GRE

MARCH 2019

PROJECT ID: 4657-25-01

WITH:

COUNTY: OUTAGAMIE

ORDER OF SHEETS

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

TOTAL SHEETS = 246

36

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

T GRAND CHUTE, W SPENCER ST

MAYFLOWER DR TO CASALOMA DR

LOCAL STREET

OUTAGAMIE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4657-25-01	WISC 2019196	1

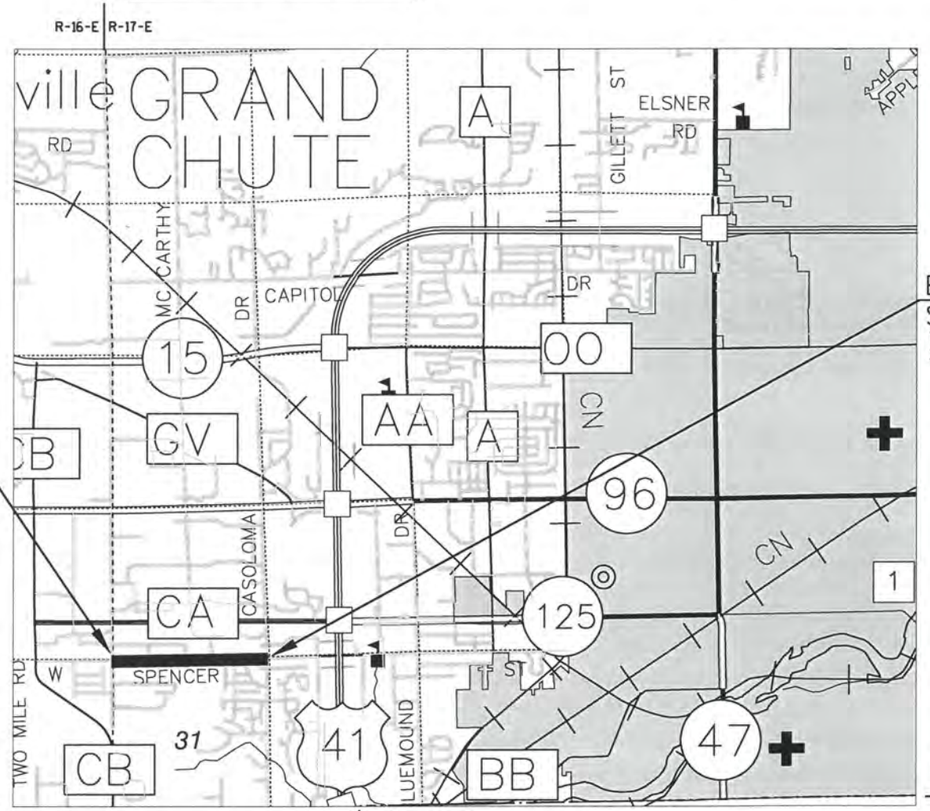
STATE PROJECT NUMBER
4657-25-01

DESIGN DESIGNATION

A.A.D.T.	(2019)	= 2,100
A.A.D.T.	(2039)	= 2,700
D.H.V.		= 390
D.D.		= 59/41
T.		= 3.3%
DESIGN SPEED		= 35 MPH
ESALS		= 180,000

BEGIN PROJECT
STA. 110+15.17
Y = 561125.75
X = 801105.81

END PROJECT
STA. 164+04.73
Y = 561125.75
X = 811882.50



LAYOUT
SCALE 0 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 1.021 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, OUTAGAMIE COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 WITH 2007 ADJUSTMENT (NAVD88(07)).

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 (SOO'E)
- 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 —
- OVERHEAD UTILITY — OH —
- FIBER OPTIC — FO —
- GAS — G —
- SANITARY SEWER — SAN —
- STORM SEWER — SS —
- TELEPHONE — T —
- WATER — W —
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ACCEPTED FOR
TOWN OF GRAND CHUTE
10-29-2018 (DATE) Katie Schoutz (SIGNATURE)
Director of Public Works (TITLE OF OFFICIAL)

ORIGINAL PLANS PREPARED BY
McMAHON ENGINEERS ARCHITECTS

WISCONSIN
MICHAEL R. SIMON
E-25860
APPLETON
WIS.
PROFESSIONAL ENGINEER

10-26-18 (DATE) (SIGNATURE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
SURVEYOR — McMAHON
DESIGNER — McMAHON
MANAGEMENT CONSULTANT — JT-ENGINEERING

APPROVED FOR THE DEPARTMENT
DATE: 12/13/18
MANAGEMENT CONSULTANT SIGNATURE

E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\01-TITLE\SPENCER-TITLE.DWG
LAYOUT NAME - SPENCER-TITLE - TITLE SHEET 1 IN EQ 1 MI

PLOT DATE : 10/19/2018 12:42 PM

PLOT BY : CHRIS CLEMENS

PLOT NAME :

WISDOT/CADDS SHEET 10

GENERAL NOTES:

BEARINGS AND COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE OUTAGAMIE COUNTY COORDINATE SYSTEM. DISTANCES SHOWN ARE GROUND DISTANCES.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 WITH 2007 ADJUSTMENT (NAVD88(07)).

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE AND ARE BASED ON UTILITY LOCATES OBTAINED FROM THE UTILITIES WHEN THE SURVEY DATA WAS COLLECTED PRIOR TO THE FINAL DESIGN OF THE PROJECT. IT IS ANTICIPATED THAT UTILITY FACILITIES WILL BE RELOCATED AS PART OF THIS PROJECT AS DESCRIBED IN THE SPECIAL PROVISIONS. PROPOSED RELOCATED UTILITIES ARE NOT SHOWN ON THE PLAN SHEETS. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT LIMITS THAT ARE NOT SHOWN ON THE PLAN SHEETS. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK.

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

THE LOCATION OF ALL EROSION CONTROL ITEMS IS APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD.

ALL RADII SHOWN ON THE PLAN SHEETS ARE TO THE FACE OF CURB.

THE ELEVATIONS SHOWN ON THE ROADWAY CROSS SECTIONS ARE SUBGRADE CL, SUBGRADE 2' BEHIND CURB, TOE OF SLOPE OF SUB-BASE AT SUBGRADE ELEVATION, SUBGRADE OF FRONT AND BACK OF SIDEWALK, FINISHED ELEVATIONS O/S BACK OF WALK, AND FINISHED SURFACE ELEVATIONS AT THE SLOPE INTERCEPTS.

THE EXACT LIMITS OF CONCRETE, ASPHALT, OR GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) AREAS ARE CALLED OUT AS UNDISTRIBUTED ON THE PLAN QUANTITIES FOR COMMON EXCAVATION. THESE AREAS ARE TO BE BACKFILLED WITH BASE AGGREGATE DENSE 3- INCH. EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

THE REMOVAL OF CONCRETE DRIVEWAYS WILL BE MEASURED AND PAID FOR AS REMOVING PAVEMENT. THE REMOVAL OF ASPHALTIC DRIVEWAY APRONS AND ASPHALTIC DRIVEWAYS BEHIND THE SIDEWALK WILL BE PAID FOR AS COMMON EXCAVATION.

PROPOSED CONCRETE SIDEWALK THROUGH DRIVEWAYS SHALL BE PAID FOR AS CONCRETE DRIVEWAY (SEE CONCRETE DRIVEWAY DETAIL).

ASPHALT DRIVEWAYS SHALL CONSIST OF 3 1/2 INCHES ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, INSTALLED IN TWO (2) LIFTS. 1 3/4 -INCH UPPER AND LOWER LAYER OVER 9-INCHES BASE AGGREGATE DENSE 1 1/4 INCH.

CONCRETE DRIVEWAYS SHALL CONSIST OF CONCRETE DRIVEWAY 6-INCH OR 7-INCH OVER 6" OF BASE AGGREGATE DENSE 1 1/4-INCH.

ALL DISTURBED AREAS NOT OTHERWISE SURFACED SHALL BE RESTORED WITH TOPSOIL, FERTILIZER, SEED AND EMAT. SEE EROSION CONTROL DETAIL.

FILL AS SHOWN ON THE PLAN PERTAINS TO EMBANKMENT CONSTRUCTED FROM COMMON EXCAVATION. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPLETE THE VOLUME OF MATERIAL REQUIRED IS 30% FOR COMMON EXCAVATION.

REMOVE ANY REINFORCEMENT AND MESH FOUND IN THE EXISTING CONCRETE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE ITEM OF REMOVING PAVEMENT.

THE LIMITS OF PAVEMENT REMOVAL ON SIDE STREETS AND MATCH POINTS IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.

REMOVAL AND DISPOSAL OF CONCRETE, ENDWALL MASONRY, STONE, BRICK AND BLOCKS USED AS HEADWALLS ON EXISTING DRIVEWAY CULVERTS SHALL BE CONSIDERED INCIDENTAL TO REMOVING SMALL PIPE CULVERTS REFER TO SPECIAL PROVISIONS.

DURING DESIGN PHASE OF PROJECT, MULTIPLE EXPLORATORY BORINGS WERE PREFORMED THROUGHOUT THE PROJECT LIMITS. APPROXIMATE DEPTH TO EXISTING ROCK AT THESE BORING LOCATIONS IS SHOWN ON THE MAINLINE STORM SEWER DETAILS.

THERE ARE LOCATIONS ON THE PROJECT WITH REDUCED SUBGRADE COVER (LESS THAN 2 FEET) OVER THE STORM SEWER TO BE INSTALLED UNDER THIS CONTRACT. CONTRACTOR TO TAKE PRECAUTIONARY MEASURES TO PREVENT DAMAGE TO THE STORM SEWER ON THIS PROJECT.

STANDARD ABBREVIATIONS AND SYMBOLS

ADJ.	ADJUST
ASPH	ASPHALT
AVE.	AVENUE
⌖	BENCH MARK
B-B	BACK TO BACK OF CURB
B.A.D.	BASE AGGREGATE DENSE
B.O.C. or B/C	BACK OF CURB
℄ or CL	CENTERLINE
CONC.	CONCRETE
CL.	CLASS
C.O.	CLEAN OUT
CPP	CORRUGATED PLASTIC PIPE
△	DELTA
D.	DEGREE OF CURVE
D.W.	DRIVEWAY
E.	EAST
EB	EASTBOUND
E-MAT	EROSION MAT
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EOR	END OF RADIUS
EXIST.	EXISTING
F-F	FACE TO FACE OF CURB
FL	FLOWLINE
F.M.	FORCE MAIN
GRAV	GRAVEL
GV	GAS VALVE
HDPE	HIGH DENSITY POLYETHYLENE CULVERT PIPE
HE	HIGHWAY EASEMENT
HMA	HMA
H.P.	HIGH POINT
HYD.	HYDRANT
L.	LENGTH OF CURVE
L.V.C.	LENGTH OF VERTICAL CURVE
L.S.	LANDSCAPING
LT.	LEFT
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
NB	NORTH BOUND
NO.	NUMBER
NOR.	NORMAL
P.E.	PRIVATE ENTRANCE
P.G.L.	PROFILE GRADE LINE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.V.C.	POINT OF VERTICAL CURVATURE
P.V.I.	POINT OF VERTICAL INTERSECTION
P.V.T.	POINT OF VERTICAL TANGENCY
P/L	PROPERTY LINE
PVT.	PAVEMENT
PED.	PEDESTAL
R or RAD	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
RECONST.	RECONSTRUCT
REQ'D	REQUIRED
R/L	REFERENCE LINE
REM.	REMOVE
R/W	RIGHT OF WAY
RD.	ROAD
RT.	RIGHT
S.	SOUTH
SAN	SANITARY SEWER
SB	SOUTH BOUND
S.D.D.	STANDARD DETAIL DRAWING
S.I.	SLOPE INTERCEPT
SS	STORM SEWER
STA.	STATION
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
SW	CONCRETE SIDEWALK
T.I.	TEMPORARY INTEREST
TLE	TEMPORARY LIMITED INTEREST
TYP.	TYPICAL
V.C.	VERTICAL CURVE
WB	WESTBOUND
W	WATERMAIN
WV	WATER VALVE/SHUTOFF
	HYDRANT W/AUXILIARY VALVE
	LIGHT POLE
●	EXISTING PROPERTY IRON

ORDER OF SECTION 2 SHEETS:

- GENERAL NOTES, UTILITIES, ABBREVIATIONS
- PROJECT OVERVIEW AND ALIGNMENT
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- INTERSECTION DETAILS
- EROSION CONTROL
- STORM SEWER
- SIGNING AND PAVEMENT MARKING
- TRAFFIC CONTROL

2

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

LAND USE:	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .26	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .80											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 9.49 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 11.06 ACRES

UTILITIES:

AT&T
JOE KASSAB
205 SOUTH JEFFERSON STREET
GREEN BAY, WI 54301
920-423-4202
JK572K@ATT.COM

ATC
MIKE OLSON
801 O'KEEFE ROAD
P.O. BOX 6113
DE PERE, WI 54115-6113
920-338-6582
920-660-2390 (CELL)
MOLSON@ATCLLC.COM

APPLETON AREA SCHOOL
DISTRICT- COMMUNICATIONS
(AAMFON)
JOE SARGENT
122 E. COLLEGE AVENUE, SUITE 1A
APPLETON, WI 54911
920-832-6151
SARGENTJOSEPH@AASD.K12.WI.US

CHARTER COMMUNICATIONS
VINCE ALBIN
3520 DESTINATION DRIVE
APPLETON, WI 54915
920-831-9249
VINCE.ALBIN@CHARTER.COM

CENTURYLINK
KEVIN ZICKERT
224 INDUSTRIAL DRIVE
NORTH PRAIRIE, WI 53153
262-392-5200
KEVIN.ZICKERT@CENTURYLINK.COM

MI-TECH (FOR NETLEC)
DENNIS LAFAVE
1700 INDUSTRIAL DRIVE
GREEN BAY, WI 54302
920-619-9774
DLAFAVE@MI-TECH.US

TDS METROCOM
STEVE JAKUBIEC
SUITE 218A
10 COLLEGE AVENUE
APPLETON, WI 54911
920-882-4166
STEVE.JAKUBIEC@TDSTELECOM.COM

TOWN OF GRAND CHUTE
SANITARY DISTRICT
SUPERINTENDENT
TODD PRAHL
1900 GRAND CHUTE BOULEVARD
GRAND CHUTE, WI 54913-9613
920-832-1581
TODD.PRAHL@GRANDCHUTE.NET

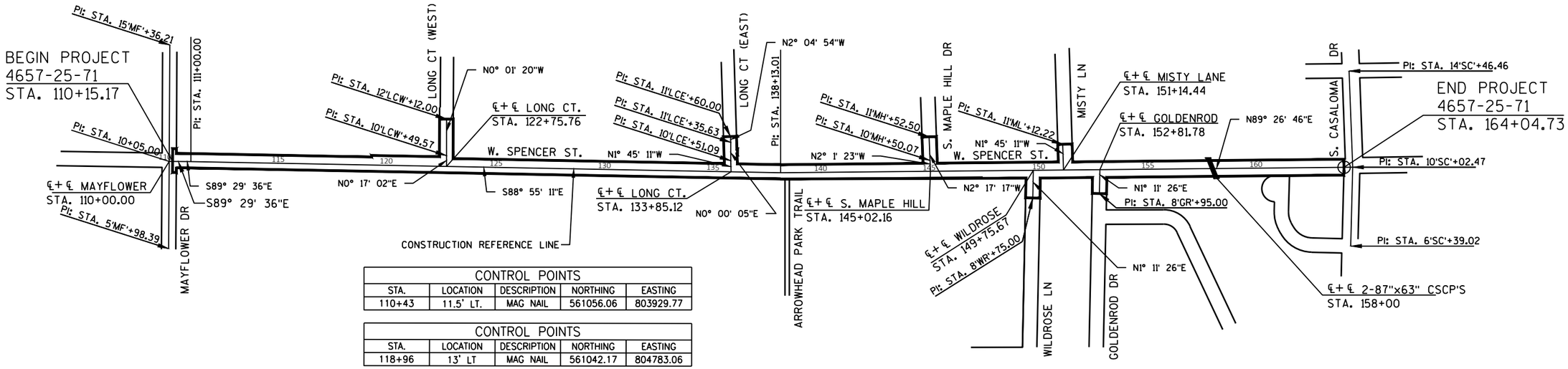
WE ENERGIES
ZACH DUGA (ELECTRIC)
HEATHER DEUTH (GAS)
P.O. BOX 1699
APPLETON, WI 54912-1699
920-380-3458 (ELECTRIC)
920-242-5633 (GAS)
ZACHARY.DUGA@WE-ENERGIES.COM
HEATHER.DEUTH@WE-ENERGIES.COM

WISCONSIN INDEPENDENT
NETWORK, LLC
DICK HAMMETTER
SUTIE 219
800 WISCONSIN AVENUE
EAU CLAIRE, WI 54703
715-838-4406
HAMMETTER@WINS.NET

DNR LIAISON:

DEPARTMENT OF NATURAL RESOURCES
MATT SCHAEVE
2984 SHAWANO AVE
GREEN BAY, WI 54313
920-662-5130
MATTHEW.SCHAEVE@WISCONSIN.GOV

2



CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
110+43	11.5' LT.	MAG NAIL	561056.06	803929.77

CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
118+96	13' LT	MAG NAIL	561042.17	804783.06

CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
122+76	10' RT.	MAG NAIL	561011.84	805162.49

CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
135+98	21' LT.	MAG NAIL	561018.69	806484.56

CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
144+88	18' LT.	MAG NAIL	561017.49	807373.77

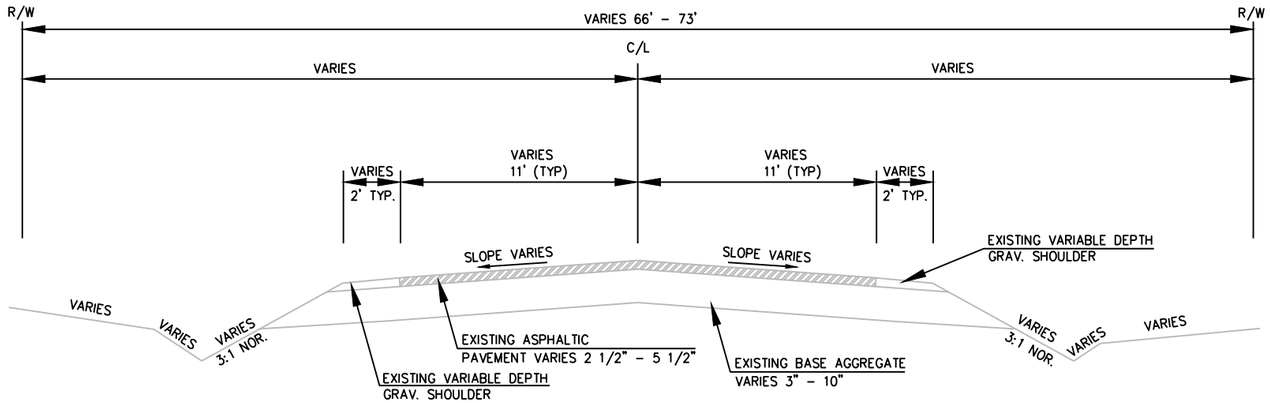
CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
148+81	7' RT.	MAG NAIL	560996.29	807767.16

CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
156+84	14' LT.	MAG NAIL	561025.27	808569.65

CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
164+45	4' LT.	MAG NAIL	561022.43	809330.99

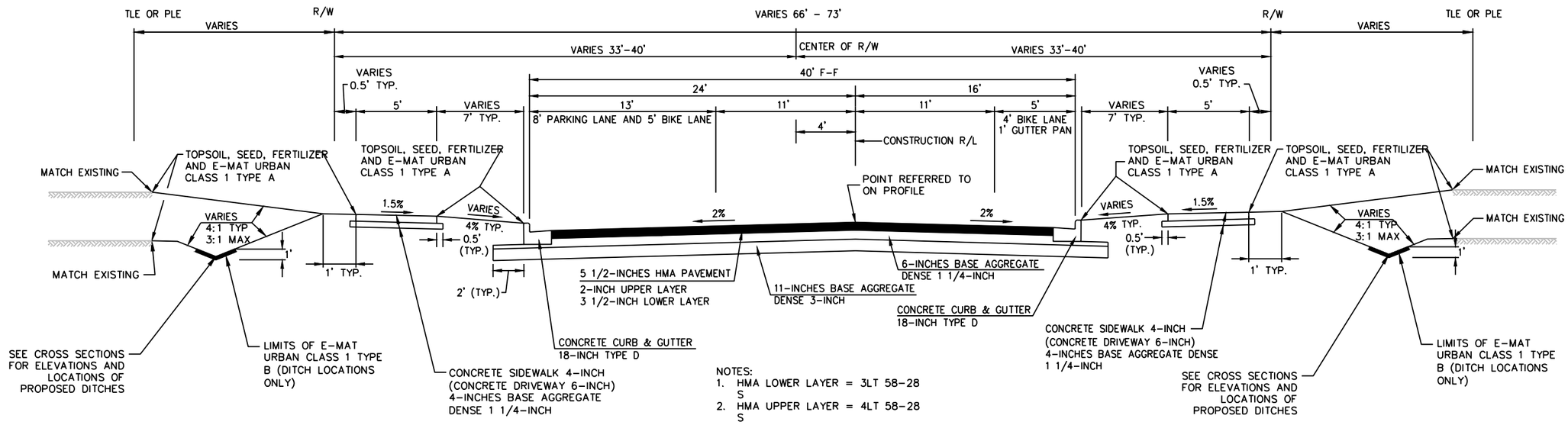
REFER TO PAVEMENT DETAILS
FOR ADDITIONAL INFORMATION

PROJECT NO: 4657-25-01	HWY: W. SPENCER STREET	COUNTY: OUTAGAMIE	PROJECT OVERVIEW AND ALIGNMENT	SHEET 4	E



EXISTING TYPICAL CROSS SECTION FOR W SPENCER STREET

STATION 110+15.17 – STATION 164+04.73



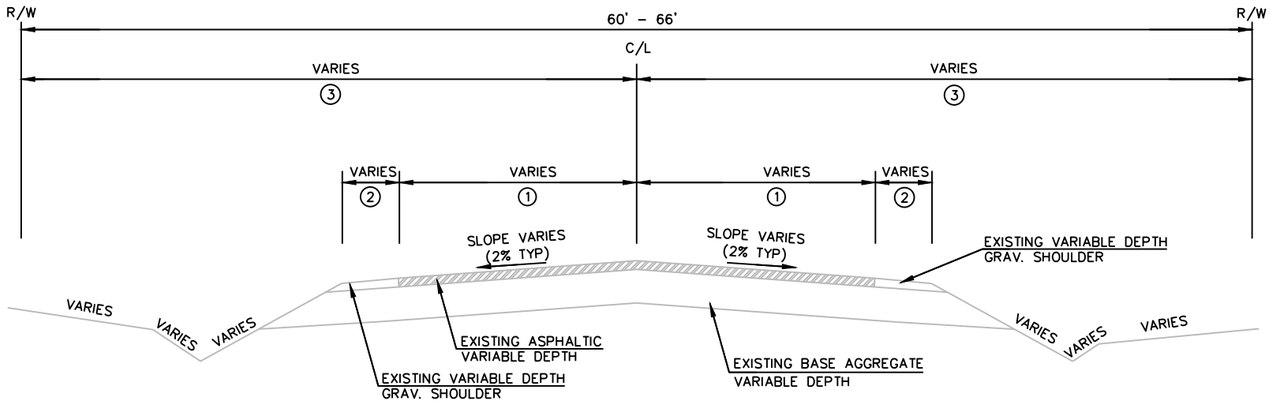
NOTES:
1. HMA LOWER LAYER = 3LT 58-28 S
2. HMA UPPER LAYER = 4LT 58-28 S

PROPOSED TYPICAL CROSS SECTION FOR W SPENCER STREET

STA. 110+15.17 – STA. 164+04.73

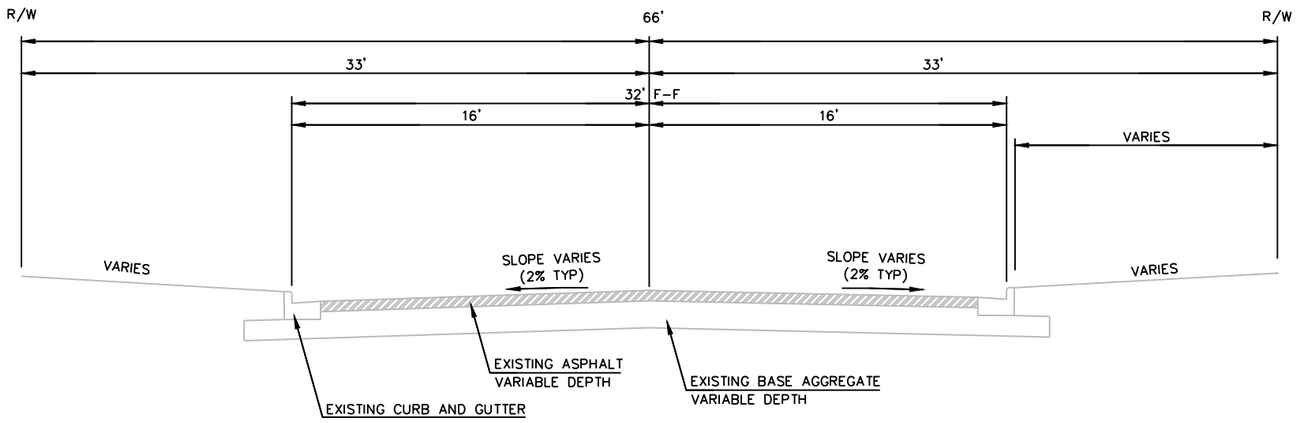
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 5	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER TYPICALS.DWG
LAYOUT NAME - Plan 1 IN 10 FT
PLOT DATE : 12/21/2018 9:05 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:2 FT
WISDOT/CADDS SHEET 42



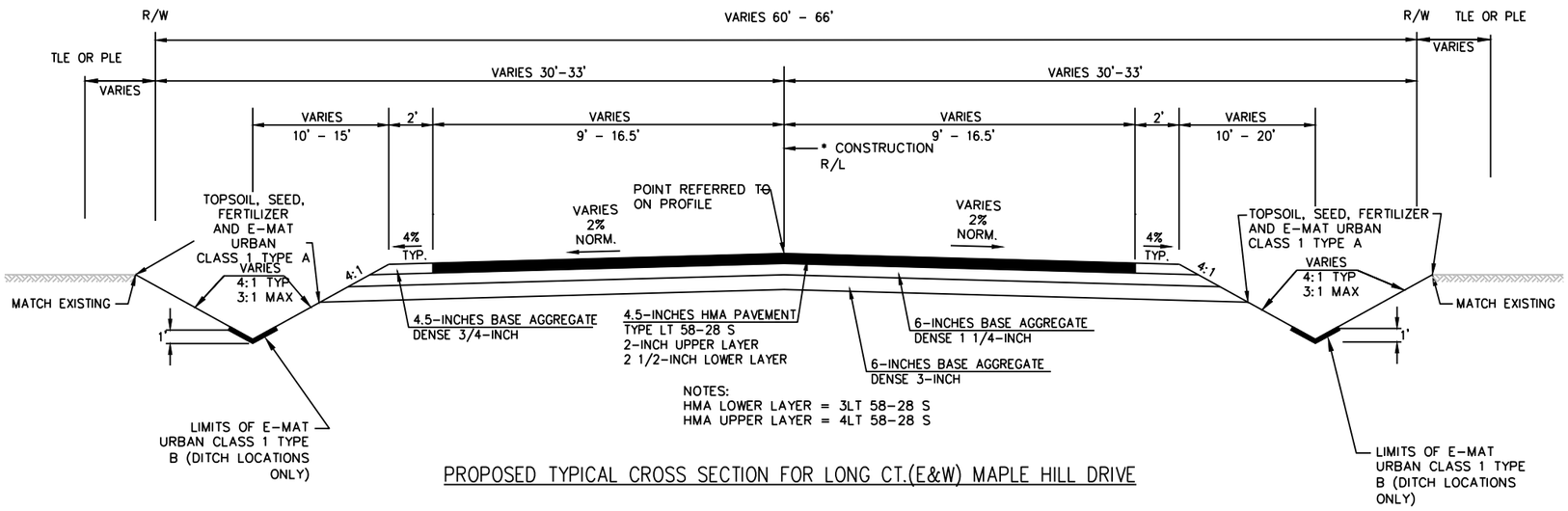
EXISTING TYPICAL CROSS SECTION FOR LONG CT. EAST & WEST, MAPLE HILL DRIVE, & MISTY LANE

STREET TABLE			
	①	②	③
STREET	WIDTH IN FEET	WIDTH IN FEET	WIDTH IN FEET
LONG CT (W)	11	1	30'LT, 33'RT
LONG CT (E)	10	3	30
MAPLE HILL	10	2	33
MISTY LANE	9	0	23'LT, 43' RT



EXISTING TYPICAL CROSS SECTION FOR WILD ROSE LANE AND GOLDENROD DRIVE

2

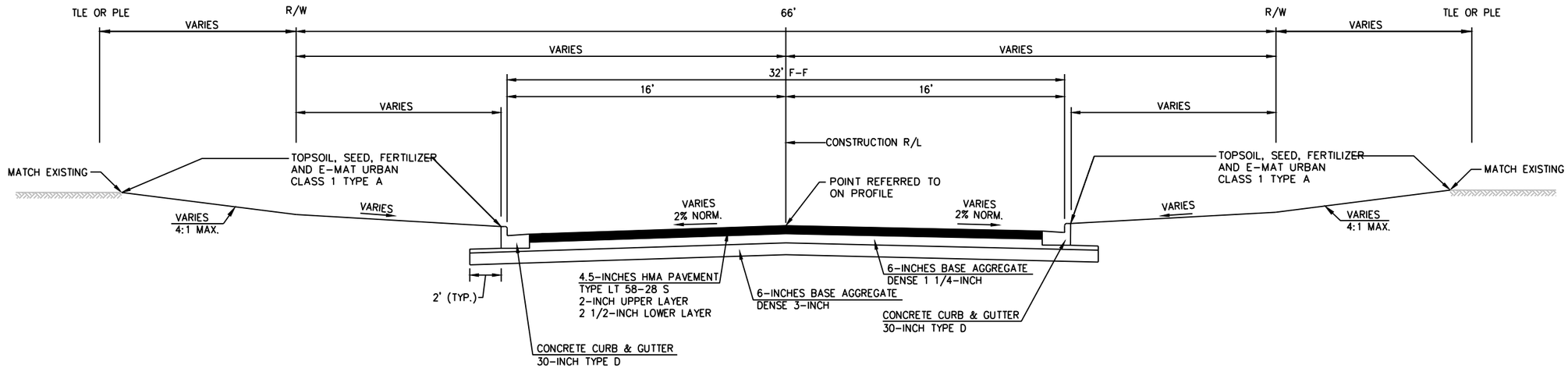


NOTES:
HMA LOWER LAYER = 3LT 58-28 S
HMA UPPER LAYER = 4LT 58-28 S

PROPOSED TYPICAL CROSS SECTION FOR LONG CT.(E&W) MAPLE HILL DRIVE

- LONG CT (W): STA. 10+00 TO STA. 12+12
- LONG CT (E): STA. 10+00TO STA. 11+60
- MAPLE HILL DR: STA. 10+00 TO STA. 11+52.50

SEE EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL INFORMATION



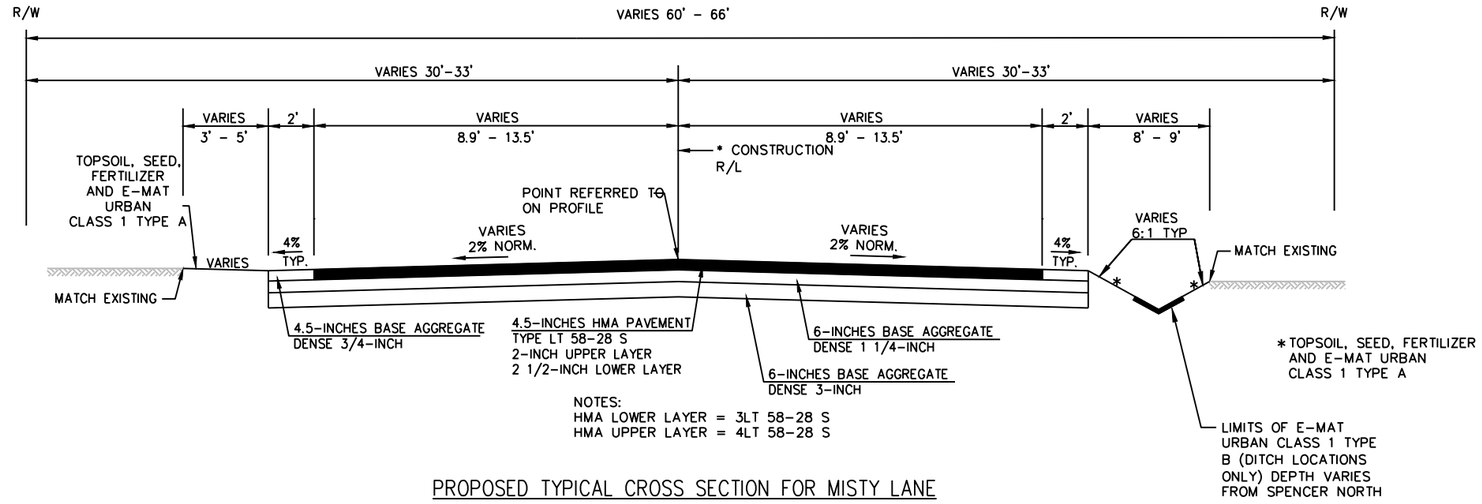
NOTES:
HMA LOWER LAYER = 3LT 58-28 S
HMA UPPER LAYER = 4LT 58-28 S

PROPOSED TYPICAL CROSS SECTION FOR WILDROSE LANE AND GOLDENROD DRIVE

- WILD ROSE LANE: STA. 8+74.99 TO STA. 10+00

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN: PROPOSED TYPICAL SECTIONS	SHEET 7	E

2

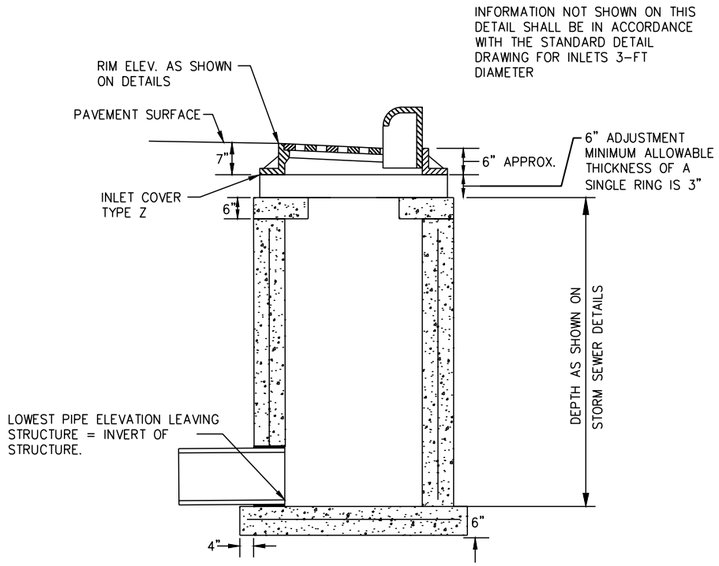


NOTES:
HMA LOWER LAYER = 3LT 58-28 S
HMA UPPER LAYER = 4LT 58-28 S

SEE EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL INFORMATION

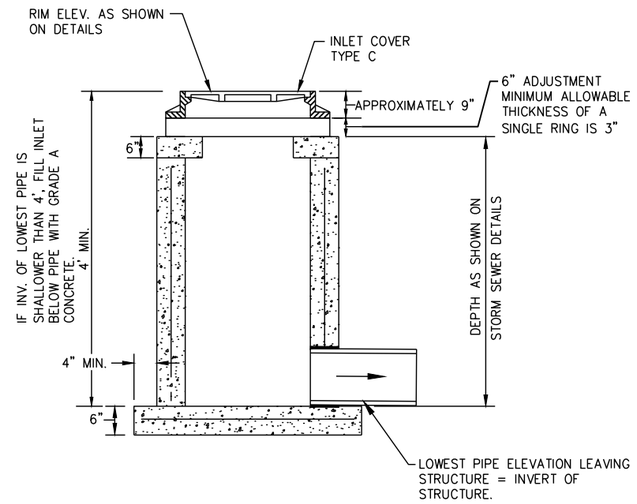
PROPOSED TYPICAL CROSS SECTION FOR MISTY LANE

- MISTY LANE: STA. 10+00 TO STA. 11+12.22



DETAIL FOR CALCULATING INLET ELEVATIONS 3-FT DIA. INLETS WITH INLET COVER TYPE Z

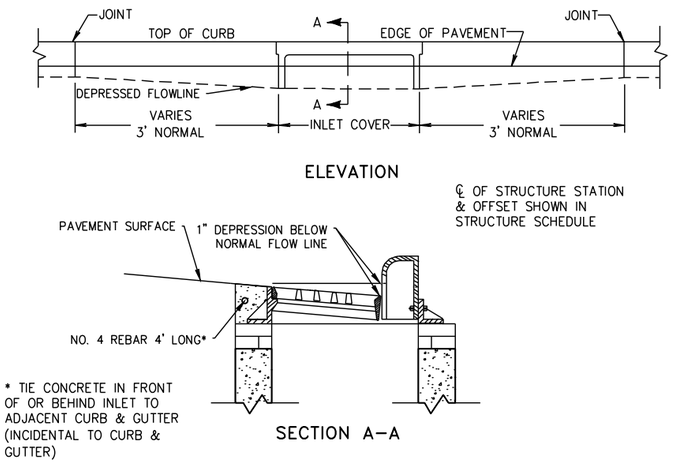
STRUCTURE DEPTH = RIM ELEVATION - BASE ELEVATION - CASTING HEIGHT - ADJUSTMENT. CASTING HEIGHT = 9" FOR TYPE C AND J COVERS AND 7" FOR TYPE Z COVERS. ADJUSTMENT = 6" TYPICAL UNLESS NOTED OTHERWISE.



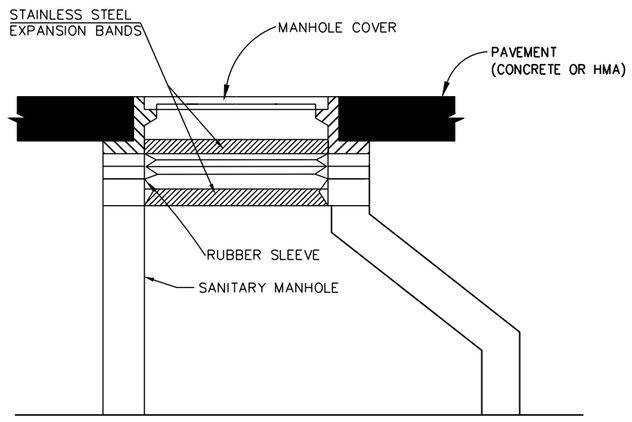
DETAIL FOR CALCULATING INLET ELEVATIONS INLETS 3-FT DIA. WITH INLET COVER TYPE C

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL DRAWING FOR INLET 3-FT DIA.

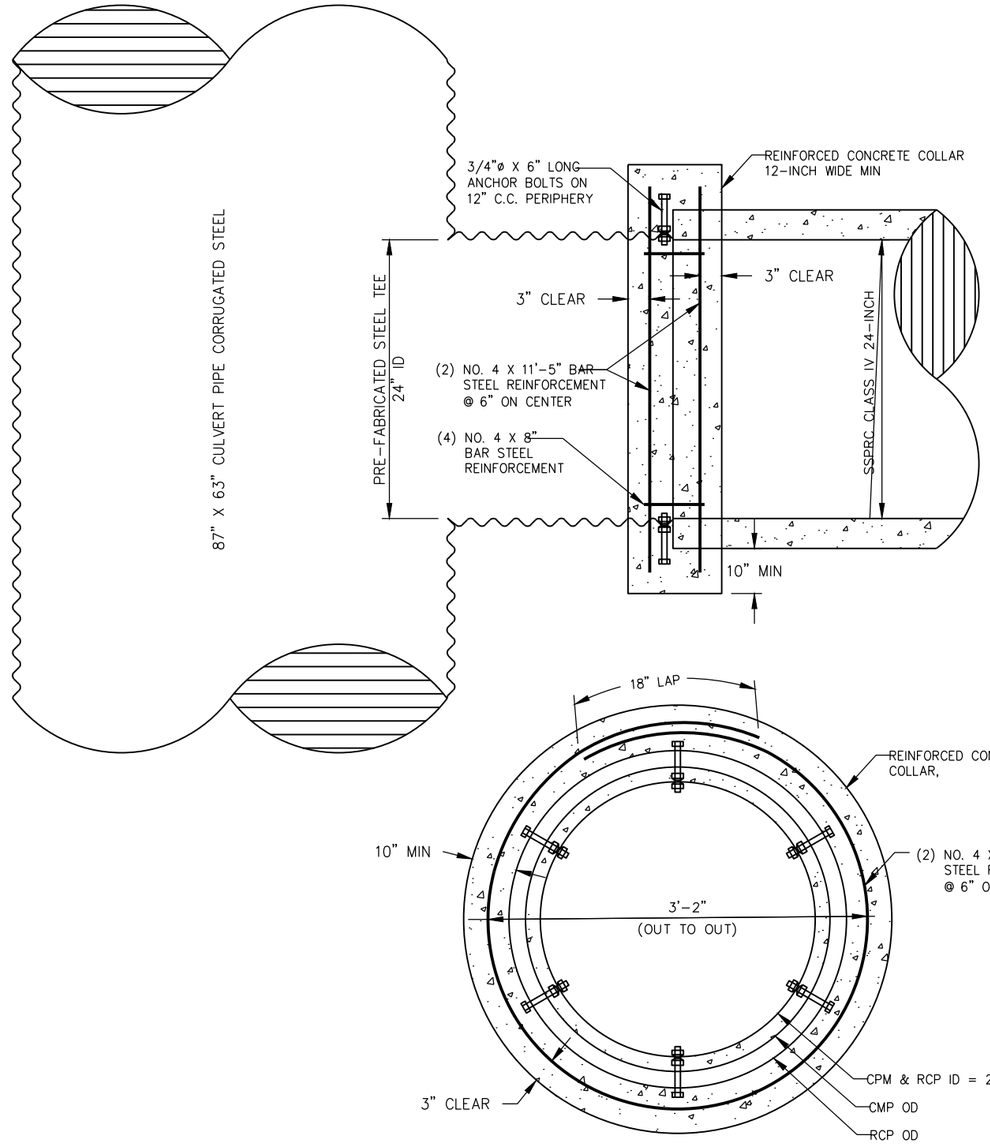
STRUCTURE DEPTH = RIM ELEVATION - BASE ELEVATION - CASTING HEIGHT - ADJUSTMENT. CASTING HEIGHT = 9" FOR TYPE C AND J COVERS AND 7" FOR TYPE Z COVERS. ADJUSTMENT = 6" TYPICAL UNLESS NOTED OTHERWISE.



DETAIL OF CURB AND GUTTER AT INLETS

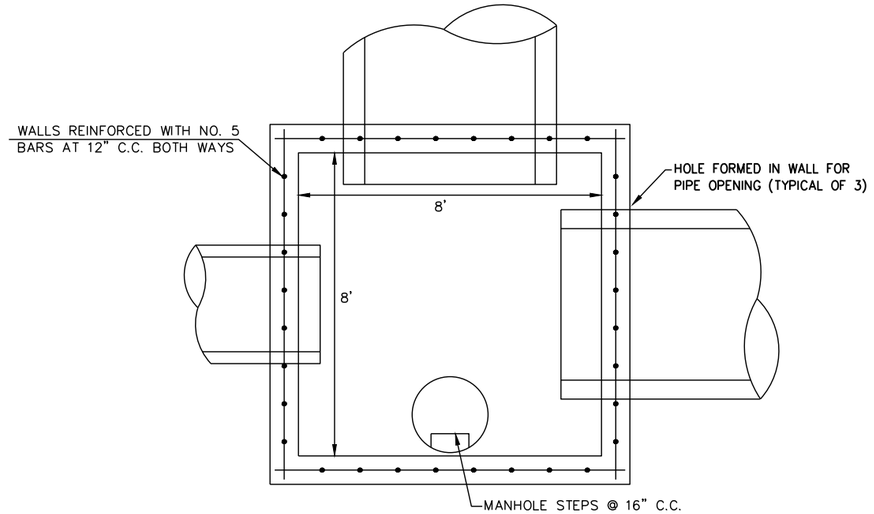


INTERNAL RUBBER CHIMNEY SEAL DETAIL FOR SANITARY MANHOLE RECONSTRUCTS

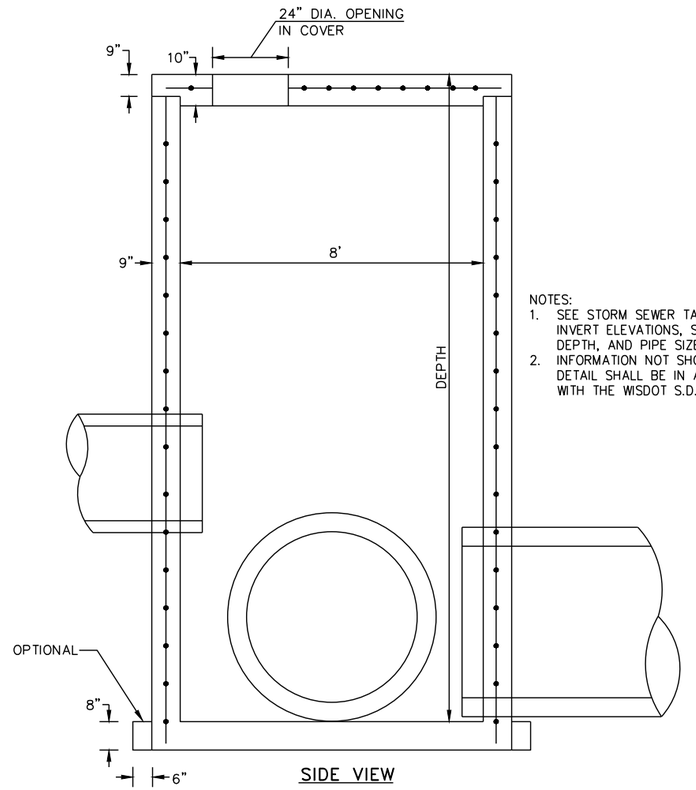


CONCRETE COLLARS FOR PIPE

CMP TO RCP
WITH CONCRETE COLLAR
MH35 TO 87"X63" CULVERT PIPE
MH36 TO 87"X63" CULVERT PIPE

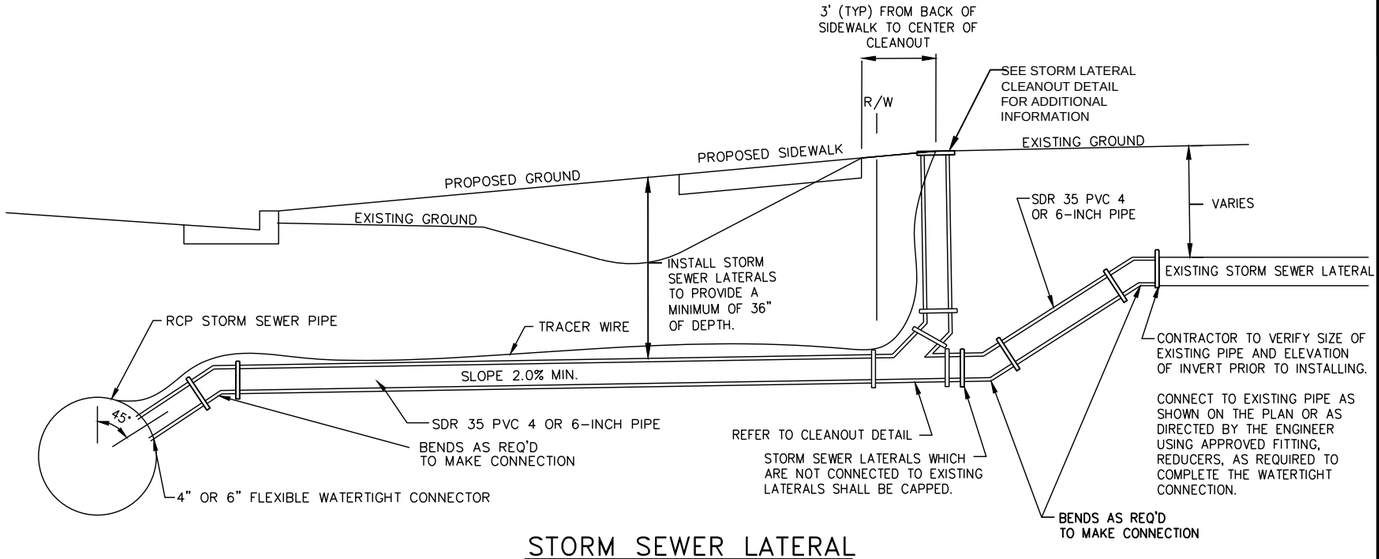


TOP VIEW



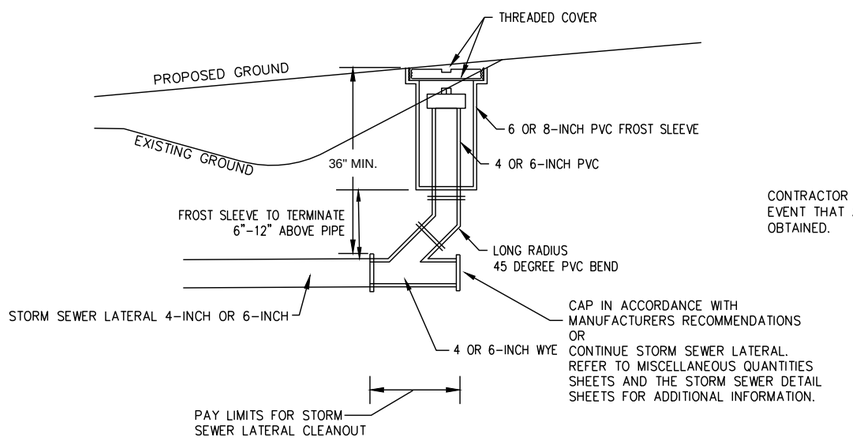
SIDE VIEW

MANHOLE 8FT X 8FT



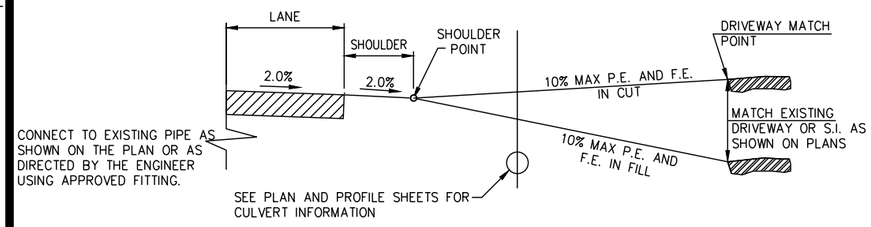
STORM SEWER LATERAL

THE CONTRACTOR SHALL INSTALL STORM LATERALS TO AVOID CONFLICTS WITH OTHER UTILITIES. THIS IS TO BE ACCOMPLISHED BY HAVING A RISER AT THE STORM MAIN, IF NECESSARY. MINIMUM OF A 2% SLOPE TO BE MAINTAINED ON LATERAL.

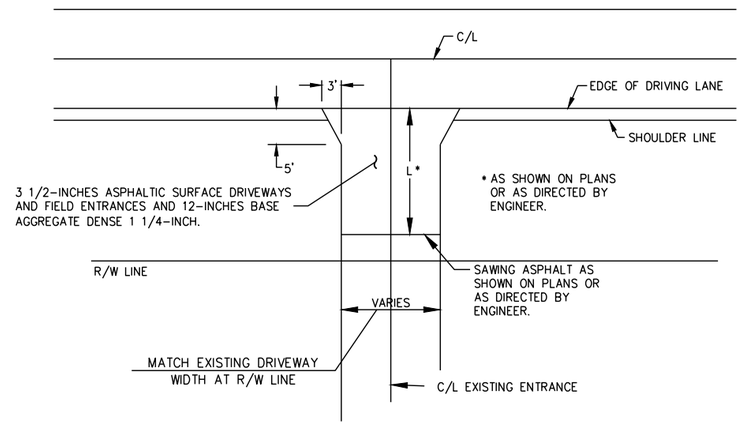


CONTRACTOR TO NOTIFY ENGINEER IN THE EVENT THAT A MIN 36" DEPTH CANNOT BE OBTAINED.

STORM LATERAL CLEANOUT DETAIL

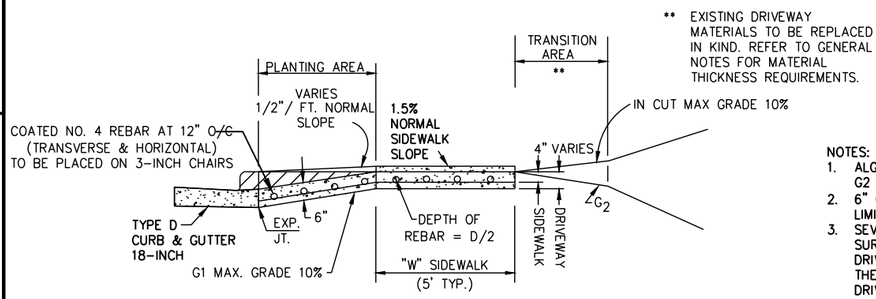


PROFILE VIEW



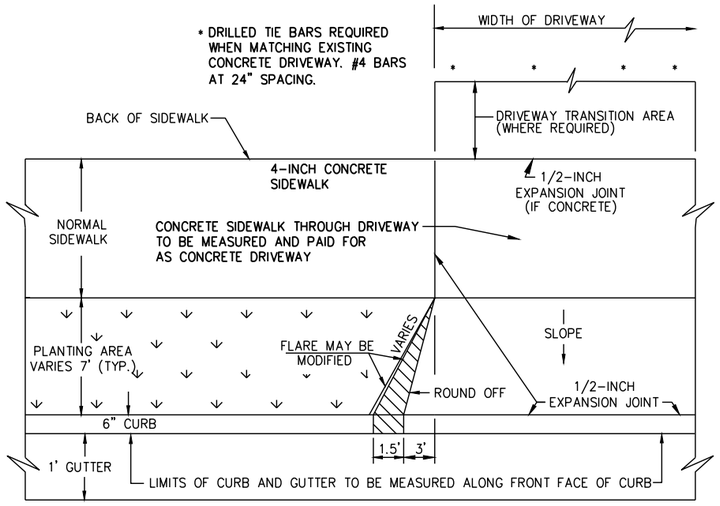
PLAN VIEW

SIDE STREET RURAL ENTRANCE DETAIL



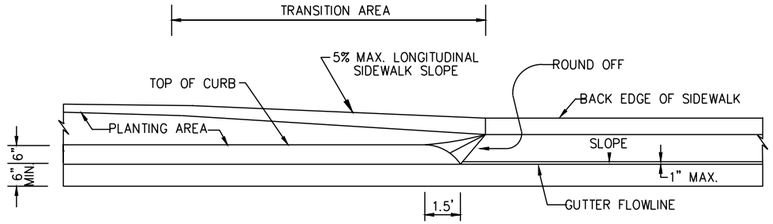
NOTES:
1. ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 AND G2 EXTENDED IN FILLS MAX. 15%.
2. 6" OF BASE AGGREGATE DENSE 1 1/4-INCH REQUIRED BELOW LIMITS OF CONCRETE DRIVEWAY.
3. SEVERAL EXISTING DRIVEWAYS CONSIST OF ASPHALTIC SURFACE NEAR THE ROADWAY AND THEN CONCRETE DRIVEWAY BEYOND THAT. IF THE MATCH POINT IS WITHIN THE CONCRETE DRIVEWAY LIMITS, REPLACE THE ENTIRE DRIVEWAY WITH CONCRETE.
4. REFER TO CROSS SECTIONS FOR PROPOSED DRIVEWAY SLOPES.

PROFILE PARALLEL TO C/L OF DRIVEWAY

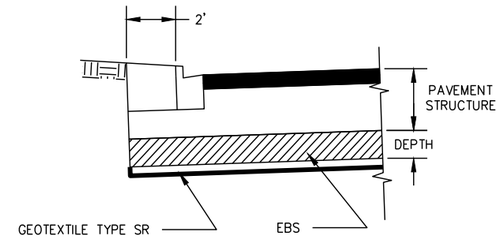


PLAN

CONCRETE DRIVEWAY DETAIL



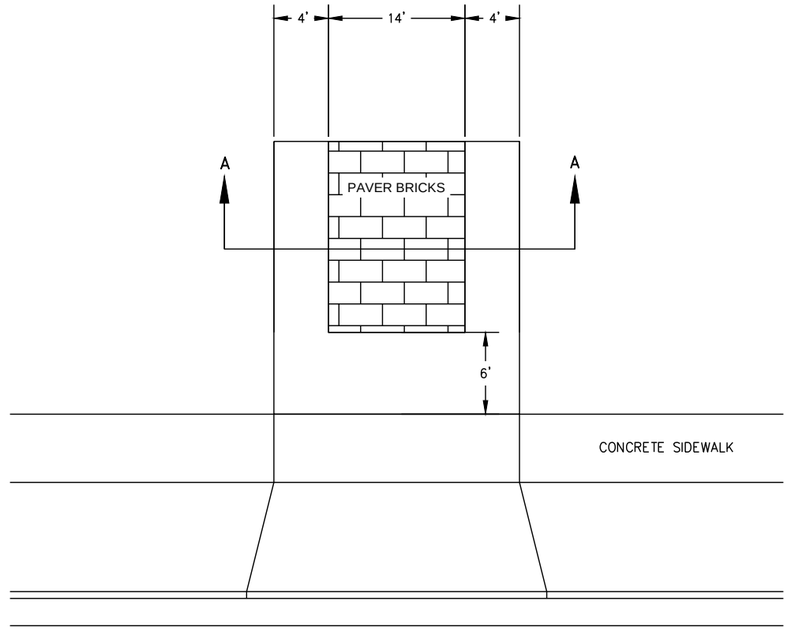
PROFILE PARALLEL TO CENTERLINE OF ROADWAY



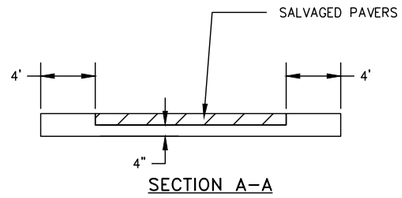
NOTES:
1. USE AS DIRECTED BY ENGINEER FOR AREAS OF UNSTABLE SUBGRADE.
2. EBS SHALL BE PAID FOR AS EXCAVATION COMMON.
3. FILL VOID WITH BASE AGGREGATE DENSE 3-INCH.
4. AN UNDISTRIBUTED QUANTITY OF GEOTEXTILE TYPE SR IS INCLUDED IN THE CONTRACT FOR USE AS DIRECTED BY ENGINEER FOR AREAS OF UNSTABLE SUBGRADE WHERE FACTORS ARE PRESENT THAT LIMIT THE DEPTH OF EBS.

EXCAVATION BELOW SUBGRADE (EBS)

2



STA. 121+69 RT

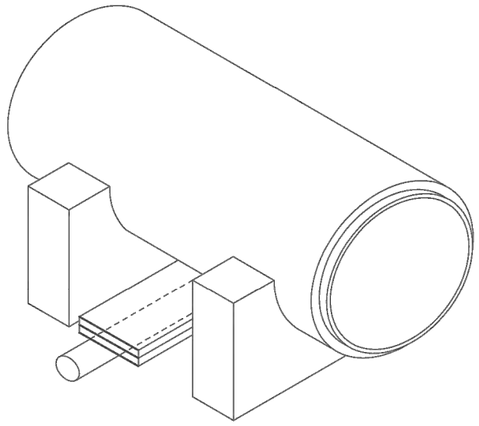


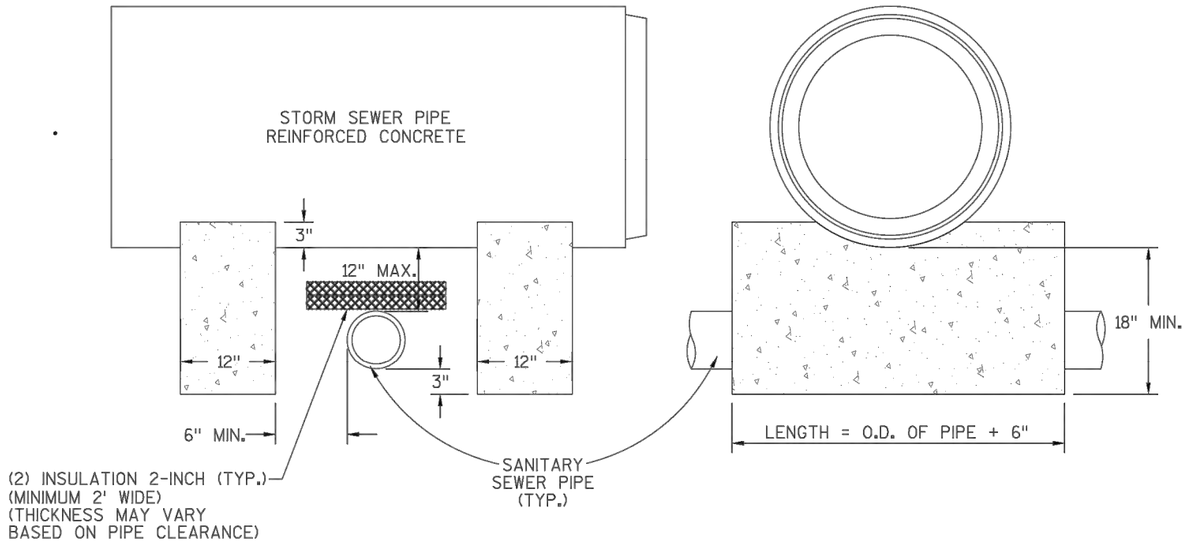
SECTION A-A

SALVAGE AND RESET DRIVEWAY PAVER BRICKS

NOTES:
1. REFER TO CONCRETE DRIVEWAY DETAIL FOR INFORMATION NOT SHOWN ON THIS DETAIL.
2. THE INTENT IS TO MATCH THE EXISTING DRIVEWAY DIMENSIONS AND BRICK PAVER PATTERN. CONTRACTOR TO VERIFY EXISTING DIMENSIONS OF PAVERS AND CONCRETE PRIOR TO REMOVING THE EXISTING DRIVEWAY.
3. CONTRACTOR TO PROVIDE JOINTING DETAIL TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTING CONCRETE.
4. CONCRETE AREAS WILL BE PAID FOR AS CONCRETE DRIVEWAY 6-INCH. THERE WILL BE NO DEDUCTION FOR THE AREA COVERED BY PAVER BRICKS.

2



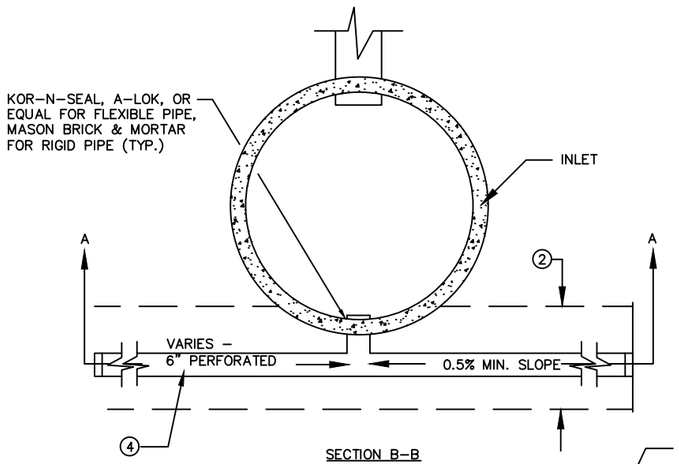


NOTE:
1. FIELD POURED, CONCRETE PIPE SUPPORT SHALL BE INSTALLED FOR STORM SEWERS WHEN CLEARANCE BETWEEN BOTTOM OF PIPE AND TOP OF SANITARY SEWER PIPE IS 12-INCHES OR LESS.

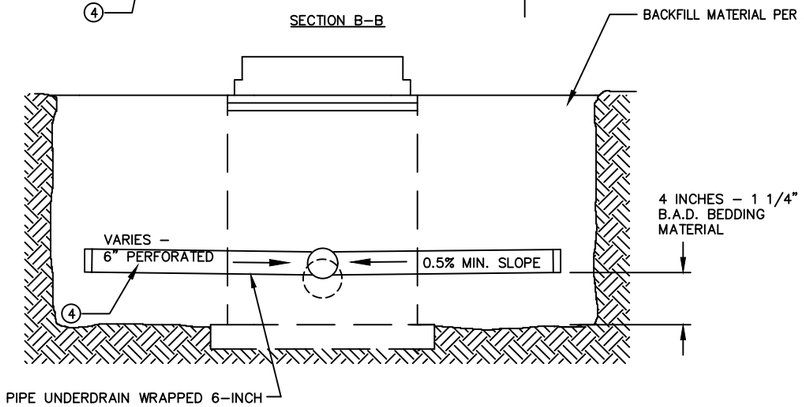
CONCRETE PIPE SUPPORT DETAIL
SCALE: NONE

GENERAL NOTES:
1. INLET LOCATIONS AS SHOWN ON THE PLAN WILL BE CONSTRUCTED WITH PIPE UNDERDRAIN WRAPPED 6–INCH ATTACHED, AS SHOWN.–SEE MQ TABLE FOR PIPE UNDERDRAIN 6–INCH FOR LOCATIONS
2. TRENCH WIDTH TO BE IN ACCORDANCE WITH SECTION 612 OF THE STANDARD SPECIFICATIONS
3. UNDERDRAIN INVERT TO BE AT SAME ELEVATION OF SPRINGLINE OF OUTGOING PIPE
4. 50 LF AT LOW POINTS, 25 LF ON EACH SIDE OF INLET. 25 LF UPSTREAM SIDE OF INLET ONLY AT FLOW THROUGH INLET LOCATIONS

* INCIDENTAL TO STRUCTURE ITEM



SECTION B–B



*ALL TEES TO BE MANUFACTURED OR CORE DRILLED
NOTE: CAP ALL UNDER DRAIN AND STUBS

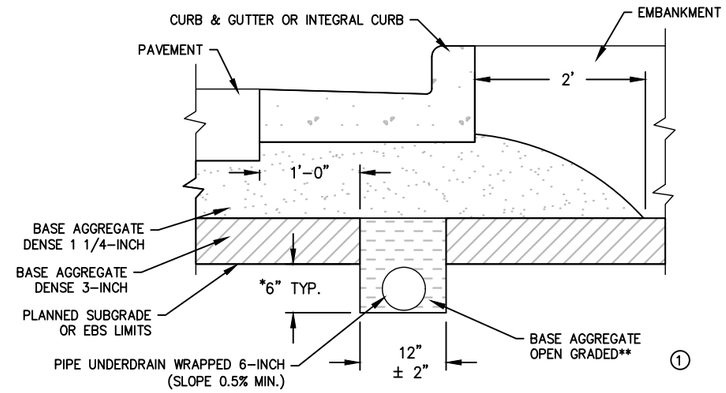
SECTION A–A

STUB DRAINS AT INLETS

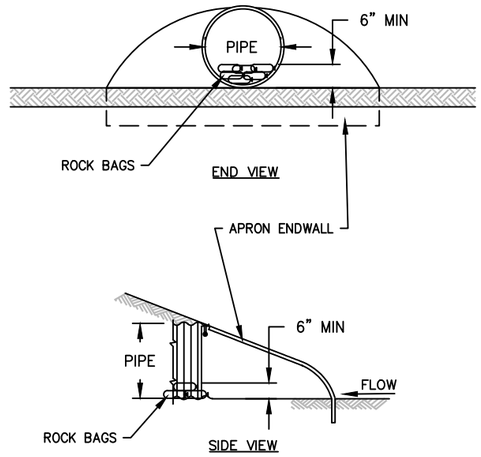
GENERAL NOTES:
THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

* 6" TYPICAL, VARY DEPTH IN EBS AREAS TO MAINTAIN UNDERDRAIN INVERT AT SAME ELEVATION OF SPRINGLINE OF OUTGOING PIPE.

** TO BE INCIDENTAL TO PIPE UNDERDRAIN WRAPPED 6–INCH ITEM



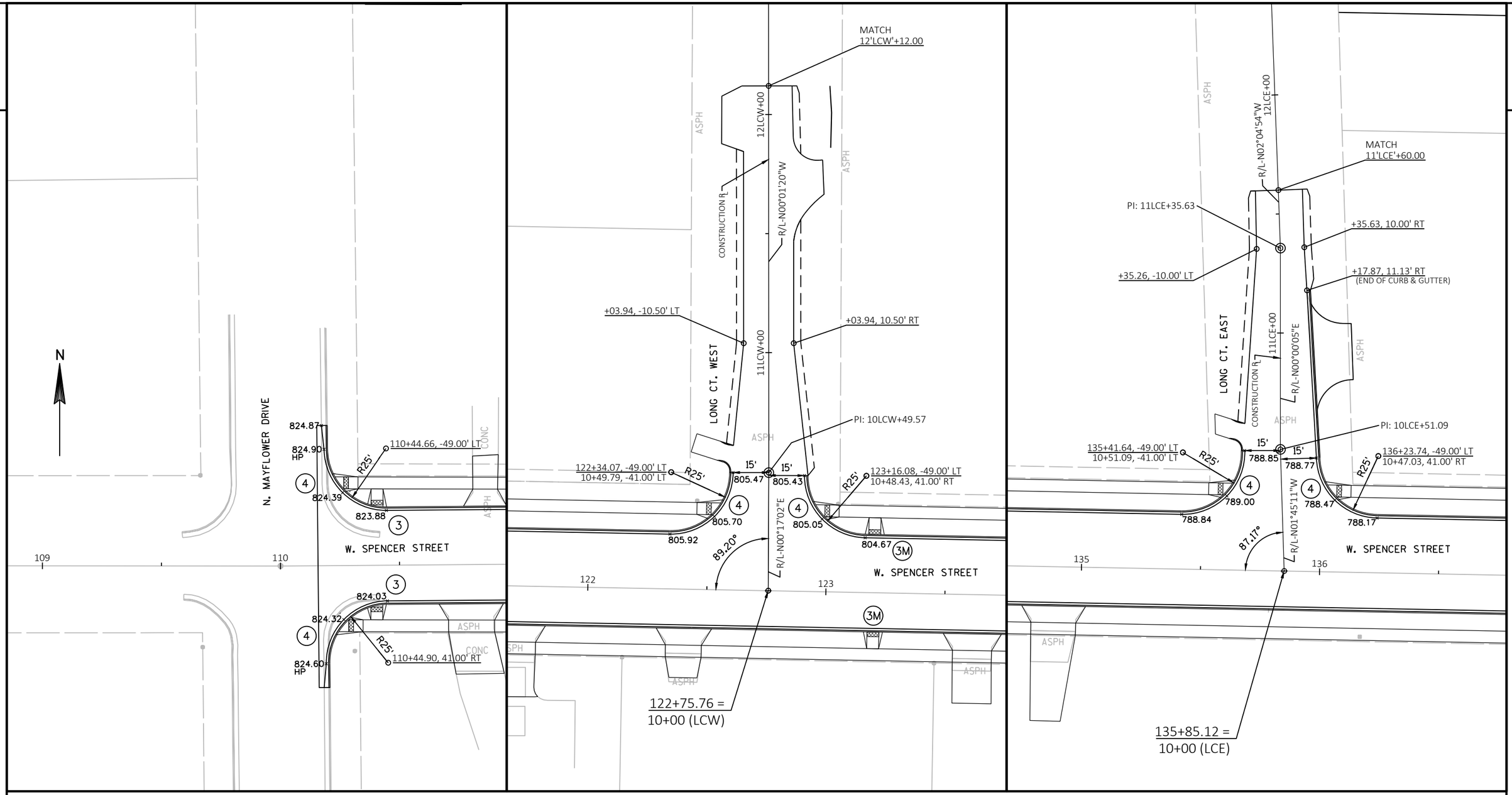
EDGEDRAIN IN URBAN ROADWAY



CULVERT PIPE CHECKS

INSTALL ON INLET END

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	02-CONSTRUCTION DETAILS	SHEET 14	E



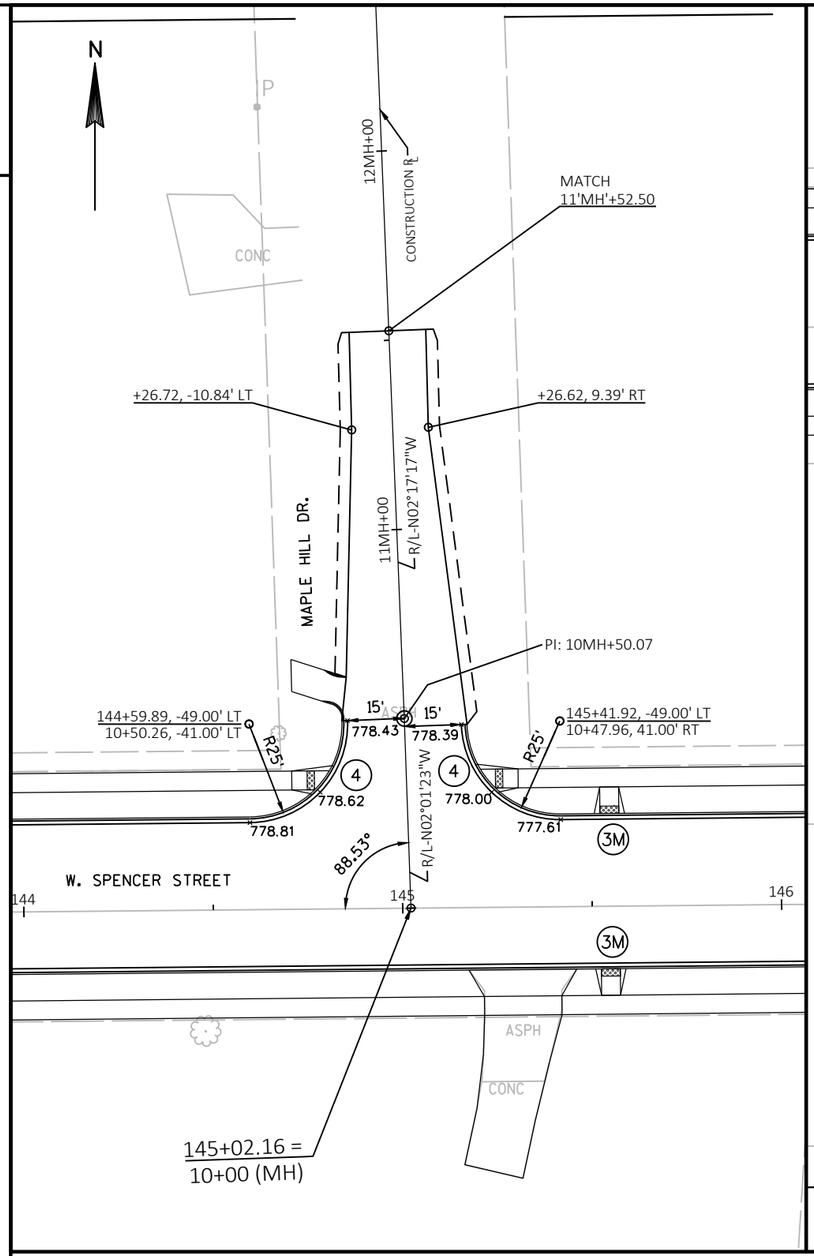
NOTES:

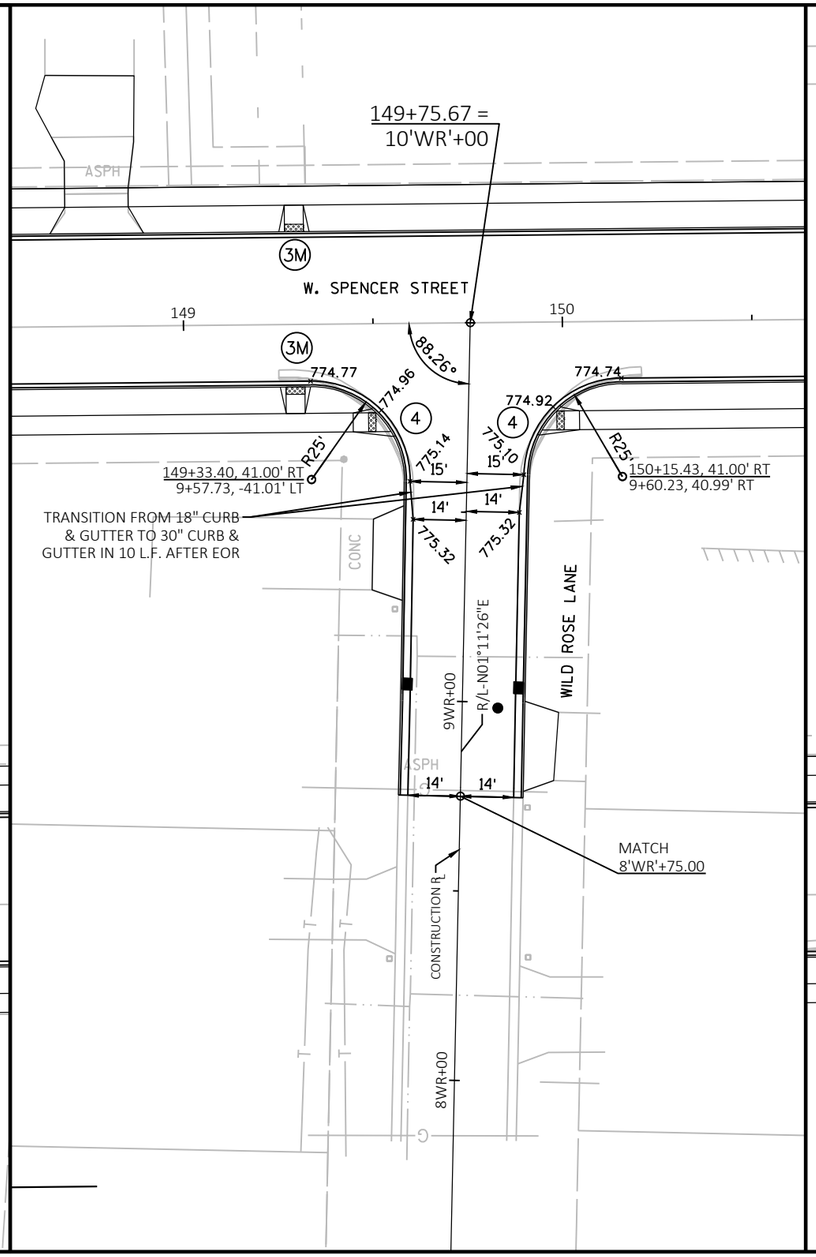
- REFER TO ALIGNMENT DETAIL FOR ADDITIONAL INFORMATION.
- SPOT ELEVATION AT EDGE OF PAVEMENT PROVIDED AT EOP AT END OF RADIUS AND CENTER OF RADIUS.

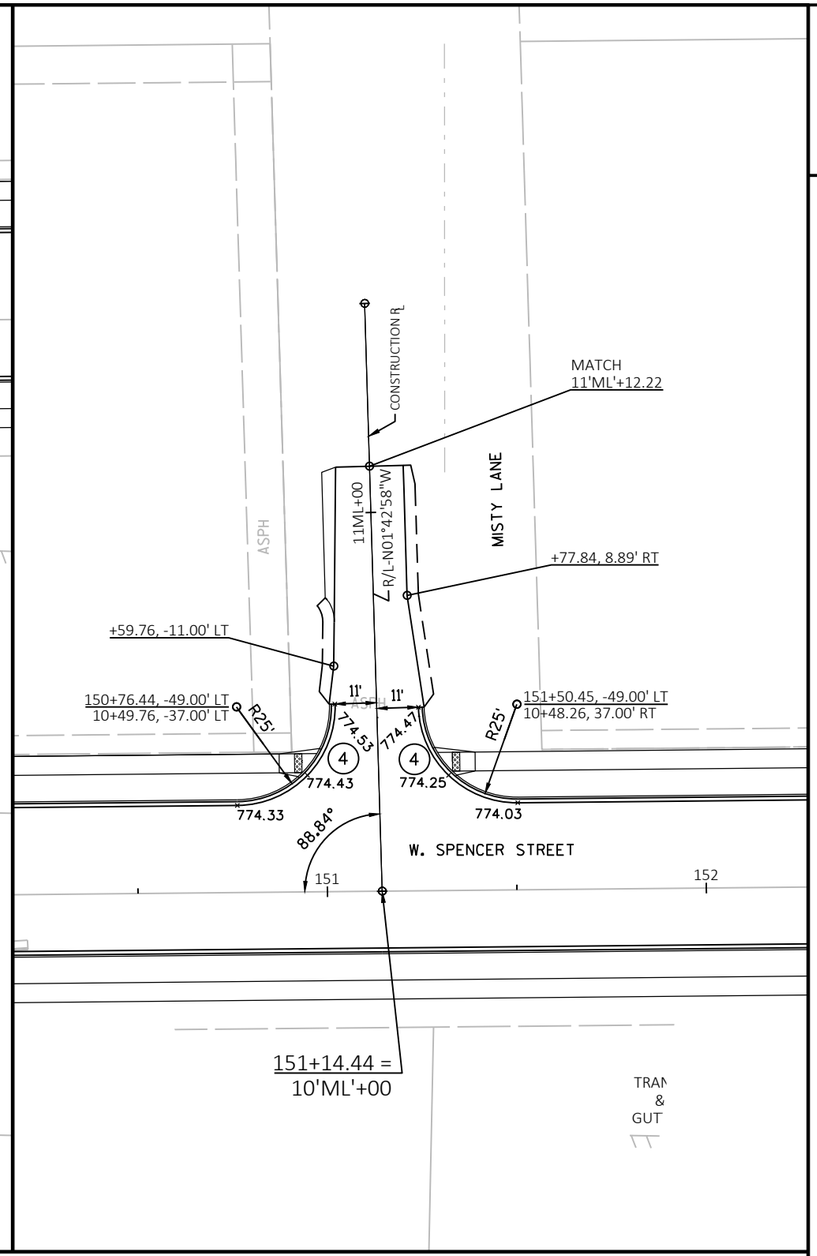
LEGEND	
3	TYPE 3 RAMP
3M	TYPE 3 MODIFIED RAMP (10-FT MAXIMUM OFFSET FROM INTERSECTION IS EXCEEDED)
4	TYPE 4B1 RAMP
R25'	25' RADIUS (TYP)

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PAVEMENT DETAILS	SHEET 15	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER INTERSECTIONS.DWG
LAYOUT NAME - 02 Intersection-01
PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT





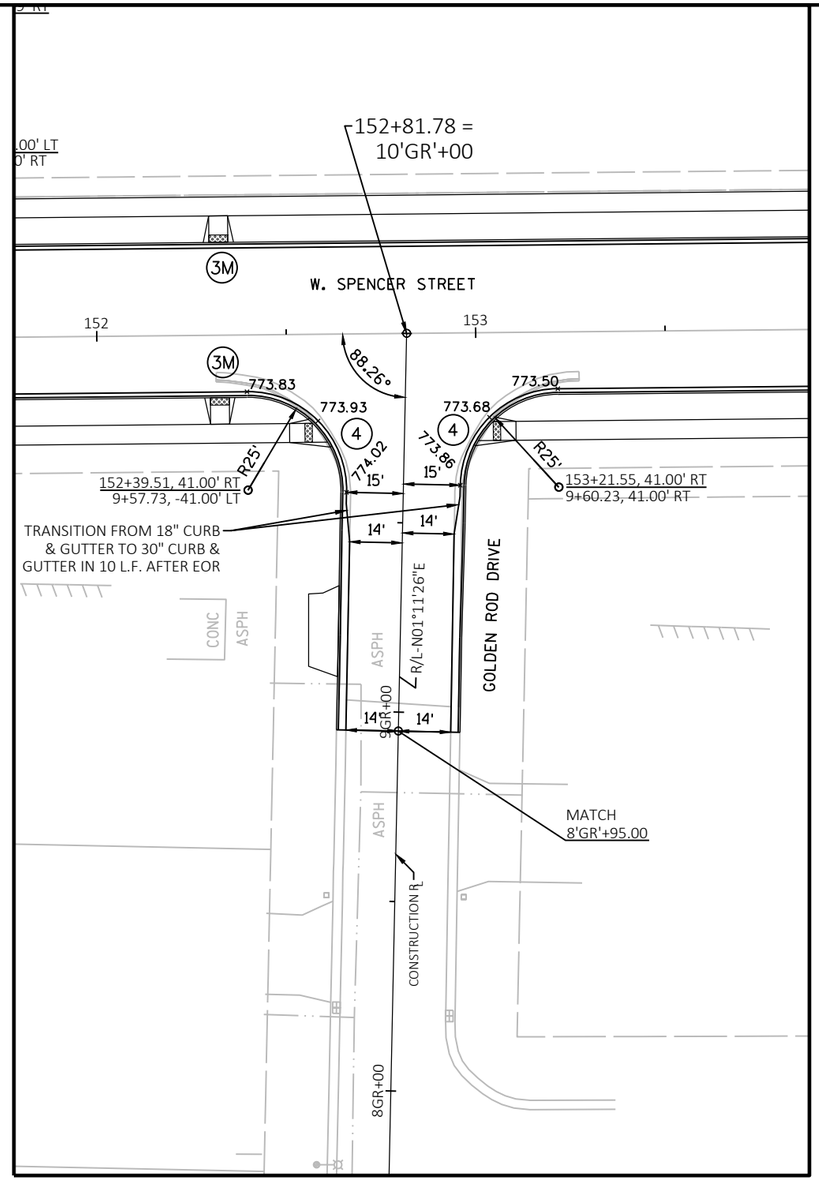


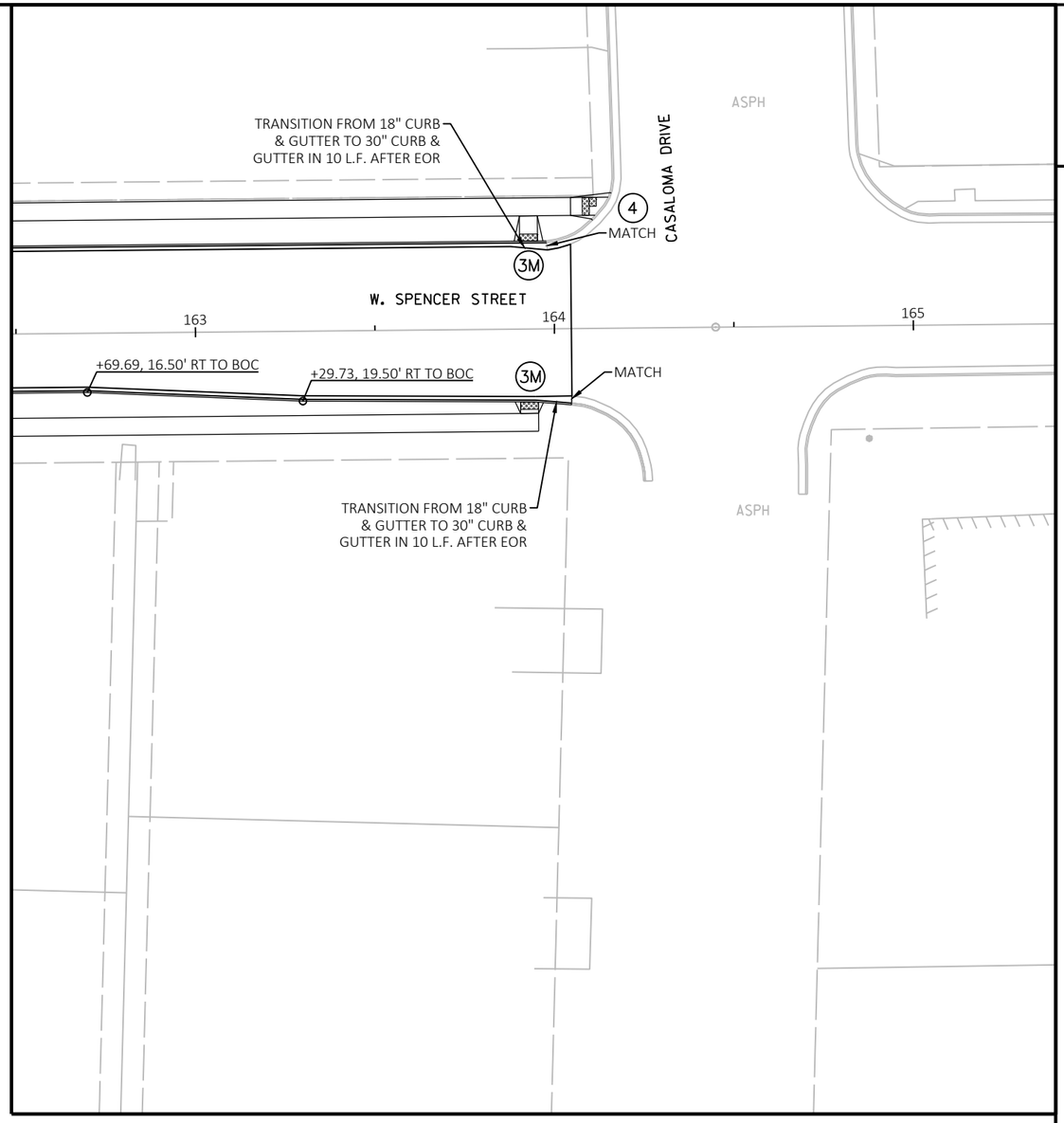
NOTES:

- REFER TO ALIGNMENT DETAIL FOR ADDITIONAL INFORMATION.
- SPOT ELEVATION AT EDGE OF PAVEMENT PROVIDED AT EOP AT END OF RADIUS AND CENTER OF RADIUS.

LEGEND	
3	TYPE 3 RAMP
3M	TYPE 3 MODIFIED RAMP (10-FT MAXIMUM OFFSET FROM INTERSECTION IS EXCEEDED)
4	TYPE 4B1 RAMP
R25'	25' RADIUS (TYP)

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PAVEMENT DETAILS	SHEET 16	E





NOTES:

- REFER TO ALIGNMENT DETAIL FOR ADDITIONAL INFORMATION.
- SPOT ELEVATION AT EDGE OF PAVEMENT PROVIDED AT EOP AT END OF RADIUS AND CENTER OF RADIUS.

LEGEND	
3	TYPE 3 RAMP
3M	TYPE 3 MODIFIED RAMP (10-FT MAXIMUM OFFSET FROM INTERSECTION IS EXCEEDED)
4	TYPE 4B1 RAMP
R25'	25' RADIUS (TYP)

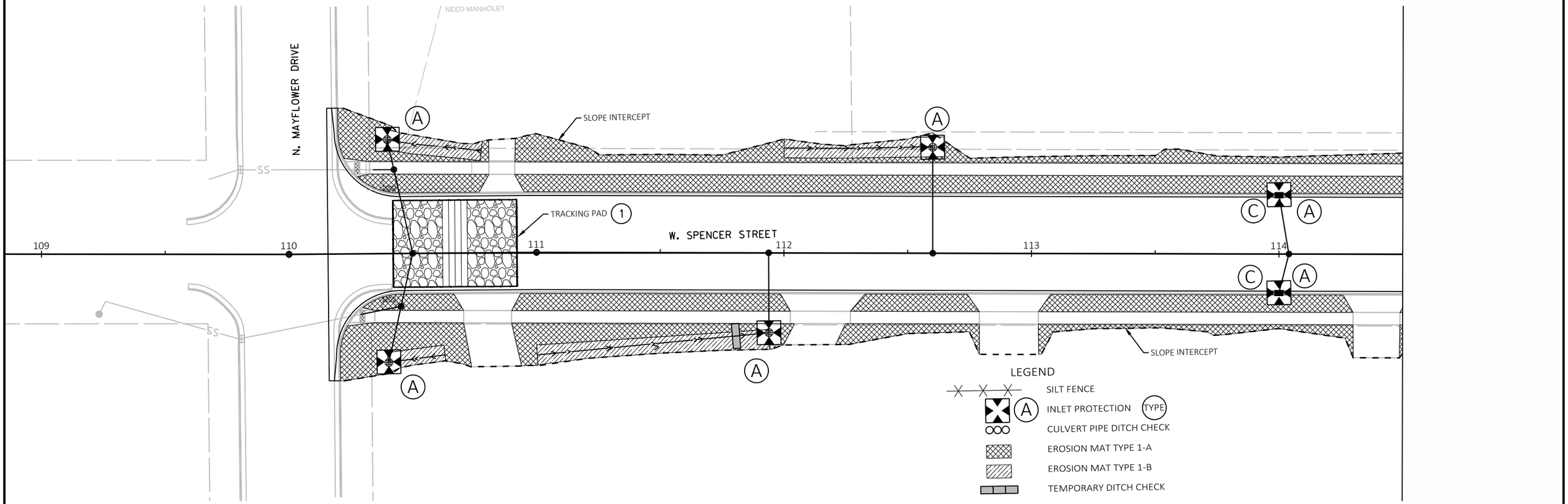
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PAVEMENT DETAILS	SHEET 17	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER INTERSECTIONS.DWG
LAYOUT NAME - 02 Intersection-03
PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

(1) TRACKING PADS TO BE CONSTRUCTED AND MAINTAINED TO ALLOW FOR LOCAL ACCESS TO PROPERTIES LOCATED IN THE WORK ZONE. STAGE CONSTRUCTION OF TRACKING PADS TO MATCH CONTRACTORS TRAFFIC CONTROL AND STAGING PLAN.



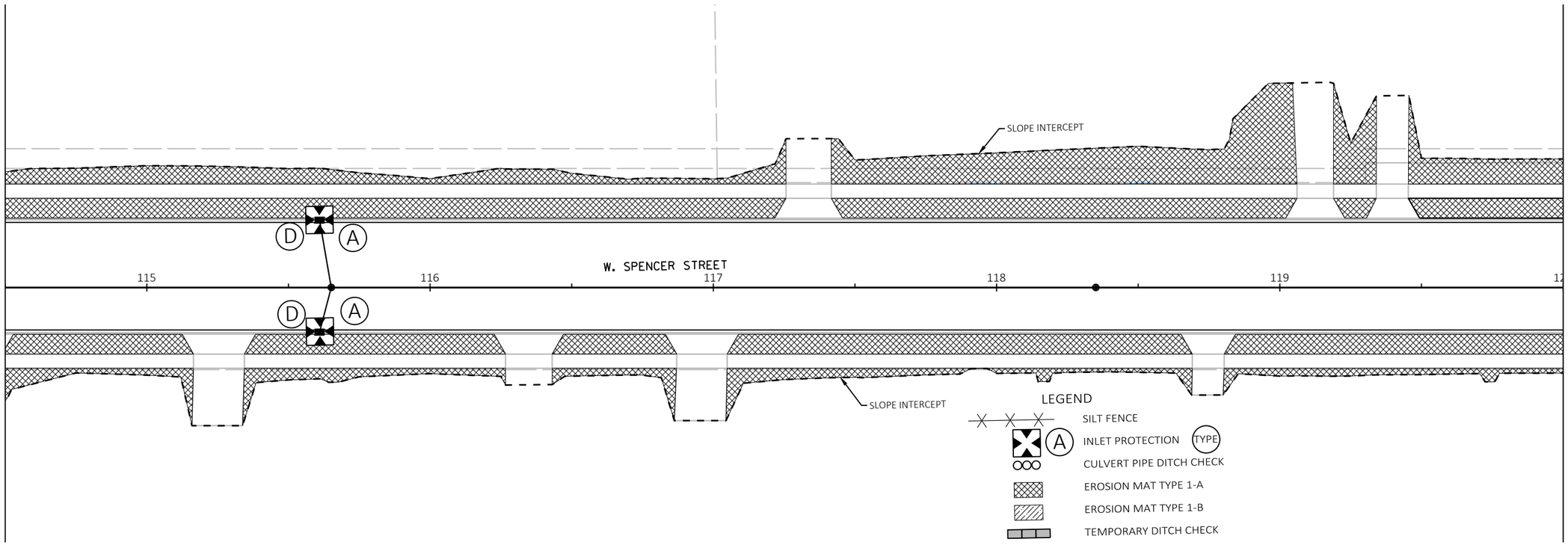
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 18	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 109+50.00

PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 19	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 114+50.00

PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

LONG CT.

SLOPE INTERCEPT

W. SPENCER STREET

120 121 122 123 124 125

SLOPE INTERCEPT

LEGEND

- SILT FENCE
- A — INLET PROTECTION (TYPE)
- CULVERT PIPE DITCH CHECK
- EROSION MAT TYPE 1-A
- EROSION MAT TYPE 1-B
- TEMPORARY DITCH CHECK

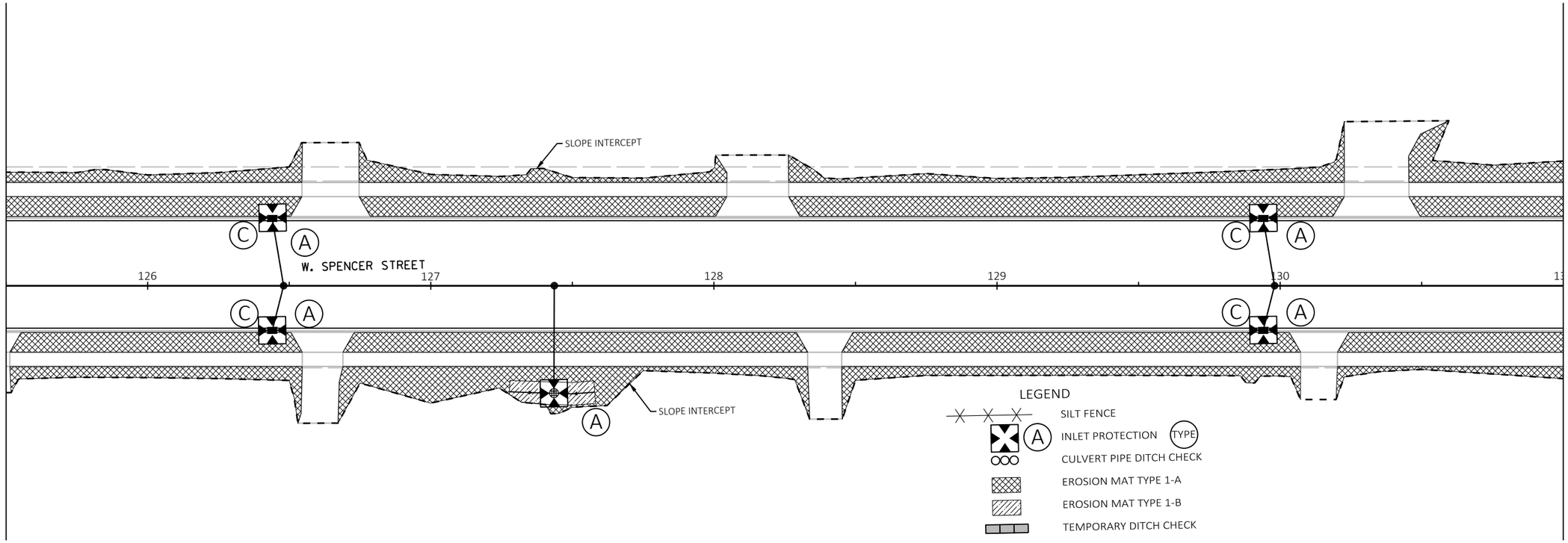
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 20	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 120+00.00

PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

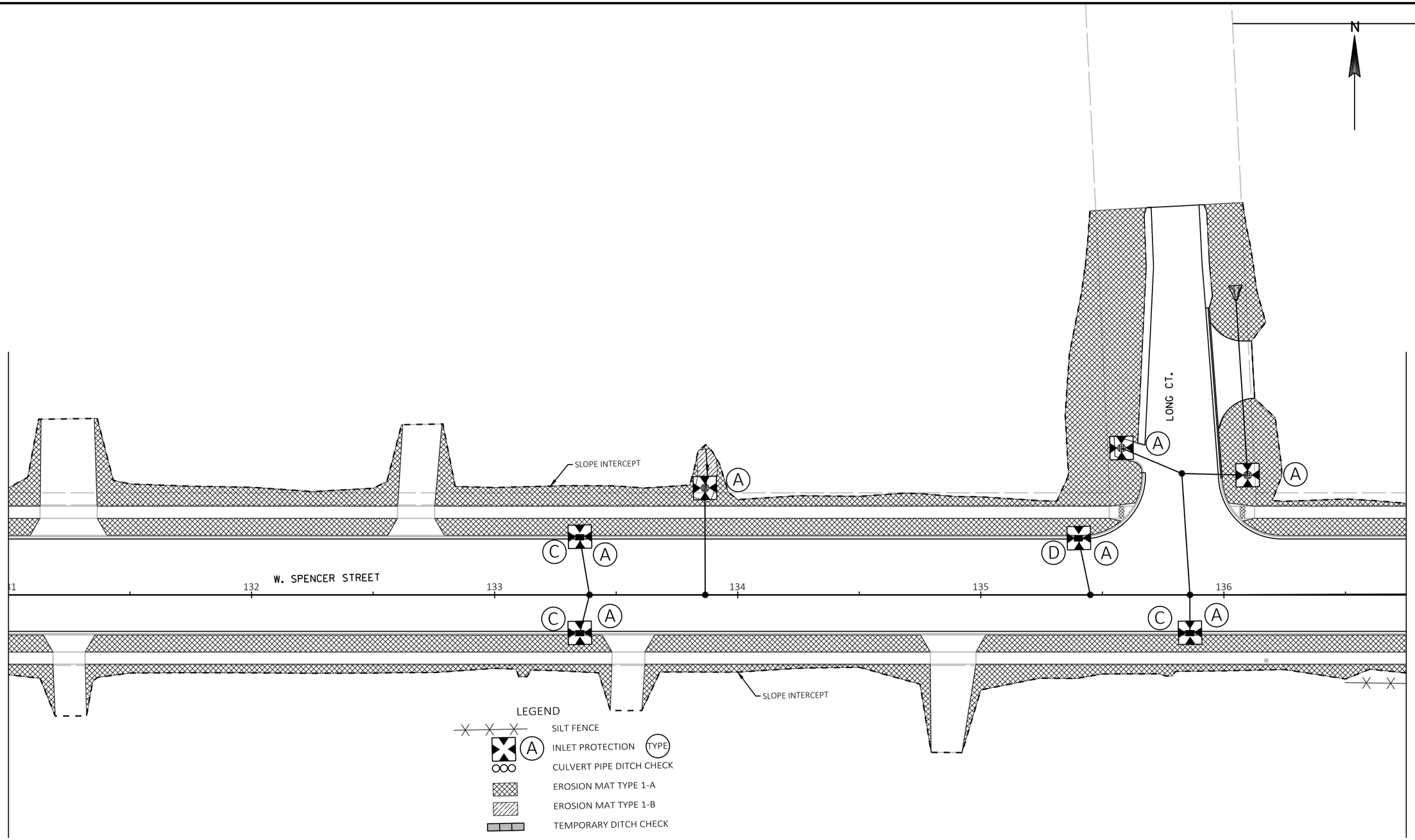
N



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 21	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 125+50.00

PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 22	E

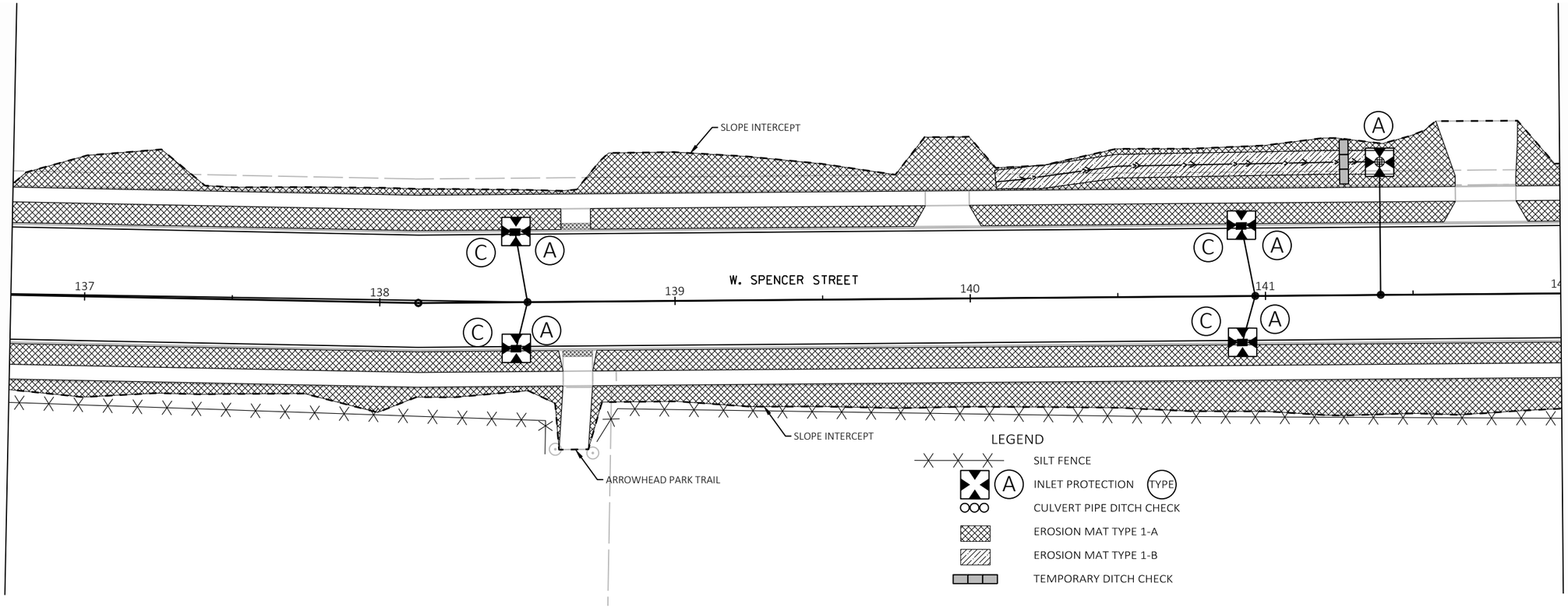
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 131+00.00

PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

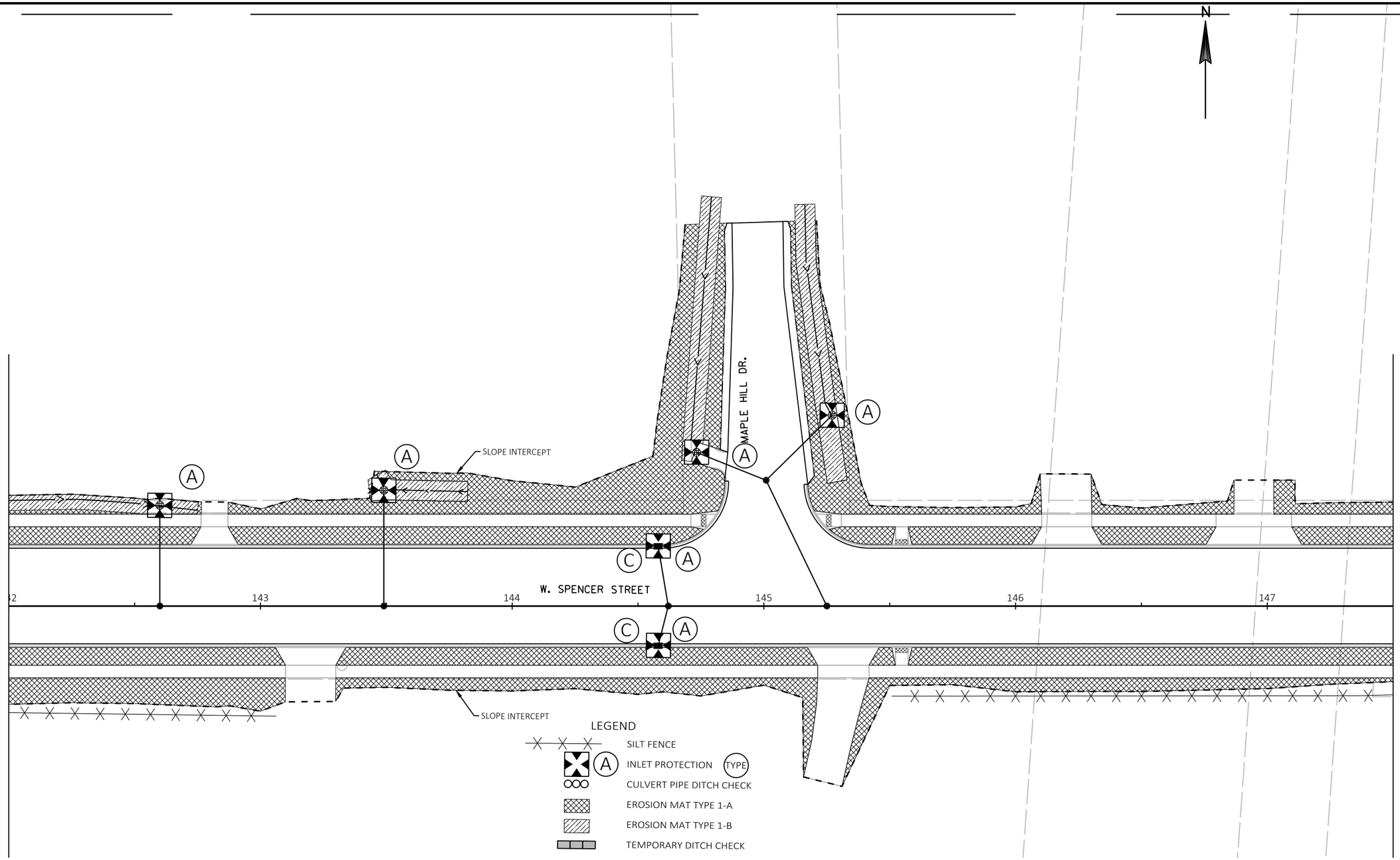
N



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 23	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 136+75.00

PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

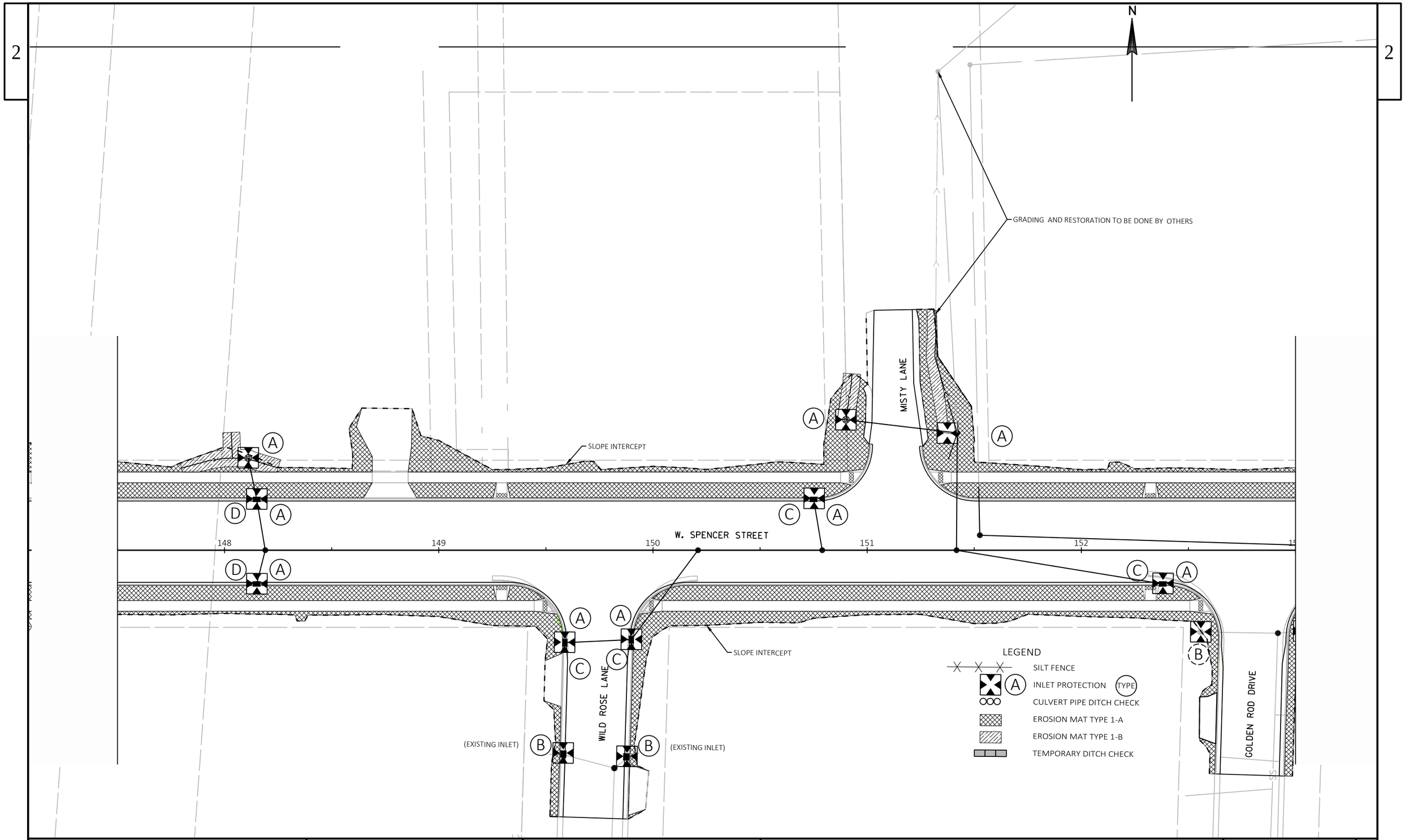


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 24	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 142+00.00

PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



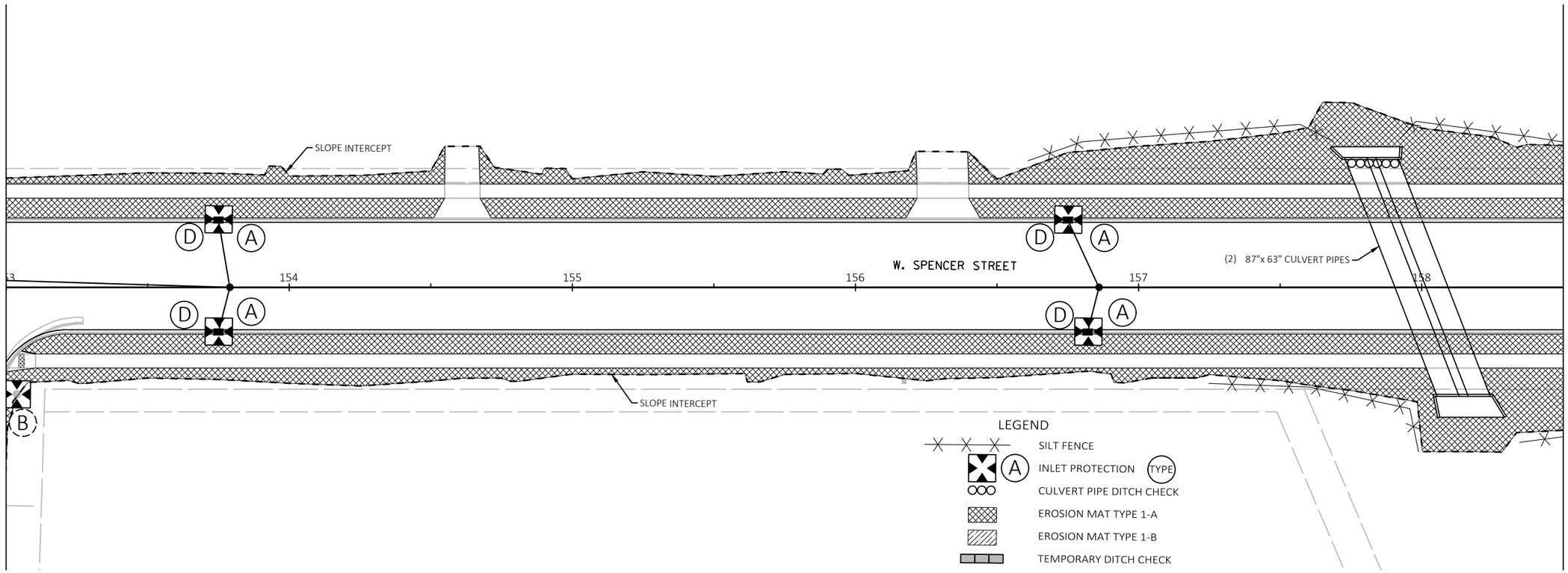
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 25	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 147+50.00

PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES:
REFER TO SPECIAL PROVISIONS REGARDING DEWATERING AND BYPASS PUMPING REQUIREMENTS FOR PIPE REMOVAL AND INSTALLATION OF THE CSCP AT STA. 158±00

N

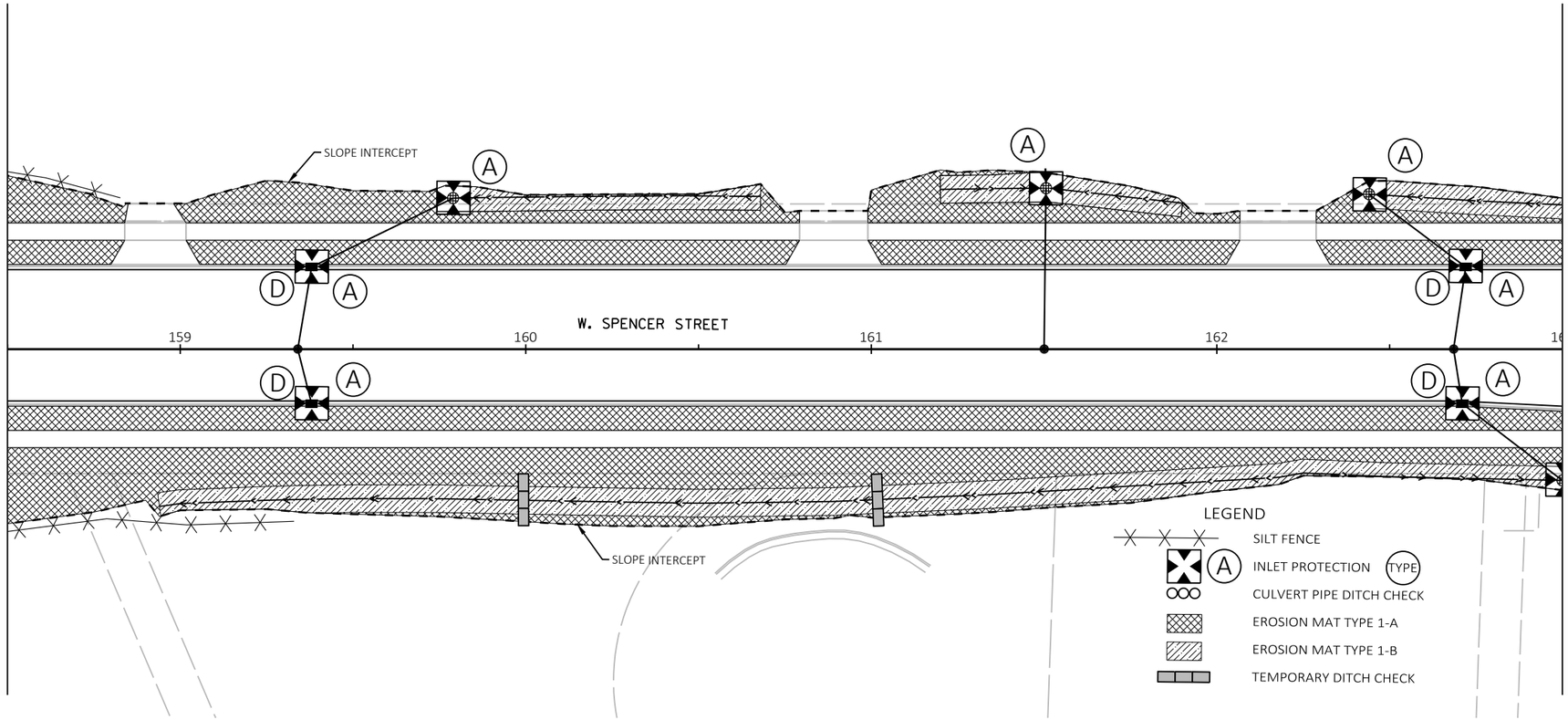


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 26	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 153+00.00
PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES:
REFER TO SPECIAL PROVISIONS REGARDING DEWATERING AND BYPASS PUMPING REQUIREMENTS FOR PIPE REMOVAL AND INSTALLATION OF THE CSCP AT STA. 158±00

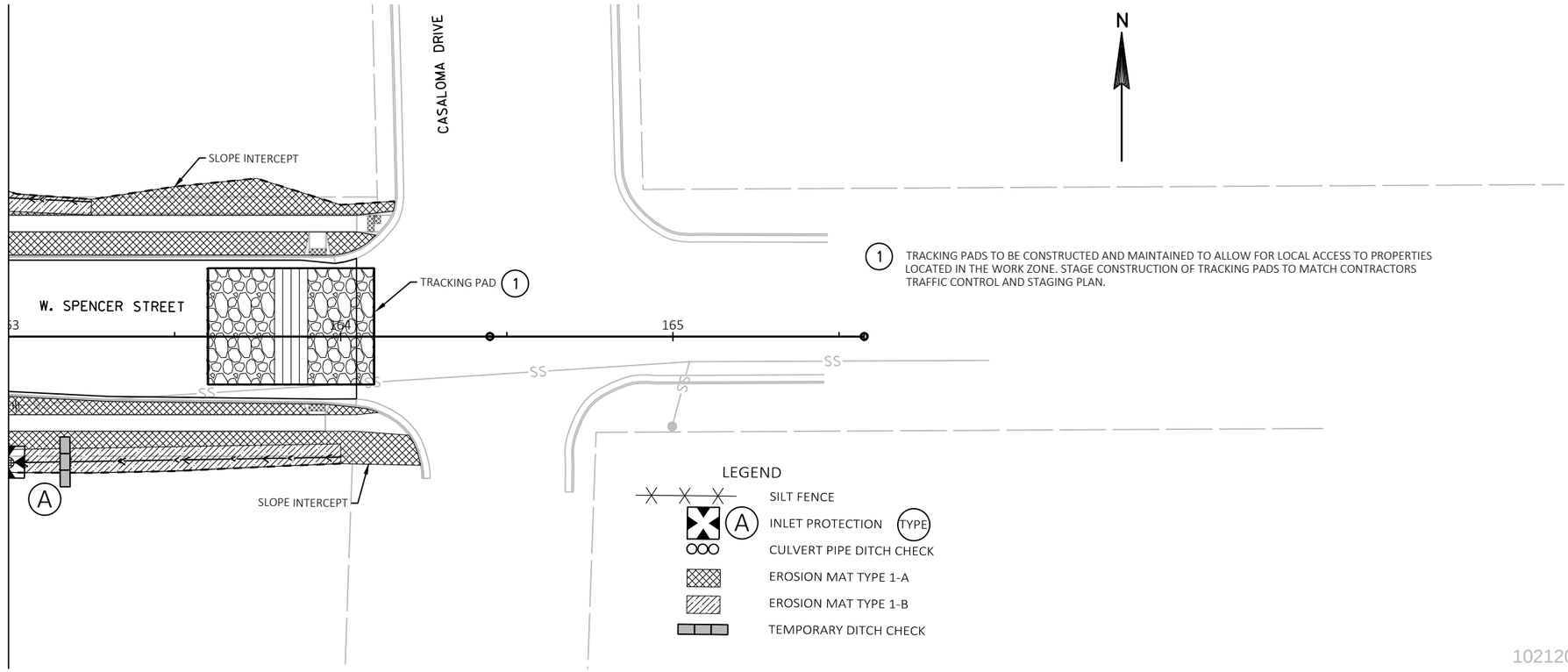
N



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 27	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 158+50.00
PLOT DATE : 12/21/2018 9:06 AM
PLOT BY : CHRIS CLEMENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

