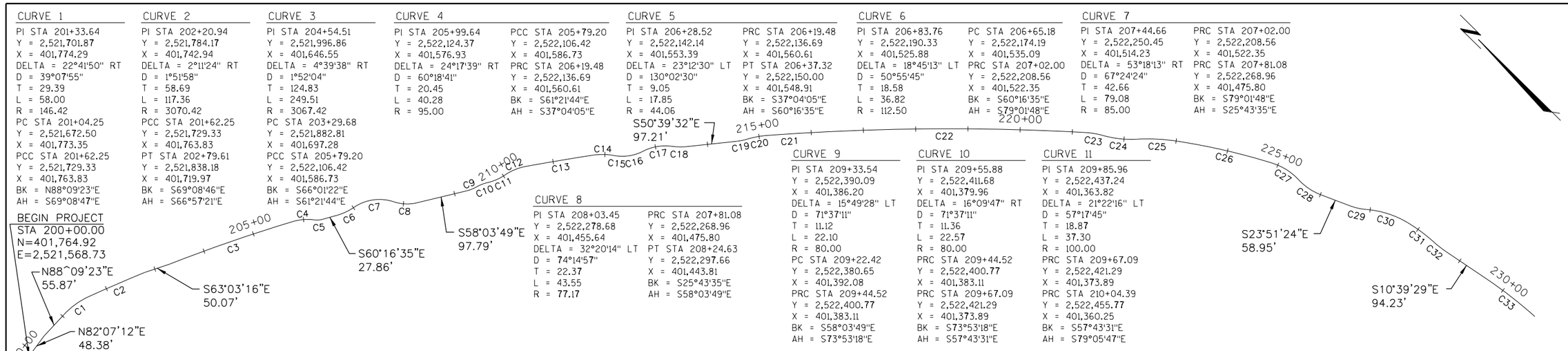
CURVE 3
PI STA 204+54.51
Y = 2,521,996.86
X = 401,646.55
DELTA = 4°39'38" RT
D = 1°52'04"
T = 124.83
L = 249.51
R = 3067.42
PC STA 203+29.68
Y = 2,521,882.81
X = 401,697.28
PCC STA 205+79.20
Y = 2,522,106.42
X = 401,586.73
BK = S66°01'22"E
AH = S61°21'44"E

CURVE 4
PI STA 205+99.64
Y = 2,522,124.37
X = 401,576.93
DELTA = 24°17'39" RT
D = 60°18'41"
T = 20.45
L = 40.28
R = 95.00
PCC STA 205+79.20
Y = 2,522,106.42
X = 401,586.73
PRC STA 206+19.48
Y = 2,522,136.69
X = 401,560.61
BK = S61°21'44"E
AH = S37°04'05"E

CURVE 5
PI STA 206+28.52
Y = 2,522,142.14
X = 401,553.39
DELTA = 23°12'30" LT
D = 130°02'30"
T = 9.05
L = 17.85
R = 44.06
PRC STA 206+19.48
Y = 2,522,136.69
X = 401,560.61
PT STA 206+37.32
Y = 2,522,150.00
X = 401,548.91
BK = S37°04'05"E
AH = S60°16'35"E

CURVE 6
PI STA 206+83.76
Y = 2,522,190.33
X = 401,525.88
DELTA = 18°45'13" LT
D = 50°55'45"
T = 18.58
L = 36.82
R = 112.50
PC STA 206+65.18
Y = 2,522,174.19
X = 401,535.09
PRC STA 207+02.00
Y = 2,522,208.56
X = 401,522.35
BK = S60°16'35"E
AH = S79°01'48"E

CURVE 7
PI STA 207+44.66
Y = 2,522,250.45
X = 401,514.23
DELTA = 53°18'13" RT
D = 67°24'24"
T = 42.66
L = 79.08
R = 85.00
PRC STA 207+02.00
Y = 2,522,208.56
X = 401,522.35
PRC STA 207+81.08
Y = 2,522,268.96
X = 401,475.80
BK = S79°01'48"E
AH = S25°43'35"E



CURVE 8
PI STA 208+03.45
Y = 2,522,278.68
X = 401,455.64
DELTA = 32°20'14" LT
D = 74°14'57"
T = 22.37
L = 43.55
R = 77.17
PRC STA 207+81.08
Y = 2,522,268.96
X = 401,475.80
PT STA 208+24.63
Y = 2,522,297.66
X = 401,443.81
BK = S25°43'35"E
AH = S58°03'49"E

CURVE 9
PI STA 209+33.54
Y = 2,522,390.09
X = 401,386.20
DELTA = 15°49'28" LT
D = 71°37'11"
T = 11.12
L = 22.10
R = 80.00
PC STA 209+22.42
Y = 2,522,380.65
X = 401,392.08
PRC STA 209+44.52
Y = 2,522,400.77
X = 401,383.11
BK = S58°03'49"E
AH = S73°53'18"E

CURVE 10
PI STA 209+55.88
Y = 2,522,411.68
X = 401,379.96
DELTA = 16°09'47" RT
D = 71°37'11"
T = 11.36
L = 22.57
R = 80.00
PRC STA 209+44.52
Y = 2,522,400.77
X = 401,383.11
PRC STA 209+67.09
Y = 2,522,421.29
X = 401,373.89
BK = S73°53'18"E
AH = S57°43'31"E

CURVE 11
PI STA 209+85.96
Y = 2,522,437.24
X = 401,363.82
DELTA = 21°22'16" LT
D = 57°17'45"
T = 18.87
L = 37.30
R = 100.00
PRC STA 209+67.09
Y = 2,522,421.29
X = 401,373.89
PRC STA 210+04.39
Y = 2,522,455.77
X = 401,360.25
BK = S57°43'31"E
AH = S79°05'47"E

CURVE 12
PI STA 210+25.77
Y = 2,522,476.77
X = 401,356.20
DELTA = 24°08'37" RT
D = 57°17'45"
T = 21.39
L = 42.14
R = 100.00
PRC STA 210+04.39
Y = 2,522,455.77
X = 401,360.25
PCC STA 210+46.53
Y = 2,522,494.28
X = 401,343.92
BK = S79°05'47"E
AH = S54°57'10"E

CURVE 13
PI STA 211+12.24
Y = 2,522,548.08
X = 401,306.19
DELTA = 1°41'40" RT
D = 1°17'22"
T = 65.71
L = 131.42
R = 4443.42
PCC STA 210+46.53
Y = 2,522,494.28
X = 401,343.92
PCC STA 211+77.94
Y = 2,522,600.73
X = 401,266.87
BK = S54°57'10"E
AH = S53°15'30"E

CURVE 14
PI STA 211+97.21
Y = 2,522,616.17
X = 401,255.35
DELTA = 18°53'40" RT
D = 49°28'49"
T = 19.27
L = 38.19
R = 115.80
PCC STA 211+77.94
Y = 2,522,600.73
X = 401,266.887
PRC STA 212+16.13
Y = 2,522,627.05
X = 401,239.44
BK = S53°15'30"E
AH = S34°21'50"E

CURVE 15
PI STA 212+24.31
Y = 2,522,631.67
X = 401,232.69
DELTA = 9°15'11" LT
D = 56°42'11"
T = 8.18
L = 16.32
R = 101.05
PRC STA 212+16.13
Y = 2,522,627.05
X = 401,239.44
PCC STA 212+32.45
Y = 2,522,637.31
X = 401,226.77
BK = S34°21'50"E
AH = S43°37'01"E

CURVE 16
PI STA 212+53.58
Y = 2,522,651.88
X = 401,211.48
DELTA = 28°19'16" LT
D = 68°25'05"
T = 21.13
L = 41.39
R = 83.74
PCC STA 212+32.45
Y = 2,522,637.31
X = 401,226.77
PRC STA 212+73.84
Y = 2,522,671.97
X = 401,204.93
BK = S43°37'01"E
AH = S71°56'17"E

CURVE 17
PI STA 213+04.04
Y = 2,522,700.69
X = 401,195.56
DELTA = 35°11'10" RT
D = 60°09'03"
T = 30.20
L = 58.50
R = 95.25
PRC STA 212+73.84
Y = 2,522,671.97
X = 401,204.93
PRC STA 213+32.34
Y = 2,522,718.76
X = 401,171.36
BK = S71°56'17"E
AH = S36°45'07"E

CURVE 18
PI STA 213+45.86
Y = 2,522,726.85
X = 401,160.53
DELTA = 13°54'25" LT
D = 51°40'06"
T = 13.52
L = 26.92
R = 110.89
PRC STA 213+32.34
Y = 2,522,718.76
X = 401,171.36
PT STA 213+59.25
Y = 2,522,737.31
X = 401,151.95
BK = S36°45'07"E
AH = S50°39'32"E

CURVE 19
PI STA 214+66.33
Y = 2,522,820.12
X = 401,084.07
DELTA = 10°44'27" LT
D = 54°34'03"
T = 9.87
L = 19.68
R = 105.00
PC STA 214+56.46
Y = 2,522,812.49
X = 401,090.33
PRC STA 214+76.15
Y = 2,522,828.79
X = 401,079.34
BK = S50°39'32"E
AH = S61°23'59"E

CURVE 20
PI STA 214+95.68
Y = 2,522,845.94
X = 401,069.99
DELTA = 12°26'57" RT
D = 31°59'39"
T = 19.53
L = 38.91
R = 179.08
PRC STA 214+76.15
Y = 2,522,828.79
X = 401,079.34
PCC STA 215+15.06
Y = 2,522,860.67
X = 401,057.17
BK = S61°23'59"E
AH = S48°57'02"E

CURVE 21
PI STA 215+56.51
Y = 2,522,891.93
X = 401,029.95
DELTA = 1°04'08" RT
D = 1°17'22"
T = 41.45
L = 82.89
R = 4443.42
PCC STA 215+15.06
Y = 2,522,860.67
X = 401,057.17
PCC STA 215+97.95
Y = 2,522,922.67
X = 401,002.15
BK = S48°57'02"E
AH = S47°52'55"E

CURVE 22
PI STA 218+62.36
Y = 2,523,118.80
X = 400,824.82
DELTA = 6°25'27" RT
D = 1°12'58"
T = 264.41
L = 528.26
R = 4711.42
PCC STA 215+97.95
Y = 2,522,922.67
X = 401,002.15
PCC STA 221+26.21
Y = 2,523,293.85
X = 400,626.67
BK = S47°52'55"E
AH = S41°27'28"E

CURVE 23
PI STA 221+42.55
Y = 2,523,304.67
X = 400,614.42
DELTA = 12°51'41" RT
D = 39°30'52"
T = 16.34
L = 32.55
R = 145.00
PCC STA 221+26.21
Y = 2,523,293.85
X = 400,626.67
PRC STA 221+58.76
Y = 2,523,312.49
X = 400,600.07
BK = S41°27'28"E
AH = S28°35'47"E

CURVE 24
PI STA 221+91.25
Y = 2,523,328.05
X = 400,571.54
DELTA = 19°15'48" LT
D = 29°55'15"
T = 32.50
L = 64.38
R = 191.49
PRC STA 221+58.76
Y = 2,523,312.49
X = 400,600.07
PRC STA 222+23.14
Y = 2,523,352.15
X = 400,549.73
BK = S28°35'47"E
AH = S47°51'35"E

CURVE 25
PI STA 222+64.18
Y = 2,523,382.58
X = 400,522.19
DELTA = 12°10'17" RT
D = 14°52'55"
T = 41.05
L = 81.79
R = 385.00
PRC STA 222+23.14
Y = 2,523,352.15
X = 400,549.73
PCC STA 223+04.92
Y = 2,523,406.53
X = 400,488.85
BK = S47°51'35"E
AH = S35°41'18"E

CURVE 26
PI STA 223+97.31
Y = 2,523,460.43
X = 400,413.81
DELTA = 8°19'32" RT
D = 4°30'49"
T = 92.39
L = 184.45
R = 1269.42
PCC STA 223+04.92
Y = 2,523,406.53
X = 400,488.85
PCC STA 224+89.38
Y = 2,523,502.89
X = 400,331.76
BK = S35°41'18"E
AH = S27°21'47"E

CURVE 27
PI STA 225+20.18
Y = 2,523,517.05
X = 400,304.41
DELTA = 29°59'57" RT
D = 49°50'21"
T = 30.80
L = 60.19
R = 114.96
PCC STA 224+89.38
Y = 2,523,502.89
X = 400,331.76
PRC STA 225+49.57
Y = 2,523,515.63
X = 400,273.63
BK = S27°21'47"E
AH = S2°38'11"W

CURVE 28
PI STA 225+75.65
Y = 2,523,514.43
X = 400,247.58
DELTA = 26°29'34" LT
D = 51°42'36"
T = 26.08
L = 51.23
R = 110.80
PRC STA 225+49.57
Y = 2,523,515.63
X = 400,273.63
PT STA 226+00.80
Y = 2,523,524.98
X = 400,223.72
BK = S2°38'11"W
AH = S23°51'24"E

CURVE 29
PI STA 226+76.45
Y = 2,523,555.58
X = 400,154.54
DELTA = 16°29'26" LT
D = 49°42'32"
T = 16.70
L = 33.17
R = 115.26
PC STA 226+59.75
Y = 2,523,548.82
X = 400,169.81
PRC STA 226+92.93
Y = 2,523,566.39
X = 400,141.81
BK = S23°51'24"E
AH = S40°20'50"E

CURVE 30
PI STA 227+35.48
Y = 2,523,593.94
X = 400,109.37
DELTA = 26°45'56" RT
D = 32°02'00"
T = 42.55
L = 83.56
R = 178.86
PRC STA 226+92.93
Y = 2,523,566.39
X = 400,141.81
PCC STA 227+76.48
Y = 2,523,603.94
X = 400,068.01
BK = S40°20'50"E
AH = S13°34'54"E

CURVE 31
PI STA 228+06.67
Y = 2,523,611.02
X = 400,038.67
DELTA = 10°48'32" RT
D = 17°57'22"
T = 30.19
L = 60.20
R = 319.09
PCC STA 227+76.48
Y = 2,523,603.94
X = 400,068.01
PRC STA 228+36.68
Y = 2,523,612.48
X = 400,008.51
BK = S13°34'54"E
AH = S02°46'22"E

CURVE 32
PI STA 228+52.60
Y = 2,523,613.25
X = 399,992.61
DELTA = 7°53'07" LT
D = 24°47'34"
T = 15.93
L = 31.81
R = 231.10
PRC STA 228+36.68
Y = 2,523,612.48
X = 400,008.51
PT STA 228+68.48
Y = 2,523,616.20
X = 399,976.95
BK = S2°46'22"E
AH = S10°39'29"E

CURVE 33
PI STA 230+20.92
Y = 2,523,644.39
X = 399,827.15
DELTA = 7°48'26" RT
D = 6°43'00"
T = 58.21
L = 116.23
R = 853.03
PC STA 229+62.71
Y = 2,523,633.63
X = 399,884.35
PCC STA 230+78.95
Y = 2,523,647.29
X = 399,769.01
BK = S10°39'29"E
AH = S02°51'03"E

CURVE 34
PI STA 230+96.45
Y = 2,523,648.16
X = 399,751.53
DELTA = 21°40'54" RT
D = 62°40'53"
T = 17.50
L = 34.59
R = 91.41
PCC STA 230+78.95
Y = 2,523,647.29
X = 399,769.01
PRC STA 231+13.54
Y = 2,523,642.51
X = 399,734.96
BK = S02°51'03"E
AH = S18°49'51"W

CURVE 35
PI STA 231+22.54
Y = 2,523,639.60
X = 399,726.44
DELTA = 23°05'12" LT
D = 130°02'30"
T = 9.00
L = 17.75
R = 44.06
PRC STA 231+13.54
Y = 2,523,642.51
X = 399,734.96
PT STA 231+31.29
Y = 2,523,640.27
X = 399,717.47
BK = S18°49'51"W
AH = S04°15'21"E

CURVE 36
PI STA 231+78.33
Y = 2,523,643.76
X = 399,670.56
DELTA = 22°49'23" LT
D = 130°13'04"
T = 8.88
L = 17.53
R = 44.00
PC STA 231+69.44
Y = 2,523,643.10
X = 399,679.42
PRC STA 231+86.97
Y = 2,523,647.81
X = 399,662.66
BK = S04°15'21"E
AH = S27°04'45"E

CURVE 37
PI STA 232+07.36
Y = 2,523,657.09
X = 399,644.51
DELTA = 25°08'43" RT
D = 62°41'13"
T = 20.38
L = 40.11
R = 91.40
PRC STA 231+86.97
Y = 2,523,647.81
X = 399,662.66
PT STA 232+27.08
Y = 2,523,657.77
X = 399,624.13
BK = S27°04'45"E
AH = S01°56'01"E

CURVE 38
PI STA 232+95.83
Y = 2,523,662.70
X = 399,555.76
DELTA = 2°13'11" LT
D = 6°13'50"
T = 17.81
L = 35.62
R = 919.58
PC STA 232+78.01
Y = 2,523,661.42
X = 399,573.52
PRC STA 233+13.64
Y = 2,523,664.66
X = 399,538.05
BK = S04°06'53"E
AH = S06°20'03"E

CURVE 39
PI STA 233+55.01
Y = 2,523,669.23
X = 399,496.93
DELTA = 30°29'45" RT
D = 37°44'52"
T = 41.38
L = 80.79
R = 151.79
PRC STA 233+13.64
Y = 2,523,664.66
X = 399,538.05
PRC STA 233+94.43
Y = 2,523,652.29
X = 399,459.18
BK = S06°20'03"E
AH = S24°09'41"W

