

GOVERNING SPECIFICATIONS

THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION  
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX

SHEET NO.	DESCRIPTION
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120-126	MISCELLANEOUS DETAILS
127-133	STANDARD PLANS

THIS PLAN CONTAINS 133 SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: CANDACE C. AMBERG LICENSE # 40646

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

PROJECT DESIGNERS \_\_\_\_\_

RECOMMENDED FOR APPROVAL \_\_\_\_\_ 20  
DISTRICT TRANSPORTATION ENGINEER

RECOMMENDED FOR APPROVAL \_\_\_\_\_ 20  
PRINCIPAL LANDSCAPE ARCHITECT

RECOMMENDED FOR APPROVAL \_\_\_\_\_ 20  
STATE PRE-LETTING ENGINEER

OFFICE OF LAND MANAGEMENT APPROVAL \_\_\_\_\_ 20  
DIRECTOR, LAND MANAGEMENT

APPROVED \_\_\_\_\_ 20  
STATE DESIGN ENGINEER

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: \_\_\_\_\_ LICENSE # \_\_\_\_\_

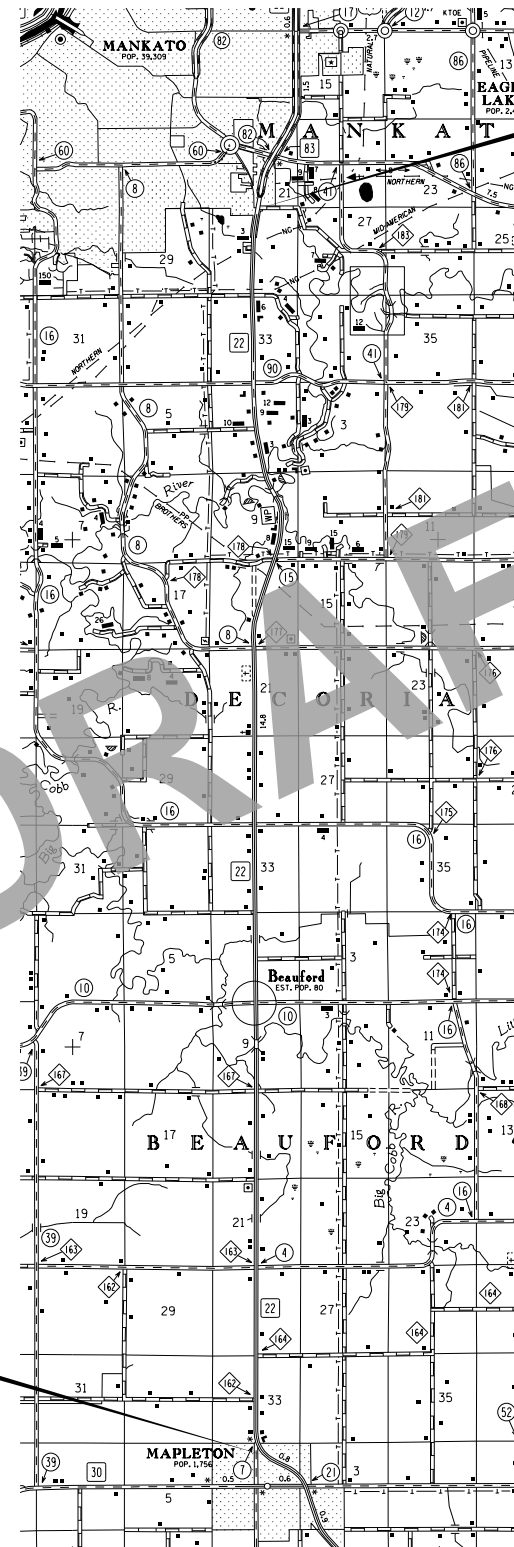
DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

# MINNESOTA DEPARTMENT OF TRANSPORTATION

## CONSTRUCTION PLAN FOR LANDSCAPING

LOCATED ON TH 22 FROM NORTH EDGE OF MAPLETON TO JUNCTION OF 206TH STREET

STATE PROJ. NO. 0704-110  
GROSS LENGTH 73920 FEET 14 MILES  
BRIDGES-LENGTH \_\_\_\_\_ FEET \_\_\_\_\_ MILES  
EXCEPTIONS-LENGTH \_\_\_\_\_ FEET \_\_\_\_\_ MILES  
NET LENGTH 73920 FEET 14 MILES  
REF. POINT 35+00.395 TO REF. POINT 49+00.395



END S.P. 0704-101 (T.H. 22)

BEGIN S.P. 0704-101 (T.H. 22)

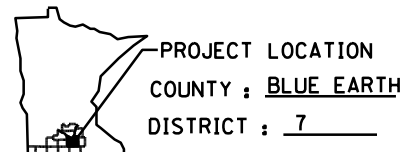
### DESIGN DESIGNATION

ADT (Current Year) 2017 = 5400 Design Speed 60 MPH

FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL

PROJ. NO. \_\_\_\_\_ CHARGE IDENTIFIER \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



### PLAN SYMBOLS

STATE LINE	----
COUNTY LINE	-----
TOWNSHIP OR RANGE LINE	-----
SECTION LINE	-----
QUARTER LINE	-----
SIXTEENTH LINE	-----
RIGHT-OF-WAY LINE	-----
SLOPE EASEMENT	SE
PRESENT RIGHT-OF-WAY	-----
CONTROL OF ACCESS LINE	-----
PROPERTY LINES (EXCEPT LAND LINES)	-----
VACATED PLATTED PROPERTY	-----
CORPORATE OR CITY LIMITS	-----
TRUNK HIGHWAY CENTER LINE	-----
RETAINING WALL	-----
RAILROAD	-----
RAILROAD RIGHT-OF-WAY	-----
RIVER OR CREEK	-----
DRY RUN	-----
DRAINAGE DITCH	-----
DRAIN TILE	-----
CULVERT	-----
DROP INLET	-----
GUARD RAIL	-----
BARBED WIRE FENCE	-----
WOVEN WIRE FENCE	-----
CHAIN LINK FENCE	-----
RAILROAD SNOW FENCE	-----
STONE WALL OR FENCE	-----
HEDGE	-----
RAILROAD CROSSING SIGN	-----
RAILROAD CROSSING BELL	-----
ELECTRIC WARNING SIGN	-----
CROSSING GATE	-----
MEANDER CORNER	-----
SPRINGS	-----
MARSH	-----
TIMBER	-----
ORCHARD	-----
BRUSH	-----
NURSERY	-----
CATCH BASIN	-----
FIRE HYDRANT	-----
CATTLE GUARD	-----
OVERPASS (HIGHWAY OVER)	-----
UNDERPASS (HIGHWAY UNDER)	-----
BRIDGE	-----
BUILDING (ONE STORY FRAME)	-----
F - FRAME C - CONCRETE	-----
S - STONE T - TILE	-----
B - BRICK ST - STUCCO	-----
IRON ROD OR PIPE	-----
MONUMENT (STONE, CONCRETE, OR METAL)	-----
WOODEN HUB	-----
GRAVEL PIT	-----
SAND PIT	-----
BORROW PIT	-----
ROCK QUARRY	-----

### UTILITY SYMBOLS

POWER POLE LINE	-----
TELEPHONE OR TELEGRAPH POLE LINE	-----
JOINT TELEPHONE AND POWER ON POWER POLE	-----
ANCHOR ON TELEPHONE POLES	-----
STREET LIGHT	-----
PEDESTAL (TELEPHONE CABLE TERMINAL)	-----
GAS MAIN	-----
WATER MAIN	-----
CONDUIT	-----
TELEPHONE CABLE IN CONDUIT	-----
ELECTRIC CABLE IN CONDUIT	-----
TELEPHONE MANHOLE	-----
ELECTRIC MANHOLE	-----
BURIED TELEPHONE CABLE	-----
BURIED ELECTRIC CABLE	-----
AERIAL TELEPHONE CABLE	-----
SEWER (SANITARY OR STORM)	-----
SEWER MANHOLE	-----

### SCALES

PLAN	<u>50'</u>
INDEX MAP	<u>10,000'</u>
GENERAL LAYOUT	<u>500'</u>

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER

DATE: 7/28/2017 TIME: 9:29:56 AM FILENAME: K:\03265-010\Cad\Plan\cd704100\_1.sxdgn

DATE: 7/28/2017 TIME: 9:29:58 AM  
 FILENAME: K:\03265-010\CadPlan\cd704100\_est01.dgn

ESTIMATED QUANTITIES				
Item No.	Description	Notes	Unit	Estimated Total Quantity
<b>BASE BID</b>				
2021.501	MOBILIZATION		LUMP	1
2101.501	CLEARING		ACRE	
2101.502	CLEARING		TREE	
2101.506	GRUBBING		ACRE	
2101.507	GRUBBING		TREE	
2104.503	REMOVE CONCRETE PAVEMENT		SO FT	
2104.503	REMOVE BITUMINOUS PAVEMENT		SO FT	
2105.604	GEOTEXTILE FABRIC SPECIAL	( 1 )	SO YD	
2105.607	SPECIAL TOPSOIL BORROW		CU YD	40
2112.604	SUBGRADE PREPARATION		SO YD	
2123.610	STREET SWEEPER WITH PICKUP BROOM		HOUR	16
2301.504	CONCRETE PAVEMENT 4"		SO YD	
2301.504	CONCRETE PAVEMENT 6"		SO YD	
2357.502	TACK COAT		GAL	
2360.501	TYPE SP 12.5 WEARING COURSE MIXTURE (2.B)		TON	
2360.502	TYPE SP 12.5 NON WEARING COURSE MIXTURE (2.B)		TON	
2451.609	GRANULAR BACKFILL		TON	
2502.541	4" PERF TP PIPE DRAIN		LIN FT	
2511.602	KASOTA STONE BOULDERS		EACH	
2531.602	PRECAST CONCRETE CURB DESIGN SPECIAL	( 2 )	EACH	
2540.602	FLAGPOLE		EACH	1
2540.602	STONE MONUMENT		EACH	1
2540.603	LANDSCAPE EDGER	( 3 )	LIN FT	
2545.501	LIGHTING SYSTEM		LUMP	1
2563.601	TRAFFIC CONTROL		LUMP	1
2564.537	HANDICAPPED PARKING SIGN		EACH	1
2571.501	CONIFEROUS TREE 6' HT B&B		TREE	
2571.501	CONIFEROUS TREE 7' HT B&B		TREE	
2571.501	CONIFEROUS TREE 8' HT B&B		TREE	
2571.502	DECIDUOUS TREE NO. 10 CONT		TREE	
2571.502	DECIDUOUS TREE 1.5' CAL BAR		TREE	
2571.502	DECIDUOUS TREE 1.75' CAL BAR		TREE	
2571.502	DECIDUOUS TREE 2' CAL BAR		TREE	
2571.502	DECIDUOUS TREE 4' CAL BAR		TREE	
2571.502	CONIFEROUS SHRUB NO. 7 CONT		SHRUB	
2571.505	DECIDUOUS SHRUB NO. 5 CONT		SHRUB	
2571.507	PERENNIAL NO. 1 CONT		PLANT	
2571.507	LIVE HERBACEOUS PLUGS		EACH	
2574.625	BOULEVARD TOPSOIL BORROW	( 4 )	CU YD	
2575.502/608	SEED TYPE 1 SPECIAL WITH HYDROMALCH		POUND	
2575.501	SEEDING- HERBICIDE KILL OFF OF EXISTING VEGETATION & TILLING		ACRE	
2575.502/608	SEED TYPE 2 SPECIAL WITH HYDROMALCH		POUND	
2575.501	SEEDING- HERBICIDE KILL OFF OF EXISTING VEGETATION & TILLING		ACRE	
2575.502/608	SEED TYPE 3 TURF		POUND	
2575.513	MULCH MATERIAL TYPE 6		CU YD	
2575.609	LANDSCAPE ROCK		TON	
2582.502	4" SOLID LINE PAINT		LIN FT	
	KRAFT PAPER		SO YD	

NOTES:

1. LANDSCAPING FABRIC
2. WHEEL STOP IN PARKING LOT
3. METAL LANDSCAPE EDGING
4. TYPE F

DRAFT

DATE: 7/28/2017 TIME: 9:30:04 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem1.dgn



DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



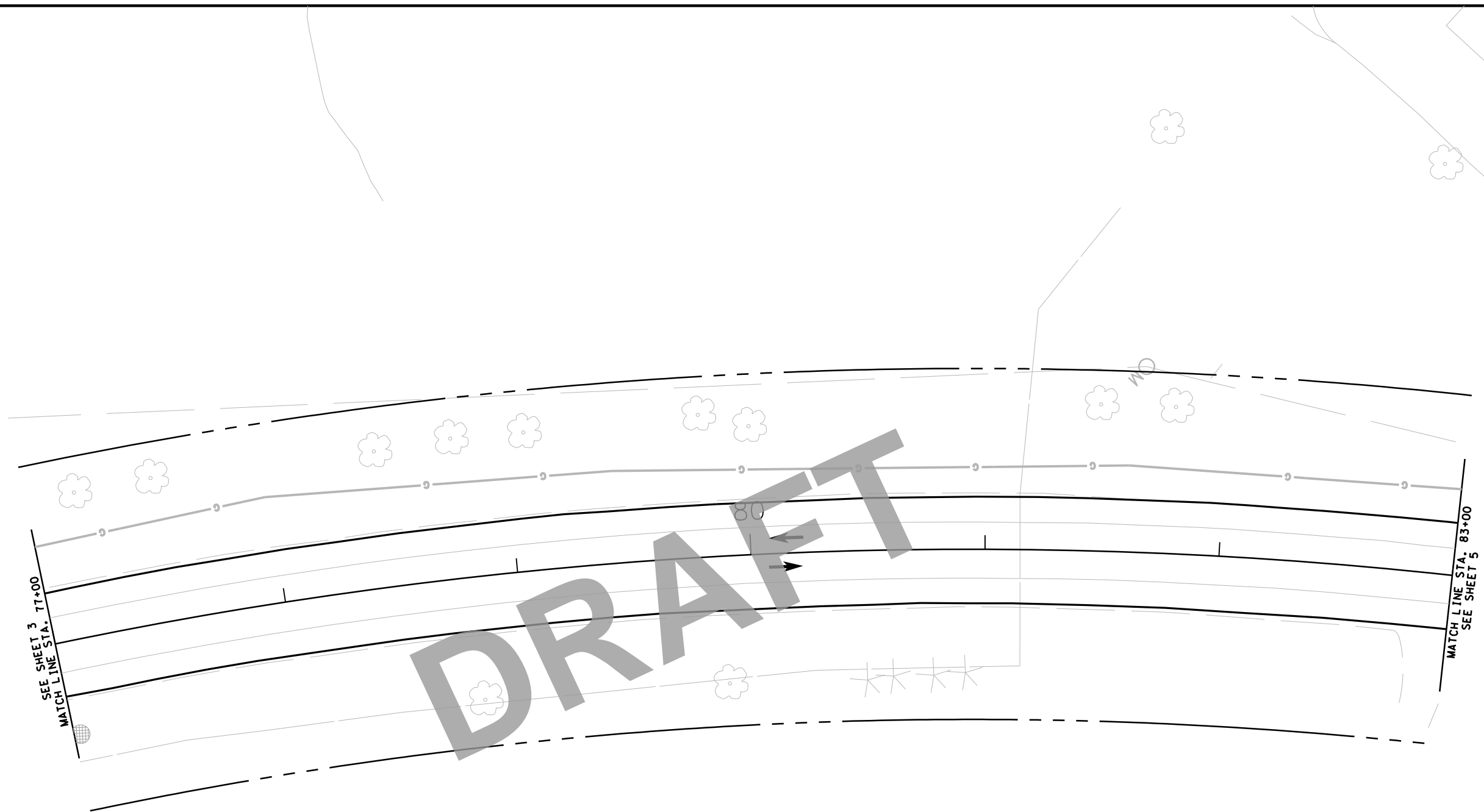
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



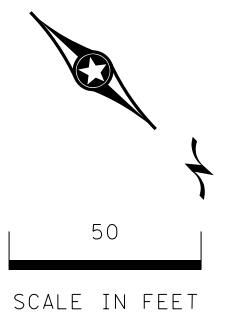
REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 3 of 133 Sheets

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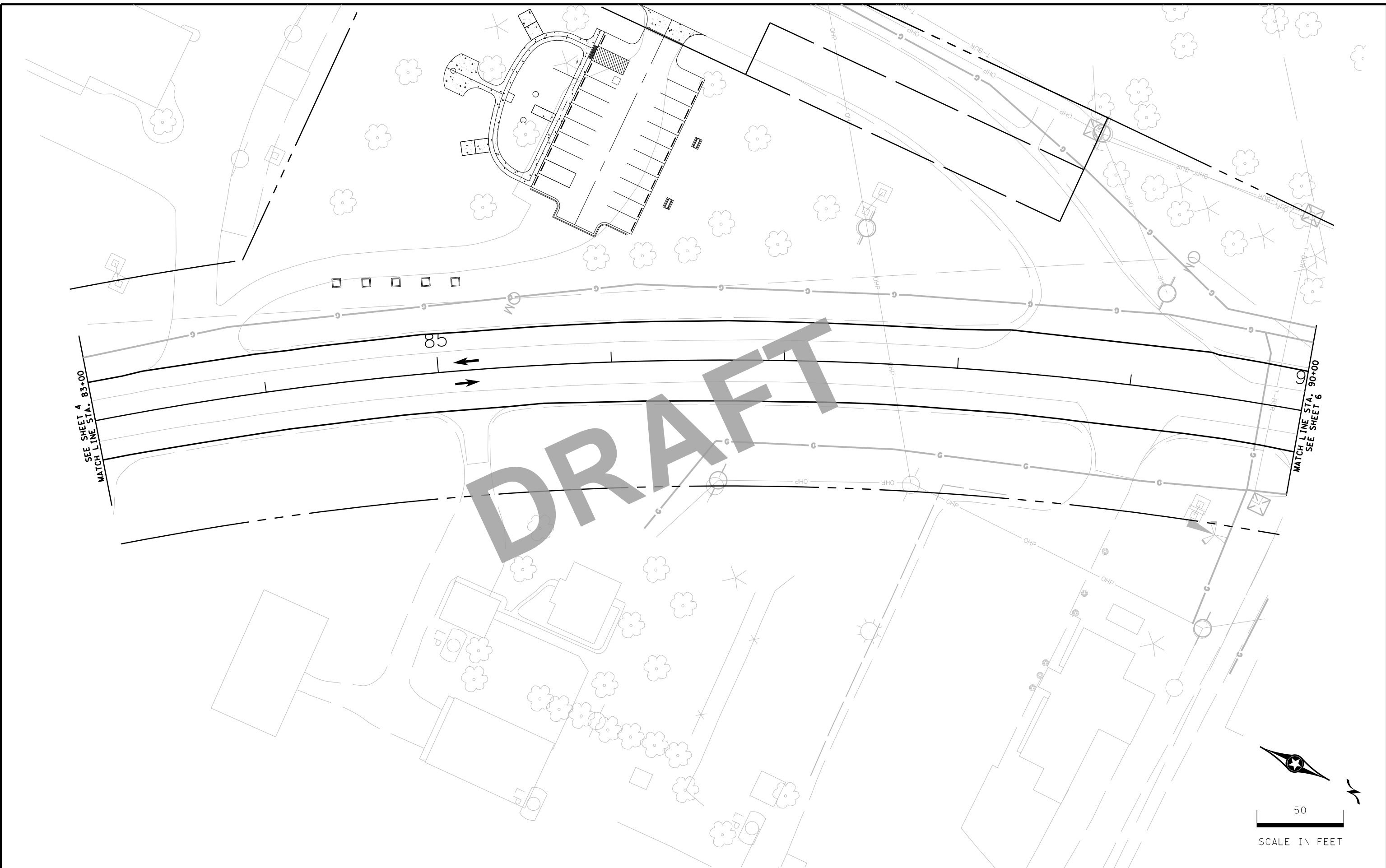


DRAFT





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DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



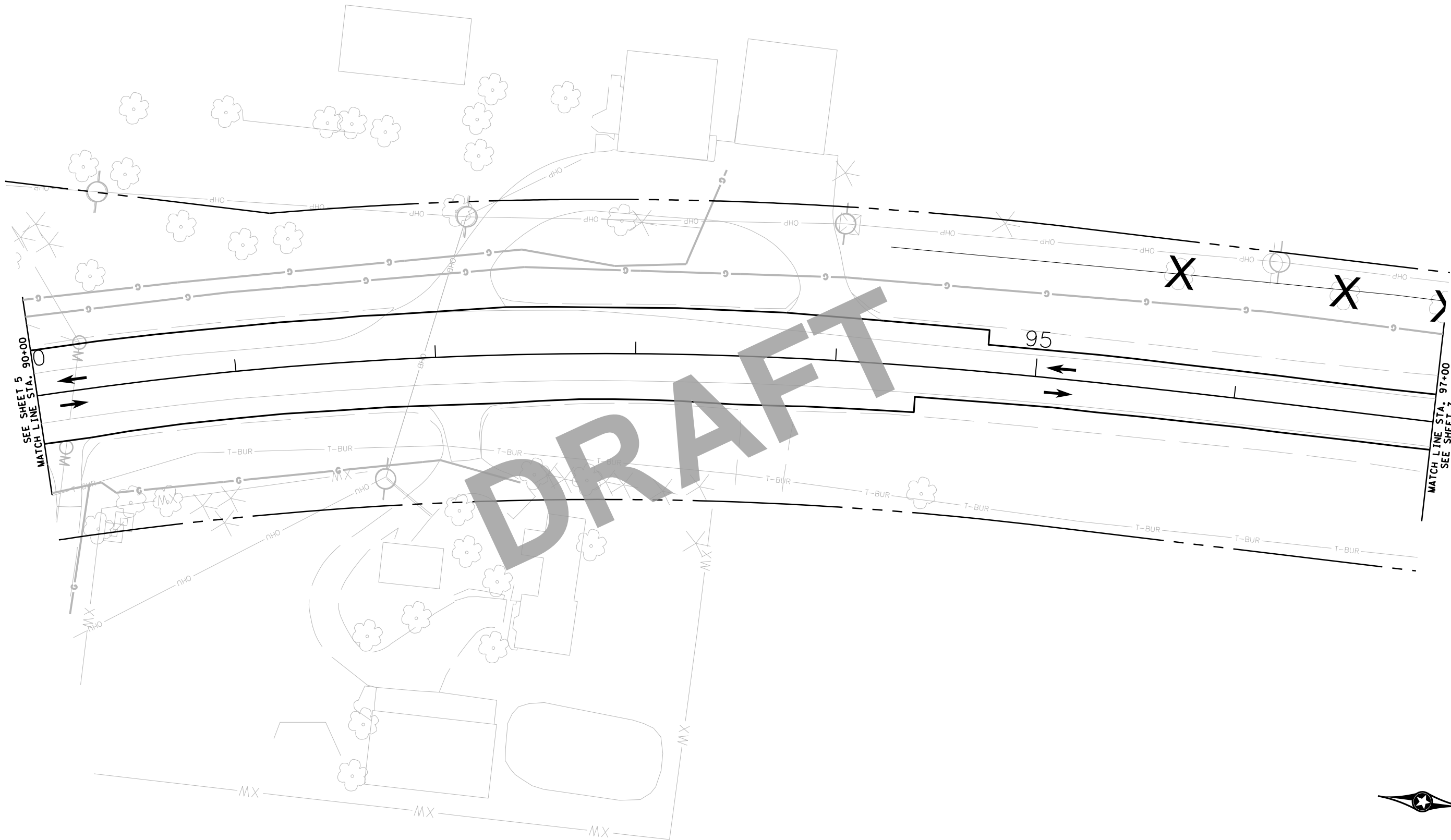
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

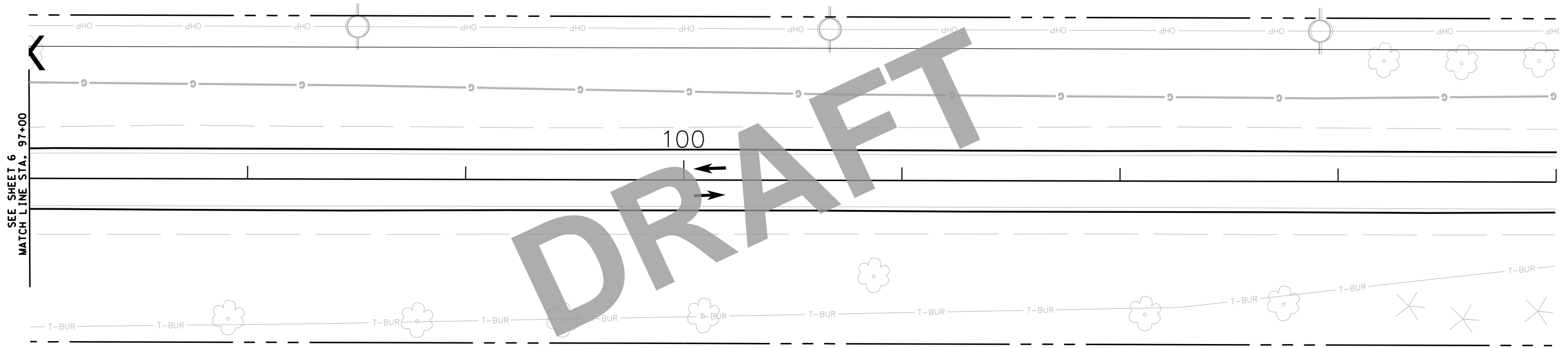
STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 5 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:07 AM  
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DRAWN BY: BAK DESIGNED BY: CCA CHECKED BY: CCA	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____ PRINTED NAME: CANDACE C. AMBERG DATE: 7/28/2017 LIC. NO. 40646		MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO		REMOVAL PLAN	STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 6 of 133 Sheets
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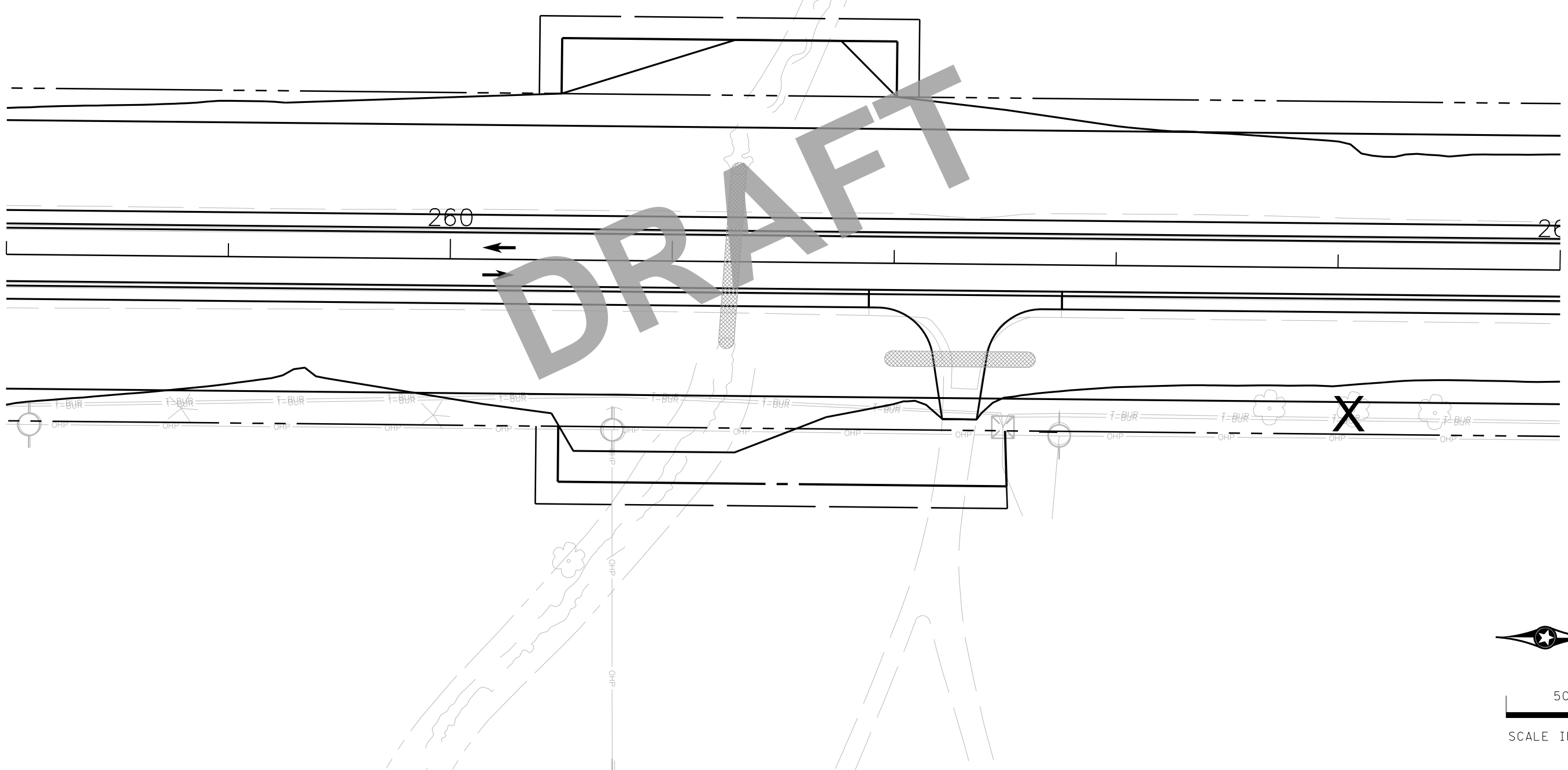
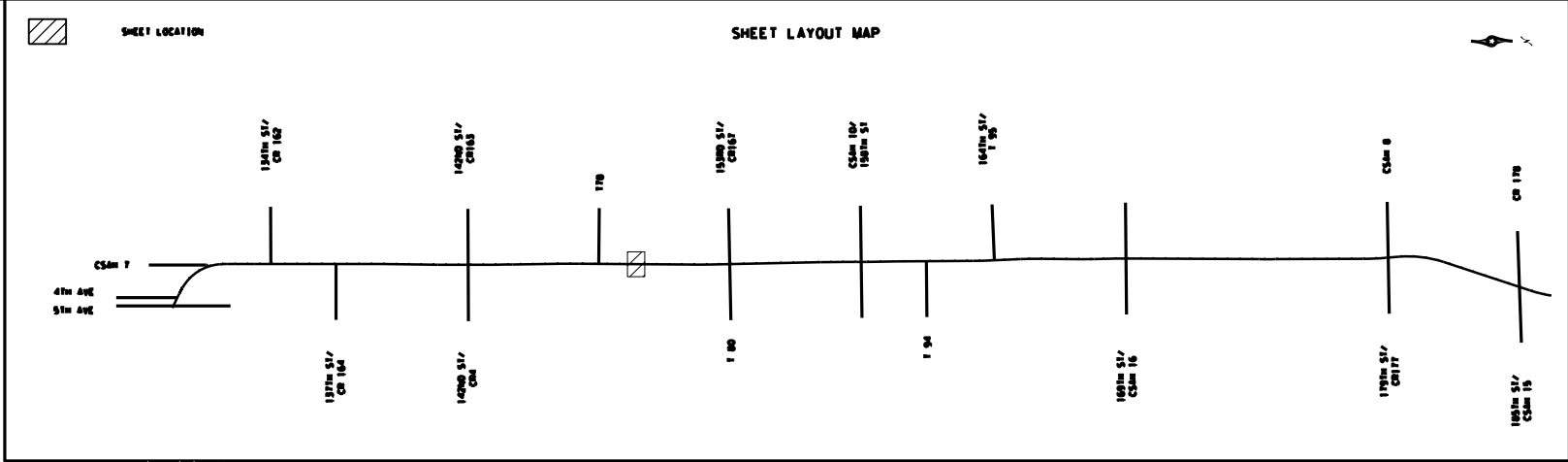
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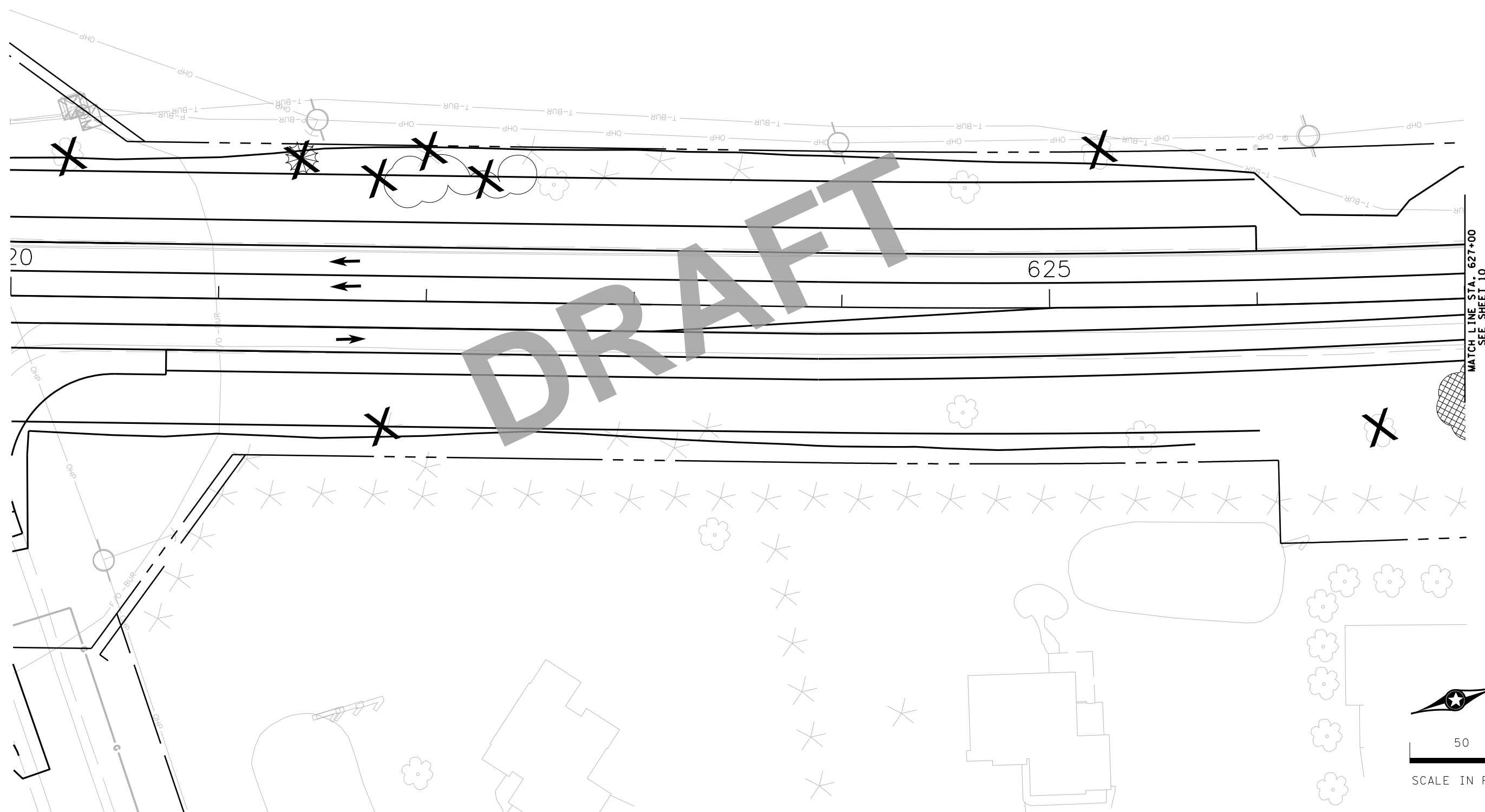
50  
SCALE IN FEET

<b>DRAWN BY:</b> BAK <b>DESIGNED BY:</b> CCA <b>CHECKED BY:</b> CCA	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____ PRINTED NAME: CANDACE C. AMBERG DATE: 7/28/2017 LIC. NO. 40646	 MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO		REMOVAL PLAN	STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 7 of 133 Sheets
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DATE: 7/28/2017 TIME: 9:30:10 AM  
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DATE: 7/28/2017 TIME: 9:37:57 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem001.dgn



MATCH LINE STA. 627+00  
SEE SHEET 10

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



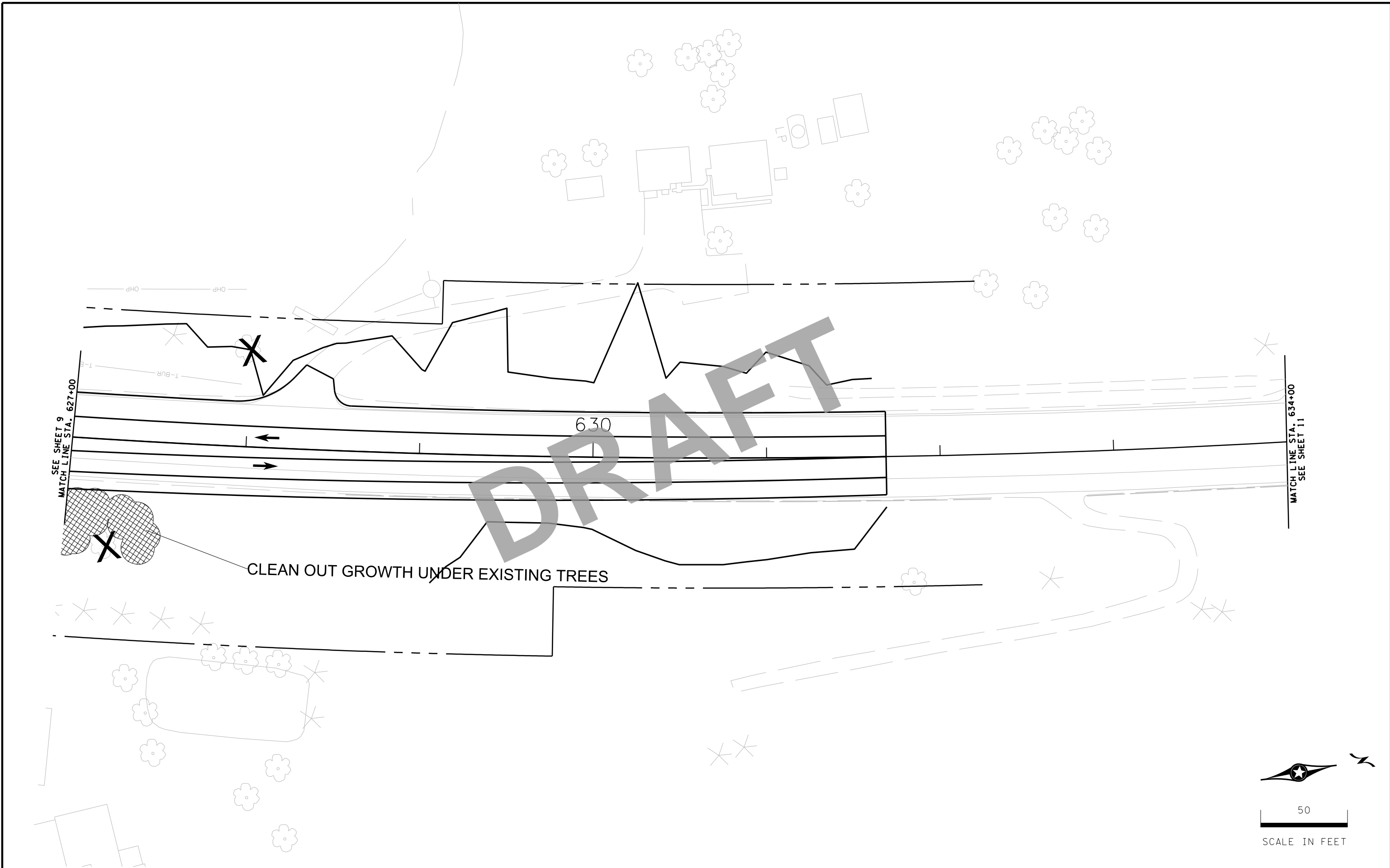
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 9 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:12 AM  
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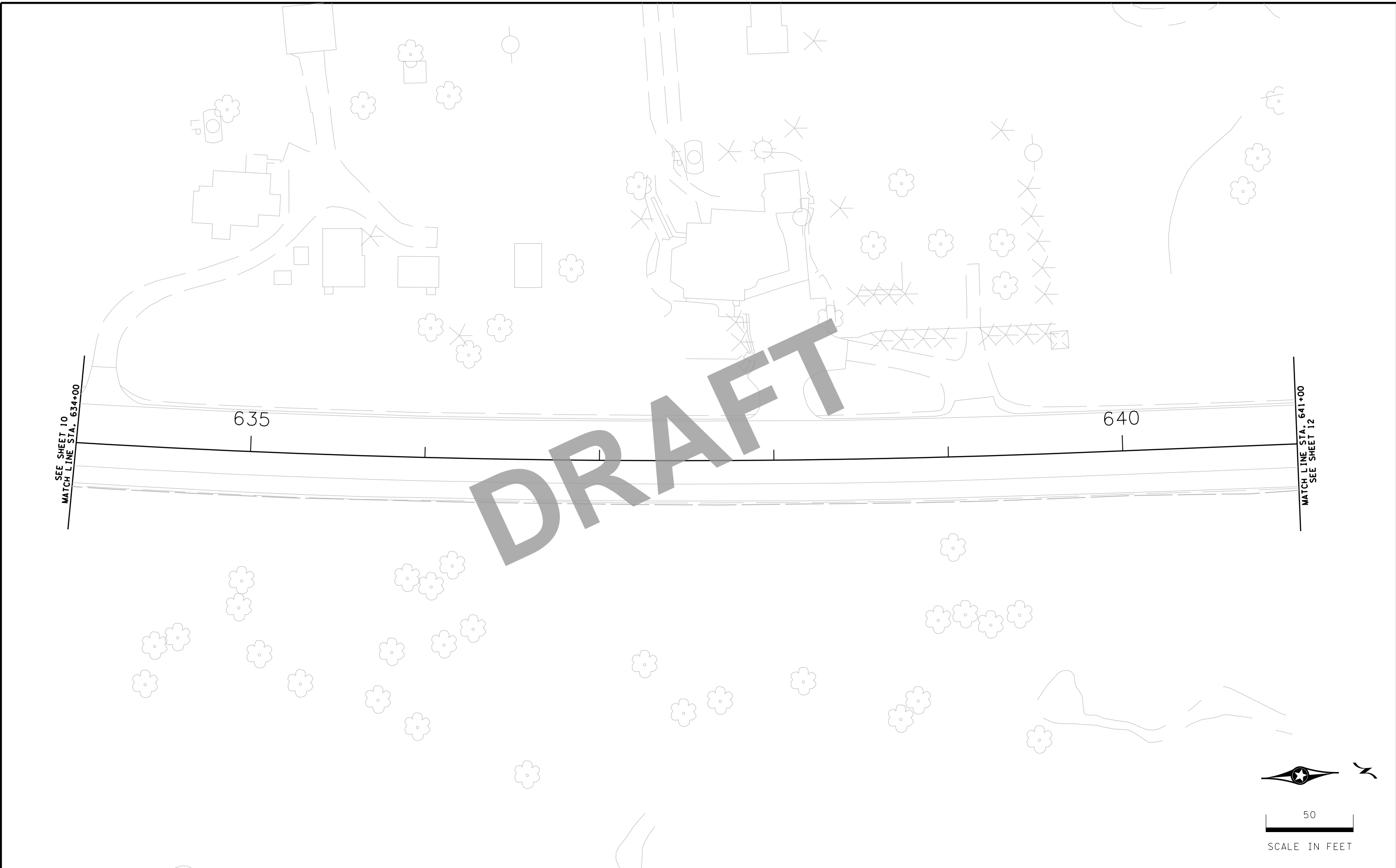


50

SCALE IN FEET

<b>DRAWN BY:</b> BAK <b>DESIGNED BY:</b> CCA <b>CHECKED BY:</b> CCA	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____ PRINTED NAME: CANDACE C. AMBERG DATE: 7/28/2017 LIC. NO. 40646	 MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO		REMOVAL PLAN	STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 10 of 133 Sheets
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DATE: 7/28/2017 TIME: 9:30:14 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem003.dgn



50  
SCALE IN FEET

<p><b>DRAWN BY:</b> BAK <b>DESIGNED BY:</b> CCA <b>CHECKED BY:</b> CCA</p>	<p>I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.</p>	<p>SIGNATURE: _____ PRINTED NAME: CANDACE C. AMBERG DATE: 7/28/2017 LIC. NO. 40646</p>	<p> MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO</p>		<p>REMOVAL PLAN</p>	<p>STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 11 of 133 Sheets</p>
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DATE: 7/28/2017 TIME: 9:30:15 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem004.dgn

SEE SHEET 11  
MATCH LINE STA. 641+00

MATCH LINE STA. 648+00  
SEE SHEET 13

645

DRAFT



50

SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 12 of 133 Sheets



DATE: 7/28/2017 TIME: 9:30:16 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem005.dgn

SEE SHEET 12  
MATCH LINE STA. 648+00

650

MATCH LINE STA. 655+00  
SEE SHEET 14

DRAFT



50

SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

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MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 13 of 133 Sheets

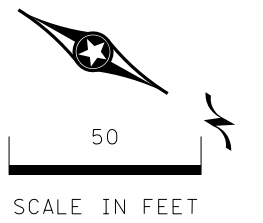
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SEE SHEET 13  
MATCH LINE STA. 655+00

MATCH LINE STA. 662+00  
SEE SHEET 15

CLEAN OUT GROWTH  
UNDER EXISTING TREES

DRAFT



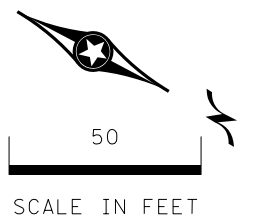
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SEE SHEET 14  
MATCH LINE STA. 662+00

MATCH LINE STA. 669+00  
SEE SHEET 16

665

DRAFT



DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 15 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:24 AM  
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DRAFT

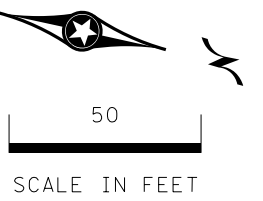


<b>DRAWN BY:</b> BAK	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	<b>SIGNATURE:</b> _____	 MINNESOTA DEPARTMENT OF TRANSPORTATION		REMOVAL PLAN	STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 16 of 133 Sheets
<b>DESIGNED BY:</b> CCA		<b>PRINTED NAME:</b> CANDACE C. AMBERG				
<b>CHECKED BY:</b> CCA		<b>DATE:</b> 7/28/2017 <b>LIC. NO.:</b> 40646				

DATE: 7/28/2017 TIME: 9:30:25 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem009.dgn



DRAFT



<b>DRAWN BY:</b> BAK	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____	 MINNESOTA DEPARTMENT OF TRANSPORTATION	 WSB	REMOVAL PLAN	STATE PROJ. NO. 0704-110 (T.H. 22)	
<b>DESIGNED BY:</b> CCA		PRINTED NAME: CANDACE C. AMBERG					TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO
<b>CHECKED BY:</b> CCA		DATE: 7/28/2017 LIC. NO. 40646					

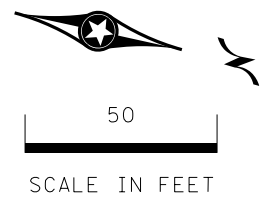
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FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem010.dgn

SEE SHEET 17  
MATCH LINE STA. 683+00

685

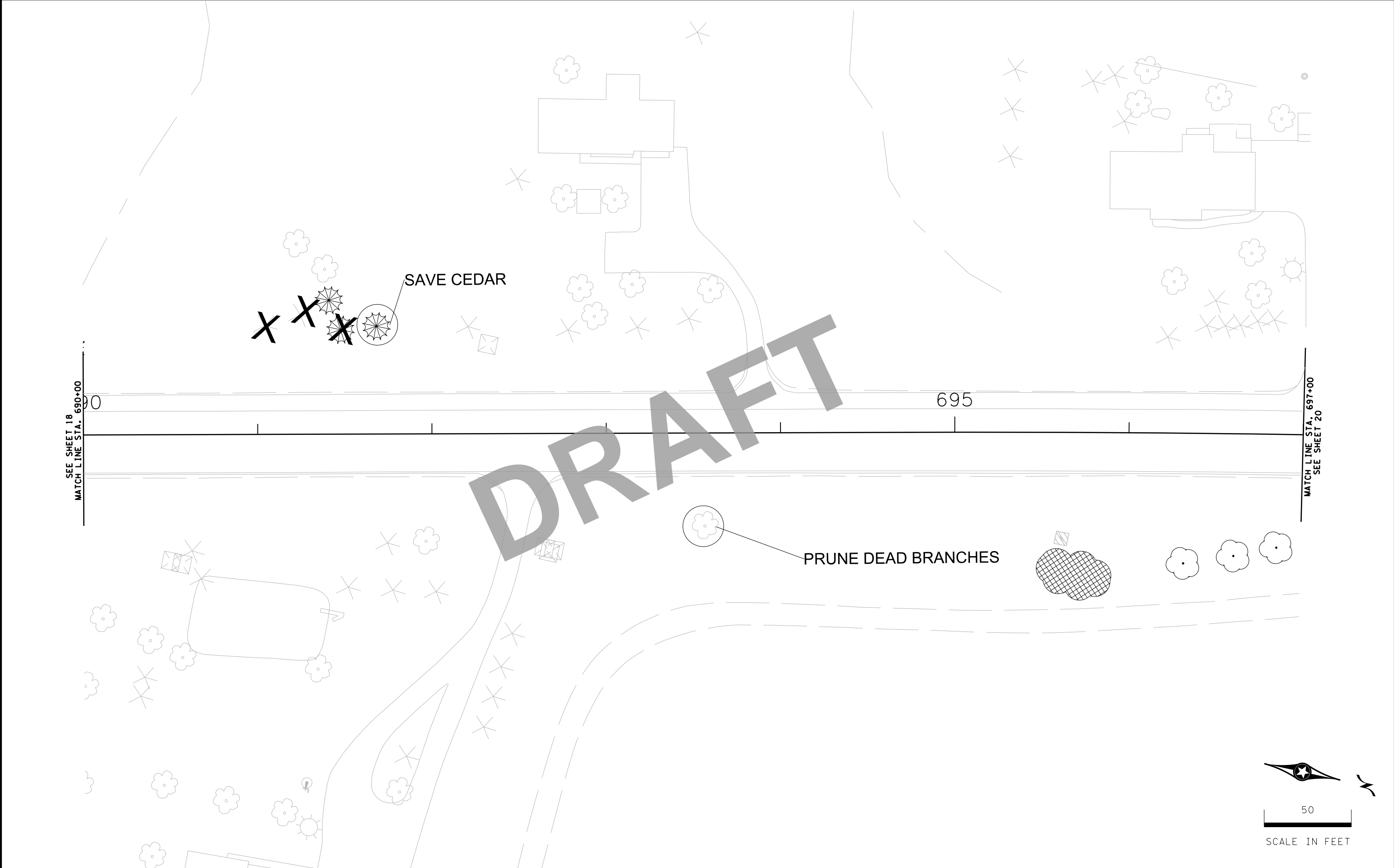
MATCH LINE STA. 690+00  
SEE SHEET 19

DRAFT



<p><b>DRAWN BY:</b> BAK <b>DESIGNED BY:</b> CCA <b>CHECKED BY:</b> CCA</p>	<p>I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.</p>	<p>SIGNATURE: _____ PRINTED NAME: CANDACE C. AMBERG DATE: 7/28/2017 LIC. NO. 40646</p>	<p> MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO</p>	<p></p>	<p>REMOVAL PLAN</p>	<p>STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 18 of 133 Sheets</p>
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DATE: 7/28/2017 TIME: 9:30:28 AM  
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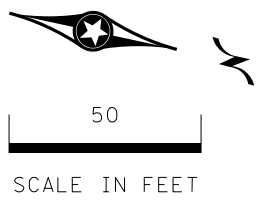
SEE SHEET 18  
MATCH LINE STA. 690+00

MATCH LINE STA. 697+00  
SEE SHEET 20

DRAFT

SAVE CEDAR

PRUNE DEAD BRANCHES



DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



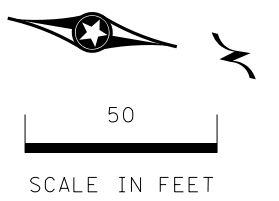
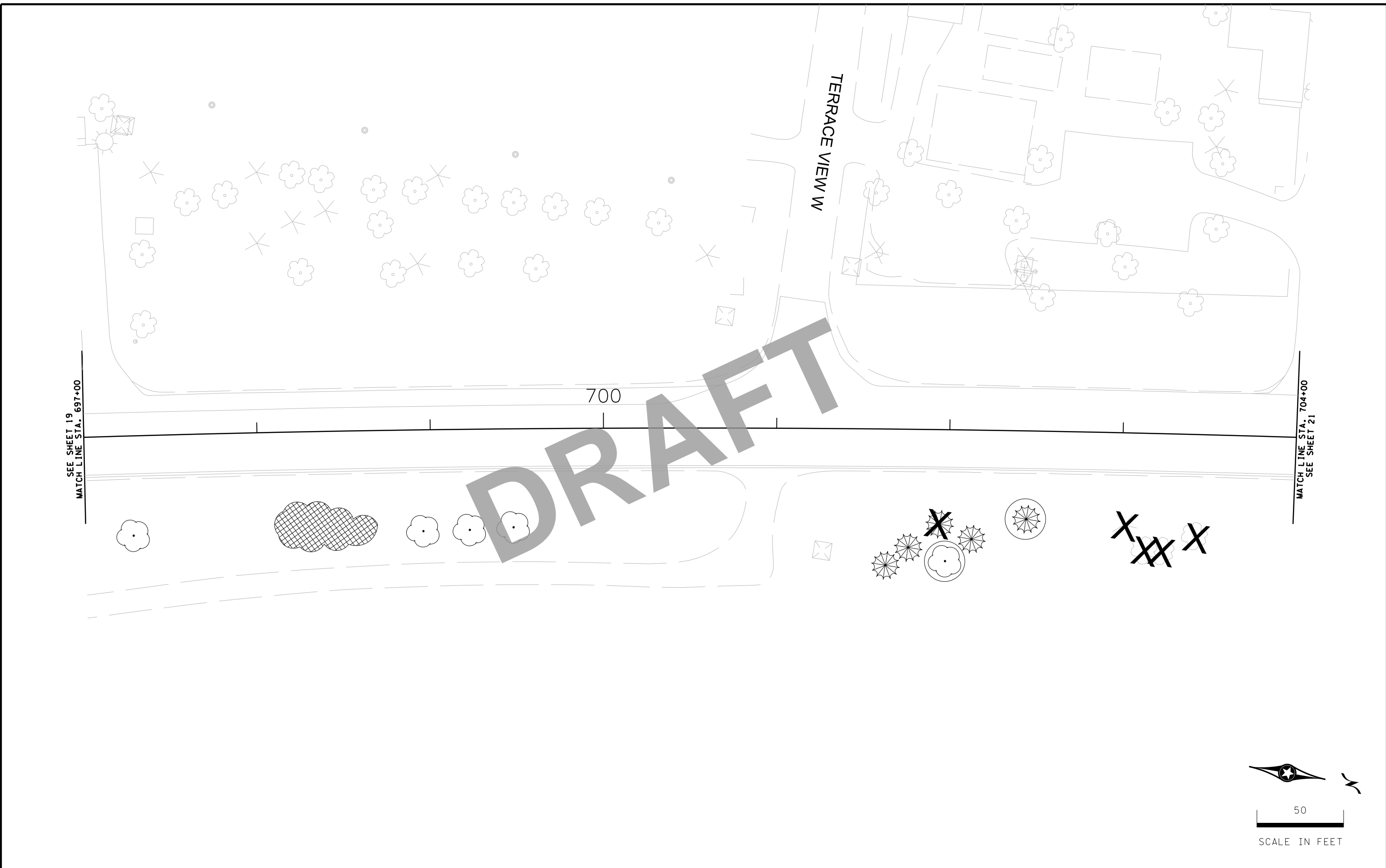
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 19 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:29 AM  
 FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem012.dgn



**DRAWN BY:** BAK  
**DESIGNED BY:** CCA  
**CHECKED BY:** CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
 PRINTED NAME: CANDACE C. AMBERG  
 DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO

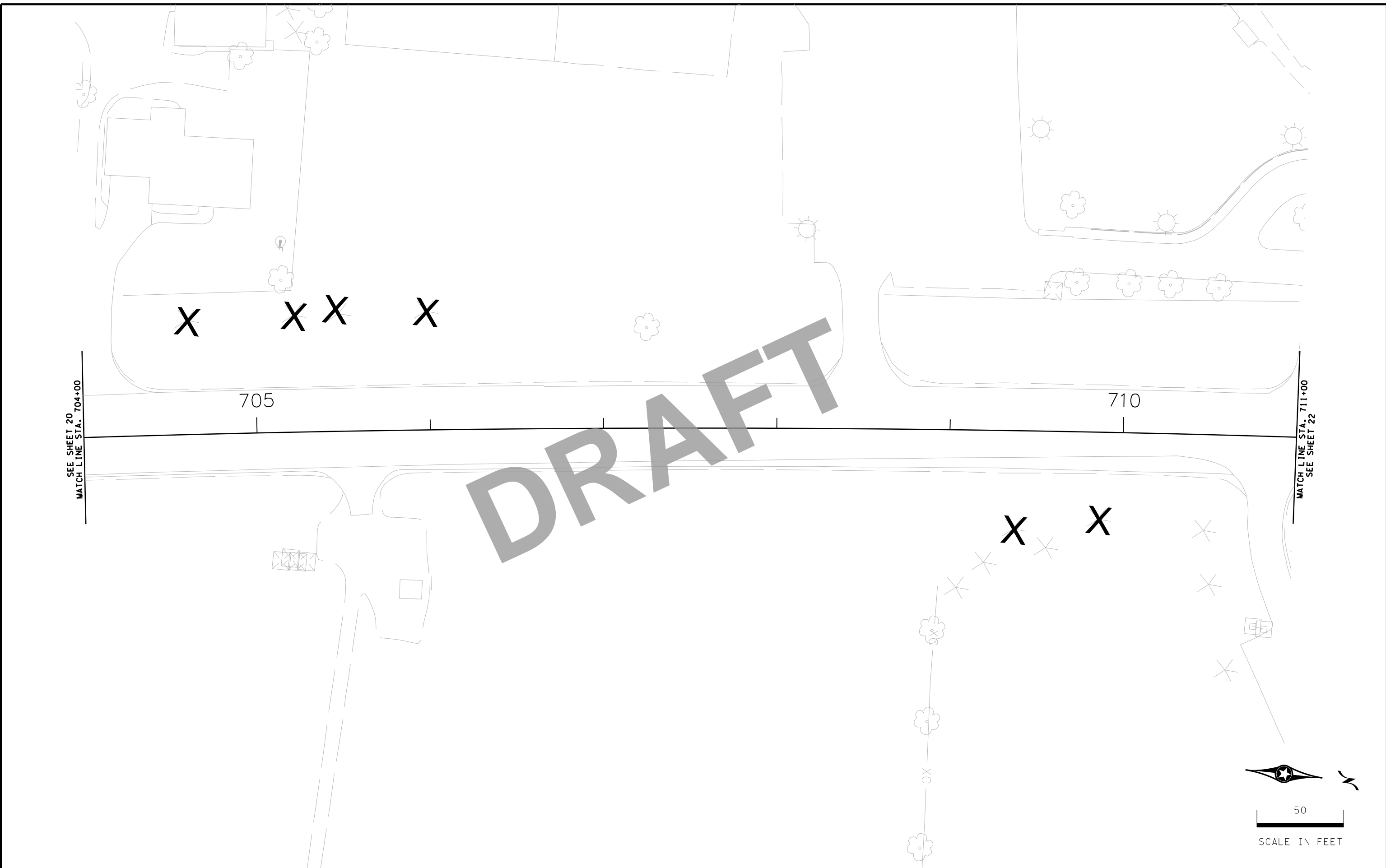


REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 20 of 133 Sheets



DATE: 7/28/2017 TIME: 9:30:30 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem013.dgn



DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 21 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:31 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem014.dgn

SEE SHEET 21  
MATCH LINE STA. 711+00

MATCH LINE STA. 718+00  
SEE SHEET 23

DRAFT

715

TERRACE VIEW

193rd LN



50  
SCALE IN FEET

<b>DRAWN BY:</b> BAK	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____
<b>DESIGNED BY:</b> CCA		PRINTED NAME: CANDACE C. AMBERG
<b>CHECKED BY:</b> CCA		DATE: 7/28/2017 LIC. NO. 40646



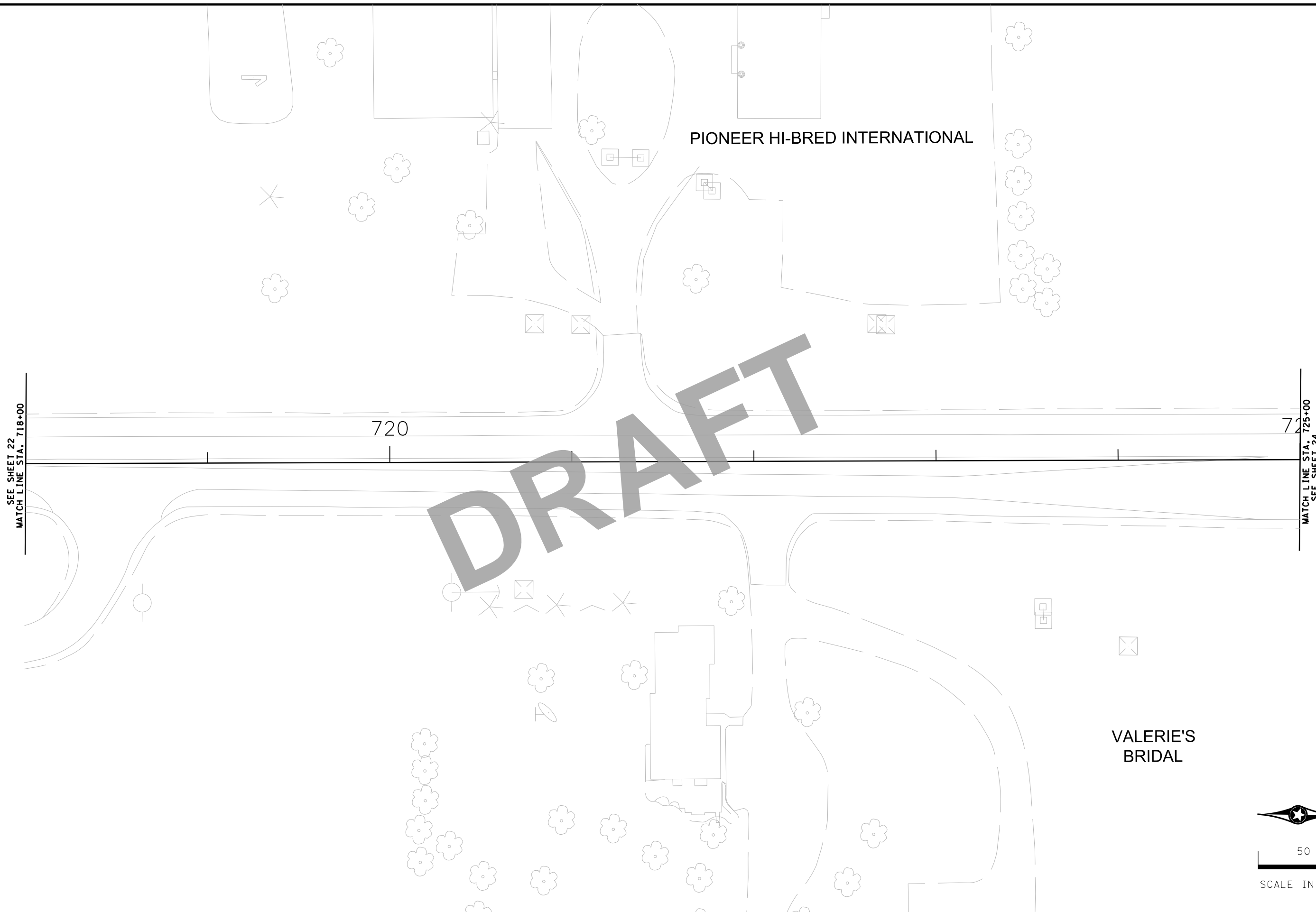
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