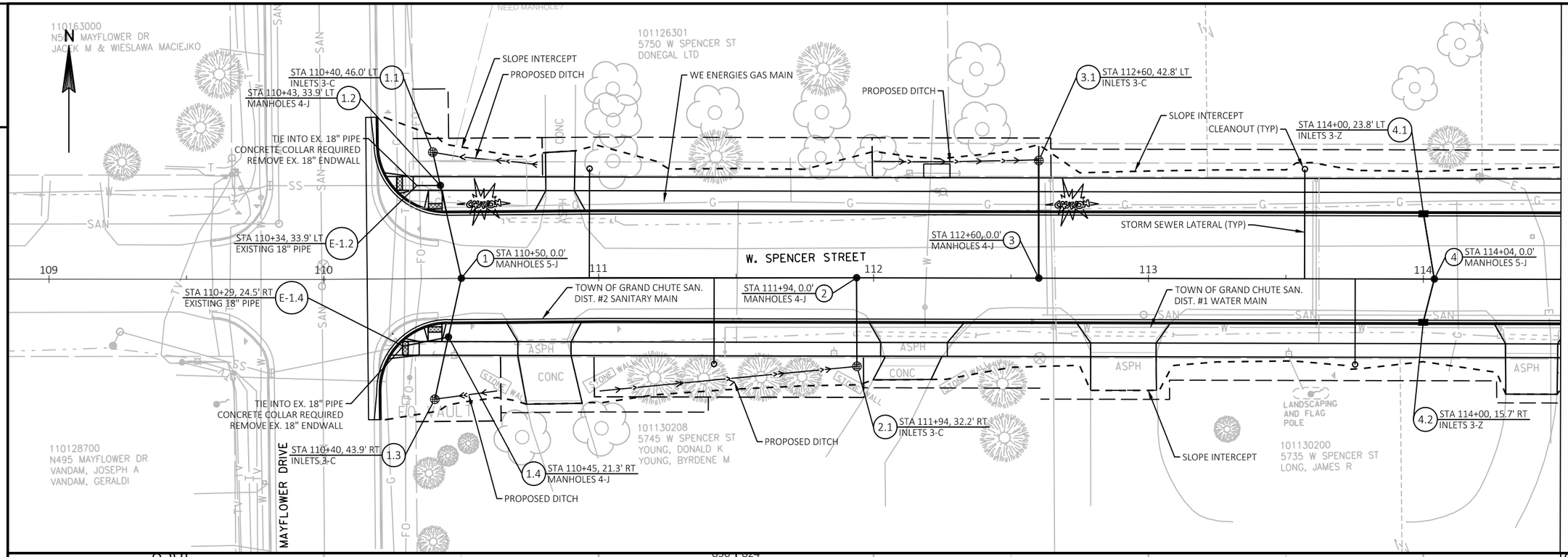


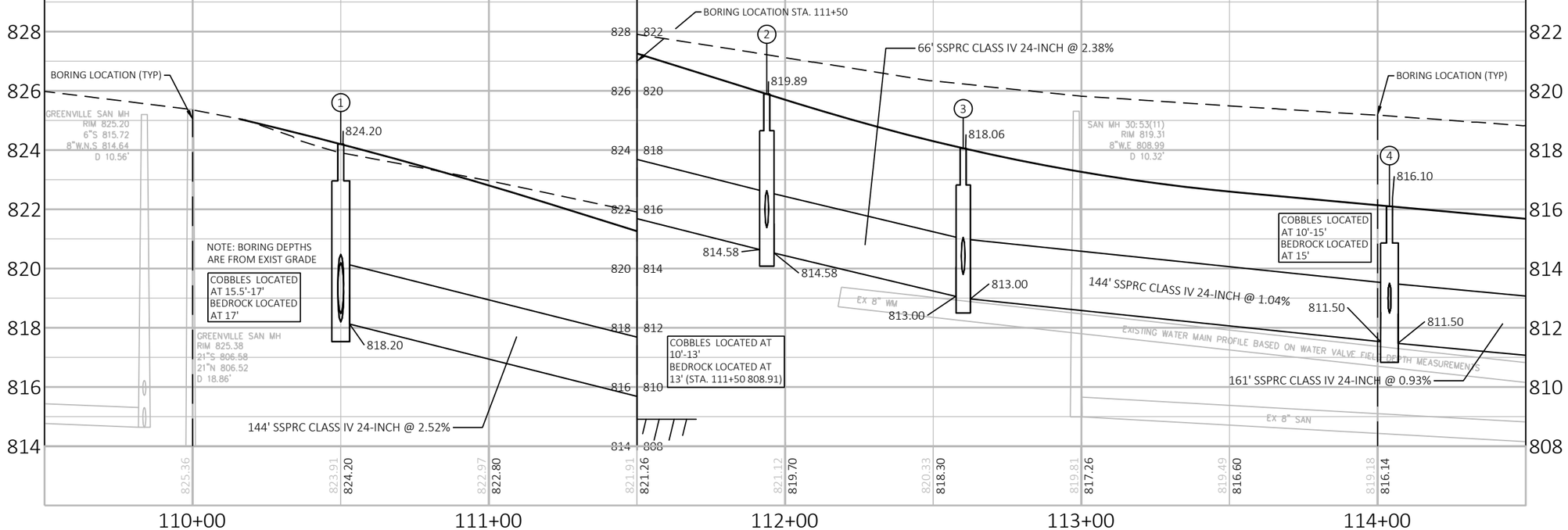
102120800 4625

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	EROSION CONTROL DETAIL	SHEET 28	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02- SPENCER EC DETAIL.DWG
LAYOUT NAME - 163+00.00

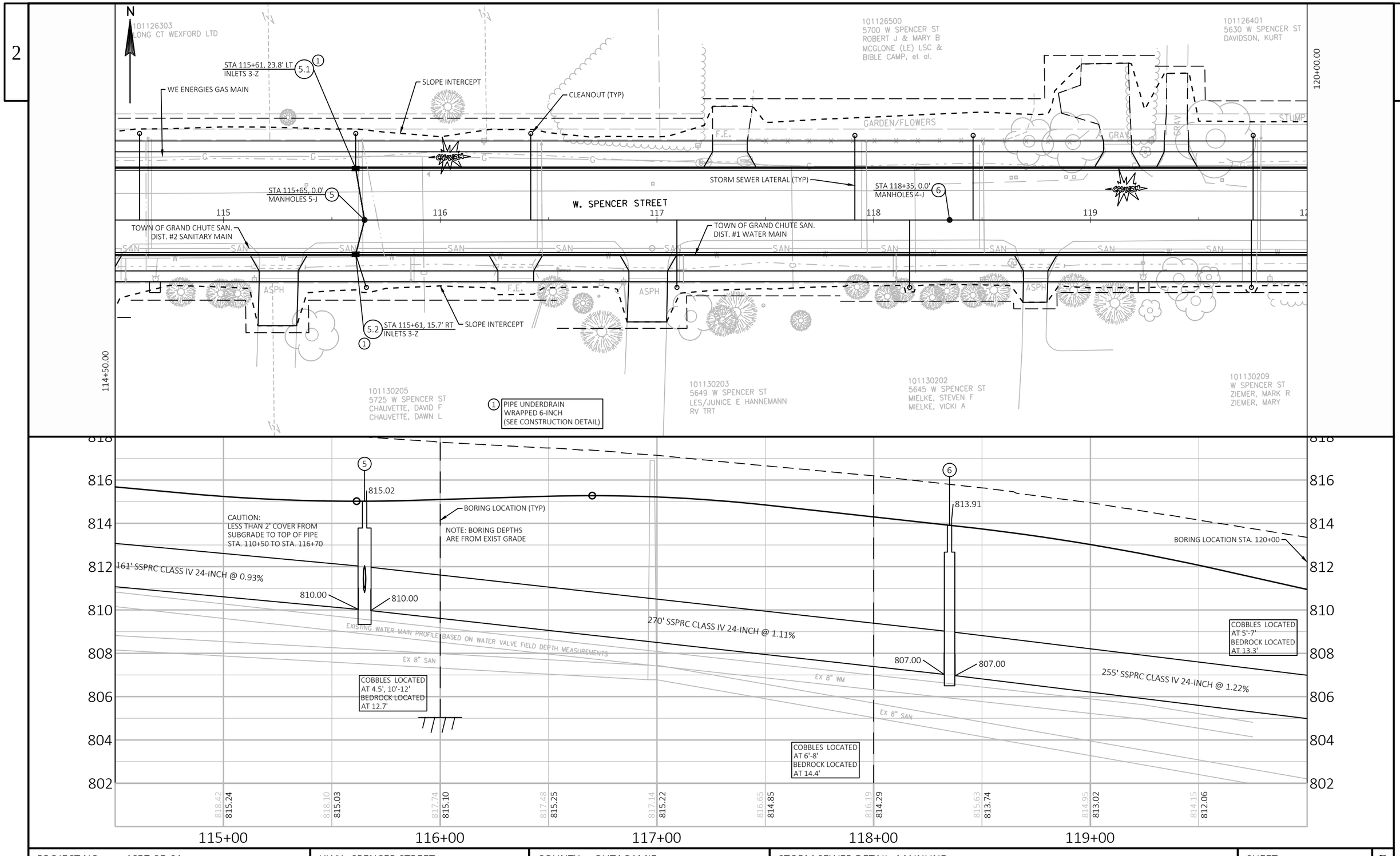
PLOT DATE : 12/21/2018 9:06 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT





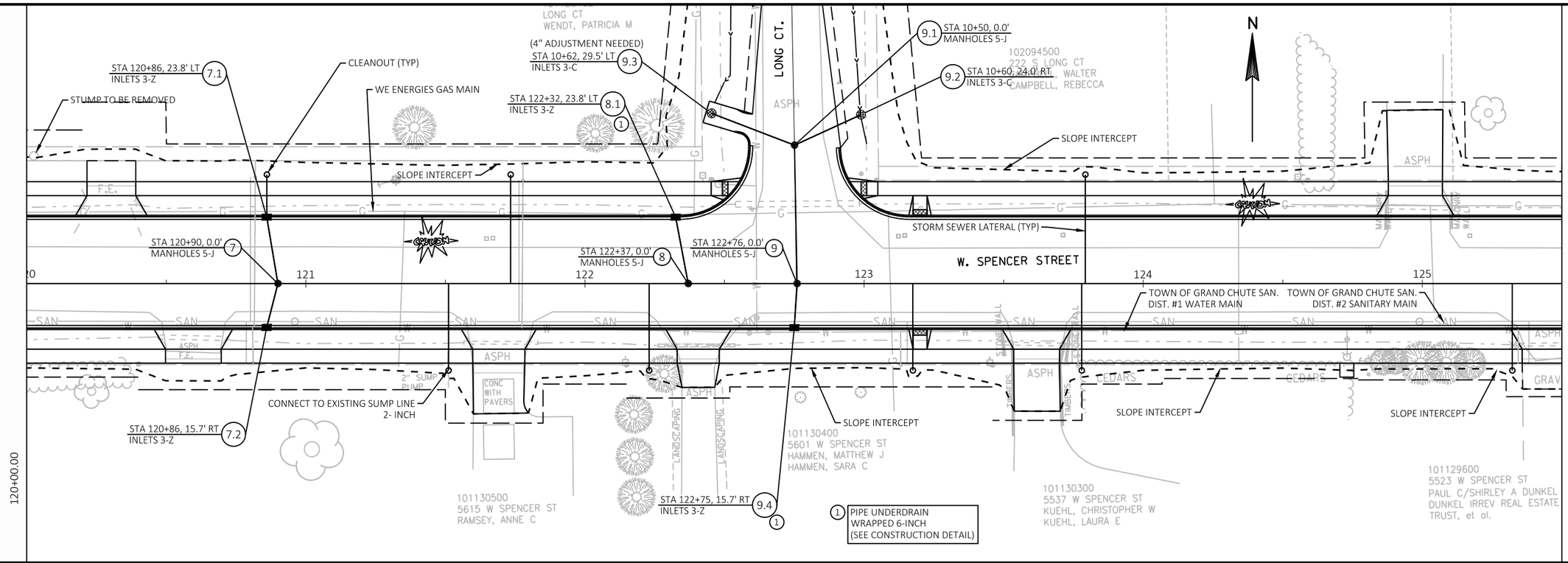
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 29	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 109+50.00
PLOT DATE : 12/21/2018 9:07 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40



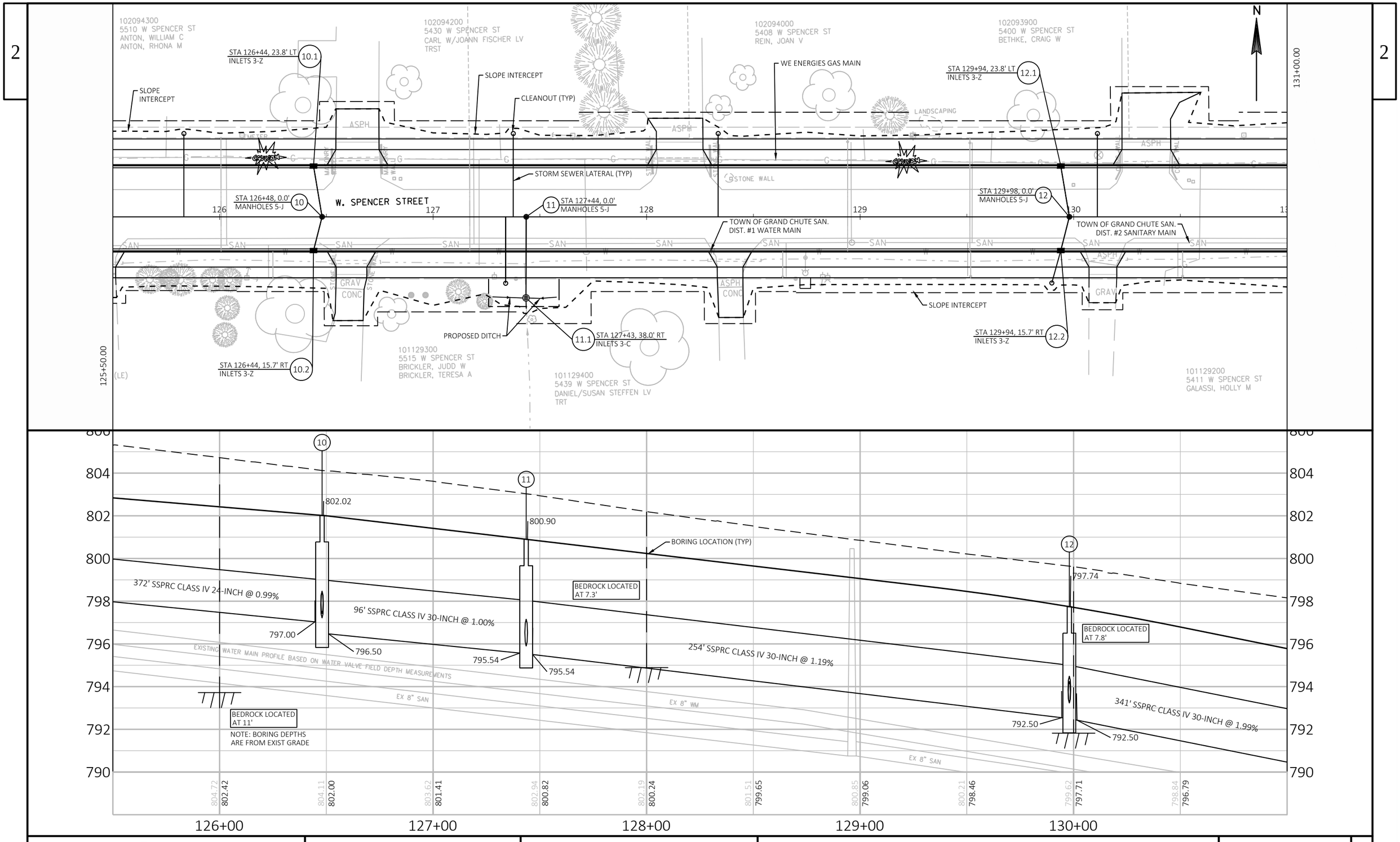
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 30	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 114+50.00
PLOT DATE : 12/21/2018 9:07 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 31 E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 120+00.00
PLOT DATE : 12/21/2018 9:07 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

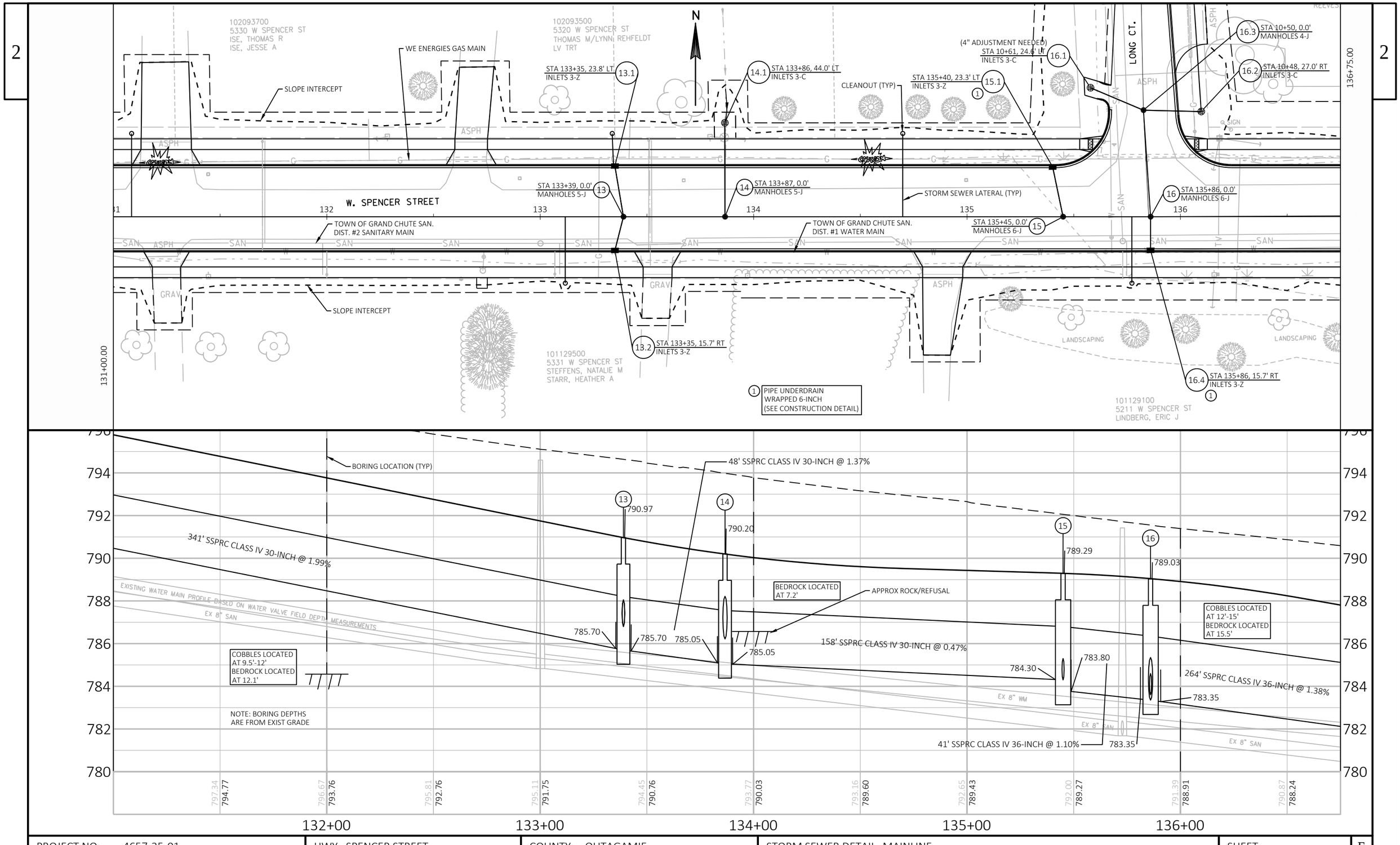


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 32	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 125+50.00

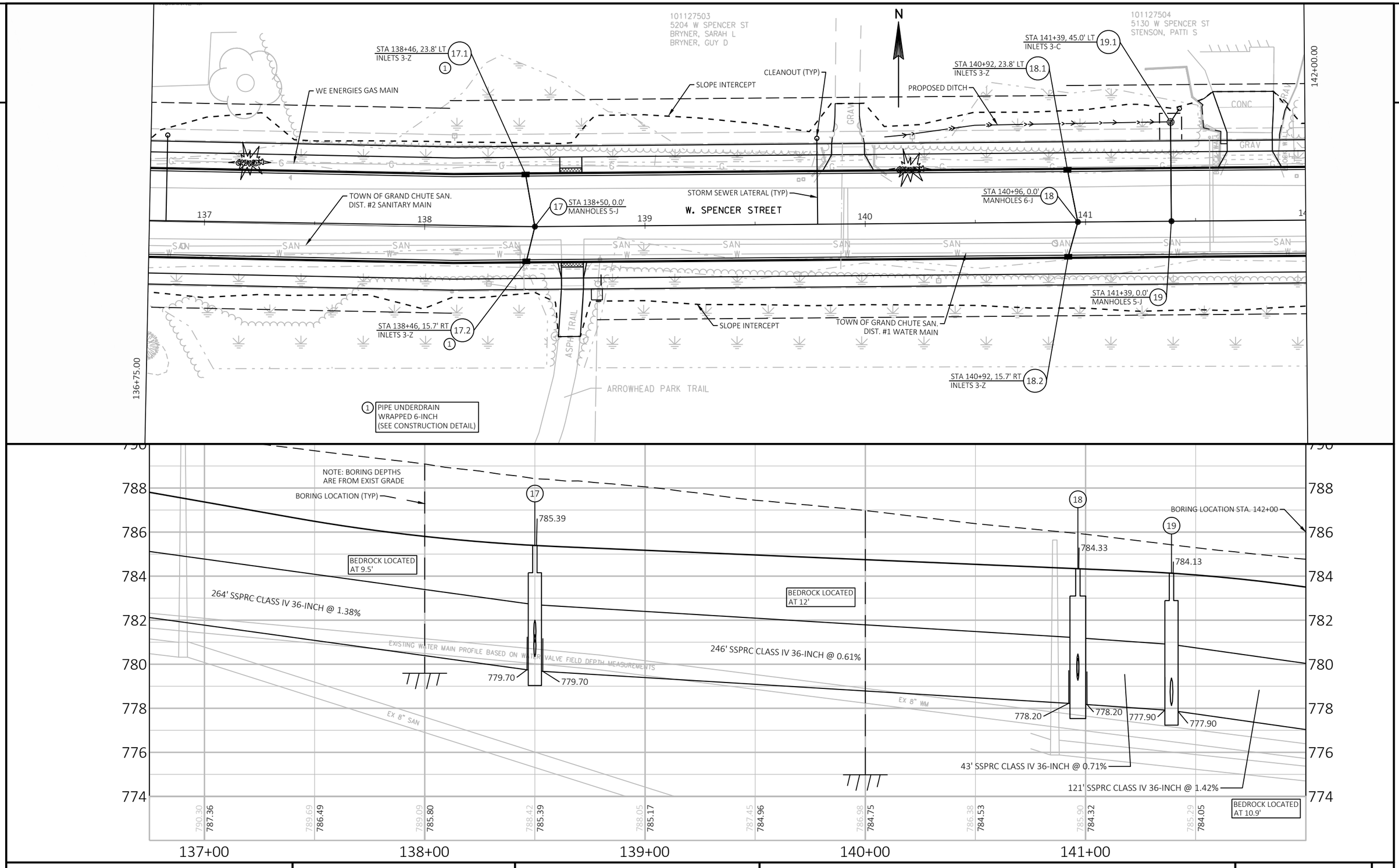
PLOT DATE : 12/21/2018 9:07 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 44



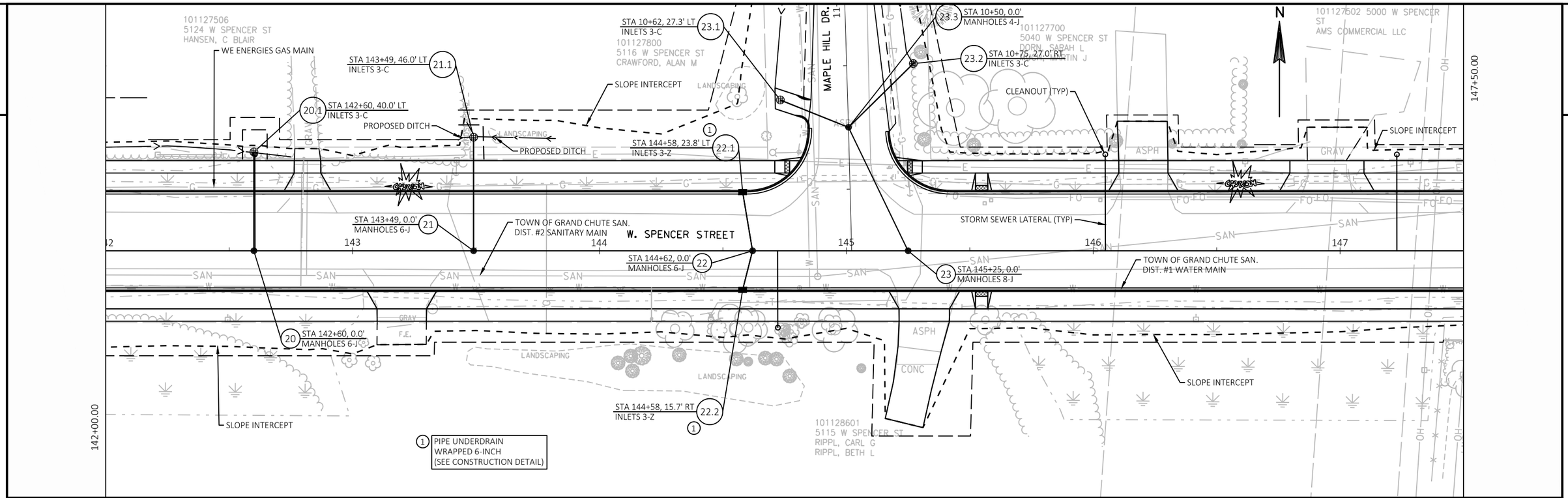
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 33 E

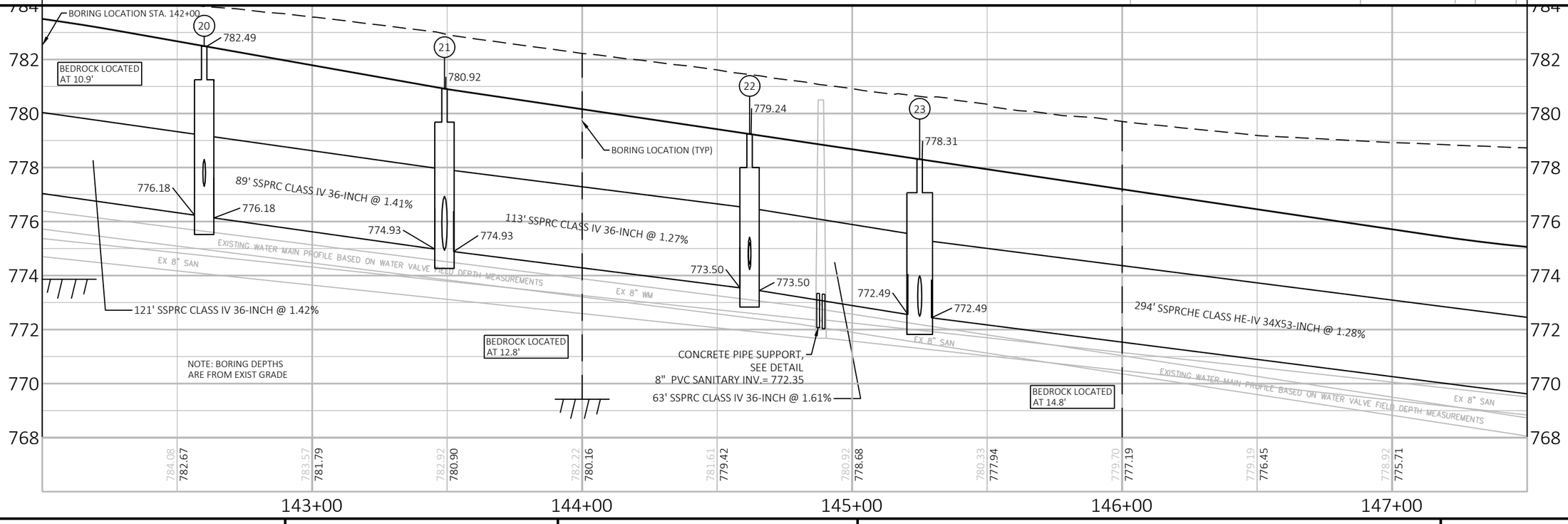
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 131+00.00
PLOT DATE : 12/21/2018 9:07 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40
WISDOT/CADDS SHEET 44



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 34	E

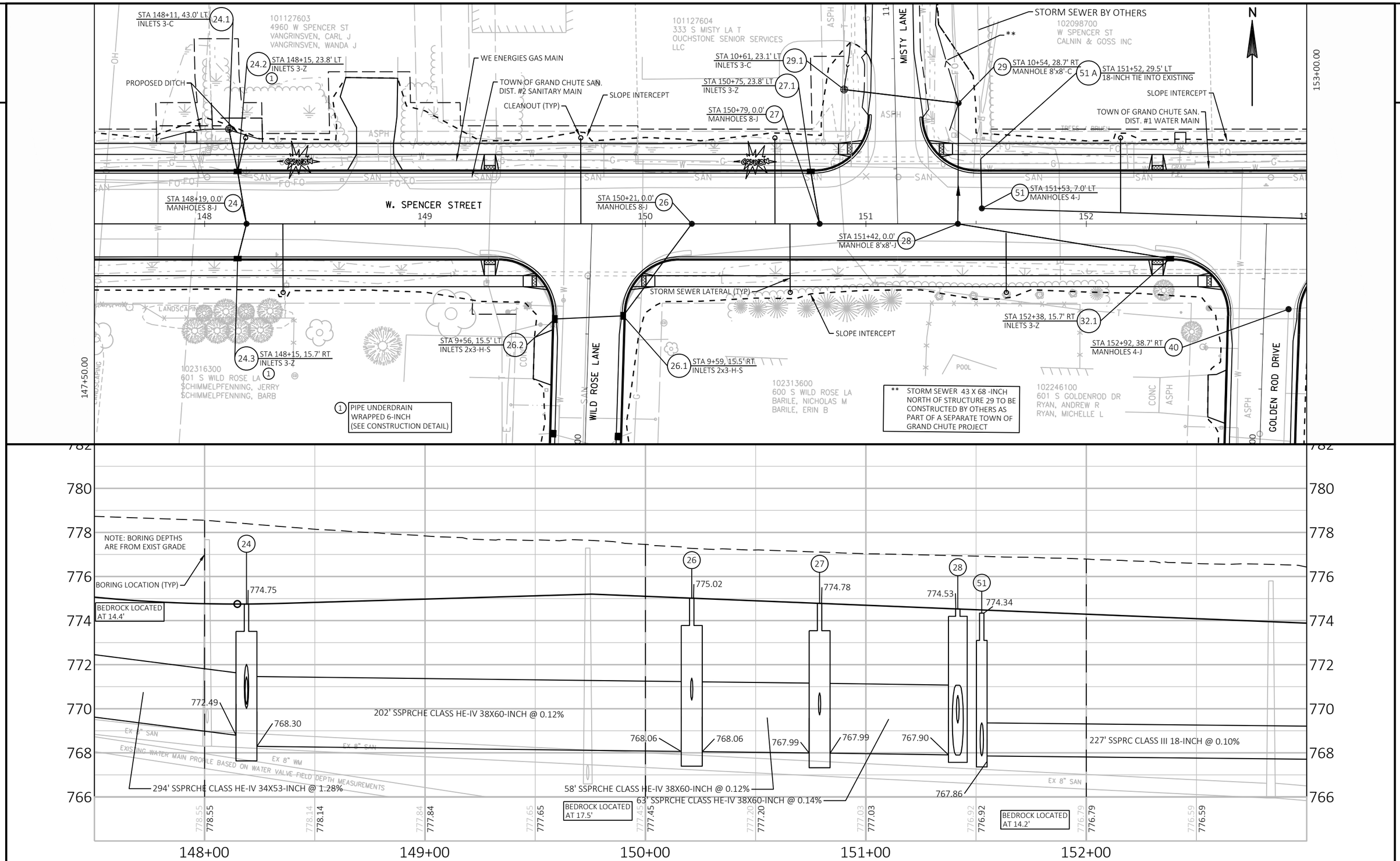
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 136+75.00
PLOT DATE : 12/21/2018 9:07 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40





PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 35	E

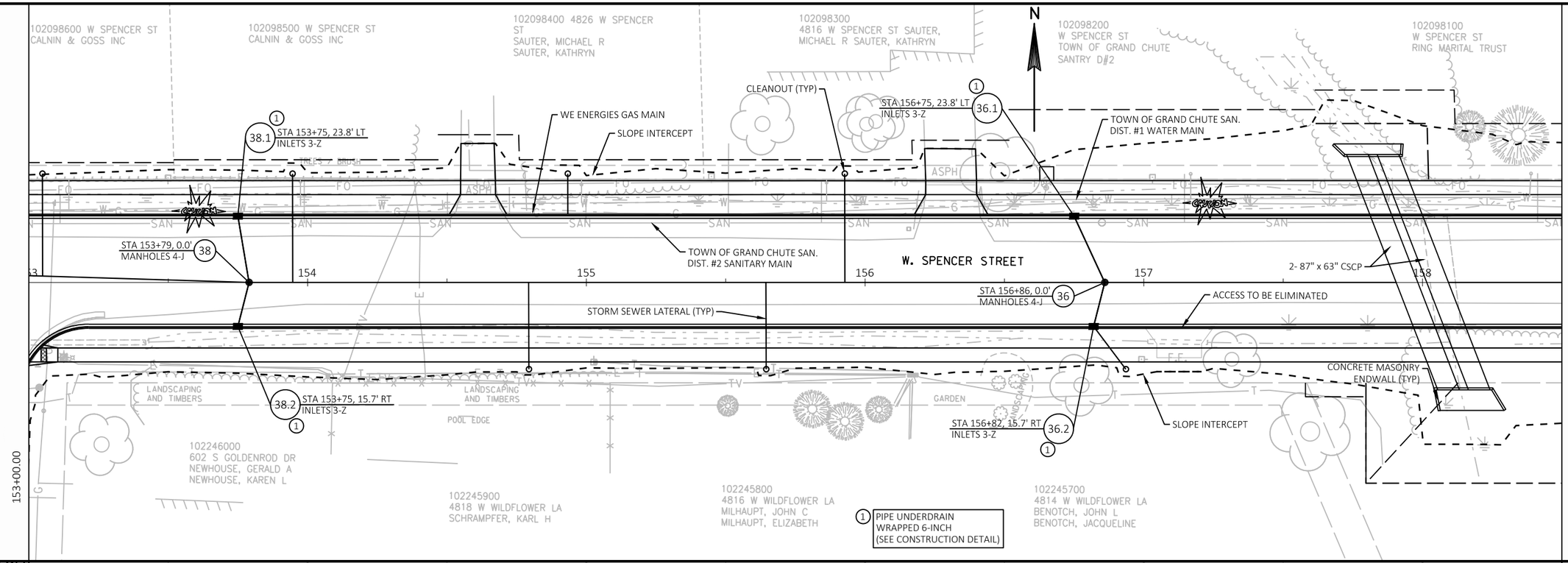
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 142+00.00
PLOT DATE : 12/21/2018 9:07 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40
WISDOT/CADDS SHEET 44

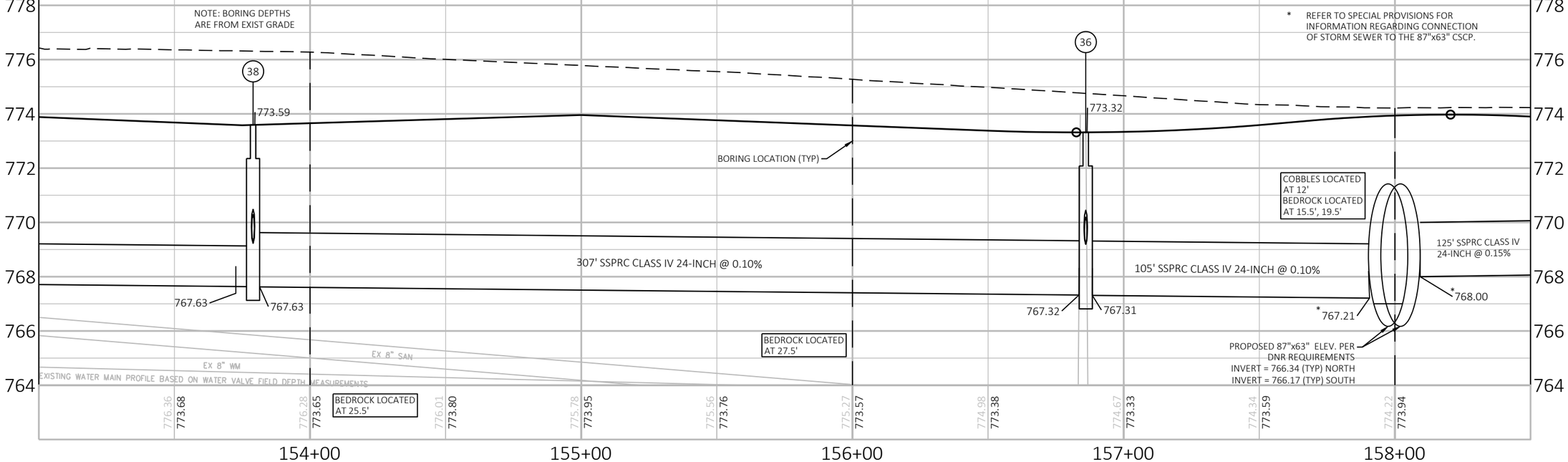


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 36	E

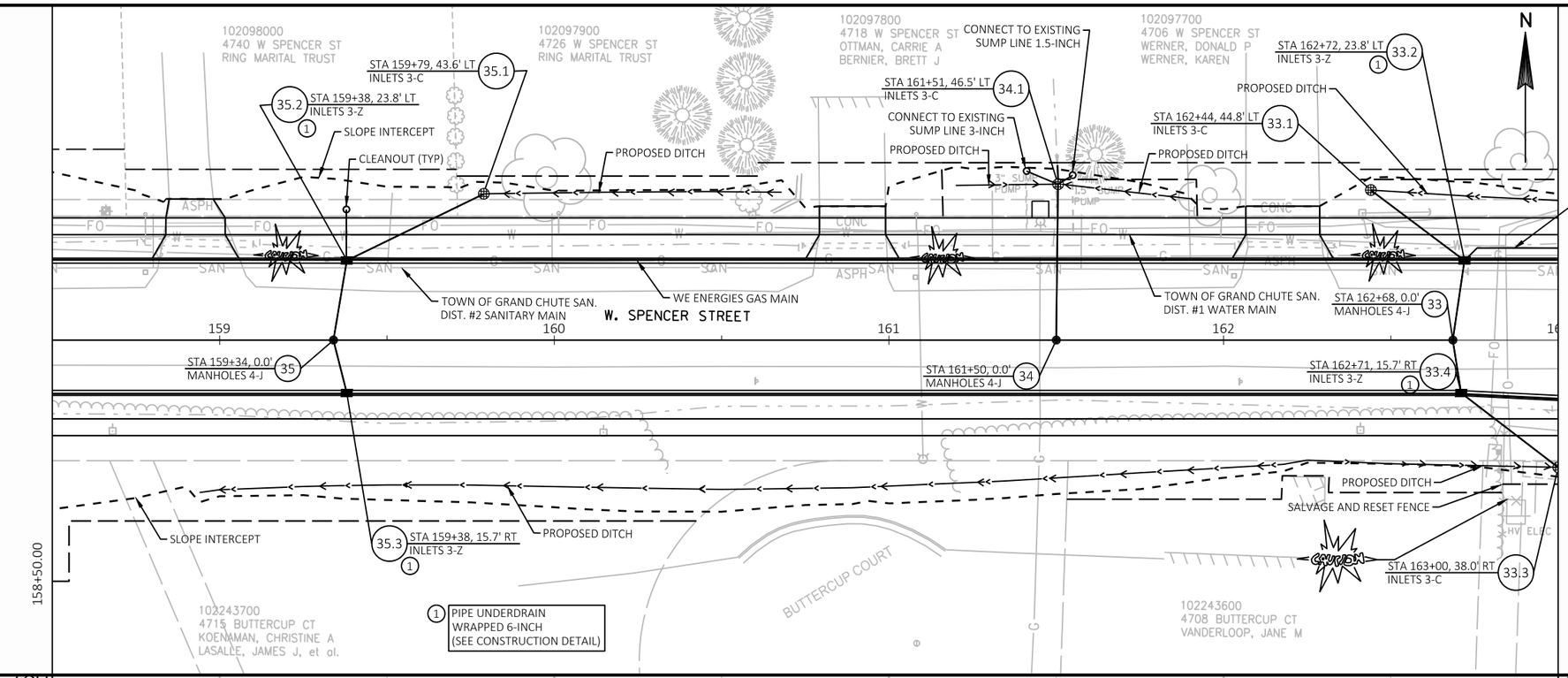
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 147+50.00
PLOT DATE : 12/21/2018 9:07 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

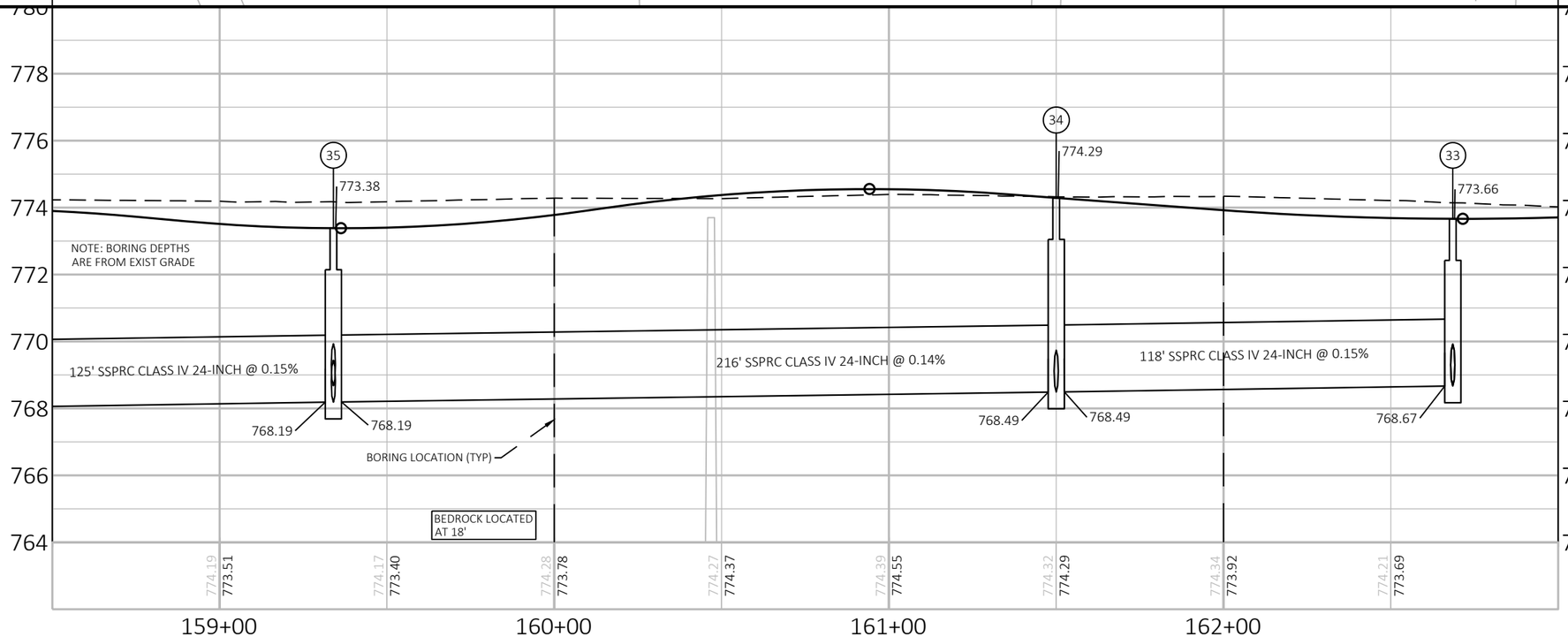
2



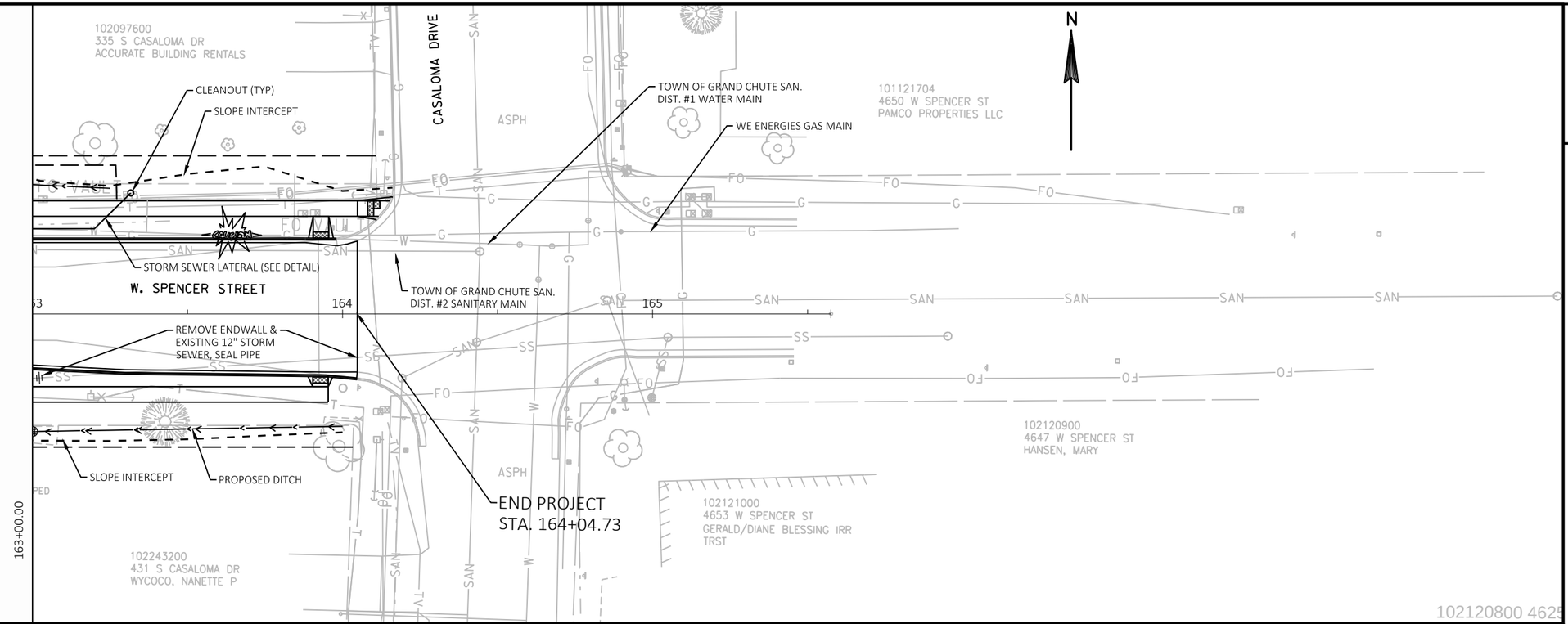


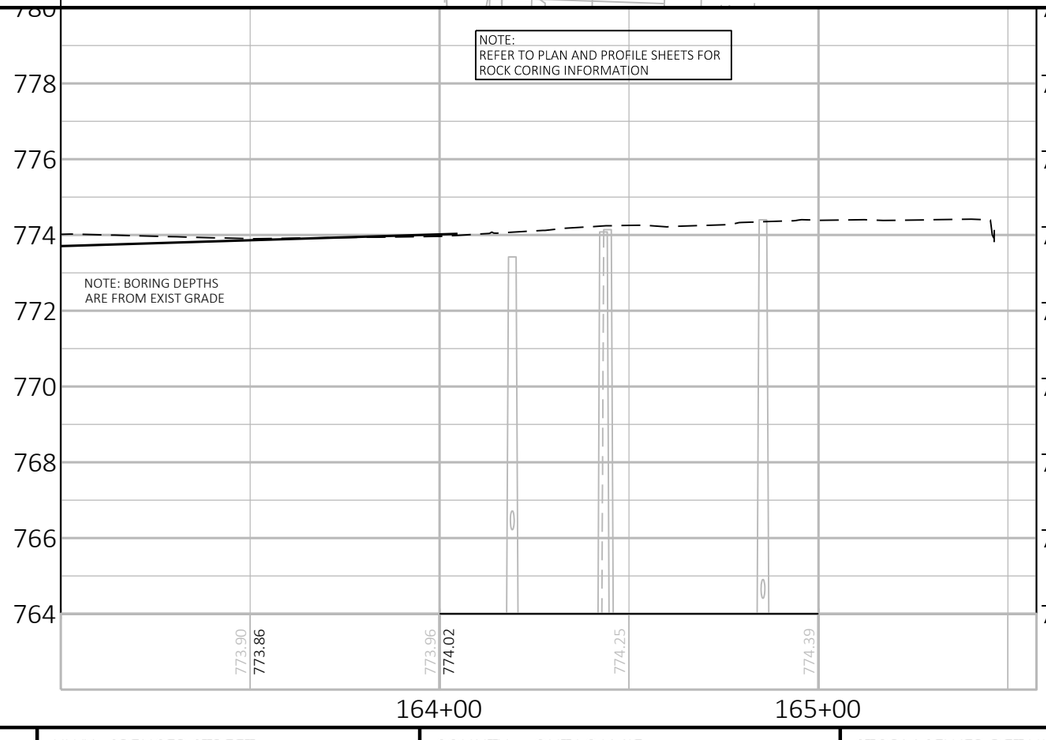
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 37	E

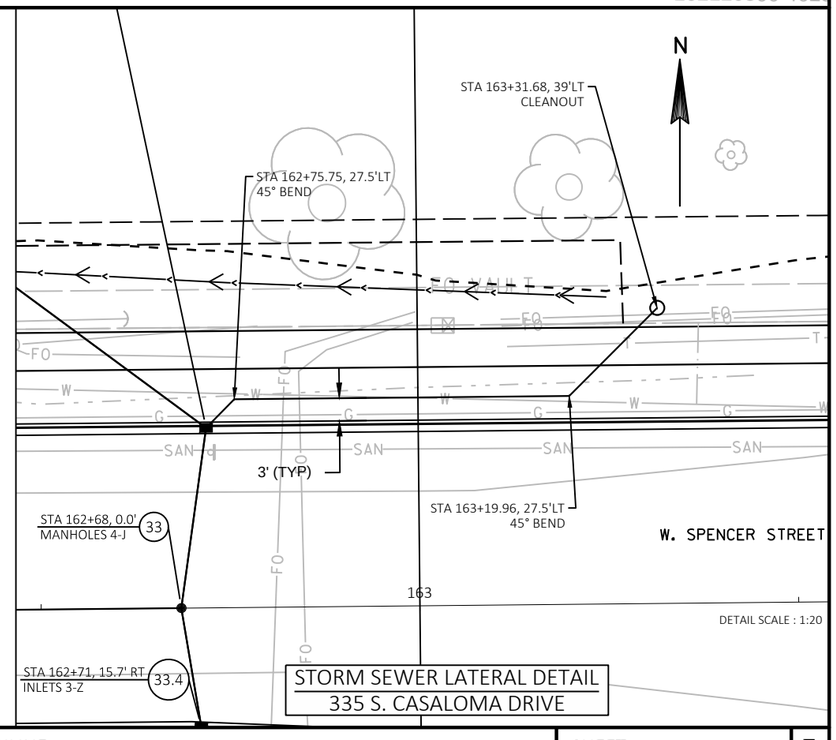




PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 38 E







PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER DETAIL- MAINLINE	SHEET 39	E

2

N

9.3 STA 10+62, 29.5' LT
INLETS 3-C

SLOPE INTERCEPT

MATCH
12'LCW'+12.00

PROPOSED DITCH

STA 122+76, 0.0'
MANHOLES 5-J

LANDSCAPING

PI: 10'LCW'+49.52

EP: 13'LCW'+01.10

ASPH

LONG COURT

11'LCW'+00

12'LCW'+00

13'LCW'+00

STA 122+75, 15.7' RT
INLETS 3-Z

9.4

9.1 STA 10+50, 0.0'
MANHOLES 5-J

PROPOSED DITCH

W. SPENCER STREET

9.2 STA 10+60, 24.0' RT
INLETS 3-C

SLOPE INTERCEPT

1 PIPE UNDERDRAIN
WRAPPED 6-INCH
(SEE CONSTRUCTION DETAIL)

101126402
LONG CT
WENDT, PATRICIA M

101126400
203 S LONG CT
WENDT, PATRICIA M

101130400
5601 W SPENCER ST
HAMMEN, MATTHEW J
HAMMEN, SARA C

102094500
222 S LONG
CAMPBELL W
CAMPBELL R

101130
5537 W
KUEHL,
KUEHL

VCL = 105.00
K = 81.57

EXIST CL PROFILE

VPI STA 10+91.00
VPI EL 806.60

VPT STA 11+43.50
VPT EL 808.33

VPC STA 11+60.01
VPC EL 808.87

VPI STA 11+85.00
VPI EL 809.69

VPT STA 12+10.01
VPT EL 809.84

VCL = 50.00
K = 18.67

STA 10+00.00
EL 805.70

STA 10+23.00
EL 805.24

VPC STA 10+38.50
VPC EL 805.55

STA 12+12.00
EL 809.85

PROPOSED R/L

805.69

805.79

800.79

800.69

50' SSPRC CLASS IV 24-INCH @ 0.20%

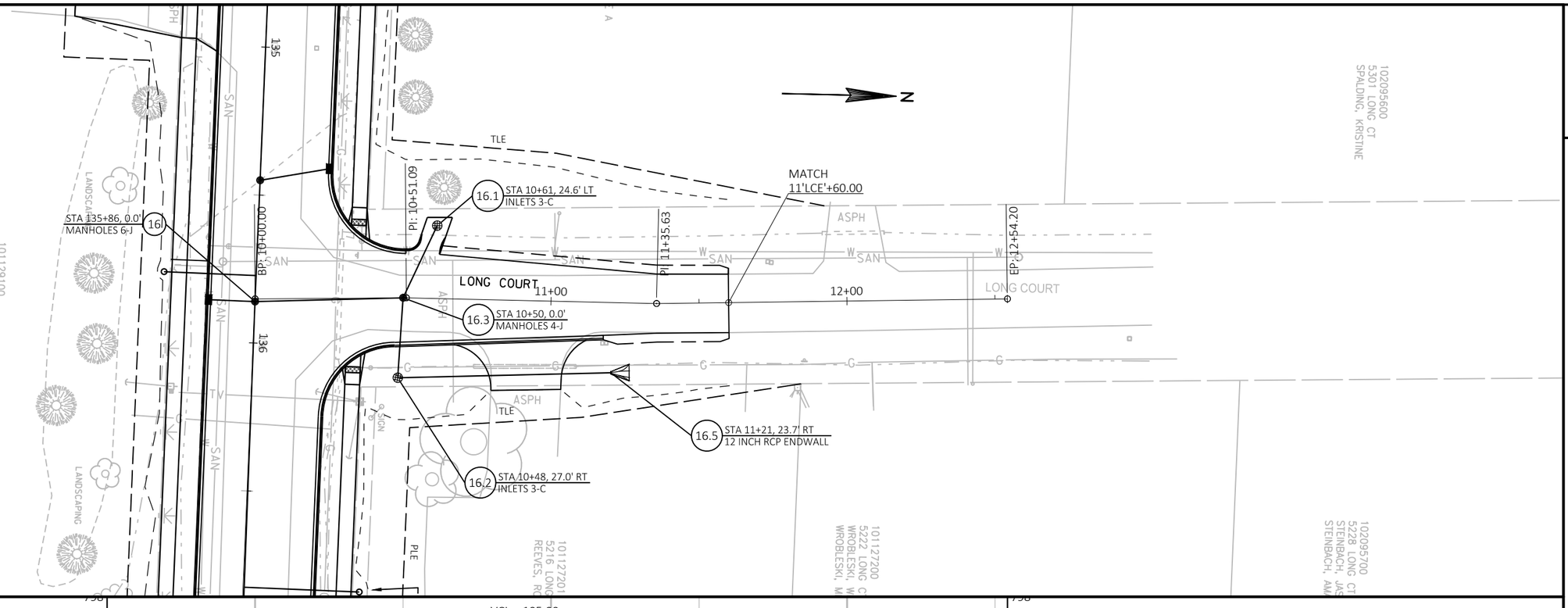
808.75 805.70 | 808.52 805.79 | 808.89 807.01 | 809.42 808.54 | 809.81 809.75 | 809.99 | 810.17

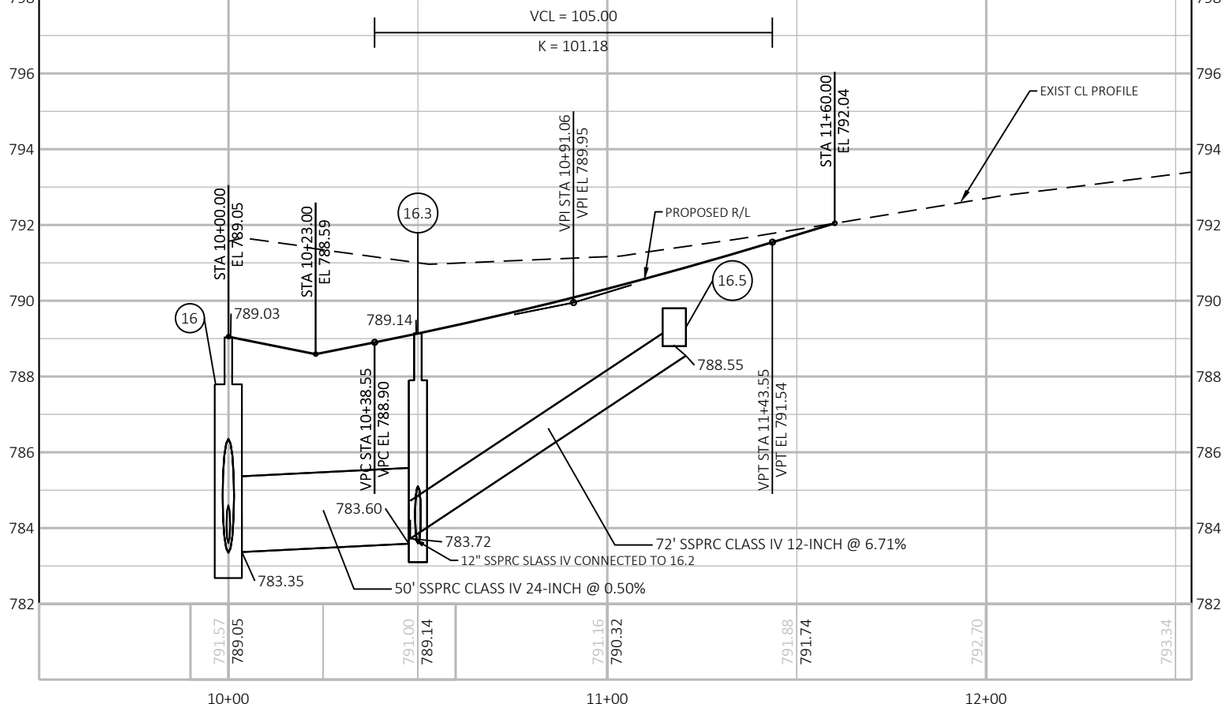
812 810 808 806 804 802 800 798

10+00 11+00 12+00 13+00

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STORM SEWER DETAIL - SIDEROAD MAINLINE	SHEET 40	E

2



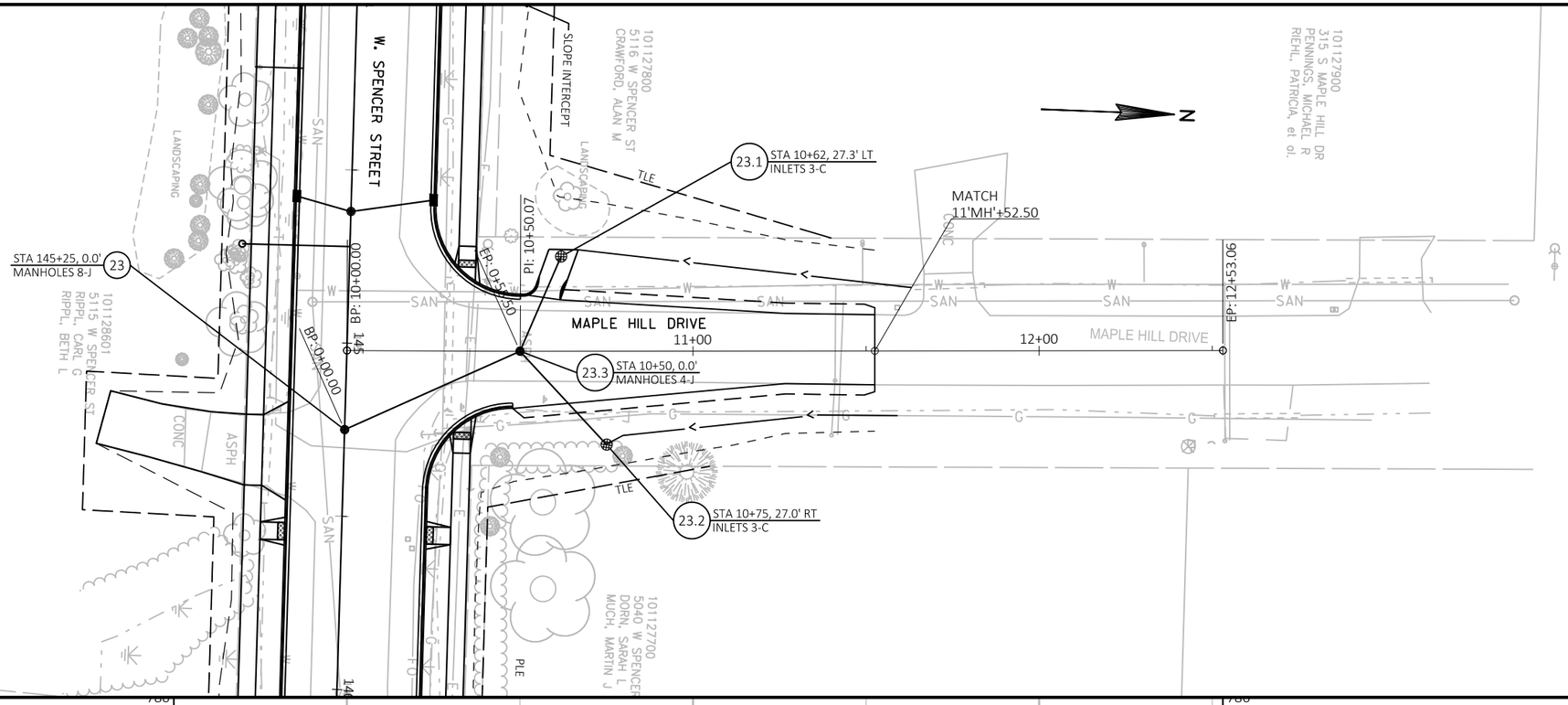


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STORM SEWER DETAIL - SIDEROAD MAINLINE	SHEET 41 E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-SIDEROAD-P&P STORM SEWER.DWG
LAYOUT NAME - LCE PP

PLOT DATE : 12/21/2018 9:08 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STORM SEWER DETAIL - SIDEROAD MAINLINE	SHEET 42	E

2

N

ADJUST INLET
EX. FL= 776.40
PROPOSED FL= 776.12

STA 9+56, 15.5' LT
INLETS 2x3-H-S
26.2

MATCH
8'WR'+74.99

BP: 7'WR'+00.00

8'WR'+00

9'WR'+00

WILD ROSE LANE

EP: 10'WR'+00.00

149

150

PROPOSED DITCH

SLOPE INTERCEPT

ADJUST MH

STA 9+59, 15.5' RT
INLETS 2x3-H-S
26.1

ADJUST INLET
EX. FL= 776.37
PROPOSED FL= 776.12

STA 150+21, 0.0'
MANHOLES 8-J
26

W. SPENCER STREET

STA 10+61, 23.1' LT
INLETS 3-C
29.1

EXIST CL PROFILE

PROPOSED R/L

STA 8+75.00
EL 776.60

STA 8+80.00
VPC EL 776.62

STA 8+95.00
VPI EL 776.70

STA 9+10.00
VPT EL 776.40

STA 9+15.00
EL 776.30

STA 9+85.00
EL 774.90

STA 10+00.00
EL 775.20

776.58

PROP OSED RIM 776.38

VCL = 30.00

K = 11.89

775.14

775.15

775.02

770.81

770.65

770.65

770.39

31' SSPRC CLASS IV 12-INCH @ 0.50%

52' SSPRC CLASS IV 12-INCH @ 0.50%

EX. 12" STO

772.00

776.32 776.49 776.77 776.56 777.16 775.60 777.63 775.20

780 778 776 774 772 770 768 766

8+00 9+00 10+00

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STORM SEWER DETAIL - SIDEROAD MAINLINE	SHEET 43	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-SIDEROAD-P&P STORM SEWER.DWG
LAYOUT NAME - WR PP

PLOT DATE : 12/21/2018 9:08 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

EX. FL= 776.37
PROPOSED FL= 776.12

MANHOLES 8-J (26)

SPENCER STREET

102313700
602 S WILD ROSE LA
CATHERINE M CALLAWAY

102313600
600 S WILD ROSE LA
BARILE, NICHOLAS M
BARILE, ERIN B

101127604
533 S MISTY LA T
DUCHSTONE SENIOR SERVICES LLC

102098700
W SPENCER ST
CALNIN & GOS

102246200
603 S GOLDENROD D
BOYDSTUN, NED H

102246100
601 S GOLDENROD
RYAN, ANDREW R
RYAN, MICHELLE L

29.1 STA 10+61, 23.1' LT
INLETS 3-C

PROPOSED DITCH MATCH 11'MT'+12.22

EP: 11+55.20

11+00

MISTY LANE

STA 151+42, 0.0'
MANHOLE 8'x8'-J (28)

STA 151+53, 7.0' LT
MANHOLES 4-J (51)

SLOPE INTERCEPT

PROPOSED DITCH

DITCH BY OTHERS

** STORM SEWER 43 X 68 -INCH NORTH OF STRUCTURE 29 TO BE CONSTRUCTED BY OTHERS AS PART OF A SEPARATE TOWN OF GRAND CHUTE PROJECT

29 STA 10+54, 28.7' RT
MANHOLE 8'x8'-C

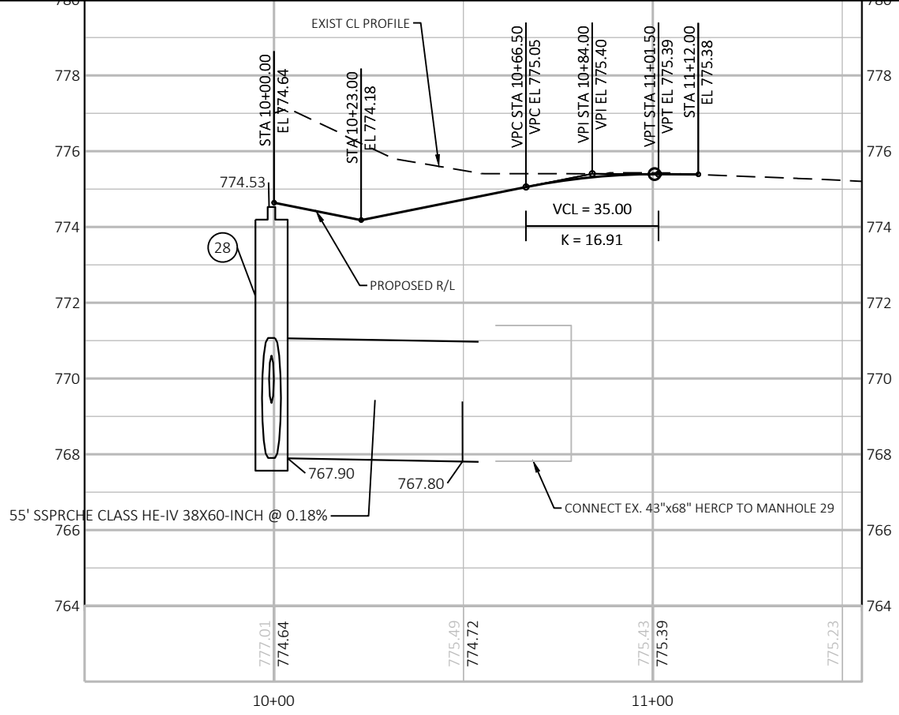
51 A STA 151+52, 29.5' LT
18-INCH TIE INTO EXISTING

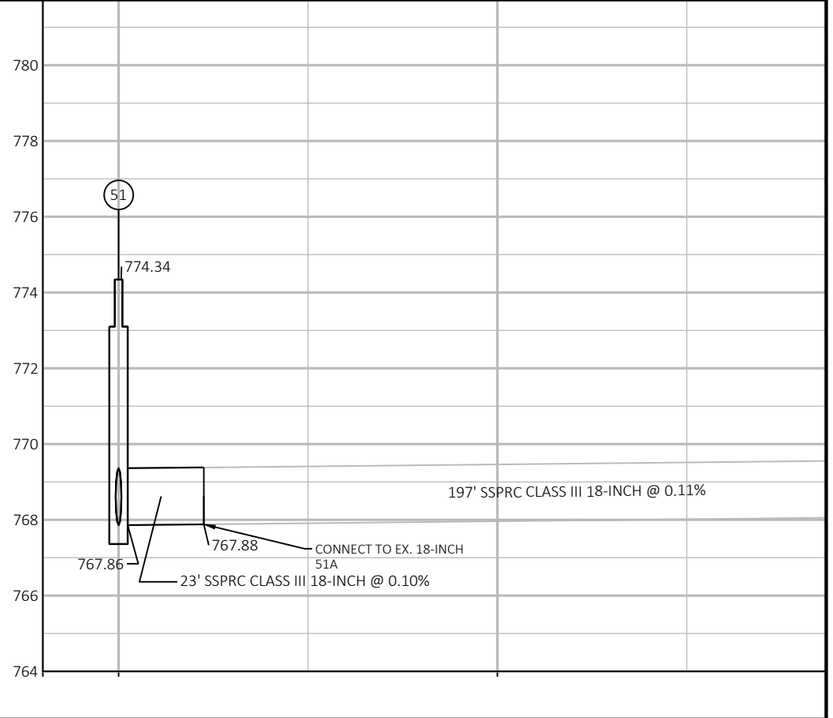
STORM SEWER BY OTHERS

STA 152+38, 15.7' RT (32.1)

152

N



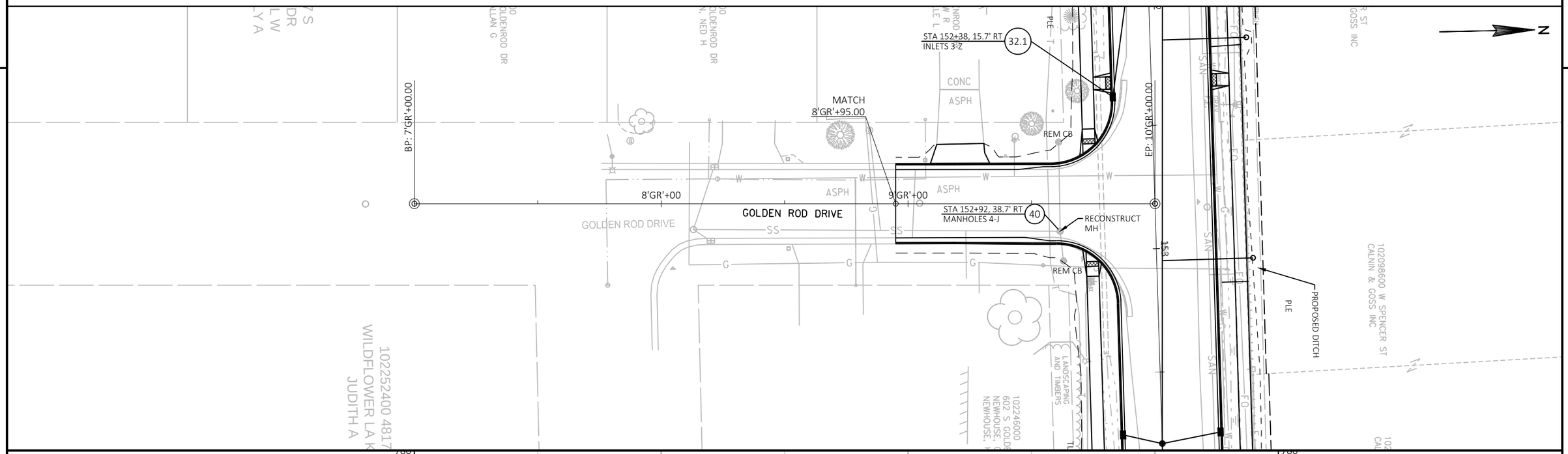


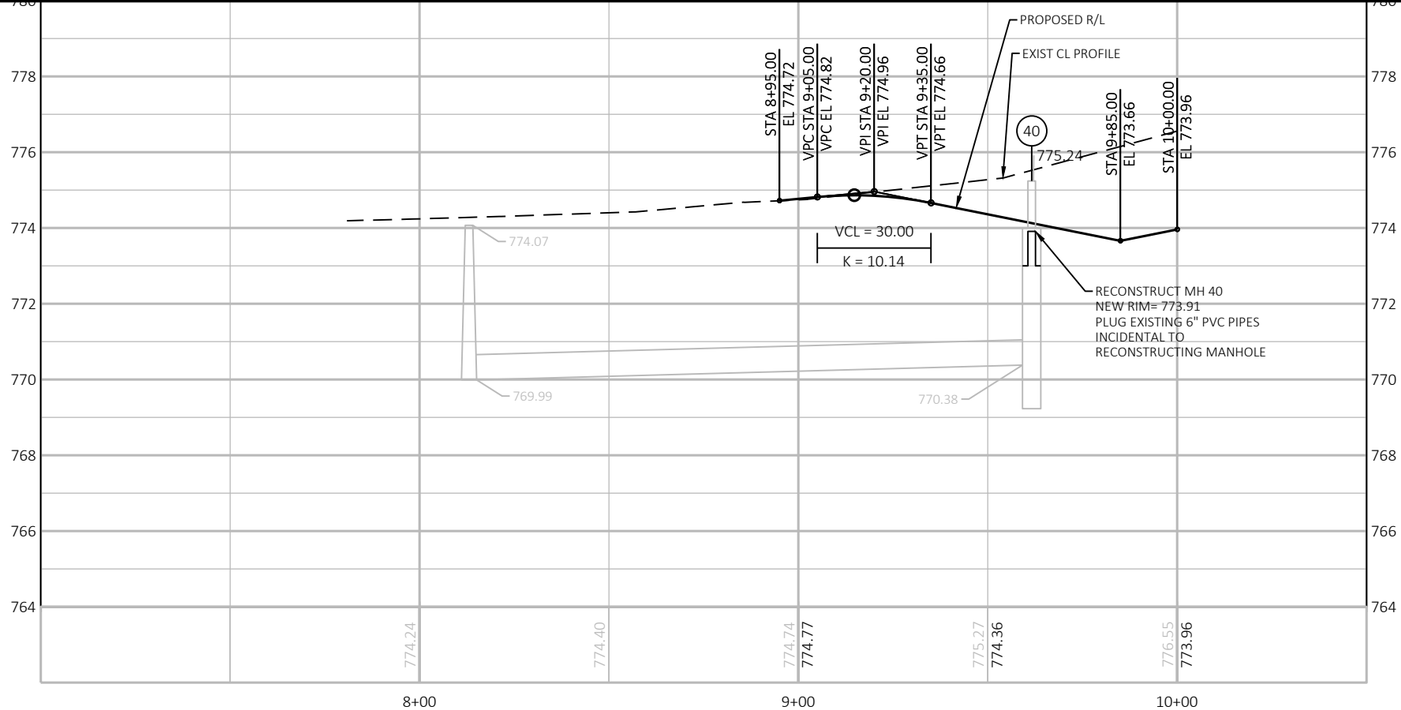
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STORM SEWER DETAIL - SIDEROAD MAINLINE	SHEET 44	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-SIDEROAD-P&P STORM SEWER.DWG
LAYOUT NAME - MT PP

PLOT DATE : 12/21/2018 9:08 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

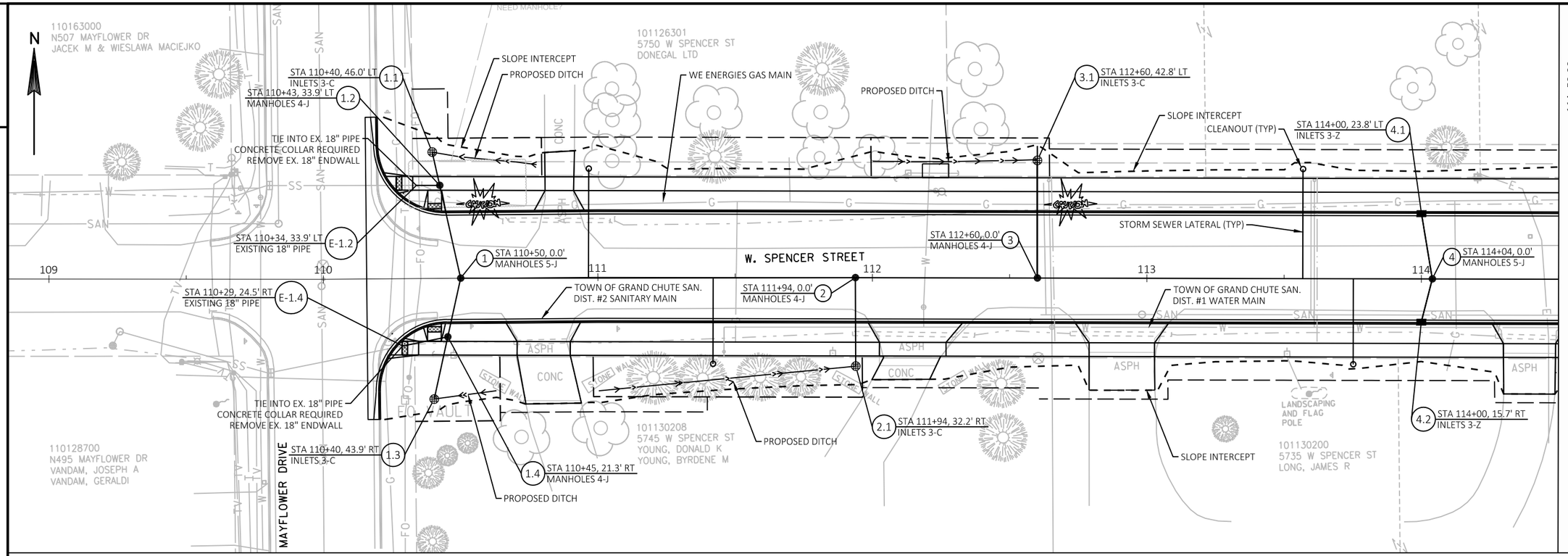


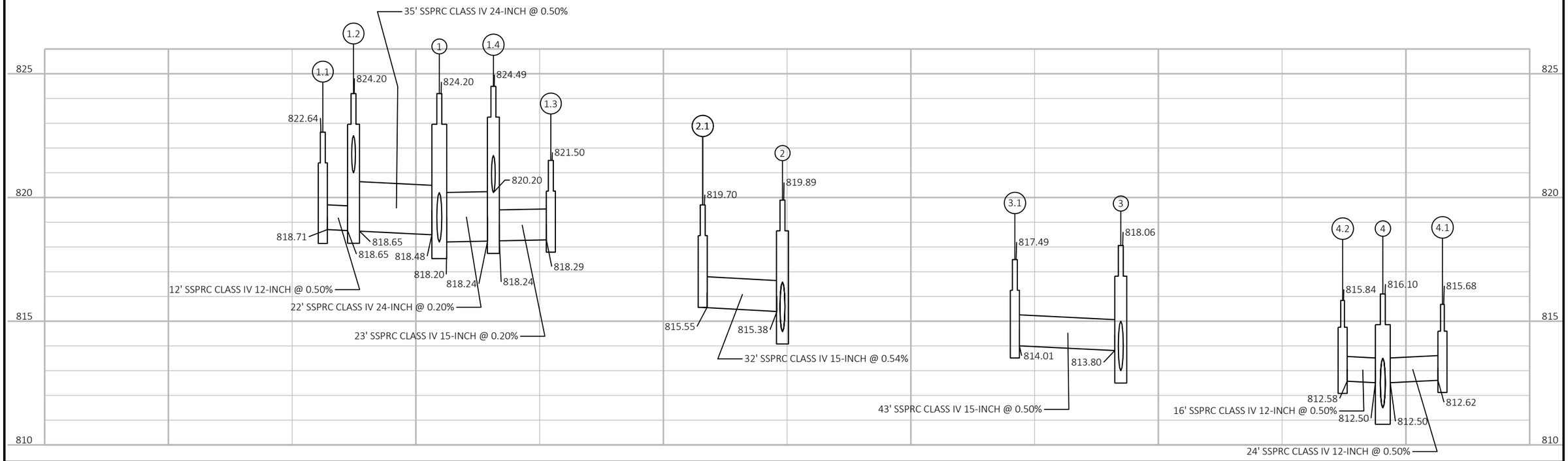


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: STORM SEWER DETAIL - SIDEROAD MAINLINE	SHEET 45	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-SIDEROAD-P&P STORM SEWER.DWG
LAYOUT NAME - GR PP

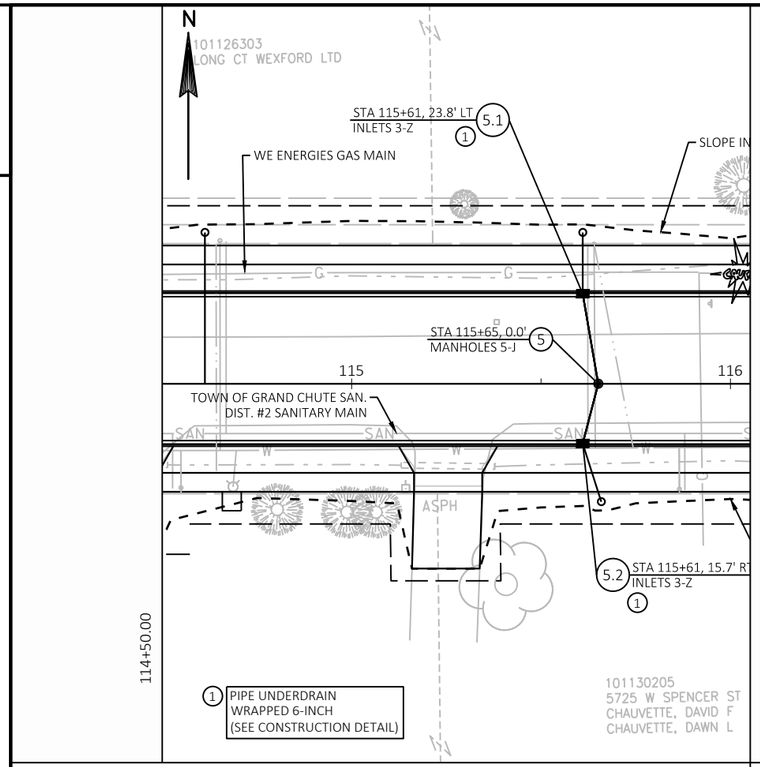
PLOT DATE : 12/21/2018 9:08 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

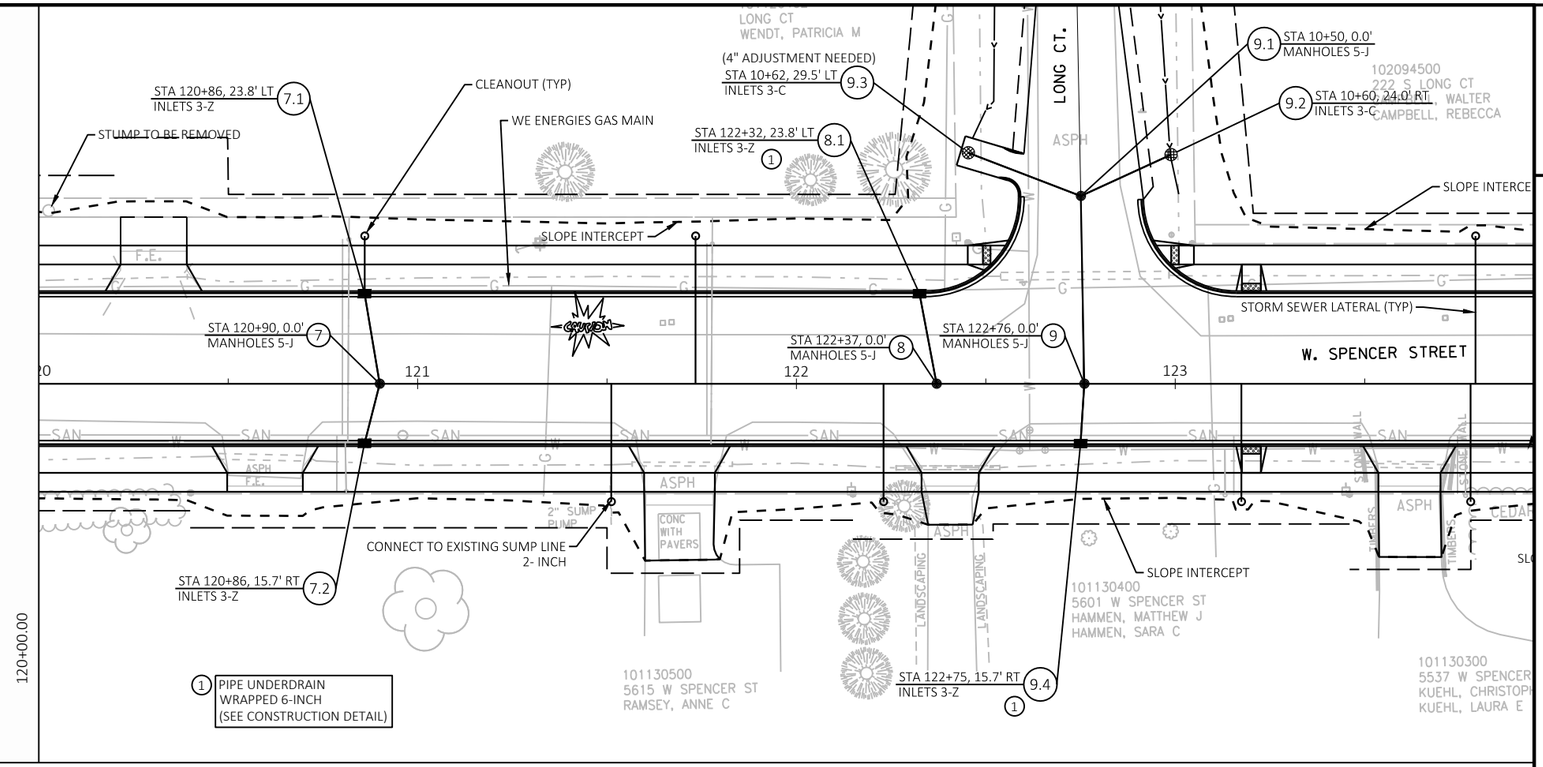


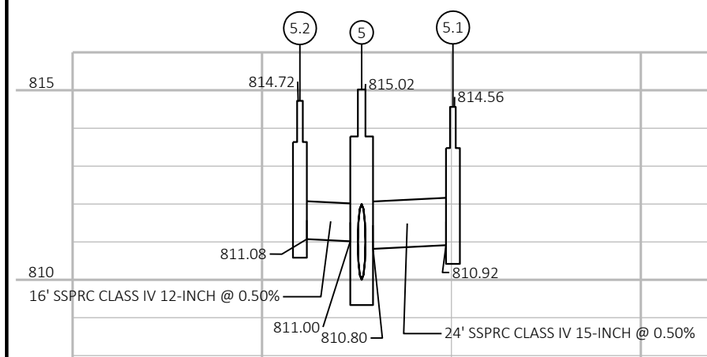


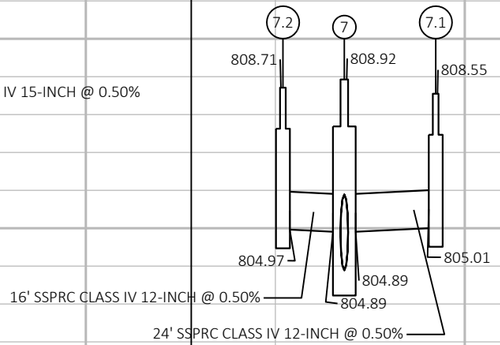
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 46	E

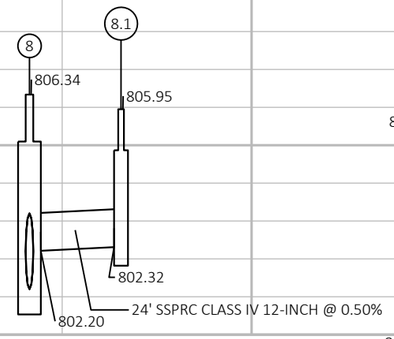
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 109+50.00 LEADS
PLOT DATE : 12/21/2018 9:08 AM
PLOT BY : CHRIS CLEMENS
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42

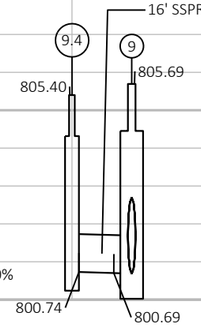


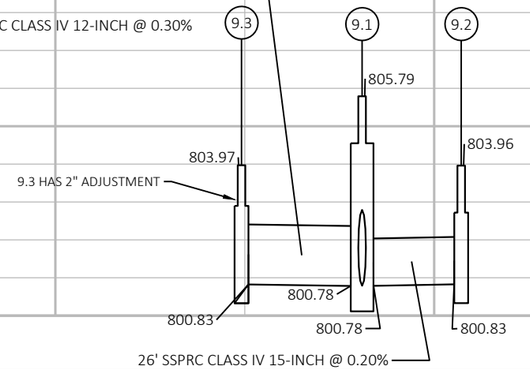






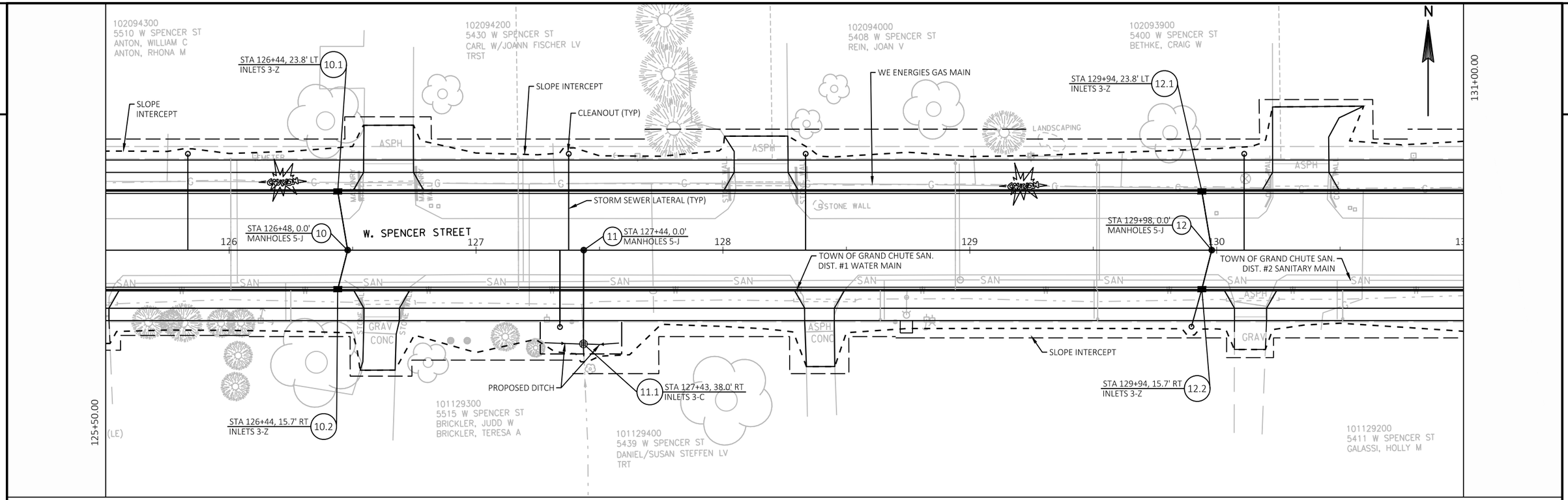


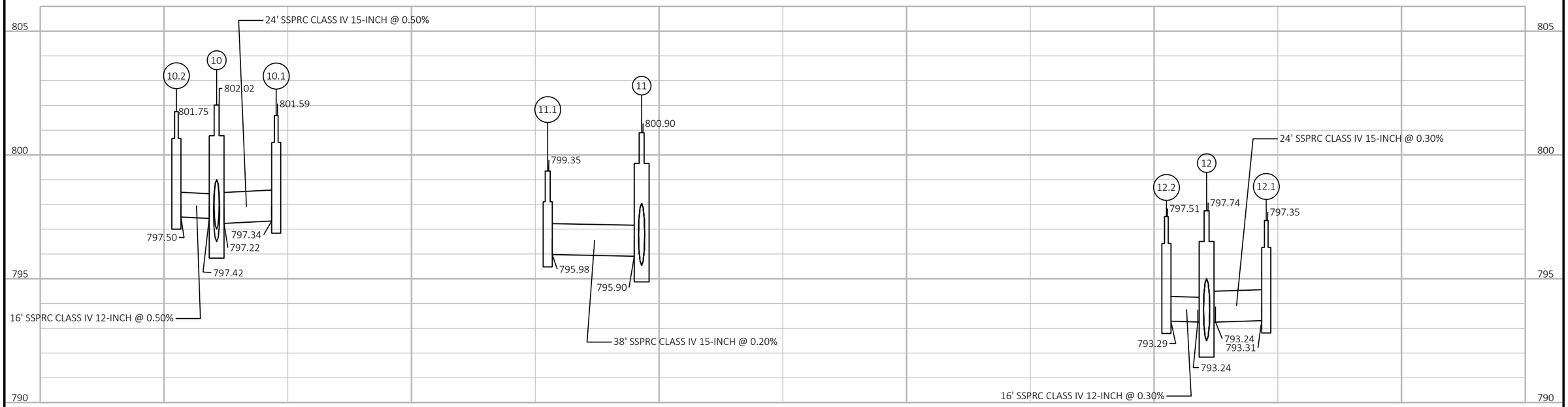




PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 47	E

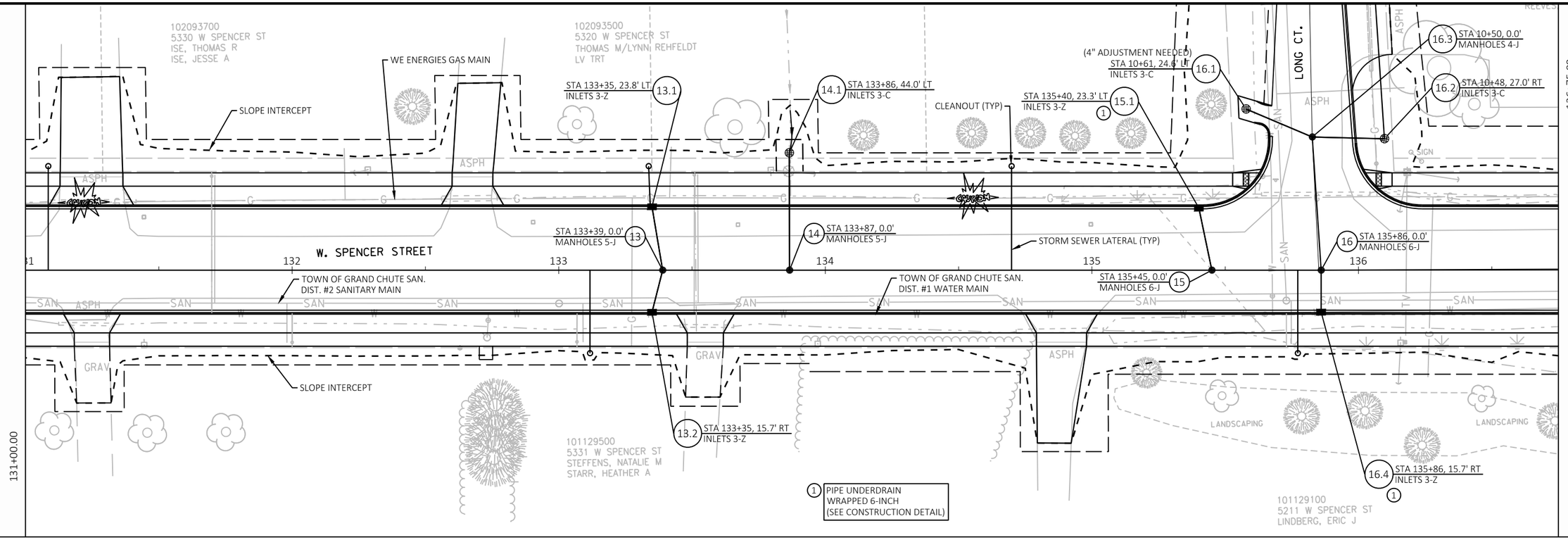
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 114+50.00 LEADS
PLOT DATE : 12/21/2018 9:09 AM
PLOT BY : CHRIS CLEMENS
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42

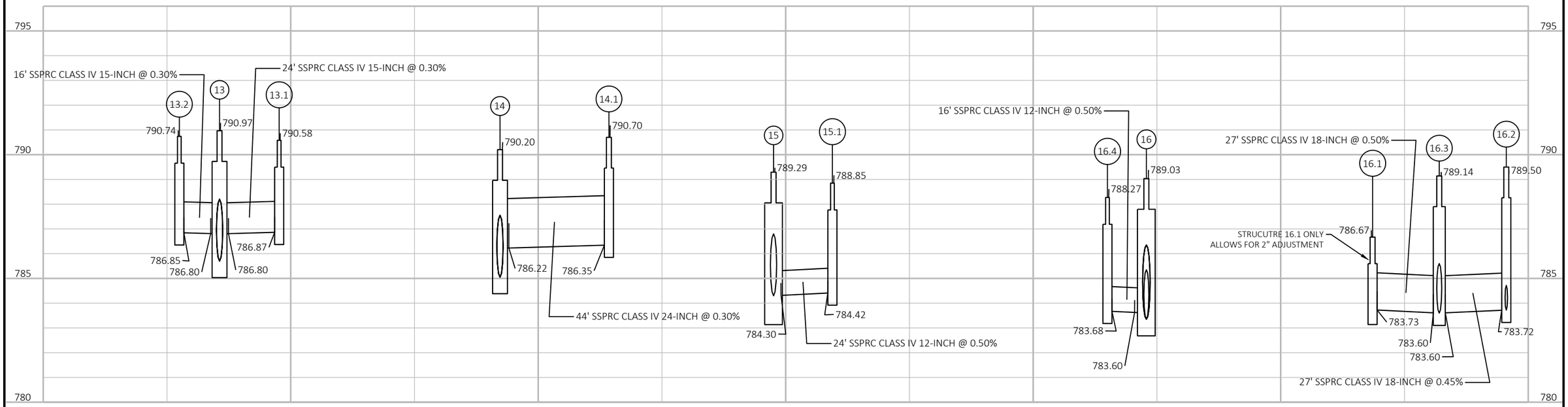




PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 48	E

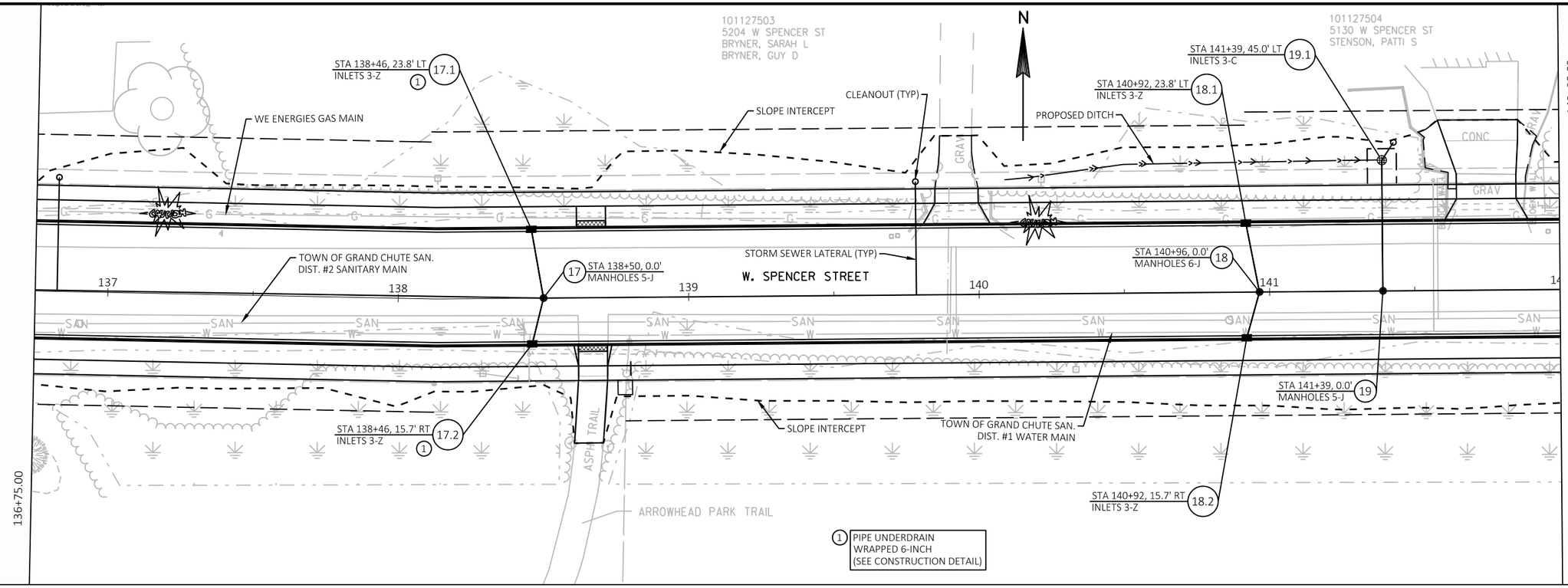
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 125+50.00 LEADS
PLOT DATE : 12/21/2018 9:09 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

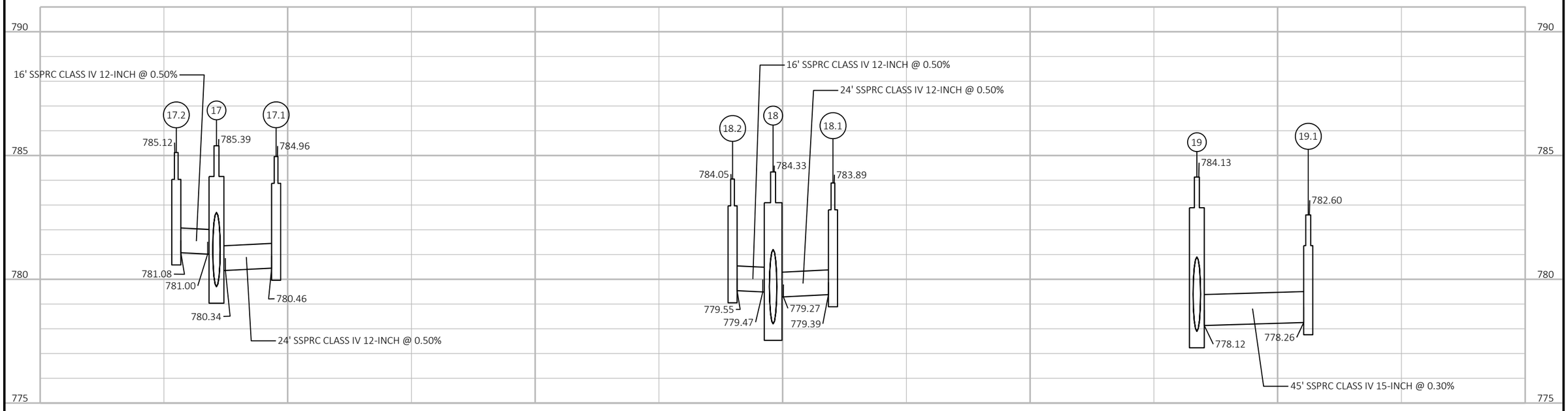




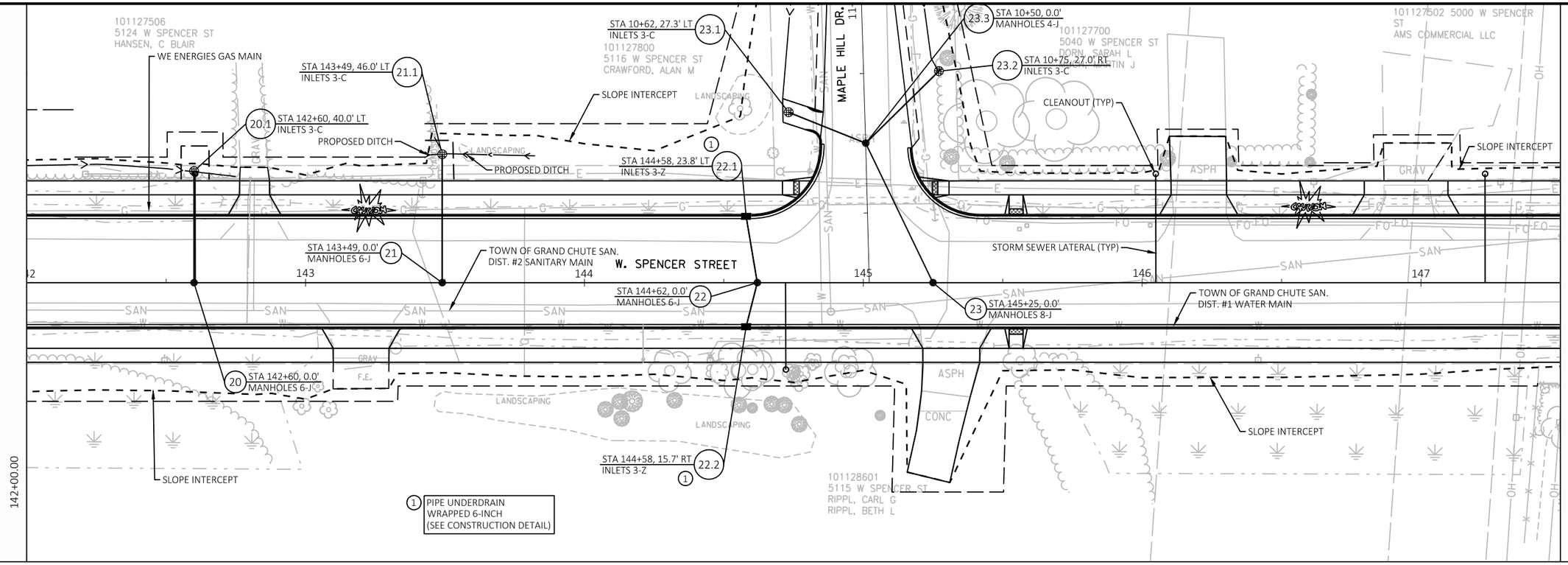
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 49	E

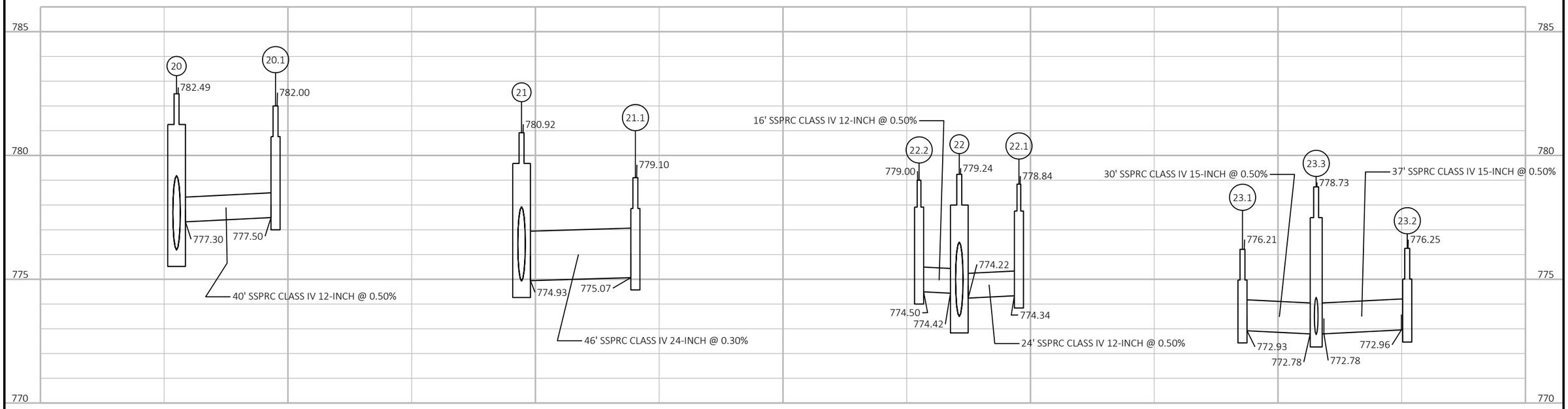
2





PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 50	E





PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN: STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 51	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 142+00 LEADS

PLOT DATE : 12/21/2018 9:09 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

2

STA 148+11, 43.0' LT
INLETS 3-C
24.1

STA 148+15, 23.8' LT
INLETS 3-Z
1
24.2

PROPOSED DITCH

WE ENERGIES GAS MAIN

TOWN OF GRAND CHUTE SAN.
DIST. #2 SANITARY MAIN

CLEANOUT (TYP)

SLOPE INTERCEPT

STA 148+19, 0.0'
MANHOLES 8-J
24

W. SPENCER STREET

STA 150+21, 0.0'
MANHOLES 8-J
26

STA 10+61, 23.1' LT
INLETS 3-C
29.1

STA 150+75, 23.8' LT
INLETS 3-Z
27.1

STA 150+79, 0.0'
MANHOLES 8-J
27

MISTY LANE

STORM SEWER BY OTHERS

**

STA 10+54, 28.7' RT
MANHOLE 8'x8'-C
29

STA 151+52, 29.5' LT
18-INCH TIE INTO EXISTING
51 A

SLOPE INTERCEPT

TOWN OF GRAND CHUTE SAN.
DIST. #1 WATER MAIN

STA 151+53, 7.0' LT
MANHOLES 4-J
51

STA 151+42, 0.0'
MANHOLE 8'x8'-J
28

STORM SEWER LATERAL (TYP)

SLOPE INTERCEPT

STA 152+38, 15.7' RT
INLETS 3-Z
32.1

STA 152+92, 38.7' RT
MANHOLES 4-J
40

STA 148+15, 15.7' RT
INLETS 3-Z
1
24.3

STA 9+56, 15.5' LT
INLETS 2x3-H-S
26.2

STA 9+59, 15.5' RT
INLETS 2x3-H-S
26.1

WILD ROSE LANE

GOLDEN ROD DRIVE

147+50.00

153+00.00

148 149 150 151 152

101127603
4960 W SPENCER ST
VANGRINSVEN, CARL J
VANGRINSVEN, WANDA J

101127604
333 S MISTY LA T
OUCHSTONE SENIOR SERVICES
LLC

102098700
W SPENCER ST
CALNIN & GOSS INC

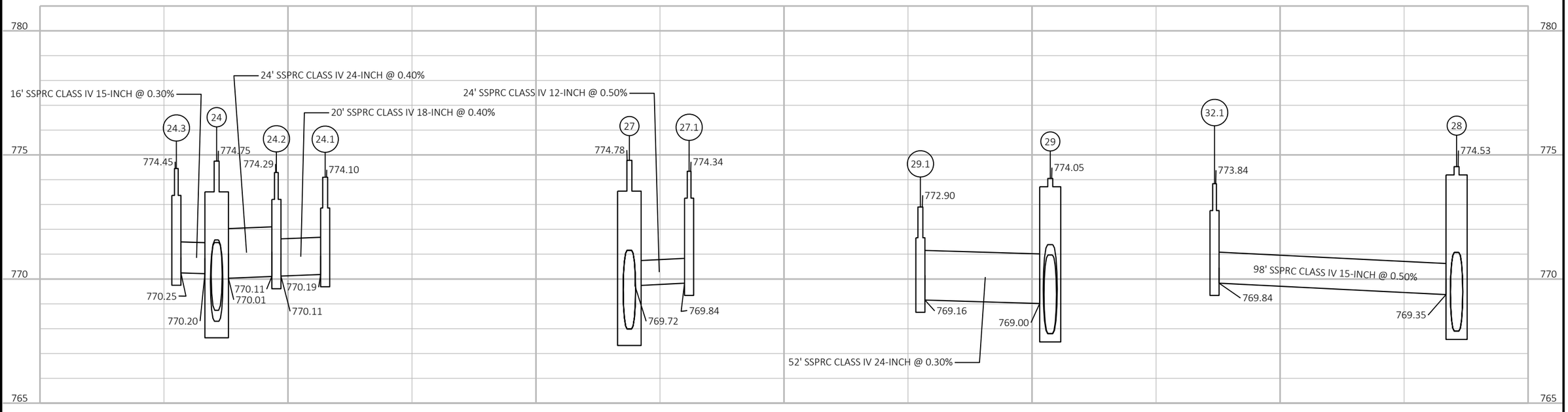
102316300
601 S WILD ROSE LA
SCHIMMELPFENNING, JERRY
SCHIMMELPFENNING, BARB

102313600
600 S WILD ROSE LA
BARILE, NICHOLAS M
BARILE, ERIN B

102246100
601 S GOLDENROD DR
RYAN, ANDREW R
RYAN, MICHELLE L

1 PIPE UNDERDRAIN WRAPPED 6-INCH (SEE CONSTRUCTION DETAIL)

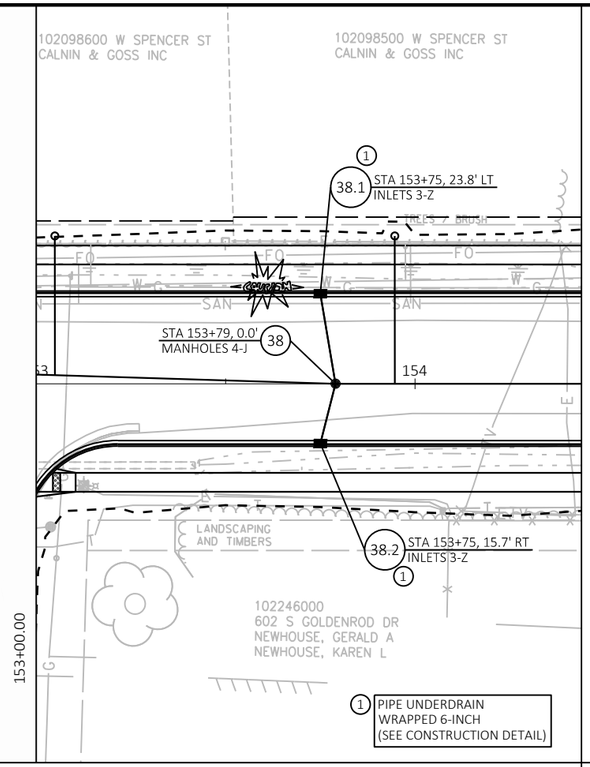
** STORM SEWER 43 X 68 -INCH NORTH OF STRUCTURE 29 TO BE CONSTRUCTED BY OTHERS AS PART OF A SEPARATE TOWN OF GRAND CHUTE PROJECT

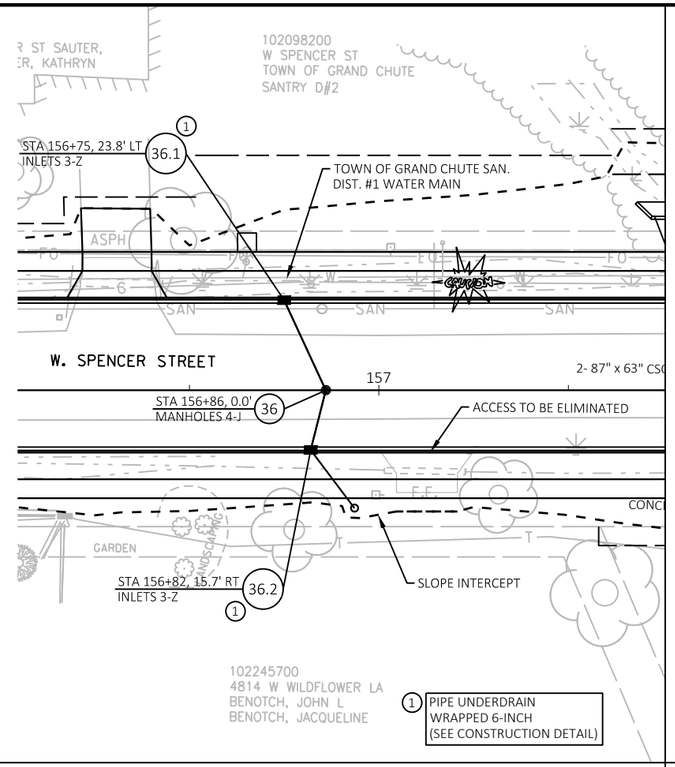


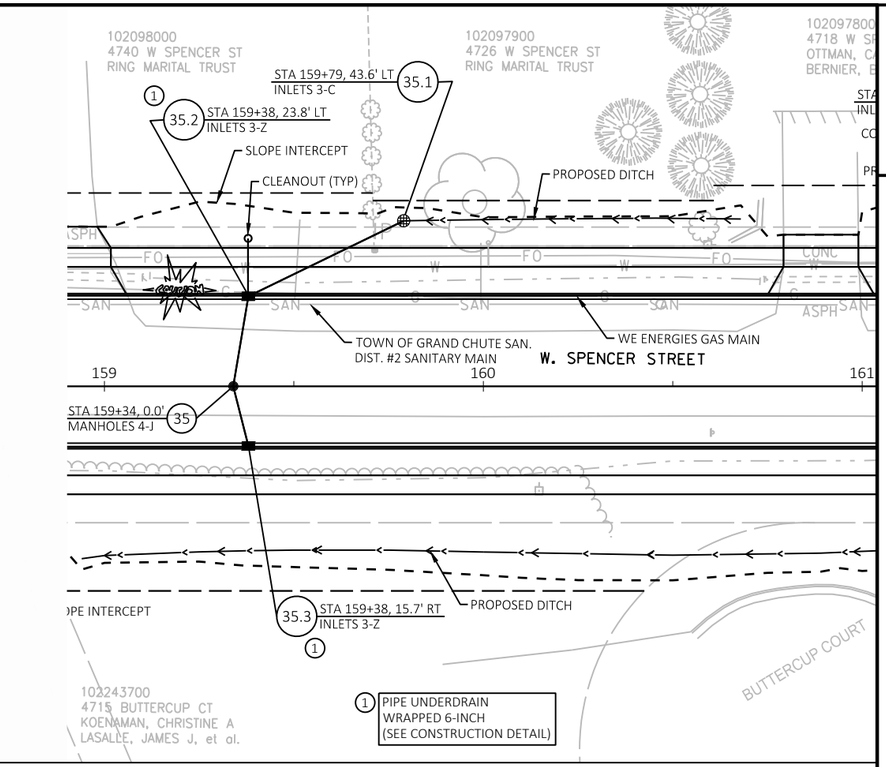
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN: STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 52	E

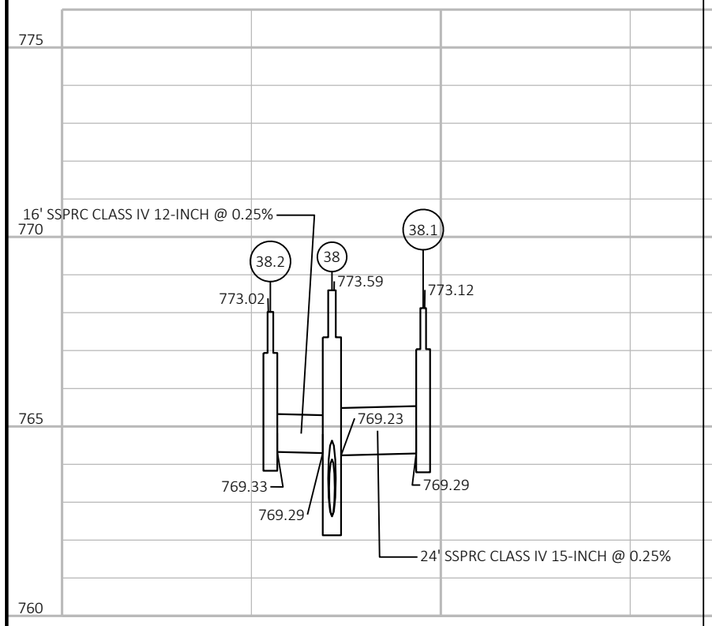
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 147+50 LEADS

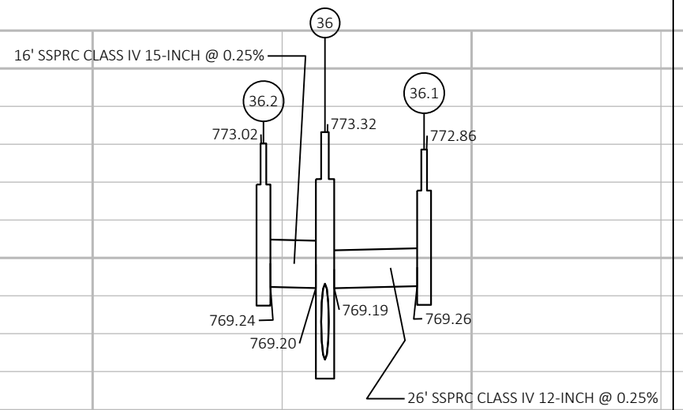
PLOT DATE : 12/21/2018 9:09 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

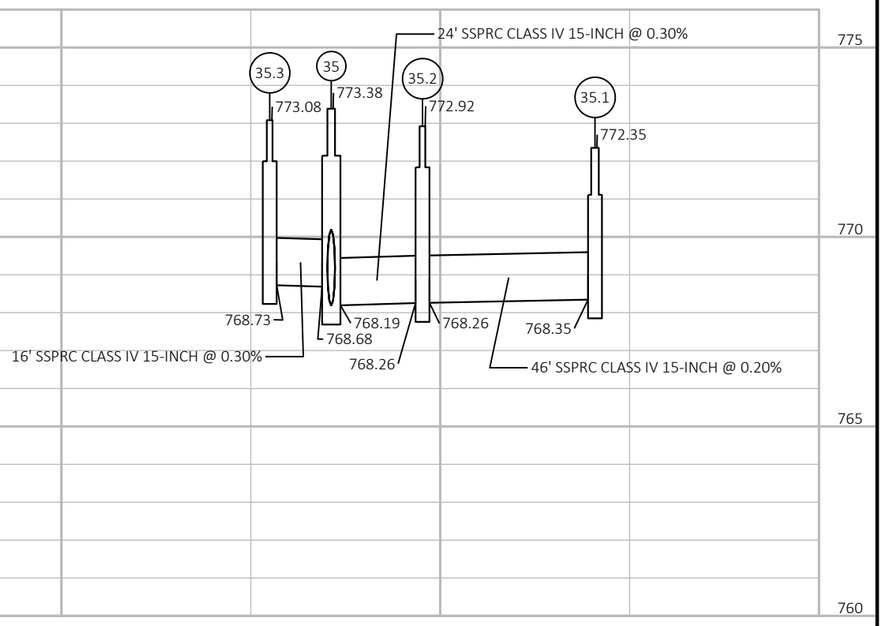






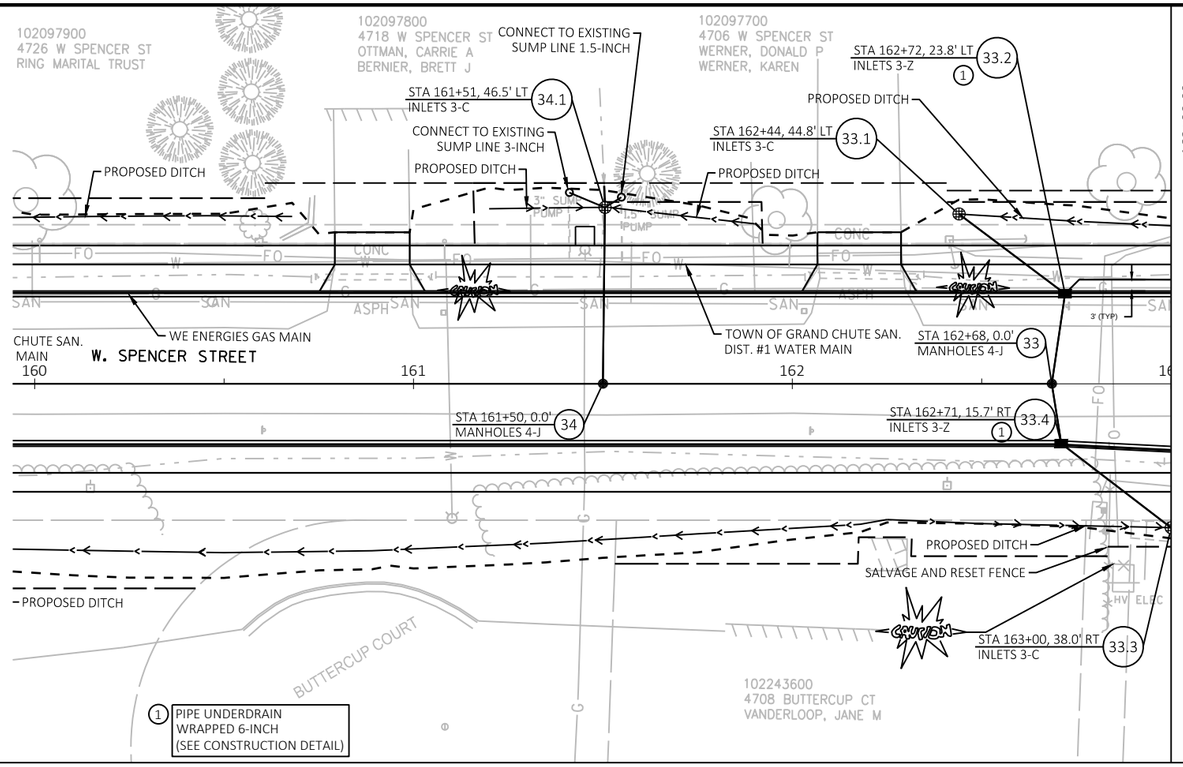




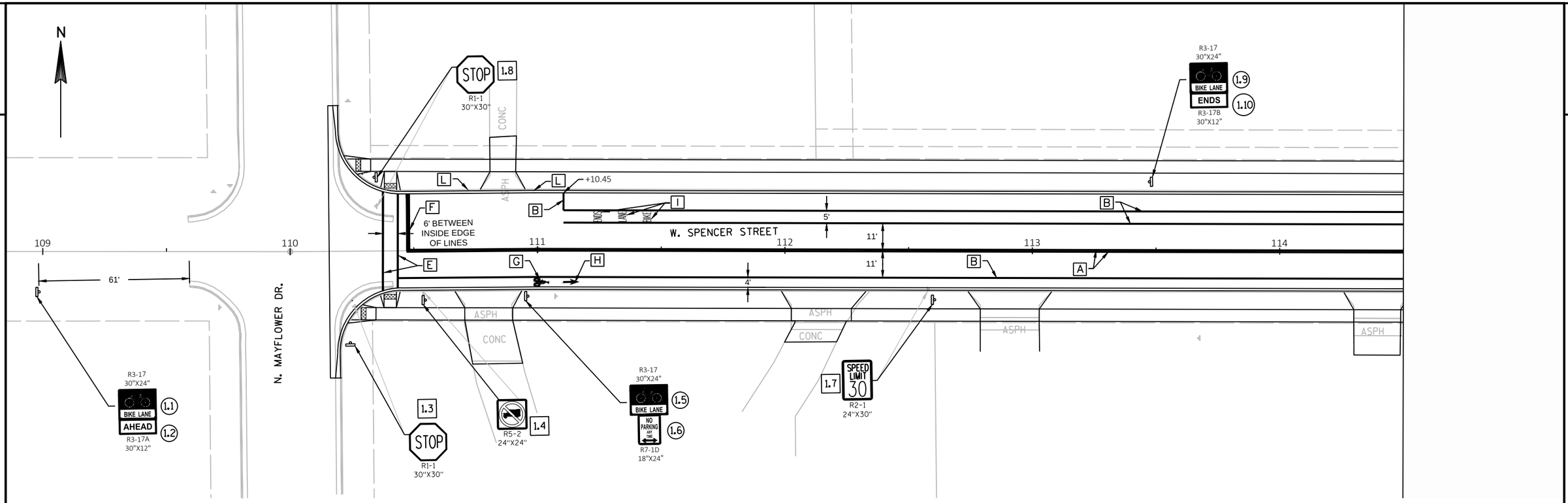


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN: STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 53	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02-SPENCER-PLAN&PROF STORM SEWER.DWG
LAYOUT NAME - 153+00 LEADS
PLOT DATE : 12/21/2018 9:09 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN: STORM SEWER INLET AND INLET LEAD DETAIL	SHEET 54	E



