WKE

JUNE 2018

PROJECT ID: 2704-00-75
WITH: N/A

COUNTY: RACINE

ORDER OF SHEETS

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

TOTAL SHEETS = 340

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

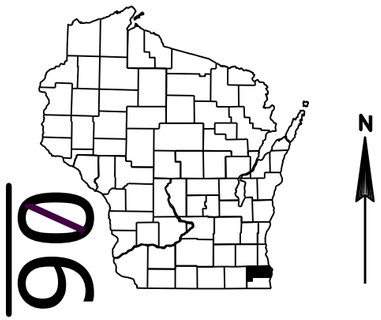
INTERNATIONAL DR, V MOUNT PLEASANT

STH 11 TO STH 20

LOCAL STREET
RACINE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2704-00-75		

STATE PROJECT NUMBER
2704-00-75



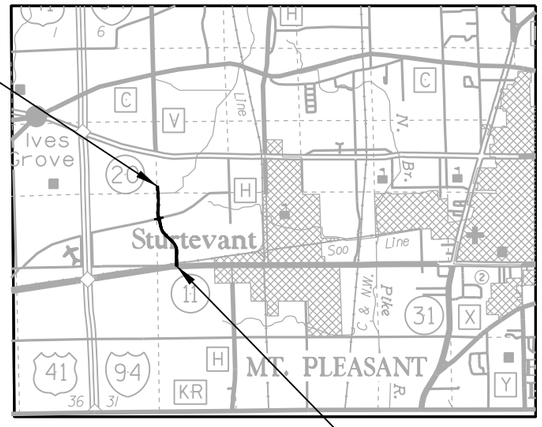
N

DESIGN DESIGNATION

A.A.D.T.	2018	=	793
A.A.D.T.	2038	=	14,140
D.H.V.		=	1,343
D.D.		=	60/40
T.		=	27%
DESIGN SPEED		=	40 mph
ESALS		=	X,XXX,XXX

END PROJECT
STA 111NDR+75.14
X = 599315.59
Y = 181384.73

R-22-E



T-3-N

BEGIN PROJECT
STA 50NDR+61.77
X = 600683.37
Y = 175692.47

STRUCTURES
C-51-84

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.158 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WisCRS), RACINE COUNTY, NAD83(1997)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD 88(1991).

ORIGINAL PLANS PREPARED BY

HNTB
11414 W. PARK PLACE
SUITE 300
MILWAUKEE, WI 53224
(414) 359-2300

WISCONSIN PROFESSIONAL ENGINEER
RYAN D. JANKE
E-42442-6
PORT WASHINGTON, WI

03/30/2018 (Date)

(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	KAPUR
Designer	HNTB
Project Manager	STEVE HOFF
Regional Examiner	WISDOT SE REGION
Regional Supervisor	MANOJOY NAG
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 03/30/2018 (Signature)

E

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CHAD.REGALIA@CITYOFRACINE.ORG

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

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CANADIAN PACIFIC RAILWAY CO.
JIM KRIEGER
CANADIAN PACIFIC PLAZA
120 SOUTH 6TH ST, SUITE 700
MINNEAPOLIS, MN 55402
PHONE: (612) 330-4555

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ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
CURB RAMP DETAILS
PLAN DETAILS
DISTURBED WETLAND PLAN
PAVING GRADES
EROSION CONTROL
STORM SEWER
IRRIGATION DETAIL
POND DETAILS
SIGNING REMOVAL PLAN
PERMANENT SIGNING PLAN
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING PLAN
TRAFFIC CONTROL / STAGE CONSTRUCTION
ALIGNMENT PLAN
CONTROL AND BENCHMARKS

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE.

THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. ANY LOCAL, MUNICIPAL OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPERATELY.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII DIMENSIONS ARE MEASURED TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

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

THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES

PROTECT INLETS WITH PROPER INLET PROTECTION AS PER DETAIL AT LOCATIONS EXHIBITING RISK OF BEING IMPACTED BY CONSTRUCTION OPERATIONS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND WIDTH OF TEMPORARY ACCESS FOR DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

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

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZER, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FIVE (5) CALENDAR DAYS, SEED AND MULCH THOSE AREAS WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL OR EQUIPMENT WITHIN WETLANDS OR PROTECTED AREAS IS NOT ALLOWED. WETLAND BOUNDARIES ARE SHOWN ON PLAN SHEETS.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS THE MINIMUM REQUIRED AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

GENERAL NOTES CONT'D

BROKEN CONCRETE CONTAINING STEEL SHALL NOT BE USED AS RIPRAP OR HEAVY RIPRAP.

REMOVING CONCRETE INCLUDES ANY MESH OR REINFORCEMENT THAT MAY BE PART OF THE PAVEMENT STRUCTURE. EXISTING PAVEMENT DEPTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS. THIS ALSO INCLUDES VERIFICATION OF INVERT ELEVATIONS AT ALL PROPOSED STORM SEWER CONNECTION POINTS TO EXISTING SYSTEMS.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN SHALL BE ADJUSTED TO FIT FIELD CONDITIONS WITH PERMISSION FROM THE ENGINEER.

CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO (2) WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

FOR SECTION CORNER REPLACEMENT CONTACT JOHN WASHBURN WITH SEWRPC AT 414-218-2866 OR JWASHBURN@SEWRPC.ORG AT LEAST TWO WEEKS BEFORE STARTING CONSTRUCTION OPERATIONS. ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABADONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL, AS DIRECTED BY THE ENGINEER.

PROVIDE TEMPORARY POSITIVE DRAINAGE ON THE NEWLY INSTALLED STORM SEWER SYSTEM UNTIL IT IS ABLE TO EFFECTIVELY DRAIN TO ITS INTENDED OR PLANNED OUTFALL. ANY WORK REQUIRED TO COMPLETE THIS DRAINAGE IS INCIDENTAL TO THE BID ITEMS FOR STORM SEWER.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

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

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS, DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

FERTILIZER WILL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ABBREVIATIONS

AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EAT	ENERGY ABSORBING TERMINAL
EBS	EXCAVATION BELOW SUBGRADE
EL	ELEVEATION
ESTR	EXISTING SIGN TO REMAIN
FE	FIELD ENTRANCE
FMS	FIXED MESSAGE SIGN
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE

ABBREVIATIONS CONT'D

NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT

TOTAL PAVEMENT LAYER THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION	TRAFFIC	ASPHALTIC BINDER AND DESIGNATION LEVEL
5.50"	2 1/4" UPPER	4	LT	58-28- S
	3 1/4" LOWER	3	LT	58-28-S

ALIGNMENT IDENTIFIERS	
NDR	INTERNATIONAL DRIVE NB
SDR	INTERNATIONAL DRIVE SB
LS	LOUIS SORENSON DRIVE

2

2

VILLAGE OF MT PLEASANT

CANADIAN PACIFIC RAILWAY

STH 11

N

WETLAND BOUNDARY (TYP.)

MATCHLINE 83NDR+00

FIELD ENTRANCE

INTERNATIONAL DRIVE

MATCH PROJECT 1320-23-70
BY OTHERS

BEGIN CONSTRUCTION
STA. 50SDR+61.77
X = 600647.37
Y = 175692.40

R/L INTERNATIONAL DRIVE SB

R/L INTERNATIONAL DRIVE NB

BEGIN PROJECT 2704-00-75
STA. 50NDR+61.77
X = 600683.37
Y = 175692.47

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\Plans\Cadd\4.2_27040005-Plan_Overview.dgn PLOT DATE : 4/28/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

2

N

VILLAGE OF MT PLEASANT

LOUIS SORENSON DRIVE

BEGIN CONSTRUCTION
STA. 25LS+50.91
X = 599089.21
Y = 179011.48

POND H

HOODS CREEK

WETLAND BOUNDARY (TYP.)

END CONSTRUCTION
STA. 111SDR+76.39
X = 599285.77
Y = 181382.82

MATCH EXISTING INTERNATIONAL DRIVE

INTERNATIONAL DRIVE

C-51-84 BOX CULVERT

R/L INTERNATIONAL DRIVE NB

R/L INTERNATIONAL DRIVE SB

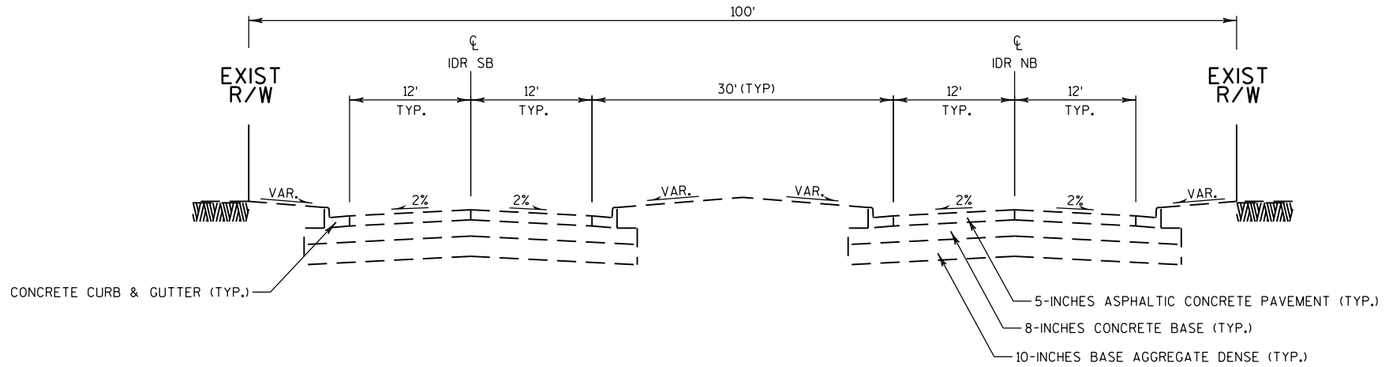
MATCHLINE 83NDR+00

END PROJECT 2704-00-75
STA. 111NDR+75.14
X = 599315.59
Y = 181384.73

END CONSTRUCTION
STA. 31LS+85.25
X = 599708.66
Y = 179147.69

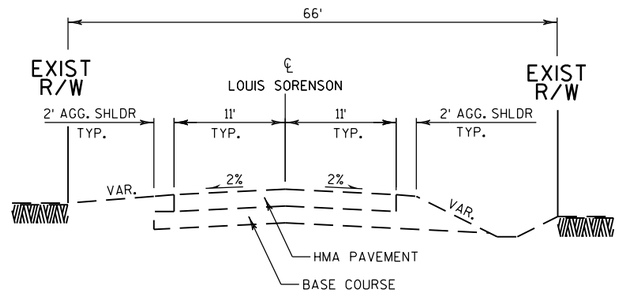
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 5	E

2



TYPICAL EXISTING SECTION
INTERNATIONAL DRIVE

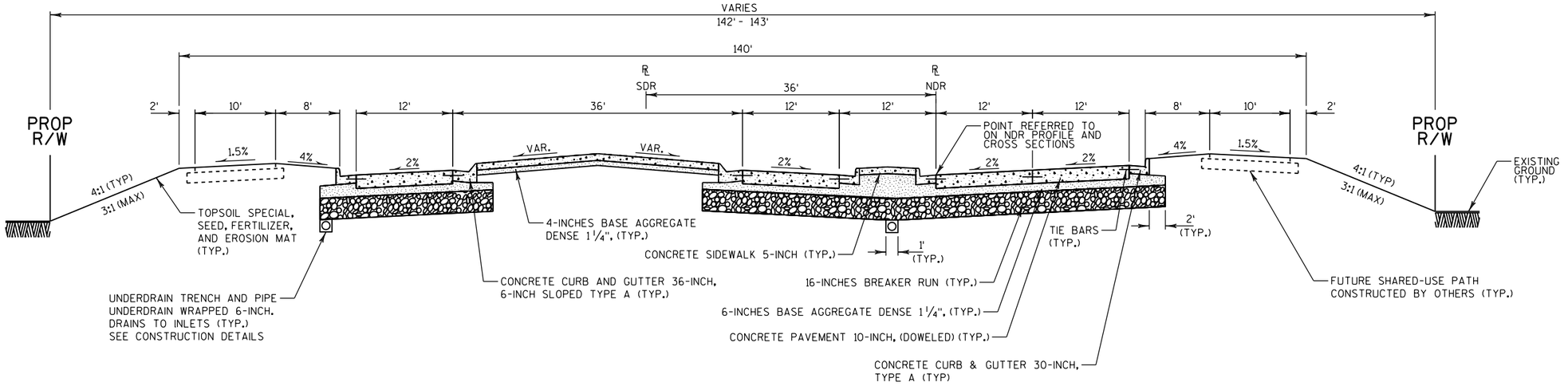
STA 111NDR+75



TYPICAL EXISTING SECTION
LOUIS SORENSON DRIVE

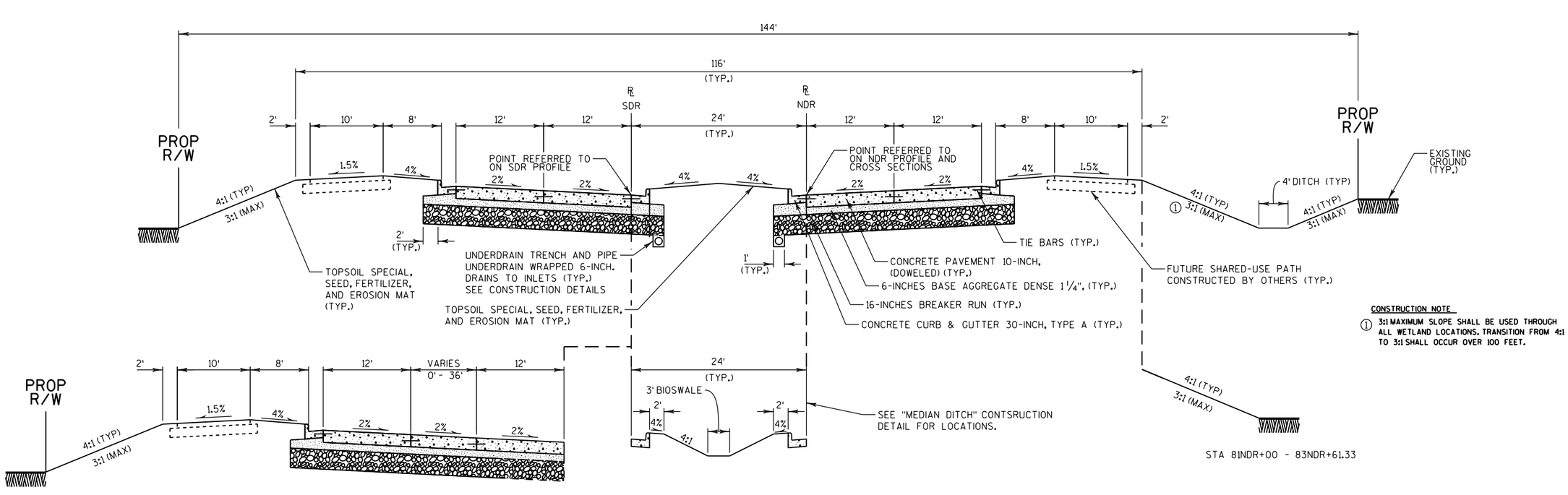
STA 25LS+51 - 31LS+85

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SHEET 6	E



TYPICAL FINISHED SECTION
INTERNATIONAL DRIVE

STA 50NDR+61.77 - 52NDR+77.47



CONSTRUCTION NOTE

① 3:1 MAXIMUM SLOPE SHALL BE USED THROUGH ALL WETLAND LOCATIONS. TRANSITION FROM 4:1 TO 3:1 SHALL OCCUR OVER 100 FEET.

STA 52NDR+77.47 - 55NDR+77.85

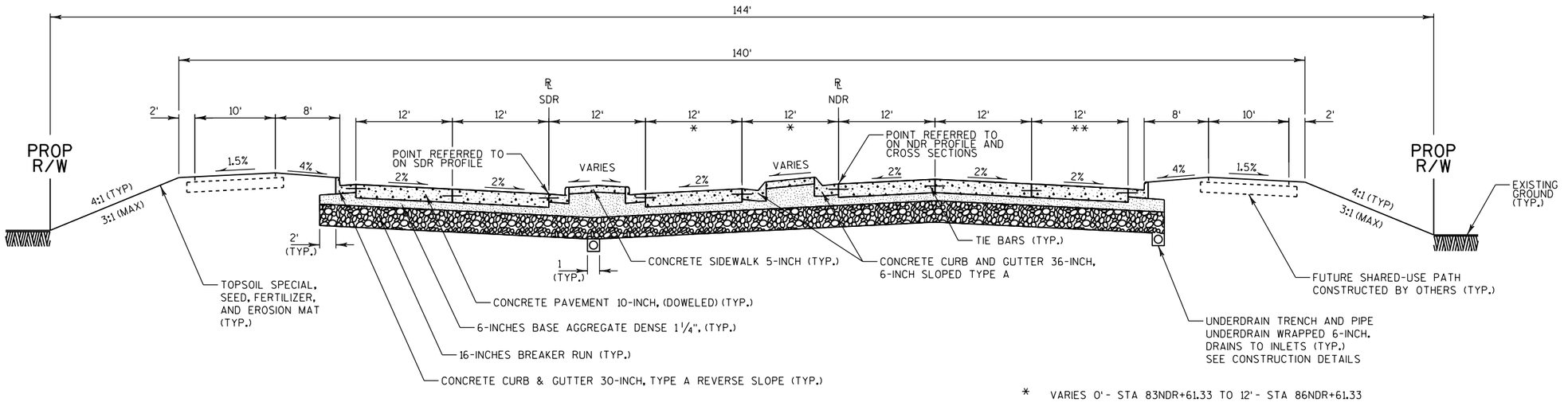
STA 81NDR+00 - 83NDR+61.33

TYPICAL FINISHED SECTION
INTERNATIONAL DRIVE

STA 52NDR+77.47 - 83NDR+61.33

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TYPICAL FINISHED SECTIONS	SHEET 7	E

2

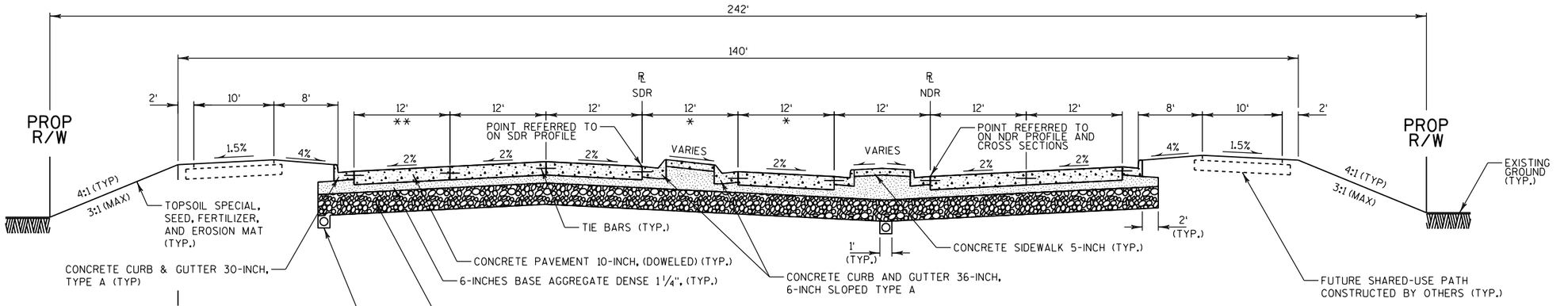


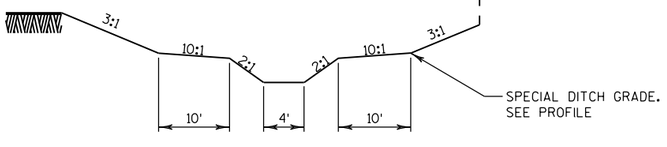
* VARIES 0' - STA 83NDR+61.33 TO 12' - STA 86NDR+61.33

** 0' - STA 83NDR+61.33 TO STA 85NDR+11.33, VARIES 0' - STA 85NDR+11.33 TO 12' - STA 86NDR+61.33

TYPICAL FINISHED SECTION
INTERNATIONAL DRIVE

STA 83NDR+61.33 - 88NDR+61.33





TYPICAL FINISHED SECTION
INTERNATIONAL DRIVE

STA 88NDR+61.33 - 93NDR+65.81

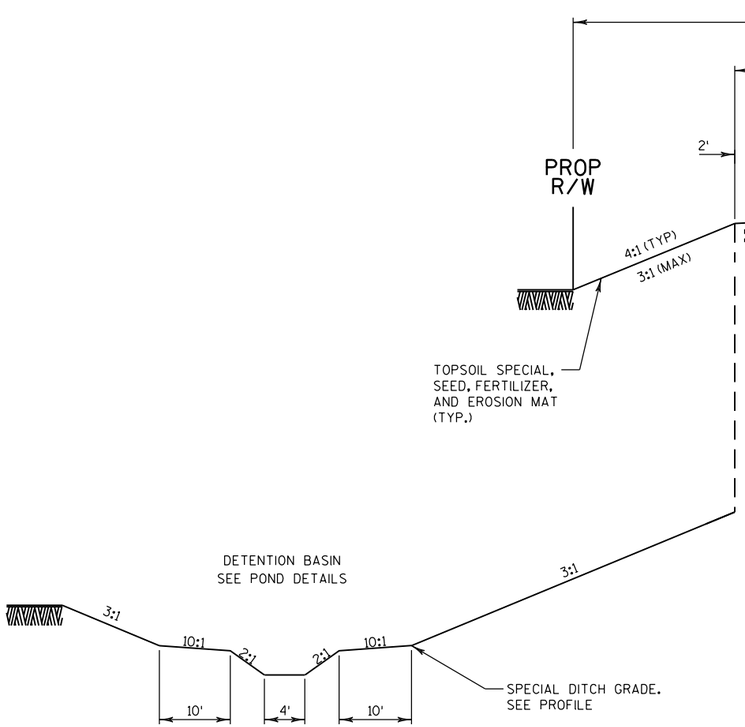
STA 89NDR+30 - 93NDR+65.81

* VARIES 12' - STA 90NDR+75.33 TO 0' - STA 93NDR+65.81

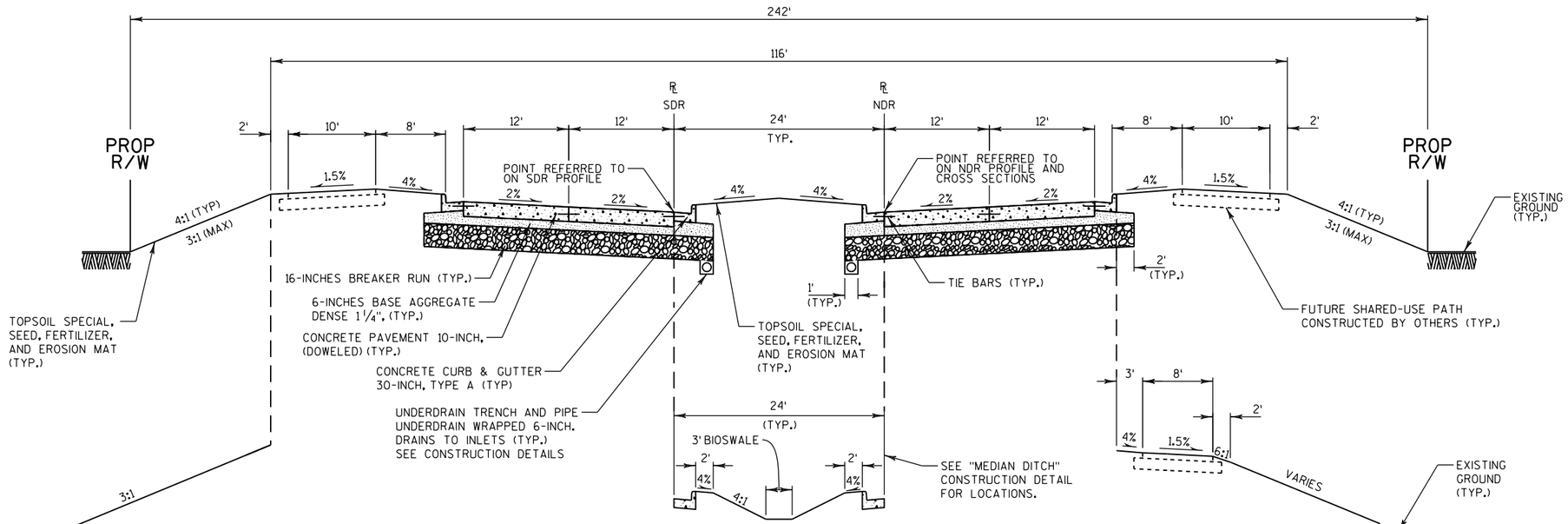
** VARIES 12' - STA 90NDR+62.15 TO 0' - STA 92NDR+03.68, 0' - STA 92NDR+03.68 TO STA 93NDR+65.81

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TYPICAL FINISHED SECTIONS	SHEET 8	E

2

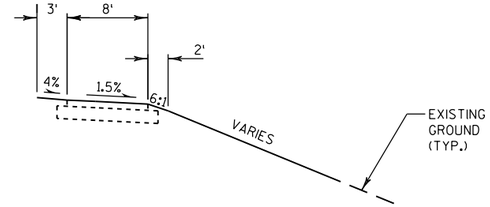


STA 93NDR+65.81 - 99NDR+36



TYPICAL FINISHED SECTION
INTERNATIONAL DRIVE

STA 93NDR+65.81 - 111NDR+75.14



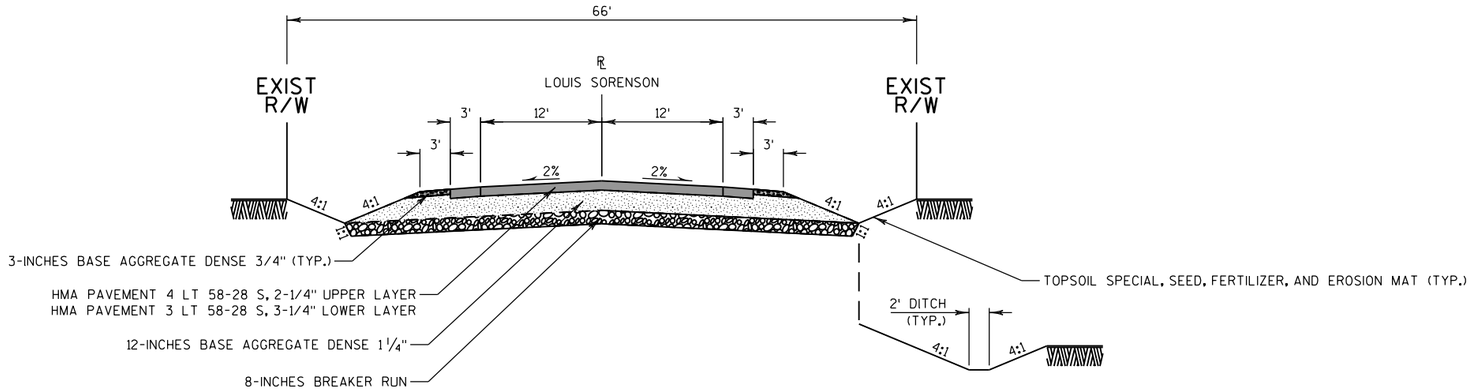
STA 107NDR+90 - 108NDR+30

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TYPICAL FINISHED SECTIONS	SHEET 9	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\020401_ts.dgn PLOT DATE: 8/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 15:1

WISDOT/CADDS SHEET 42

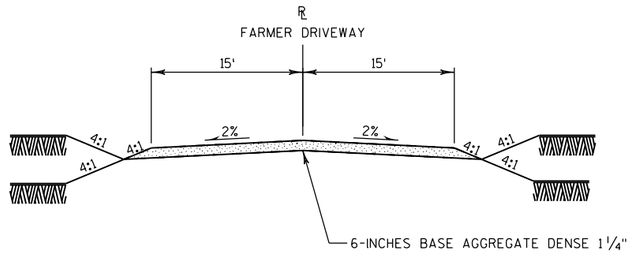
2



STA. 27LS+69.0 - STA. 29LS+70.0

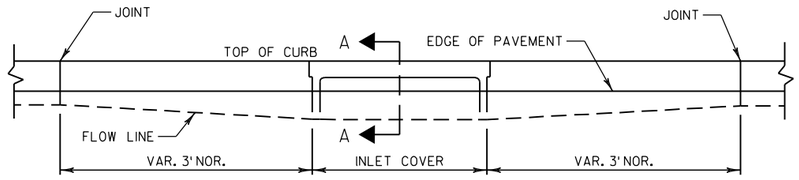
TYPICAL FINISHED SECTION
LOUIS SORENSON DRIVE

STA 25LS+50.91 - 31LS+85.25

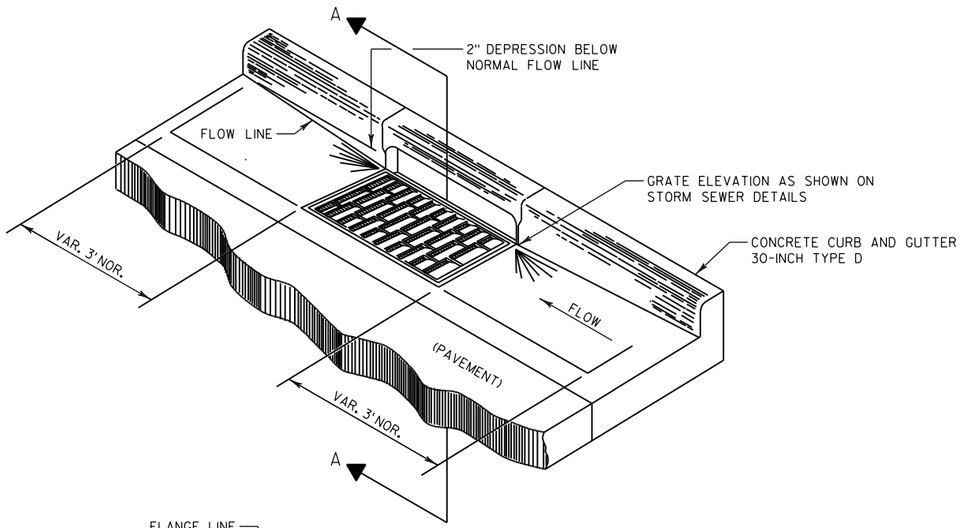


TYPICAL FINISHED SECTION
FARMER DRIVEWAY

STA 10FDW+08.28 - 10FDW+85.00
STA 12FDW+07.00 - 12FDW+67.00



ELEVATION



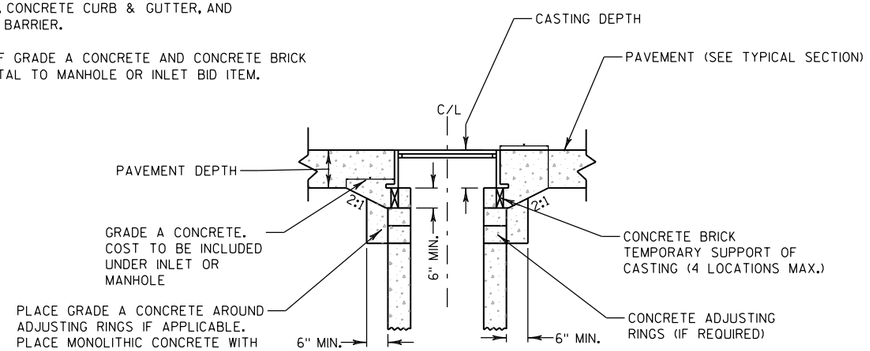
SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

NOTE

1) MONOLITHIC CONCRETE SHIMMING TO BE PROVIDED FOR ALL PROPOSED COVERS LOCATED IN CONCRETE PAVEMENT, CONCRETE CURB & GUTTER, AND CONCRETE BARRIER.

2) COST OF GRADE A CONCRETE AND CONCRETE BRICK IS INCIDENTAL TO MANHOLE OR INLET BID ITEM.

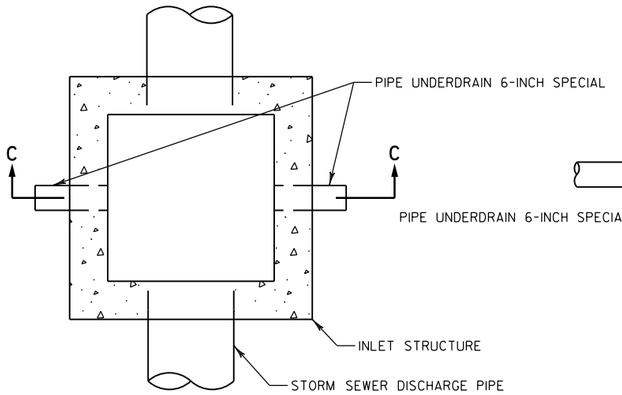


MONOLITHIC CONCRETE SHIMMING DETAIL

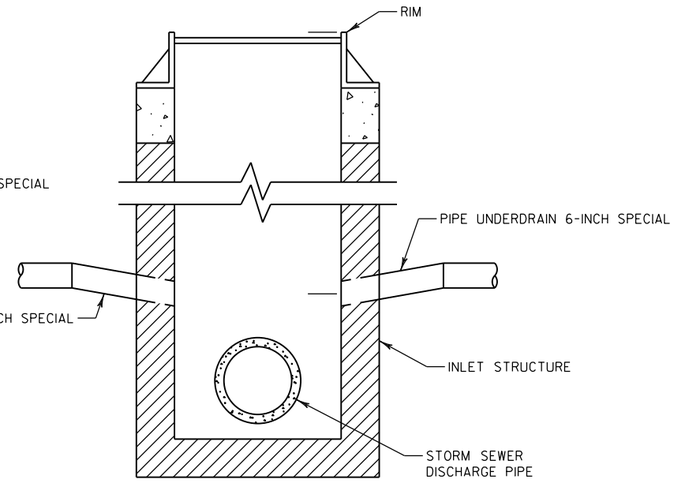
2

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN 6-INCH SPECIAL.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 49" BELOW THE RIM ELEVATION.
3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.
3. CORE CONNECTION FOR THE INLET DRAIN IS INCIDENTAL TO PIPE UNDERDRAIN 6-INCH SPECIAL.

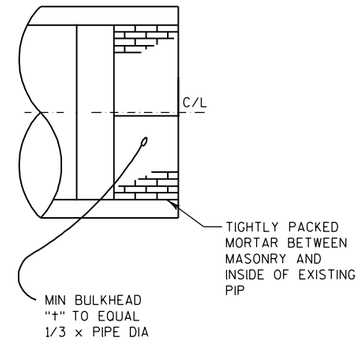


PLAN VIEW



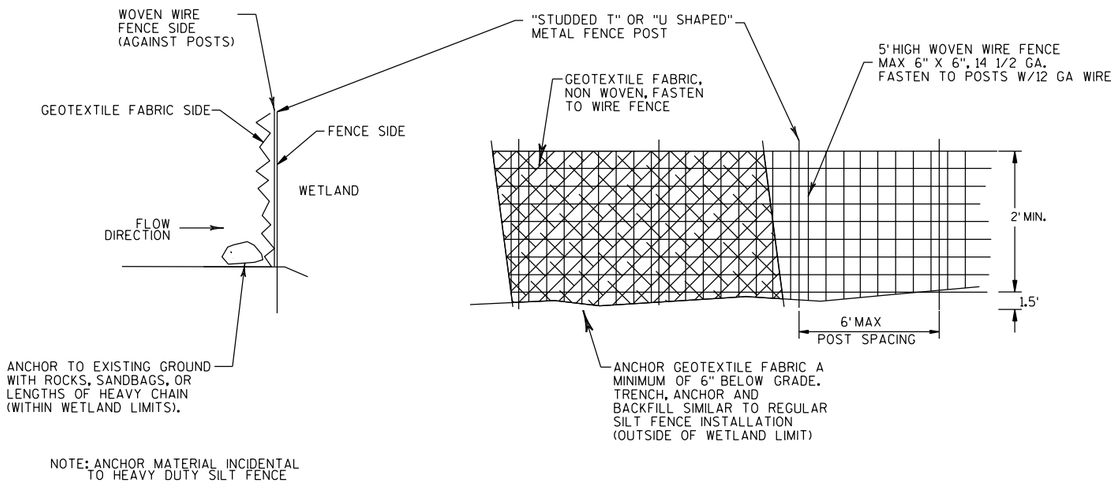
SECTION C-C

UNDERDRAIN OUTFALL AT INLET



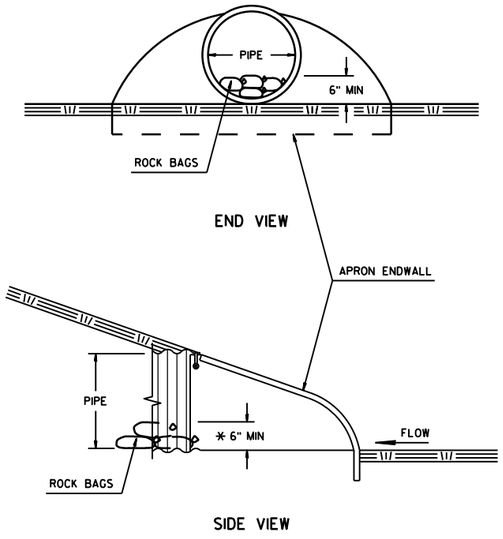
TEMPORARY BULKHEAD PIPE MASONRY

ITEM TO BE PAID FOR UNDER ITEM "SEALING PIPES"
FOR LOCATIONS SEE MISECELLANEOUS QUANTITIES SHEETS



NOTE: ANCHOR MATERIAL INCIDENTAL TO HEAVY DUTY SILT FENCE

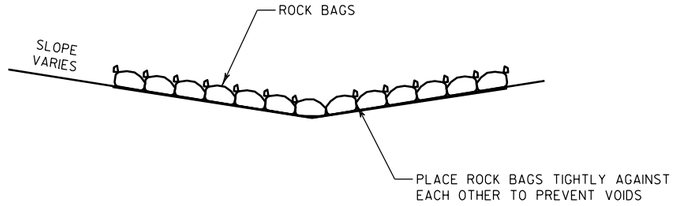
HEAVY DUTY SILT FENCE



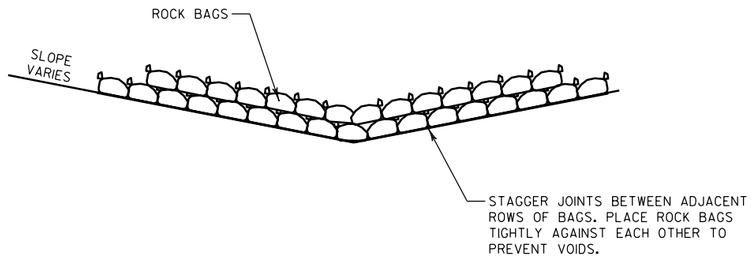
CULVERT PIPE ENDS

ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
66"	14
72"	16
13"X17"	2
19"X30"	5
24"X38"	7
29"X45"	10
34"X53"	10
38"X60"	13
48"X76"	18

ROCK BAGS



SIDE VIEW (SINGLE LAYER)



* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

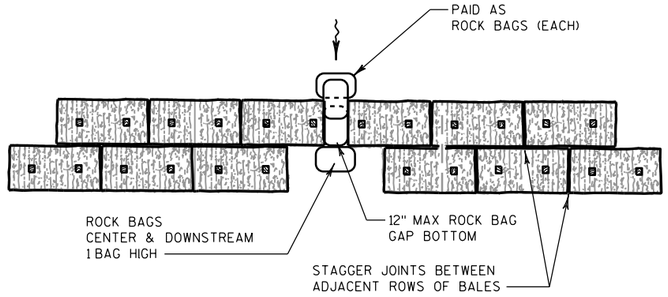
TEMPORARY DITCH CHECK, ROCK BAGS, SINGLE LAYER AND DOUBLE LAYER

NOTE

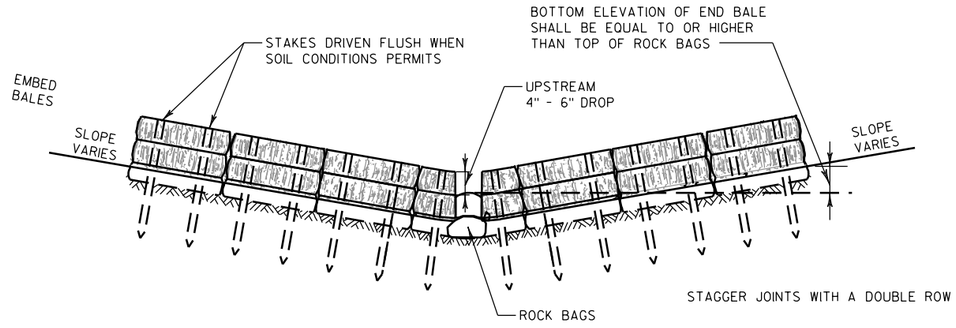
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

THIS INSTALLATION METHOD SHALL ONLY BE USED AT THE DIRECTION OF THE ENGINEER.

2



PLAN VIEW



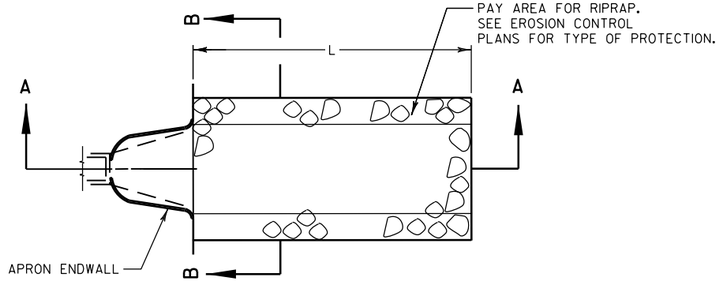
FRONT VIEW

NOTE

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.

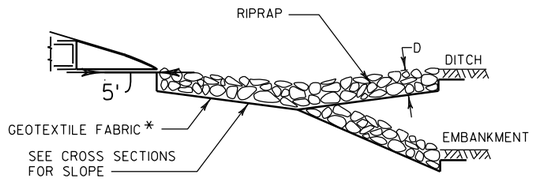
THIS INSTALLATION METHOD SHALL ONLY BE USED AT THE DIRECTION OF THE ENGINEER.

TEMPORARY DITCH CHECK, MODIFIED



PLAN VIEW

L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

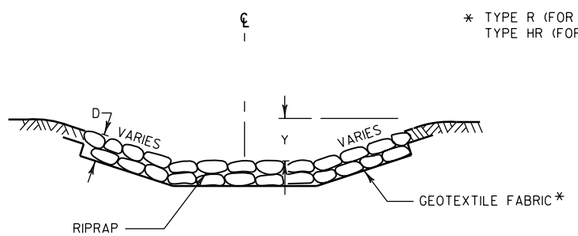


SECTION A-A

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

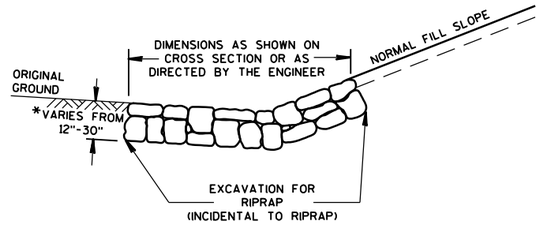


SECTION B-B

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

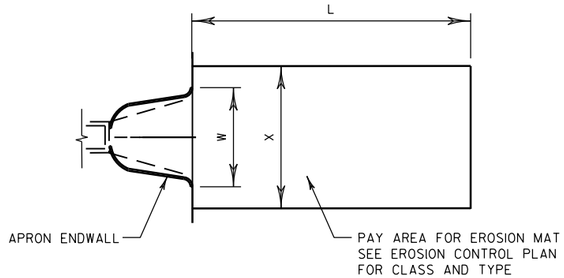
SEE EROSION CONTROL PLAN FOR LOCATIONS



DETAIL FOR RIPRAP IN DITCHES

* PROVIDE DEPTHS AND VARIOUS RIPRAP SIZES IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS.

EROSION MAT DETAIL FOR DITCHES



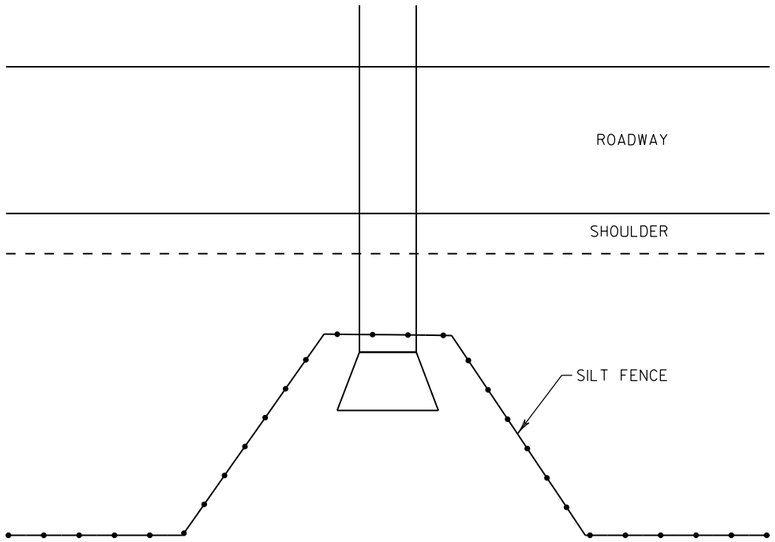
W = WIDTH OF APRON ENDWALL

L = 3 x W (NORMAL) OR 10' (MINIMUM) OR
AS INDICATED IN THE PLANS OR
AS DIRECTED BY THE ENGINEER.

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

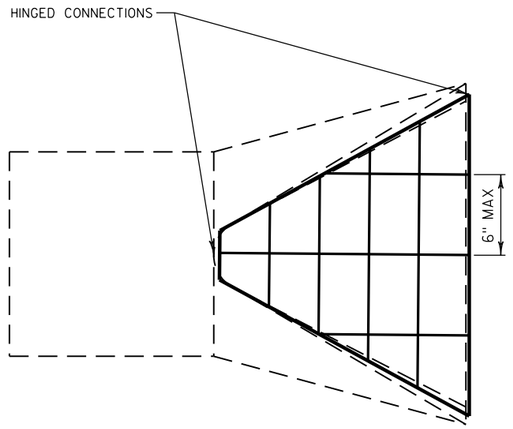
EROSION MAT TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN FOR LOCATIONS

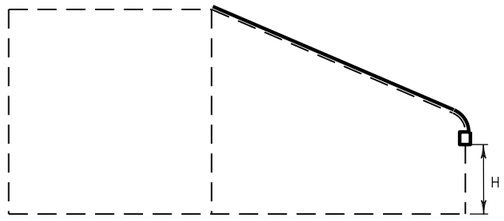


NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

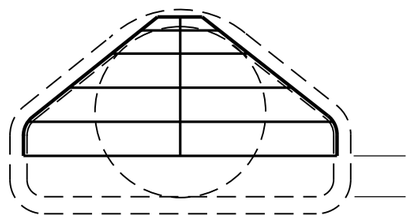
TYPICAL SILT FENCE DETAIL AT PIPE INLET



PLAN VIEW



SIDE VIEW



END VIEW

PIPE GRATE

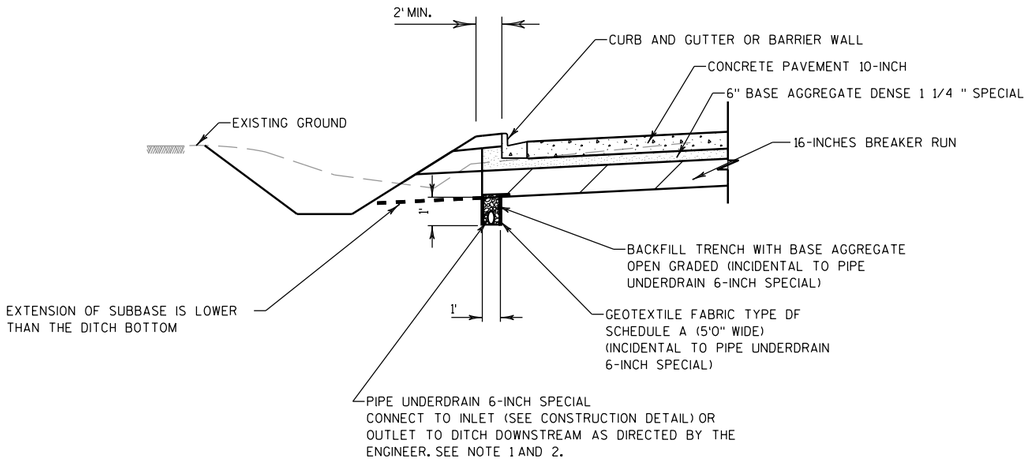
GRATE CLEARANCE HEIGHT

ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" - 29"	4"
15"	3"	36" - 44"	5"
18" - 24"	4"	51" - 65"	6"
27" - 36"	5"	73" - 85"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

GRATE BAR SIZES
(STANDARD DESIGN)

	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"



PIPE UNDERDRAIN IN URBAN SECTIONS

STRUCTURE NUMBER	STATION	OFFSET
91A	91NDR+15.99	25.50' RT
91B	91NDR+15.74	1.50' LT
92C	91NDR+40.06	14.89' LT
93D	91SDR+10.64	30.24' LT
110D	109SDR+96.95	25.50' LT
110G	109SDR+96.79	1.50' RT
110F	109NDR+95.85	13.20' LT
110H	109NDR+96.06	1.50' LT
110K	109NDR+95.84	25.50' RT

NOTES:

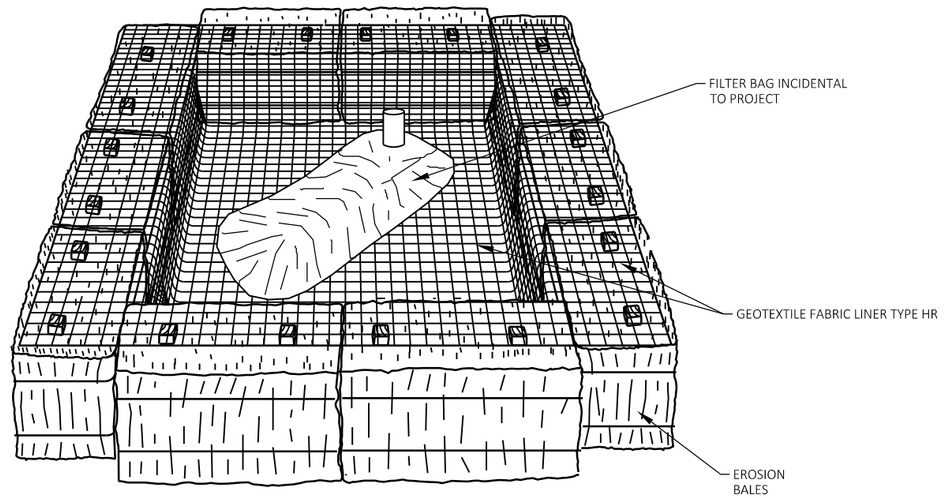
1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.

2



(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}}$ = 533 S.F.

USE A 20 FT. X 27 FT. BASIN

NOTES

1) CONTRACTOR SHALL PUMP FROM DEWATERING OPERATIONS INTO TEMPORARY SETTLING BASINS PRIOR TO DISCHARGING INTO ROADSIDE DITCHES.

2) BASIN SHALL BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS SHALL BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.

3) TEMPORARY SETTLING BASIN SHALL BE PAID FOR AS EROSION BALES AND GEOTEXTILE FABRIC HR.

TEMPORARY SETTLING BASIN

UNDISTRIBUTED

2

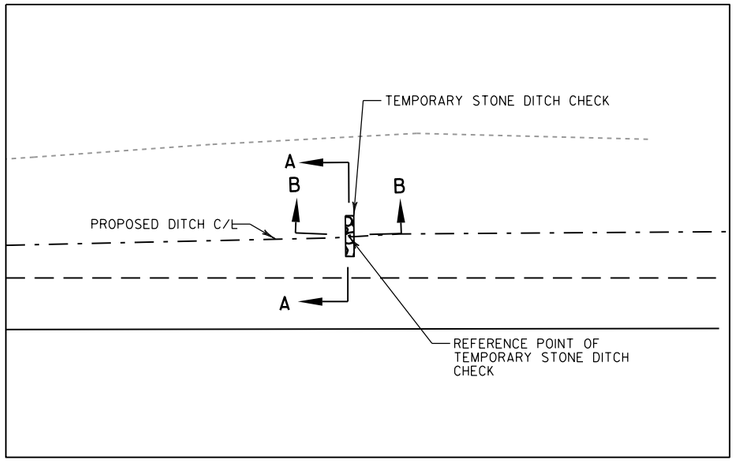
GENERAL NOTES

STONE DITCH CHECKS MUST BE INSTALLED WITH THE CENTER LOWER THAN THE SIDES FORMING A WEIR (SEE SECTION A-A).

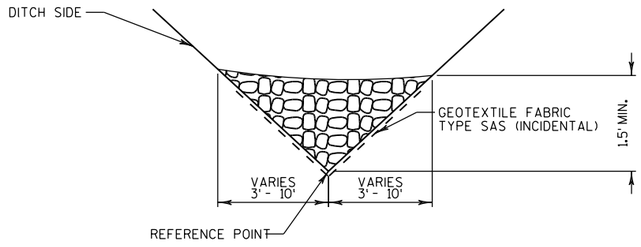
STONE DITCH CHECKS SHALL HAVE A MINIMUM TOP WIDTH OF 2-FT MEASURED IN THE DIRECTION OF FLOW WITH MAXIMUM SLOPES OF 2:1 ON THE UPSLOPE AND 2:1 ON THE DOWN SLOPE SIDE.

STONE DITCH CHECKS SHALL BE CONSTRUCTED OF A WELL-GRADED LIGHT RIPRAP MATERIAL.

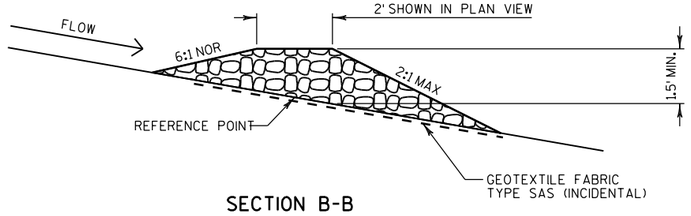
STONE DITCH CHECKS IDENTIFIED IN STORM SEWER PLAN ARE PERMANENT AND SHALL NOT BE REMOVED UPON COMPLETION OF CONSTRUCTION.



PLAN VIEW



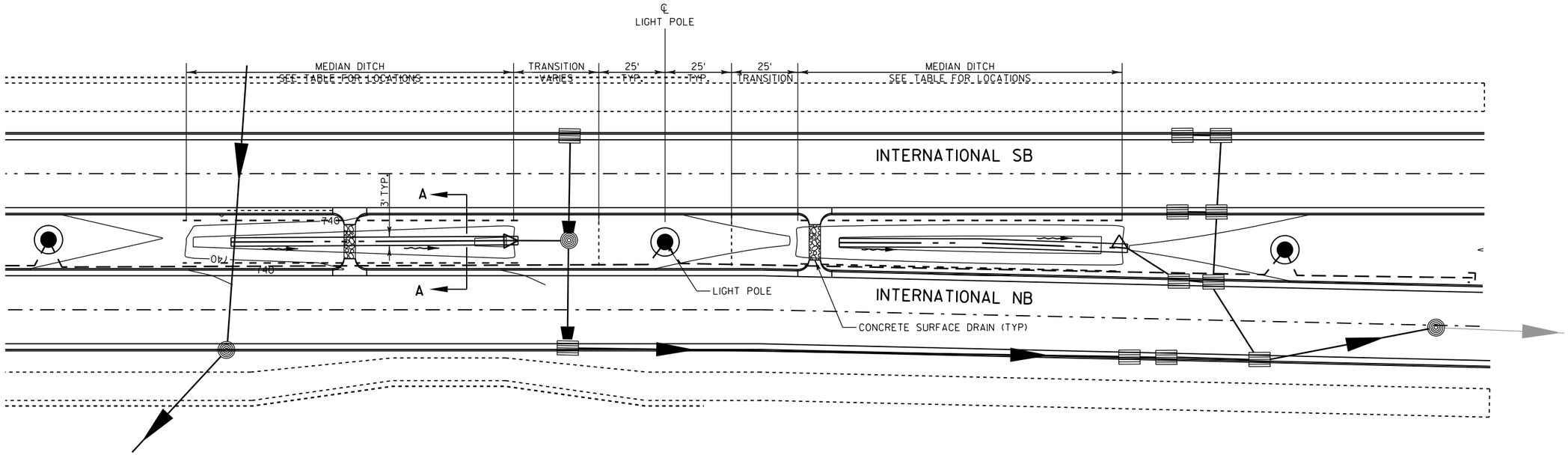
SECTION A-A

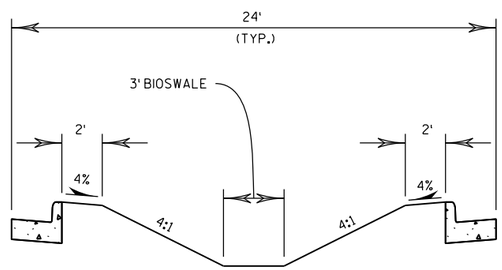


SECTION B-B

TEMPORARY STONE DITCH CHECKS

2





SECTION A-A

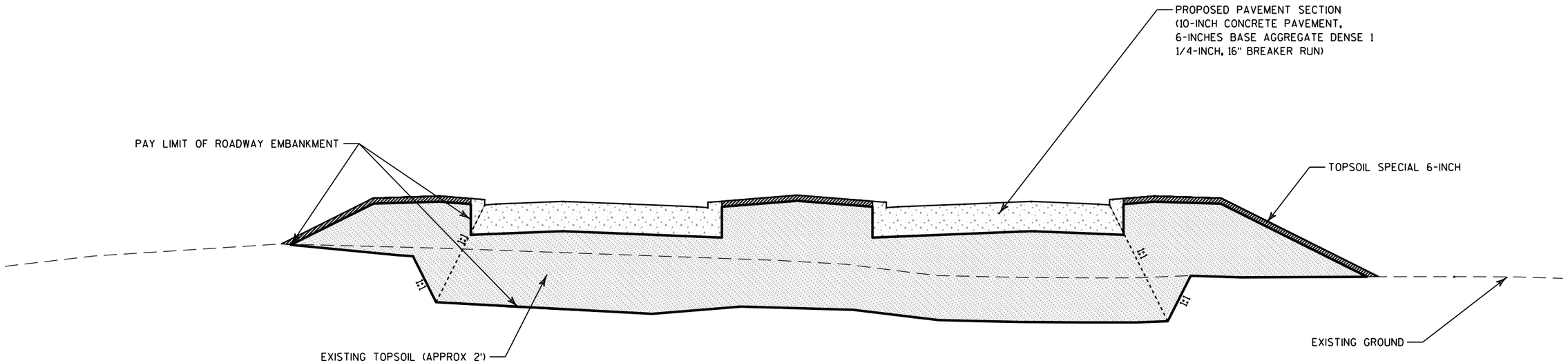
MEDIAN DITCH LOCATIONS	
55NDR+00 - 56NDR+10	80NDR+40 - 81NDR+40
59NDR+25 - 60NDR+25	82NDR+50 - 83NDR+50
61NDR+40 - 62NDR+40	94NDR+20 - 95NDR+20
63NDR+55 - 64NDR+55	96NDR+25 - 97NDR+40
65NDR+70 - 66NDR+70	98NDR+40 - 99NDR+50
67NDR+80 - 68NDR+80	102NDR+80 - 104NDR+00
69NDR+90 - 70NDR+90	105NDR+00 - 106NDR+10
72NDR+05 - 73NDR+05	107NDR+20 - 108NDR+30
76NDR+25 - 77NDR+25	109NDR+35 - 110NDR+45
78NDR+35 - 79NDR+35	

MEDIAN DITCH

NOTES:

1. SEE STORM SEWER PLANS FOR STORM SEWER DETAILS.
2. SEE CROSS SECTIONS AND DRAINAGE PLANS FOR DIRECTION OF WATER FLOW.

2



TOPSOIL REMOVAL DETAIL

NOTES:

STRIP TOPSOIL FROM ROADWAY FOUNDATION. REPLACE WITH ROADWAY EMBANKMENT.

EXCESS TOPSOIL REMOVED NOT REQUIRED TO COVER SIDE SLOPES UNDER THE TOPSOIL SPECIAL BID ITEM TO BE PAID AS EXCAVATION COMMON.

THE TOPSOIL THICKNESS MAY BE INCREASED TO 12" OR AS DIRECTED BY THE ENGINEER TO UTILIZE EXCESS TOPSOIL.
TOPSOIL PLACED THICKER THAN 6" WILL BE PAID FOR UNDER THE ROADWAY EMBANKMENT BID ITEM.

IN AREAS REQUIRING 2' OF FILL OR LESS, EBS EXCAVATION BELOW TOPSOIL LAYER AS DIRECTED BY THE ENGINEER, REPLACE WITH EBS BACKFILL.

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 20	E

2

N

SEALING PIPE STUB. SEE "TEMPORARY BULKHEAD PIPE MASONRY" CONSTRUCTION DETAIL.

EXISTING RESIDENCE TO BE REMOVED BY OTHERS

SLOPE INTERCEPT (TYP)

30LF REMOVING FENCE

240 LF REMOVING STORM SEWER

22 LF REMOVING CULVERT PIPE

WETLAND BOUNDARY

26LS

28LS

30LS

32LS

LOUIS SORENSON ROAD

R/L LOUIS SORENSON ROAD

R/L INTERNATIONAL DRIVE SB

R/L INTERNATIONAL DRIVE NB

INTERNATIONAL DRIVE

86SDR 86NDR 88SDR 88NDR 90SDR 90NDR 92SDR 92NDR 94SDR 94NDR 96SDR 96NDR 98SDR 98NDR 99NDR+00

MATCHLINE 99NDR+00

REMOVAL LEGEND

- CLEARING AND GRUBBING
- REMOVING INLET
- —RM— REMOVING STORM SEWER
- REMOVING CULVERT PIPE
- —x— REMOVING FENCE
- XXXXX SAWCUT

NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	REMOVAL PLAN	SHEET 21	E

2

N

WETLAND BOUNDARY (TYP)

R/L INTERNATIONAL DRIVE SB

MATCHLINE 99NDR+00

100SDR 102SDR 104SDR 106SDR 108SDR 110SDR

100NDR INTERNATIONAL DRIVE 102NDR 104NDR 106NDR 108NDR 110NDR

RM

167 LF REMOVING STORM SEWER

SLOPE INTERCEPT (TYP)

R/L INTERNATIONAL DRIVE NB

REMOVAL LEGEND

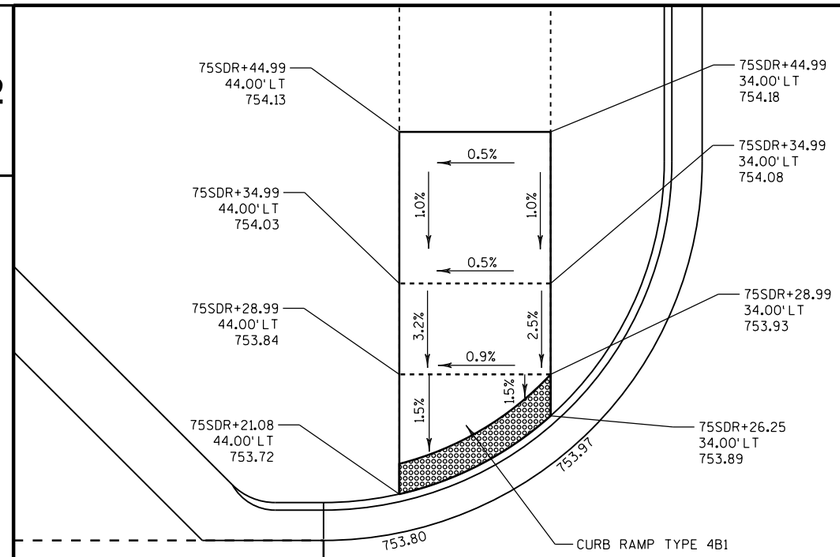
CLEARING AND GRUBBING

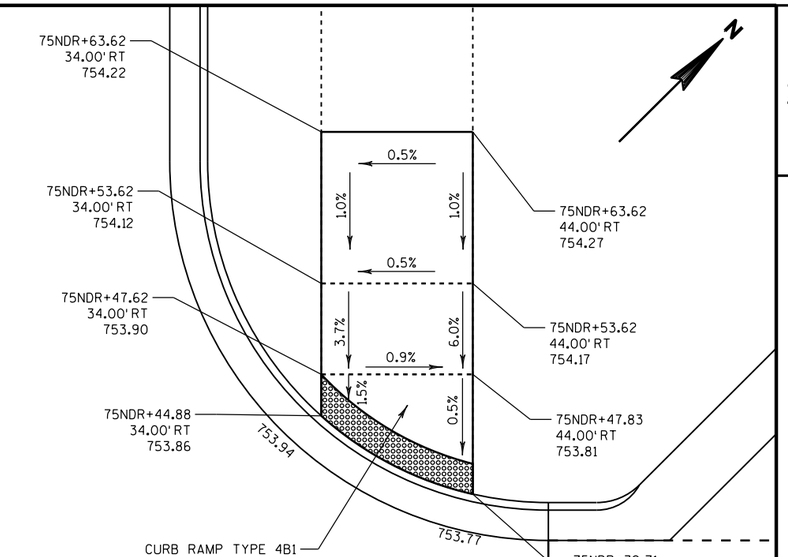
—RM— REMOVING STORM SEWER

XXXXX SAWCUT

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	REMOVAL PLAN	SHEET 22	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalDrive_Racine_RemovalPlan_20181218m.dgn PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1 PLOT DATE : 4/29/2019





2

INTERNATIONAL DRIVE

R/L INTERNATIONAL DRIVE SB

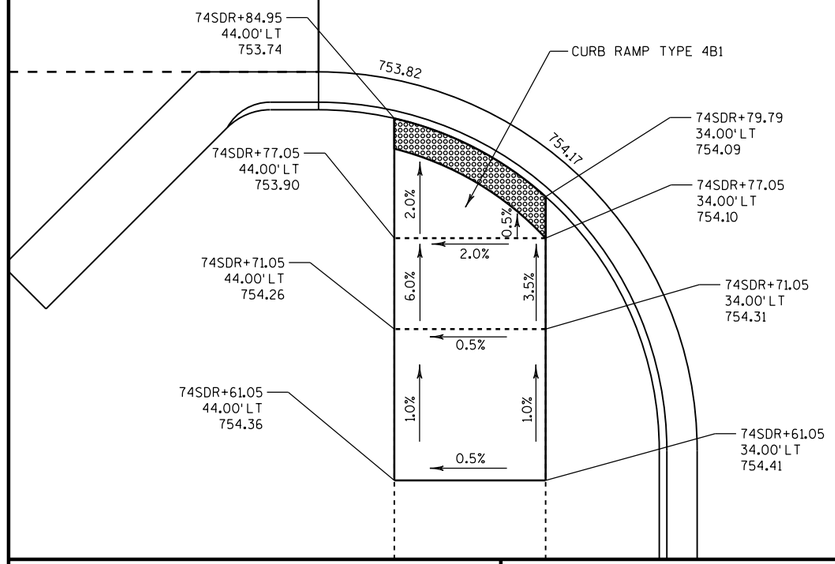
11FDW

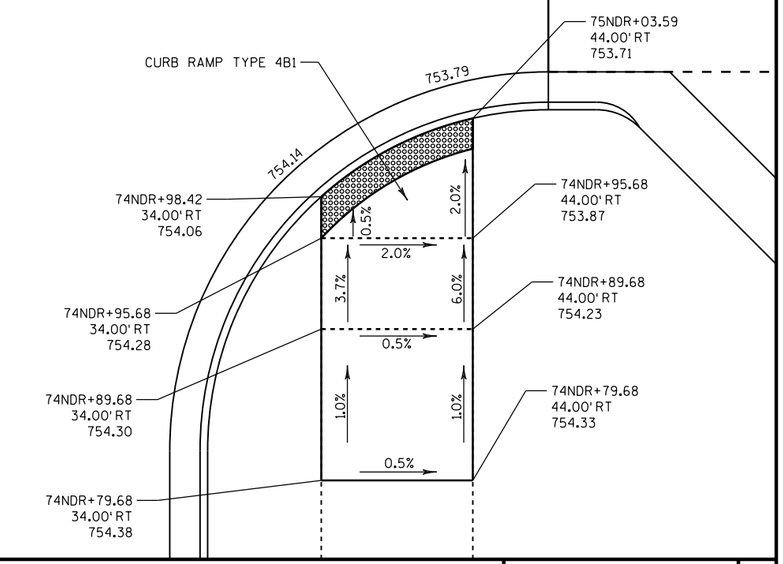
12FDW

75SDR

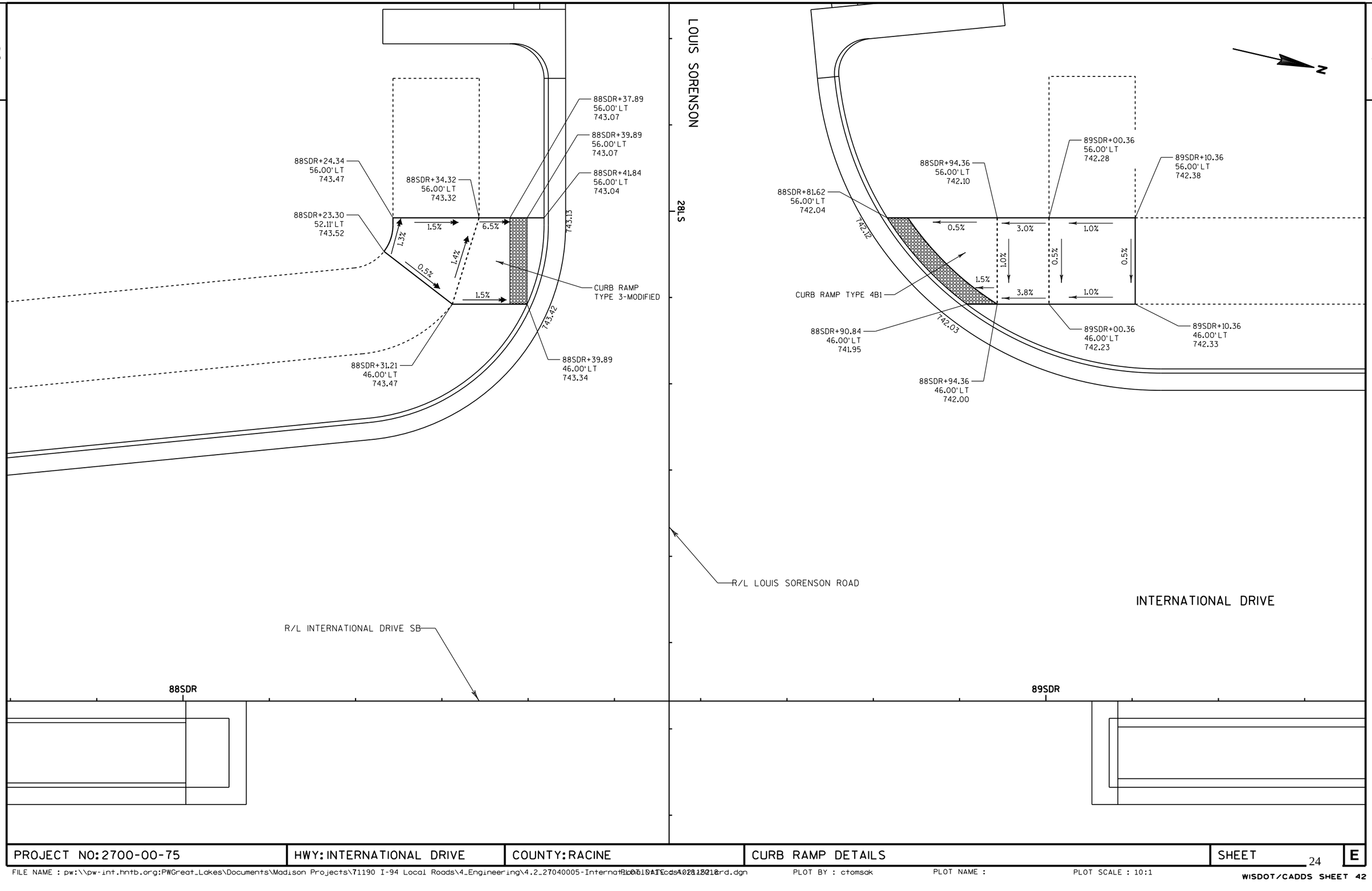
75NDR

R/L INTERNATIONAL DRIVE NB





PROJECT NO: 2700-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CURB RAMP DETAILS	SHEET 23	E



PROJECT NO: 2700-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CURB RAMP DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive Ped Ramps\Roadway\Sheets\4028218218rd.dgn PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 10:1

2

88NDR

89NDR

2

N

R/L INTERNATIONAL DRIVE NB

29LS

R/L LOUIS SORENSON ROAD

INTERNATIONAL DRIVE

88NDR+23.31
46.00' RT
742.68

88NDR+07.31
46.00' RT
742.99

88NDR+17.31
46.00' RT
742.89

742.73

88NDR+26.83
46.00' RT
742.64

CURB RAMP TYPE 4B1

1.0%

3.5%

1.1%

0.5%

0.5%

2.0%

743.31

1.0%

6.0%

2.0%

88NDR+36.05
56.00' RT
743.22

88NDR+07.31
56.00' RT
743.94

88NDR+23.31
56.00' RT
743.48

88NDR+17.31
56.00' RT
753.84

88NDR+86.46
46.00' RT
743.47

88NDR+77.79
46.00' RT
743.31

743.39

CURB RAMP
TYPE 3-MODIFIED

88NDR+94.37
52.11' RT
743.55

1.8%

0.6%

0.6%

88NDR+75.83
56.00' RT
743.16

4.0%

1.0%

1.0%

742.24

88NDR+93.33
56.00' RT
753.51

88NDR+77.79
56.00' RT
743.19

88NDR+83.33
56.00' RT
743.41

LOUIS SORENSON

PROJECT NO: 2700-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CURB RAMP DETAILS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive NB.dgn PLOT DATE : 4/28/2021 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 10:1

WISDOT/CADDS SHEET 42

2

N

CANADIAN PACIFIC RAILWAY

WETLAND BOUNDARY (TYP)

SLOPE INTERCEPT (TYP)

BEGIN CONSTRUCTION
STA 50SDR+61.77
X=600647.37
Y=175692.40

4:1

50SDR

MATCH PROJECT 1320-23-70
BY OTHERS

50NDR

BEGIN PROJECT 2704-00-75
STA 50NDR+61.77
X=600683.37
Y=175692.47

100

101

SDR+08.32
36.00'LT

SDR+95.15
24.00'LT

51SDR

CM05

52SDR

R/L INTERNATIONAL DRIVE SB

INTERNATIONAL DRIVE

51NDR

CG06

52NDR

R/L INTERNATIONAL DRIVE NB

NDR+02.62
24.00'RT

CG02

CP20

12'

SDR+77.90
36.00'LT

12.5:1

SDR+77.42
24.00'LT

CM01

SDR+77.42
12.00'RT

SDR+77.90
24.00'RT

14:1

11:1

MATCHLINE 53NDR+00

FUTURE SHARED-USED PATH
CONSTRUCTED BY OTHERS (TYP.)

PROPOSED DITCH (TYP)

STH 11

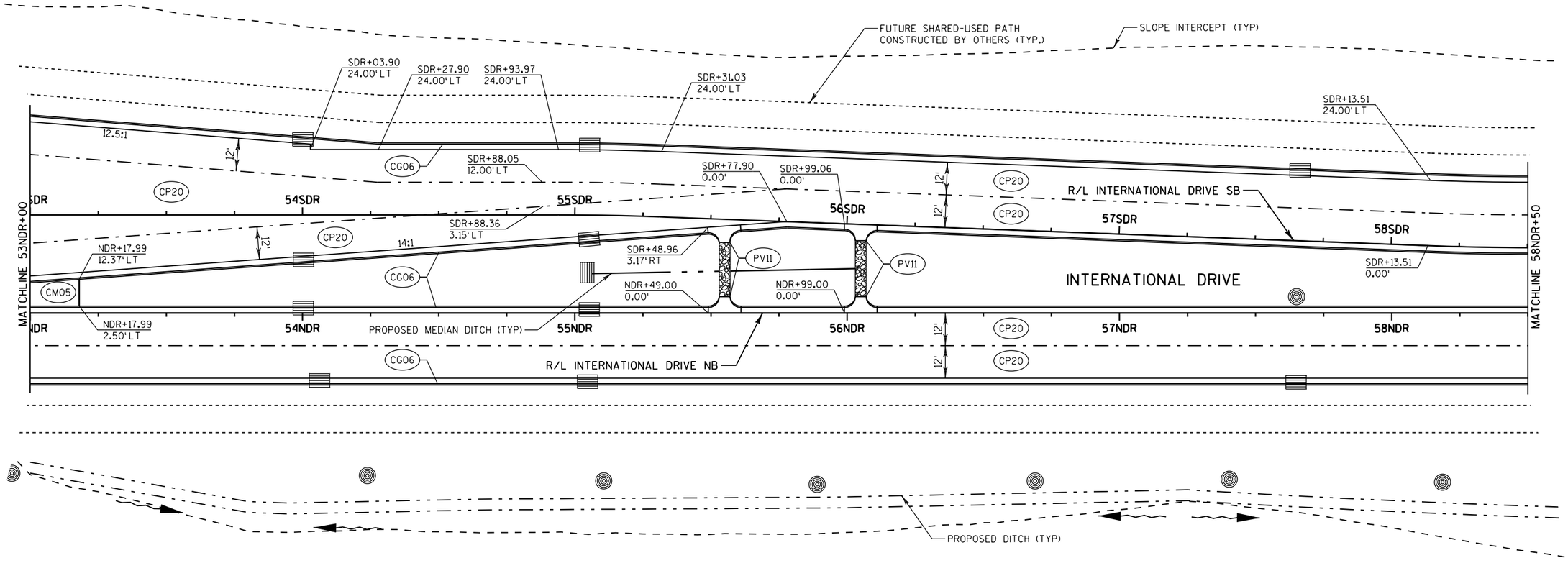
PAVEMENT DETAIL LEGEND

- (CG02) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED

RADIUS TABLE (CENTER OF RADIUS)			
100	50SDR+95.15	274.00'LT	250.00'
101	51SDR+08.32	286.00'LT	250.00'
102	52SDR+77.58	28.00'LT	10.00'
103	52SDR+77.61	16.00'RT	10.00'

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 26	E

2



PAVEMENT DETAIL LEGEND

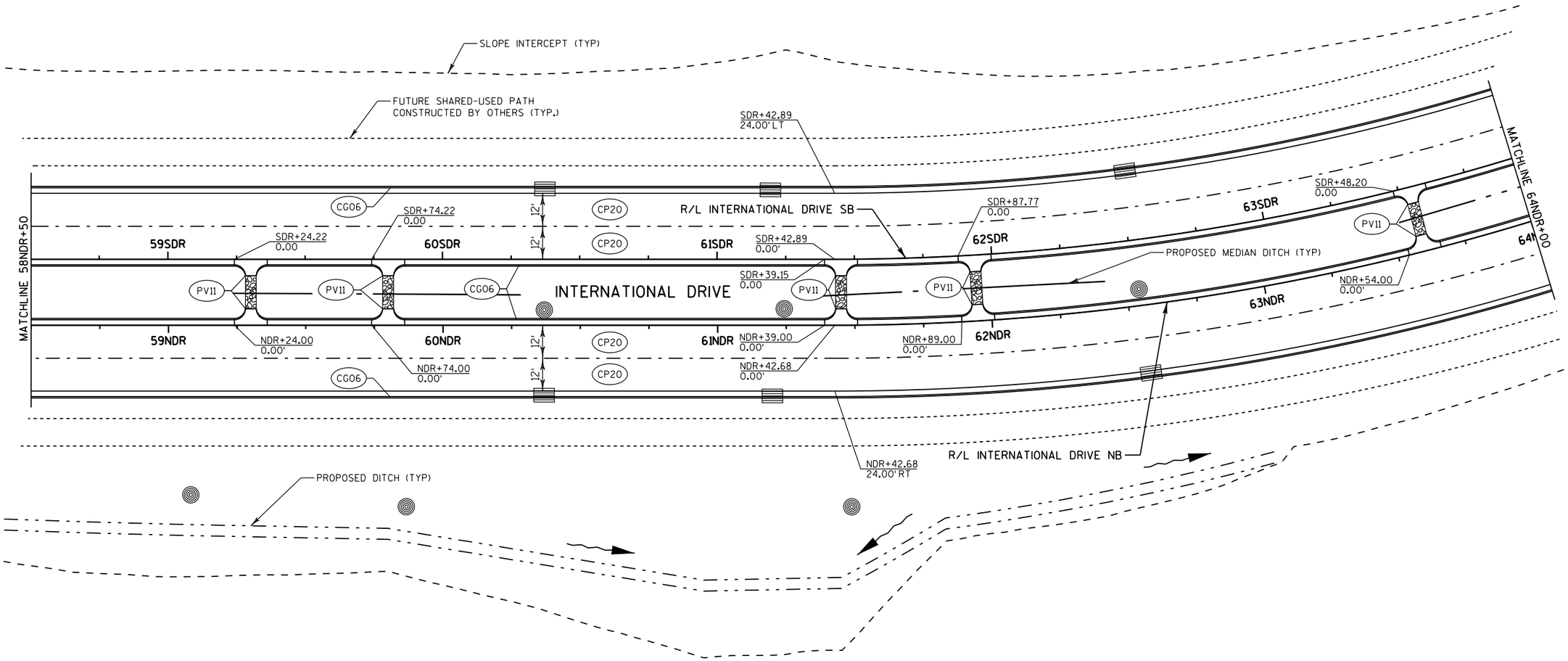
- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CM05 CONCRETE SIDEWALK, 5-INCH
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- PV11 CONCRETE SURFACE DRAINS

RADIUS TABLE (CENTER OF RADIUS)			
104	55SDR+78.55	12.00' RT	10.00'

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 27	E

2

N

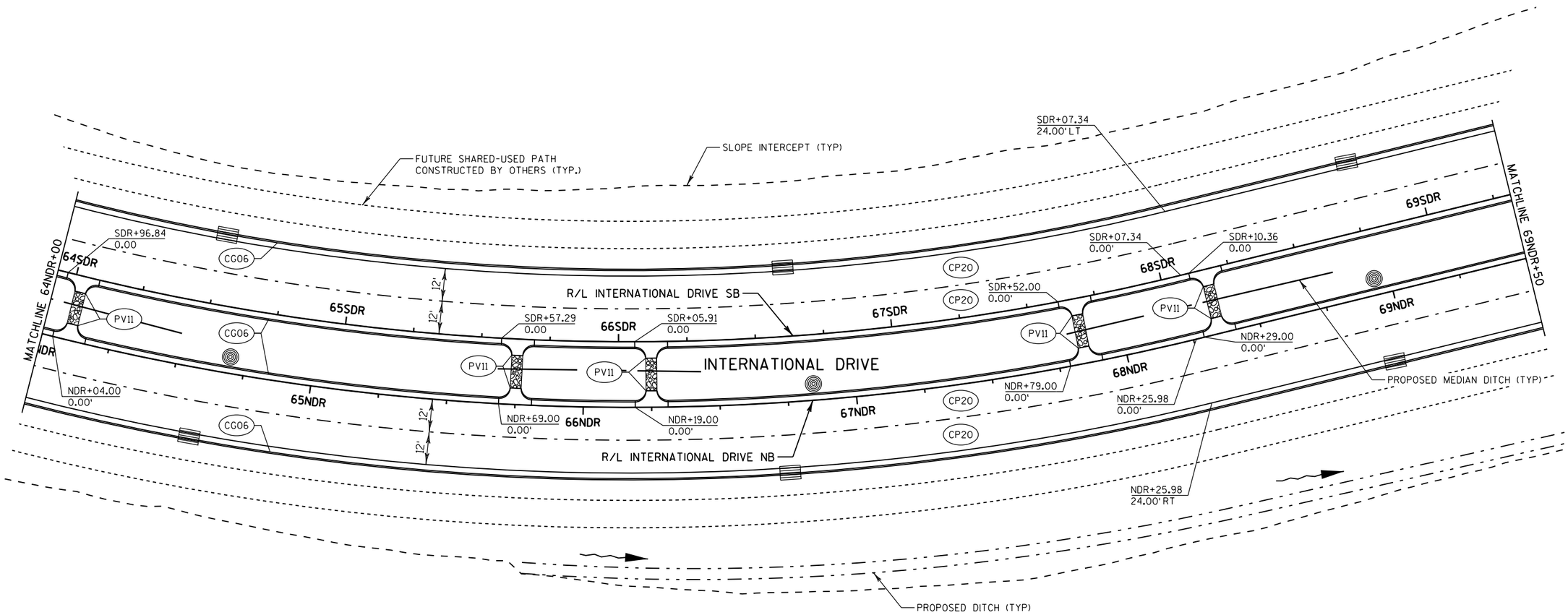


PAVEMENT DETAIL LEGEND

- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV11) CONCRETE SURFACE DRAINS

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 28	E

2

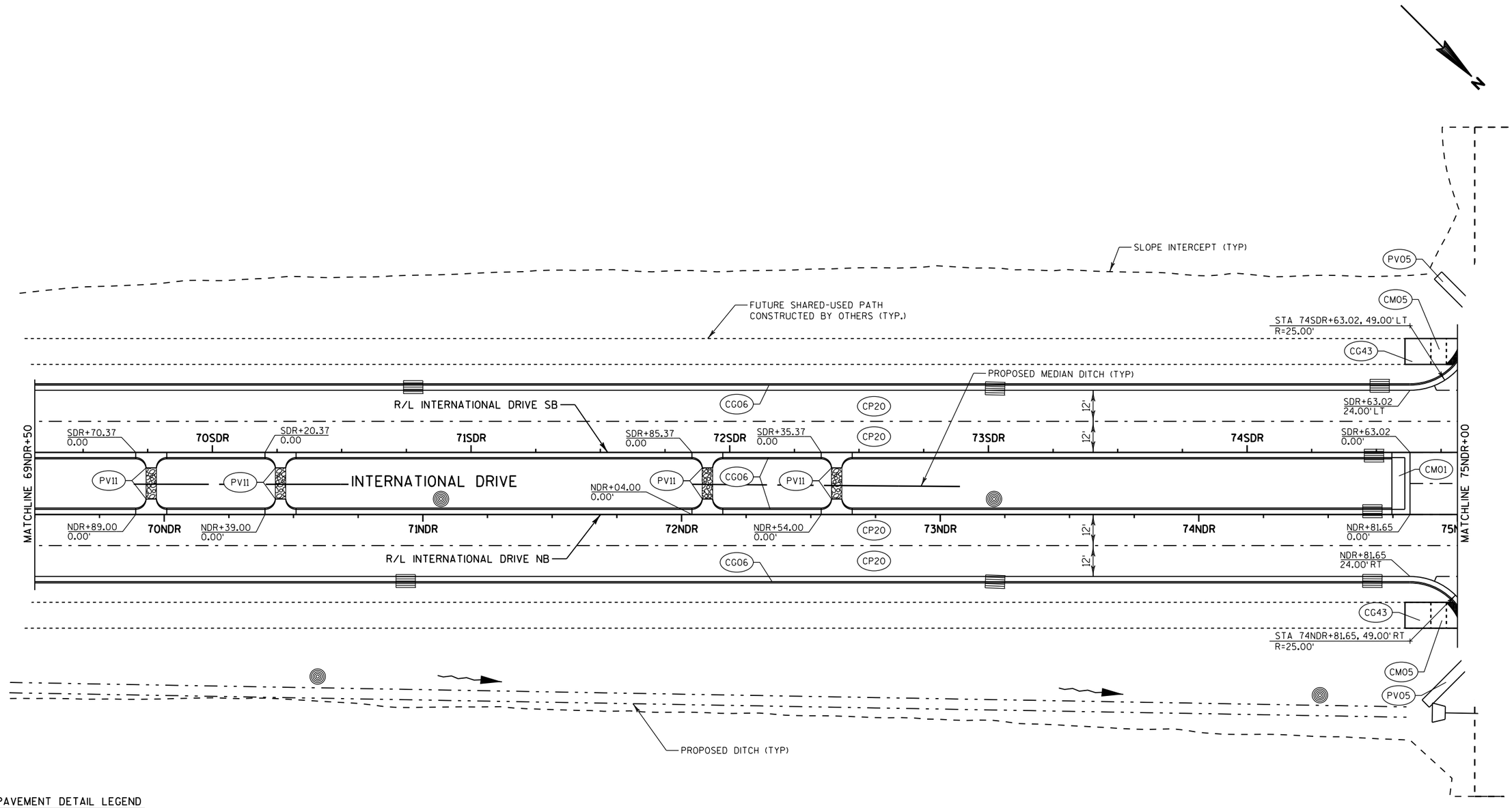


PAVEMENT DETAIL LEGEND

- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV11) CONCRETE SURFACE DRAINS

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 29	E

2



PAVEMENT DETAIL LEGEND

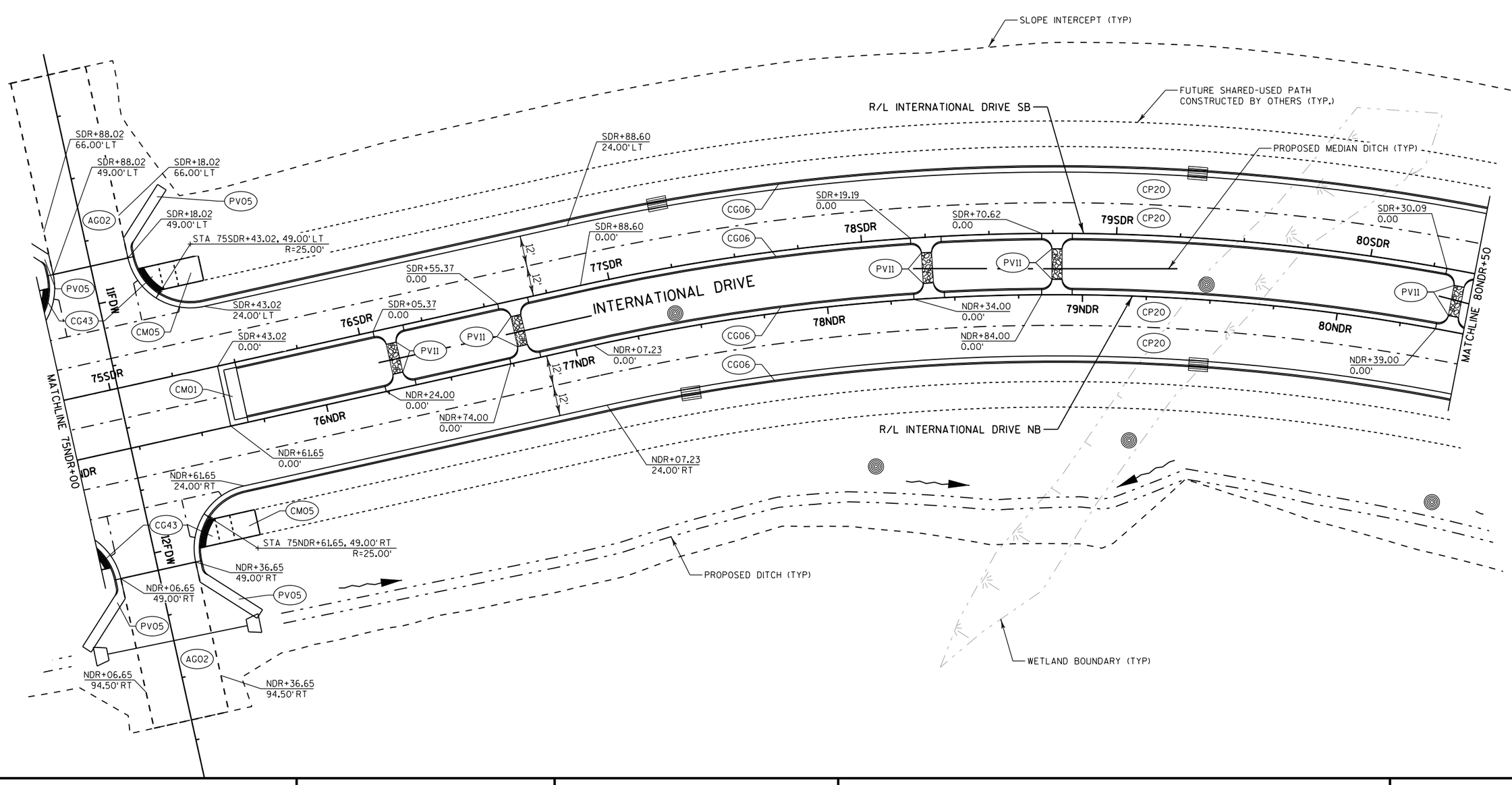
- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CG43) CURB RAMP TYPE 4B1
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAINS

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 30	E

2

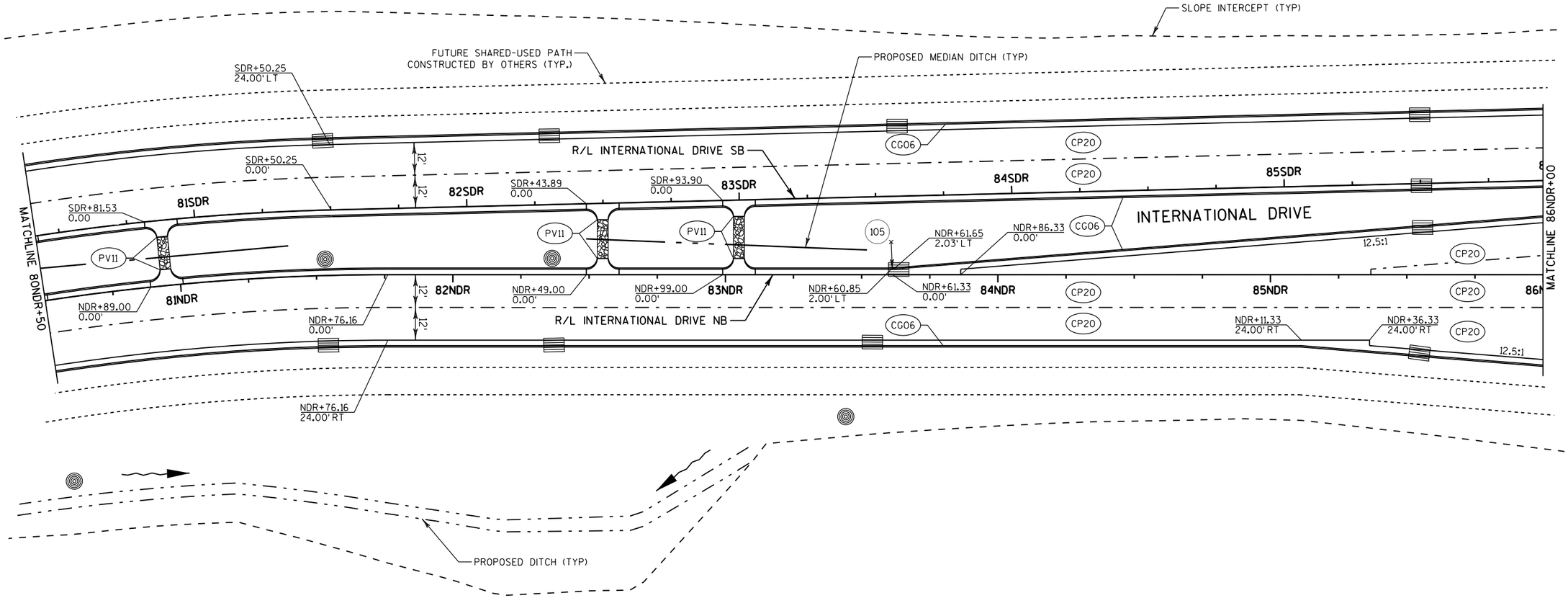
PAVEMENT DETAIL LEGEND

- (AGO2) BASE AGGREGATE DENSE 1 1/4-INCH
- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CG43) CURB RAMP TYPE 4B1
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAINS



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 31	E

2



PAVEMENT DETAIL LEGEND

- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV11) CONCRETE SURFACE DRAINS

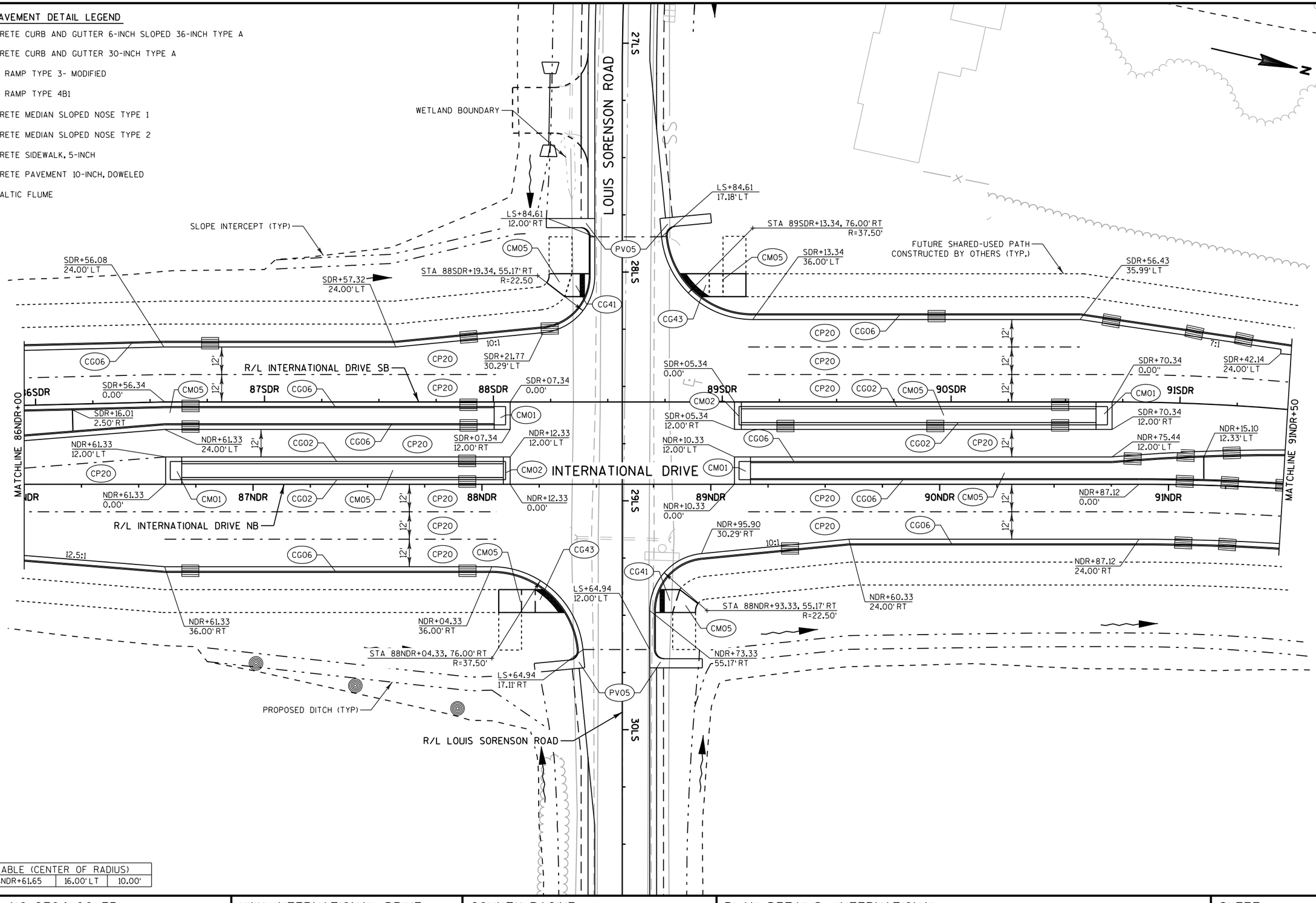
RADIUS TABLE (CENTER OF RADIUS)			
105	83NDR+60.85	12.00' LT	10.00'

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 32	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International_Local_Roads_Design.dgn PLOT DATE : 4/28/2021 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

PAVEMENT DETAIL LEGEND

- (CG02) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CG41) CURB RAMP TYPE 3- MODIFIED
- (CG43) CURB RAMP TYPE 4B1
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM02) CONCRETE MEDIAN SLOPED NOSE TYPE 2
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV05) ASPHALTIC FLUME

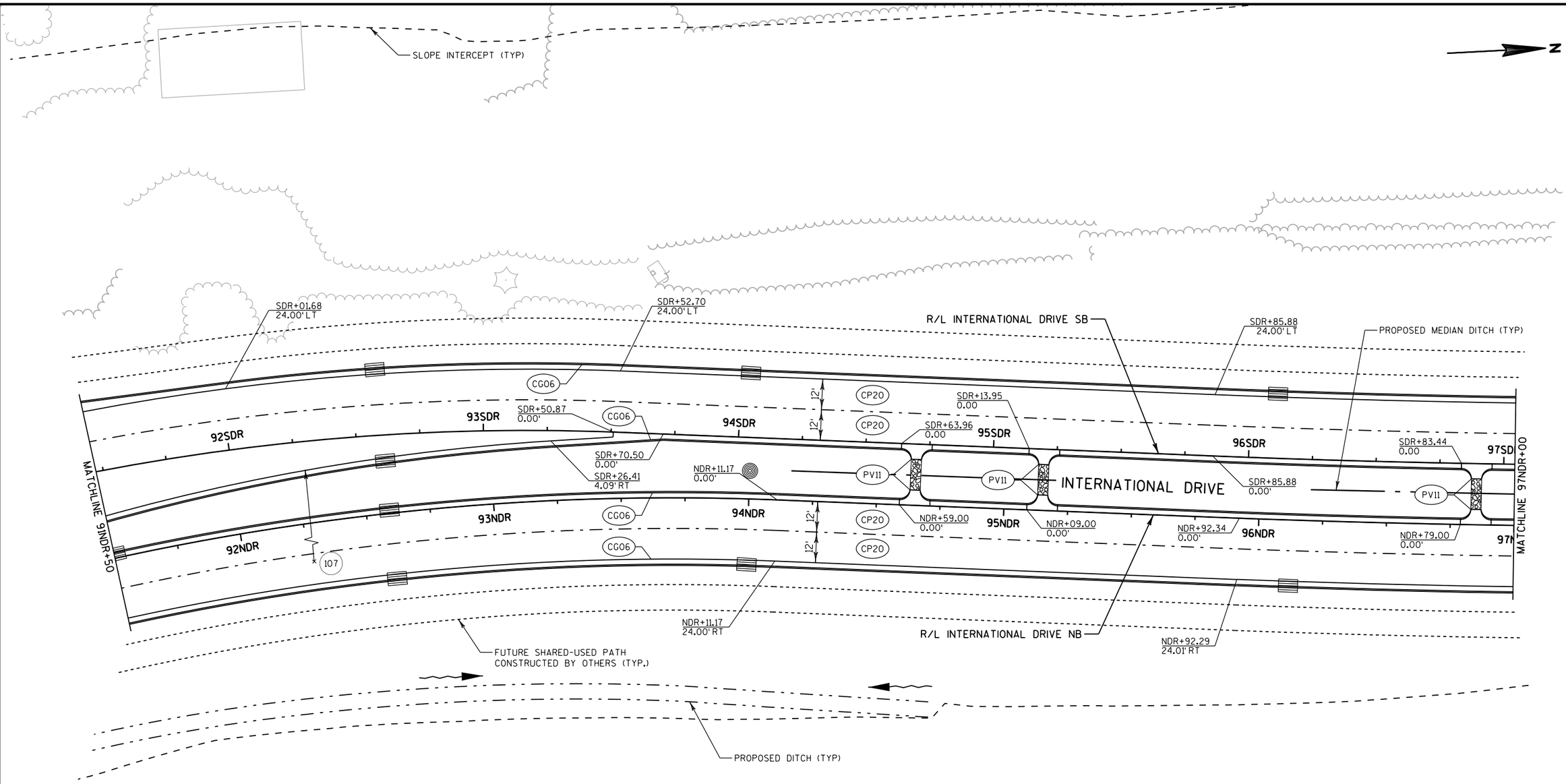


RADIUS TABLE (CENTER OF RADIUS)			
106	86NDR+61.65	16.00' LT	10.00'

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International_Loc51_ATE.dgn PLOT DATE : 4/28/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

2



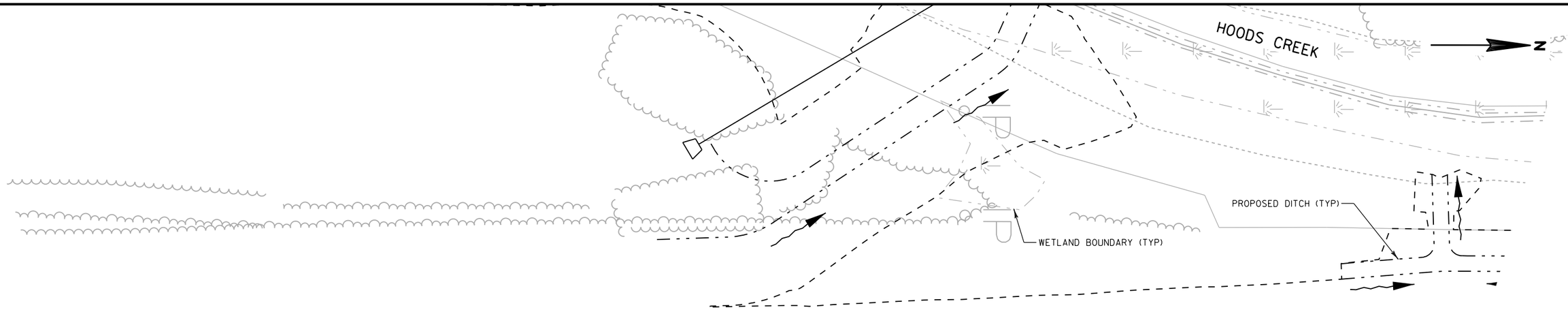
PAVEMENT DETAIL LEGEND

- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV11) CONCRETE SURFACE DRAINS

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
107	93NDR+89.94	818.23' RT	842.13'

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 34	E

2



PAVEMENT DETAIL LEGEND

(CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A

(CP20) CONCRETE PAVEMENT 10-INCH, DOWELED

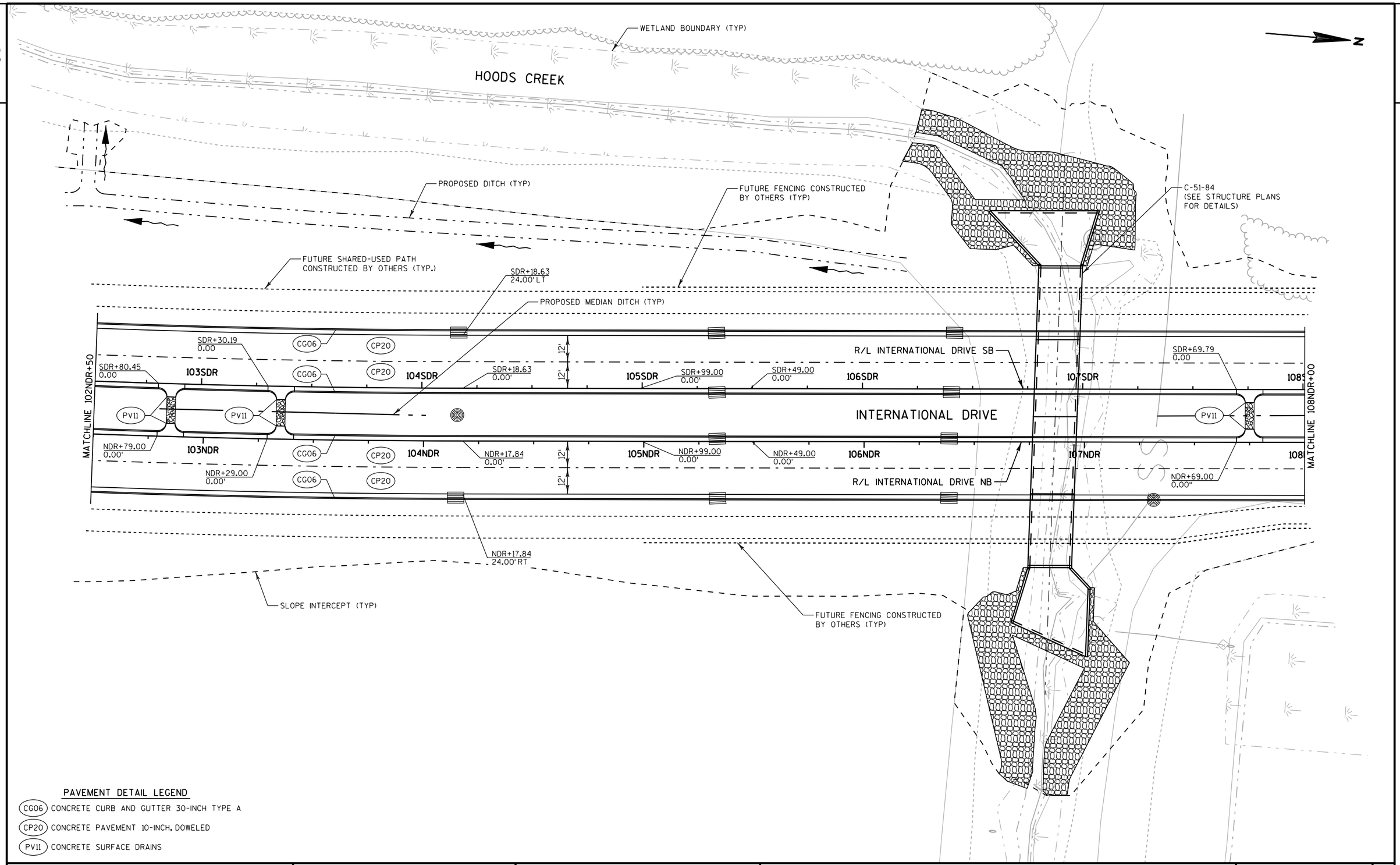
(PV11) CONCRETE SURFACE DRAINS

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr\Plans\Cads\4028220d.dgn PLOT DATE : 4/28/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



PAVEMENT DETAIL LEGEND

- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV11) CONCRETE SURFACE DRAINS

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 36	E

2

N

WETLAND BOUNDARY (TYP)

FUTURE FENCING CONSTRUCTED BY OTHERS (TYP)

SLOPE INTERCEPT (TYP)

PROPOSED MEDIAN DITCH (TYP)

END CONSTRUCTION
STA 111SDR+76.39
X=599285.77
Y=181382.82

END PROJECT 2704-00-75
STA 111NDR+75.14
X=599315.59
Y=181384.73

MATCH EXISTING INTERNATIONAL DRIVE

R/L INTERNATIONAL DRIVE SB

INTERNATIONAL DRIVE

R/L INTERNATIONAL DRIVE NB

MATCHLINE 108NDR+00

108SDR

109SDR SDR+34.00 0.00

110SDR

SDR+48.00 0.00

111SDR

PV11

NDR+34.00 0.00'

108NDR

109NDR NDR+20.37 0.00'

110NDR

NDR+47.25 0.00

111NDR

NDR+20.10 24.00' RT

12'

CG06

CP20

FUTURE FENCING CONSTRUCTED BY OTHERS (TYP)

FUTURE SHARED-USED PATH CONSTRUCTED BY OTHERS (TYP.)

PAVEMENT DETAIL LEGEND

(CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A

(CP20) CONCRETE PAVEMENT 10-INCH, DOWELED

(PV11) CONCRETE SURFACE DRAINS

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- INTERNATIONAL	SHEET 37	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International_Roads_Design\... PLOT DATE : 4/28/2021 ...d.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

2

2

N

BEGIN CONSTRUCTION
STA 25LS+50.91
X=599089.21
Y=179011.48

LS+24.78
11.63' LT

LS+51.89
12.00' LT

LS+63.54
12.00' LT

LS+04.69
14.16' LT

LS+07.75
12.00' LT

LS+76.41
18.88' LT

AP25
AG02

10:1

25LS
26LS
27LS
28LS
29LS
30

LOUIS SORENSON ROAD

12'
12'

LS+72.94
12.00' LT

LS+76.61
12.00' RT

LS+73.14
18.88' RT

MATCHLINE 30LS+00

LS+82.29
11.42' RT

R/L LOUIS SORENSON ROAD

LS+63.79
12.00' RT

LS+04.62
15.00' RT

LS+13.58
12.00' RT

DR03

WETLAND BOUNDARY

SLOPE INTERCEPT (TYP)

PROPOSED DITCH (TYP)

90SDR
90NDR
89SDR
89NDR
88SDR
88NDR
87SDR
87NDR

PAVEMENT DETAIL LEGEND

(AG02) BASE AGGREGATE DENSE 1 1/4-INCH

(AP25) HMA PAVEMENT TYPE 4 LT 58-28 S, 2-1/4" (UPPER LAYER)
HMA PAVEMENT TYPE 3 LT 58-28 S, 3-1/4" (LOWER LAYER)

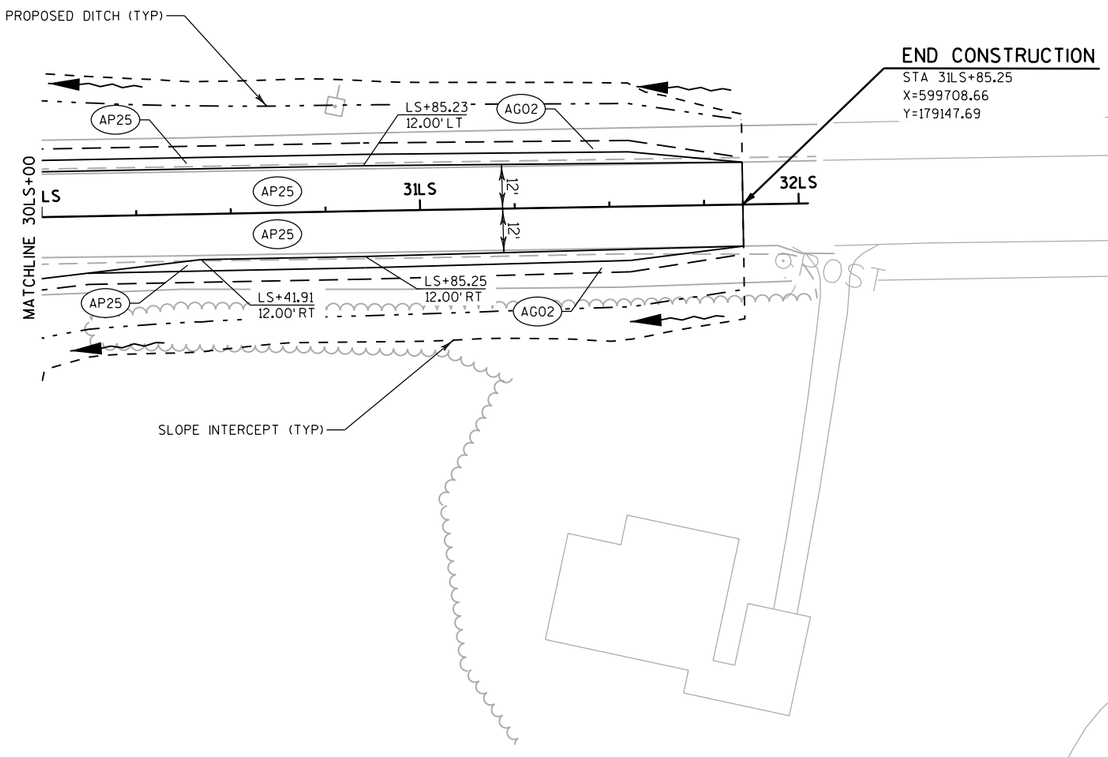
(DR03) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN DETAILS- LOUIS SORENSON	SHEET 38	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Circle\Plan Sheets\4.2.27318.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



END CONSTRUCTION
STA 31LS+85.25
X=599708.66
Y=179147.69

N

PAVEMENT DETAIL LEGEND

(AG02) BASE AGGREGATE DENSE 1 1/4-INCH

(AP25) HMA PAVEMENT TYPE 4 LT 58-28 S, 2-¼" (UPPER LAYER)
HMA PAVEMENT TYPE 3 LT 58-28 S, 3-¼" (LOWER LAYER)

PROJECT NO:2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY:RACINE	PLAN DETAILS- LOUIS SORENSON	SHEET 39	E

2

2

N

CANADIAN PACIFIC RAILWAY

STH 11

WETLAND BOUNDARY (TYP)

SLOPE INTERCEPT (TYP)

R/L INTERNATIONAL DRIVE SB

50SDR

52SDR

54SDR

56SDR

50NDR

52NDR

54NDR

INTERNATIONAL DRIVE

56NDR

MATCHLINE 57NBR+00

R/L INTERNATIONAL DRIVE NB

BEGIN PROJECT 2704-00-75

STA 50NDR+61.77

X=600683.37

Y=175692.47

LEGEND

DISTURBED WETLAND AREA

SLOPE INTERCEPT

FLOODPLAIN

WETLAND BOUNDARY

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	DISTURBED WETLANDS	SHEET 40	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\Plan Sheets\4028780118w.dgn PLOT DATE : 4/28/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

WETLAND BOUNDARY (TYP)

MATCHLINE 57NBR+00

SLOPE INTERCEPT (TYP)

58SDR

58NDR

60SDR

60NDR

62SDR

62NDR

R/L INTERNATIONAL DRIVE SB

64SDR

64NDR

66SDR

66NDR

68SDR

68NDR

INTERNATIONAL DRIVE

70SDR

70NDR

MATCHLINE 71NDR+00

R/L INTERNATIONAL DRIVE NB

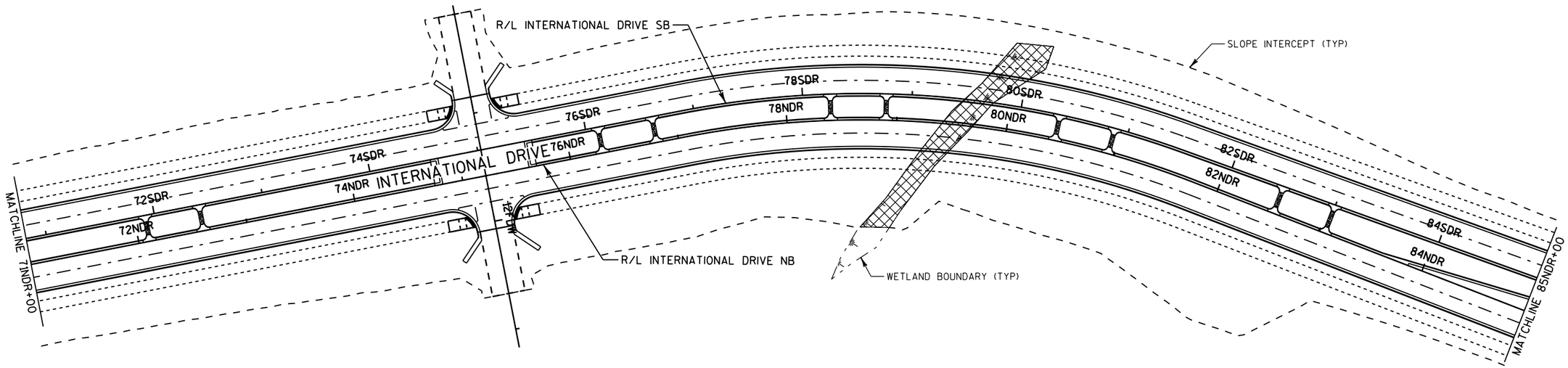
LEGEND

- DISTURBED WETLAND AREA
- SLOPE INTERCEPT
- FLOODPLAIN
- WETLAND BOUNDARY

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	DISTURBED WETLANDS	SHEET 41	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr\Plan Sheets\4027802dw.dgn PLOT DATE : 4/28/2021 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

2



LEGEND

- DISTURBED WETLAND AREA
- SLOPE INTERCEPT
- FLOODPLAIN
- WETLAND BOUNDARY

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	DISTURBED WETLANDS	SHEET 42	E

2

N

FLOODPLAIN (TYP)

HOODS CREEK

SLOPE INTERCEPT (TYP)

R/L LOUIS SORENSON ROAD

LOUIS SORENSON ROAD

26LS

28LS

30LS

32LS

86SDR

86NDR

88SDR

88NDR

90SDR

90NDR

92SDR

92NDR

94SDR

94NDR

96SDR

96NDR

98SDR

98NDR

INTERNATIONAL DRIVE

R/L INTERNATIONAL DRIVE SB

R/L INTERNATIONAL DRIVE NB

MATCHLINE 85NDR+00

MATCHLINE 99NDR+00

LEGEND

DISTURBED WETLAND AREA

SLOPE INTERCEPT

FLOODPLAIN

WETLAND BOUNDARY

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	DISTURBED WETLANDS	SHEET 43	E

2

N

WETLAND BOUNDARY (TYP)

C-51-84

HOODS CREEK

R/L INTERNATIONAL DRIVE SB

MATCHLINE 99NDR+00

100SDR 102SDR 104SDR 106SDR 108SDR 110SDR

100NDR INTERNATIONAL DRIVE 102NDR 104NDR 106NDR 108NDR 110NDR

R/L INTERNATIONAL DRIVE NB

SLOPE INTERCEPT (TYP)

FLOODPLAIN (TYP)

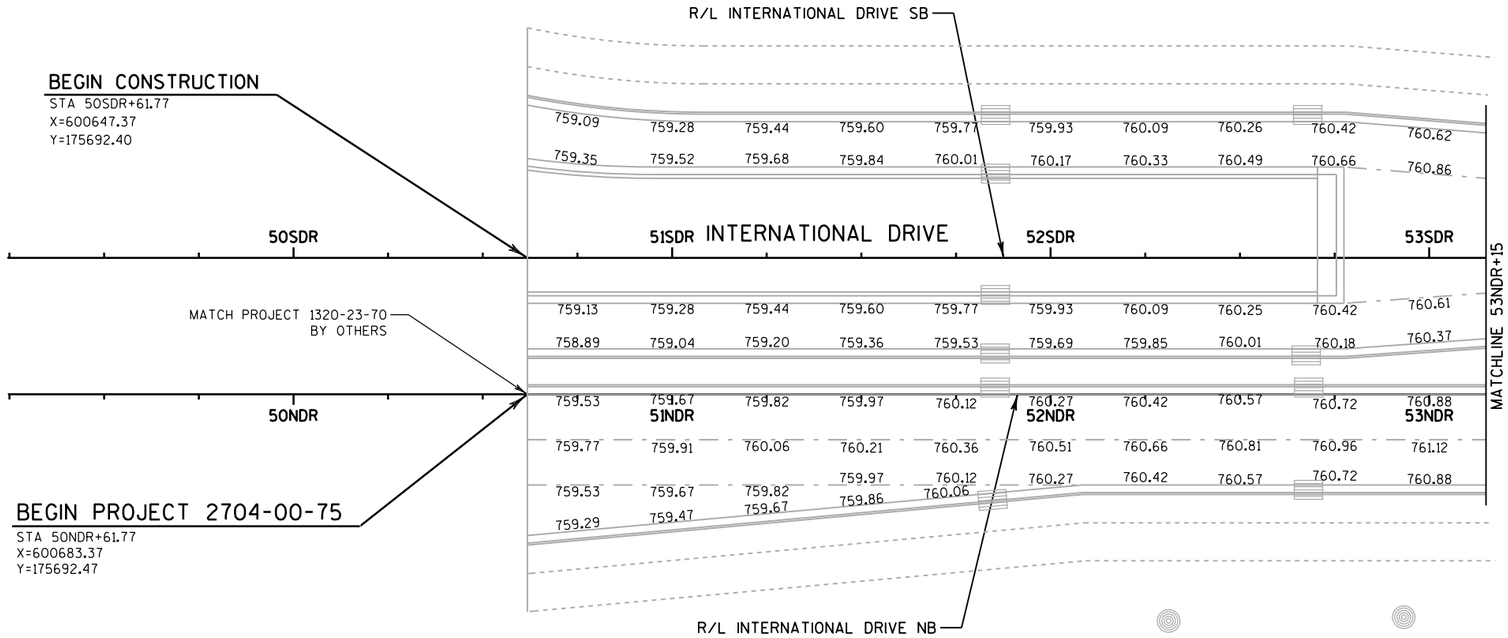
END PROJECT 2704-00-75
STA 111NDR+75.14
X=599315.59
Y=181384.73

LEGEND

- DISTURBED WETLAND AREA
- SLOPE INTERCEPT
- FLOODPLAIN
- WETLAND BOUNDARY

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	DISTURBED WETLANDS	SHEET 44	E

2

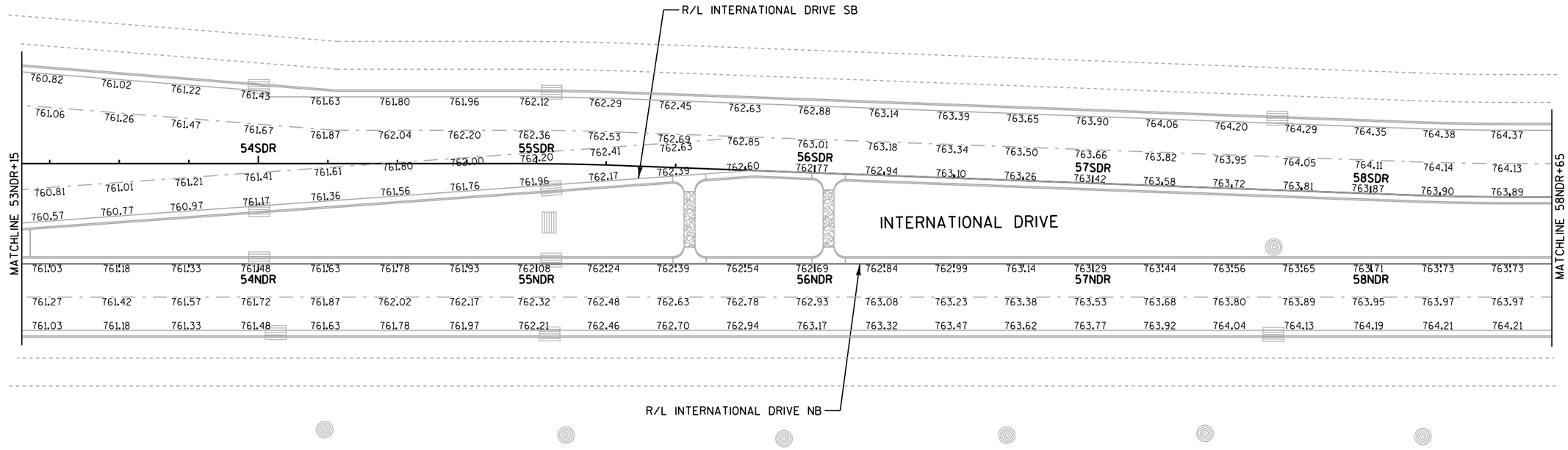


NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 45	E

2



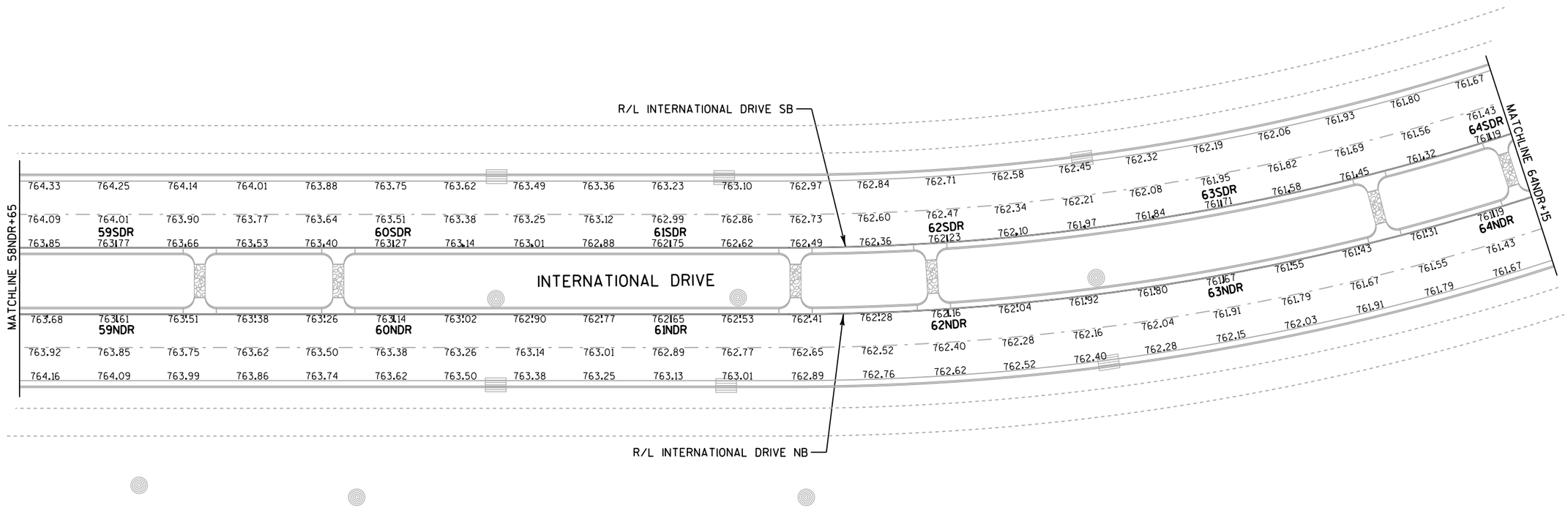
NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 46	E

2

N

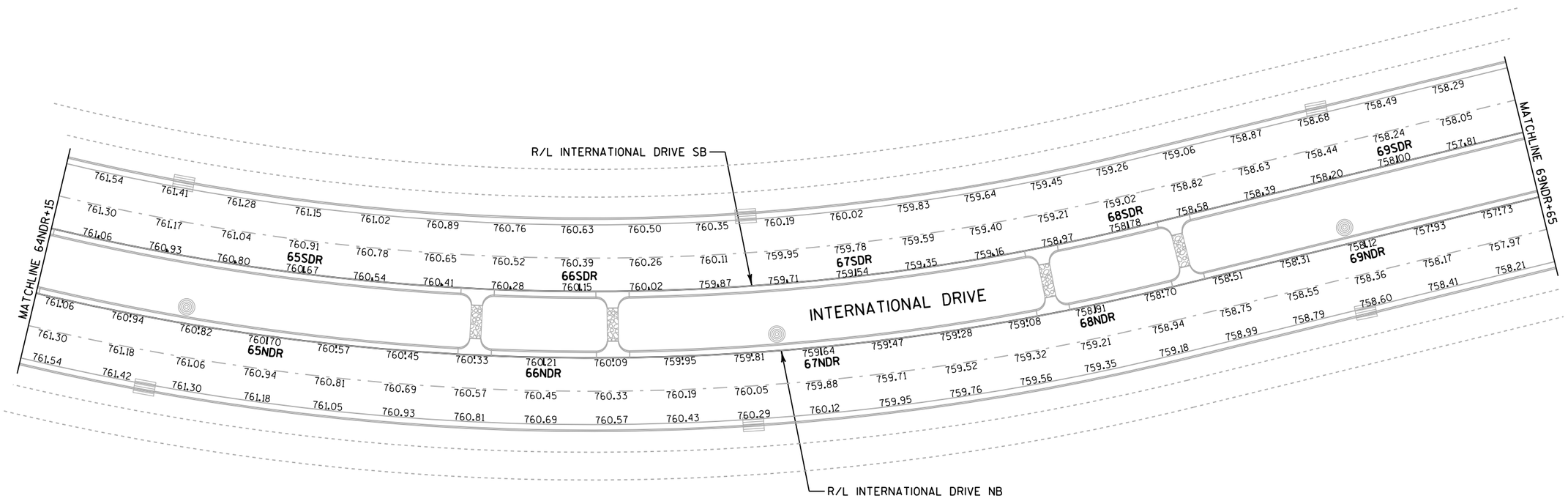


NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 47	E

2



NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 48	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Circle\PLOTS\4.2_27040005-Sheet-Paving-Grades-International-Dr-Sheet-Sg.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

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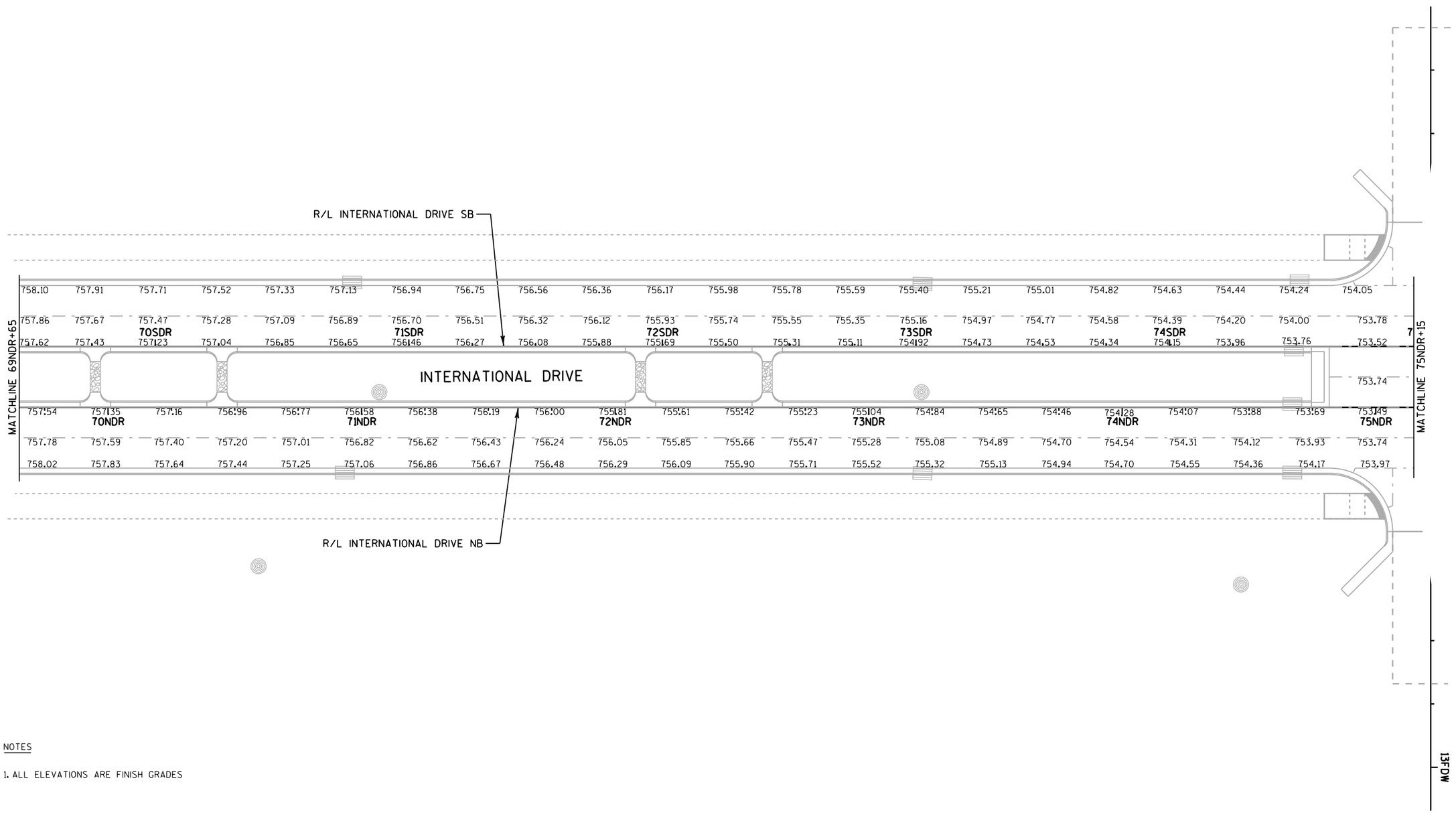

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 49	E

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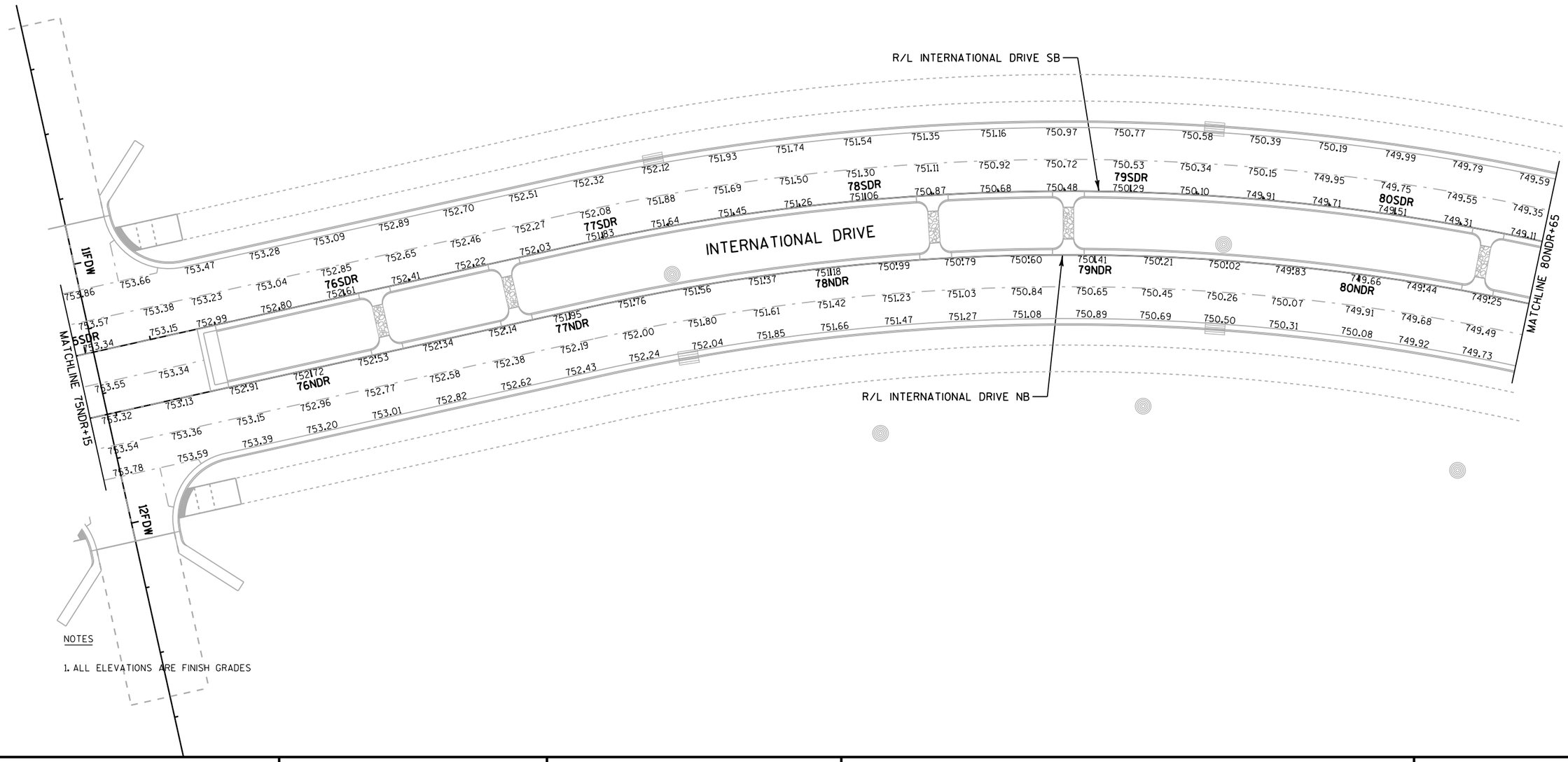
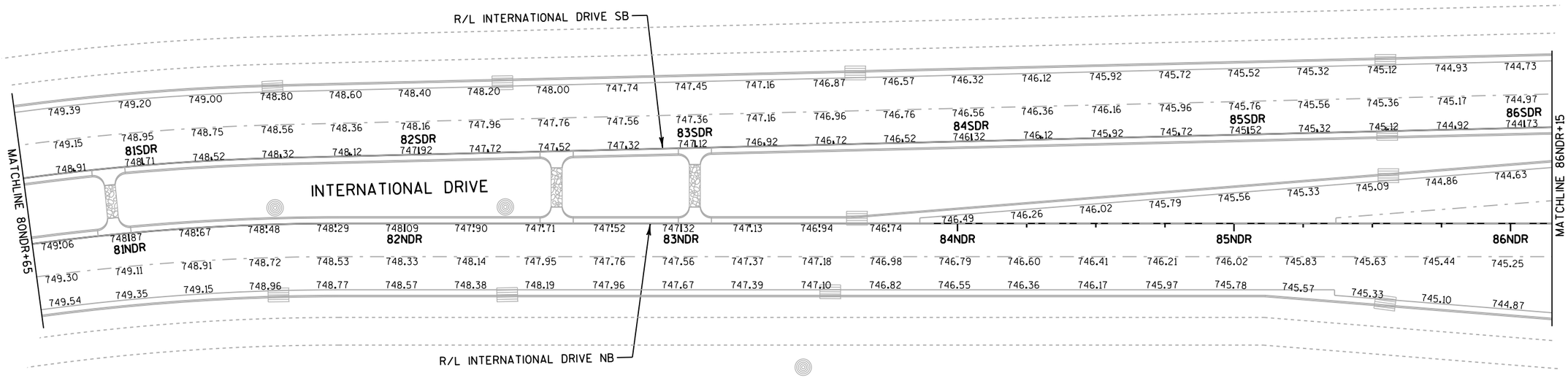


NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 50	E

2

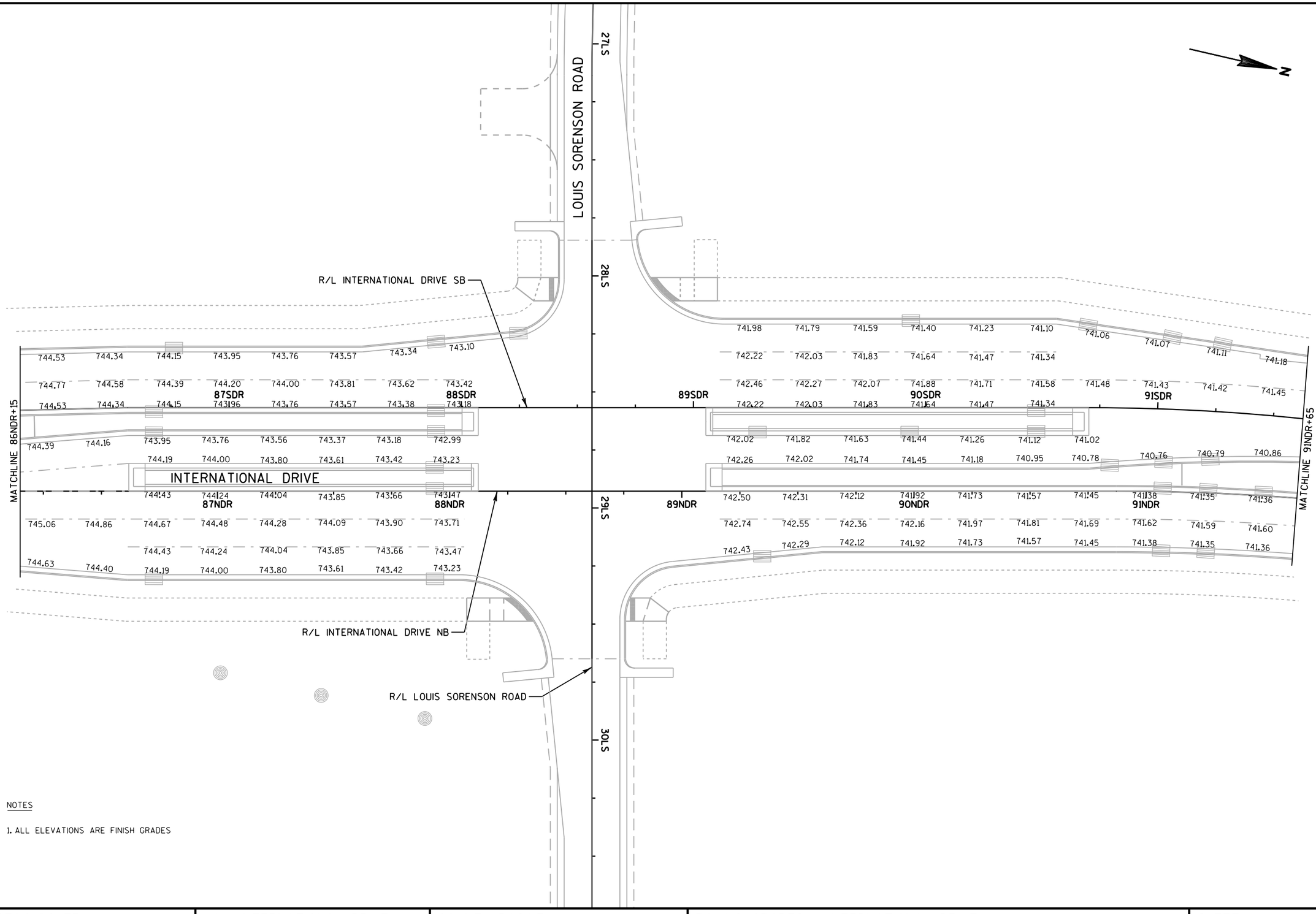


NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 51	E

2



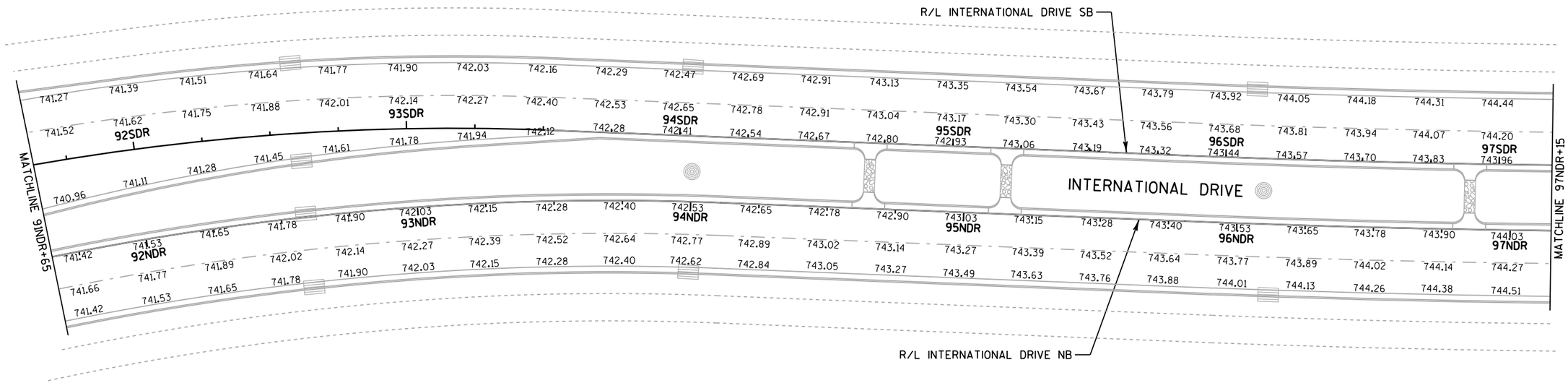
NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 52	E

2

N



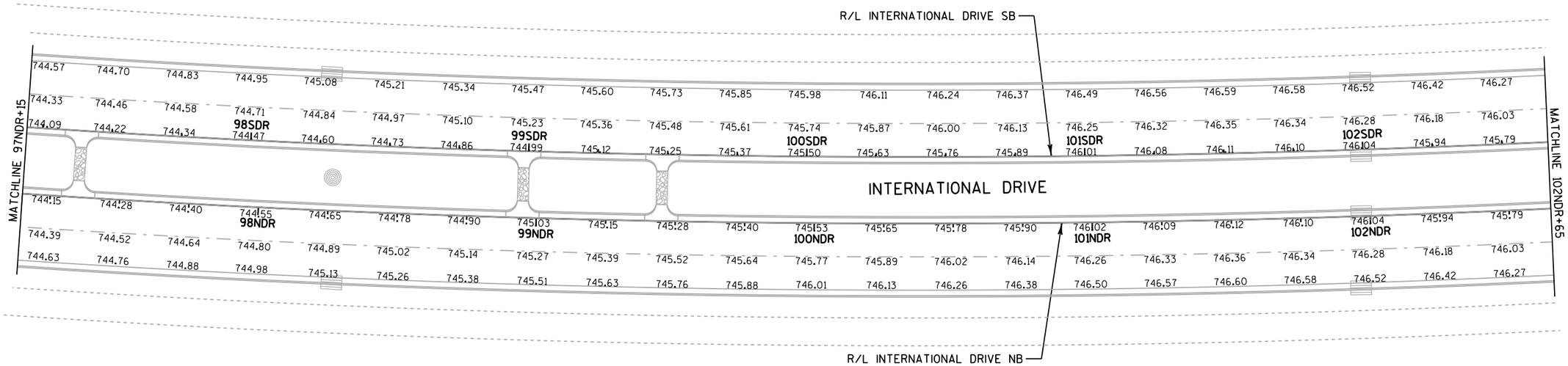
NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 53	E

2

N



NOTES

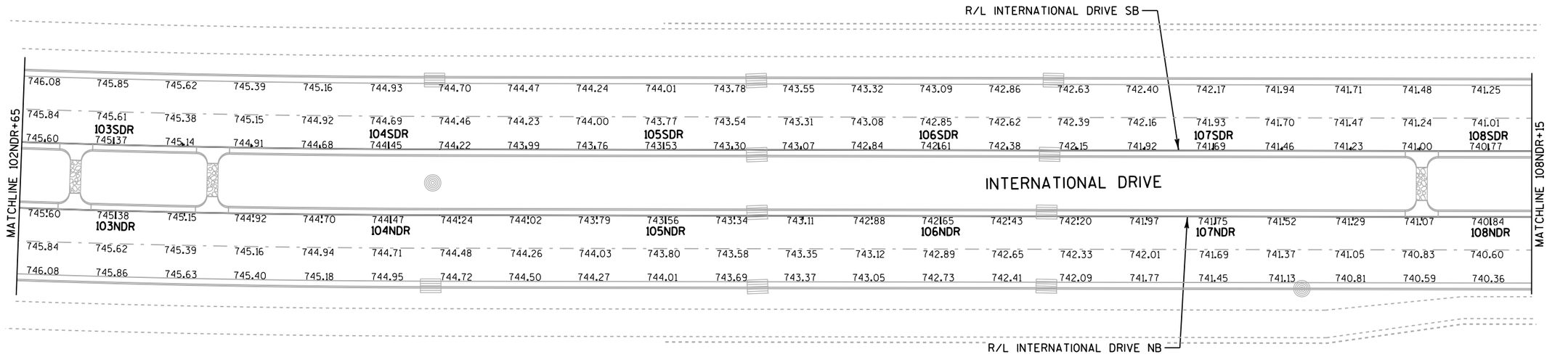
1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 54	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr EB.dgn PLOT DATE : 4/28/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

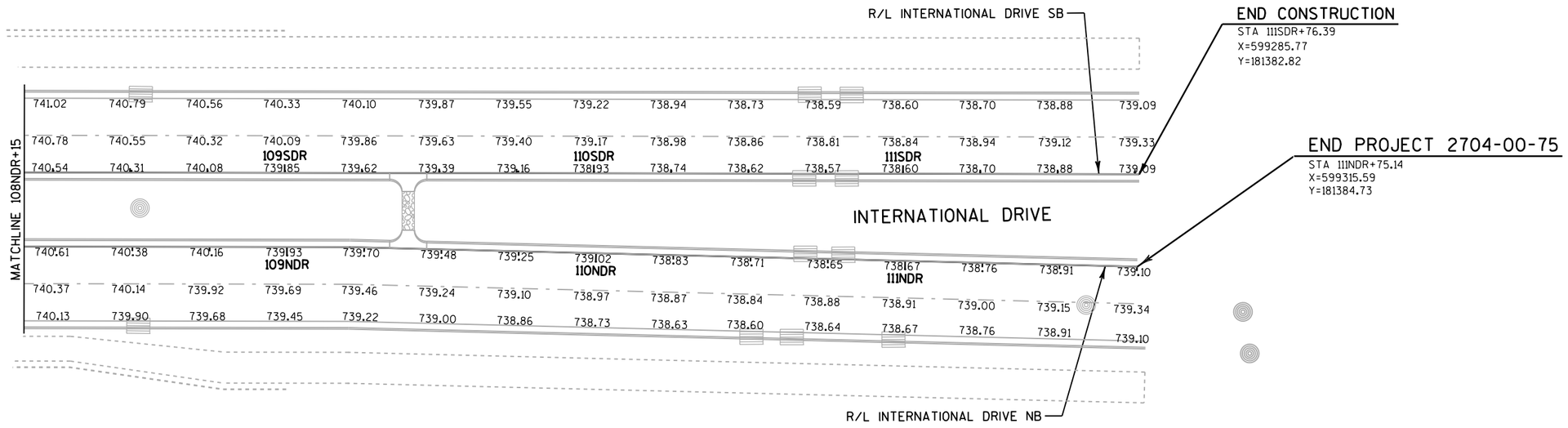


NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 55	E

2

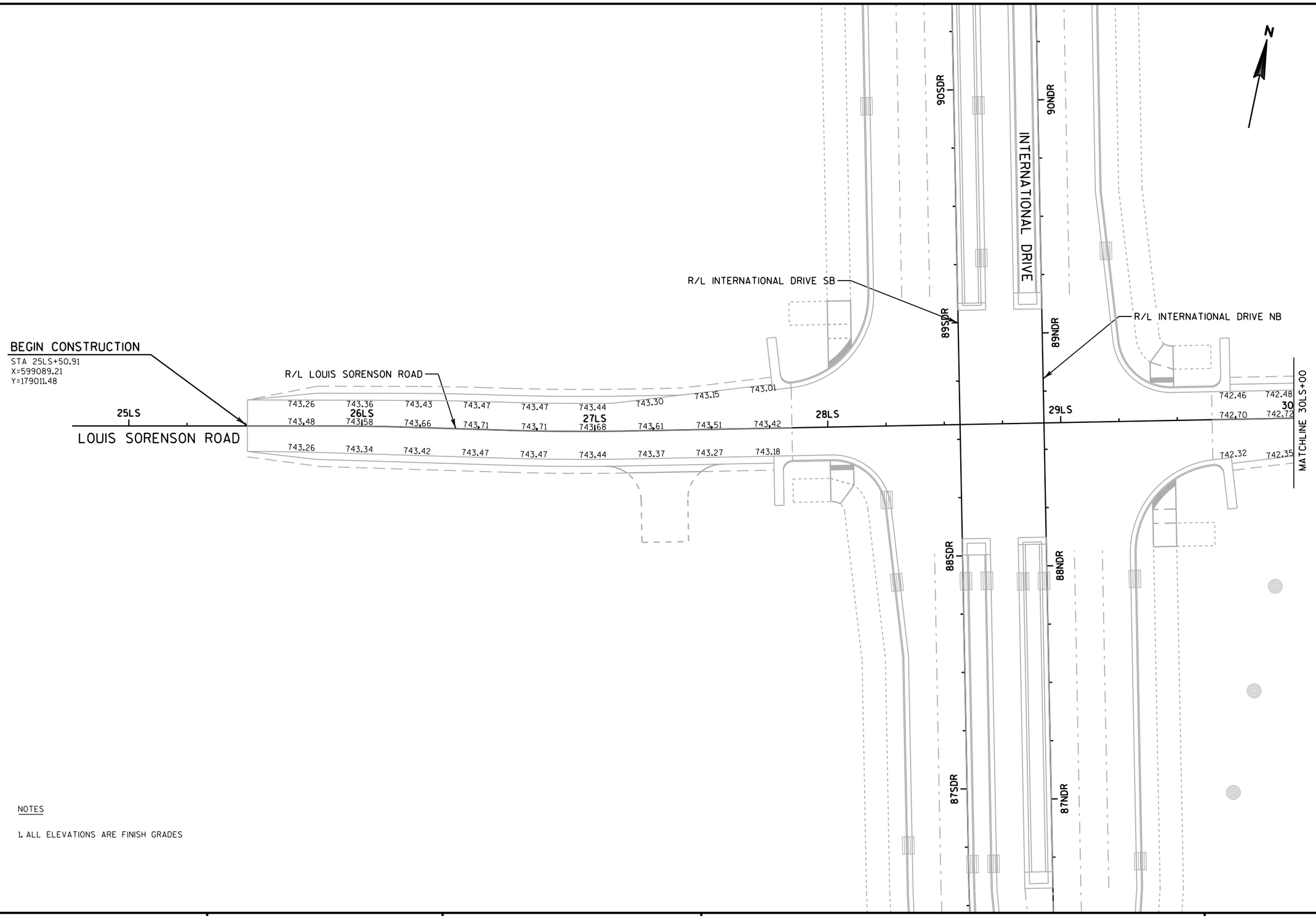


NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - INTERNATIONAL DRIVE	SHEET 56	E

2

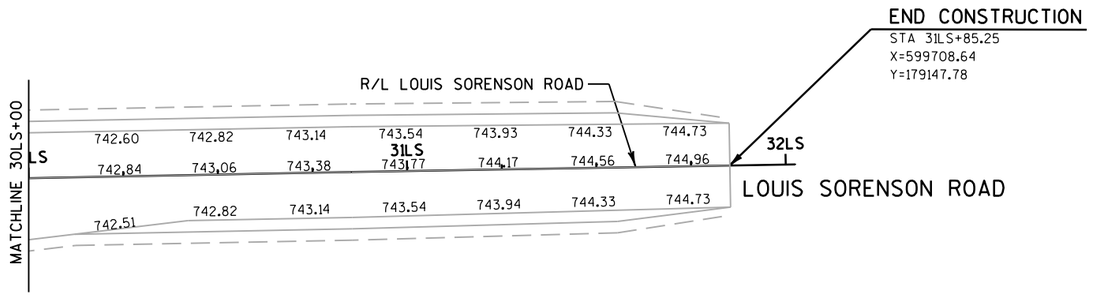


NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVING GRADES - LOUIS SORENSON ROAD	SHEET 57	E

2



NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO:2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY:RACINE	PAVING GRADES - LOUIS SORENSON ROAD	SHEET 58	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternatlLOU_DATE.dgn PLOT DATE = 4/28/2021 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

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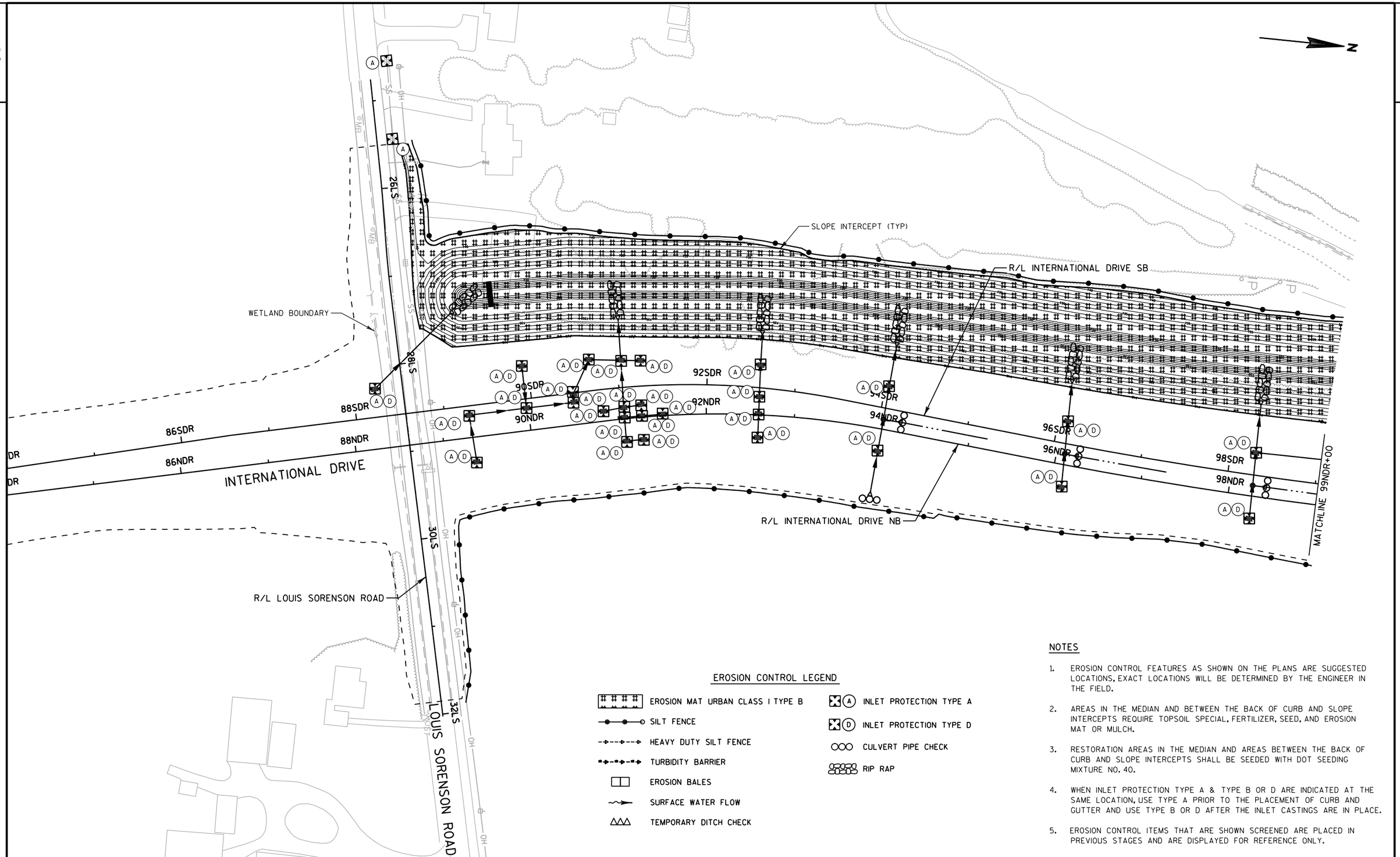


EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.
3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.
5. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	EROSION CONTROL - STAGE 1	SHEET 59	E

NOTES

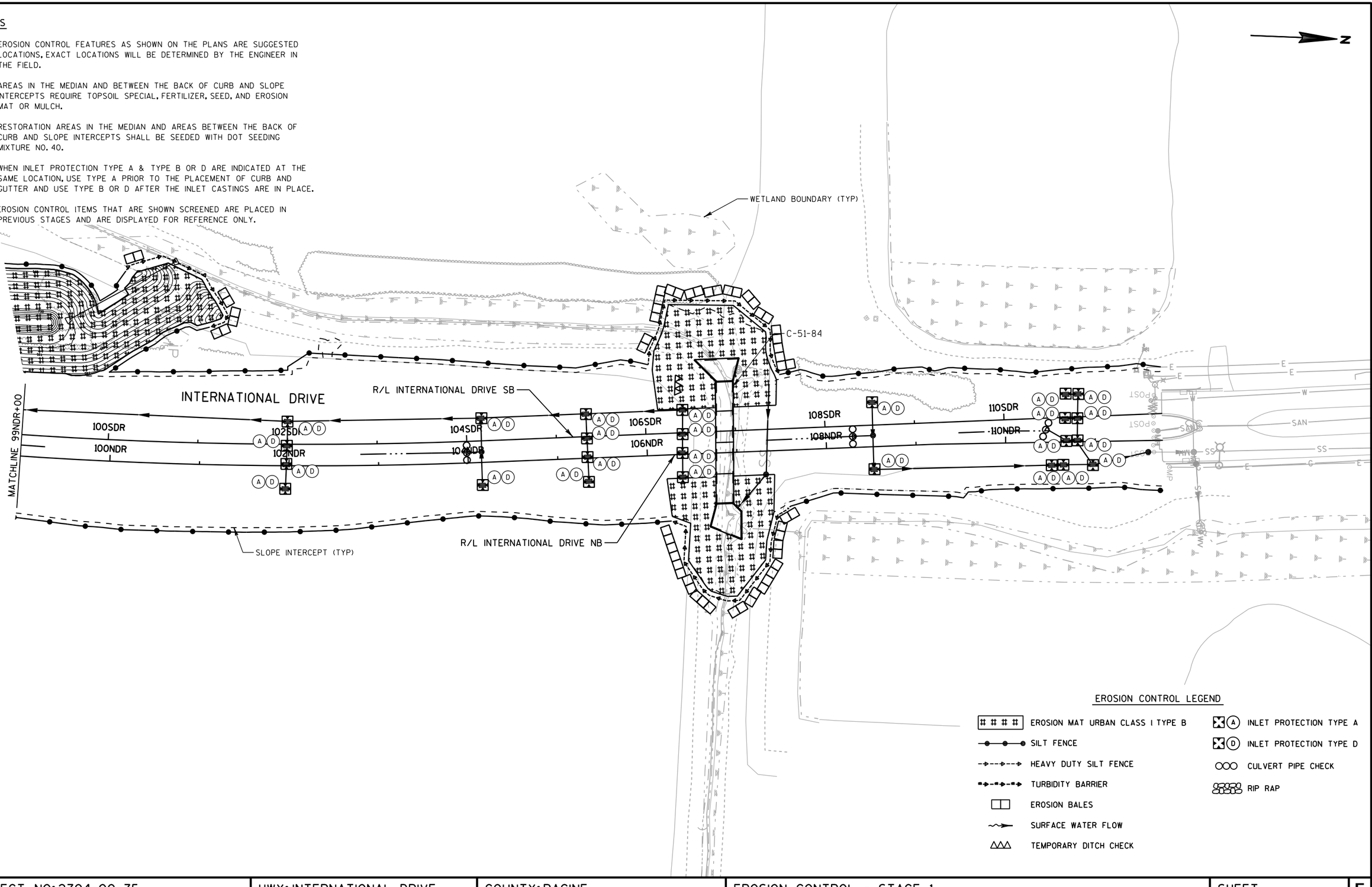
1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.

