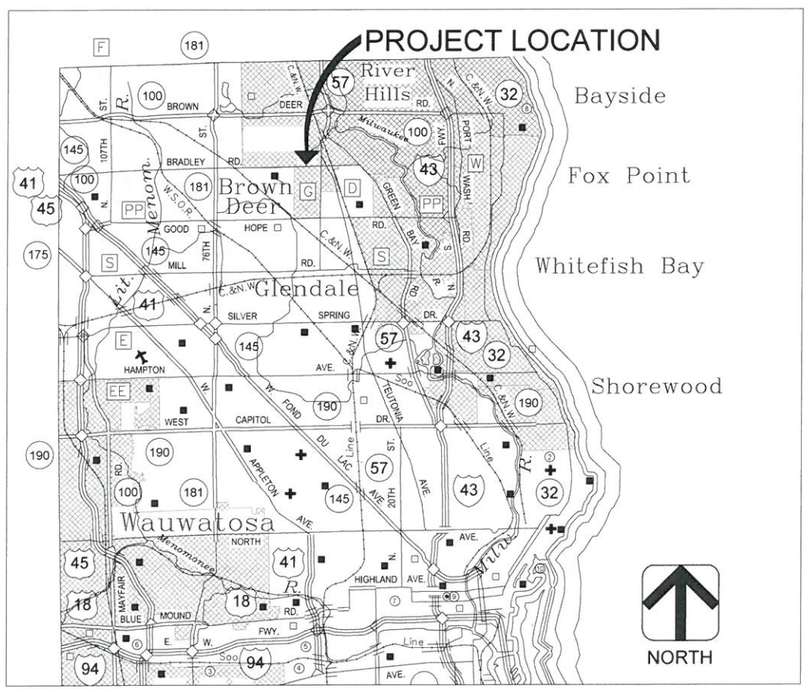
W. BRADLEY ROAD RECONSTRUCTION
N. 51ST ST TO N. SHERMAN BLVD AND
N. 50ST ST. DRAINAGE DITCH REHABILITATION

VILLAGE OF BROWN DEER
BROWN DEER, WI

JANUARY 2015

COUNTY MAP
NTS



VILLAGE OF BROWN DEER
MILWAUKEE COUNTY, WISCONSIN

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XS010	ROADWAY CROSS SECTIONS
XS011	ROADWAY CROSS SECTIONS
XS012	ROADWAY CROSS SECTIONS
XS013	ROADWAY CROSS SECTIONS
XS014	ROADWAY CROSS SECTIONS
XS015	ROADWAY CROSS SECTIONS
XS016	ROADWAY CROSS SECTIONS
XS017	ROADWAY CROSS SECTIONS
XS018	ROADWAY CROSS SECTIONS
XS019	ROADWAY CROSS SECTIONS

DES BY	AJS	BOOK NO	—	1	1/05/15	BID DOCUMENTS			
DR BY	AJS	PROJ NO	24-0266.03						
CHK BY	KKA	DATE	JANUARY 2015	NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

TITLE SHEET

SHEET NO
G001

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1/5/2015
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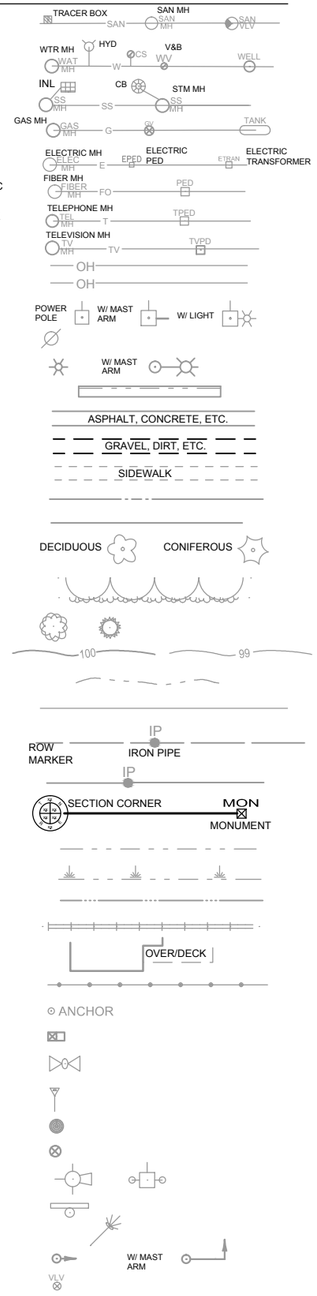
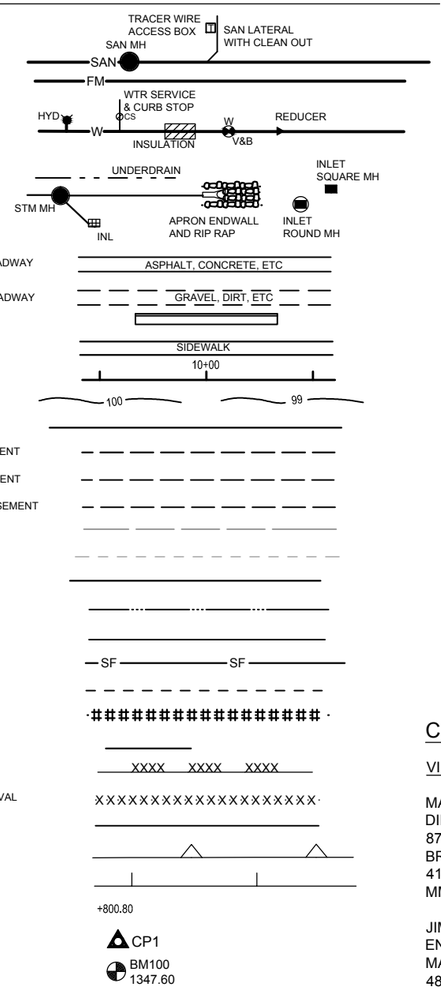
EXISTING

SANITARY SEWER
WATER MAIN
STORM SEWER
UNDERGROUND GAS
UNDERGROUND ELECTRIC
UNDERGROUND FIBER OPTIC
UNDERGROUND TELEPHONE
UNDERGROUND VIDEO
OVERHEAD ELECTRIC
OVERHEAD UTILITY
UTILITY POLES:
TELEPHONE POLE
LIGHT POLE
CURB AND GUTTER
HARD SURFACED ROADWAY
NON-SURFACED ROADWAY
SIDEWALK
STREET CENTERLINE
RETAINING WALL
TREES
TREE LINE
HEDGE OR BUSH LINE
BUSH / SHRUB
CONTOURS
DITCH
FENCE
RIGHT OF WAY
PROPERTY LINE
SECTION LINE
WETLAND
SWAMP EDGE
WATER'S EDGE
RAILROAD
BUILDING
GUARD RAIL
ANCHOR
CONTROL BOX
METER
PARKING METER
POLE
PULLBOX
RR SIGNAL FLASHER / BOX
SIGN
SPRINKLER HEAD
TRAFFIC SIGNAL
VALVE



PROPOSED

SANITARY SEWER
FORCE MAIN
WATER MAIN
STORM SEWER
HARD SURFACE ROADWAY
NON-SURFACED ROADWAY
CURB AND GUTTER
SIDEWALK
BASELINE
CONTOURS
FENCE
PERMANENT EASEMENT
TEMPORARY EASEMENT
CONSTRUCTION EASEMENT
UTILITY EASEMENT
SETBACK
RETAINING WALL
POND
DITCH
SILT FENCE
EROSION BALES
EROSION MAT
EROSION LOG
SAW CUT
DEMOLITION / REMOVAL
GUARD RAIL
TOP OF CUT
TOP OF FILL
SPOT ELEVATION
CONTROL POINT
BENCHMARK



ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
AL	ALUMINUM
ALT/	ALTERNATE
APPROX	APPROXIMATE
ASPH	ASPHALT
AUTO	AUTOMATIC
AVE	AVENUE
@	AT
BOC	BACK OF CURB
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLVD	BOULEVARD
BM	BENCHMARK
BO	BREAKOFF
BOW	BACK OF SIDEWALK
BTM	BOTTOM
B/L ℄	BASELINE
C&G	CURB AND GUTTER
CB	CATCH BASIN
CF	CUBIC FOOT
CI	CAST IRON
C/L ℄	CENTERLINE
CHL	CHLORINE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CONC	CONCRETE
CP	CONTROL POINT
CPLG	COUPLING
CSP	CORRUGATED STEEL PIPE
CTH	COUNTY TRUNK HIGHWAY
CULV	CULVERT
CV	CHECK VALVE
CW	COLD WATER
CY	CUBIC YARD
DEG °	DEGREE
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DR	DOOR
DTL	DETAIL
DW	DRIVEWAY
DWG	DRAWING
E	EAST
EA	EACH
EFF	EFFLUENT
EL	ELEVATION
ELB	ELBOW
ELEC	ELECTRICAL
EQ	EQUAL
ER	END OF RADIUS
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
FF	FINISHED FOOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FERT	FERTILIZER
F-F	FACE TO FACE
FIN	FINISHED
FL	FLOWLINE
FLG	FLANGED
FM	FORCE MAIN
FT (')	FOOT
FTG	FOOTING
FV	FIELD VERIFY
G	GAS
GA	GAGE
GALV	GALVANIZED
GAR	GARAGE
GEN	GENERAL
GRD	GRADE, GROUND
GV	GATE VALVE
GRAV	GRAVEL
GW	GROUNDWATER
HSE	HOUSE
HW	HOT WATER
HWR	HOT WATER RETURN
HYD	HYDRANT
ID	INSIDE DIAMETER
IN (")	INCHES
INF	INFLUENT
INL	INLET
INSUL	INSULATION
INV	INVERT
IP	IRON PIPE
JT	JOINT
LC	LENGTH OF CURVE
LF	LINEAL FEET
LP	LIGHT POLE
LS	LUMP SUM
LT	LEFT
MAS	MASONRY
MAX	MAXIMUM
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MP	MID POINT
N	NORTH
NO #	NUMBER
NOM	NOMINAL
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
PC	POINT OF CURVE
PE	PRIVATE ENTRANCE
PED	PEDESTAL
PERF	PERFORATE
PI	POINT OF INTERSECTION
P/L ℙ	PROPERTY LINE
PP	POWER POLE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
%	PERCENT
QTY	QUANTITY
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
RED	REDUCER
REF	REFERENCE
REQD	REQUIRED
REV	REVISED
RR	RAILROAD
RT	RIGHT
RW	RIGHT OF WAY
S	SOUTH
SAN	SANITARY
SAMH	SANITARY MANHOLE
SCH	SCHEDULE
SF	SQUARE FOOT
SHT	SHEET
SL	SLOPE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSMH	STORM SEWER MANHOLE
ST	STREET
STD	STANDARD
STH	STATE TRUNK HIGHWAY
STL	STEEL
STM	STORM
SW	SIDEWALK
SY	SQUARE YARD
TOC	TOP OF CURB
TEL	TELEPHONE
THK	THICKNESS
THRU	THROUGH
TYP	TYPICAL
UNEXC	UNEXCAVATED
USH	UNITED STATES HIGHWAY
V	VALVE
V&B	VALVE & BOX
VAR	VARIABLE
VC	VERTICAL CURVE
W	WEST
W/	WITH
W/O	WITHOUT
WM	WATER MAIN
WS	WATER SURFACE
WTP	WATER TREATMENT PLANT
WTR	WATER
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH
WWTP	WASTEWATER TREATMENT PLANT

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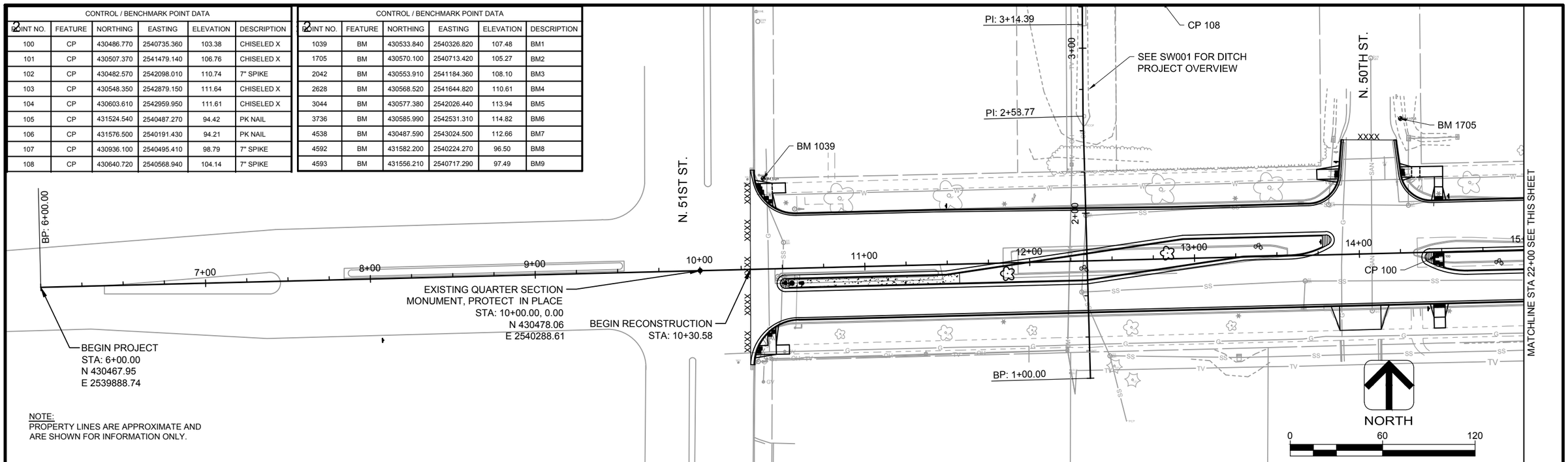
JB5175@ATT.COM

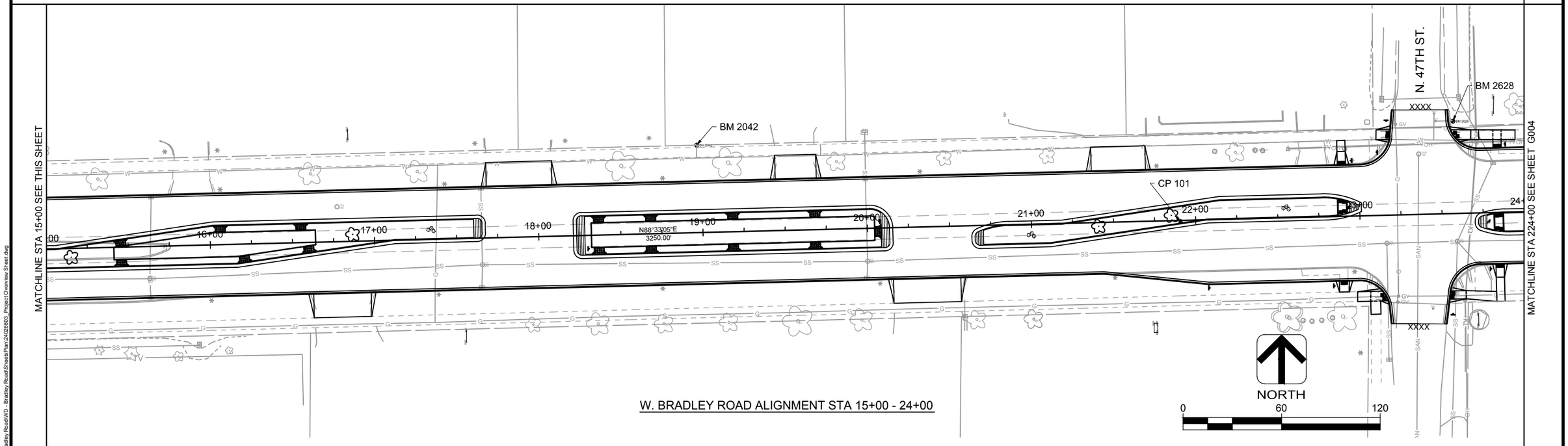
CONTROL / BENCHMARK POINT DATA					
POINT NO.	FEATURE	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	CP	430486.770	2540735.360	103.38	CHISELED X
101	CP	430507.370	2541479.140	106.76	CHISELED X
102	CP	430482.570	2542098.010	110.74	7" SPIKE
103	CP	430548.350	2542879.150	111.64	CHISELED X
104	CP	430603.610	2542959.950	111.61	CHISELED X
105	CP	431524.540	2540487.270	94.42	PK NAIL
106	CP	431576.500	2540191.430	94.21	PK NAIL
107	CP	430936.100	2540495.410	98.79	7" SPIKE
108	CP	430640.720	2540568.940	104.14	7" SPIKE

CONTROL / BENCHMARK POINT DATA					
POINT NO.	FEATURE	NORTHING	EASTING	ELEVATION	DESCRIPTION
1039	BM	430533.840	2540326.820	107.48	BM1
1705	BM	430570.100	2540713.420	105.27	BM2
2042	BM	430553.910	2541184.360	108.10	BM3
2628	BM	430568.520	2541644.820	110.61	BM4
3044	BM	430577.380	2542026.440	113.94	BM5
3736	BM	430585.990	2542531.310	114.82	BM6
4538	BM	430487.590	2543024.500	112.66	BM7
4592	BM	431582.200	2540224.270	96.50	BM8
4593	BM	431556.210	2540717.290	97.49	BM9



NOTE:
PROPERTY LINES ARE APPROXIMATE AND
ARE SHOWN FOR INFORMATION ONLY.

W. BRADLEY ROAD ALIGNMENT STA 6+00 - 15+00



W. BRADLEY ROAD ALIGNMENT STA 15+00 - 24+00

DES BY	AJS	BOOK NO	----
DR BY	AJS	PROJ NO	24-0266.03
CHK BY	KKA	DATE	JANUARY 2015

NO	DATE	REVISION	NO	DATE	REVISION
1	1/05/15	BID DOCUMENTS	####		
####			####		
####			####		

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

PROJECT OVERVIEW SHEET

SHEET NO
G003

AA-Standard.stb
1/5/2015
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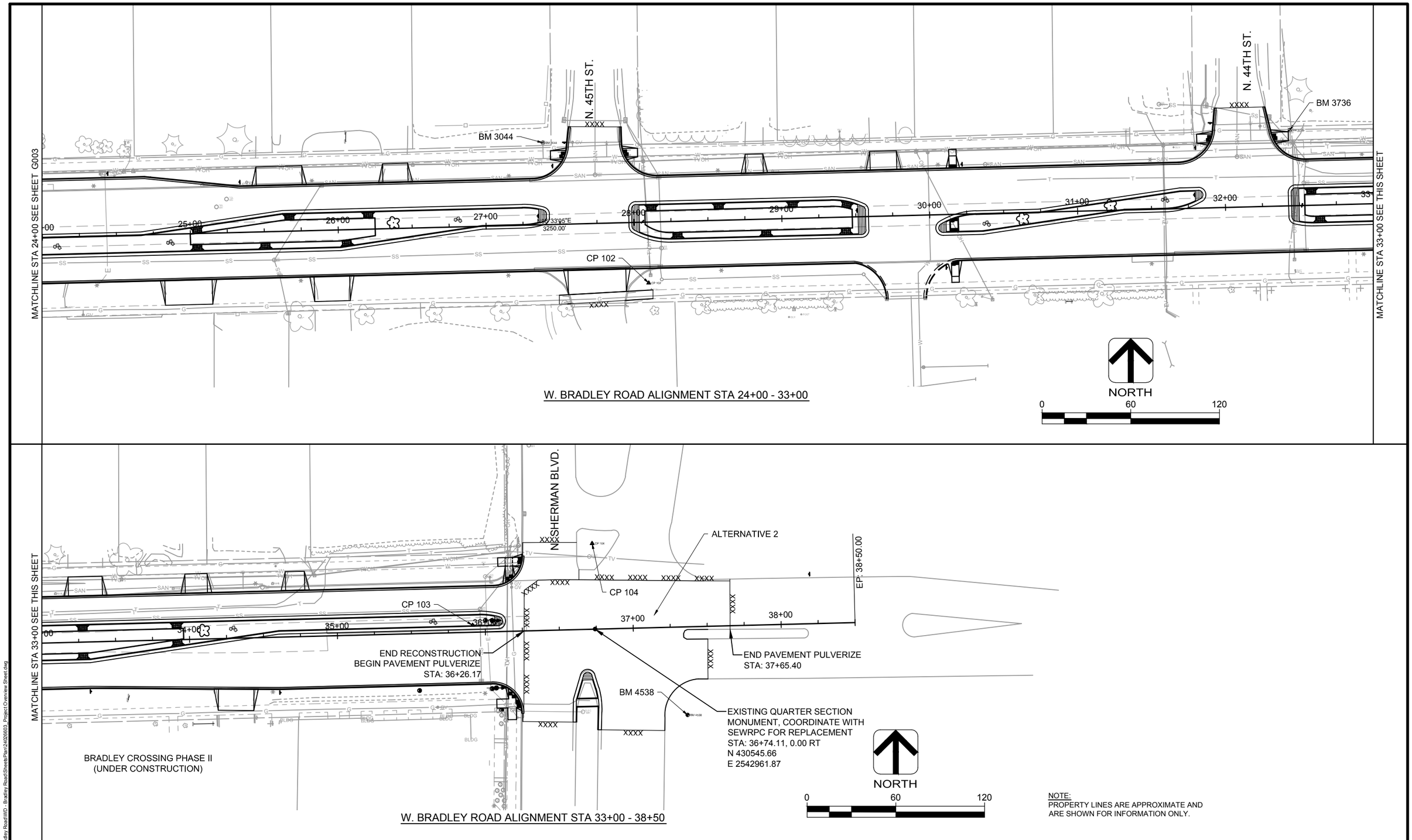

W. BRADLEY ROAD ALIGNMENT STA 24+00 - 33+00

W. BRADLEY ROAD ALIGNMENT STA 33+00 - 38+50

NOTE:
PROPERTY LINES ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY.

DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			AYRES ASSOCIATES WAUKESHA, WI
CHK BY KKA	DATE JANUARY 2015	####			####			PROJECT OVERVIEW SHEET
		NO	DATE	REVISION	NO	DATE	REVISION	SHEET NO G004

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1/5/2015
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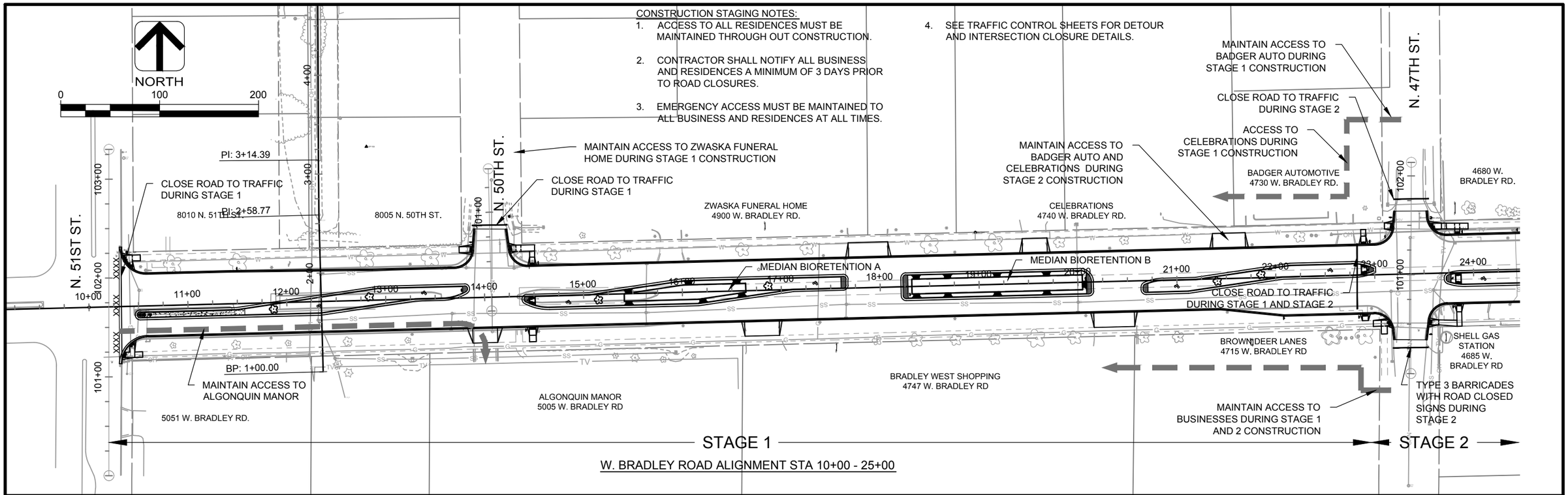
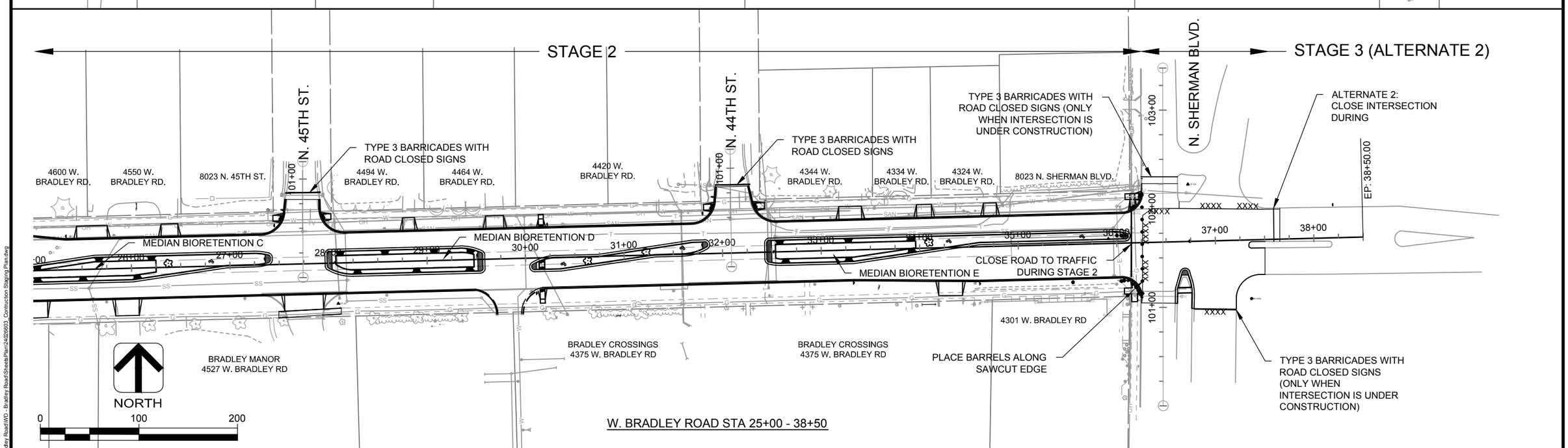
CONSTRUCTION STAGING NOTES:

1. ACCESS TO ALL RESIDENCES MUST BE MAINTAINED THROUGH OUT CONSTRUCTION.
2. CONTRACTOR SHALL NOTIFY ALL BUSINESS AND RESIDENCES A MINIMUM OF 3 DAYS PRIOR TO ROAD CLOSURES.
3. EMERGENCY ACCESS MUST BE MAINTAINED TO ALL BUSINESS AND RESIDENCES AT ALL TIMES.
4. SEE TRAFFIC CONTROL SHEETS FOR DETOUR AND INTERSECTION CLOSURE DETAILS.



W. BRADLEY ROAD ALIGNMENT STA 10+00 - 25+00



W. BRADLEY ROAD STA 25+00 - 38+50

DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	####		
DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

CONSTRUCTION STAGING PLAN

SHEET NO
G005

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1/5/2015
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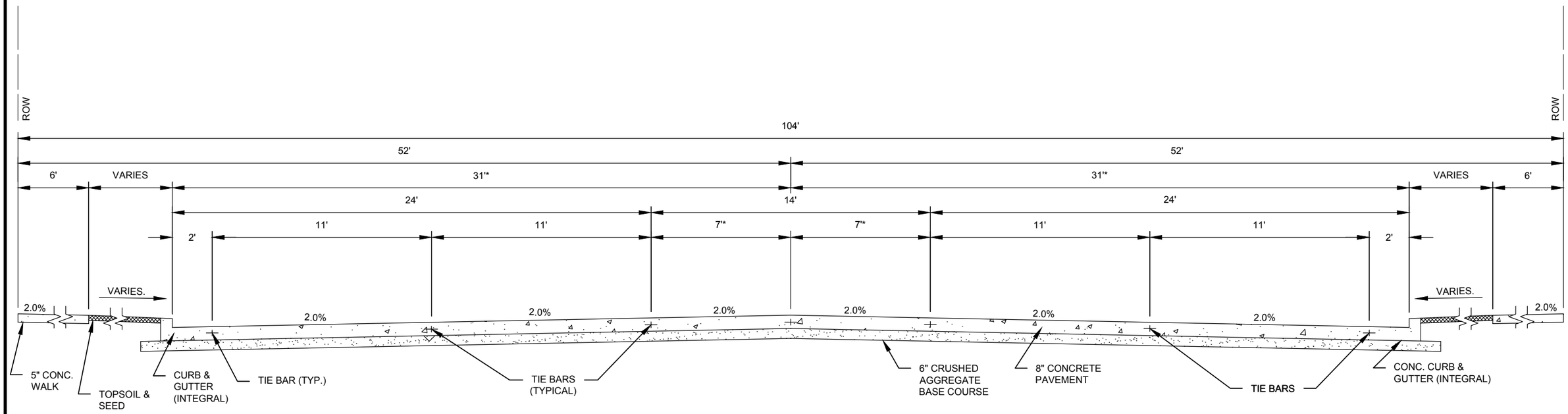

EXISTING TYPICAL SECTION

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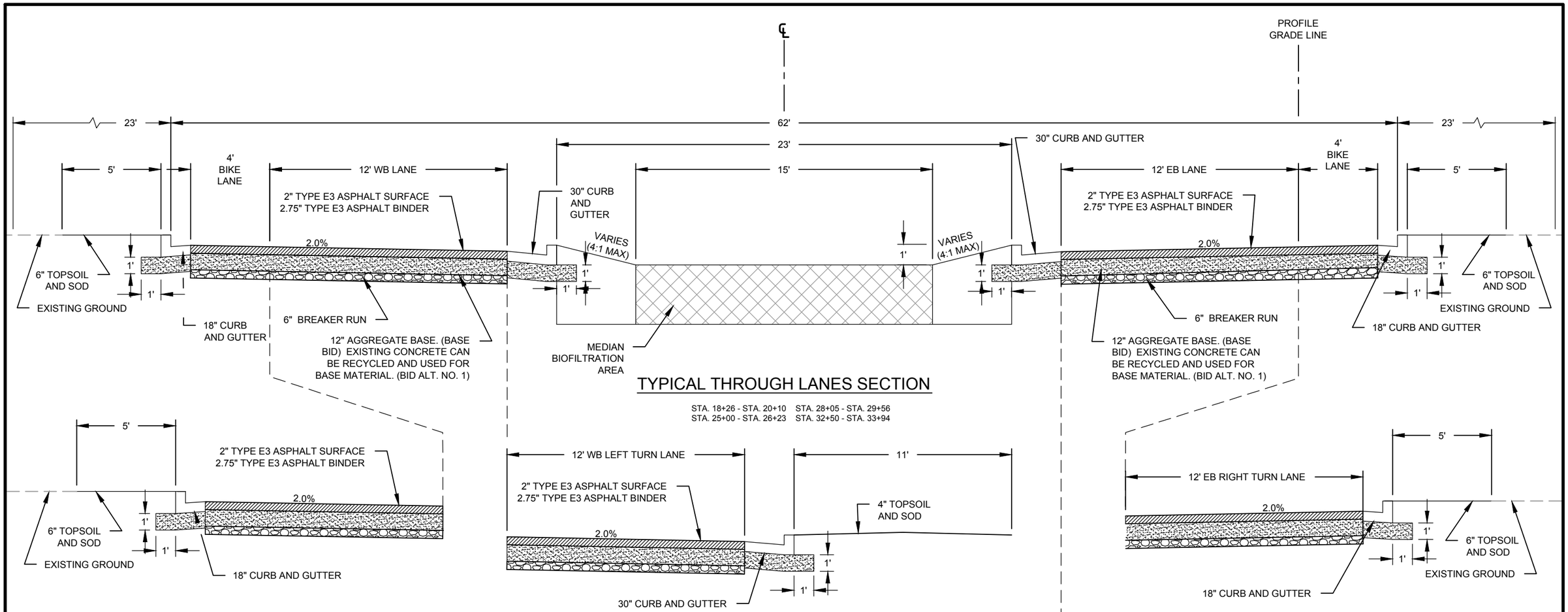
DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			
CHK BY KKA	DATE JANUARY 2015	####			####			
		NO	DATE	REVISION	NO	DATE	REVISION	

AYRES ASSOCIATES
WAUKESHA, WI

EXISTING TYPICAL SECTION

SHEET NO
G006



TYPICAL THROUGH LANES SECTION

STA. 18+26 - STA. 20+10 STA. 28+05 - STA. 29+56
STA. 25+00 - STA. 26+23 STA. 32+50 - STA. 33+94

TYPICAL WB RIGHT LANE SECTION

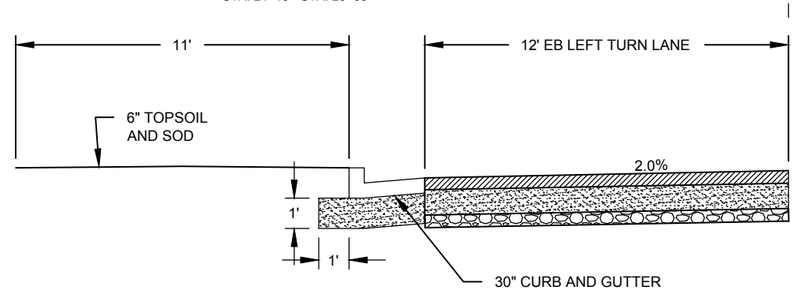
STA. 10+30 - STA. 11+49
STA. 23+75 - STA. 24+45

TYPICAL WB LEFT TURN LANE SECTION

STA. 10+30 - STA. 11+49 STA. 22+80 - STA. 24+45
STA. 14+40 - STA. 14+92 STA. 30+06 - STA. 30+59
STA. 21+19 - STA. 20+68

TYPICAL EB RIGHT LANE SECTION

STA. 22+25 - STA. 22+94
STA. 34+61 - STA. 36+04



TYPICAL EB LEFT TURN LANE SECTION

STA. 13+30 - STA. 13+82 STA. 26+98 - STA. 27+46
STA. 17+12 - STA. 17+60 STA. 31+92 - STA. 31+84
STA. 22+25 - STA. 22+90 STA. 34+61 - STA. 36+09

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1/5/2015
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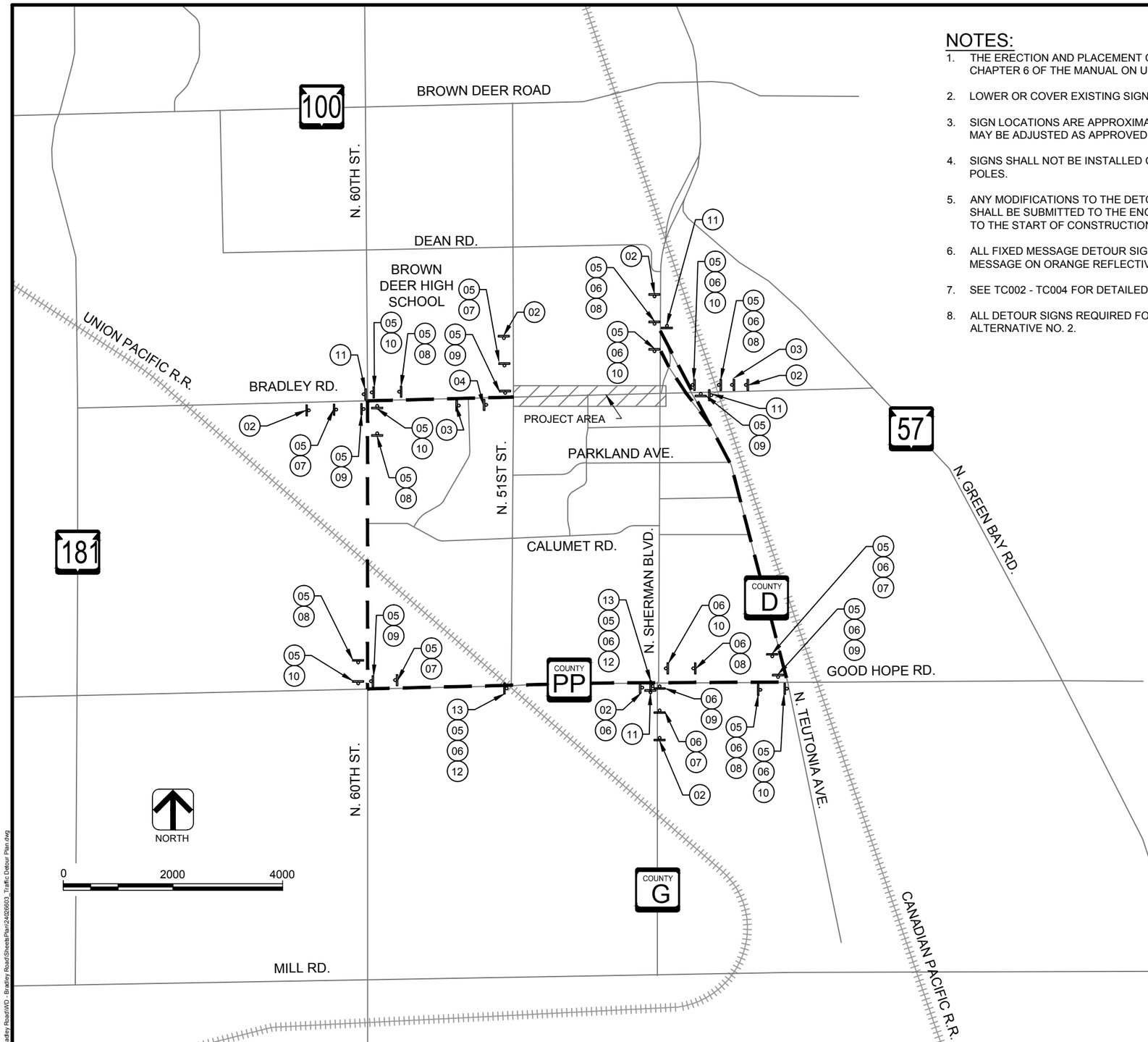
DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####		
DR BY AJS	PROJ NO 24-0266.03	####			####		
CHK BY KKA	DATE JANUARY 2015	####			####		
		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

PROPOSED TYPICAL SECTIONS

SHEET NO
G007



NOTES:

1. THE ERECTION AND PLACEMENT OF SIGNS SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. LOWER OR COVER EXISTING SIGNS THAT CONFLICT WITH DETOUR TRAFFIC.
3. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS APPROVED BY THE ENGINEER TO MEET CONDITIONS.
4. SIGNS SHALL NOT BE INSTALLED ON EXISTING SIGN POSTS OR UTILITY POLES.
5. ANY MODIFICATIONS TO THE DETOUR PLAN OR TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
6. ALL FIXED MESSAGE DETOUR SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND.
7. SEE TC002 - TC004 FOR DETAILED TRAFFIC CONTROL ALONG BRADLEY RD.
8. ALL DETOUR SIGNS REQUIRED FOR SHERMAN BLVD. SHALL BE PART OF ALTERNATIVE NO. 2.

LEGEND

- DETOUR ROUTE
- POST MOUNTED SIGN
- LOCAL ROAD
- COUNTY A — COUNTY HIGHWAY
- 00 — STATE HIGHWAY

DETOUR SIGN LEGEND

01	ROAD WORK AHEAD W20-1-A	06	SHERMAN BLVD 30"X24"	11	END DETOUR M4-8A 24"X18"
02	DETOUR AHEAD W20-2-A	07	DETOUR M4-9R (MOD.) 30"X24"	12	M6-1 21"X21"
03	ROAD CLOSED AHEAD W20-3-A	08	DETOUR M4-9L (MOD.) 30"X24"	13	DETOUR M4-8 24"X12"
04	RIGHT LANE CLOSED 500 FT W20-5-D	09	DETOUR M4-9R 30"X24"		
05	BRADLEY ROAD 30"X24"	10	DETOUR M4-9L 30"X24"		

DES BY AJS	BOOK NO ---	1	1/05/15	BID DOCUMENTS	####		
DR BY AJS	PROJ NO 24-0266.03	####			####		
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		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

TRAFFIC DETOUR PLAN

SHEET NO
TC001

AA-Standard.stb
1/5/2015
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LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT

NOTES:

1. THE ERECTION AND PLACEMENT OF SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. LOWER OR COVER EXISTING SIGNS THAT CONFLICT WITH DETOUR TRAFFIC.
3. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS APPROVED BY THE ENGINEER TO MEET CONDITIONS.
4. SIGNS SHALL NOT BE INSTALLED ON EXISTING SIGN POSTS OR UTILITY POLES.
5. ANY MODIFICATIONS TO THE DETOUR PLAN OR TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
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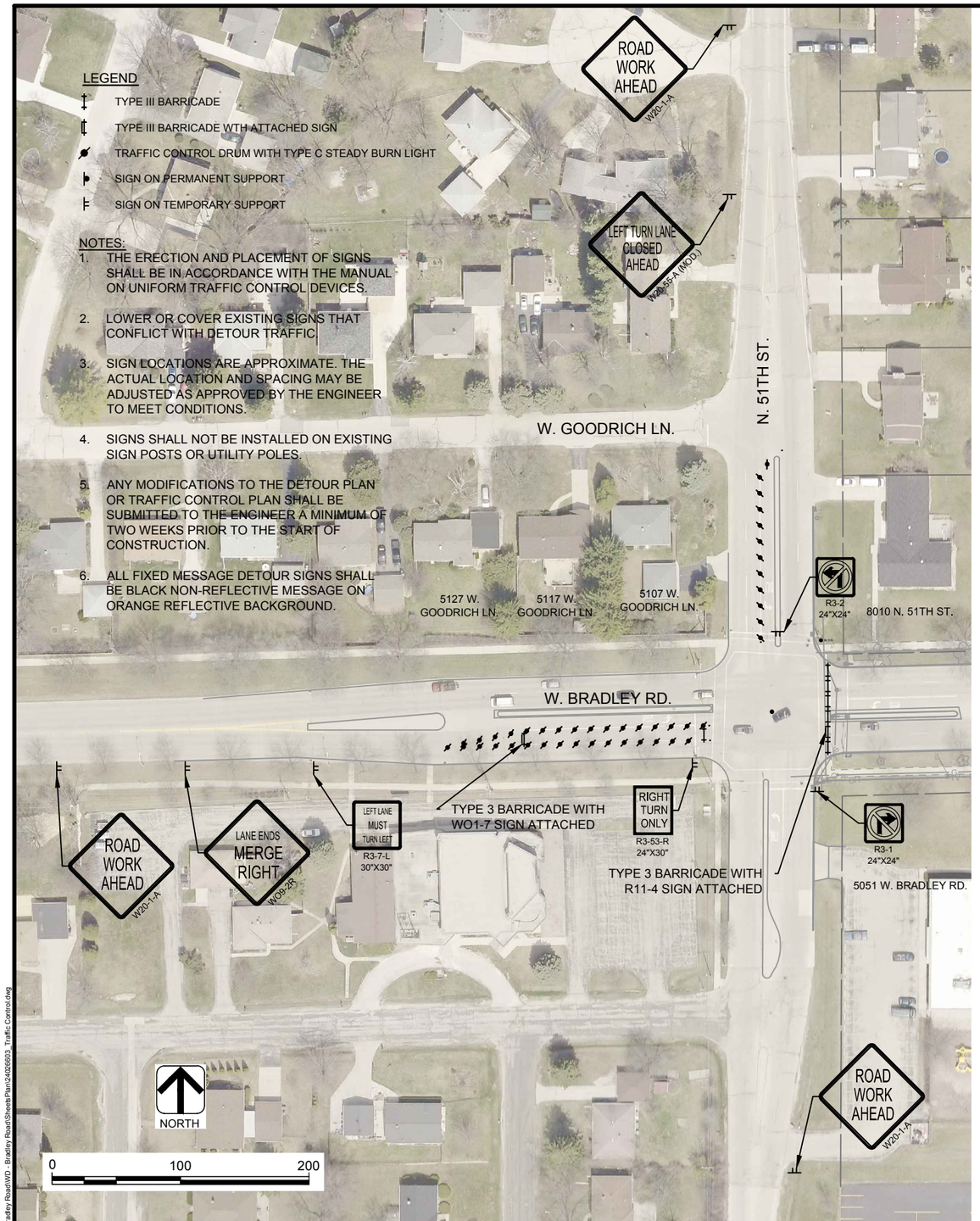

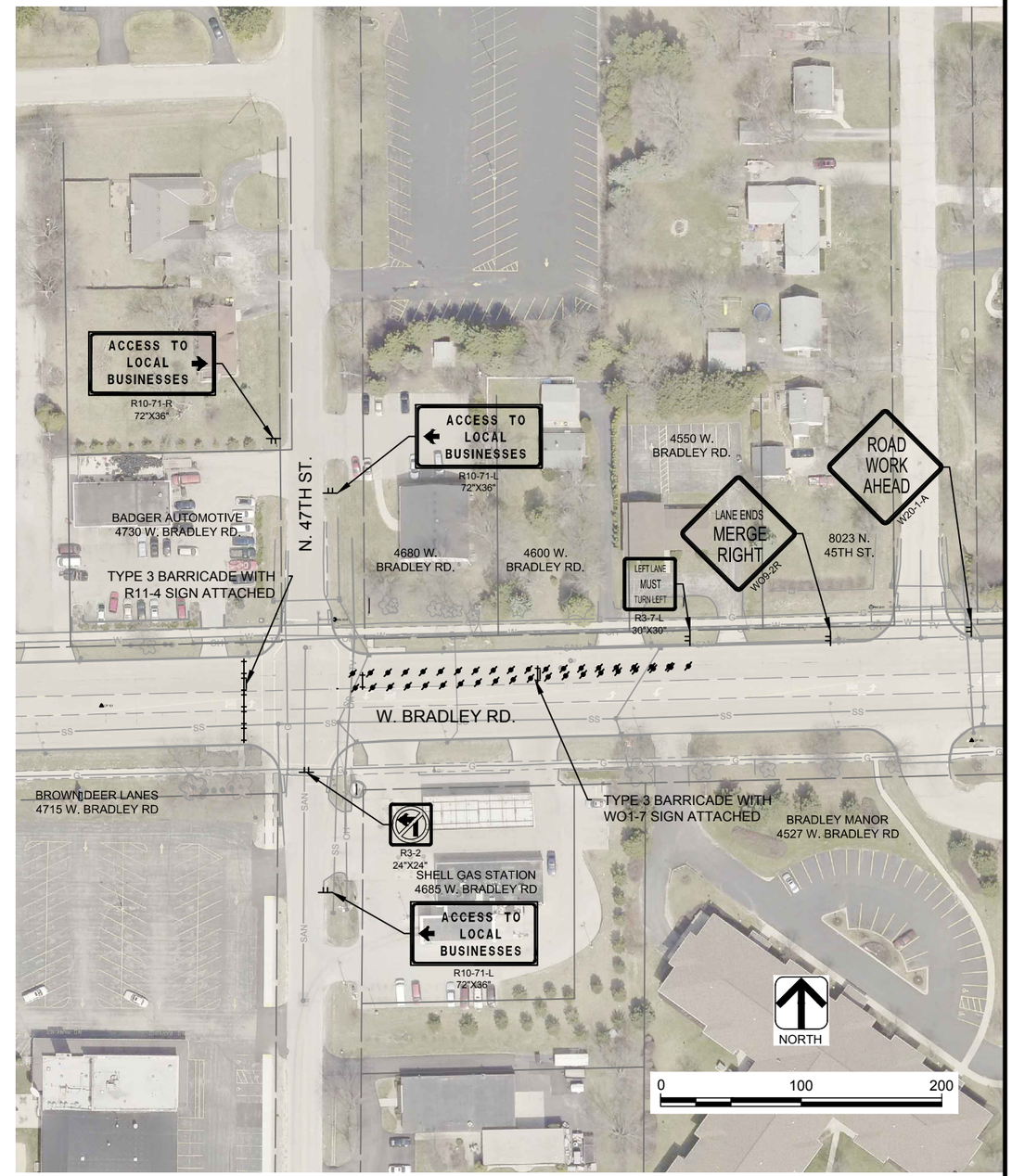

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CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

STAGE 1 TRAFFIC CONTROL PLAN

SHEET NO
TC002

AA-Standard.stb
1/5/2015
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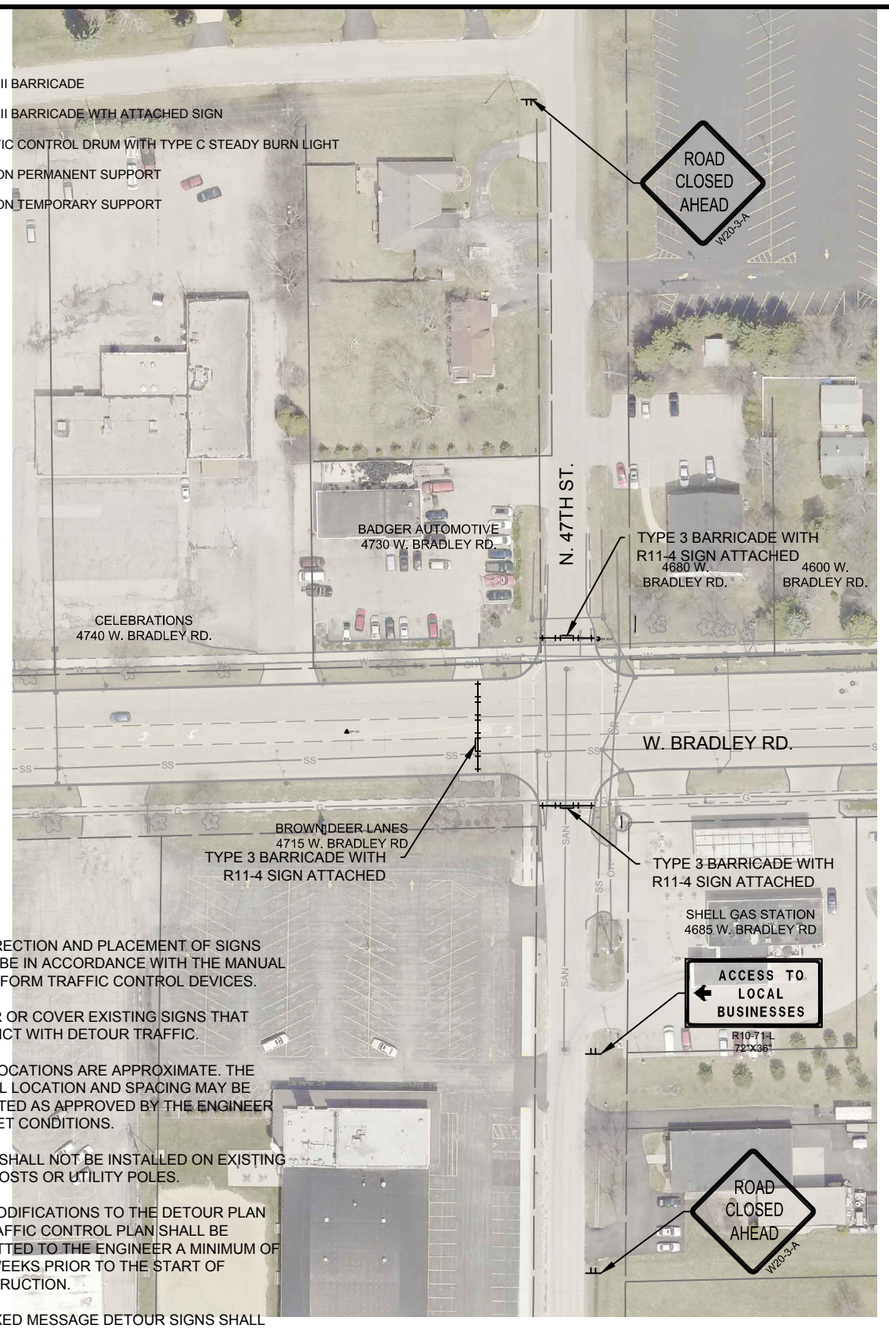
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT



NOTES:

1. THE ERECTION AND PLACEMENT OF SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. LOWER OR COVER EXISTING SIGNS THAT CONFLICT WITH DETOUR TRAFFIC.
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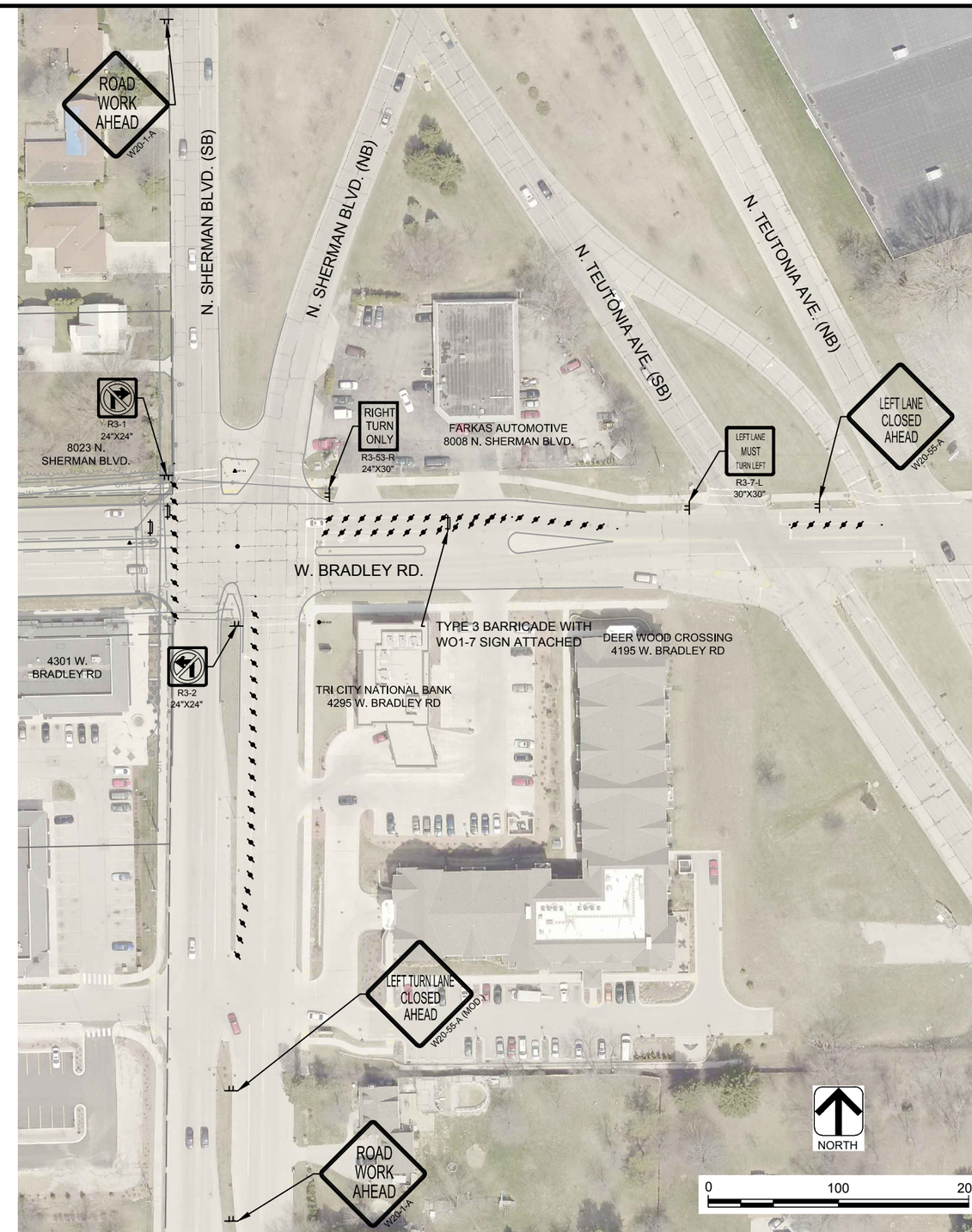
6. ALL FIXED MESSAGE DETOUR SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND.



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DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

STAGE 2 TRAFFIC CONTROL PLAN

SHEET NO
TC003

AA-Standard.stb
1/5/2015
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LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT

NOTES:

1. THE ERECTION AND PLACEMENT OF SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. LOWER OR COVER EXISTING SIGNS THAT CONFLICT WITH DETOUR TRAFFIC.
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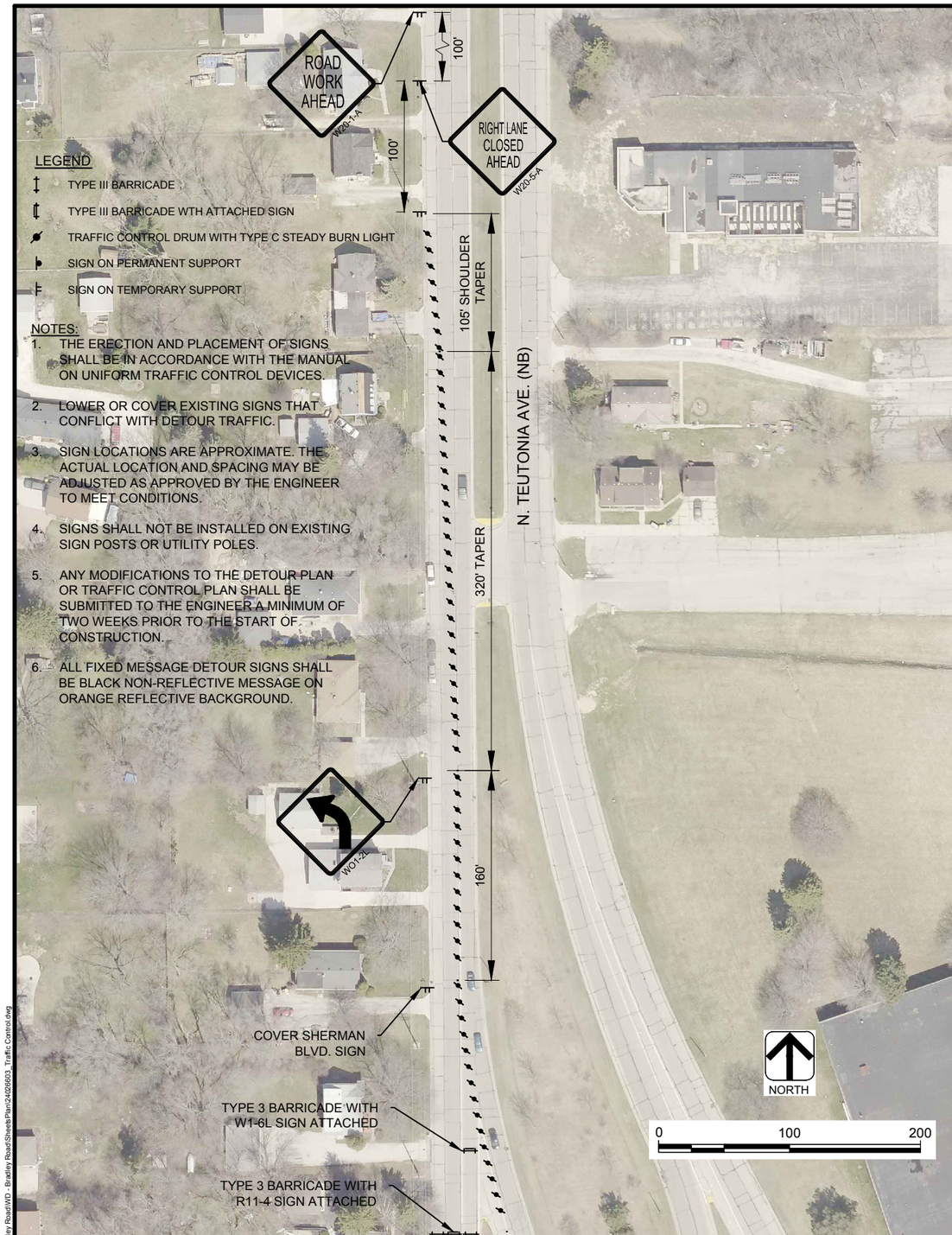

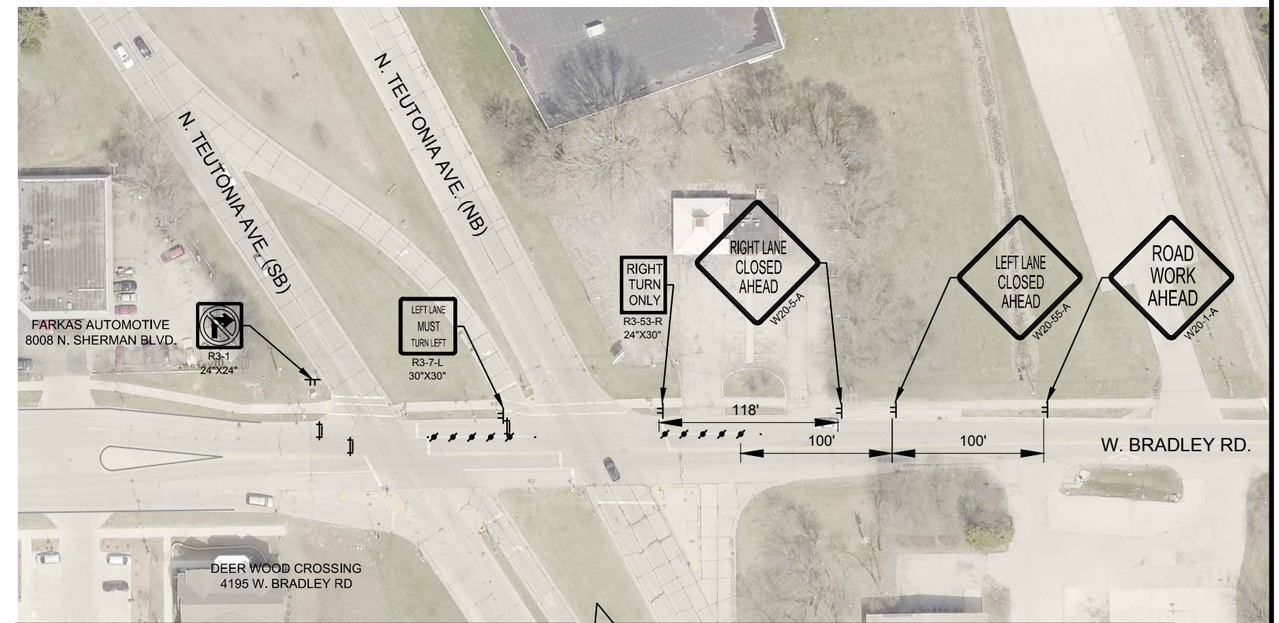

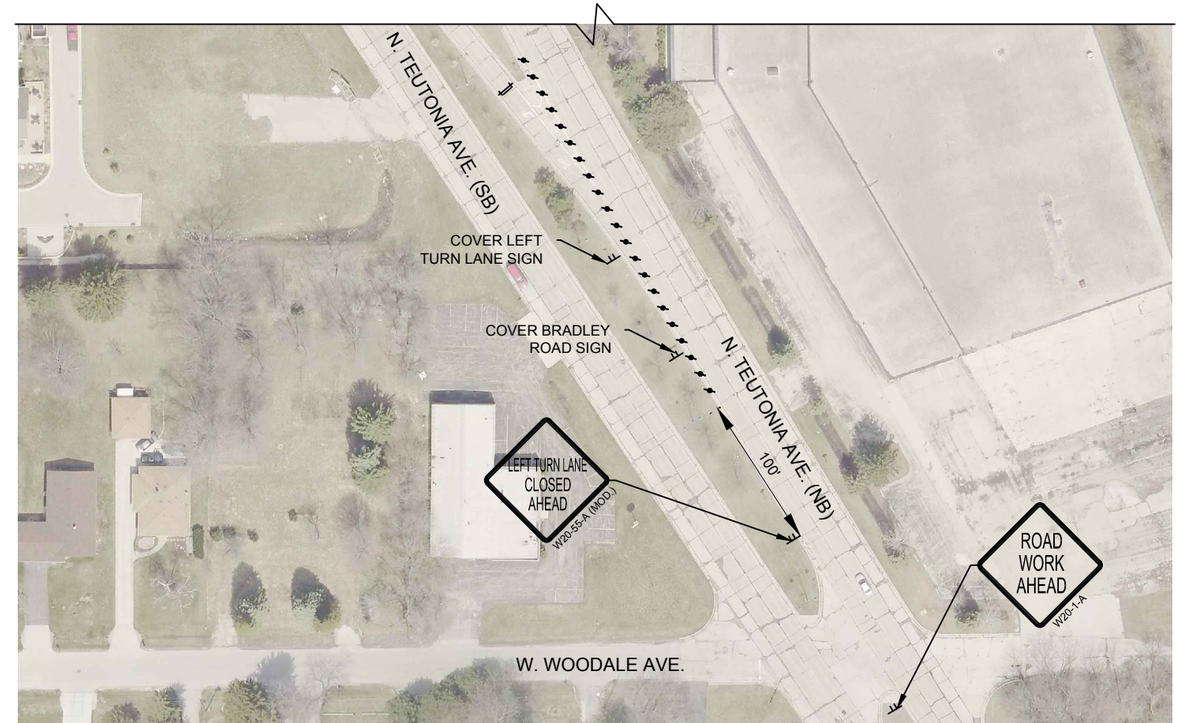

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CHK BY KKA	DATE JANUARY 2015	####			####		
		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

STAGE 3 TRAFFIC CONTROL PLAN (ALTERNATE 2)

SHEET NO
TC004

AA-Standard.stb
1/5/2015
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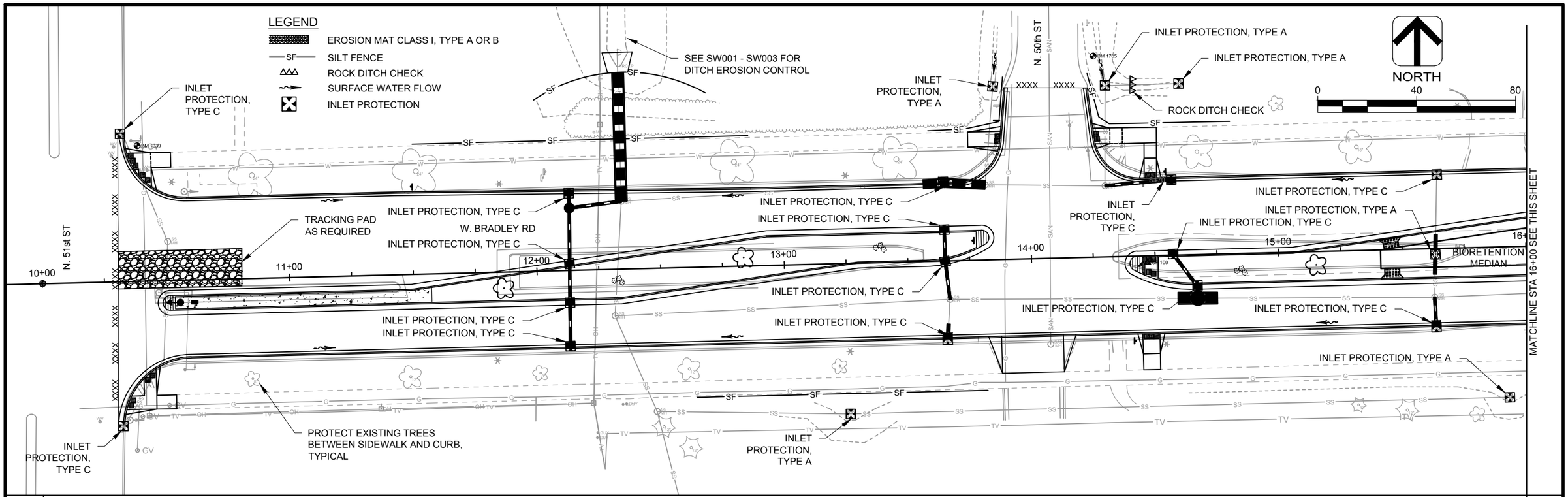

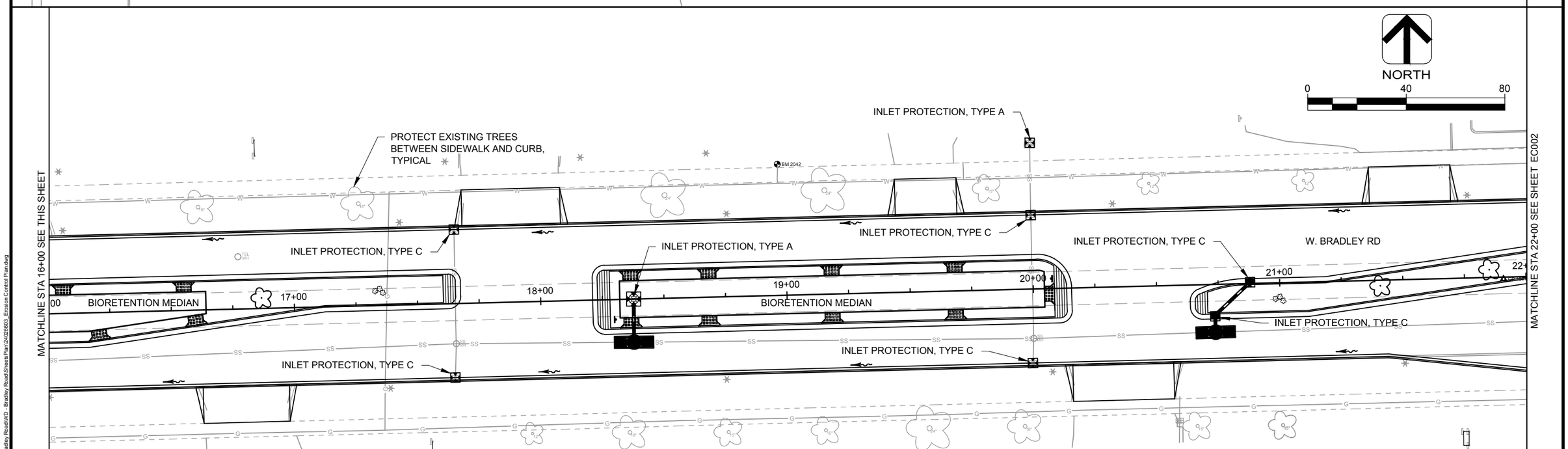

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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

EROSION CONTROL PLAN STA 10+00 - STA 22+00

SHEET NO
EC001

AA-Standard.stb
1/5/2015
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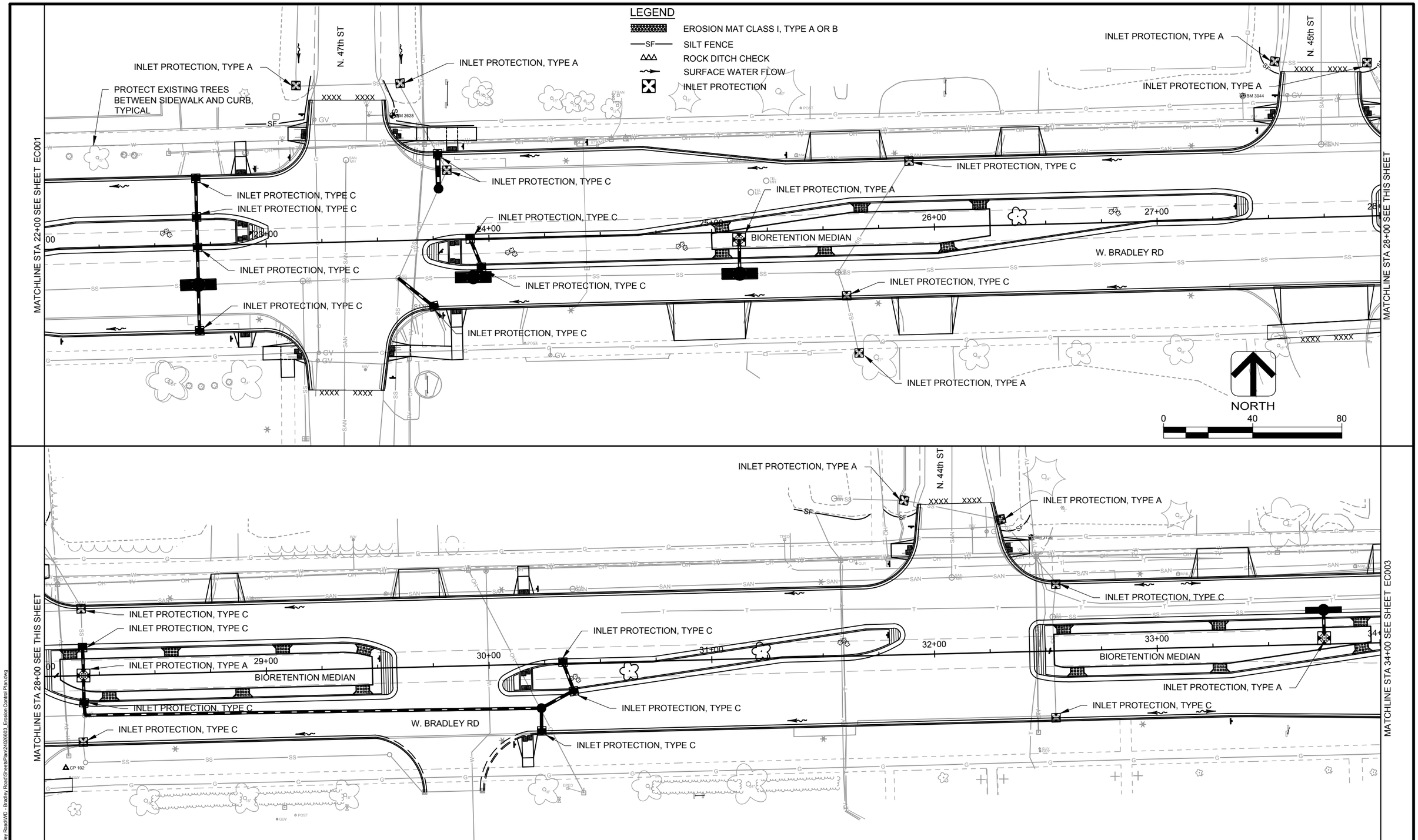

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DR BY	AJS	PROJ NO	24-0266.03	####			####		
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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

EROSION CONTROL PLAN STA 22+00 - STA 34+00

SHEET NO
EC002

AA-Standard.stb
1/5/2015
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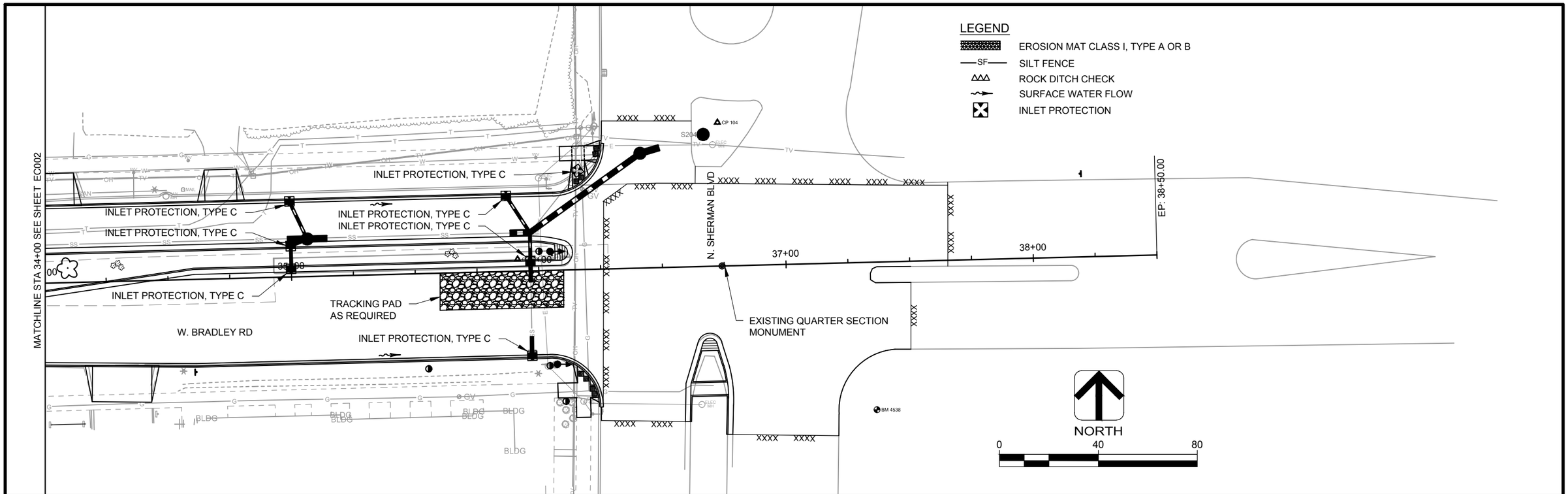

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DR BY AJS	PROJ NO 24-0266.03	####			####			
CHK BY KKA	DATE JANUARY 2015	####			####			
		NO	DATE	REVISION	NO	DATE	REVISION	

AYRES ASSOCIATES
WAUKESHA, WI

EROSION CONTROL PLAN STA 34+00 - STA 36+75

SHEET NO
EC003

AA-Standard.stb
1/5/2015
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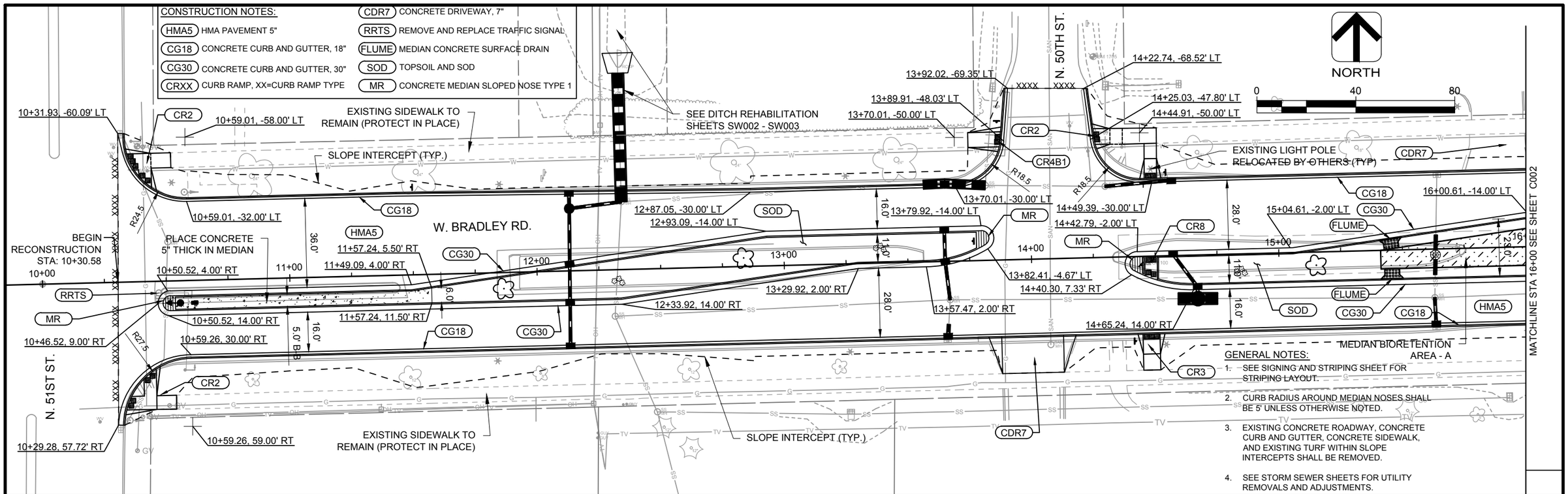
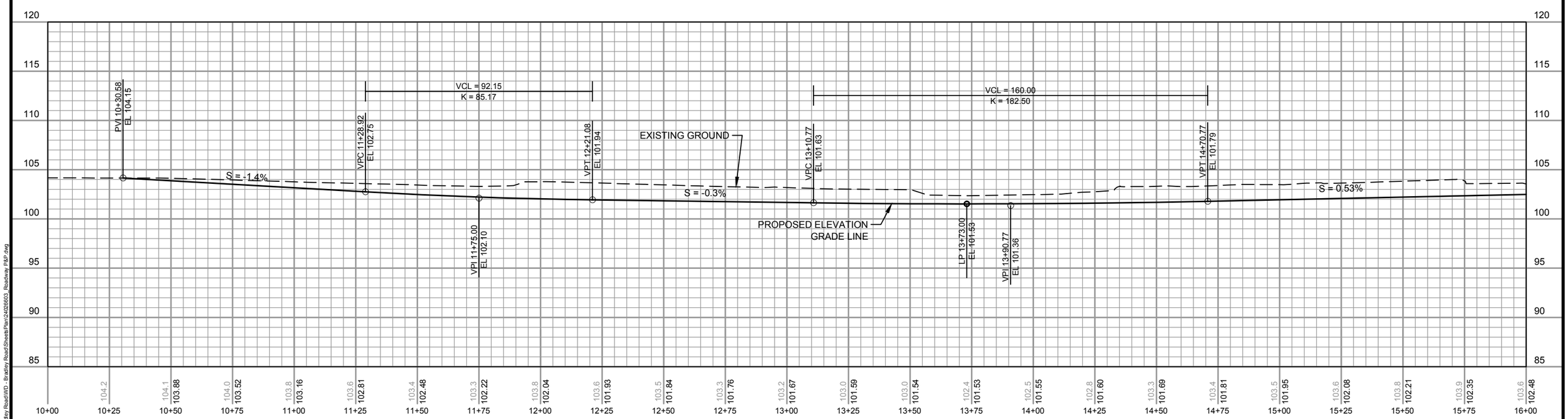
CONSTRUCTION NOTES:

HMA5	HMA PAVEMENT 5"	CDR7	CONCRETE DRIVEWAY, 7"
CG18	CONCRETE CURB AND GUTTER, 18"	RRTS	REMOVE AND REPLACE TRAFFIC SIGNAL
CG30	CONCRETE CURB AND GUTTER, 30"	FLUME	MEDIAN CONCRETE SURFACE DRAIN
CRXX	CURB RAMP, XX=CURB RAMP TYPE	SOD	TOPSOIL AND SOD
		MR	CONCRETE MEDIAN SLOPED NOSE TYPE 1



GENERAL NOTES:

1. SEE SIGNING AND STRIPING SHEET FOR STRIPING LAYOUT.
2. CURB RADIUS AROUND MEDIAN NOSES SHALL BE 5' UNLESS OTHERWISE NOTED.
3. EXISTING CONCRETE ROADWAY, CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, AND EXISTING TURF WITHIN SLOPE INTERCEPTS SHALL BE REMOVED.
4. SEE STORM SEWER SHEETS FOR UTILITY REMOVALS AND ADJUSTMENTS.



DES BY	AJS	BOOK NO	----
DR BY	AJS	PROJ NO	24-0266.03
CHK BY	KKA	DATE	JANUARY 2015

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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

BRADLEY RD. PLAN AND PROFILE STA 10+00 - STA 16+00

SHEET NO C001

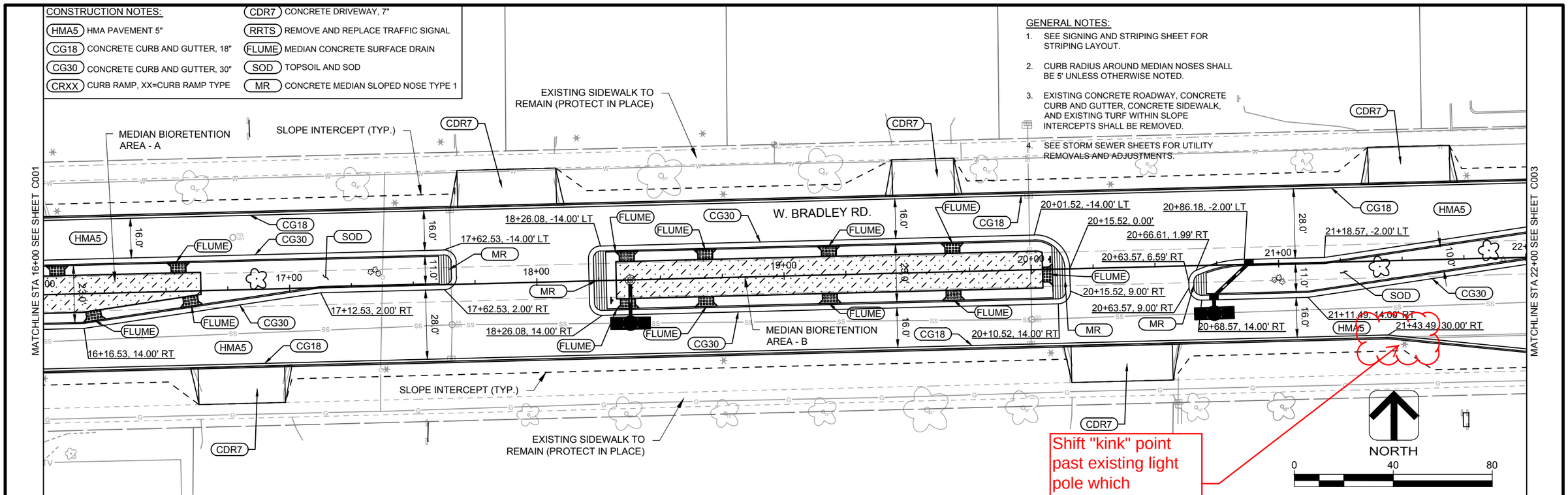
AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Roadway P&P.dwg

CONSTRUCTION NOTES:

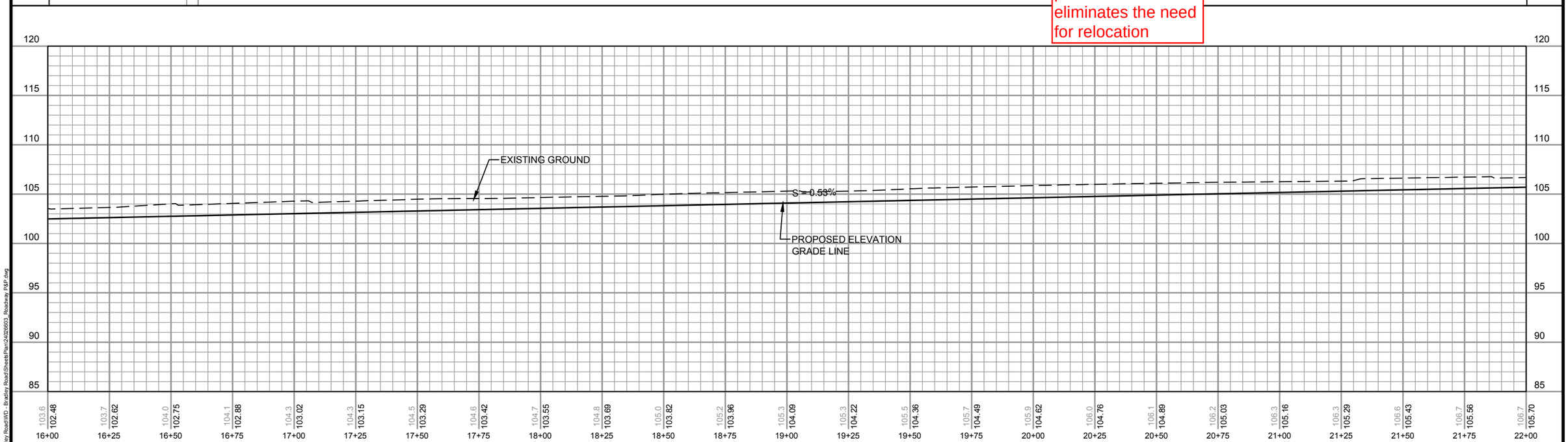
HMA5	HMA PAVEMENT 5"	CDR7	CONCRETE DRIVEWAY, 7"
CG18	CONCRETE CURB AND GUTTER, 18"	RRTS	REMOVE AND REPLACE TRAFFIC SIGNAL
CG30	CONCRETE CURB AND GUTTER, 30"	FLUME	MEDIAN CONCRETE SURFACE DRAIN
CRXX	CURB RAMP, XX=CURB RAMP TYPE	SOD	TOPSOIL AND SOD
		MR	CONCRETE MEDIAN SLOPED NOSE TYPE 1

GENERAL NOTES:

1. SEE SIGNING AND STRIPING SHEET FOR STRIPING LAYOUT.
2. CURB RADIUS AROUND MEDIAN NOSES SHALL BE 5' UNLESS OTHERWISE NOTED.
3. EXISTING CONCRETE ROADWAY, CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, AND EXISTING TURF WITHIN SLOPE INTERCEPTS SHALL BE REMOVED.
4. SEE STORM SEWER SHEETS FOR UTILITY REMOVALS AND ADJUSTMENTS.



Shift "kink" point past existing light pole which eliminates the need for relocation



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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

BRADLEY RD. PLAN AND PROFILE STA 16+00 - STA 22+00

SHEET NO C002

AA-Standard.stb
1/5/2015
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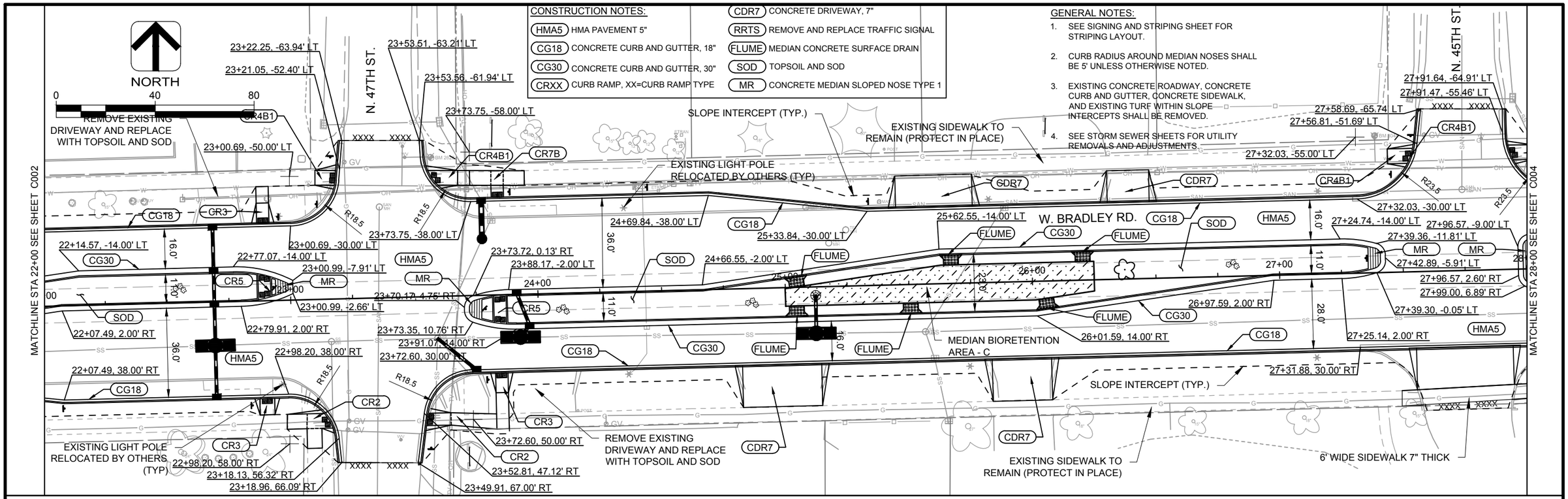
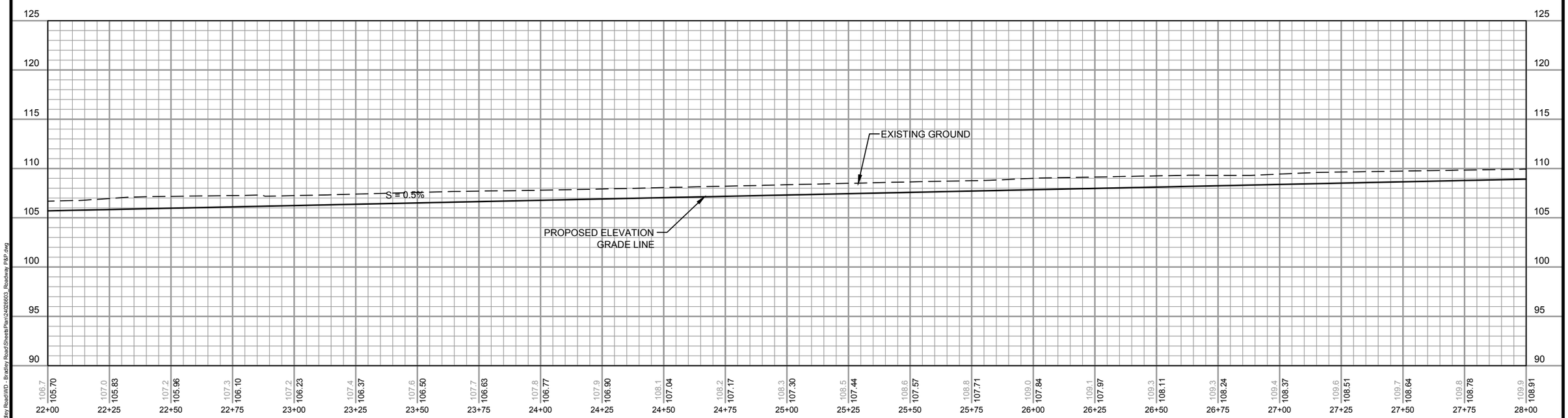
CONSTRUCTION NOTES:

HMA5	HMA PAVEMENT 5"	CDR7	CONCRETE DRIVEWAY, 7"
CG18	CONCRETE CURB AND GUTTER, 18"	RRTS	REMOVE AND REPLACE TRAFFIC SIGNAL
CG30	CONCRETE CURB AND GUTTER, 30"	FLUME	MEDIAN CONCRETE SURFACE DRAIN
CRXX	CURB RAMP, XX=CURB RAMP TYPE	SOD	TOPSOIL AND SOD
		MR	CONCRETE MEDIAN SLOPED NOSE TYPE 1

GENERAL NOTES:

1. SEE SIGNING AND STRIPING SHEET FOR STRIPING LAYOUT.
2. CURB RADIUS AROUND MEDIAN NOSES SHALL BE 5' UNLESS OTHERWISE NOTED.
3. EXISTING CONCRETE ROADWAY, CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, AND EXISTING TURF WITHIN SLOPE INTERCEPTS SHALL BE REMOVED.
4. SEE STORM SEWER SHEETS FOR UTILITY REMOVALS AND ADJUSTMENTS.





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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

BRADLEY RD. PLAN AND PROFILE STA 22+00 - STA 28+00

SHEET NO C003

AA-Standard.stb
1/5/2015
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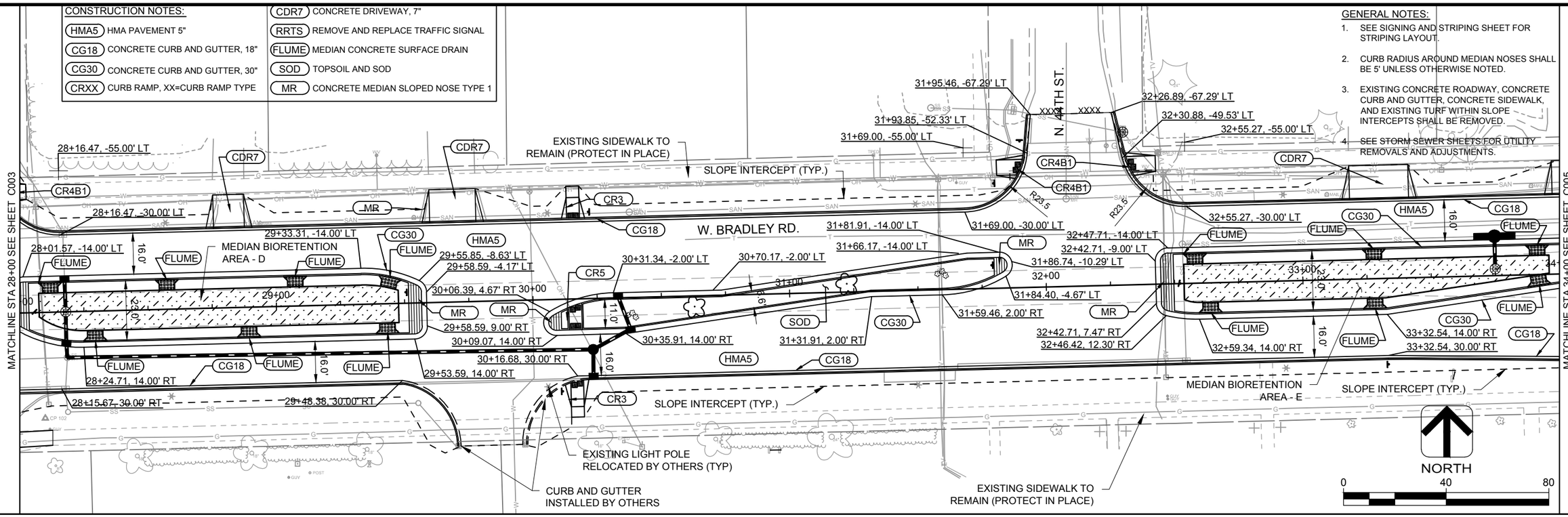
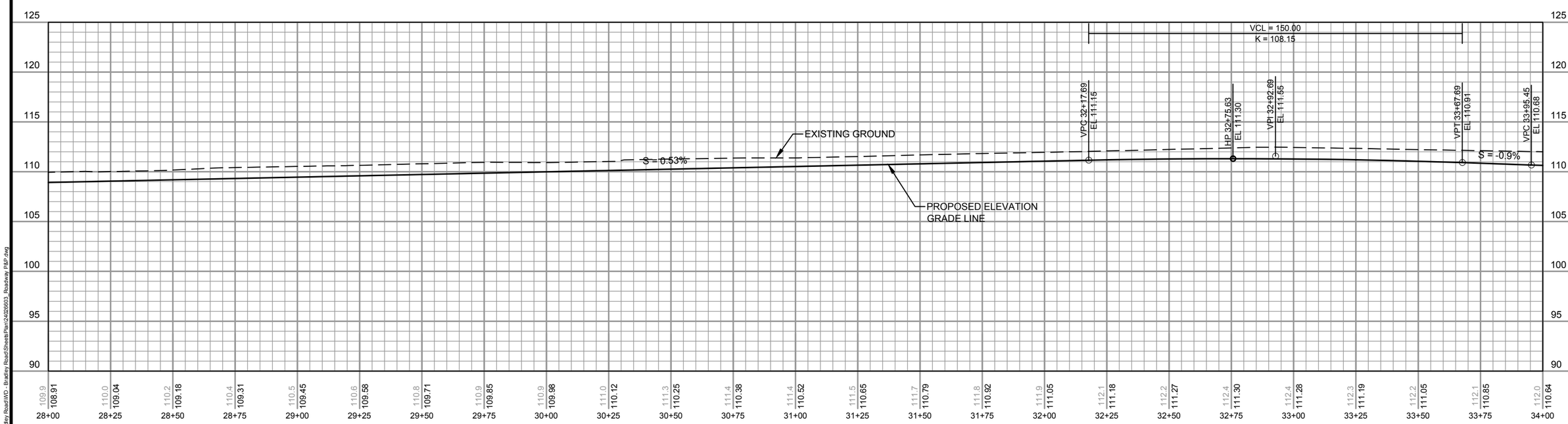
CONSTRUCTION NOTES:

HMA5	HMA PAVEMENT 5"	CDR7	CONCRETE DRIVEWAY, 7"
CG18	CONCRETE CURB AND GUTTER, 18"	RRTS	REMOVE AND REPLACE TRAFFIC SIGNAL
CG30	CONCRETE CURB AND GUTTER, 30"	FLUME	MEDIAN CONCRETE SURFACE DRAIN
CRXX	CURB RAMP, XX=CURB RAMP TYPE	SOD	TOPSOIL AND SOD
		MR	CONCRETE MEDIAN SLOPED NOSE TYPE 1

GENERAL NOTES:

1. SEE SIGNING AND STRIPING SHEET FOR STRIPING LAYOUT.
2. CURB RADIUS AROUND MEDIAN NOSES SHALL BE 5' UNLESS OTHERWISE NOTED.
3. EXISTING CONCRETE ROADWAY, CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, AND EXISTING TURF WITHIN SLOPE INTERCEPTS SHALL BE REMOVED.
4. SEE STORM SEWER SHEETS FOR UTILITY REMOVALS AND ADJUSTMENTS.





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DR BY AJS	PROJ NO 24-0266.03	####			####		
CHK BY KKA	DATE JANUARY 2015	####			####		
		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

BRADLEY RD. PLAN AND PROFILE STA 28+00 - STA 34+00

SHEET NO C004

AA-Standard.stb
1/5/2015
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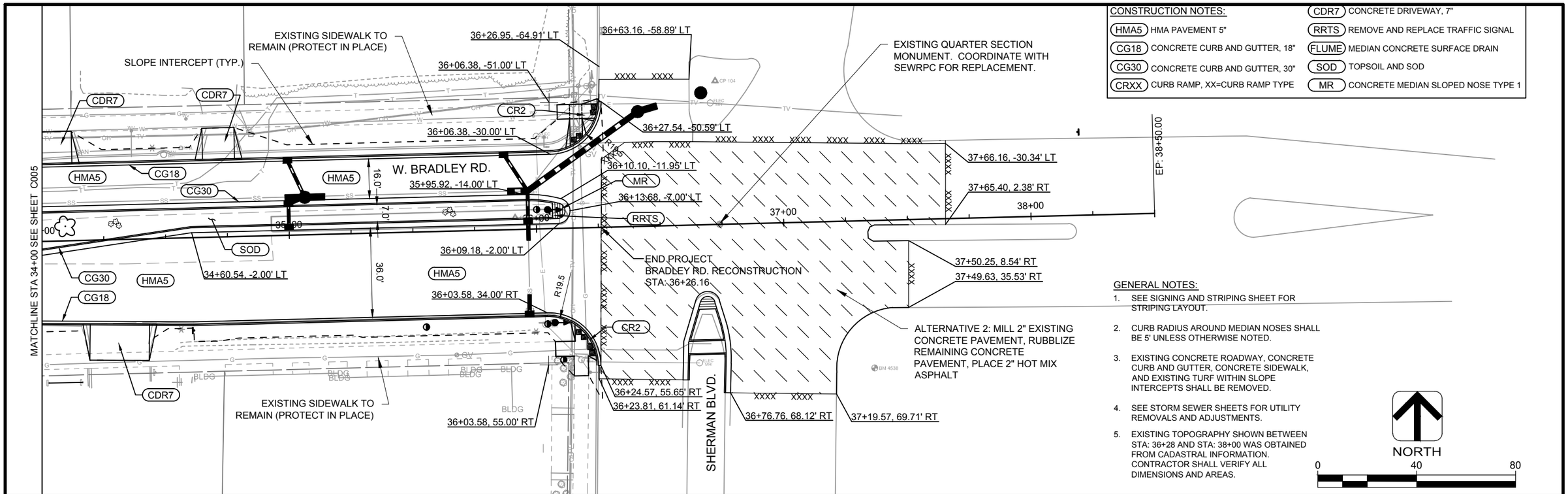
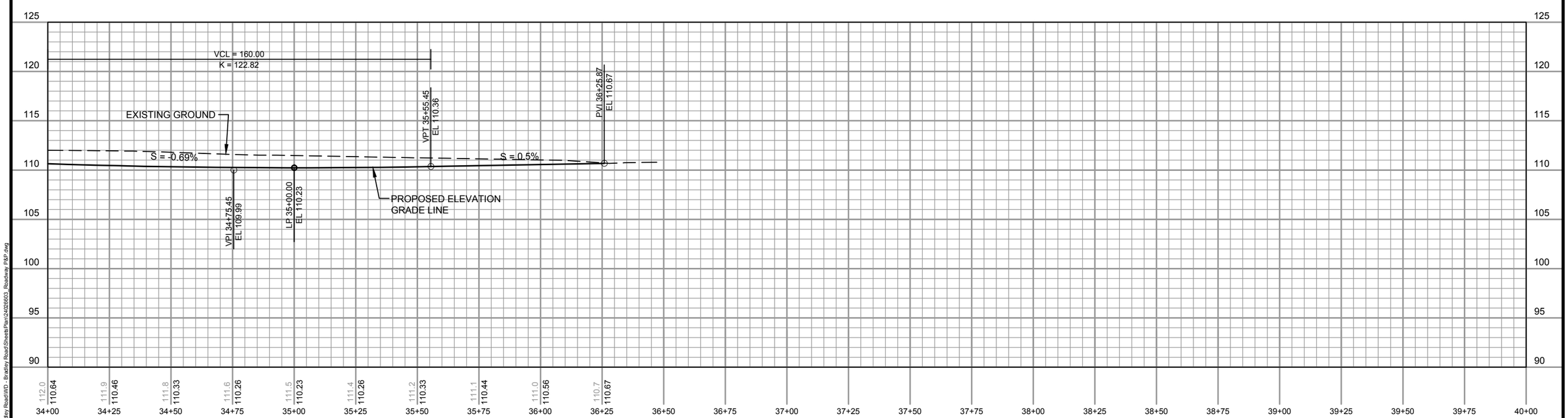


CONSTRUCTION NOTES:

HMA5	HMA PAVEMENT 5"	CDR7	CONCRETE DRIVEWAY, 7"
CG18	CONCRETE CURB AND GUTTER, 18"	RRTS	REMOVE AND REPLACE TRAFFIC SIGNAL
CG30	CONCRETE CURB AND GUTTER, 30"	FLUME	MEDIAN CONCRETE SURFACE DRAIN
CRXX	CURB RAMP, XX=CURB RAMP TYPE	SOD	TOPSOIL AND SOD
		MR	CONCRETE MEDIAN SLOPED NOSE TYPE 1

GENERAL NOTES:

1. SEE SIGNING AND STRIPING SHEET FOR STRIPING LAYOUT.
2. CURB RADIUS AROUND MEDIAN NOSES SHALL BE 5' UNLESS OTHERWISE NOTED.
3. EXISTING CONCRETE ROADWAY, CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, AND EXISTING TURF WITHIN SLOPE INTERCEPTS SHALL BE REMOVED.
4. SEE STORM SEWER SHEETS FOR UTILITY REMOVALS AND ADJUSTMENTS.
5. EXISTING TOPOGRAPHY SHOWN BETWEEN STA: 36+28 AND STA: 38+00 WAS OBTAINED FROM CADASTRAL INFORMATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND AREAS.



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CHK BY	KKA	DATE	JANUARY 2015	####			
				NO	DATE	REVISION	

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NO	DATE	REVISION	

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

BRADLEY RD. PLAN AND PROFILE STA 34+00 - STA 38+00

SHEET NO
C005

AA-Standard.stb
1/5/2015
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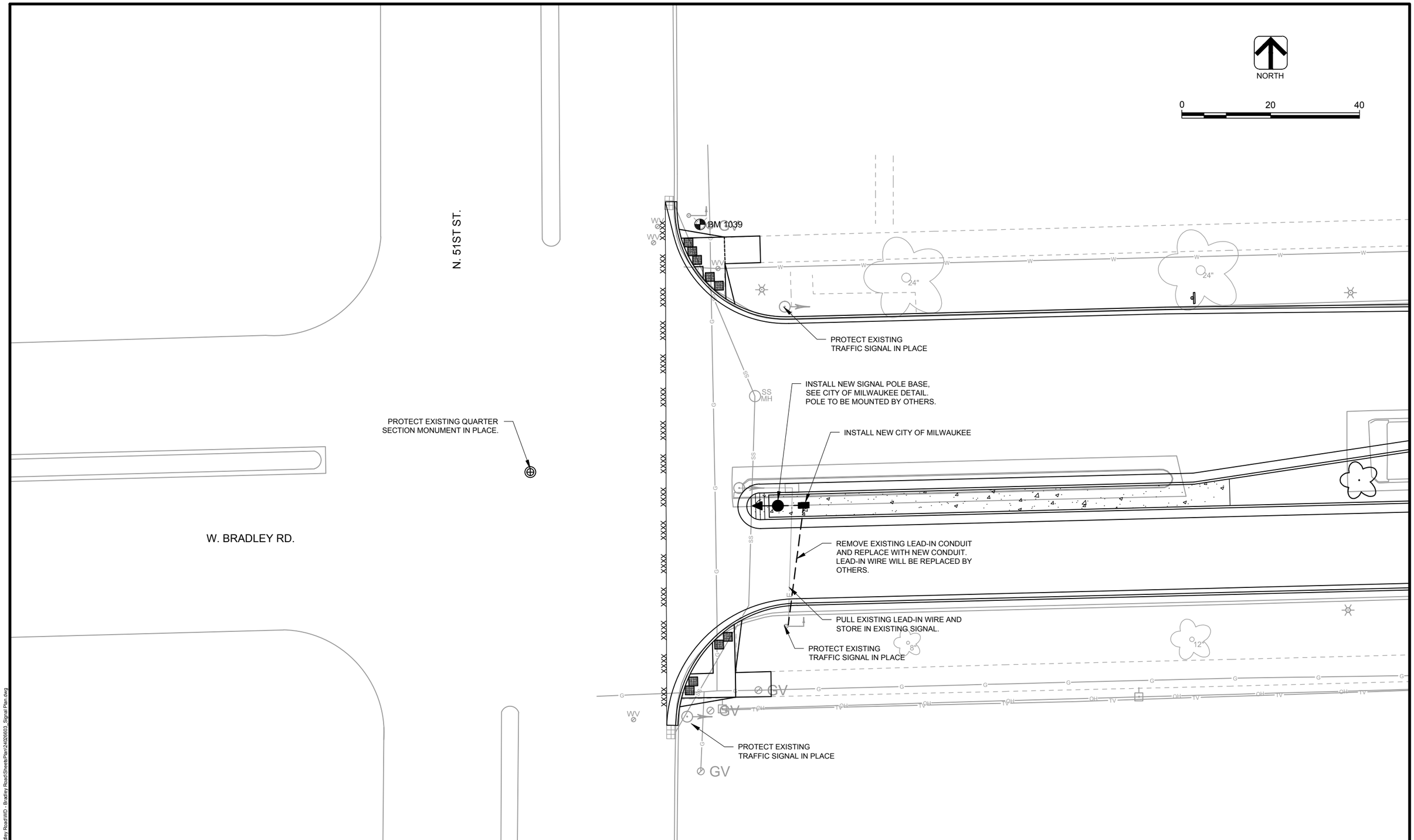


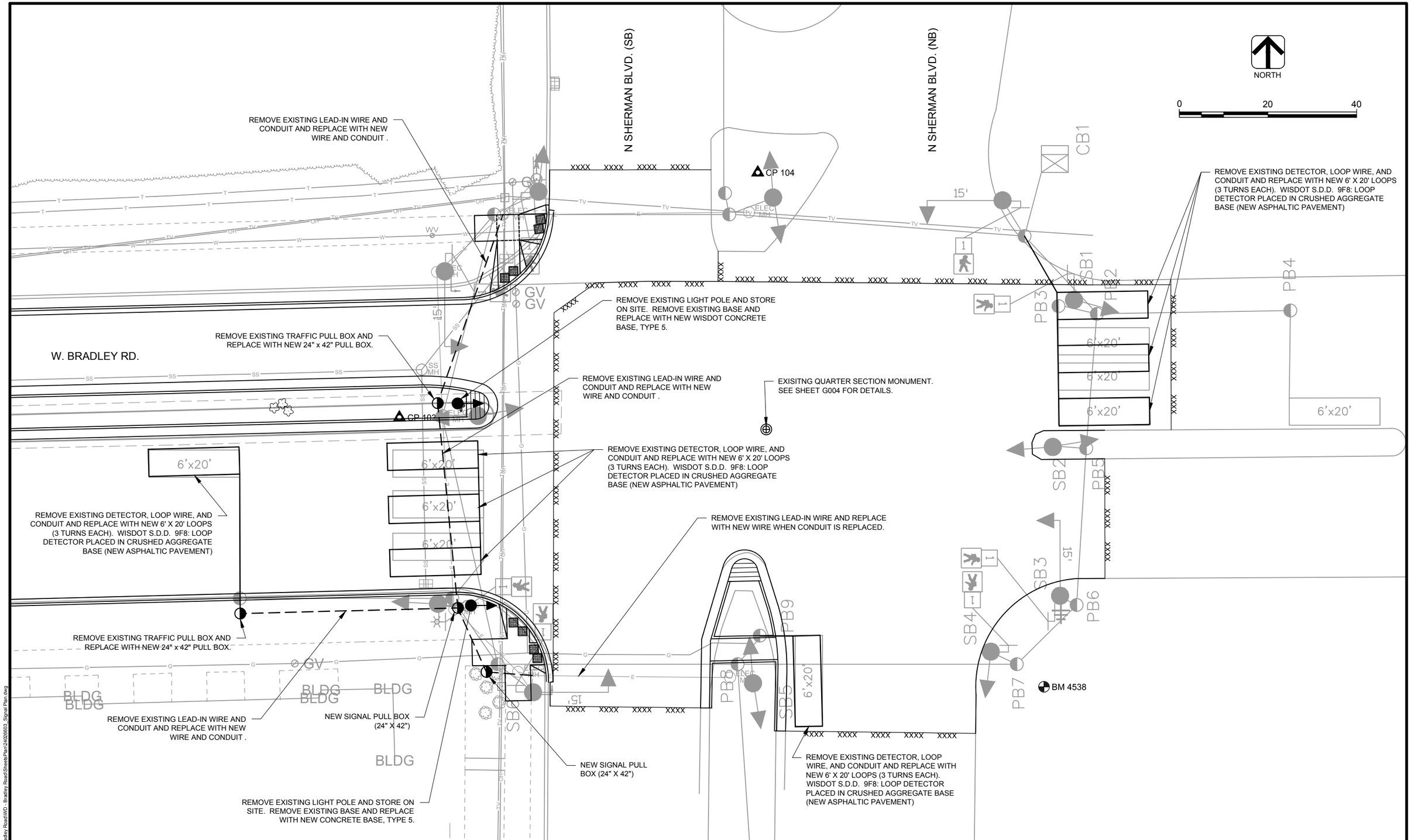
DES BY AJS	BOOK NO ---	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			
CHK BY KKA	DATE JANUARY 2015	####			####			
		NO	DATE	REVISION	NO	DATE	REVISION	

AYRES ASSOCIATES
WAUKESHA, WI

51ST ST. SIGNAL PLAN

SHEET NO
SP001

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Signal Plan.dwg



DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####		
DR BY AJS	PROJ NO 24-0266.03	####			####		
CHK BY KKA	DATE JANUARY 2015	####			####		
		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

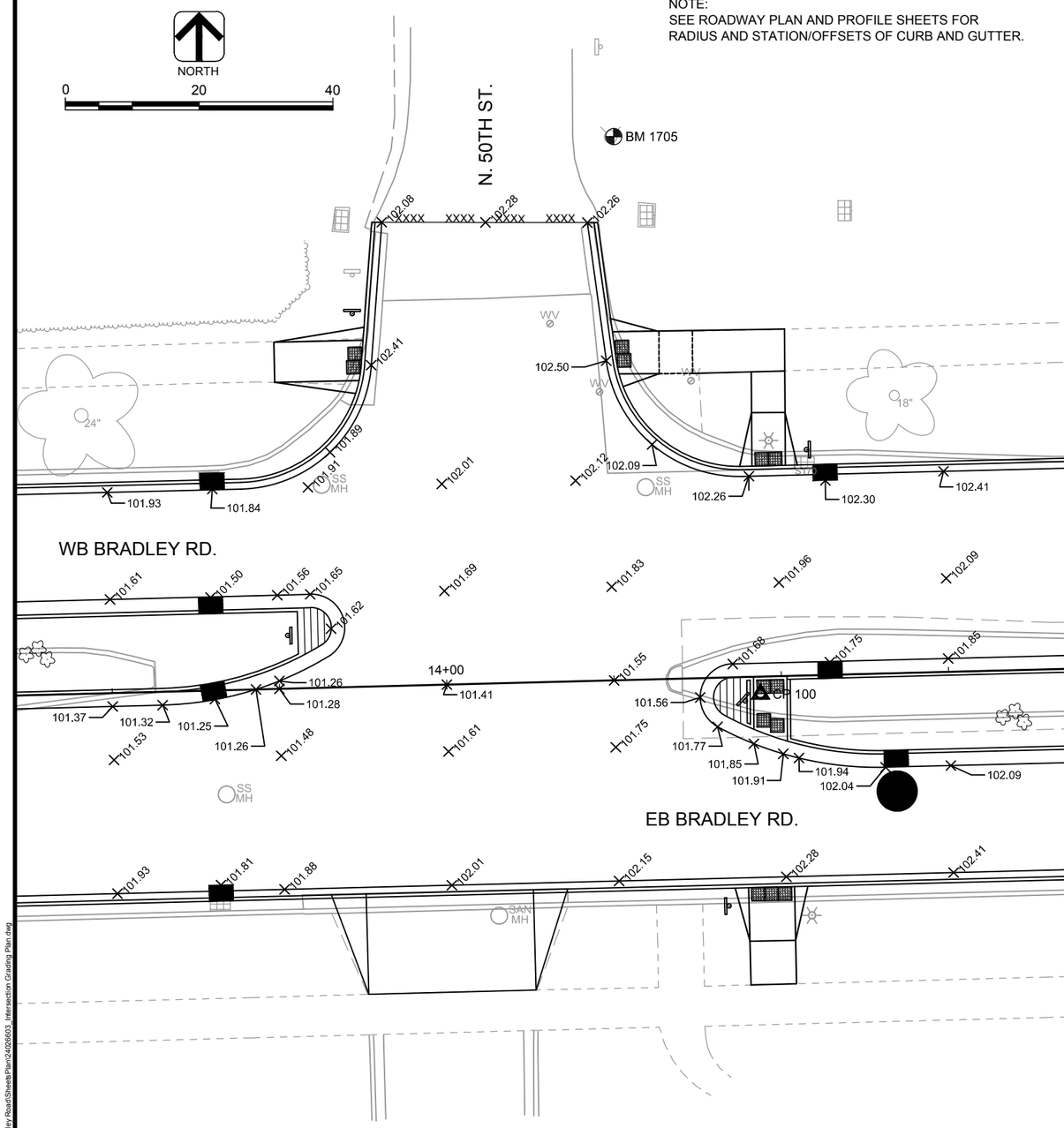
AYRES ASSOCIATES
WAUKESHA, WI

SHERMAN BLVD. SIGNAL PLAN

SHEET NO
SP002

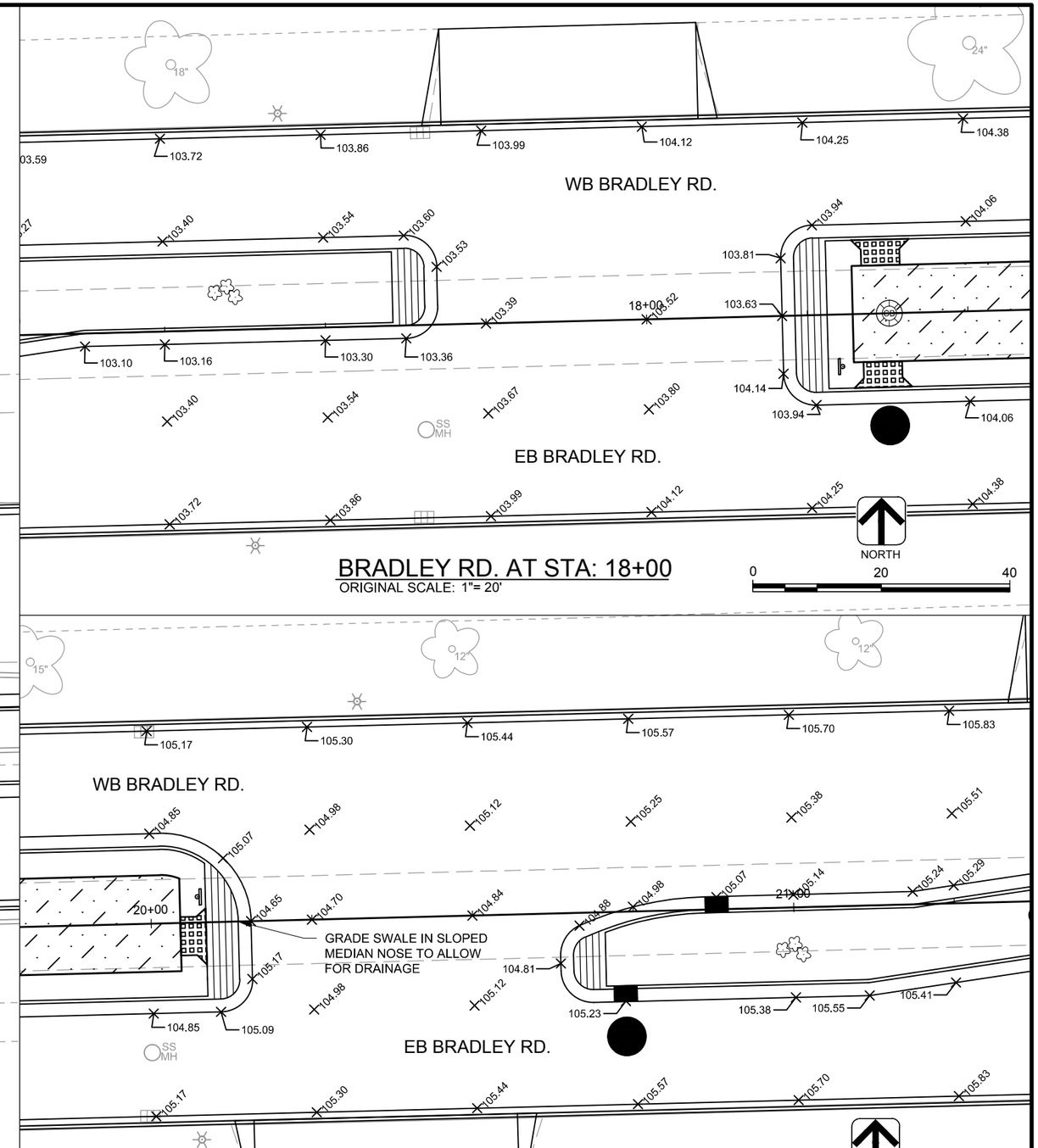
AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Signal Plan.dwg

NOTE:
SEE ROADWAY PLAN AND PROFILE SHEETS FOR
RADIUS AND STATION/OFFSETS OF CURB AND GUTTER.



BRADLEY RD. AT 50TH ST.

ORIGINAL SCALE: 1"= 20'



BRADLEY RD. AT STA: 18+00

ORIGINAL SCALE: 1"= 20'

BRADLEY RD. AT STA: 20+50

ORIGINAL SCALE: 1"= 20'

AA-Standard.stb
1/5/2015
Z:\DCN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Intersection Grading Plan.dwg

DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	####	
DR BY	AJS	PROJ NO	24-0266.03	####			####	
CHK BY	KKA	DATE	JANUARY 2015	####			####	
				NO	DATE	REVISION	NO	DATE

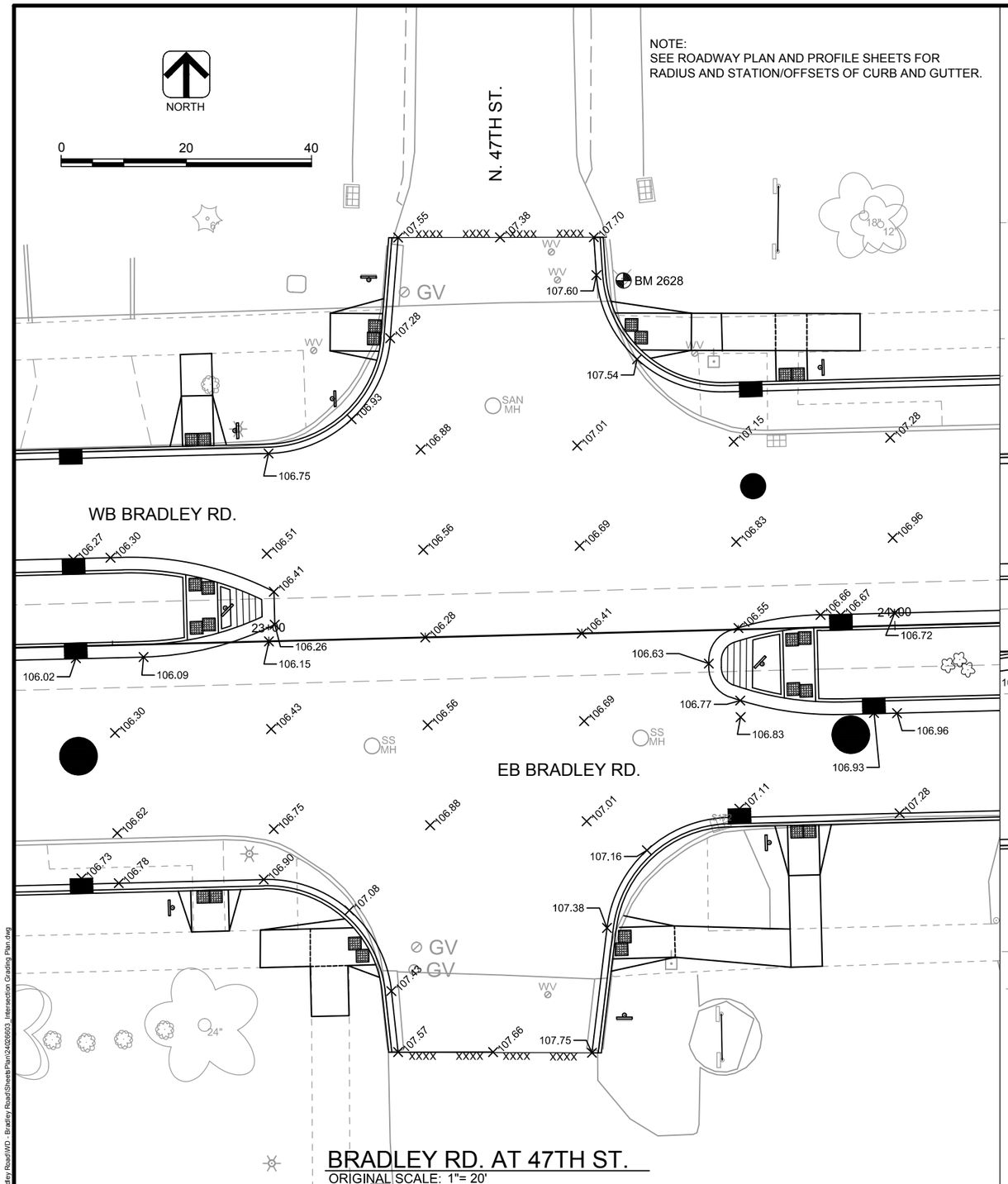
W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

INTERSECTION GRADING PLAN

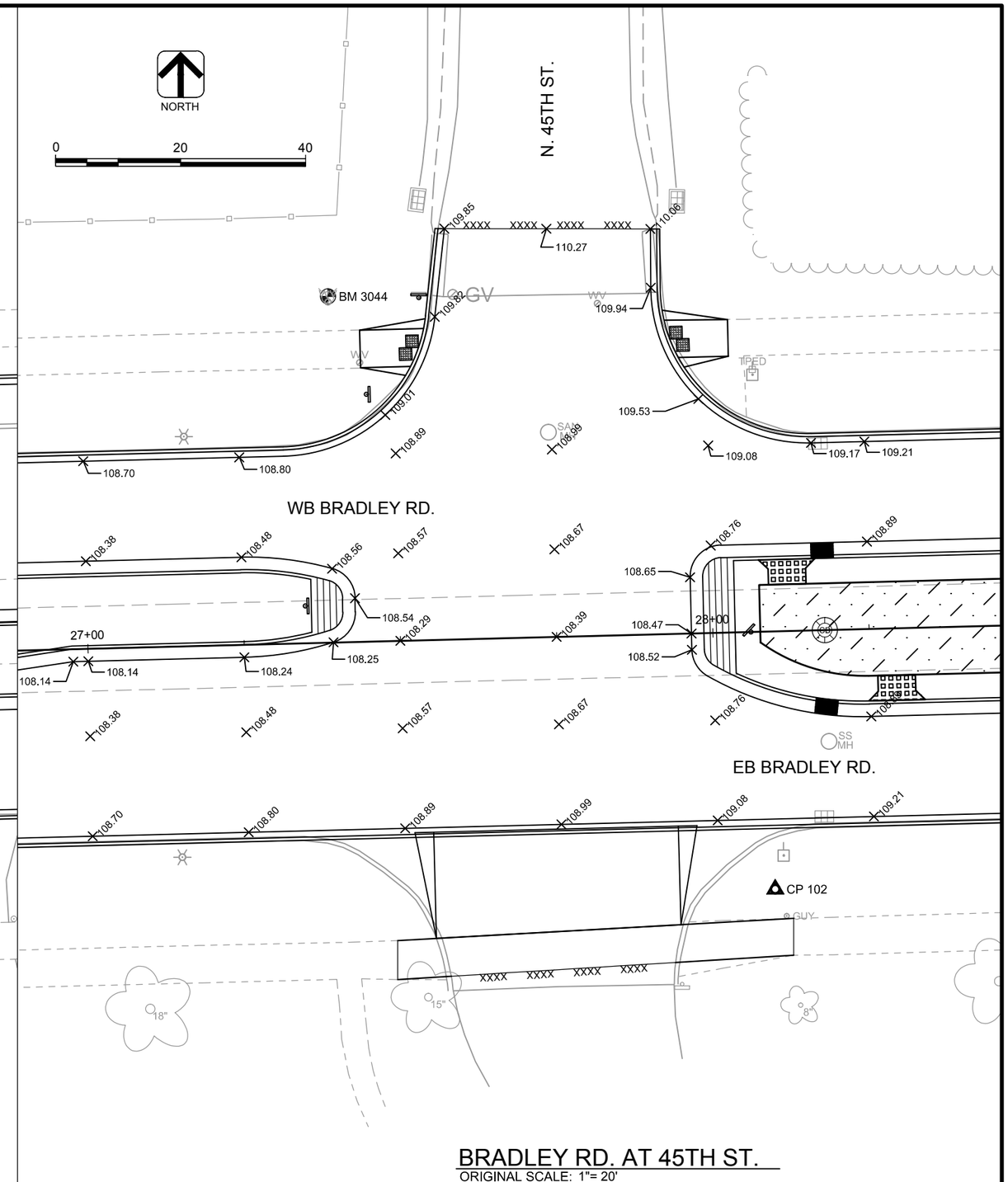
SHEET NO
PN001

NOTE:
SEE ROADWAY PLAN AND PROFILE SHEETS FOR
RADIUS AND STATION/OFFSETS OF CURB AND GUTTER.



BRADLEY RD. AT 47TH ST.

ORIGINAL SCALE: 1"= 20'



BRADLEY RD. AT 45TH ST.

ORIGINAL SCALE: 1"= 20'

DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####		
DR BY AJS	PROJ NO 24-0266.03	####			####		
CHK BY KKA	DATE JANUARY 2015	####			####		
		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

INTERSECTION GRADING PLAN

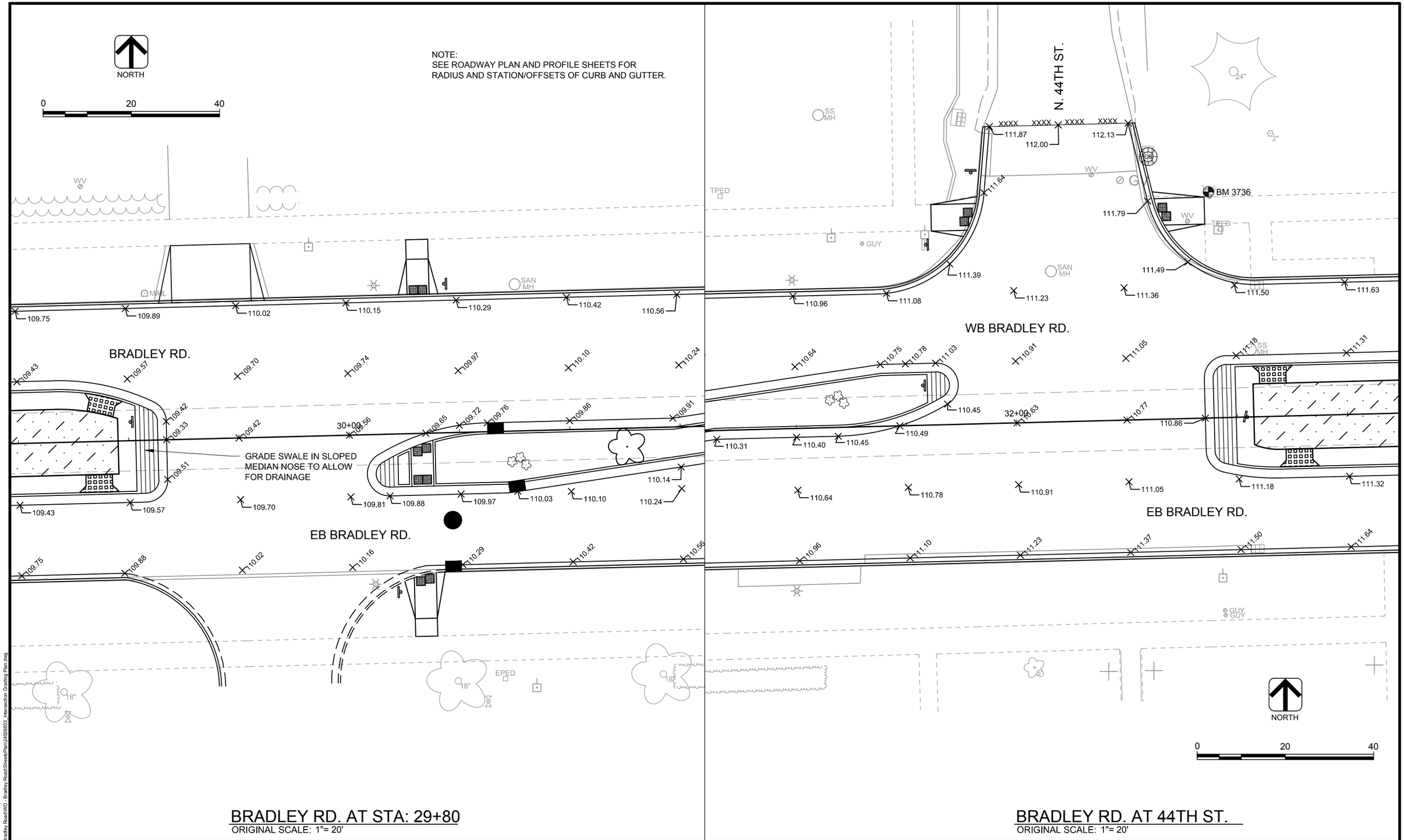
SHEET NO
PN002

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Intersection Grading Plan.dwg

NORTH

0 20 40

NOTE:
SEE ROADWAY PLAN AND PROFILE SHEETS FOR
RADIUS AND STATION/OFFSETS OF CURB AND GUTTER.



BRADLEY RD. AT STA: 29+80

ORIGINAL SCALE: 1"= 20'

BRADLEY RD. AT 44TH ST.

ORIGINAL SCALE: 1"= 20'

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Intersection Grading Plan.dwg

DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	####	
DR BY	AJS	PROJ NO	24-0266.03	####			####	
CHK BY	KKA	DATE	JANUARY 2015	####			####	
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

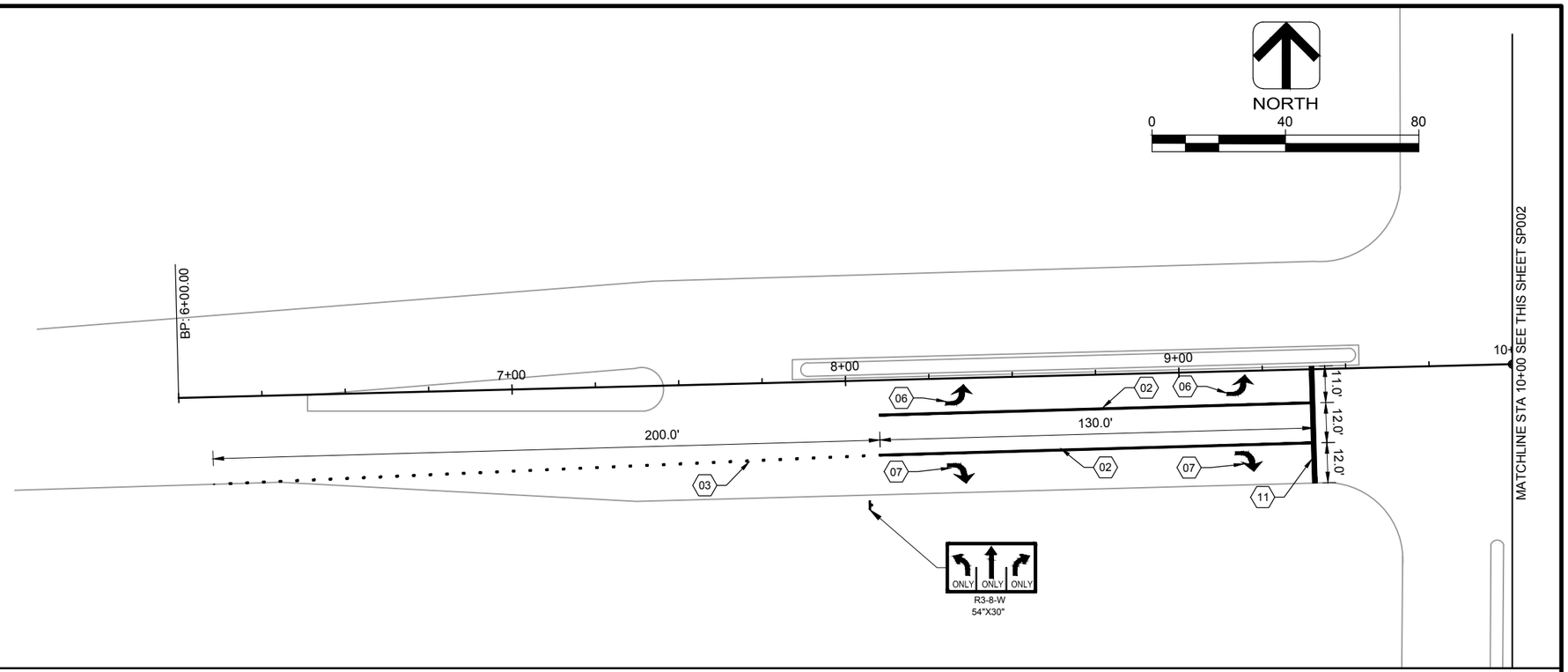
AYRES ASSOCIATES
WAUKESHA, WI

INTERSECTION GRADING PLAN

SHEET NO
PN003

STRIPING NOTES:

- 01 BIKE LANE STRIPE (4" WHITE)
- 02 TURN LANE STRIPE (8" WHITE)
- 03 DASHED TAPER STRIPE (8" WHITE) (3' STRIPE, 9' GAP)
- 04 CONTENENTAL CROSS WALK (WHITE)
- 05 STOP BAR STRIPE (12" WHITE)
- 06 LEFT TURN ARROW (WHITE)
- 07 RIGHT TURN ARROW (WHITE)
- 08 BIKE LANE SYMBOL (WHITE)
- 09 BIKE LANE ARROW SYMBOL (WHITE)
- 10 BIKE LANE SHARED SYMBOL (WHITE)
- 11 STOP BAR STRIPE (18" WHITE)
- 12 CROSS WALK STRIPE (6" WHITE)



DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			
CHK BY KKA	DATE JANUARY 2015	####			####			
		NO	DATE	REVISION	NO	DATE	REVISION	

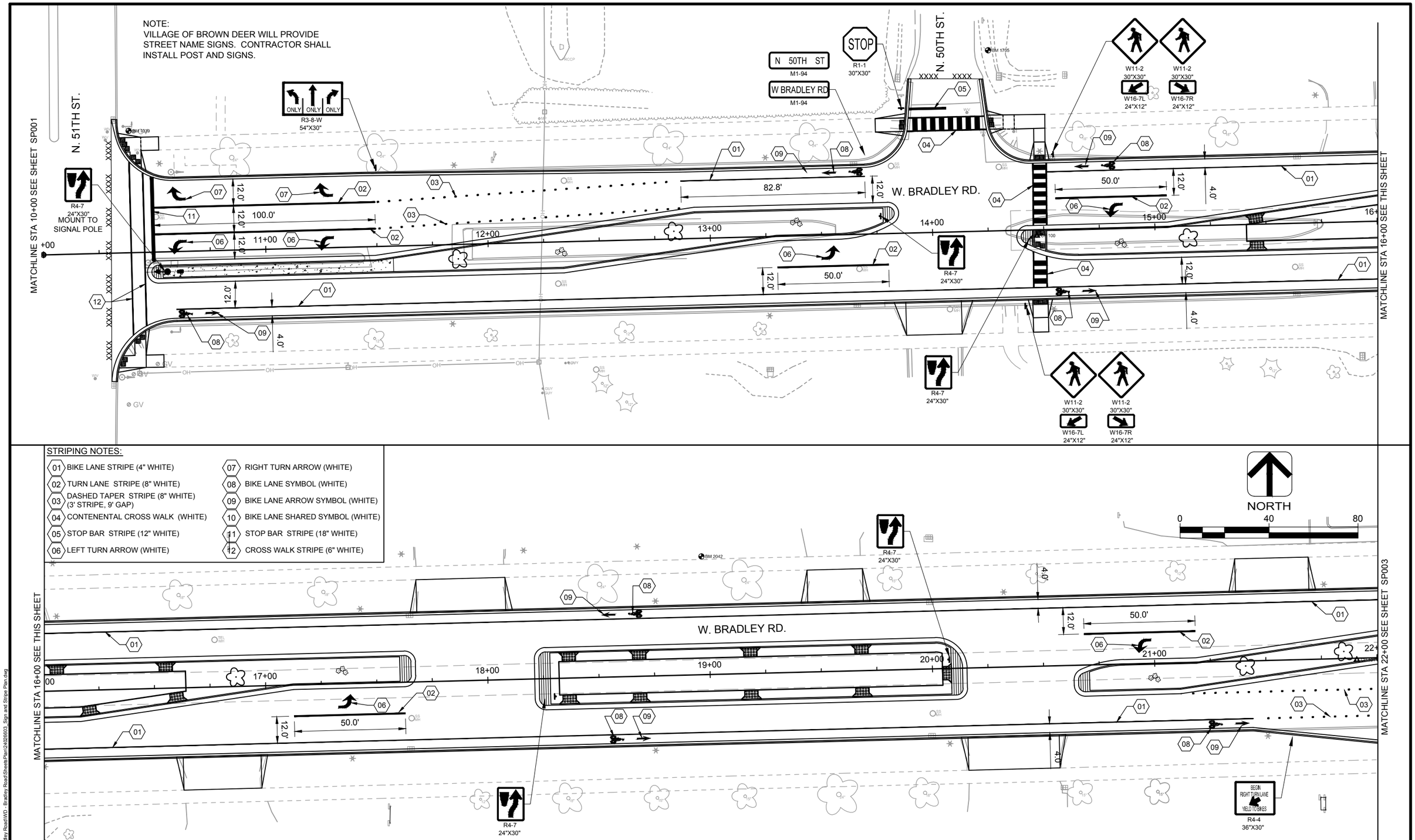
AYRES ASSOCIATES
WAUKESHA, WI

SIGNING AND STRIPING PLAN STA 6+00 - STA 10+00

SHEET NO
SP001

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Sign and Stripe Plan.dwg

NOTE:
VILLAGE OF BROWN DEER WILL PROVIDE STREET NAME SIGNS. CONTRACTOR SHALL INSTALL POST AND SIGNS.



STRIPING NOTES:

01	BIKE LANE STRIPE (4" WHITE)	07	RIGHT TURN ARROW (WHITE)
02	TURN LANE STRIPE (8" WHITE)	08	BIKE LANE SYMBOL (WHITE)
03	DASHED TAPER STRIPE (8" WHITE) (3' STRIPE, 9' GAP)	09	BIKE LANE ARROW SYMBOL (WHITE)
04	CONTENENTAL CROSS WALK (WHITE)	10	BIKE LANE SHARED SYMBOL (WHITE)
05	STOP BAR STRIPE (12" WHITE)	11	STOP BAR STRIPE (18" WHITE)
06	LEFT TURN ARROW (WHITE)	12	CROSS WALK STRIPE (6" WHITE)

DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	
DR BY	AJS	PROJ NO	24-0266.03	####			
CHK BY	KKA	DATE	JANUARY 2015	####			
				NO	DATE	REVISION	

####			
####			
####			
NO	DATE	REVISION	

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

SIGNING AND STRIPING PLAN STA 10+00 - STA 22+00

SHEET NO
SP002

AA-Standard.stb
1/5/2015
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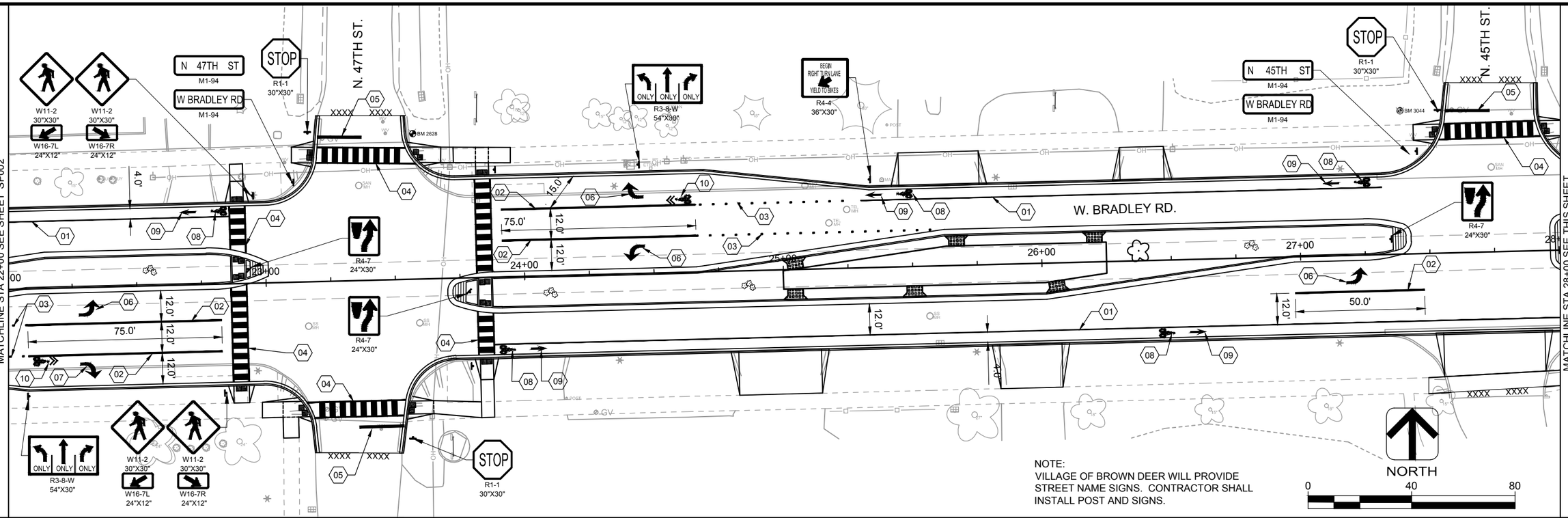
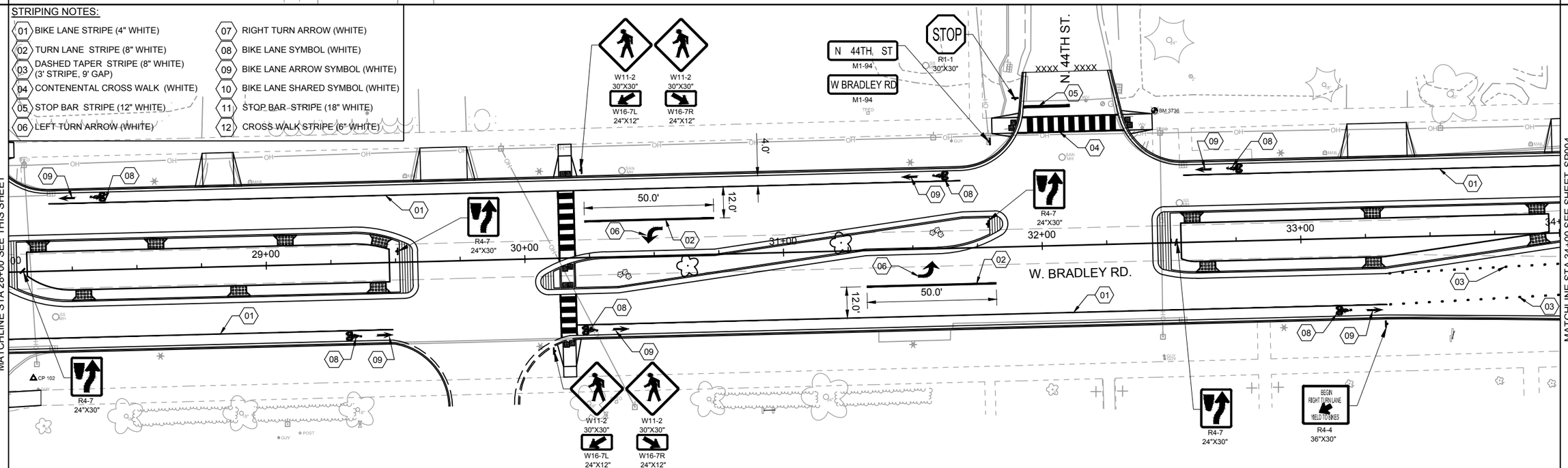


STRIPING NOTES:

- 01 BIKE LANE STRIPE (4" WHITE)
- 02 TURN LANE STRIPE (8" WHITE)
- 03 DASHED TAPER STRIPE (8" WHITE) (3' STRIPE, 9' GAP)
- 04 CONTENENTAL CROSS WALK (WHITE)
- 05 STOP BAR STRIPE (12" WHITE)
- 06 LEFT TURN ARROW (WHITE)
- 07 RIGHT TURN ARROW (WHITE)
- 08 BIKE LANE SYMBOL (WHITE)
- 09 BIKE LANE ARROW SYMBOL (WHITE)
- 10 BIKE LANE SHARED SYMBOL (WHITE)
- 11 STOP BAR STRIPE (18" WHITE)
- 12 CROSS WALK STRIPE (6" WHITE)



DES BY	AJS	BOOK NO	----
DR BY	AJS	PROJ NO	24-0266.03
CHK BY	KKA	DATE	JANUARY 2015

NO	DATE	REVISION	NO	DATE	REVISION
1	1/05/15	BID DOCUMENTS	####		
####			####		
####			####		

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

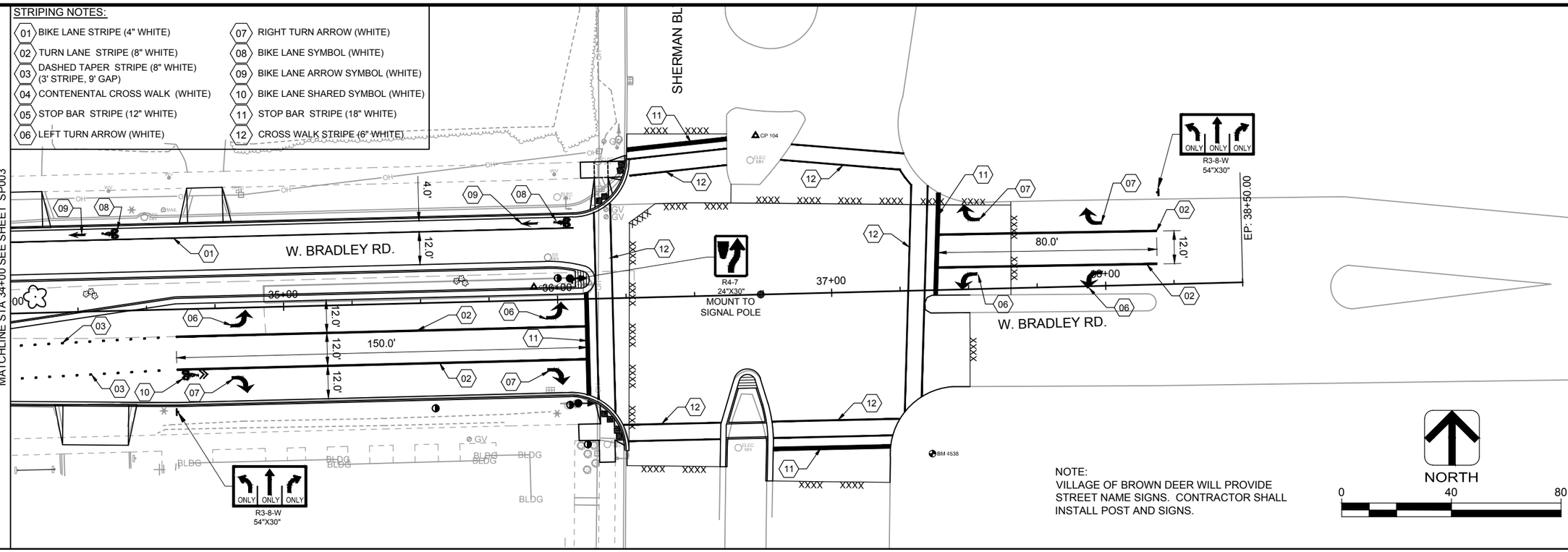
SIGNING AND STRIPING PLAN STA 22+00 - STA 34+00

SHEET NO
SP003

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Sign and Stripe Plan.dwg

STRIPING NOTES:

- 01 BIKE LANE STRIPE (4" WHITE)
- 02 TURN LANE STRIPE (8" WHITE)
- 03 DASHED TAPER STRIPE (8" WHITE) (3' STRIPE, 9' GAP)
- 04 CONTENENTAL CROSS WALK (WHITE)
- 05 STOP BAR STRIPE (12" WHITE)
- 06 LEFT TURN ARROW (WHITE)
- 07 RIGHT TURN ARROW (WHITE)
- 08 BIKE LANE SYMBOL (WHITE)
- 09 BIKE LANE ARROW SYMBOL (WHITE)
- 10 BIKE LANE SHARED SYMBOL (WHITE)
- 11 STOP BAR STRIPE (18" WHITE)
- 12 CROSS WALK STRIPE (6" WHITE)



NOTE:
VILLAGE OF BROWN DEER WILL PROVIDE STREET NAME SIGNS. CONTRACTOR SHALL INSTALL POST AND SIGNS.

DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			
CHK BY KKA	DATE JANUARY 2015	####			####			
		NO	DATE	REVISION	NO	DATE	REVISION	

AYRES ASSOCIATES
WAUKESHA, WI

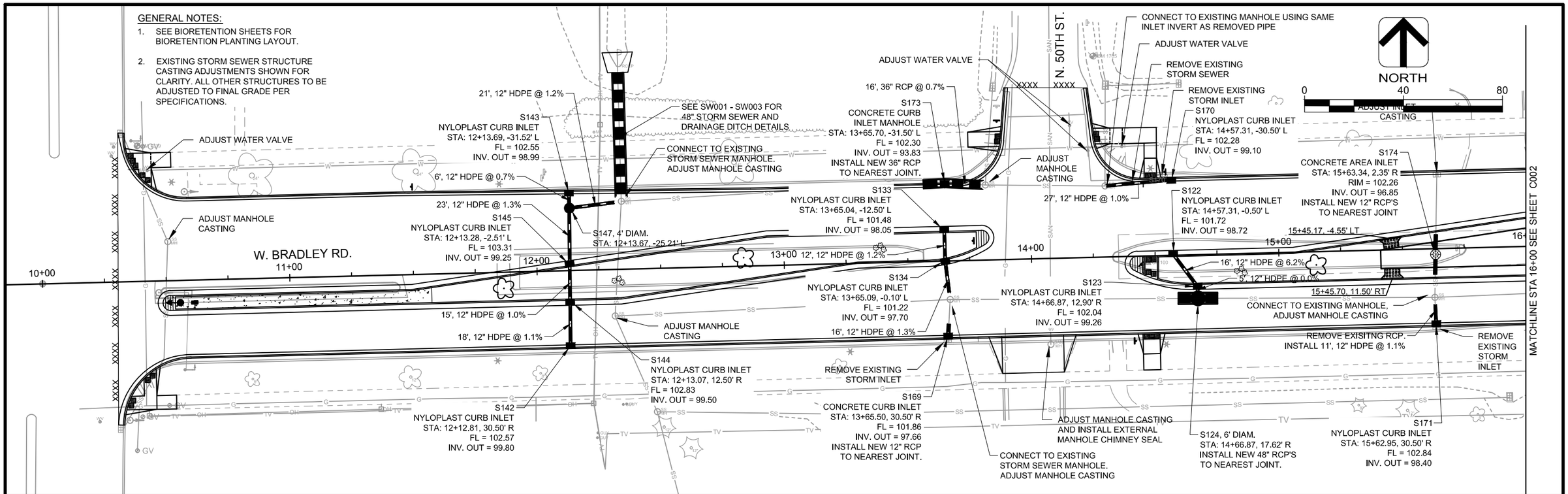
SIGNING AND STRIPING PLAN STA 34+00 - STA 36+75

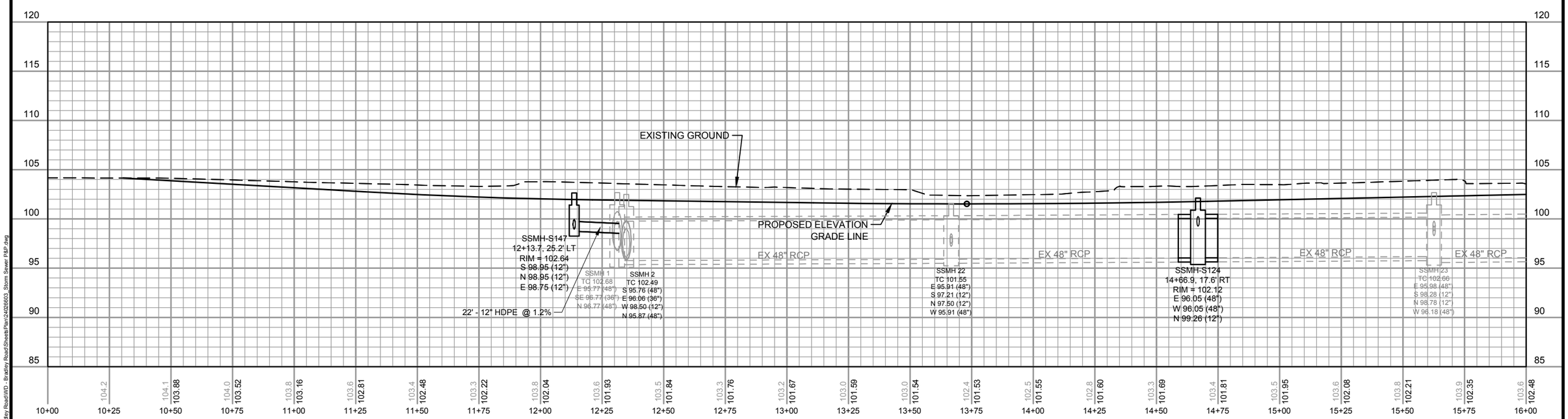
SHEET NO
SP004

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Sign and Stripe Plan.dwg

GENERAL NOTES:

1. SEE BIORETENTION SHEETS FOR BIORETENTION PLANTING LAYOUT.
2. EXISTING STORM SEWER STRUCTURE CASTING ADJUSTMENTS SHOWN FOR CLARITY. ALL OTHER STRUCTURES TO BE ADJUSTED TO FINAL GRADE PER SPECIFICATIONS.





DES BY	AJS	BOOK NO	----
DR BY	AJS	PROJ NO	24-0266.03
CHK BY	KKA	DATE	JANUARY 2015

NO	DATE	REVISION	NO	DATE	REVISION
1	1/05/15	BID DOCUMENTS	####		
####			####		
####			####		

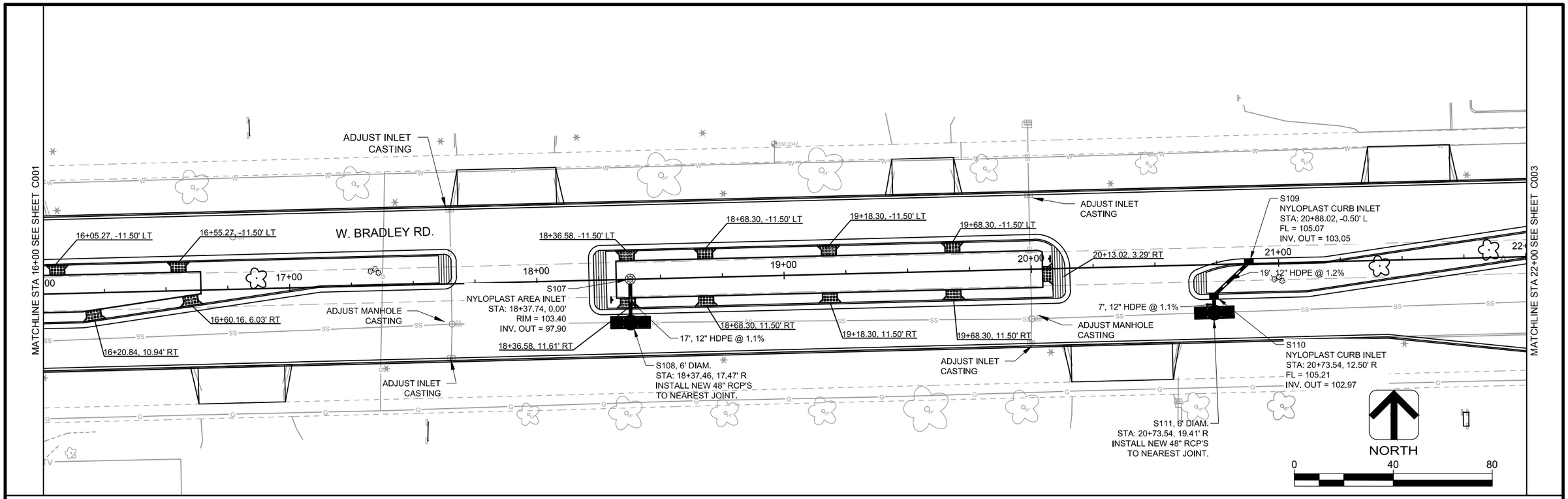
W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

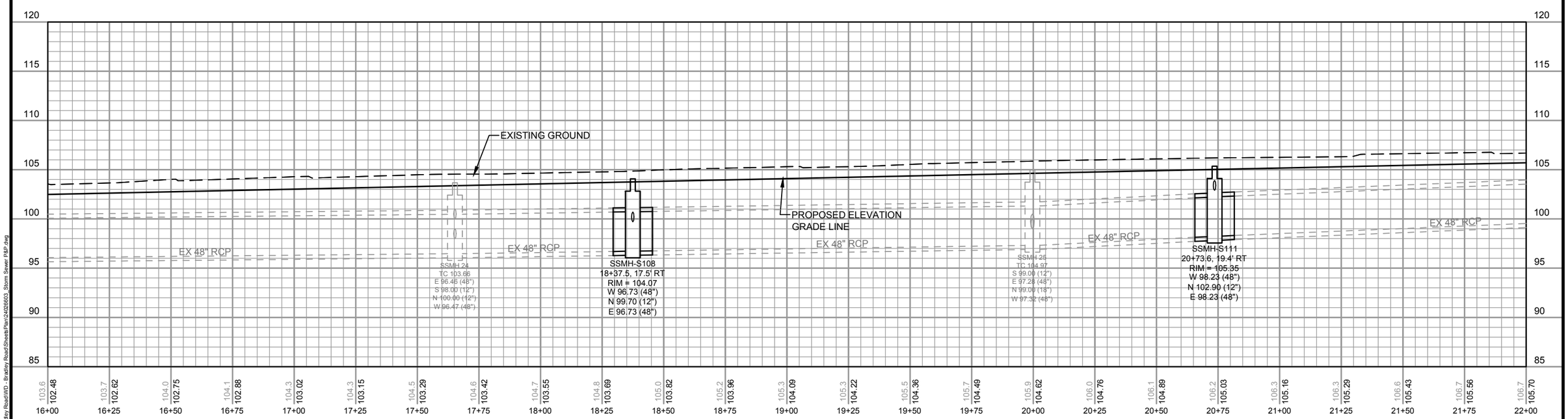
AYRES ASSOCIATES
WAUKESHA, WI

STORM SEWER PLAN AND PROFILE STA 10+00 - STA 16+00

SHEET NO
SS001

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Storm Sewer P&P.dwg





DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			AYRES ASSOCIATES WAUKESHA, WI
CHK BY KKA	DATE JANUARY 2015	####			####			STORM SEWER PLAN AND PROFILE STA 16+00 - STA 22+00
		NO	DATE	REVISION	NO	DATE	REVISION	SHEET NO SS002

AA-Standard.stb
1/5/2015
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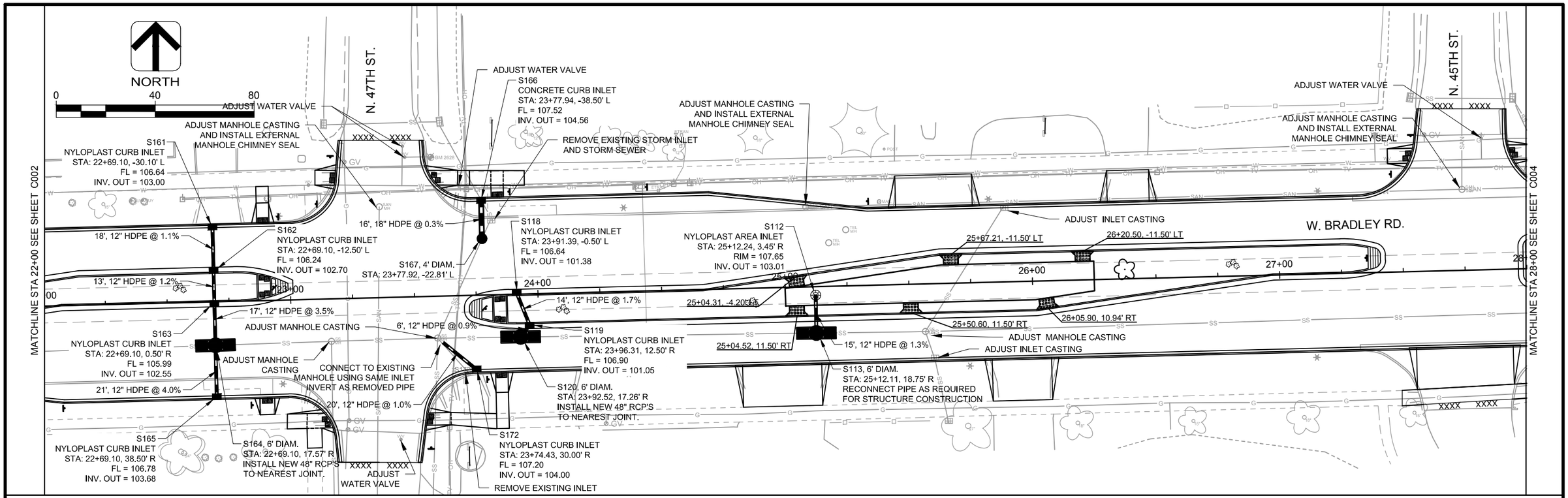

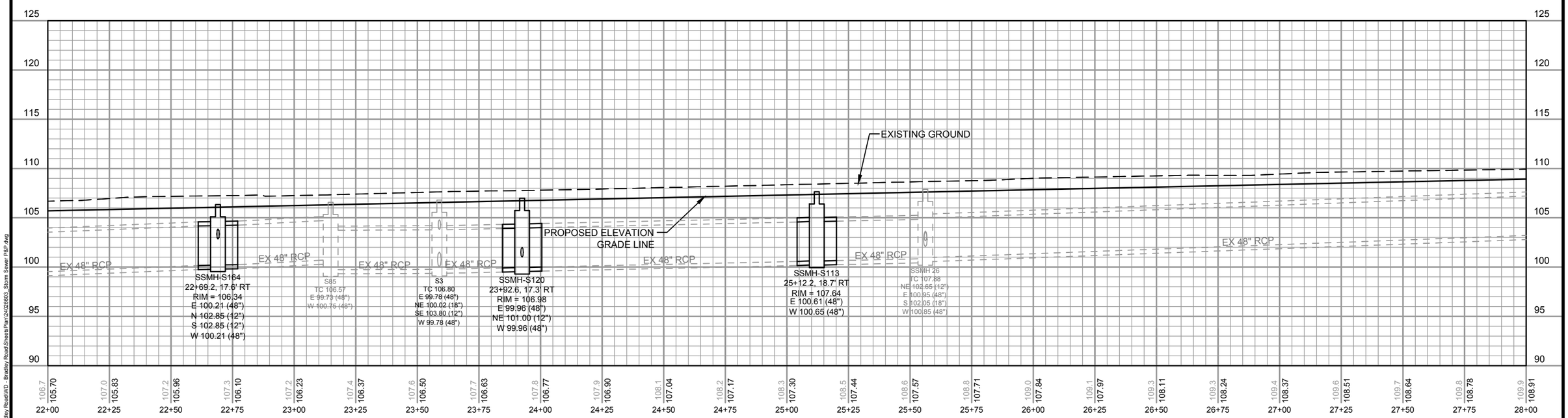

DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####		
DR BY AJS	PROJ NO 24-0266.03	####			####		
CHK BY KKA	DATE JANUARY 2015	####			####		
		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

STORM SEWER PLAN AND PROFILE STA 22+00 - STA 28+00

SHEET NO
SS003

AA-Standard.stb
1/5/2015
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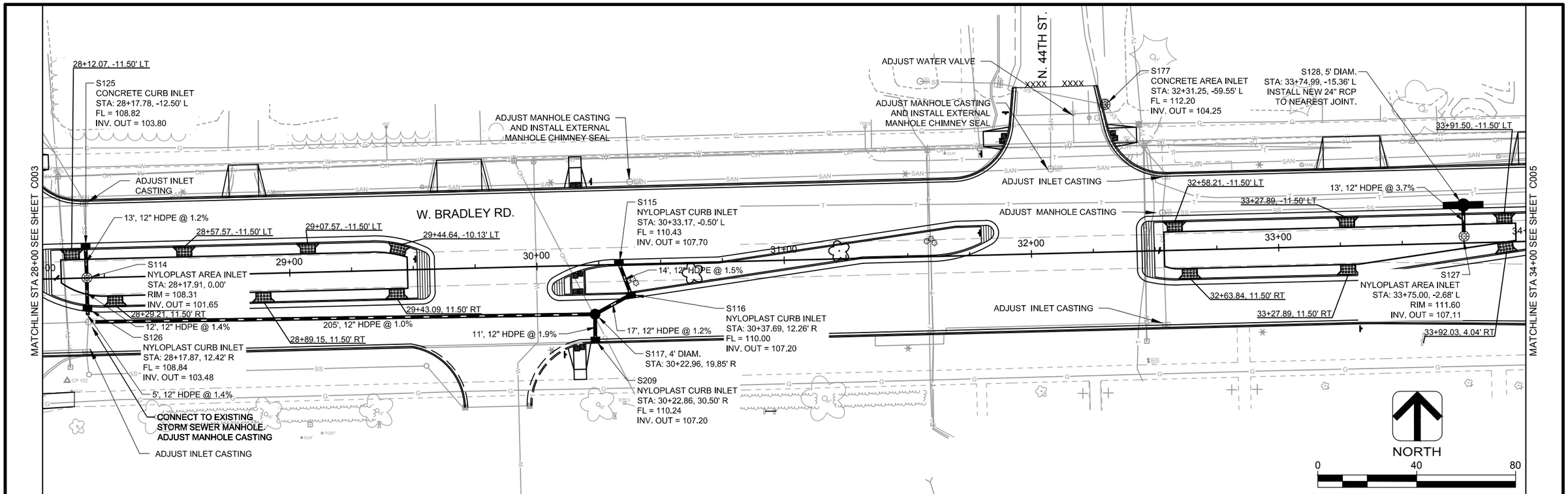
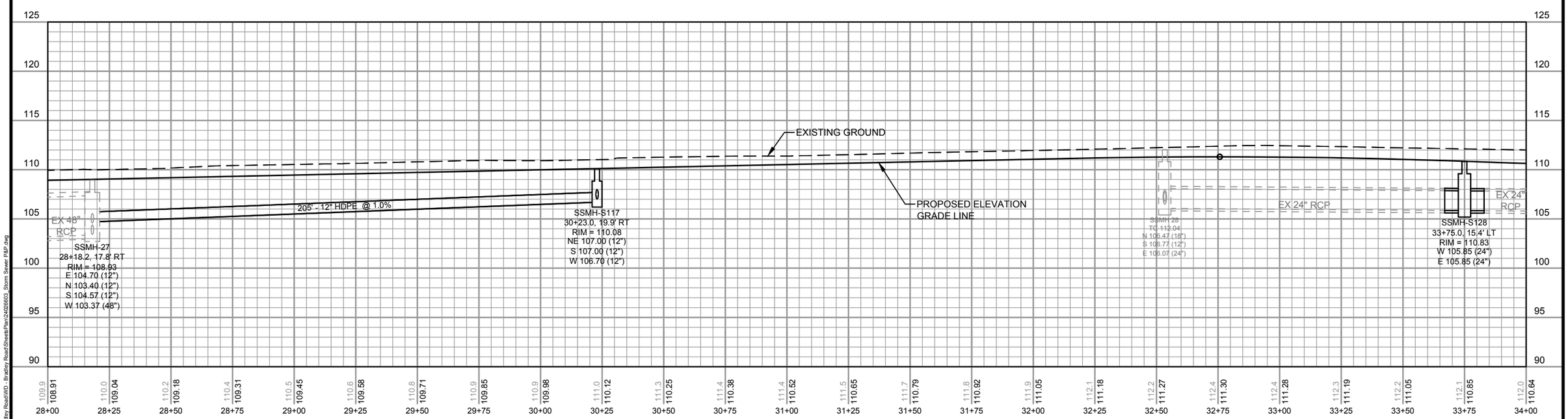




DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	####	
DR BY	AJS	PROJ NO	24-0266.03	####			####	
CHK BY	KKA	DATE	JANUARY 2015	####			####	
				NO	DATE	REVISION	NO	DATE	REVISION

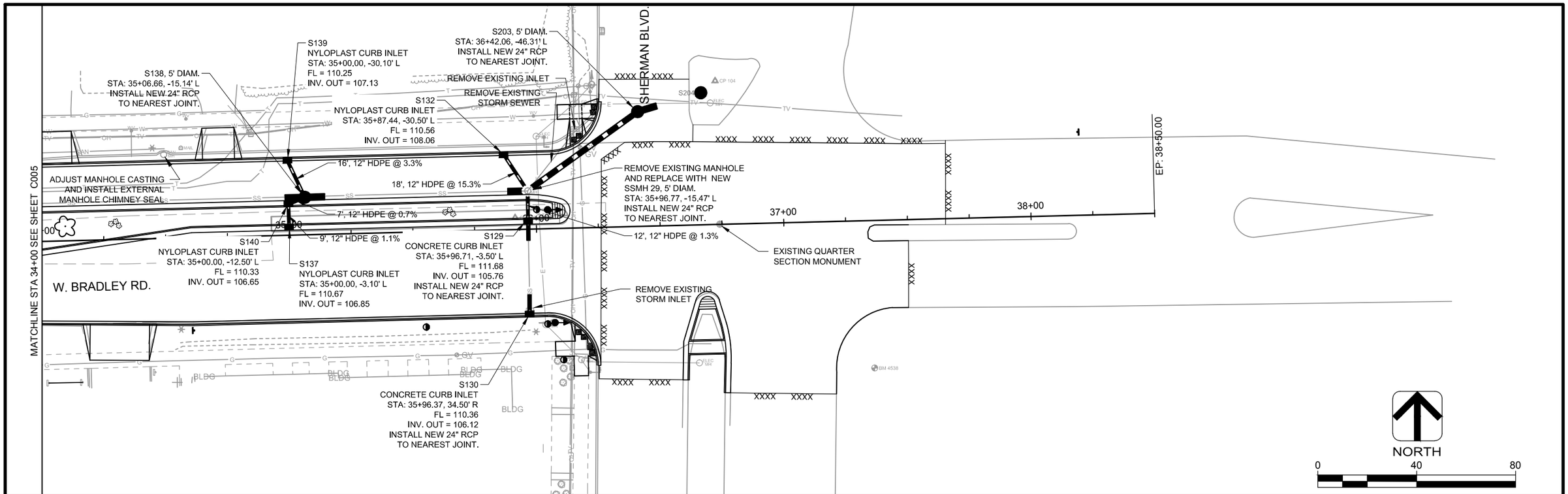
W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

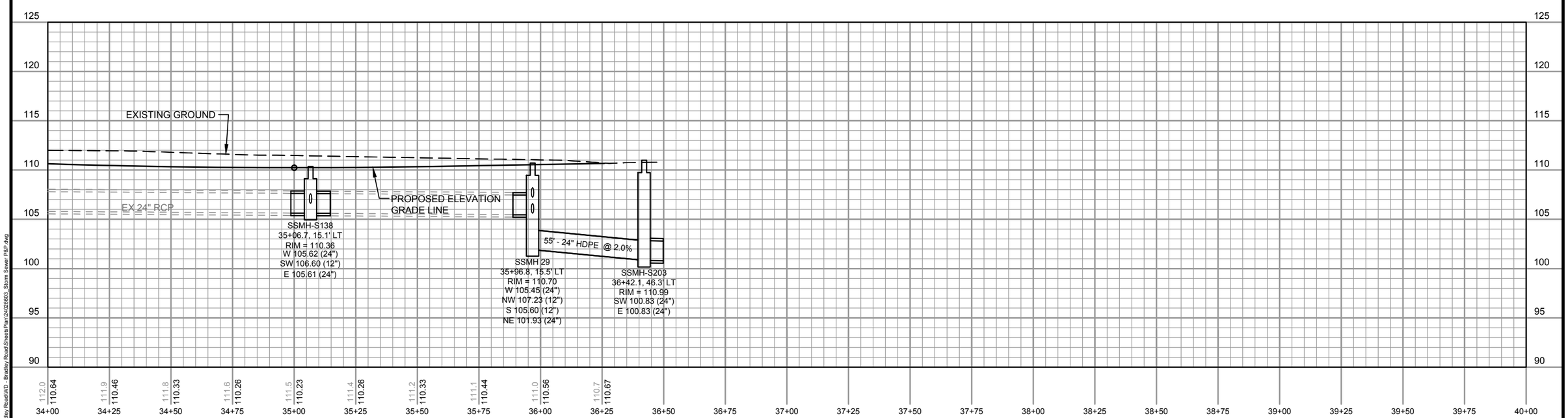
AYRES ASSOCIATES
WAUKESHA, WI

STORM SEWER PLAN AND PROFILE STA 28+00 - STA 34+00

SHEET NO
SS004

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Storm Sewer P&P.dwg





DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	####	
DR BY	AJS	PROJ NO	24-0266.03	####			####	
CHK BY	KKA	DATE	JANUARY 2015	####			####	
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

STORM SEWER PLAN AND PROFILE STA 34+00 - STA 36+75

SHEET NO
SS005

AA-Standard.stb
1/5/2015
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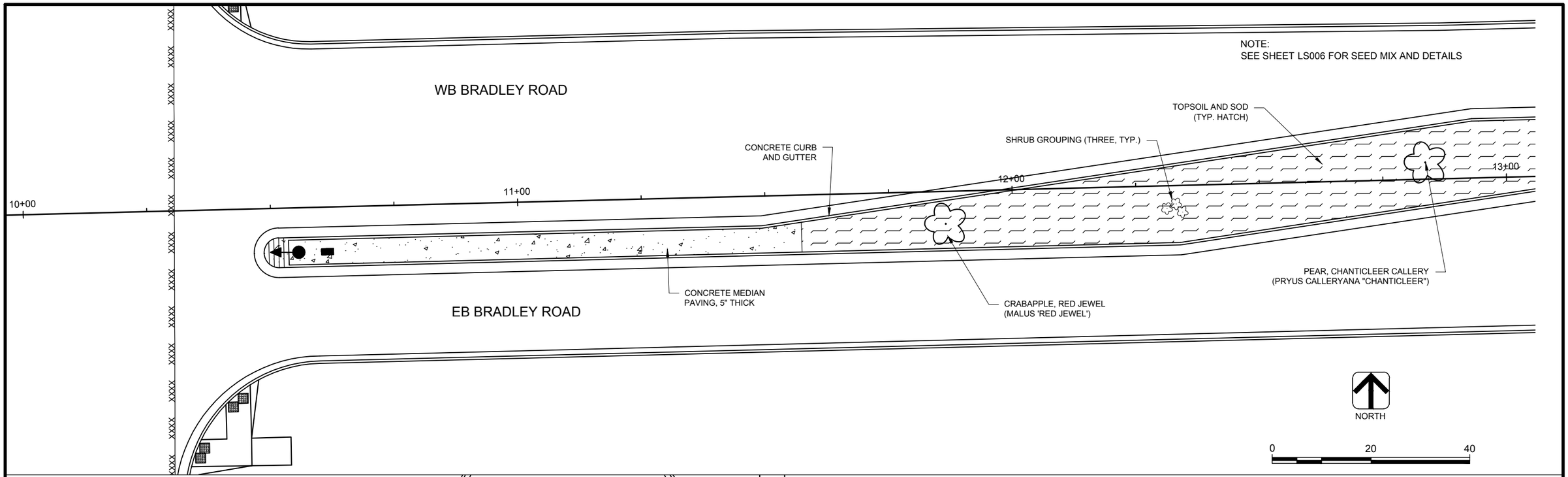
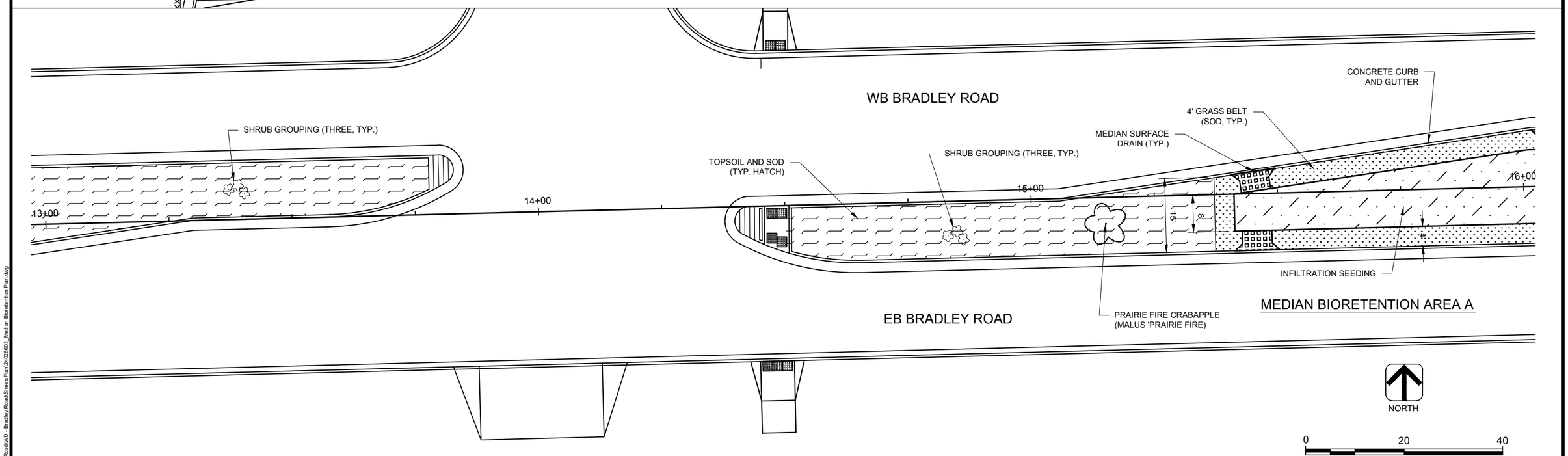
NOTE:
SEE SHEET LS006 FOR SEED MIX AND DETAILS





MEDIAN BIORETENTION AREA A

DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	####		
DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

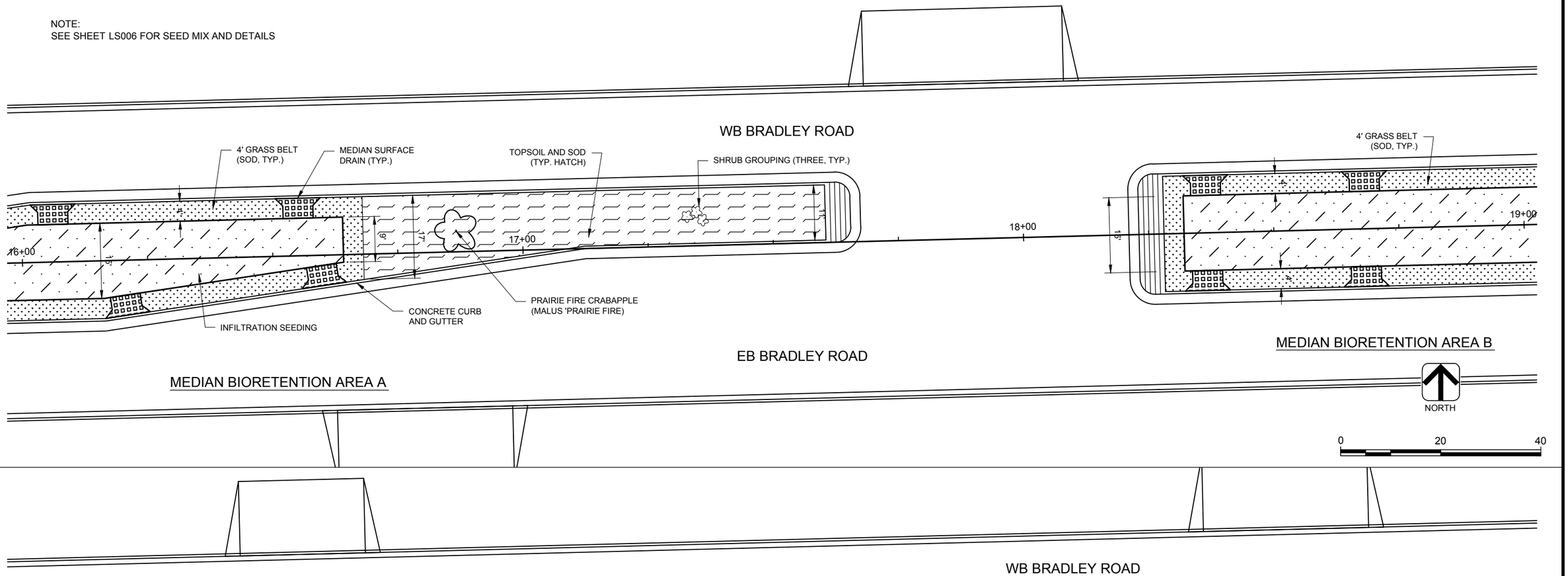
AYRES ASSOCIATES
WAUKESHA, WI

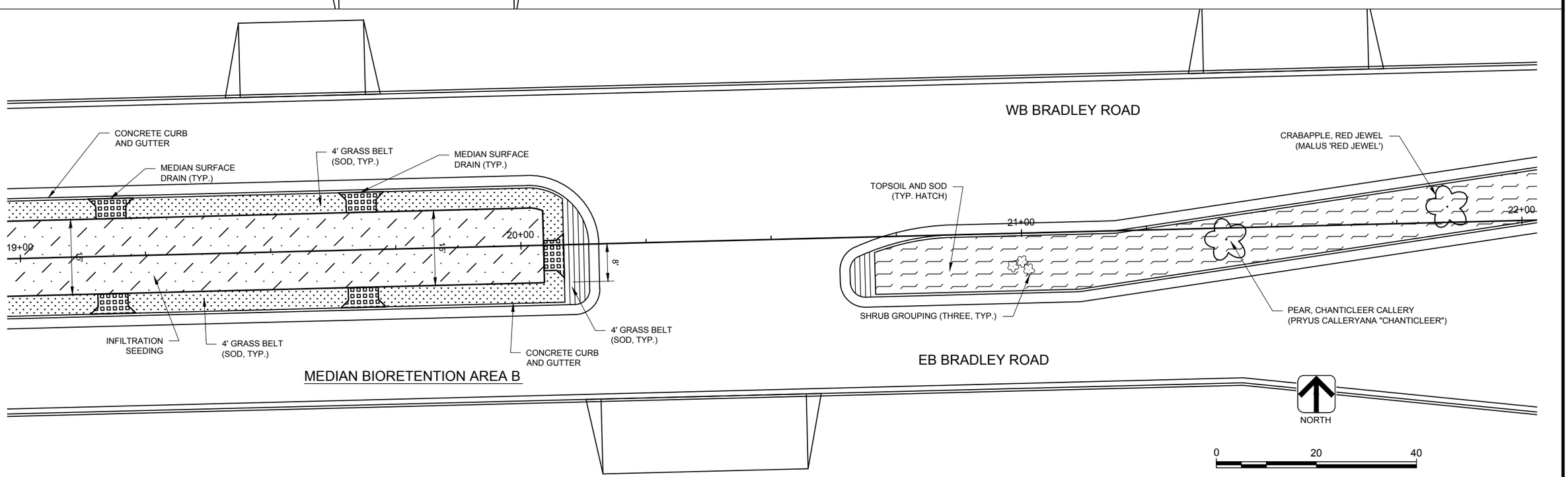
MEDIAN LANDSCAPE PLAN STA 10+00 - 16+00

SHEET NO
LS001

AA-Standard.stb
1/5/2015
Z:\DGN\24026603 - Bradley Road\WD - Bradley Road\Sheets\Plan\24026603_Median Bioretention Plan.dwg

NOTE:
SEE SHEET LS006 FOR SEED MIX AND DETAILS





AA-Standard.stb
1/5/2015
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DES BY	AJS	BOOK NO	---	1	1/05/15	BID DOCUMENTS	####	
DR BY	AJS	PROJ NO	24-0266.03	####			####	
CHK BY	KKA	DATE	JANUARY 2015	####			####	
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

MEDIAN LANDSCAPE PLAN STA 16+00 - 22+00

SHEET NO
LS002

NORTH

0 20 40

NOTE:
SEE SHEET LS006 FOR SEED MIX AND DETAILS

WB BRADLEY ROAD

TOPSOIL AND SOD
(TYP. HATCH)

22+00

23+00

SHRUB GROUPING (THREE, TYP.)

24+00

SHRUB GROUPING (THREE, TYP.)

25+00

7'

SHRUB GROUPING (THREE, TYP.)

4' GRASS BELT
(SOD, TYP.)

EB BRADLEY ROAD

CONCRETE CURB
AND GUTTER

4' GRASS BELT (SOD, TYP.)

WB BRADLEY ROAD

TOPSOIL AND SOD
(TYP. HATCH)

25+00

26+00

16'

12'

20'

27+00

28+00

CONCRETE CURB
AND GUTTER

SHRUB GROUPING (THREE, TYP.)

CRABAPPLE, RED JEWEL
(MALUS 'RED JEWEL')

MEDIAN SURFACE
DRAIN (TYP.)

INFILTRATION SEEDING

4' GRASS BELT
(SOD, TYP.)

EB BRADLEY ROAD

MEDIAN BIORETENTION AREA C

NORTH

0 20 40

DES BY AJS	BOOK NO ---	1	1/05/15	BID DOCUMENTS	####		
DR BY AJS	PROJ NO 24-0266.03	####			####		
CHK BY KKA	DATE JANUARY 2015	####			####		
		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

MEDIAN LANDSCAPE PLAN STA 22+00 - 28+00

SHEET NO
LS003

AA-Standard.stb
1/5/2015
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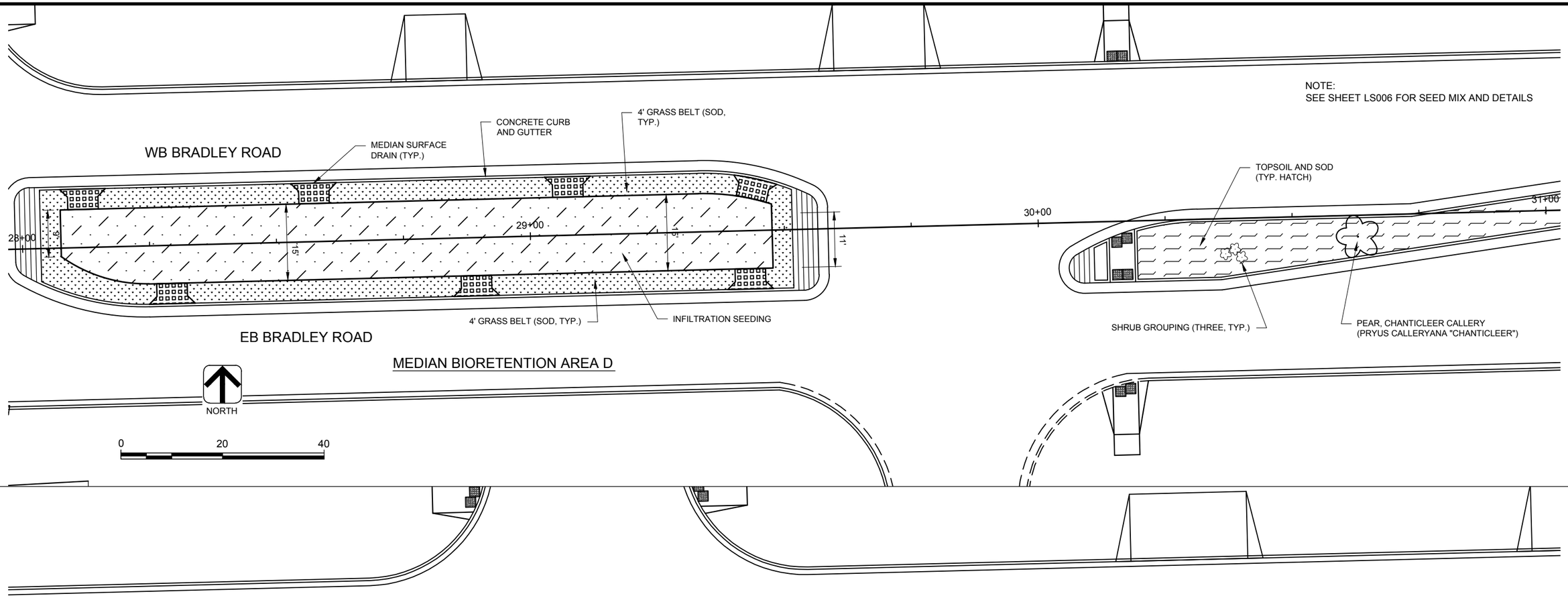
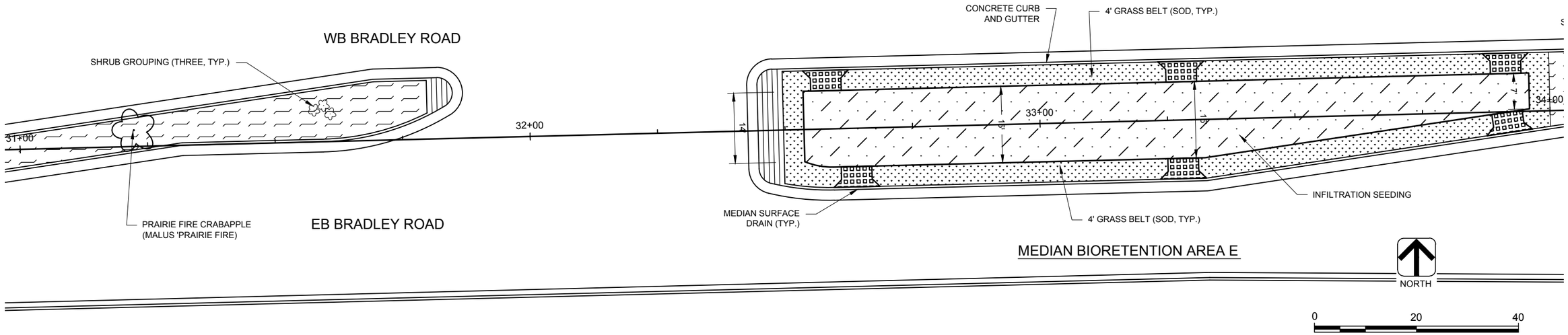
NOTE:
SEE SHEET LS006 FOR SEED MIX AND DETAILS



MEDIAN BIORETENTION AREA D



MEDIAN BIORETENTION AREA E

DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	####		
DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

MEDIAN LANDSCAPE PLAN STA 28+00 - 34+00

SHEET NO
LS004

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1/5/2015
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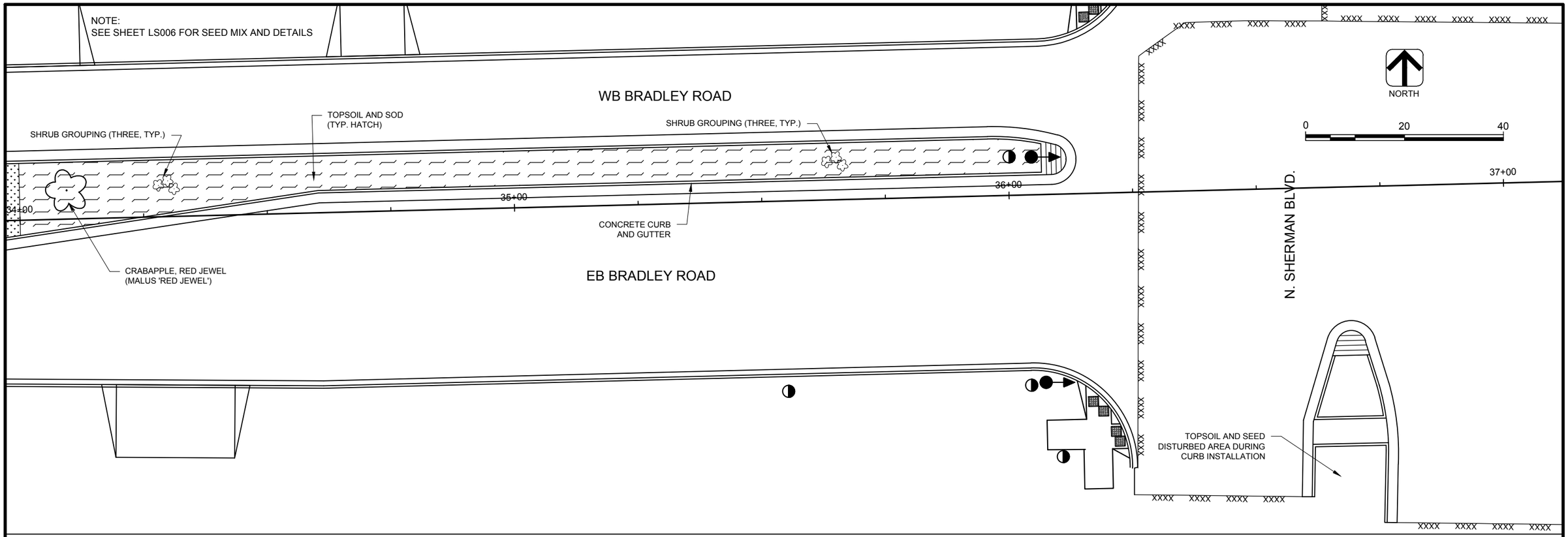

DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			
CHK BY KKA	DATE JANUARY 2015	####			####			
		NO	DATE	REVISION	NO	DATE	REVISION	

AYRES ASSOCIATES
WAUKESHA, WI

MEDIAN LANDSCAPE PLAN STA 34+00 - 37+00

SHEET NO
LS005

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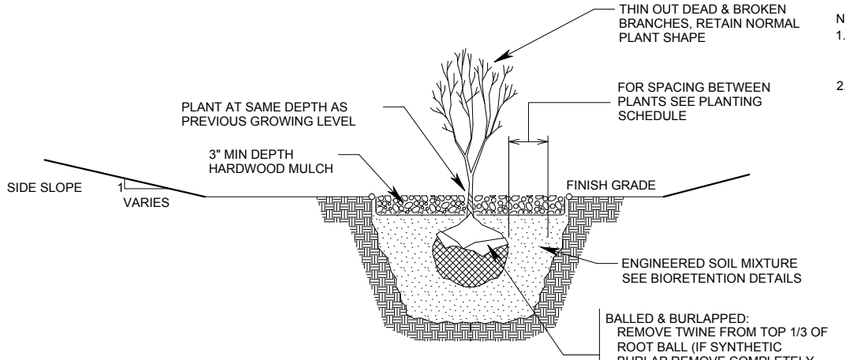


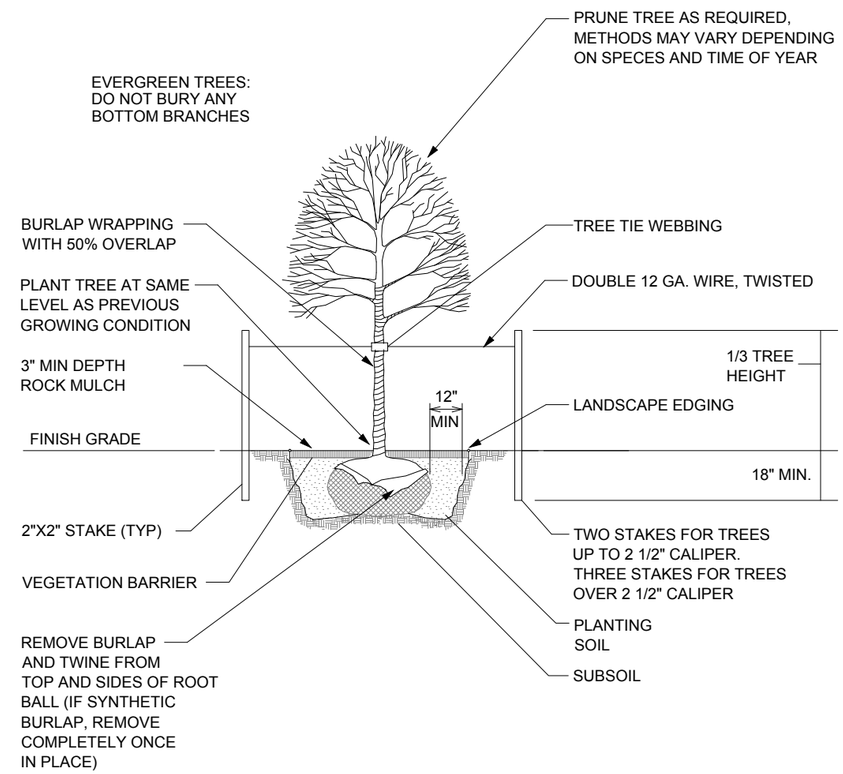
NOTES:
1. ONE (1) OF EACH SHRUB LISTED SHALL BE USED IN EACH SHRUBBERY GROUPING TOTAL SHRUBS IN EACH GROUPING IS THREE (3)
2. EACH SHRUB GROUPING IS SPACED 50-FT APART ENTIRELY AROUND EACH BIORETENTION AREA

SHRUBS FOR SHRUBBERY GROUPINGS

PLANTING	HEIGHT	SPACE	BLOOMS
RED BARBERRY (BERBERIS THUNBERGII)	4-5-FT	2-4-FT	APRIL - MAY
BURNING BUSH (EUONYMUS ALATUS 'COMPACTUS')	6-10-FT	2-4-FT	FALL
HIGHBUSH CRANBERRY (VIBURNUM OPULUS VAR.)	10-15-FT	2-4-FT	FALL

MEDIAN SHRUB GROUPING PLANTING DETAIL

INFILTRATION SEED MIX			
SPECIES	SPECIES BOTANICAL NAME	PURITY AND GERMINATION	MIXTURE PROPORTIONS IN PERCENT
FORBS (22.75%)			
NEW ENGLAND ASTER	ASTER NOVAE-ANGLIAE	PLS	1.31
WILD SENNA	CASSIA HEBECARPA	PLS	3.27
JE PYE WEED	EUPATORIUM MACULATUM	PLS	1.31
SNEEZEWEED	HELENIUM AUTUMNALE	PLS	1.31
PRAIRIE BLAZING STAR	LIATRIA PYCONOSTACHYA	PLS	2.62
GREAT BLUE LOBELIA	LOBELIA SIPHILITICA	PLS	0.82
MARSH BETONY	PEDICULARIS LANCEOLATA	PLS	1.31
BLACK-EYED SUSAN	RUDBECKIA HIRTA	PLS	1.31
BROWN-EYED SUSAN	RUDBECKIA TRILOBA		2.62
CUP PLANT	SILEHIUM PERFORLIATUM	PLS	1.64
RIDDELL'S GOLDENROG	SOLIDAGO RIDDELLII	PLS	1.31
BLUE VERVAIN	VERBENA HASTATA	PLS	0.65
COMMON IRONWEED	VERBENA FASCICULATA	PLS	1.31
GOLDEN ALEXANDERS	ZIZIA AUREA	PLS	1.96
GRASSES, SEDGES AND BUSHES (77.25%)			
BIG BLUESTEM	ANDROPOGAN GERARDII	PLS	52.37
CANADA WILD RYE	ELYMUS CANADENSIS	PLS	10.47
VIRGINIA WILD RYE	ELYMUS VIRGINICUS	PLS	10.47
SWITCH GRASS	PANICUM VIRGATUM	PLS	2.62
BARK-GREEN BULRUSH	SCRIPUS ATROVIRENS	PLS	1.31



TREE PLANTING (LESS THAN 4-INCH CALIPER)

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DR BY	AJS	PROJ NO	24-0266.03
CHK BY	KKA	DATE	JANUARY 2015

NO	DATE	REVISION	NO	DATE	REVISION
1	1/05/15	BID DOCUMENTS	####		
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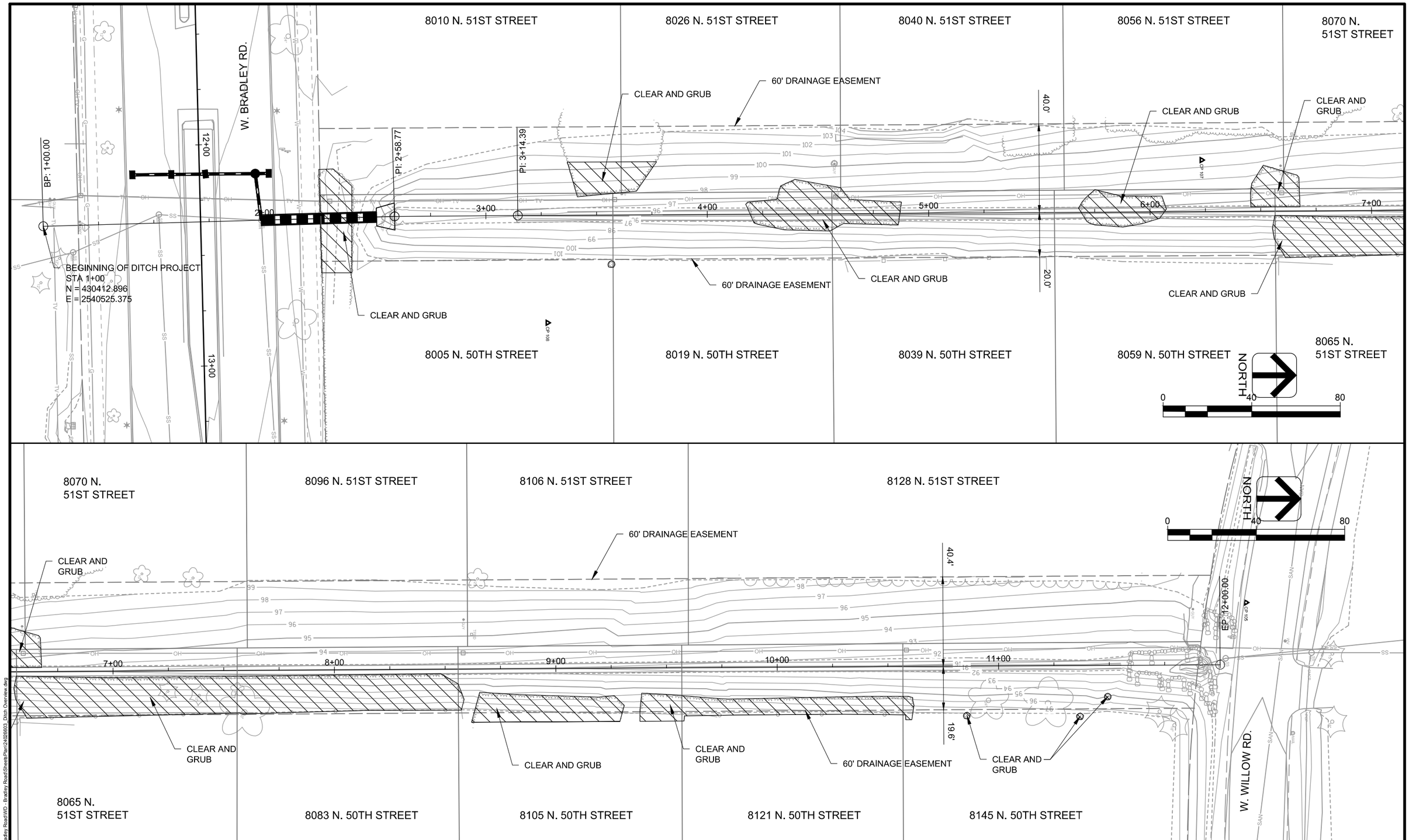
W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

MEDIAN LANDSCAPE PLAN PLANTING DETAILS

SHEET NO
LS006



DES BY	AJS	BOOK NO	----
DR BY	AJS	PROJ NO	24-0266.03
CHK BY	KKA	DATE	JANUARY 2015

NO	DATE	REVISION
1	1/05/15	BID DOCUMENTS
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NO	DATE	REVISION
####		
####		
####		

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

DITCH OVERVIEW SHEET

SHEET NO
SW001

AA-Standard.stb
1/5/2015
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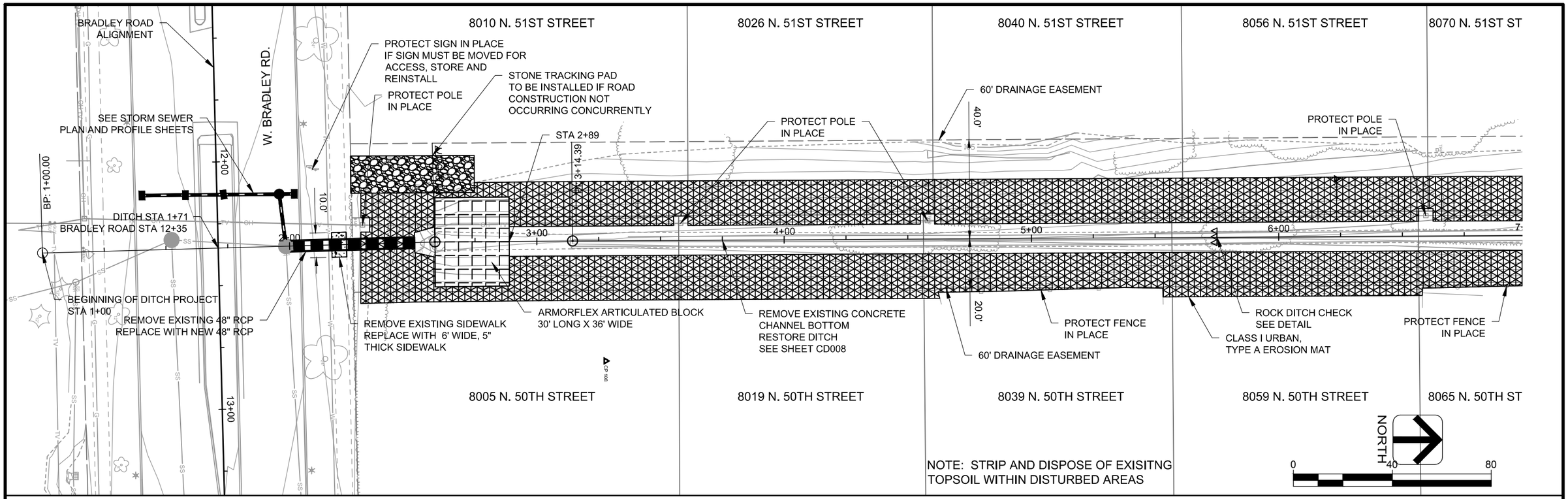
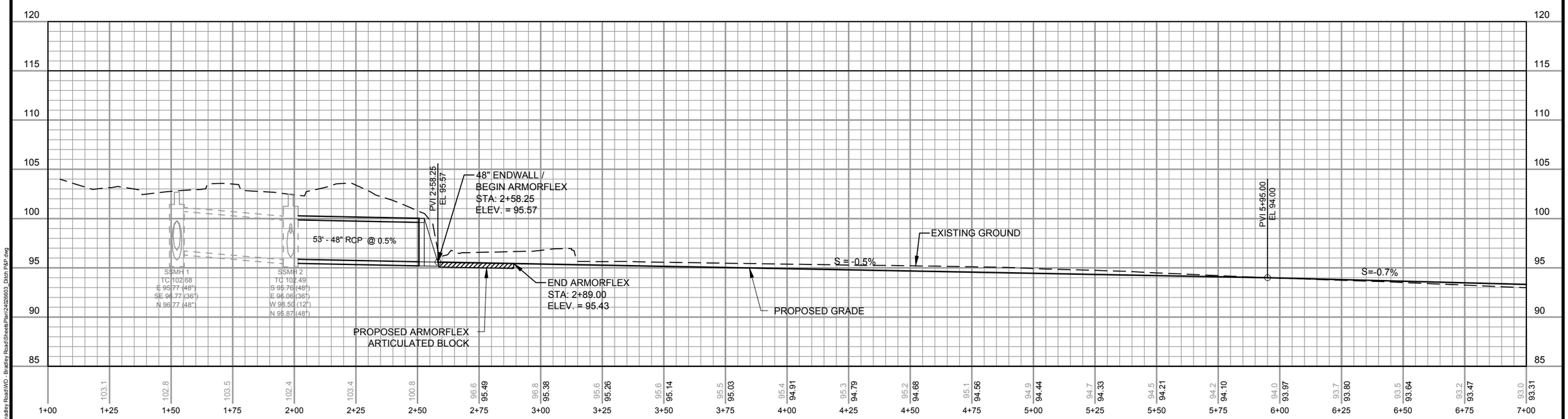


NOTE: STRIP AND DISPOSE OF EXISITNG TOPSOIL WITHIN DISTURBED AREAS



DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			AYRES ASSOCIATES WAUKESHA, WI
CHK BY KKA	DATE JANUARY 2015	####			####			DITCH REHABILITATION STA 2+50 - STA 7+00
		NO	DATE	REVISION	NO	DATE	REVISION	SHEET NO SW002

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1/5/2015
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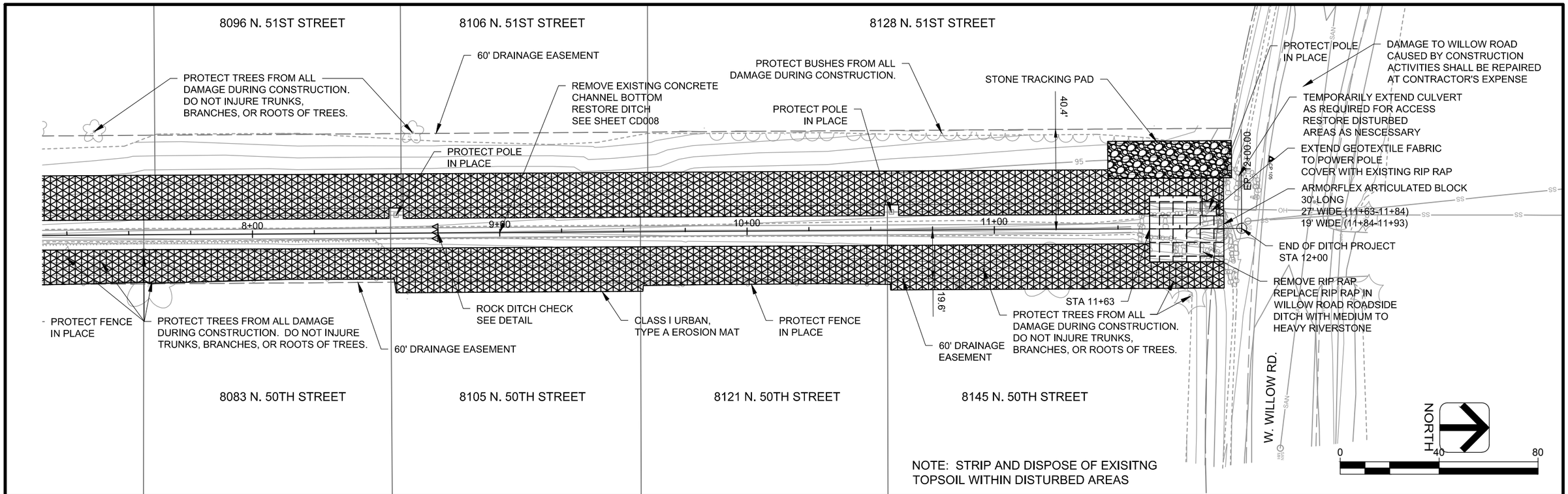
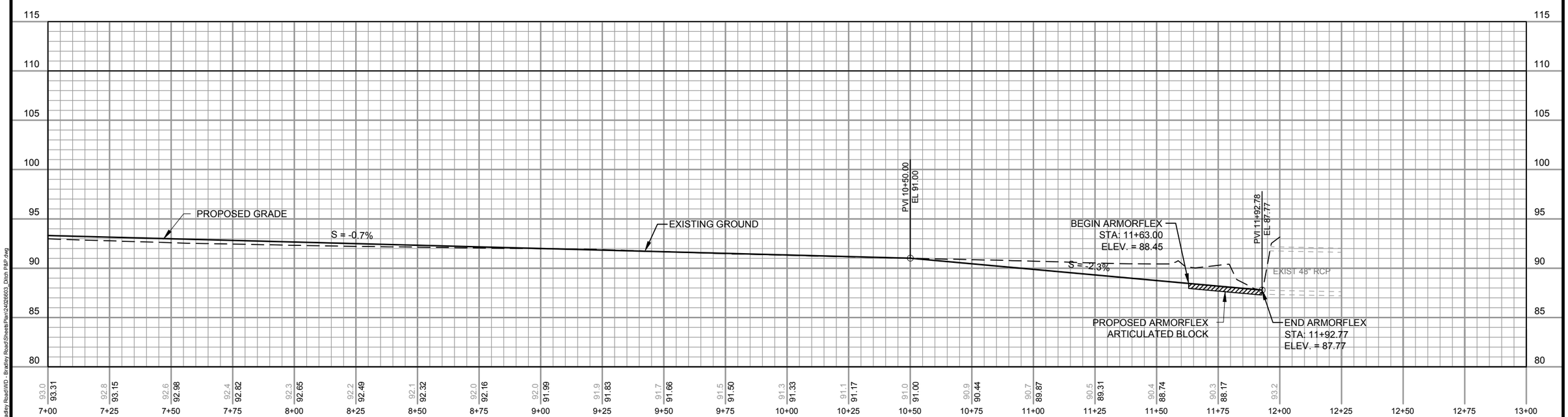


NOTE: STRIP AND DISPOSE OF EXISITNG TOPSOIL WITHIN DISTURBED AREAS



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CHK BY	KKA	DATE	JANUARY 2015

NO	DATE	REVISION	NO	DATE	REVISION
1	1/05/15	BID DOCUMENTS	####		
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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

DITCH REHABILITATION STA 7+00 - STA 12+00

SHEET NO
SW003

AA-Standard.stb
1/5/2015
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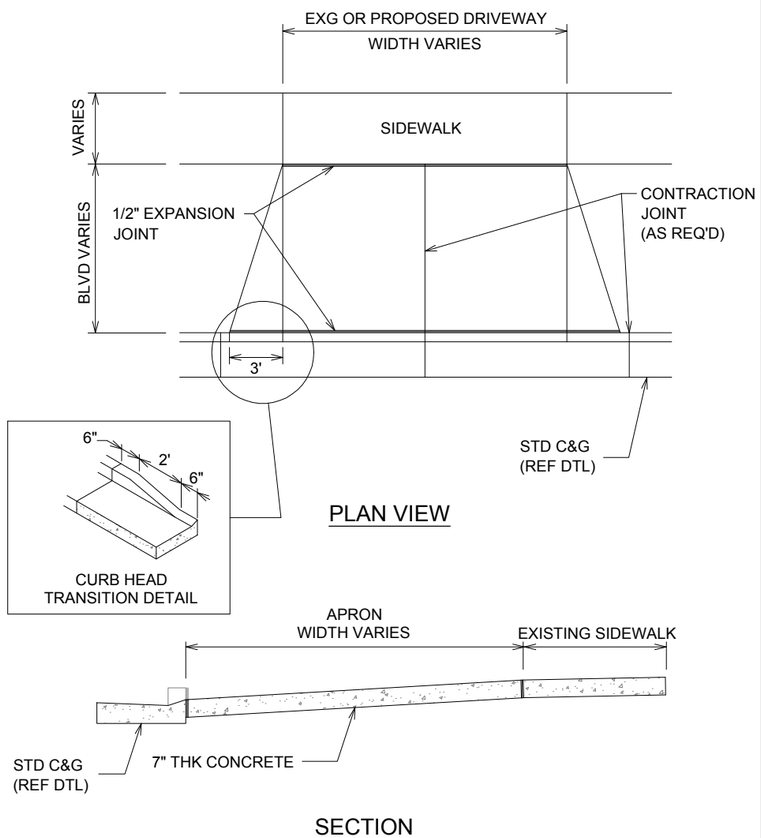
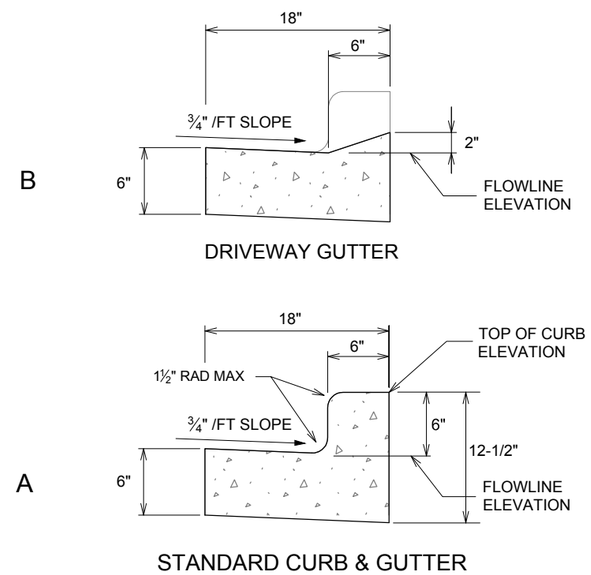


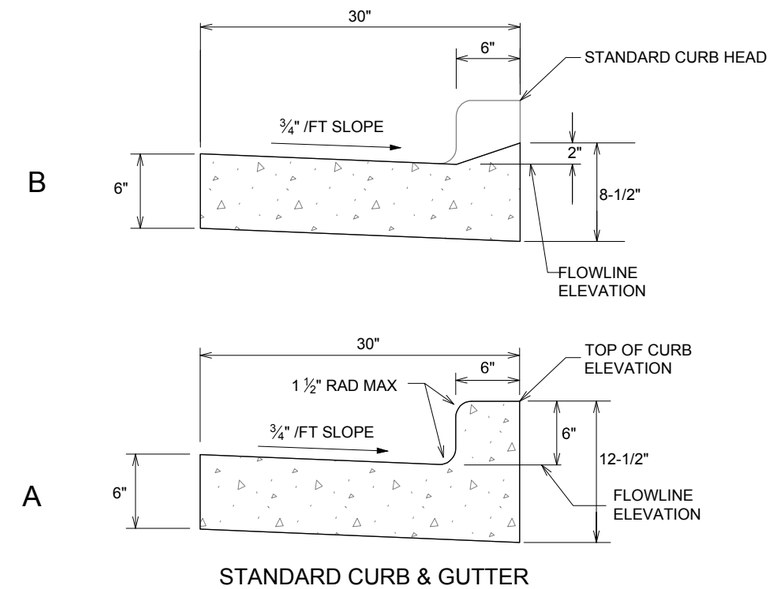
1 CONCRETE DRIVEWAY APRON

NTS ST104



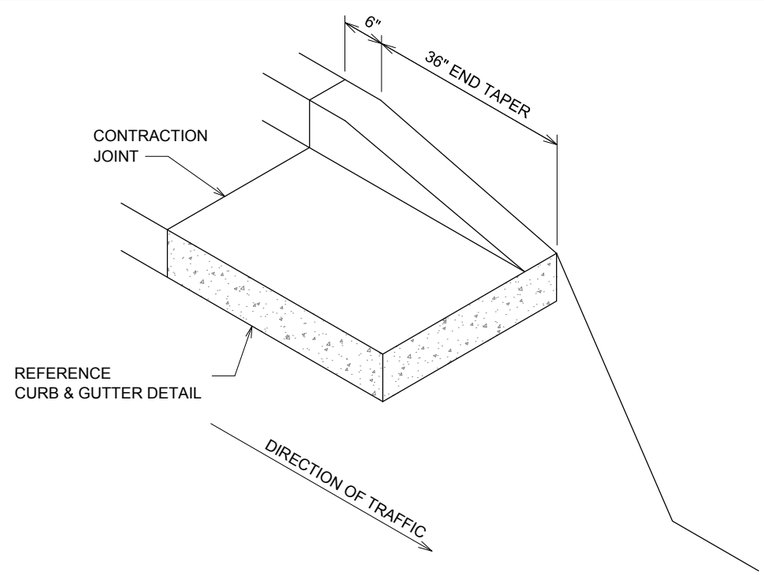
2 18" CONCRETE CURB & GUTTER

NTS ST500



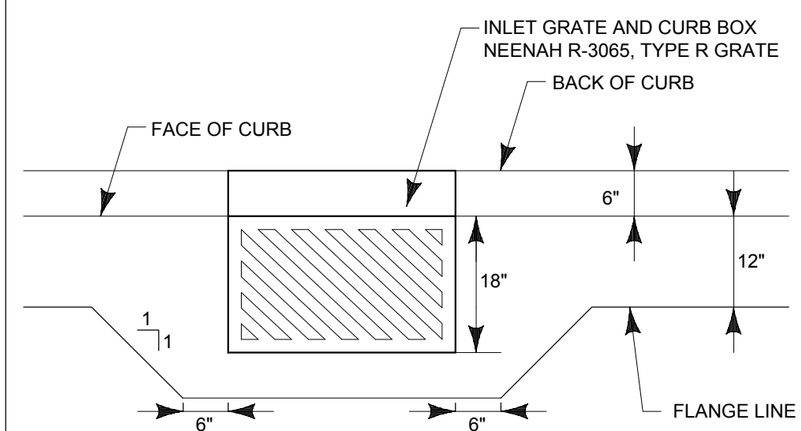
3 30" CONCRETE CURB & GUTTER

NTS ST100



4 CURB & GUTTER TERMINATOR

NTS ST101



5 CURB & GUTTER TRANSITION AT CURB INLET

NTS

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DR BY	AJS	PROJ NO	24-0266.03			
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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
W. BRADLEY ROAD RECONSTRUCTION

ROADWAY DETAILS

SHEET NO CD001

A4-Standard.stb
1/5/2015
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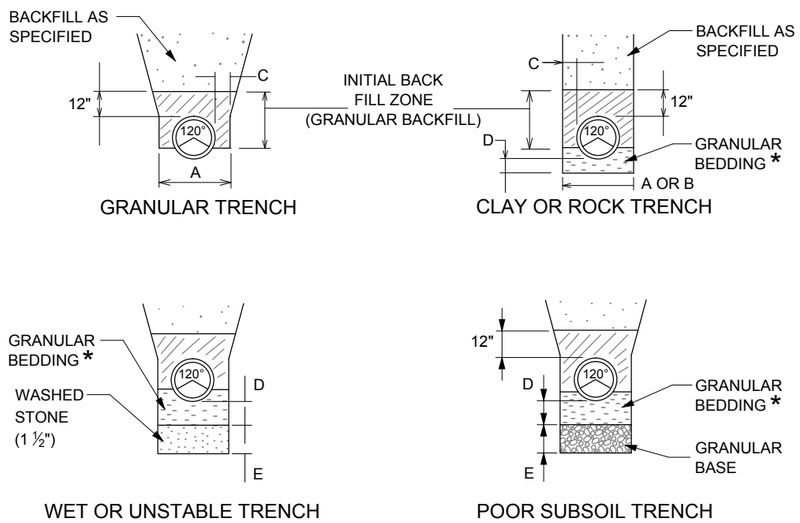


* FOR FLEXIBLE PIPE, BEDDING MATERIAL SHALL EXTEND TO SPRING LINE (MID HEIGHT) OF PIPE.

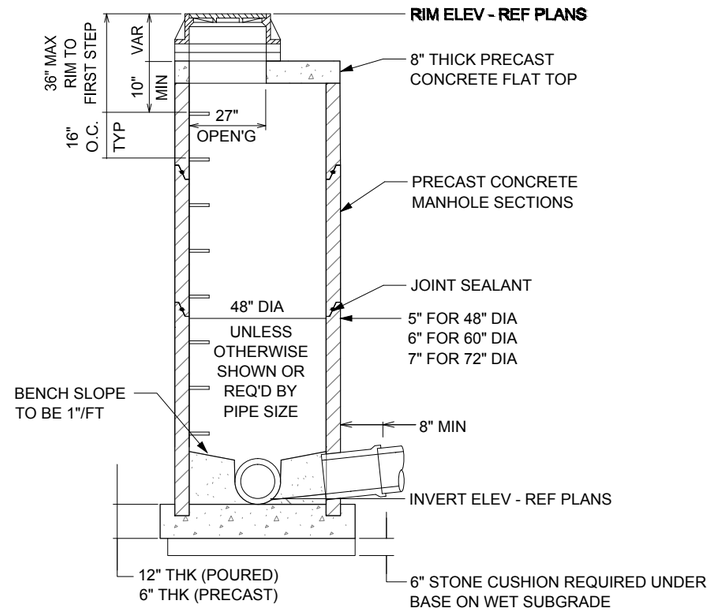
A=O.D. PIPE + 24"(MAX)
B=O.D. PIPE + 18"(MAX) FOR ROCK
C=6" MIN.

D=4" BELOW BARREL FOR CLAY
3" BELOW BELL FOR CLAY
6" BELOW BARREL FOR ROCK
E=DETERMINED BY A/E

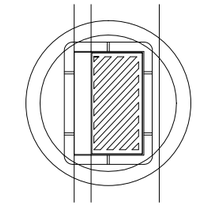
1 TRENCH SECTIONS
NTS

CASTING: NEENAH R-1550 WITH TYPE B MACHINED LID OR APPROVED EQUAL.

ADJUST FRAME TO GRADE WITH A MINIMUM OF TWO ADJUSTING RINGS TOTALING 6" MIN TO 12" MAX

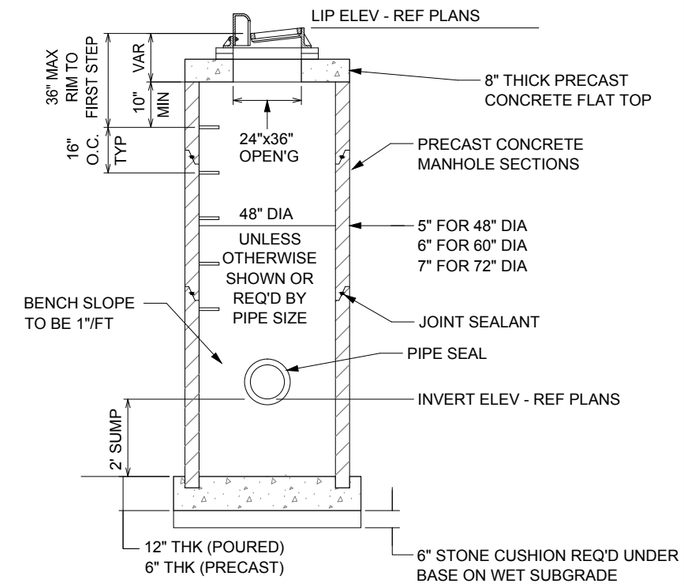


2 STANDARD STORM MANHOLE
NTS

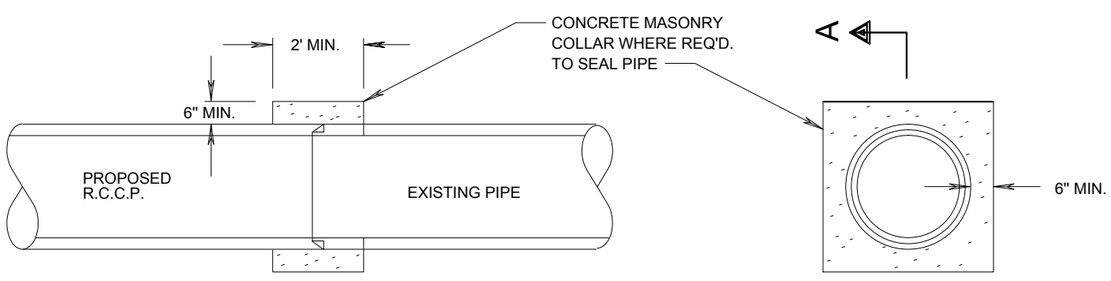


CASTING: NEENAH R-3065-C FRAME WITH TYPE R' GRATE OR APPROVED EQUAL

ADJUST FRAME TO GRADE WITH A MINIMUM OF TWO ADJUSTING RINGS TOTALING 6" MIN TO 12" MAX

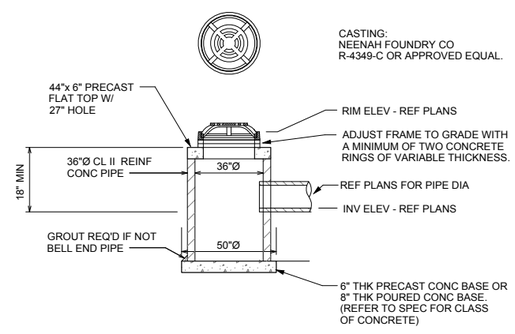


3 CONCRETE INLET DETAIL
NTS



SECTION A-A

4 CONCRETE COLLAR - TO EXISTING PIPE
NTS



5 36" CONCRETE AREA INLET
NTS

DES BY AJS	BOOK NO ----	1	1/05/15	BID DOCUMENTS			
DR BY AJS	PROJ NO 24-0266.03						
CHK BY KKA	DATE JANUARY 2015	NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
W. BRADLEY ROAD RECONSTRUCTION

STORM SEWER DETAILS

SHEET NO CD002

AA-Standard.stb
1/5/2015
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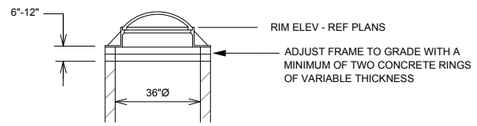
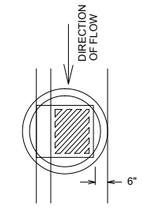
CASTING:
NEENAH FOUNDRY CO
R-4349-C OR APPROVED EQUAL.

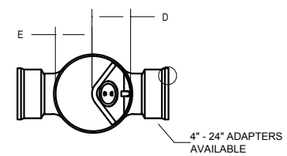


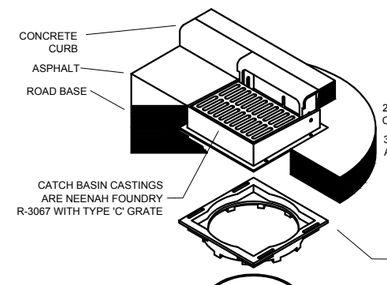


CASTING:

NEENAH FOUNDRY CO
R-3067 INLET FRAME
WITH TYPE 'C" GRATE

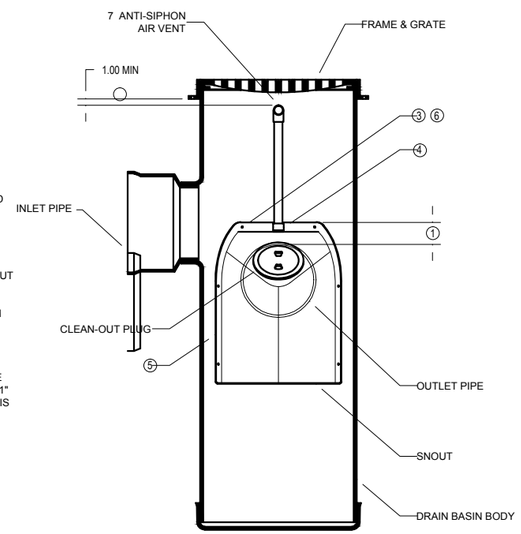
OR APPROVED EQUAL.

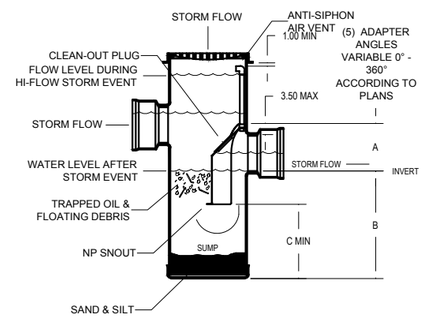




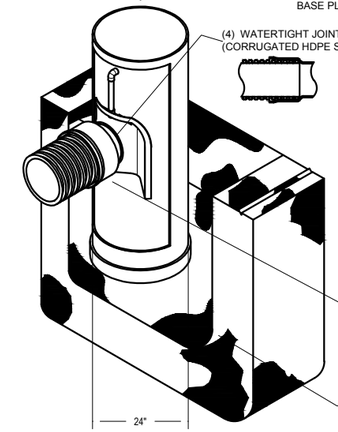
PIPE SIZE	A	B (24" BASINN)	B (30" BASIN)	C
12"	15.05	34.51	41.33	24.00
15"	17.78	37.78	44.60	30.00

1. MEASURE 3.50" UP FROM THE TOP OF THE OUTLET PIPE INSIDE DIAMETER & MAKE A HORIZONTAL MARK
2. INSERT THE SNOUT & PLACE THE TOP EDGE OF THE FLANGE ON THE HORIZONTAL MARK. POSITION THE SNOUT DIRECTLY OVER THE OUTLET PIPE SO THAT THE ENTIRE OUTLET IS COVERED & THE FLANGES OF THE SNOUT DO NOT BLOCK THE INLET PIPES (SEE DRAWING NO. 7004-110-043, 7004-110-044, & 7004-110-045 FOR MINIMUM ANGLE BETWEEN ADAPTERS).
3. MARK & PRE-DRILL (TO MATCH THE HOLES IN THE SNOUT) 3/16" PILOT HOLES, FOR THE #14 X 1 1/4" SS SELF TAPPING HEX DRIVE SCREWS, THAT ARE PROVIDED IN THE INSTALL KIT. INSTALL1#4 X 1" NEOPRENE BACKED WASHERS ON EACH SCREW.
4. ATTACH THE 1" VENT PIPE ADAPTER IN THE PRE-DRILLED HOLE ON THE TOP OF THE SNOUT, USING THE 2 FLAT O RING GASKETS & PVC LOCK-NUT THAT ARE SUPPLIED IN THE KIT. INSTALL THE ADAPTER, WITH THE FEMALE SLIP ADAPTER UP & A WASHER ON EACH SIDE OF THE SNOUT SHELL. TIGHTEN THE PVC LOCK-NUT BY HAND.
5. REMOVE THE PSA BACKING FROM THE GASKET STRIP THAT IS PROVIDED IN THE KIT. ATTACH THE GASKET STRIP TP THE BACK OF THE SNOUT FLANGE WITH FIRM PRESSURE, & TRIM ANY EXCESS GASKET MATERIAL.
6. ATTACH THE SNOUT TO THE DRAIN BASIN WITH THE #14 SS SCREWS, & TIGHTEN TO APPROXIMATELY 10-15 LBS.
7. CUT THE ANTI-SIPHON AIR VENT PIPE TO LENGTH & ATTACH TO SNOUT AT SLIP ADAPTER WITH PVC CEMENT. aTTACH THE 90 DEGREE ELBOW TO THE VENT PIPE WITH PVC CEMENT. THE TOP OF THE 90 DEGREE ELBOW SHOULD BE A MINIMUM 1" FROM THE BOTTOM OF THE GRATE FRAME. ENSURE THAT THE ELBOW OPENING IS ACCESSIBLE FOR MAINTENANCE & INSPECTION.





1 - SNOUT AVAILABLE WITH ALL 18" - 30" STRUCTURE OPTIONS (CUSTOM BASIN, ROAD & HIGHWAY, & CURB INLET).
2 - FRAMES, GRATES, COVERS, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7004-110-043.



Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

NYLOPLAST CATCH BASIN AND AREA INLET WITH SUMP & SNOUT

NTS

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DES BY	AJS	BOOK NO	----
DR BY	AJS	PROJ NO	24-0266.03
CHK BY	KKA	DATE	JANUARY 2015

NO	DATE	REVISION
1	1/05/15	BID DOCUMENTS

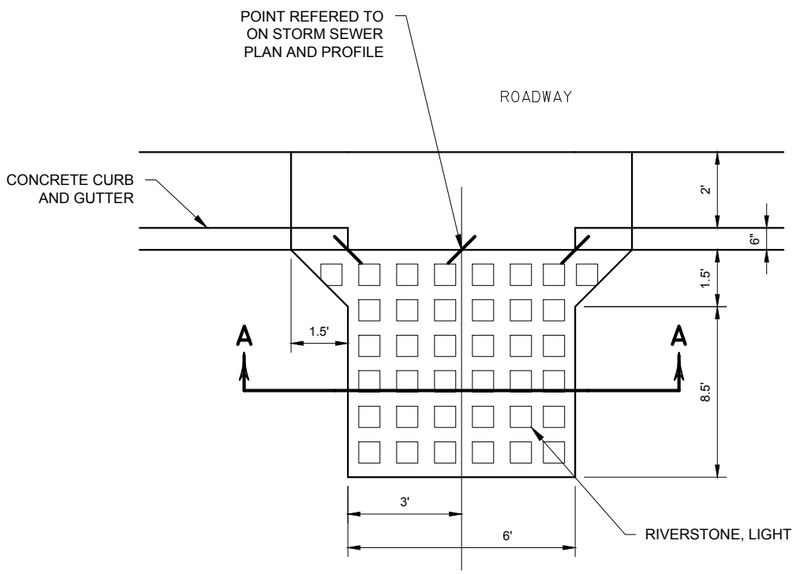
NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

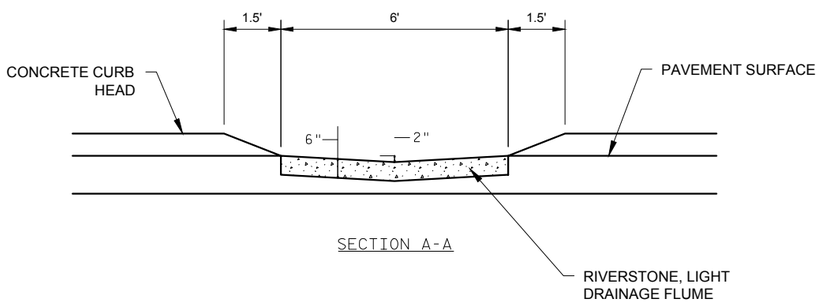
AYRES ASSOCIATES
W. BRADLEY ROAD RECONSTRUCTION

STORM SEWER DETAILS

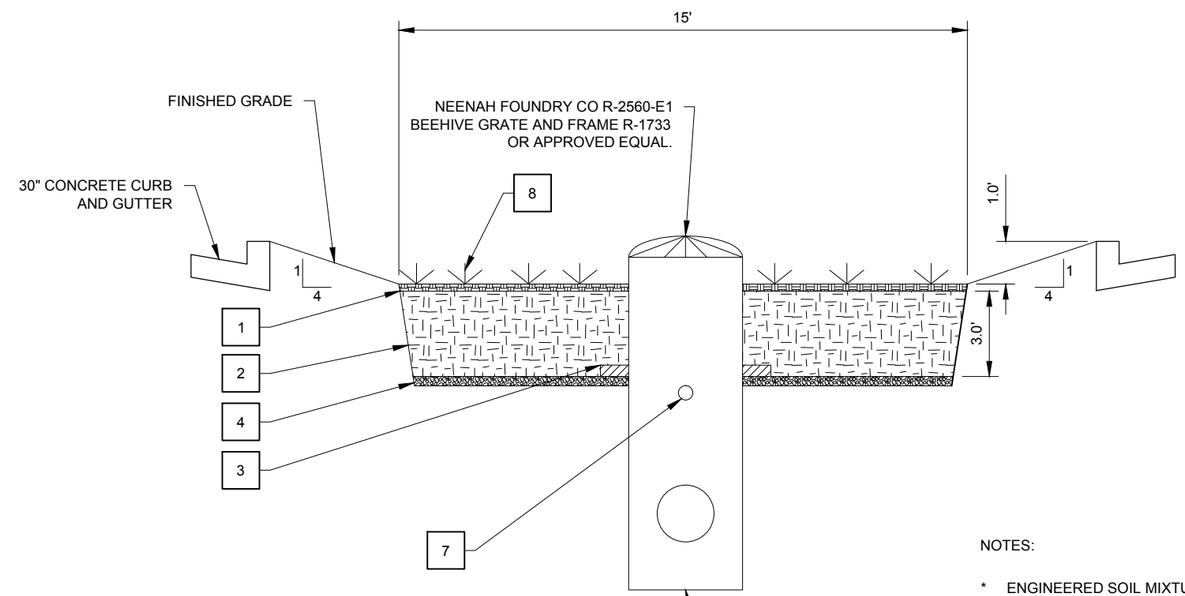
SHEET NO
CD003



PLAN



1 MEDIAN CONCRETE SURFACE DRAIN DETAIL



1 3-INCH SURFACE MULCH LAYER
2 36-INCH ENGINEERED SOIL LAYER
3 FILTER FABRIC (OVER PERFORATED UNDERDRAIN PIPE)
4 4-INCH FILTER AGGREGATE LAYER
5 36-INCH STORAGE LAYER
6 3-INCH SAND INTERFACE LAYER
7 6-INCH UNDERDRAIN PIPING
8 VEGETATION

NYLOPLAST OR CONCRETE (SEE
STORM SEWER PLANS) AREA INLET

NOTES:

* ENGINEERED SOIL MIXTURE
A. 40% SAND
B. 20% TOPSOIL (LOAM TEXTURE)
C. 40% COMPOST

2 MEDIAN BIORETENTION CROSS SECTION

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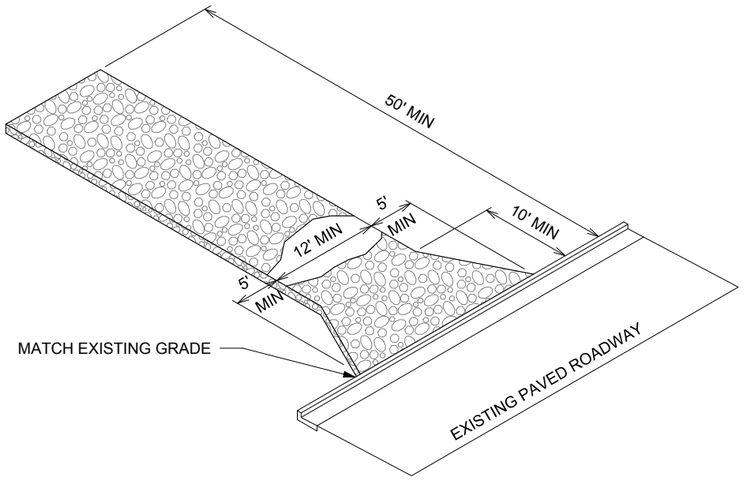
CHK BY KKA	DATE JANUARY 2015	NO	DATE	REVISION	NO	DATE	REVISION	

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
W. BRADLEY ROAD RECONSTRUCTION

BIORETENTION DETAILS

SHEET NO
CD004



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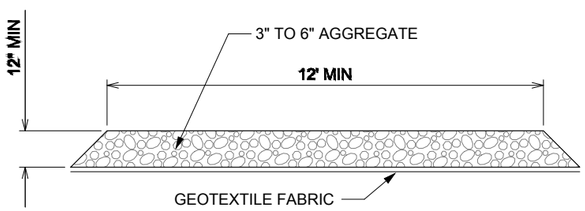
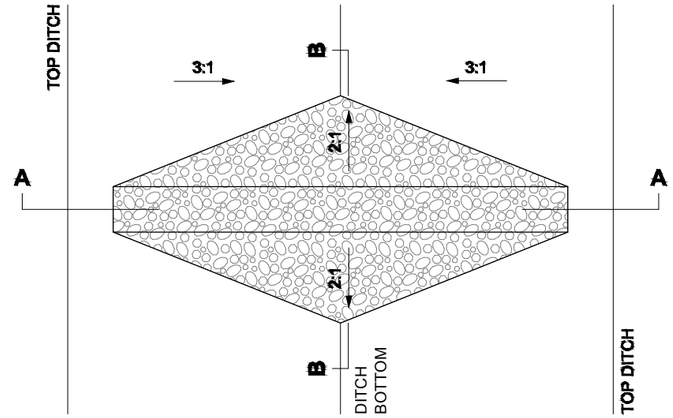


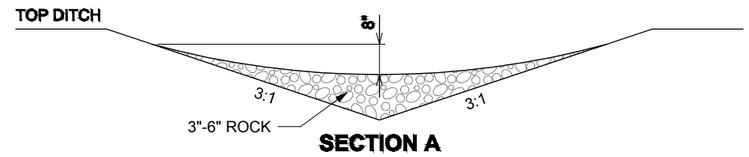
SECTION

1 STONE TRACKING PAD

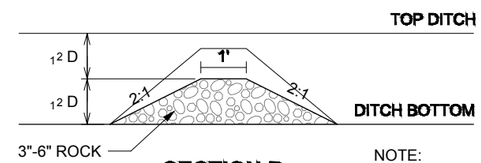
NTS



PLAN



SECTION A



SECTION B

NOTE:
SEDIMENT THAT ACCUMULATES BEHIND THE CHECK DAM SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO ONE-HALF OF THE ORIGINAL HEIGHT OF THE DAM.

2 ROCK DITCH CHECK

NTS

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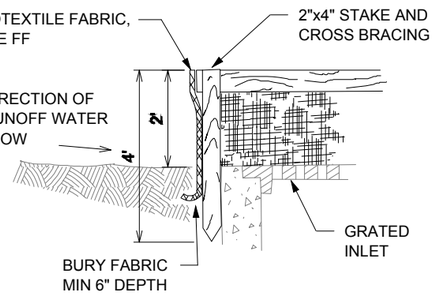
DR BY	AJS	PROJ NO	24-0266.03	1	1/05/15	BID DOCUMENTS			
CHK BY	KKA	DATE	JANUARY 2015						

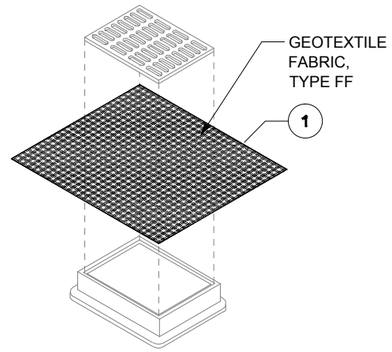
W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
W. BRADLEY ROAD RECONSTRUCTION

EROSION CONTROL DETAILS

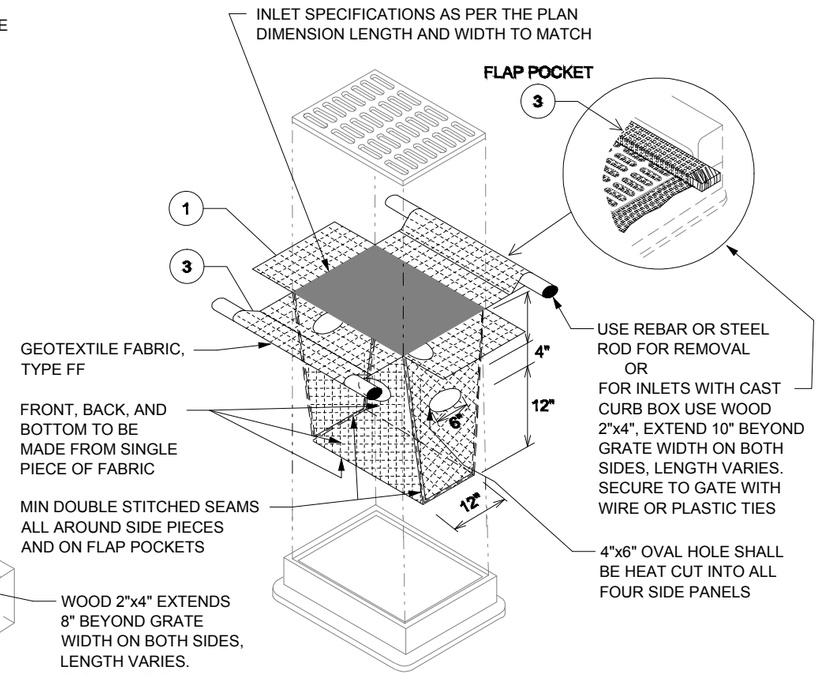
SHEET NO
CD005

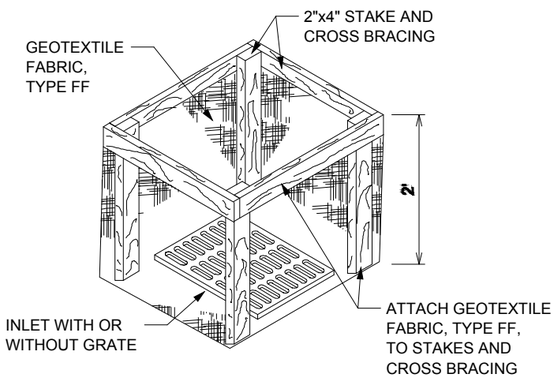




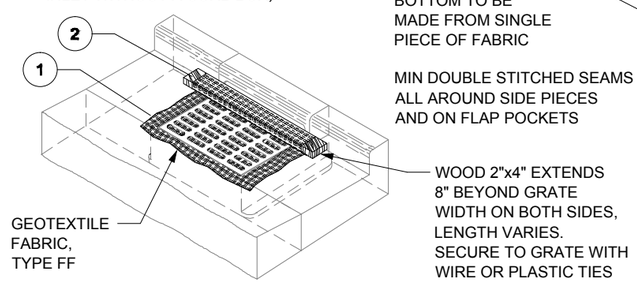
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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
(WITHOUT CURB BOX)

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

GENERAL NOTES

-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 IN TO HE 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 A 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.

1 INLET PROTECTION

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AJS	----	1	1/05/15	BID DOCUMENTS			
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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
W. BRADLEY ROAD RECONSTRUCTION

EROSION CONTROL DETAILS

SHEET NO
CD006

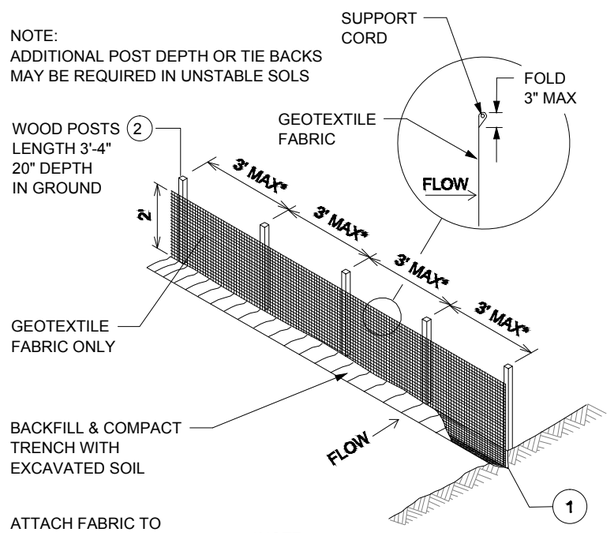
GENERAL NOTES

1. TRENCH SHALL BE A MIN OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD THE MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

2. WOOD POSTS SHALL BE A MIN SIZE OF 1 1/8" x 1 1/8" OAK OR HICKORY.

3. 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. TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.
   B. HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.

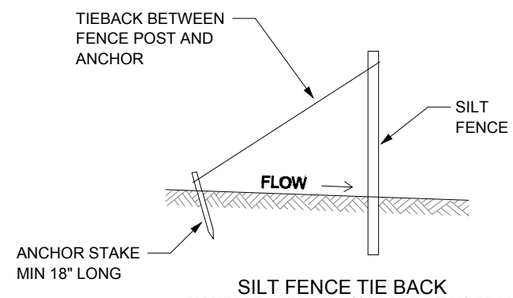
NOTE:
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOLS



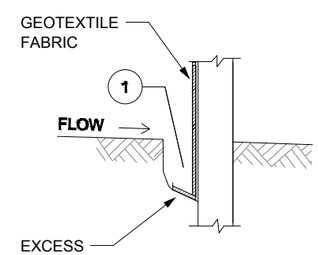
ATTACH FABRIC TO TIE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS

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

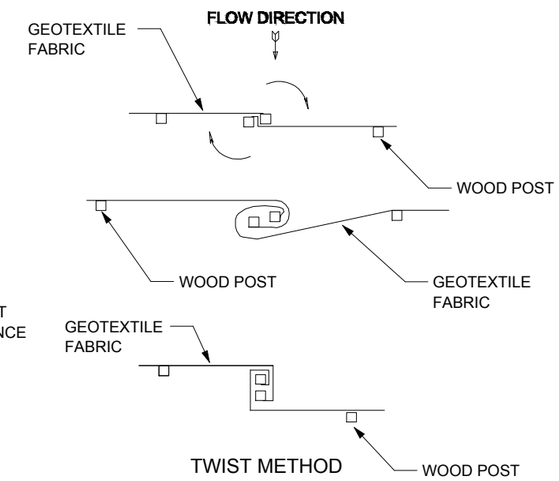
SILT FENCE



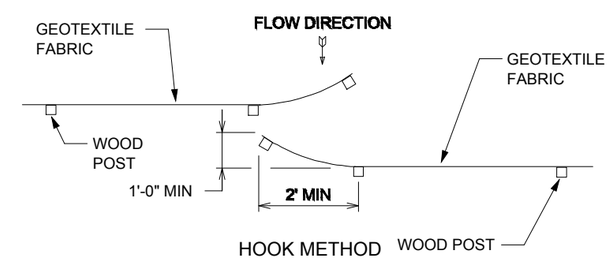
SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)



TRENCH DETAIL



TWIST METHOD



HOOK METHOD

JOINING 2 LENGTHS OF SILT FENCE

(1) SILT FENCE
NTS

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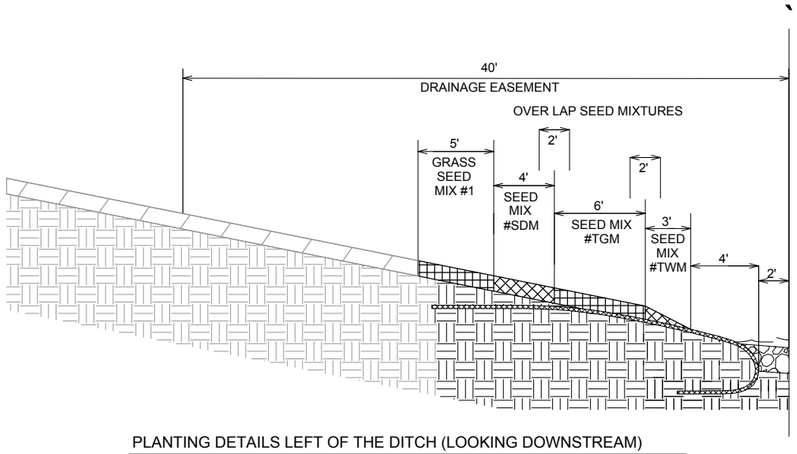
NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
W. BRADLEY ROAD RECONSTRUCTION

EROSION CONTROL DETAILS

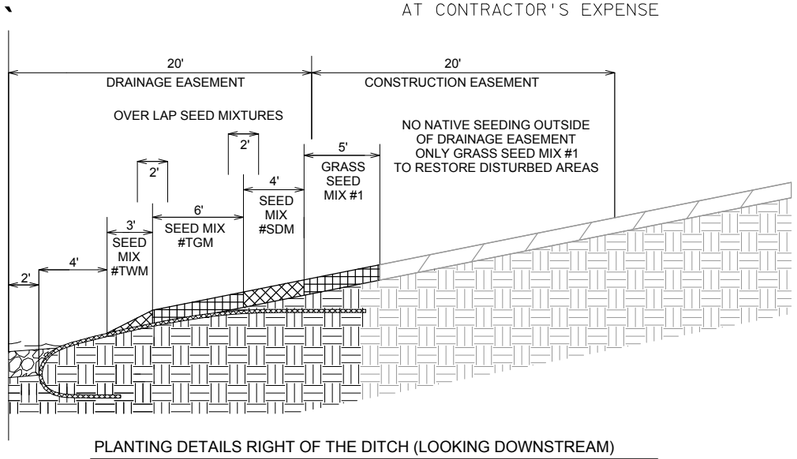
SHEET NO
CD007



PLANTING DETAILS LEFT OF THE DITCH (LOOKING DOWNSTREAM)

NOT TO SCALE

NOTE: CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF PROPOSED DISTURBED AREAS SHOWN AT CONTRACTOR'S EXPENSE



PLANTING DETAILS RIGHT OF THE DITCH (LOOKING DOWNSTREAM)

NOT TO SCALE

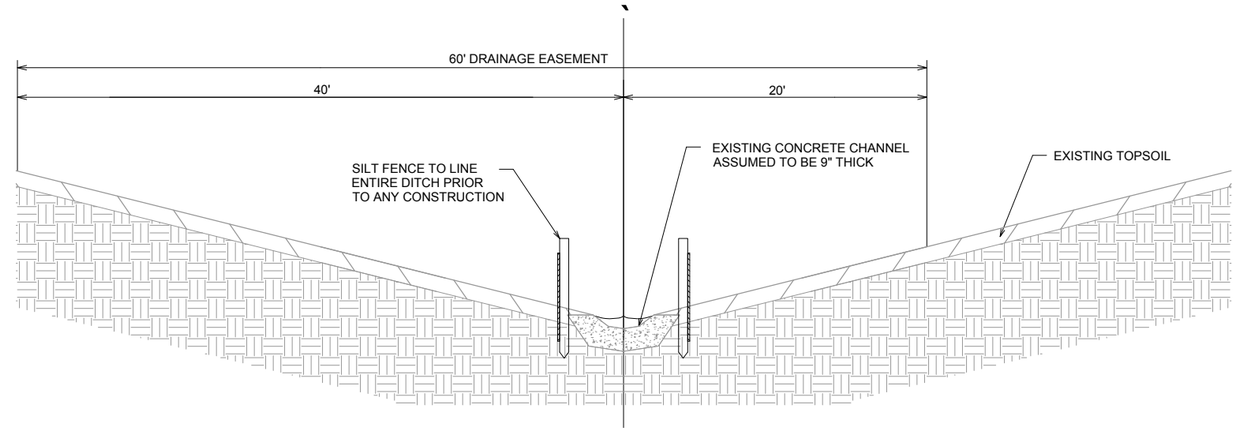
NOTES:
PLANTING OF ALL SEEDS SHALL BE DONE FOLLOWING MANUFACTURERS RECOMMENDATIONS.

ALL AREAS THAT ARE DISTURBED AND NOT INSIDE THE SPECIFIED SEED MIXTURE AREAS SHALL BE RESTORED WITH GRASS SEED MIXTURES #1.

NATIVE SPECIES SEED MIXTURES SHALL OVERLAP 2'.

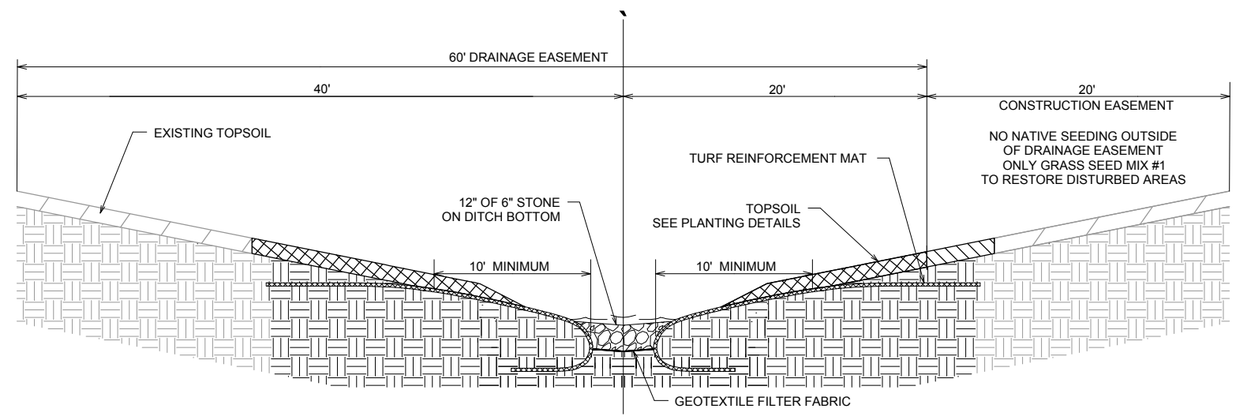
APPROVE ALL SEEDS WITH ENGINEER PRIOR TO INSTALLATION.

#TWM = TALL GRASS PRAIRIE FOR WET MESIC SOILS
#TGM = TALL GRASS PRAIRIE FOR MESIC SOILS
#SDM = SHORT GRASS PRAIRIE FOR DRY MESIC SOILS



EXISTING CROSS SECTION STA 2+75 TO STA 11+75

NOT TO SCALE



PROPOSED CROSS SECTION STA 2+75 TO STA 11+75

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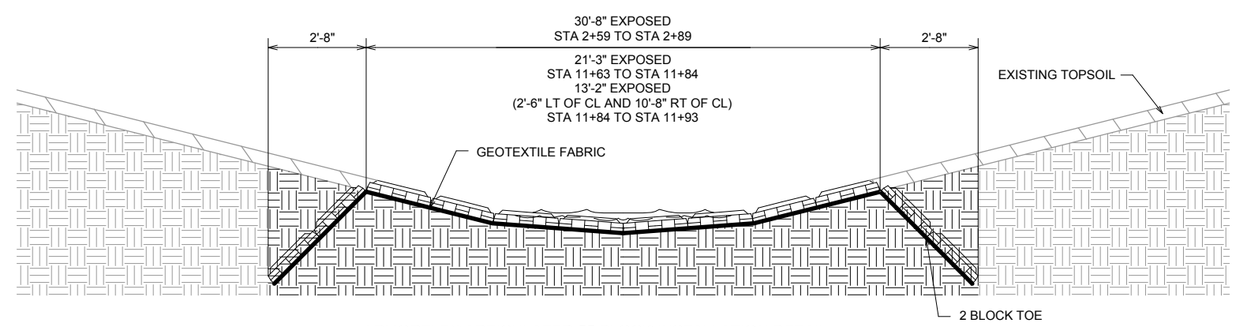

ARMORFLEX ARTICULATED 55 BLOCK INSTALLATION DETAIL

NOT TO SCALE

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W. BRADLEY ROAD RECONSTRUCTION

BROWN DEER, WI

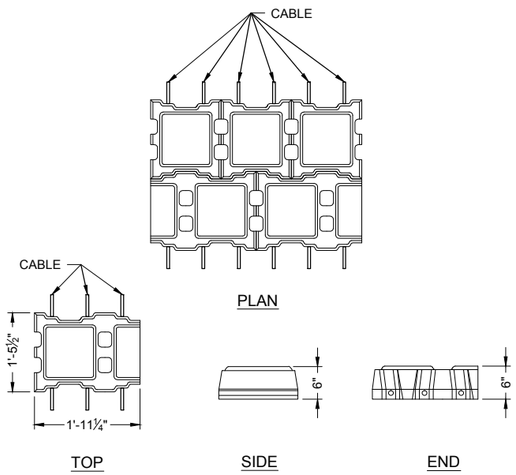
AYRES ASSOCIATES

W. BRADLEY ROAD RECONSTRUCTION

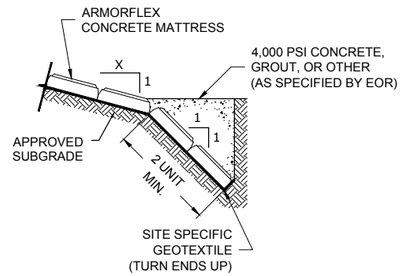
DITCH REHABILITATION DETAILS

SHEET NO

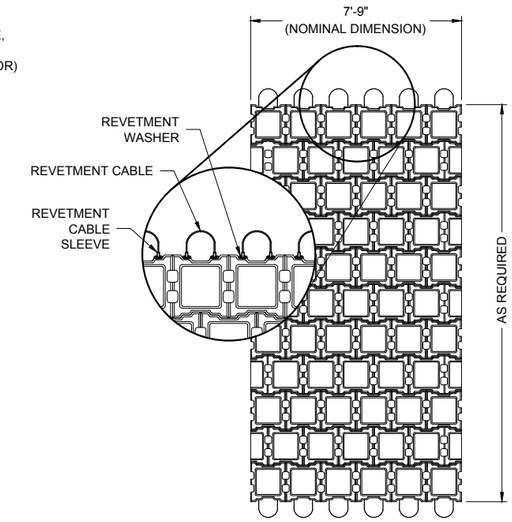
CD008



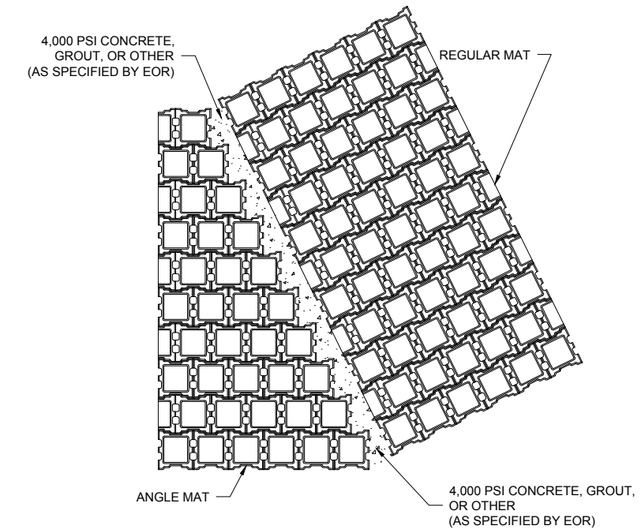
TYP. 55 - 1.5 BLOCK
NOT TO SCALE



SECTION
NOT TO SCALE

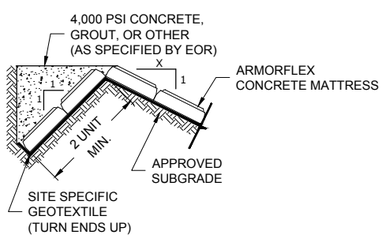


TYP. 55 BLOCK 1.5 MAT
NOT TO SCALE



NOTE:
ANGLE MATS WILL BE CONSTRUCTED BY OMITTING THE REQUIRED UNITS SO THE REQUIRED MAT DIMENSIONS CAN BE OBTAINED.

TYP. ANGLE MAT
NOT TO SCALE



SECTION
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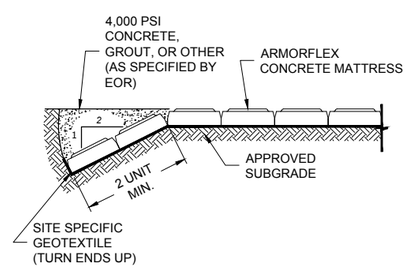

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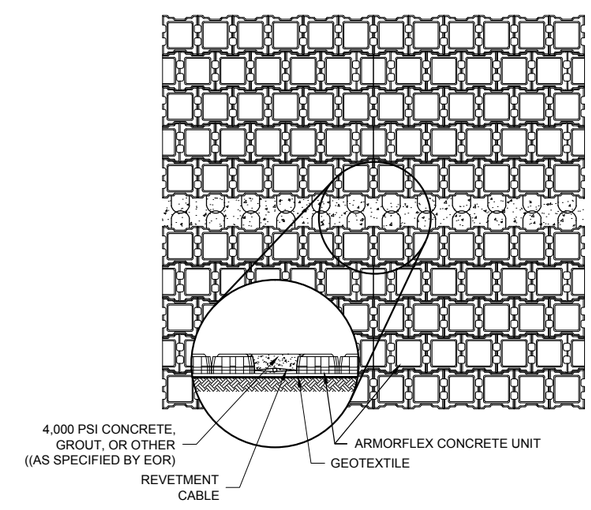

TYP. MAT TO MAT
NOT TO SCALE

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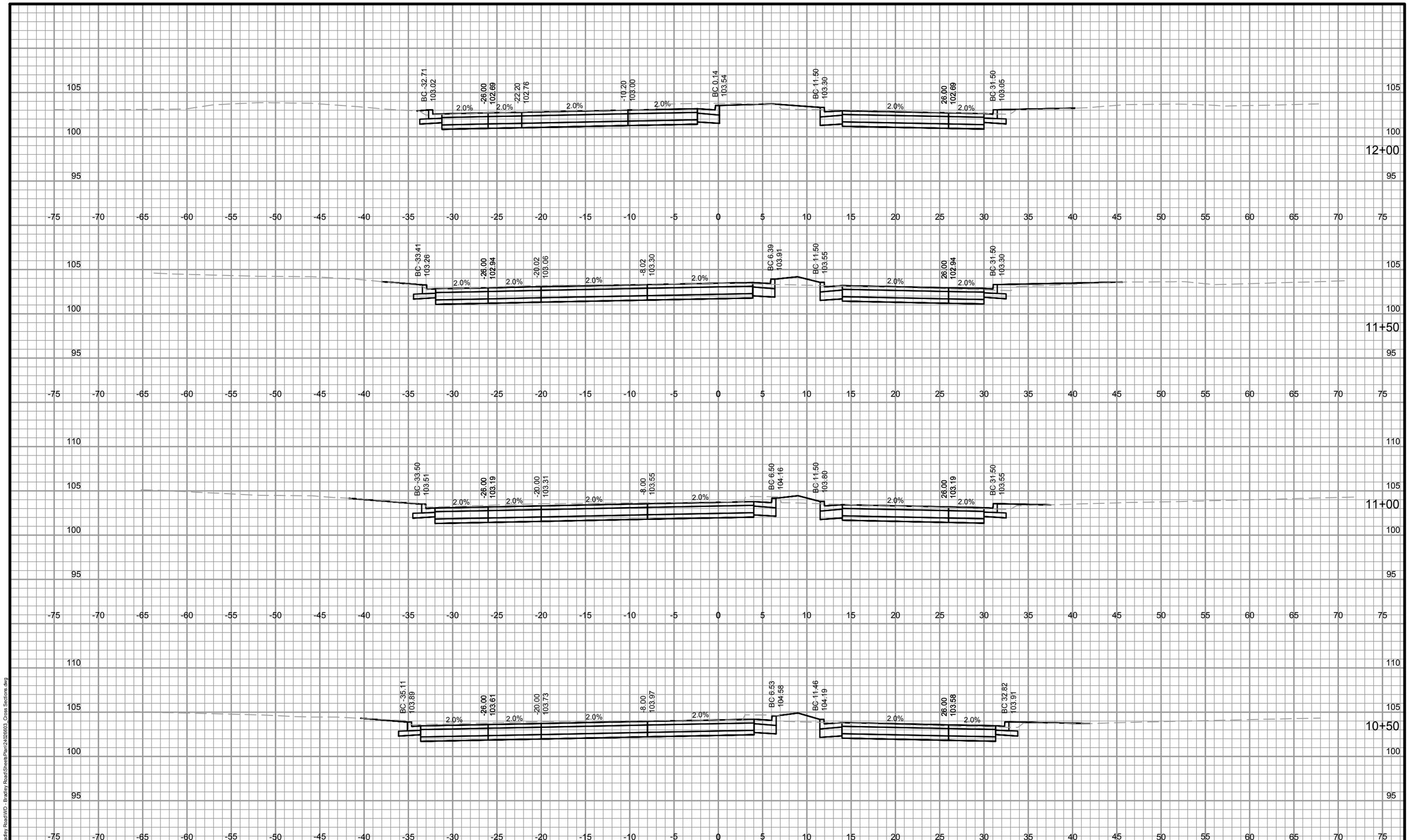
CHK BY KKA	DATE JANUARY 2015	NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
W. BRADLEY ROAD RECONSTRUCTION

ARMORFLEX ARTICULATED BLOCK DETAILS

SHEET NO
CD009



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DR BY AJS	PROJ NO 24-0266.03	####			####			AYRES ASSOCIATES WAUKESHA, WI	ROADWAY CROSS SECTIONS	XS001
CHK BY KKA	DATE JANUARY 2015	####			####				
		NO	DATE	REVISION	NO	DATE	REVISION		

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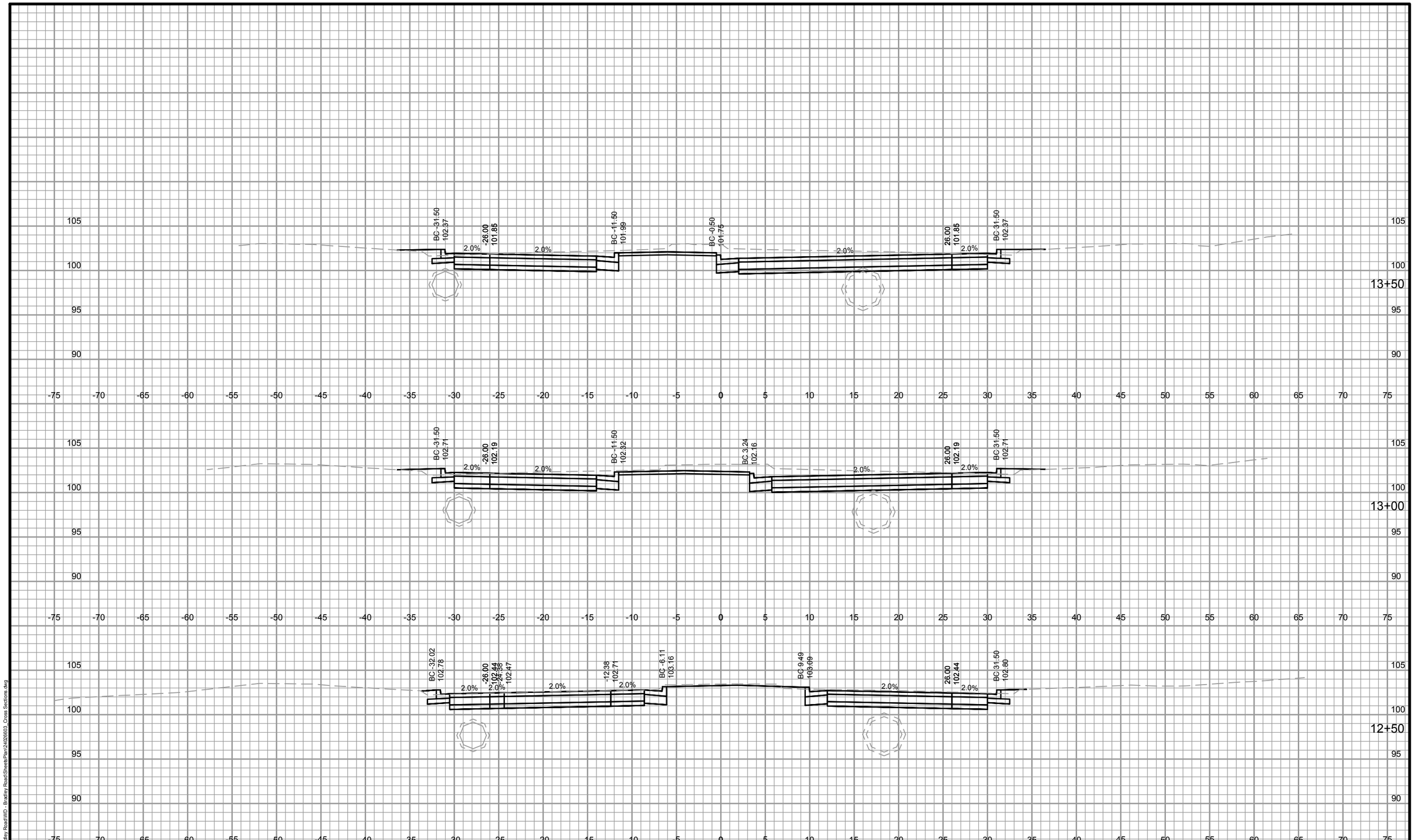

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1/5/2015
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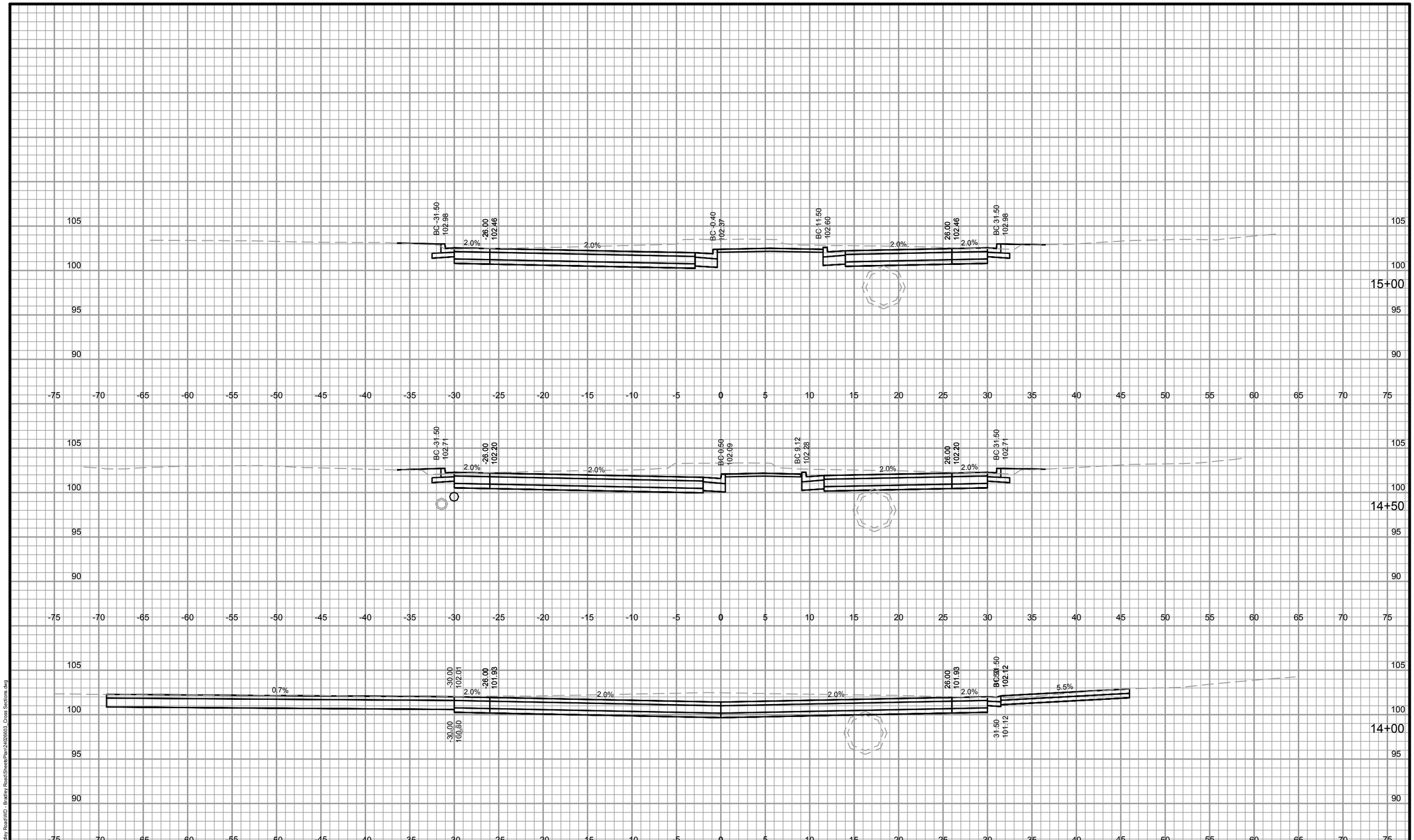
DES BY	AJS	BOOK NO	----	1	1/05/15	BID DOCUMENTS	####		
DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS002



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DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS003

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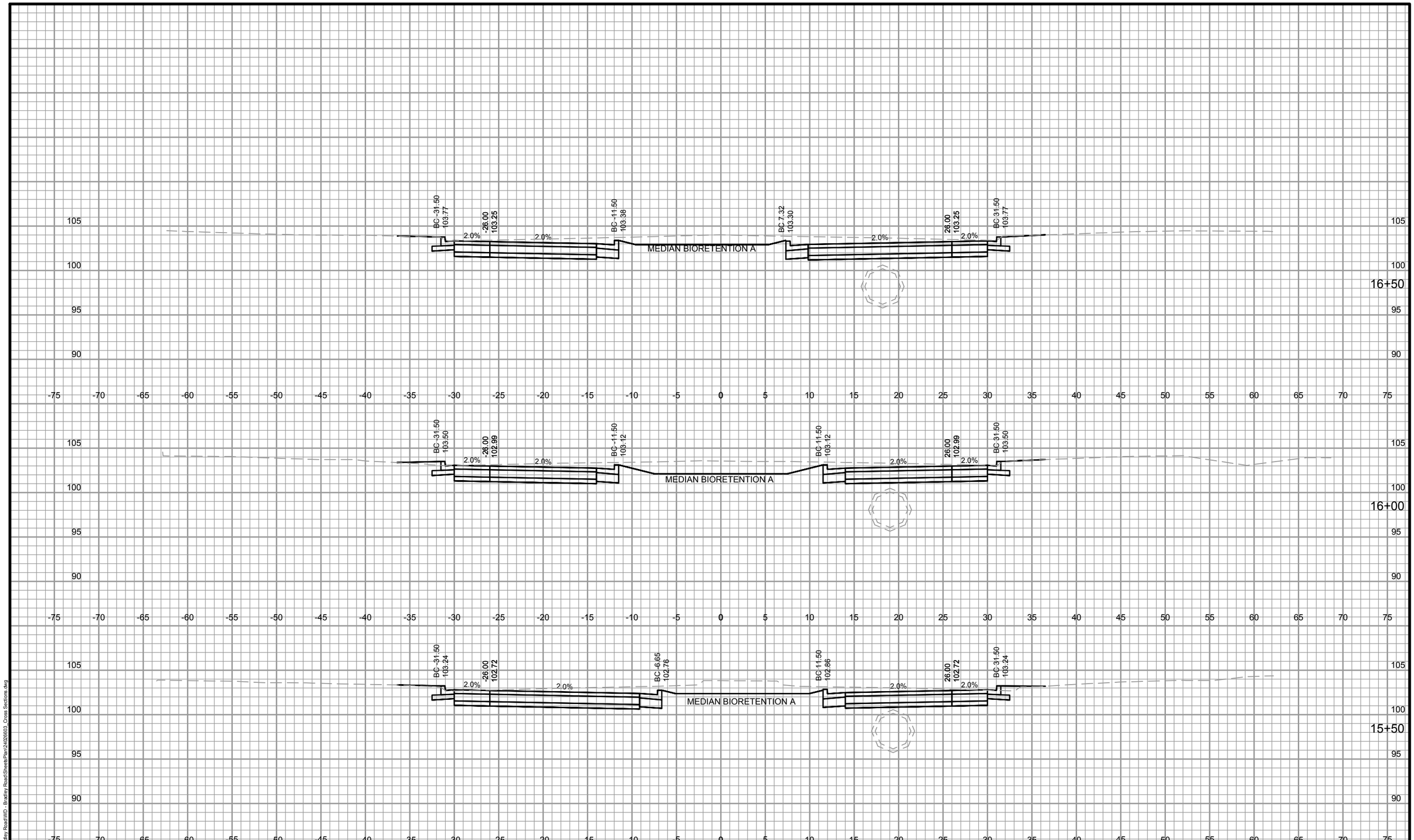

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DR BY AJS	PROJ NO 24-0266.03	####			####			AYRES ASSOCIATES WAUKESHA, WI	ROADWAY CROSS SECTIONS
CHK BY KKA	DATE JANUARY 2015	####			####				
		NO	DATE	REVISION	NO	DATE	REVISION		

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1/5/2015
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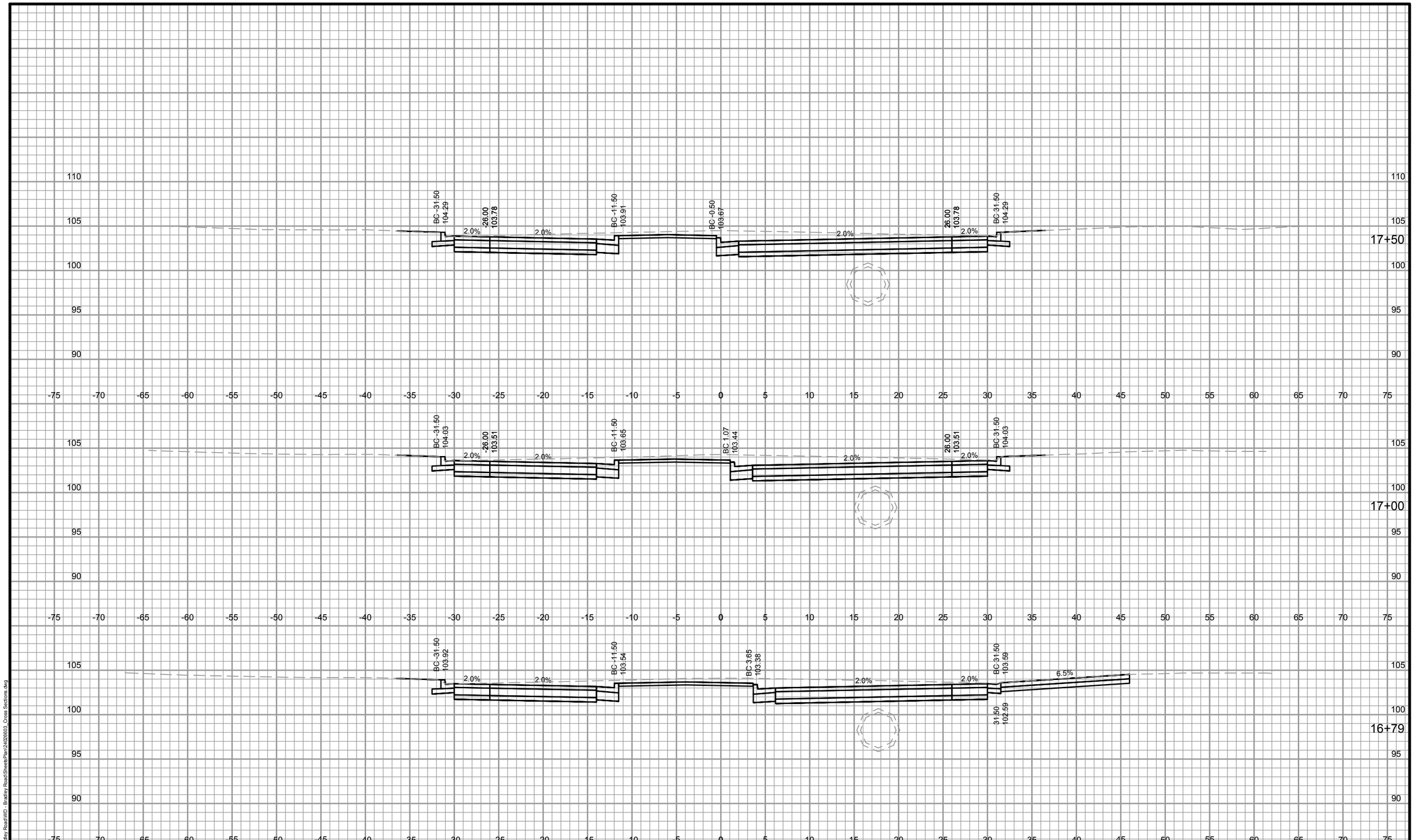

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DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS005

AA-Standard.stb
1/5/2015
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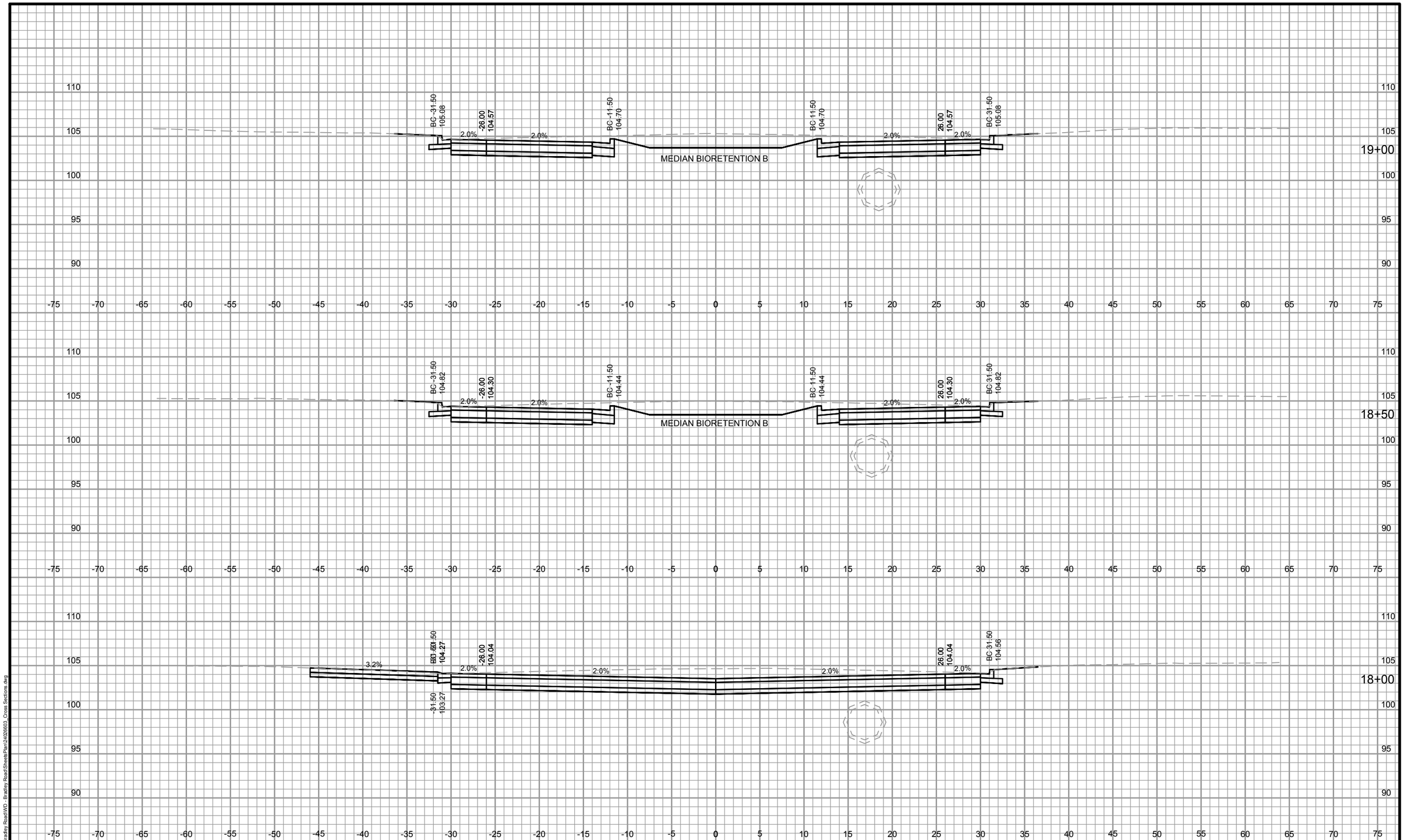

DES BY AJS	BOOK NO ---	1	1/05/15	BID DOCUMENTS	####			W. BRADLEY ROAD RECONSTRUCTION BROWN DEER, WI
DR BY AJS	PROJ NO 24-0266.03	####			####			
CHK BY KKA	DATE JANUARY 2015	####			####			
		NO	DATE	REVISION	NO	DATE	REVISION	

AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS006

AA-Standard.stb
1/5/2015
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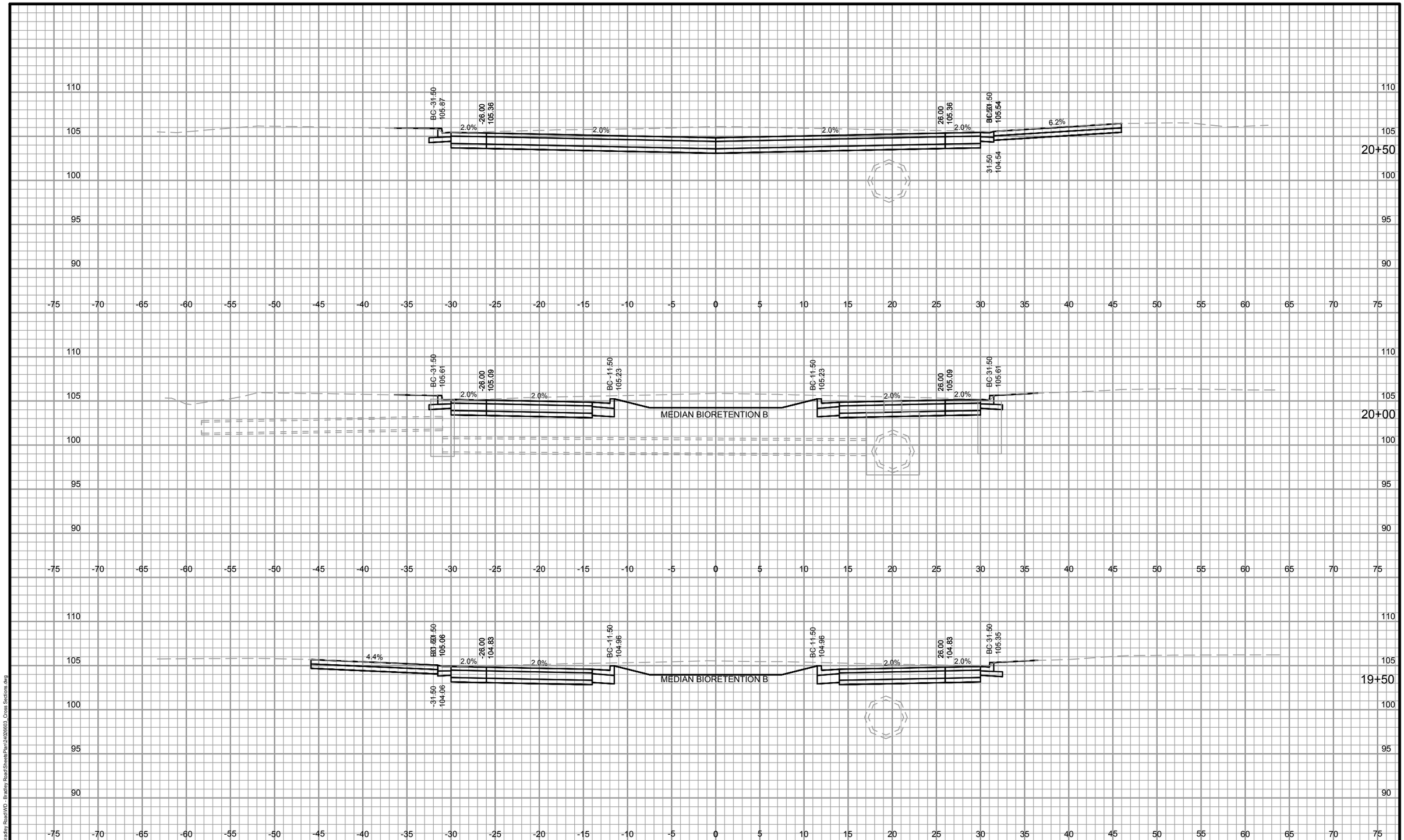

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DR BY AJS	PROJ NO 24-0266.03	####			####			AYRES ASSOCIATES WAUKESHA, WI
CHK BY KKA	DATE JANUARY 2015	####			####			ROADWAY CROSS SECTIONS
		NO	DATE	REVISION	NO	DATE	REVISION	SHEET NO XS007

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1/5/2015
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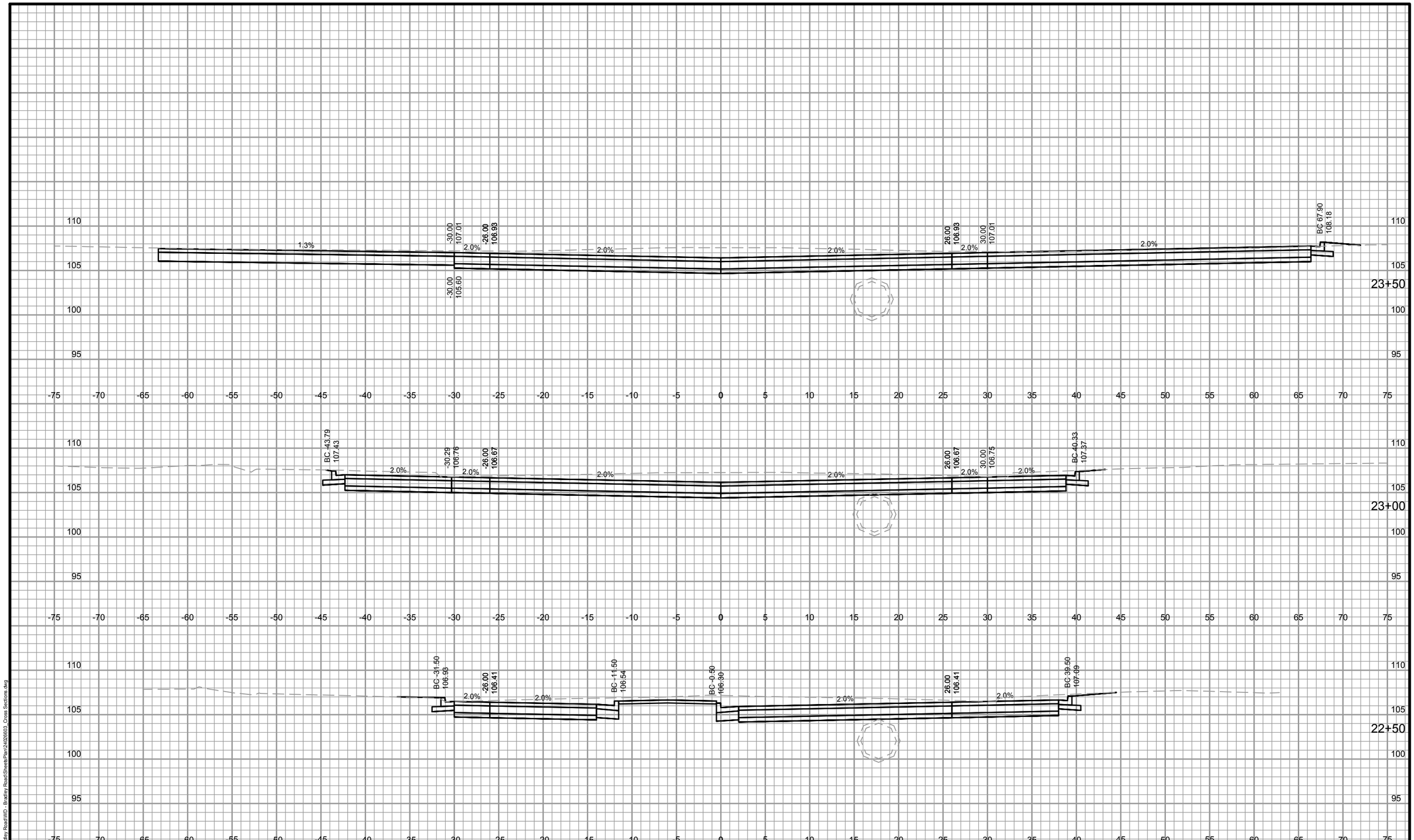

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DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS008

AA-Standard.stb
1/5/2015
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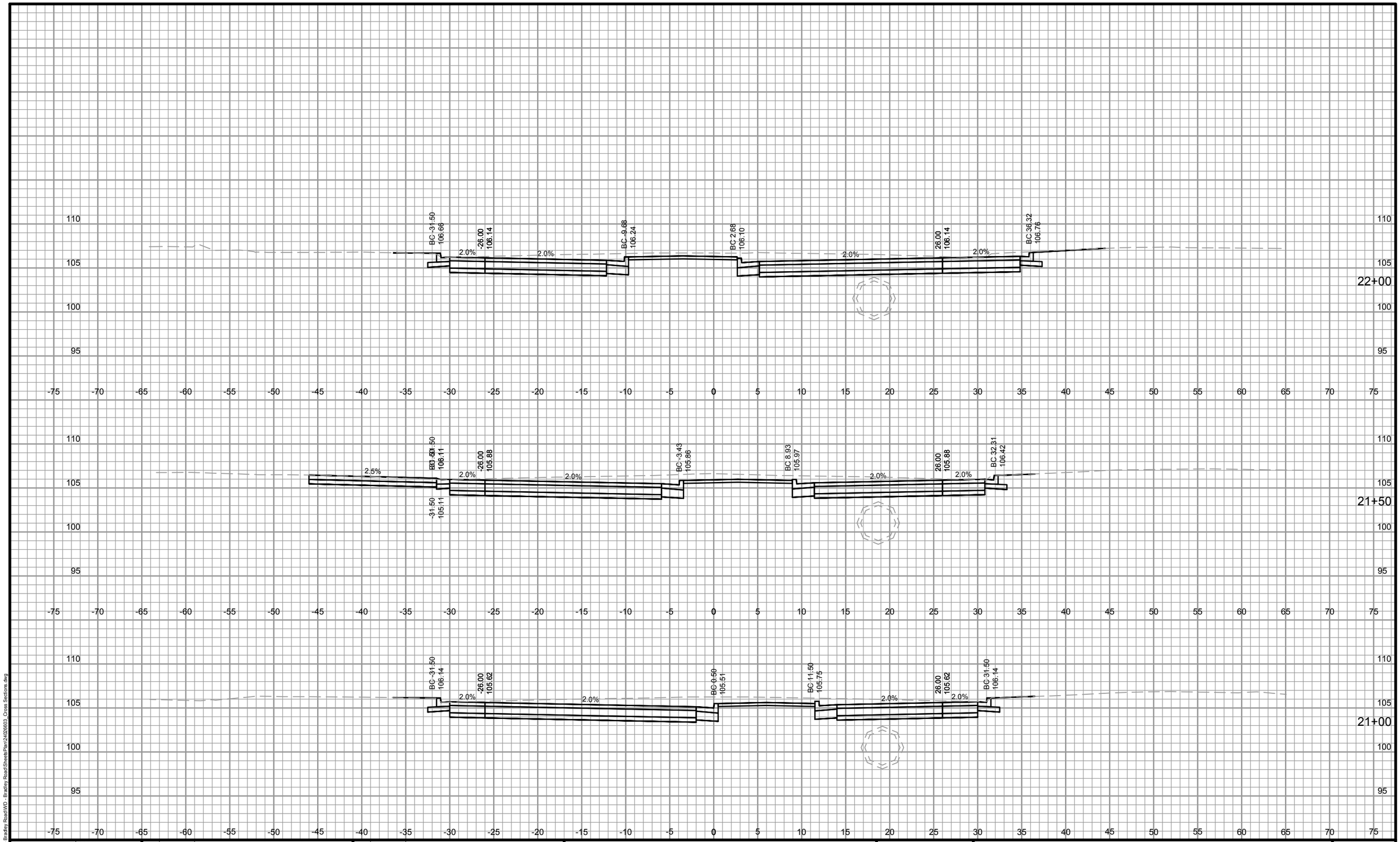

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CHK BY KKA	DATE JANUARY 2015	####			####				
		NO	DATE	REVISION	NO	DATE	REVISION		

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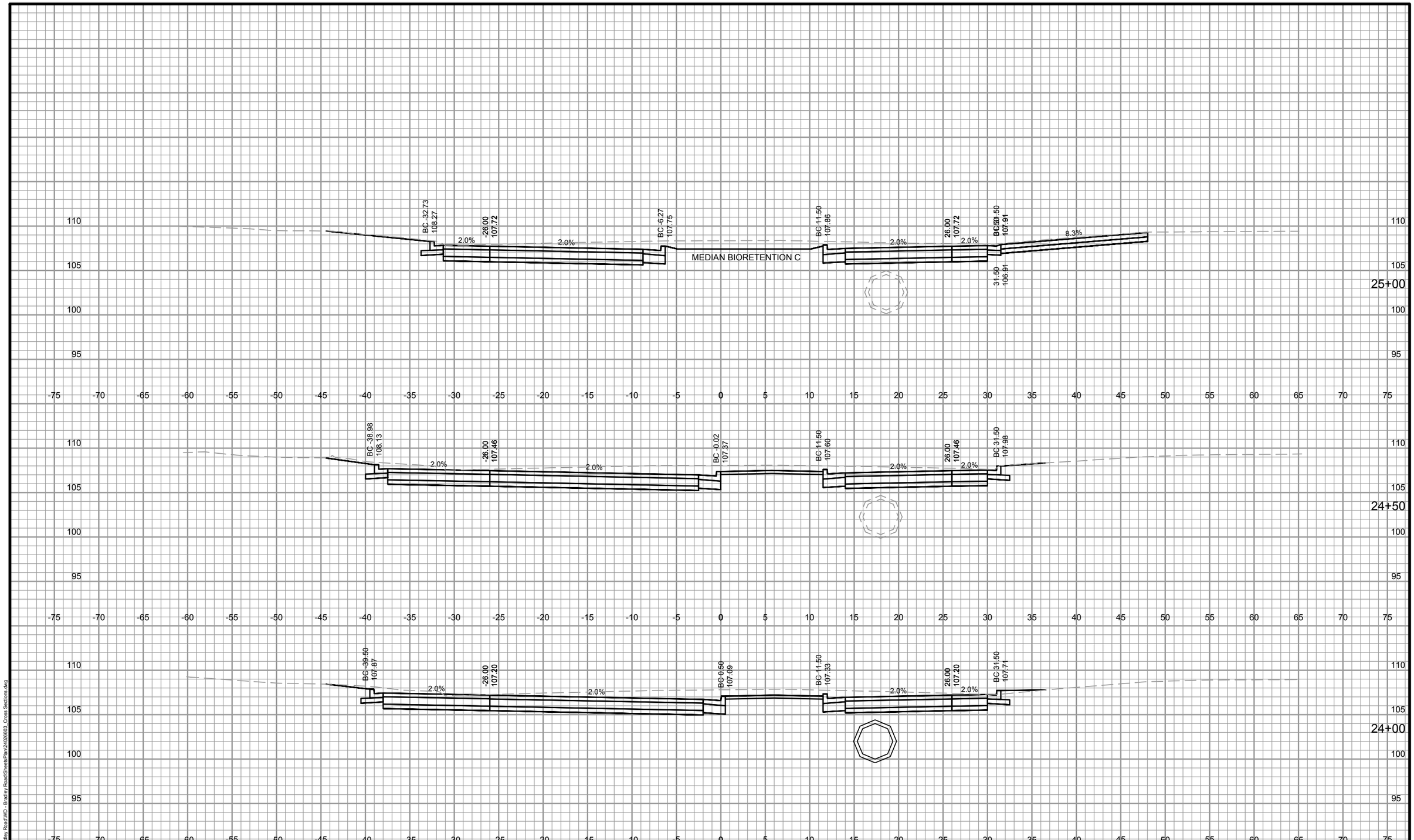

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CHK BY KKA	DATE JANUARY 2015	####			####				
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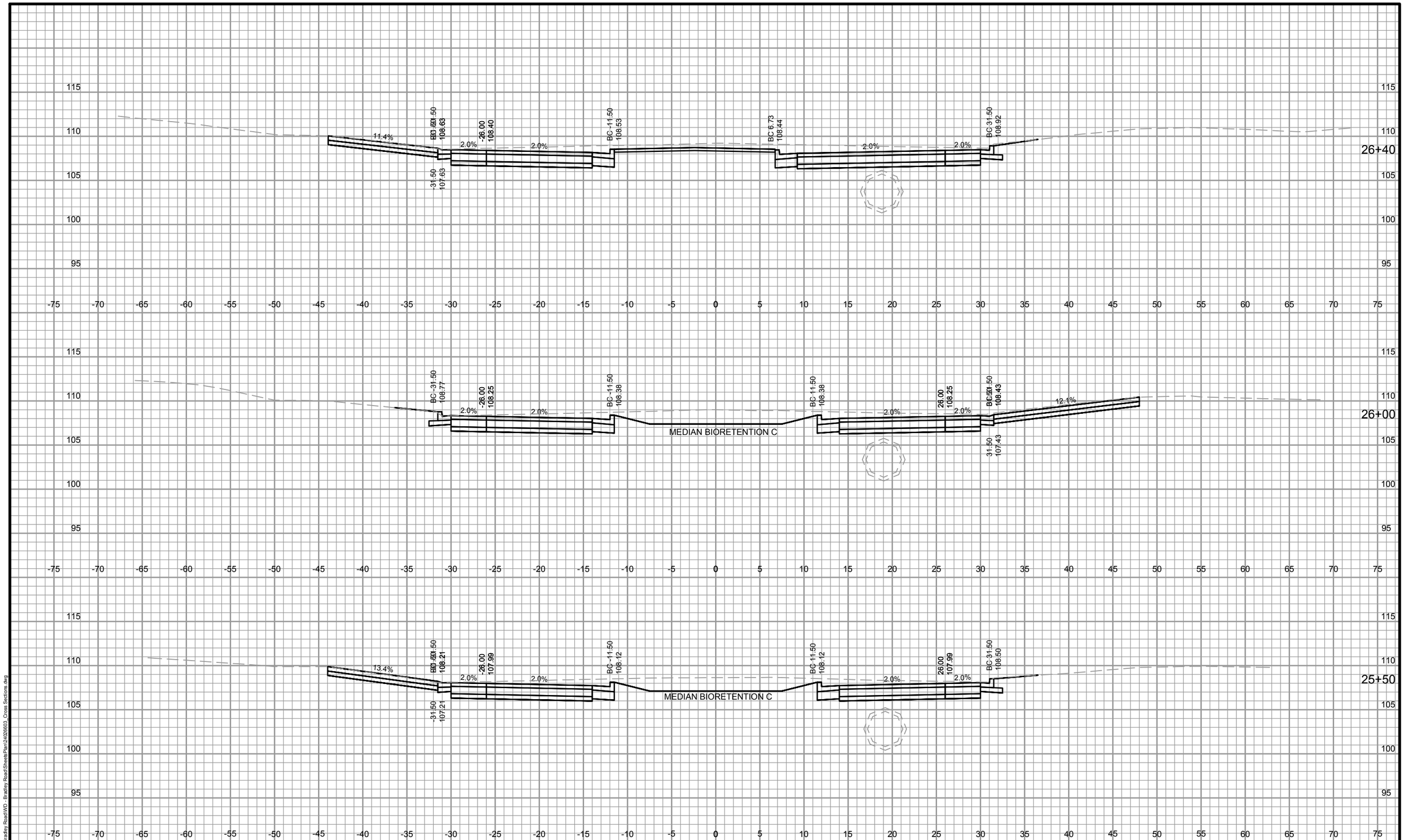

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DR BY AJS	PROJ NO 24-0266.03	####			####		
CHK BY KKA	DATE JANUARY 2015	####			####		
		NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS011

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1/5/2015
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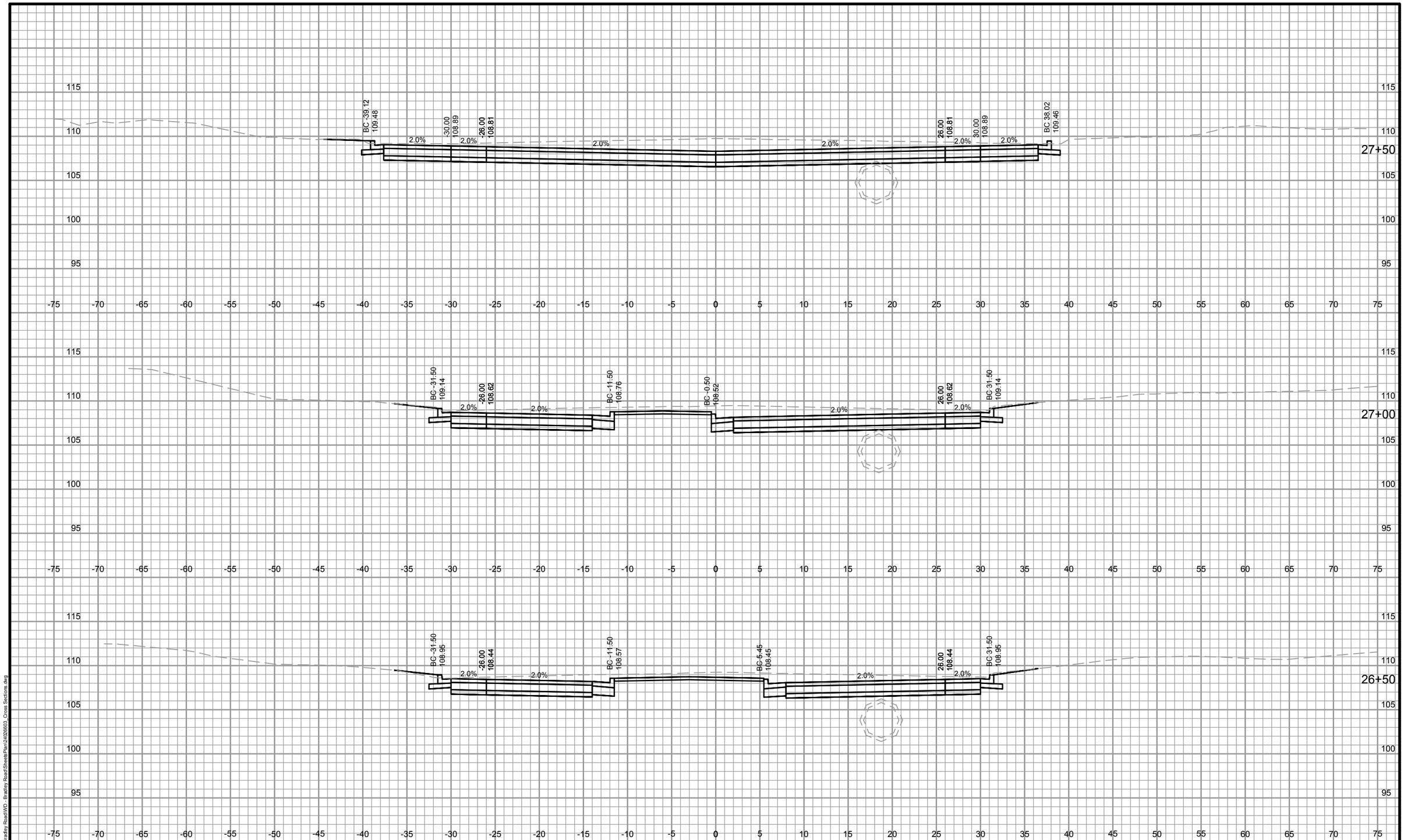

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DR BY AJS	PROJ NO 24-0266.03	####			####			
CHK BY KKA	DATE JANUARY 2015	####			####			
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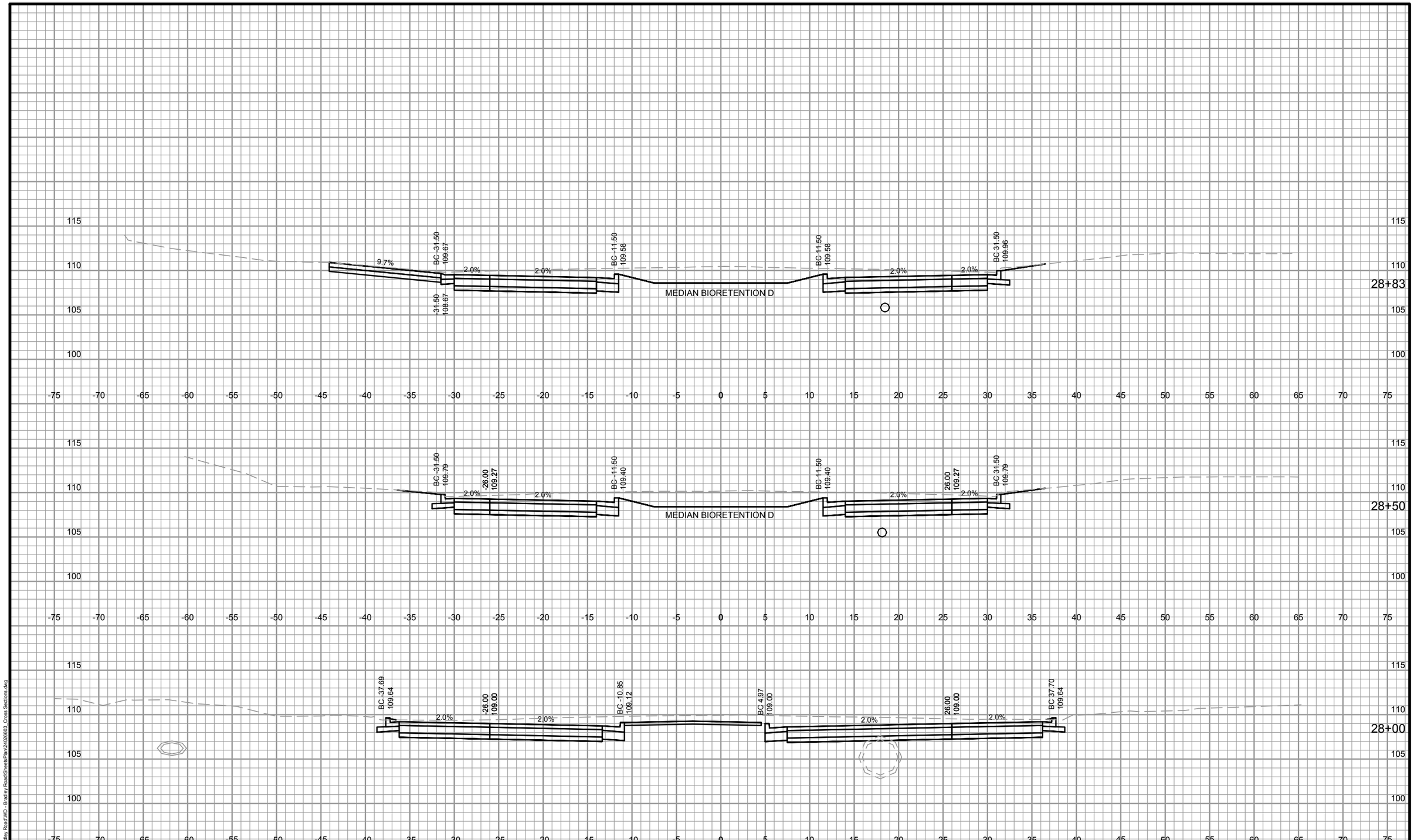
AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS012



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CHK BY KKA	DATE JANUARY 2015	####			####				
		NO	DATE	REVISION	NO	DATE	REVISION		

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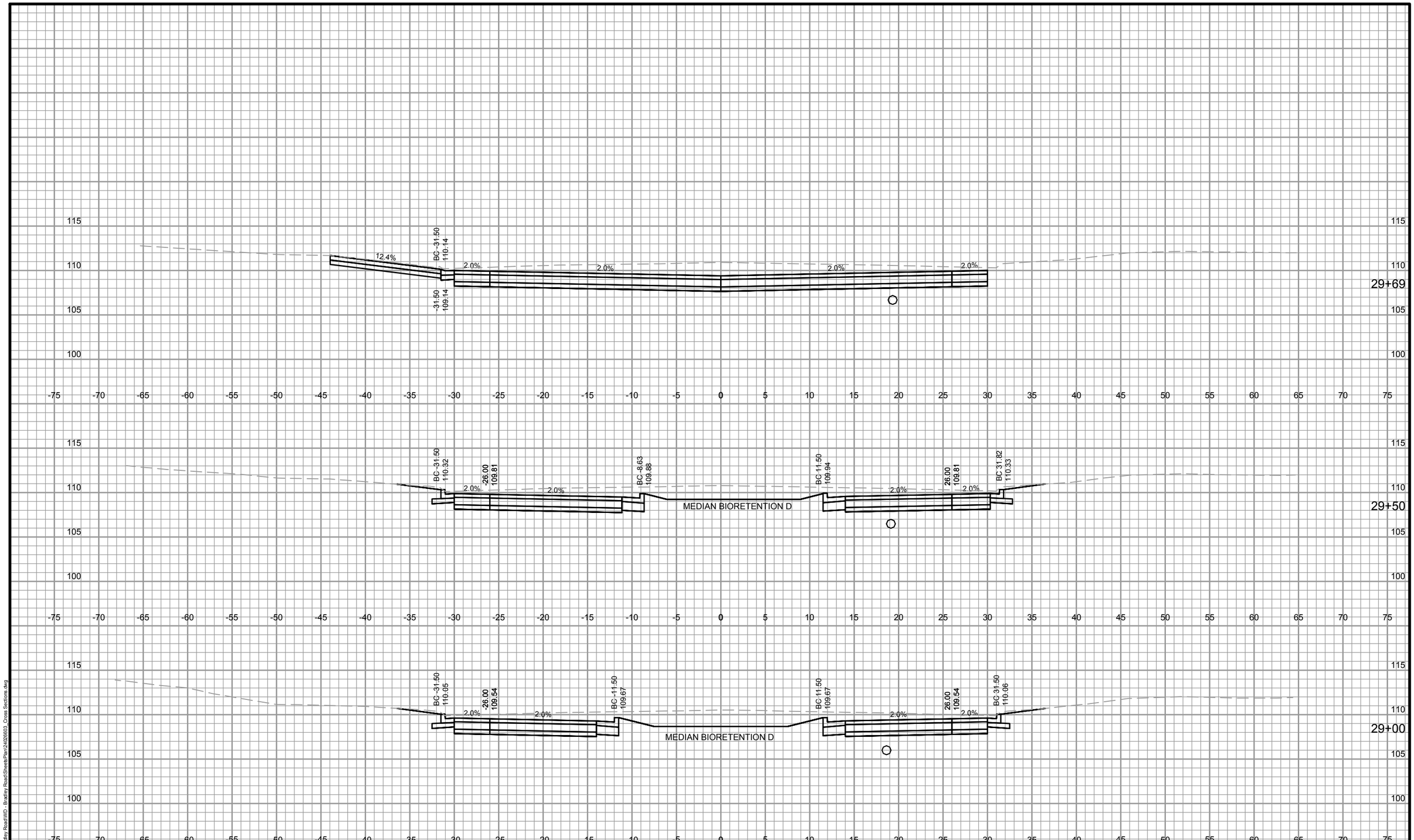

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DR BY AJS	PROJ NO 24-0266.03	####			####			AYRES ASSOCIATES WAUKESHA, WI	ROADWAY CROSS SECTIONS	XS014
CHK BY KKA	DATE JANUARY 2015	####			####				
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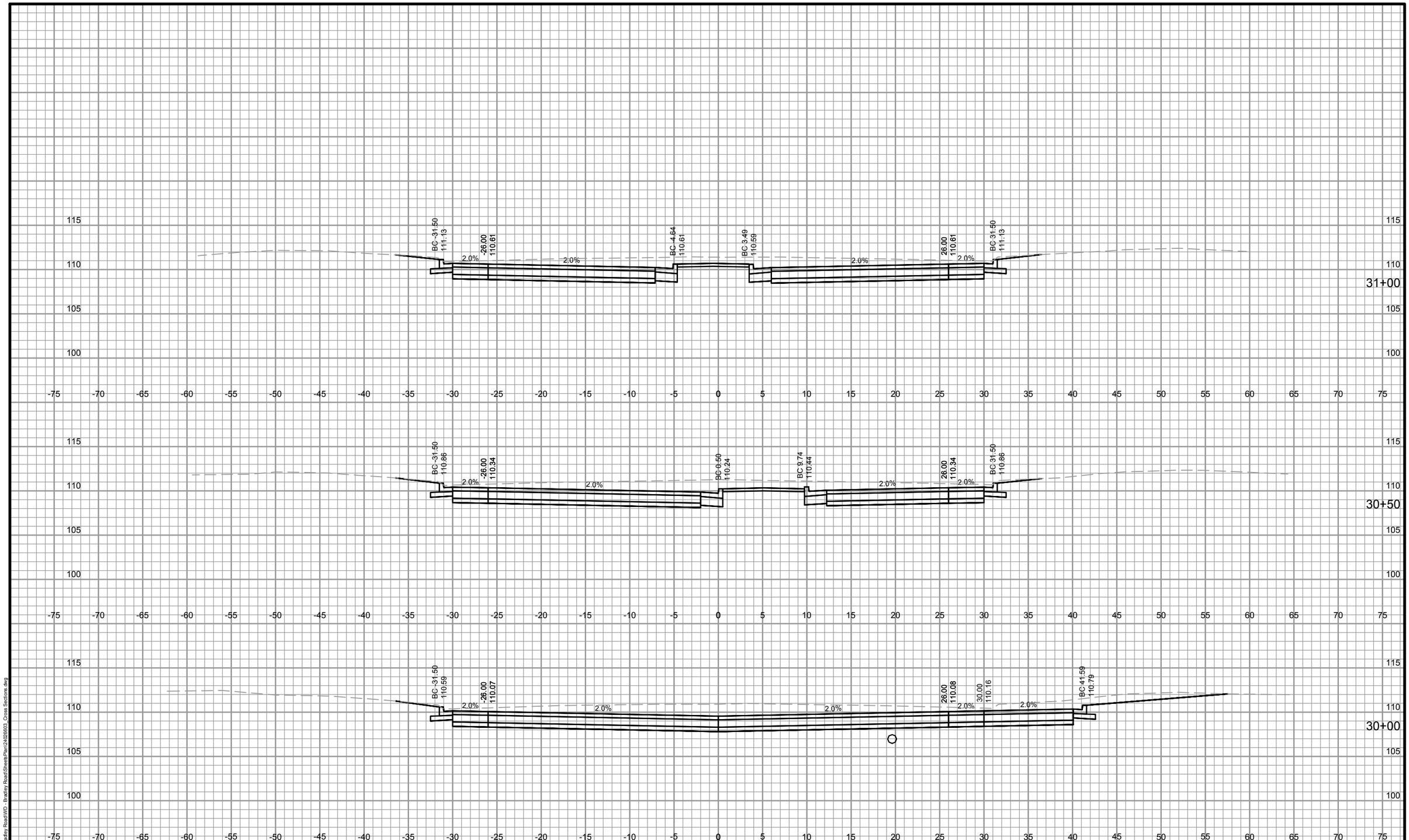

DES BY	AJS	BOOK NO	----
DR BY	AJS	PROJ NO	24-0266.03
CHK BY	KKA	DATE	JANUARY 2015

NO	DATE	REVISION
1	1/05/15	BID DOCUMENTS
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NO	DATE	REVISION
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W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS015

AA-Standard.stb
1/5/2015
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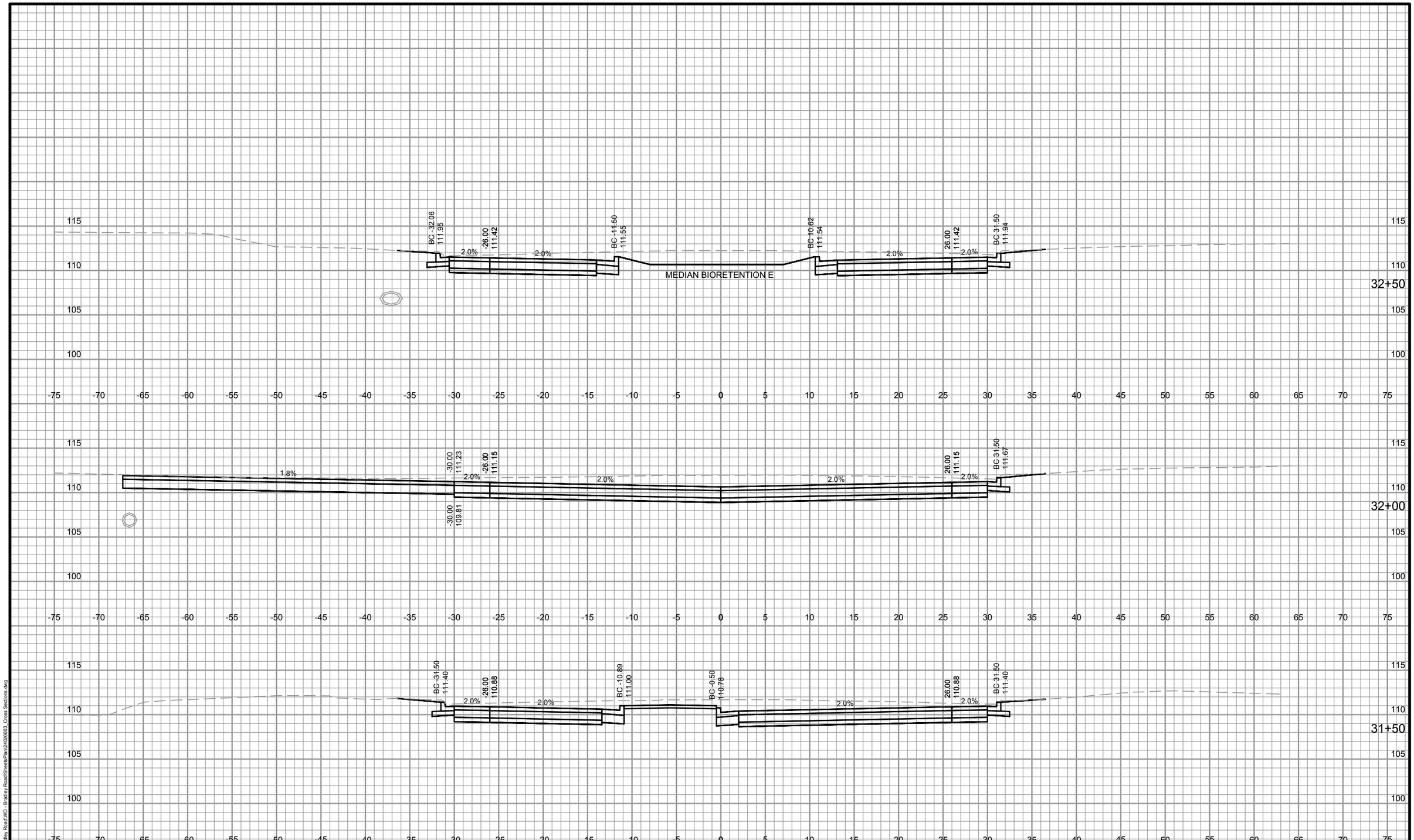

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CHK BY KKA	DATE JANUARY 2015	####			####				
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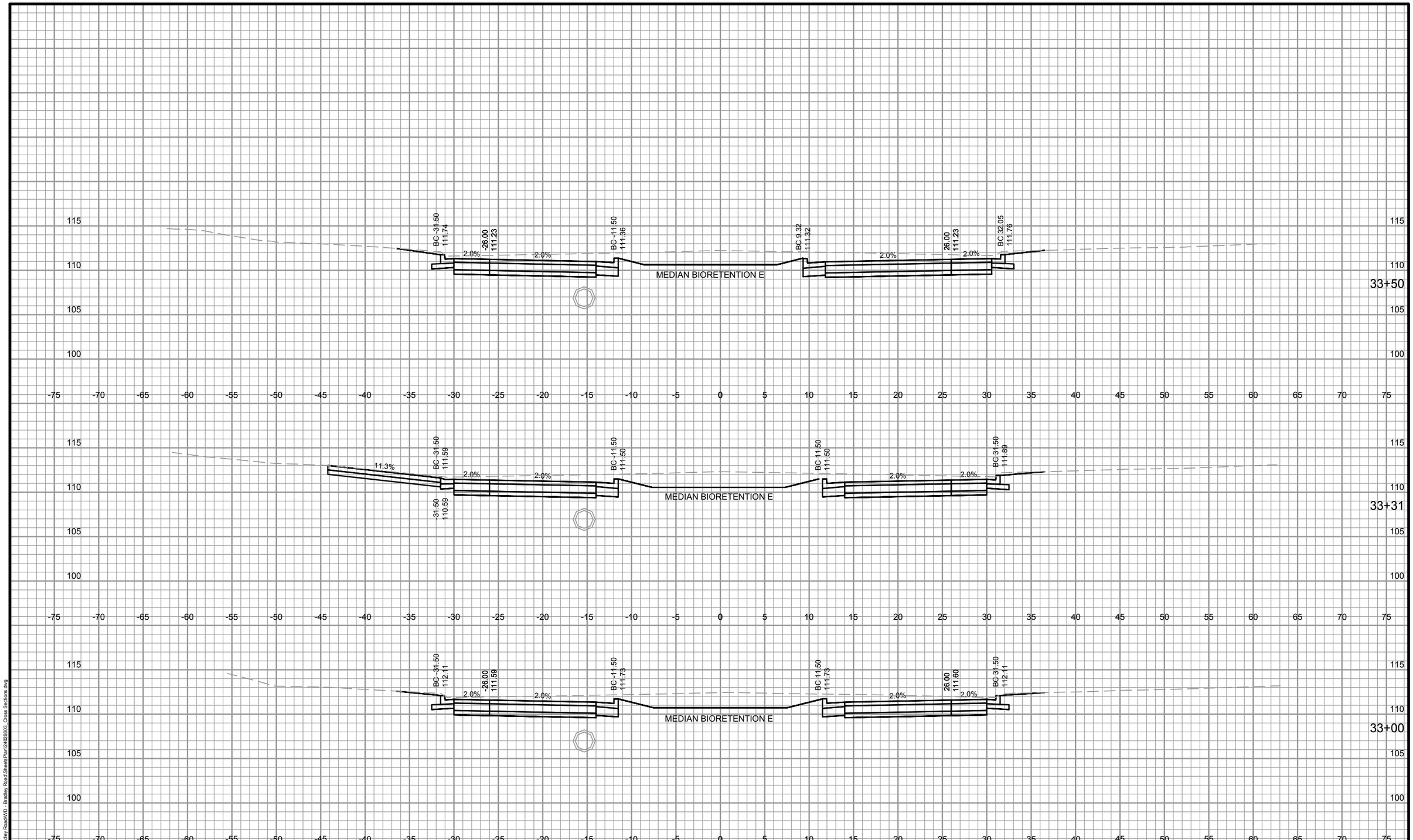

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DR BY AJS	PROJ NO 24-0266.03	####			####						
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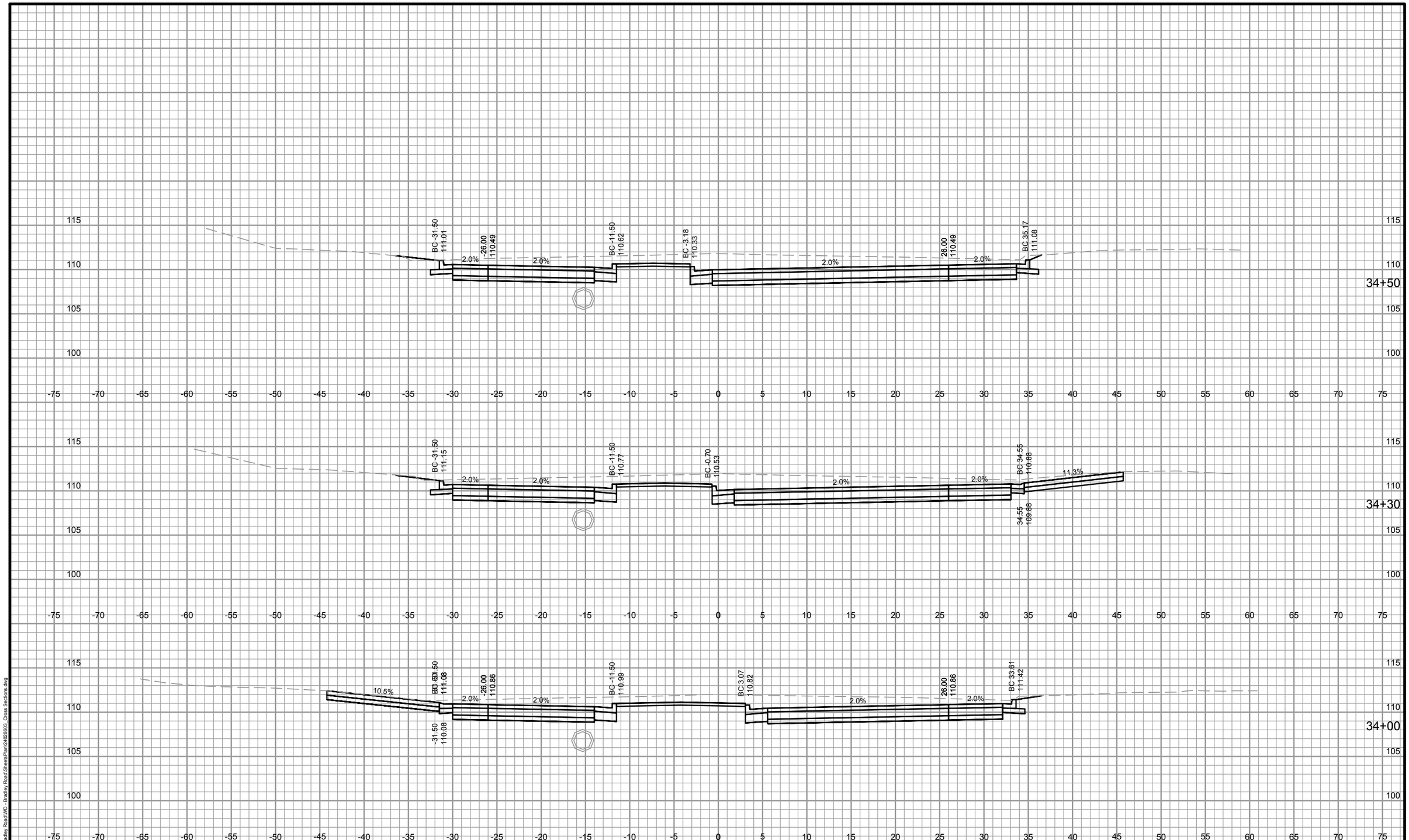

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DR BY AJS	PROJ NO 24-0266.03	####			####			AYRES ASSOCIATES WAUKESHA, WI	ROADWAY CROSS SECTIONS	XS018
CHK BY KKA	DATE JANUARY 2015	####			####				
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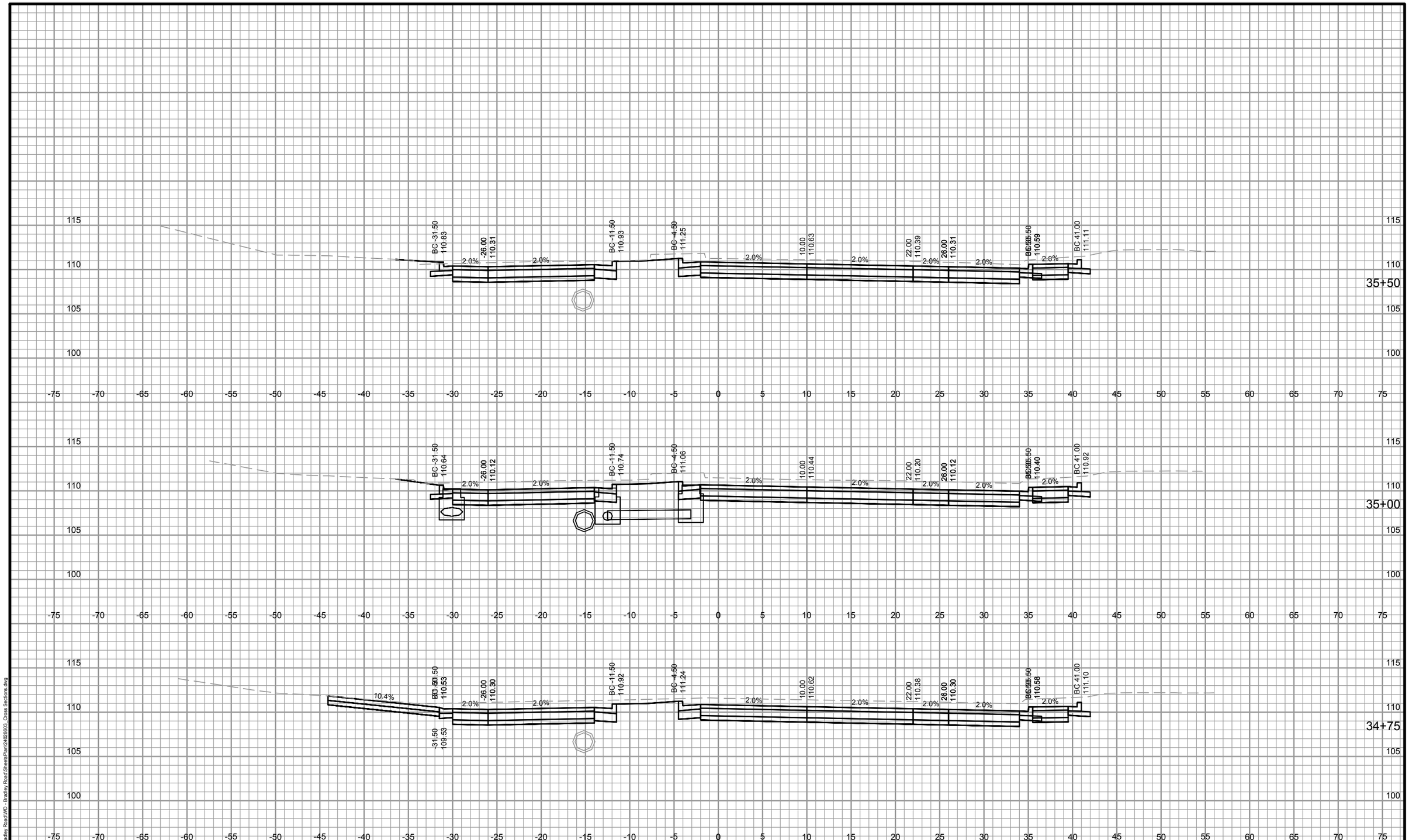

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DR BY	AJS	PROJ NO	24-0266.03	####			####		
CHK BY	KKA	DATE	JANUARY 2015	####			####		
				NO	DATE	REVISION	NO	DATE	REVISION

W. BRADLEY ROAD RECONSTRUCTION
BROWN DEER, WI

AYRES ASSOCIATES
WAUKESHA, WI

ROADWAY CROSS SECTIONS

SHEET NO
XS019