Section No.

TOTAL SHEETS =

DESIGN DESIGNATION

2027

2047

CONVENTIONAL SYMBOLS

= 27.880

= 30,320

= 16%

= 65 MPH/70 MPH

= 9,170,000

AADT

A.A.D.T.

DESIGN SPEED

D.H.V. D.D.

PLAN

LOTTINE

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

PROPERTY LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

(Box or Pipe)

MARSH AREA

PROPOSED CULVERT

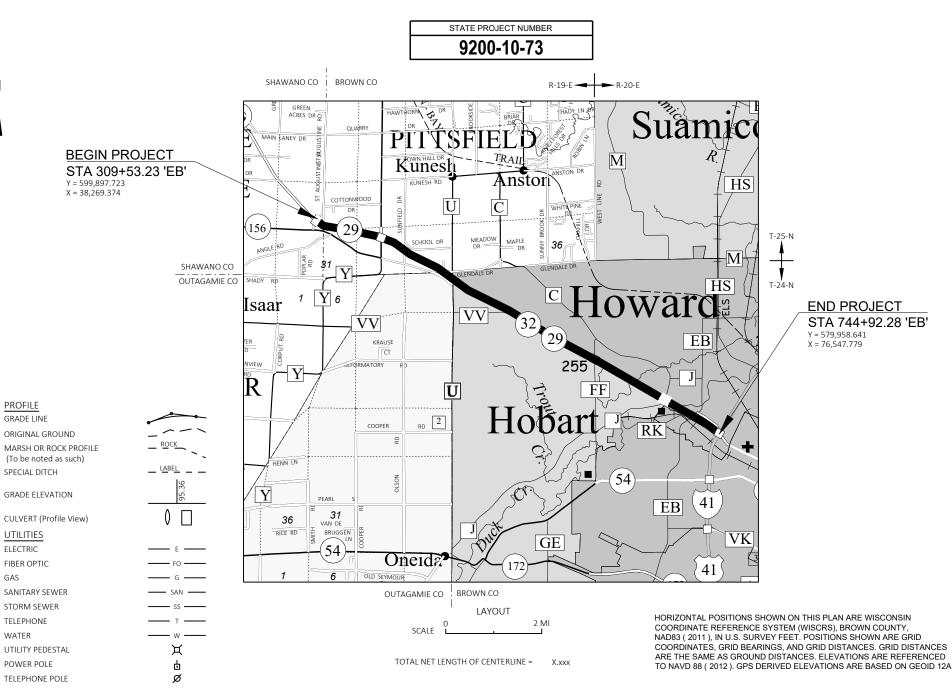
COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

STATE OF WISCONSIN ORDER OF SHEETS Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Right of Way Plat Section No. Section No. Plan and Profile Section No. Standard Detail Drawings Section No. **SHAWANO - GREEN BAY** Computer Earthwork Data

STH 156 - IH 41

STH 29 BROWN COUNTY



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

PROJECT

CONTRACT

STATE PROJECT

9200-10-73

PREPARED BY NE REGION Surveyor Designer Project Manage Regional Examiner

PPROVED FOR THE DEPARTMENT

(Signature)

Ε

FILE NAME: N:\PDS\C3D\92001001\SHEETSPLAN\010101-TI.DWG

9/13/2021 12:40 PM

LORENZ, KELSEY ANN

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

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

THE EXACT CONSTRUCTION LIMITS AND LOCATIONS OF ALL ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
TRAFFIC CONTROL
DETOUR PLAN
ALIGNMENT PLAN

DNR LIAISON

JIM DOPERALSKI JR. 984 SHAWANO AVE. GREEN BAY, WI 54313 JIM DOPERALSKI JR. (920)412-0165 james.doperalski@wisconsin.gov

BROWN COUNTY HIGHWAY COMMISSIONER

PAUL FONTECCHIO 2198 GLENDALE AVE. GREEN BAY, WI 54303 (920) 492-4925 fontecchio_pa@co.brown.wi.us

NE REGION SURVEY COORDINATOR

CORMAC MCINNIS, RLS 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920)492-5638 cormac.mcinnis@dot.wi.gov

WISDOT PROJECT MANAGER

ANDY FULCER, PE 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920) 362-6126 andrew.fulcer@dot.wi.gov

GENERAL NOTES

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		A			В		С		D			
	SLOPI	E RANGE	(PERCENT)	SL	OPE RANG	GE (PERCENT)	SLO	OPE RANG	GE (PERCENT)	SLOF	E RANGE	(PERCENT)
LAND USE:	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	.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 .25	.22	.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:					I							
ASPHALT	.7095											
CONCRETE	.8095 .7080 .7585											
BRICK												
DRIVES, WALKS												
ROOFS	.7595											
GRAVEL ROADS, SHO	OULDERS					.4060						

TOTAL PROJECT AREA = _____ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = ACRES

PROJECT NO: 9200-10-73 HWY: STH 29 COUNTY: BROWN

COMMUNICATIONS

UTILITIES CONTACTS

COMPANY NAME CONTACT NAME ADDRESS CITY, STATE, ZIP PHONE: EMAIL:



EMERGENCY CONTACT NUMBERS FOR WISCONSIN POWER AND LIGHT COMPANY

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-862-6261 GAS 24 HOUR EMERGENCY SERVICE: 1-800-862-6263

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-450-7240
GAS 24 HOUR EMERGENCY SERVICE: 1-800-450-7280

EMERGENCY CONTACT NUMBERS FOR WE ENERGIES
ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797

1 IN:10 FT

GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

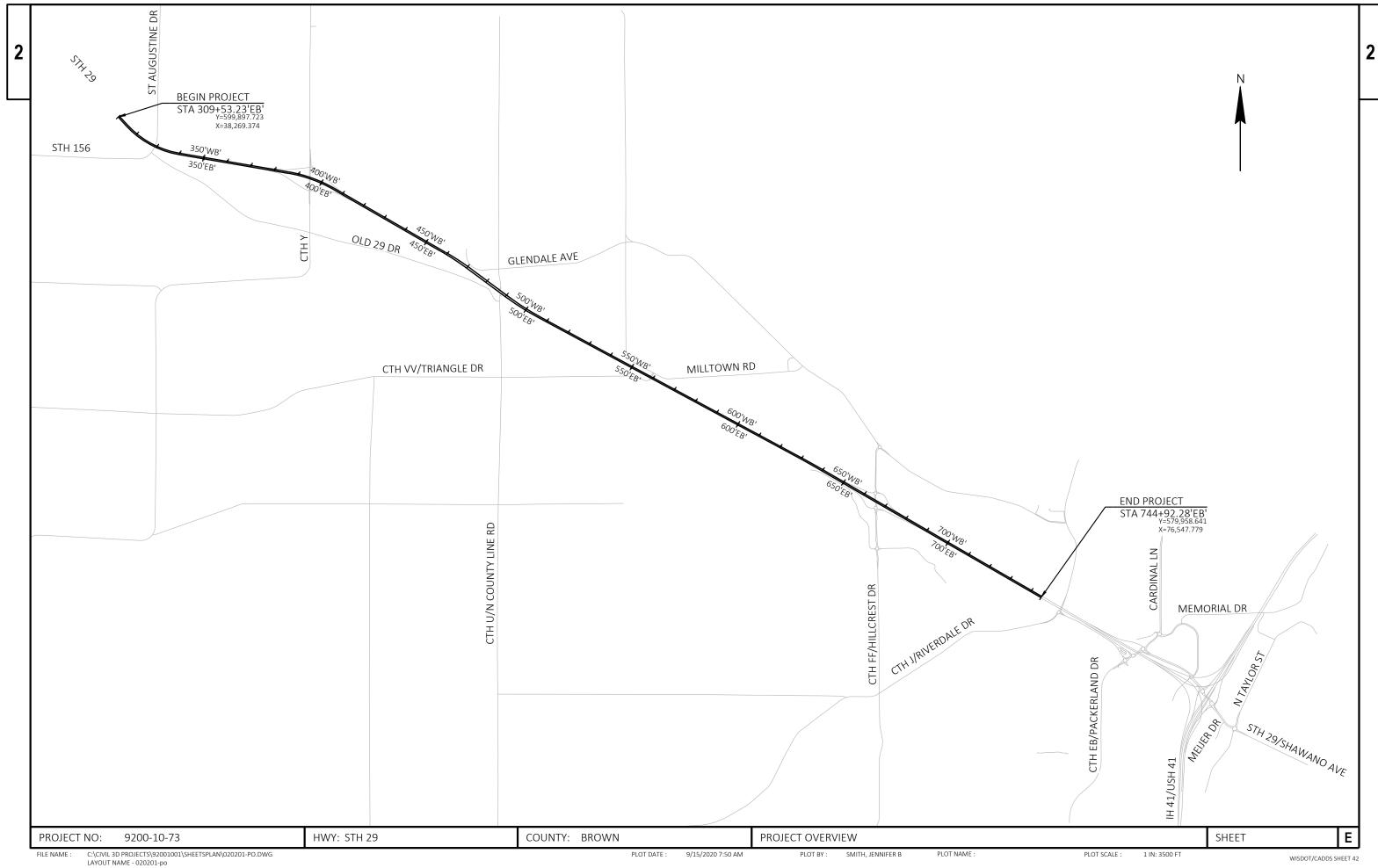
PLOT SCALE :

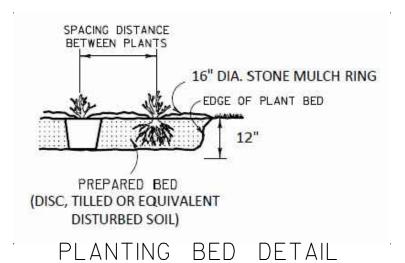
SHEET

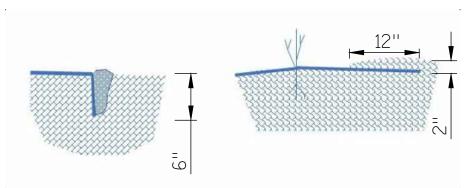
FILE NAME: N:\PDS\C3D\92001001\SHEETSPLAN\020101-GN.DWG PLOT DATE: 3/23/2021 9:44 AM PLOT BY: LORENZ, KELSEY ANN PLOT NAME: LAYOUT NAME - 020101-gn

WISDOT/CADDS SHEET 42

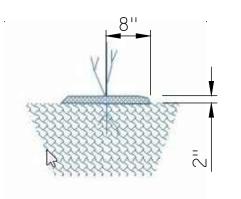
Ε







FABRIC EDGE DETAIL





GRAVEL RING DETAIL

Planting Process Expectations

ENDANGERED SPECIES EXPECTATIONS

- MOWING MUST BEGIN THE FIRST WEEK OF APRIL, TO A MAX HEIGHT OF 6-INCHES.
- MOWING MUST BE MAINTAINED UP TO THE DATE OF INSTALL TO PREVENT NESTING OF ENDANGERED SPECIES.
- CONTRACTOR WILL TAKE GREAT CARE TO WATCH FOR, AND REMOVE, ANY TURTLES FOUND WITHIN THE LIMITS OF THE PROJECT SITE FOR THE DURATION OF THE PROJECT.

INITIAL PLANTING

- 1. IF REQURIED PER THE PLAN SET CLEAR AND GRUB WOODY VEGETATION.
- 2. APPLY HERBICIDE TO PLANTING SITE TO KILL EXISTING WEEDS.
 - APPLY MINIMUM DAYS PRIOR TO CULTIVATING SITE BASED ON MANUFACTURERS APPLICATION INSTRUCTIONS
 - APPLICATOR MUST BE CERTIFIDED AND LICENSED.
- 2. MOW AND MAINTAIN SITE TO A HEIGHT NO MORE THAN 6-INCHES.
- 3. WITHIN 7 DAYS OF SEEDLING STOCK INSTALLATION PREPARE PLANTING BED BY DISCING, TILLING OR EQUIVALENT PROCESS.
 - MINIMUM SOIL DISTURBANCE TO BE 12-INCHES DEPTH AND 12-INCHES WIDTH PER ROW. SEE DETIAL.
- 4. SOAK SEEDLING STOCK ROOTS 1 TO 24 HOURS PRIOR TO PLANTING:
- 5. PLANT SEEDLING STOCK AND INSTALL SPECIFIED WEED BARRIER FABRIC OR EQUIVANT. PICK FROM TWO OPTIONS.

HA	HAND PLANTING OPTION		MACHINE PLANTING OPTION		
Α.	PLACE SPECIFIED WEED BARRIER FABRIC OR EQUIVILANT, SEE STEP 7 FOR MORE DETAILS.	Α.	MACHINE PLANT SEEDLING STOCK WITH PULL BEHIND PLANTER.		
B.	HAND PLANT SEEDLING STOCK THOURGH THE FABRIC	8.	PLACE SPECIFIED WEED BARRIER FABRIC OR EQUIVILANT. SEE STEP 7 FOR MORE DETAILS.		