3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.

4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.

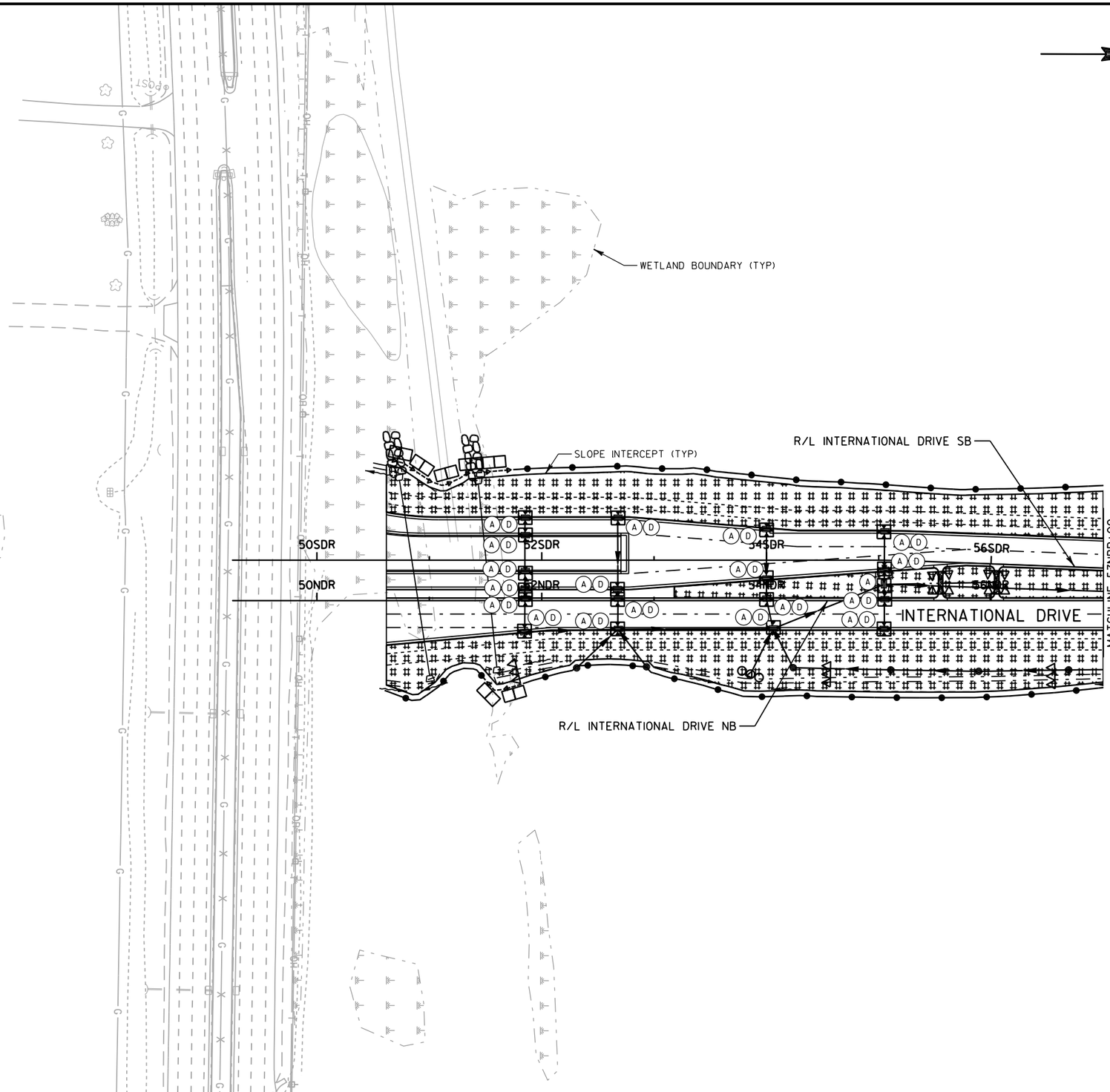
5. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	EROSION CONTROL - STAGE 1	SHEET 60	E

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.
3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.
5. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	EROSION CONTROL - STAGE 2	SHEET 61	E

2

NOTES

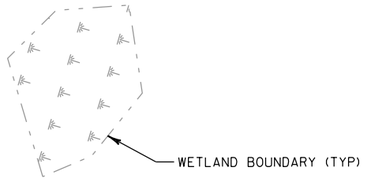
1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

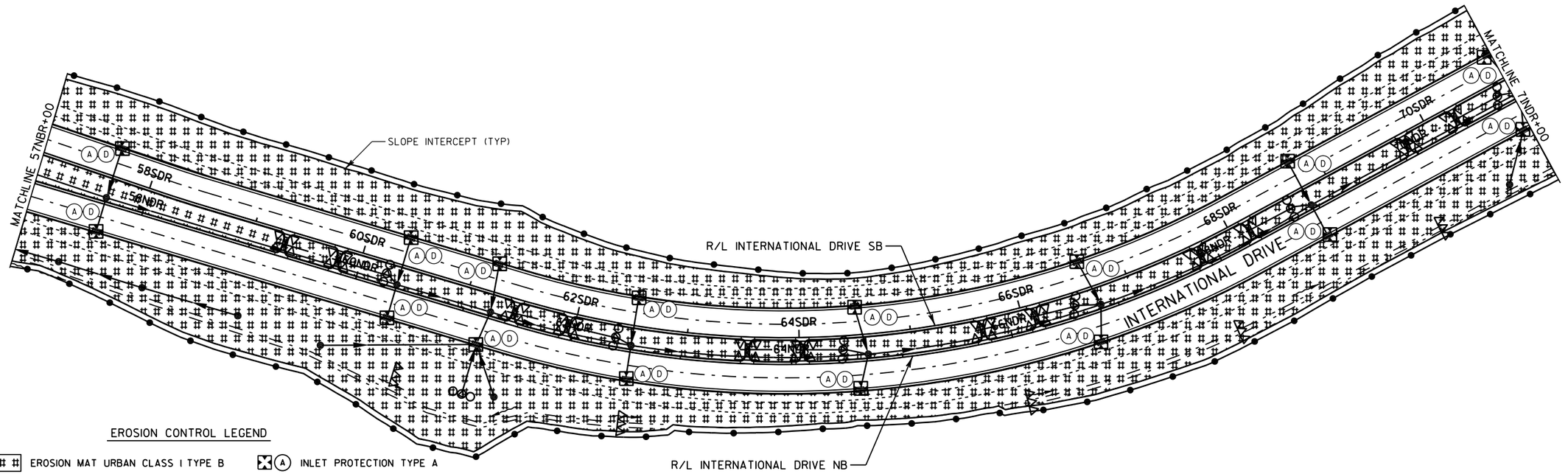
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.

3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.

4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.

5. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.





PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	EROSION CONTROL - STAGE 2	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\DATA\cads\4.2.2.2.1\ec_s2.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

NOTES

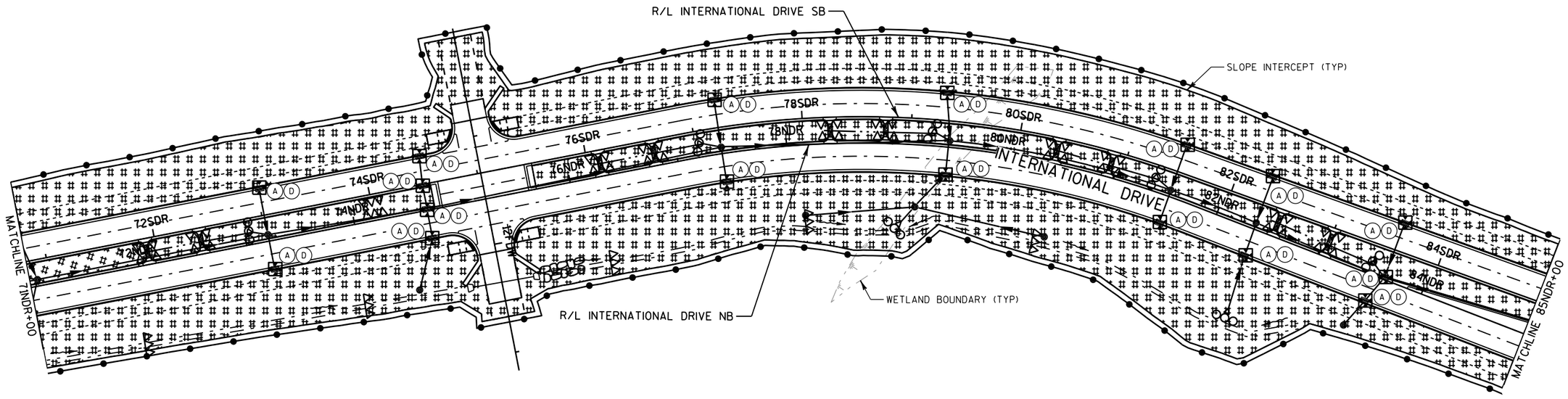
1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.

3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.

4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.

5. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

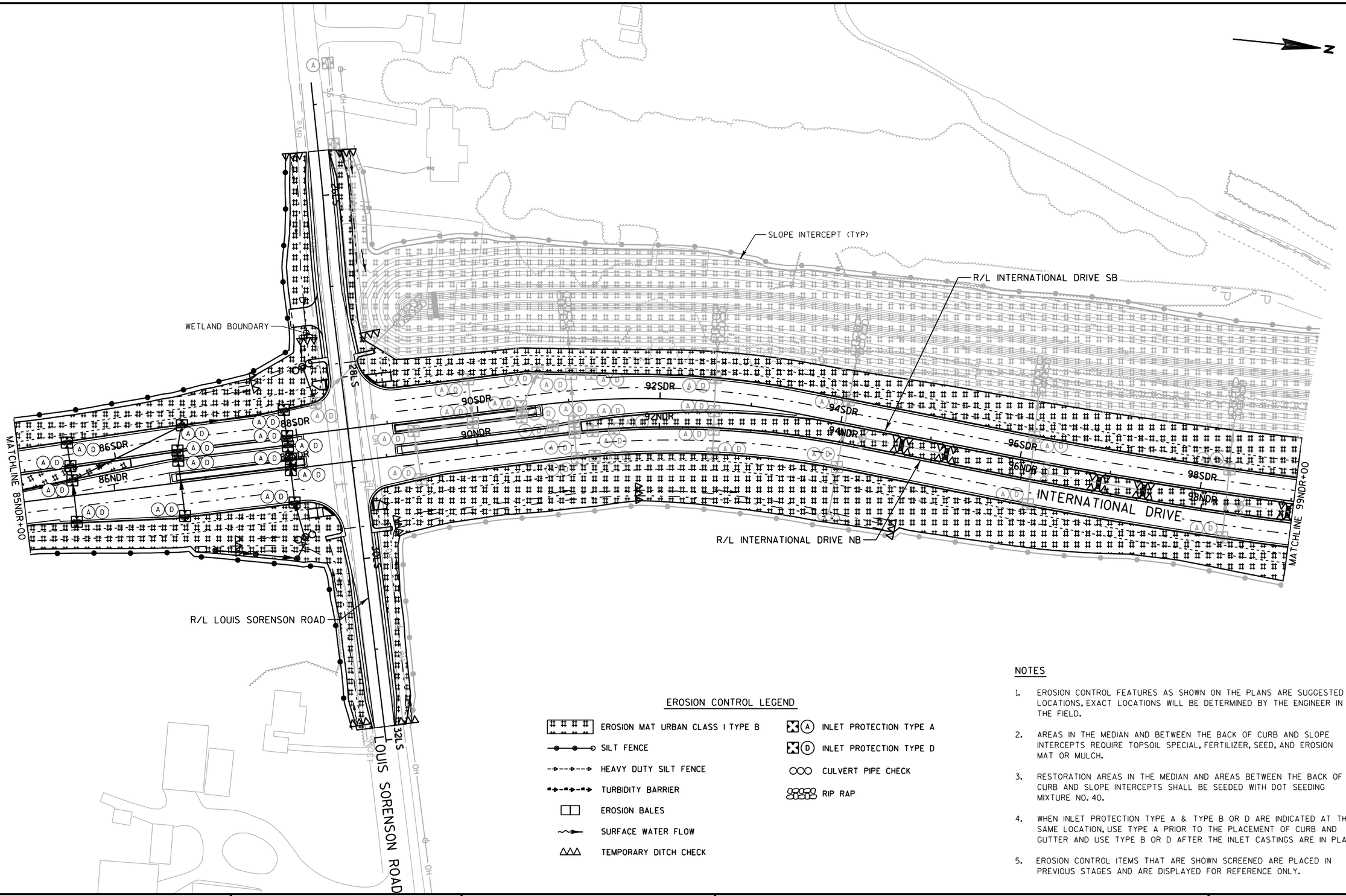


EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	EROSION CONTROL - STAGE 2	SHEET 63	E

2



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.
3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.
5. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RracINE	EROSION CONTROL - STAGE 2	SHEET 64	E

NOTES

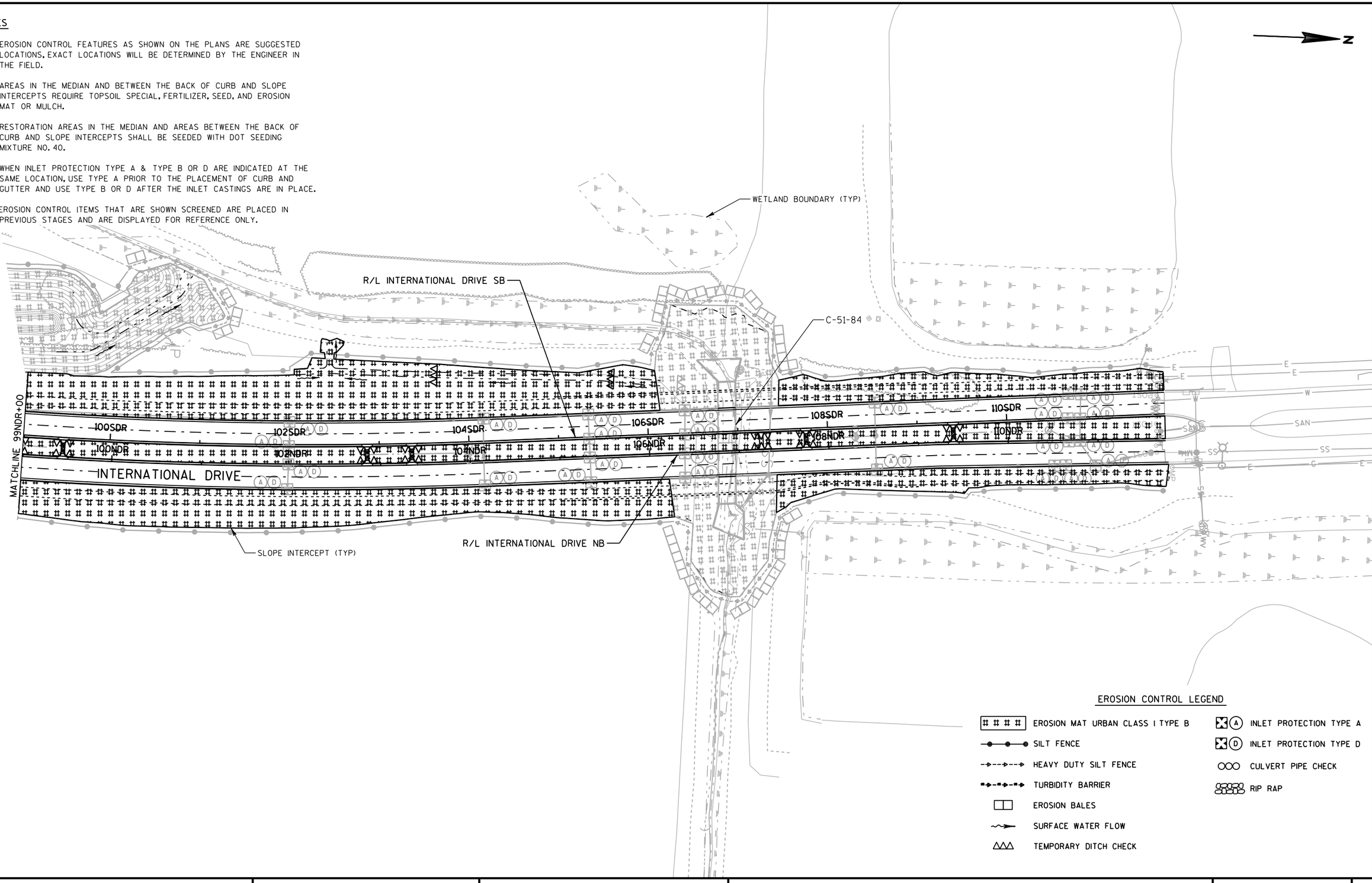
1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.

3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.

4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.

5. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

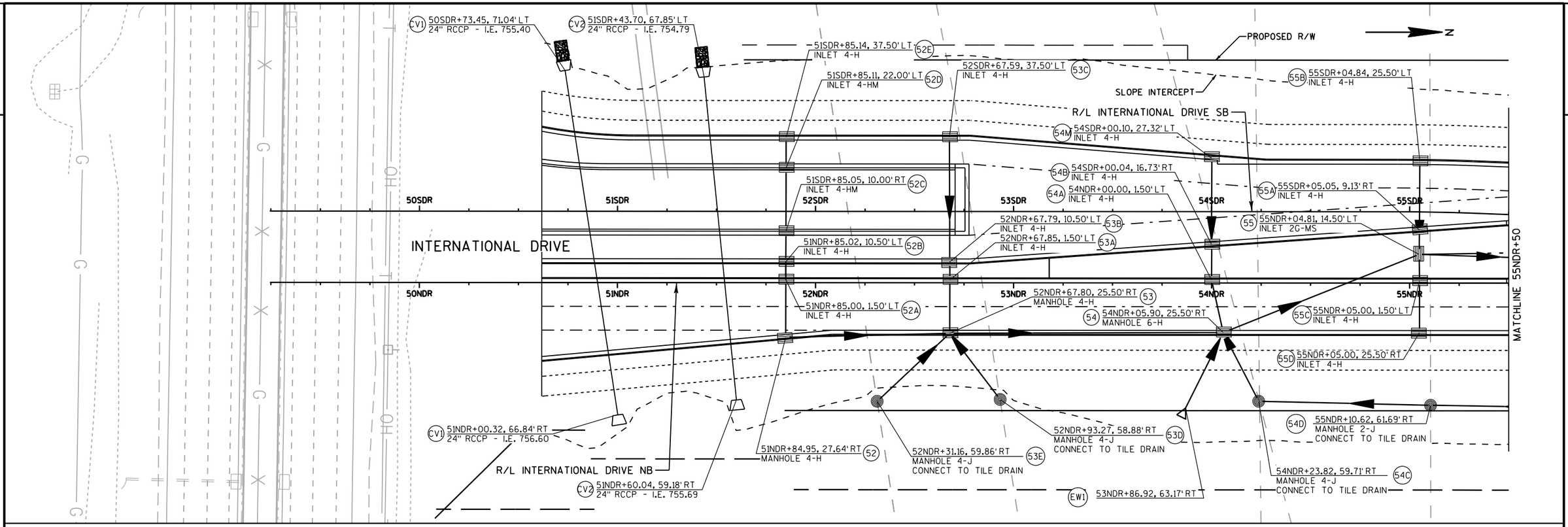


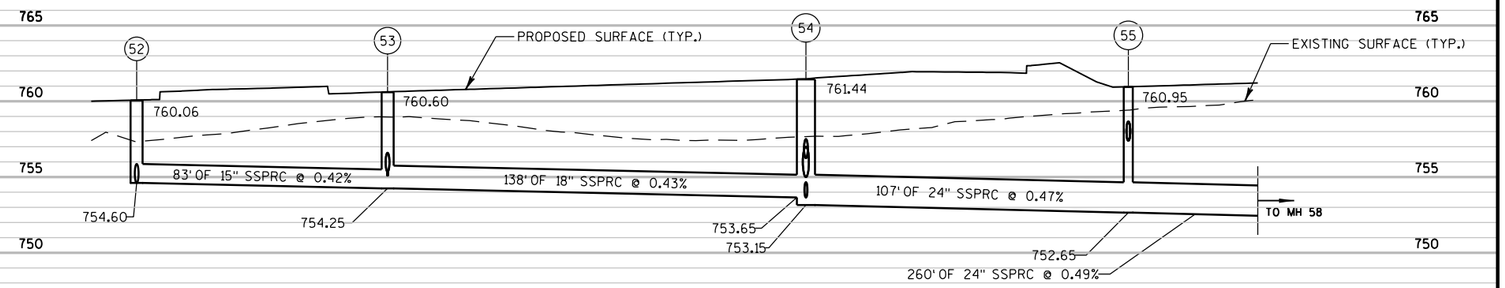
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	EROSION CONTROL - STAGE 2	SHEET 65	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr 01 ATEcds 4022261 ec_s2.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

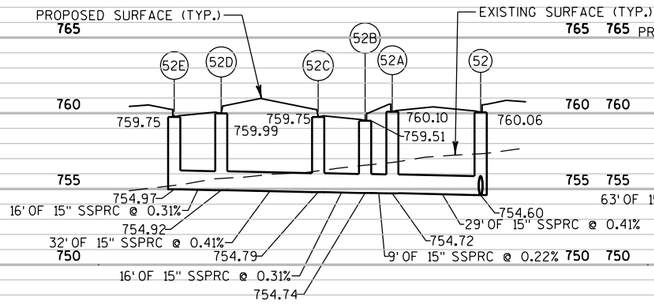
2

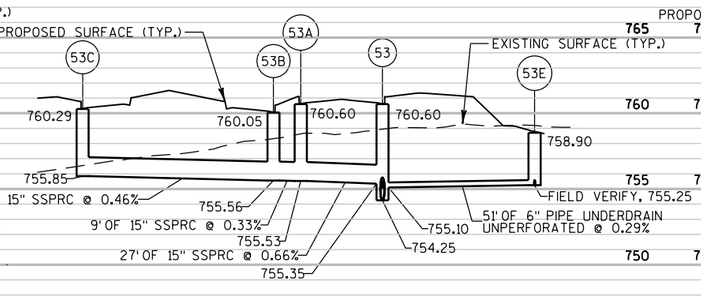


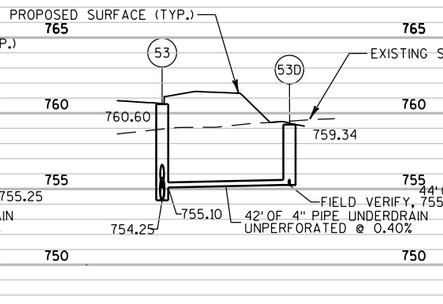


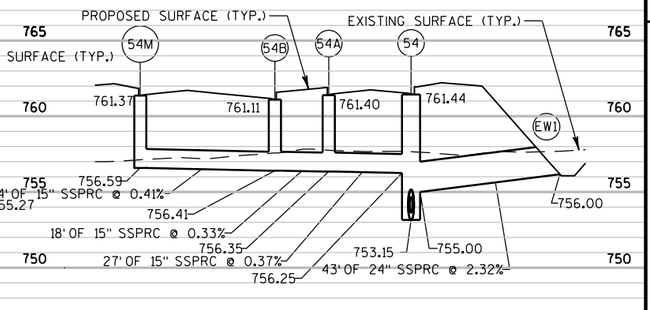
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET	E

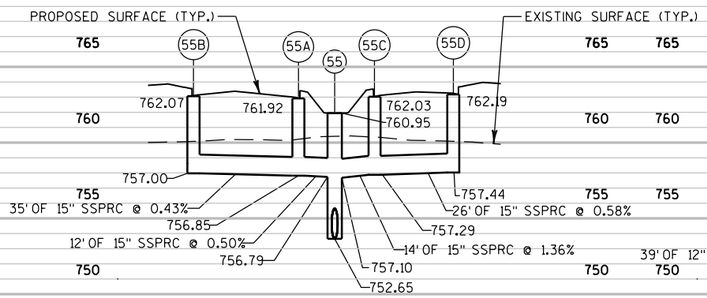
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalDrive\Cadd\4.2.8.2_INTERNATIONAL_PLOT.dgn PLOTTED BY : apatek PLOT NAME : PLOT SCALE : 50:1
WISDOT/CADDS SHEET 42

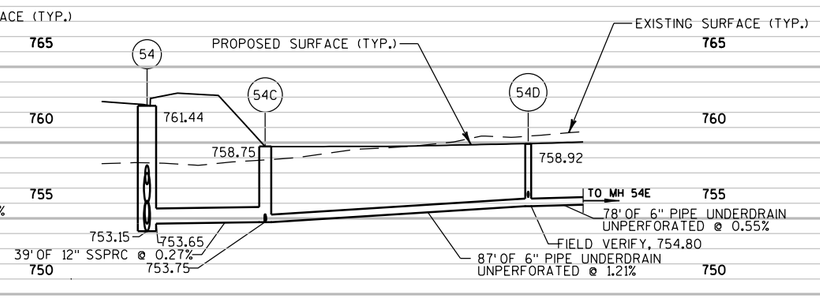


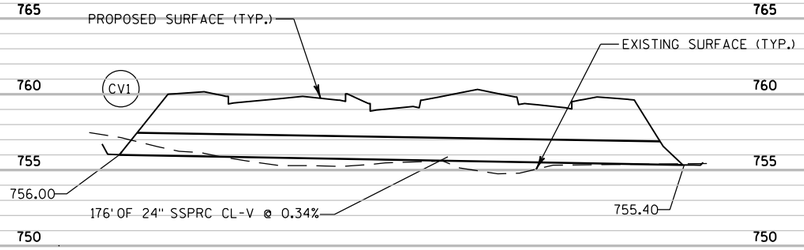


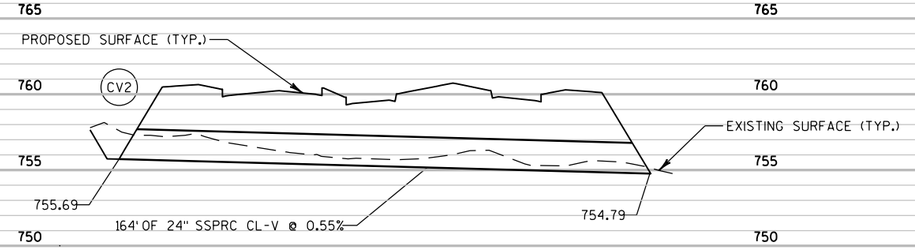






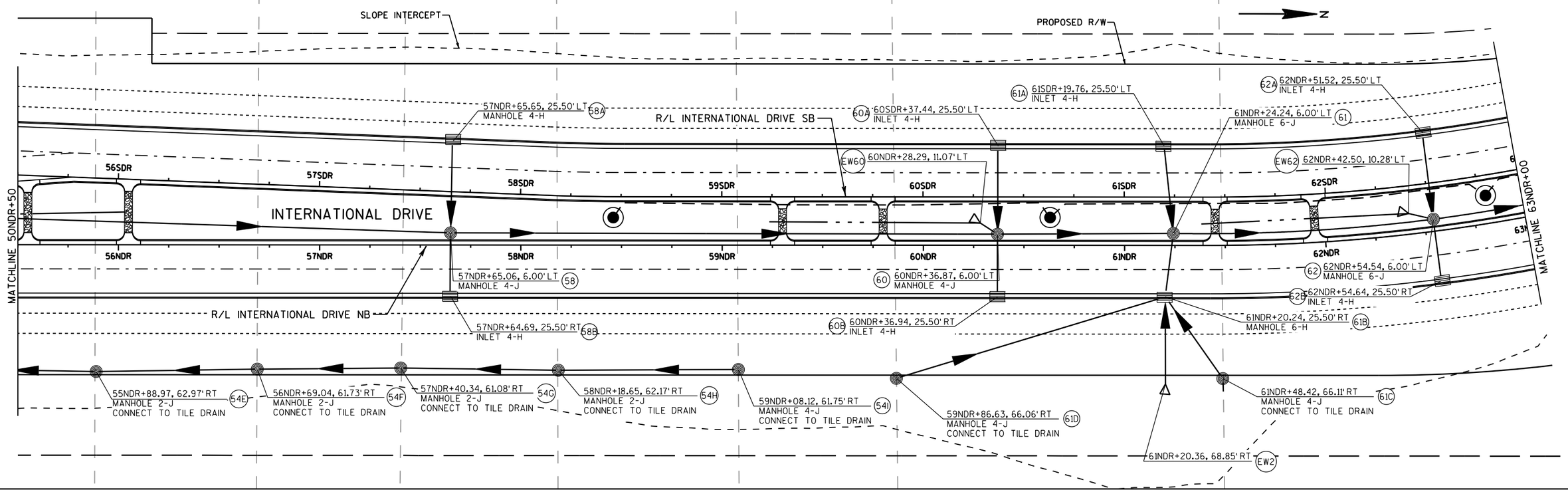


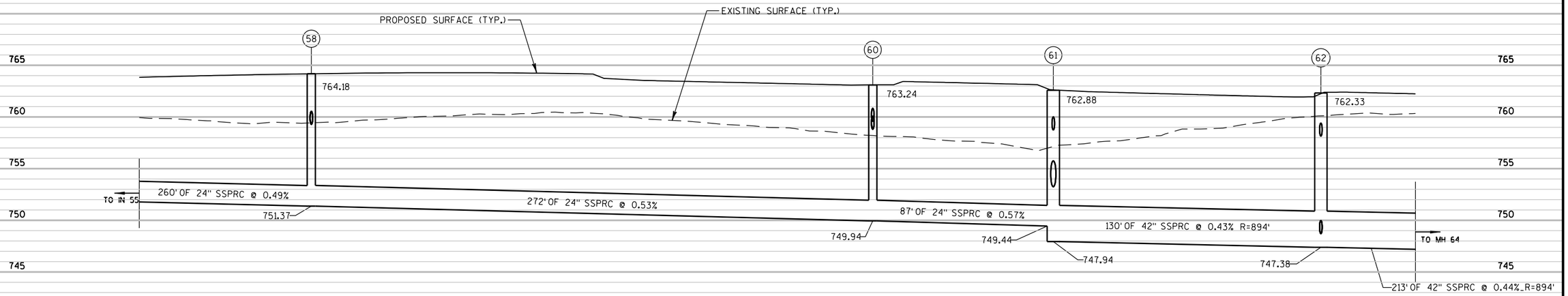




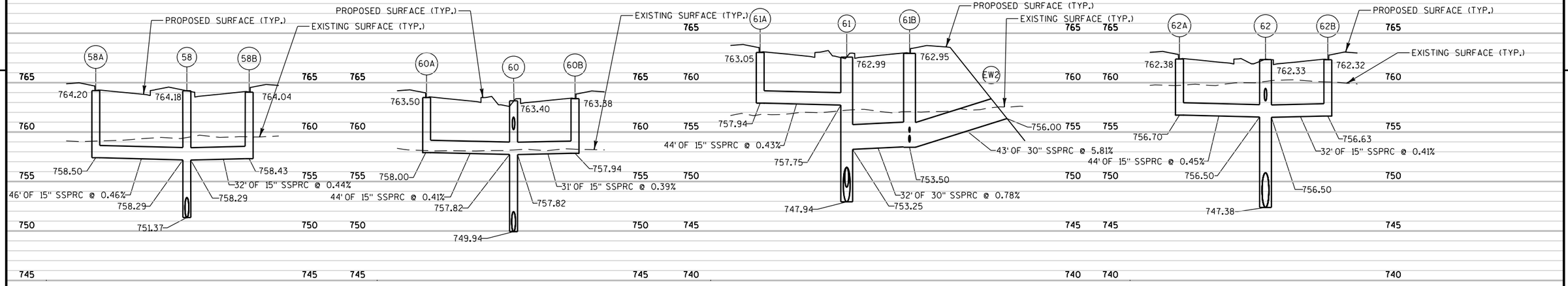
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE PROFILES	SHEET 67	E

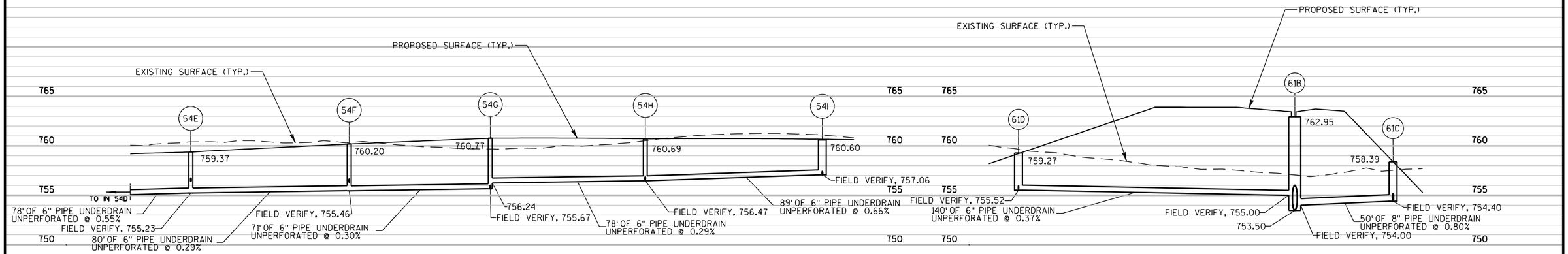
2





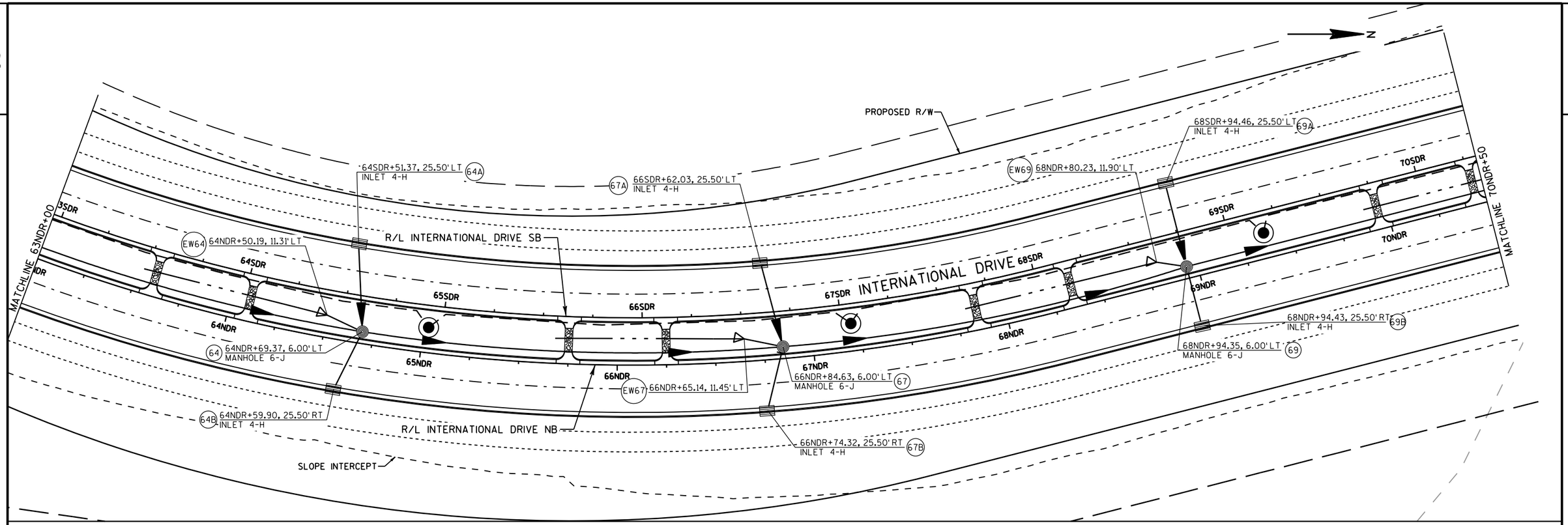
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET 68	E

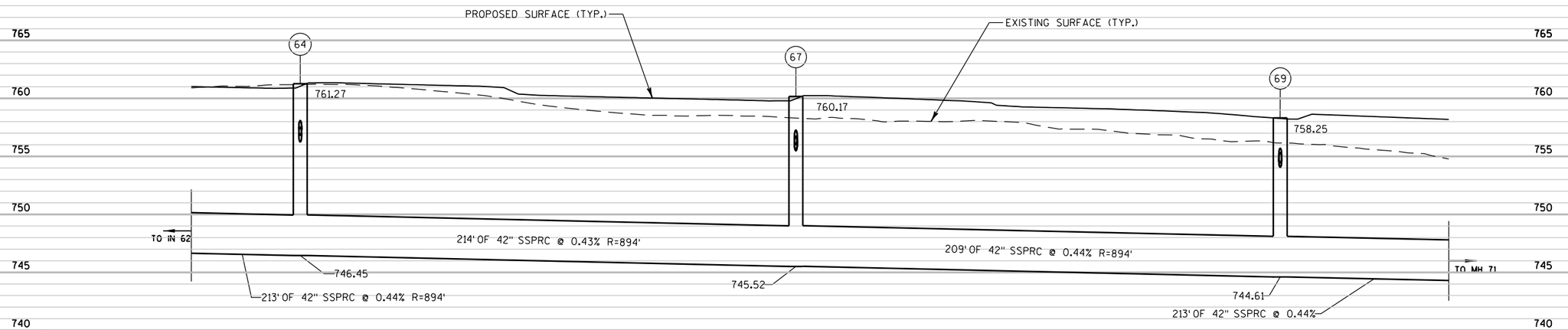




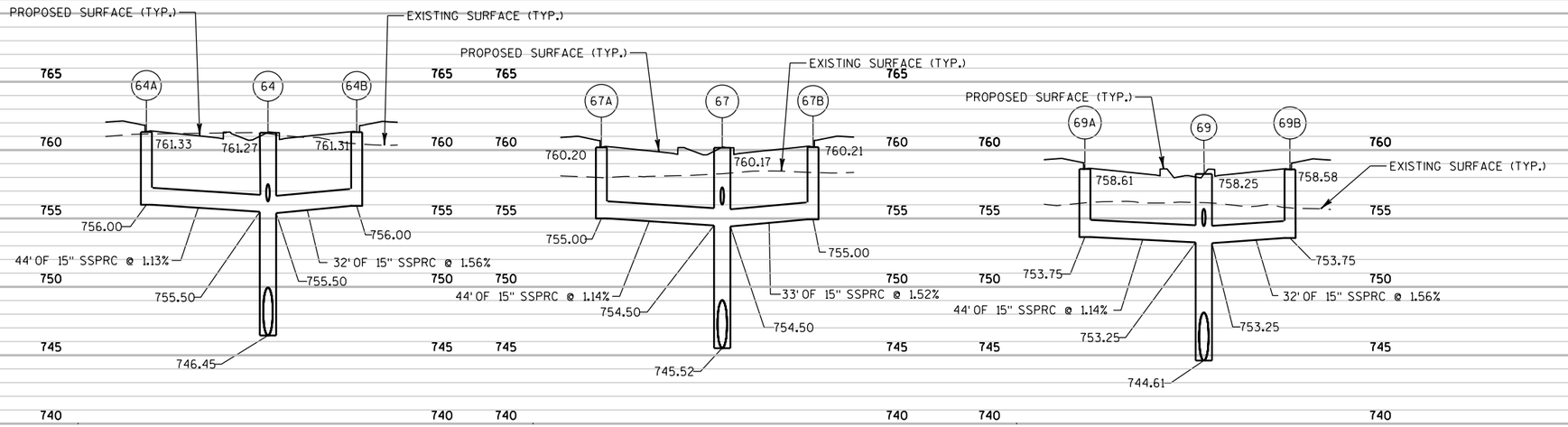
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE PROFILES	SHEET 69	E

2





PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET 70	E



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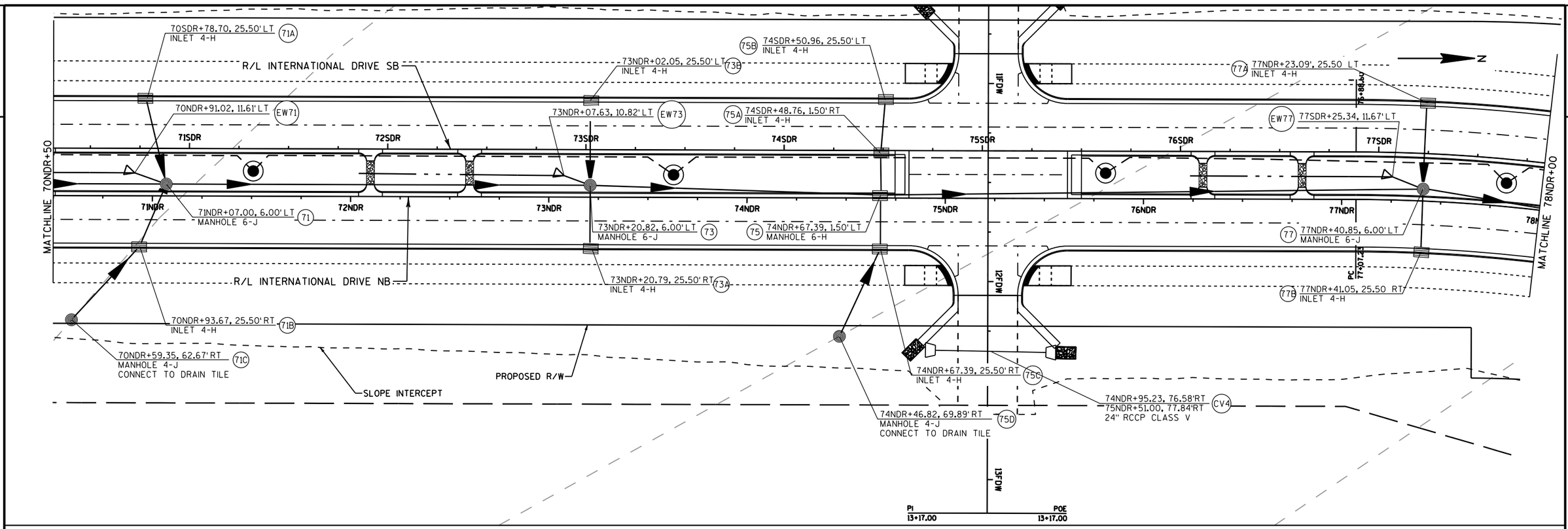
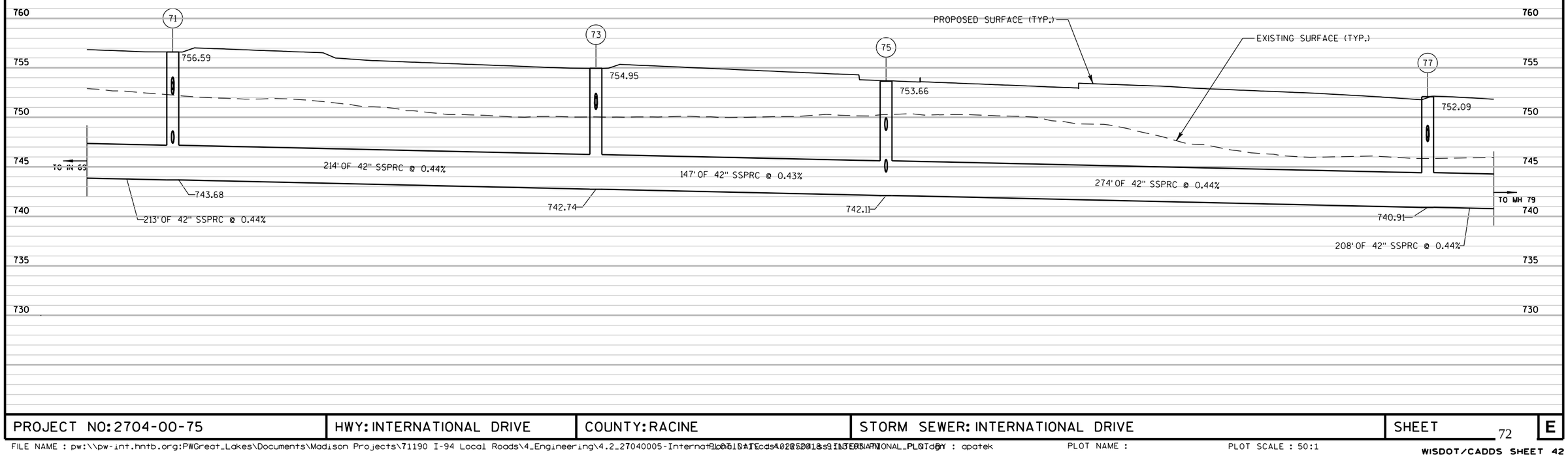
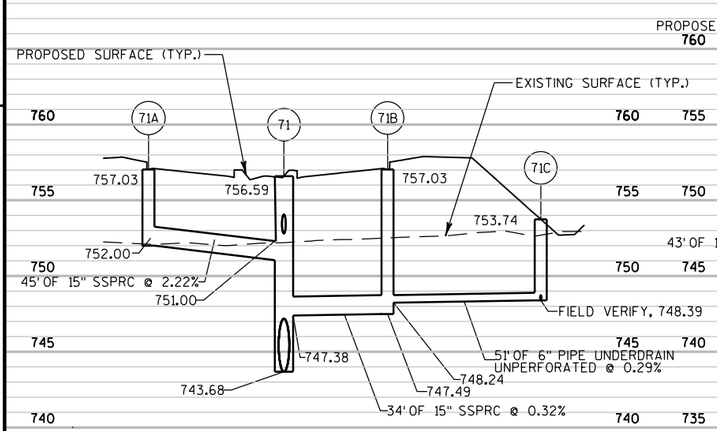
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE PROFILES	SHEET 71	E

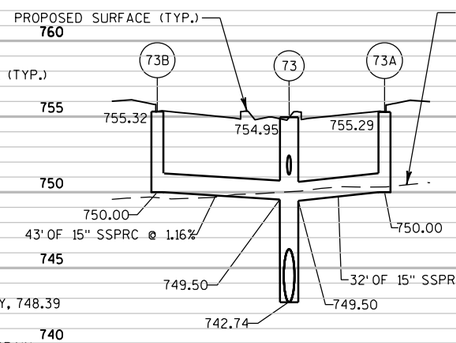
2

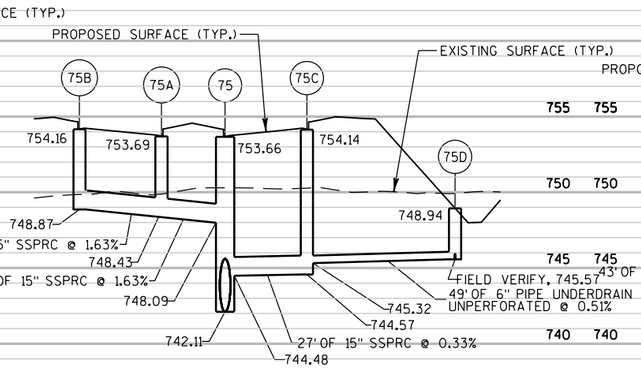


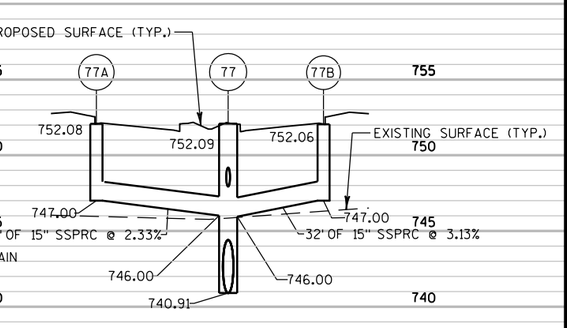


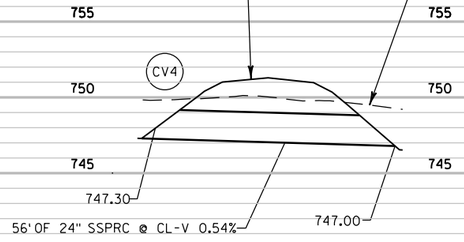
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET 72	E







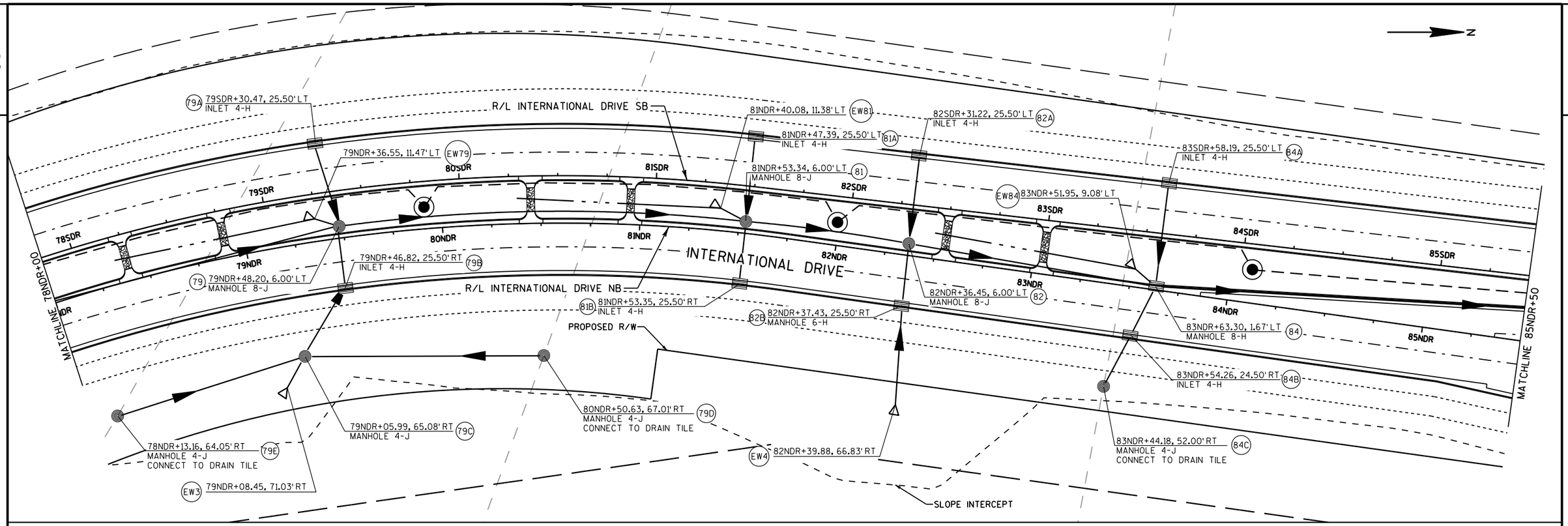


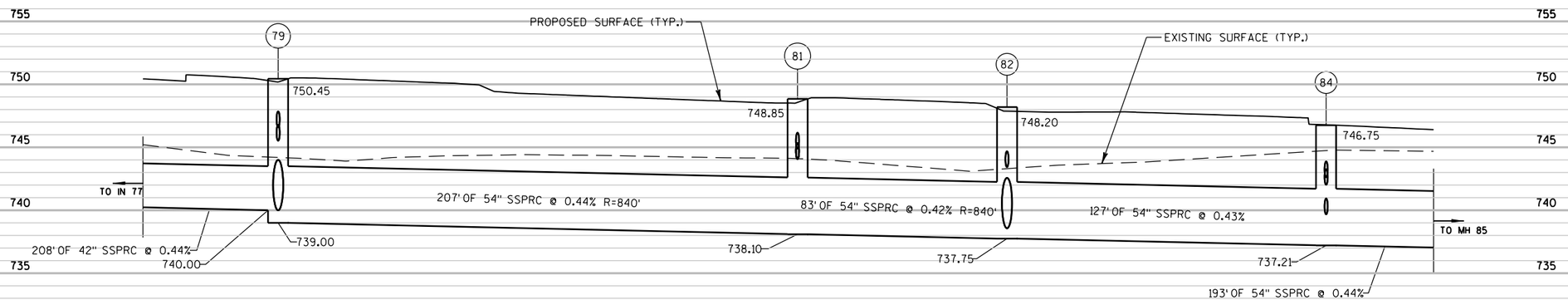


2

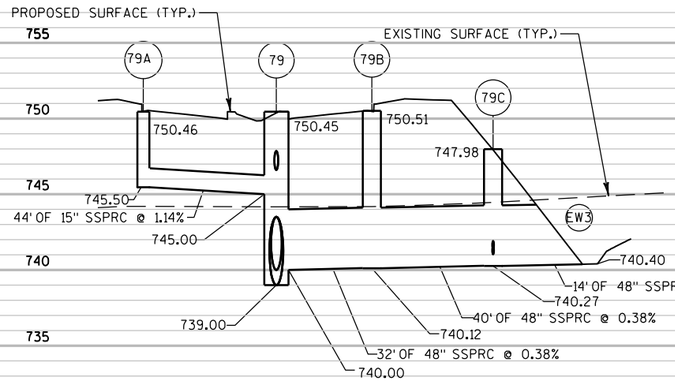
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE PROFILES	SHEET 73	E

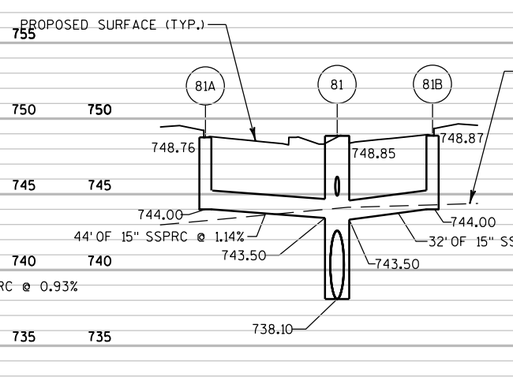
2

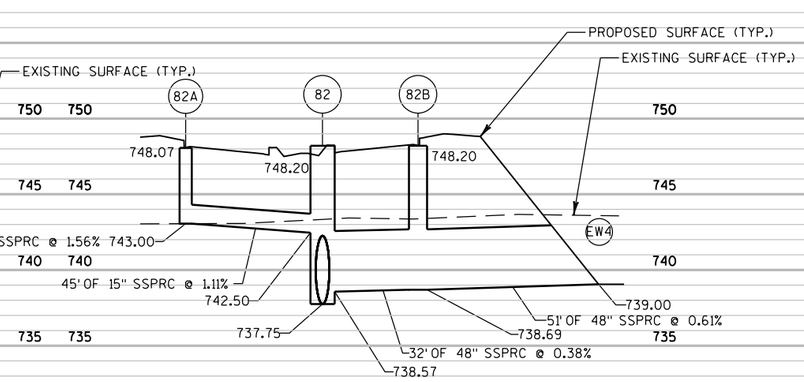


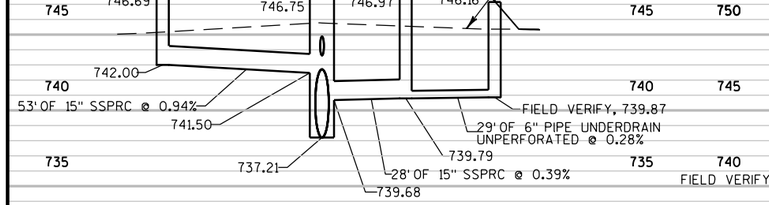


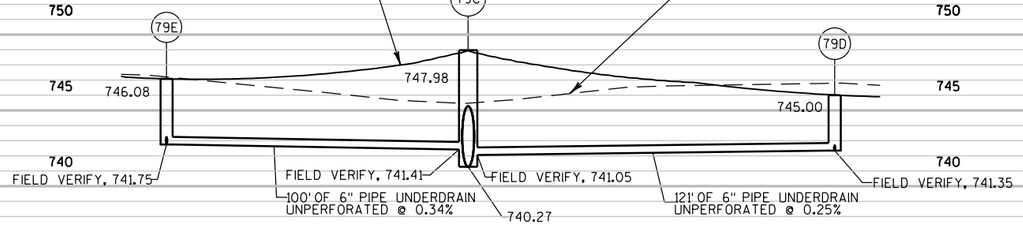
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET 74	E





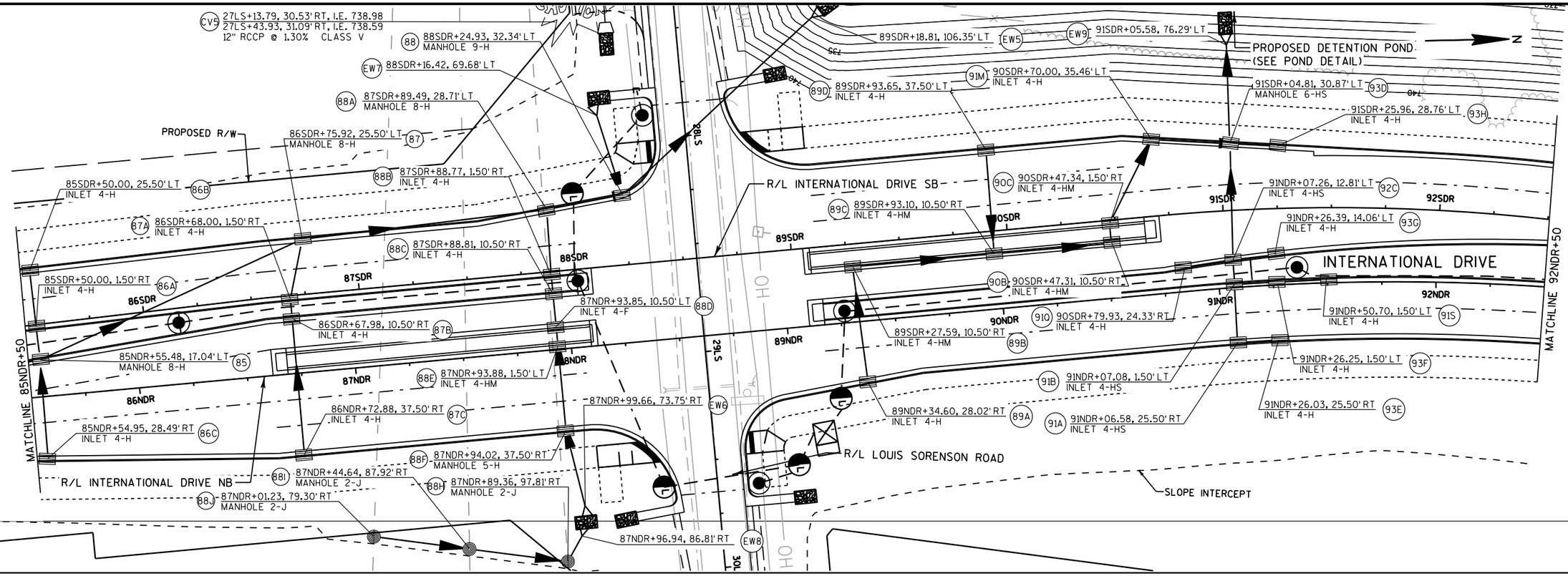


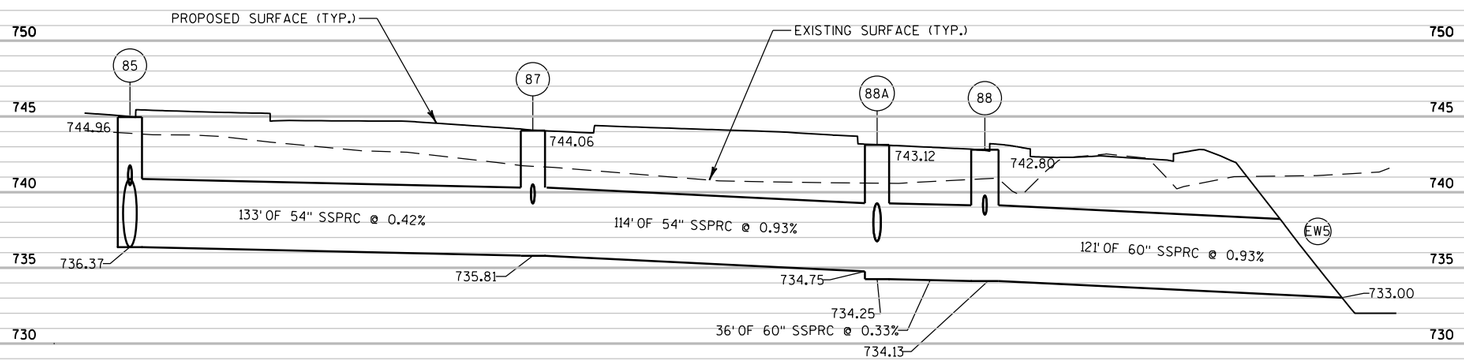




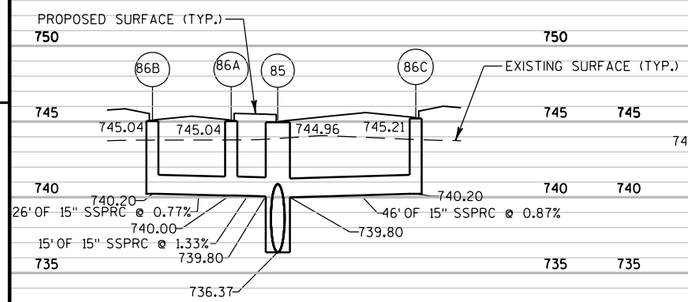
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE PROFILES	SHEET 75	E

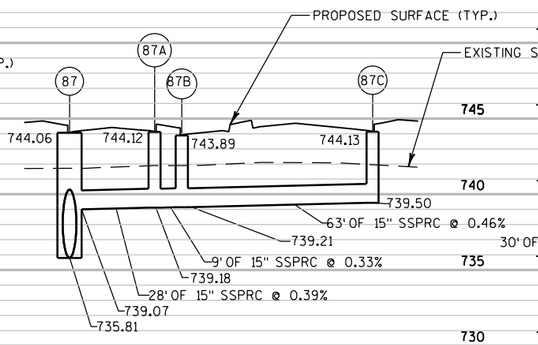
2

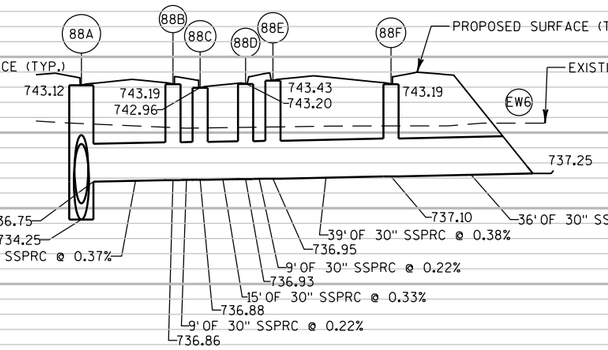


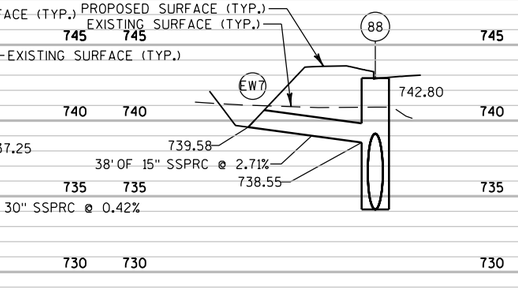


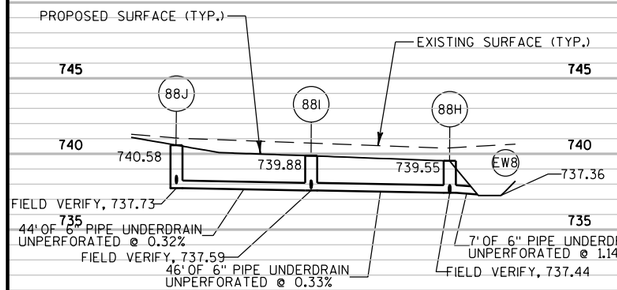
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET	E

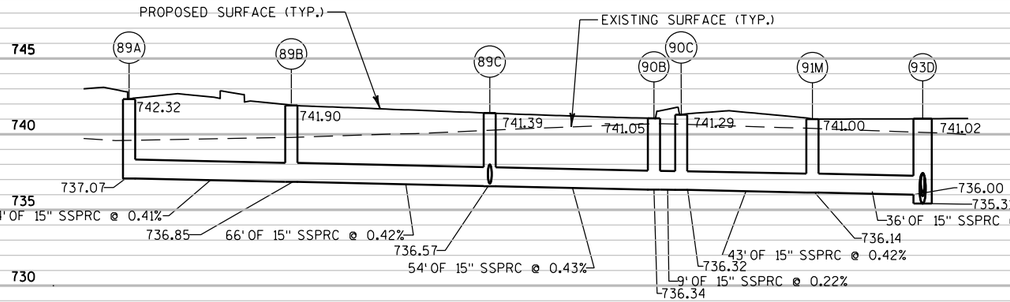

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
86B
86A
85
86C
745.04
745.04
744.96
745.21
740.20
740.20
26' OF 15" SSPRC @ 0.77%
740.00
15' OF 15" SSPRC @ 1.33%
739.80
739.80
46' OF 15" SSPRC @ 0.87%
736.37

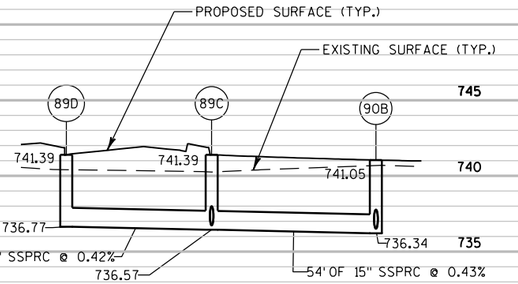

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
87
87A
87B
87C
744.06
744.12
743.89
744.13
739.50
63' OF 15" SSPRC @ 0.46%
739.21
9' OF 15" SSPRC @ 0.33%
739.18
28' OF 15" SSPRC @ 0.39%
739.07
735.81

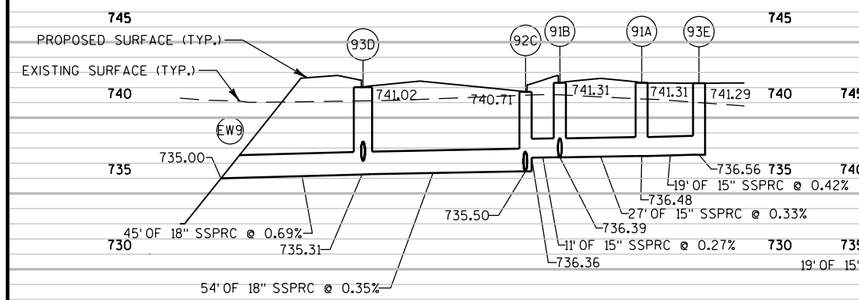

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
88A
88B
88C
88D
88E
88F
743.12
743.19
742.96
743.43
743.20
743.19
737.25
EW6
736.75
734.25
30' OF 30" SSPRC @ 0.37%
737.10
36' OF 30" SSPRC @ 0.42%
39' OF 30" SSPRC @ 0.38%
736.95
9' OF 30" SSPRC @ 0.22%
736.93
15' OF 30" SSPRC @ 0.33%
736.88
9' OF 30" SSPRC @ 0.22%
736.86

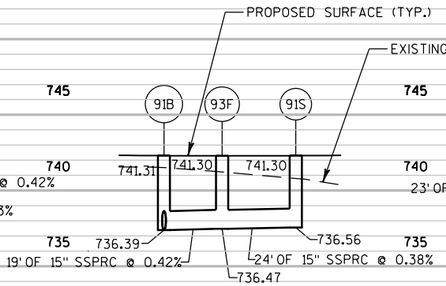

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
88
EW7
742.80
739.58
38' OF 15" SSPRC @ 2.71%
738.55

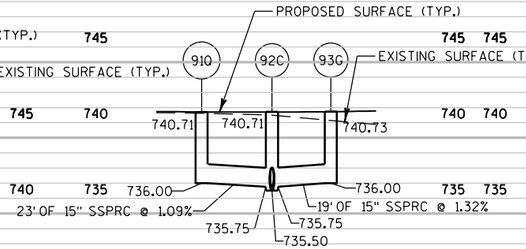

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
88J
88I
88H
740.58
739.88
739.55
EW8
737.36
FIELD VERIFY, 737.73
44' OF 6" PIPE UNDERDRAIN
UNPERFORATED @ 0.32%
FIELD VERIFY, 737.59
46' OF 6" PIPE UNDERDRAIN
UNPERFORATED @ 0.33%
7' OF 6" PIPE UNDERDRAIN
UNPERFORATED @ 1.14%
FIELD VERIFY, 737.44

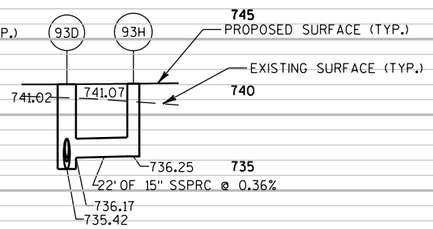

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
89A
89B
89C
90B
90C
91M
93D
742.32
741.90
741.39
741.05
741.29
741.00
741.02
737.07
736.00
735.31
54' OF 15" SSPRC @ 0.41%
736.85
66' OF 15" SSPRC @ 0.42%
736.57
54' OF 15" SSPRC @ 0.43%
736.14
36' OF 15" SSPRC @ 0.39%
736.32
43' OF 15" SSPRC @ 0.42%
9' OF 15" SSPRC @ 0.22%
736.34

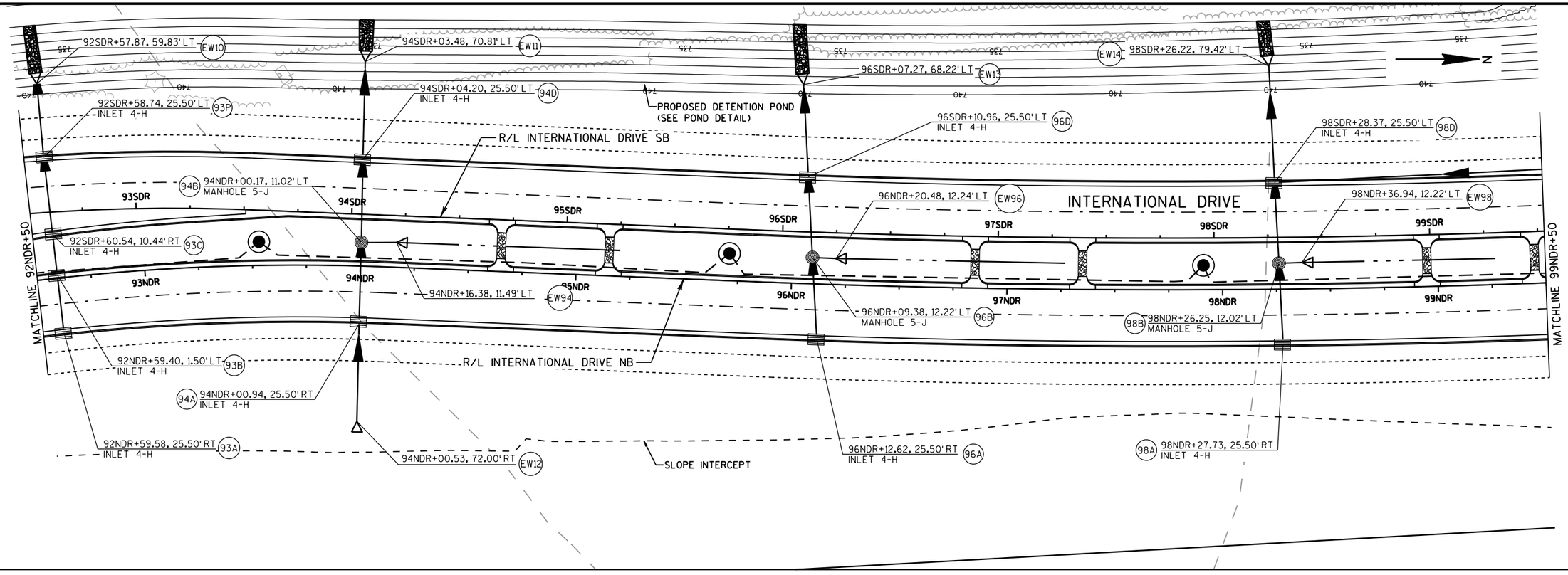

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
89D
89C
90B
741.39
741.39
741.05
736.77
736.34
48' OF 15" SSPRC @ 0.42%
736.57
54' OF 15" SSPRC @ 0.43%

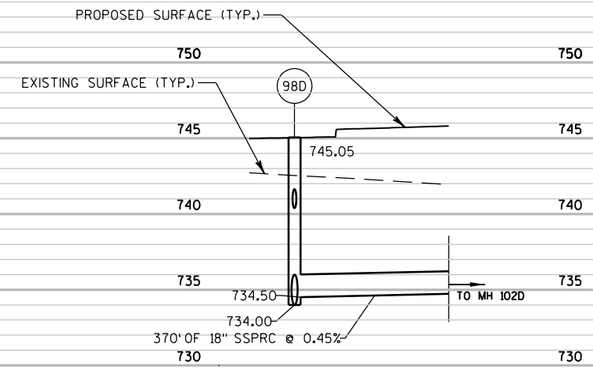

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
93D
92C
91B
91A
93E
741.02
740.71
741.31
741.31
741.29
EW9
735.00
736.56
19' OF 15" SSPRC @ 0.42%
736.48
27' OF 15" SSPRC @ 0.33%
735.50
736.39
11' OF 15" SSPRC @ 0.27%
736.36
45' OF 18" SSPRC @ 0.69%
735.31
54' OF 18" SSPRC @ 0.35%


PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
91B
93F
91S
741.31
741.30
741.30
736.39
736.56
19' OF 15" SSPRC @ 0.42%
24' OF 15" SSPRC @ 0.38%
736.47

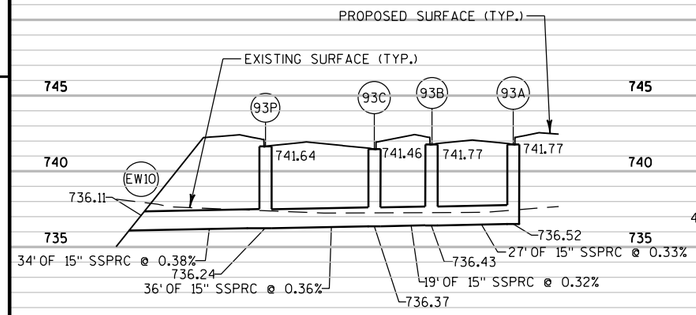

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
910
92C
93G
740.71
740.71
740.73
736.00
736.00
23' OF 15" SSPRC @ 1.09%
19' OF 15" SSPRC @ 1.32%
735.75
735.75
735.50

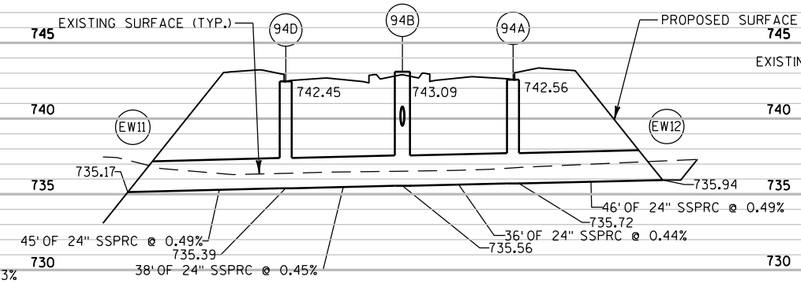

PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
93D
93H
741.02
741.07
736.25
22' OF 15" SSPRC @ 0.36%
736.17
735.42

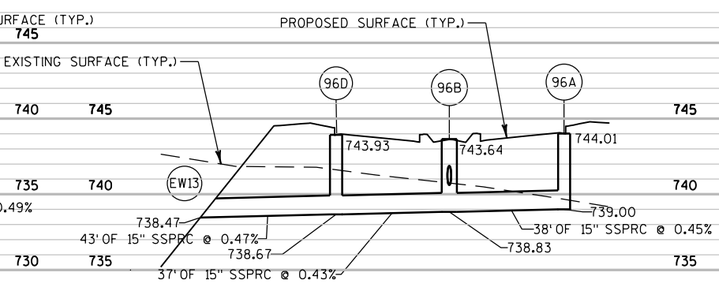


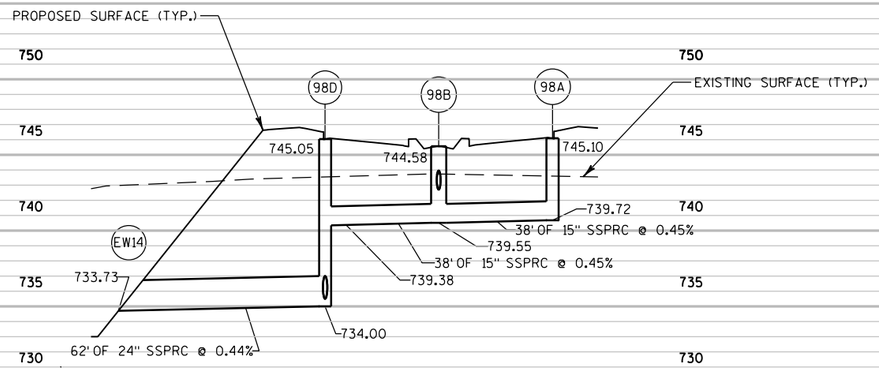


PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET 78	E



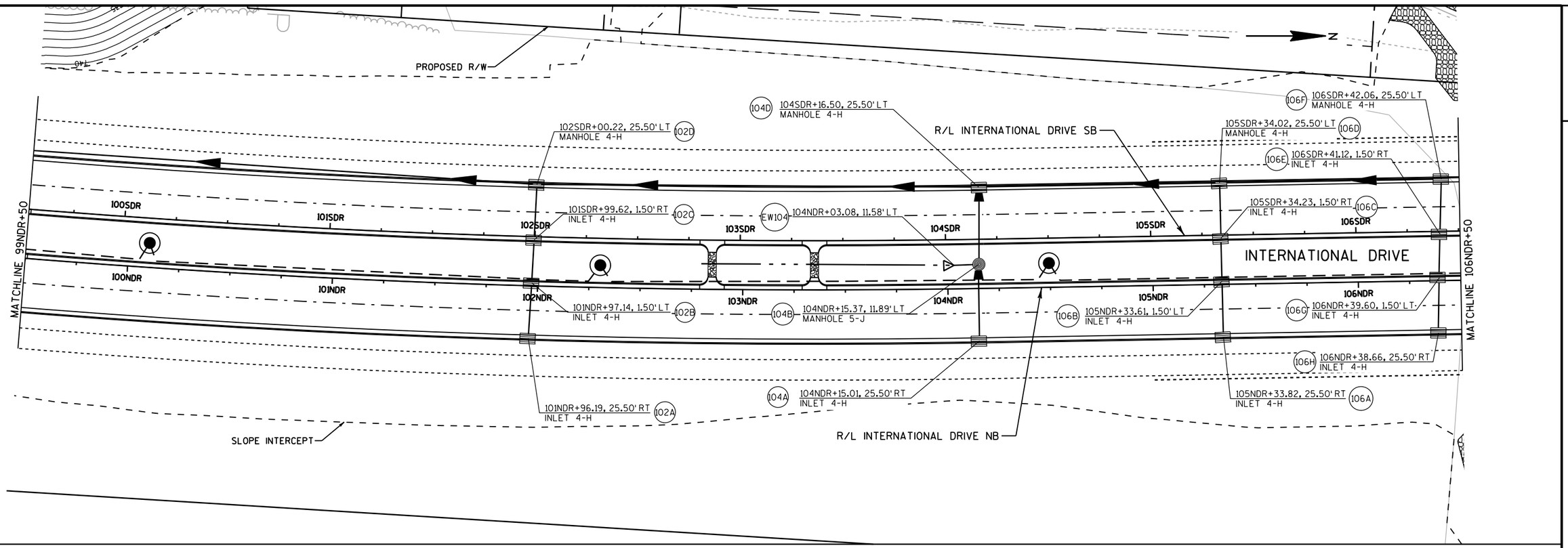


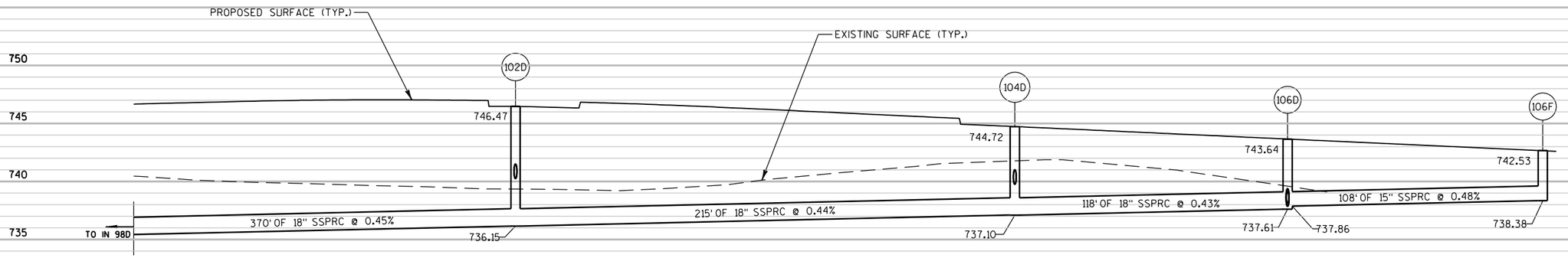




PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE PROFILES	SHEET 79	E

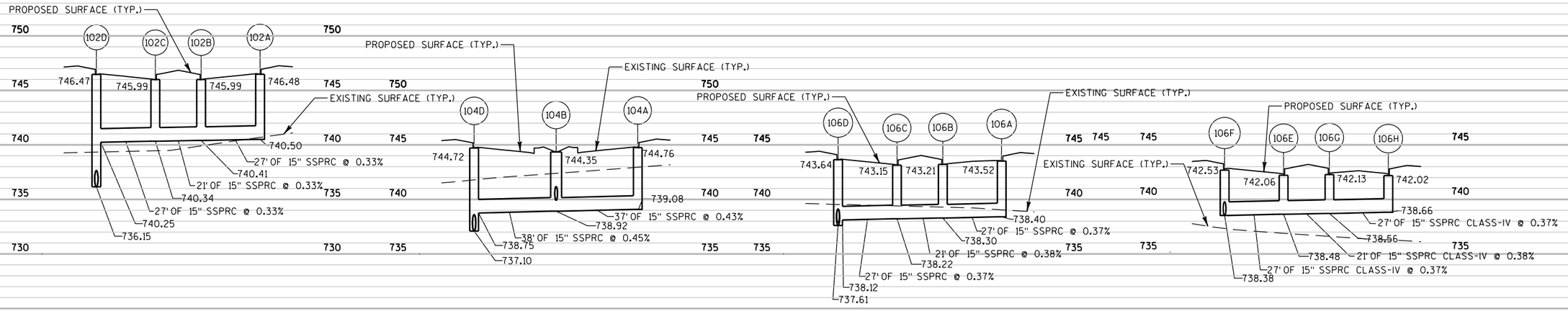
2

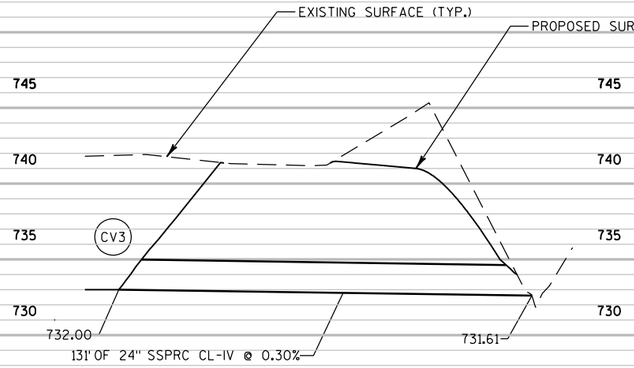




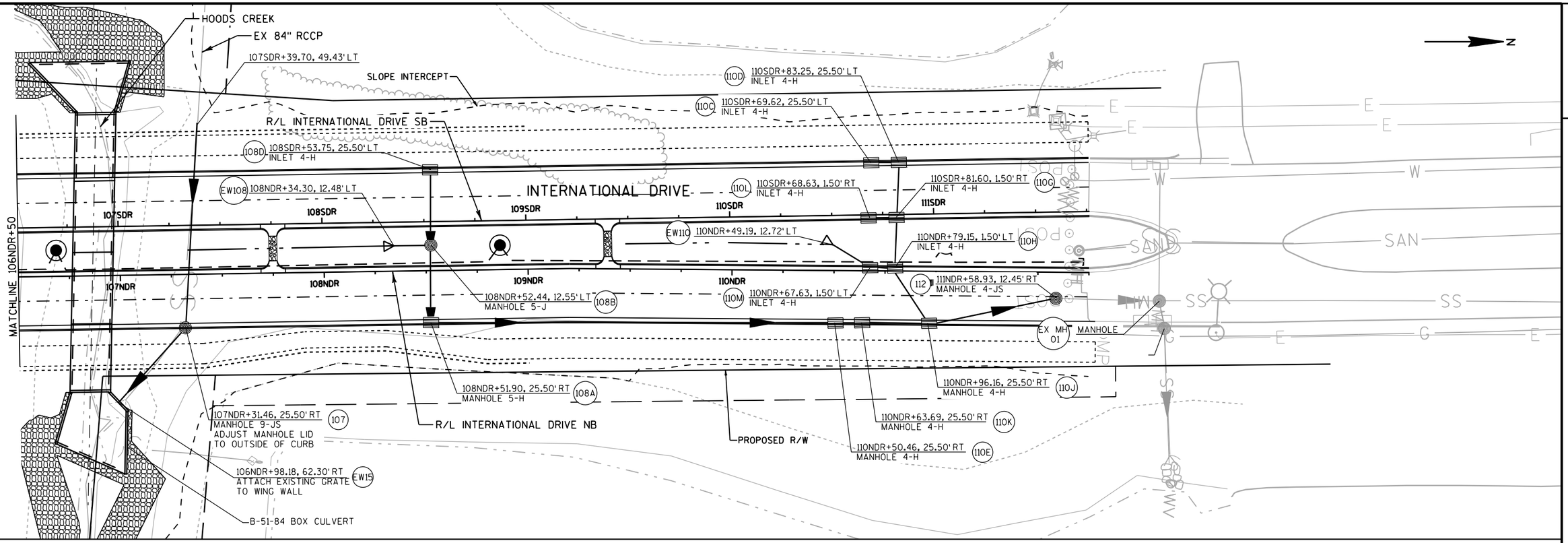
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET 80	E

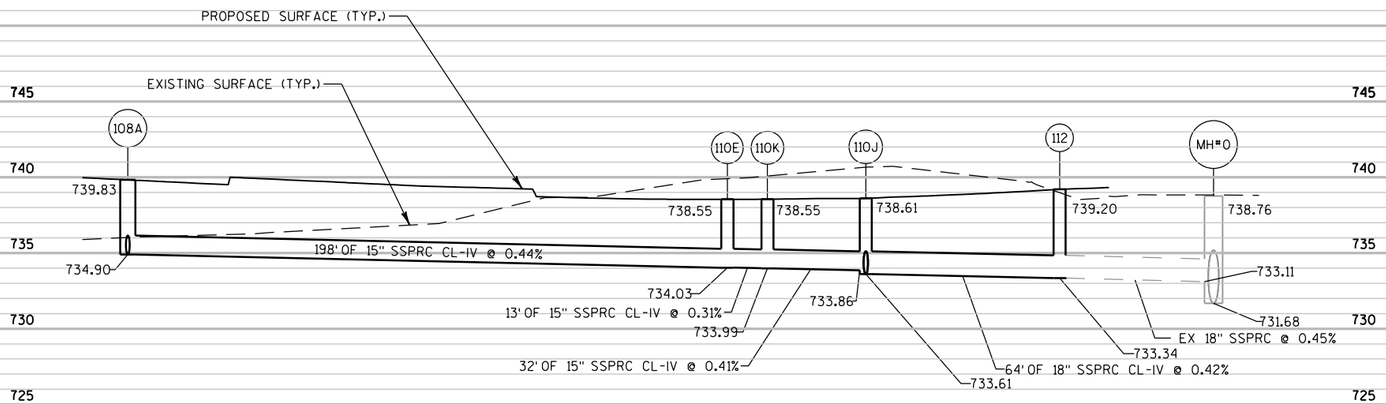
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalDrive\Plans\Sheets\4.2.27040005-SS_INTERNATIONAL_PLOT.dgn PLOT DATE : 4/28/2018 PLOTTED BY : apatek PLOT NAME : PLOT SCALE : 50:1


PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
102D
102C
102B
102A
746.47
745.99
745.99
746.48
740.50
27' OF 15" SSPRC @ 0.33%
740.41
21' OF 15" SSPRC @ 0.33%
740.34
27' OF 15" SSPRC @ 0.33%
740.25
736.15
104D
104B
104A
744.72
744.35
744.76
739.08
37' OF 15" SSPRC @ 0.43%
738.92
38' OF 15" SSPRC @ 0.45%
738.75
737.10
106D
106C
106B
106A
743.64
743.15
743.21
743.52
738.40
27' OF 15" SSPRC @ 0.37%
738.30
21' OF 15" SSPRC @ 0.38%
738.22
27' OF 15" SSPRC @ 0.37%
738.12
737.61
106F
106E
106G
106H
742.53
742.06
742.13
742.02
738.66
27' OF 15" SSPRC CLASS-IV @ 0.37%
738.56
21' OF 15" SSPRC CLASS-IV @ 0.38%
738.48
27' OF 15" SSPRC CLASS-IV @ 0.37%
738.38
750
745
740
735
730

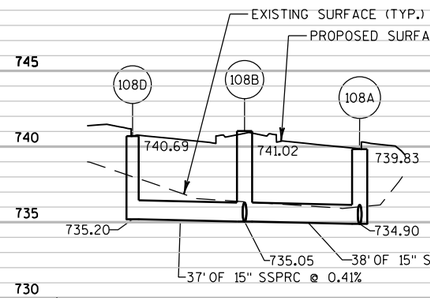

EXISTING SURFACE (TYP.)
PROPOSED SURFACE (TYP.)
CV3
732.00
731.61
131' OF 24" SSPRC CL-IV @ 0.30%
745
740
735
730

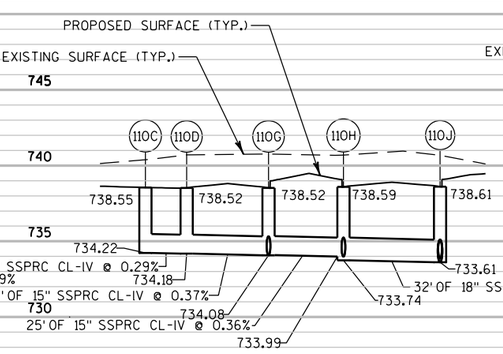
2

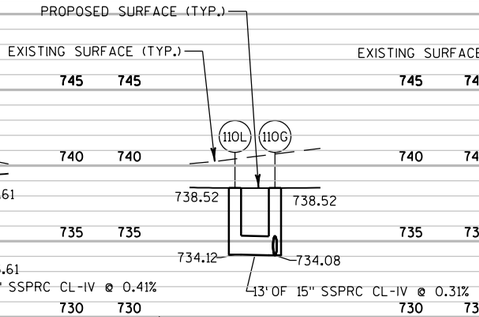


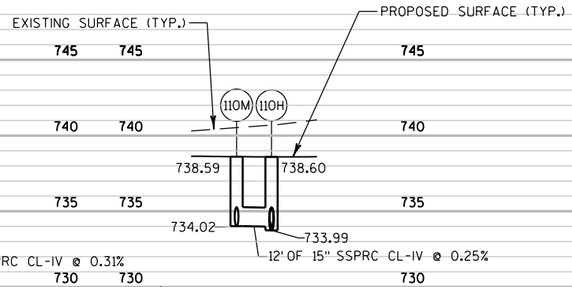


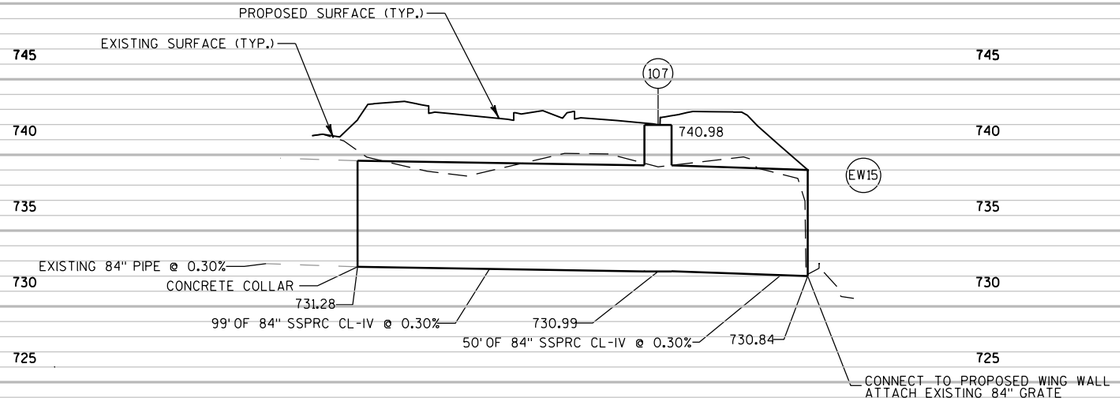
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE	SHEET 82	E











PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	STORM SEWER: INTERNATIONAL DRIVE PROFILES	SHEET 83	E

2

CURVE 1
PC = 11+07.12
X = 599205.05
Y = 179227.81
PI = 11+19.94
X = 599202.55
Y = 179240.39
PT = 11+32.75
X = 599201.37
Y = 179253.16
R = 248.0000
DELTA = 5°55'17.17"
D = 23°06'11.29"
L = 25.6304
T = 12.8266
BK = N 11°13'09.99" W
AH = N 5°17'52.82" W

CURVE 2
PC = 12+89.95
X = 599186.86
Y = 179409.69
PI = 13+66.15
X = 599179.82
Y = 179485.57
PT = 14+42.04
X = 599184.68
Y = 179561.61
R = 973.0000
DELTA = 8°57'20.32"
D = 5°53'18.85"
L = 152.0852
T = 76.1978
BK = N 5°17'52.82" W
AH = N 3°39'27.50" E

CURVE 3
PC = 17+21.79
X = 599202.53
Y = 179840.79
PI = 18+70.25
X = 599212.00
Y = 179988.95
PT = 20+18.60
X = 599212.02
Y = 180137.40
R = 4660.0000
DELTA = 3°38'58.04"
D = 1°13'46.28"
L = 296.8187
T = 148.4595
BK = N 3°39'27.50" E
AH = N 0°00'29.46" E

CURVE 4
PC = 20+94.18
X = 599260.02
Y = 180137.22
PI = 22+43.88
X = 599260.00
Y = 179987.52
PT = 23.93.48
X = 599250.45
Y = 179838.13
R = 4695.0000
DELTA = 3°39'08.93"
D = 1°13'13.29"
L = 299.2960
T = 149.6987
BK = S 0°00'18.57" W
AH = S 3°39'27.50" W

CURVE 5
PC = 26+71.67
X = 599232.71
Y = 179560.50
PI = 27+46+07
X = 599227.96
Y = 179486.25
PT = 28+20.16
X = 599234.83
Y = 179412.18
R = 950.0000
DELTA = 8°57'20.32"
D = 6°01'52.08"
L = 148.4902
T = 7439.66
BK = S 3°39'27.50" W
AH = S 5°17'52.82" E

CURVE 6
PC = 29+75.41
X = 599249.17
Y = 179257.59
PI = 29+85.75
X = 599250.12
Y = 179247.29
PT = 29+96.08
X = 599252.13
Y = 179237.15
R = 200.0000
DELTA = 5°55'17.17"
D = 28°38'52.40"
L = 20.6697
T = 10.3441
BK = S 5°17'52.82" E
AH = S 11°13'09.99" E

N

I.E. 731.61

CURVE 1
CURVE 2
CURVE 3
CURVE 4
CURVE 5
CURVE 6

12PH
14PH
16PH
18PH
20PH
22PH
24PH
26PH
28PH
30PH

92SDR
94SDR
94NDR
96NDR
98SDR
98NDR
100SDR
100NDR
102SDR
102NDR
90SDR
90NDR
88SDR
88NDR

SB INTERNATIONAL DRIVE
NB INTERNATIONAL DRIVE

265'LT
385'LT
385'LT
321'LT

99 SDR+50
132'LT

OUTFALL 1
I.E. 732.00
24" RCCP

DAYLIGHT 20-INCH TILE DRAIN TO POND
VERIFY ELEVATION 732.00
STA 92SDR+60.72, 147.02'LT

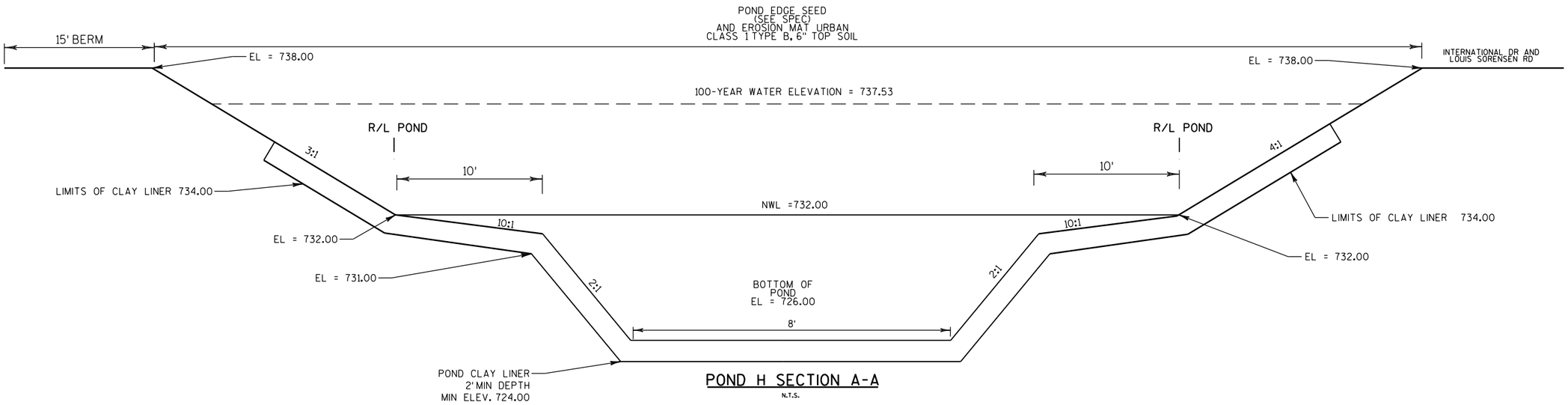
5'WIDE HEAVY RIP RAP
CHECK DAM
TOP EL = 734.00
STA 89SDR+67.82, 122.38'LT

SLOPE INTERCEPT (TYP)

PROPOSED R/W

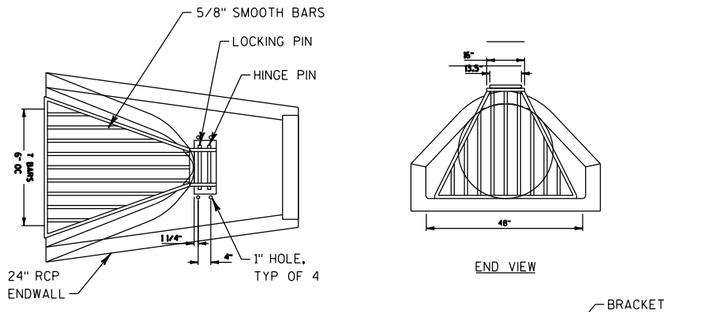
PROJECT NO: 2704-00-05	HWY: IH 94	COUNTY: RACINE	STORM WATER POND: INTERNATIONAL ROAD	SHEET 84	E

2



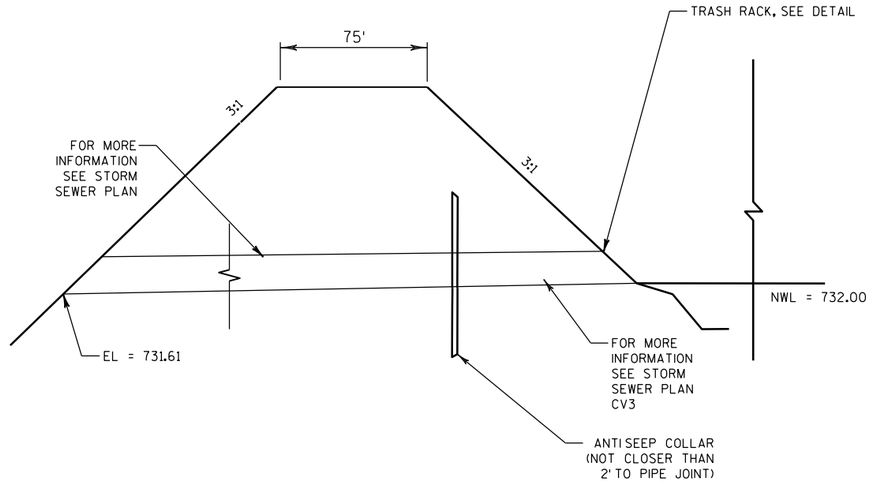
POND H SECTION A-A

N.T.S.



TRASH RACK DETAIL

N.T.S.

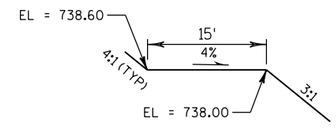


POND SECTION D-D

NOT TO SCALE

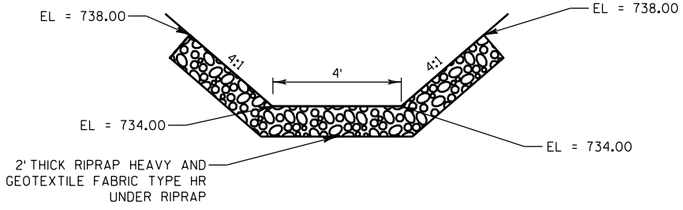
NOTES

1. TRASH RACKS WILL BE GALVANIZED OR SIMILARLY PROTECTED FROM CORROSION.



TYPICAL SECTION POND ACCESS ROAD

STA 83SDR+29 TO STA 99SDR+79



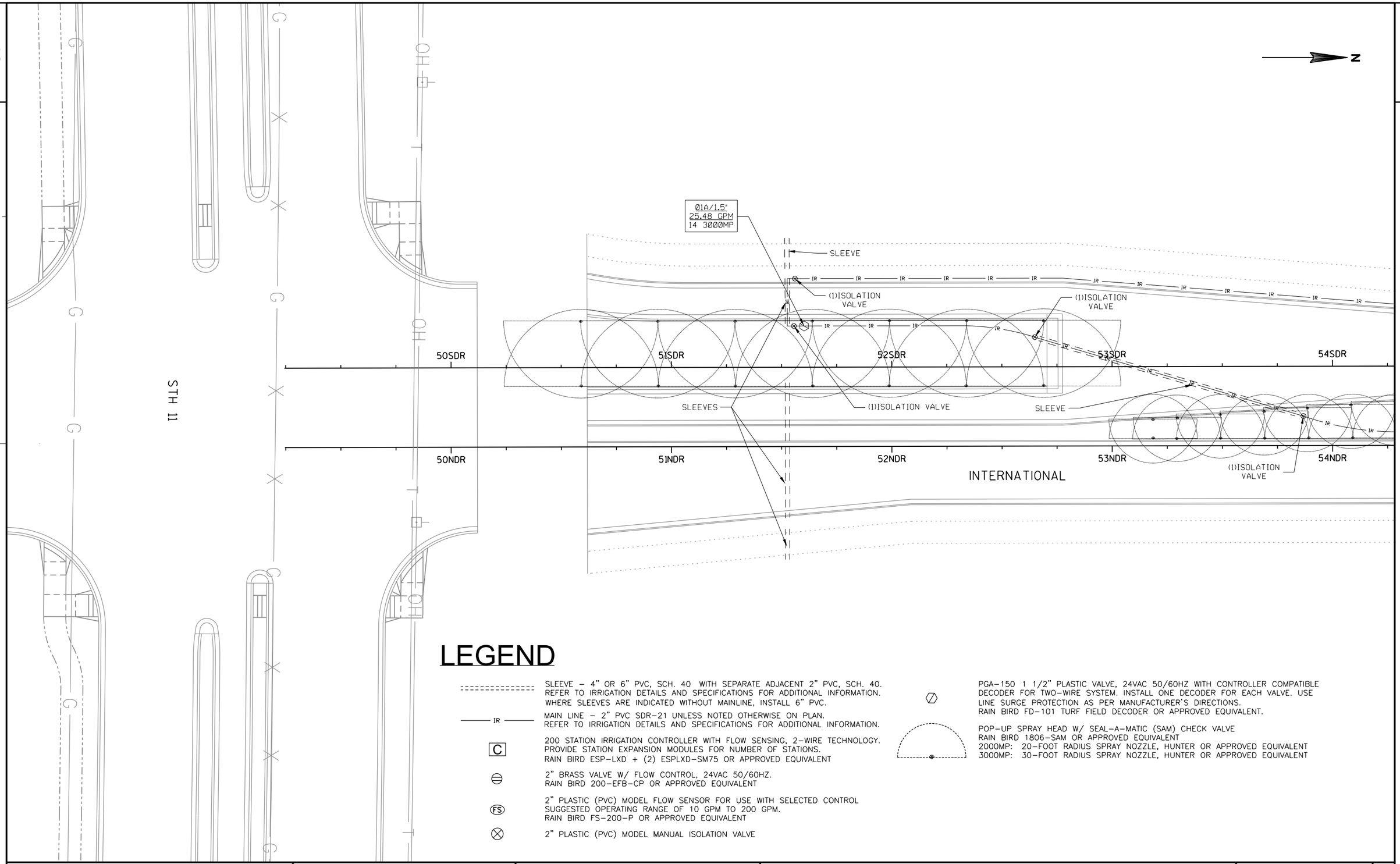
TYPICAL SECTION POND OUTFALL SPILLWAY

STA 99SDR+54 TO STA 100SDR+68

N.T.S.

PROJECT NO: 2704-00-05	HWY: INTERNATIONAL ROAD	COUNTY: RACINE	STORMWATER POND: DETAIL SHEET	SHEET 85	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS-200-P OR APPROVED EQUIVALENT

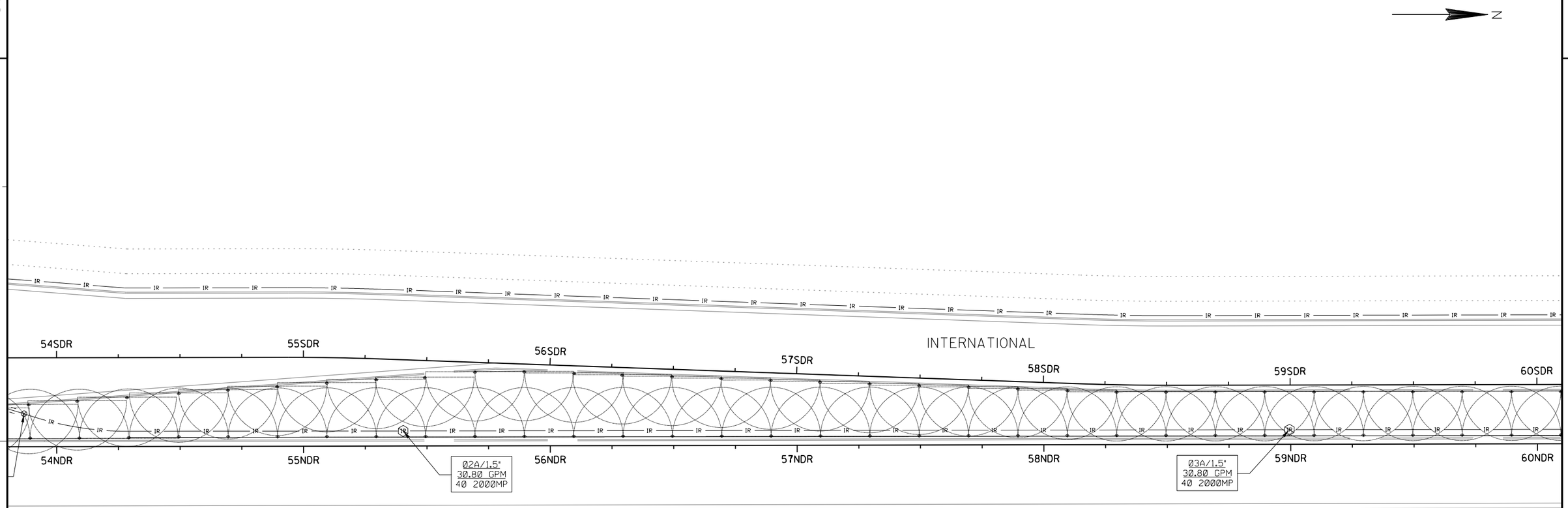
2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 86	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200–EFB–CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS–200–P OR APPROVED EQUIVALENT

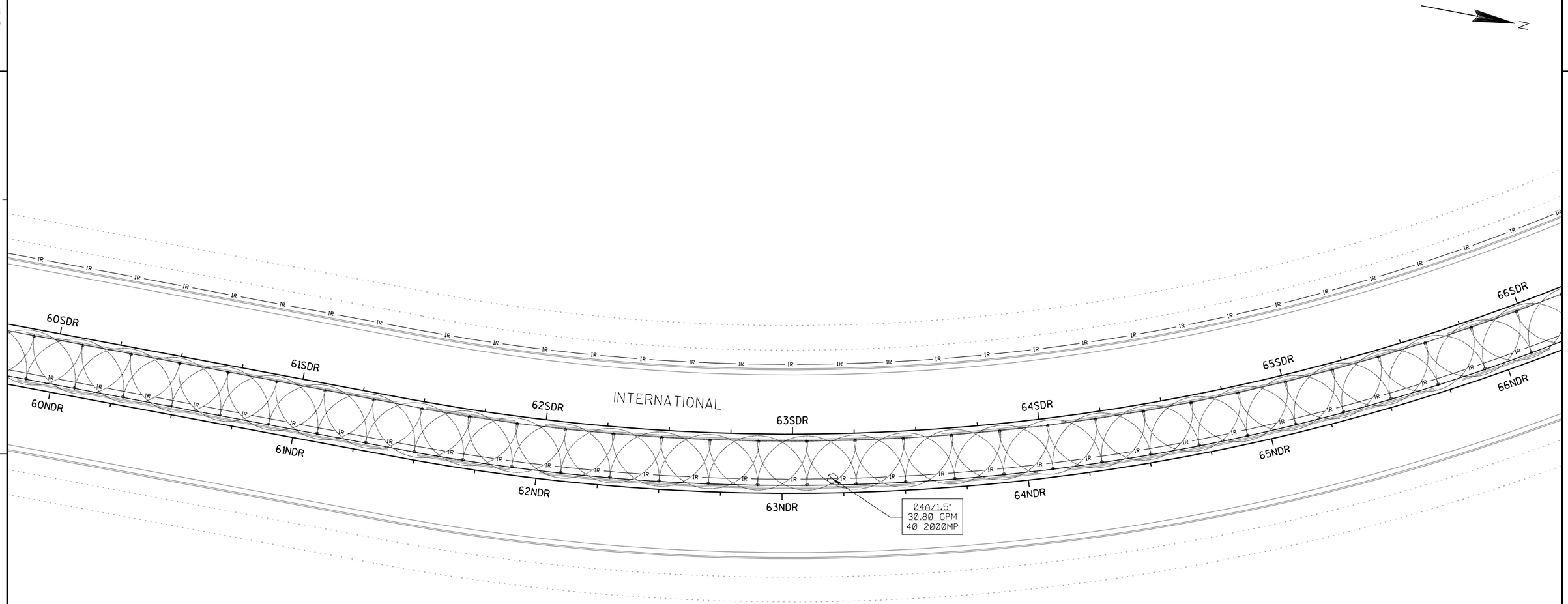
2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
2000MP: 20–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 87	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR
MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C
200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200–EFB–CP OR APPROVED EQUIVALENT

FS
2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS–200–P OR APPROVED EQUIVALENT

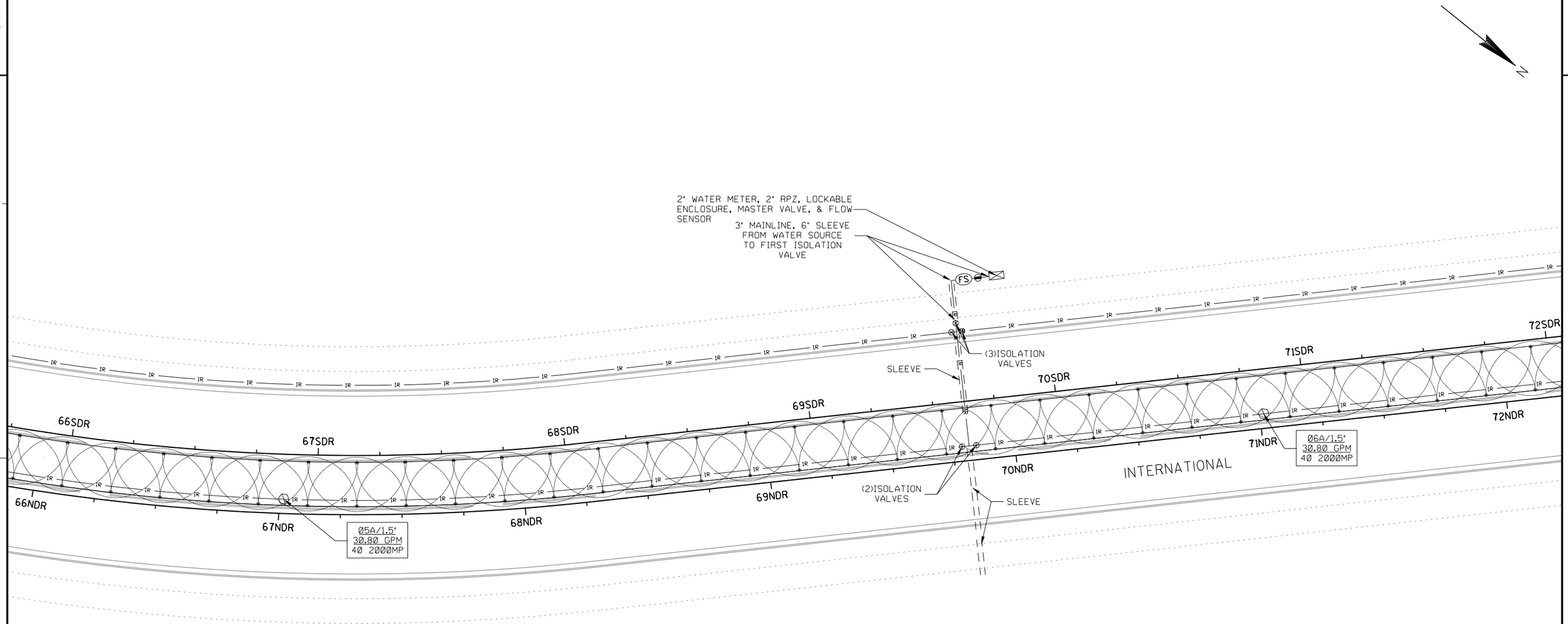
2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
2000MP: 20–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 88	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200–EFB–CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS–200–P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
2000MP: 20–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 89	E

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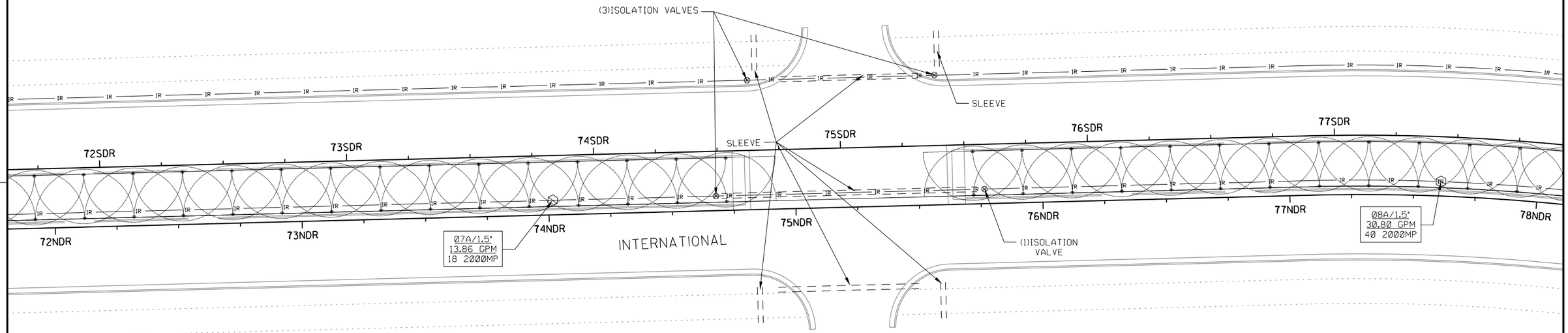

LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
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PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 90	E

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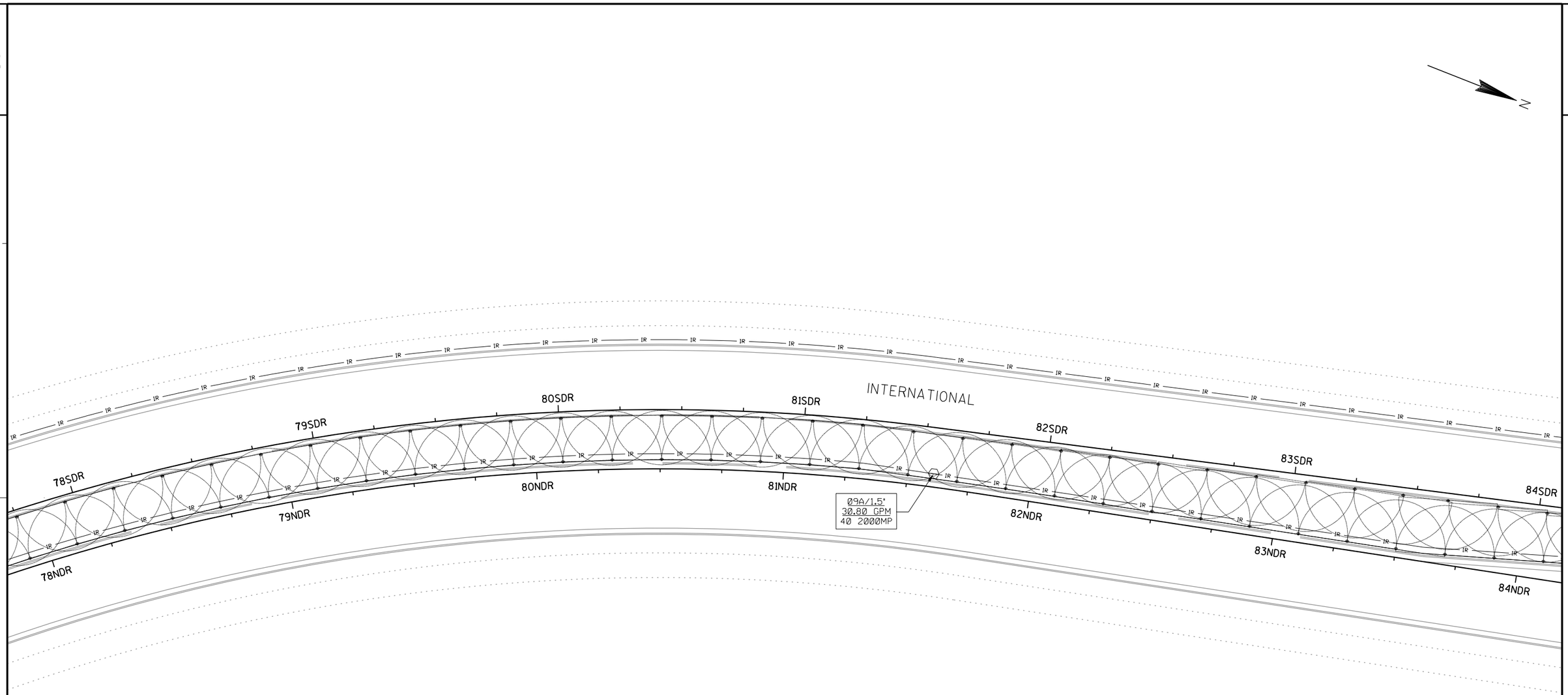

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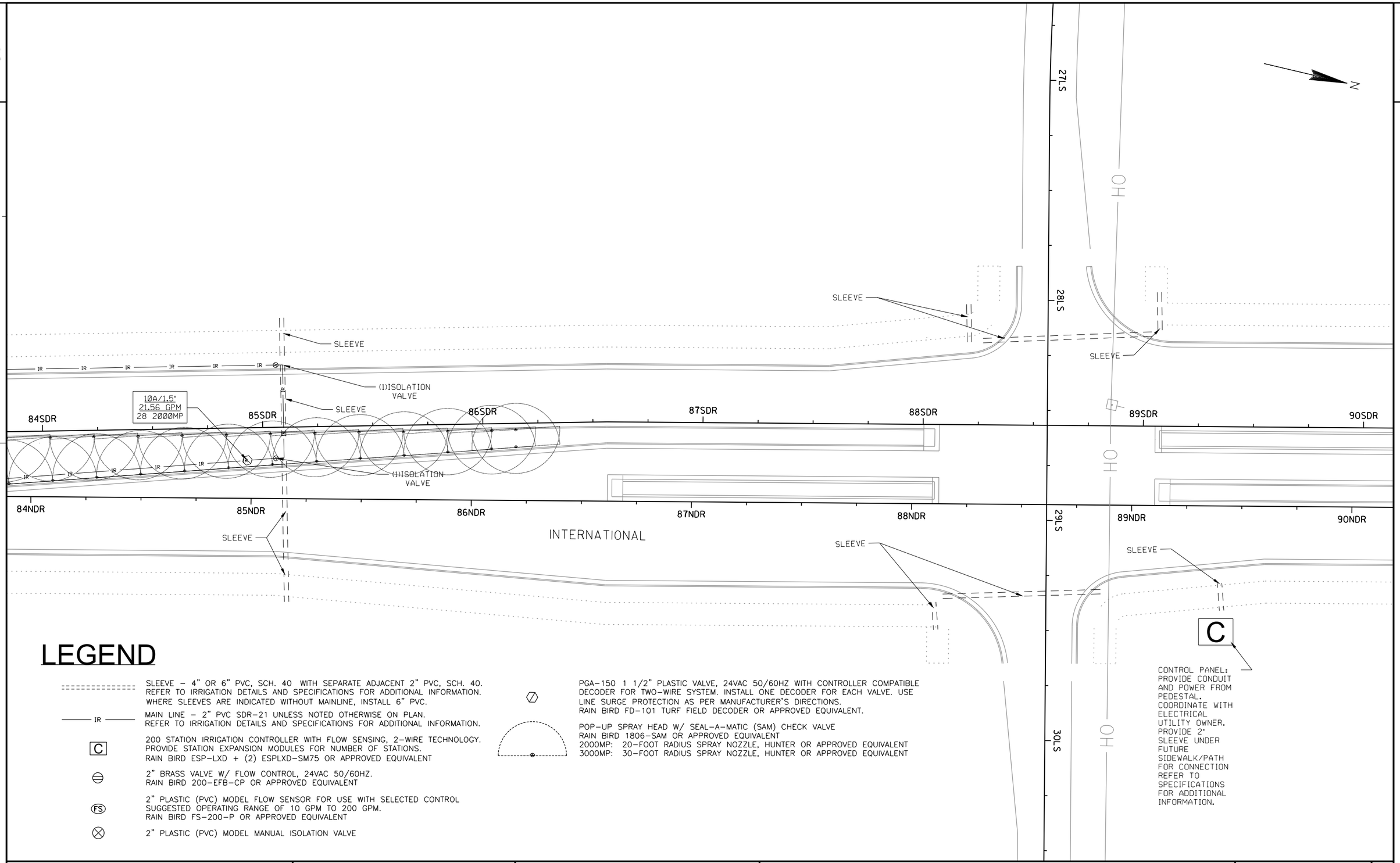
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 91	E



LEGEND

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PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 92	E

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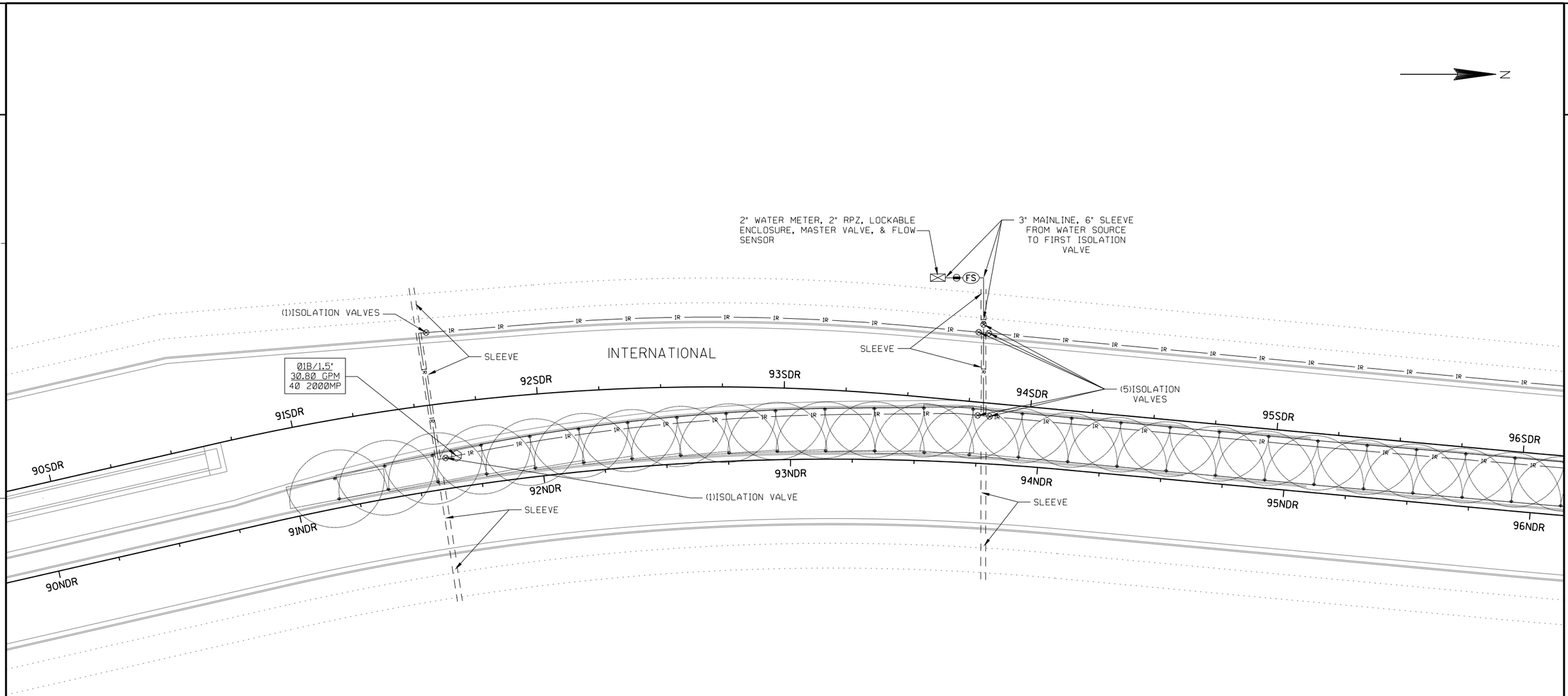

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PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 93	E

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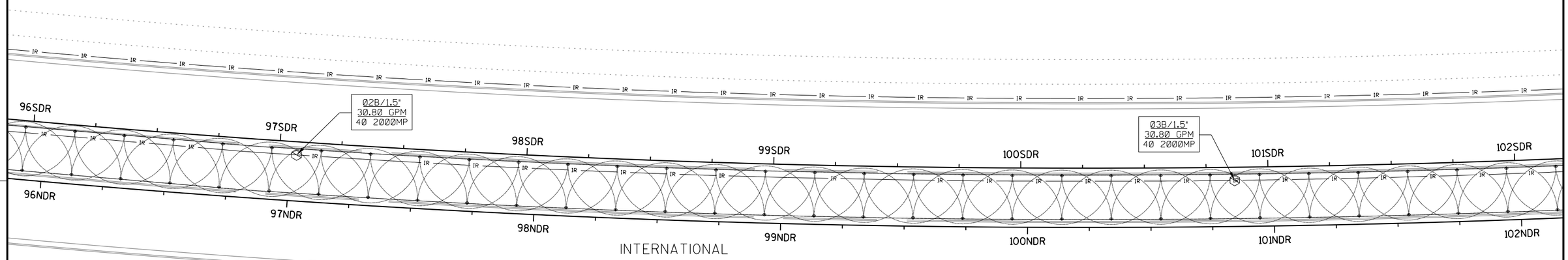

LEGEND

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PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 94	E

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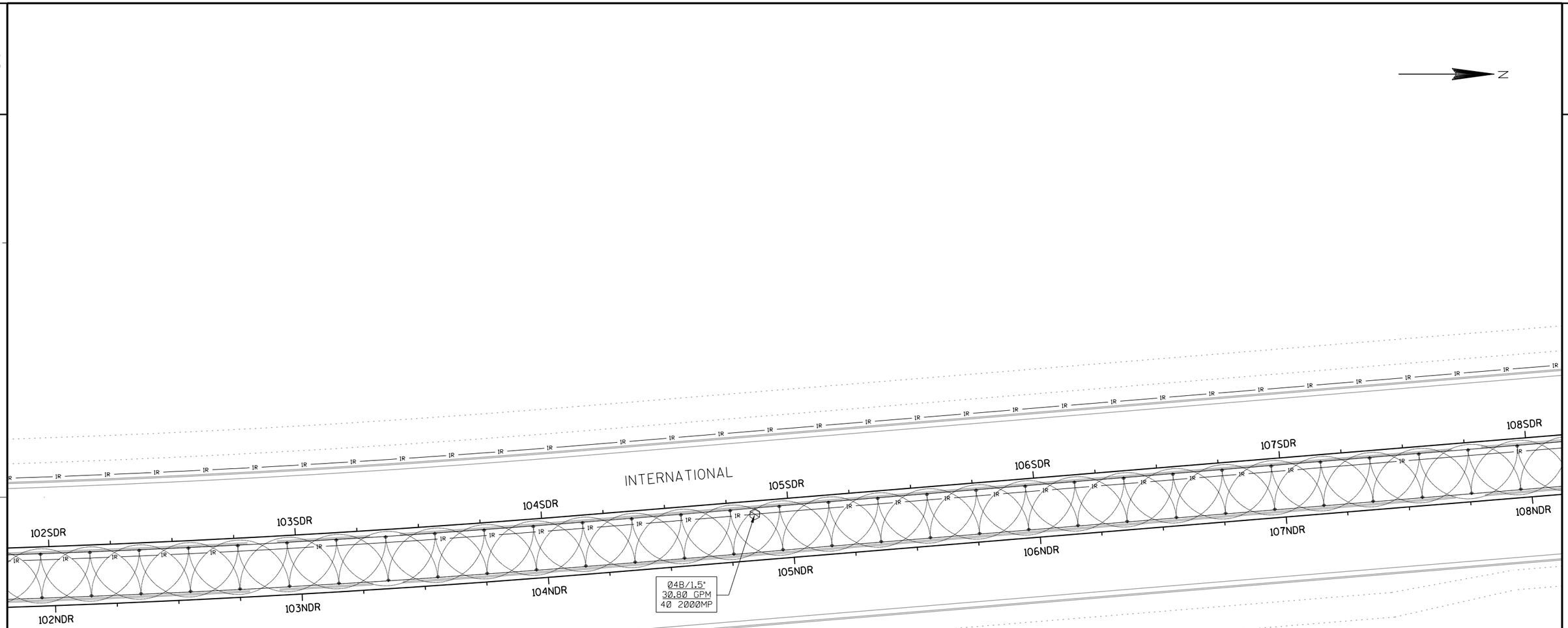

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PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 95	E

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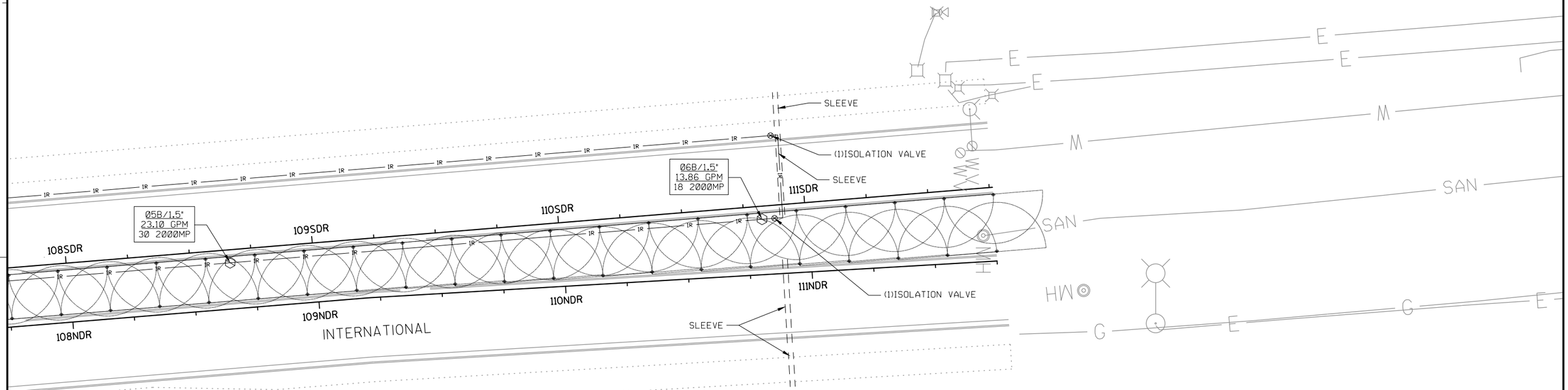

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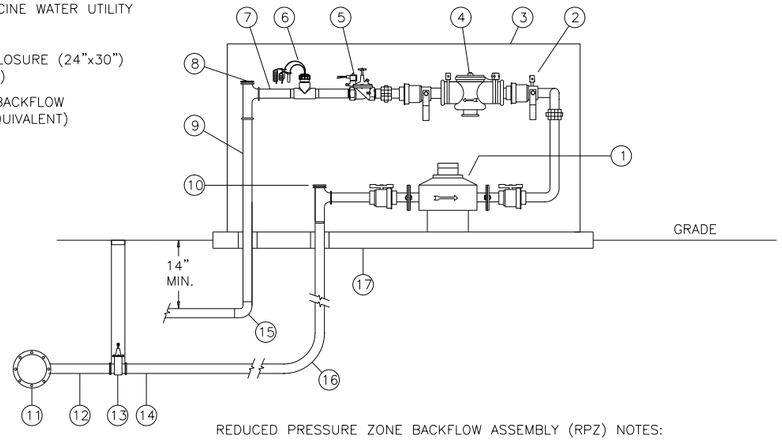
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 96	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\International\Plansheets\023111_IR.dgn PLOT DATE : 4/24/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42



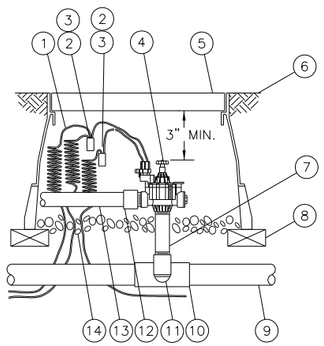
1. 2" WATER METER – COORIDANTE WITH RACINE WATER UTILITY
2. 1–1/2" FULL FLOW BALL VALVE
3. BACKFLOW PREVENTER/WATER METER ENCLOSURE (24"x30") (WATERTRONICS OR APPROVED EQUIVALENT)
4. RPZ: 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (WATTS 009 OR APPROVED EQUIVALENT)
5. 2" MASTER VALVE
6. 2" FLOW SENSOR
7. 2" PIPE
8. 1 1/2" BLOWOUT PLUG
9. 3" DROP PIPE
10. 2" SYPHON PLUG
11. EXISTING WATER MAIN
12. 2" WATER LATERAL TO CURB STOP VALVE (BY WATERMAIN UTILITY INSTALLER)
13. 2" SHUTOFF VALVE (BY WATERMAIN UTILITY INSTALLER)
13. 2" SHUTOFF VALVE (BY WATERMAIN UTILITY INSTALLER)
14. P.O.C. AFTER CURB STOP VALVE BY WATER/SEWER CONTRACTOR
15. 2" IRRIGATION MAINLINE, TRANSITION TO 3" AFTER 90° BEND WITH 2" TO 3" BUSHING
16. 2" WATER SERVICE– STUBBED A MINIMUM OF 2' ABOVE GRADE (INSTALLED BY WATER/SEWER CONTRACTOR)
17. CONCRETE PAD OVER GRAVEL BASE PER MANUFACTURERS SPECIFICATIONS

REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ) NOTES:

1. EQUIPMENT TO BE WATTS SERIES 009/909 OR APPROVED EQUIVALENT
2. ONLY ONE RPZ IS REQUIRED TO SERVE EACH METER ASSEMBLY. INSTALL ENTIRE IRRIGATION SYSTEM (ON/OFF VALVES) DOWNSTREAM OF THE RPZ.
3. RPZ MUST BE INSTALLED A MINIMUM OF 12–INCHES ABOVE GROUND LEVEL.
4. RPZ MUST BE TESTED BY A STATE–CERTIFIED BACKFLOW ASSEMBLY TESTER AT TIME OF INSTALLATION, ANNUALLY, OR WHEN MOVED OR REPAIRED.
4. IN AN RPZ EQUIPPED SYSTEM, FERTILIZER AND OTHER AGRICULTURAL CHEMICALS MAY BE INTRODUCED DOWNSTREAM OF (AFTER) THE RPZ.
5. IRRIGATION SYSTEM TO BE ANTI–SIPHON, ANTI–BACKPRESSURE, MULTI–ZONE

WATER METER AND CROSS CONNECTION DETAIL

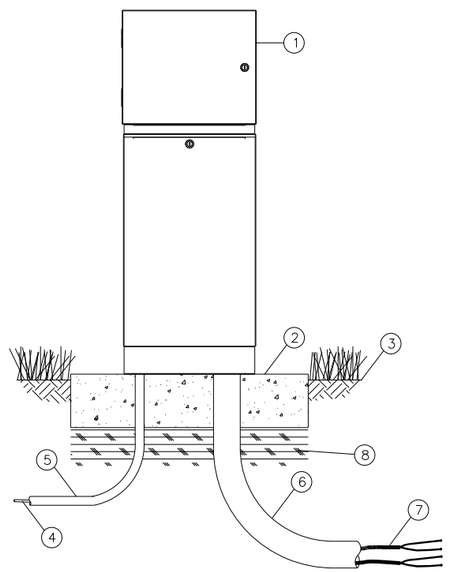
NOT TO SCALE



1. 30–INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION:
3. DECODER
4. REMOTE CONTROL VALVE: PGA
5. VALVE BOX WITH COVER:
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
8. BRICK (1 OF 4)
9. PVC MAINLINE PIPE
10. PVC SCH 40 TEE OR ELL
11. SCH 80 NIPPLE: (2–INCH LENGTH, HIDDEN & SCH 40 ELL)
12. PVC SCH 40 MALE ADAPTER
13. PVC LATERAL PIPE
14. 3.0–INCH MINIMUM DEPTH OF 3/4–INCH WASHED GRAVEL

ELECTRIC REMOTE CONTROL PGA VALVE

NOT TO SCALE

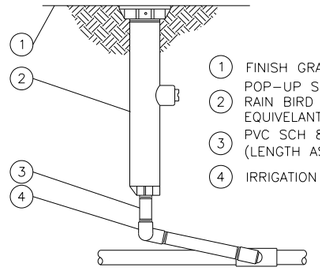


1. TWO–WIRE DECODER CONTROLLER: TWO–WIRE DECODER (RAIN BIRD ESP–LXD OR APPROVED EQUIVALENT) CONTROLLER WITH STAINLESS STEEL METAL CABINET (RAIN BIRD LXMM OR APPROVED EQUIVELANT) AND STAINLESS STEEL METAL PEDESTAL (RAINBIRD LXMMPED OR APPROVED EQUIVALENT). INSTALL CONTROLLER, CABINET AND PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.
2. CONCRETE PAD: 6–INCH MINIMUM THICKNESS
3. FINISH GRADE
4. POWER SUPPLY WIRE
5. 1–INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
6. 3–INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR TWO–WIRE CABLE
7. MAXICABLE TWO–WIRE PATH TO DECODERS USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH.
8. COMPACTED SUBGRADE

NOTES:
1. PROVIDE EXPANSION MODULES TO ALLOW FOR THE MAXIMUM STATION CAPACITY TO ACCOMMODATE EXISTING SYSTEM AND FUTURE EXPANSION.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

TWO–WIRE DECODER CONTROLLER IN STAINLESS STEEL PEDESTAL

NOT TO SCALE

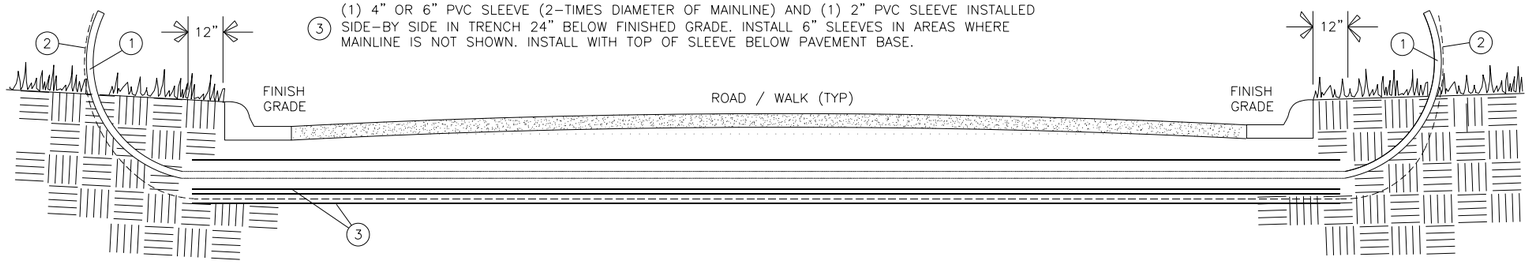


1. FINISH GRADE
2. POP–UP SPRAY SPRINKLER: RAIN BIRD 1806 OR APPROVED EQUIVELANT
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. IRRIGATION FUNNY PIPE

POP–UP SPRAY SPRINKLER

NOT TO SCALE

1. 1" POLY PIPE THRU SLEEVE EXTEND 3–FEET ABOVE GRADE
2. PULL WIRE THRU SLEEVE – EXTEND 3–FEET ABOVE GRADE
3. (1) 4" OR 6" PVC SLEEVE (2–TIMES DIAMETER OF MAINLINE) AND (1) 2" PVC SLEEVE INSTALLED SIDE–BY SIDE IN TRENCH 24" BELOW FINISHED GRADE. INSTALL 6" SLEEVES IN AREAS WHERE MAINLINE IS NOT SHOWN. INSTALL WITH TOP OF SLEEVE BELOW PAVEMENT BASE.