PERMANENT SIGNING LEGEND

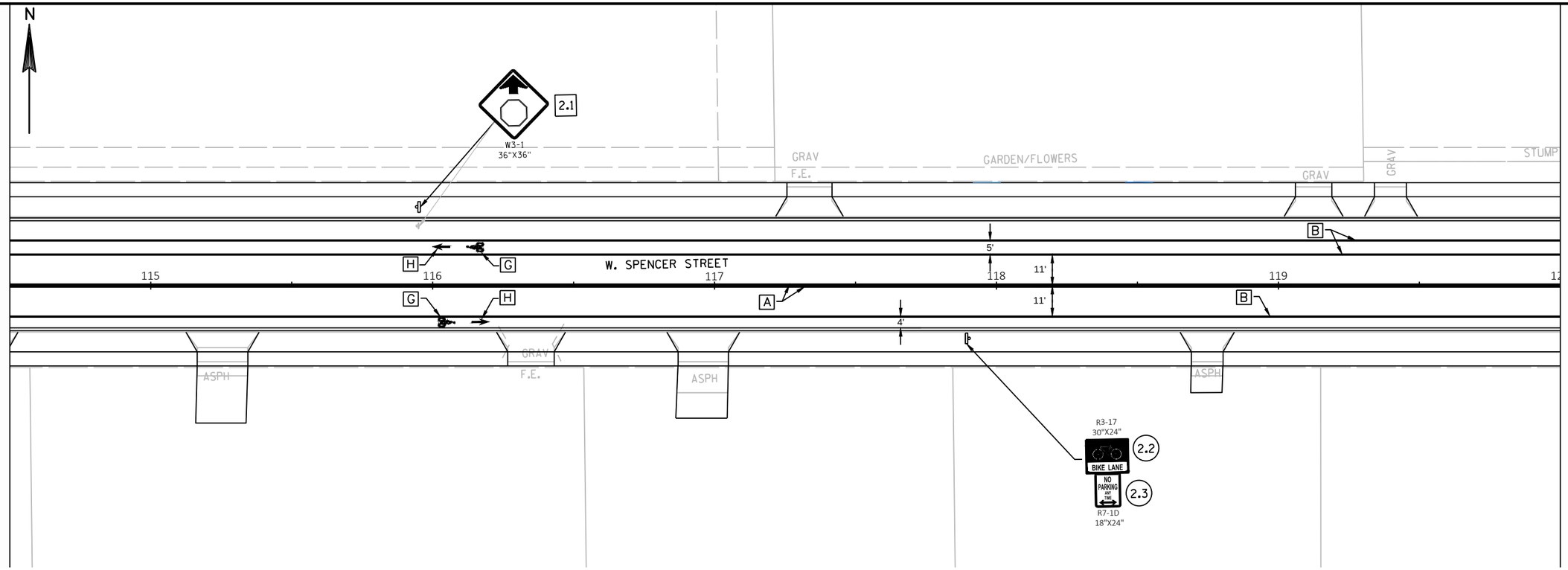
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

A	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	G	MARKING SYMBOL EPOXY BIKE LANE
B	MARKING LINE EPOXY 4–INCH WHITE	H	MARKING ARROW EPOXY BIKE LANE
C	MARKING LINE EPOXY 8–INCH WHITE	I	MARKING WORD EPOXY BIKE LANE
D	MARKING WORD EPOXY	J	MARKING ARROW EPOXY TYPE 2
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	K	MARKING ARROW EPOXY TYPE 3
F	MARKING STOP LINE EPOXY 12–INCH	L	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

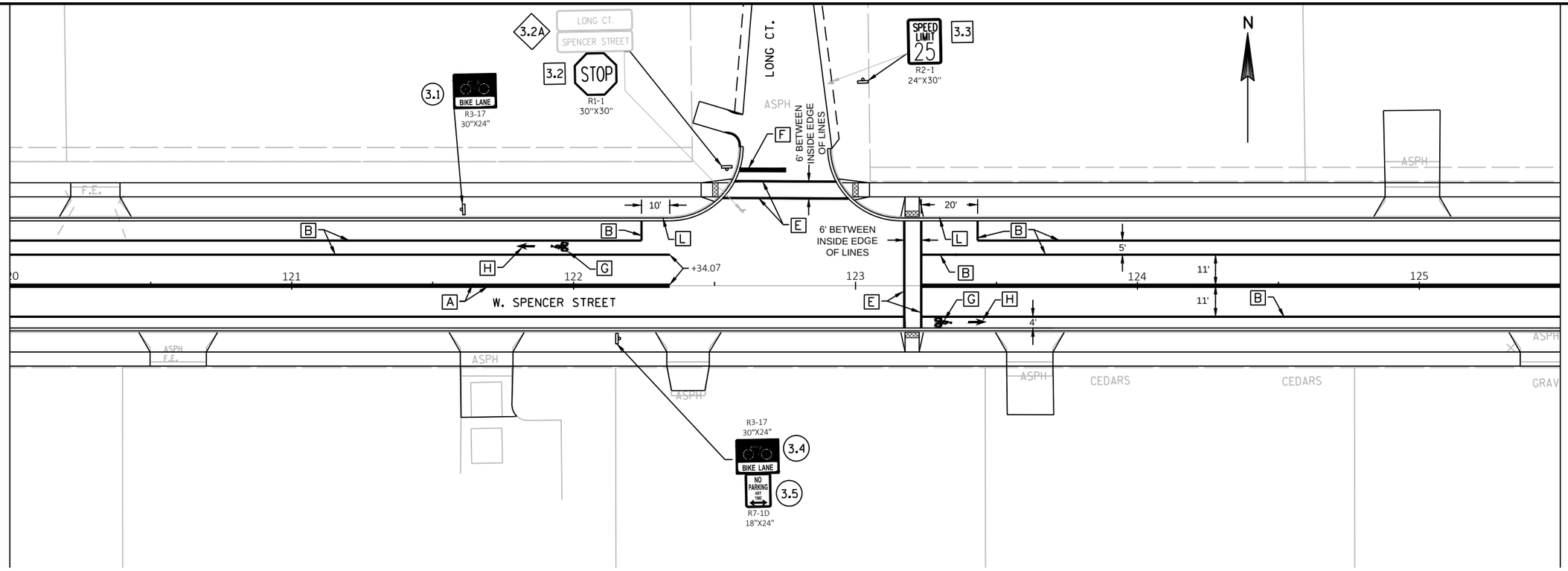
- X.X — SIGN - NEW
- X.X — SIGN - REMOVE AND REPLACE
- X.X — SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

A	MARKING LINE EPOXY 4-INCH DOUBLE YELLOW	G	MARKING SYMBOL EPOXY BIKE LANE
B	MARKING LINE EPOXY 4-INCH WHITE	H	MARKING ARROW EPOXY BIKE LANE
C	MARKING LINE EPOXY 8-INCH WHITE	I	MARKING WORD EPOXY BIKE LANE
D	MARKING WORD EPOXY	J	MARKING ARROW EPOXY TYPE 2
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	K	MARKING ARROW EPOXY TYPE 3
F	MARKING STOP LINE EPOXY 12-INCH	L	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4-FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

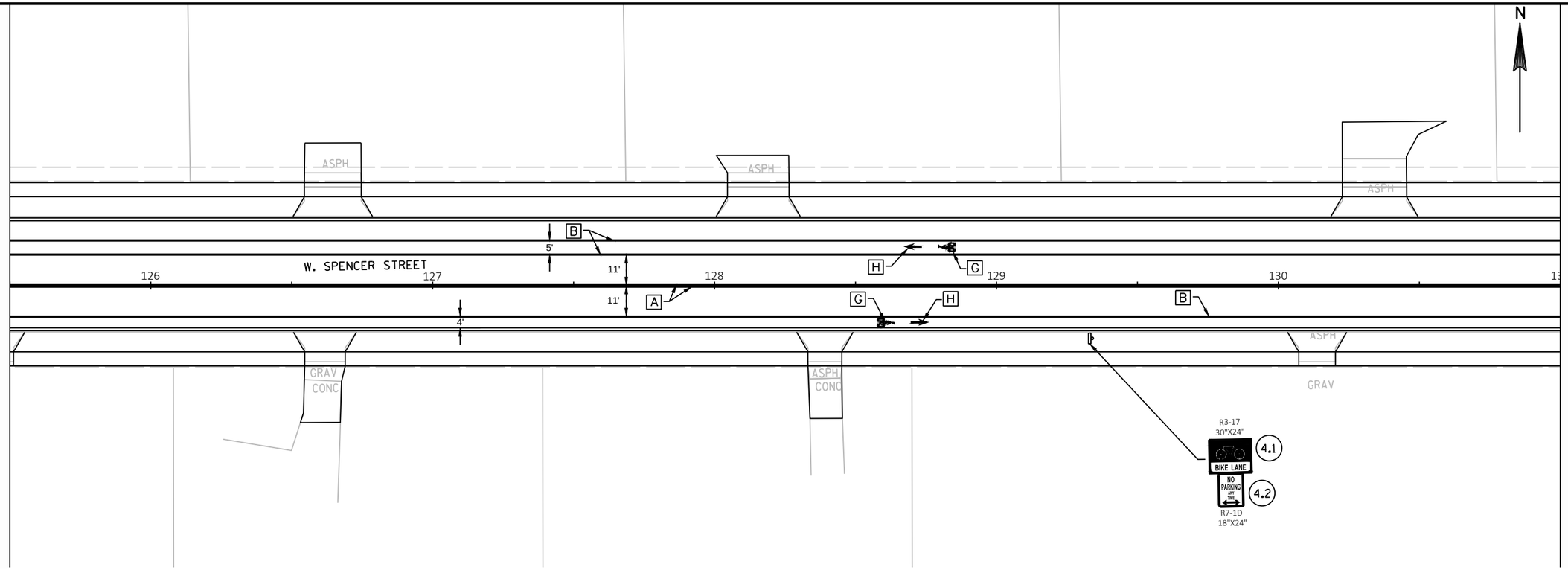
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

A	MARKING LINE EPOXY 4-INCH DOUBLE YELLOW	G	MARKING SYMBOL EPOXY BIKE LANE
B	MARKING LINE EPOXY 4-INCH WHITE	H	MARKING ARROW EPOXY BIKE LANE
C	MARKING LINE EPOXY 8-INCH WHITE	I	MARKING WORD EPOXY BIKE LANE
D	MARKING WORD EPOXY	J	MARKING ARROW EPOXY TYPE 2
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	K	MARKING ARROW EPOXY TYPE 3
F	MARKING STOP LINE EPOXY 12-INCH	L	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4-FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

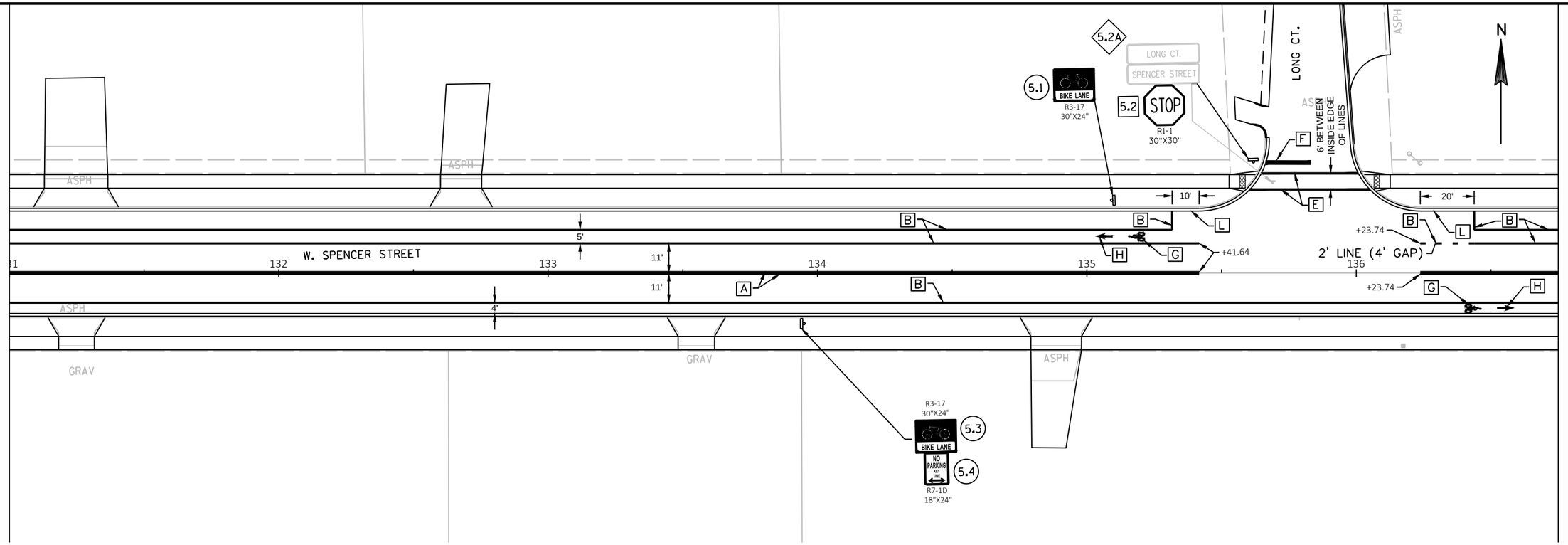
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

[A]	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	[G]	MARKING SYMBOL EPOXY BIKE LANE
[B]	MARKING LINE EPOXY 4–INCH WHITE	[H]	MARKING ARROW EPOXY BIKE LANE
[C]	MARKING LINE EPOXY 8–INCH WHITE	[I]	MARKING WORD EPOXY BIKE LANE
[D]	MARKING WORD EPOXY	[J]	MARKING ARROW EPOXY TYPE 2
[E]	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	[K]	MARKING ARROW EPOXY TYPE 3
[F]	MARKING STOP LINE EPOXY 12–INCH	[L]	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

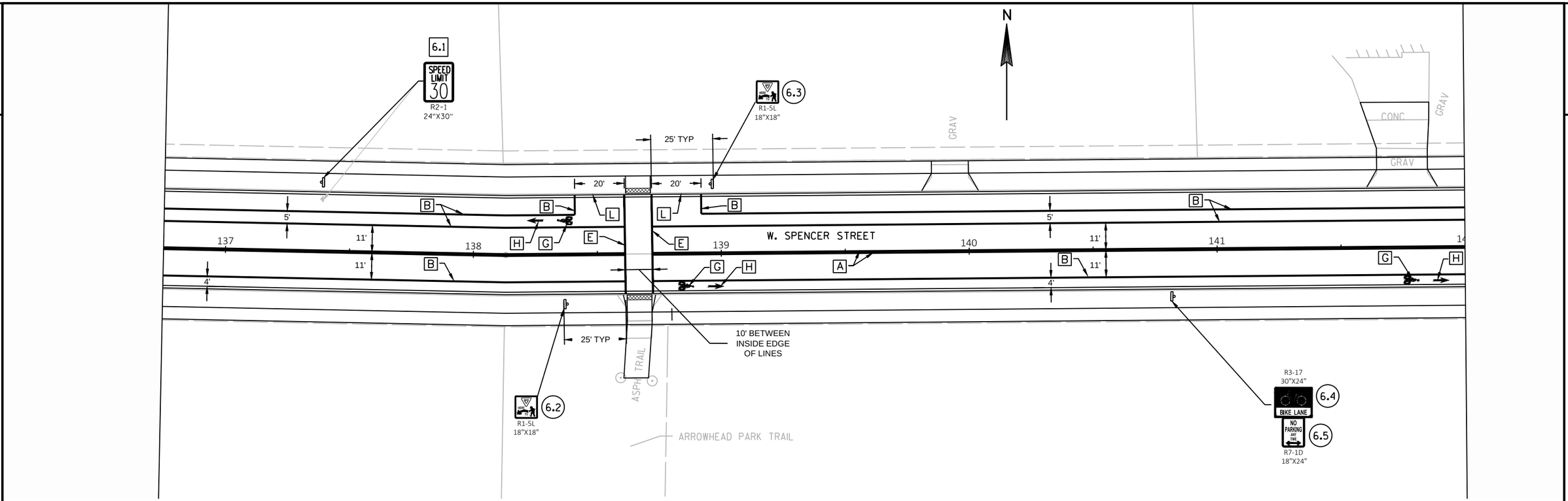
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

A	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	G	MARKING SYMBOL EPOXY BIKE LANE
B	MARKING LINE EPOXY 4–INCH WHITE	H	MARKING ARROW EPOXY BIKE LANE
C	MARKING LINE EPOXY 8–INCH WHITE	I	MARKING WORD EPOXY BIKE LANE
D	MARKING WORD EPOXY	J	MARKING ARROW EPOXY TYPE 2
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	K	MARKING ARROW EPOXY TYPE 3
F	MARKING STOP LINE EPOXY 12–INCH	L	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

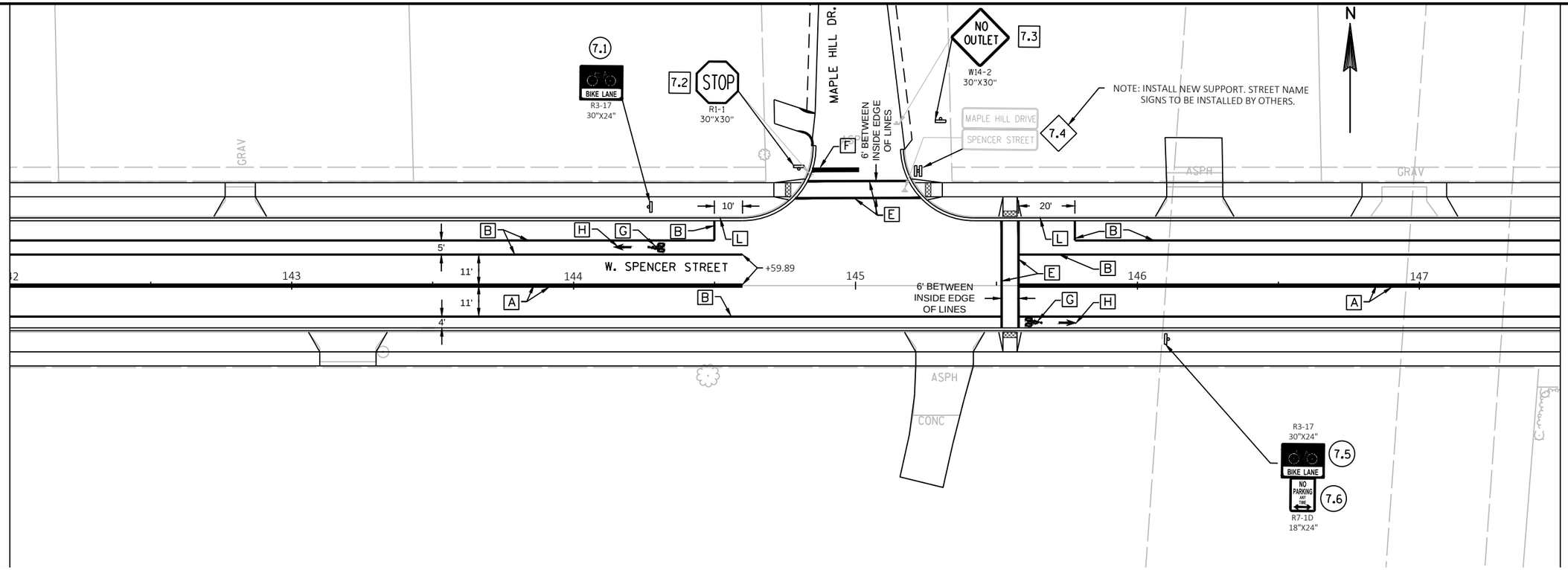
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

[A]	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	[G]	MARKING SYMBOL EPOXY BIKE LANE
[B]	MARKING LINE EPOXY 4–INCH WHITE	[H]	MARKING ARROW EPOXY BIKE LANE
[C]	MARKING LINE EPOXY 8–INCH WHITE	[I]	MARKING WORD EPOXY BIKE LANE
[D]	MARKING WORD EPOXY	[J]	MARKING ARROW EPOXY TYPE 2
[E]	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	[K]	MARKING ARROW EPOXY TYPE 3
[F]	MARKING STOP LINE EPOXY 12–INCH	[L]	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

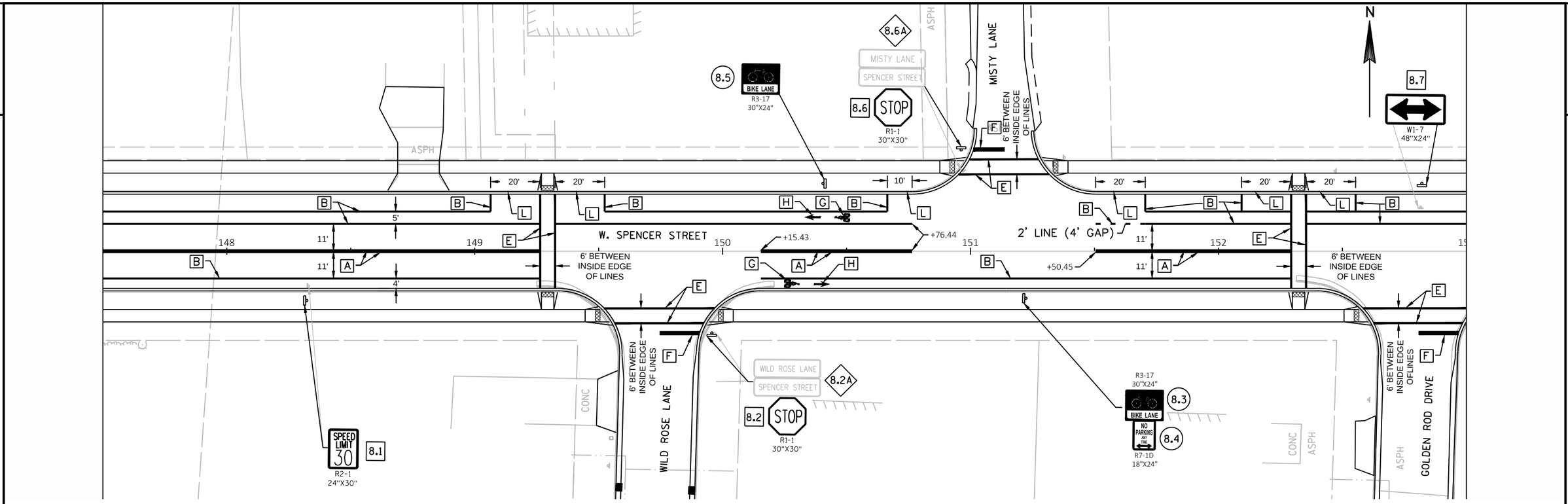
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

A	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	G	MARKING SYMBOL EPOXY BIKE LANE
B	MARKING LINE EPOXY 4–INCH WHITE	H	MARKING ARROW EPOXY BIKE LANE
C	MARKING LINE EPOXY 8–INCH WHITE	I	MARKING WORD EPOXY BIKE LANE
D	MARKING WORD EPOXY	J	MARKING ARROW EPOXY TYPE 2
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	K	MARKING ARROW EPOXY TYPE 3
F	MARKING STOP LINE EPOXY 12–INCH	L	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

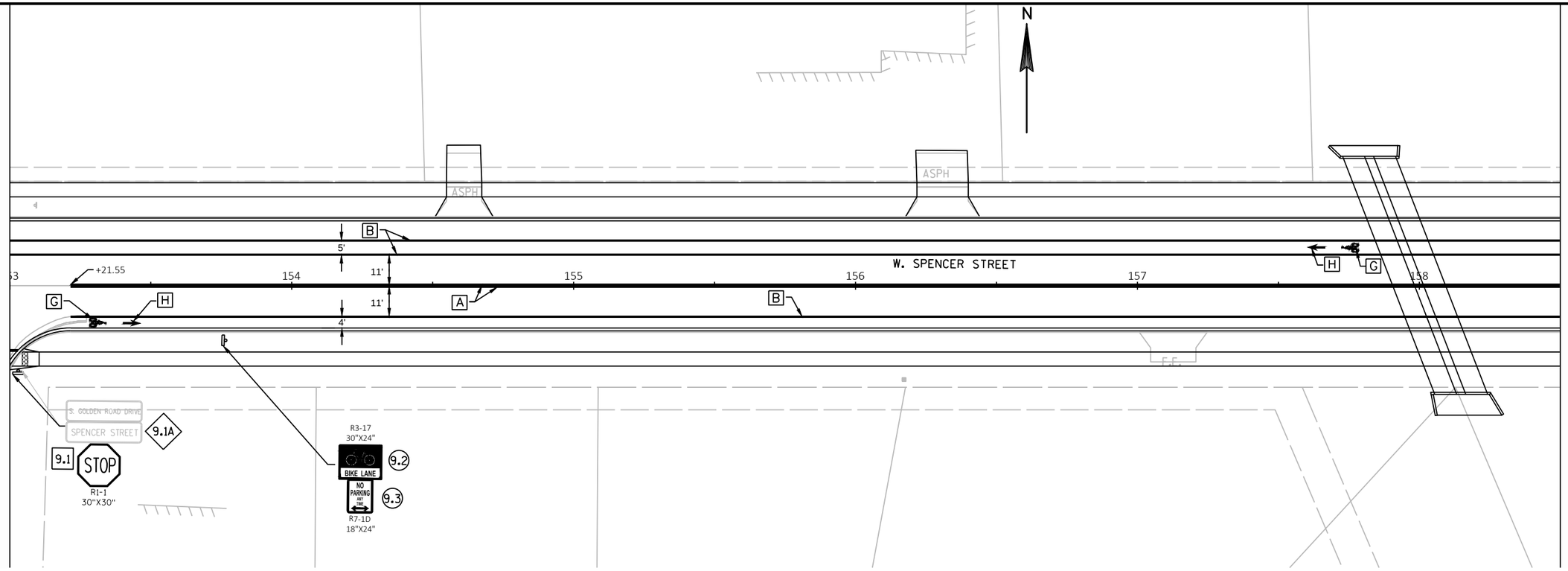
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

A	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	G	MARKING SYMBOL EPOXY BIKE LANE
B	MARKING LINE EPOXY 4–INCH WHITE	H	MARKING ARROW EPOXY BIKE LANE
C	MARKING LINE EPOXY 8–INCH WHITE	I	MARKING WORD EPOXY BIKE LANE
D	MARKING WORD EPOXY	J	MARKING ARROW EPOXY TYPE 2
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	K	MARKING ARROW EPOXY TYPE 3
F	MARKING STOP LINE EPOXY 12–INCH	L	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

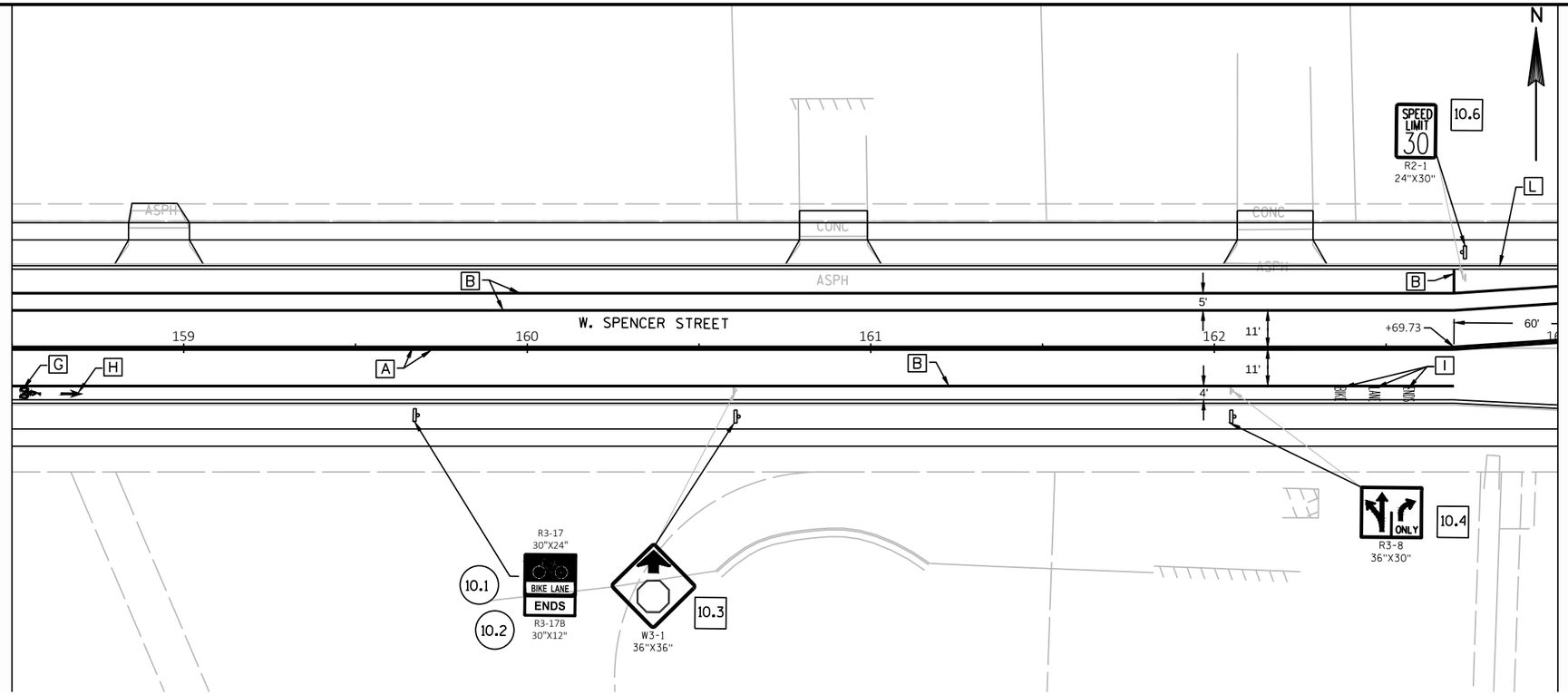
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

[A]	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	[G]	MARKING SYMBOL EPOXY BIKE LANE
[B]	MARKING LINE EPOXY 4–INCH WHITE	[H]	MARKING ARROW EPOXY BIKE LANE
[C]	MARKING LINE EPOXY 8–INCH WHITE	[I]	MARKING WORD EPOXY BIKE LANE
[D]	MARKING WORD EPOXY	[J]	MARKING ARROW EPOXY TYPE 2
[E]	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	[K]	MARKING ARROW EPOXY TYPE 3
[F]	MARKING STOP LINE EPOXY 12–INCH	[L]	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



PERMANENT SIGNING LEGEND

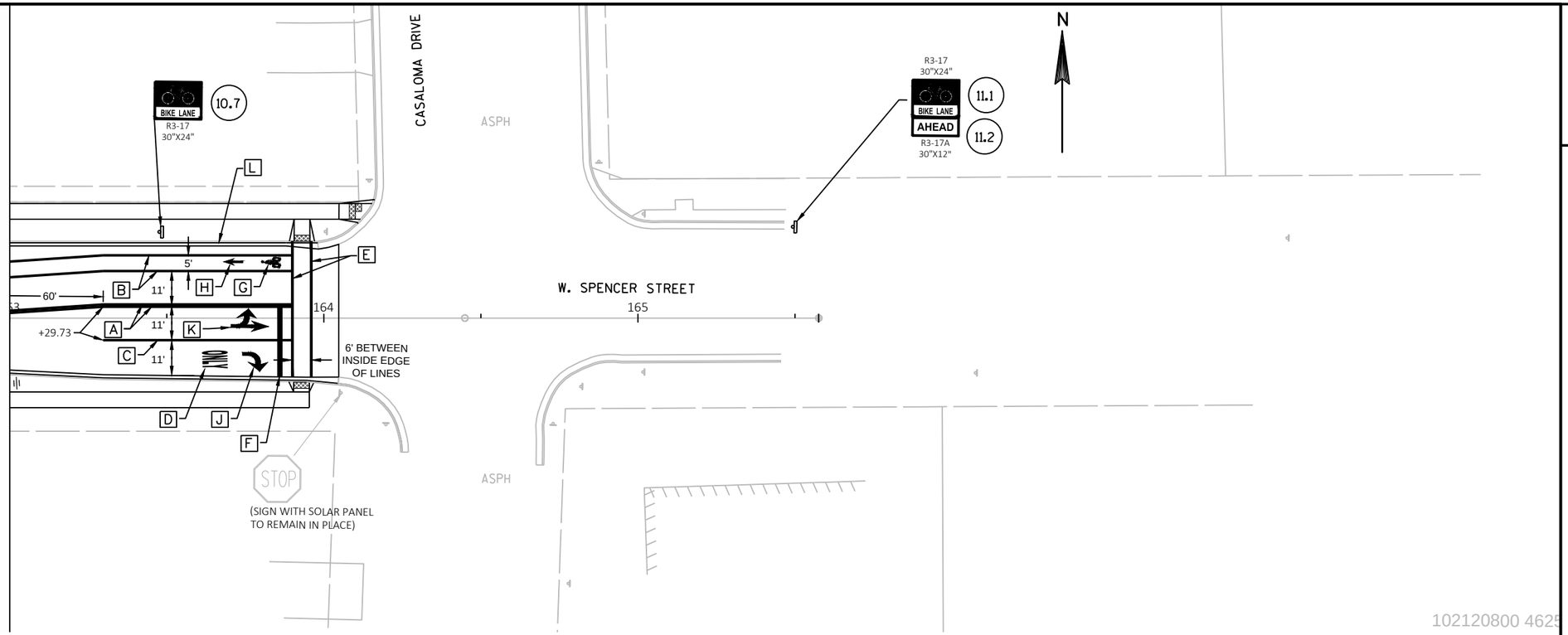
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

A	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	G	MARKING SYMBOL EPOXY BIKE LANE
B	MARKING LINE EPOXY 4–INCH WHITE	H	MARKING ARROW EPOXY BIKE LANE
C	MARKING LINE EPOXY 8–INCH WHITE	I	MARKING WORD EPOXY BIKE LANE
D	MARKING WORD EPOXY	J	MARKING ARROW EPOXY TYPE 2
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	K	MARKING ARROW EPOXY TYPE 3
F	MARKING STOP LINE EPOXY 12–INCH	L	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



102120800 4625

PERMANENT SIGNING LEGEND

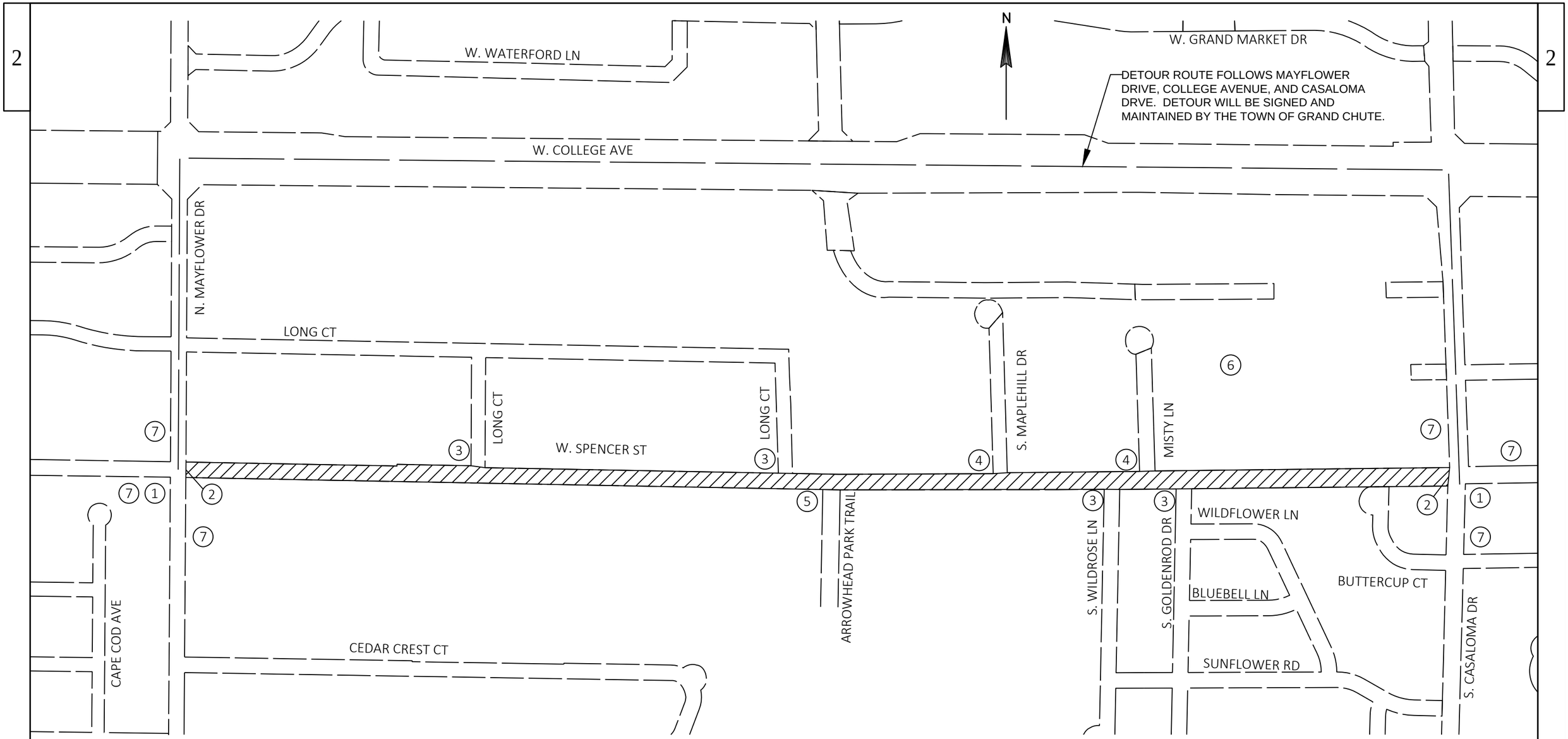
- (X.X) SIGN - NEW
- [X.X] SIGN - REMOVE AND REPLACE
- ◇X.X◇ SIGN - REMOVE
- EXISTING SIGN AND SUPPORT
- PROPOSED SIGN AND SUPPORT

LEGEND

[A]	MARKING LINE EPOXY 4–INCH DOUBLE YELLOW	[G]	MARKING SYMBOL EPOXY BIKE LANE
[B]	MARKING LINE EPOXY 4–INCH WHITE	[H]	MARKING ARROW EPOXY BIKE LANE
[C]	MARKING LINE EPOXY 8–INCH WHITE	[I]	MARKING WORD EPOXY BIKE LANE
[D]	MARKING WORD EPOXY	[J]	MARKING ARROW EPOXY TYPE 2
[E]	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6–INCH	[K]	MARKING ARROW EPOXY TYPE 3
[F]	MARKING STOP LINE EPOXY 12–INCH	[L]	MARKING CURB EPOXY YELLOW

INFORMATION NOT SHOWN ON THIS DETAIL SHALL BE ACCORDANCE WITH THE PERTINENT STANDARD DETAIL FOR PAVEMENT MARKING.

NOTE: THE 4–FT DIMENSION SHOWN FOR THE BIKE LANE MARKING IS MEASURED FROM EDGE OF PAVEMENT TO INSIDE EDGE OF MARKING.



1. REFER TO SDD 15C2-6A FOR BARRICADES AND SIGNS FOR MAINLINE CLOSURES, DETAIL B (MAINLINE CLOSURE WITH POSTED DETOUR)
2. REFER TO SDD 15C2-6B FOR BARRICADES AND SIGNS FOR MAINLINE CLOSURES, DETAIL E (LANE CLOSURE BARRICADE DETAIL)
3. REFER TO SDD 15C3-5 FOR BARRICADES AND SIGNS FOR SIDEROAD CLOSURES, DETAIL 1 (NO ACCESS TO PROJECT)
4. REFER TO SDD 15C3-5 FOR BARRICADES AND SIGNS FOR SIDEROAD CLOSURES, DETAIL 4 (CONTRACTOR, LOCAL BUSINESS, AND RESIDENT ACCESS TO PROJECT)
5. MAINTAIN ACCESS TO ARROWHEAD PARK TRAIL IN ACCORDANCE WITH SPECIAL PROVISIONS
6. PROPOSED STORMWATER POND LOCATION BY OTHERS
7. REFER TO SDD C5-5 TRAFFIC CONTROL WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROADWAY OPEN TO TRAFFIC

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN: TRAFFIC CONTROL	SHEET 66	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\02 SPENCER STREET TRAFFIC CONTROL.DWG
LAYOUT NAME - TRAFFIC CONTROL
PLOT DATE : 12/21/2018 9:10 AM PLOT BY : CHRIS CLEMENS PLOT NAME : _____ PLOT SCALE : Custom

4657-25-01

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	33.000	33.000
0004	201.0120	Clearing	ID	250.000	250.000
0006	201.0205	Grubbing	STA	33.000	33.000
0008	201.0220	Grubbing	ID	250.000	250.000
0010	203.0100	Removing Small Pipe Culverts	EACH	52.000	52.000
0012	203.0200	Removing Old Structure (station) 01. Sta. 158+00	LS	1.000	1.000
0014	204.0100	Removing Pavement	SY	142.000	142.000
0016	204.0150	Removing Curb & Gutter	LF	607.000	607.000
0018	204.0170	Removing Fence	LF	100.000	100.000
0020	204.0215	Removing Catch Basins	EACH	2.000	2.000
0022	204.0245	Removing Storm Sewer (size) 01. 12-Inch or Less	LF	161.000	161.000
0024	204.0245	Removing Storm Sewer (size) 02. 24-Inch or Less	LF	12.000	12.000
0026	204.0280	Sealing Pipes	EACH	1.000	1.000
0028	205.0100	Excavation Common	CY	43,740.000	43,740.000
0030	213.0100	Finishing Roadway (project) 01. 4567-25-01	EACH	1.000	1.000
0032	305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	20.000
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	11,890.000	11,890.000
0036	305.0130	Base Aggregate Dense 3-Inch	TON	30,415.000	30,415.000
0038	416.0160	Concrete Driveway 6-Inch	SY	1,244.000	1,244.000
0040	416.0170	Concrete Driveway 7-Inch	SY	21.000	21.000
0042	455.0605	Tack Coat	GAL	1,700.000	1,700.000
0044	460.2000	Incentive Density HMA Pavement	DOL	4,380.000	4,380.000
0046	460.5223	HMA Pavement 3 LT 58-28 S	TON	3,800.000	3,800.000
0048	460.5224	HMA Pavement 4 LT 58-28 S	TON	3,035.000	3,035.000
0050	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	85.000	85.000
0052	465.0315	Asphaltic Flumes	SY	50.000	50.000
0054	504.0900	Concrete Masonry Endwalls	CY	20.000	20.000
0056	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000
0058	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	10,818.000	10,818.000
0060	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	310.000	310.000
0062	602.0405	Concrete Sidewalk 4-Inch	SF	44,057.000	44,057.000
0064	602.0415	Concrete Sidewalk 6-Inch	SF	691.000	691.000
0066	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	310.000	310.000
0068	608.0005	Storm Sewer Rock Excavation	CY	750.000	750.000
0070	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	250.000	250.000
0072	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	601.000	601.000
0074	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	789.000	789.000

4657-25-01

Line	Item	Item Description	Unit	Total	Qty
0076	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	154.000	154.000
0078	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	2,792.000	2,792.000
0080	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	897.000	897.000
0082	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	980.000	980.000
0084	608.2419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	32.000	32.000
0086	608.2434	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	294.000	294.000
0088	611.0420	Reconstructing Manholes	EACH	1.000	1.000
0090	611.0530	Manhole Covers Type J	EACH	39.000	39.000
0092	611.0612	Inlet Covers Type C	EACH	22.000	22.000
0094	611.0639	Inlet Covers Type H-S	EACH	2.000	2.000
0096	611.0666	Inlet Covers Type Z	EACH	34.000	34.000
0098	611.2004	Manholes 4-FT Diameter	EACH	14.000	14.000
0100	611.2005	Manholes 5-FT Diameter	EACH	14.000	14.000
0102	611.2006	Manholes 6-FT Diameter	EACH	6.000	6.000
0104	611.2008	Manholes 8-FT Diameter	EACH	4.000	4.000
0106	611.3003	Inlets 3-FT Diameter	EACH	55.000	55.000
0108	611.3230	Inlets 2x3-FT	EACH	2.000	2.000
0110	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000
0112	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	2,300.000	2,300.000
0114	618.0100	Maintenance And Repair of Haul Roads (project) 01. 4657-25-01	EACH	1.000	1.000
0116	619.1000	Mobilization	EACH	1.000	1.000
0118	621.0100	Landmark Reference Monuments	EACH	5.000	5.000
0120	624.0100	Water	MGAL	21.000	21.000
0122	625.0100	Topsoil	SY	19,160.000	19,160.000
0124	627.0200	Mulching	SY	20,500.000	20,500.000
0126	628.1504	Silt Fence	LF	1,750.000	1,750.000
0128	628.1520	Silt Fence Maintenance	LF	1,750.000	1,750.000
0130	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0132	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0134	628.2006	Erosion Mat Urban Class I Type A	SY	12,627.000	12,627.000
0136	628.2008	Erosion Mat Urban Class I Type B	SY	6,540.000	6,540.000
0138	628.7005	Inlet Protection Type A	EACH	44.000	44.000
0140	628.7010	Inlet Protection Type B	EACH	4.000	4.000
0142	628.7015	Inlet Protection Type C	EACH	23.000	23.000

4657-25-01

Line	Item	Item Description	Unit	Total	Qty
0144	628.7020	Inlet Protection Type D	EACH	13.000	13.000
0146	628.7504	Temporary Ditch Checks	LF	100.000	100.000
0148	628.7555	Culvert Pipe Checks	EACH	37.000	37.000
0150	628.7560	Tracking Pads	EACH	4.000	4.000
0152	628.7570	Rock Bags	EACH	50.000	50.000
0154	629.0210	Fertilizer Type B	CWT	25.000	25.000
0156	630.0140	Seeding Mixture No. 40	LB	240.000	240.000
0158	630.0200	Seeding Temporary	LB	150.000	150.000
0160	630.0300	Seeding Borrow Pit	LB	270.000	270.000
0162	637.2210	Signs Type II Reflective H	SF	250.250	250.250
0164	638.2602	Removing Signs Type II	EACH	32.000	32.000
0166	638.3000	Removing Small Sign Supports	EACH	20.000	20.000
0168	643.0300	Traffic Control Drums	DAY	23,250.000	23,250.000
0170	643.0420	Traffic Control Barricades Type III	DAY	8,990.000	8,990.000
0172	643.0705	Traffic Control Warning Lights Type A	DAY	11,740.000	11,740.000
0174	643.0715	Traffic Control Warning Lights Type C	DAY	3,875.000	3,875.000
0176	643.0900	Traffic Control Signs	DAY	7,750.000	7,750.000
0178	643.5000	Traffic Control	EACH	1.000	1.000
0180	645.0135	Geotextile Type SR	SY	8,600.000	8,600.000
0182	646.1020	Marking Line Epoxy 4-Inch	LF	24,600.000	24,600.000
0184	646.3020	Marking Line Epoxy 8-Inch	LF	75.000	75.000
0186	646.5020	Marking Arrow Epoxy	EACH	6.000	6.000
0188	646.5120	Marking Word Epoxy	EACH	7.000	7.000
0190	646.5220	Marking Symbol Epoxy	EACH	36.000	36.000
0192	646.6020	Marking Stop Line Epoxy 12-Inch	LF	142.000	142.000
0194	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,001.000	1,001.000
0196	646.8120	Marking Curb Epoxy	LF	390.000	390.000
0198	650.4000	Construction Staking Storm Sewer	EACH	97.000	97.000
0200	650.4500	Construction Staking Subgrade	LF	6,257.000	6,257.000
0202	650.5000	Construction Staking Base	LF	6,257.000	6,257.000
0204	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	11,128.000	11,128.000
0206	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
0208	650.9910	Construction Staking Supplemental Control (project) 01. 4657-25-01	LS	1.000	1.000
0210	650.9920	Construction Staking Slope Stakes	LF	6,257.000	6,257.000
0212	690.0150	Sawing Asphalt	LF	767.000	767.000
0214	690.0250	Sawing Concrete	LF	242.000	242.000
0216	740.0440	Incentive IRI Ride	DOL	4,083.000	4,083.000
0218	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0220	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,320.000	1,320.000

4657-25-01

Line	Item	Item Description	Unit	Total	Qty
0222	SPV.0060	Special 01. Manholes 8 Ft x 8 Ft	EACH	2.000	2.000
0224	SPV.0060	Special 02. Adjusting Water Valve Boxes	EACH	23.000	23.000
0226	SPV.0060	Special 03. Adjusting Curb Stop Boxes	EACH	55.000	55.000
0228	SPV.0060	Special 04. Storm Sewer Lateral Cleanout	EACH	61.000	61.000
0230	SPV.0060	Special 05. Posts Steel 2 3/8-Inch x 10-FT	EACH	40.000	40.000
0232	SPV.0060	Special 09. Concrete Pipe Supports	EACH	2.000	2.000
0234	SPV.0060	Special 10. Sanitary Manhole Reconstructs	EACH	15.000	15.000
0236	SPV.0060	Special 11. Concrete Collars for Pipe - Special	EACH	2.000	2.000
0238	SPV.0075	Special 01. Street Sweeping	HRS	100.000	100.000
0240	SPV.0090	Special 01. Storm Sewer Pipe Reinforced Conc Horizontal Eliptical Class HE-V 38 x 60-In	LF	373.000	373.000
0242	SPV.0090	Special 02. Storm Sewer Lateral, 4-Inch	LF	1,860.000	1,860.000
0244	SPV.0090	Special 03. Storm Sewer Lateral, 6-Inch	LF	78.000	78.000
0246	SPV.0090	Special 05. Culvert Pipe Corrugated Steel 87 x 63-Inch	LF	180.000	180.000
0248	SPV.0090	Special 10. Salvage and Reset Fence	LF	40.000	40.000
0250	SPV.0090	Special 11. Salvage and Reset Landscape Timbers	LF	40.000	40.000
0252	SPV.0105	Special 01. Temporary Mailbox Accommodations	LS	1.000	1.000
0254	SPV.0120	Special 01. Water for Seeded Areas	MGAL	21.000	21.000
0256	SPV.0165	Special 02. Salvage and Reset Driveway Paver Bricks	SF	145.000	145.000

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

CLEARING AND GRUBBING

STATION	LOCATION	201.0105 CLEARING STA	201.0120 CLEARING ID	201.0205 GRUBBING STA	201.0220 GRUBBING ID
111+05	42' LT	-	20	-	20
111+20	36' RT	-	20	-	20
111+38	36' RT	-	20	-	20
111+59	36' RT	-	20	-	20
111+74	36' RT	-	20	-	20
112+01	44' LT	-	24	-	24
114+09	48' LT	-	16	-	16
114+80	33' RT	-	14	-	14
114+99	34' RT	-	14	-	14
115+06	34' RT	-	14	-	14
115+30	47' LT	-	8	-	8
116+00 - 121+00	LT.& RT.	5	-	5	-
123+00 - 126+00	RT.	3	-	3	-
126+05	29' RT.	-	12	-	12
127+12	35' RT.	-	12	-	12
127+24	40' RT.	-	8	-	8
133+00 - 135+00	RT.	2	-	2	-
137+00 - 154+00	LT.& RT.	17	-	17	-
156+48	40' LT.	-	28	-	28
157+00 - 163+00	LT. & RT.	6	-	6	-
PROJECT TOTALS		33	250	33	250

REMOVING PAVEMENT

204.0100

STATION	LOCATION	S.Y.
110+79	W.SPENCER ST RT	36
112+14	W.SPENCER ST RT	7
121+69	W.SPENCER ST RT	7
141+75	W.SPENCER ST LT	29
145+31	W.SPENCER ST RT	12
160+90	W.SPENCER ST LT	17
162+18	W.SPENCER ST LT	14
9+38	WILD ROSE LANE	20
PROJECT TOTAL		142

REMOVING CURB AND GUTTER

204.0150

STATION TO STATION	LOCATION	LF	REMARKS
110+20	W. SPENCER ST LT.	58	MAYFLOWER DR.
110+20	W. SPENCER ST RT.	54	MAYFLOWER DR.
149+59	W. SPENCER ST RT.	134	WILD ROSE LANE WEST
149+91	W. SPENCER ST RT.	132	WILD ROSE LANE EAST
152+65	W. SPENCER ST RT.	115	GOLDEN ROD DR. WEST
152+97	W. SPENCER ST RT.	114	GOLDEN ROD DR. EAST
PROJECT TOTAL		607	

REMOVING SMALL PIPE CULVERTS

203.0100

STATION	LOCATION	EACH	REMARKS
110+81	W. SPENCER ST RT.	1	-
110+86	W. SPENCER ST LT.	1	-
112+15	W. SPENCER ST RT.	1	-
112+91	W. SPENCER ST RT.	1	-
114+39	W. SPENCER ST RT.	1	-
115+25	W. SPENCER ST RT.	1	-
116+96	W. SPENCER ST RT.	1	-
117+34	W. SPENCER ST LT.	1	-
118+75	W. SPENCER ST RT.	1	-
120+30	W. SPENCER ST LT.	1	-
120+60	W. SPENCER ST RT.	1	-
121+70	W. SPENCER ST RT.	1	-
122+41	W. SPENCER ST RT.	1	-
122+75	W. SPENCER ST LT.	1	LONG CT
123+62	W. SPENCER ST RT.	1	-
124+98	W. SPENCER ST LT.	1	-
125+44	W. SPENCER ST RT.	1	-
126+62	W. SPENCER ST RT.	1	-
126+65	W. SPENCER ST LT.	1	-
128+16	W. SPENCER ST LT.	1	-
128+39	W. SPENCER ST RT.	1	-
130+14	W. SPENCER ST RT.	1	-
130+34	W. SPENCER ST LT.	1	-
131+25	W. SPENCER ST LT. & RT.	2	-
132+68	W. SPENCER ST LT.	1	-

REMOVING SMALL PIPE CULVERTS

203.0100

STATION	LOCATION	EACH	REMARKS
133+55	W. SPENCER ST RT.	1	-
134+89	W. SPENCER ST RT.	1	-
135+45	W. SPENCER ST RT.		
135+75	W. SPENCER ST LT.	1	LONG CT
138+67	W. SPENCER ST RT.	1	-
139+93	W. SPENCER ST LT.	1	-
141+75	W. SPENCER ST LT.	1	-
142+82	W. SPENCER ST LT.	1	-
143+19	W. SPENCER ST RT.	1	-
145+00	W. SPENCER ST LT.	1	MAPLE HILL DR
145+31	W. SPENCER ST RT.	1	-
146+21	W. SPENCER ST LT.	1	-
146+95	W. SPENCER ST LT.	1	-
148+77	W. SPENCER ST LT.	1	-
149+75	W. SPENCER ST RT.	1	WILD ROSE LN.
151+15	W. SPENCER ST LT.	1	MISTY LN.
152+42	W. SPENCER ST LT.	1	GOLDEN ROD DR.
152+81	W. SPENCER ST LT.	1	-
154+61	W. SPENCER ST LT.	1	-
156+31	W. SPENCER ST LT.	1	-
157+13	W. SPENCER ST RT.	1	-
158+94	W. SPENCER ST LT.	1	-
160+89	W. SPENCER ST LT.	1	-
162+17	W. SPENCER ST LT.	1	-
11+75	LONG CT. W. RT.	1	-
12+0	LONG CT. W. LT.	1	
10+92	LONG CT. E. RT.	1	
PROJECT TOTAL		52	

REMOVING OLD STRUCTURE

203.0200

STATION	LOCATION	EACH	REMARKS
158+00	W. SPENCERT ST RT.	1	76"X108" CMP
PROJECT TOTAL		1	

3

EARTHWORK SUMMARY

Division	From/To Station	Location	Excavation Common (Item # 205.0100)		Salvaged/Unusable Pavement Material	Available Material	Unexpanded Fill	*Expanded Fill	Mass Ordinate +/-	Comment:
			Cut	EBS				Factor 1.30		
0010	110+15 - 164+04	W Spencer	35,132.93	-	4,300	30,833	3,347.42	4,352	26,481	
	10+00 - 12+12	Long Court (West)	879.01	-	110	769	0.01	0.01	769	
	10+00 -11+10	Long Court (East)	517.24	-	80	437	0.00	0.00	437	
	10+00 - 11+52	Maple Hill Drive	368.15	-	75	293	1.92	2.50	291	
	10+00 - 11+12	Misty Lane	110.65	-	50	61	0.07	0.09	61	
	8+75 - 10+00	Wild Rose Lane	306.67	-	65	242	0.02	0.03	242	
	8+95 - 10+00	Golden Rod Drive	225.72	-	60	166	0.03	0.04	166	
	110+15 - 164+05	Undistributed	-	6,200	0	0	0.25	0.33	0	
Subtotal			37,540	6,200	4,740	32,800	3,350	4,355	28,446	
Grand Total			43,740		4,740	32,800	3,350	4,355	28,446	

Total Excavation Common 43,740

*EXPANSION FACTOR FOR FILL = 30%

MASS ORDINATE: POSITIVE QUANTITY INDICATES AN EXCESS OF MATERIAL ON THE PROJECT

UNDISTRIBUTED EBS (EXCAVATION BELOW SUBGRADE) VOLUME IS APPROXIMATED AND IS NOT SHOWN ON CROSS SECTIONS. ACTUAL EBS LOCATIONS TO BE DETERMINED BY ENGINEER FOR UNSTABLE SOILS. EBS EXCAVATION MATERIAL IS NOT INCLUDED IN THE MASS ORDINATE.

EBS EXCAVATION TO BE BACK FILLED WITH BASE AGGREGATE DENSE 3-INCH

EBS EXCAVATION MATERIAL SHALL BE REMOVED FROM THE SITE AND SHALL NOT BE USED AS FILL MATERIAL.

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

REMOVING CATCH BASINS

204.0125

STATION TO STATION	LOCATION	EACH
9+61	GOLDEN ROD DR. LT	1
9+63	GOLDEN ROD DR. RT	1
	PROJECT TOTAL	2

REMOVING STORM SEWER AND SEALING PIPE

STATION	STRUCTURE	TO	STATION	STRUCTURE	LOCATION	204.0280 SEALING PIPES EA	204.0245.01 12-INCH OR LESS LF	204.0245.02 24-INCH OR LESS LF
9+61 LT	EX. CB	-	9+62 RT	MH	GOLDEN ROD		36	
9+63 RT	EX. CB	-	9+62 RT	MH	GOLDEN ROD		12	
162+98 RT	ENDWALL		164+05 RT.	LIMITS	SPENCER ST	1	113	
110+25 RT	ENDWALL				SPENCER ST			6
110+33 LT	ENDWALL				SPENCER ST			6
					PROJECT TOTAL	1	161	12

BASE AGGREGATE, WATER , AND GEOTEXTILE

STATION TO STATION	305.0110 DENSE 3/4-INCH TON	305.0120 DENSE 1-1/4-INCH TON	305.0130 DENSE 3-INCH TON	624.0100 WATER MGAL	645.0135 TYPE SR SY	REMARKS
110+15.17 - 164+04.73	-	9895	17815			MAINLINE & SIDEROADS
110+15.17 - 164+04.73	-	1450	-		-	SIDEWALK
110+15.17 - 164+04.73	-	430	-		-	CONCRETE DRIVEWAYS
110+15.17 - 164+04.73	-	115	-		-	ASPHALT DRIVEWAYS
110+15.17 - 164+04.73	20	-				SIDEROAD MATCH POINTS (SHOULDERS)
110+15.17 - 164+04.73		-	12400		8600	EBS AREAS (UNDISTRIBUTED)
110+15.17 - 164+04.73		-	200		-	ROCK EXCAVATION AREAS (UNDISTRIBUTED)
110+15.17 - 164+04.73				21		UNDISTRIBUTED
	20	11890	30415	21	8600	

ASPHALTIC ITEMS

STATION TO STATION	LOCATION	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT. 58-28 S TONS	460.5224 HMA PAVEMENT 4 LT. 58-28 S TONS	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TONS	REMARKS
110+15.17 TO 164+04.73	W. SPENCER ST.	1700	3800	3035	-	MAINLINE/SIDEROADS
110+15.17 TO 164+04.73	W. SPENCER ST.	-	-	-	85	DRIVEWAYS
	PROJECT TOTALS	1700	3800	3035	85	

CONCRETE DRIVEWAYS

STATION	LOCATION	416.0160 6-INCH S.Y.	416.0170 7-INCH S.Y.
110+79	SPENCER RT	64	-
110+86	SPENCER LT	27	-
112+14	SPENCER RT	45	-
112+90	SPENCER RT	44	-
114+39	SPENCER RT	25	-
115+25	SPENCER RT	24	-
116+34	SPENCER RT	22	-
116+95	SPENCER RT	23	-
117+34	SPENCER LT	21	-
118+75	SPENCER RT	16	-
119+13	SPENCER LT	18	-
119+40	SPENCER LT	16	-
120+32	SPENCER LT	23	-
120+59	SPENCER RT	26	-
121+69	SPENCER RT	34	-
122+39	SPENCER RT	20	-
123+61	SPENCER RT	22	-
125+00	SPENCER LT	25	-
125+43	SPENCER RT	21	-
126+62	SPENCER LT	26	-
126+62	SPENCER RT	19	-
128+16	SPENCER LT	28	-
128+39	SPENCER RT	24	-
130+13	SPENCER RT	29	-
130+32	SPENCER LT	18	-

CONCRETE DRIVEWAYS

STATION	LOCATION	416.0160 6-INCH S.Y.	416.0170 7-INCH S.Y.
131+25	SPENCER LT	30	-
131+25	SPENCER RT	18	-
132+69	SPENCER LT	20	-
133+54	SPENCER RT	18	-
134+88	SPENCER RT	25	-
138+67	SPENCER RT	14	-
139+92	SPENCER LT	20	-
141+75	SPENCER LT	67	-
142+82	SPENCER LT	15	-
143+20	SPENCER RT	26	-
145+31	SPENCER RT	66	-
146+20	SPENCER LT	26	-
146+90	SPENCER LT	-	21
148+77	SPENCER LT	22	-
154+61	SPENCER LT	17	-
156+31	SPENCER LT	24	-
158+90	SPENCER LT	23	-
160+90	SPENCER LT	37	-
162+18	SPENCER LT	41	-
11+00	LONG CT RT	56	-
9+40	WILD ROSE LN	19	-
	PROJECT TOTALS	1244	21

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

ASPHALTIC FLUMES
465.0315

STATION TO STATION	LOCATION	S.Y.
STA. 10+57	LONG CT. WEST LT.	15
STA. 10+61	LONG CT. EAST LT.	15
STA. 10+60	MAPLE HILL DR. LT.	20
	PROJECT TOTAL	50

CONCRETE MASONRY ENDWALLS
504.0900

STATION TO STATION	LOCATION	C.Y.
STA. 158+00	SPENCER ST. LT. & RT.	20
	PROJECT TOTAL	20

CONCRETE COLLARS

STATION TO STATION	LOCATION	520.8000 FOR PIPE EACH	SPV.0060.11 FOR PIPE SPECIAL EACH
110+25 RT	SPENCER ST	1	
110+33 LT	SPENCER ST	1	
158+00	87"X 63" CSCP CROSSING		2
	PROJECT TOTAL	2	2

CONCRETE SIDEWALK

STATION TO STATION	LOCATION	602.0405 4-INCH SF	602.0415 6-INCH SF	REMARKS
110+36 - 122+44	W. SPENCER ST. LT.	5700	-	-
123+06 - 135+52	W. SPENCER ST. LT.	5615	-	-
136+44 - 144+70	W. SPENCER ST. LT.	4048	-	-
145+32 - 150+87	W. SPENCER ST. LT.	2513	-	-
151+40 - 164+08	W. SPENCER ST. LT.	5888	-	-
110+36 - 122+41	W. SPENCER ST. RT.	5040	-	-
122+41 - 134+89	W. SPENCER ST. RT.	5665	-	-
134+89 - 149+44	W. SPENCER ST. RT.	2967	-	-
150+05 - 152+50	W. SPENCER ST. RT.	1223	-	-
10+50 - 11+00	W. SPENCER ST. RT.	5398	-	-
110+30	W. SPENCER ST. RT. & LT.	-	115	RAMPS
122+49	W. SPENCER ST. LT.	-	48	RAMPS
123+02	W. SPENCER ST. LT.	-	48	RAMPS
135+56	W. SPENCER ST. LT.	-	48	RAMPS
136+10	W. SPENCER ST. LT.	-	48	RAMPS
144+74	W. SPENCER ST. LT.	-	48	RAMPS
145+27	W. SPENCER ST. LT.	-	48	RAMPS
149+48	W. SPENCER ST. RT.	-	48	RAMPS
150+01	W. SPENCER ST. RT.	-	48	RAMPS
150+91	W. SPENCER ST. LT.	-	48	RAMPS
151+36	W. SPENCER ST. LT.	-	48	RAMPS
152+54	W. SPENCER ST. RT.	-	48	RAMPS
153+09	W. SPENCER ST. RT.	-	48	RAMPS
	PROJECT TOTALS	44057	691	

CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA
602.0515

INTERSECTION	LOCATION	SF
MAYFLOWER DR	NE QUAD	20
MAYFLOWER DR.	SE QUAD	20
LONG CT (WEST)	NW QUAD	10
LONG CT (WEST)	NE QUAD	20
LONG CT (WEST)	SOUTH SIDE	10
LONG CT (EAST)	NW QUAD	10
LONG CT (EAST)	NE QUAD	10
MAPLE HILL DR.	NW QUAD	10
MAPLE HILL DR.	NE QUAD	20
MAPLE HILL DR.	SOUTH SIDE	10
WILD ROSE LANE	SW QUAD	20
WILD ROSE LANE	SE QUAD	10
WILD ROSE LANE	NORTH SIDE	10
MISTY LANE	NW QUAD	10
MISTY LANE	NE QUAD	10
GOLDEN ROD DR.	SW QUAD	20
GOLDEN ROD DR.	SE QUAD	10
GOLDEN ROD DR.	NORTH SIDE	10
CASALOMA DRIVE	NW QUAD	20
CASALOMA DRIVE	SW QUAD	10
STA. 138+66 LT	SPENCER ST	20
STA. 138+66 RT	SPENCER ST	20
PROJECT TOTAL		310

CURB AND GUTTER

STATION TO STATION	LOCATION	601.0407 18-INCH TYPE D LF	601.0411 30-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING LF	REMARKS
110+20 - 122+60	W. SPENCER ST LT.	1279	10	1289	MAYFLOWER DR.
122+90 - 135+67	W. SPENCER ST LT.	1308	-	1308	-
135+98 - 144+86	W. SPENCER ST LT.	917	-	917	-
145+16 - 151+02	W. SPENCER ST LT.	616	-	616	-
151+25 - 163+98	W. SPENCER ST LT.	1289	-	1289	-
110+20 - 149+61	W. SPENCER ST RT.	3978	10	3988	MAYFLOWER DR.
149+61	W. SPENCER ST RT.	-	83	83	WILD ROSE LN.
149+87	W. SPENCER ST RT.	-	85	85	WILD ROSE LN.
149+87 - 152+66	W. SPENCER ST RT.	306	-	306	-
152+66	W. SPENCER ST RT.	-	60	60	GOLDEN ROD DRIVE RT
152+94	W. SPENCER ST RT.	-	62	62	GOLDEN ROD DRIVE RT
152+94 - 164+05	STH 42 RT	1125	-	1125	-
	PROJECT TOTALS	10818	310	11128	

STORM SEWER ROCK EXCAVATION
608.0005

STATION	LOCATION	C.Y.
MH 11 - MH 12	W SPENCER ST	122
MH 12 - MH 13	W SPENCER ST	164
MH 13- MH 14	W SPENCER ST	48
MH 14- MH 15	W SPENCER ST	133
MH 15 - MH 16	W SPENCER ST	37
MH 16 - MH 17	W SPENCER ST	68
MH 17 - MH 18	W SPENCER ST	80
I15 TO MH 15	W SPENCER ST	11
MH 16 - MH 16.3	LONG CT	39
MH 16.3 - 16.2	LONG CT	10
INLET LEADS @ MH 13	W SPENCER ST	21
INLET LEADS @ MH 12	W SPENCER ST	17
PROJECT TOTAL		750

RECONSTRUCTING MANHOLES
611.0420

STATION TO STATION	LOCATION	EACH
9+62	GOLDEN ROD DR. RT	1
	PROJECT TOTAL	1

STORM SEWER PIPES

FROM	-	TO	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch LF	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch LF	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch LF	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch LF	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch LF	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch LF	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch LF	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical C lass HE-IV 19x30-Inch LF	608.2434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53- LF	SPV.0090.01 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
1	-	2					144						818.20	814.58	0.0251
1.1	-	1.2		12									818.71	818.65	0.0050
1.2	-	1					35						818.65	818.48	0.0049
1.3	-	1.4			23								818.29	818.24	0.0022
1.4	-	1					22						818.24	818.20	0.0018
2	-	3					66						814.58	813.00	0.0239
2.1	-	2			32								815.55	815.38	0.0053
3	-	4					144						813.00	811.50	0.0104
3.1	-	3			43								814.01	813.80	0.0049
4	-	5					161						811.50	810.00	0.0093
4.1	-	4		24									812.62	812.50	0.0050
4.2	-	4		16									812.58	812.50	0.0050
5	-	6					270						810.00	807.00	0.0111
5.1	-	5			24								810.92	810.80	0.0050
5.2	-	5		16									811.08	811.00	0.0050
6	-	7					255						807.00	803.89	0.0122
7	-	8					147						803.89	801.20	0.0183
7.1	-	7		24									805.01	804.89	0.0050
7.2	-	7		16									804.97	804.89	0.0050
8	-	9					39						801.20	800.69	0.0131
8.1	-	8		24									802.32	802.20	0.0050
9	-	10					372						800.69	797.00	0.0099
9.1	-	9					50						800.79	800.69	0.0020
9.2	-	9.1			26								800.83	800.78	0.0019
9.3	-	9.1								32			800.83	800.78	0.0016
9.4	-	9		16									800.74	800.69	0.0031
10	-	11						96					796.50	795.54	0.0100
10.1	-	10			24								797.34	797.22	0.0050
10.2	-	10		16									797.50	797.42	0.0050
11	-	12						254					795.54	792.50	0.0120
11.1	-	11			38								795.98	795.90	0.0021
12	-	13						341					792.50	785.70	0.0199
12.1	-	12			24								793.31	793.24	0.0029
12.2	-	12		16									793.29	793.24	0.0031
13	-	14						48					785.70	785.05	0.0135
13.1	-	13			24								786.87	786.80	0.0029
13.2	-	13			16								786.85	786.80	0.0031
14	-	15						158					785.05	784.30	0.0047
14.1	-	14					44						786.35	786.22	0.0030
15	-	16							41				783.80	783.35	0.0110
15.1	-	15		24									784.42	784.30	0.0050
16	-	17							264				783.35	779.70	0.0138

STORM SEWER PIPES

FROM	-	TO	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch LF	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch LF	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch LF	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch LF	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch LF	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch LF	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch LF	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch LF	608.2434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch LF	SPV.0090.01 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
16.1	-	16.3				27							783.73	783.60	0.0048
16.2	-	16.3				27							783.72	783.60	0.0044
16.3	-	16					50						783.60	783.35	0.0050
16.4	-	16		16									783.68	783.60	0.0050
16.5	-	16.2		72									788.55	783.72	0.0671
17	-	18							246				779.70	778.20	0.0061
17.1	-	17		24									780.46	780.34	0.0050
17.2	-	17		16									781.08	781.00	0.0050
18	-	19							43				778.20	777.90	0.0070
18.1	-	18		24									779.39	779.27	0.0050
18.2	-	18		16									779.55	779.47	0.0050
19	-	20							121				777.90	776.18	0.0142
19.1	-	19			45								778.26	778.12	0.0031
20	-	21							89				776.18	774.93	0.0140
20.1	-	20		40									777.50	777.30	0.0050
21	-	22							113				774.93	773.50	0.0127
21.1	-	21					46						775.07	774.93	0.0030
22	-	23							63				773.50	772.49	0.0160
22.1	-	22		24									774.34	774.22	0.0050
22.2	-	22		16									774.50	774.42	0.0050
23	-	24									294		772.49	768.74	0.0128
23.1	-	23.3			30								772.93	772.78	0.0050
23.2	-	23.3			37								772.96	772.78	0.0049
23.3	-	23				55							772.77	772.49	0.0051
24	-	26										202	768.30	768.06	0.0012
24.1	-	24.2				20							770.19	770.11	0.0040
24.2	-	24					24						770.11	770.01	0.0042
24.3	-	24			16								770.25	770.20	0.0031
26	-	27										58	768.06	767.99	0.0012
26.1	-	26		52									770.65	770.39	0.0050
26.2	-	26.1		31									770.81	770.65	0.0052
27	-	28										63	767.99	767.90	0.0014
27.1	-	27		24									769.84	769.72	0.0050
28	-	29										55	767.91	767.81	0.0018
29.1	-	29					52						769.16	769.00	0.0030
32.1	-	28			98								769.84	769.35	0.0050
33	-	34					118						768.67	768.49	0.0015
33.1	-	33.2			35								768.80	768.73	0.0020
33.2	-	33			24								768.73	768.67	0.0025

3

STORM SEWER PIPES

FROM	-	TO	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch LF	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch LF	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch LF	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch LF	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch LF	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch LF	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch LF	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch LF	608.2434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch LF	SPV.0090.01 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
33.3	-	33.4			37								768.78	768.71	0.0019
33.4	-	33			16								768.71	768.68	0.0019
34	-	35					216						768.49	768.19	0.0014
34.1	-	34			47								768.63	768.49	0.0030
35	-	87-INCH X 63-INCH CULVERT-					125						768.19	768.00	0.0015
35.1	-	35.2			46								768.35	768.26	0.0020
35.2	-	35			24								768.26	768.19	0.0029
35.3	-	35			16								768.73	768.68	0.0031
36	-	87-INCH X 63-INCH CULVERT-					105						767.31	767.21	0.0010
36.1	-	36		26									769.26	769.19	0.0027
36.2	-	36			16								769.24	769.20	0.0025
38	-	36					307						767.63	767.32	0.0010
38.1	-	38			24								769.29	769.23	0.0025
38.2	-	38		16									769.33	769.29	0.0025
51	-	51 A	23										767.88	767.86	0.0009
51	-	38	227										767.86	767.63	0.0010
E-1.2	-	1.2				8							821.08	821.00	0.0100
E-1.4	-	1.4				17							820.45	820.20	0.0147
		TOTALS	250	601	785	154	2792	897	980	32	294	378			

3

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	611.0530 Manhole Covers Type J EACH	611.0612 Inlet Covers Type C EACH	611.0639 Inlet Covers Type H-S EACH	611.0666 Inlet Covers Type Z EACH	611.2004 Manholes 4-FT Diameter EACH	611.2005 Manholes 5-FT Diameter EACH	611.2006 Manholes 6-FT Diameter EACH	611.2008 Manholes 8-FT Diameter EACH	611.3003 Inlets 3-FT Diameter EACH	611.3230 Inlets 2x3-FT EACH	SPV.0060.01 Manholes 8FTx8FT EACH	650.4000 Construction Staking Storm Sewer EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT
1	110+50.00	0' RT	SPENCER CONST CL	1					1						1	824.20	818.20	5.01
2	111+93.80	0' RT	SPENCER CONST CL	1				1							1	819.89	814.58	4.32
3	112+60.10	0' RT	SPENCER CONST CL	1				1							1	818.06	813.00	4.07
4	114+04.00	0' RT	SPENCER CONST CL	1					1						1	816.10	811.50	3.61
5	115+65.10	0' RT	SPENCER CONST CL	1					1						1	815.02	810.00	4.03
6	118+35.00	0' RT	SPENCER CONST CL	1				1							1	813.91	807.00	5.92
7	120+90.00	0' RT	SPENCER CONST CL	1					1						1	808.92	803.89	4.05
8	122+37.00	0' RT	SPENCER CONST CL	1					1						1	806.34	801.20	4.15
9	122+76.00	0' RT	SPENCER CONST CL	1					1						1	805.69	800.69	4.01
10	126+48.00	0' RT	SPENCER CONST CL	1					1						1	802.02	796.50	4.57
11	127+43.60	0' RT	SPENCER CONST CL	1					1						1	800.90	795.54	4.41
12	129+98.00	0' RT	SPENCER CONST CL	1					1						1	797.74	792.50	4.30
13	133+39.00	0' RT	SPENCER CONST CL	1					1						1	790.97	785.70	4.32
14	133+86.60	0' RT	SPENCER CONST CL	1					1						1	790.20	785.05	4.20
15	135+45.00	0' RT	SPENCER CONST CL	1						1					1	789.29	783.80	4.59
16	135+86.00	0' RT	SPENCER CONST CL	1						1					1	789.03	783.35	4.78
17	138+50.00	0' RT	SPENCER CONST CL	1					1						1	785.39	779.70	4.79
18	140+96.50	0' RT	SPENCER CONST CL	1						1					1	784.33	778.20	5.23
19	141+39.00	0' RT	SPENCER CONST CL	1					1						1	784.13	777.90	5.32
20	142+60.00	0' RT	SPENCER CONST CL	1						1					1	782.49	776.18	5.40
21	143+49.00	0' RT	SPENCER CONST CL	1						1					1	780.92	774.93	5.08
22	144+62.00	0' RT	SPENCER CONST CL	1						1					1	779.24	773.50	4.83
23	145+25.00	0' RT	SPENCER CONST CL	1							1				1	778.31	772.49	4.91
24	148+19.00	0' RT	SPENCER CONST CL	1							1				1	774.75	768.30	5.67
26	150+21.00	0' RT	SPENCER CONST CL	1							1				1	775.02	768.06	6.17
27	150+79.00	0' RT	SPENCER CONST CL	1							1				1	774.78	767.99	6.01
28	151+42	0'RT	SPENCER CONST CL	1										1	1	774.53	767.90	5.86
29	10+54	28.7'RT	MISTY LN		1									1	1	774.00	767.80	5.83
33	162+68.50	0' RT	SPENCER CONST CL	1				1							1	773.66	768.67	4.00
34	161+50.00	0' RT	SPENCER CONST CL	1				1							1	774.29	768.49	4.81
35	159+34.00	0' RT	SPENCER CONST CL	1				1							1	773.38	768.19	4.14
36	156+86.00	0' RT	SPENCER CONST CL	1				1							1	773.32	767.31	5.02
38	153+79.00	0' RT	SPENCER CONST CL	1				1							1	773.59	767.63	4.97
40	152+91.73	38.7' RT	SPENCER CONST CL	1				1							1	775.24	769.73	4.27
51	151+52.57	7' LT	SPENCER CONST CL	1				1							1	774.34	767.86	5.45
1.1	110+40.00	46' LT	SPENCER CONST CL		1							1			1	822.64	818.71	2.85
1.2	110+42.63	33.9' LT	SPENCER CONST CL	1				1							1	824.20	818.65	4.48
1.3	110+40.01	43.9' RT	SPENCER CONST CL		1							1			1	821.50	818.29	2.16
1.4	110+45.16	21.3' RT	SPENCER CONST CL	1				1							1	824.49	818.24	5.26

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

*** DEPTH = RIM ELEV - (INVERT ELEVATION OF LOWEST PIPE + PIPE THICKNESS) - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT (UNLESS OTHERWISE NOTED)

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	611.0530 Manhole Covers Type J EACH	611.0612 Inlet Covers Type C EACH	611.0639 Inlet Covers Type H-S EACH	611.0666 Inlet Covers Type Z EACH	611.2004 Manholes 4-FT Diameter EACH	611.2005 Manholes 5-FT Diameter EACH	611.2006 Manholes 6-FT Diameter EACH	611.2008 Manholes 8-FT Diameter EACH	611.3003 Inlets 3-FT Diameter EACH	611.3230 Inlets 2x3-FT EACH	SPV.0060.01 Manholes 8FTx8FT EACH	650.4000 Construction Staking Storm Sewer EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT
2.1	111+94.01	32.2' RT	SPENCER CONST CL		1							1			1	819.70	815.55	3.09
3.1	112+60.00	42.8' LT	SPENCER CONST CL		1							1			1	817.49	814.01	2.42
4.1	114+00.00	23.8' LT	SPENCER CONST CL				1					1			1	815.68	812.62	2.14
4.2	114+00.00	15.7' RT	SPENCER CONST CL				1					1			1	815.84	812.58	2.34
5.1	115+61.00	23.8' LT	SPENCER CONST CL				1					1			1	814.56	810.92	2.74
5.2	115+61.00	15.7' RT	SPENCER CONST CL				1					1			1	814.72	811.08	2.72
7.1	120+86.00	23.8' LT	SPENCER CONST CL				1					1			1	808.55	805.01	2.62
7.2	120+86.00	15.7' RT	SPENCER CONST CL				1					1			1	808.71	804.97	2.82
8.1	122+32.50	23.8' LT	SPENCER CONST CL				1					1			1	805.95	802.32	2.71
9.1	10+49.57	0' RT	LONG CT WEST	1					1						1	805.79	800.78	4.04
9.2	10+60.00	24' RT	LONG CT WEST		1							1			1	803.96	800.83	2.08
9.3	10+61.52	29.5' LT	LONG CT WEST		1							1			1	803.97	800.83	2.34
9.4	122+75.00	15.7' RT	SPENCER CONST CL				1					1			1	805.40	800.74	3.75
10.1	126+44.00	23.8' LT	SPENCER CONST CL				1					1			1	801.59	797.34	3.35
10.2	126+44.00	15.7' RT	SPENCER CONST CL				1					1			1	801.75	797.50	3.33
11.1	127+43.50	38' RT	SPENCER CONST CL		1							1			1	799.35	795.98	2.32
12.1	129+94.00	23.8' LT	SPENCER CONST CL				1					1			1	797.35	793.31	3.14
12.2	129+94.00	15.7' RT	SPENCER CONST CL				1					1			1	797.51	793.29	3.30
13.1	133+35.00	23.8' LT	SPENCER CONST CL				1					1			1	790.58	786.87	2.81
13.2	133+35.00	15.7' RT	SPENCER CONST CL				1					1			1	790.74	786.85	2.99
14.1	133+86.50	44' LT	SPENCER CONST CL		1							1			1	790.70	786.35	3.36
15.1	135+40.14	23.3' LT	SPENCER CONST CL				1					1			1	788.85	784.42	3.51
16.1	10+60.95	24.6' LT	LONG CT EAST		1							1			1	786.67	783.73	2.07
16.2	10+48.00	27' RT	LONG CT EAST		1							1			1	789.50	783.72	4.71
16.3	10+50.00	0' RT	LONG CT EAST	1				1							1	789.14	783.60	4.51
16.4	135+85.99	15.7' RT	SPENCER CONST CL				1					1			1	788.27	783.68	3.67
17.1	138+46.00	23.8' LT	SPENCER CONST CL				1					1			1	784.96	780.46	3.58
17.2	138+46.00	15.7' RT	SPENCER CONST CL				1					1			1	785.12	781.08	3.12
18.1	140+92.00	23.8' LT	SPENCER CONST CL				1					1			1	783.89	779.39	3.58
18.2	140+92.00	15.7' RT	SPENCER CONST CL				1					1			1	784.05	779.55	3.58
19.1	141+39.00	45' LT	SPENCER CONST CL		1							1			1	782.60	778.26	3.29
20.1	142+60.00	40' LT	SPENCER CONST CL		1							1			1	782.00	777.50	3.43
21.1	143+49.00	46' LT	SPENCER CONST CL		1							1			1	779.10	775.07	3.04
22.1	144+58.00	23.8' LT	SPENCER CONST CL				1					1			1	778.84	774.34	3.58
22.2	144+58.00	15.7' RT	SPENCER CONST CL				1					1			1	779.00	774.50	3.58
23.1	10+61.89	27.3' LT	MAPLE HILL DR		1							1			1	776.21	772.93	2.23
23.2	10+75.00	27' RT	MAPLE HILL DR		1							1			1	776.25	772.96	2.23
23.3	10+50.00	0' RT	MAPLE HILL DR	1				1							1	778.73	772.77	4.93
24.1	148+11.00	43' LT	SPENCER CONST CL		1							1			1	774.10	770.19	2.88
24.2	148+15.00	23.8' LT	SPENCER CONST CL				1					1			1	774.29	770.11	3.30

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

*** DEPTH = RIM ELEV - (INVERT ELEVATION OF LOWEST PIPE + PIPE THICKNESS) - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT (UNLESS OTHERWISE NOTED)

STORM SEWER STRUCTURES

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

STRUCTURE	STATION	OFFSET*	LOCATION	611.0530 Manhole Covers Type J EACH	611.0612 Inlet Covers Type C EACH	611.0639 Inlet Covers Type H-S EACH	611.0666 Inlet Covers Type Z EACH	611.2004 Manholes 4-FT Diameter EACH	611.2005 Manholes 5-FT Diameter EACH	611.2006 Manholes 6-FT Diameter EACH	611.2008 Manholes 8-FT Diameter EACH	611.3003 Inlets 3-FT Diameter EACH	611.3230 Inlets 2x3-FT EACH	SPV.0060.01 Manholes 8FTx8FT EACH	650.4000 Construction Staking Storm Sewer EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT
24.3	148+15.00	15.7' RT	SPENCER CONST CL				1					1			1	774.45	770.25	3.30
26.1	9+58.71	15.5' RT	WILD ROSE LN			1							1		1	775.15	770.65	3.67
26.2	9+56.33	15.5' LT	WILD ROSE LN			1							1		1	775.14	770.81	3.50
27.1	150+75.00	23.8' LT	SPENCER CONST CL				1					1			1	774.34	769.84	3.58
29.1	10+61.41	23.1' LT	MISTY LN		1							1			1	772.90	769.14	2.77
32.1	152+38.00	15.7' RT	SPENCER CONST CL				1					1			1	773.84	769.45	3.49
33.1	162+44.01	44.8' LT	SPENCER CONST CL		1							1			1	772.25	768.80	2.40
33.2	162+72.00	23.8' LT	SPENCER CONST CL				1					1			1	773.20	768.73	3.57
33.3	163+00.00	38' RT	SPENCER CONST CL		1							1			1	772.12	768.78	2.29
33.4	162+71.00	15.7' RT	SPENCER CONST CL				1					1			1	773.36	768.71	3.76
34.1	161+50.55	46.5' LT	SPENCER CONST CL		1							1			1	772.40	768.63	2.72
35.1	159+78.95	43.6' LT	SPENCER CONST CL		1							1			1	772.35	768.35	2.95
35.2	159+38.00	23.8' LT	SPENCER CONST CL				1					1			1	772.92	768.26	3.77
35.3	159+38.00	15.7' RT	SPENCER CONST CL				1					1			1	773.08	768.73	3.45
36.1	156+75.00	23.8' LT	SPENCER CONST CL				1					1			1	772.86	769.26	2.68
36.2	156+82.00	15.7' RT	SPENCER CONST CL				1					1			1	773.02	769.24	2.88
38.1	153+75.00	23.8' LT	SPENCER CONST CL				1					1			1	773.12	769.29	2.93
38.2	153+75.00	15.7' RT	SPENCER CONST CL				1					1			1	773.02	769.33	2.77
			TOTALS	39	22	2	34	14	14	6	4	55	2	2	97			

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

*** DEPTH = RIM ELEV - (INVERT ELEVATION OF LOWEST PIPE + PIPE THICKNESS) - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT (UNLESS OTHERWISE NOTED)

PIPE UNDERDRAIN WRAPPED 6-INCH

STATION	LOCATION	612.0406 LF	REMARKS
115+61	INLET 5.1	50	
115+61	INLET 5.2	50	
122+32.5	INLET 8.1	25	
122+75	INLET 9.4	25	
135+40.14	INLET 15.1	25	
135+85.99	INLET 16.4	25	
144+58	INLET 22.1	25	
144+58	INLET 22.2	25	
148+15	INLET 24.2	50	
162+72	INLET 33.2	50	
163+00	INLET 33.3	50	
159+78.95	INLET 35.1	50	
159+30	INLET 35.3	50	
156+75	INLET 36.1	50	
156+82	INLET 36.2	50	
138+46	INLET 17.1	25	
138+46	INLET 17.2	25	
148+15	INLET 24.3	50	
153+75	INLET 38.1	50	
153+75	INLET 38.2	50	
-	UNDISTRIBUTED	500	INLETS
-	UNDISTRIBUTED	1000	EDGEDRAINS
	PROJECT TOTAL	2300	

ADJUSTING MANHOLE COVERS

STATION	LOCATION	CAT 0020 611.8110 EACH	REMARKS
STA. 156+85 LT	W. SPENCER ST.	1	SANITARY
	PROJECT TOTAL	1	

LANDMARK REFERENCE MONUMENTS

STATION	LOCATION	621.0100 EACH	DESCRIPTION
STA. 138+13.07 LT	W. SPENCER ST.	1	1/4 CORNER, SECTION 30,T21N R17E
-	W. SPENCER ST.	4	WITNESS MONUMENTS
	PROJECT TOTAL	5	

LANDSCAPING SUMMARY

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2006 EROSION MAT, CLASS I URBAN, TYPE A SY	628.2008 EROSION MAT, CLASS I URBAN, TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
110+00 - 122+75	W. SPENCER ST LT.	2052	-	1352	700	1.3	37	-	-	2.1
122+75 - 135+75	W. SPENCER ST LT.	2587	-	1631	956	1.6	47	-	-	2.6
135+75 - 145+00	W. SPENCER ST LT.	2151	-	1387	764	1.6	39	-	-	2.2
145+00 - 151+20	W. SPENCER ST LT.	1146	-	613	533	0.7	21	-	-	1.2
151+20 - 164+15	W. SPENCER ST LT.	2116	-	1466	650	1.3	38	-	-	2.6
110+00 - 149+75	W. SPENCER ST RT.	6023	-	3993	2030	3.8	1.8	-	-	6.0
149+75 - 152+75	W. SPENCER ST RT.	455	-	380	82	0.3	8	-	-	0.6
152+75 - 164+21	W. SPENCER ST RT.	2130	-	1505	625	1.3	38	-	-	2.7
-	WASTE SITE(S)	-	20000	-	-	13.0	-	-	270	-
UNDISTRIBUTED	W. SPENCER ST RT. & LT.	500	500	300	200	0.3	10	150.0	-	0.6
	PROJECT TOTALS	19160	20500	12627	6540	25	240	150	270	21

ROCK BAGS
628.7570

STATION - STATION	LOCATION	EACH
UNDISTRIBUTED	SPENCER STREET	50
	PROJECT TOTAL	50

TRACKING PADS
628.7560

STATION	LOCATION	EACH
110+50	SPENCER STREET	2
163+75	SPENCER STREET	2
	PROJECT TOTAL	4

INLET PROTECTION

STRUCTURE TYPE	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROPOSED	W.SPENCER LT	19		10	7
PROPOSED	W. SPENCER RT	15		11	6
PROPOSED	LONG CT WEST	2			
PROPOSED	LONG CT EAST	2			
PROPOSED	MAPLE HILL DR	2			
PROPOSED	WILD ROSE LN	2		2	
EXISTING	WILD ROSE LN		2		
PROPOSED	MISTY LANE	2			
EXISTING	GOLDEN ROD DR		2		
	PROJECT TOTALS	44	4	23	13

DITCH CHECKS AND CULVERT PIPE CHECKS

STATION - STATION	LOCATION	TEMPORARY DITCH CHECK 628.7504 LF	CULVERT PIPE CHECK 628.7555 EACH
111+80 RT	SPENCER ST	10	
141+30 LT	SPENCER ST	10	
160+00 RT	SPENCER ST	10	
161+00 RT	SPENCER ST	10	
163+17 RT	SPENCER ST	10	
STA 158+00	87" X 63" CSCP CROSSINGS		21
11+10 RT	LONG COURT(EAST)		1
UNDISTRIBUTED	SPENCER ST	50	15
	PROJECT TOTAL	100	37

SILT FENCE

STATION TO STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
110+00 TO 164+05	W. SPENCER ST, LEFT	200	200
110+64 TO 164+05	W. SPENCER ST, RIGHT	1050	1050
110+64 TO 164+05	UNDISTRIBUTED	500	500
	PROJECT TOTALS	1750	1750

MOBILIZATIONS

STATION TO STATION	LOCATION	628.1905 EROSION CONTROL EACH	628.1910 EMERGENCY EROSION CONTROL EACH
110+00 TO 164+05	W. SPENCER ST	6	6
	PROJECT TOTALS	6	6

SIGNING

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

SIGN #	STATION	LOCATION	SIGN CODE	SIZE W X H	637.2210 SIGNS TYPE II REFLECTIVE H SF	SPV.0060.05 POSTS STEEL 2 3/8 INCH 10-FT EACH	638.2602 REMOVING SIGNS TYPE II EA	638.3000 REMOVING SMALL SIGN SUPPORTS EA	REMARKS
1.1	108+98 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	1	1	
1.2	108+98 RT.	WEST SPENCER ST.	R3-17A	30" X 12"	2.50	-	-	-	MOUNT WITH SIGN 1.1
1.3	110+24 RT.	WEST SPENCER ST.	R1-1	30" X 30"	6.25	1	1	1	
1.4	110+55 RT.	WEST SPENCER ST.	R5-2	24" X 24"	4.00	1	1	1	
1.5	110+96 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
1.6	110+96 RT.	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 1.5
1.7	112+58 RT.	WEST SPENCER ST.	R2-1	24" X 30"	5.00	1	1	1	
1.8	110+35 LT.	WEST SPENCER ST.	R1-1	30" X 30"	6.25	1	1	1	
1.9	113+47 LT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
1.10	113+47 LT.	WEST SPENCER ST.	R3-17B	30" X 12"	2.50	-	-	-	MOUNT WITH SIGN 1.9
2.1	115+95 LT.	WEST SPENCER ST.	W3-1	36" X 36"	9.00	1	1	1	
2.2	117+90 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
2.3	117+90 RT.	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 2.2
3.1	121+61 LT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
3.2	122+55 LT.	WEST SPENCER ST.	R1-1	30" X 30"	6.25	1	1	1	
3.2A	122+55 LT.	WEST SPENCER ST.	-	" X "	0.00	-	2	-	
3.3	123+03 LT.	WEST SPENCER ST.	R2-1	24" X 30"	5.00	1	1	1	
3.4	122+14 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
3.5	122+14 RT.	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 3.4
4.1	129+35 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
4.2	129+35 RT.	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 4.2
5.1	135+10 LT	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
5.2	135+62 LT.	WEST SPENCER ST.	R1-1	30" X 30"	6.25	1	1	1	
5.2A	135+62 LT.	WEST SPENCER ST.	-	" X "	0.00	-	2	-	
5.3	133+94 RT	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
5.4	133+94 RT.	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 5.4
6.1	137+39 LT.	WEST SPENCER ST.	R2-1	24" X 30"	5.00	1	1	1	
6.2	138+36 RT.	WEST SPENCER ST.	R1-5L	18" X 18"	2.25	1	-	-	
6.3	138+97 LT.	WEST SPENCER ST.	R1-5L	18" X 18"	2.25	1	-	-	
6.4	140+81 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
6.5	140+81 RT.	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 6.5
7.1	144+27 LT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
7.2	144+80 LT	WEST SPENCER ST.	R1-1	30" X 30"	6.25	1	1	1	
7.3	145+30 LT.	WEST SPENCER ST.	W14-2	30" X 30"	6.25	1	1	1	
7.4	145+22 LT	WEST SPENCER ST.	-	" X "	0.00	1	2	-	
7.5	146+09 RT	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
7.6	146+09 RT	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 7.5
8.1	148+31 RT.	WEST SPENCER ST.	R2-1	24" X 30"	5.00	1	1	1	
8.2	149+96 RT.	WEST SPENCER ST.	R1-1	30" X 30"	6.25	1	1	1	
8.2A	149+96 RT.	WEST SPENCER ST.	-	" X "	0.00	-	2	-	
8.3	151+20 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
8.4	151+20 RT.	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 8.3
8.5	150+41 LT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
8.6	150+96 LT.	WEST SPENCER ST.	R1-1	30" X 30"	6.25	1	1	1	
8.6A	150+96 LT.	WEST SPENCER ST.	-	" X "	0.00	-	2	-	
8.7	152+82 LT.	WEST SPENCER ST.	W1-7	48" X 24"	8.00	1	1	1	
9.1	153+03 RT.	WEST SPENCER ST.	R1-1	30" X 30"	6.25	1	1	1	
9.1A	153+03 RT.	WEST SPENCER ST.	-	" X "	0.00	-	2	-	
9.2	153+76 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
9.3	153+76 RT.	WEST SPENCER ST.	R7-1D	18" X 24"	3.00	-	-	-	MOUNT WITH SIGN 9.2
10.1	159+67 RT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
10.2	159+67 RT.	WEST SPENCER ST.	R3-17B	30" X 12"	2.50	-	-	-	MOUNT WITH SIGN 10.1
10.3	160+61 RT.	WEST SPENCER ST.	W3-1	36" X 36"	9.00	1	1	1	
10.4	162+05 RT.	WEST SPENCER ST.	R3-8	36" X 30"	7.50	1	1	1	
10.6	162+73 LT.	WEST SPENCER ST.	R2-1	24" X 30"	5.00	1	1	1	
10.7	163+48 LT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
11.1	165+50 LT.	WEST SPENCER ST.	R3-17	30" X 24"	5.00	1	-	-	
11.2	165+50 LT.	WEST SPENCER ST.	R3-17A	30" X 12"	2.50	-	-	-	MOUNT WITH SIGN 11.1
		PROJECT TOTALS			250.25	40	32	20	

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

TRAFFIC CONTROL SUMMARY

LOCATION	SERVICE DAYS	643.0300 DRUMS NO	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III NO	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A NO	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO	643.0715 WARNING LIGHTS TYPE C DAYS	643.0900 SIGNS NO	643.0900 SIGNS DAYS
SPENCER ST (AT BEGIN PROJECT)	155	--	--	6	930	8	1240	--	--	--	--
SIDEROAD CLOSURES	155	--	--	36	5580	48	7440	--	--	40	6200
SPENCER ST (AT END PROJECT)	155	--	--	6	930	8	1240	--	--	--	--
SPENCER ST (WITHIN PROJECT)	155	100	15500	--	--	--	--	--	--	--	--
UNDISTRIBUTED	155	50	7750	10	1550	10	1550	25	3875	10	1550
PROJECT TOTALS	150	23250	58	8990	74	11470	25	3875	50	7750	

CONSTRUCTION STAKING

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.6000 PIPE CULVERTS EACH	650.9920 SLOPE STAKES LF	650.9910 SUPPLEMENTAL CONTROL LF
110+15.79 - 164+04.73	SPENCER	5389	5389	-	5389	1
10+00 - 12+12	LONG COURT (WEST)	212	212	-	212	-
10+00 -11+60	LONG COURT (EAST)	160	160	-	160	-
10+00 - 11+52.50	MAPLE HILL	153	153	-	153	-
8+74.99 - 10+00	WILD ROSE	125	125	-	125	-
10+00 - 11+12.22	MISTY	113	113		113	-
8+94.99 - 10+00	GOLDEN ROD	105	105		105	-
158+00	87" X 63" PIPE CROSSING			2		
PROJECT TOTALS		6257	6257	2	6257	1

NOTE - STORM SEWER STAKING QUANTITY INCLUDED IN STORM SEWER STRUCTURE TABLE
NOTE - CURB & GUTTER STAKING QUANTITY INCLUDED IN CURB QUANTITY TABLE

PAVEMENT MARKING EPOXY

STATION TO STATION	LOCATION	646.1020 MARKING LINE 4-INCH (White) LF	646.1020 MARKING LINE 4-INCH (Yellow) LF	646.3020 MARKING LINE 8-INCH LF	646.5020 MARKING ARROW EACH	646.5120 MARKING WORDS EACH	646.5220 MARKING SYMBOL EACH	646.6020 MARKING STOP LINE 12-INCH LF	646.7420 MARKING TRAVERSE LINE 6-INCH LF	646.8120 MARKING CURB LF
110+00 TO 122+75	W. SPENCER ST	3399	2456	-	-	3	8	40	153	55
122+75 TO 135+85	W. SPENCER ST	3754	2434	-	-		8	16	160	30
135+85 TO 145+02	W. SPENCER ST	2540	1672	-	-	-	10	17	156	70
145+02 TO 151+15	W. SPENCER ST	1846	864	-	-	-	6	29	292	60
151+15 TO 164+05	W. SPENCER ST	3315	2320	75	6	4	4	40	240	175
PROJECT TOTALS		14854	9746	75	6	7	36	142	1001	390
		Total 4-INCH = 24600								

ADJUSTING CURB STOP BOXES
CAT 0020
SPV.0060.03

STATION	OFFSET	EACH
111+45	11' RT	1
112+66	59' LT	1
113+62	60' LT	1
114+55	6' RT	1
114+64	60' LT	1
115+64	54' LT	1
115+88	12' RT	1
116+47	54' LT	1
117+12	18' RT	1
117+97	52' LT	1
118+11	19' RT	1
118+51	52' LT	1
119+77	19' RT	1
119+79	59' LT	1
120+81	18' RT	1
120+82	59' LT	1
121+77.5	60' LT	1
123+13	12' RT	1
123+77	12' RT	1
125+35	13' RT	1
126+01	54' LT	1
126+25	13' RT	1
127+17	53' LT	1
128+64	13' RT	1
128+94	53' LT	1
129+51	53' LT	1
129+51.5	13' RT	1
130+51	13' RT	1
131+70`	53' LT	1
132+00	13' RT	1
133+07	13' RT	1
133+51	60' LT	1

ADJUSTING CURB STOP BOXES
CAT 0020
SPV.0060.03

STATION	OFFSET	EACH
135+73	13' RT	1
138+45	9' RT	1
139+89	58' LT	1
141+56.5	51' LT	1
142+79	51.5' LT	1
144+21	14' RT	1
147+87	8' LT	1
147+91	8' LT	1
148+77.5	6.5' LT	1
149+96.5	10' LT	1
150+93.5	16' LT	1
152+19	12' LT	1
153+14.5	11' LT	1
153+97	10' LT	1
154+98	9' LT	1
155+85.5	8' LT	1
157+16	7' LT	1
158+37.5	6' LT	1
158+78	6' LT	1
160+02	5' LT	1
161+08	4.5' LT	1
161+99	6' LT	1
163+35.5	11' LT	1
PROJECT TOTALS :		55

3

SAWING ASPHALT
690.0150

STATION	LOCATION	LF	DESCRIPTION
110+16	W. SPENCER ST.	115	MATCH POINT
112+91 RT.	W. SPENCER ST.	24	DRIVEWAY
114+40 RT.	W. SPENCER ST.	19	DRIVEWAY
115+25 RT.	W. SPENCER ST.	18	DRIVEWAY
116+96 RT.	W. SPENCER ST.	18	DRIVEWAY
118+73 RT.	W. SPENCER ST.	12	DRIVEWAY
122+41 RT.	W. SPENCER ST.	12	DRIVEWAY
123+61 RT.	W. SPENCER ST.	17	DRIVEWAY
125+0 LT.	W. SPENCER ST.	20	DRIVEWAY
126+65 LT.	W. SPENCER ST.	20	DRIVEWAY
128+18 LT.	W. SPENCER ST.	22	DRIVEWAY
130+36 LT.	W. SPENCER ST.	23	DRIVEWAY
131+26 RT.	W. SPENCER ST.	23	DRIVEWAY
132+66 LT.	W. SPENCER ST.	16	DRIVEWAY
134+88 RT.	W. SPENCER ST.	16	DRIVEWAY
138+68 RT.	W. SPENCER ST.	11	DRIVEWAY
146+21 LT.	W. SPENCER ST.	21	DRIVEWAY
148+77 LT.	W. SPENCER ST.	22	DRIVEWAY
154+62 LT.	W. SPENCER ST.	12	DRIVEWAY

SAWING CONCRETE
690.0250

STATION	LOCATION	LF	DESCRIPTION
110+16 LT. & RT.	W. SPENCER ST.	5	CURB MATCH POINTS
110+80 RT.	W. SPENCER ST.	21	DRIVEWAY
110+87 LT.	W. SPENCER ST.	11	DRIVEWAY
112+18 RT.	W. SPENCER ST.	21	DRIVEWAY
121+70 RT.	W. SPENCER ST.	18	DRIVEWAY
126+61 RT.	W. SPENCER ST.	15	DRIVEWAY
128+40 RT	W. SPENCER ST.	12	DRIVEWAY
141+75 LT.	W. SPENCER ST.	25	DRIVEWAY
145+30 RT.	W. SPENCER ST.	17	DRIVEWAY
160+89 LT.	W. SPENCER ST.	20	DRIVEWAY
162+17 LT.	W. SPENCER ST.	22	DRIVEWAY
164+05 LT. & RT.	W. SPENCER ST.	5	CURB MATCH POINTS
8+74.99	WILD ROSE LANE	5	CURB MATCH POINTS
9+39 LT	WILD ROSE LANE	19	DRIVEWAY
8+95 RT & LT.	GOLDEN ROD DR.	5	CURB MATCH POINTS
9+21 LT	GOLDEN ROD DR.	21	DRIVEWAY
	PROJECT TOTAL	242	

SAWING ASPHALT
690.0150

STATION	LOCATION	LF	DESCRIPTION
156+30 LT	W. SPENCER ST.	19	DRIVEWAY
158+92 LT.	W. SPENCER ST.	15	DRIVEWAY
164+05	W. SPENCER ST.	43	MATCH POINT
12+12	LONG CT. (WEST)	22	MATCH POINT
11+73 RT	LONG CT. (WEST)	15	DRIVEWAY
11+98 LT	LONG CT. (WEST)	20	DRIVEWAY
11+60	IONG CT. (EAST)	20	MATCH POINT
10+90 RT	LONG CT (EAST)	20	DRIVEWAY
11+52.5	MAPLE HII DR.	21	MATCH POINT
8+74.99	WILD ROSE LN.	28	MATCH POINT
11+12	MISTY LN.	55	MATCH POINT
8+95	GOLDEN ROD LN	28	MATCH POINT
9+21 LT	GOLDEN ROD LN	20	DRIVEWAY
	PROJECT TOTAL	767	

ADJUSTING WATER VALVE BOXES
CAT 0020
SPV.0060.02

STATION	LOCATION	DESCRIPTION	EACH
112+19	11' RT.	SPENCER ST.	1
112+23	32' LT.	SPENCER ST.	1
112+65	18' RT.	SPENCER ST.	1
119+24	20' RT.	SPENCER ST.	1
122+59	18' RT.	SPENCER ST.	1
122+62	12' RT.	SPENCER ST.	1
122+66	17' RT.	SPENCER ST.	1
124+73	20' RT.	SPENCER ST.	1
128+74	19' RT.	SPENCER ST.	1
132+74	19' RT.	SPENCER ST.	1
135+64	35' LT.	SPENCER ST.	1
135+65	17' RT.	SPENCER ST.	1
135+68	10' RT.	SPENCER ST.	1
138+79	15' RT.	SPENCER ST.	1
144+81	15' RT.	SPENCER ST.	1
144+81	40' LT.	SPENCER ST.	1
148+00	32' LT.	SPENCER ST.	1
149+63	35' RT.	SPENCER ST.	1
149+64	31' LT.	SPENCER ST.	1
149+96	32' LT.	SPENCER ST.	1
152+43	33' LT.	SPENCER ST.	1
152+54	56' RT.	SPENCER ST.	1
156+65	34' LT	SPENCER ST.	1
	PROJECT TOTAL		23

SANITARY MANHOLE RECONSTRUCTS
CAT 0020
SPV.0060.10

STATION	LOCATION	EXISTING ELEV.	PROPOSED ELEV.	EACH
112+98 13' RT.	W. SPENCER ST.	819.31	817.00	1
116+98 13' RT.	W. SPENCER ST.	816.91	814.96	1
120+96 14' RT.	W. SPENCER ST.	811.14	808.42	1
124+99 14' RT.	W. SPENCER ST.	805.30	802.99	1
128+96 12' RT.	W. SPENCER ST.	800.46	798.82	1
				1
133+00 12' RT.	W. SPENCER ST.	794.6	791.5	1
135+73 11' RT.	W. SPENCER ST.	791.42	788.9	1
136+91 11' RT.	W. SPENCER ST.	790.12	787.31	1
140+86 10' RT.	W. SPENCER ST.	785.64	784.19	1
144+88 10'RT	W. SPENCER ST.	780.5	778.66	1
148+01 21' LT.	W. SPENCER ST.	777.67	774.35	1
151+15 21' LT.	W. SPENCER ST.	776.15	774.22	1
152+84 21' LT.	W. SPENCER ST.	775.8	773.53	1
9+76 1 ' LT.	WILD ROSE LANE	777.29	775.12	1
	PROJECT TOTAL			15

3

CULVERT PIPE CORRUGATED STEEL

STATION	LOCATION	SPV.0090.05 87 X 63-Inch LF
158+00	W. SPENCER ST.	180 (2 X 90)
	PROJECT TOTAL	180

SALVAGE AND RESET LANDSCAPE TIMBERS

SPV.0090.11

STATION TO STATION	LOCATION	LF
STA. 123+50 - 123+70	SPENCER ST RT.	40
	PROJECT TOTAL	40

REMOVING FENCE, SALVAGE AND RESET FENCE

STATION TO STATION	LOCATION	204.0170 REMOVING FENCE LF	SPV.0090.10 SALVAGE AND RESET FENCE LF
117+50 TO 118+50	W. SPENCER ST LT.	100	-
162+84	W. SPENCER ST RT.	-	20
164+00	W. SPENCER ST RT.	-	20
	PROJECT TOTAL	100	40

SALVAGE AND RESET DRIVEWAY PAVER BRICKS

SPV.0165.02

STATION	LOCATION	SF
STA. 121+69	W. SPENCER ST RT.	145
	PROJECT TOTAL	145

SALVAGE AND RESET DRIVEWAY PAVER BRICKS

SPV.0165.02

STATION	LOCATION	SF
STA. 121+69	W. SPENCER ST RT.	145
	PROJECT TOTAL	145

STORM SEWER LATERALS

CAT 0020

STATION	LOCATION	SPV.0090.02 4-INCH S.Y.	SPV.0090.03 6-INCH S.Y.	SPV.0060.04 CLEANOUT EACH
110+97 LT.	SPENCER ST	40	-	1
111+42 RT	SPENCER ST	31	-	1
111+94 RT	SPENCER ST	5	-	1
112+60 LT.	SPENCER ST	5	-	1
113+57 LT.	SPENCER ST	40	-	1
113+75 RT	SPENCER ST	31	-	1
114+61 LT.	SPENCER ST	39	-	1
115+61 LT.	SPENCER ST	16	-	1
115+61 RT	SPENCER ST	16	-	1
116+42 LT.	SPENCER ST	39	-	1
117+09 RT	SPENCER ST	31	-	1
117+91 LT.	SPENCER ST	39	-	1
118+17 RT	SPENCER ST	31	-	1
118+46 LT.	SPENCER ST	39	-	1
119+75 RT	SPENCER ST	31	-	1
119+75 LT.	SPENCER ST	39	-	1
120+86 LT.	SPENCER ST	15	-	1
121+51 RT	SPENCER ST	31	-	1
121+73 LT.	SPENCER ST	39	-	1
122+23 RT	SPENCER ST	31	-	1
COLUMN TOTALS		588	0	20

STATION	LOCATION	SPV.0090.02 4-INCH S.Y.	SPV.0090.03 6-INCH S.Y.	SPV.0060.04 CLEANOUT EACH
123+17 RT.	SPENCER ST	31	-	1
123+78 RT.	SPENCER ST	31	-	1
123+80 LT.	SPENCER ST	39	-	1
125+22 RT.	SPENCER ST	31	-	1
125+83 LT.	SPENCER ST	39	-	1
127+34 RT.	SPENCER ST	31	-	1
127+38 LT.	SPENCER ST	39	-	1
128+34 LT.	SPENCER ST	39	-	1
129+94 RT.	SPENCER ST	16	-	1
130+11 LT.	SPENCER ST	39	-	1
131+09 LT.	SPENCER ST	39	-	1
133+11 RT	SPENCER ST	31	-	1
133+34 LT.	SPENCER ST	16	-	1
134+70 LT.	SPENCER ST	39	-	1
135+77 RT.	SPENCER ST	31	-	1
136+83 LT.	SPENCER ST	-	39	1
139+78 LT.	SPENCER ST	39		1
141+50 LT.	SPENCER ST	39	-	1
142+60 RT.	SPENCER ST	31	-	1
143+49 LT.	SPENCER ST	5		1
144+72 RT.	SPENCER ST	31	-	1
146+05 LT	SPENCER ST	39	-	1
COLUMN TOTALS		675	39	22

STATION	LOCATION	SPV.0090.02 4-INCH S.Y.	SPV.0090.03 6-INCH S.Y.	SPV.0060.04 CLEANOUT EACH
147+23 LT.	SPENCER ST	-	39	1
148+15 LT.	SPENCER ST	16	-	1
148+36 RT.	SPENCER ST	31	-	1
149+71 LT.	SPENCER ST	39	-	1
150+59 LT.	SPENCER ST	39	-	1
150+66 RT.	SPENCER ST	31	-	1
151+64 RT	SPENCER ST	31	-	1
152+15 LT.	SPENCER ST	39	-	1
153+05 LT.	SPENCER ST	39	-	1
153+95 LT.	SPENCER ST	39	-	1
154+79 RT	SPENCER ST	31	-	1
154+93 LT.	SPENCER ST	16	-	1
155+64 RT.	SPENCER ST	31	-	1
155+93 LT.	SPENCER ST	39	-	1
156+94 RT.	SPENCER ST	16	-	1
159+38 LT.	SPENCER ST	16	-	1
161+41 LT.	SPENCER ST	39	-	1
161+55 LT.	SPENCER ST	39	-	1
162+72 LT.	SPENCER ST	66	-	1
COLUMN TOTALS		597	39	19
PROJECT TOTALS		1860	78	61

CONVENTIONAL SYMBOLS

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

SECTION CORNER SYMBOL (16 23 24 15 9)
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN (I-25)

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

	COMPENSABLE	NON-COMPENSABLE
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

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SLOPE INTERCEPT	SI
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	NGS		
NUMBER	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

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), OUTAGAMIE COUNTY, NAD 83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE REBAR AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

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

CONVENTIONAL UTILITY SYMBOLS

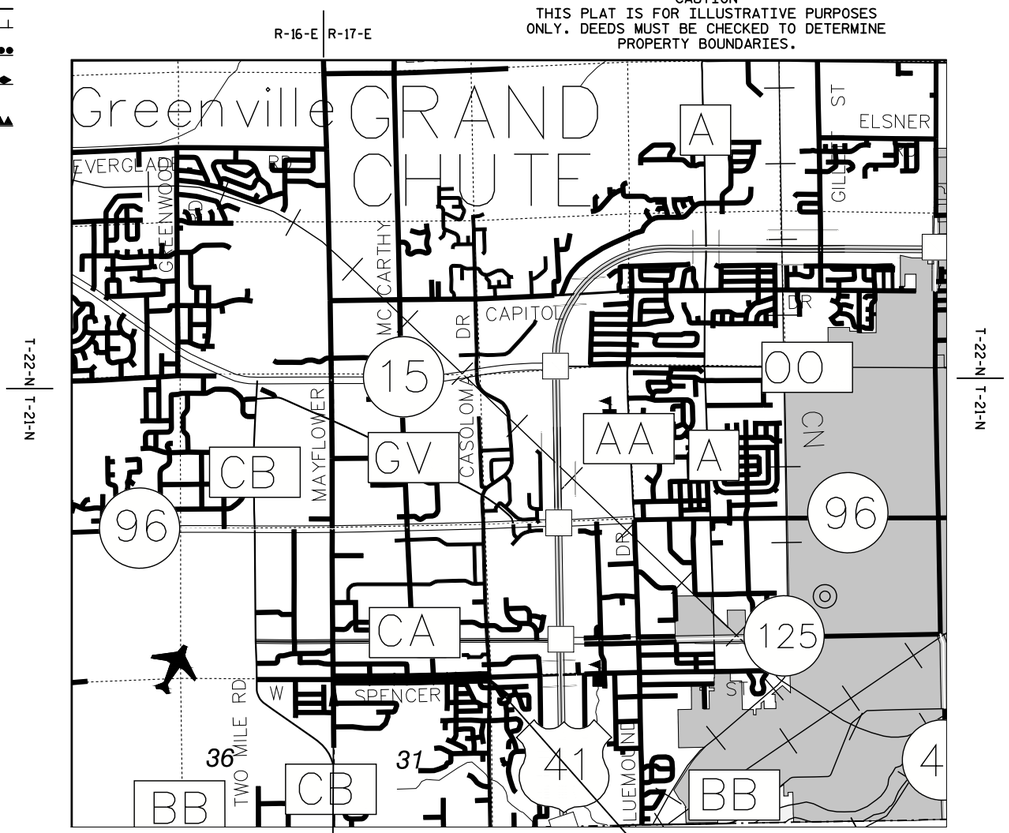
WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

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. TLE AREAS ARE TO THE FACE OF THE BUILDING FOR SLOPING, NOT WITHIN THE BUILDING.

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.

CAUTION
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.



LAYOUT
SCALE 0 — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 1.02

BEGIN RELOCATION ORDER STA 110+15.17
15.14' EAST AND 5.14' SOUTH OF THE NORTHWEST CORNER OF SECTION 31, TOWNSHIP 21 NORTH, RANGE 17 EAST

END RELOCATION ORDER STA 164+25.00
19.98' WEST AND 4.19' SOUTH OF THE NORTHEAST CORNER OF SECTION 31, TOWNSHIP 21 NORTH, RANGE 17 EAST

N

R/W PROJECT NUMBER 4657-25-00	SHEET NUMBER	TOTAL SHEETS
R/W PROJECT NUMBER 4657-25-00	4.01	15

PLAT OF RIGHT OF WAY REQUIRED FOR

MAYFLOWER ROAD - CASALOMA DRIVE
TOWN OF GRAND CHUTE

W. SPENCER STREET — OUTAGAMIE CO.

BASIS FOR EXISTING R/W

GOVERNMENT CORNERS PER OUTAGAMIE COUNTY COORDINATE SYSTEM

SUBDIVISION PLATS
- DONEGAL MAY 20, 1987
- LONG ACRES PLAT JULY 08, 1955
- CASALOMA WEST JUNE 10, 1980
- CASALOMA WEST 2ND MARCH 03, 1986
- VAN ROOY SUBDIVISION MARCH 16, 1956
- MAYFLOWER MANOR JANUARY 18, 1961
- MEADOWS OF MARY ELLEN AND WALTER JUNE 28, 2017

CERTIFIED SURVEY MAPS
- CSM NO. 6002 DOCUMENT NO. 1842526 JULY 09, 2009
- CSM NO. 3923 DOCUMENT NO. 1387384 NOVEMBER 27, 2000
- CSM NO. 1347 DOCUMENT NO. 1046089 JULY 27, 1992
- CSM NO. 522 DOCUMENT NO. 956179 APRIL 05, 1989
- CSM NO. 1446 DOCUMENT NO. 1056086 OCTOBER 26, 1992
- CSM NO. 2340 DOCUMENT NO. 1167182 SEPTEMBER 26, 1995
- CSM NO. 6463 DOCUMENT NO. 1950913 JULY 03, 2012
- CSM NO. 1054 DOCUMENT NO. 1014968 SEPTEMBER 09, 1991
- CSM NO. 2087 DOCUMENT NO. 1142215 DECEMBER 06, 1994
- CSM NO. 6554 DOCUMENT NO. 1967883 NOVEMBER 29, 2012
- CSM NO. 117 DOCUMENT NO. 716093 SEPTEMBER 15, 1976
- CSM NO. 120 DOCUMENT NO. 717680 OCTOBER 18, 1976
- CSM O. 1992 DOCUMENT NO. 1132716 AUGUST 16, 1994

DEEDS OF RECORD
- DOCUMENT NO. 1743818 MARCH 07, 2007
- DOCUMENT NO. 971420 DECEMBER 05, 1989
- DOCUMENT NO. 976655 MARCH 14, 1990
- DOCUMENT NO. 1953310 JULY 26, 2012
- DOCUMENT NO. 1848710 SEPTEMBER 03, 2009
- DOCUMENT NO. 1835590 MAY 26, 2009
- DOCUMENT NO. 844260 MAY 04, 1984
- DOCUMENT NO. 1132427 AUGUST 12, 1994
- DOCUMENT NO. 1754414 JUNE 06, 2007
- DOCUMENT NO. 1415449 JULY 06, 2001
- DOCUMENT NO. 1972063 JANUARY 08, 2013
- DOCUMENT NO. 1224174 APRIL 23, 1997
- DOCUMENT NO. 1967688 NOVEMBER 28, 2012
- DOCUMENT NO. 1824050 FEBRUARY 25, 2009

FOUND SURVEY MONUMENTATION AS SHOWN ON THIS PLAT OF RIGHT-OF-WAY

PLAT OF SURVEYS

ORIGINAL PLANS PREPAED BY MCMAHON

WISCONSIN
DAVID M. SCHMALZ
S-1284
NEENAH WIS.
LAND SURVEYOR

May 2, 2018 — David M. Schmalz
DATE — SIGNATURE

REVISION DATE	TOWN OF GRAND CHUTE
	DATE: _____ (Signature) _____ (Print Name)

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\04-RW PLAT\SPENCER-01-TITLE.DWG
LAYOUT NAME - SPENCER ST-01RW
PLOT DATE : 12/19/2018 2:49 PM PLOT BY : CHRIS CLEMENS PLOT NAME :
WISDOT/CADDS SHEET 50

SCHEDULE OF LAND & INTEREST REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	TAX KEY NUMBER	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
3	4.05	Patrick J. Jacobs and Lori L. Jacobs	101126301	TLE/PLE	–	–	–	0.063	0.019
4	4.05	Donald K. Young and Byrdene M. Young	101130208	TLE/PLE	–	–	–	0.087	0.050
6	4.05, 4.06	James R. Long	101130200	TLE	--	--	--	0.049	
8	4.05, 4.06	Wexford LTD	102126311, 102126312, 102126313, 102126314 & 102126315	TLE/PLE	–	–	–	0.122	0.017
11	4.06	David F. Chauvette and Dawn L. Chauvette	101130205	TLE	--	--	--	0.046	
12	4.06	Trustees of the Hannemann Revocable Trust	10130203	TLE	–	–	–	0.039	
13	4.06	L.S.C. and Bible Camp, Christian Liberty Academy, Mission of Jesus Christ, Almighty God AND Robert J. McGlone and Mary B. Glone	101126500	TLE	–	–	–	0.115	
14	4.06	Steven F. Mielke and Vicki A. Mielke	101130202	TLE	--	--	--	0.024	
16	4.06,4.07	Mark R. Ziemer and Mary Kay Ziemer	101130209	TLE	–	–	–	0.013	
17	4.06,4.07	Kurt Davidson	101126401	TLE	–	–	–	0.031	
18	4.07	Anne C. Ramsey, f/k/a Anne C. Geitner	101130500	TLE	–	–	–	0.044	
19	4.07	Patricia M. Wendt	101126400	TLE	--	--	--	0.005	
21	4.07	Matthew J. Hammen and Sara C. Hammen	101130400	TLE	–	–	–	0.027	
22	4.07, 4.08	Walter C. Campbell, Jr. and Rebecca A. Campbell	102094500	TLE	–	–	–	0.063	
23	4.07, 4.08	Christopher W. Kuehl and Laura E. Kuehl	101130300	TLE	–	–	–	0.027	
24	4.07	Chong Vang and Pa Houa V. Vang	101126402	TLE	--	--	--	0.055	
26	4.08	Matthew R. Emerich & Sharon Emerich	101129600	TLE	–	–	–	0.020	
27	4.08	Karleen D. Ward, Trustee of the Anton Family Irrevocable Trust dated May 8, 2017	102094300	TLE	–	–	–	0.045	
28	4.08	Judd W. Brickler a/k/a Judd Brickler and Teresa A. Brickler a/k/a Theresa A. Brickler	101129300	TLE/PLE	–	–	–	0.041	0.004
29	4.08	Carl W. Fischer and Joann C. Fischer	102094200	TLE	--	--	--	0.036	
31	4.08	Susan R. Steffen	101129400	TLE/PLE	–	–	–	0.038	0.006
32	4.08	Kevin M. Kraemer and Erica D. DeBoth	102094000	TLE	--	--	--	0.043	
34	4.08, 4.09	Craig W. Bethke	102093900	TLE	–	–	–	0.045	
36	4.08, 4.09	Holly M. Galassi	101129200	TLE	–	–	–	0.073	
37	4.09	Thomas R. Ise and Jesse A. Ise	102093700	TLE	–	–	–	0.067	
39	4.09	Thomas M. and Lynn K. Rehfeldt Living Trust	102093500	TLE/PLE	--	--	--	0.063	0.001
41	4.09	David J. Steffens	101129500	TLE	–	–	–	0.029	
42	4.09, 4.10	Elvin A. Johnson and Marjorie A. Johnson	102093400	TLE/PLE	–	–	–	0.078	0.001
44	4.09, 4.10	Eric J. Lindberg and Becky G. Lindberg	101129100	TLE	–	–	–	0.116	
46	4.10	Roxanne M. Reeves	101127201	TLE	--	--	--	0.103	
47	4.10, 4.11	Guy D. Bryner and Sarah L. Bryner	101127503	TLE	–	–	–	0.132	
48	4.11	Patti S. Stenson	101127504	TLE/PLE	–	–	–	0.072	0.003
49	4.11	Purple Lion Investments, LLC	101127506	TLE/PLE	–	–	–	0.027	0.003
51	4.10, 4.11, 4.12	Keith Hueffner	101128601	TLE	--	--	--	0.251	
52	4.11, 4.12	Alan M. Crawford & Patrice M. Kapretian	101127800	TLE/PLE	–	–	–	0.080	0.003
53	4.12	Martin James Much and Sarah Lyn Dorn	101127700	TLE	–	–	–	0.033	
54	4.12	AMS Commercial, LLC	101127502	TLE/PLE	--	--	--	0.042	0.005
56	4.12, 4.13	Jerry E. Schimmelpfenning and Barbara A. Schimmelpfenning	102316300	TLE	–	–	–	0.002	
57	4.12	Carl J. VanGrinsven and Wanda J. VanGrinsven	101127603	TLE/PLE	–	–	–	0.048	0.005
58	4.13	Lighthouse Senior Properties, LLC	101127604	TLE	–	–	–	0.044	
61	4.13	Kyle J. Hofacker and Allyson J. Hofacker	102313600	TLE	--	--	--	0.004	
63	4.13	Calnin & Goss, Inc	102098500, 102098600, 102098700	TLE	--	--	--	0.042	
69	4.13, 4.14	Michael R. Sauter and Kathryn A. Sauter	102098300, 102098400	TLE	–	–	–	0.045	
73	4.14	John L. Benotch and Jacquelyn R. Benotch	102245700	TLE/PLE	–	–	–	0.016	0.014
74	4.14	Town of Grand Chute Sanitary District #2	102098200	TLE	–	–	–	0.063	
76	4.14	Robert G. Ness and Kari E. Ness	102245600	PLE	–	–	–		0.020
77	4.14, 4.15	Ring Marital Trust (Dorothy M. Ring and David W. Ring, Trustees)	102097900, 102098000, 102098100	TLE/PLE	–	–	–	0.096	0.043
79	4.14, 4.15	James J. LaSalle, as to undivided 62% interest and Christine A. Koenaman, as undivided 38% inhterest	102243700	PLE	–	–	–		0.112
82	4.15	Richard Longworth	102097800	TLE/PLE	–	–	–	0.033	0.013
83	4.15	Karen A. Werner	102097700	TLE/PLE	–	–	–	0.033	0.010
84	4.15	Jane M. Vander Loop	102243600	PLE	--	--	--		0.030
86	4.15	Accurate Building Rentals, LLC	102097600	TLE/PLE	–	–	–	0.055	0.022
87	4.15	Nanette P. Wycoco	102243200	PLE	–	–	–		0.019

OWNER'S NAME ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE TOWN.