- 6. FABRIC INSTALLATION SHALL FOLLOW THESE GUIDELINES
 - INSTALLATION SHALL BE THE WIDTH OF THE PLANTING BED, UNLESS APPROVED BY THE PROJECT EN GINEER.
 - . ALL PLANTS SHOULD INSTALLED BE 1.5-FEET FROM ALL EDGES OF THE FABRIC.
 - . WHEN CUTTING HOLES IN THE FABRIC INDIVIDUAL SLITS SHALL BE LARGE ENOUGH TO PULL THE SHRUB THROUGH AND NO MORE. EXCESS SPACE LEADS TO WEED COMPETION.
 - STAPLES SHALL BE PLACED ACCORDING TO MANUFACTURER'S RECOMMENDATION.
 - . CONTRACTOR SHALL SECURE THE OUTSIDE EDGE OF FABRIC BY EITHER CREATEING A 2-INCHE SOIL BERM ON THE OUTSIDE ONE FOOT OF FABRIC OR DEPRESS 6-INCHES OF OUTSIDE EDGE BELOW THE NATURAL GRADE TO PREVENT LIFTING. SEE DETAIL.
- 7. APPLY PRE-EMERGENT HERBICIDE AROUND PLANT FABRIC OPENINGS AND OUTSIDE MOWED EDGE.
 - APPLICATION MUST OCCUR AFTER THE FIRST GOOD RAIN AND SOIL SURFACE HAS DRIED.
 - APPLICATOR MUST BE CERTIFIDED AND LICENSED
- 8. INSTALL PEA GRAVEL LANDISCAPE MULCH ON TOP OF FABRIC AROUND EACH PLANT HOLE. SEE DETAIL.
 - . PEA GRAVEL MULCH SHALL BE USED TO PREVENT WEED GROWTH IN THE CUT SLITS MADE IN THE FABRIC.
 - . SWEEP AND/OR BLOW ANY SOIL, STRAW MULCH, OR OTHER DEBRIS OFF THE TOP OF THE FABRIC PRIOR TO THE PLACEMENT OF THE PEA GRAVEL MULCH.
 - APPLY MULCH AT A 2-INCH DEPTH AS PER THE LIVING SNOW FENCE LAYOUT DETAIL SHEET.
 - USE % INCH CRUSHED AND SCREENED STONE CHIPS IN PLACE OF THE PEA GRAVEL FOR STEEP SLOPES.

REPLACING DEAD SEEDLING STOCK (EACH SPRING FOLLOWING INTIAL PLANTING)

- 1. MOW OUTSIDE EDGES OF WEED FABRIC TO A HEIGHT NO MORE THAN 6"
- 2. APPLY PRE-EMERGENT TO OUTSIDE EDGES AND EXPOSED SOIL IN FABRIC OPENING.
- REMOVE ANY DEAD PLANT.
- 4. CREATE A DISTURBED SOIL STATE TO A DEPTH OF 12-INCHES
- 5. INSTALL SEEDLING STOCK REPLACEMENTS
- 6. BEGIN CARE CYCLE MAINTENANCE

CARE CYCLE MAINTENANCE

- 1. TO BE PERFORMED AT A MINIMUM OF EVERY TWO WEEKS. TO A MAX OF 13 TOTAL CARE CYCLES PER GROWING SEASON
- 2. CONTROL WEEDS
 - HAND PULL WEEDS
 - SELECTIVE HERBICIDE TREATMENT WITH CAUTION
 - WEED EATERS/W HACKERS ARE NOT RECOMMENDED DUE HIGH POTENTIAL OF DAMAGE TO SEEDLINGS

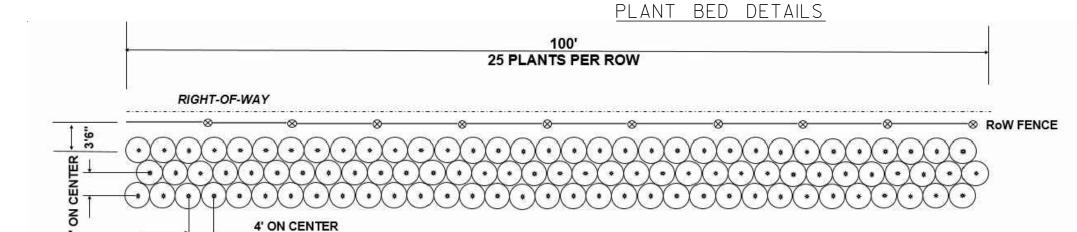
PLOT BY : WISNIEWSKI, PETER S PLOT NAME : _____PLOT SCALE : 2.408121

- 4. MOW SEVERAL TIMES IN THE SEASON TO CONTROL ENCROACHMENT OF UNWANTED VEGETATION.
 - OUTSIDE EDGES OF PLANTING AREA BY 3 TO 5-FEET
- 5. SUBMIT CARE CYCLE REPORTS EVERY CARE EVENT

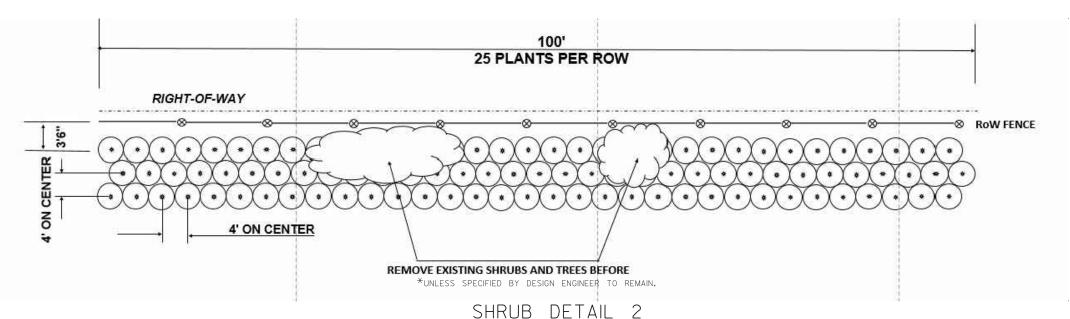
COUNTY: BROWN PROJECT NO: 9200-10-73 HWY: HWY 29

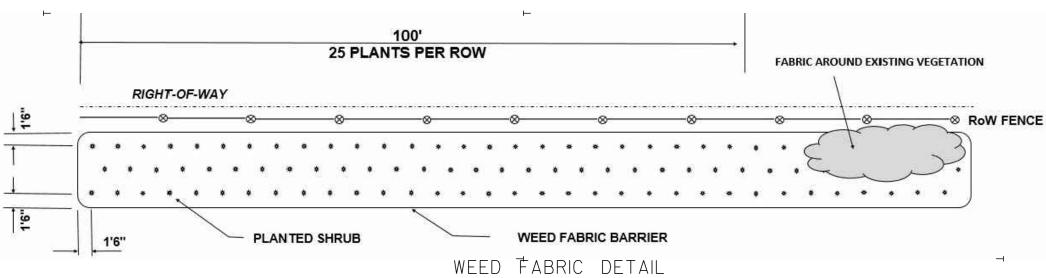
PLAN: PLANTING GUIDELINES





SHRUB DETAIL 1





GENERAL
WEED BARRIER LIMITS-WEED BARRIER IS TO EXTEND
BEYOND THE OUTER PLANTS TO A MINIMUM DISTANCE

BASE LINE-IF A BASE LINE IS SHOWN, AT LEAST THE FIRST ROW OF PLANTS SHALL FOLLOW THE LINE.

PLANTING-SHRUBS ARE TO BE PLANTED IN INDIVIDUAL HOLES OR IN CONTINUOUS TRENCH AS SPECIFIED ON THE "PLANT DATA CHART," IF PLANTED IN A TRENCH, THE TRENCH SHALL BE AS DEEP AND AS WIDE AS THAT SPECIFIED FOR INDIVIDUAL HOLES ON THE "PLANT DATA CHART," EXCESS EXCAVATED MATERIAL MAY BE DISPOSED OF BETWEEN THE HOLES OR TRENCH IF IN THE JUDGEMENT OF THE ENGINEER IT DOES NOT CAUSE EROSION OR DAMAGE PROBLEMS. IF THIS IS DONE, PLANT ELEVATIONS WILL BE ADJUSTED ACCORDINGLY AND THE ENTIRE BED AREA WILL BE RAKED OR OTHERWISE FINISHED TO PRODUCE A UNIFORM SURFACE CONFORMING TO THE ORIGINAL SHAPE AND CONTOUR. THE ENTIRE BED AREA SHALL BE PLANTED.

SHEET

Ε

WISDOT/CADDS SHEET 42

PLAN: PLANTING DETAILS

Common Name	Latin Name	Mature Height	Soil Moisture Tolerance	Winter Hardiness
Dogwood, Silky	Cornus amomum	10' (3 m)	Wet to dry mesic	South half of the state
Dogwood, Grey	Cornus racemosa	10' (3 m)	Wet mesic to dry	Statewide
Dogwood, Redosier	Cornus sericea	8' (2.5m)	Wet to dry mesic	Statewide
Filbert, American	Corylus americana	8' (2.5m)	Wet mesic to dry	Statewide
Ninebark, Common	Physocarpus opulifolius	10' (3 m)	Wet to dry	Statewide
Plum, American	Prunus americana	15' (4.5 m)	Mesic to dry	South half of the state
Viburnum, American Cranberrybush	Viburnum trilobum	12' (4 m)	Wet to dry mesic	Statewide
Willow, Sandbar	Salix exigua	18' (5 m)	Wet to dry mesic	Statewide
Buttonbush, Common	Cephalanthus	18' (5m)	Wet to dry mesic	Statewide

NOTES:

Ε

^{1.} LAYOUT AND STAKING OF PLANT MATERIALS TO BE VERIFIED BY ENGINEER PRIOR TO INSTALLATION.

^{2.} SEE PLANT BED DETAILS SHEET 2.2 FOR SPACING OF DECIDUOUS SHRUBS.

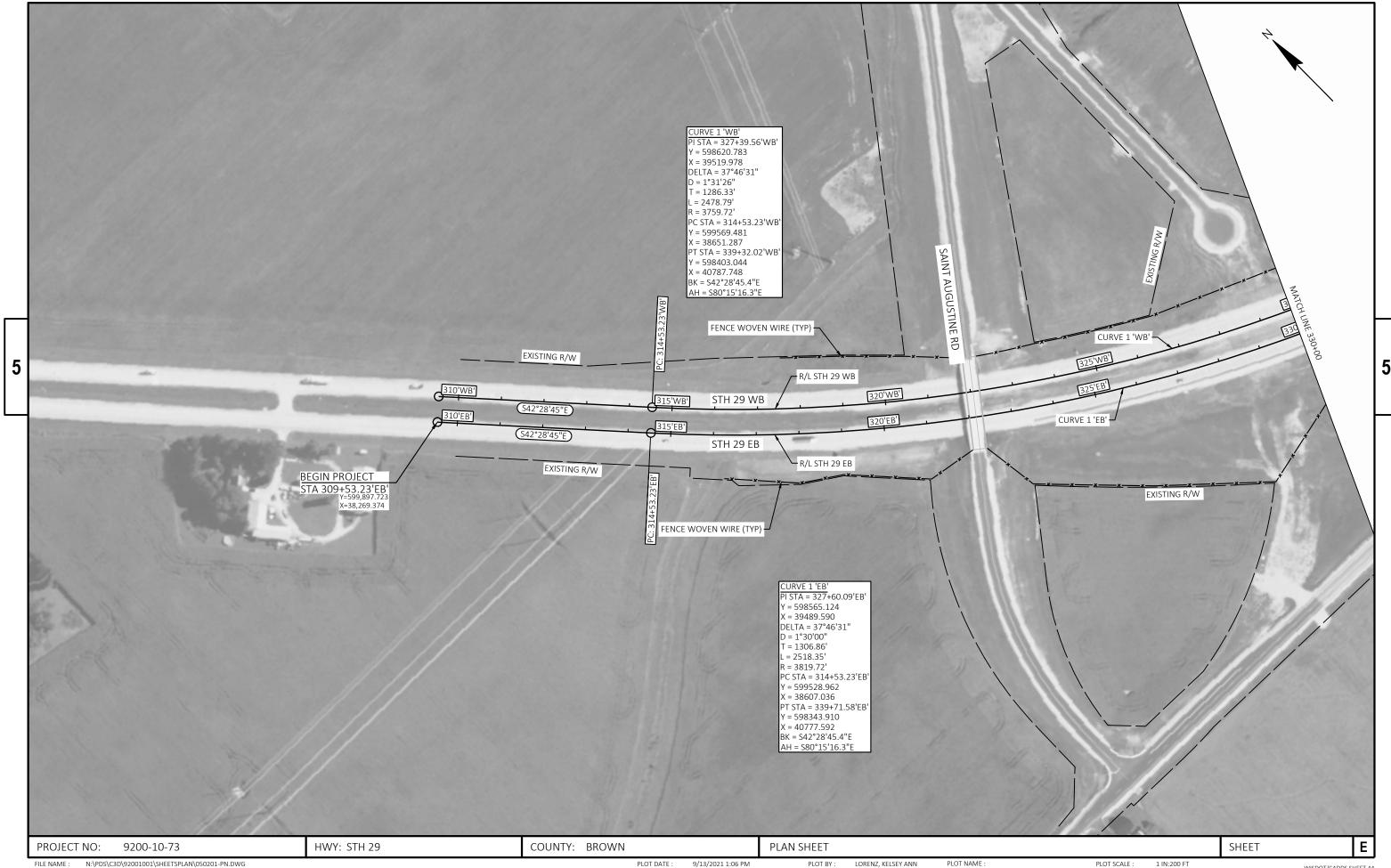
^{3.} A VARIETY OF NO LESS THAN 3 SPECIES SHALL BE CHOSEN FROM THE ABOVE LIST, WITH ANY CHOSEN SPECIES COMPRISING OF AT LEAST 20% OF THE TOTAL PLANT MATERIAL COUNT. ANY DEVIATIONS WILL BE SPELLED OUT IN THE PLAN SET OR MUST BE APPROVED BY THE PROJECT ENGINEER.