SLEEVING DETAIL

NOT TO SCALE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SITE DESIGN	SHEET 97	E

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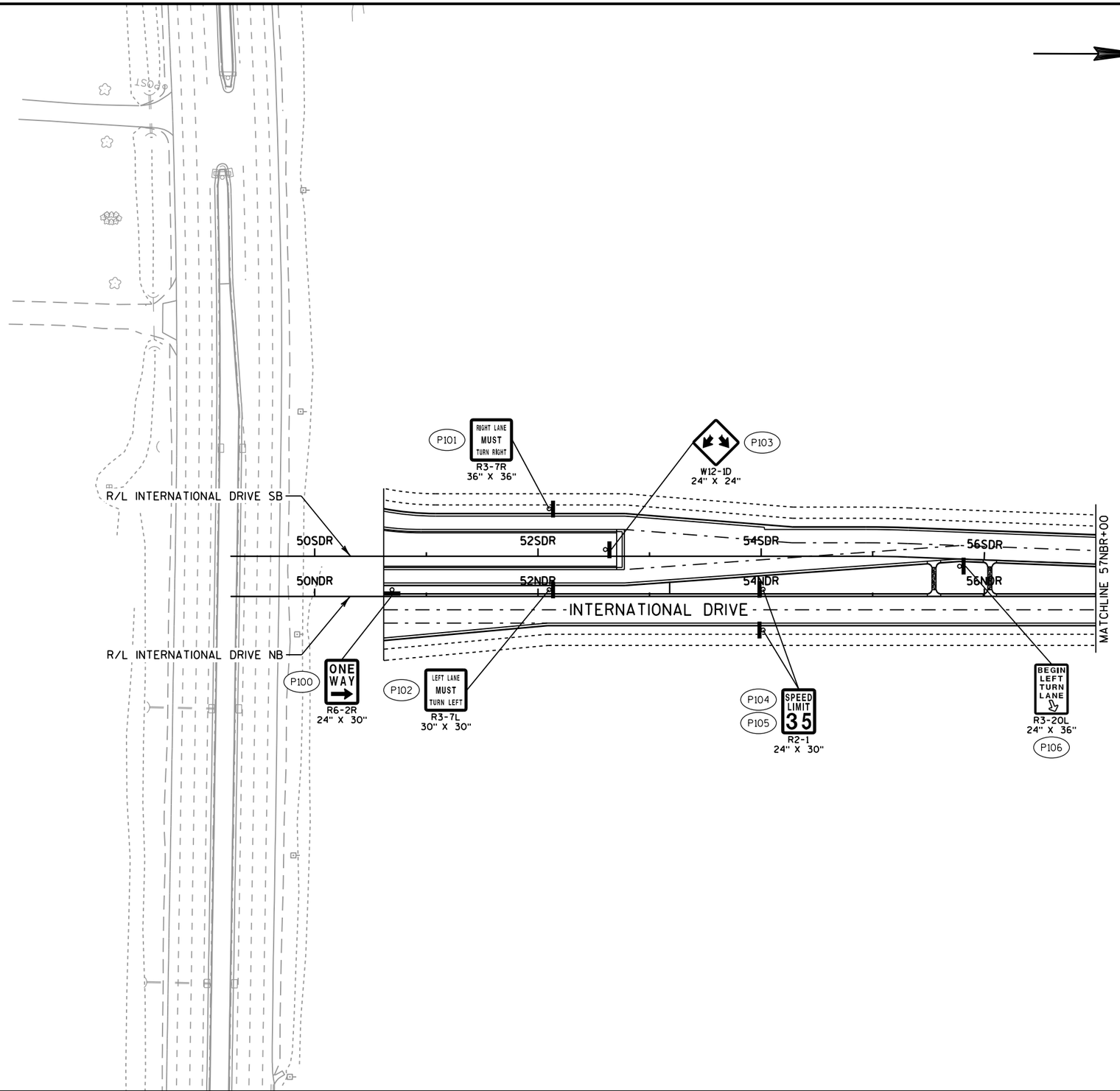
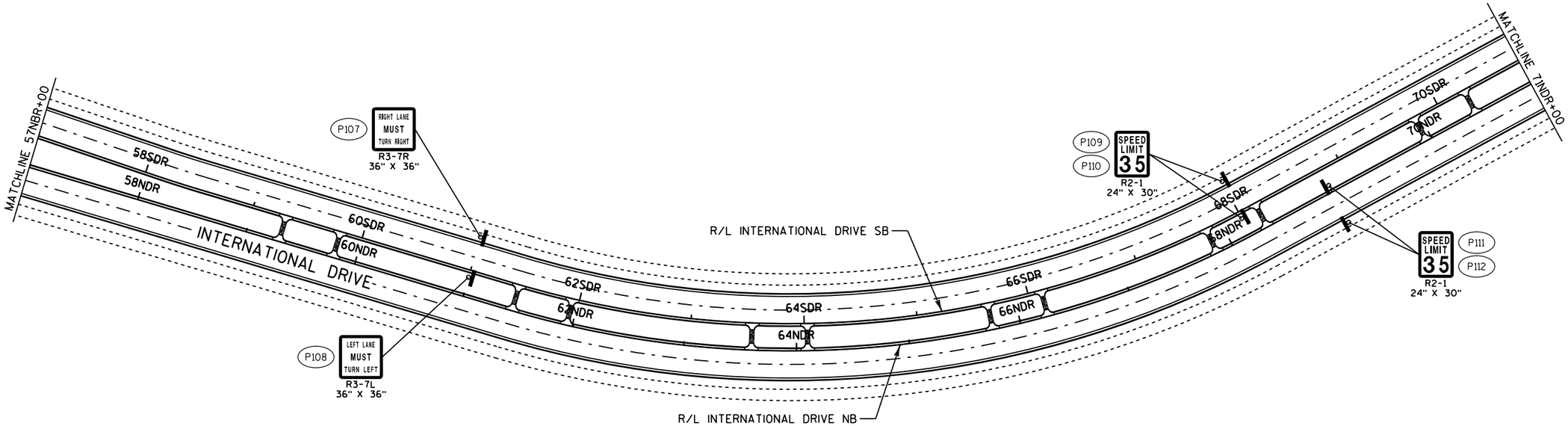


LEGEND

- EXISTING SIGN MOUNTED ON POST
- PROPOSED SIGN MOUNTED ON POST
- (RXXX) DENOTES SIGN REMOVAL NUMBER
- (PXXX) PROPOSED SIGN NUMBER

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SIGNING PLAN	SHEET 98	E

2

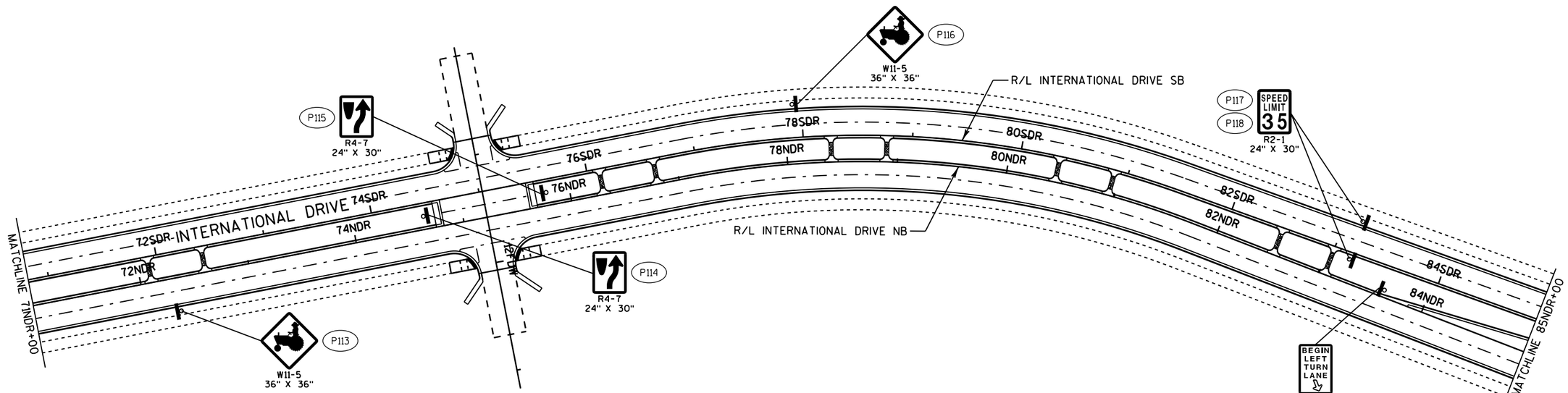


LEGEND

- EXISTING SIGN MOUNTED ON POST
- PROPOSED SIGN MOUNTED ON POST
- (RXXX) DENOTES SIGN REMOVAL NUMBER
- (PXXX) PROPOSED SIGN NUMBER

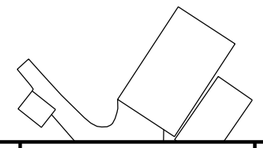
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SIGNING PLAN	SHEET 99	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST
- PROPOSED SIGN MOUNTED ON POST
- (RXXX) DENOTES SIGN REMOVAL NUMBER
- (PXXX) PROPOSED SIGN NUMBER



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SIGNING PLAN	SHEET 100	E

2

N

INSTALL 400' FROM STOP SIGN
P126
W3-1
18" X 18"

LOUIS SORENSON ROAD

P125 STOP R1-1 36" X 36"
P123 ONE WAY R6-2L 24" X 30"
P120 BEGIN LEFT TURN LANE R3-20LL 24" X 36"
P129 SPEED LIMIT 45 R2-1 24" X 30"
P122 R4-7 24" X 30"
P132 DO NOT ENTER R5-1 30" X 30"
P134 BEGIN LEFT TURN LANE R3-20L 24" X 36"

R/L INTERNATIONAL DRIVE SB

88SDR
86SDR
86NDR
88NDR
90SDR
90NDR
92SDR
92NDR
94SDR
94NDR
96SDR
96NDR
98SDR
98NDR

INTERNATIONAL DRIVE

MATCHLINE 85NDR+00

MATCHLINE 99NDR+00

P130 ONE WAY R6-2L 24" X 30"
P133 BEGIN LEFT TURN LANE R3-20LL 24" X 36"
P135 P136 SPEED LIMIT 35 R2-1 24" X 30"
R200 SPEED LIMIT 45 REMOVE

R/L INTERNATIONAL DRIVE NB

P121 DO NOT ENTER R5-1 30" X 30"
P131 R4-7 24" X 30"
P128 STOP R1-1 36" X 36"

R/L LOUIS SORENSON ROAD

P124 SPEED LIMIT 45 R2-1 24" X 30"

INSTALL 400' FROM STOP SIGN
P127
W3-1
18" X 18"

LEGEND

- EXISTING SIGN MOUNTED ON POST
- PROPOSED SIGN MOUNTED ON POST
- (RXXX) DENOTES SIGN REMOVAL NUMBER
- (PXXX) PROPOSED SIGN NUMBER

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SIGNING PLAN	SHEET 101	E

2

N

R/L INTERNATIONAL DRIVE SB

MATCHLINE 99NDR+00

100SDR 102SDR 104SDR 106SDR 108SDR 110SDR

100NDR 102NDR 104NDR 106NDR 108NDR 110NDR

INTERNATIONAL DRIVE

R/L INTERNATIONAL DRIVE NB

P141 R4-7 24" X 30"

P139 P140 SPEED LIMIT 35 R2-1 24" X 30"

LOCATED 1200' NORTH OF TIE-IN LOCATION

R211 DEAD END REMOVE

REMOVE R201 R202 R203 R204 R205 R206 R207 R208 R209 R210

P137 P138 SPEED LIMIT 35 R2-1 24" X 30"

POST SS SWK

LEGEND

- EXISTING SIGN MOUNTED ON POST
- PROPOSED SIGN MOUNTED ON POST
- RXXX DENOTES SIGN REMOVAL NUMBER
- PXXX PROPOSED SIGN NUMBER

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	SIGNING PLAN	SHEET 102	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International_Dr_TIE_ds_02282018.dgn PLOT DATE : 4/2/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

GENERAL NOTES

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

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACKFEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM OLD SOURCE.

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION. THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION 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 ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE AND A MINIMUM OF 3 INCHES BELOW ALL PAVEMENT BASE MATERIALS. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR SUBSEQUENT POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE RESPECTIVE CONDUCTOR(S) PAST THE LAST POLE THE PHASE WAS UTILIZED. REMOVE UNUSED CONDUCTOR(S) EXPOSED BEYOND THE CID RACEWAY IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED FOAM CONDUIT SEALANT. PROVIDE A 1/2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN THE CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

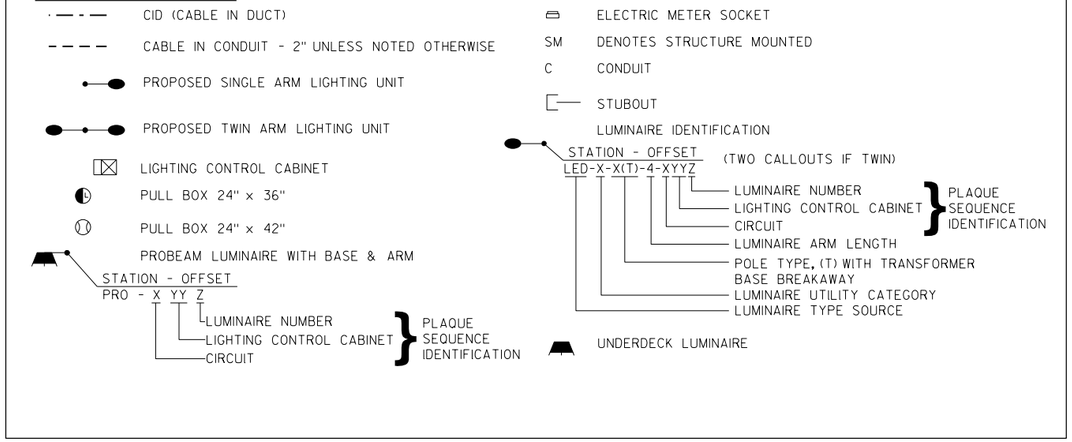
PULL BOXES:	10-FT	LIGHTING CONTROL CENTERS:	10-FT
EMBEDDED JUNCTION BOXES:	3-FT	POLES:	5-FT IN AND 5-FT OUT

SIGN STRUCTURES WHICH HAVE A BASE THAT EXTENDS THE COMPLETE WIDTH OF THE MEDIAN TYPICALLY HAVE A 4" SLEEVE FOR LIGHTING.

WIRE AND CONDUIT IS LISTED IN THE MISCELLANEOUS QUANTITIES BASED UPON THE EARLIEST STAGE SHOWN. CONTRACTOR MAY INSTALL LATER WHEN LOAD NEEDS TO BE ENERGIZED.

CONDUCTOR COLORS: 240/480V, 1 PHASE - BLACK / RED / WHITE (NEUTRAL) / BARE OR GREEN (GROUND)
277/480V, 3 PHASE - BROWN / ORANGE / YELLOW / GREY (NEUTRAL) / BARE OR GREEN (GROUND)

LEGEND - FINAL LIGHTING



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	LIGHTING PLAN	SHEET 103	E

2

N

STH 11

STA. 60NDR+63.12, 13.83' LT
BASE IL-2

STA. 58NDR+45.85, 13.68' LT
BASE IL-1

50SDR 52SDR 54SDR 56SDR 58SDR 60SDR 62SDR

50NDR 52NDR 54NDR 56NDR 58NDR 60NDR 62NDR

INTERNATIONAL

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	LIGHTING PLAN	SHEET 104	E

2

2

N

STA. 62NDR+82.12, 13.91'LT
BASE IL-3

STA. 65NDR+02.68, 12.83'LT
BASE IL-4

STA. 67NDR+20.64, 13.97'LT
BASE IL-5

STA. 69NDR+36.33, 12.88'LT
BASE IL-6

STA. 71NDR+50.84, 12.66'LT
BASE IL-7

STA. 73NDR+62.91, 11.41'LT
BASE IL-8

STA. 75NDR+80.88, 12.91'LT
BASE IL-9

62SDR
62NDR
64SDR
64NDR
66SDR
66NDR
68SDR
68NDR
70SDR
70NDR
72SDR
72NDR
74SDR
74NDR
76SDR
76NDR

3" C

INTERNATIONAL

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	LIGHTING PLAN	SHEET 105	E

2

2

N

INTERNATIONAL

STA. 75NDR+80.88, 12.91' LT
BASE IL-9

STA. 77NDR+82.20, 11.88' LT
BASE IL-10

STA. 79NDR+91.52, 11.00' LT
BASE IL-11

STA. 81NDR+99.18, 11.69' LT
BASE IL-12

STA. 84NDR+10.68, 17.00' LT
BASE IL-13

STA. 86NDR+20.72, 28.29' LT
BASE IL-14

STA. 88NDR+05.78, 30.64' LT
BASE IL-15

STA. 88NDR+42.41, 103.99' LT
BASE IL-16

STA. 88NDR+06.90, 70.94' LT
PULLBOX PB-IL4

STA. 91NDR+36.20, 7.67' LT
BASE IL-19

76SDR
76NDR
78SDR
78NDR
80SDR
80NDR
82SDR
82NDR
84SDR
84NDR
86SDR
86NDR
88SDR
88NDR
90SDR
90NDR

3" C

26LS
28LS
30LS
32LS
HO

STA. 88NDR+36.68, 67.76' RT
PULLBOX PB-IL1

3" C
TO PB-IL3
VIA LCC

STA. 89NDR+27.07, 5.54' LT
BASE IL-18

STA. 89NDR+21.69, 34.48' RT
PULLBOX PB-IL3

STA. 89NDR+12.91, 49.66' RT
LCC-IL (CONCRETE BASE ONLY)

STA. 88NDR+99.71, 63.17' RT
PULLBOX PB-IL2

STA. 88NDR+80.40, 69.95' RT
BASE IL-17

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	LIGHTING PLAN	SHEET 106	E

2

N

STA. 91NDR+36.20, 7.67' LT
BASE IL-19

STA. 93NDR+53.11, 11.00' LT
BASE IL-20

STA. 95NDR+70.81, 12.65' LT
BASE IL-21

STA. 97NDR+91.16, 11.29' LT
BASE IL-22

STA. 100NDR+10.05, 11.94' LT
BASE IL-23

STA. 102NDR+30.39, 10.89' LT
BASE IL-24

STA. 104NDR+49.41, 11.83' LT
BASE IL-25

90SDR
90NDR
92SDR
92NDR
94SDR
94NDR
96SDR
96NDR
98SDR
98NDR
100SDR
100NDR
102SDR
102NDR
104SDR
104NDR

INTERNATIONAL

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	LIGHTING PLAN	SHEET 107	E

2

N

STA. 104NDR+49.41, 11.83' LT
BASE IL-25

STA. 106NDR+68.64, 12.72' LT
BASE IL-26

STA. 108NDR+86.35, 11.91' LT
BASE IL-27

STA. 111NDR+04.94, 13.44' LT
BASE IL-28

104SDR
104NDR
106SDR
106NDR
108SDR
108NDR
110SDR
110NDR

CAP CONDUIT

INTERNATIONAL

E
M
SAN
G
W
HW
WV

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	LIGHTING PLAN	SHEET 108	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\International\Plansheets\023506_LP.dgn PLOT DATE : 4/18/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:100

2

2

N

WISCONN VALLEY WAY

STH 11

INTERNATIONAL DRIVE

LOUIS SORENSON ROAD

I.D. 1320-23-70

I.D. 2704-00-75

1

S51-1467

I.D. 2704-00-75

I.D. 1320-23-70

STH 11

LEGEND

TRAFFIC SIGNAL

XXX-XXXX

1 INSTALL PORTIONS OF TRAFFIC SIGNAL INFRASTRUCTURE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC SIGNAL PROJECT OVERVIEW	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\DATA\cads\4.2302018sp2.dgn 4:30:06 PM PLOT BY : jmatson PLOT NAME : PLOT SCALE : 750:1

WISDOT/CADDS SHEET 42

LEGEND

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

TYPE 5 CONCRETE BASE, TRANSFORMER BASE

PULL BOX, 24" X 36"

NOTE: GRAYSHADE REPRESENTS EXISTING

N

HWE

R/W

ROADWAY CONSTRUCTION BY OTHERS

51SDR 52SDR 53SDR 54SDR 55SDR 56SDR

ONLY ONLY

PB1 SB1 SB2 SB3

51NDR 52NDR 53NDR 54NDR 55NDR 56NDR

INTERNATIONAL DRIVE

ROADWAY CONSTRUCTION BY OTHERS

R/W

HWE

PLE

R/W

PLE

CONSTRUCTION NOTES;

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE REGIONAL ELECTRICAL FIELD UNIT AT (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. PROVIDE A 1/8-INCH ALUMINUM OR STEEL PLATE TO COVER THE TOP OPENING OF THE TRANSFORMER BASE. COVER SHALL BE BOLTED TO TRANSFORMER BASE TO PREVENT WATER FROM ENTERING THE TRAFFIC SIGNAL INFRASTRUCTURE. THE COST OF THE COVER AND HARDWARE IS INCIDENTAL TO THE COST OF THE TRANSFORMER BASE.
4. PROPOSED STORM SEWER IS SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC CONTROL SIGNAL
STH 11 & INTERNATIONAL DRIVE
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-1467

REGION CONTACT: PARWINDER VIRK
DESIGNED BY: HNTB
REVISED BY:

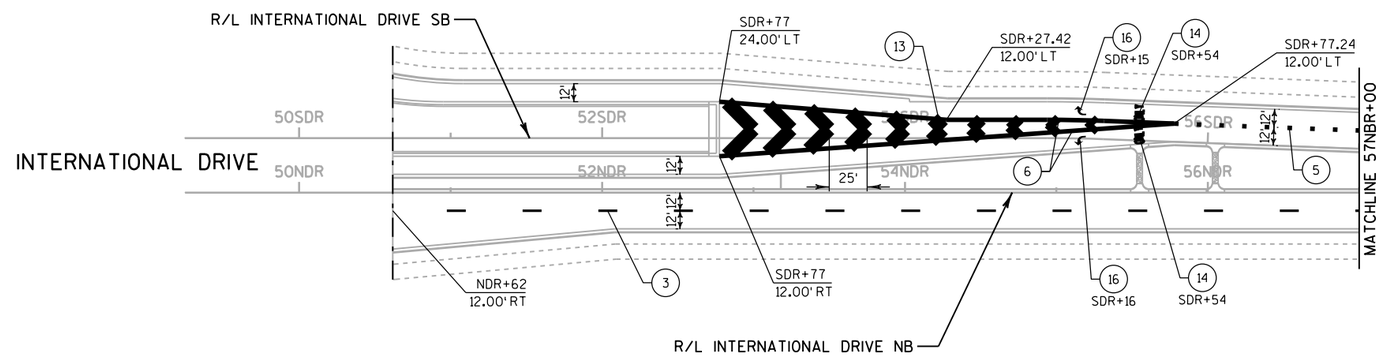
PAGE 1 OF 1

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 110	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr\51\DATA\cds_4023025183.tmp PLOT DATE : 4/23/2025 2:29:55 PM PLOT BY : jmatson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

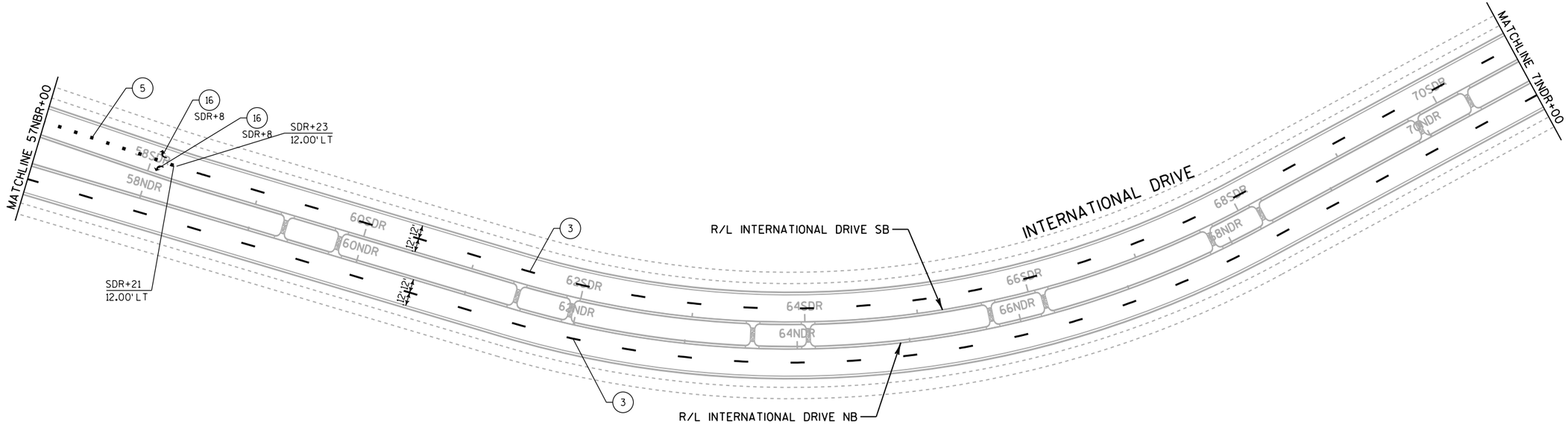


LEGEND

- (3) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (5) MARKING LINE EPOXY 8-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
- (6) MARKING LINE EPOXY 8-INCH (WHITE)
- (13) MARKING CHEVERON EPOXY 24-INCH (WHITE)
- (14) MARKING WORD EPOXY (WHITE)
- (16) MARKING ARROW EPOXY TYPE 2 (WHITE)
- (20) MARKING CURB EPOXY (YELLOW)
- (21) MARKING ISLAND NOSE EPOXY

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RracINE	PAVEMENT MARKINGS	SHEET 111	E

2



LEGEND

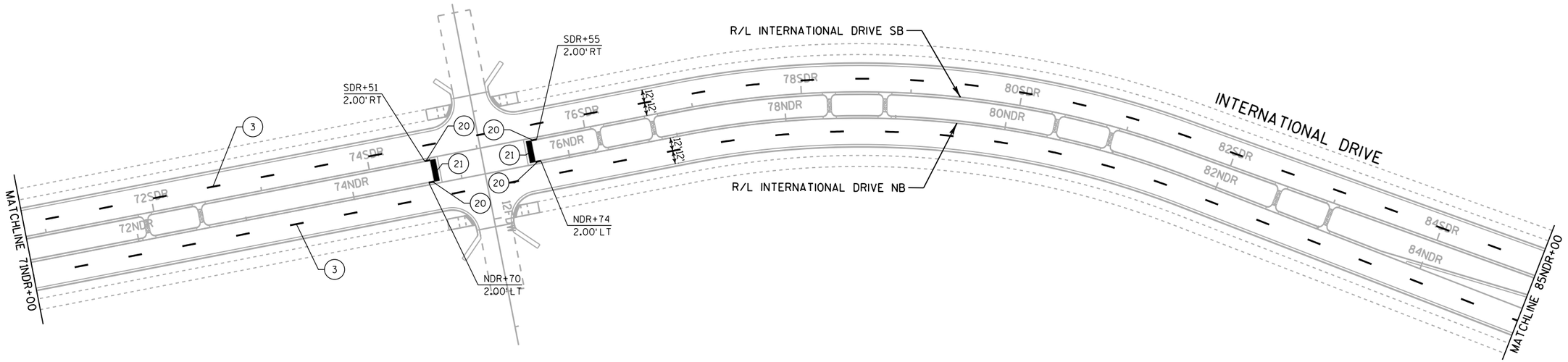
(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(5) MARKING LINE EPOXY 8-INCH (DASHED WHITE)
(3 FT LINE 9 FT SKIP)

(16) MARKING ARROW EPOXY TYPE 2 (WHITE)

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVEMENT MARKINGS	SHEET 112	E

2



LEGEND

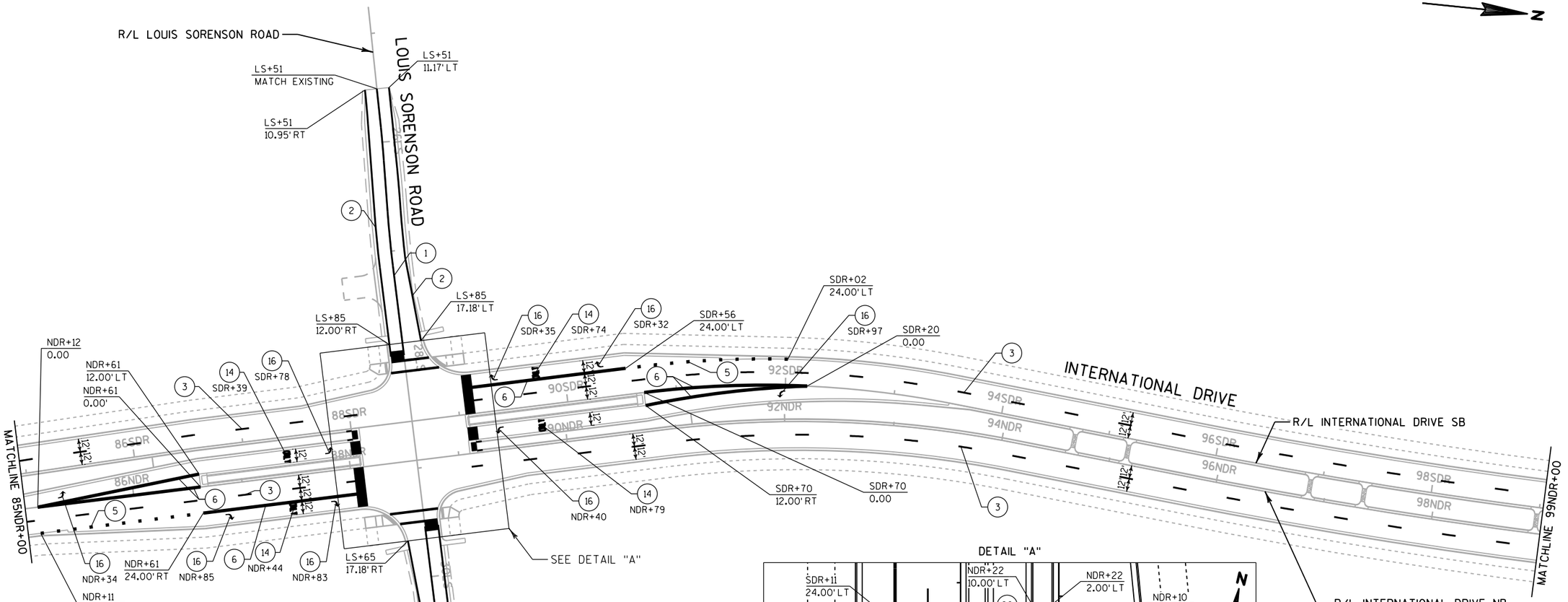
(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(20) MARKING CURB EPOXY (YELLOW)

(21) MARKING ISLAND NOSE EPOXY

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVEMENT MARKINGS	SHEET 113	E

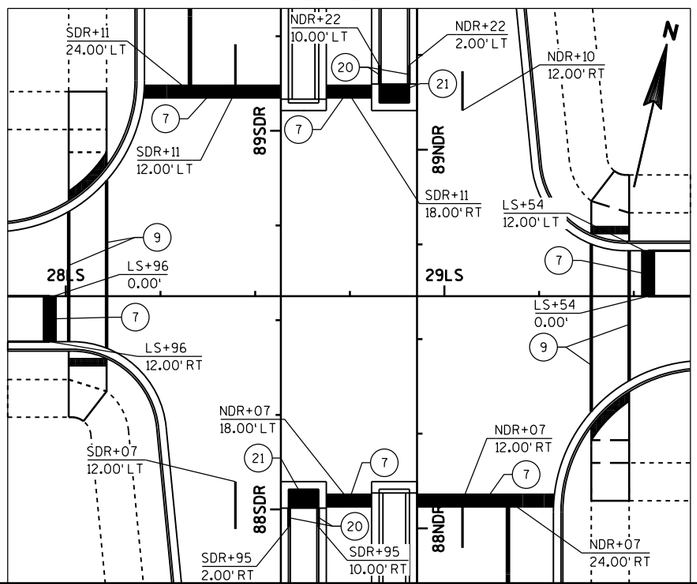
2



LEGEND

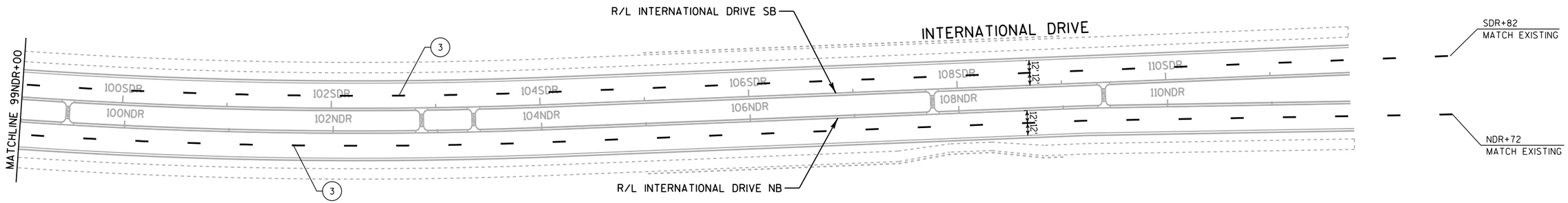
1	MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
3	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
5	MARKING LINE EPOXY 8-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
6	MARKING LINE EPOXY 8-INCH (WHITE)
7	MARKING STOP LINE EPOXY 18-INCH (WHITE)
9	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
14	MARKING WORD EPOXY (WHITE)
16	MARKING ARROW EPOXY TYPE 2 (WHITE)
20	MARKING CURB EPOXY (YELLOW)
21	MARKING ISLAND NOSE EPOXY

DETAIL "A"



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVEMENT MARKINGS	SHEET 114	E

2



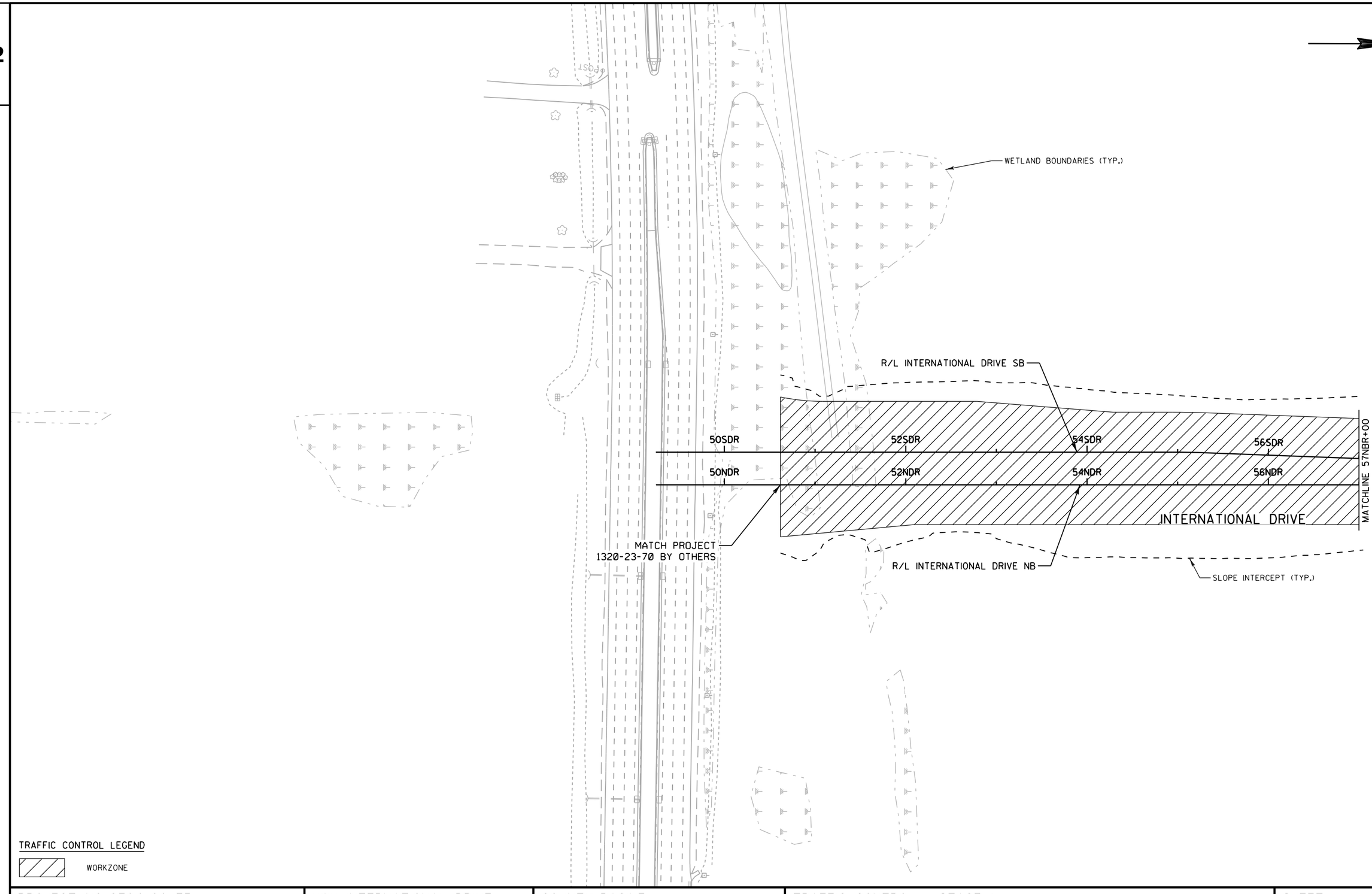
LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

PROJECT NO:2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PAVEMENT MARKINGS	SHEET 115	E

2

N

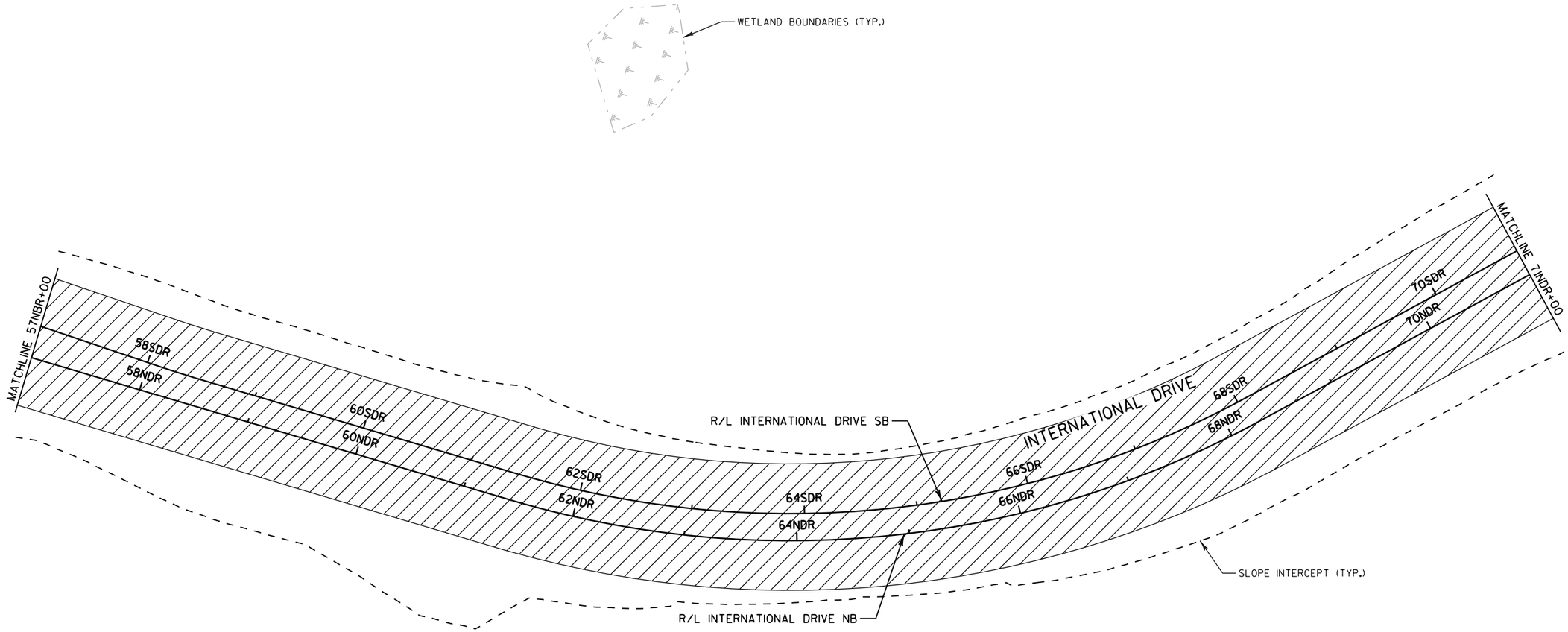


TRAFFIC CONTROL LEGEND

WORKZONE

PROJECT NO:2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 116	E

2

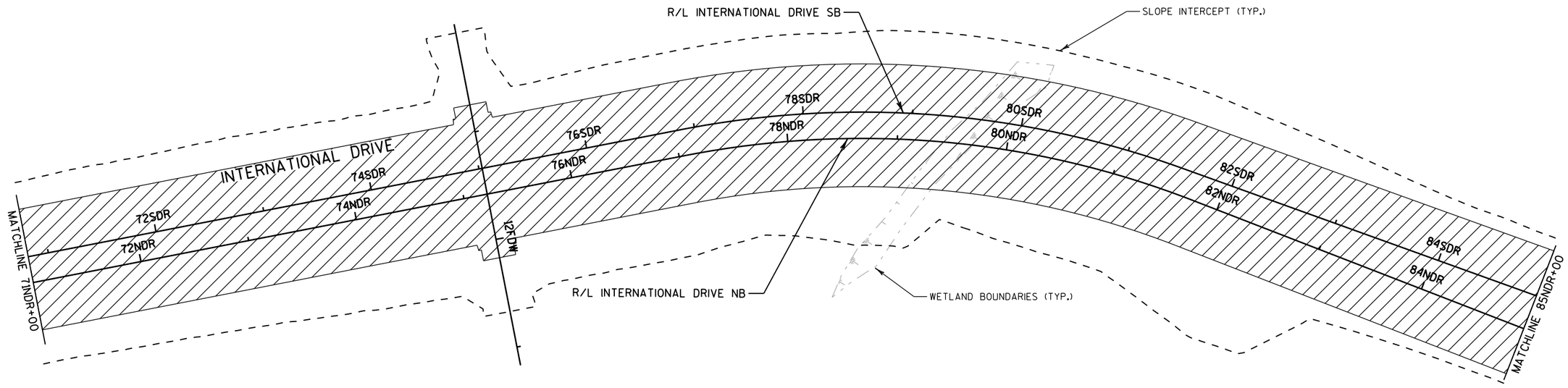


TRAFFIC CONTROL LEGEND

WORKZONE

PROJECT NO:2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 117	E

2



TRAFFIC CONTROL LEGEND

WORKZONE

PROJECT NO:2704-00-75	HWY:INTERNATIONAL DRIVE	COUNTY:RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 118	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr\Plans\Traffic\TC_Stage1.dgn PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

2

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE
PLACE AT SE FRONTAGE ROAD INTERSECTION

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
PLACE EAST OF SECOND DRIVEWAY

50'

28LS

SLOPE INTERCEPT (TYP.)

R/L INTERNATIONAL DRIVE SB

INTERNATIONAL DRIVE

86SDR
86NDR
88SDR
88NDR
90SDR
90NDR
92SDR
92NDR
94SDR
94NDR
96SDR
96NDR
98SDR
98NDR

MATCHLINE 85NDR+00

MATCHLINE 99NDR+00

R/L INTERNATIONAL DRIVE NB

30LS

LOUIS SORENSON ROAD

R/L LOUIS SORENSON ROAD

32LS

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
PLACE WEST OF DRIVEWAY

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE
PLACE AT W ROAD INTERSECTION

N

NOTES:

1. TYPE III BARRICADES ON LOUIS SORENSON ARE ONLY REQUIRED DURING FULL CLOSURE PER THE SPECIFICATIONS.

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADE TYPE III
- WORKZONE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 119	E

2

2

N

WETLAND BOUNDARIES (TYP.)

C-51-84

R/L INTERNATIONAL DRIVE SB

INTERNATIONAL DRIVE

100SDR
100NDR
102SDR
102NDR
104SDR
104NDR
106SDR
106NDR
108SDR
108NDR
110SDR
110NDR

MATCHLINE 99NDR+00

R/L INTERNATIONAL DRIVE NB

SLOPE INTERCEPT (TYP.)

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
PLACE SOUTH OF DRIVEWAYS

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADE TYPE III
- WORKZONE

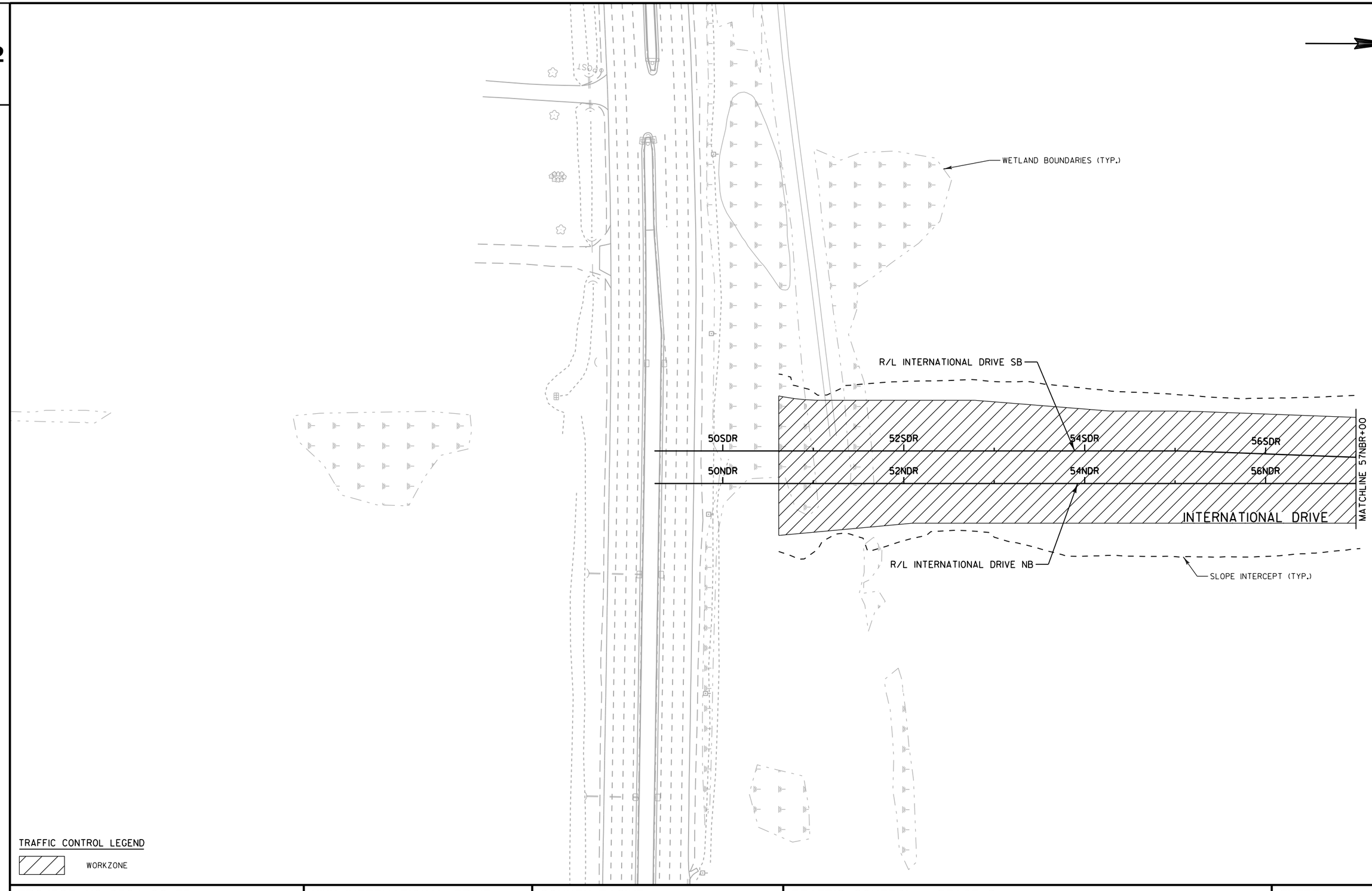
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 120	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Local Roads 40251251s1.dgn PLOT DATE : 4/25/2025 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N



TRAFFIC CONTROL LEGEND

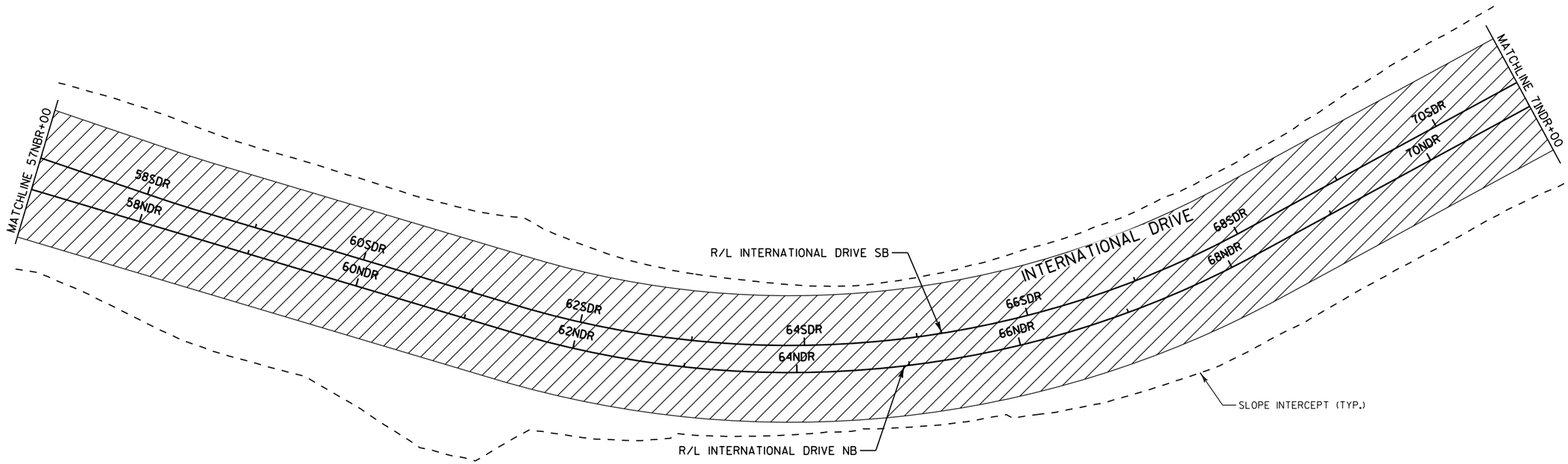
WORKZONE

PROJECT NO:2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2	SHEET 121	E

2

N

WETLAND BOUNDARIES (TYP.)



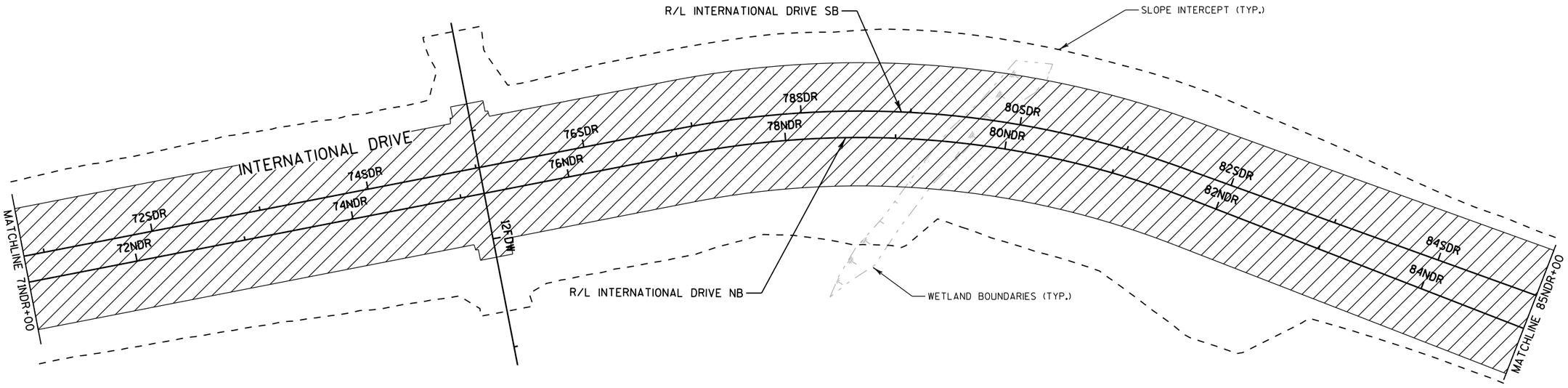
TRAFFIC CONTROL LEGEND

WORKZONE

PROJECT NO:2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\Traffic\4.2_TC_Stage2.dgn PLOT DATE : 4/25/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

2



TRAFFIC CONTROL LEGEND

WORKZONE

PROJECT NO:2704-00-75	HWY:INTERNATIONAL DRIVE	COUNTY:RACINE	TRAFFIC CONTROL - STAGE 2	SHEET 123	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr\DGN\TCds402520318_2.dgn PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE
PLACE AT SE FRONTAGE ROAD INTERSECTION

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
PLACE EAST OF SECOND DRIVEWAY

50'

28LS

POND H

SLOPE INTERCEPT (TYP.)

R/L INTERNATIONAL DRIVE SB

86SDR
86NDR
88SDR
88NDR
90SDR
90NDR
92SDR
92NDR
94SDR
94NDR
96SDR
96NDR
98SDR
98NDR

MATCHLINE 85NDR+00

MATCHLINE 99NDR+00

INTERNATIONAL DRIVE

R/L INTERNATIONAL DRIVE NB

30LS

LOUIS SORENSON ROAD

R/L LOUIS SORENSON ROAD

32LS

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
PLACE WEST OF DRIVEWAY

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE
PLACE AT W ROAD INTERSECTION

NOTES:

1. TYPE III BARRICADES ON LOUIS SORENSON ARE ONLY REQUIRED DURING FULL CLOSURE PER THE SPECIFICATIONS.

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADE TYPE III
- WORKZONE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2	SHEET 124	E

2

N

WETLAND BOUNDARIES (TYP.)

C-51-84

R/L INTERNATIONAL DRIVE SB

INTERNATIONAL DRIVE

MATCHLINE 99NDR+00

100SDR
100NDR
102SDR
102NDR
104SDR
104NDR
106SDR
106NDR
108SDR
INTERNATIONAL DR.
110SDR
110NDR

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
PLACE SOUTH OF DRIVEWAYS

R/L INTERNATIONAL DRIVE NB

SLOPE INTERCEPT (TYP.)

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADE TYPE III
- WORKZONE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2	SHEET 125	E

2

N

INTERNATIONAL DRIVE

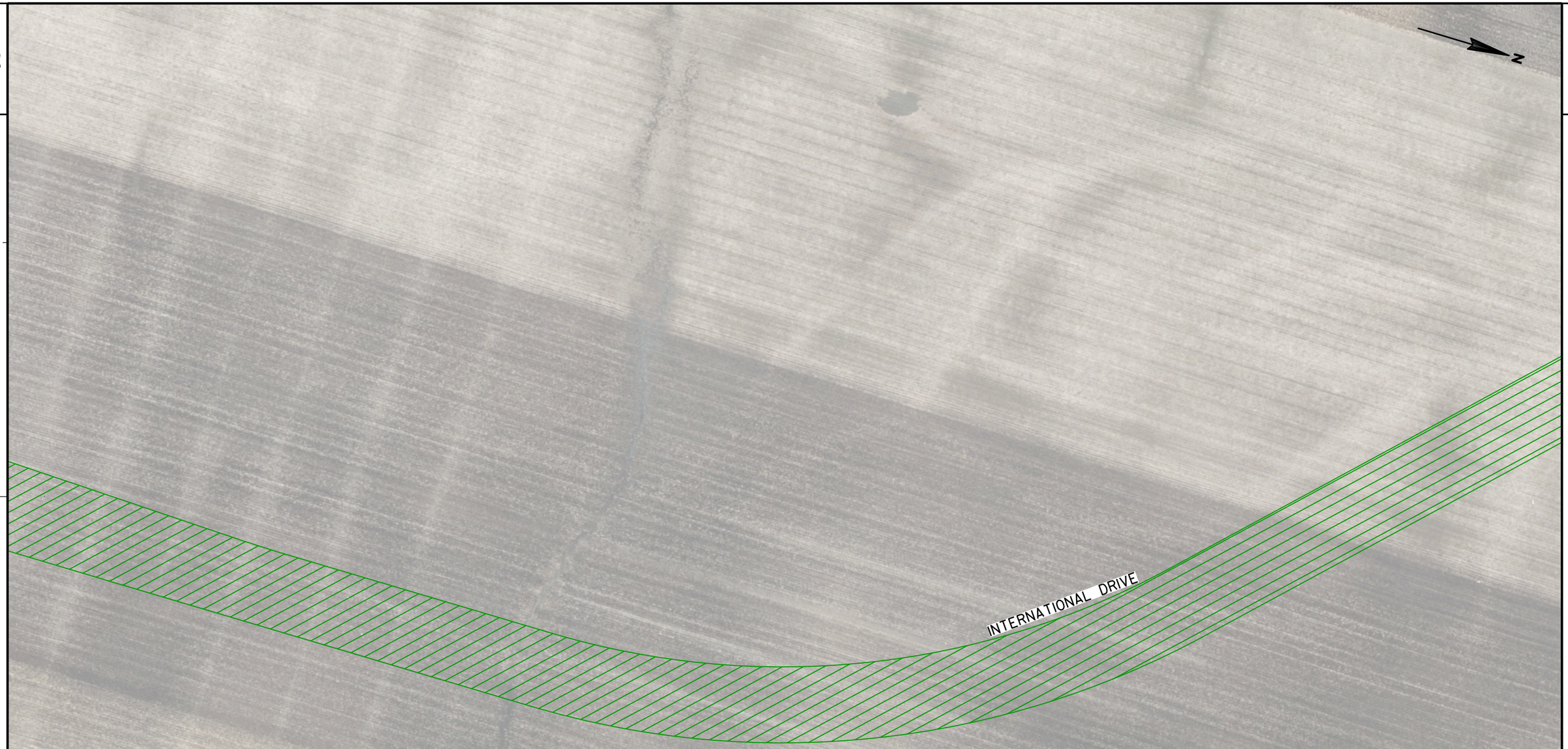
LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 1	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Stage1_Plot.dgn LOG BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

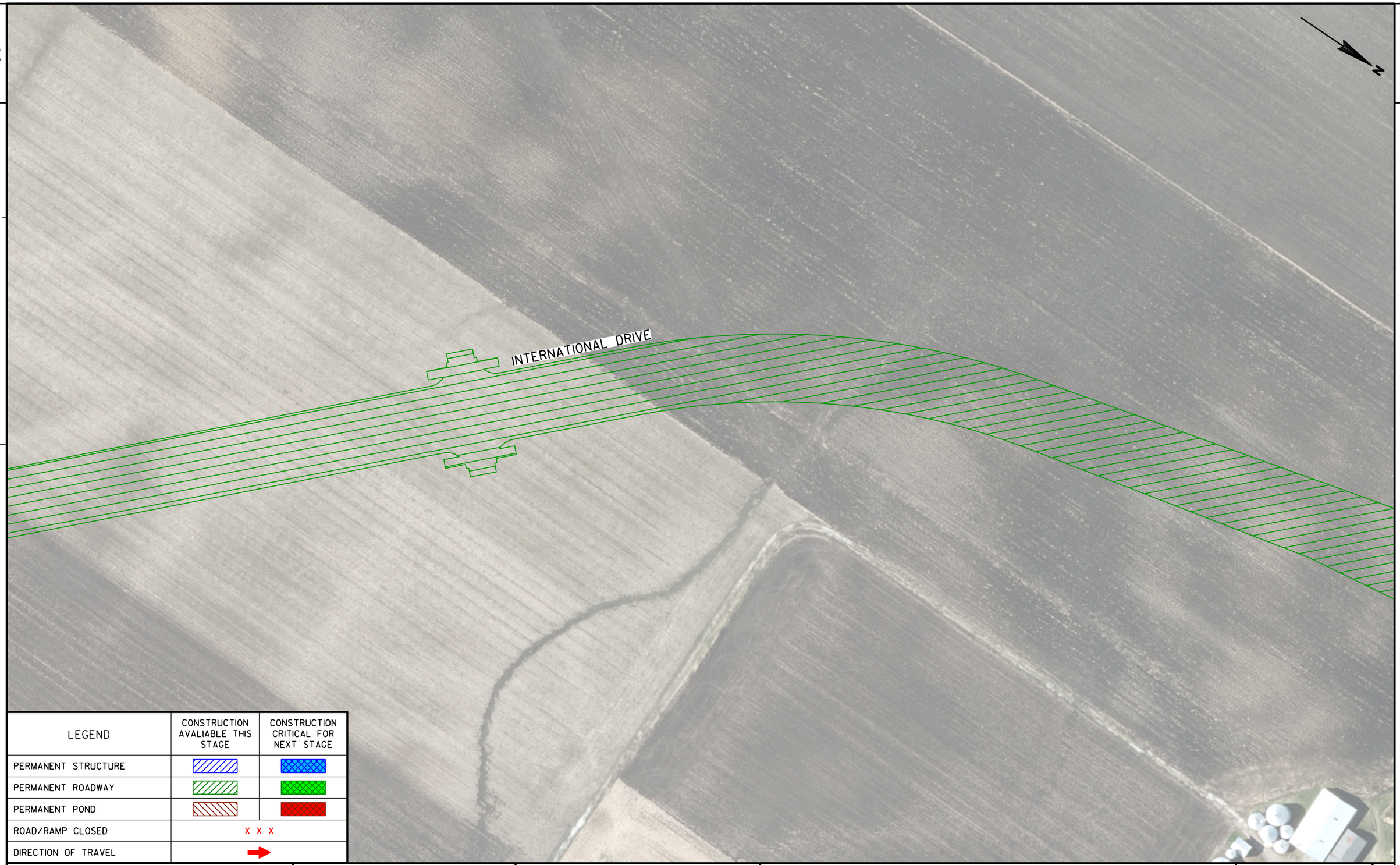


LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 1	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Sheet\Stage1_Sheet.dgn PLOTTED BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42



LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 1	SHEET 128	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Stage1_Signing.dgn PLOTTED BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 1	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Sheets\2704-00-75_Stage1_Exhibit.dgn PLOT DATE : 3/13/2018 3:10:45 PM PLOTTED BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL	→	

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 1	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Color\Stage1_Color.dgn PLOT DATE : 03/12/2018 11:04:54 PLOTTED BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

INTERNATIONAL DRIVE

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 2	SHEET 131	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Stage2_Plot.dgn PLOTTED BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

2

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 2	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Stage2_Stage2.dgn PLOT DATE : 03/12/2018 3:10:46 PM PLOTTED BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 2	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Stage2_Stage2.dgn PLOTTED BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

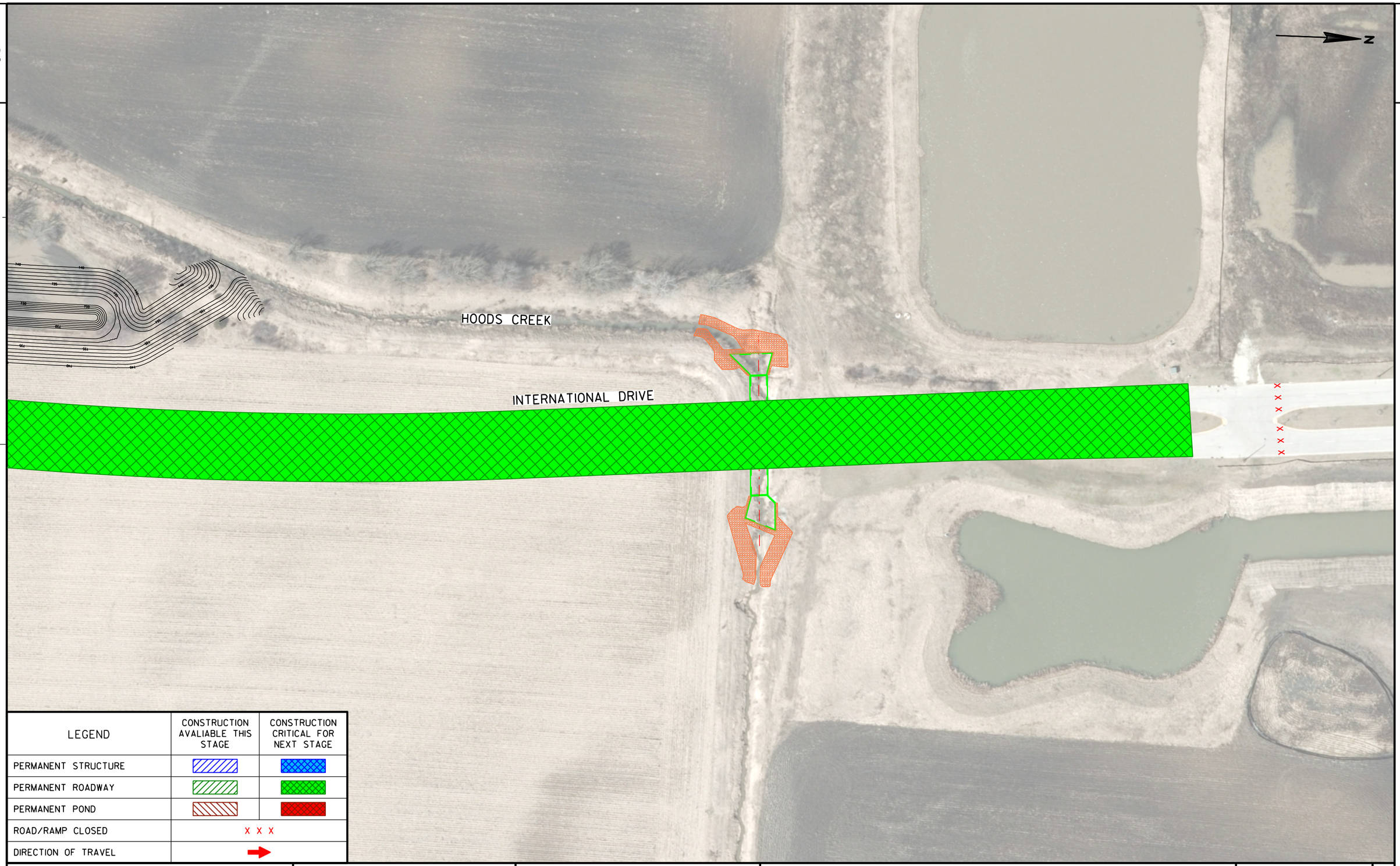
LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 2	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\TSP\Traffic\ts31203e_stage2_plot.dgn PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT STRUCTURE		
PERMANENT ROADWAY		
PERMANENT POND		
ROAD/RAMP CLOSED	X X X	
DIRECTION OF TRAVEL		

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL	COUNTY: RACINE	STAGE 2	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Co_Lo_TSP_Stage2_Exhibit.dgn PLOTTED BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

POINT OF BEGINNING: NDR
PI = 49NDR+24.65
X = 600683.64
Y = 175555.35
AH = N 0° 06' 46" W

POINT OF BEGINNING: SDR
PI = 49SDR+24.49
X = 600647.65
Y = 175555.12
AH = N 0° 06' 46" W

CURVE : SDR-1
PC = 54SDR+93.97
X = 600646.52
Y = 176124.59
PI = 55SDR+12.50
X = 600646.49
Y = 176143.12
PT = 55SDR+31.03
X = 600647.15
Y = 176161.64

R = 988.00'
DELTA = 2°08'57"
D = 5°47'57"
L = 37.06
T = 18.53
E = 0.17
BK = N 0°06'46" W
AH = N 2°02'11" E

N

TLE
PROPOSED R/W
TLE
R/L INTERNATIONAL DRIVE SB
POB SDR
50SDR
N 0°06'46" W
52SDR
54SDR
SDR-1
56SDR
N 2°02'11" E
PC SDR-1
PI SDR-1
PT SDR-1
POB NDR
50NDR
N 0°06'46" W
52NDR
54NDR
56NDR
R/L INTERNATIONAL DRIVE NB
PROPOSED R/W
PLE
TLE

BEGIN PROJECT 2704-00-75
STA 50NDR+61.77
X=600683.37
Y=175692.43

CURVE : NDR-1
PC = 61NDR+42.68
X = 600681.25
Y = 176773.37
PI = 65NDR+03.04
X = 600680.54
Y = 177133.74
PT = 68NDR+25.98
X = 600425.22
Y = 177388.05

R = 870.00'
DELTA = 45°00'00"
D = 6°35'09"
L = 683.30
T = 360.37
E = 71.68
BK = N 0°06'46" W
AH = N 45°06'46" W

CURVE : SDR-2
PC = 58SDR+13.51
X = 600657.18
Y = 176443.95
PI = 58SDR+32.50
X = 600657.86
Y = 176462.92
PT = 58SDR+51.47
X = 600657.82
Y = 176481.90

R = 1012.00'
DELTA = 2°08'57"
D = 5°39'42"
L = 37.96
T = 18.98
E = 0.18
BK = N 2°02'11" E
AH = N 0°06'43" W

CURVE : SDR-3
PC = 61SDR+42.89
X = 600657.25
Y = 176773.33
PI = 64SDR+93.32
X = 600656.56
Y = 177123.75
PT = 68SDR+07.34
X = 600408.28
Y = 177371.05

R = 846.00'
DELTA = 45°00'00"
D = 6°46'21"
L = 664.45
T = 350.42
E = 69.70
BK = N 0°06'46" W
AH = N 45°06'46" W

N

72SDR
72NDR
70SDR N 45°06'46" W
70NDR N 45°06'46" W
TLE
PROPOSED R/W
PT SDR-3
68SDR
68NDR
PT NDR-1
56SDR
N 2°02'11" E
56NDR
N 0°06'46" W
PC SDR-2
PI SDR-2
58SDR
PT SDR-2
58NDR SDR-2
N 0°06'46" W
60SDR
60NDR
PC SDR-3
62SDR
R/L INTERNATIONAL DRIVE SB
62NDR
64SDR
SDR-3
66SDR
66NDR
64NDR
NDR-1
PC NDR-1
PROPOSED R/W
PLE
TLE
R/L INTERNATIONAL DRIVE NB
PI SDR-3
PI NDR-1
PLE
TLE

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	ALIGNMENT PLAN- INTERNATIONAL	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\Alignment\ALIGNMENT_Leads_04272018d.dgn PLOT DATE : 4/27/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

CURVE : NDR-2
PC = 77NDR+07.23
X = 599800.85
Y = 178009.96
PI = 79NDR+48.07
X = 599630.21
Y = 178179.93
PT = 81NDR+76.16
X = 599576.46
Y = 178414.70

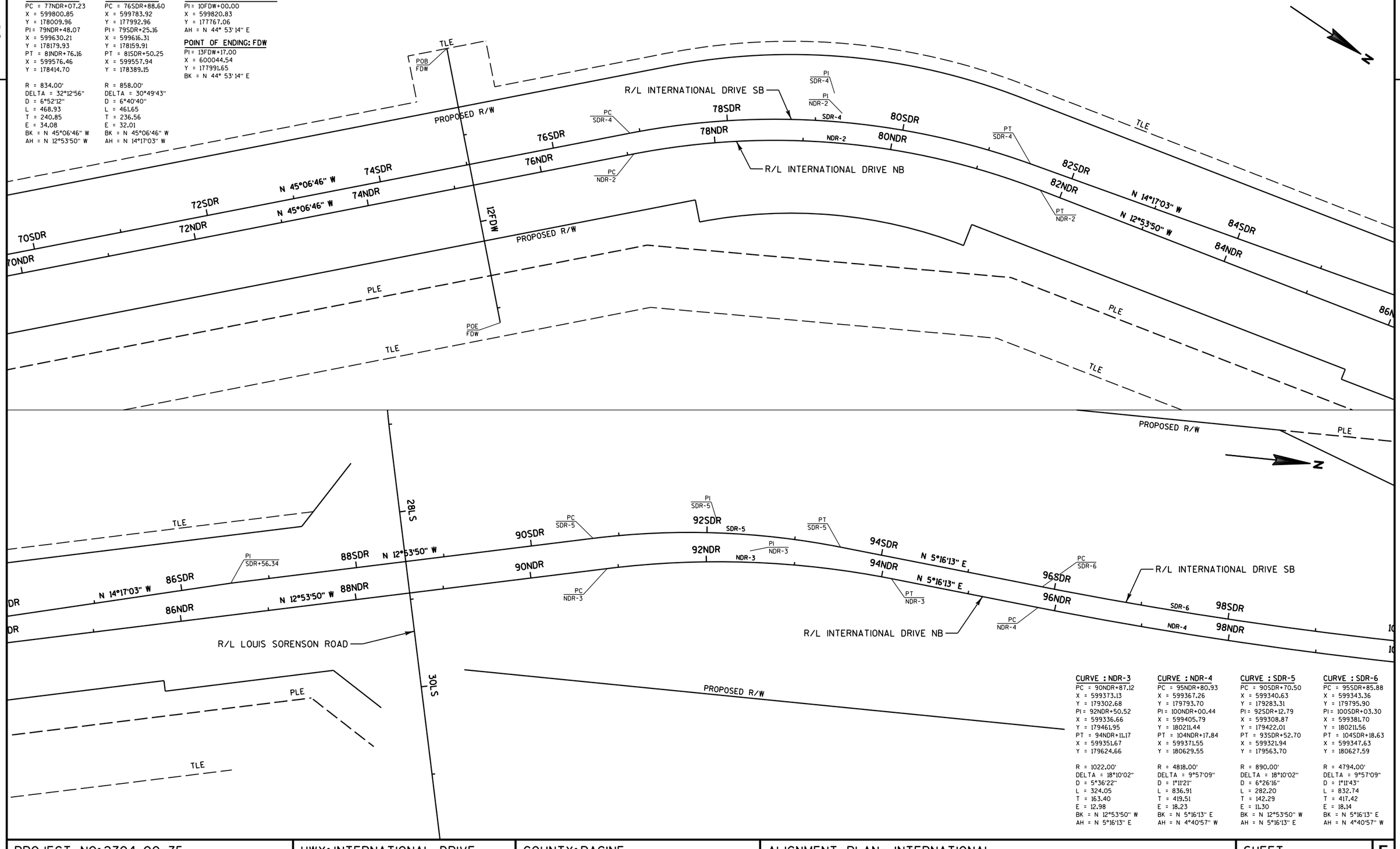
R = 834.00'
DELTA = 32°12'56"
D = 6°52'12"
L = 468.93
T = 240.85
E = 34.08
BK = N 45°06'46" W
AH = N 12°53'50" W

CURVE : SDR-4
PC = 76SDR+88.60
X = 599783.92
Y = 177992.96
PI = 79SDR+25.16
X = 599616.31
Y = 178159.91
PT = 81SDR+50.25
X = 599557.94
Y = 178389.15

R = 858.00'
DELTA = 30°49'43"
D = 6°40'40"
L = 461.65
T = 236.56
E = 32.01
BK = N 45°06'46" W
AH = N 14°17'03" W

POINT OF BEGINNING: FDW
PI = 10FDW+00.00
X = 599820.83
Y = 177767.06
AH = N 44° 53' 14" E

POINT OF ENDING: FDW
PI = 13FDW+17.00
X = 600044.54
Y = 177991.65
BK = N 44° 53' 14" E



CURVE : NDR-3
PC = 90NDR+87.12
X = 599373.13
Y = 179302.68
PI = 92NDR+50.52
X = 599336.66
Y = 179461.95
PT = 94NDR+11.17
X = 599351.67
Y = 179624.66

R = 1022.00'
DELTA = 18°10'02"
D = 5°36'22"
L = 324.05
T = 163.40
E = 12.98
BK = N 12°53'50" W
AH = N 5°16'13" E

CURVE : NDR-4
PC = 95NDR+80.93
X = 599367.26
Y = 179793.70
PI = 100NDR+00.44
X = 599405.79
Y = 180211.44
PT = 104NDR+17.84
X = 599371.55
Y = 180629.55

R = 4818.00'
DELTA = 9°57'09"
D = 1°11'21"
L = 836.91
T = 419.51
E = 18.23
BK = N 5°16'13" E
AH = N 4°40'57" W

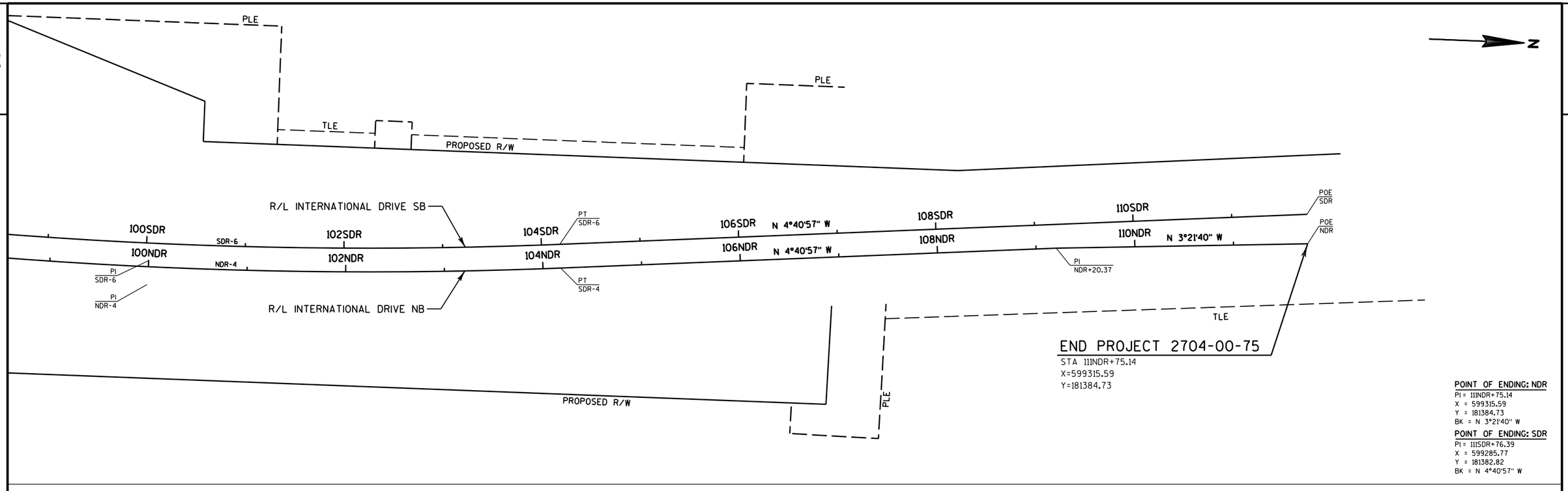
CURVE : SDR-5
PC = 90SDR+70.50
X = 599340.63
Y = 179283.31
PI = 92SDR+12.79
X = 599308.87
Y = 179422.01
PT = 93SDR+52.70
X = 599321.94
Y = 179563.70

R = 890.00'
DELTA = 18°10'02"
D = 6°26'16"
L = 282.20
T = 142.29
E = 11.30
BK = N 12°53'50" W
AH = N 5°16'13" E

CURVE : SDR-6
PC = 95SDR+85.88
X = 599343.36
Y = 179795.90
PI = 100SDR+03.30
X = 599381.70
Y = 180211.56
PT = 104SDR+18.63
X = 599347.63
Y = 180627.59

R = 4794.00'
DELTA = 9°57'09"
D = 1°11'43"
L = 832.74
T = 417.42
E = 18.14
BK = N 5°16'13" E
AH = N 4°40'57" W

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	ALIGNMENT PLAN- INTERNATIONAL	SHEET 137 E



POINT OF ENDING: NDR
PI = 111NDR+75.14
X = 599315.59
Y = 181384.73
BK = N 3°21'40" W

POINT OF ENDING: SDR
PI = 111SDR+76.39
X = 599285.77
Y = 181382.82
BK = N 4°40'57" W

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	ALIGNMENT PLAN- INTERNATIONAL	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International_Dr_ALT_cds4028220318.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

POINT OF BEGINNING: LS
PI = 24LS+75.74
X = 599015.62
Y = 178996.12
AH = N 78° 12' 21" E

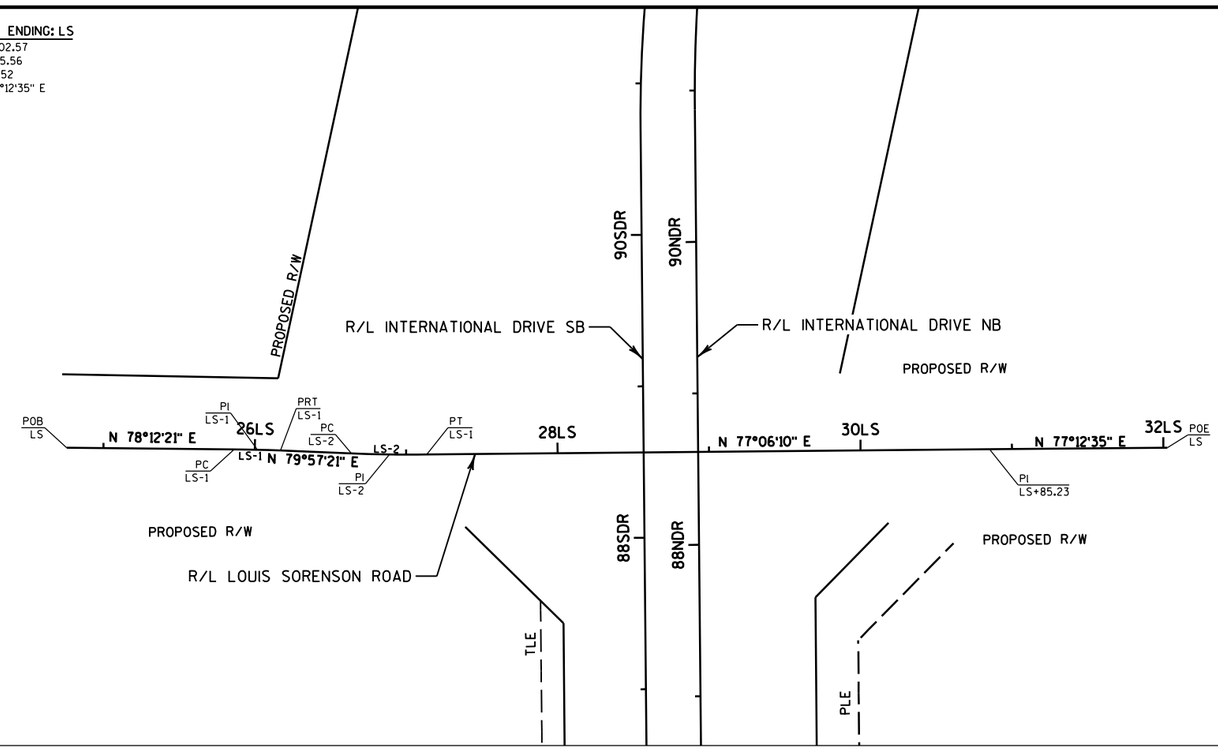
CURVE : LS-1
PC = 25LS+86.33
X = 599123.87
Y = 179018.72
PI = 26LS+01.60
X = 599138.82
Y = 179021.84
PT = 26LS+16.87
X = 599153.86
Y = 179024.51

R = 1000.00'
DELTA = 1°45'00"
D = 5°43'46"
L = 30.54
T = 15.27
E = 0.12
BK = N 78°12'21" E
AH = N 79°57'21" E

CURVE : LS-2
PC = 26LS+63.79
X = 599200.06
Y = 179032.69
PI = 26LS+88.69
X = 599224.58
Y = 179037.03
PT = 27LS+13.58
X = 599248.86
Y = 179042.59

R = 1000.00'
DELTA = 2°51'11"
D = 5°43'46"
L = 49.80
T = 24.90
E = 0.31
BK = N 79°57'21" E
AH = N 77°06'10" E

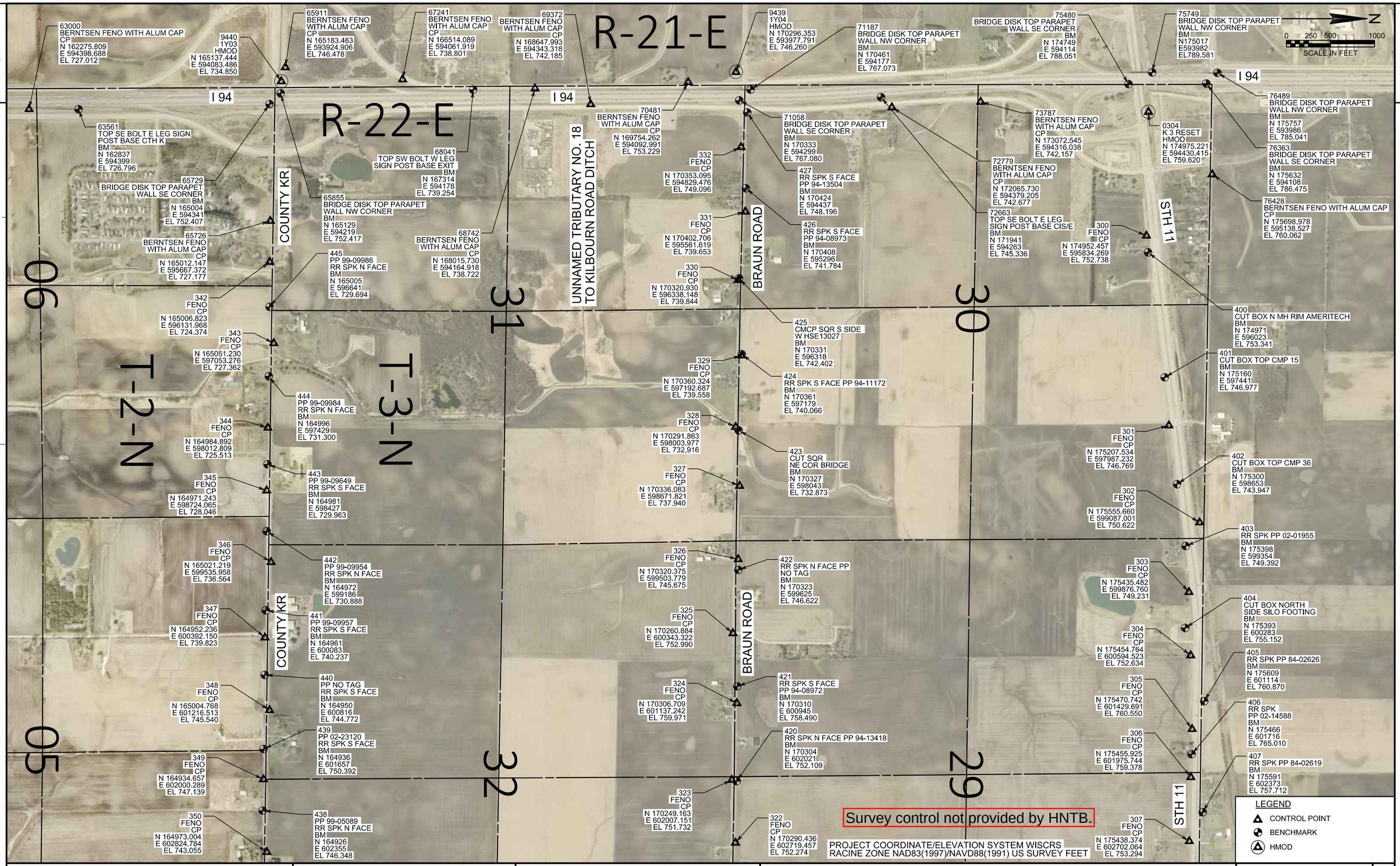
POINT OF ENDING: LS
PI = 32LS+02.57
X = 599725.56
Y = 179151.52
BK = N 77°12'35" E



2

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	ALIGNMENT PLAN- LOUIS SORENSON	SHEET	E

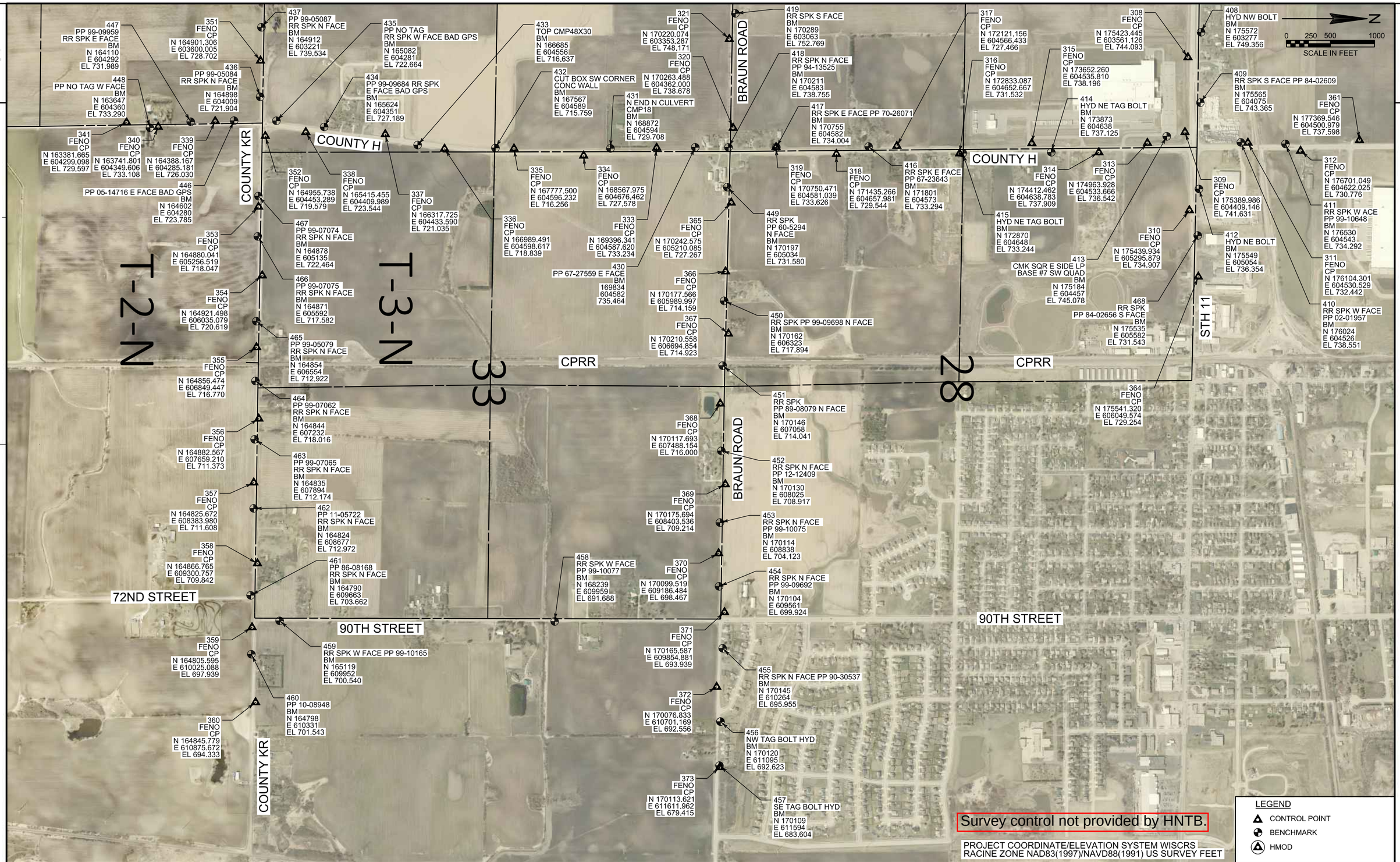
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr SB and NB Roads 4.28.22.18.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1



PROJECT NO: FOXCONN DEVELOPMENT	HWY: VARIES	COUNTY: RACINE	CONTROL AND BENCHMARK OVERVIEW	SHEET 140	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\Displays\CONTROL AND BENCHMARK DISPLAY\CONTROL AND BENCHMARKS DISPLAY SHT 1.dgn PLOT DATE : 3/29/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:1000

WISDOT/CADDS SHEET 42



PROJECT NO: FOXCONN DEVELOPMENT	HWY: VARIES	COUNTY: RACINE	CONTROL AND BENCHMARK OVERVIEW	SHEET 141	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\Displays\CONTROL AND BENCHMARK DISPLAY\CONTROL AND BENCHMARKS DISPLAY SHT 2.dgn PLOT DATE : 3/29/2018 PLOT BY : wwoldk PLOT NAME : PLOT SCALE : 1:1000

WISDOT/CADDS SHEET 42

2704-00-75

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	201.0105	Clearing	STA	17.000	17.000
0006	201.0205	Grubbing	STA	17.000	17.000
0008	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	333.000	333.000
0012	204.0120	Removing Asphaltic Surface Milling	SY	11,637.000	11,637.000
0014	204.0170	Removing Fence **P**	LF	30.000	30.000
0016	204.0220	Removing Inlets	EACH	1.000	1.000
0018	204.0245	Removing Storm Sewer (size) 001. 15-Inch	LF	240.000	240.000
0020	204.0245	Removing Storm Sewer (size) 002. 84-Inch	LF	167.000	167.000
0022	204.0280	Sealing Pipes	EACH	1.000	1.000
0024	204.9090.S	Removing (item description) 001. Draintile	LF	7,000.000	7,000.000
0026	205.0100	Excavation Common	CY	75,574.000	75,574.000
0028	206.2000	Excavation for Structures Culverts (structure) 001. C-51-84	LS	1.000	1.000
0030	210.2500	Backfill Structure Type B	TON	4,192.000	4,192.000
0032	213.0100	Finishing Roadway (project) 001. 2704-00-75	EACH	1.000	1.000
0034	305.0110	Base Aggregate Dense 3/4-Inch	TON	63.000	63.000
0036	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	22,837.000	22,837.000
0038	311.0110	Breaker Run	TON	42,993.000	42,993.000
0040	415.0100	Concrete Pavement 10-Inch **P**	SY	36,458.000	36,458.000
0042	415.4100	Concrete Pavement Joint Filling	SY	36,458.000	36,458.000
0044	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1.000
0046	416.1010	Concrete Surface Drains	CY	408.000	408.000
0048	440.4410	Incentive IRI Ride	DOL	9,265.000	9,265.000
0050	455.0605	Tack Coat	GAL	1,048.000	1,048.000
0052	460.2000	Incentive Density HMA Pavement	DOL	1,518.000	1,518.000
0054	460.5223	HMA Pavement 3 LT 58-28 S	TON	287.000	287.000
0056	460.5224	HMA Pavement 4 LT 58-28 S	TON	1,610.000	1,610.000
0058	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	2.000	2.000
0060	465.0125	Asphaltic Surface Temporary	TON	148.000	148.000
0062	465.0315	Asphaltic Flumes	SY	45.000	45.000
0064	495.1000.S	Cold patch	TON	7.000	7.000
0066	504.0100	Concrete Masonry Culverts **P**	CY	418.000	418.000
0068	505.0400	Bar Steel Reinforcement HS Structures	LB	50,060.000	50,060.000
0070	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	8,350.000	8,350.000
0072	516.0500	Rubberized Membrane Waterproofing **P**	SY	50.000	50.000
0074	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0076	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	17.000	17.000
0078	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	131.000	131.000

2704-00-75

Line	Item	Item Description	Unit	Total	Qty
0080	522.0512	Culvert Pipe Reinforced Concrete Class V 12-Inch	LF	30.000	30.000
0082	522.0524	Culvert Pipe Reinforced Concrete Class V 24-Inch	LF	396.000	396.000
0084	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0086	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	3.000	3.000
0088	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	13.000	13.000
0090	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0092	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	2.000	2.000
0094	522.1060	Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	EACH	1.000	1.000
0096	601.0409	Concrete Curb & Gutter 30-Inch Type A **P**	LF	23,248.000	23,248.000
0098	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A **P**	LF	1,009.000	1,009.000
0100	602.0410	Concrete Sidewalk 5-Inch **P**	SF	14,323.000	14,323.000
0102	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	40.000	40.000
0104	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	146.000	146.000
0106	606.0200	Riprap Medium	CY	435.100	435.100
0108	606.0300	Riprap Heavy	CY	488.800	488.800
0110	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	39.000	39.000
0112	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	3,005.000	3,005.000
0114	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	940.000	940.000
0116	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	996.000	996.000
0118	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	213.000	213.000
0120	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	1,822.000	1,822.000
0122	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	169.000	169.000
0124	608.0354	Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	LF	857.000	857.000
0126	608.0360	Storm Sewer Pipe Reinforced Concrete Class III 60-Inch	LF	157.000	157.000
0128	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	517.000	517.000
0130	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-	LF	96.000	96.000

Line	Item	Item Description	Unit	Total	Qty
		Inch			
0132	608.0484	Storm Sewer Pipe Reinforced Concrete Class IV 84-Inch	LF	149.000	149.000
0134	608.0515	Storm Sewer Pipe Reinforced Concrete Class V 15-Inch	LF	32.000	32.000
0136	611.0530	Manhole Covers Type J	EACH	39.000	39.000
0138	611.0535	Manhole Covers Type J-Special	EACH	1.000	1.000
0140	611.0624	Inlet Covers Type H	EACH	106.000	106.000
0142	611.0627	Inlet Covers Type HM	EACH	8.000	8.000
0144	611.0639	Inlet Covers Type H-S	EACH	4.000	4.000
0146	611.0642	Inlet Covers Type MS	EACH	2.000	2.000
0148	611.2004	Manholes 4-FT Diameter	EACH	123.000	123.000
0150	611.2005	Manholes 5-FT Diameter	EACH	7.000	7.000
0152	611.2006	Manholes 6-FT Diameter	EACH	13.000	13.000
0154	611.2008	Manholes 8-FT Diameter	EACH	7.000	7.000
0156	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0158	611.9800.S	Pipe Grates	EACH	13.000	13.000
0160	612.0204	Pipe Underdrain Unperforated 4-Inch	LF	42.000	42.000
0162	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	1,121.000	1,121.000
0164	612.0208	Pipe Underdrain Unperforated 8-Inch	LF	50.000	50.000
0166	612.0700	Drain Tile Exploration	LF	4,000.000	4,000.000
0168	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	1.000	1.000
0170	616.0700.S	Fence Safety	LF	3,000.000	3,000.000
0172	619.1000	Mobilization	EACH	1.000	1.000
0174	620.0300	Concrete Median Sloped Nose **P**	SF	996.000	996.000
0176	623.0200	Dust Control Surface Treatment	SY	125,709.000	125,709.000
0178	624.0100	Water	MGAL	3,300.000	3,300.000
0180	627.0200	Mulching	SY	8,400.000	8,400.000
0182	628.1104	Erosion Bales	EACH	310.000	310.000
0184	628.1504	Silt Fence	LF	12,806.000	12,806.000
0186	628.1520	Silt Fence Maintenance	LF	13,658.000	13,658.000
0188	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0190	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0192	628.2008	Erosion Mat Urban Class I Type B	SY	88,559.000	88,559.000
0194	628.6510	Soil Stabilizer Type B	ACRE	18.400	18.400
0196	628.7005	Inlet Protection Type A	EACH	121.000	121.000
0198	628.7020	Inlet Protection Type D	EACH	119.000	119.000
0200	628.7504	Temporary Ditch Checks	LF	816.000	816.000
0202	628.7555	Culvert Pipe Checks	EACH	26.000	26.000
0204	628.7560	Tracking Pads	EACH	6.000	6.000

2704-00-75

Line	Item	Item Description	Unit	Total	Qty
0206	629.0210	Fertilizer Type B	CWT	57.750	57.750
0208	630.0140	Seeding Mixture No. 40	LB	1,594.000	1,594.000
0210	630.0200	Seeding Temporary	LB	1,594.000	1,594.000
0212	633.5200	Markers Culvert End	EACH	22.000	22.000
0214	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	42.000	42.000
0216	637.0620	Sign Flags Permanent Type II	EACH	4.000	4.000
0218	637.2210	Signs Type II Reflective H	SF	214.500	214.500
0220	637.2230	Signs Type II Reflective F	SF	17.500	17.500
0222	638.2602	Removing Signs Type II	EACH	12.000	12.000
0224	638.3000	Removing Small Sign Supports	EACH	12.000	12.000
0226	640.1303.S	Pond Liner Clay	CY	5,703.000	5,703.000
0228	643.0410	Traffic Control Barricades Type II	DAY	1.000	1.000
0230	643.0420	Traffic Control Barricades Type III	DAY	5,318.000	5,318.000
0232	643.0705	Traffic Control Warning Lights Type A	DAY	10,636.000	10,636.000
0234	643.0900	Traffic Control Signs	DAY	1,131.000	1,131.000
0236	643.5000	Traffic Control	EACH	1.000	1.000
0238	645.0105	Geotextile Type C	SY	650.000	650.000
0240	645.0120	Geotextile Type HR	SY	1,929.000	1,929.000
0242	645.0220	Geogrid Type SR	SY	26,184.000	26,184.000
0244	646.1020	Marking Line Epoxy 4-Inch **P**	LF	14,747.000	14,747.000
0246	646.3020	Marking Line Epoxy 8-Inch **P**	LF	1,629.000	1,629.000
0248	646.5020	Marking Arrow Epoxy	EACH	14.000	14.000
0250	646.5120	Marking Word Epoxy	EACH	10.000	10.000
0252	646.6120	Marking Stop Line Epoxy 18-Inch	LF	120.000	120.000
0254	646.7220	Marking Chevron Epoxy 24-Inch	LF	264.000	264.000
0256	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	157.000	157.000
0258	646.8120	Marking Curb Epoxy	LF	40.000	40.000
0260	646.8220	Marking Island Nose Epoxy	EACH	4.000	4.000
0262	649.0105	Temporary Marking Line Paint 4-Inch	LF	1,500.000	1,500.000
0264	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	6,154.000	6,154.000
0266	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	323.000	323.000
0268	653.0135	Pull Boxes Steel 24x36-Inch	EACH	5.000	5.000
0270	654.0105	Concrete Bases Type 5	EACH	31.000	31.000
0272	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
0274	655.0230	Cable Traffic Signal 5-14 AWG	LF	1.000	1.000
0276	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	31.000	31.000
0278	690.0150	Sawing Asphalt	LF	92.000	92.000
0280	715.0415	Incentive Strength Concrete Pavement	DOL	3,038.000	3,038.000
0282	SPV.0035	Special 001. Roadway Embankment	CY	129,399.000	129,399.000
0284	SPV.0035	Special 002. EBS Excavation	CY	8,728.000	8,728.000

2704-00-75

Line	Item	Item Description	Unit	Total	Qty
0286	SPV.0035	Special 003. EBS Backfill	CY	8,728.000	8,728.000
0288	SPV.0060	Special 001. Temporary Stone Ditch Checks	EACH	10.000	10.000
0290	SPV.0060	Special 002. Sand Bags	EACH	30.000	30.000
0292	SPV.0060	Special 003. Temporary Sediment Traps	EACH	3.000	3.000
0294	SPV.0060	Special 009. Section Corner Monuments	EACH	2.000	2.000
0296	SPV.0060	Special 012. Connect Drain Tile	EACH	15.000	15.000
0298	SPV.0060	Special 013. Manholes 2-FT Diameter	EACH	5.000	5.000
0300	SPV.0060	Special 014. Manholes 9-FT Diameter	EACH	2.000	2.000
0302	SPV.0075	Special 001. Pavement Cleanup Project 2704-00-75	HRS	20.000	20.000
0304	SPV.0090	Special 001. Heavy Duty Silt Fence	LF	852.000	852.000
0306	SPV.0090	Special 002. Pipe Underdrain 6-Inch Special	LF	1,300.000	1,300.000
0308	SPV.0105	Special 001. Temporary Water Diversion Culvert C-51-84	LS	1.000	1.000
0310	SPV.0105	Special 002. Survey Project 2704-00-75	LS	1.000	1.000
0312	SPV.0105	Special 730. Water Tap Service and Irrigation System	LS	1.000	1.000
0314	SPV.0170	Special 001. Removal and Disposal of Invasive Plant Species	STA	4.000	4.000
0316	SPV.0180	Special 001. Topsoil Special	SY	88,559.000	88,559.000
0318	SPV.0195	Special 009. Excavation, Hauling, and Disposal of Contaminated Soil	TON	10.000	10.000

3

CLEARING & GRUBBING

ROADWAY	STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
STAGE 1				
INTERNATIONAL DRIVE	90SDR+00 - 92SDR+00	LT	2	2
	90SDR+00 - 101SDR+00	LT	11	11
	93SDR+00 - 94SDR+00	LT	1	1
	99SDR+00 - 100SDR+00	LT	1	1
	108SDR+00 - 110SDR+00	LT	2	2
LOUIS SORENSON ROAD	30LS+00 - 32LS+00	RT	2	2
STAGE 1 SUBTOTAL			17	17
PROJECT 2704-00-75 TOTAL			17	17

REMOVING STORM SEWER ITEMS

ROADWAY	STATION	OFFSET	204.0220 REMOVING INLETS EACH	204.0245.001 REMOVING STORM SEWER 15-INCH LF	204.0245.002 REMOVING STORM SEWER 84-INCH LF	204.9090.S.001 REMOVING DRAIN TILE LF
STAGE 1						
INTERNATIONAL DRIVE	50NDR+62 - 11NDR+75	RT/LT	--	--	--	7,000
	106SDR+85 - 107SDR+41	RT/LT	--	--	167	--
LOUIS SORENSON ROAD	25LS+45 - 27LS+85	LT	--	240	--	--
	26LS+86	LT	1	--	--	--
STAGE 1 SUBTOTAL			1	240	167	7,000
PROJECT 2704-00-75 TOTAL			1	240	167	7,000

3

REMOVING SMALL PIPE CULVERT

ROADWAY	STATION BEGIN	STATION END	OFFSET	203.1000 REMOVING SMALL PIPE CULVERT EACH
STAGE 2				
LOUIS SORENSON ROAD	27LS+18 -	27LS+40	RT	1
STAGE 2 SUBTOTAL				1
PROJECT 2704-00-75 TOTAL				1

REMOVING FENCING

ROADWAY	STATION	OFFSET	204.0170 REMOVING FENCE LF
STAGE 1			
INTERNATIONAL DRIVE	89SDR+88 - 90SDR+17	LT	30
STAGE 1 SUBTOTAL			30
PROJECT 2704-00-75 TOTAL			30

CPM PROGRESS SCHEDULE

ROADWAY	108.4400 CPM PROGRESS SCHEDULE EACH
PROJECT 2704-00-75	1
PROJECT 2704-00-75 TOTAL	1

REMOVING ASPHALTIC SURFACE

ROADWAY	FROM	TO	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
LOUIS SORENSON ROAD	EAST FRONTAGE ROAD	INTERNATIONAL DRIVE	333	11,637
UNDISTRIBUTED			333	11,637
PROJECT 2704-00-75 TOTAL			333	11,637

FENCING

ROADWAY	616.0700.S FENCE SAFETY LF
PROJECT 2704-00-75	3,000
PROJECT 2704-00-75 TOTAL	3,000

Category	Division	From/To Station	Location	Excavation Common (CY) (1) 205.0100			Roadway Embankment (CY) (4) SPV.0035.001	Mass Ordinate +/- (5)	EBS Excavation (CY) (3) SPV.0035.002	Comment:
				Cut (CY) (2)	Topsoil Removal (CY)	Topsoil Special 6-inch (CY) (6) SPV.0180.001				
1000	1	89+20 - 108+00	INTERNATIONAL DRIVE	34,473	12,993	-6,465	39,917	-5,444		Pond H & Box Culvert
		89+20 - 108+00	UNDISTRIBUTED	5,171			3,992	1,179	2,599	
	Project 2704-00-75 - Division 1 Subtotal			39,644	12,993	-6,465	43,909	-4,265	2,599	
	Project 2704-00-75 - Division 1 Total				46,172		43,909	-4,265	2,599	
1000	2	50+62 - 111+50	INTERNATIONAL DRIVE	4,809	28,570	-7,352	77,404	-72,594	0	
		25+55 - 31+85	LOUIS SORENSON DRIVE	1,323	2,076	-240	315	1,008		
		50+62 - 111+50	UNDISTRIBUTED	920		-703	7,772	-6,852	6,129	
	Project 2704-00-75 - Division 2 Subtotal			7,052	30,646	-8,295	85,490	-78,438	6,129	
	Project 2704-00-75 - Division 2 Total				29,402		85,490	-78,438	6,129	
Project 2704-00-75 Totals					**75,574**		**129,399**	**-82,704**	**8,728**	

1) Excavation Common = Cut + (Topsoil Removal - Topsoil Special 6-inch). Item number 205.0100. Refer to Topsoil Removal Detail.

2) Cut volume includes proposed pavement structure.

3) EBS Excavation to be backfilled with EBS Backfill or as directed by the engineer. EBS Excavation = Topsoil Removal * 20%

4) Roadway Embankment = (Fill + Topsoil Removal Replaced). Refer to Topsoil Removal Detail

5) The Mass Ordinate is calculated by division. A positive quantity indicates an excess of material within the Division and a negative quantity indicates a shortage of material within the Division. Structure Excavation is not included in this calculation.

6) Topsoil Special 6-Inch paid as SY. Volume shown as CY for reference for calculation of Excavation Common.

Mass Ordinate = Cut - Fill. The Mass Ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balanced for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite. All EBS material is assumed to be wasted offsite.

3

SUBSTRUCTURE

ROADWAY	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100* WATER MGAL
STAGE 2									
INTERNATIONAL DRIVE SB	50SDR+62	RT/LT	74SDR+56	RT/LT	--	3,853	7,546	22,054	228
	74SDR+56	RT/LT	75SDR+50	RT/LT	--	488	851	2,729	27
	75SDR+50	RT/LT	85SDR+17	RT/LT	--	1,549	3,147	8,940	94
	91SDR+11	RT/LT	111SDR+76	RT/LT	--	3,092	6,318	17,862	188
INTERNATIONAL DRIVE NB	50NDR+62	RT/LT	74NDR+75	RT/LT	--	3,719	7,355	21,235	221
	75NDR+69	RT/LT	86NDR+21	RT/LT	--	1,630	3,352	9,426	100
	91NDR+15	RT/LT	111NDR+75	RT/LT	--	2,975	6,041	17,161	180
FARMER DRIVEWAY	74SDR+88	LT	75SDR+18	LT	--	86	--	256	2
	75NDR+07	RT	75NDR+37	RT	--	66	--	200	2
LOUIS SORENSON INTERSECTION	85SDR+17	RT/LT	91SDR+11	RT/LT	--	2,550	4,956	14,322	150
LOUIS SORENSON ROAD	25LS+51	RT/LT	27LS+85	RT/LT	30	892	524	2,850	30
	29LS+65	RT/LT	31LS+85	RT/LT	30	825	495	2,617	26
DRIVEWAY	27LS+13	RT/LT	27LS+45	RT/LT	--	24	--	71	1
STAGE 2 SUBTOTAL					60	21,749	40,585	119,723	1,249
UNDISTRIBUTED					3	1,087	2,029	5,986	62
PROJECT 2704-00-75 TOTALS					63	22,837	42,614	125,709	1,311

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

CONCRETE PAVEMENT JOINT LAYOUT

ROADWAY	415.5110.S CONCRETE PAVEMENT JOINT LAYOUT LS
PROJECT 2704-00-75	1
PROJECT 2704-00-75 TOTALS	1

3

CONCRETE PAVEMENT

ROADWAY	STATION			OFFSET	415.0100 CONCRETE PAVEMENT 10-INCH SY	415.4100 CONCRETE PAVEMENT JOINT FILLING SY
STAGE 2						
INTERNATIONAL DRIVE SB	50SDR+70	-	88SDR+07	RT/LT	10,883	10,883
	89SDR+13	-	111SDR+76	RT/LT	6,933	6,933
INTERNATIONAL DRIVE NB	50NDR+70	-	88NDR+12	RT/LT	11,117	11,117
	88NDR+96	-	111NDR+75	RT/LT	6,075	6,075
LOUIS SORENSON INTERSECTION	88SDR+07	-	89SDR+13	RT/LT	1,451	1,451
STAGE 2 SUBTOTAL					36,458	36,458
UNDISTRIBUTED					--	--
PROJECT 2704-00-75 TOTALS					36,458	36,458

FINISHING ROADWAY

ROADWAY	213.0100 FINISHING ROADWAY 2704-00-75 EACH
PROJECT 2704-00-75	1
PROJECT 2704-00-75 TOTAL	1

MOBILIZATION

ROADWAY	619.1000 MOBILIZATION EACH
PROJECT 2704-00-75	1
PROJECT 2704-00-75 TOTAL	1

CONCRETE SURFACE DRAINS

ROADWAY	STATION	OFFSET	416.1010 CONCRETE SURFACE DRAIN SY	606.0200* RIPRAP MEDIUM CY	645.0120* GEOTEXTILE FABRIC TYPE HR SY
STAGE 2					
INTERNATIONAL DRIVE SB	55SDR+49	RT	6	1.5	4
	55SDR+99	RT	6	1.5	5
	59SDR+24	RT	6	0.9	3
	59SDR+74	RT	6	0.9	3
	61SDR+39	RT	6	0.9	3
	61SDR+88	RT	6	0.9	3
	63SDR+48	RT	6	0.9	3
	63SDR+97	RT	6	0.9	3
	65SDR+57	RT	6	0.9	3
	66SDR+06	RT	6	0.9	3
	67SDR+52	RT	6	0.9	3
	68SDR+07	RT	6	0.9	3
	69SDR+70	RT	6	0.9	3
	70SDR+20	RT	6	0.9	3
	71SDR+85	RT	6	0.9	3
	72SDR+35	RT	6	0.9	3
	76SDR+05	RT	6	0.9	3
	76SDR+55	RT	6	0.9	3
	78SDR+19	RT	6	0.9	3
	78SDR+71	RT	6	0.9	3
	80SDR+30	RT	6	0.9	3
	80SDR+82	RT	6	0.9	3
	82SDR+44	RT	6	1.0	3
	82SDR+94	RT	6	1.1	3
	94SDR+64	RT	6	0.9	3
	95SDR+14	RT	6	0.9	3
	96SDR+83	RT	6	0.9	3
	97SDR+33	RT	6	0.9	3
	98SDR+92	RT	6	0.9	3
	99SDR+42	RT	6	0.9	3
	102SDR+80	RT	6	0.9	3
	103SDR+30	RT	6	0.9	3
	107SDR+70	RT	6	0.9	3
	109SDR+34	RT	6	0.9	3

CONCRETE SURFACE DRAINS (CONTINUED)

ROADWAY	STATION	OFFSET	416.1010 CONCRETE SURFACE DRAIN SY	606.0200* RIPRAP MEDIUM CY	645.0120* GEOTEXTILE FABRIC TYPE HR SY
INTERNATIONAL DRIVE NB	55NDR+49	LT	6	1.5	4
	55NDR+99	LT	6	1.5	5
	59NDR+24	LT	6	0.9	3
	59NDR+74	LT	6	0.9	3
	61NDR+39	LT	6	0.9	3
	61NDR+89	LT	6	0.9	3
	63NDR+54	LT	6	0.9	3
	64NDR+04	LT	6	0.9	3
	65NDR+69	LT	6	0.9	3
	66NDR+19	LT	6	0.9	3
	67NDR+79	LT	6	0.9	3
	68NDR+29	LT	6	0.9	3
	69NDR+89	LT	6	0.9	3
	70NDR+39	LT	6	0.9	3
	72NDR+04	LT	6	0.9	3
	72NDR+54	LT	6	0.9	3
	76NDR+24	LT	6	0.9	3
	76NDR+74	LT	6	0.9	3
	78NDR+34	LT	6	0.9	3
	78NDR+84	LT	6	0.9	3
	80NDR+39	LT	6	0.9	3
	80NDR+89	LT	6	0.9	3
	82NDR+49	LT	6	1.0	3
	82NDR+99	LT	6	1.1	3
	94NDR+59	LT	6	0.9	3
	95NDR+09	LT	6	0.9	3
	96NDR+79	LT	6	0.9	3
	97NDR+29	LT	6	0.9	3
	98NDR+89	LT	6	0.9	3
	99NDR+39	LT	6	0.9	3
	102NDR+79	LT	6	0.9	3
	103NDR+29	LT	6	0.9	3
	107NDR+69	LT	6	0.9	3
	109NDR+34	LT	6	0.9	3
STAGE 2 SUBTOTALS			408	64.2	210
PROJECT 2704-00-75 TOTALS			408	64.2	210

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

3

ASPHALT ITEMS

ROADWAY	STATION			OFFSET	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY	495.1000.S COLD PATCH TON
STAGE 2											
INTERNATIONAL DRIVE SB	74SDR+72	-	74SDR+88	LT	--	--	--	--	--	10	--
	75SDR+18	-	75SDR+38	LT	--	--	--	--	--	13	--
INTERNATIONAL DRIVE NB	74NDR+86	-	75NDR+07	RT	--	--	--	--	--	13	--
	75NDR+37	-	75NDR+58	RT	--	--	--	--	--	14	--
LOUIS SORENSON ROAD	25LS+51	-	27LS+85	RT/LT	54	148	--	--	--	--	--
	25LS+52	-	27LS+85	RT/LT	54	--	102	--	--	--	--
	27LS+05	-	27LS+54	RT	--	--	--	2	--	--	--
	27LS+77	-	27LS+85	RT	--	--	--	--	--	11	--
	27LS+77	-	27LS+85	LT	--	--	--	--	--	11	--
	29LS+65	-	29LS+73	RT	--	--	--	--	--	11	--
	29LS+65	-	29LS+73	LT	--	--	--	--	--	12	--
	29LS+65	-	31LS+85	RT/LT	51	139	--	--	--	--	--
	29LS+65	-	31LS+85	RT/LT	51	--	96	--	--	--	--
STAGE 2 SUBTOTAL					210	287	198	2	--	45	--
UNDISTRIBUTED					838	--	1,412	--	148	--	7
PROJECT 2704-00-75 TOTALS					1,048	287	1,610	2	148	45	7

CONCRETE SIDEWALK

ROADWAY	STATION			OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF
STAGE 2							
INTERNATIONAL DRIVE SB	50SDR+62	-	53SDR+70	RT/LT	6,284	--	--
	74SDR+61	-	74SDR+85	LT	209	--	23
	75SDR+21	-	75SDR+45	LT	209	--	23
	86SDR+16	-	88SDR+00	RT	1,334	--	--
	89SDR+08	-	90SDR+63	RT	930	--	--
INTERNATIONAL DRIVE NB	50NDR+62	-	53NDR+18	LT	1,851	--	--
	74NDR+80	-	75NDR+04	RT	209	--	23
	75NDR+40	-	75NDR+64	RT	209	--	23
	86NDR+68	-	88NDR+09	LT	846	--	--
	89NDR+17	-	91NDR+15	LT	1,446	--	--
LOUIS SORENSON ROAD	28LS+01	-	28LS+11	RT	152	20	--
	28LS+01	-	28LS+11	LT	247	--	28
	29LS+39	-	29LS+79	RT	247	--	28
	29LS+39	-	29LS+79	LT	152	20	--
STAGE 2 SUBTOTALS					14,323	40	146
PROJECT 2704-00-75 TOTALS					14,323	40	146

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CURB & GUTTER ITEMS

ROADWAY	STATION	OFFSET	601.0409 CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0555 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
STAGE 2					
INTERNATIONAL DRIVE SB	50SDR+62 - 52SDR+70	RT	--	209	--
	50SDR+62 - 52SDR+70	LT	--	209	--
	50SDR+62 - 74SDR+56	RT	2,204	--	--
	50SDR+62 - 74SDR+86	LT	2,418	--	--
	52SDR+70	RT/LT	--	--	252
	74SDR+56	RT	--	--	168
	75SDR+20 - 88SDR+42	LT	1,380	--	--
	75SDR+50 - 88SDR+00	RT	1,153	--	--
	88SDR+00	RT	--	--	84
	88SDR+76 - 111SDR+76	LT	2,324	--	--
	89SDR+08	RT	--	--	36
	89SDR+08 - 90SDR+63	RT	--	155	--
	89SDR+08 - 90SDR+63	RT	--	155	--
	89SDR+12 - 111SDR+76	RT	2,141	--	--
	90SDR+63	RT	--	--	84
INTERNATIONAL DRIVE NB	50NDR+62 - 75NDR+05	RT	2,477	--	--
	50NDR+62 - 74NDR+75	LT	2,220	--	--
	75NDR+39 - 88NDR+42	RT	1,321	--	--
	75NDR+69	LT	--	--	168
	75NDR+69 - 88NDR+05	LT	1,143	--	--
	86NDR+68	LT	--	--	84
	86NDR+68 - 88NDR+09	LT	--	141	--
	86NDR+68 - 88NDR+09	LT	--	141	--
	88NDR+09	LT	--	--	36
	88NDR+75 - 111NDR+75	RT	2,329	--	--
	89NDR+17	LT	--	--	84
	89NDR+17 - 111NDR+75	LT	2,138	--	--
STAGE 2 SUBTOTALS			23,248	1,009	996
PROJECT 2704-00-75 TOTALS			23,248	1,009	996

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RIPRAP

ROADWAY	STATION	OFFSET	606.0200* RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120* GEOTEXTILE FABRIC TYPE HR SY
STAGE 1					
INTERNATIONAL DRIVE SB	88SDR+16	LT	2.9	--	10
	88SDR+20	RT	2.9	--	10
	88SDR+90	RT	2.9	--	10
	88SDR+90	LT	2.9	--	10
	89SDR+47	LT	--	2.0	7
	89SDR+68	LT	2.9	100.0	177
	91SDR+10	LT	2.9	--	10
	92SDR+57	LT	4.5	--	9
	92SDR+60	LT	4.5	--	9
	94SDR+01	LT	2.8	--	6
	96SDR+06	LT	6.2	--	12
	98SDR+24	LT	1.6	--	3
	99SDR+42 - 101SDR+19	LT	--	386.8	774
STAGE 1 SUBTOTALS			37.0	488.8	1,047
STAGE 2					
INTERNATIONAL DRIVE SB	50SDR+73	LT	1.3	--	3
	51SDR+44	LT	1.3	--	3
INTERNATIONAL DRIVE NB	75NDR+50	RT	1.3	--	3
STAGE 2 SUBTOTALS			3.9	--	9
UNDISTRIBUTED			--	--	--
PROJECT 2704-00-75 TOTALS			40.9	488.8	1,056

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

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RESTORATION ITEMS

ROADWAY	STATION			OFFSET	624.0100* WATER MGAL	627.0200 MULCHING SY	628.6510 SOIL STABILIZER ACRE	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0180.001 TOPSOIL SPECIAL SY
STAGE 1											
INTERNATIONAL DRIVE SB	106SDR+15	-	107SDR+48	LT	31	--	0.3	1.00	25	25	1,365
INTERNATIONAL DRIVE NB	106NDR+23	-	107NDR+42	RT	25	--	0.2	0.75	20	20	1,124
POND H	89SDR+06	-	99SDR+74	LT	305	--	2.8	8.75	244	244	13,574
STAGE 1 SUBTOTAL					361	--	3.3	10.50	289	289	16,063
STAGE 2											
INTERNATIONAL DRIVE SB	50SDR+62	-	88SDR+42	LT	371	--	3.4	10.50	297	297	16,503
	53SDR+18	-	74SDR+56	RT	101	--	0.9	3.00	81	81	4,508
	75SDR+50	-	86SDR+16	RT	48	--	0.4	1.50	38	38	2,133
	88SDR+91	-	111SDR+76	LT	205	--	1.9	6.00	165	165	9,145
	91SDR+12	-	111SDR+76	RT	87	--	0.8	2.50	70	70	3,884
INTERNATIONAL DRIVE NB	50NDR+62	-	88NDR+42	RT	471	--	4.3	13.25	377	377	20,970
	88NDR+76	-	111NDR+75	RT	218	--	2.0	6.25	175	175	9,697
LOUIS SORENSON ROAD	25LS+41	-	27LS+19	RT	9	--	0.1	0.50	8	8	418
	25LS+42	-	28LS+00	LT	5	--	0.1	0.25	4	4	238
	29LS+73	-	31LS+95	RT	9	--	0.1	0.25	7	7	391
	29LS+73	-	31LS+95	LT	9	--	0.1	0.25	7	7	392
STAGE 2 SUBTOTAL					1,534	--	14.1	44.25	1,229	1,229	68,279
UNDISTRIBUTED					95	8,400	1.0	3.00	76	76	4,217
PROJECT 2704-00-75 TOTALS					1,989	8,400	18.4	57.75	1,594	1,594	88,559

FILE NAME: \PW\t1\cds\030201_mq.ppt PLOT DATE : 4/19/2018 2:06:02 AM PLOT BY : HNTB Corp PLOT NAME : 030201_mq8 PLOT SCALE : 1:1

EROSION CONTROL

ROADWAY	STATION	OFFSET	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560 TRACKING PADS EACH
STAGE 1									
INTERNATIONAL DRIVE SB	100SDR+10 - 101SDR+03	LT	25	--	--	--	--	--	--
	106SDR+37	LT	--	--	--	--	8	--	--
	105SDR+98 - 107SDR+69	LT	102	--	--	1,365	--	--	--
INTERNATIONAL DRIVE NB	94NDR+01	RT	--	--	--	--	--	1	--
	94NDR+22	LT	--	--	--	--	--	1	--
	96NDR+25	LT	--	--	--	--	--	1	--
	98NDR+42	LT	--	--	--	--	--	1	--
	103NDR+99	LT	--	--	--	--	--	1	--
	106NDR+16 - 107NDR+65	RT	104	--	--	1,124	--	--	--
	108NDR+30	LT	--	--	--	--	--	1	--
	110NDR+45	LT	--	--	--	--	--	1	--
POND H	89SDR+06 - 99SDR+74	LT	--	--	--	13,574	--	--	--
STAGE 1 SUBTOTAL			231	--	--	16,063	8	7	--
STAGE 2									
INTERNATIONAL DRIVE SB	50SDR+62 - 88SDR+42	LT	--	--	--	16,503	--	--	--
	50SDR+63 - 51SDR+55	LT	48	--	--	--	--	--	--
	53SDR+18 - 74SDR+56	RT	--	--	--	4,508	--	--	--
	55SDR+49	RT	--	--	--	--	8	--	--
	55SDR+99	RT	--	--	--	--	8	--	--
	59SDR+24	RT	--	--	--	--	8	--	--
	59SDR+74	RT	--	--	--	--	8	--	--
	61SDR+39	RT	--	--	--	--	8	--	--
	61SDR+88	RT	--	--	--	--	8	--	--
	63SDR+48	RT	--	--	--	--	8	--	--
	63SDR+97	RT	--	--	--	--	8	--	--
	65SDR+57	RT	--	--	--	--	8	--	--
	66SDR+06	RT	--	--	--	--	8	--	--
	67SDR+52	RT	--	--	--	--	8	--	--
	68SDR+07	RT	--	--	--	--	8	--	--
	69SDR+70	RT	--	--	--	--	8	--	--
	70SDR+20	RT	--	--	--	--	8	--	--
	71SDR+85	RT	--	--	--	--	8	--	--
	72SDR+35	RT	--	--	--	--	8	--	--
	75SDR+50 - 86SDR+16	RT	--	--	--	2,133	--	--	--
	76SDR+05	RT	--	--	--	--	8	--	--
	76SDR+55	RT	--	--	--	--	8	--	--
	78SDR+19	RT	--	--	--	--	8	--	--
	78SDR+71	RT	--	--	--	--	8	--	--
	80SDR+30	RT	--	--	--	--	8	--	--
	80SDR+82	RT	--	--	--	--	8	--	--
	82SDR+44	RT	--	--	--	--	8	--	--
	82SDR+94	RT	--	--	--	--	8	--	--
	87SDR+50	LT	--	--	--	--	8	--	--
	88SDR+17	LT	--	--	--	--	--	1	--
	88SDR+91 - 111SDR+76	LT	--	--	--	9,145	--	--	--
	91SDR+12 - 11SDR+76	RT	--	--	--	3,884	--	--	--

EROSION CONTROL (CONTINUED)

ROADWAY	STATION	OFFSET	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560 TRACKING PADS EACH
	94SDR+64	RT	--	--	--	--	8	--	--
	95SDR+14	RT	--	--	--	--	8	--	--
	96SDR+83	RT	--	--	--	--	8	--	--
	97SDR+33	RT	--	--	--	--	8	--	--
	98SDR+92	RT	--	--	--	--	8	--	--
	99SDR+42	RT	--	--	--	--	8	--	--
	102SDR+25	LT	--	--	--	--	8	--	--
	102SDR+80	RT	--	--	--	--	8	--	--
	103SDR+30	RT	--	--	--	--	8	--	--
	104SDR+29	LT	--	--	--	--	8	--	--
	107SDR+20	RT	--	--	--	--	8	--	--
	107SDR+70	RT	--	--	--	--	8	--	--
	109SDR+34	RT	--	--	--	--	8	--	--
INTERNATIONAL DRIVE NB	50NDR+62 - 88NDR+42	RT	--	--	--	20,970	--	--	--
	51NDR+46 - 51NDR+85	RT	16	--	--	--	--	--	--
	51NDR+79	RT	--	--	--	--	8	--	--
	53NDR+86	RT	--	--	--	--	--	1	--
	54NDR+57	RT	--	--	--	--	8	--	--
	55NDR+49	LT	--	--	--	--	8	--	--
	55NDR+99	LT	--	--	--	--	8	--	--
	56NDR+57	RT	--	--	--	--	8	--	--
	59NDR+24	LT	--	--	--	--	8	--	--
	59NDR+74	LT	--	--	--	--	8	--	--
	60NDR+25	LT	--	--	--	--	--	1	--
	60NDR+56	RT	--	--	--	--	8	--	--
	61NDR+20	RT	--	--	--	--	--	1	--
	61NDR+39	LT	--	--	--	--	8	--	--
	61NDR+89	LT	--	--	--	--	8	--	--
	62NDR+39	LT	--	--	--	--	--	1	--
	62NDR+54	RT	--	--	--	--	8	--	--
	63NDR+54	LT	--	--	--	--	8	--	--
	64NDR+04	LT	--	--	--	--	8	--	--
	64NDR+47	LT	--	--	--	--	--	1	--
	65NDR+69	LT	--	--	--	--	8	--	--
	66NDR+00	RT	--	--	--	--	8	--	--
	66NDR+19	LT	--	--	--	--	8	--	--
	66NDR+62	LT	--	--	--	--	--	1	--
	67NDR+79	LT	--	--	--	--	8	--	--
	67NDR+86	RT	--	--	--	--	8	--	--
	68NDR+29	LT	--	--	--	--	8	--	--
	68NDR+77	LT	--	--	--	--	--	1	--
	69NDR+85	RT	--	--	--	--	8	--	--
	69NDR+89	LT	--	--	--	--	8	--	--
	70NDR+39	LT	--	--	--	--	8	--	--
	70NDR+88	LT	--	--	--	--	--	1	--
	71NDR+92	RT	--	--	--	--	8	--	--
	72NDR+04	LT	--	--	--	--	8	--	--
	72NDR+54	LT	--	--	--	--	8	--	--
	73NDR+04	LT	--	--	--	--	--	1	--

EROSION CONTROL (CONTINUED)

ROADWAY	STATION	OFFSET	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560 TRACKING PADS EACH
	73NDR+95	RT	--	--	--	--	8	--	--
	76NDR+02	RT	--	--	--	--	8	--	--
	76NDR+24	LT	--	--	--	--	8	--	--
	76NDR+74	LT	--	--	--	--	8	--	--
	77NDR+22	LT	--	--	--	--	--	1	--
	78NDR+13	RT	--	--	--	--	8	--	--
	78NDR+34	LT	--	--	--	--	8	--	--
	78NDR+84	LT	--	--	--	--	8	--	--
	79NDR+05	RT	--	--	--	--	--	1	--
	79NDR+34	LT	--	--	--	--	--	1	--
	80NDR+39	RT	--	--	--	--	8	--	--
	80NDR+39	LT	--	--	--	--	8	--	--
	80NDR+89	LT	--	--	--	--	8	--	--
	81NDR+37	LT	--	--	--	--	--	1	--
	82NDR+45	RT	--	--	--	--	--	1	--
	82NDR+49	LT	--	--	--	--	8	--	--
	82NDR+99	LT	--	--	--	--	8	--	--
	83NDR+49	LT	--	--	--	--	--	1	--
	87NDR+24	RT	--	--	--	--	8	--	--
	88NDR+21	RT	--	--	--	--	--	1	--
	88NDR+76 - 111NDR+75	RT	--	--	--	9,697	--	--	--
	89NDR+00	RT	--	--	--	--	8	--	--
	92NDR+75	RT	--	--	--	--	8	--	--
	94NDR+59	LT	--	--	--	--	8	--	--
	94NDR+75	RT	--	--	--	--	8	--	--
	95NDR+09	LT	--	--	--	--	8	--	--
	96NDR+79	LT	--	--	--	--	8	--	--
	97NDR+29	LT	--	--	--	--	8	--	--
	98NDR+89	LT	--	--	--	--	8	--	--
	99NDR+39	LT	--	--	--	--	8	--	--
	102NDR+79	LT	--	--	--	--	8	--	--
	103NDR+29	LT	--	--	--	--	8	--	--
	107NDR+19	LT	--	--	--	--	8	--	--
	107NDR+69	LT	--	--	--	--	8	--	--
	109NDR+34	LT	--	--	--	--	8	--	--
LOUIS SORENSON ROAD	25LS+41 - 27LS+19	RT	--	--	--	418	--	--	--
	25LS+42 - 28LS+00	LT	--	--	--	238	--	--	--
	25LS+51	RT	--	--	--	--	8	--	--
	25LS+53	LT	--	--	--	--	8	--	--
	27LS+53	RT	--	--	--	--	8	--	--
	27LS+54	LT	--	--	--	--	8	--	--
	29LS+73 - 31LS+95	RT	--	--	--	391	--	--	--
	29LS+73 - 31LS+95	LT	--	--	--	392	--	--	--
	31LS+81	RT	--	--	--	--	8	--	--
	31LS+85	LT	--	--	--	--	8	--	--
STAGE 2 SUBTOTAL			64	--	--	68,279	768	17	--
UNDISTRIBUTED			15	2	2	4,217	40	2	6
PROJECT 2704-00-75 TOTALS			310	2	2	88,559	816	26	6

3

SILT FENCE

ROADWAY	STATION			OFFSET	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	SPV.0090.001 HEAVY DUTY SILT FENCE LF
STAGE 1							
INTERNATIONAL DRIVE SB	89SDR+10	-	100SDR+10	LT	1,177	1,177	--
	100SDR+10	-	101SDR+03	LT	--	175	175
	100SDR+11	-	106SDR+06	LT	739	739	--
	106SDR+06	-	107SDR+52	LT	--	256	256
	107SDR+52	-	111SDR+76	LT	430	430	--
INTERNATIONAL DRIVE NB	89NDR+10	-	106NDR+23	RT	1,708	1,708	--
	106NDR+23	-	108NDR+57	RT	--	261	261
	108NDR+57		111NDR+75	RT	423	423	--
LOUIS SORENSON ROAD	25LS+45	-	26LS+82	LT	128	128	--
	29LS+83	-	31LS+96	LT	208	208	--
STAGE 1 SUBTOTAL					4,813	5,505	692
STAGE 2							
INTERNATIONAL DRIVE SB	50SDR+63	-	51SDR+55	LT	--	121	121
	51SDR+55	-	88SDR+06	LT	3,737	3,737	--
INTERNATIONAL DRIVE NB	50NDR+62	-	51NDR+46	RT	106	106	--
	51NDR+46	-	51NDR+85	RT	--	39	39
	51NDR+85	-	88NDR+09	RT	3,755	3,755	--
LOUIS SORENSON ROAD	25LS+41	-	27LS+73	RT	215	215	--
	29LS+91	-	31LS+95	RT	181	181	--
STAGE 2 SUBTOTAL					7,993	8,153	160
PROJECT 2704-00-75 TOTALS					12,806	13,658	852

INLET PROTECTION

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH
STAGE 1				
INTERNATIONAL DRIVE SB	88SDR+25	32.4' LT	1	1
	89SDR+28	10.5' RT	1	1
	89SDR+93	10.5' RT	1	1
	89SDR+94	37.5' LT	1	1
	90SDR+48	11.1' RT	1	1
	90SDR+49	0.00'	1	1
	90SDR+70	34.6' LT	1	1
	91SDR+05	31.1' LT	1	1
	91SDR+26	29.1' LT	1	1
	92SDR+61	11.0' RT	1	1
	92SDR+59	25.8' LT	1	1
	94SDR+04	25.3' LT	1	1
	96SDR+11	25.3' LT	1	1
	98SDR+28	25.3' LT	1	1
	101SDR+99	0.00'	1	1
	102SDR+00	25.3' LT	1	1
	104SDR+17	25.2' LT	1	1
	105SDR+34	1.8' RT	1	1
	105SDR+34	24.4' LT	1	1
	106NDR+40	1.5' RT	1	1
	106SDR+42	25.5' LT	1	1
	108SDR+53	25.4' LT	1	1
	110SDR+68	1.5' RT	1	1
	110SDR+70	25.6' LT	1	1
	110SDR+82	1.5' RT	1	1
	110SDR+83	25.5' LT	1	1
INTERNATIONAL DRIVE NB	89NDR+35	27.2' RT	1	1
	90NDR+84	11.2' LT	1	1
	91NDR+07	25.4' RT	1	1
	91NDR+07	0.00'	1	1
	91NDR+07	12.8' LT	1	1
	91NDR+27	25.6' RT	1	1
	91NDR+27	1.4' LT	1	1
	91NDR+28	14.6' LT	1	1
	91NDR+51	1.5' LT	1	1
	92NDR+59	25.7' RT	1	1
	92NDR+59	0.00'	1	1
	94NDR+00	25.7' RT	1	1
	96NDR+12	25.8' RT	1	1
	98NDR+27	25.7' RT	1	1
	101NDR+96	25.7' RT	1	1

INLET PROTECTION (CONTINUED)

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH
	101NDR+97	0.00'	1	1
	104NDR+15	25.7' RT	1	1
	105NDR+33	25.8' RT	1	1
	105NDR+33	1.2' LT	1	1
	106NDR+39	26.3' RT	1	1
	106NDR+39	1.6' LT	1	1
	108NDR+52	25.5' RT	1	1
	110NDR+51	25.7' RT	1	1
	110NDR+64	25.5' RT	1	1
	110NDR+68	1.5' LT	1	1
	110NDR+81	1.5' LT	1	1
	110NDR+97	25.5' RT	1	1
LOUIS SORENSON ROAD	24LS+56	20.7' LT	1	--
	25LS+45	17.8' LT	1	--
STAGE 1 SUBTOTALS			55	53
STAGE 2				
INTERNATIONAL ROAD SB	51SDR+86	11.6' RT	1	1
	51SDR+86	22.4' LT	1	1
	51SDR+86	38.3' LT	1	1
	52SDR+68	37.6' LT	1	1
	54SDR+00	16.5' RT	1	1
	54SDR+00	27.7' LT	1	1
	55SDR+05	7.8' RT	1	1
	55SDR+05	25.2' LT	1	1
	57SDR+66	25.9'	1	1
	60SDR+37	25.6' LT	1	1
	61SDR+20	25.8' LT	1	1
	62SDR+52	25.3' LT	1	1
	64SDR+52	24.8' LT	1	1
	66SDR+62	25.3' LT	1	1
	68SDR+77	25.8' LT	1	1
	70SDR+75	24.5' LT	1	1
	73SDR+03	24.7' LT	1	1
	74SDR+49	1.5' RT	1	1
	74SDR+51	25.7' LT	1	1
	77SDR+24	25.5' LT	1	1
	79SDR+30	25.5' LT	1	1
	81SDR+48	25.4' LT	1	1
	82SDR+31	25.5' LT	1	1
	83SDR+59	26.8' LT	1	1
	85SDR+50	1.0' RT	1	1
	85SDR+50	25.0' LT	1	1

INLET PROTECTION (CONTINUED)

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH
	86SDR+68	10.6' RT	1	1
	86SDR+68	1.6' RT	1	1
	86SDR+68	25.4' LT	1	1
	87SDR+89	10.3' RT	1	1
	87SDR+89	1.5' RT	1	1
	87SDR+89	28.7' LT	1	1
INTERNATIONAL ROAD NB	51NDR+85	27.2' RT	1	1
	51NDR+85	1.0' LT	1	1
	51NDR+85	9.6' LT	1	1
	52NDR+68	25.5' RT	1	1
	52NDR+68	1.5' LT	1	1
	52NDR+68	10.9' LT	1	1
	54NDR+00	1.75' LT	1	1
	54NDR+06	24.8' RT	1	1
	55NDR+05	25.0' RT	1	1
	55NDR+05	1.0' LT	1	1
	55NDR+05	11.2' LT	1	1
	57NDR+65	25.5' RT	1	1
	60NDR+37	25.5' RT	1	1
	61NDR+20	25.7' RT	1	1
	62NDR+55	24.8' RT	1	1
	64NDR+60	24.0' RT	1	1
	66NDR+74	25.5' RT	1	1
	68NDR+95	25.2' RT	1	1
	70NDR+94	25.5' RT	1	1
	73NDR+21	26.0' RT	1	1
	74NDR+67	25.5' RT	1	1
	74NDR+67	1.5' LT	1	1
	77NDR+41	25.9' RT	1	1
	79NDR+39	25.5' RT	1	1
	81NDR+54	25.6' RT	1	1
	82NDR+38	25.0' RT	1	1
	83NDR+54	25.5' RT	1	1
	83NDR+64	2.7' RT	1	1
	85NDR+55	28.5' RT	1	1
	85NDR+55	17.5' LT	1	1
	86NDR+73	37.5' RT	1	1
	87NDR+94	37.5' RT	1	1
	87NDR+94	1.5' LT	1	1
	87NDR+94	10.5' LT	1	1
STAGE 2 SUBTOTALS			66	66
PROJECT 2704-00-75 TOTALS			121	119

3

PERMANENT SIGNING

SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
STAGE 2										
INTERNATIONAL DRIVE										
P100	R6-2R	ONE WAY	24 X 30	--	5.00	--	50NDR+69	LT	1	
P101	R3-7R	RIGHT LANE MUST TURN RIGHT	30 X 30	--	6.25	--	52SDR+11	LT	1	
P102	R3-7L	LEFT LANE MUST TURN LEFT	30 X 30	--	6.25	--	52SDR+09	RT	1	
P103	W12-1D	DIVERGE	24 X 24	--	--	4.00	52SDR+61	LT	1	2' MOUNTING HEIGHT
P104	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	54SDR+02	RT	1	
P105	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	54SDR+02	RT	1	
P106	R3-20L	BEGIN LEFT TURN LANE	24 X 36	--	6.00	--	55SDR+82	RT	1	
P107	R3-7R	RIGHT LANE MUST TURN RIGHT	30 X 30	--	6.25	--	61SDR+03	LT	1	
P108	R3-7L	LEFT LANE MUST TURN LEFT	30 X 30	--	6.25	--	61SDR+03	RT	1	
P109	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	68SDR+03	LT	1	
P110	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	68SDR+03	RT	1	
P111	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	68SDR+82	RT	1	
P112	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	68SDR+82	RT	1	
P113	W11-5	TRACTOR CROSSING	36 X 36	--	--	9.00	72SDR+13	RT	1	
P114	R4-7	KEEP RIGHT	24 X 30	--	5.00	--	74SDR+49	RT	1	
P115	R4-7	KEEP RIGHT	24 X 30	--	5.00	--	75SDR+57	RT	1	
P116	W11-5	TRACTOR CROSSING	36 X 36	--	9.00	--	77SDR+95	RT	1	
P117	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	83SDR+20	LT	1	
P118	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	83SDR+20	RT	1	
P119	R3-20L	BEGIN LEFT TURN LANE	24 X 36	--	6.00	--	85SDR+53	RT	1	
P120	R3-20L	BEGIN LEFT TURN LANE	24 X 36	--	6.00	--	86SDR+71	RT	1	
P121	R5-1	DO NOT ENTER	30 X 30	--	6.25	--	87SDR+94	RT	1	
P122	R4-7	KEEP LEFT	24 X 30	--	5.00	--	87SDR+95	RT	1	
P123	R6-2L	ONE WAY	24 X 30	--	5.00	--	88SDR+00	LT	1	
P130	R6-2L	ONE WAY	24 X 30	--	5.00	--	89SDR+22	RT	1	
P131	R4-7	KEEP LEFT	24 X 30	--	5.00	--	89SDR+20	RT	1	
P132	R5-1	DO NOT ENTER	30 X 30	--	6.25	--	89SDR+21	RT	1	
P133	R3-20LL	BEGIN LEFT TURN LANE	24 X 36	--	6.00	--	90SDR+56	RT	1	
P134	R3-20L	BEGIN LEFT TURN LANE	24 X 36	--	6.00	--	93SDR+75	RT	1	
P135	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	94SDR+02	RT	1	
P136	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	94SDR+02	RT	1	
P137	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	108SDR+97	RT	1	
P138	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	108SDR+97	RT	1	
P139	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	109SDR+03	LT	1	
P140	R2-1	SPEED LIMIT 35	24 X 30	--	5.00	--	109SDR+03	RT	1	
P141	R4-7	KEEP LEFT	24 X 30	--	5.00	--	111SDR+75	RT	1	
LOUIS SORENSON ROAD										
P124	R2-1	SPEED LIMIT 45	24 X 30	--	5.00	--	31LS+38	RT	1	
P125	R1-1	STOP	36 X 36	--	9.00	--	27LS+95	RT	1	
P126	W3-1	STOP AHEAD	18 X 18	2	--	2.25	23LS+95	RT	1	
P127	W3-1	STOP AHEAD	18 X 18	2	--	2.25	33LS+54	LT	1	
P128	R1-1	STOP	36 X 36	--	9.00	--	29LS+54	LT	1	
P129	R2-1	SPEED LIMIT 45	24 X 30	--	5.00	--	26LS+00	LT	1	
STAGE 2 SUBTOTALS				4	214.50	17.50			42	
PROJECT 2704-00-75 TOTALS				4	214.50	17.50			42	

SIGN REMOVAL

SIGN NUMBER	STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORT EACH	REMARKS
STAGE 1					
INTERNATIONAL DRIVE					
R201	111SDR+77	LT	1	1	END OF ROAD WARNING
R202	111SDR+77	LT	1	1	END OF ROAD WARNING
R203	111SDR+77	LT	1	1	END OF ROAD WARNING
R204	111SDR+77	RT	1	1	END OF ROAD WARNING
R205	111SDR+77	RT	1	1	END OF ROAD WARNING
R206	111SDR+77	RT	1	1	END OF ROAD WARNING
R207	111SDR+77	RT	1	1	END OF ROAD WARNING
R208	111SDR+77	RT	1	1	END OF ROAD WARNING
R209	111SDR+77	RT	1	1	END OF ROAD WARNING
R210	111SDR+77	RT	1	1	END OF ROAD WARNING
STAGE 1 SUBTOTAL			10	10	
STAGE 2					
INTERNATIONAL DRIVE					
R211	---	LT	1	1	DEAD END
LOUIS SORENSON ROAD					
R200	29LS+21	LT	1	1	SPEED LIMIT 45
STAGE 2 SUBTOTAL			2	2	
PROJECT 2704-00-75 TOTALS			12	12	

TRAFFIC CONTROL ITEMS

ROADWAY	DURATION DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.5000 TRAFFIC CONTROL EACH
STAGE 1								
INTERNATIONAL DRIVE SB	153	3	459	6	918	1	153	--
INTERNATIONAL DRIVE NB		3	459	6	918	1	153	--
STAGE 1 SUBTOTALS			918		1,836		306	--
STAGE 2								
INTERNATIONAL DRIVE SB	275	3	825	6	1,650	1	275	--
INTERNATIONAL DRIVE NB		3	825	6	1,650	1	275	--
LOUIS SORENSON ROAD		10	2,750	20	5,500	1	275	--
STAGE 2 SUBTOTAL			4,400		8,800		825	--
UNDISTRIBUTED			--		--		--	1
PROJECT 2704-00-75 TOTAL			5,318		10,636		1,131	1

PAVEMENT MARKINGS

ROADWAY	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH YELLOW LF	646.5020 MARKING ARROW EPOXY WHITE EACH	646.5120 MARKING WORD EPOXY WHITE EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.7220 MARKING CHEVRON EPOXY 24-INCH WHITE LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE LF	646.8120 MARKING CURB EPOXY YELLOW LF	646.8220 MARKING ISLAND NOSE EPOXY YELLOW EACH	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH LF
STAGE 2												
INTERNATIONAL DRIVE SB	1,337	--	1,145	--	10	7	48	264	--	10	1	--
INTERNATIONAL DRIVE NB	1,527	--	484	--	4	3	48	--	--	30	3	--
LOUIS SORENSON ROAD	931	953	--	--	--	--	24	--	157	--	--	--
STAGE 2 SUBTOTAL	4,747		1,629		14	10	120	264	157	40	4	--
UNDISTRIBUTED	10,000		--		--	--	--	--	--	--	--	1,500
PROJECT 2704-00-75 TOTALS	14,747		1,629		14	10	120	264	157	40	4	1,500

SAWING PAVEMENT

ROADWAY	STATION			OFFSET	690.0150 SAWING ASPHALT LF
STAGE 1					
INTERNATIONAL ROAD SB	111SDR+76	-	11SDR+76	LT	24
INTERNATIONAL ROAD NB	111NDR+75	-	111NDR+75	RT	24
STAGE 1 SUBTOTAL					48
STAGE 2					
LOUIS SORENSON DRIVE	25LS+51	-	25LS+51	RT/LT	22
	31LS+85	-	31LS+85	RT/LT	22
STAGE 2 SUBTOTAL					44
PROJECT 2704-00-75 TOTAL					92

3

ITS ITEMS

ROADWAY	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF
PROJECT 2704-00-75	1
PROJECT 2704-00-75 TOTAL:	1

EXCAVATION BELOW SUBGRADE

ROADWAY	645.022 GEOGRID TYPE SR SY	SPV.0035.003 EBS BACKFILL CY
PROJECT 2704-00-75	26,184	8,728
PROJECT 2704-00-75 TOTALS	26,184	8,728

SECTION CORNER MONUMENTS

	SPV.0060.009 SECTION CORNER MONUMENTS
PROJECT 2704-00-75	EACH
UNDISTRIBUTED	2
PROJECT 2704-00-75	2

PAVEMENT CLEANUP (PROJECT 2704-00-75)

ROADWAY	SPV.0075.001 PAVEMENT CLEANUP PROJECT 2704-00-75 HOURS
PROJECT 2704-09-70	20
PROJECT 2704-00-75 TOTAL	20

3

SURVEY PROJECT

ROADWAY	SPV.0105.002 SURVEY PROJECT (2704-00-75) LS
PROJECT 2704-00-75	1
PROJECT 2704-00-75 TOTAL	1

EXCAVATION, HAULING, AND DISPOSAL OF CONTAMINATED SOIL

ROADWAY	SPV.0195.009 EXCAVATION, HAULDING, AND DISPOSAL OF CONTAMINATED SOIL TON
PROJECT 2704-00-75	10
PROJECT 2704-00-75 TOTAL	10

REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES

ROADWAY	SPV.0170.001 REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES STA
PROJECT 2704-00-75	4
PROJECT 2704-00-75 TOTAL	4

IRRIGATION

ROADWAY	SPV.0075.730 WATER TAP SERVICE AND IRRIGATION SYSTEM LS
PROJECT 2704-09-70	1
PROJECT 2704-00-75 TOTAL	1

DRAIN TILE

	612.0700 DRAIN TILE EXPLORATION	SPV.0060.012 CONNECT DRAIN TILE
PROJECT 2704-00-75	LF	EACH
UNDISTRIBUTED	4000	15
PROJECT 2704-00-75 TOTAL	4000	15

EROSION CONTROL SPECIAL

	SPV.0060.001 TEMPORARY STONE DITCH CHECKS	SPV.0060.002 SAND BAGS	SPV.0060.003 TEMPORARY SEDIMENT TRAPS
PROJECT 2704-00-75	EACH	EACH	EACH
UNDISTRIBUTED	10	30	3
PROJECT 2704-00-75 TOTAL	10	30	3

LOCAL NON-PARTICIPATING ITEMS

ROADWAY	DURATION DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	DAY
PROJECT 2704-00-75	1	1	1
PROJECT 2704-00-75 TOTAL			1

3

GENERAL NOTES

1) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS UNLESS OTHERWISE NOTED.
2) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES UNLESS OTHERWISE NOTED.
3) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING - 0.5 FT(RINGS AND MORTER) , EXCEPT MEDIAN INLETS.
4) FLAT TOP SLAB REQUIRED ON ALL MANHOLES WITH INLET COVERS.
5) SEE SPECIAL PROVISIONS FOR ADJUSTMENT RING REQUIREMENTS.