4

4

REVISION DATE

DATE 05/02/18

GRID FACTOR N/A

SCALE, FEET

HWY: SPENCER STREET

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4657-25-01

CONSTRUCTION PROJECT NUMBER 4657-25-01

PLAT SHEET 4.02

PS&E SHEET 87

E

TOWN OF

GRAND CHUTE

MAYFLOWER DRIVE

LONG COURT

LONG COURT

W SPENCER STREET

$SW\frac{1}{4}SW\frac{1}{4}$ SEC. 30-21-17

$SE\frac{1}{4}SW\frac{1}{4}$ SEC. 30-21-17

$NW\frac{1}{4}NW\frac{1}{4}$ SEC. 31-21-17

$NE\frac{1}{4}NW\frac{1}{4}$ SEC. 31-21-17

N

4

4

REVISION DATE	DATE 05/02/18	SCALE, FEET 0 100 200	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.03
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 88 E

FILE NAME : SPENCER ST-RW PLAT LAYOUT SHEETS.DWG
LAYOUT NAME - 03 Spencer ST-03RW

PLOT DATE : 12/19/2018 2:50 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

TOWN OF

GRAND CHUTE

N

4

4

SW¼ SE¼ SEC. 30-21-17

SE¼ SE¼ SEC. 30-21-17

NW¼ NE¼ SEC. 31-21-17

NE¼ NE¼ SEC. 31-21-17

LONG COURT

S MAPLE HILL DRIVE

S MISTY LANE

S CASALOMA DRIVE

S WILD ROSE LANE

S GOLDENROD DRIVE

W WILDFLOWER LANE

BUTTERCUP COURT

42 46 47 48 49 52 53 54 57 58 63 63 63 69 69 74 77 77 77 82 83 86

44 51 56 61 73 76 79 84 87

P/L

11+00 12+00 13+00 14+00

7+00 8+00 9+00 10+00

135+00 136+00 137+00 138+00 139+00 140+00 141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00 159+00 160+00 161+00 162+00 163+00 164+00 165+00

REVISION DATE	DATE 05/02/18	SCALE, FEET 0 100 200	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.04
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 89 E

FILE NAME : SPENCER ST-RW PLAT LAYOUT SHEETS.DWG
LAYOUT NAME - 04 Spencer ST-04RW

PLOT DATE : 12/19/2018 2:50 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

4

N

LOT 18
DONEGAL

PK NAIL FOUND
Y=561049.990
X=803886.680
STA 109+99.95
5.00' LT

T21N R16E | T21N R17E
25 | 30
36 | 31
T21N R16E | T21N R17E

1-1/4"REBAR

66'

R/L=SEC LINE-R/W-N00°17'02"E
WEST LINE SW¼ SW¼ SEC. 30-21-17

MAYFLOWER DRIVE

11+00

LOT 1
CERTIFIED SURVEY MAP 1054
VOLUME 6 PAGE 1054
DOC NO. 1014968

TOWN

③
TAX KEY # 101126301
OWNER: PATRICK J. &
LORI L. JACOBS

0.004 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.015 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

10+68.87
33.00' TLE
10+68.82
46.00' TLE
110+32.81
51.00 PLE
10+50.82
46.00' TLE

0.063 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

110+79.81
51.00 PLE
110+79.87
37.20 PLE

CONC

SI

5' DISTRIBUTION
EASEMENT OVERHEAD

15' WATERMAN EASEMENT
AS PER J.18198 I.22 AS
DOC. #1158637

P/L

3/4"REBAR

LOT 1 MEADOWS OF
MARY ELLEN AND WALTER

SW-SW

⑧
TAX KEY # 102126311
OWNER: WEXFORD LTD

0.017 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

111+99.34
51.00 PLE
111+99.51
37.00 PLE

112+64.32
51.00 PLE
112+64.35
47.00' TLE
112+64.49
37.00 PLE

LOT 2 MEADOWS OF
MARY ELLEN AND WALTER

OF

⑧
TAX KEY # 102126312
OWNER: WEXFORD LTD

0.059 AC TLE
FOR SLOPING AND GRADING

12' UTILITY EASEMENT

RAILROAD SPIKE
FOUND
Y=560996.950
X=806699.190

T21N R16E | T21N R17E
21 | 30
31 | 17
R16E | R17E

109+00

R/L SPENCER ST 10+00
R/L MAYFLOWER DRIVE 10+00
Y=561044.988
X=803886.645

ASPH

REF. LINE
11+00.00 P.I.
Y=561044.104
X=803986.641

175.05'

111+00

SEC LINE-R/W-S88°55'11"E, 2813.01'
NORTH LINE NW/4 SEC 31-21-17

W SPENCER STREET

33'

112+00

S1° 04' 49"W
4.00'

113+00

2637.96'

114+00

R/L-S89°29'36"E 100.00'

R/L-S88°55'11"E 2713.01'

1-1/4"REBAR

LOT 28 BLOCK 1
MAYFLOWER MANOR

1-1/4"REBAR

BEGIN RELOCATION ORDER
110+15.17
Y-561044.854
X-803901.815

110+64.05
28.64 PLE
ASPH
110+98.06
28.98 PLE
111+96.35
29.00 PLE
ASPH

CONC
CONC
ASPH
ASPH

110+33.10
52.00 PLE
110+64.09
49.00' TLE
110+64.10
52.00 PLE
110+98.08
43.50 PLE
110+99.75
49.00' TLE
111+21.59
49.00' TLE
111+40.00
49.00' TLE
111+39.93
43.50' TLE
111+96.52
43.50 PLE
111+96.48
40.00' TLE
112+60.75
40.00' TLE
112+60.80
44.00' TLE
113+07.80
44.00' TLE
113+07.72
37.00' TLE
114+26.73
37.00' TLE
114+26.85
45.00' TLE

0.017 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.087 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

0.033 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.047 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

⑥
TAX KEY # 101130200
OWNER: JAMES R. LONG

④
TAX KEY # 101130208
OWNER: DONALD K. &
BYRDENE M. YOUNG

PARCEL 4 CERTIFIED SURVEY MAP
117 VOLUME 1 PAGE 117
DOC NO. 716093

NW-NW

PARCEL 3 CERTIFIED SURVEY
MAP VOLUME 1 PAGE 120
DOC NO. 717680

PARCEL 2 CERTIFIED SURVEY
MAP VOLUME 1 PAGE 120
DOC NO. 717680

GRAND CHUTE

9+00

R/L=SEC LINE-R/W-S00°23'53"W
WEST LINE NW¼ NW¼ SEC. 31-21-17

66'

MATCH LINE 114+50
SEE SHEET 4.06

MATCH LINE

REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.05	
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 90	E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 05 Spencer St-05RW

PLOT DATE : 12/19/2018 2:50 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

4

N

LOT 3 MEADOWS OF MARY ELLEN AND WALTER

(8) TAX KEY # 102126313
OWNER: WEXFORD LTD

LOT 4 MEADOWS OF MARY ELLEN AND WALTER

(8) TAX KEY # 102126314
OWNER: WEXFORD LTD

LOT 5 MEADOWS OF MARY ELLEN AND WALTER

(8) TAX KEY # 102126315
OWNER: WEXFORD LTD

TOWN OF SW-SW

(17) TAX KEY # 101126401
OWNER: KURT DAVIDSON

UNPLATTED LANDS

(13) TAX KEY # 101126500
OWNER: L.S.C. AND BIBLE CAMP, CHRISTIAN LIBERTY ACADEMY, MISSION OF JESUS CHRIST, ALMIGHTY GOD AND ROBERT J. MCGLONE AND MARY B. GLONE

20' DRAINAGE & ACCESS EASEMENT

0.012 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

118+78.69
76.00' TLE

119+29.70
76.00' TLE

119+29.77
71.00' TLE

P/L

0.063 AC TLE
FOR SLOPING AND GRADING

117+21.27
47.00' TLE

117+21.14
56.00' TLE

SI

0.115 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

118+78.97
56.00' TLE

5' DISTRIBUTION EASEMENT OVERHEAD

12' UTILITY EASEMENT

F.E.

GARDEN/FLOWERS

GRAV

PK NAIL FOUND
Y=561049.990
X=803886.680

T21N R16E
25 | 30
36 | 31
T21N R17E

SEC LINE-R/W-S88°55'11"E, 2813.01'
NORTH LINE NW/4 SEC 31-21-17

33'

S1° 04' 49"W
4.00'

650.05'

2162.96'

115+00 116+00 117+00 118+00 119+00

R/L-S88°55'11"E 2713.01'

W SPENCER STREET

RAILROAD SPIKE FOUND
Y=560996.950
X=806699.190

T 21 N
30 | 31
R 17 E

SEE SHEET 4.05
MATCH LINE 114+50

MATCH LINE 119+50
SEE SHEET 4.07

ASPH

114+57.21
37.00' TLE

114+57.29
45.00' TLE

115+10.22
37.00' TLE

115+10.40
52.00' TLE

115+39.22
37.00' TLE

115+39.40
52.00' TLE

SI

116+53.71
37.00' TLE

116+53.87
50.00' TLE

117+13.69
35.00' TLE

117+13.87
50.00' TLE

117+84.56
35.00' TLE

117+84.59
37.50' TLE

118+64.60
37.50' TLE

118+64.64
41.00' TLE

118+84.55
33.50' TLE

118+84.64
41.00' TLE

0.002 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

PARCEL 2 CERTIFIED SURVEY
MAP VOLUME 1 PAGE 120
DOC NO. 717680

(6) TAX KEY # 101130200
OWNER: JAMES R. LONG

(11) TAX KEY # 101130205
OWNER: DAVID F. & DAWN L. CHAUVETTE

PARCEL 1 CERTIFIED SURVEY
MAP VOLUME 1 PAGE 120
DOC NO. 717680

0.046 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

(12) TAX KEY # 101130203
OWNER: TRUSTEES OF THE HANNEMANN REVOCABLE TRUST

UNPLATTED LANDS

GRAND CHUTE

0.039 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

NW-NW

(14) TAX KEY # 101130202
OWNER: STEVEN F. & VICKI A. MIELKE

UNPLATTED LANDS

0.024 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

0.004 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

(16) TAX KEY # 101130209
OWNER: MARK & MARY KAY ZIEMER

REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.06	
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 91	E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 06 Spencer St-06RW

PLOT DATE : 12/19/2018 2:50 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

4

4

N

(19)
TAX KEY # 101126400
OWNER: PATRICIA M. WENDT

LOT 1
CERTIFIED SURVEY MAP 1054
VOLUME 6 PAGE 1054
DOC NO. 1014968

11+91.64
32.24' TLE

ASPH

11+91.73
37.24' TLE

0.005 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

P/L

LOT 2
CERTIFIED SURVEY MAP 6002
VOLUME 35 PAGE 6002
DOC NO. 1842526

11+51.73
37.45' TLE

12+41.20
31.02' TLE

12+00

R/L-N00°01'20"W

ASPH

SW-SW

33'

30'

63'

11+00

SW-SW

SE-SW

LOT 12
BLOCK 1
LONG ACRES PLAT

LOT 11
BLOCK 1
LONG ACRES PLAT

EAST LINE SW¼ SEC. 30-21-17

(17)
TAX KEY # 101126401
OWNER: KURT DAVIDSON

LOT 3
CERTIFIED SURVEY MAP 1054
VOLUME 6 PAGE 1054
DOC NO. 1014968

0.019 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

119+52.77
71.00' TLE

119+52.99
55.00' TLE

120+19.99
55.00' TLE

P/L

120+19.85
65.00' TLE

120+49.85
65.00' TLE

120+50.06
50.00' TLE

REF LINE
10+49.57 PI
Y-561071.509
X-805162.436

TOWN

OF

(24)
TAX KEY # 101126402
OWNER: CHONG VANG &
PA HOUA V. VANG

0.065 AC TLE
FOR SLOPING AND GRADING

122+26.06
50.00' TLE

ASPH

R/L-N00°17'02"E

LONG COURT

(22)
TAX KEY # 102094500
OWNER: WALTER C. &
REBECCA A. CAMPBELL

0.061 AC TLE
FOR SLOPING AND GRADING

123+20.60
45.00' TLE

SI

STUMP

5' DISTRIBUTION
EASEMENT OVERHEAD

2"PIPE

F.E.

2"PIPE

5' DISTRIBUTION
EASEMENT OVERHEAD

PK NAIL FOUND
Y-561049.990
X-803886.680

T21N R16E | T21N R17E
25 | 30
36 | 31
T21N R16E | T21N R17E

R/L SPENCER ST 122+75.76
R/L LONG COURT 10+00
Y-561021.935
X-805162.190

SEC LINE-R/W-S88°55'11"E, 2813.01'
NORTH LINE NW/4 SEC 31-21-17

RAILROAD SPIKE
FOUND
Y-560996.950
X-806699.190

T 21 N
R 17 E
21 | 30 | 31 | 17

40'

33'

1125.05'

120+00

121+00

S1°04'49"W
4.00'

122+00

123+00

1687.96'

124+00

W SPENCER STREET

R/L-S88°55'11"E 2713.01'

SAN W SAN W SAN W SAN W SAN W SAN W SAN W SAN W SAN W SAN W SAN W SAN W SAN W

3/4"REBAR

ASPH
F.E.

ASPH

3/4"REBAR

3/4"REBAR

ASPH

CEDARS

SEE SHEET 4.06
MATCH LINE 119+50

MATCH LINE 124+50
SEE SHEET 4.08

MATCH LINE

MATCH LINE

120+39.99
33.50' TLE

120+39.99
38.00' TLE

0.009 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

P/L

(16)
TAX KEY # 101130209
OWNER: MARK & MARY
KAY ZIEMER

UNPLATTED
LANDS

0.044 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

121+49.99
38.00' TLE

121+50.00
50.00' TLE

SI

121+85.00
50.00' TLE

121+84.99
36.00' TLE

122+14.91
36.00' TLE

P/L

122+14.92
41.00' TLE

(18)
TAX KEY # 101130500
OWNER: ANNE C.
RAMSEY

UNPLATTED
LANDS

122+51.92
37.00' TLE

122+51.92
41.00' TLE

0.027 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

UNPLATTED
LANDS

GRAND CHUTE

(21)
TAX KEY # 101130400
OWNER: MATTHEW J. &
SARA C. HAMMEN

NW-NW

123+46.01
37.00' TLE

123+46.03
49.00' TLE

P/L

123+78.03
49.00' TLE

123+78.01
36.00' TLE

124+06.74
34.00' TLE

124+06.75
36.00' TLE

(23)
TAX KEY # 101130300
OWNER: CHRISTOPHER
W. & LAURA E. KUEHL

UNPLATTED
LANDS

0.024 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

EAST LINE NW¼ NW¼
SEC. 31-21-17

NE-NW

REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.07	
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET — 92	E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 07 Spencer St-07RW

PLOT DATE : 12/19/2018 2:50 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

4

N

PK NAIL FOUND
Y=561049.990
X=803886.680

RAILROAD SPIKE FOUND
Y=560996.950
X=806699.190

T21N R16E | T21N R17E
25 | 30
36 | 31
T21N R16E | T21N R17E

T 21 N
30
31
R 17 E

(22) TAX KEY # 102094500
OWNER: WALTER C. & REBECCA A. CAMPBELL

LOT 11 BLOCK 1 LONG ACRES PLAT

LOT 10 BLOCK 1 LONG ACRES PLAT

TOWN OF SE-SW

LOT 9 BLOCK 1 LONG ACRES PLAT

(29) TAX KEY # 102094200
OWNER: CARL W. & JOANN C. FISCHER, TRUSTEE OR THEIR SUCCESSORS IN TRUST UNDER THE CARL W. & JOANN C. FISCHER LIVING TRUST

LOT 8 BLOCK 1 LONG ACRES PLAT

LOT 7 BLOCK 1 LONG ACRES PLAT

(34) TAX KEY # 102093900
OWNER: CRAIG W. BETHKE

(32) TAX KEY # 102094000
OWNER: KEVIN M. KRAEMER & ERICA D. DE BOTH

(27) TAX KEY # 102094300
OWNER: KARLEEN D. WARD, TRUSTEE OF THE ANTON FAMILY IRREVOCABLE TRUST DATED MAY 8, 2017

P/L

0.002 AC TLE
FOR SLOPING AND GRADING

0.045 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

0.036 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

0.043 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

0.005 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

124+79.13 65.00' TLE
124+79.40 45.00' TLE
125+15.13 65.00' TLE
125+15.41 45.00' TLE
126+46.79 54.00' TLE
126+46.90 45.00' TLE
126+81.80 54.00' TLE
126+81.91 45.00' TLE
127+68.35 49.00' TLE
127+68.40 45.00' TLE
129+22.85 49.00' TLE
129+23.01 45.00' TLE

ASPH

2"PIPE

5' DISTRIBUTION EASEMENT OVERHEAD

SI

33'

S1° 04' 49"W 4.00'

1675.05'

1137.96'

SEC LINE-R/W-S88°55'11"E, 2813.01'
NORTH LINE NW/4 SEC 31-21-17

R/L-S88°55'11"E 2713.01'

125+00 126+00 127+00 128+00 129+00

W SPENCER STREET

SEE SHEET 4.07
MATCH LINE 124+50

MATCH LINE 129+50
SEE SHEET 4.09

ASPH
GRAV
GRAV. CONC
ASPH. CONC
CEDARS

3/4"REBAR

0.004 AC PLE
FOR STORM SEWER/DITCH MAINTENANCE

0.006 AC PLE
FOR STORM SEWER/DITCH MAINTENANCE

124+77.01 34.00' TLE
124+77.01 34.50' TLE
125+30.01 34.50' TLE
125+30.02 40.50' TLE
125+56.01 34.50' TLE
125+56.02 40.50' TLE
126+08.01 34.50' TLE
126+08.01 35.00' TLE
126+49.01 35.00' TLE
126+49.03 51.00' TLE
126+74.03 51.00' TLE
126+74.02 44.50' TLE
127+26.00 29.00 PLE
127+26.02 42.00 PLE
127+39.02 44.50' TLE
127+39.04 50.00' TLE
127+59.00 42.00 PLE
127+59.02 29.00 PLE
127+74.01 35.00' TLE
127+74.03 50.00' TLE
128+27.01 35.00' TLE
128+27.03 50.00' TLE
128+51.03 50.00' TLE
128+51.01 35.00' TLE
128+70.01 35.00' TLE
128+70.01 35.50' TLE

0.003 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

(23) TAX KEY # 101130300
OWNER: CHRISTOPHER W. & LAURA E. KUEHL

0.020 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

(26) TAX KEY # 101129600
OWNER: MATTHEW R. & SHARON EMERICH
UNPLATTED LANDS

(28) TAX KEY # 101129300
OWNER: JUDD W. & TERESA A. BRICKLER
UNPLATTED LANDS

0.041 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

GRAND CHUTE

NE-NW

0.038 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

(31) TAX KEY # 101129400
OWNER: SUSAN R. STEFFEN
UNPLATTED LANDS

0.012 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

(36) TAX KEY # 101129200
OWNER: HOLLY M. GALASSI

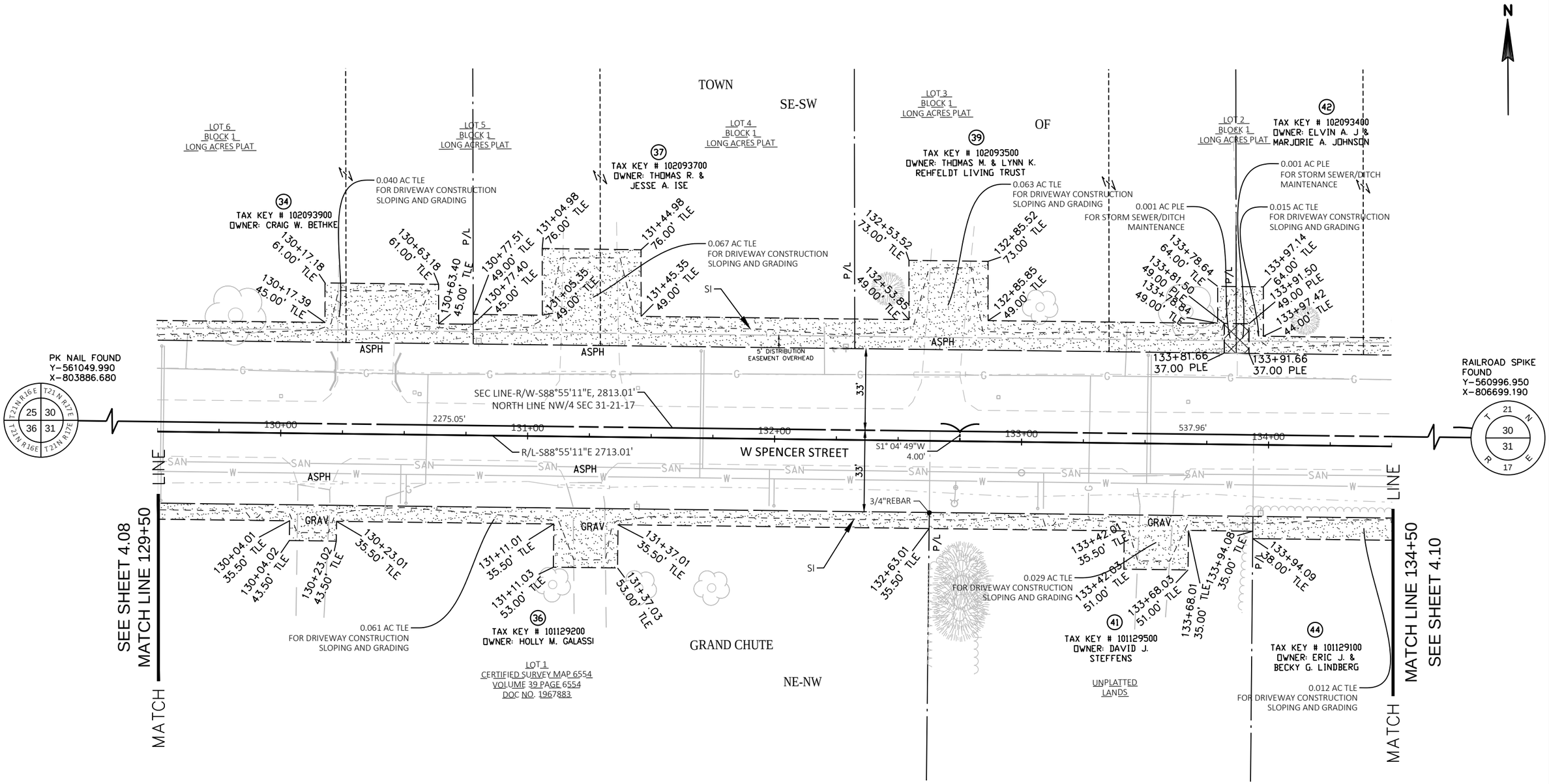
REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET
	GRID FACTOR N/A		COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.08	
CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 93	E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 08 Spencer St-08RW

PLOT DATE : 12/19/2018 2:50 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75



REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.09
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 94 E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 09 Spencer St-09RW

PLOT DATE : 12/19/2018 2:50 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

4

N

11+92.79
32.26' TLE

ASPH

12+00

R/L-N02°04'54"W

11+84.35
27.69' TLE

TOWN

REF LINE
11+35.63 PI
Y-561132.852
X-806469.756

OF

SE-SW

SW-SE

EAST LINE SE¼ SW¼ SEC. 30-21-17

LOT 1
BLOCK 1
LONG ACRES PLAT

60

11+11.18
38.99' TLE

REF LINE
10+51.09 PI
Y-561048.312
X-806469.754

LOT 2
CERTIFIED SURVEY MAP 2087
VOLUME 11 PAGE 2087
DOC NO. 1142215

LOT 1
CERTIFIED SURVEY MAP 1347
VOLUME 7 PAGE 1347
DOC NO. 1046089

(42)
TAX KEY # 102093400
OWNER: ELVIN A. J &
MARJORIE A. JOHNSON

11+00.53
49.99' TLE

R/L-N00°00'05"E

11+00

LONG COURT

(46)
TAX KEY # 101127201
OWNER: ROXANNE M. REEVES

RAILROAD SPIKE
FOUND
Y-560996.950
X-806699.190

(47)
TAX KEY # 101127503
OWNER: GUY D. &
SARAH L BRYNER

0.063 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

R/L SPENCER ST 135+85.12
R/L LONG COURT 10+00
Y-560997.247
X-806471.316

136+26.35
54.00' TLE

SI

0.103 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

21
T 30 N
31
R 17 E

P/L

138+10.25
57.50' TLE

138+13.83
57.50' TLE

138+10.43
54.00' TLE

0.065 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

135+29.49
44.00' TLE

ASPH

R/L-N01°45'11"W

5' DISTRIBUTION
EASEMENT OVERHEAD

5' DISTRIBUTION
EASEMENT OVERHEAD

33'

33'

PK NAIL FOUND
Y-561049.990
X-803886.680

T21N R16E | T21N R17E
25 | 30
36 | 31
T21N R16E | T21N R17E

SEC LINE-R/W-S88°55'11"E, 2813.01'
NORTH LINE NW/4 SEC 31-21-17

C/L P.I. 4.00' LT.
138+13.07
Y-560996.950
X-806699.190

REF. LINE
138+13.01 P.I.
Y-560992.950
X-806699.172

SEC LINE-R/W-N89°26'46"E, 2631.95'
NORTH LINE NE¼ SEC 30-21-14

MAG NAIL WITH
WASHER FOUND
Y-561022.388
X-809331.020

21
T 30 29 N
31 32
R 17 E

2650.05'

135+00

136+00

S1°04'49"W
4.00'

137+00

162.96'

138+00

139+00

R/L-S88°55'11"E 2713.01'

W SPENCER STREET

R/L-N89°26'46"E, 2611.99'

SEE SHEET 4.09
MATCH LINE 134+50

MATCH LINE 139+50
SEE SHEET 4.11

ASPH

134+73.09
38.00' TLE

135+06.09
39.00' TLE

0.104 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

135+06.18
68.00' TLE

134+73.18
68.00' TLE

3/4"REBAR

1 1/4"REBAR

SI

1+38+13.09
39.00' TLE

P/L

ASPH TRAIL

138+77.91
42.50' TLE

0.022 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

ARROWHEAD PARK TRAIL

(44)
TAX KEY # 101129100
OWNER: ERIC J. &
BECKY G. LINDBERG

UNPLATTED
LANDS

NE-NW

GRAND CHUTE

EAST LINE NE¼ NW¼ SEC. 31-21-17

OUTLOT 2 FOREST PARK ESTATES
(DEDICATED TO THE PUBLIC FOR
PARK AND TRAIL PURPOSES)

(51)
TAX KEY # 101128601
OWNER: KEITH HUEFFNER

NW-NE

MATCH LINE

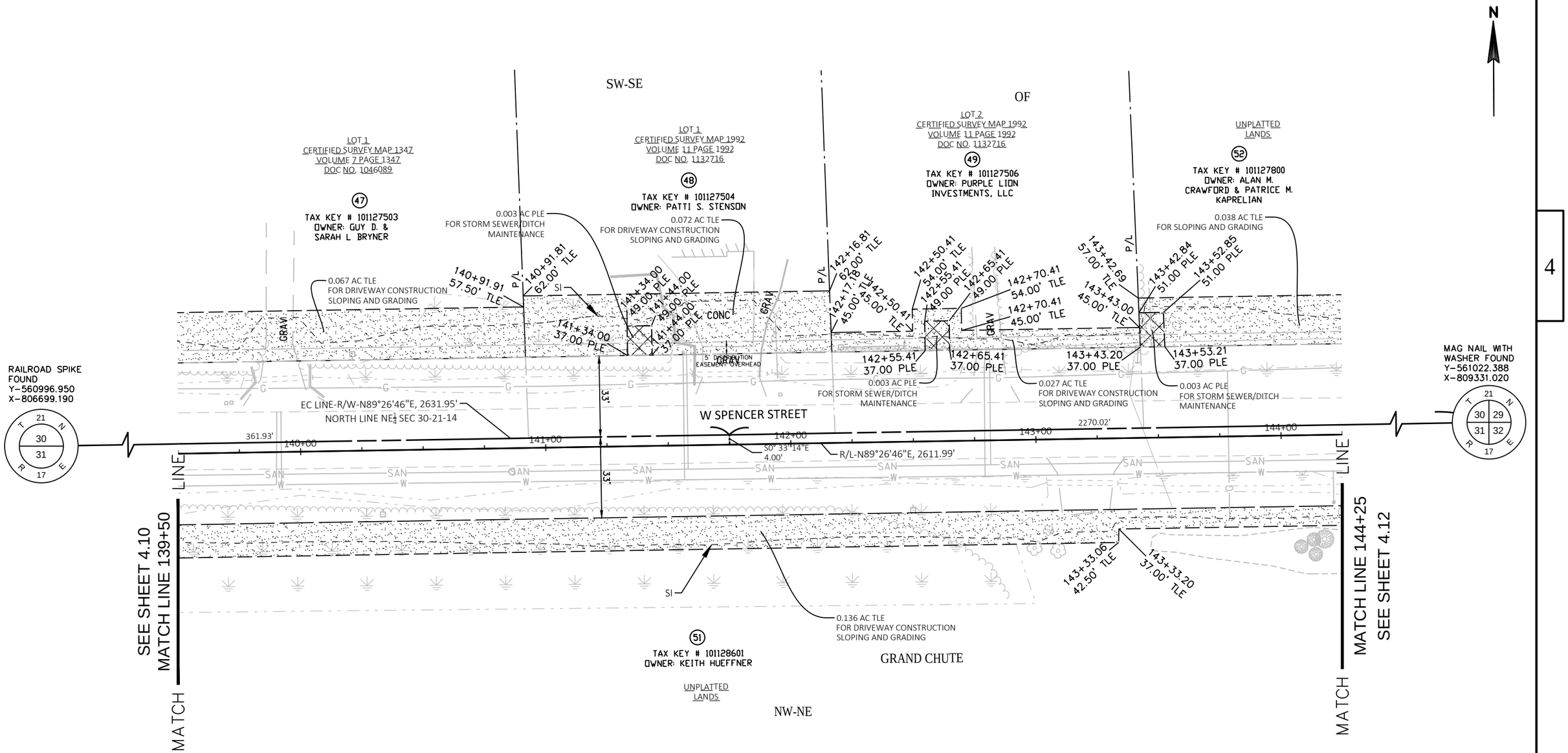
MATCH LINE

REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET
	GRID FACTOR N/A		COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.10	
CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET — 95	E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 10 Spencer St-10RW

PLOT DATE : 12/19/2018 2:50 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT



4

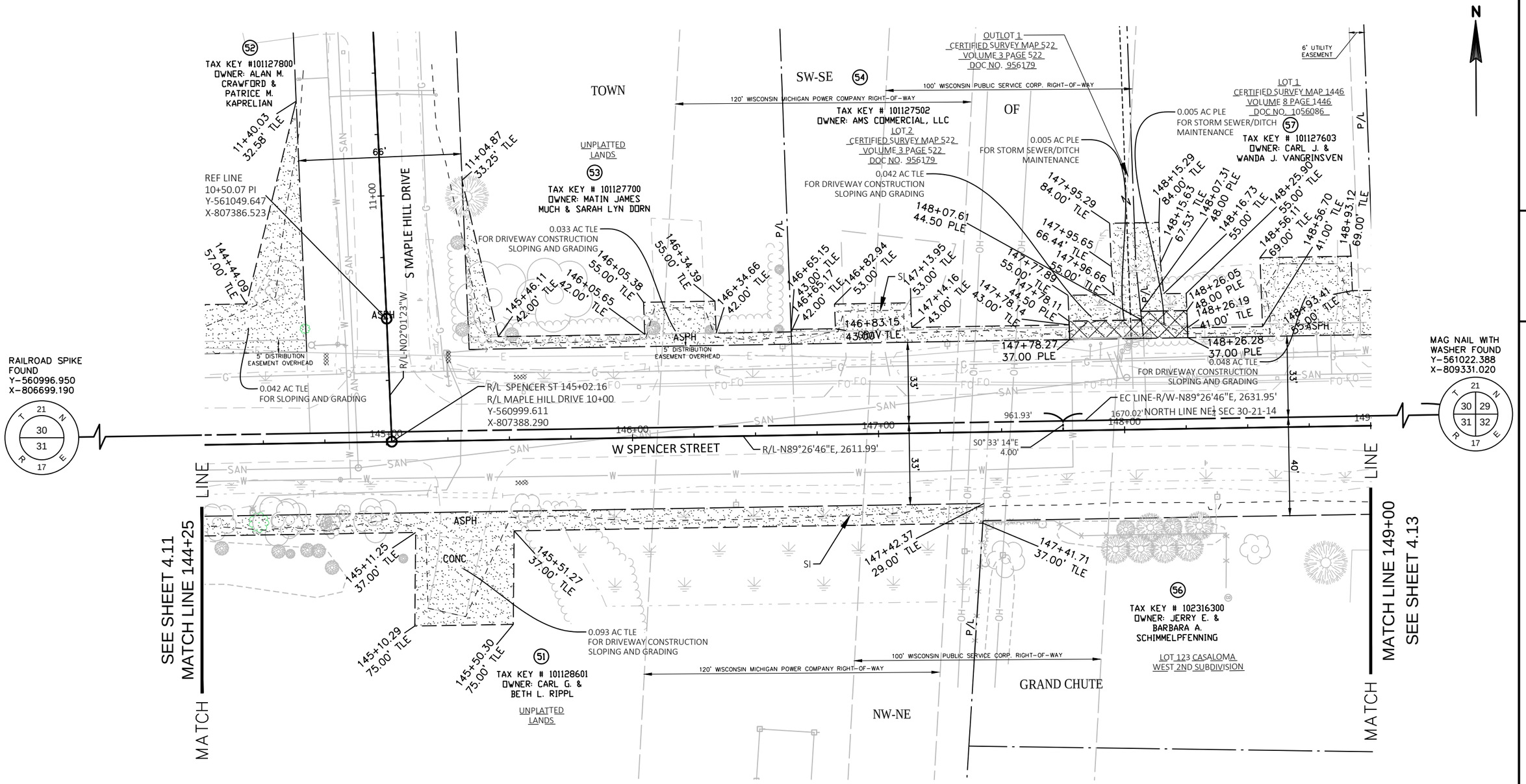
4

REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.11
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 96 E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 11 Spencer St-11RW

PLOT DATE : 12/19/2018 2:51 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

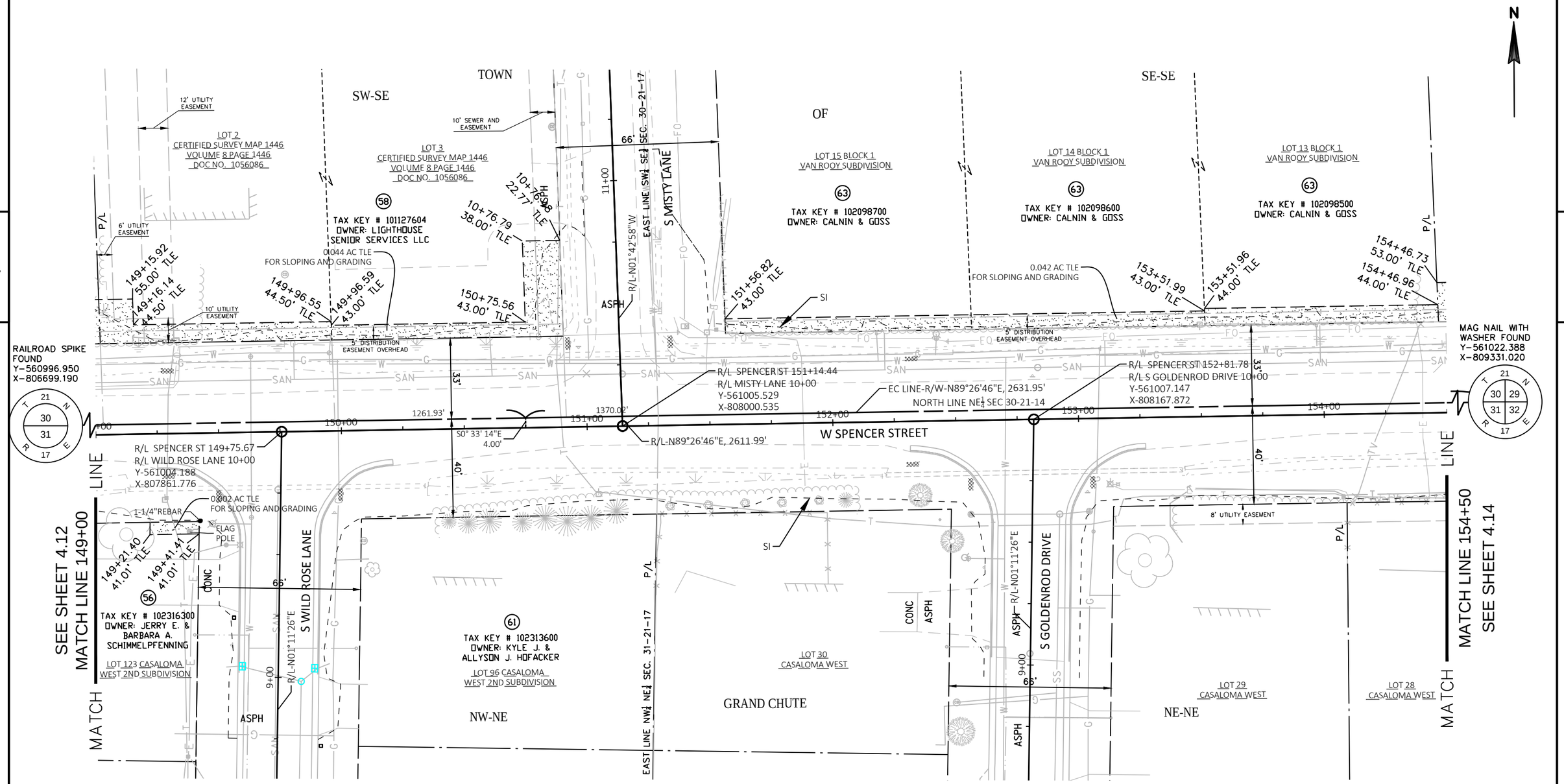


REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.12
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 97 E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 12 Spencer St-12RW

PLOT DATE : 12/19/2018 2:51 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75



REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.13
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 98 E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 13 Spencer St-13RW

PLOT DATE : 12/19/2018 2:51 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 75

4

N

LOT 12 BLOCK 1
VAN ROOY SUBDIVISION

(69)

TAX KEY # 102098400
OWNER: MICHAEL R. &
KATHRYN A. SAUTER

LOT 11 BLOCK 1
VAN ROOY SUBDIVISION

(69)

TAX KEY # 102098300
OWNER: MICHAEL R. &
KATHRYN A. SAUTER

TOWN OF SE-SE

LOT 10 BLOCK 1
VAN ROOY SUBDIVISION

(74)

TAX KEY # 102098200
OWNER: TOWN OF GRAND
CHUTE SANITARY
DISTRICT #2

LOT 9 BLOCK 1
VAN ROOY SUBDIVISION

(77)

TAX KEY # 102098100
OWNER: RING MARITAL
TRUST

LOT 8 BLOCK 1
VAN ROOY SUBDIVISION

(77)

TAX KEY # 102098000
OWNER: RING MARITAL
TRUST

0.045 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

0.063 AC TLE
FOR SLOPING AND GRADING

0.018 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.096 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

0.008 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

154+75.74
53.00' TLE

154+75.97
44.00' TLE

156+16.99
44.00' TLE

156+16.81
51.00' TLE

156+51.49
62.00' TLE

156+51.81
51.00' TLE

157+61.31
69.00' TLE

157+61.49
62.00' TLE

157+61.62
57.00 PLE

157+62.15
37.00 PLE

158+01.64
57.00 PLE

158+11.33
69.00' TLE

158+11.64
57.00' TLE

158+02.16
37.00 PLE

158+71.62
57.00' TLE

158+71.78
51.00' TLE

159+70.78
51.00' TLE

159+70.83
49.00 PLE

159+71.15
37.00 PLE

ASPH

5' DISTRIBUTION
EASEMENT OVERHEAD

RAILROAD SPIKE
FOUND
Y=560996.950
X=806699.190

MAG NAIL WITH
WASHER FOUND
Y=561022.388
X=809331.020

T 21 N
R 30 31 E
17

EC LINE-R/W-N89°26'46"E, 2631.95'

NORTH LINE NE¼ SEC 30-21-14

R/L-N89°26'46"E, 2611.99'

1936.93'

695.02'

33'

40'

S0° 33' 14"E
4.00'

155+00 156+00 157+00 158+00 159+00 160

W SPENCER STREET

SEE SHEET 4.13
MATCH LINE 154+50

MATCH LINE 160+00
SEE SHEET 4.15

F.E.

SI

8' UTILITY EASEMENT

157+58.00
36.00' TLE

157+58.00
41.00' TLE

157+79.69
41.00' TLE

157+79.69
36.00 PLE

157+79.69
72.00 PLE

158+55.00
54.00 PLE

158+55.00
72.00 PLE

0.016 AC TLE
FOR SLOPING AND GRADING

0.014 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.089 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.020 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

(73)

TAX KEY # 102245700
OWNER: JOHN L. &
JACQUELYN R. BENDTCH

LOT 26
CASALOMA WEST

(76)

TAX KEY # 102245600
OWNER: ROBERT G. &
KARI E. NESS

LOT 25
CASALOMA WEST

(79)

TAX KEY # 102243700
OWNER: JAMES J. LASALLE, AS
TO UNDIVIDED 62% INTEREST
AND CHRISTINE A. KOENAMAN,
AS UNDIVIDED 38% INHTERES

LOT 6
CASALOMA WEST

LOT 28
CASALOMA WEST

LOT 27
CASALOMA WEST

NE-NE

GRAND CHUTE

12' UTILITY EASEMENT

50'

50'

100' DRAINAGE EASEMENT

P/L

REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET
	GRID FACTOR N/A		COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.14	
CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET	99 E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 14 Spencer St-14RW

PLOT DATE : 12/19/2018 2:51 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

4

N

RAILROAD SPIKE FOUND
Y=560996.950
X=806699.190

T 21 N
R 30 31 E
17

82
TAX KEY # 102097800
OWNER: RICHARD LONGWORTH
LOT 6 BLOCK 1
VAN ROOY SUBDIVISION

TOWN OF SE-SE

83
TAX KEY # 102097700
OWNER: KAREN A. WERNER
LOT 5 BLOCK 1
VAN ROOY SUBDIVISION

LOT 7 BLOCK 1
VAN ROOY SUBDIVISION

77
TAX KEY # 102097900
OWNER: RING MARITAL TRUST

LOT 4 BLOCK 1
VAN ROOY SUBDIVISION

86
TAX KEY # 102097600
OWNER: ACCURATE BUILDING RENTALS LLC

MAG NAIL WITH WASHER FOUND
Y=561022.388
X=809331.020

T 21 N
R 30 29 31 32 E
17

EAST LINE SE¼ SEC. 30-21-17
11+00

S CASALOMA DRIVE
80'
ASPH

LOT 1
CERTIFIED SURVEY MAP 2340
VOLUME 12 PAGE 2340
DOC NO. 1167182

160+60.73
53.00' TLE

160+60.83
49.00 PLE
160+61.15
37.00 PLE

161+15.75
53.00 PLE
161+16.17
37.00 PLE

0.033 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

161+50.73
53.00 PLE
161+50.86
48.00 PLE
161+51.15
37.00 PLE

0.033 AC TLE
FOR DRIVEWAY CONSTRUCTION
SLOPING AND GRADING

161+91.87
48.00 PLE
161+92.16
37.00 PLE

162+40.73
53.00' TLE

162+40.78
51.00' TLE
162+40.86
48.00 PLE
162+41.15
37.00 PLE

0.022 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.055 AC TLE
FOR SLOPING AND GRADING

163+26.89
48.00 PLE
163+27.18
37.00 PLE

164+10.78
51.00' TLE

5' DISTRIBUTION EASEMENT OVERHEAD

0.013 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.010 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.017 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

CONC
ASPH
SI

EC LINE-R/W-N89°26'46"E, 2631.95'
NORTH LINE NE¼ SEC 30-21-14

R/L SPENCER ST 164+44.88
R/L CASALOMA DRIVE 10+02.47
Y-561018.389
X-809330.919

2336.93'
295.02'
33'
40'
S0° 33' 14"E
4.00'

+00 161+00 162+00 163+00 164+00 165+00

W SPENCER STREET

R/L-N89°26'46"E, 2611.99'

10'X16.5 AT&T
ABOVE-GROUND
EQUIPMENT EASEMENT

1 1/4"REBAR
LOT 1
CERTIFIED SURVEY MAP 6463
VOLUME 38 PAGE 6463
DOC NO. 1950913

SEE SHEET 4.14
MATCH LINE 160+00

160+87.53
36.01 PLE
161+53.57
36.01 PLE
161+53.16
47.50 PLE
162+17.55
40.50 PLE
162+17.30
47.50 PLE
162+31.56
40.50 PLE
162+31.38
45.50 PLE
162+83.23
45.50 PLE

160+42.51
54.00 PLE

R=60.00'
DELTA=043°44'19"
LCH=44.70'
LCB=S65°41'58"W
L=45.80'

0.023 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

0.030 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

12' UTILITY EASEMENT

162+83.32
43.00 PLE

0.019 AC PLE
FOR STORM SEWER/DITCH
MAINTENANCE

164+03.32
43.00 PLE

ASPH

79
TAX KEY # 102243700
OWNER: JAMES J. LASALLE, AS TO UNDIVIDED 62% INTEREST AND CHRISTINE A. KOENAMAN, AS UNDIVIDED 38% INHTEREST

R60'

BUTTERCUP COURT

84
TAX KEY # 102243600
OWNER: JANE M. VANDER LOOP
LOT 5
CASALOMA WEST

87
TAX KEY # 102243200
OWNER: NANETTE P. WYCOCO
LOT 1
CASALOMA WEST

GRAND CHUTE

NE-NE

EAST LINE NE¼ NE¼ SEC. 31-21-17
9+00

73'

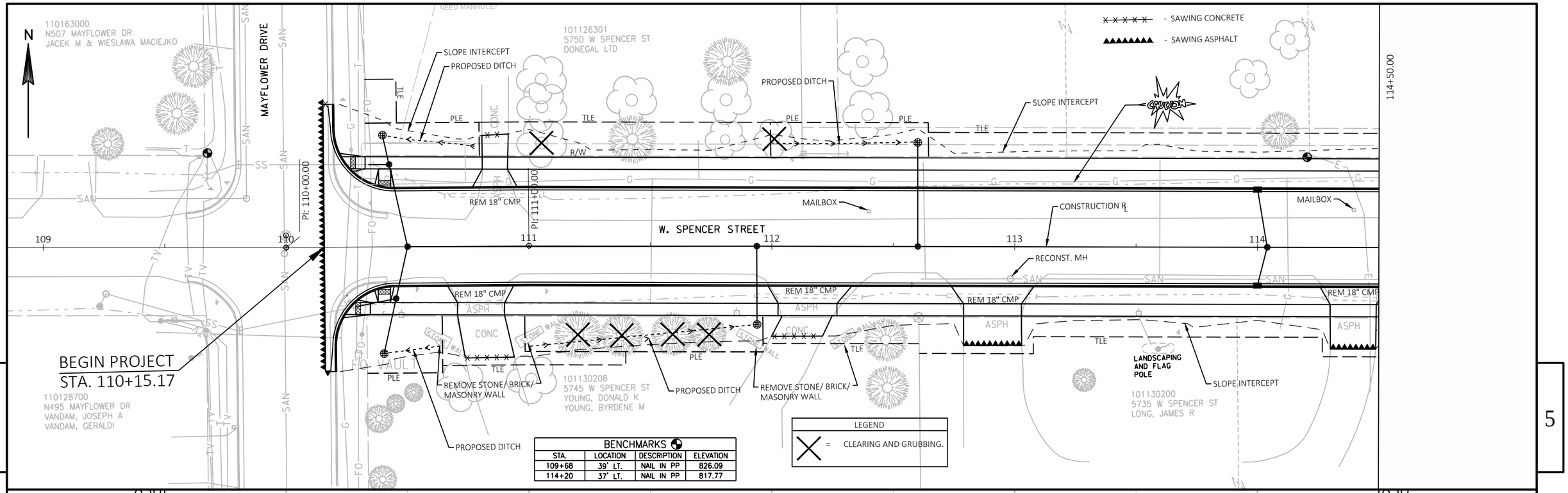
END RELOCATION ORDER
164+25.00
Y-561018.197
X-809311.037

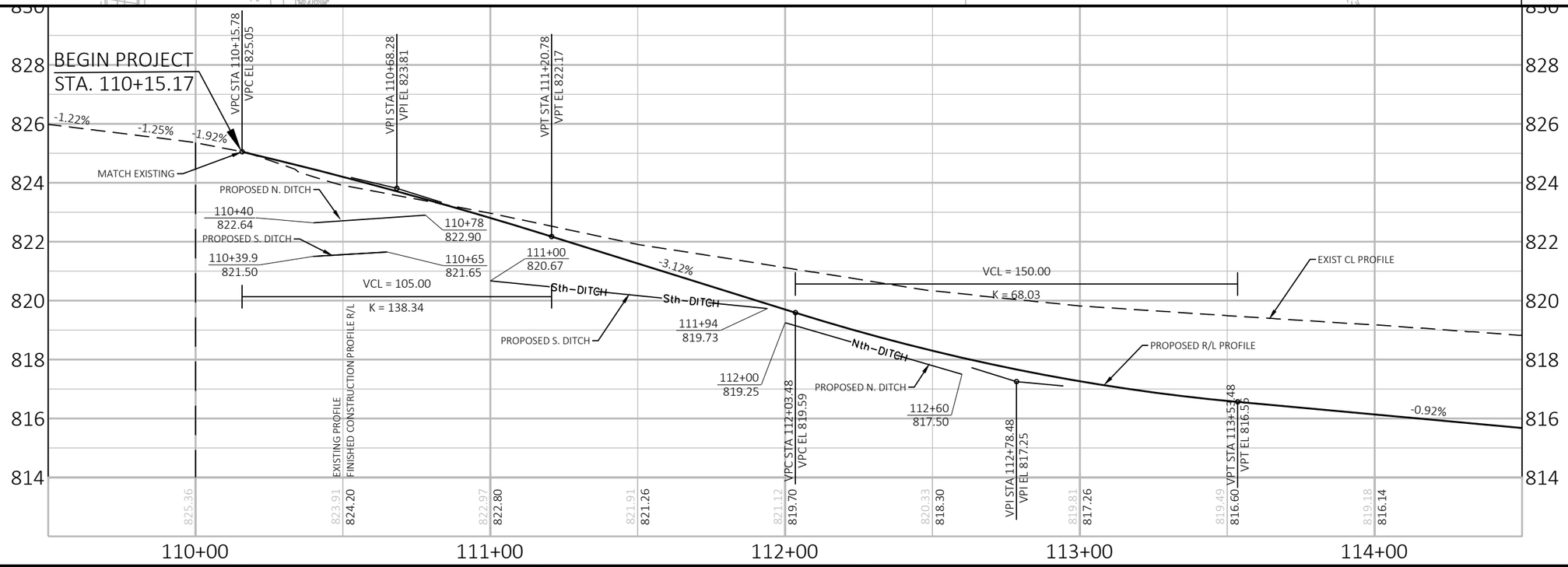
REVISION DATE	DATE 05/02/18	SCALE, FEET 0 20 40	HWY: SPENCER STREET	STATE R/W PROJECT NUMBER 4657-25-01	PLAT SHEET 4.15
	GRID FACTOR N/A		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 4657-25-01	PS&E SHEET 100 E

FILE NAME : SPENCER ST-RW PLAT.DWG
LAYOUT NAME - 15 Spencer St-15RW

PLOT DATE : 12/19/2018 2:51 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

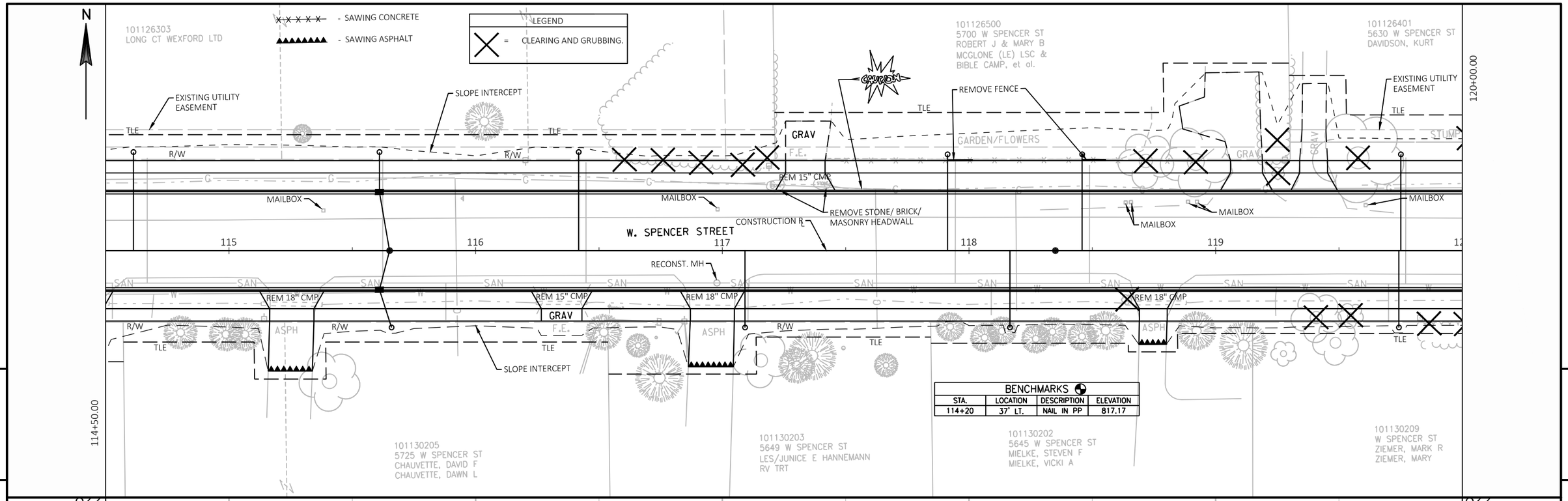
WISDOT/CADDS SHEET 75





PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 101	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 109+50.00
PLOT DATE : 12/19/2018 2:12 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 102	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 114+50.00
PLOT DATE : 12/19/2018 2:12 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
121+32	32' LT.	NAIL IN PP	810.37

LONG CT
WENDT, PATRICIA M

LONG CT. 1

102094500
222 S LONG CT
CAMPBELL, WALTER
CAMPBELL, REBECCA

N

SLOPE INTERCEPT
TLE
R/W
PI: 10+49.57
REM EX. 24" CMP
REM 12" CMP
REM 18" CMP
MAILBOX
CONSTRUCTION
W. SPENCER STREET
RECONST. MH
REMOVE STONE/ BRICK/ MASONRY HEADWALL
2" SUMP PUMP
CONC WITH PAVERS
SALVAGE AND RESET DRIVEWAY PAVER BRICKS
LANDSCAPING
SALVAGE AND RESET TIMBERS ALONG DRIVEWAY. MATCH INTO EXISTING TIMBERS.
ASPH
F.E.
SAN
G
W
120
121
122
123
124
125
120+00.00
125+50.00

101130500
5615 W SPENCER ST
RAMSEY, ANNE C

101130400
5601 W SPENCER ST
HAMMEN, MATTHEW J
HAMMEN, SARA C

101130300
5537 W SPENCER ST
KUEHL, CHRISTOPHER W
KUEHL, LAURA E

101129600
5523 W SPENCER ST
PAUL C/SHIRLEY A DUNKEL
DUNKEL IRREV REAL ESTATE TRUST, et al.

LEGEND	
X	= CLEARING AND GRUBBING.

- SAWING CONCRETE
- SAWING ASPHALT

EXIST CL PROFILE
PROPOSED R/L PROFILE
STA 121+00.00 EL 808.70
VCL = 105.00
K = 143.84
-2.24%
-1.73%
-0.99%
VPC STA 122+47.50 VPC EL 806.16
VPI STA 123+00.00 VPI EL 805.25
VPT STA 123+52.50 VPT EL 804.73
STA 125+00.00 EL 803.26

EXISTING PROFILE
FINISHED CONSTRUCTION PROFILE R/L

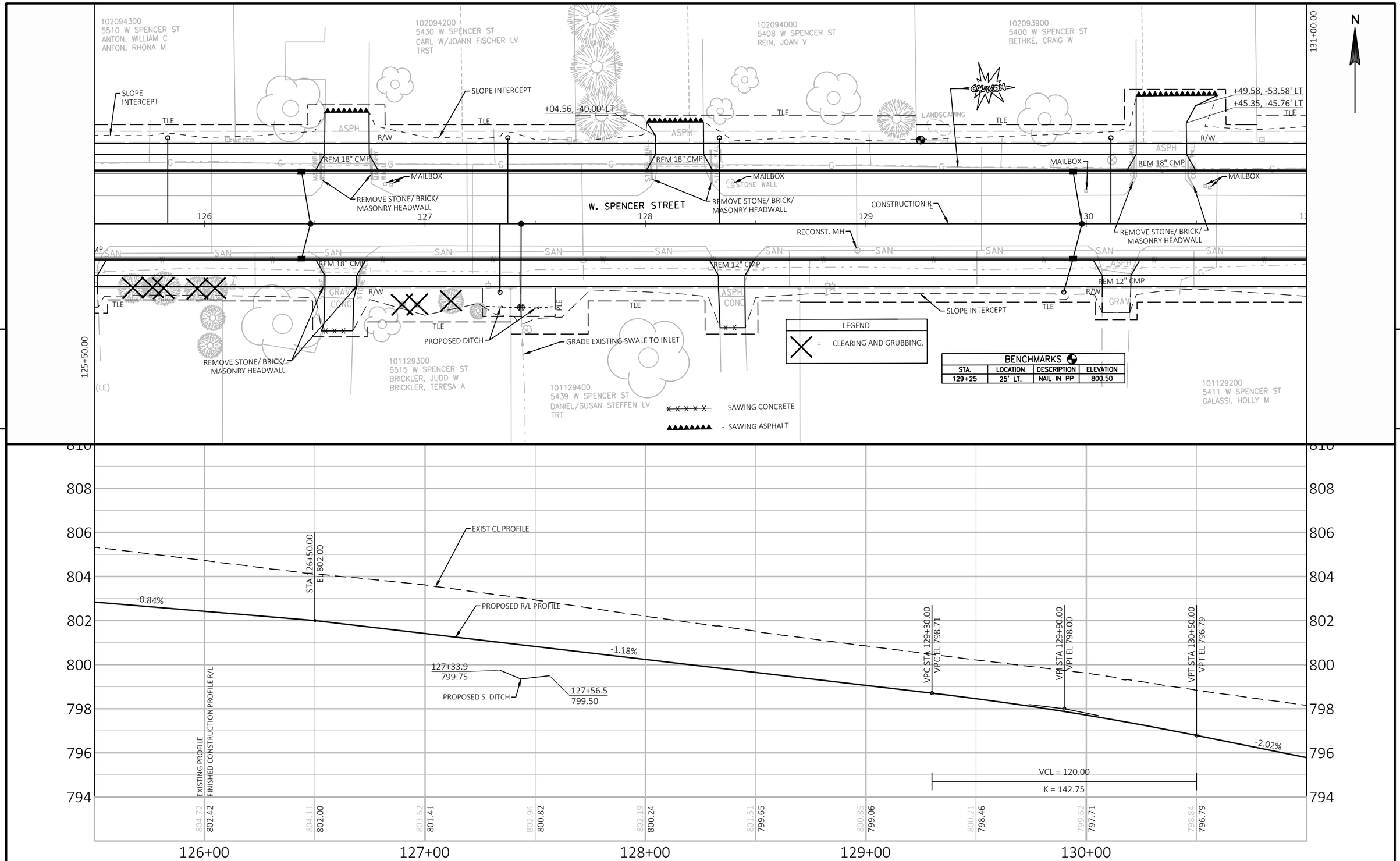
812.47	809.82	811.64	808.70	810.79	807.84	810.00	806.98	809.09	806.11
808.42	805.35	807.85	804.75	807.17	804.26	806.51	803.76	805.84	803.26

800 802 804 806 808 810 812 814

121+00 122+00 123+00 124+00 125+00

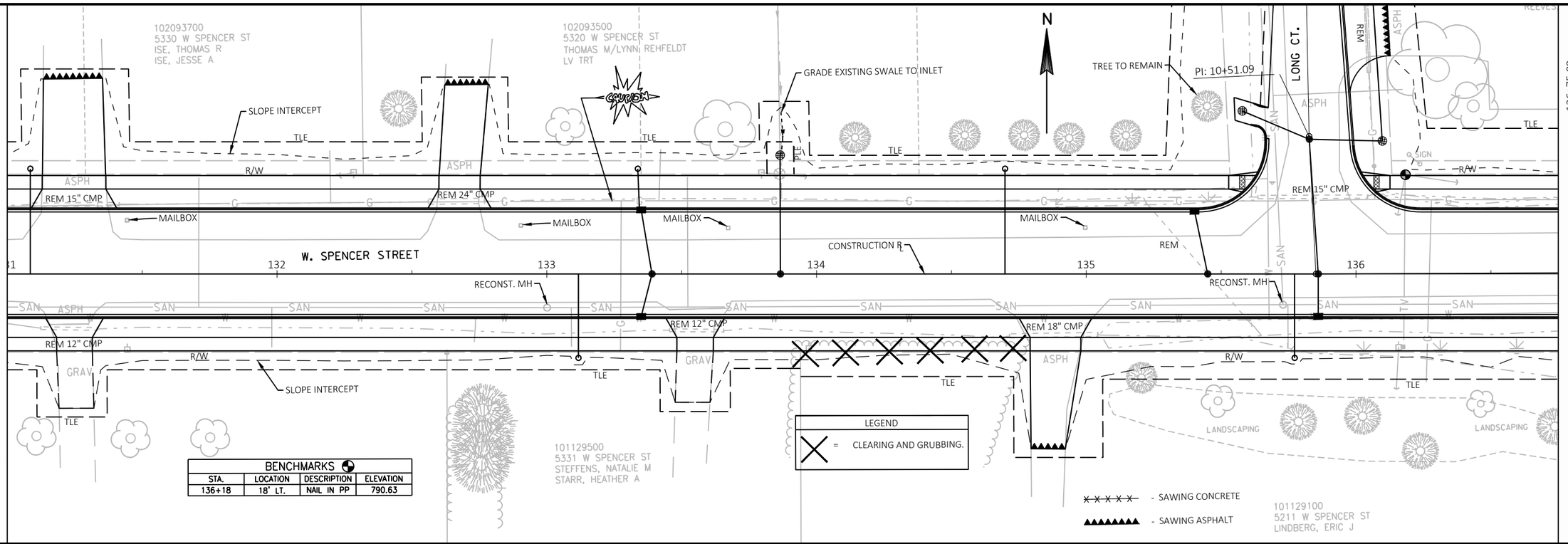
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 103	E

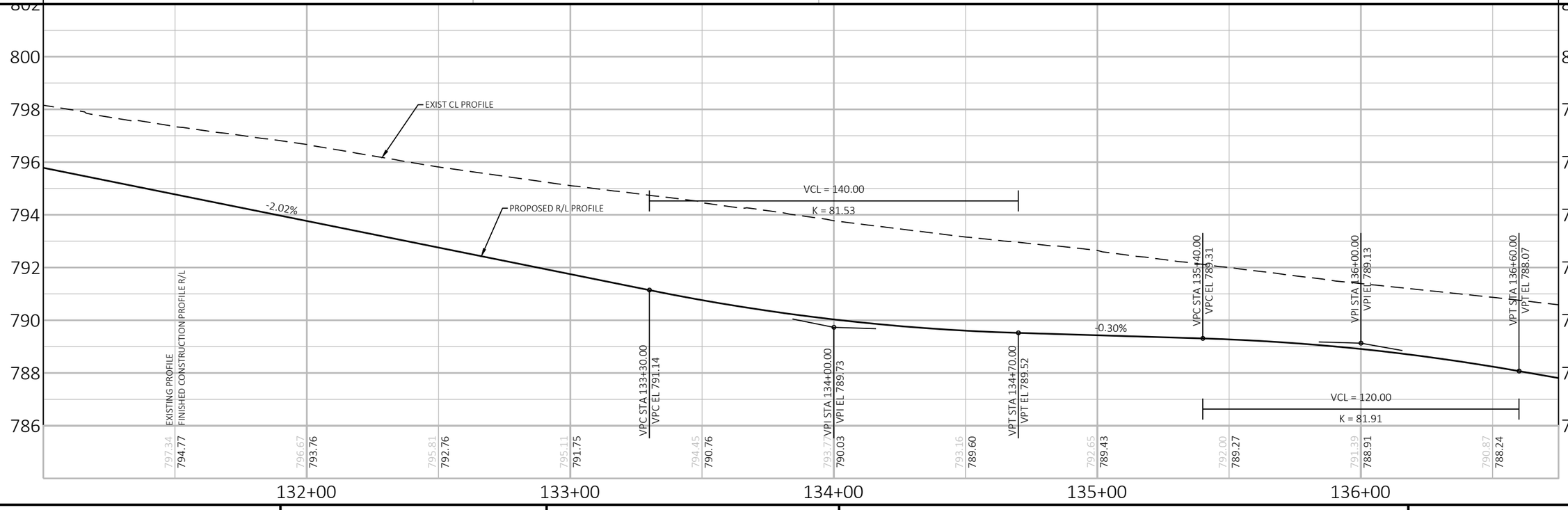
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 120+00.00
PLOT DATE : 12/19/2018 2:12 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 104	E

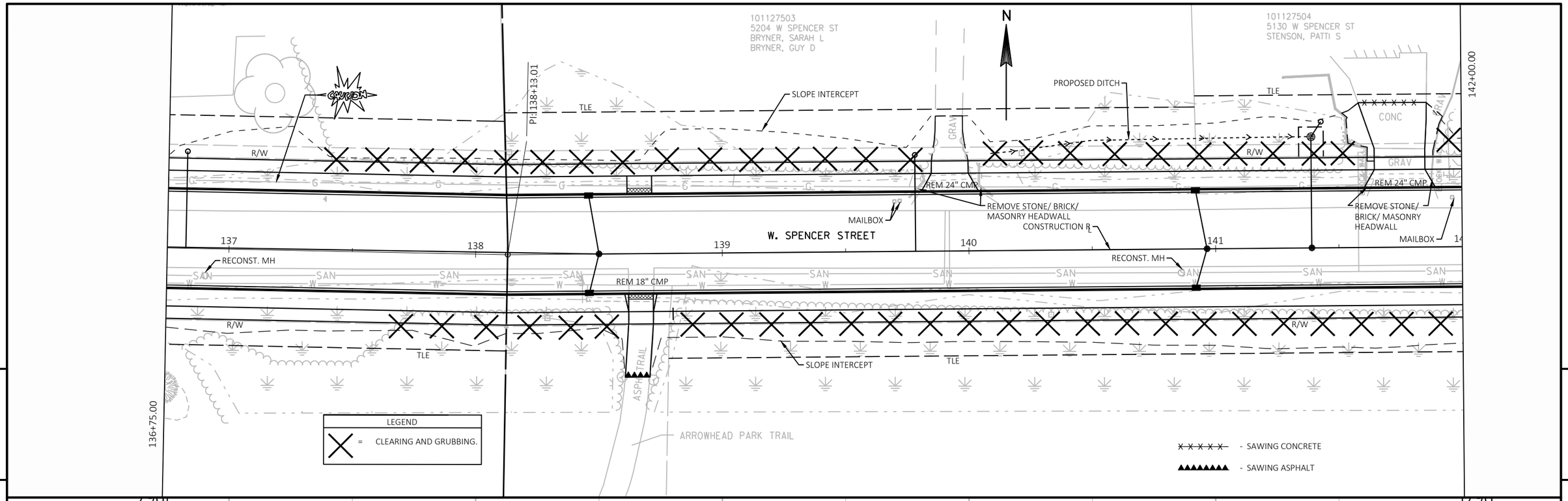
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 125+50.00
PLOT DATE : 12/19/2018 2:12 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40



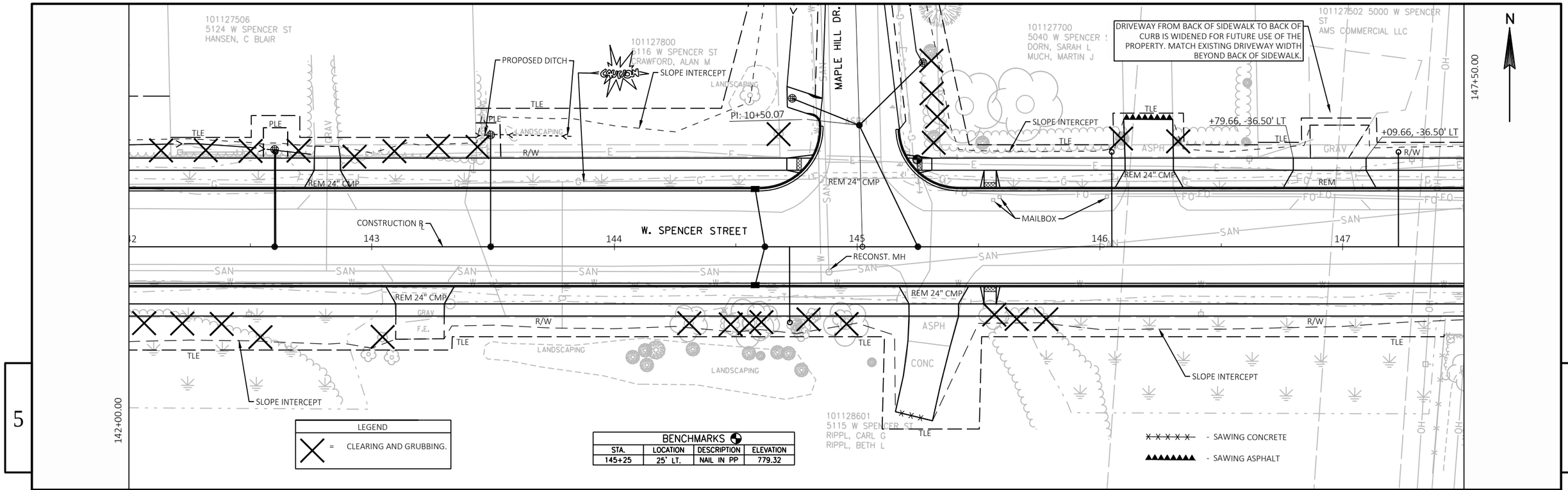


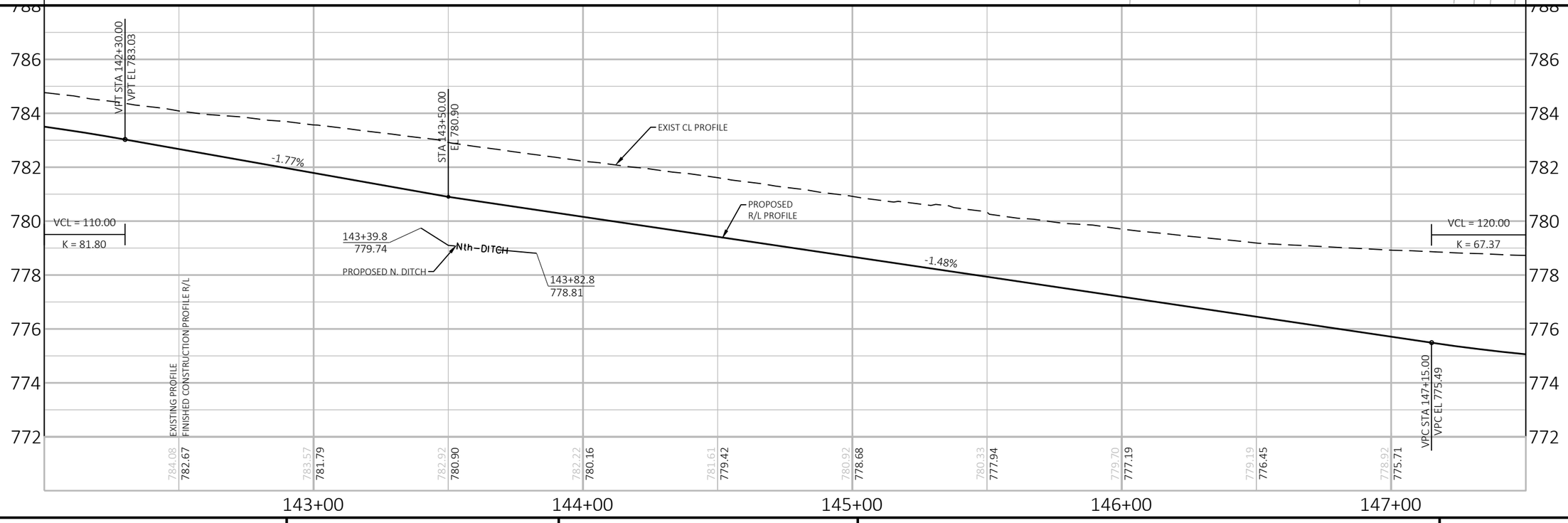
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 105	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 131+00.00
PLOT DATE : 12/19/2018 2:12 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40



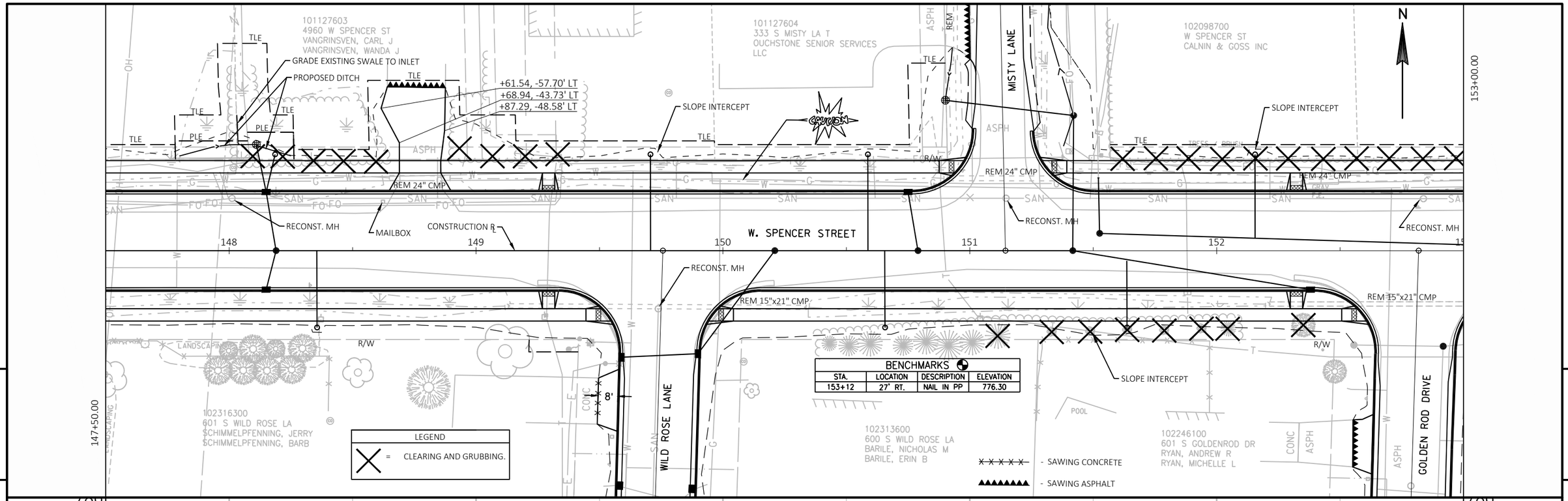
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 106	E





PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 107	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 142+00.00
PLOT DATE : 12/19/2018 2:12 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 108	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 147+50.00

PLOT DATE : 12/19/2018 2:13 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

153+00.00

158+50.00

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
153+12	27' RT.	NAIL IN LP	776.30
158+78	20' LT.	NAIL IN PP	772.70

102098600 W SPENCER ST
CALNIN & GOSS INC

102098500 W SPENCER ST
CALNIN & GOSS INC

102098400 4826 W SPENCER ST
SAUTER, MICHAEL R
SAUTER, KATHRYN

102098300
4816 W SPENCER ST SAUTER, MICHAEL R SAUTER, KATHRYN

102098200
W SPENCER ST
TOWN OF GRAND CHUTE
SANTRY D#2

102098100
W SPENCER ST
RING MARITAL TRUST

N

STATION AND OFFSET ARE TO THE END/CENTER OF PIPE

+76.63, -45.89' LT
INV 766.34 (TYP.) NORTH

+87.62, -45.89' LT

TLE

PLE

CONCRETE MASONRY ENDWALL

SLOPE INTERCEPT

REM 24" CMP

REM 24" CMP

MAILBOX

W. SPENCER STREET

RECONST. MH

2- 87" x 63" CSCP

69°

CONSTRUCTION R L

ACCESS TO BE ELIMINATED

REM 18" CMP

R/W

LANDSCAPING AND TIMBERS

LANDSCAPING AND TIMBERS

POOL EDGE

GARDEN

LANDSCAPING

SLOPE INTERCEPT

CONCRETE MASONRY ENDWALL

+09.34, 38.53' RT

+20.33, 38.53' RT

INV 766.17 (TYP.) SOUTH

STATION AND OFFSET ARE TO THE END/CENTER OF PIPE

LEGEND

= CLEARING AND GRUBBING.

- SAWING CONCRETE

- SAWING ASPHALT

102246000
602 S GOLDENROD DR
NEWHOUSE, GERALD A
NEWHOUSE, KAREN L

102245900
4818 W WILDFLOWER LA
SCHRAMPFER, KARL H

102245800
4816 W WILDFLOWER LA
MILHAUPT, JOHN C
MILHAUPT, ELIZABETH

102245700
4814 W WILDFLOWER LA
BENOTCH, JOHN L
BENOTCH, JACQUELINE

154 155 156 157 158

780 778 776 774 772 770 768 766 764

STA 153+75.00
EL 776.58

STA 155+00.00
EL 773.95

EXIST CL PROFILE

VCL = 110.00
K = 84.71

VPC STA 157+65.00
VPC EL 773.72

VPI STA 158+20.00
VPI EL 774.22

-0.41%

0.30%

-0.38%

0.91%

PROPOSED R/L PROFILE

VPC STA 156+50.00
VPC EL 773.38

VPI STA 157+05.00
VPI EL 773.17

VPT STA 157+60.00
VPT EL 773.67

VCL = 110.00
K = 60.61

EXISTING PROFILE
FINISHED CONSTRUCTION PROFILE R/L

776.36 773.68
776.28 773.65
776.01 773.80
775.78 773.95
775.56 773.76
775.27 773.57
774.98 773.38
774.67 773.33
774.34 773.59
774.22 773.94

154+00 155+00 156+00 157+00 158+00

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 153+00.00

PLOT DATE : 12/21/2018 9:57 AM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
158+78	20' LT.	NAIL IN PP	772.70

102098000
4740 W SPENCER ST
RING MARITAL TRUST

102097900
4726 W SPENCER ST
RING MARITAL TRUST

102097800
4718 W SPENCER ST
OTTMAN, CARRIE A
BERNIER, BRETT J

102097700
4706 W SPENCER ST
WERNER, DONALD P
WERNER, KAREN

102243700
4715 BUTTERCUP CT
KOENAMAN, CHRISTINE A
LASALLE, JAMES J, et al.

102243600
4708 BUTTERCUP CT
VANDERLOOP, JANE M

W. SPENCER STREET

BUTTERCUP COURT

GRADE EXISTING SWALE TO INLET

PROPOSED DITCH

SLOPE INTERCEPT

REM 24" CMP

REM 18" CMP

CONSTRUCTION R

MAILBOX

R/W

PLE

TLE

DO NOT DISTURB SHED

SALVAGE AND RESET FENCE
162+83.84, 29.00' RT
162+83.32, 55.00' RT

LEGEND	
X	= CLEARING AND GRUBBING.
XXXXX	- SAWING CONCRETE
▲▲▲▲▲▲▲	- SAWING ASPHALT

158+50.00

163+00.00

159 160 161 162

N

780 778 776 774 772 770 768 766 764

VPT STA 158+75.00
VPT EL 773.73

VCL = 120.00
K = 51.38

VPC STA 160+15.00
VPC EL 773.98

VPI STA 160+75.00
VPI EL 774.84

VPT STA 161+35.00
VPT EL 774.40

VCL = 105.00
K = 99.87

EXIST CL PROFILE

-0.90%

1.44%

-0.74%

VCL = 110.00
K = 60.61

158+94
770.09

159+79
772.36

160+68
773.20

VCL = 120.00
K = 55.14

161+20
772.69

161+90
773.76

162+25
772.50

162+44
772.25

163+00
772.12

PROPOSED R/L PROFILE
PROPOSED N. DITCH
PROPOSED S. DITCH
Nth-DITCH
Sth-DITCH
DITCH HP

VPC STA 158+90.00
VPC EL 773.59

VPI STA 159+50.00
VPI EL 773.05

VPT STA 160+10.00
VPT EL 773.91

VPC STA 161+97.50
VPC EL 773.94

VPI STA 162+50.00
VPI EL 773.55

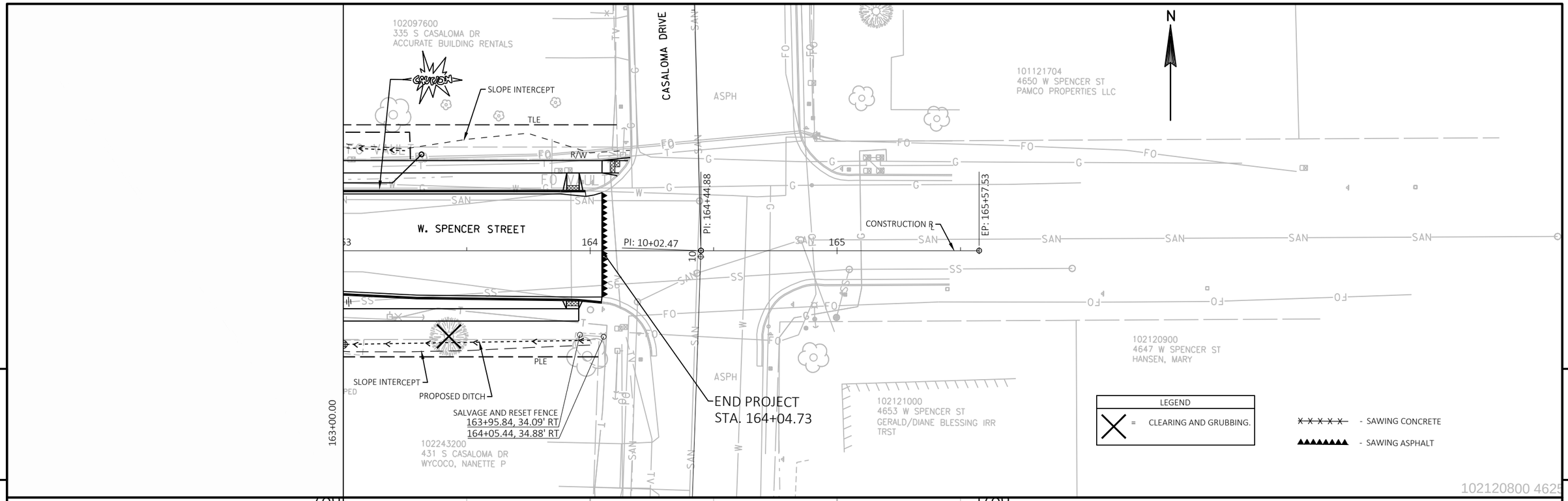
EXISTING PROFILE
FINISHED CONSTRUCTION PROFILE R/L

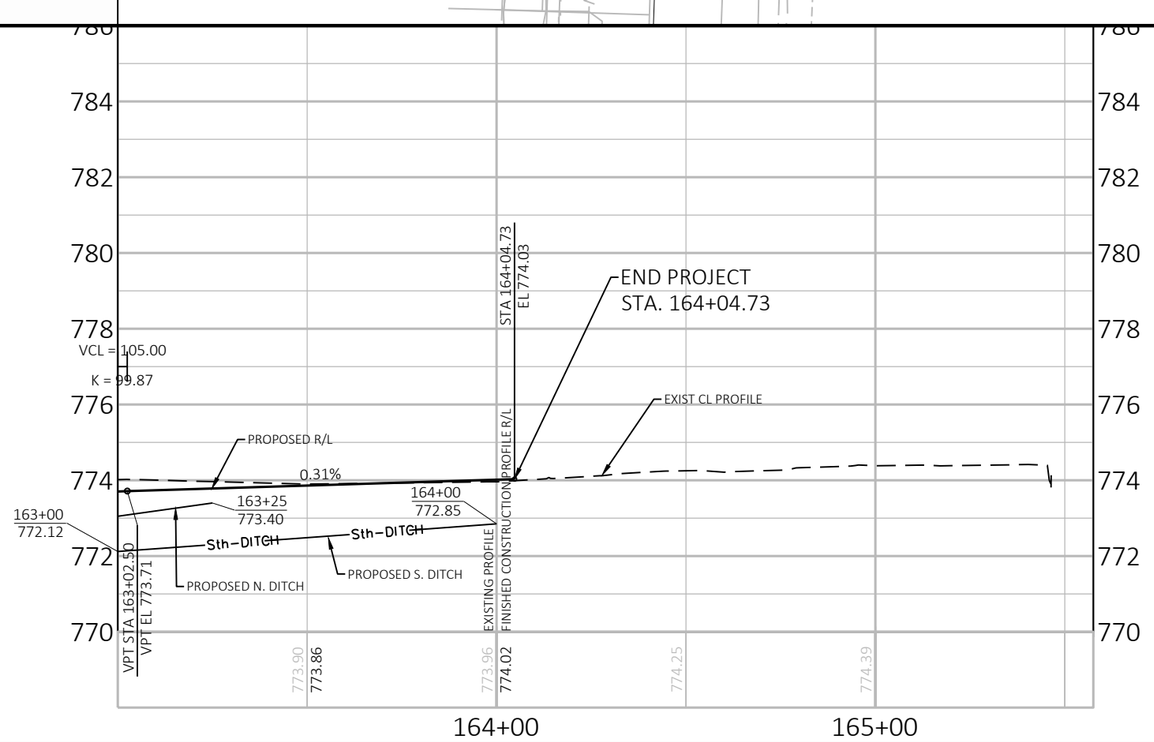
774.19 773.51 | 774.17 773.40 | 774.28 773.78 | 774.27 774.37 | 774.39 774.55 | 774.32 774.29 | 774.34 773.92 | 774.21 773.69

159+00 160+00 161+00 162+00

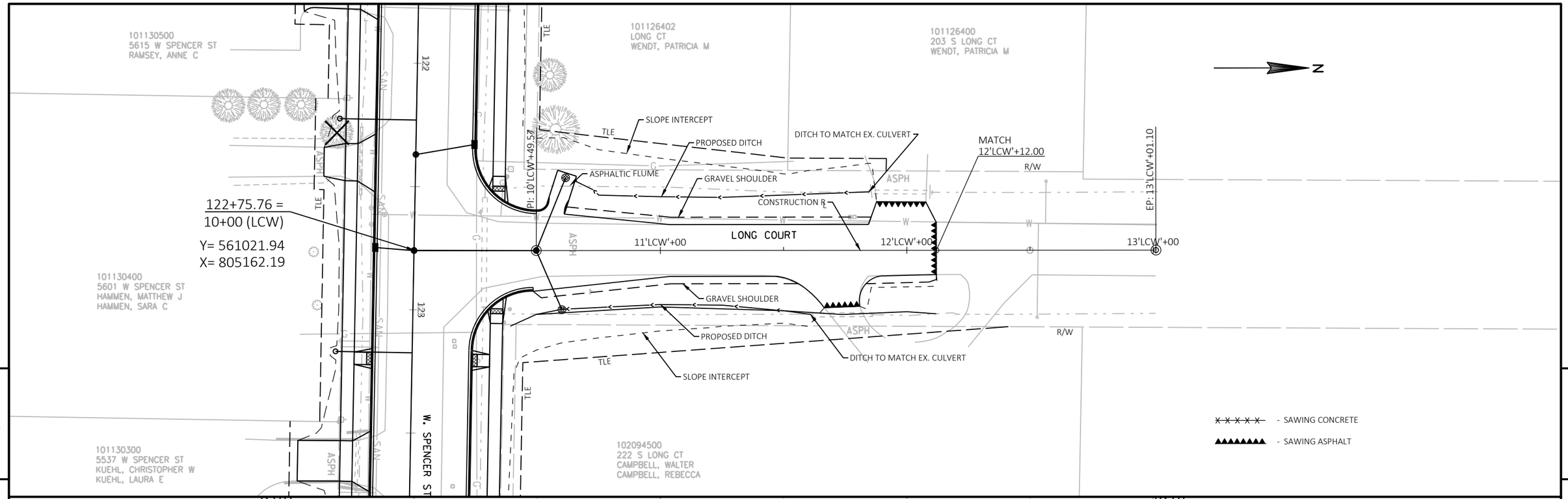
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 110	E

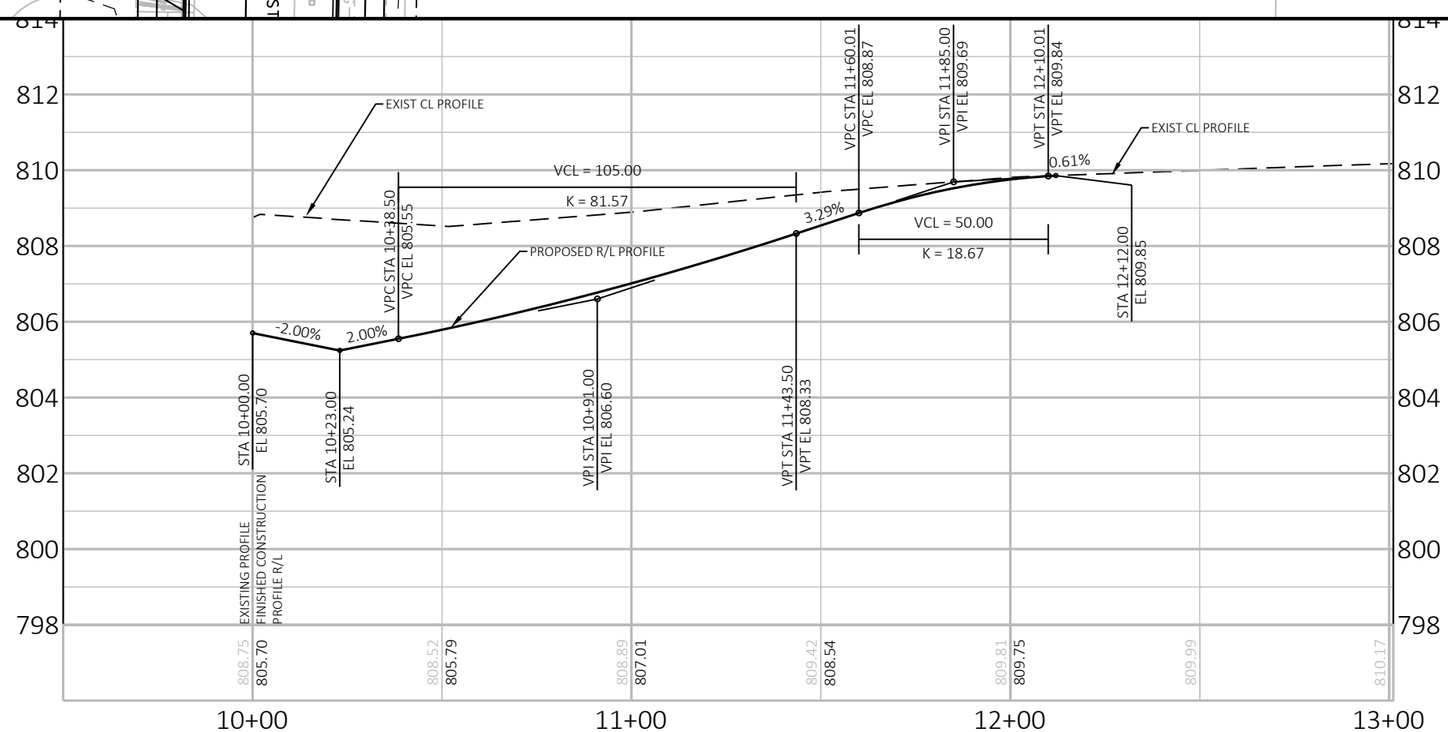
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-PLAN&PROF.DWG
LAYOUT NAME - 158+50.00
PLOT DATE : 12/19/2018 2:13 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1:40





PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: SPENCER STREET	SHEET 111	E



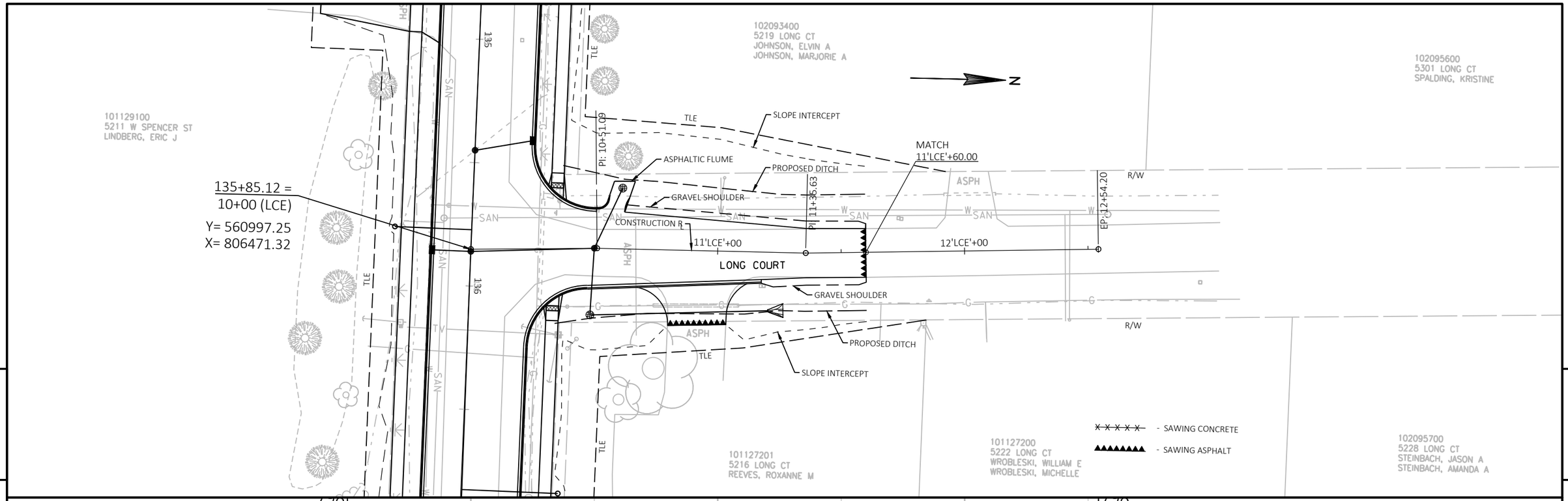


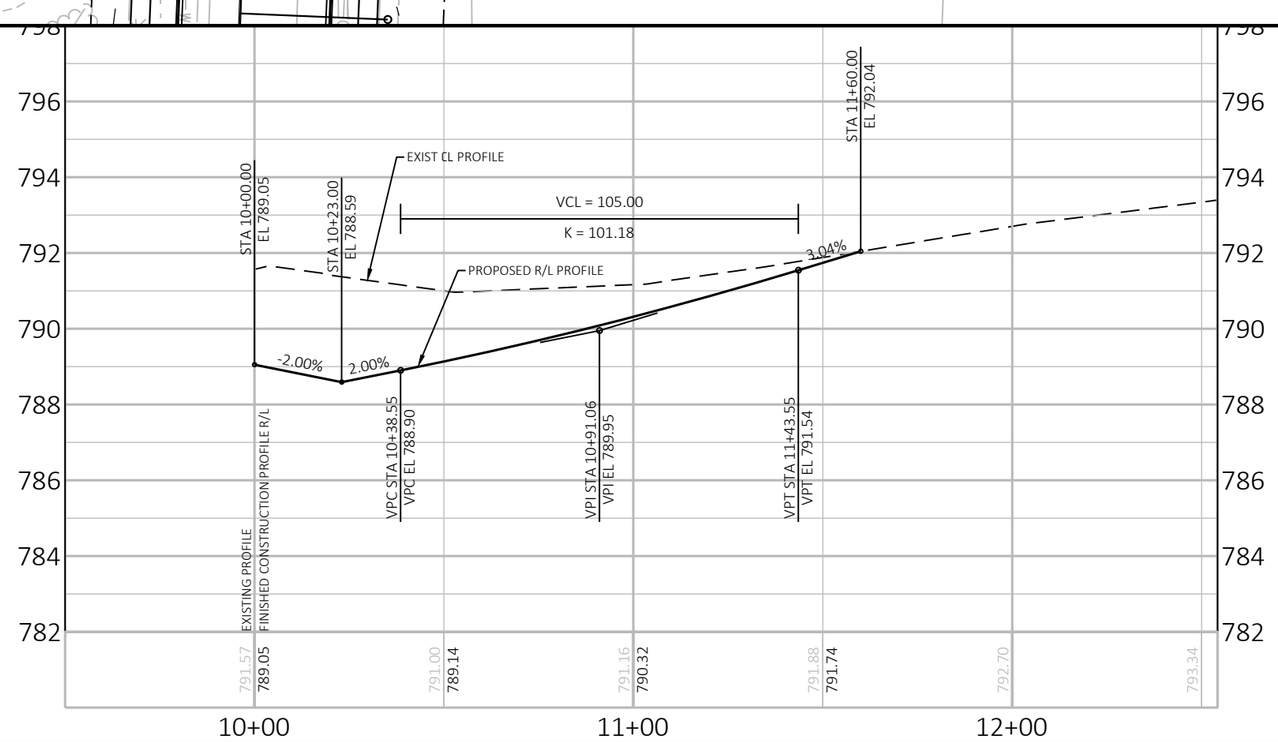
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: LONG COURT (WEST)	SHEET 112	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-SIDEROAD-P&P.DWG
LAYOUT NAME - LCW PP

PLOT DATE : 12/19/2018 2:13 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

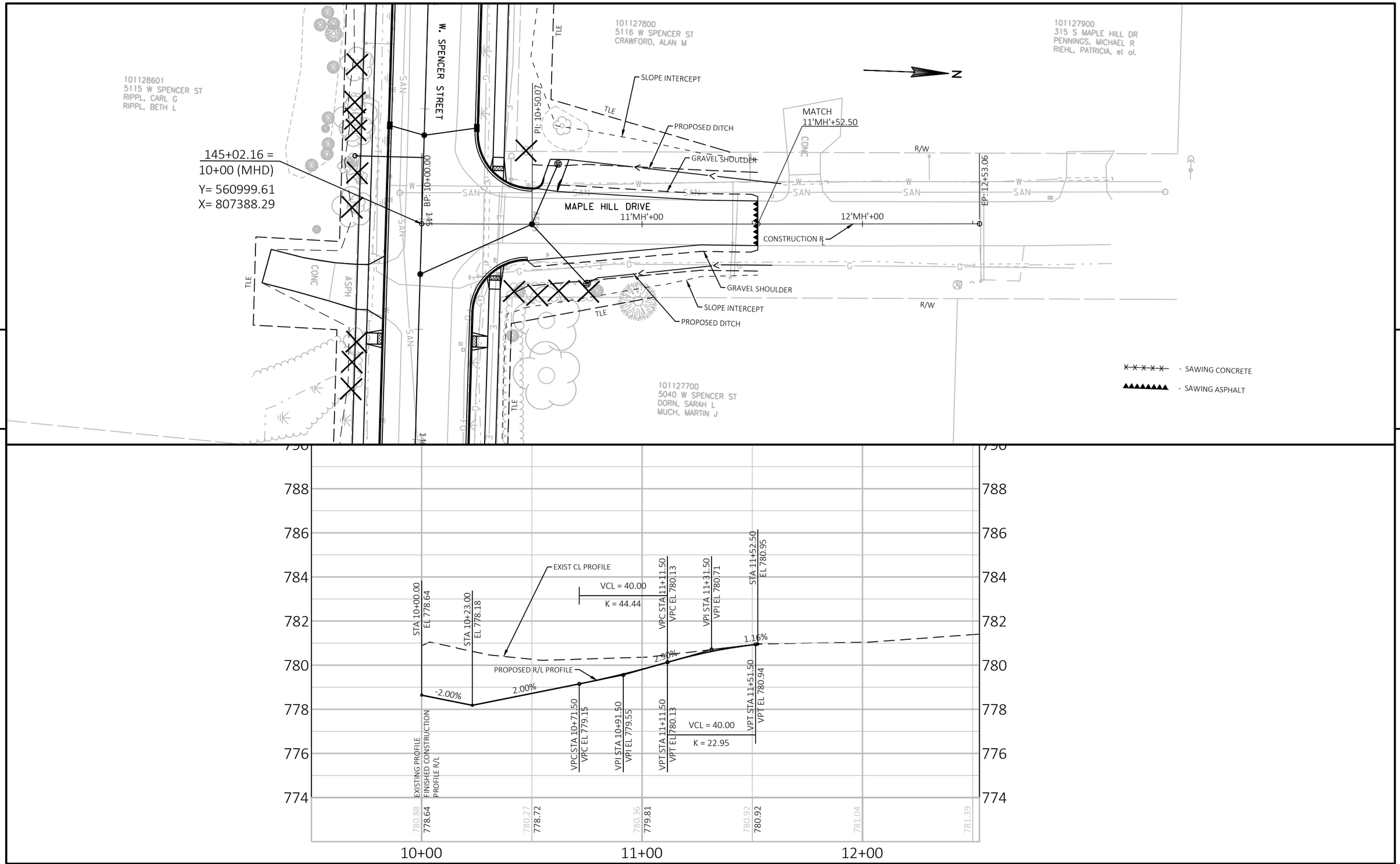




PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: LONG COURT (EAST)	SHEET 113	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-SIDEROAD-P&P.DWG
LAYOUT NAME - LCE PP

PLOT DATE : 12/19/2018 2:13 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: MAPLE HILL DRIVE	SHEET 114	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-SIDEROAD-P&P.DWG
LAYOUT NAME - MH PP

PLOT DATE : 12/19/2018 2:13 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

102316100
605 S WILD ROSE LA
ROMBERG, BRUCE M
ROMBERG, LISA F

102316200
603 S WILD ROSE LA
GEORGE, ANDREW M

102316300
601 S WILD ROSE LA
SCHIMMELPFENNING, JERRY
SCHIMMELPFENNING, BARB

N

BP: 7'WR'+00.00

R/W

MATCH
8'WR'+75.00

SLOPE INTERCEPT

CONC

CONSTRUCTION R

8'WR'+00

9'WR'+00

WILD ROSE LANE

149+75.67 =
10'WR'+00
Y= 561004.19
X= 807861.78

SLOPE INTERCEPT

SLOPE INTERCEPT

R/W

W. SPENCER STREET

101127604
333 S MISTY LA T
OUCHSTONE SENIOR SERVICES
LLC

SLOPE INTERCEPT

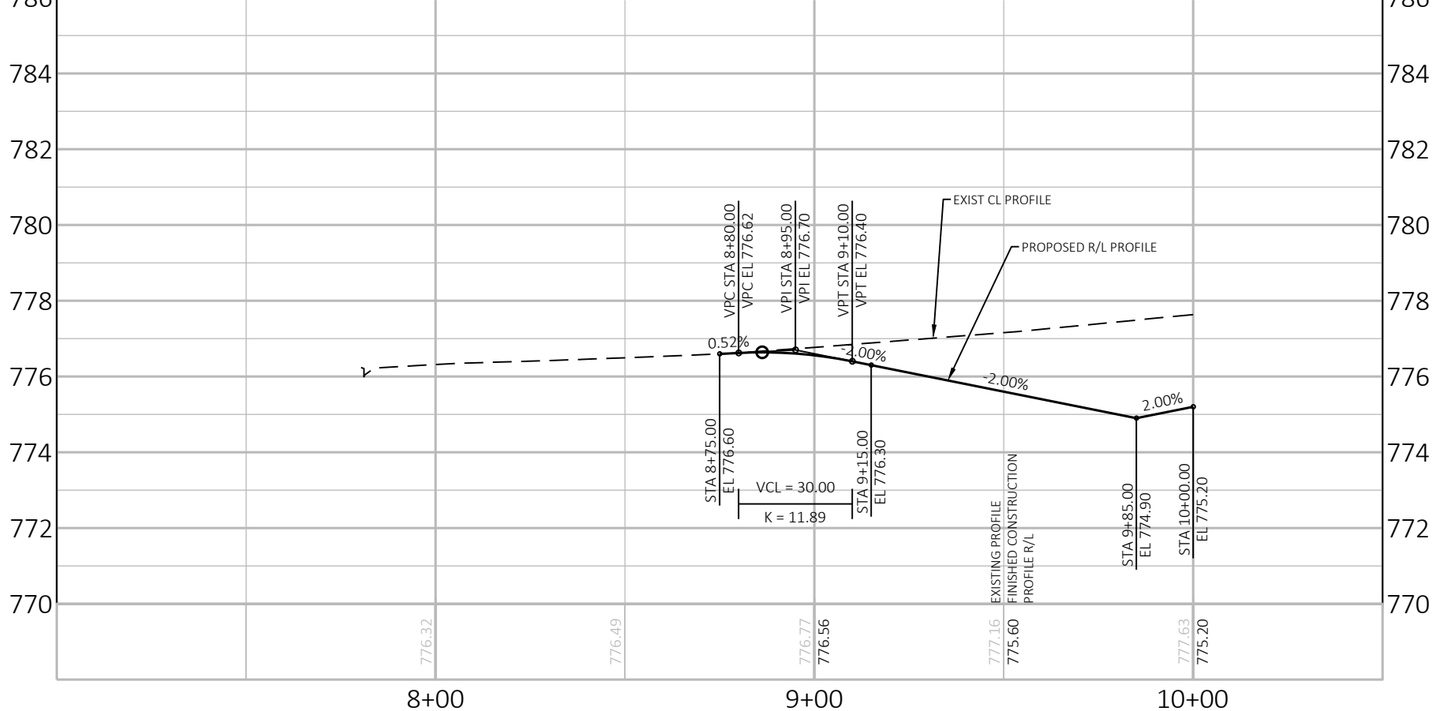
PROPOSED DITCH MATCH

- SAWING CONCRETE
- SAWING ASPHALT

102313800
604 S WILD ROSE LA
RASMUSSEN, ARLENE A

102313700
602 S WILD ROSE LA
CATHERINE M CALLAWAY

102313600
600 S WILD ROSE LA
BARILE, NICHOLAS M
BARILE, ERIN B

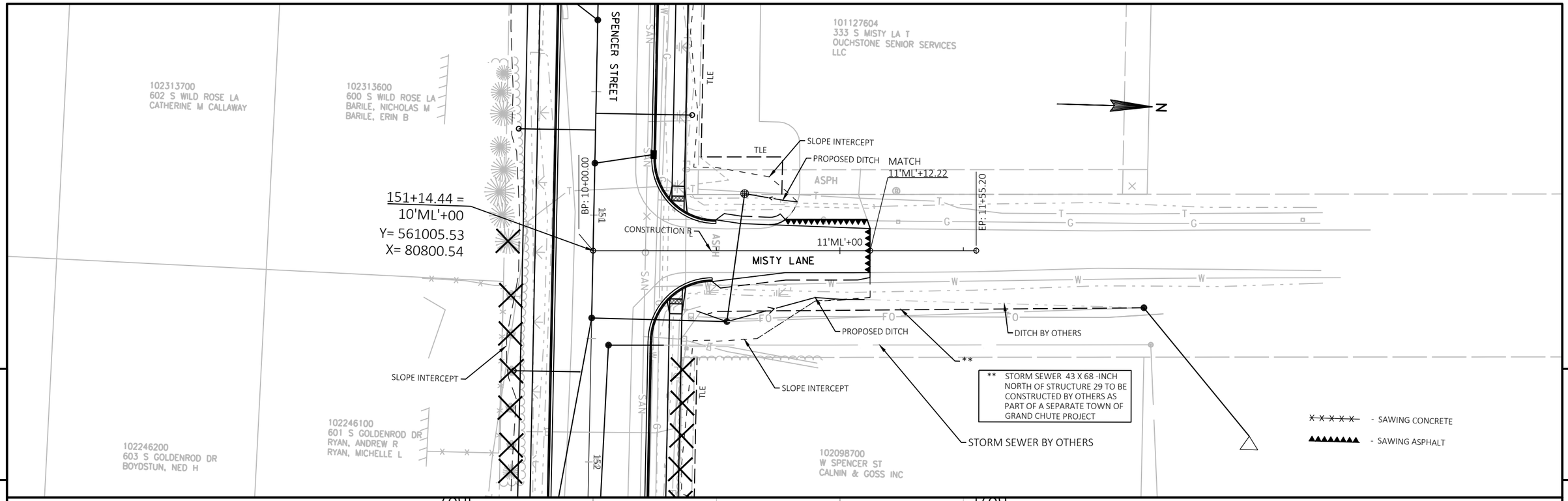


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: WILD ROSE LANE	SHEET 115	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-SIDEROAD-P&P.DWG
LAYOUT NAME - WR PP

PLOT DATE : 12/19/2018 2:14 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

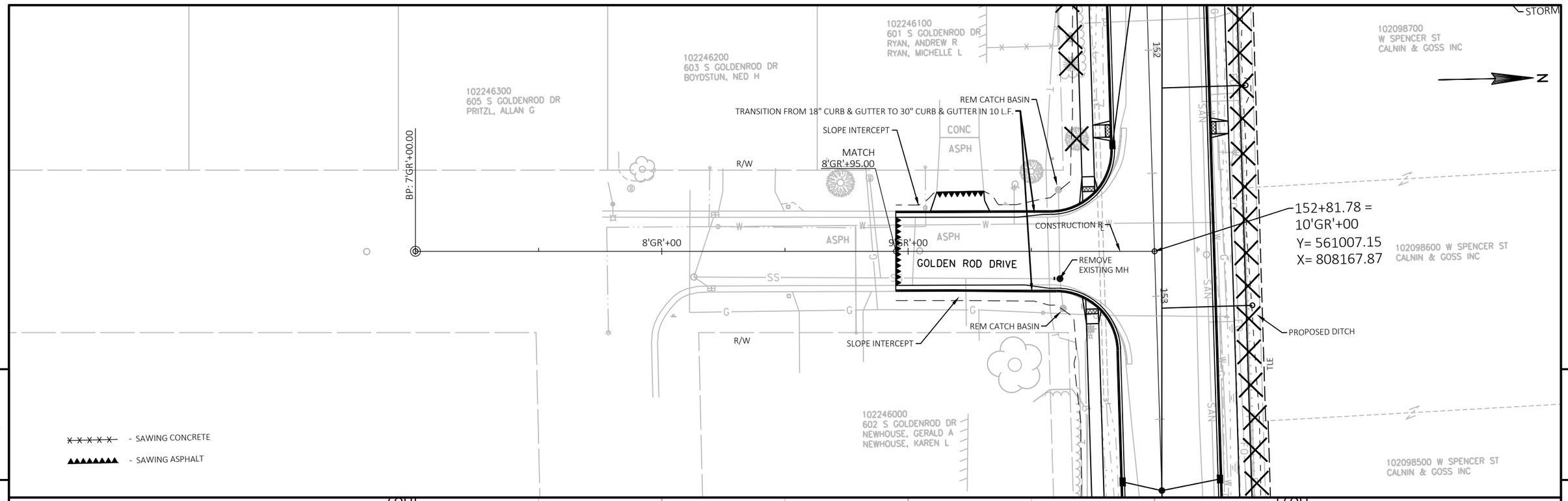


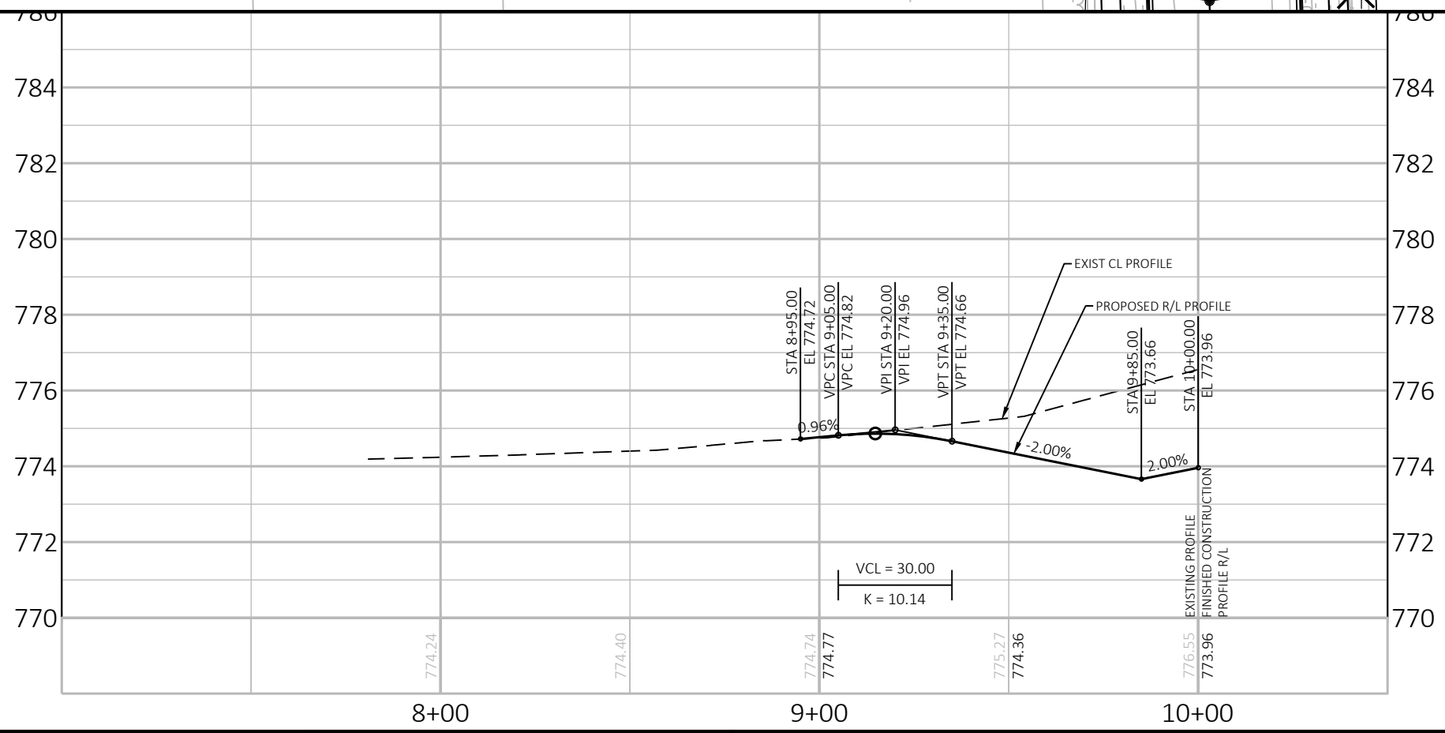
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: MISTY LANE	SHEET 116	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-SIDEROAD-P&P.DWG
LAYOUT NAME - MT PP

PLOT DATE : 12/19/2018 2:14 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GOLDEN ROD DRIVE	SHEET 117	E

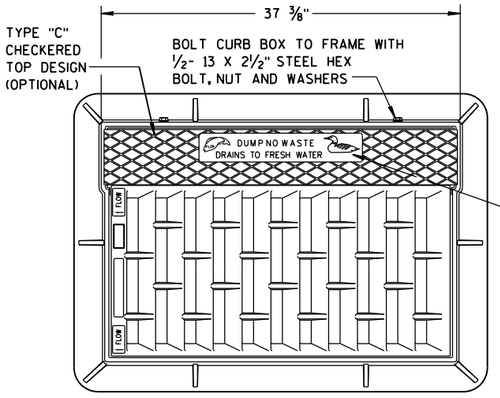
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PLAN SHEETS\05-SPENCER-SIDEROAD-P&P.DWG
LAYOUT NAME - GR PP

PLOT DATE : 12/19/2018 2:14 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

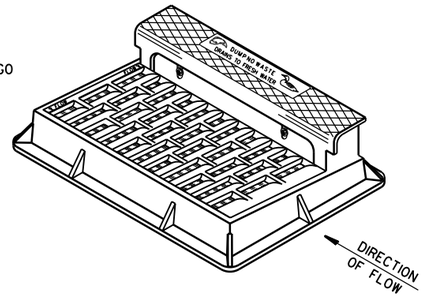
Standard Detail Drawing List

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
08B10-02	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
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
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

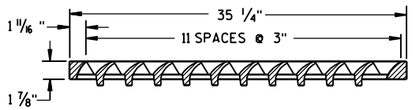
6

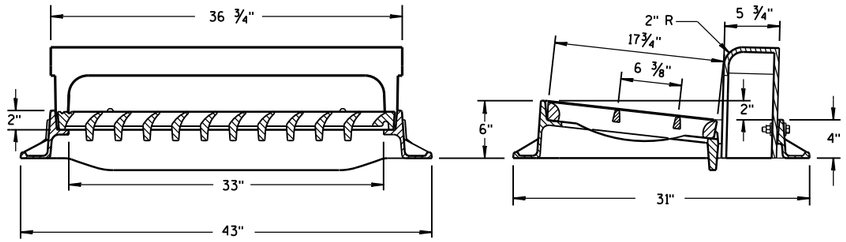


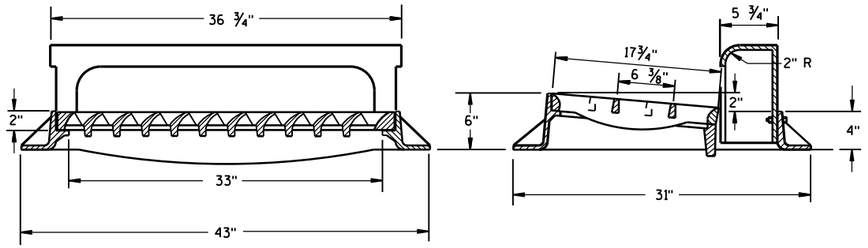
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

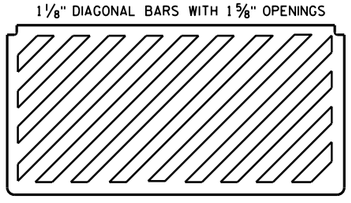






TYPE "H"

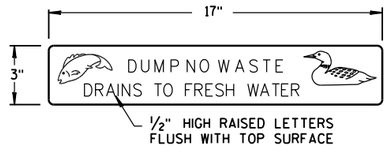
NOTE: EITHER CASTING IS ACCEPTABLE



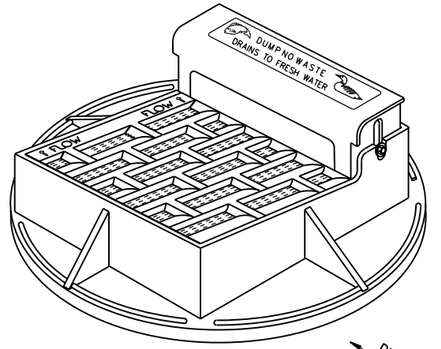
SPECIAL GRATE FOR TYPE "H" COVER

(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"

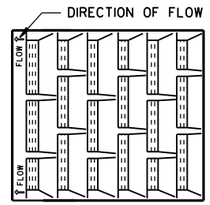
NOTE:
GRATE IS REVERSIBLE.

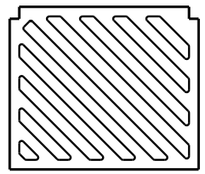
GENERAL NOTES

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.

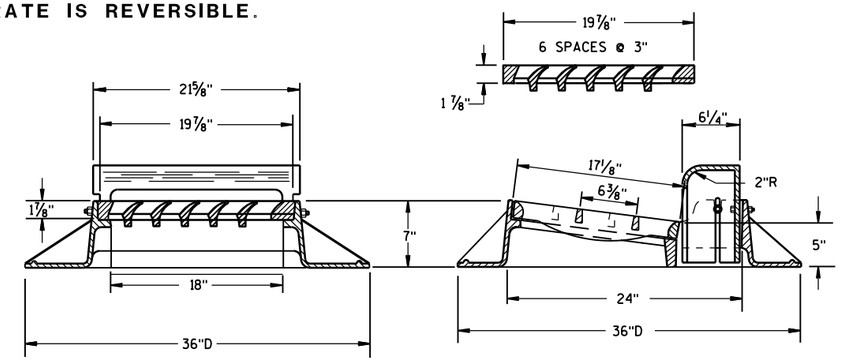




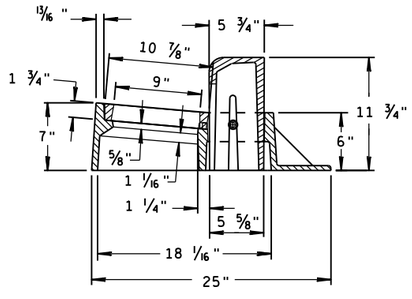
SPECIAL GRATE FOR TYPE "A" COVER

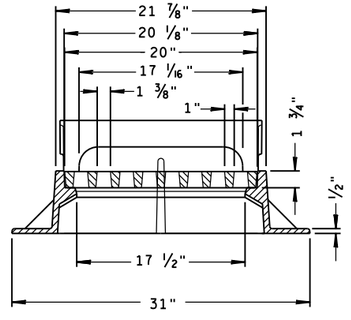
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

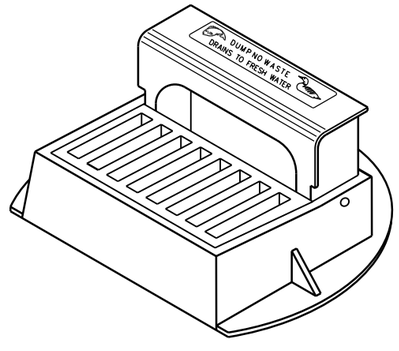


TYPE "A"





TYPE "Z"



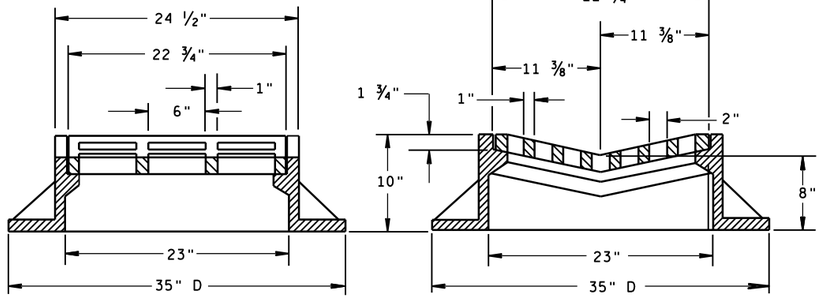
INLET COVERS
TYPE A, H, A-S, H-S & Z

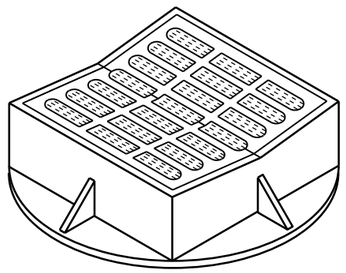
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

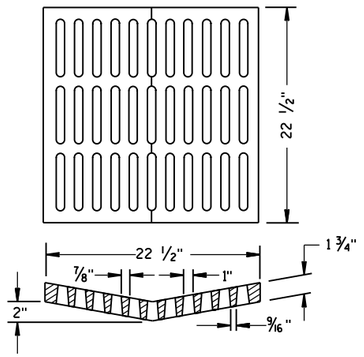
6

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



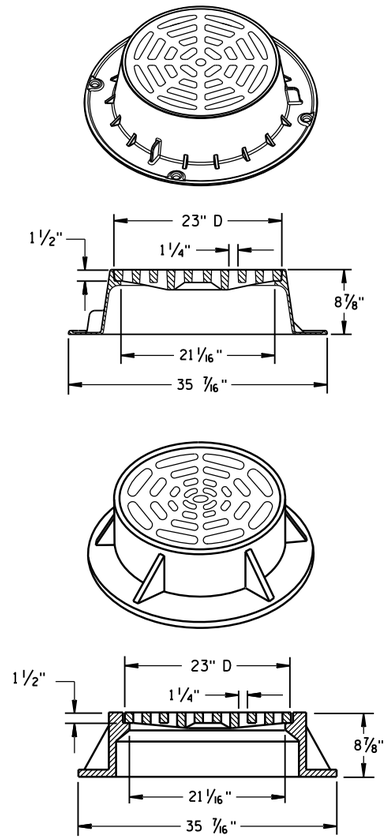


TYPE "B"



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"

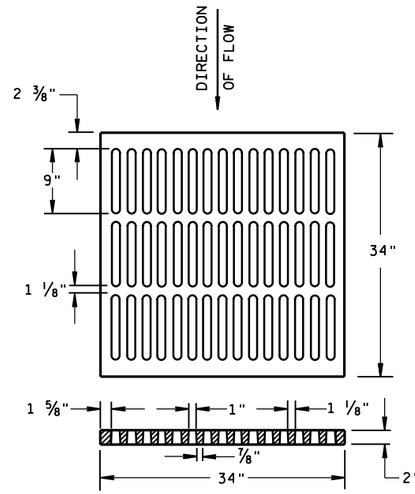
NOTE: EITHER CASTING IS ACCEPTABLE

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.