CURVE 40
PI STA 234+46.01
Y = 2,523,631.18
X = 399,412.11
DELTA = 13°20'53" LT
D = 12°59'47"
T = 51.59
L = 102.71
R = 440.86
PRC STA 233+94.43
Y = 2,523,652.29
X = 399,459.18
PT STA 234+97.13
Y = 2,523,621.50
X = 399,361.44
BK = S24°09'41"W
AH = S10°48'48"W

CURVE 41
PI STA 236+62.88
Y = 2,523,590.40
X = 399,198.63
DELTA = 78°07'46" LT
D = 42°37'29"
T = 109.10
L = 183.30
R = 134.42
PC STA 235+53.78
Y = 2,523,610.87
X = 399,305.79
PT STA 237+37.08
Y = 2,523,691.06
X = 399,156.55
BK = S10°48'48"W
AH = S67°18'58"E

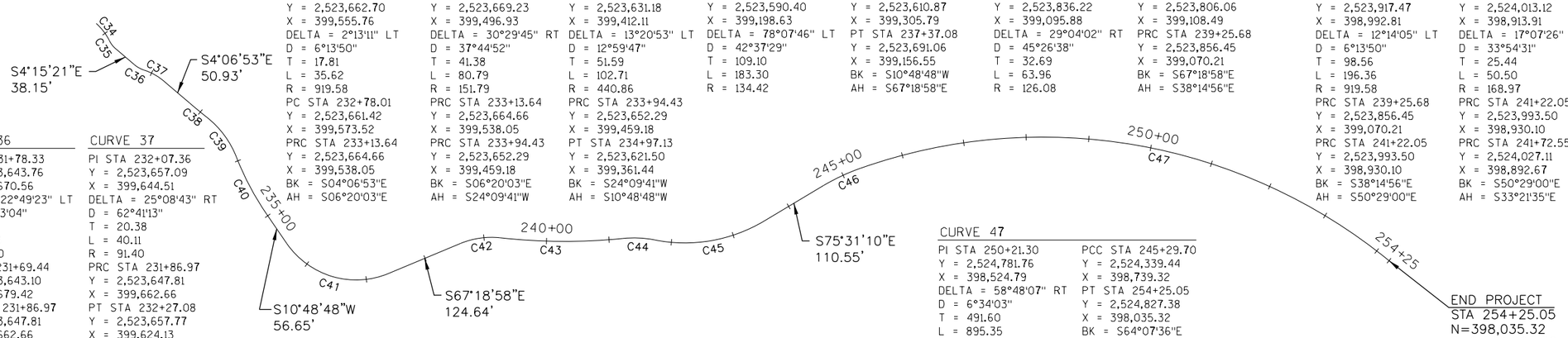
CURVE 42
PI STA 238+94.41
Y = 2,523,836.22
X = 399,095.88
DELTA = 29°04'02" RT
D = 45°26'38"
T = 32.69
L = 63.96
R = 126.08
PC STA 238+61.72
Y = 2,523,806.06
X = 399,108.49
PRC STA 239+25.68
Y = 2,523,856.45
X = 399,070.21
BK = S67°18'58"E
AH = S38°14'56"E

CURVE 43
PI STA 240+24.24
Y = 2,523,917.47
X = 398,992.81
DELTA = 12°14'05" LT
D = 6°13'50"
T = 98.56
L = 196.36
R = 919.58
PRC STA 239+25.68
Y = 2,523,856.45
X = 399,070.21
PRC STA 241+22.05
Y = 2,523,993.50
X = 398,930.10
BK = S38°14'56"E
AH = S50°29'00"E

CURVE 44
PI STA 241+47.49
Y = 2,524,013.12
X = 398,913.91
DELTA = 17°07'26" RT
D = 33°54'31"
T = 25.44
L = 50.50
R = 168.97
PRC STA 241+22.05
Y = 2,523,993.50
X = 398,930.10
PRC STA 241+72.55
Y = 2,524,027.11
X = 398,892.67
BK = S50°29'00"E
AH = S33°21'35"E

CURVE 45
PI STA 242+67.85
Y = 2,524,079.52
X = 398,813.07
DELTA = 42°09'35" LT
D = 23°10'26"
T = 95.30
L = 181.93
R = 247.24
PRC STA 241+72.55
Y = 2,524,027.11
X = 398,892.67
PT STA 243+54.47
Y = 2,524,171.80
X = 398,789.23
BK = S33°21'35"E
AH = S75°31'10"E

CURVE 46
PI STA 244+97.47
Y = 2,524,310.25
X = 398,753.48
DELTA = 11°23'34" RT
D = 17°36'55"
T = 32.44
L = 64.68
R = 325.26
PC STA 244+65.02
Y = 2,524,278.83
X = 398,761.59
PCC STA 245+29.70
Y = 2,524,339.44
X = 398,739.32
BK = S75°31'10"E
AH = S64°07'36"E

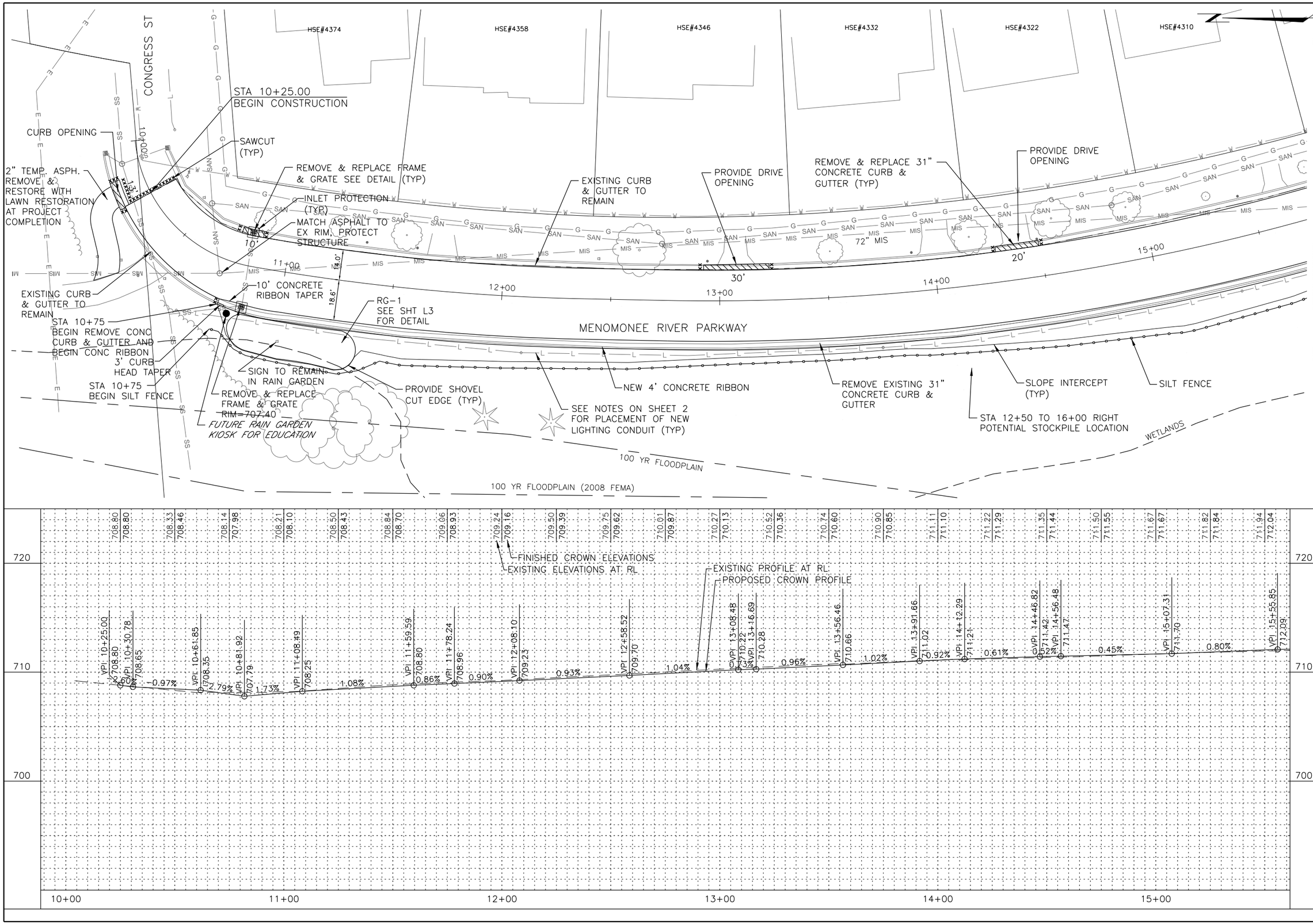


CURVE 47
PI STA 250+21.30
Y = 2,524,781.76
X = 398,524.79
DELTA = 58°48'07" RT
D = 6°34'03"
T = 491.60
L = 895.35
R = 872.42
PCC STA 245+29.70
Y = 2,524,339.44
X = 398,739.32
PT STA 254+25.05
Y = 2,524,827.38
X = 398,035.32
BK = S64°07'36"E
AH = S5°19'29"E

DATE: | REVISION DESCRIPTION: | BY:

MILWAUKEE COUNTY DEPARTMENT OF
ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: ALIGNMENT PLAN – PATH
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 9
9 OF 110
FILE NO.

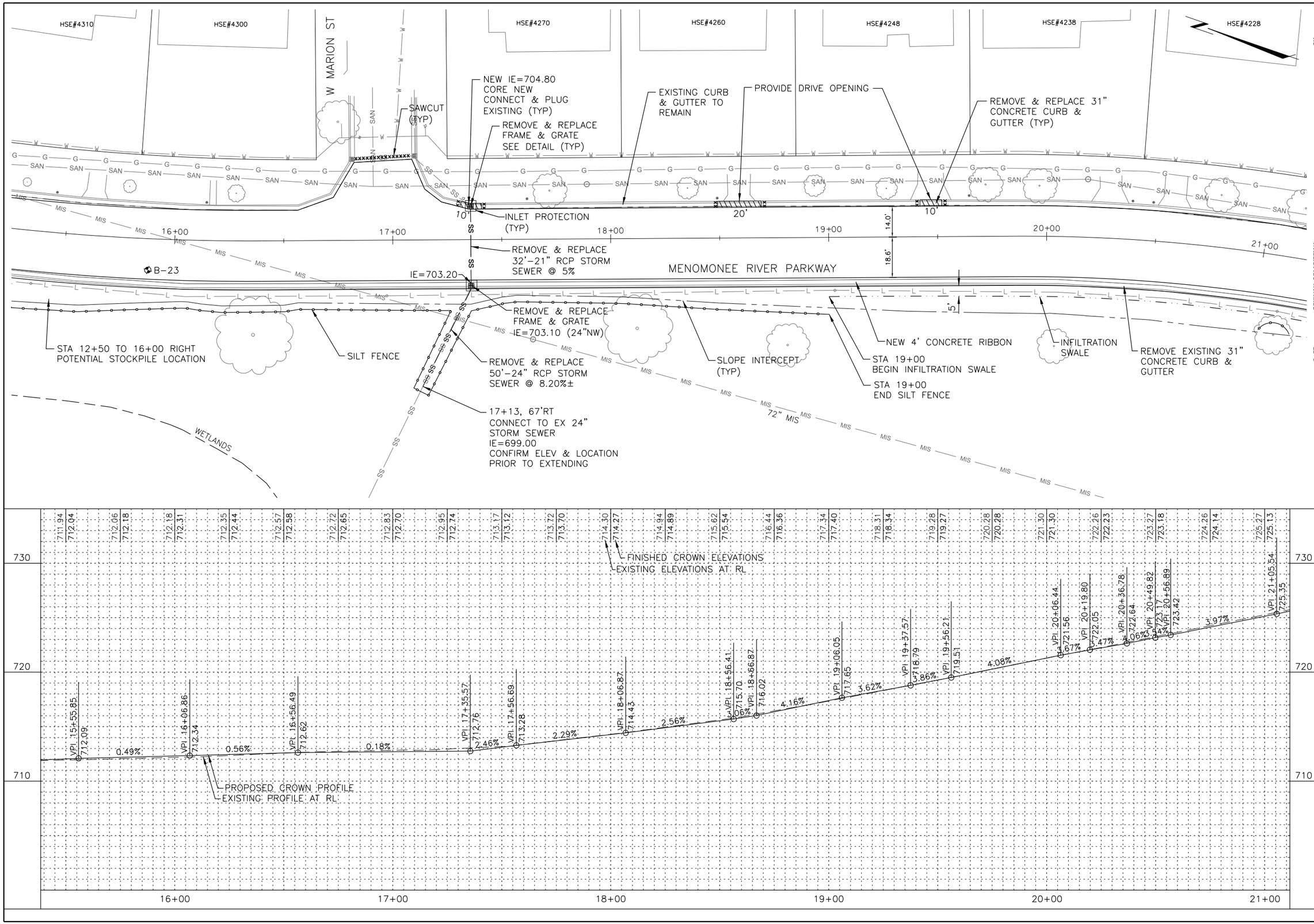


MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DATE: REVISION DESCRIPTION: BY:

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14

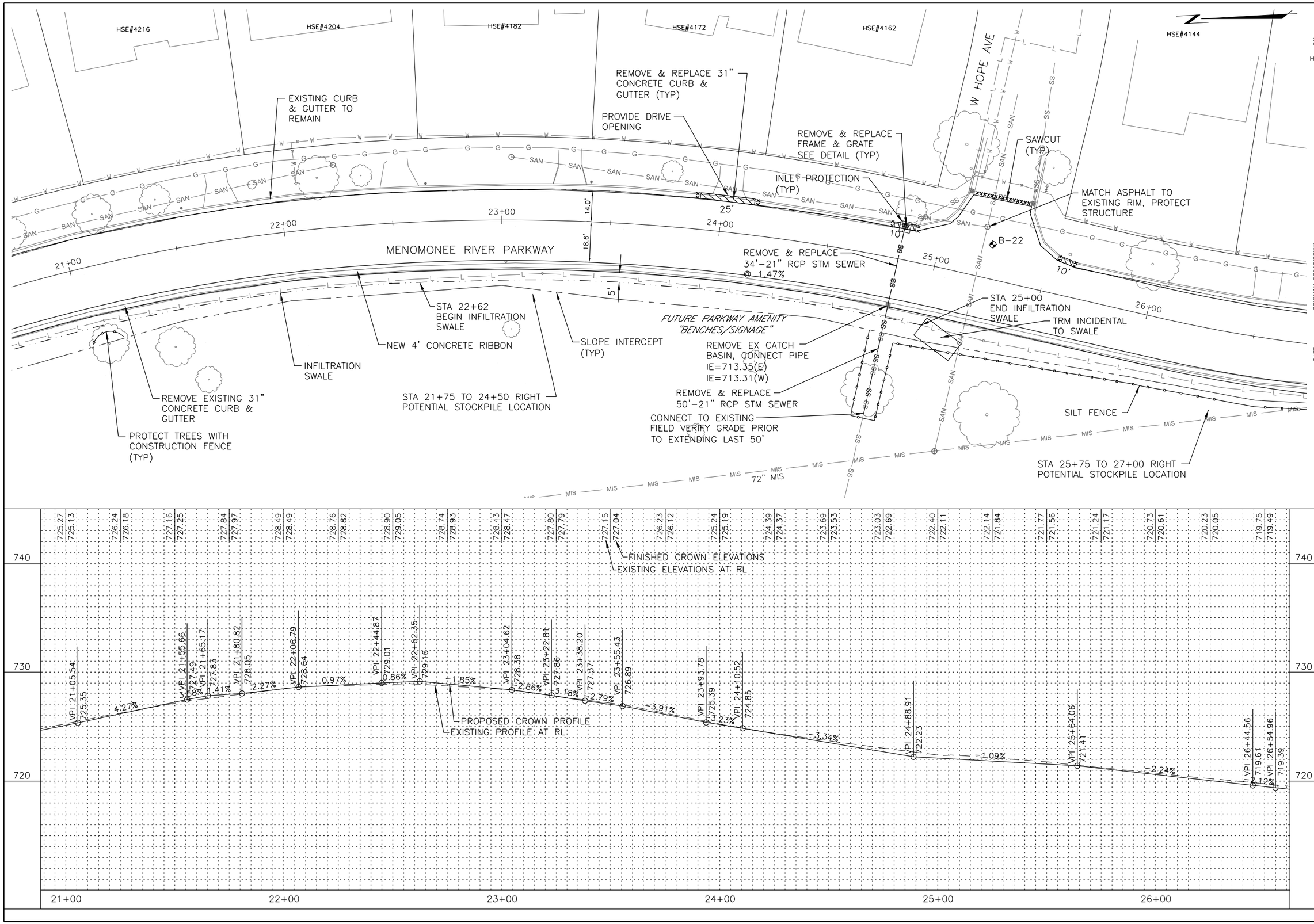
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 10+00 TO 15+50
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 10
10 OF 110
FILE NO.



DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF
ADMINISTRATIVE SERVICES
Architecture, Engineering &
Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

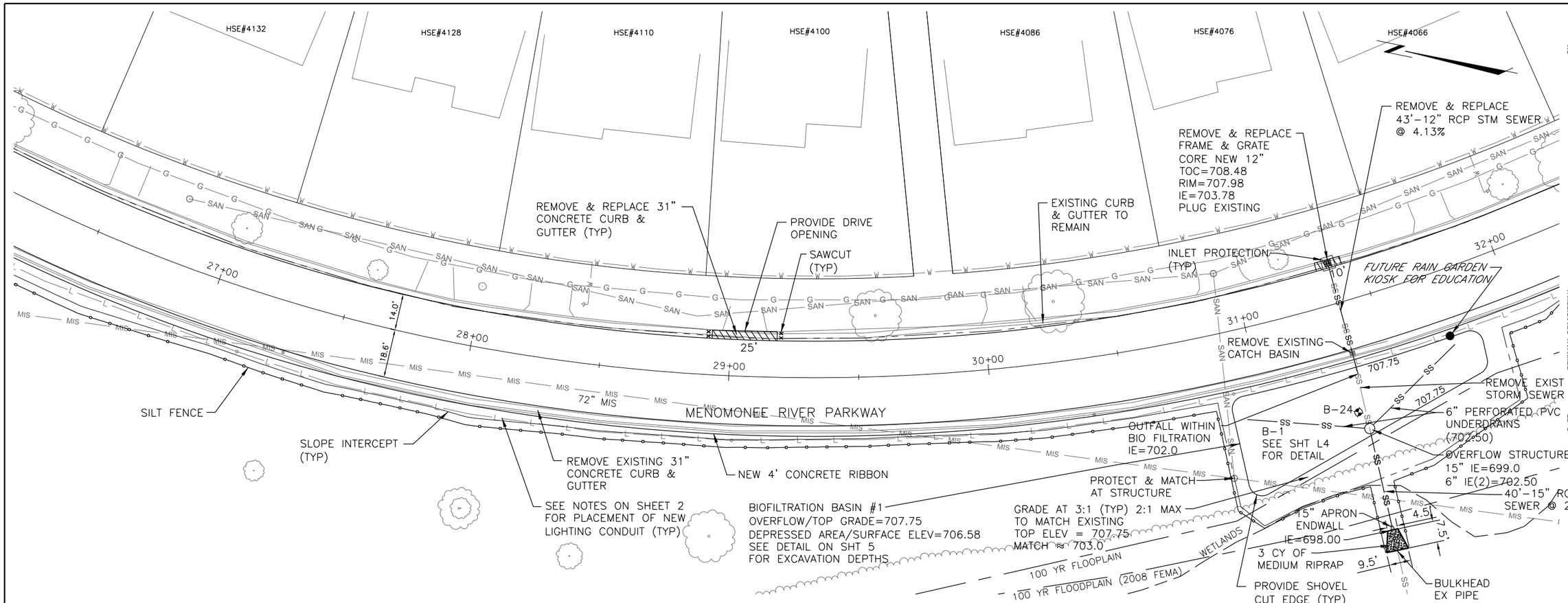
DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=40'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PLAN & PROFILE 15+50 TO 21+00
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 11	11 OF 110
FILE NO.	

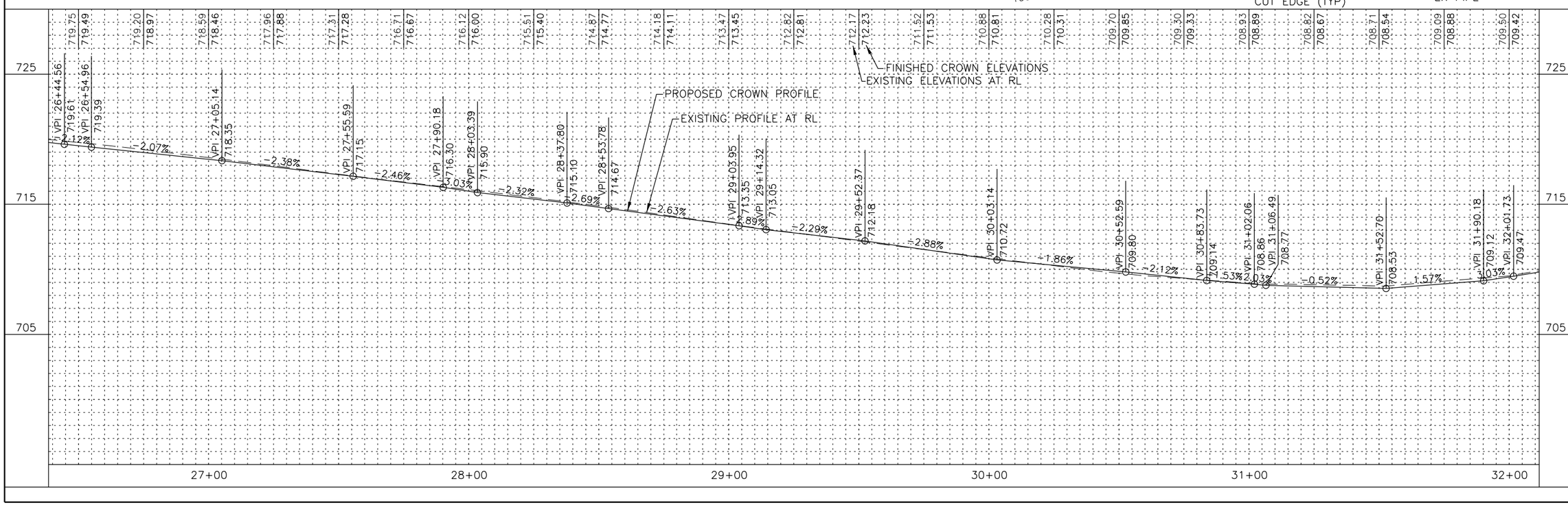


MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DATE: REVISION DESCRIPTION: BY:

DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=40'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	
SITE NO.	BUILDING NO.
SHEET DESCRIPTION: PLAN & PROFILE 21+00 TO 26+50	
PROJECT NO. P280-13626	
SHEET NO. 12	12 OF 110
FILE NO.	

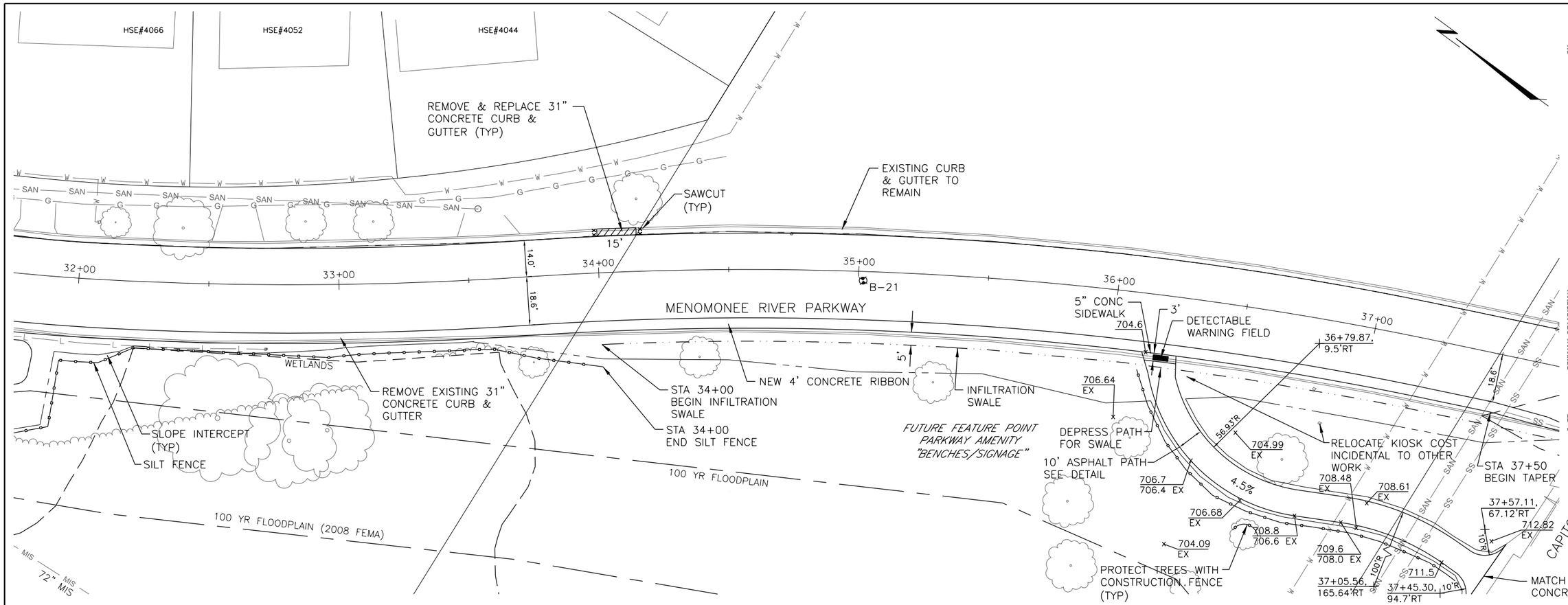




MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DATE:	REVISION DESCRIPTION:	BY:

DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=40'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PLAN & PROFILE 26+50 TO 32+00
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 13	13 OF 110
FILE NO.	



DATE: | REVISION DESCRIPTION: | BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=40'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	
SITE NO.	BUILDING NO.
SHEET DESCRIPTION: PLAN & PROFILE 32+00 TO 37+50	
PROJECT NO. P280-13626	
SHEET NO. 14	14 OF 110
FILE NO.	

HSE#11001

CAPITOL DRIVE OVERPASS

4' CONCRETE RIBBON

REMOVE & REPLACE FRAME & GRATE SEE DETAIL (TYP)

REMOVE & REPLACE 31" CONCRETE CURB & GUTTER (TYP)

100 YR FLOODPLAIN (2008 FEMA)

10' CONCRETE RIBBON TAPER

END CONCRETE RIBBON

3' CURB HEAD TAPER

INLET PROTECTION (TYP)

37+50 BEGIN TAPER

INFILTRATION SWALE

REMOVE & REPLACE CB & RECONNECT 15" E & N
IE=693.46
RIM=699.51
NO CURB HEAD

EXISTING CURB & GUTTER TO REMAIN

REMOVE & REPLACE FRAME & GRATE
TOC=697.26
RIM=696.76

SAWCUT (TYP)

697.34 TOC

REMOVE & REPLACE FRAME & GRATE
TOC=697.08
RIM=696.58

697.34 TOC

NEW 31" CONCRETE CURB & GUTTER

STA 40+50.00
END 31" CONCRETE CURB & GUTTER
BEGIN 4' CONC RIBBON

STA 39+93.5
BEGIN 31" CONCRETE CURB & GUTTER TYPE D

STA 40+50
BEGIN BASE BID

NEW 31" CONCRETE CURB & GUTTER TYPE D

10' CONCRETE RIBBON TAPER

STA 40+50
BEGIN SILT FENCE

3' CURB HEAD TAPER

100 YR FLOODPLAIN

MENOMONEE RIVER PARKWAY

B-20

REMOVE EXIST CATCH BASIN
NEW CATCH BASIN
42+51.6, 24.58'LT
TOC=700.90
RIM=700.40
IE=695.68

REMOVE & REPLACE
15'-12" RCP STM SEWER
SPOT REPLACEMENT
IE=694.70± FIELD VERIFY

5" CONC SIDEWALK

DETECTABLE WARNING FIELD

SILT FENCE

NEW 4' CONCRETE RIBBON

SLOPE INTERCEPT (TYP)

REMOVE EXIST CATCH BASIN, CONNECT PIPE
IE=694.27(12"S)
FIELD VERIFY ELEV

72" MIS

38+00 39+00 40+00 41+00 42+00 43+00

FINISHED CROWN ELEVATIONS
EXISTING ELEVATIONS AT RL

VPI 37+51.20 699.54
-2.04%
VPI 38+01.15 698.52
-0.88%
VPI 38+51.22 698.08
-0.80%
VPI 38+99.85 697.69
-0.50%
VPC 39+50.00 697.44
100.00'
K: 37.04
VPI 39+90.74 697.22
VPT 40+50.00 697.69
VPI 40+00.00 696.89
1.60%
VPC 42+75.00 701.29
50.00'
K: 45.45
VPI 43+00.00 701.69

EXISTING PROFILE AT RL
PROPOSED CROWN PROFILE

710 700 690

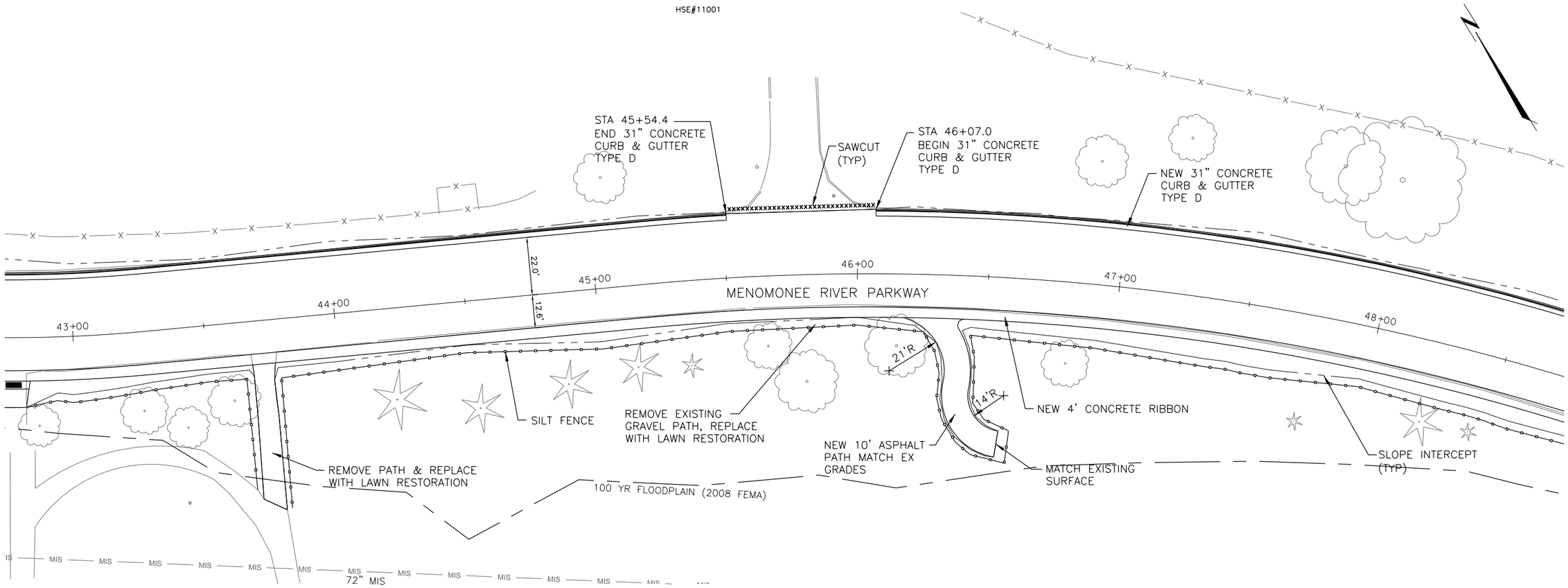
MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

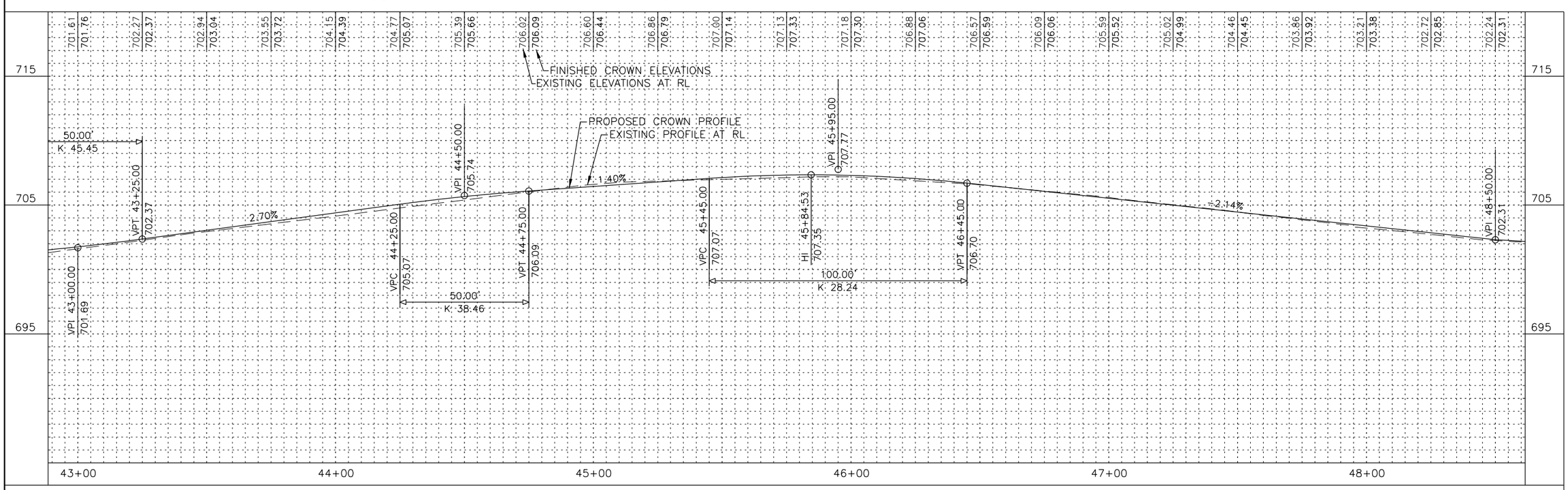
DATE: REVISION DESCRIPTION: BY:

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 37+50 TO 43+00
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 15
15 OF 110
FILE NO.

HSE#11001





DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF
ADMINISTRATIVE SERVICES
Architecture, Engineering &
Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 43+00 TO 48+50
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 16
16 OF 110
FILE NO.