					STORM SEWER PIPES										
					520.8000	608.0312	608.0315	608.0318	608.0324	608.0330	608.0342	608.0348	608.0354	608.0360	608.0415
					CONCRETE COLLARS	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV
FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	FOR PIPE EACH	12-INCH LF	15-INCH LF	18-INCH LF	24-INCH LF	30-INCH LF	42-INCH LF	48-INCH LF	54-INCH LF	60-INCH LF	15-INCH LF
STAGE 1															
INTERNATIONAL DRIVE															
88J	88I	737.73	737.59	0.32%	--	--	--	--	--	--	--	--	--	--	--
88I	88H	737.59	737.44	0.33%	--	--	--	--	--	--	--	--	--	--	--
88H	EW8	737.44	737.36	1.14%	--	--	--	--	--	--	--	--	--	--	--
89A	89B	737.07	736.85	0.41%	--	--	54	--	--	--	--	--	--	--	--
89B	89C	736.85	736.57	0.42%	--	--	66	--	--	--	--	--	--	--	--
89C	90B	736.57	736.34	0.43%	--	--	54	--	--	--	--	--	--	--	--
90B	90C	736.34	736.32	0.22%	--	--	9	--	--	--	--	--	--	--	--
90C	91M	736.32	736.14	0.42%	--	--	43	--	--	--	--	--	--	--	--
91M	93D	736.14	736.00	0.39%	--	--	36	--	--	--	--	--	--	--	--
89D	89C	736.77	736.57	0.42%	--	--	48	--	--	--	--	--	--	--	--
93E	91A	736.56	736.48	0.42%	--	--	19	--	--	--	--	--	--	--	--
91A	91B	736.48	736.39	0.33%	--	--	27	--	--	--	--	--	--	--	--
91B	92C	736.39	736.36	0.27%	--	--	11	--	--	--	--	--	--	--	--
92C	93D	735.50	735.31	0.35%	--	--	--	54	--	--	--	--	--	--	--
93D	EW9	735.31	735.00	0.69%	--	--	--	45	--	--	--	--	--	--	--
91S	93F	736.56	736.47	0.37%	--	--	24	--	--	--	--	--	--	--	--
93F	91B	736.47	736.39	0.42%	--	--	19	--	--	--	--	--	--	--	--
93G	92C	736.00	735.75	1.32%	--	--	19	--	--	--	--	--	--	--	--
91Q	92C	736.00	735.75	1.09%	--	--	23	--	--	--	--	--	--	--	--
93H	93D	736.25	736.17	0.36%	--	--	22	--	--	--	--	--	--	--	--
93A	93B	736.52	736.43	0.33%	--	--	27	--	--	--	--	--	--	--	--
93B	93C	736.43	736.37	0.32%	--	--	19	--	--	--	--	--	--	--	--
93C	93P	736.37	736.24	0.36%	--	--	36	--	--	--	--	--	--	--	--
93P	EW10	736.24	736.11	0.38%	--	--	34	--	--	--	--	--	--	--	--
EW12	94A	735.94	735.72	0.48%	--	--	--	--	46	--	--	--	--	--	--
94A	94B	735.72	735.56	0.44%	--	--	--	--	36	--	--	--	--	--	--
94B	94D	735.56	735.39	0.45%	--	--	--	--	38	--	--	--	--	--	--
EW94	94B	741.47	739.54	13.79%	--	--	--	--	--	--	--	--	--	--	--
94D	EW11	735.39	735.17	0.49%	--	--	--	--	45	--	--	--	--	--	--
96A	96B	739.00	738.83	0.45%	--	--	38	--	--	--	--	--	--	--	--
96B	96D	738.83	738.67	0.43%	--	--	37	--	--	--	--	--	--	--	--
96D	EW13	738.67	738.47	0.47%	--	--	43	--	--	--	--	--	--	--	--
EW96	96B	742.51	740.62	21.00%	--	--	--	--	--	--	--	--	--	--	--
98A	98B	739.72	739.55	0.45%	--	--	38	--	--	--	--	--	--	--	--
98B	98D	739.55	739.38	0.45%	--	--	38	--	--	--	--	--	--	--	--

3

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0484 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 84-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	612.0204 PIPE UNDERDRAIN UNPERFORATED 4-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 PIPE UNDERDRAIN UNPERFORATED 8-INCH LF
STAGE 1										
INTERNATIONAL DRIVE										
88J	88I	737.73	737.59	0.32%	--	--	--	--	44	--
88I	88H	737.59	737.44	0.33%	--	--	--	--	46	--
88H	EW8	737.44	737.36	1.14%	--	--	--	--	7	--
89A	89B	737.07	736.85	0.41%	--	--	--	--	--	--
89B	89C	736.85	736.57	0.42%	--	--	--	--	--	--
89C	90B	736.57	736.34	0.43%	--	--	--	--	--	--
90B	90C	736.34	736.32	0.22%	--	--	--	--	--	--
90C	91M	736.32	736.14	0.42%	--	--	--	--	--	--
91M	93D	736.14	736.00	0.39%	--	--	--	--	--	--
89D	89C	736.77	736.57	0.42%	--	--	--	--	--	--
93E	91A	736.56	736.48	0.42%	--	--	--	--	--	--
91A	91B	736.48	736.39	0.33%	--	--	--	--	--	--
91B	92C	736.39	736.36	0.27%	--	--	--	--	--	--
92C	93D	735.50	735.31	0.35%	--	--	--	--	--	--
93D	EW9	735.31	735.00	0.69%	--	--	--	--	--	--
91S	93F	736.56	736.47	0.37%	--	--	--	--	--	--
93F	91B	736.47	736.39	0.42%	--	--	--	--	--	--
93G	92C	736.00	735.75	1.32%	--	--	--	--	--	--
91Q	92C	736.00	735.75	1.09%	--	--	--	--	--	--
93H	93D	736.25	736.17	0.36%	--	--	--	--	--	--
93A	93B	736.52	736.43	0.33%	--	--	--	--	--	--
93B	93C	736.43	736.37	0.32%	--	--	--	--	--	--
93C	93P	736.37	736.24	0.36%	--	--	--	--	--	--
93P	EW10	736.24	736.11	0.38%	--	--	--	--	--	--
EW12	94A	735.94	735.72	0.48%	--	--	--	--	--	--
94A	94B	735.72	735.56	0.44%	--	--	--	--	--	--
94B	94D	735.56	735.39	0.45%	--	--	--	--	--	--
EW94	94B	741.47	739.54	13.79%	--	--	14	--	--	--
94D	EW11	735.39	735.17	0.49%	--	--	--	--	--	--
96A	96B	739.00	738.83	0.45%	--	--	--	--	--	--
96B	96D	738.83	738.67	0.43%	--	--	--	--	--	--
96D	EW13	738.67	738.47	0.47%	--	--	--	--	--	--
EW96	96B	742.51	740.62	21.00%	--	--	9	--	--	--
98A	98B	739.72	739.55	0.45%	--	--	--	--	--	--
98B	98D	739.55	739.38	0.45%	--	--	--	--	--	--

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0354 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 54-INCH LF	608.0360 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 60-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
EW98	98B	743.59	741.71	20.89%	--	--	--	--	--	--	--	--	--	--	--
98D	EW14	734.00	733.73	0.44%	--	--	--	--	62	--	--	--	--	--	--
102A	102B	740.50	740.41	0.33%	--	--	27	--	--	--	--	--	--	--	--
102B	102C	740.41	740.34	0.33%	--	--	21	--	--	--	--	--	--	--	--
102C	102D	740.34	740.25	0.33%	--	--	27	--	--	--	--	--	--	--	--
102D	98D	736.15	734.50	0.45%	--	--	--	370	--	--	--	--	--	--	--
104D	102D	737.10	736.15	0.44%	--	--	--	215	--	--	--	--	--	--	--
104A	104B	739.08	738.92	0.43%	--	--	37	--	--	--	--	--	--	--	--
104B	104D	738.92	738.75	0.45%	--	--	38	--	--	--	--	--	--	--	--
EW104	104B	741.83	739.92	19.10%	--	--	10	--	--	--	--	--	--	--	--
106D	104D	737.61	737.10	0.43%	--	--	--	118	--	--	--	--	--	--	--
106A	106B	738.40	738.30	0.37%	--	--	27	--	--	--	--	--	--	--	--
106B	106C	738.30	738.22	0.38%	--	--	21	--	--	--	--	--	--	--	--
106C	106D	738.22	738.12	0.37%	--	--	27	--	--	--	--	--	--	--	--
106F	106D	738.38	737.86	0.48%	--	--	--	--	--	--	--	--	--	--	108
106H	106G	738.66	738.56	0.37%	--	--	--	--	--	--	--	--	--	--	27
106G	106E	738.56	738.48	0.38%	--	--	--	--	--	--	--	--	--	--	21
106E	106F	738.48	738.38	0.37%	--	--	--	--	--	--	--	--	--	--	27
PIPE CONNECT	107	731.28	730.99	0.29%	1	--	--	--	--	--	--	--	--	--	--
107	EW15	730.99	730.84	0.30%	--	--	--	--	--	--	--	--	--	--	--
108D	108B	735.20	735.05	0.41%	--	--	37	--	--	--	--	--	--	--	--
108B	108A	735.05	734.90	0.39%	--	--	38	--	--	--	--	--	--	--	--
EW108	108B	737.95	735.05	18.13%	--	--	16	--	--	--	--	--	--	--	--
108A	110E	734.90	734.03	0.44%	--	--	--	--	--	--	--	--	--	--	198
110E	110K	734.03	733.99	0.31%	--	--	--	--	--	--	--	--	--	--	13
110K	110J	733.99	733.86	0.41%	--	--	--	--	--	--	--	--	--	--	32
110C	110D	734.22	734.18	0.29%	--	--	--	--	--	--	--	--	--	--	14
110D	110G	734.18	734.08	0.37%	--	--	--	--	--	--	--	--	--	--	27
110G	110H	734.08	733.99	0.36%	--	--	--	--	--	--	--	--	--	--	25
110H	110J	733.74	733.61	0.41%	--	--	--	--	--	--	--	--	--	--	--
110L	110G	734.12	734.08	0.31%	--	--	--	--	--	--	--	--	--	--	13
EW110	110M	734.61	734.02	2.95%	--	--	20	--	--	--	--	--	--	--	--
110M	110H	734.02	733.99	0.25%	--	--	--	--	--	--	--	--	--	--	12
110J	112	733.61	733.34	0.42%	--	--	--	--	--	--	--	--	--	--	--
STAGE 1 SUBTOTALS					1	--	1,130	802	227	--	--	--	--	--	517

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0484 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 84-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	612.0204 PIPE UNDERDRAIN UNPERFORATED 4-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 PIPE UNDERDRAIN UNPERFORATED 8-INCH LF
EW98	98B	743.59	741.71	20.89%	--	--	9	--	--	--
98D	EW14	734.00	733.73	0.44%	--	--	--	--	--	--
102A	102B	740.50	740.41	0.33%	--	--	--	--	--	--
102B	102C	740.41	740.34	0.33%	--	--	--	--	--	--
102C	102D	740.34	740.25	0.33%	--	--	--	--	--	--
102D	98D	736.15	734.50	0.45%	--	--	--	--	--	--
104D	102D	737.10	736.15	0.44%	--	--	--	--	--	--
104A	104B	739.08	738.92	0.43%	--	--	--	--	--	--
104B	104D	738.92	738.75	0.45%	--	--	--	--	--	--
EW104	104B	741.83	739.92	19.10%	--	--	--	--	--	--
106D	104D	737.61	737.10	0.43%	--	--	--	--	--	--
106A	106B	738.40	738.30	0.37%	--	--	--	--	--	--
106B	106C	738.30	738.22	0.38%	--	--	--	--	--	--
106C	106D	738.22	738.12	0.37%	--	--	--	--	--	--
106F	106D	738.38	737.86	0.48%	--	--	--	--	--	--
106H	106G	738.66	738.56	0.37%	--	--	--	--	--	--
106G	106E	738.56	738.48	0.38%	--	--	--	--	--	--
106E	106F	738.48	738.38	0.37%	--	--	--	--	--	--
PIPE CONNECT	107	731.28	730.99	0.29%	--	99	--	--	--	--
107	EW15	730.99	730.84	0.30%	--	50	--	--	--	--
108D	108B	735.20	735.05	0.41%	--	--	--	--	--	--
108B	108A	735.05	734.90	0.39%	--	--	--	--	--	--
EW108	108B	737.95	735.05	18.13%	--	--	--	--	--	--
108A	110E	734.90	734.03	0.44%	--	--	--	--	--	--
110E	110K	734.03	733.99	0.31%	--	--	--	--	--	--
110K	110J	733.99	733.86	0.41%	--	--	--	--	--	--
110C	110D	734.22	734.18	0.29%	--	--	--	--	--	--
110D	110G	734.18	734.08	0.37%	--	--	--	--	--	--
110G	110H	734.08	733.99	0.36%	--	--	--	--	--	--
110H	110J	733.74	733.61	0.41%	32	--	--	--	--	--
110L	110G	734.12	734.08	0.31%	--	--	--	--	--	--
EW110	110M	734.61	734.02	2.95%	--	--	--	--	--	--
110M	110H	734.02	733.99	0.25%	--	--	--	--	--	--
110J	112	733.61	733.34	0.42%	64	--	--	--	--	--
STAGE 1 SUBTOTALS					96	149	32	--	97	--

					STORM SEWER PIPES										
					520.8000	608.0312	608.0315	608.0318	608.0324	608.0330	608.0342	608.0348	608.0354	608.0360	608.0415
					CONCRETE COLLARS	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS III	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV
FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	FOR PIPE EACH	12-INCH LF	15-INCH LF	18-INCH LF	24-INCH LF	30-INCH LF	42-INCH LF	48-INCH LF	54-INCH LF	60-INCH LF	15-INCH LF
STAGE 2															
INTERNATIONAL DRIVE															
52E	52D	754.97	754.92	0.31%	--	--	16	--	--	--	--	--	--	--	--
52D	52C	754.92	754.79	0.41%	--	--	32	--	--	--	--	--	--	--	--
52C	52B	754.79	754.74	0.31%	--	--	16	--	--	--	--	--	--	--	--
52B	52A	754.74	754.72	0.22%	--	--	9	--	--	--	--	--	--	--	--
52A	52	754.72	754.60	0.41%	--	--	29	--	--	--	--	--	--	--	--
52	53	754.60	754.25	0.42%	--	--	83	--	--	--	--	--	--	--	--
53C	53B	755.85	755.56	0.46%	--	--	63	--	--	--	--	--	--	--	--
53B	53A	755.56	755.53	0.33%	--	--	9	--	--	--	--	--	--	--	--
53A	53	755.53	755.35	0.67%	--	--	27	--	--	--	--	--	--	--	--
53E	53	755.25	755.10	0.29%	--	--	--	--	--	--	--	--	--	--	--
53D	53	755.27	755.10	0.40%	--	--	--	--	--	--	--	--	--	--	--
53	54	754.25	753.65	0.43%	--	--	--	138	--	--	--	--	--	--	--
54M	54B	756.59	756.41	0.41%	--	--	44	--	--	--	--	--	--	--	--
54B	54A	756.41	756.35	0.33%	--	--	18	--	--	--	--	--	--	--	--
54A	54	756.35	756.25	0.37%	--	--	27	--	--	--	--	--	--	--	--
54I	54H	757.06	756.47	0.66%	--	--	--	--	--	--	--	--	--	--	--
54H	54G	756.47	756.24	0.29%	--	--	--	--	--	--	--	--	--	--	--
54G	54F	755.67	755.46	0.30%	--	--	--	--	--	--	--	--	--	--	--
54F	54E	755.46	755.23	0.29%	--	--	--	--	--	--	--	--	--	--	--
54E	54D	755.23	754.80	0.55%	--	--	--	--	--	--	--	--	--	--	--
54D	54C	754.80	753.75	1.21%	--	--	--	--	--	--	--	--	--	--	--
54C	54	753.75	753.65	0.26%	--	39	--	--	--	--	--	--	--	--	--
EW1	54	756.00	755.00	2.33%	--	--	--	--	43	--	--	--	--	--	--
54	55	753.15	752.65	0.47%	--	--	--	--	107	--	--	--	--	--	--
55B	55A	757.00	756.85	0.43%	--	--	35	--	--	--	--	--	--	--	--
55A	55	756.85	756.79	0.50%	--	--	12	--	--	--	--	--	--	--	--
55D	55C	757.44	757.29	0.58%	--	--	26	--	--	--	--	--	--	--	--
55C	55	757.29	757.10	1.36%	--	--	14	--	--	--	--	--	--	--	--
55	58	752.65	751.37	0.49%	--	--	--	--	260	--	--	--	--	--	--
58A	58	758.50	758.29	0.46%	--	--	46	--	--	--	--	--	--	--	--
58B	58	758.43	758.29	0.44%	--	--	32	--	--	--	--	--	--	--	--
58	60	751.37	749.94	0.53%	--	--	--	--	272	--	--	--	--	--	--
60A	60	758.00	757.82	0.41%	--	--	44	--	--	--	--	--	--	--	--
60B	60	757.94	757.82	0.39%	--	--	31	--	--	--	--	--	--	--	--
EW60	60	761.83	759.65	24.22%	--	--	9	--	--	--	--	--	--	--	--
60	61	749.94	749.44	0.57%	--	--	--	--	87	--	--	--	--	--	--
61A	61	757.94	757.75	0.43%	--	--	44	--	--	--	--	--	--	--	--
EW2	61B	756.00	753.50	5.81%	--	--	--	--	--	43	--	--	--	--	--
61B	61	753.50	753.25	0.78%	--	--	--	--	--	32	--	--	--	--	--
61C	61B	754.40	754.00	0.80%	--	--	--	--	--	--	--	--	--	--	--

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0484 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 84-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	612.0204 PIPE UNDERDRAIN UNPERFORATED 4-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 PIPE UNDERDRAIN UNPERFORATED 8-INCH LF
STAGE 2										
INTERNATIONAL DRIVE										
52E	52D	754.97	754.92	0.31%	--	--	--	--	--	--
52D	52C	754.92	754.79	0.41%	--	--	--	--	--	--
52C	52B	754.79	754.74	0.31%	--	--	--	--	--	--
52B	52A	754.74	754.72	0.22%	--	--	--	--	--	--
52A	52	754.72	754.60	0.41%	--	--	--	--	--	--
52	53	754.60	754.25	0.42%	--	--	--	--	--	--
53C	53B	755.85	755.56	0.46%	--	--	--	--	--	--
53B	53A	755.56	755.53	0.33%	--	--	--	--	--	--
53A	53	755.53	755.35	0.67%	--	--	--	--	--	--
53E	53	755.25	755.10	0.29%	--	--	--	--	51	--
53D	53	755.27	755.10	0.40%	--	--	--	42	--	--
53	54	754.25	753.65	0.43%	--	--	--	--	--	--
54M	54B	756.59	756.41	0.41%	--	--	--	--	--	--
54B	54A	756.41	756.35	0.33%	--	--	--	--	--	--
54A	54	756.35	756.25	0.37%	--	--	--	--	--	--
54I	54H	757.06	756.47	0.66%	--	--	--	--	89	--
54H	54G	756.47	756.24	0.29%	--	--	--	--	78	--
54G	54F	755.67	755.46	0.30%	--	--	--	--	71	--
54F	54E	755.46	755.23	0.29%	--	--	--	--	80	--
54E	54D	755.23	754.80	0.55%	--	--	--	--	78	--
54D	54C	754.80	753.75	1.21%	--	--	--	--	87	--
54C	54	753.75	753.65	0.26%	--	--	--	--	--	--
EW1	54	756.00	755.00	2.33%	--	--	--	--	--	--
54	55	753.15	752.65	0.47%	--	--	--	--	--	--
55B	55A	757.00	756.85	0.43%	--	--	--	--	--	--
55A	55	756.85	756.79	0.50%	--	--	--	--	--	--
55D	55C	757.44	757.29	0.58%	--	--	--	--	--	--
55C	55	757.29	757.10	1.36%	--	--	--	--	--	--
55	58	752.65	751.37	0.49%	--	--	--	--	--	--
58A	58	758.50	758.29	0.46%	--	--	--	--	--	--
58B	58	758.43	758.29	0.44%	--	--	--	--	--	--
58	60	751.37	749.94	0.53%	--	--	--	--	--	--
60A	60	758.00	757.82	0.41%	--	--	--	--	--	--
60B	60	757.94	757.82	0.39%	--	--	--	--	--	--
EW60	60	761.83	759.65	24.22%	--	--	--	--	--	--
60	61	749.94	749.44	0.57%	--	--	--	--	--	--
61A	61	757.94	757.75	0.43%	--	--	--	--	--	--
EW2	61B	756.00	753.50	5.81%	--	--	--	--	--	--
61B	61	753.50	753.25	0.78%	--	--	--	--	--	--
61C	61B	754.40	754.00	0.80%	--	--	--	--	--	50

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0354 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 54-INCH LF	608.0360 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 60-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
61D	61B	755.52	755.00	0.37%	--	--	--	--	--	--	--	--	--	--	--
61	62	747.94	747.38	0.43%	--	--	--	--	--	--	130	--	--	--	--
62A	62	756.70	756.50	0.45%	--	--	44	--	--	--	--	--	--	--	--
62B	62	756.63	756.50	0.41%	--	--	32	--	--	--	--	--	--	--	--
EW62	62	760.80	758.16	26.40%	--	--	10	--	--	--	--	--	--	--	--
62	64	747.38	746.45	0.44%	--	--	--	--	--	--	213	--	--	--	--
64A	64	756.00	755.50	1.14%	--	--	44	--	--	--	--	--	--	--	--
64B	64	756.00	755.50	1.56%	--	--	32	--	--	--	--	--	--	--	--
EW64	64	759.76	756.25	20.65%	--	--	17	--	--	--	--	--	--	--	--
64	67	746.45	745.52	0.43%	--	--	--	--	--	--	214	--	--	--	--
67A	67	755.00	754.50	1.14%	--	--	44	--	--	--	--	--	--	--	--
67B	67	755.00	754.50	1.52%	--	--	33	--	--	--	--	--	--	--	--
EW67	67	758.68	756.02	15.65%	--	--	17	--	--	--	--	--	--	--	--
67	69	745.52	744.61	0.44%	--	--	--	--	--	--	209	--	--	--	--
69A	69	753.75	753.25	1.14%	--	--	44	--	--	--	--	--	--	--	--
69B	69	753.75	753.25	1.56%	--	--	32	--	--	--	--	--	--	--	--
EW69	69	757.11	754.45	20.46%	--	--	13	--	--	--	--	--	--	--	--
69	71	744.61	743.68	0.44%	--	--	--	--	--	--	213	--	--	--	--
71A	71	752.00	751.00	2.22%	--	--	45	--	--	--	--	--	--	--	--
71C	71B	748.39	748.24	0.29%	--	--	--	--	--	--	--	--	--	--	--
71B	71	747.49	747.38	0.32%	--	--	34	--	--	--	--	--	--	--	--
EW71	71	755.49	752.81	17.87%	--	--	15	--	--	--	--	--	--	--	--
71	73	743.68	742.74	0.44%	--	--	--	--	--	--	214	--	--	--	--
73B	73	750.00	749.50	1.16%	--	--	43	--	--	--	--	--	--	--	--
73A	73	750.00	749.50	1.56%	--	--	32	--	--	--	--	--	--	--	--
EW73	73	753.83	751.17	22.17%	--	--	12	--	--	--	--	--	--	--	--
73	75	742.74	742.11	0.43%	--	--	--	--	--	--	147	--	--	--	--
75B	75A	748.87	748.43	1.63%	--	--	27	--	--	--	--	--	--	--	--
75A	75	748.43	748.09	1.62%	--	--	21	--	--	--	--	--	--	--	--
75D	75C	745.57	745.32	0.51%	--	--	--	--	--	--	--	--	--	--	--
75C	75	744.57	744.48	0.33%	--	--	27	--	--	--	--	--	--	--	--
75	77	742.11	740.91	0.44%	--	--	--	--	--	--	274	--	--	--	--
77A	77	747.00	746.00	2.33%	--	--	43	--	--	--	--	--	--	--	--
77B	77	747.00	746.00	3.13%	--	--	32	--	--	--	--	--	--	--	--
EW77	77	750.59	747.93	19.00%	--	--	14	--	--	--	--	--	--	--	--
77	79	740.91	740.00	0.44%	--	--	--	--	--	--	208	--	--	--	--
79A	79	745.50	745.00	1.14%	--	--	44	--	--	--	--	--	--	--	--
EW79	79	748.97	746.60	23.70%	--	--	10	--	--	--	--	--	--	--	--
EW3	79C	740.40	740.27	0.93%	--	--	--	--	--	--	--	14	--	--	--
79C	79B	740.27	740.12	0.37%	--	--	--	--	--	--	--	40	--	--	--

3

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0484 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 84-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	612.0204 PIPE UNDERDRAIN UNPERFORATED 4-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 PIPE UNDERDRAIN UNPERFORATED 8-INCH LF
61D	61B	755.52	755.00	0.37%	--	--	--	--	140	--
61	62	747.94	747.38	0.43%	--	--	--	--	--	--
62A	62	756.70	756.50	0.45%	--	--	--	--	--	--
62B	62	756.63	756.50	0.41%	--	--	--	--	--	--
EW62	62	760.80	758.16	26.40%	--	--	--	--	--	--
62	64	747.38	746.45	0.44%	--	--	--	--	--	--
64A	64	756.00	755.50	1.14%	--	--	--	--	--	--
64B	64	756.00	755.50	1.56%	--	--	--	--	--	--
EW64	64	759.76	756.25	20.65%	--	--	--	--	--	--
64	67	746.45	745.52	0.43%	--	--	--	--	--	--
67A	67	755.00	754.50	1.14%	--	--	--	--	--	--
67B	67	755.00	754.50	1.52%	--	--	--	--	--	--
EW67	67	758.68	756.02	15.65%	--	--	--	--	--	--
67	69	745.52	744.61	0.44%	--	--	--	--	--	--
69A	69	753.75	753.25	1.14%	--	--	--	--	--	--
69B	69	753.75	753.25	1.56%	--	--	--	--	--	--
EW69	69	757.11	754.45	20.46%	--	--	--	--	--	--
69	71	744.61	743.68	0.44%	--	--	--	--	--	--
71A	71	752.00	751.00	2.22%	--	--	--	--	--	--
71C	71B	748.39	748.24	0.29%	--	--	--	--	51	--
71B	71	747.49	747.38	0.32%	--	--	--	--	--	--
EW71	71	755.49	752.81	17.87%	--	--	--	--	--	--
71	73	743.68	742.74	0.44%	--	--	--	--	--	--
73B	73	750.00	749.50	1.16%	--	--	--	--	--	--
73A	73	750.00	749.50	1.56%	--	--	--	--	--	--
EW73	73	753.83	751.17	22.17%	--	--	--	--	--	--
73	75	742.74	742.11	0.43%	--	--	--	--	--	--
75B	75A	748.87	748.43	1.63%	--	--	--	--	--	--
75A	75	748.43	748.09	1.62%	--	--	--	--	--	--
75D	75C	745.57	745.32	0.51%	--	--	--	--	49	--
75C	75	744.57	744.48	0.33%	--	--	--	--	--	--
75	77	742.11	740.91	0.44%	--	--	--	--	--	--
77A	77	747.00	746.00	2.33%	--	--	--	--	--	--
77B	77	747.00	746.00	3.13%	--	--	--	--	--	--
EW77	77	750.59	747.93	19.00%	--	--	--	--	--	--
77	79	740.91	740.00	0.44%	--	--	--	--	--	--
79A	79	745.50	745.00	1.14%	--	--	--	--	--	--
EW79	79	748.97	746.60	23.70%	--	--	--	--	--	--
EW3	79C	740.40	740.27	0.93%	--	--	--	--	--	--
79C	79B	740.27	740.12	0.37%	--	--	--	--	--	--

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0354 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 54-INCH LF	608.0360 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 60-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
79B	79	740.12	740.00	0.38%	--	--	--	--	--	--	--	32	--	--	--
79E	79C	741.75	741.41	0.34%	--	--	--	--	--	--	--	--	--	--	--
79D	79C	741.35	741.05	0.25%	--	--	--	--	--	--	--	--	--	--	--
79	81	739.00	738.10	0.43%	--	--	--	--	--	--	--	--	207	--	--
81A	81	744.00	743.50	1.14%	--	--	44	--	--	--	--	--	--	--	--
81B	81	744.00	743.50	1.56%	--	--	32	--	--	--	--	--	--	--	--
EW81	81	747.40	744.91	22.64%	--	--	11	--	--	--	--	--	--	--	--
81	82	738.10	737.75	0.42%	--	--	--	--	--	--	--	--	83	--	--
82A	82	743.00	742.50	1.11%	--	--	45	--	--	--	--	--	--	--	--
EW4	82B	739.00	738.69	0.61%	--	--	--	--	--	--	--	51	--	--	--
82B	82	738.69	738.57	0.38%	--	--	--	--	--	--	--	32	--	--	--
82	84	737.75	737.21	0.43%	--	--	--	--	--	--	--	--	127	--	--
84A	84	742.00	741.50	0.94%	--	--	53	--	--	--	--	--	--	--	--
EW84	84	745.79	742.63	31.60%	--	--	10	--	--	--	--	--	--	--	--
84C	84B	739.87	739.79	0.28%	--	--	--	--	--	--	--	--	--	--	--
84B	84	739.79	739.68	0.39%	--	--	28	--	--	--	--	--	--	--	--
84	85	737.21	736.37	0.44%	--	--	--	--	--	--	--	--	193	--	--
86B	86A	740.20	740.00	0.77%	--	--	26	--	--	--	--	--	--	--	--
86A	85	740.00	739.80	1.33%	--	--	15	--	--	--	--	--	--	--	--
86C	85	740.20	739.80	0.87%	--	--	46	--	--	--	--	--	--	--	--
85	87	736.37	735.81	0.42%	--	--	--	--	--	--	--	--	133	--	--
87C	87B	739.50	739.21	0.46%	--	--	63	--	--	--	--	--	--	--	--
87B	87A	739.21	739.18	0.33%	--	--	9	--	--	--	--	--	--	--	--
87A	87	739.18	739.07	0.39%	--	--	28	--	--	--	--	--	--	--	--
87	88A	735.81	734.75	0.93%	--	--	--	--	--	--	--	--	114	--	--
EW6	88F	737.25	737.10	0.42%	--	--	--	--	--	36	--	--	--	--	--
88F	88E	737.10	736.95	0.38%	--	--	--	--	--	39	--	--	--	--	--
88E	88D	736.95	736.93	0.22%	--	--	--	--	--	9	--	--	--	--	--
88D	88C	736.93	736.88	0.33%	--	--	--	--	--	15	--	--	--	--	--
88C	88B	736.88	736.86	0.22%	--	--	--	--	--	9	--	--	--	--	--
88B	88A	736.86	736.75	0.37%	--	--	--	--	--	30	--	--	--	--	--
88A	88	734.25	734.13	0.33%	--	--	--	--	--	--	--	--	--	36	--
88	EW5	734.13	733.00	0.93%	--	--	--	--	--	--	--	--	--	121	--
EW7	88	739.58	738.55	2.71%	--	--	38	--	--	--	--	--	--	--	--
STAGE 2 SUBTOTAL					--	39	1,875	138	769	213	1,822	169	857	157	--
PROJECT 2704-00-75 TOTAL					1	39	3,005	940	996	213	1,822	169	857	157	517

3

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0484 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 84-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	612.0204 PIPE UNDERDRAIN UNPERFORATED 4-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 PIPE UNDERDRAIN UNPERFORATED 8-INCH LF
79B	79	740.12	740.00	0.38%	--	--	--	--	--	--
79E	79C	741.75	741.41	0.34%	--	--	--	--	100	--
79D	79C	741.35	741.05	0.25%	--	--	--	--	121	--
79	81	739.00	738.10	0.43%	--	--	--	--	--	--
81A	81	744.00	743.50	1.14%	--	--	--	--	--	--
81B	81	744.00	743.50	1.56%	--	--	--	--	--	--
EW81	81	747.40	744.91	22.64%	--	--	--	--	--	--
81	82	738.10	737.75	0.42%	--	--	--	--	--	--
82A	82	743.00	742.50	1.11%	--	--	--	--	--	--
EW4	82B	739.00	738.69	0.61%	--	--	--	--	--	--
82B	82	738.69	738.57	0.38%	--	--	--	--	--	--
82	84	737.75	737.21	0.43%	--	--	--	--	--	--
84A	84	742.00	741.50	0.94%	--	--	--	--	--	--
EW84	84	745.79	742.63	31.60%	--	--	--	--	--	--
84C	84B	739.87	739.79	0.28%	--	--	--	--	29	--
84B	84	739.79	739.68	0.39%	--	--	--	--	--	--
84	85	737.21	736.37	0.44%	--	--	--	--	--	--
86B	86A	740.20	740.00	0.77%	--	--	--	--	--	--
86A	85	740.00	739.80	1.33%	--	--	--	--	--	--
86C	85	740.20	739.80	0.87%	--	--	--	--	--	--
85	87	736.37	735.81	0.42%	--	--	--	--	--	--
87C	87B	739.50	739.21	0.46%	--	--	--	--	--	--
87B	87A	739.21	739.18	0.33%	--	--	--	--	--	--
87A	87	739.18	739.07	0.39%	--	--	--	--	--	--
87	88A	735.81	734.75	0.93%	--	--	--	--	--	--
EW6	88F	737.25	737.10	0.42%	--	--	--	--	--	--
88F	88E	737.10	736.95	0.38%	--	--	--	--	--	--
88E	88D	736.95	736.93	0.22%	--	--	--	--	--	--
88D	88C	736.93	736.88	0.33%	--	--	--	--	--	--
88C	88B	736.88	736.86	0.22%	--	--	--	--	--	--
88B	88A	736.86	736.75	0.37%	--	--	--	--	--	--
88A	88	734.25	734.13	0.33%	--	--	--	--	--	--
88	EW5	734.13	733.00	0.93%	--	--	--	--	--	--
EW7	88	739.58	738.55	2.71%	--	--	--	--	--	--
STAGE 2 SUBTOTAL					--	--	--	42	1,024	50
PROJECT 2704-00-75 TOTAL					96	149	32	42	1,121	50

STORM SEWER STRUCTURES

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1024* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	522.1060 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH
STAGE 1															
INTERNATIONAL DRIVE															
EW8	87NDR+96.94	86.81 RT	0.00	--	737.36	--	--	--	--	--	--	--	--	--	--
88H	87NDR+89.36	97.81' RT	739.55	--	737.44	--	--	--	--	--	--	1	--	--	--
88I	87NDR+44.64	87.92 RT	739.88	--	737.59	--	--	--	--	--	--	1	--	--	--
88J	87NDR+01.23	79.30 RT	740.58	--	737.73	--	--	--	--	--	--	1	--	--	--
89A	89NDR+34.60	28.02 RT	742.32	--	737.07	--	--	--	--	--	--	--	--	1	--
89B	89SDR+27.59	10.50 RT	741.90	--	736.85	--	--	--	--	--	--	--	--	--	1
89C	89SDR+93.10	10.50 RT	741.39	--	736.57	--	--	--	--	--	--	--	--	--	1
89D	89SDR+93.65	37.50 LT	741.39	--	736.77	--	--	--	--	--	--	--	--	1	--
90B	90SDR+47.31	10.50 RT	741.05	--	736.34	--	--	--	--	--	--	--	--	--	1
90C	90SDR+47.34	1.50 RT	741.29	--	736.32	--	--	--	--	--	--	--	--	--	1
91A	91NDR+06.58	25.50 RT	741.31	--	736.48	--	--	--	--	--	--	--	--	--	--
91B	91NDR+07.08	1.50 LT	741.31	--	736.39	--	--	--	--	--	--	--	--	--	--
91M	90SDR+70.00	35.46 LT	741.00	--	736.14	--	--	--	--	--	--	--	--	1	--
91Q	90SDR+79.93	24.33 RT	740.71	--	736.00	--	--	--	--	--	--	--	--	1	--
91S	91NDR+50.70	1.50 LT	741.30	--	736.56	--	--	--	--	--	--	--	--	1	--
92C	91NDR+07.26	12.81 LT	740.71	--	735.50	--	--	--	--	--	--	--	--	--	--
93D	91SDR+04.81	30.87 LT	741.02	--	735.31	--	--	--	--	--	--	--	--	--	--
EW9	91SDR+05.58	76.29 LT	0.00	--	735.00	--	--	1	--	--	--	--	--	--	--
93E	91NDR+26.03	25.50 RT	741.29	--	736.56	--	--	--	--	--	--	--	--	1	--
93F	91NDR+26.25	1.50 LT	741.30	--	736.47	--	--	--	--	--	--	--	--	1	--
93G	91NDR+26.39	14.06 LT	740.73	--	736.00	--	--	--	--	--	--	--	--	1	--
93H	91SDR+25.96	28.76 LT	741.07	--	736.17	--	--	--	--	--	--	--	--	1	--
93A	92NDR+59.58	25.50 RT	741.77	--	736.52	--	--	--	--	--	--	--	--	1	--
93B	92NDR+59.40	1.50 LT	741.77	--	736.43	--	--	--	--	--	--	--	--	1	--
93C	92SDR+60.54	10.44 RT	741.46	--	736.37	--	--	--	--	--	--	--	--	1	--
93P	92SDR+58.74	25.50 LT	741.64	--	736.24	--	--	--	--	--	--	--	--	1	--
EW10	92SDR+57.87	59.83 LT	0.00	--	736.11	--	1	--	--	--	--	--	--	--	--
EW12	94NDR+00.53	72.00 RT	0.00	--	735.94	--	--	1	--	--	--	--	--	--	--
94A	94NDR+00.94	25.50 RT	742.56	--	735.72	--	--	--	--	--	--	--	--	1	--
94B	94NDR+00.17	11.02 LT	743.09	--	735.56	--	--	--	--	--	--	1	--	--	--
94D	94SDR+04.20	25.50 LT	742.45	--	735.39	--	--	--	--	--	--	--	--	1	--
EW94	94NDR+16.38	11.49 LT	0.00	--	741.47	1	--	--	--	--	--	--	--	--	--
EW11	94SDR+03.48	70.81 LT	0.00	--	735.17	--	--	1	--	--	--	--	--	--	--
96A	96NDR+12.62	25.50 RT	744.01	--	739.00	--	--	--	--	--	--	--	--	1	--
96B	96NDR+09.38	12.22 LT	743.64	--	738.83	--	--	--	--	--	--	1	--	--	--
96D	96SDR+10.96	25.50 LT	743.93	--	738.67	--	--	--	--	--	--	--	--	1	--
EW96	96NDR+20.48	12.24 LT	0.00	--	742.51	1	--	--	--	--	--	--	--	--	--
EW13	96SDR+07.27	68.22 LT	0.00	--	738.47	--	1	--	--	--	--	--	--	--	--
98A	98NDR+27.73	25.50 RT	745.10	--	739.72	--	--	--	--	--	--	--	--	1	--
98B	98NDR+26.25	12.02 LT	744.58	--	739.55	--	--	--	--	--	--	1	--	--	--

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	611.0627 INLET COVERS TYPE HS EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.013 MANHOLES 2-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 8-FT DIAMETER EACH	SPV.0060.014 MANHOLES 9-FT DIAMETER EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.9800.S PIPE GRATES EACH	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	633.5200* MARKERS CULVERT END EACH
STAGE 1																	
INTERNATIONAL DRIVE																	
EW8	87NDR+96.94	86.81 RT	0.00	--	737.36	--	--	--	--	--	--	--	--	--	--	1	--
88H	87NDR+89.36	97.81' RT	739.55	--	737.44	--	--	--	1	--	--	--	--	--	--	--	--
88I	87NDR+44.64	87.92 RT	739.88	--	737.59	--	--	--	1	--	--	--	--	--	--	--	--
88J	87NDR+01.23	79.30 RT	740.58	--	737.73	--	--	--	1	--	--	--	--	--	--	--	--
89A	89NDR+34.60	28.02 RT	742.32	--	737.07	--	--	--	1	--	--	--	--	--	--	--	--
89B	89SDR+27.59	10.50 RT	741.90	--	736.85	--	--	--	1	--	--	--	--	--	--	--	--
89C	89SDR+93.10	10.50 RT	741.39	--	736.57	--	--	--	1	--	--	--	--	--	--	--	--
89D	89SDR+93.65	37.50 LT	741.39	--	736.77	--	--	--	1	--	--	--	--	--	--	--	--
90B	90SDR+47.31	10.50 RT	741.05	--	736.34	--	--	--	1	--	--	--	--	--	--	--	--
90C	90SDR+47.34	1.50 RT	741.29	--	736.32	--	--	--	1	--	--	--	--	--	--	--	--
91A	91NDR+06.58	25.50 RT	741.31	--	736.48	1	--	--	1	--	--	--	--	--	--	--	--
91B	91NDR+07.08	1.50 LT	741.31	--	736.39	1	--	--	1	--	--	--	--	--	--	--	--
91M	90SDR+70.00	35.46 LT	741.00	--	736.14	--	--	--	1	--	--	--	--	--	--	--	--
91Q	90SDR+79.93	24.33 RT	740.71	--	736.00	--	--	--	1	--	--	--	--	--	--	--	--
91S	91NDR+50.70	1.50 LT	741.30	--	736.56	--	--	--	1	--	--	--	--	--	--	--	--
92C	91NDR+07.26	12.81 LT	740.71	--	735.50	1	--	--	1	--	--	--	--	--	--	--	--
93D	91SDR+04.81	30.87 LT	741.02	--	735.31	1	--	--	--	--	1	--	--	--	--	--	--
EW9	91SDR+05.58	76.29 LT	0.00	--	735.00	--	--	--	--	--	--	--	--	--	1	--	1
93E	91NDR+26.03	25.50 RT	741.29	--	736.56	--	--	--	1	--	--	--	--	--	--	--	--
93F	91NDR+26.25	1.50 LT	741.30	--	736.47	--	--	--	1	--	--	--	--	--	--	--	--
93G	91NDR+26.39	14.06 LT	740.73	--	736.00	--	--	--	1	--	--	--	--	--	--	--	--
93H	91SDR+25.96	28.76 LT	741.07	--	736.17	--	--	--	1	--	--	--	--	--	--	--	--
93A	92NDR+59.58	25.50 RT	741.77	--	736.52	--	--	--	1	--	--	--	--	--	--	--	--
93B	92NDR+59.40	1.50 LT	741.77	--	736.43	--	--	--	1	--	--	--	--	--	--	--	--
93C	92SDR+60.54	10.44 RT	741.46	--	736.37	--	--	--	1	--	--	--	--	--	--	--	--
93P	92SDR+58.74	25.50 LT	741.64	--	736.24	--	--	--	1	--	--	--	--	--	--	--	--
EW10	92SDR+57.87	59.83 LT	0.00	--	736.11	--	--	--	--	--	--	--	--	--	1	--	1
EW12	94NDR+00.53	72.00 RT	0.00	--	735.94	--	--	--	--	--	--	--	--	--	1	--	1
94A	94NDR+00.94	25.50 RT	742.56	--	735.72	--	--	--	1	--	--	--	--	--	--	--	--
94B	94NDR+00.17	11.02 LT	743.09	--	735.56	--	--	--	--	1	--	--	--	--	--	--	--
94D	94SDR+04.20	25.50 LT	742.45	--	735.39	--	--	--	1	--	--	--	--	--	--	--	--
EW94	94NDR+16.38	11.49 LT	0.00	--	741.47	--	--	--	--	--	--	--	--	--	--	--	--
EW11	94SDR+03.48	70.81 LT	0.00	--	735.17	--	--	--	--	--	--	--	--	--	1	--	1
96A	96NDR+12.62	25.50 RT	744.01	--	739.00	--	--	--	1	--	--	--	--	--	--	--	--
96B	96NDR+09.38	12.22 LT	743.64	--	738.83	--	--	--	--	1	--	--	--	--	--	--	--
96D	96SDR+10.96	25.50 LT	743.93	--	738.67	--	--	--	1	--	--	--	--	--	--	--	--
EW96	96NDR+20.48	12.24 LT	0.00	--	742.51	--	--	--	--	--	--	--	--	--	--	--	--
EW13	96SDR+07.27	68.22 LT	0.00	--	738.47	--	--	--	--	--	--	--	--	--	1	--	1
98A	98NDR+27.73	25.50 RT	745.10	--	739.72	--	--	--	1	--	--	--	--	--	--	--	--
98B	98NDR+26.25	12.02 LT	744.58	--	739.55	--	--	--	--	1	--	--	--	--	--	--	--

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1024* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	522.1060 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH
98D	98SDR+28.37	25.50 LT	745.05	--	734.00	--	--	--	--	--	--	--	--	1	--
EW98	98NDR+36.94	12.22 LT	0.00	--	743.59	1	--	--	--	--	--	--	--	--	--
EW14	98SDR+26.22	79.42 LT	0.00	--	733.73	--	--	1	--	--	--	--	--	--	--
102A	101NDR+96.19	25.50 RT	746.48	--	740.50	--	--	--	--	--	--	--	--	1	--
102B	101NDR+97.14	1.50 LT	745.99	--	740.41	--	--	--	--	--	--	--	--	1	--
102C	101SDR+99.62	1.50 RT	745.99	--	740.34	--	--	--	--	--	--	--	--	1	--
102D	102SDR+00.22	25.50 LT	746.47	--	736.15	--	--	--	--	--	--	--	--	1	--
104A	104NDR+15.01	25.50 RT	744.76	--	739.08	--	--	--	--	--	--	--	--	1	--
104B	104NDR+15.37	11.89 LT	744.35	--	738.92	--	--	--	--	--	--	1	--	--	--
104D	104SDR+16.50	25.50 LT	744.72	--	737.10	--	--	--	--	--	--	--	--	1	--
EW104	104NDR+03.08	11.58 LT	0.00	--	741.83	1	--	--	--	--	--	--	--	--	--
106A	105NDR+33.82	25.50 RT	743.52	--	738.40	--	--	--	--	--	--	--	--	1	--
106B	105NDR+33.61	1.50 LT	743.21	--	738.30	--	--	--	--	--	--	--	--	1	--
106C	105SDR+34.23	1.50 RT	743.15	--	738.22	--	--	--	--	--	--	--	--	1	--
106D	105SDR+34.02	25.50 LT	743.64	--	737.61	--	--	--	--	--	--	--	--	1	--
106E	106SDR+41.12	1.50 RT	742.06	--	738.48	--	--	--	--	--	--	--	--	1	--
106F	106SDR+42.06	25.50 LT	742.53	--	738.38	--	--	--	--	--	--	--	--	1	--
106G	106NDR+39.60	1.50 LT	742.13	--	738.56	--	--	--	--	--	--	--	--	1	--
106H	106NDR+38.66	25.50 RT	742.02	--	738.66	--	--	--	--	--	--	--	--	1	--
107	107NDR+31.46	25.50 RT	740.98	--	730.99	--	--	--	--	--	--	--	1	--	--
108A	108NDR+51.90	25.50 RT	739.83	--	734.90	--	--	--	--	--	--	--	--	1	--
108B	108NDR+52.44	12.55 LT	741.02	--	735.05	--	--	--	--	--	--	1	--	--	--
108D	108SDR+53.75	25.50 LT	740.69	--	735.20	--	--	--	--	--	--	--	--	1	--
EW108	108NDR+34.30	12.48 LT	0.00	--	737.95	1	--	--	--	--	--	--	--	--	--
110C	110SDR+69.62	25.50 LT	738.55	--	734.22	--	--	--	--	--	--	--	--	1	--
110D	110SDR+83.25	25.50 LT	738.52	--	734.18	--	--	--	--	--	--	--	--	1	--
110E	110NDR+50.46	25.50 RT	738.55	--	734.03	--	--	--	--	--	--	--	--	1	--
110G	110SDR+81.60	1.50 RT	738.52	--	734.08	--	--	--	--	--	--	--	--	1	--
110H	110NDR+79.15	1.50 LT	738.59	--	733.74	--	--	--	--	--	--	--	--	1	--
110J	110NDR+96.16	25.50 RT	738.61	--	733.61	--	--	--	--	--	--	--	--	1	--
110K	110NDR+63.69	25.50 RT	738.55	--	733.99	--	--	--	--	--	--	--	--	1	--
110L	110SDR+68.63	1.50 RT	738.52	--	734.12	--	--	--	--	--	--	--	--	1	--
110M	110NDR+67.63	1.50 LT	738.59	--	734.02	--	--	--	--	--	--	--	--	1	--
EW110	110NDR+49.19	12.72 LT	0.00	--	734.61	1	--	--	--	--	--	--	--	--	--
112	111NDR+58.93	12.45 RT	739.20	--	733.34	--	--	--	--	--	--	1	--	--	--
STAGE 1 SUBTOTAL						6	2	4	--	--	--	9	1	44	4

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	611.0627 INLET COVERS TYPE HS EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.013 MANHOLES 2-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 8-FT DIAMETER EACH	SPV.0060.014 MANHOLES 9-FT DIAMETER EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.9800.S PIPE GRATES EACH	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	633.5200* MARKERS CULVERT END EACH
98D	98SDR+28.37	25.50 LT	745.05	--	734.00	--	--	--	1	--	--	--	--	--	--	--	--
EW98	98NDR+36.94	12.22 LT	0.00	--	743.59	--	--	--	--	--	--	--	--	--	--	--	--
EW14	98SDR+26.22	79.42 LT	0.00	--	733.73	--	--	--	--	--	--	--	--	--	1	--	1
102A	101NDR+96.19	25.50 RT	746.48	--	740.50	--	--	--	1	--	--	--	--	--	--	--	--
102B	101NDR+97.14	1.50 LT	745.99	--	740.41	--	--	--	1	--	--	--	--	--	--	--	--
102C	101SDR+99.62	1.50 RT	745.99	--	740.34	--	--	--	1	--	--	--	--	--	--	--	--
102D	102SDR+00.22	25.50 LT	746.47	--	736.15	--	--	--	1	--	--	--	--	--	--	--	--
104A	104NDR+15.01	25.50 RT	744.76	--	739.08	--	--	--	1	--	--	--	--	--	--	--	--
104B	104NDR+15.37	11.89 LT	744.35	--	738.92	--	--	--	--	1	--	--	--	--	--	--	--
104D	104SDR+16.50	25.50 LT	744.72	--	737.10	--	--	--	1	--	--	--	--	--	--	--	--
EW104	104NDR+03.08	11.58 LT	0.00	--	741.83	--	--	--	--	--	--	--	--	--	--	--	--
106A	105NDR+33.82	25.50 RT	743.52	--	738.40	--	--	--	1	--	--	--	--	--	--	--	--
106B	105NDR+33.61	1.50 LT	743.21	--	738.30	--	--	--	1	--	--	--	--	--	--	--	--
106C	105SDR+34.23	1.50 RT	743.15	--	738.22	--	--	--	1	--	--	--	--	--	--	--	--
106D	105SDR+34.02	25.50 LT	743.64	--	737.61	--	--	--	1	--	--	--	--	--	--	--	--
106E	106SDR+41.12	1.50 RT	742.06	--	738.48	--	--	--	1	--	--	--	--	--	--	--	--
106F	106SDR+42.06	25.50 LT	742.53	--	738.38	--	--	--	1	--	--	--	--	--	--	--	--
106G	106NDR+39.60	1.50 LT	742.13	--	738.56	--	--	--	1	--	--	--	--	--	--	--	--
106H	106NDR+38.66	25.50 RT	742.02	--	738.66	--	--	--	1	--	--	--	--	--	--	--	--
107	107NDR+31.46	25.50 RT	740.98	--	730.99	--	--	--	--	--	--	--	1	--	--	--	--
108A	108NDR+51.90	25.50 RT	739.83	--	734.90	--	--	--	--	1	--	--	--	--	--	--	--
108B	108NDR+52.44	12.55 LT	741.02	--	735.05	--	--	--	--	1	--	--	--	--	--	--	--
108D	108SDR+53.75	25.50 LT	740.69	--	735.20	--	--	--	1	--	--	--	--	--	--	--	--
EW108	108NDR+34.30	12.48 LT	0.00	--	737.95	--	--	--	--	--	--	--	--	--	--	--	--
110C	110SDR+69.62	25.50 LT	738.55	--	734.22	--	--	--	1	--	--	--	--	--	--	--	--
110D	110SDR+83.25	25.50 LT	738.52	--	734.18	--	--	--	1	--	--	--	--	--	--	--	--
110E	110NDR+50.46	25.50 RT	738.55	--	734.03	--	--	--	1	--	--	--	--	--	--	--	--
110G	110SDR+81.60	1.50 RT	738.52	--	734.08	--	--	--	1	--	--	--	--	--	--	--	--
110H	110NDR+79.15	1.50 LT	738.59	--	733.74	--	--	--	1	--	--	--	--	--	--	--	--
110J	110NDR+96.16	25.50 RT	738.61	--	733.61	--	--	--	1	--	--	--	--	--	--	--	--
110K	110NDR+63.69	25.50 RT	738.55	--	733.99	--	--	--	1	--	--	--	--	--	--	--	--
110L	110SDR+68.63	1.50 RT	738.52	--	734.12	--	--	--	1	--	--	--	--	--	--	--	--
110M	110NDR+67.63	1.50 LT	738.59	--	734.02	--	--	--	1	--	--	--	--	--	--	--	--
EW110	110NDR+49.19	12.72 LT	0.00	--	734.61	--	--	--	--	--	--	--	--	--	--	--	--
112	111NDR+58.93	12.45 RT	739.20	--	733.34	--	--	--	1	--	--	--	--	--	--	--	--
STAGE 1 SUBTOTAL						4	--	--	54	6	1	--	1	--	6	1	6

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1024* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	522.1060 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH
STAGE 2															
INTERNATIONAL DRIVE															
52	51NDR+84.95	27.64 RT	760.06	--	754.60	--	--	--	--	--	--	--	--	1	--
52A	51NDR+85.00	1.50 LT	760.10	--	754.72	--	--	--	--	--	--	--	--	1	--
52B	51NDR+85.02	10.50 LT	759.51	--	754.74	--	--	--	--	--	--	--	--	1	--
52C	51SDR+85.05	10.00 RT	759.75	--	754.79	--	--	--	--	--	--	--	--	--	1
52D	51SDR+85.11	22.00 LT	759.99	--	754.92	--	--	--	--	--	--	--	--	--	1
52E	51SDR+85.14	37.50 LT	759.75	--	754.97	--	--	--	--	--	--	--	--	1	--
53	52NDR+67.80	25.50 RT	760.60	--	754.25	--	--	--	--	--	--	--	--	1	--
53A	52NDR+67.85	1.50 LT	760.60	--	755.53	--	--	--	--	--	--	--	--	1	--
53B	52NDR+67.79	10.50 LT	760.05	--	755.56	--	--	--	--	--	--	--	--	1	--
53C	52SDR+67.59	37.50 LT	760.29	--	755.85	--	--	--	--	--	--	--	--	1	--
53D	52NDR+93.27	58.88 RT	759.34	--	755.27	--	--	--	--	--	--	1	--	--	--
53E	52NDR+31.16	59.86 RT	759.90	--	755.25	--	--	--	--	--	--	1	--	--	--
54	54NDR+05.90	25.50 RT	761.44	--	753.15	--	--	--	--	--	--	--	--	1	--
54A	54NDR+00.00	1.50 LT	761.40	--	756.35	--	--	--	--	--	--	--	--	1	--
54B	54SDR+00.04	16.73 RT	761.11	--	756.41	--	--	--	--	--	--	--	--	1	--
54M	54SDR+00.10	27.32 LT	761.37	--	756.59	--	--	--	--	--	--	--	--	1	--
EW1	53NDR+86.92	63.17 RT	0.00	--	756.00	--	--	1	--	--	--	--	--	--	--
54C	54NDR+23.82	59.71 RT	758.75	--	753.75	--	--	--	--	--	--	1	--	--	--
54D	55NDR+10.62	61.69 RT	758.92	--	754.80	--	--	--	--	--	--	1	--	--	--
54E	55NDR+88.97	62.97 RT	759.37	--	755.23	--	--	--	--	--	--	1	--	--	--
54F	56NDR+69.04	61.73 RT	760.20	--	755.46	--	--	--	--	--	--	1	--	--	--
54G	57NDR+40.34	61.08 RT	760.77	--	755.67	--	--	--	--	--	--	1	--	--	--
54H	58NDR+18.65	62.17 RT	760.69	--	756.47	--	--	--	--	--	--	1	--	--	--
54I	59NDR+08.12	61.75 RT	760.60	--	757.06	--	--	--	--	--	--	1	--	--	--
55	55NDR+04.81	14.50 LT	760.95	--	752.65	--	--	--	--	--	--	--	--	--	--
55A	55SDR+05.05	9.13 RT	761.92	--	757.48	--	--	--	--	--	--	--	--	1	--
55B	55SDR+04.84	25.50 LT	762.07	--	757.63	--	--	--	--	--	--	--	--	1	--
55C	55NDR+05.00	1.50 LT	762.03	--	757.59	--	--	--	--	--	--	--	--	1	--
55D	55NDR+05.00	25.50 RT	762.19	--	757.74	--	--	--	--	--	--	--	--	1	--
58	57NDR+65.06	6.00 LT	764.18	--	751.37	--	--	--	--	--	--	1	--	--	--
58A	57NDR+65.65	25.50 LT	764.20	--	758.50	--	--	--	--	--	--	--	--	1	--
58B	57NDR+64.69	25.50 RT	764.04	--	758.43	--	--	--	--	--	--	--	--	1	--
60	60NDR+36.87	6.00 LT	763.40	--	749.94	--	--	--	--	--	--	1	--	--	--
60A	60SDR+37.44	25.50 LT	763.50	--	758.00	--	--	--	--	--	--	--	--	1	--
60B	60NDR+36.94	25.50 RT	763.38	--	757.94	--	--	--	--	--	--	--	--	1	--
EW60	60NDR+28.29	11.07 LT	0.00	--	761.83	1	--	--	--	--	--	--	--	--	--
61	61NDR+24.24	6.00 LT	762.99	--	747.94	--	--	--	--	--	--	1	--	--	--
61A	61SDR+19.76	25.50 LT	763.05	--	757.94	--	--	--	--	--	--	--	--	1	--
61B	61NDR+20.24	25.50 RT	762.95	--	753.50	--	--	--	--	--	--	--	--	1	--
61D	59NDR+86.63	66.06 RT	759.27	--	755.52	--	--	--	--	--	--	1	--	--	--
61C	61NDR+48.42	66.11 RT	758.39	--	754.40	--	--	--	--	--	--	1	--	--	--

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STAGE 2	STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	611.0627 INLET COVERS TYPE HS EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.013 MANHOLES 2-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 8-FT DIAMETER EACH	SPV.0060.014 MANHOLES 9-FT DIAMETER EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.9800.S PIPE GRATES EACH	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	633.5200* MARKERS CULVERT END EACH
	INTERNATIONAL DRIVE																	
	52	51NDR+84.95	27.64 RT	760.06	--	754.60	--	--	--	1	--	--	--	--	--	--	--	--
	52A	51NDR+85.00	1.50 LT	760.10	--	754.72	--	--	--	1	--	--	--	--	--	--	--	--
	52B	51NDR+85.02	10.50 LT	759.51	--	754.74	--	--	--	1	--	--	--	--	--	--	--	--
	52C	51SDR+85.05	10.00 RT	759.75	--	754.79	--	--	--	1	--	--	--	--	--	--	--	--
	52D	51SDR+85.11	22.00 LT	759.99	--	754.92	--	--	--	1	--	--	--	--	--	--	--	--
	52E	51SDR+85.14	37.50 LT	759.75	--	754.97	--	--	--	1	--	--	--	--	--	--	--	--
	53	52NDR+67.80	25.50 RT	760.60	--	754.25	--	--	--	1	--	--	--	--	--	--	--	--
	53A	52NDR+67.85	1.50 LT	760.60	--	755.53	--	--	--	1	--	--	--	--	--	--	--	--
	53B	52NDR+67.79	10.50 LT	760.05	--	755.56	--	--	--	1	--	--	--	--	--	--	--	--
	53C	52SDR+67.59	37.50 LT	760.29	--	755.85	--	--	--	1	--	--	--	--	--	--	--	--
	53D	52NDR+93.27	58.88 RT	759.34	--	755.27	--	--	--	1	--	--	--	--	--	--	--	--
	53E	52NDR+31.16	59.86 RT	759.90	--	755.25	--	--	--	1	--	--	--	--	--	--	--	--
	54	54NDR+05.90	25.50 RT	761.44	--	753.15	--	--	--	--	--	1	--	--	--	--	--	--
	54A	54NDR+00.00	1.50 LT	761.40	--	756.35	--	--	--	1	--	--	--	--	--	--	--	--
	54B	54SDR+00.04	16.73 RT	761.11	--	756.41	--	--	--	1	--	--	--	--	--	--	--	--
	54M	54SDR+00.10	27.32 LT	761.37	--	756.59	--	--	--	1	--	--	--	--	--	--	--	--
	EW1	53NDR+86.92	63.17 RT	0.00	--	756.00	--	--	--	--	--	--	--	--	--	1	--	1
	54C	54NDR+23.82	59.71 RT	758.75	--	753.75	--	--	--	1	--	--	--	--	--	--	--	--
	54D	55NDR+10.62	61.69 RT	758.92	--	754.80	--	--	1	--	--	--	--	--	--	--	--	--
	54E	55NDR+88.97	62.97 RT	759.37	--	755.23	--	--	1	--	--	--	--	--	--	--	--	--
	54F	56NDR+69.04	61.73 RT	760.20	--	755.46	--	--	1	--	--	--	--	--	--	--	--	--
	54G	57NDR+40.34	61.08 RT	760.77	--	755.67	--	--	1	--	--	--	--	--	--	--	--	--
	54H	58NDR+18.65	62.17 RT	760.69	--	756.47	--	--	1	--	--	--	--	--	--	--	--	--
	54I	59NDR+08.12	61.75 RT	760.60	--	757.06	--	--	--	1	--	--	--	--	--	--	--	--
	55	55NDR+04.81	14.50 LT	760.95	--	752.65	--	2	--	--	--	--	--	--	1	--	--	--
	55A	55SDR+05.05	9.13 RT	761.92	--	757.48	--	--	--	1	--	--	--	--	--	--	--	--
	55B	55SDR+04.84	25.50 LT	762.07	--	757.63	--	--	--	1	--	--	--	--	--	--	--	--
	55C	55NDR+05.00	1.50 LT	762.03	--	757.59	--	--	--	1	--	--	--	--	--	--	--	--
	55D	55NDR+05.00	25.50 RT	762.19	--	757.74	--	--	--	1	--	--	--	--	--	--	--	--
	58	57NDR+65.06	6.00 LT	764.18	--	751.37	--	--	--	1	--	--	--	--	--	--	--	--
	58A	57NDR+65.65	25.50 LT	764.20	--	758.50	--	--	--	1	--	--	--	--	--	--	--	--
	58B	57NDR+64.69	25.50 RT	764.04	--	758.43	--	--	--	1	--	--	--	--	--	--	--	--
	60	60NDR+36.87	6.00 LT	763.40	--	749.94	--	--	--	1	--	--	--	--	--	--	--	--
	60A	60SDR+37.44	25.50 LT	763.50	--	758.00	--	--	--	1	--	--	--	--	--	--	--	--
	60B	60NDR+36.94	25.50 RT	763.38	--	757.94	--	--	--	1	--	--	--	--	--	--	--	--
	EW60	60NDR+28.29	11.07 LT	0.00	--	761.83	--	--	--	--	--	--	--	--	--	--	--	--
	61	61NDR+24.24	6.00 LT	762.99	--	747.94	--	--	--	--	--	1	--	--	--	--	--	--
	61A	61SDR+19.76	25.50 LT	763.05	--	757.94	--	--	--	1	--	--	--	--	--	--	--	--
	61B	61NDR+20.24	25.50 RT	762.95	--	753.50	--	--	--	--	--	1	--	--	--	--	--	--
	61D	59NDR+86.63	66.06 RT	759.27	--	755.52	--	--	--	1	--	--	--	--	--	--	--	--
	61C	61NDR+48.42	66.11 RT	758.39	--	754.40	--	--	--	1	--	--	--	--	--	--	--	--

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1024* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	522.1060 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH
EW2	61NDR+20.36	68.85 RT	0.00	--	756.00	--	--	--	1	--	--	--	--	--	--
62	62NDR+54.54	6.00 LT	762.33	--	747.38	--	--	--	--	--	--	1	--	--	--
62A	62NDR+51.52	25.50 LT	762.38	--	756.70	--	--	--	--	--	--	--	--	1	--
62B	62NDR+54.64	25.50 RT	762.32	--	756.63	--	--	--	--	--	--	--	--	1	--
EW62	62NDR+42.50	10.28 LT	0.00	--	760.80	1	--	--	--	--	--	--	--	--	--
64	64NDR+69.37	6.00 LT	761.27	--	746.45	--	--	--	--	--	--	1	--	--	--
64A	64SDR+51.37	25.50 LT	761.33	--	756.00	--	--	--	--	--	--	--	--	1	--
64B	64NDR+59.90	25.50 RT	761.31	--	756.00	--	--	--	--	--	--	--	--	1	--
EW64	64NDR+50.19	11.31 LT	0.00	--	759.76	1	--	--	--	--	--	--	--	--	--
67	66NDR+84.63	6.00 LT	760.17	--	745.52	--	--	--	--	--	--	1	--	--	--
67A	66SDR+62.03	25.50 LT	760.20	--	755.00	--	--	--	--	--	--	--	--	1	--
67B	66NDR+74.32	25.50 RT	760.21	--	755.00	--	--	--	--	--	--	--	--	1	--
EW67	66NDR+65.14	11.45 LT	0.00	--	758.68	1	--	--	--	--	--	--	--	--	--
69	68NDR+94.35	6.00 LT	758.25	--	744.61	--	--	--	--	--	--	1	--	--	--
69A	68SDR+94.46	25.50 LT	758.61	--	753.75	--	--	--	--	--	--	--	--	1	--
69B	68NDR+94.43	25.50 RT	758.58	--	753.75	--	--	--	--	--	--	--	--	1	--
EW69	68SDR+80.23	11.90 LT	0.00	--	757.11	1	--	--	--	--	--	--	--	--	--
71	71NDR+07.00	6.00 LT	756.59	--	743.68	--	--	--	--	--	--	1	--	--	--
71A	70SDR+78.70	25.50 LT	757.03	--	752.00	--	--	--	--	--	--	--	--	1	--
71B	70NDR+93.67	25.50 RT	757.03	--	747.49	--	--	--	--	--	--	--	--	1	--
71C	70NDR+59.35	62.67 RT	753.74	--	748.39	--	--	--	--	--	--	1	--	--	--
EW71	70NDR+91.02	11.61 LT	0.00	--	755.49	1	--	--	--	--	--	--	--	--	--
73	73NDR+20.82	6.00 LT	754.95	--	742.74	--	--	--	--	--	--	1	--	--	--
73A	73NDR+20.79	25.50 RT	755.29	--	750.00	--	--	--	--	--	--	--	--	1	--
73B	73NDR+02.05	25.50 LT	755.32	--	750.00	--	--	--	--	--	--	--	--	1	--
EW73	73NDR+07.63	10.82 LT	0.00	--	753.83	1	--	--	--	--	--	--	--	--	--
75	74NDR+67.39	1.50 LT	753.66	--	742.11	--	--	--	--	--	--	--	--	1	--
75A	74SDR+48.76	1.50 RT	753.69	--	748.43	--	--	--	--	--	--	--	--	1	--
75B	74SDR+50.96	25.50 LT	754.16	--	748.87	--	--	--	--	--	--	--	--	1	--
75C	74NDR+67.39	25.50 RT	754.14	--	744.57	--	--	--	--	--	--	--	--	1	--
75D	74NDR+46.82	69.89 RT	748.94	--	745.57	--	--	--	--	--	--	1	--	--	--
77	77NDR+40.85	6.00 LT	752.09	--	740.91	--	--	--	--	--	--	1	--	--	--
77A	77NDR+23.09	25.50 LT	752.08	--	747.00	--	--	--	--	--	--	--	--	1	--
77B	77NDR+41.05	25.50 RT	752.06	--	747.00	--	--	--	--	--	--	--	--	1	--
EW77	77SDR+25.34	11.67 LT	0.00	--	750.59	1	--	--	--	--	--	--	--	--	--
79	79NDR+48.20	6.00 LT	750.45	--	739.00	--	--	--	--	--	--	1	--	--	--
79A	79SDR+30.47	25.50 LT	750.46	--	745.50	--	--	--	--	--	--	--	--	1	--
79B	79NDR+46.82	25.50 RT	750.51	--	740.12	--	--	--	--	--	--	--	--	1	--
79D	80NDR+50.63	67.01 RT	745.00	--	741.35	--	--	--	--	--	--	1	--	--	--
79C	79NDR+05.99	65.08 RT	747.98	--	740.27	--	--	--	--	--	--	1	--	--	--

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	611.0627 INLET COVERS TYPE HS EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.013 MANHOLES 2-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 8-FT DIAMETER EACH	SPV.0060.014 MANHOLES 9-FT DIAMETER EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.9800.S PIPE GRATES EACH	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	633.5200* MARKERS CULVERT END EACH
EW2	61NDR+20.36	68.85 RT	0.00	--	756.00	--	--	--	--	--	--	--	--	--	1	--	1
62	62NDR+54.54	6.00 LT	762.33	--	747.38	--	--	--	--	--	1	--	--	--	--	--	--
62A	62NDR+51.52	25.50 LT	762.38	--	756.70	--	--	--	1	--	--	--	--	--	--	--	--
62B	62NDR+54.64	25.50 RT	762.32	--	756.63	--	--	--	1	--	--	--	--	--	--	--	--
EW62	62NDR+42.50	10.28 LT	0.00	--	760.80	--	--	--	--	--	--	--	--	--	--	--	--
64	64NDR+69.37	6.00 LT	761.27	--	746.45	--	--	--	--	--	1	--	--	--	--	--	--
64A	64SDR+51.37	25.50 LT	761.33	--	756.00	--	--	--	1	--	--	--	--	--	--	--	--
64B	64NDR+59.90	25.50 RT	761.31	--	756.00	--	--	--	1	--	--	--	--	--	--	--	--
EW64	64NDR+50.19	11.31 LT	0.00	--	759.76	--	--	--	--	--	--	--	--	--	--	--	--
67	66NDR+84.63	6.00 LT	760.17	--	745.52	--	--	--	--	--	1	--	--	--	--	--	--
67A	66SDR+62.03	25.50 LT	760.20	--	755.00	--	--	--	1	--	--	--	--	--	--	--	--
67B	66NDR+74.32	25.50 RT	760.21	--	755.00	--	--	--	1	--	--	--	--	--	--	--	--
EW67	66NDR+65.14	11.45 LT	0.00	--	758.68	--	--	--	--	--	--	--	--	--	--	--	--
69	68NDR+94.35	6.00 LT	758.25	--	744.61	--	--	--	--	--	1	--	--	--	--	--	--
69A	68SDR+94.46	25.50 LT	758.61	--	753.75	--	--	--	1	--	--	--	--	--	--	--	--
69B	68NDR+94.43	25.50 RT	758.58	--	753.75	--	--	--	1	--	--	--	--	--	--	--	--
EW69	68SDR+80.23	11.90 LT	0.00	--	757.11	--	--	--	--	--	--	--	--	--	--	--	--
71	71NDR+07.00	6.00 LT	756.59	--	743.68	--	--	--	--	--	1	--	--	--	--	--	--
71A	70SDR+78.70	25.50 LT	757.03	--	752.00	--	--	--	1	--	--	--	--	--	--	--	--
71B	70NDR+93.67	25.50 RT	757.03	--	747.49	--	--	--	1	--	--	--	--	--	--	--	--
71C	70NDR+59.35	62.67 RT	753.74	--	748.39	--	--	--	1	--	--	--	--	--	--	--	--
EW71	70NDR+91.02	11.61 LT	0.00	--	755.49	--	--	--	--	--	--	--	--	--	--	--	--
73	73NDR+20.82	6.00 LT	754.95	--	742.74	--	--	--	--	--	1	--	--	--	--	--	--
73A	73NDR+20.79	25.50 RT	755.29	--	750.00	--	--	--	1	--	--	--	--	--	--	--	--
73B	73NDR+02.05	25.50 LT	755.32	--	750.00	--	--	--	1	--	--	--	--	--	--	--	--
EW73	73NDR+07.63	10.82 LT	0.00	--	753.83	--	--	--	--	--	--	--	--	--	--	--	--
75	74NDR+67.39	1.50 LT	753.66	--	742.11	--	--	--	--	--	1	--	--	--	--	--	--
75A	74SDR+48.76	1.50 RT	753.69	--	748.43	--	--	--	1	--	--	--	--	--	--	--	--
75B	74SDR+50.96	25.50 LT	754.16	--	748.87	--	--	--	1	--	--	--	--	--	--	--	--
75C	74NDR+67.39	25.50 RT	754.14	--	744.57	--	--	--	1	--	--	--	--	--	--	--	--
75D	74NDR+46.82	69.89 RT	748.94	--	745.57	--	--	--	1	--	--	--	--	--	--	--	--
77	77NDR+40.85	6.00 LT	752.09	--	740.91	--	--	--	--	--	1	--	--	--	--	--	--
77A	77NDR+23.09	25.50 LT	752.08	--	747.00	--	--	--	1	--	--	--	--	--	--	--	--
77B	77NDR+41.05	25.50 RT	752.06	--	747.00	--	--	--	1	--	--	--	--	--	--	--	--
EW77	77SDR+25.34	11.67 LT	0.00	--	750.59	--	--	--	--	--	--	--	--	--	--	--	--
79	79NDR+48.20	6.00 LT	750.45	--	739.00	--	--	--	--	--	--	1	--	--	--	--	--
79A	79SDR+30.47	25.50 LT	750.46	--	745.50	--	--	--	1	--	--	--	--	--	--	--	--
79B	79NDR+46.82	25.50 RT	750.51	--	740.12	--	--	--	1	--	--	--	--	--	--	--	--
79D	80NDR+50.63	67.01 RT	745.00	--	741.35	--	--	--	1	--	--	--	--	--	--	--	--
79C	79NDR+05.99	65.08 RT	747.98	--	740.27	--	--	--	1	--	--	--	--	--	--	--	--

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1024* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	522.1060 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH
79E	78NDR+13.16	64.05 RT	746.08	--	741.75	--	--	--	--	--	--	1	--	--	--
EW79	79NDR+36.55	11.47 LT	0.00	--	748.97	1	--	--	--	--	--	--	--	--	--
EW3	79NDR+08.45	71.03 RT	0.00	--	740.40	--	--	--	--	1	--	--	--	--	--
81	81NDR+53.34	6.00 LT	748.85	--	738.10	--	--	--	--	--	--	1	--	--	--
81A	81NDR+47.39	25.50 LT	748.76	--	744.00	--	--	--	--	--	--	--	--	1	--
81B	81NDR+53.35	25.50 RT	748.87	--	744.00	--	--	--	--	--	--	--	--	1	--
EW81	81NDR+40.08	11.38 LT	0.00	--	747.40	1	--	--	--	--	--	--	--	--	--
82	82NDR+36.45	6.00 LT	748.20	--	737.75	--	--	--	--	--	--	1	--	--	--
82A	82SDR+31.22	25.50 LT	748.07	--	743.00	--	--	--	--	--	--	--	--	1	--
82B	82NDR+37.43	25.50 RT	748.20	--	738.69	--	--	--	--	--	--	--	--	1	--
EW4	82NDR+39.88	66.83 RT	0.00	--	739.00	--	--	--	--	1	--	--	--	--	--
84	83NDR+63.30	1.67 LT	746.75	--	737.21	--	--	--	--	--	--	--	--	1	--
84A	83SDR+58.19	25.50 LT	746.69	--	742.00	--	--	--	--	--	--	--	--	1	--
84B	83NDR+54.26	25.50 RT	746.97	--	739.79	--	--	--	--	--	--	--	--	1	--
84C	83NDR+44.18	52.00 RT	746.16	--	739.87	--	--	--	--	--	--	1	--	--	--
EW84	83NDR+51.95	9.08 LT	0.00	--	745.79	1	--	--	--	--	--	--	--	--	--
85	85NDR+55.48	17.04 LT	744.96	--	736.37	--	--	--	--	--	--	--	--	1	--
86A	85SDR+50.00	1.50 RT	745.04	--	740.00	--	--	--	--	--	--	--	--	1	--
86B	85SDR+50.00	25.50 LT	745.04	--	740.20	--	--	--	--	--	--	--	--	1	--
86C	85NDR+54.95	28.49 RT	745.21	--	740.20	--	--	--	--	--	--	--	--	1	--
87	86SDR+75.92	25.50 LT	744.06	--	735.81	--	--	--	--	--	--	--	--	1	--
87A	86SDR+68.00	1.50 RT	744.12	--	739.18	--	--	--	--	--	--	--	--	1	--
87B	86SDR+67.98	10.50 RT	743.89	--	739.21	--	--	--	--	--	--	--	--	1	--
87C	86NDR+72.88	37.50 RT	744.13	--	739.50	--	--	--	--	--	--	--	--	1	--
88A	87SDR+89.49	28.71 LT	743.12	--	734.25	--	--	--	--	--	--	--	--	1	--
88B	87SDR+88.77	1.50 RT	743.19	--	736.86	--	--	--	--	--	--	--	--	1	--
88C	87SDR+88.81	10.50 RT	742.96	--	736.88	--	--	--	--	--	--	--	--	1	--
88D	87NDR+93.85	10.50 LT	743.20	--	736.93	--	--	--	--	--	--	--	--	--	1
88E	87NDR+93.88	1.50 LT	743.43	--	736.95	--	--	--	--	--	--	--	--	--	1
88F	87NDR+94.02	37.50 RT	743.19	--	737.10	--	--	--	--	--	--	--	--	1	--
88	88SDR+24.93	32.34 LT	742.80	--	734.13	--	--	--	--	--	--	--	--	1	--
EW6	87NDR+99.66	73.75 RT	0.00	--	737.25	--	--	--	1	--	--	--	--	--	--
EW7	88SDR+16.42	69.68 LT	0.00	--	739.58	--	1	--	--	--	--	--	--	--	--
EW5	89SDR+18.81	106.35 LT	0.00	--	733.00	--	--	--	--	--	1	--	--	--	--
STAGE 2 SUBTOTAL						11	1	1	2	2	1	30	--	62	4
PROJECT 2704-00-75 TOTAL						17	3	5	2	2	1	39	1	106	8

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	611.0627 INLET COVERS TYPE HS EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.013 MANHOLES 2-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 8-FT DIAMETER EACH	SPV.0060.014 MANHOLES 9-FT DIAMETER EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.9800.S PIPE GRATES EACH	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	633.5200* MARKERS CULVERT END EACH
79E	78NDR+13.16	64.05 RT	746.08	--	741.75	--	--	--	1	--	--	--	--	--	--	--	--
EW79	79NDR+36.55	11.47 LT	0.00	--	748.97	--	--	--	--	--	--	--	--	--	--	--	--
EW3	79NDR+08.45	71.03 RT	0.00	--	740.40	--	--	--	--	--	--	--	--	--	1	--	--
81	81NDR+53.34	6.00 LT	748.85	--	738.10	--	--	--	--	--	--	1	--	--	--	--	--
81A	81NDR+47.39	25.50 LT	748.76	--	744.00	--	--	--	1	--	--	--	--	--	--	--	--
81B	81NDR+53.35	25.50 RT	748.87	--	744.00	--	--	--	1	--	--	--	--	--	--	--	--
EW81	81NDR+40.08	11.38 LT	0.00	--	747.40	--	--	--	--	--	--	--	--	--	--	--	--
82	82NDR+36.45	6.00 LT	748.20	--	737.75	--	--	--	--	--	--	1	--	--	--	--	--
82A	82SDR+31.22	25.50 LT	748.07	--	743.00	--	--	--	1	--	--	--	--	--	--	--	--
82B	82NDR+37.43	25.50 RT	748.20	--	738.69	--	--	--	--	--	1	--	--	--	--	--	--
EW4	82NDR+39.88	66.83 RT	0.00	--	739.00	--	--	--	--	--	--	--	--	--	1	--	1
84	83NDR+63.30	1.67 LT	746.75	--	737.21	--	--	--	--	--	--	1	--	--	--	--	--
84A	83SDR+58.19	25.50 LT	746.69	--	742.00	--	--	--	1	--	--	--	--	--	--	--	--
84B	83NDR+54.26	25.50 RT	746.97	--	739.79	--	--	--	1	--	--	--	--	--	--	--	--
84C	83NDR+44.18	52.00 RT	746.16	--	739.87	--	--	--	1	--	--	--	--	--	--	--	--
EW84	83NDR+51.95	9.08 LT	0.00	--	745.79	--	--	--	--	--	--	--	--	--	--	--	--
85	85NDR+55.48	17.04 LT	744.96	--	736.37	--	--	--	--	--	--	1	--	--	--	--	--
86A	85SDR+50.00	1.50 RT	745.04	--	740.00	--	--	--	1	--	--	--	--	--	--	--	--
86B	85SDR+50.00	25.50 LT	745.04	--	740.20	--	--	--	1	--	--	--	--	--	--	--	--
86C	85NDR+54.95	28.49 RT	745.21	--	740.20	--	--	--	1	--	--	--	--	--	--	--	--
87	86SDR+75.92	25.50 LT	744.06	--	735.81	--	--	--	--	--	--	1	--	--	--	--	--
87A	86SDR+68.00	1.50 RT	744.12	--	739.18	--	--	--	1	--	--	--	--	--	--	--	--
87B	86SDR+67.98	10.50 RT	743.89	--	739.21	--	--	--	1	--	--	--	--	--	--	--	--
87C	86NDR+72.88	37.50 RT	744.13	--	739.50	--	--	--	1	--	--	--	--	--	--	--	--
88A	87SDR+89.49	28.71 LT	743.12	--	734.25	--	--	--	--	--	--	1	--	--	--	--	--
88B	87SDR+88.77	1.50 RT	743.19	--	736.86	--	--	--	1	--	--	--	--	--	--	--	--
88C	87SDR+88.81	10.50 RT	742.96	--	736.88	--	--	--	1	--	--	--	--	--	--	--	--
88D	87NDR+93.85	10.50 LT	743.20	--	736.93	--	--	--	--	--	--	--	--	--	--	--	--
88E	87NDR+93.88	1.50 LT	743.43	--	736.95	--	--	--	1	--	--	--	--	--	--	--	--
88F	87NDR+94.02	37.50 RT	743.19	--	737.10	--	--	--	--	1	--	--	--	--	--	--	--
88	88SDR+24.93	32.34 LT	742.80	--	734.13	--	--	--	--	--	--	--	1	--	--	--	--
EW6	87NDR+99.66	73.75 RT	0.00	--	737.25	--	--	--	--	--	--	--	--	--	1	--	1
EW7	88SDR+16.42	69.68 LT	0.00	--	739.58	--	--	--	--	--	--	--	--	--	1	--	1
EW5	89SDR+18.81	106.35 LT	0.00	--	733.00	--	--	--	--	--	--	--	--	--	1	--	1
STAGE 2 SUBTOTAL						--	2	5	69	1	12	7	1	1	7	--	6
PROJECT 2704-00-75 TOTAL						4	2	5	123	7	13	7	2	1	13	1	12

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

3

PIPE UNDERDRAIN

ROADWAY	STRUCTURE NUMBER	STATION	OFFSET	SPV.0090.002 PIPE UNDERDRAIN 6-INCH SPECIAL LF
STAGE 1				
INTERNATIONAL DRIVE	52	51NDR+84.95	27.64 RT	50
	52A	51NDR+85.00	1.50 LT	50
	52B	51NDR+85.02	10.50 LT	50
	52E	51SDR+85.14	37.50 LT	50
STAGE 1 SUBTOTAL				200
STAGE 2				
INTERNATIONAL DRIVE	91A	91NDR+06.58	25.50 RT	50
	93E	91NDR+26.03	25.50 RT	50
	91B	91NDR+07.08	1.50 LT	50
	91S	91NDR+50.70	1.50 LT	50
	91Q	90SDR+79.93	24.33 RT	50
	93G	91NDR+26.39	14.06 LT	50
	91M	90SDR+70.00	35.46 LT	50
	93H	91SDR+25.96	28.76 LT	50
	110E	110NDR+50.46	25.50 RT	50
	110J	110NDR+96.16	25.50 RT	50
	110H	110NDR+79.15	1.50 LT	50
	110M	110NDR+67.63	1.50 LT	50
	110L	110SDR+68.63	1.50 RT	50
	110G	110SDR+81.60	1.50 RT	50
	110C	110SDR+69.62	25.50 LT	50
	110D	110SDR+83.25	25.50 LT	50
STAGE 2 SUBTOTAL				800
UNDISTRIBUTED				300
PROJECT 2704-00-75 TOTAL				1,300

CULVERT PIPE ITEMS

ROADWAY	INLET END STATION	INLET END OFFSET		INLET END ELEVATION	DISCHARGE END STATION	DISCHARGE END OFFSET		DISCHARGE END ELEVATION	SLOPE	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0512 CULVERT PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	522.0524 CULVERT PIPE REINFORCED CONCRETE CLASS V 24-INCH LF	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1024* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	633.5200* MARKERS CULVERT END EACH
STAGE 1															
INTERNATIONAL DRIVE SB	99SDR+50.23	132.09	LT	732.00	100SDR+66.40	199.69	LT	731.61	0.30%	131	--	--	--	2	2
STAGE 1 SUBTOTAL										131	--	--	--	2	2
STAGE 2															
INTERNATIONAL DRIVE NB	51NDR+00.32	66.84	RT	756.00	50SDR+73.45	71.04	LT	755.40	0.34%	--	--	176	--	2	2
	51NDR+60.04	59.18	RT	755.69	51SDR+43.70	67.85	LT	754.79	0.55%	--	--	164	--	2	2
	74NDR+95.23	76.58	RT	747.30	75NDR+51.00	77.84	RT	747.00	0.54%	--	--	56	--	2	2
LOUIS SORENSON ROAD	27LS+13.79	30.53	RT	738.98	27LS+43.93	31.09	RT	738.59	1.30%	--	30	--	2	--	2
STAGE 2 SUBTOTAL										--	30	396	2	6	8
PROJECT 2704-00-75 TOTALS										131	30	396	2	8	10

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

POND LINER CLAY

ROADWAY	POND	STATION	OFFSET	640.1303.S POND LINER CLAY CY
STAGE 1				
INTERNATIONAL DRIVE	POND H	94NDR+80	136.36'LT	5,703
STAGE 1 SUBTOTAL				5,703
PROJECT 2704-00-75 TOTAL				5,703

SEALING PIPES

ROADWAY	STATION	OFFSET	204.0280 SEALING PIPES EACH
STAGE 1			
LOUIS SORENSON ROAD	25LS+49.10	17.71' LT	1
STAGE 1 SUBTOTAL			1
PROJECT 2704-00-75 TOTAL			1

LIGHTING AND MISCELLANEOUS - FINAL

CATEGORY	DESCRIPTION	LOCATION	653.0135* PULL BOXES STEEL 24x36- INCH EACH	654.0105 CONCRETE BASES TYPE 5 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (NOTE 1) EACH	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	REMARKS
5000	IL-1	STA. 58NDR+45.85, 13.68' LT	--	1	1	--	BASE ONLY
	IL-2	STA. 60NDR+63.12, 13.83' LT	--	1	1	--	BASE ONLY
	IL-3	STA. 62NDR+82.12, 13.91' LT	--	1	1	--	BASE ONLY
	IL-4	STA. 65NDR+02.68, 12.83' LT	--	1	1	--	BASE ONLY
	IL-5	STA. 67NDR+20.64, 13.97' LT	--	1	1	--	BASE ONLY
	IL-6	STA. 69NDR+36.33, 12.88' LT	--	1	1	--	BASE ONLY
	IL-7	STA. 71NDR+50.84, 12.66' LT	--	1	1	--	BASE ONLY
	IL-8	STA. 73NDR+62.91, 11.41' LT	--	1	1	--	BASE ONLY
	IL-9	STA. 75NDR+80.88, 12.91' LT	--	1	1	--	BASE ONLY
	IL-10	STA. 77NDR+82.20, 11.88' LT	--	1	1	--	BASE ONLY
	IL-11	STA. 79NDR+91.52, 11.00' LT	--	1	1	--	BASE ONLY
	IL-12	STA. 81NDR+99.18, 11.69' LT	--	1	1	--	BASE ONLY
	IL-13	STA. 84NDR+10.68, 17.00' LT	--	1	1	--	BASE ONLY
	IL-14	STA. 86NDR+20.72, 28.29' LT	--	1	1	--	BASE ONLY
	IL-15	STA. 88NDR+05.78, 30.64' LT	--	1	1	--	BASE ONLY
	PB-IL4	STA. 88NDR+06.90, 70.94' LT	1	--	--	--	
	IL-16	STA. 88NDR+42.41, 103.99' LT	--	1	1	--	BASE ONLY
	PB-IL1	STA. 88NDR+36.68, 67.76' RT	1	--	--	--	
	IL-17	STA. 88NDR+80.40, 69.95' RT	--	1	1	--	BASE ONLY
	PB-IL2	STA. 88NDR+99.71, 63.17' RT	1	--	--	--	
	LCC-IL	STA. 89NDR+12.91, 49.66' RT	--	--	--	1	L30 BASE ONLY
	PB-IL3	STA. 89NDR+21.69, 34.48' RT	1	--	--	--	
	IL-18	STA. 89NDR+27.07, 5.54' LT	--	1	1	--	BASE ONLY
	IL-19	STA. 91NDR+36.20, 7.67' LT	--	1	1	--	BASE ONLY
	IL-20	STA. 93NDR+53.11, 11.00' LT	--	1	1	--	BASE ONLY
	IL-21	STA. 95NDR+70.81, 12.65' LT	--	1	1	--	BASE ONLY
	IL-22	STA. 97NDR+91.16, 11.29' LT	--	1	1	--	BASE ONLY
	IL-23	STA. 100NDR+10.05, 11.94' LT	--	1	1	--	BASE ONLY
	IL-24	STA. 102NDR+30.39, 10.89' LT	--	1	1	--	BASE ONLY
	IL-25	STA. 104NDR+49.41, 11.83' LT	--	1	1	--	BASE ONLY
	IL-26	STA. 106NDR+68.64, 12.72' LT	--	1	1	--	BASE ONLY
	IL-27	STA. 108NDR+86.35, 11.91' LT	--	1	1	--	BASE ONLY
	IL-28	STA. 111NDR+04.94, 13.44' LT	--	1	1	--	BASE ONLY
5000		TOTAL	4	28	28	1	

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE

1. 1/8" ALUMINUM OR STEEL PLATE TO COVER THE TOP OPENING OF THE TRANSFORMER BASE. COVER TO BE BOLTED DOWN. COVER TO PREVENT WATER FROM ENTERING TRANSFORMER BASE. COST OF COVER IS INCIDENTAL TO THE COST OF THE TRANSFORMER BASE.
2. LCC = LIGHTING CONTROL CABINET. ONLY CONCRETE BASE IS PROVIDED UNDER THIS CONTRACT. THE CABINET AND ELECTRICAL SERVICE ARE NOT PROVIDED UNDER THIS CONTRACT.

3

LIGHTING - CONDUIT - FINAL

CATEGORY	FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 -INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 -INCH LF	REMARKS
5000	IL-1	IL-2	229	--	PULL ROPE ONLY - NO WIRING
	IL-2	IL-3	227	--	PULL ROPE ONLY - NO WIRING
	IL-3	IL-4	227	--	PULL ROPE ONLY - NO WIRING
	IL-4	IL-5	225	--	PULL ROPE ONLY - NO WIRING
	IL-5	IL-6	225	--	PULL ROPE ONLY - NO WIRING
	IL-6	IL-7	227	--	PULL ROPE ONLY - NO WIRING
	IL-7	IL-8	225	--	PULL ROPE ONLY - NO WIRING
	IL-8	IL-9	222	--	PULL ROPE ONLY - NO WIRING
	IL-9	IL-10	228	--	PULL ROPE ONLY - NO WIRING
	IL-10	IL-11	223	--	PULL ROPE ONLY - NO WIRING
	IL-11	IL-12	221	--	PULL ROPE ONLY - NO WIRING
	IL-12	IL-13	227	--	PULL ROPE ONLY - NO WIRING
	IL-13	IL-14	215	--	PULL ROPE ONLY - NO WIRING
	IL-14	IL-15	191	--	PULL ROPE ONLY - NO WIRING
	IL-15	PB-IL4	--	48	PULL ROPE ONLY - NO WIRING
	PB-IL4	IL-16	50	--	PULL ROPE ONLY - NO WIRING
	IL-16	STUB	10	--	PULL ROPE ONLY - NO WIRING, CAP END
	IL-15	PB-IL1	--	103	PULL ROPE ONLY - NO WIRING
	PB-IL1	PB-IL2	--	80	PULL ROPE ONLY - NO WIRING
	PB-IL2	IL-17	23	--	PULL ROPE ONLY - NO WIRING
	PB-IL2	LCC-IL	--	27	PULL ROPE ONLY - NO WIRING
	LCC-IL	PB-IL3	--	20	PULL ROPE ONLY - NO WIRING
	PB-IL3	IL-18	--	45	PULL ROPE ONLY - NO WIRING
	IL-18	IL-19	225	--	PULL ROPE ONLY - NO WIRING
	IL-19	IL-20	227	--	PULL ROPE ONLY - NO WIRING
	IL-20	IL-21	229	--	PULL ROPE ONLY - NO WIRING
	IL-21	IL-22	233	--	PULL ROPE ONLY - NO WIRING
	IL-22	IL-23	234	--	PULL ROPE ONLY - NO WIRING
	IL-23	IL-24	235	--	PULL ROPE ONLY - NO WIRING
	IL-24	IL-25	232	--	PULL ROPE ONLY - NO WIRING
	IL-25	IL-26	232	--	PULL ROPE ONLY - NO WIRING
	IL-26	IL-27	229	--	PULL ROPE ONLY - NO WIRING
	IL-27	IL-28	232	--	PULL ROPE ONLY - NO WIRING
	IL-28	STUB	77	--	PULL ROPE ONLY - NO WIRING, CAP END
5000		TOTAL	5580	323	

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 11 & INTERNATIONAL DRIVE

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF
PB1	SB1	168
SB1	SB2	201
SB2	SB3	205
	TOTAL	574

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH
PB1	50NDR+61.8	6.0' LT	1
		TOTALS	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0105* CONCRETE BASES TYPE 5 EACH
SB1	52NDR+30.2	6.0' LT	1
SB2	54NDR+30.2	11.5' LT	1
SB3	56NDR+30.2	15.8' LT	1
		TOTALS	3

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CAST BASES

SIGNAL BASE NO.	657.0255* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE EACH
SB1	1
SB2	1
SB3	1
TOTALS	3

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE: PROVIDE A 1/8-INCH ALUMINUM OR STEEL PLATE TO COVER THE TOP OPENING OF THE TRANSFORMER BASE. COVER SHALL BE BOLTED TO TRANSFORMER BASE TO PREVENT WATER FROM ENTERING THE TRAFFIC SIGNAL INFRASTRUCTURE. THE COST OF THE COVER AND HARDWARE IS INCIDENTAL TO THE COST OF THE TRANSFORMER BASE.

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\030241_mq_sp.pdf
PLOT DATE : 4/12/2018 5:07:28 PM PLOT BY : HNTB PLOT NAME : 030241_mq_sp1 PLOT SCALE : 1:1

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
MP040218		
CONSTRUCTION PROJECT NUMBER 2704-00-75	4.00	5

PLAT OF RIGHT OF WAY REQUIRED FOR

INTERNATIONAL DRIVE

STH 11 TO NATIONS DRIVE

INTERNATIONAL DRIVE — RACINE COUNTY

4-23-2018

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	PUBLIC ROAD ACCESS POINT	PRAP
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY NUMBER	NGS NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

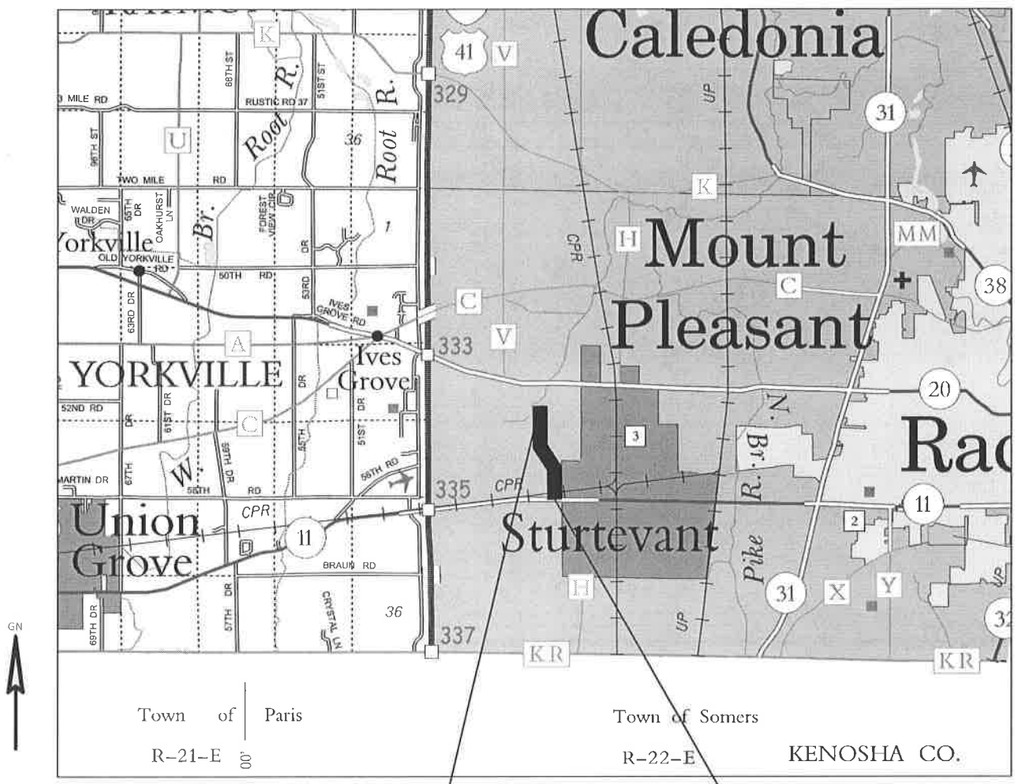
SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
ELECTRIC POLE
TELEPHONE POLE
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

COMPENSABLE — NON-COMPENSABLE

CONVENTIONAL UTILITY SYMBOLS

W WATER
G GAS
T TELEPHONE
OH OVERHEAD TRANSMISSION LINES
E ELECTRIC
CATV CABLE TELEVISION
FO FIBER OPTIC
SAN SANITARY SEWER
STM STORM SEWER



END RELOCATION ORDER
615.99 FEET NORTH AND
35.70 FEET EAST OF
THE NORTHWEST CORNER
OF SEC. 20 T3N R22E
STA 565+00.00

BEGIN RELOCATION ORDER
258.66 FEET SOUTH AND
1398.19 FEET WEST OF
THE SOUTHWEST CORNER
OF SEC. 20 T3N R22E
STA 498+89.99

LAYOUT SCALE 0 0.50 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH RIGHT OF WAY PLAT FOR PROJECT WP091517.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83(97), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

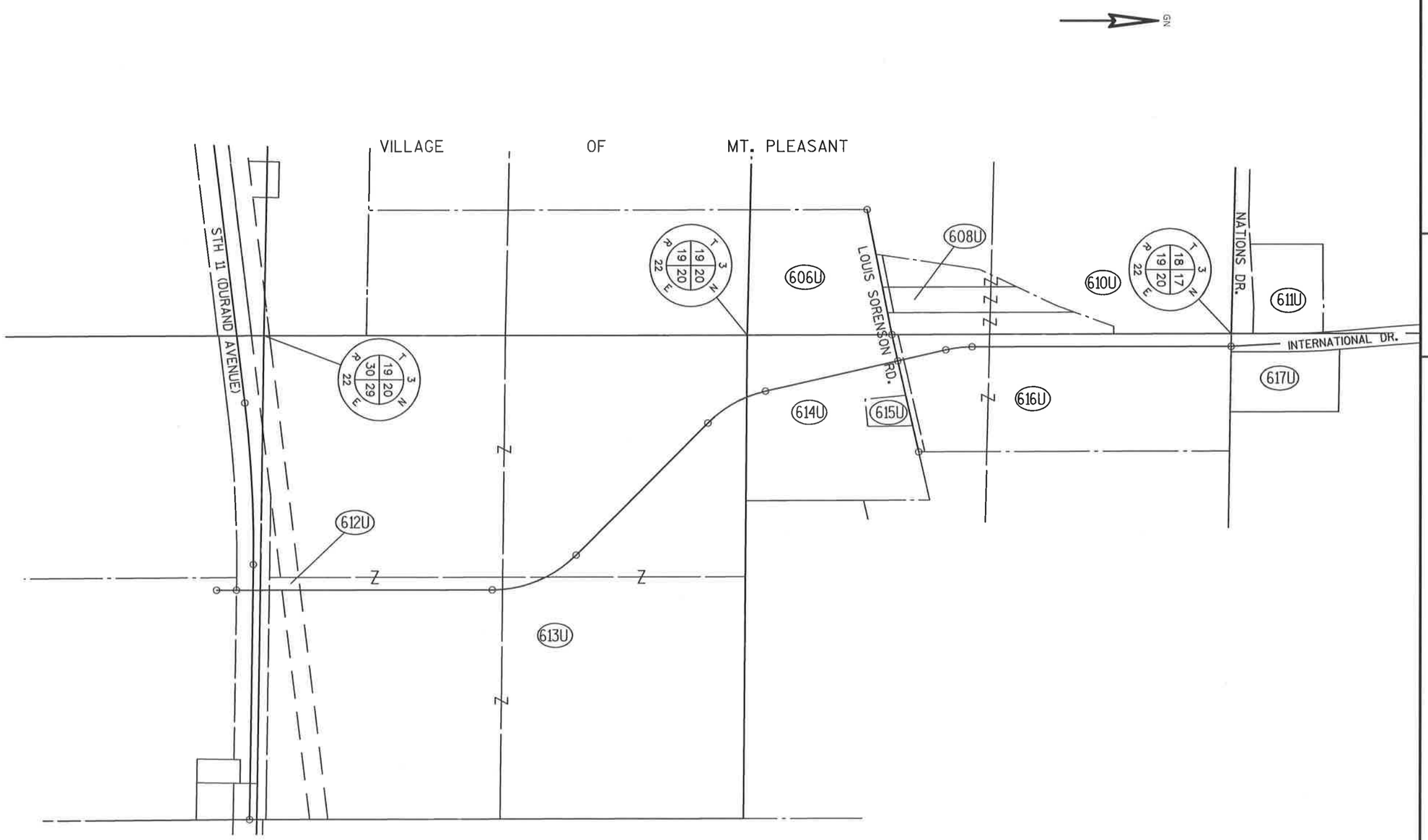
PARCEL IDENTIFICATION NUMBERS WAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG INTERNATIONAL DRIVE HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT MOUNT PLEASANT PROJ. WP091517.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: MOUNT PLEASANT PROJ. WP091517, SS 82.31(2), WISDOT PROJ. 1320-03-20, DOCS 2180505 & 2176598.

REVISION DATE:	VILLAGE OF MOUNT PLEASANT
	APPROVED BY:
	DATE:_____

FILE NAME : I:\TADI\17082 PROJECT FLYING EAGLE\060 CAD\V - SURVEY\020 SURVEY DELIVERABLES (ALTA, CSM, PLAT TEXT)\RW PLATS\TRADITIONAL FORMAT\INTERNATIONAL SECOND PLAT\INTERNATIONAL PLAT.DWG PLOT DATE : 10/30/2017
LAYOUT NAME: TPP Title
PLOT BY : PLOT NAME : APPRAISAL PLAT DATE :



4

REVISION DATE	DATE 4/23/2018	SCALE, FEET 0 250 500	HWY: INTERNATIONAL DRIVE	STATE R/W PROJECT NUMBER MP040218	PLAT SHEET 4. 01
	GRID FACTOR N/A		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-75	PS&E SHEET 191 E

FILE NAME : INTERNATIONAL 2 LAYOU~ SHEET.DWG
LAYOUT NAME - INTERNATIONAL layout
PLOT DATE : 4/23/2018 3:35 PM PLOT BY : PLOT NAME : PLOT SCALE : 1" = 1000.00 FT

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	PARCEL AREA ACRES	T.L.E. AREA REQUIRED ACRES	P.L.E. AREA REQUIRED ACRES	R/W AREA REQUIRED NEW ACRES	R/W AREA REQUIRED EXISTING ACRES	R/W AREA REQUIRED TOTAL ACRES	PARCEL NUMBER
606U	4.04	PETER ZENNER FAMILY FARM LLC	FEE	44.247	--	--	0.069	0.530	0.599	606U
608U	4.04	STEVEN J AND CINDY R KIRK	FEE	2.805	--	--	0.049	0.108	0.157	608U
610U	4.04	AUDREY L SCHAEFER FAMILY, LLC	PLE, TLE	68.34	0.150	0.607	--	--	--	610U
611U	4.04	MT PL INDUSTRIAL LLC, ET. AL.	FEE	4.370	--	--	0.134	--	0.134	611U
612U	4.03	SOO LINE RAIL ROAD	HE	9.213 & 8.334	--	--	0.228 (HE)	--	0.228 (HE)	612U
613U	4.03	PETER ZENNER FAMILY FARM LLC	FEE, PLE, TLE	139.1	4.798	2.621	1.053	--	1.053	613U
614U	4.04	PETER ZENNER FAMILY FARM LLC	FEE, PLE, TLE	14.85	1.253	0.777	0.409	--	0.409	614U
615U	4.04	SHIRLEY A ZENNER TRUST	FEE	0.858	--	--	0.059	0.128	0.187	615U
616U	4.04	DAVID P & GLORIA A ZENNER TRUST	FEE, PLE	16.181	--	0.025	0.071	0.292	0.363	616U
617U	4.04	MOUNT PLEASANT VILLAGE OF	FEE, PLE, TLE	4.344	0.188	0.169	0.087	--	0.087	617U

4

REVISED:	DATE: 4/23/2018		HWY: INTERNATIONAL DRIVE	R/W PROJECT NO. MP040218	PLAT SHEET NO: 4.02	
			COUNTY: RACINE	CONSTRUCTION PROJECT NO. 2704-00-75	192	E

FILE NAME : $$....designfile....$$ PLOT DATE: 4/23/2018 PLOT BY : ----- PLOT NAME : ----- PLOT SCALE: 1

4

4

SECTION LINE

N83° 05' 14"E 305

PC: 305+85.20

Y = 175602.26
X = 599267.79
CONC. MON. W/
BRASS CAP

PI STA = 310+24.49
DELTA = 7°40'40"
D = 0°52'31"
T = 439.29'
L = 877.27'
R = 6546.59'
LC = 876.61'
LCB = N86° 55' 34"E
PC STA = 305+85.20
PT STA = 314+62.46

BEGIN RELOCATION
ORDER
258.66 FEET
SOUTH AND 1398.19
FEET WEST OF
THE SOUTHWEST
CORNER OF SEC.
20 T3N R22E
STA 498+89.99

NW 1/4-NW 1/4

NE 1/4-NW 1/4

STH 11 (DURAND AVENUE)

SECTION LINE

SOO LINE RAILROAD

612U

Y = 175566.81
X = 601922.90
CONC. MON. W/
BRASS CAP

SW 1/4-SW 1/4

SE 1/4-SW 1/4

PI STA = 516+72.73
DELTA = 45°00'00"
D = 8°48'53"
T = 269.24'
L = 510.51'
R = 650.00'
LC = 497.49'
LCB = N22° 36' 46"W
PC STA = 514+03.49
PT STA = 519+14.00

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 11	WISDOT PROJ. 1320-03-20	VARIES	2005
INTERNATIONAL DRIVE	MP091517	VARIES	2017

VILLAGE OF MT. PLEASANT

613U

PT: 314+62.46

1 AP PER PROJ. MP091517

BP: 498+89.99

65'

7.5'

94.5'

225.25'

454.99'

N89° 53' 14"E
22.50'

40' PLE FOR SANITARY SEWER
CONSTRUCTION, MAINTANACE,
DRAINAGE & SLOPES

PC: 514+03.49

L=575.31
R=732.28
LC = 560.63
N22° 36' 46"W

PT: 519+14.00

1/16 LINE

N0° 06' 46"W 290.05

N44° 40' 27"W 73.66

30.94'

99.70'

48.32'

S89° 14' 06"E

180'

99'

70.22'

99.70'

N0° 06' 46"W 72'

82.5'

SLOPE
INTERCEPT

1043.68'

N0° 06' 46"W 1156.77

N0° 06' 46"W 1162.35

70' TLE FOR SANITARY
SEWER CONSTRUCTION

1 AP PER PROJ. MP091517

ACCESS RESTRICTED
PER PROJ. MP091517

Y = 178253.63
X = 599264.58
CONC. MON. W/
BRASS CAP

PI STA = 531+24.97
DELTA = 32°12'56"
D = 8°48'53"
T = 187.71'
L = 365.48'
R = 650.00'
LC = 360.68'
LCB = N29° 00' 18"W
PC STA = 529+37.26
PT STA = 533+02.73

L=198.88
R=578.00
LC = 197.90
N35° 15' 19"W

L=168.99
R=542.00
LC = 168.30
N36° 10' 51"W

L=316.47
R=722.00
LC = 313.94
S32° 33' 21"E

PC: 529+37.26

N44° 53' 14"E
25.50'

198.91'

1 AP PER PROJ. MP091517

TLE FOR FIELD
ENTRANCE

N45° 06' 46"W 1023.26'

N45° 06' 46"W 1077.76'

N45° 06' 46"W 1081.78

NW 1/4-SW 1/4

NE 1/4-SW 1/4

1/4 SECTION LINE

N89° 38' 24"W 2651.37

262.49'

156.33'

REVISION DATE	DATE 4/23/2018	SCALE, FEET 0 100 200	HWY: INTERNATIONAL DRIVE	STATE R/W PROJECT NUMBER MP040218	PLAT SHEET 4.03	
	GRID FACTOR		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-75	PS&E SHEET	E

FILE NAME : INTERNATIONAL DRIVE 2 DETAIL SHEETS.DWG
LAYOUT NAME - 4.03 1 IN 200 FT

PLOT DATE : 4/23/2018 3:38 PM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

VILLAGE OF MT. PLEASANT

SE 1/4-NE 1/4

NE 1/4-NE 1/4

SE 1/4-SE 1/4

SW 1/4-NW 1/4

SW 1/4-SW 1/4

NW 1/4-NW 1/4

Y = 178253.63
X = 599264.58
CONC. MON. W/
BRASS CAP

Y = 180907.50
X = 599256.41
CONC. MON. W/
BRASS CAP

LOUIS SORENSEN ROAD

NATIONS DRIVE

INTERNATIONAL DRIVE

SECTION LINE

606U

608U

610U

611U

614U

615U

616U

617U

ACCESS RESTRICTED PER PROJ. MP091517

PLE FOR OUTFALL

PLE FOR CHANNEL IMPROVEMENTS

AP PER PROJ. MP091517

28'X37' PLE FOR OUTFALL

OUTLOT 2 MT PLEASANT INTERNATIONAL BUSINESS CENTER

SEE DETAIL BELOW

L=206.81
R=3450.00
LC = 206.77
S01° 50' 45"E

S4° 53' 58"E 388.04

N11° 12' 46"W 15.00'

758.18'

N57° 53' 50"W 90.81

L=89.49
R=722.00
LC = 89.43
S16° 26' 53"E

N0° 10' 35"W 2653.89

N0° 10' 35"W 550

S4° 22' 19"E 602.41

N3° 11' 18"W

547.18'

S77° 06' 10"W 25.50'

12.00'

N32° 06' 10"E 68.99

N12° 53' 50"W 710.50

82.5'

454.59'

554.79'

445.37'

192.13'

44.54'

S12° 53' 49"E 15.00

40' PLE FOR SANITARY SEWER CONSTRUCTION, MAINTANACE, DRAINAGE & SLOPES

70' TLE FOR SANITARY SEWER CONSTRUCTION

1 AP PER PROJ. MP091517

L=126.11
R=578.00
LC = 125.86
N19° 08' 51"W
N29° 00' 18"W 394.64

L=135.76
R=542.00
LC = 135.41
N20° 04' 23"W

N29° 00' 18"W 220.17

SLOPE INTERCEPT

1/16 LINE

PI STA = 543+82.00
DELTA = 12°43'15"
D = 8°48'53"
T = 72.45'
L = 144.31'
R = 650.00'
LC = 144.02'
LCB = N06° 32' 12"W
PC STA = 543+09.55
PT STA = 544+53.86

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
LOUIS SORENSEN ROAD	SS 82.31(2)	33'	
NATIONS DRIVE	MOUNT PLEASANT INTL. BUS. CENTER DOC. 2180505	VARIES	2008
INTERNATIONAL DRIVE	CSM 2908 DOC. 2176598	100'	2008
INTERNATIONAL DRIVE	MP091517	144'/242'	2017

END RELOCATION ORDER
615.99 FEET NORTH AND
35.70 FEET EAST OF
THE SOUTHWEST CORNER
OF SEC. 17 T3N R22E
STA 565+00.00

DETAIL

OUTLOT 2
CSM 2908
V 9 P 369

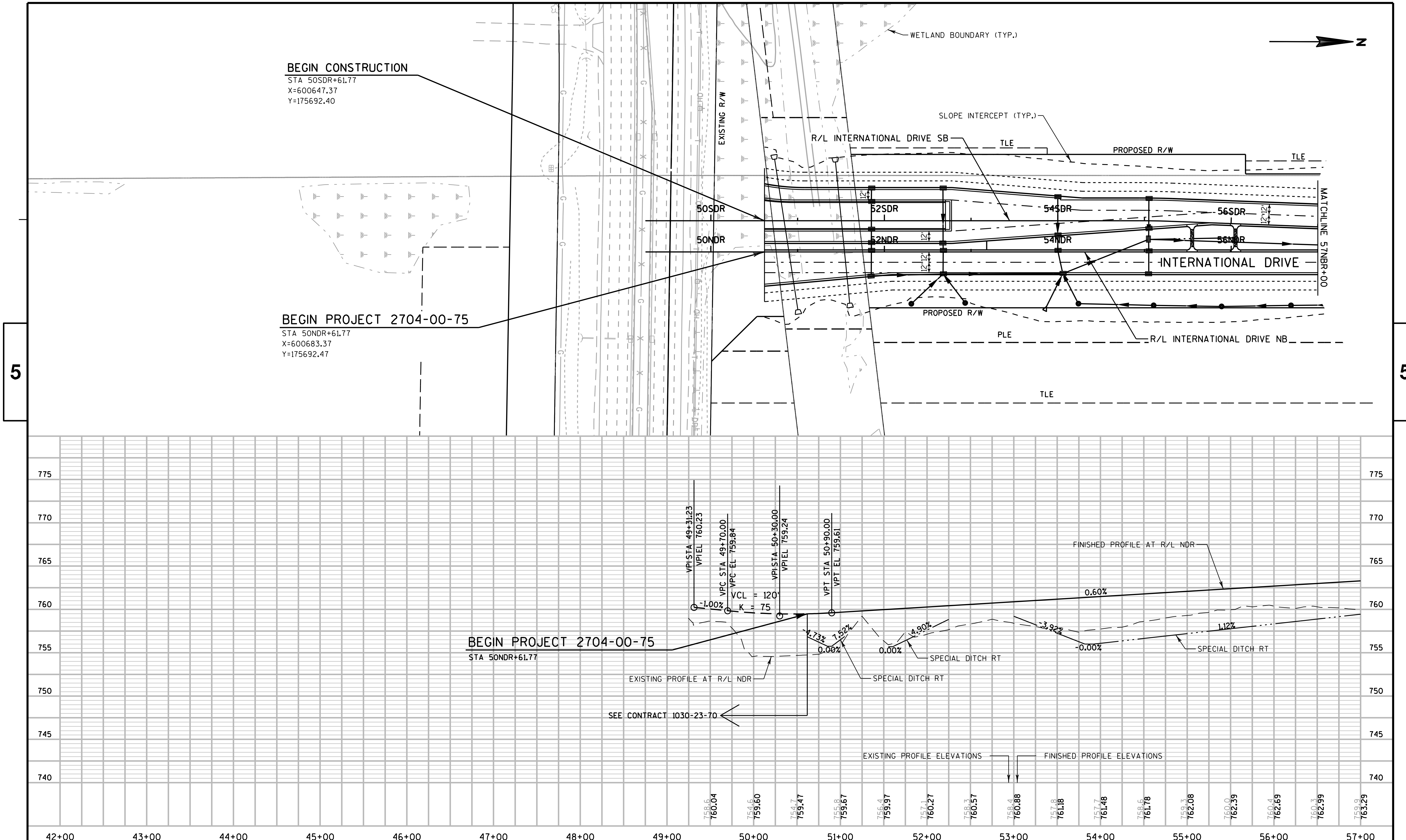
REVISION DATE	DATE 4/23/2018	SCALE, FEET 0 100 200	HWY: INTERNATIONAL DRIVE	STATE R/W PROJECT NUMBER MP040218	PLAT SHEET 4.04
	GRID FACTOR		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-75	PS&E SHEET 194 E

FILE NAME : INTERNATIONAL DRIVE 2 DETAIL SHEETS.DWG
LAYOUT NAME - 4.04 1 IN 200 FT

PLOT DATE : 4/23/2018 3:37 PM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

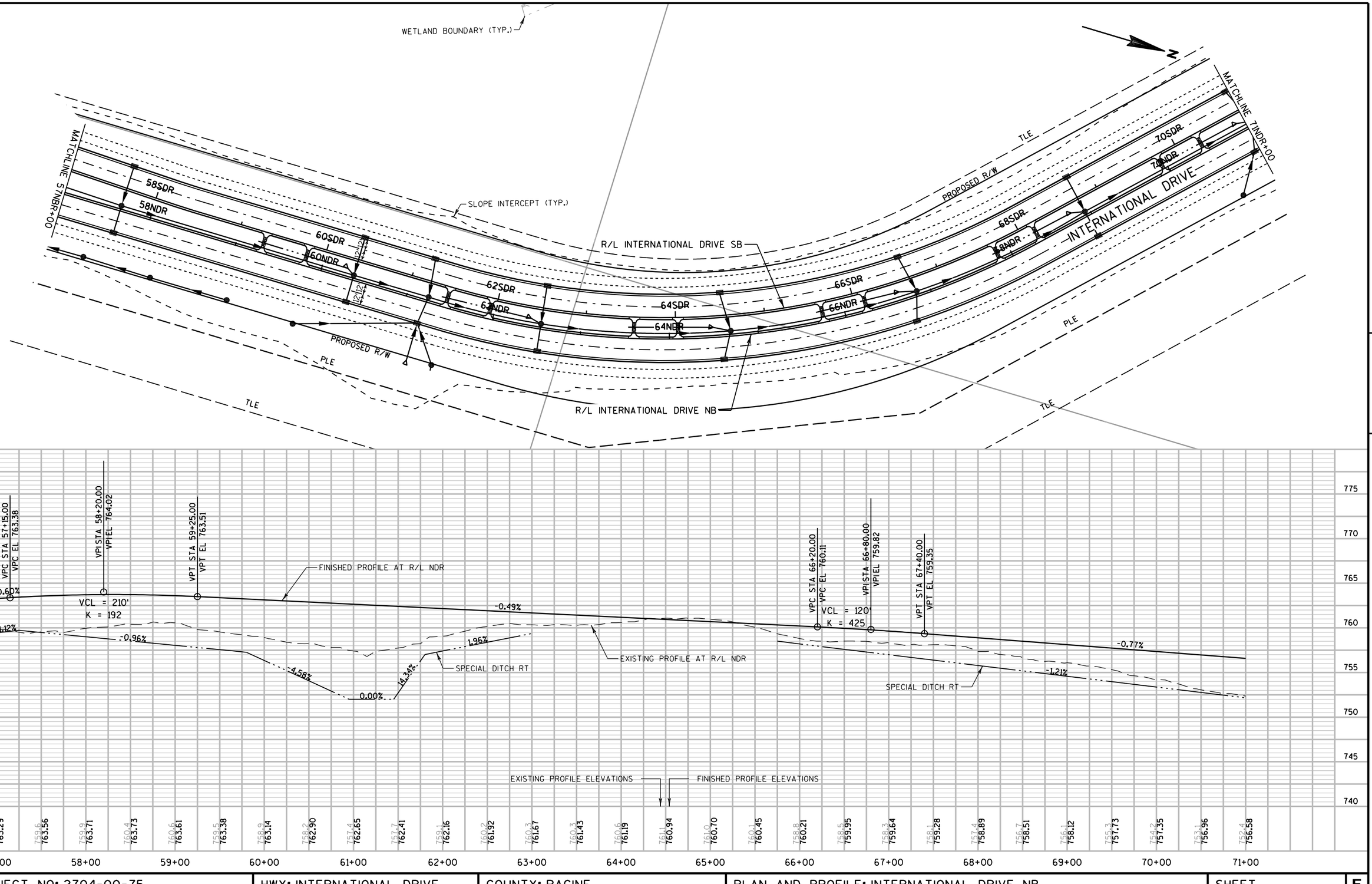
4



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE NB	SHEET 195	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\ds\050120pp.dgn PLOT DATE : 4/5/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

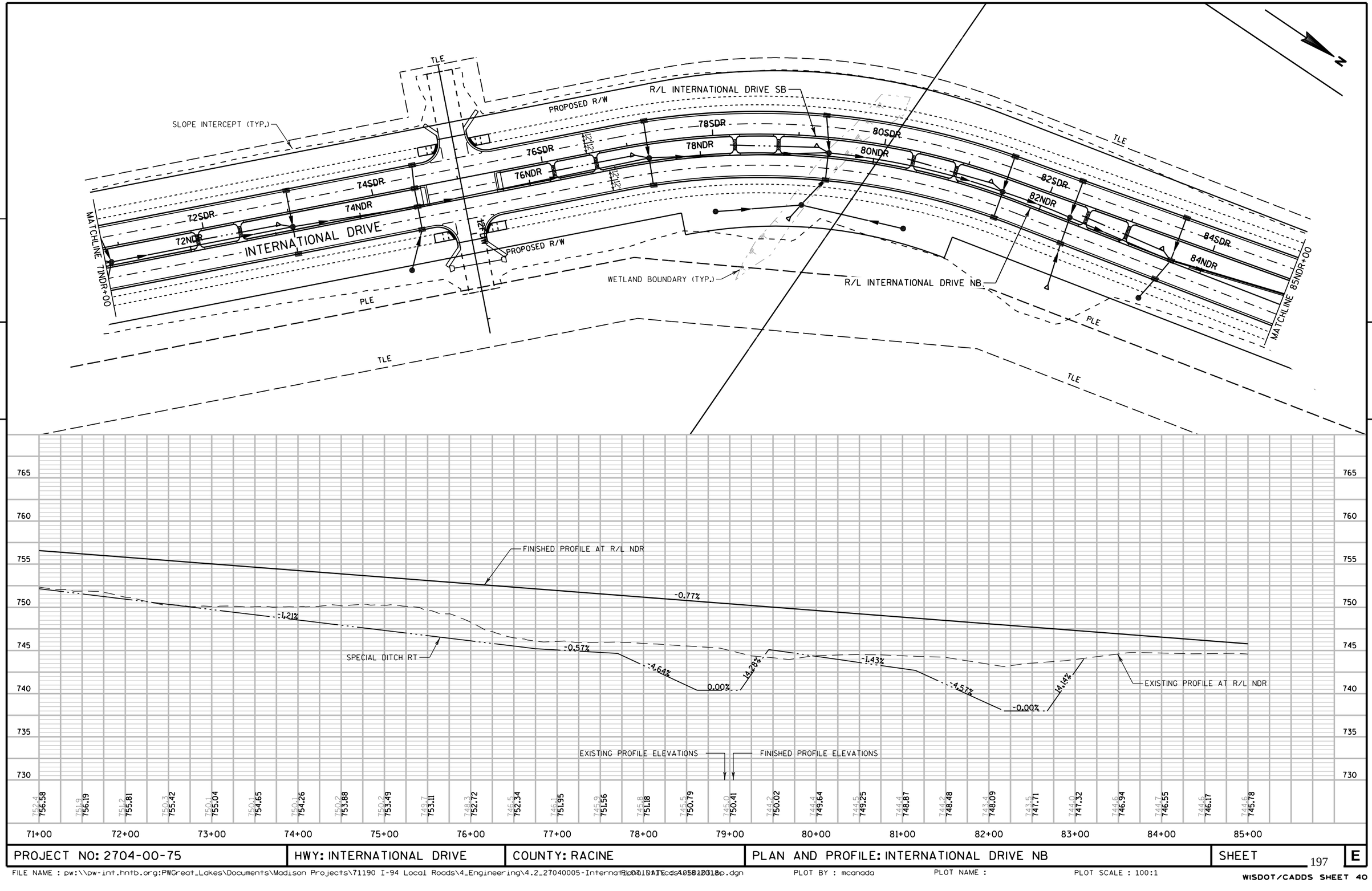
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE NB	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr Reconstruction\Cadd\Plan Sheets\27040005_PP_NB_Sheet_Plan_Profile_Sheet_Temp.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

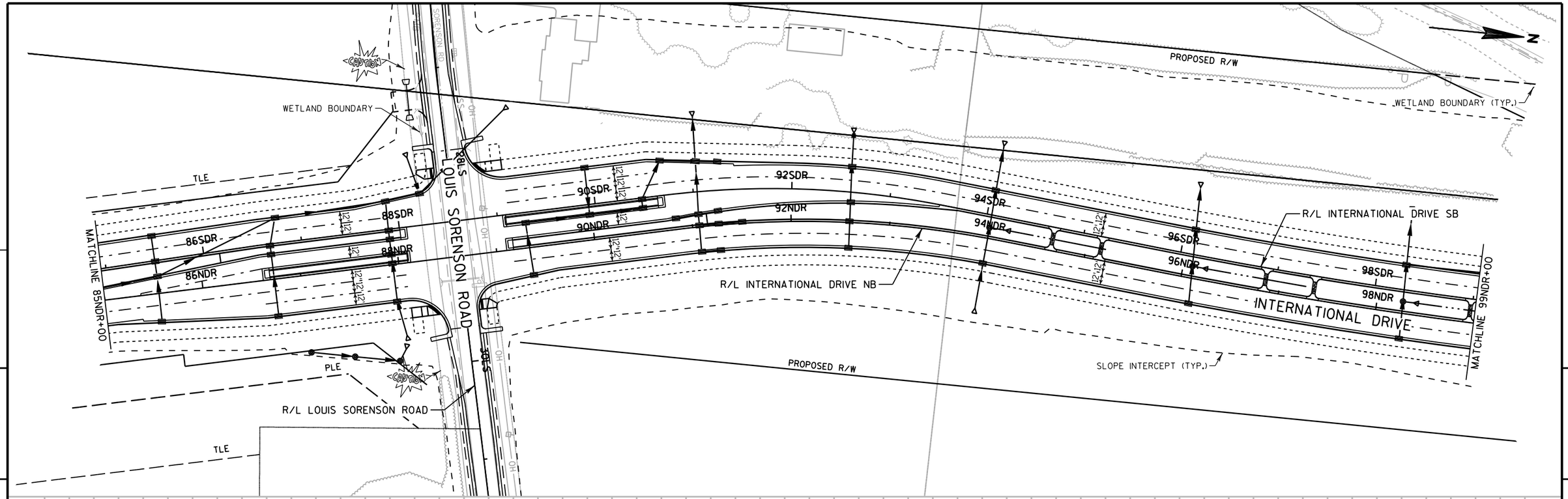
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE NB	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr\DATA\cds\405012018p.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

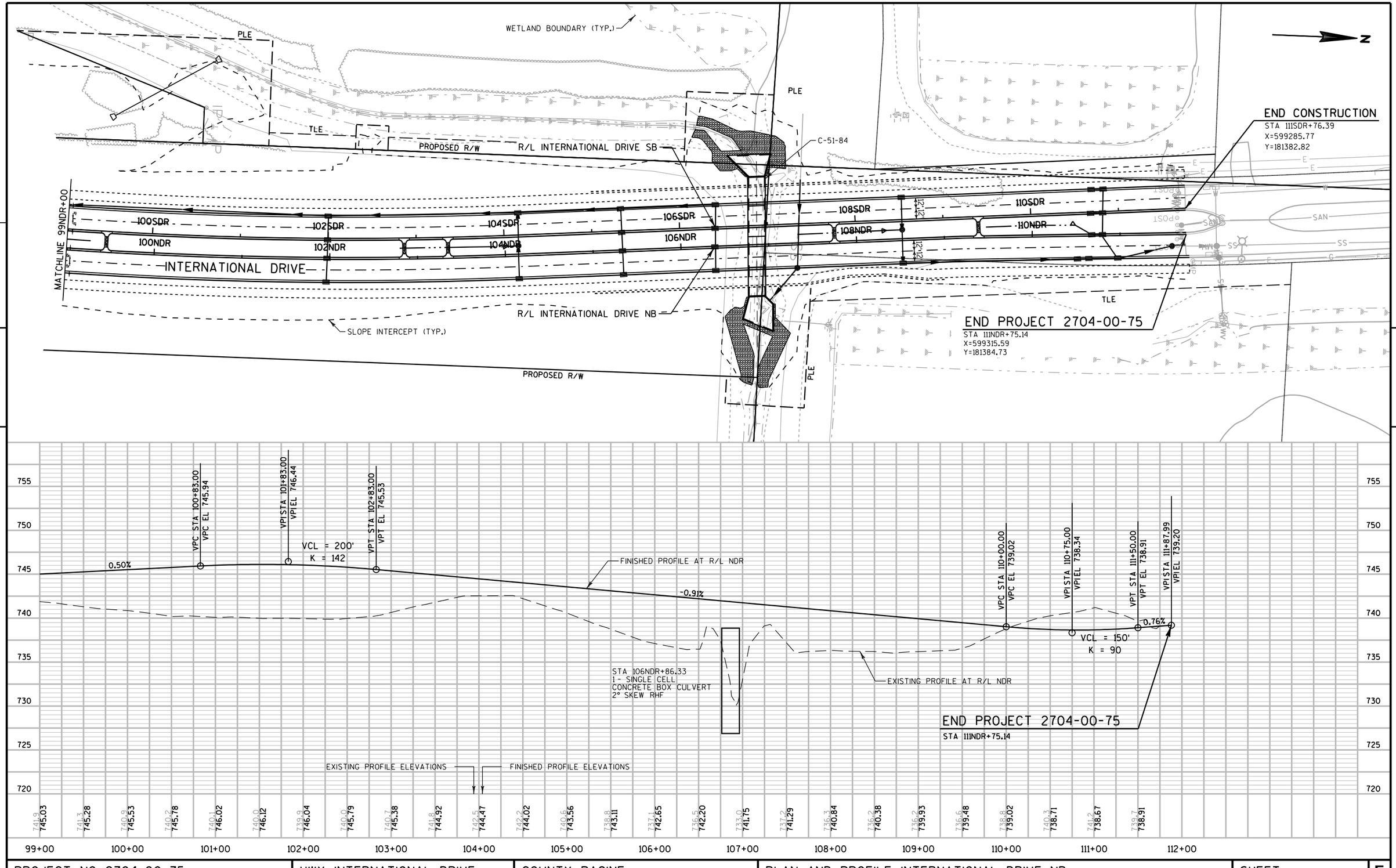
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE NB	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive.dgn PLOT DATE : 4/5/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

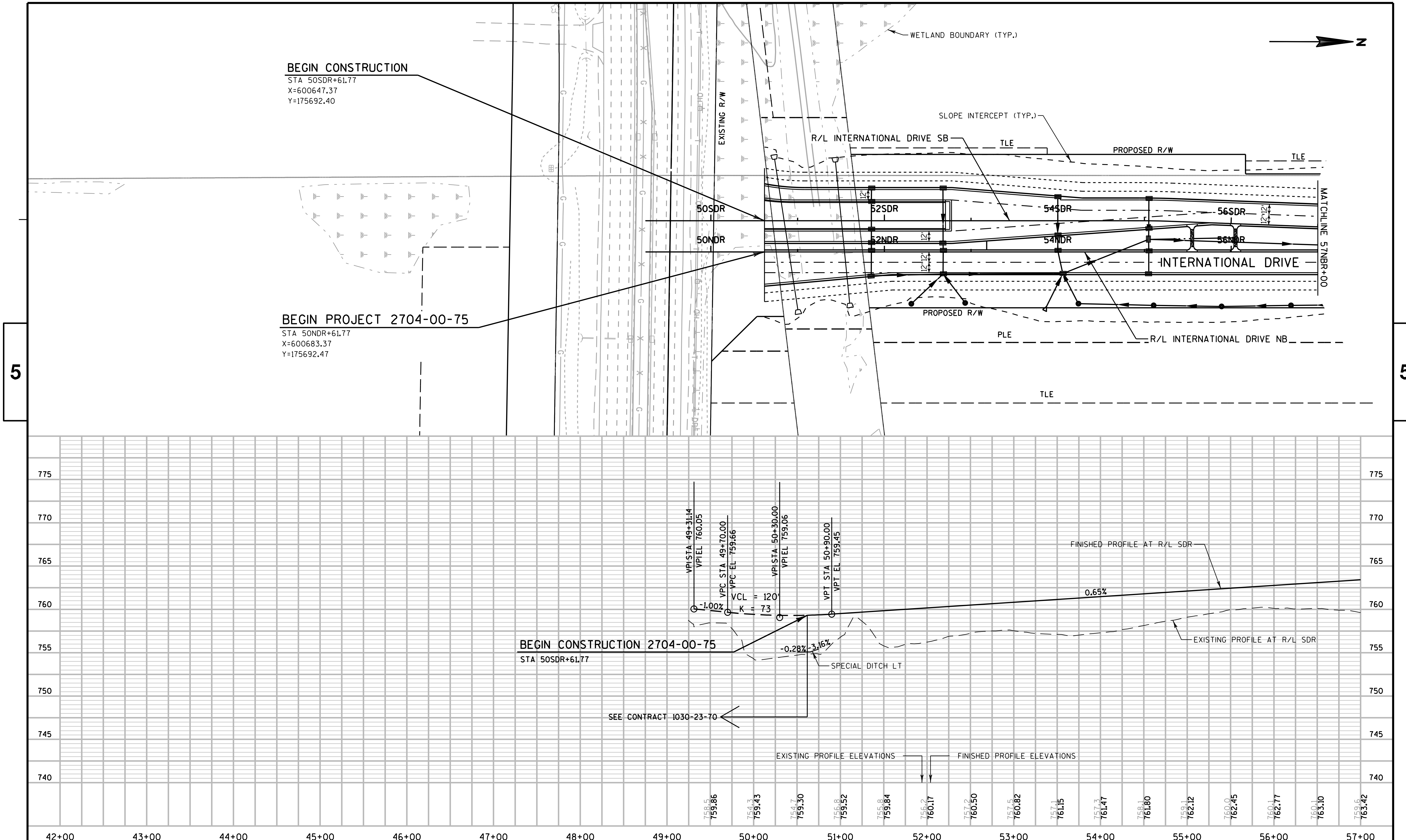
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE NB	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr Intersection Improvements.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

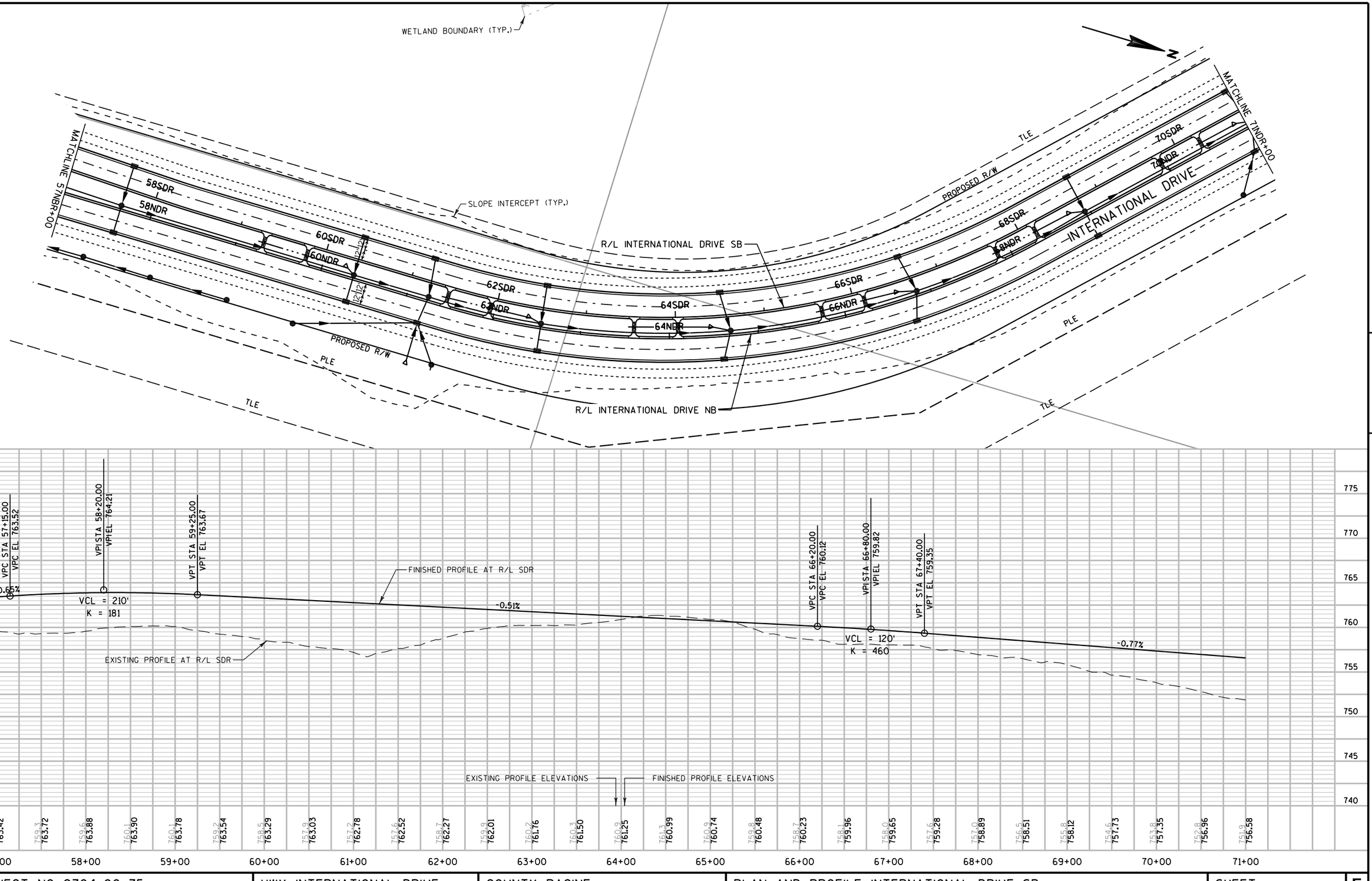
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE SB	SHEET 200	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\cds\050102618pp.dgn PLOT DATE : 4/5/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

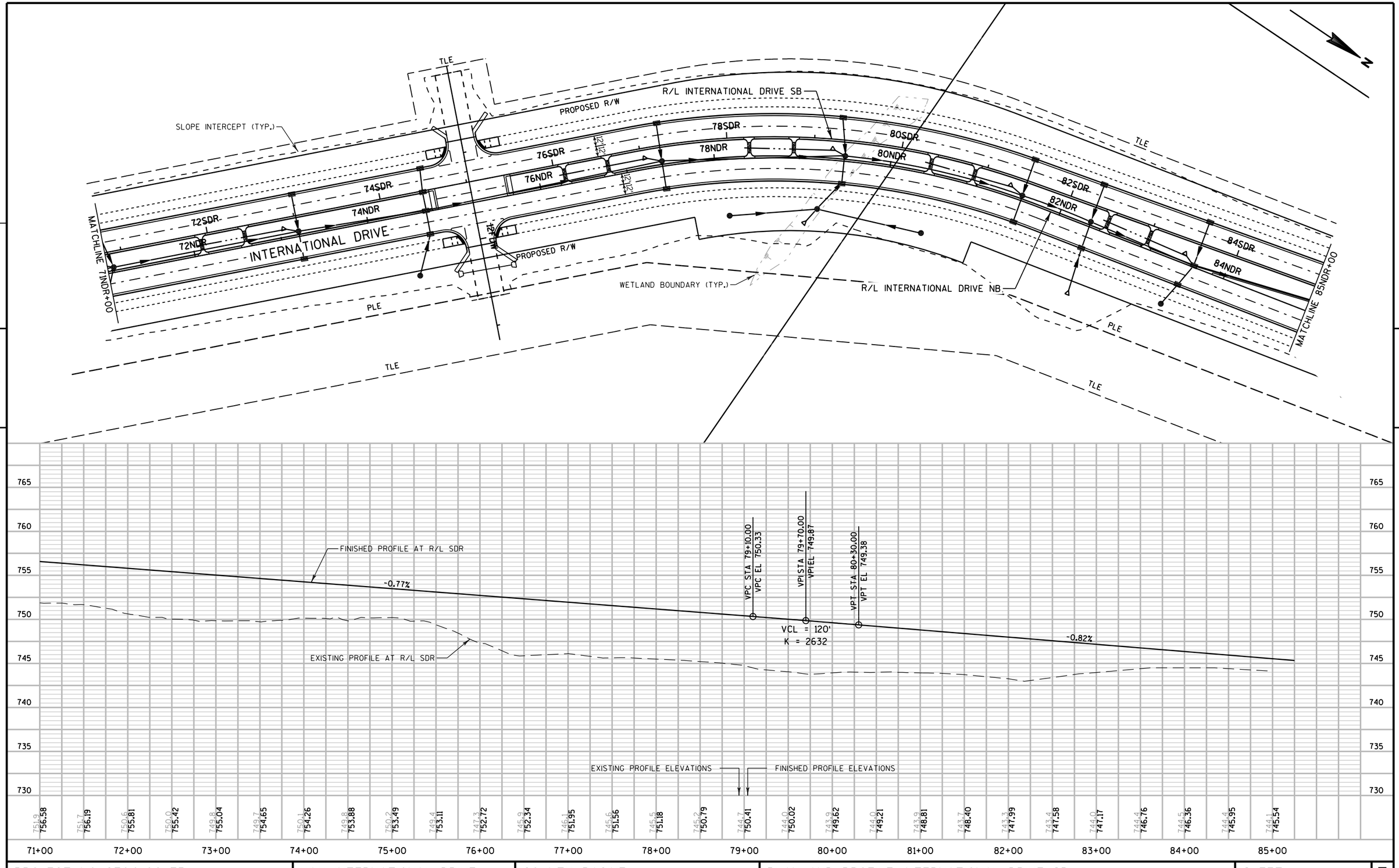
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE SB	SHEET 201	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive Reconstruction\Cads\4058120718p.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

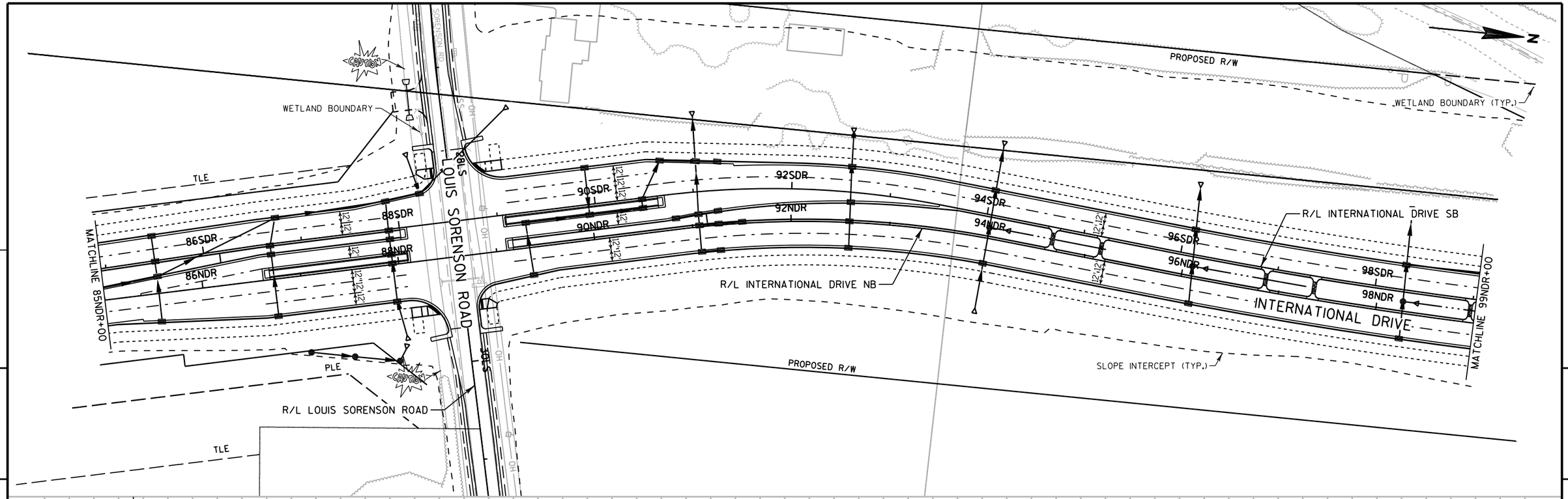
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE SB	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr SB Plan and Profile.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

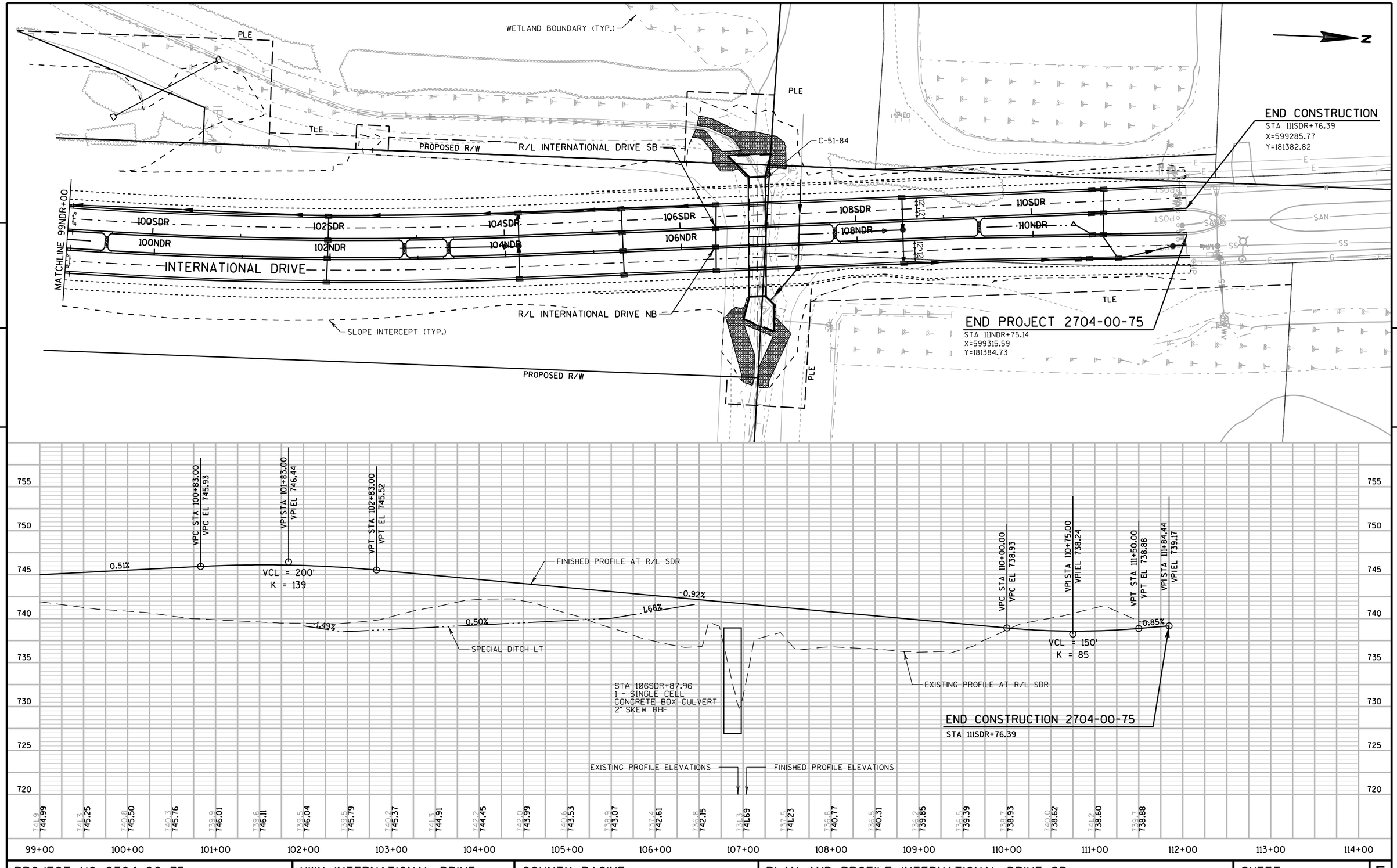
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE SB	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International_Dr_SB_PP_and_TC_ds_05012018.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

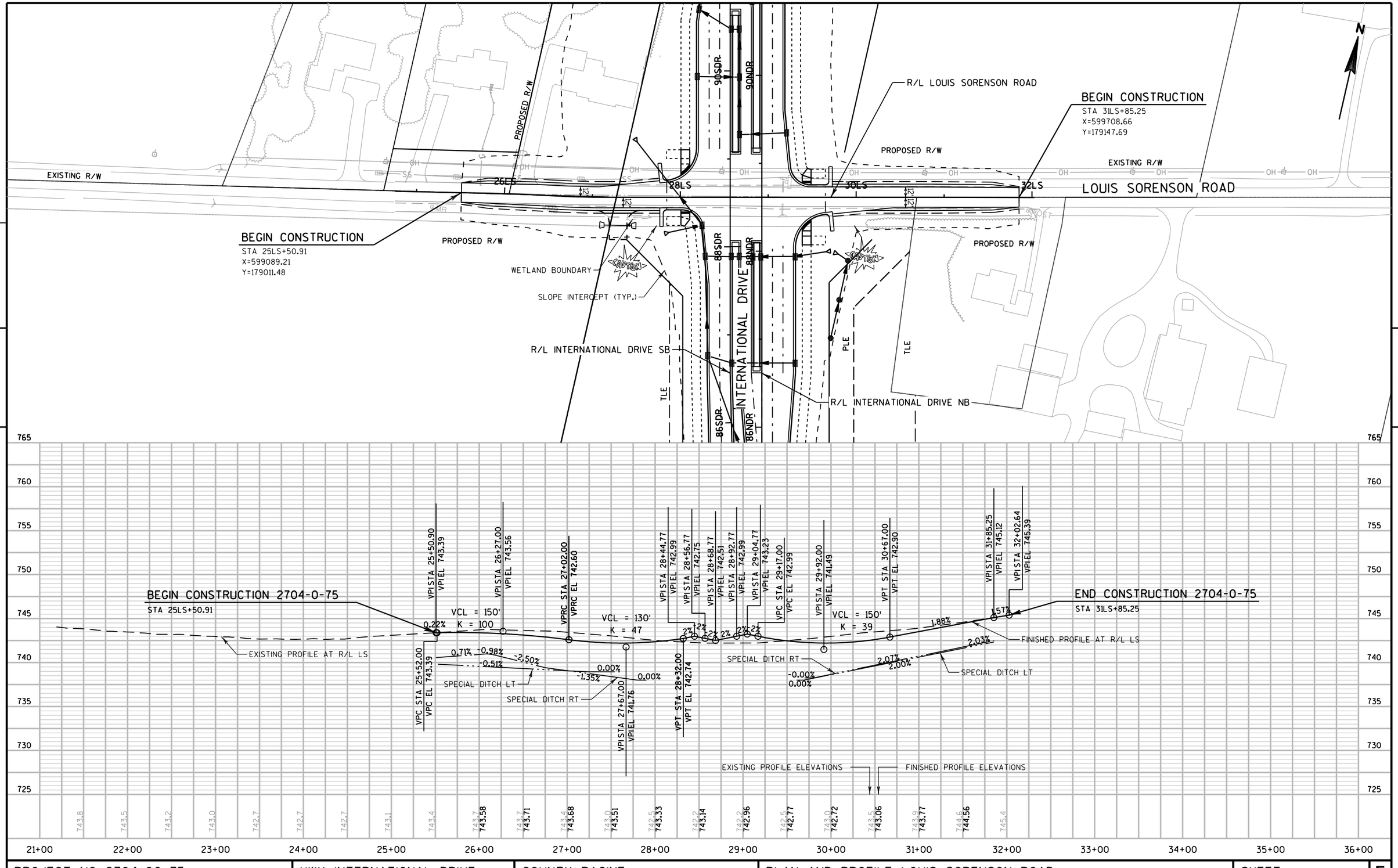
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: INTERNATIONAL DRIVE SB	SHEET 204 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr 01 ATE.dgn 4/5/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

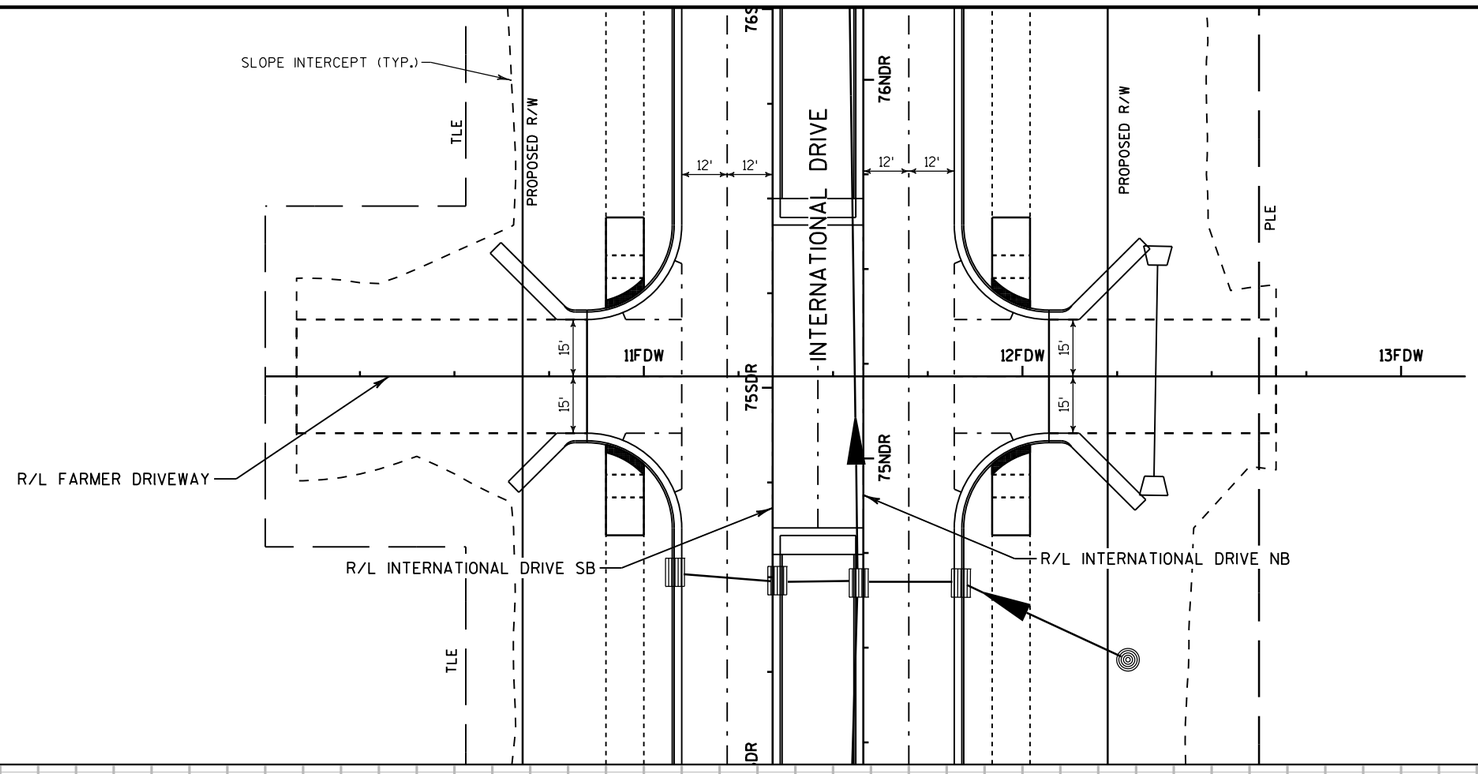
WISDOT/CADDS SHEET 40

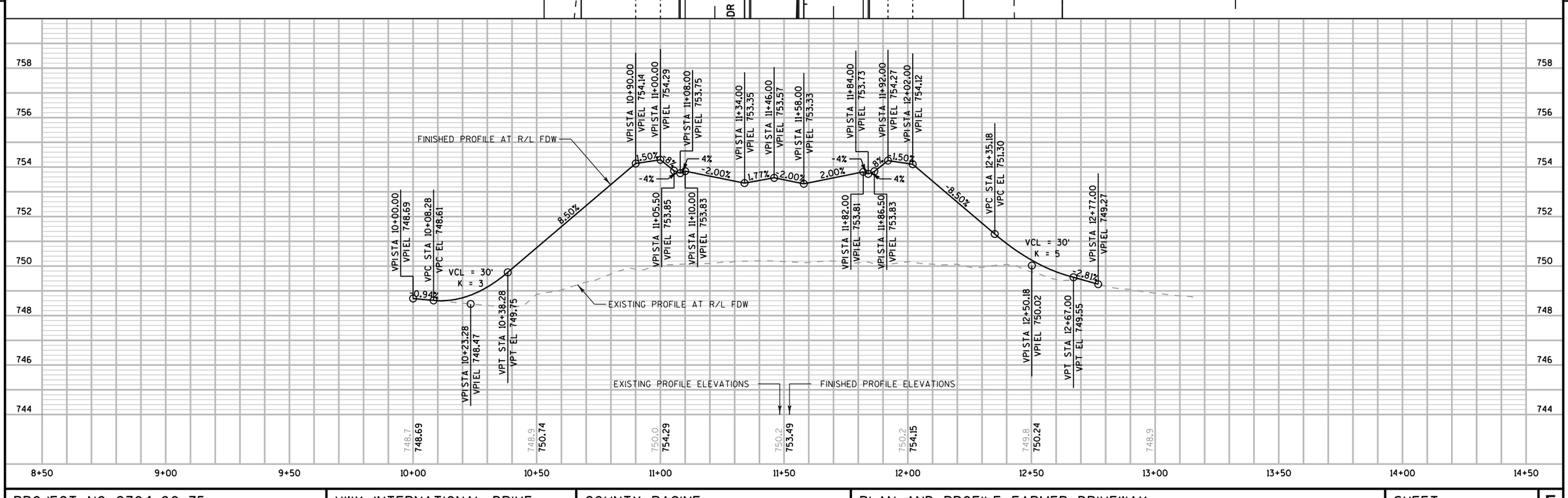


PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: LOUIS SORENSON ROAD	SHEET 205 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalDrive.dgn PLOT DATE : 4/05/2018 PLOT BY : mcanada PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40





PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	PLAN AND PROFILE: FARMER DRIVEWAY	SHEET 206 E

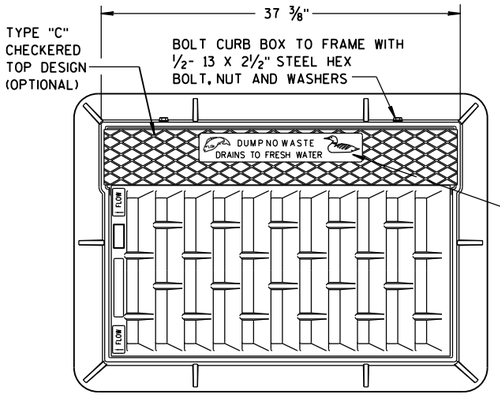
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr Intersections\Cadd\Roadway\Plan_Profile_Farmer_Driveway_20181221.dgn PLOT BY : mcanada PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

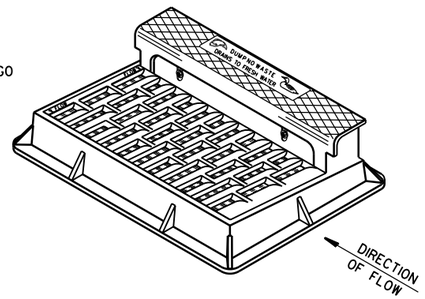
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-05A	CONCRETE PAVEMENT JOINTING
13C18-05B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-05C	CONCRETE PAVEMENT JOINT TYPES
13C18-05D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C18-04	MEDIAN ISLAND MARKING
15C27-02A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-02B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

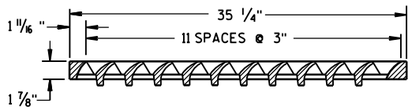
6

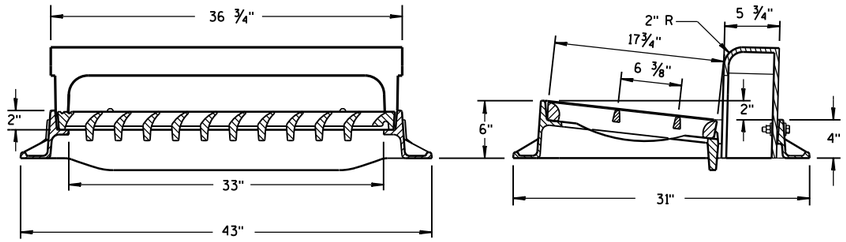


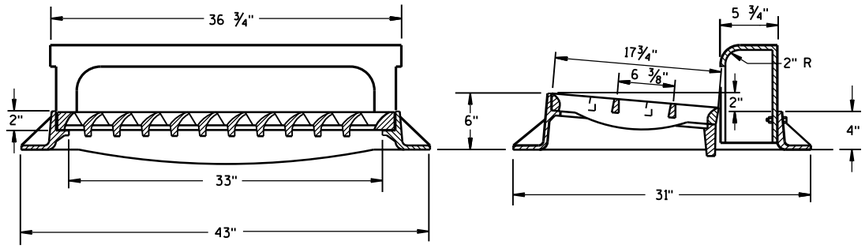
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

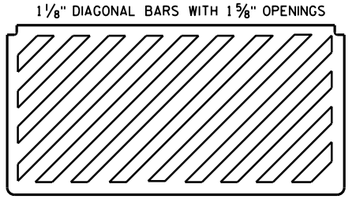






TYPE "H"

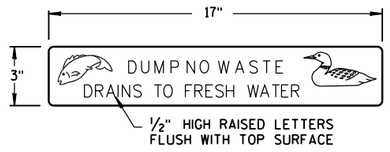
NOTE: EITHER CASTING IS ACCEPTABLE



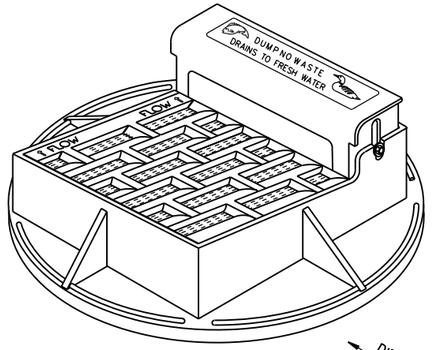
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

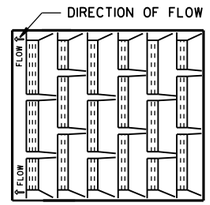
NOTE:
GRATE IS REVERSIBLE.