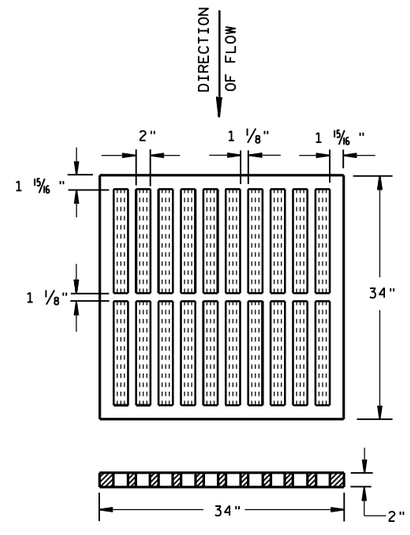
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



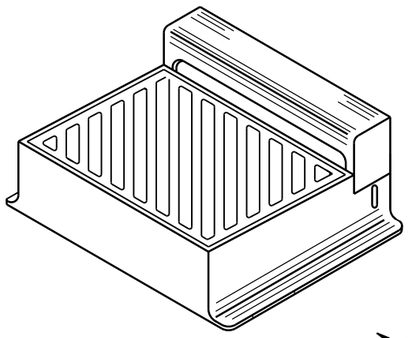
ALTERNATIVE TYPE "MS"

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

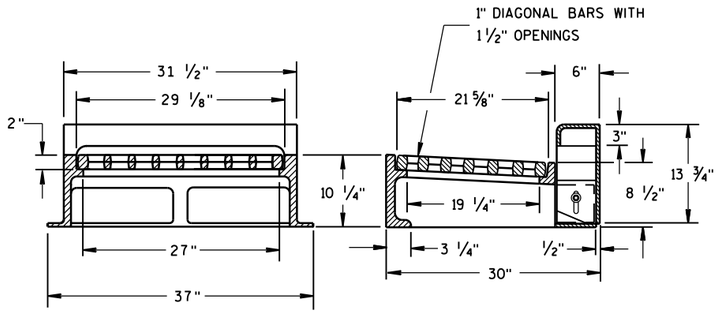


TYPE "MS"

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"

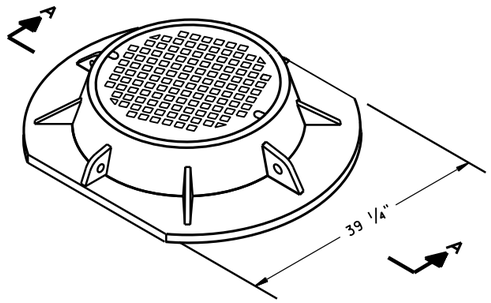
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

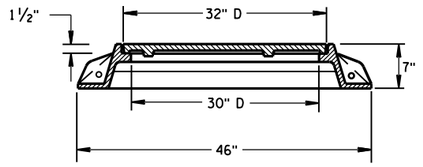
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

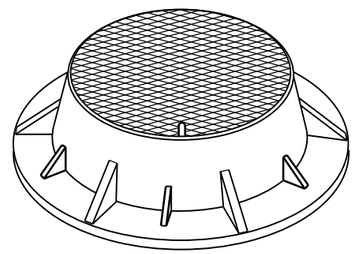
6

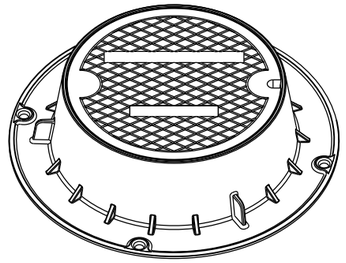
S.D.D. 8 A 5-19b

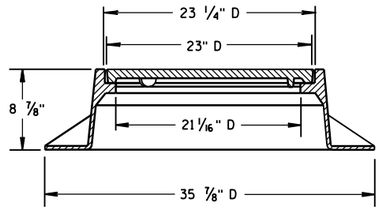


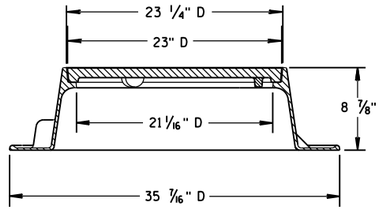


SECTION A-A
TYPE "K"









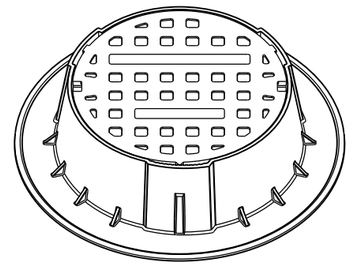
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

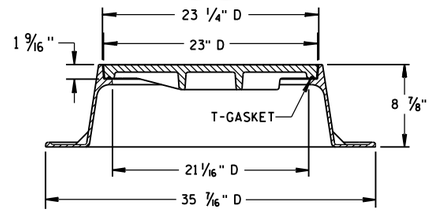
GENERAL NOTES

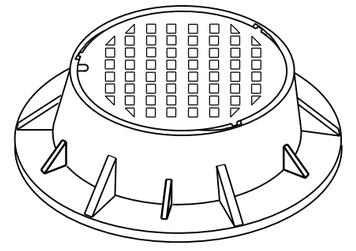
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

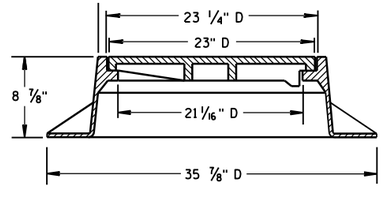
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

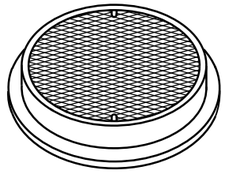


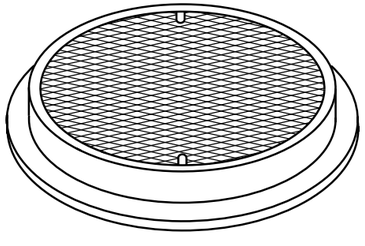


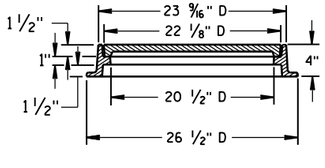




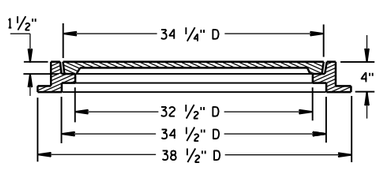
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



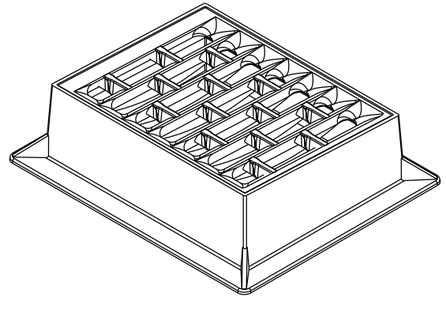


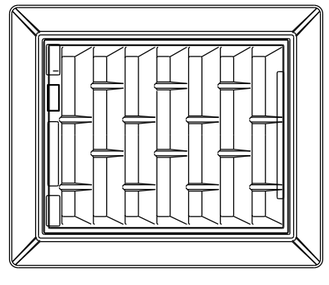


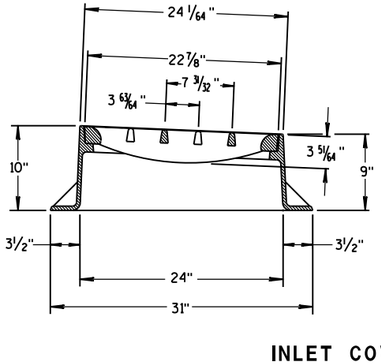
TYPE "L"

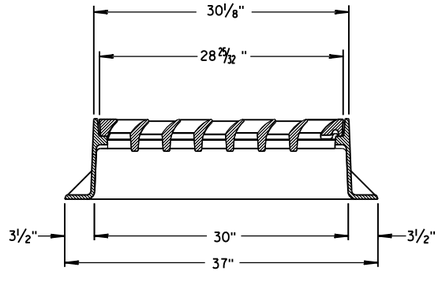


TYPE "M"









INLET COVER TYPE "BW"

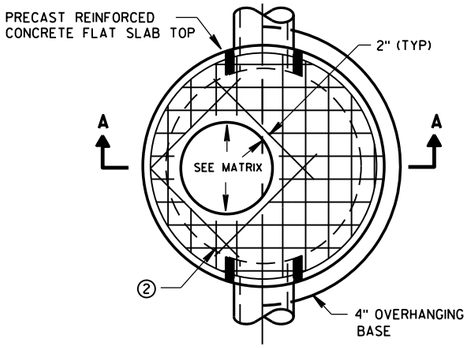
INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

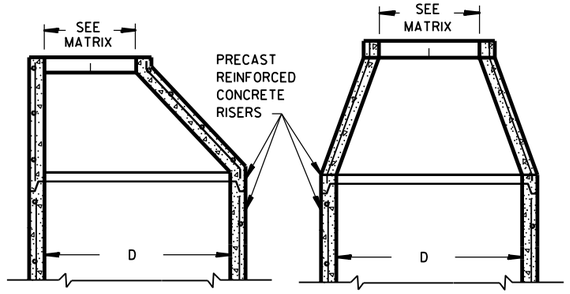
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

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

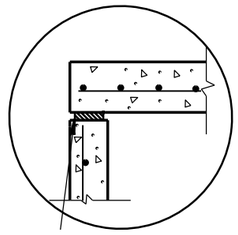


PLAN VIEW CIRCULAR OPENING

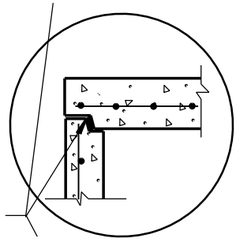


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

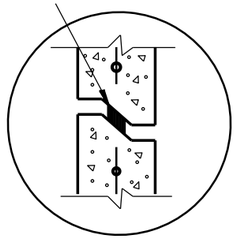


TOP WITH PLAIN END JOINT



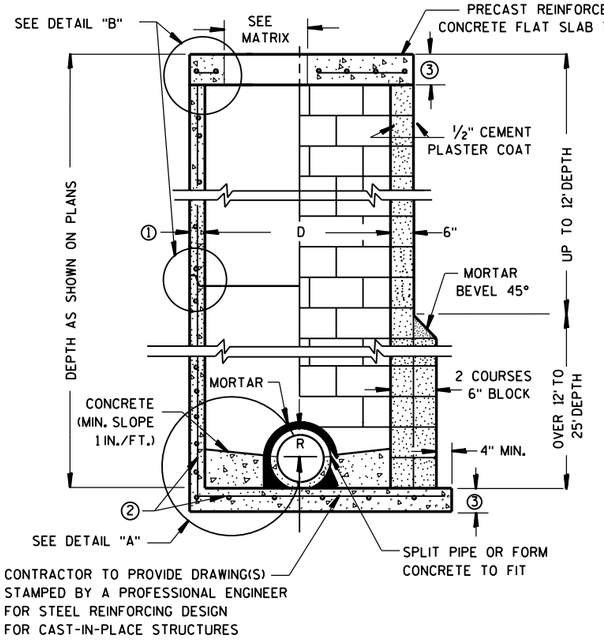
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



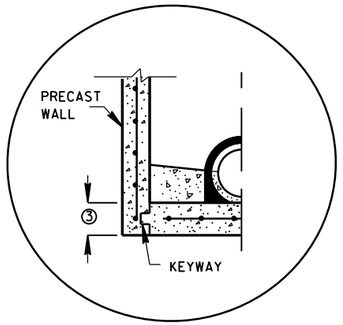
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

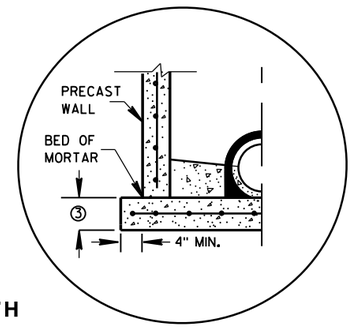


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

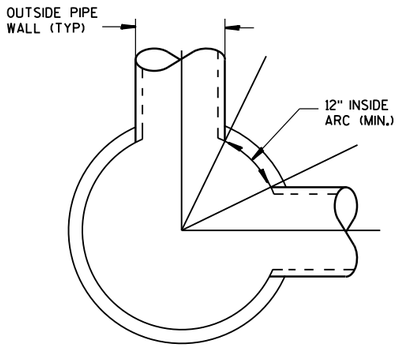


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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

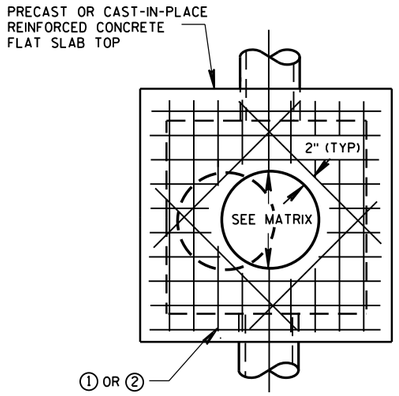
APPROVED

Sept., 2016
DATE

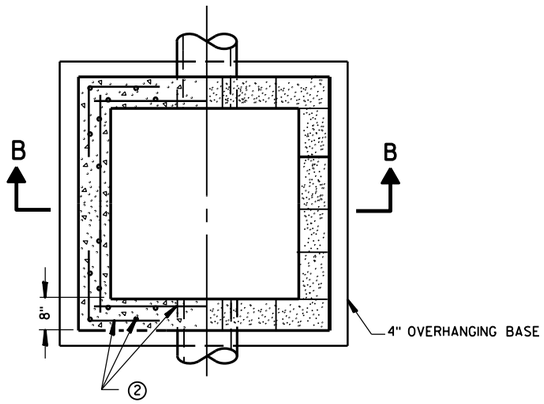
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

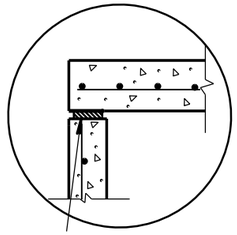
6
S.D.D. 8 B 9-2



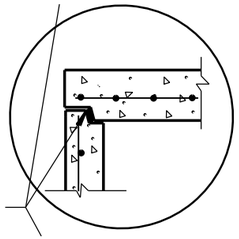
PLAN VIEW
CIRCULAR OPENING



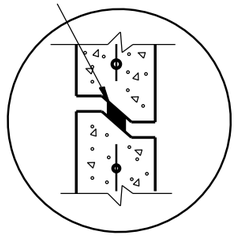
SECTION A-A
PLAN VIEW



TOP WITH PLAIN END JOINT

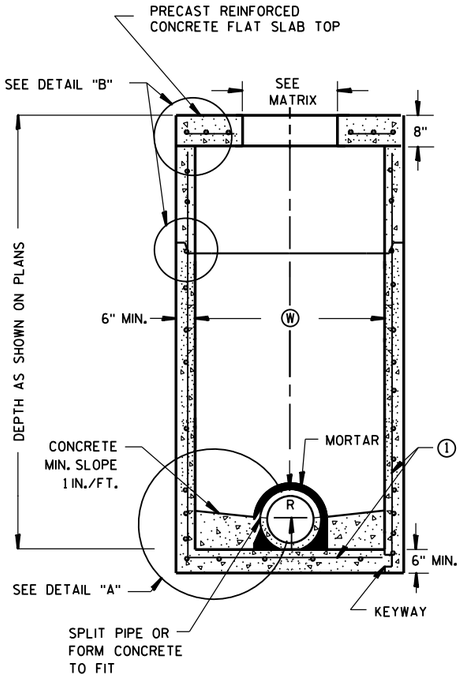


TOP WITH TONGUE AND GROOVE JOINT

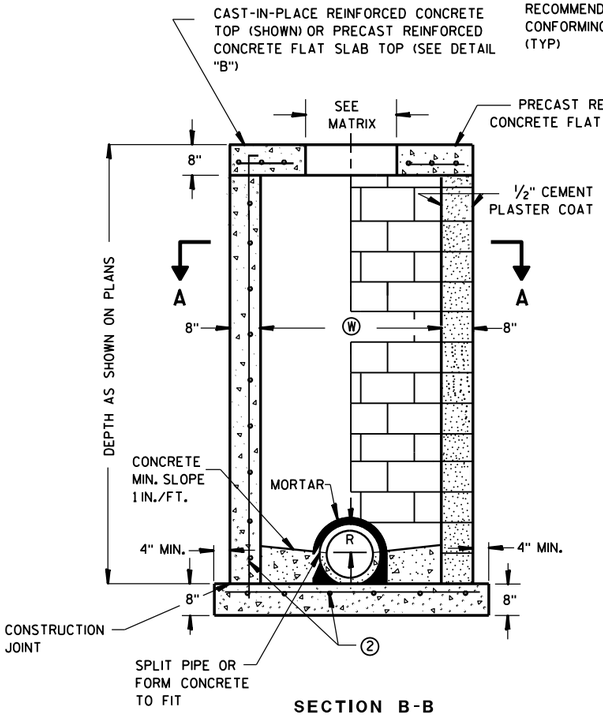


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

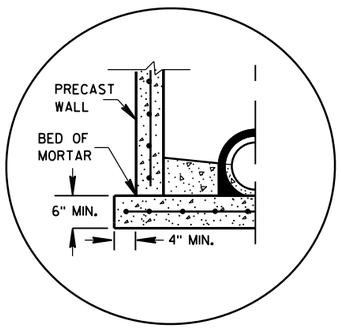


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

SECTION B-B

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



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "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.

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 FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

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 INCH 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 WIDTH.

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 ASTM C 913.

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.

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

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

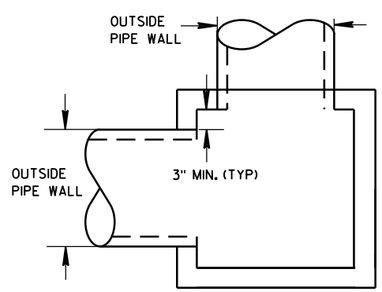
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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	
	WIDTH Ⓦ (IN)	LENGTH Ⓛ (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



DETAIL "C"

SQUARE MANHOLES W/ FLAT TOP

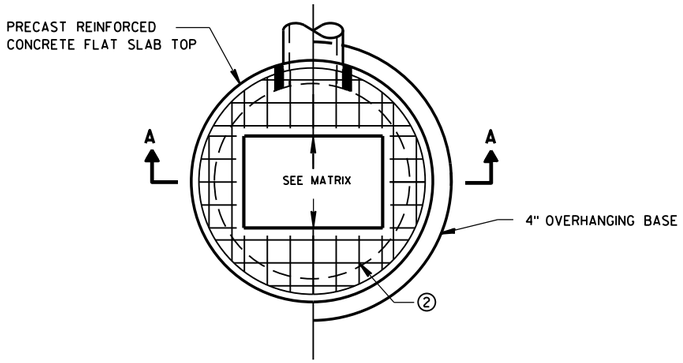
MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT

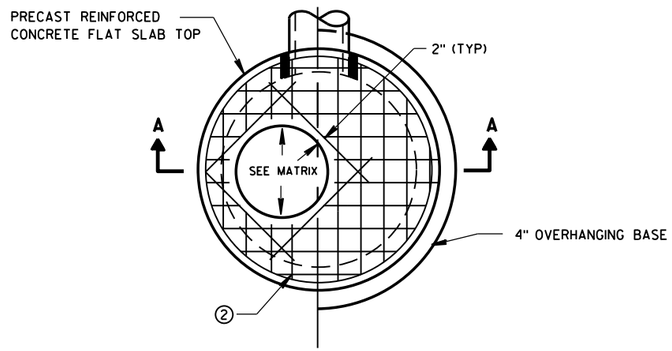
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

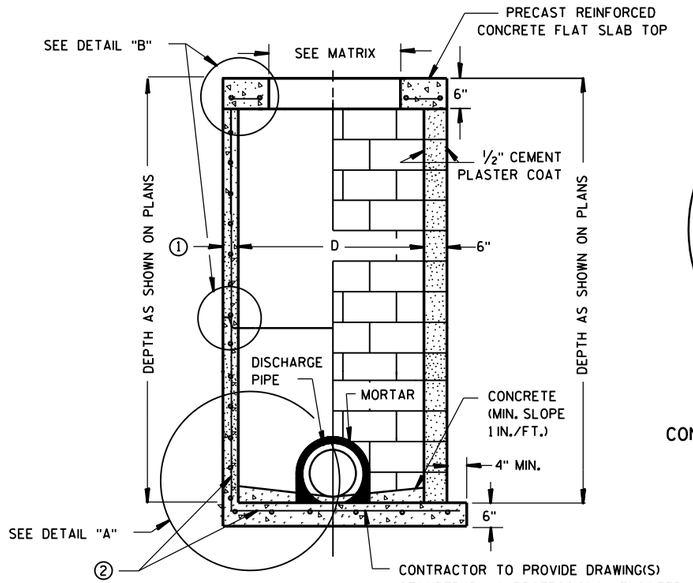
6
S.D.D. 8 B 10-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

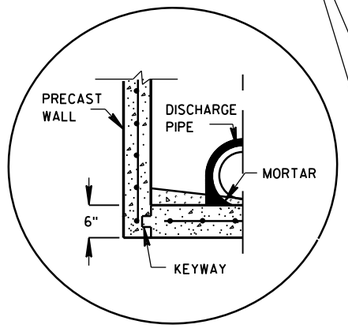


SECTION A-A

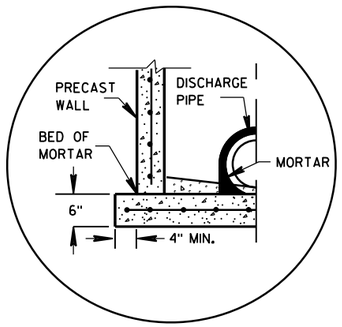
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

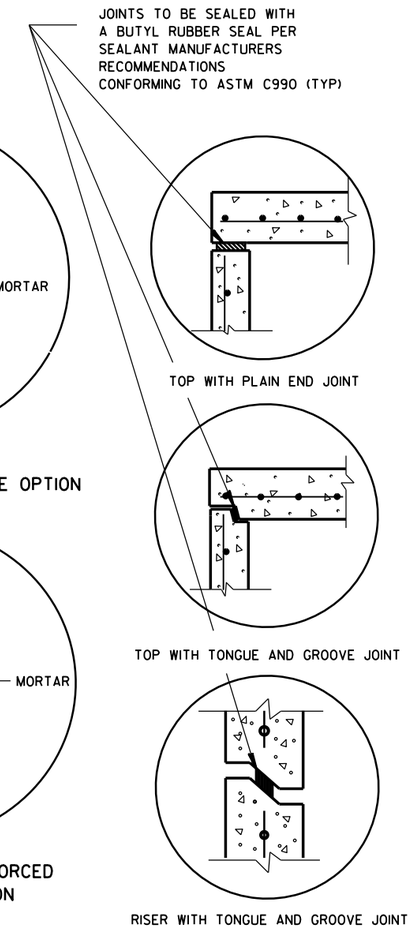


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "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.

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 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.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

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.

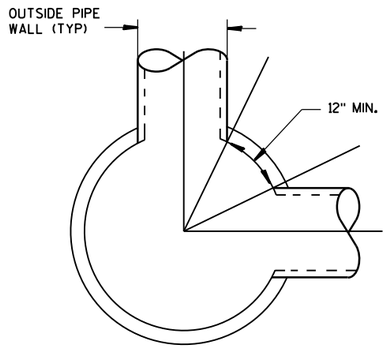
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

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

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

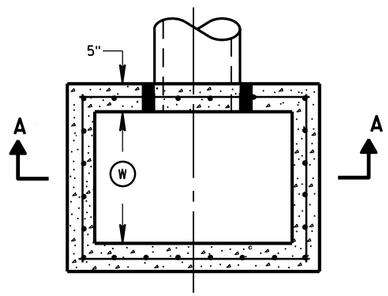
APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

6

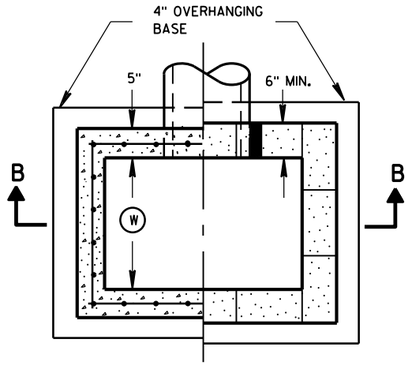
S.D.D. 8 C 6-2

6

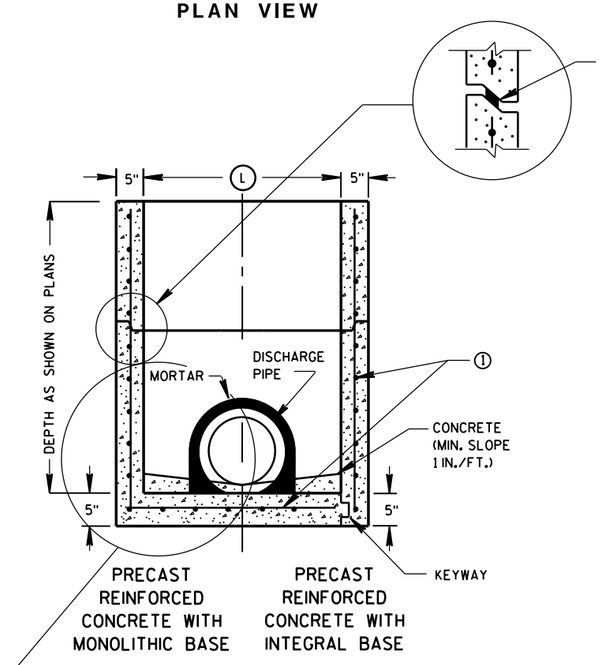
S.D.D. 8 C 6-2



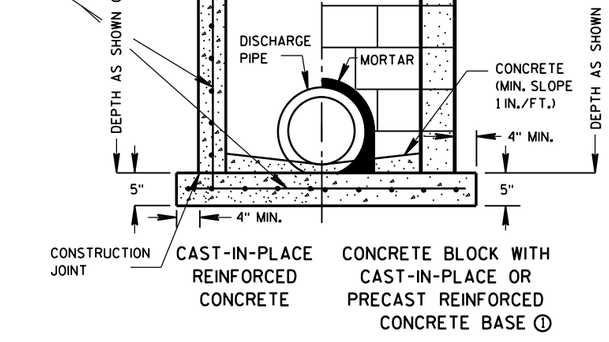
PLAN VIEW



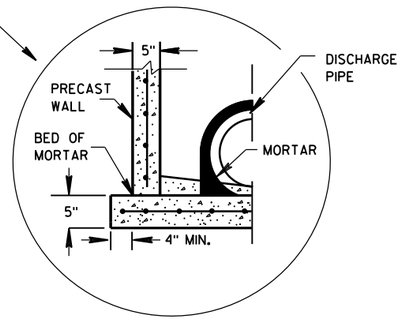
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

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

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES 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.

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.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND 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.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH 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.

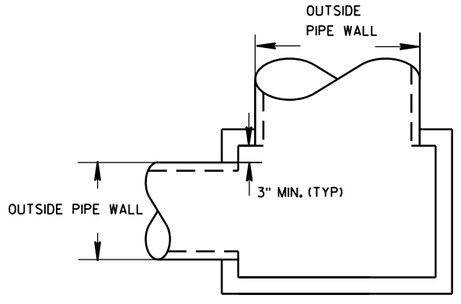
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



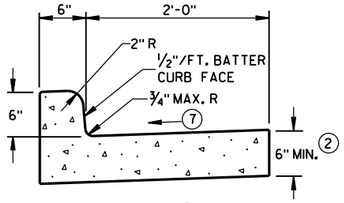
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

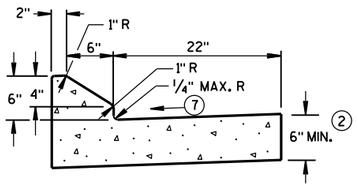
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

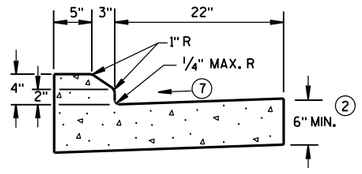
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



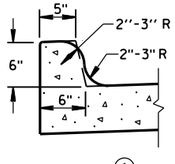
TYPES A (1) & D



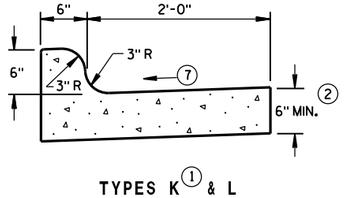
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

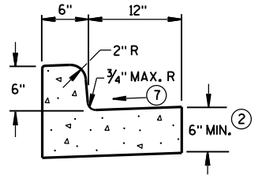


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



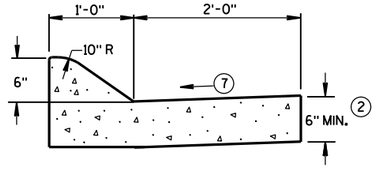
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

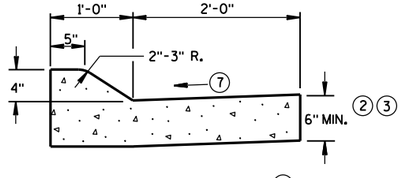


TYPES A (1) & D

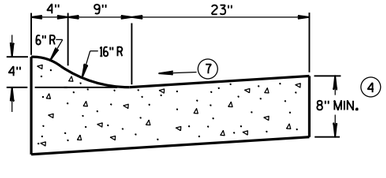
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

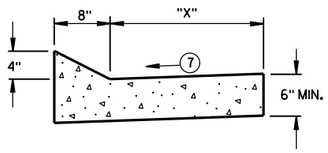


4" SLOPED CURB TYPES A (1) & D



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.

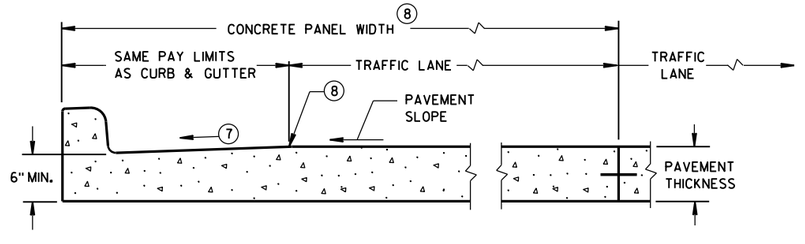
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(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.

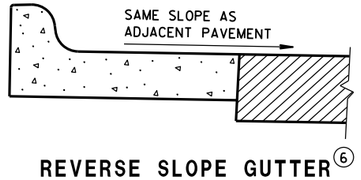
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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

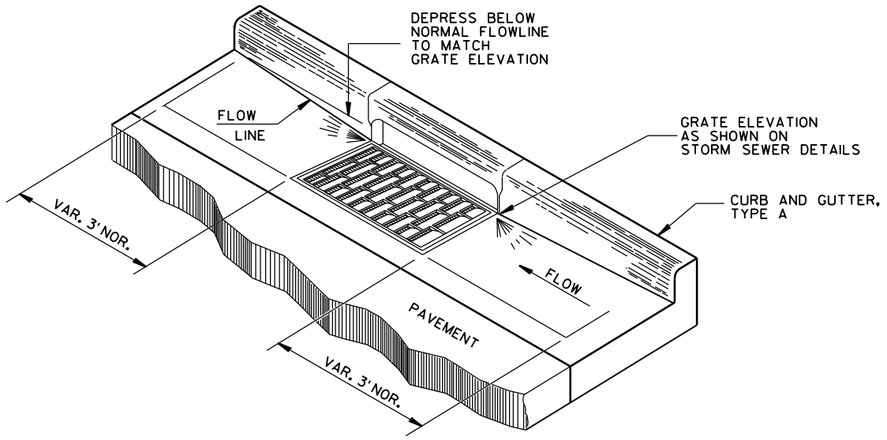
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

S.D.D. 8 D 1-20a

6

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.

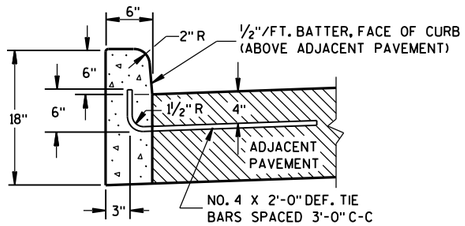
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

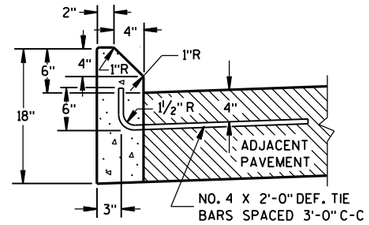
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

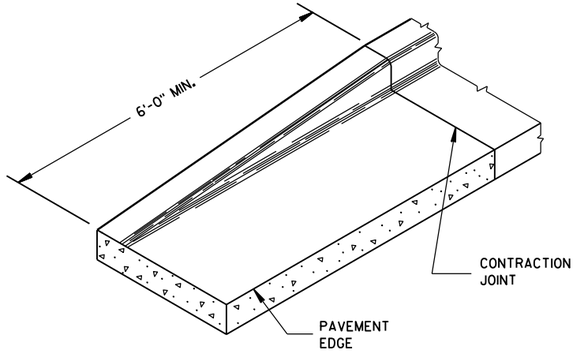


TYPES A(1) & D

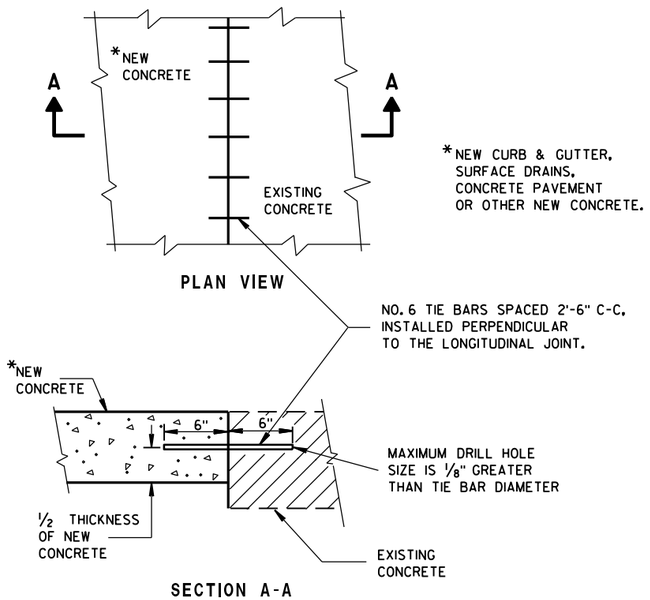


TYPES G(1) & J

CONCRETE CURB



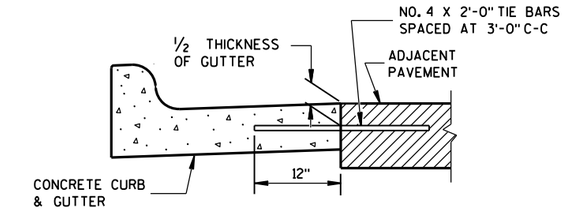
END SECTION CURB & GUTTER



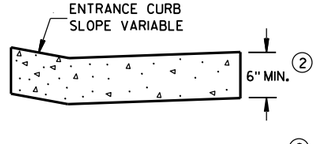
PLAN VIEW

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

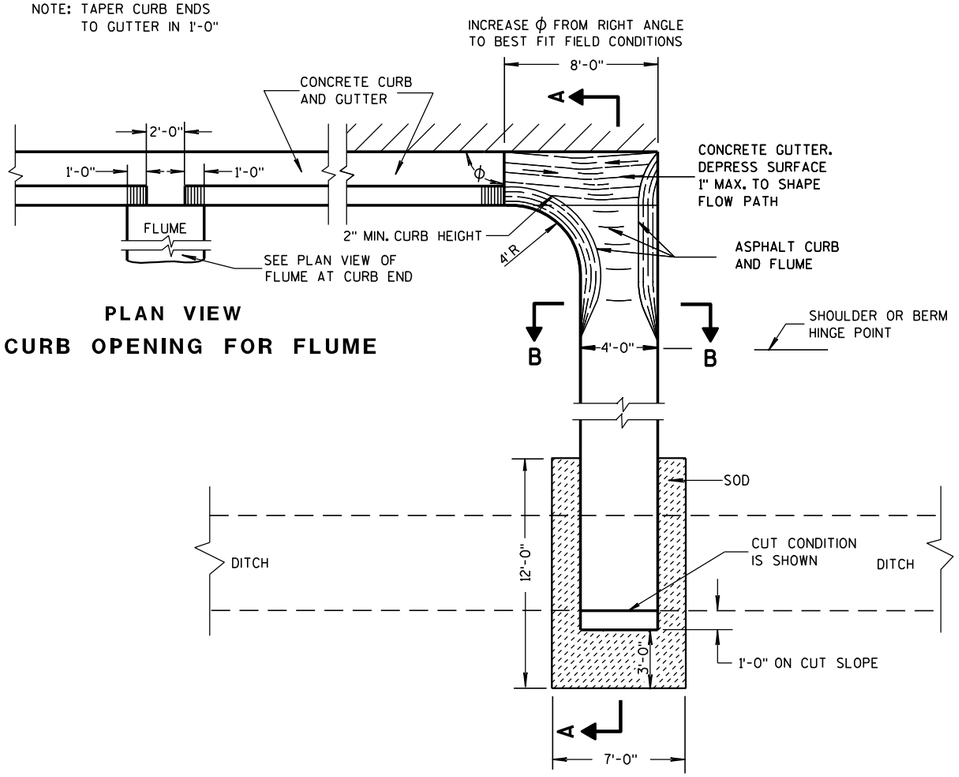
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

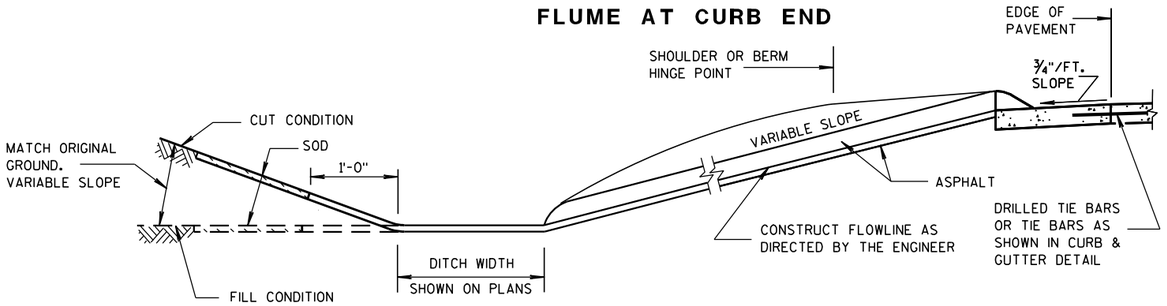
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

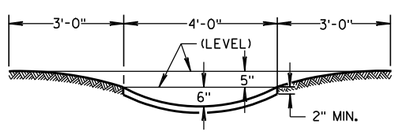


PLAN VIEW
CURB OPENING FOR FLUME

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.

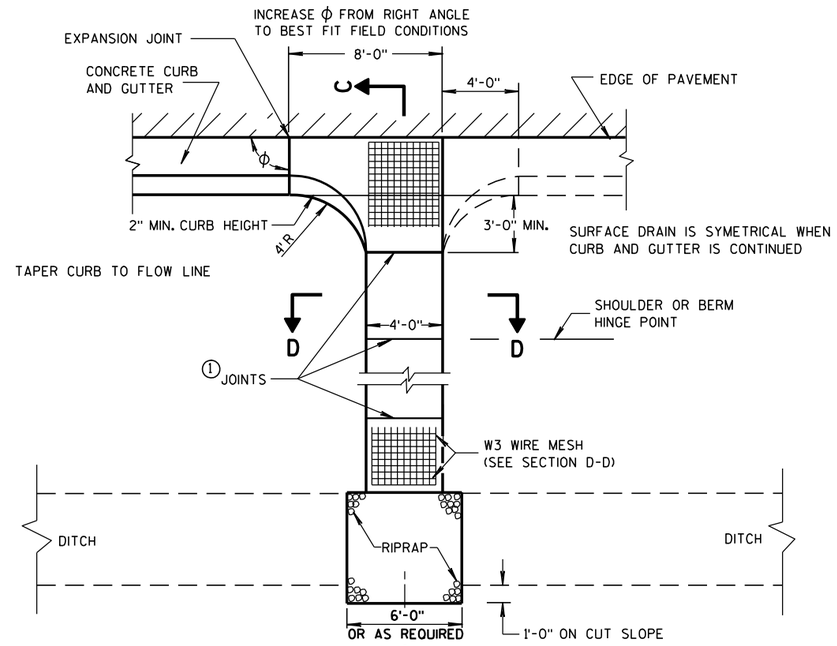
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

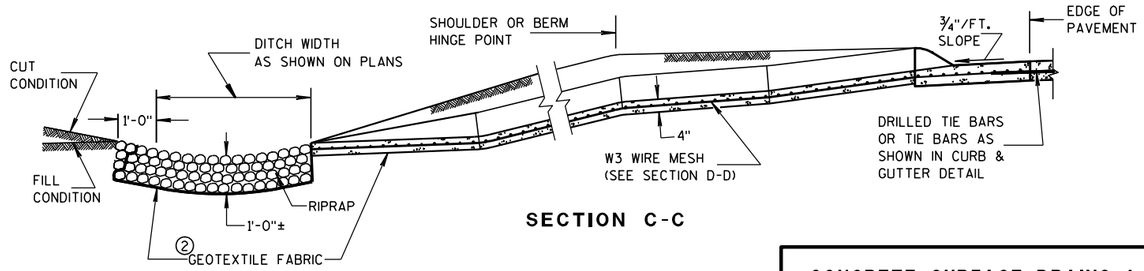
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

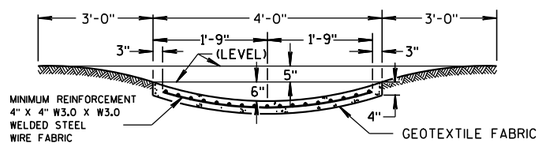
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

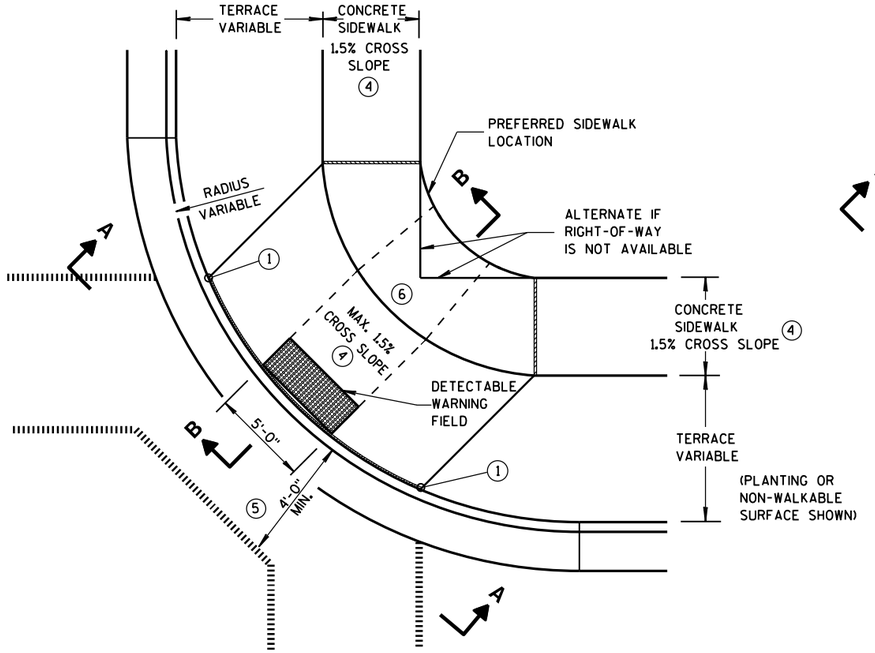
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

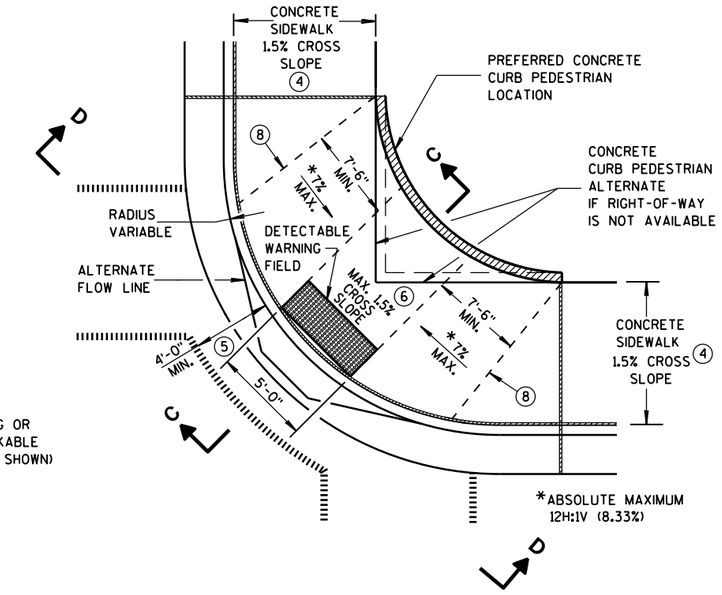
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

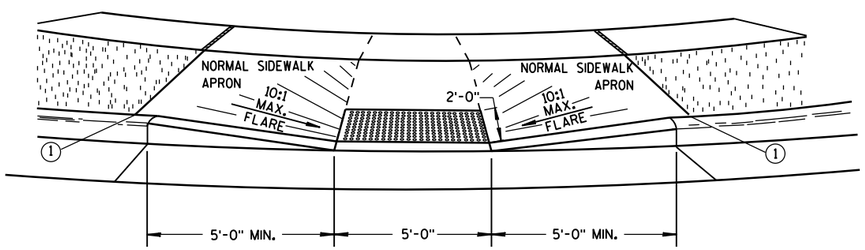
(CENTER OF CORNER RADIUS)



PLAN VIEW

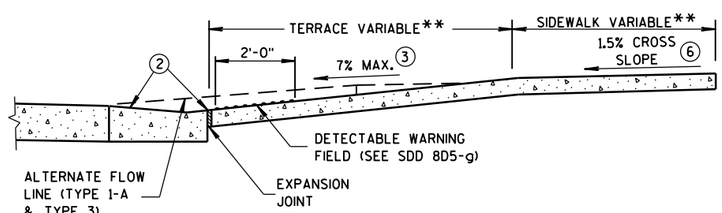
TYPE 1-A RAMP

(NO TERRACE)

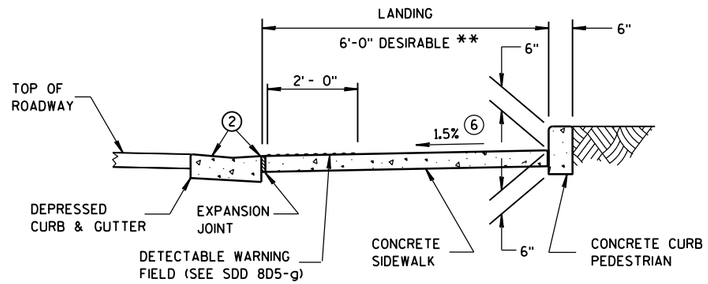


VIEW A-A

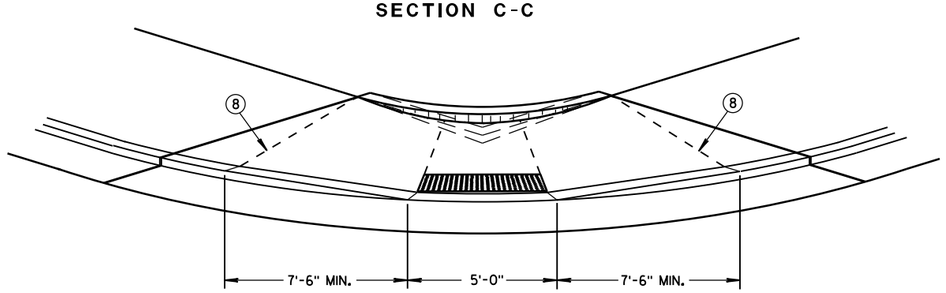
** WIDTH SHOWN ELSEWHERE IN THE PLANS



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

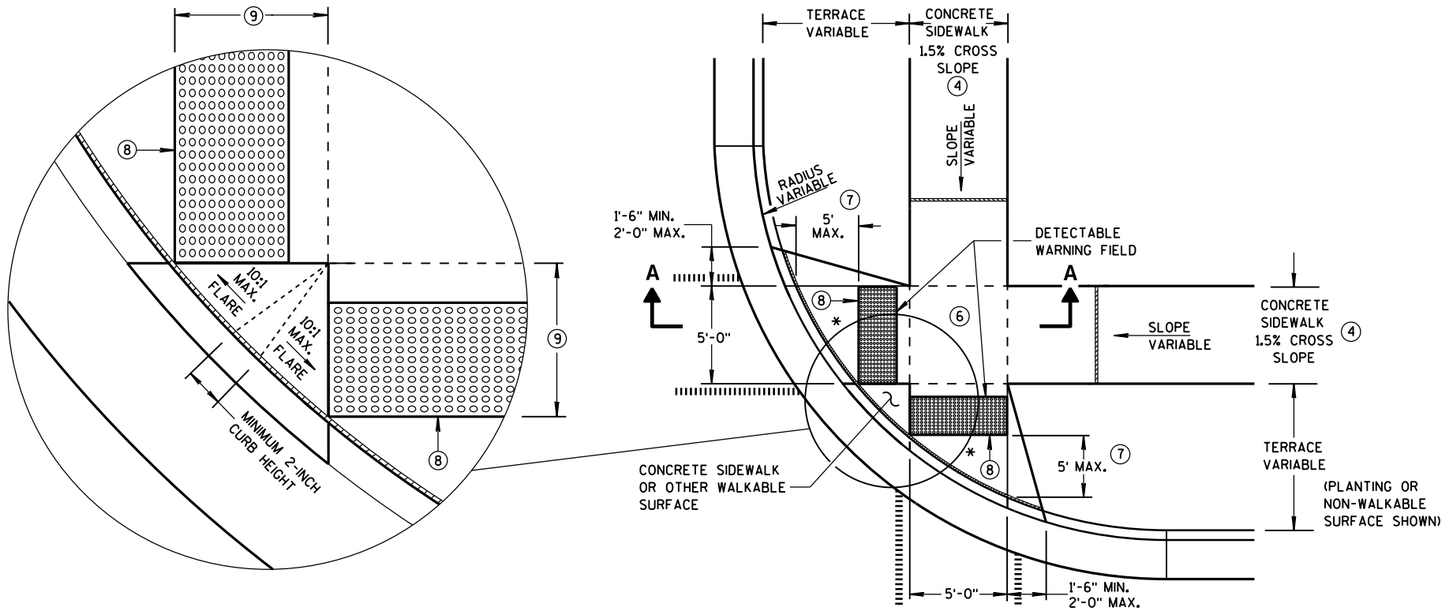
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

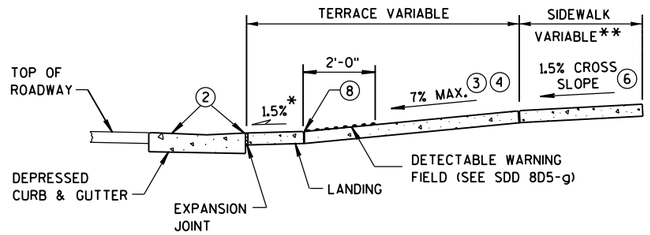
6

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



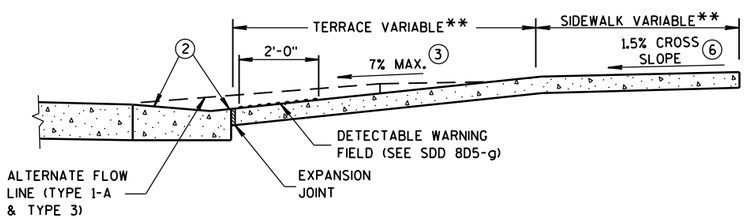
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

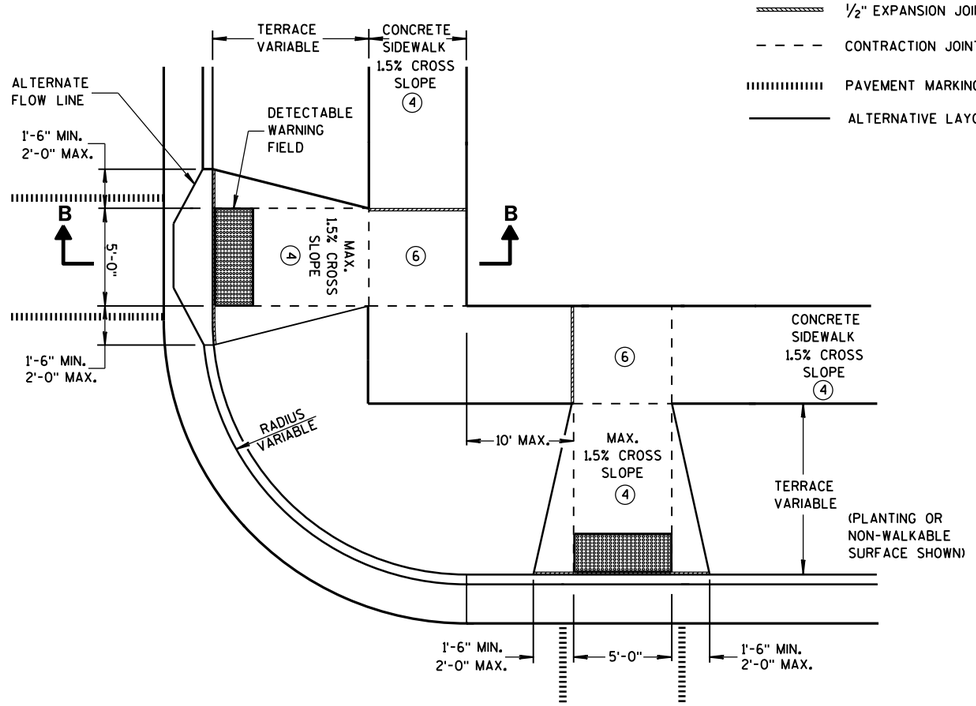


SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

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

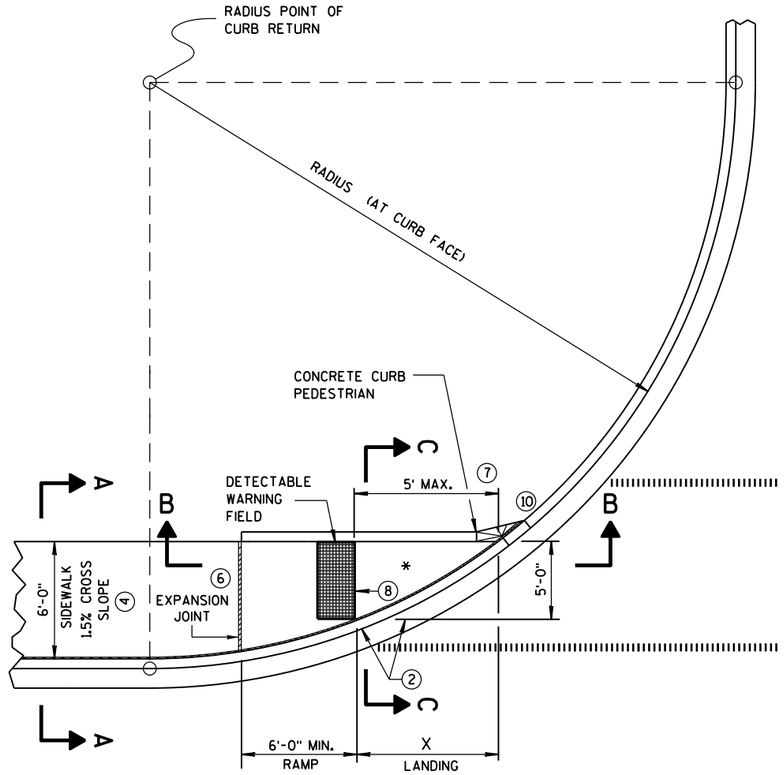
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

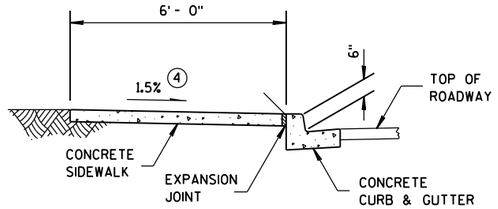
S.D.D. 8 D 5-19b



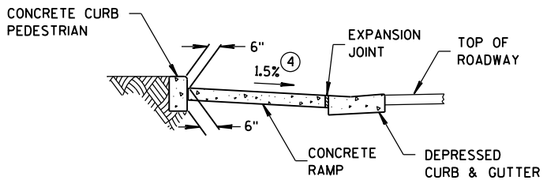
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

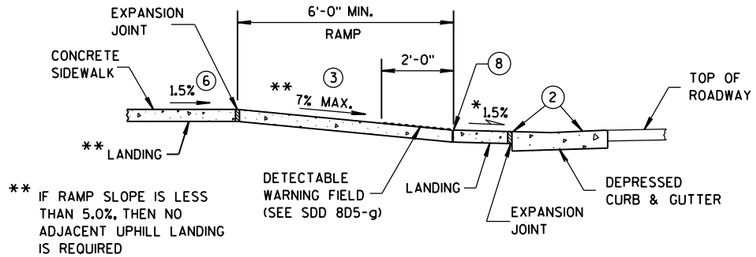
INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A



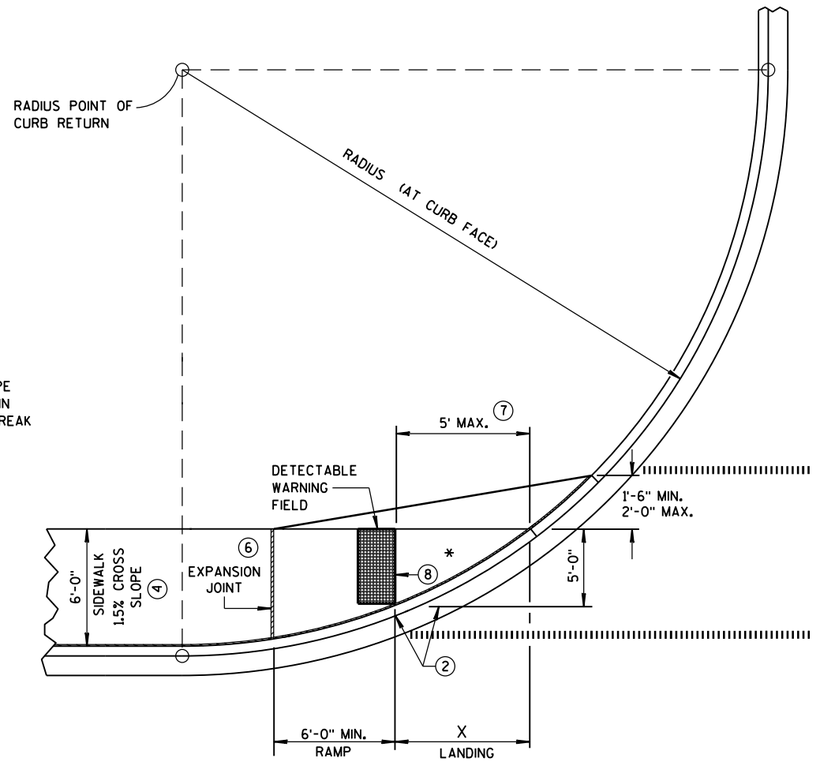
SECTION C-C FOR TYPE 4A



** 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

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.

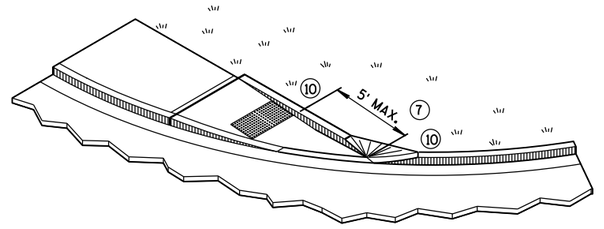
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

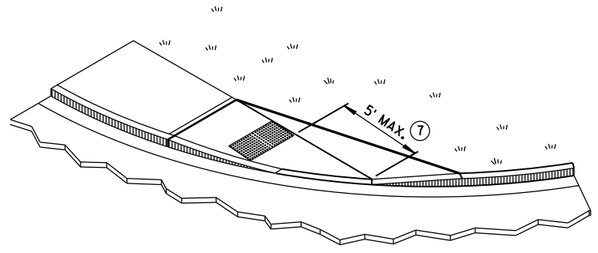
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(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



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

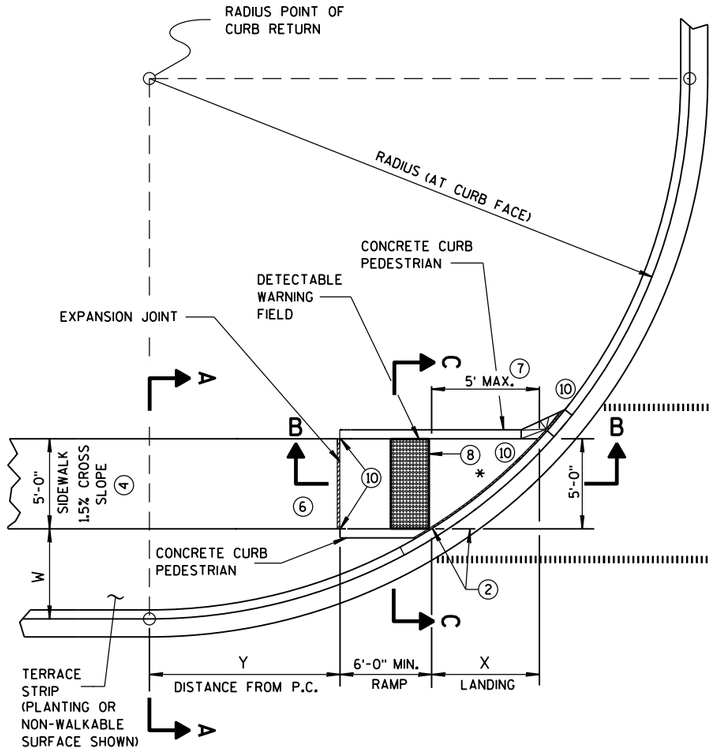
CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

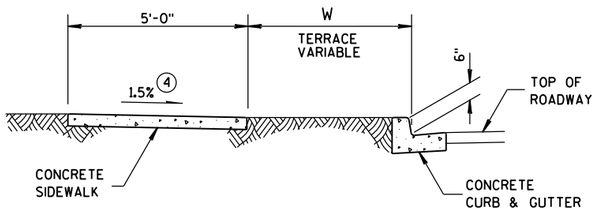
CURB RAMPS TYPES 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

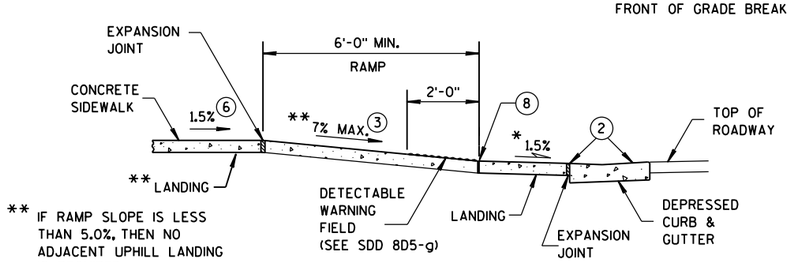
6
S.D.D. 8 D 5-19c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



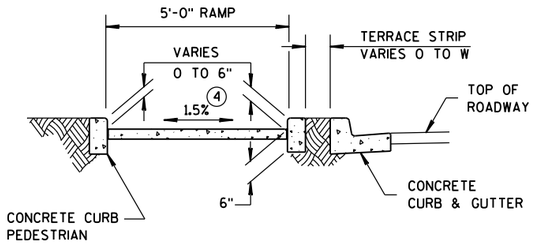
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** 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.

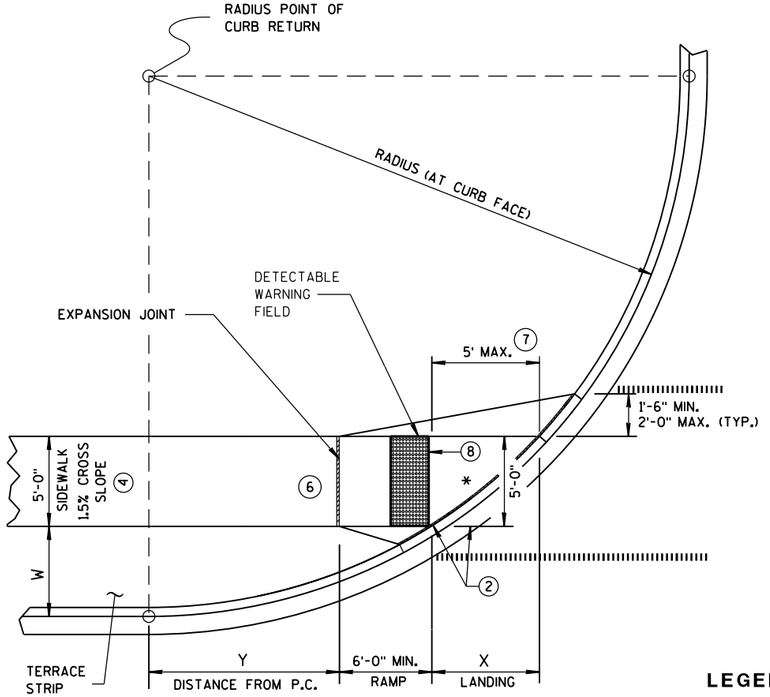
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

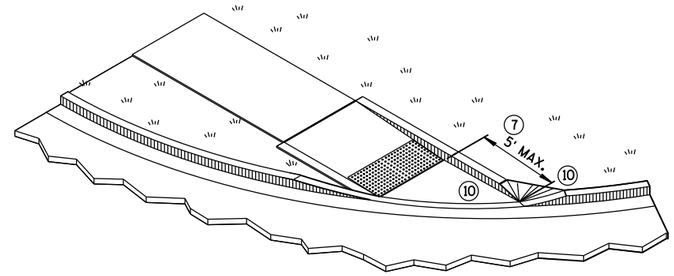
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

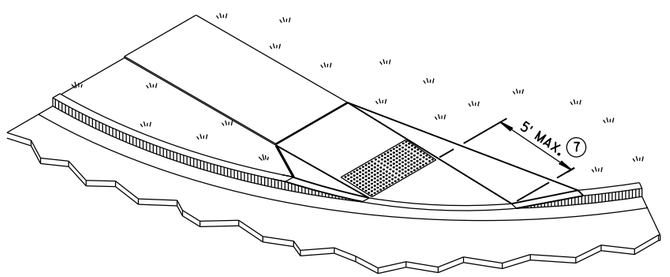
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



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

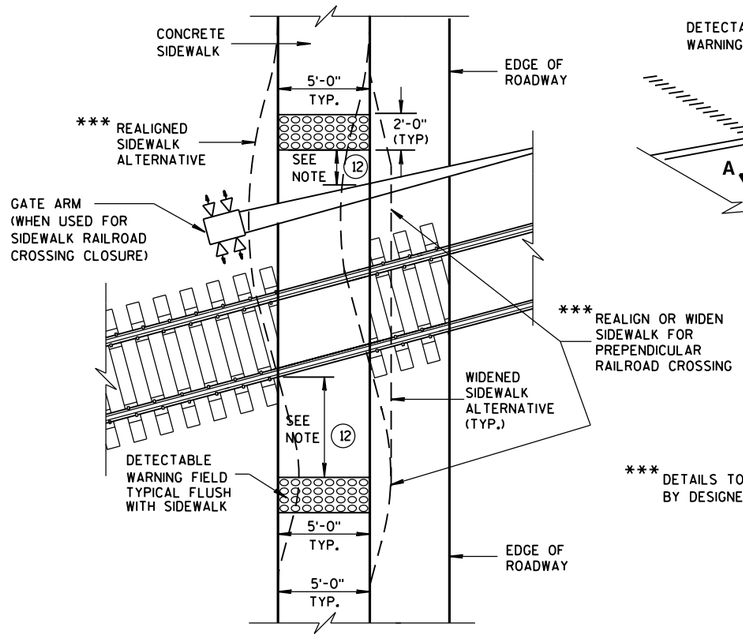
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

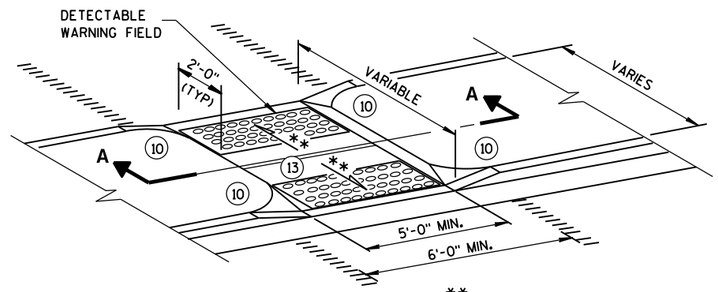
6

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



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 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.

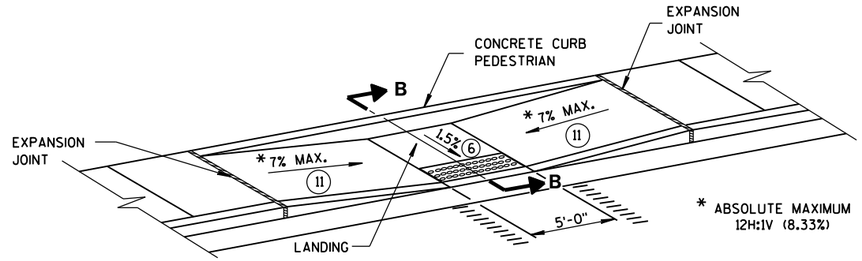
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

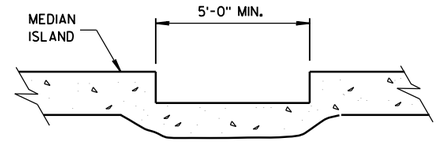
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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.

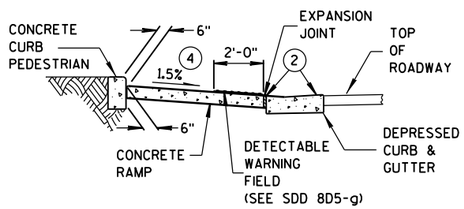
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

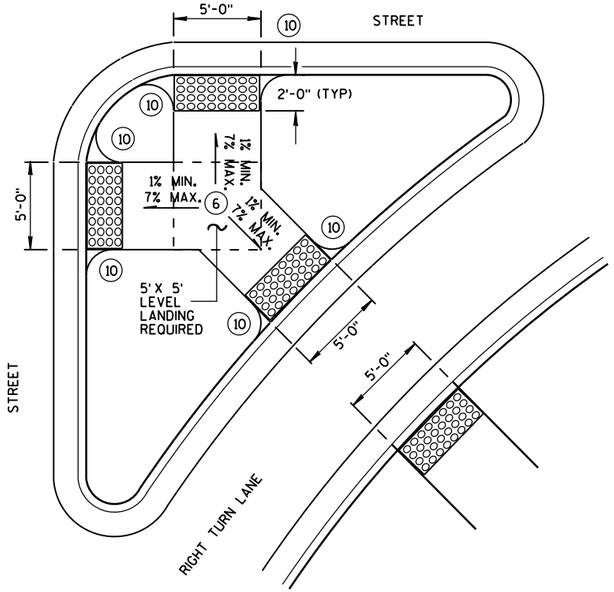


SECTION A-A

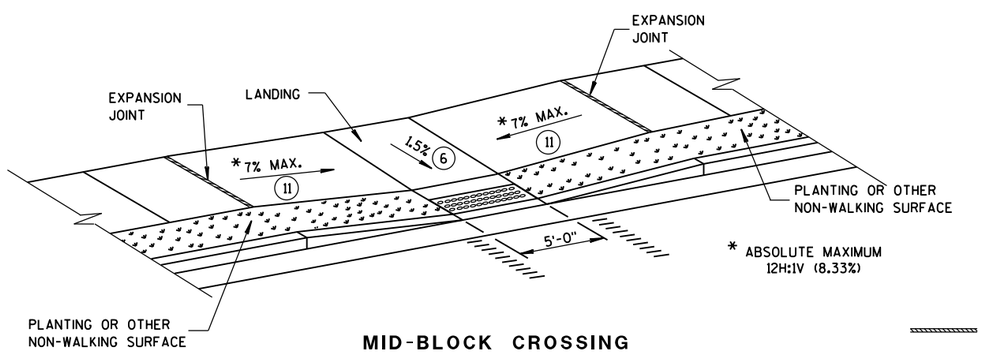


SECTION B-B

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

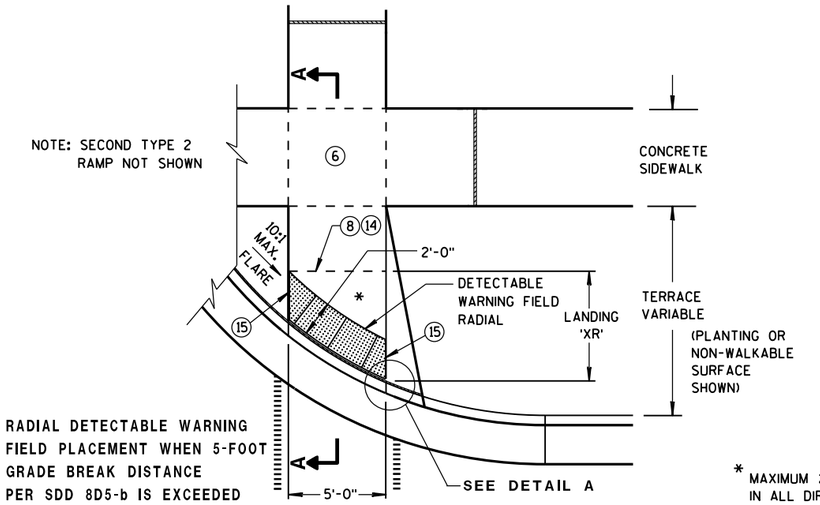
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-19e

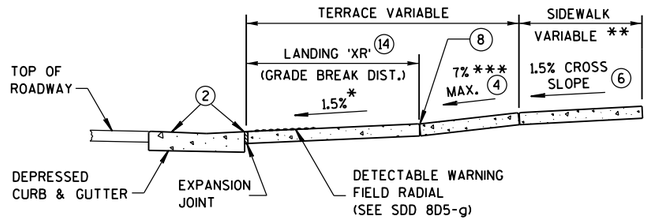


TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

LEGEND

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



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

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.

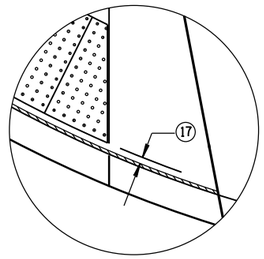
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

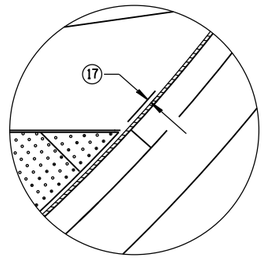
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(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.

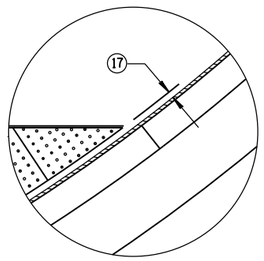
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



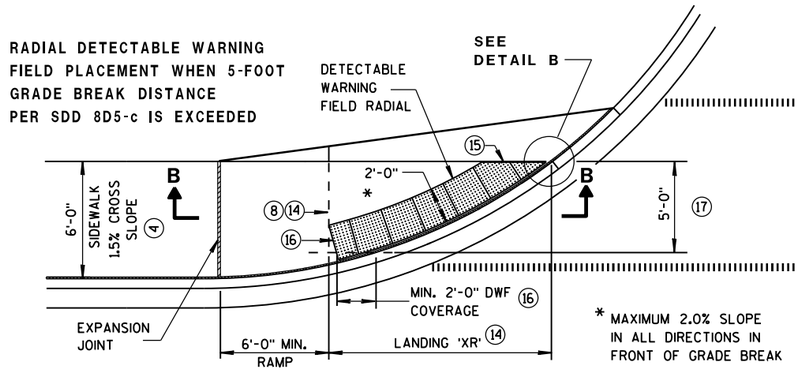
DETAIL A



DETAIL C

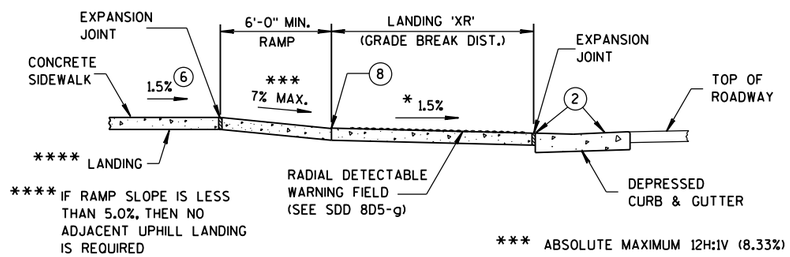


DETAIL B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

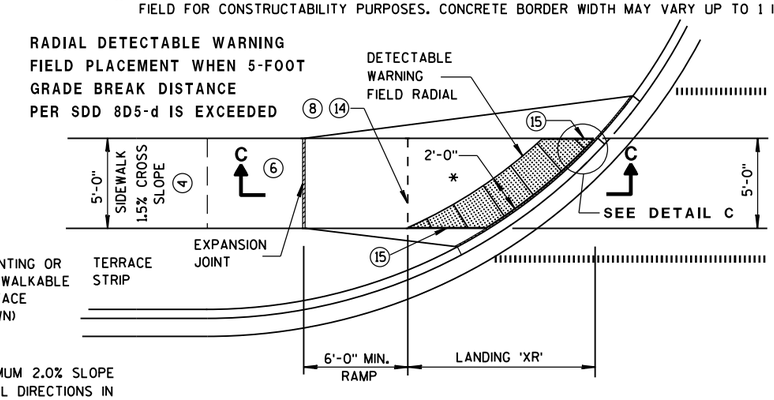
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

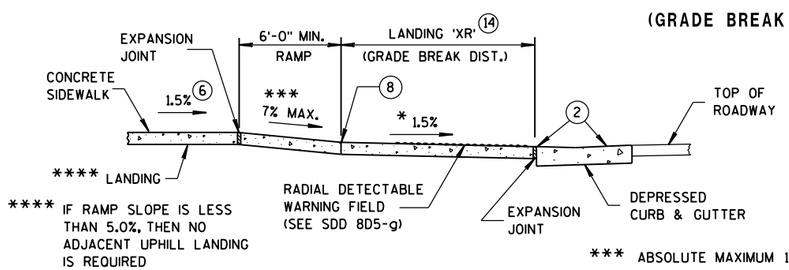
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

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 134

6

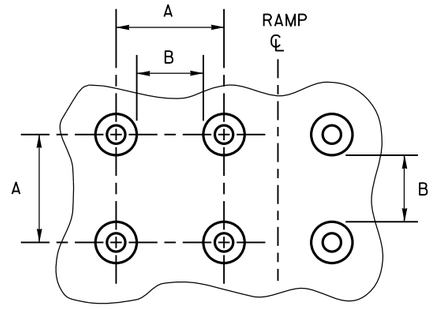
S.D.D. 8 D 5-19f

6

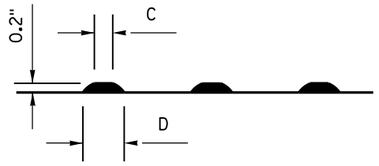
S.D.D. 8 D 5-19f

	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.

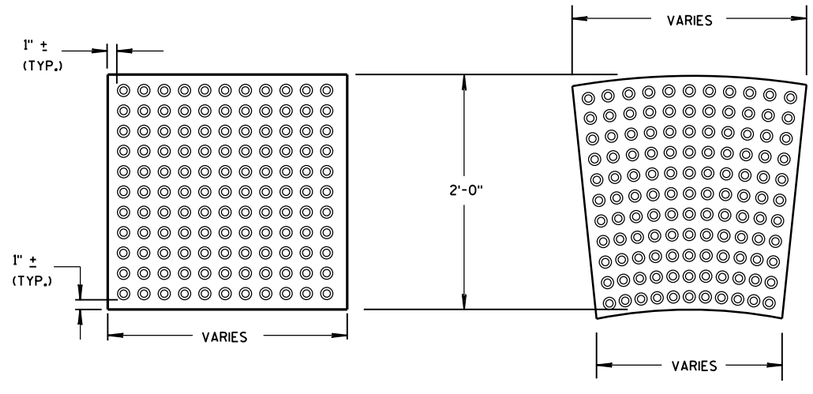
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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.

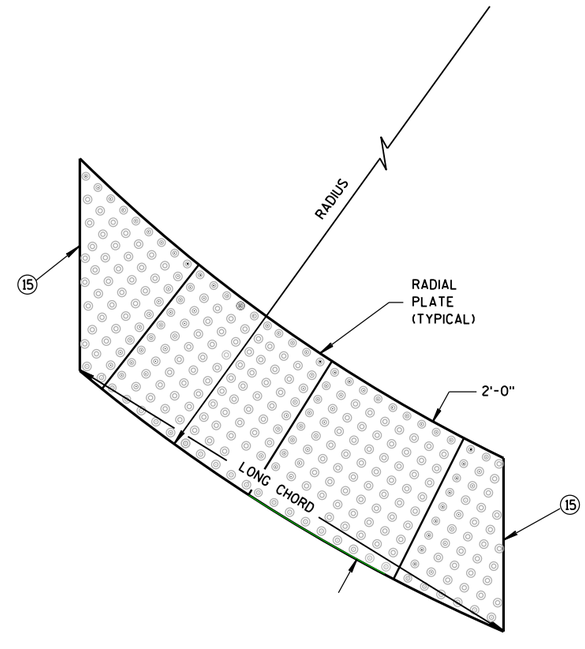


RECTANGULAR PLATES

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

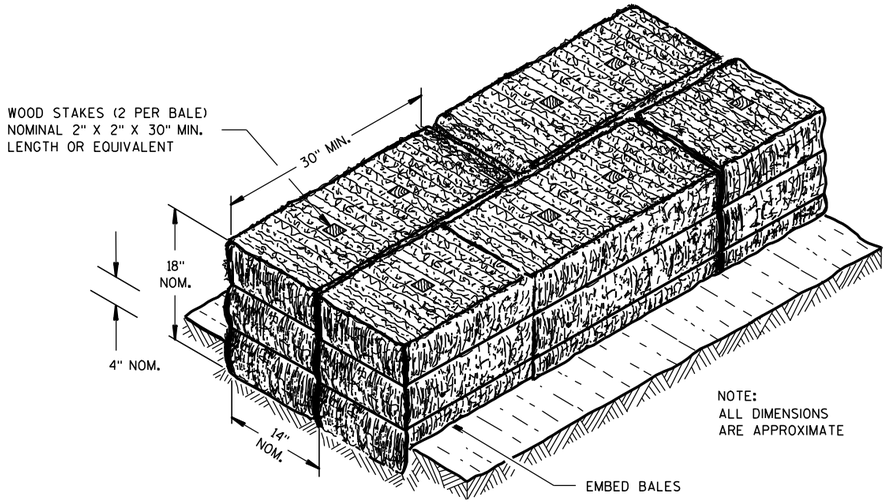
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
ENT
FHWA

6

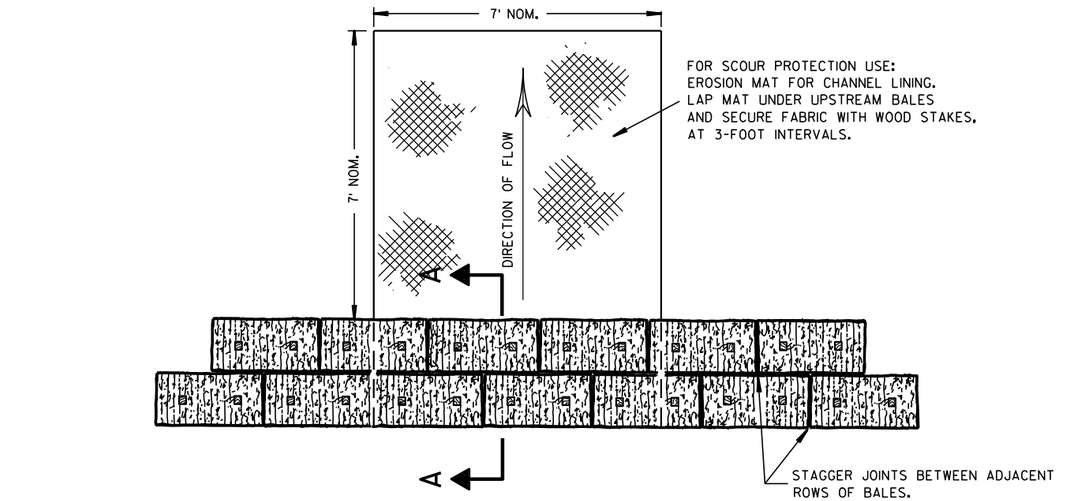
S.D.D. 8 D 5-19g

6

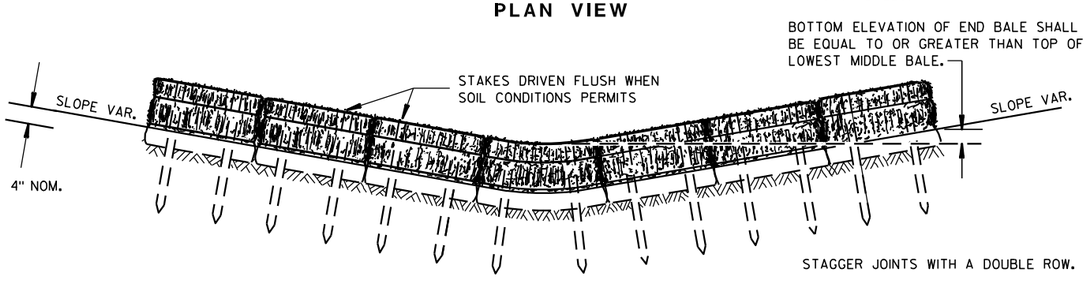
S.D.D. 8 D 5-19g



SECTION A-A



PLAN VIEW



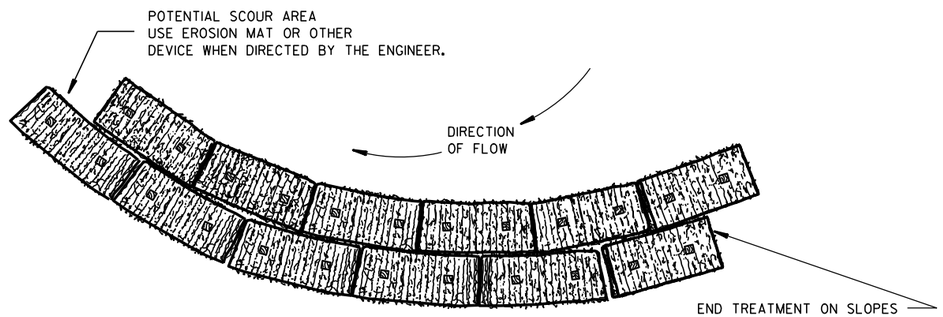
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

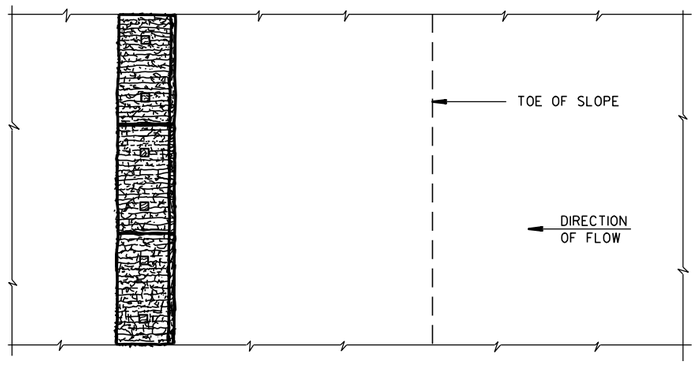
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

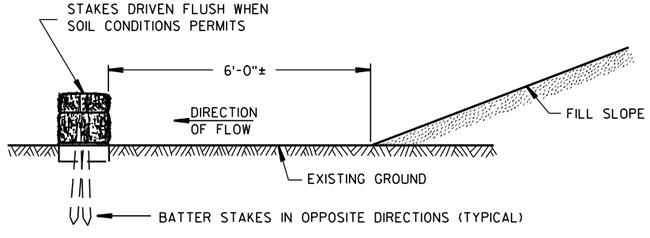


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

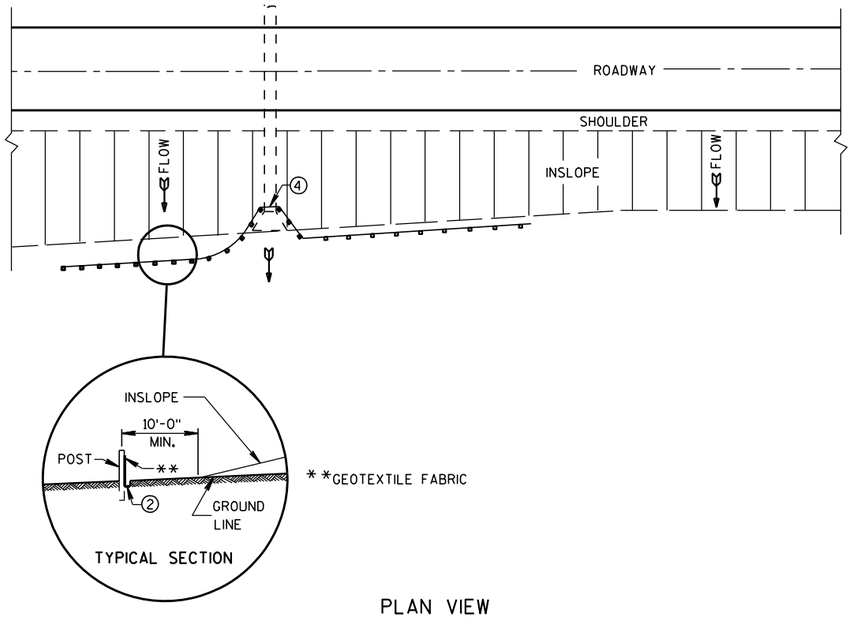
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

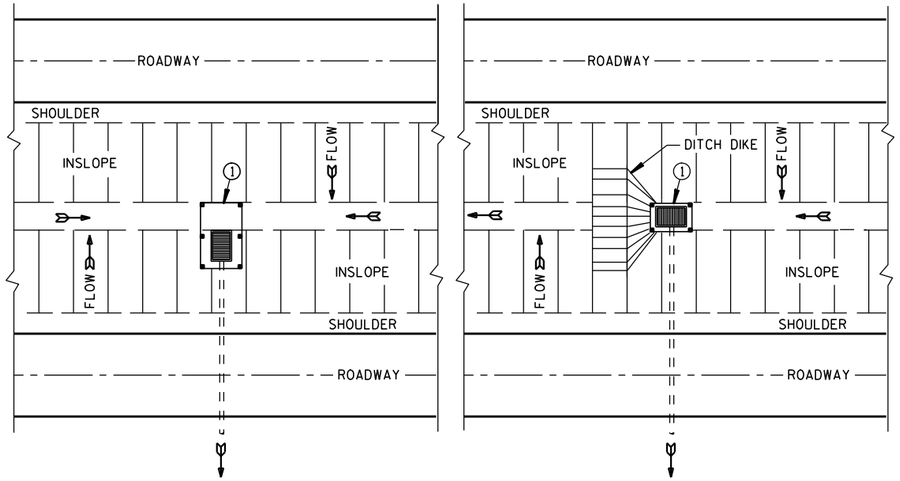
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



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.

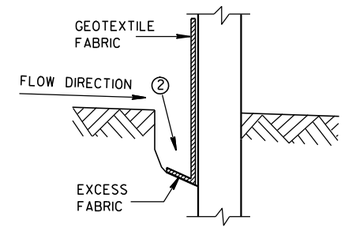
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

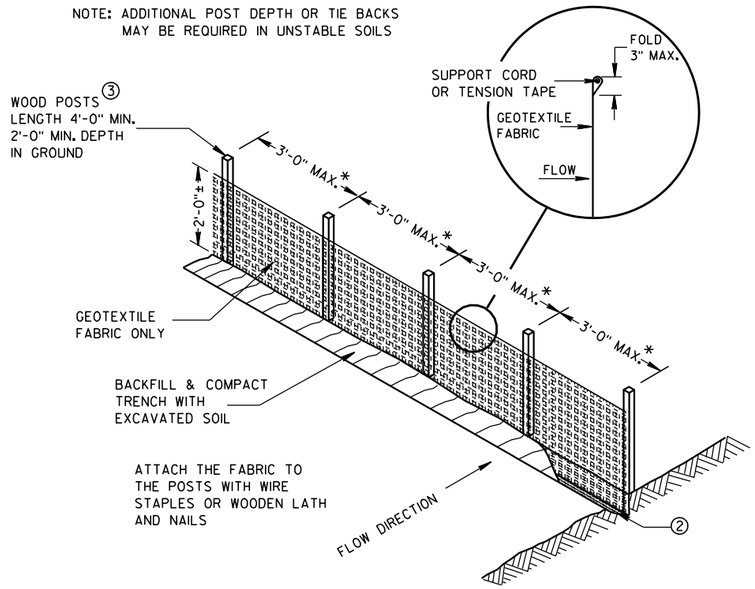
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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

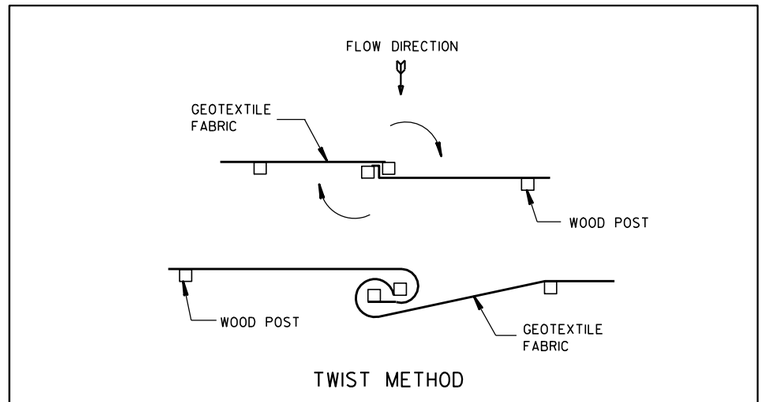
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



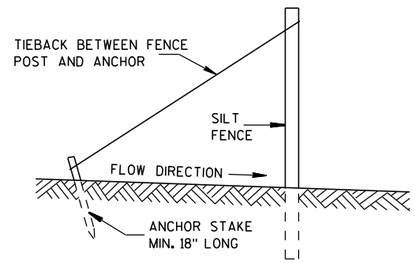
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

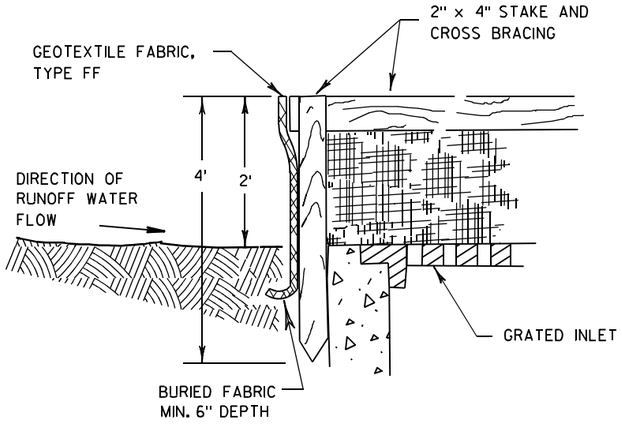
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

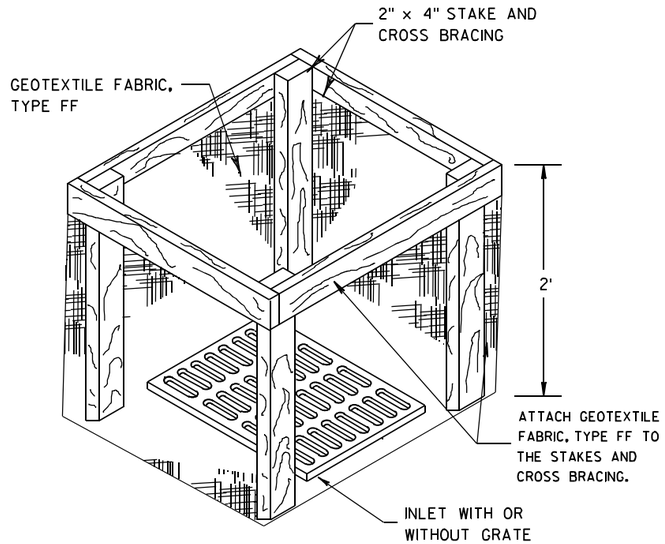
6

S.D.D. 8 E 9-6

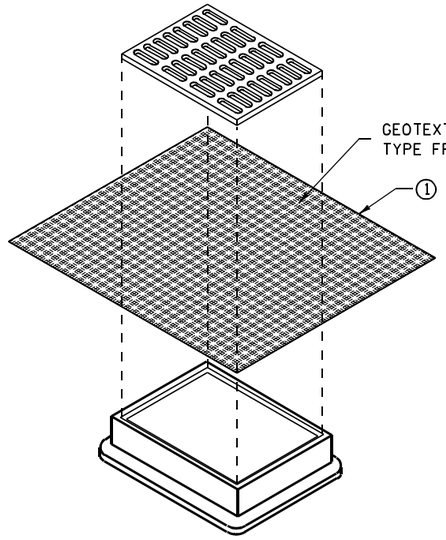
6

S.D.D. 8 E 9-6



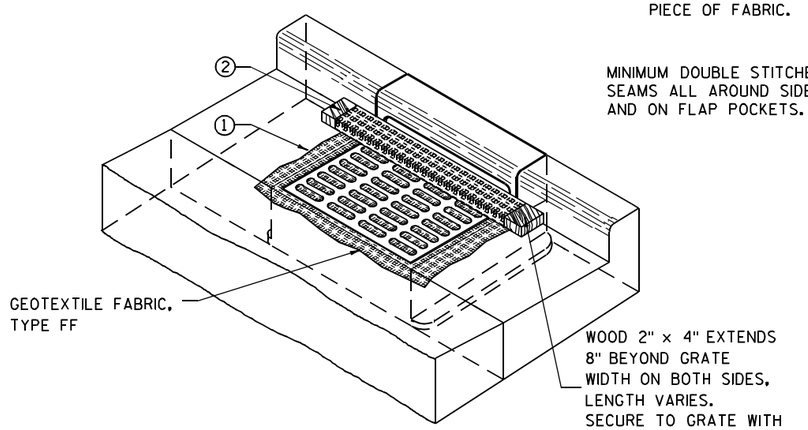


INLET PROTECTION, TYPE A

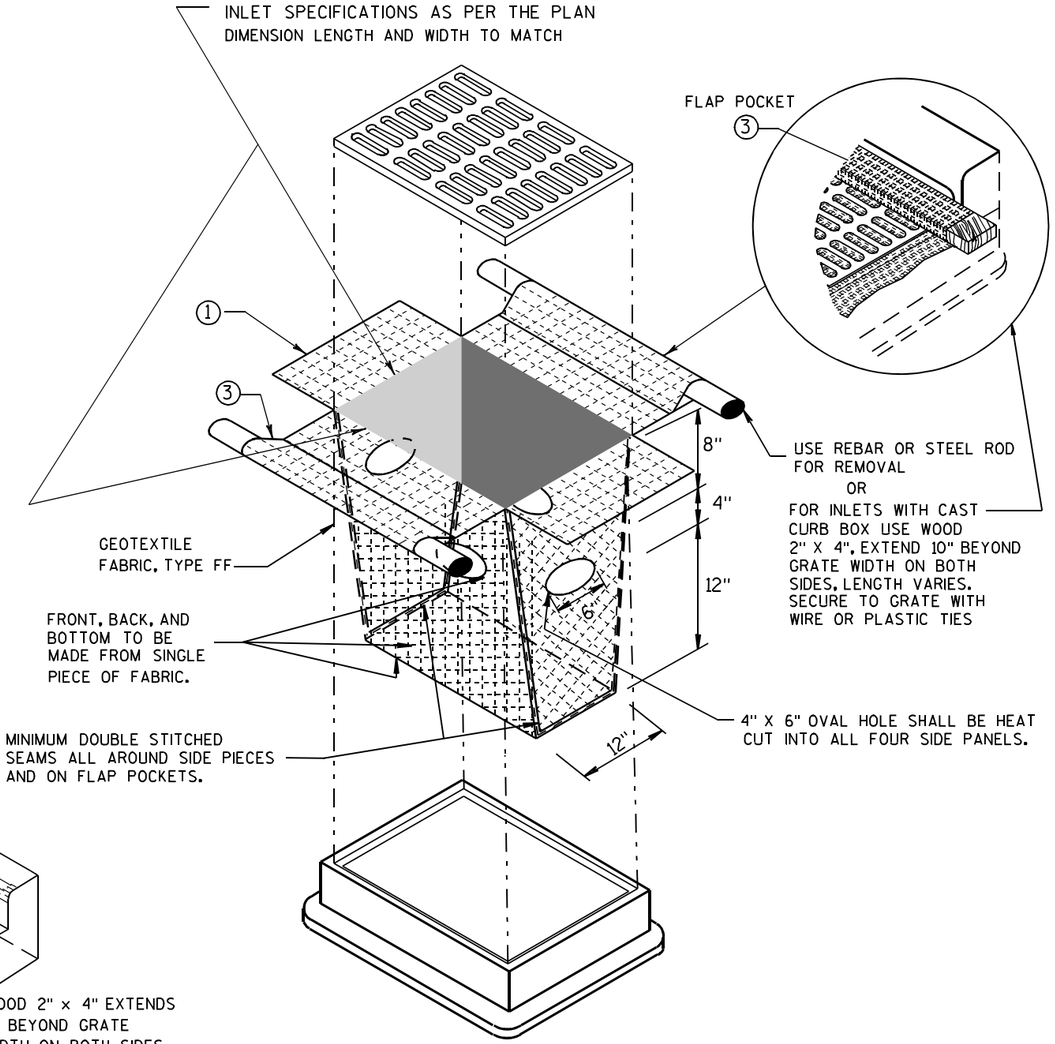


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

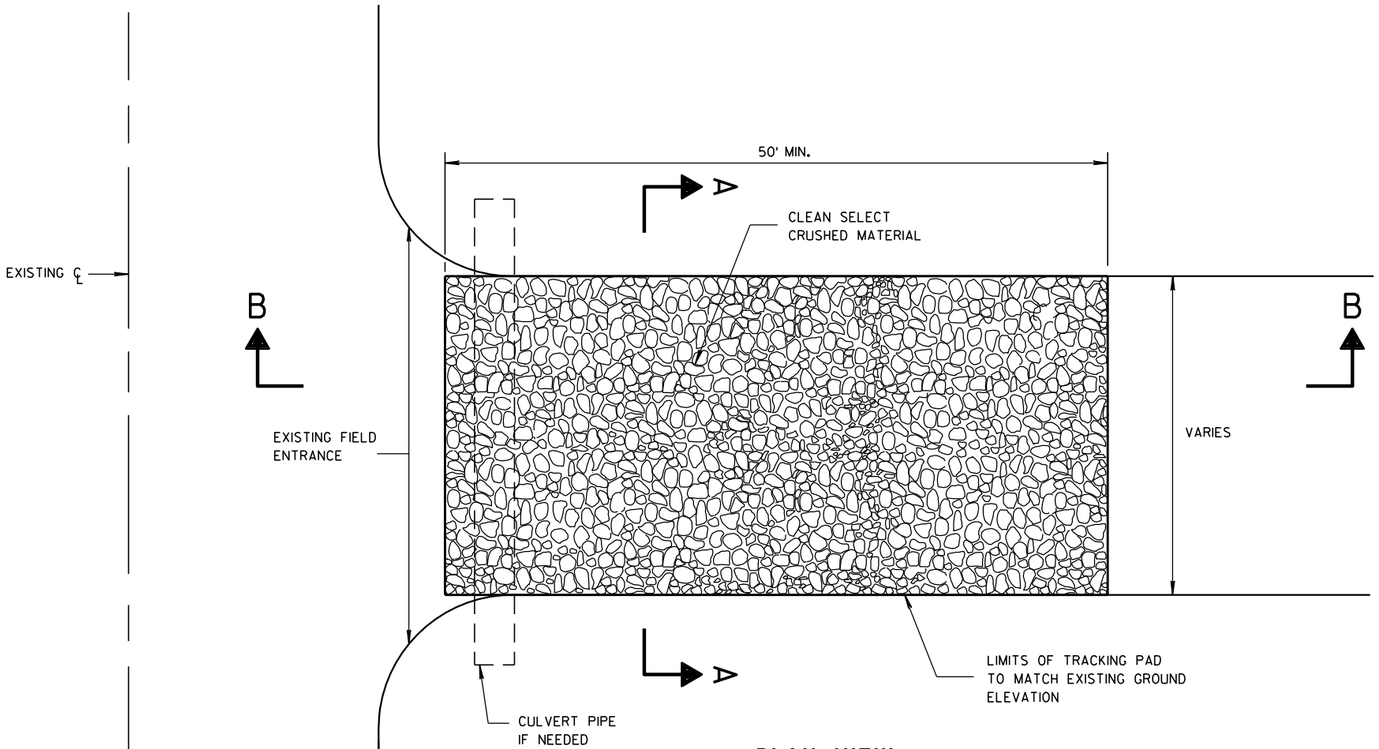
10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

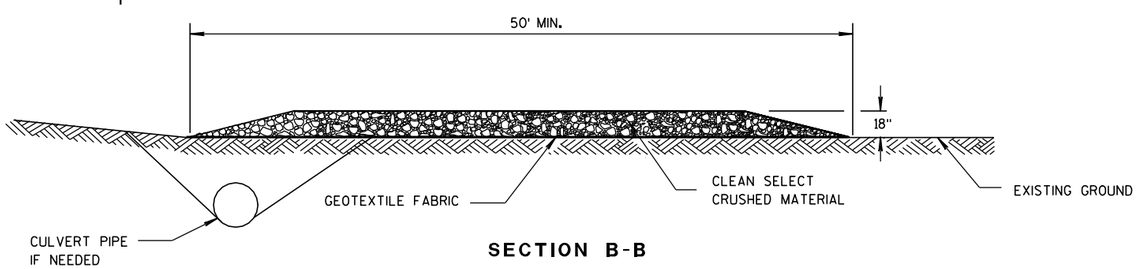
FHWA

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.

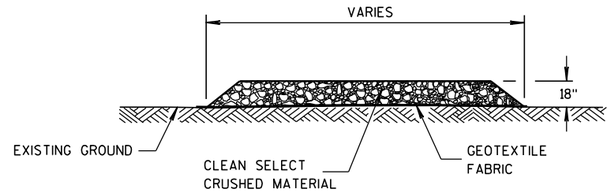
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

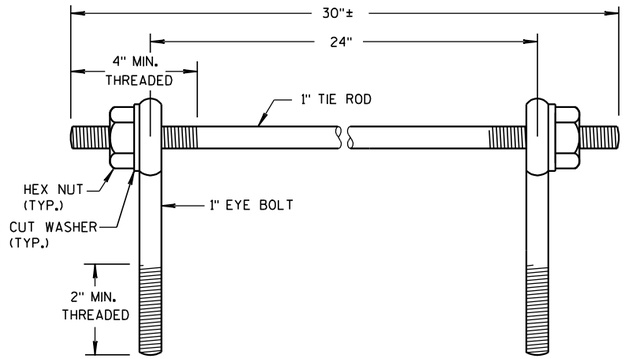
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

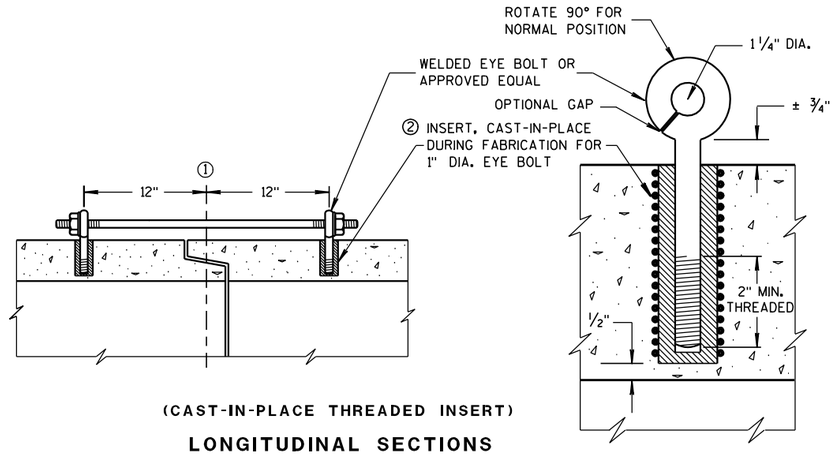
ENT

6

S.D.D. 8 E 14-1



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.

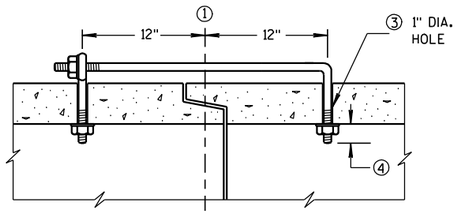
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

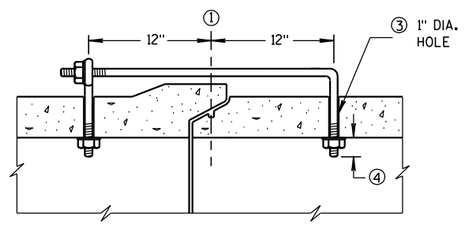
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

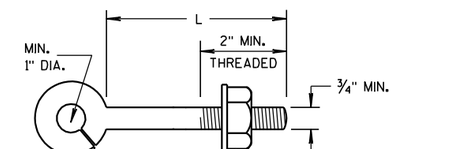


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

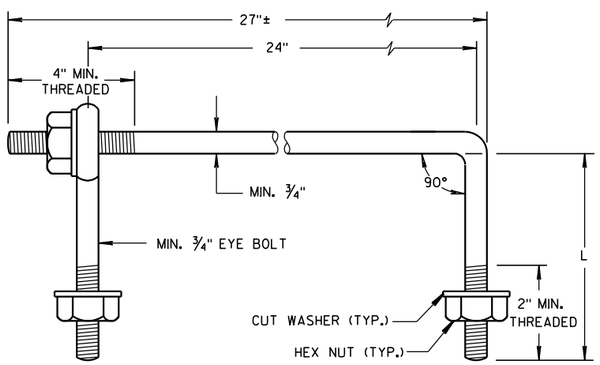
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

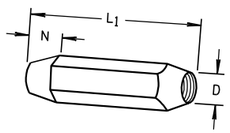
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

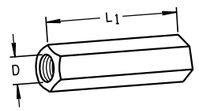
ADJUSTABLE TIE ROD TABLE

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



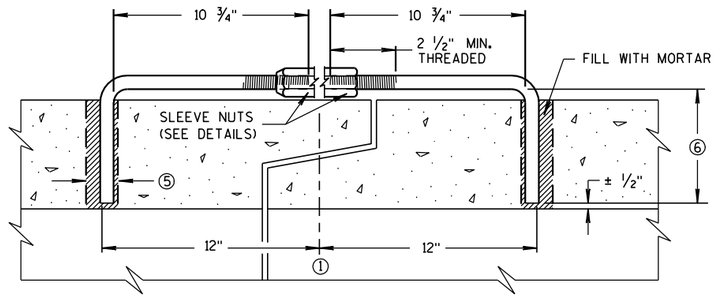
TAPERED



PLAIN

RIGHT AND LEFT THREADS

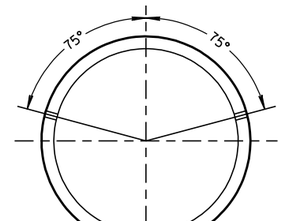
SLEEVE NUTS



LONGITUDINAL SECTION

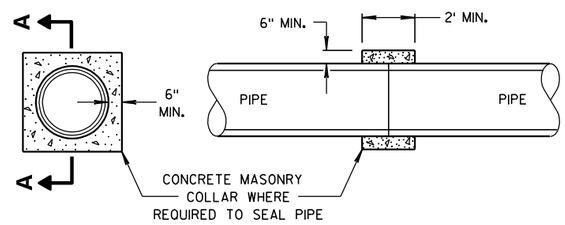
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

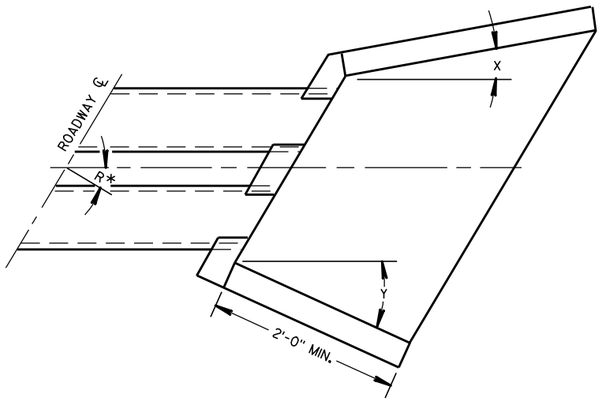
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
140
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

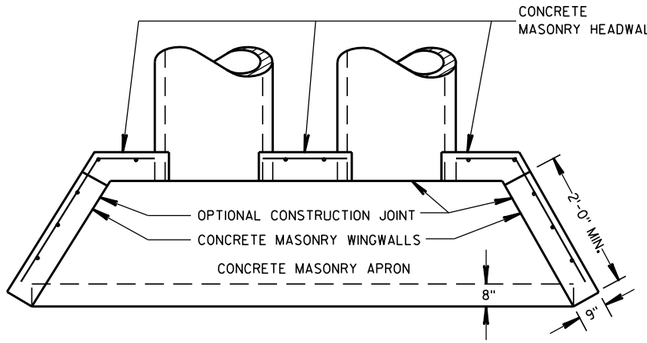
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

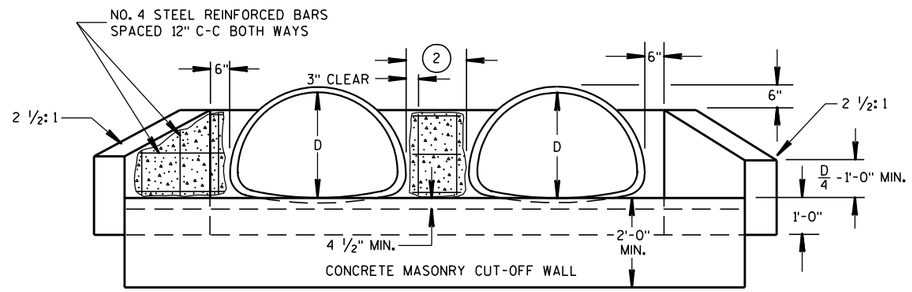
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



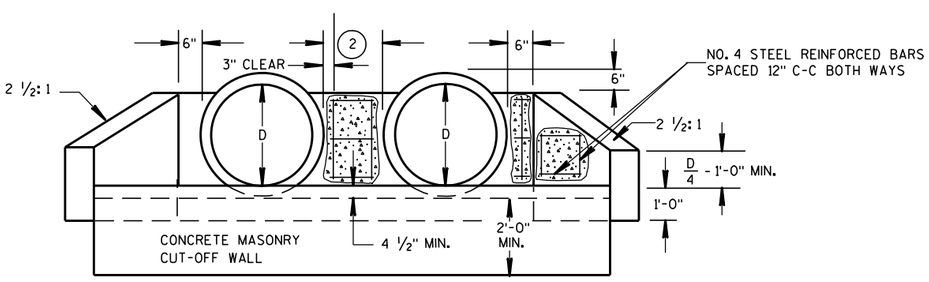
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



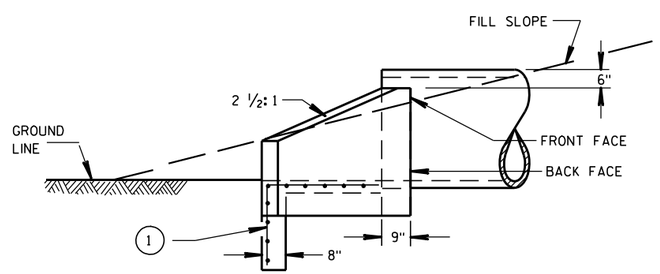
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

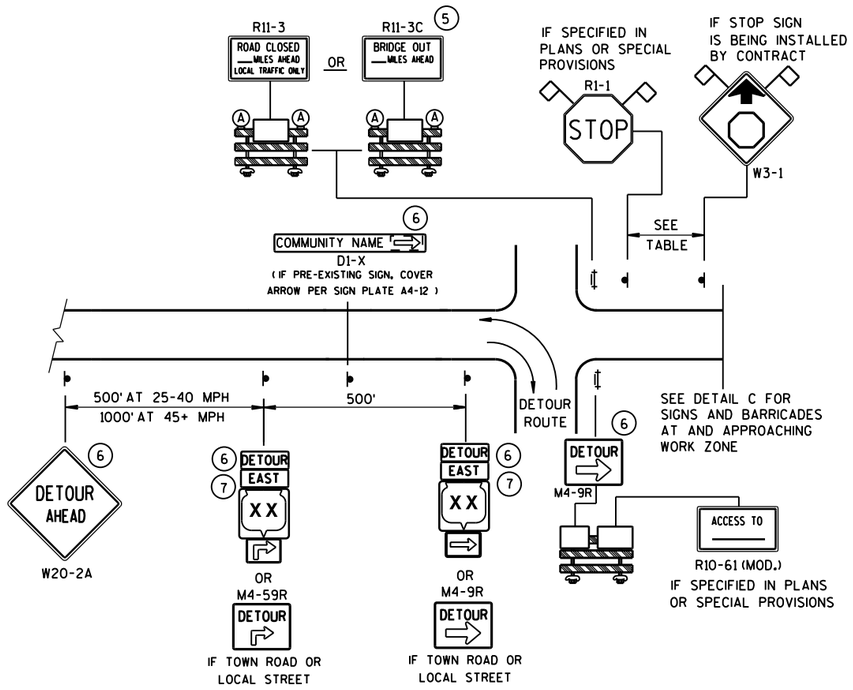
APPROVED
9/14/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 10-1

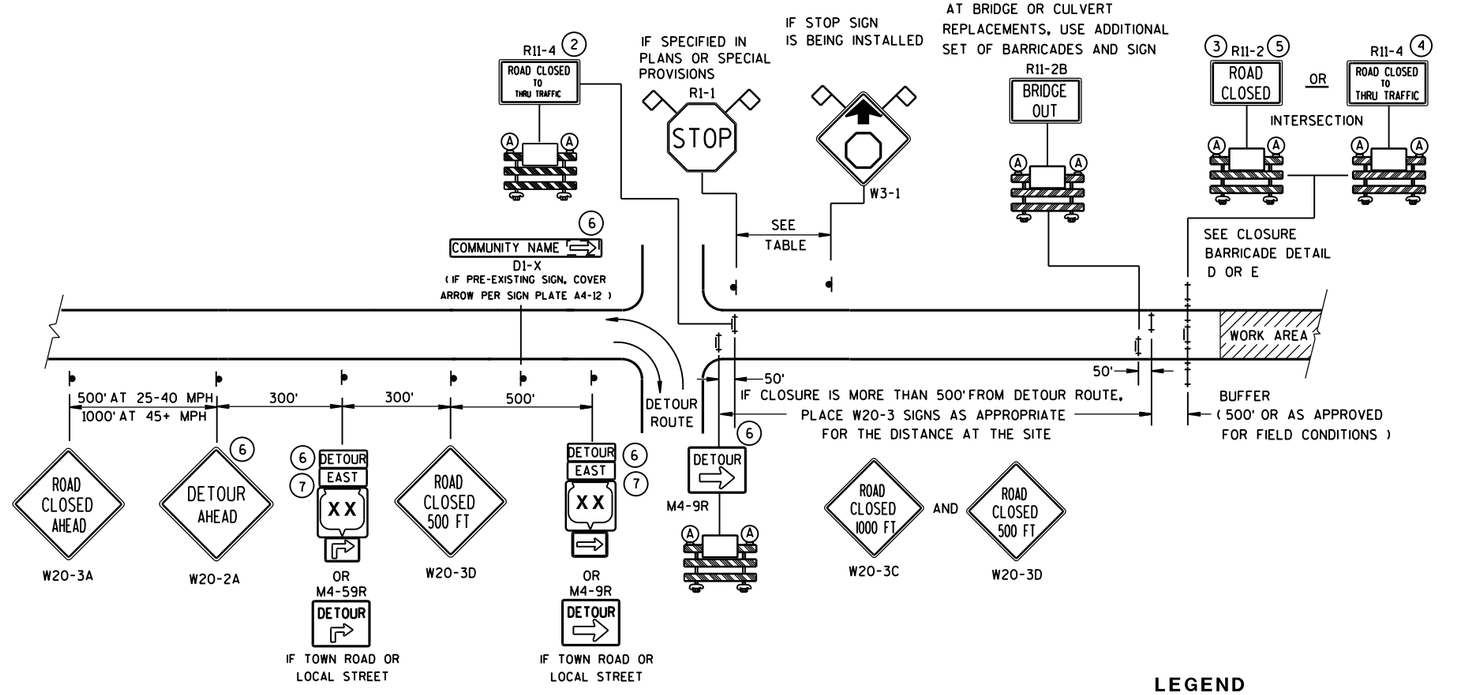
6

S.D.D. 8 F 10-1



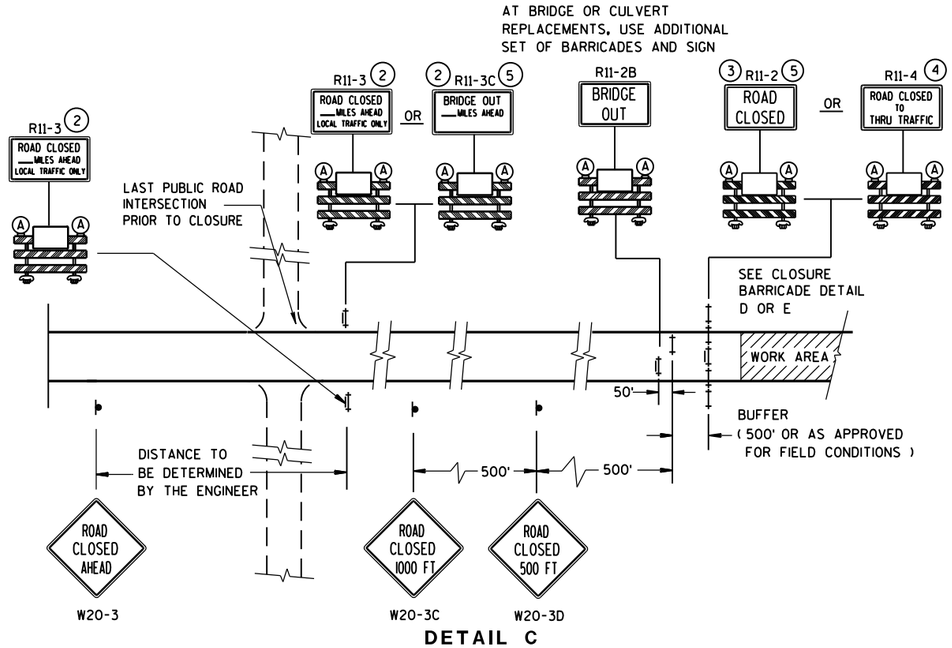
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**"
FOR GENERAL NOTES
AND FOOTNOTES (1) THROUGH (7)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

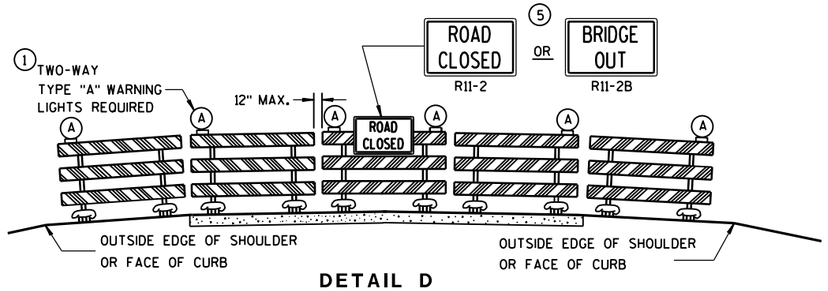
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

S.D.D. 15 C 2-6a

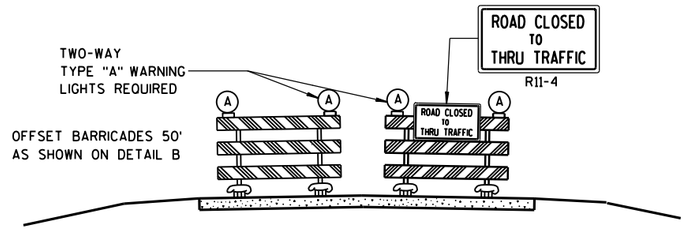
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

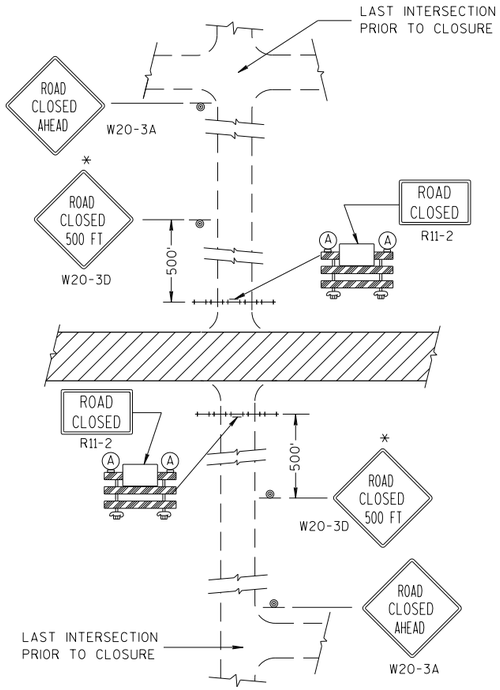
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC

FHWA

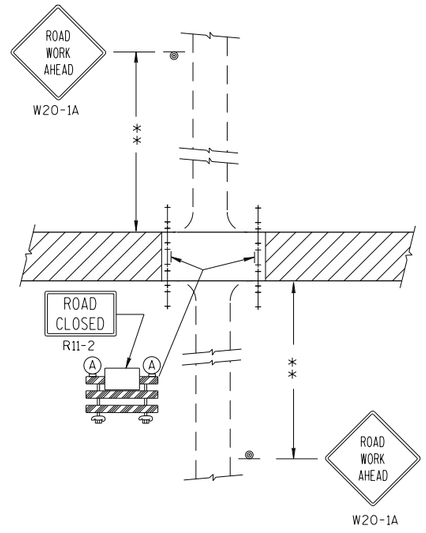
6

S.D.D. 15 C 2-6b



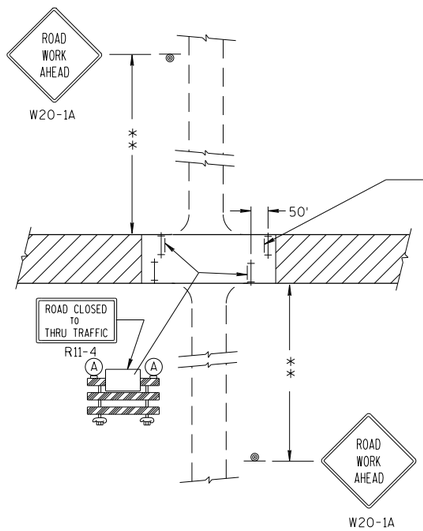
DETAIL 1

(NO ACCESS TO PROJECT)



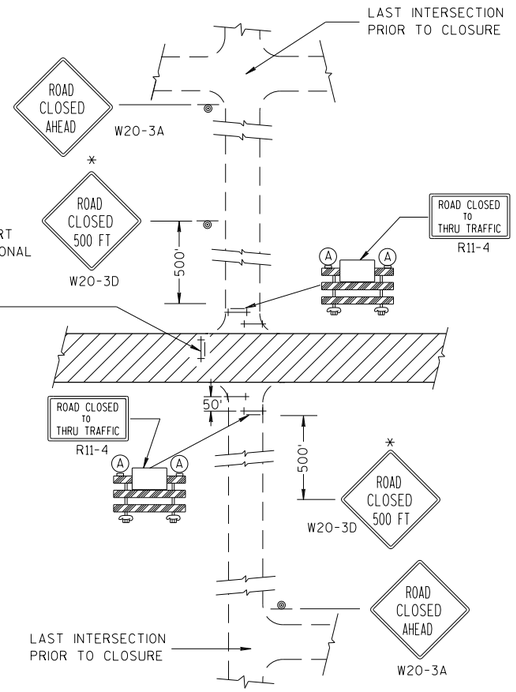
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGI

FHWA

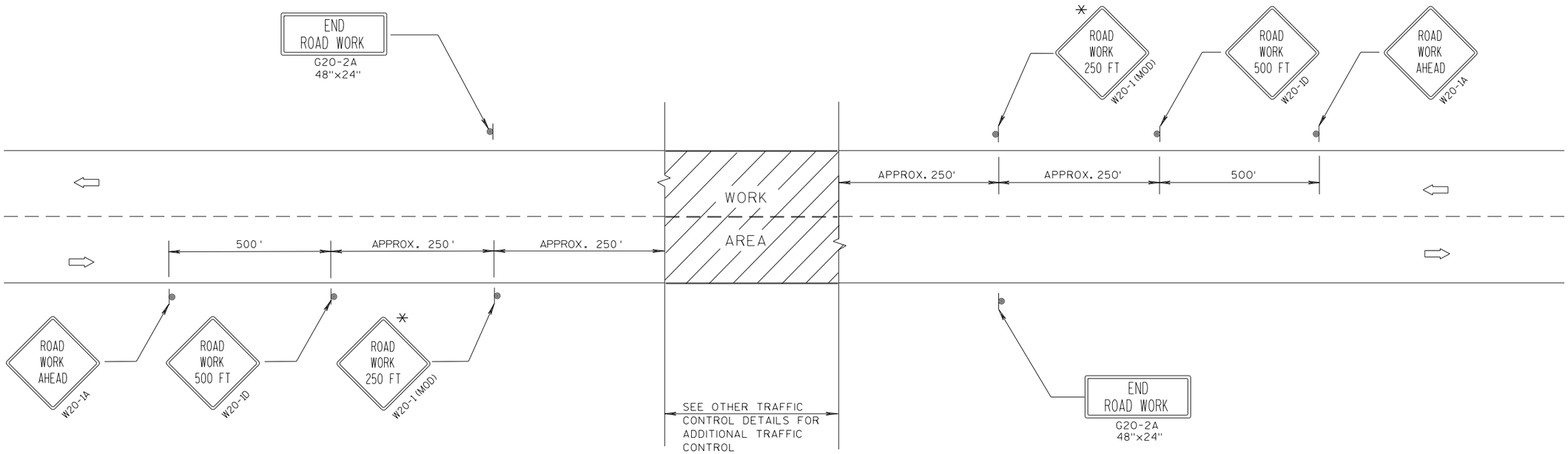
6

S.D.D. 15 C 3-5

6

S.D.D. 15 C 3-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

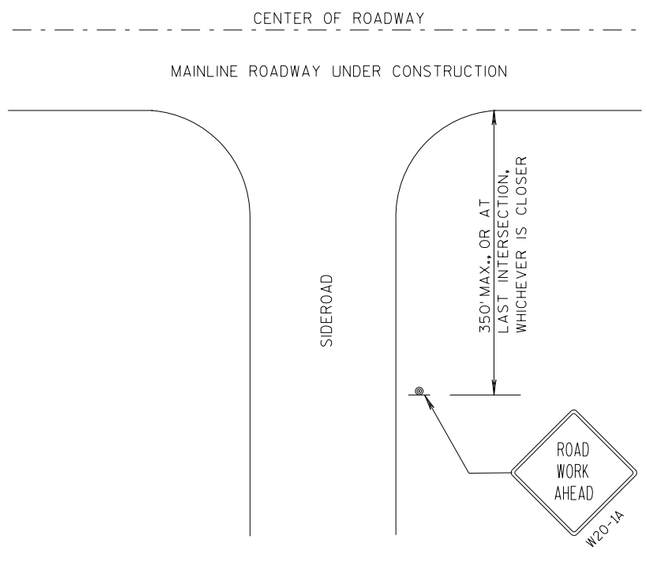
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENGI

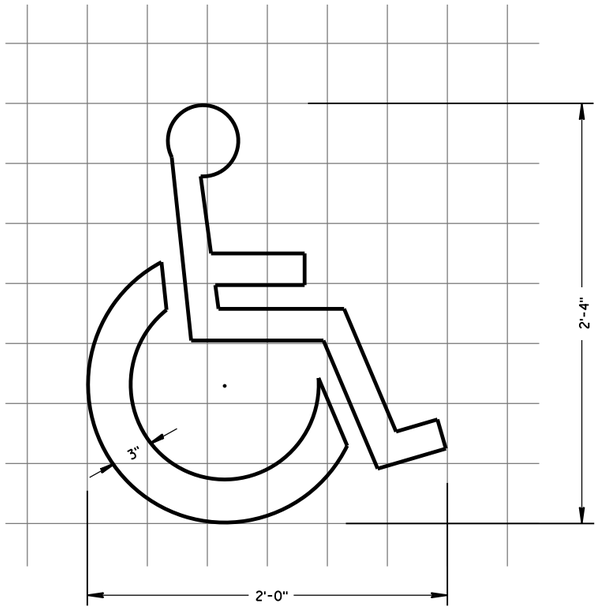
FHWA

6

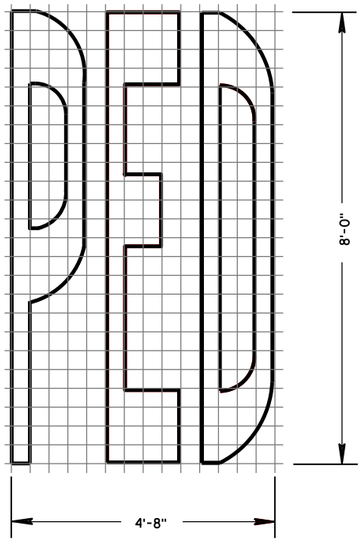
S.D.D. 15 C 5-5

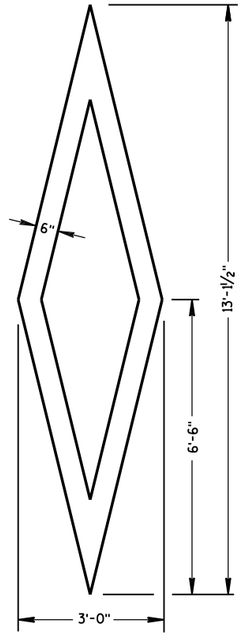
GENERAL NOTES

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.