^{4.} PLANTINGS TO BE PROTECTED BY WEED BARRIER FABRIC TO 1.5' AROUND EACH SHRUB.

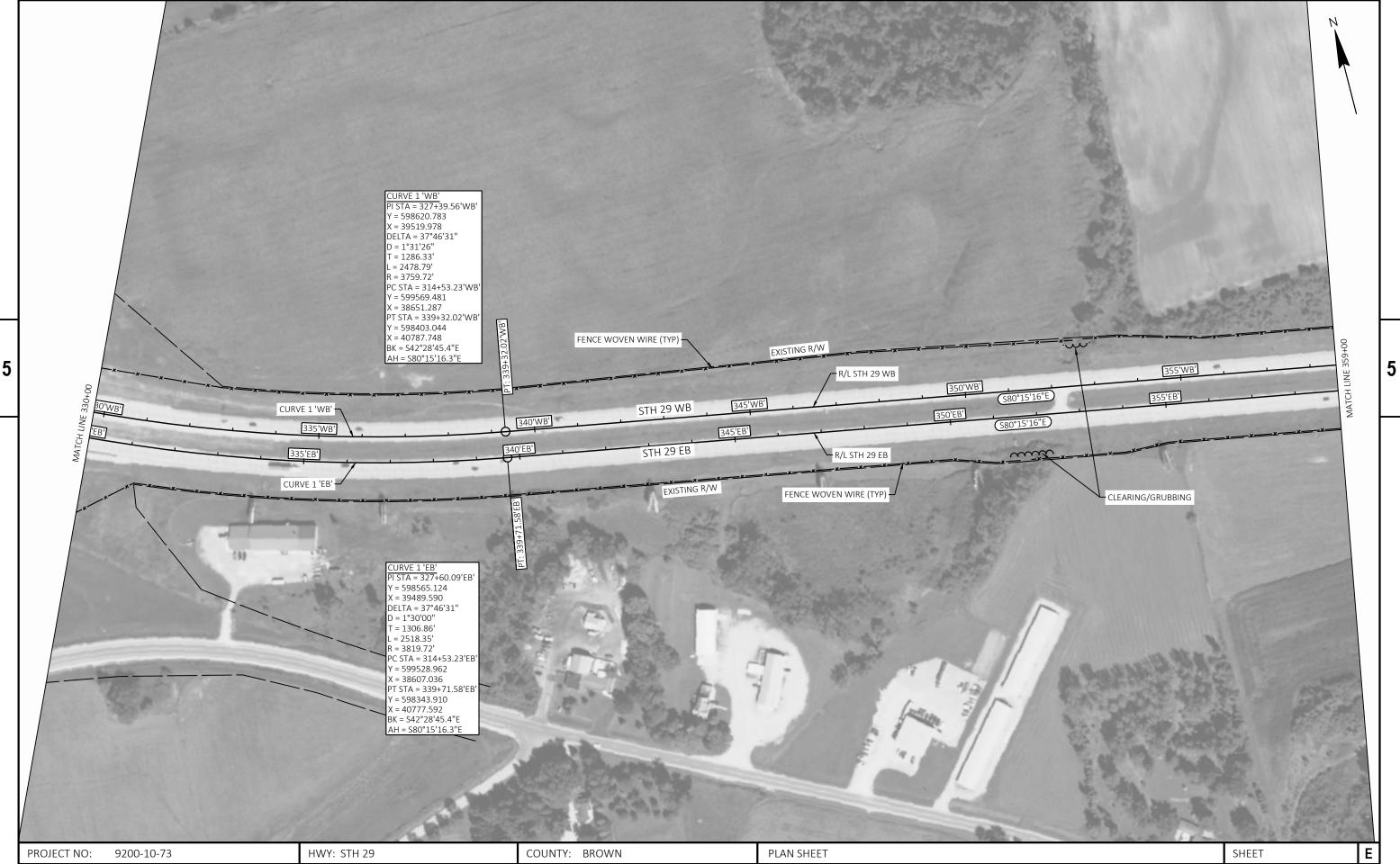
^{5.} THE FOLLOWING PLANT SPECIES ARE RECOMMENDED FOR WET AREAS: COMMON BUTTONBUSH, RED OSIER DOGWOOD, AND SANDBAR WILLOW.



N:\PDS\C3D\92001001\SHEETSOTHER\LIVING SNOW FENCE.DWG LAYOUT NAME - 050208-pn WISDOT/CADDS SHEET 44



LAYOUT NAME - 050201-pn



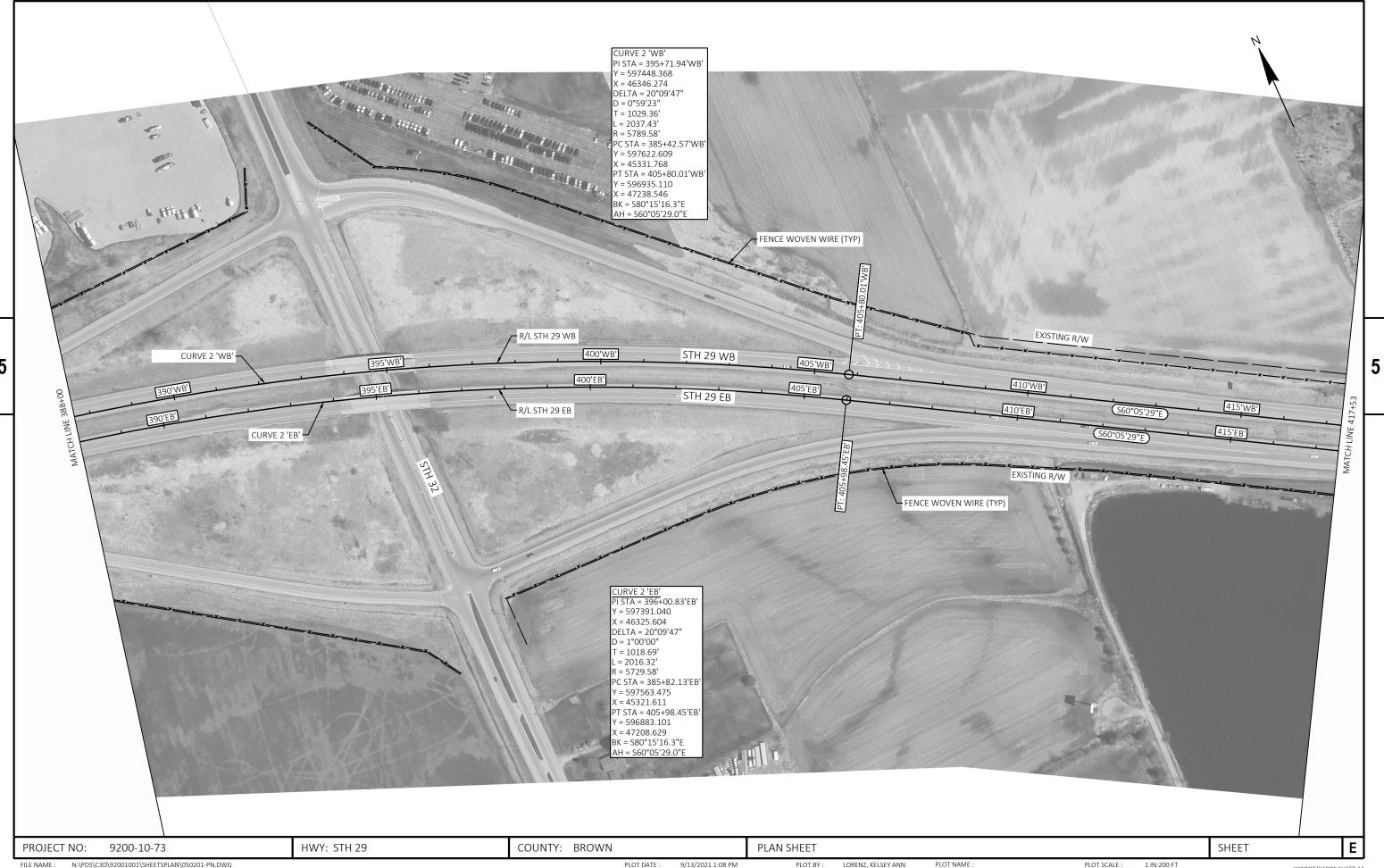
FILE NAME: N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG
PLOT DATE: 9/13/2021 1:07 PM
PLOT BY: LORENZ, KELSEY ANN
PLOT NAME: PLOT SCALE: 1 IN:200 FT
WISDOT/CADDS SHEET 44

WISDOT/CADDS SHEET 44

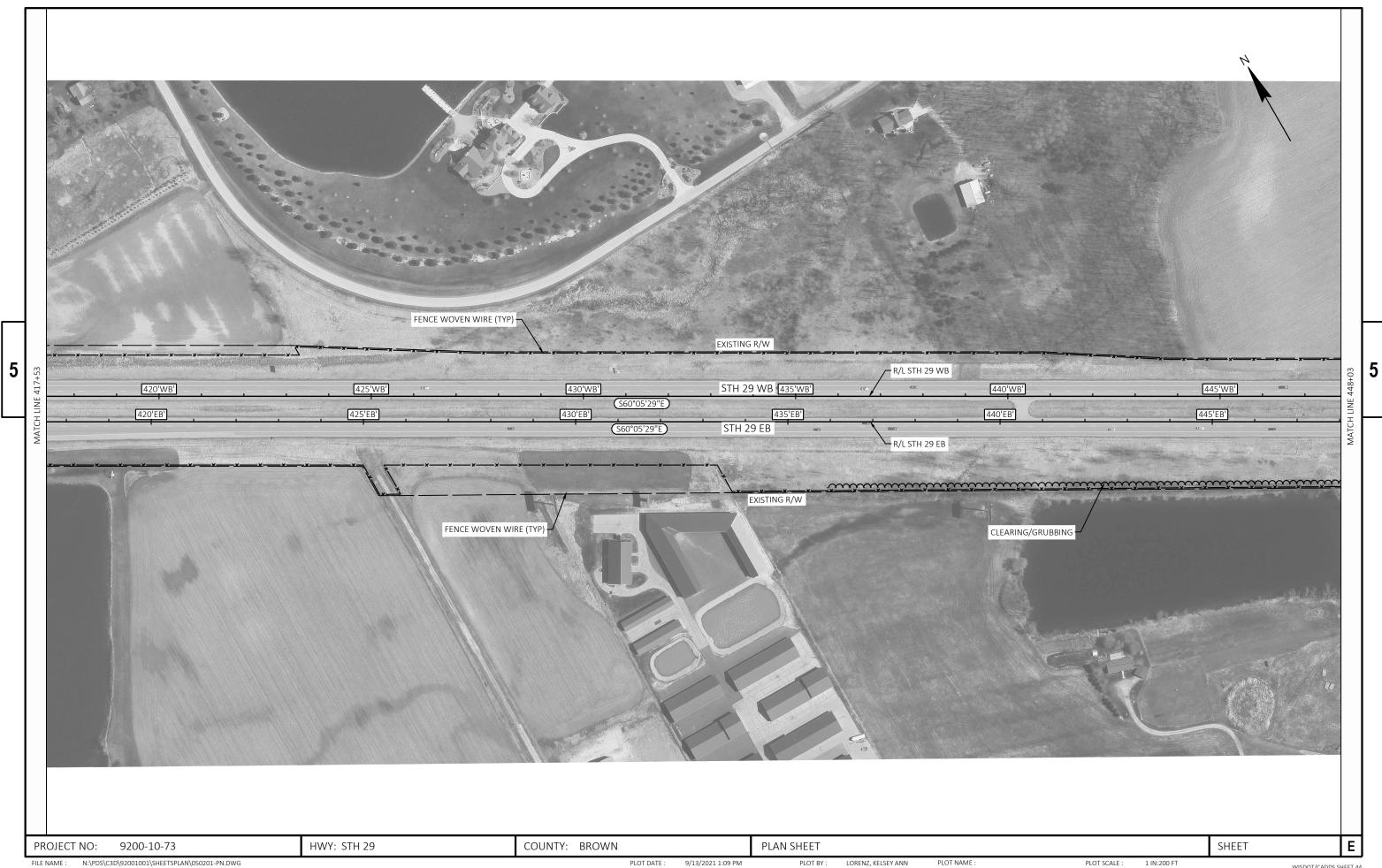


FILE NAME: N:\PDS\C3D\\92001001\\$HEETSPLAN\050201-PN.DWG PLOT BY: LORENZ, KELSEY ANN PLOT NAME: PLOT SCALE: 1 IN:200 FT LAYOUT NAME - 050203-pn

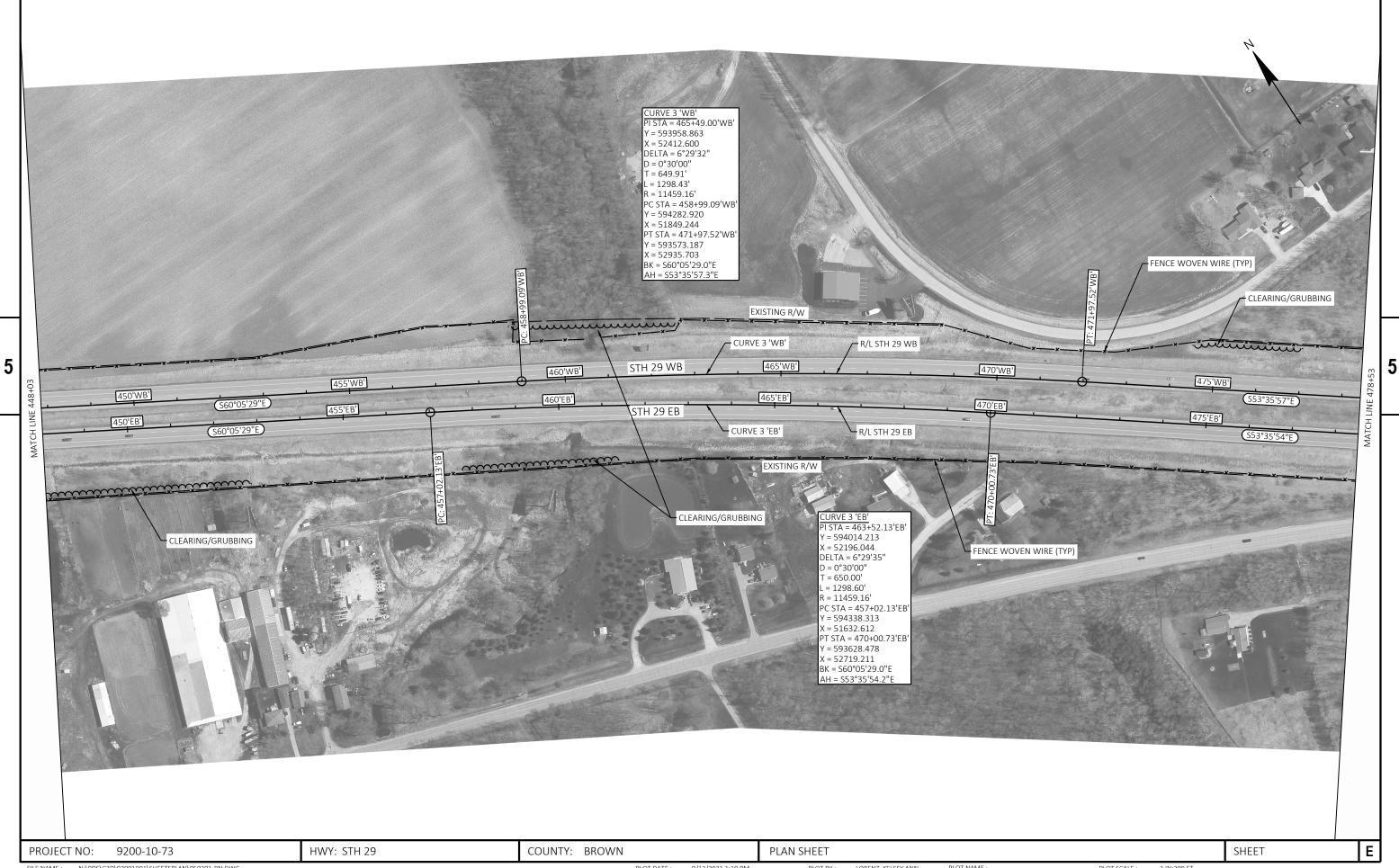
5



N:\PD\$\C3D\92001001\SHEETSPLAN\050201-PN.DWG PLOT DATE : PLOT BY: LORENZ, KELSEY ANN PLOT NAME : PLOT SCALE : 9/13/2021 1:08 PM 1 IN:200 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - 050204-pn

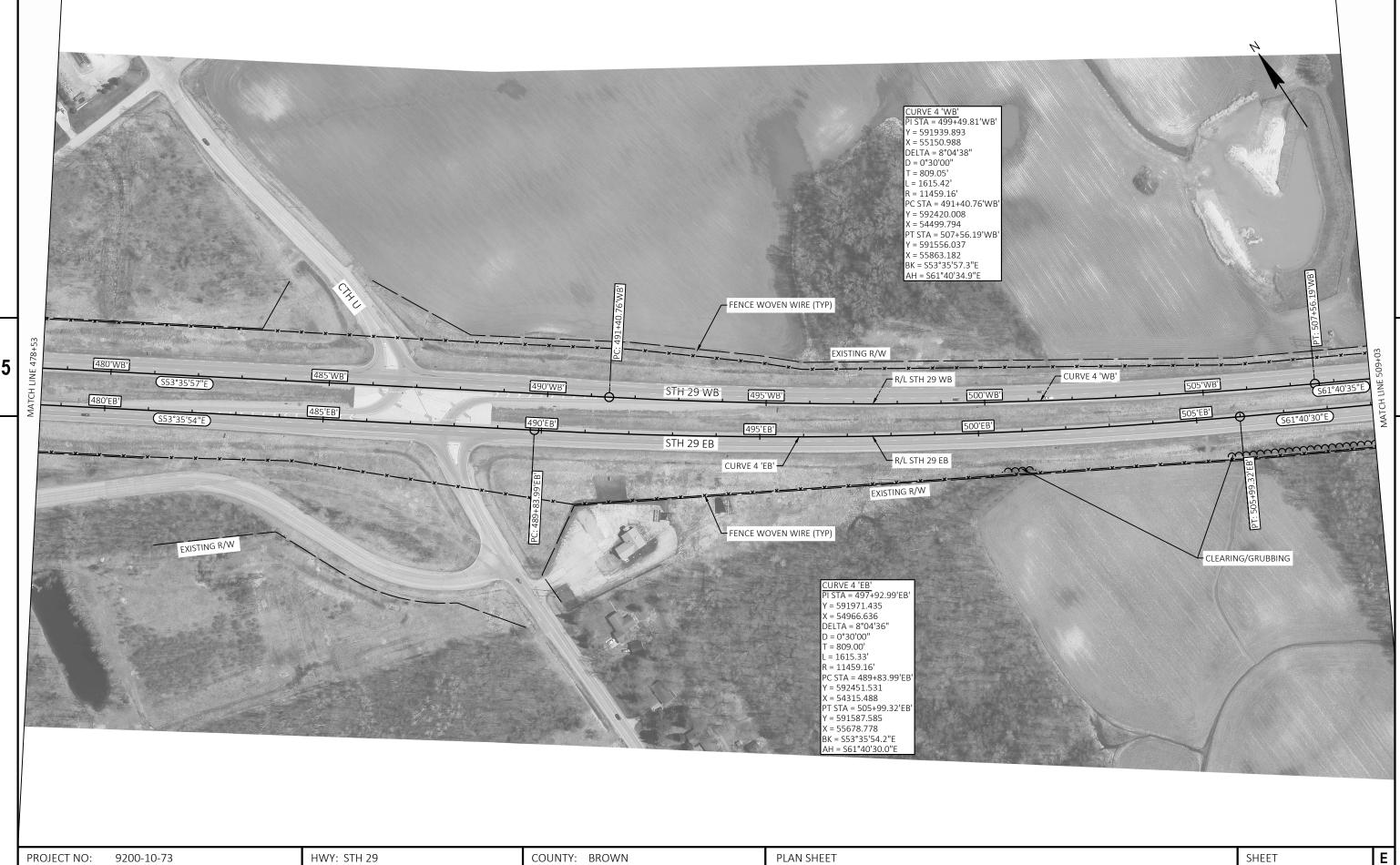


N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG LAYOUT NAME - 050205-pn



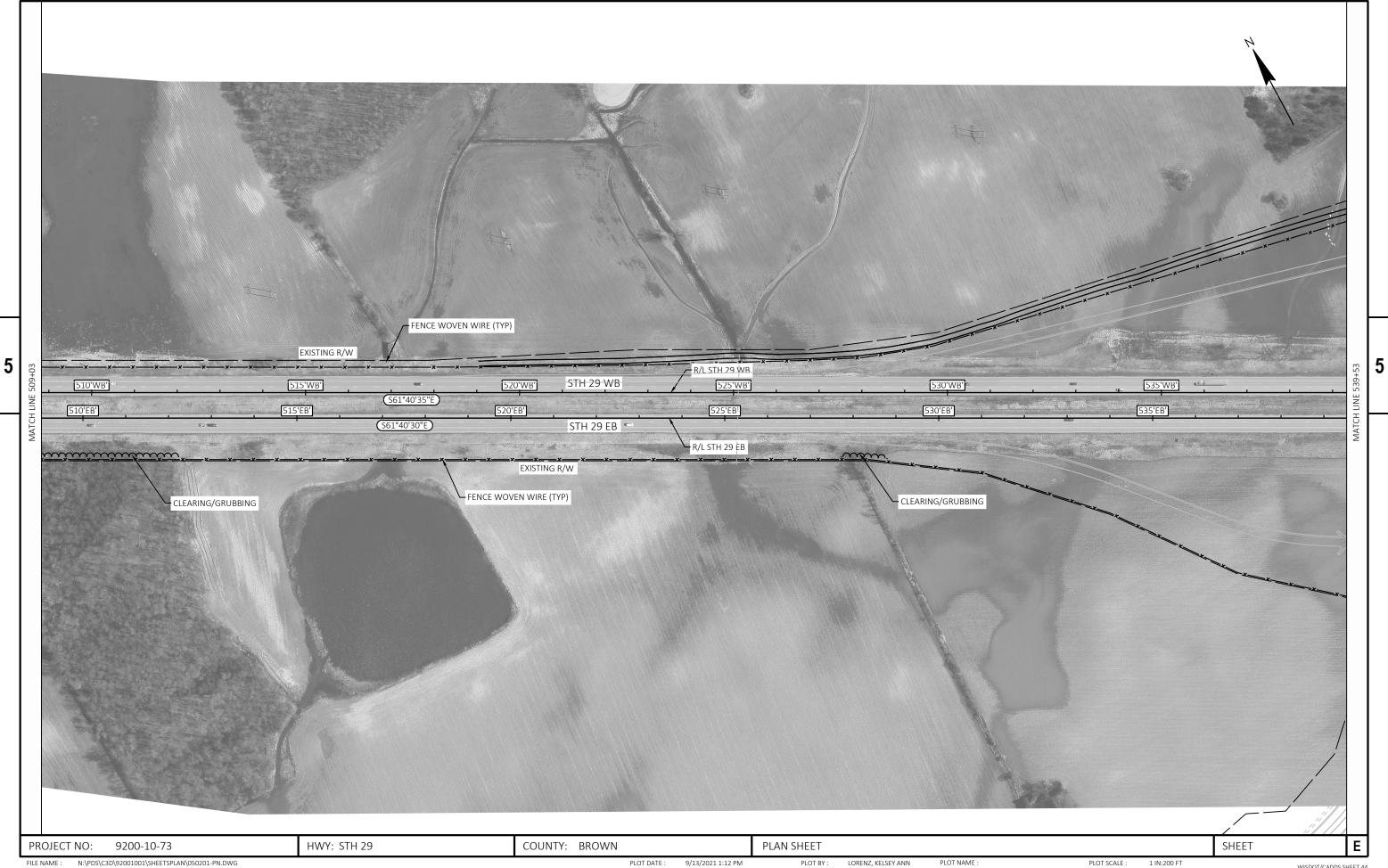
FILE NAME: N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG
PLOT DATE: 9/13/2021 1:10 PM PLOT BY: LORENZ, KELSEY ANN PLOT NAME: PLOT SCALE: 1 IN:200 FT WISDOT/CADDS SHEET 44

LAYOUT NAME - 050206-pn

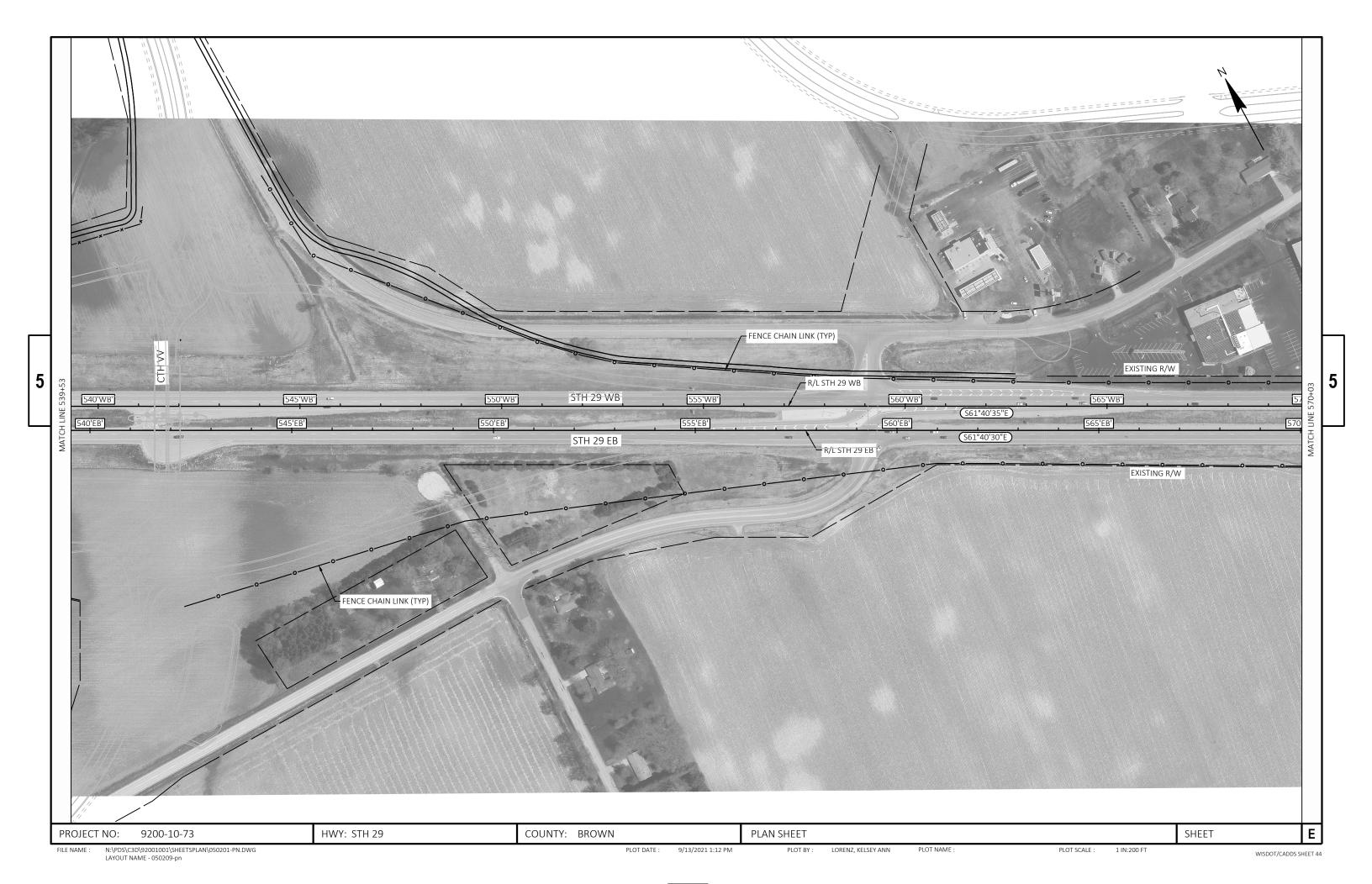


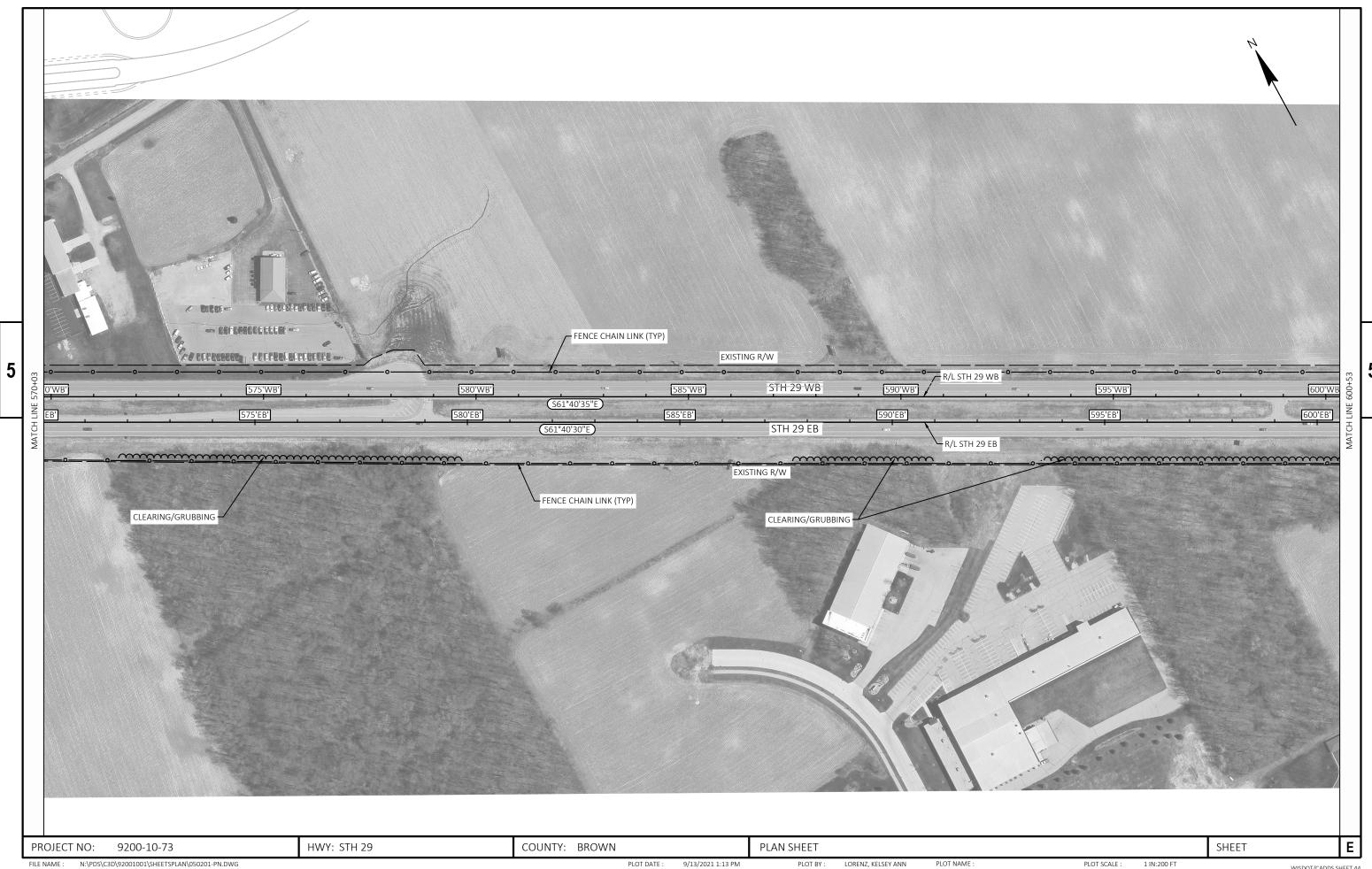
N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG PLOT DATE : PLOT BY: LORENZ, KELSEY ANN PLOT SCALE : FILE NAME : 9/13/2021 1:11 PM PLOT NAME : 1 IN:200 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - 050207-pn

5



FILE NAME : N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG LAYOUT NAME - 050208-pn





N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050210-pn

PLOT DATE : 9/13/2021 1:13 PM

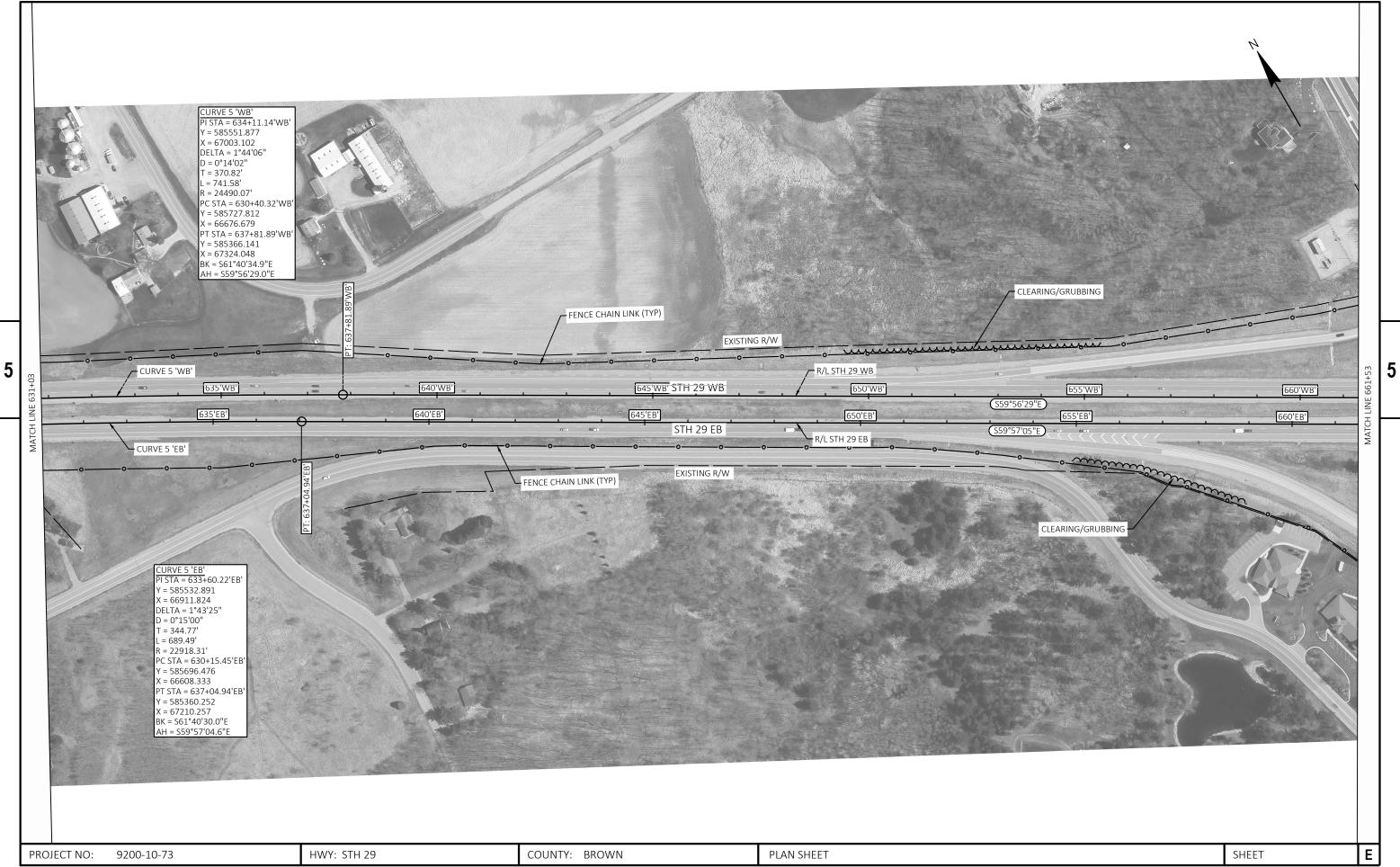




LAYOUT NAME - 050211-pn

LORENZ, KELSEY ANN

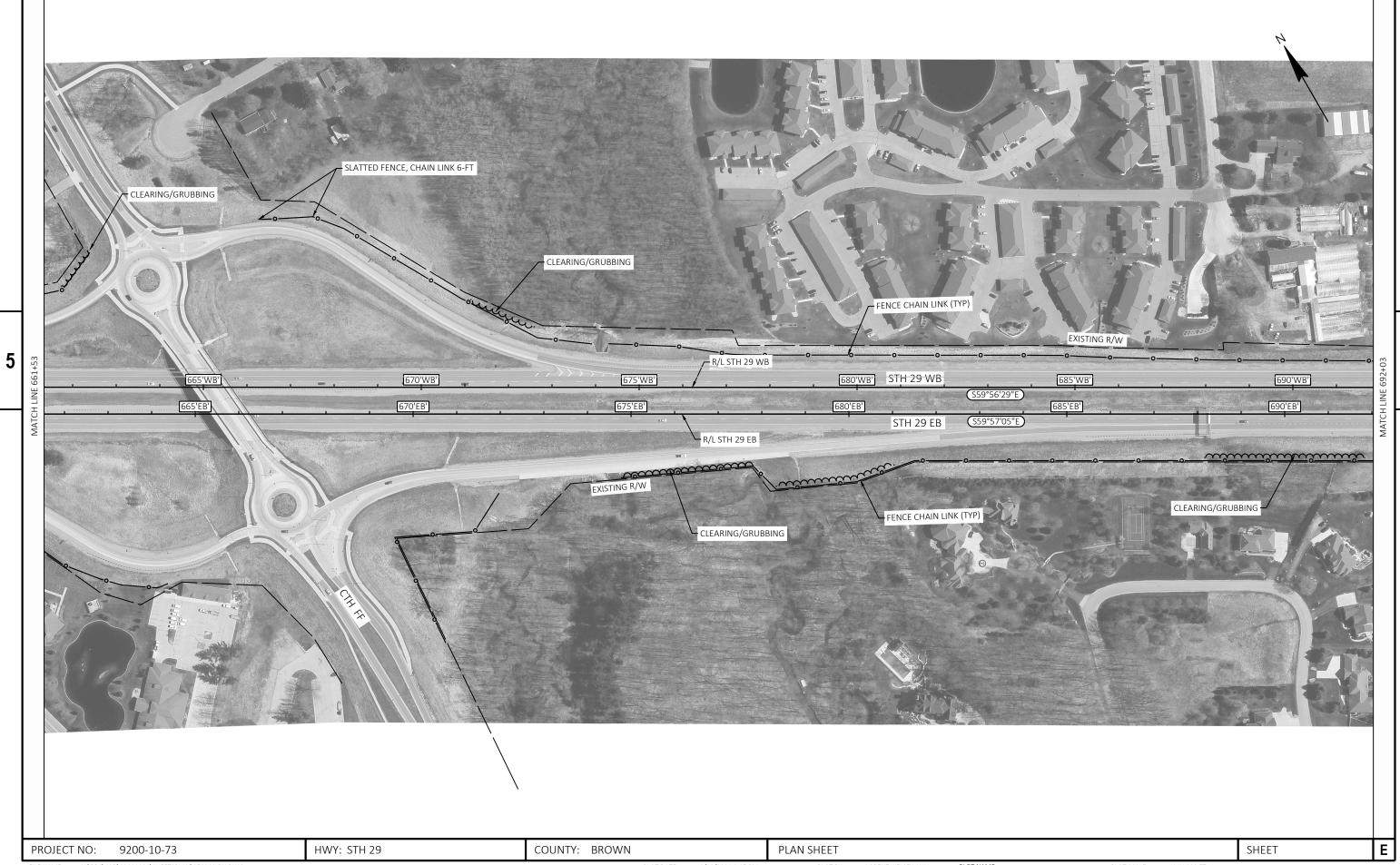
PLOT SCALE :



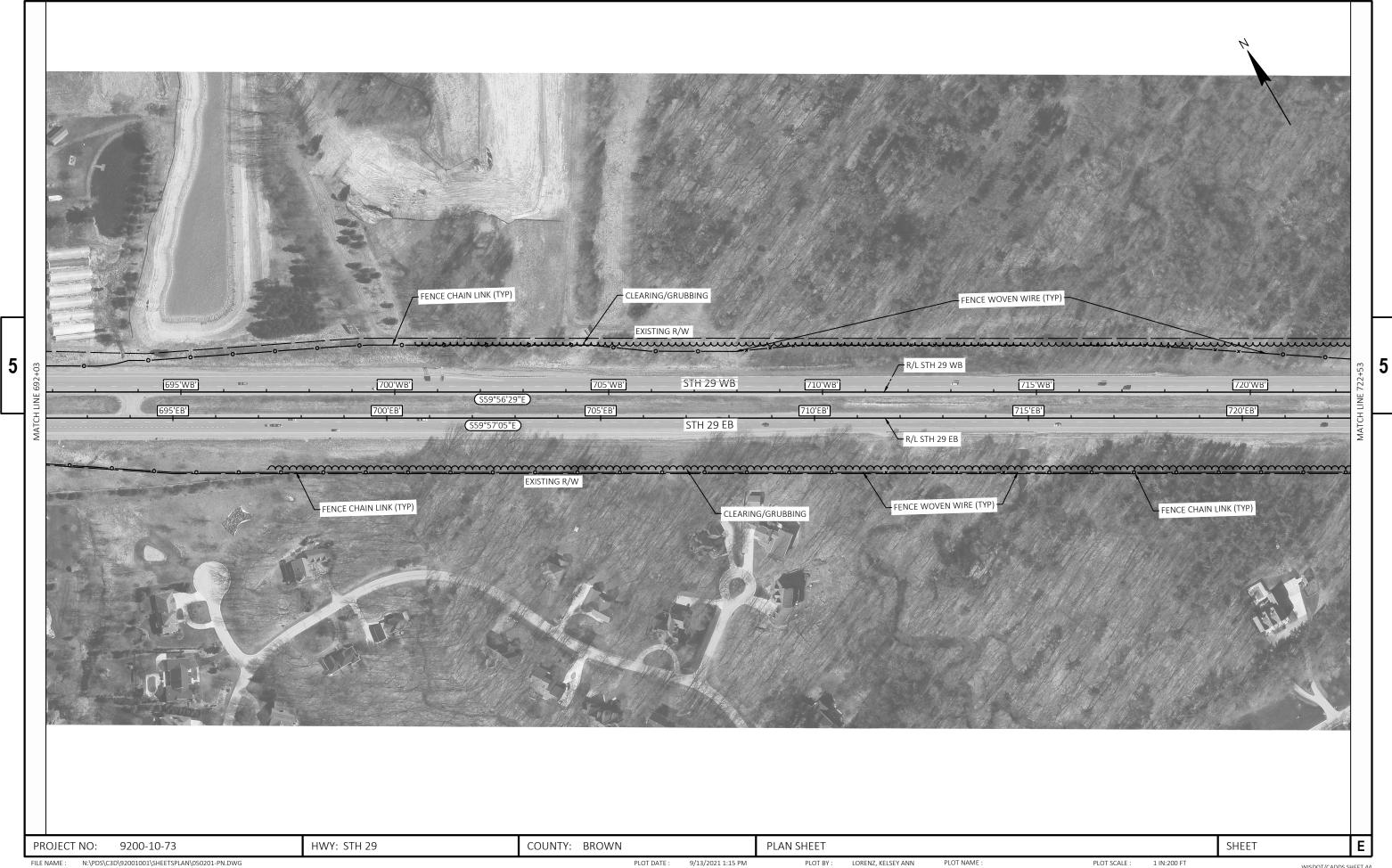
FILE NAME: N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG
PLOT DATE: 9/13/2021 1:14 PM
PLOT BY: LORENZ, KELSEY ANN
PLOT NAME: PLOT SCALE: 1 IN:200 FT
WISDOT/CADDS SHEET 44

WISDOT/CADDS SHEET 44

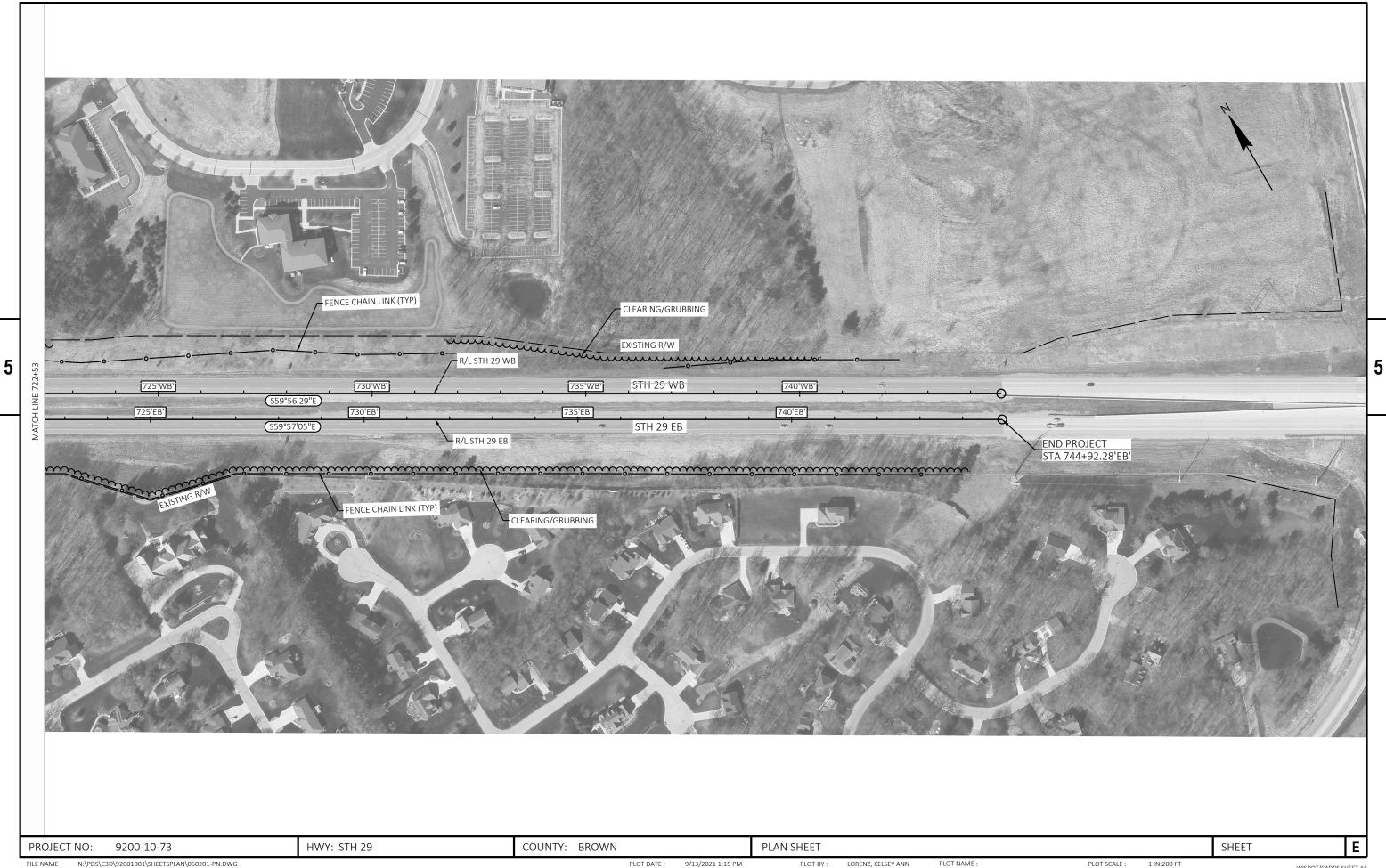




FILE NAME: N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG PLOT BY: LORENZ, KELSEY ANN PLOT BY: LORENZ, KELSEY ANN PLOT NAME: PLOT SCALE: 1 IN:200 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - 050213-pn



LAYOUT NAME - 050214-pn

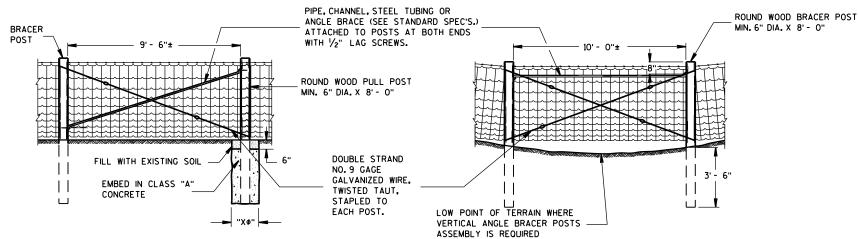


N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG LAYOUT NAME - 050215-pn WISDOT/CADDS SHEET 44

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1.320'. FOR RUNS OF FENCE IN EXCESS OF 1.320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

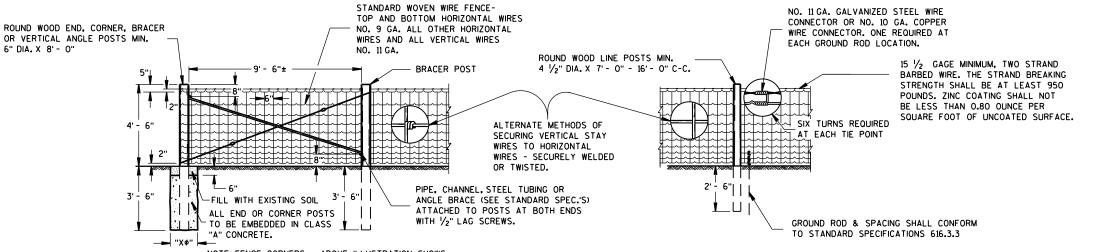
ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE. AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.

6" DIA. X 8' - 0"



PULL OR STRETCHER POSTS ASSEMBLY

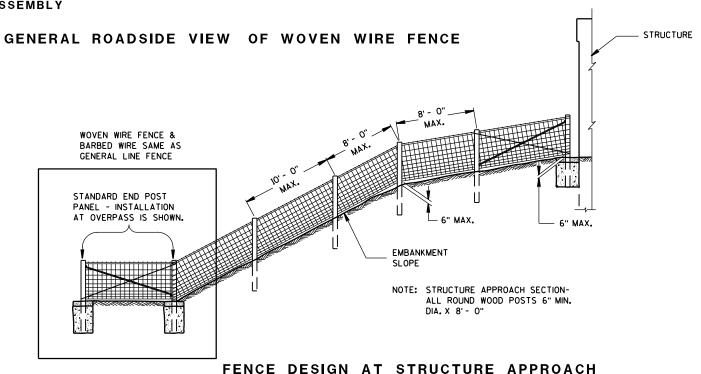
VERTICAL ANGLE BRACER POSTS ASSEMBLY

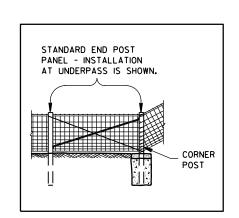


NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

LINE FENCE CONSTRUCTION

END OR CORNER POSTS ASSEMBLY





ALTERNATE FENCE DESIGN AT STRUCTURE

GENERAL NOTES

"XO" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VER-TICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EX-PANSION AND CONTRACTION. STAPLE AR-RANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MAN-UFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

FENCE WOVEN WIRE

6

Ω

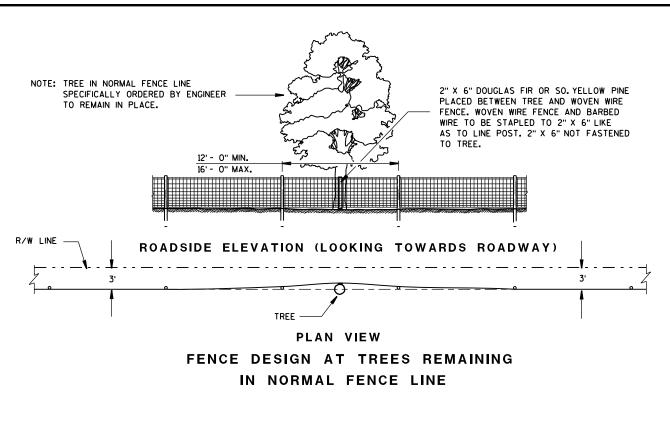
5

Ω

Ω

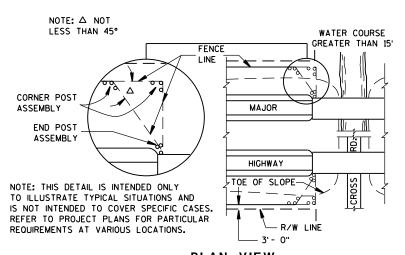
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

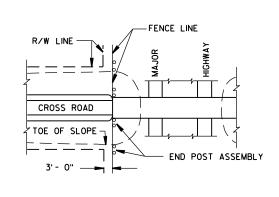


LINE POST EXTRA LONG POST GROUND LINE WHERE NECESSARY

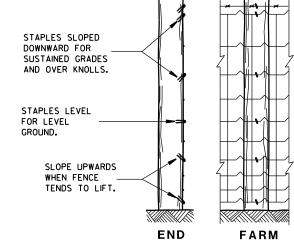
FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



PLAN VIEW MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW MAJOR HIGHWAY UNDERPASS

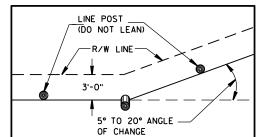


FENCE MOUNTING DETAIL

ELEVATION

SIDE

ELEVATION



LINE POST (DO NOT LEAN) 21° TO 40° ANGLE OF CHANGE

PLAN VIEW SINGLE POST CORNER

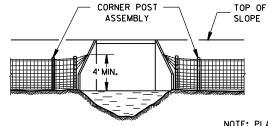
NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.

PLAN VIEW DOUBLE POST CORNER

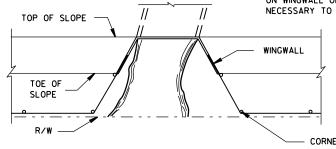
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

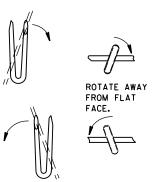
> WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS



LINE POST

FENCE WOVEN WIRE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

4/4/2008 /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT DATE ENGINEER FHWA

Ö 5 \Box 9

Ū

6

FENCE LOCATION AT STRUCTURES

6

1-8b Δ

SDD 15b3-a Chain Link Fence

END CLAMP

TENSION -

GATE POST &

TENSION

FILL WITH EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

12" MIN.

CONCRETE

12" MIN.

END POST

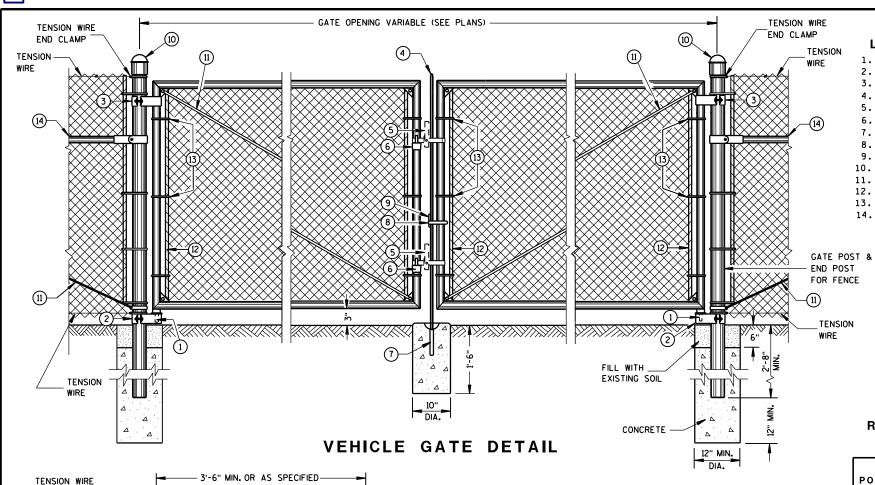
FOR FENCE

6

D

D

 \Box



TENSION WIRE

TENSION

GATE POST &

END POST

FOR FENCE

END CLAMP

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL	LESS THAN OR EQUAL TO 6 FT.	SP3
POSTS **	GREATER THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EOUAL TO 8 FT.	SP3
LINE POSTS	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE	TYPE
BRACE RAIL	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

- LEGEND 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH
- 6. FORK CATCH *
- 7. PLUNGER ROD CATCH 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS
- 12. TENSION BAR
- 13. TENSION BANDS
- 14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

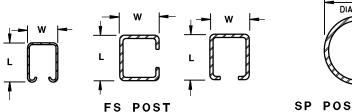
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

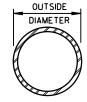
FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.





SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) Inch	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

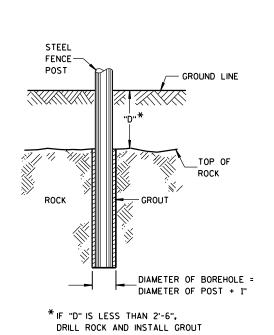
POST TYPE	OUTSIDE Dimension Inch	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED POST SIZE FOR GATES

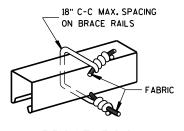
USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EOUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EOUAL TO 23 FT.	SP7
_	•	

FENCE CHAIN LINK

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က Ω Ω Ω

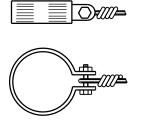




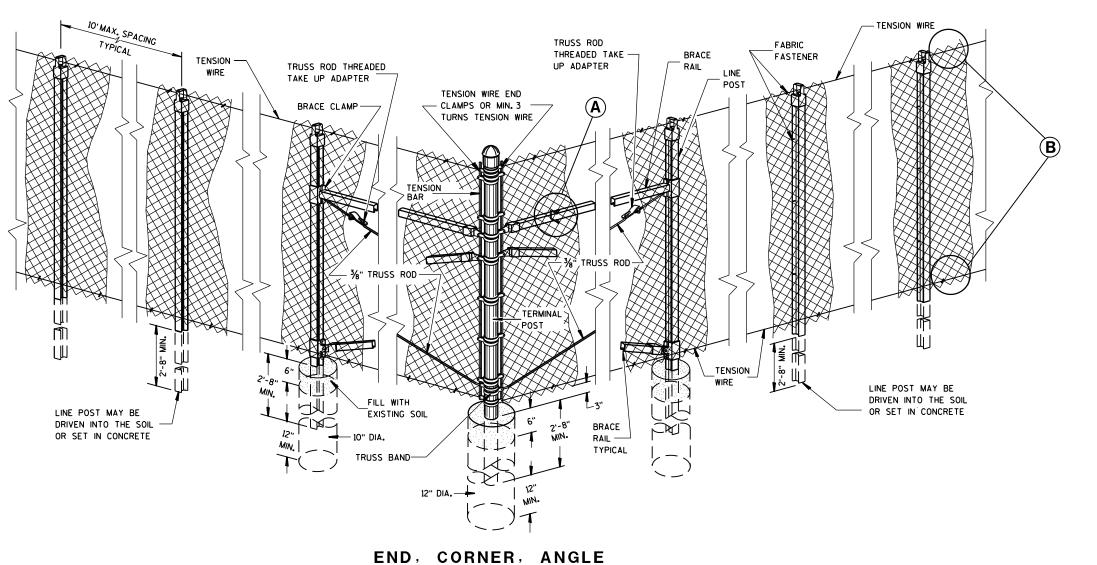


BRACE RAIL
FABRIC FASTENER

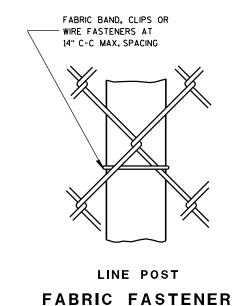
(A)

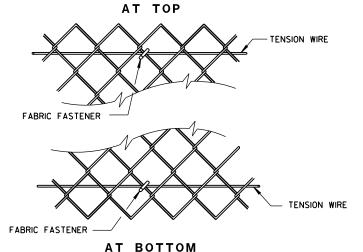


TENSION WIRE END CLAMP



END, CORNER, ANGLE
INTERSECTION & INTERMEDIATE
BRACED POSTS





AT BOTTOM
SELVAGES
B

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FEB. 2015

FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

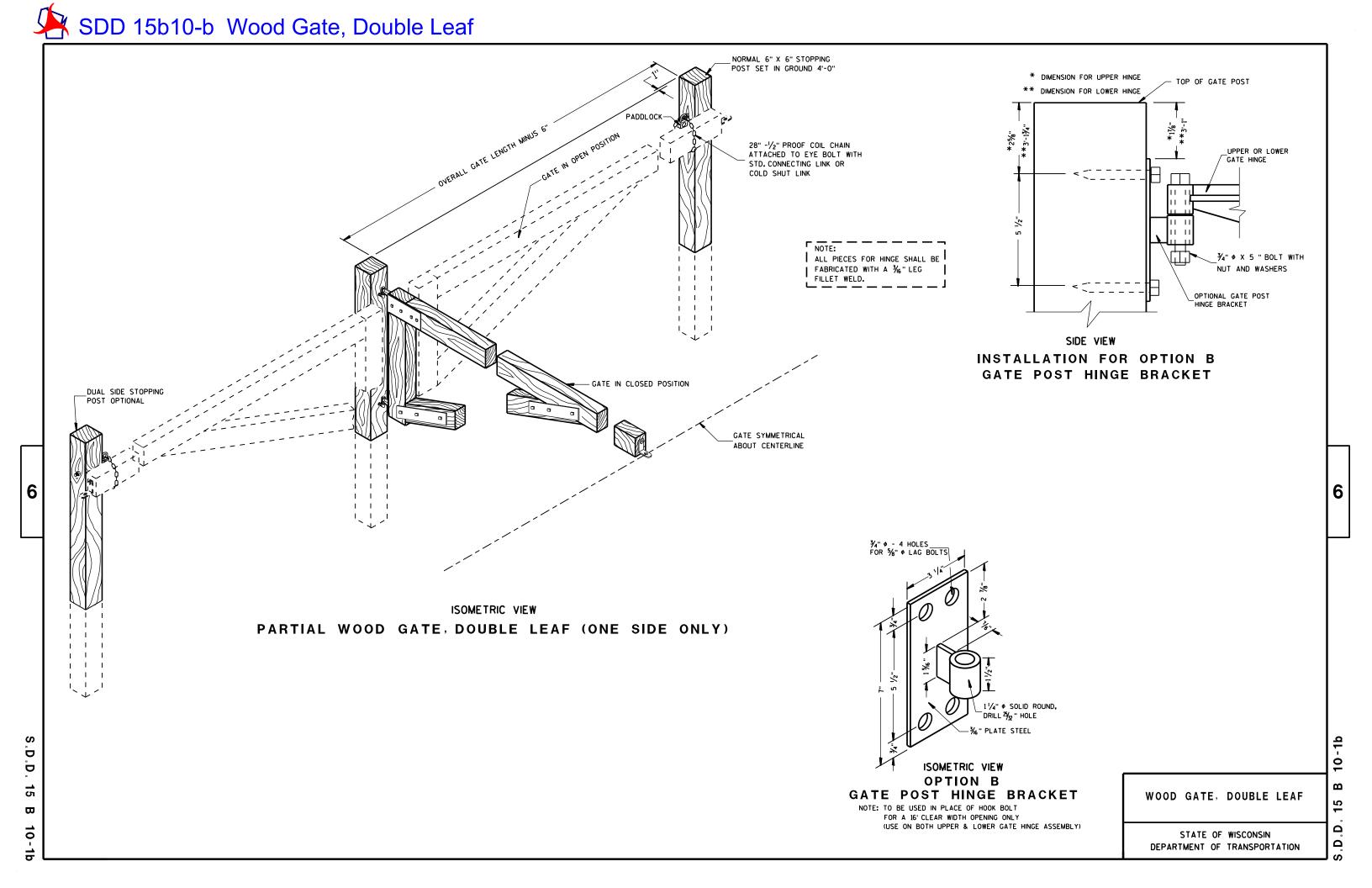
3-15b

Ω

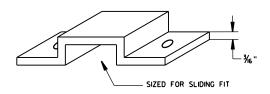
Ω

6

S.D.D. 15 B 3

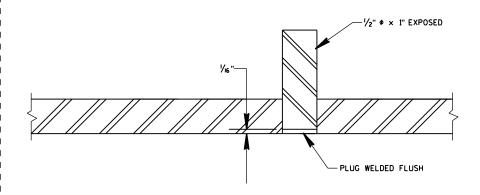


SLIDE BAR CROSS SECTION

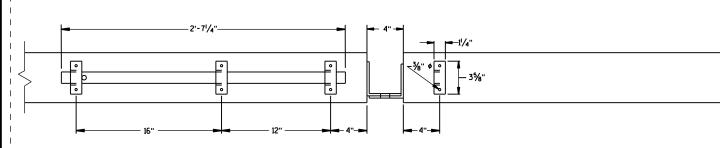


KEYWAY FOR SLIDE BAR

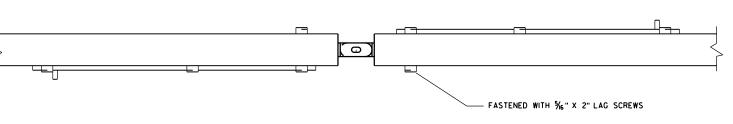
ISOMETRIC VIEW



SECTION FOR SLIDE PIN ASSEMBLY



ELEVATION VIEW



PLAN VIEW

SLIDE BAR ASSEMBLY FOR GATES GREATER THEN 20'-0"

GENERAL NOTES

POSTS SHALL BE SET IN GROUND AT THE DEPTH SHOWN, FILLED AND COMPACTED EVERY 6 INCHES WITH ORIGINAL SUBSOIL.