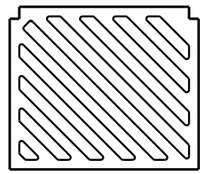
GENERAL NOTES

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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

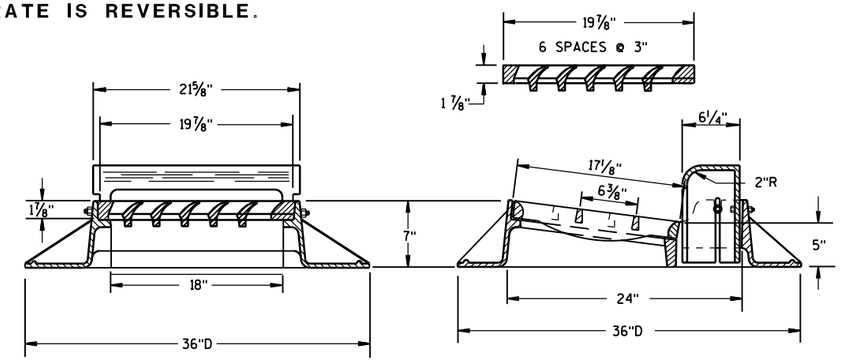




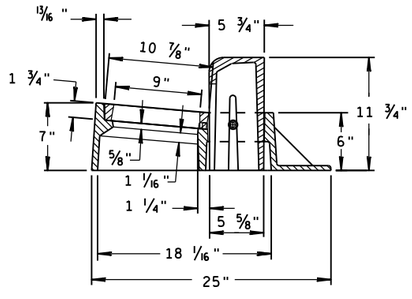
SPECIAL GRATE FOR TYPE "A" COVER

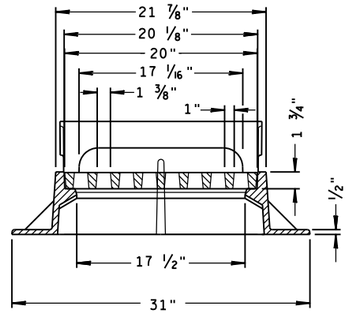
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

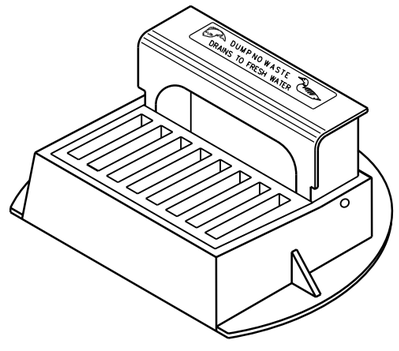


TYPE "A"





TYPE "Z"



INLET COVERS
TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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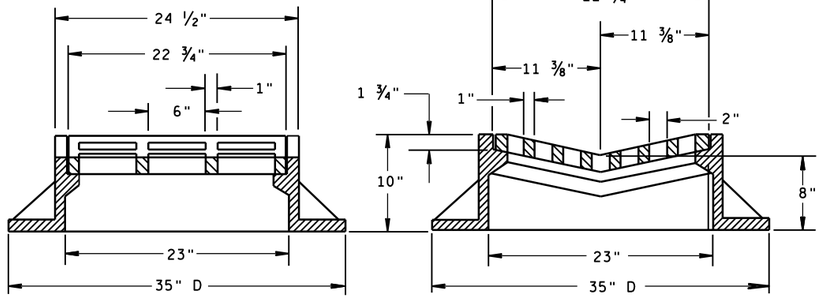
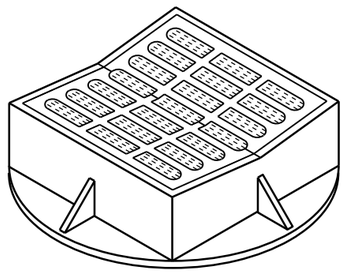
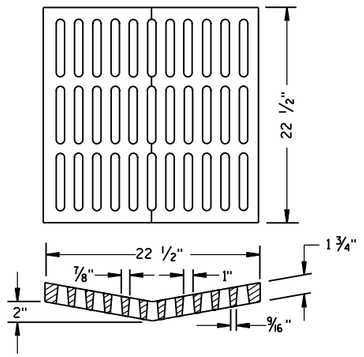
S.D.D. 8 A 5-19a



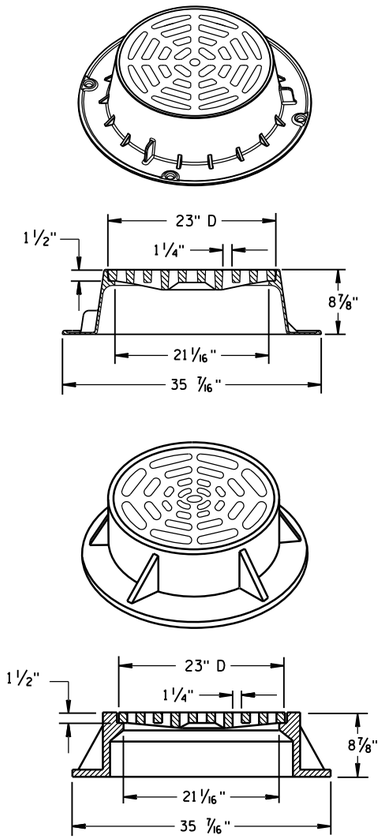


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

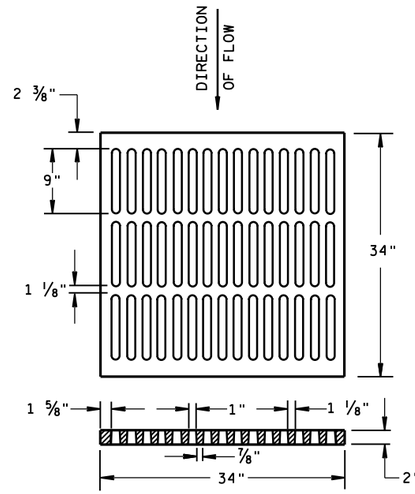
NOTE: EITHER CASTING IS ACCEPTABLE

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.

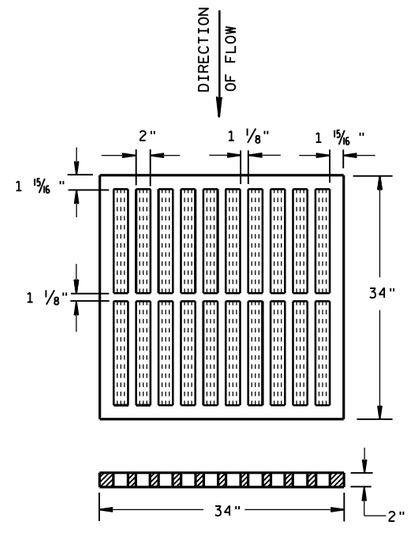
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



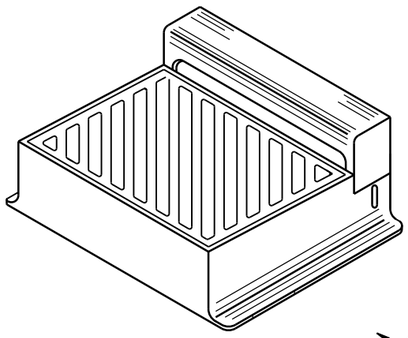
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

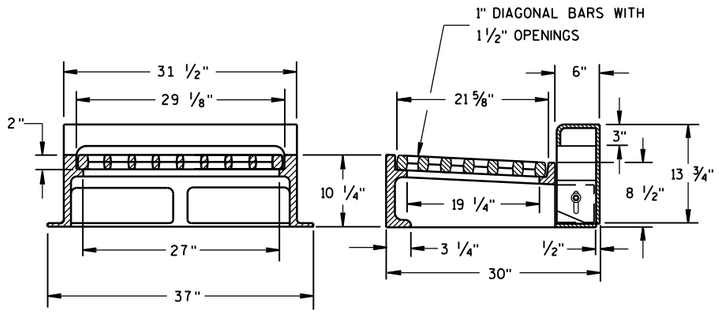


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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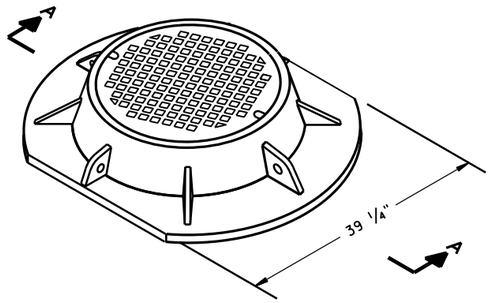
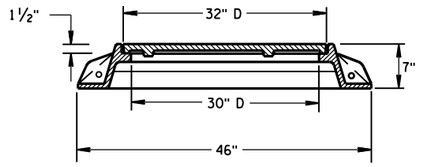
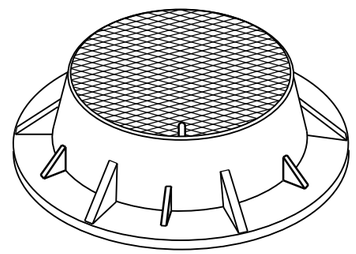
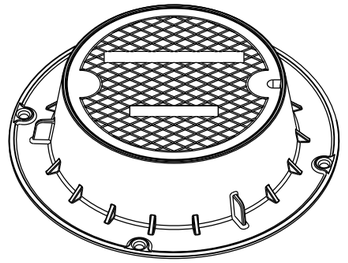
S.D.D. 8 A 5-19b

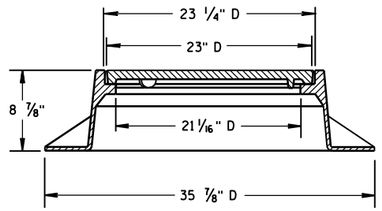


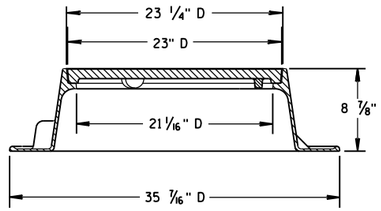


SECTION A-A
TYPE "K"









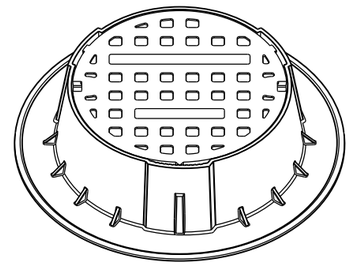
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

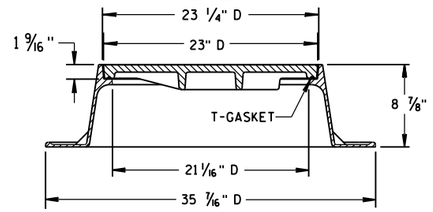
GENERAL NOTES

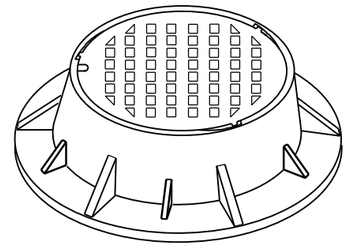
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

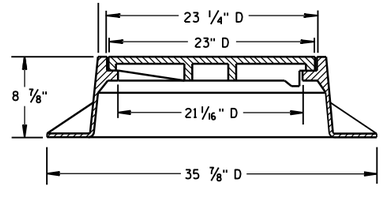
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

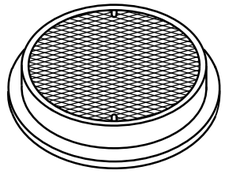


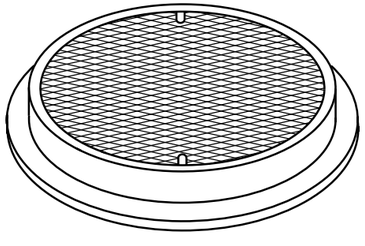


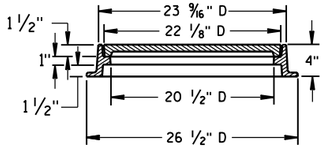




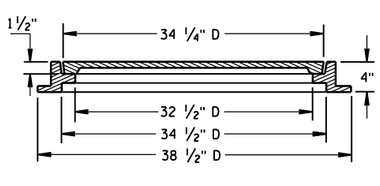
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



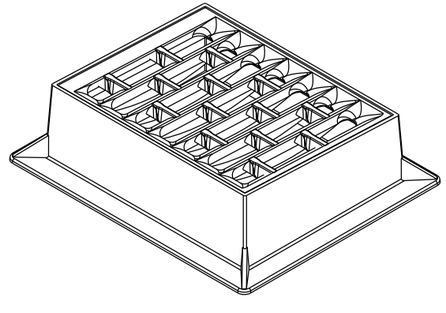


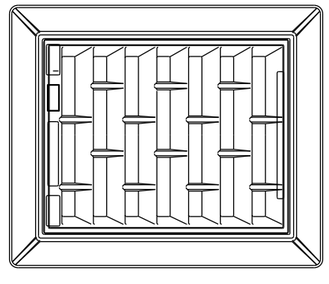


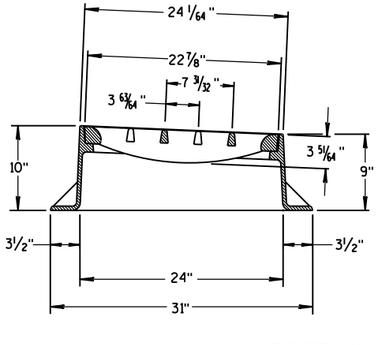
TYPE "L"

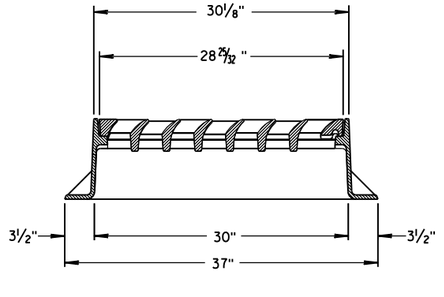


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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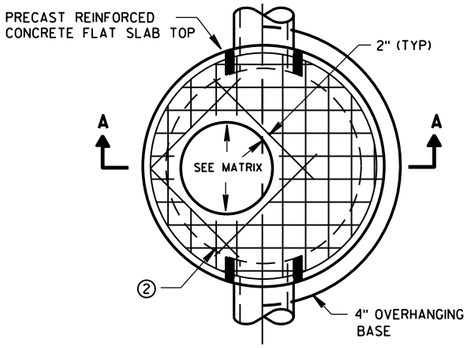
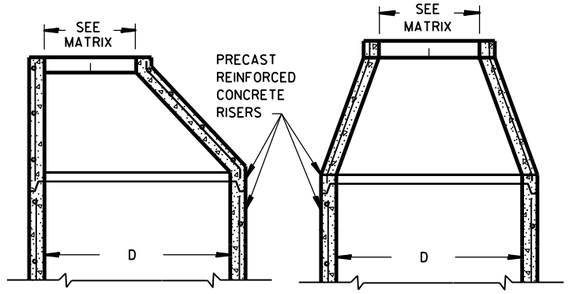
S.D.D. 8 A 5-19d

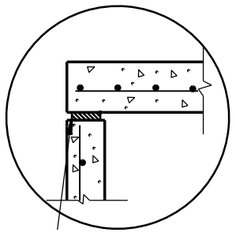


PLAN VIEW CIRCULAR OPENING

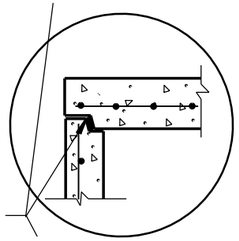


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

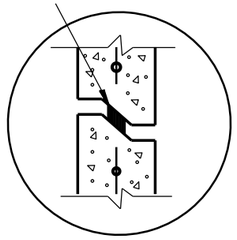


TOP WITH PLAIN END JOINT



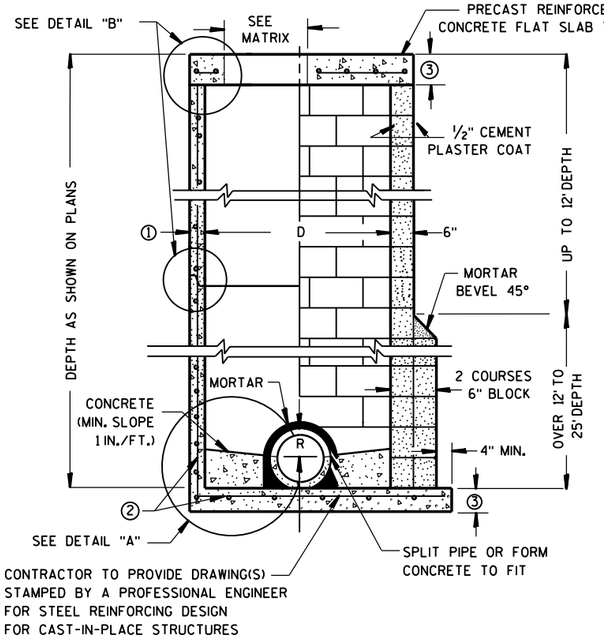
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



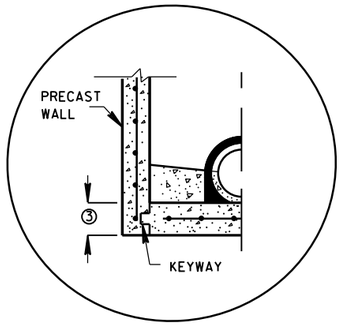
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

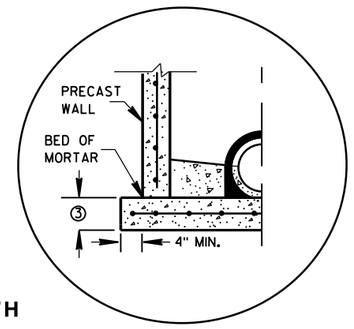


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

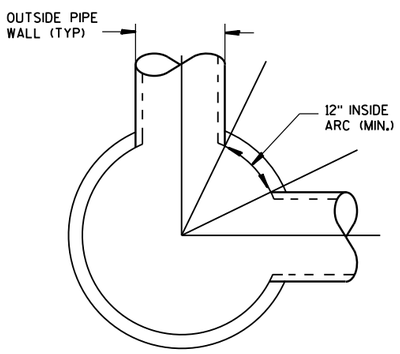


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

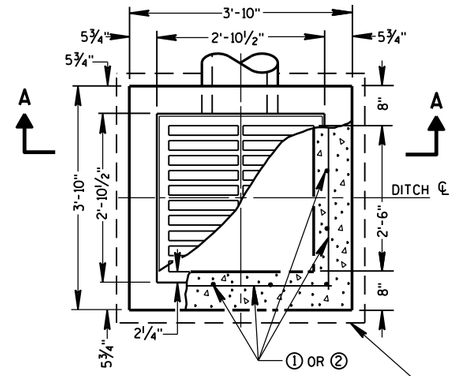
APPROVED

Sept., 2016
DATE

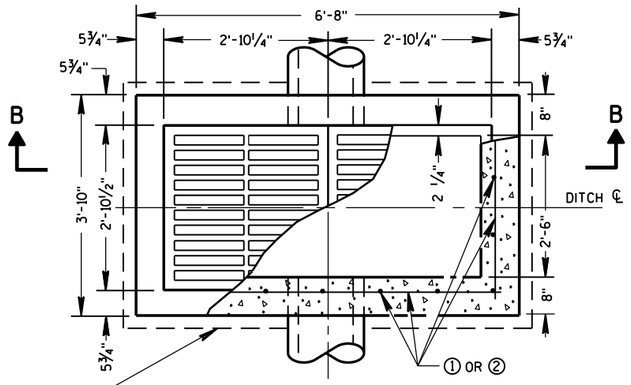
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

6
S.D.D. 8 B 9-2

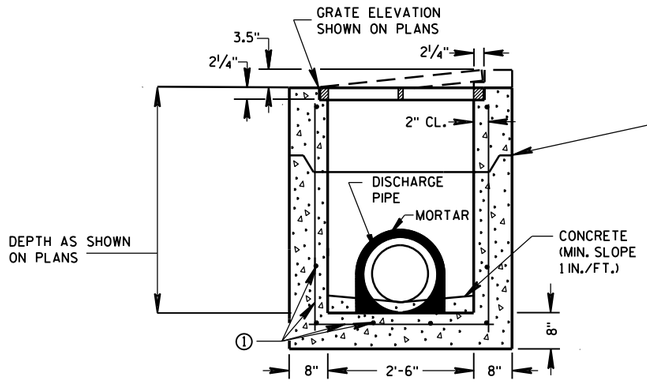


PLAN VIEW

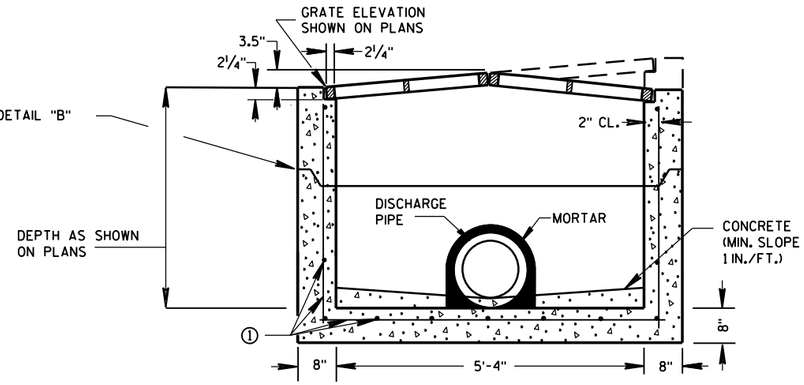


PLAN VIEW

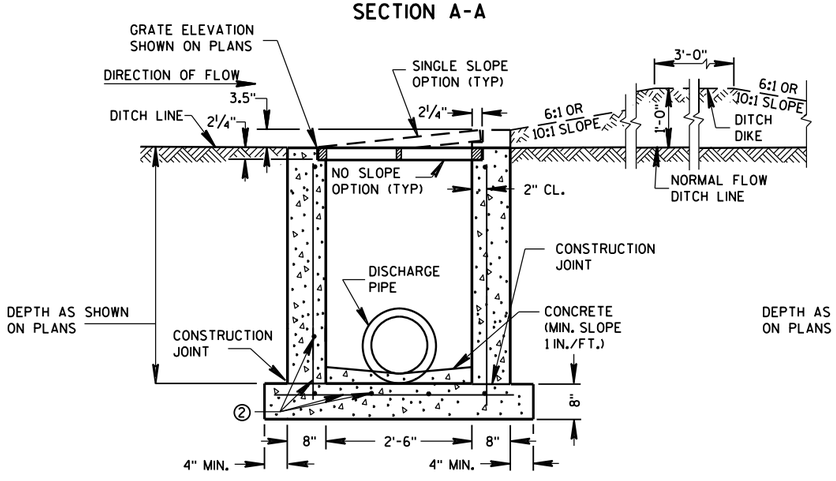
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



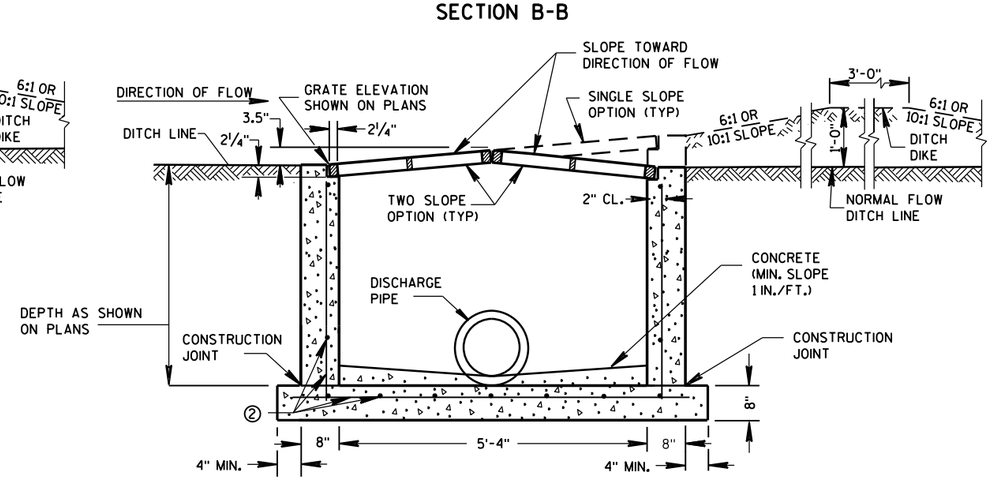
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

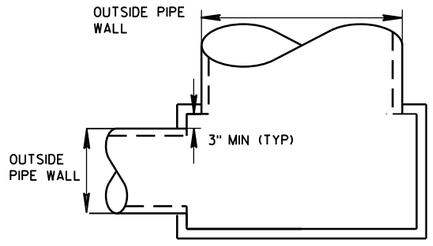
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

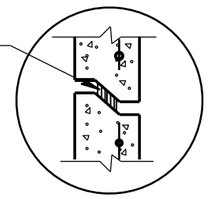
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



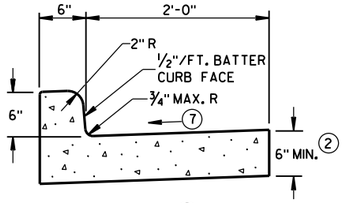
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

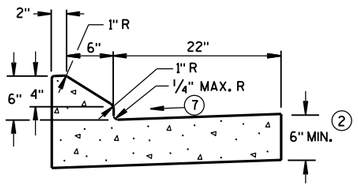
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

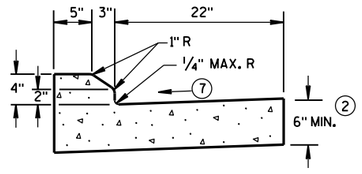
6
S.D.D. 8 C 8-2



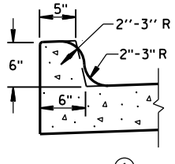
TYPES A (1) & D



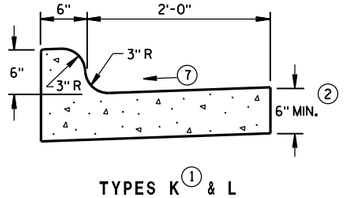
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

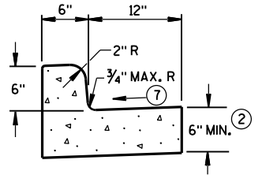


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



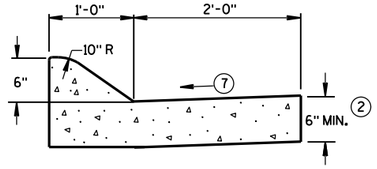
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

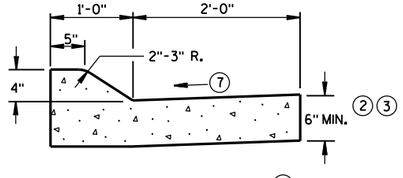


TYPES A (1) & D

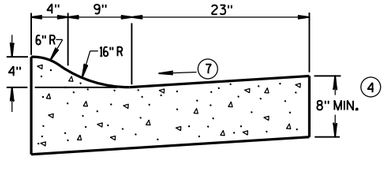
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

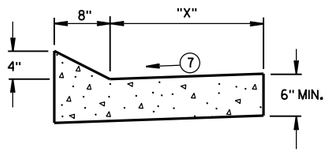


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

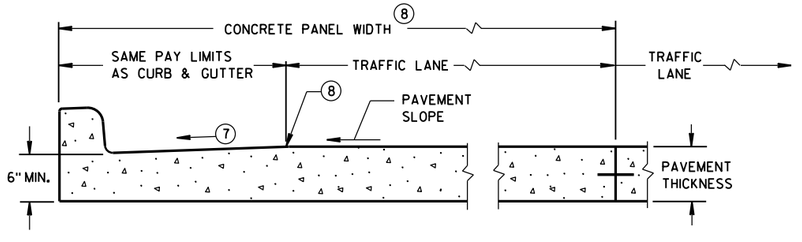
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

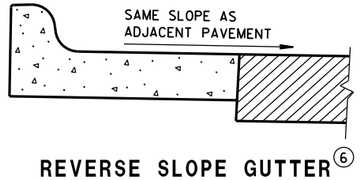
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.

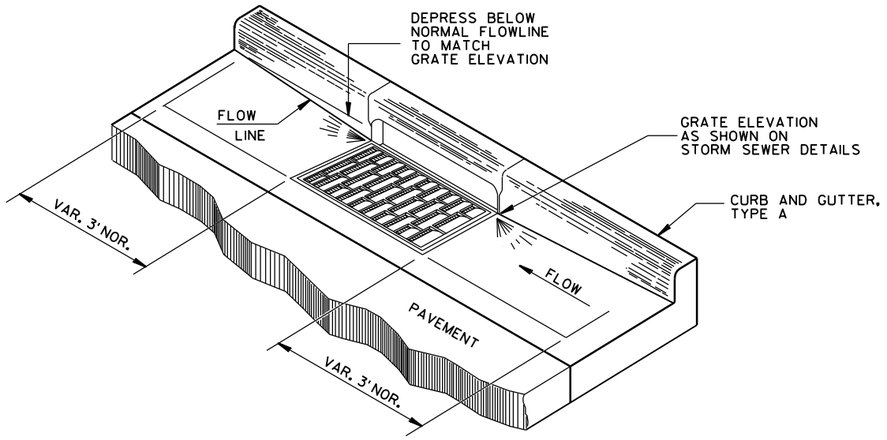


REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

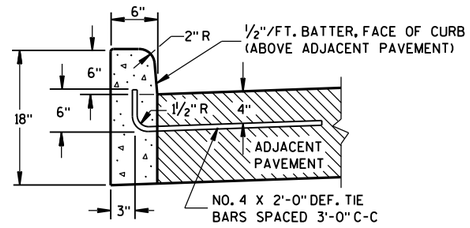
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

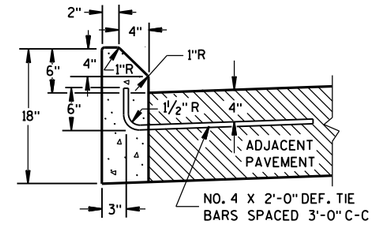
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

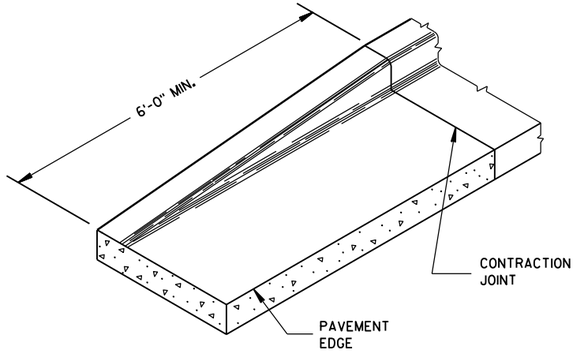


TYPES A (1) & D

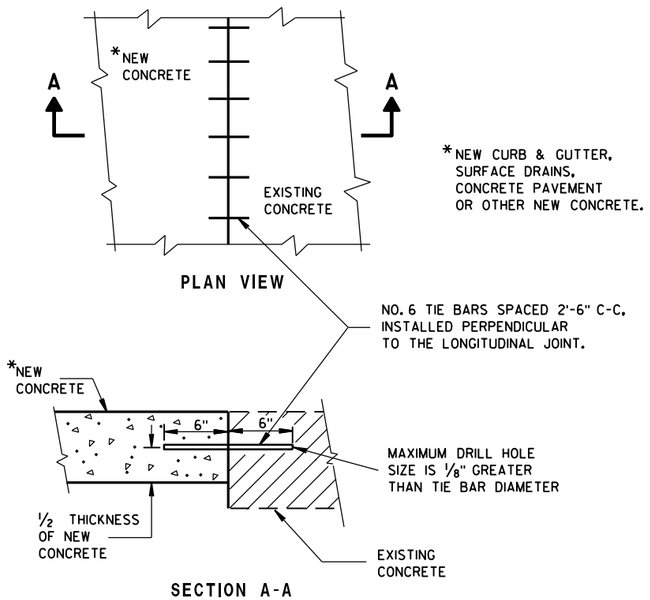


TYPES G (1) & J

CONCRETE CURB



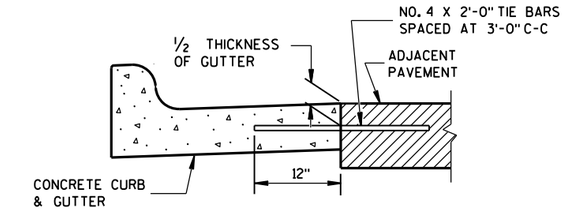
END SECTION CURB & GUTTER



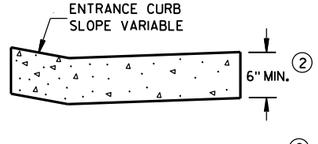
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
214 — ENT
FHWA

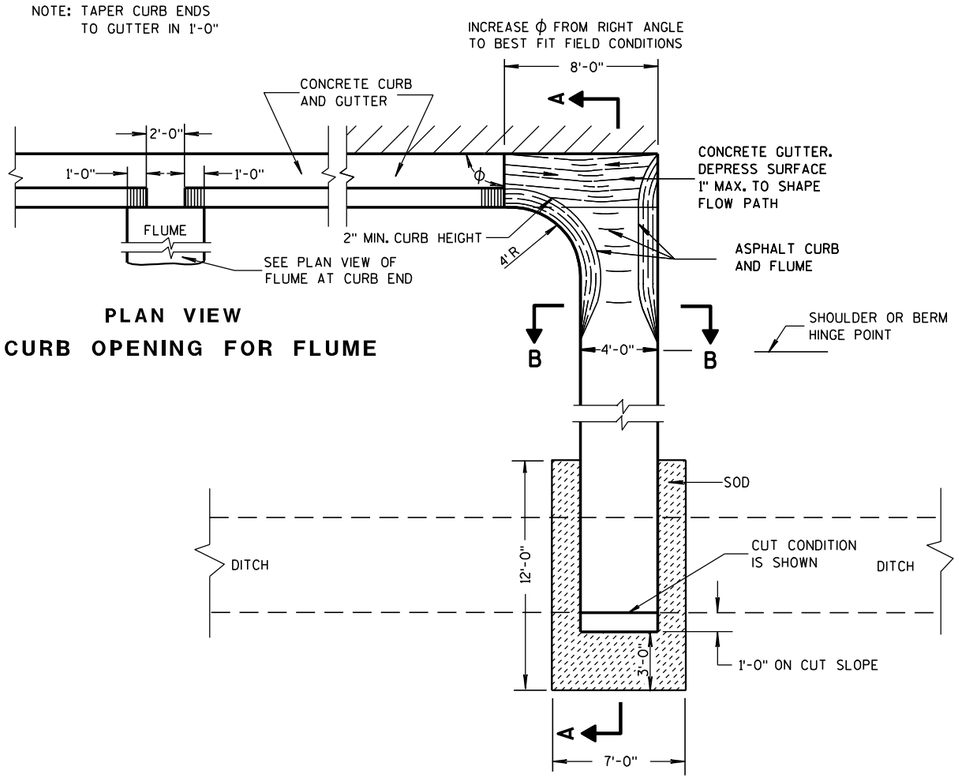
6

S.D.D. 8 D 1-20b

6

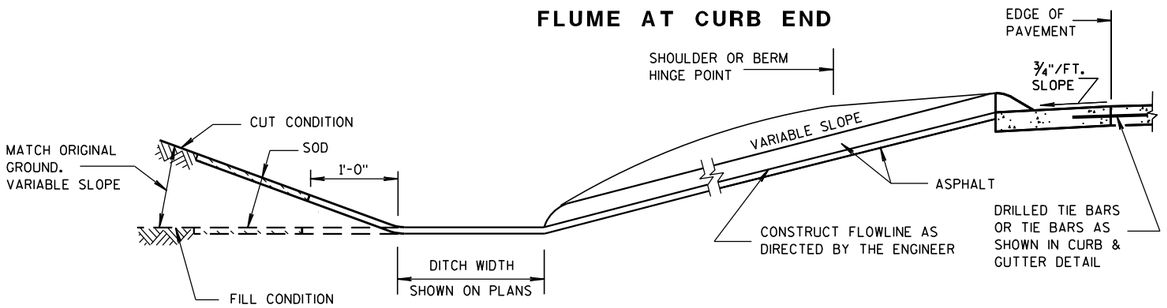
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

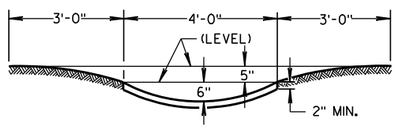


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

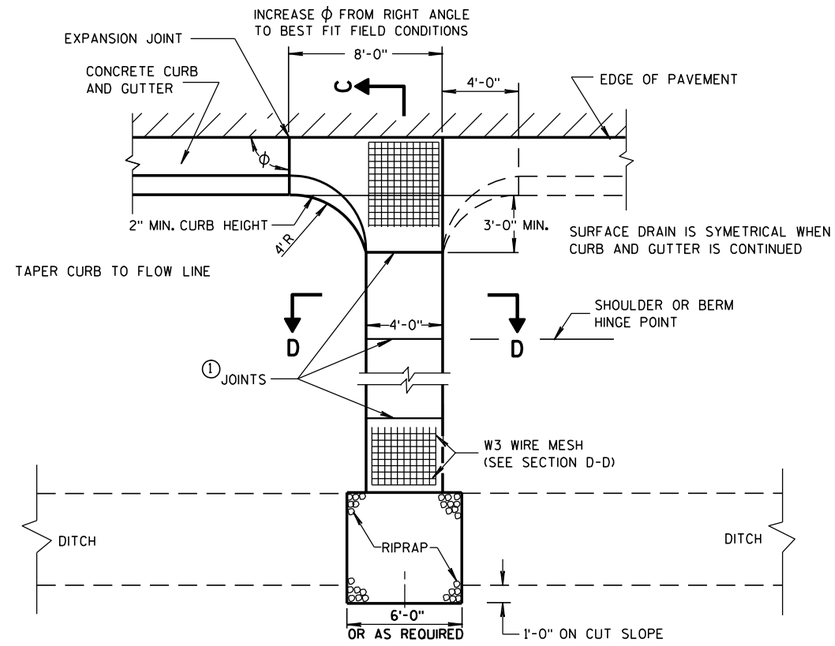
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

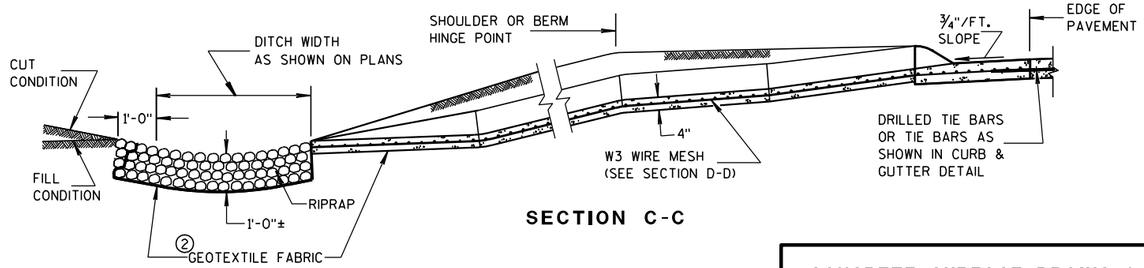
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

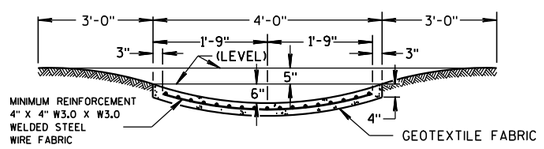
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

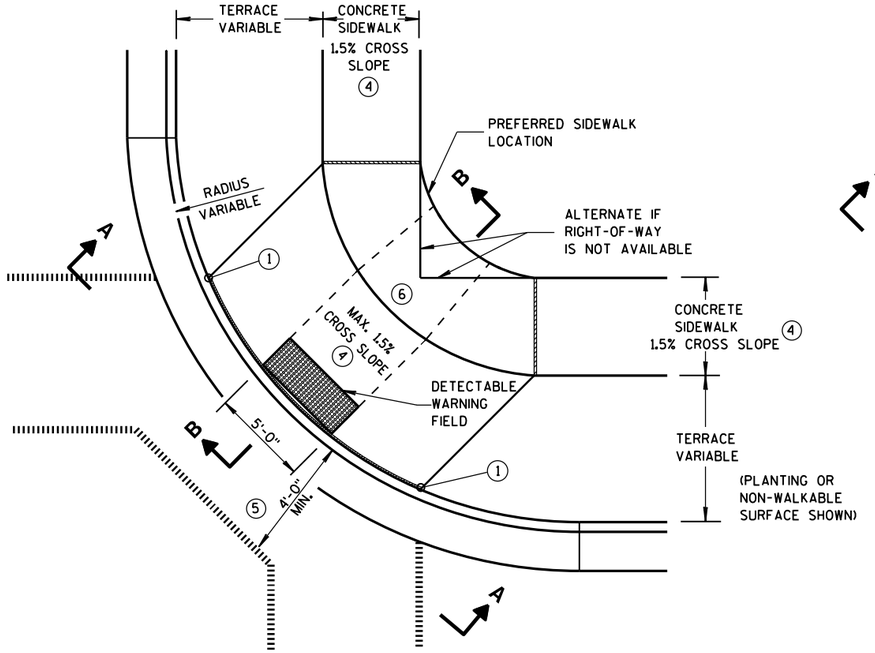
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
215
MENT
FHWA

6

S.D.D. 8 D 4-5

6

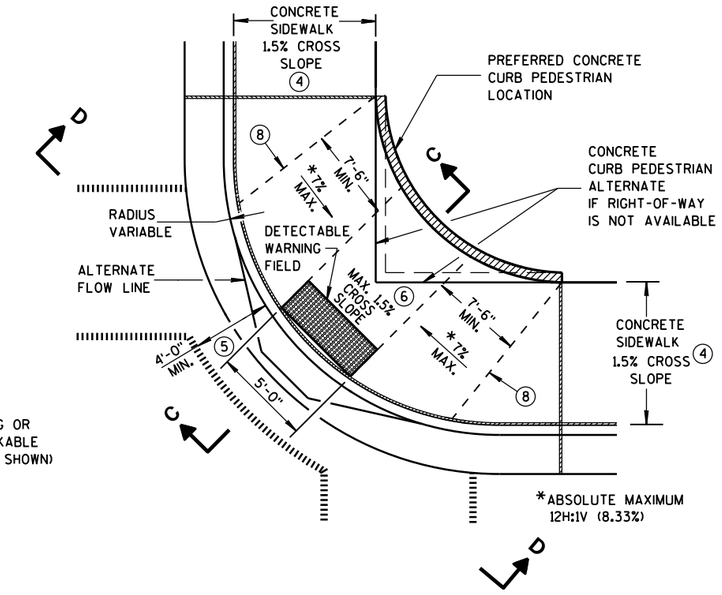
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

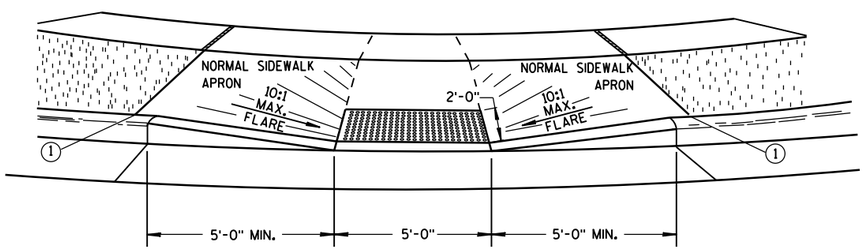
(CENTER OF CORNER RADIUS)



PLAN VIEW

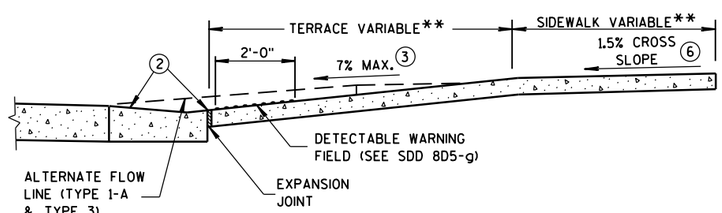
TYPE 1-A RAMP

(NO TERRACE)

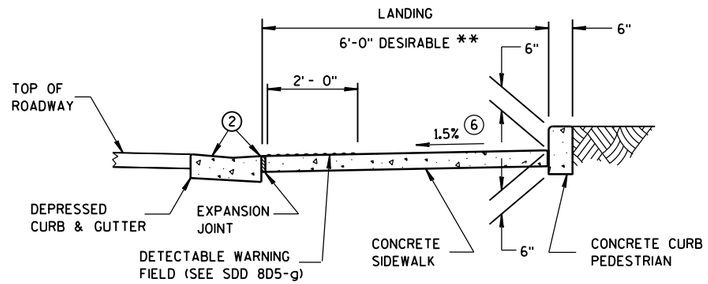


VIEW A-A

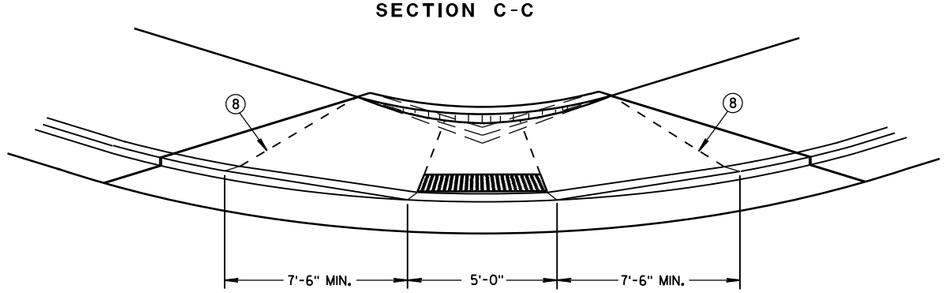
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

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. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

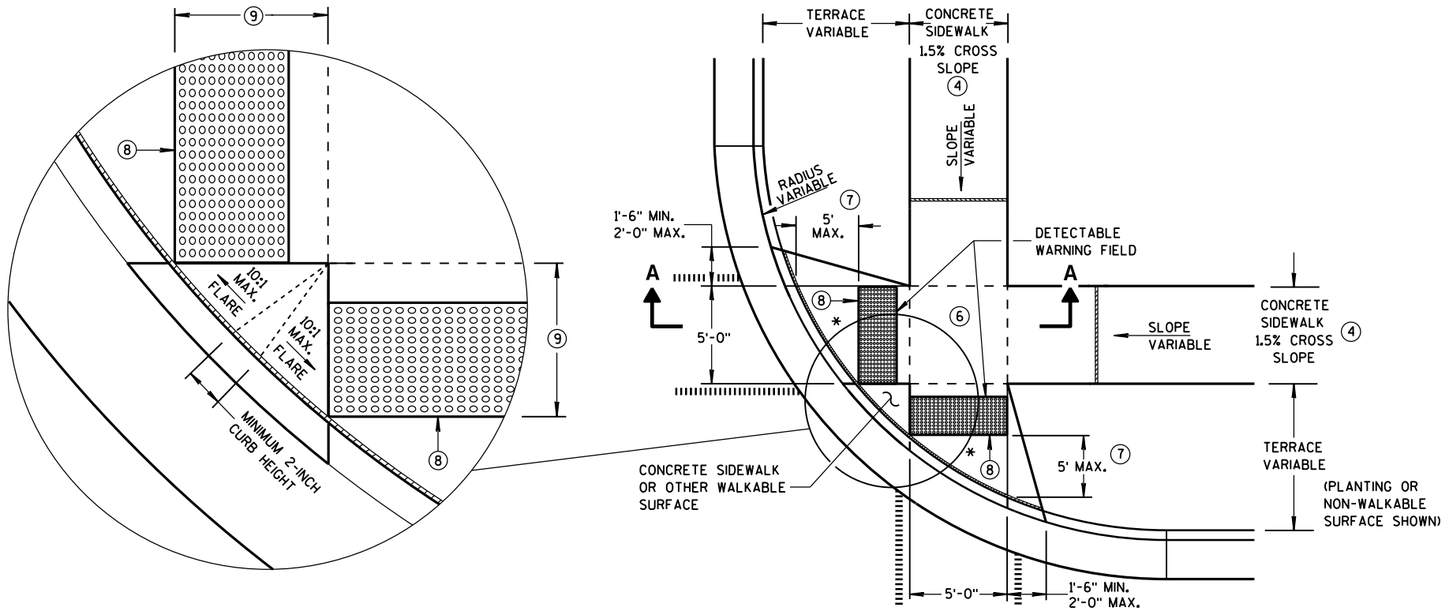
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

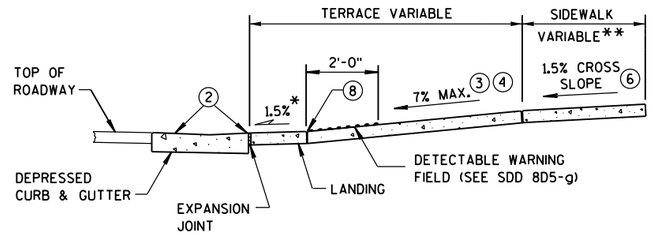
6

S.D.D. 8 D 5-19a



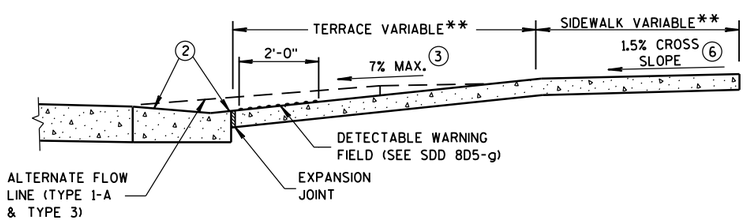
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

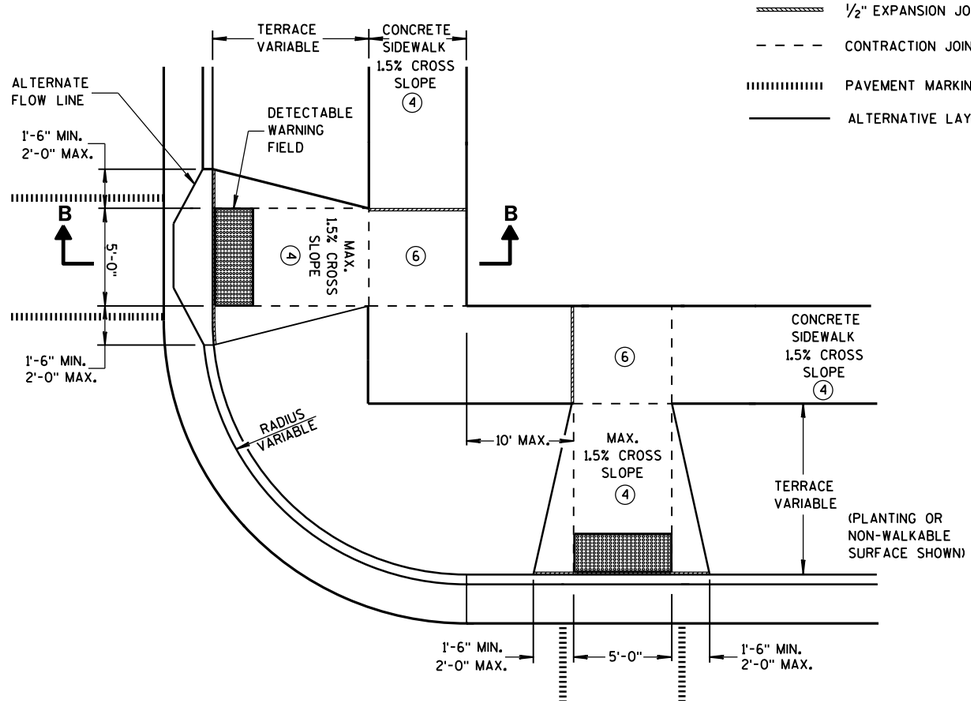
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

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



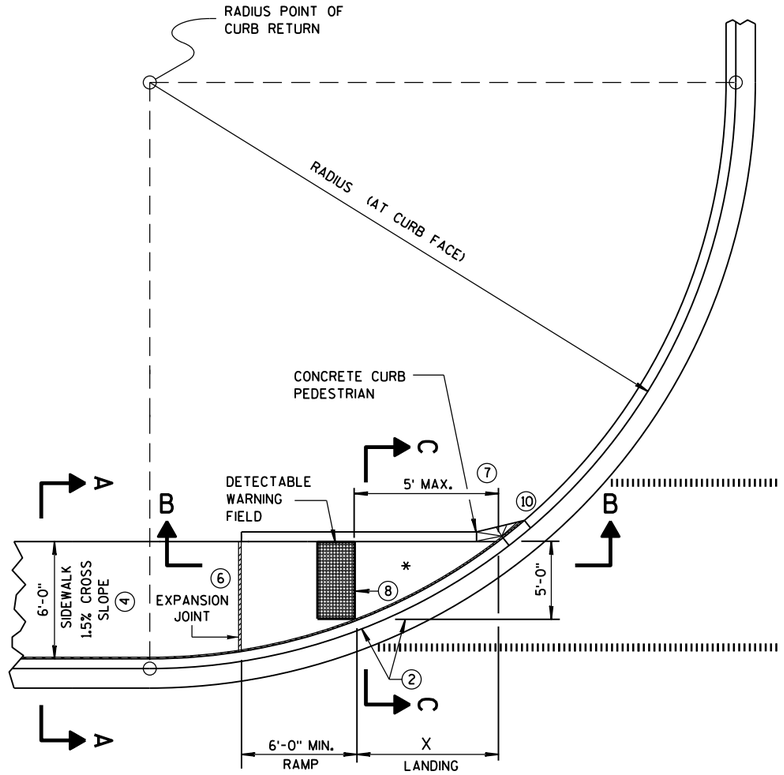
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

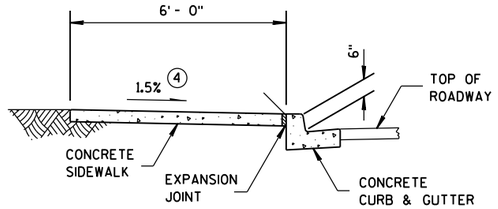
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

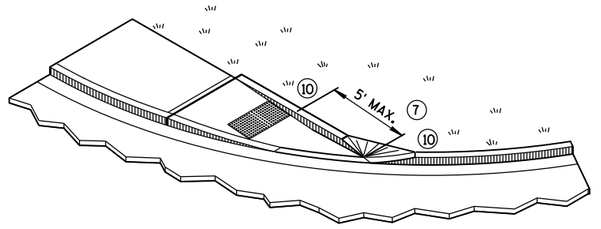
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

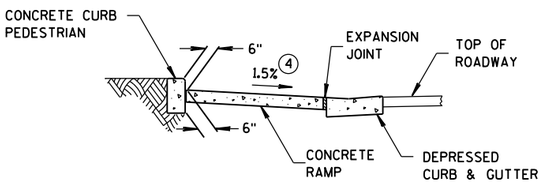
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

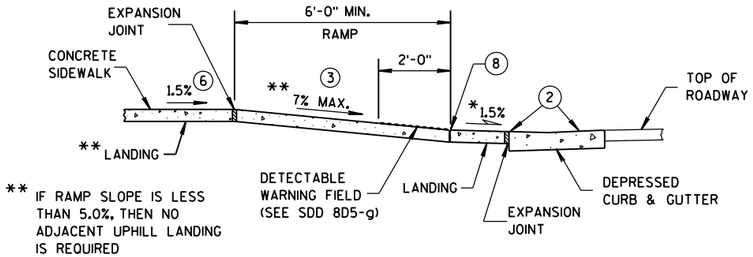
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



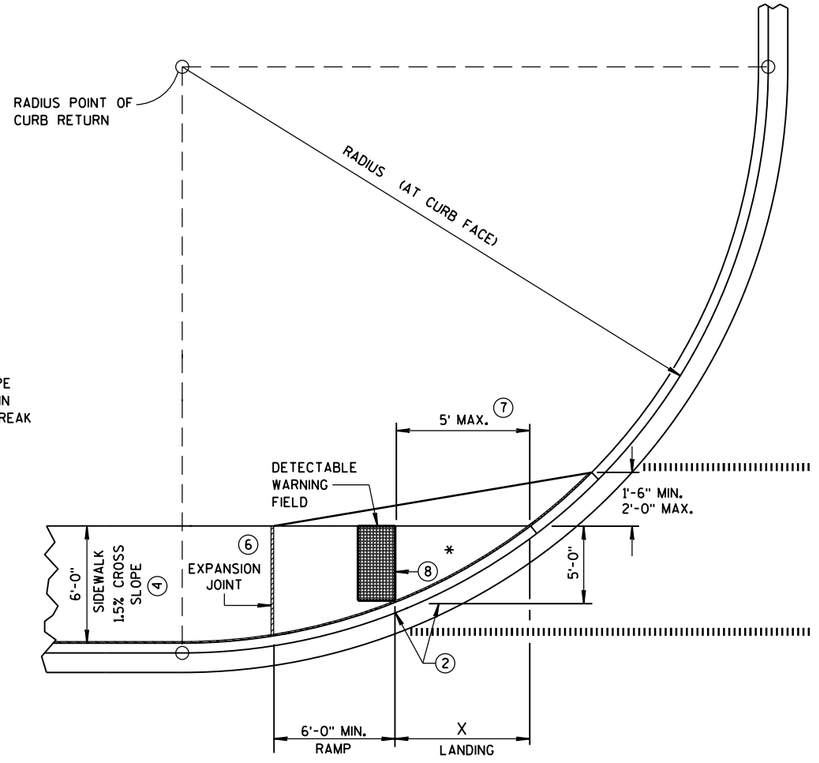
SECTION C-C FOR TYPE 4A



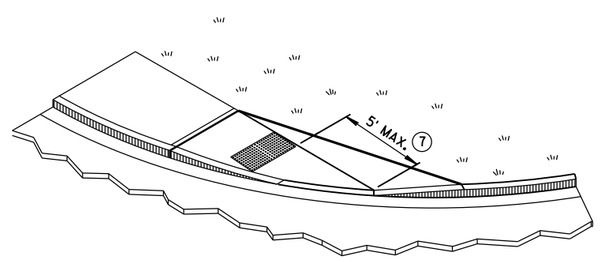
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

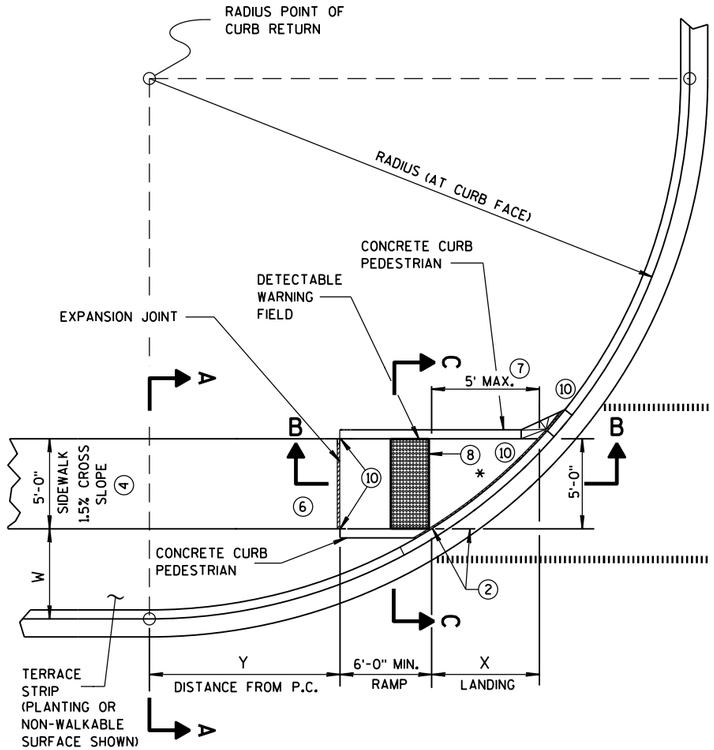
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

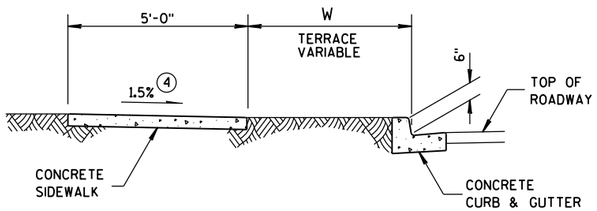
S.D.D. 8 D 5-19c

6

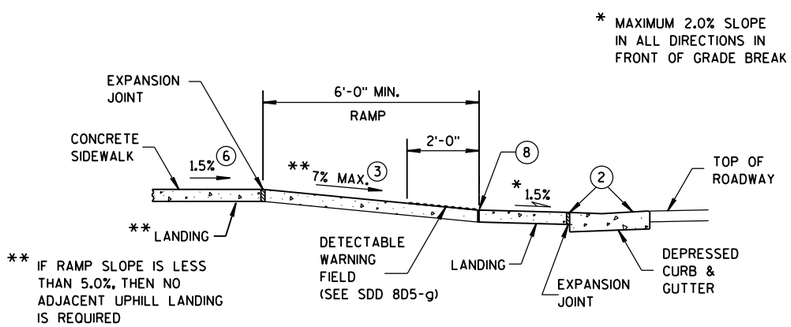
S.D.D. 8 D 5-19c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



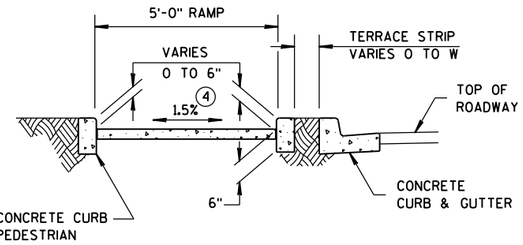
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

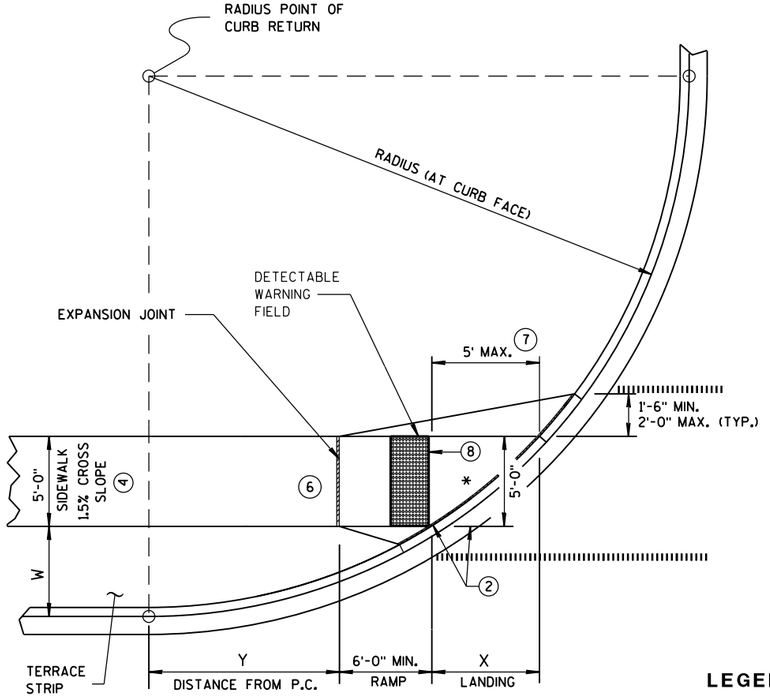
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

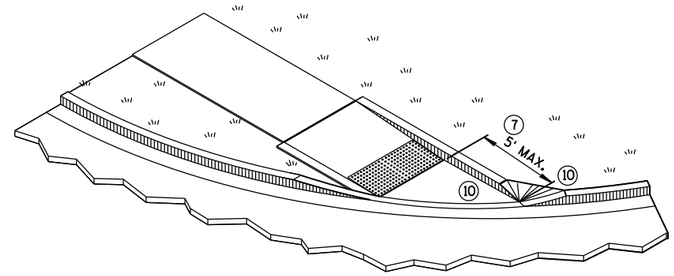
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

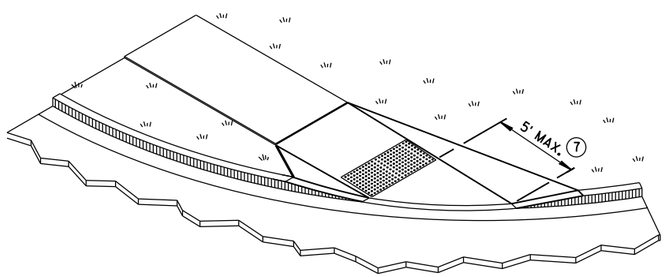
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

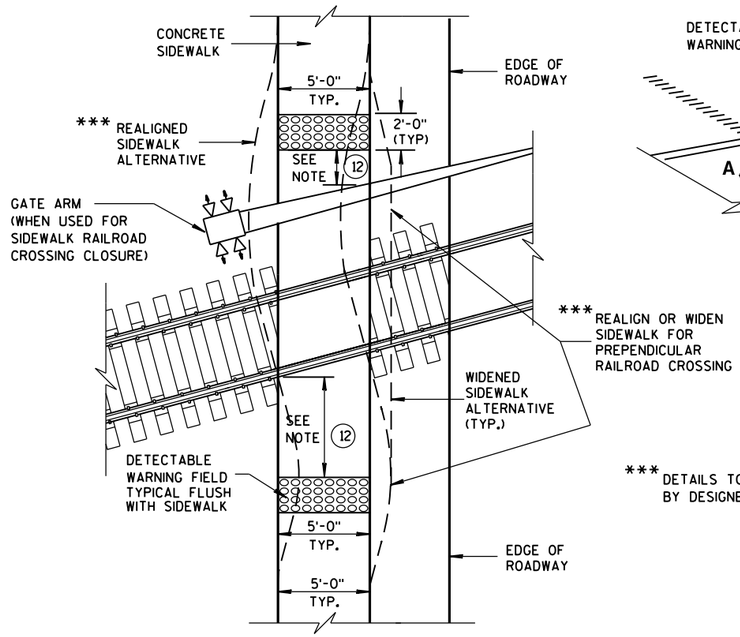
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

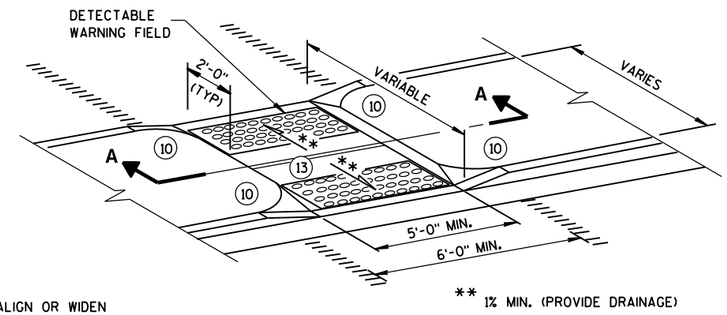
6

S.D.D. 8 D 5-19d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

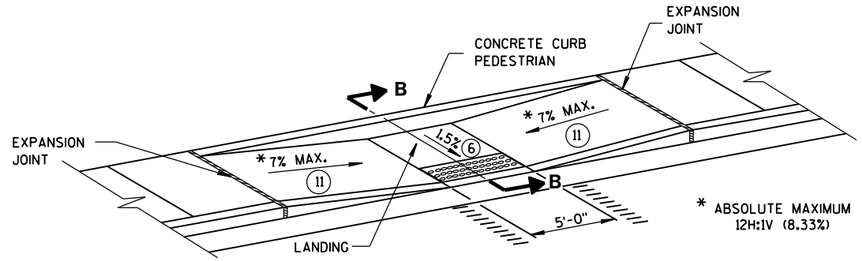
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

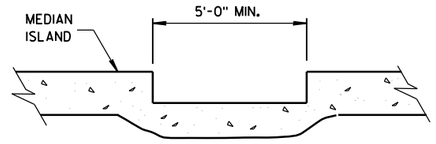
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) 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.

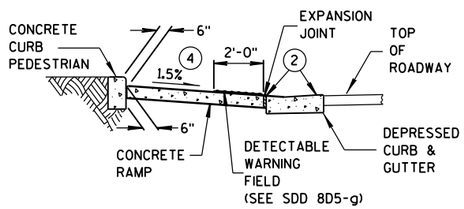
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

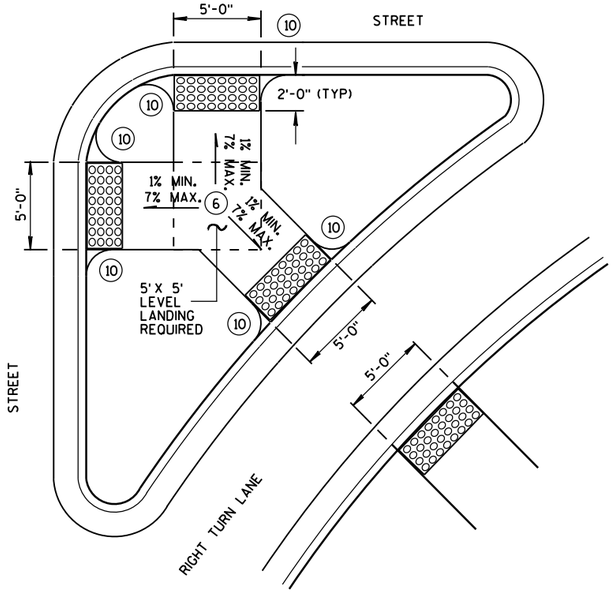


SECTION A-A

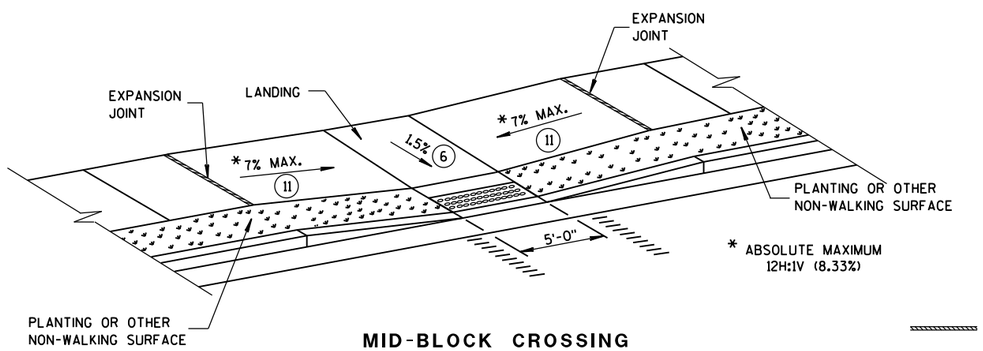


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



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

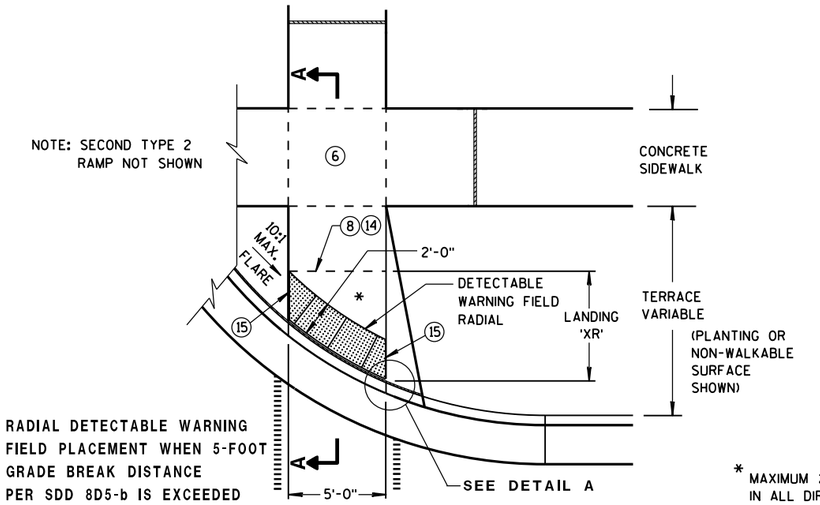
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

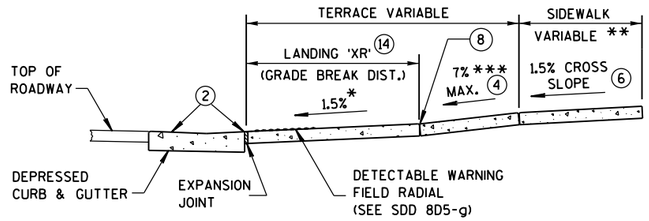
6

S.D.D. 8 D 5-19e
S.D.D. 8 D 5-19e



TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

LEGEND

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

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

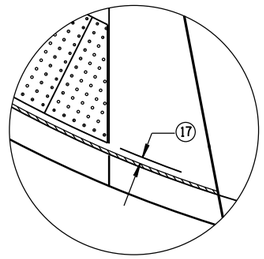
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

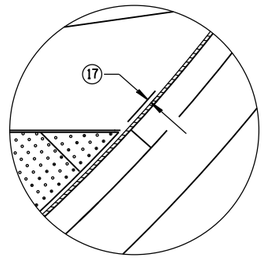
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

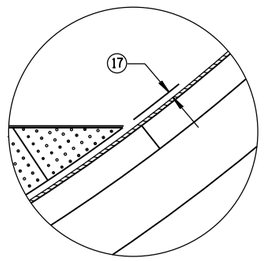
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



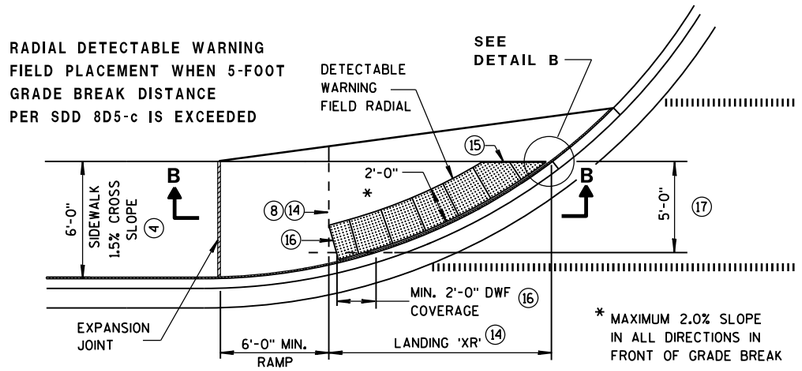
DETAIL A



DETAIL C

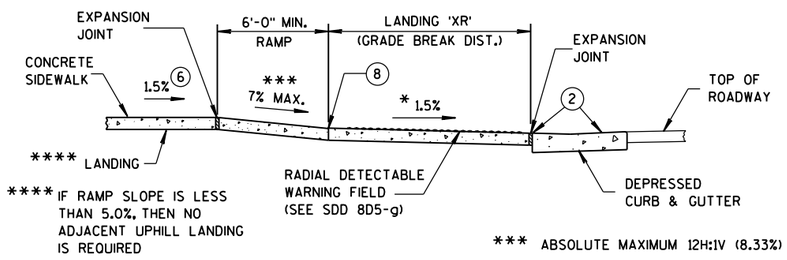


DETAIL B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

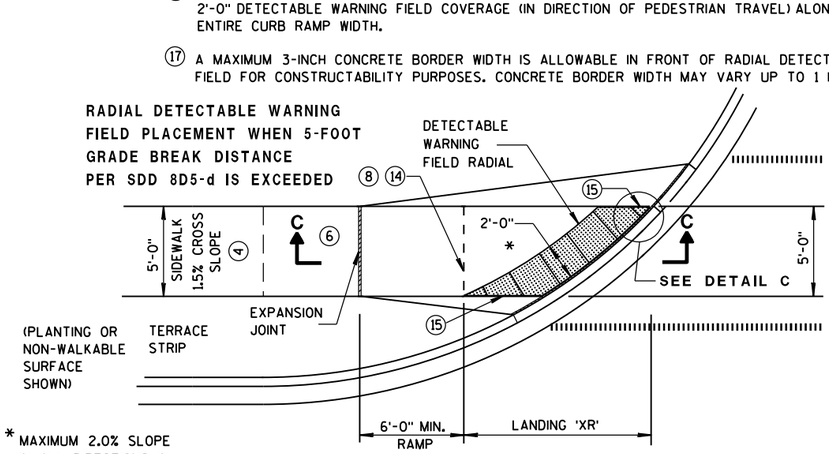
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

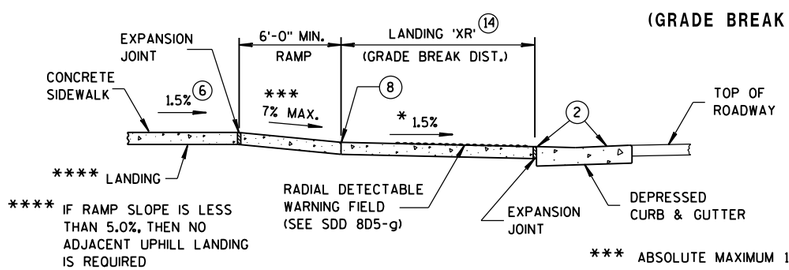
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

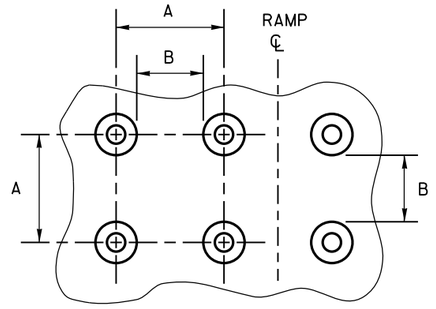
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

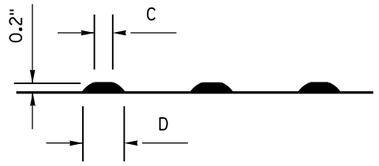
S.D.D. 8 D 5-19f

	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.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

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

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

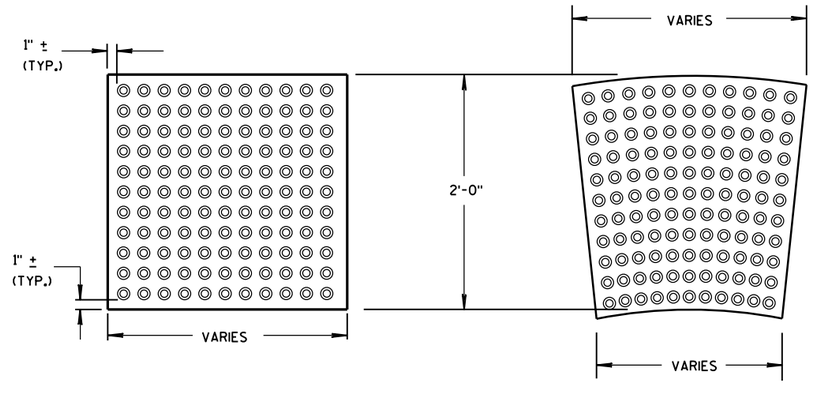
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

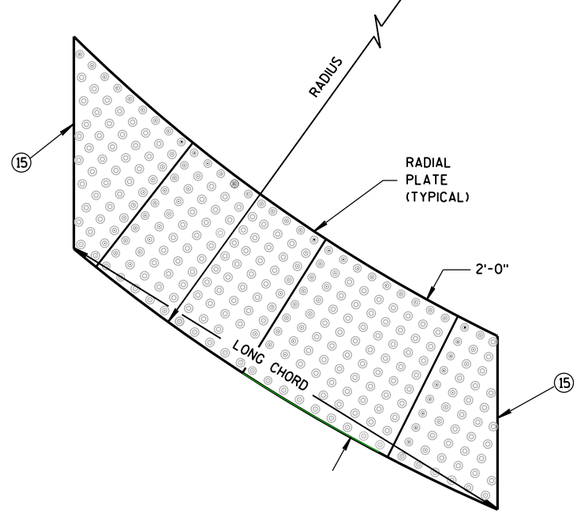


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
ENT
FHWA

6

S.D.D. 8 D 5-19g

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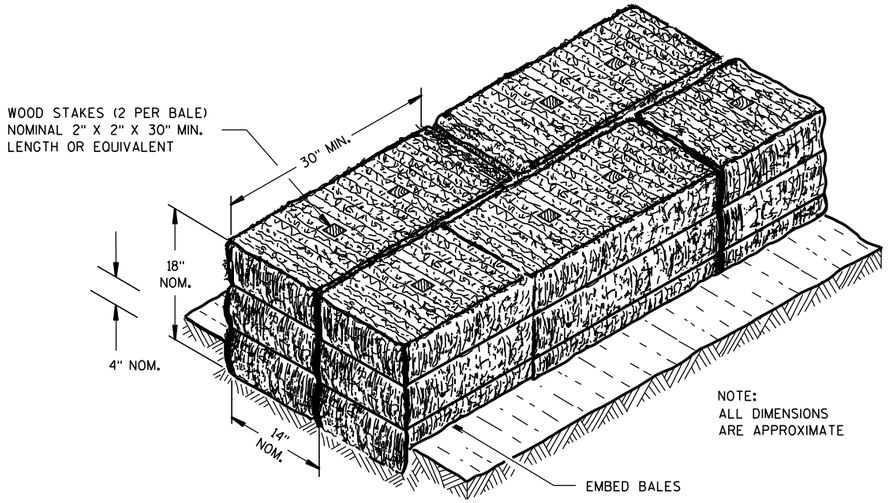
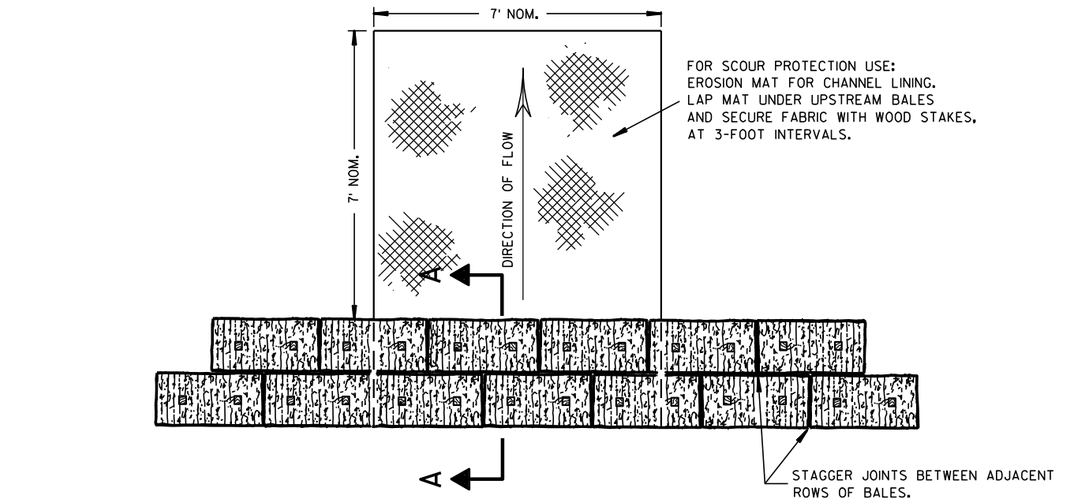
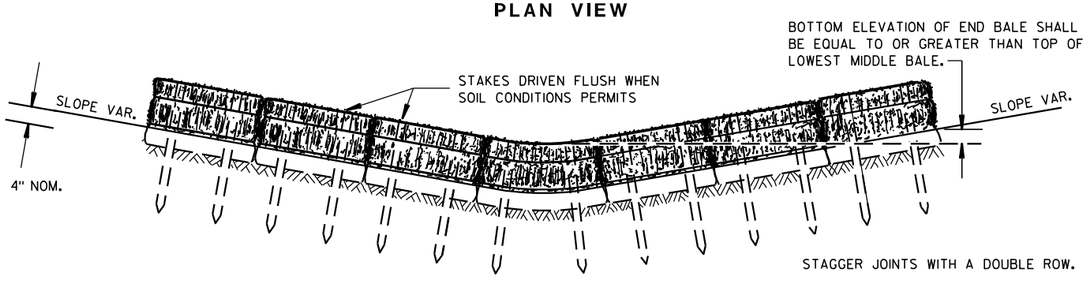
S.D.D. 8 D 5-19g



SECTION A-A



PLAN VIEW



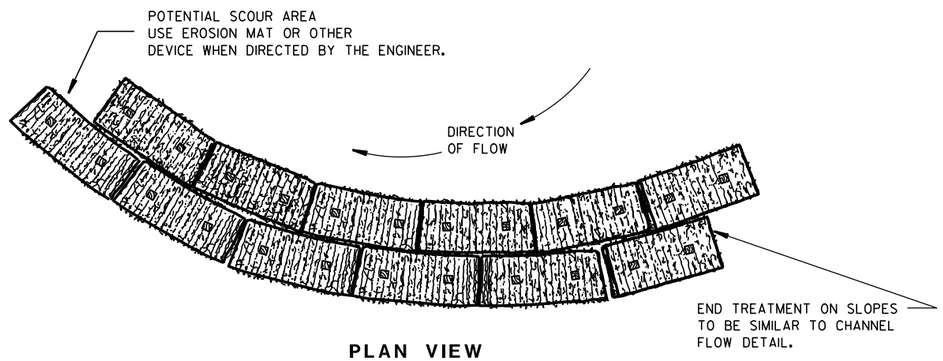
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

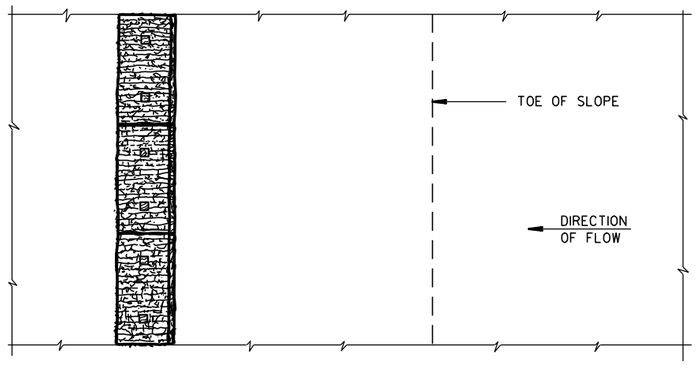
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

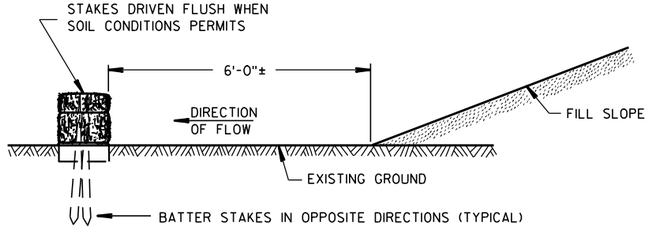


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

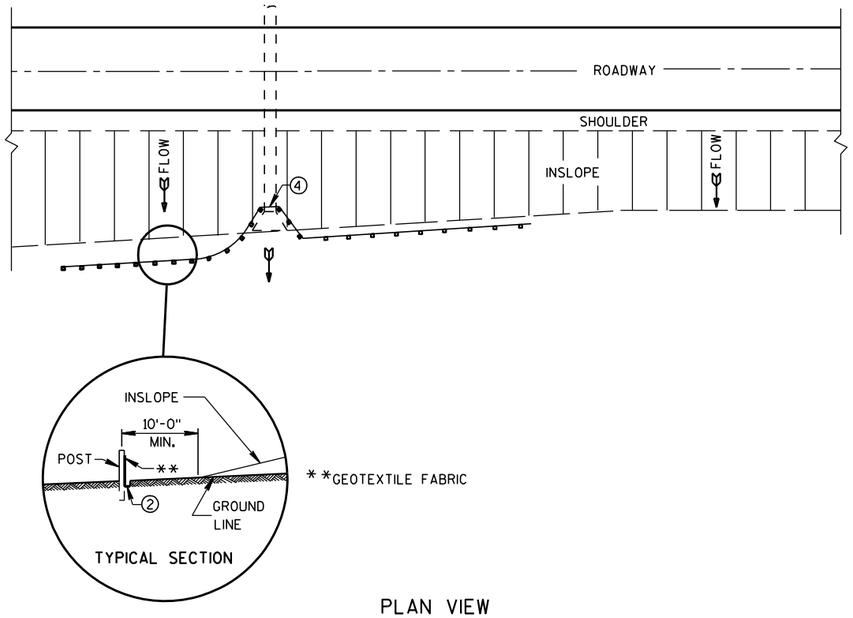
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

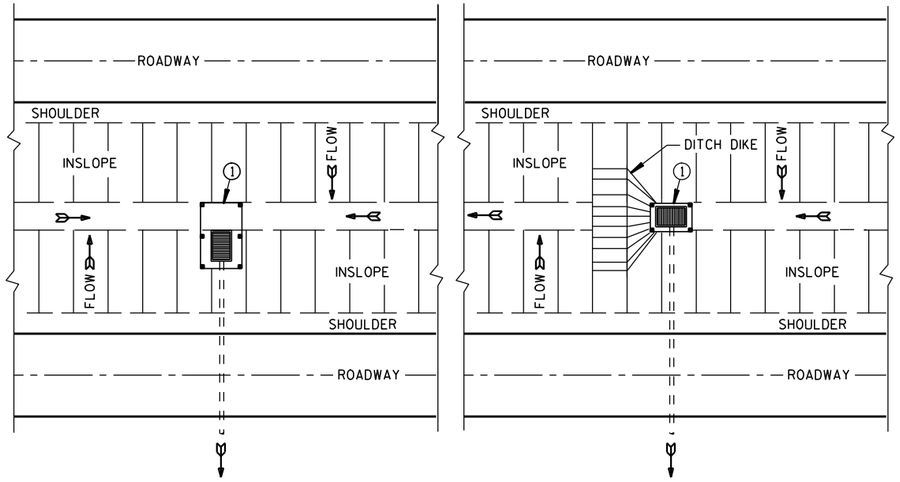
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



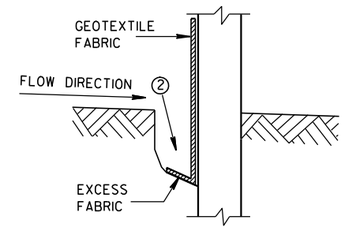
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

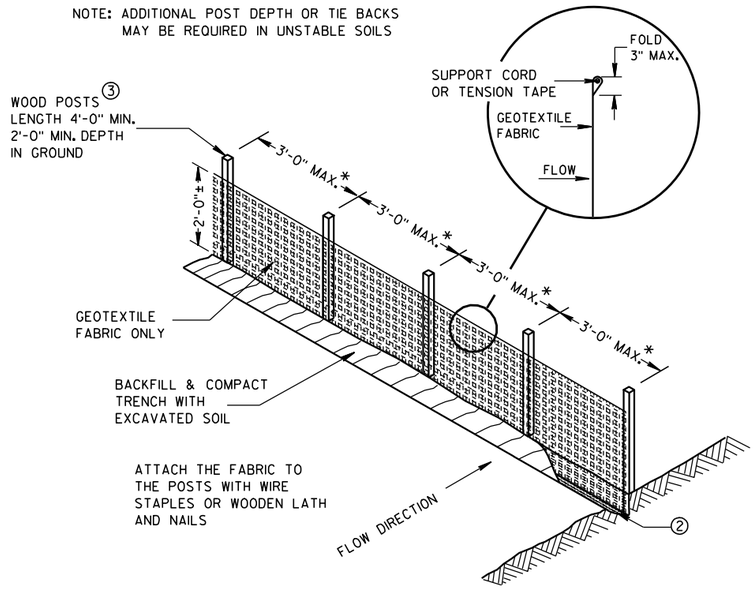
GENERAL NOTES

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

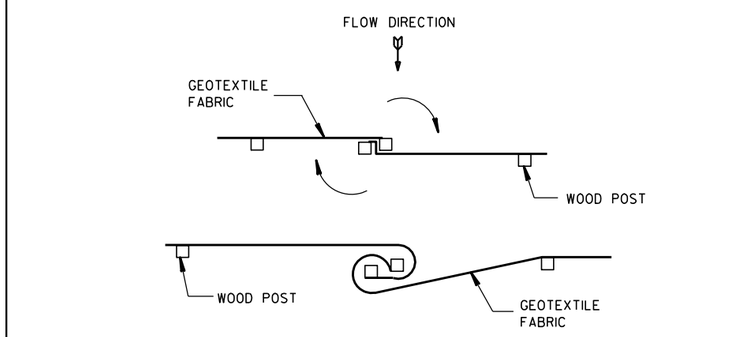
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



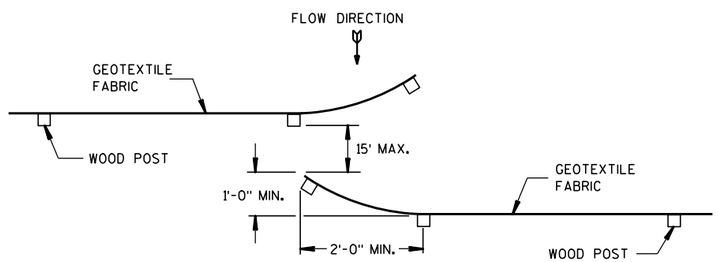
TRENCH DETAIL



SILT FENCE

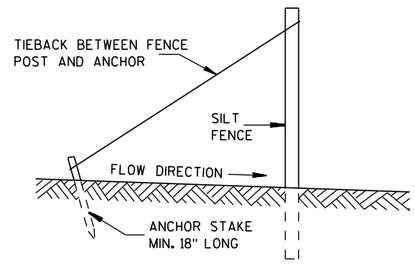


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

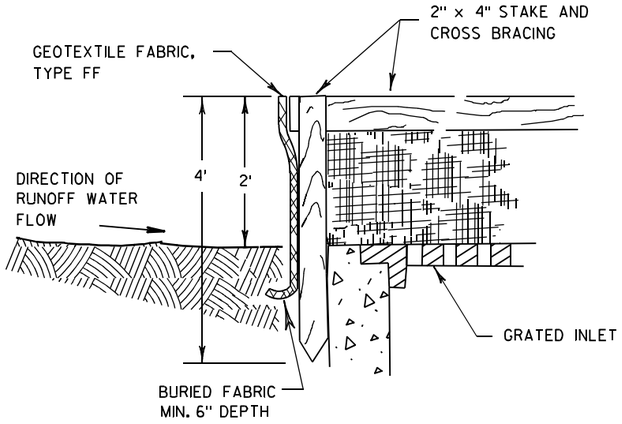
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

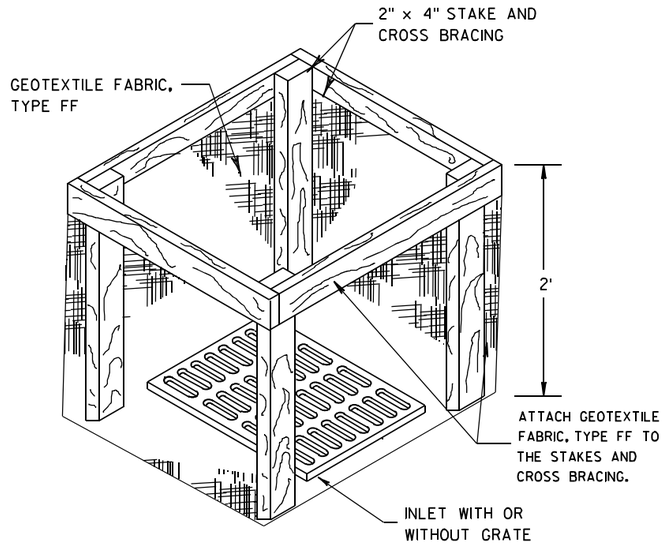
6

S.D.D. 8 E 9-6

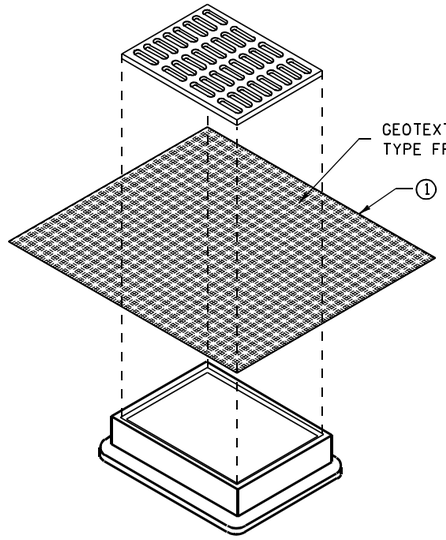
6

S.D.D. 8 E 9-6



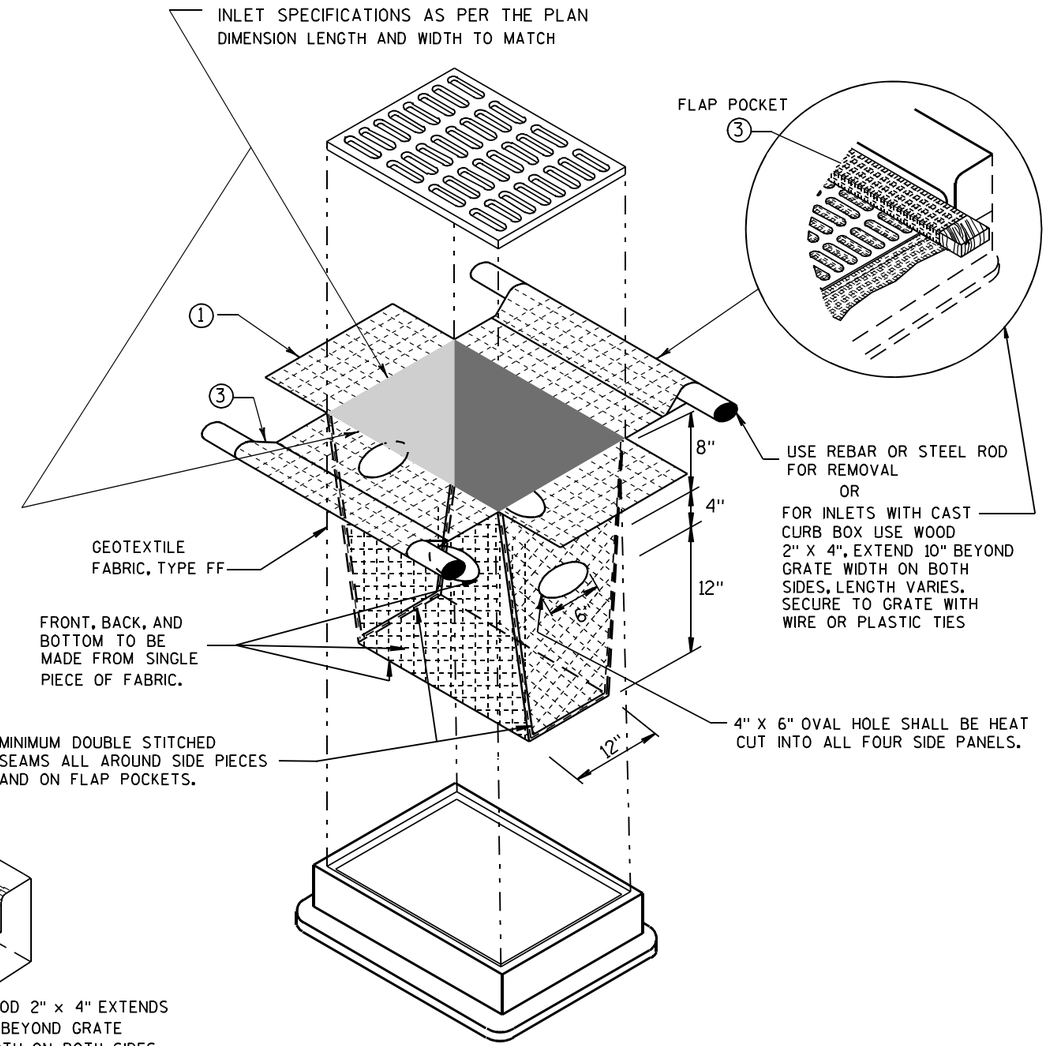


INLET PROTECTION, TYPE A



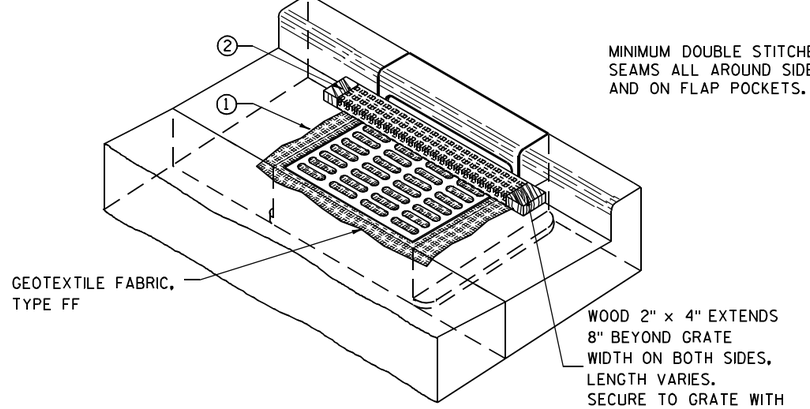
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

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 Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

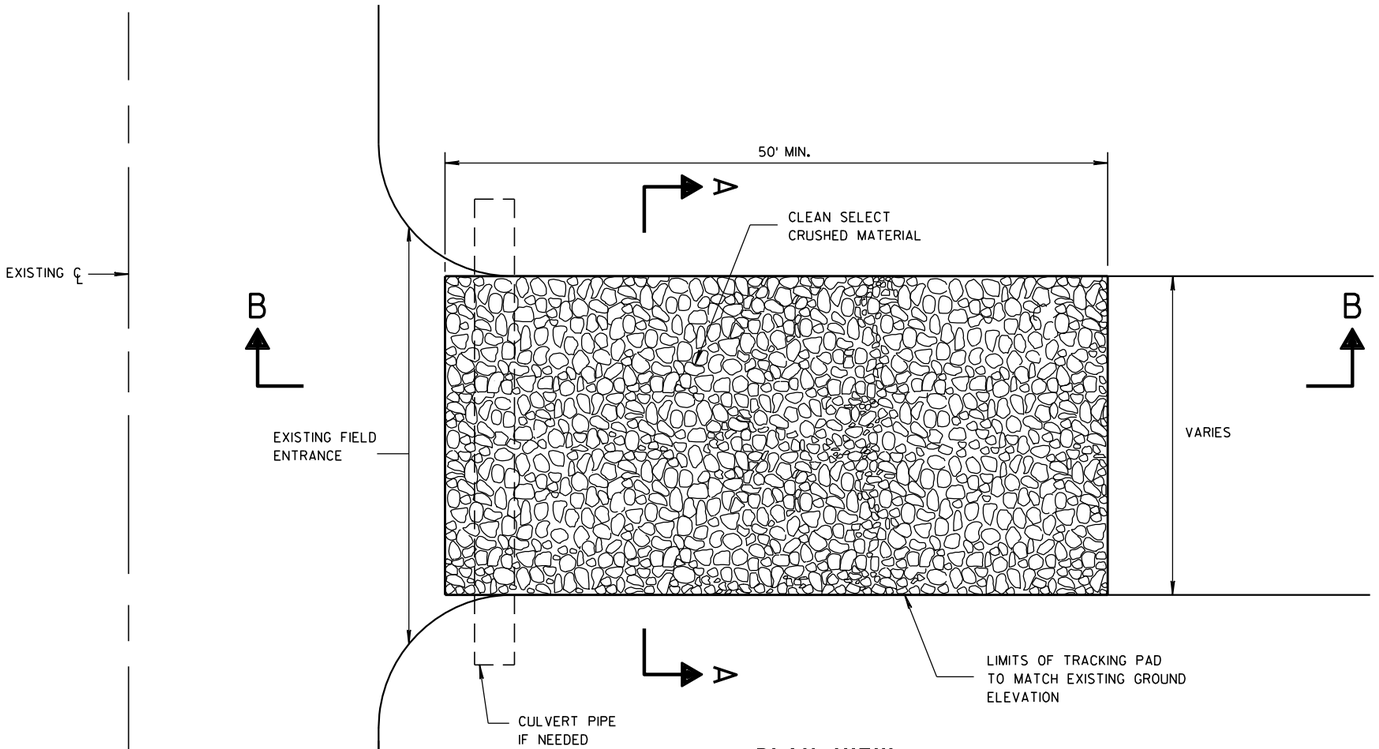
FHWA

6

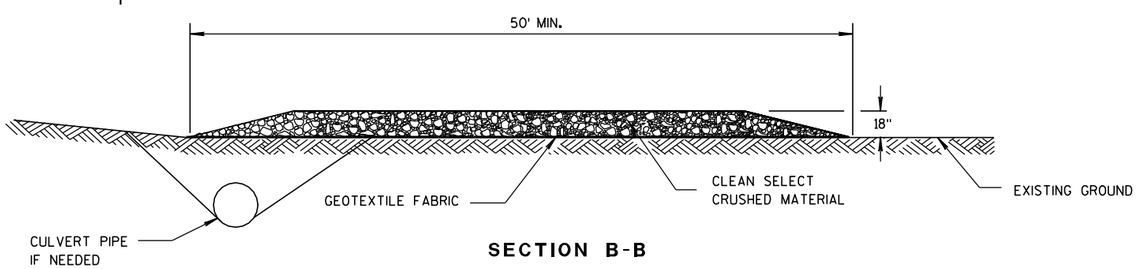
S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



PLAN VIEW



SECTION B-B

GENERAL NOTES

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

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

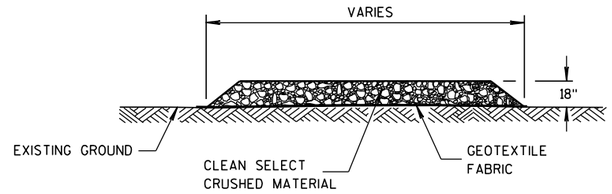
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

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

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

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



SECTION A-A

TRACKING PAD

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER

FHWA

ENT

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

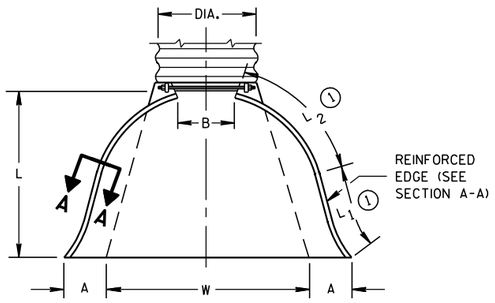
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

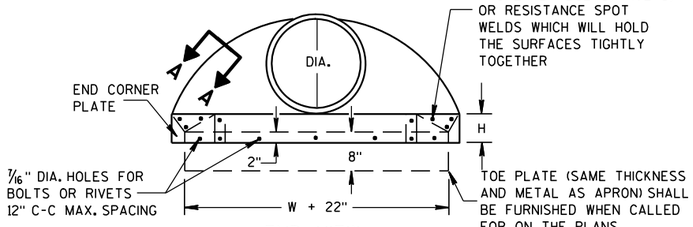
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

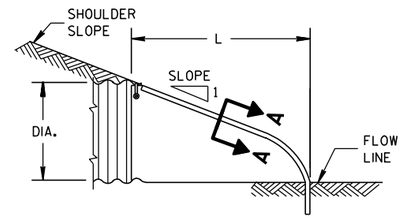
*MINIMUM
**MAXIMUM



PLAN VIEW

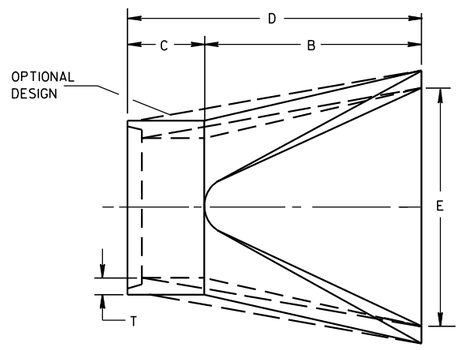


END VIEW

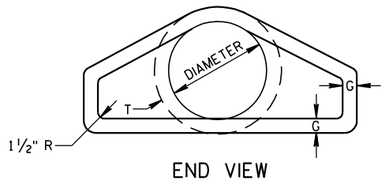


SIDE ELEVATION

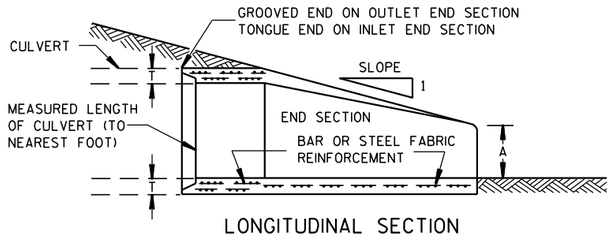
METAL ENDWALLS



PLAN

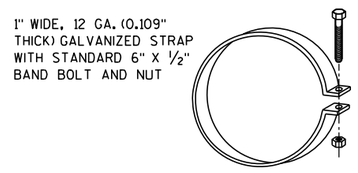


END VIEW



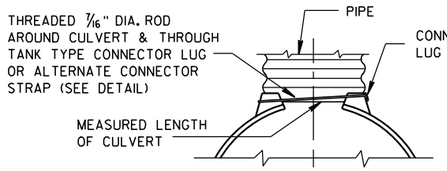
LONGITUDINAL SECTION

CONCRETE ENDWALLS

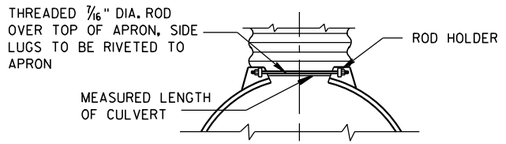


ALTERNATE FOR TYPE 1 CONNECTION

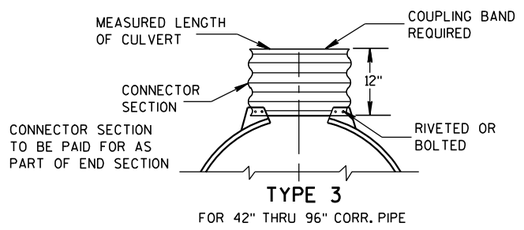
END SECTION CONNECTOR STRAP



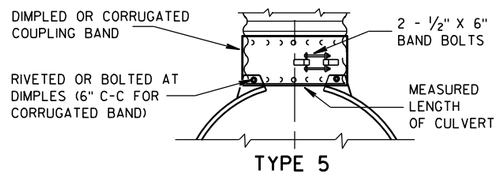
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

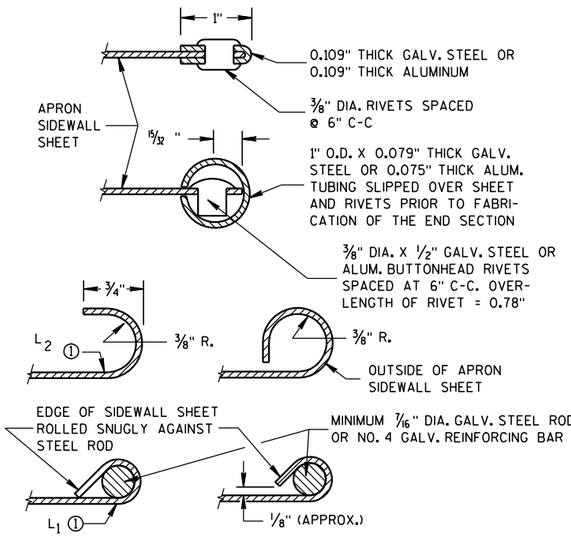
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

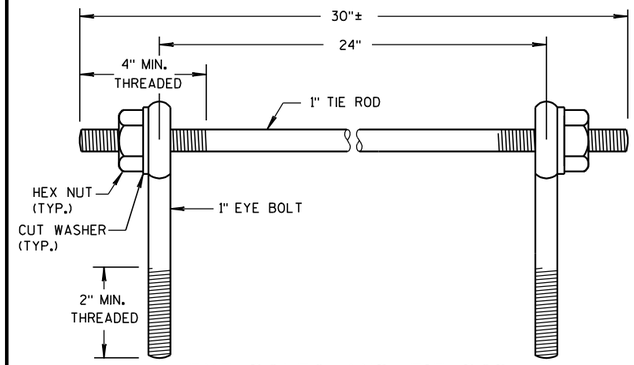
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

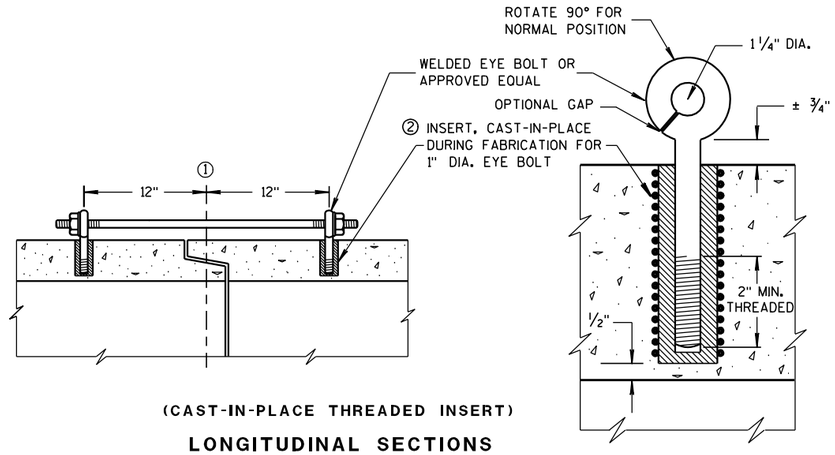
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



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.

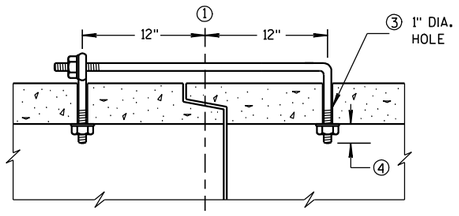
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

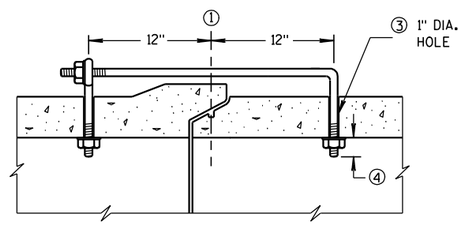
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

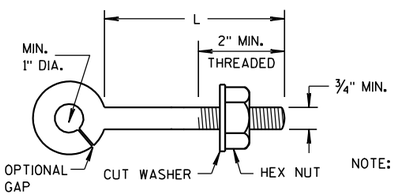


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

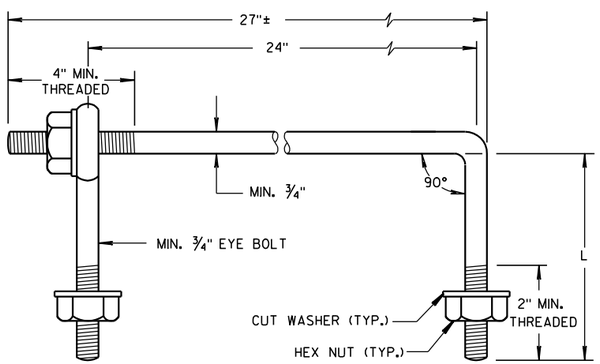
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

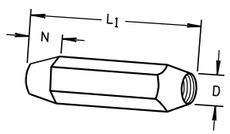
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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 1/16

DIMENSIONS SHOWN ARE IN INCHES



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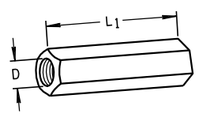
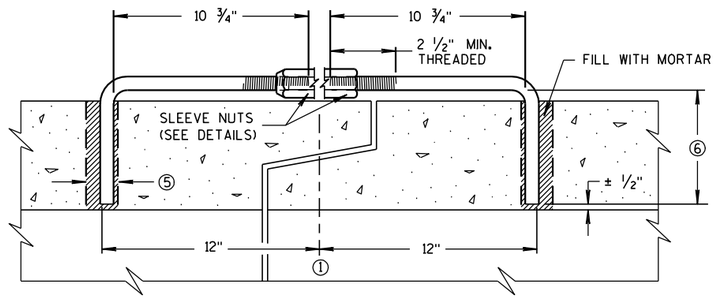


PLAIN

RIGHT AND LEFT THREADS

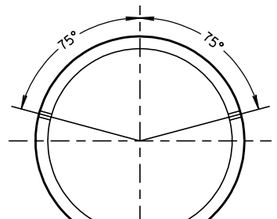
SLEEVE NUTS



LONGITUDINAL SECTION

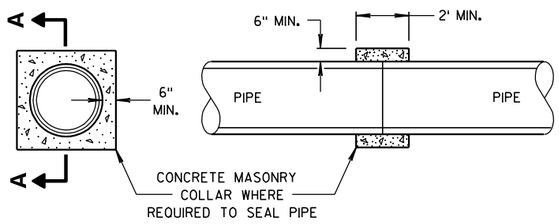
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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 ENGINEER
228
FHWA

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S.D.D. 8 F 4-7

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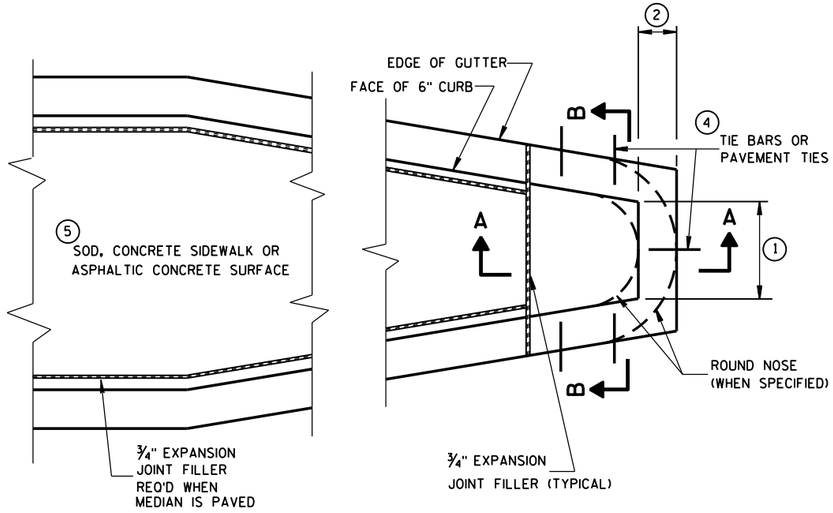
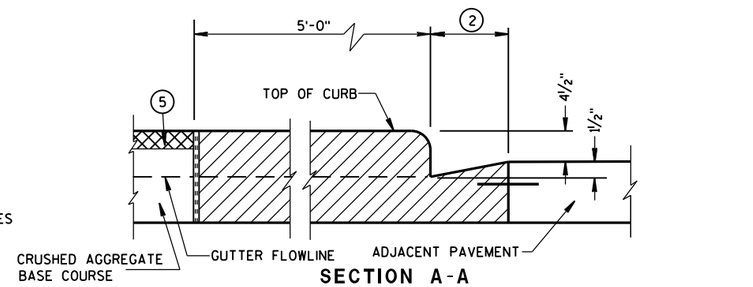
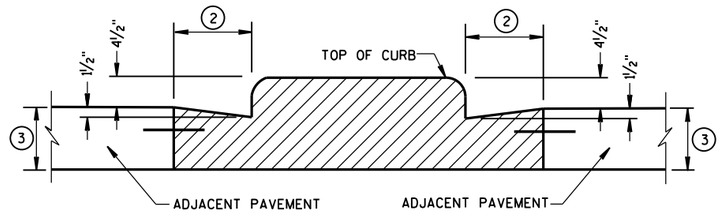






CONCRETE MEDIAN BLUNT NOSE DETAIL

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.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

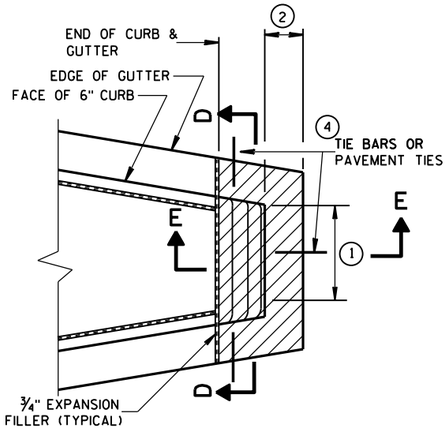
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

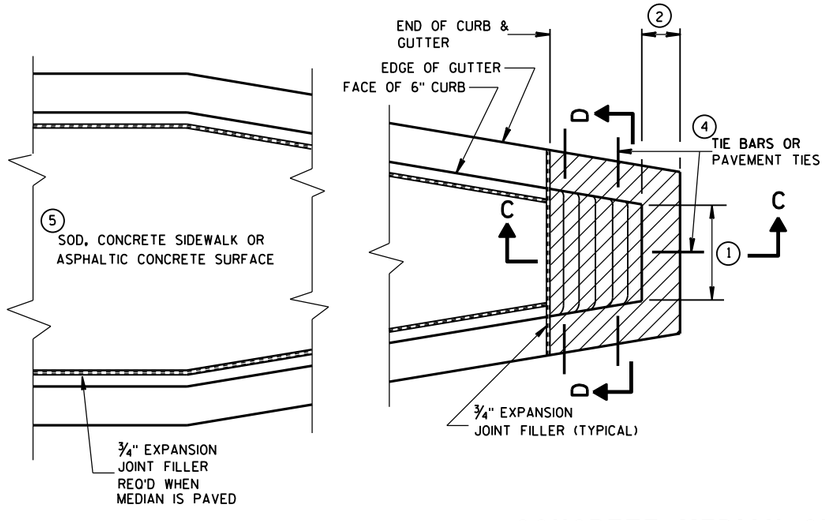
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

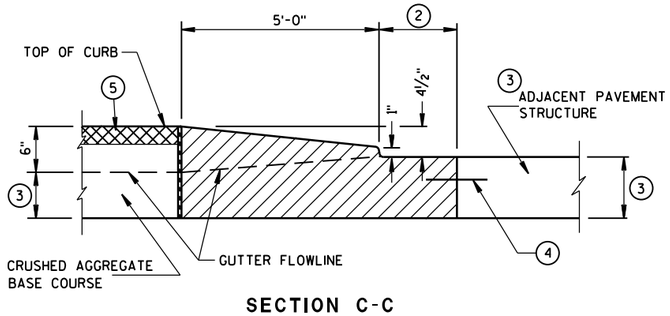
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

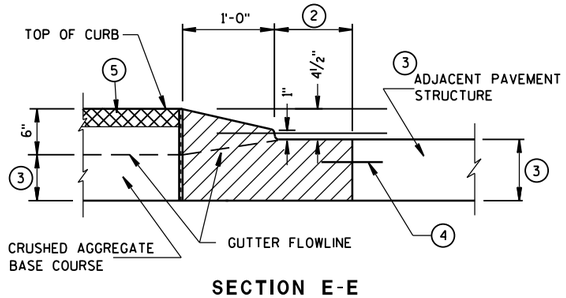
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



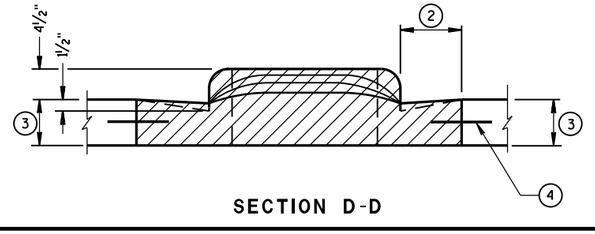






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

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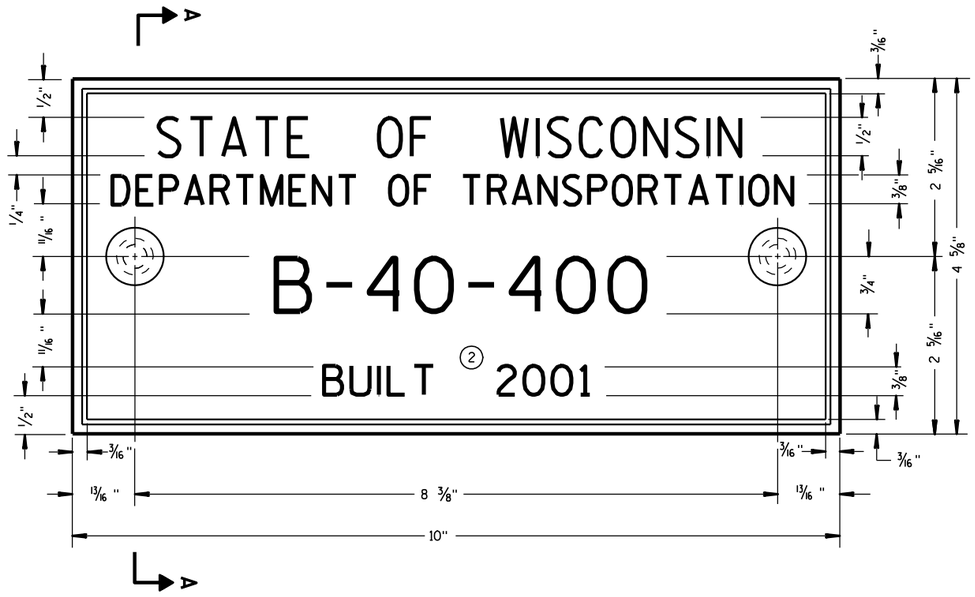
S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

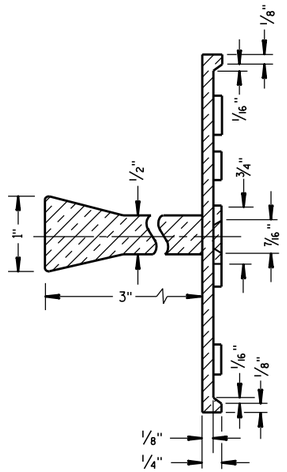
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

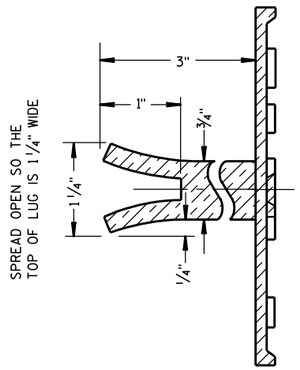
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

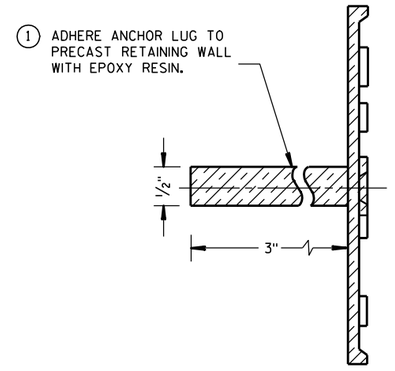
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP 230 ENGINEER

FHWA

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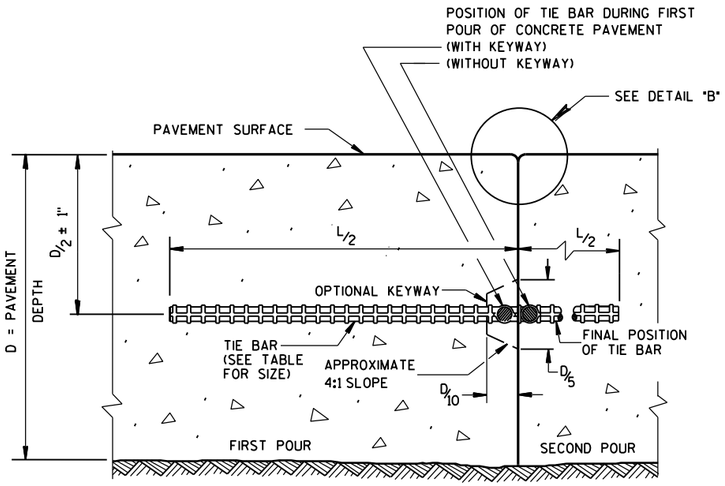
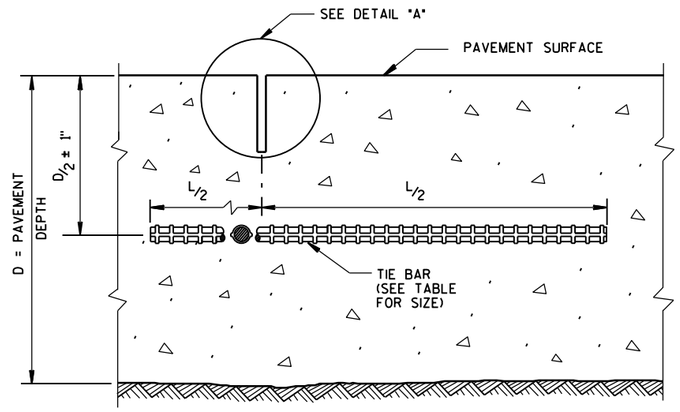
S.D.D. 12 A 3-10



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

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

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

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

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

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

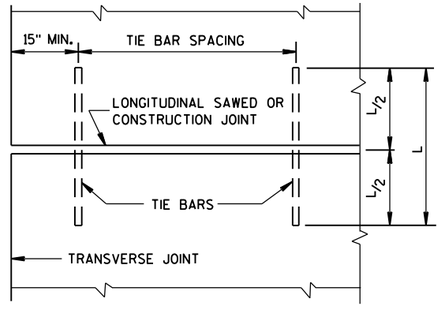
DETAIL "C"

TIE BAR TABLE

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

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

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



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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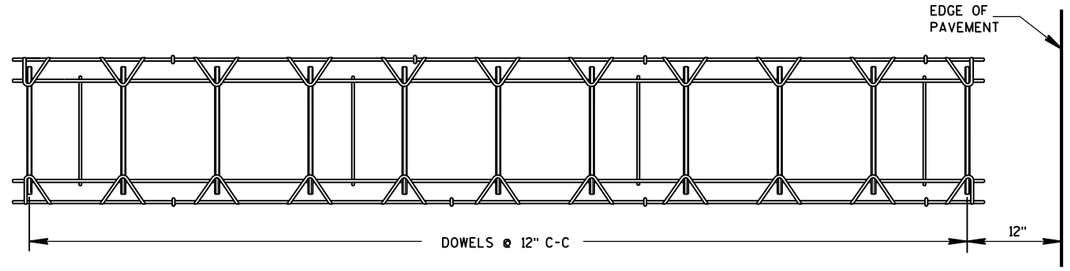
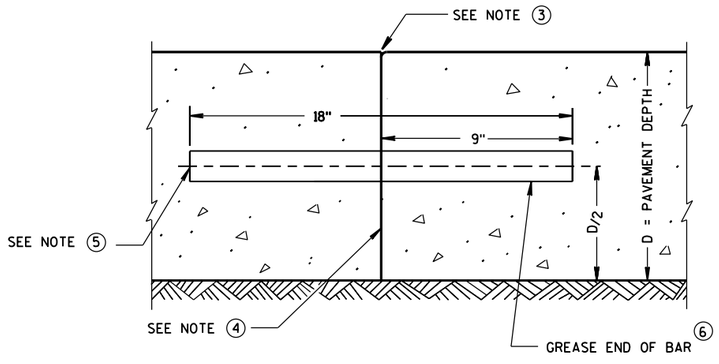
S.D.D. 13 C 1-18



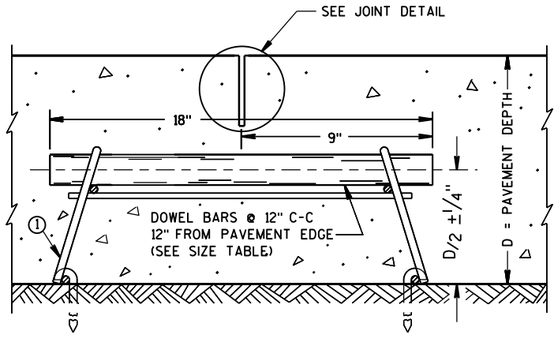
PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



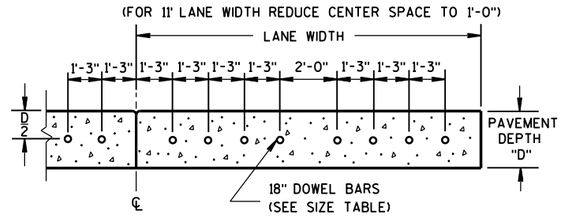
TRANSVERSE CONSTRUCTION JOINT



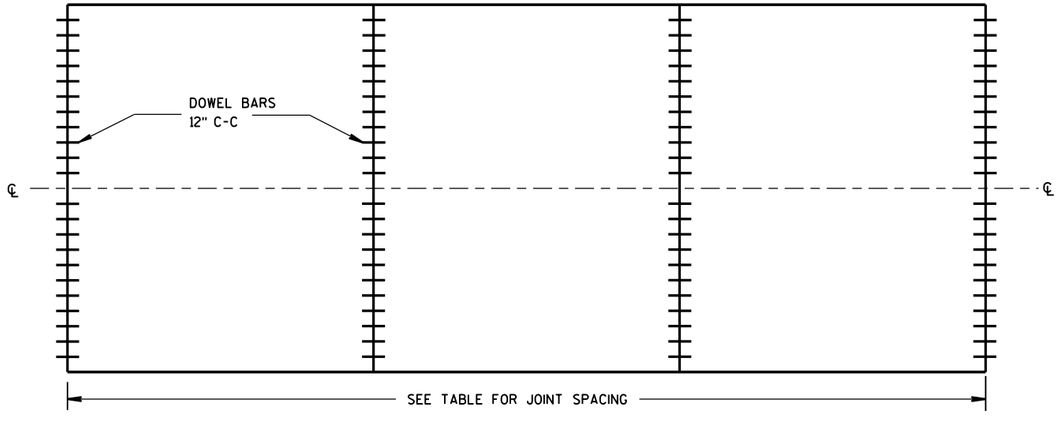
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

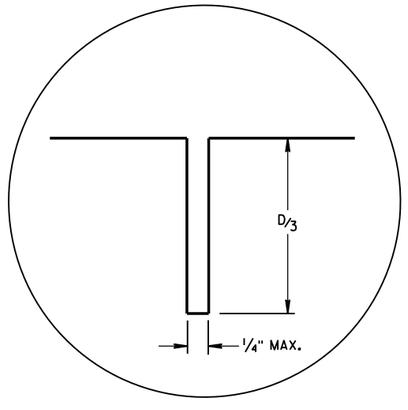
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ...EER
FHWA

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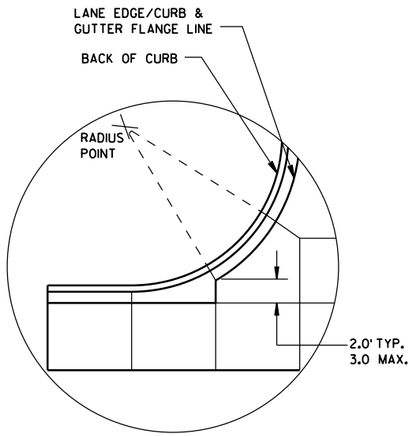
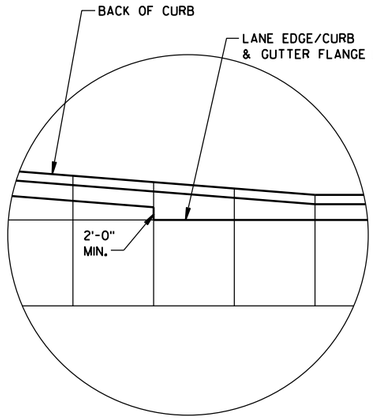
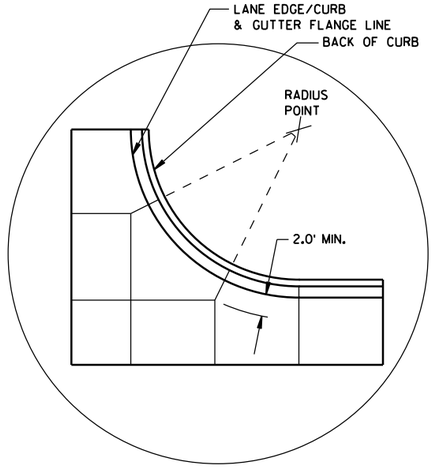
S.D.D. 13 C 13-8



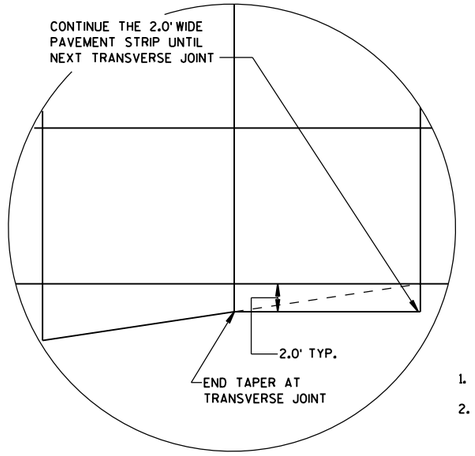
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

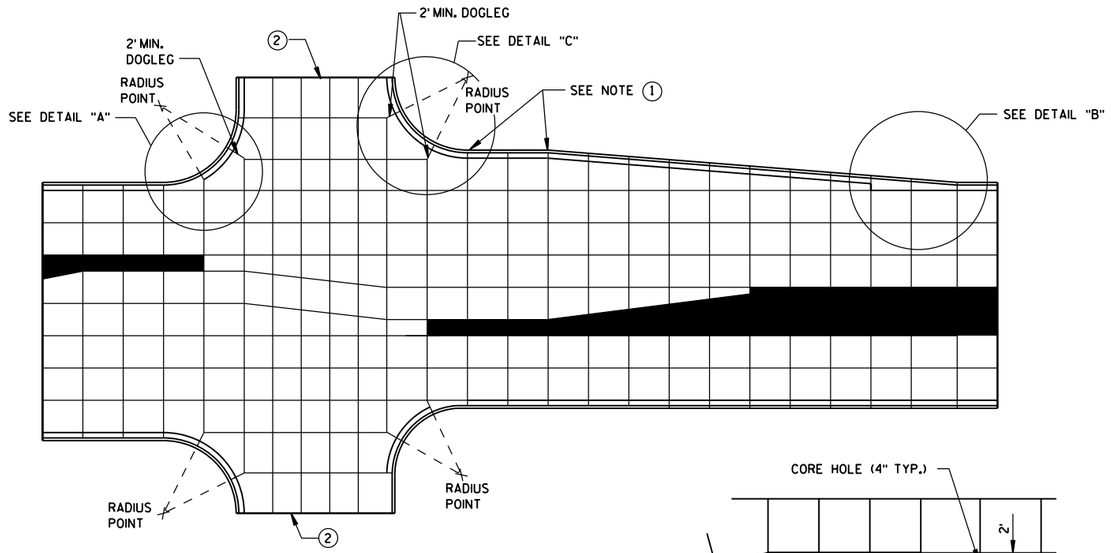
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

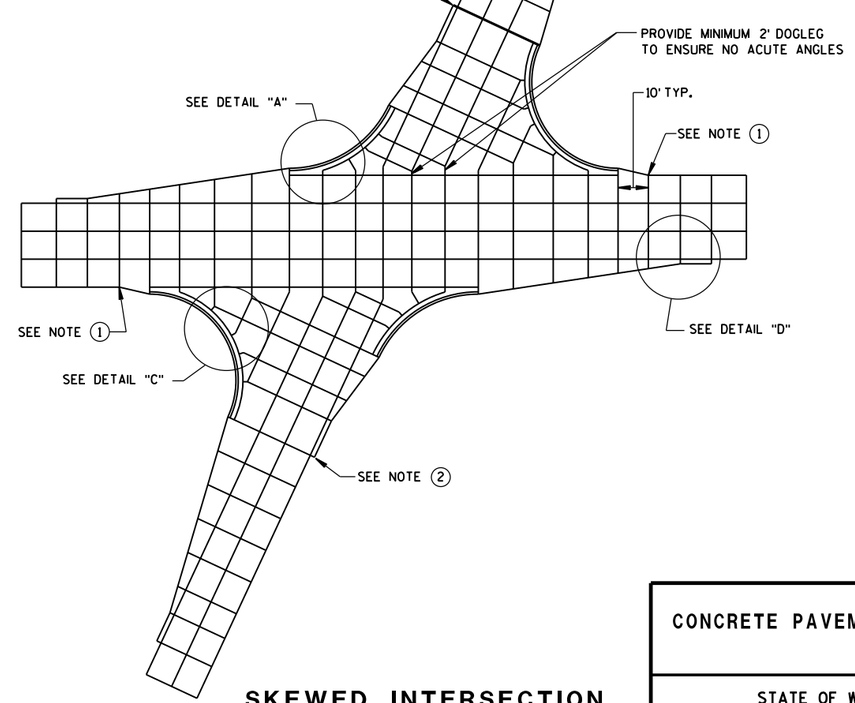
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



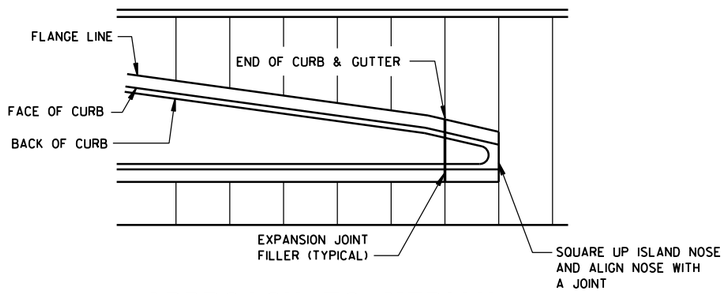
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

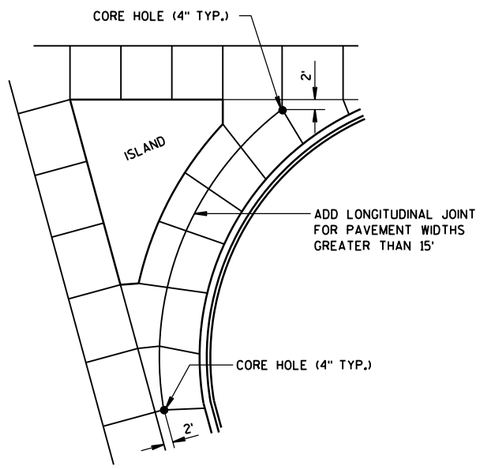
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

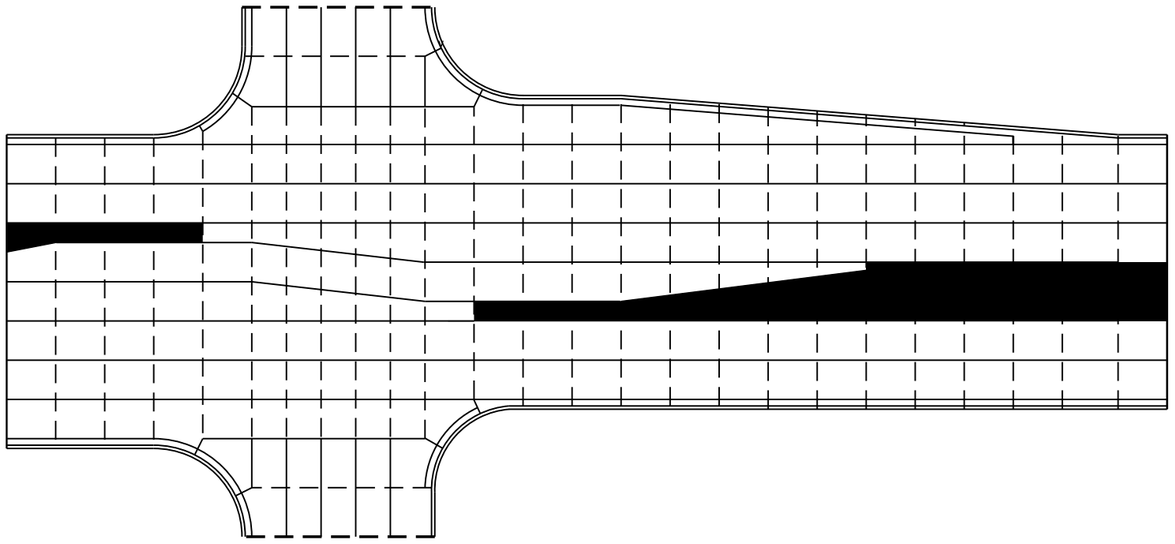
6
S.D.D. 13 C 18-5a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

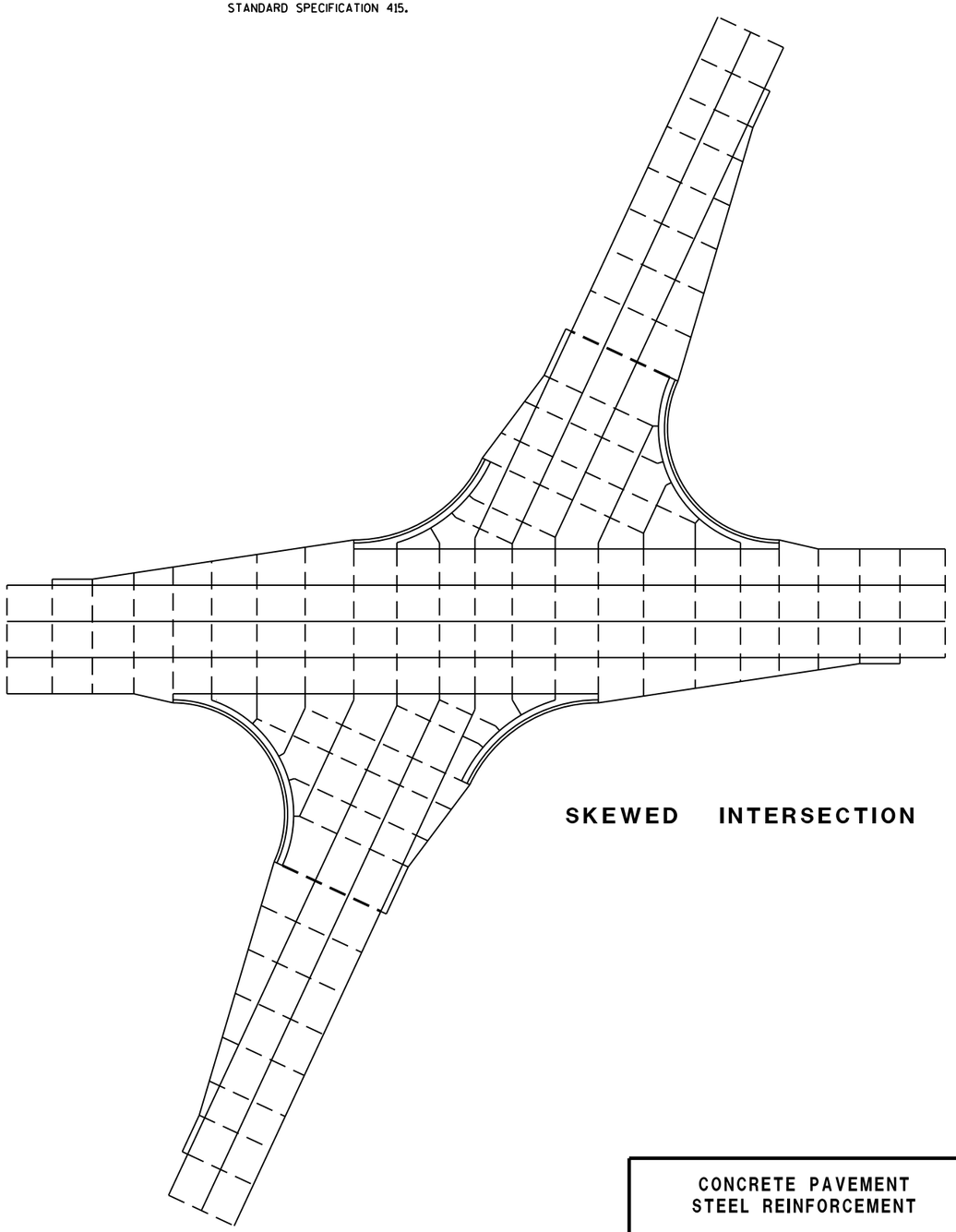
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

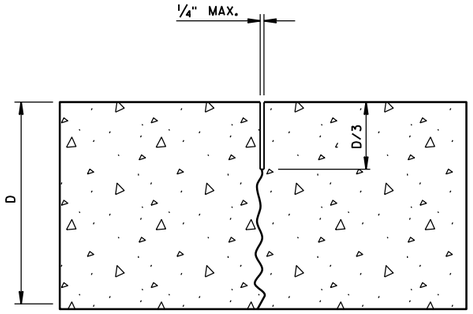
S.D.D. 13 C 18-5b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

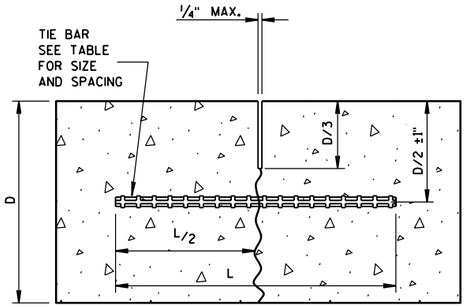
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 C 18-5b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

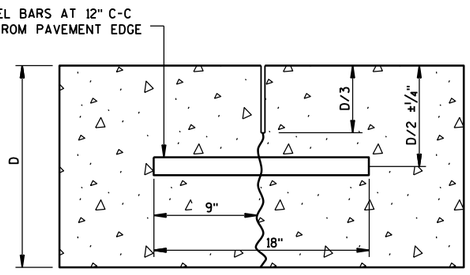
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

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

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

GENERAL NOTES

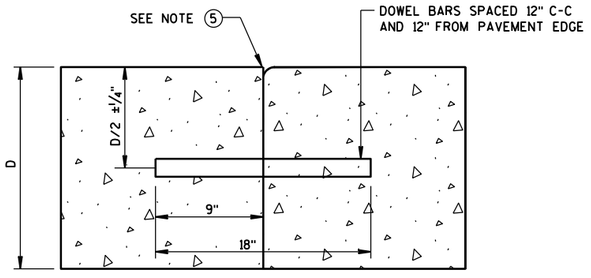
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



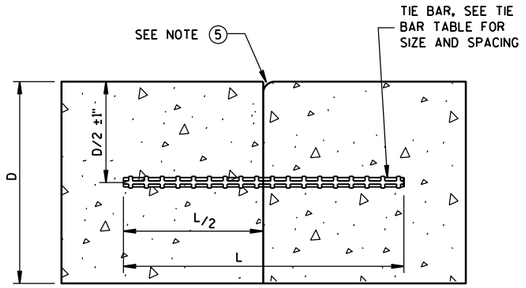
DOWELED-TRANSVERSE

CONTRACTION JOINTS

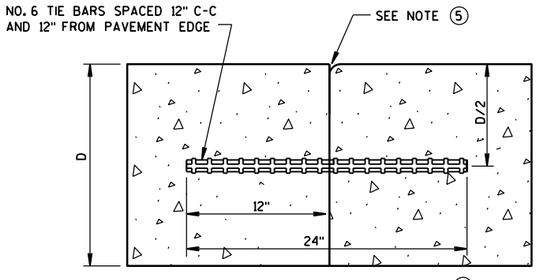
SEE NOTE (2)



DOWELED TRANSVERSE (3)

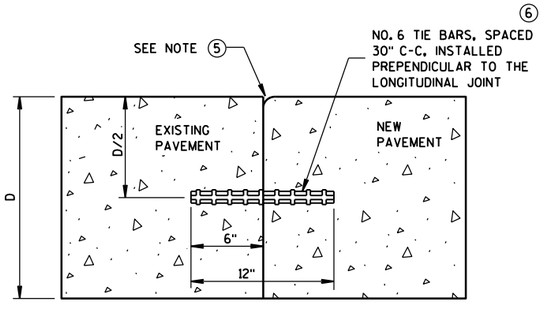


TIED LONGITUDINAL



TIED TRANSVERSE (3)

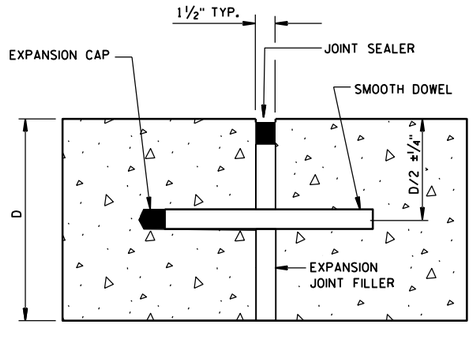
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

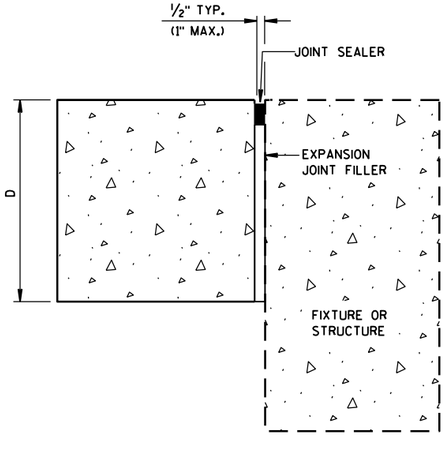
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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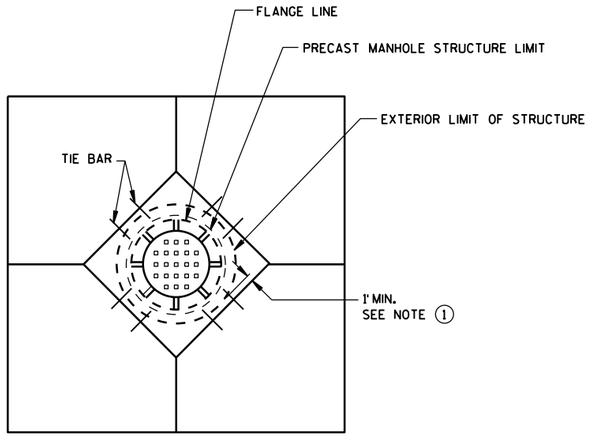
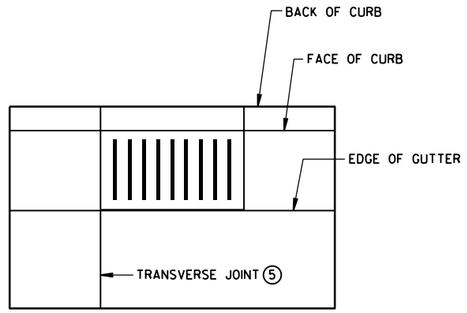
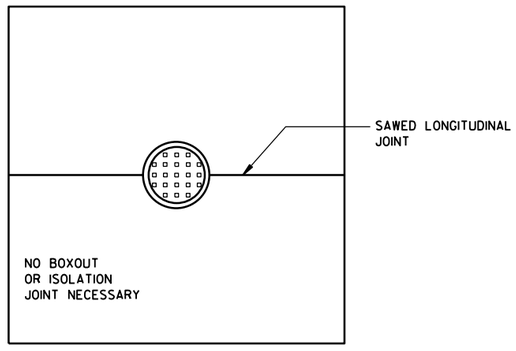
S.D.D. 13 C 18-5c



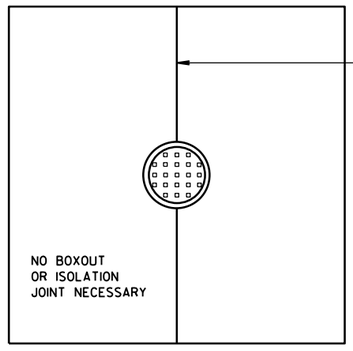
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



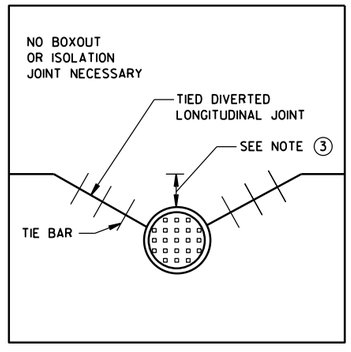
INLET WITH TRANSVERSE JOINT



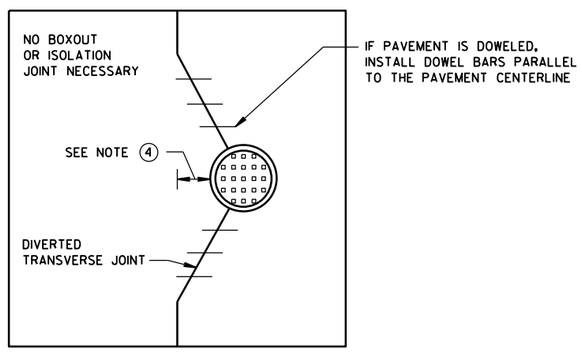
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Peter Kemp, P.E.
DATE — PAVEMENT SUPEF
FHWA

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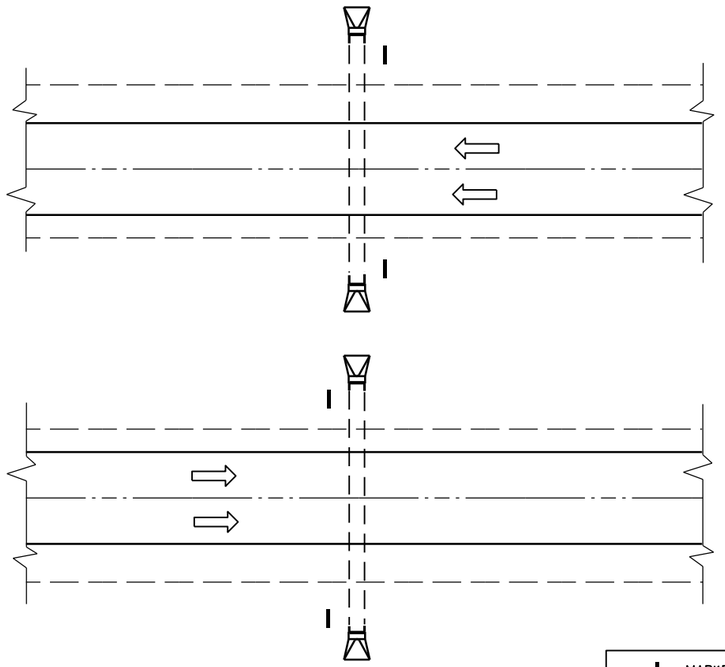
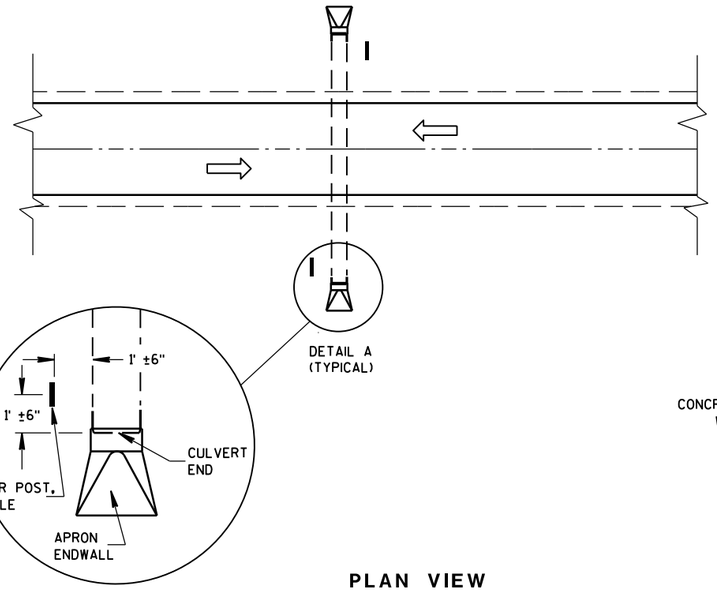


PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

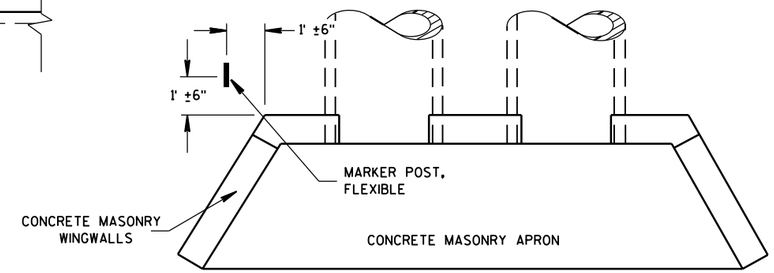
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

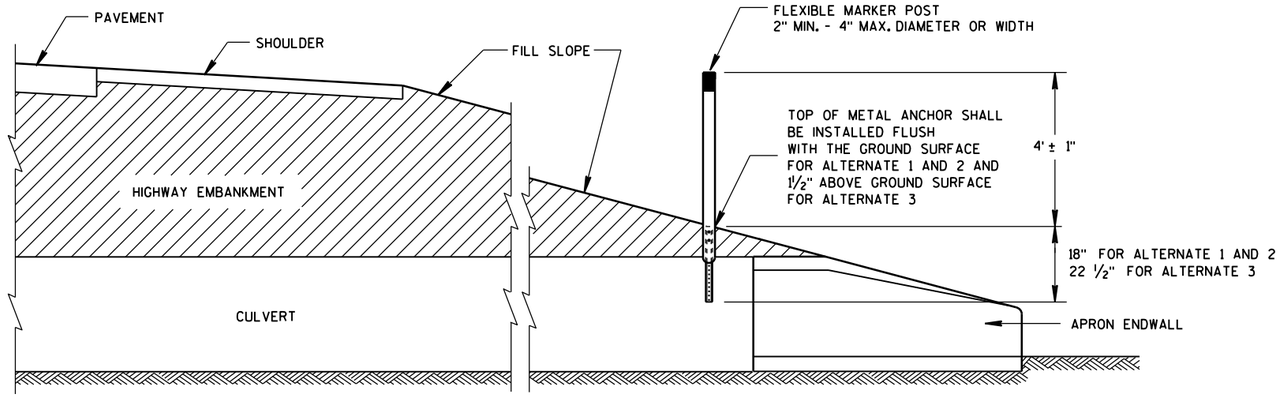
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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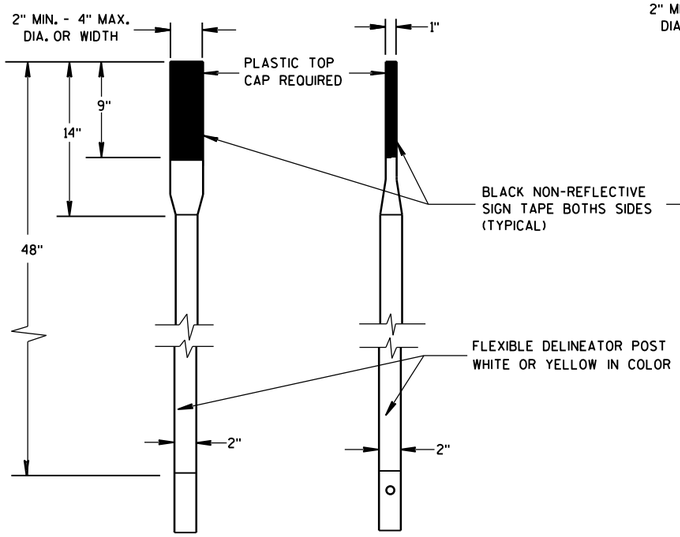
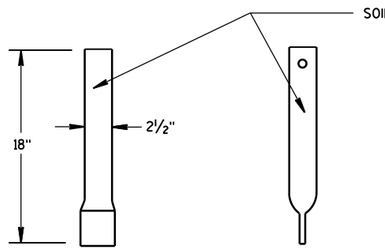
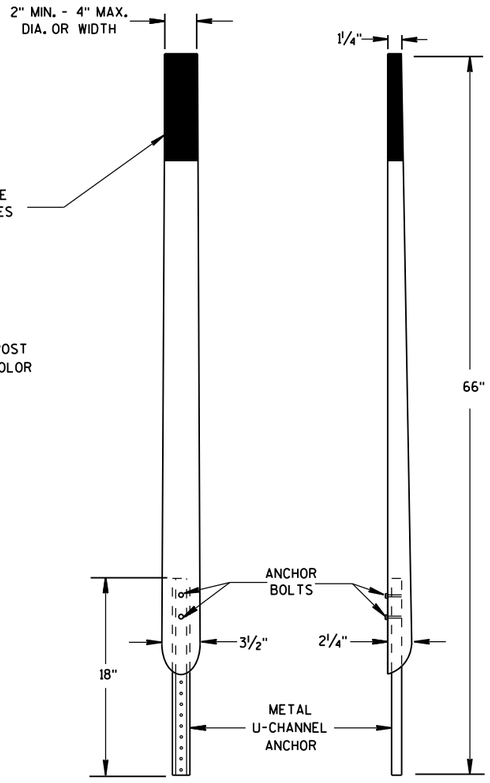
S.D.D. 15 A 3-2a





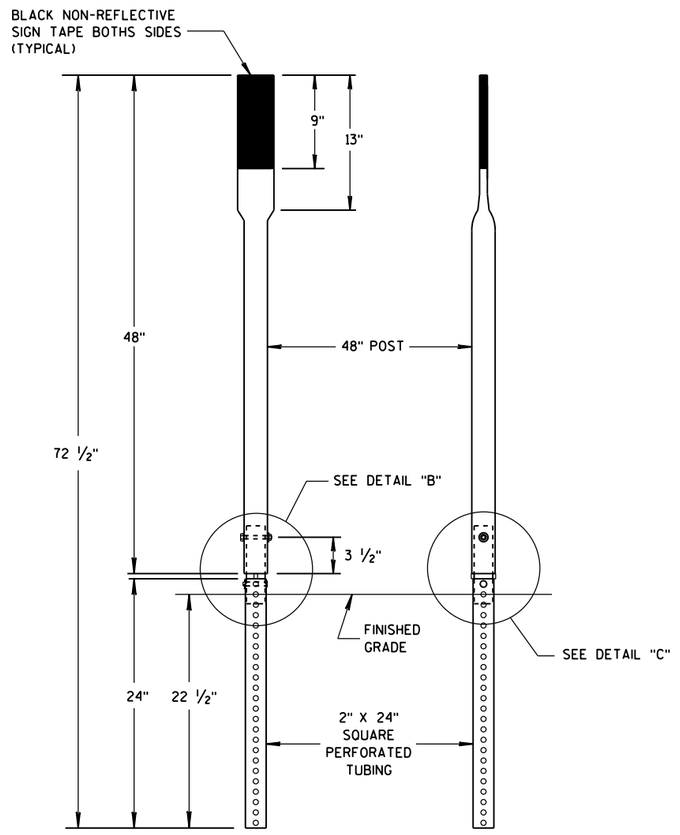
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

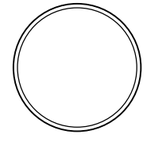
ALTERNATE 2



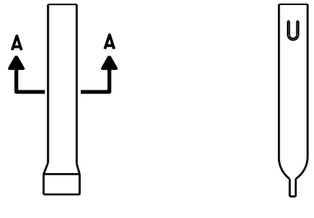
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

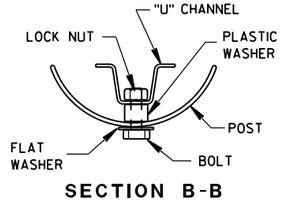


SECTION A-A



FRONT VIEW SIDE VIEW

ALTERNATE 1



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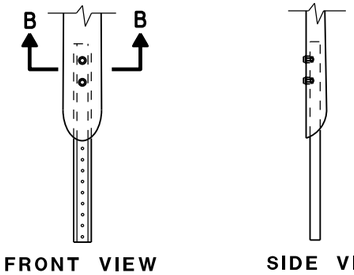
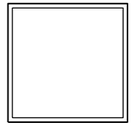
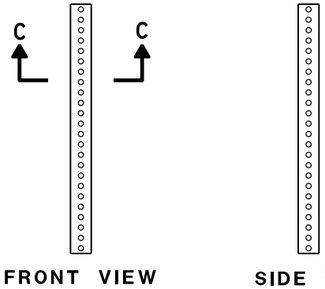


FRONT VIEW SIDE VIEW

ALTERNATE 2



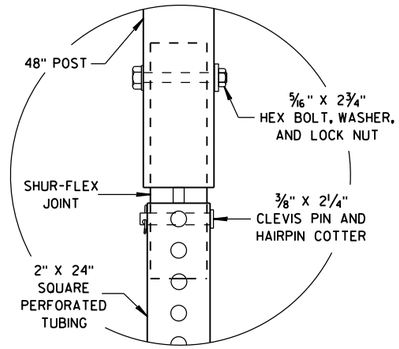
SECTION C-C



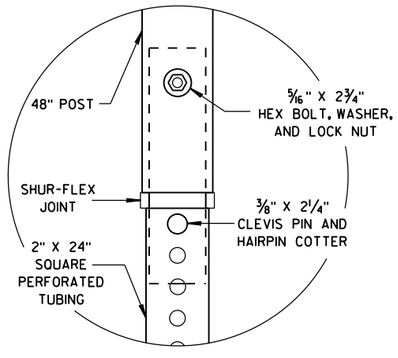
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

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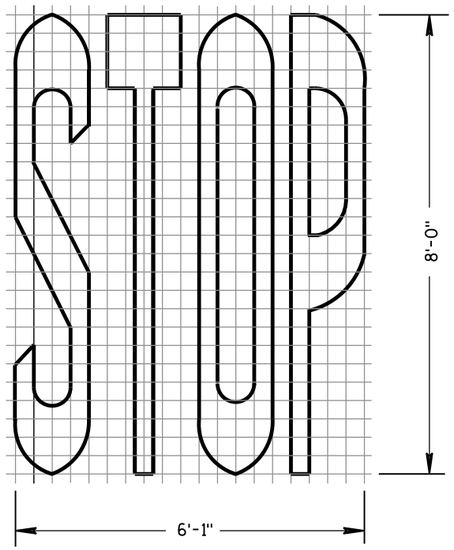
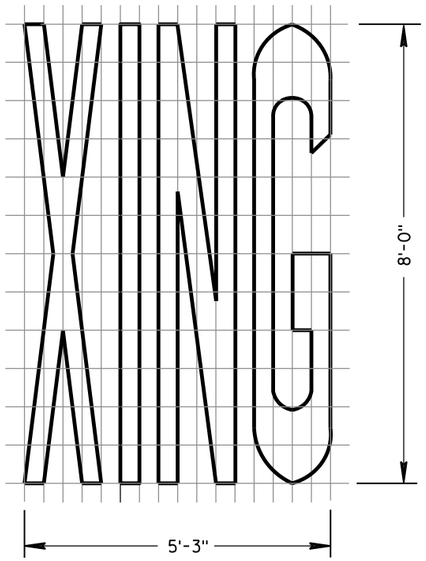
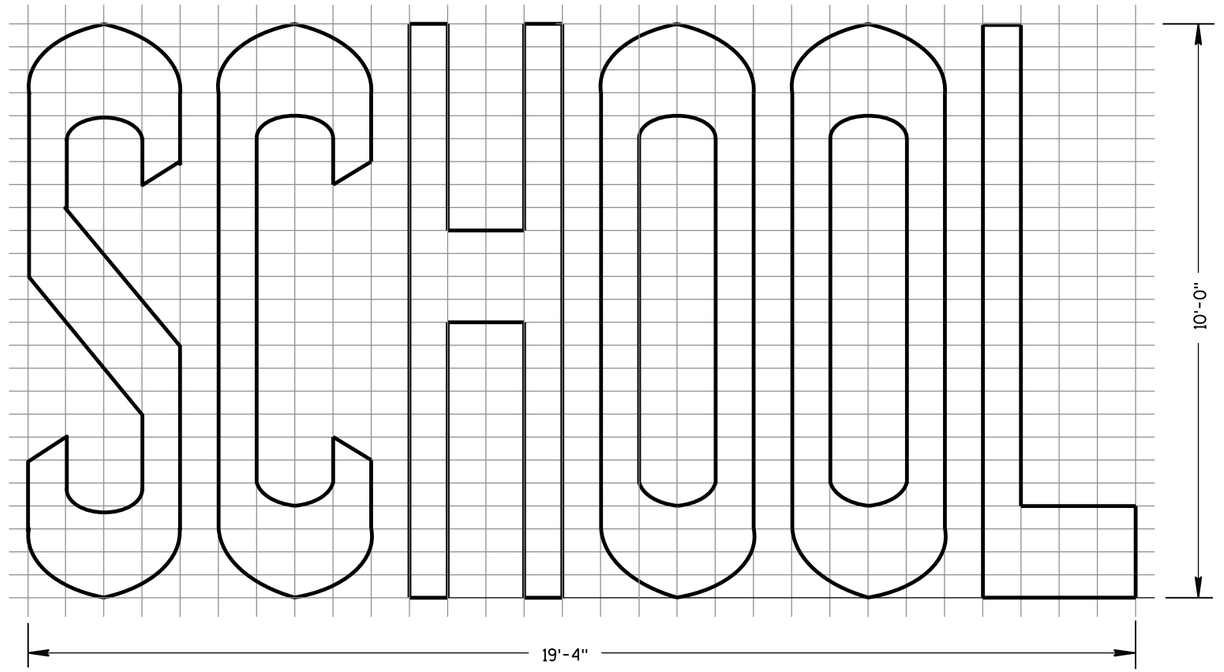
S.D.D. 15 A 3-2b

GENERAL NOTES

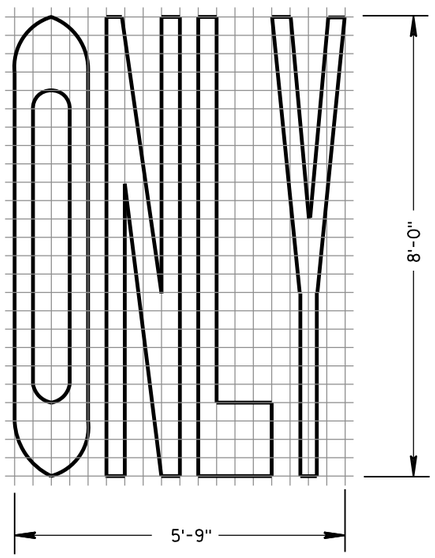
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

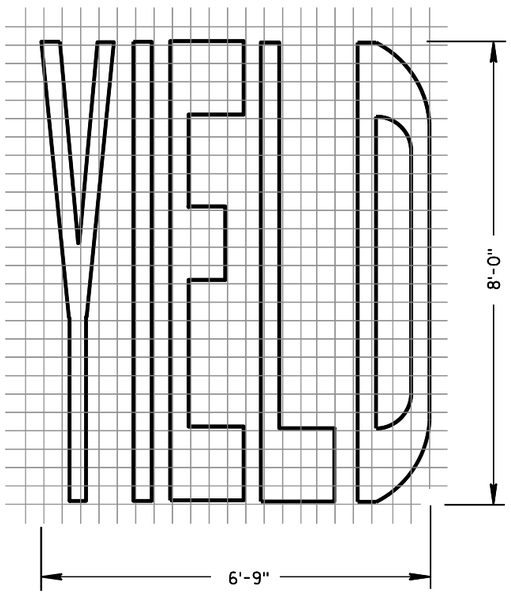


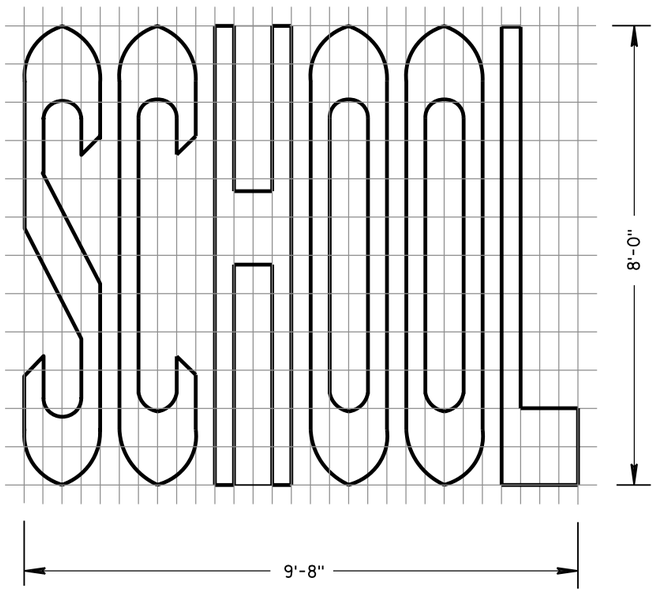




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
239
EER
FHWA

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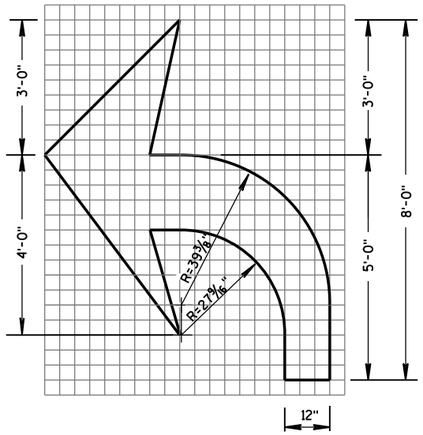
S.D.D. 15 C 7-14b

GENERAL NOTES

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



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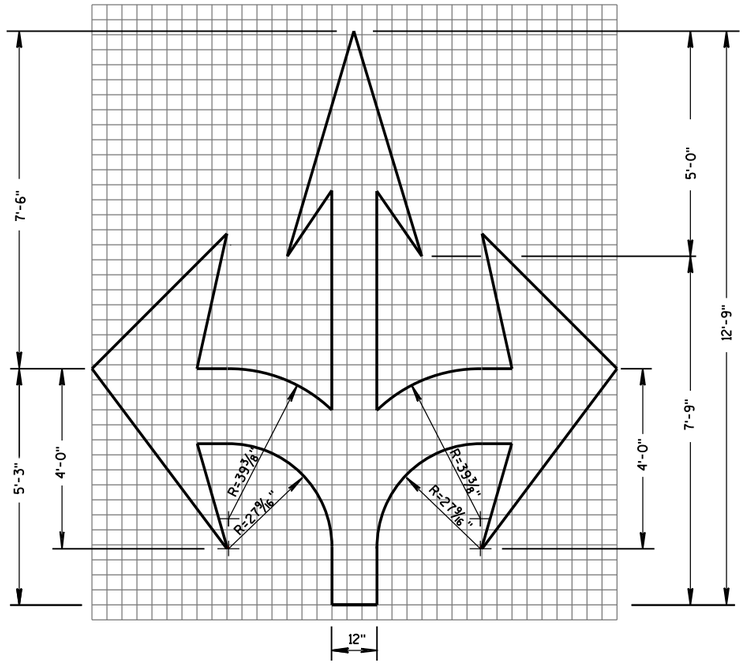
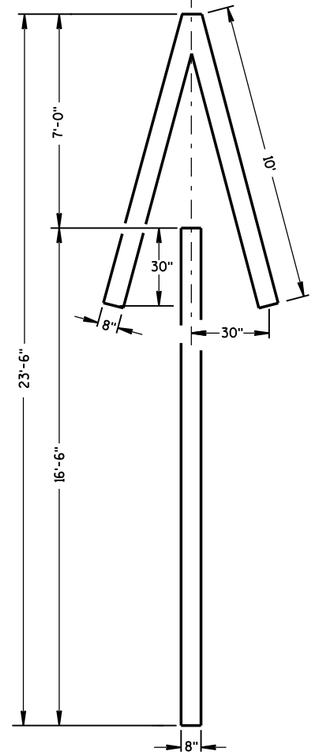


TYPE 6



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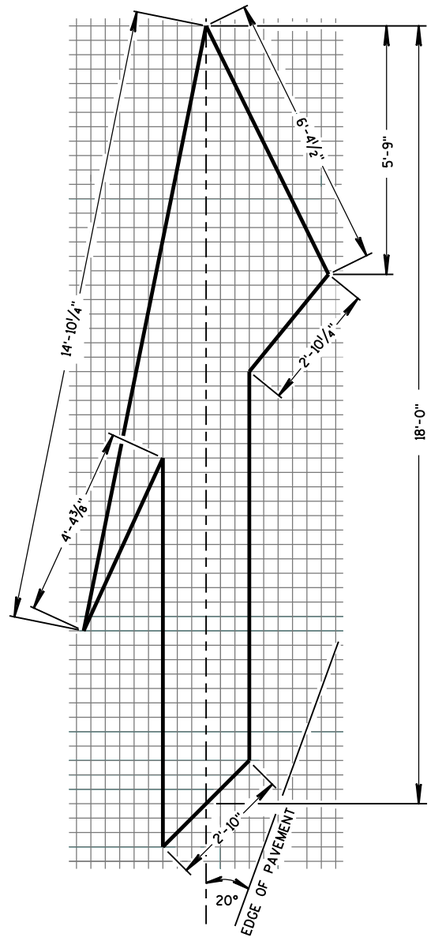
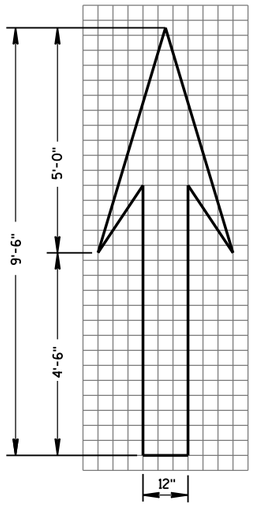
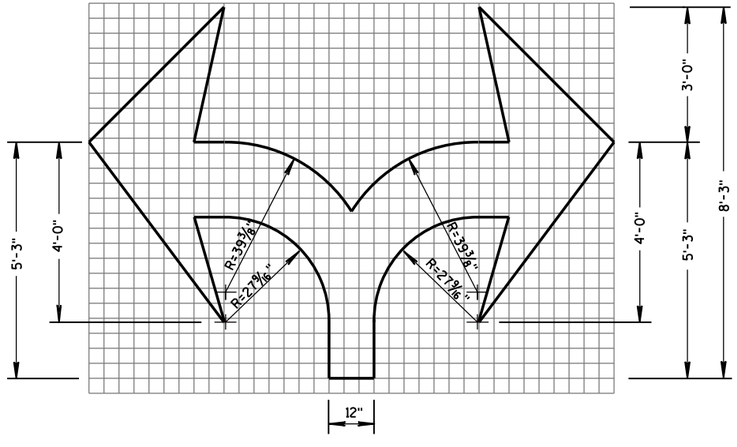


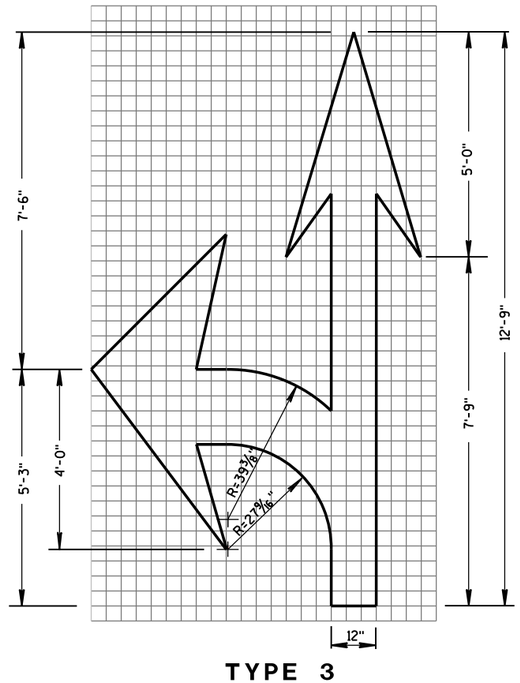
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

240

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S.D.D. 15 C 7-14c

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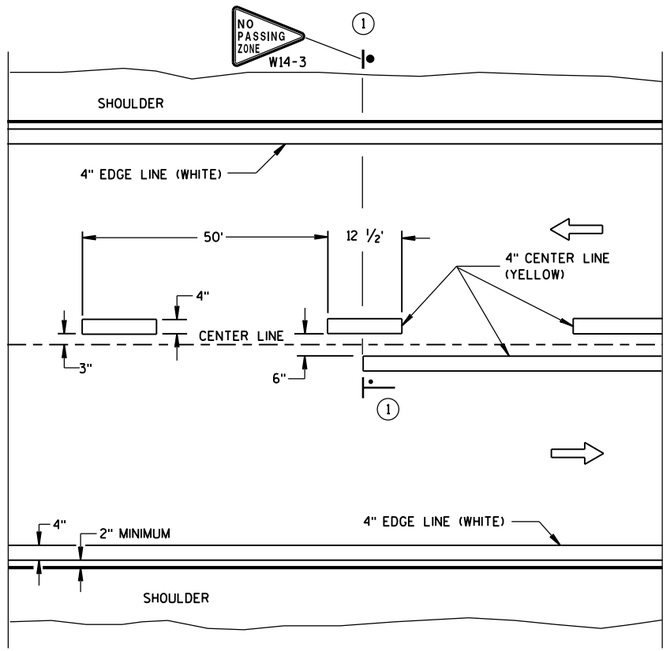
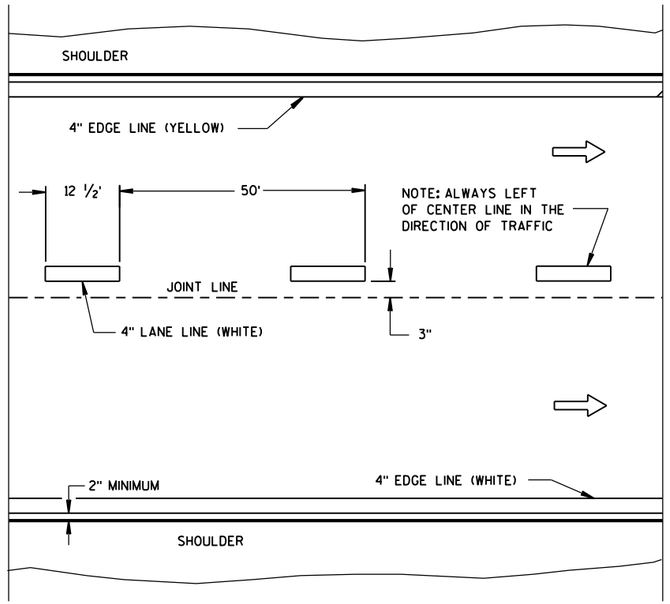
S.D.D. 15 C 7-14c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

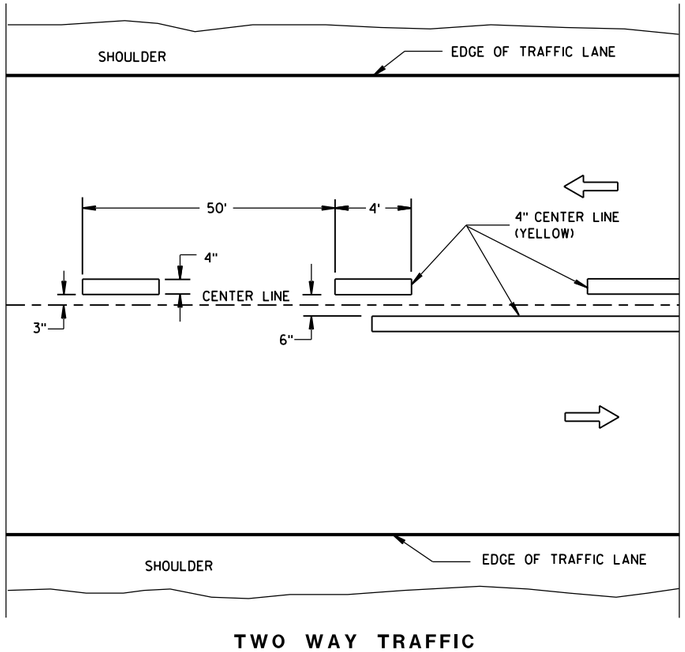
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

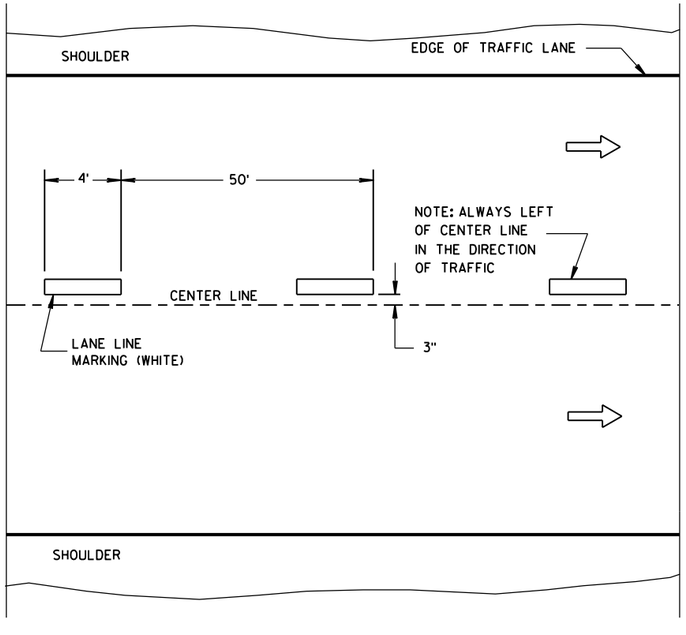
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAR[illegible]INEER
FHWA	

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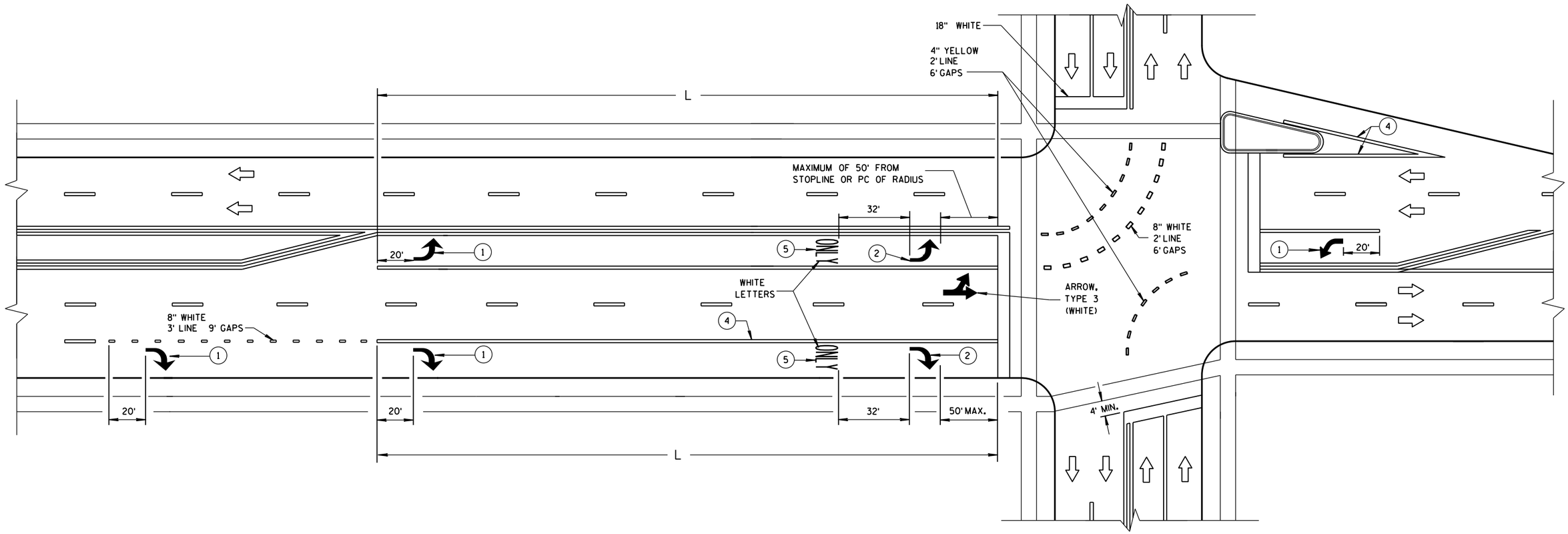
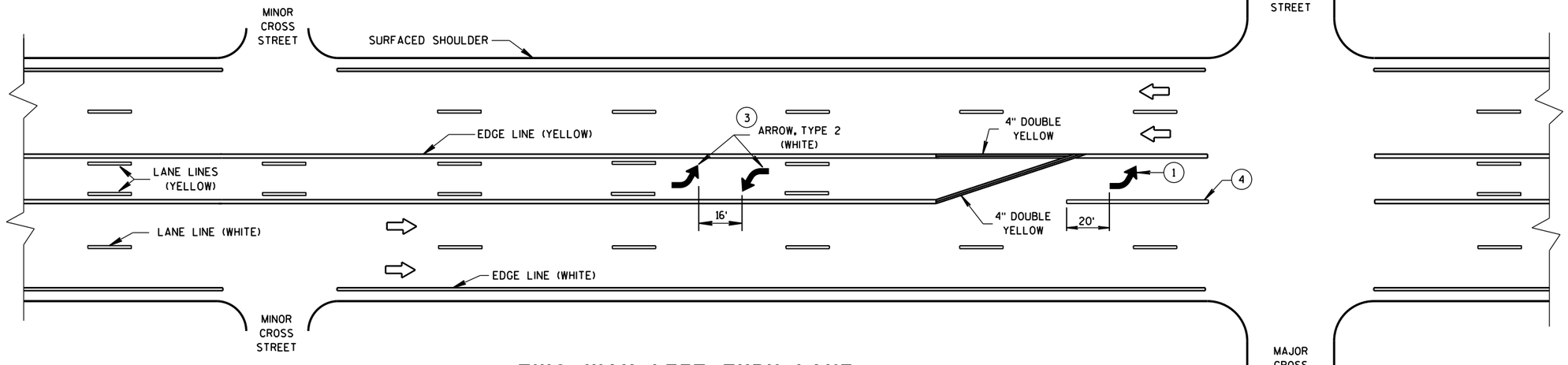
S.D.D. 15 C 8-18a





TWO WAY LEFT TURN LANE

GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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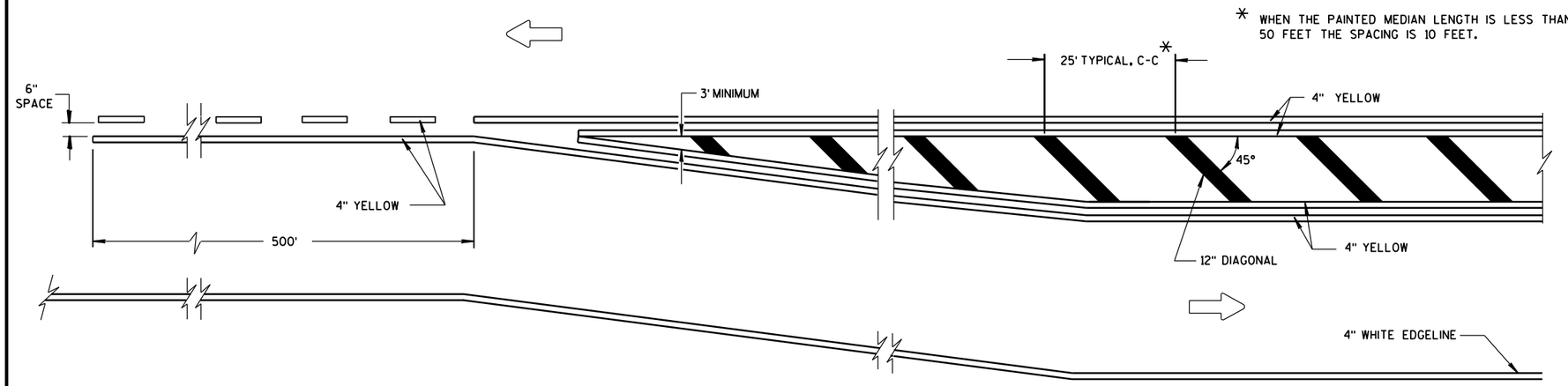
S.D.D. 15 C 8-18b



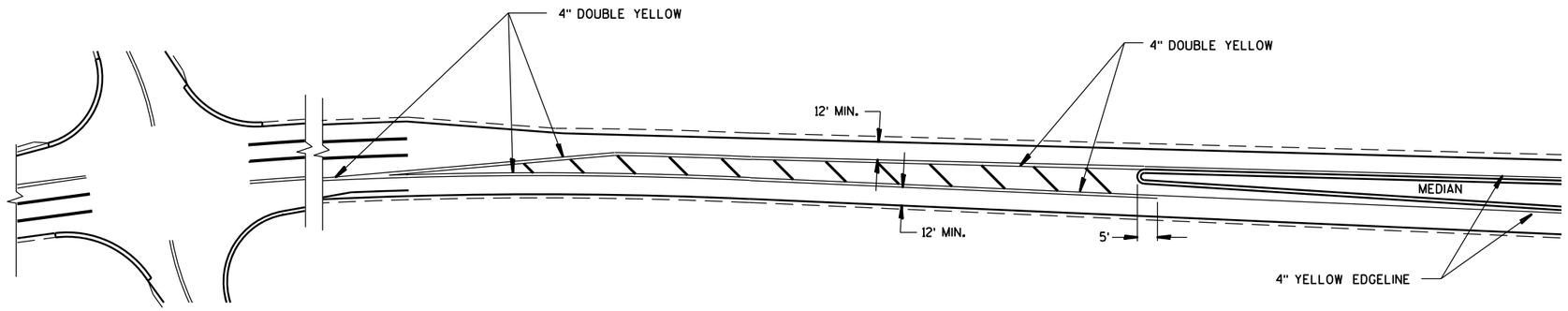
* WHEN THE PAINTED MEDIAN LENGTH IS LESS THAN 50 FEET THE SPACING IS 10 FEET.

MEDIAN ISLAND DETAIL

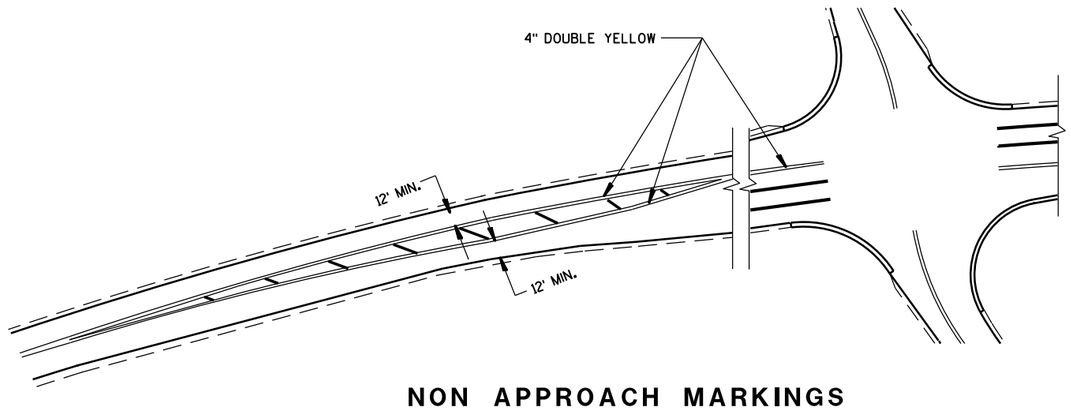
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

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S.D.D. 15 C 18-4

S.D.D. 15 C 18-4

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARK[illegible]EER

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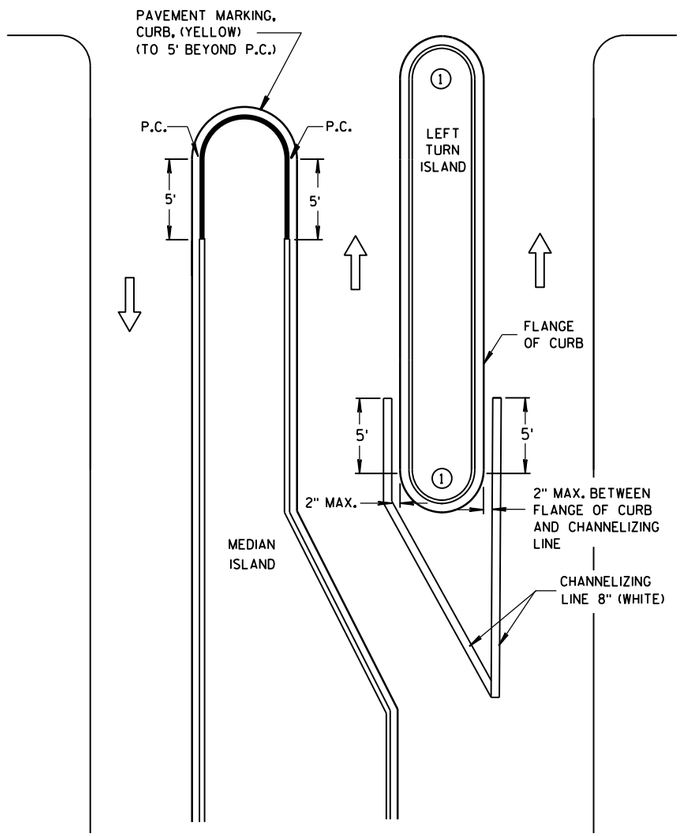
GENERAL NOTE

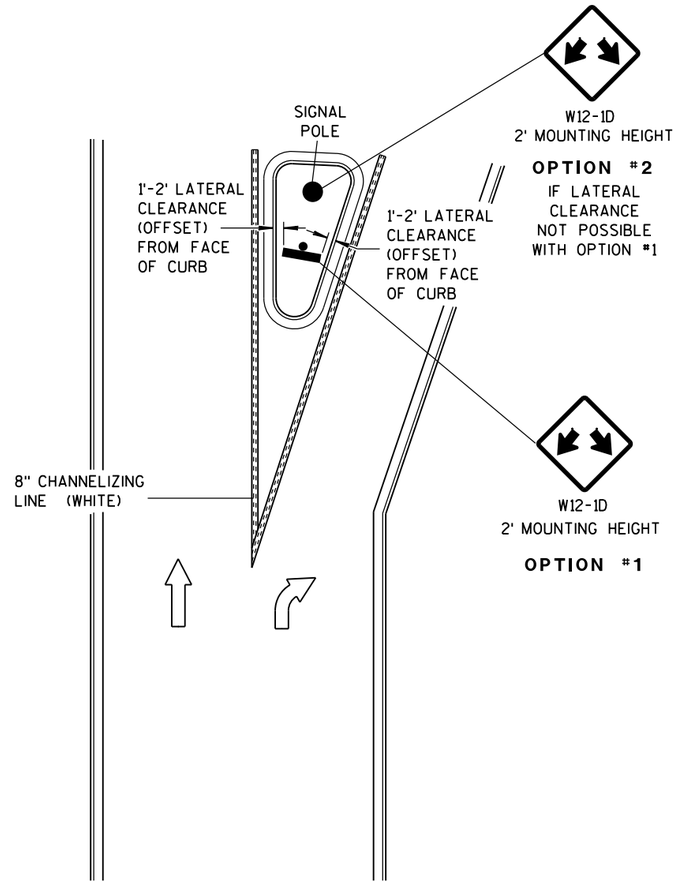
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

DIRECTION OF TRAVEL



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND

DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June 2017 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
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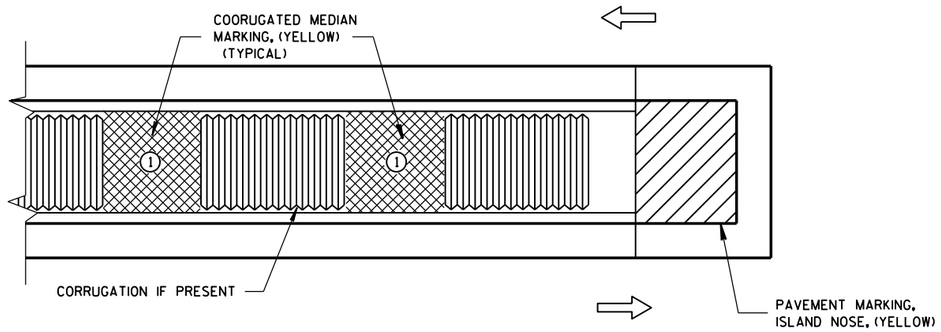
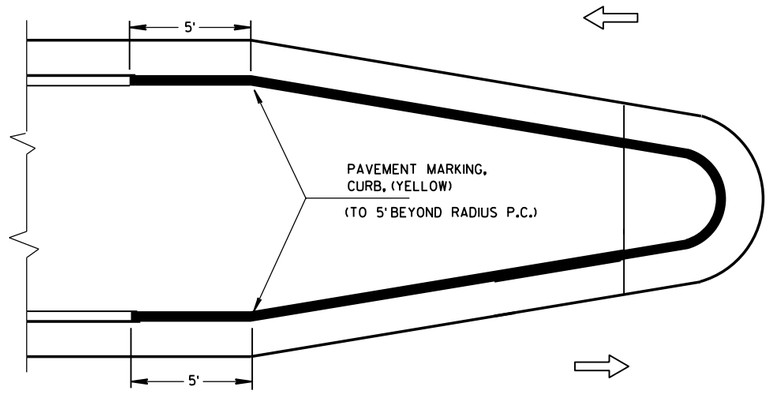
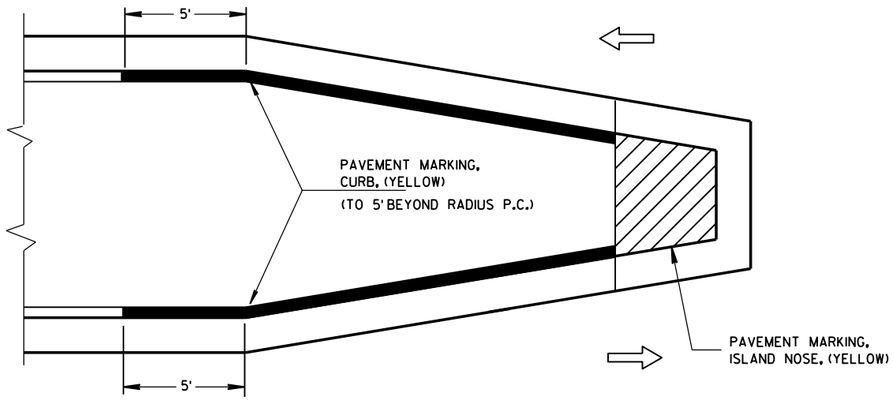
S.D.D. 15 C 27-2a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

(1) WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Matthew Rauch
STATE SIGNING AND MARK 245 EER
FHWA

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S.D.D. 15 C 27-2b

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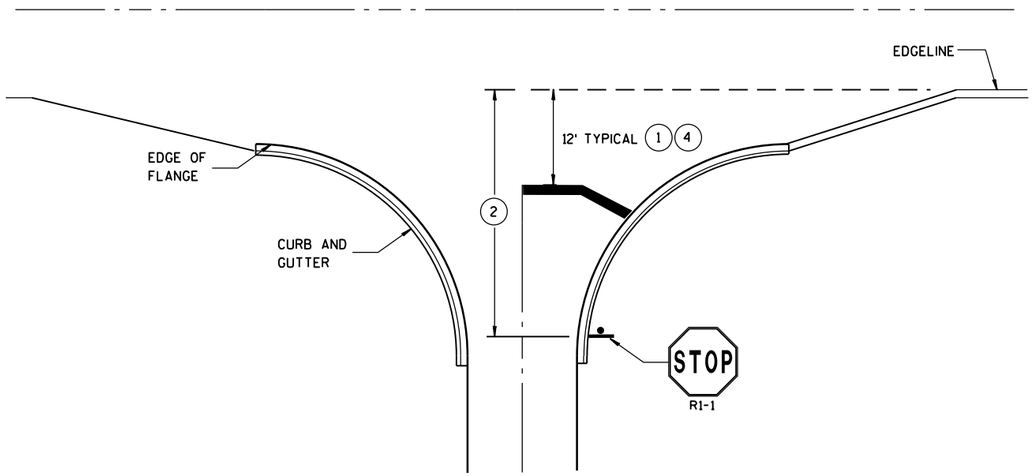
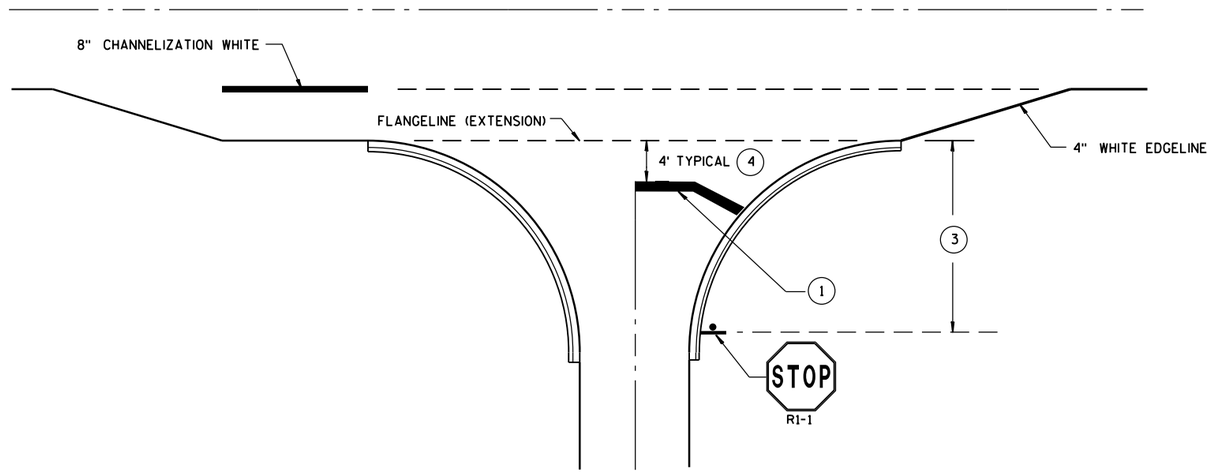
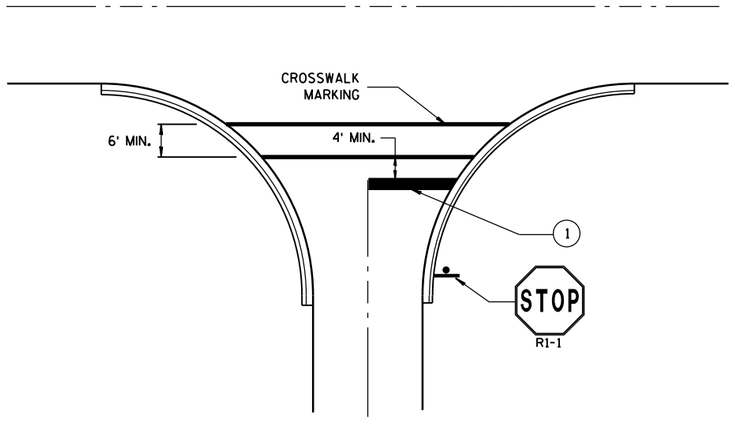
S.D.D. 15 C 27-2b



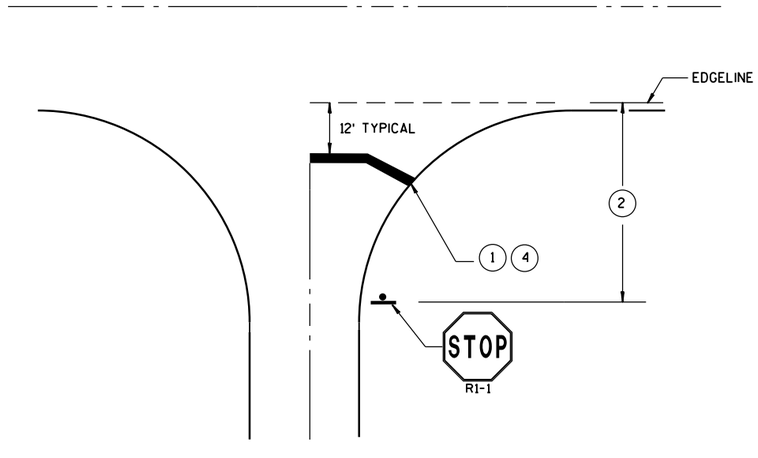
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

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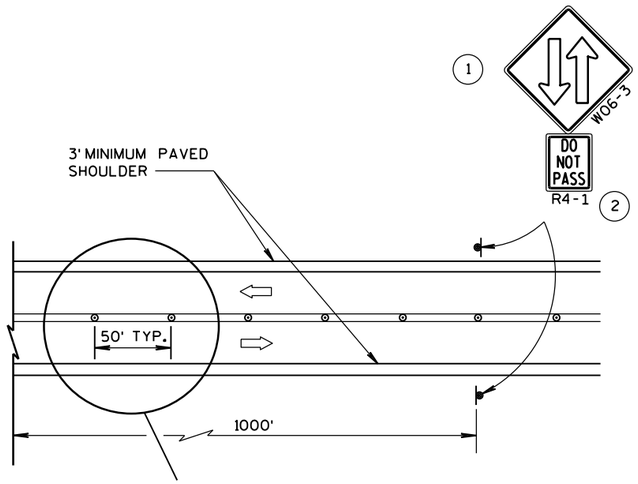
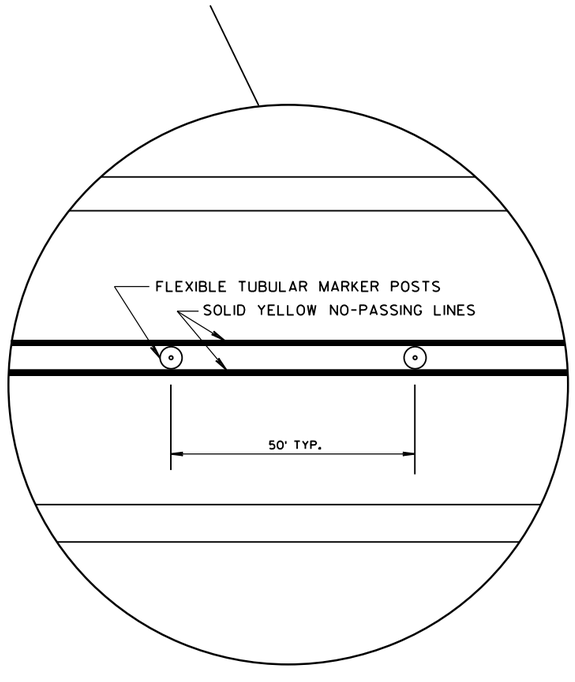
S.D.D. 15 C 33-3



TWO LANE, TWO WAY OPERATION



LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

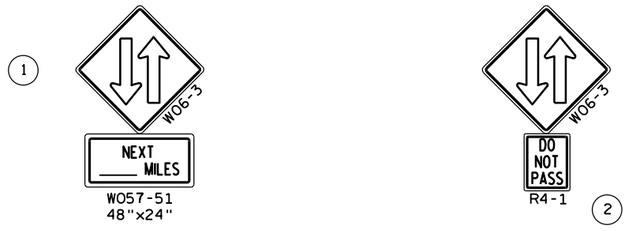
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.



THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 DATE
/S/ Travis Feltes STATE TRAFFIC ENGINEER
SIGN
FHWA

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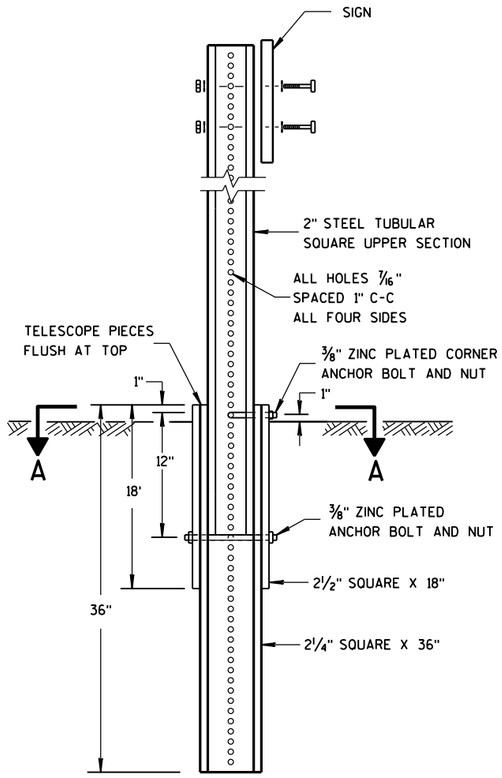
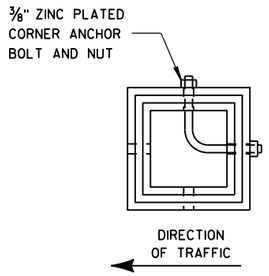
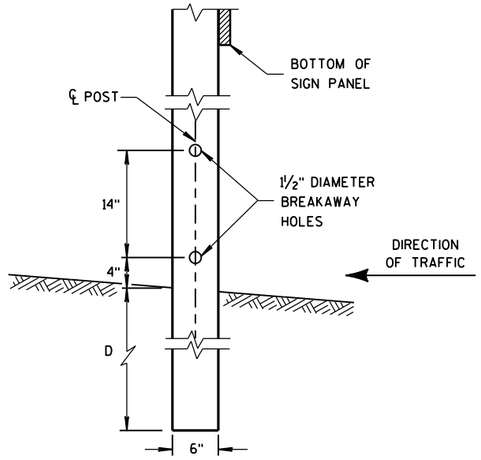
S.D.D. 15 D 6-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



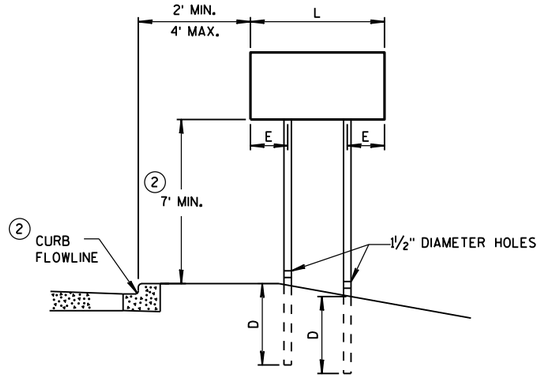
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

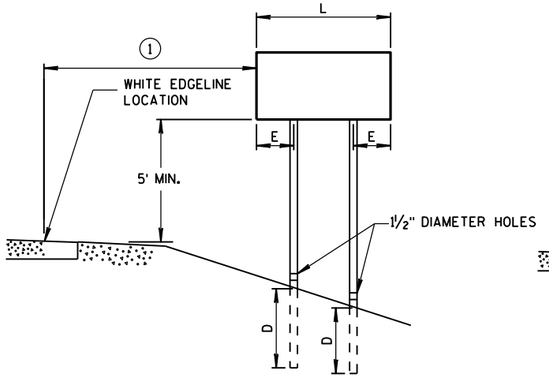
1. 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

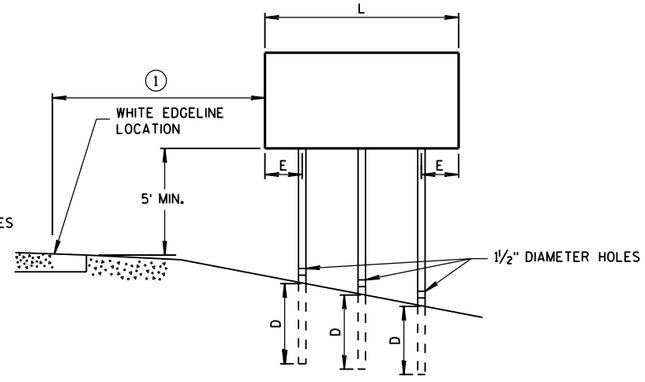
2. THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

3. FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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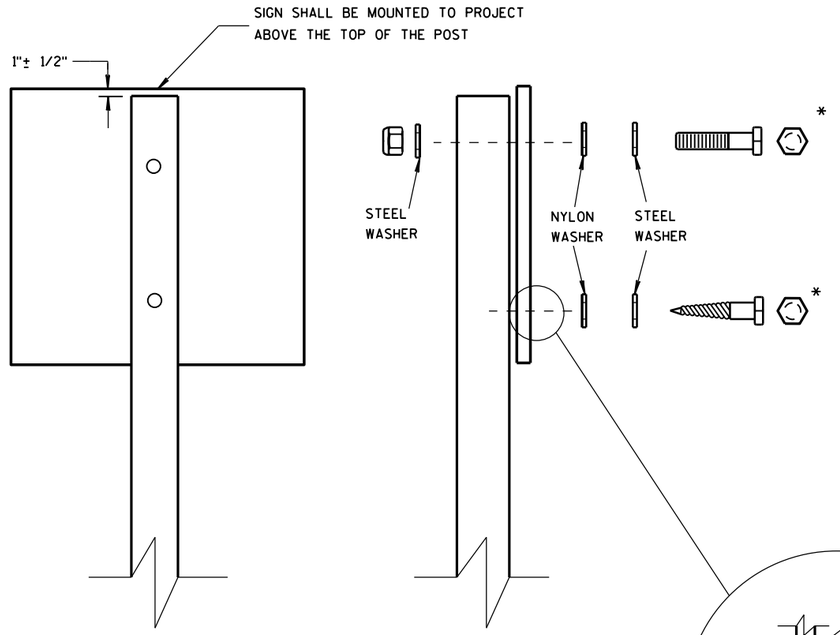
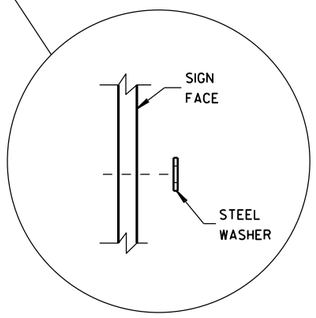
S.D.D. 15 D 38-2a





WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

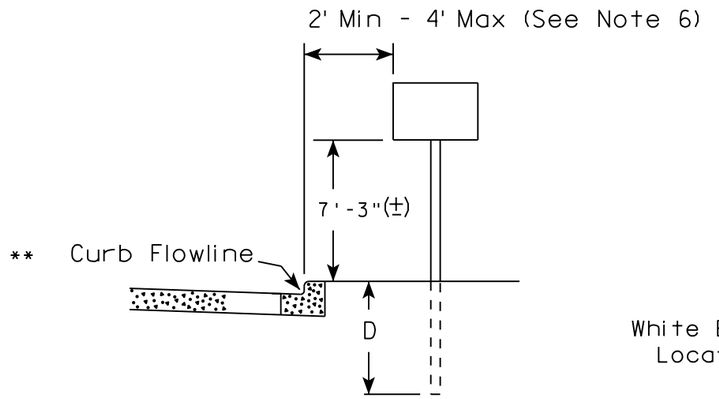
APPROVED

June 2017
DATE

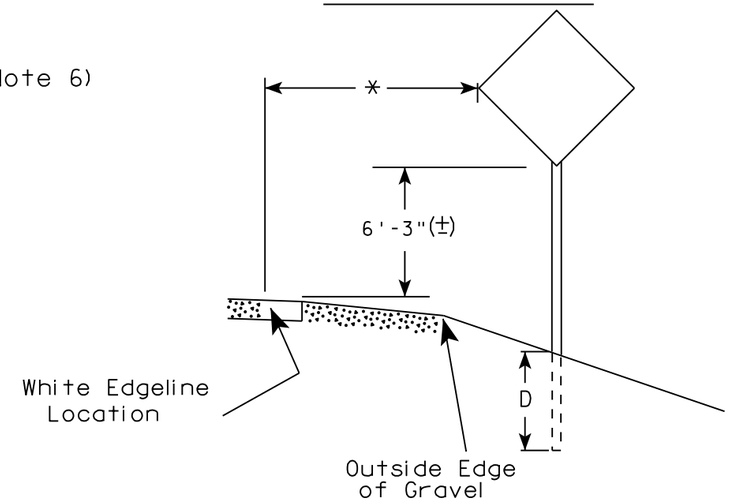
/S/ Andrew Heldtke
WORK ZONE ENG

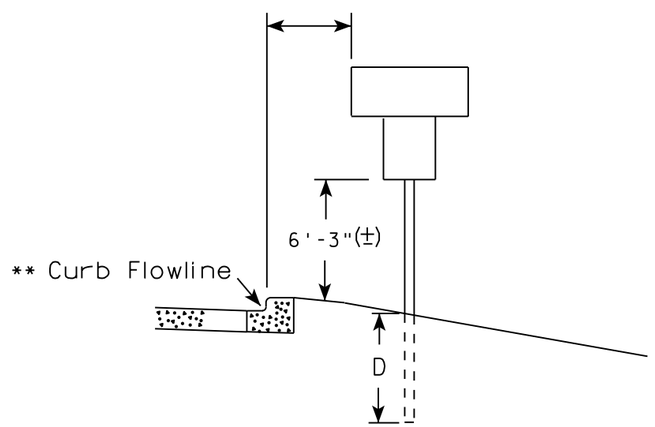
FHWA

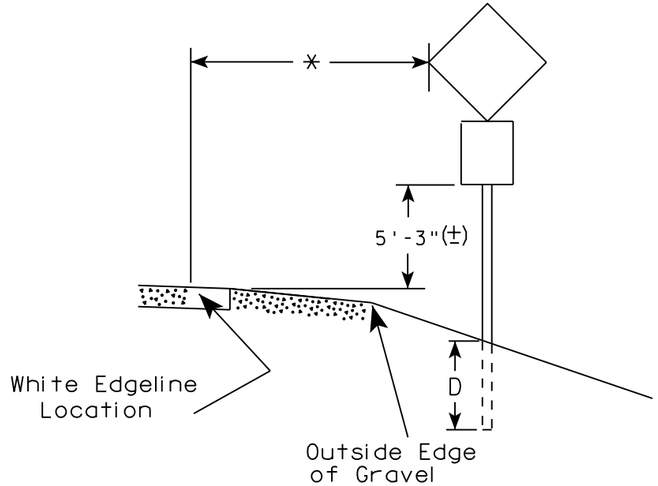
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

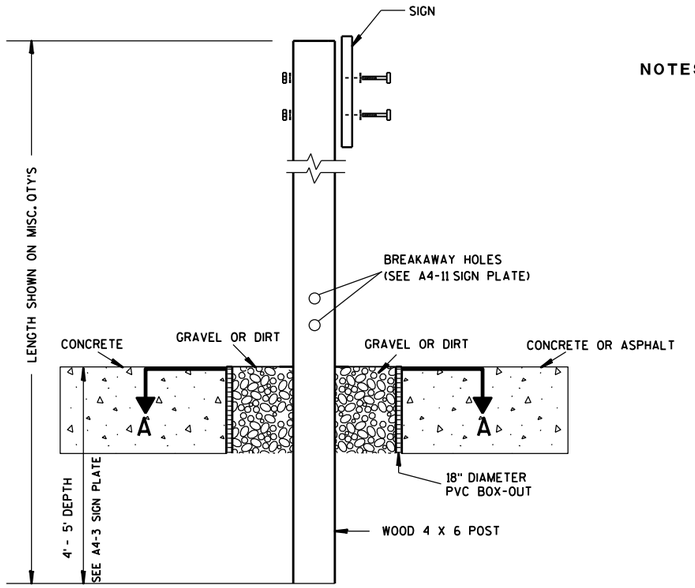
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

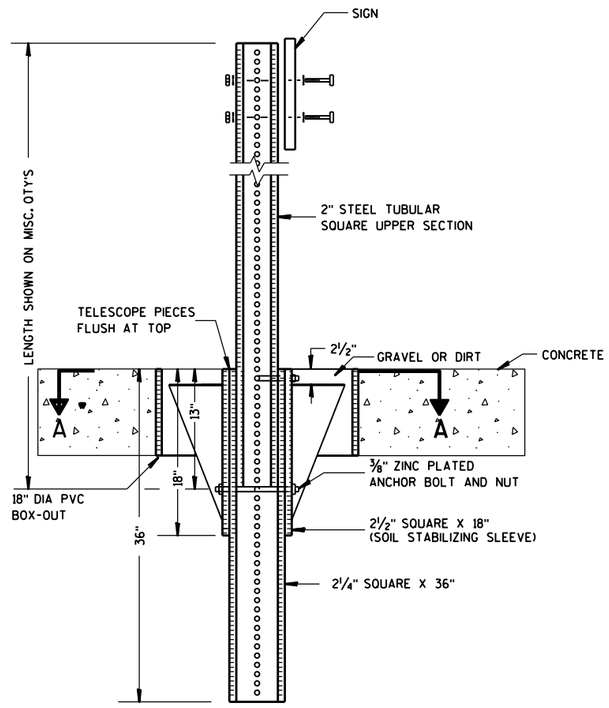
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

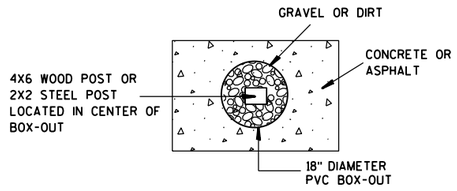
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

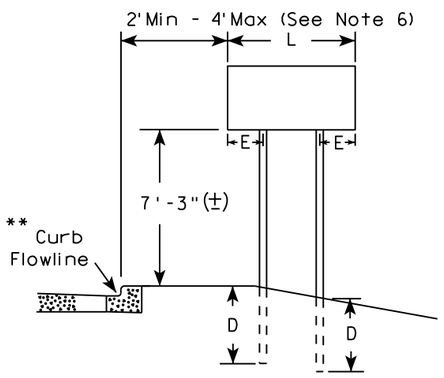
APPROVED Matthew R Rauch
for State Traffic Engineer

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

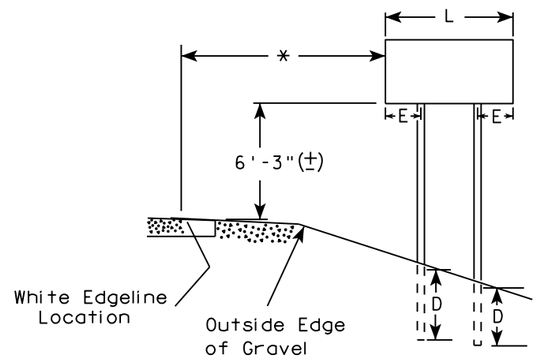
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

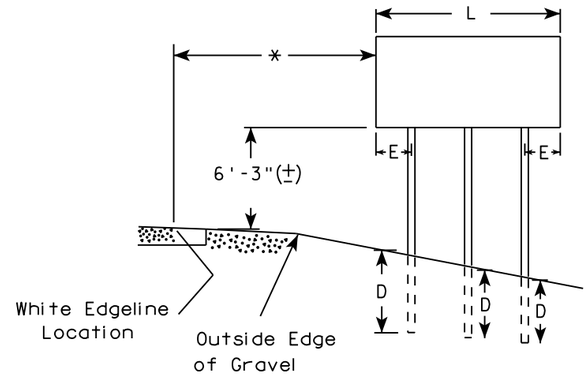
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

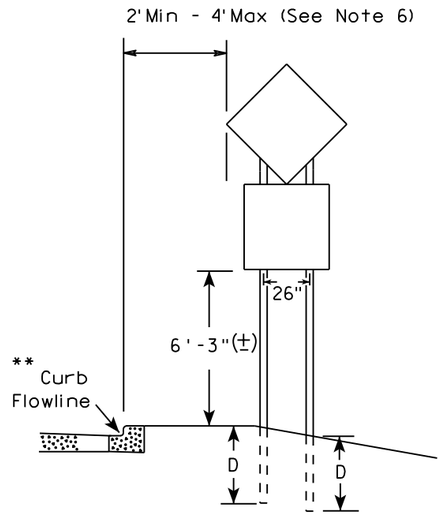
URBAN AREA



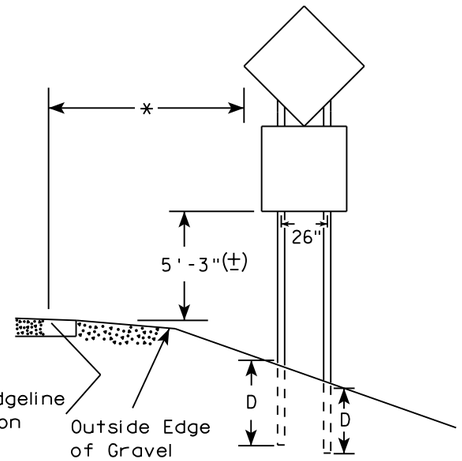
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

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

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

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

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

POST EMBEDMENT DEPTH

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

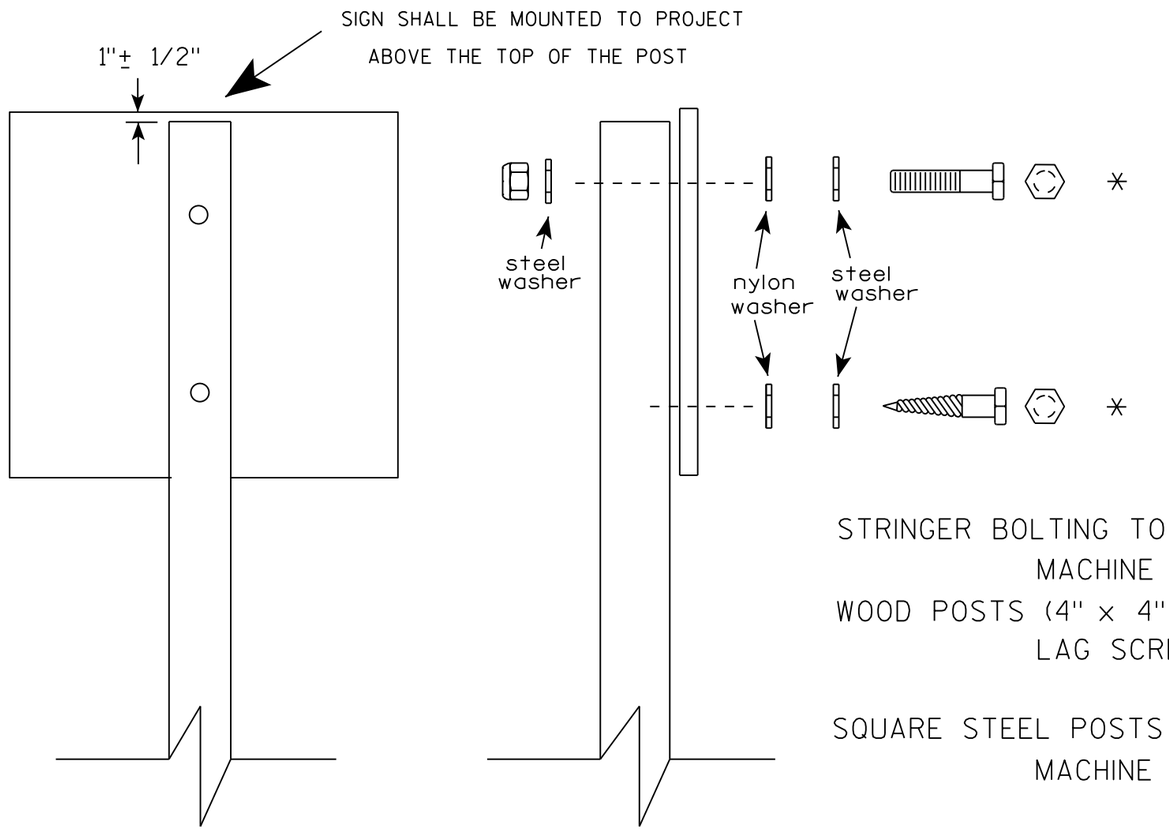
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 252	E



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

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

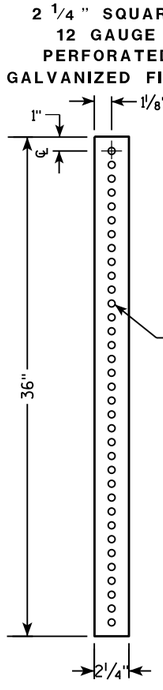
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

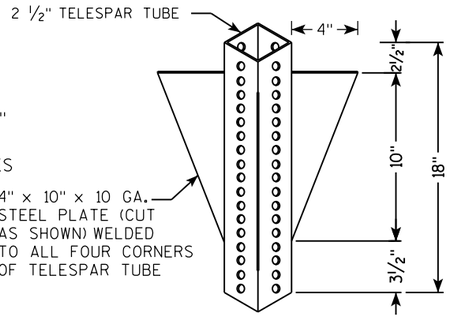
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

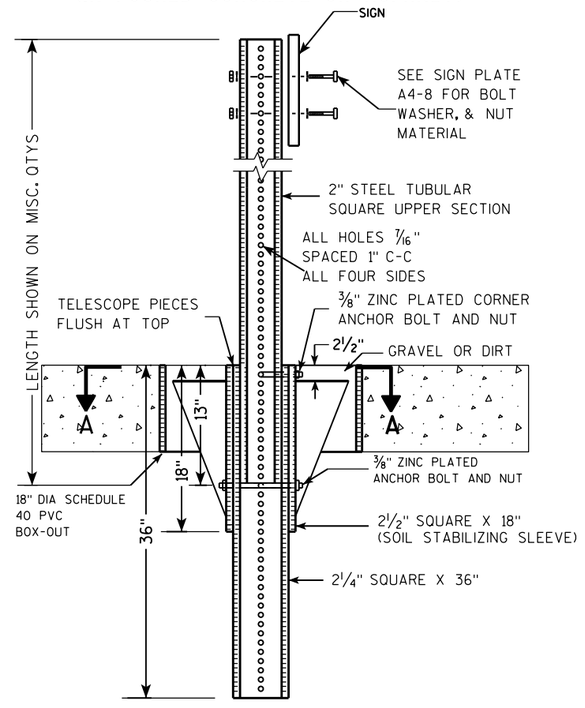
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



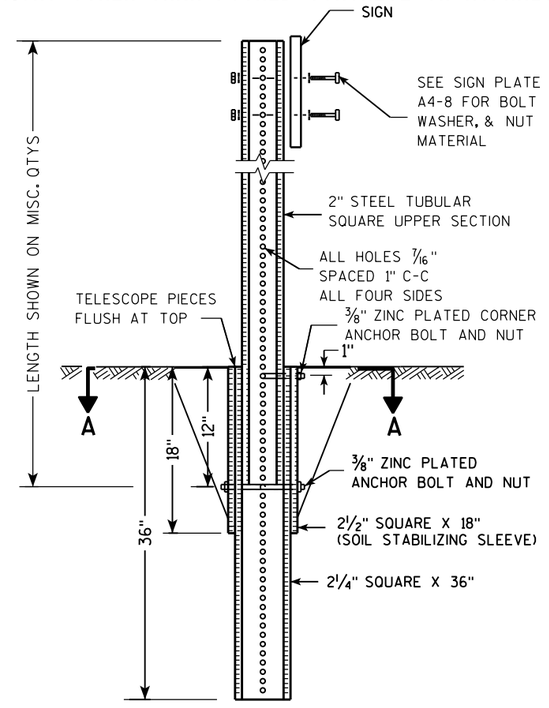
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

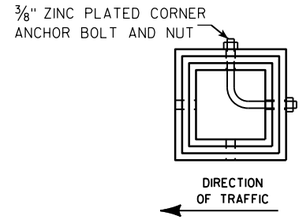


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

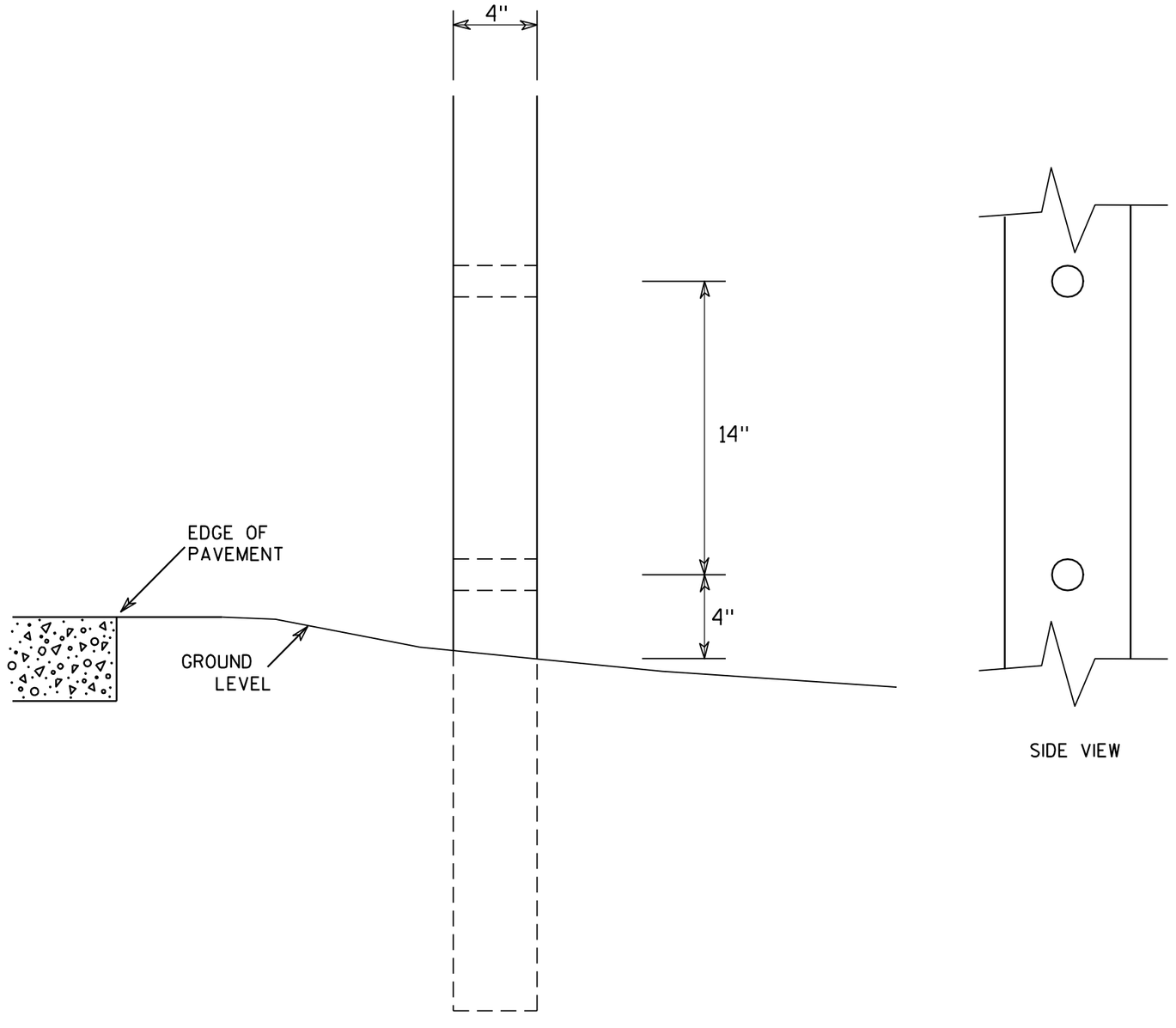
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 254 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

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

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

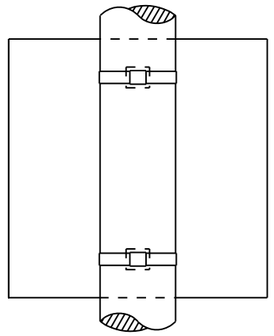
APPROVED Chester J Spang for State Traffic Engineer

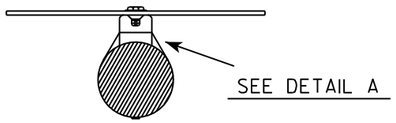
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 255	E

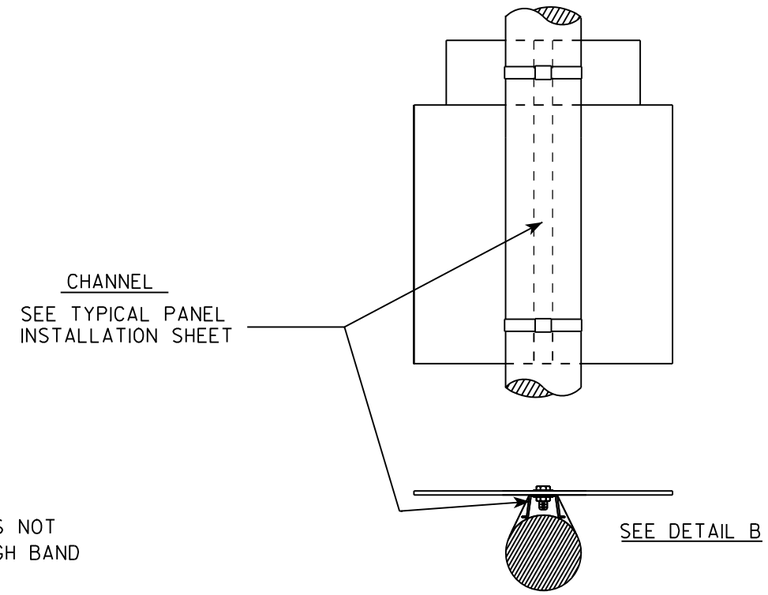
BANDING

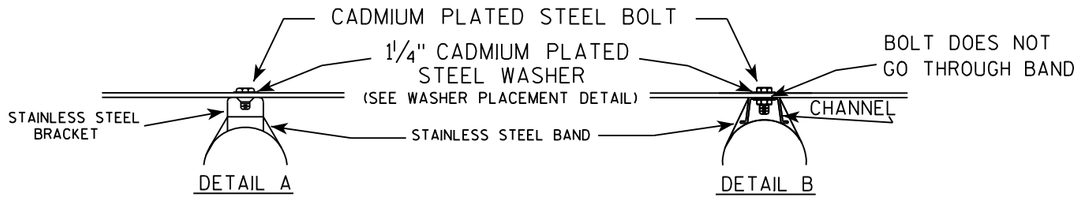
SINGLE SIGN



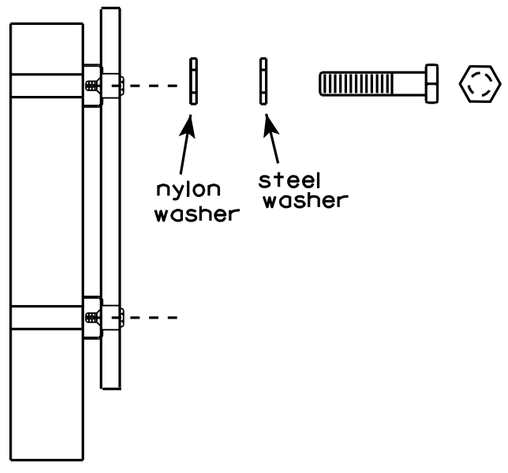


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

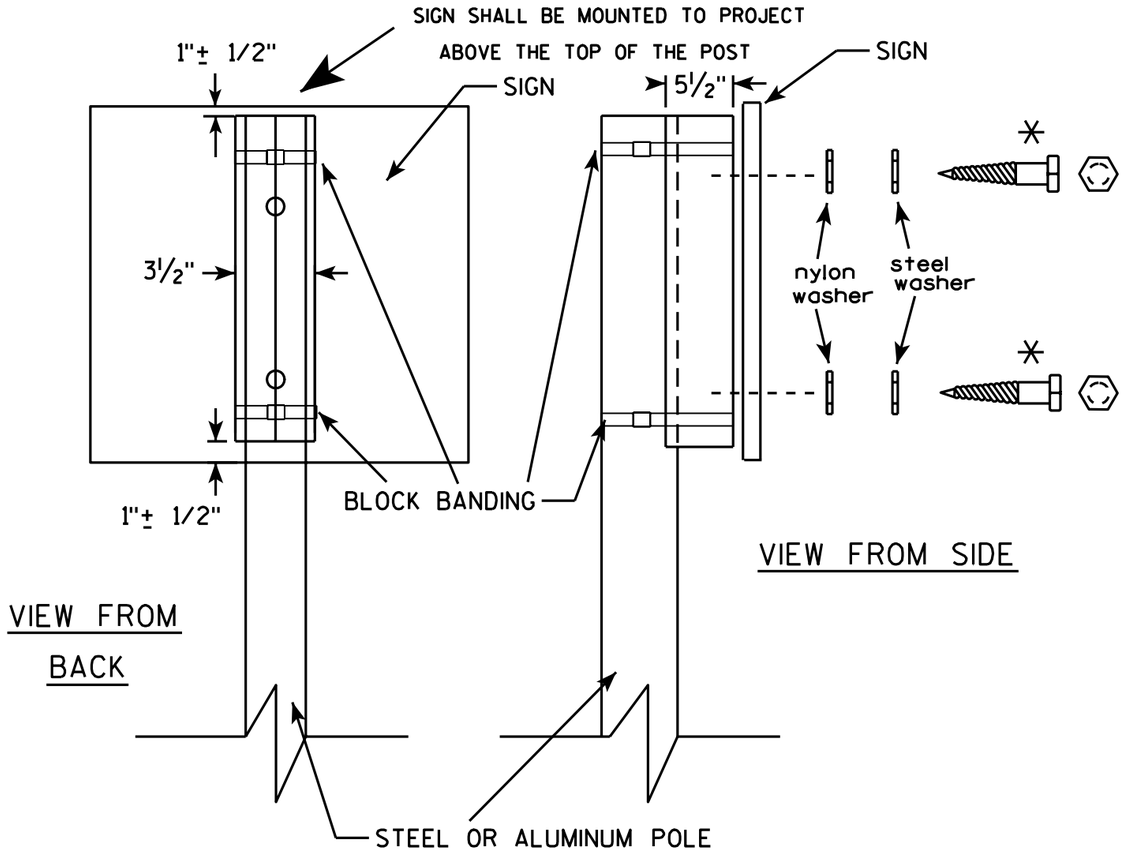
STANDARD SIGN
SIGN BANDING DETAILS

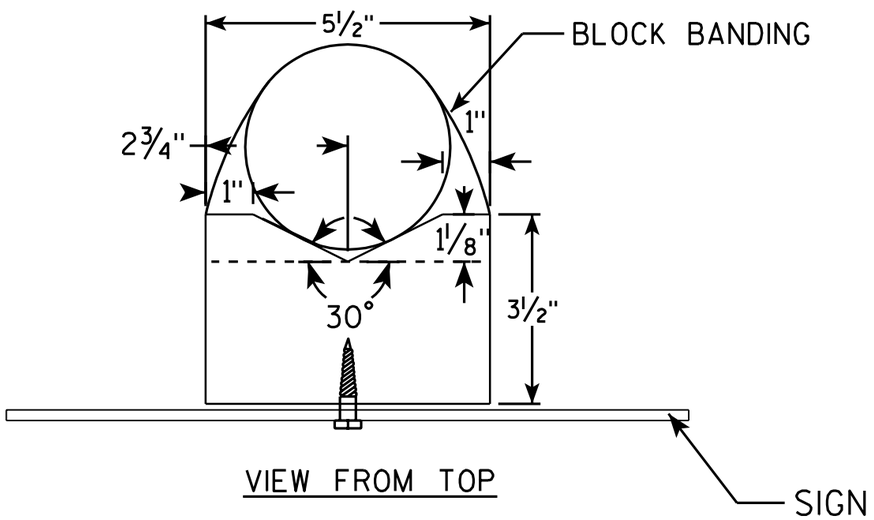
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 256	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

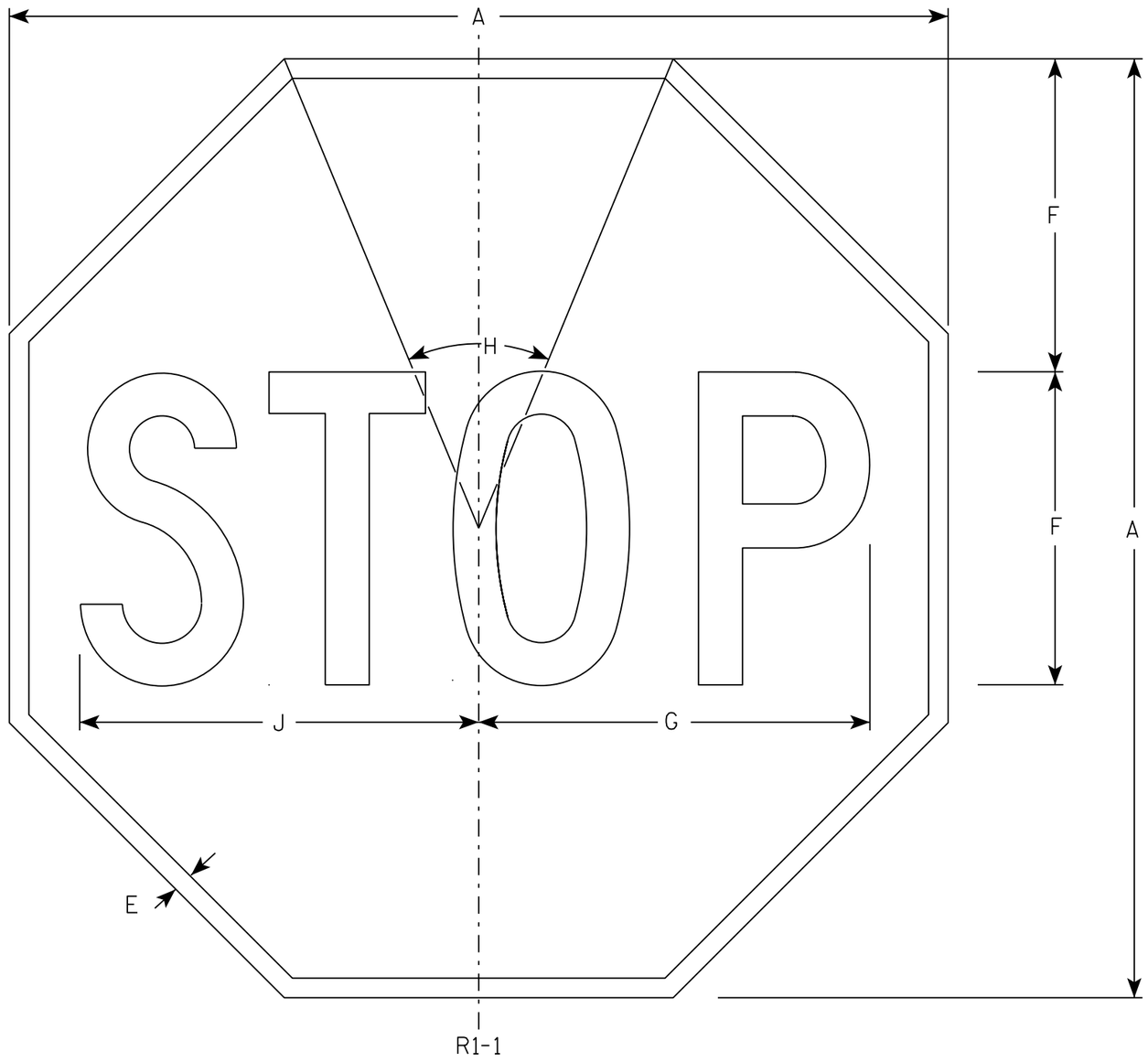
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 257 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

R1-1

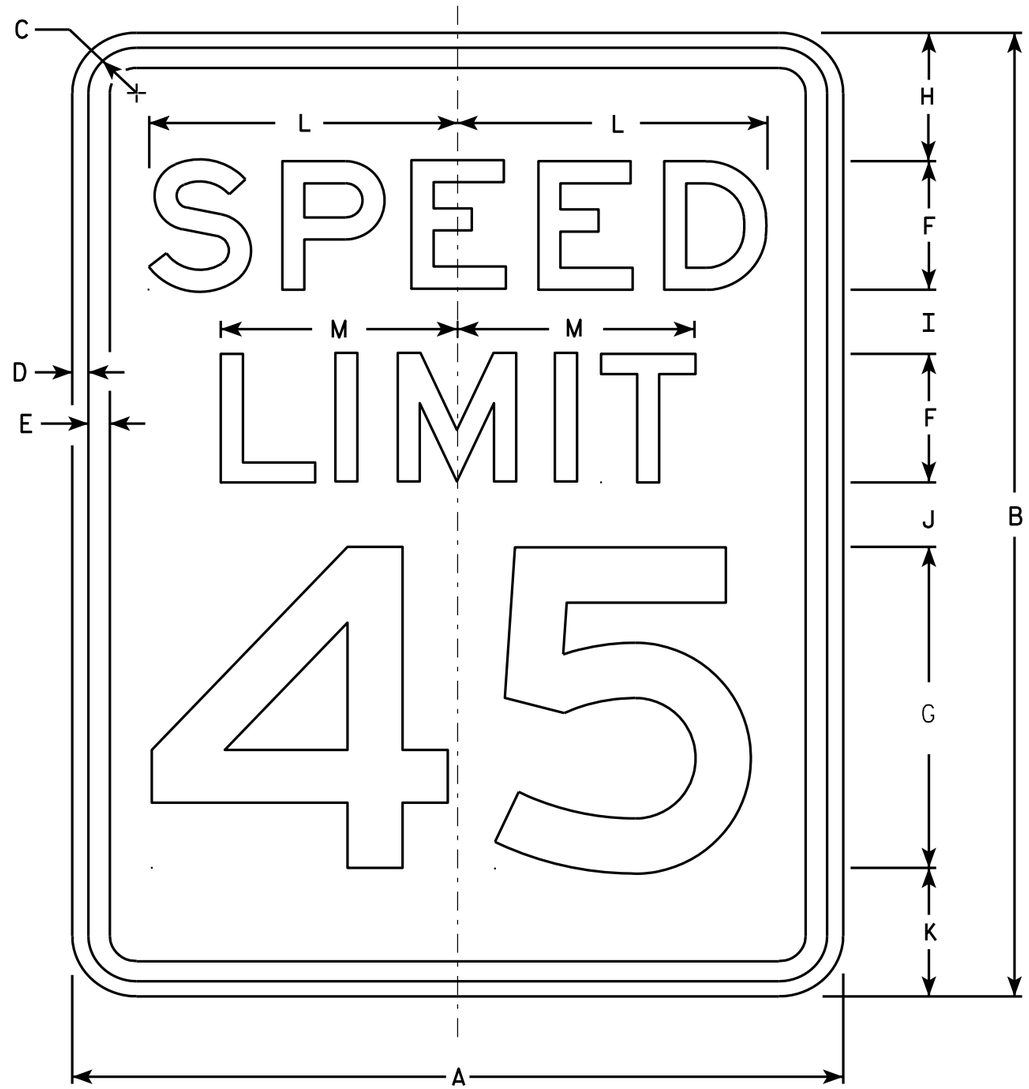
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 258	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

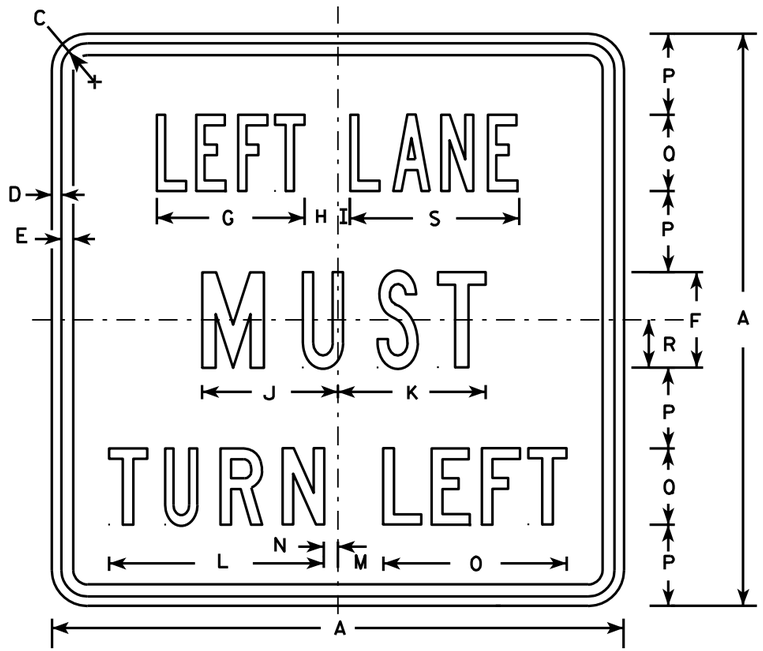
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

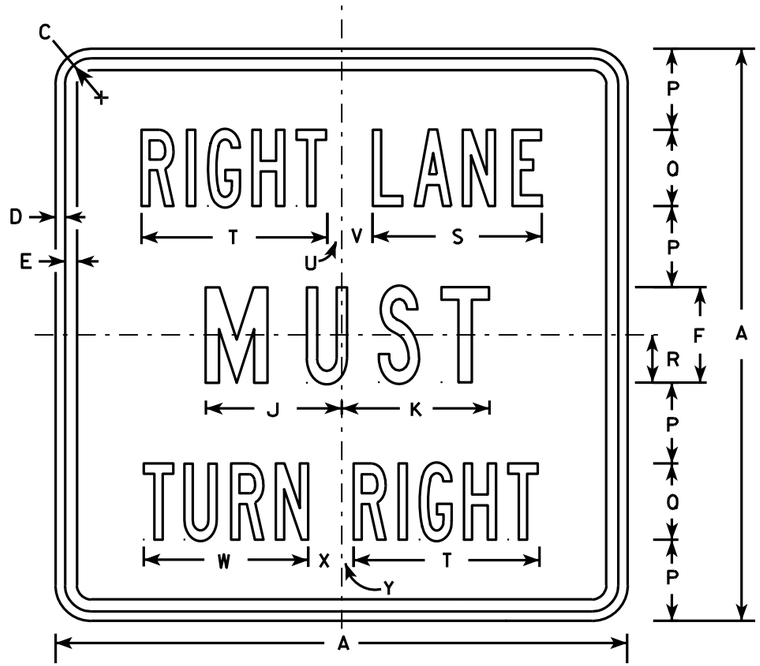
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 259 | E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

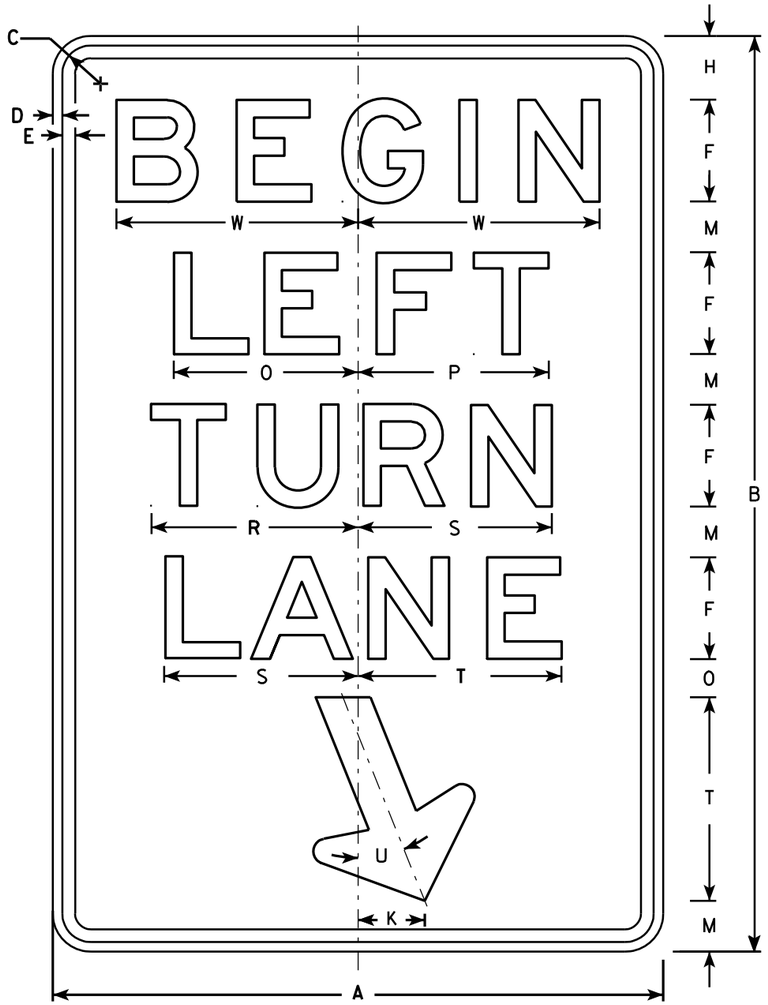
DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 260	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R37.DGN PLOT DATE : 18-MAR-2011 09:43 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

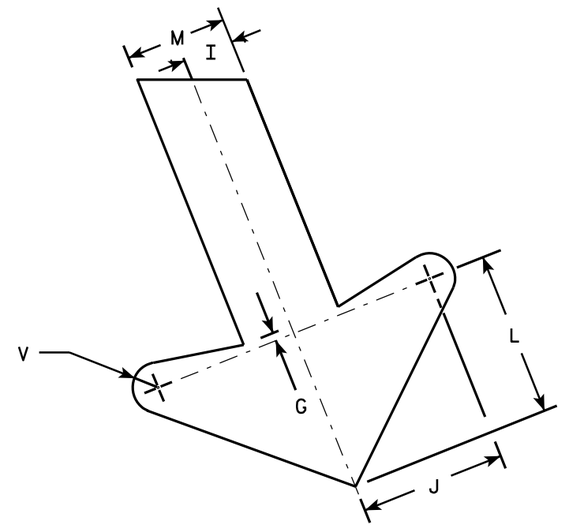
7



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

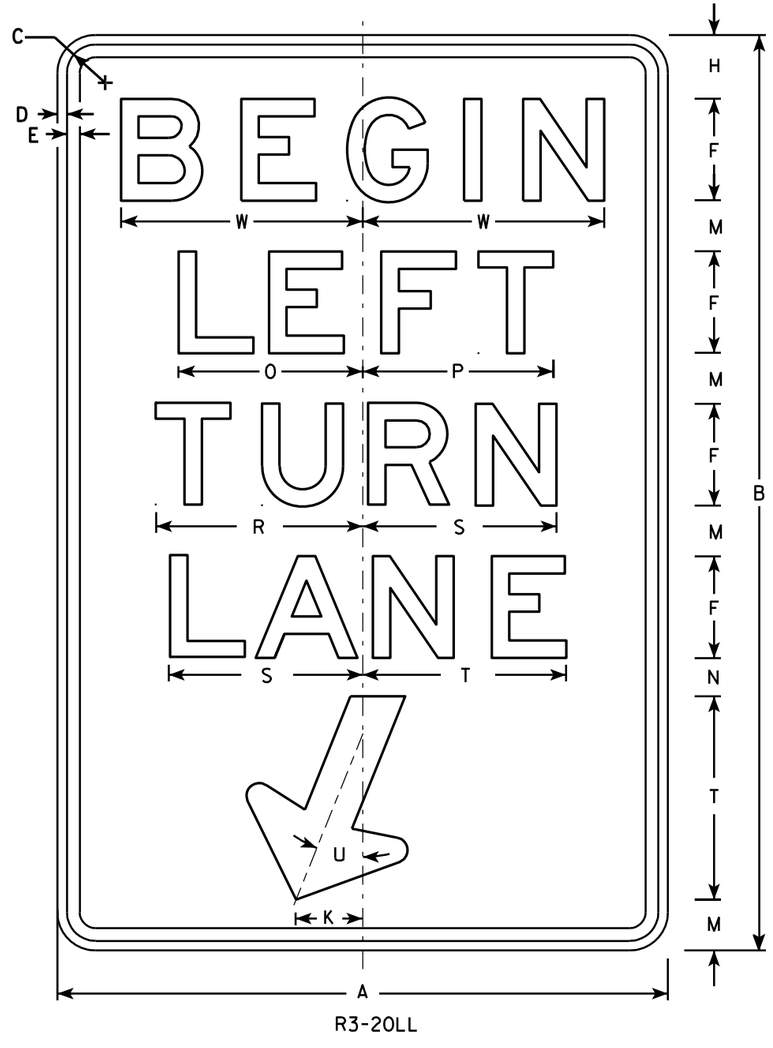
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

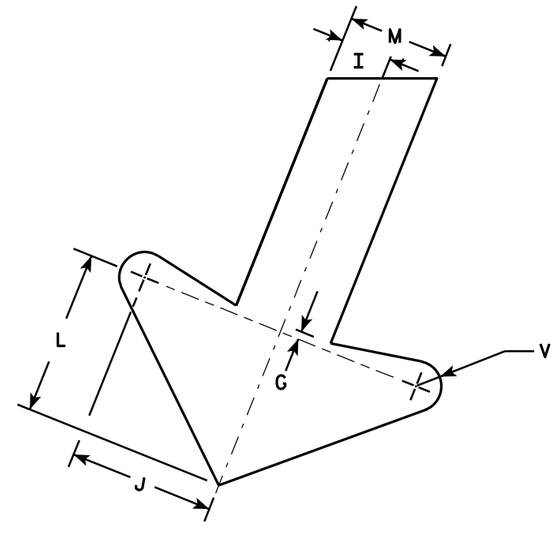
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 261 | E



R3-20LL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

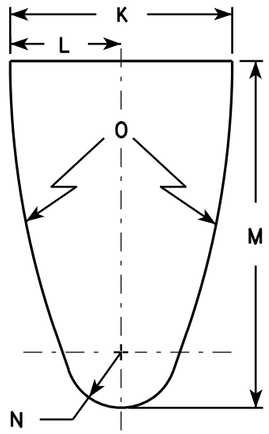
APPROVED Matthew R Rauch
for State Traffic Engineer

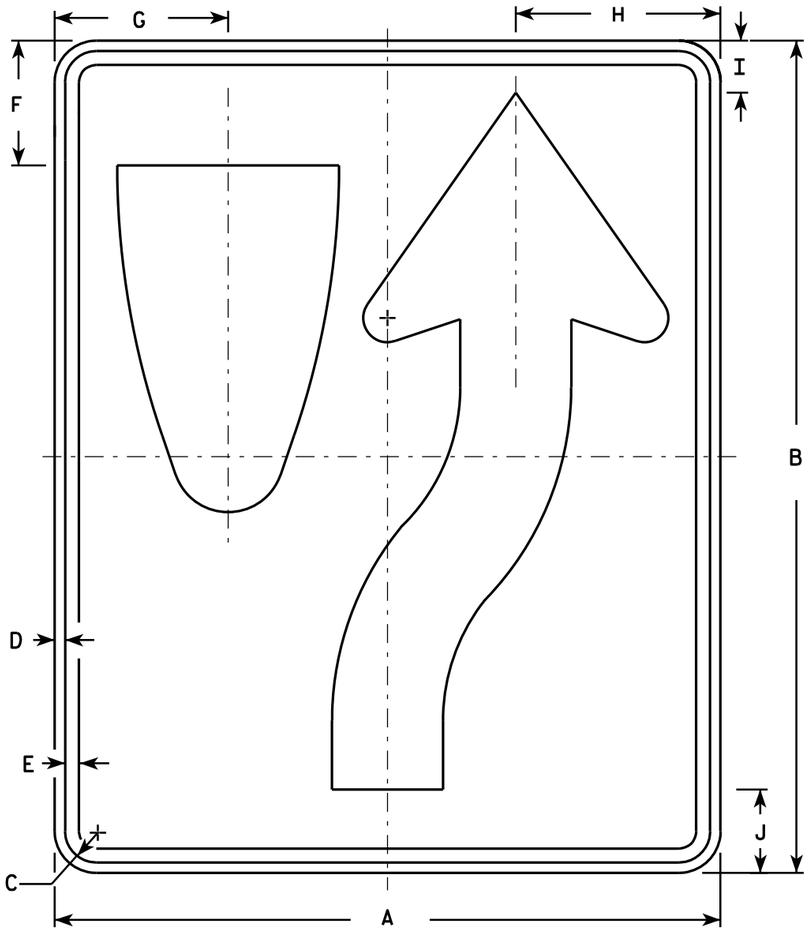
DATE 10/18/10 PLATE NO. R3-20LL.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 262	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320LL.DGN PLOT DATE : 15-OCT-2010 14:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

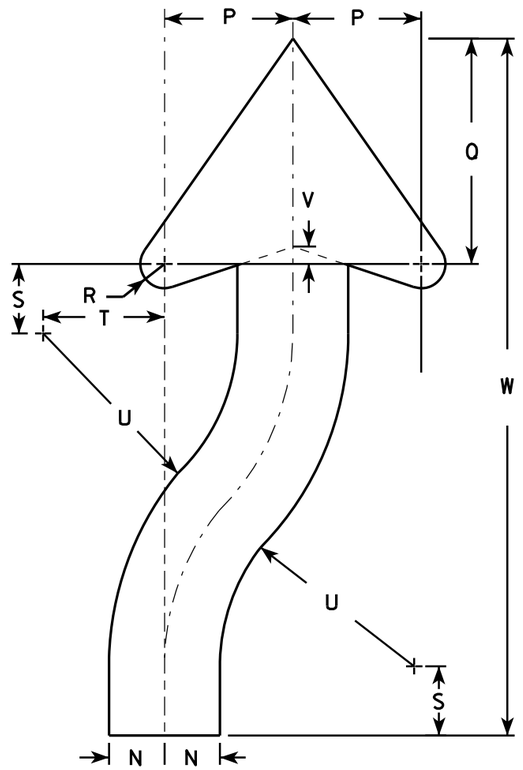




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

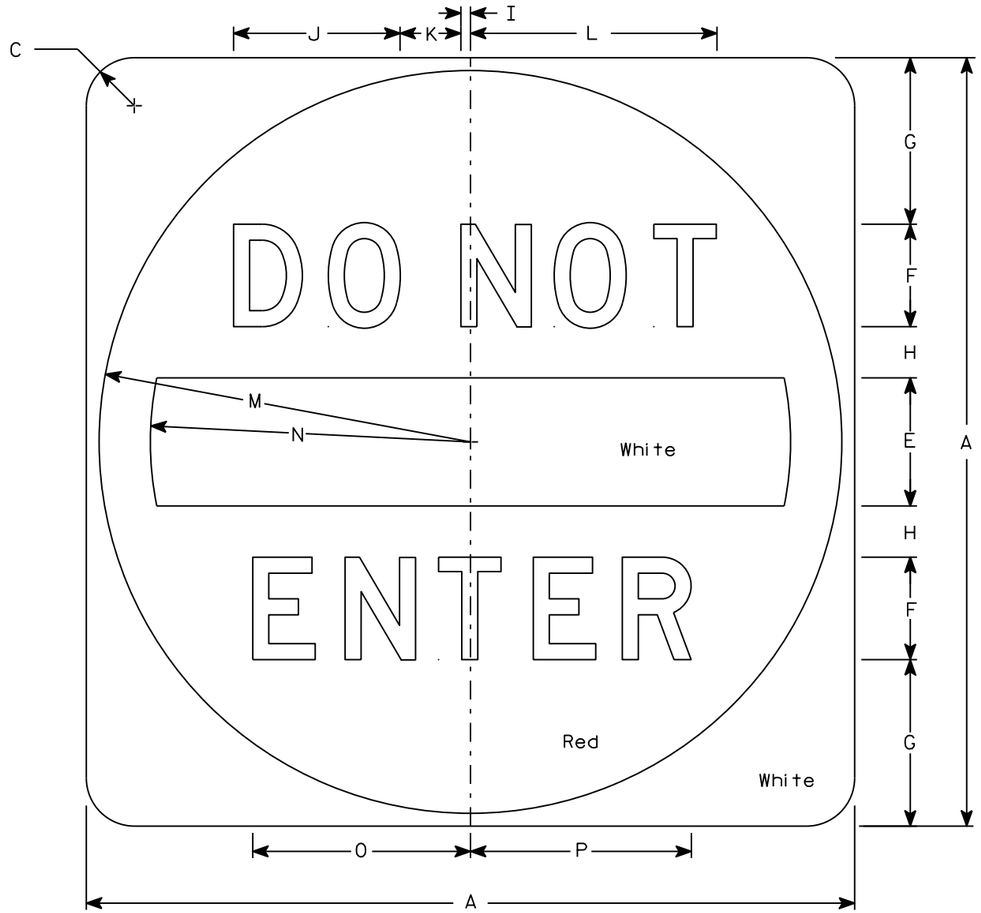
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 263	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

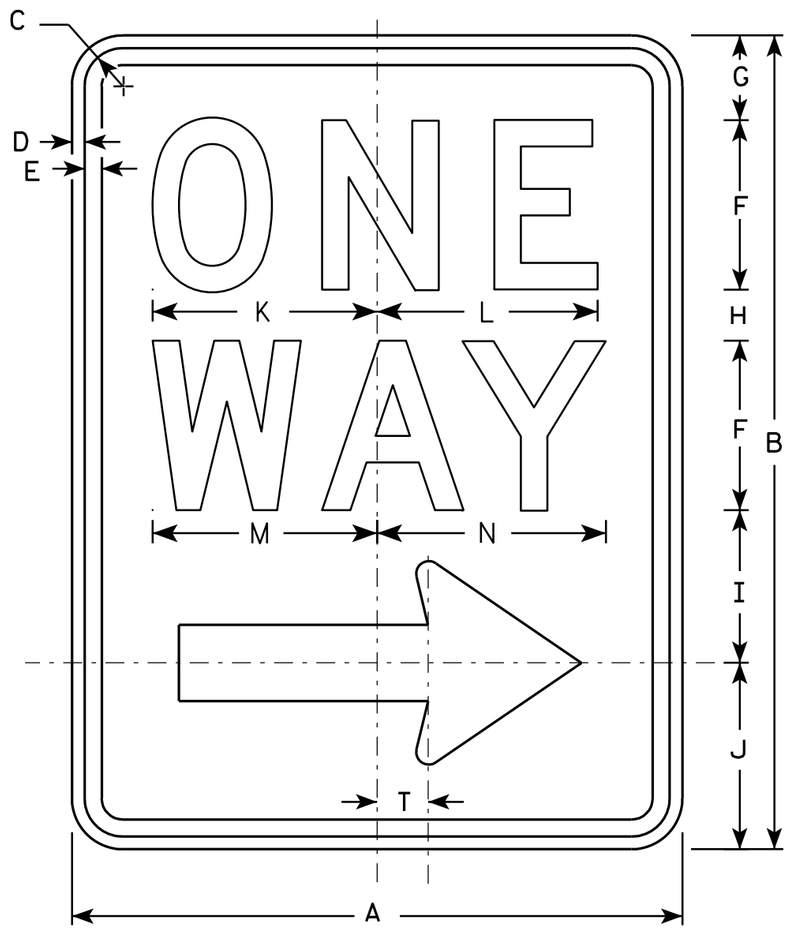
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

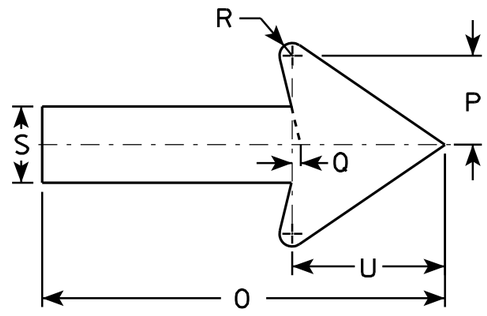
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 264 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

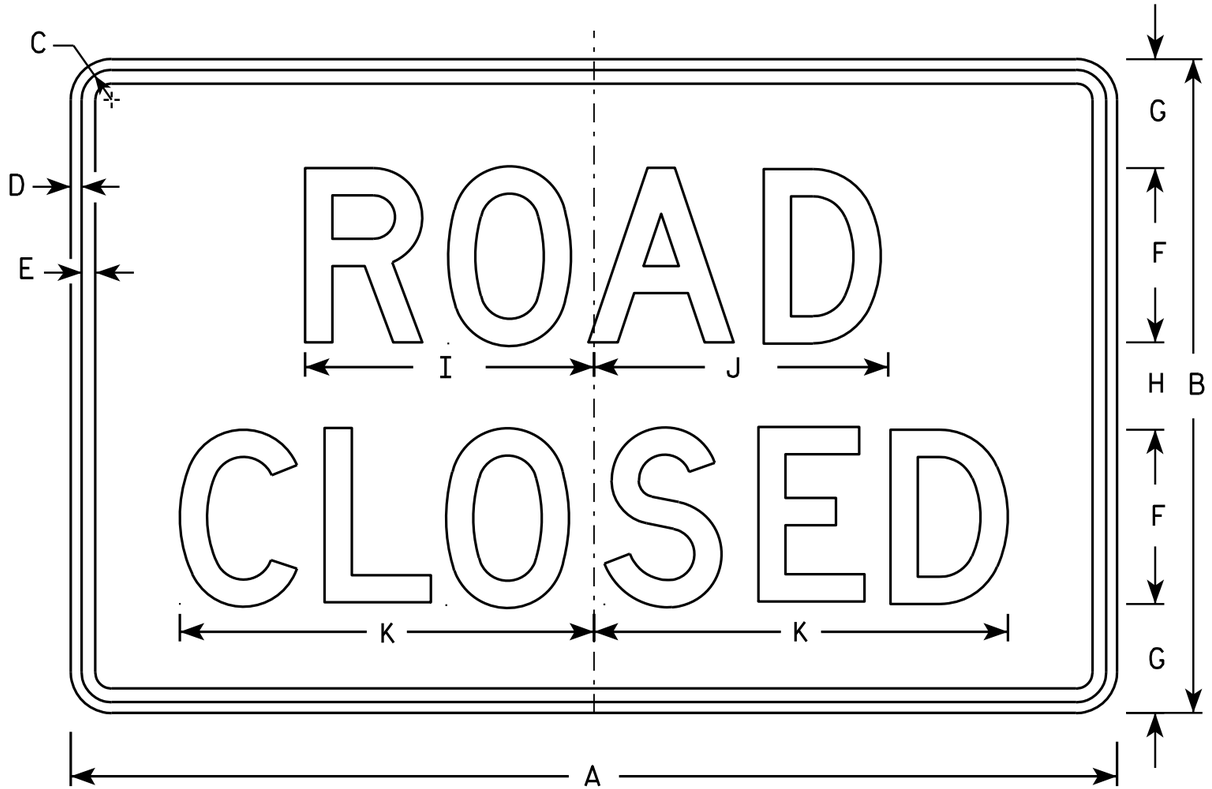
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

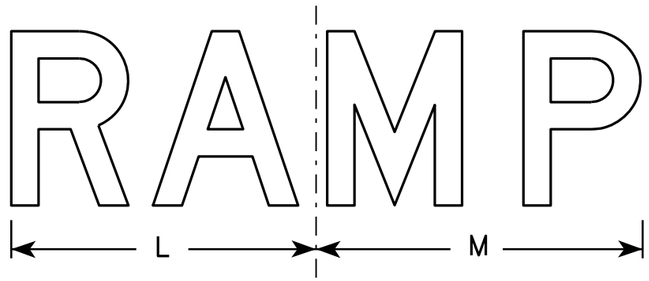
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 265	E



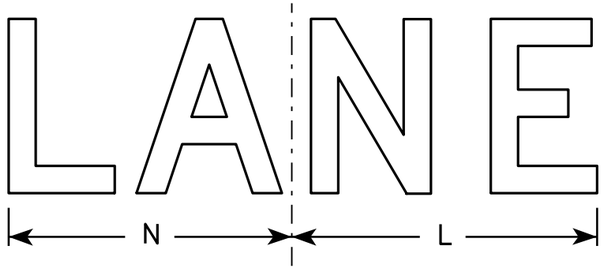
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

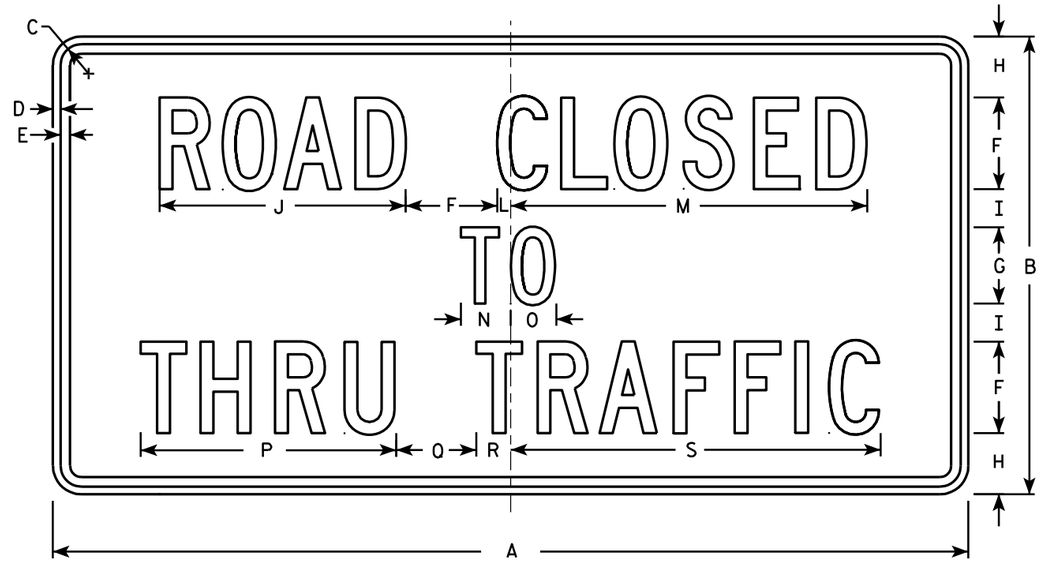
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 266	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

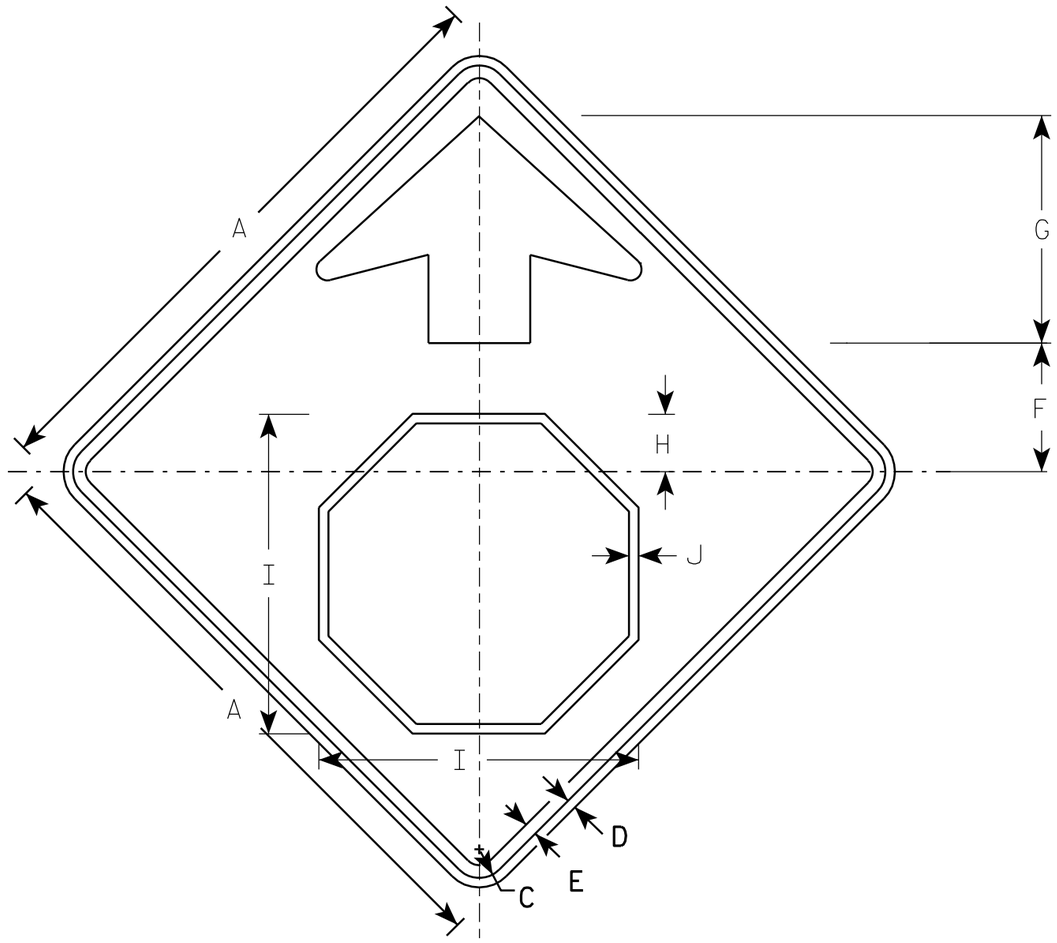
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

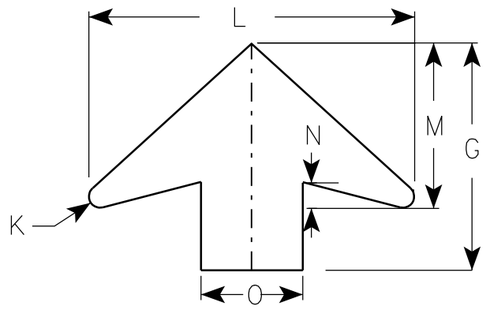
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 267 | E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

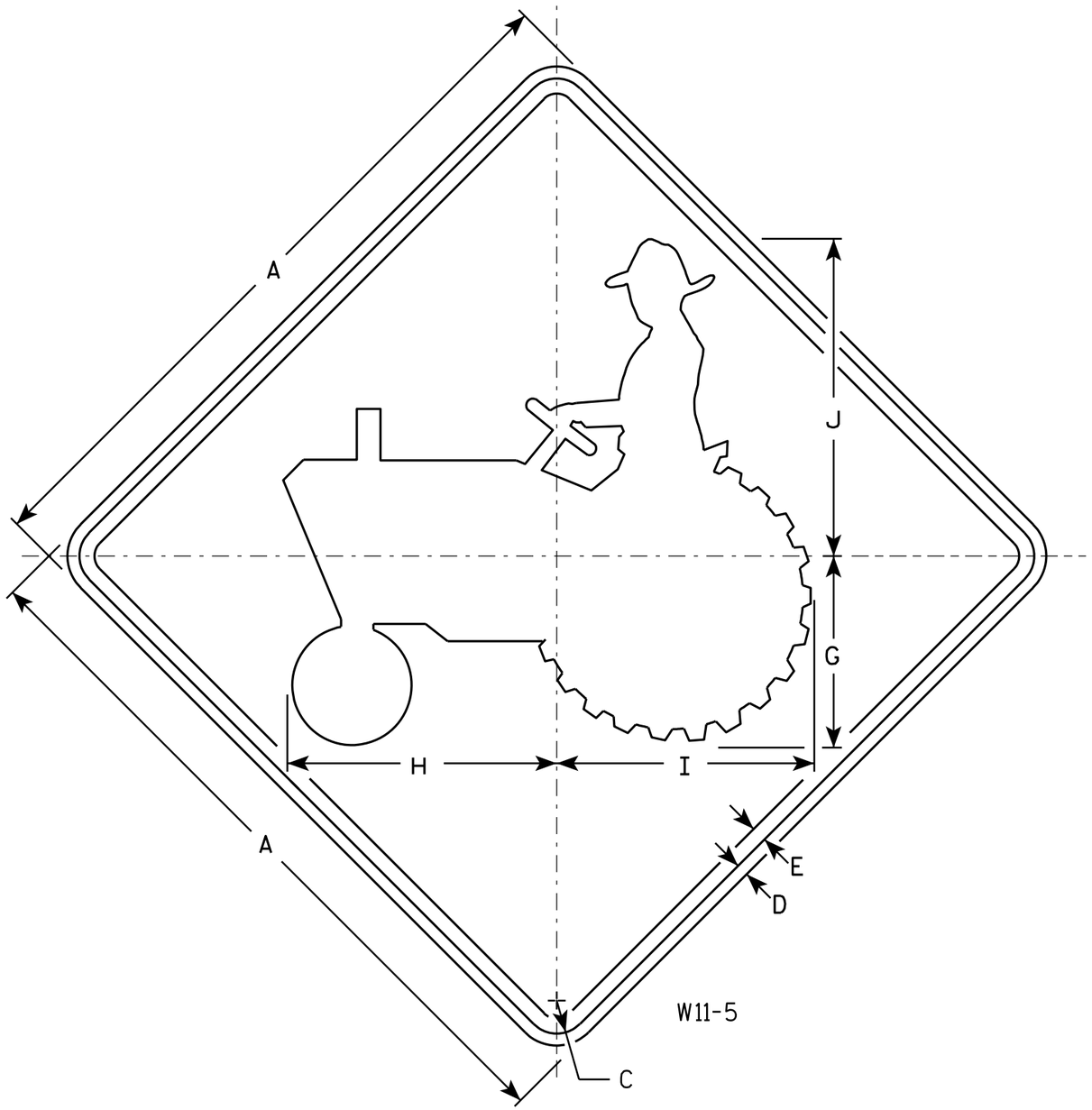
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 268 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		6 3/8	9	8 5/8	10 5/8																	4.0
2S	30		1 3/8	1/2	5/8		8	11 1/4	10 3/4	13 1/4																	6.25
2M	30		1 3/8	1/2	5/8		8	11 1/4	10 3/4	13 1/4																	6.25
3																											
4	36		1 5/8	5/8	3/4		9 5/8	13 1/2	12 7/8	16																	9.0
5	48		2 1/4	3/4	1		12 3/4	18	17 1/4	21 1/8																	16.0

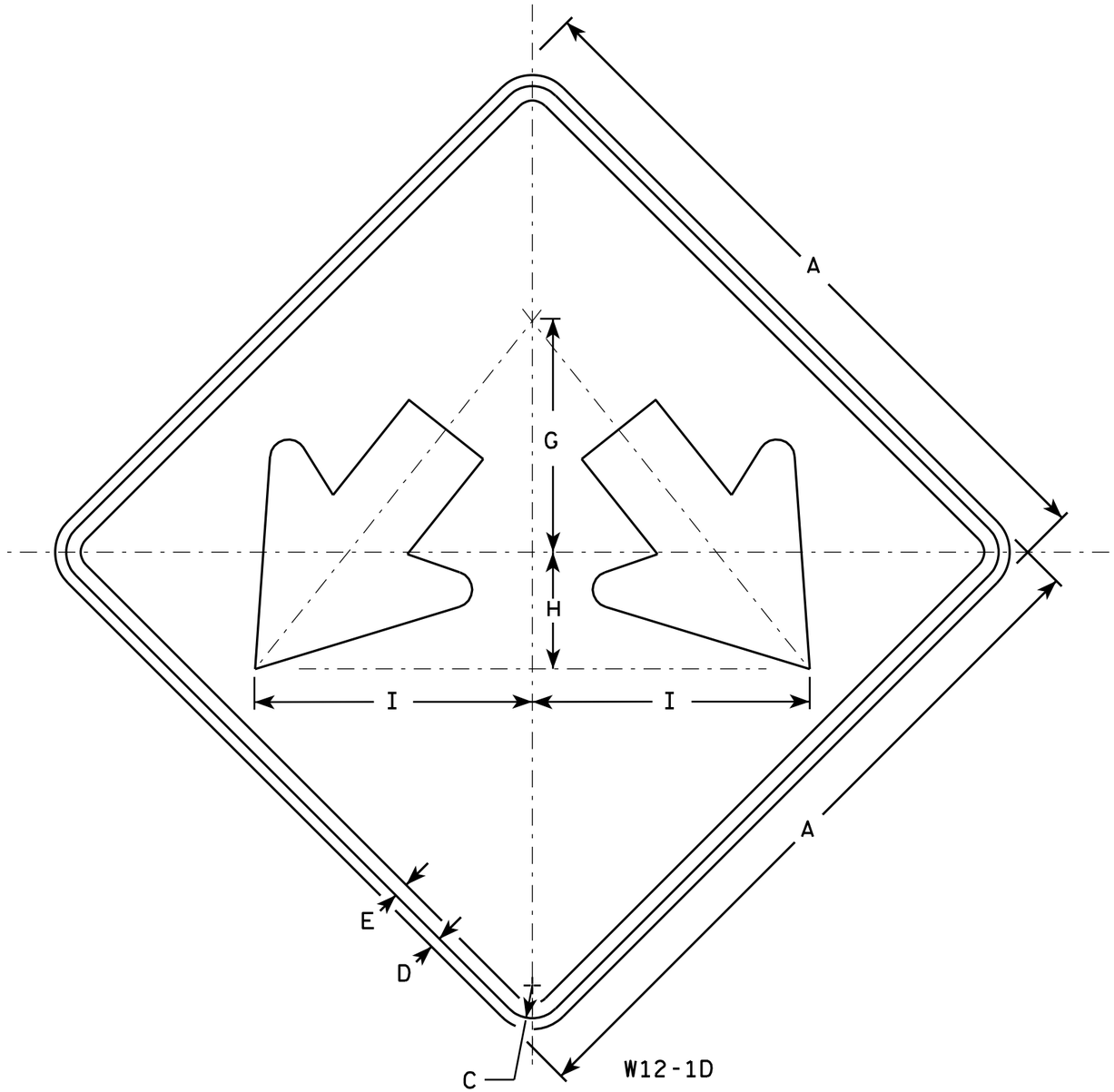
STANDARD SIGN
W11-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

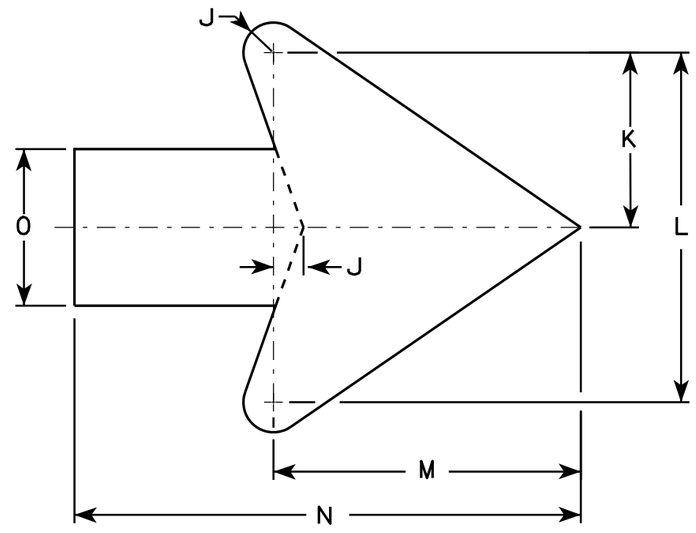
DATE 3/13/15 PLATE NO. W11-5.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 269	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 270	E

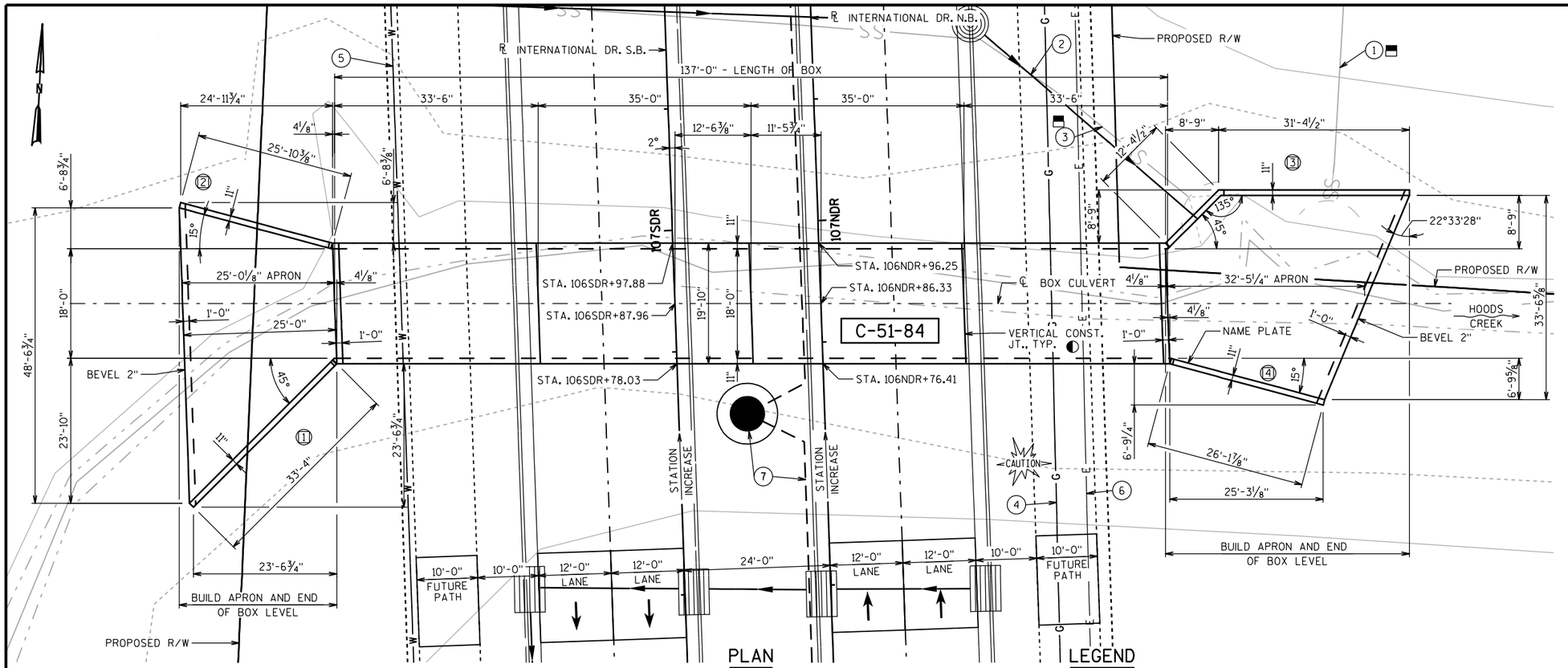
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000

WISDOT/CADDS SHEET 42

7

7

STATE PROJECT NUMBER
2704-00-75



PLAN

SINGLE CELL CONCRETE BOX CULVERT

UTILITY NOTES

1. EXISTING VILLAGE OF MOUNT PLEASANT 30" STORM SEWER TO REMAIN
2. EXISTING VILLAGE OF MOUNT PLEASANT 84" STORM SEWER TO BE REPLACED
3. PROPOSED WISDOT 84" STORM SEWER
4. PROPOSED WE ENERGIES UNDERGROUND GAS LINE
5. PROPOSED RACINE WATER WORKS COMMISSION UNDERGROUND WATER LINE
6. PROPOSED WE ENERGIES UNDERGROUND ELECTRIC LINE
7. PROPOSED VILLAGE OF MOUNT PLEASANT LIGHTING

ABBREVIATIONS LIST

Q = FLOW
VEL. = VELOCITY
HW = HIGH WATER
DES. = DESIGN
F.I.S. = FLOOD INSURANCE STUDY

LEGEND

- PLACE 18" (MIN.) WIDE RUBBERIZED MEMBRANE WATERPROOFING ON TOP SLAB AND EXTEND DOWN WALLS TO 6" BELOW THE TOP OF THE BOTTOM SLAB AT VERTICAL CONSTRUCTION JOINTS.
- PLACE 18" (MIN.) WIDE RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZONTAL CONSTRUCTION JOINT IN THE WING.
- UNDERCUT 1'-0", EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES, PLACE GEOTEXTILE TYPE 'C' AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND FOOTPRINT OF CULVERT AND WINGWALL APRONS ON EACH SIDE AND BETWEEN CUT OFF WALLS.
- IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY PROVIDE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.
- STORM SEWER TO TIE INTO WINGWALL. SEE WINGWALL ELEVATION VIEW ON "OUTLET APRON & WING DETAILS (2 OF 4)" SHEET FOR MORE DETAIL.
- (3) WINGWALL NUMBER

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION, QUANTITIES & NOTES
3. RIPRAP LIMITS
4. BOX CULVERT DETAILS (1 OF 2)
5. BOX CULVERT DETAILS (2 OF 2)
6. INLET APRON & WING DETAILS (1 OF 2)
7. INLET APRON & WING DETAILS (2 OF 2)
8. OUTLET APRON & WING DETAILS (1 OF 4)
9. OUTLET APRON & WING DETAILS (2 OF 4)
10. OUTLET APRON & WING DETAILS (3 OF 4)
11. OUTLET APRON & WING DETAILS (4 OF 4)
12. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.10
OPERATING RATING FACTOR: RF = 1.43
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

EARTH LOAD:

DESIGNED FOR FILL HEIGHT RANGE OF 2.50 TO 3.50 FEET.

MATERIAL PROPERTIES:

CONCRETE MASONRY _____ f'c = 3.5 KSI
BAR STEEL REINFORCEMENT _____ fy = 60 KSI

TRAFFIC DATA

INTERNATIONAL DRIVE

EXISTING ADT = 793 (2018)
FUTURE ADT = 14,140 (2038)
RDS = 40 MPH

HYDRAULIC DATA

100 YEAR FREQUENCY

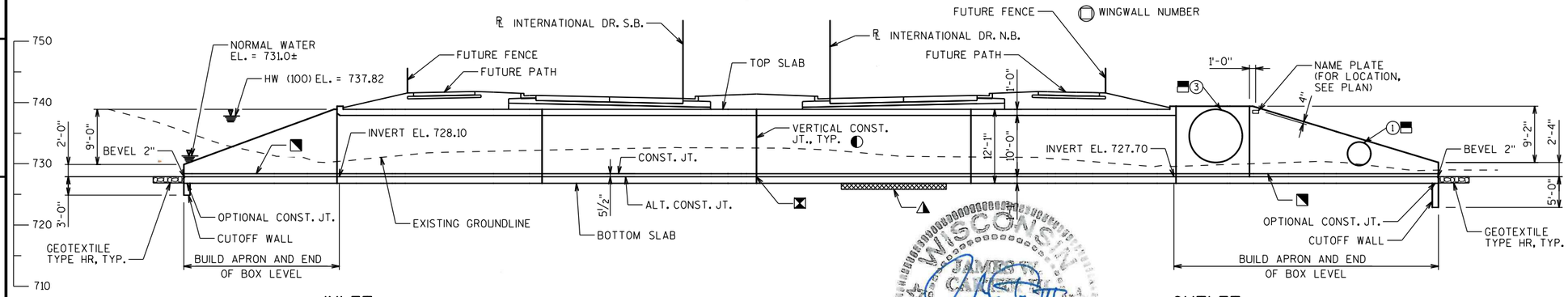
Q = 772 C.F.S. (DES.); 440 C.F.S. (F.I.S.)
VEL. = 5.3 F.P.S.
HW = EL. 737.82 (DES.); EL. 735.92 (F.I.S.)
WATERWAY AREA = 146 SQ.FT.
DRAINAGE AREA = 2.8 SQ.MI.
ROADWAY OVERTOPPING = N.A.
SCOUR CODE = 8

2 YEAR FREQUENCY

Q = 212 C.F.S.
VEL. = 2.5 F.P.S.
HW = EL. 734.01

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300



INLET

LONG. SECTION

(LOOKING NORTH - NORMAL TO BOX AND ALONG NORTH WINGWALL FACES)

OUTLET

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB 11414 W. PARK PLACE MILWAUKEE, WI 53224 (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher (APR 25 2018) 4/25/18
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-51-84

INTERNATIONAL DRIVE OVER HOODS CREEK

COUNTY	~~TOWN/CITY~~/VILLAGE
RACINE	MOUNT PLEASANT

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JJO	JWC	JJO	JWC

GENERAL PLAN & ELEVATION

SHEET 1 OF 12

WISCONSIN PROFESSIONAL ENGINEER 04-25-2018

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Dr\Structures\C-51-84\Plan\01 GP.dgn PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 20:1

STATE PROJECT NUMBER
2704-00-75

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
206.2000.001	EXCAVATION FOR STRUCTURES CULVERTS C-51-84	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	4,192
311.0110	BREAKER RUN	TON	379
504.0100	CONCRETE MASONRY CULVERTS	CY	418
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	50,060
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	8,350
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	50
606.0200	RIPRAP MEDIUM	CY	330
645.0105	GEOTEXTILE TYPE C	SY	650
645.0120	GEOTEXTILE TYPE HR	SY	663
SPV.0105.001	TEMPORARY WATER DIVERSION CULVERT C-51-84	LS	1
	NON-BID ITEMS		
	PREFORMED FILLER	SIZE	1/2", 3/4"
	NAME PLATE	EACH	1

ALL ITEMS ARE CATEGORY 2000

GENERAL NOTES

DESIGN IS IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION, 2014 WITH ALL INTERIM REVISIONS THROUGH 2016, UNLESS OTHERWISE NOTED.

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFY THE BAR SIZE. ALL BAR STEEL REINFORCEMENT ARE ENGLISH DESIGNATION.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WisCRS), RACINE COUNTY, NAD83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (1991).

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

NAME PLATE SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "CONCRETE MASONRY CULVERTS". REFER TO S.D.D. "NAME PLATE (STRUCTURES)" FOR NAME PLATE DETAILS.

CONSTRUCT C-51-84 WHILE INTERNATIONAL DRIVE IS CLOSED.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE OR BREAKER RUN SHALL BE BACKFILLED WITH "BACKFILL STRUCTURE TYPE B" TO THE ELEVATION SHOWN IN THE SECTION THRU BOX CULVERT. FILL ABOVE THE BACKFILL IS INCLUDED IN THE EARTHWORK QUANTITIES IN THE ROAD PLANS.

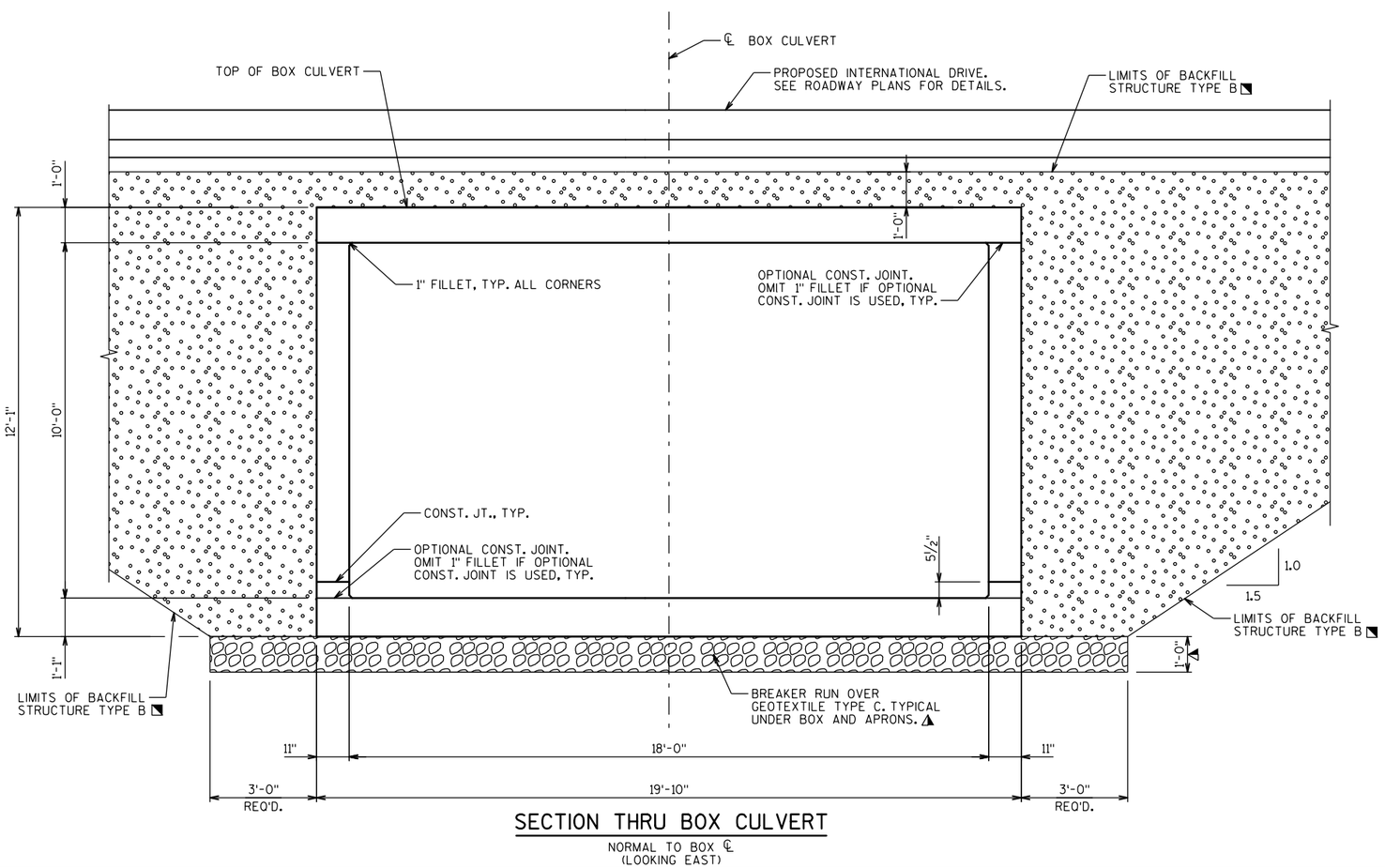
◥ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS (C-51-84)" SHALL BE THE EXISTING GROUND LINE OR EXISTING STREAM BED.

◭ UNDERCUT 1'-0". EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

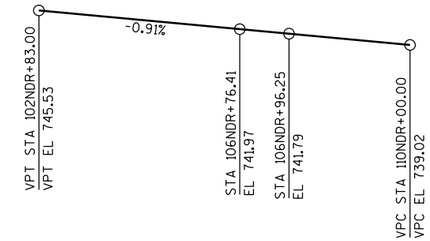
THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED. THE ALTERNATE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALL QUANTITIES AND BID PRICES.

THE CONTACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL AND ITS CORRESPONDING STANDARDS. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".



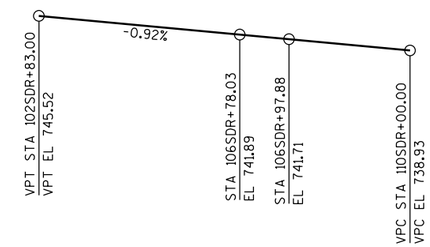
SECTION THRU BOX CULVERT

NORMAL TO BOX ℄
(LOOKING EAST)



PROFILE GRADE LINE - INTERNATIONAL DR. N.B.

(NDR ALIGNMENT)



PROFILE GRADE LINE - INTERNATIONAL DR. S.B.

(SDR ALIGNMENT)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

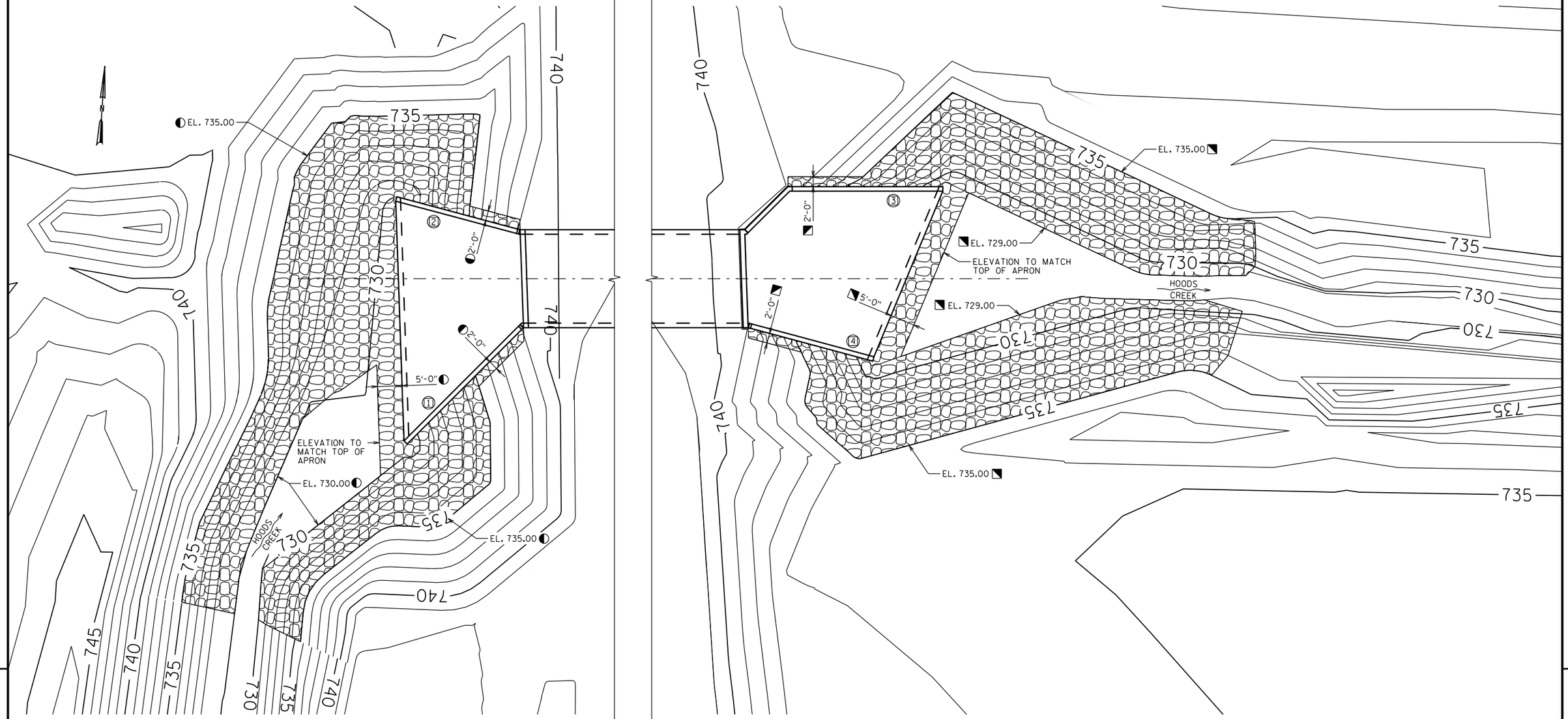
DRAWN BY	JJO	PLANS CK'D.	JWC

CROSS SECTION, QUANTITIES & NOTES

SHEET 2 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Drive\Plans\Structures\C-51-84\Design\C-51-84 Cross Section, Quantities & Notes.dgn PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 4:1

STATE PROJECT NUMBER
2704-00-75



RIPRAP LIMITS PLAN

LEGEND

- PLACE RIPRAP MEDIUM 2' WIDE ALONG THE LENGTH OF THE WINGWALLS AND 5' WIDE ALONG THE APRON FACE. ALSO, PLACE RIPRAP ON ANY DISTURBED AREA BETWEEN EL. 730.00 AND EL. 735.00. RIPRAP SHALL BE 18" THICK MINIMUM. PLACE RIPRAP OVER GEOTEXTILE TYPE HR.
- PLACE RIPRAP MEDIUM 2' WIDE ALONG THE LENGTH OF THE WINGWALLS AND 5' WIDE ALONG THE APRON FACE. ALSO, PLACE RIPRAP ON ANY DISTURBED AREA BETWEEN EL. 729.00 AND EL. 735.00. RIPRAP SHALL BE 18" THICK MINIMUM. PLACE RIPRAP OVER GEOTEXTILE TYPE HR.
- (1) WINGWALL NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

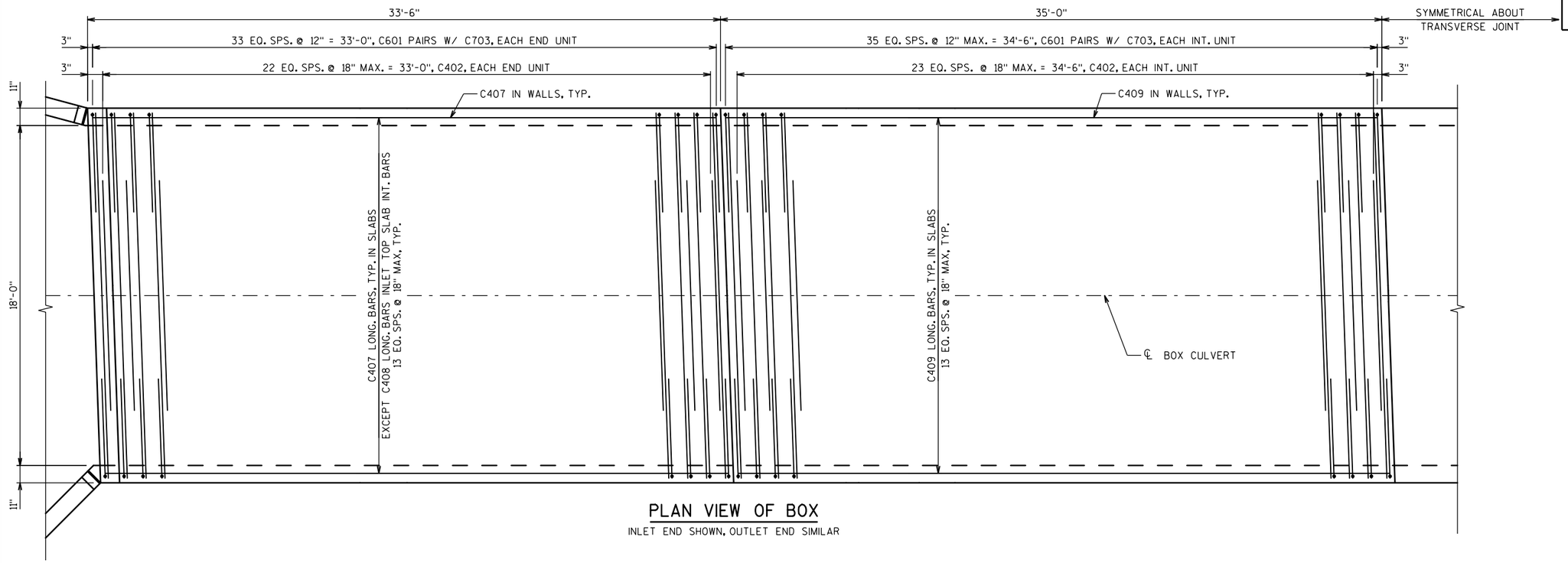
DRAWN BY JJO | PLANS CK'D. JWC

RIPRAP LIMITS

SHEET 3 OF 12

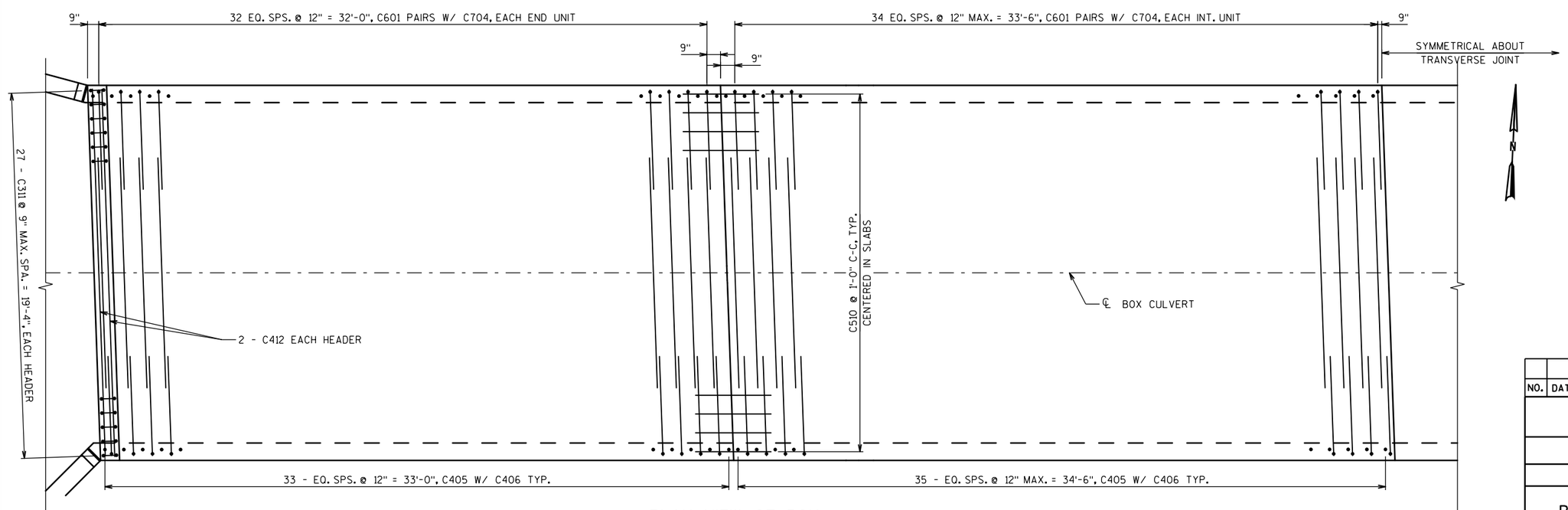
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternalRoads\4.2.5\2704-00-75_C-51-84_RIPRAP_LIMITS.dgn PLOT DATE : 4/25/2018 8:05:53 AM PLOT BY : HAnders PLOT NAME : $FILE$ PLOT SCALE : 20:1

STATE PROJECT NUMBER
2704-00-75



PLAN VIEW OF BOX

INLET END SHOWN, OUTLET END SIMILAR



PLAN VIEW OF BOX

INLET END SHOWN, OUTLET END SIMILAR

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

DRAWN BY EAJ | PLANS CK'D. MSS

BOX CULVERT DETAILS (1 OF 2)

SHEET 4 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalDetails\DGN Files\4.2_51284080251.dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 5.33333:1

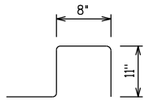
STATE PROJECT NUMBER
2704-00-75

BILL OF BARS

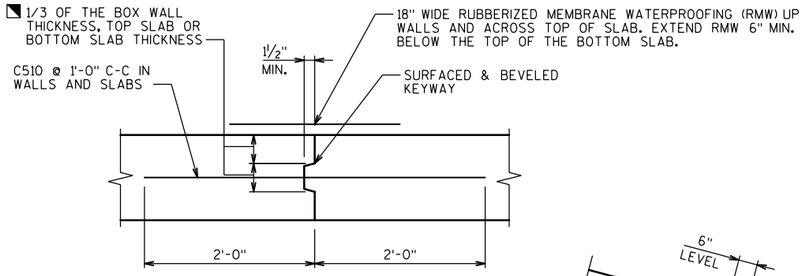
NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST OR FIRST TWO DIGITS
OF A BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
C601		1104	11'-7"	X		CORNERS - TOP & BOTTOM
C402		94	12'-9"			EXT. TRANS. TOP SLAB
C703		280	19'-5"			INT. TRANS. TOP & BOTTOM SLAB
C704		272	12'-2"			INT. TRANS. TOP & BOTTOM SLAB
C405		280	10'-4"			WALL VERTICAL
C406		280	2'-5"			WALL DOWEL
C407		110	33'-1"			LONGIT. - 33'-6" PANELS
C408		14	32'-10"			LONGIT. - 33'-6" PANELS INLET INT. TOP SLAB
C409		124	34'-7"			LONGIT. - 35'-0" PANELS
C510		186	4'-0"			CONST. JOINT DOWEL
C311		54	2'-9"	X		HEADER - STIRRUP
C412		4	19'-5"			HEADER

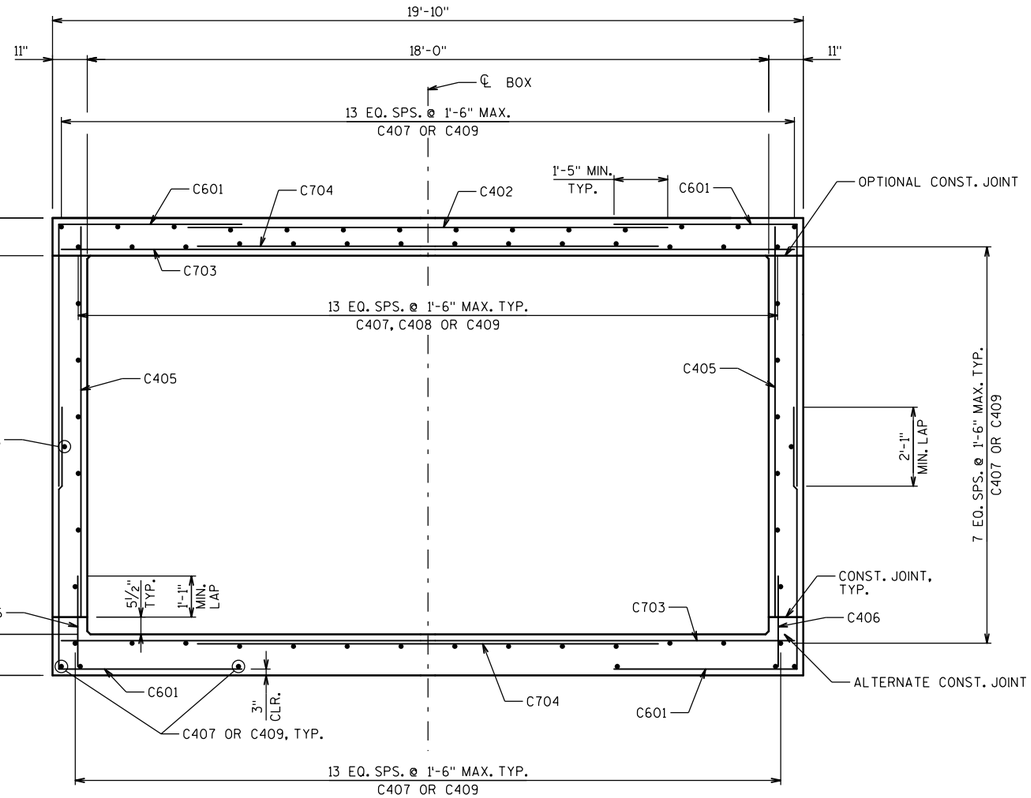
C601



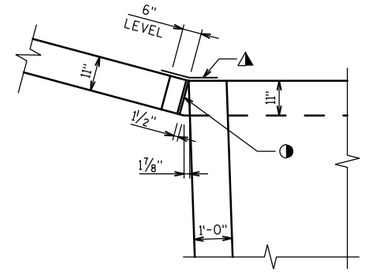
C311



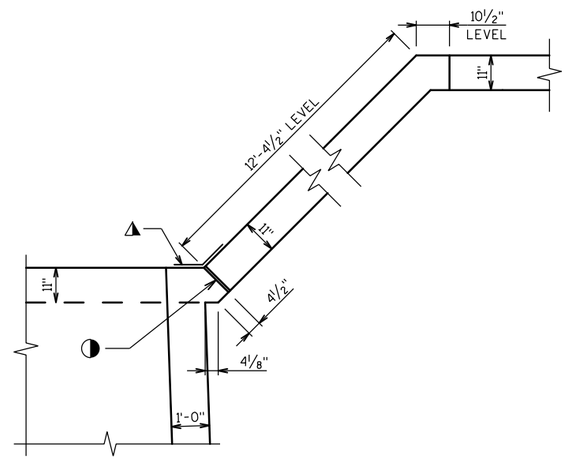
VERTICAL CONSTRUCTION JOINT



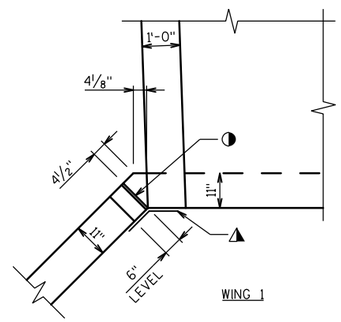
SECTION THRU CULVERT
(NORMAL TO BOX ℄)



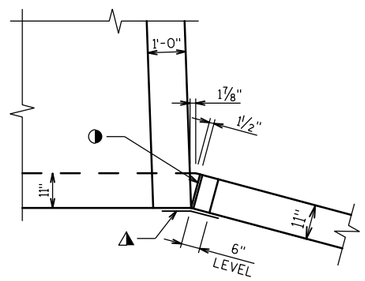
WING 2



WING 3

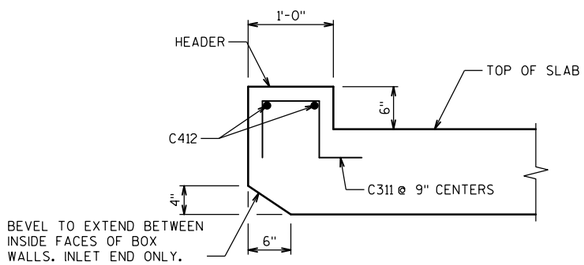


WING 1



WING 4

CORNER DETAILS



SECTION THRU TOP HEADER

NOTES

1. IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.
2. RMW EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL. (FLUSH WITH FACE OF CONCRETE)
3. 3/4" FILLER TO EXTEND FROM HORIZONTAL CONST. JOINT TO TOP OF WING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

DRAWN BY EAJ | PLANS CK'D. MSS

BOX CULVERT DETAILS (2 OF 2)

SHEET 5 OF 12

8

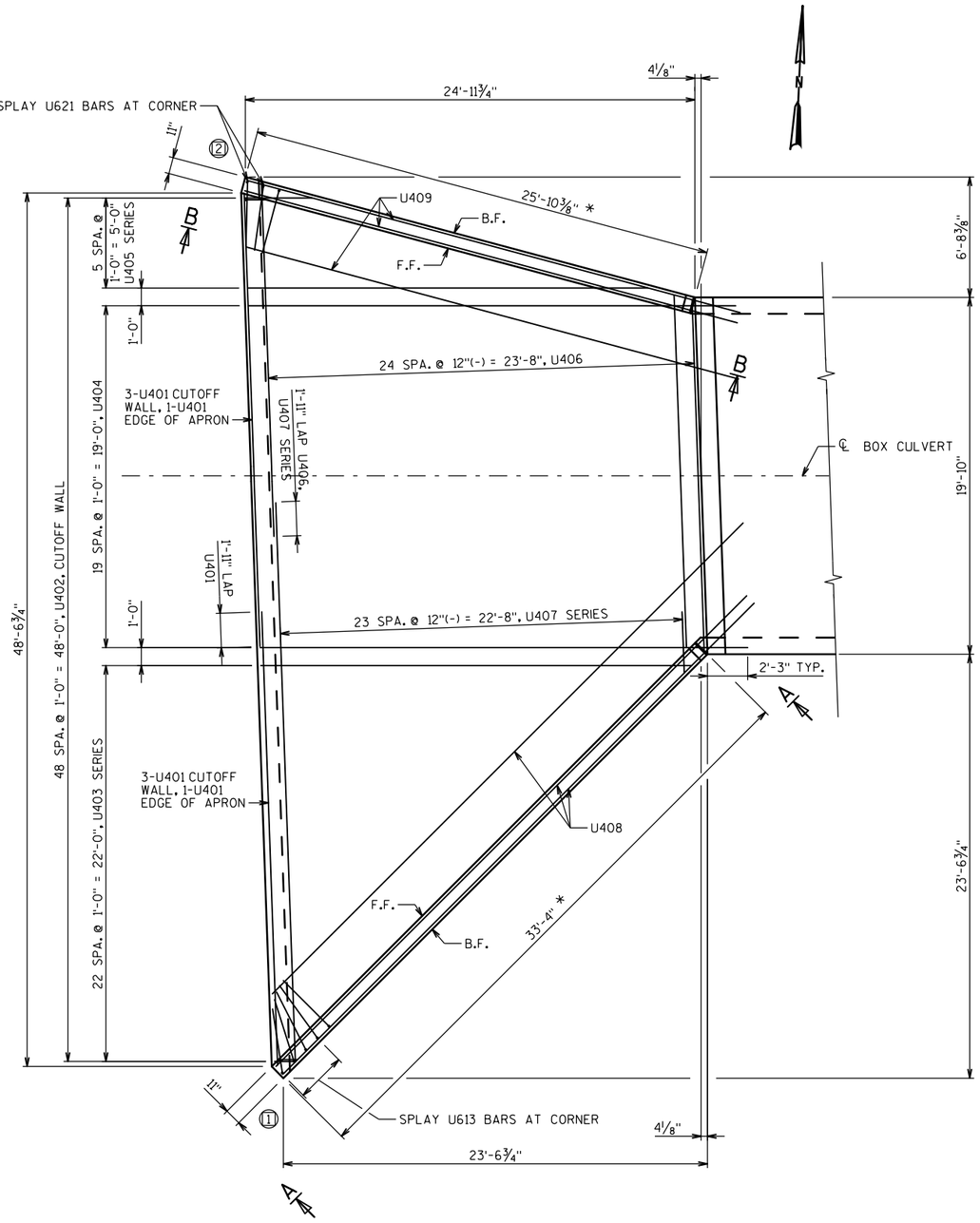
8

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternalProjectFiles\4.2.12\Structures\27040005-Sht-Box Culvert Details 2.dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 4:1

STATE PROJECT NUMBER
2704-00-75

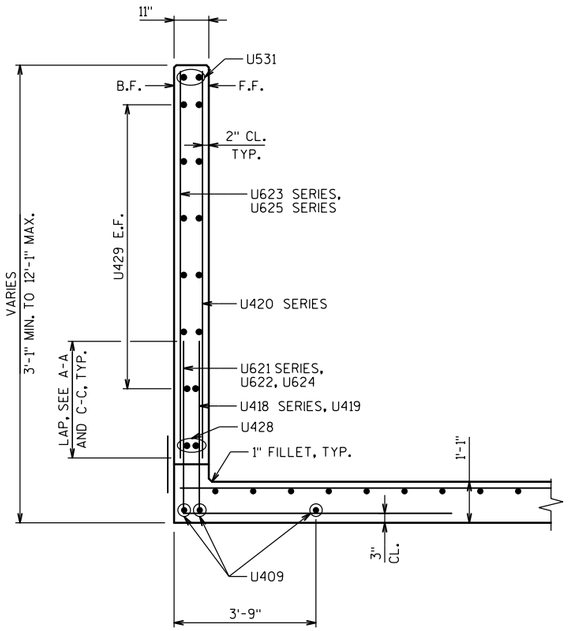
LEGEND

- ▲ RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONST. JOINT IN WING
- * WING LENGTH INCLUDES ¾" FILLER
- (11) WINGWALL NUMBER

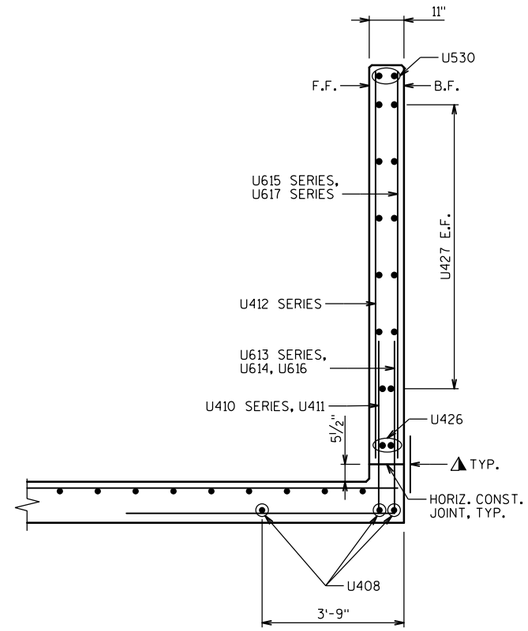


INLET APRON PLAN

APRON AND CUTOFF WALL REINFORCEMENT SHOWN
SEE OTHER DETAILS FOR WING REINFORCEMENT



WING 2



WING 1

SECTION THRU WINGS

NORMAL TO WING WALLS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

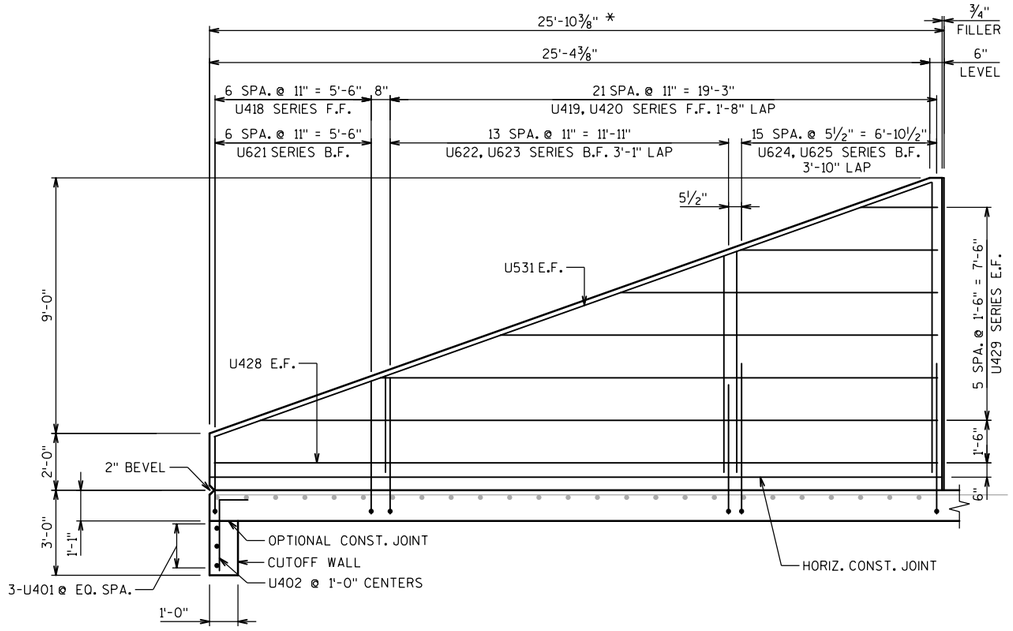
DRAWN BY HDA | PLANS CK'D. MPM

INLET APRON & WING DETAILS (1 OF 2)

SHEET 6 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalBridgeDesign\Sheets\4.2.51.28.08.355.1.dgn PLOT DATE : 4/25/2018 8:03:51 AM PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 4:1

STATE PROJECT NUMBER
2704-00-75

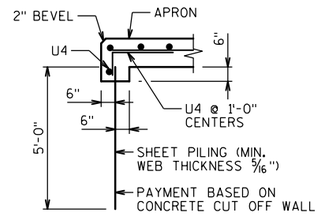


SECTION B-B

WING 2

LEGEND

* WING LENGTH INCLUDES ¾" FILLER



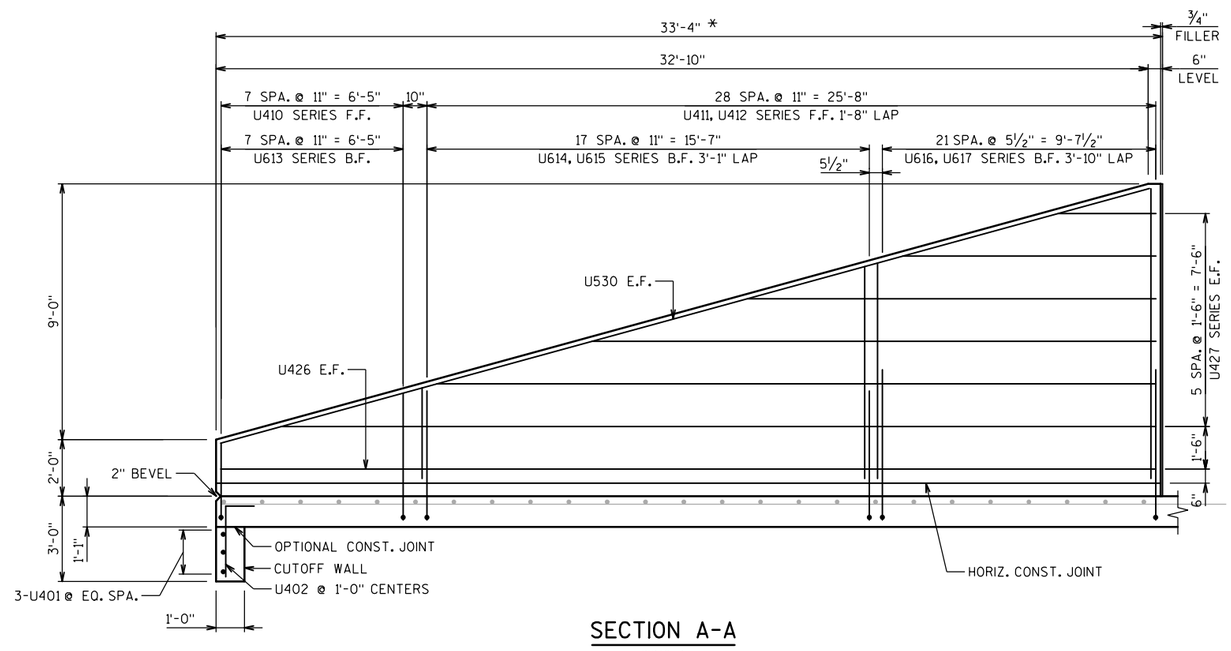
ALTERNATE CUT-OFF WALL

BILL OF BARS

NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST OR FIRST TWO DIGITS
OF A BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES ⚠	LOCATION
U401		8	25'-3"			CUTOFF WALL & EDGE OF APRON
U402		49	3'-5"	X		CUTOFF WALL
U403		23	12'-7"		X	APRON - LONG.
U404		20	27'-2"			APRON - LONG.
U405		6	13'-0"		X	APRON - LONG.
U406		25	19'-7"			APRON - TRANS.
U407		24	17'-4"		X	APRON - TRANS.
U408		3	37'-0"			APRON - LONG.
U409		3	28'-4"			APRON - LONG.
U410	X	8	3'-7"		X	WING 1 - VERT. - F.F.
U411	X	29	3'-2"			WING 1 - VERT. - F.F.
U412	X	29	6'-9"		X	WING 1 - VERT. - F.F.
U613	X	8	7'-1"	X	X	WING 1 - VERT. - B.F.
U614	X	18	11'-9"	X		WING 1 - VERT. - B.F.
U615	X	18	5'-5"		X	WING 1 - VERT. - B.F.
U616	X	22	13'-2"	X		WING 1 - VERT. - B.F.
U617	X	22	9'-0		X	WING 1 - VERT. - B.F.
U418	X	7	3'-8"		X	WING 2 - VERT. - F.F.
U419	X	22	3'-2"			WING 2 - VERT. - F.F.
U420	X	22	6'-11"		X	WING 2 - VERT. - F.F.
U621	X	7	7'-2"	X	X	WING 2 - VERT. - B.F.
U622	X	14	11'-9"	X		WING 2 - VERT. - B.F.
U623	X	14	5'-8"		X	WING 2 - VERT. - B.F.
U624	X	16	13'-2"	X		WING 2 - VERT. - B.F.
U625	X	16	9'-1"		X	WING 2 - VERT. - B.F.
U426	X	2	32'-11"			WING 1 - HORIZ.
U427	X	12	17'-1"		X	WING 1 - HORIZ.
U428	X	2	25'-5"			WING 2 - HORIZ.
U429	X	12	13'-3"		X	WING 2 - HORIZ.
U530	X	2	33'-11"			WING 1 - HORIZ. - TOP
U531	X	2	26'-9"			WING 2 - HORIZ. - TOP

⚠ LENGTH SHOWN FOR THE BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



SECTION A-A

WING 1

MARK	A
U402	1'-0"
U613	3'-8"
U614	7'-4"
U616	8'-0"
U621	3'-8"
U622	7'-4"
U624	8'-0"

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
U403	1 SERIES OF 23	1'-2" TO 23'-11"
U405	1 SERIES OF 6	3'-9" TO 22'-3"
U407	1 SERIES OF 24	3'-4" TO 31'-4"
U410	1 SERIES OF 8	2'-8" TO 4'-5"
U412	1 SERIES OF 29	3'-3" TO 10'-3"
U613	1 SERIES OF 8	6'-2" TO 7'-11"
U615	1 SERIES OF 18	3'-3" TO 7'-7"
U617	1 SERIES OF 22	7'-8" TO 10'-3"
U418	1 SERIES OF 7	2'-8" TO 4'-8"
U420	1 SERIES OF 22	3'-6" TO 10'-3"
U621	1 SERIES OF 7	6'-2" TO 8'-2"
U623	1 SERIES OF 14	3'-6" TO 7'-9"
U625	1 SERIES OF 16	7'-11" TO 10'-3"
U427	2 SERIES OF 6	3'-5" TO 30'-9"
U429	2 SERIES OF 6	2'-8" TO 23'-10"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

DRAWN BY HDA | PLANS CK'D. MPM

INLET APRON & WING DETAILS (2 OF 2)

SHEET 7 OF 12

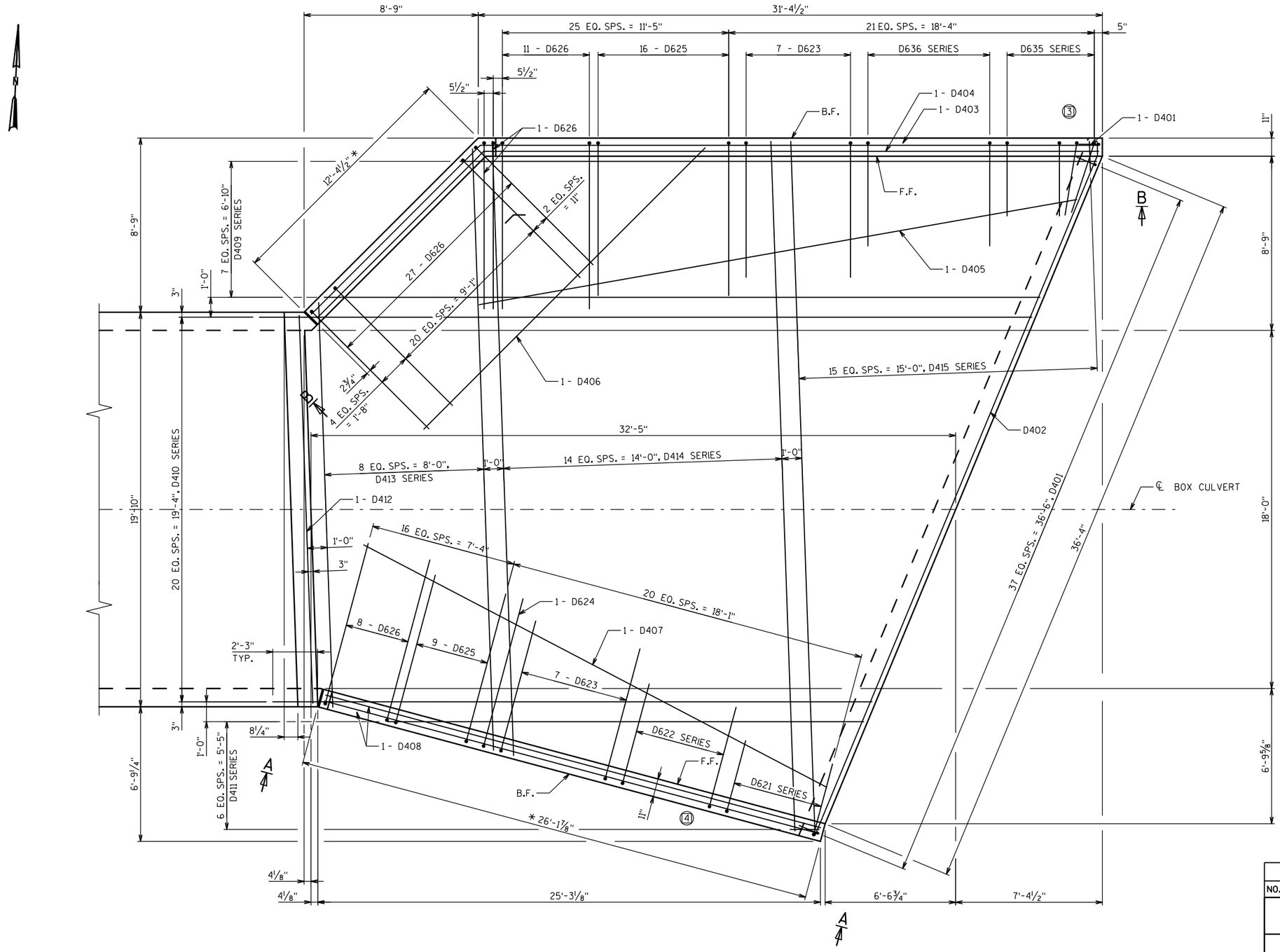
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternalFloor\DMI\cds\4.2_51284080352_SQ.dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 5.33333:1

STATE PROJECT NUMBER
2704-00-75

LEGEND

* WING LENGTH INCLUDES 3/4" FILLER

(1) WINGWALL NUMBER



OUTLET APPRON PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

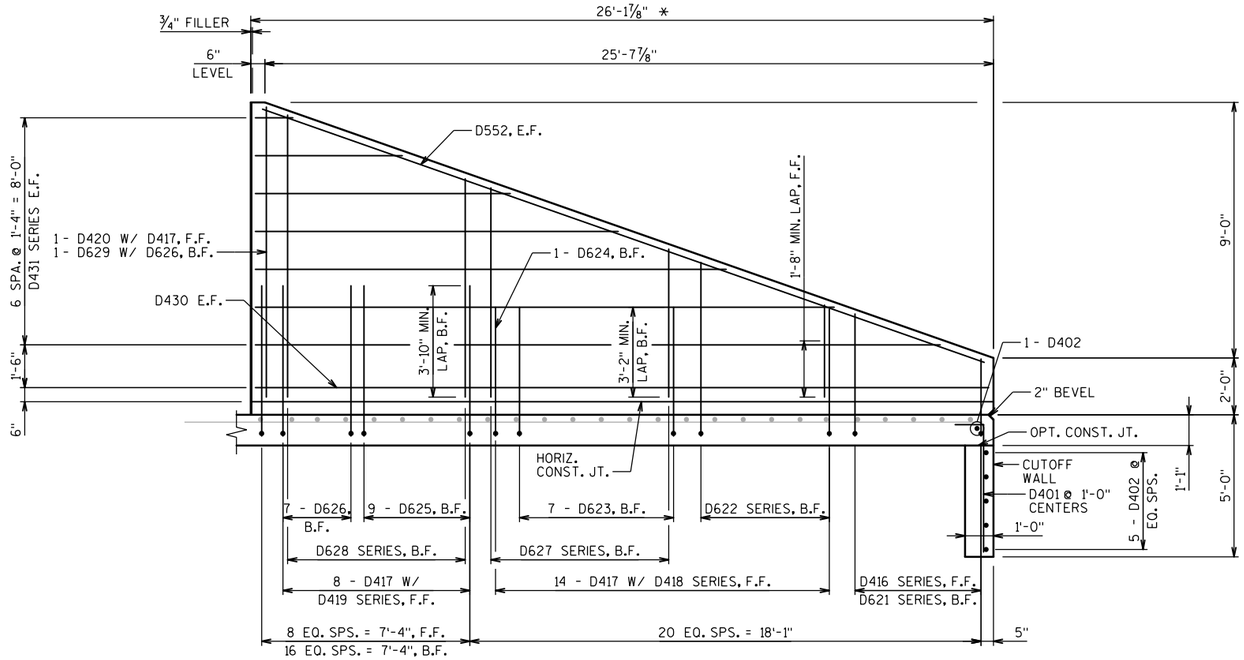
DRAWN BY EAJ | PLANS CK'D. MPM

OUTLET APRON & WING DETAILS (1 OF 4)

SHEET 8 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalDWTEcds\4.2.5.2.8.8.0.3.5.3.5.6.dgn PLOT DATE : 8/25/2020 PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 2.66667:1

STATE PROJECT NUMBER
2704-00-75

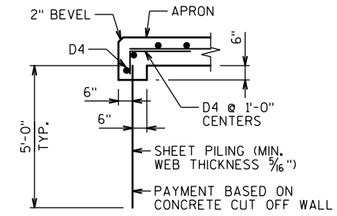


SECTION A-A

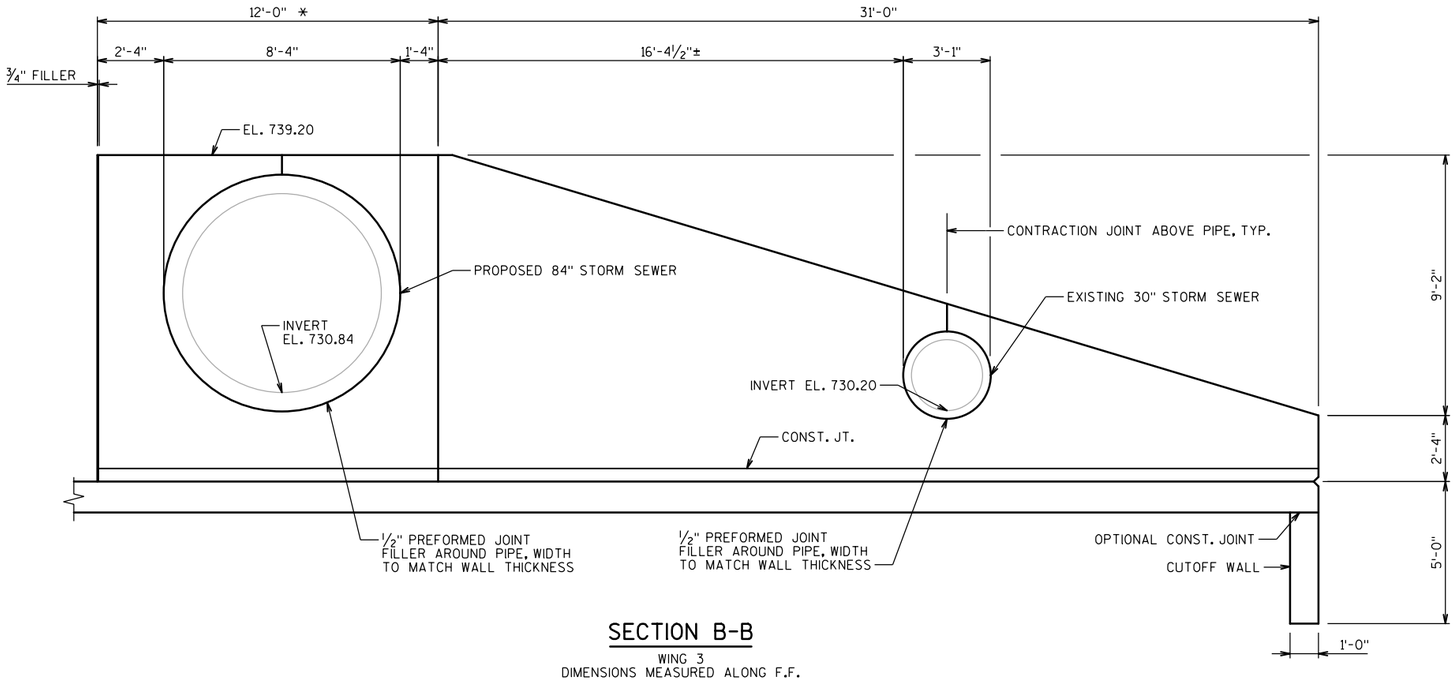
WING 4

LEGEND

* WING LENGTH INCLUDES ¾" FILLER



ALTERNATE CUT-OFF WALL



SECTION B-B

WING 3
DIMENSIONS MEASURED ALONG F.F.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

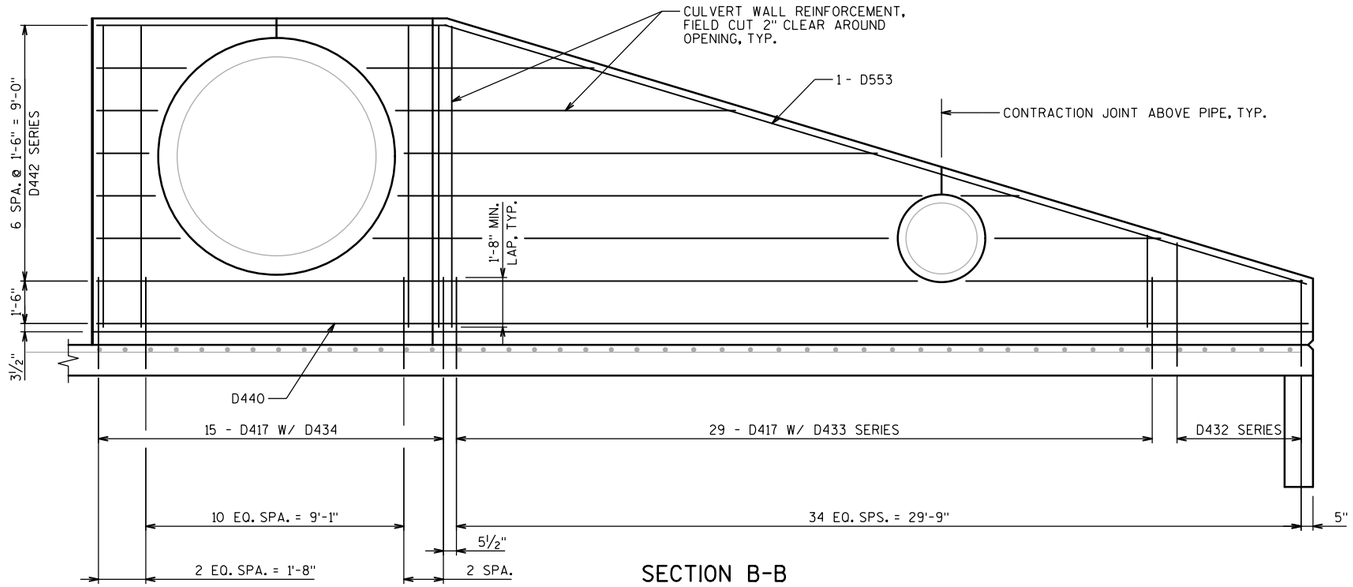
DRAWN BY EAJ | PLANS CK'D. MPM

OUTLET APRON & WING DETAILS (2 OF 4)

SHEET 9 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternalFlow\DWGs\4.2_27040005-INT-DWG-0[illegible].dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 5.33333:1

STATE PROJECT NUMBER
2704-00-75

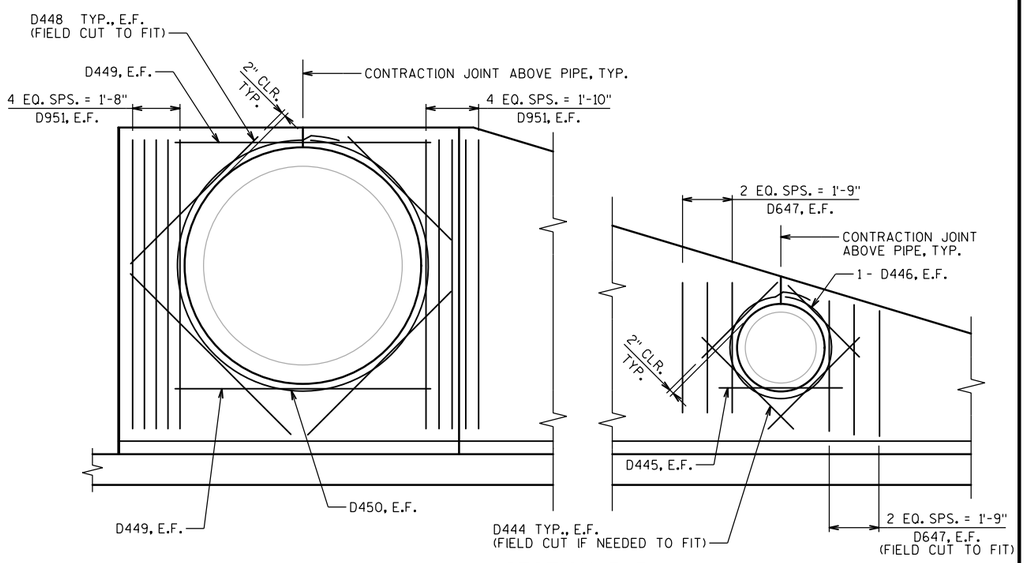


SECTION B-B

WING 3 - F.F.

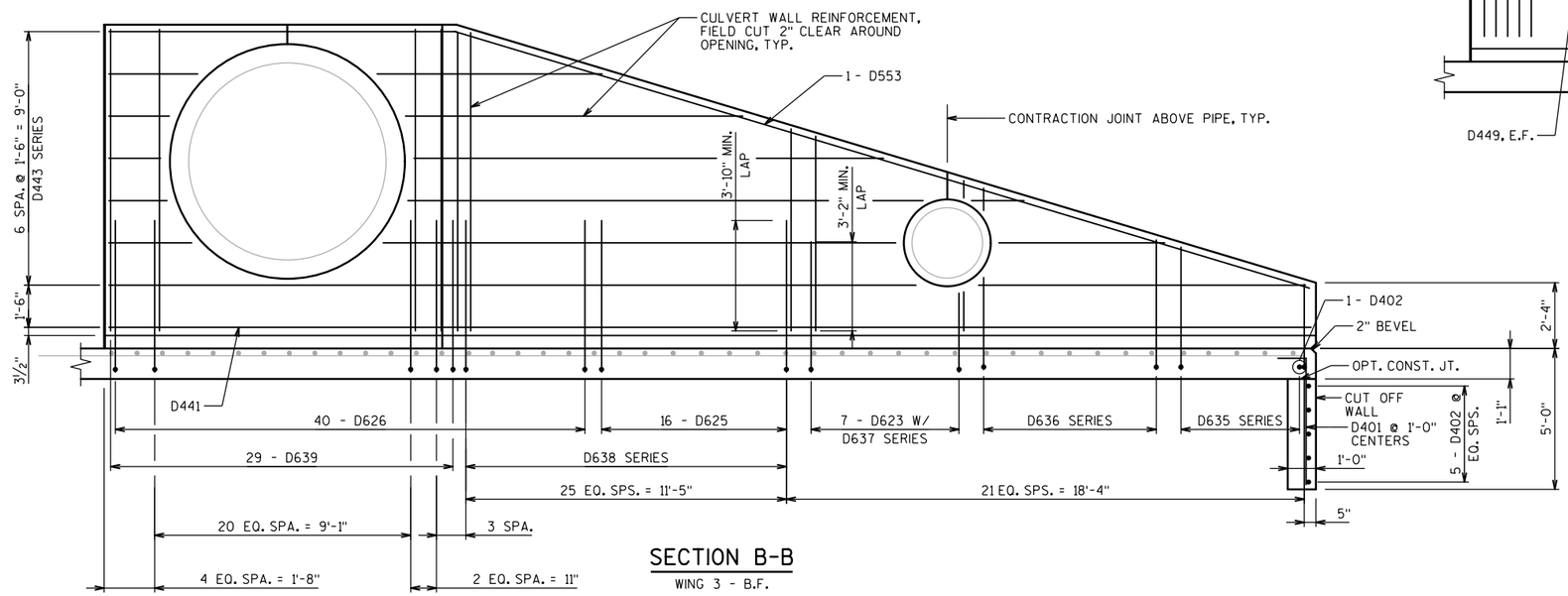
NOTES

FOR ALTERNATE CUTOFF WALL DETAIL, SEE SHEET "OUTLET APRON & WING DETAILS (2 OF 4)"



SECTION B-B

WING 3 - ADDITIONAL REINFORCMENT AT OPENINGS



SECTION B-B

WING 3 - B.F.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

DRAWN BY EAJ | PLANS CK'D. MPM

OUTLET APRON & WING DETAILS (3 OF 4)

SHEET 10 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalCds\4.2.5\348080556.07.dgn PLOT DATE : 4/26/2018 10:55:07 AM PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 5.33333:1

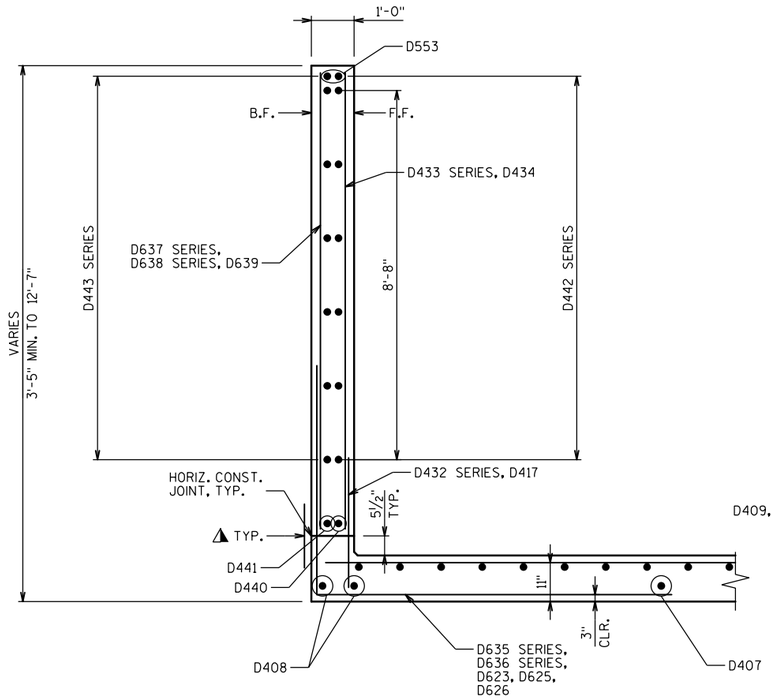
STATE PROJECT NUMBER
2704-00-75

BILL OF BARS

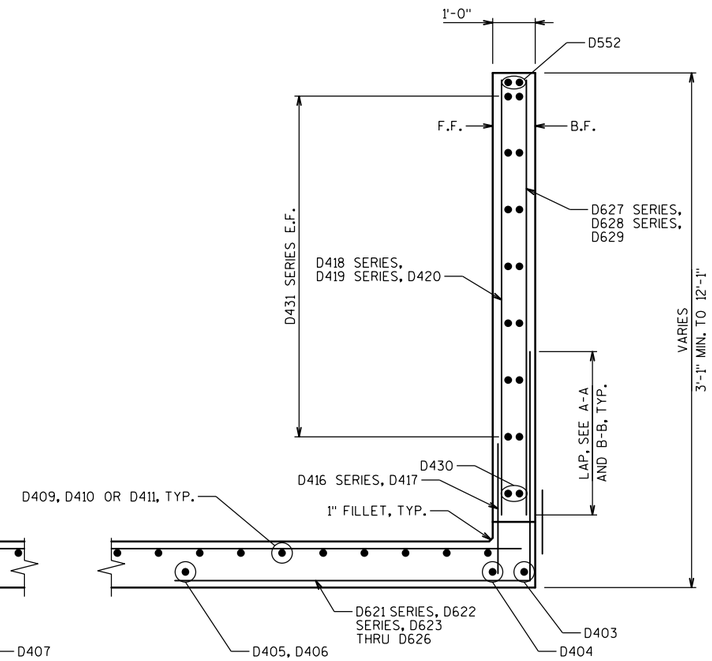
NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST OR FIRST TWO DIGITS
OF A BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR ⚠ SERIES	LOCATION
D401		39	5'-6"	X		CUTOFF WALL
D402		6	37'-9"	X		CUTOFF WALL
D403		1	43'-0"	X		APRON - LONG.
D404		1	42'-8"	X		APRON - LONG.
D405		1	30'-6"			APRON - LONG.
D406		1	20'-0"			APRON - LONG.
D407		1	26'-3"			APRON - LONG.
D408		2	25'-8"			APRON - LONG.
D409		8	33'-11"		X	APRON - LONG.
D410		21	34'-7"		X	APRON - LONG.
D411		7	12'-7"		X	APRON - LONG.
D412		1	19'-5"			APRON - TRANS.
D413		9	25'-2"		X	APRON - TRANS.
D414		15	32'-8"		X	APRON - TRANS.
D415		16	18'-1"		X	APRON - TRANS.
D416	X	6	3'-6"		X	WING 4 - VERT. F.F.
D417	X	67	3'-2"			WING 3 & 4 - VERT. F.F.
D418	X	14	5'-3"		X	WING 4 - VERT. F.F.
D419	X	8	8'-8"		X	WING 4 - VERT. F.F.
D420	X	1	10'-1"			WING 4 - VERT. F.F.
D621	X	6	7'-0"	X	X	WING 4 - VERT. B.F.
D622	X	6	10'-5"	X	X	WING 4 - VERT. B.F.
D623	X	14	11'-2"	X		WING 3 & 4 - VERT. B.F.
D624	X	1	12'-1"	X		WING 4 - VERT. B.F.
D625	X	25	12'-10"	X		WING 3 & 4 - VERT. B.F.
D626	X	48	13'-6"	X		WING 3 & 4 - VERT. B.F.
D627	X	8	6'-2"		X	WING 4 - VERT. B.F.
D628	X	16	8'-9"		X	WING 4 - VERT. B.F.
D629	X	1	10'-1"			WING 4 - VERT.
D430	X	2	25'-8"			WING 4 - HORIZ.
D431	X	14	12'-8"		X	WING 4 - HORIZ.
D432	X	6	3'-8"		X	WING 3 - VERT. F.F.
D433	X	29	6'-10"		X	WING 3 - VERT. F.F.
D434	X	15	10'-7"			WING 3 - VERT. F.F.
D635	X	6	7'-1"	X	X	WING 3 - VERT. B.F.
D636	X	8	10'-6"	X	X	WING 3 - VERT. B.F.
D637	X	7	6'-1"		X	WING 3 - VERT. B.F.
D638	X	27	8'-9"		X	WING 3 - VERT. B.F.
D639	X	29	10'-7"			WING 3 - VERT. B.F.
D440	X	1	42'-7"	X		WING 3 - HORIZ. F.F.
D441	X	1	43'-0"	X		WING 3 - HORIZ. B.F.
D442	X	7	27'-5"	X	X	WING 3 - HORIZ. F.F.
D443	X	7	27'-11"	X	X	WING 3 - HORIZ. B.F.
D444	X	8	5'-0"			WING 3 - ADDITIONAL BARS AT 30" STORM SEWER
D445	X	2	4'-1"			WING 3 - ADDITIONAL BARS AT 30" STORM SEWER
D446	X	2	12'-0"	X		WING 3 - ADDITIONAL BARS AT 30" STORM SEWER
D647	X	12	4'-8"			WING 3 - ADDITIONAL BARS AT 30" STORM SEWER
D448	X	8	8'-8"			WING 3 - ADDITIONAL BARS AT 30" STORM SEWER
D449	X	4	9'-0"			WING 3 - ADDITIONAL BARS AT 30" STORM SEWER
D450	X	2	28'-3"	X		WING 3 - ADDITIONAL BARS AT 30" STORM SEWER
D951	X	20	10'-3"			WING 3 - ADDITIONAL BARS AT 84" STORM SEWER
D552	X	2	27'-0"			WING 4 - HORIZ.- TOP
D553	X	2	31'-6"			WING 3- HORIZ.- TOP

⚠ LENGTH SHOWN FOR THE BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



WING 4



WING 3

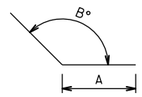
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
D409	1 SERIES OF 8	31'-11" TO 35'-11"
D410	1 SERIES OF 21	30'-3" TO 38'-11"
D411	1 SERIES OF 7	1'-4" TO 23'-10"
D413	1 SERIES OF 9	20'-3" TO 30'-2"
D414	1 SERIES OF 15	30'-9" TO 34'-7"
D415	1 SERIES OF 16	1'-5" TO 34'-9"
D416	1 SERIES OF 6	2'-8" TO 4'-3"
D418	1 SERIES OF 14	3'-2" TO 7'-3"
D419	1 SERIES OF 8	7'-7" TO 9'-10"
D621	1 SERIES OF 6	6'-2" TO 7'-9"
D622	1 SERIES OF 6	9'-7" TO 11'-2"
D627	1 SERIES OF 8	5'-1" TO 7'-3"
D628	1 SERIES OF 16	7'-7" TO 10'-0"
D431	2 SERIES OF 7	1'-3" TO 24'-1"
D432	1 SERIES OF 6	3'-0" TO 4'-3"
D433	1 SERIES OF 29	3'-2" TO 10'-6"
D635	1 SERIES OF 6	6'-6" TO 7'-8"
D636	1 SERIES OF 8	9'-7" TO 11'-5"
D637	1 SERIES OF 7	5'-3" TO 6'-10"
D638	1 SERIES OF 27	7'-1" TO 10'-6"
D442	1 SERIES OF 7	12'-5" TO 42'-5"
D443	1 SERIES OF 7	12'-11" TO 42'-11"

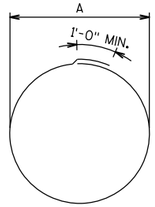
SECTION THRU WINGS

(NORMAL TO WING WALLS)

MARK	A
D401	1'-0"
D621	3'-8"
D622	5'-2"
D623	6'-9"
D624	7'-8"
D625	7'-8"
D626	8'-4"
D635	3'-8"
D636	5'-2"



MARK	A	B
D402	0'-8"	157
D403	12'-1"	135
D404	11'-11"	135
D440	11'-10"	135
D441	12'-0"	135
D442	11'-10"	135
D443	12'-0"	135



MARK	A
D446	3'-6"
D450	8'-8"

LEGEND

⚠ RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONST. JOINT IN WING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

DRAWN BY EAJ | PLANS CK'D. MPM

OUTLET APRON & WING DETAILS (4 OF 4)

SHEET 11 OF 12

281

8

8

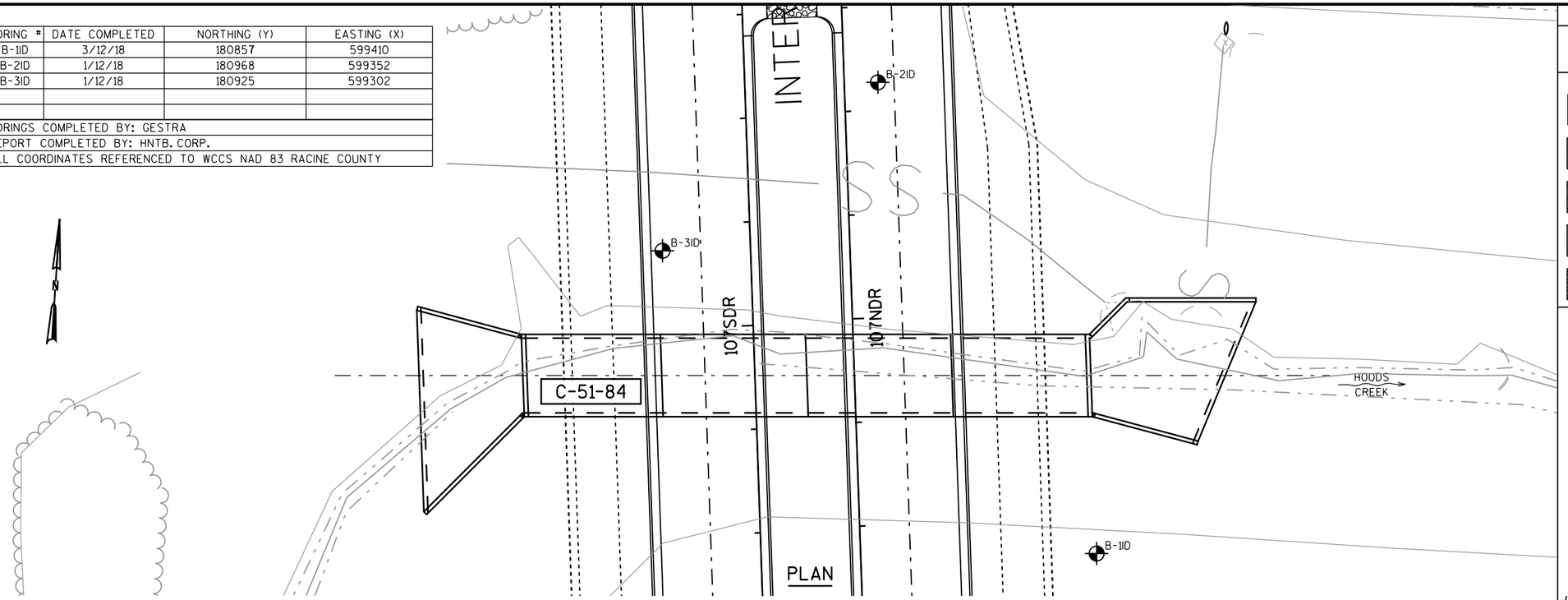
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-InternationalTrade\4.2.1_DGN\4.2.1_27040005-Bridge.dgn PLOT DATE : 4/26/2018 10:56:14 AM PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 5.33333:1

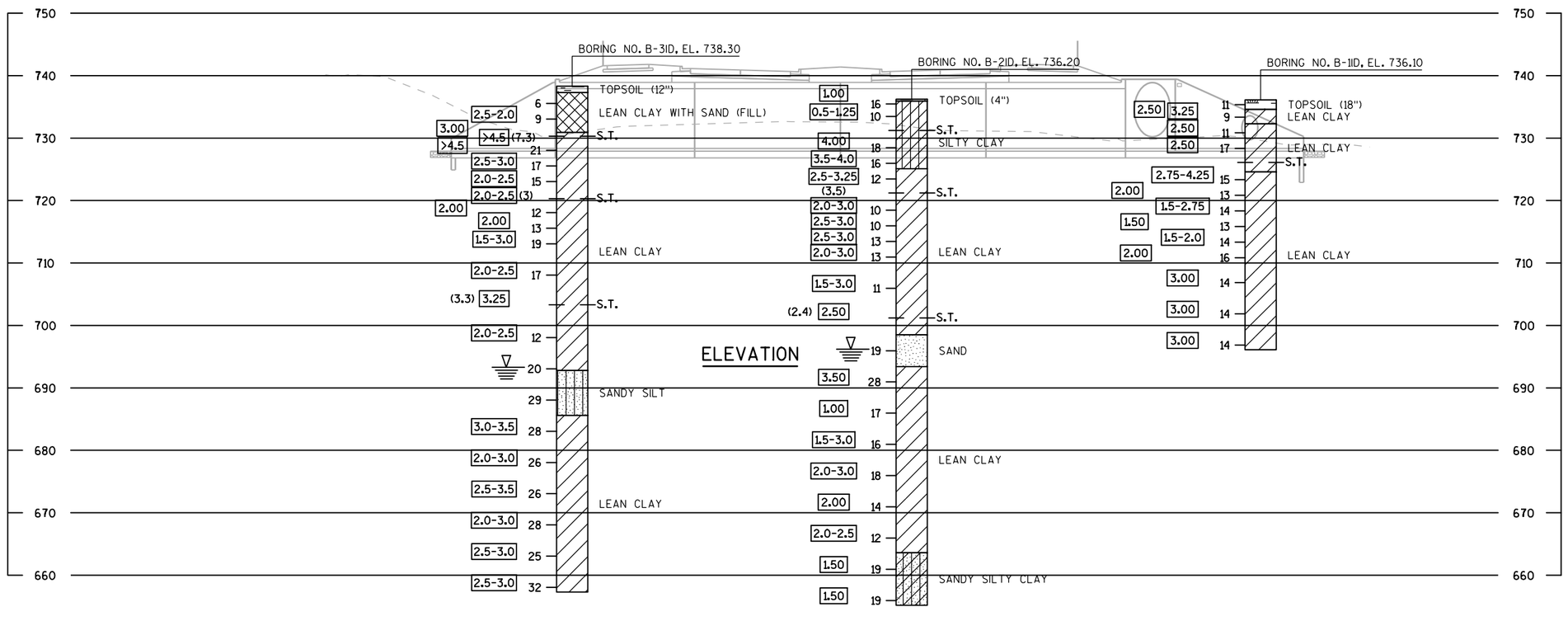
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
B-11D	3/12/18	180857	599410
B-21D	1/12/18	180968	599352
B-31D	1/12/18	180925	599302

BORINGS COMPLETED BY: GESTRA

REPORT COMPLETED BY: HNTB. CORP.

ALL COORDINATES REFERENCED TO WCCS NAD 83 RACINE COUNTY



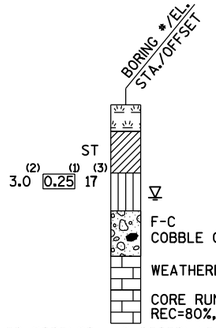


STATE PROJECT NUMBER
2704-00-75

MATERIAL SYMBOLS

ASPHALT/ BASECOURSE	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNCONFINED STRENGTH, AS DETERMINED BY UNCONFINED COMPRESSION TEST (TSF)

(3) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-51-84

DRAWN BY JJO | PLANS CK'D. JWC

SUBSURFACE EXPLORATION

SHEET 12 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International Falls\Cads\4.2_27040005-Boring Logs.dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 30:1

PROJECT ID 2704-00-75

DIVISION 1 - International Drive (Pond 1 and Box Culvert)

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	Topsoil Removal	Cut	Fill	Topsoil Removal	Cut	Fill	Topsoil Removal	
89+20 AH	8920.00	0.00	726.87	358.82	227.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89+50	8950.00	30.00	1048.65	302.49	222.47	986.40	367.40	249.86	986.40	367.40	249.86	619.00
90+00	9000.00	50.00	1149.07	187.64	217.30	2034.93	453.83	407.19	3021.32	821.22	657.05	2200.10
90+50	9050.00	50.00	963.91	93.04	215.33	1956.46	259.89	400.58	4977.79	1081.11	1057.63	3896.67
91+00	9100.00	50.00	865.96	113.76	204.26	1694.32	191.48	388.51	6672.11	1272.59	1446.14	5399.51
91+50	9150.00	50.00	772.02	228.23	195.51	1516.65	316.66	370.16	8188.76	1589.25	1816.30	6599.51
92+00	9200.00	50.00	705.78	427.48	193.83	1368.34	607.15	360.50	9557.10	2196.40	2176.80	7360.70
92+50	9250.00	50.00	637.22	624.23	194.75	1243.52	973.81	359.80	10800.62	3170.21	2536.60	7630.41
93+00	9300.00	50.00	485.64	712.29	192.08	1039.69	1237.52	358.18	11840.30	4407.72	2894.78	7432.58
93+50	9350.00	50.00	510.53	778.09	188.45	922.38	1379.98	352.34	12762.68	5787.71	3247.12	6974.98
94+00	9400.00	50.00	541.57	895.42	187.62	974.17	1549.55	348.21	13736.85	7337.25	3595.33	6399.60
94+50	9450.00	50.00	594.81	931.62	189.01	1052.20	1691.70	348.73	14789.05	9028.96	3944.06	5760.10
95+00	9500.00	50.00	698.41	830.27	186.55	1197.43	1631.38	347.74	15986.48	10660.34	4291.80	5326.14
95+50	9550.00	50.00	804.68	673.16	183.27	1391.75	1392.06	342.43	17378.23	12052.40	4634.23	5325.83
96+00	9600.00	50.00	955.69	506.13	176.50	1629.97	1091.93	333.12	19008.20	13144.33	4967.35	5863.87
96+50	9650.00	50.00	1036.26	393.53	177.03	1844.39	833.01	327.34	20852.59	13977.34	5294.69	6875.25
97+00	9700.00	50.00	1062.06	284.42	172.45	1942.89	627.73	323.59	22795.48	14605.08	5618.28	8190.40
97+50	9750.00	50.00	1006.17	218.98	170.78	1915.03	466.11	317.81	24710.51	15071.19	5936.09	9639.32
98+00	9800.00	50.00	963.57	286.43	172.48	1823.83	467.97	317.83	26534.34	15539.16	6253.92	10995.18
98+50	9850.00	50.00	895.11	375.90	175.43	1721.00	613.27	322.14	28255.34	16152.43	6576.06	12102.91
99+00	9900.00	50.00	851.99	499.69	178.53	1617.69	810.74	327.74	29873.03	16963.16	6903.80	12909.87
99+50	9950.00	50.00	580.57	639.53	182.09	1326.44	1054.83	333.91	31199.47	18018.00	7237.71	13181.48
100+00	10000.00	50.00	242.51	763.70	185.13	762.11	1299.29	340.02	31961.58	19317.28	7577.73	12644.30
100+50	10050.00	50.00	357.50	869.36	185.06	555.56	1512.09	342.77	32517.15	20829.37	7920.50	11687.77
101+00	10100.00	50.00	102.98	933.72	187.48	426.37	1669.52	344.94	32943.52	22498.89	8265.44	10444.63
101+50	10150.00	50.00	0.00	971.58	188.52	95.35	1764.17	348.15	33038.87	24263.06	8613.59	8775.81
102+00	10200.00	50.00	0.00	980.21	189.80	0.00	1807.21	350.30	33038.87	26070.27	8963.89	6968.60
102+50	10250.00	50.00	10.39	939.39	188.36	9.62	1777.41	350.15	33048.49	27847.68	9314.04	5200.81
103+00	10300.00	50.00	9.29	734.88	185.32	18.22	1550.25	346.00	33066.71	29397.93	9660.04	3668.78
103+50	10350.00	50.00	16.69	505.69	178.24	24.06	1148.68	336.63	33090.77	30546.61	9996.67	2544.16
104+00	10400.00	50.00	21.29	340.00	174.84	35.17	783.05	326.93	33125.94	31329.65	10323.60	1796.28
104+50	10450.00	50.00	19.01	340.70	174.98	37.32	630.28	323.91	33163.26	31959.94	10647.51	1203.32
105+00	10500.00	50.00	6.72	493.65	178.06	23.83	772.55	326.89	33187.08	32732.49	10974.40	454.60
105+50	10550.00	50.00	0.00	687.03	182.62	6.22	1093.22	333.96	33193.31	33825.71	11308.36	-632.40
106+00	10600.00	50.00	0.00	831.91	185.58	0.00	1406.43	340.93	33193.31	35232.13	11649.29	-2038.83
106+50	10650.00	50.00	342.50	710.44	182.67	317.13	1428.10	340.97	33510.44	36660.24	11990.26	-3149.80
107+15	10700.00	50.00	348.52	677.66	180.29	639.83	1285.28	336.07	34150.27	37945.51	12326.33	-3795.24
107+50	10750.00	50.00	0.00	514.31	181.36	322.70	1103.67	334.86	34472.97	39049.19	12661.19	-4576.22
108+00 BK	10800.00	50.00	0.00	423.29	176.97	0.00	868.15	331.79	34472.97	39917.34	12992.98	-5444.37
						34,472.97	39,917.34	12,992.97				

PROJECT ID 2704-00-75

DIVISION 2 - International Drive

STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
			Cut	Fill	Topsoil Removal	Cut	Fill	Topsoil Removal	Cut	Fill	Topsoil Removal	
50+62 AH	5062.00	0.00	1.30	742.11	261.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51+00	5100.00	38.00	4.17	530.12	242.89	3.85	895.27	354.91	3.85	895.27	354.91	-891.42
51+50	5150.00	50.00	0.00	615.30	235.14	3.86	1060.57	442.62	7.71	1955.85	797.53	-1948.14
52+00	5200.00	50.00	3.55	622.19	227.77	3.29	1145.82	428.62	11.00	3101.67	1226.15	-3090.67
52+50	5250.00	50.00	0.00	506.83	223.63	3.29	1045.39	417.96	14.28	4147.06	1644.11	-4132.78
53+00	5300.00	50.00	0.29	462.76	220.61	0.27	897.77	411.33	14.55	5044.83	2055.44	-5030.28
53+50	5350.00	50.00	6.93	621.52	216.68	6.69	1003.96	404.90	21.24	6048.79	2460.34	-6027.55
54+00	5400.00	50.00	17.34	629.70	208.97	22.47	1158.54	394.12	43.71	7207.33	2854.46	-7163.62
54+50	5450.00	50.00	20.73	559.17	202.65	35.25	1100.81	381.13	78.96	8308.14	3235.59	-8229.17
55+00	5500.00	50.00	28.37	459.38	200.52	45.46	943.10	373.31	124.43	9251.24	3608.90	-9126.81
55+50	5550.00	50.00	29.79	404.19	196.44	53.85	799.60	367.56	178.28	10050.84	3976.46	-9872.56
56+00	5600.00	50.00	27.36	422.22	193.20	52.92	765.20	360.78	231.19	10816.03	4337.24	-10584.84
56+50	5650.00	50.00	16.63	514.63	191.22	40.74	867.46	355.94	271.93	11683.49	4693.18	-11411.56
57+00	5700.00	50.00	4.36	630.17	189.84	19.44	1060.00	352.83	291.37	12743.49	5046.01	-12452.13
57+50	5750.00	50.00	1.41	718.61	189.37	5.34	1248.87	351.12	296.71	13992.36	5397.13	-13695.66
58+00	5800.00	50.00	11.86	674.11	184.82	12.29	1289.56	346.47	308.99	15281.92	5743.60	-14972.92
58+50	5850.00	50.00	44.86	581.47	180.30	52.52	1162.57	338.07	361.51	16444.49	6081.67	-16082.98
59+00	5900.00	50.00	62.76	557.51	179.72	99.65	1054.61	333.35	461.16	17499.10	6415.02	-17037.94
59+50	5950.00	50.00	51.13	618.23	181.73	105.45	1088.65	334.68	566.62	18587.75	6749.70	-18021.14
60+00	6000.00	50.00	53.89	676.04	183.53	97.24	1198.40	338.20	663.86	19786.15	7087.90	-19122.29
60+50	6050.00	50.00	98.01	773.35	185.61	140.65	1342.03	341.80	804.50	21128.18	7429.70	-20323.67
61+00	6100.00	50.00	158.34	852.92	187.06	237.36	1505.81	345.06	1041.87	22633.98	7774.76	-21592.12
61+50	6150.00	50.00	115.35	761.82	185.43	253.42	1495.13	344.90	1295.28	24129.11	8119.66	-22833.83
62+00	6200.00	50.00	9.11	536.81	179.43	115.24	1202.44	337.83	1410.52	25331.55	8457.49	-23921.03
62+50	6250.00	50.00	10.77	340.47	174.14	18.41	812.30	327.38	1428.93	26143.85	8784.87	-24714.91
63+00	6300.00	50.00	0.00	274.87	172.15	9.97	569.76	320.64	1438.91	26713.61	9105.51	-25274.70
63+50	6350.00	50.00	0.00	219.11	170.58	0.00	457.38	317.34	1438.90	27170.99	9422.85	-25732.09
64+00	6400.00	50.00	4.45	122.46	167.79	4.12	316.27	313.31	1443.02	27487.26	9736.16	-26044.24
64+50	6450.00	50.00	35.35	79.51	166.18	36.86	187.01	309.23	1479.88	27674.27	10045.39	-26194.40
65+00	6500.00	50.00	32.98	110.79	167.00	63.27	176.20	308.50	1543.15	27850.48	10353.89	-26307.33
65+50	6550.00	50.00	6.22	151.61	168.77	36.29	242.96	310.90	1579.44	28093.44	10664.79	-26514.00
66+00	6600.00	50.00	1.91	221.02	170.84	7.52	345.02	314.45	1586.96	28438.46	10979.24	-26851.50
66+50	6650.00	50.00	9.82	255.71	172.25	10.86	441.42	317.68	1597.82	28879.87	11296.92	-27282.05
67+00	6700.00	50.00	14.15	246.47	171.01	22.20	464.98	317.83	1620.02	29344.86	11614.75	-27724.84
67+50	6750.00	50.00	24.58	238.09	171.10	35.87	448.67	316.77	1655.88	29793.53	11931.52	-28137.65
68+00	6800.00	50.00	15.26	242.38	171.60	36.89	444.89	317.31	1692.78	30238.41	12248.83	-28545.64
68+50	6850.00	50.00	12.20	287.30	173.22	25.43	490.45	319.28	1718.21	30728.86	12568.11	-29010.66
69+00	6900.00	50.00	5.44	359.14	175.22	16.34	598.56	322.63	1734.54	31327.42	12890.74	-29592.88
69+50	6950.00	50.00	3.45	445.09	177.05	8.23	744.66	326.18	1742.78	32072.08	13216.92	-30329.30
70+00	7000.00	50.00	1.70	531.62	179.55	4.77	904.36	330.19	1747.54	32976.44	13547.11	-31228.90
70+50	7050.00	50.00	0.84	615.98	181.53	2.35	1062.59	334.33	1749.89	34039.03	13881.44	-32289.14
71+00	7100.00	50.00	3.87	673.36	182.86	4.36	1193.83	337.40	1754.25	35232.86	14218.84	-33478.61
71+50	7150.00	50.00	4.25	708.86	183.43	7.52	1279.83	339.16	1761.77	36512.70	14558.00	-34750.92
72+00	7200.00	50.00	4.69	723.72	184.08	8.28	1326.46	340.29	1770.05	37839.16	14898.29	-36069.11
72+50	7250.00	50.00	6.47	776.72	185.65	10.33	1389.30	342.34	1780.38	39228.46	15240.63	-37448.07

PROJECT ID 2704-00-75

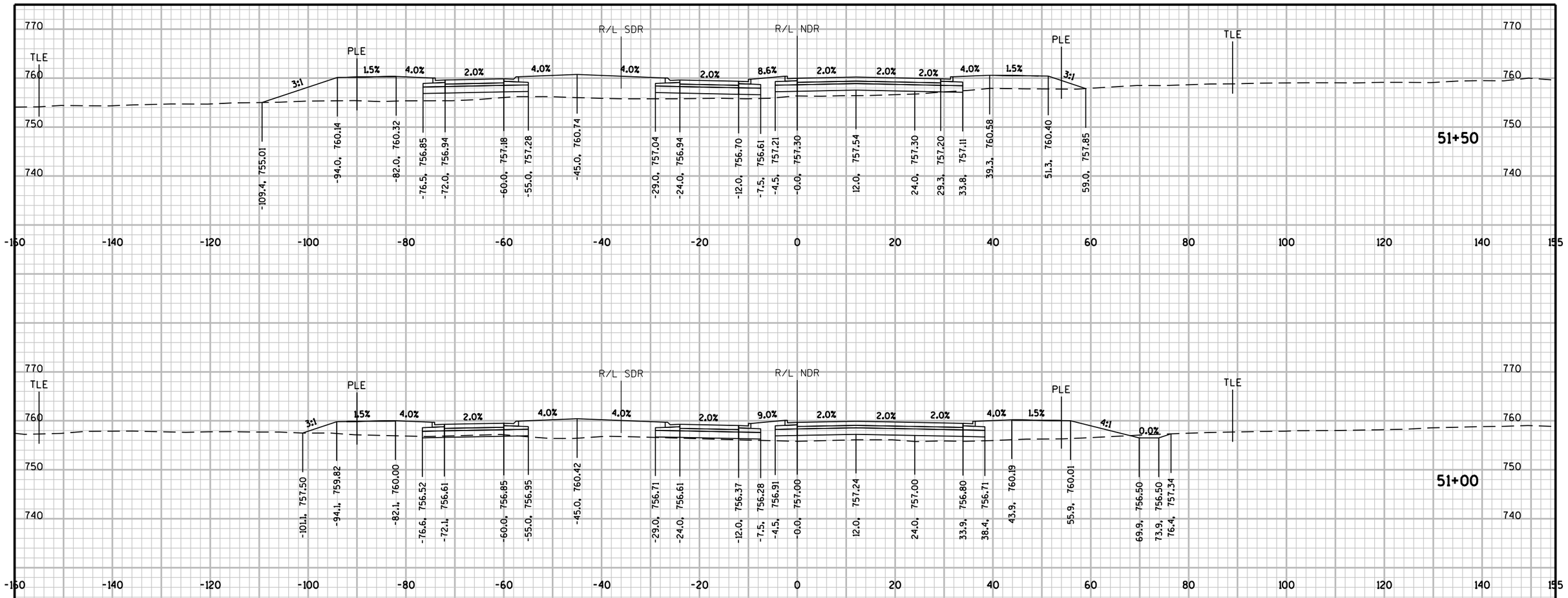
DIVISION 2 - International Drive

STATION		Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)			Mass Ordinate
				Cut	Fill	Topsoil Removal	Cut	Fill	Topsoil Removal	Cut	Fill	Topsoil Removal	
73+00		7300.00	50.00	7.68	776.80	185.37	13.10	1438.44	343.54	1793.49	40666.90	15584.17	-38873.41
73+50		7350.00	50.00	13.12	742.43	184.41	19.26	1406.69	342.39	1812.75	42073.60	15926.56	-40260.85
74+00		7400.00	50.00	22.26	667.12	182.03	32.76	1305.14	339.30	1845.50	43378.73	16265.86	-41533.23
74+50		7450.00	50.00	24.41	628.55	181.76	43.21	1199.69	336.84	1888.72	44578.43	16602.70	-42689.71
74+81		7481.00	31.00	30.07	584.56	180.33	31.28	696.42	207.87	1919.99	45274.84	16810.57	-43354.85
75+62		7562.00	81.00	34.76	586.97	179.86	97.25	1757.30	540.29	2017.24	47032.14	17350.86	-45014.90
76+00		7600.00	38.00	35.98	724.38	183.86	49.78	922.80	255.95	2067.02	47954.94	17606.81	-45887.92
76+50		7650.00	50.00	27.82	882.63	184.41	59.07	1487.97	340.99	2126.09	49442.91	17947.80	-47316.82
77+00		7700.00	50.00	30.53	876.08	184.36	54.03	1628.44	341.45	2180.12	51071.35	18289.25	-48891.23
77+50		7750.00	50.00	29.41	847.27	167.10	55.50	1595.69	325.43	2235.62	52667.04	18614.68	-50431.42
78+00		7800.00	50.00	41.95	861.52	189.74	66.07	1582.21	330.41	2301.69	54249.26	18945.09	-51947.56
78+50		7850.00	50.00	76.37	819.43	187.49	109.56	1556.44	349.29	2411.25	55805.69	19294.38	-53394.44
79+00		7900.00	50.00	77.41	875.95	188.47	142.39	1569.80	348.11	2553.64	57375.49	19642.49	-54821.85
79+50		7950.00	50.00	0.64	912.58	187.33	72.27	1656.05	347.96	2625.91	59031.53	19990.45	-56405.63
80+00		8000.00	50.00	14.05	848.20	186.63	13.60	1630.35	346.26	2639.51	60661.88	20336.71	-58022.38
80+50		8050.00	50.00	30.30	754.04	184.85	41.06	1483.56	343.96	2680.57	62145.44	20680.67	-59464.87
81+00		8100.00	50.00	33.88	732.20	188.77	59.43	1376.15	345.94	2740.00	63521.59	21026.61	-60781.59
81+50		8150.00	50.00	67.77	726.94	184.20	94.12	1351.06	345.34	2834.12	64872.64	21371.95	-62038.52
82+00		8200.00	50.00	122.17	772.74	195.51	175.87	1388.59	351.58	3009.99	66261.24	21723.53	-63251.25
82+50		8250.00	50.00	151.36	671.83	193.48	253.27	1337.56	360.18	3263.26	67598.80	22083.71	-64335.54
83+00		8300.00	50.00	14.37	530.68	185.55	153.45	1113.44	350.95	3416.71	68712.24	22434.66	-65295.52
83+50		8350.00	50.00	0.00	377.48	183.05	13.30	840.88	341.30	3430.01	69553.12	22775.96	-66123.11
84+00		8400.00	50.00	0.00	298.27	183.62	0.00	625.69	339.51	3430.01	70178.81	23115.47	-66748.80
84+50		8450.00	50.00	0.00	238.43	184.43	0.00	496.94	340.79	3430.01	70675.76	23456.26	-67245.75
85+00		8500.00	50.00	0.00	199.41	184.93	0.00	405.41	342.00	3430.01	71081.16	23798.26	-67651.15
85+50		8550.00	50.00	0.00	198.38	197.70	0.00	368.32	354.29	3430.01	71449.49	24152.55	-68019.48
86+00		8600.00	50.00	0.00	228.45	206.25	0.00	395.21	374.03	3430.01	71844.70	24526.58	-68414.69
86+50		8650.00	50.00	0.00	292.46	220.29	0.00	482.32	394.94	3430.01	72327.02	24921.52	-68897.01
87+00		8700.00	50.00	3.64	379.82	228.25	3.37	622.48	415.31	3433.38	72949.51	25336.83	-69516.13
87+50		8750.00	50.00	27.97	414.24	224.88	29.27	735.24	419.56	3462.65	73684.75	25756.39	-70222.10
88+00		8800.00	50.00	97.91	411.39	231.70	116.55	764.47	422.76	3579.21	74449.22	26179.15	-70870.01
88+20	BK	8820.00	20.00	726.87	358.82	227.27	305.47	285.26	169.99	3884.68	74734.48	26349.14	-70849.81
108+00	AH	10800.00	0.00	0.00	423.29	176.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108+50		10850.00	50.00	0.00	410.21	176.65	0.00	771.76	327.43	0.00	771.76	327.43	-771.76
109+00		10900.00	50.00	0.00	413.16	175.22	0.00	762.38	325.81	0.00	1534.14	653.24	-1534.14
109+50		10950.00	50.00	0.00	320.34	174.44	0.00	679.17	323.76	0.00	2213.31	977.00	-2213.31
110+00		11000.00	50.00	26.13	54.72	168.80	24.20	347.28	317.81	24.20	2560.59	1294.81	-2536.39
110+50		11050.00	50.00	163.18	4.21	164.53	175.29	54.56	308.64	199.49	2615.15	1603.45	-2415.67
111+00		11100.00	50.00	251.95	2.50	165.78	384.37	6.21	305.84	583.86	2621.36	1909.29	-2037.50
111+50	BK	11150.00	50.00	115.88	49.09	170.74	340.58	47.77	311.59	924.44	2669.13	2220.88	-1744.69

PROJECT ID 2704-00-75

DIVISION 2 - Louis Sorenson Drive

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) Topsoil Removal	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Topsoil Removal	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Topsoil Removal	Mass Ordinate
25+55	AH	2555.00	0.00	30.58	2.57	66.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26+00		2600.00	45.00	58.50	7.13	85.56	74.23	8.08	126.50	74.23	8.08	126.50	66.15
26+50		2650.00	50.00	203.70	8.04	89.34	242.78	14.05	161.94	317.01	22.13	288.44	294.88
27+00		2700.00	50.00	93.26	12.74	92.80	274.96	19.24	168.65	591.98	41.38	457.09	550.60
27+50		2750.00	50.00	90.52	12.26	92.48	170.16	23.15	171.56	762.14	64.53	628.65	697.61
27+84		2784.00	34.00	24.40	12.07	87.85	72.35	15.32	113.54	834.49	79.85	742.19	754.64
29+65		2965.00	181.00	20.82	23.98	93.99	151.56	120.83	609.51	986.05	200.68	1351.70	785.37
30+00		3000.00	35.00	61.36	12.29	91.78	53.27	23.51	120.41	1039.32	224.19	1472.11	815.13
30+50		3050.00	50.00	56.00	8.32	88.72	108.67	19.08	167.13	1147.98	243.27	1639.24	904.71
31+00		3100.00	50.00	39.00	13.79	90.48	87.97	20.48	165.93	1235.95	263.75	1805.17	972.20
31+50		3150.00	50.00	27.94	23.06	91.45	61.98	34.12	168.45	1297.93	297.87	1973.62	1000.06
31+85	BK	3185.00	35.00	10.49	2.96	66.01	24.91	16.86	102.06	1322.84	314.74	2075.68	1008.10
							1,322.84	314.74	2,075.67				



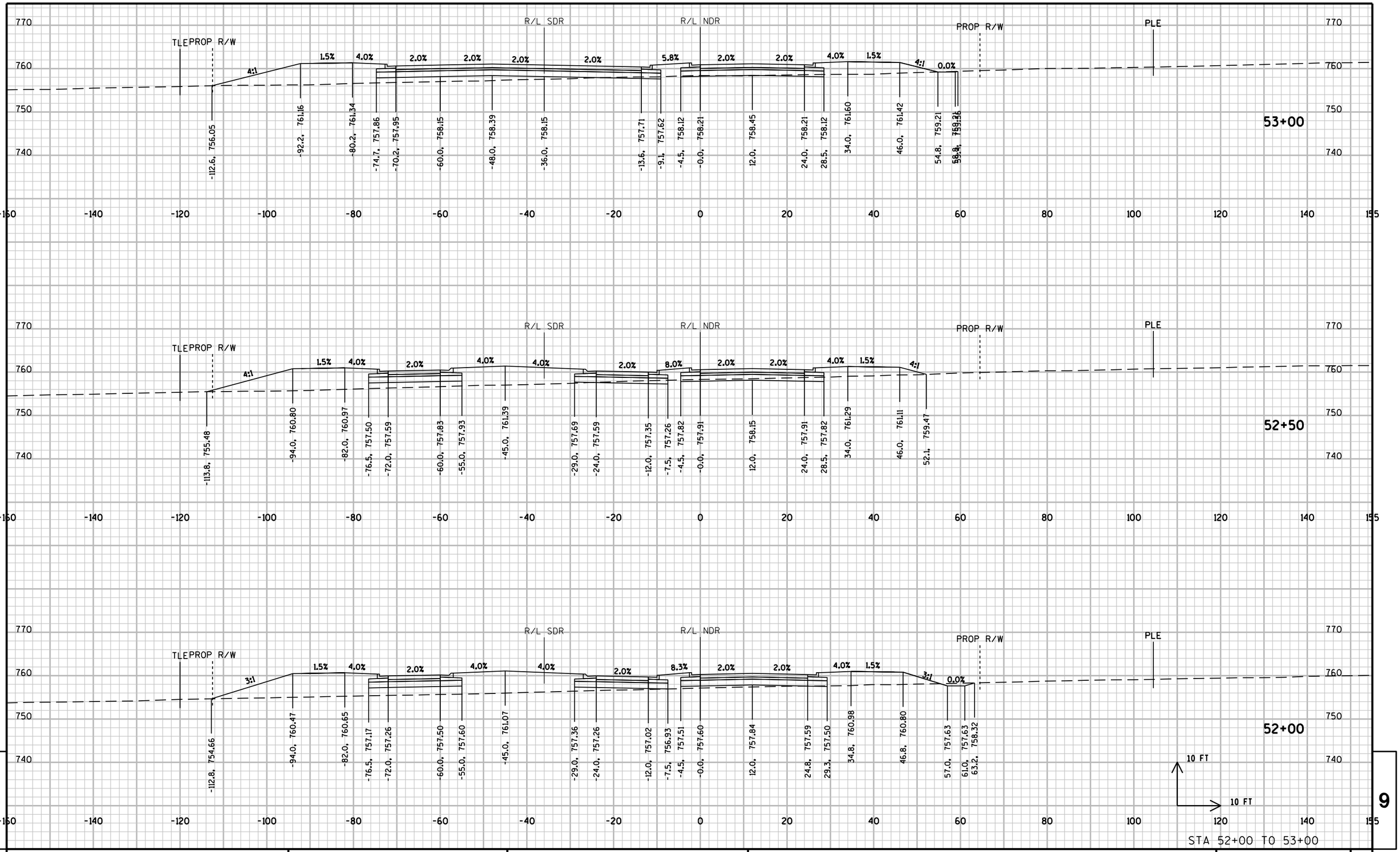
9

9

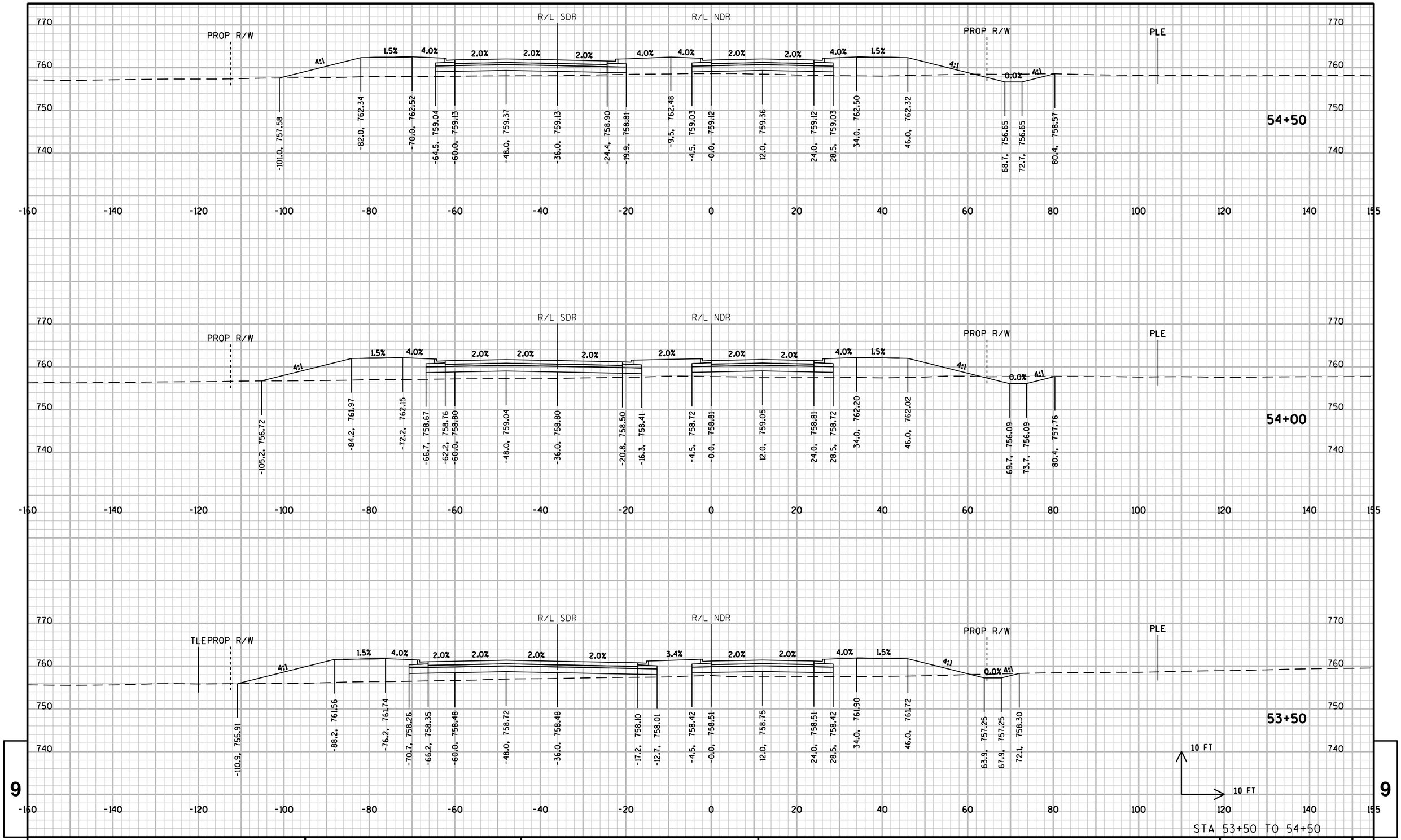
STA 50+62 TO 51+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn
PLOT DATE : 5/1/2018
PLOT BY : ctomsak
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 288 E



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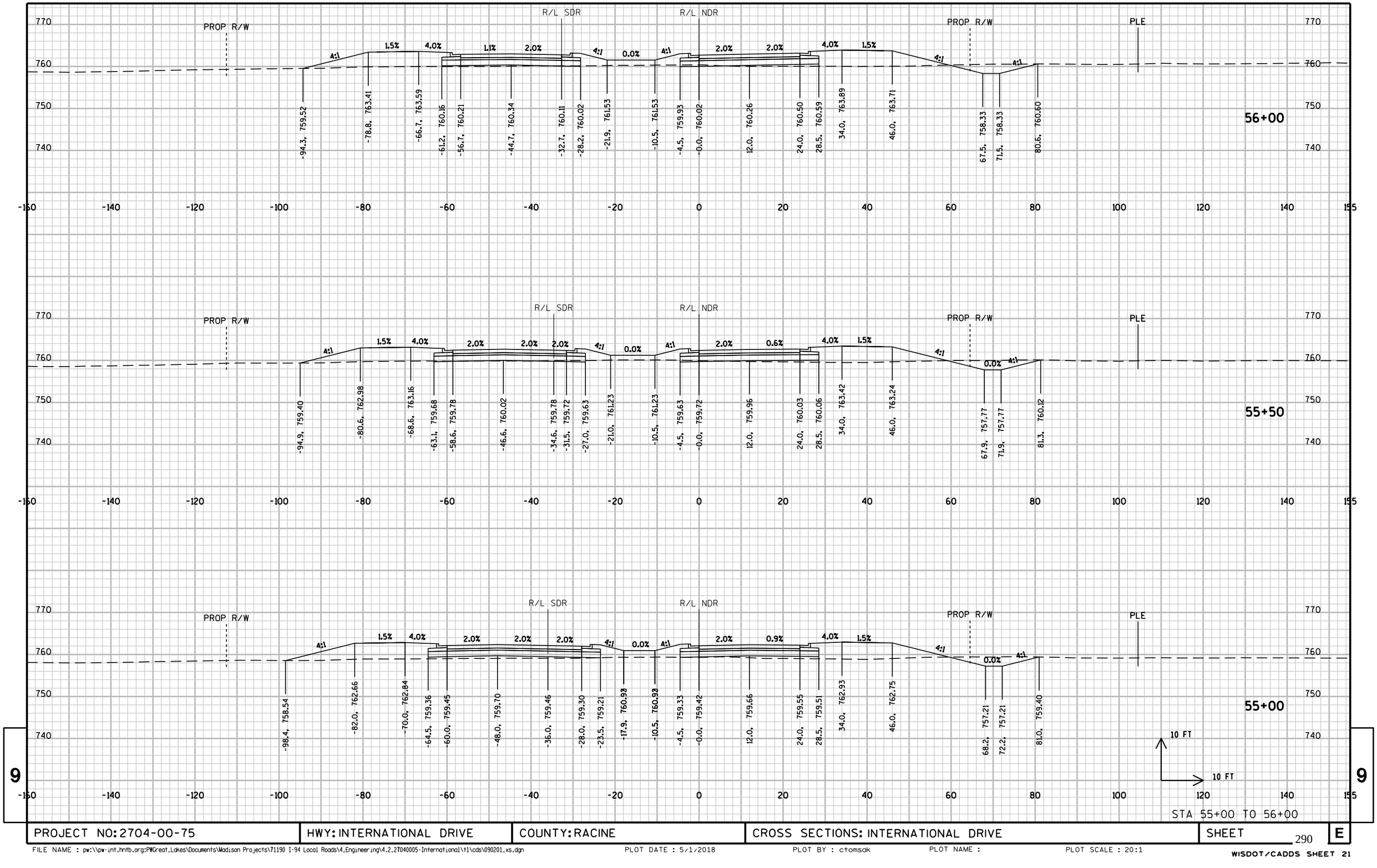
9

STA 53+50 TO 54+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

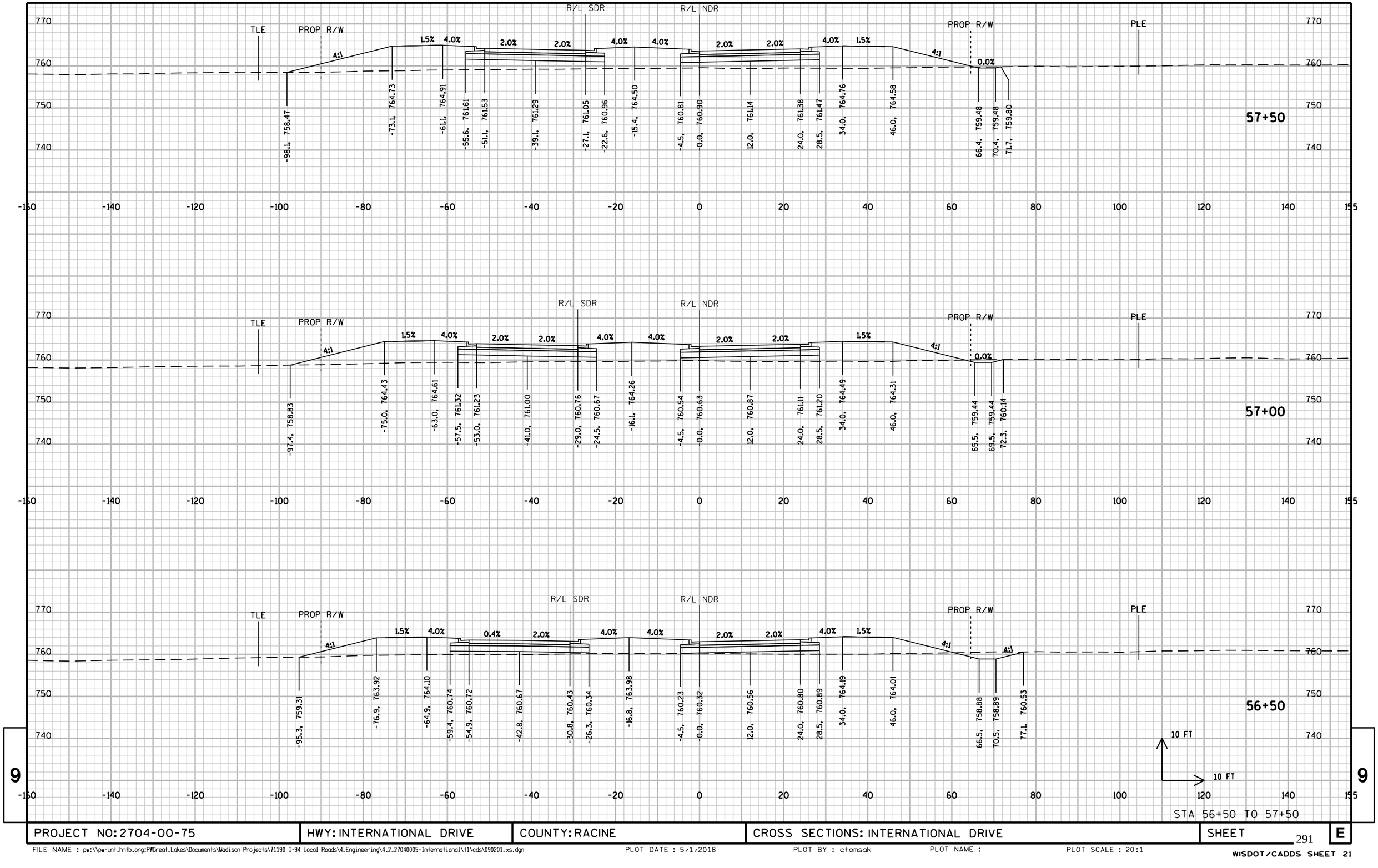
9

STA 55+00 TO 56+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 290	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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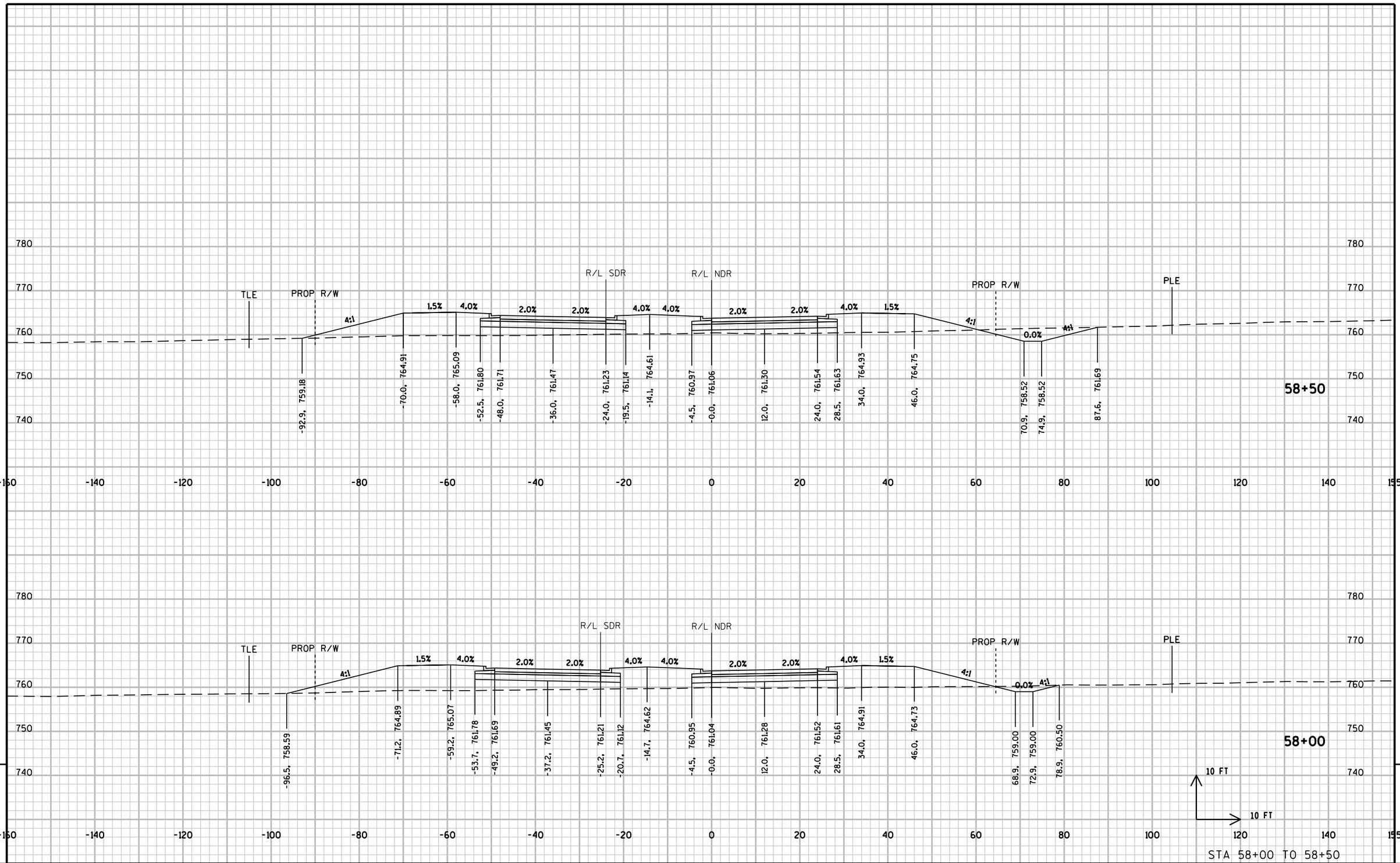
STA 56+50 TO 57+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

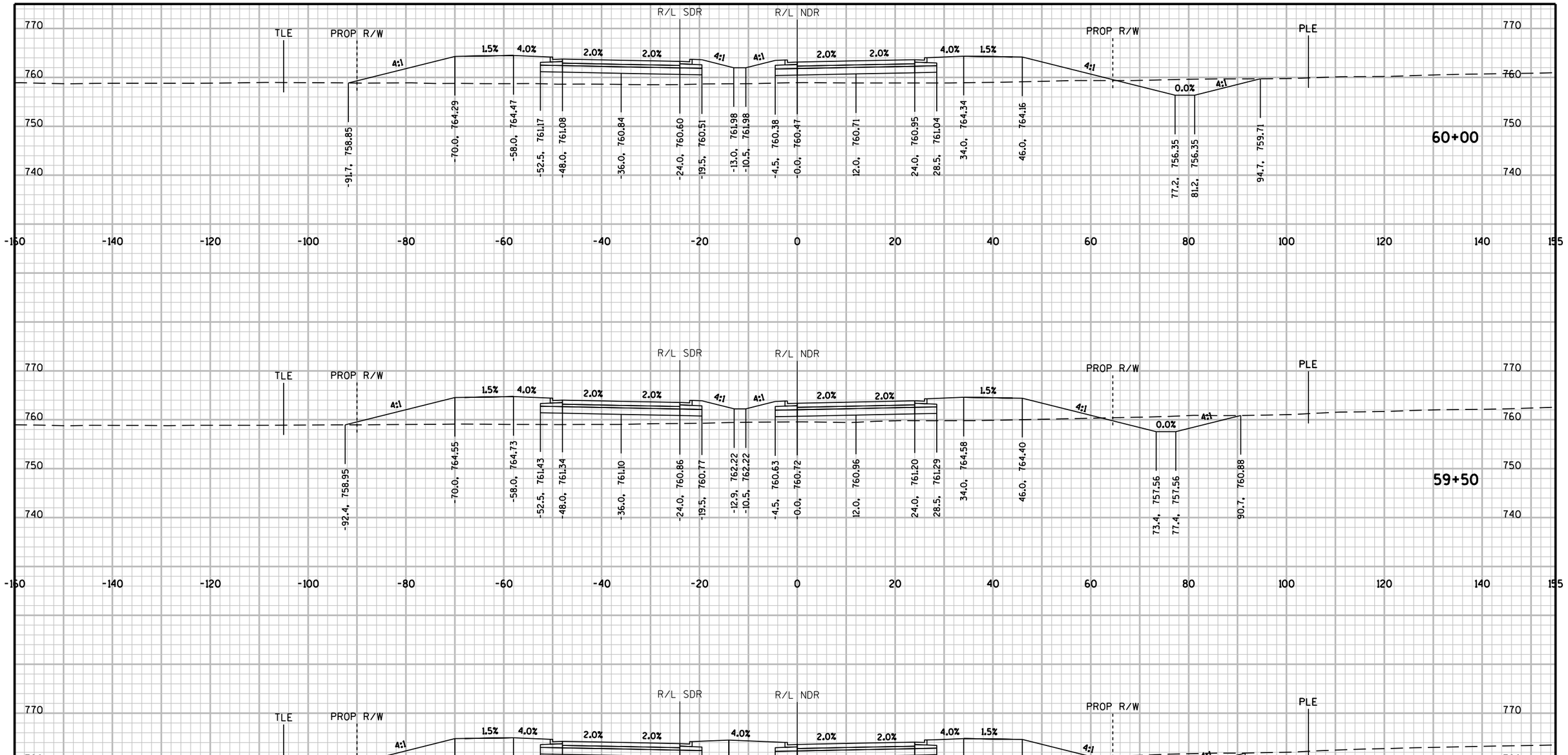
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\tl\cds\090201_xs.dgn
PLOT DATE : 5/1/2018
PLOT BY : ctomsak
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 59+00 TO 60+00

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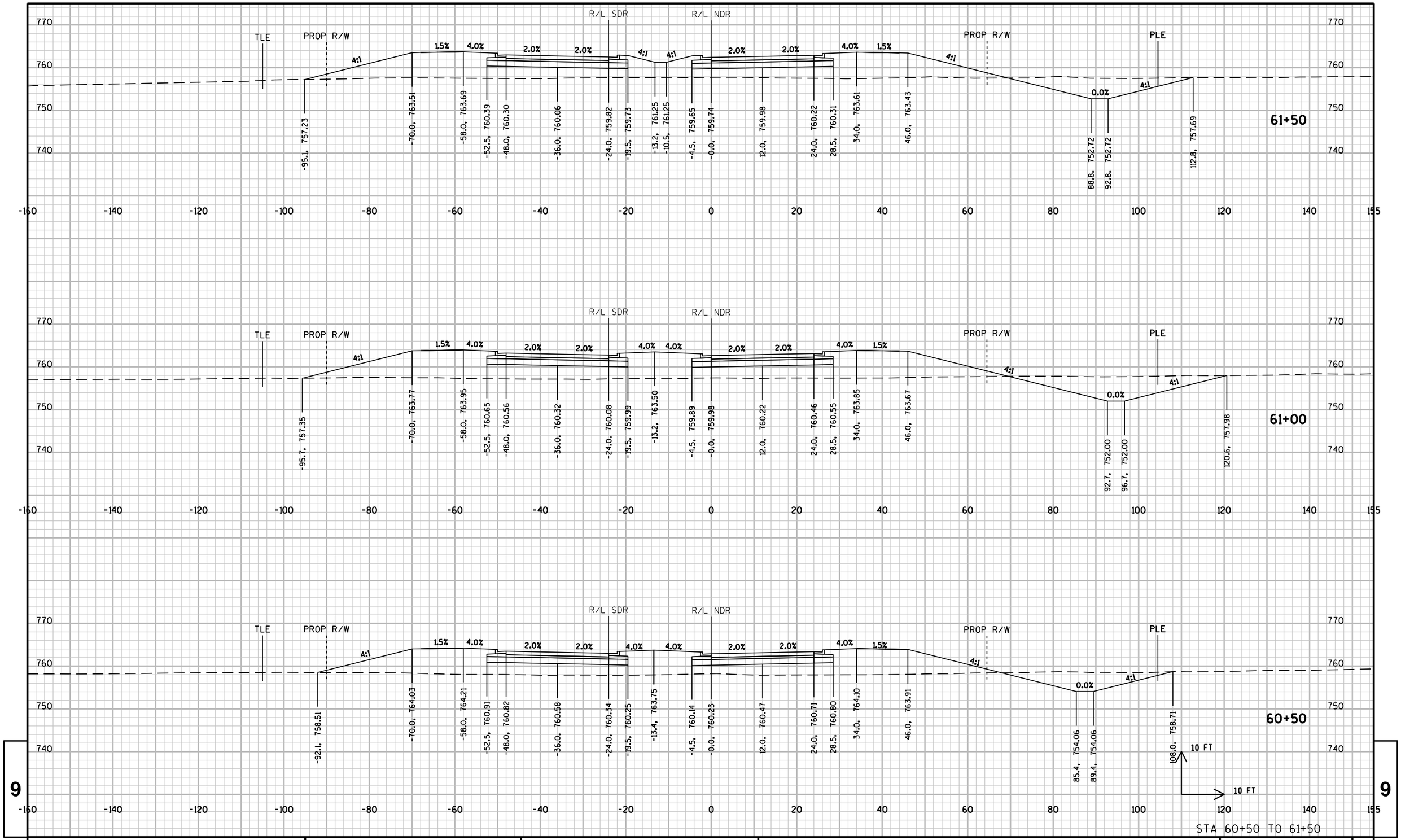
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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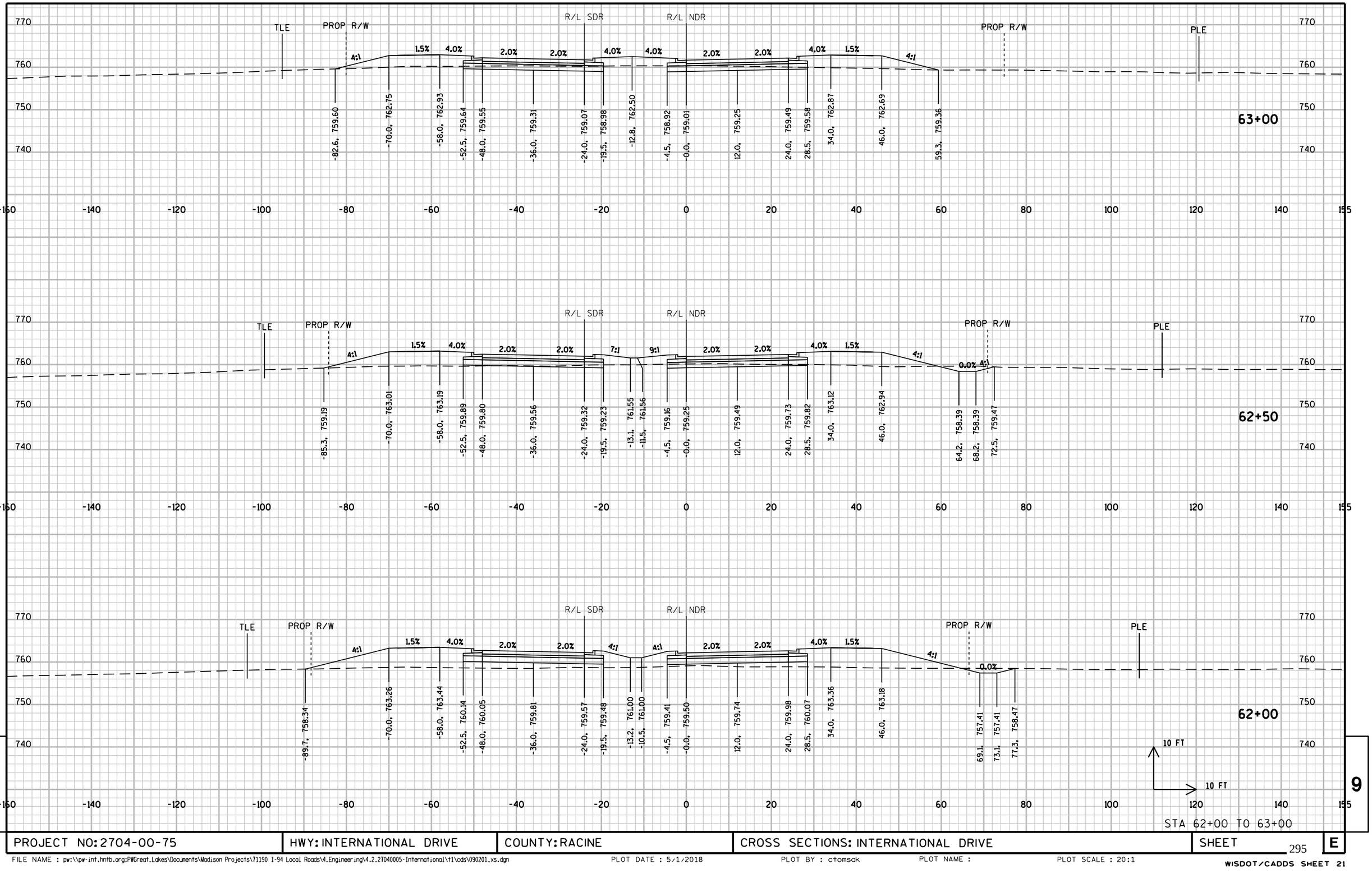
STA 60+50 TO 61+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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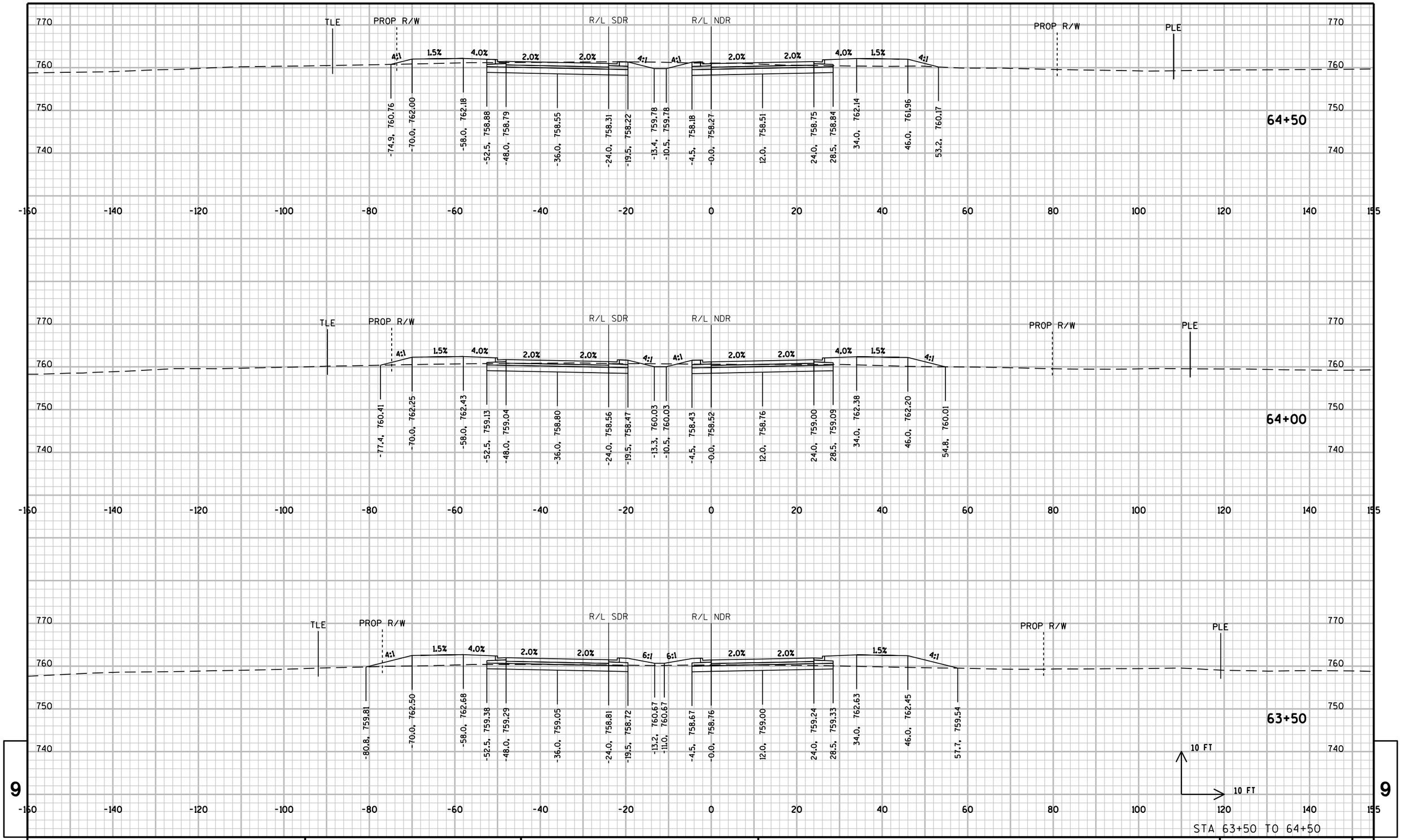
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

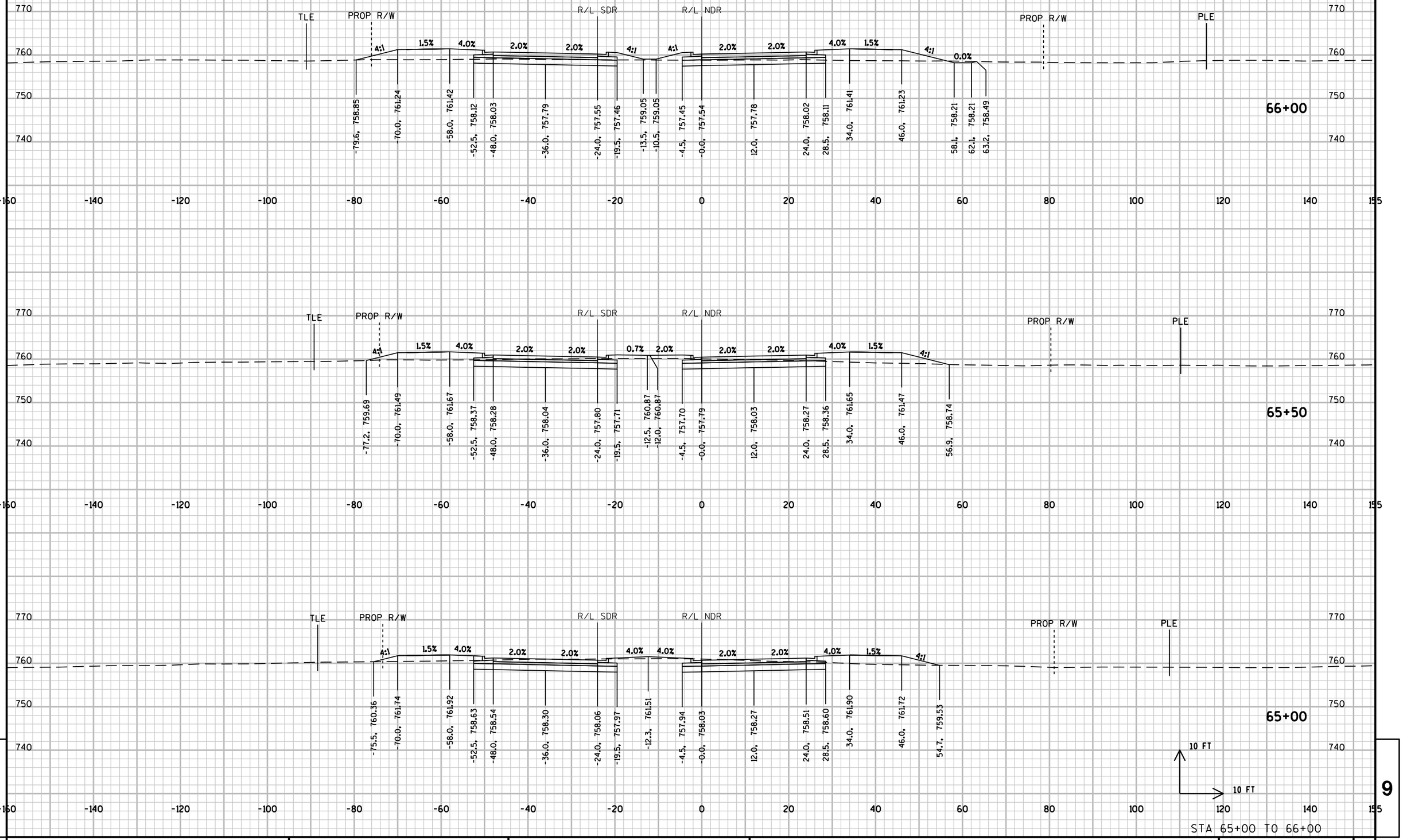


STA 63+50 TO 64+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

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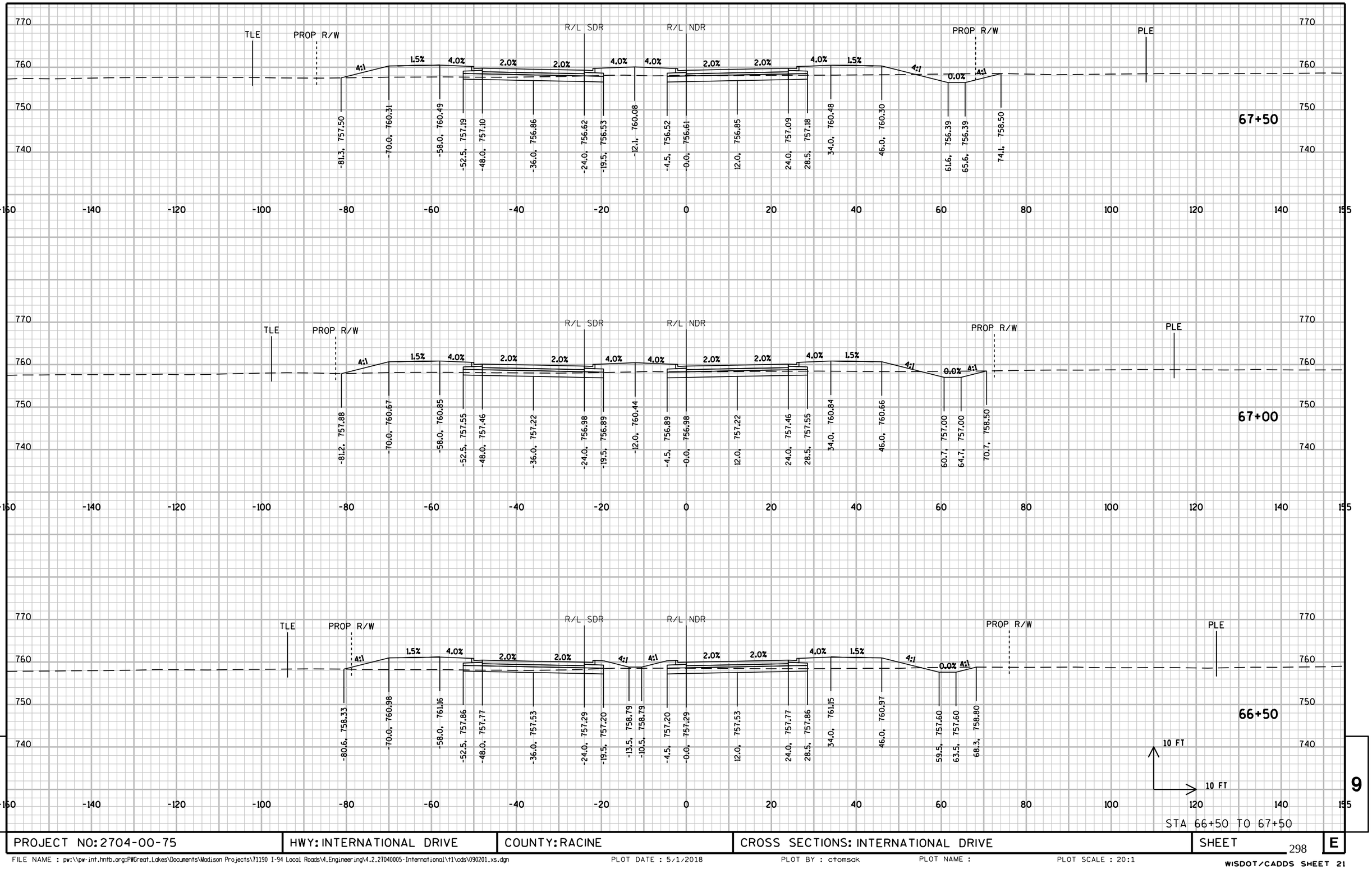
STA 65+00 TO 66+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

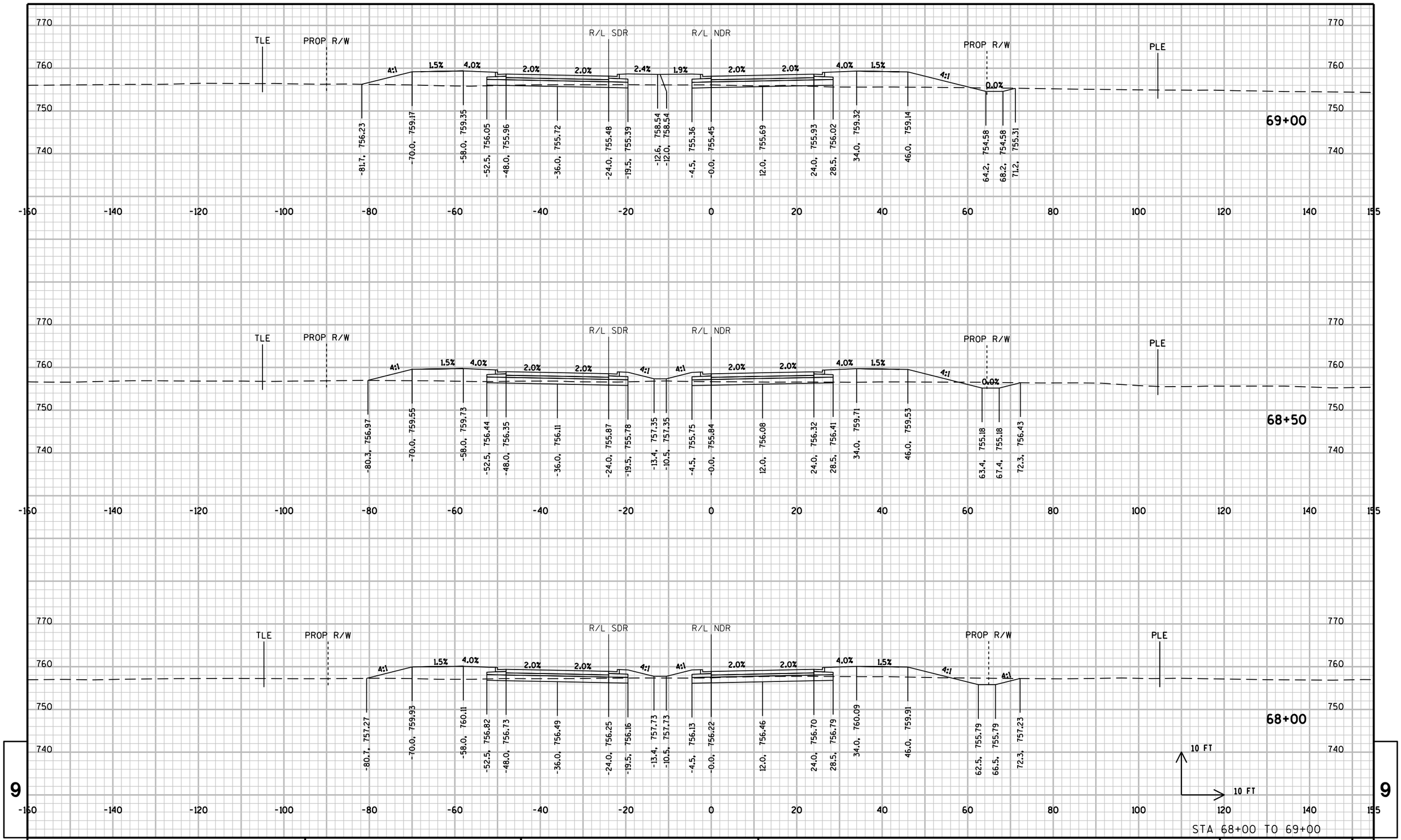
WISDOT/CADDS SHEET 21



STA 66+50 TO 67+50

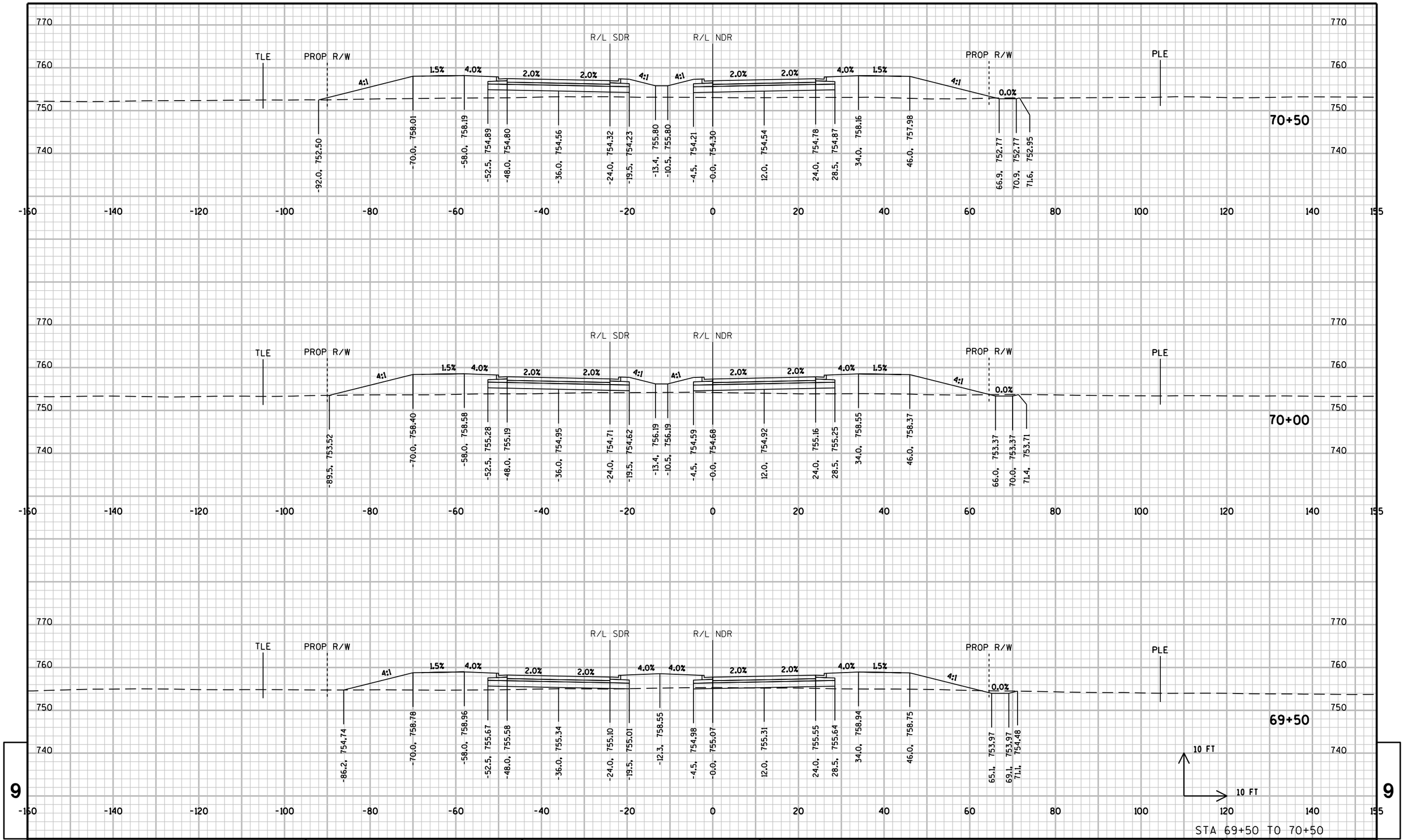
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 298	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1



STA 68+00 TO 69+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 299	E

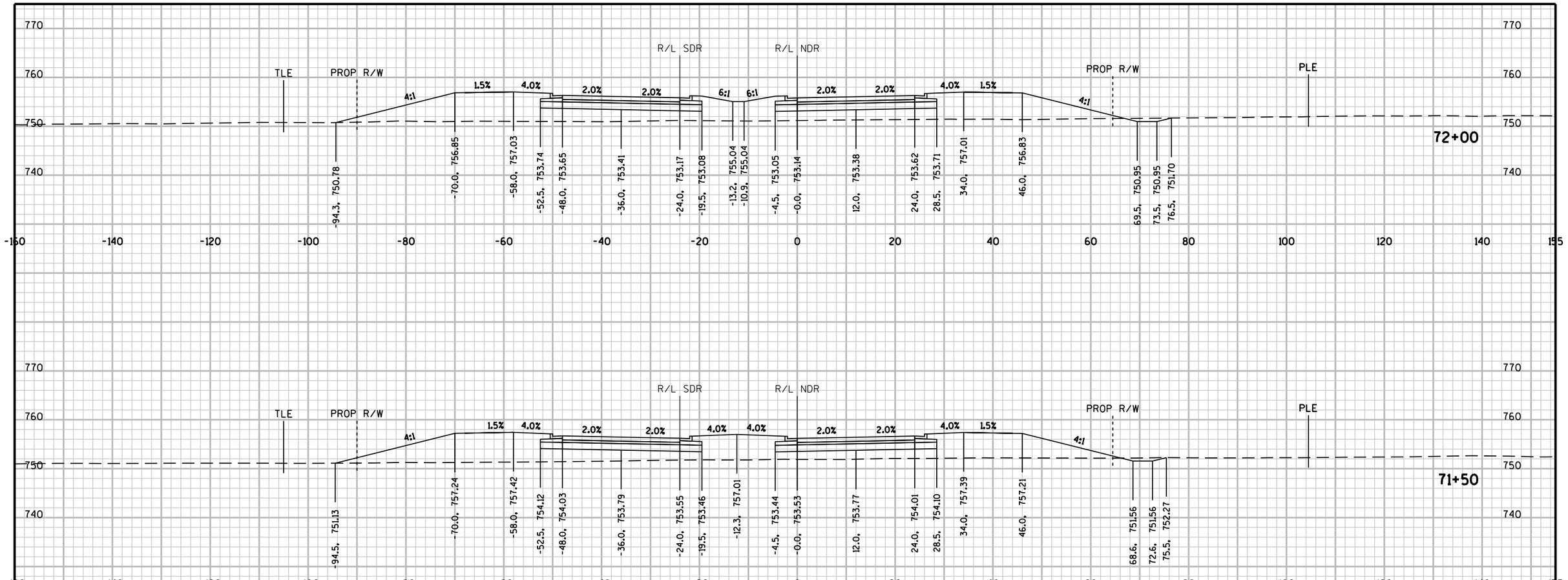


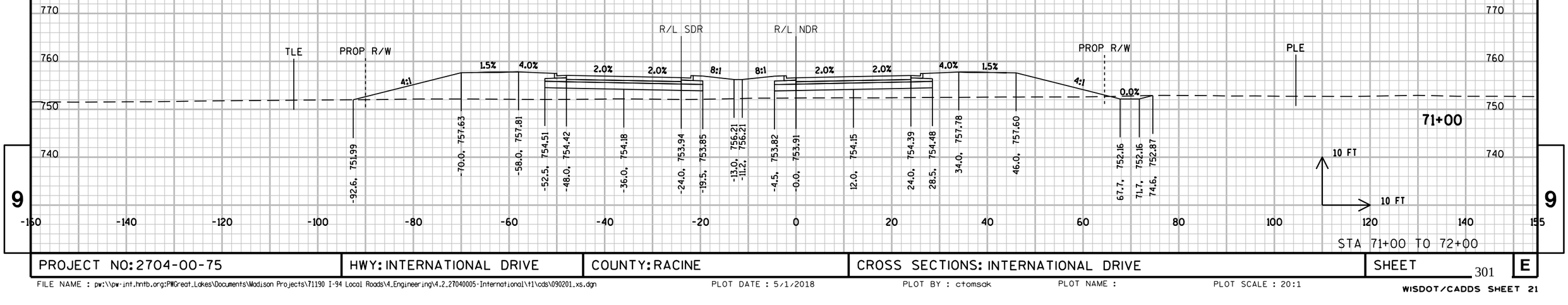
STA 69+50 TO 70+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 300	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21





9

9

STA 71+00 TO 72+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 301	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn

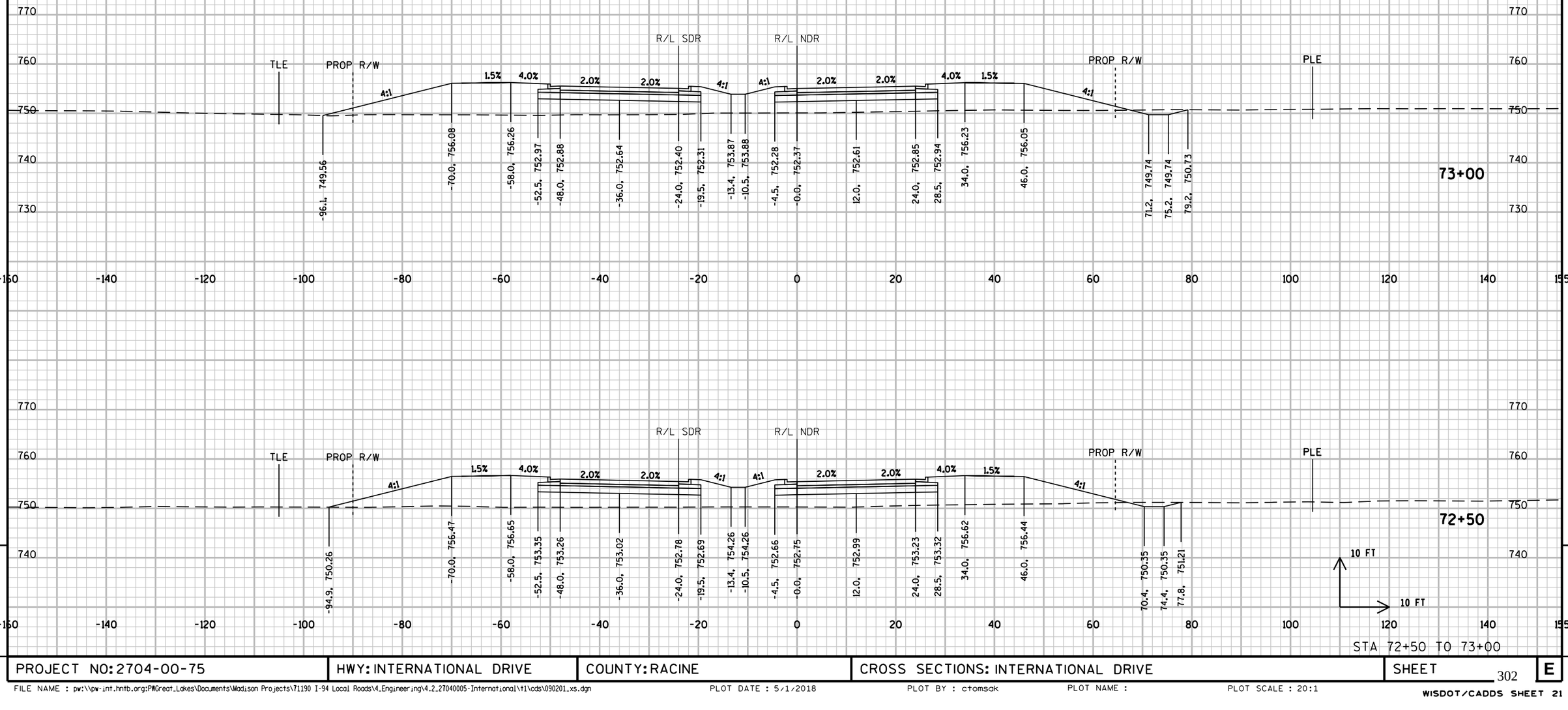
PLOT DATE : 5/1/2018

PLOT BY : ctomsak

PLOT NAME :

PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

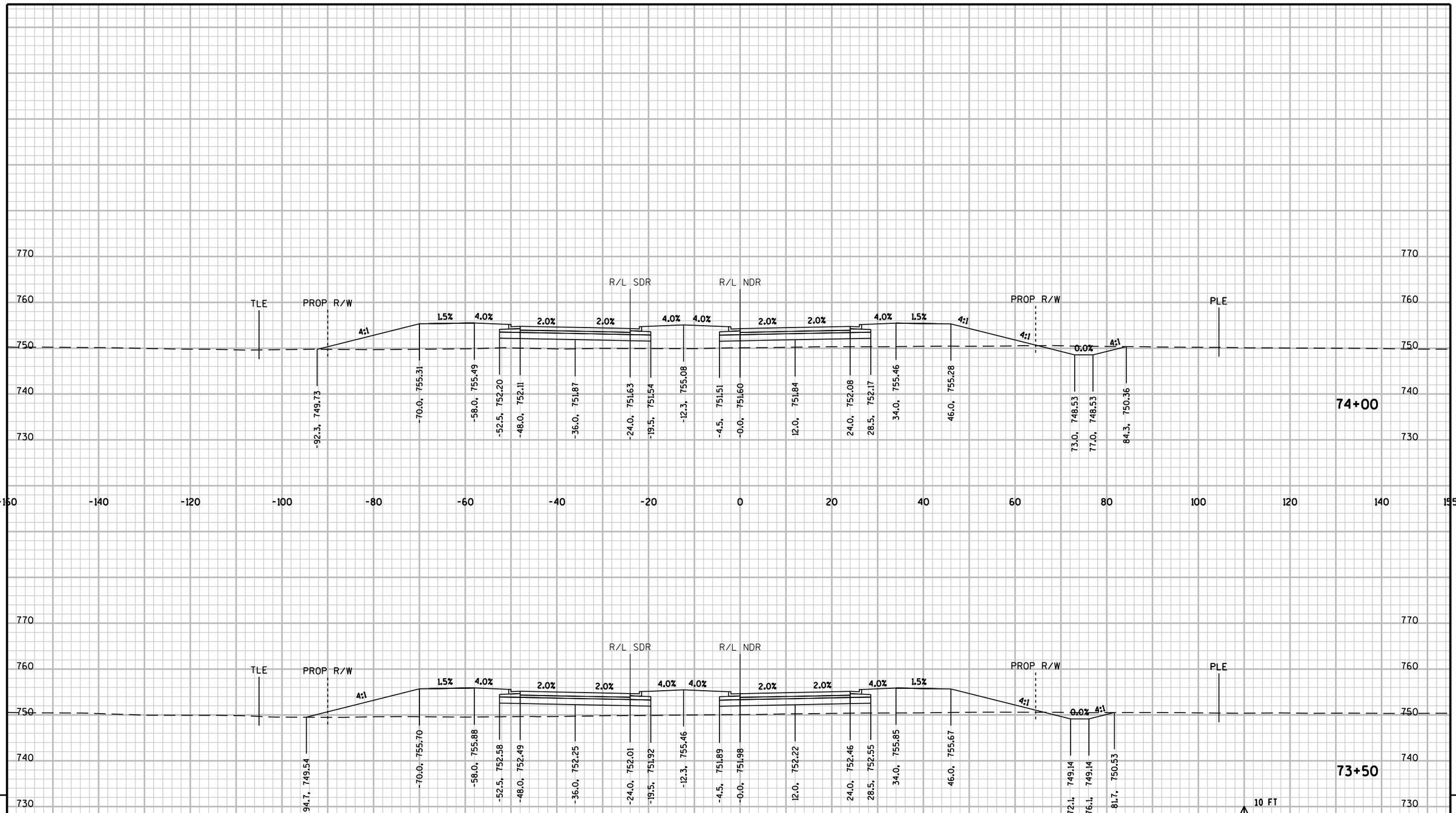
9

STA 72+50 TO 73+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 302	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\tl\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

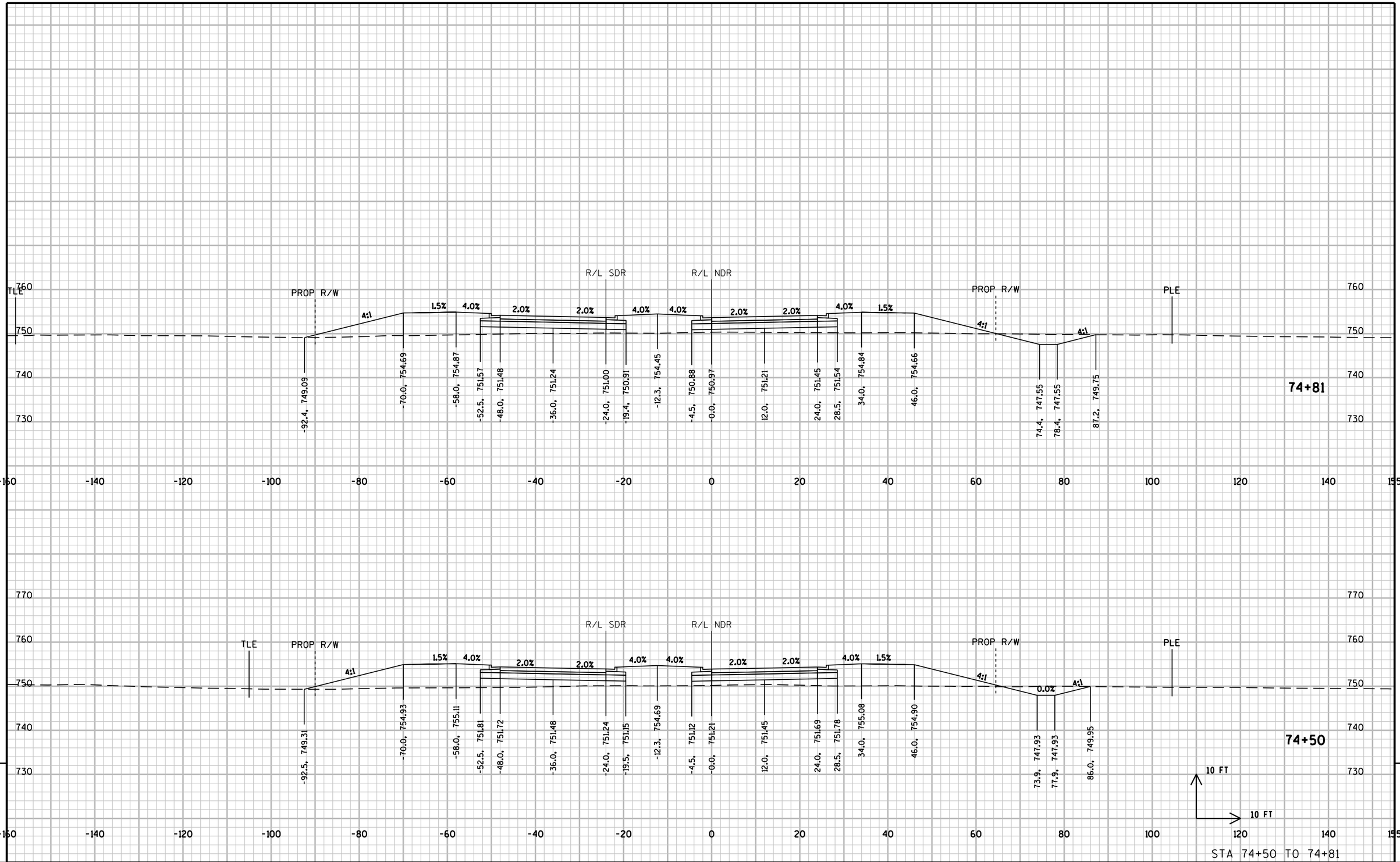


STA 73+50 TO 74+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 303	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

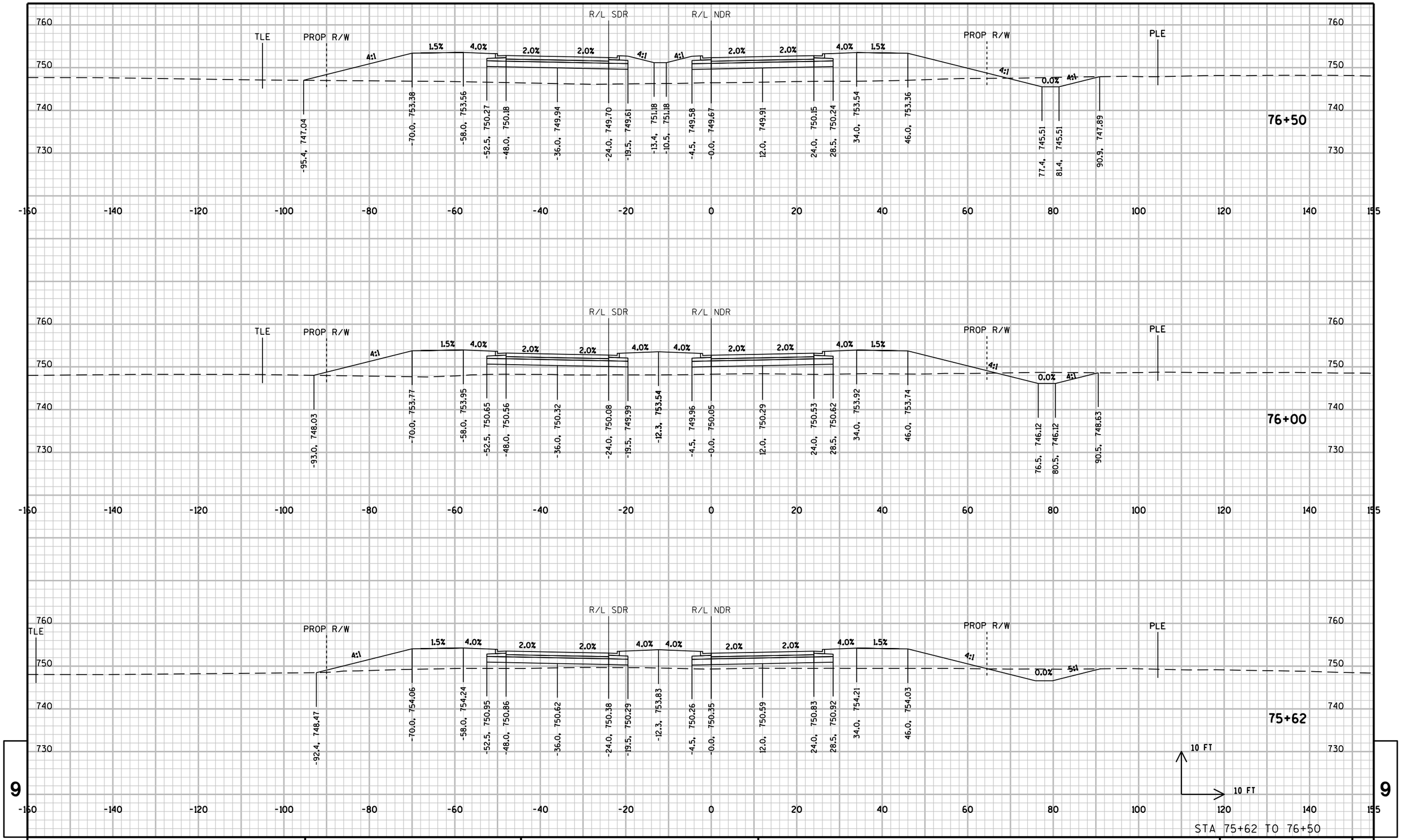
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 304	E



STA 75+62 TO 76+50

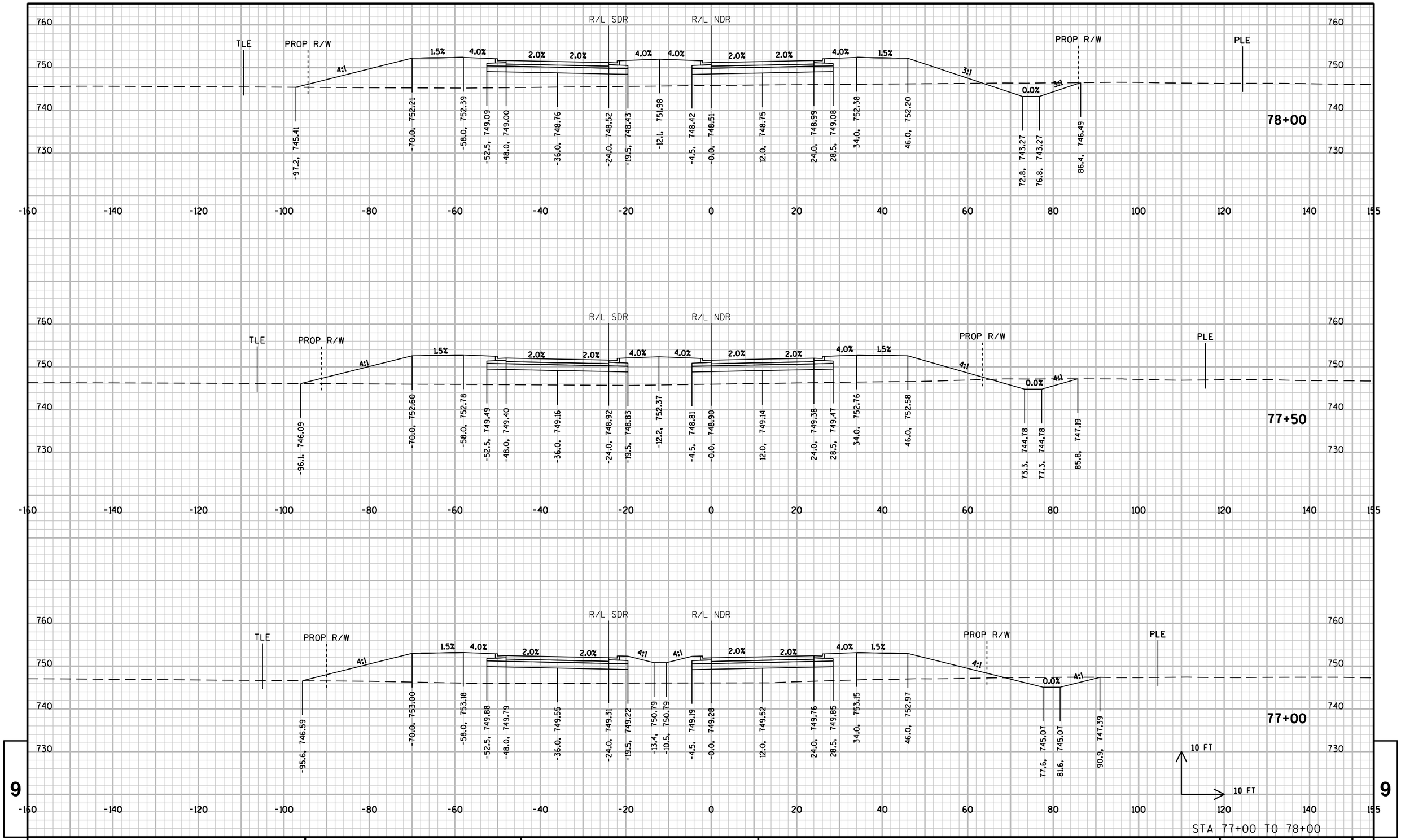
9

9

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



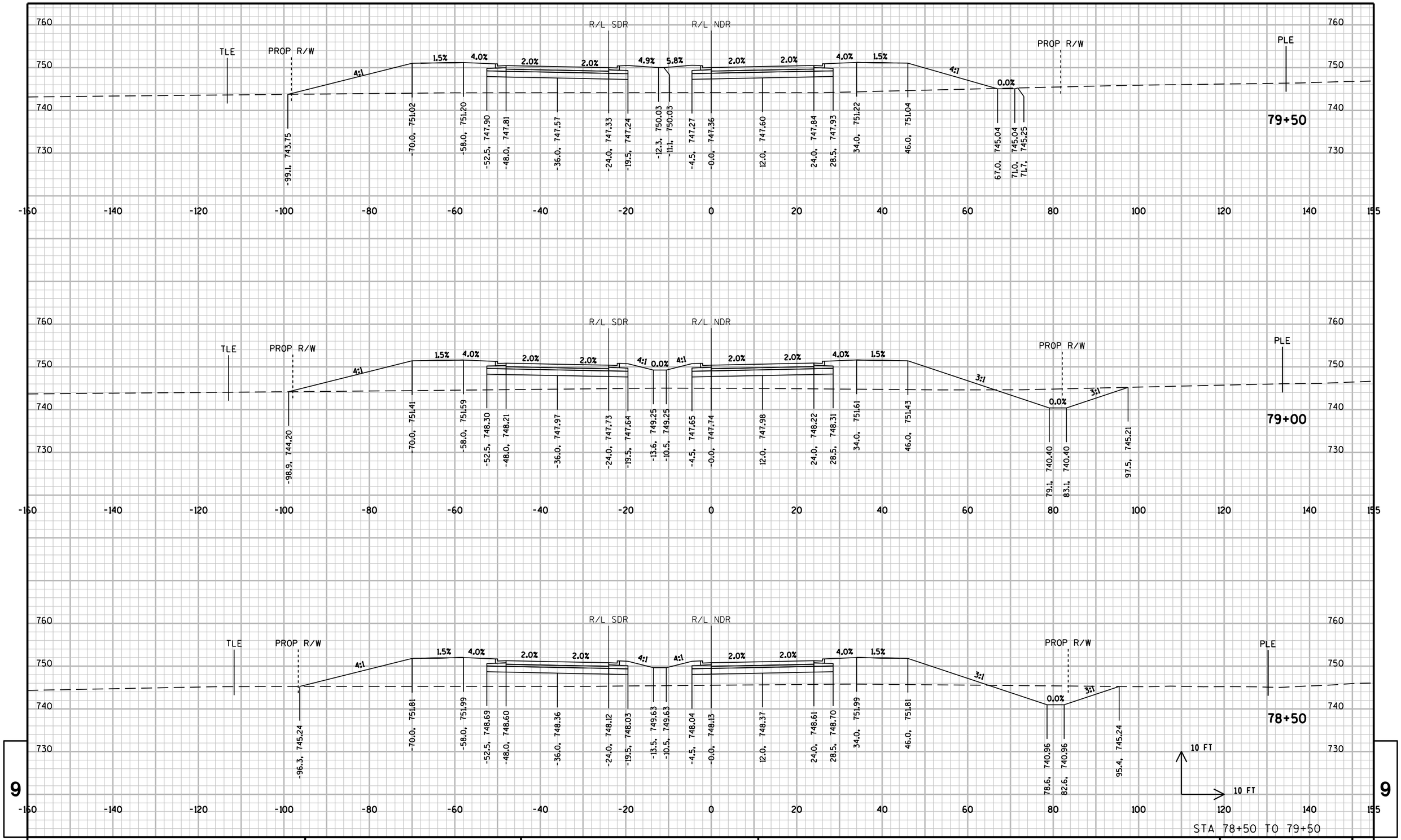
9

9

STA 77+00 TO 78+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn
PLOT DATE : 5/1/2018
PLOT BY : ctomsak
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

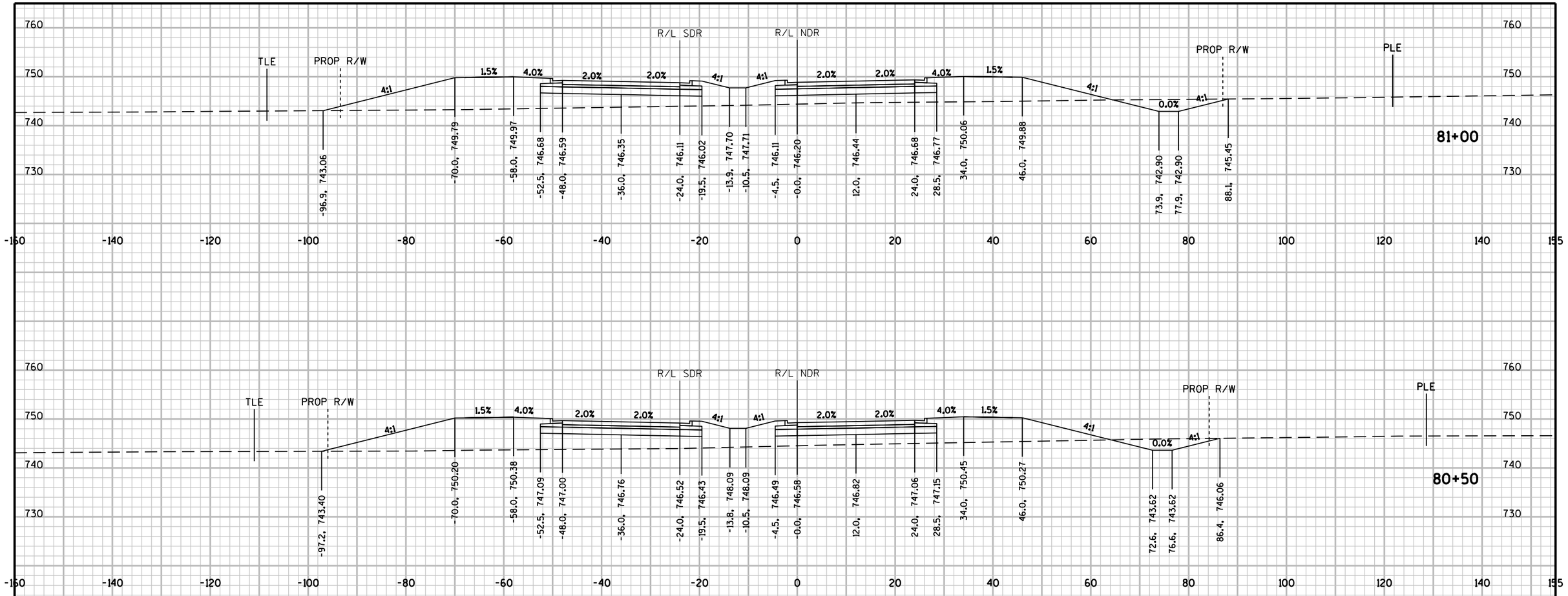


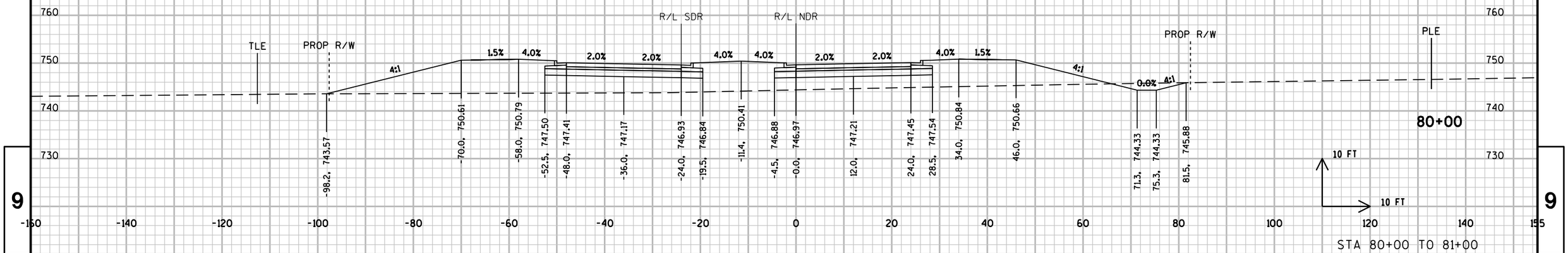
STA 78+50 TO 79+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

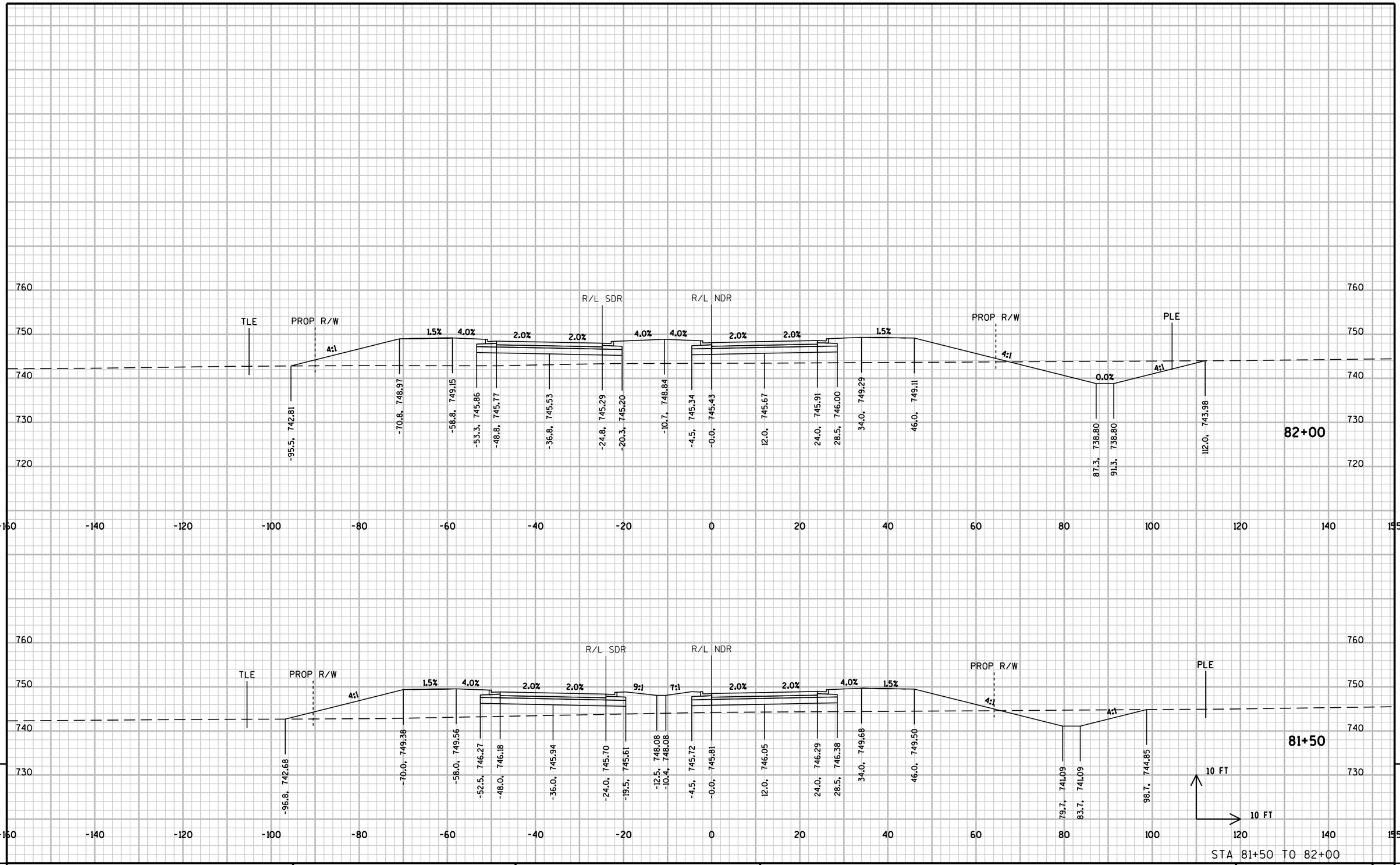




STA 80+00 TO 81+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 308	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

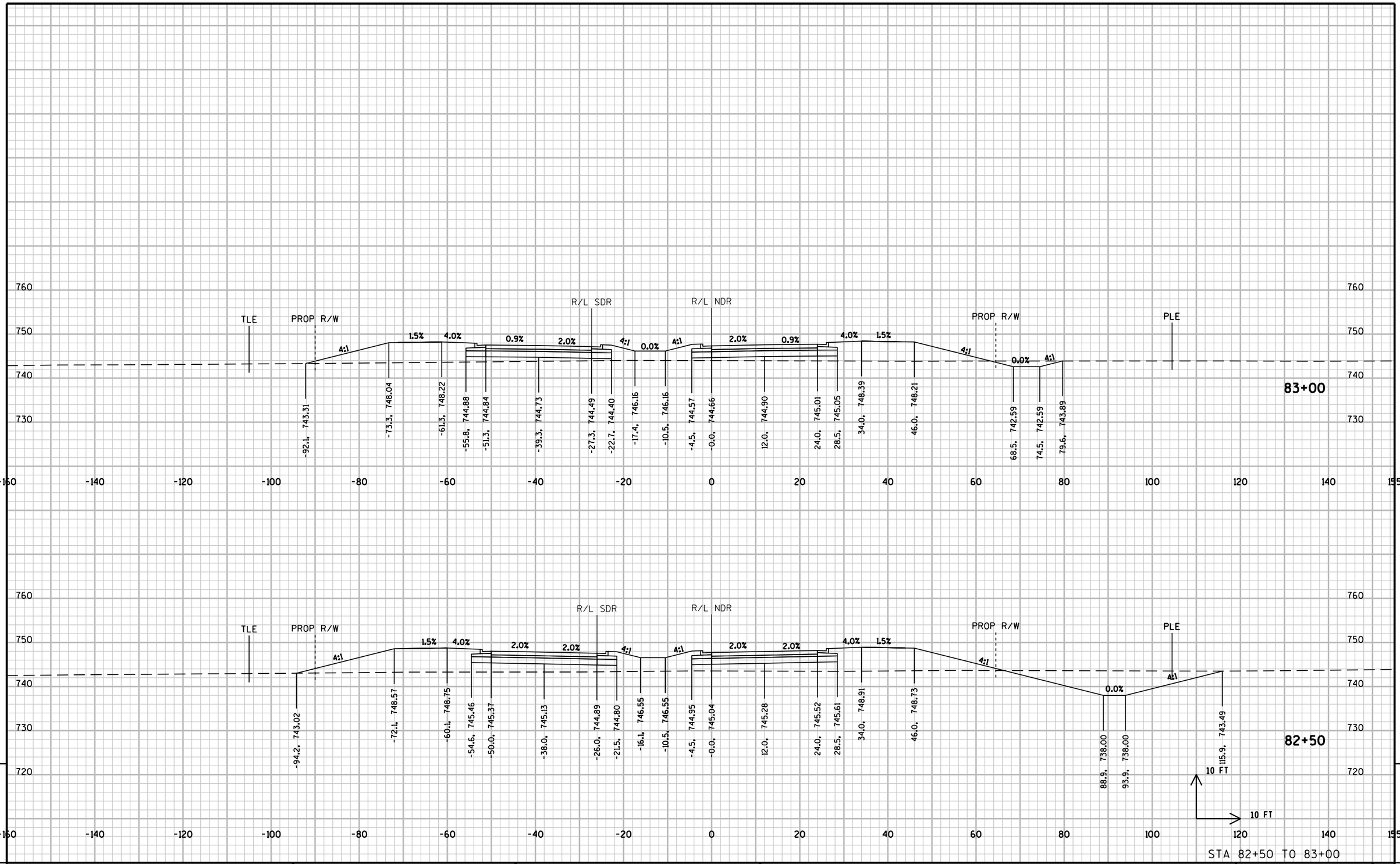


STA 81+50 TO 82+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 309	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

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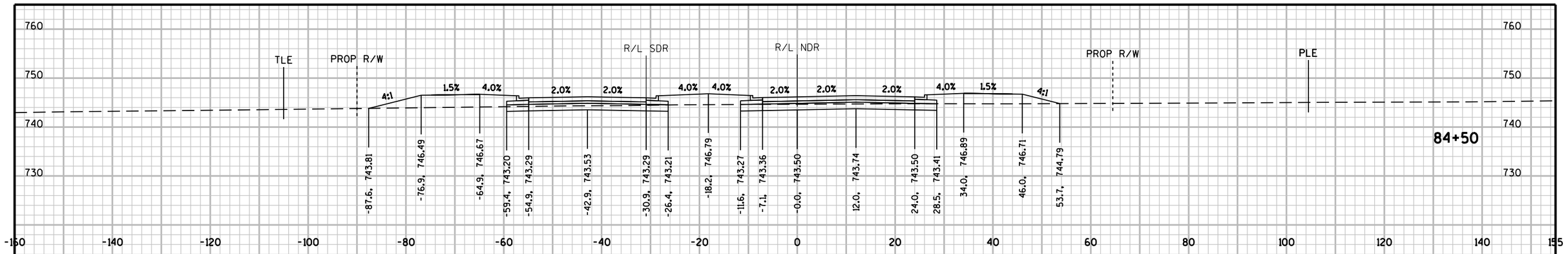
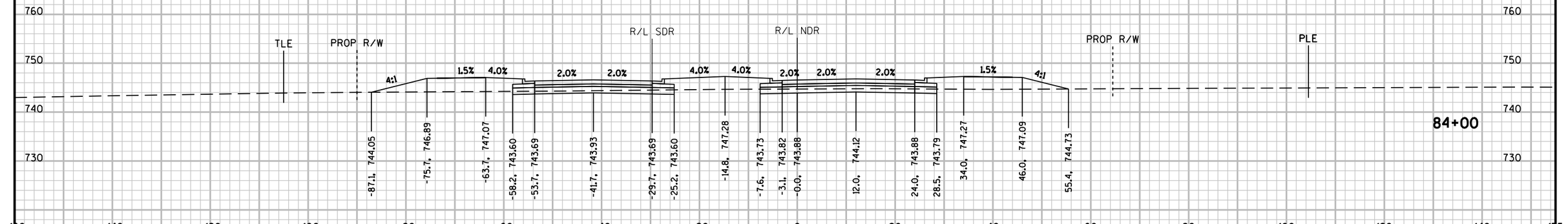
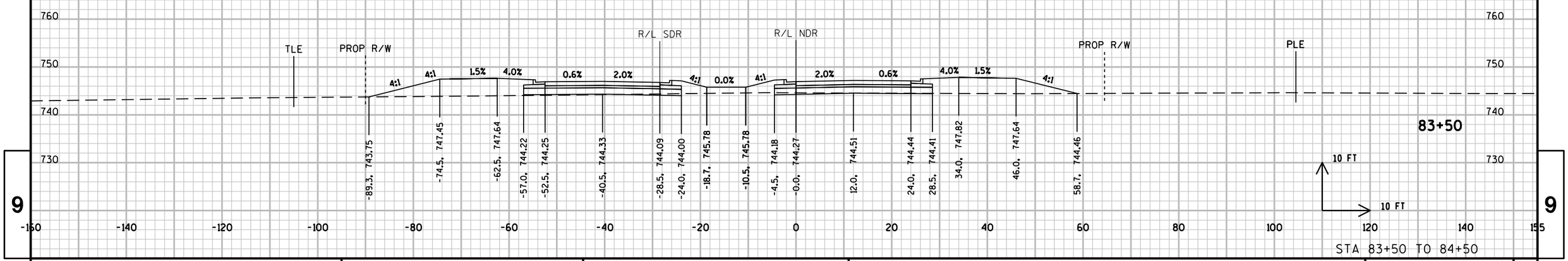
STA 82+50 TO 83+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\tl\cds\090201_xs.dgn
PLOT DATE : 5/1/2018
PLOT BY : ctomsak
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21







9

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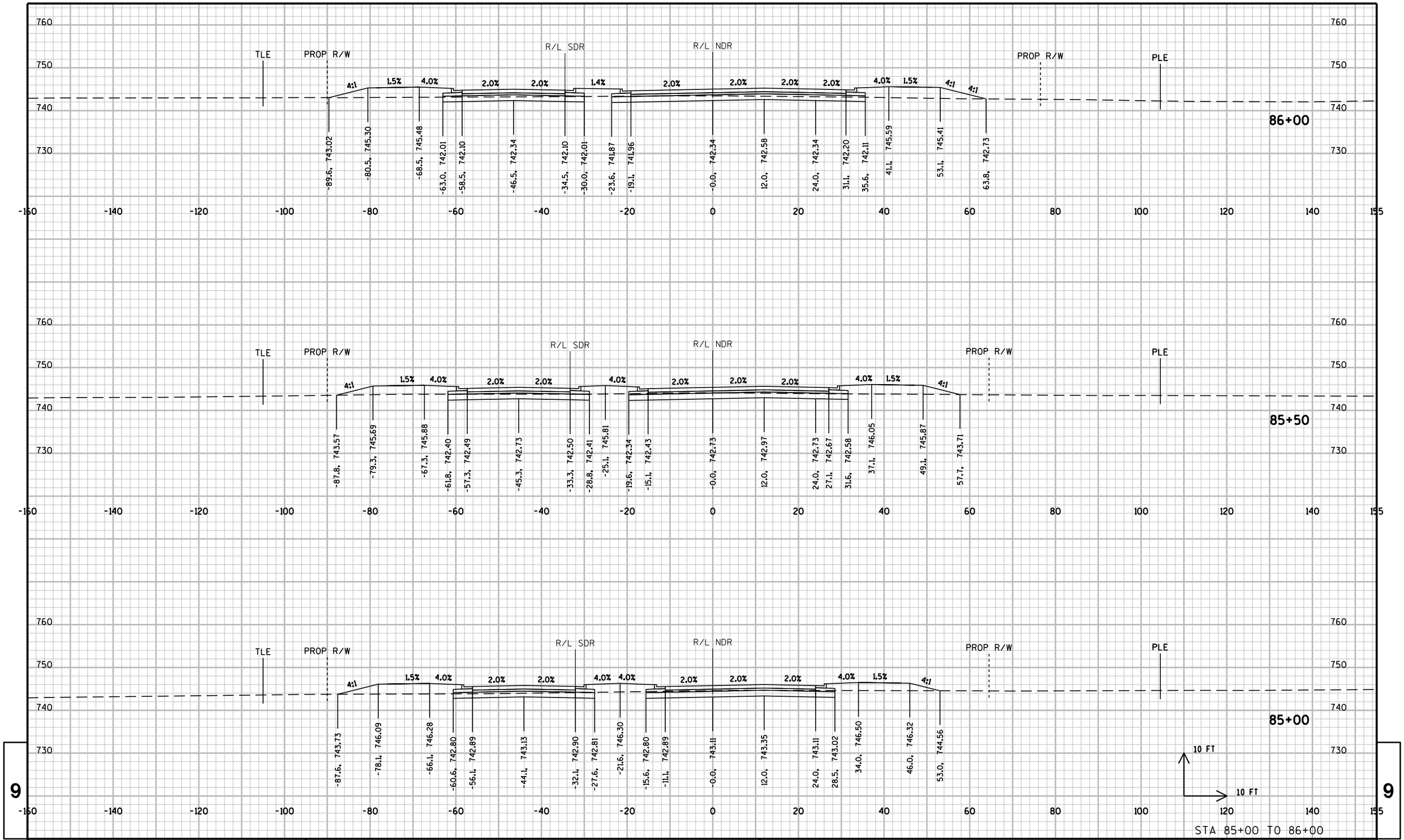
STA 83+50 TO 84+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

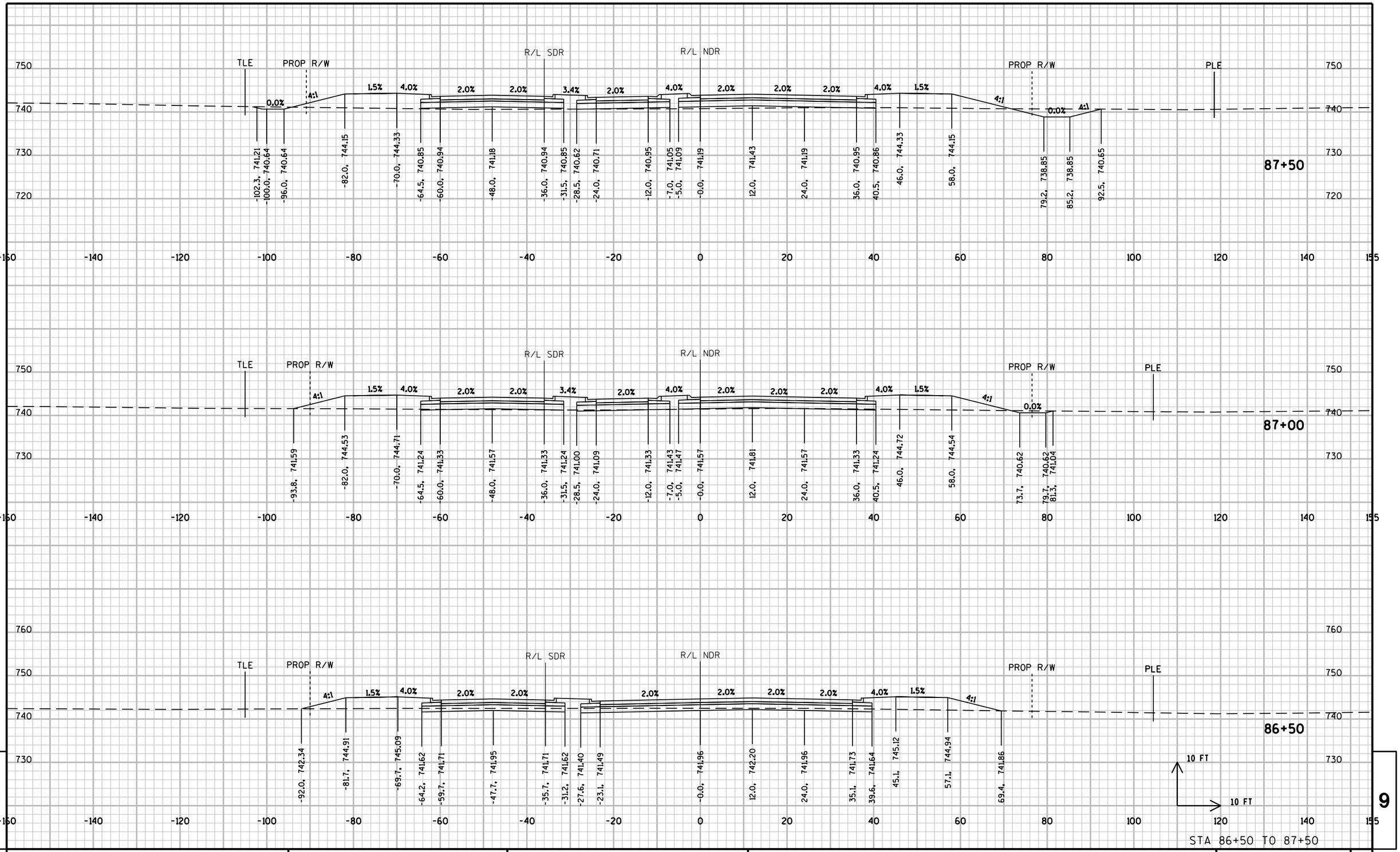
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 85+00 TO 86+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 312	E

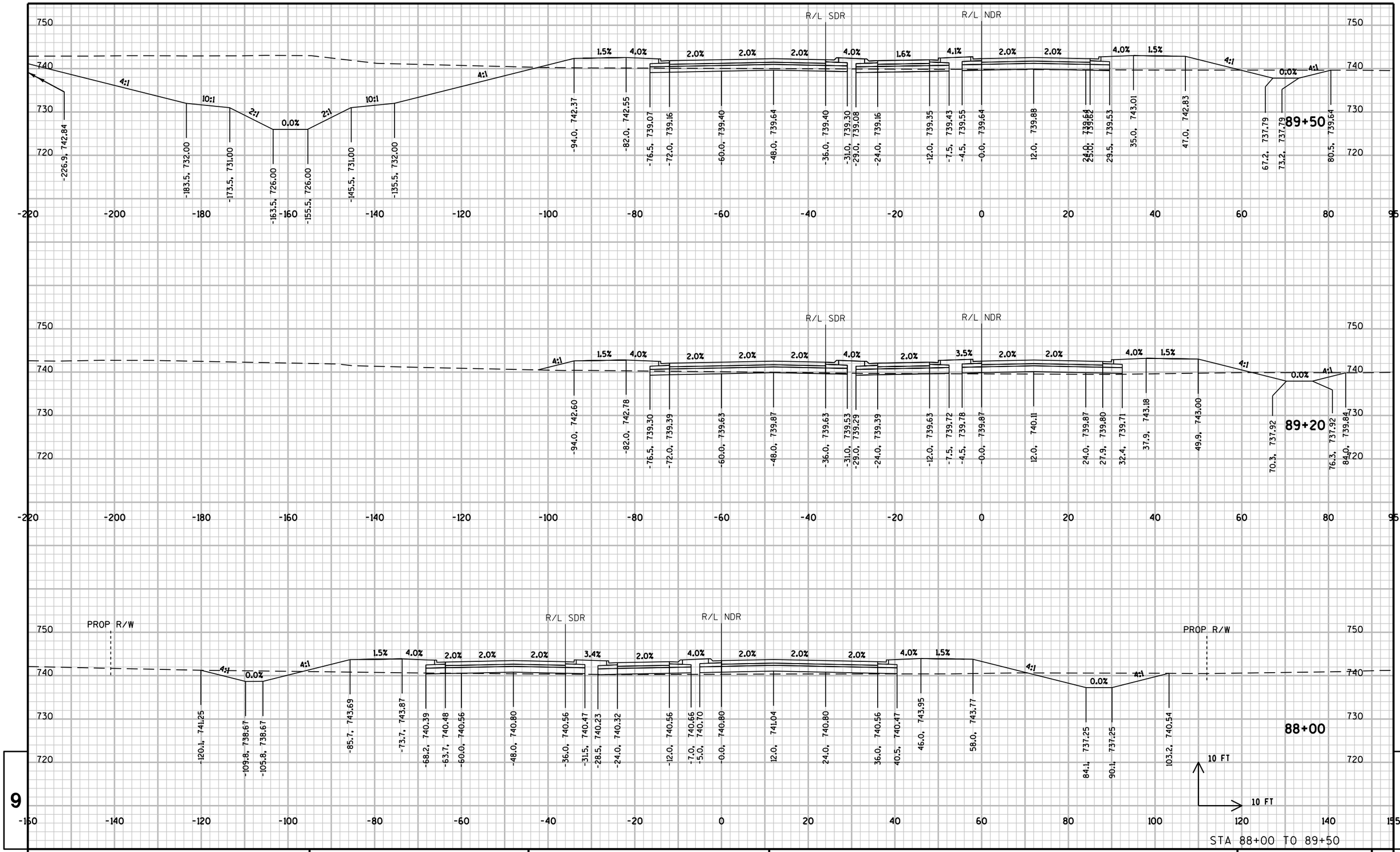


STA 86+50 TO 87+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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STA 88+00 TO 89+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

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PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9

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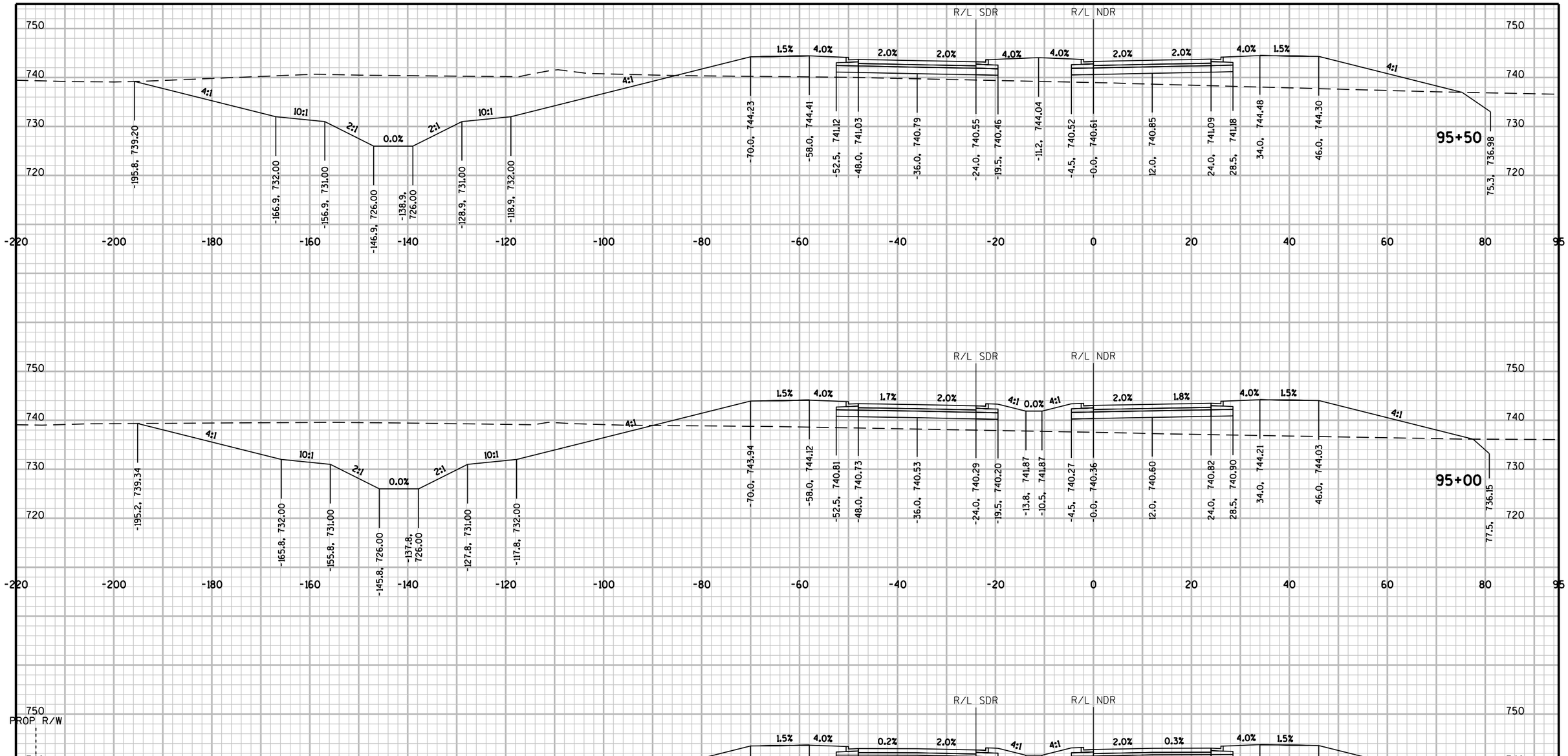
STA 93+00 TO 94+00

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

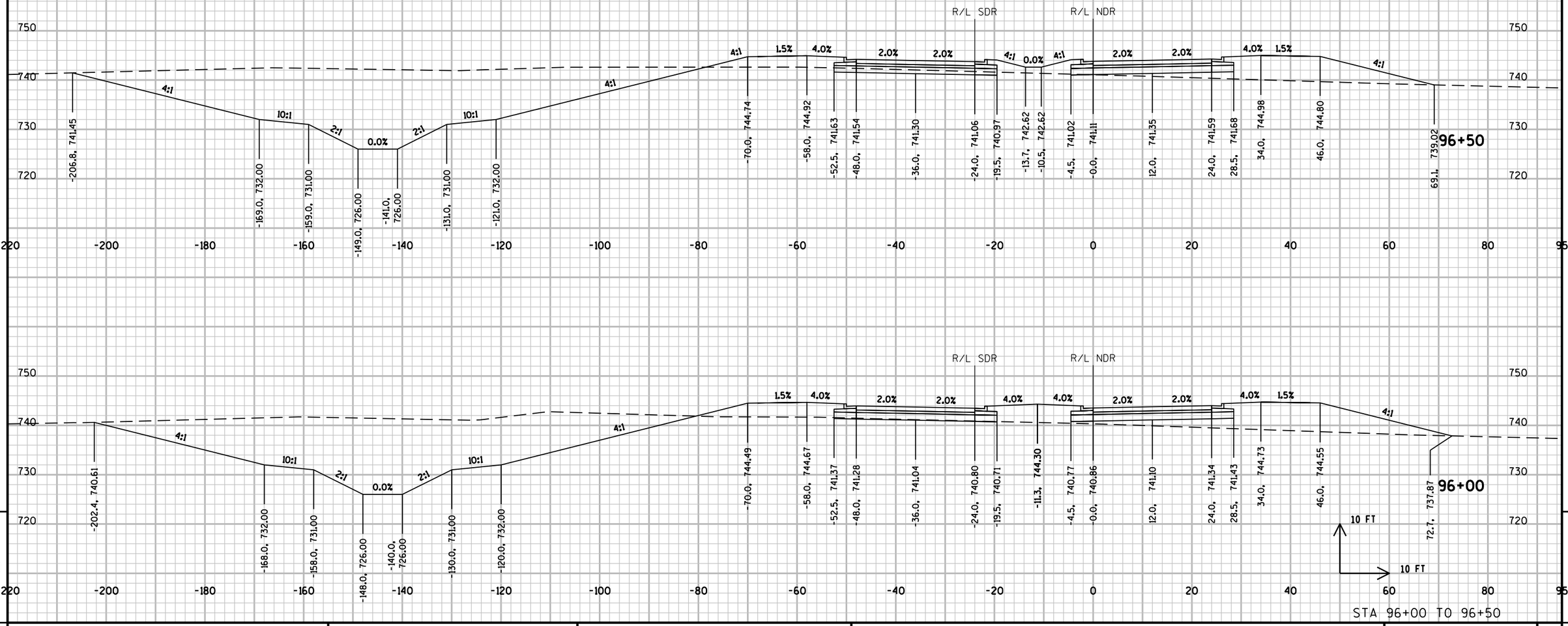
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn
PLOT DATE : 5/1/2018
PLOT BY : ctomsak
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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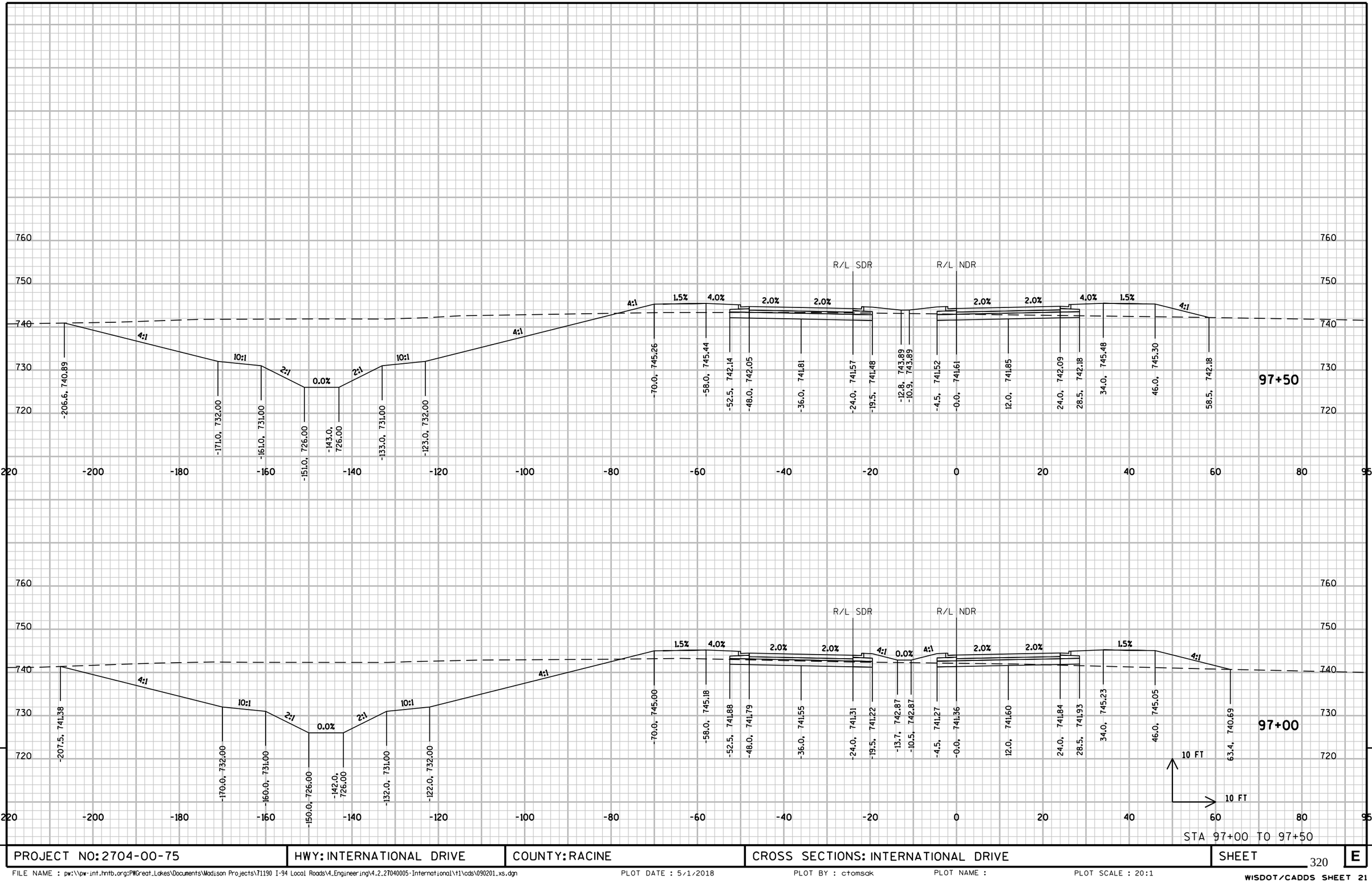
STA 96+00 TO 96+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

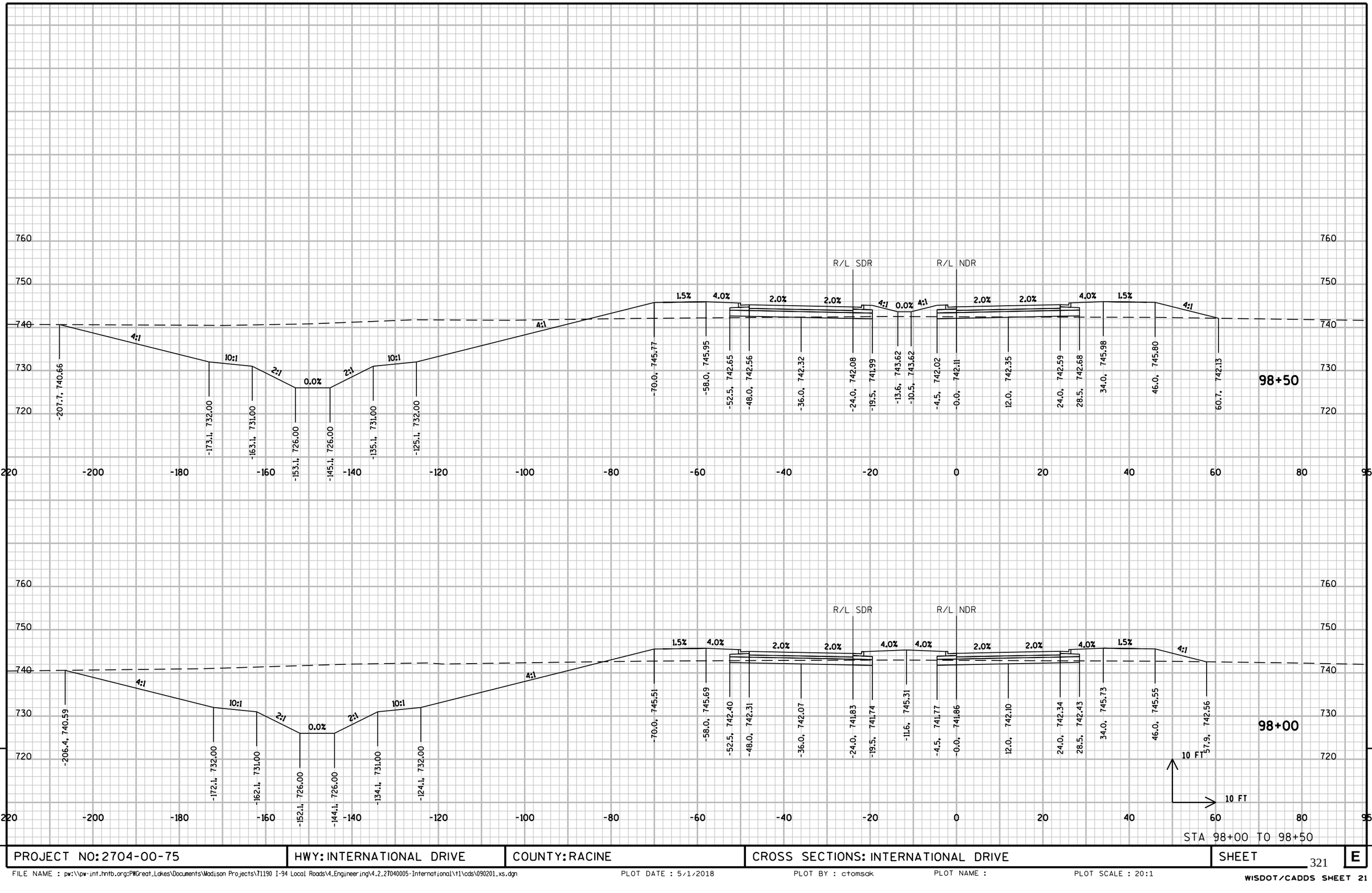


STA 97+00 TO 97+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 320	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

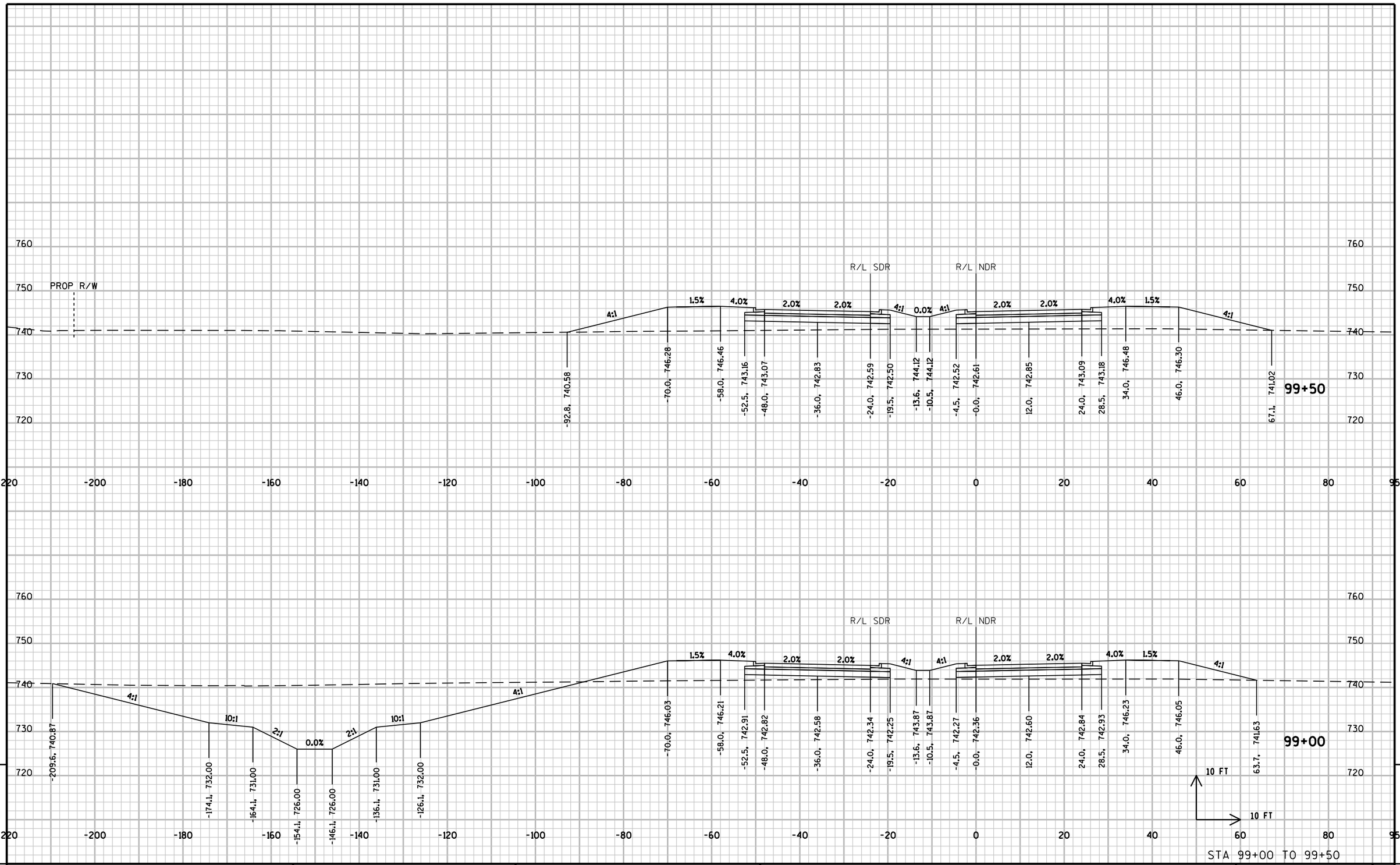


STA 98+00 TO 98+50

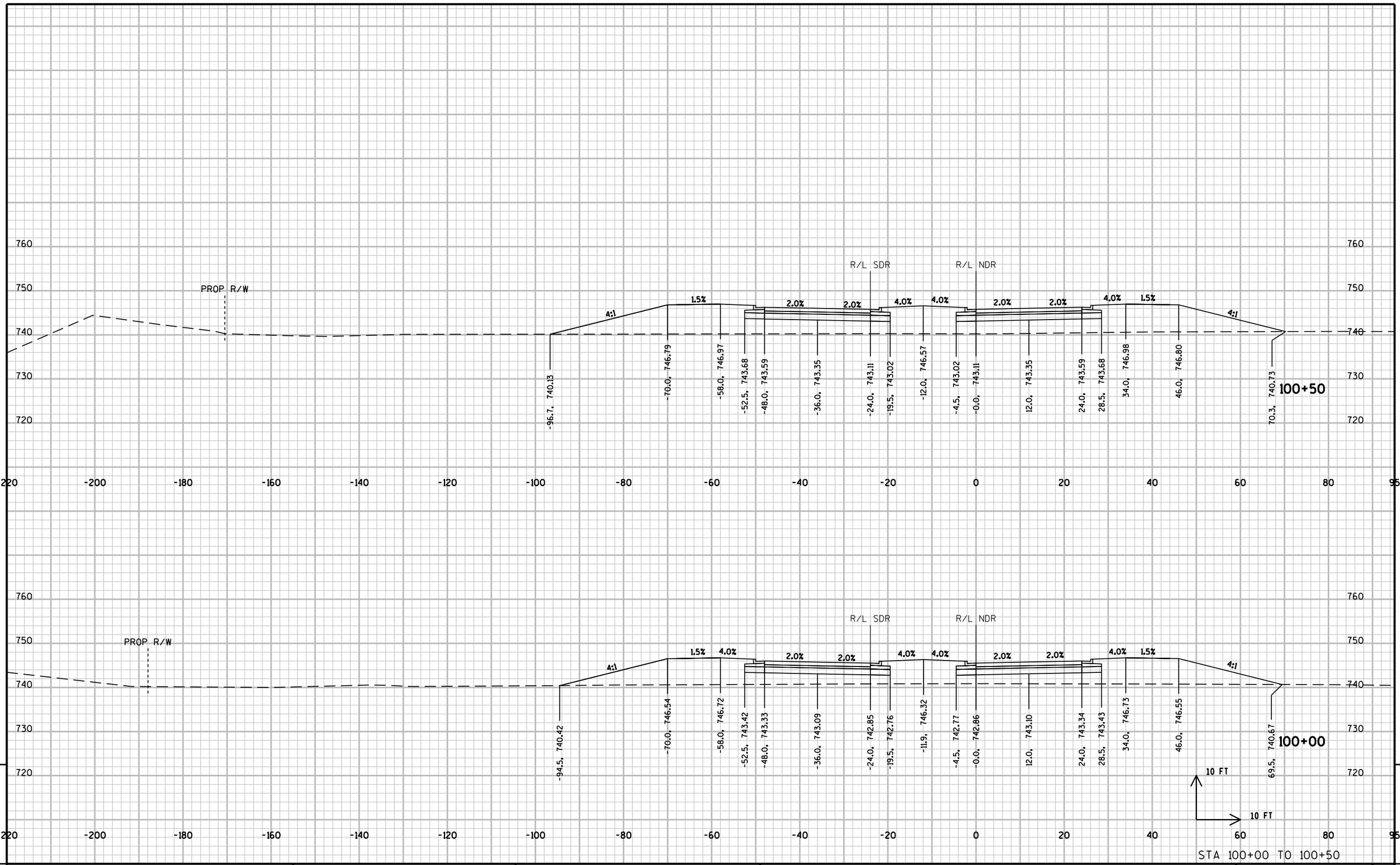
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 321	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 322	E

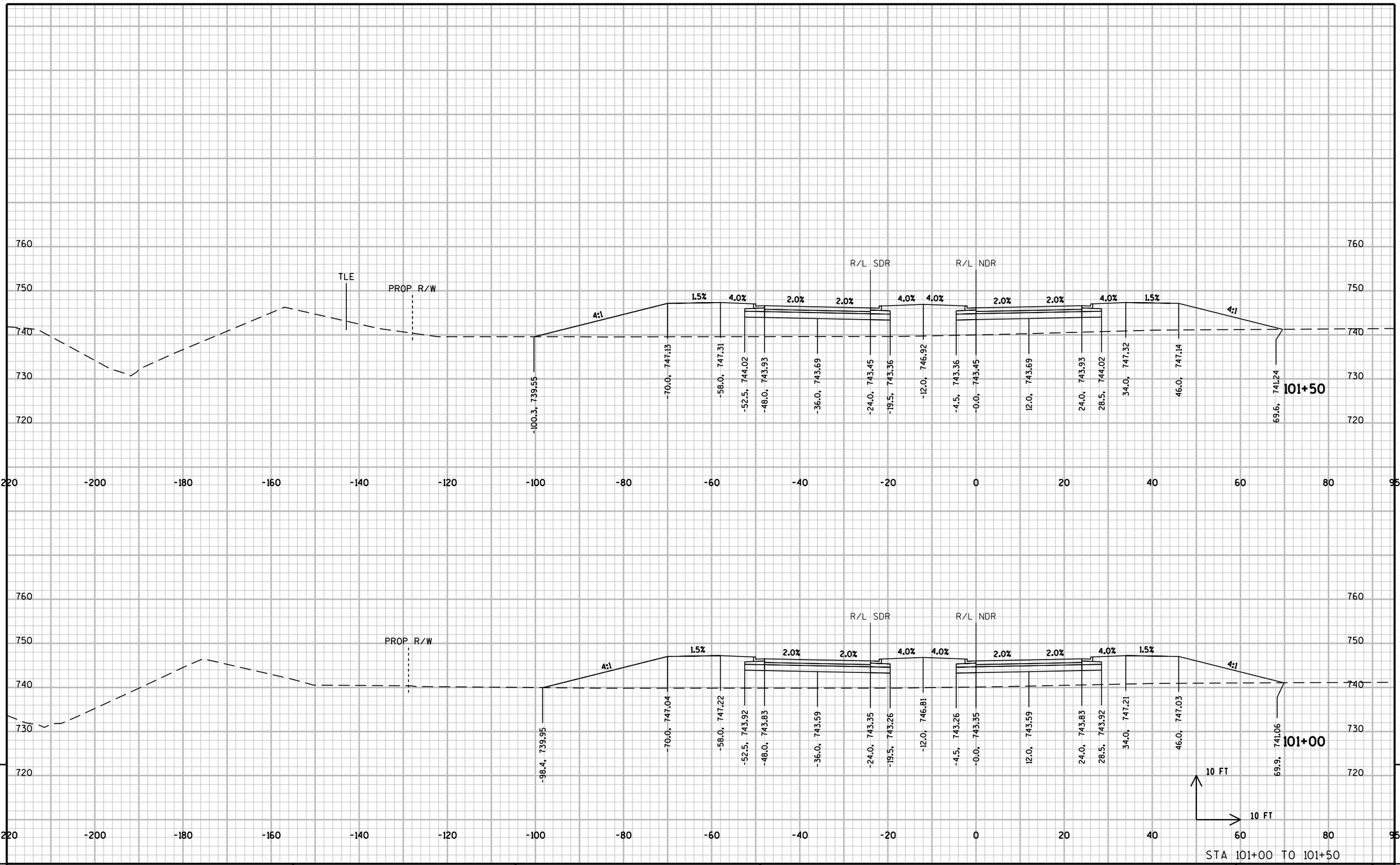


STA 100+00 TO 100+50

9

9

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 323	E

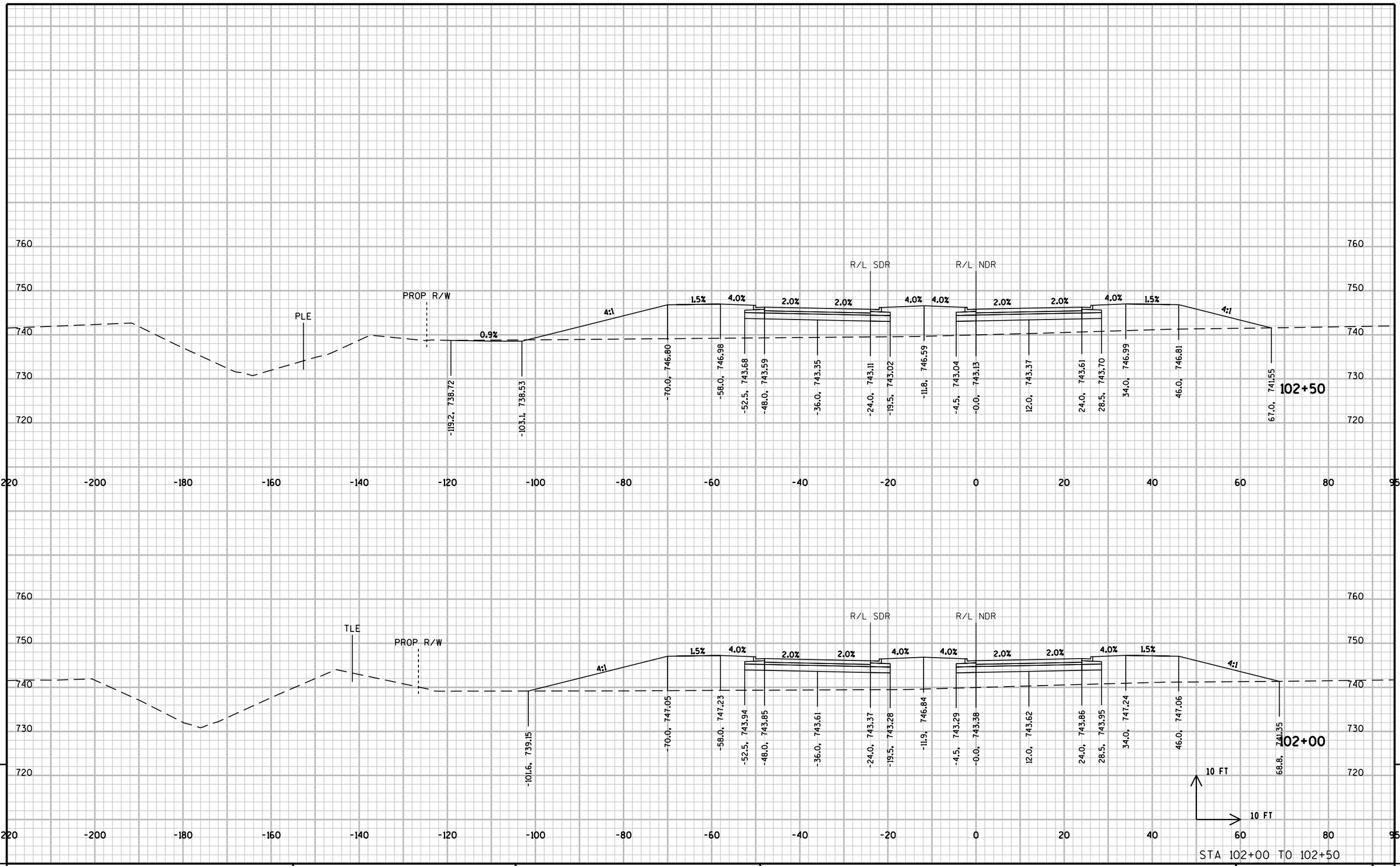


STA 101+00 TO 101+50

9

9

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 324	E

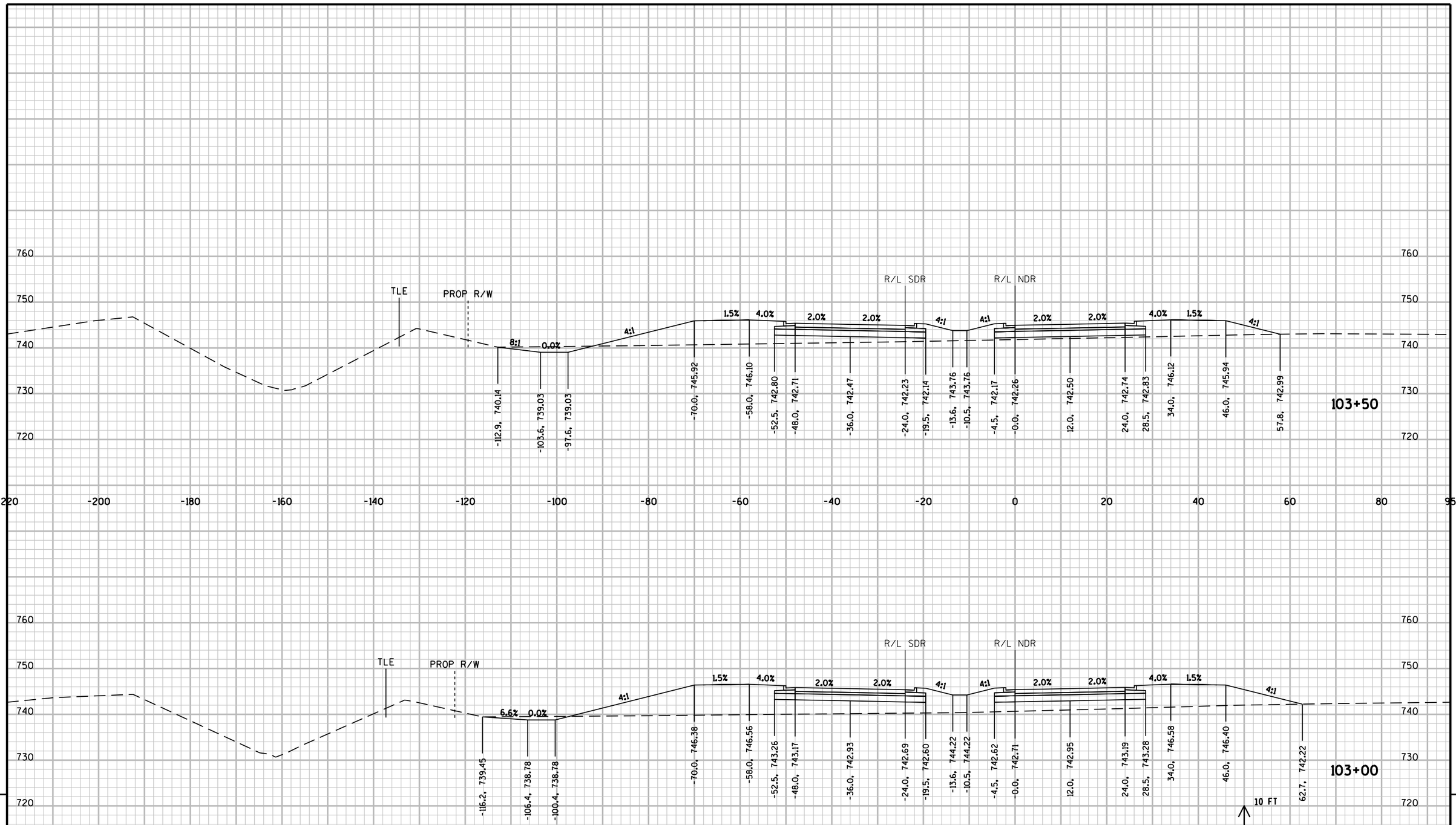


STA 102+00 TO 102+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 325	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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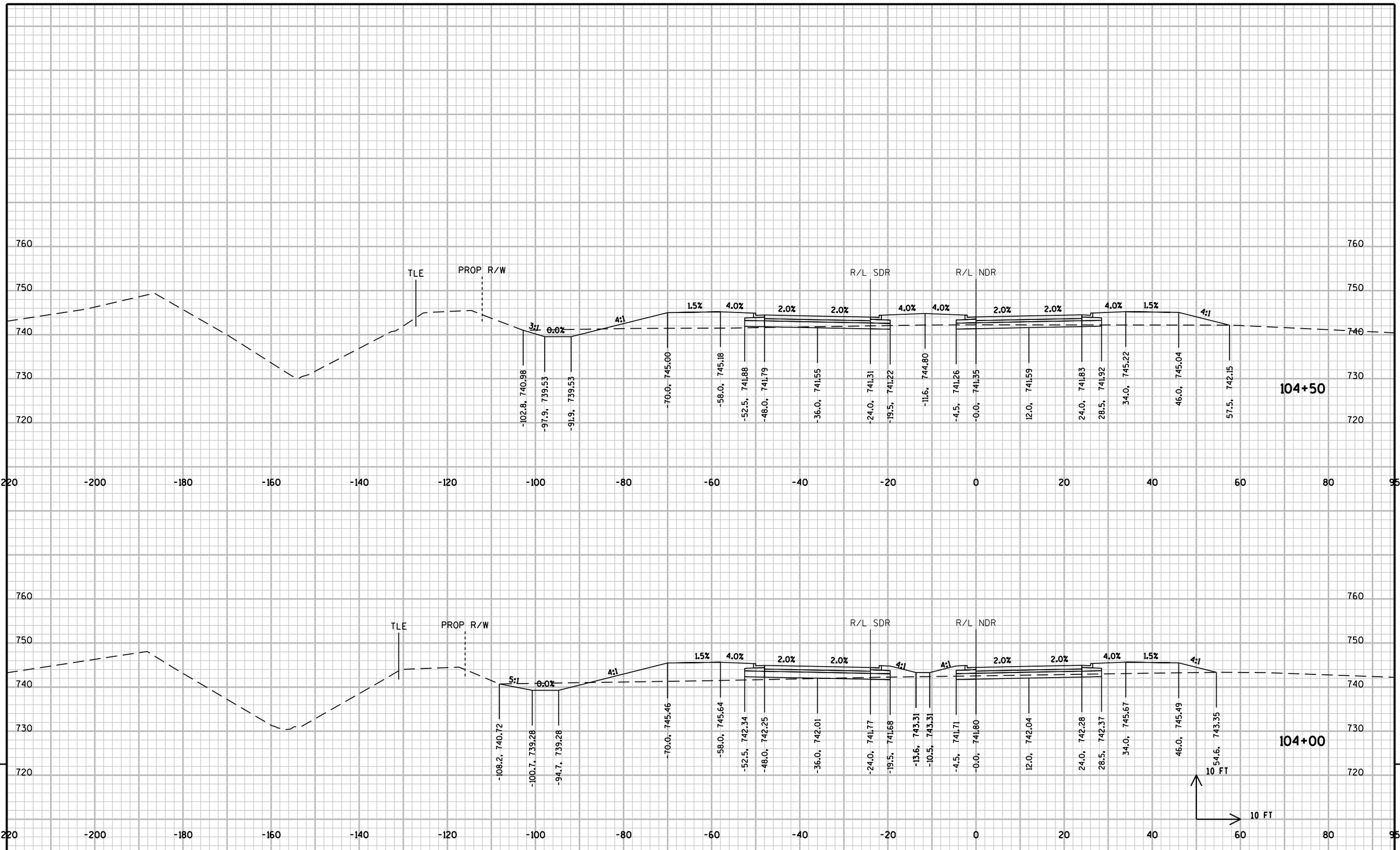
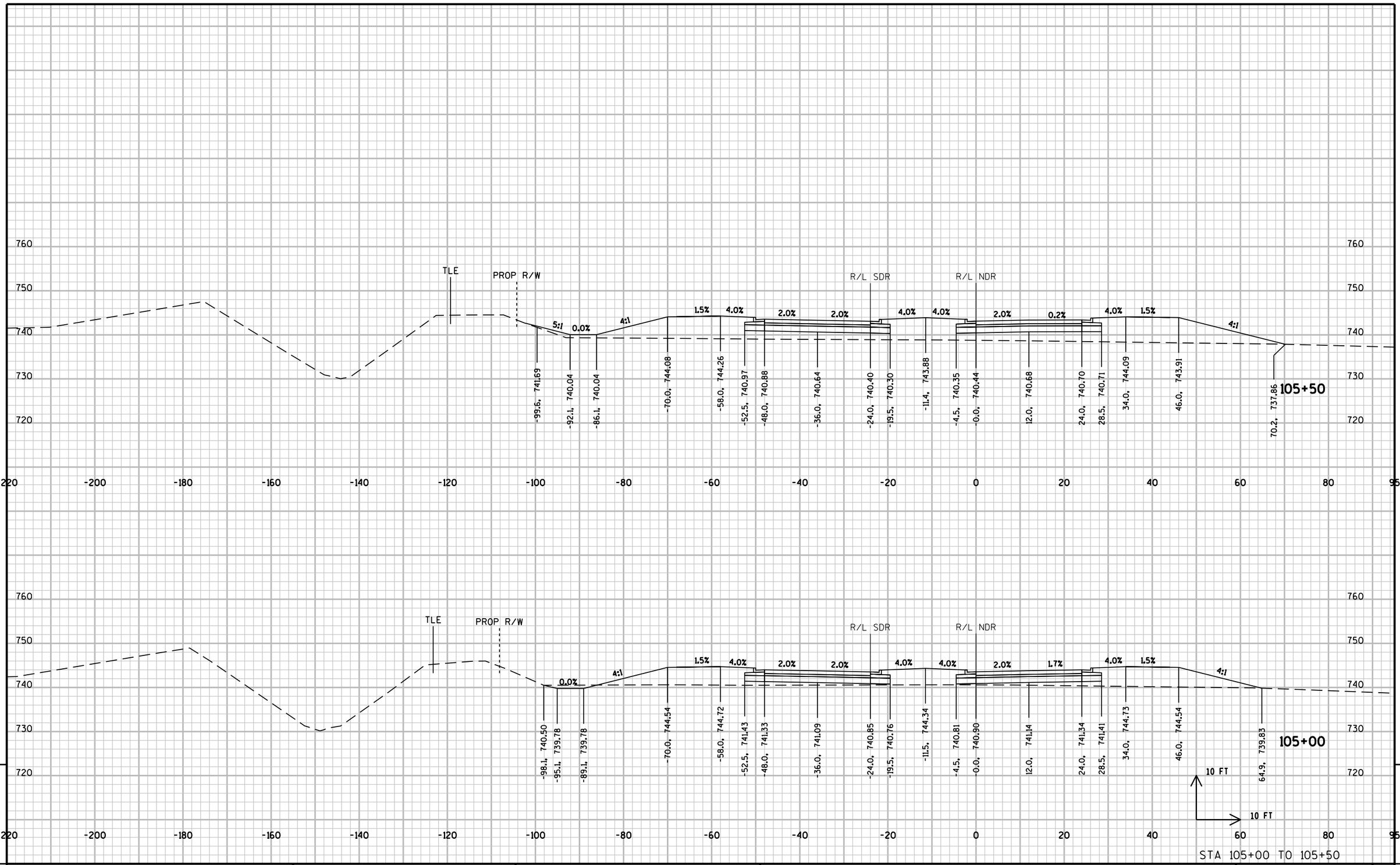
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 326	E



STA 104+00 TO 104+50

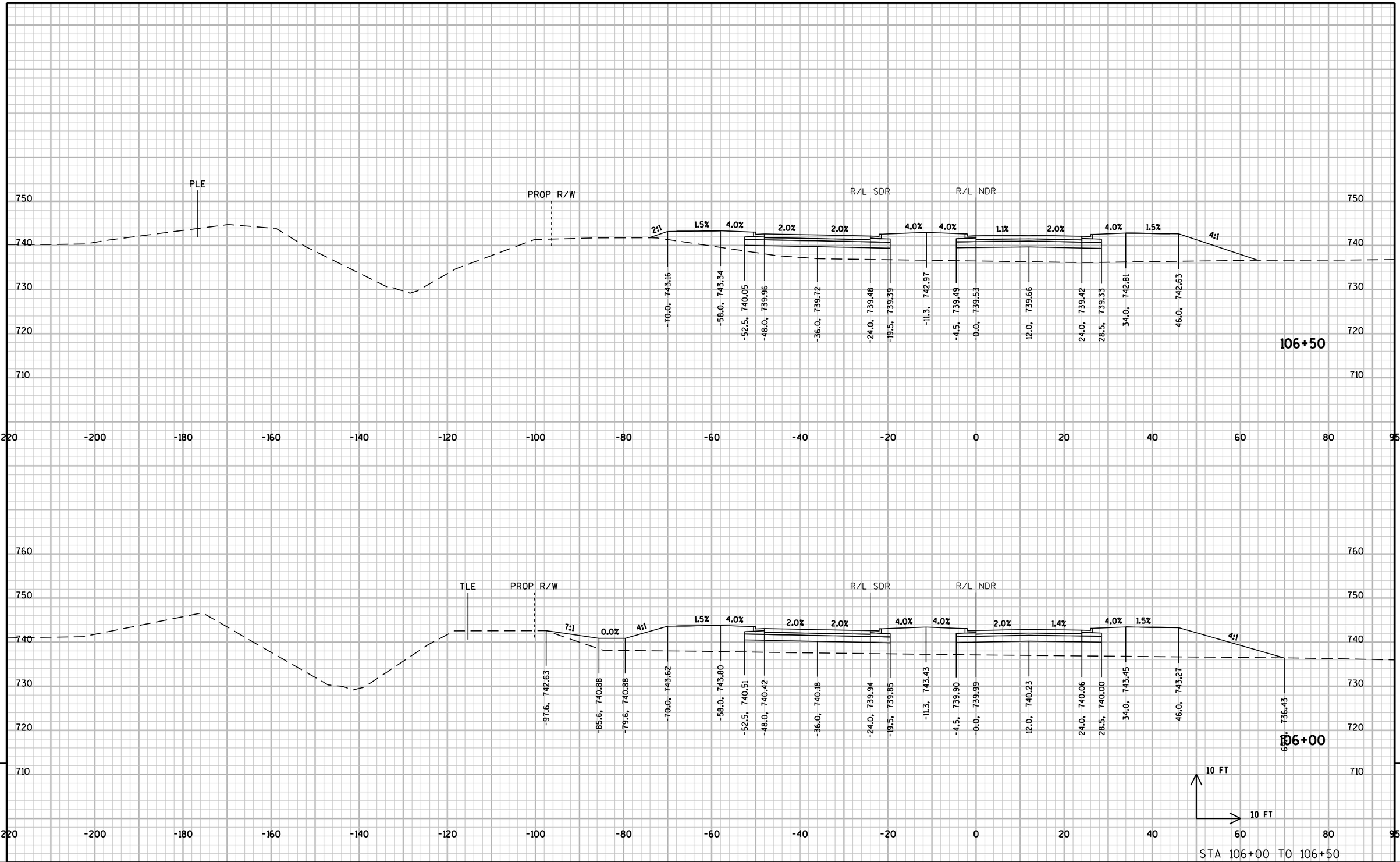
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 327	E



PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 328	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

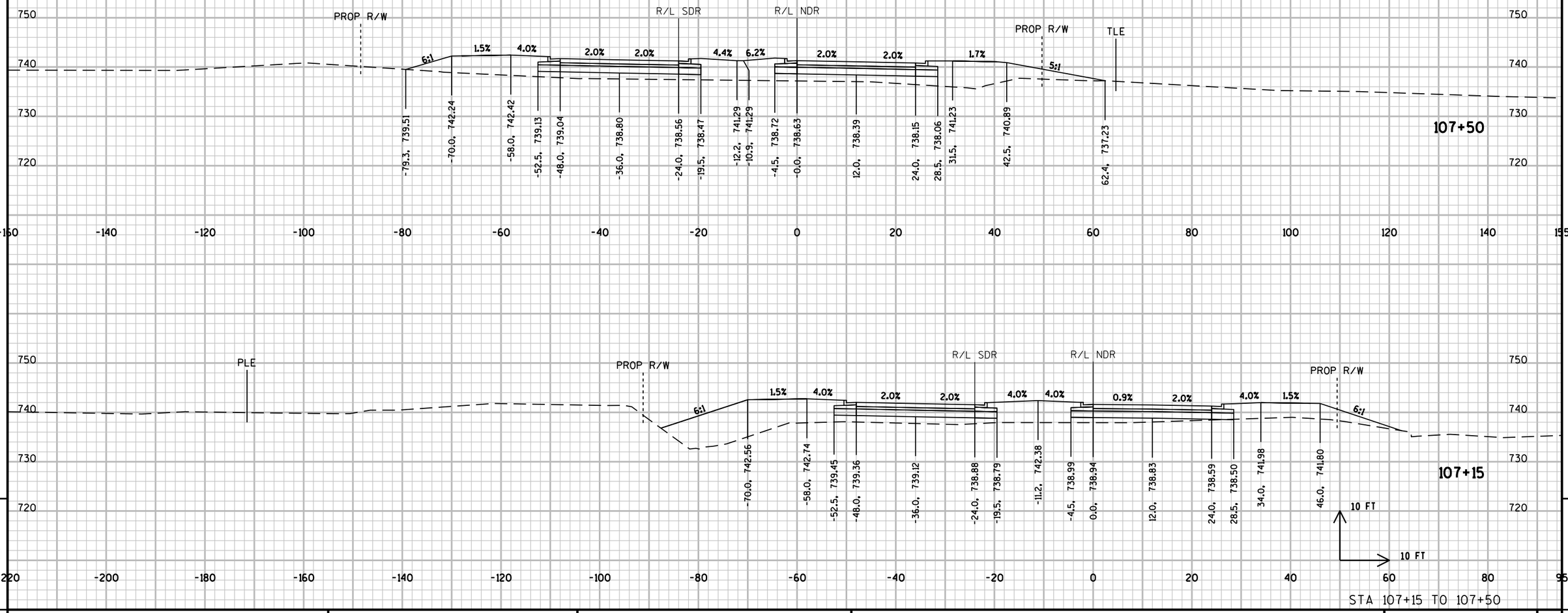


STA 106+00 TO 106+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 329	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

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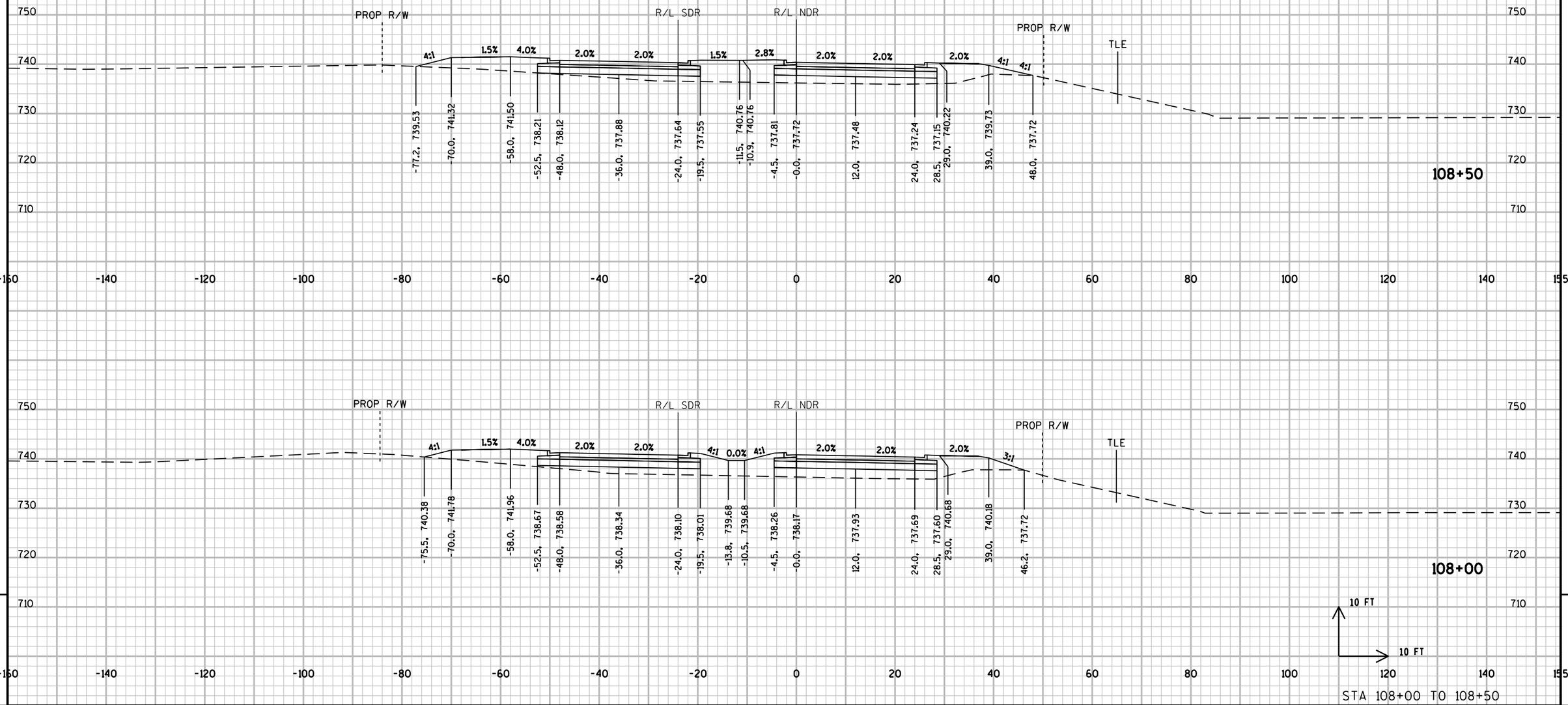
STA 107+15 TO 107+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 330	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn
PLOT DATE : 5/1/2018
PLOT BY : ctomsak
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



9

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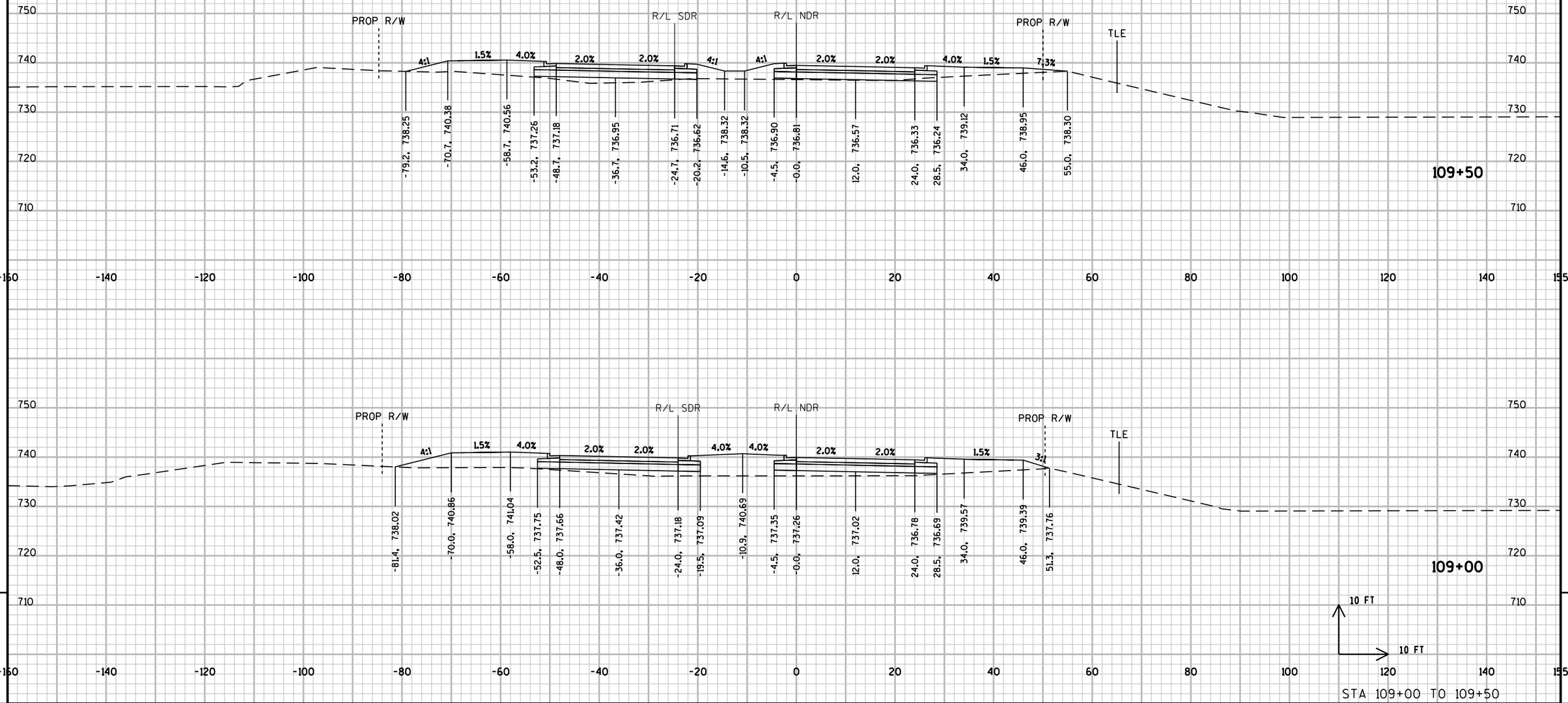
PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 331	E

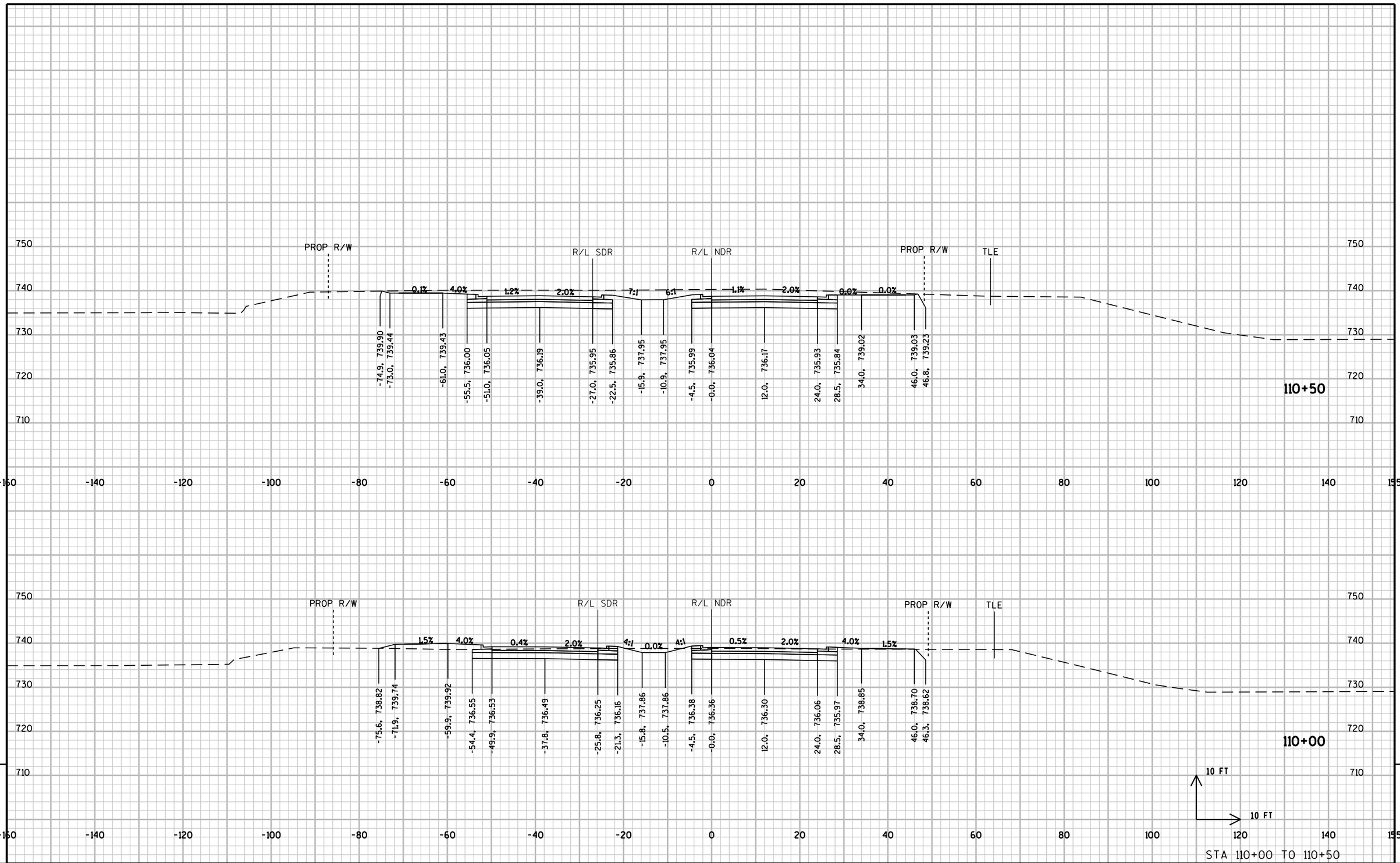
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 109+00 TO 109+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 332	E

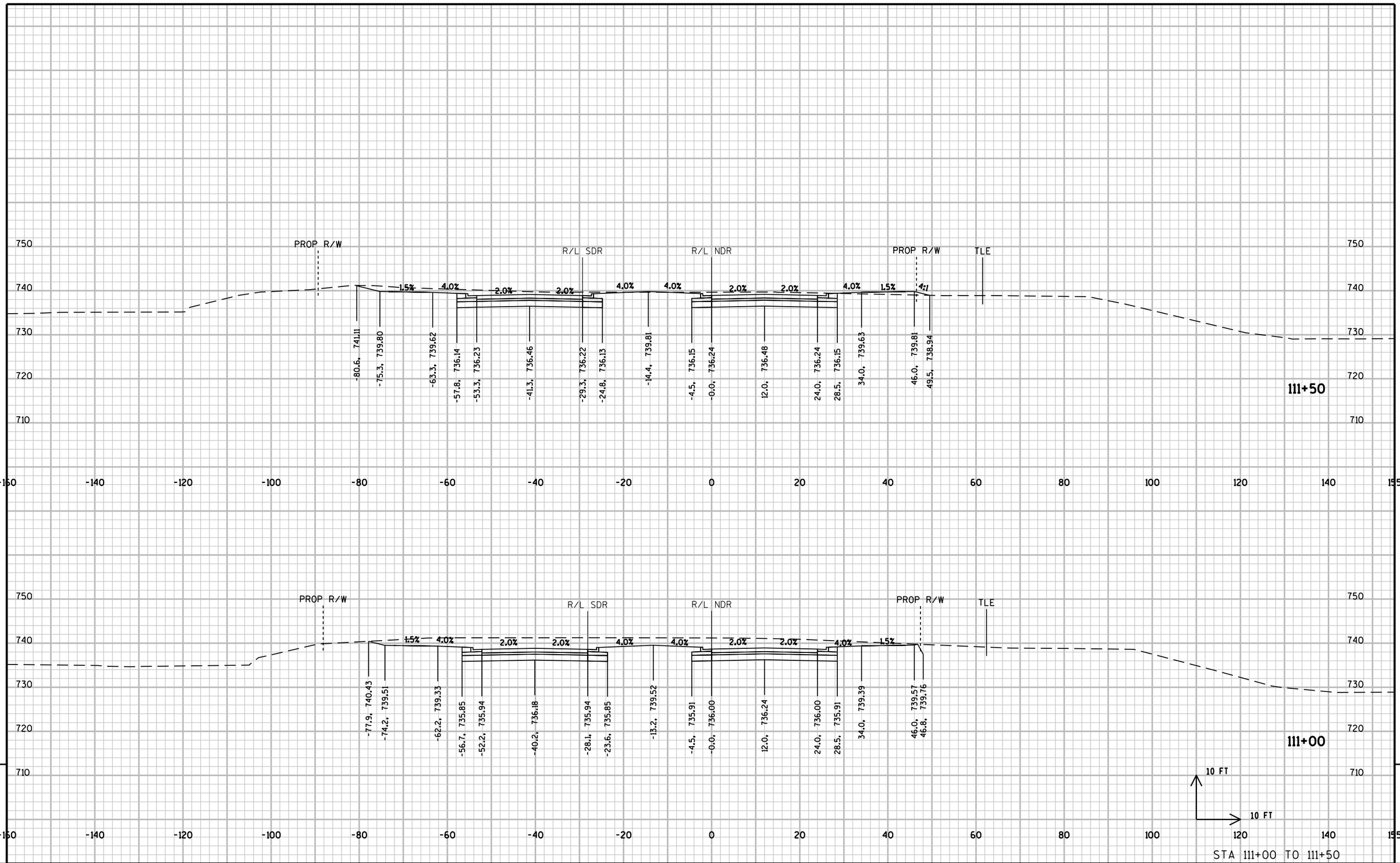


STA 110+00 TO 110+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 333	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090201_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

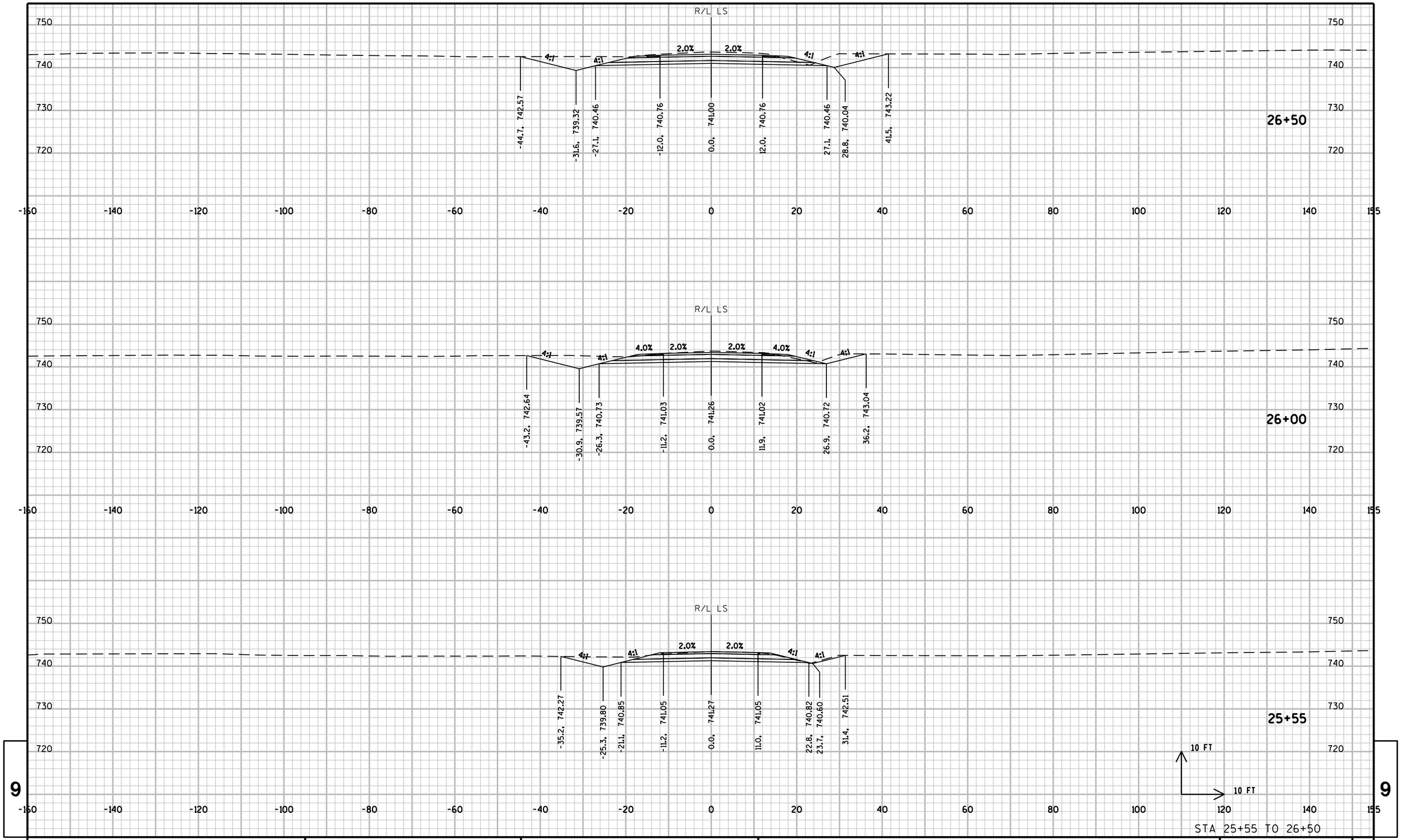


9

9

STA 111+00 TO 111+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: INTERNATIONAL DRIVE	SHEET 334	E



9

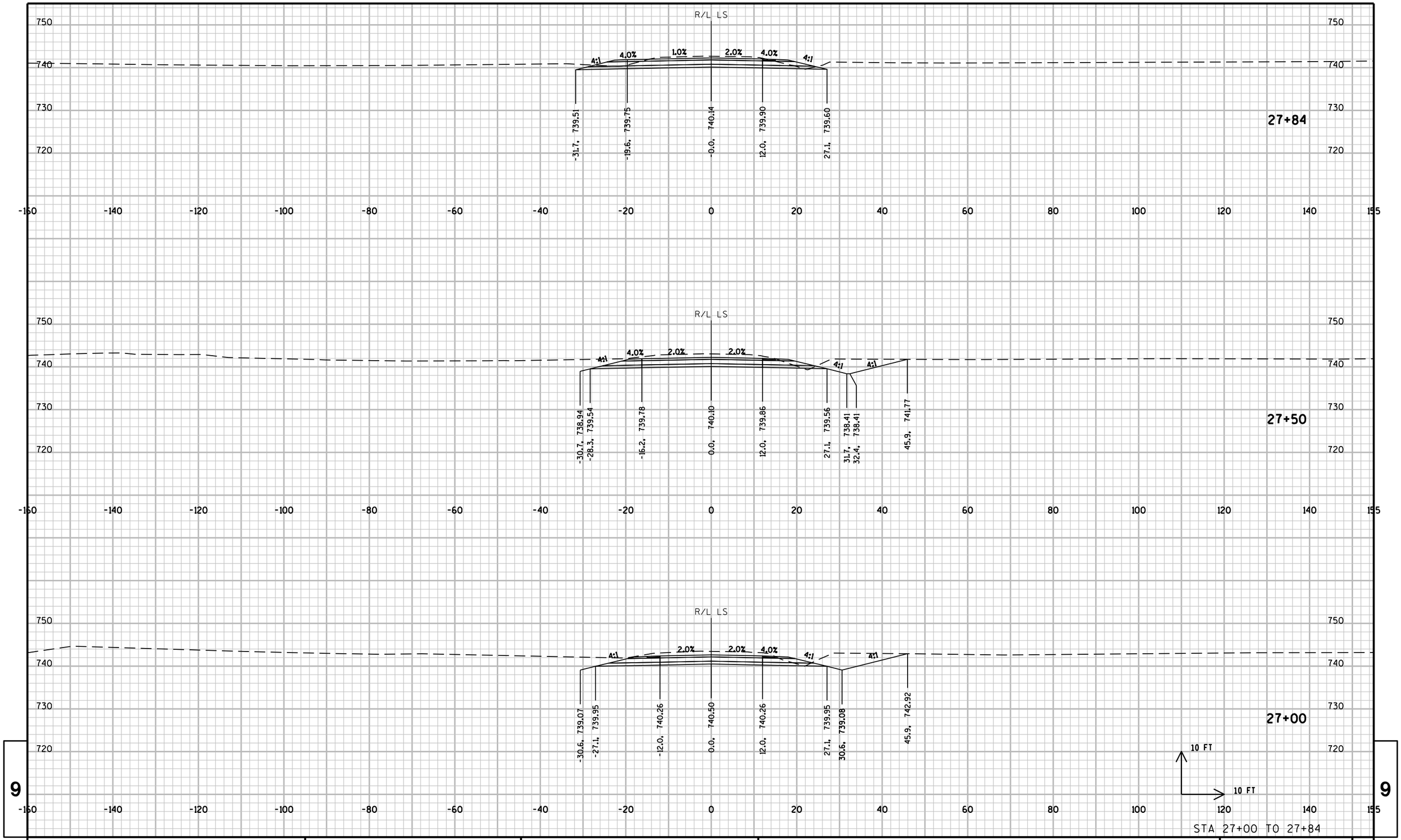
9

STA 25+55 TO 26+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090202_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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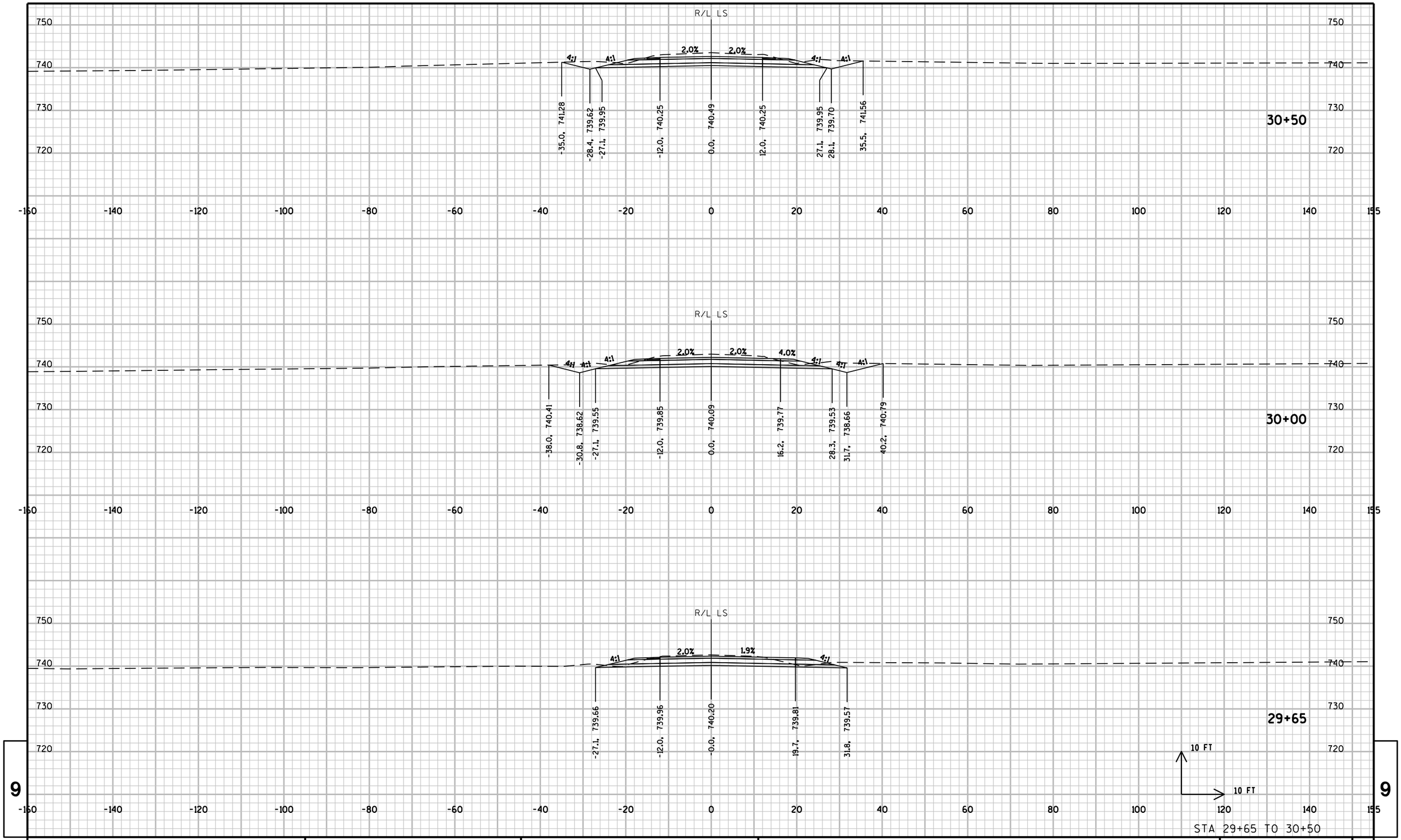
STA 27+00 TO 27+84

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090202_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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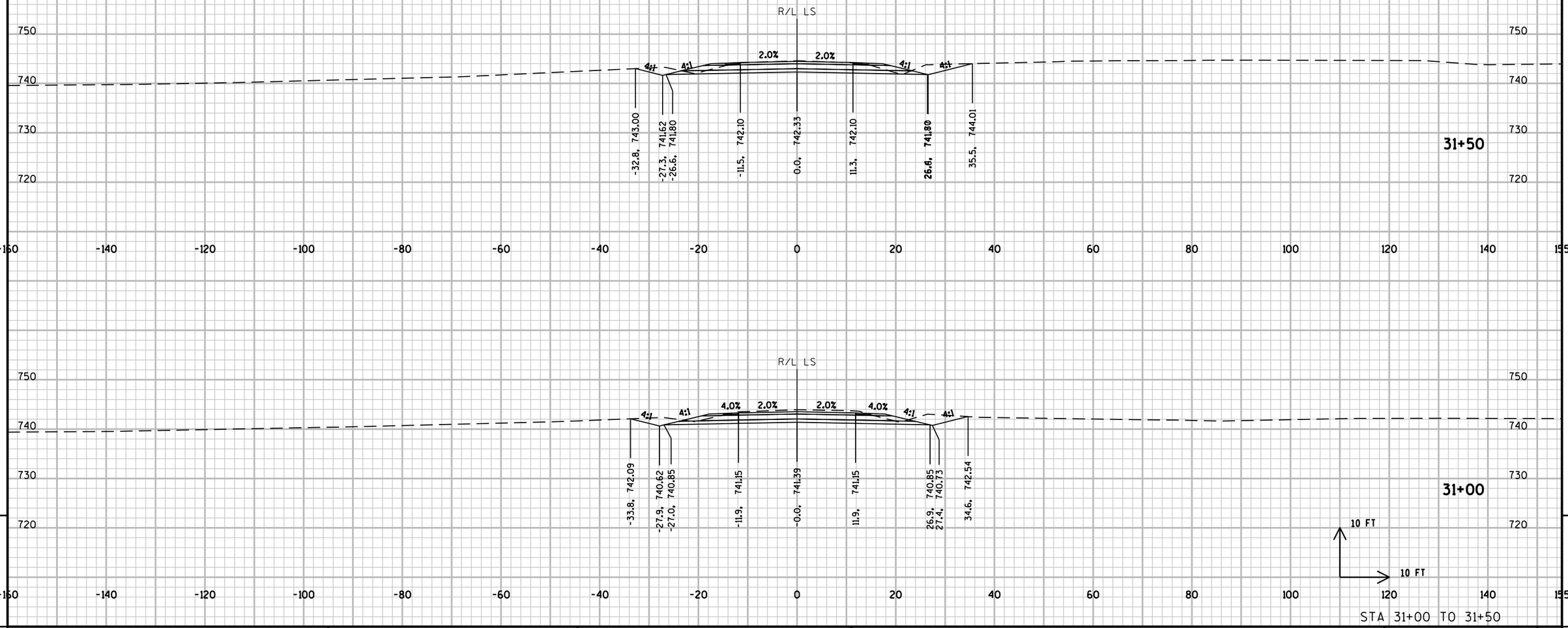
9

STA 29+65 TO 30+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON	SHEET 337	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090202_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

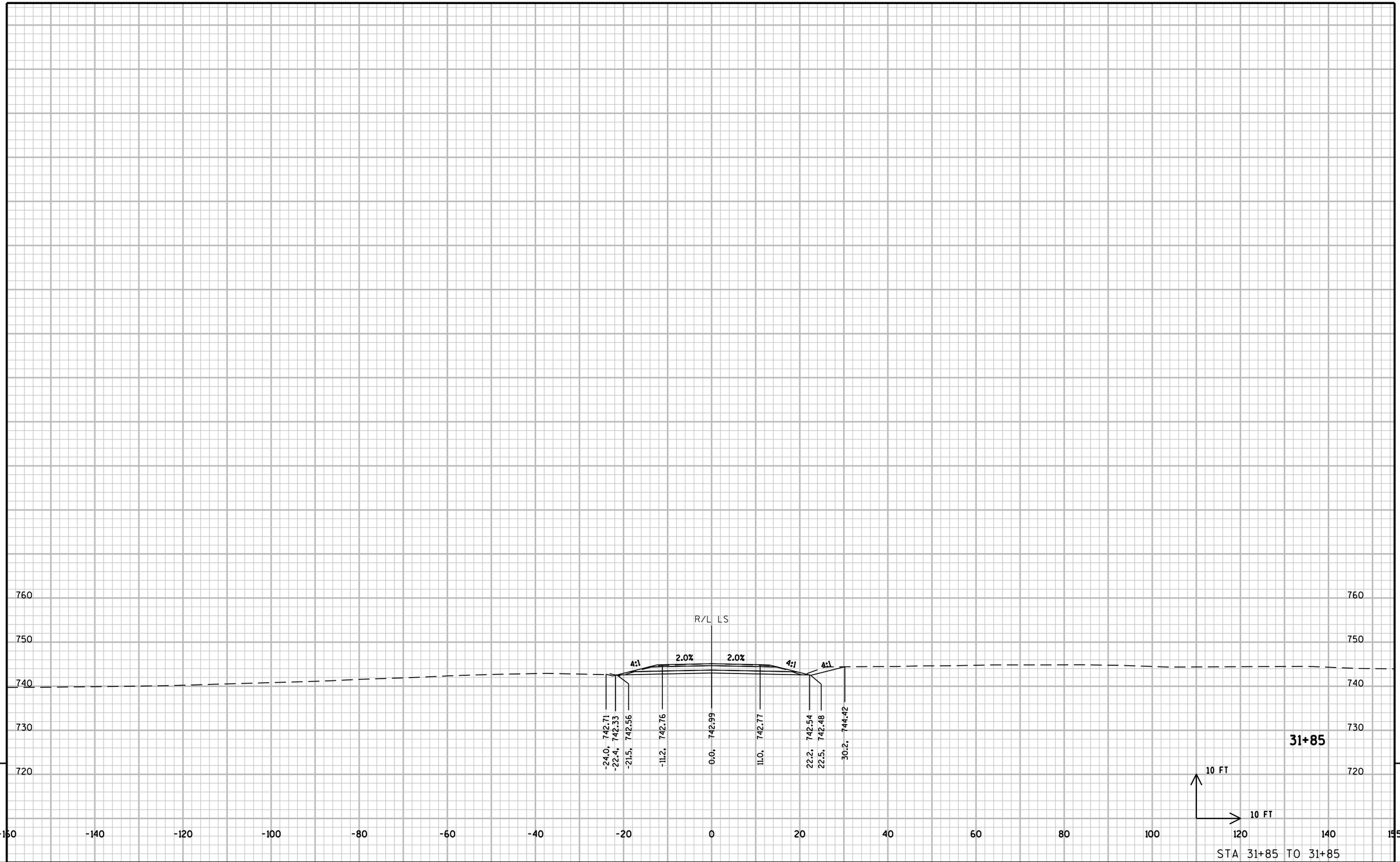


STA 31+00 TO 31+50

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090202_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

9

STA 31+85 TO 31+85

PROJECT NO: 2704-00-75	HWY: INTERNATIONAL DRIVE	COUNTY: RACINE	CROSS SECTIONS: LOUIS SORENSON	SHEET 339	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.2_27040005-International\t1\cds\090202_xs.dgn PLOT DATE : 5/1/2018 PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

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