HANDICAP SYMBOL





PREFERENTIAL LANE SYMBOL

6

6

S.D.D. 15 C 7-14a

S.D.D. 15 C 7-14a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

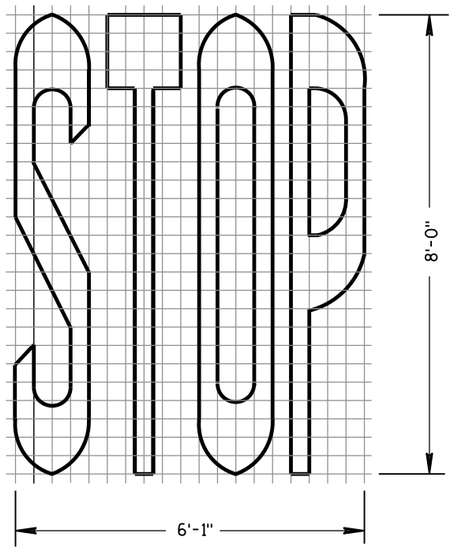
June 2017 — DATE

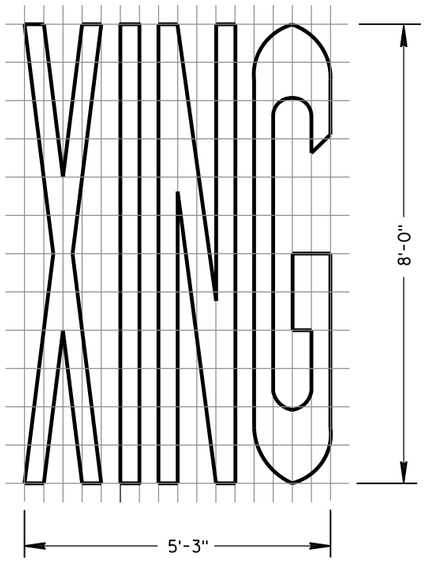
/S/ Matthew R. Rauch — STATE SIGNING AND MARK EER

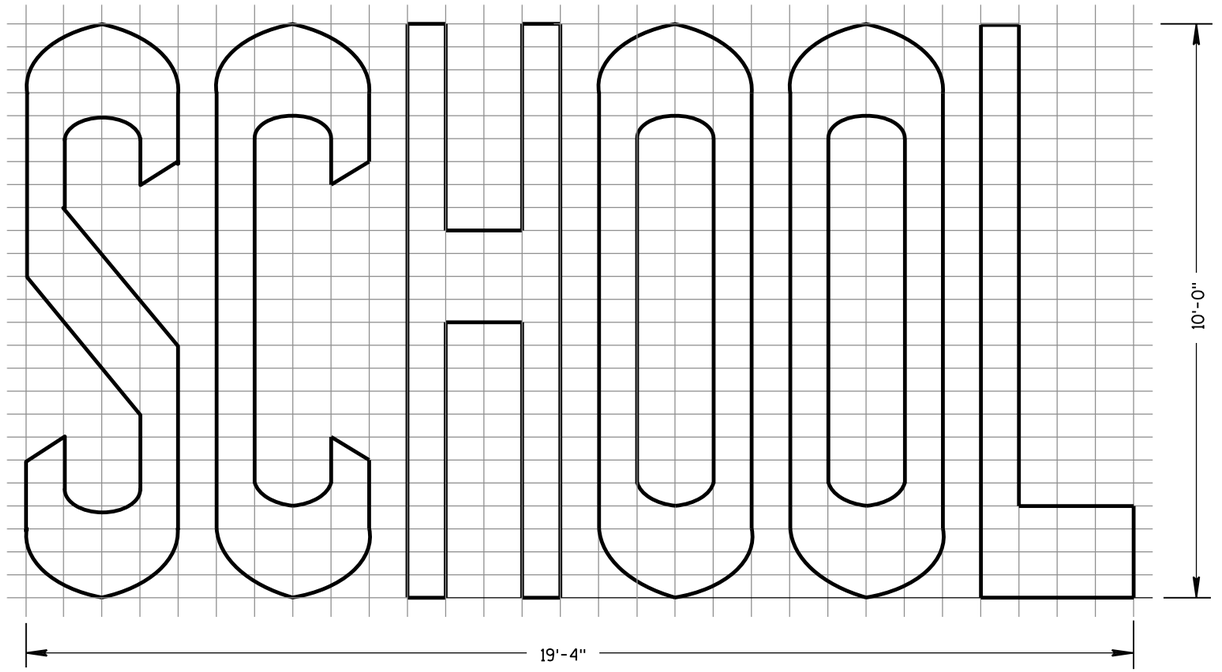
FHWA

GENERAL NOTES

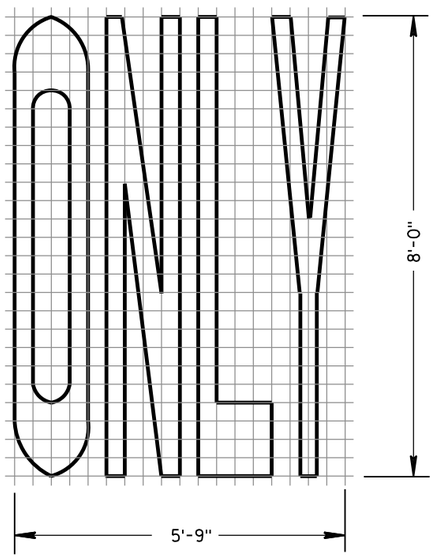
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

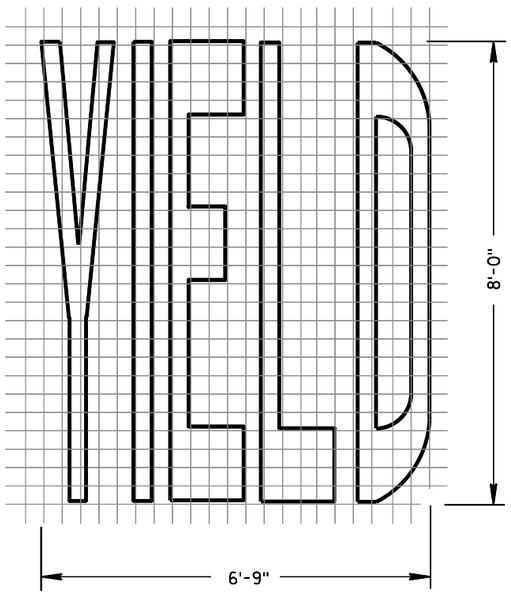


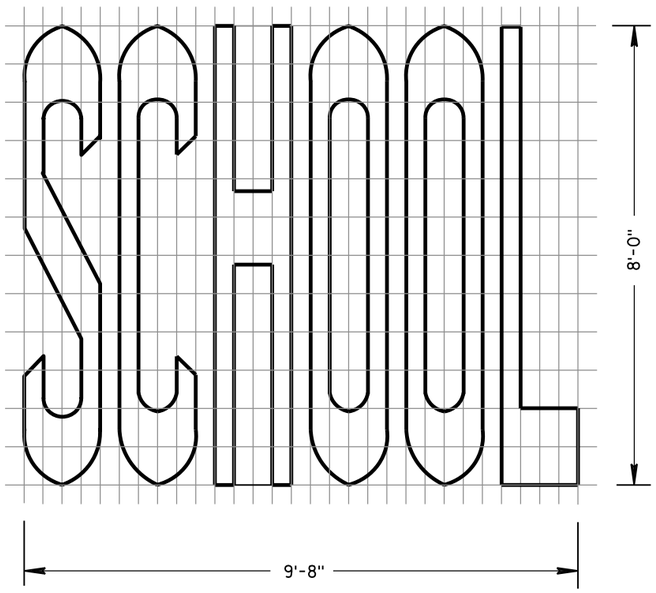




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

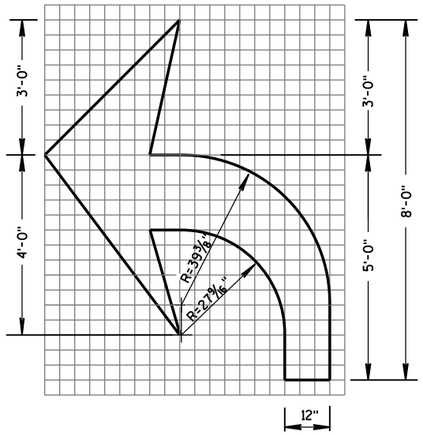
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
EER
FHWA

6

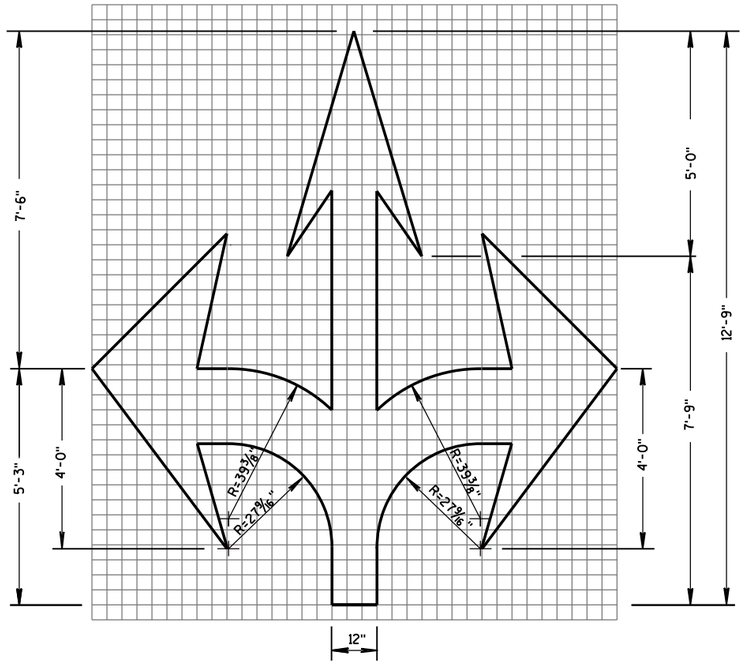
S.D.D. 15 C 7-14b

GENERAL NOTES

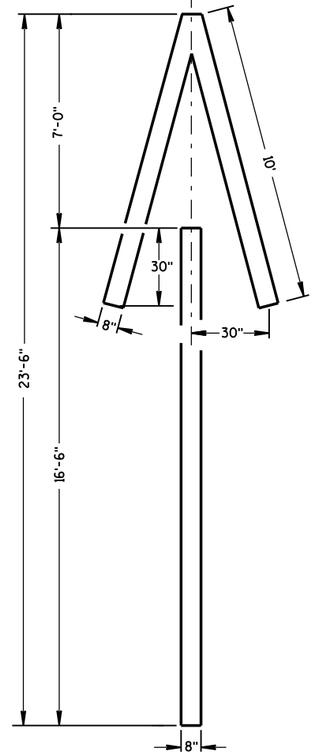
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



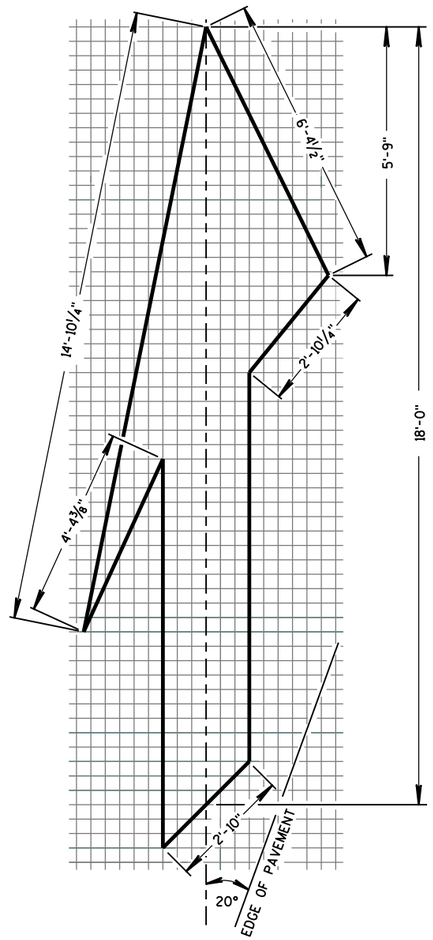
TYPE 2



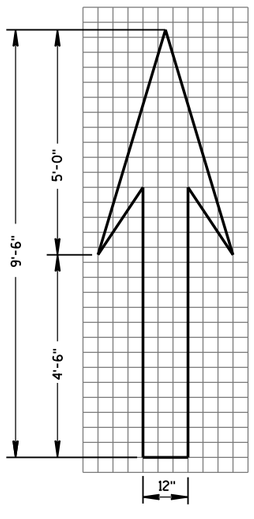
TYPE 6



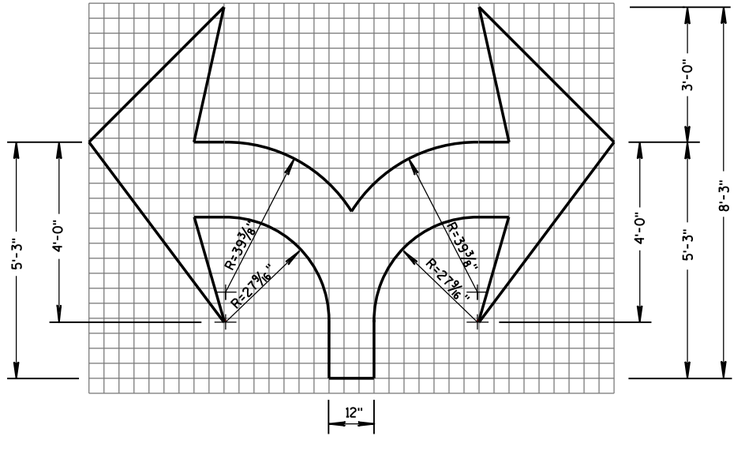
TYPE 4



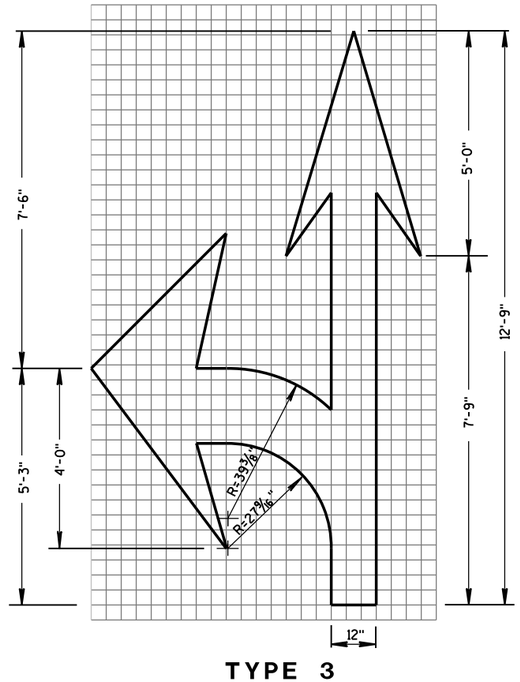
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

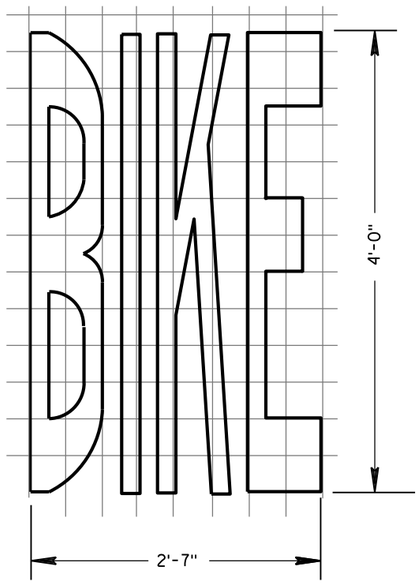
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER
FHWA

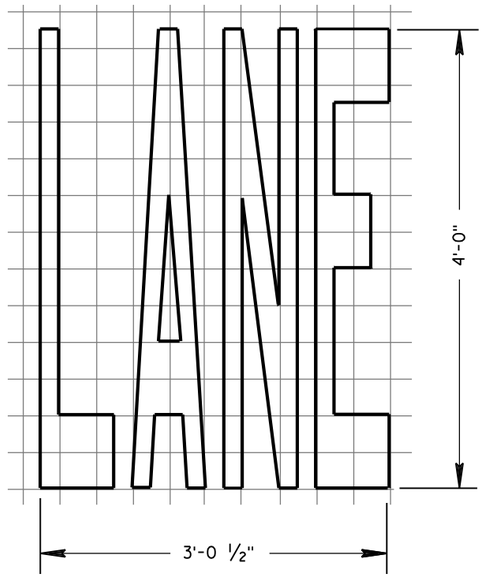
6

S.D.D. 15 C 7-14c

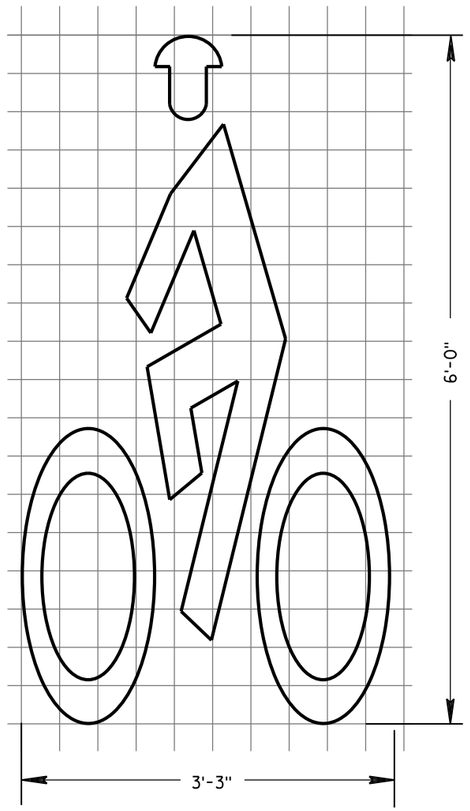
6

S.D.D. 15 C 7-14c

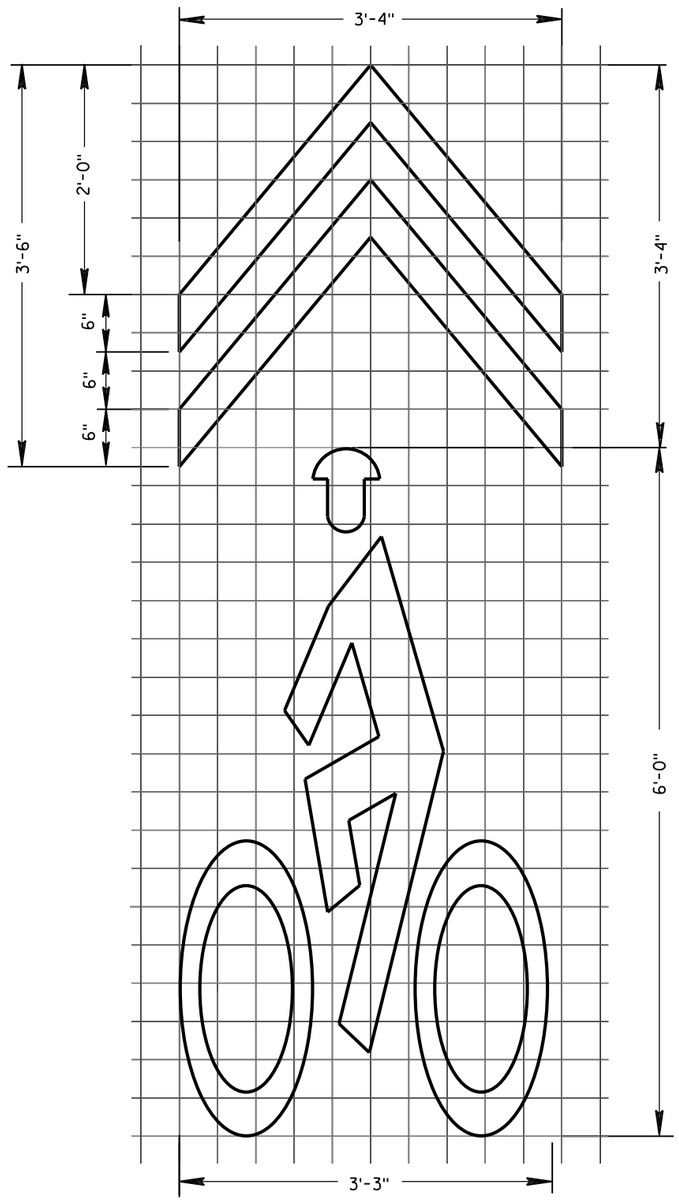




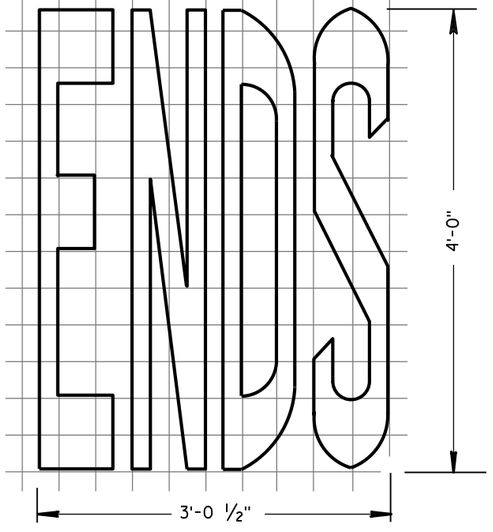
BIKE LANE WORDS



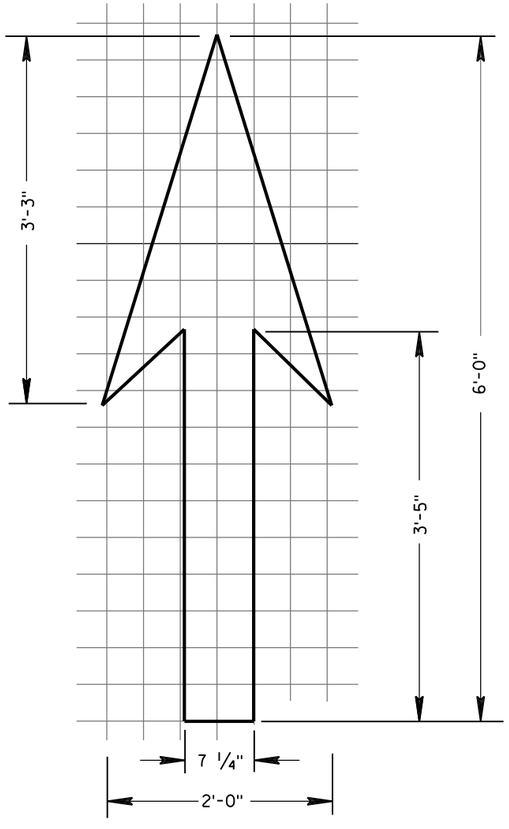
BIKE LANE SYMBOL



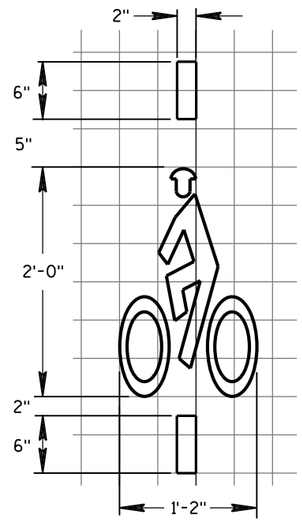
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

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.

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

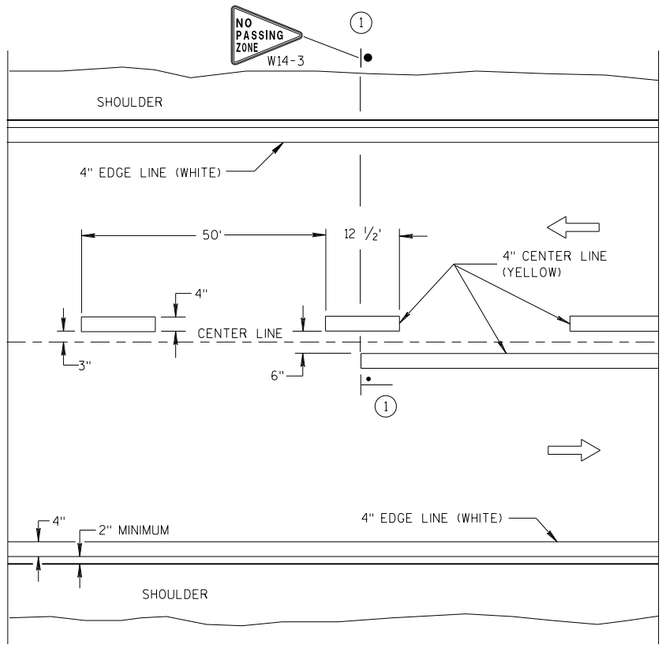
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

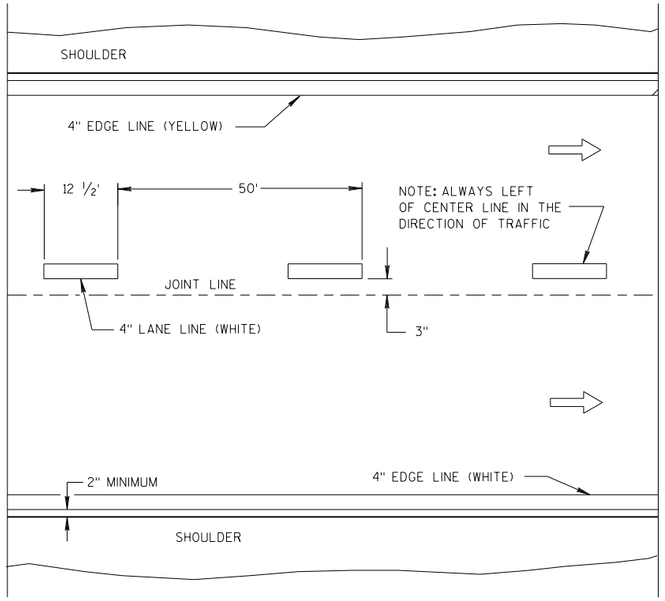
S.D.D. 15 C 7-14e

6

S.D.D. 15 C 7-14e



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.

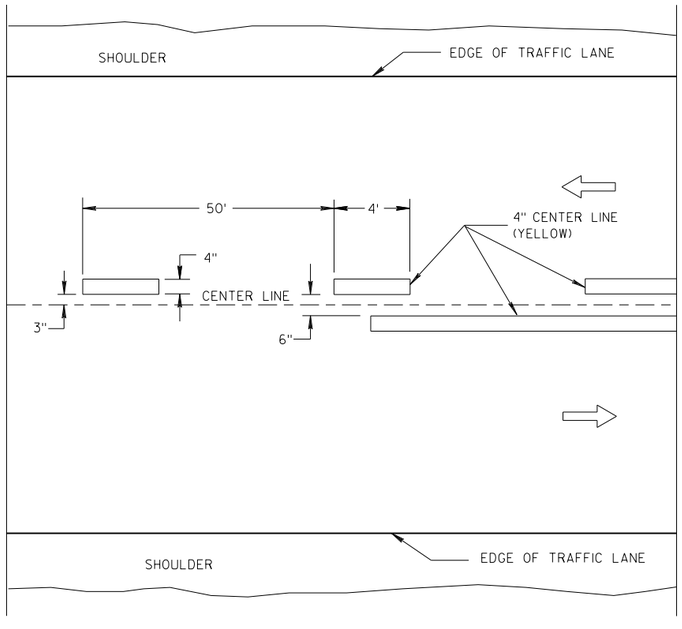
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

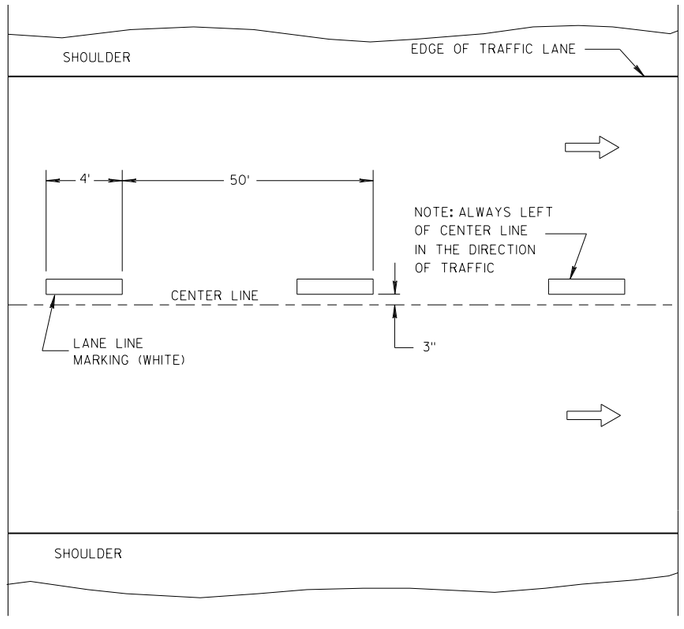
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

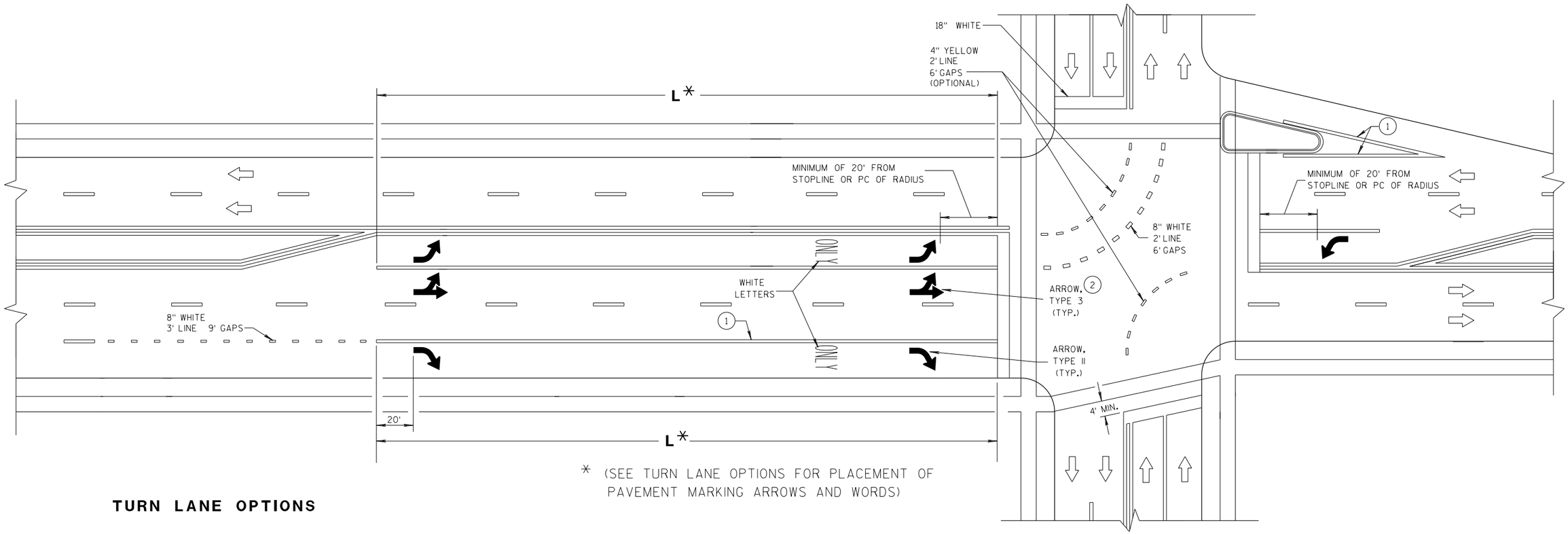
FHWA

6

S.D.D. 15 C 8-19a

6

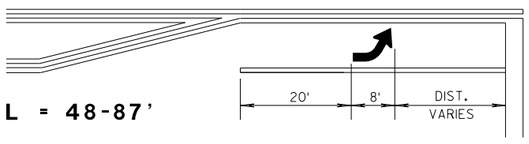
S.D.D. 15 C 8-19a



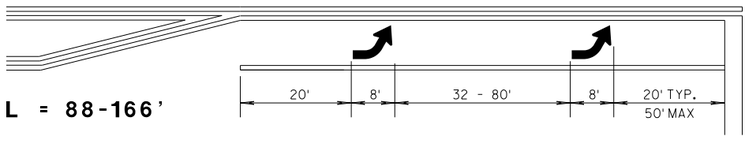
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

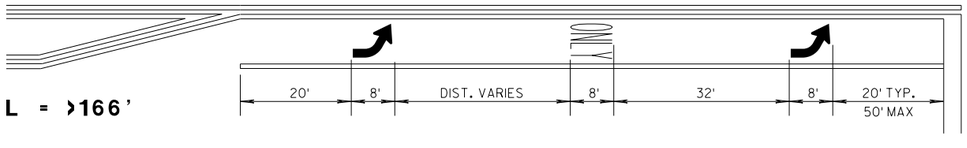
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

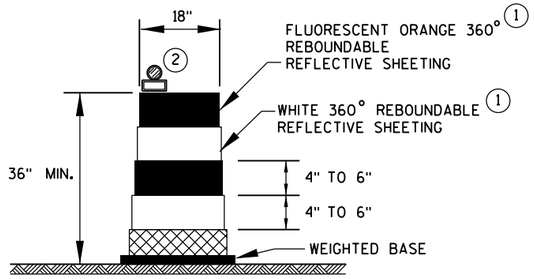
(1) 8" WHITE

(2) QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

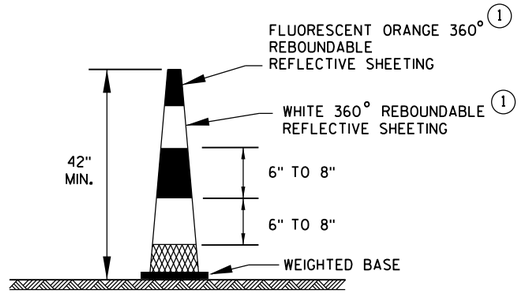
⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)



DRUM

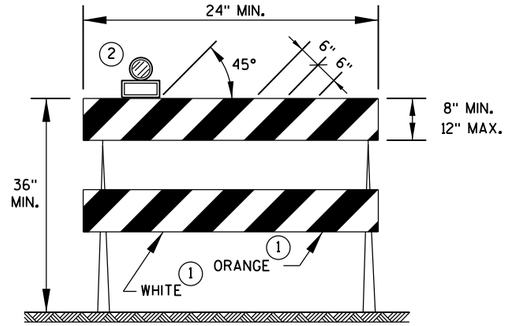


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

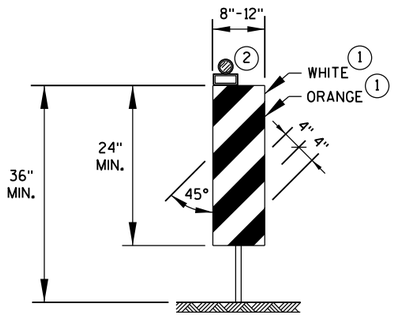
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



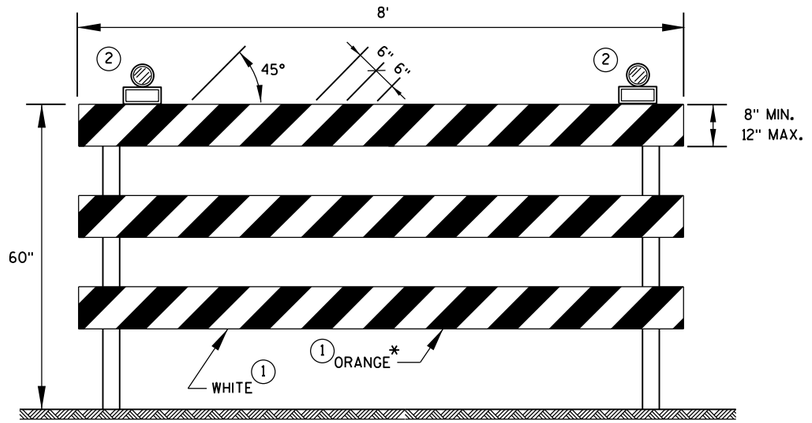
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

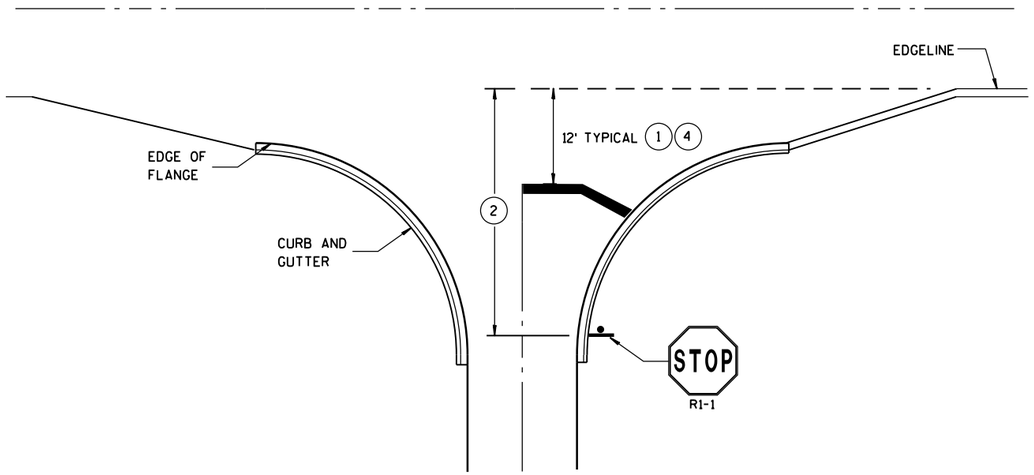
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

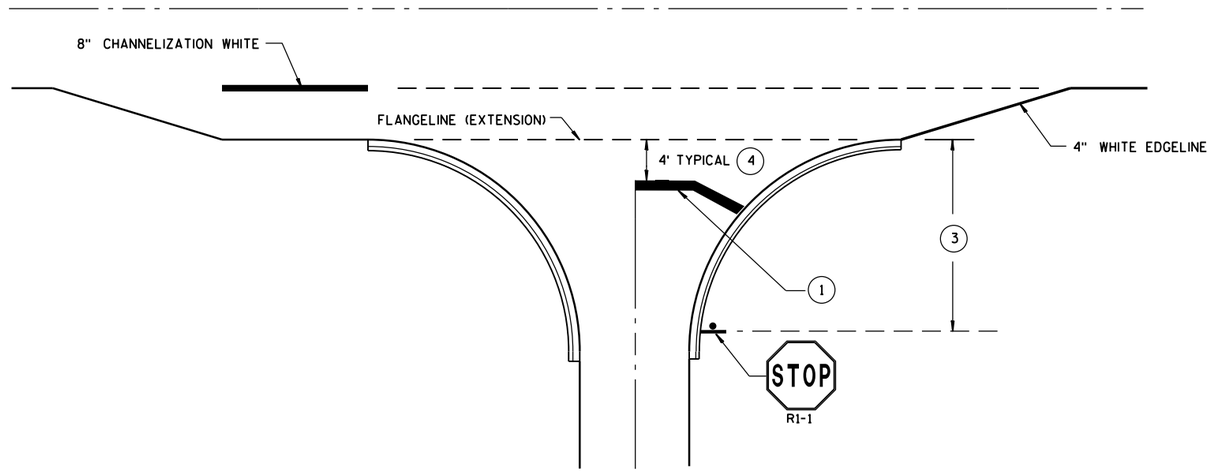
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG
FHWA	

6

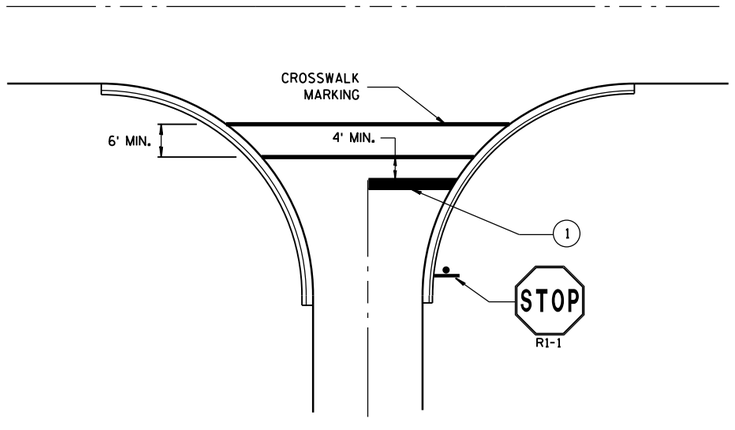
S.D.D. 15 C 11-7b



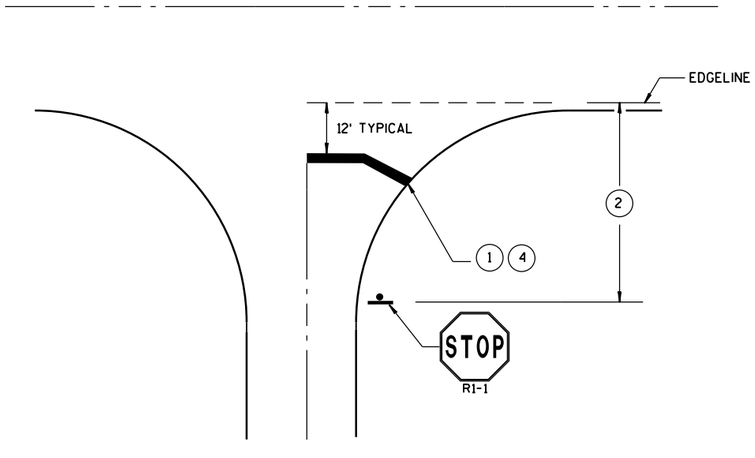
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

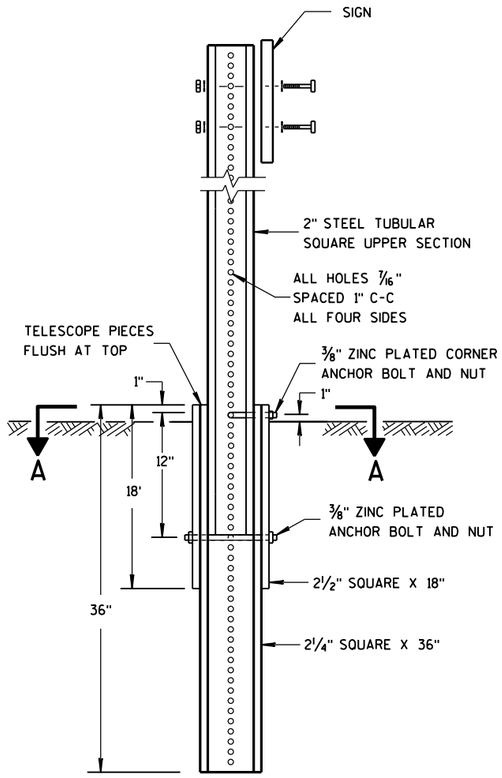
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

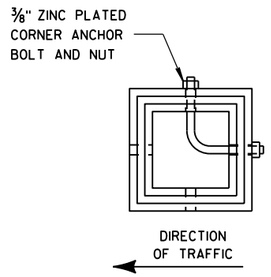
FHWA

6

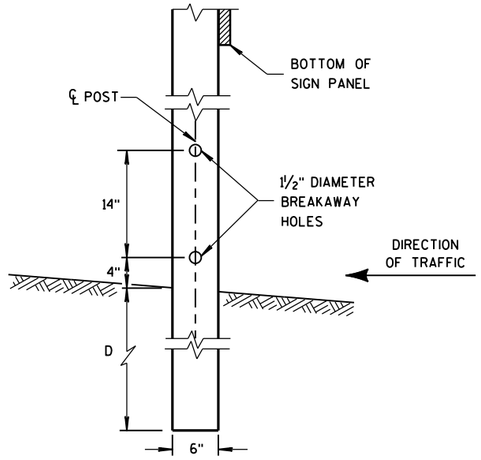
S.D.D. 15 C 33-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



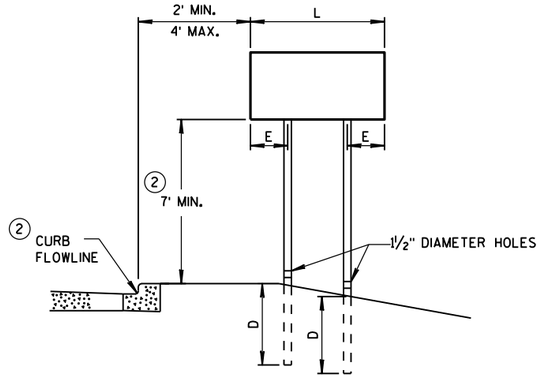
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

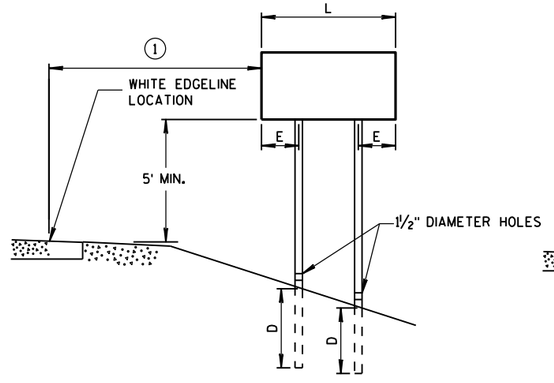
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

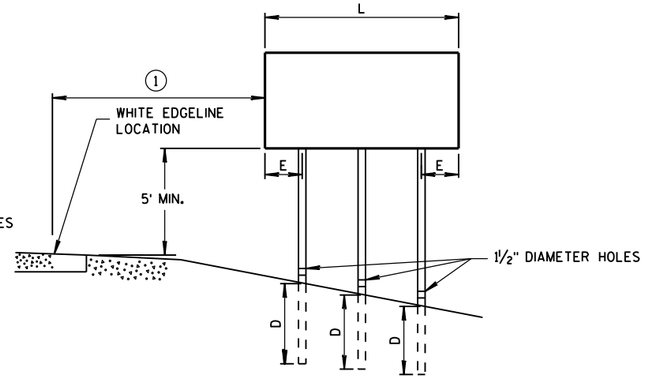
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

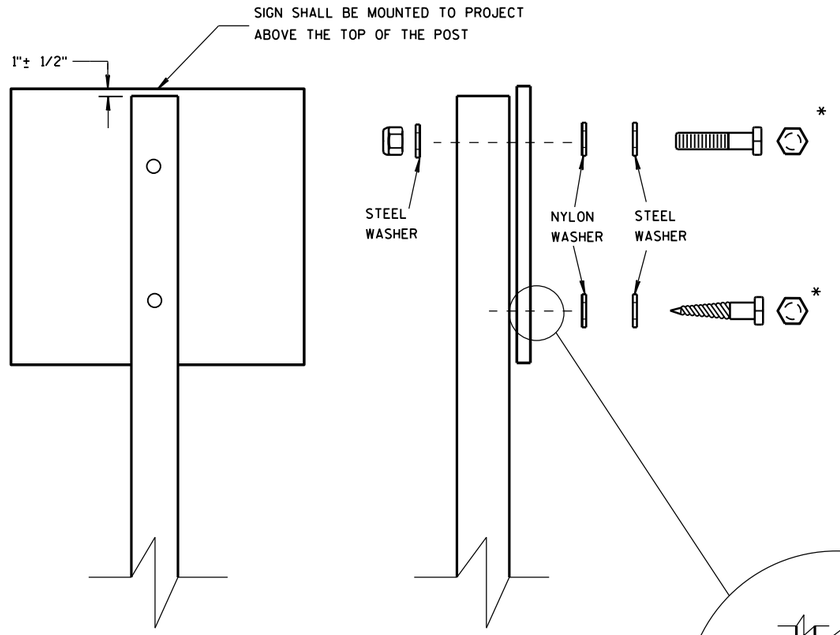
SEE NOTE (3)

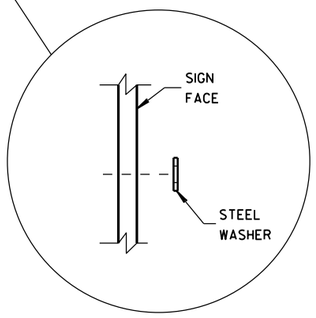
TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

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.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

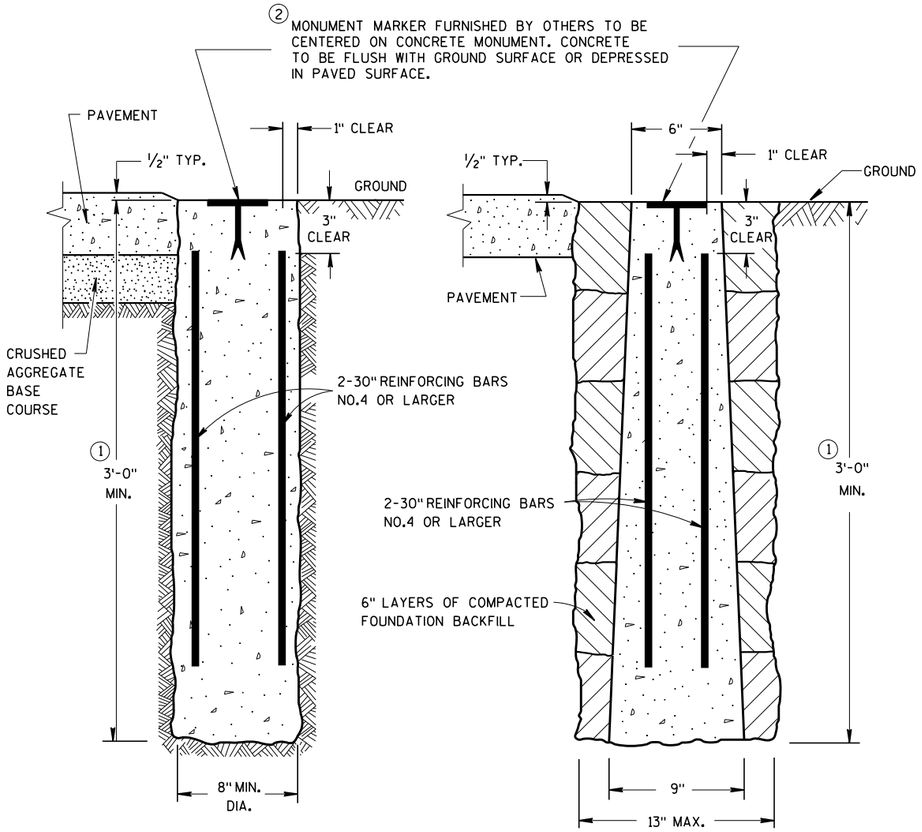
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

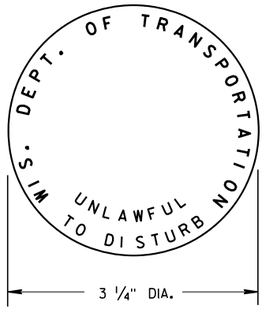


CAST-IN-PLACE

PRECAST

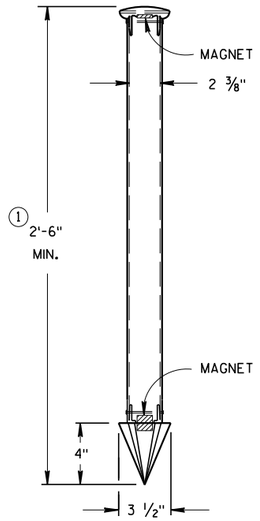
CONCRETE MONUMENTS

TYPE A



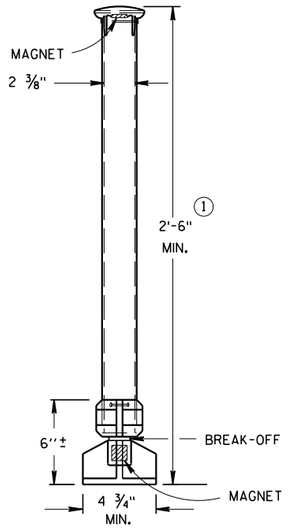
② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C", & "D"



TYPE C

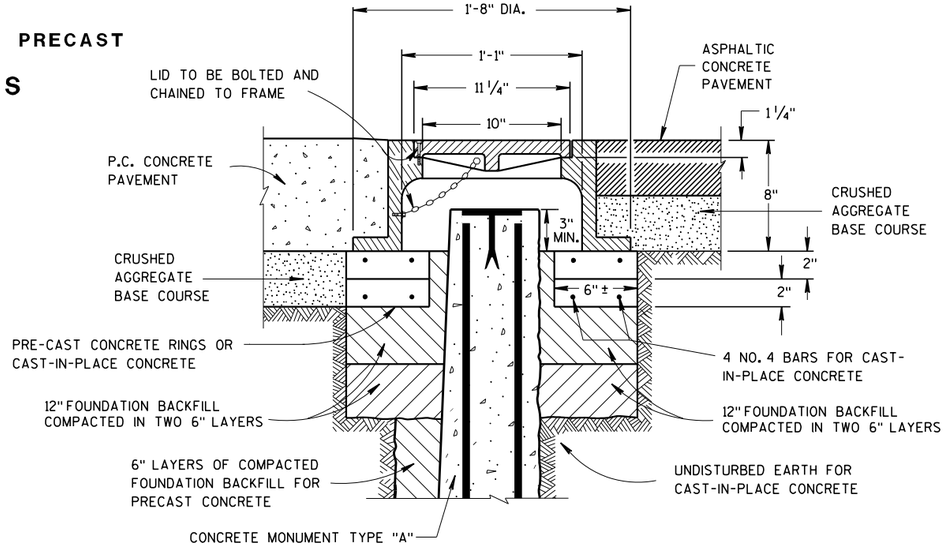
DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

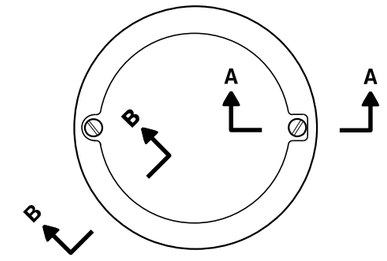
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

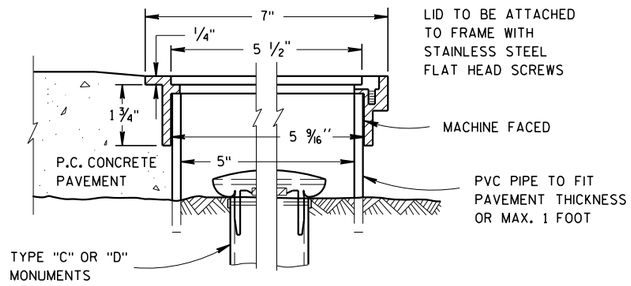
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

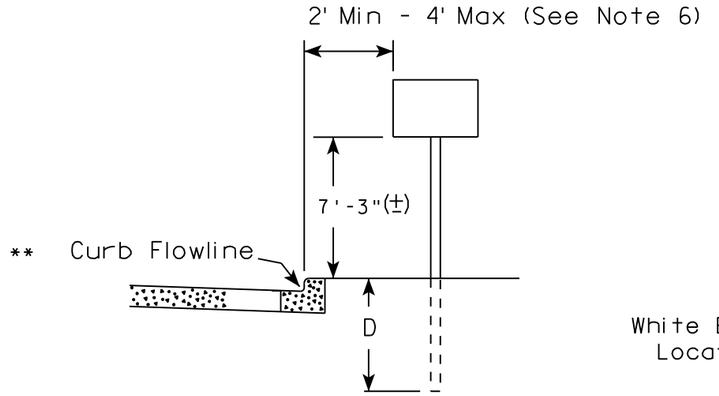
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

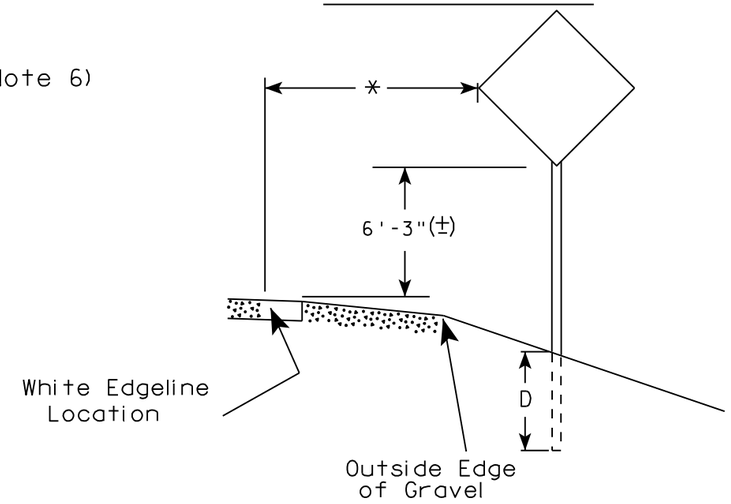
6

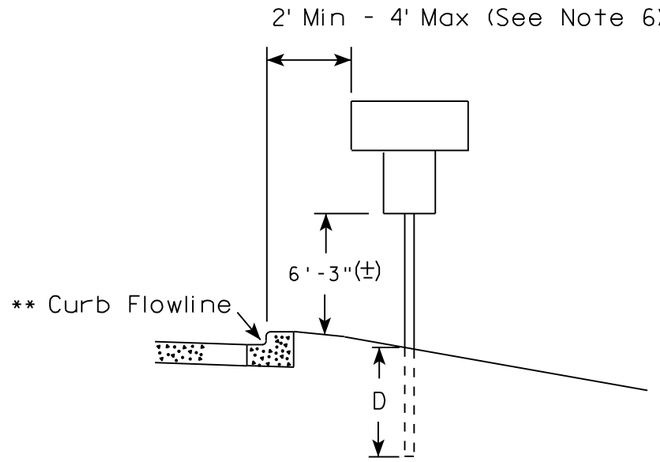
S.D.D. 16 A 1-7

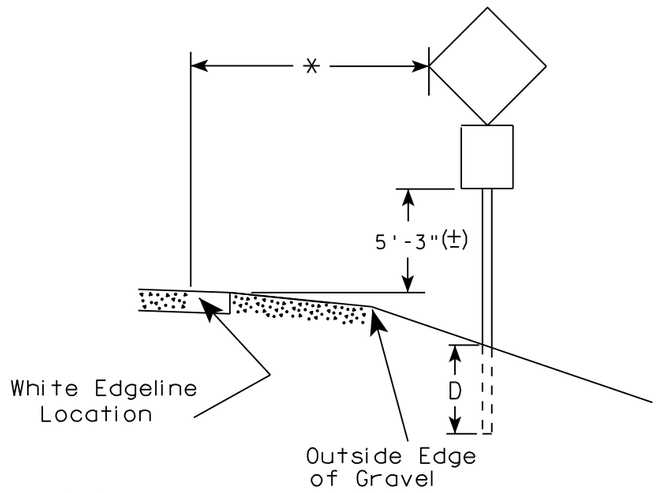
URBAN AREA



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" (±).

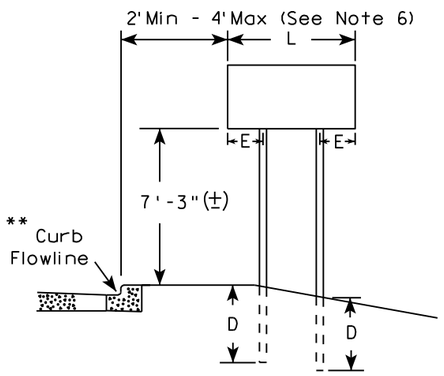
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

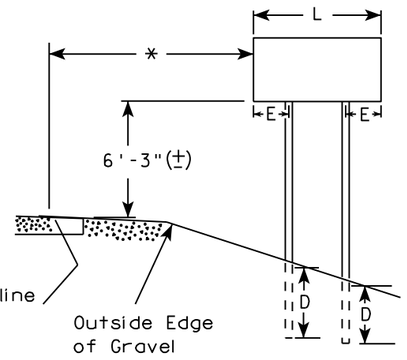
APPROVED Matthew R Rauch
for State Traffic Engineer

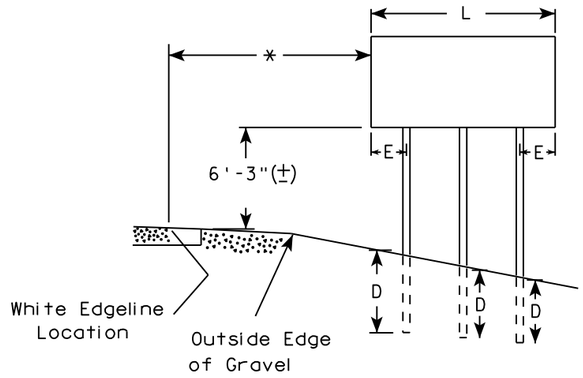
DATE 8/21/17 PLATE NO. A4-3.21

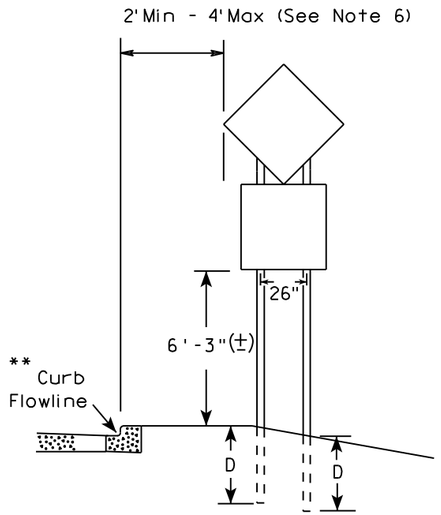
URBAN AREA



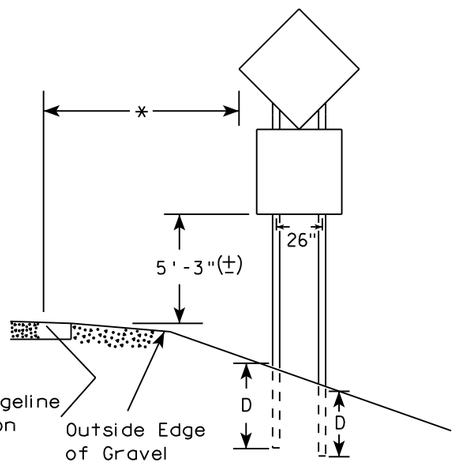
RURAL AREA (See Note 3)







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

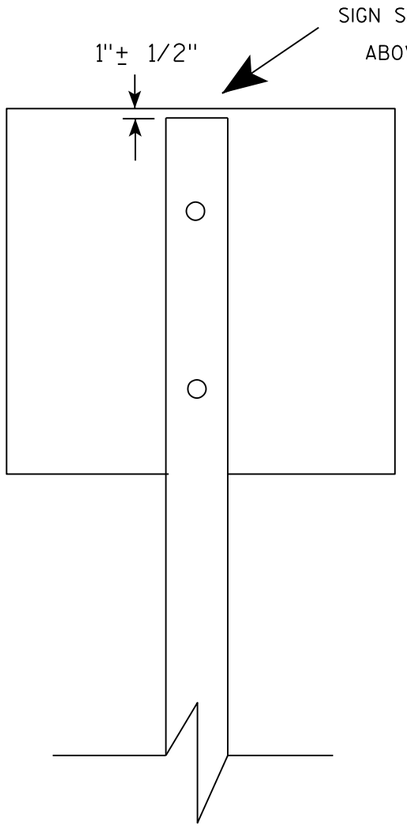
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE		SHEET NO: 158	E

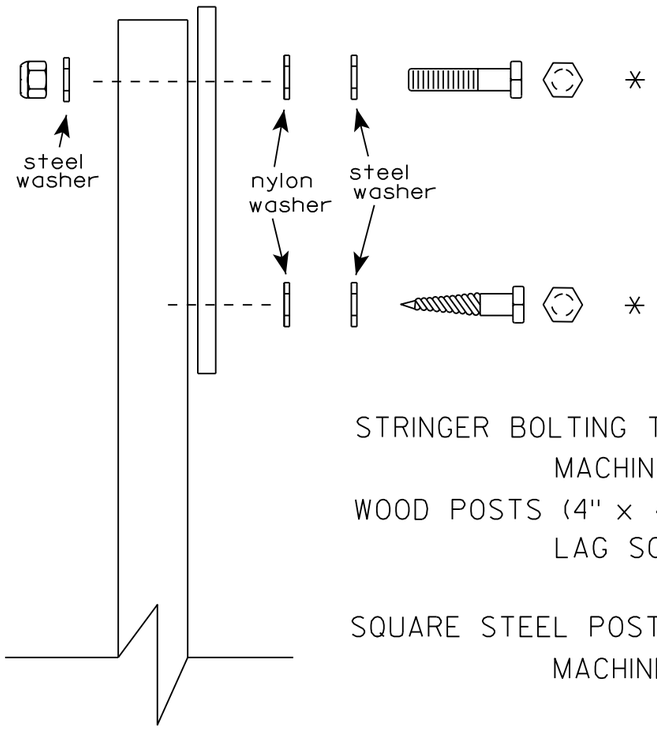
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 21-AUG-2017 15:54 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42

7

7





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

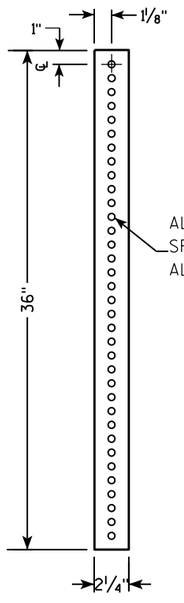
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: 4657-25-01	SPENCER STREET	OUTAGAMIE		SHEET NO: 159	E

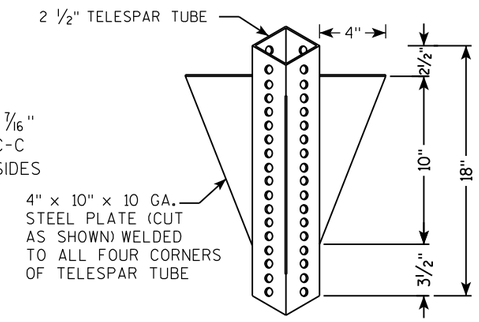
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : ** platuser **

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

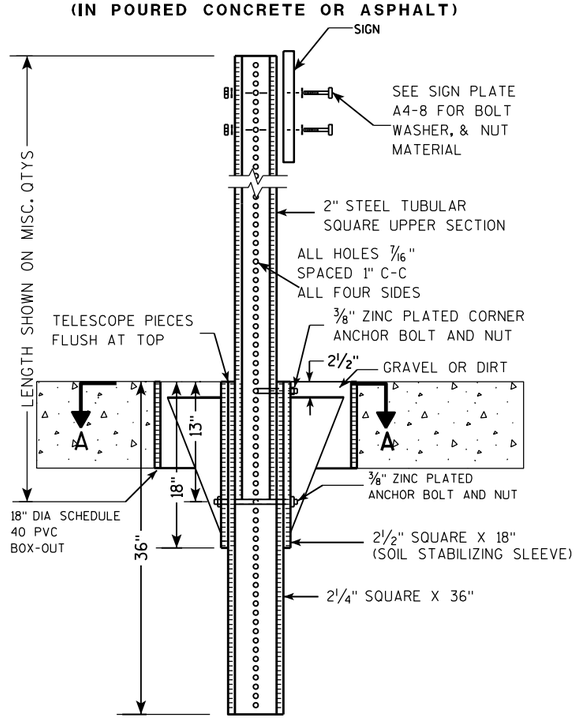
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



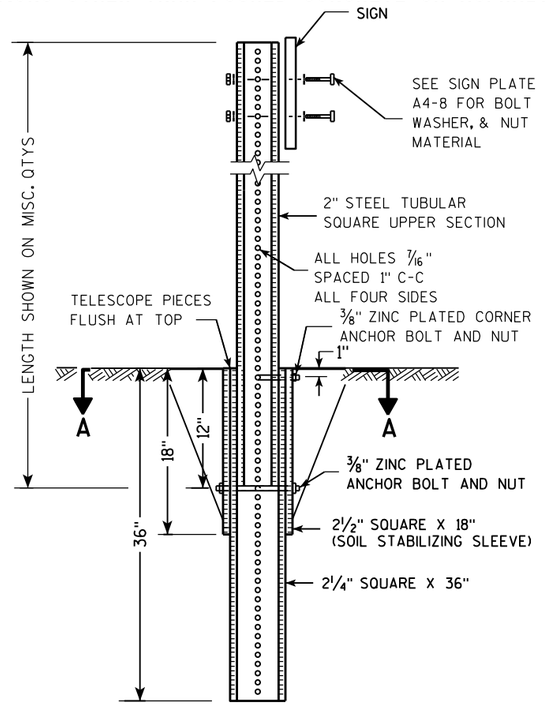
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

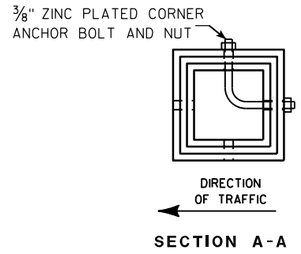


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

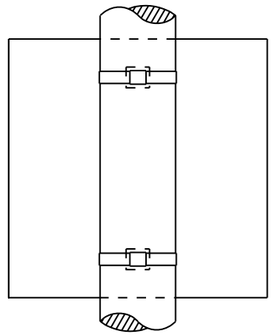
APPROVED Matthew R Rauch
for State Traffic Engineer

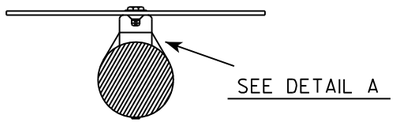
DATE 2/05/15 PLATE NO. A4-9.9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE		SHEET NO: 160	E

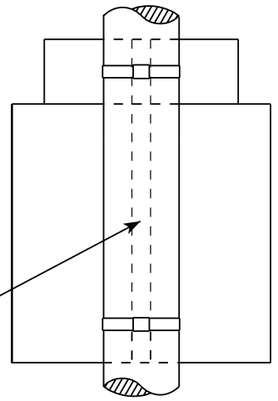
BANDING

SINGLE SIGN

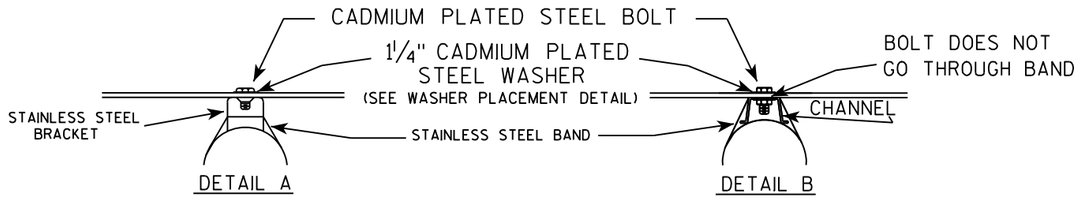




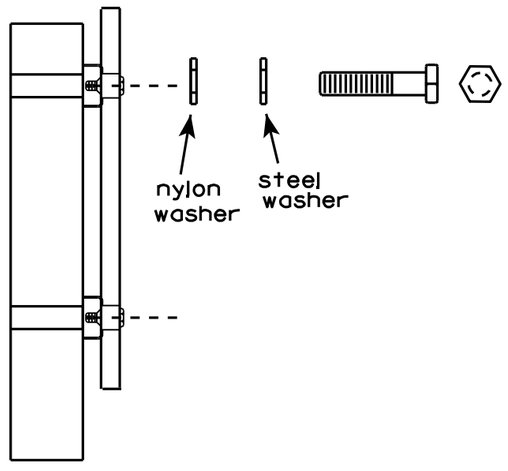
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL INSTALLATION SHEET



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 ¾" in width and 0.025" thickness.

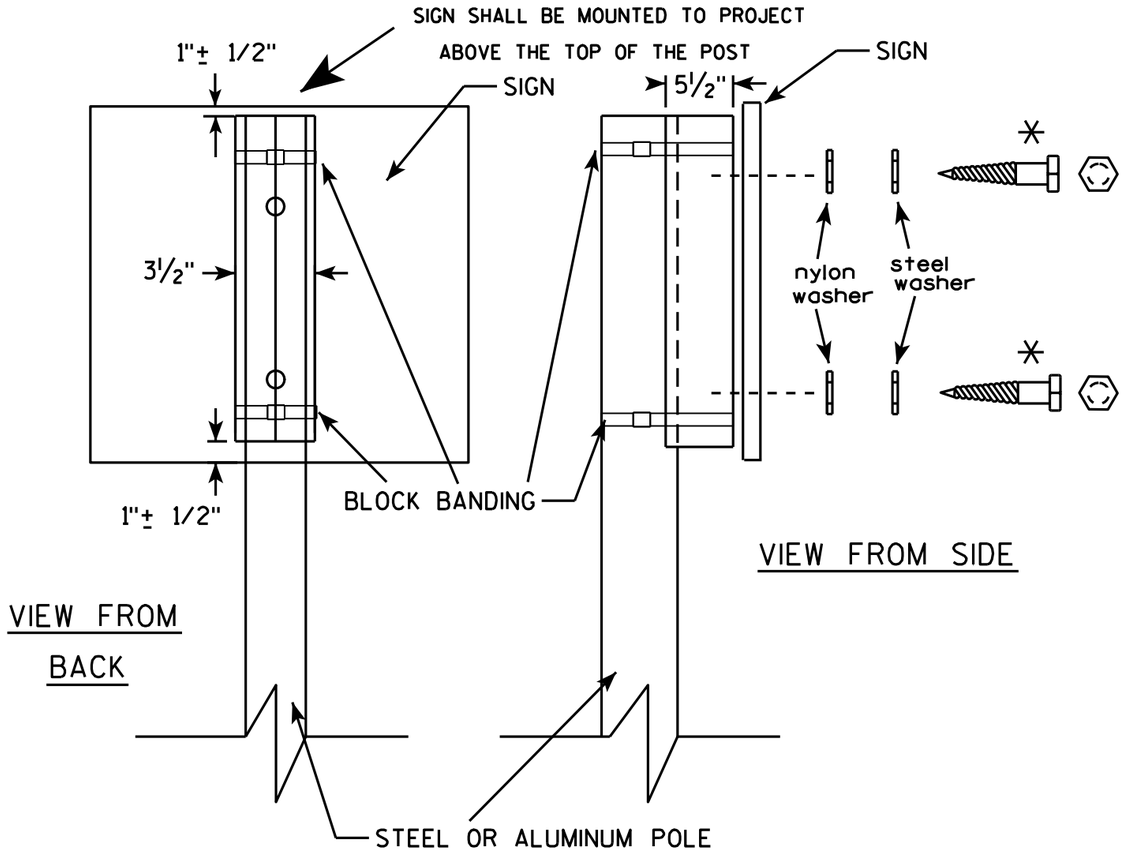
STANDARD SIGN
SIGN BANDING DETAILS

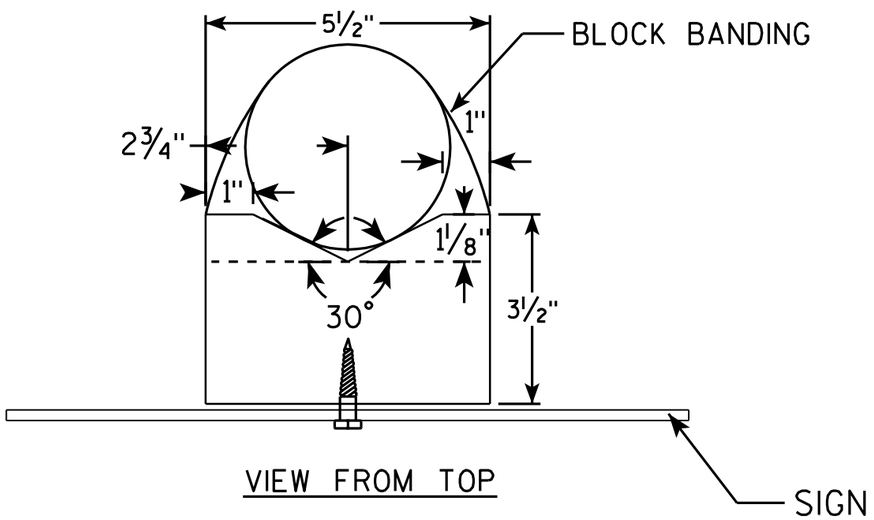
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE		SHEET NO: 161	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"

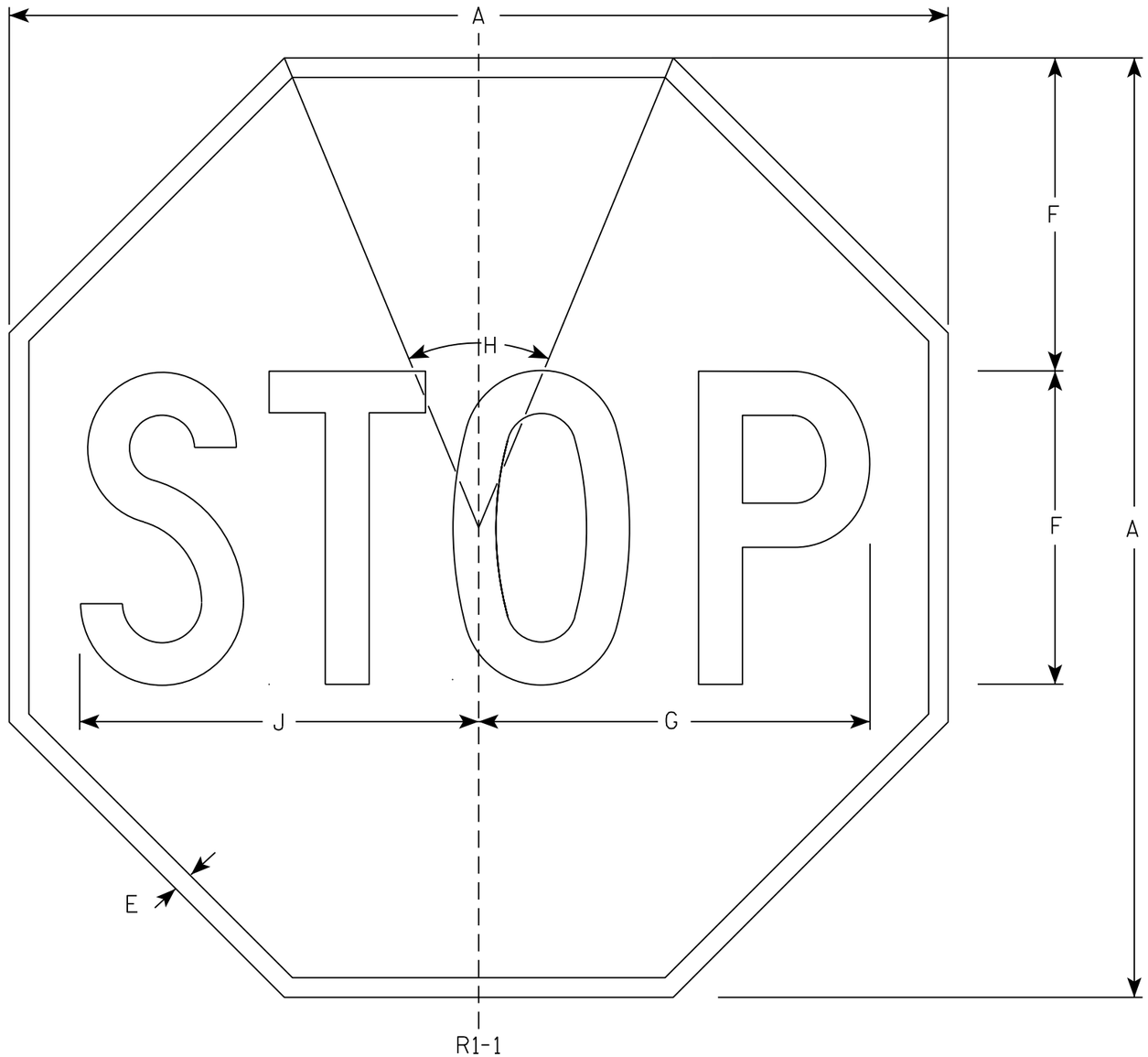
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO: 4657-25-01	SPENCER STREET	OUTAGAMIE		SHEET NO: 162	E



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

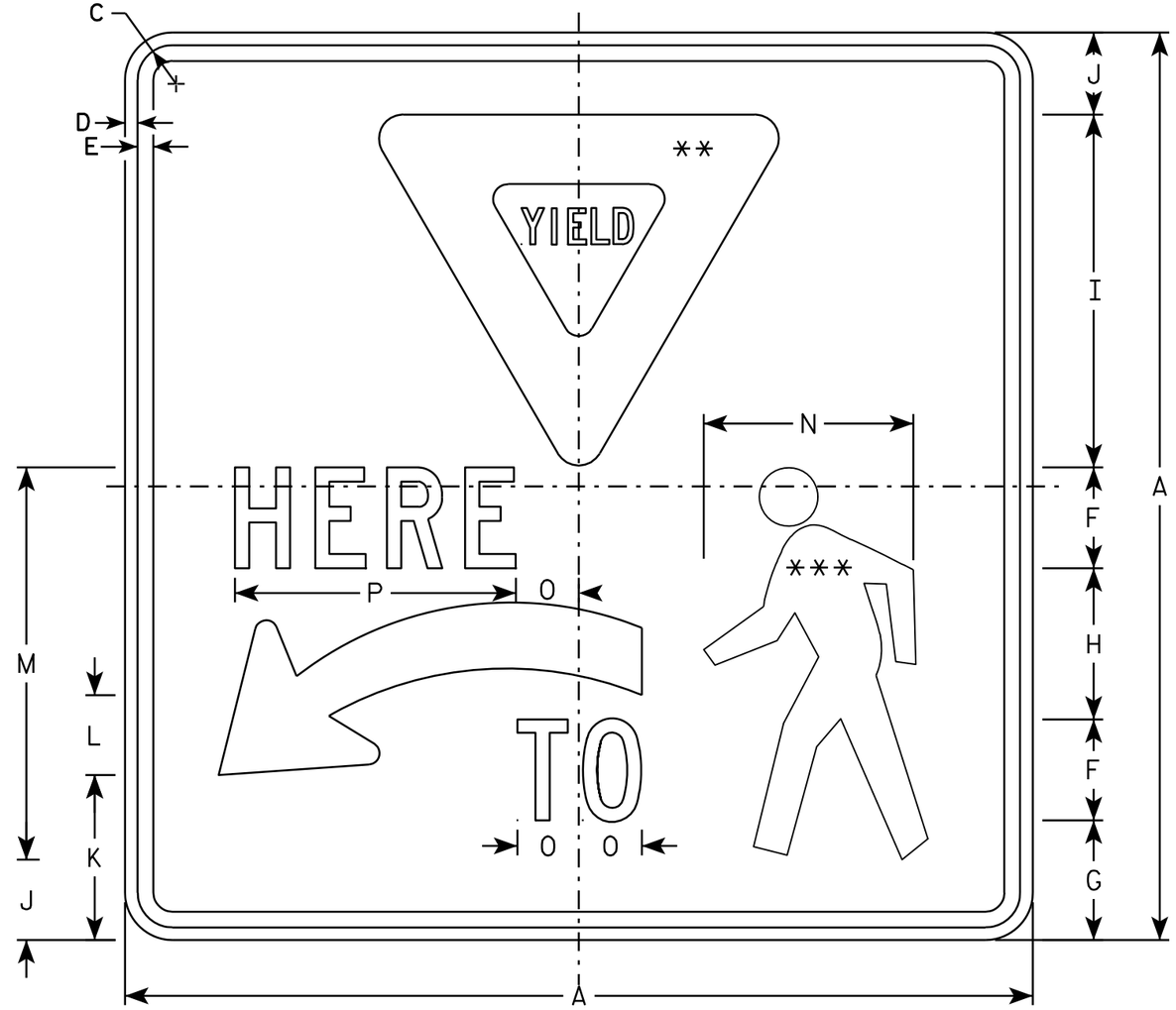
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO: 4657-25-01 | HWY: SPENCER STREET | COUNTY: OUTAGAMIE | SHEET NO: 163 | E



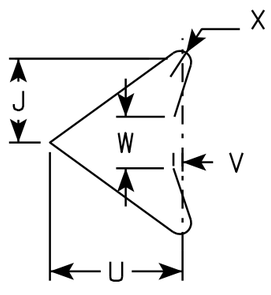
R1-5L

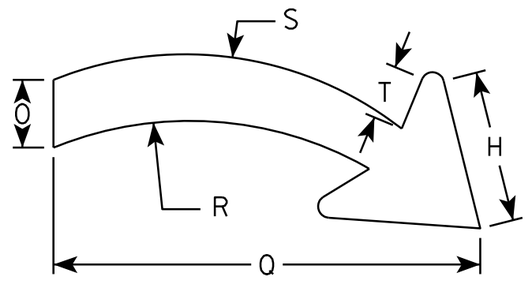
NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
   YIELD SYMBOL - RED ON WHITE
   PED SYMBOL - BLACK ON WHITE
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.

** INSERT R1-2 AND SIZE TO FIT

*** INSERT W11-2 AND SIZE TO FIT





Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18		1 1/8	3/8	3/8	2	2 3/8	3	7	1 5/8	3 1/4	1 5/8	7 3/4	4 1/8	1 1/4	5 5/8	1 3/8	14 1/4	13 3/4	1 1/8	2 5/8	1/8	1	1/2			2.25
2M	18		1 1/8	3/8	3/8	2	2 3/8	3	7	1 5/8	3 1/4	1 5/8	7 3/4	4 1/8	1 1/4	5 5/8	1 3/8	14 1/4	13 3/4	1 1/8	2 5/8	1/8	1	1/2			2.25
3	30		1 3/8	1/2	5/8	3	4	5 3/8	12	2 3/4	5 1/2	2 5/8	13	6 7/8	1 7/8	8 3/8	14	23 3/4	23	1 3/4	4 3/8	1/4	1 3/4	3/4			6.25
4	36		1 3/8	1/2	5/8	4	4 3/4	6	14	3 1/4	6 1/2	3 1/8	15	8 1/4	2 1/2	11 1/8	16 3/4	28 1/2	27 3/4	2 1/8	5 1/4	3/8	2	1			9.0
5																											

STANDARD SIGN
R1-5L

WISCONSIN DEPT OF TRANSPORTATION

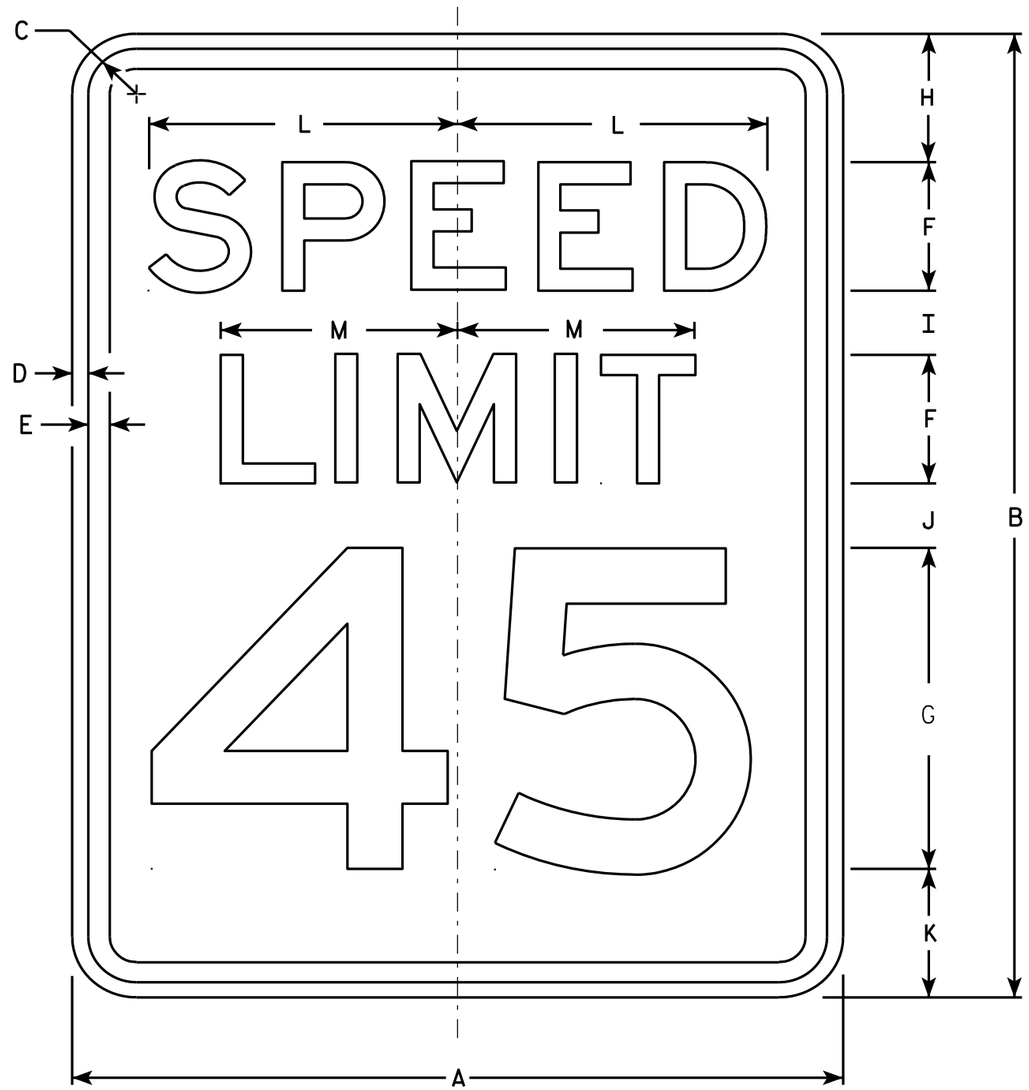
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-5L.3

PROJECT NO: 4657-25-01 | HWY: SPENCER STREET | COUNTY: OUTAGAMIE | SHEET 164 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R15L.DGN PLOT DATE : 03-DEC-2010 09:07 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42



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

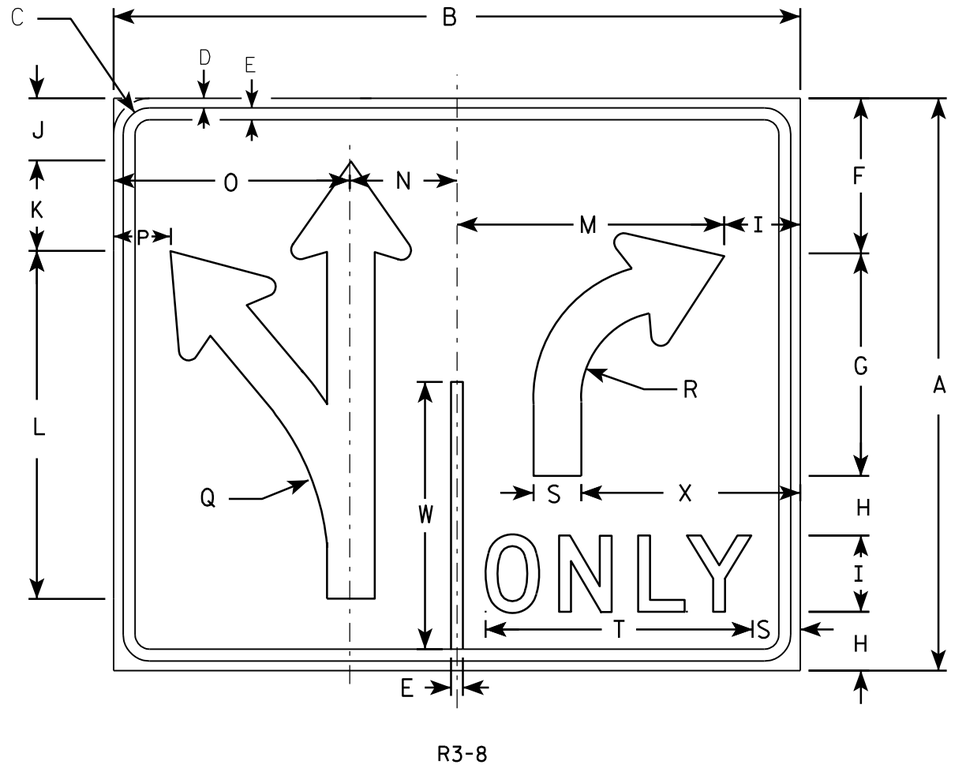
PROJECT NO: 4657-25-01 | HWY: SPENCER STREET | COUNTY: OUTAGAMIE | SHEET NO: 165 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

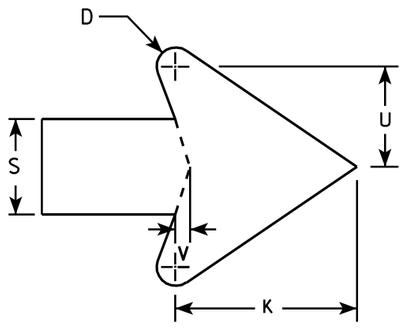
WISDOT/CADDS SHEET 42

7

7



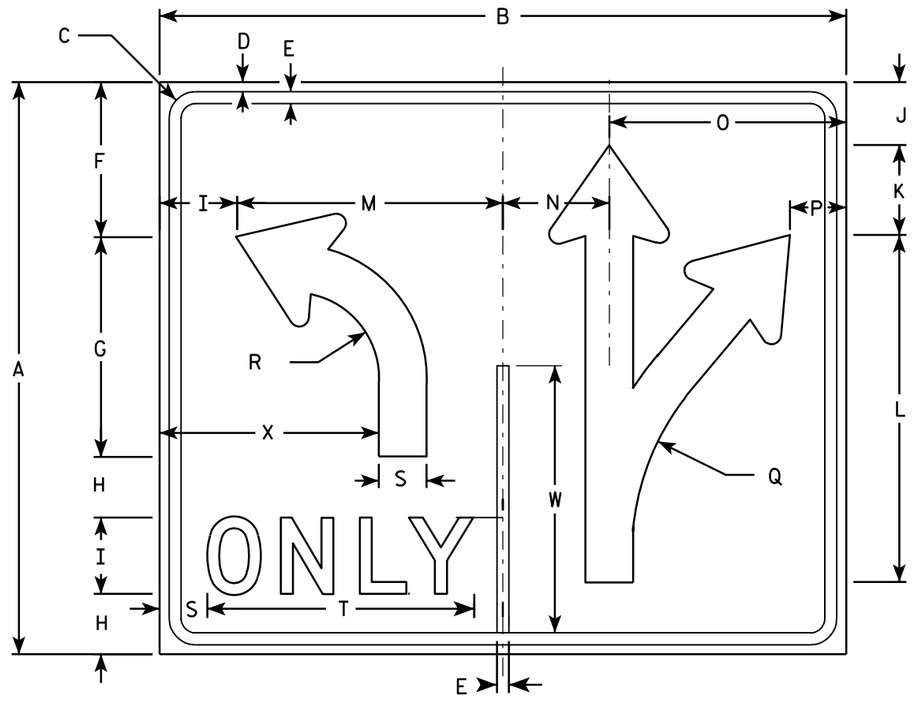
R3-8



ARROW DETAIL

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.



R3-8A

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	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0

STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE		SHEET NO: 166	E

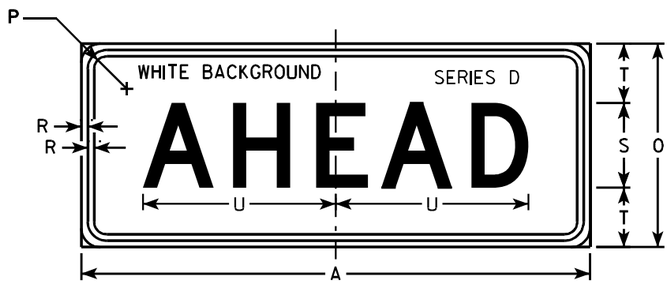
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R38.DGN PLOT DATE : 18-MAR-2011 10:28 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

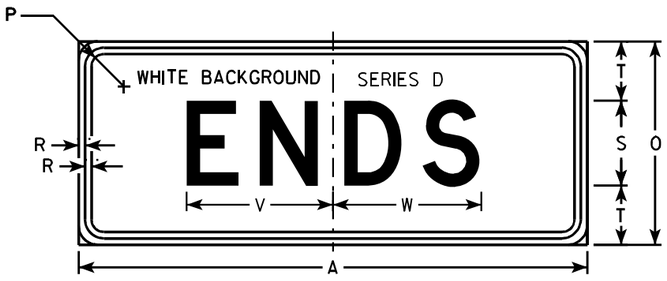
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
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.



R3-17ap



R3-17bp

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	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

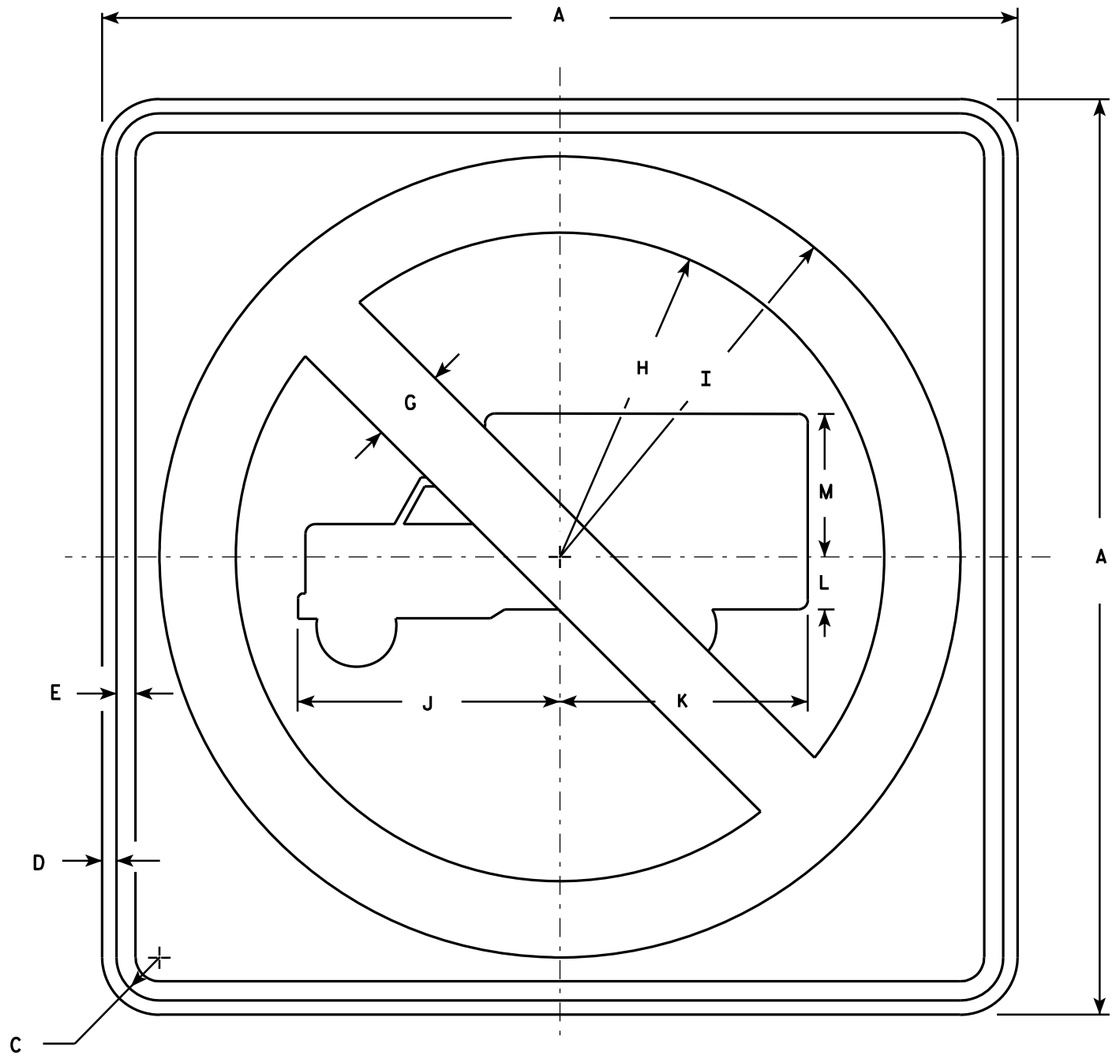
STANDARD SIGN
R3-17 & R3-17a&bp

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO: 4657-25-01	SPENCER STREET	OUTAGAMIE		SHEET 167	E



R5-2

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 - See Note 4
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.
4. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective black.

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	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

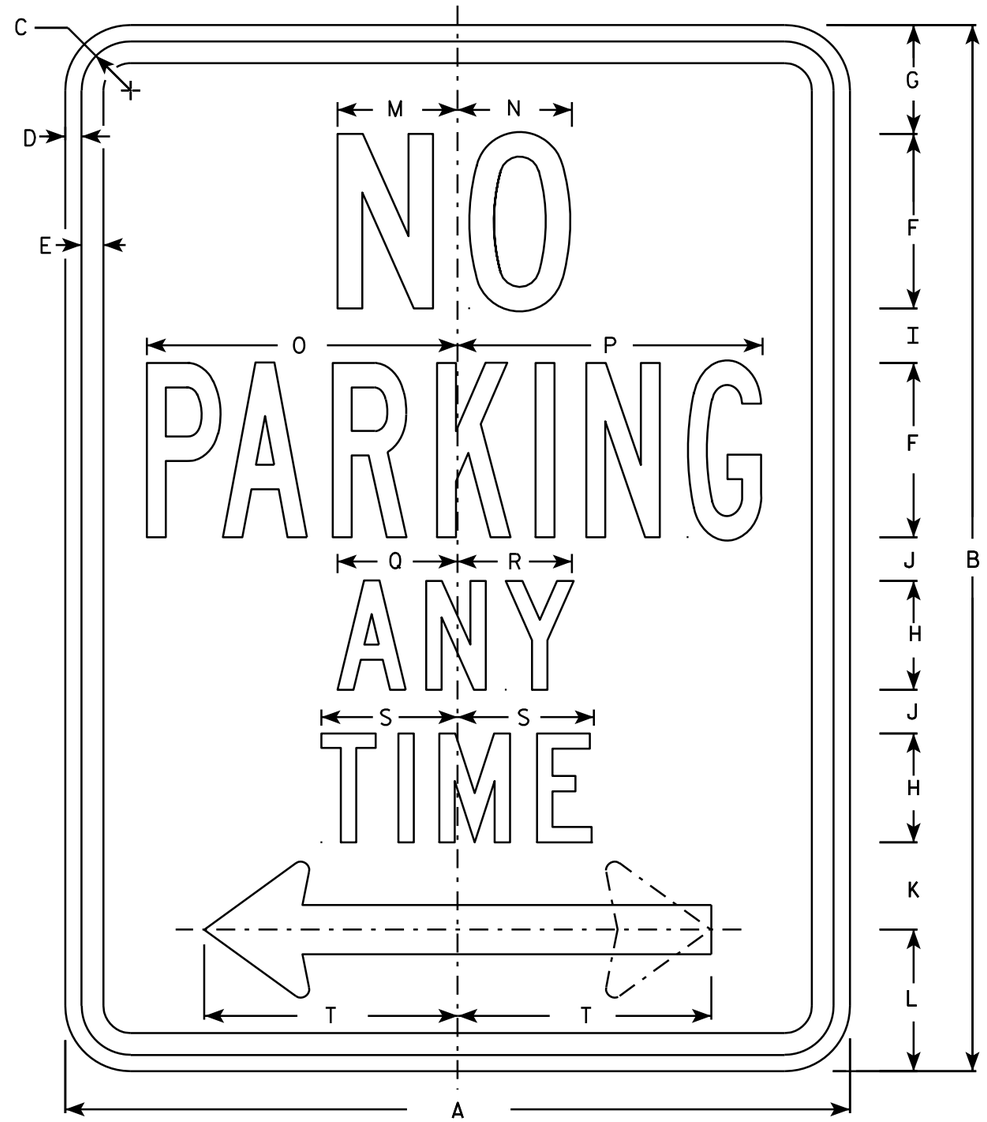
STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

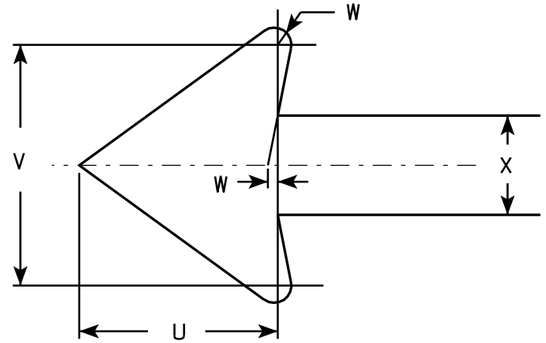
PROJECT NO: 4657-25-01 | HWY: SPENCER STREET | COUNTY: OUTAGAMIE | SHEET NO: 168 | E



R7-1

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 - Red
3. Message Series - See Note 5
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. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

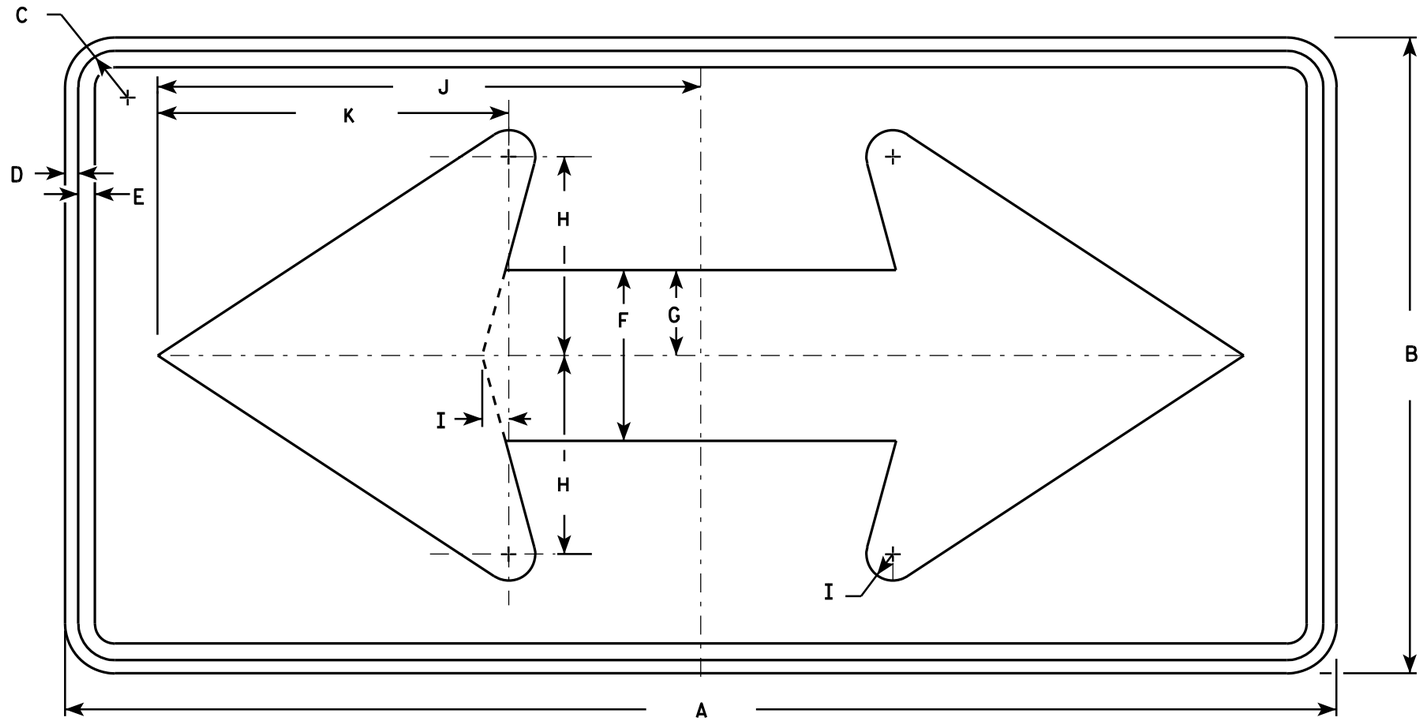
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: 4657-25-01 | HWY: SPENCER STREET | COUNTY: OUTAGAMIE | SHEET 169 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



W1-7

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	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

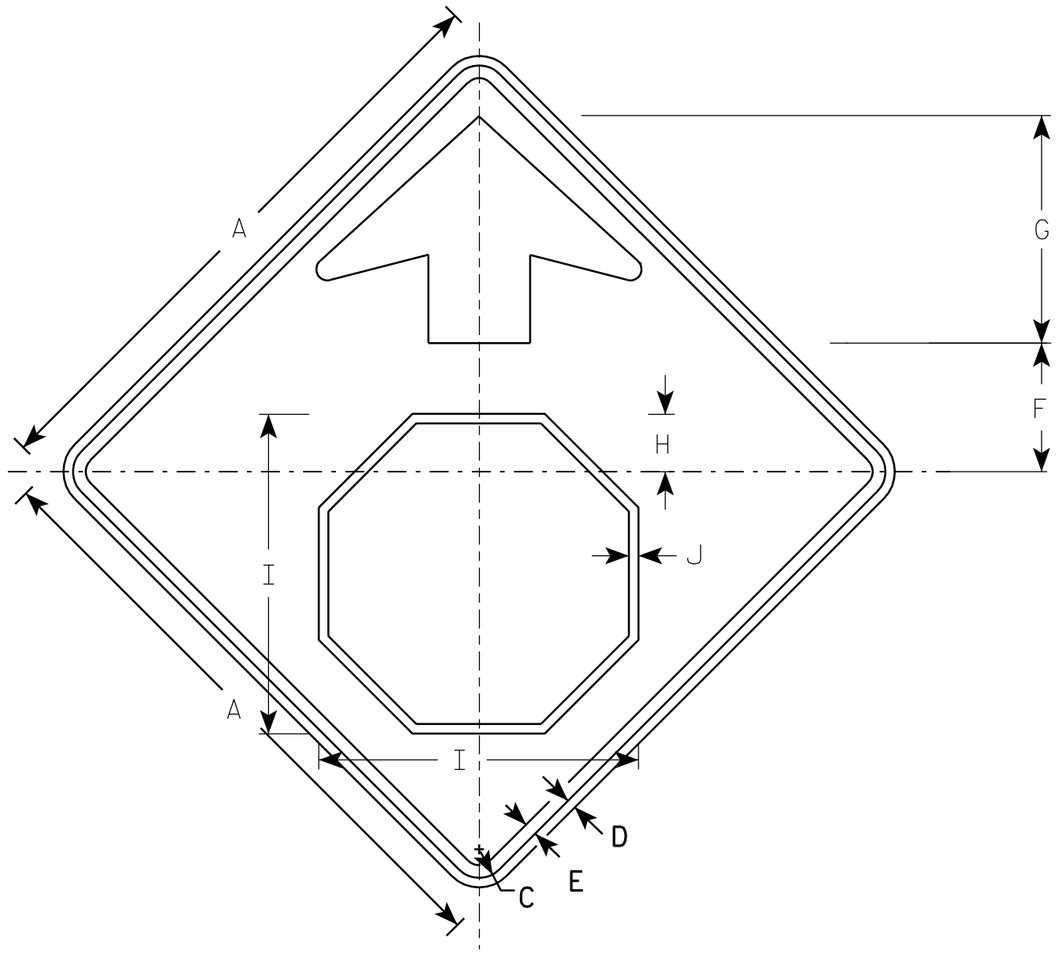
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

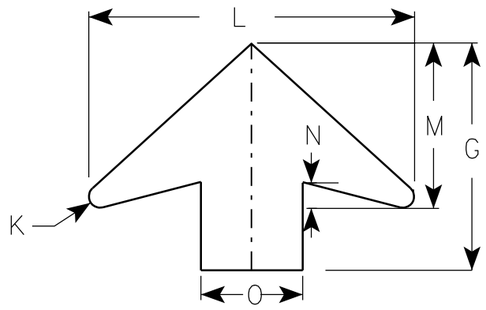
PROJECT NO: 4657-25-01 | HWY: SPENCER STREET | COUNTY: OUTAGAMIE | SHEET NO: 170 | E



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

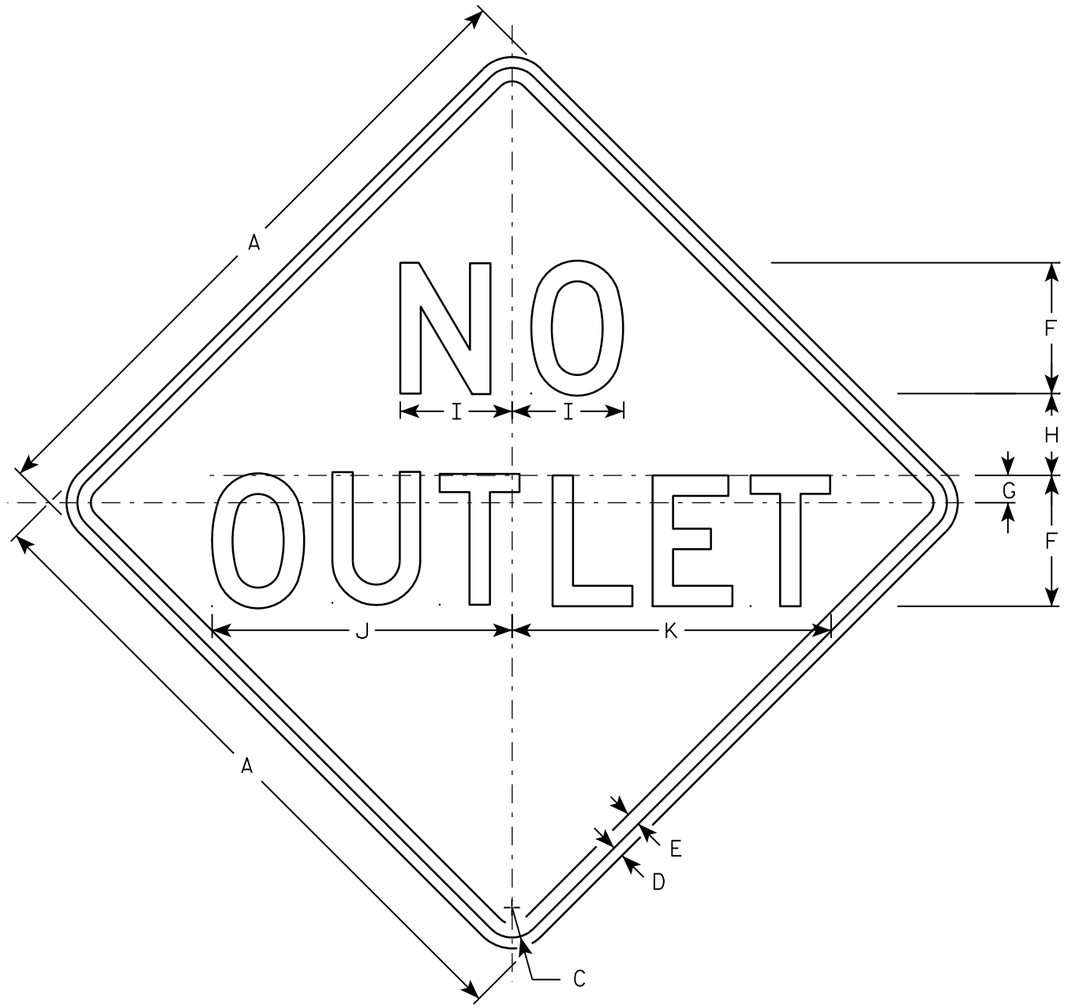
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO: 4657-25-01 | SPENCER STREET | OUTAGAMIE | SHEET NO: 171 | E



W14-2

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. 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.