HSE#11001

REMOVE EX CB
NEW CB 50+51.6, 24.58'LT
TOC=699.97
RIM=699.47
IE=694.55 (12"S)

NEW 31" CONCRETE
CURB & GUTTER
TYPE D

REMOVE & REPLACE
38'-12" RCP STM
SEWER @ 1.50%

DEPRESS CURB HEAD
& MATCH AT RAMP

72" MIS

B-19

MENOMONEE RIVER PARKWAY

22.0'

12.6'

49+00 50+00 51+00 52+00 53+00 54+00

INLET PROTECTION
(TYP)

NEW 4' CONCRETE RIBBON

100 YR FLOODPLAIN (2008 FEMA)

SILT FENCE

51+67.8 TO 51+79.8
12'-15" RCP STM SEWER
SPOT REPLACEMENT
CONNECT TO EXISTING
IE=692.5±
FIELD VERIFY

SLOPE INTERCEPT
(TYP)

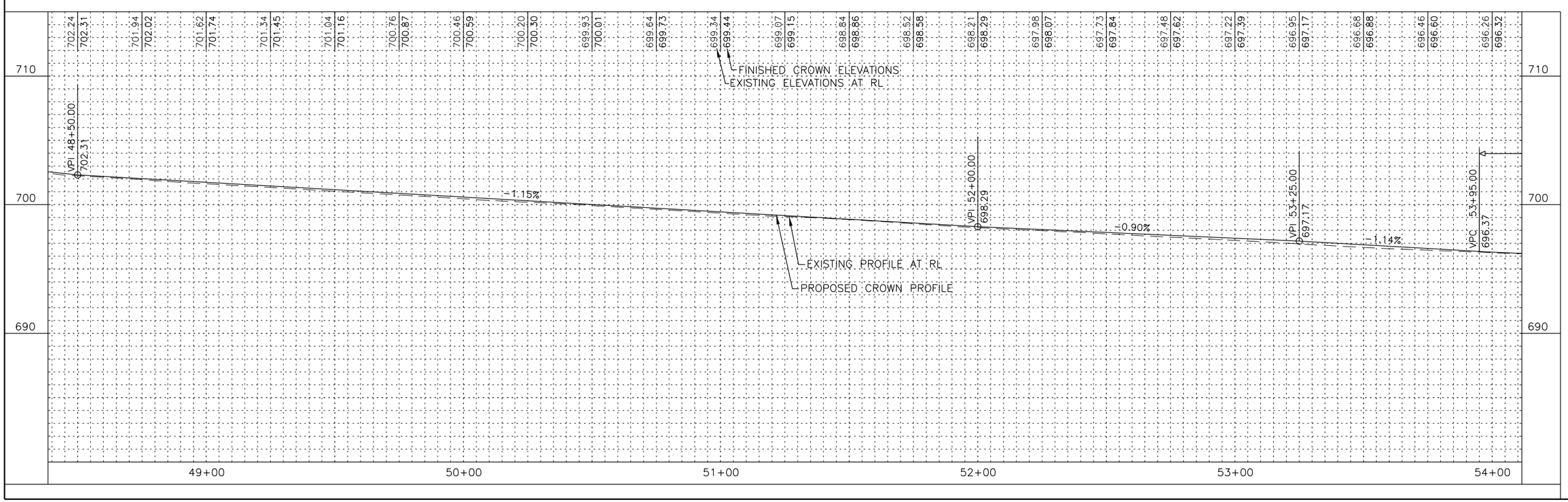
FUTURE RAIN GARDEN-
KIOSK FOR EDUCATION

WETLANDS

EDGE OF WATER

100 YR FLOODPLAIN

REMOVE EX CB
NEW CB 50+51.4, 14.6'RT
RIM=699.78
IE=693.98 (15"NE)
IE=693.05 (15"SE)
IE=695.17 (6"NE-RECONNECT)
FIELD VERIFY & CONNECT
15" E



DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF
ADMINISTRATIVE SERVICES
Architecture, Engineering &
Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 48+50 TO 54+00
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 17
17 OF 110
FILE NO.

HSE#11001

INLET PROTECTION (TYP)

REMOVE & REPLACE 40'-15" RCP STM SEWER @ 0.48%

REMOVE EX CB
NEW CB 54+51.3, 24.58'LT
TOC=695.97
RIM=695.47
IE=690.17 (15"NE&SW)

RELAY 8'-21" RCP STM SEWER RECONNECT WITH 21" CONC FITTING TO EX 21" STORM
IE=689.40

696.10 TOC

0.50%

0.50%

2.3%

696.09 TOC

54+00

55+00

56+00

57+00

58+00

NEW 31" CONCRETE CURB & GUTTER TYPE D

SAWCUT (TYP)

CROSSWALK PROPOSED BY THE DOT

STA 57+32±
END CONSTRUCTION
CONTRACTOR TO MATCH DOT LIMITS CURRENTLY UNDER CONSTRUCTION

10' CONCRETE RIBBON TAPER

5" CONC SIDEWALK 5' WIDE

22.0'

12.6'

695.60

ADJUST MH +0.2'
RECONNECT 15" N
IE=689.97

RG-2
SEE SHT L5 FOR DETAIL

B-25

MENOMONEE RIVER PARKWAY

56+82
BEGIN CROWN LINE TAPER

STA 57+33
END SILT FENCE

REMOVE EX CB
REMOVE STM SEWER PIPE

WETLANDS

PROVIDE SHOVEL CUT EDGE (TYP)

EDGE OF WATER

SILT FENCE

NEW 4' CONCRETE RIBBON

SLOPE INTERCEPT (TYP)

MAYFAIR ROAD (STH 100)

100 YR FLOODPLAIN (2008 FEMA)

100 YR FLOODPLAIN

696.26 696.32 696.15 696.12 696.09 696.05 696.14 696.11 696.34 696.29 696.56 696.52 696.78 696.75 696.98 696.97 697.16 697.10 697.34 697.23 697.49 697.37 697.55 697.50 697.68 697.63 697.65 697.76

FINISHED CROWN ELEVATIONS

EXISTING ELEVATIONS AT RL

710

700

690

100.00'

K: 48.98

VPC 53+95.00
696.37

LO 54+50.92
696.05

VPT 54+95.00
696.25

0.90%

VPI 55+75.00
696.97

0.53%

VPI 57+32.53
697.80

VPI 54+45.00
695.80

EXISTING PROFILE AT RL

PROPOSED CROWN PROFILE

54+00

55+00

56+00

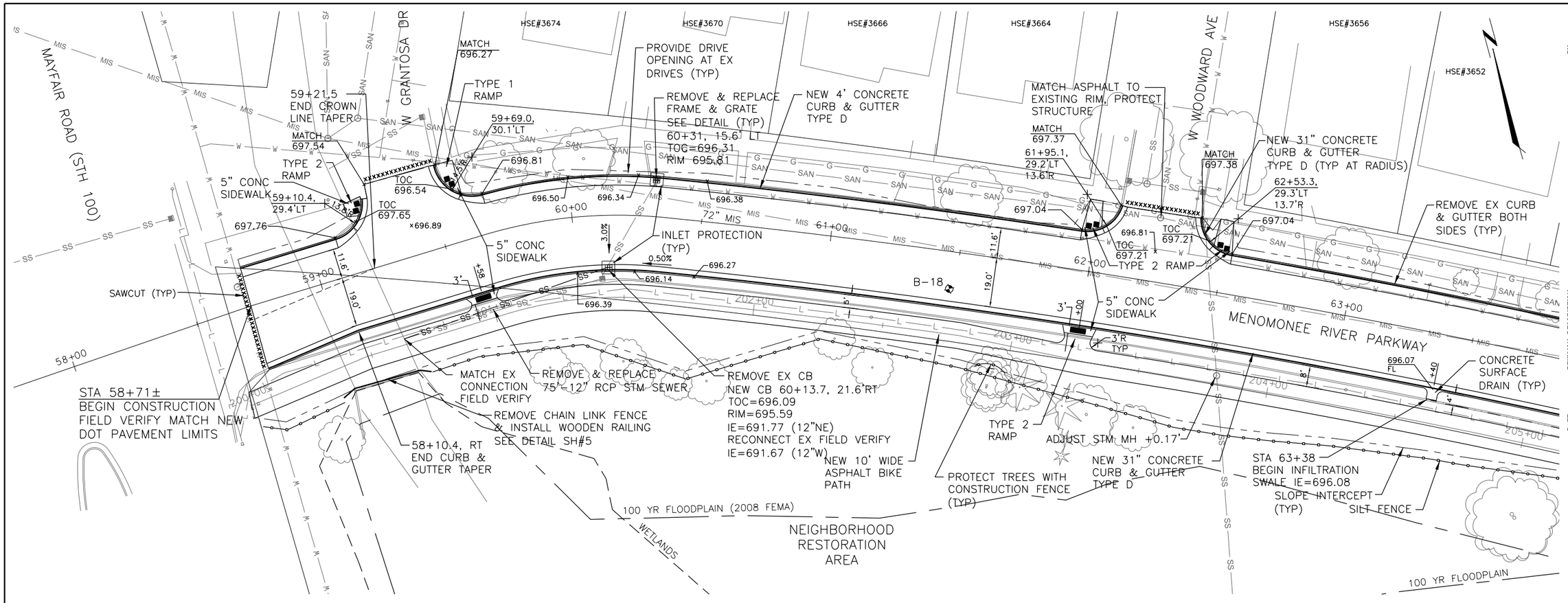
57+00

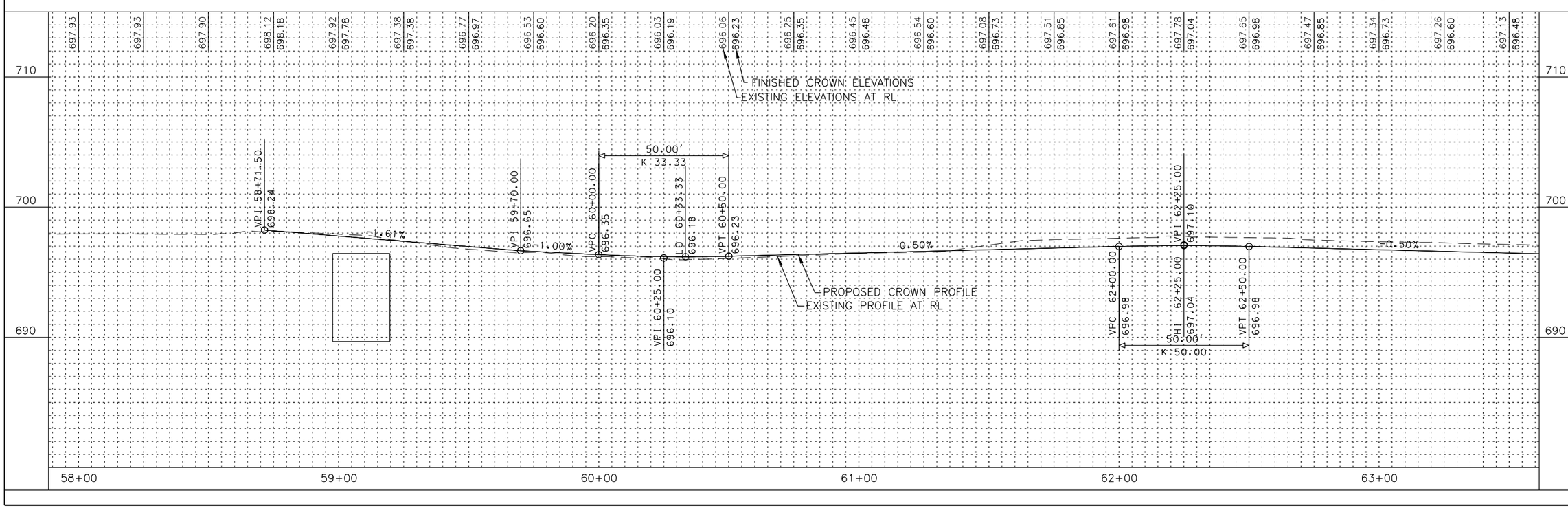
MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DATE: REVISION DESCRIPTION: BY:

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 54+00 TO 57+50
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 18
18 OF 110
FILE NO.





MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DATE: REVISION DESCRIPTION: BY:

DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=40'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PLAN & PROFILE 58+00 TO 63+50
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 19	19 OF 110
FILE NO.	

HSE#3652 HSE#3648 HSE#3642 HSE#3634 HSE#3630 HSE#3626 HSE#3622 HSE#3612

W STEWART AVE

W HILLSIDE AVE

ADJUST SAN MH-CITY, -0.56'

REMOVE & REPLACE 20'-12" RCP STM SEWER @ 0.50%

MATCH 696.13

REMOVE & REPLACE FRAME & GRATE SEE DETAIL (TYP) TOC=695.67 RIM=695.17

64+97.4, 34.6'LT

695.89

19.9'R

SAWCUT (TYP)

ADJUST STM MH, -0.65'

MATCH 696.43

REMOVE & REPLACE 20'-12" RCP STM SEWER @ 0.50%

65+66.0, 35.1'LT

INLET PROTECTION (TYP)

695.76

19.5'R

TOC LP 695.67

TOC LP 695.67

REMOVE & REPLACE 73'-18" RCP STM SEWER @ 0.50%

695.36

REMOVE & REPLACE FRAME & GRATE TOC=695.67 RIM=695.17

ADJUST SAN MH BY OTHERS, -1.36'

MATCH ASPHALT TO EXISTING RIM, PROTECT STRUCTURE

PROVIDE DRIVE OPENING AT EX DRIVES (TYP)

NEW 4' CONCRETE CURB & GUTTER TYPE D

MATCH 697.56

68+05.6, 29.1'LT

13.6'R

697.11

696.84

TOC 697.34

MATCH 697.70

NEW 31" CONCRETE CURB & GUTTER TYPE D (TYP AT RADIUS)

68+63.2, 29.0'LT

13.4'R

696.90

TOC 697.30

72" MIS

64+00

65+00

66+00

67+00

68+00

69+00

72" MIS

63+40

696.07 FL

8'

4'

INFILTRATION SWALE (TYP)

NEW 31" CONCRETE CURB & GUTTER TYPE D

NEW 31" CONCRETE RIBBON REMOVE EX CB

STA 65+62 END CONC RIBBON BEGIN 31" CONC CURB & GUTTER

STA 66+40 END INFILTRATION SWALE

19.0'

67+35

696.15 FL

CONCRETE SURFACE DRAIN (TYP)

MENOMONEE RIVER PARKWAY

NO GRADING IN THIS AREA

205+00

206+00

207+00

208+00

209+00

210+00

696.20

696.00

695.60

695.30

695.13

695.13

RG-3 SEE SHT L7 FOR DETAIL

695.00

695.00

695.83

695.80

695.80

696.00

695.80

RG-4 SEE SHT L8 FOR DETAIL

695.80

REMOVE TREE (TYP)

STA 64+90 END 31" CONC CURB & GUTTER, 3' CURB HEAD TAPER BEGIN CONC RIBBON

B-2 SEE SHT L6 & L7 FOR DETAIL

694.70

B-26

OUTFALL WITHIN BIO-FILTRATION IE=690.00

SAVE 42" OAK TREE

NEW 31" CONCRETE CURB & GUTTER TYPE D

BIOFILTRATION BASIN #2 OVERFLOW/TOP GRADE=694.80 DEPRESSED AREA/SURFACE ELEV=694.10 SEE DETAIL ON SHT 5 FOR EXCAVATION DEPTHS

6" UNDERDRAIN IE=691.50

694.70

6" UNDERDRAIN IE=691.50

FILTER BAG PLACE IN UPLAND AREA

FUTURE RAIN GARDEN KIOSK FOR EDUCATION

100 YR FLOODPLAIN

NEW 10' WIDE ASPHALT BIKE PATH

MATCH AT 3:1 FROM 694.80 TO EXISTING

OVERFLOW STRUCTURE RIM=694.70 IE=689.0 (18") IE=691.50 (6")

SILT FENCE

WETLAND

4.5'

REMOVE & REPLACE 150'-18" RCP STM SEWER @ 0.37%

18" APRON ENDWALL

MATCH EX IE=688.45±

REMOVE STM SEWER PIPE

SLOPE INTERCEPT (TYP)

PROVIDE SHOVEL CUT EDGE (TYP)

SEE NOTES ON SHEET 2 FOR PLACEMENT OF NEW LIGHTING CONDUIT (TYP)

PROTECT TREES WITH CONSTRUCTION FENCE (TYP)

100 YR FLOODPLAIN (2008 FEMA)

WETLAND

9.5'

7.5'

EDGE OF WATER

COFFER DAM

DEWATER COFFER DAM AREA PUMP INTO TYPE 1 GEOTEXTILE FILTER BAG LOCATED UPLAND ON FLAT AREA; CLEAN SEDIMENT FROM BAG DAILY

3 CY OF MEDIUM RIPRAP

FROM STA 207+25 TO STA 207+50 SLOPE BIKE PATH TO ROAD.

FILTER BAG & COFFER DAM COST INCIDENTAL TO OTHER WORK

697.13 696.48 697.03 696.35 696.92 696.23 696.82 696.10 696.67 695.98 696.53 695.85 696.47 695.73 696.53 695.60 696.46 695.57 696.47 695.66 696.55 695.79 696.72 695.92 696.83 696.05 696.80 696.18 696.92 696.38 697.17 696.56 697.30 696.68 697.44 696.81 697.50 696.93 697.62 697.00 697.50 696.88 697.22 696.63 696.99 696.38

FINISHED CROWN ELEVATIONS

EXISTING ELEVATIONS AT RL

710

700

690

50.00'

K 48.95

VPC 65+20.00 695.63

LO 65+44.48 695.56

VPT 65+70.00 695.63

0.50%

VPI 65+45.00 695.50

0.52%

EXISTING PROFILE AT RL

PROPOSED CROWN PROFILE

VPI 66+85.00 696.23

-1.00%

VPI 67+10.00 696.48

0.50%

VPC 68+05.00 696.96

HI 68+21.67 697.00

0.00'

K 33.33

VPI 68+30.00 697.08

VPT 68+55.00 696.83

-1.00%

64+00 65+00 66+00 67+00 68+00 69+00

DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section

CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG

CHECKED BY: TH

SCALE: 1"=40'

DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY

SHEET DESCRIPTION: PLAN & PROFILE 63+50 TO 69+00

SITE NO.