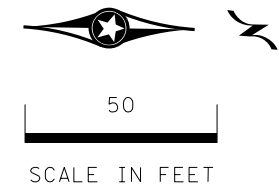
REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 22 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:33 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem015.dgn



DRAFT

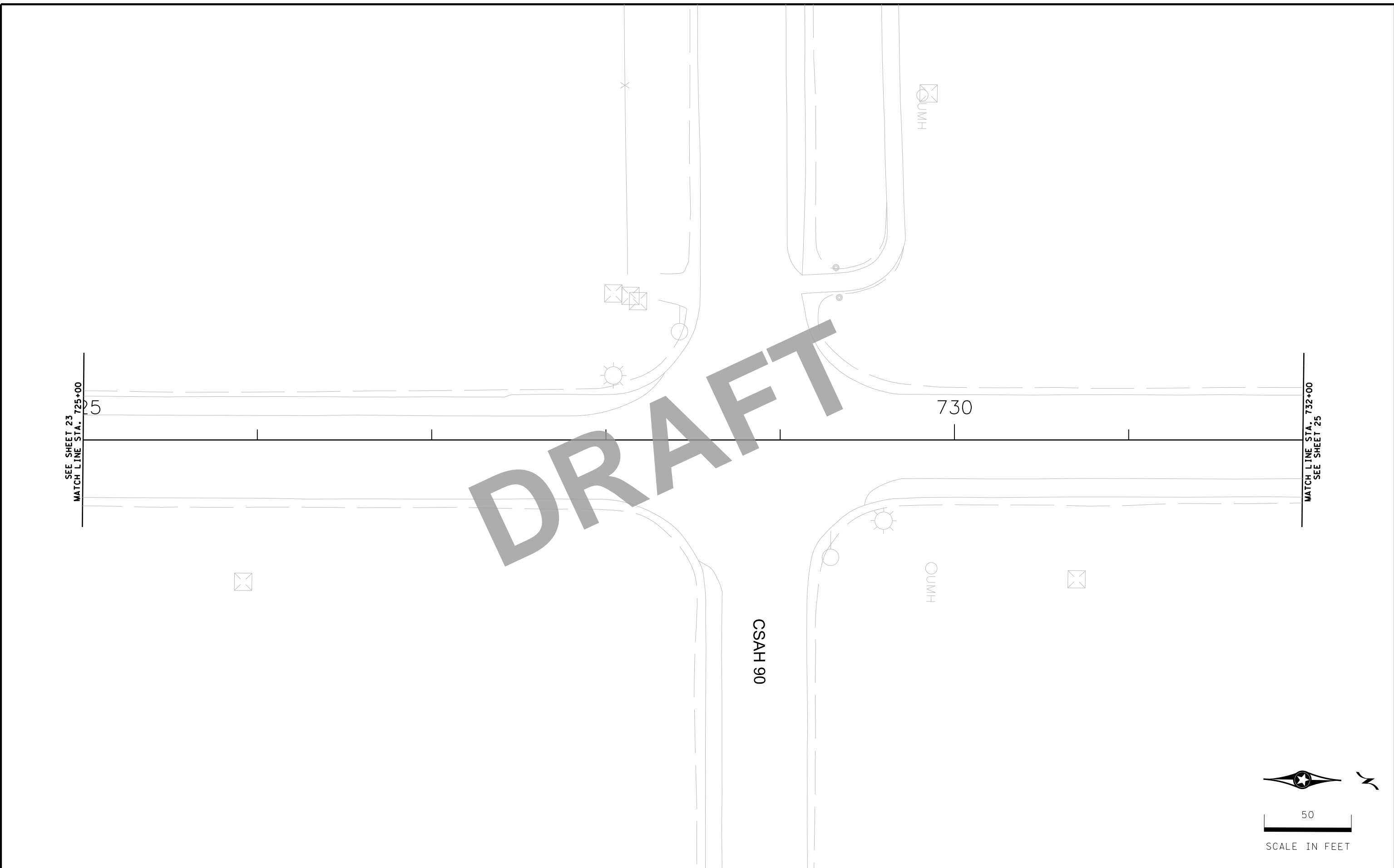


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FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem016.dgn

SEE SHEET 23  
MATCH LINE STA. 725+00

MATCH LINE STA. 732+00  
SEE SHEET 25

DRAFT



DRAWN BY: BAK DESIGNED BY: CCA CHECKED BY: CCA	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____ PRINTED NAME: CANDACE C. AMBERG DATE: 7/28/2017 LIC. NO. 40646	 MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO		REMOVAL PLAN	STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 24 of 133 Sheets
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DATE: 7/28/2017 TIME: 9:30:35 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem017.dgn

SEE SHEET 24  
MATCH LINE STA. 732+00

MATCH LINE STA. 739+00  
SEE SHEET 26

735

DRAFT

X

X



50

SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



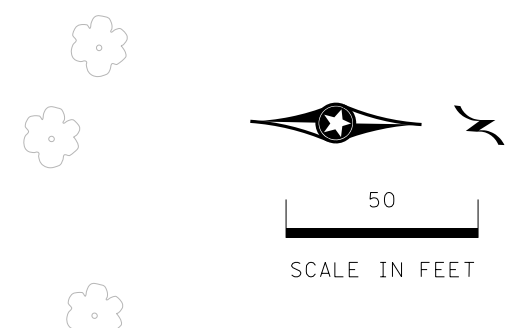
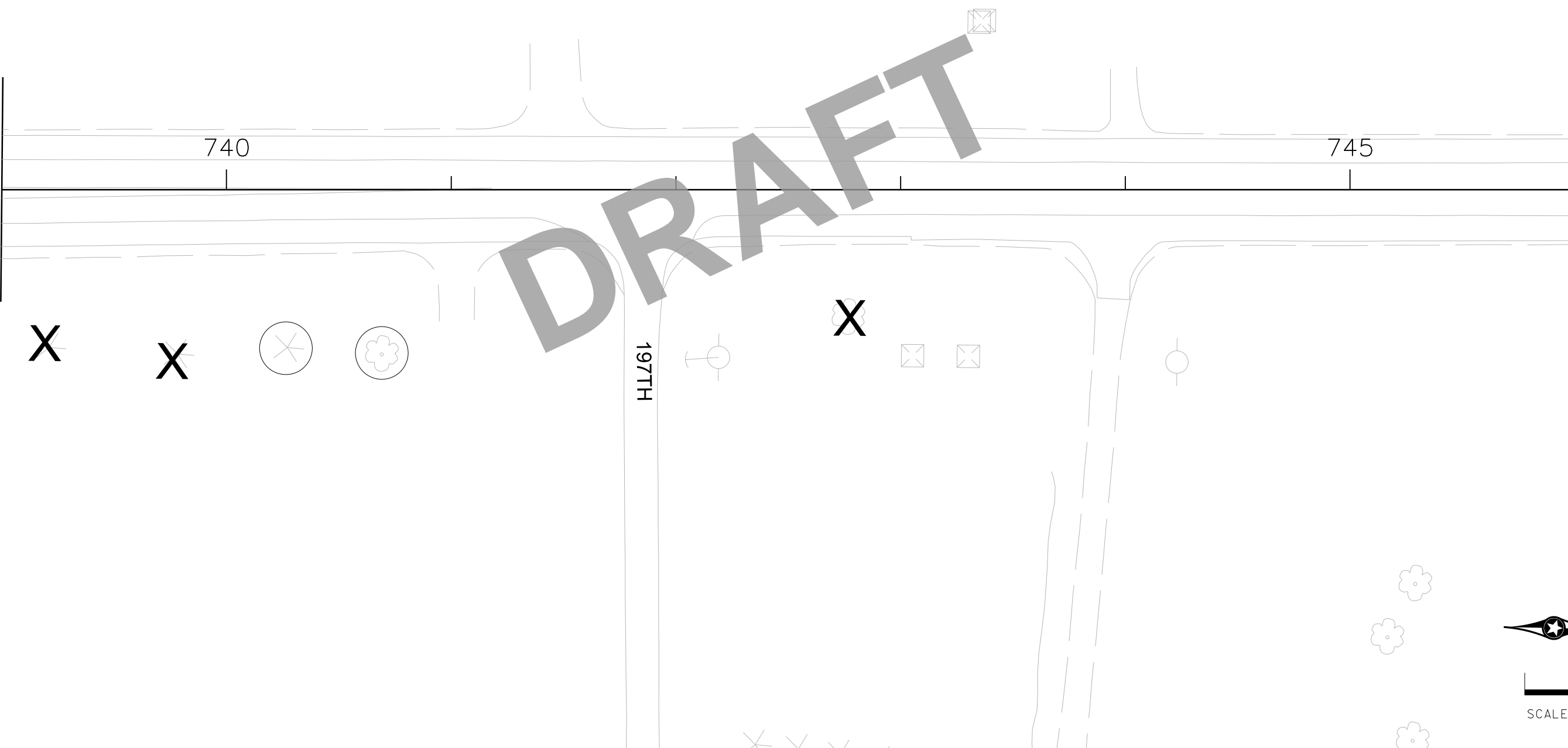
REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 25 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:36 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem018.dgn

SEE SHEET 25  
MATCH LINE STA. 739+00

MATCH LINE STA. 746+00  
SEE SHEET 27



<b>DRAWN BY:</b> BAK	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____
<b>DESIGNED BY:</b> CCA		PRINTED NAME: CANDACE C. AMBERG
<b>CHECKED BY:</b> CCA		DATE: 7/28/2017 LIC. NO. 40646


**MINNESOTA DEPARTMENT OF TRANSPORTATION**  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 26 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:37 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem019.dgn

SEE SHEET 26  
MATCH LINE STA. 746+00

MATCH LINE STA. 753+00  
SEE SHEET 28

DRAFT

750

X X X X

X



50

SCALE IN FEET

<b>DRAWN BY:</b> BAK	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____
<b>DESIGNED BY:</b> CCA		PRINTED NAME: CANDACE C. AMBERG
<b>CHECKED BY:</b> CCA		DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 27 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:39 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem020.dgn

SEE SHEET 27  
MATCH LINE STA. 753+00

SEE SHEET 29

CLEAN OUT GROWTH UNDER EXISTING TREES

755

LARGE SHRUBS

DRAFT



50

SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO

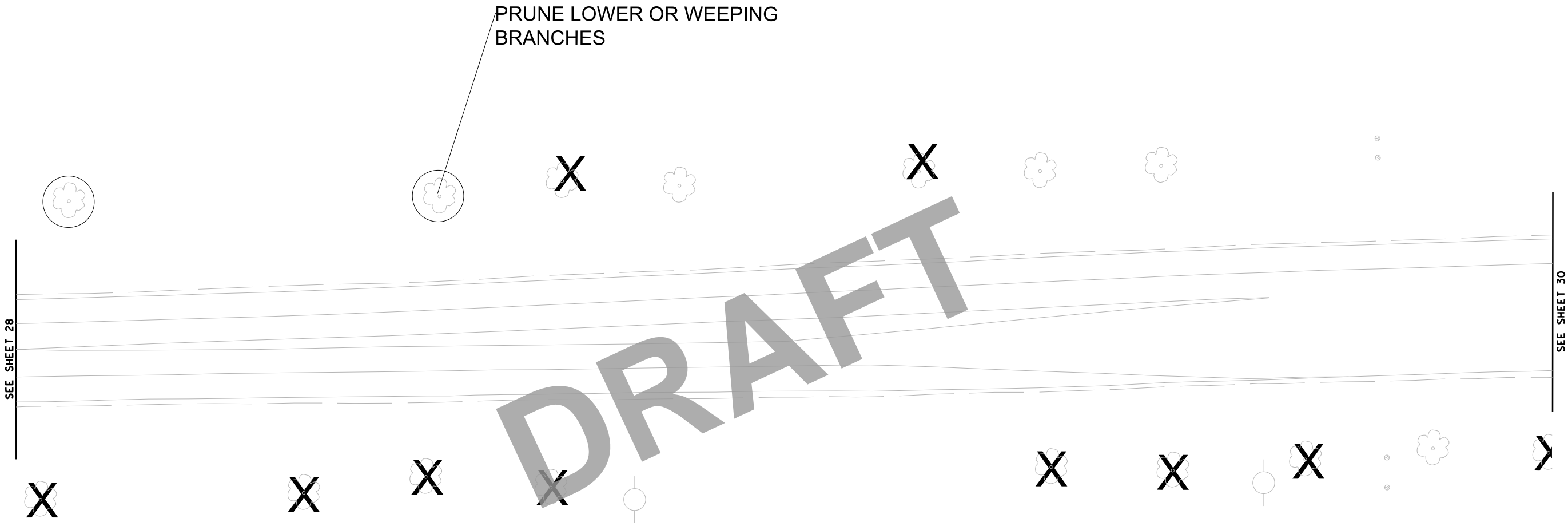


REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 28 of 133 Sheets

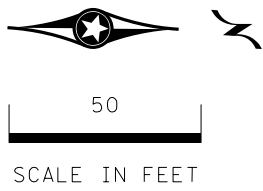


DATE: 7/28/2017 TIME: 9:30:40 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem021.dgn



DRAFT

PRUNE LOWER OR WEEPING  
BRANCHES



DATE: 7/28/2017 TIME: 9:30:41 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem022.dgn

SEE SHEET 29

SEE SHEET 31

PETROLEUM EQUIPMENT COMPANY

PRUNE DEAD BRANCHES

SMALLER PATCHES OF VOLUNTARY PLANTINGS

JK'S CONSTRUCTION & CONCRETE

DRAFT



50  
SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO

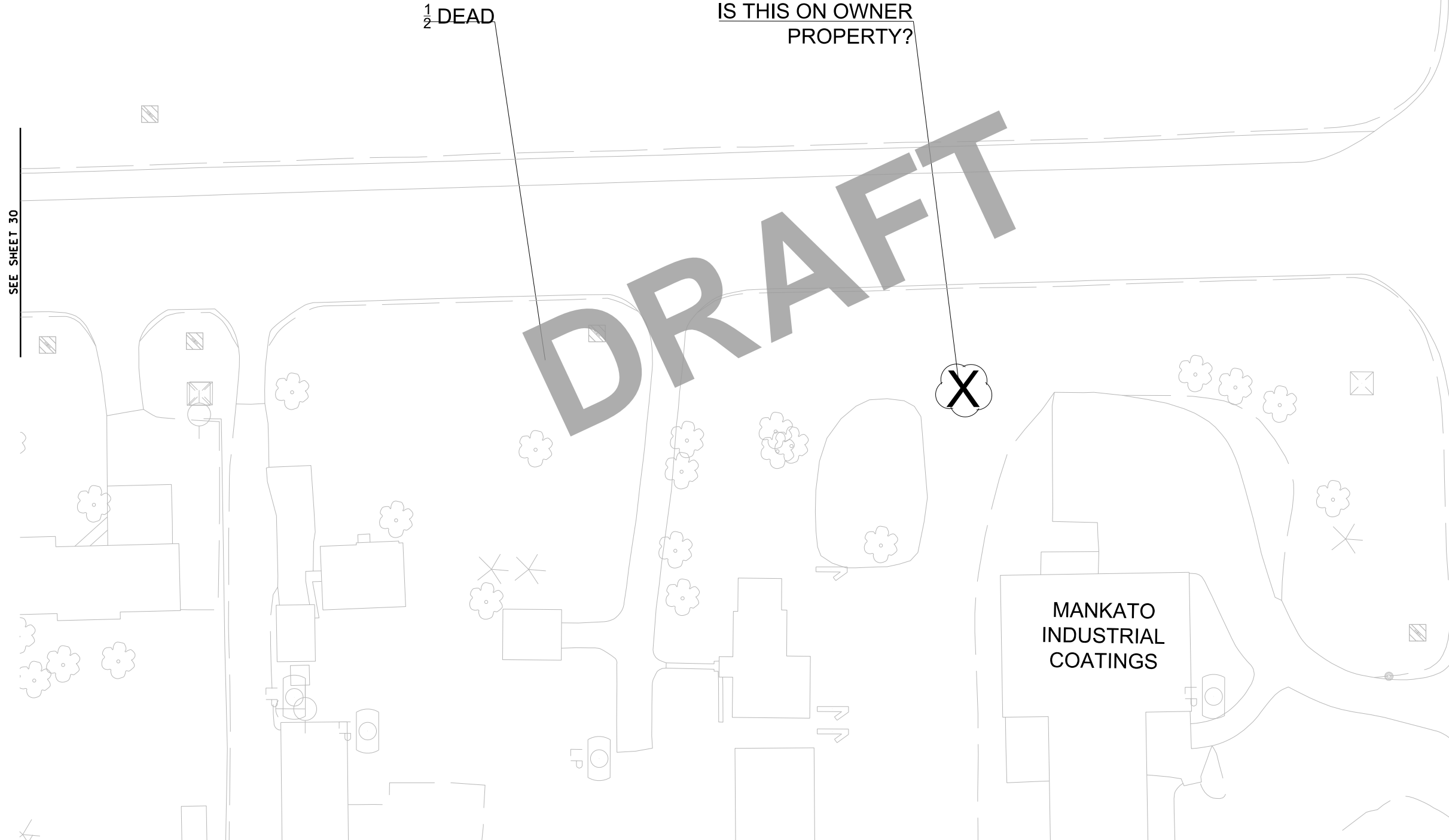


REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 30 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:42 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem023.dgn

SEE SHEET 30



200th ST

1/2 DEAD

IS THIS ON OWNER PROPERTY?

DRAFT

X

MANKATO INDUSTRIAL COATINGS

SEE SHEET 32



50  
SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 31 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:43 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem024.dgn

SEE SHEET 31

SEE SHEET 33

DRAFT



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SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



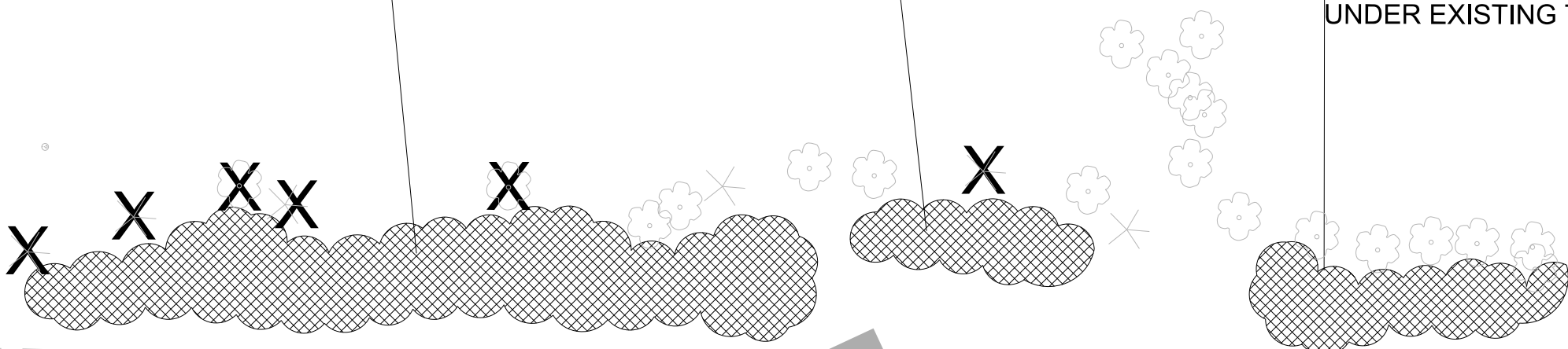
REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 32 of 133 Sheets

CLEAN OUT GROWTH  
UNDER EXISTING TREES

SAVE SUMAC

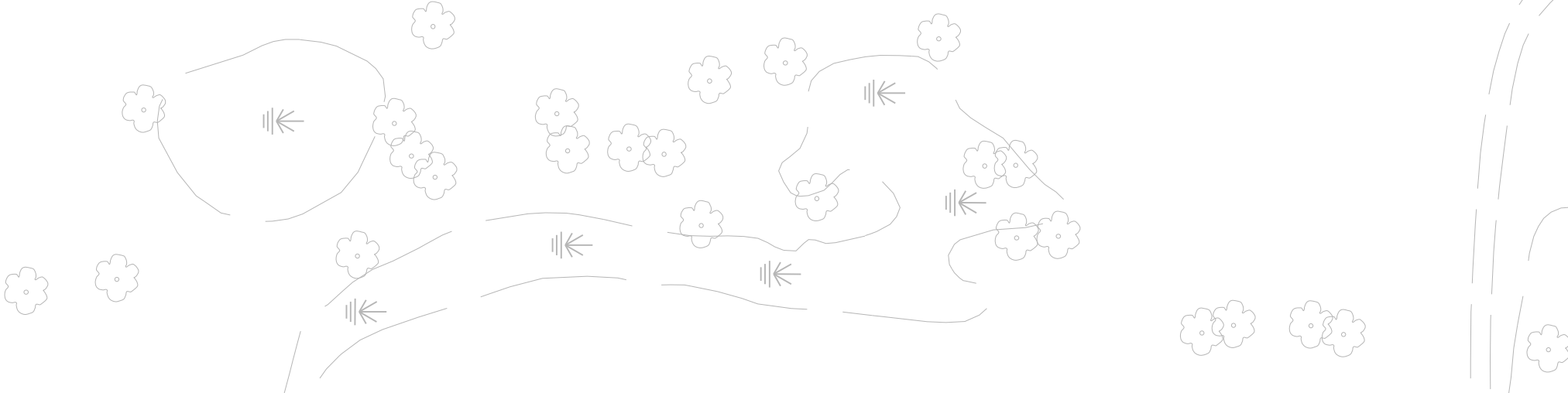
CLEAN OUT GROWTH  
UNDER EXISTING TREES



SEE SHEET 32

SEE SHEET 34

DRAFT



50  
SCALE IN FEET

DATE: 7/28/2017 TIME: 9:30:45 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem025.dgn

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 33 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:46 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem026.dgn

SEE SHEET 33

SEE SHEET 35

CLEAN OUT GROWTH UNDER EXISTING TREES

CLEAN UP EXTENSIVE AMOUNT OF VOLUNTEER PLANTINGS

REMOVE SMALLER GROWTH

VOLUNTEER PLANTINGS

DRAFT



50

SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



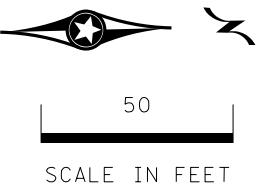
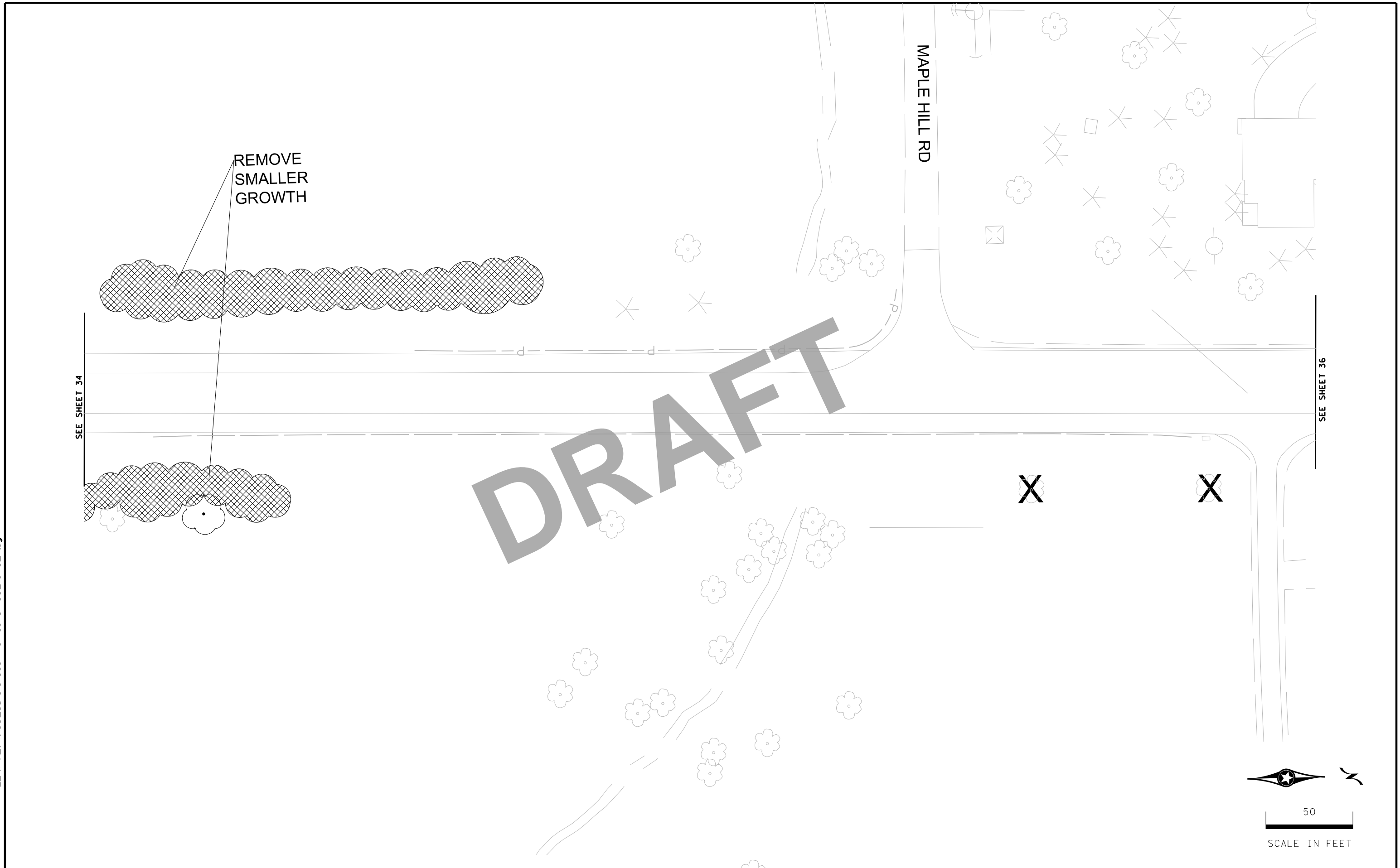
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 34 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:47 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem027.dgn



DRAWN BY: BAK DESIGNED BY: CCA CHECKED BY: CCA	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____ PRINTED NAME: CANDACE C. AMBERG DATE: 7/28/2017 LIC. NO. 40646	 MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO		REMOVAL PLAN	STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 35 of 133 Sheets
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DATE: 7/28/2017 TIME: 9:30:48 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem028.dgn

SEE SHEET 35

SEE SHEET 37

DRAFT

REMOVE  
SMALLER  
GROWTH



50

SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 36 of 133 Sheets



DATE: 7/28/2017 TIME: 9:30:50 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem029.dgn

SEE SHEET 36

SEE SHEET 38

REMOVE  
SMALLER  
GROWTH

DRAFT



50

SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 37 of 133 Sheets

DATE: 7/28/2017 TIME: 9:30:51 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_rem030.dgn

SEE SHEET 37

CUT OFF

SAVE

DRAFT



50

SCALE IN FEET

DRAWN BY: BAK  
DESIGNED BY: CCA  
CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



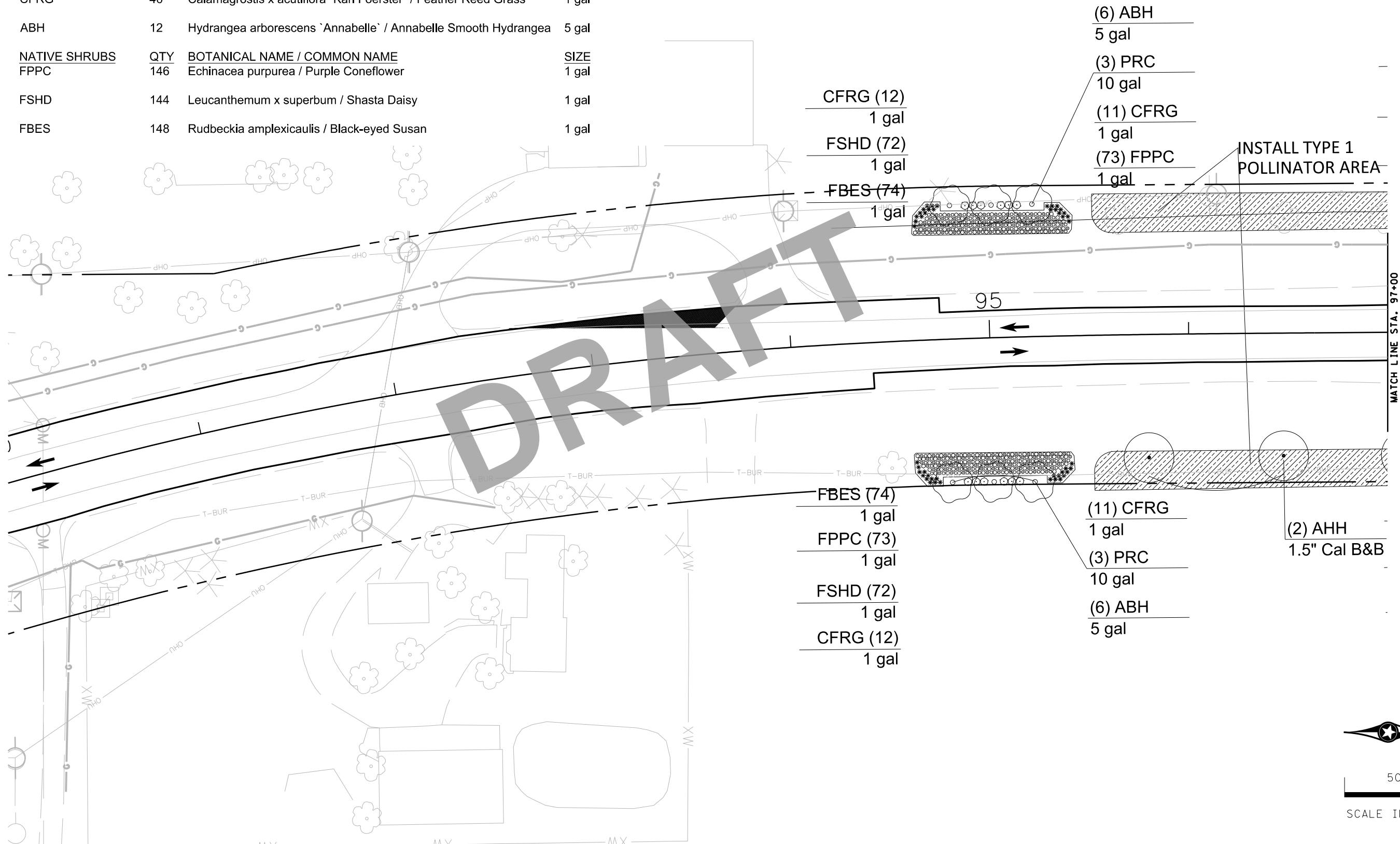
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



REMOVAL PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 38 of 133 Sheets

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AHH	2	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
CFRG	46	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	1 gal
ABH	12	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal
NATIVE SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
FPPC	146	Echinacea purpurea / Purple Coneflower	1 gal
FSHD	144	Leucanthemum x superbum / Shasta Daisy	1 gal
FBES	148	Rudbeckia amplexicaulis / Black-eyed Susan	1 gal



DATE: 7/28/2017 TIME: 9:31:00 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_in01.dgn

DRAFT

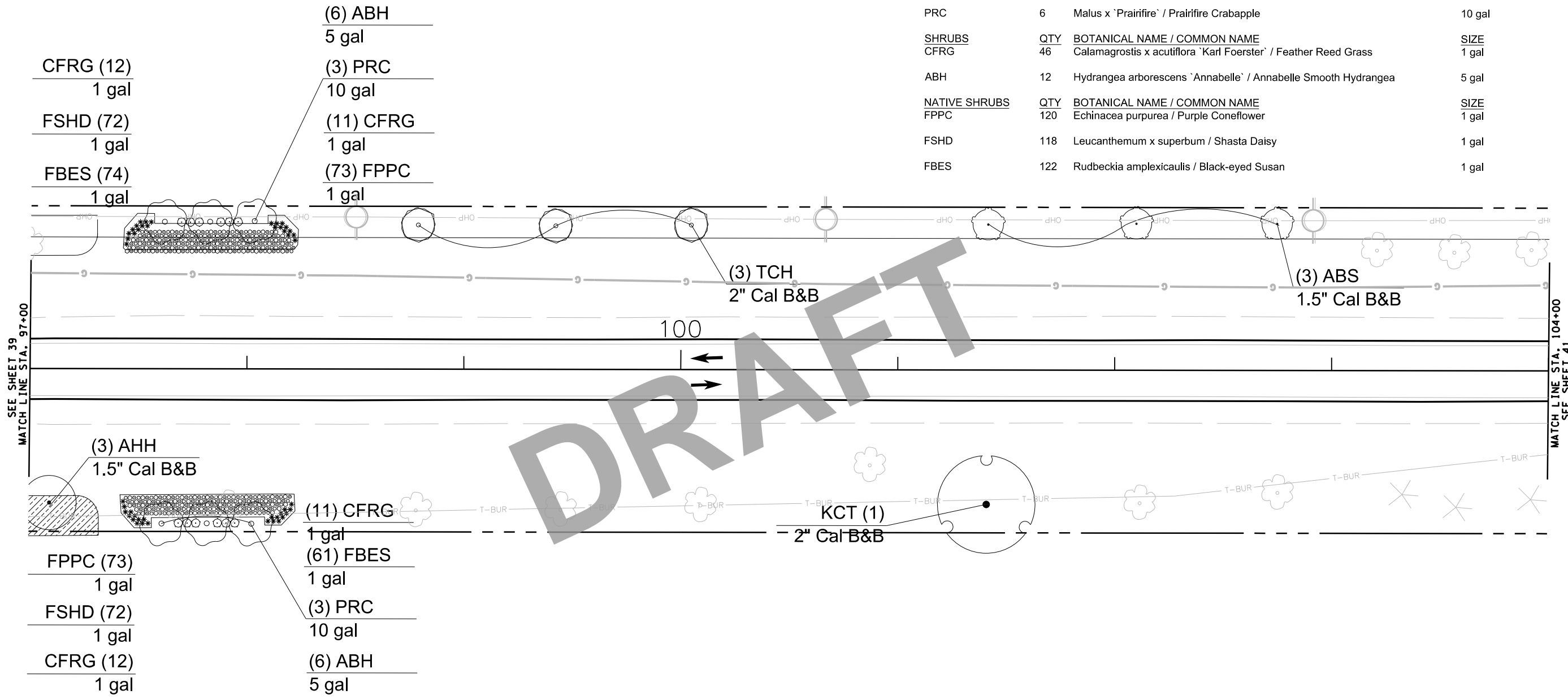


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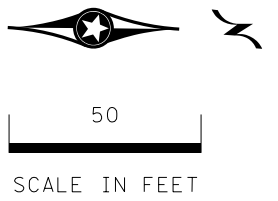
SCALE IN FEET

DATE: 7/28/2017 TIME: 9:31:02 AM  
 FILENAME: K:\03265-010\Cad\Plan\cd704100\_in02.dgn

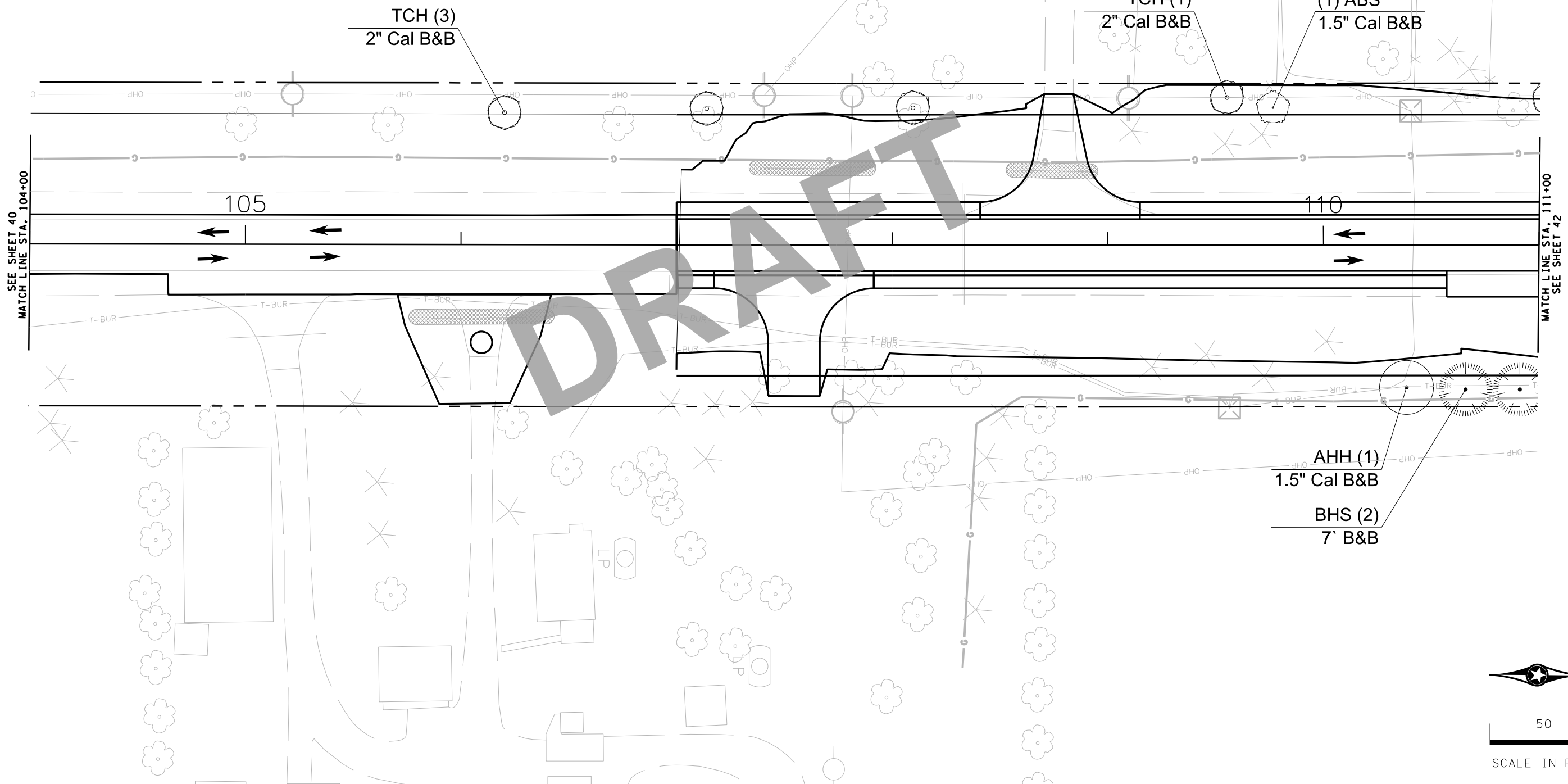
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
KCT	1	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	3	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
TCH	3	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
CFRG	46	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	1 gal
ABH	12	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal
NATIVE SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
FPPC	120	Echinacea purpurea / Purple Coneflower	1 gal
FSHD	118	Leucanthemum x superbum / Shasta Daisy	1 gal
FBES	122	Rudbeckia amplexicaulis / Black-eyed Susan	1 gal



DRAFT



TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	2	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	1	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
TCH	5	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B



DATE: 7/28/2017 TIME: 9:31:03 AM  
 FILENAME: K:\03265-010\Cad\Plan\cd704100\_1n03.dgn

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SIGNATURE: \_\_\_\_\_  
 PRINTED NAME: CANDACE C. AMBERG  
 DATE: 7/28/2017 LIC. NO. 40646

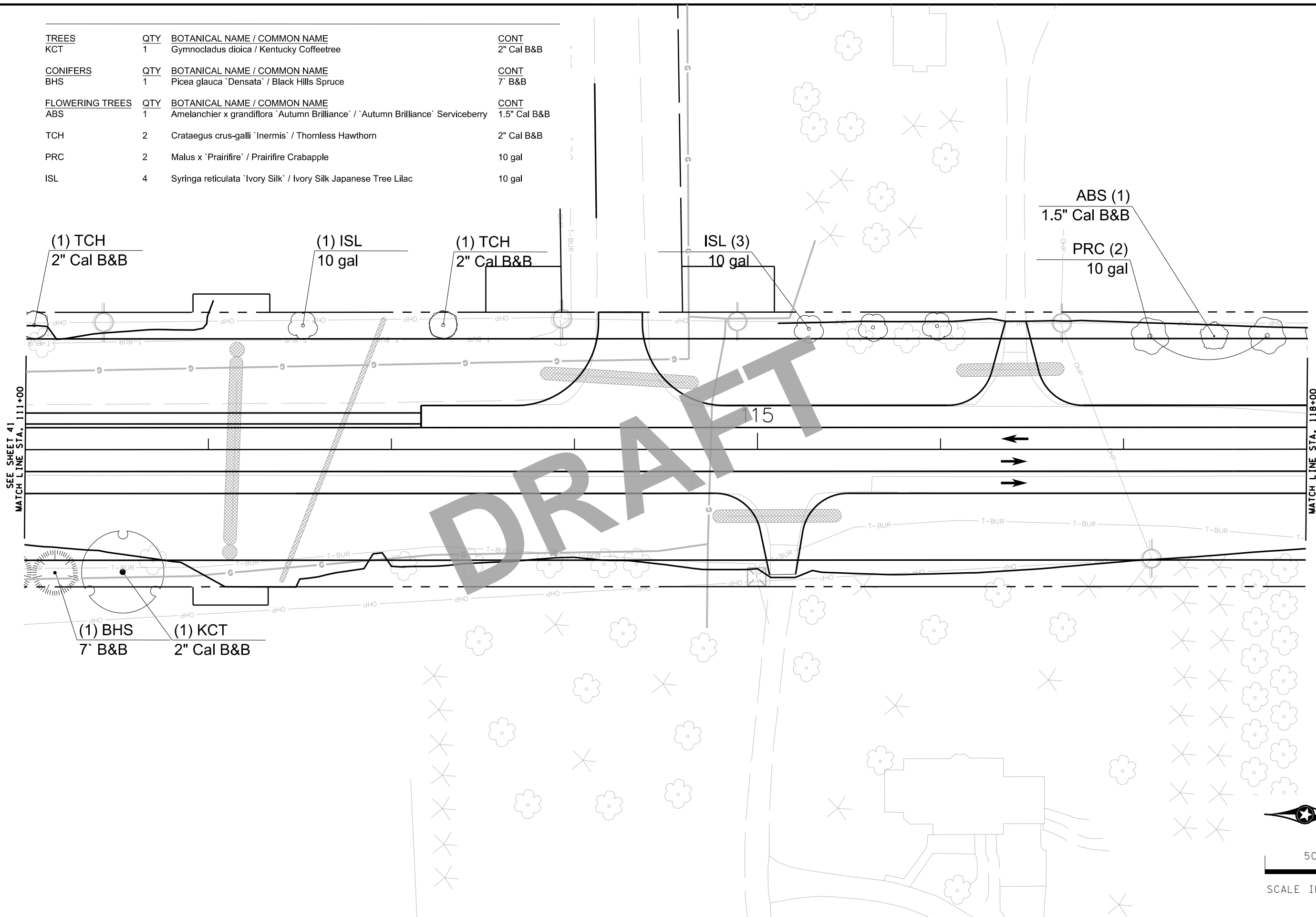
**MINNESOTA DEPARTMENT OF TRANSPORTATION**  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO



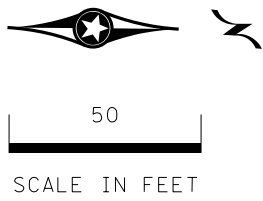
LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 41 of 133 Sheets

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
KCT	1	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	1	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	1	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
TCH	2	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
PRC	2	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
ISL	4	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal



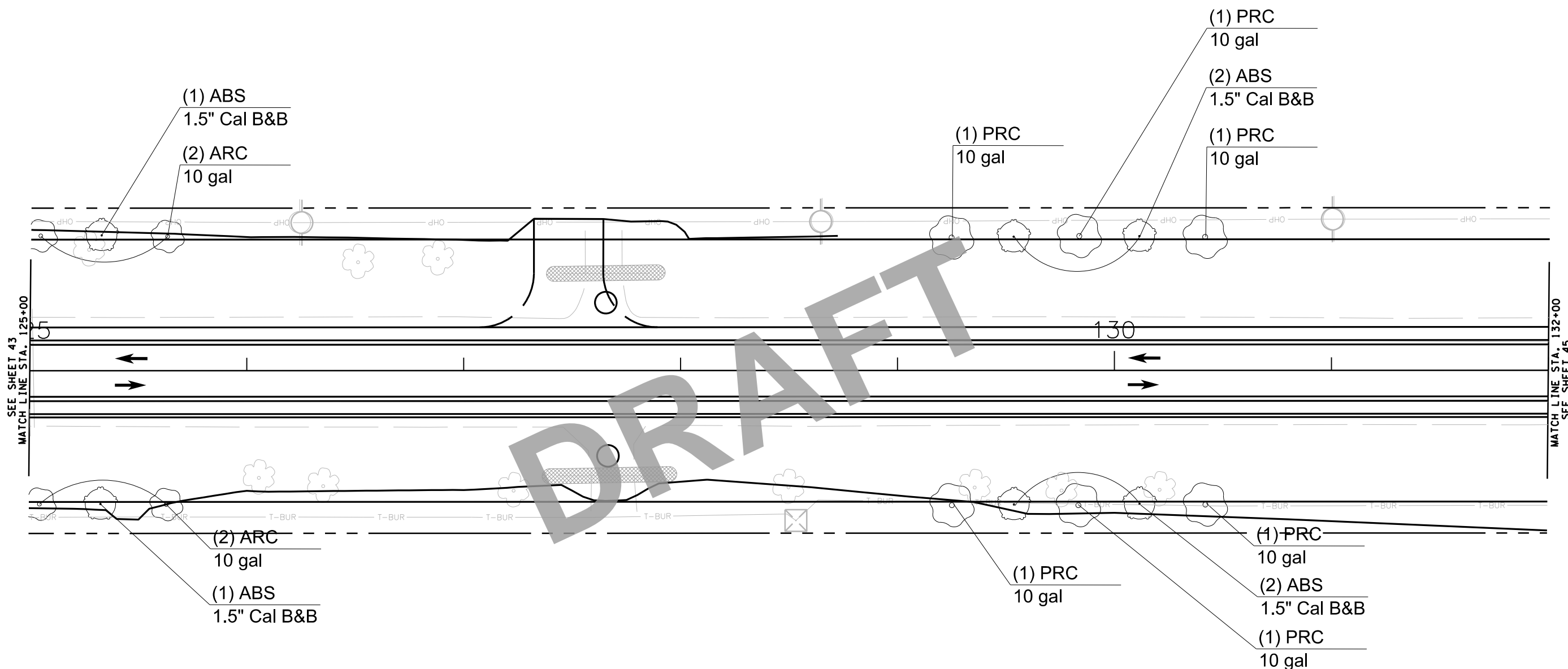
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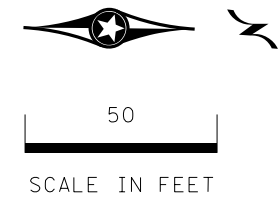




FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	6	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
ARC	4	Malus x 'Adirondack' / Adirondack Crabapple	10 gal
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal

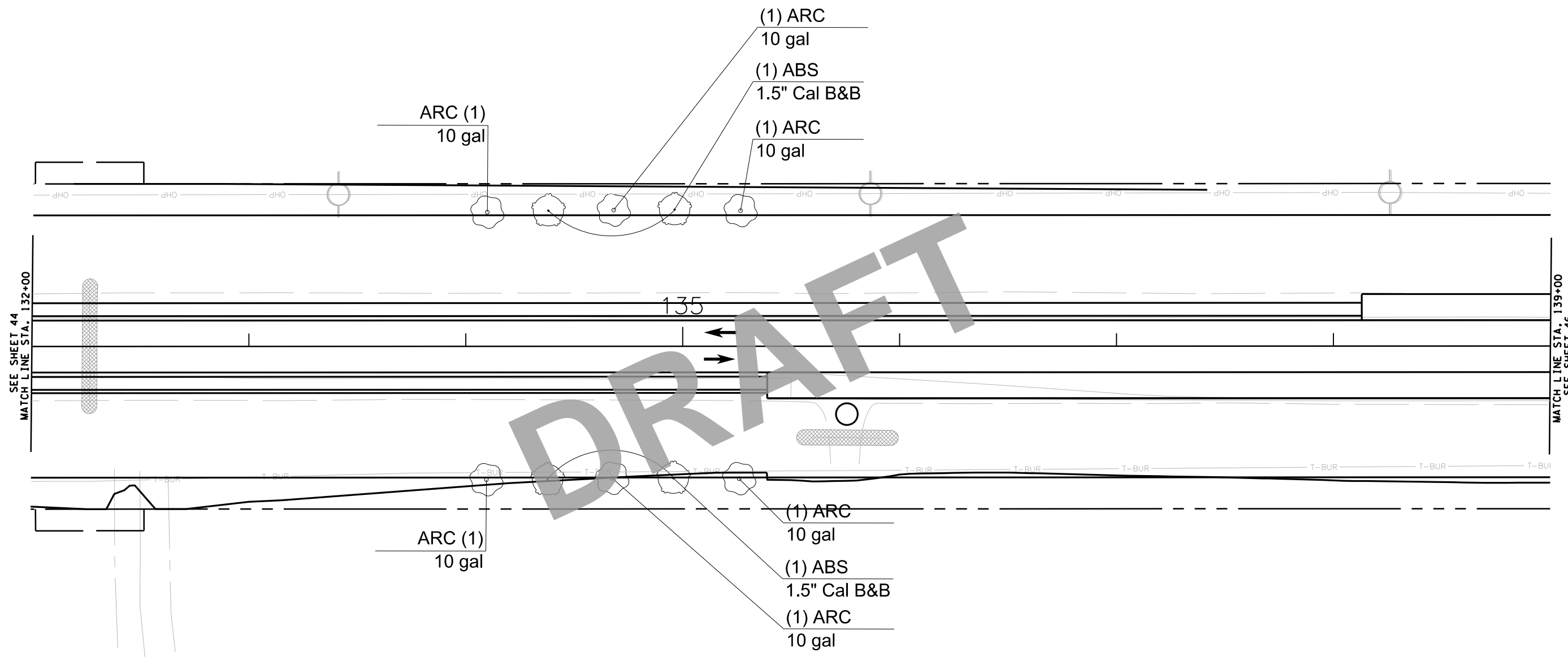


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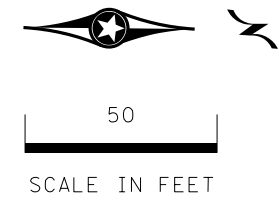




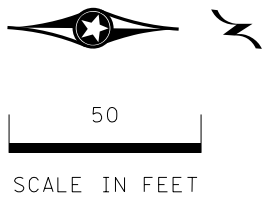
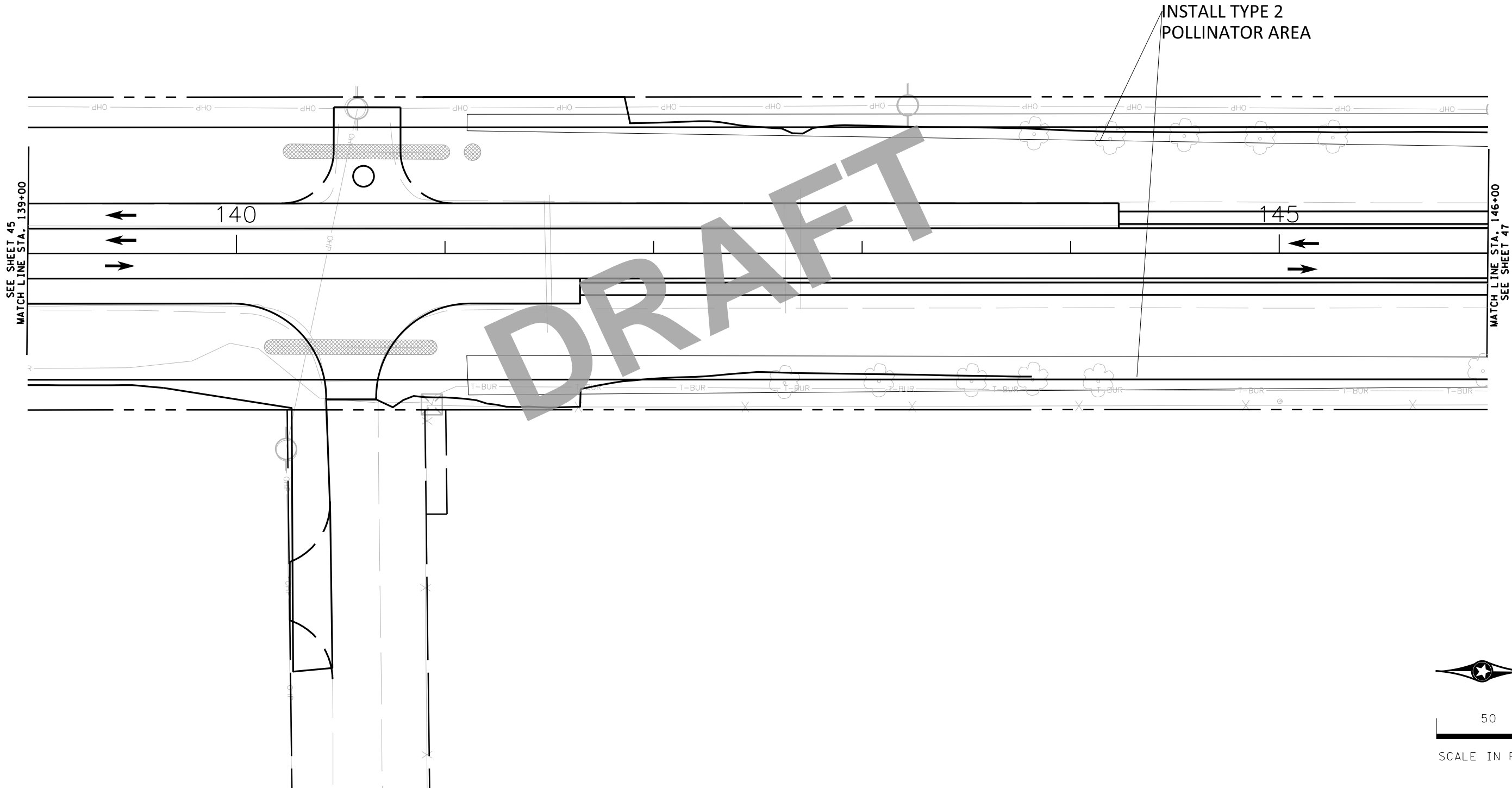
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	4	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry	1.5" Cal B&B
ARC	6	Malus x `Adirondack` / Adirondack Crabapple	10 gal



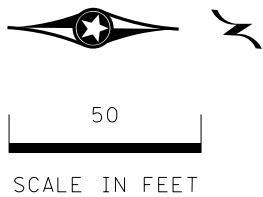
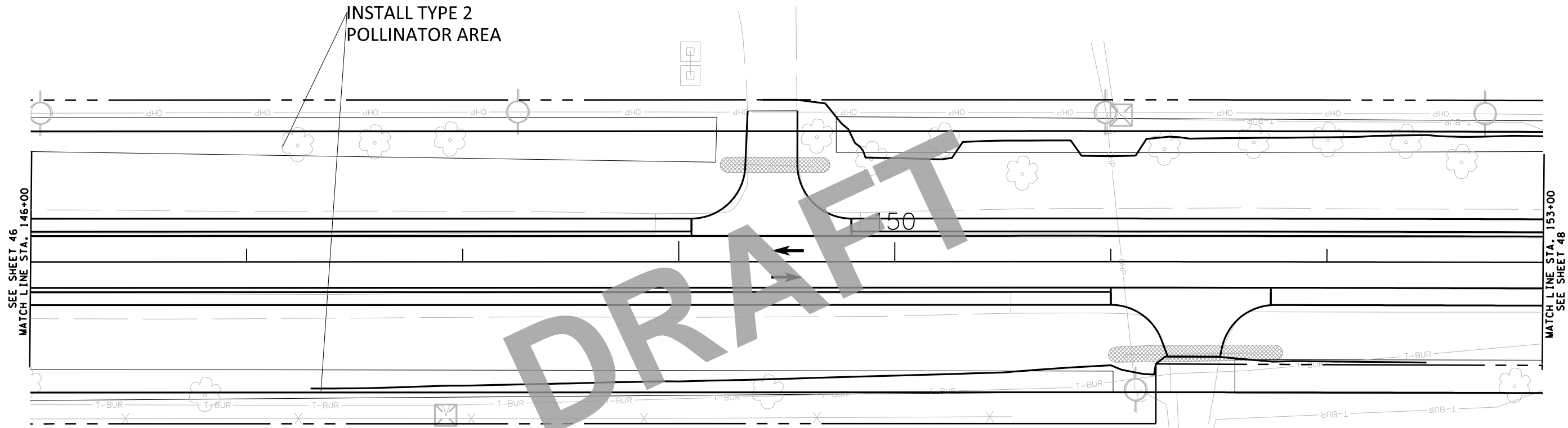
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SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



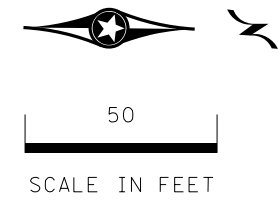
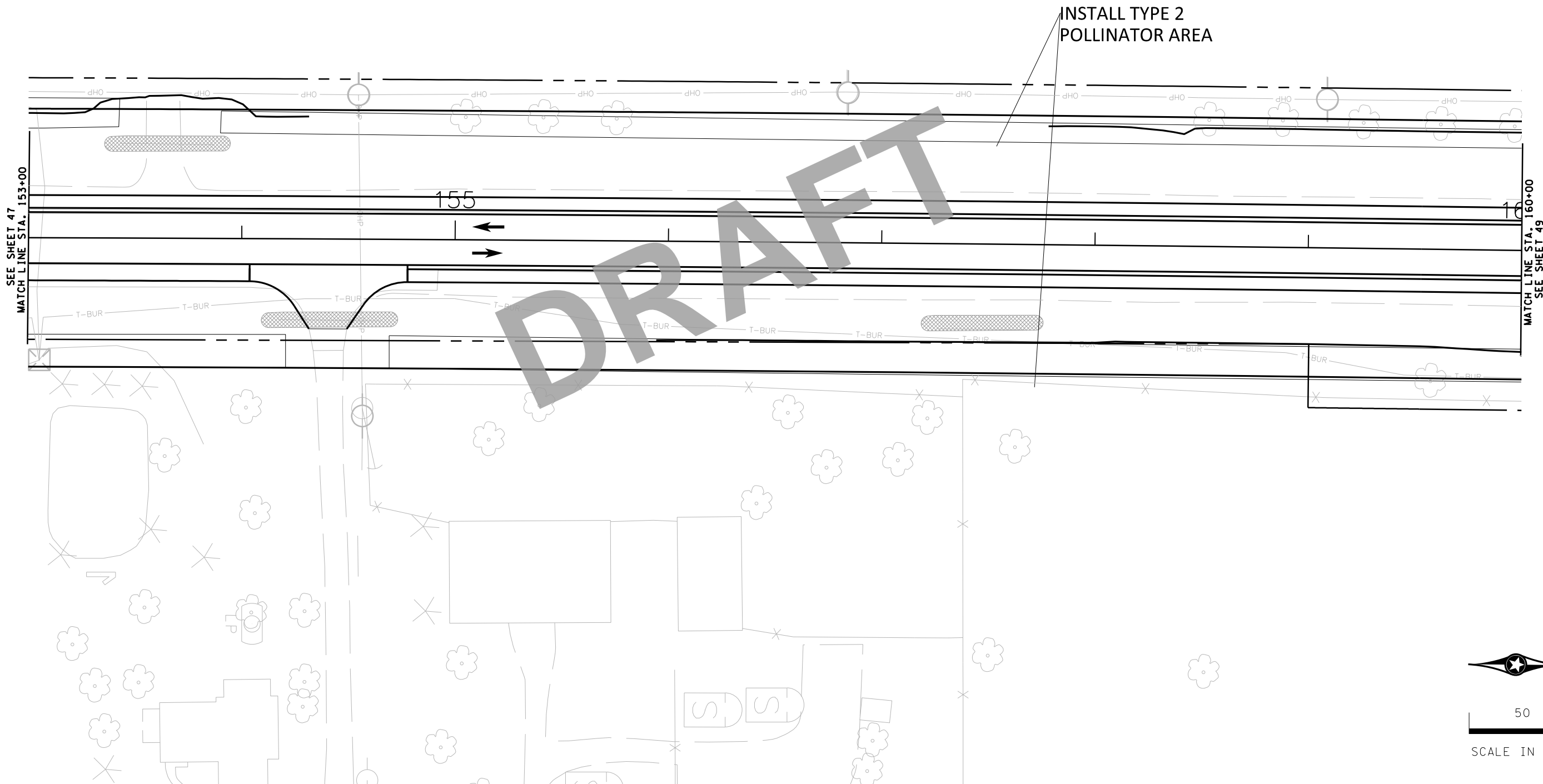
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TH 22 LANDSCAPING FROM THE  
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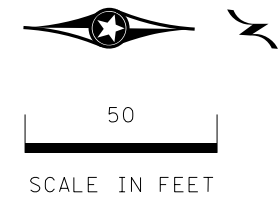
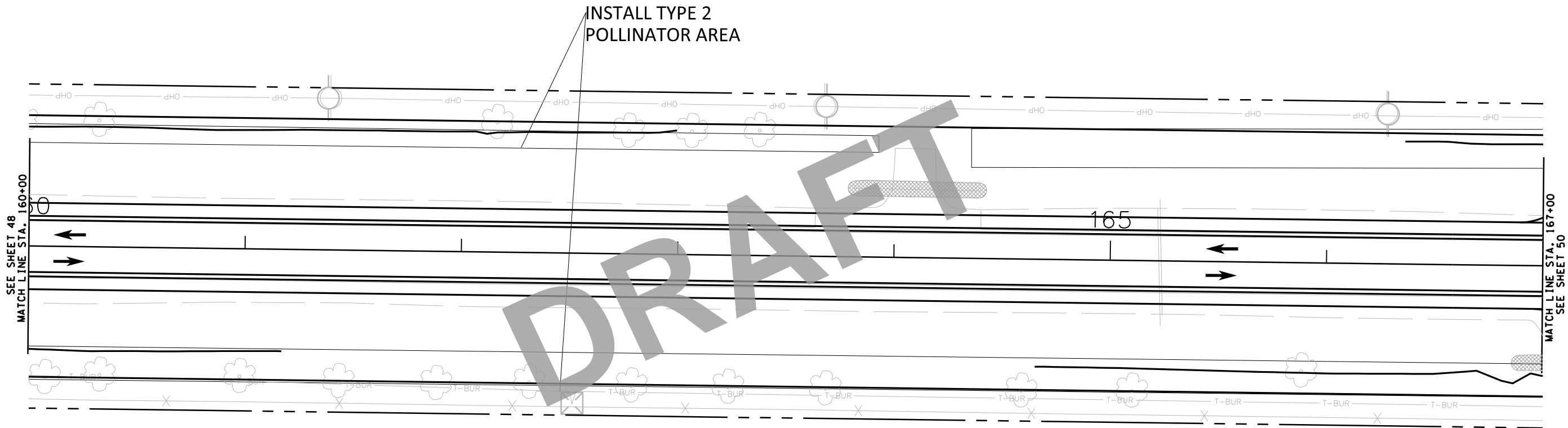
LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 47 of 133 Sheets

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<b>DESIGNED BY:</b> CCA		PRINTED NAME: CANDACE C. AMBERG
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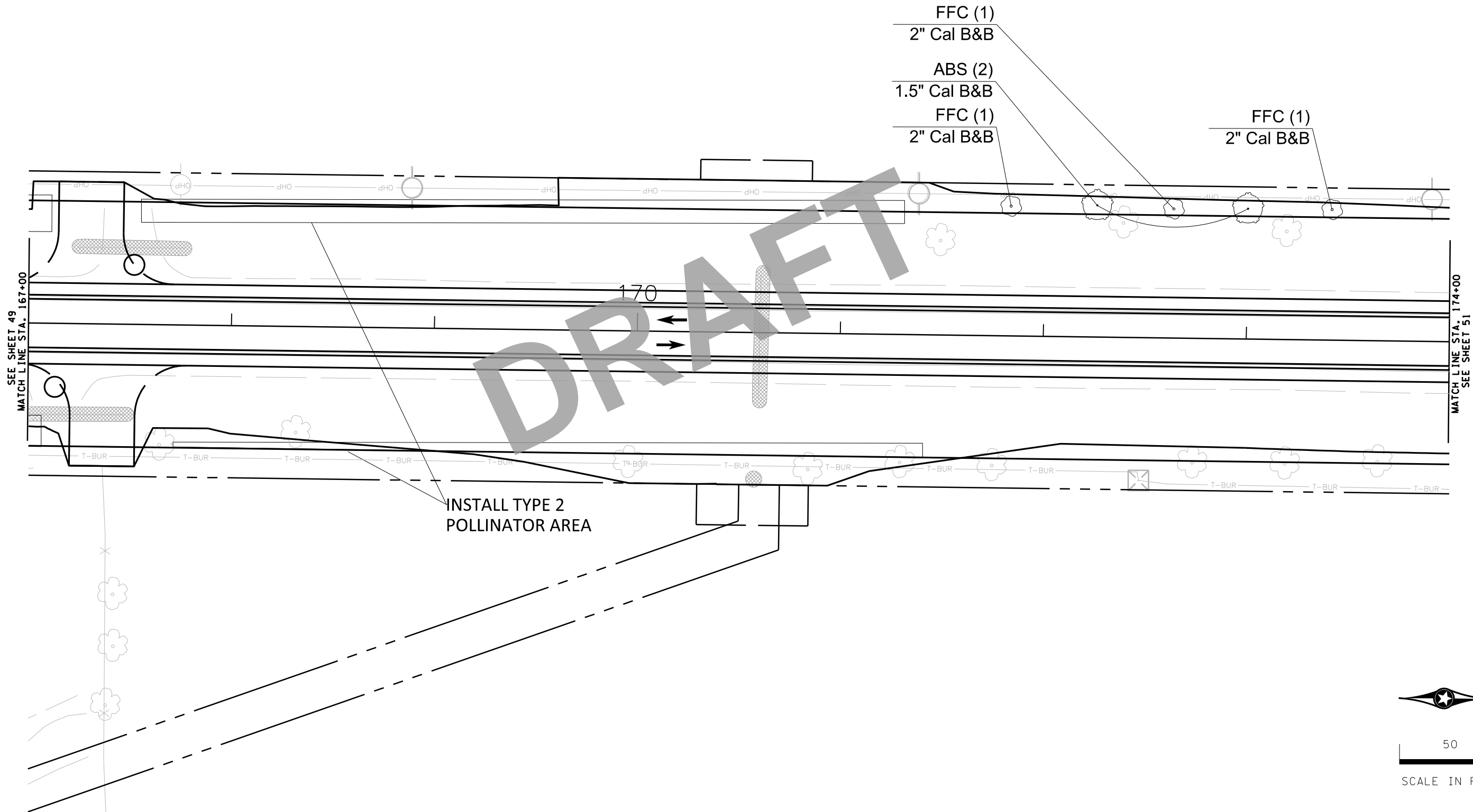
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LANDSCAPE PLAN

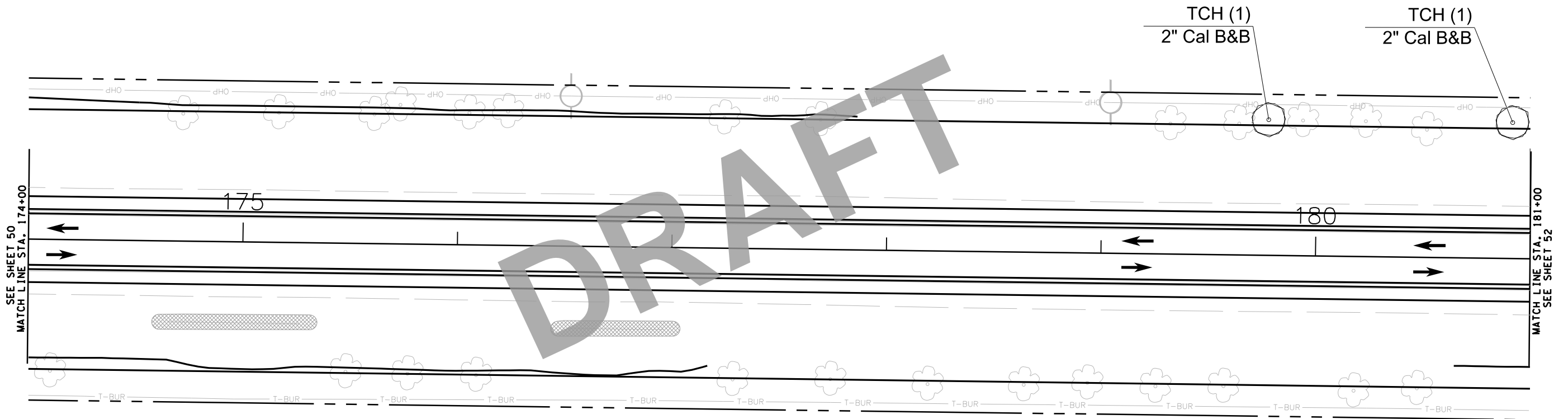
STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 49 of 133 Sheets

FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	2	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
FFC	3	Malus sargentii 'Select A' / Firebird Crabapple	2" Cal B&B

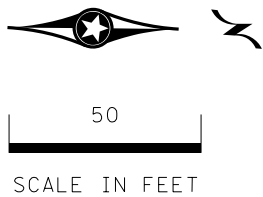


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FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	2	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B

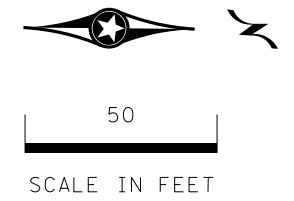
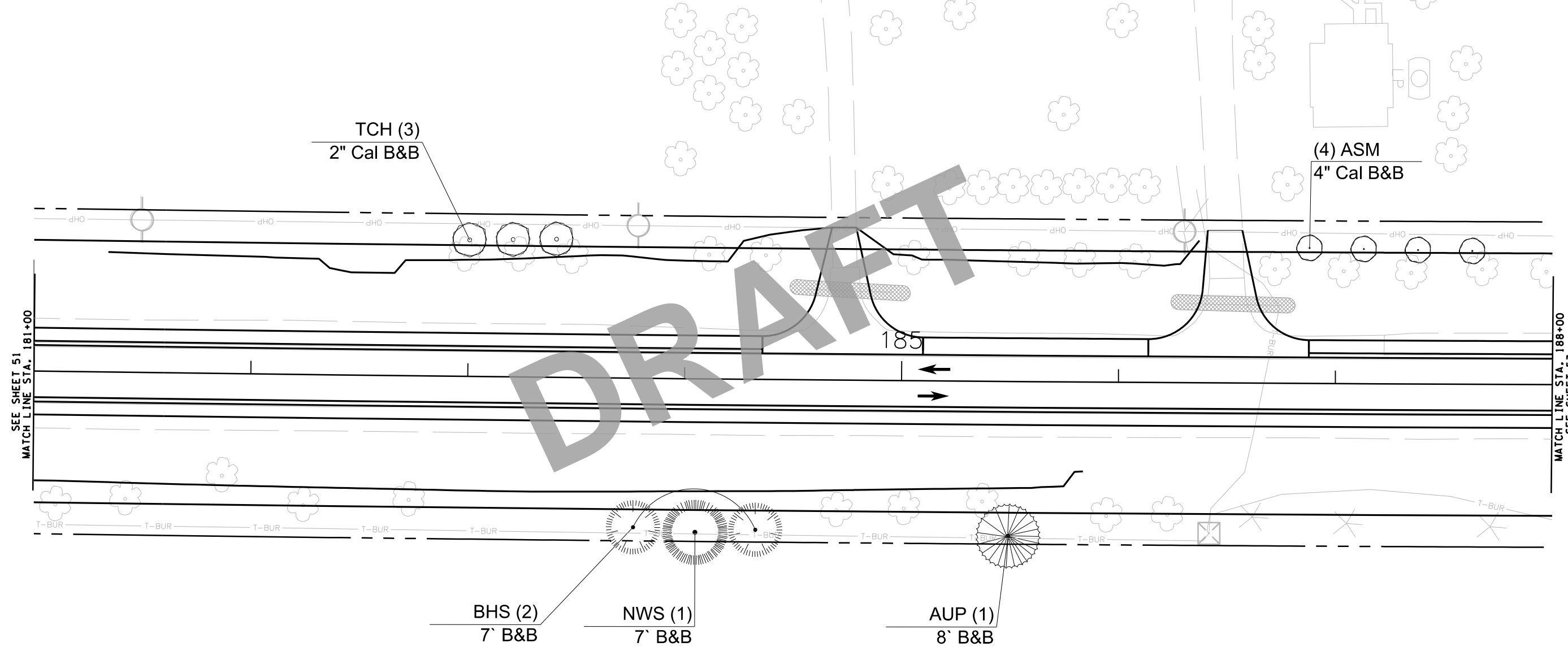


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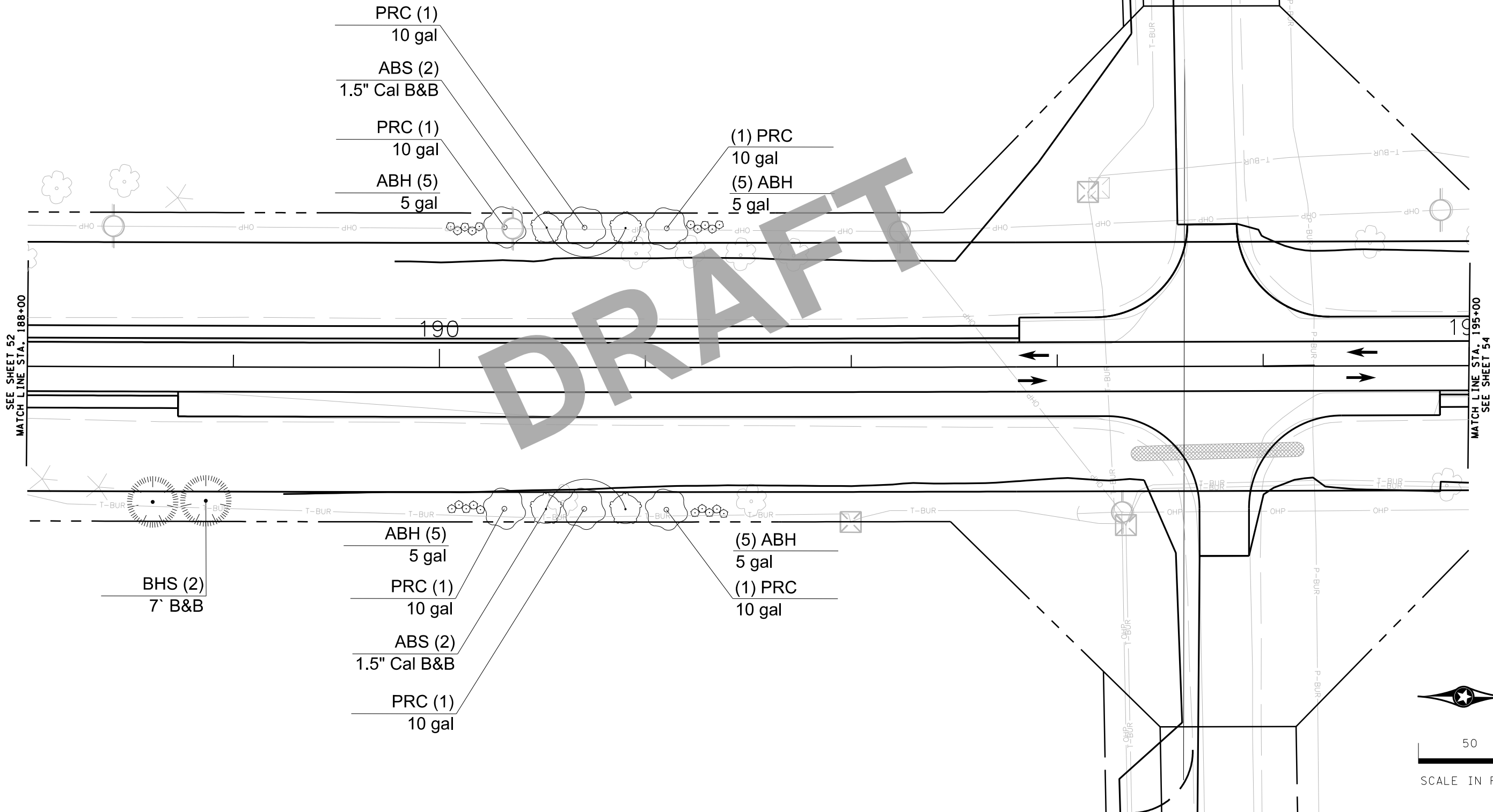
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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ASM	4	Acer x freemanii `Armstrong` / Armstrong Freeman Maple	4" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	1	Picea abies / Norway Spruce	7' B&B
BHS	2	Picea glauca `Densata` / Black Hills Spruce	7' B&B
AUP	1	Pinus nigra / Austrian Pine	8' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	3	Crataegus crus-galli `Inermis` / Thornless Hawthorn	2" Cal B&B





CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	2	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	4	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
ABH	20	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal

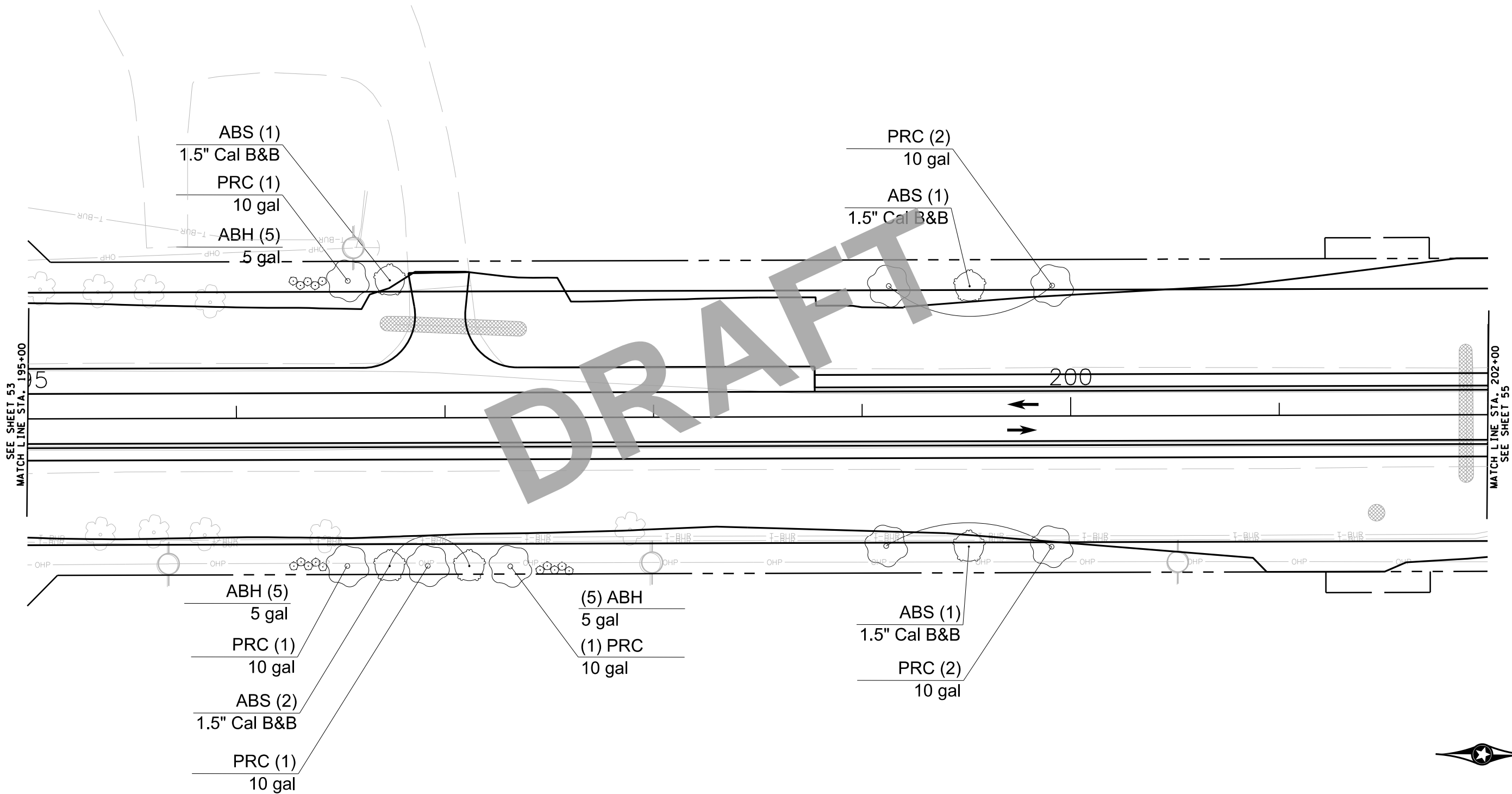


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FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	5	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry	1.5" Cal B&B
PRC	8	Malus x `Prairifire` / Prairifire Crabapple	10 gal

SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
ABH	15	Hydrangea arborescens `Annabelle` / Annabelle Smooth Hydrangea	5 gal



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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
SIM	1	Acer x freemanii `Sienna` / Sienna Glen Maple	2" Cal B&B
OHB	2	Aesculus glabra / Ohio Buckeye	1.75" Cal B&B
KCT	1	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
ERC	2	Juniperus virginiana / Eastern Red Cedar	6' B&B
BHS	6	Picea glauca `Densata` / Black Hills Spruce	7' B&B

OHB (1)  
1.75" Cal B&B

BHS (3) KCT (1)  
7' B&B 2" Cal B&B

BHS (3) OHB (1)  
7' B&B 1.75" Cal B&B

(1) SIM  
2" Cal B&B

ERC (2)  
6' B&B

SEE SHEET 54  
MATCH LINE STA. 202+00

MATCH LINE STA. 209+00  
SEE SHEET 56

DATE: 7/28/2017 TIME: 9:31:21 AM  
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50

SCALE IN FEET

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PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



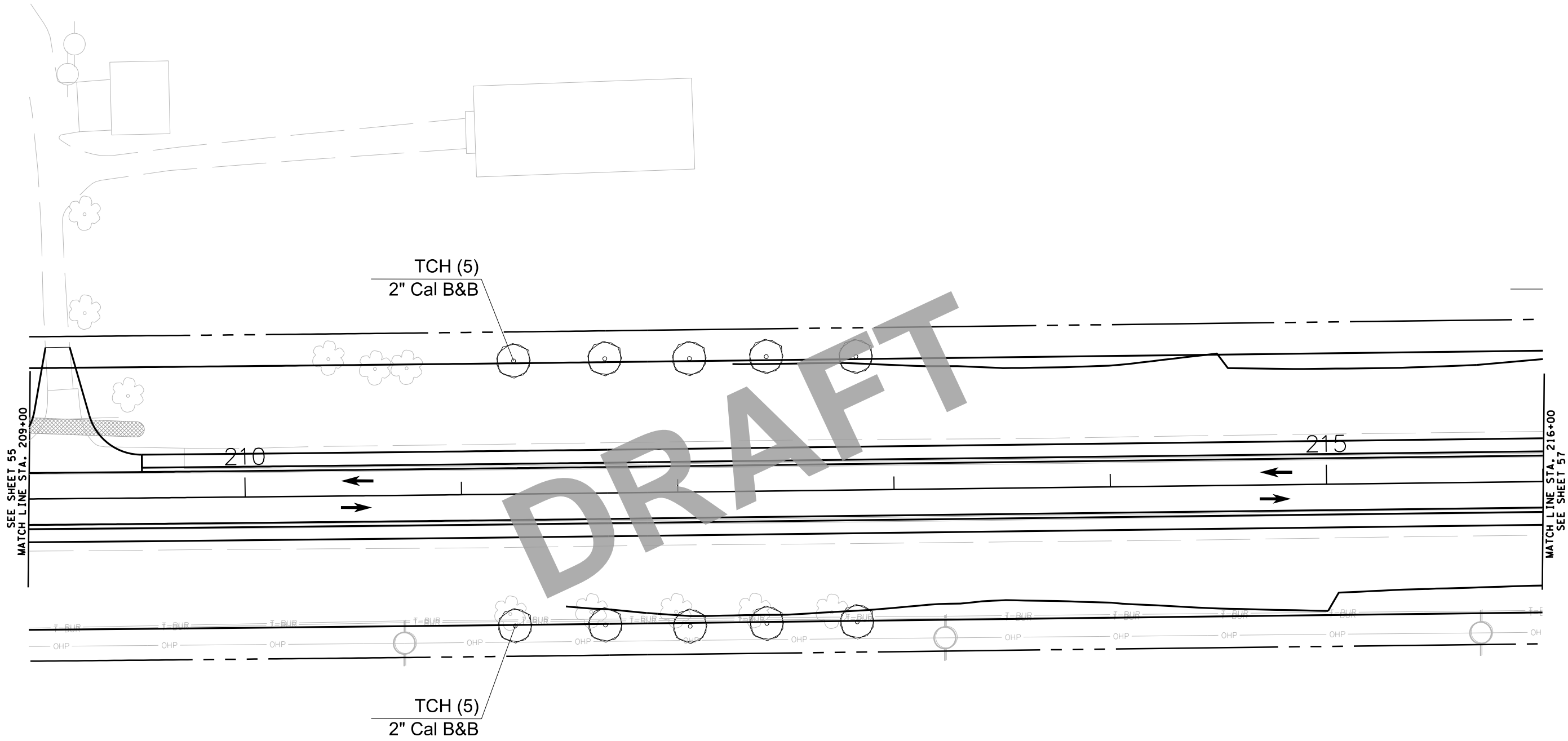
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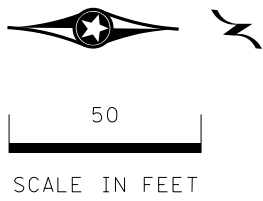
LANDSCAPE PLAN

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FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	10	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B

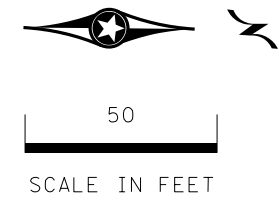
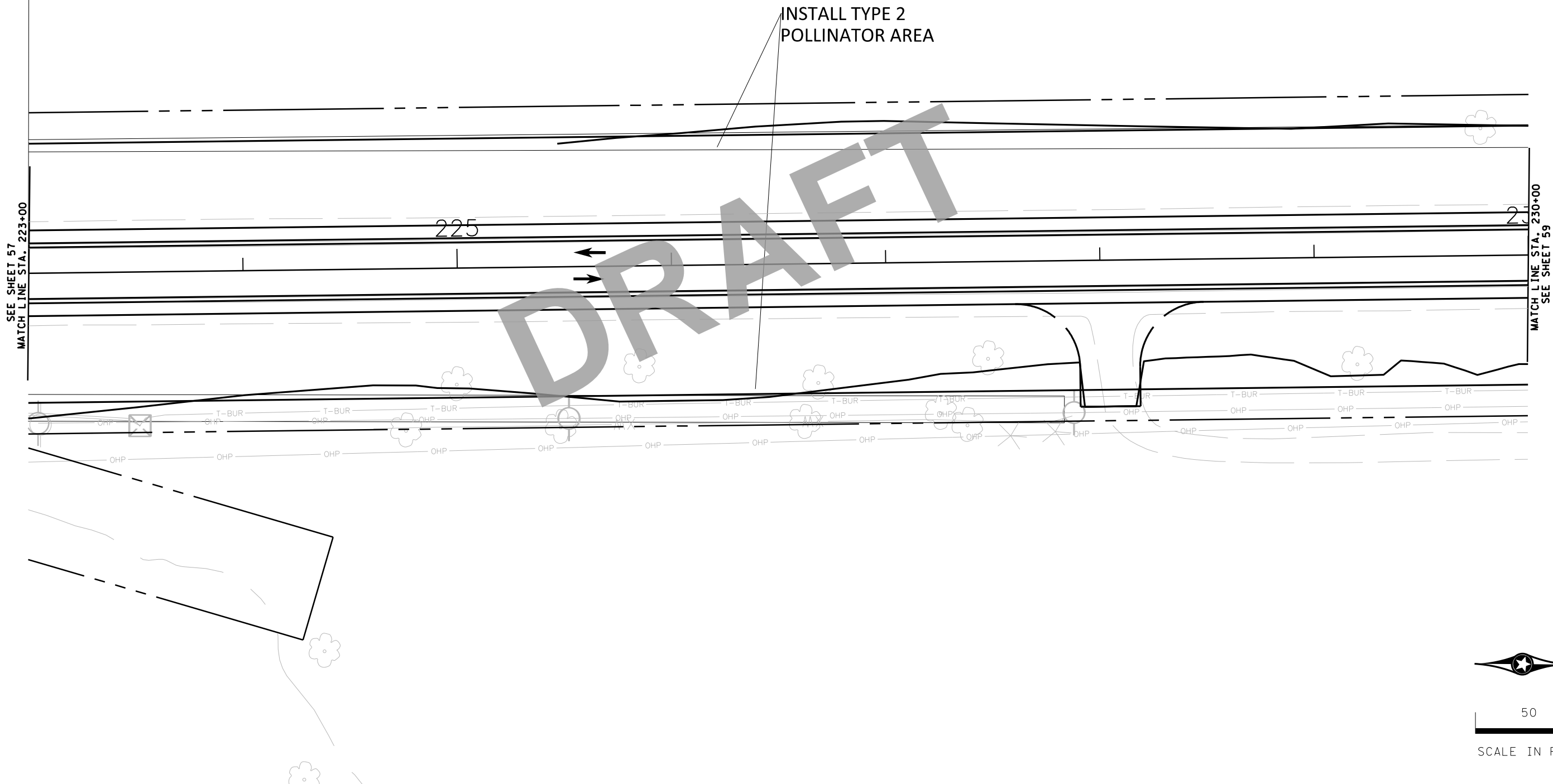


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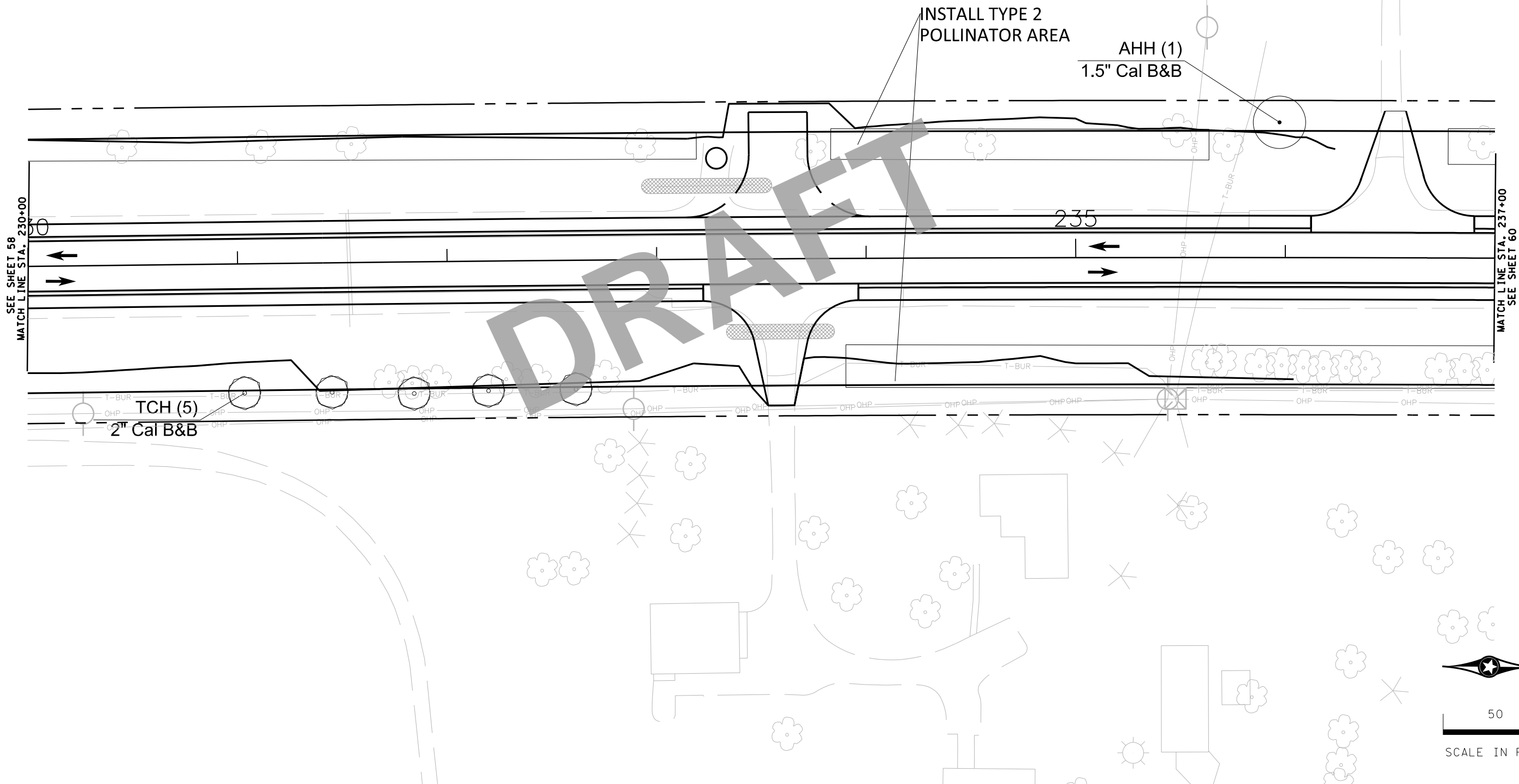




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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	5	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B

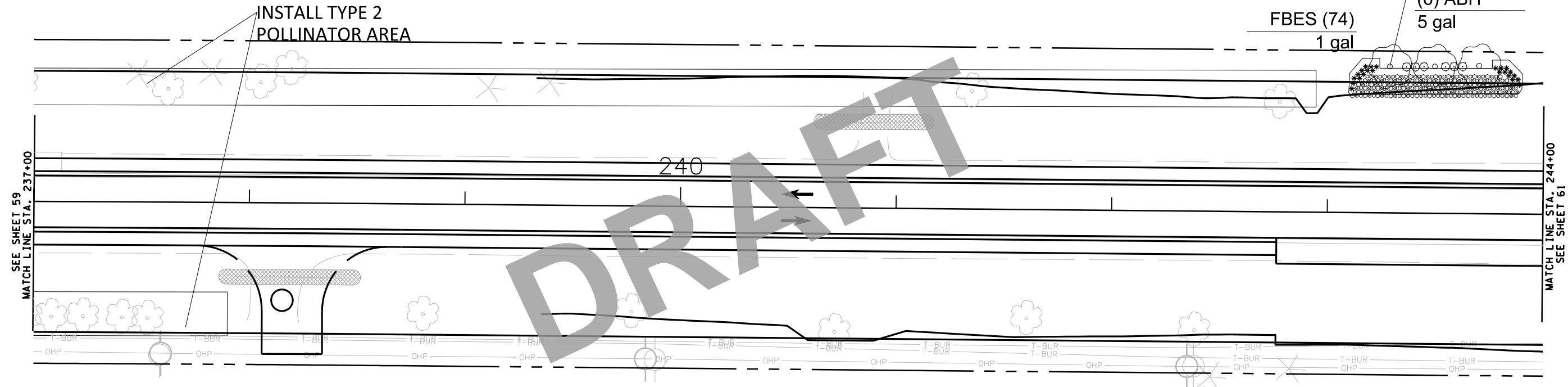


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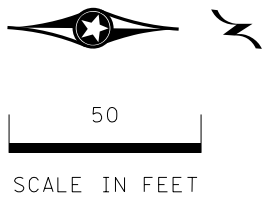
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
PRC	3	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
CFRG	23	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	1 gal
ABH	6	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal
NATIVE SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
FPPC	73	Echinacea purpurea / Purple Coneflower	1 gal
FSHD	72	Leucanthemum x superbum / Shasta Daisy	1 gal
FBES	74	Rudbeckia amplexicaulis / Black-eyed Susan	1 gal

FPPC (73)	1 gal
CFRG (23)	1 gal
FSHD (72)	1 gal
FBES (74)	1 gal
(3) PRC	10 gal
(6) ABH	5 gal



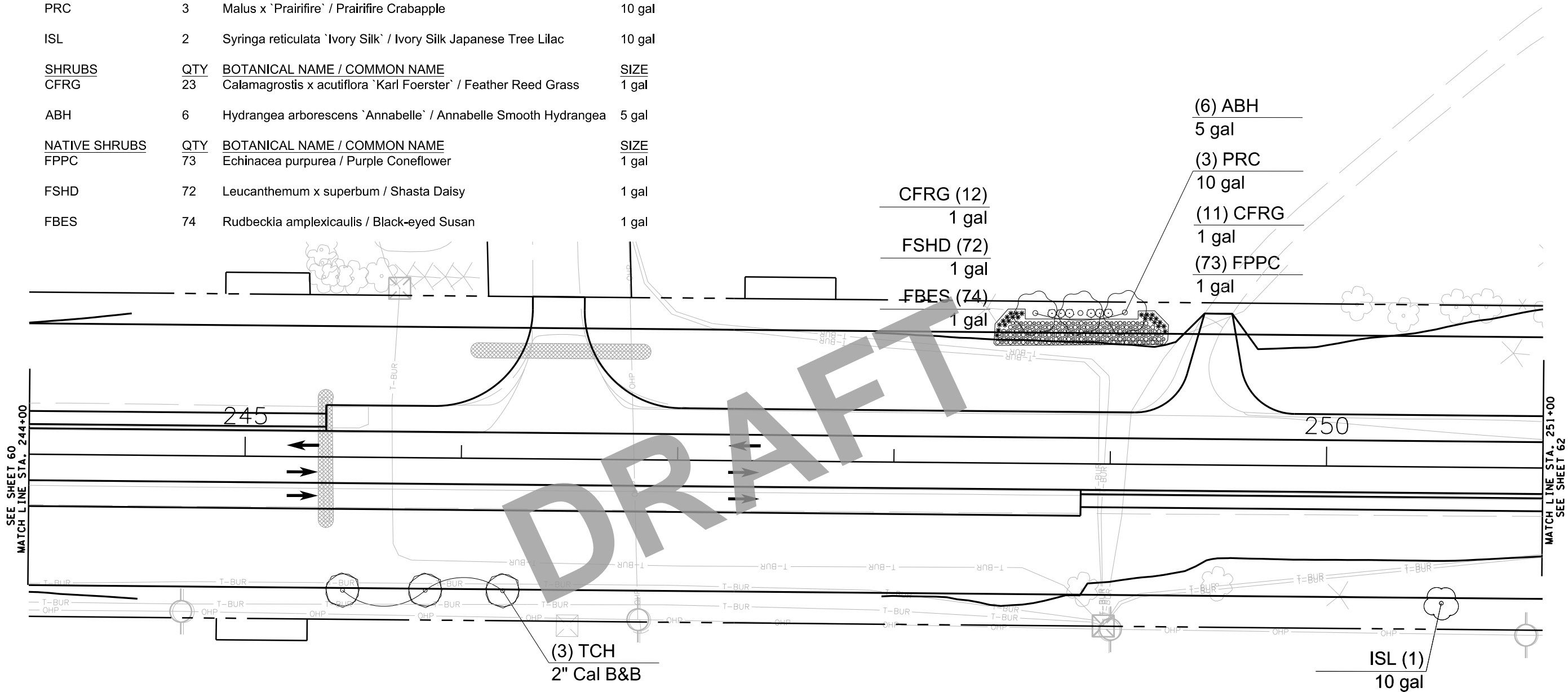
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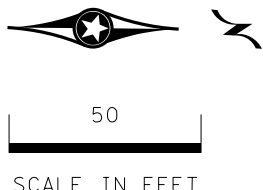




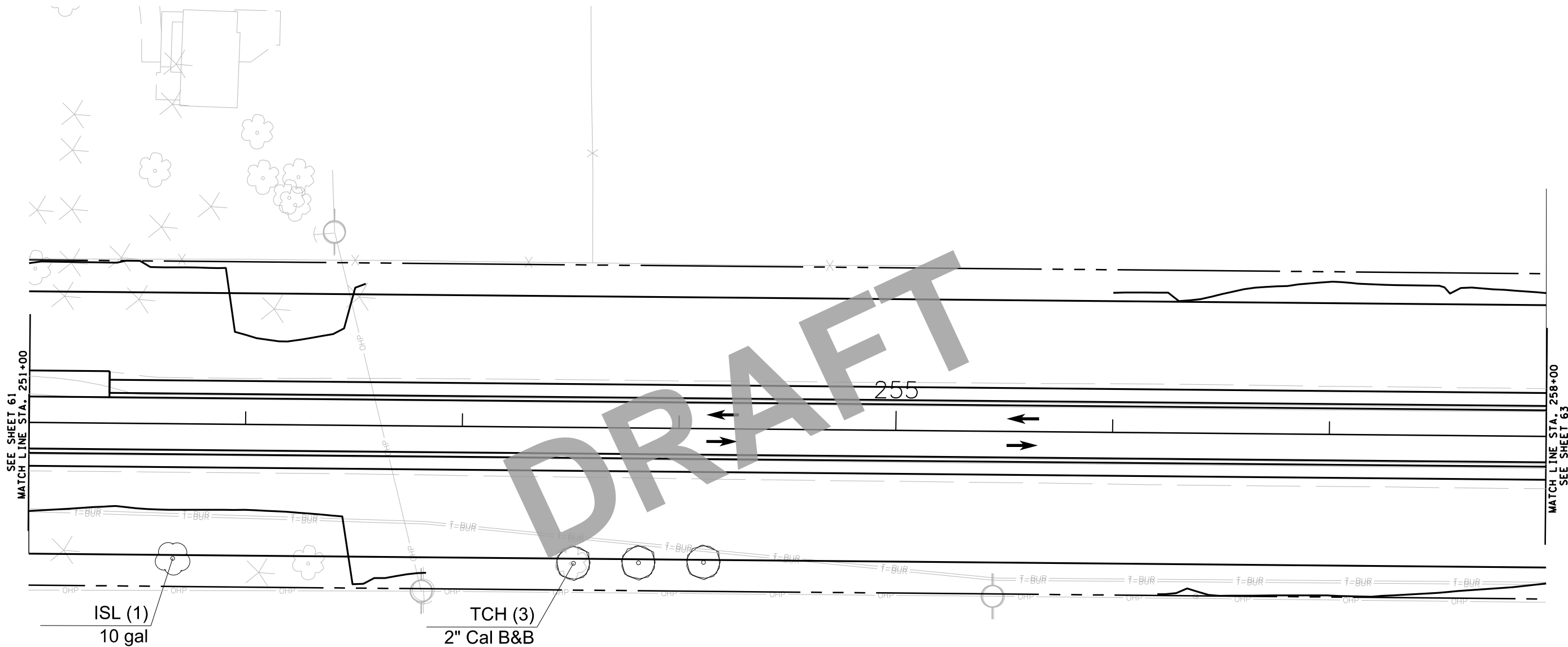
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	3	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
PRC	3	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
ISL	2	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
CFRG	23	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	1 gal
ABH	6	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal
NATIVE SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
FPPC	73	Echinacea purpurea / Purple Coneflower	1 gal
FSHD	72	Leucanthemum x superbum / Shasta Daisy	1 gal
FBES	74	Rudbeckia amplexicaulis / Black-eyed Susan	1 gal



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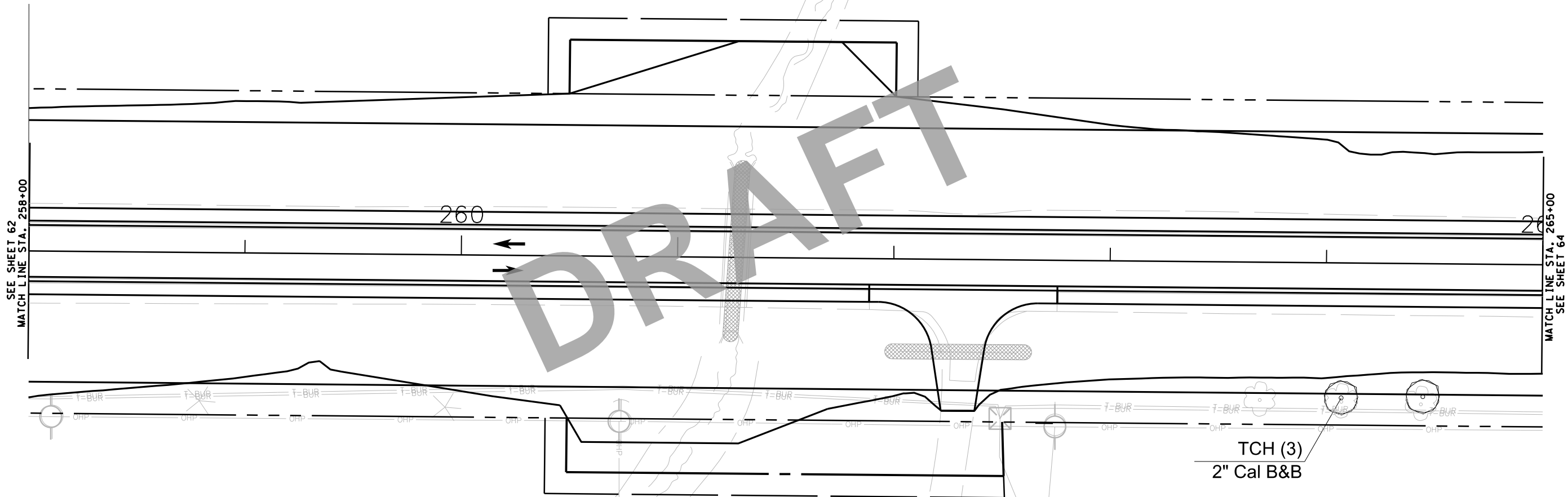


FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	3	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
ISL	1	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal

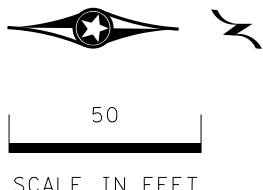


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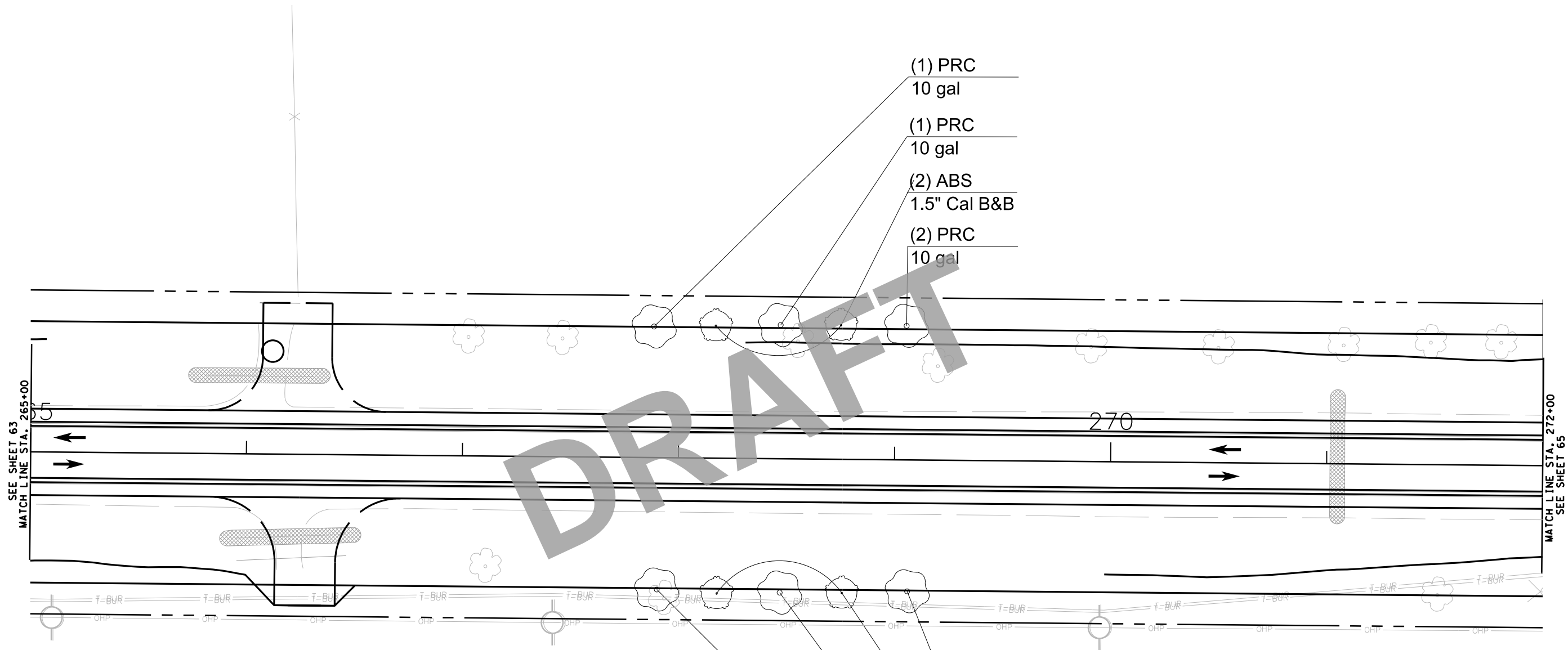
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	2	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B



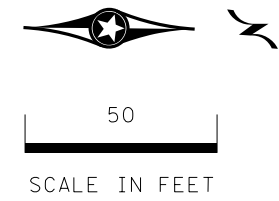
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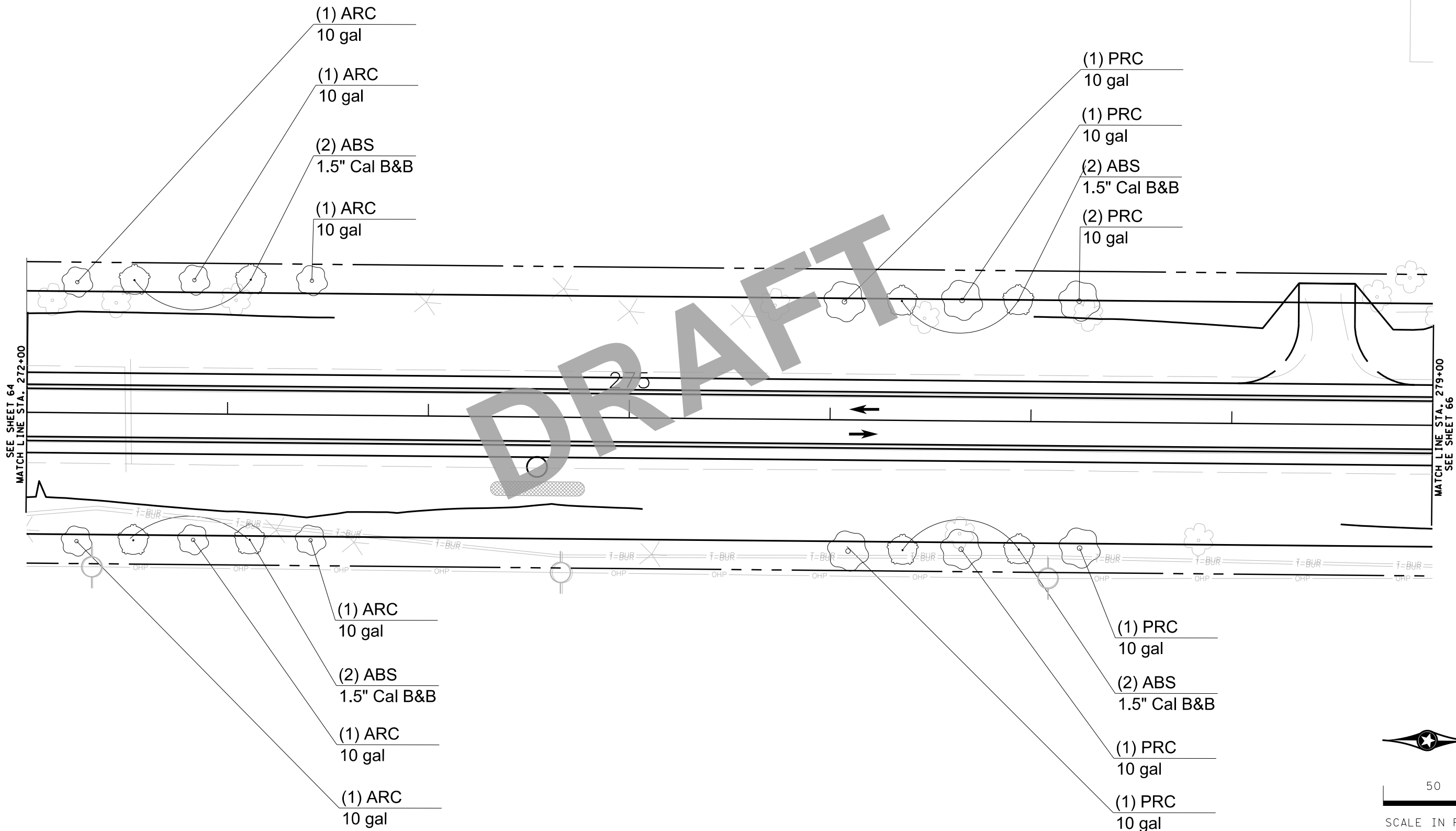
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	4	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal



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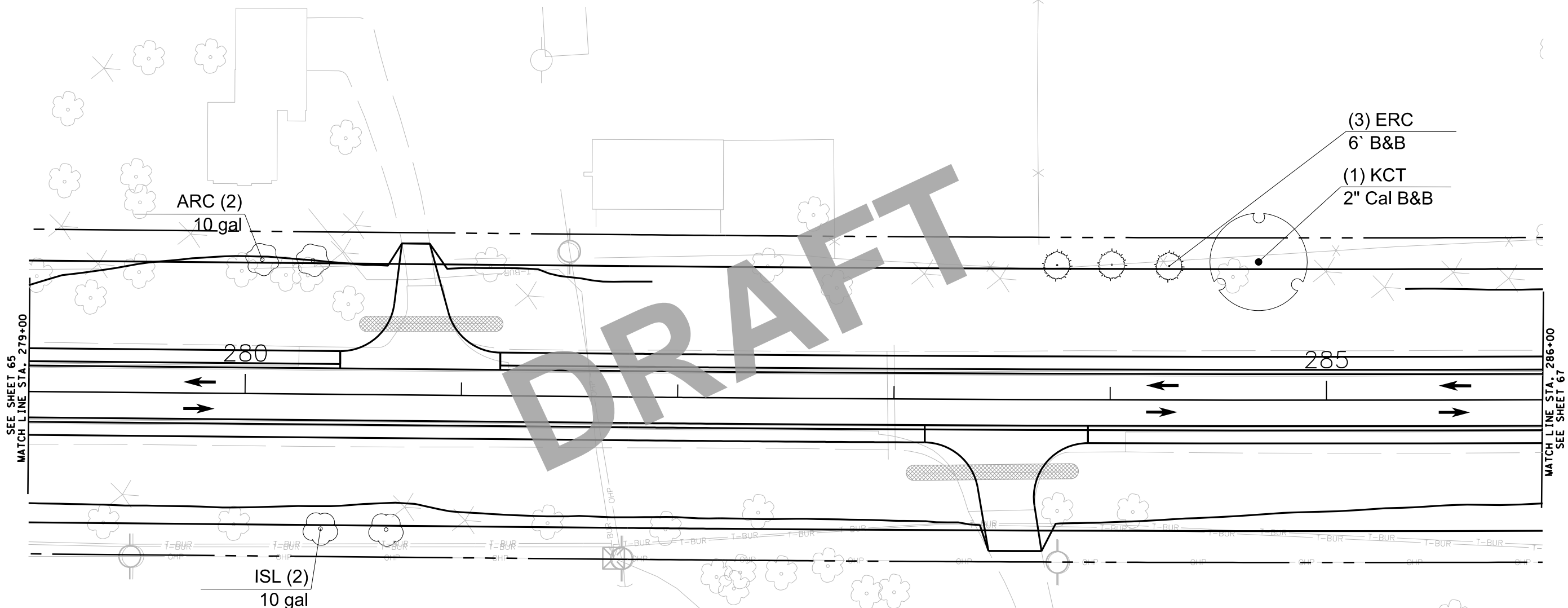


FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	8	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
ARC	6	Malus x 'Adirondack' / Adirondack Crabapple	10 gal
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal

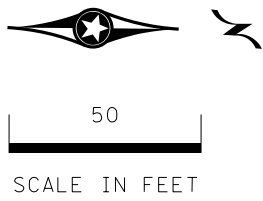


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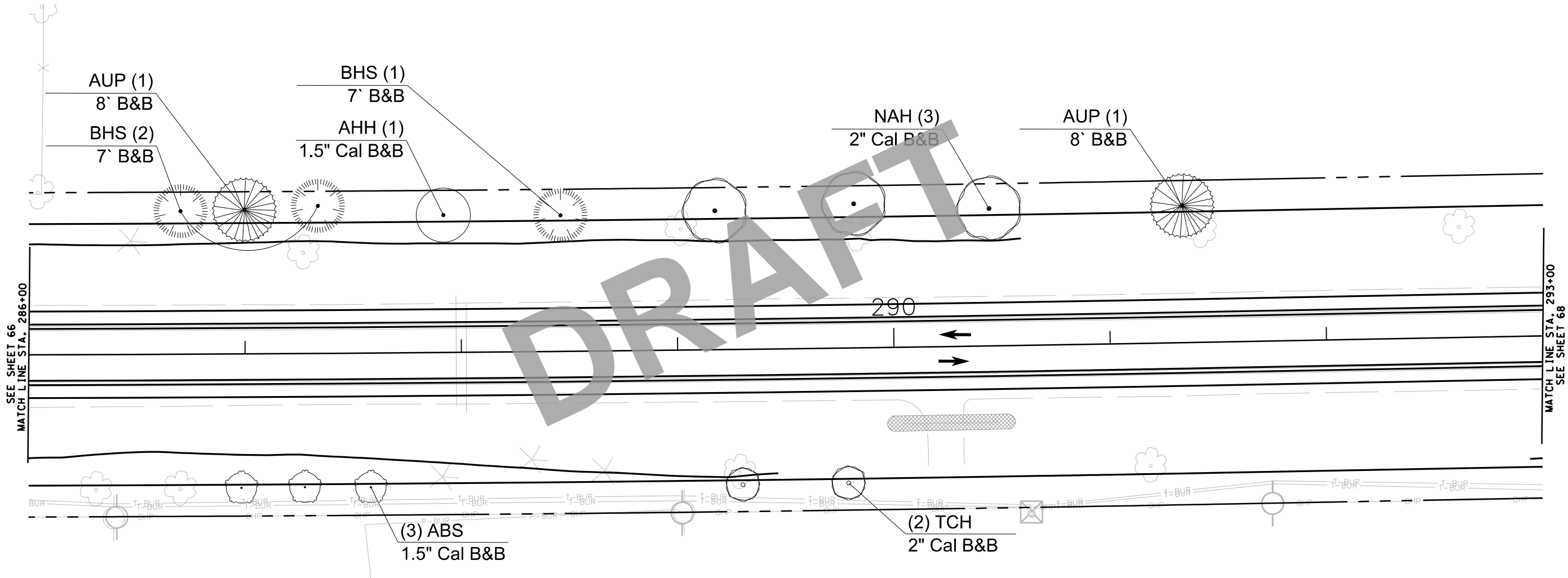
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
KCT	1	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
ERC	3	Juniperus virginiana / Eastern Red Cedar	6' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ARC	2	Malus x `Adirondack` / Adirondack Crabapple	10 gal
ISL	2	Syringa reticulata `Ivory Silk` / Ivory Silk Japanese Tree Lilac	10 gal



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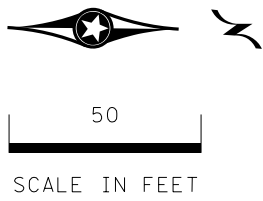
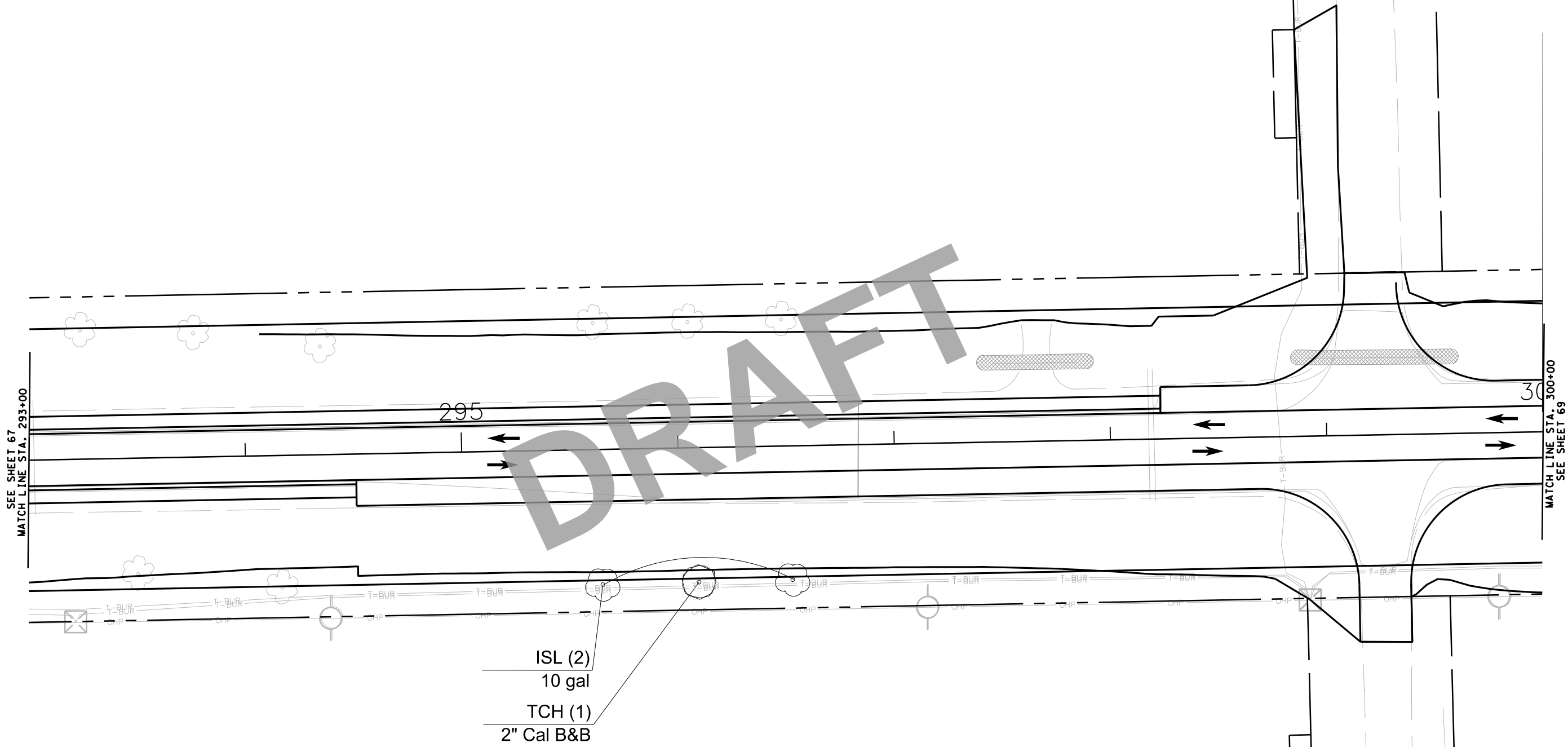
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
NAH	3	Gleditsia triacanthos inermis `Harve` TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	3	Picea glauca `Densata` / Black Hills Spruce	7' B&B
AUP	2	Pinus nigra / Austrian Pine	8' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	3	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry	1.5" Cal B&B
TCH	2	Crataegus crus-galli `Inermis` / Thornless Hawthorn	2" Cal B&B



DATE: 7/28/2017 TIME: 9:31:40 AM  
 FILENAME: K:\03265-010\Cad\Plan\cd704100\_in029.dgn



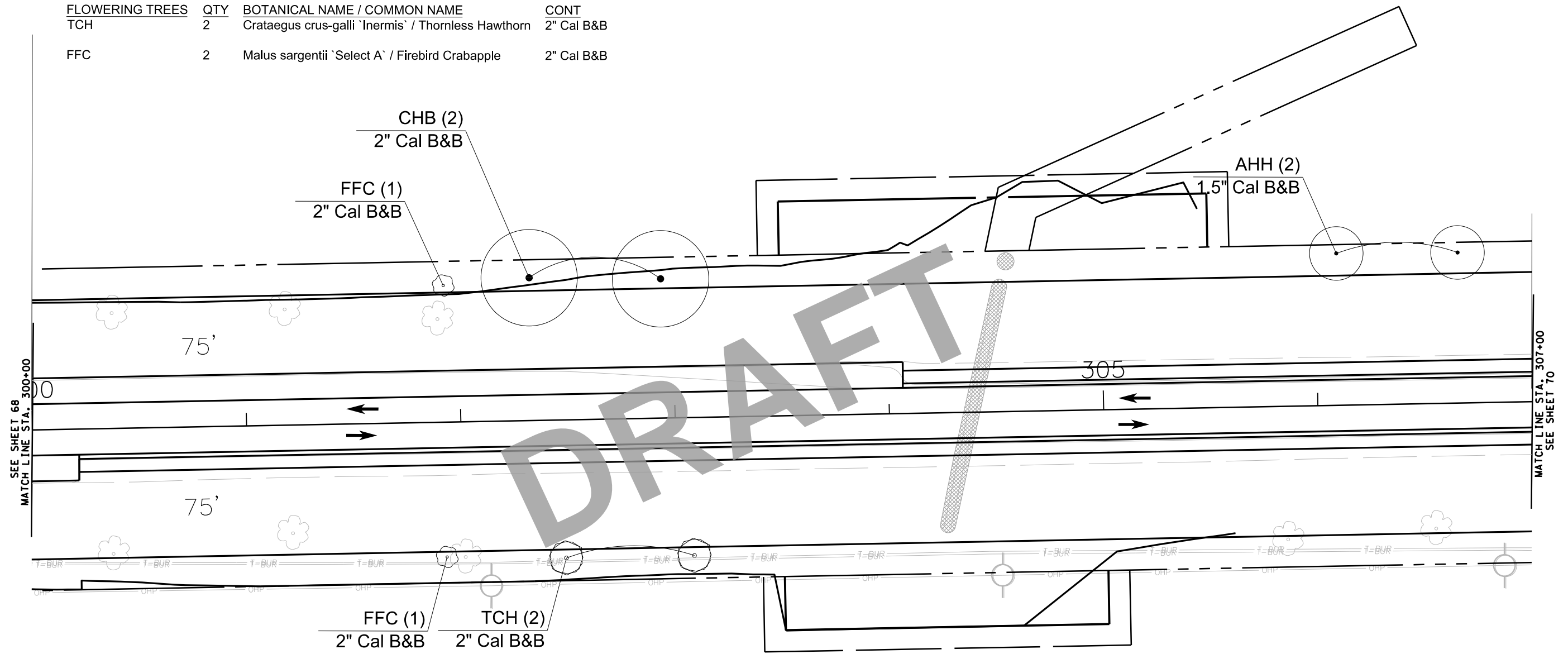
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	1	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
ISL	2	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal



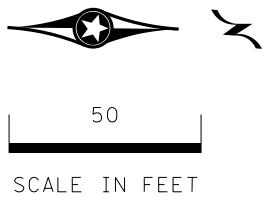
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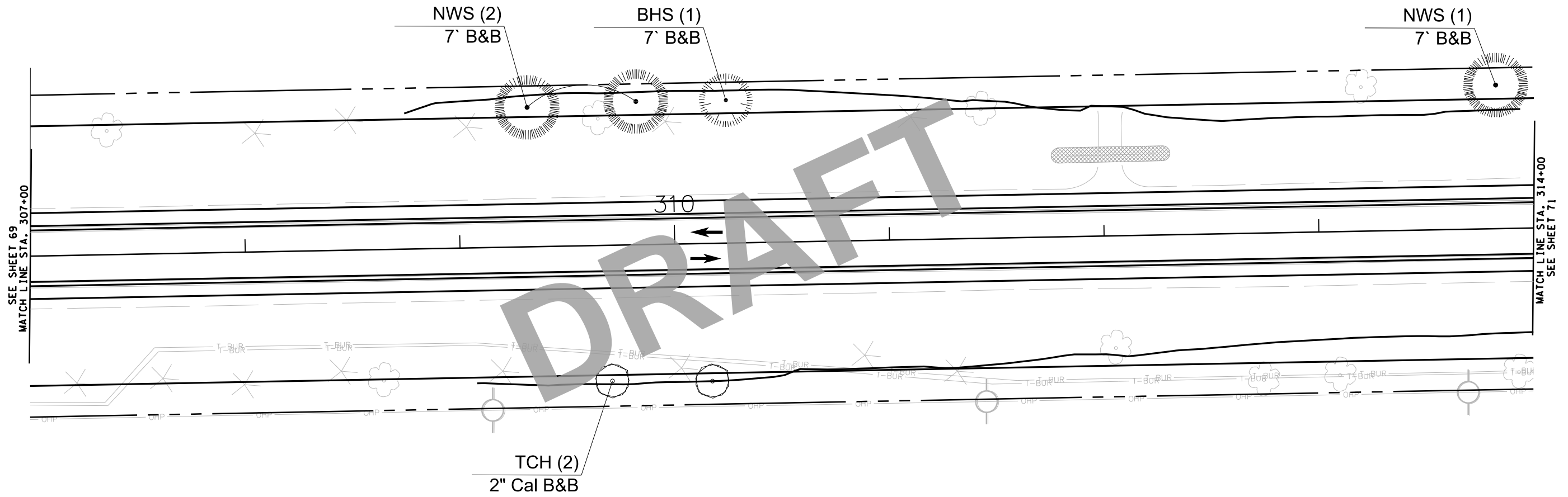
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
CHB	2	<i>Celtis occidentalis</i> / Common Hackberry	2" Cal B&B
AHH	2	<i>Ostrya virginiana</i> / American Hophornbeam	1.5" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	2	<i>Crataegus crus-galli</i> 'Inermis' / Thornless Hawthorn	2" Cal B&B
FFC	2	<i>Malus sargentii</i> 'Select A' / Firebird Crabapple	2" Cal B&B



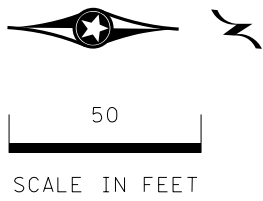
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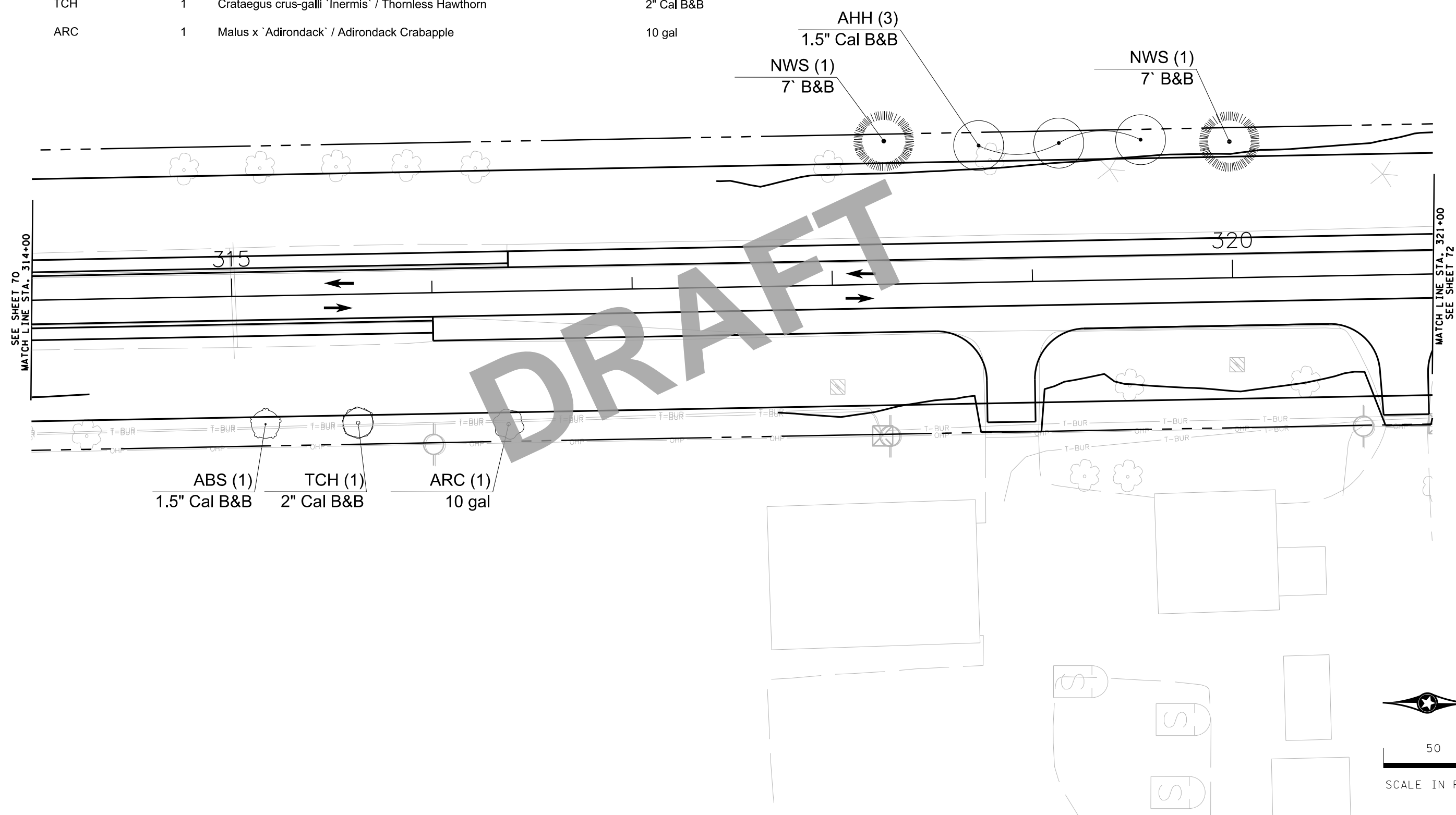
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	3	Picea abies / Norway Spruce	7' B&B
BHS	1	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	2	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B



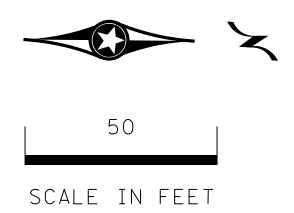
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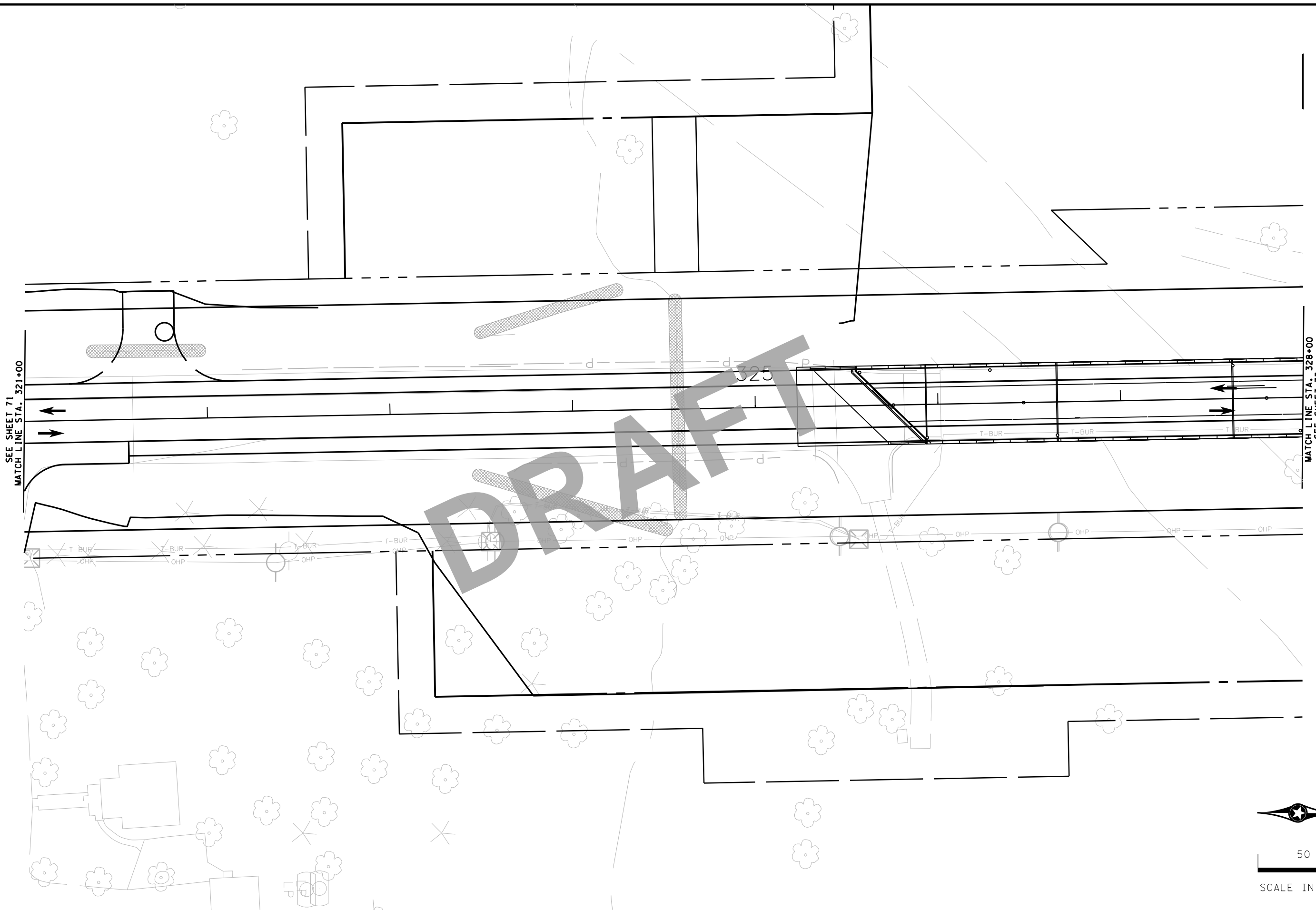
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AHH	3	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	2	Picea abies / Norway Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	1	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
TCH	1	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
ARC	1	Malus x 'Adirondack' / Adirondack Crabapple	10 gal



DATE: 7/28/2017 TIME: 9:31:45 AM  
 FILENAME: K:\03265-010\Cad\Plan\cd704100\_1n033.dgn



DATE: 7/28/2017 TIME: 9:31:46 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_1n034.dgn



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<b>DESIGNED BY:</b> CCA		PRINTED NAME: CANDACE C. AMBERG
<b>CHECKED BY:</b> CCA		DATE: 7/28/2017 LIC. NO. 40646


**MINNESOTA DEPARTMENT OF TRANSPORTATION**  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO



LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 72 of 133 Sheets

CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	2	Picea glauca 'Densata' / Black Hills Spruce	7' B&B

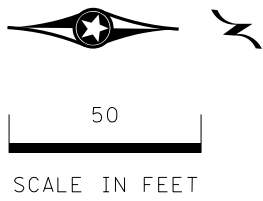
SEE SHEET 72  
MATCH LINE STA. 328+00

MATCH LINE STA. 335+00  
SEE SHEET 74

BHS (2)  
7' B&B

**DRAFT**

DATE: 7/28/2017 TIME: 9:31:48 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_1n0315.dgn



**DRAWN BY:** BAK  
**DESIGNED BY:** CCA  
**CHECKED BY:** CCA

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SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



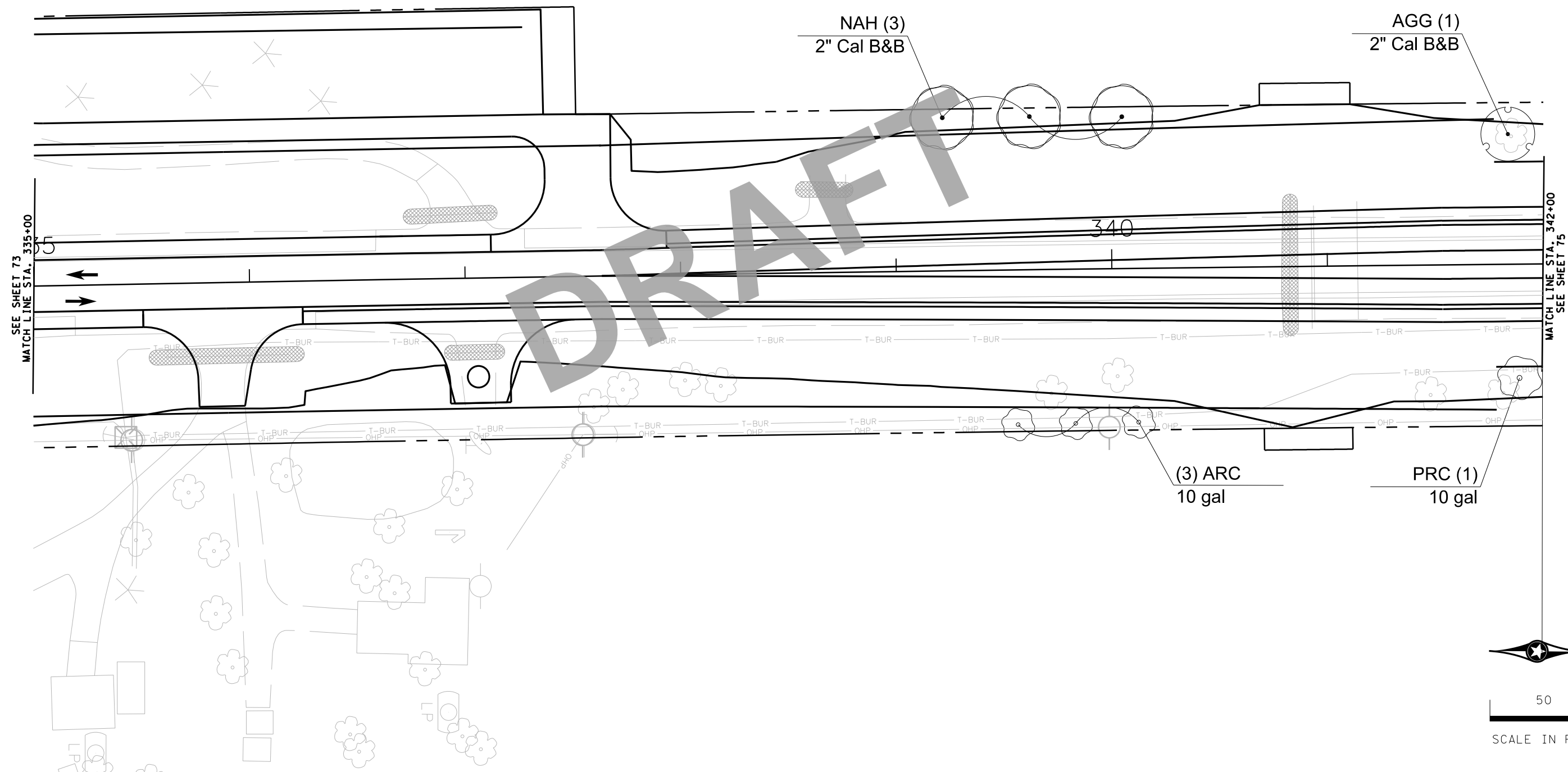
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 73 of 133 Sheets

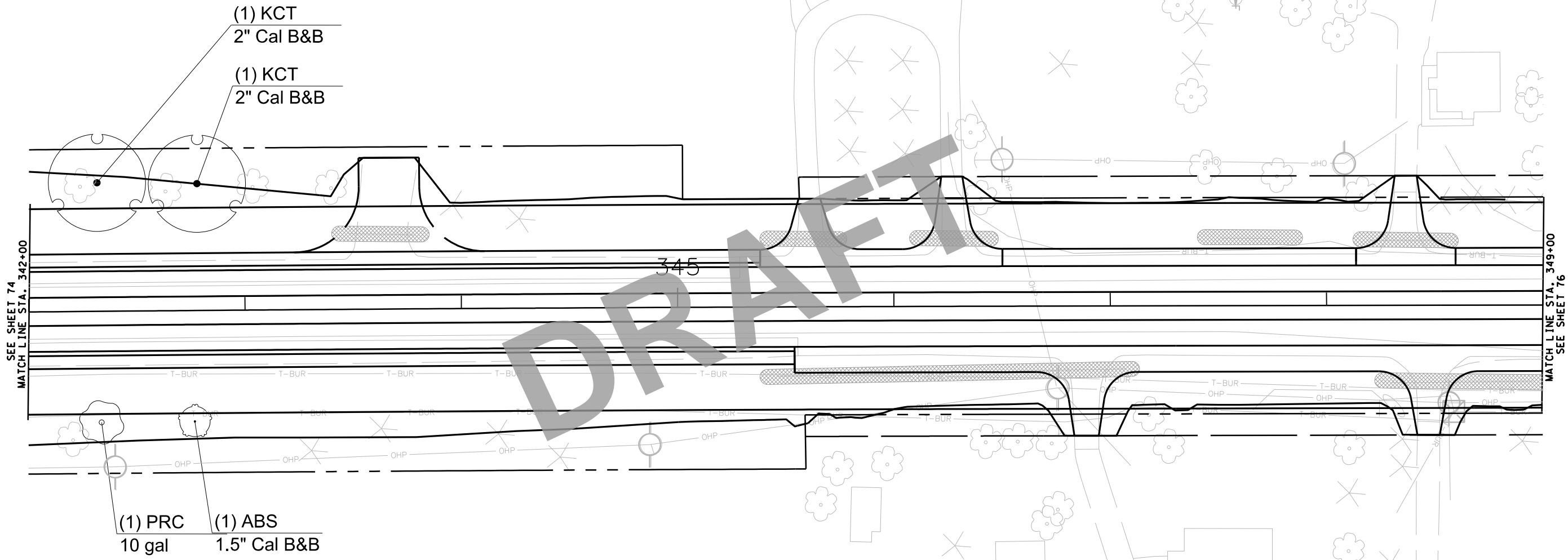
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AGG	1	Ginkgo biloba 'Autumn Gold' TM / Maidenhair Tree	2" Cal B&B
NAH	3	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ARC	3	Malus x 'Adirondack' / Adirondack Crabapple	10 gal
PRC	1	Malus x 'Prairifire' / Prairifire Crabapple	10 gal



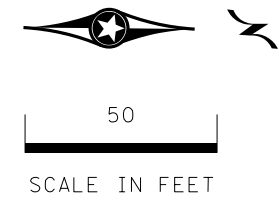
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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
KCT	2	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	1	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
PRC	1	Malus x 'Prairifire' / Prairifire Crabapple	10 gal

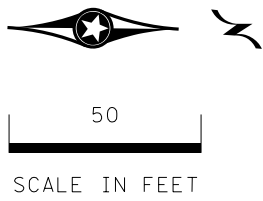
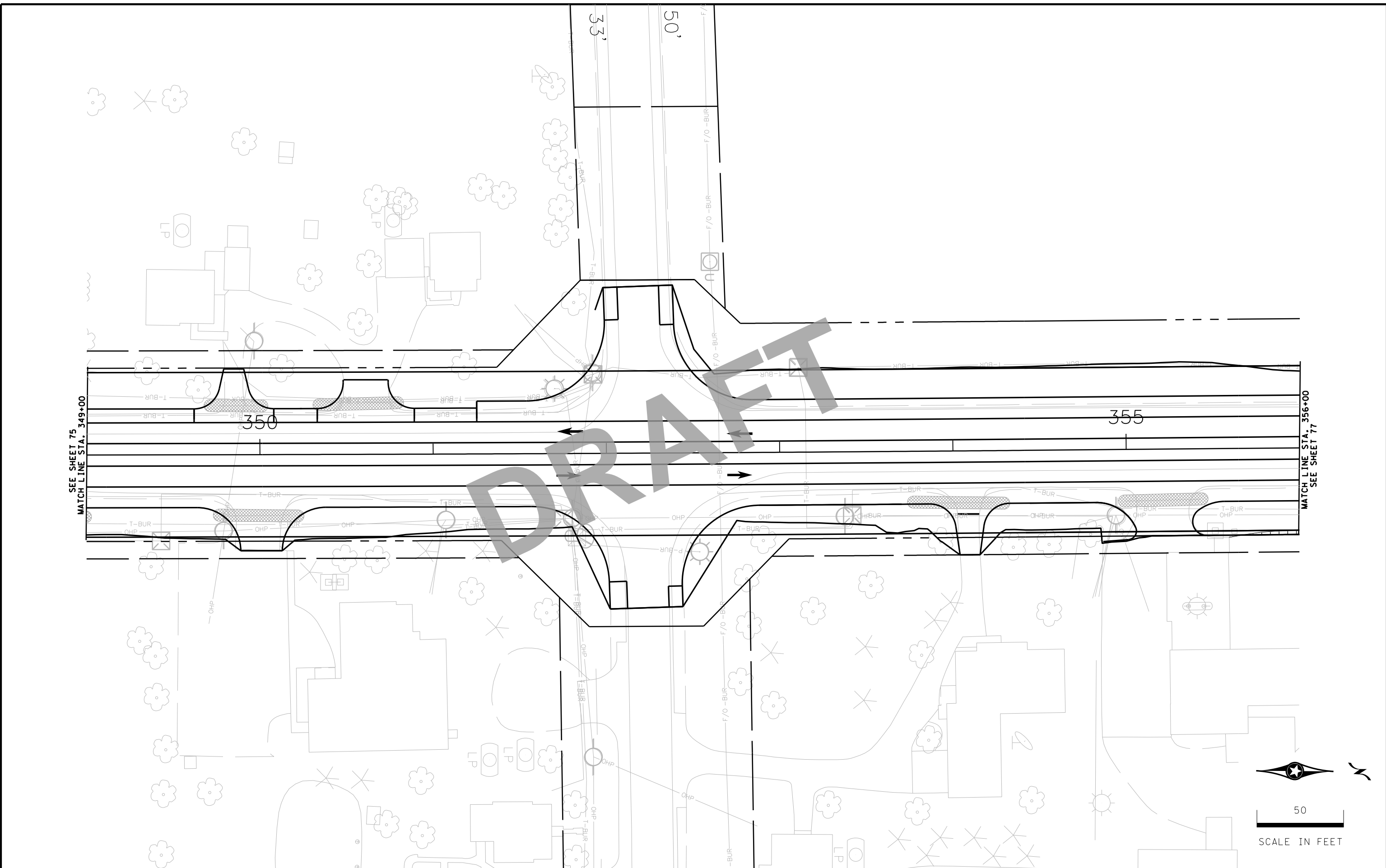


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DATE: 7/28/2017 TIME: 9:31:51 AM  
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CHECKED BY: CCA

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SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



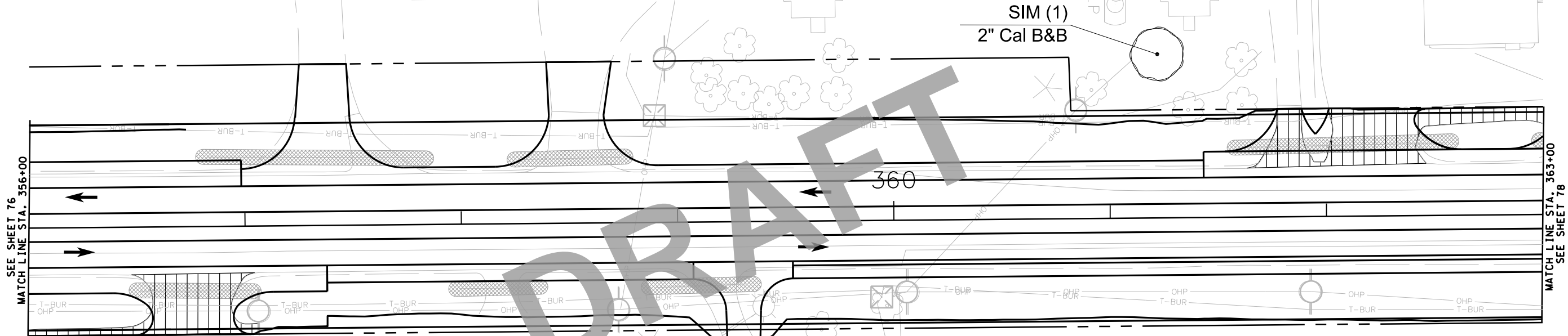
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



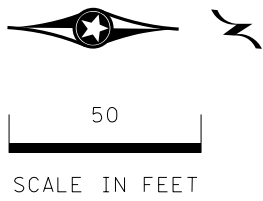
LANDSCAPE PLAN

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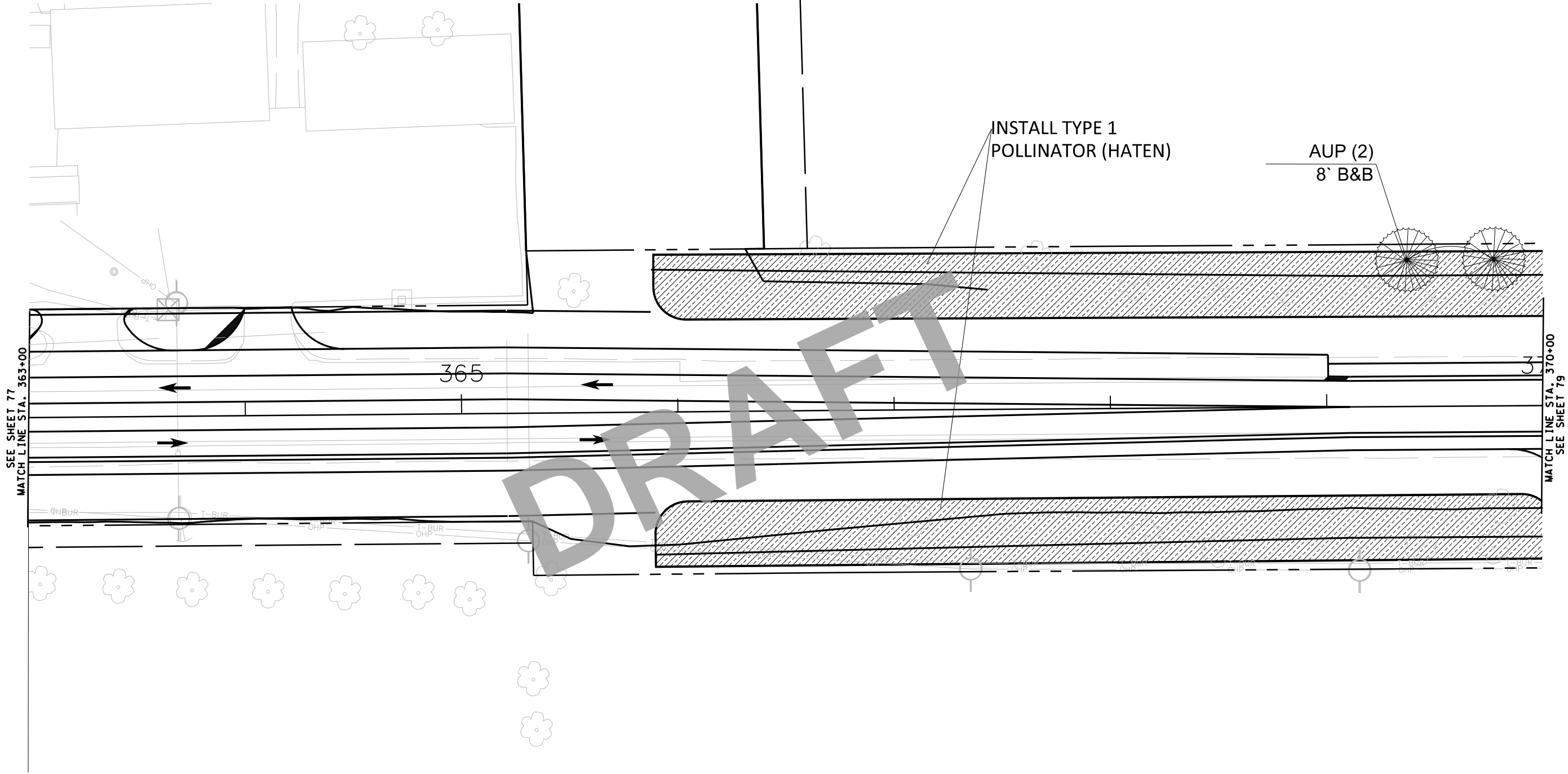
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
SIM	1	Acer x freemanii 'Sienna' / Sienna Glen Maple	2" Cal B&B



DATE: 7/28/2017 TIME: 9:31:52 AM  
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CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
AUP	2	Pinus nigra / Austrian Pine	8' B&B



SEE SHEET 77  
MATCH LINE STA. 363+00

MATCH LINE STA. 370+00  
SEE SHEET 79

365

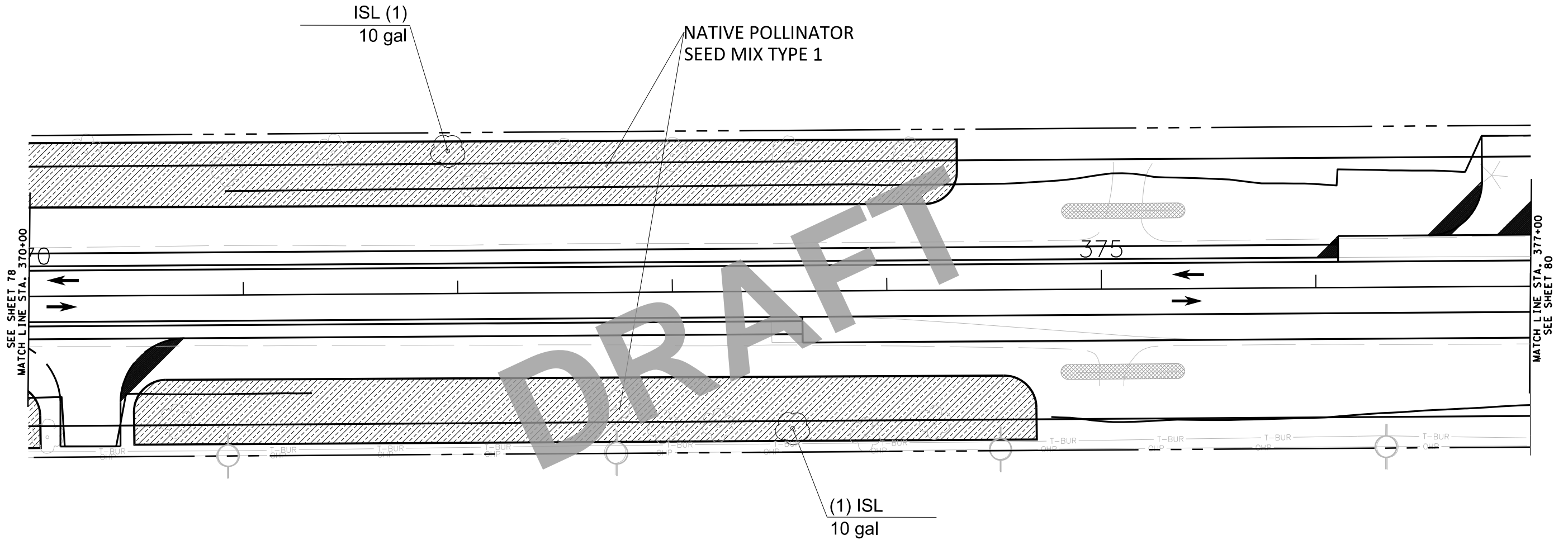
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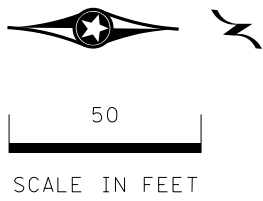
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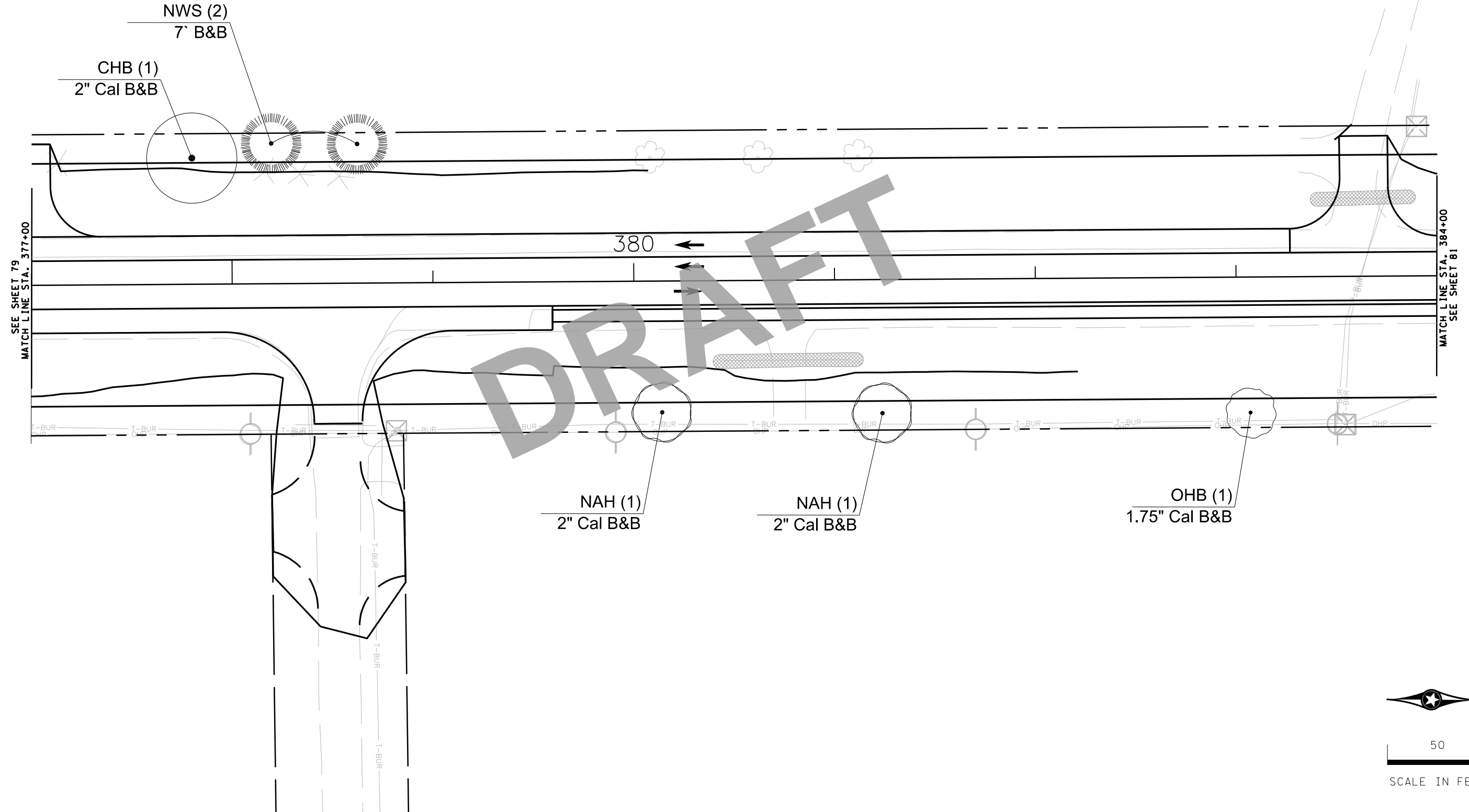
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ISL	2	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal



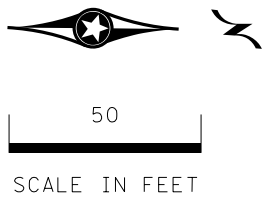
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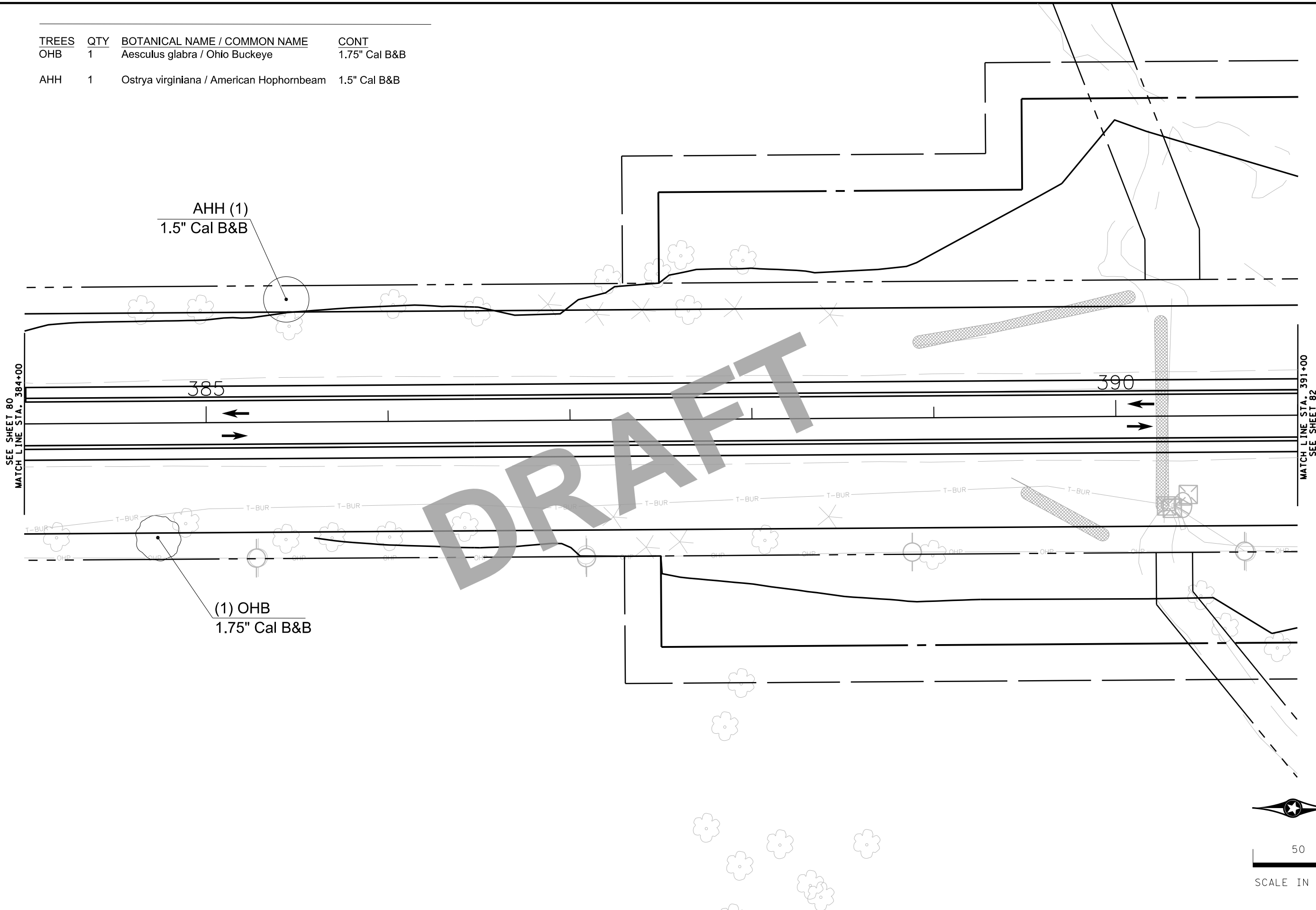
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
OHB	1	Aesculus glabra / Ohio Buckeye	1.75" Cal B&B
CHB	1	Celtis occidentalis / Common Hackberry	2" Cal B&B
NAH	2	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	2	Picea abies / Norway Spruce	7' B&B



DATE: 7/28/2017 TIME: 9:31:56 AM  
 FILENAME: K:\03265-010\Cad\Plan\cd704100\_in042.dgn



TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
OHB	1	Aesculus glabra / Ohio Buckeye	1.75" Cal B&B
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B



DATE: 7/28/2017 TIME: 9:31:58 AM  
 FILENAME: K:\03265-010\Cad\Plan\cd704100\_in043.dgn

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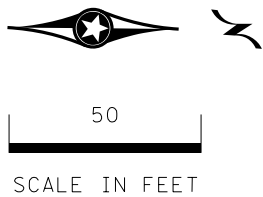
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
CHB	3	Celtis occidentalis / Common Hackberry	2" Cal B&B
NAH	2	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B

SEE SHEET 81  
MATCH LINE STA. 391+00

MATCH LINE STA. 398+00  
SEE SHEET 83

DRAFT

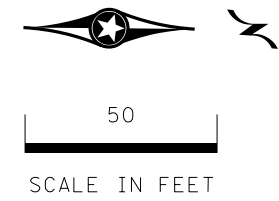
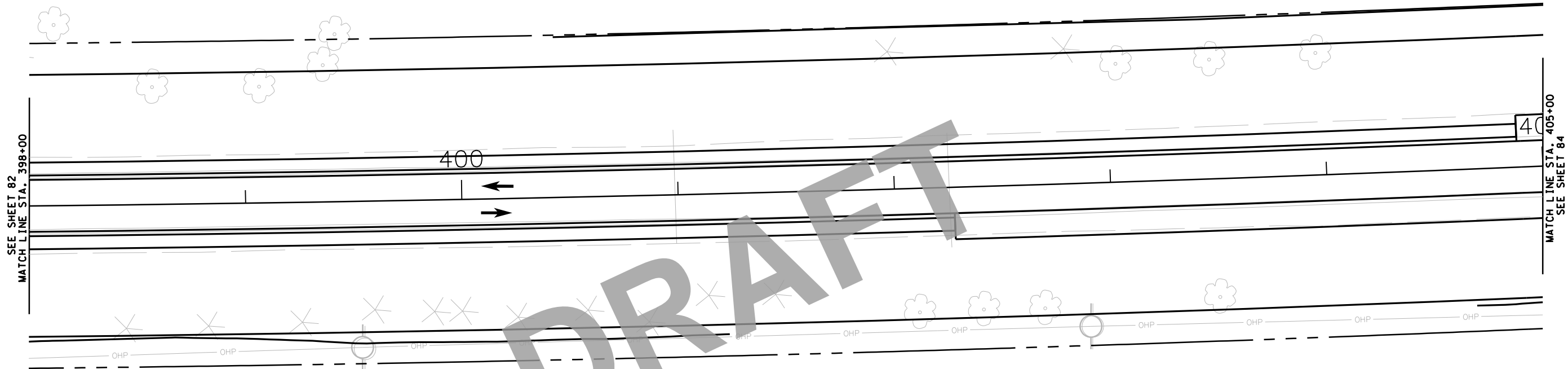
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	DATE: 7/28/2017					
	LIC. NO. 40646					



DATE: 7/28/2017 TIME: 9:32:00 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_in045.dgn



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SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



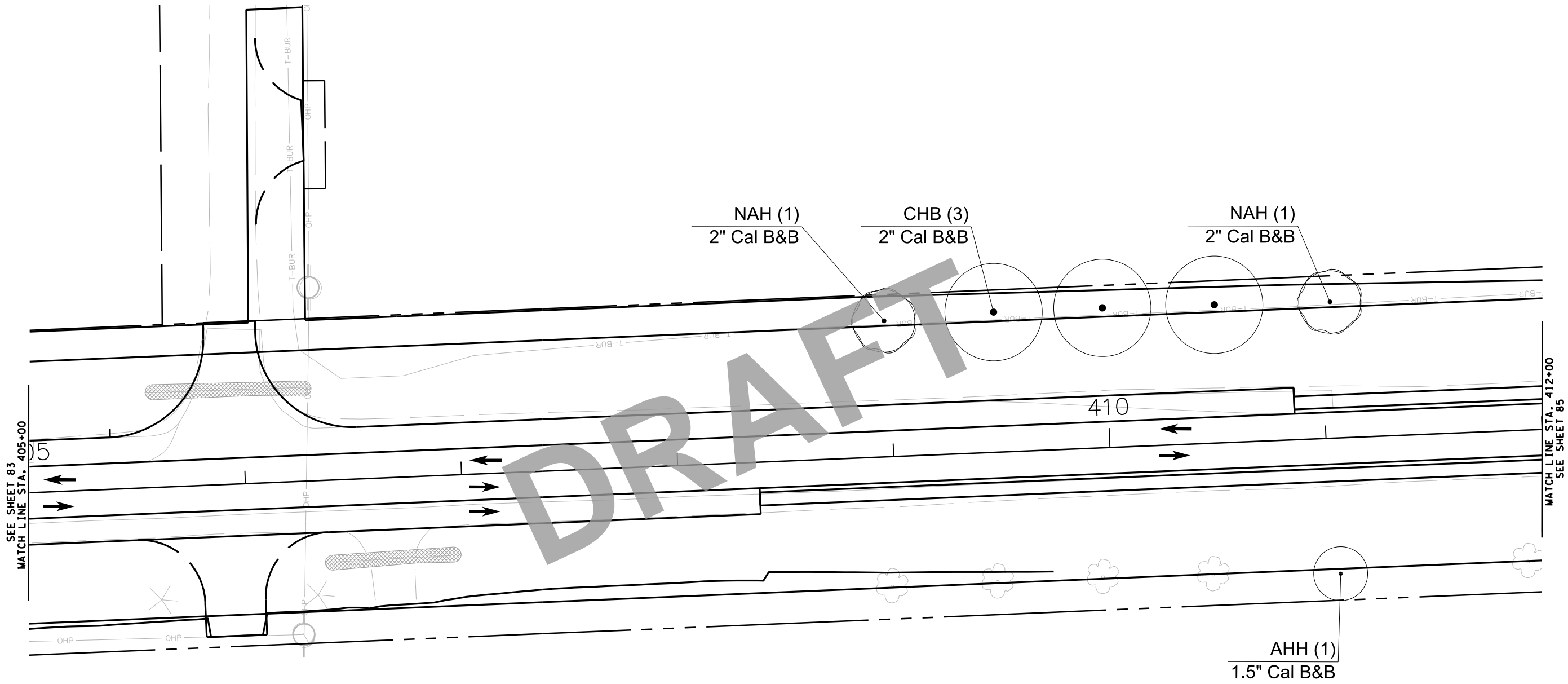
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



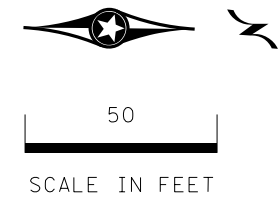
LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
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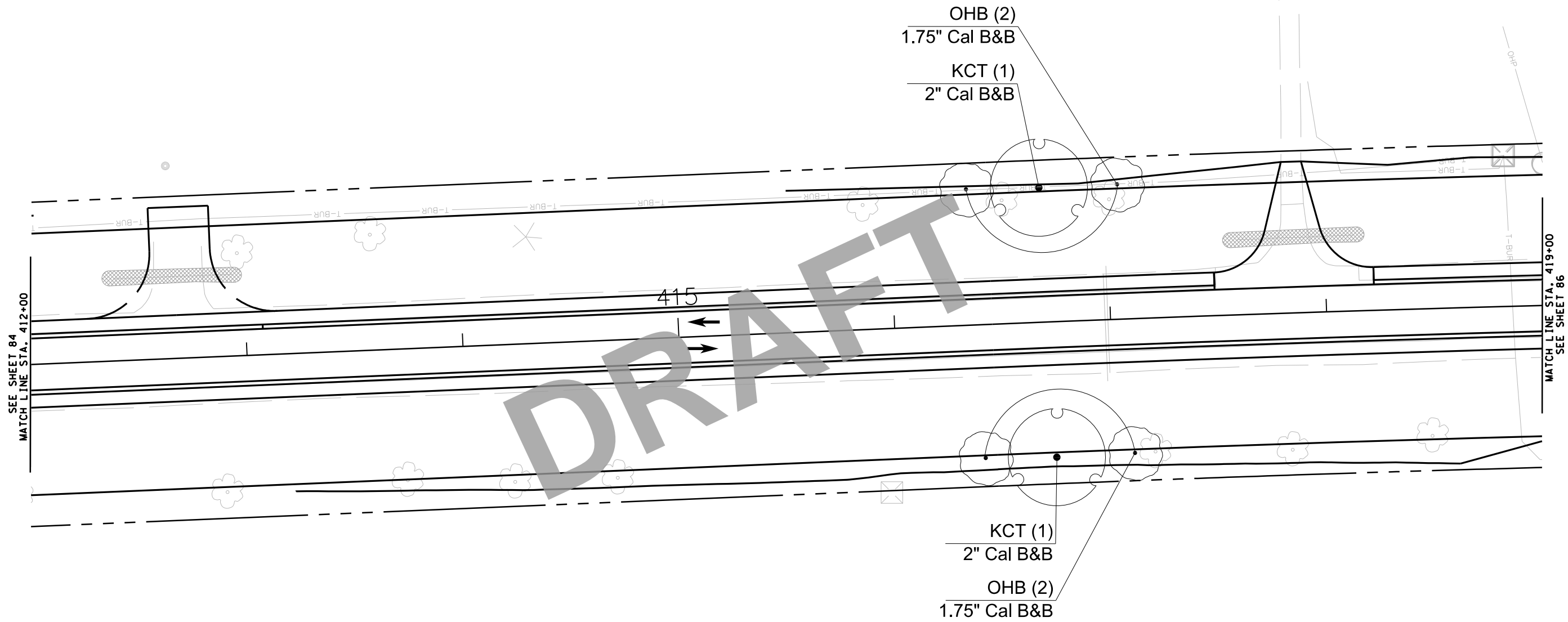
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
OHB	4	Aesculus glabra / Ohio Buckeye	1.75" Cal B&B
KCT	2	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B



DATE: 7/28/2017 TIME: 9:32:02 AM  
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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
OHB	4	Aesculus glabra / Ohio Buckeye	1.75" Cal B&B
KCT	2	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B



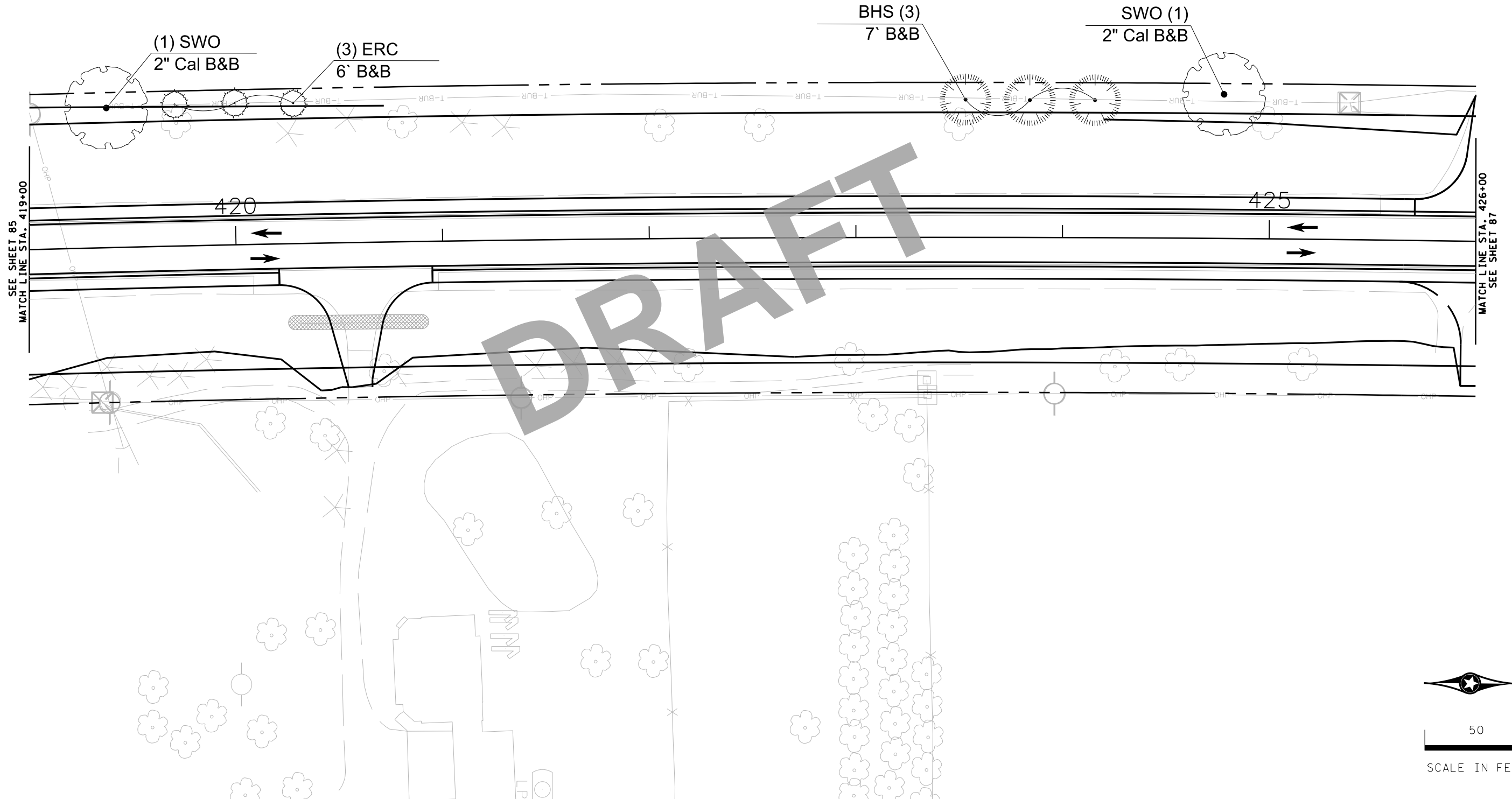
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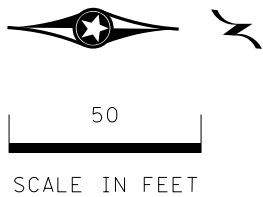
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SCALE IN FEET

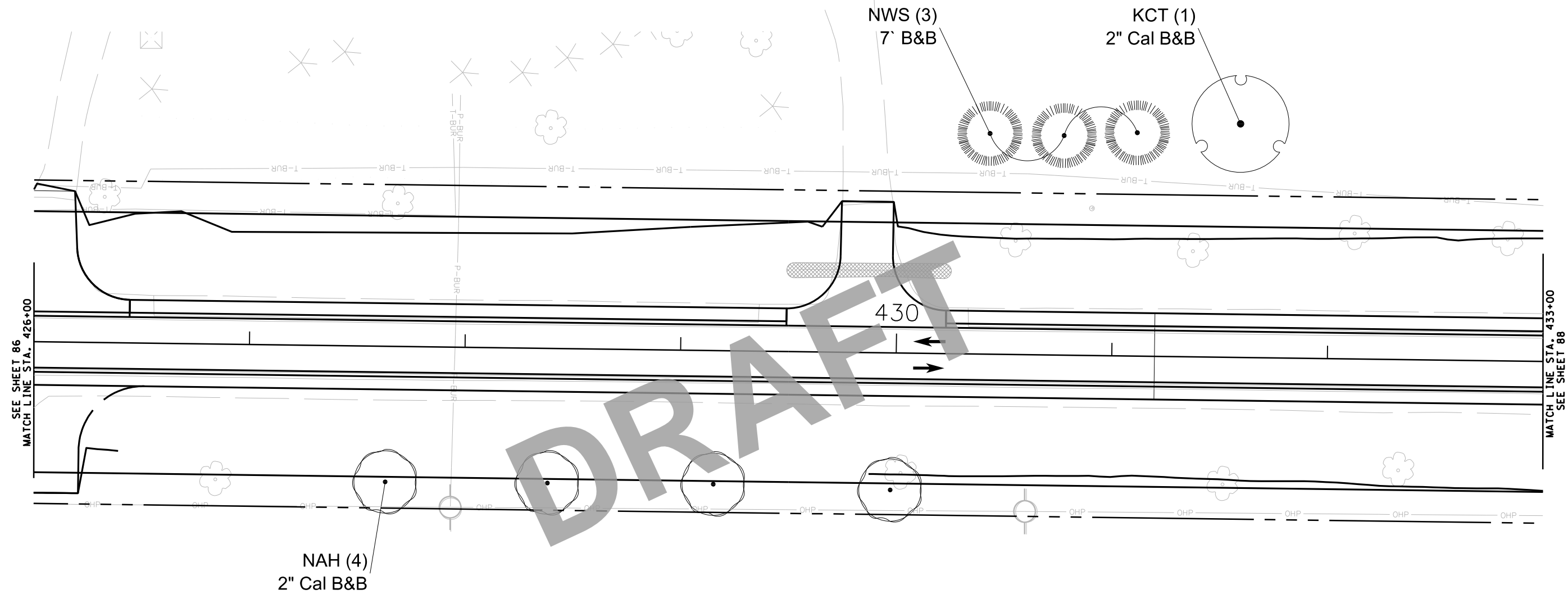
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
SWO	2	Quercus bicolor / Swamp White Oak	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
ERC	3	Juniperus virginiana / Eastern Red Cedar	6' B&B
BHS	3	Picea glauca 'Densata' / Black Hills Spruce	7' B&B



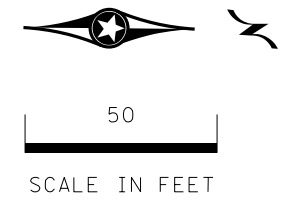
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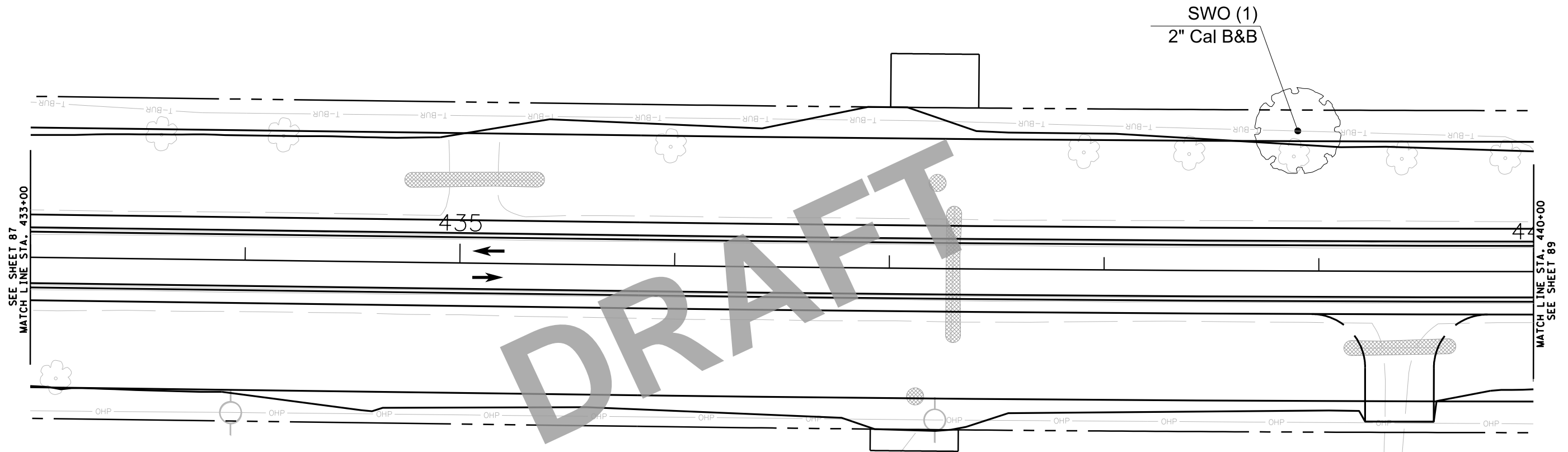
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
NAH	4	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
KCT	1	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	3	Picea abies / Norway Spruce	7' B&B



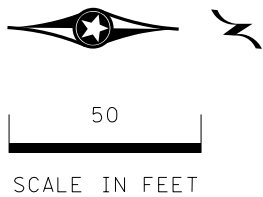
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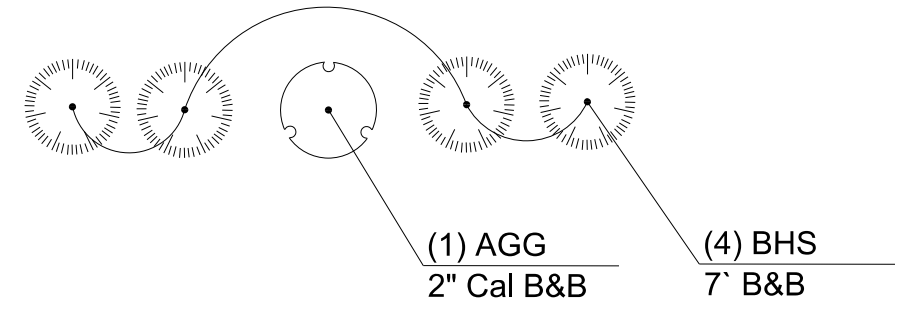
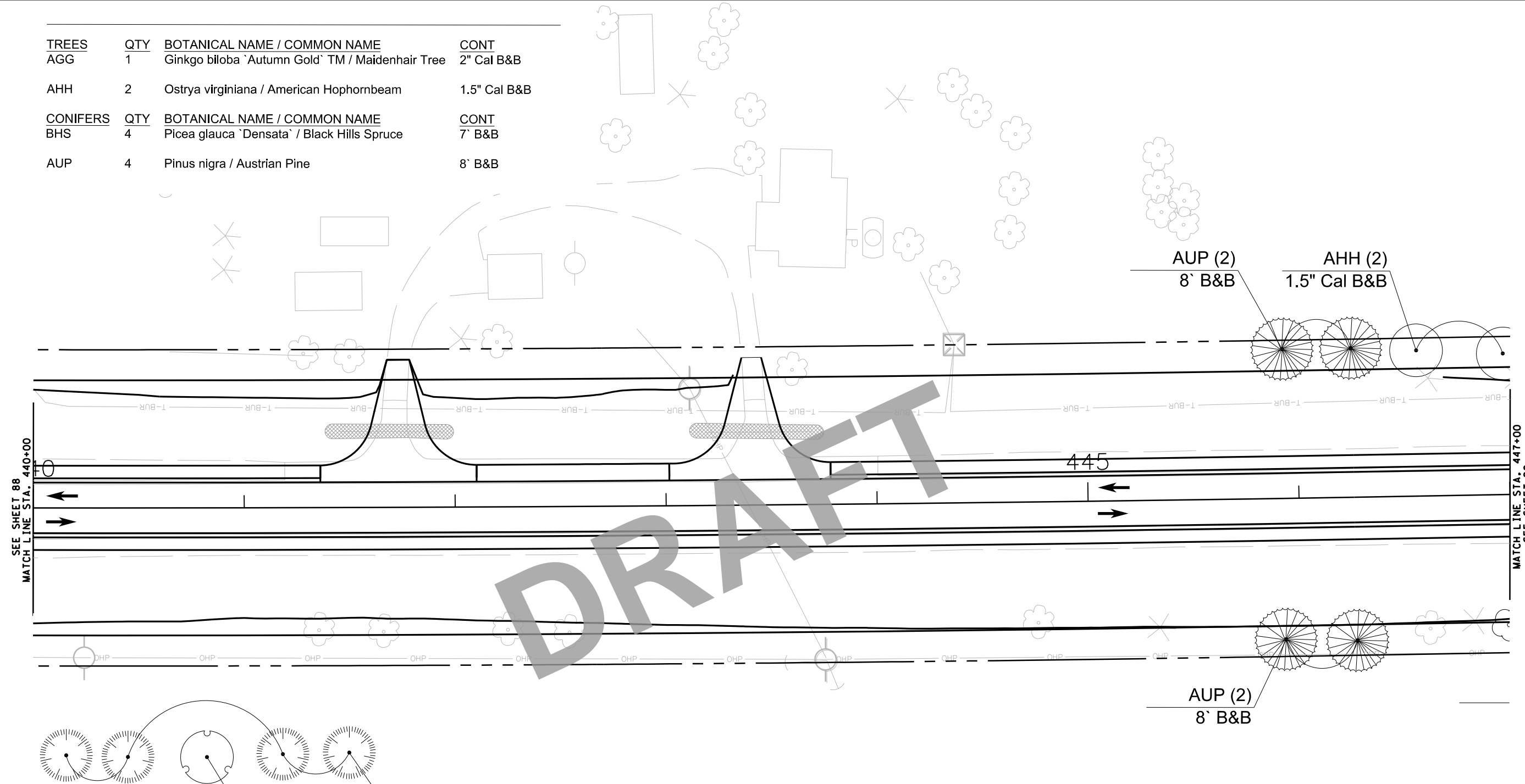
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
SWO	1	Quercus bicolor / Swamp White Oak	2" Cal B&B



DATE: 7/28/2017 TIME: 9:32:12 AM  
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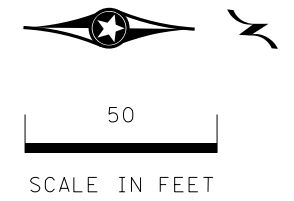
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AGG	1	Ginkgo biloba 'Autumn Gold' TM / Maidenhair Tree	2" Cal B&B
AHH	2	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	4	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
AUP	4	Pinus nigra / Austrian Pine	8' B&B



AUP (2)  
8' B&B

AHH (2)  
1.5" Cal B&B

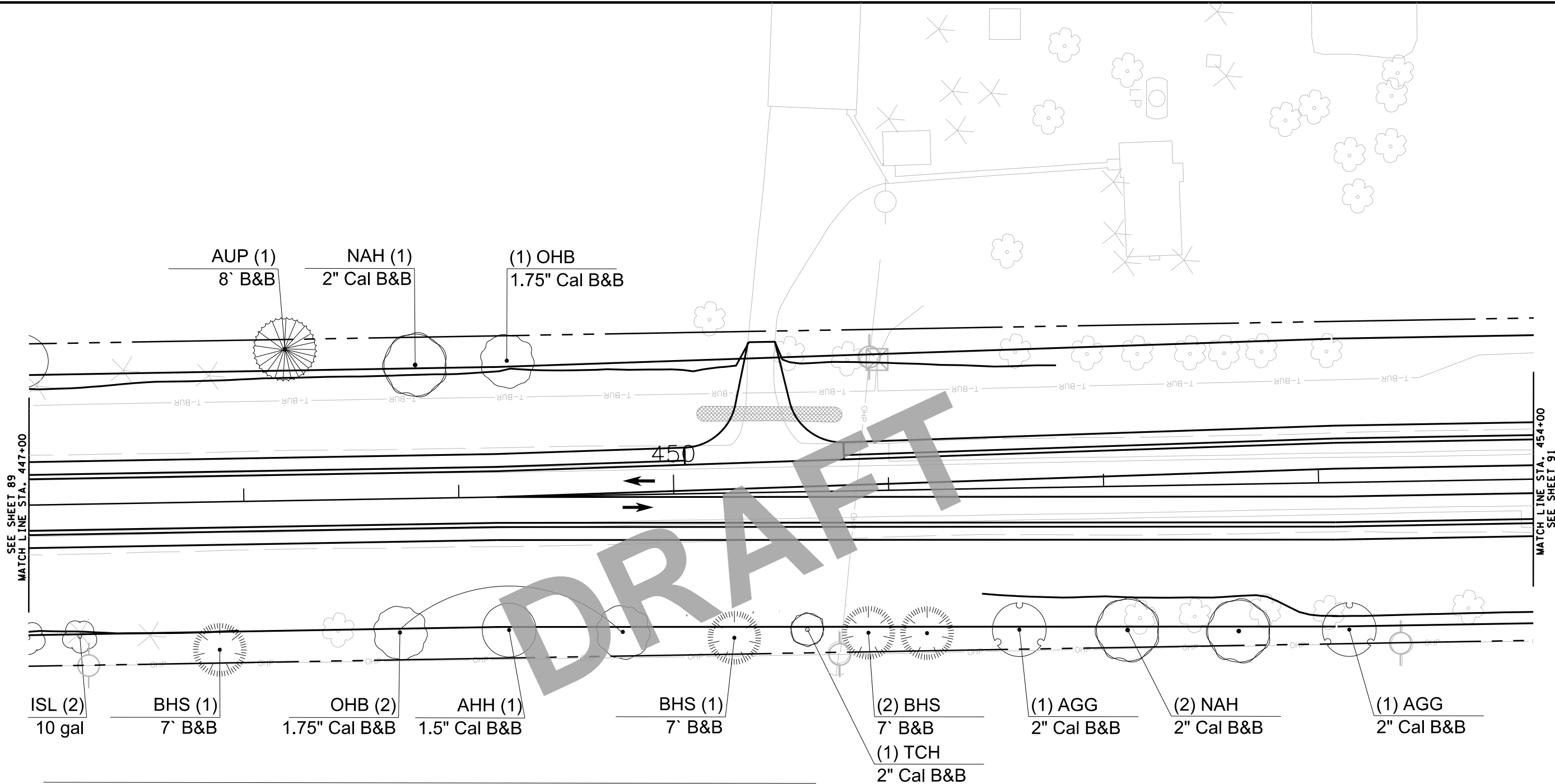
AUP (2)  
8' B&B



DATE: 7/28/2017 TIME: 9:32:13 AM  
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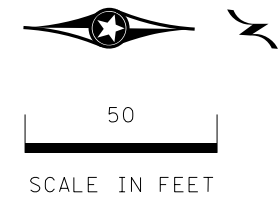


DATE: 7/28/2017 TIME: 9:32:14 AM  
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DRAFT

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
OHB	3	Aesculus glabra / Ohio Buckeye	1.75" Cal B&B
AGG	2	Ginkgo biloba 'Autumn Gold' TM / Maidenhair Tree	2" Cal B&B
NAH	3	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
AHH	2	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
<b>CONIFERS</b>			
BHS	4	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
AUP	1	Pinus nigra / Austrian Pine	8' B&B
<b>FLOWERING TREES</b>			
TCH	1	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
ISL	2	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal



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SIGNATURE: \_\_\_\_\_  
 PRINTED NAME: CANDACE C. AMBERG  
 DATE: 7/28/2017 LIC. NO. 40646

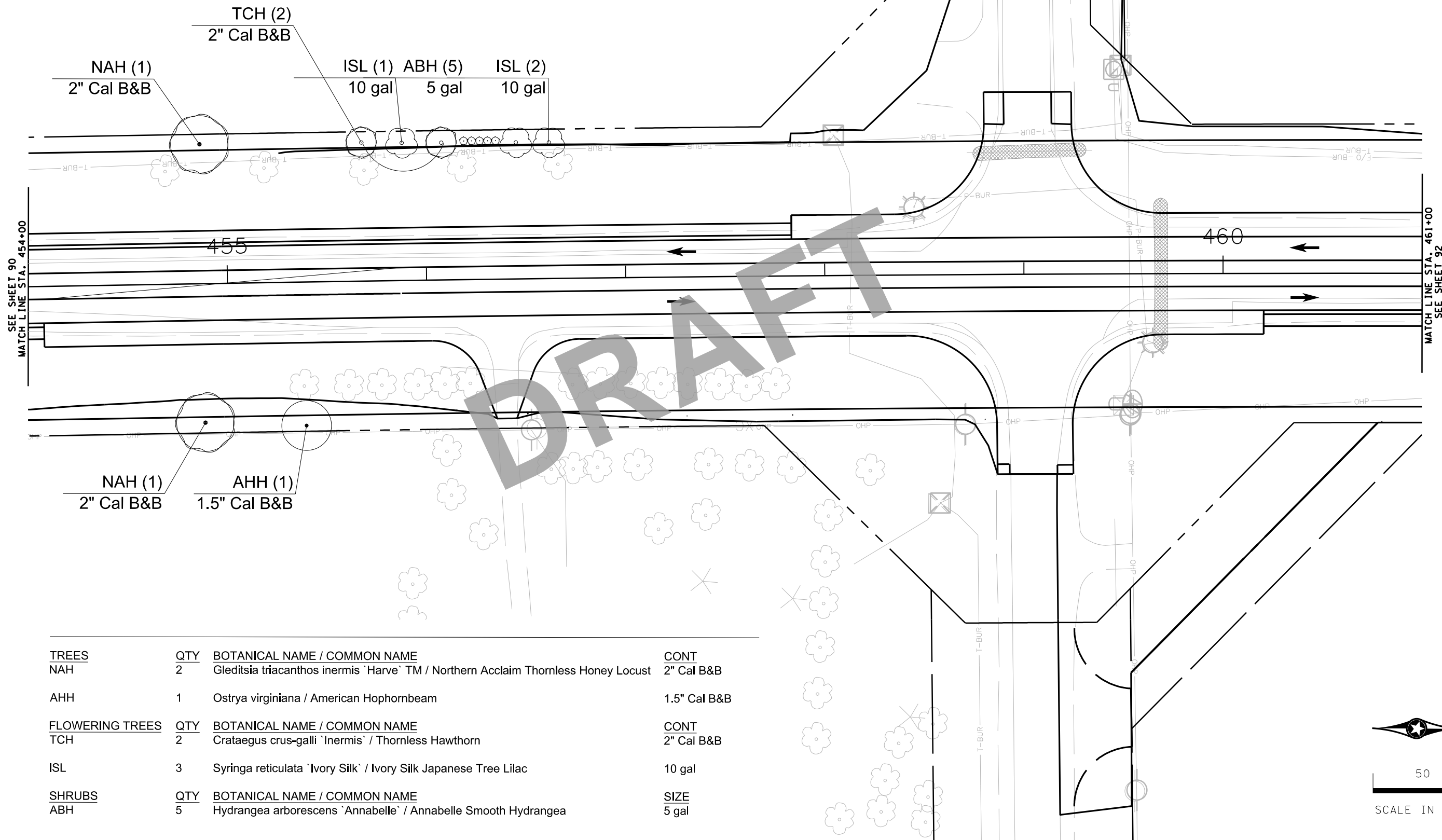
MINNESOTA DEPARTMENT OF TRANSPORTATION  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO



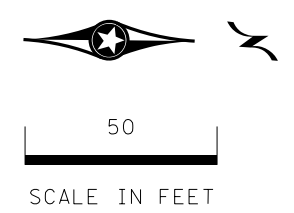
LANDSCAPE PLAN

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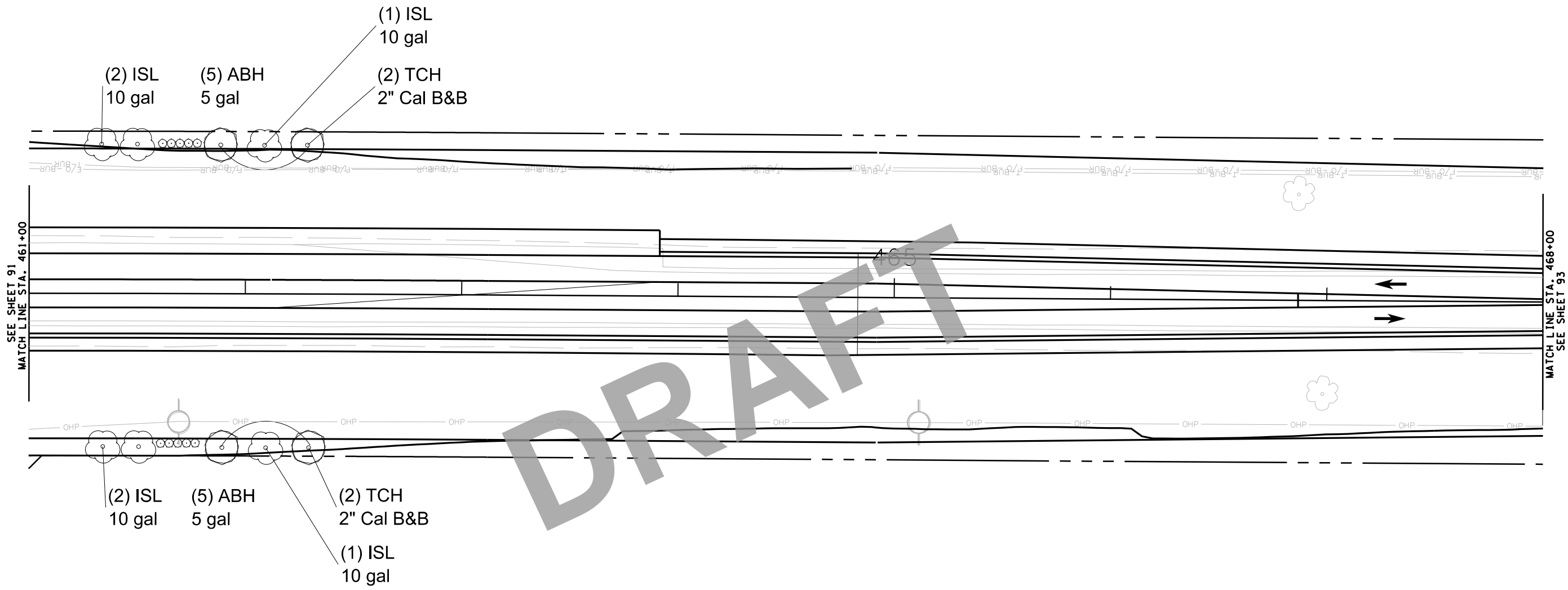
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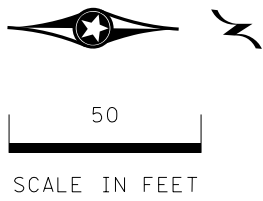
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
NAH	2	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	2	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
ISL	3	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
ABH	5	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal



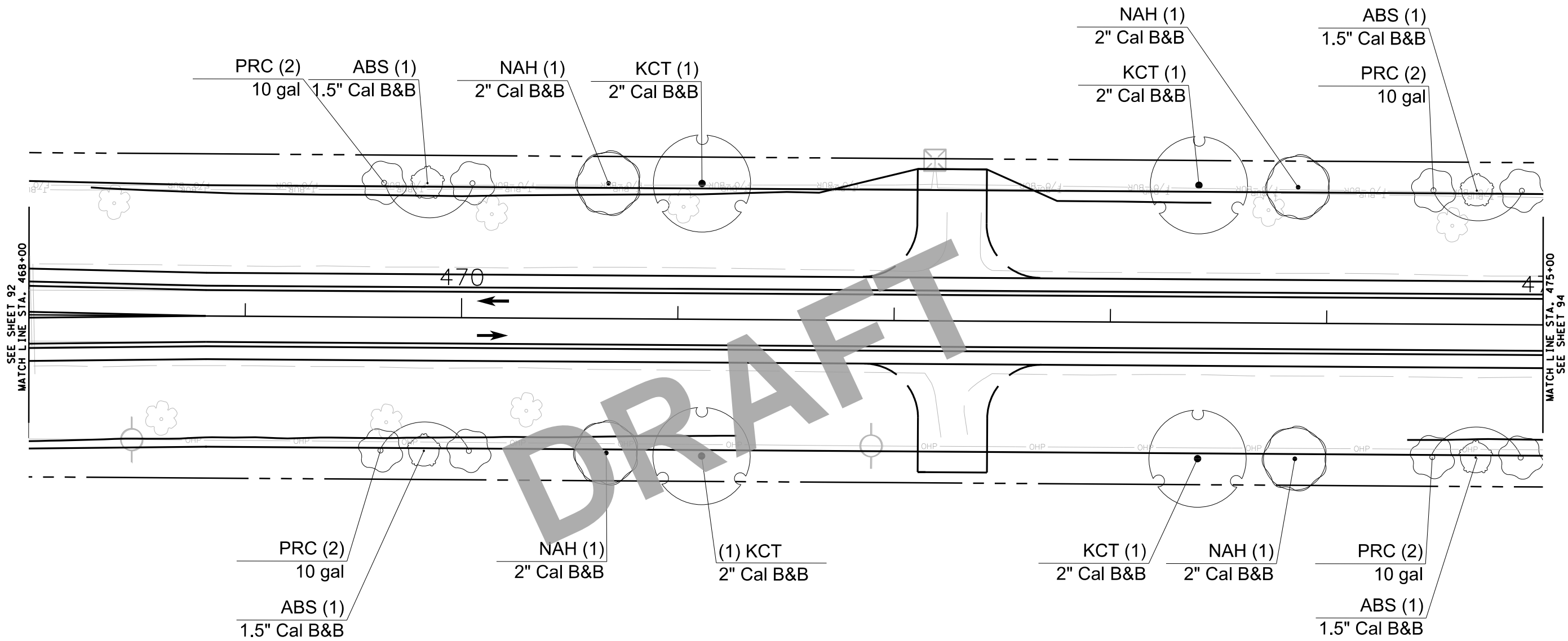
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FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	4	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
ISL	6	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
ABH	10	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal

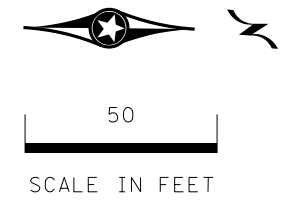


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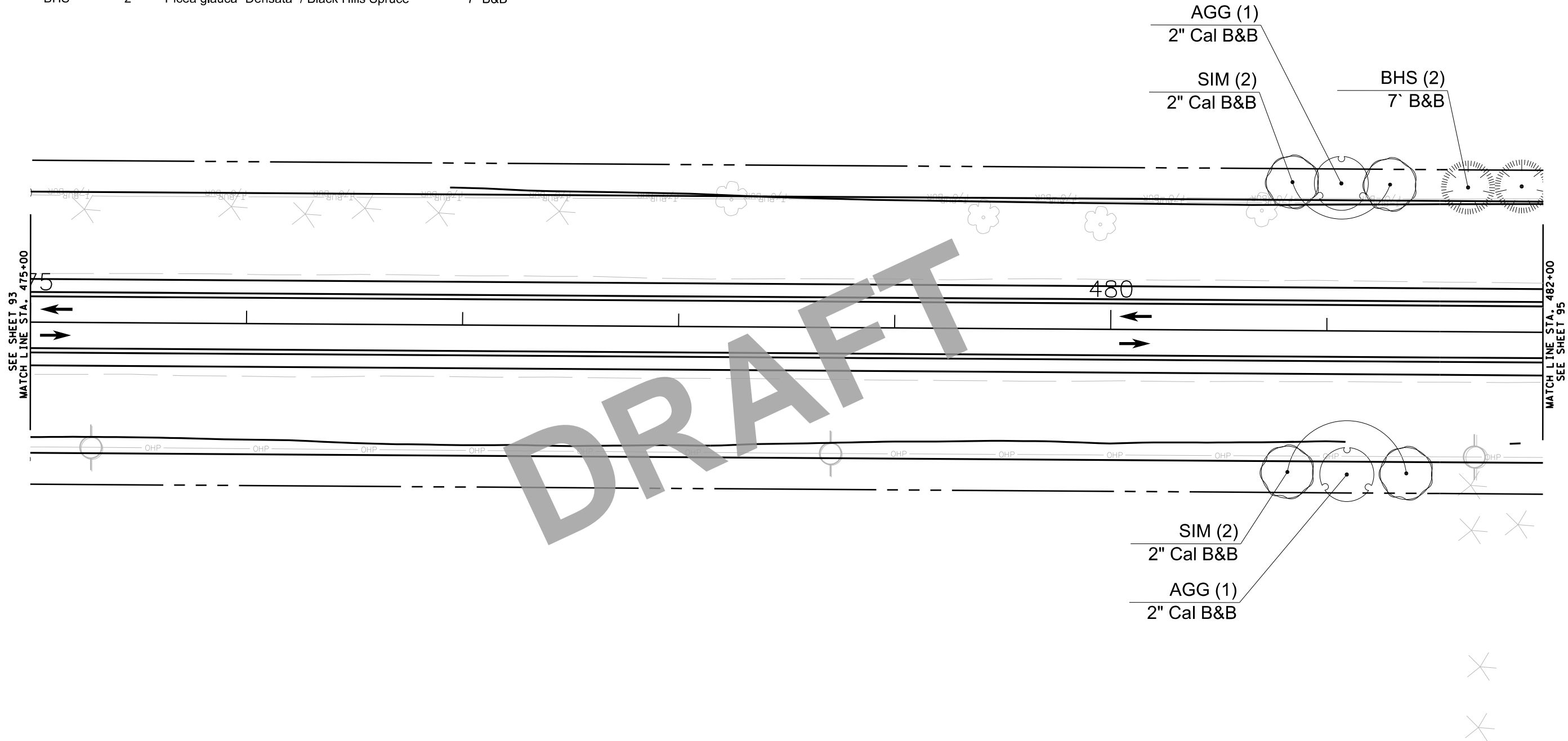


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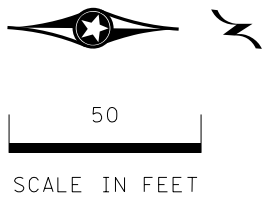
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
NAH	4	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
KCT	4	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	4	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
PRC	8	Malus x 'Prairifire' / Prairifire Crabapple	10 gal



TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
SIM	4	Acer x freemanii 'Sienna' / Sienna Glen Maple	2" Cal B&B
AGG	2	Ginkgo biloba 'Autumn Gold' TM / Maidenhair Tree	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	2	Picea glauca 'Densata' / Black Hills Spruce	7' B&B



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<b>DESIGNED BY:</b> CCA		PRINTED NAME: CANDACE C. AMBERG
<b>CHECKED BY:</b> CCA		DATE: 7/28/2017 LIC. NO. 40646

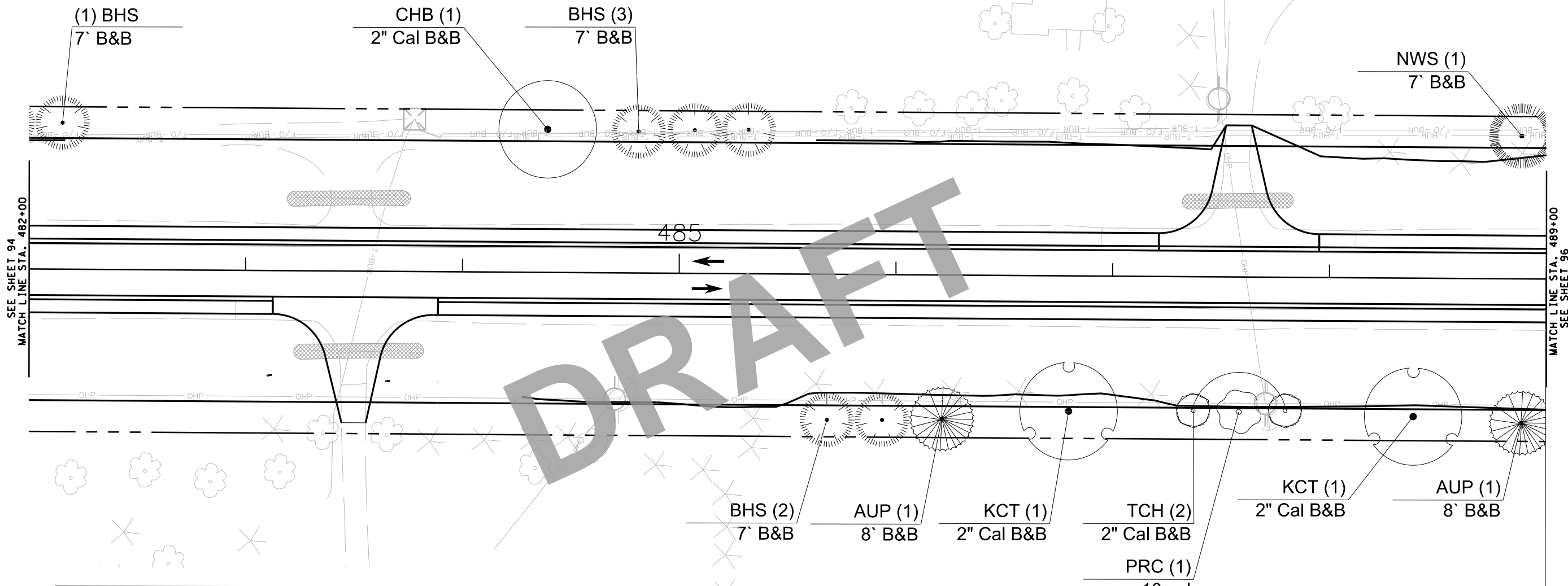
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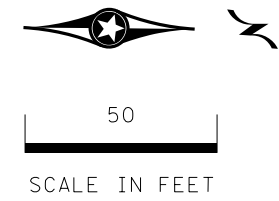
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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
CHB	1	Celtis occidentalis / Common Hackberry	2" Cal B&B
KCT	2	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	1	Picea abies / Norway Spruce	7' B&B
BHS	6	Picea glauca `Densata` / Black Hills Spruce	7' B&B
AUP	2	Pinus nigra / Austrian Pine	8' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	2	Crataegus crus-galli `Inermis` / Thornless Hawthorn	2" Cal B&B
PRC	1	Malus x `Prairifire` / Prairifire Crabapple	10 gal



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 DATE: 7/28/2017 LIC. NO. 40646



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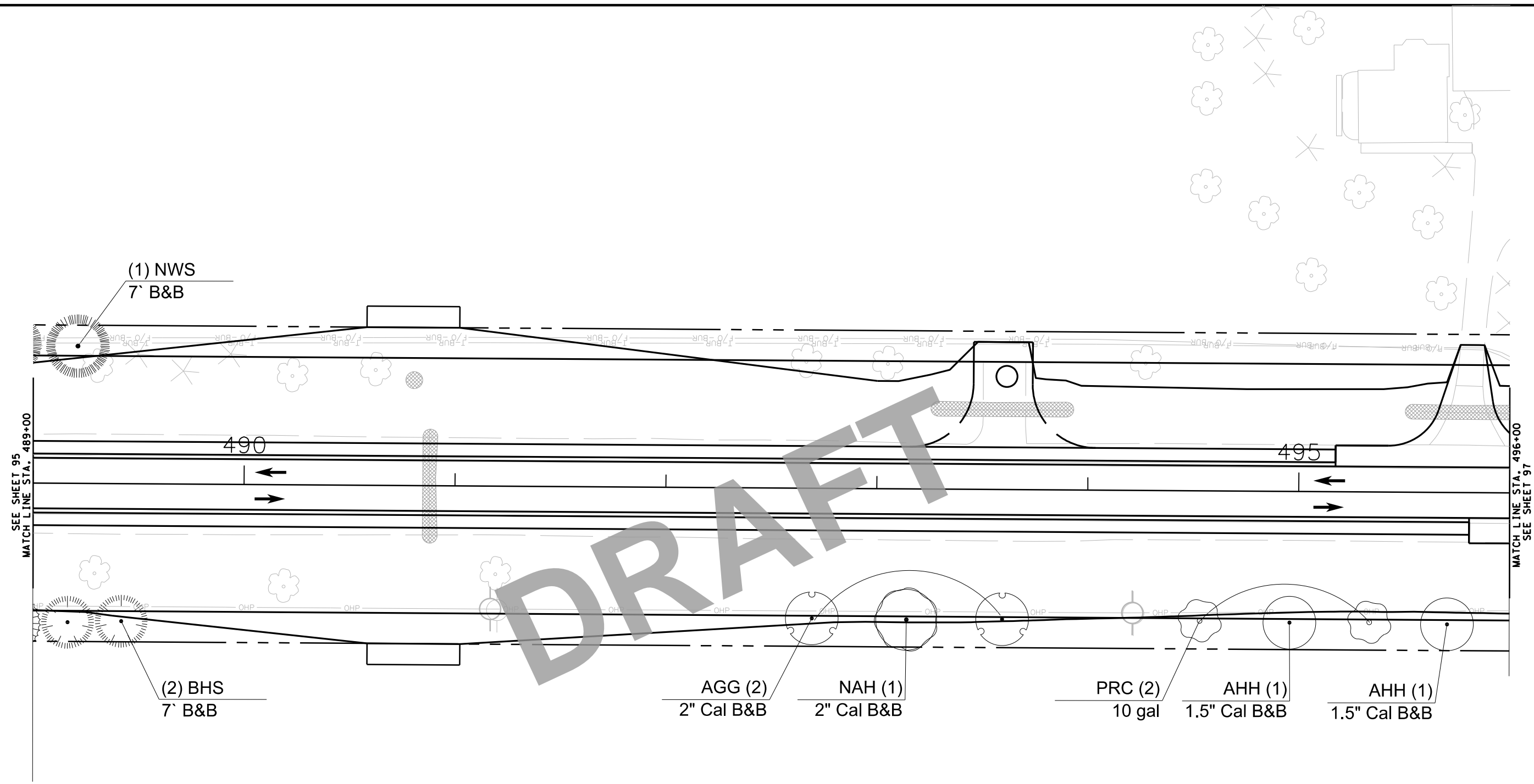


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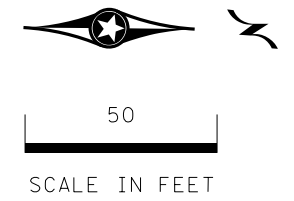


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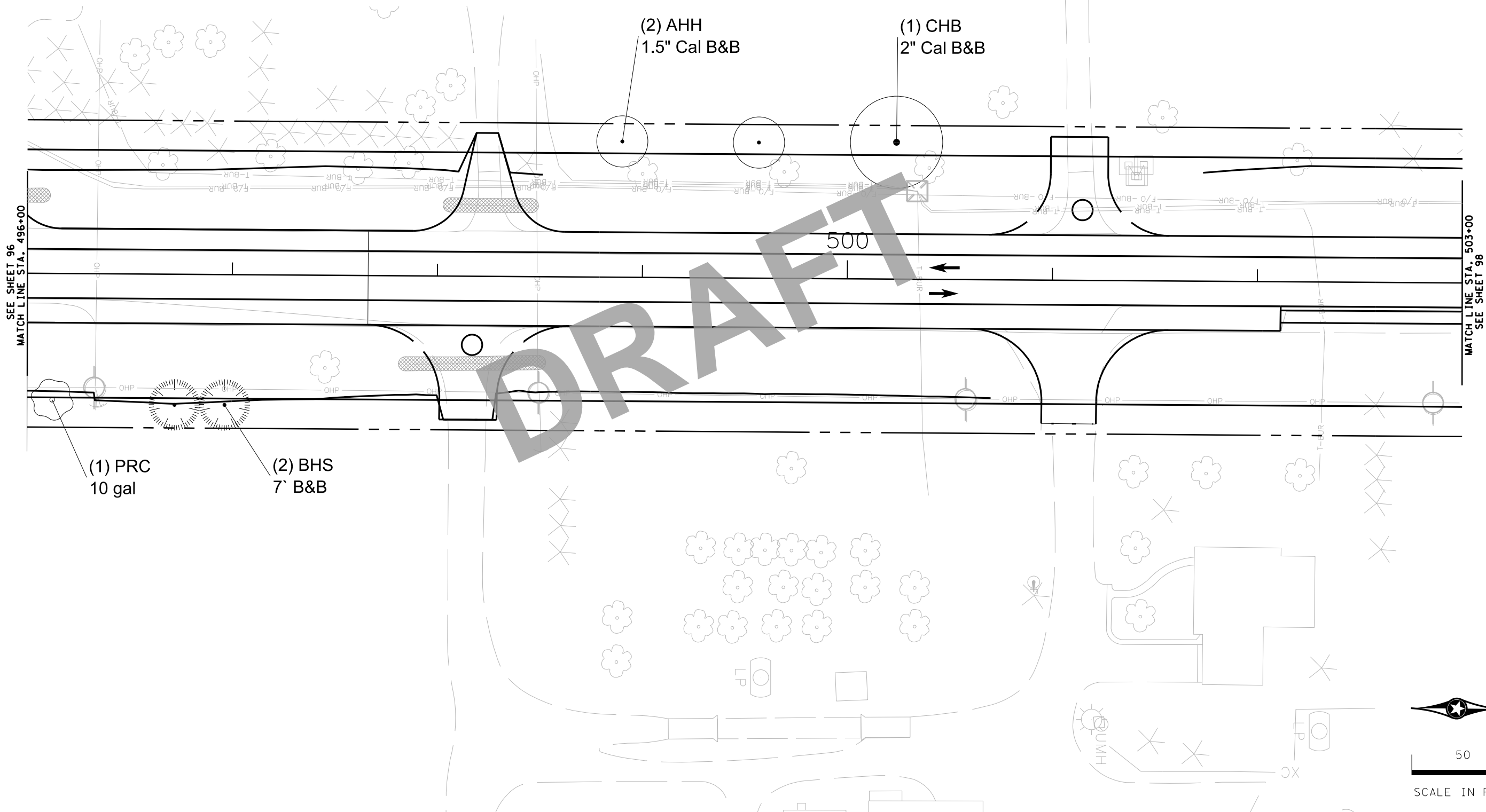
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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AGG	2	Ginkgo biloba 'Autumn Gold' TM / Maidenhair Tree	2" Cal B&B
NAH	1	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
AHH	2	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	1	Picea abies / Norway Spruce	7' B&B
BHS	2	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
PRC	2	Malus x 'Prairifire' / Prairifire Crabapple	10 gal



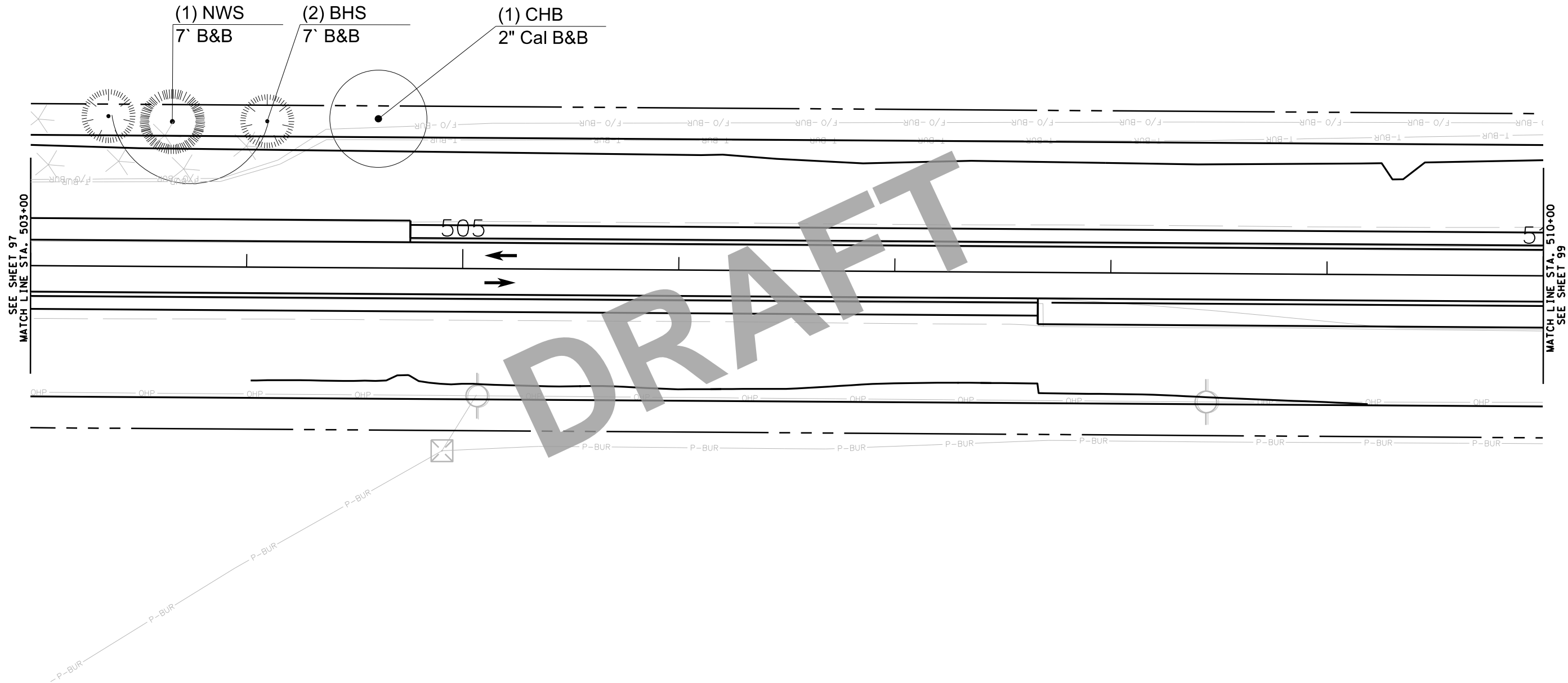


TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
CHB	1	Celtis occidentalis / Common Hackberry	2" Cal B&B
AHH	2	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	2	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
PRC	1	Malus x 'Prairifire' / Prairifire Crabapple	10 gal

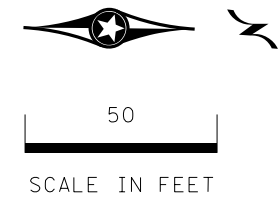


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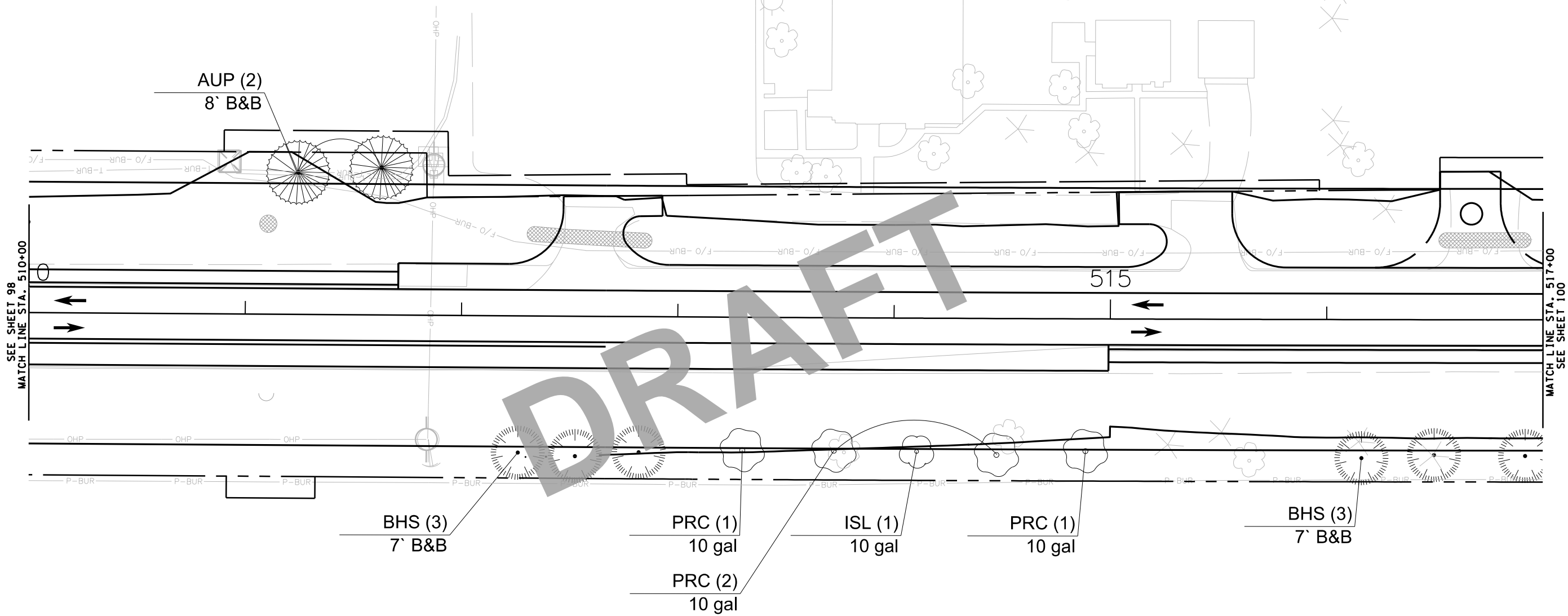
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
CHB	1	Celtis occidentalis / Common Hackberry	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	1	Picea abies / Norway Spruce	7' B&B
BHS	2	Picea glauca 'Densata' / Black Hills Spruce	7' B&B



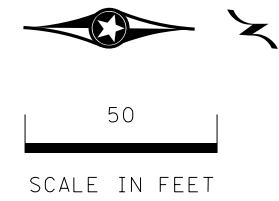
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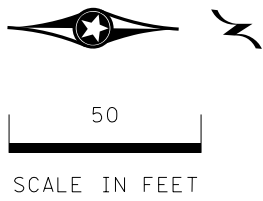
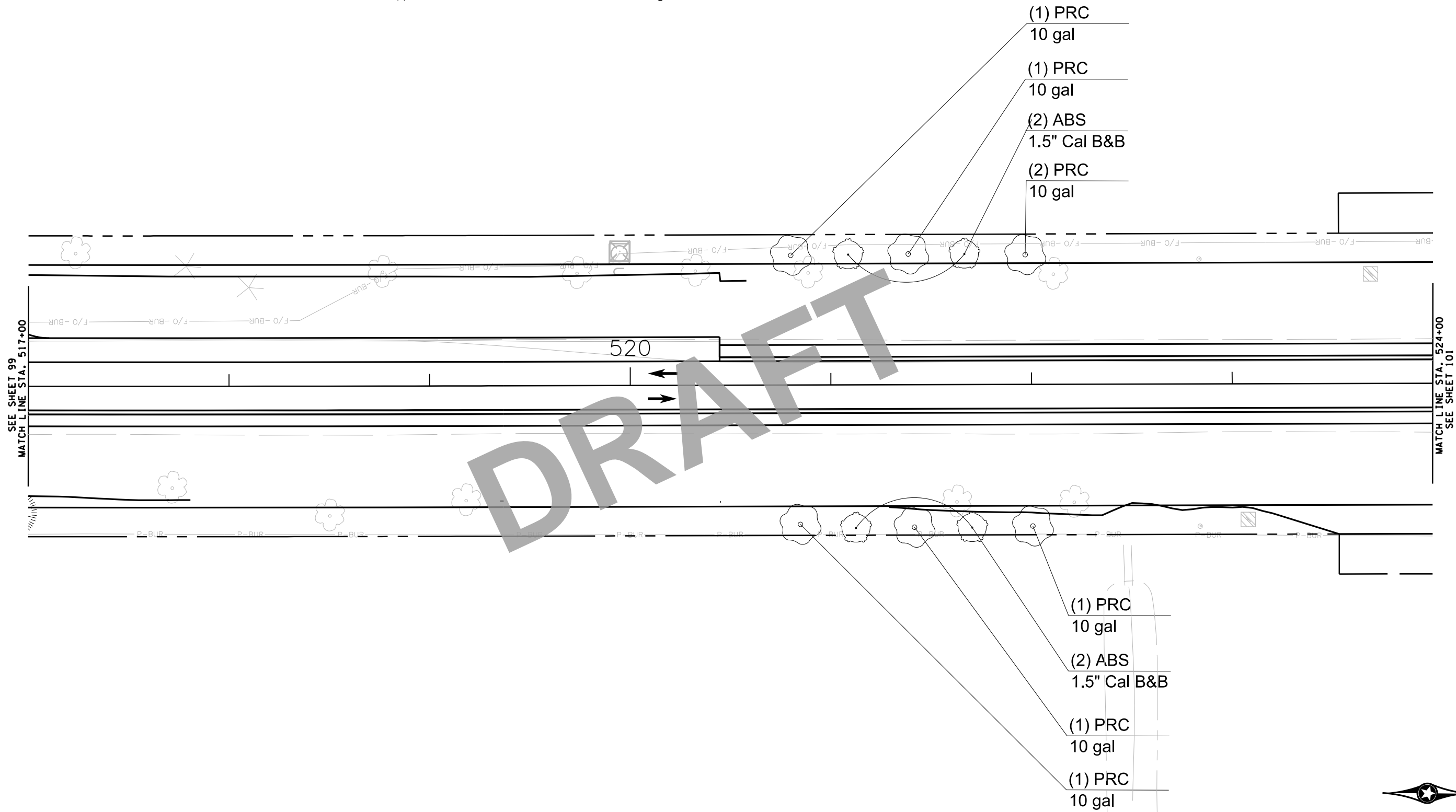
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	6	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
AUP	2	Pinus nigra / Austrian Pine	8' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
PRC	4	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
ISL	1	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal



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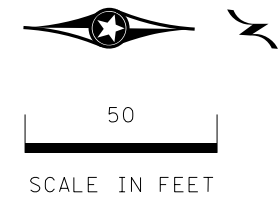
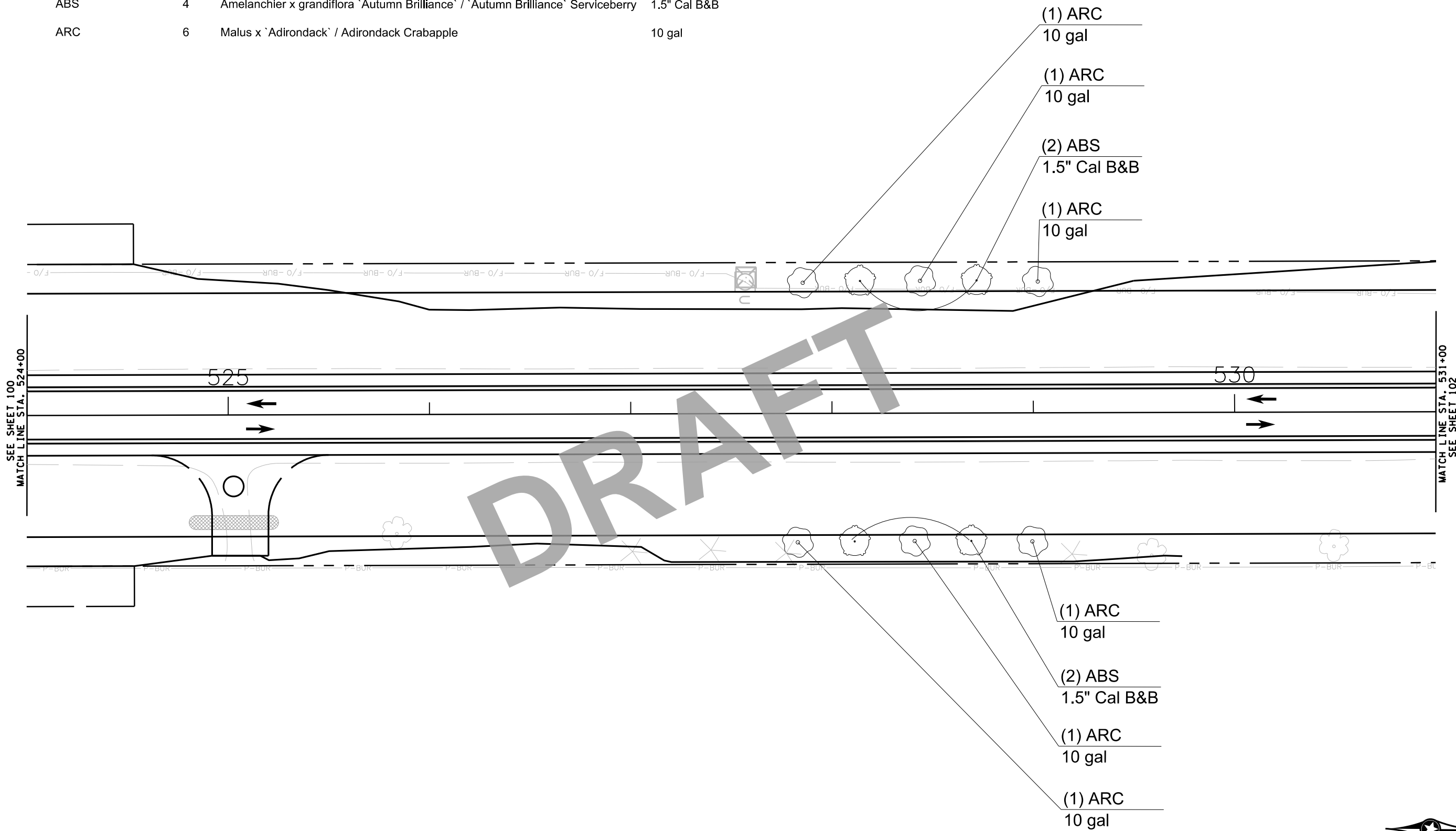


FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	4	Amelanchier x grandiflora `Autumn Brilliance` / `Autumn Brilliance` Serviceberry	1.5" Cal B&B
PRC	6	Malus x `Prairifire` / Prairifire Crabapple	10 gal



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FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	4	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
ARC	6	Malus x 'Adirondack' / Adirondack Crabapple	10 gal



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<b>CHECKED BY:</b> CCA		DATE: 7/28/2017 LIC. NO. 40646

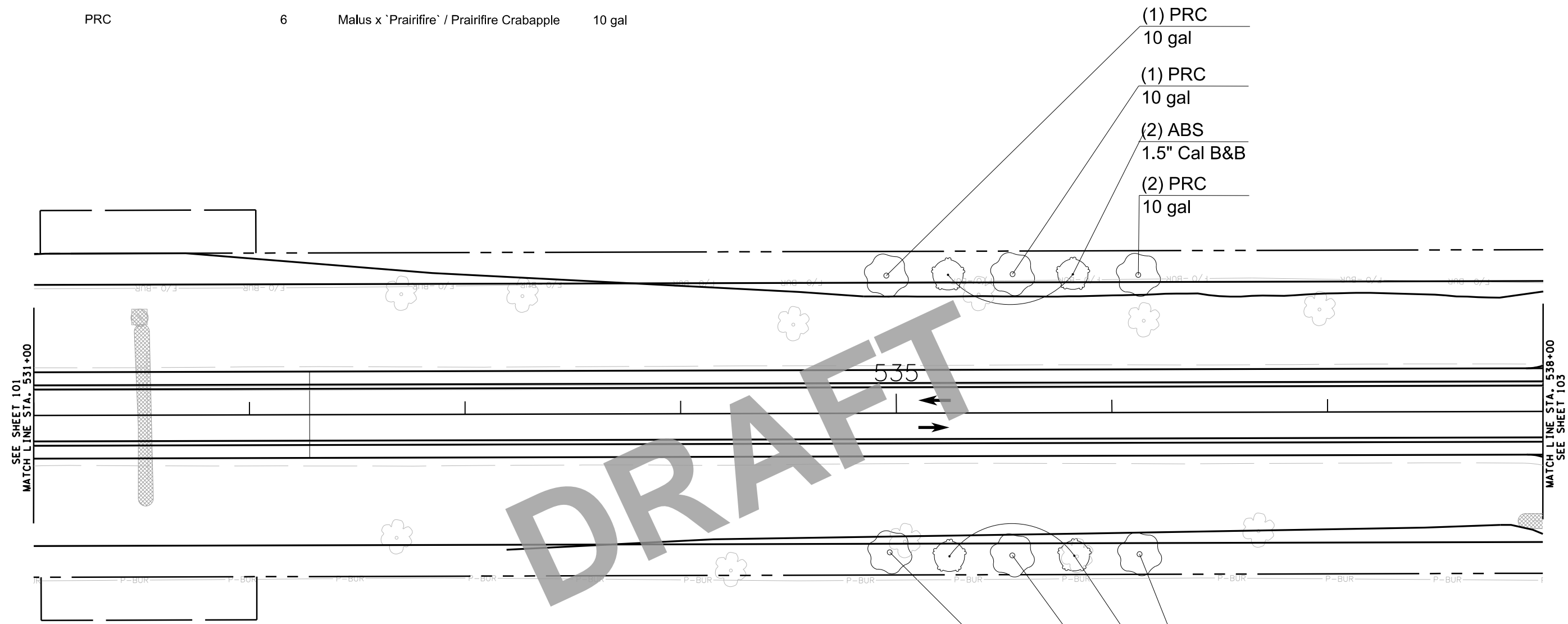

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 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO



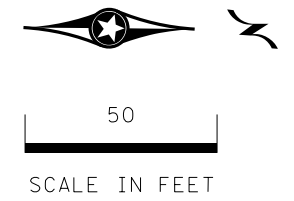
LANDSCAPE PLAN

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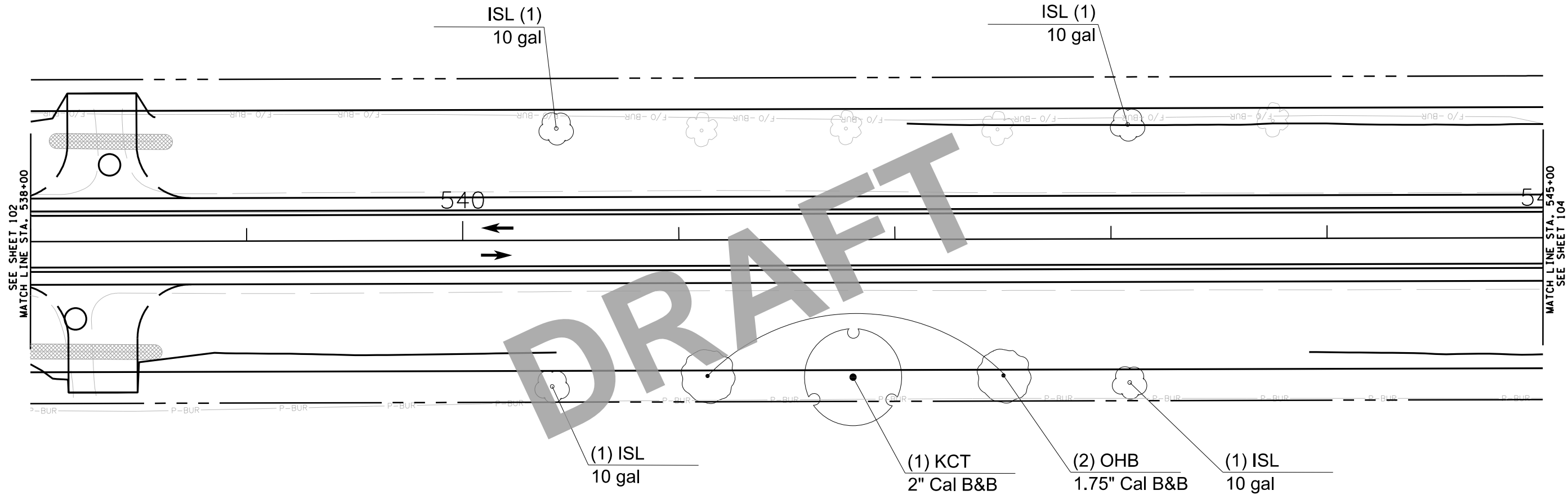
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS 1.5" Cal B&B	4	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal



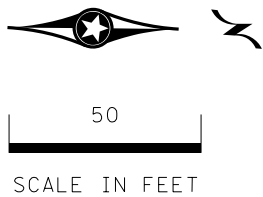
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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
OHB	2	Aesculus glabra / Ohio Buckeye	1.75" Cal B&B
KCT	1	Gymnocladus dioica / Kentucky Coffeetree	2" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ISL	4	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal

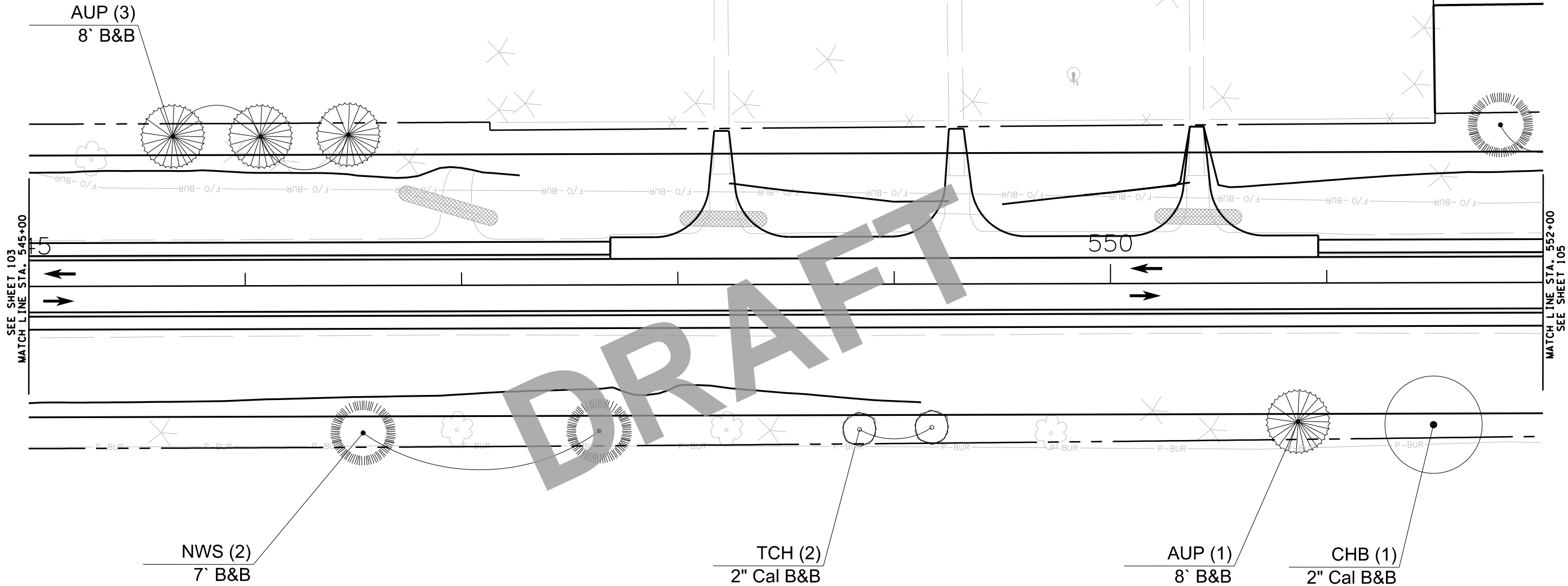


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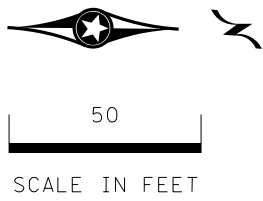




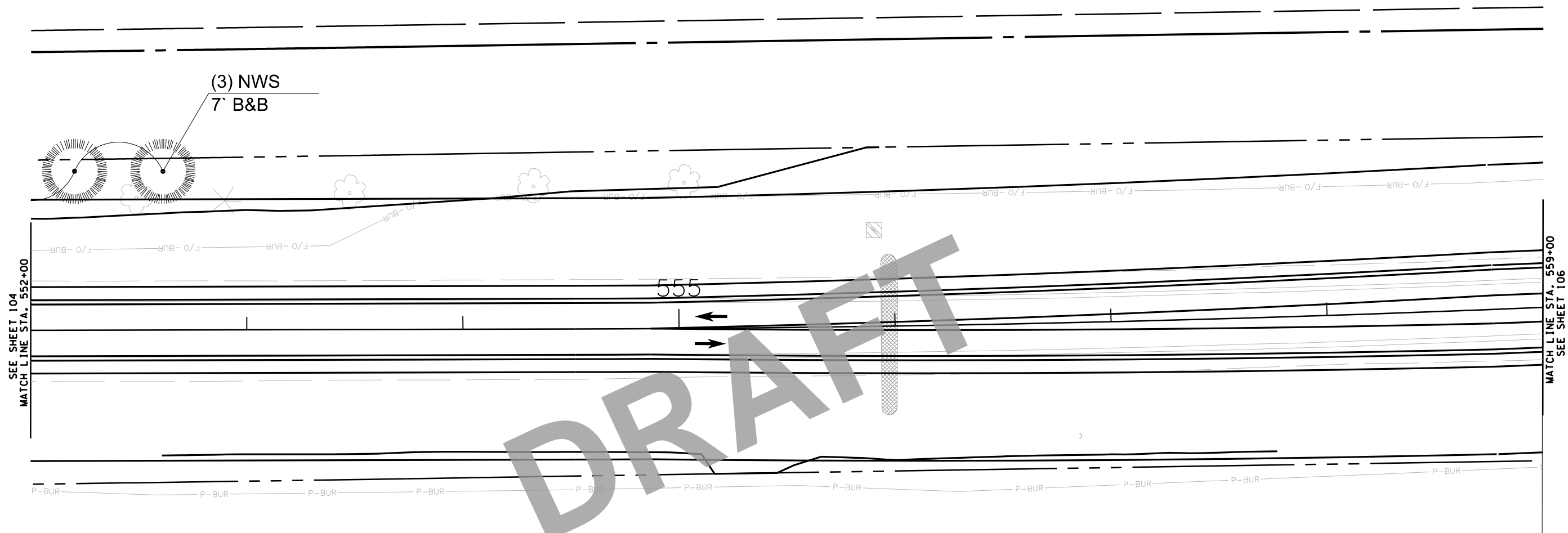
TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
CHB	1	Celtis occidentalis / Common Hackberry	2" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	3	Picea abies / Norway Spruce	7' B&B
AUP	4	Pinus nigra / Austrian Pine	8' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	2	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B



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CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	2	Picea abies / Norway Spruce	7' B&B



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50  
 SCALE IN FEET

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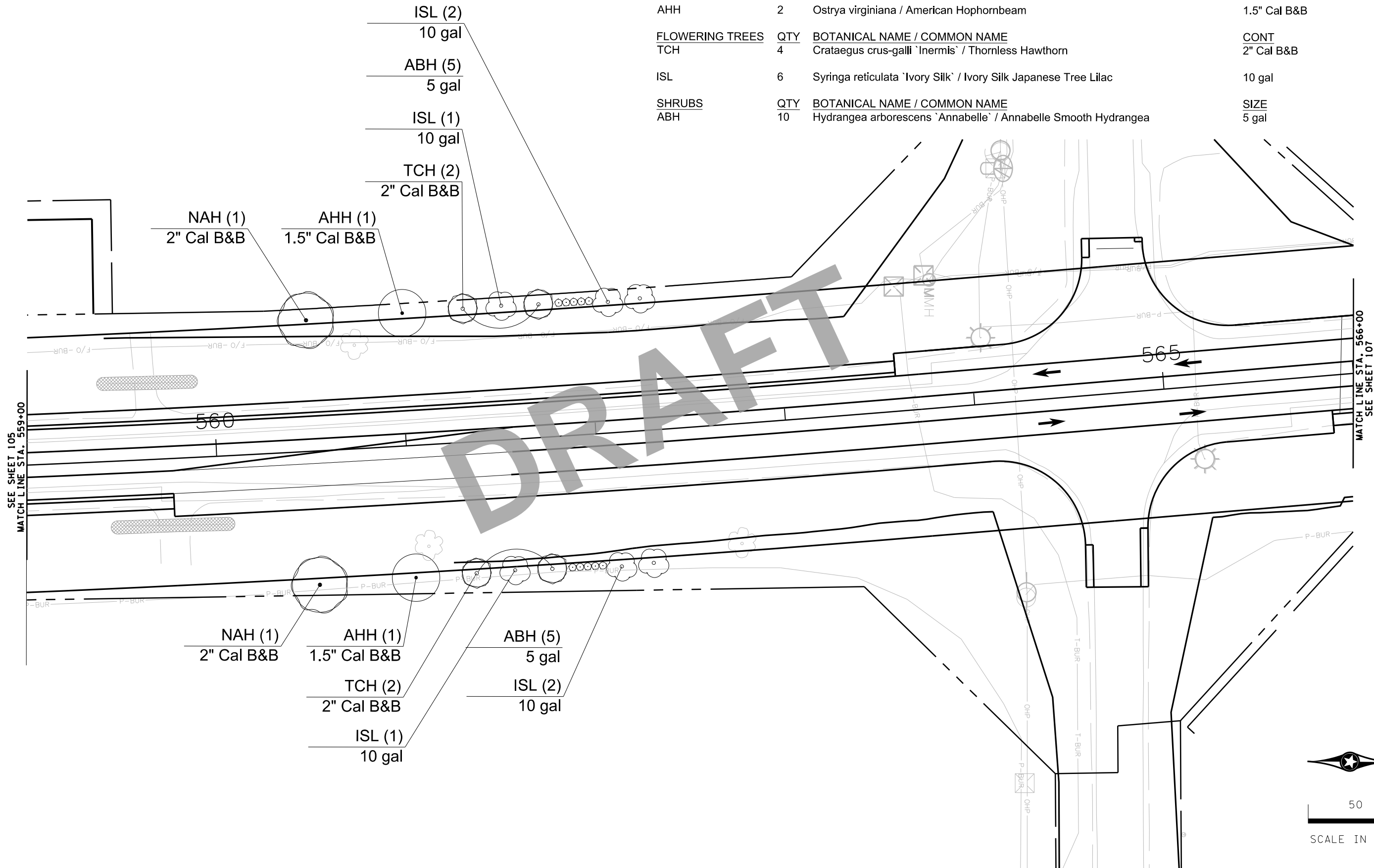


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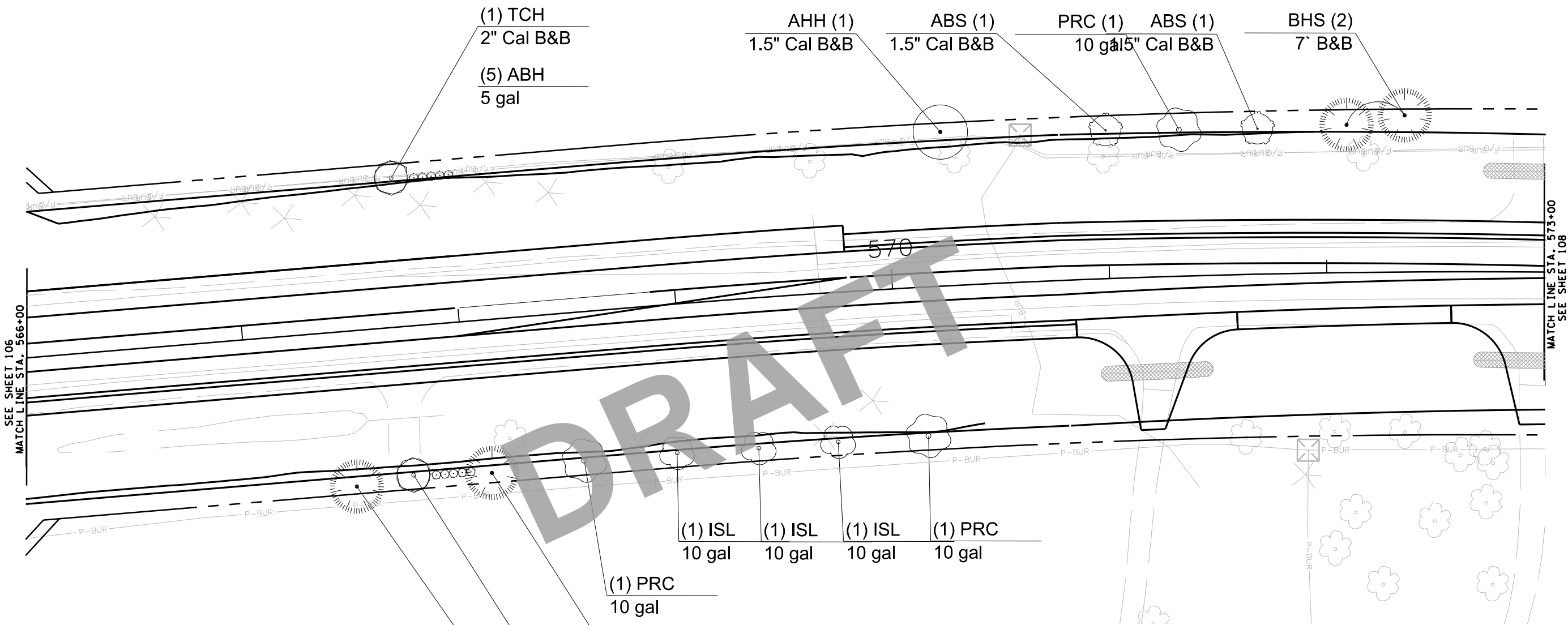
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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
NAH	2	Gleditsia triacanthos inermis 'Harve' TM / Northern Acclaim Thornless Honey Locust	2" Cal B&B
AHH	2	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
TCH	4	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
ISL	6	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
ABH	10	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal



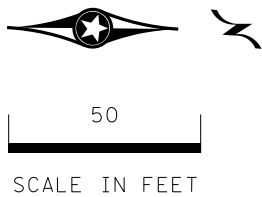
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- (1) PRC  
10 gal
- (1) BHS  
7' B&B
- (5) ABH  
5 gal
- (1) TCH  
2" Cal B&B
- (1) BHS  
7' B&B

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	4	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	2	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
TCH	2	Crataegus crus-galli 'Inermis' / Thornless Hawthorn	2" Cal B&B
PRC	3	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
ISL	3	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
ABH	10	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal



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**DESIGNED BY:** CCA  
**CHECKED BY:** CCA

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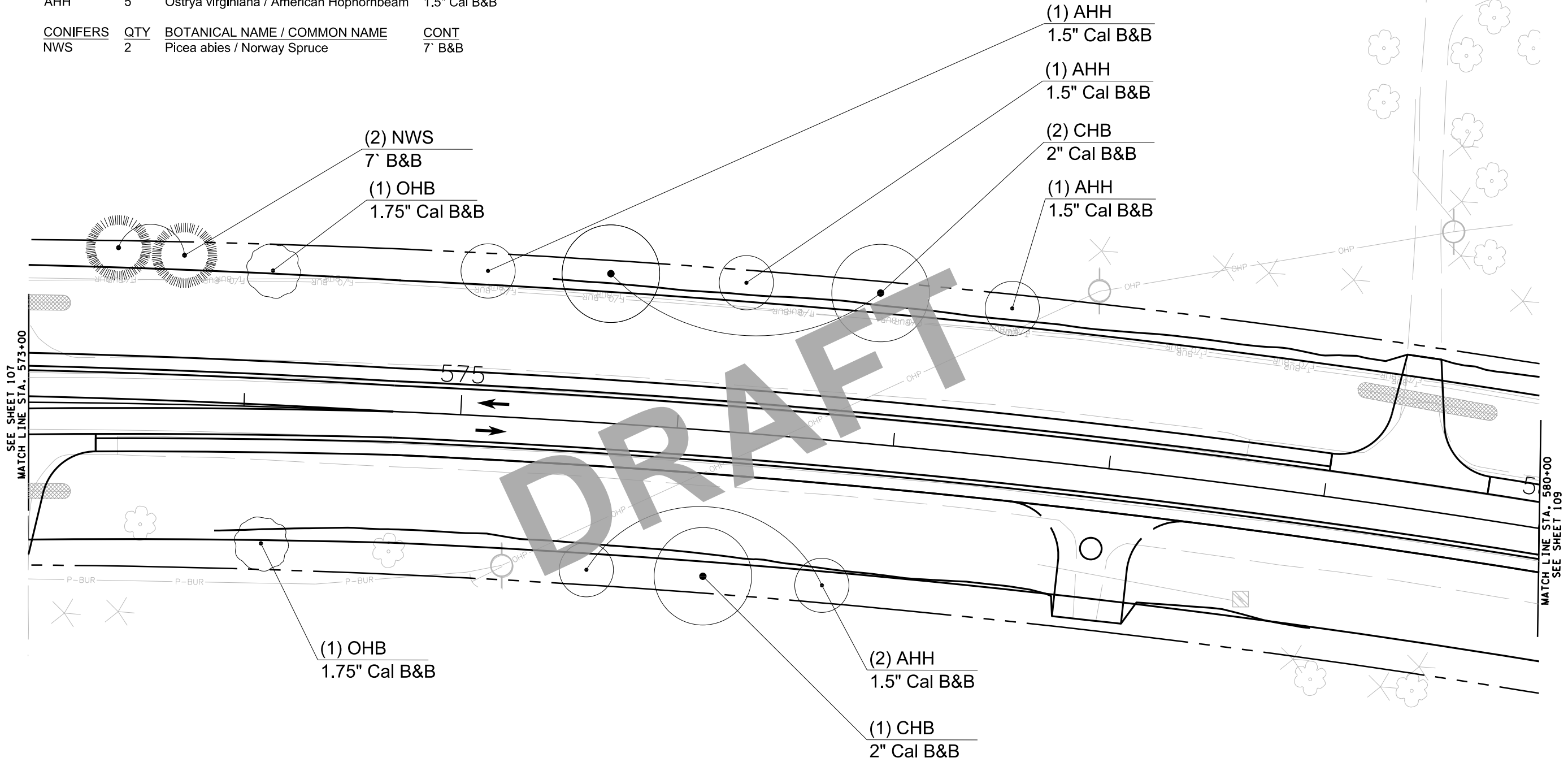
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 CITY OF MAPLETON TO MANKATO



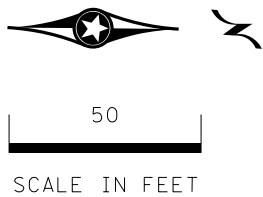
LANDSCAPE PLAN

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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
OHB	2	Aesculus glabra / Ohio Buckeye	1.75" Cal B&B
CHB	4	Celtis occidentalis / Common Hackberry	2" Cal B&B
AHH	5	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
NWS	2	Picea abies / Norway Spruce	7' B&B

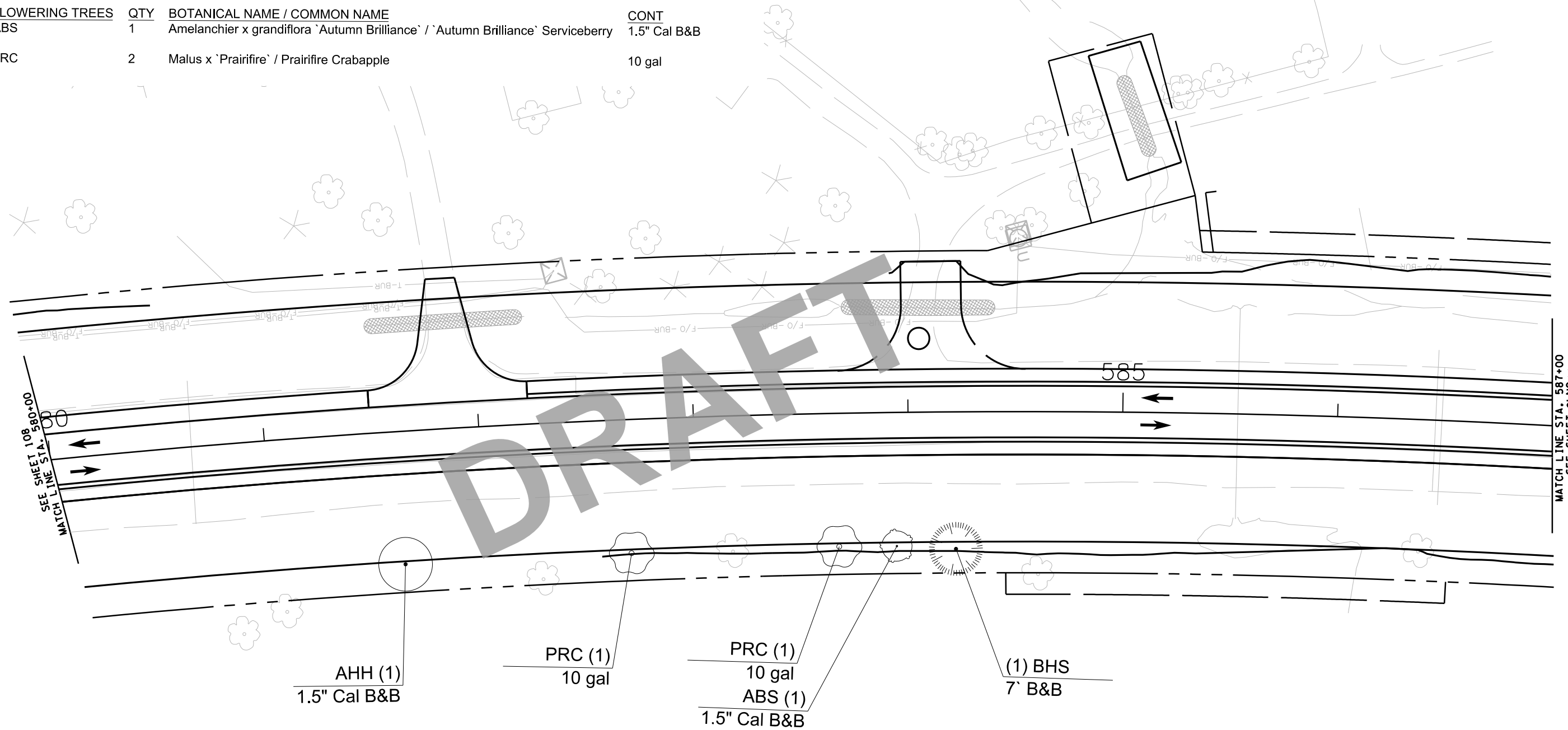


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TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
AHH	1	Ostrya virginiana / American Hophornbeam	1.5" Cal B&B
CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	1	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ABS	1	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	1.5" Cal B&B
PRC	2	Malus x 'Prairifire' / Prairifire Crabapple	10 gal



DATE: 7/28/2017 TIME: 9:32:53 AM  
 FILENAME: K:\03265-010\Cad\Plan\cd704100\_1n071.dgn

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**DESIGNED BY:** CCA  
**CHECKED BY:** CCA

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SIGNATURE: \_\_\_\_\_  
 PRINTED NAME: CANDACE C. AMBERG  
 DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO

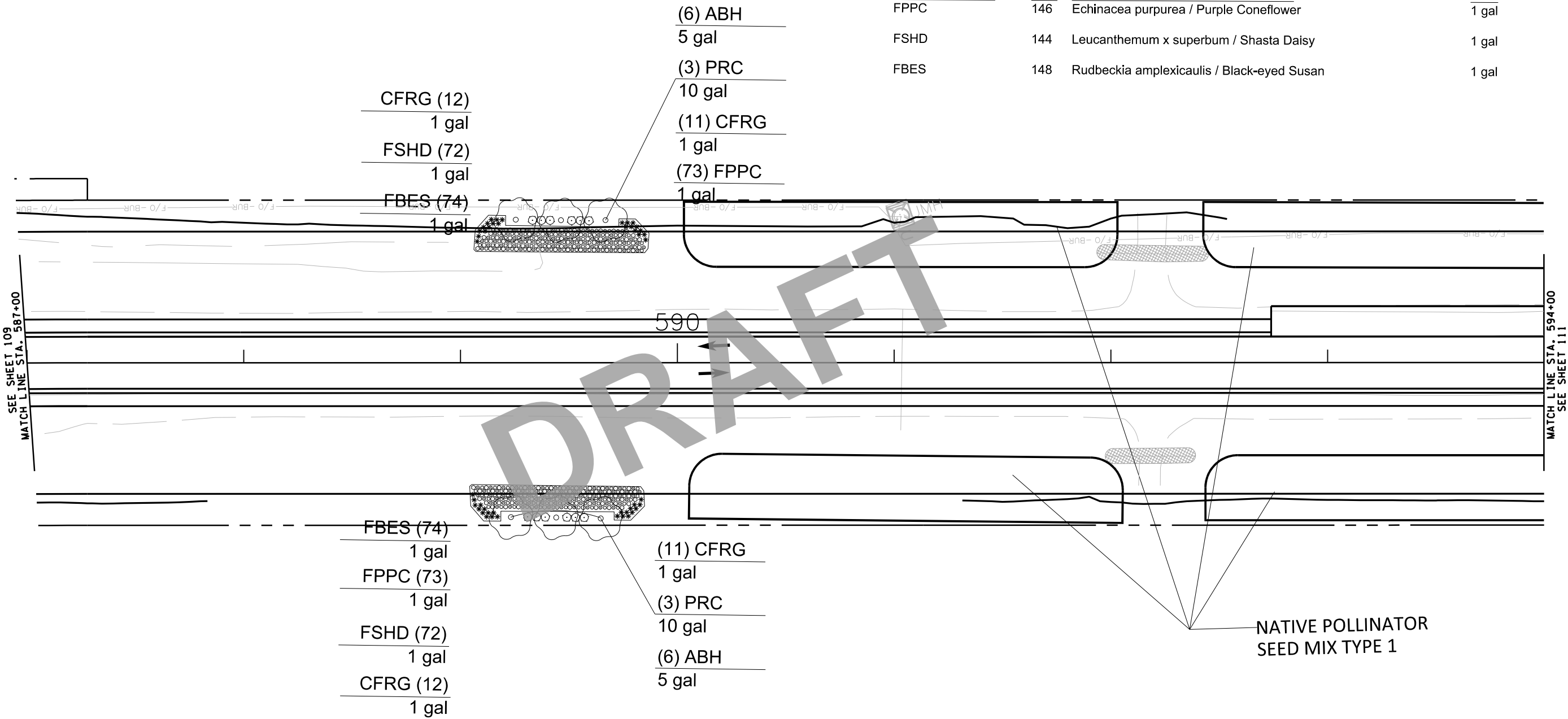


LANDSCAPE PLAN

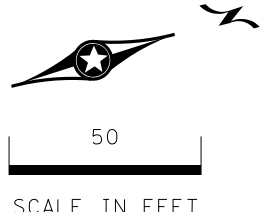
STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 109 of 133 Sheets

DATE: 7/28/2017 TIME: 9:32:54 AM  
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FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
CFRG	46	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	1 gal
ABH	12	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal
NATIVE SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
FPPC	146	Echinacea purpurea / Purple Coneflower	1 gal
FSHD	144	Leucanthemum x superbum / Shasta Daisy	1 gal
FBES	148	Rudbeckia amplexicaulis / Black-eyed Susan	1 gal



DRAFT

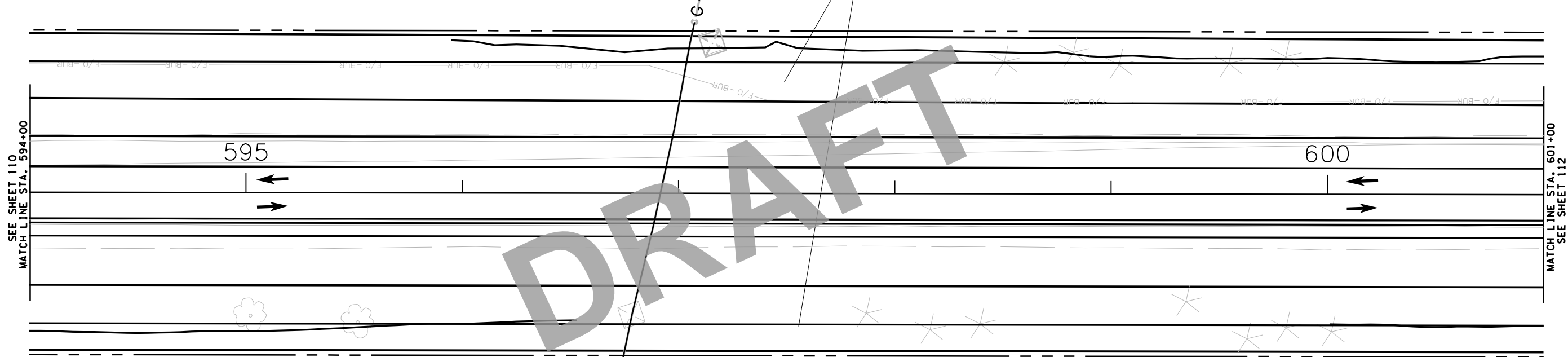




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FILENAME: K:\03265-010\Cad\Plan\cd704100\_in073.dgn

WARNING  
MAGELLAN PIPELINE

NATIVE POLLINATOR  
SEED MIX TYPE 1



50  
SCALE IN FEET

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SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



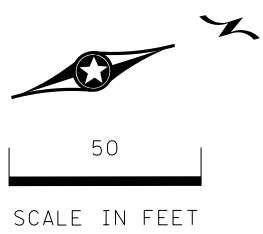
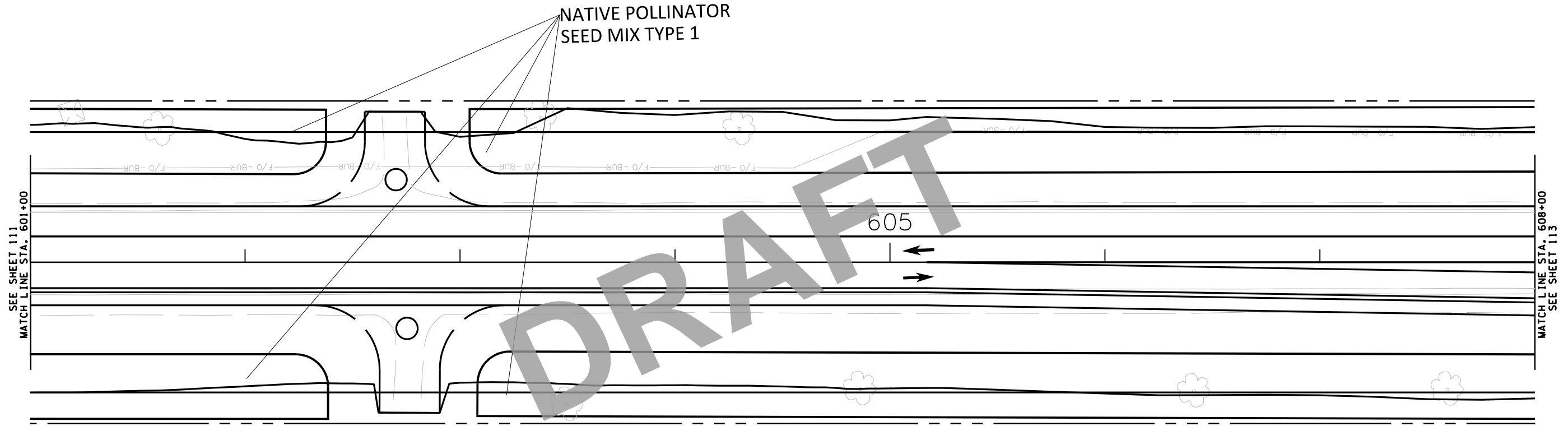
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 111 of 133 Sheets

DATE: 7/28/2017 TIME: 9:32:57 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_in074.dgn



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PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 112 of 133 Sheets

FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
PRC	6	Malus x 'Prairifire' / Prairifire Crabapple	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
CFRG	46	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	1 gal
ABH	12	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal
NATIVE SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
FPPC	146	Echinacea purpurea / Purple Coneflower	1 gal
FSHD	144	Leucanthemum x superbum / Shasta Daisy	1 gal
FBES	148	Rudbeckia amplexicaulis / Black-eyed Susan	1 gal

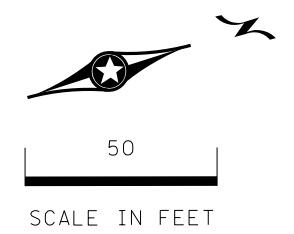
NATIVE POLLINATOR  
SEED MIX TYPE 1

- CFRG (12)  
1 gal
- FSHD (72)  
1 gal
- FBES (74)  
1 gal
- (6) ABH  
5 gal
- (3) PRC  
10 gal
- (11) CFRG  
1 gal
- (73) FPPC  
1 gal



- FBES (74)  
1 gal
- FPPC (73)  
1 gal
- FSHD (72)  
1 gal
- CFRG (12)  
1 gal
- (11) CFRG  
1 gal
- (3) PRC  
10 gal
- (6) ABH  
5 gal

DATE: 7/28/2017 TIME: 9:32:58 AM  
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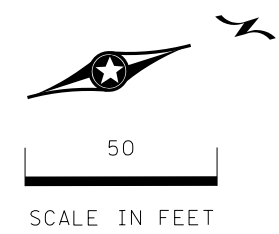


FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ISL	4	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
ABH	5	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal

ISL (2)  
10 gal

ABH (5)  
5 gal

ISL (2)  
10 gal



DRAFT

SEE SHEET 113  
MATCH LINE STA. 615+00

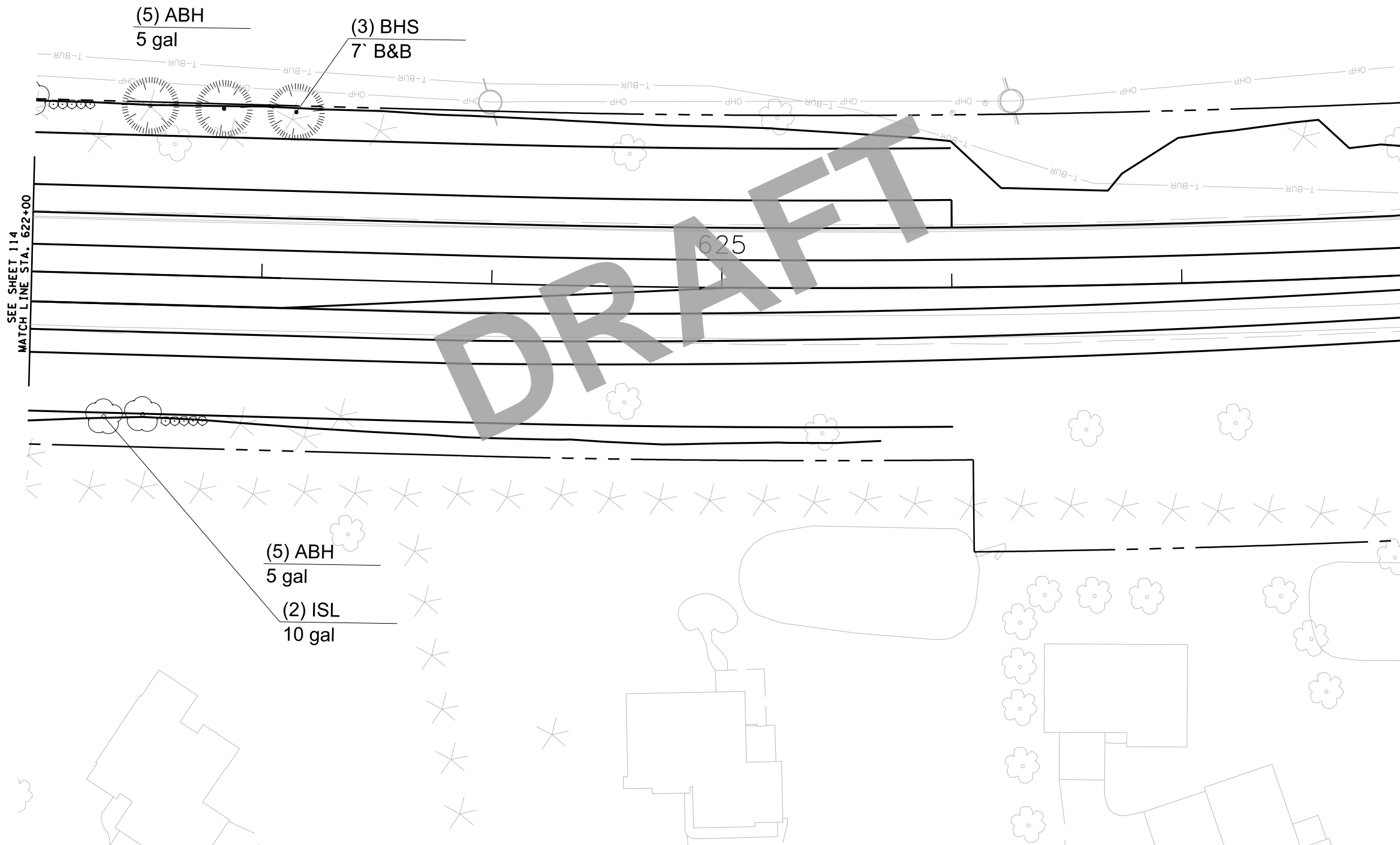
MATCH LINE STA. 622+00  
SEE SHEET 115

620

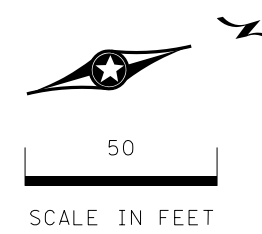
DATE: 7/28/2017 TIME: 9:33:00 AM  
FILENAME: K:\03265-010\Cad\Plan\cd704100\_in076.dgn

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CONIFERS	QTY	BOTANICAL NAME / COMMON NAME	CONT
BHS	3	Picea glauca 'Densata' / Black Hills Spruce	7' B&B
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
ISL	2	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	10 gal
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
ABH	10	Hydrangea arborescens 'Annabelle' / Annabelle Smooth Hydrangea	5 gal



DATE: 7/28/2017 TIME: 9:33:01 AM  
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 DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO



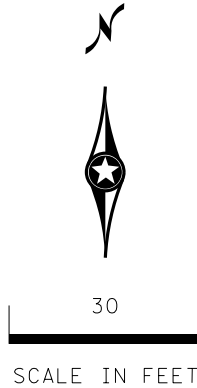
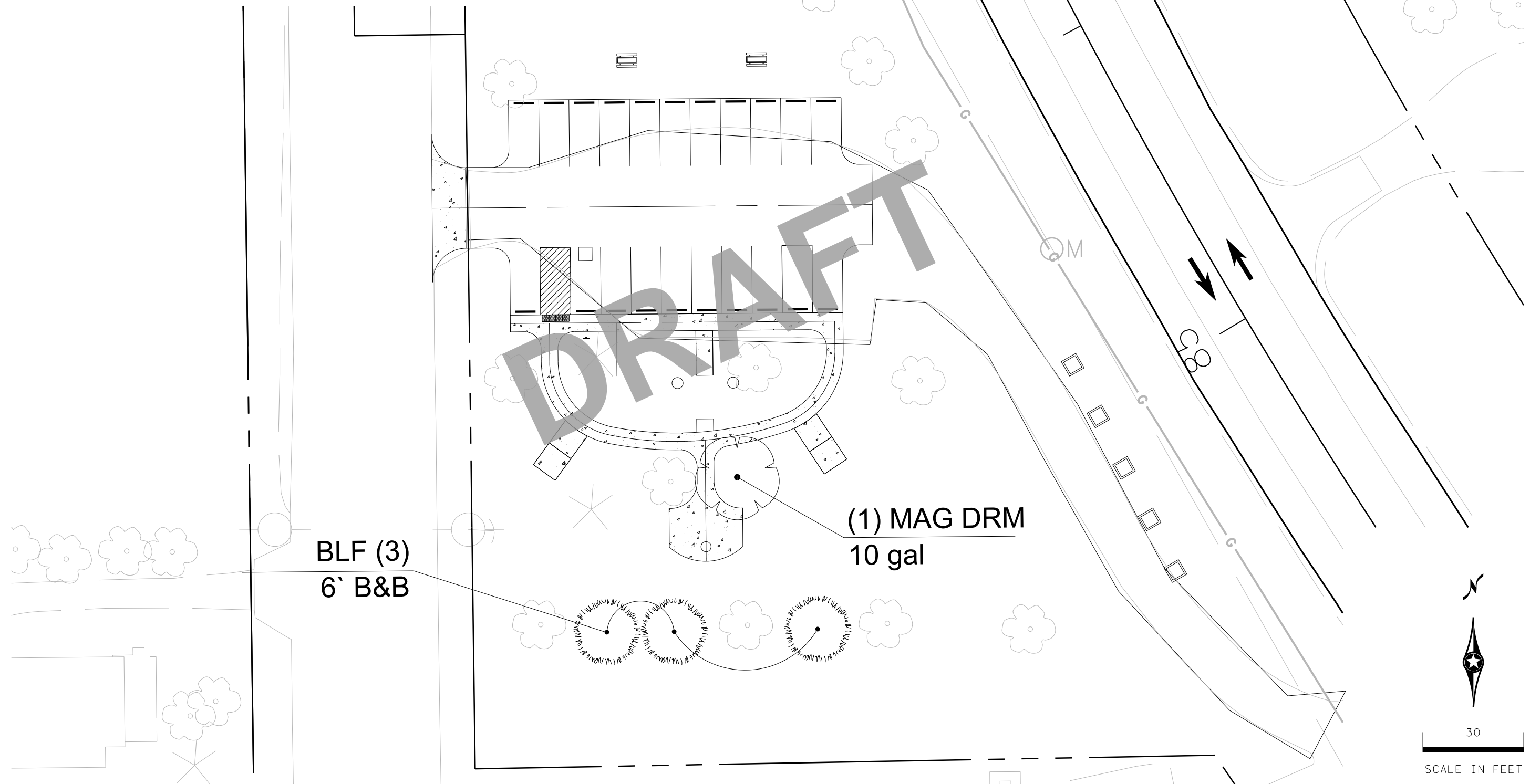
LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 115 of 133 Sheets

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
BLF	3	Abies balsamea / Balsam Fir	6' B&B

FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT
MAG DRM	1	Magnolia x loebneri `Dr. Merrill` / Magnolia	10 gal

DATE: 7/28/2017 TIME: 9:53:46 AM  
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DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO

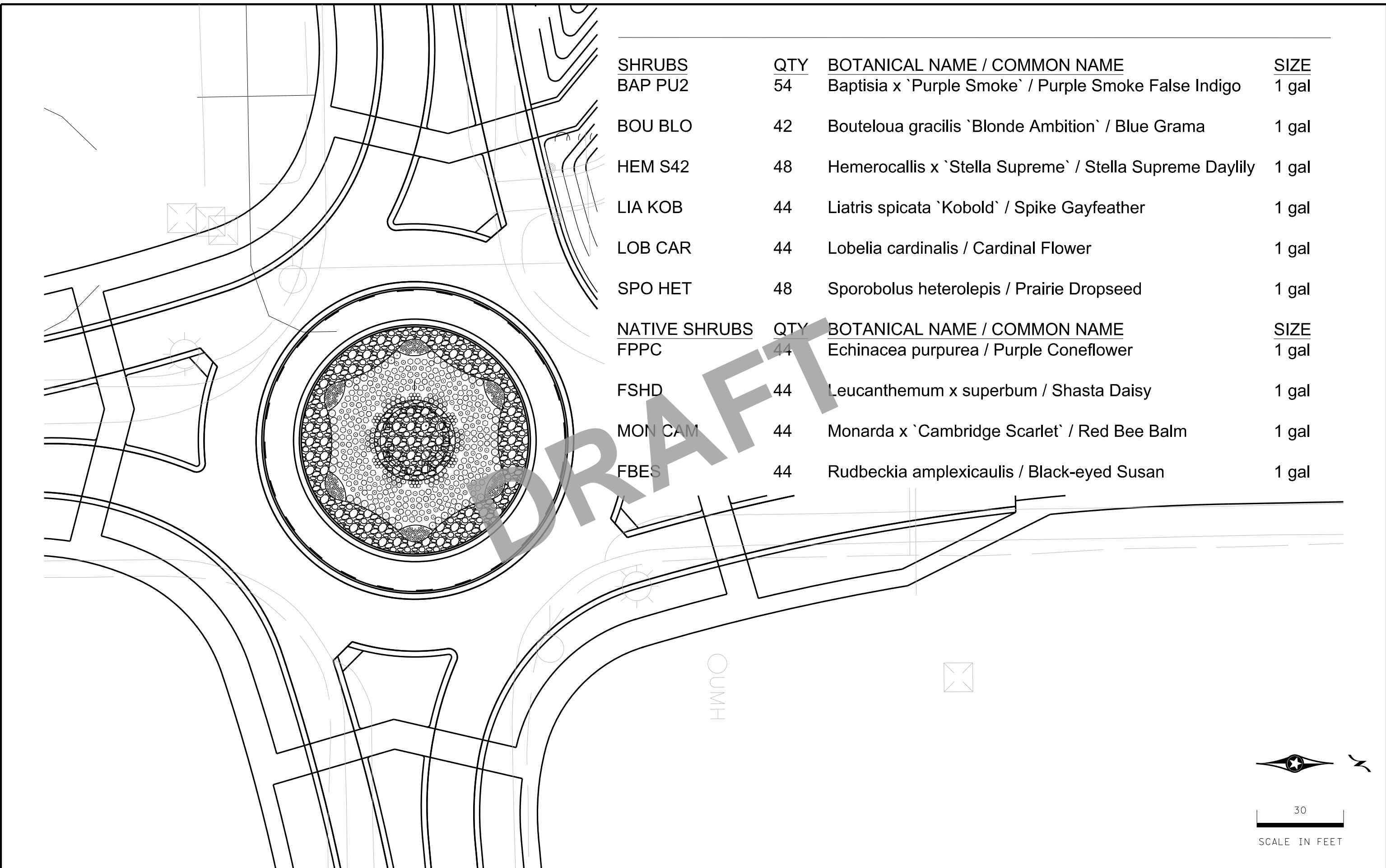


LANDSCAPE PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
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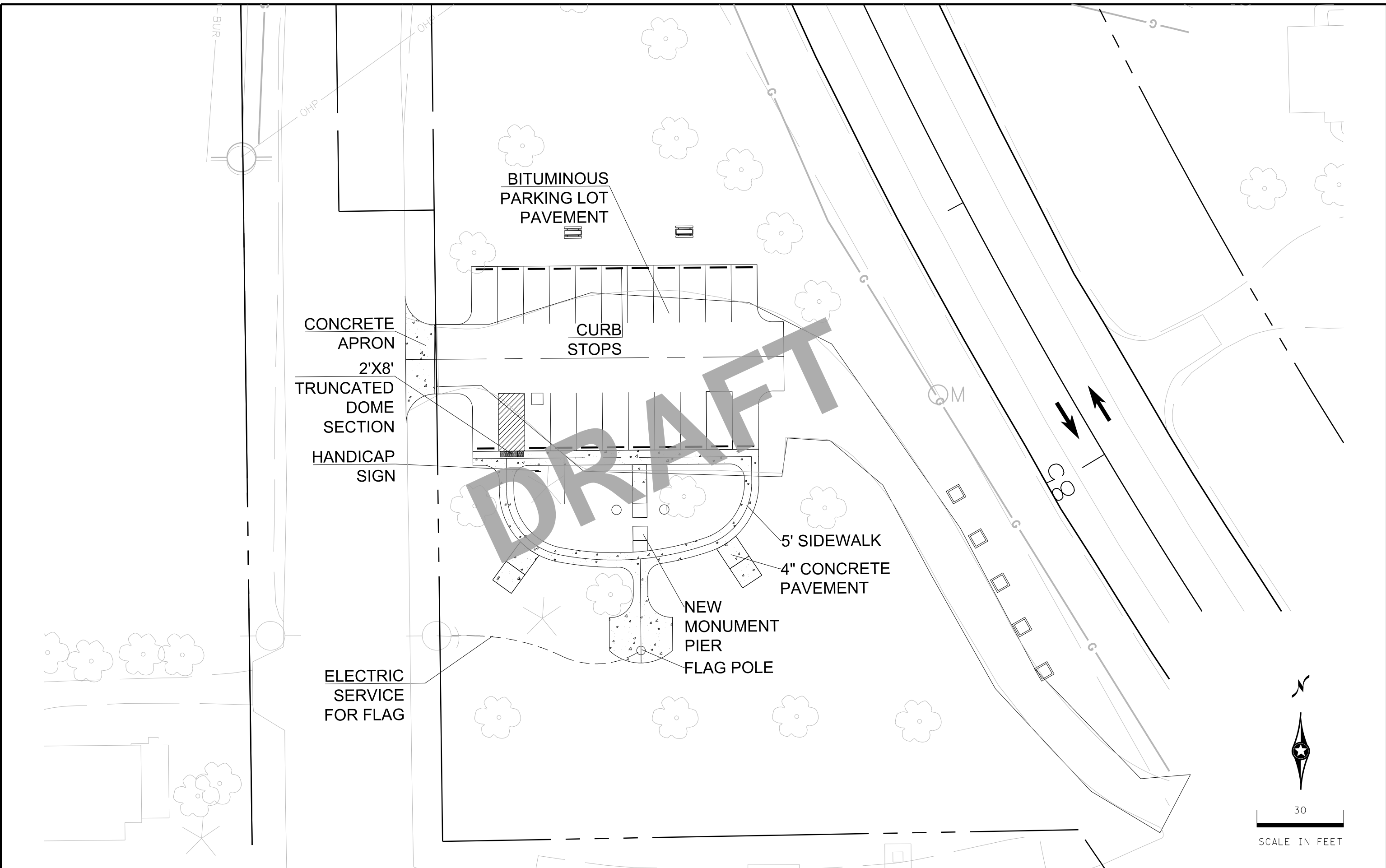
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
BAP PU2	54	Baptisia x `Purple Smoke` / Purple Smoke False Indigo	1 gal
BOU BLO	42	Bouteloua gracilis `Blonde Ambition` / Blue Grama	1 gal
HEM S42	48	Hemerocallis x `Stella Supreme` / Stella Supreme Daylily	1 gal
LIA KOB	44	Liatris spicata `Kobold` / Spike Gayfeather	1 gal
LOB CAR	44	Lobelia cardinalis / Cardinal Flower	1 gal
SPO HET	48	Sporobolus heterolepis / Prairie Dropseed	1 gal
NATIVE SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE
FPPC	44	Echinacea purpurea / Purple Coneflower	1 gal
FSHD	44	Leucanthemum x superbum / Shasta Daisy	1 gal
MON CAM	44	Monarda x `Cambridge Scarlet` / Red Bee Balm	1 gal
FBES	44	Rudbeckia amplexicaulis / Black-eyed Susan	1 gal



30  
 SCALE IN FEET



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PRINTED NAME: CANDACE C. AMBERG  
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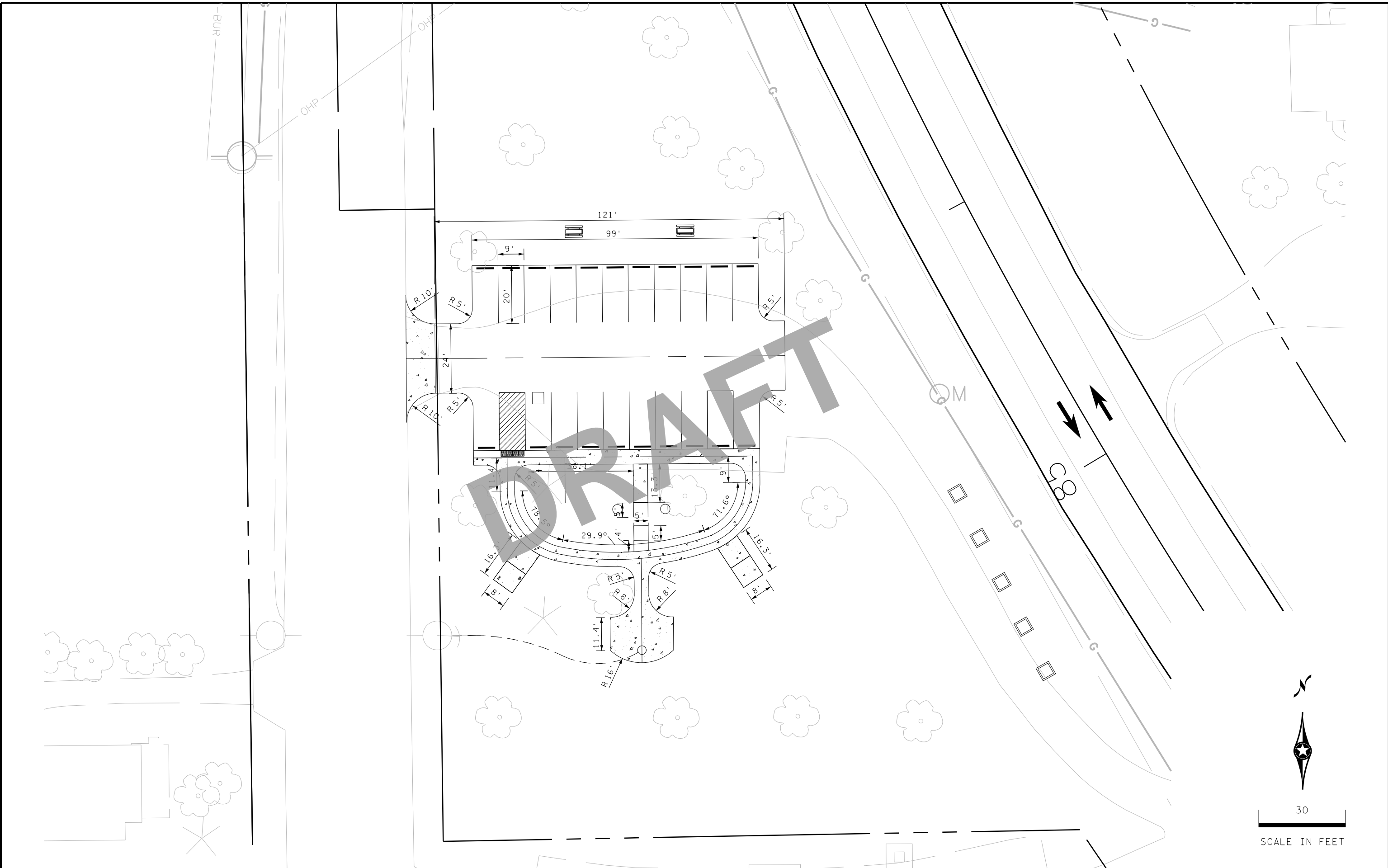
MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO



LAYOUT PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 118 of 133 Sheets

DATE: 7/28/2017 TIME: 11:07:13 AM  
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DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE  
CITY OF MAPLETON TO MANKATO

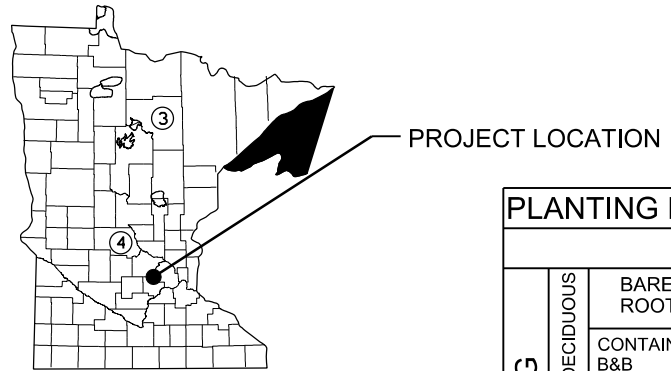


LAYOUT PLAN

STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 119 of 133 Sheets

DATE: 7/28/2017 TIME: 9:33:12 AM  
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GENERAL NOTES		
SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS.		
REFER TO MnDOT SPECIFICATIONS 2571, 3861, AND THE INSPECTION AND CONTRACT ADMINISTRATION MANUAL FOR MnDOT LANDSCAPE PROJECTS" FOR GENERAL REQUIREMENTS.		
COMPLETE PREPARATORY WORK BEFORE STARTING INITIAL PLANTING OPERATIONS.		
ACCEPT ALL PLANT STOCK IN ACCORDANCE WITH (MnDOT 3861) PRIOR TO PLANTING.		
THE CONTRACTOR WILL DEMONSTRATE COMPETENCY FOR SOIL CULTIVATION OPERATIONS IN ACCORDANCE WITH (MnDOT 2571.3D2 STEP 4)		
THE CONTRACTOR WILL DEMONSTRATE COMPETENCY FOR ALL PLANT INSTALLATION OPERATIONS IN ACCORDANCE WITH (MnDOT 2571.3F1)		
RODENT PROTECTION	SEE SPECIAL PROVISIONS AND STANDARD PLANTING DETAILS (C)	
FERTILIZER	SEE SPECIAL PROVISIONS	
COMPOST	MnDOT 3890 GRADE 2 UNLESS OTHERWISE SPECIFIED.	
MULCH MATERIAL	MnDOT 3882 TYPE 6 UNLESS OTHERWISE SPECIFIED.	
MASS PLANTING BEDS	PREPARE MASS PLANTING BEDS FOR PLANTS PLACED AT ___ OR LESS, UNLESS OTHERWISE SPECIFIED ON SHEETS. PLANT BEDS IN STAGGERED ROWS ON THE PERIMETER FIRST, THEN UNIFORMLY FILL IN WITH REMAINING PLANTS. USE TRIANGULAR SPACING, UNLESS SPECIFIED OTHERWISE. PROVIDE 5' RADIUS CLEAR OF SHRUBS AROUND EACH DECIDUOUS TREE AND 8' CLEAR RADIUS AROUND EACH CONIFER TREE. RADIUS WILL BE MEASURED FROM THE CENTER OF THE TREE TO THE CENTER OF THE SHRUB. NOTIFY ENGINEER OF GROSS PLANT QUANTITY SURPLUS OR DEFICIENCY IMMEDIATELY. MULCH ENTIRE MASS PLANTING BED. SEE STANDARD PLANTING DETAILS (C)	
TREE PAINTING (FROST CRACK PREVENTION)	PAINT OAK, LINDEN, LOCUST, MAPLE, CRABAPPLE AND MOUNTAIN ASH. ONLY UNDILUTED EXTERIOR WHITE LATEX PAINT IS ACCEPTABLE. PAINT TREE CIRCUMFERENCE FROM GROUND LINE TO FIRST MAJOR BRANCH.	
PLANTING PLAN DIMENSIONS	STATED DIMENSIONS SUPERCEDE SCALING FROM PLAN.	
WATERING GUIDELINES (MnDOT 2571.3G)	PLANT TYPE	AVERAGE GALLONS OF WATER PER APPLICATION
	MACHINE TRANSPLANTED TREES	50-100
	BALLED AND BURLAPPED TREES	20
	BARE ROOT AND CONTAINER TREES	15
	BALLED AND BURLAPPED SHRUBS	10
	BARE ROOT AND CONTAINER SHRUBS	7
	WOODY SEEDLINGS	4
	PERENNIALS AND VINES	3
IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR AND MAINTAIN SOIL MOISTURE AT ADEQUATE BUT NOT EXCESSIVE LEVELS. THE AMOUNTS LISTED ABOVE ARE GUIDELINES, NOT REQUIREMENTS.		

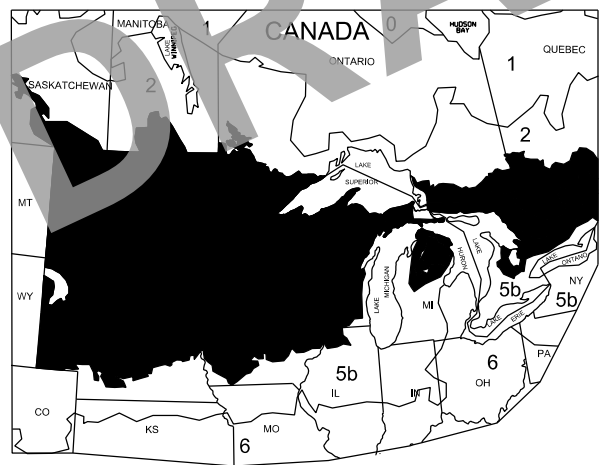


- PROJECT LOCATION**
1. BARE ROOT PERENNIALS MUST BE INSTALLED IN THE SPRING NO LATER THAN JUNE 1ST OR FOLLOW THE FALL DECIDUOUS PLANTING DATES.
  2. ACTUAL DATES MAY CHANGE DEPENDING UPON SEASONAL CONDITIONS, AS DETERMINED BY THE ENGINEER.
  3. FALL PLANTING IS NOT ALLOWED FOR BARE ROOT FORM OF THE FOLLOWING SPECIES: HAWTHORN, DOGWOOD, POPLAR, HACKBERRY, LINDEN, IRONWOOD, HONEYLOCUST, BIRCH, MOUNTAIN ASH, MAPLE, WILLOW, CRABAPPLE, PLUM/CHERRY, OAKS, AND SUMAC.
  4. ALL REPLACEMENT PLANTS MUST BE INSTALLED DURING THE MONTH OF MAY (SPRING PLANTING) AND SEPTEMBER (FALL PLANTING) DURING THE FIRST YEAR OF THE PLANT ESTABLISHMENT PERIOD.
  5. MACHINED MOVED PLANTING DATES WILL BE SPECIFIED IN THE SPECIAL PROVISIONS.

		③		④	
SPRING	DECIDUOUS BARE ROOT	APRIL 21 TO JUNE 1	APRIL 7 TO JUNE 1		
	CONTAINER B&B	APRIL 21 TO JUNE 30	APRIL 7 TO JUNE 30		
	CONIFEROUS	APRIL 30 TO JUNE 1	APRIL 7 TO MAY 17		
	PERENNIALS	MAY 1 TO JUNE 30	MAY 1 TO JUNE 30		
FALL	DECIDUOUS BARE ROOT	OCT. 1 TO NOV. 1	OCT. 10 TO NOV. 15		
	CONTAINER B&B	AUG. 25 TO OCT. 15	AUG. 25 TO NOV. 1		
	CONIFEROUS	AUG. 25 TO SEPT. 15	AUG. 25 TO SEPT. 15		
	PERENNIALS	AUG. 25 TO SEPT. 15	AUG. 25 TO SEPT. 15		

**PLANT INSTALLATION PERIOD**

(MnDOT 2571.3F2)



ACCEPTABLE ZONES		
ZONES	LEGEND	MIN. TEMP.
3		-34.4° TO -40 F°
4		-28.9° TO -34.4 F°
5a		-26.1° TO -28.9 F°

UNACCEPTABLE ZONES	
ZONES	LEGEND
0, 1, 2, 5b and 6	

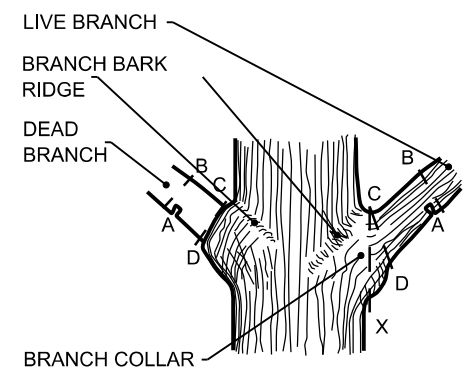
FOR ALL PLANT STOCK, DOCUMENT ACCEPTABILITY FOR HARDINESS IN THE MINNESOTA ZONE WHERE THE PROJECT SITE IS LOCATED, AS FOLLOWS:

- A. PLANT STOCK CONTINUOUSLY GROWN FOR AT LEAST THE LAST TWO YEARS WITHIN THE ACCEPTABLE LIMITS SHOWN.
- OR
- B. PLANT STOCK, GROWN OUTSIDE THE ACCEPTABLE GROWING RANGE LIMITS, HAVING SEED SOURCE OR ROOT AND GRAFT STOCK ORIGINATING FROM THE ACCEPTABLE LIMITS SHOWN.

**ACCEPTABLE PLANT STOCK GROWING RANGE LIMITS**

SOURCE: USDA PLANT HARDINESS ZONE MAP

(MnDOT 3861.2C)

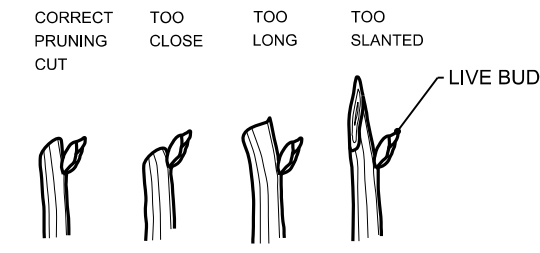


- STEPS TO PRUNING WITH PRUNING SAW:**
1. CUT PART WAY THROUGH THE BRANCH AT POINT A.
  2. CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
  3. AT BRANCH COLLAR CUT FROM POINT C TO D.

INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

**BRANCHES PRUNED AT TRUNK (SHIGO METHOD)**

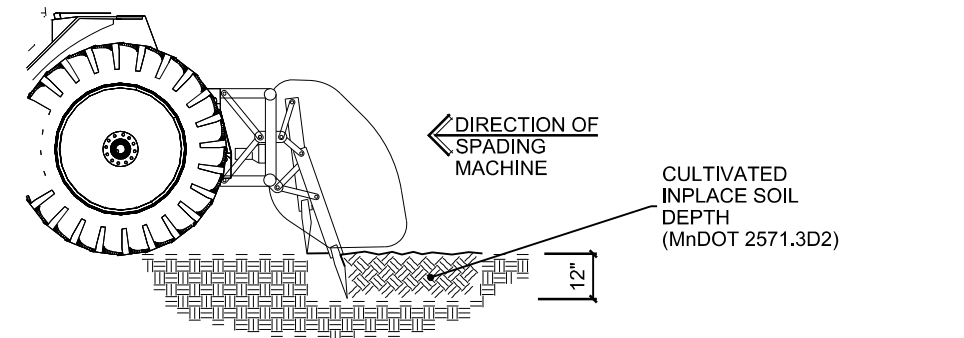


- PRUNING NOTES:**
1. PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.
  2. THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
  3. AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
  4. IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

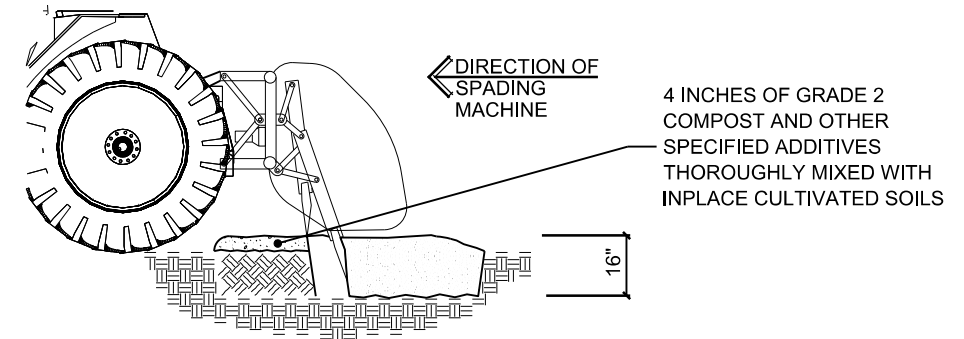
**BRANCHES PRUNED TO LIVE BUD**

**PRUNING**

(MnDOT 2571.3K2a9 and 2571.3E1)



**PRIMARY TILLAGE - PASS 1**



**INCORPORATION TILLAGE - PASS 2**

**PLANTING SOIL**

(MnDOT 2571.3D2)

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<b>DESIGNED BY:</b> CCA		PRINTED NAME: CANDACE C. AMBERG
<b>CHECKED BY:</b> CCA		DATE: 7/28/2017 LIC. NO. 40646

**MINNESOTA DEPARTMENT OF TRANSPORTATION**  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO

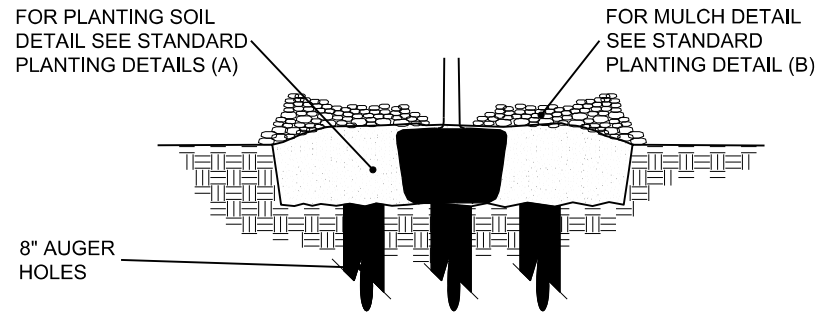


**MISCELLANEOUS DETAILS**

**STATE PROJ. NO. 0704-110 (T.H. 22)**  
**Sheet No. 120 of 133 Sheets**

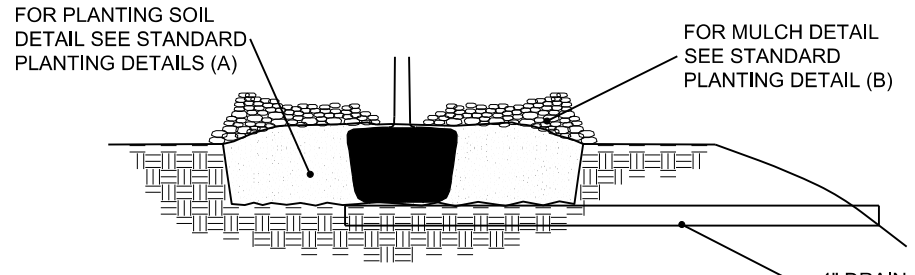


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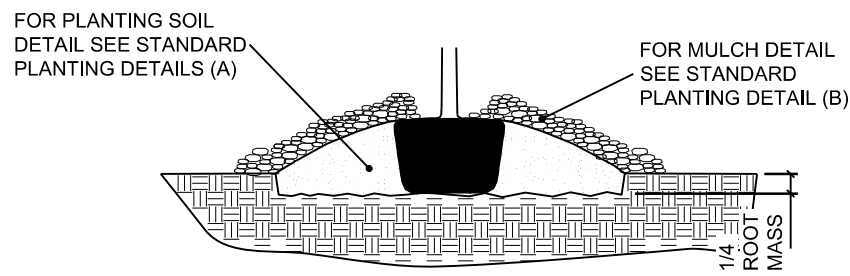
- EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.
- AUGER 8" DIAMETER HOLES ENTIRELY THROUGH IMPERVIOUS OR POORLY DRAINED HARD PAN SOIL LAYER TO ADEQUATELY DRAIN SUBSOIL.
- TEST FOR POSITIVE DRAINAGE. RE-AUGER AN ADDITIONAL 8" IF NECESSARY FOR POSITIVE DRAINAGE.
- THOROUGHLY BACKFILL AUGER HOLES WITH A UNIFORM INCORPORATED MIXTURE OF 50% SAND AND 50% INPLACE SOIL.
- COMPLETE PLANTING ACCORDING TO ROOT TYPE. SEE STANDARD PLANTING DETAILS (B).

**INSTALL GRANULAR FILTER**



- EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF THE ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.
- INSTALL 4" MINIMUM DIAMETER DRAIN TILE DAYLIGHTING AT A LOWER GRADE.
- COMPLETE PLANTING ACCORDING TO ROOT TYPE. SEE STANDARD PLANTING DETAILS (B).

**INSTALL TILE DRAINAGE**



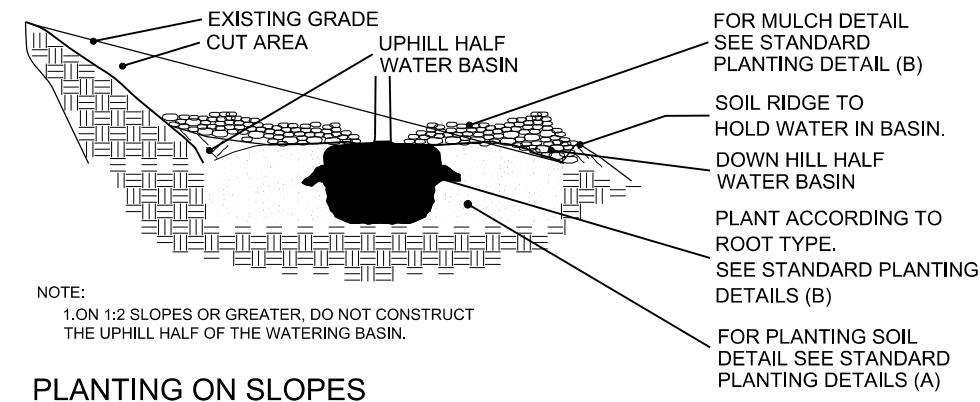
- EXCAVATE HOLE OR BED 1/4 THE DEPTH OF THE ROOT MASS.
- SET ROOT MASS IN HOLE.
- CONSTRUCT BERM WITH PLANTING SOIL. EXTEND THE BERM BASE TO A WIDTH OF 3 TIMES THE BERM HEIGHT.
- COMPLETE PLANTING ACCORDING ROOT TYPE. SEE STANDARD PLANTING DETAILS (B).

**INSTALL MINI-BERM**

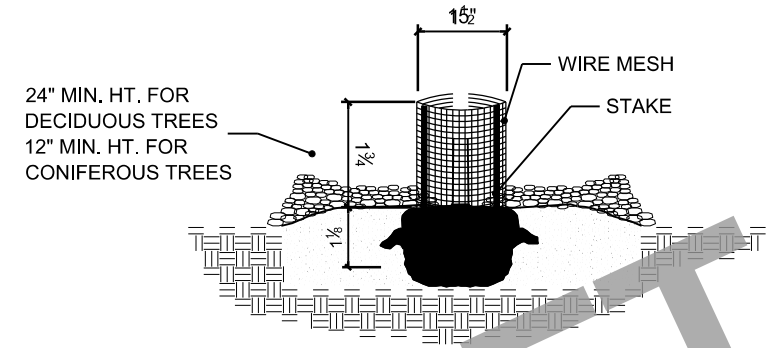
NOTE:  
1. THE NEED FOR USING PLANTING DETAILS FOR POORLY DRAINED SOILS AND WHICH TYPE TO USE ARE DETERMINED BY THE CONTRACTOR, SUBJECT TO ENGINEER APPROVAL.

**PLANTING DETAIL FOR POORLY DRAINED SOILS**

(MnDOT 2571.3D2 (STEP 8))



**PLANTING ON SLOPES**



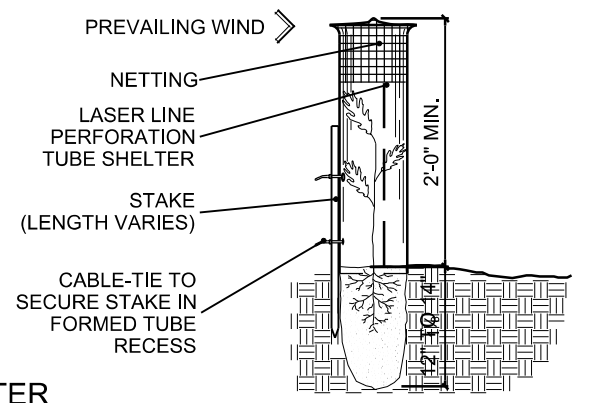
- FORM A DOUBLE-LAYERED CYLINDER USING 0.25" GRID GALVANIZED WELDED WIRE MESH (HARDWARE CLOTH). OVERLAP THE CUT END 2".
- DRIVE TWO 1" x 1" OPPOSING HEARTWOOD WHITE OAK STAKES INTO THE GROUND, 7" FROM THE CENTER OF THE TREE STEM.
- SECURE THE MESH CYLINDER TO THE OUTSIDE OF THE STAKES USING EITHER, SCREWS AND WASHERS OR CABLE-TIES ALONG THE OVERLAP. SPACE APPROXIMATELY 4" ON CENTER ALONG THE OVERLAP.
  - SCREWS SHALL BE ROUND HEAD GALVANIZED 1/8" DIA. x 3/4" LONG WITH WASHERS.
  - CABLE-TIES SHALL BE NYLON, AT LEAST 8" LONG AND BETWEEN 75LB TO 120LB TENSILE STRENGTH.
- EMBED THE LOWER EDGE OF THE MESH CYLINDER 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.
- CUT EDGES WILL NOT BE PERMITTED AT THE TOP OF THE CYLINDER. STAKE WILL BE FLUSH WITH THE TOP OF THE CYLINDER.
- MULCH WITHIN THE CYLINDER SHALL NOT EXCEED 3" DEPTH AND SHALL BE PULLED BACK FROM THE TRUNK AS SPECIFIED IN MULCH PLACEMENT DETAIL.
- THE BOTTOM WHORL OF PINE AND LARCH BRANCHES MAY HAVE TO BE REMOVED TO PERMIT INSTALLATION OF 12" MIN. HEIGHT RODENT GUARDS.
- INSTALL ON ALL DECIDUOUS, PINE AND LARCH TREES, DO NOT PLACE ON SPRUCE TREES.

**RODENT PROTECTION**

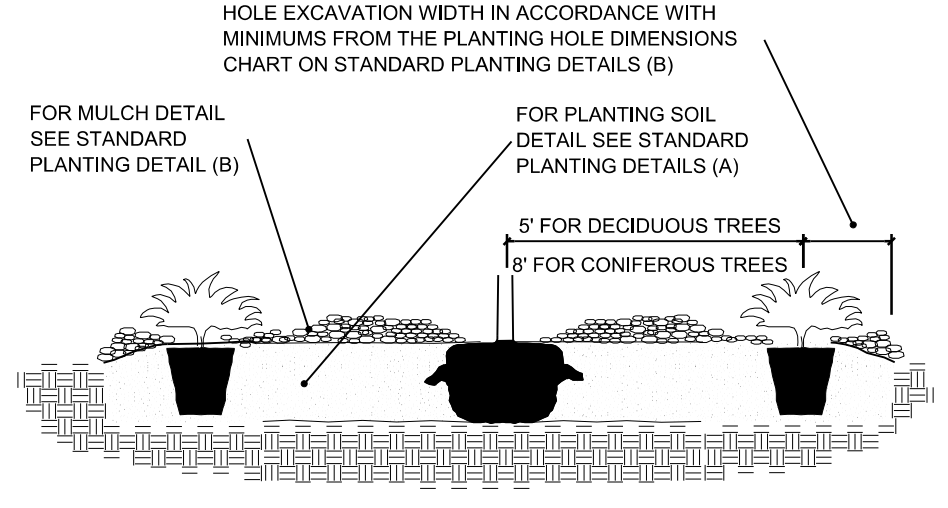
(MnDOT 2571.3I2)

- USE SEAMLESS, EXTRUDED, TWIN-WALL, RIGID AND SEMI TRANSLUCENT POLYPROPYLENE TUBES WITH A LASER LINE PERFORATION AND AN OUTWARD-FLARED TOP RIM.
- SECURE SHELTER WITH NYLON CABLE-TIES ATTACHED TO A 1" x 1" WHITE OAK STAKE TO PREVENT DISLODGING OR TWISTING.
- EMBED THE BOTTOM OF THE TUBE A MINIMUM OF 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.
- INSTALL A PLASTIC PHOTODEGRADABLE NETTING COVER AND SLEEVE OVER THE TOP OF THE TUBE. PULL NETTING DOWN AS SHOWN.

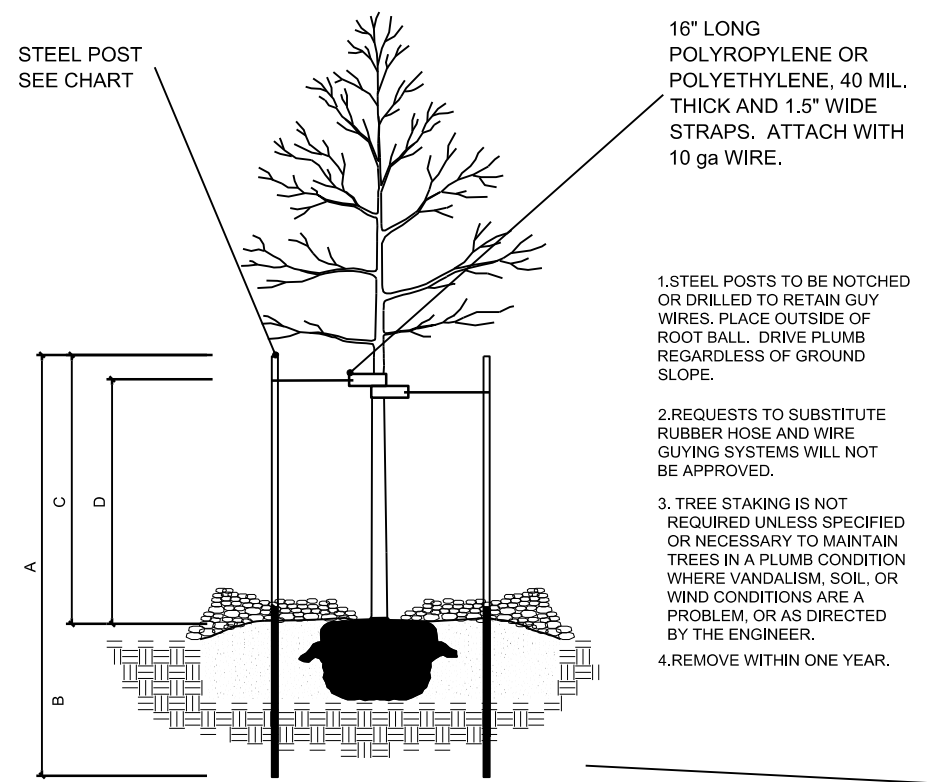
**SEEDLING TREE SHELTER**



(MnDOT 2571.3I4)



**PLANT SPACING IN MASS BEDS**



- STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES. PLACE OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.
- REQUESTS TO SUBSTITUTE RUBBER HOSE AND WIRE GUYING SYSTEMS WILL NOT BE APPROVED.
- TREE STAKING IS NOT REQUIRED UNLESS SPECIFIED OR NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION WHERE VANDALISM, SOIL, OR WIND CONDITIONS ARE A PROBLEM, OR AS DIRECTED BY THE ENGINEER.
- REMOVE WITHIN ONE YEAR.

**STAKING AND GUYING**

(MnDOT 2571.3I1)

STEEL POST SIZING					
CALIPER	STEEL POST TYPE	A	B	C	D
LESS THEN 4 INCHES	ROLLED STEEL FENCE POST (MnDOT 3403) OR APPROVED EQUAL.	7'-0"	3'-0" MIN.	4'-0"	3'-0"
GREATER THEN 4 INCHES	10', 2.2 LB. FLANGED CHANNEL STEEL SIGN POST (MnDOT 3401) OR APPROVED EQUAL.	10'-0"	4'-0" MIN.	6'-0"	5'-0"

**DRAWN BY:** BAK  
**DESIGNED BY:** CCA  
**CHECKED BY:** CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
PRINTED NAME: CANDACE C. AMBERG  
DATE: 7/28/2017 LIC. NO. 40646

MINNESOTA DEPARTMENT OF TRANSPORTATION  
TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO

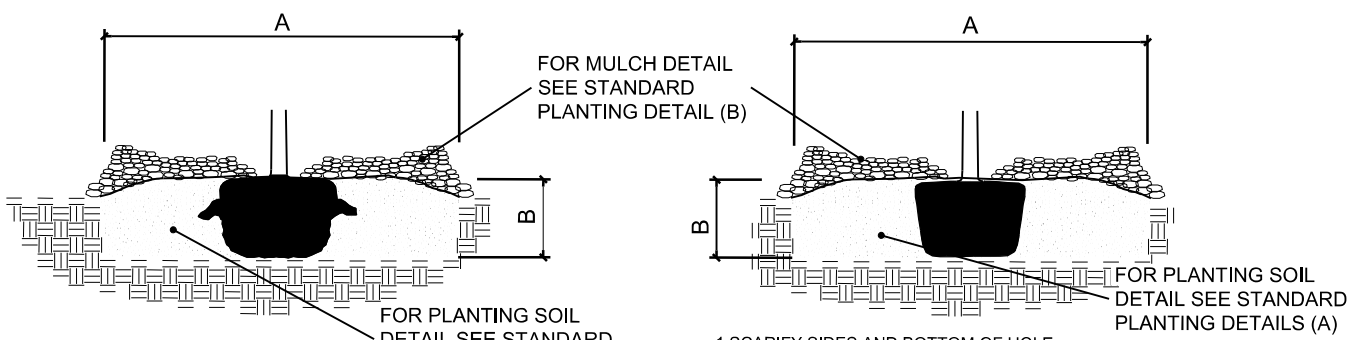


MISCELLANEOUS DETAILS

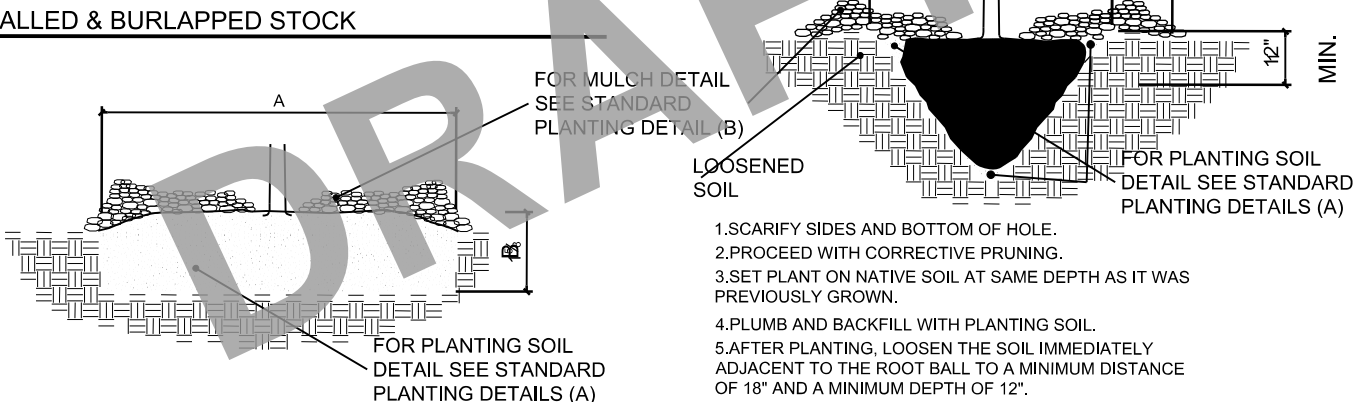
STATE PROJ. NO. 0704-110 (T.H. 22)  
Sheet No. 121 of 133 Sheets

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PLANTING HOLE DIMENSIONS			
HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.			
PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH
DECIDUOUS & ORNAMENTAL TREES	3" B.R.	46"	13"
	4" B.R.	46"	14"
	5" B.R.	48"	14"
	6" B.R.	54"	15"
	7" B.R.	60"	16"
	8" B.R.	66"	19"
	0.75" B.R.	48"	12"
	1" B.R.	54"	14"
	1.25" B.R.	60"	14"
	1.5" B.R.	66"	15"
	1.75" B.R.	72"	16"
	2" B.R.	84"	19"
	4" B.B.	42"	11"
	5" B.B.	48"	12"
	6" B.B.	52"	14"
	8" B.B.	66"	16"
	10" B.B.	66"	16"
	12" B.B.	48"	16"
	1" B.B.	54"	14"
	1.25" B.B.	56"	15"
	1.5" B.B.	61"	15"
	1.75" B.B.	66"	16"
	2" B.B.	72"	16"
	2.5" B.B.	84"	19"
3" B.B.	96"	20"	
3.5" B.B.	114"	23"	
4" B.B.	126"	25"	
DECIDUOUS SHRUBS, ROSES AND PERENNIALS	12" B.R.	24"	7"
	15" B.R.	28"	8"
	18" B.R.	30"	8"
	2" B.R.	33"	9"
	3" B.R.	42"	11"
	4" B.B.	48"	12"
	5" B.R.	54"	14"
	6" B.R.	60"	14"
	18" B.B.	27"	7"
	2" B.B.	30"	8"
3" B.B.	36"	9"	
4" B.B.	42"	11"	
5" B.B.	48"	12"	
6" B.B.	54"	14"	
PERENNIAL HOLE DEPTH AND WIDTH SHALL BE BASED UPON ON-CENTER SPACING IN A CONTINUOUS TRENCH.	4" B.B.	42"	11"
	5" B.B.	48"	12"
	6" B.B.	54"	14"
	6" B.B.	54"	14"



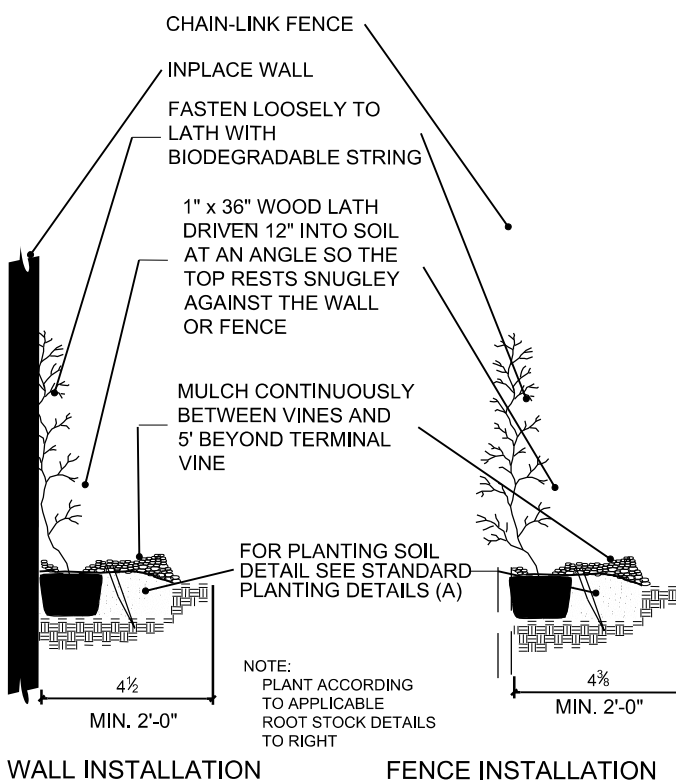
1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT.
6. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
7. PLUMB AND BACKFILL WITH PLANTING SOIL.
8. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
9. BACK FILL VOIDS AND WATER A SECOND TIME.
10. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.



1. SOAK ROOTS IN WATER FOR AT LEAST ONE HOUR BUT NOT MORE THAN 24 HOURS PRIOR TO PLANTING.
2. SCARIFY SIDES AND BOTTOM OF HOLE.
3. PROCEED WITH CORRECTIVE PRUNING OF THE TOP AND ROOTS.
4. TRANSFER PLANT DIRECTLY FROM WATER TO HOLE. SET PLANT SO THE ROOT FLARE IS AT THE FINISHED SOIL ELEVATION. SPREAD ROOTS OUT EVENLY. PLUMB AND IMMEDIATELY BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER A SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

MINIMUM TREE SPADE SIZE REQUIREMENTS			
(C) SPADE DIAMETER SIZE	OAK TREE, CALIPER	DECIDUOUS/ ORNAMENTAL TREE, CALIPER	CONIFEROUS TREE, HEIGHT
42"	1" to 1.5"	2" to 3"	5' to 7'
60"	1.5" to 2.5"	3" to 4"	7' to 9'
78"	2.5" to 3.5"	4" to 6"	9' to 14'
85"	3.5" to 5"	6" to 8"	14' to 18'

PLANTING HOLE DIMENSIONS			
HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.			
PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH
CONIFEROUS TREES	2" B.B.	36"	10"
	3" B.B.	42"	11"
	4" B.B.	51"	13"
	5" B.B.	60"	13"
	6" B.B.	66"	15"
	7" B.B.	72"	16"
	8" B.B.	81"	18"
	9" B.B.	90"	20"
	10" B.B.	102"	21"
	12" B.B.	114"	24"
CONIFEROUS SHRUBS (UPRIGHT)	18" SPR B.B.	30"	8"
	2" SPR B.B.	36"	9"
	3" B.B.	48"	12"
CONIFEROUS SHRUBS (SPREADING)	18" SPR B.B.	30"	8"
	2" SPR B.B.	36"	9"
CONTAINER GROWN PLANTS	CELLPACKS / PLUGS	6"	2.5"
	2.25" CONT.	7"	3"
	3.5" CONT.	10"	3"
	4" CONT.	11"	4"
	4.5" CONT.	13"	4"
	6" QT CONT.	15"	5.5"
	1# CONT.	18"	6"
	2# CONT.	23"	7.5"
	3# CONT.	29"	8.5"
	5# CONT.	30"	11"
	7# CONT.	37"	11"
	15# CONT.	44"	14"
10# CONT.	45"	15"	
20# CONT.	60"	16"	
25# CONT.	72"	17"	
SEEDLINGS	6" SEEDLING	15"	14"
	9" SEEDLING	18"	14"
	12" SEEDLING	23"	16"
	18" SEEDLING	30"	16"
	2" SEEDLING	36"	18"
VINES	1 YR. MED B.R.	15"	11"
	1 YR. NO. 1 B.R.	17"	14"
	2 YR. MED. B.R.	33"	12"
	2 YR. NO. 1 B.R.	42"	15"



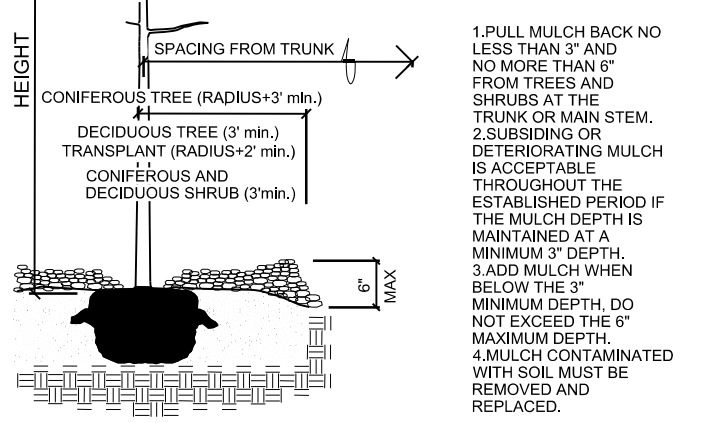
**INSTALLATION OF VINES**

**BARE ROOT STOCK**

**INSTALLATION OF PLANTS**

**MACHINE MOVED STOCK**

MULCH AREA CALCULATOR	
TYPE OF PLANT	SQ. FT. PER PLANT
CONIFEROUS TREES	$\left[ \frac{(3/5 \times \text{HEIGHT})}{2} + 3 \right]^2 \times \pi$
DECIDUOUS AND ORNAMENTAL TREES	$3^2 \times \pi$
CONIFEROUS AND DECIDUOUS SHRUBS, ROSE BUSHES, PERENNIALS, ORNAMENTAL GRASS	SPACING x SPACING
VINES	SPACING x 2
MACHINE-MOVED TREES OR SHRUBS	$\left[ \frac{(\text{SPADE DIAMETER})}{2} + 1 \right]^2 \times \pi$
	$\pi = 3.1416$



(MnDOT 2571.3F) (MnDOT 2571.3H)

**DRAWN BY:** BAK  
**DESIGNED BY:** CCA  
**CHECKED BY:** CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
 PRINTED NAME: CANDACE C. AMBERG  
 DATE: 7/28/2017 LIC. NO. 40646

MINNESOTA DEPARTMENT OF TRANSPORTATION  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO

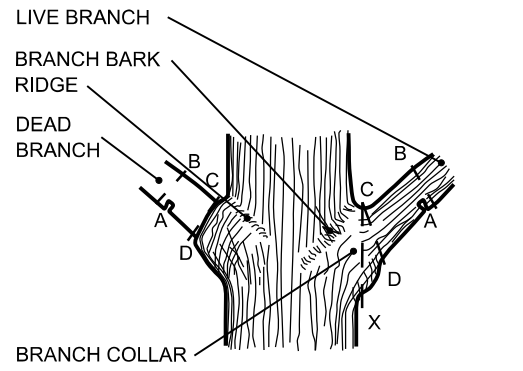


MISCELLANEOUS DETAILS

STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 122 of 133 Sheets



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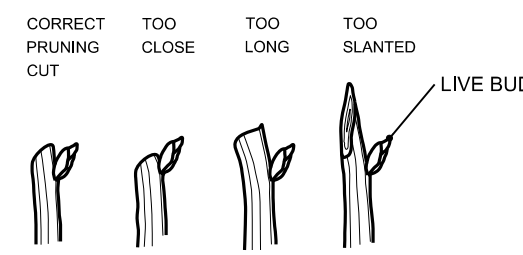


**STEPS TO PRUNING WITH PRUNING SAW:**  
 1. CUT PART WAY THROUGH THE BRANCH AT POINT A.  
 2. CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.  
 3. AT BRANCH COLLAR CUT FROM POINT C TO D.

INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

**BRANCHES PRUNED AT TRUNK**  
(SHIGO METHOD)



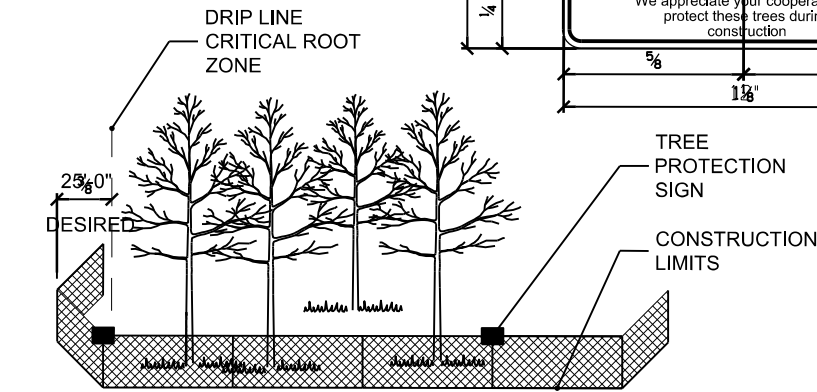
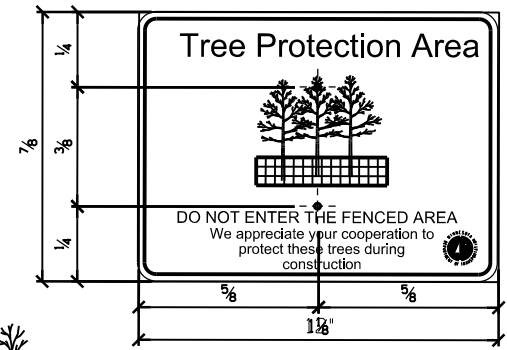
**PRUNING NOTES:**  
 1. PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.  
 2. THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.  
 3. AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.  
 4. IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

**BRANCHES PRUNED TO LIVE BUD**

**PRUNING**

(MnDOT 2571.3K2a9 and 2571.3E1)

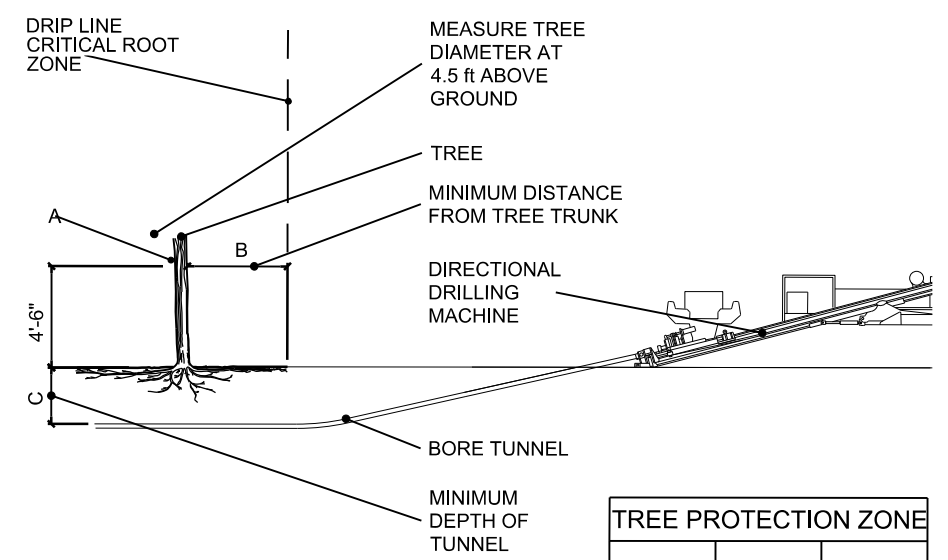
1. FABRICATE 12" X 9" X 3/8" SIGN WITH 0.75" RADIUS CORNERS.  
 2. SIGN SHALL BE WHITE WITH BLACK LETTERING.  
 3. ATTACH SIGN TO POST USING 1" LENGTH WOOD SCREWS.



1. FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIP LINE OR CONSTRUCTION LIMITS AS SPECIFIED, PRIOR TO ANY CONSTRUCTION.  
 2. WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIP LINE.  
 3. PLACE TREE PROTECTION SIGNS ALONG FENCE AT 50' INTERVALS.

**TEMPORARY FENCE**

(MnDOT 2572.3A1)

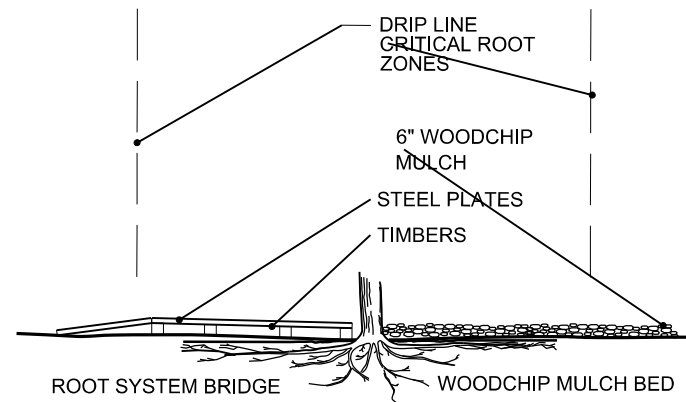


**NOTE:**  
 1. (A) IS THE DIAMETER OF TREES MEASURED 4-6 FEET ABOVE THE GROUND AND IS TERMED THE "DIAMETER AT BREAST HEIGHT," (DBH).  
 2. USING A TREE DIAMETER TAPE, WRAP THE TAPE AROUND THE GIRTH OF THE TREE, AT THE DBH, BEING CAREFUL NOT TO TWIST THE TAPE.

TREE PROTECTION ZONE		
A	B	C
<2"	2'	2'
2-4"	4'	2.5'
>4-9"	6'	2.5'
>9-14"	10'	3'
>14-19"	12'	3.25'
>19"	15'	4'

**UTILITY CONSTRUCTION**

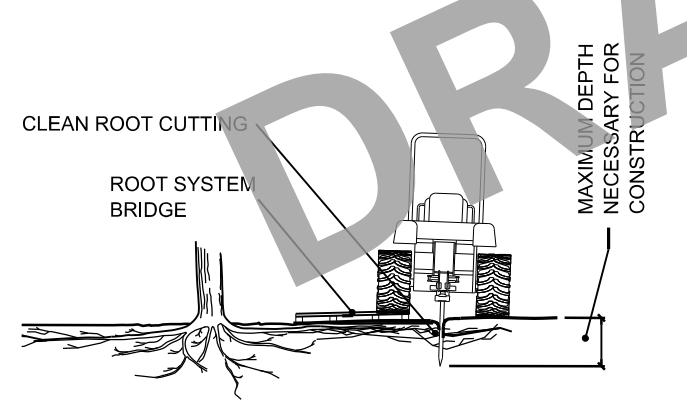
(MnDOT 2572.3A5)



IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, THE CONTRACTOR MUST EITHER:  
 1. CONSTRUCT ROOT SYSTEM BRIDGES WITH STEEL PLATE SUPPORTED ON WOOD TIMBERS PLACED RADially TO THE TREE TRUNK.  
 OR  
 2. PLACE A 6 INCH LAYER OF WOODCHIP MULCH OVER TYPE III GEOTEXTILE (MnDOT 3733)

**OTHER VEGETATION PROTECTION MEASURES**

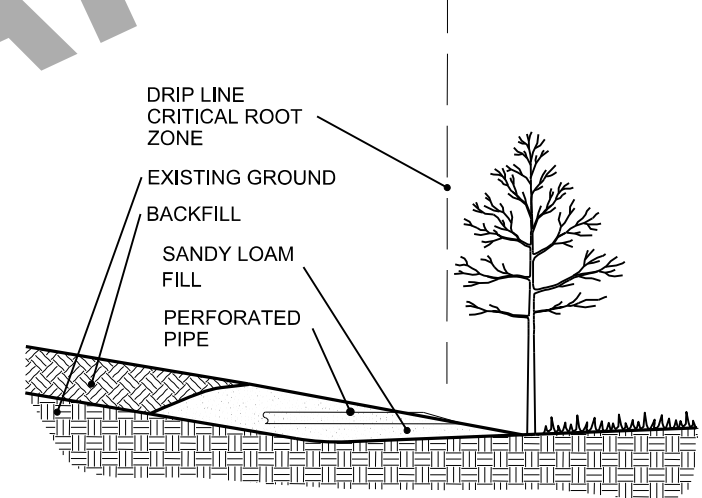
(MnDOT 2572.3A12)



1. WHEN DESIGNATED IN THE PLAN OR DIRECTED BY THE ENGINEER, PRIOR TO EXCAVATION, ALL TREE ROOTS WILL BE CLEANLY CUT BY A VIBRATORY PLOW OR OTHER APPROVED ROOT CUTTER.  
 2. THE TREE ROOTS WILL BE CUT CLEANLY TO THE MINIMUM DEPTH NECESSARY FOR CONSTRUCTION.  
 3. IMMEDIATELY, AND CLEANLY CUT DAMAGED AND EXPOSED ROOTS.  
 4. ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6" LAYER OF ADJACENT SOIL.  
 5. EXPOSED CUT OAK ROOTS SHALL BE IMMEDIATELY (WITHIN 5 MINUTES) TREATED WITH A WOUND DRESSING MATERIAL CONSISTING OF LATEX PAINT OR SHELLAC.

**CLEAN ROOT CUTTING**

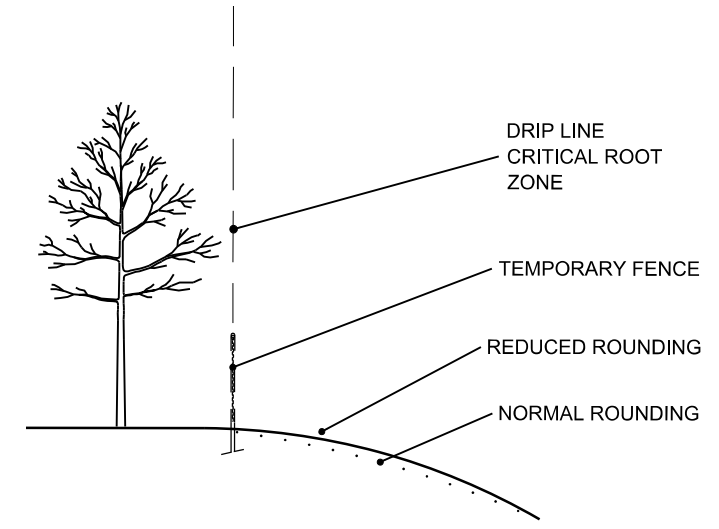
(MnDOT 2572.3A2)



1. ANY FILL REQUIRED WITHIN THE DRIP LINE OF TREES, IS UNCOMPACTED SANDY LOAM TOPSOIL (WITH A COARSE SAND COMPONENT).  
 2. EXCESSIVE FILL MAY REQUIRE INSTALLING PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END OPENING AS AN AERATION SYSTEM.

**SANDY LOAM TOPSOIL**

(MnDOT 2572.3A4)



SIGNIFICANT TREES NEAR THE PROPOSED CONSTRUCTION LIMITS WILL BE IDENTIFIED IN THE PLAN OR BY THE ENGINEER AND WILL BE PRESERVED BY THE CONTRACTOR.

1. PLACE THE TEMPORARY FENCE.  
 2. REDUCE SLOPE ROUNDING WHERE ROOT ZONES ARE DISTURBED BY NORMAL SLOPE ROUNDING.  
 3. VARY BACKSLOPE STEEPNESS TO AVOID TREE LOSS OR UNNECESSARY ROOT DAMAGE.

**SLOPE ROUNDING**

**DRAWN BY:** BAK  
**DESIGNED BY:** CCA  
**CHECKED BY:** CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

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 PRINTED NAME: CANDACE C. AMBERG  
 DATE: 7/28/2017 LIC. NO. 40646

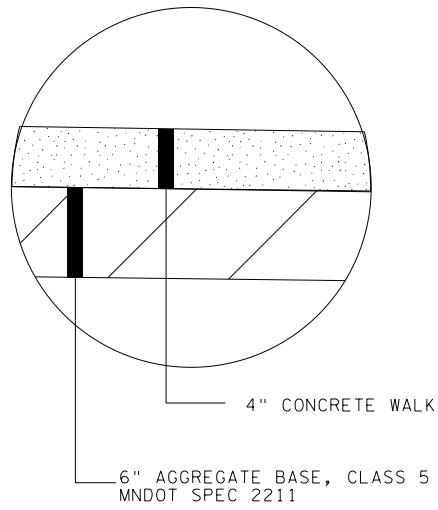
MINNESOTA DEPARTMENT OF TRANSPORTATION  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO



MISCELLANEOUS DETAILS

STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 123 of 133 Sheets

4" CONCRETE DETAIL



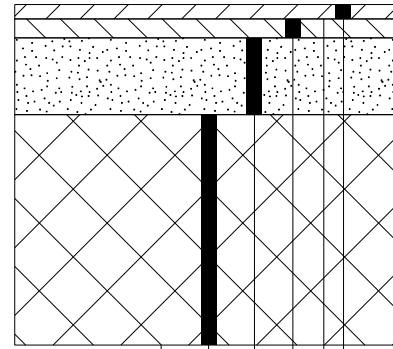
DRAFT

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<b>DRAWN BY:</b> BAK <b>DESIGNED BY:</b> CCA <b>CHECKED BY:</b> CCA	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.	SIGNATURE: _____ PRINTED NAME: CANDACE C. AMBERG DATE: 7/28/2017 LIC. NO. 40646	 MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO		MISCELLANEOUS DETAILS	STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 124 of 133 Sheets
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PARKING LOT PAVEMENT SECTION



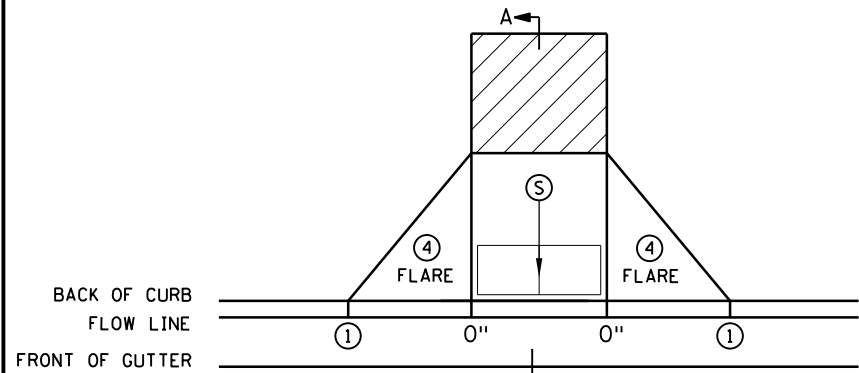
- 1.5" TYPE SP 12.5 WEARING COURSE MIXTURE (SPWEB240B)
- MNDOT 2357 BITUMINOUS TACK COAT
- 2.0" TYPE SP 12.5 NON-WEARING COURSE MIXTURE (SPNWB230B)
- 8" AGGREGATE BASE CLASS 5
- 24" SELECT GRANULAR BORROW
- GEOTEXTILE FABRIC

DRAFT

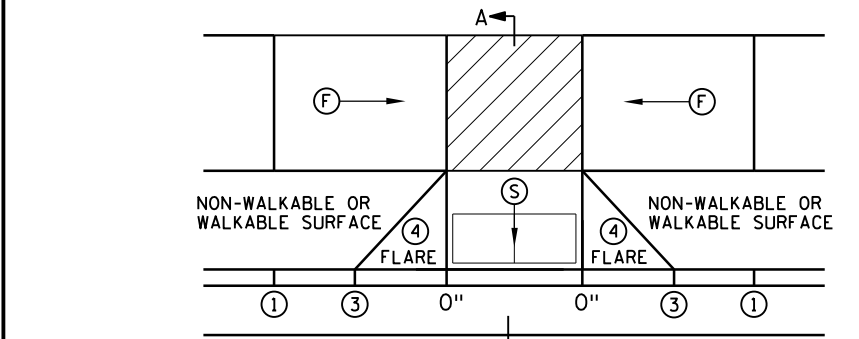
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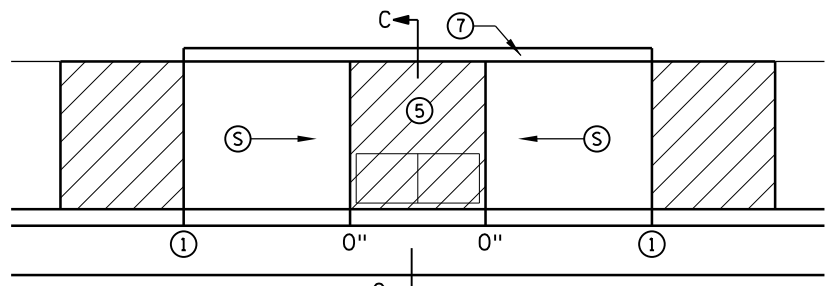
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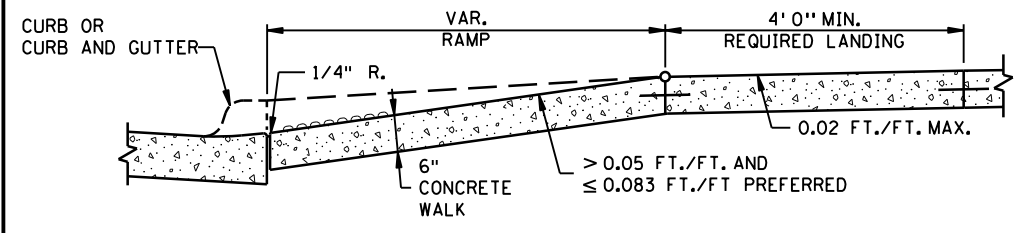
PERPENDICULAR



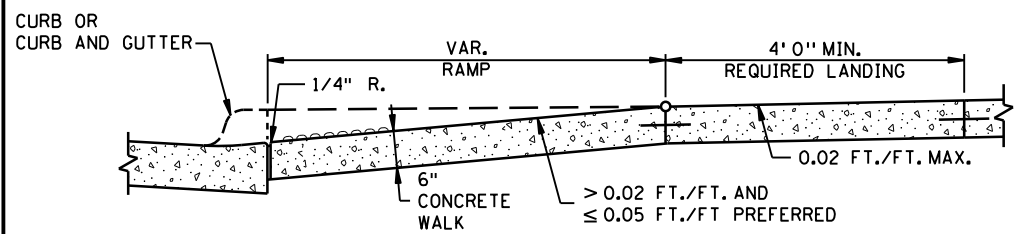
TIERED PERPENDICULAR



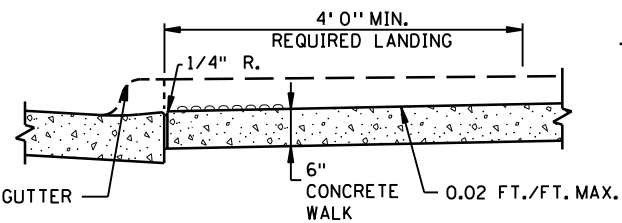
PARALLEL



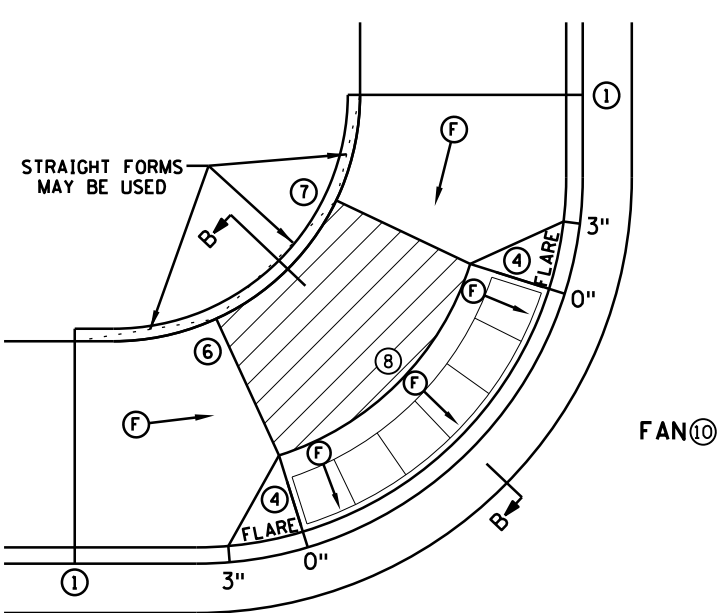
SECTION A-A  
PERPENDICULAR/TIERED/DIAGONAL



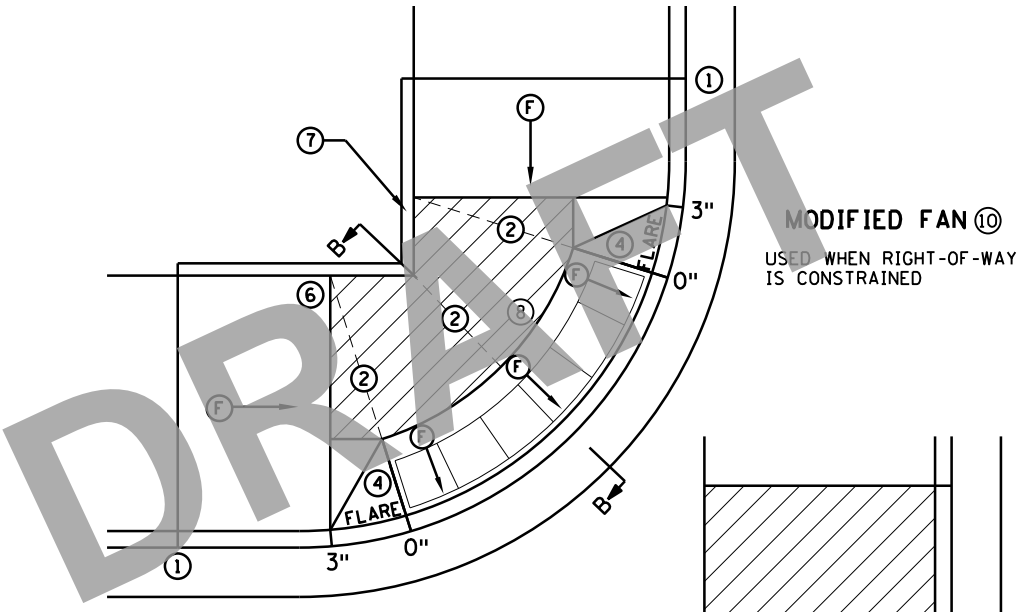
SECTION B-B  
FAN



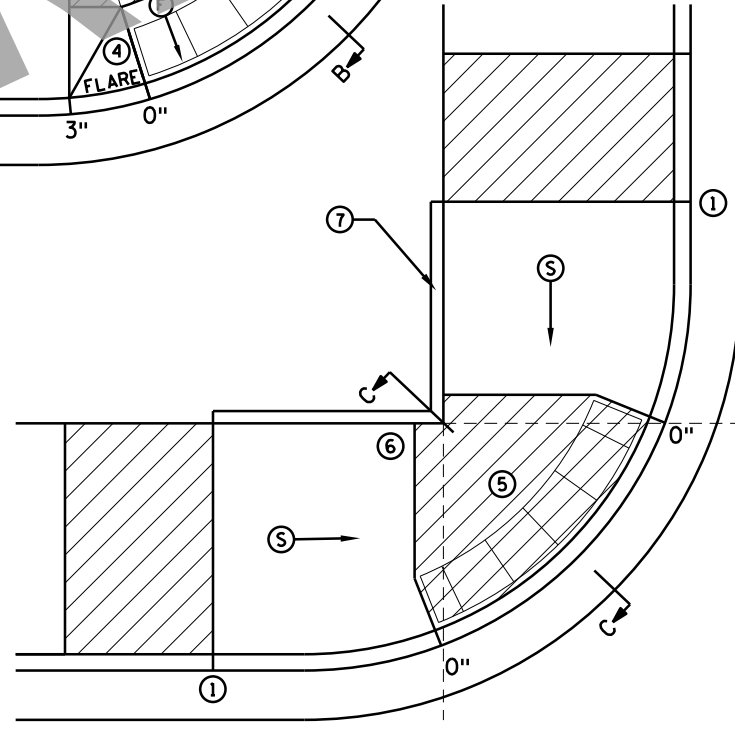
SECTION C-C  
PARALLEL/DEPRESSED CORNER



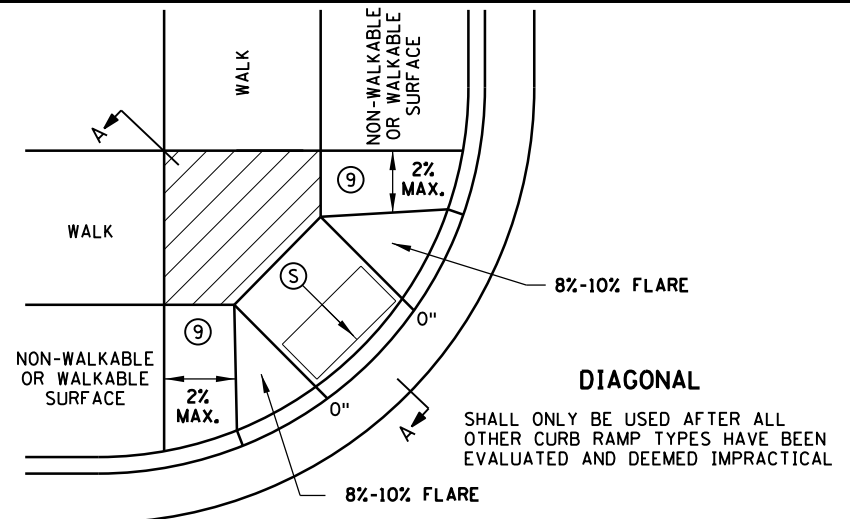
FAN ⑩



MODIFIED FAN ⑩  
USED WHEN RIGHT-OF-WAY IS CONSTRAINED



DEPRESSED CORNER



DIAGONAL

NOTES:

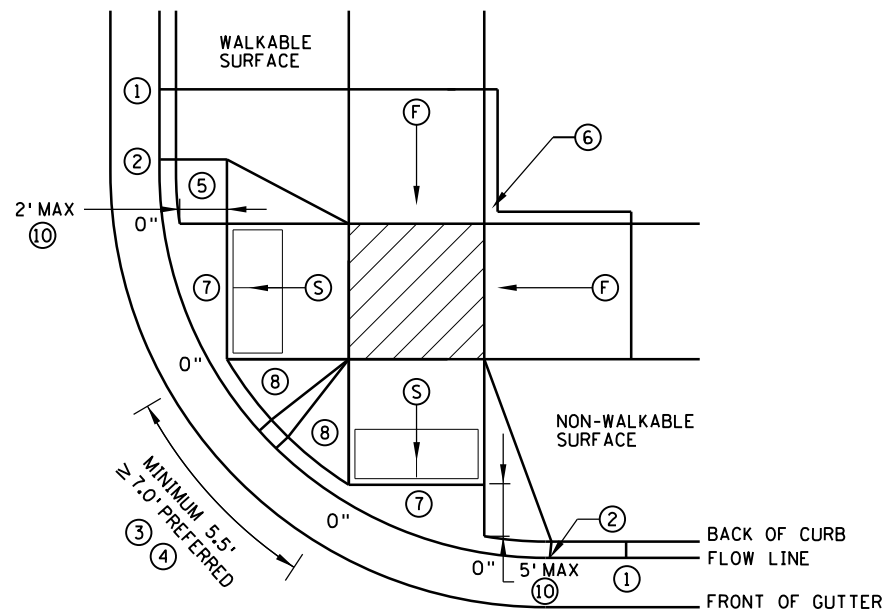
- LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE GREATER THAN 2%.
  - INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.
  - SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30' OF VERTICAL RISE WHEN THE LONGITUDINAL RUNNING SLOPE IS GREATER THAN 5.0%.
  - CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOPS OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.
  - ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH. (EXCEPT AS STATED IN ⑥ BELOW.
  - TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISIONS - PROSECUTION OF WORK (ADA).
  - TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.
  - WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.
  - ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.
  - 4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER ENTIRE WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK. DETECTABLE WARNING SHOULD BE 6" LESS THAN THE PAR/TRAIL WIDTH. ARC LENGTH OF RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.
  - RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.
- ① MATCH FULL HEIGHT CURB.
  - ② 4' MINIMUM DEPTH LANDING REQUIRED ACROSS TOP OF RAMP.
  - ③ 3" HIGH CURB WHEN USING A 3' LONG RAMP, 4" HIGH CURB WHEN USING A 4' LONG RAMP.
  - ④ SEE SHEET 4 OF 6, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS, WHEN INITIAL LANDING IS AT FULL CURB HEIGHT.
  - ⑤ DETECTABLE WARNINGS MAY BE PART OF THE 4' X 4' MIN. LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.
  - ⑥ THE GRADE BREAK SHALL BE PERPENDICULAR TO THE BACK OF WALK. THIS WILL ENSURE THAT THE GRADE BREAK IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (TYPICAL FOR ALL)
  - ⑦ WHEN ADJACENT TO GRASS, GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
  - ⑧ A 7' MIN TOP RADIUS GRADE BREAK REQUIRED TO BE CONSTRUCTIBLE.
  - ⑨ PAVE FULL WALK WIDTH.
  - ⑩ "S" SLOPES ON FANS SHALL ONLY BE USED WHEN ALL OTHER FEASIBLE OPTIONS HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

LEGEND	
THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.	
(S)	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
(F)	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
(Hatched Box)	LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.
X"	CURB HEIGHT

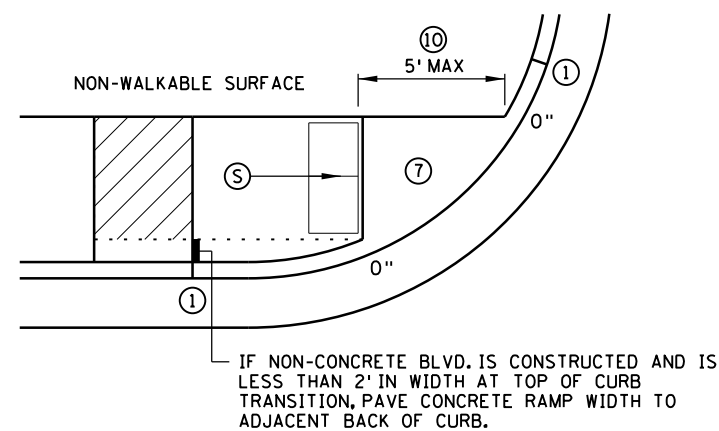
REVISION:  
APPROVED: JANUARY 23, 2017  
OPERATIONS ENGINEER

REVISOR:  
APPROVED: 1-23-2017  
STATE DESIGN ENGINEER

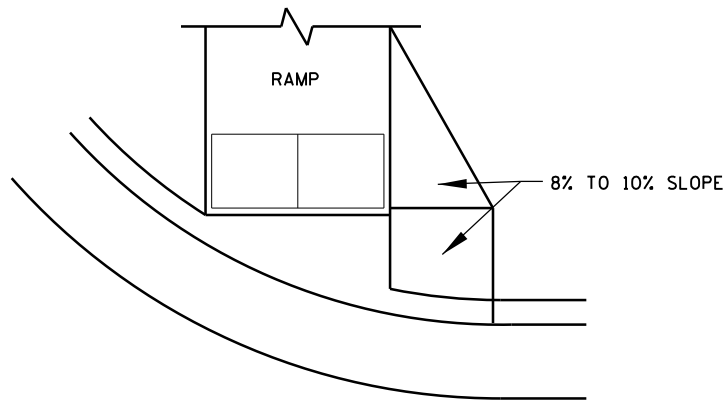
PEDESTRIAN CURB RAMP DETAILS  
STANDARD PLAN 5-297.250  
1 OF 6



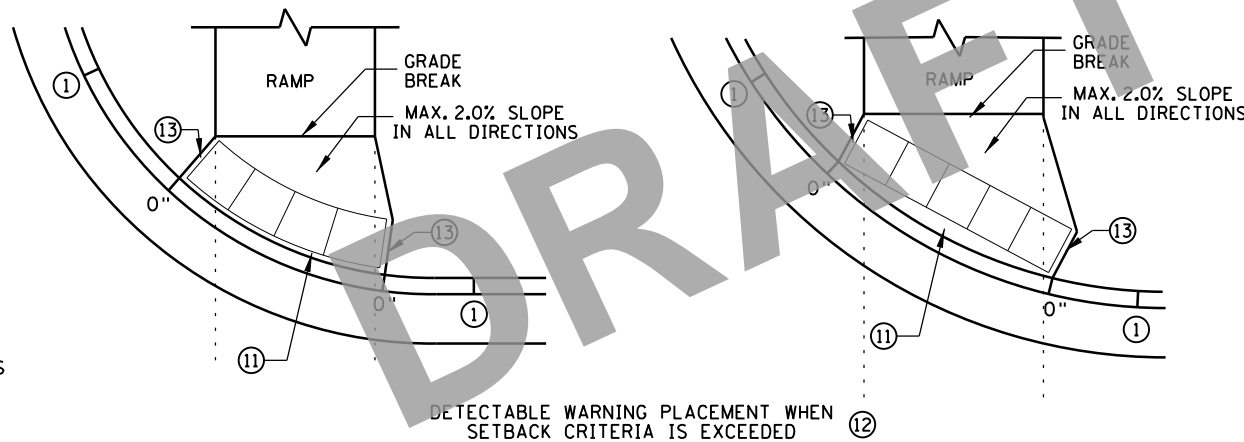
COMBINED DIRECTIONAL ⑨



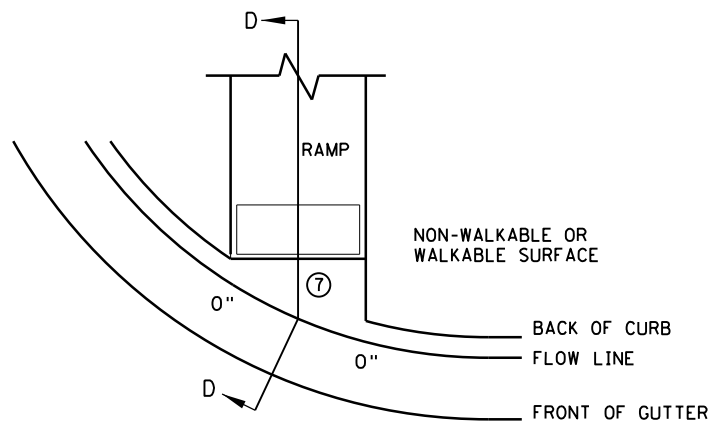
STANDARD ONE-WAY DIRECTIONAL ⑨



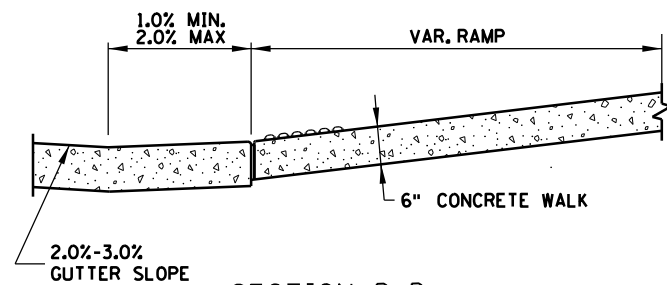
DIRECTIONAL RAMP WALKABLE FLARE



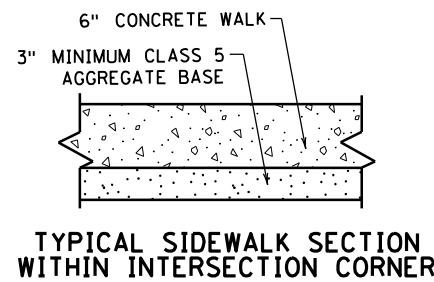
ONE-WAY DIRECTIONAL WITH DETECTABLE WARNING AT BACK OF CURB



CURB FOR DIRECTIONAL RAMPS ⑭



SECTION D-D



TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER ENTIRE WIDTH OF SHARED-USE PATH AND THE ENTIRE PAR WIDTH OF THE WALK. DETECTABLE WARNING SHOULD BE 6" LESS THAN THE PAR/PATH WIDTH. ARC LENGTH OF RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB. SEE NOTES ⑩ & ⑪ FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

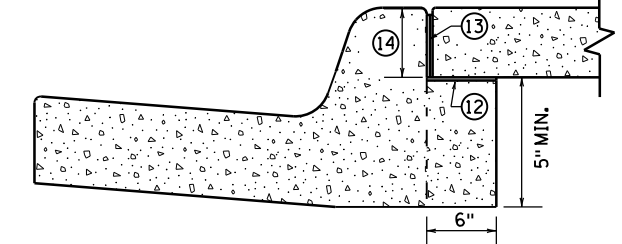
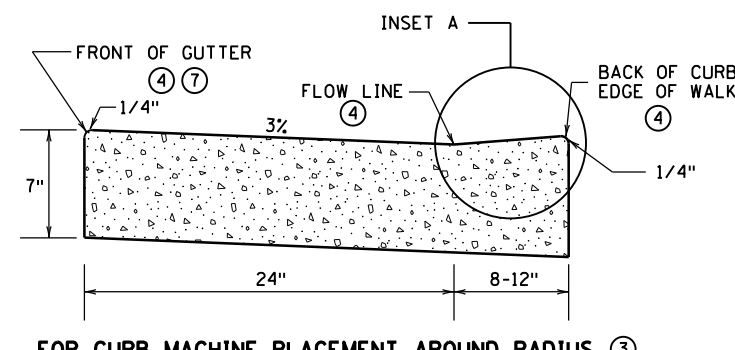
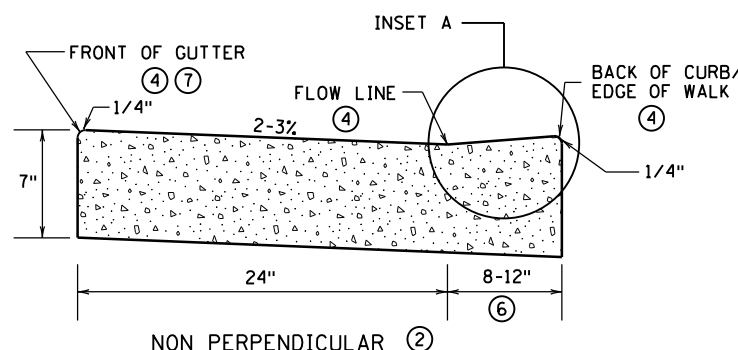
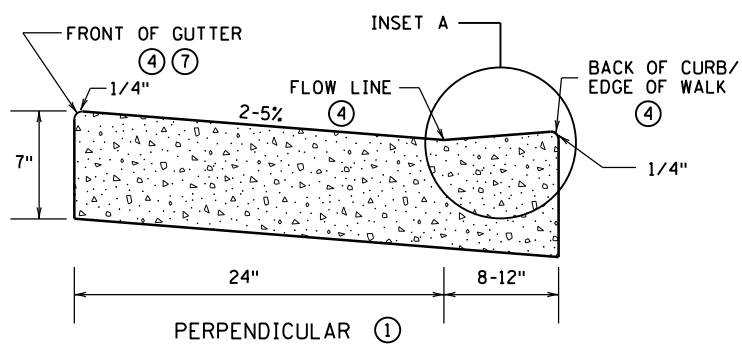
- ① MATCH FULL CURB HEIGHT.
- ② 3" HIGH CURB WHEN USING A 3' LONG RAMP  
4" HIGH CURB WHEN USING A 4' LONG RAMP.
- ③ 3" MINIMUM CURB HEIGHT (5.5' MIN. DISTANCE REQUIRED BETWEEN DOMES)  
4" PREFERRED (7' MIN. DISTANCE REQUIRED BETWEEN DOMES).
- ④ THE "BUMP" IN BETWEEN THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIRECTIONAL RAMPS. IF THIS OCCURS MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNER.
- ⑤ WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHOULD BE USED. SEE THE DETAIL ON THIS SHEET.
- ⑥ GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
- ⑦ MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.
- ⑧ 8% TO 10% WALKABLE FLARE.
- ⑨ PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.
- ⑩ FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
- ⑪ RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.
- ⑫ FOR DIRECTIONAL RAMPS WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETECTABLE WARNINGS SHALL COVER THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE AND HELPS ELIMINATE THE CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.
- ⑬ THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- ⑭ TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB.

LEGEND	
THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.	
Ⓢ	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
Ⓣ	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
	LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PAR.
X"	CURB HEIGHT

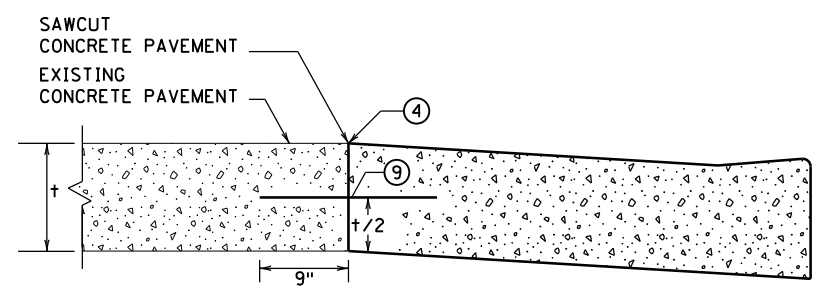
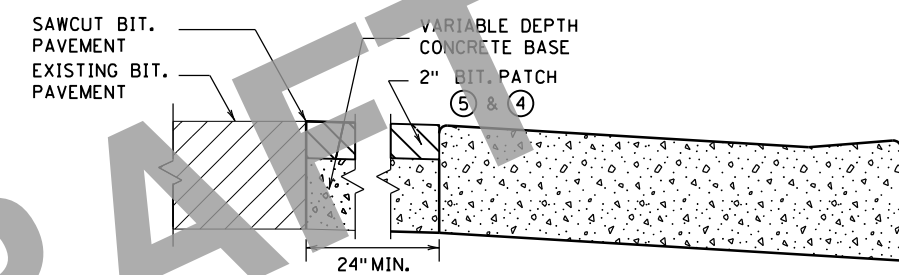
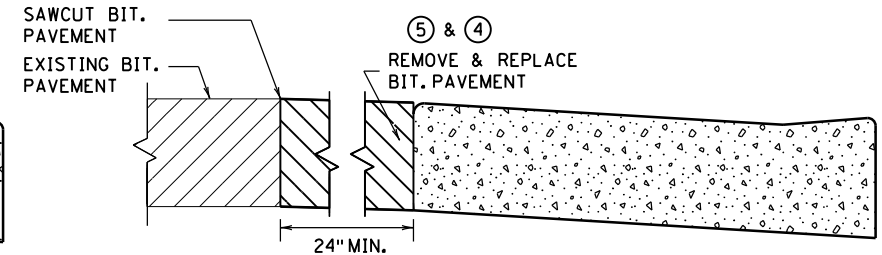
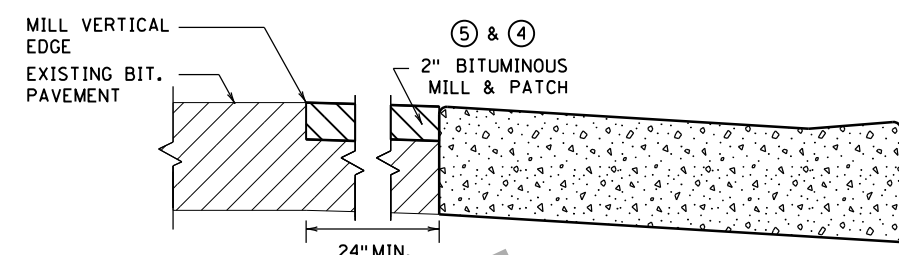
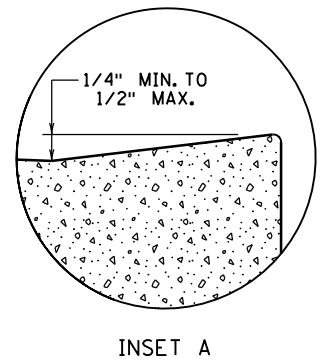
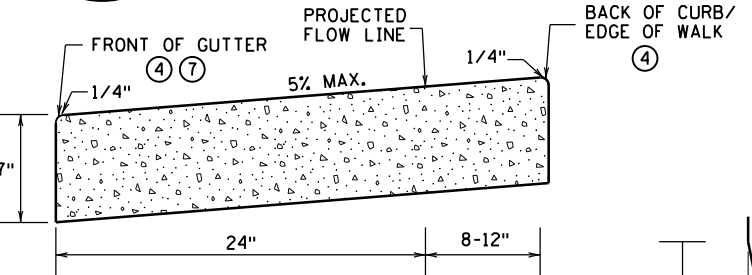
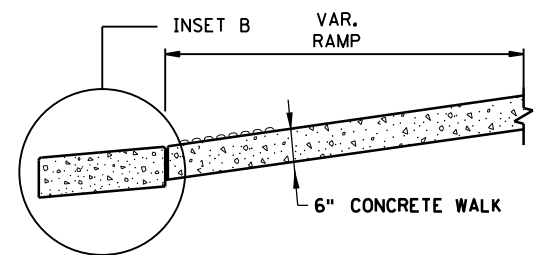
REVISION:  
APPROVED: JANUARY 23, 2017  
OPERATIONS ENGINEER

REVISOR:  
APPROVED: 1-23-2017  
STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS  
STANDARD PLAN 5-297.250 2 OF 6



**PEDESTRIAN ACCESS ROUTE CURB & GUTTER DETAIL**



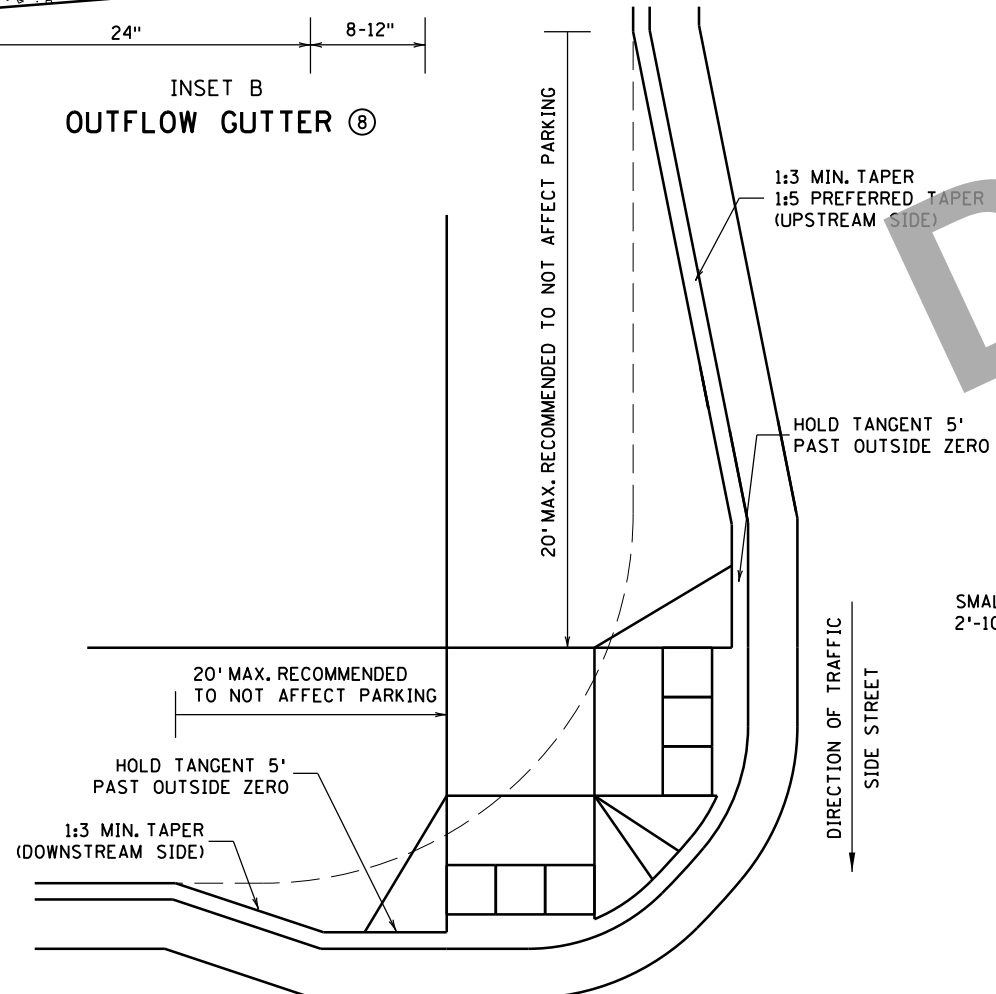
ONLY ALLOWED PER ENGINEER'S APPROVAL

**PAVEMENT TREATMENT OPTIONS IN FRONT OF CURB & GUTTER**

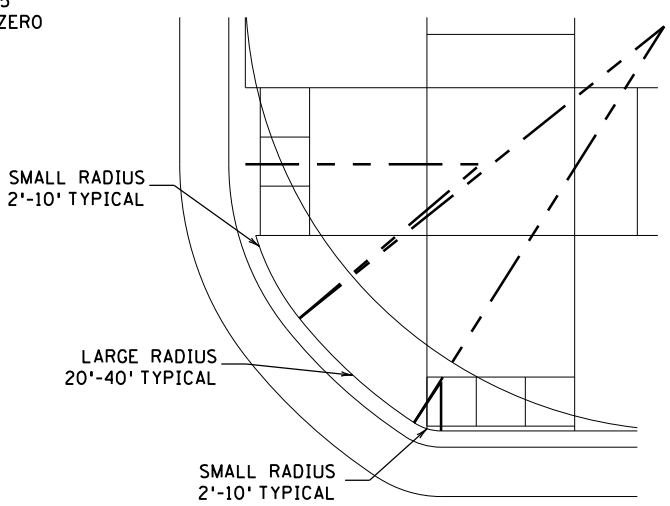
FOR USE ON CURB RAMP RETROFITS

**NOTES:**

- POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM. NO PONDING SHALL BE PRESENT IN THE PAR.
- ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.
- ① FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMP.
- ② FOR USE AT CURB RAMP WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS & DEPRESSED CORNERS.
- ③ BEGIN GUTTER SLOPE TRANSITION 10' OUTSIDE OF ALL CURB RAMP.
- ④ THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".
- ⑤ ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.
- ⑥ VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS. SEE SHEET 2 FOR DIRECTIONAL CURB SLOPE REQUIREMENTS.
- ⑦ TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. TOP 1.5" OF THE GUTTER FACE MUST BE A FORMED EDGE. PAR GUTTER SHALL NOT BE OVERLAID.
- ⑧ SHOULD BE USED AT VERTICALLY CONSTRAINED AREAS WHEN AT A DRAINAGE HIGH POINT OR SUPER ELEVATED ROADWAY SEGMENTS.
- ⑨ DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT 1' MINIMUM FROM ALL JOINTS.
- ⑩ HELPS PROVIDE TWO SEPARATE RAMP, REDUCES THE DOME SETBACK LENGTH AND MINIMIZES DIRECTIONAL CURB. THIS RADIUS DESIGN CLOSELY FOLLOWS THE TURNING VEHICLE PATH WHILE OPTIMIZING CURB RAMP LENGTH.
- ⑪ CURB EXTENSIONS SHOULD BE USED IN VERTICALLY CONSTRAINED AREAS, USUALLY IN DOWNTOWN ROADWAY SEGMENTS WHERE ON-STREET PARKING IS AVAILABLE. CURB EXTENSIONS SHOULD BE CONSIDERED FOR APS INTERSECTIONS WHERE SPACE IS LIMITED. PUSH BUTTONS MUST MEET APS CRITERIA AS DESCRIBED IN THE PUSH BUTTON LOCATION DETAIL SHEET.
- ⑫ PLACE BOND BREAKER BETWEEN WALK AND TOP OF SILL.
- ⑬ 1/2" PREFORMED JOINT FILLER PER MNDOT SPEC. 3702.
- ⑭ DIMENSION TO BE SAME AS SIDEWALK THICKNESS, 4" MIN.



**ADA CURB EXTENSION WITH COMPOUND RADIUS (BUMP OUT) ⑩**



**COMBINED DIRECTIONAL ⑪ (COMPOUND RADIUS)**

REVISION:
APPROVED: JANUARY 23, 2017
OPERATIONS ENGINEER

DIRECTION OF TRAFFIC  
MAIN STREET

MINNESOTA DEPARTMENT OF TRANSPORTATION

REVISOR: \_\_\_\_\_

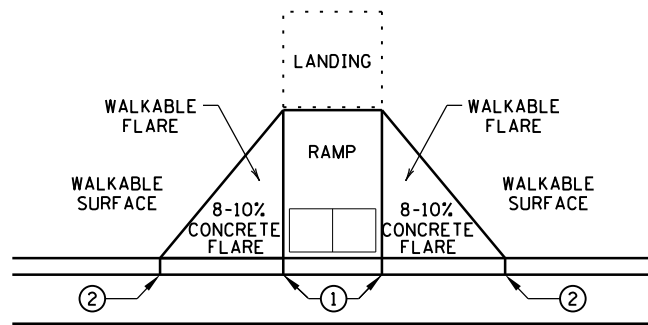
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STATE DESIGN ENGINEER

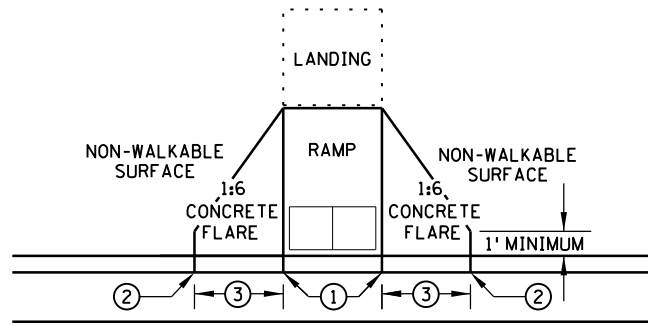
PEDESTRIAN CURB RAMP DETAILS

STANDARD PLAN 5-297.250

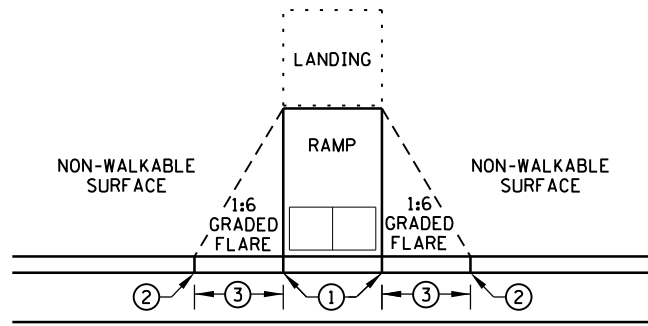
3 OF 6



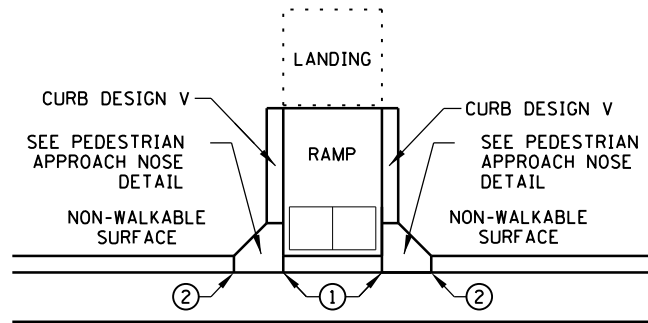
PAVED FLARES  
ADJACENT TO WALKABLE SURFACE



PAVED FLARES  
ADJACENT TO NON-WALKABLE SURFACE

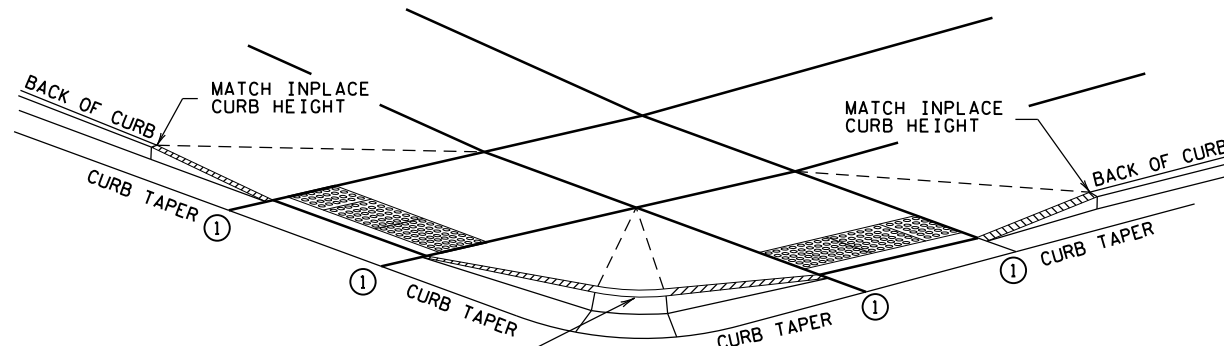


GRADED FLARES



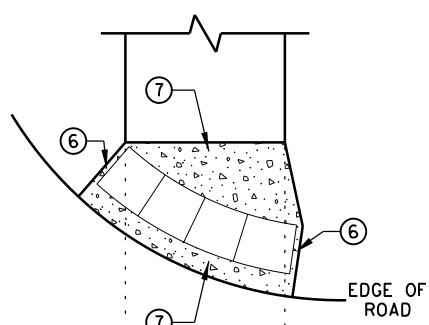
RETURNED CURB ⑤

TYPICAL SIDE TREATMENT OPTIONS ④ ⑪

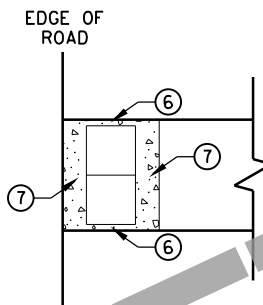


3" MINIMUM CURB HEIGHT, 4" PREFERRED  
(MEASURED AT FRONT FACE OF CURB)  
FOR A MIN. 6" LENGTH (MEASURED ALONG FLOW LINE)

DETECTABLE EDGE WITH ⑧  
CURB AND GUTTER

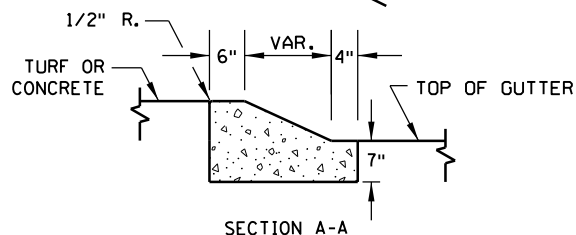
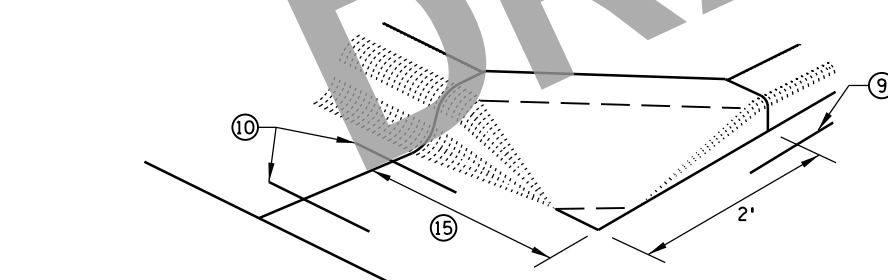


RADIAL DETECTABLE WARNING

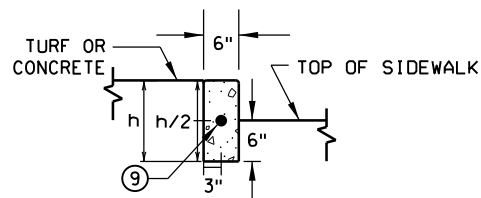


RECTANGULAR DETECTABLE WARNING

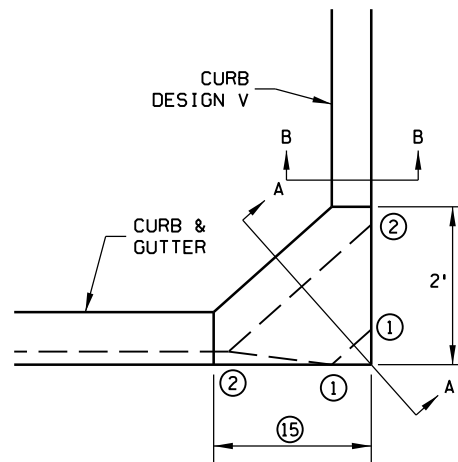
DETECTABLE EDGE WITHOUT CURB AND GUTTER



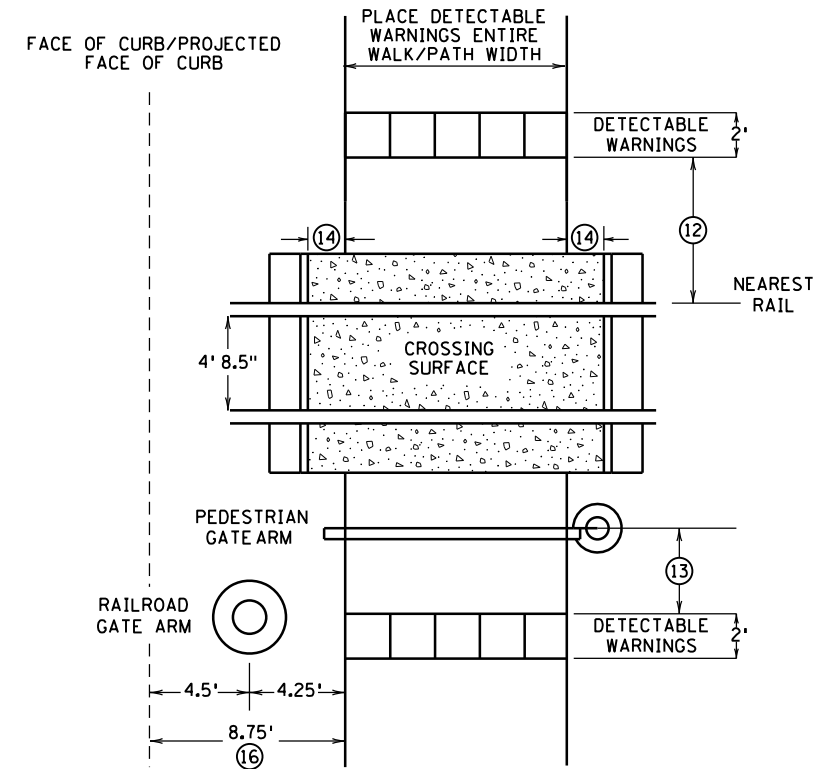
SECTION A-A



SECTION B-B



PEDESTRIAN APPROACH  
NOSE DETAIL  
(FOR RETURNED CURB  
SIDE TREATMENT)



RAILROAD CROSSING  
PLAN VIEW

NOTES:

- SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.
- A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
- CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.
- ① 0" CURB HEIGHT.
- ② FULL CURB HEIGHT.
- ③ 2' FOR 4" HIGH CURB AND 3' FOR 6" HIGH CURB.
- ④ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.
- ⑤ TYPICALLY USED FOR MEDIANS AND ISLANDS.
- ⑥ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" MAX. BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- ⑦ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF BITUMINOUS ROADWAY AND/OR BITUMINOUS SHARED-USE PATH TO PROVIDE VISUAL CONTRAST.
- ⑧ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.
- ⑨ DRILL AND GROUT 1 - NO. 4 12" LONG REINFORCEMENT BAR (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE V CURB.
- ⑩ DRILL AND GROUT 2 - NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE CURB AND GUTTER.
- ⑪ SIDE TREATMENT EXAMPLES SHOWN ARE WHEN THE INITIAL LANDING IS APPROXIMATELY LEVEL WITH THE FULL HEIGHT CURB (I.E. 6' LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS MORE THAN 1" BELOW FULL HEIGHT CURB REFER TO SHEETS 1 & 2 TO MODIFY THE CURB HEIGHT TAPERS AND MAINTAIN POSITIVE BOULEVARD DRAINAGE.
- ⑫ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12' MINIMUM TO 15' MAXIMUM FROM THE NEAREST RAIL. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO THE NEAREST RAIL.
- ⑬ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM. THIS CRITERIA GOVERNS OVER NOTE ⑫.
- ⑭ CROSSING SURFACE SHALL EXTEND 2' MINIMUM PAST THE OUTSIDE EDGE OF WALK OR SHARED-USE PATH.
- ⑮ 3' FOR MEDIANS AND SPLITTER ISLANDS. NOSE CAN BE REDUCED TO 2' ON FREE RIGHT ISLANDS.
- ⑯ SIDEWALK TO BE PLACED 8.75' MIN. FROM THE FACE OF CURB/PROJECTED FACE OF CURB. THIS ENSURES MIN. CLEARANCE BETWEEN THE SIDEWALK AND GATE ARM COUNTERWEIGHT SUPPORTS.

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APPROVED: JANUARY 23, 2017
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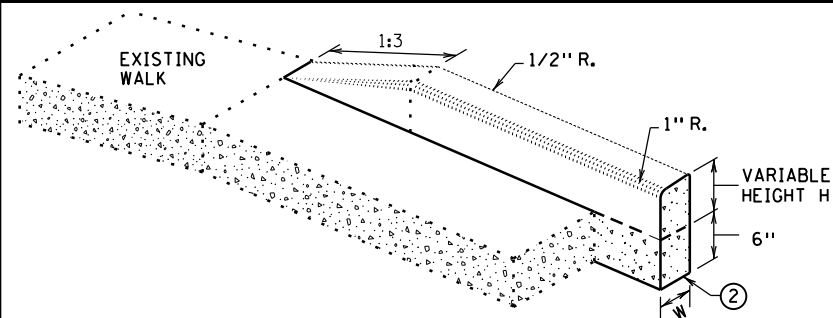
Tom Sja

STATE DESIGN ENGINEER

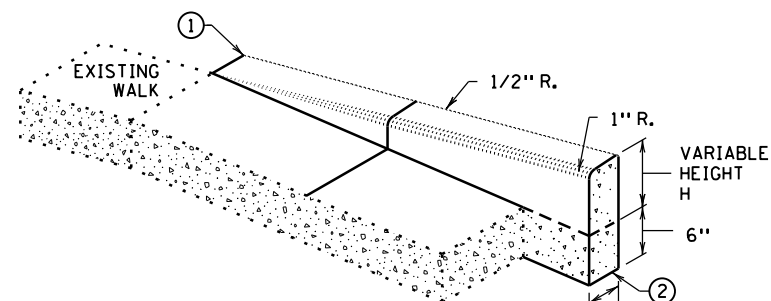
REVISED:
APPROVED:
1-23-2017

PEDESTRIAN CURB RAMP DETAILS	
STANDARD PLAN 5-297.250	4 OF 6

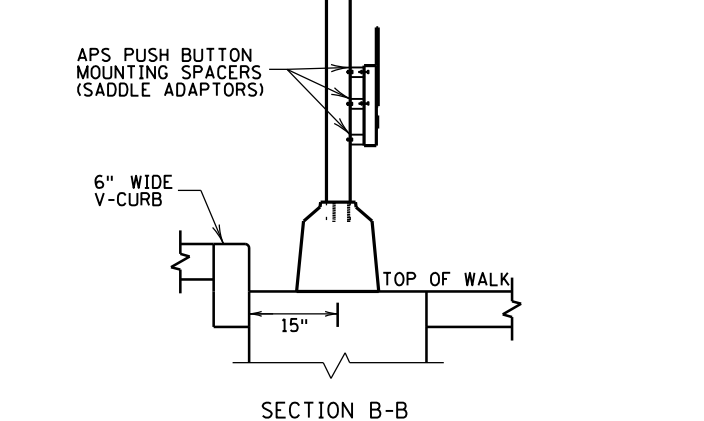
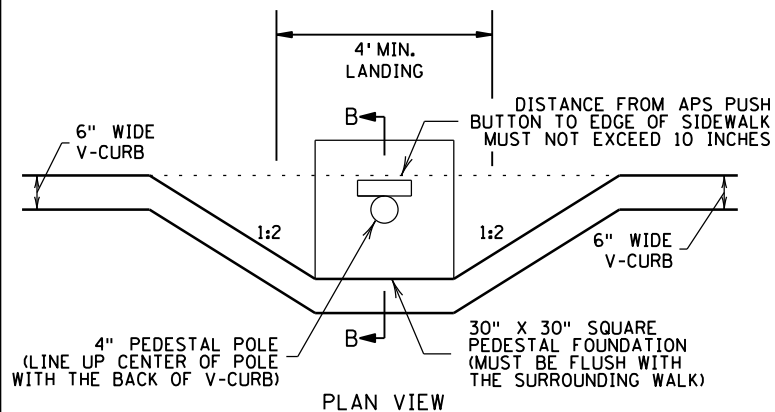




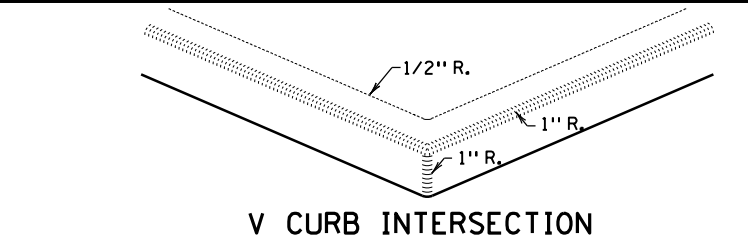
**V CURB ADJACENT TO LANDSCAPE**  
CURB WITHIN SIDEWALK LIMITS



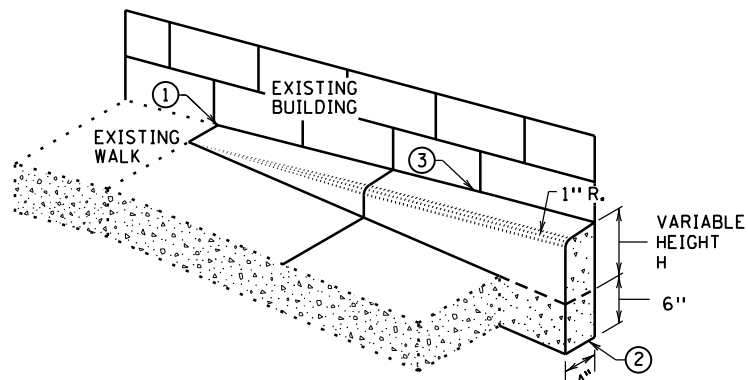
**V CURB ADJACENT TO LANDSCAPE**  
CURB OUTSIDE SIDEWALK LIMITS



**SIGNAL PEDESTAL & PUSH BUTTON (V-CURB)**

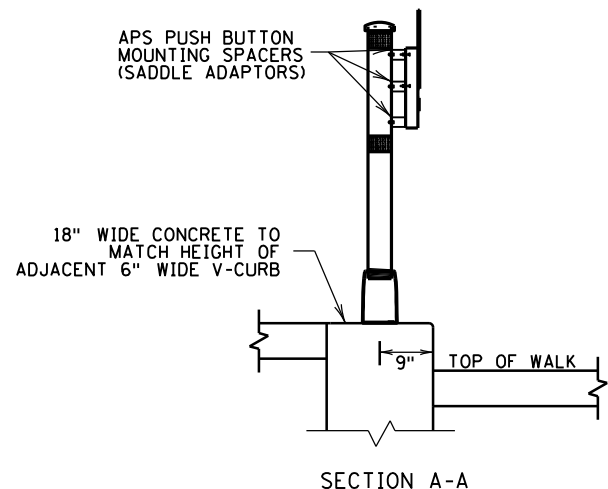
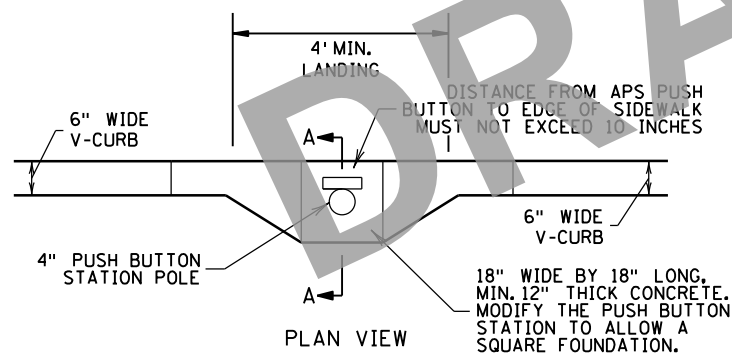


**V CURB INTERSECTION**

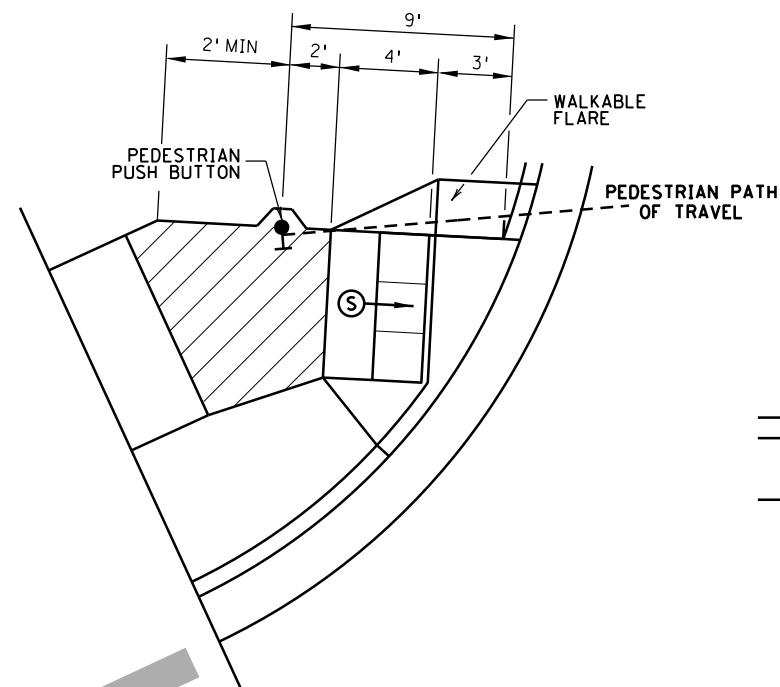


**V CURB ADJACENT TO BUILDING OR BARRIER**

CONCRETE CURB DESIGN V	
CURB HEIGHT H	CURB WIDTH W
< 6"	4"
≥ 6"	6"

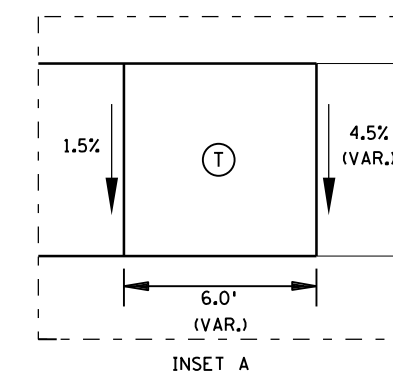
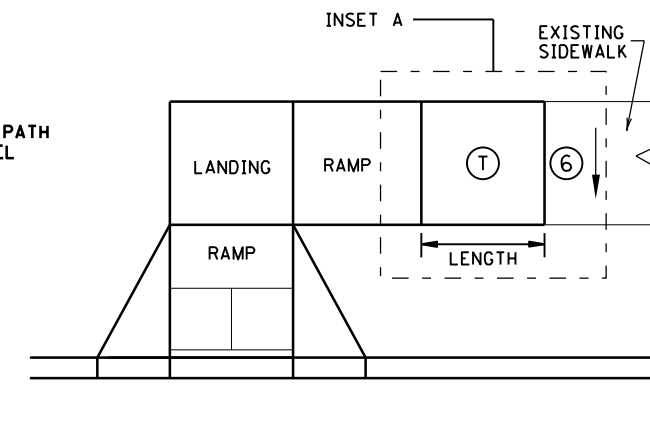


**PUSH BUTTON STATION (V-CURB)**



**SEMI-DIRECTIONAL RAMP (3,4,9)**

3' DOME SETBACK, 4' LONG RAMP AND PUSH BUTTON 9' FROM THE BACK OF CURB  
 PRIMARILY USED FOR APS APPLICATIONS WHERE THE PAR DOES NOT CONTINUE PAST THE PUSH BUTTON (DEAD-END SIDEWALK)



**TRANSITION PANEL (4,5)**

**NOTES:**

- A WALKABLE FLARE IS AN 8-10% CONCRETE FLARE THAT IS REQUIRED WHEN THE FLARE IS ADJACENT TO A WALKABLE SURFACE, OR WHEN THE PEDESTRIAN PATH OF TRAVEL OF A PUSH BUTTON TRAVERSES THE FLARE.
- ALL V CURB CONTRACTION JOINTS SHALL MATCH CONCRETE WALK JOINTS.
- WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED.
- V CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.
- V CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH PREVIOUS TOP OF SIDEWALK ELEVATIONS.
- ① END TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.
- ② ALL V CURB SHALL MATCH BOTTOM OF ADJACENT WALK.
- ③ EDGE BETWEEN NEW V CURB AND INPLACE STRUCTURE SHALL BE SEALED AND BOND BREAKER SHALL BE USED BETWEEN EXISTING STRUCTURE AND PLACED V-CURB.
- ④ THE MAX. RATE OF CROSS SLOPE TRANSITIONING IS 1' LINEAR FOOT OF SIDEWALK PER HALF PERCENT CROSS SLOPE. WHEN PAR WIDTH IS GREATER THAN 6' OR THE RUNNING SLOPE IS GREATER THAN 5%, DOUBLE THE CALCULATED TRANSITION LENGTH.
- ⑤ TRANSITION PANELS ARE TO ONLY BE USED AFTER THE RAMP, OR IF NEEDED, LANDING ARE AT THE FULL CURB HEIGHT (TYPICAL SECTION).
- ⑥ EXISTING CROSS SLOPE GREATER THAN 2.0%.

**LEGEND**

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT, IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

- ⑤ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
- LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PAR.
- ① TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK. SEE THIS SHEET FOR ADDITIONAL INFORMATION.

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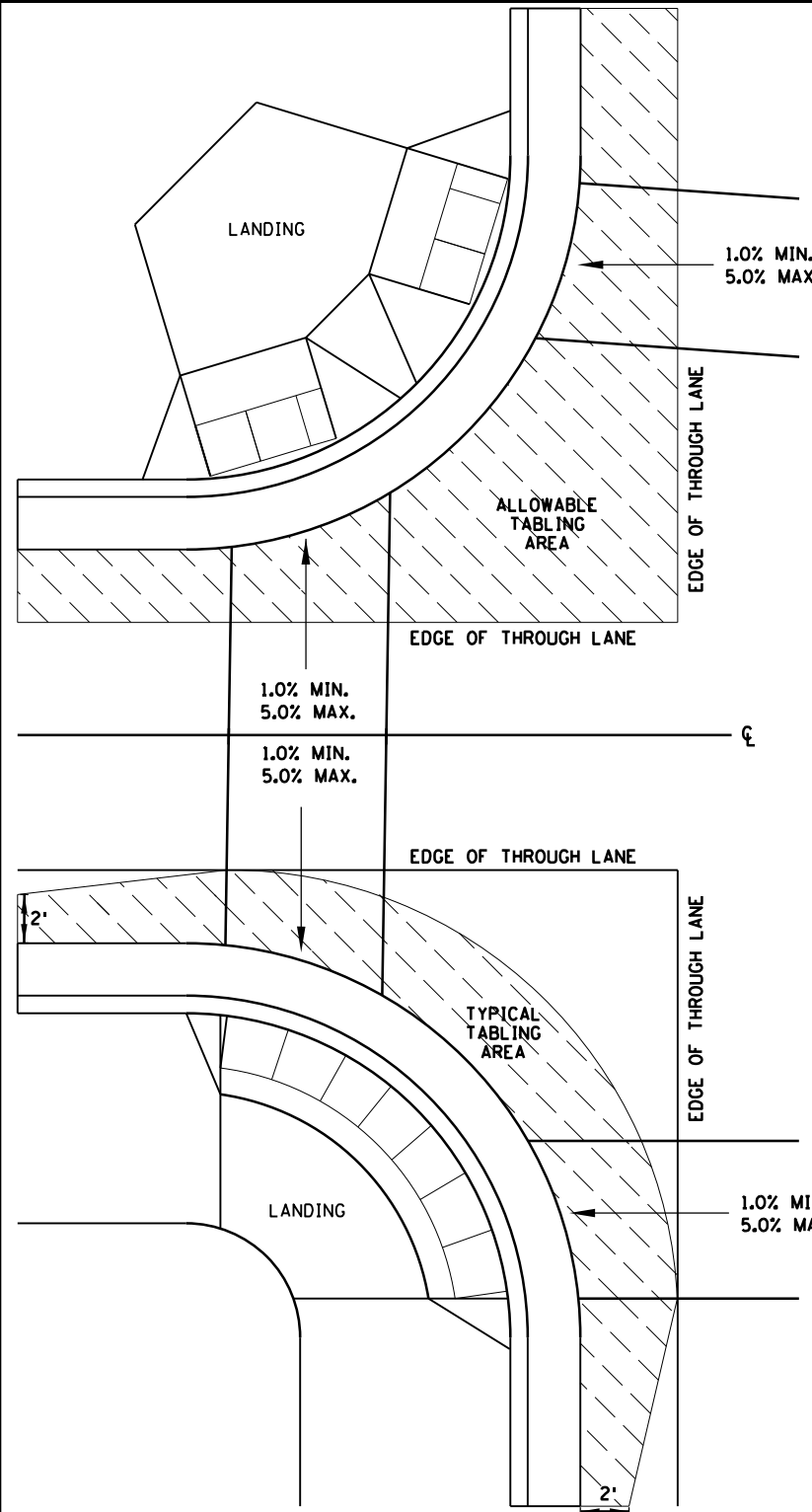
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 1-23-2017

**PEDESTRIAN CURB RAMP DETAILS**

**STANDARD PLAN 5-297.250**

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**CURB LINE AND ROAD CROSSING ADJUSTMENTS**

"TABLING" OF CROSSWALKS MEANS MAINTAINING LESS THAN 2% CROSS SLOPE WITHIN A CROSSWALK, IS REQUIRED WHEN A ROADWAY IS IN A STOP OR YIELD CONDITION AND THE PROJECT SCOPE ALLOWS.

RECONSTRUCTION PROJECTS: ON FULL PAVEMENT REPLACEMENT PROJECTS "TABLING" OF ENTIRE CROSSWALK SHALL OCCUR WHEN FEASIBLE.

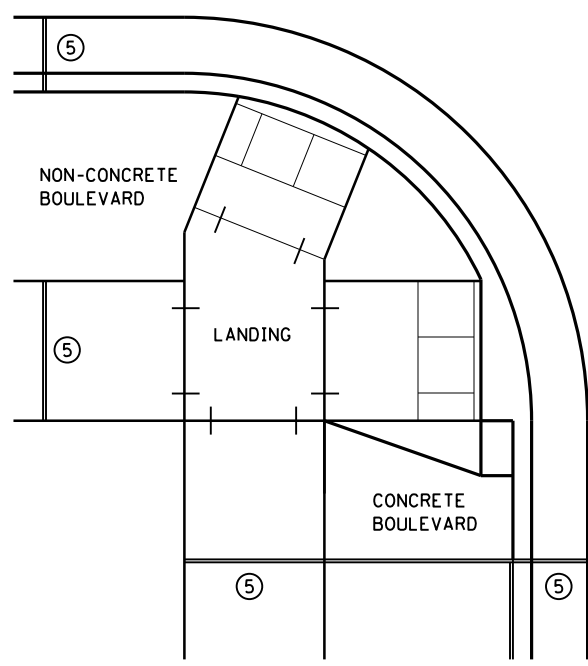
MILL & OVERLAY PROJECTS: "TABLING" OF FLOW LINES, IN FRONT OF THE PEDESTRIAN RAMP, IS REQUIRED WHEN THE EXISTING FLOW LINE IS GREATER THAN 2%. WARPING OF THE BITUMINOUS PAVEMENT CAN NOT EXTEND INTO THE THROUGH LANE. TABLE THE FLOW LINE TO 2% OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

- 1) 1.0% MIN. CROSS-SLOPE OF THE ROAD
- 2) 5.0% MAX. CROSS-SLOPE OF THE ROAD
- 3) "TABLE" FLOW LINE UP TO 4% CHANGE FROM EXISTING SLOPE IN FRONT OF PEDESTRIAN RAMP
- 4) UP TO 2% CHANGE IN FLOW LINE FROM EXISTING SLOPE BEYOND THE PEDESTRIAN CURB RAMP

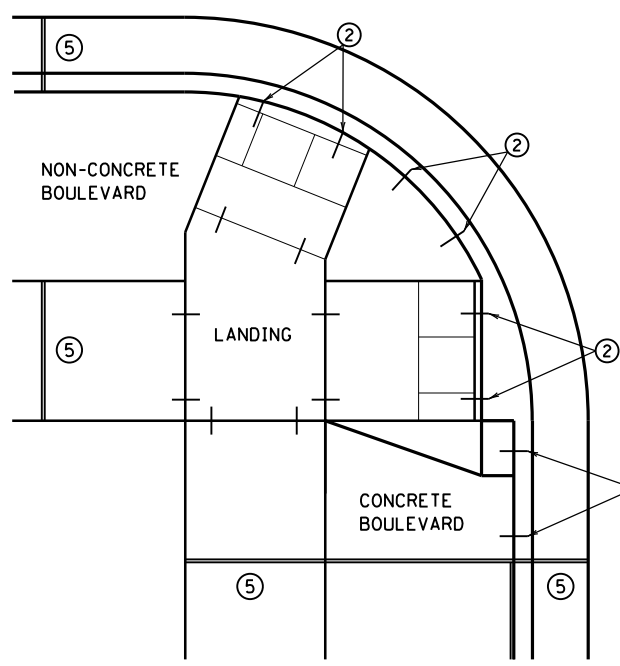
STAND-ALONE ADA RETROFITS: FOLLOW MILL & OVERLAY CRITERIA ABOVE HOWEVER ALL PAVEMENT WARPING IS DONE WITH BITUMINOUS PATCHING ON BITUMINOUS ROADWAYS AND FULL-DEPTH APRON REPLACEMENT ON CONCRETE ROADWAYS.

RAISING OF CURB LINES SHOULD OCCUR IN VERTICALLY CONSTRAINED AREAS. RAISE THE CURB LINES ENOUGH TO ALLOW COMPLIANT RAMPS OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

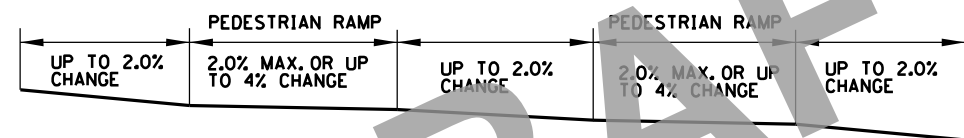
- 1) 1.0% MIN. AND 5.0% MAXIMUM CROSS-SLOPE OF THE ROAD
- 2) 1.0% MIN. FLOW LINE (ON EITHER SIDE OF PEDESTRIAN RAMP) TO MAINTAIN POSITIVE DRAINAGE
- 3) 5.0% RECOMMENDED MAX. FLOW LINE
- 4) LONGITUDINAL THROUGH LANE ROADWAY TAPERS SHOULD BE 1" VERTICAL PER 15' HORIZONTAL



**EXPANSION MATERIAL PLACEMENT FOR CONCRETE AND BITUMINOUS ROADWAYS**



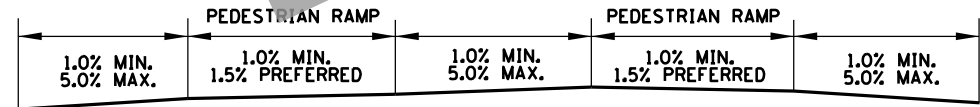
**OPTIONAL CURB LINE REINFORCEMENT PLACEMENT ON BITUMINOUS ROADWAYS**



**FLOW LINE PROFILE "TABLE" - TWIN PERPENDICULARS**



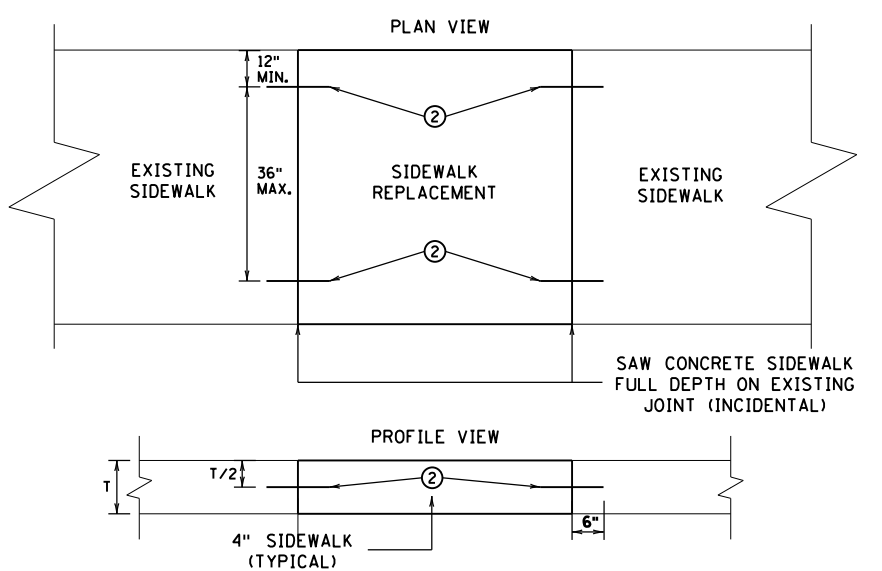
**FLOW LINE PROFILE "TABLE" - FAN**



**FLOW LINE PROFILE RAISE - TWIN PERPENDICULARS**

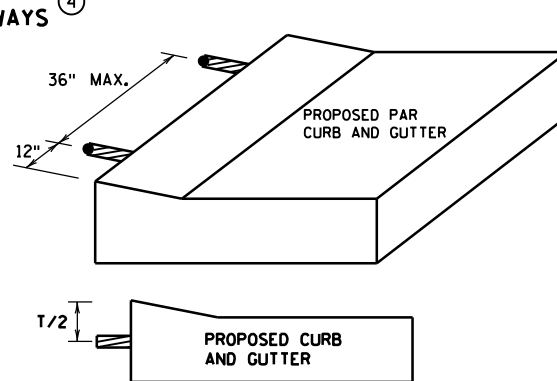


**FLOW LINE PROFILE RAISE - FAN**

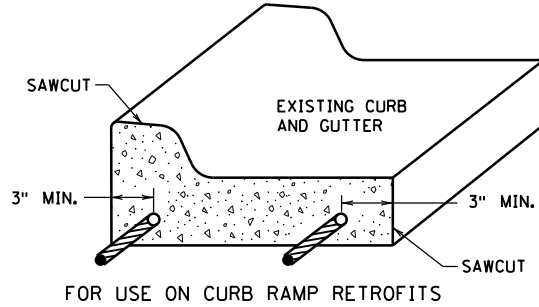


**OPTIONAL SIDEWALK REINFORCEMENT**

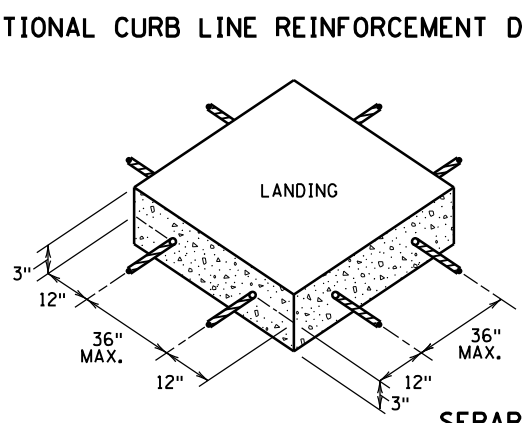
SIDEWALK REINFORCEMENT TO BE USED ONLY WHEN SPECIFIED IN THE PLAN.



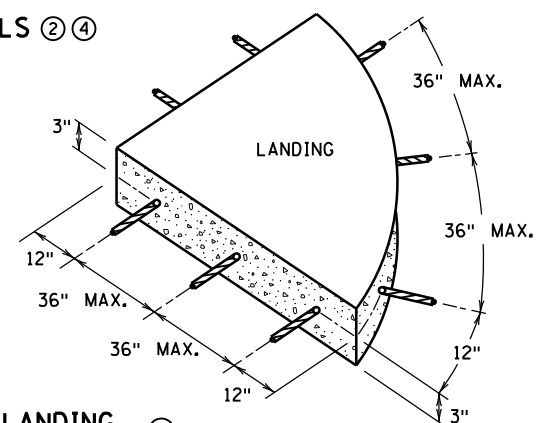
**OPTIONAL CURB LINE REINFORCEMENT DETAILS**



**CURB AND GUTTER REINFORCEMENT**



**SEPARATE LANDING POUR REINFORCEMENT**



**NOTES:**

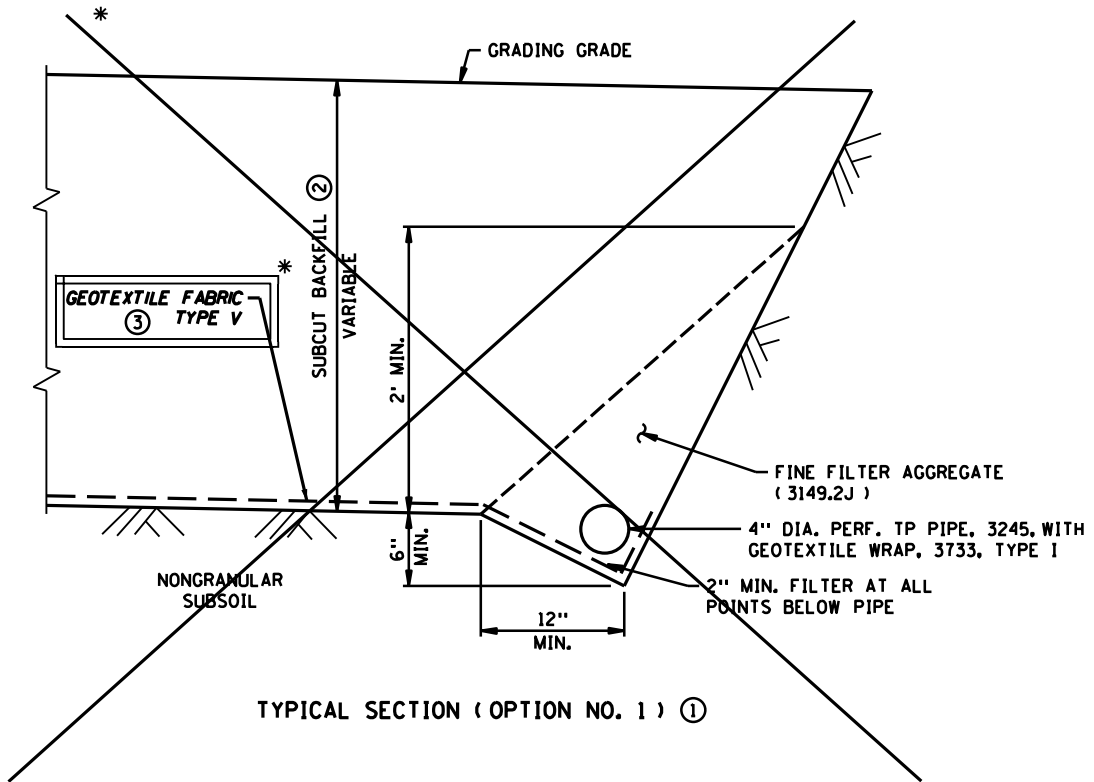
- ① TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON THIS SHEET FOR ALL SEPARATELY Poured INITIAL LANDINGS.
- ② DRILL AND GROUT NO. 4 12" LONG REINFORCEMENT BARS AT 36" MAXIMUM CENTER TO CENTER (EPOXY COATED) BARS TO BE ADJUSTED TO MATCH RAMP GRADE.
- ③ DRILL AND GROUT 2 - NO. 4 X 12" LONG REINFORCEMENT BARS (EPOXY COATED). REINFORCEMENT REQUIRED FOR ALL CONSTRUCTION JOINTS WITHIN RADIUS.
- ④ THIS OPTIONAL CURB LINE REINFORCEMENT DETAIL SHOULD ONLY BE USED ON BITUMINOUS ROADWAYS WHEN SPECIFIED IN THE PLAN.
- ⑤ 1/2 IN. PREFORMED JOINT FILLER MATERIAL PER MNDOT SPEC. 3702.

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 APPROVED: JANUARY 23, 2017  
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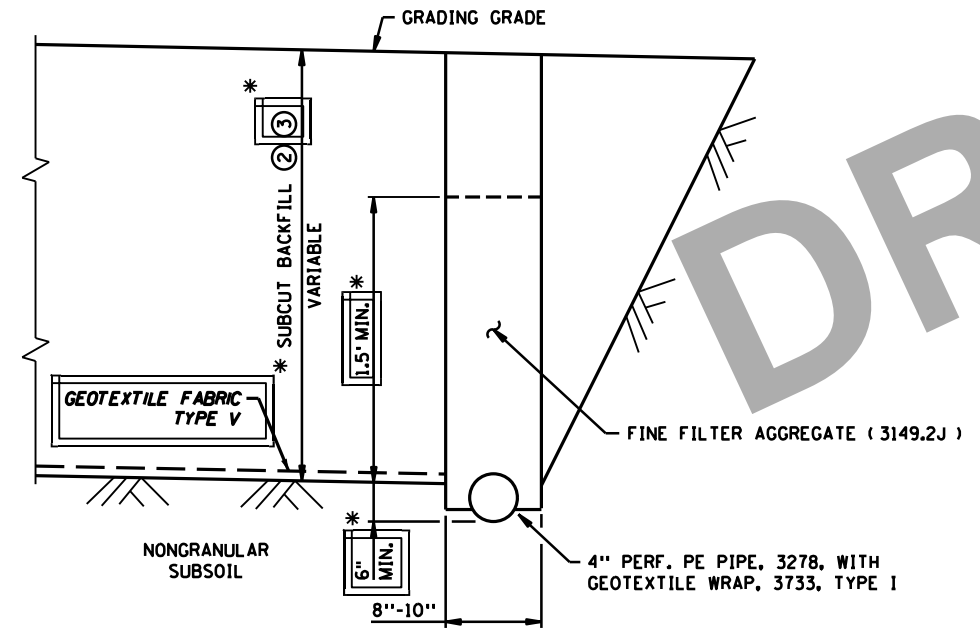
MINNESOTA DEPARTMENT OF TRANSPORTATION  
 STATE DESIGN ENGINEER  
 1-23-2017

REVISOR:  
 APPROVED:  
**PEDESTRIAN CURB RAMP DETAILS**  
**STANDARD PLAN 5-297.250**  
**6 OF 6**

DATE: 7/28/2017 TIME: 9:33:36 AM  
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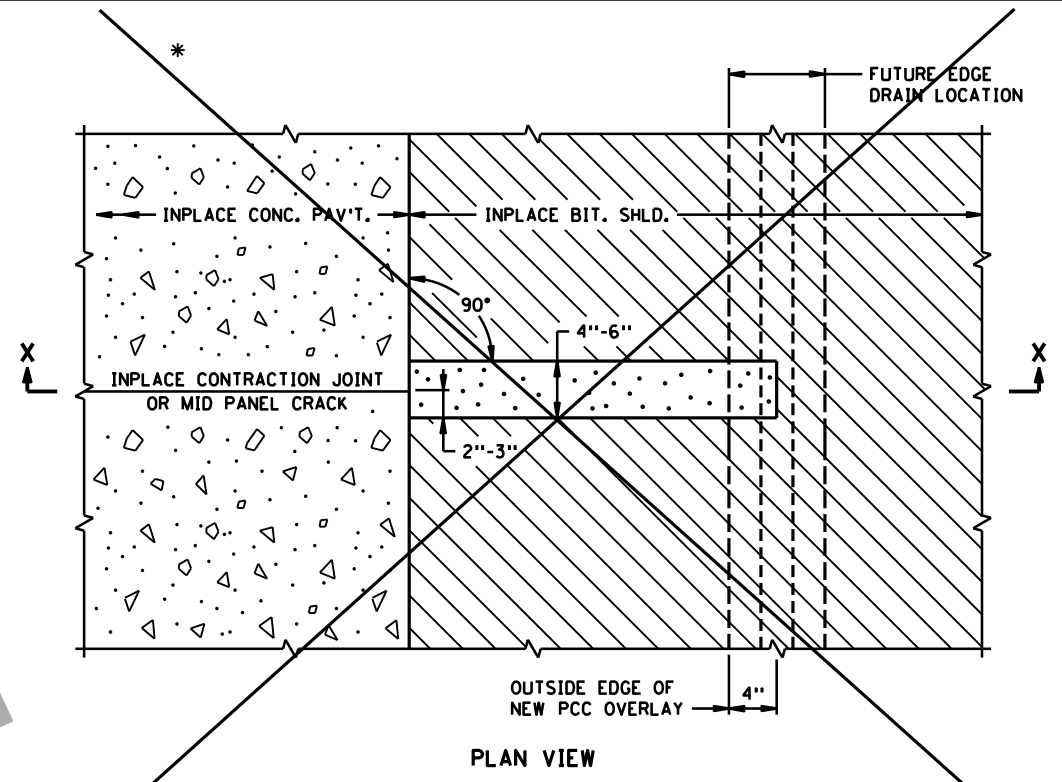
TYPICAL SECTION (OPTION NO. 1) ①



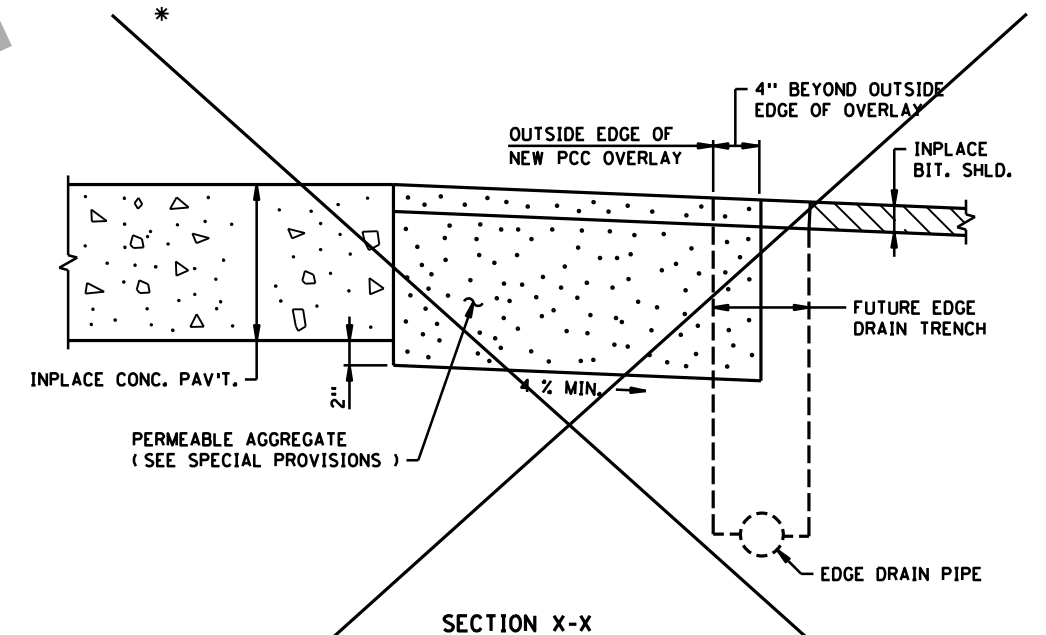
TYPICAL SECTION (OPTION NO. 2) ①  
 SUBSURFACE DRAIN, SUBCUT DRAIN TYPE

- NOTES:
- ① MAY NEED TO BE MODIFIED FOR SPECIFIC PROJECTS. SEE SPECIAL PROVISIONS FOR MATERIAL AND CONSTRUCTION DETAILS. OPTION NO. 2 MAY ONLY BE USED WHEN PIPE IS TO BE PLACED BY MACHINE TRENCHER.
  - ② GRANULAR, SELECT GRANULAR OR SELECT GRANULAR MODIFIED. (AS SHOWN IN DESIGN RECOMMENDATION LETTER).
  - ③ SELECT GRANULAR EMBANKMENT SHALL BE COMPLETED PRIOR TO TRENCHING IN THE PE PIPE DRAIN. PROVIDE TEMPORARY OUTLETS AS NEEDED TO PROVIDE DRAINAGE FOR THE SELECT GRANULAR MATERIAL (INCIDENTAL).\*

\* DENOTES MODIFICATION FROM STANDARD PLAN



PLAN VIEW



SECTION X-X  
 INTERCEPTOR DRAIN DETAIL ①

- NOTE:
- ① SEE SPECIAL PROVISIONS FOR MATERIAL AND CONSTRUCTION DETAILS.

MODIFIED

REVISION:  
 APPROVED: 8-6-2014  
 DIRECTOR, OFFICE OF MATERIALS AND ROAD RESEARCH

DRAWN BY: BAK  
 DESIGNED BY: CCA  
 CHECKED BY: CCA

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
 PRINTED NAME: CANDACE C. AMBERG  
 DATE: 7/28/2017 LIC. NO. 40646



MINNESOTA DEPARTMENT OF TRANSPORTATION  
 TH 22 LANDSCAPING FROM THE  
 CITY OF MAPLETON TO MANKATO



REVISOR:  
 APPROVED: 8-6-2014  
 STATE DESIGN ENGINEER

SUBSURFACE DRAINS  
 STANDARD PLAN 5-297.430 1 OF 1

STANDARD PLANS

STATE PROJ. NO. 0704-110 (T.H. 22)  
 Sheet No. 133 of 133 Sheets