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	5	1	2 3/4	4 1/8	11 3/4	12 3/8																4.0
2S	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
2M	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
3	36		1 5/8	5/8	3/4	7	1 3/8	4 5/8	6	16 1/8	17 1/8																9.0
4																											
5																											

STANDARD SIGN
W14-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-2.3

PROJECT NO: 4657-25-01	SPENCER STREET	OUTAGAMIE		SHEET NO: 172	E

Spencer Const CL EW Volume							Spencer Const CL EW Volume						
Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)	Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
108+50.00	0.00	0.00	0.00	0.00	0.00	0.00	116+00.00	0.51	198.73	0.47	394.31	193.00	3778.67
109+00.00	0.00	0.00	0.00	0.00	0.00	0.00	116+35.00	0.32	195.37	0.54	255.43	193.54	4034.11
109+50.00	0.00	0.00	0.00	0.00	0.00	0.00	116+50.00	1.13	177.19	0.40	103.49	193.94	4137.60
110+00.00	0.00	0.00	0.00	0.00	0.00	0.00	117+00.00	0.77	195.98	1.76	345.52	195.70	4483.12
110+39.89	65.55	83.14	48.42	61.42	48.42	61.42	117+34.00	1.45	211.48	1.40	256.55	197.10	4739.67
110+50.00	60.52	63.78	23.60	27.51	72.02	88.92	117+50.00	1.31	184.31	0.82	117.27	197.92	4856.94
110+65.00	41.02	60.60	28.20	34.55	100.23	123.47	118+00.00	0.88	205.72	2.02	361.14	199.94	5218.08
110+78.00	11.72	77.57	12.70	33.26	112.92	156.74	118+50.00	1.14	217.11	1.87	391.51	201.81	5609.59
110+87.00	6.49	89.55	3.03	27.85	115.96	184.59	118+74.00	0.00	238.78	0.51	202.62	202.32	5812.21
111+00.00	31.61	89.13	9.17	43.02	125.13	227.60	119+00.00	1.58	224.23	0.76	222.93	203.08	6035.15
111+50.00	18.87	96.08	46.74	171.49	171.88	399.10	119+13.00	1.80	219.78	0.81	106.89	203.89	6142.04
111+60.00	15.45	102.03	6.35	36.68	178.23	435.78	119+41.00	2.20	217.08	2.08	226.52	205.97	6368.56
111+95.00	0.63	130.88	10.42	150.96	188.65	586.74	119+50.00	2.05	213.06	0.71	71.69	206.68	6440.25
112+00.00	0.51	142.30	0.11	25.31	188.76	612.04	120+00.00	2.22	214.53	3.95	395.92	210.63	6836.17
112+15.00	1.23	158.70	0.48	83.61	189.24	695.66	120+31.00	2.18	252.44	2.52	268.08	213.15	7104.25
112+50.00	0.95	170.48	1.42	213.35	190.66	909.01	120+50.00	0.00	228.51	0.77	169.22	213.92	7273.47
112+90.00	0.01	219.06	0.71	288.56	191.37	1197.58	120+60.00	0.00	232.64	0.00	85.40	213.92	7358.87
113+00.00	0.00	223.58	0.00	81.95	191.37	1279.53	121+00.00	0.56	221.01	0.41	336.03	214.33	7694.90
113+50.00	0.43	203.11	0.40	395.09	191.76	1674.62	121+50.00	0.04	224.52	0.55	412.52	214.88	8107.42
114+00.00	0.22	207.52	0.60	380.22	192.36	2054.83	121+69.00	0.00	265.30	0.01	172.35	214.89	8279.77
114+39.00	0.00	254.87	0.16	333.95	192.52	2388.78	122+00.00	0.00	233.41	0.00	286.30	214.89	8566.07
114+50.00	0.00	243.89	0.00	101.60	192.52	2490.38	122+34.07	0.00	217.26	0.00	284.38	214.90	8850.45
115+00.00	0.00	231.96	0.00	440.60	192.52	2930.98	122+50.00	0.00	211.93	0.00	126.58	214.90	8977.02
115+25.00	0.01	260.11	0.00	227.81	192.52	3158.79	123+00.00	0.00	203.04	0.00	384.23	214.90	9361.25
115+50.00	0.00	227.13	0.00	225.57	192.53	3384.36	123+50.00	0.00	232.18	0.00	402.99	214.90	9764.24

Spencer Const CL EW Volume							Spencer Const CL EW Volume						
Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)	Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
123+62.00	0.00	257.84	0.00	108.89	214.90	9873.14	131+40.00	0.50	231.11	0.14	139.16	296.56	15361.93
124+00.00	0.03	210.27	0.02	329.41	214.92	10202.55	131+50.00	0.62	203.99	0.21	80.54	296.77	15442.48
124+50.00	0.56	201.39	0.55	381.17	215.47	10583.72	132+00.00	0.36	213.51	0.91	386.57	297.68	15829.05
125+00.00	0.08	258.03	0.59	425.39	216.06	11009.10	132+50.00	0.76	223.13	1.04	404.30	298.72	16233.34
125+20.00	0.54	204.78	0.23	171.39	216.29	11180.49	132+68.00	0.00	260.07	0.26	161.06	298.98	16394.41
125+44.00	0.35	211.82	0.40	185.18	216.69	11365.67	133+00.00	1.00	230.29	0.60	290.58	299.58	16684.99
125+50.00	0.44	207.31	0.09	46.57	216.78	11412.24	133+50.00	0.00	296.56	0.93	487.82	300.50	17172.81
126+00.00	1.31	184.11	1.63	362.43	218.41	11774.67	134+00.00	0.28	242.09	0.26	498.74	300.76	17671.55
126+50.00	3.08	185.46	4.07	342.19	222.47	12116.86	134+50.00	0.89	228.23	1.08	435.47	301.84	18107.02
126+63.00	0.00	251.31	0.74	105.15	223.21	12222.01	134+89.00	1.24	274.69	1.54	363.22	303.38	18470.24
127+00.00	3.25	174.75	2.23	291.93	225.44	12513.94	135+00.00	1.37	257.06	0.53	108.32	303.91	18578.56
127+43.00	14.41	167.16	14.06	272.27	239.50	12786.20	135+50.00	3.25	182.07	4.28	406.61	308.19	18985.17
127+50.00	6.71	171.05	2.74	43.84	242.24	12830.05	136+00.00	4.48	169.55	7.16	325.57	315.35	19310.74
128+00.00	6.08	159.56	11.85	306.12	254.09	13136.16	136+50.00	7.09	184.70	10.71	328.01	326.06	19638.75
128+17.00	1.94	185.45	2.53	108.61	256.61	13244.78	137+00.00	15.27	192.80	20.70	349.54	346.76	19988.30
128+39.00	3.03	192.32	2.02	153.91	258.64	13398.68	137+50.00	2.68	210.24	16.62	373.19	363.38	20361.49
128+50.00	2.62	172.64	1.15	74.35	259.79	13473.03	138+00.00	3.41	222.75	5.64	400.92	369.02	20762.41
129+00.00	5.67	151.53	7.67	300.17	267.46	13773.19	138+50.00	0.15	230.34	3.30	419.53	372.32	21181.94
129+50.00	5.42	148.42	10.26	277.73	277.72	14050.93	138+67.00	1.08	252.19	0.38	151.91	372.70	21333.85
130+00.00	4.19	159.07	8.90	284.71	286.62	14335.64	139+00.00	11.20	191.65	7.51	271.23	380.21	21605.08
130+18.00	0.16	188.98	1.45	116.01	288.07	14451.65	139+50.00	23.84	172.27	32.45	336.96	412.65	21942.04
130+29.00	2.76	192.57	0.59	77.70	288.66	14529.35	139+93.00	19.74	206.02	34.70	301.23	447.36	22243.27
130+50.00	3.68	176.26	2.51	143.47	291.16	14672.81	140+00.00	19.78	208.47	5.12	53.73	452.48	22296.99
131+00.00	1.33	188.55	4.64	337.78	295.80	15010.59	140+50.00	37.68	149.20	53.20	331.17	505.68	22628.17
131+25.00	0.00	269.76	0.62	212.18	296.42	15222.77	141+00.00	47.77	135.33	79.12	263.45	584.79	22891.62

Spencer Const CL
EW Volume

Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
141+50.00	72.63	113.28	111.48	230.19	696.27	23121.81
141+74.00	38.93	144.51	49.58	114.57	745.85	23236.38
142+00.00	50.28	112.43	42.95	123.71	788.80	23360.09
142+50.00	42.38	114.21	85.80	209.85	874.60	23569.94
142+82.00	19.58	149.35	36.72	156.18	911.31	23726.12
143+00.00	30.48	136.39	16.69	95.24	928.00	23821.37

Spencer Const CL EW Volume							Spencer Const CL EW Volume						
Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)	Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
143+20.00	10.04	170.06	0.00	0.00	0.00	0.00	148+50.00	1.41	216.35	2.39	392.07	102.41	3876.04
143+50.00	11.23	165.73	11.81	186.53	11.81	186.53	148+54.00	1.56	215.82	0.22	32.00	102.63	3908.05
144+00.00	12.32	153.31	21.80	295.41	33.62	481.94	148+75.00	0.91	263.45	0.96	186.35	103.59	4094.40
144+50.00	9.26	166.64	19.98	296.25	53.60	778.19	148+78.01	0.93	262.60	0.10	29.32	103.70	4123.72
144+59.89	7.79	168.63	3.12	61.42	56.72	839.62	149+00.00	9.07	199.16	4.07	188.08	107.77	4311.80
144+74.00	2.00	163.18	2.56	86.71	59.28	926.32	149+50.00	3.15	178.28	11.32	349.48	119.09	4661.28
145+00.00	1.69	167.33	1.78	159.11	61.06	1085.43	150+00.00	8.07	159.84	10.39	313.08	129.49	4974.36
145+41.92	3.21	224.80	3.80	304.41	64.86	1389.84	150+50.00	8.37	173.80	15.22	308.93	144.70	5283.29
145+50.00	2.37	183.40	0.83	61.08	65.70	1450.92	150+75.00	9.87	171.02	8.45	159.67	153.15	5442.96
146+00.00	10.48	182.28	11.90	338.59	77.59	1789.51	150+90.00	2.88	164.09	3.54	93.06	156.69	5536.01
146+21.00	6.04	228.91	6.43	159.91	84.02	1949.42	151+00.00	2.61	159.49	1.02	59.93	157.70	5595.94
146+40.00	7.12	193.17	4.63	148.53	88.65	2097.95	151+27.00	3.14	162.02	2.88	160.77	160.58	5756.71
146+50.00	6.50	192.78	2.52	71.45	91.17	2169.39	151+40.00	3.24	160.44	1.54	77.59	162.12	5834.30
146+65.00	4.72	201.96	3.12	109.66	94.29	2279.05	151+50.45	10.60	164.37	2.68	62.88	164.80	5897.18
146+85.00	2.66	234.62	2.73	161.67	97.02	2440.73	151+75.00	8.62	172.17	8.74	153.00	173.53	6050.18
147+00.00	2.09	236.62	1.32	130.92	98.34	2571.64	152+00.00	7.96	179.41	7.67	162.77	181.21	6212.95
147+09.00	1.11	230.63	0.53	77.86	98.87	2649.50	152+50.00	7.38	167.00	14.20	320.75	195.40	6533.70
147+50.00	0.00	243.70	0.85	360.16	99.72	3009.66	153+00.00	6.40	170.83	12.76	312.80	208.16	6846.51
148+00.00	0.23	240.14	0.22	448.00	99.93	3457.66	153+50.00	6.40	195.38	11.85	339.09	220.01	7185.59
148+03.00	1.34	234.09	0.09	26.32	100.02	3483.97	154+00.00	8.64	183.80	13.93	351.10	233.94	7536.69

9

9

PROJECT NO: 4657-25-01 | HWY: SPENCER STREET | COUNTY: OUTAGAMIE | CROSS SECTIONS: 09-EARTHWORK | SHEET 176 | E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - cut fill east 1

PLOT DATE : 12/19/2018 2:17 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Spencer Const CL EW Volume						
Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
154+25.00	10.61	176.77	8.91	166.94	242.86	7703.63
154+50.00	2.80	177.93	6.21	164.21	249.07	7867.84
154+61.02	2.86	193.79	1.16	75.89	250.22	7943.73
155+00.00	16.36	146.29	13.87	245.46	264.09	8189.18
155+50.00	18.12	146.45	31.93	271.06	296.02	8460.24
156+00.00	17.38	138.70	32.87	264.03	328.89	8724.27
156+31.99	5.37	162.52	13.48	178.44	342.37	8902.71
156+50.00	20.32	137.09	8.57	99.92	350.93	9002.64
156+70.00	43.15	126.67	23.51	97.69	374.44	9100.32
157+00.00	56.86	124.46	55.57	139.52	430.01	9239.84
157+12.94	54.81	126.79	26.77	60.22	456.78	9300.07
157+25.00	75.42	105.05	29.08	51.76	485.85	9351.83
157+50.00	105.44	91.50	83.73	90.99	569.58	9442.82
157+75.98	179.62	71.43	137.17	78.40	706.75	9521.23
158+00.00	200.85	64.28	169.20	60.35	875.96	9581.58
158+22.00	213.38	63.71	168.74	52.13	1044.69	9633.72
158+50.00	172.89	73.30	200.31	71.05	1245.01	9704.77
158+94.07	76.17	110.88	203.26	150.32	1448.27	9855.08
159+00.00	75.75	117.31	16.68	25.06	1464.95	9880.14
159+50.00	79.11	92.66	143.39	194.42	1608.34	10074.56

Spencer Const CL EW Volume						
Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
159+74.00	77.44	92.82	69.57	82.42	1677.90	10156.98
160+00.00	86.76	85.07	79.07	85.66	1756.97	10242.64
160+50.00	80.26	65.25	154.64	139.19	1911.62	10381.83
160+50.00	80.26	65.25	154.64	139.19	1911.62	10381.83
160+68.00	73.37	66.98	24.45	22.32	1936.07	10404.16
160+88.98	41.80	83.69	44.75	58.55	1980.82	10462.71
161+00.00	40.43	77.61	16.78	32.91	1997.60	10495.62
161+09.01	71.94	64.58	18.74	23.71	2016.34	10519.34
161+50.00	62.84	70.52	102.31	102.56	2118.66	10621.90
162+00.00	43.72	86.03	98.67	144.96	2217.32	10766.86
162+18.00	21.89	104.36	21.86	63.45	2239.19	10830.31
162+44.00	43.72	94.04	31.59	95.54	2270.78	10925.86
162+50.00	41.22	90.17	9.44	20.47	2280.22	10946.33
163+00.00	42.28	83.13	77.31	160.46	2357.53	11106.79
163+25.00	21.64	91.55	29.59	80.87	2387.12	11187.66
163+50.00	14.20	91.97	16.59	84.97	2403.71	11272.63
164+00.00	8.52	90.51	21.04	168.96	2424.75	11441.59

SPENCER STREET CUT FILL TOTAL VOLUMES		
STATION	CUMULATIVE FILL (CY)	CUMULATIVE CUT (CY)
108+50 - 143+00	933.93	23545.97
143+50 - 164+00	2413.49	11586.96
SPENCER TOTAL	3347.42	35132.93

9

9

PROJECT NO: 4657-25-01 | HWY: SPENCER STREET | COUNTY: OUTAGAMIE | CROSS SECTIONS: 09-EARTHWORK | SHEET 178 | E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - cut fill east 3

PLOT DATE : 12/19/2018 2:17 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Long Ct West
EW Volume

Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
10+40.00	0.00	211.77	0.00	0.00	0.00	0.00
10+50.00	0.00	191.12	0.00	74.61	0.00	74.61
11+00.00	0.00	177.49	0.00	341.31	0.00	415.91
11+50.00	0.00	97.76	0.00	254.87	0.00	670.78
11+73.70	0.01	106.88	0.00	89.81	0.00	760.60
12+00.00	0.00	93.43	0.00	97.56	0.01	858.16
12+12.05	0.00	0.00	0.00	20.85	0.01	879.01

Wild Rose Ln
EW Volume

Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
9+00.00	0.00	66.68	0.00	0.00	0.00	0.00
9+38.32	0.02	115.26	0.01	129.10	0.01	129.10
9+50.00	0.00	132.78	0.00	53.67	0.02	182.77
9+60.21	0.00	151.73	0.00	53.80	0.02	236.57
9+66.94	0.00	190.04	0.00	42.59	0.02	279.16
9+74.76	0.00	0.00	0.00	27.52	0.02	306.67

Misty Ln
EW Volume

Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
10+50.00	0.09	69.44	0.00	0.00	0.00	0.00
10+90.00	0.00	34.20	0.07	76.77	0.07	76.77
11+00.00	0.00	34.26	0.00	12.68	0.07	89.45
11+10.00	0.00	32.09	0.00	12.29	0.07	101.74
11+25.00	0.00	0.00	0.00	8.91	0.07	110.65

Long Ct East
EW Volume

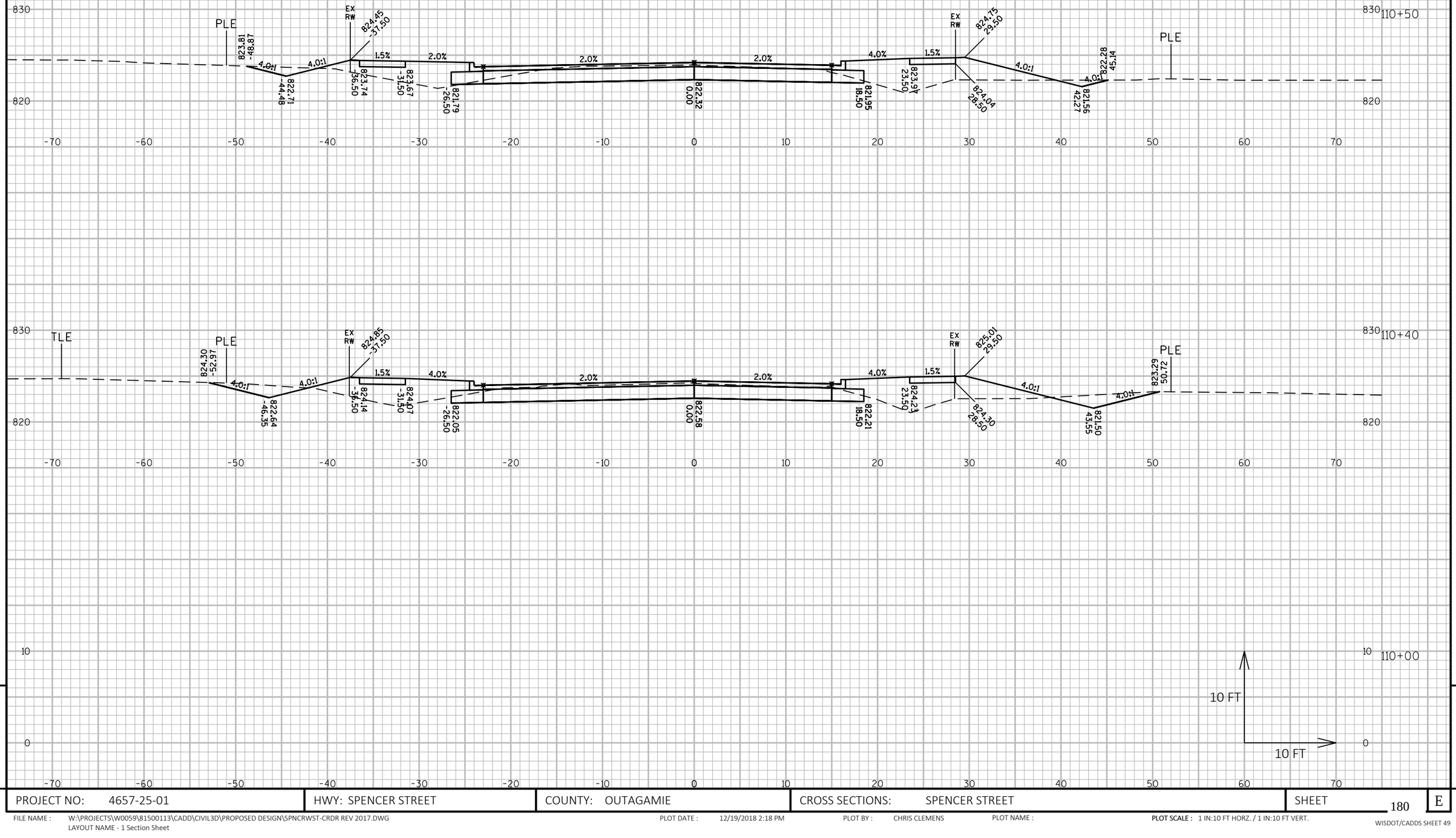
Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
10+50.00	0.00	156.77	0.00	0.00	0.00	0.00
10+75.00	0.00	166.38	0.00	150.65	0.00	150.65
11+00.00	0.00	148.50	0.00	145.78	0.00	296.43
11+25.00	0.00	111.81	0.00	120.51	0.00	416.94
11+50.00	0.00	75.58	0.00	86.08	0.00	503.02
11+60.16	0.00	0.00	0.00	14.22	0.00	517.24
11+84.92	0.00	0.00	0.00	0.00	0.00	517.24

Goldenrod Dr
EW Volume

Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
8+95.00	0.00	53.71	0.00	0.00	0.00	0.00
9+25.00	0.00	61.17	0.00	63.82	0.00	63.82
9+50.00	0.00	101.74	0.00	75.42	0.00	139.24
9+60.00	0.09	123.13	0.02	41.64	0.02	180.89
9+68.48	0.00	162.54	0.01	44.84	0.03	225.72

Maple Hill Dr
EW Volume

Station	Fill Area (SF)	Cut Area (SF)	Fill Volume (CY)	Cut Volume (CY)	Cumulative Fill Vol (CY)	Cumulative Cut (CY)
10+50.00	0.00	148.47	0.00	0.00	0.00	0.00
10+75.00	0.00	138.25	0.00	132.74	0.00	132.74
11+00.00	0.00	97.21	0.00	109.01	0.00	241.75
11+25.00	0.86	59.77	0.40	72.67	0.40	314.42
11+50.00	2.17	50.44	1.40	51.02	1.80	365.44
11+52.90	0.00	0.00	0.12	2.71	1.92	368.15
11+65.45	0.00	0.00	0.00	0.00	1.92	368.15



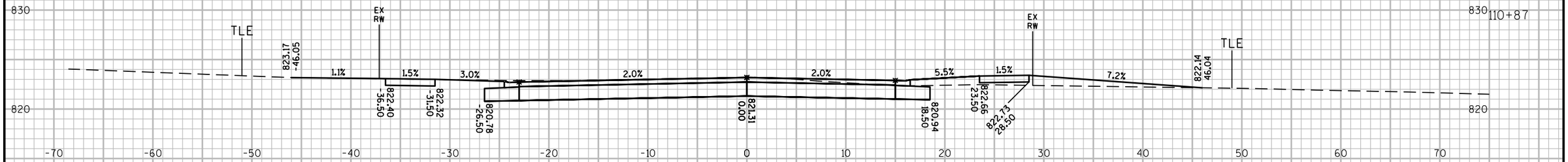
9

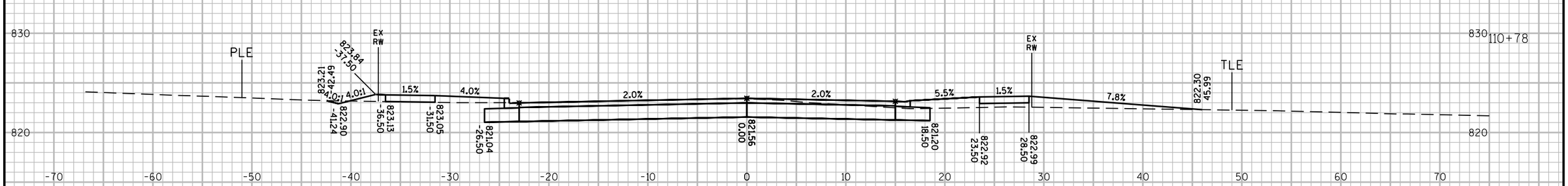
9

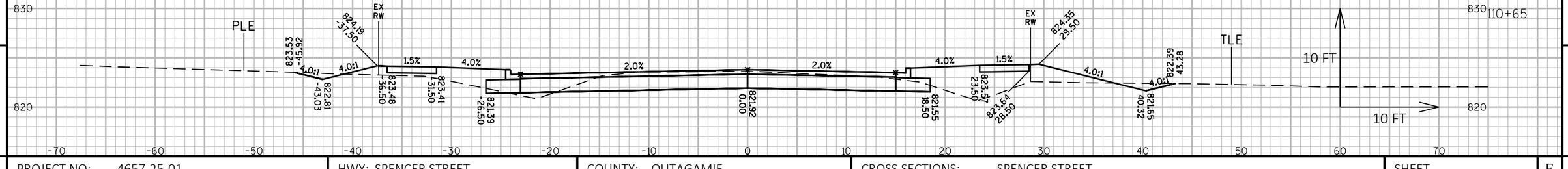
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 180	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 1 Section Sheet

PLOT DATE : 12/19/2018 2:18 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.







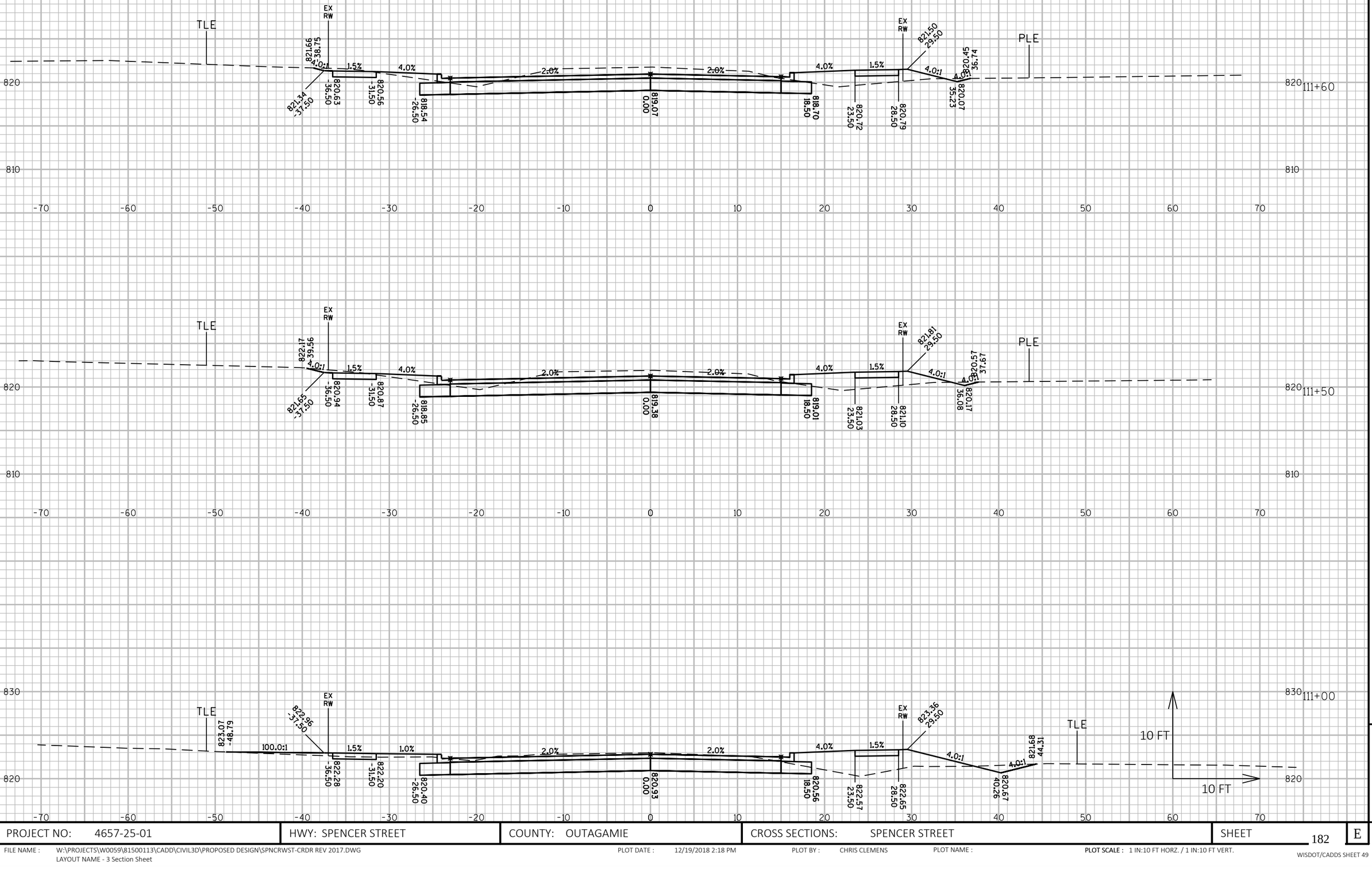
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 181	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 2 Section Sheet

PLOT DATE : 12/19/2018 2:18 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

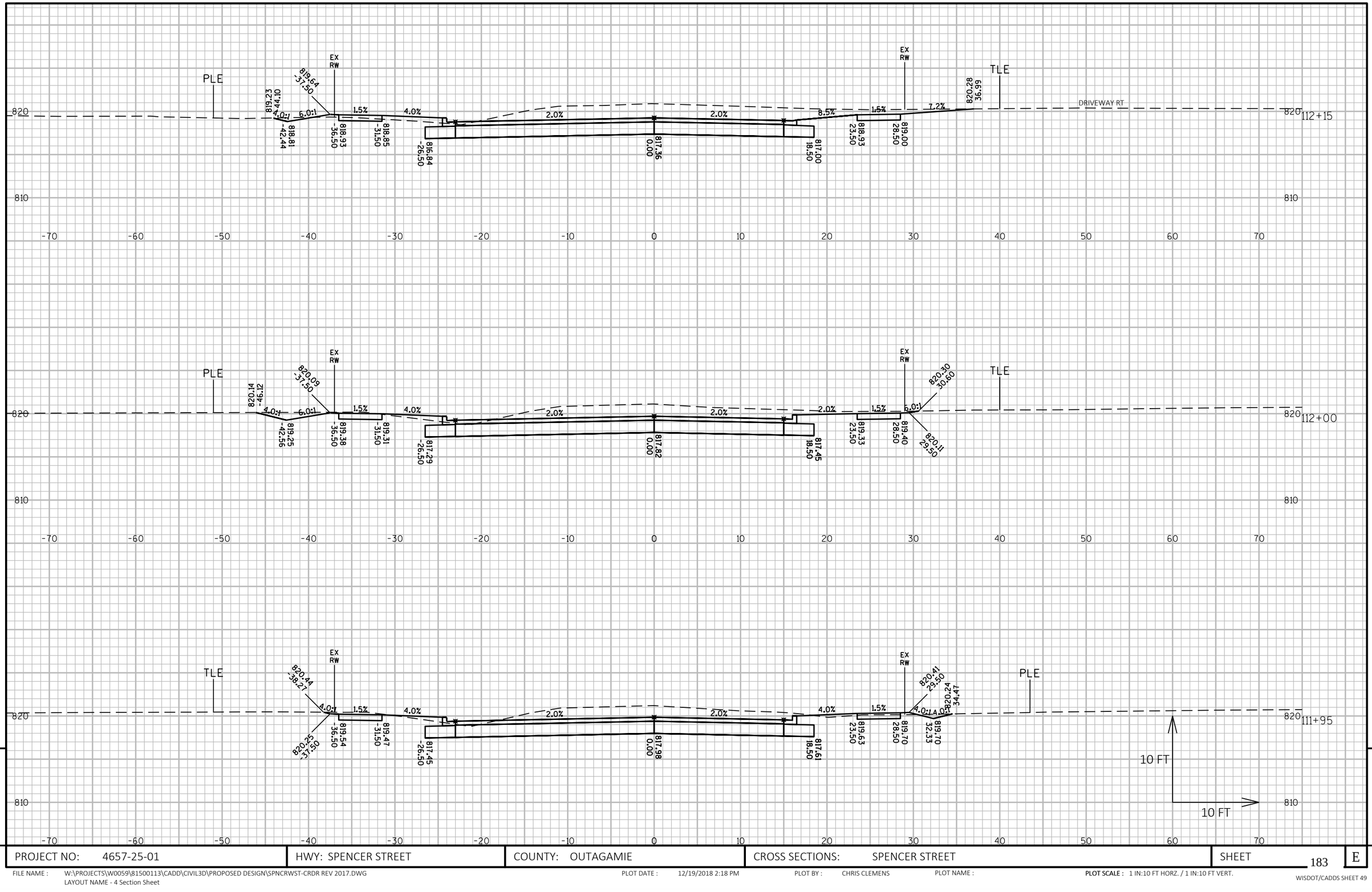
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 182	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 3 Section Sheet

PLOT DATE : 12/19/2018 2:18 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



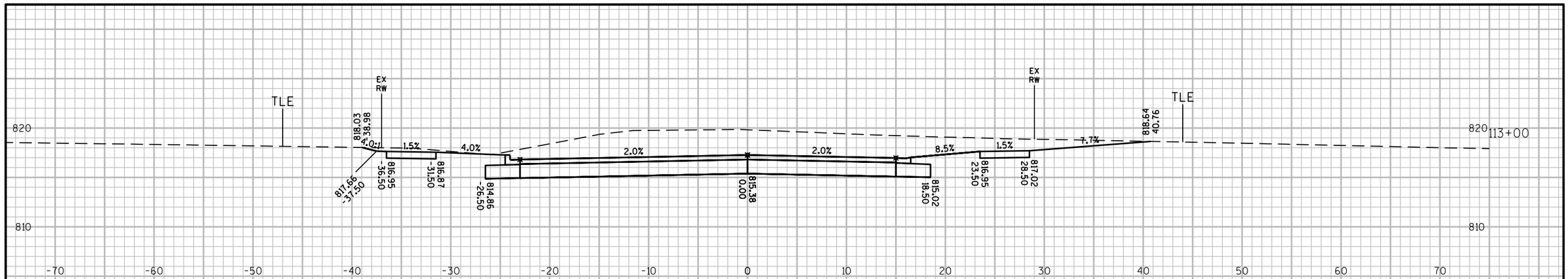
9

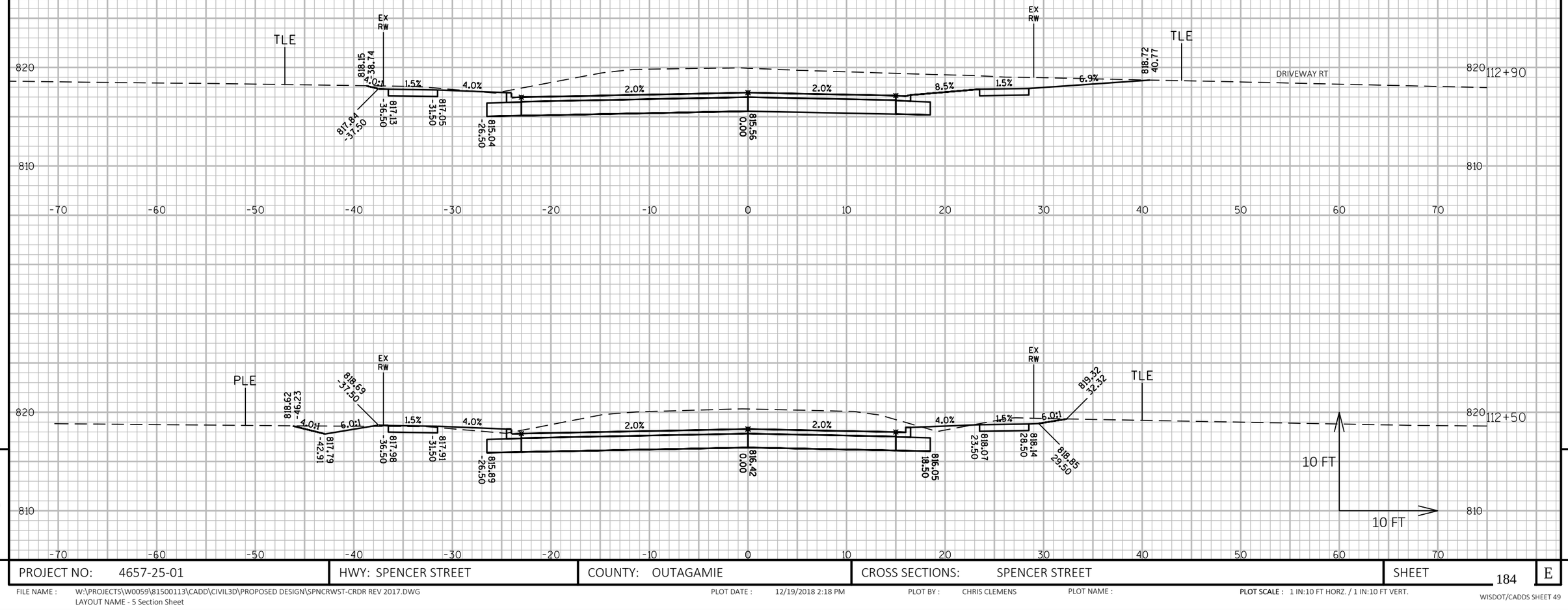
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 183	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 4 Section Sheet

PLOT DATE : 12/19/2018 2:18 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.





9

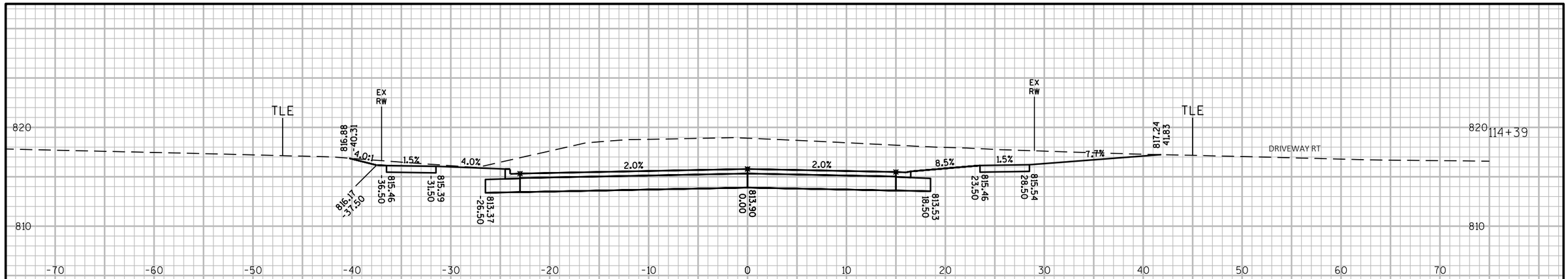
9

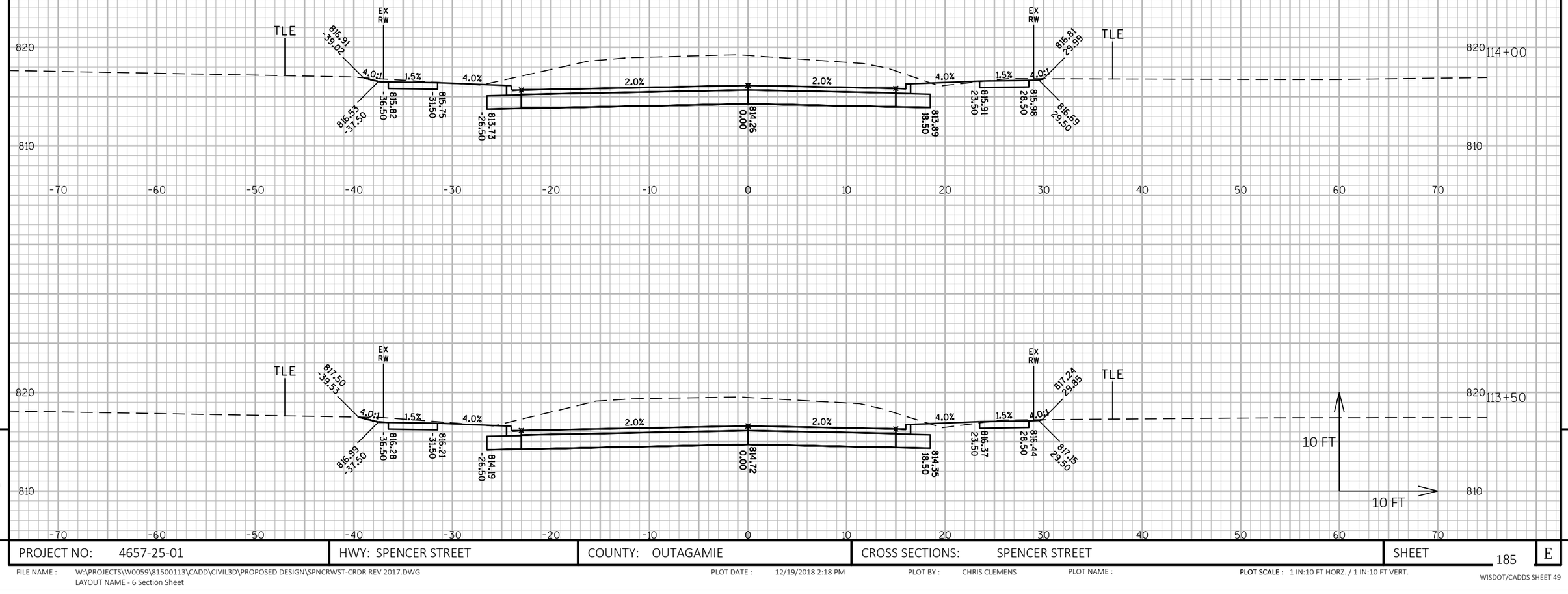
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 184	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 5 Section Sheet

PLOT DATE : 12/19/2018 2:18 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

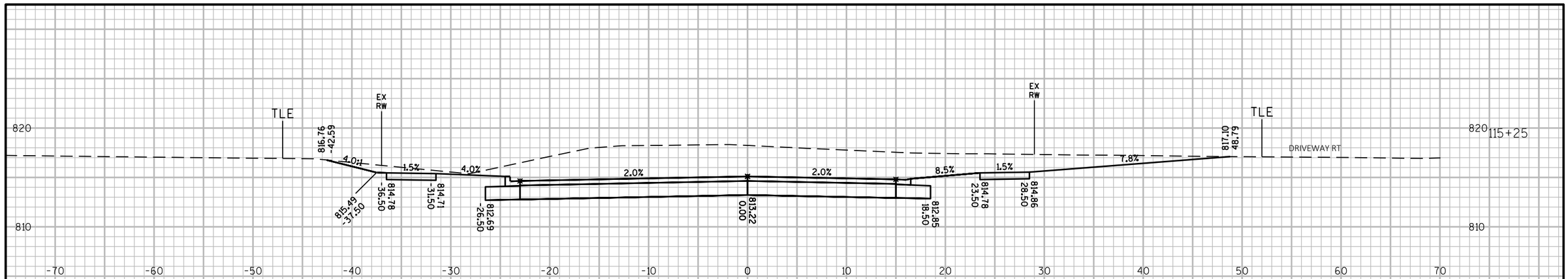
9

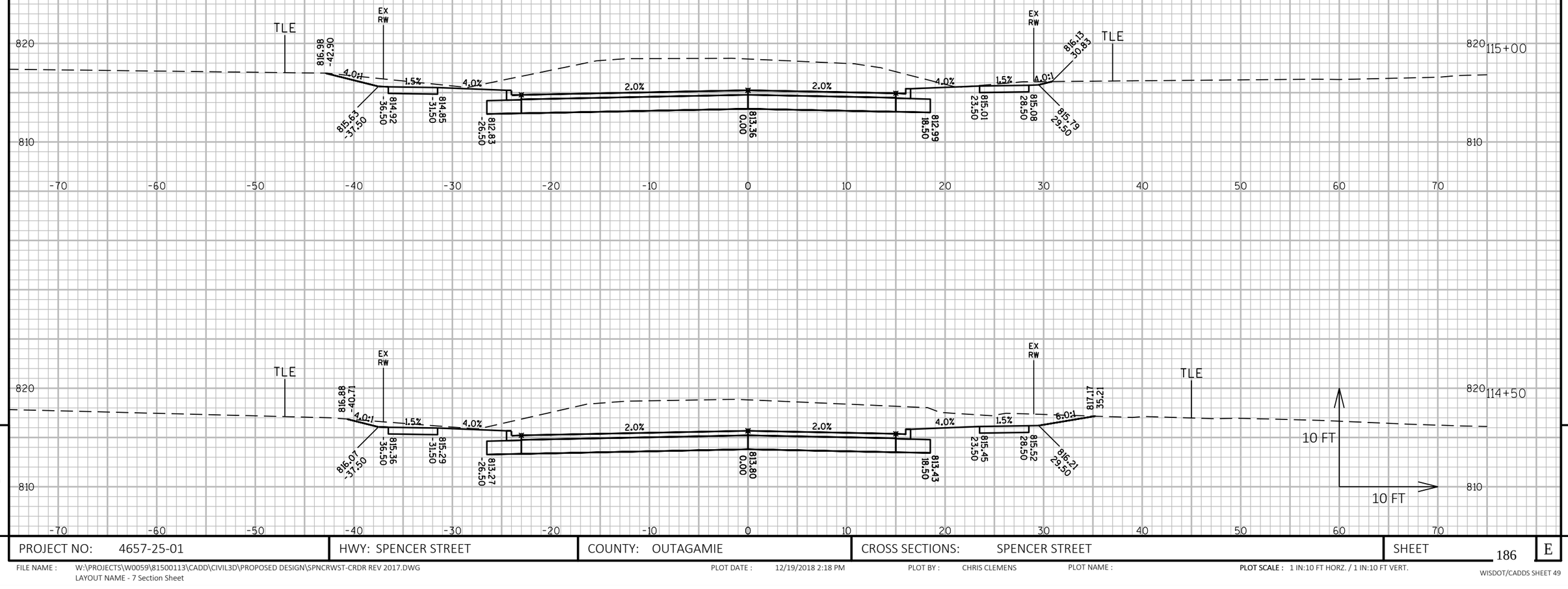
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 185	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 6 Section Sheet

PLOT DATE : 12/19/2018 2:18 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

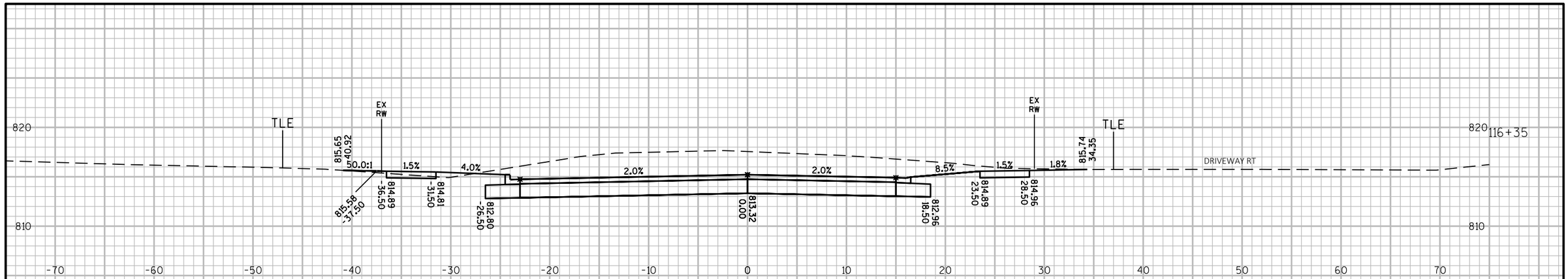
9

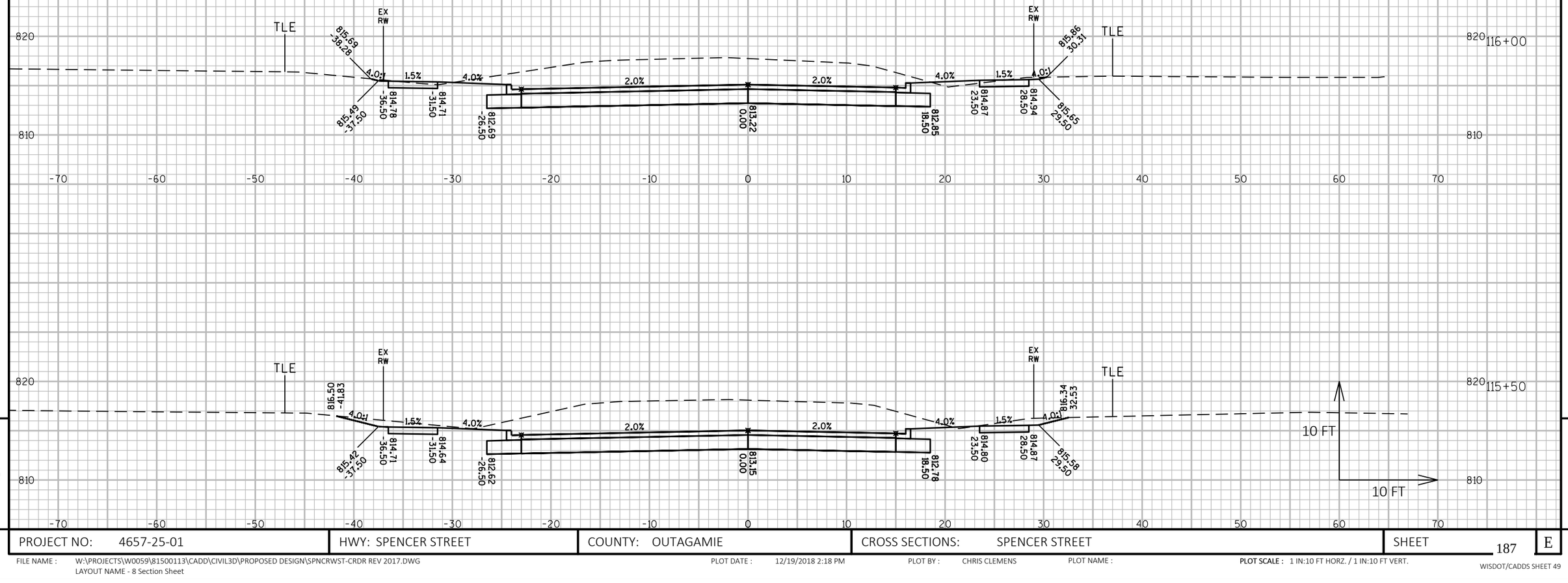
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 186	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 7 Section Sheet

PLOT DATE : 12/19/2018 2:18 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



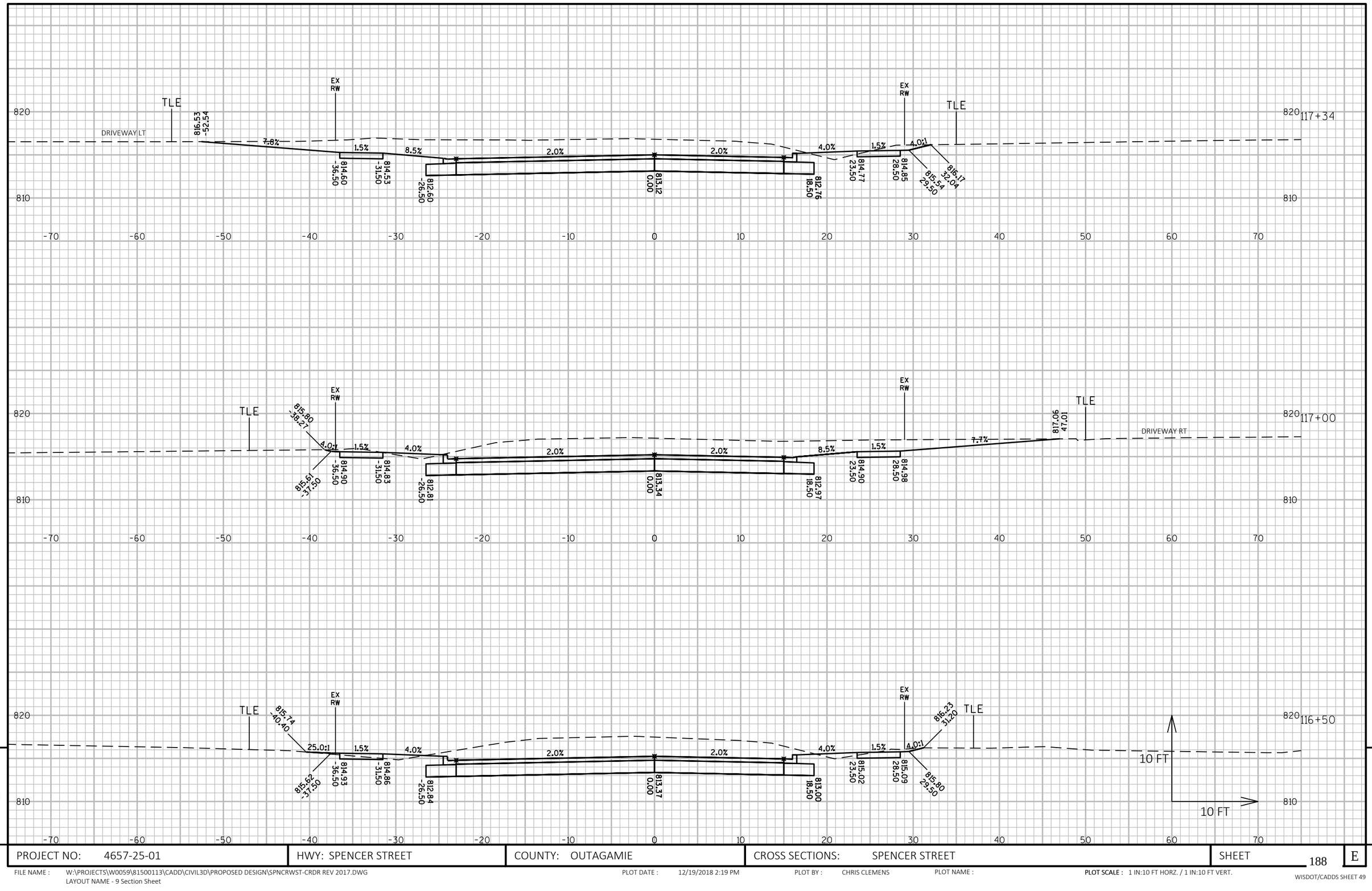


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 187	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 8 Section Sheet

PLOT DATE : 12/19/2018 2:18 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

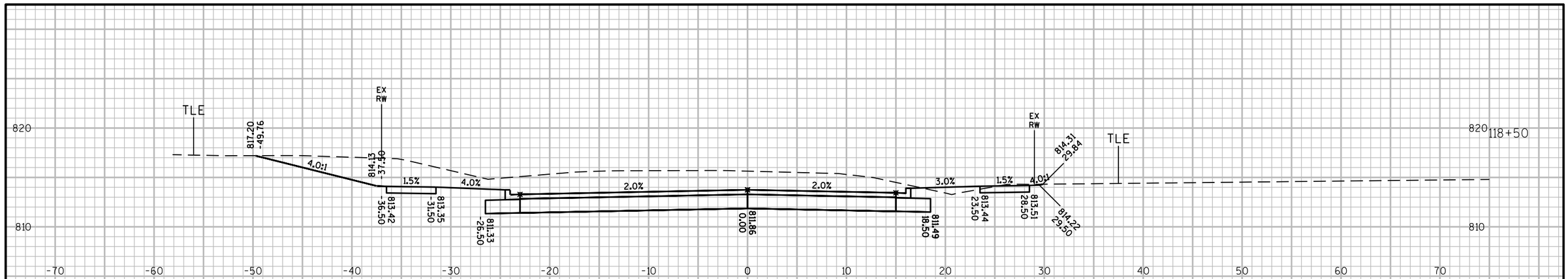
9

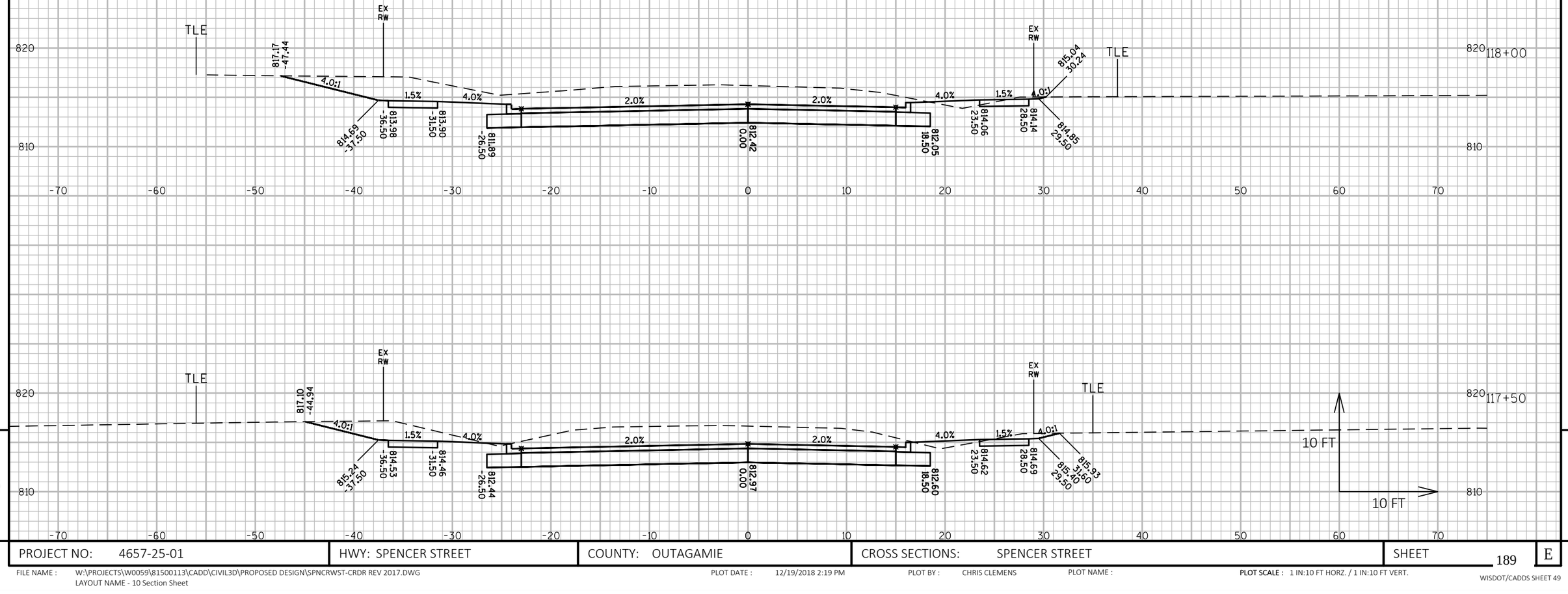
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 188	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 9 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

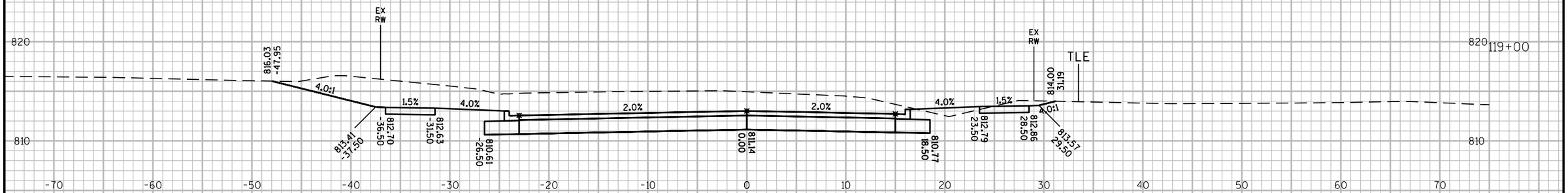
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 189	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 10 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



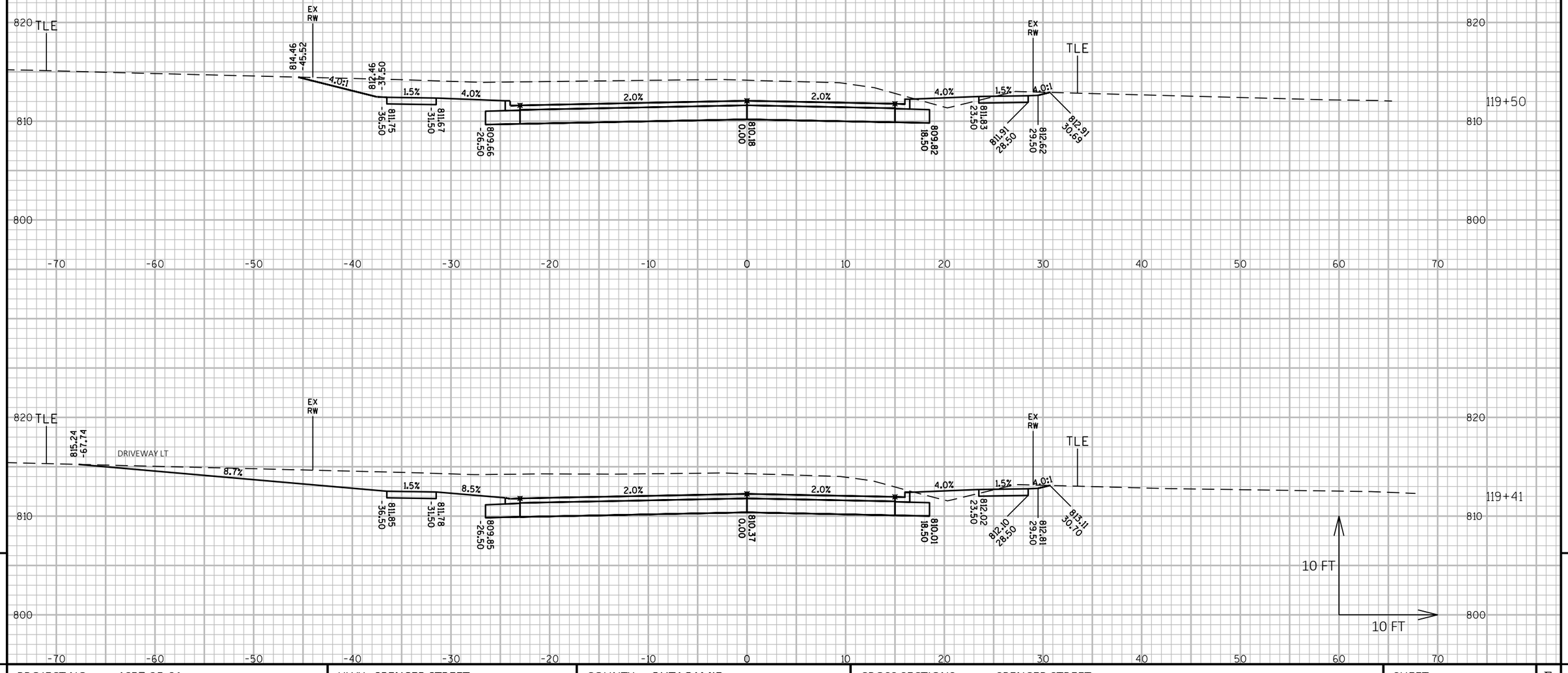
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 190	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 11 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

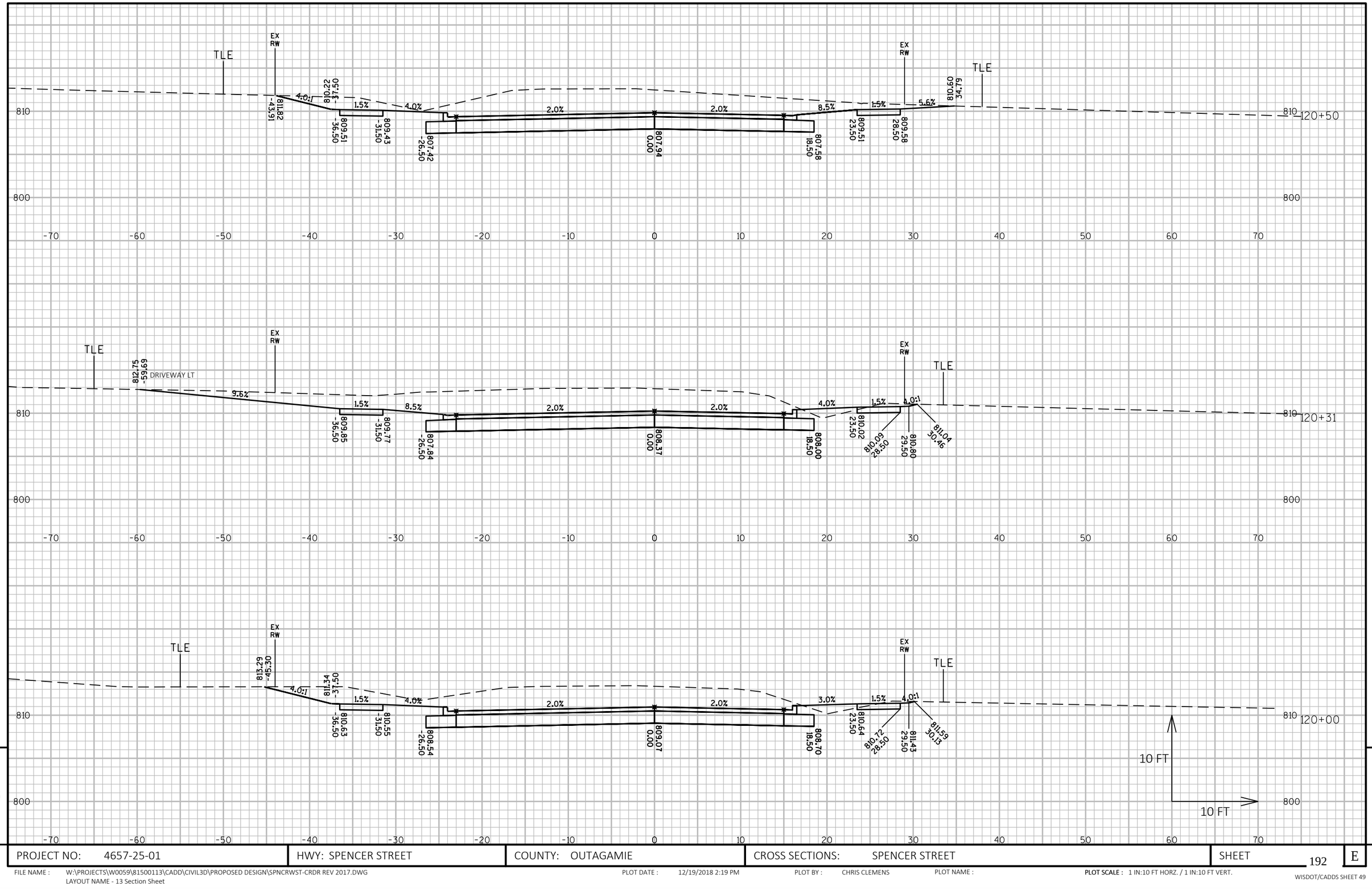


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 191	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 12 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

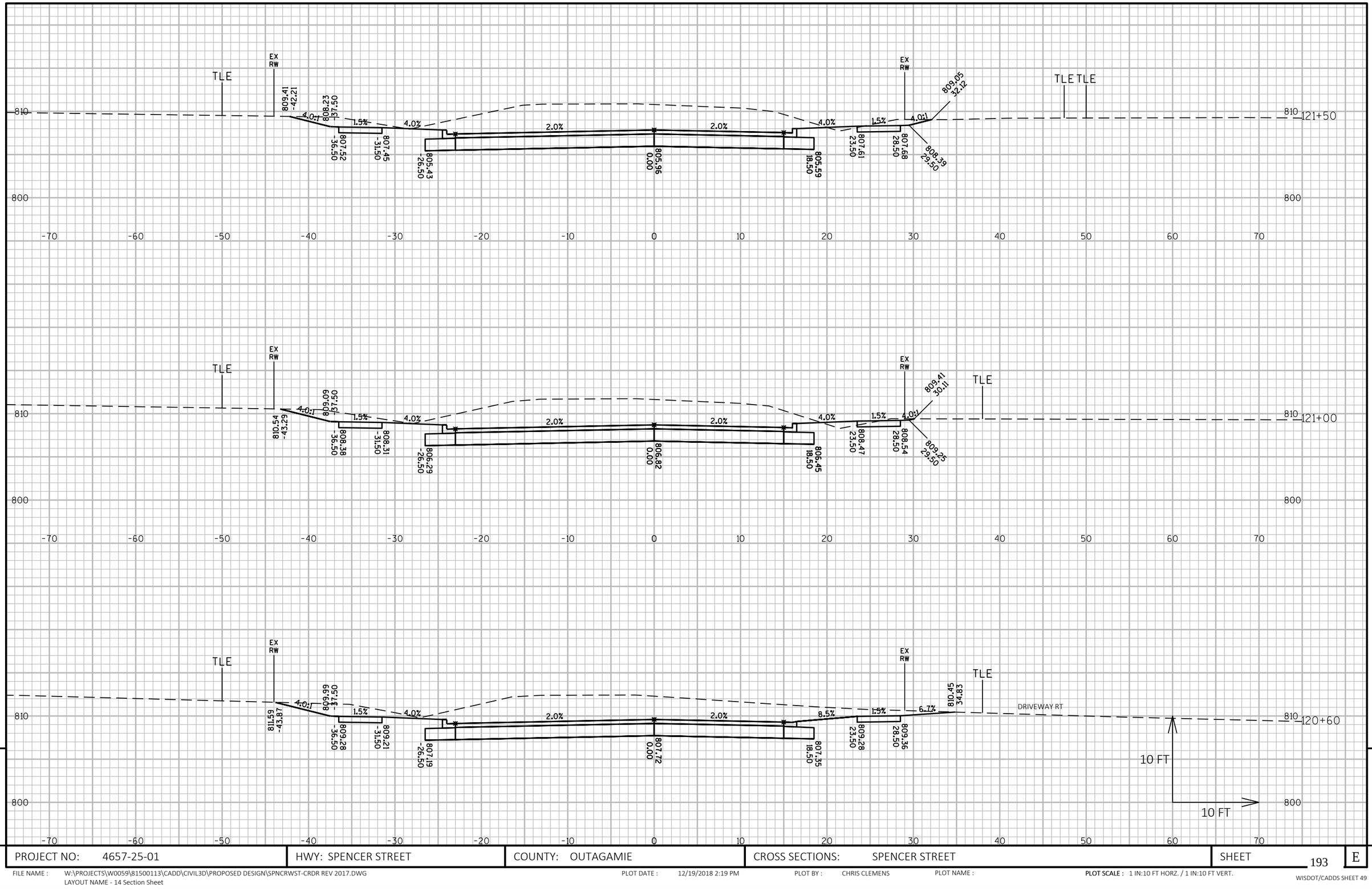


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 192	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 13 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

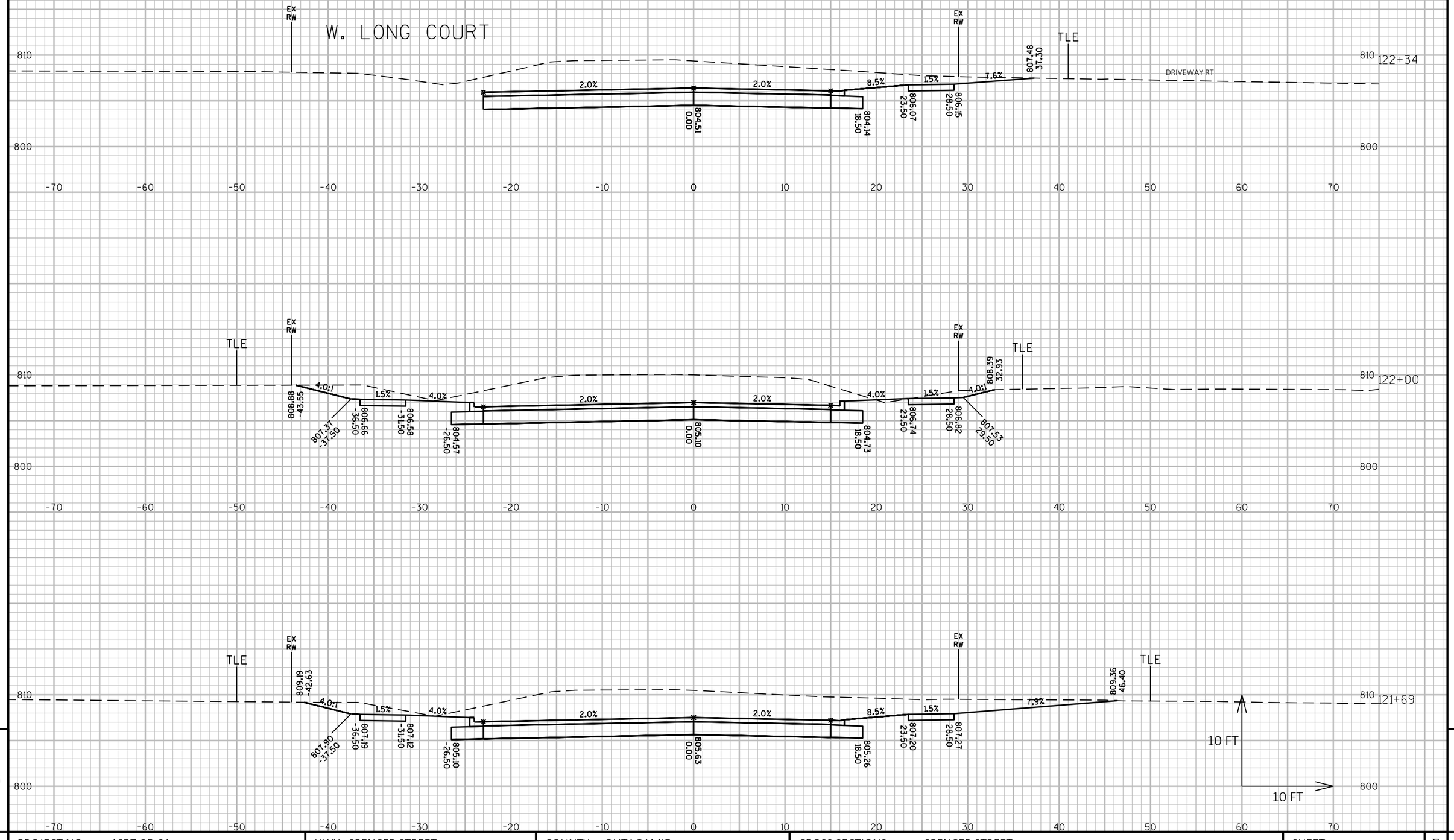
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 193	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 14 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



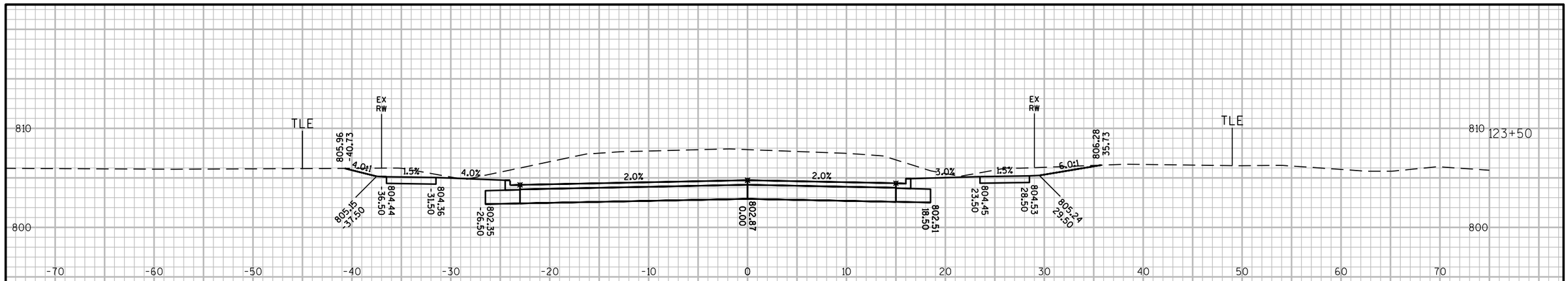
9

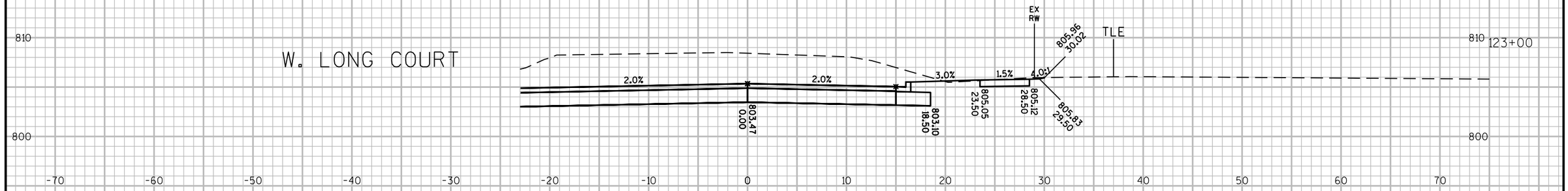
9

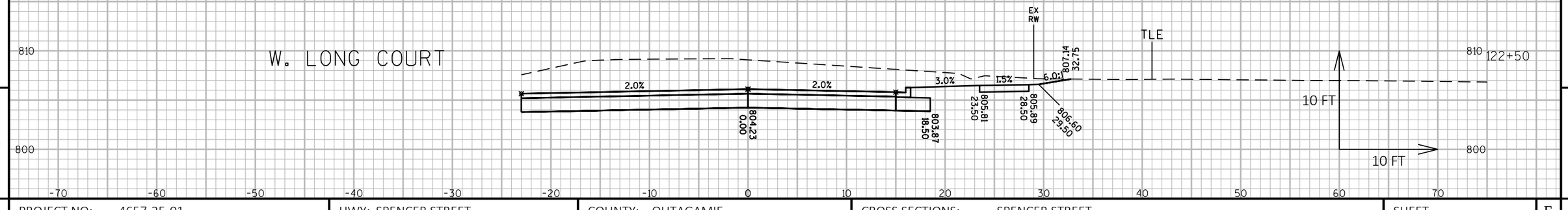
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 194	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 15 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.







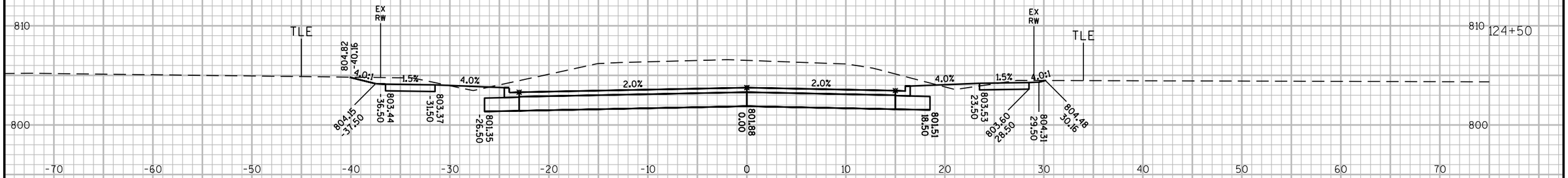
9 9

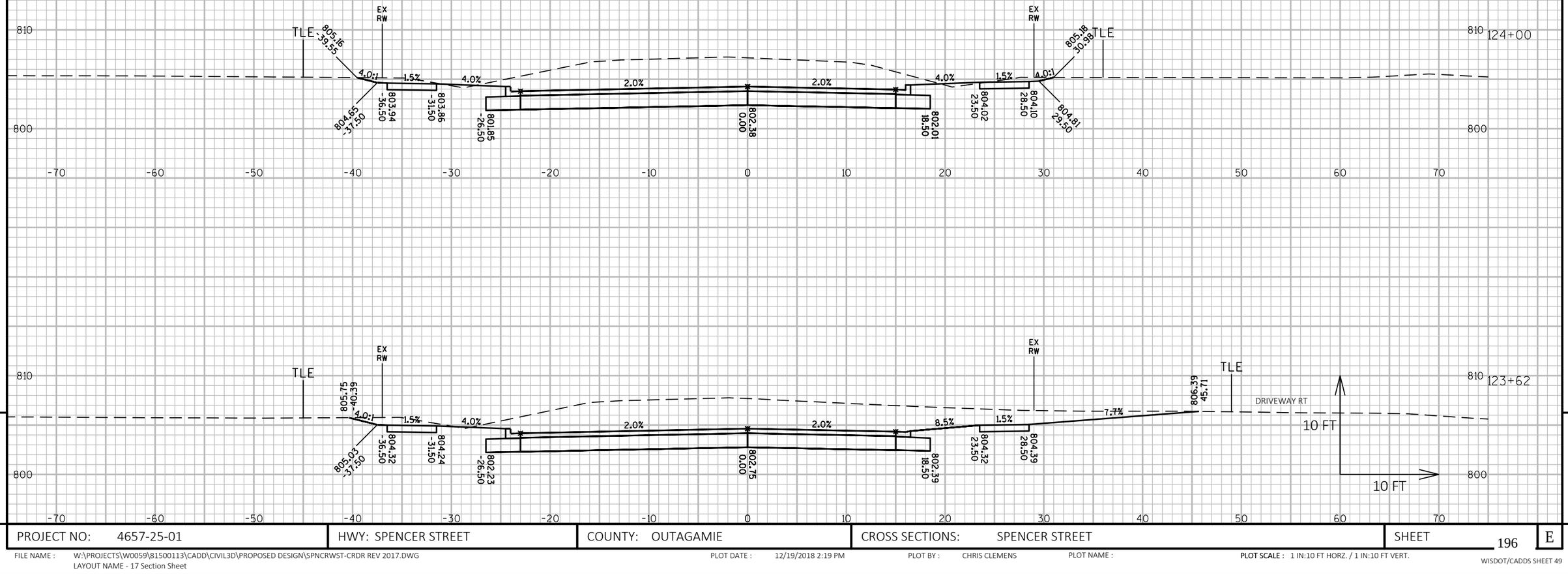
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 195	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 16 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 196	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 17 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

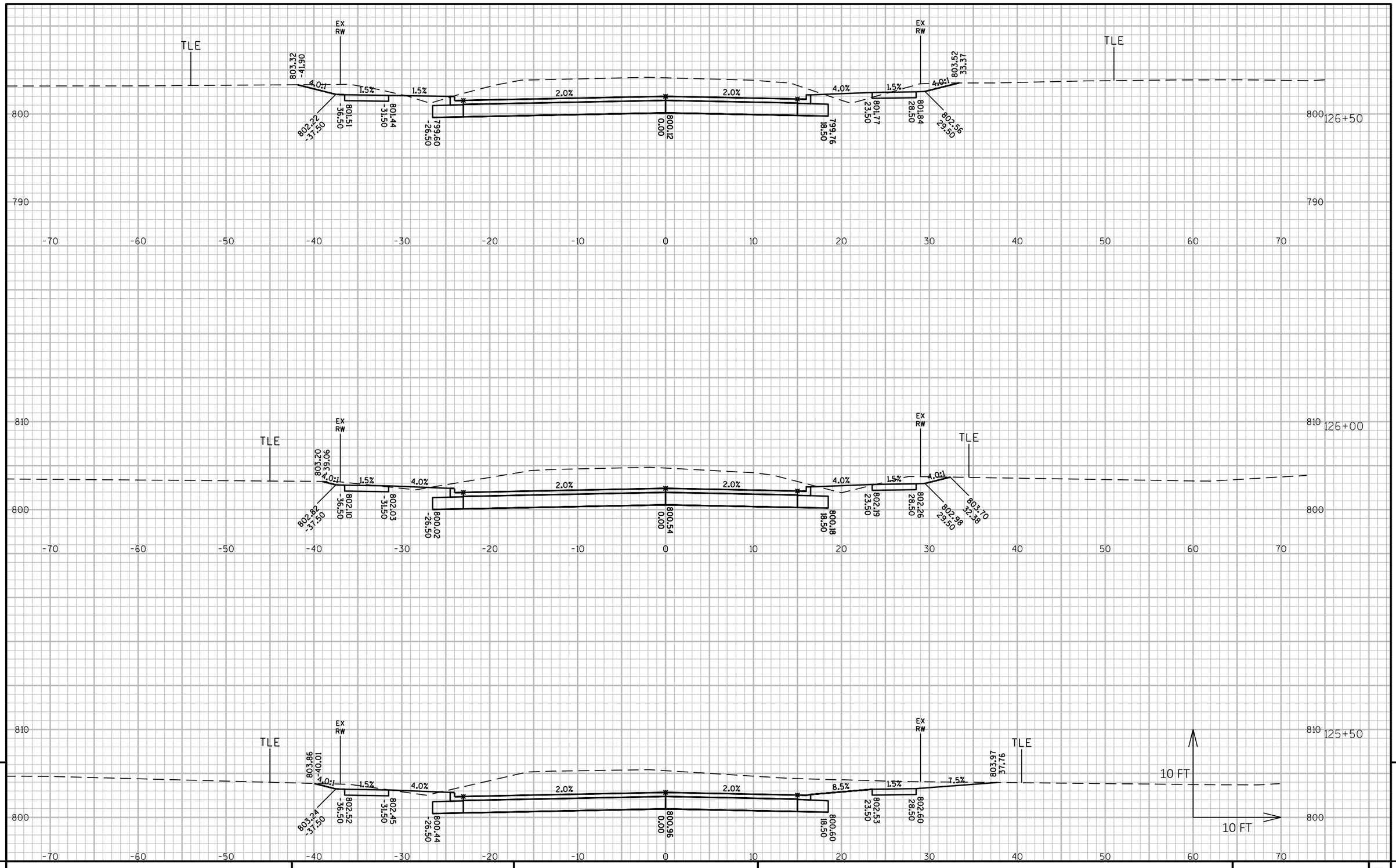
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 197	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 18 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

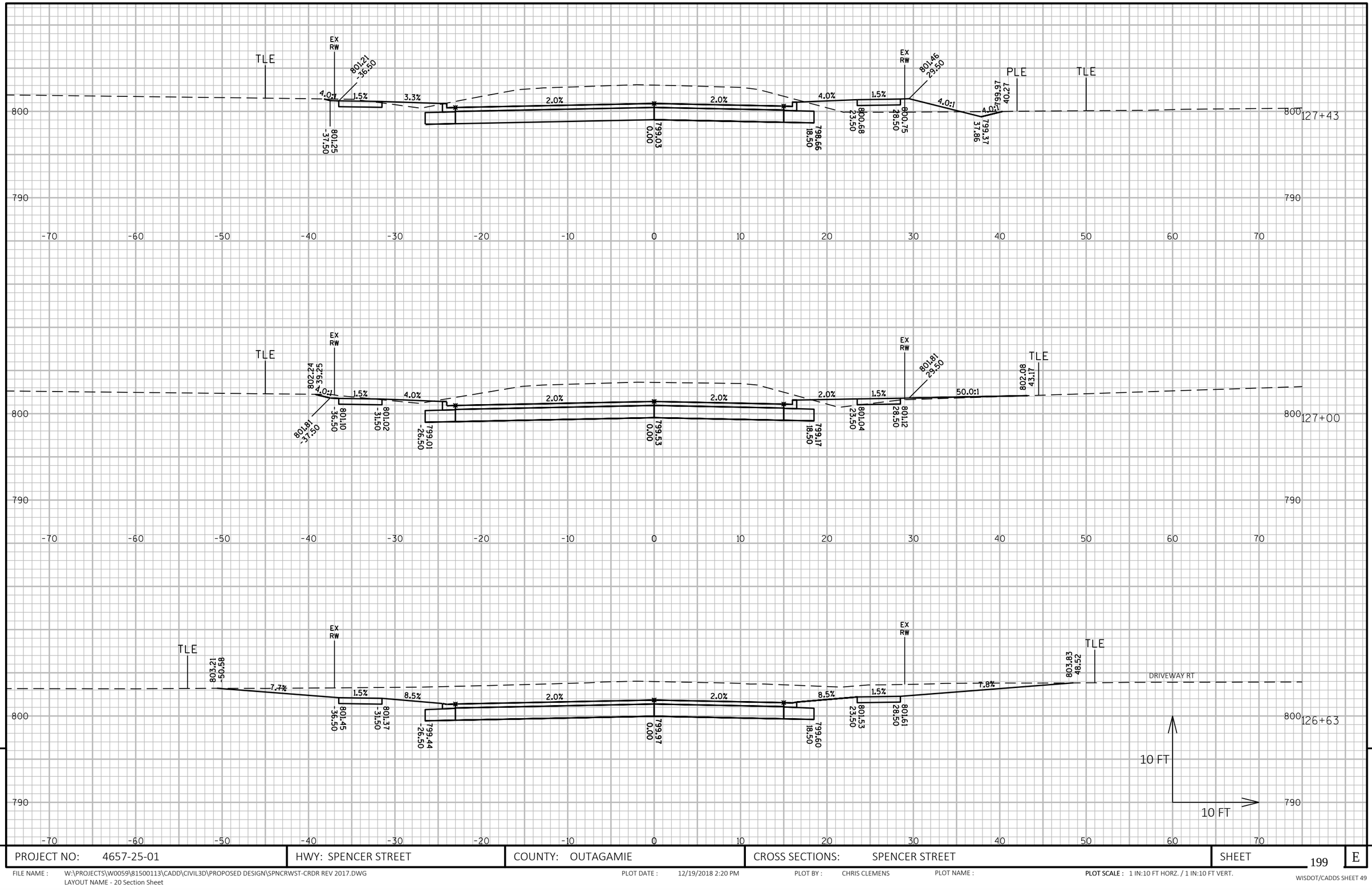
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 198	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 19 Section Sheet

PLOT DATE : 12/19/2018 2:19 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

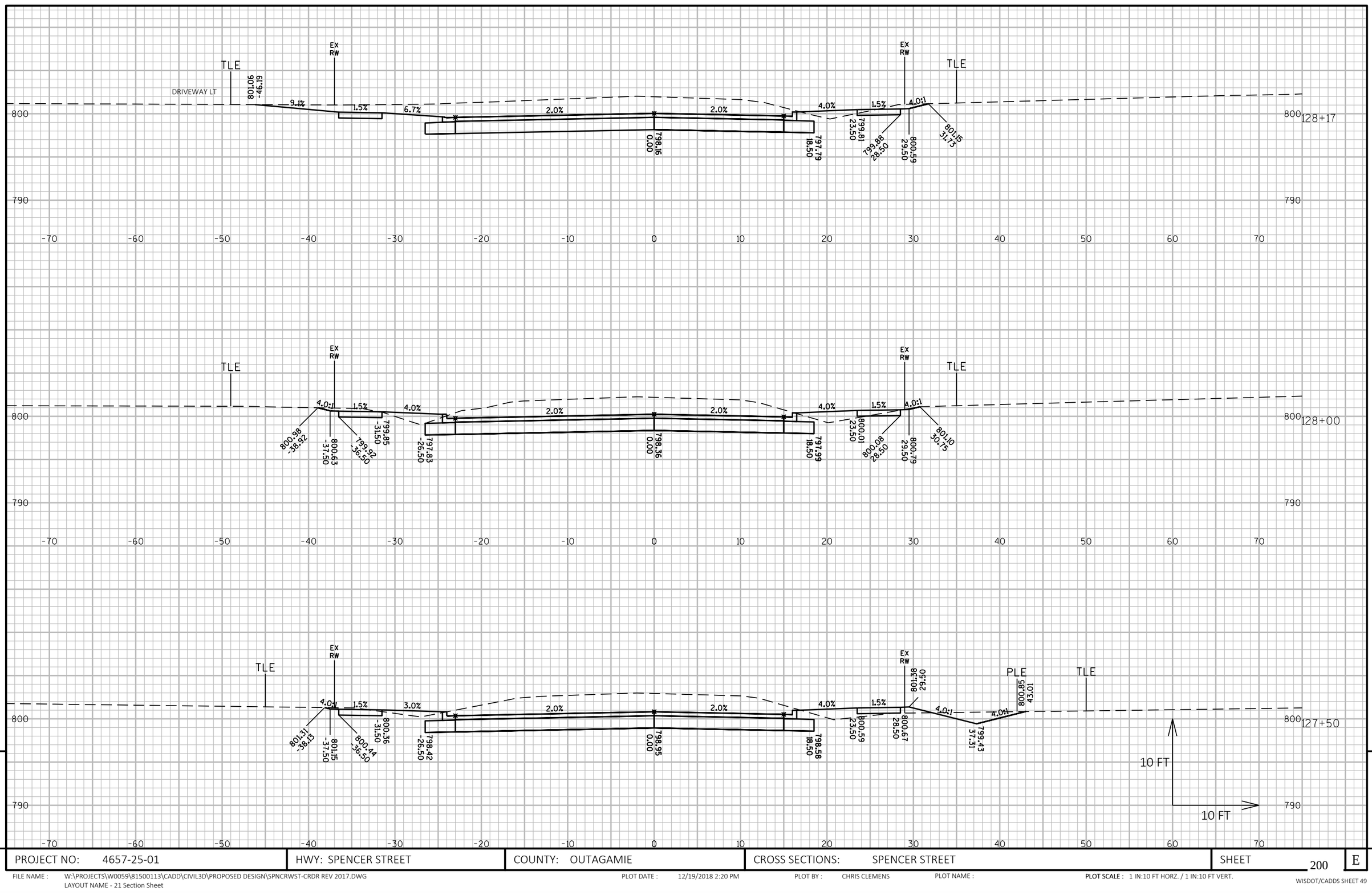
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 199	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 20 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



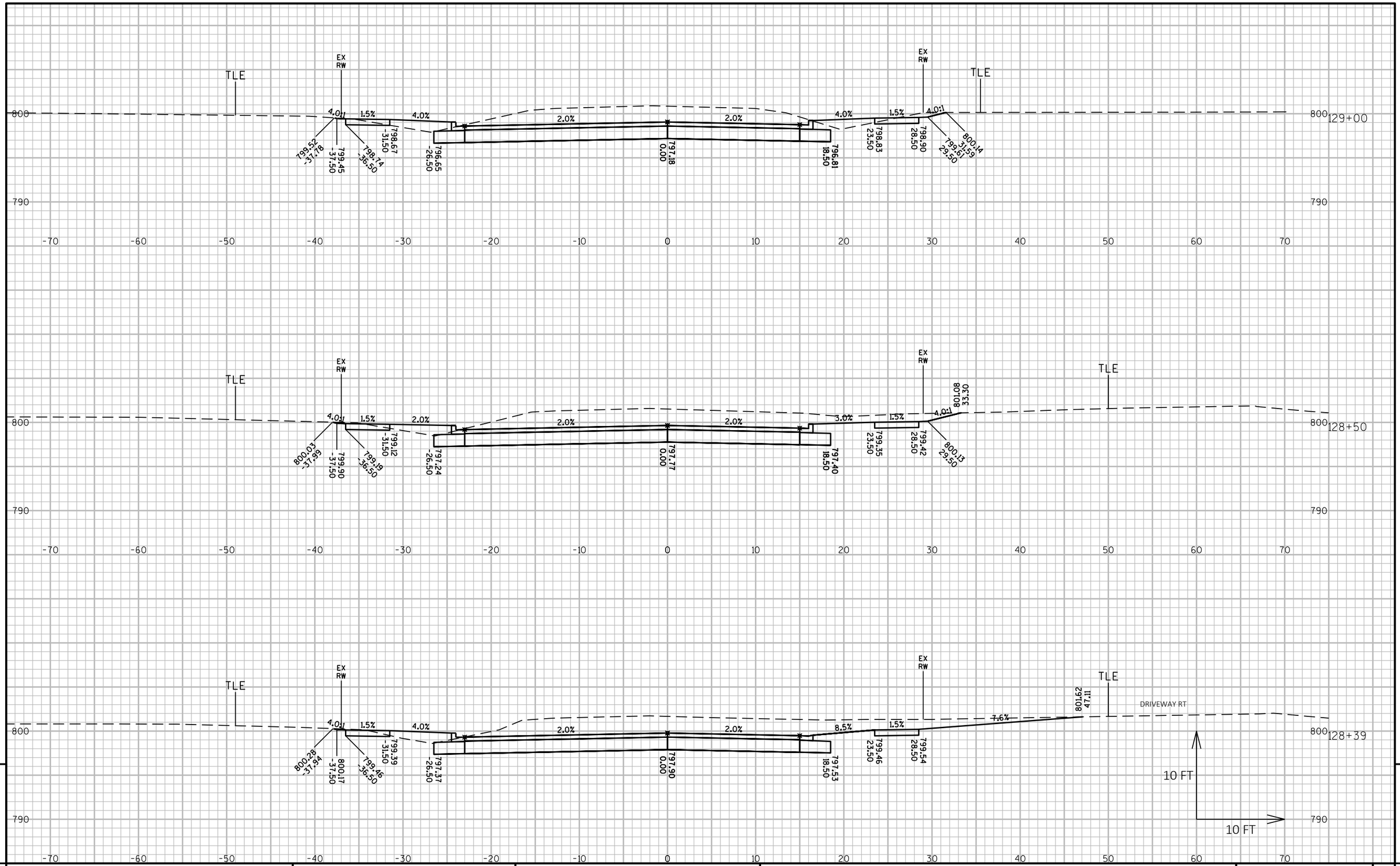
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 200	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 21 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



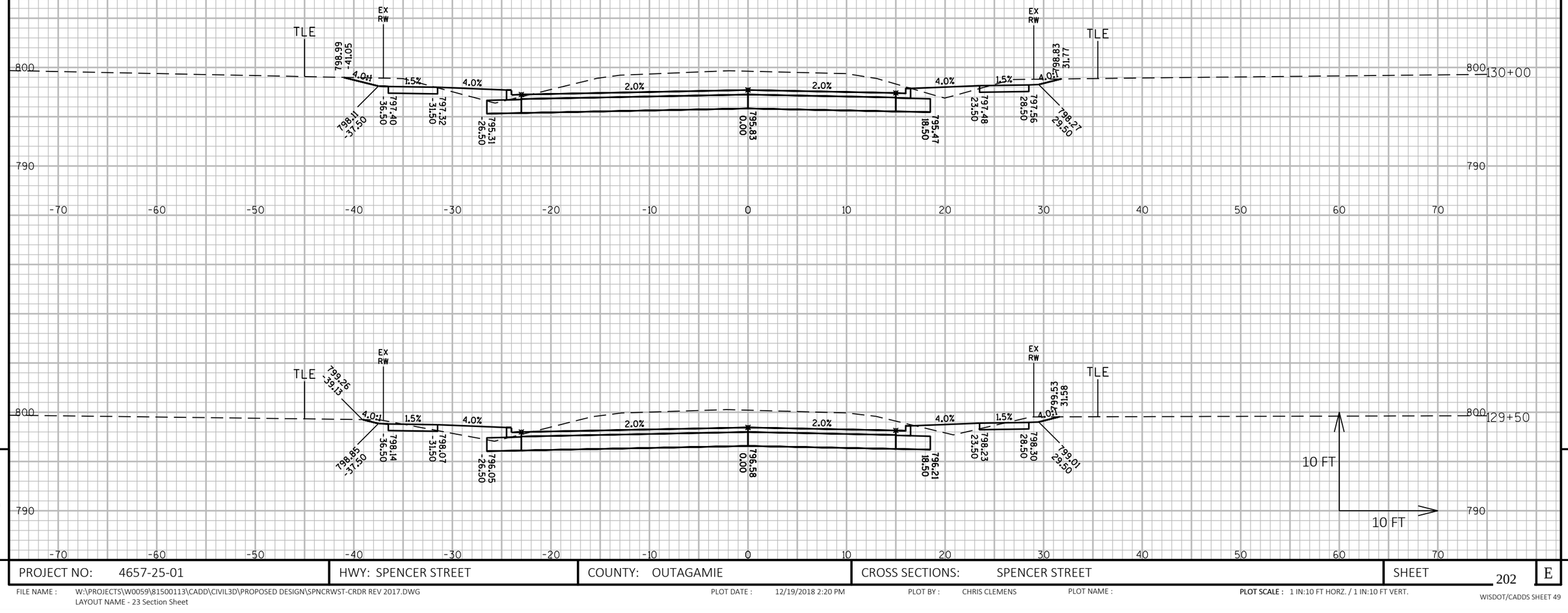
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 201	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 22 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

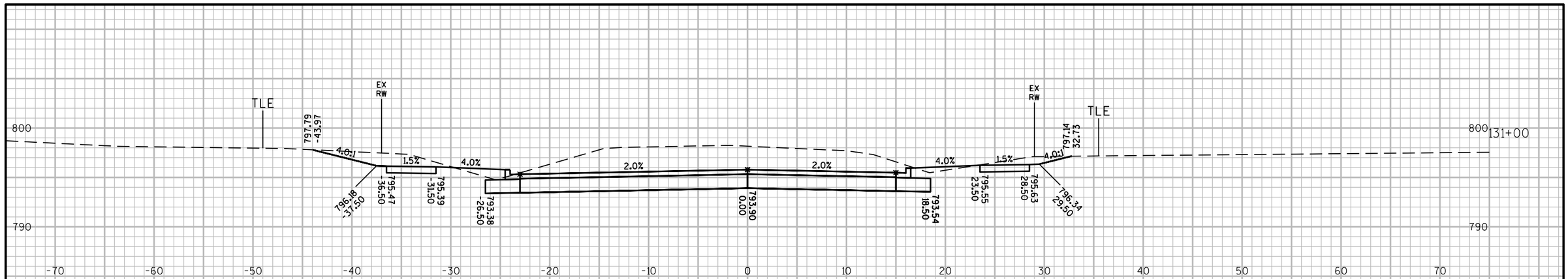
9

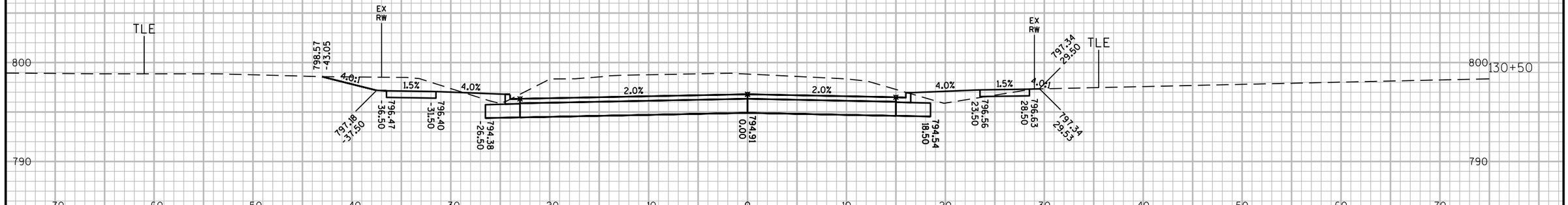
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 202	E

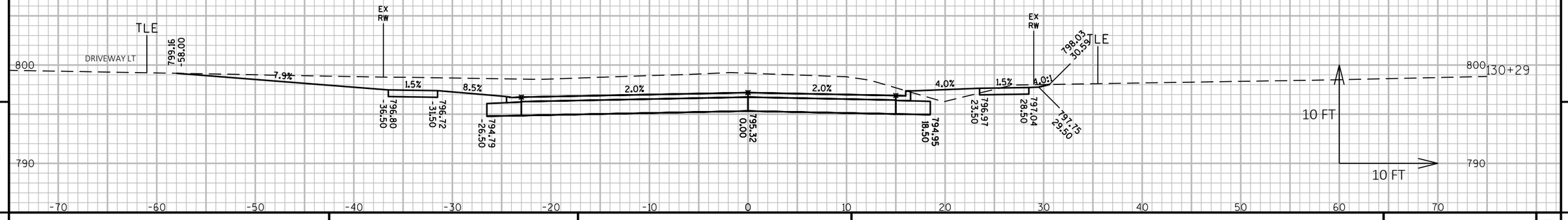
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 23 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







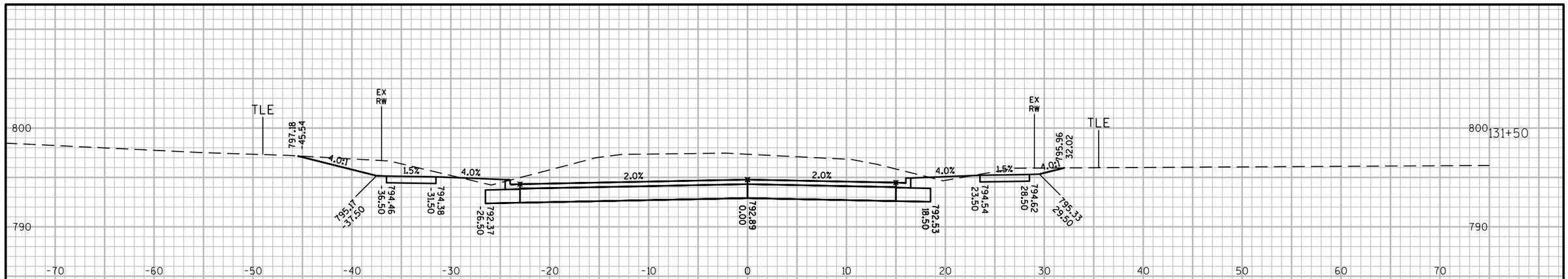
9

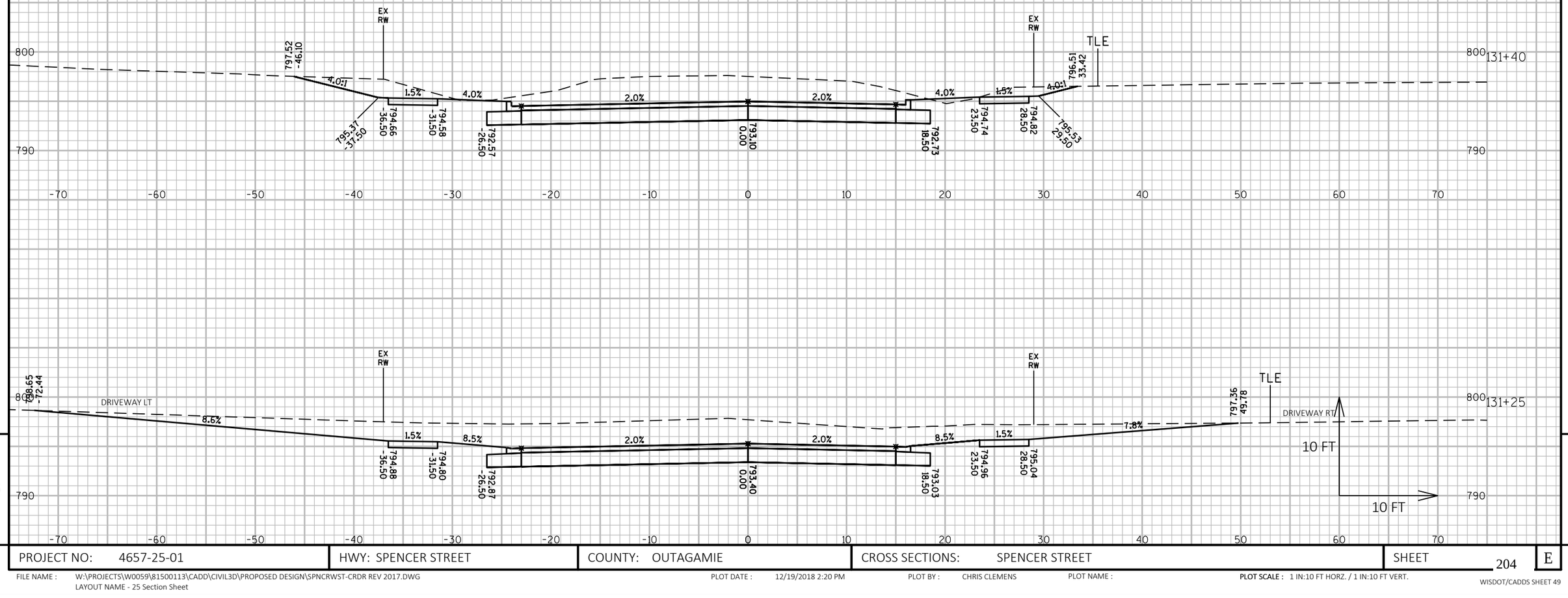
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 203	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 24 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.





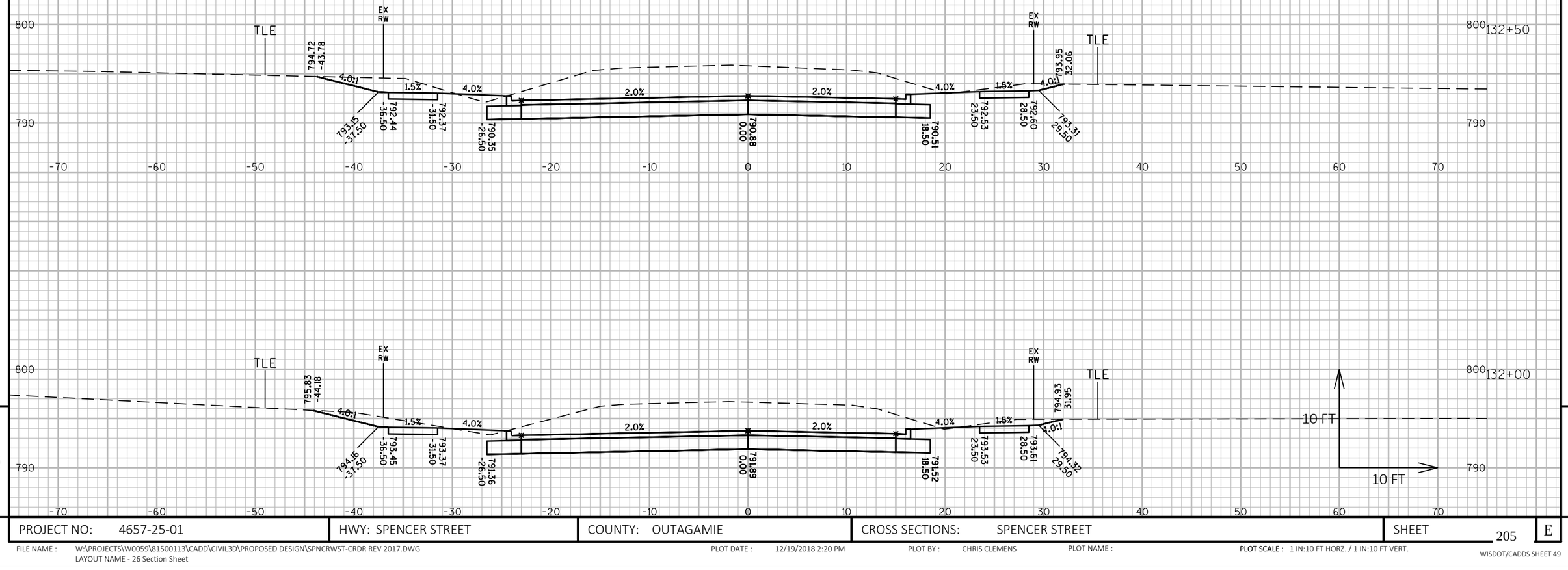
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 204	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 25 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



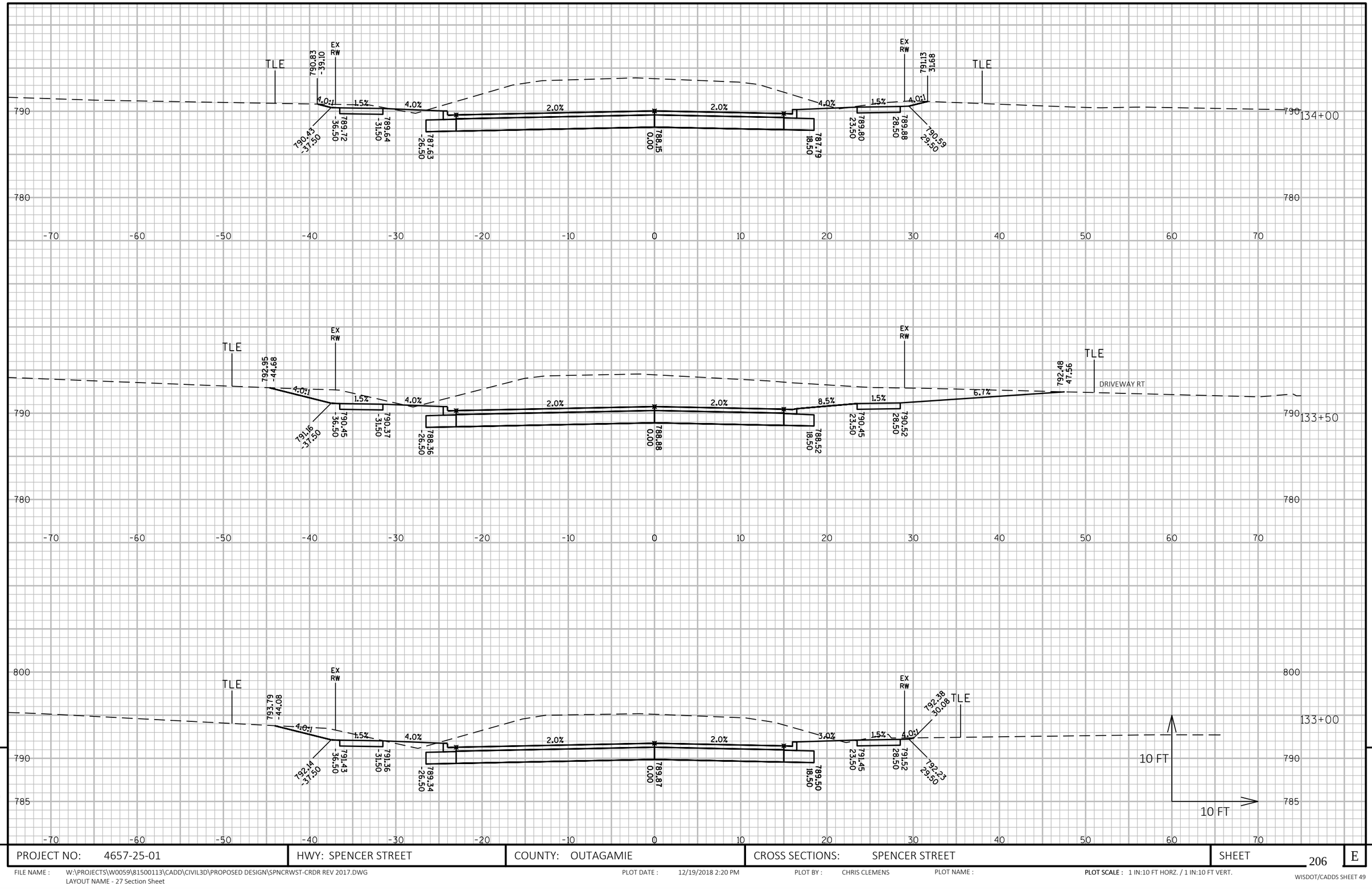
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 205	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 26 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



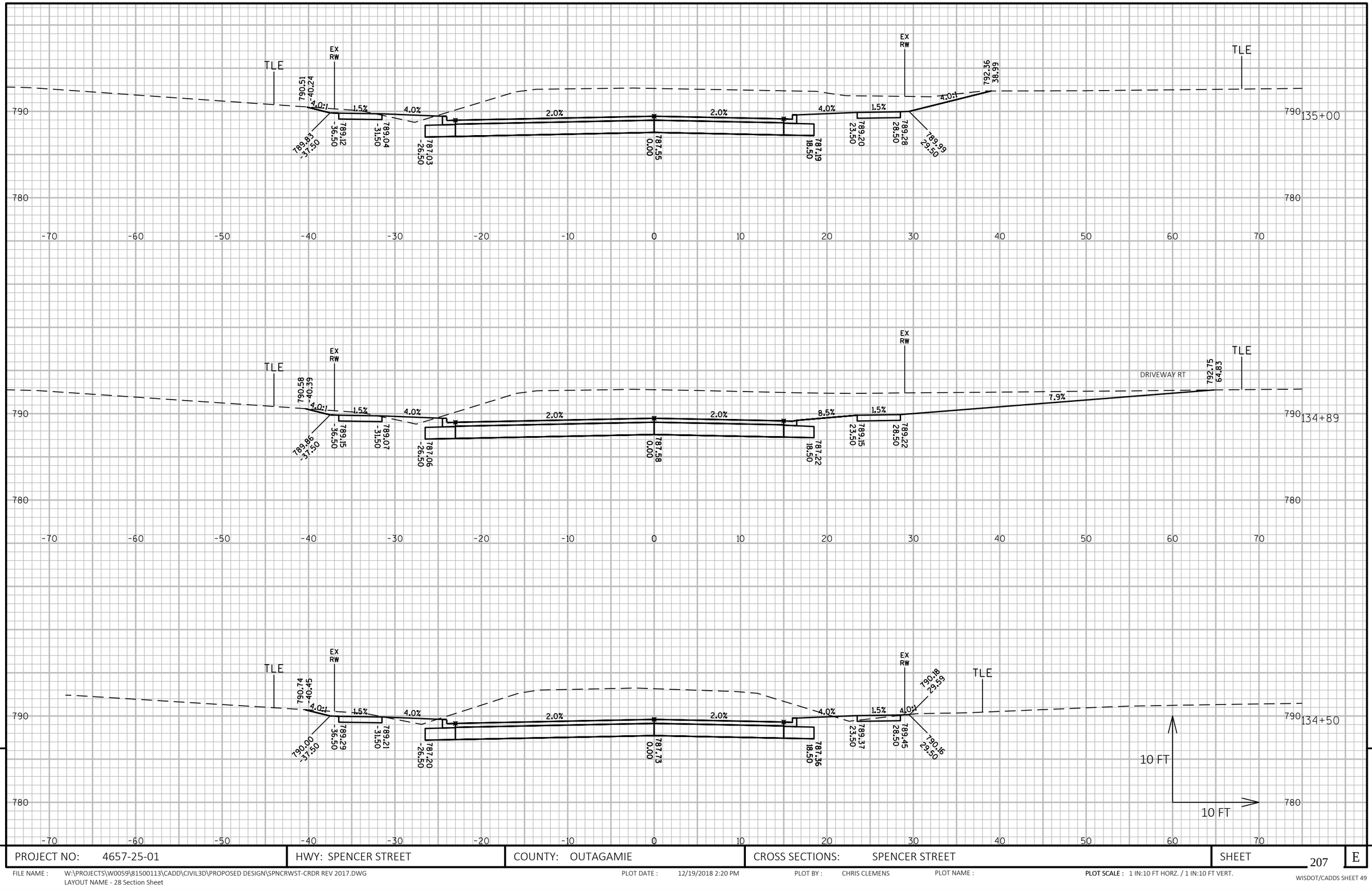
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 206	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 27 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

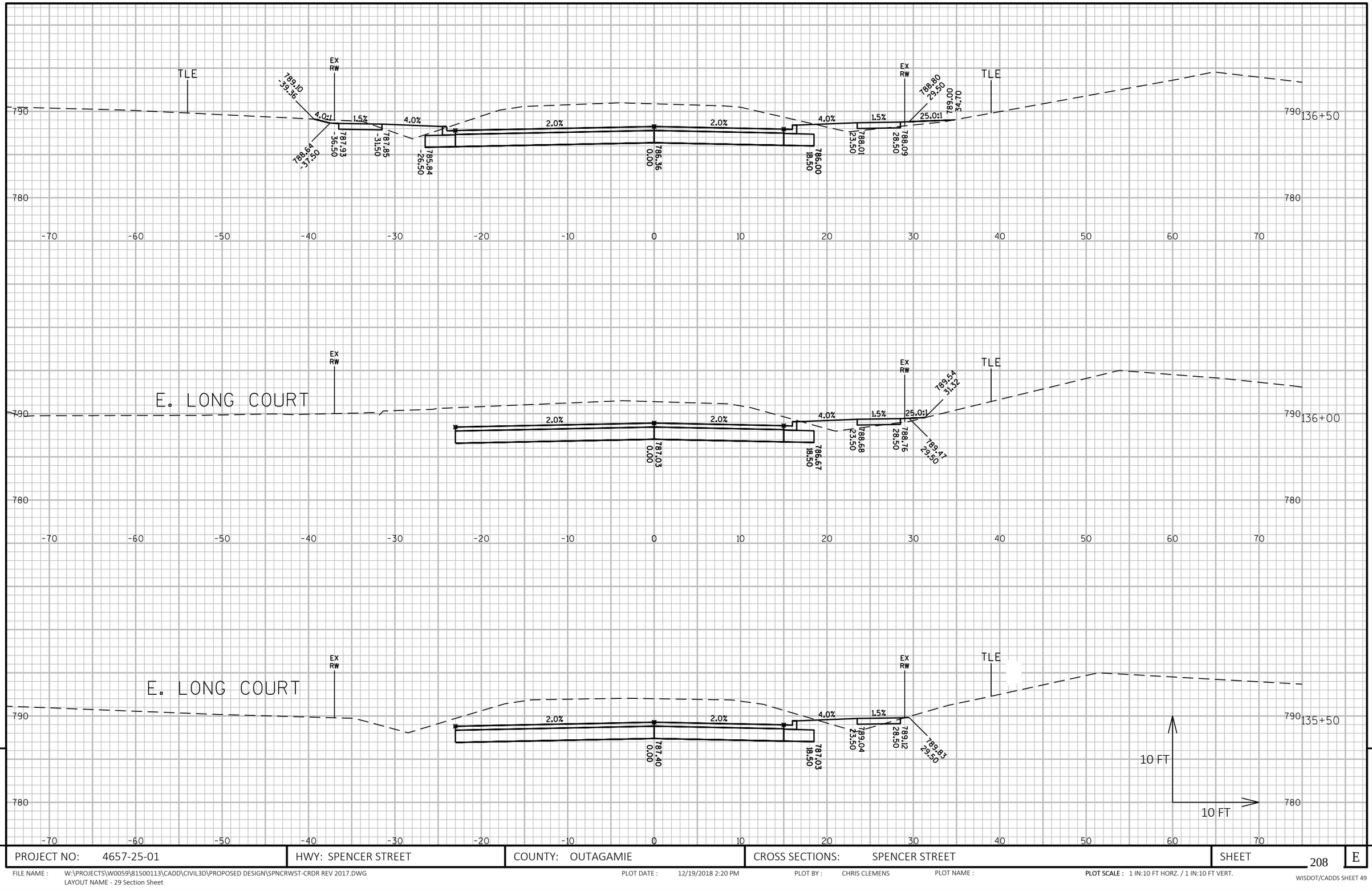


9 9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 207	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 28 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



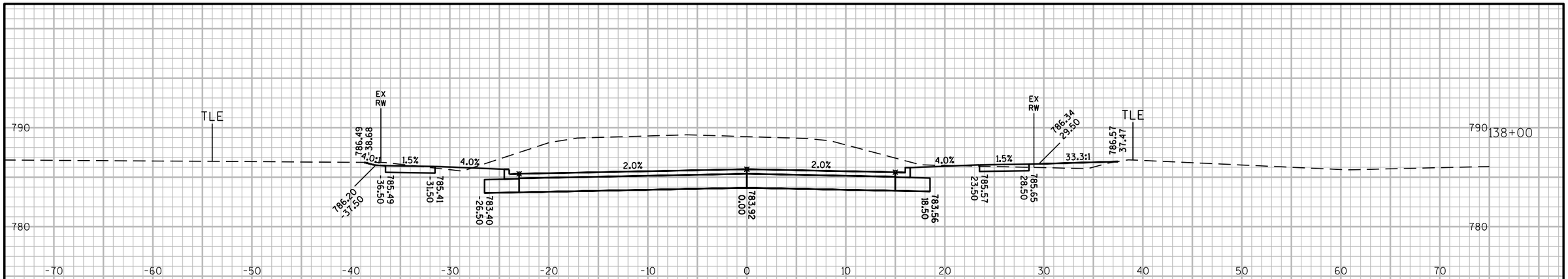
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 208	E

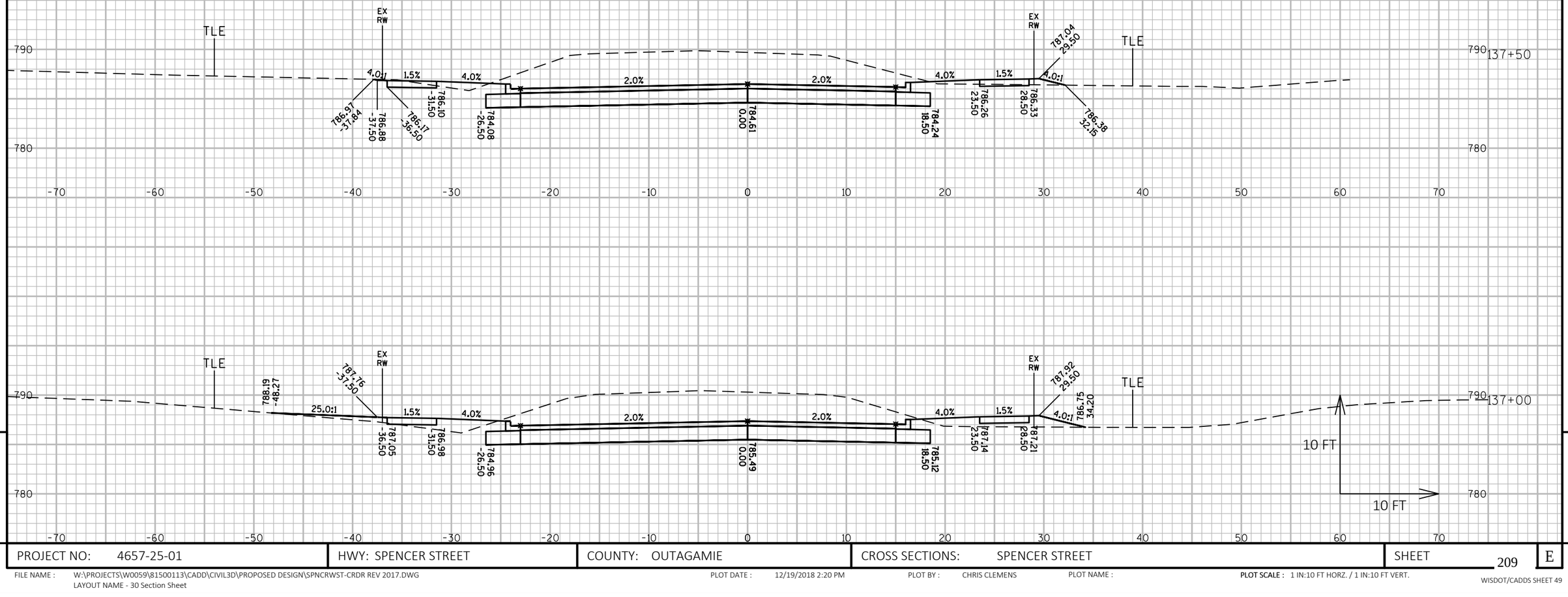
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 29 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9 9





9

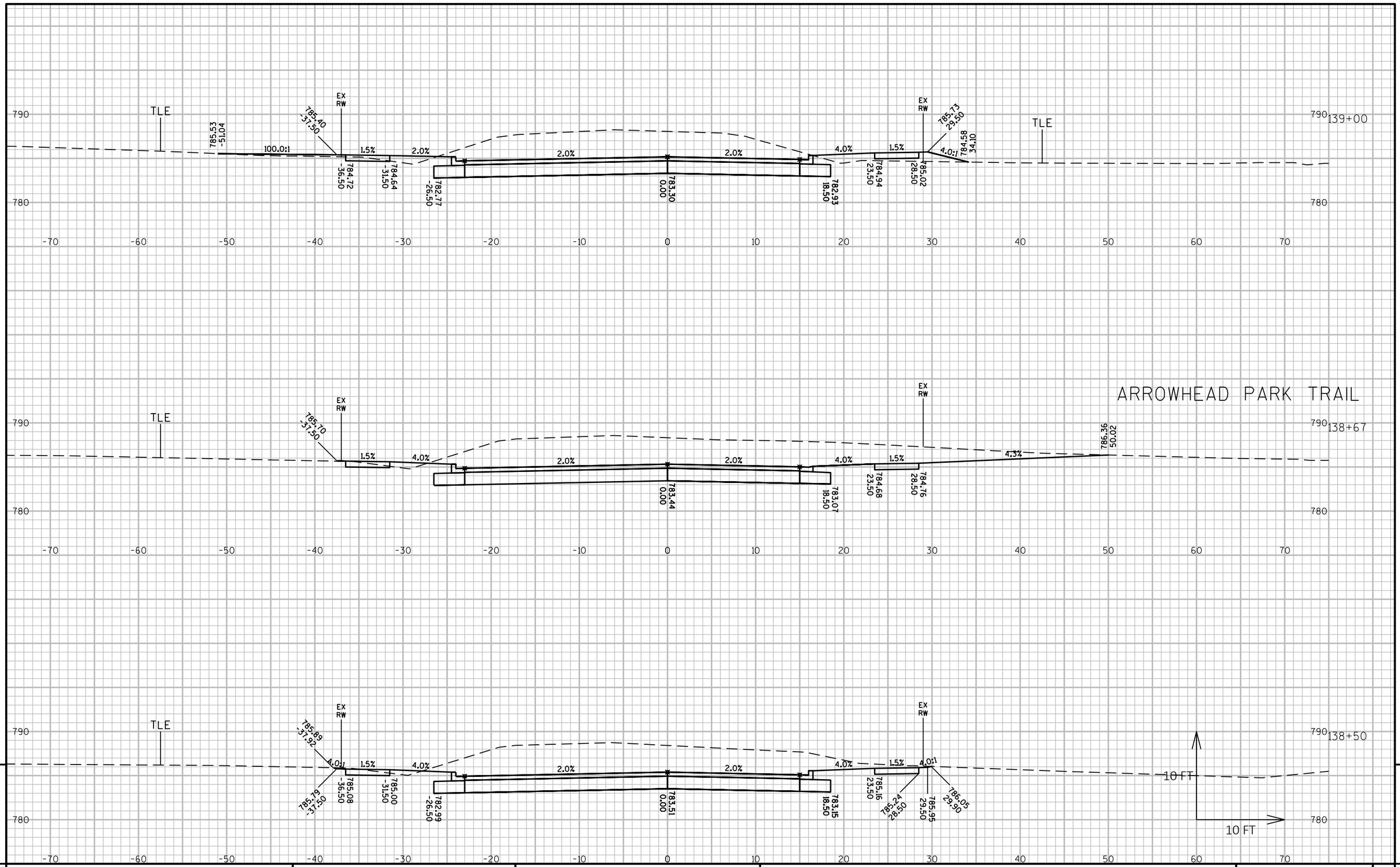
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 209	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 30 Section Sheet

PLOT DATE : 12/19/2018 2:20 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

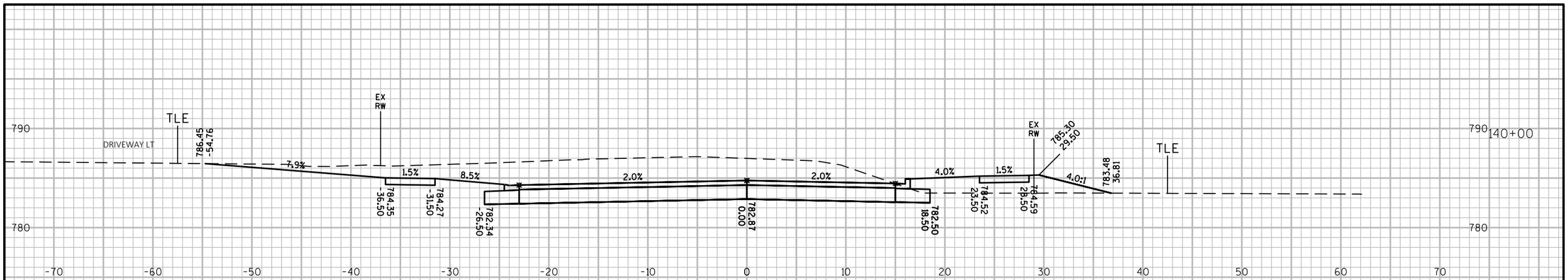
9

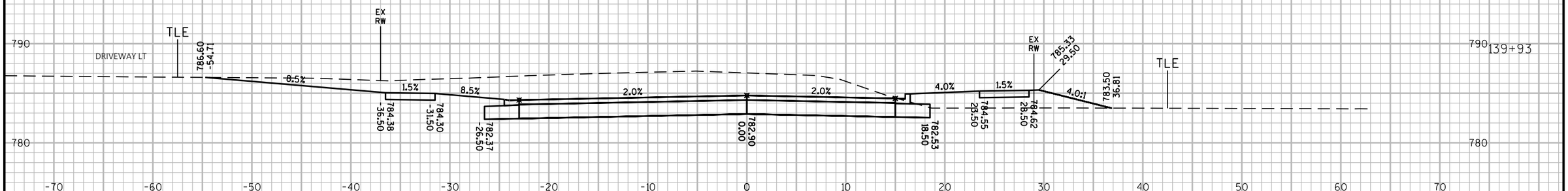
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 210	E

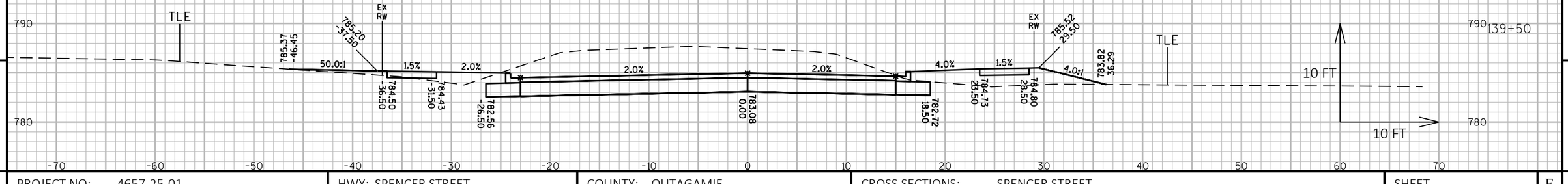
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 31 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





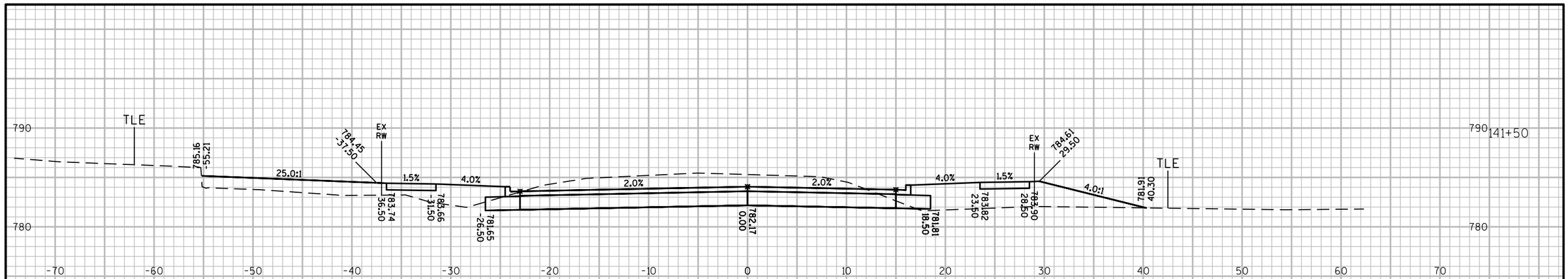


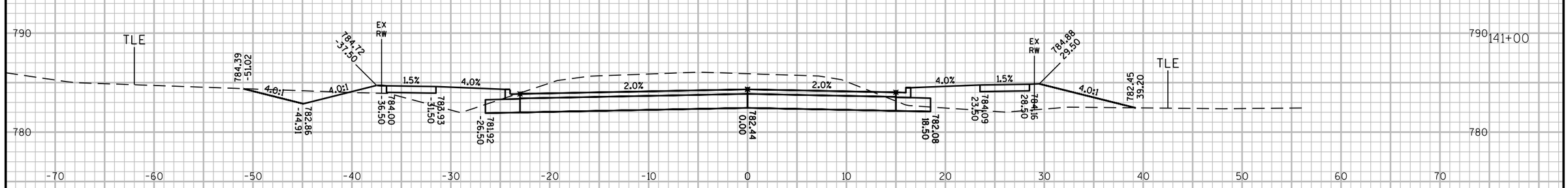
9 9

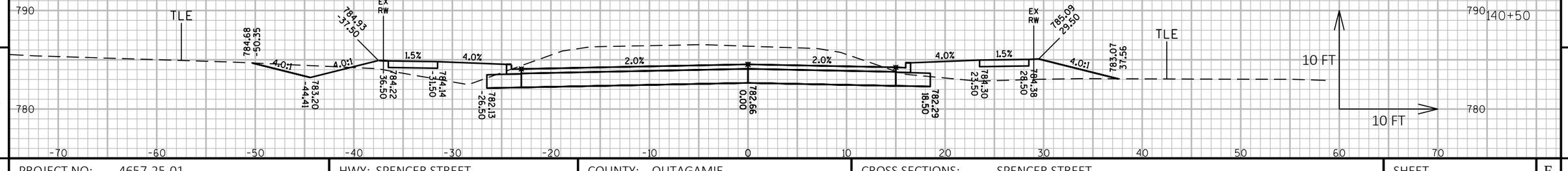
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 211	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 32 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.