BUILDING NO.

PROJECT NO. P280-13626

SHEET NO. 20

20 OF 110

FILE NO.

HSE#3612 HSE#3606 HSE#3602 HSE#10367 HSE#3554 HSE#3546

W PARK RIDGE AVE

W SUNSET AVE

MENOMONEE RIVER PARKWAY

MATCH ASPHALT TO EXISTING RIM, PROTECT STRUCTURE

REMOVE & REPLACE 20'-12" RCP STM @ 0.50%, MATCH EXISTING INVERTS

3" PVC CONDUIT & REBAR AT ENDS (FOR FUTURE FLASHERS)

INLET PROTECTION (TYP)

PROVIDE DRIVE OPENING AT EX DRIVES (TYP)

REMOVE & REPLACE FRAME & GRATE SEE DETAIL (TYP) TOC=694.14

ADJUST STM MH -0.38'

REMOVE & REPLACE 20'-12" RCP STM @ 0.50%, MATCH EXISTING INVERTS

SAN MH ADJUST BY OTHERS, -1.13'

REMOVE & REPLACE FRAME & GRATE TOC=694.14

40'-12" RCP STM SEWER @ 0.50%

TYPE 2 RAMP

NEW CATCH BASIN 71+93, 12.6'LT TOC=694.38 RIM=693.88 IE=689.26

SAWCUT (TYP)

3' REMOVE & REPLACE CONCRETE DRIVEWAY

NEW 4' CONCRETE CURB & GUTTER TYPE D

NEW 31" CONCRETE CURB & GUTTER TYPE D (TYP AT RADIUS)

MATCH ASPHALT TO EXISTING RIM, PROTECT STRUCTURE

74+06.0, 28.8'LT

MATCH 696.26

MATCH 696.13

695.65

133'R

695.85

695.95

695.27

695.56

693.82

MATCH EX IE=688.72

5" CONC SIDEWALK

+51

+95

11.6'

19.0'

73+00

74+00

72" MIS

PROVIDE SHOVEL CUT EDGE (TYP)

694.64 FL

+40

8'

BTE

69+00

70+00

71+00

72+00

695.42 FL

+50

4'

8'

INFILTRATION SWALE

693.60

RG-5 SEE SHT L9 FOR DETAIL

3'

693.65

693.55

693.55

211+00

212+00

213+00

214+00

215+00

216+00

NEW 31" CONCRETE CURB & GUTTER TYPE D

NEW 10' WIDE ASPHALT BIKE PATH

REMOVE EXISTING CB

TYPE 2 RAMP

STA 71+81 (CENTER) RAISED PEDESTRIAN CROSSING WITH COLORED CONCRETE

CONCRETE SURFACE DRAIN (TYP)

100 YR FLOODPLAIN

FUTURE RAIN GARDEN KIOSK FOR EDUCATION

SAVE 52" RED OAK TREE

REMOVE TREE (TYP)

RG-6 SEE SHT L10 & L11 FOR DETAIL

3" PVC CONDUIT & REBAR AT ENDS (FOR FUTURE FLASHERS)

STA 69+48 BEGIN INFILTRATION SWALE IE=695.44

STA 69+00 TO STA 70+00 POTENTIAL STOCK PILE LOCATIONS (TYP)

REMOVE & REPLACE 134'-18" RCP STM SEWER, MATCH EXISTING GRADE

FILTER BAG PLACE IN UPLAND AREA COST INCIDENTAL TO OTHER WORK

PROTECT TREES WITH CONSTRUCTION FENCE (TYP)

SLOPE INTERCEPT (TYP)

100 YR FLOODPLAIN (2008 FEMA)

SILT FENCE

18" APRON ENDWALL

4.5'

MATCH EX INVERT

COFFER DAM

DEWATER COFFER DAM AREA PUMP INTO TYPE 1 GEOTEXTILE FILTER BAG LOCATED UPLAND ON FLAT AREA; CLEAN SEDIMENT FROM BAG DAILY, COST INCIDENTAL TO OTHER WORK

SEE NOTES ON SHEET 2 FOR PLACEMENT OF NEW LIGHTING CONDUIT (TYP)

WETLAND

3 CY OF MEDIUM RIPRAP

7.5'

EDGE OF WATER

9.5'

WETLAND

FROM STA 212+75 TO STA 213+75 SLOPE BIKE PATH TO ROAD

SEE SHEET 6 FOR INTERSECTION DETAILS

710

696.99 696.38 696.75 696.13 696.49 695.88 696.26 695.63 695.99 695.38 695.74 695.13 695.49 694.88 695.25 694.63 695.09 694.38 695.04 694.13 694.94 694.02 694.91 694.11 694.99 694.26 695.12 694.41 695.25 694.56 695.35 694.71 695.48 694.86 695.63 695.01 695.77 695.16 695.97 695.31 696.07 695.46 696.20 695.52 696.09 695.46

FINISHED CROWN ELEVATIONS

EXISTING ELEVATIONS AT RL

700

50.00'

K 31.25

VPC 71+20.00 694.18

71+51.25 694.02

VPT 71+70.00 694.08

-1.00%

0.60%

690

VPI 71+45.00 693.93

EXISTING PROFILE AT RL

PROPOSED CROWN PROFILE

VPC 73+95.00 695.43

VPI 74+20.00 695.58

74+25.00 695.52

50.00

K 50.00

VPT 74+45.00 695.48

69+00 70+00 71+00 72+00 73+00 74+00

DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section

CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG

CHECKED BY: TH

SCALE: 1"=40'

DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY

SHEET DESCRIPTION: PLAN & PROFILE 69+00 TO 74+50

SITE NO.

BUILDING NO.

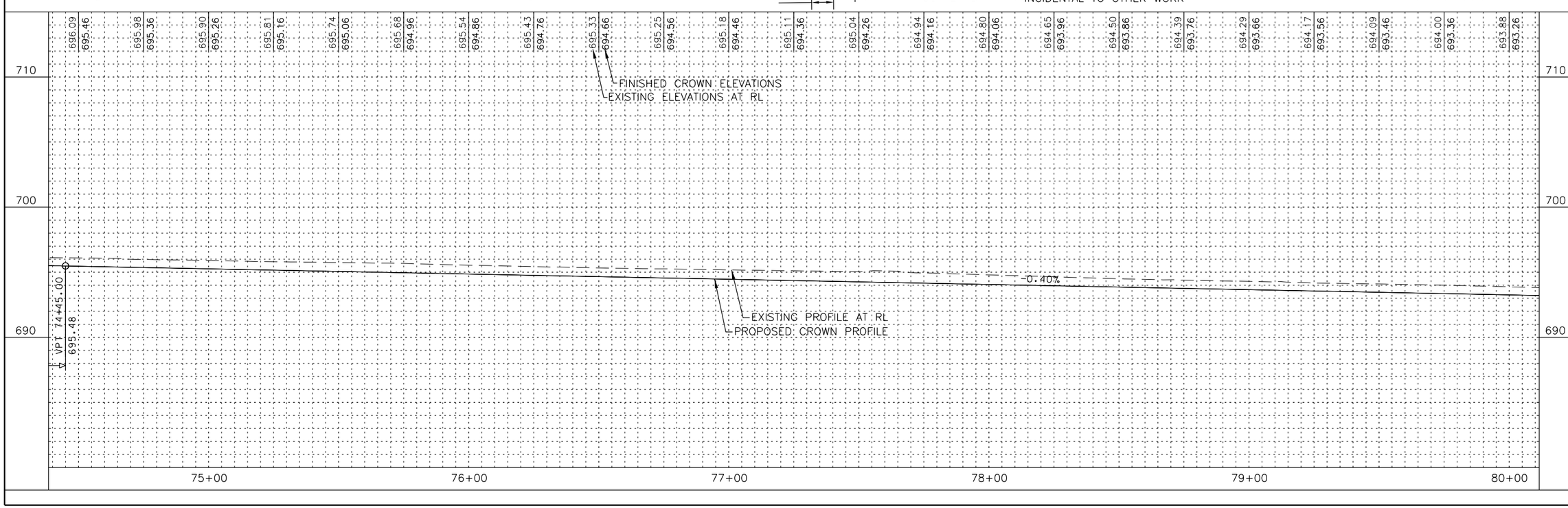
PROJECT NO. P280-13626

SHEET NO. 21

21 OF 110

FILE NO.

W SUNSET AVE
W NASH ST
HSE#3536
HSE#3534
HSE#3528
HSE#3524
HSE#3516
HSE#3512
HSE#3508
HSE#3504
7' REMOVE & REPLACE CONCRETE DRIVEWAY
4' REMOVE & REPLACE CONCRETE DRIVEWAY
SAWCUT (TYP)
74+63.4, 29.22'LT
REMOVE & REPLACE 20'-12" RCP STM @ 0.50%, MATCH EXISTING INVERTS
MATCH 694.85
NEW 31" CONCRETE CURB & GUTTER TYPE D (TYP AT RADIUS)
REMOVE & REPLACE FRAME & GRATE SEE DETAIL (TYP) TOC=694.40
77+02.5, 32.5'LT
694.60
ADJUST SAN MH CITY, -0.29'
REMOVE & REPLACE 20'-12" RCP STM @ 0.50%, MATCH EXISTING INVERTS
MATCH 694.82
REMOVE & REPLACE FRAME & GRATE TOC=694.65
INLET PROTECTION (TYP)
77+66.9, 32.7'LT
5" CONC SIDEWALK
694.34
NEW 4' CONCRETE CURB & GUTTER TYPE D
6' REMOVE & REPLACE CONCRETE DRIVEWAY
6' REMOVE & REPLACE CONCRETE DRIVEWAY
PROVIDE DRIVE OPENING AT EX DRIVES (TYP)
ADJUST SAN MH BY OTHERS, -0.69'
ADJUST STM MH, -0.56'
IE=688.51 MATCH EX. INVERT
694.09
693.70 FL
TYPE 2 RAMP
693.70 FL
STA 77+73 BEGIN INFILTRATION SWALE IE=693.71
72" MIS
ADJUST SAN MH BY OTHERS, -0.64'
ADJUST SAN MH BY OTHERS, -0.95'
INFILTRATION SWALE @ 0.50%
MENOMONEE RIVER PARKWAY
B-17
75+00
76+00
77+00
78+00
79+00
80+00
72" MIS
11.6'
19.0'
3'
3'R TYP
NEW 10' WIDE ASPHALT BIKE PATH
SLOPE INTERCEPT (TYP)
REMOVE EXISTING CB
ADJUST SAN MH BY OTHERS -1.2'
CONCRETE SURFACE DRAIN (TYP)
5" CONC SIDEWALK
NEW 31" CONCRETE CURB & GUTTER TYPE D
100 YR FLOODPLAIN
3" PVC CONDUIT & REBAR AT ENDS (FOR FUTURE FLASHERS)
REMOVE & REPLACE 123'-18" RCP STM SEWER, MATCH EXISTING GRADE
SILT FENCE
100 YR FLOODPLAIN (2008 FEMA)
18" APRON ENDWALL
4.5'
WETLANDS
3 CY OF MEDIUM RIPRAP
7.5'
9.6'
EDGE OF WATER
MATCH EX INVERT
COFFER DAM
FILTER BAG PLACE IN UPLAND AREA, COST INCIDENTAL TO OTHER WORK
DEWATER COFFER DAME AREA PUMP INTO TYPE 1 GEOTEXTILE FILTER BAG LOCATED UPLAND ON FLAT AREA; CLEAN SEDIMENT FROM BAG DAILY, COST INCIDENTAL TO OTHER WORK
PROTECT TREES WITH CONSTRUCTION FENCE (TYP)



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MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 74+50 TO 80+00
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 22
22 OF 110
FILE NO.

HSE#3500

HSE#3400

REMOVE & REPLACE 8'-12" RCP STM @ 1.00%

NEW 4' CONCRETE CURB & GUTTER TYPE D

INSTALL NEW CATCH BASIN TOC=693.14 RIM=692.64 IE=687.01

ADJUST SAN MH BY OTHERS -0.66'

REMOVE CB

REMOVE 10" STORM

ADJUST SAN MH BY OTHERS -0.81'

SAWCUT (TYP)

W KEEFE AVE

ADJUST STM MH, -0.22' IE=686.93 MATCH EX

ADJUST SAN MH BY OTHERS -0.86'

TYPE 1 RAMP

REMOVE & REPLACE 55'-12" RCP STM @ 1.32%, MATCH EXISTING INVERTS

NEW 4' CONCRETE CURB & GUTTER TYPE D (TYP AT RADIUS)

INLET PROTECTION (TYP)

INSTALL NEW CB IE=687.93 TOC=693.24 RIM=692.74

REMOVE CB

72'-12" RCP STM SEWER @ 0.50%

5" CONC SIDEWALK

REMOVE STM SEWER PIPE

5" CONC SIDEWALK

NEW CATCH BASIN 81+94.4, 12.6'LT TOC=692.70 RIM=692.20 IE=688.29

STA 82+06.5 (CENTER) RAISED PEDESTRIAN CROSSING WITH COLORED CONCRETE

TYPE 2 RAMP

3" PVC CONDUIT & REBAR AT ENDS (FOR FUTURE FLASHERS)

FUTURE 5' SIDEWALK

6' PARKING LANE

NEW 31" CONCRETE CURB & GUTTER TYPE D

SEE NOTES ON SHEET 2 FOR PLACEMENT OF NEW LIGHTING CONDUIT (TYP)

ROW

MENOMONEE RIVER PARKWAY

NO GRADING IN THIS AREA

35'-18" RCP STM @ 1.00%

72" MIS

80" MIS

60" MIS

96" MIS

42" MIS

IE=692.38 PLUG EAST

INFILTRATION SWALE @ 0.50%

18" STM OUTFALL IE=686.76

692.20

690.68 FL

690.40

690.50

B-27

B-3 SEE SHT L12 & L13 FOR DETAIL

ADJUST SAN MH BY OTHERS -0.91'

6" UNDERDRAIN IE=689.17

OVERFLOW STRUCTURE RIM=692.10, IE=686.76

13'-18" RCP STM @ 6.61%

SILT FENCE

REMOVE & REPLACE FRAME & GRATE NEENAH R-1800-C RIM=692.43 ~~IE=685.90~~ CORE HOLE ~~IE=686.00~~ SEE DETAIL(TYP)

FILTER BAG PLACE IN UPLAND AREA COST INCIDENTAL TO OTHER WORK

18" APRON ENDWALL

REMOVE & REPLACE 181'-18" RCP STM SEWER @ 0.90%

WETLAND

MATCH EXISTING INVERT = 684.27±

3 CY OF MEDIUM RIPRAP (4.5' WIDE X 9.5' WIDE X 7.5' LONG)

COFFER DAM

FUTURE RAIN GARDEN KIOSK FOR EDUCATION

TRAIL COUNTER & PEDESTRIAN COUNTER

100 YR FLOODPLAIN (2008 FEMA)

100 YR FLOODPLAIN

NEW 10' WIDE ASPHALT BIKE PATH

SLOPE INTERCEPT (TYP)

PROVIDE SHOVEL CUT EDGE (TYP)

BIOFILTRATION BASIN #3 OVERFLOW/TOP GRADE=692.10 DEPRESSED AREA/SURFACE ELEV=691.50 SEE DETAIL ON SHT 5 FOR EXCAVATION DEPTHS

NEW 31" CONCRETE CURB & GUTTER TYPE D

PROTECT TREES WITH CONSTRUCTION FENCE (TYP)

CONCRETE SURFACE DRAIN (TYP)

REMOVE TREE (TYP)

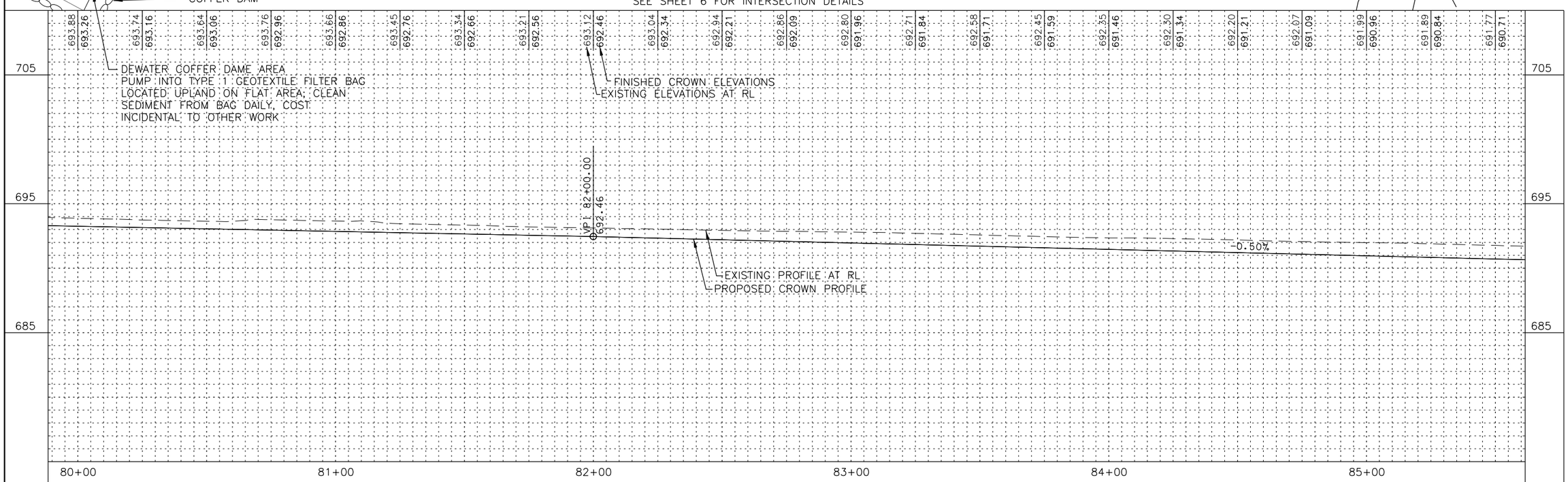
RG-7 SEE SHT L14 & L15 FOR DETAIL

GRADE TO DRAIN

WETLANDS

FUTURE RAIN GARDEN KIOSK FOR EDUCATION

SEE SHEET 6 FOR INTERSECTION DETAILS



DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 80+00 TO 85+50

SITE NO.
BUILDING NO.

PROJECT NO. P280-13626

SHEET NO. 23
23 OF 110
FILE NO.

HSE#3400

FUTURE 5' SIDEWALK

NEW 31" CONCRETE CURB & GUTTER TYPE D

INLET PROTECTION (TYP)

REMOVE & REPLACE 20'-EX 8" TO 12" RCP STORM SEWER @ 4.70%

STA 87+38, 15.6'LT NEW CATCH BASIN TOC=689.80 RIM=689.30 IE=686.08 (12"E,W)

REMOVE 8" STM SEWER PIPE

REMOVE EX CB

NEW 4' CONCRETE CURB & GUTTER TYPE D

ADJUST SAN MH BY OTHERS -0.50'

CONCRETE SURFACE DRAIN (TYP)

MENOMONEE RIVER PARKWAY

ROW

REMOVE & REPLACE 42'-EX 8" TO 12" RCP STM SEWER @ 0.50%

REMOVE EX CB

INFILTRATION SWALE

STA 86+00 BEGIN INFILTRATION SWALE, IE=690.00

RG-8 SEE SHT L16 FOR DETAIL

STA 88+70 BEGIN INFILTRATION SWALE, IE=689.84

STA 91+10 BEGIN INFILTRATION SWALE, IE=688.36

ADJUST STM MH, -2.1'

REMOVE & REPLACE 50'-EX 8" TO 12" RCP STM SEWER AT EX GRADE

CONNECT TO EX 8" INVERT WITH CONC COLLAR. COST INCIDENTAL TO OTHER WORK

REMOVE TREE (TYP)

GRADE TO DRAIN

WETLANDS

NEW 10' WIDE ASPHALT BIKE PATH

RG-9 SEE SHT L17 FOR DETAIL

WALL

FUTURE RAIN GARDEN KIOSK FOR EDUCATION

SILT FENCE (TYP)

SLOPE INTERCEPT (TYP)

100 YR FLOODPLAIN

100 YR FLOODPLAIN (2008 FEMA)

NEW 31" CONCRETE CURB & GUTTER TYPE D

RG-7 SEE SHT L15 FOR DETAIL

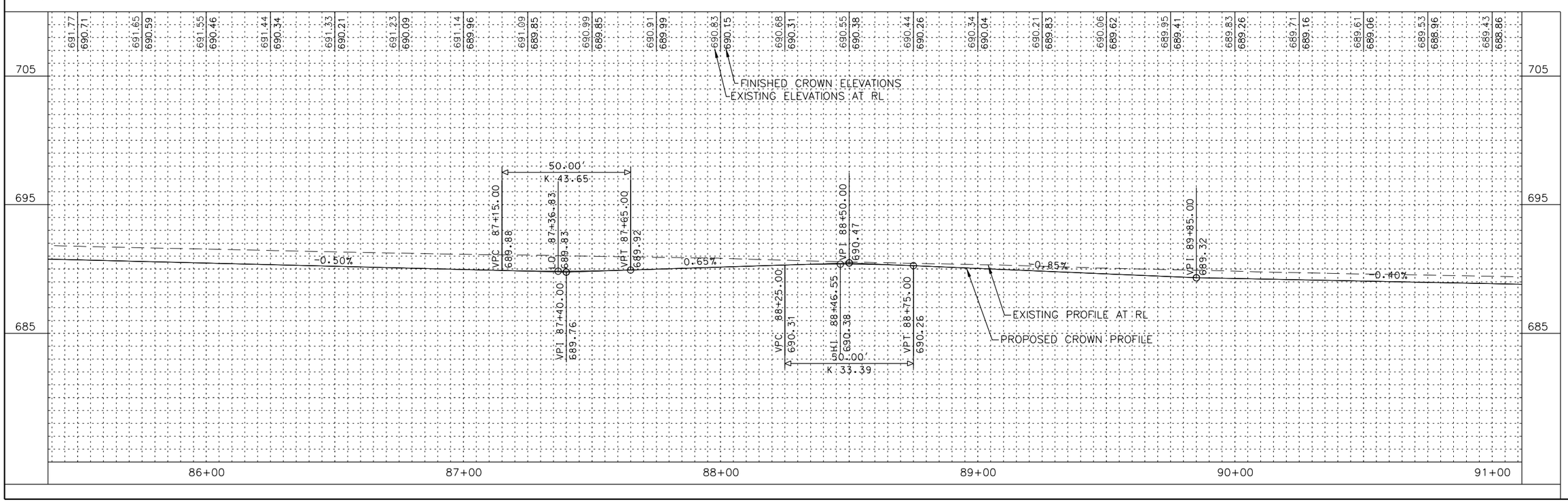
PROVIDE SHOVEL CUT EDGE (TYP)

SEE NOTES ON SHEET 2 FOR PLACEMENT OF NEW LIGHTING CONDUIT (TYP)

PROTECT TREES WITH CONSTRUCTION FENCE (TYP)

EDGE OF WATER

FROM STA 227+10 TO STA 229+10 SLOPE BIKE PATH TO ROAD



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MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

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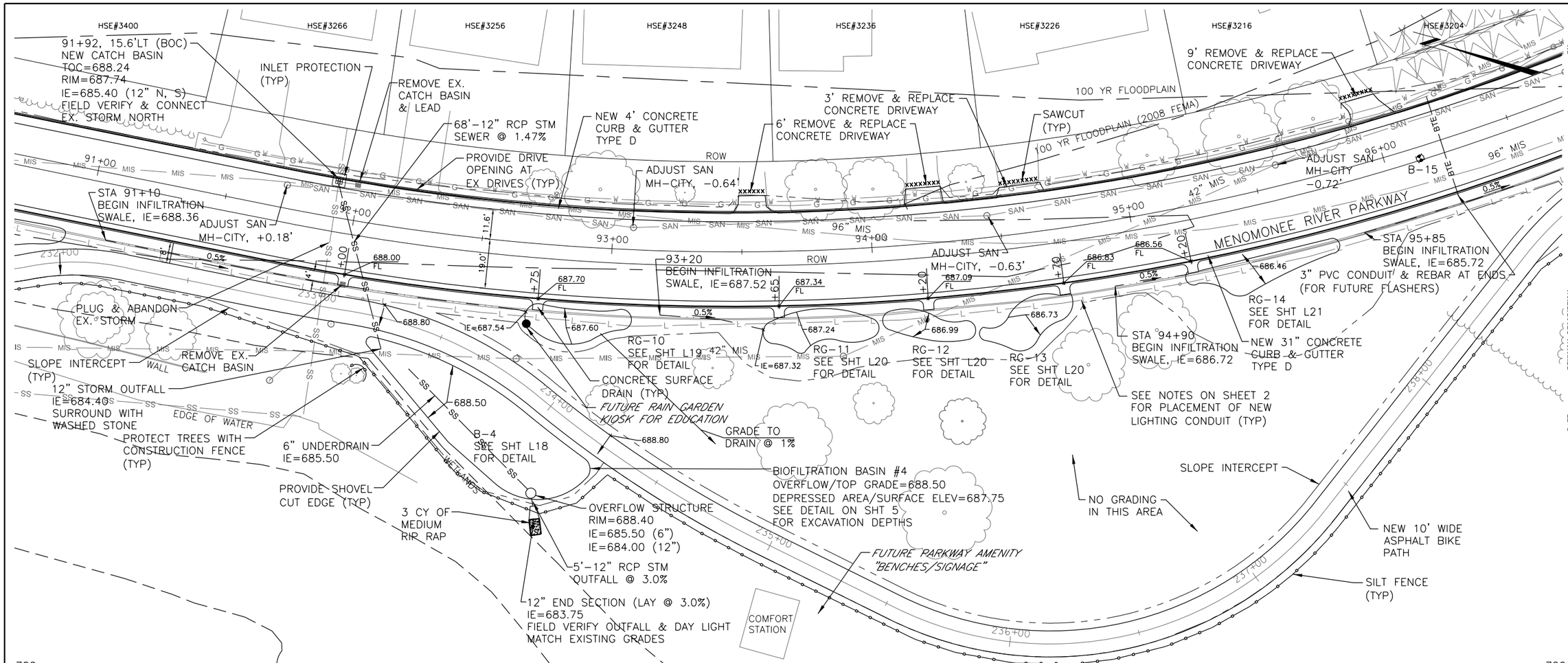
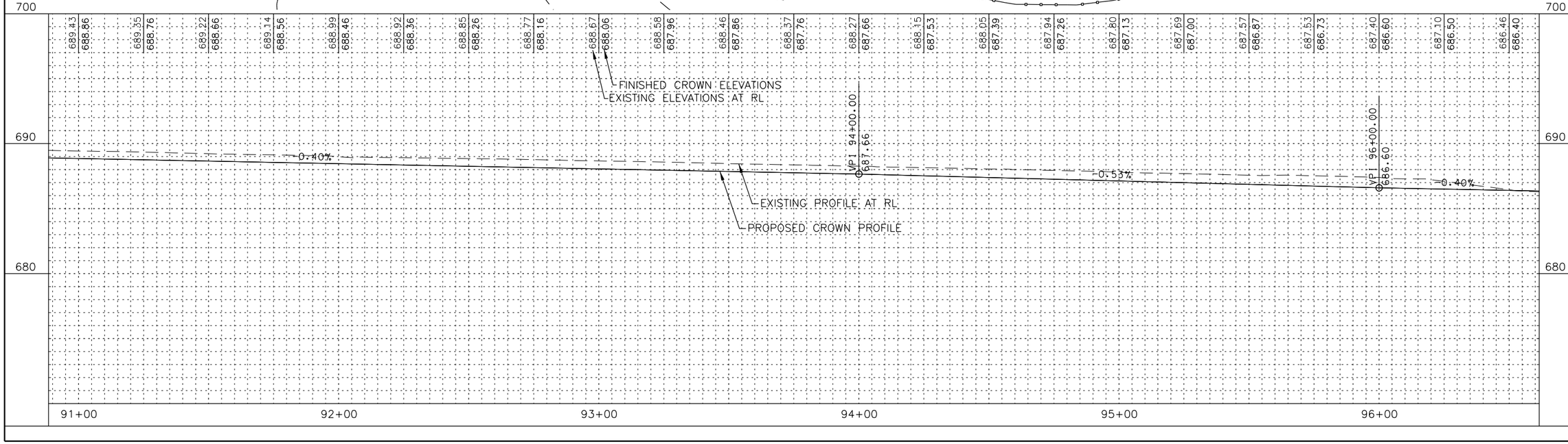
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 85+50 TO 91+00
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 24
24 OF 110
FILE NO.





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Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

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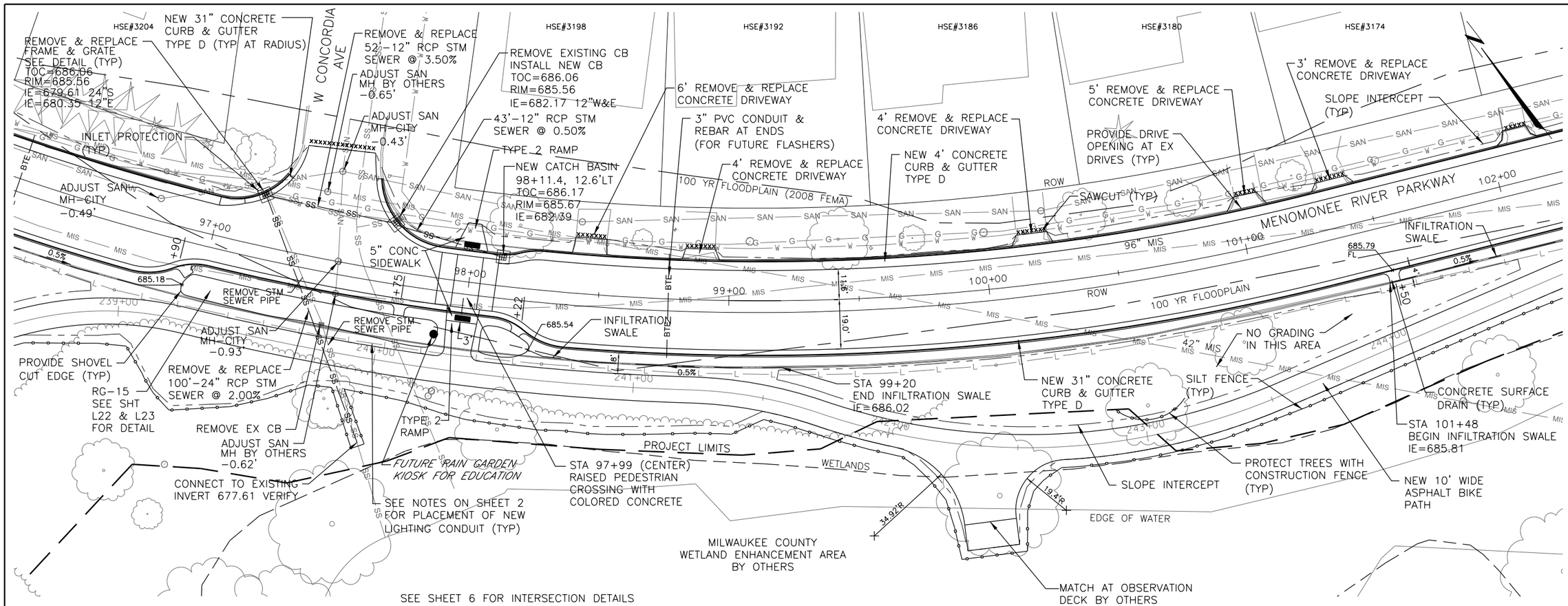
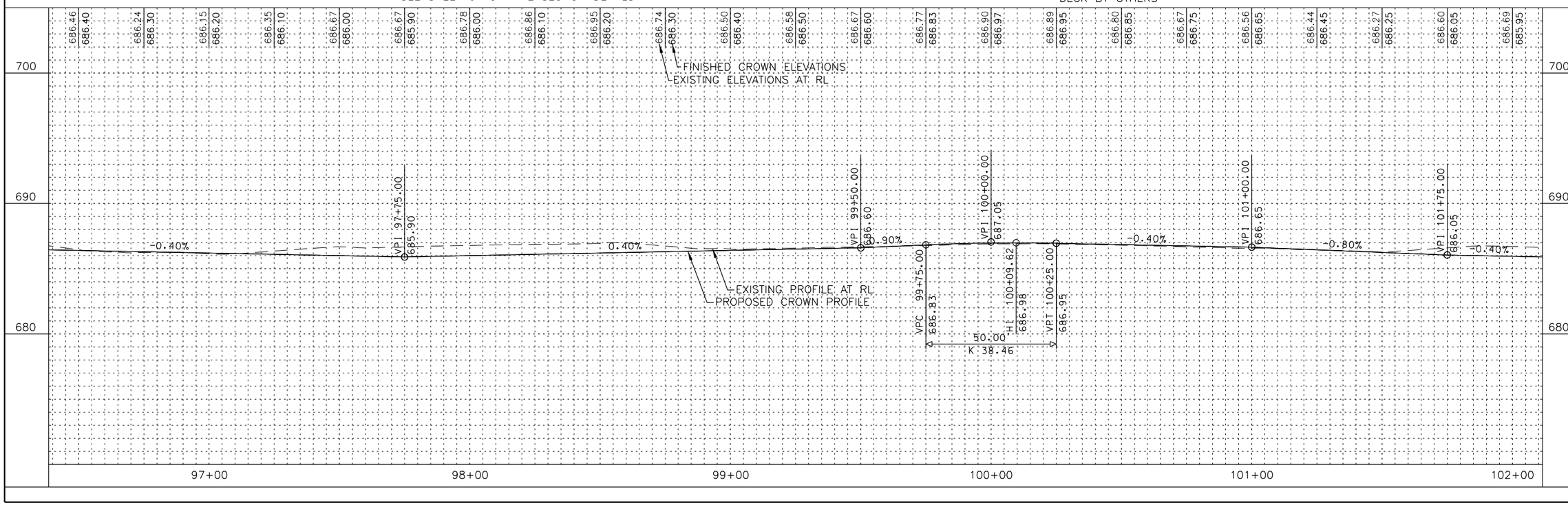
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 91+00 TO 96+50
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 25
25 OF 110
FILE NO.





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CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

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SCALE: 1"=40'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PLAN & PROFILE 96+50 TO 102+00
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 26	26 OF 110
FILE NO.	

HSE#3170
HSE#3160
HSE#3154
HSE#3148
HSE#3144
HSE#3138

102+96, 15.6'LT
REMOVE & REPLACE
FRAME & GRATE
SEE DETAIL (TYP)
TOC=685.72
RIM=685.22

INLET PROTECTION (TYP)

NEW 4' CONCRETE
CURB & GUTTER
TYPE D

11' REMOVE & REPLACE
CONCRETE DRIVEWAY

4' REMOVE & REPLACE
CONCRETE DRIVEWAY

PROVIDE DRIVE
OPENING AT EX
DRIVES (TYP)

4' REMOVE & REPLACE
CONCRETE DRIVEWAY

SAWCUT
(TYP)

4' REMOVE & REPLACE
CONCRETE DRIVEWAY

5' REMOVE & REPLACE
CONCRETE DRIVEWAY

100 YR FLOODPLAIN (2008 FEMA)

3" PVC CONDUIT & REBAR AT ENDS
(FOR FUTURE FLASHERS)

3' REMOVE & REPLACE
CONCRETE DRIVEWAY

REMOVE & REPLACE 38'-15"
RCP STM @ 4.00%

IE=679.42

INFILTRATION
SWALE

REMOVE & REPLACE
FRAME & GRATE
RIM=685.00

686.09
FL

B-14

STA 105+02 END
INFILTRATION SWALE
IE=686.10

MENOMONEE RIVER PARKWAY

ADJUST SAN MH
BY OTHERS
-0.79

685.11
FL

96" MIS

REMOVE
TREE (TYP)

CONCRETE SURFACE
DRAIN (TYP)

CONNECT TO
EXISTING
IE=677.02
VERIFY

GRADE TO DRAIN
SWALES TO CB

EDGE OF WATER

WETLANDS

PROJECT LIMITS

PROTECT TREES WITH
CONSTRUCTION FENCE
(TYP)

100 YR FLOODPLAIN

NEW 31" CONCRETE
CURB & GUTTER
TYPE D

NEW 10' WIDE
ASPHALT BIKE
PATH

SLOPE INTERCEPT
(TYP)

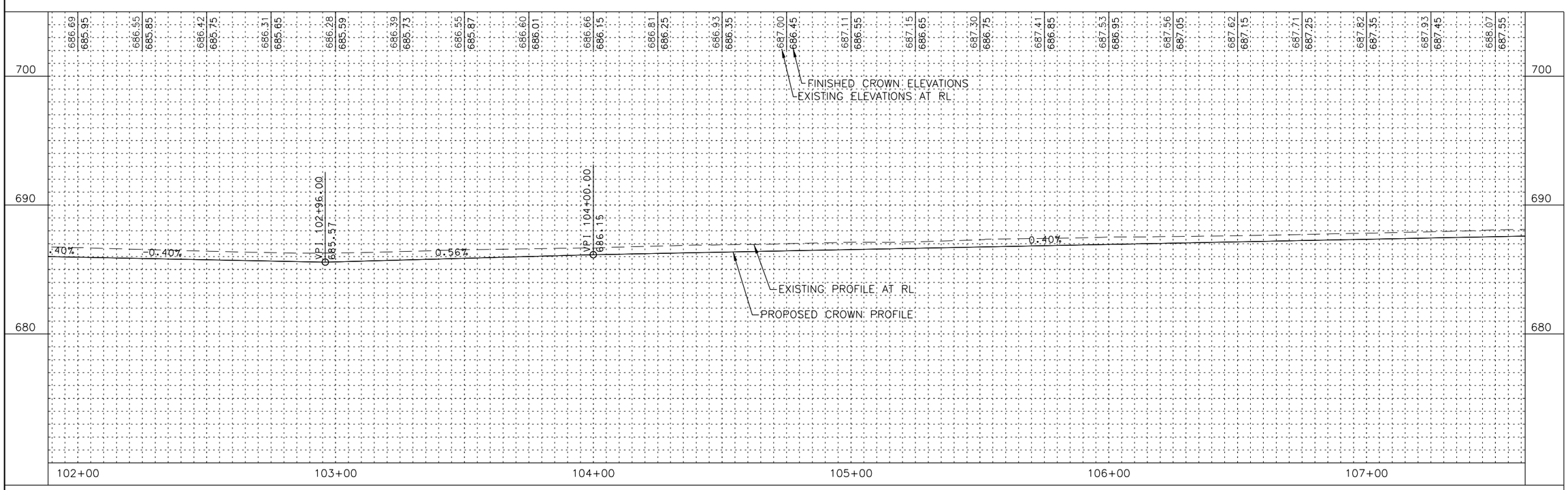
SILT FENCE
(TYP)

REMOVE & REPLACE 22'-24"
RCP STM @ 4.00%

MILWAUKEE COUNTY
WETLAND ENHANCEMENT AREA
BY OTHERS

STA 105+50 TO 110+00 RIGHT
POTENTIAL STOCKPILE LOCATION

42" MIS



MILWAUKEE COUNTY DEPARTMENT OF
ADMINISTRATIVE SERVICES
Architecture, Engineering &
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CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

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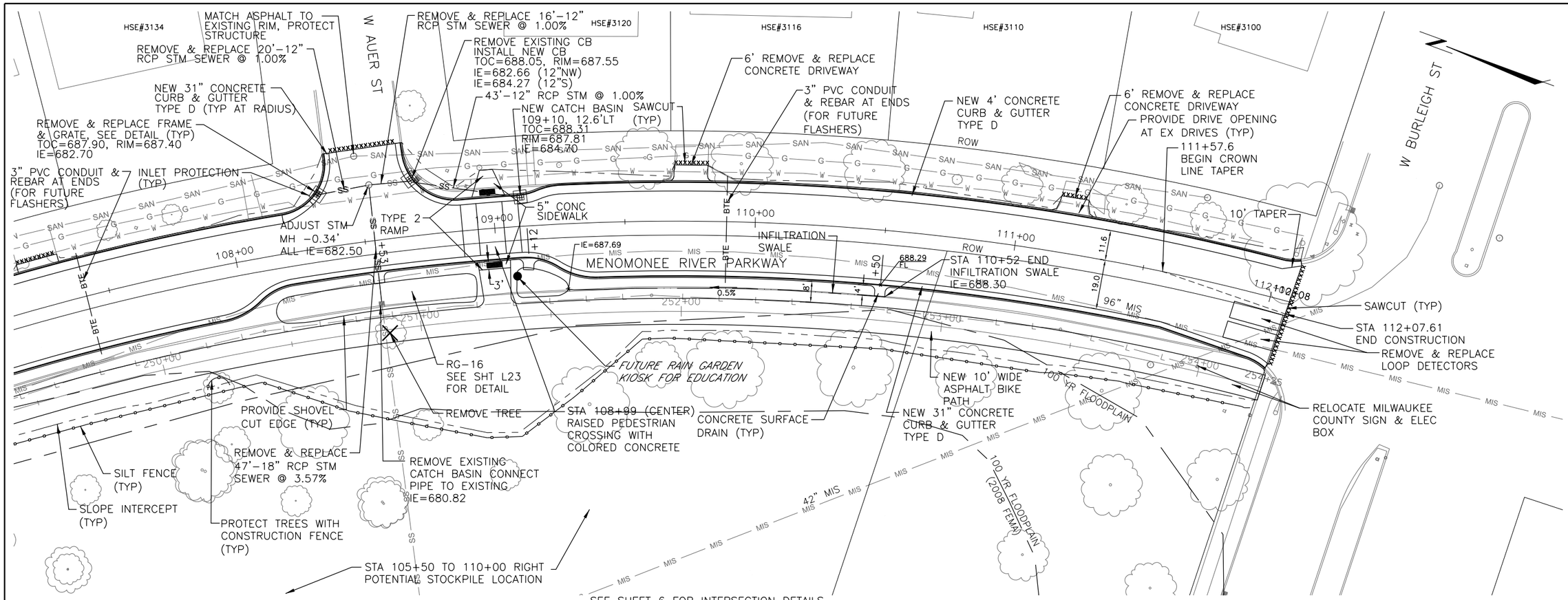
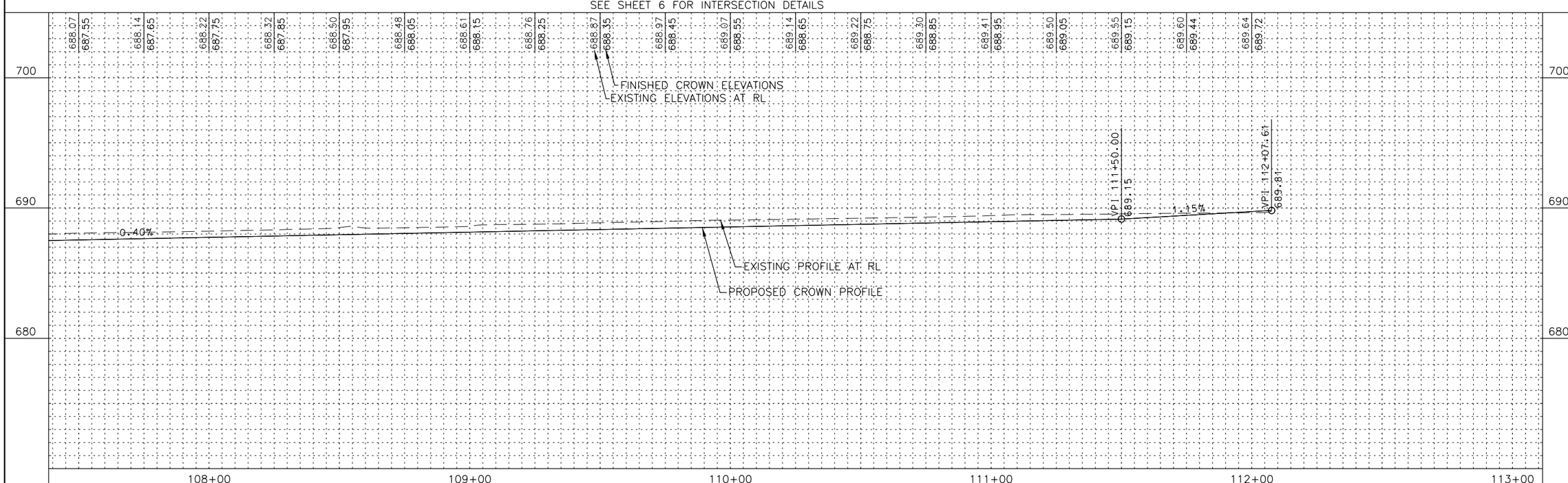
CHECKED BY: TH
SCALE: 1"=40'
DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: PLAN & PROFILE 102+00 TO 107+50
SITE NO.
BUILDING NO.
PROJECT NO. P280-13626
SHEET NO. 27
27 OF 110
FILE NO.





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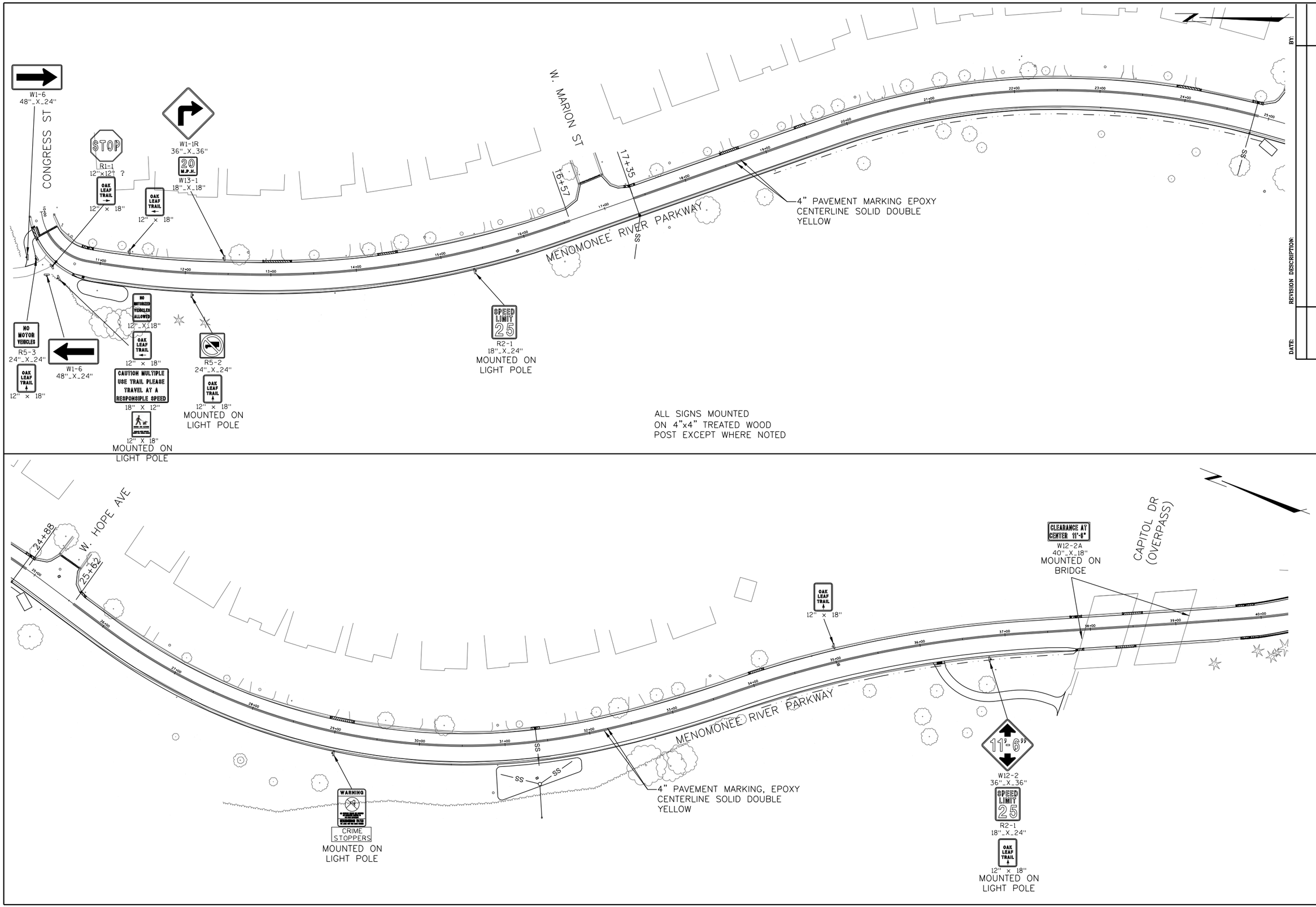
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DATE: | REVISION DESCRIPTION: | BY:

DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=40'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PLAN & PROFILE 107+50 TO 113+00
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 28	28 OF 110
	FILE NO.



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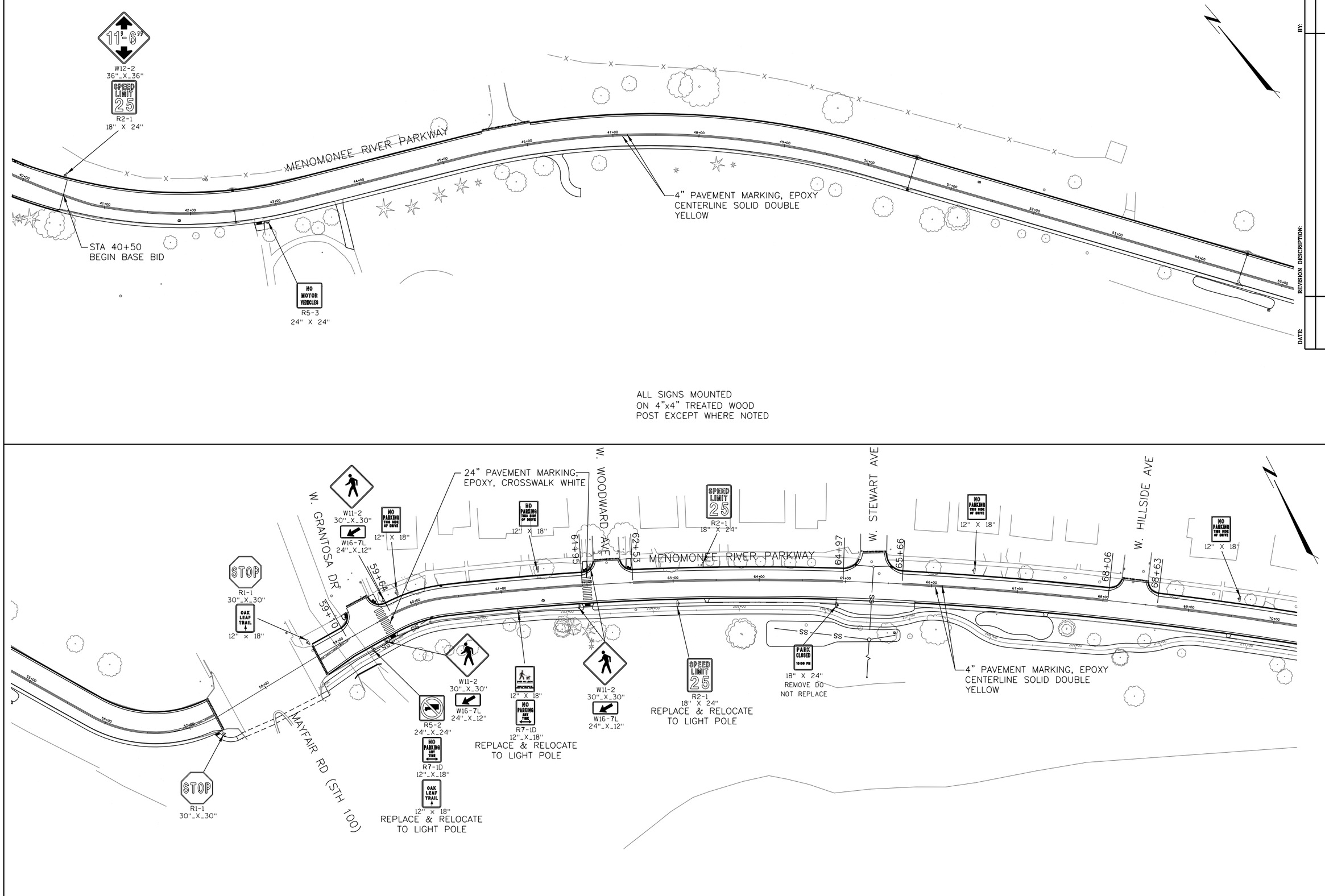
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=100'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PERMANENT SIGNING & PAVEMENT MARKING
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 29	29 OF 110
	FILE NO.



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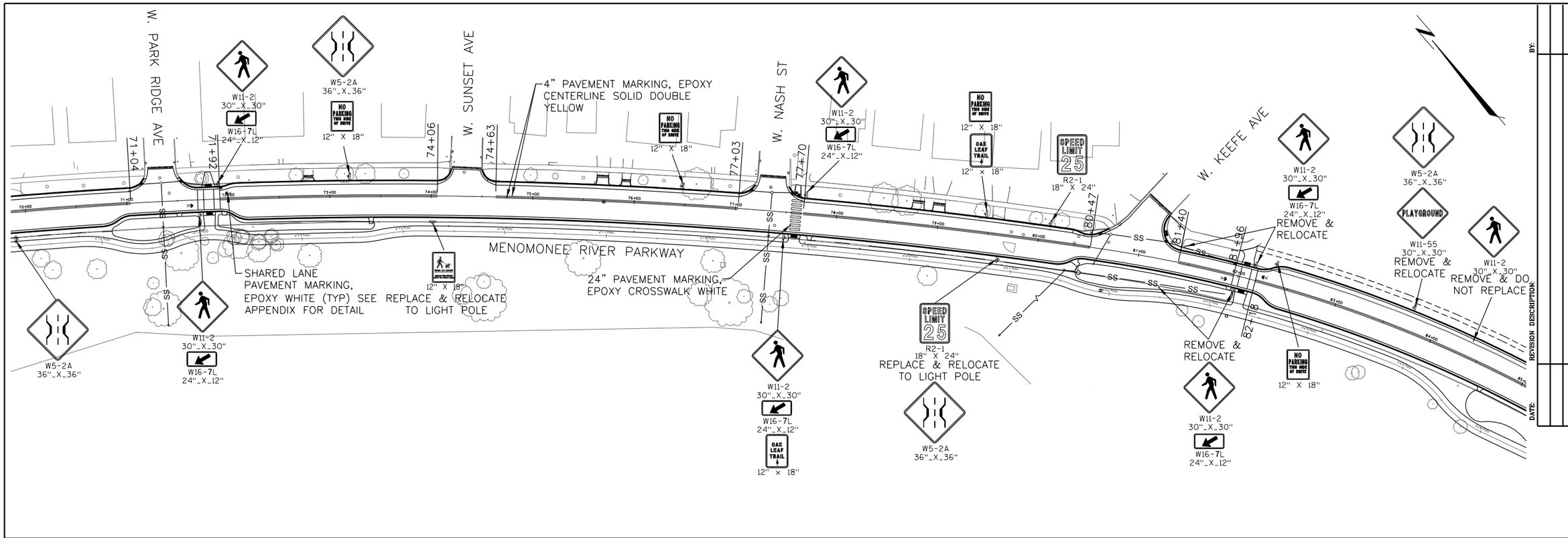
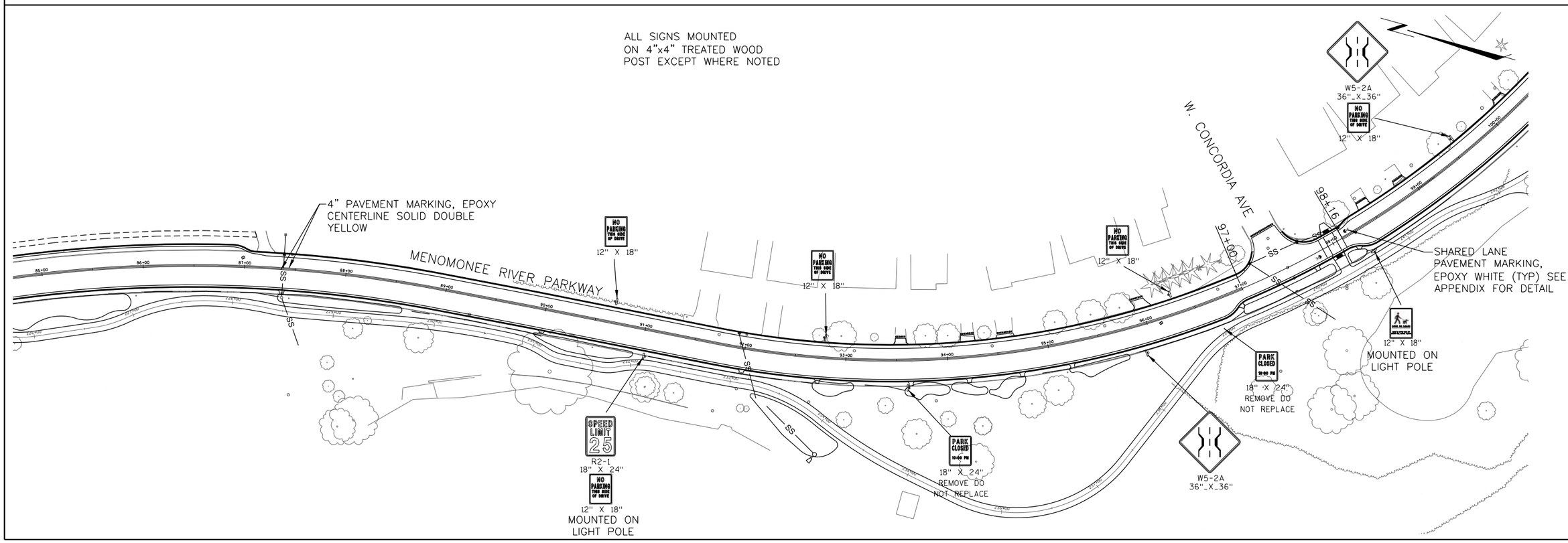
Architecture, Engineering &
Environmental Services Section

CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=100'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PERMANENT SIGNING & PAVEMENT MARKING
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 30	30 OF 110
	FILE NO.





MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

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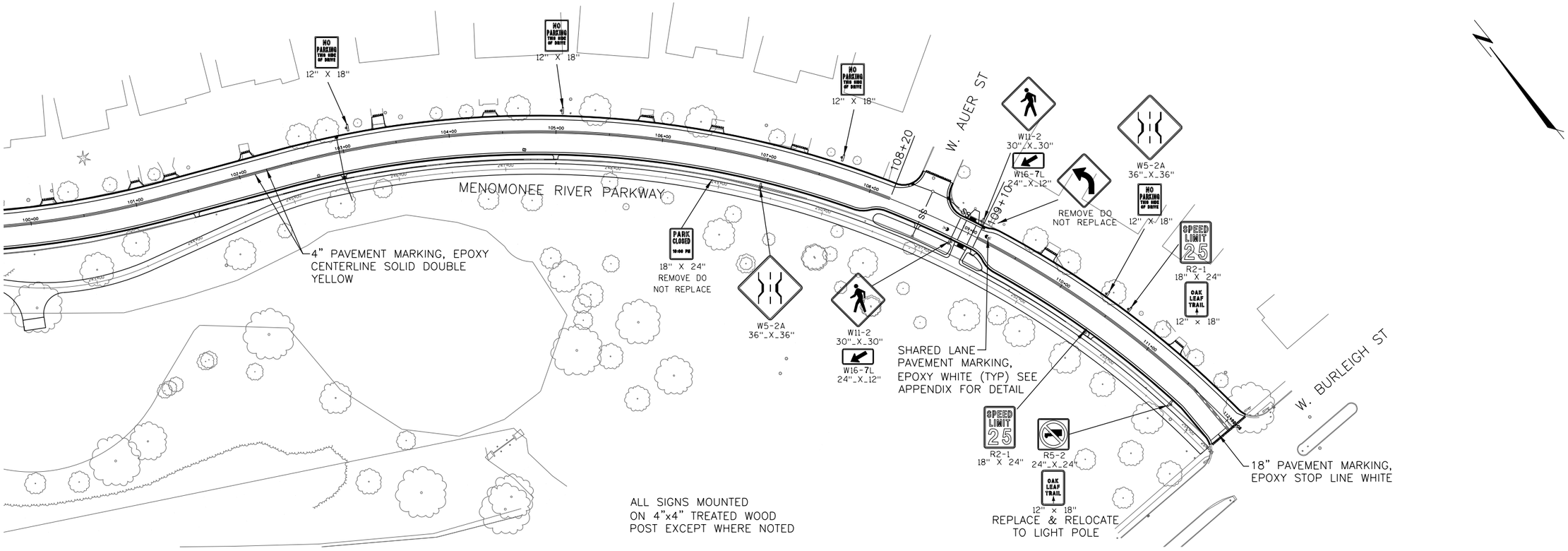
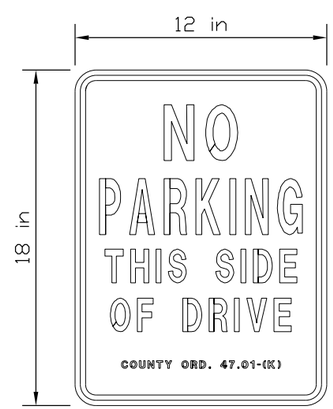
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PERMANENT SIGNING & PAVEMENT MARKING
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 31	31 OF 110
	FILE NO.





RED ON WHITE

BLUE ON WHITE

DATE: REVISION DESCRIPTION: BY:

MILWAUKEE COUNTY DEPARTMENT OF ADMINISTRATIVE SERVICES
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

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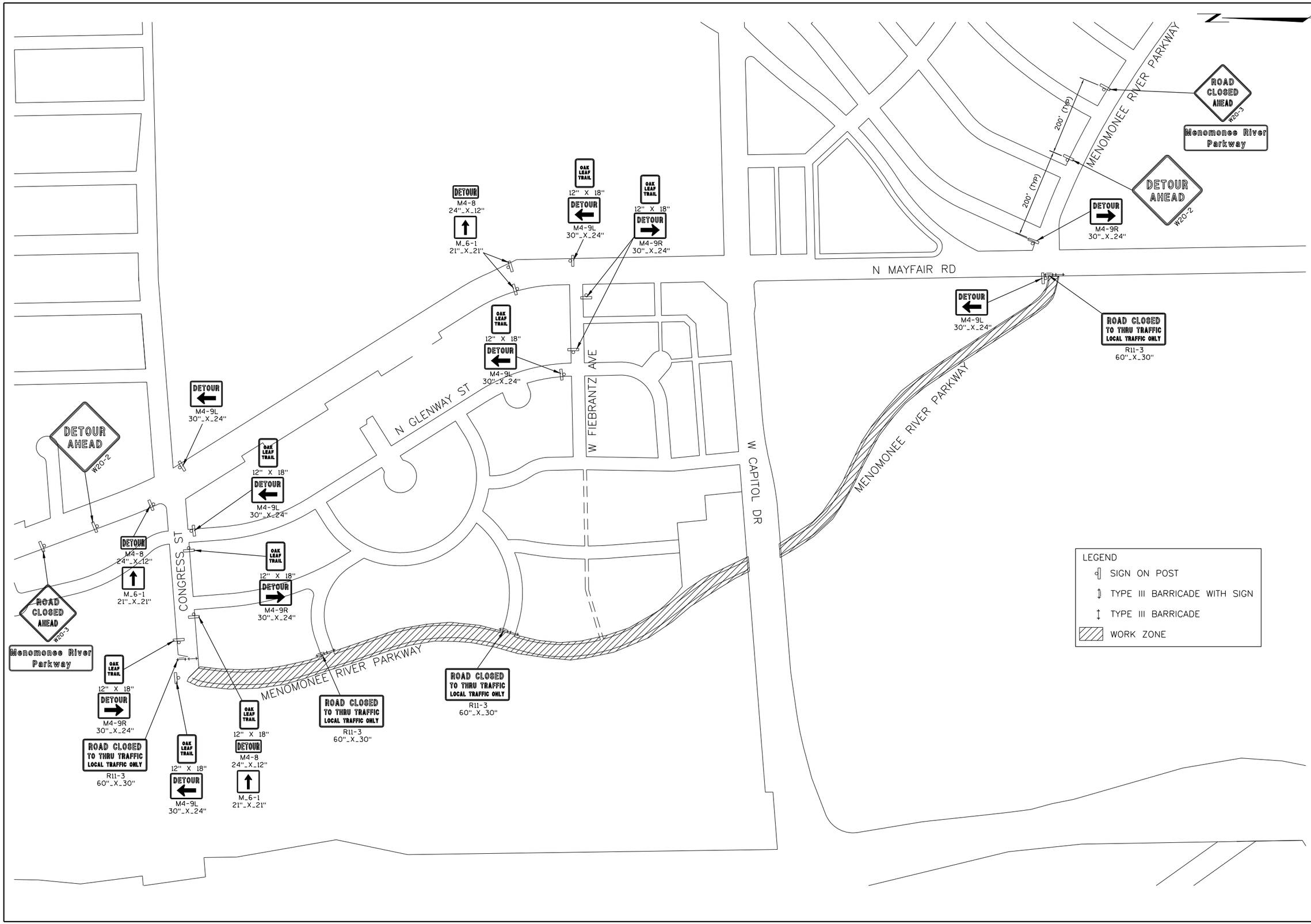
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: PERMANENT SIGNING & PAVEMENT MARKING
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 32	32 OF 110
FILE NO.	



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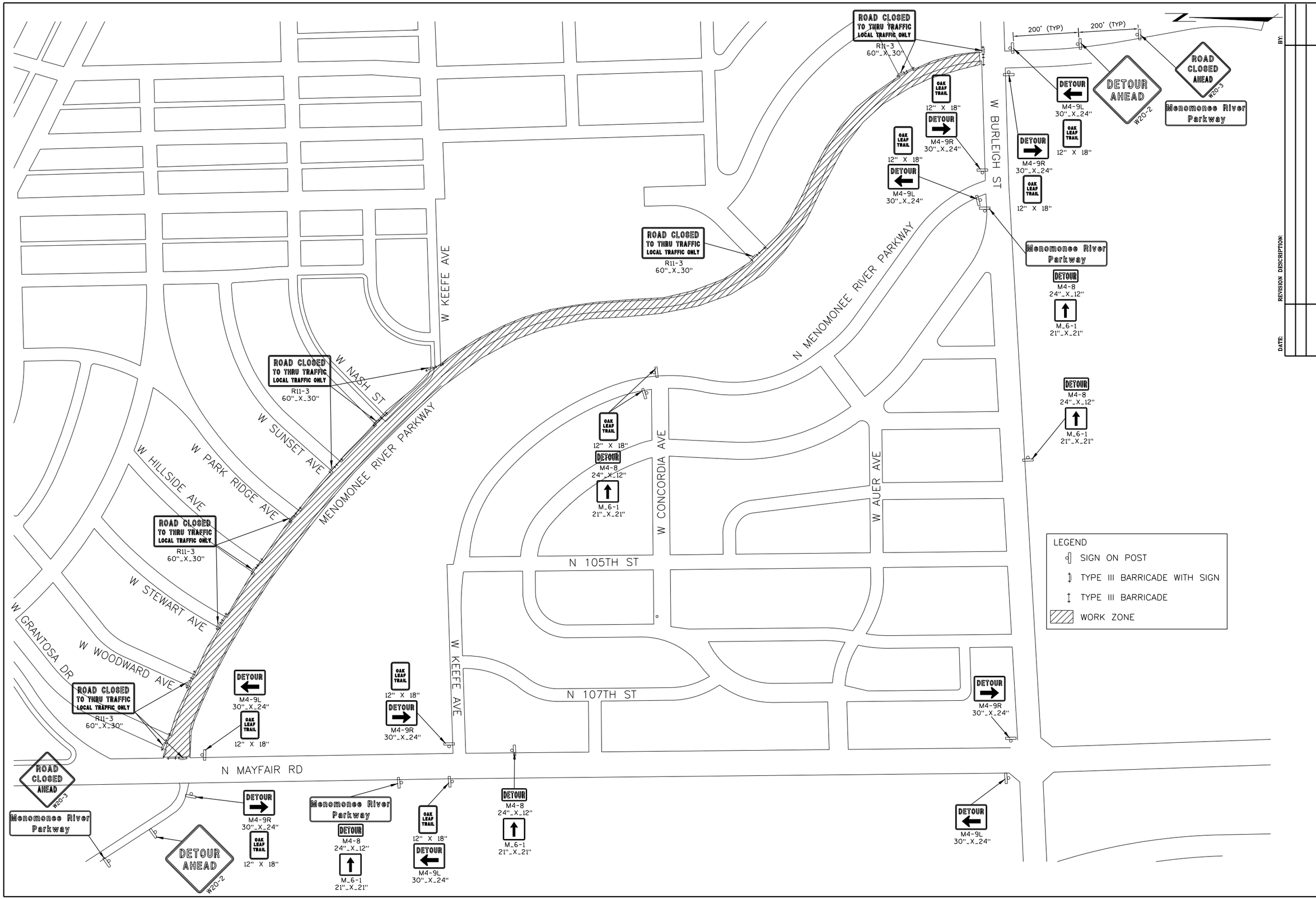
Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

DRAWN BY: BJG	CHECKED BY: TH
SCALE: 1"=100'	DATE: 7/03/14
PROJECT TITLE: MENOMONEE RIVER PARKWAY	SHEET DESCRIPTION: DETOUR ROUTE CONGRESS ST TO MAYFAIR RD
SITE NO.	BUILDING NO.
PROJECT NO. P280-13626	
SHEET NO. 33	33 OF 110
FILE NO.	



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Architecture, Engineering & Environmental Services Section
CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208

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SCALE: 1"=100'
CHECKED BY: TH
DATE: 7/03/14

PROJECT TITLE: MENOMONEE RIVER PARKWAY
SHEET DESCRIPTION: DETOUR ROUTE MAYFAIR RD TO BURLEIGH ST

SITE NO.
BUILDING NO.

PROJECT NO. P280-13626

SHEET NO. 34
34 OF 110
FILE NO.