ALL SAW CUTS AND HOLES DRILLED IN TIMBERS SHALL BE TREATED IN ACCORDANCE WITH SECTION 507.2.2.6 AND WOOD PRESERVATIVE SHALL BE SECTION 507.2.3.4 OF THE STANDARD SPECIFICATIONS.

GATE LOCK CAN BE MASTER KEYED AND SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS: SHACKLE DIA. OF $\frac{1}{2}$ ", VERTICAL CLEARANCE OF $\frac{1}{2}$ ", HORIZONTAL CLEARANCE OF $\frac{1}{2}$ ".

ALL METAL SHALL BE PAINTED WITH A ZINC RICH PRIMER AND ONE COAT OF EPOXY FINISH PAINT. A SECOND FINISH COAT SHALL BE FIELD APPLIED AFTER INSTALLATION.

STOPPING POSTS SHALL BE SET AT EACH SIDE AND EQUIPPED WITH LOCKING POST LOCK BAR FOR HOLDING IN POSITION.

ALL TIMBER BRACES AND HINGE ASSEMBLY SHALL BE SHOP FABRICATED.

DESIGN NOTE:

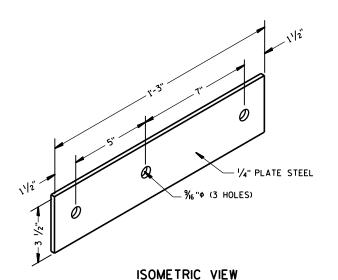
GATE SIZE SHALL BE SPECIFIED AS

(TABLE OF DIMENSIONS)

CLEAR WIDTH	DISTANCE BETWEEN POSTS	LENGTH OF UPPER GATE BEAM	OVERALL GATE LENGTH
12'-0"	12'-7''	5'-2 1/2"	5'-8"
14'-0''	14'-7''	6'-2 1/2"	6'-8"
16'-0''	16'-7"	7'-2 1/2"	7'-8"
18'-0"	18'-7"	8'-2 ¹ / ₂ "	8'-8"
* * 20'-0"	20'-7"	9'-2 1/2"	9'-8"
** 24'-0"	24'-7"	11'-2 1/2"	11'-8''
* * 28'-0"	28'-7"	13'-2 1/2"	13'-8"
* * 30'-0"	30'-7"	14'-2 1/2"	14'-8''
** 32'-0"	32'-7"	15'-2 1/2"	15'-8"

**FOR A 20'AND UP CLEAR WIDTH OPENING - HINGE BRACKET (OPTION B) IS TO BE USED INSTEAD OF THE BOLT HOOK, AND HINGE POST SHALL BE AT A MIN. DEPTH OF 6'-O" AND SLIDE BAR ASSEMBLY SHALL BE USED.

THE CLEAR WIDTH OF OPENING.



UPPER AND LOWER SPLICE PLATES

WOOD GATE, DOUBLE LEAF

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

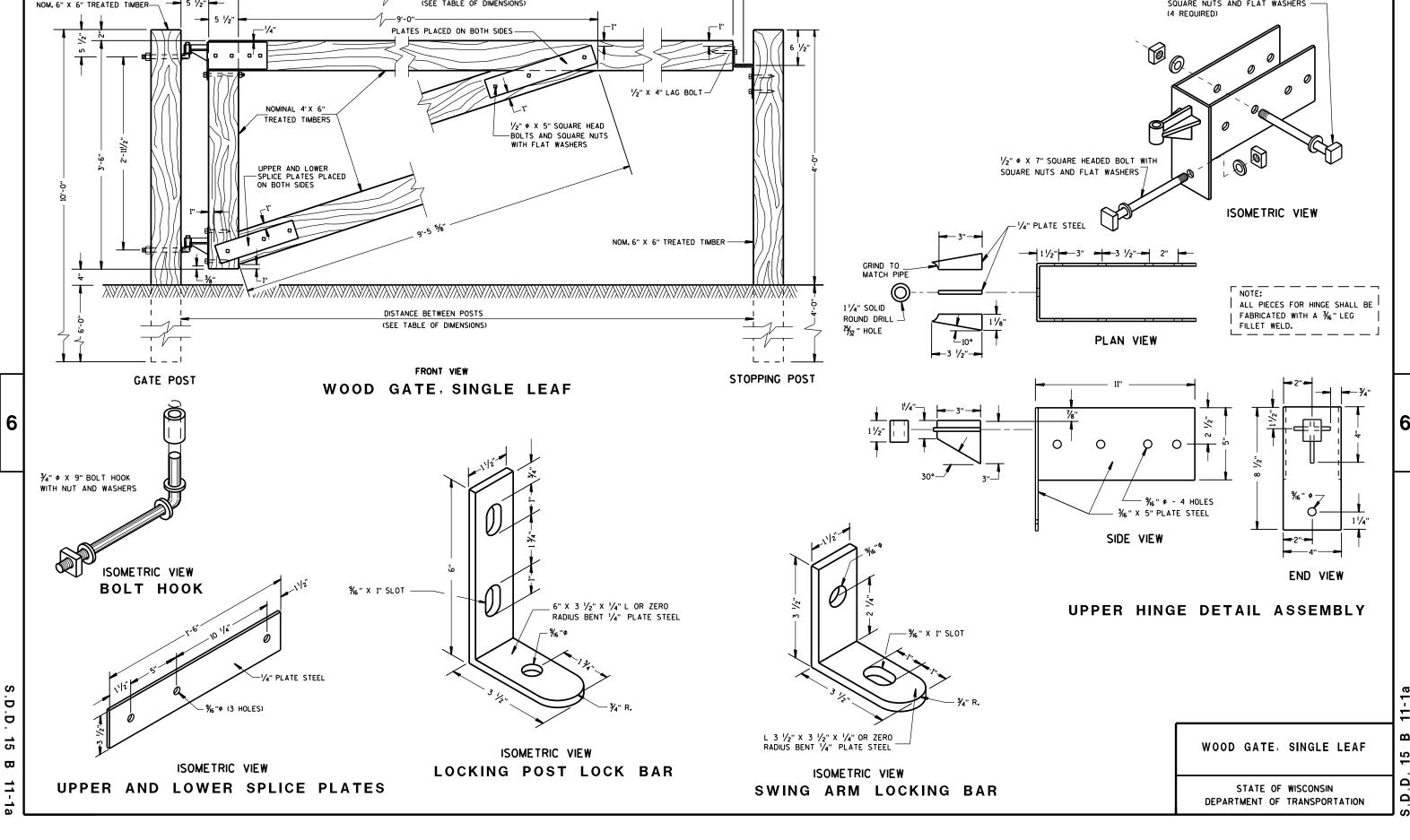
DATE // CHIEF METHODS DEVELOPMENT ENGINEER

S.D.D. 15

 \Box

6

.D.D. 15 B



(TABLE OF DIMENSIONS)

CLEAR WIDTH	DISTANCE BETWEEN POSTS	LENGTH OF UPPER GATE BEAM	OVERALL GATE LENGTH
* * 16'-0"	16'-7"	15'-41/4"	15'-9¾"
* * 14'-0"	14'-7"	13'-4 ¹ / ₄ "	13'-9¾"
12'-0"	12'-7"	11'-4'/4"	11'-9¾''
10'-0"	10'-7"	9'-4'/4"	9'-9¾"

** FOR A 14'AND 16'CLEAR WIDTH OPENING - HINGE BRACKET (OPTION B) IS TO BE USED INSTEAD OF THE BOLT HOOK.

DESIGN NOTE:

GATE SIZE SHALL BE SPECIFIED AS THE CLEAR WIDTH OF OPENING.

GENERAL NOTES

POSTS SHALL BE SET IN GROUND AT THE DEPTH SHOWN, FILLED AND COMPACTED EVERY 6 INCHES WITH ORIGINAL SUBSOIL.

ALL SAW CUTS AND HOLES DRILLED IN TIMBERS SHALL BE TREATED IN ACCORDANCE WITH SECTION 507.2.2.6 AND WOOD PRESERVATIVE SHALL BE SECTION 507.2.3.4 OF THE STANDARD SPECIFICATIONS.

GATE LOCK CAN BE MASTER KEYED AND SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS: SHACKLE DIA. OF $\frac{3}{4}$ ", VERTICAL CLEARANCE OF $1\frac{1}{2}$ ", HORIZONTAL CLEARANCE OF $1\frac{1}{2}$ ".

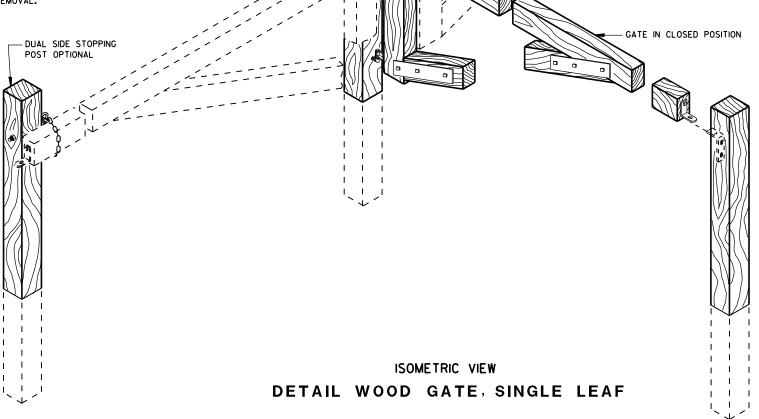
ALL METAL SHALL BE PAINTED WITH A ZINC RICH PRIMER AND ONE COAT OF EPOXY FINISH PAINT. A SECOND FINISH COAT SHALL BE FIELD APPLIED AFTER INSTALLATION.

STOPPING POSTS SHALL BE SET AT EACH SIDE AND EQUIPPED WITH LOCKING POST LOCK BAR FOR HOLDING IN POSITION.

ALL TIMBER BRACES AND HINGE ASSEMBLY SHALL BE SHOP FABRICATED.

ALL BOLTS, WASHERS AND NUTS SHALL BE UNL ASTM A325.

HINGE BOLT THREADS SHALL BE PEINED OR SPOT WELDED IN PLACE TO PREVENT REMOVAL.

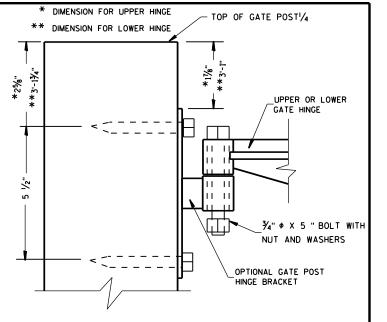


28" -1/2" PROOF COIL CHAIN ATTACHED TO EYE BOLT WITH STD. CONNECTING LINK OR COLD SHUT LINK

NORMAL 6" X 6" STOPPING

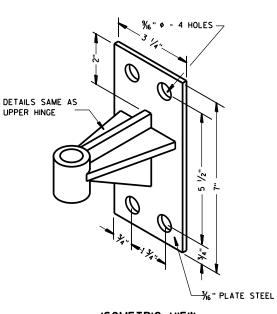
POST SET IN GROUND 4'-0"

NOTE:
ALL PIECES FOR HINGE SHALL BE
FABRICATED WITH A %" LEG
FILLET WELD.

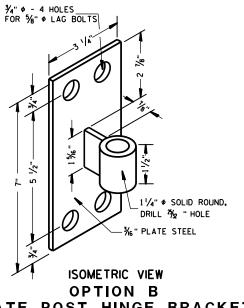


SIDE VIEW

INSTALLATION FOR OPTION B GATE POST HINGE BRACKET



ISOMETRIC VIEW
LOWER GATE HINGE



GATE POST HINGE BRACKET

NOTE: TO BE USED IN PLACE OF HOOK BOLT

FOR A 16' CLEAR WIDTH OPENING ONLY

(USE ON BOTH UPPER & LOWER GATE HINGE ASSEMBLY)

WOOD GATE, SINGLE LEAF

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE CHIEF METHODS DEVELOPMENT ENGINEER

S.D.D. 15 B 11

6

S.D.D. 15 B 11-1

EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a "PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

- a. With the plan open in Acrobat, select Document > Insert Pages.
- b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
- c. In the Insert dialog box, choose After for Location and Last page for Page.
- d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

- a. Go to the last sheet of the plan.
- b. Click the Place Preliminary Sheet Numbers button once.(The preliminary sheet number appears in the bottom right corner of the sheets. The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

TO REMOVE PRELIMINARY SHEET NUMBERS