9

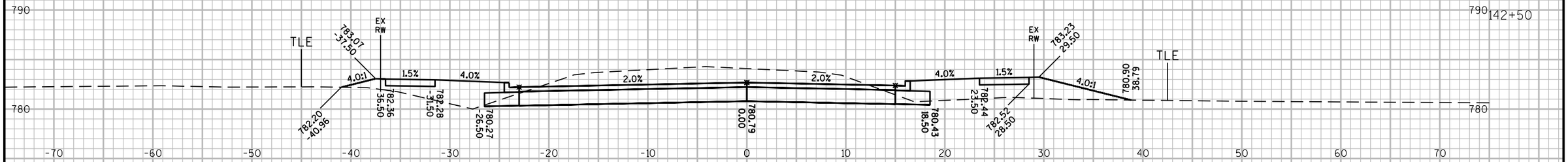
9

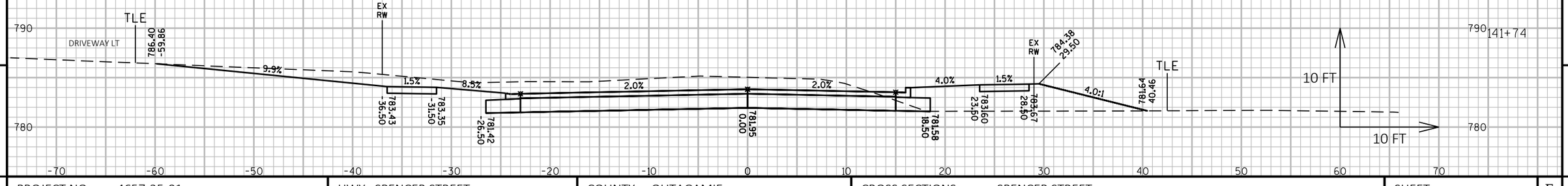
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 212	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 33 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

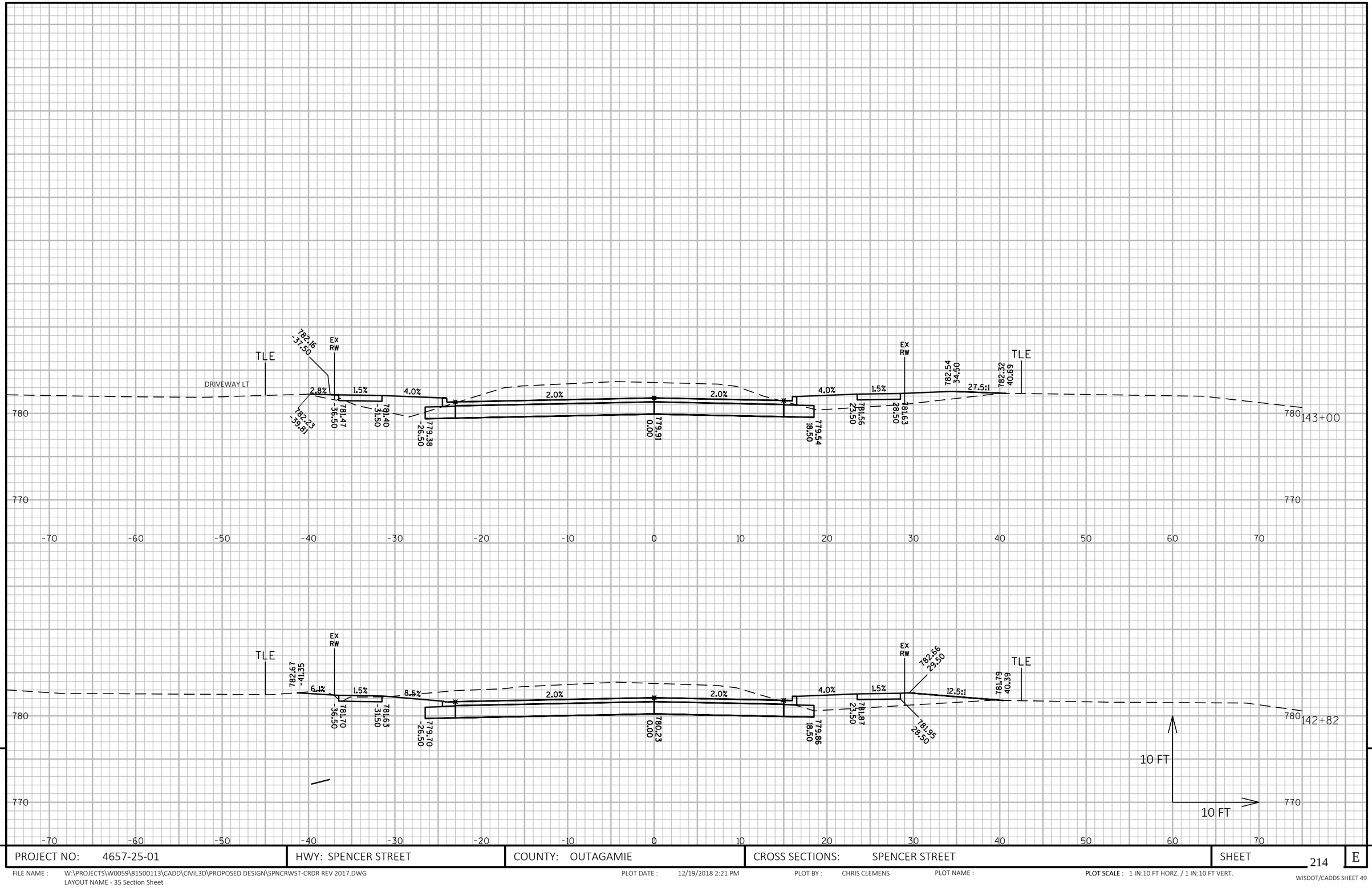
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 213	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 34 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

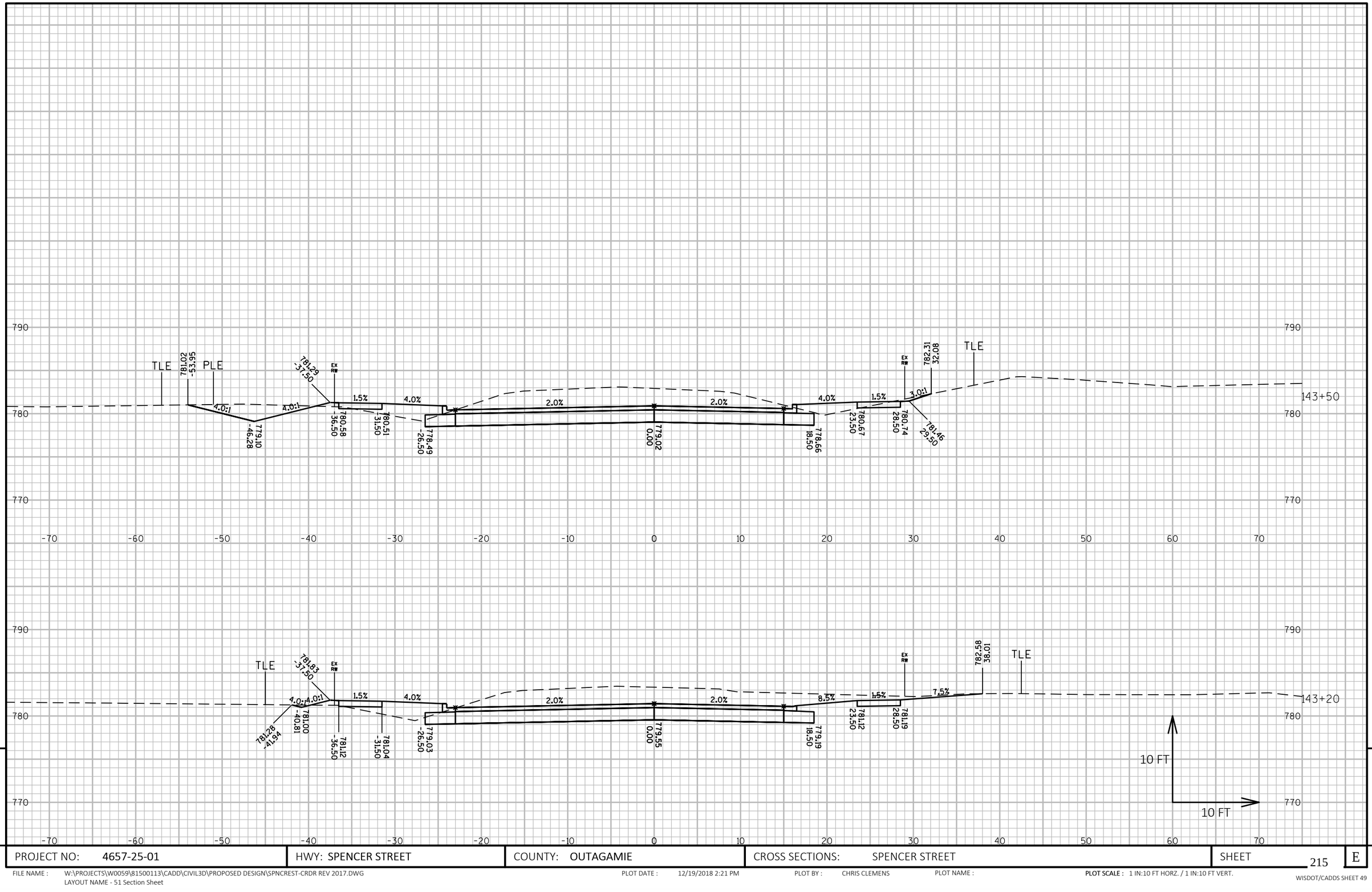
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 214	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCRWST-CRDR REV 2017.DWG
LAYOUT NAME - 35 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

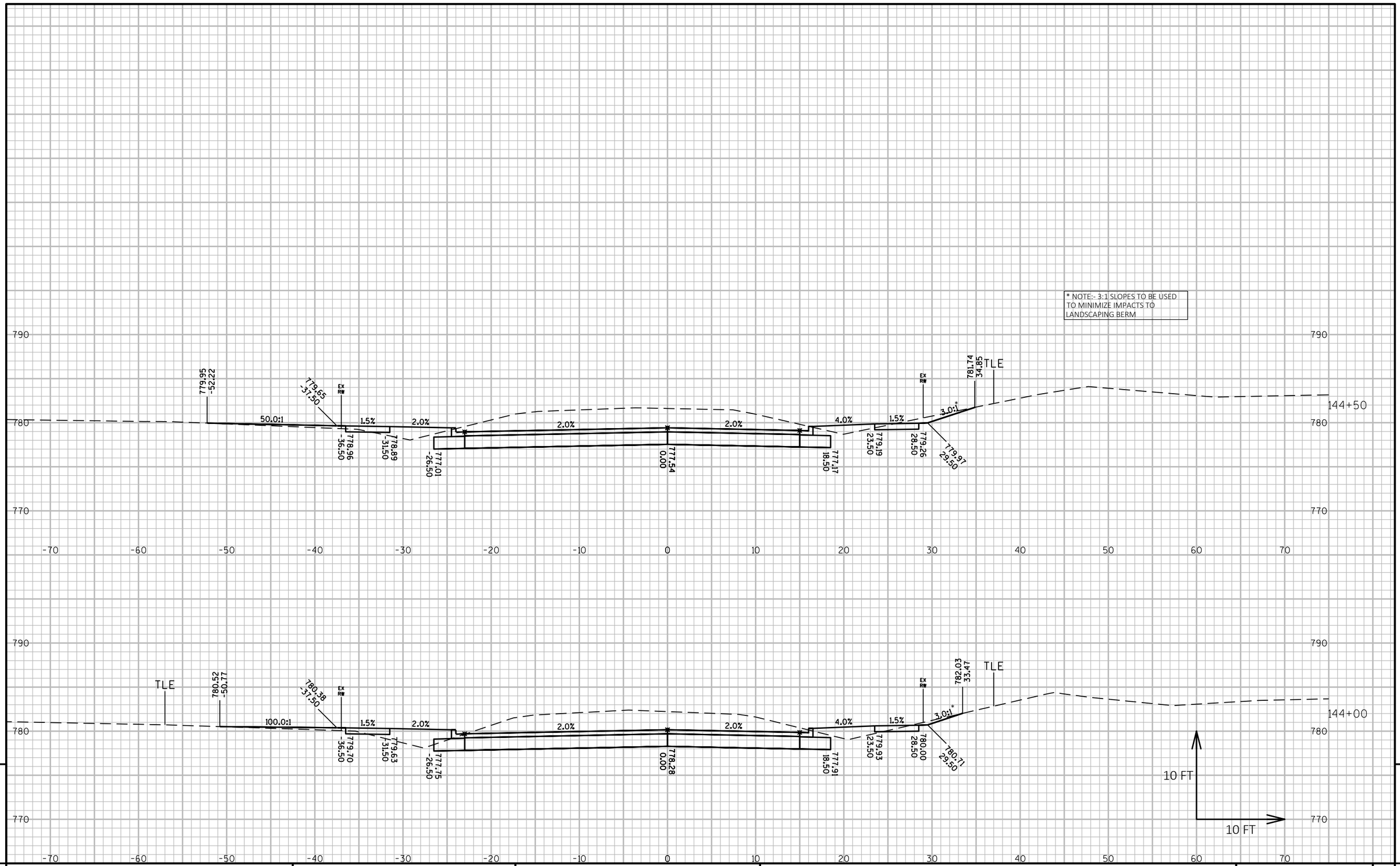


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 215 E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 51 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

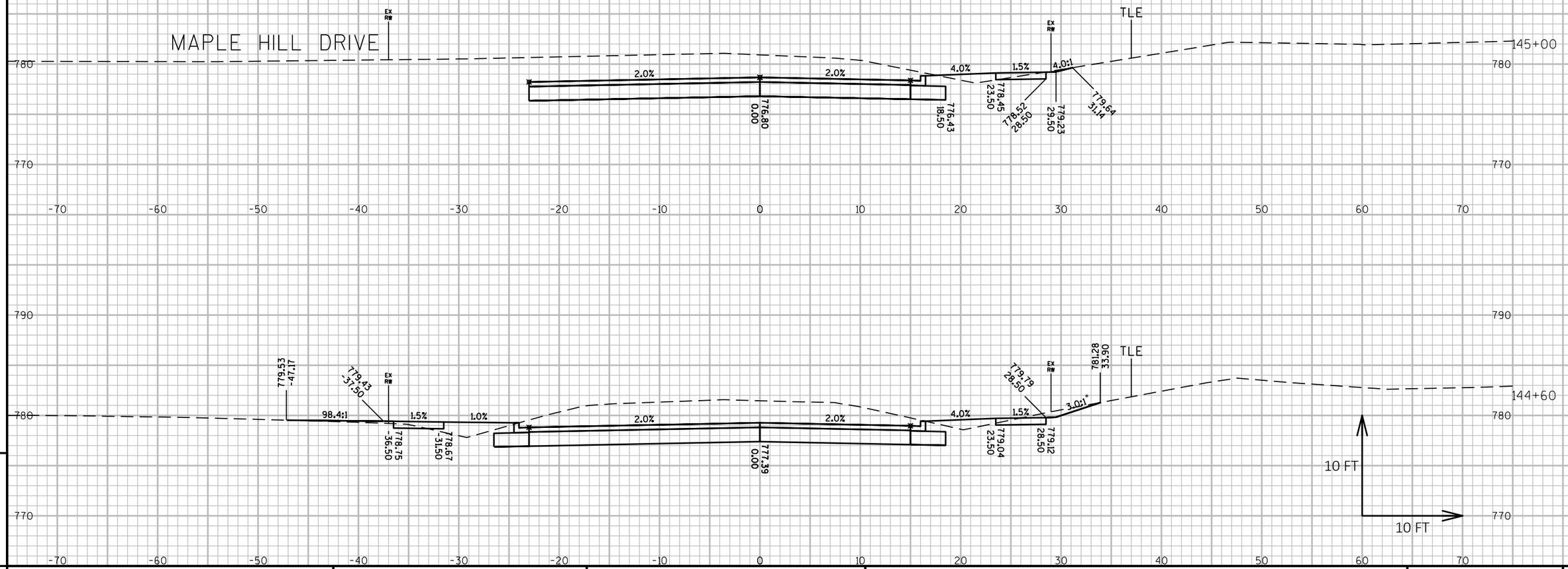
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 216	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 52 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

* NOTE:- 3:1 SLOPES TO BE USED TO MINIMIZE IMPACTS TO LANDSCAPING BERM



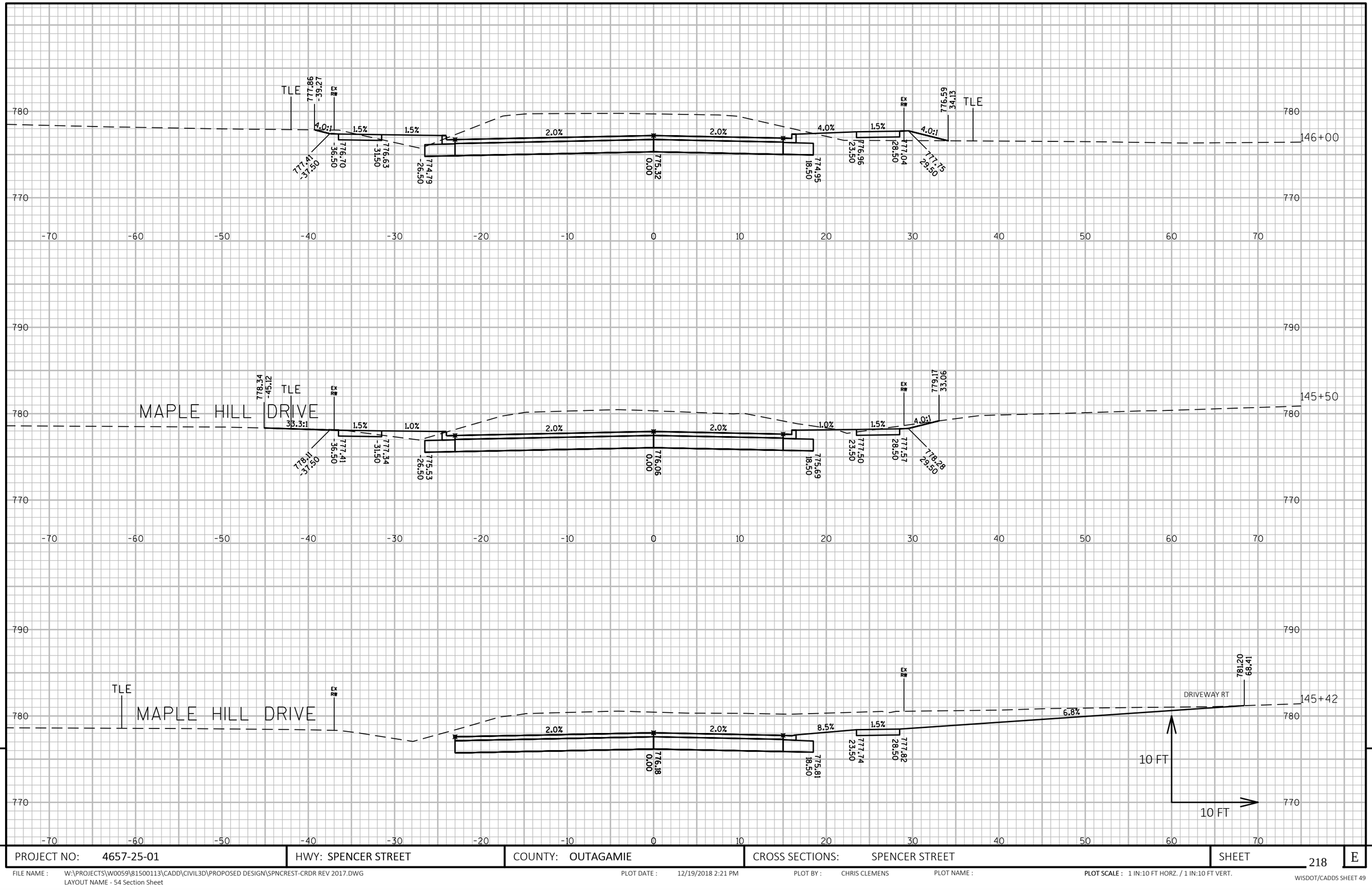
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 217	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 53 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9 9

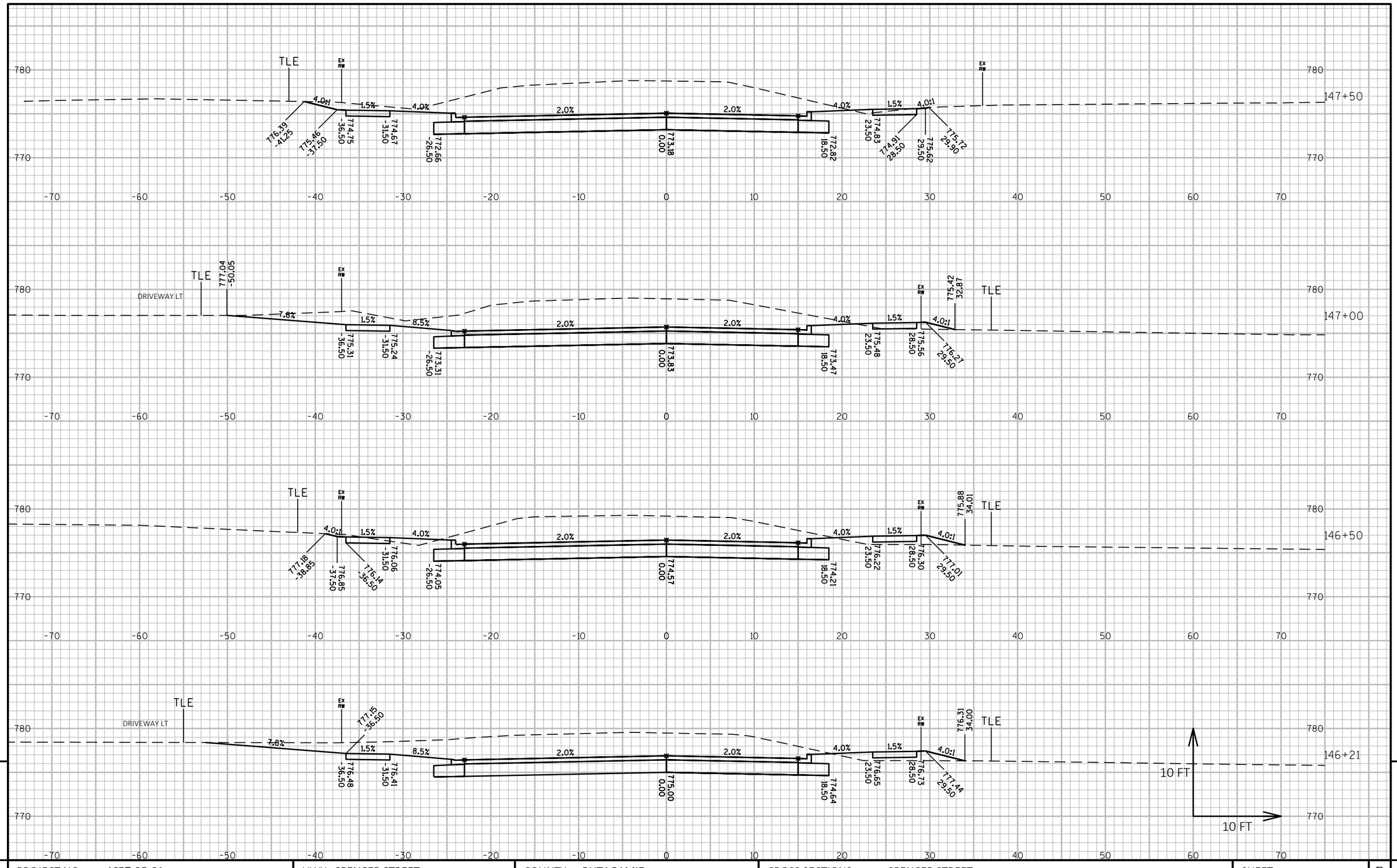


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 218 E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 54 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



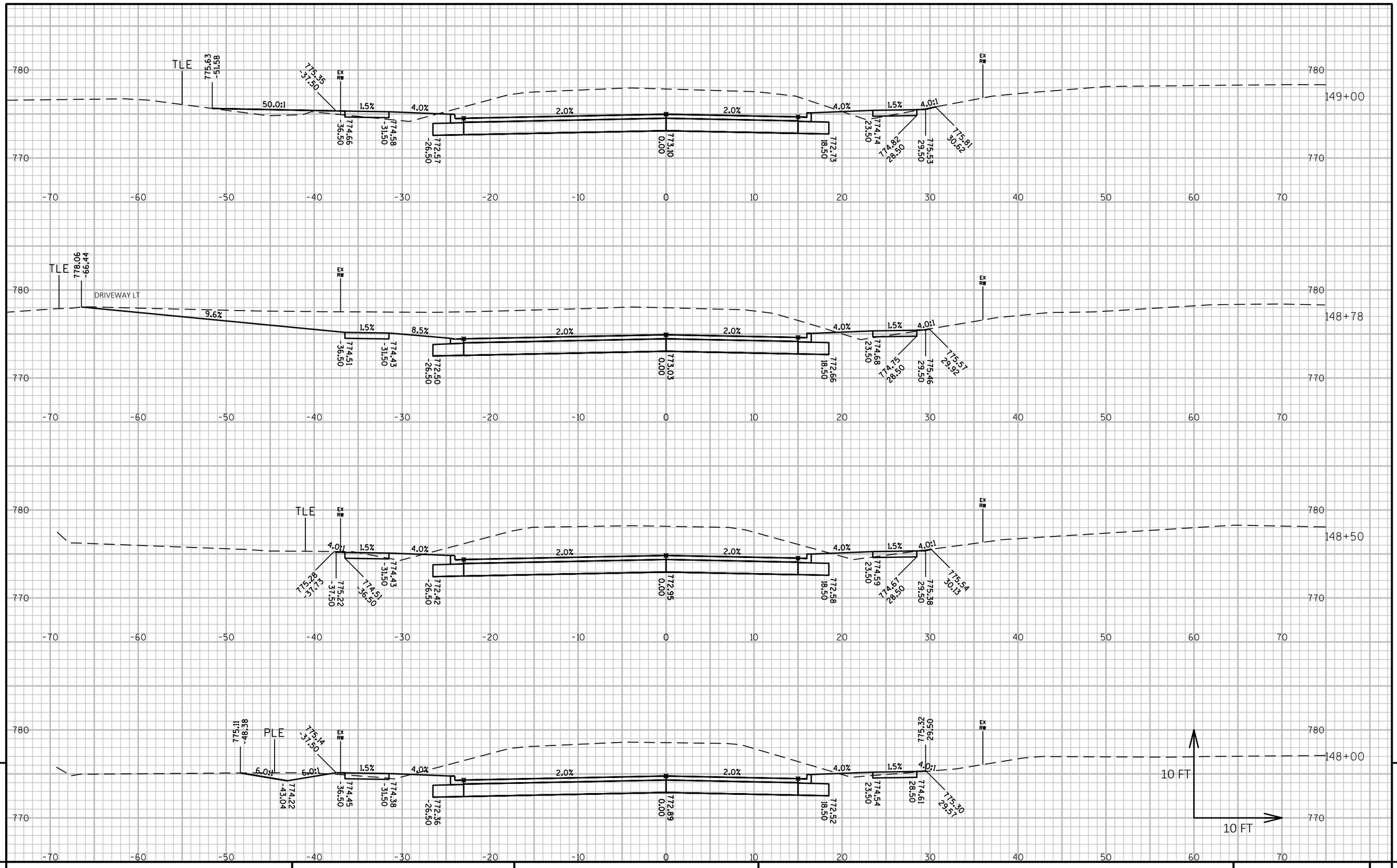
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 219	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 55 Section Sheet

PLOT DATE : 12/19/2018 2:21 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

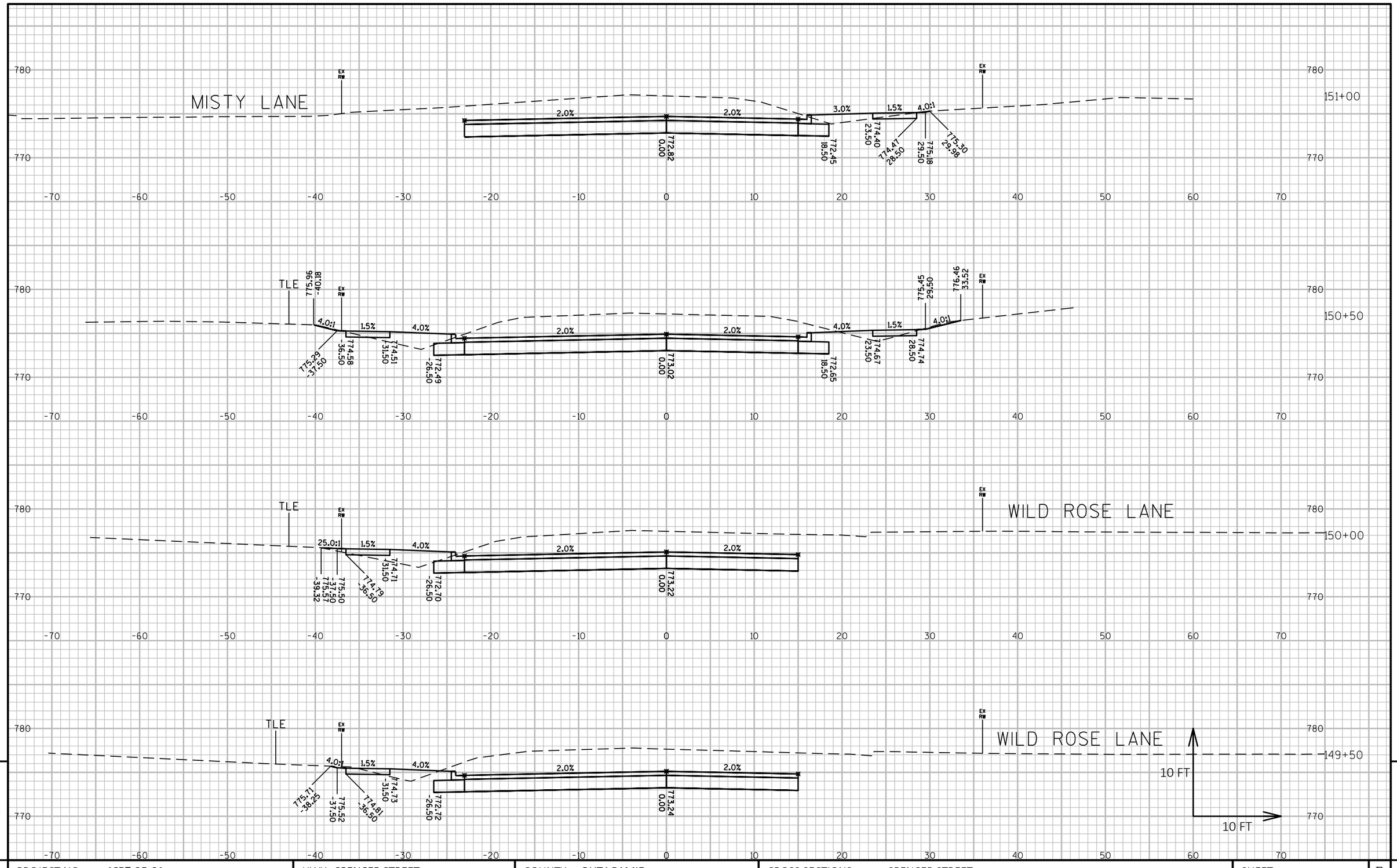
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 220	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 56 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

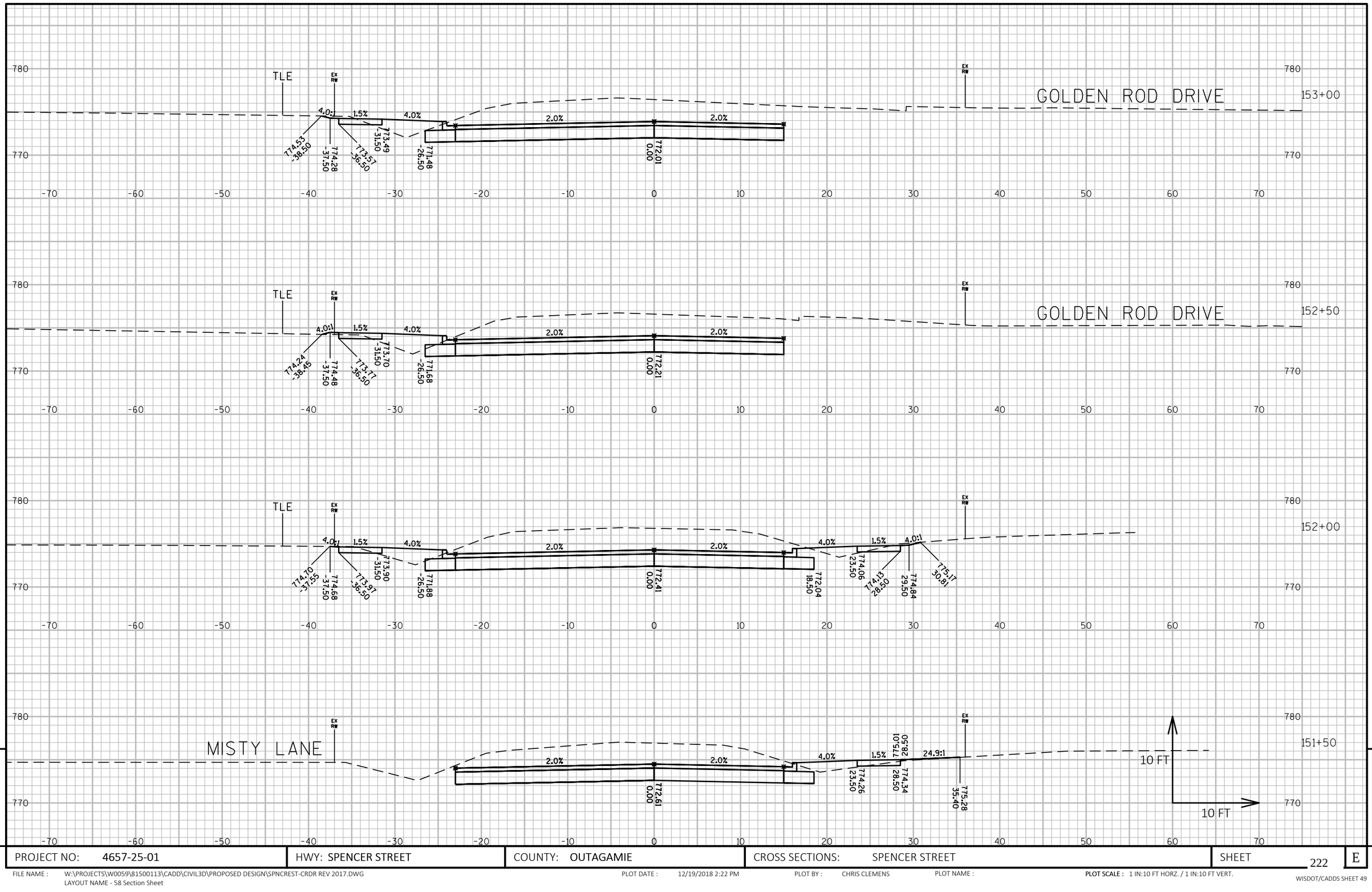
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 221	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 57 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

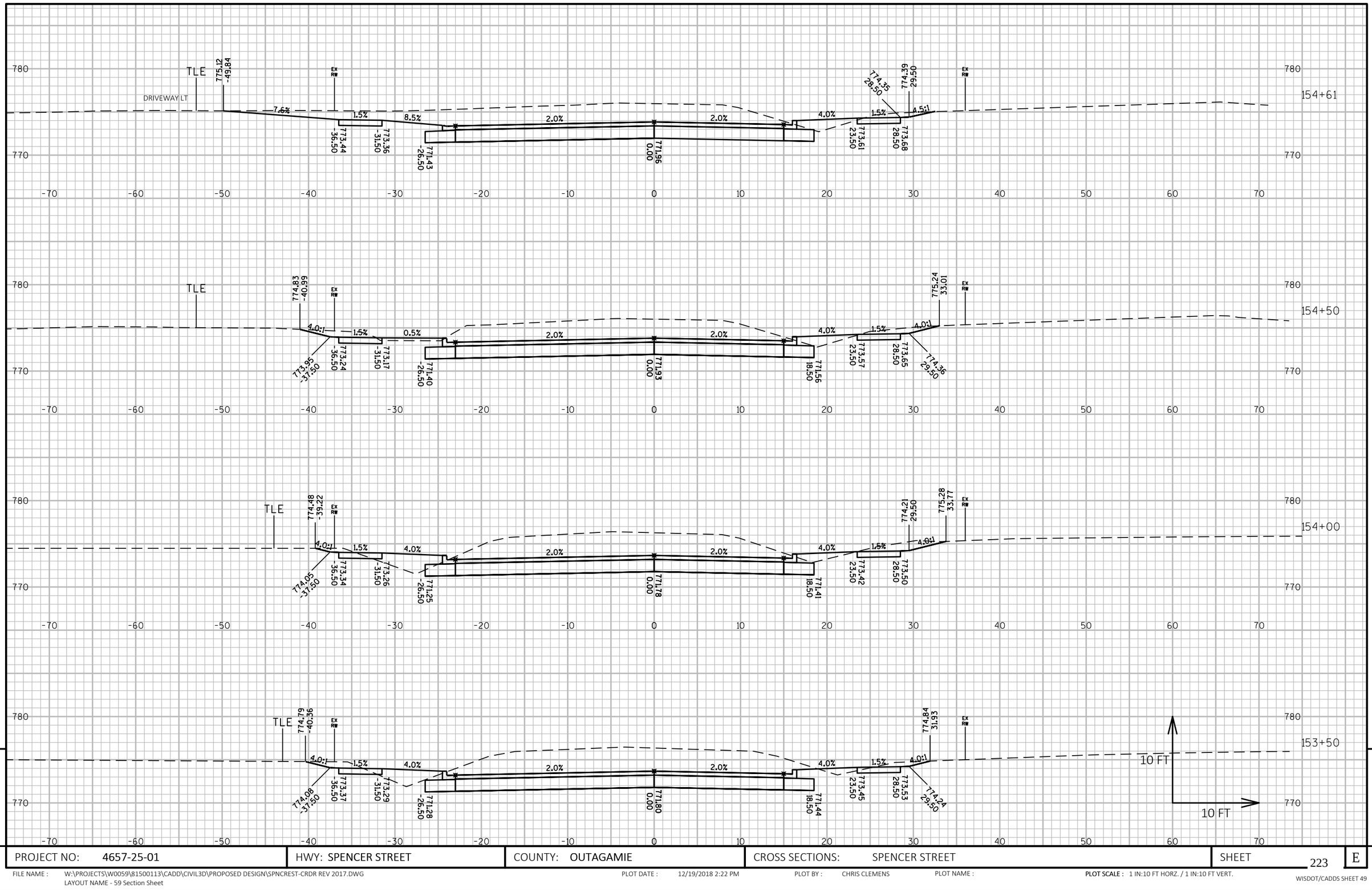
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 222	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 58 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

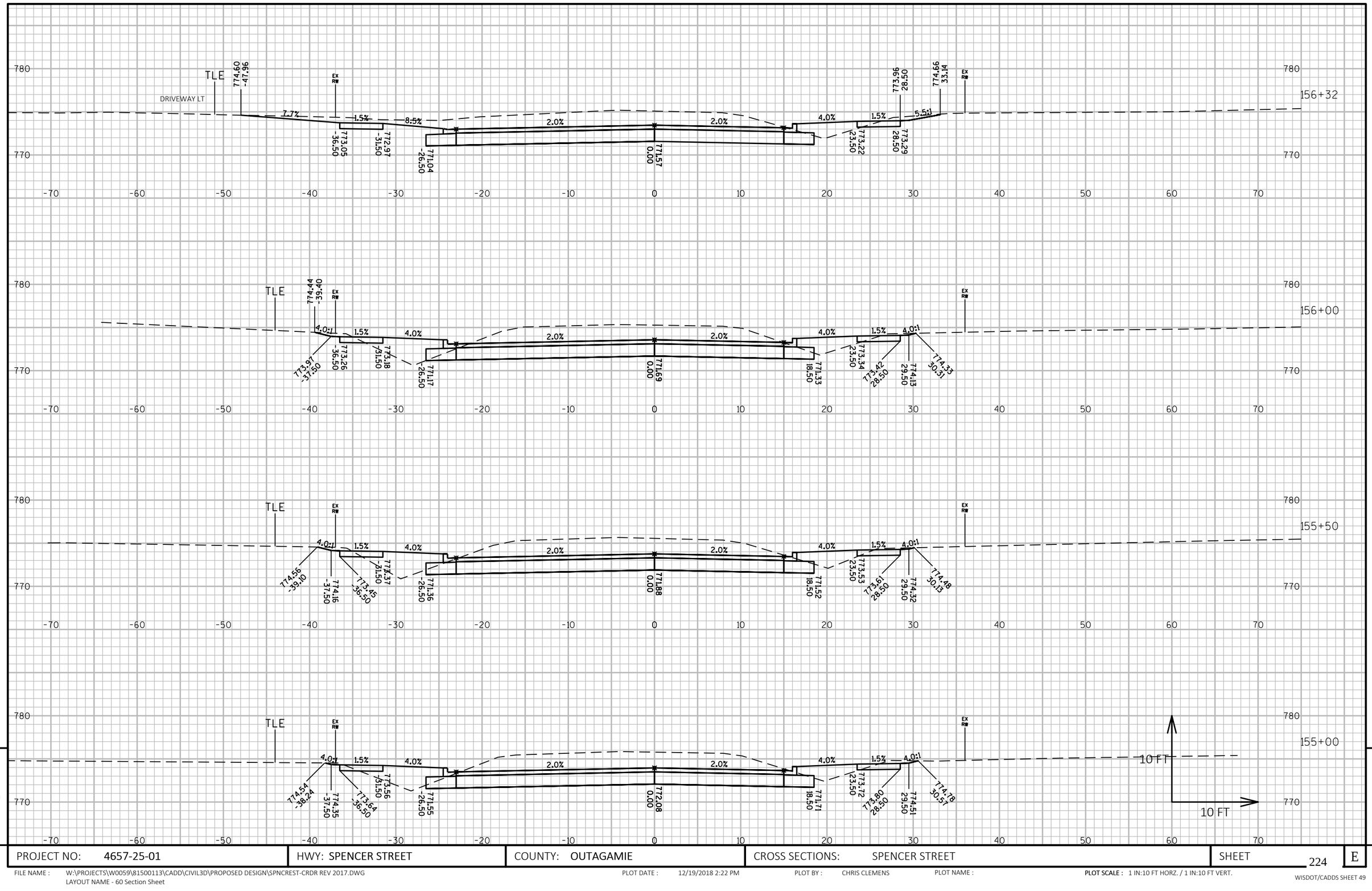
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 223	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 59 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

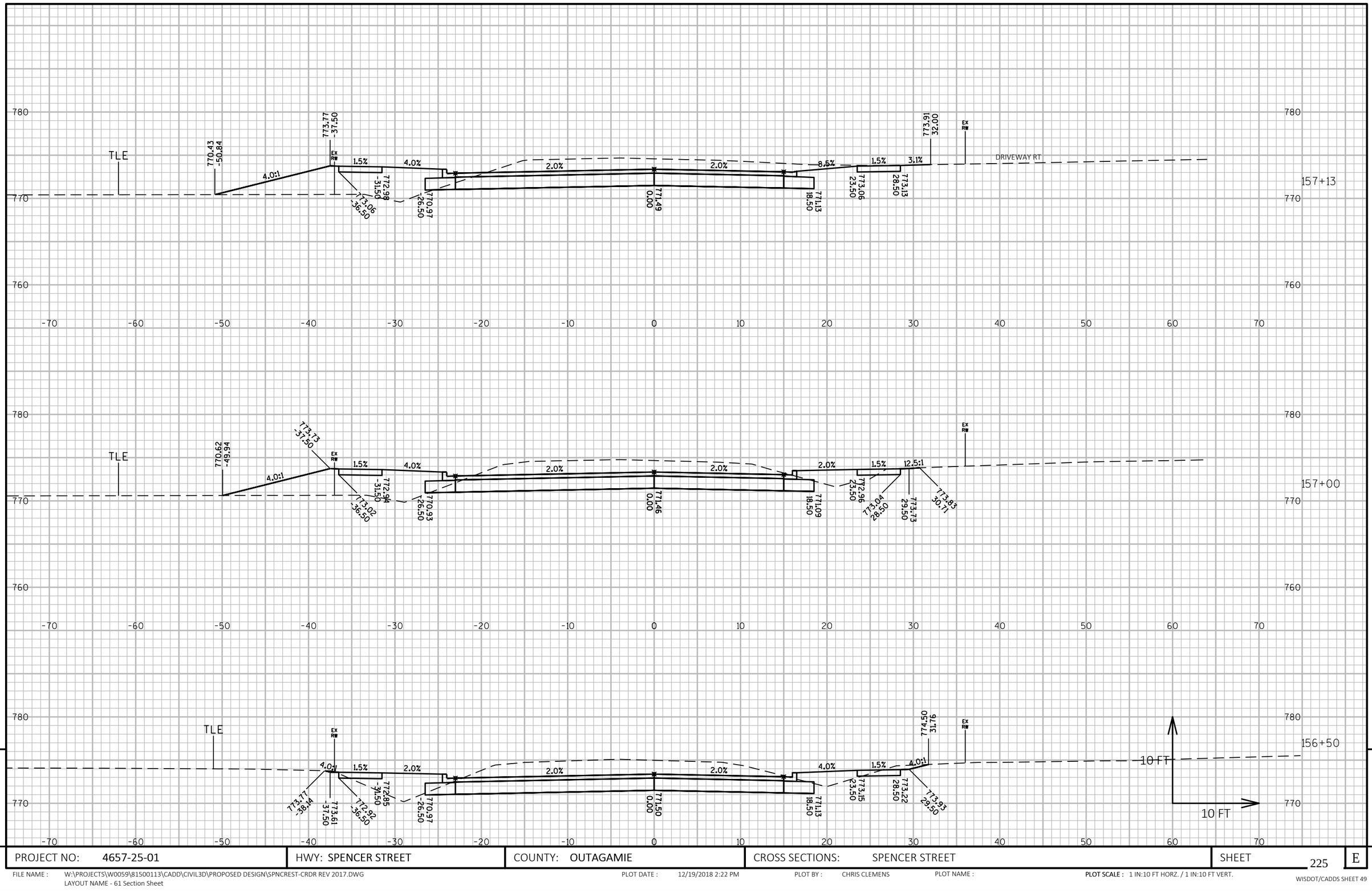
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 224	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 60 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

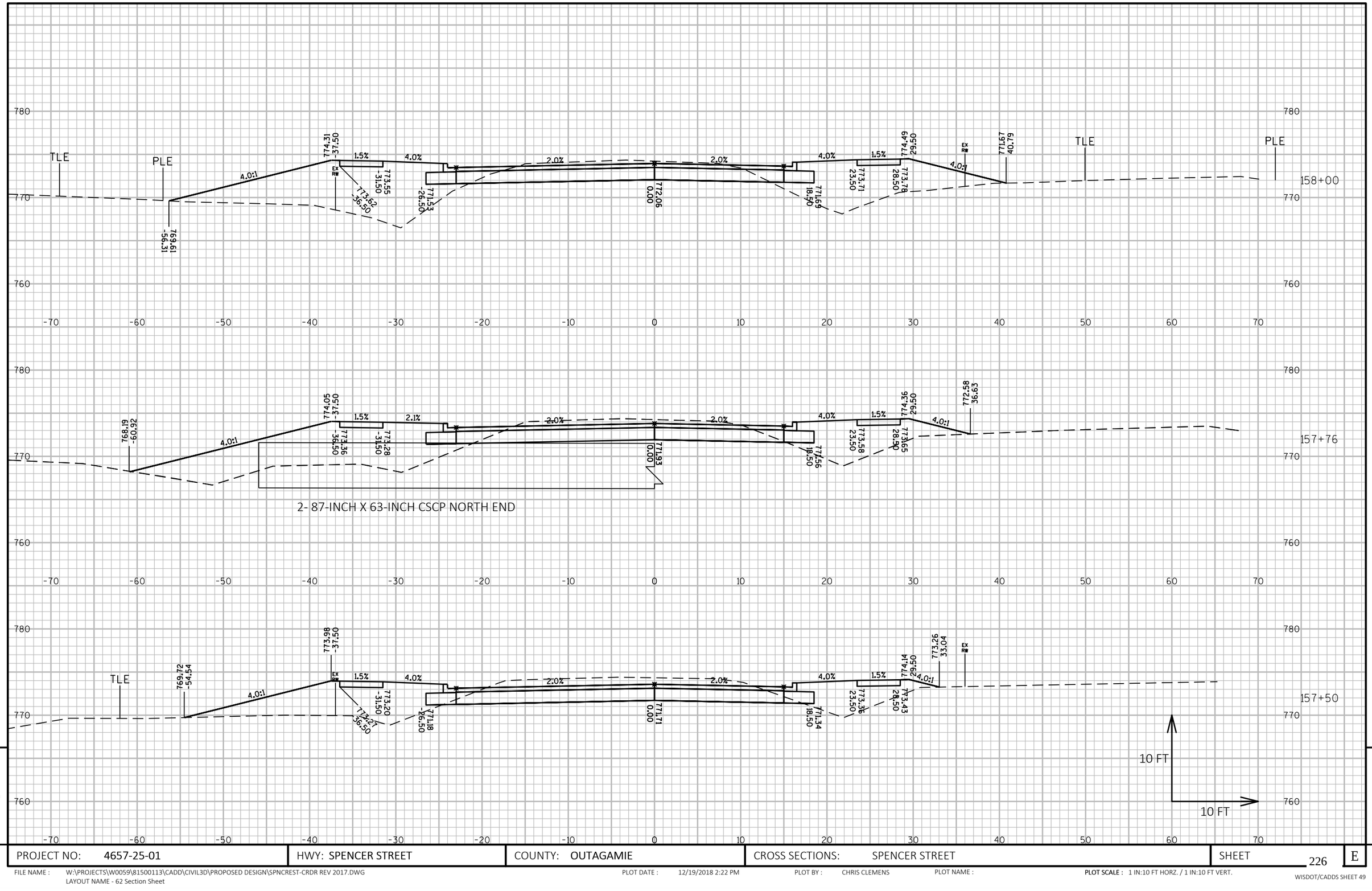


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 225	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 61 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

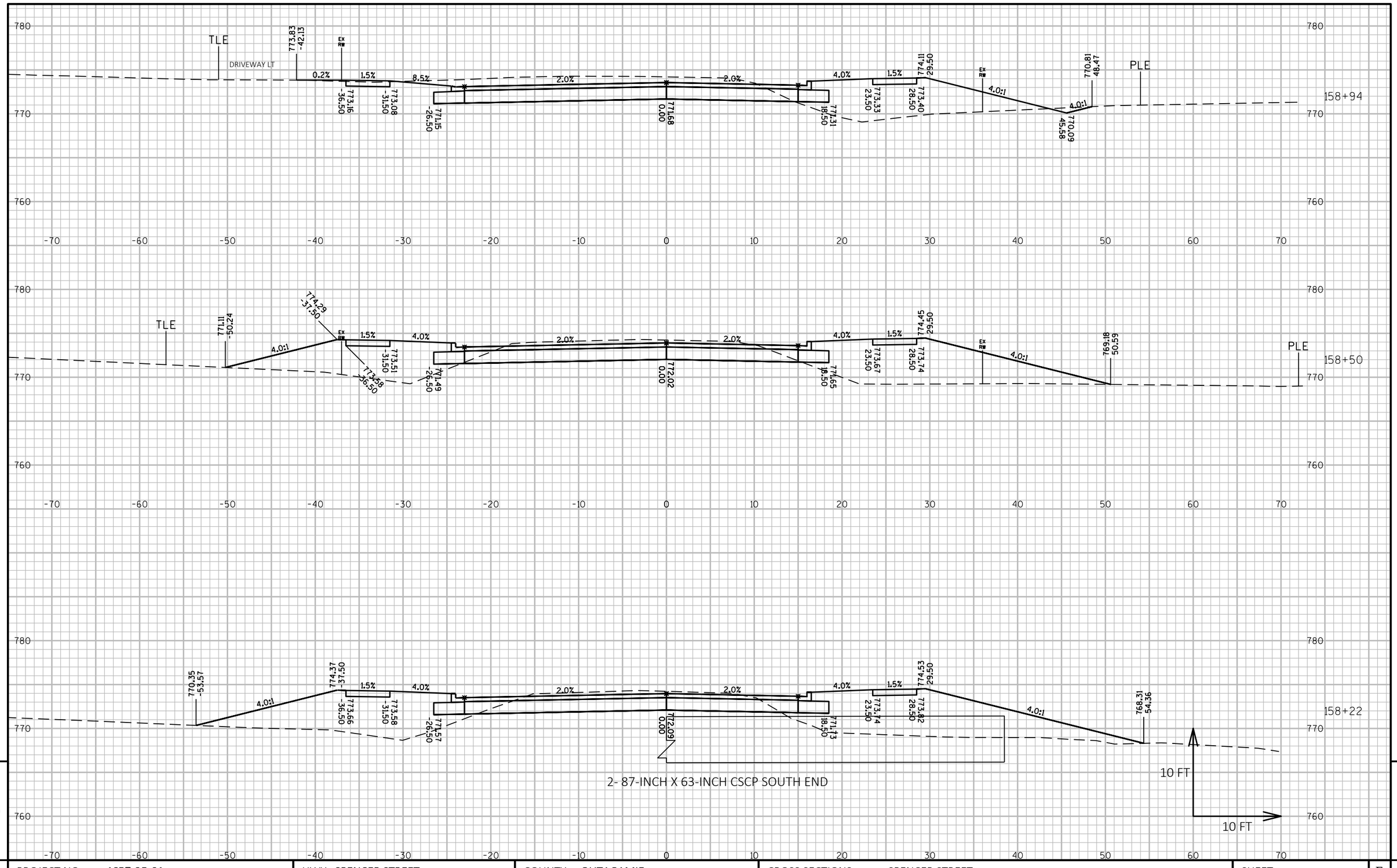


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 226	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 62 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

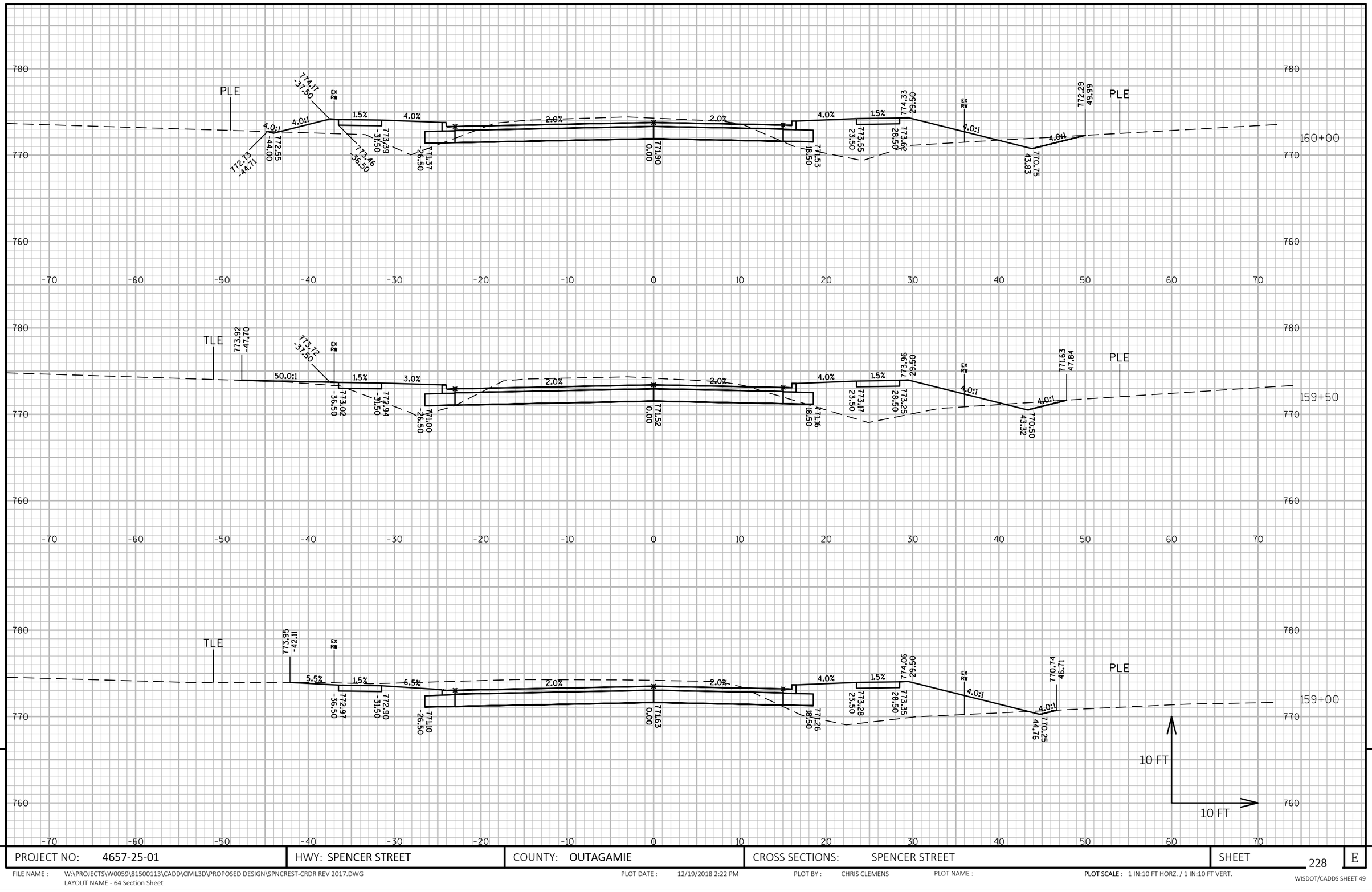


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 227	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 63 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

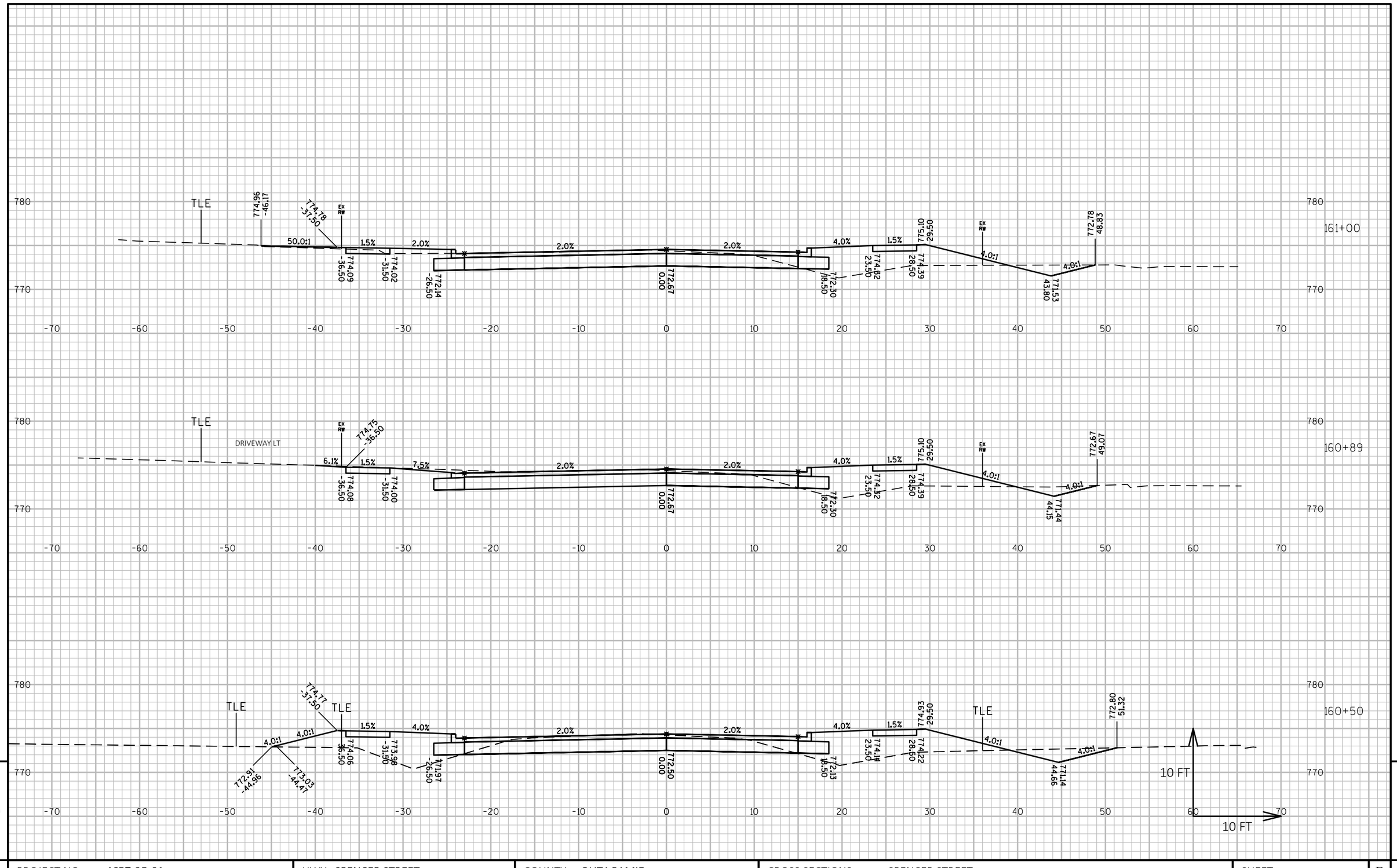
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 228	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 64 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

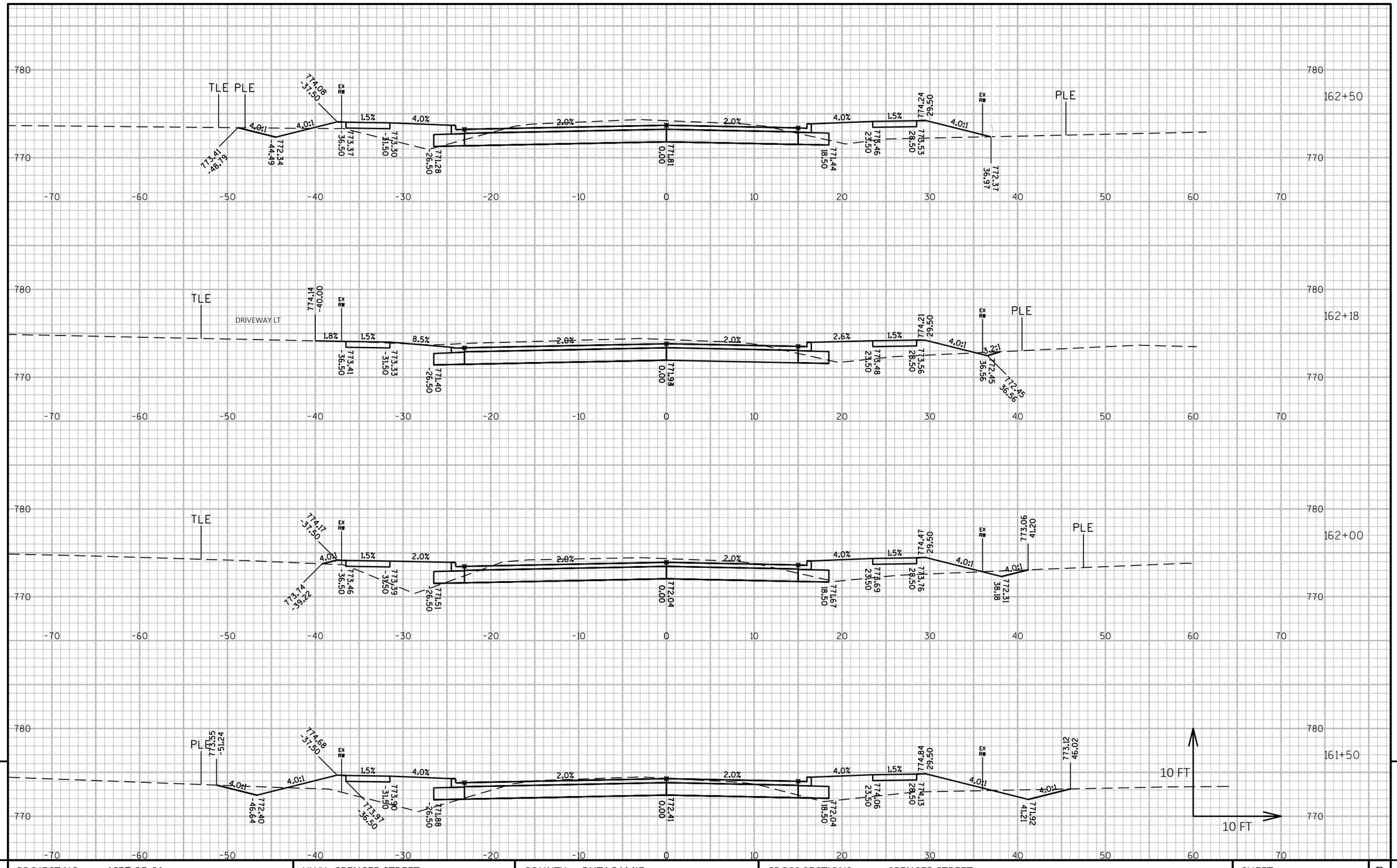


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 229	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 65 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

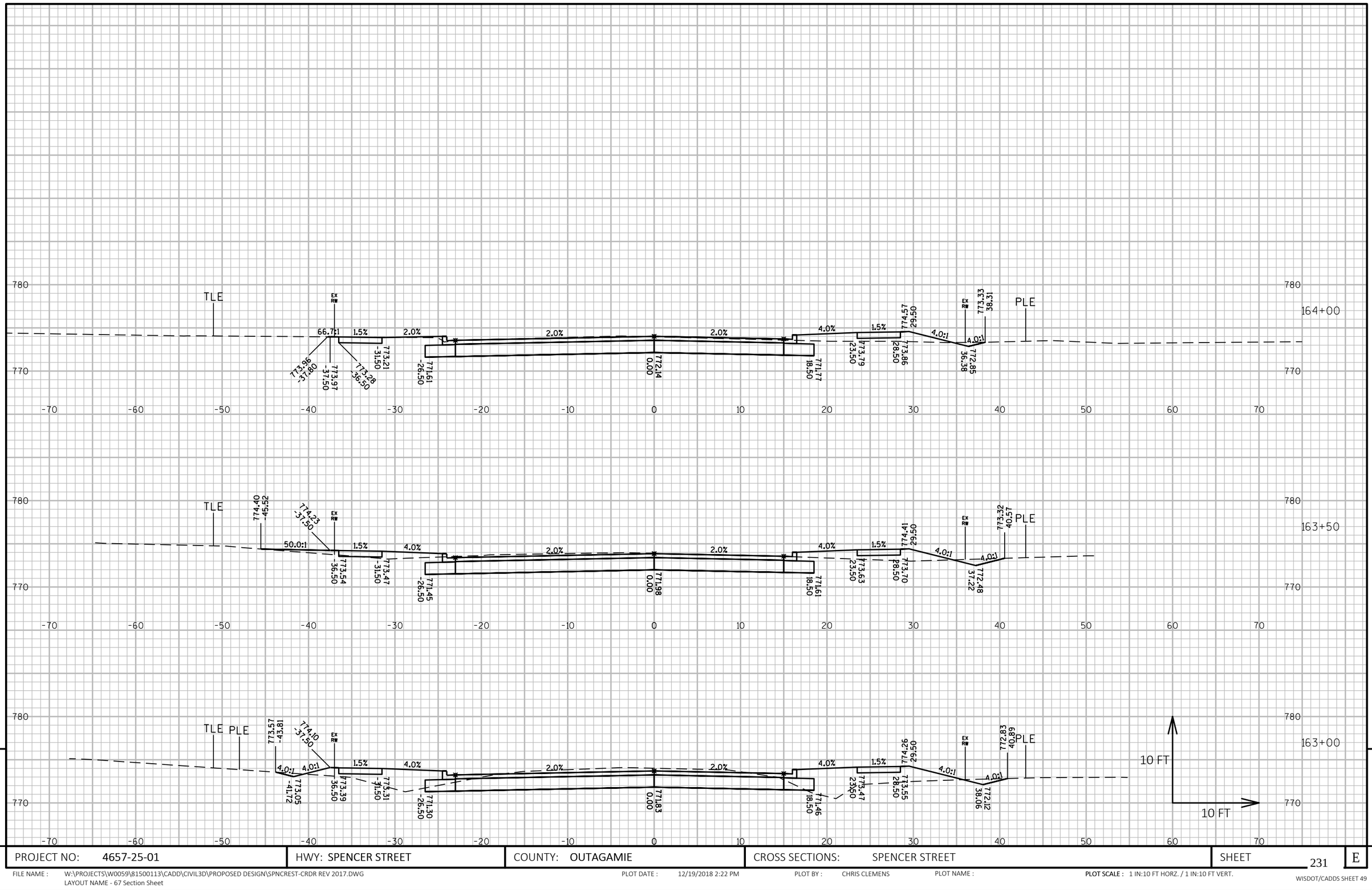
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 230	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 66 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

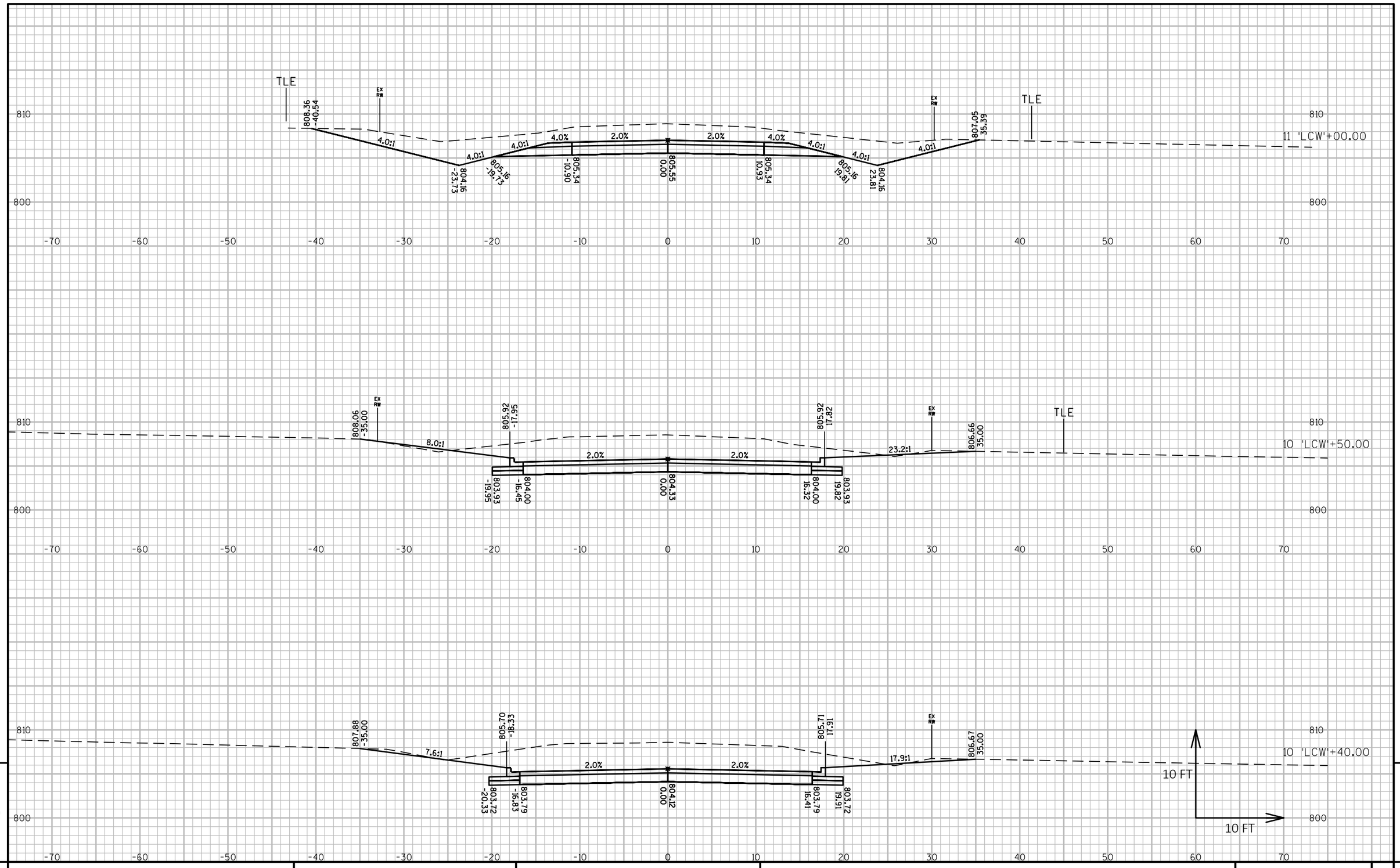
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: SPENCER STREET	SHEET 231	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPNCREST-CRDR REV 2017.DWG
LAYOUT NAME - 67 Section Sheet

PLOT DATE : 12/19/2018 2:22 PM PLOT BY : CHRIS CLEMENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

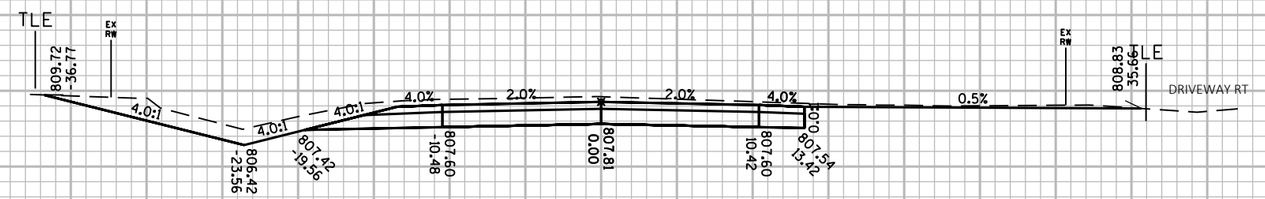
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: LONG COURT WEST	SHEET 232	E

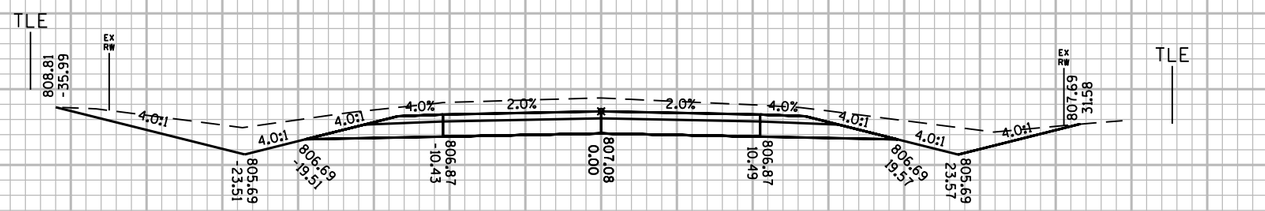
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - LCW-XS-1

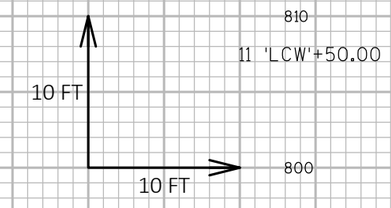
PLOT DATE : 12/19/2018 2:23 PM PLOT BY : CHRIS CLEMENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







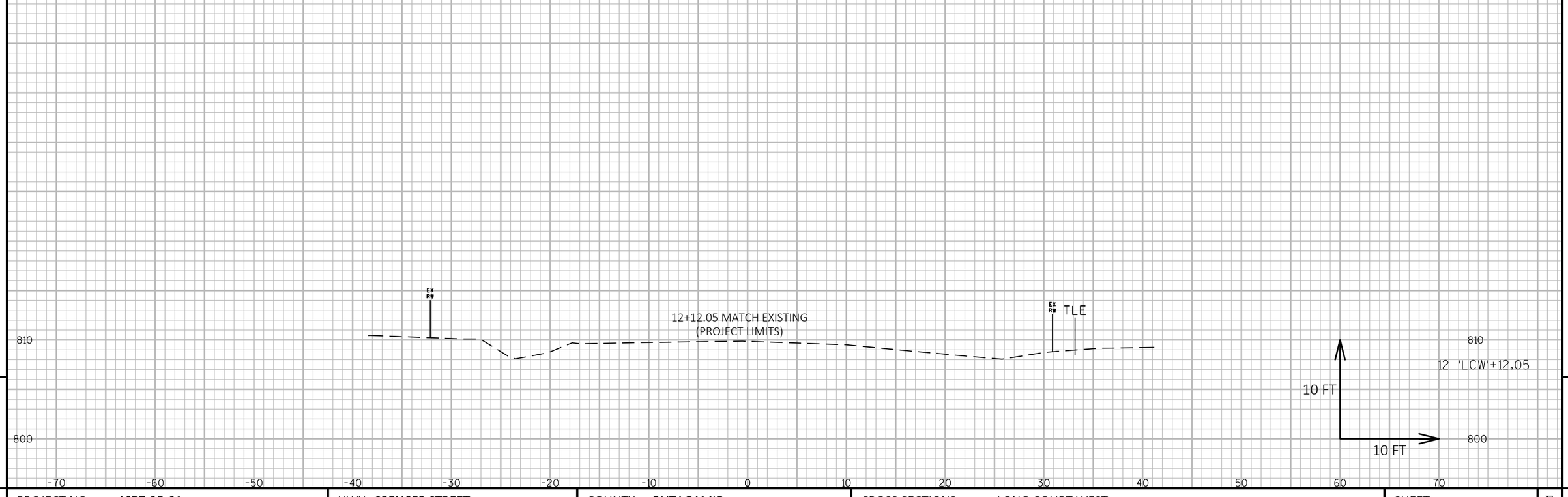
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: LONG COURT WEST	SHEET 233	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - LCW-XS-2

PLOT DATE : 12/19/2018 2:23 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

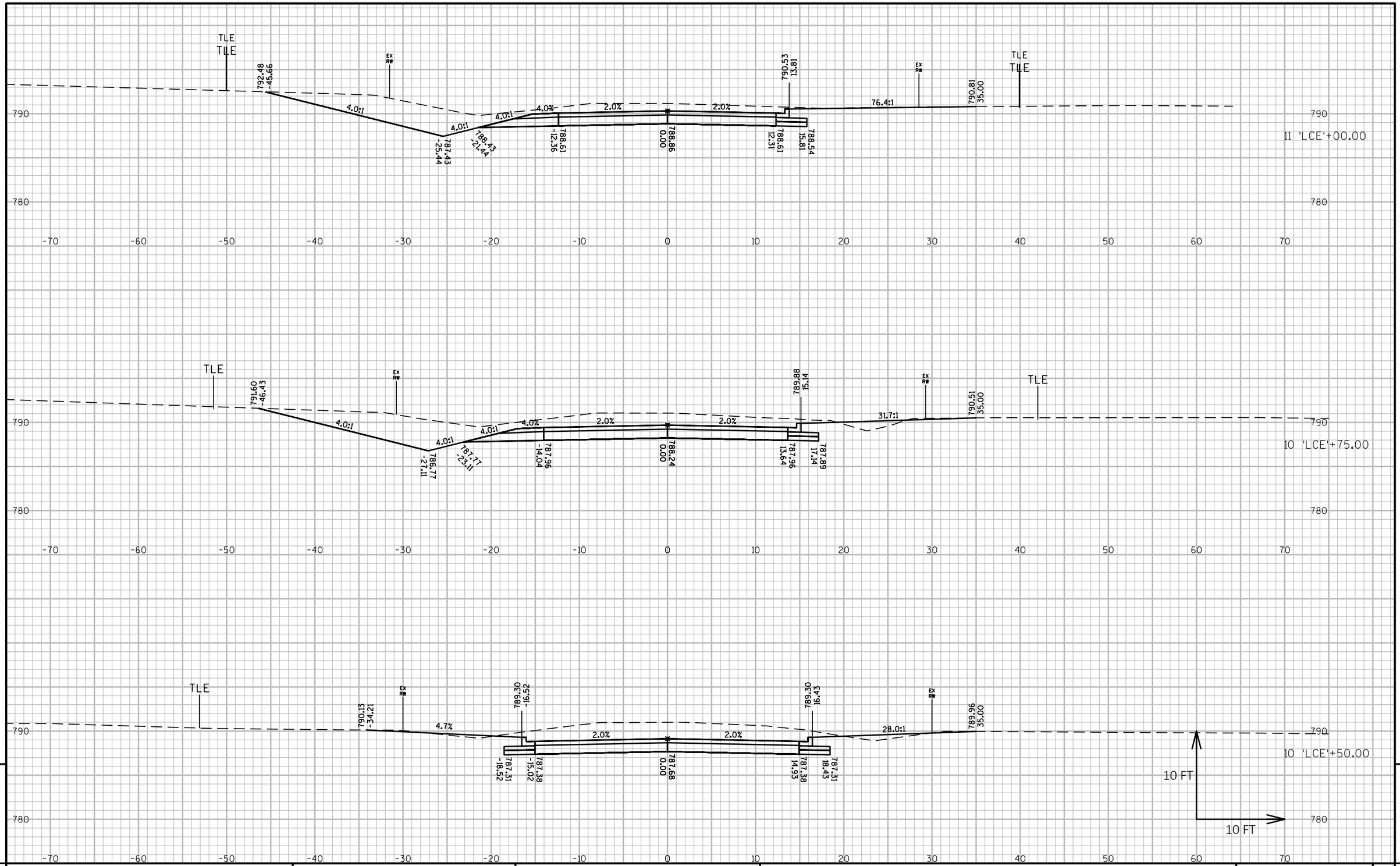
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: LONG COURT WEST	SHEET 234	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - LCW-XS-3

PLOT DATE : 12/19/2018 2:23 PM PLOT BY : CHRIS CLEMENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

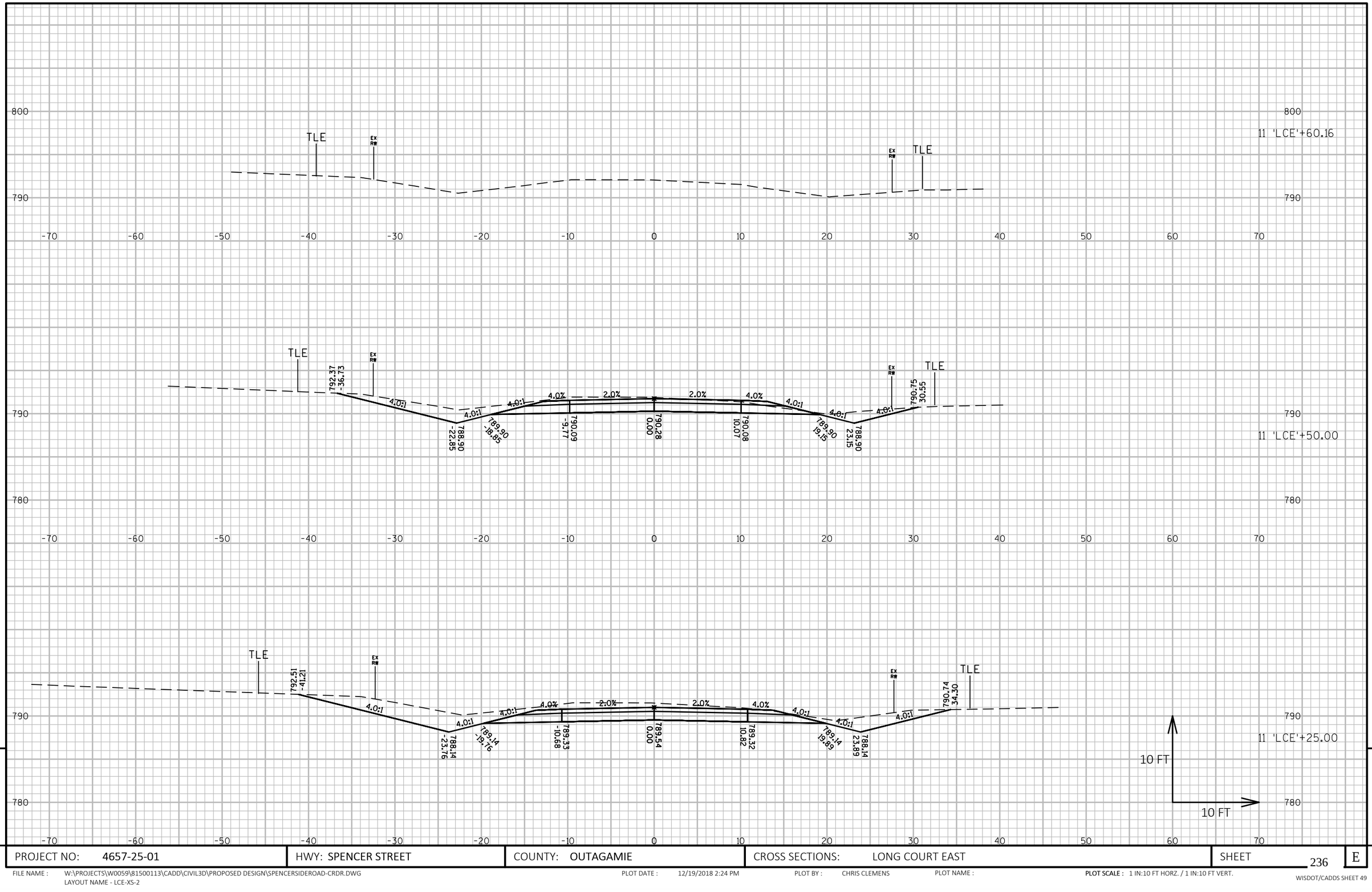
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: LONG COURT EAST	SHEET 235	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - LCE-XS-1

PLOT DATE : 12/19/2018 2:23 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

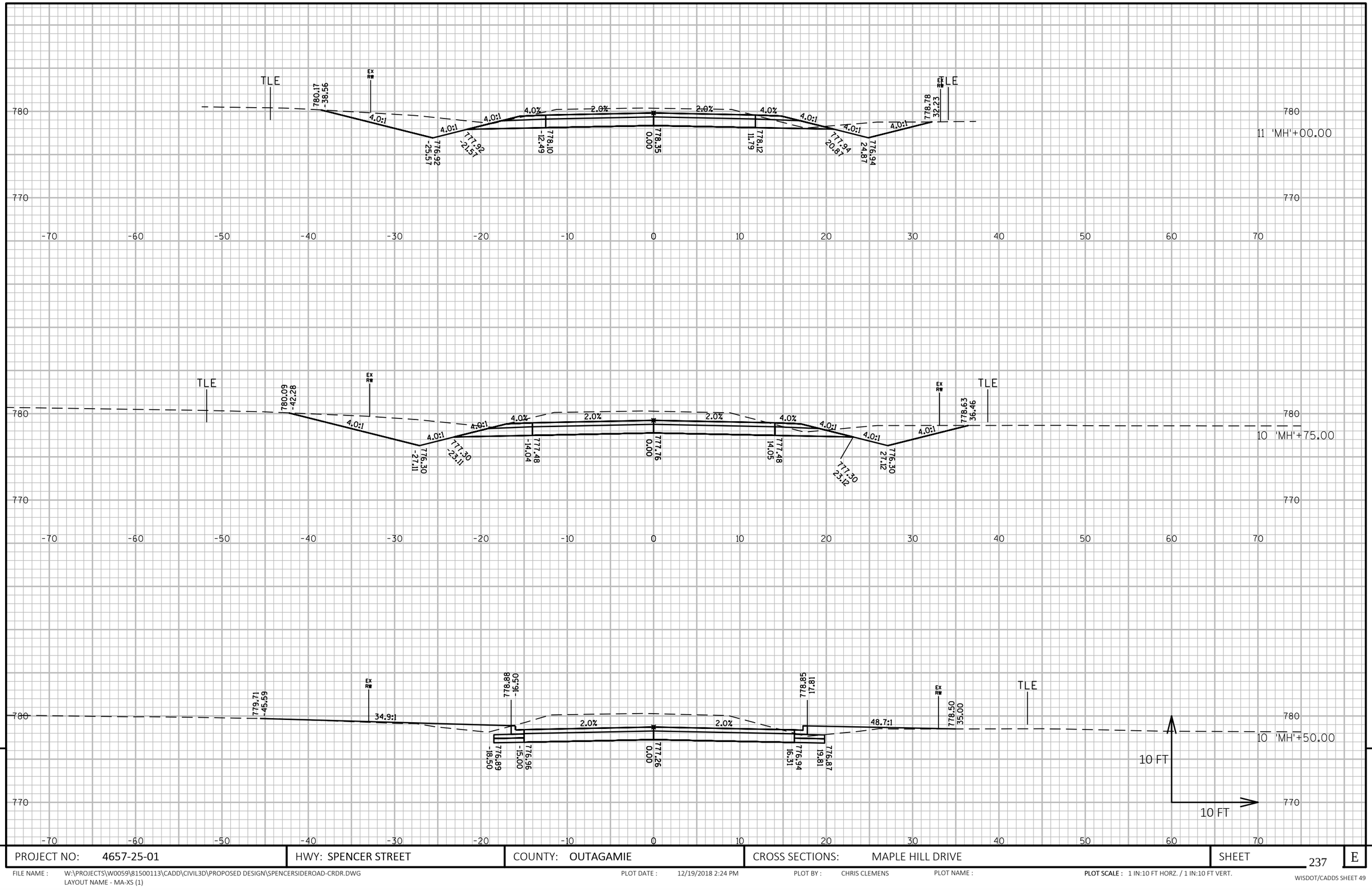


PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: LONG COURT EAST	SHEET 236 E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - LCE-XS-2

PLOT DATE : 12/19/2018 2:24 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

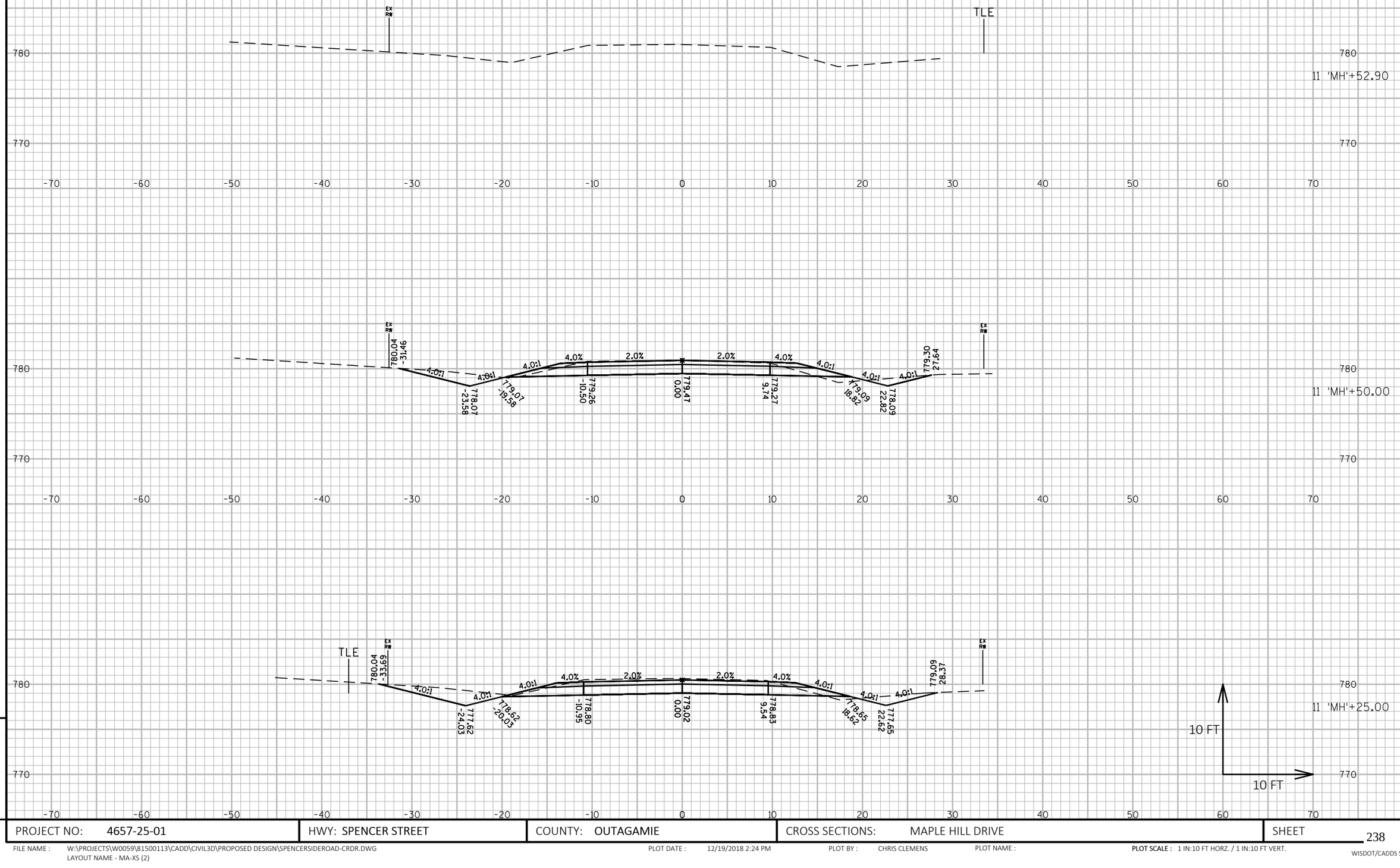
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: MAPLE HILL DRIVE	SHEET 237	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - MA-XS (1)

PLOT DATE : 12/19/2018 2:24 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

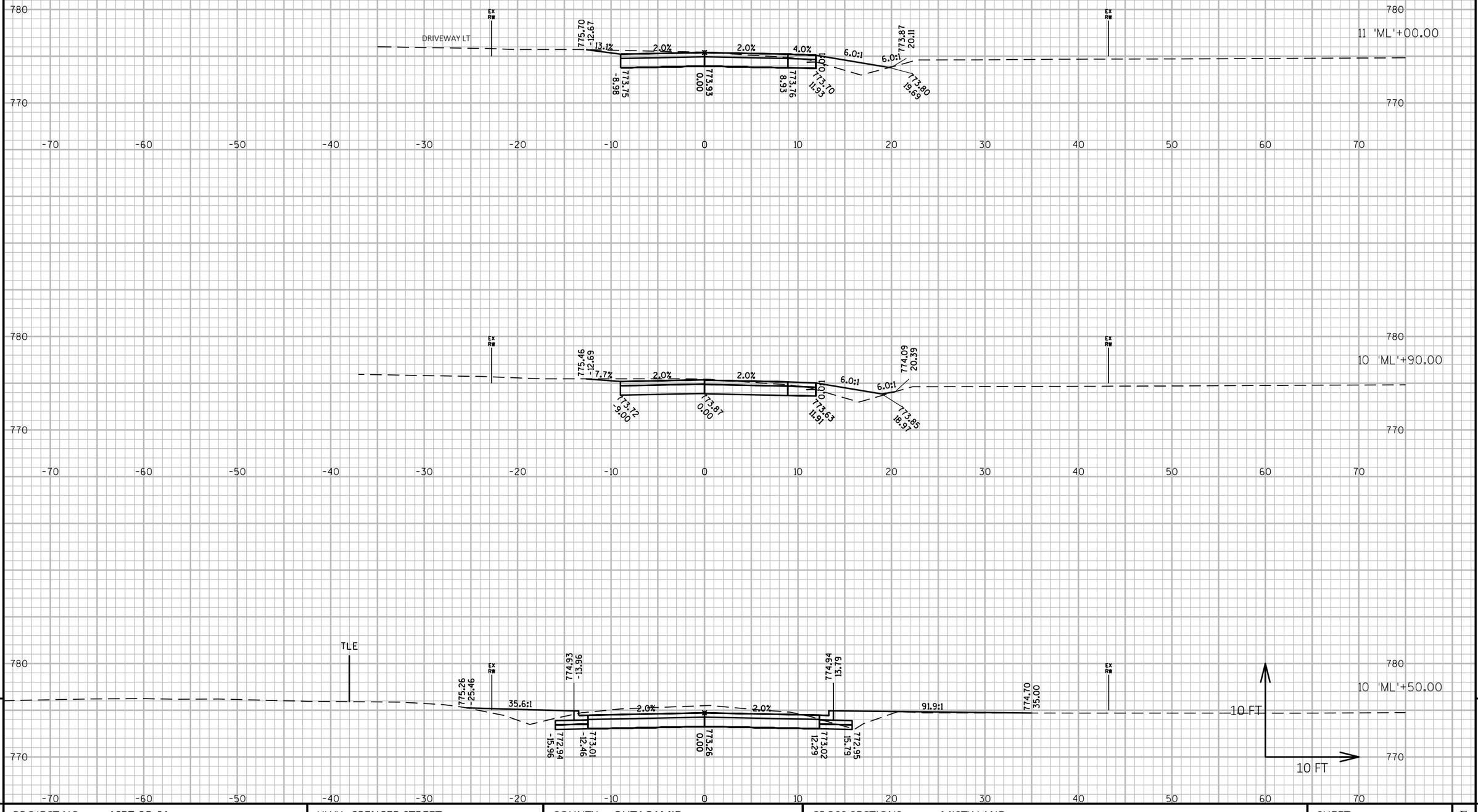
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: MAPLE HILL DRIVE	SHEET 238	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - MA-XS (2)

PLOT DATE : 12/19/2018 2:24 PM PLOT BY : CHRIS CLEMENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



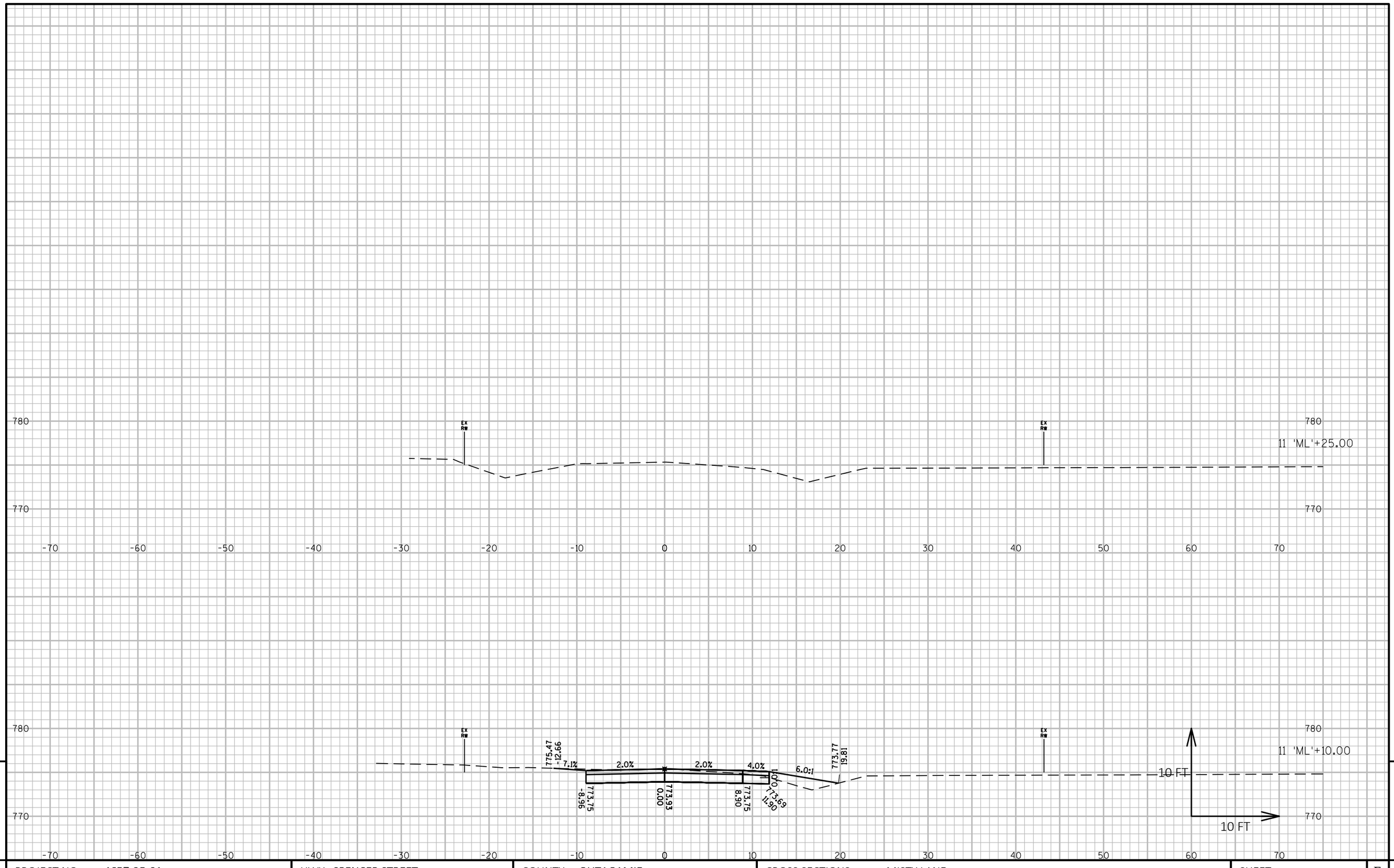
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: MISTY LANE	SHEET 239	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - MT-XS-(1)

PLOT DATE : 12/19/2018 2:24 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



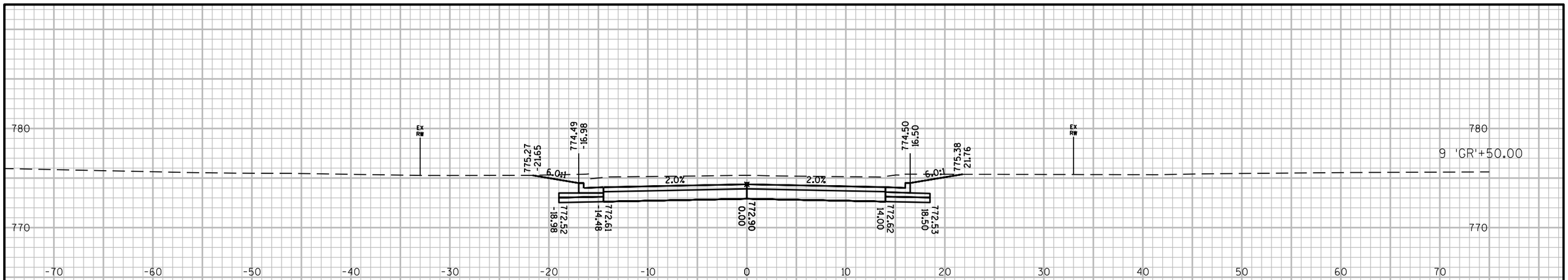
9

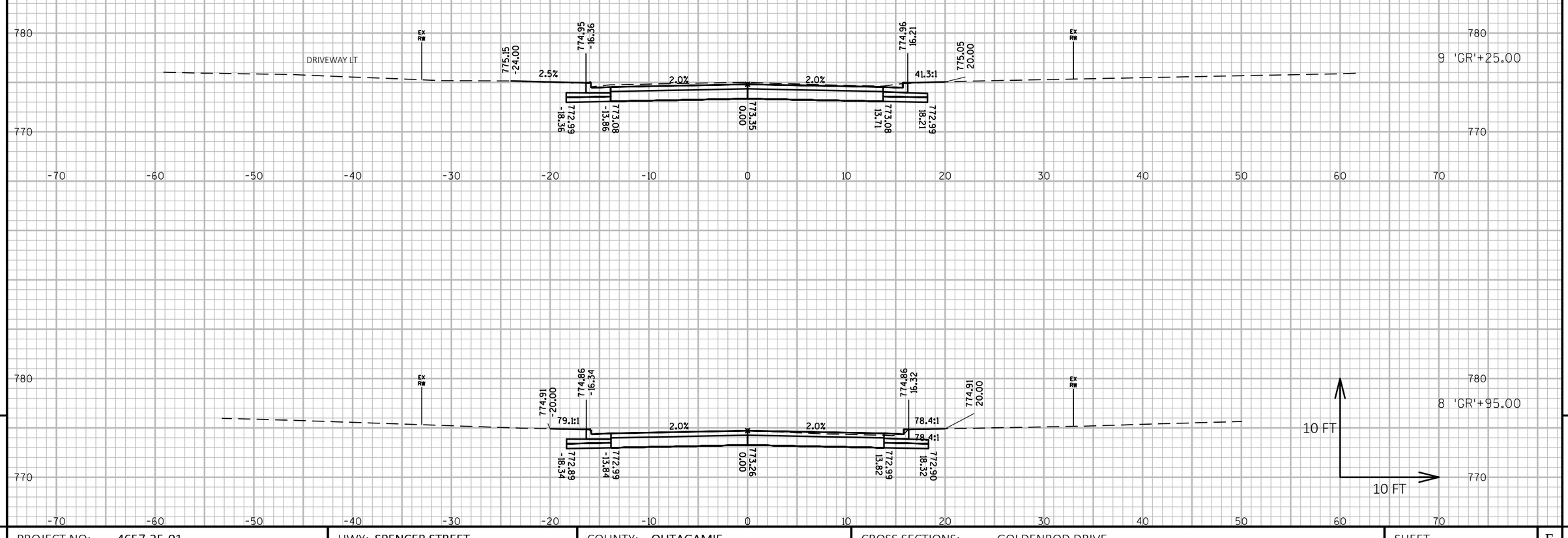
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: MISTY LANE	SHEET 240	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - MT-XS-(2)

PLOT DATE : 12/19/2018 2:24 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.





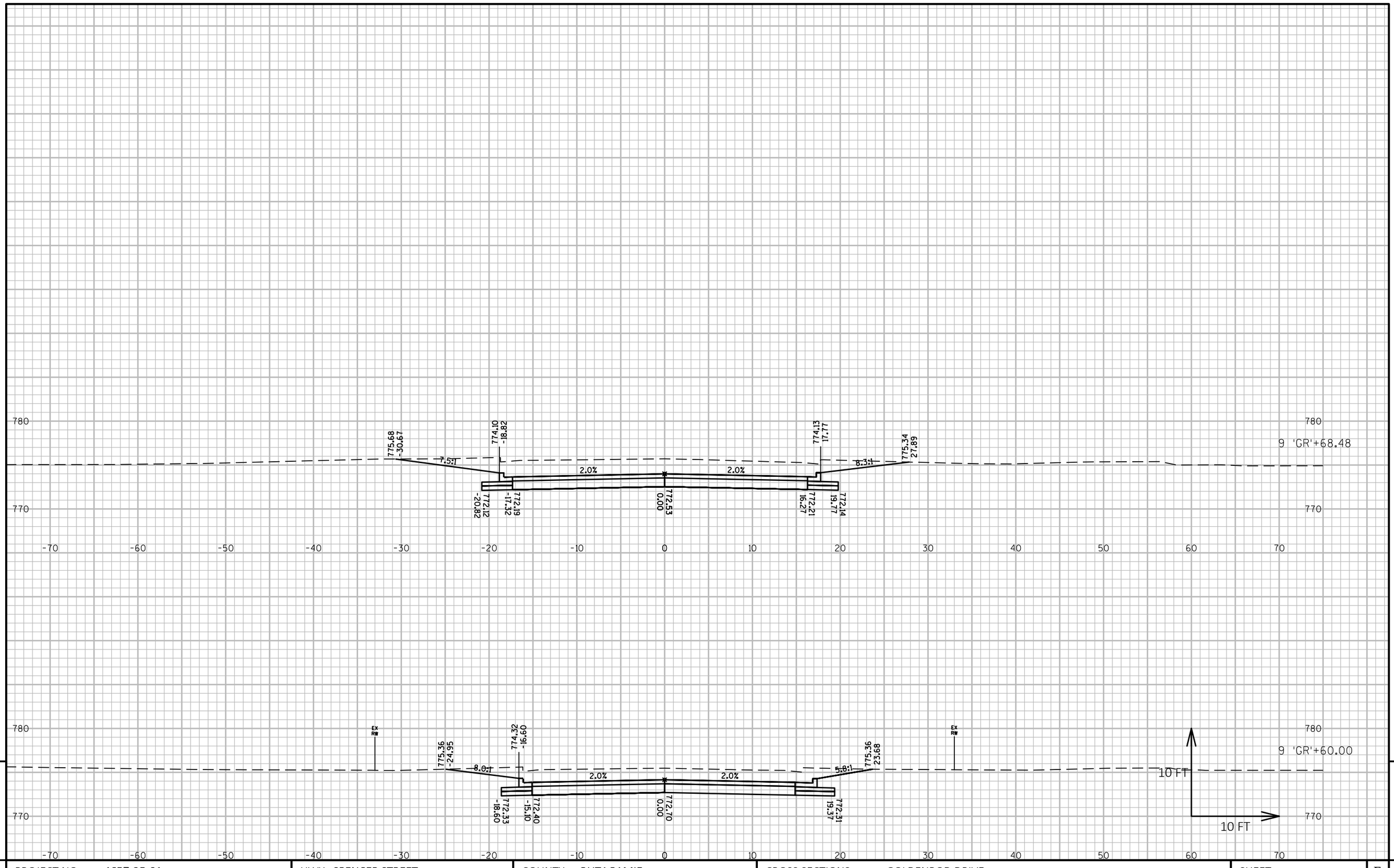
9

9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: GOLDENROD DRIVE	SHEET 241	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - GR-XS-1

PLOT DATE : 12/19/2018 2:24 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

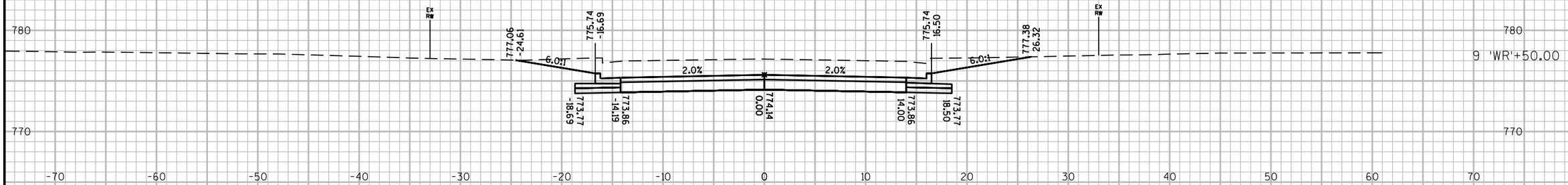
9

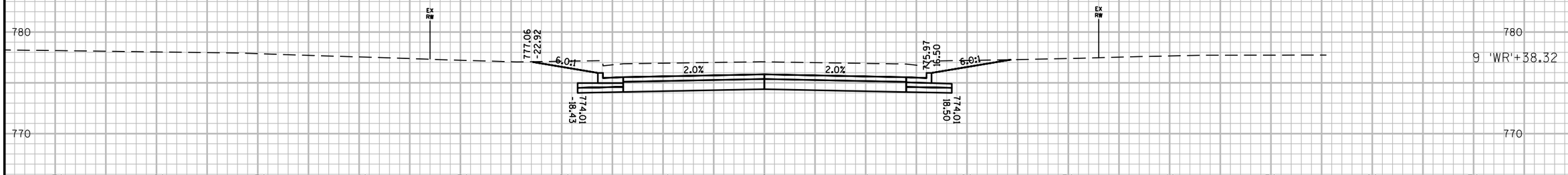
PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: GOLDENROD DRIVE	SHEET 242	E

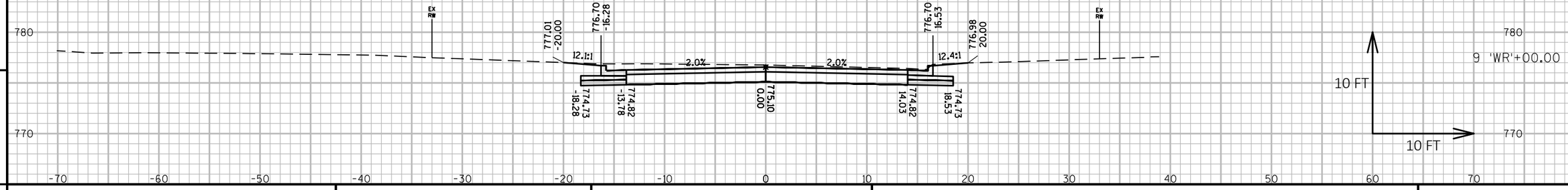
FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - GR-XS-2

PLOT DATE : 12/19/2018 2:25 PM PLOT BY : CHRIS CLEMENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.







9

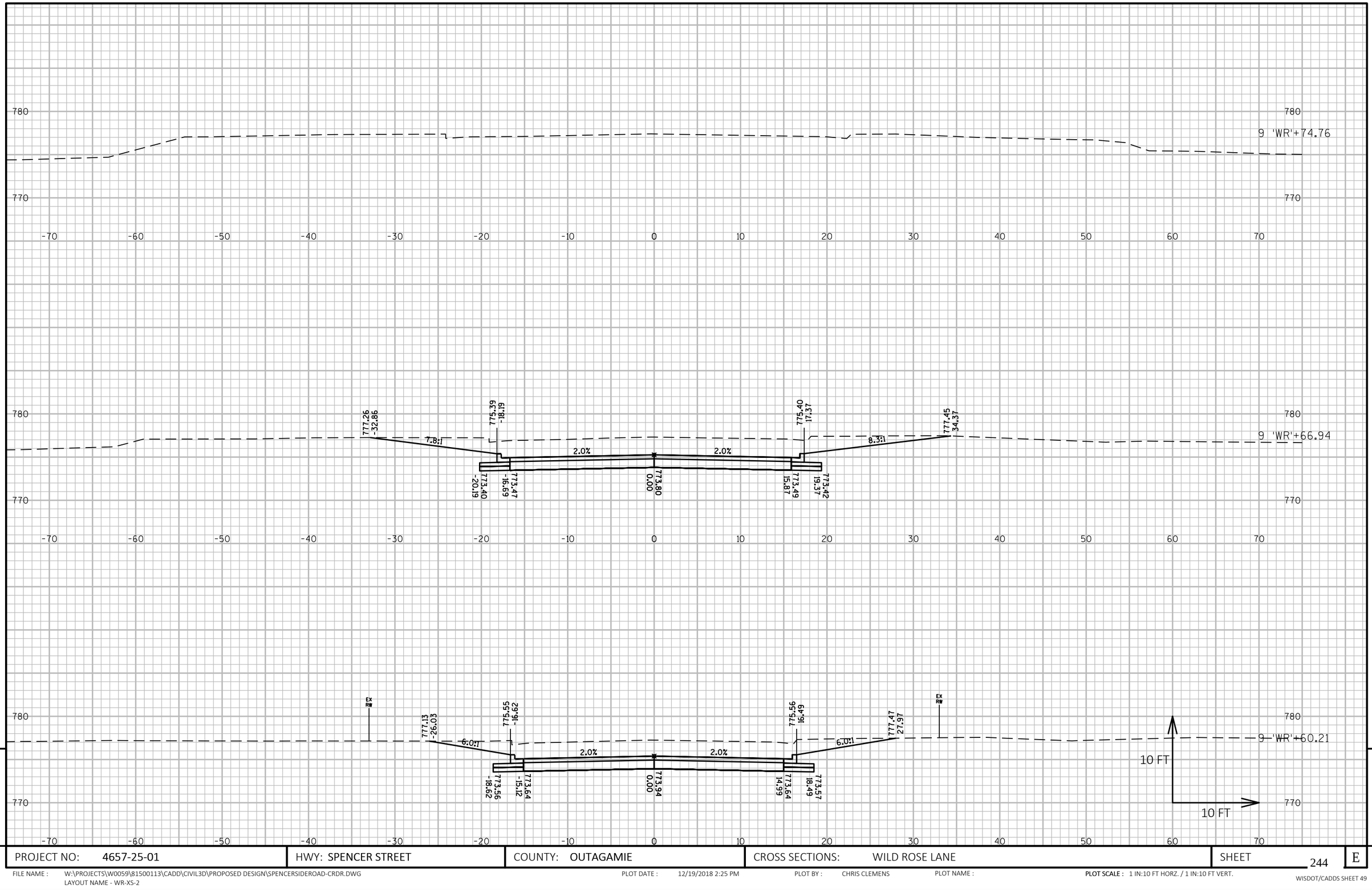
9

PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: WILD ROSE LANE	SHEET 243	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - WR-XS-1

PLOT DATE : 12/19/2018 2:25 PM PLOT BY : CHRIS CLEMENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 4657-25-01	HWY: SPENCER STREET	COUNTY: OUTAGAMIE	CROSS SECTIONS: WILD ROSE LANE	SHEET 244	E

FILE NAME : W:\PROJECTS\W0059\81500113\CADD\CIVIL3D\PROPOSED DESIGN\SPENCERSIDEROAD-CRDR.DWG
LAYOUT NAME - WR-XS-2

PLOT DATE : 12/19/2018 2:25 PM PLOT BY : CHRIS CLEMENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov