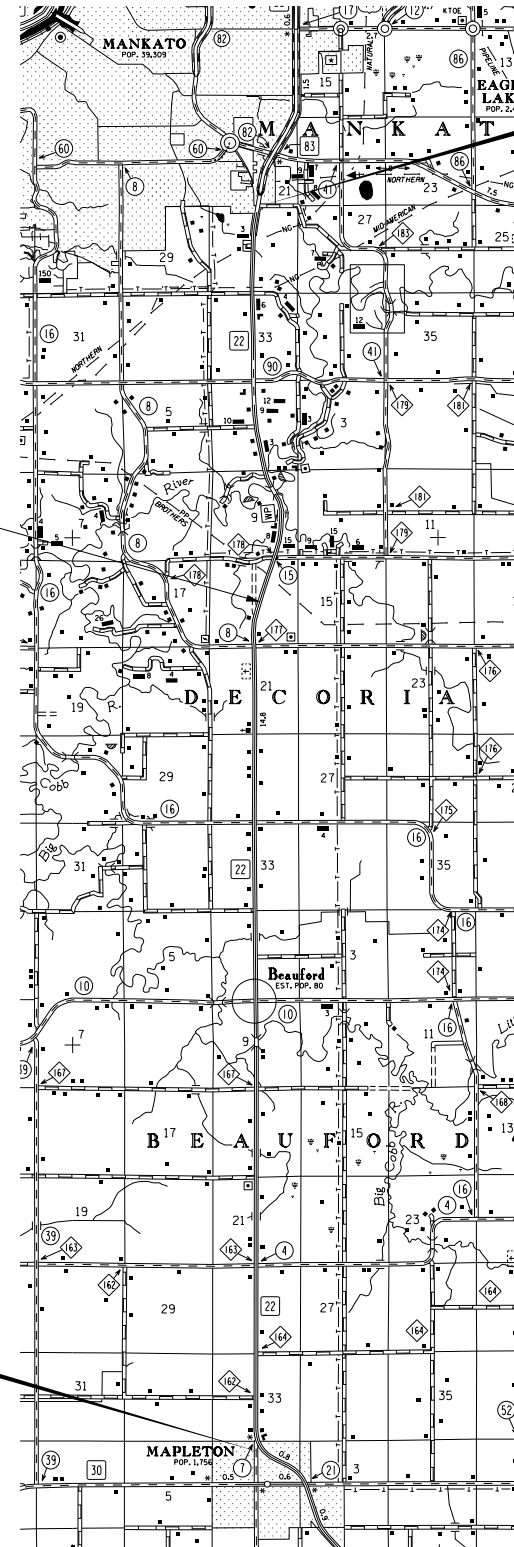


MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS SURFACING, LANDSCAPING, AND ADA IMPROVEMENTS

LOCATED ON TH 22 FROM CENTRAL AVENUE N TO 206TH STREET

STATE PROJ. NO. 0704-110
 GROSS LENGTH 76123.70 FEET 14.41 MILES
 BRIDGES-LENGTH _____ FEET _____ MILES
 EXCEPTIONS-LENGTH _____ FEET _____ MILES
 NET LENGTH 76123.70 FEET 14.41 MILES
 REF. POINT 35+00.470 TO REF. POINT 49+00.887

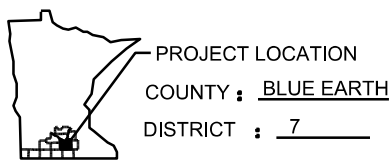


WARNING
HIGH-PRESSURE PIPELINE(S)
 Excavation and/or Construction Prohibited
 Without compliance with State One-Call, AND
 Without Written Permission From
 MAGELLAN PIPELINE COMPANY, L.P.

DATE: 4/6/2018 TIME: 12:26:02 PM
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BEGIN S.P. 0704-110 (T.H. 22)
 STA 70+00.00

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



FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL

PROJ. NO.	CHARGE IDENTIFIER

FED. PROJ. NO. _____ STATE FUNDS _____

GOVERNING SPECIFICATIONS
 THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION
 "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2 - 5	GENERAL LAYOUT
6 - 8	ESTIMATED QUANTITIES
9	PLANT TABULATION
10 - 20	UTILITY TABULATION
21 - 42	REMOVAL PLAN
43 - 112	LANDSCAPE PLAN
113	MAPLETON LAYOUT PLAN
114	MAPLETON GRADING AND UTILITIES PLAN
115 - 116	MISCELLANEOUS DETAILS
117 - 129	STANDARD PLANS
130 - 131	SWPPP

THIS PLAN CONTAINS 131 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 _____	DISTRICT TRANSPORTATION ENGINEER	20
RECOMMENDED FOR APPROVAL _____	PRINCIPAL LANDSCAPE ARCHITECT	20
RECOMMENDED FOR APPROVAL _____	STATE PRE-LETTING ENGINEER	20
OFFICE OF LAND MANAGEMENT APPROVAL _____	DIRECTOR, OFFICE OF LAND MANAGEMENT	20
APPROVED _____	STATE DESIGN ENGINEER	20

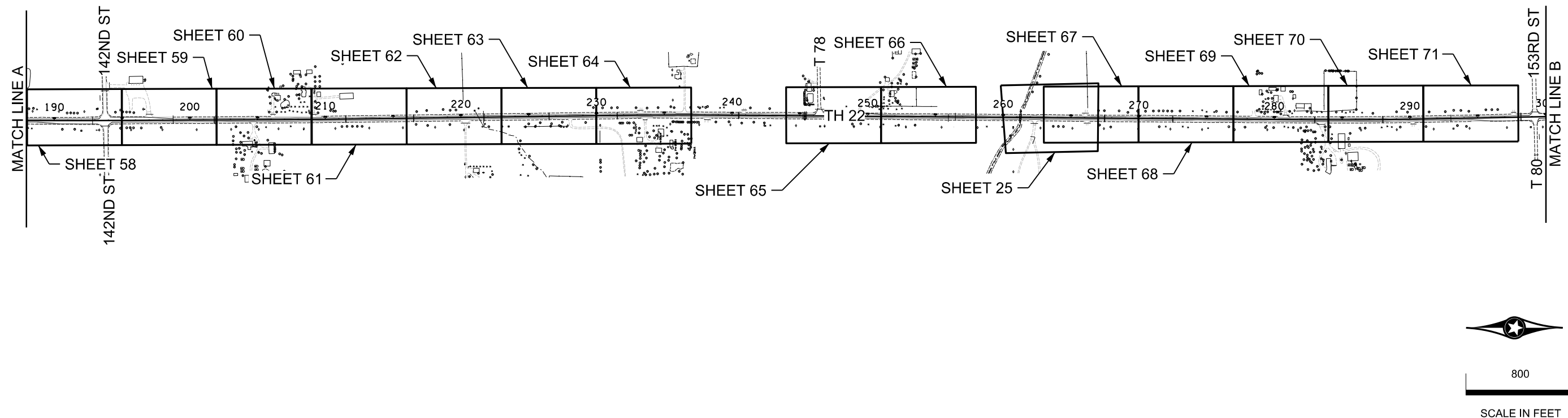
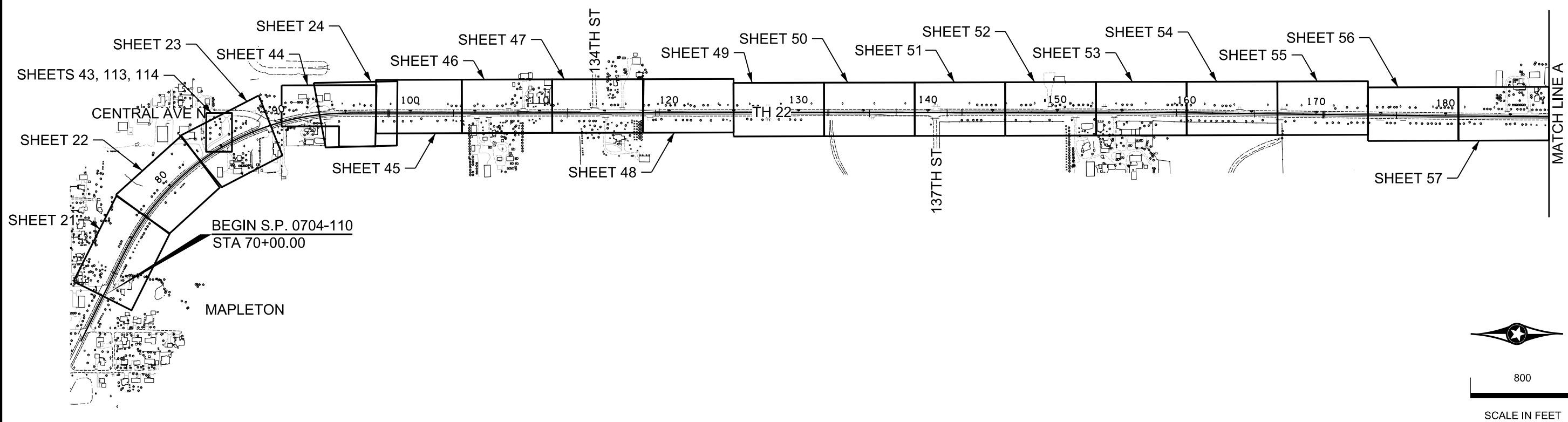
I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: _____ LICENSE # _____

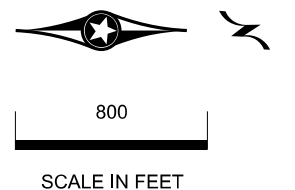
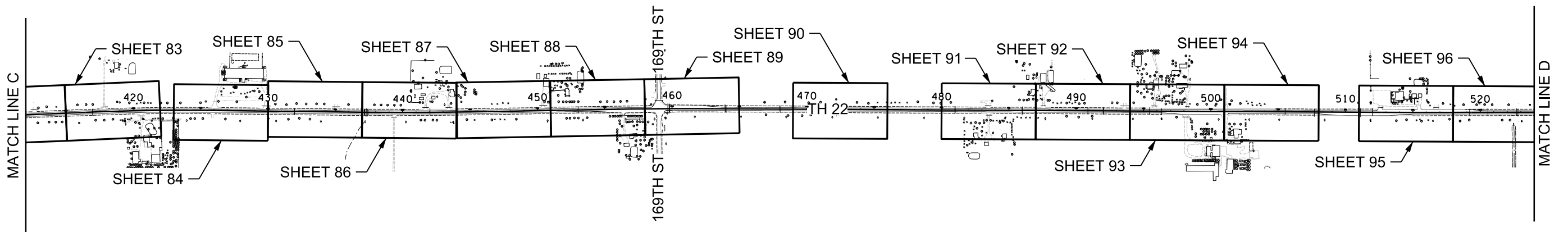
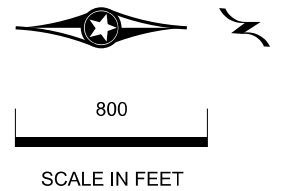
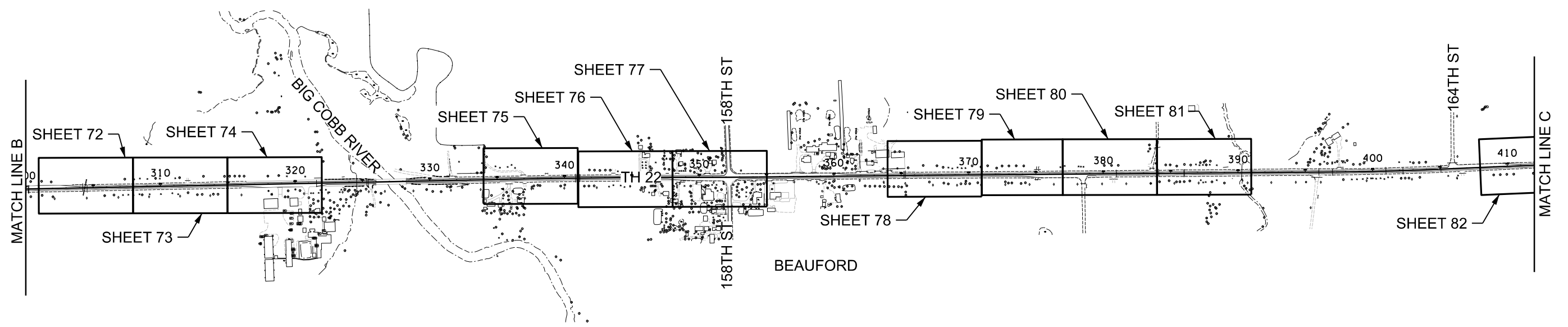
DATE: _____ SIGNATURE: _____

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER

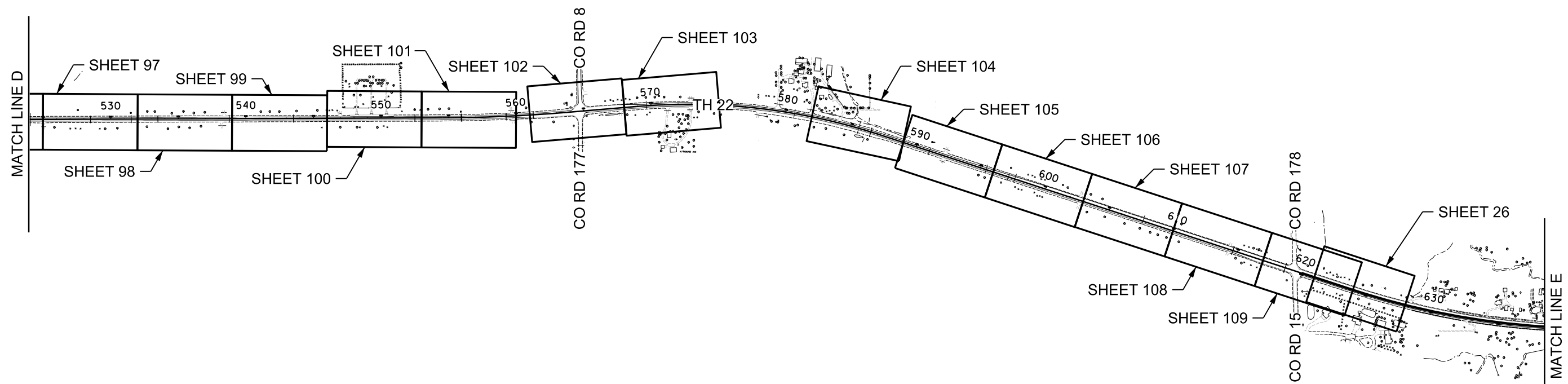
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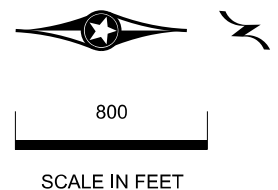
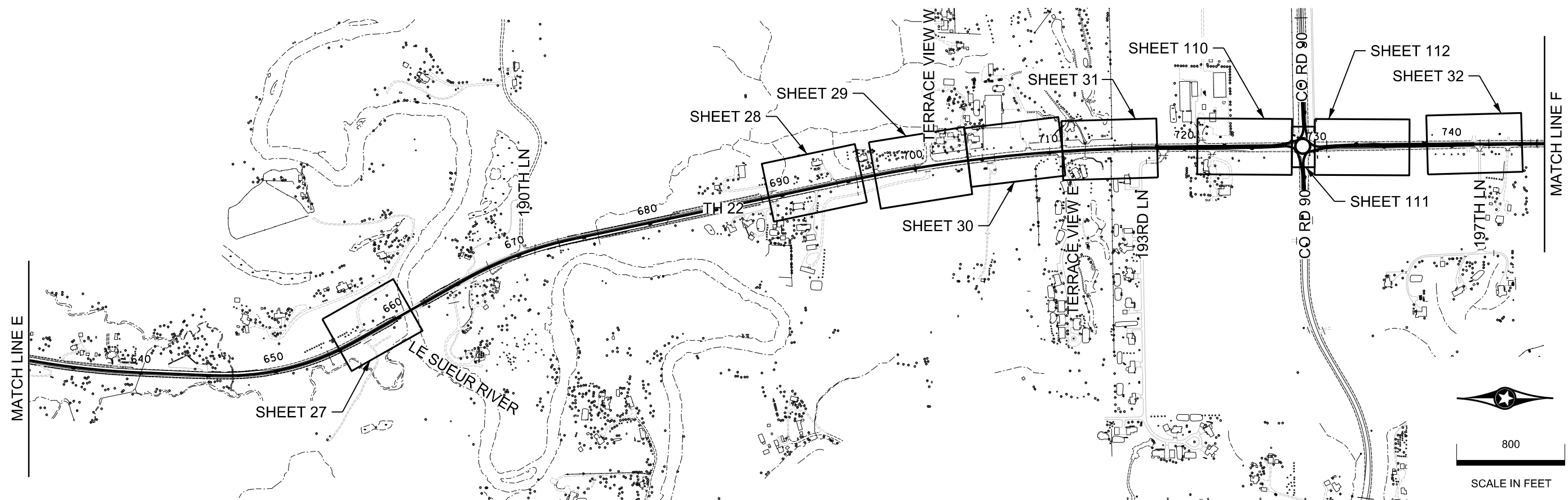
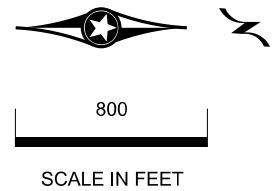
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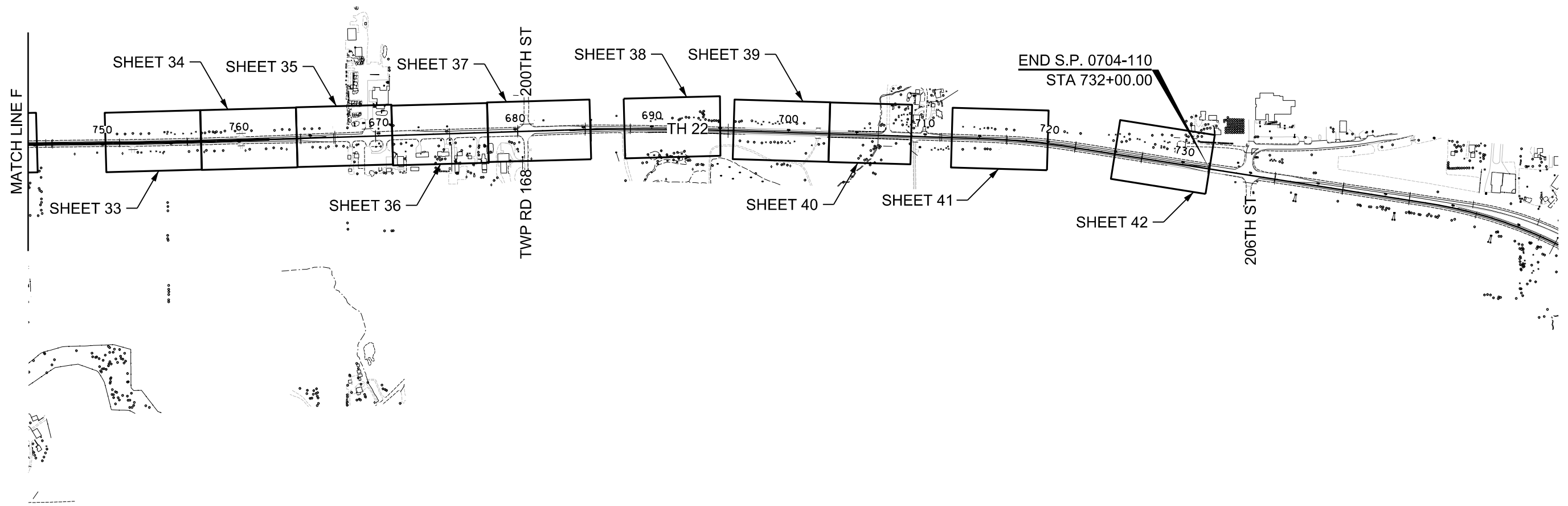
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WARNING
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 Without compliance with State One-Call, AND
 Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.



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800

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: 4/6/2018 LIC. NO. 40646



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



GENERAL LAYOUT

STATE PROJ. NO. 0704-110 (T.H. 22)

Sheet No. 5 of 131 Sheets

DATE: 4/6/2018 TIME: 12:26:13 PM
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STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNITS	ESTIMATED	ESTIMATED	ESTIMATED
			PROJECT TOTAL	S.P. 0704-110 (A)	100% CITY FUNDS (B)
2021.501	MOBILIZATION ①	LUMP SUM	1	0.89	0.11
2101.505	CLEARING	ACRE	2	2	
2101.505	GRUBBING	ACRE	2	2	
2101.524	CLEARING	TREE	88	87	1
2101.524	GRUBBING	TREE	88	87	1
2104.518	REMOVE CONCRETE PAVEMENT	SQ FT	300	300	
2104.518	REMOVE BITUMINOUS PAVEMENT	SQ FT	7060	3530	3530
2105.504	GEOTEXTILE FABRIC TYPE 5	SQ YD	860		860
2105.507	COMMON EXCAVATION	CU YD	1000		1000
2105.507	SELECT GRANULAR BORROW (CV)	CU YD	300		300
2123.610	STREET SWEEPER (WITH PICKUP BROOM)	hour	40	30	10
2211.507	AGGREGATE BASE (CV) CLASS 6 ②	CU YD	165		165
2301.504	CONCRETE PAVEMENT 4"	SQ YD	250		250
2360.504	TYPE SP 12.5 WEARING COURSE MIX (4,E) ③	SQ YD	780	390	390
2502.502	6" PRECAST CONCRETE HEADWALL	EACH	1	1	
2502.503	6" PERF TP PIPE DRAIN	LIN FT	275	275	
2502.602	6" PVC PIPE DRAIN CLEANOUT	EACH	3	3	
2503.503	6" PVC PIPE SEWER	LIN FT	80	80	
2506.502	CONST DRAIN STRUCTURE DES D1 CONC 6"	EACH	2	2	
2531.504	7" CONCRETE DRIVEWAY PAVEMENT	SQ YD	33		33
2531.603	PRECAST CONCRETE CURB DESIGN SPECIAL	LIN FT	126	126	
2531.618	TRUNCATED DOMES	SQ FT	16	16	
2540.601	STONE MONUMENT	LUMP SUM	1	1	
2540.602	FLAGPOLE	EACH	1		1
2545.501	LIGHTING SYSTEM ④	LUMP SUM	1	0.5	0.5
2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.95	0.05
2564.618	SIGN TYPE C ⑤	SQ FT	2		2

- (A) FUNDING NOTE: 100% STATE FUNDS
- (B) FUNDING NOTE: SEE AGREEMENT NO. 1030931 WITH THE CITY OF MAPLETON

PROJECT NOTES:

- ① NOT TO EXCEED 5% CONSTRUCTION BUDGET
- ② CLASS 5Q ACCEPTABLE SUBSTITUTION
- ③ TO BE PLACED IN TWO (2) 1.5" LIFTS
- ④ SEE PLAN SHEET 114 FOR LIGHTING SYSTEM
- ⑤ SIGN TO BE AN R7-8M WITH R7-8B

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: 4/6/2018 LIC. NO. 40646



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



ESTIMATED QUANTITIES

STATE PROJ. NO. 0704-110 (T.H. 22)

Sheet No. 6 of 131 Sheets

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STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNITS	ESTIMATED	ESTIMATED	ESTIMATED
			PROJECT TOTAL	S.P. 0704-110 (A)	100% CITY FUNDS (B)
2571.524	CONIFEROUS TREE 6' HT B&B	TREE	31	31	
2571.524	CONIFEROUS TREE 8' HT B&B	TREE	75	75	
2571.524	CONIFEROUS TREE 12' HT B&B	TREE	4	4	
2571.524	ORNAMENTAL TREE 1.5" CAL B&B	TREE	338	338	
2571.524	DECIDUOUS TREE 1.5" CAL B&B	TREE	40	40	
2571.524	DECIDUOUS TREE 2" CAL B&B	TREE	87	87	
2571.524	DECIDUOUS TREE SEEDLING 24" HT	TREE	20	20	
2571.524	TRANSPLANT TREE (SPADE SIZE 90")	TREE	10	10	
2571.525	DECIDUOUS SHRUB 15" HT CONT	SHRUB	155	155	
2571.527	ORNAMENTAL GRASS NO 1CONT	PLANT	449	449	
2571.527	PERENNIAL 4" CONT	PLANT	2407	2407	
2571.527	PERENNIAL PLUGS	PLANT	680	680	
2571.604	GEOTEXTILE WEED BARRIER FABRIC	SQ YD	1700	1700	
2572.503	TEMPORARY FENCE	LIN FT	350		350
2572.510	PRUNE TREES	HOUR	40	40	
2573.502	STORM DRAIN INLET PROTECTION	EACH	8	8	
2573.503	SILT FENCE, TYPE MS	LIN FT	300		300
2573.504	EROSION CONTROL BLANKET CATEGORY 3	SQ YD	2500	2500	
2575.505	MOWING	ACRE	70	65	5
2575.505	WEED SPRAYING	ACRE	35	33	2
2575.506	WEED SPRAY MIXTURE	GALLON	2.70	2.50	0.20
2575.508	HYDRAULIC MULCH MATRIX	POUND	5200	4800	400
2575.508	SEED MIXTURE 25-131	POUND	113		113
2575.508	SEED MIXTURE 35-241	POUND	73	73	
2575.605	SEED MIXTURE SPECIAL	POUND	136	136	
2582.503	4" SOLID LINE PAINT	LIN FT	460	460	
2582.518	PAVT MSSG PAINT	SQ FT	19	19	

PROJECT NOTES:

- ① TREES SHALL BE 4" CALIPER OR BETTER IN SIZE
- ② REFER TO SPEC FOR SPECIFIC SPECIES QUANTITIES
- ③ KRAFT PAPER, (2) LAYERS THICK
- ④ TREE PROTECTION FENCE
- ⑤ TYPE 2(N)
- ⑥ SPRAY SHALL CONSIST OF 40.9% ACTIVE INGREDIENT OF CLOPYRALID
- ⑦ 4" WIDE LINES, WHITE
- ⑧ 36"x40" INTERNATIONAL SYMBOL OF ACCESSIBILITY, WHITE AND 12" HEIGHT "NO PARKING" TEXT, WHITE COLOR

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: 4/6/2018 LIC. NO. 40646



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



ESTIMATED QUANTITIES

STATE PROJ. NO. 0704-110 (T.H. 22)
 Sheet No. 7 of 131 Sheets

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GENERAL NOTES:

1. ALL PROPOSED PLANTINGS SHALL BE STAKED BY CONTRACTOR FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND PROJECT ENGINEER AFTER ALL UTILITIES ARE MARKED BUT PRIOR TO APPLICATION OF HERBICIDE OR PLANTING BED PREPARATIONS FOR ADJUSTMENTS.
2. ALL TREE REMOVALS TO BE MARKED BY LANDSCAPE ARCHITECT IN FIELD PRIOR TO REMOVAL OPERATIONS. THE CONTRACTOR TO BEGIN REMOVALS AFTER APPROVAL BY LANDSCAPE ARCHITECT AND WILL BE RESPONSIBLE TO REPLACE ANY TREES THAT ARE TO REMAIN THAT ARE REMOVED OR DAMAGED, AT CONTRACTOR'S EXPENSE.
3. ALL AREAS INDICATED ON REMOVAL PLANS FOR CLEARING OF VEGETATION (SHRBS, DECIDUOUS/CONIFEROUS, TREES AND HERBACEOUS VEGETATION) TO STAY WITHIN ALL RIGHT-OF-WAY LIMITS AND TO INCLUDE RESTORATION OF ALL DISTURBED AREAS WITH SEED MIX 35-241 INCLUDING FERTILIZER AND HYDRAULIC MULCH COVER.
4. ALL AREAS INDICATED ON LANDSCAPE PLANS TO RECEIVE SEED MIXTURE SPECIAL TO INCLUDE NECESSARY REMOVAL OF EXISTING HERBACEOUS VEGETATION AND SEED BED PREPARATION PRIOR TO INSTALLATION OF SEED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL AREAS DISTURBED BY CONTRACTOR OUTSIDE OF AREAS DESIGNATED ON PLAN SHEETS TO BE RESTORED AT CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL NOT BE ALLOWED WITHIN ANY EXISTING TREE DRIP LINES AND CHEMICALS SHALL NOT BE ALLOWED WITHIN 10 FEET OF EXISTING TREE DRIP LINES. ANY TREES DAMAGED TO BE REPLACED AT CONTRACTOR'S EXPENSE.
7. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH MMUTCD FOR DURATION OF PROJECT.
8. OPERATE TILLING EQUIPMENT A MINIMUM OF 10' CLEAR OF EXISTING TREES UNLESS AUTHORIZED BY THE ENGINEER/LANDSCAPE ARCHITECT.
9. COMPLETE ALL TILLING USING A SPADE TYPE TILLER OR APPROVED EQUAL THAT WILL PROVIDE A MINIMUM 12" DEPTH.
10. SEE PLANT STOCK TABULATION FOR INDIVIDUAL PLANT QUANTITIES.
11. CONTRACTOR TO ADHERE TO ALL NPDES AND SWPPP REQUIREMENTS THROUGHOUT CONSTRUCTION AND AS IDENTIFIED ON PLANS AND DETAILS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, EROSION CONTROL FENCE SHOWN ON PLANS AND INLET CONTROL IN ALL CATCH BASINS WITHIN THE ROUNDABOUT LOCATION (INLET CONTROL LOCATIONS ARE NOT SPECIFICALLY IDENTIFIED ON PLANS).

THE FOLLOWING STANDARD PLATES APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT:

MNDOT STANDARD PLATES	
PLATE NO.	DESCRIPTION
3131C	PRECAST CONCRETE HEADWALL FOR SUBSURFACE DRAINS
4025B	DROP INLETS OR CATCH BASINS - DESIGN DI

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PLANT STOCK TABULATION S.P. 0704-110 (T.H. 22)				
KEY	SPECIES	MINIMUM ACCEPTABLE DIMENSIONS	UNITS	TOTAL QUANTITY
	CONIFEROUS TREE 6'HT B&B	5.5' Ht., 2.5' Spread, 20" root spread & 13.5' depth	TOTAL	31
BLF_6'	FIR, BALSAM <i>ABIES BALSAMEA</i>		TREE	3
ERC_6'	CEDAR, EASTERN RED <i>JUNIPERUS VIRGINIANA</i>		TREE	8
NWS_6'	SPRUCE, NORWAY <i>PICEA ABIES</i>		TREE	20
	CONIFEROUS TREE 8'HT B&B	7.5' Ht., 2.5' Spread, 20" root spread & 13.5' depth	TOTAL	75
BHS_8'	SPRUCE, BLACK HILLS <i>PICEA GLAUCA 'DENSATA'</i>		TREE	61
AUP_8'	PINE, AUSTRIAN <i>PINUS NIGRA</i>		TREE	14
	CONIFEROUS TREE 12'HT B&B	7.5' Ht., 2.5' Spread, 20" root spread & 13.5' depth	TOTAL	4
BHS_12'	SPRUCE, BLACK HILLS <i>PICEA GLAUCA 'DENSATA'</i>		TREE	4
	DECIDUOUS TREE 1.5" CAL B&B	1.35 Cal., 6.5' Ht., 22" root spread	TOTAL	40
SIM_1.5"	MAPLE, SIENNA GLEN <i>ACER X FREEMANII 'SIENNA'</i>		TREE	18
AHH_1.5"	HOPHORNBEAM, AMERICAN <i>OSTRYA VIRGINIANA</i>		TREE	22
	DECIDUOUS TREE 2" CAL B&B	1.75 Cal., 7' Ht., 24" root spread	TOTAL	87
SWO_2"	OAK, SWAMP WHITE <i>QUERCUS BICOLOR</i>		TREE	3
DSE_2"	ELM, DISCOVERY <i>ULMUS DAVIDIANA DISCOVERY</i>		TREE	12
CHB_2"	HACKBERRY, COMMON <i>CELTIS OCCIDENTALIS</i>		TREE	9
AGG_2"	GINKGO MAIDENHAIR TREE <i>GINKGO BILOBA 'AUTUMN GOLD' TM</i>		TREE	14
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS <i>GLEDITSIA TRICANTHOS INERMIS 'HARVE' TM</i>		TREE	24
KCT_2"	COFFEETREE, KENTUCKY <i>GYMNOCLADUS DIOICA</i>		TREE	25
	TRANSPLANT TREE (SPADE SIZE 90")	3.5" Cal., 9' Ht. - 14' Ht.	TOTAL	10
ASM_4"	MAPLE, ARMSTRONG FREEMAN <i>ACER X FREEMANII 'ARMSTRONG'</i>		TREE	5
NAH_4"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS <i>GLEDITSIA TRICANTHOS INERMIS 'HARVE' TM</i>		TREE	5
	DECIDUOUS TREE 24" HT SEEDLING	1.5' Ht., 1/8" Cal., 10" root length	TOTAL	20
AHH_2'	HOPHORNBEAM, AMERICAN <i>OSTRYA VIRGINIANA</i>		TREE	1
SWO_2'	OAK, SWAMP WHITE <i>QUERCUS BICOLOR</i>		TREE	8
BRO_2'	OAK, BUR <i>QUERCUS MACROCARPA</i>		TREE	11

PLANT STOCK TABULATION S.P. 0704-110 (T.H. 22)				
KEY	SPECIES	MINIMUM ACCEPTABLE DIMENSIONS	UNITS	TOTAL QUANTITY
	ORNAMENTAL TREE 1.5" CAL B&B	1.35 Cal., 6.5' Ht., 22" root spread	TOTAL	338
FFC_1.5"	CRABAPPLE, FIREBIRD <i>MALUS SARGENTII 'SELECTA'</i>		TREE	5
ARC_1.5"	CRABAPPLE, ADIRONDACK <i>MALUS X 'ADIRONDACK'</i>		TREE	34
PRC_1.5"	CRABAPPLE, PRAIRIFIRE <i>MALUS X 'PRAIRIFIRE'</i>		TREE	99
TCH_1.5"	HAWTHORN, THORNLESS <i>CRATAEGUS CRUS-GALI 'INERMIS'</i>		TREE	76
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE <i>SYRINGA RETICULATA 'IVORY SILK'</i>		TREE	56
MAG_1.5"	MAGNOLIA <i>MAGNOLIA X STELLATA (ROYAL STAR)</i>		TREE	1
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE <i>AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'</i>		TREE	67
	DECIDUOUS SHRUB 15" HT CONT	13.5" Ht., 9" root spread	TOTAL	155
ROD_5 CONT	DOGWOOD, RED OSIER <i>CORNUS SERICEA</i>		SHRUB	8
CFE_5 CONT	EUONYMUS, CHICAGO FIRE <i>EUONYMUS ALATUS</i>		SHRUB	6
ABH_5 CONT	HYDRANGEA, ANNABELLE SMOOTH <i>HYDRANGEA ARBORESCENS 'ANNABELLE'</i>		SHRUB	120
SVB_5 CONT	SPIRAEA, BRIDALWREATH <i>SPIRAEA X VANHOUTTEI</i>		SHRUB	21
	PERENNIAL 4" CONT	4" spread	TOTAL	2407
FSL_4"	FALSE INDIGO, PURPLE SMOKE <i>BAPTISIA X 'PURPLE SMOKE'</i>		SHRUB	35
FPPC_4"	CONEFLOWER, PURPLE <i>ECHINACEA PURPUREA</i>		PLANT	584
FDWC_4"	CONEFLOWER, DWARF WHITE <i>ECHINACEA BABY WHITE SWAN</i>		PLANT	676
FSSD_4"	DAYLILY, STELLA SUPREME <i>HEMEROCALLIS X 'STELLA SUPREME'</i>		PLANT	365
FSGF_4"	GAYFEATHER, SPIKE <i>LIATRIS SPICATA 'KOBOLD'</i>		PLANT	95
FRBB_4"	RED BEE BALM <i>MONDARDA FISTULOSA</i>		PLANT	60
FBES_4"	BLACK-EYED SUSAN <i>RUDBECKIA HIRTA</i>		PLANT	592
	ORNAMENTAL GRASS NO 1 CONT	6" spread	TOTAL	449
GBLG_NO 1	BLUE GRAMA <i>BOUTELOUA GRACILIS 'BLONDE AMBITION'</i>		PLANT	100
GFRG_NO 1	GRASS, FEATHER REED <i>CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'</i>		PLANT	184
GPRD_NO 1	DROPSEED, PRAIRIE <i>SPOROBOLUS HETEROLEPSIS</i>		PLANT	165

UTILITIES
THE FOLLOWING IS A LIST OF UTILITY COMPANIES INVOLVED IN THIS PROJECT
BENCO ELECTRIC COOPERATIVE
BLUE EARTH COUNTY
CHARTER COMMUNICATIONS
CONSOLIDATED COMMUNICATIONS
FRONTIER COMMUNICATIONS OF MINNESOTA, INC.
GREATER MINNESOTA GAS INC.
MAGELLAN PIPELINE COMPANY, LP
CITY OF MAPLETON ELECTRIC
MIDCONTINENT COMMUNICATIONS
MINNESOTA PIPELINE COMPANY, LLC
XCEL ENERGY
CITY OF MAPLETON
NORTHERN NATURAL GAS
ENTERPRISE PRODUCTS
CENTERPOINT ENERGY
GREAT RIVER ENERGY

UTILITY ABBREVIATIONS
T-BUR = BURIED TELEPHONE LINE
2, T-BUR = BURIED TELEPHONE (2 LINES)
TEL PED = TELEPHONE PEDESTAL
OVERHEAD TEL = OVERHEAD TELEPHONE LINE
F/O BURIED = FIBER OPTIC BURIED
P POLE = POWER POLE
P-BUR = BURIED POWER LINE
OVERHEAD ELEC = OVERHEAD ELECTRIC LINE
L POLE = LIGHT POLE
P METER = POWER METER
P PED = POWER PEDESTAL
TV PED = TELEVISION PEDESTAL
BURIED TV = BURIED TELEVISION

- GENERAL NOTES:**
- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CIASCE 38-02 ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.
 - THE FOLLOWING TABULATIONS SHOW THE EXISTING CONDITIONS, PRIOR TO THE 2017 AND 2018 CONSTRUCTION SEASONS. CONSTRUCTION IN THE REGION MAY HAVE REQUIRED RELOCATION OF UTILITIES NOT SHOWN IN THESE TABULATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE UTILITY COMPANIES. CALL GOPHER STATE ONE CALL AT 1-800-252-1166 AT LEAST 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.
 - ALL UTILITY WORK SHOWN ON THESE UTILITY PLANS SHALL BE DONE BY OTHERS UNLESS OTHERWISE NOTED.
 - THE REMARKS COLUMN IS BASED UPON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT THE ACTUAL EFFECTS ON THE UTILITIES BY CONSTRUCTION. ACTUAL DETERMINATIONS WILL BE MADE IN THE FIELD DURING CONSTRUCTION.

NO UTILITIES WILL BE AFFECTED BY THIS PROJECT.

OWNERSHIP
BENCO = BENCO ELECTRIC COOPERATIVE
BLUE EARTH COUNTY = BLUE EARTH COUNTY
CHARTER = CHARTER COMMUNICATIONS
CONSOLIDATED = CONSOLIDATED COMMUNICATIONS
FRONTIER = FRONTIER COMMUNICATIONS OF MINNESOTA, INC.
GREATER MN GAS = GREATER MINNESOTA GAS INC.
MAGELLAN = MAGELLAN PIPELINE COMPANY, LP
MIDCONTINENT = MIDCONTINENT COMMUNICATIONS
NORTHWEST NATURAL = MINNESOTA PIPE LINE COMPANY, LLC
XCEL = XCEL ENERGY
CITY OF MAPLETON = CITY OF MAPLETON
NORTHWEST NATURAL GAS = NORTHWEST NATURAL GAS, LLC
NORTHERN = NORTHERN NATURAL GAS
ENTERPRISE = ENTERPRISE PRODUCTS
CENTERPOINT = CENTERPOINT ENERGY

UTILITIES TABULATION (SANITATION)							
STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
69+03 TO 70+34	75 LT TO 74 LT	SAN	CITY OF MAPLETON			X	
69+05 TO 70+57	62 RT TO 134 RT	SAN	CITY OF MAPLETON			X	
69+43 TO 70+34	258 LT TO 74 LT	SAN	CITY OF MAPLETON			X	
69+43	258 LT	SAN MH	CITY OF MAPLETON			X	
70+34 TO 73+04	74 LT	SAN	CITY OF MAPLETON			X	
70+34	74 LT	SAN MH	CITY OF MAPLETON			X	
70+57 TO 73+03	62 RT TO 70 RT	SAN	CITY OF MAPLETON			X	
70+57	62 RT	SAN MH	CITY OF MAPLETON			X	
72+74 TO 73+04	128 LT TO 74 LT	SAN	CITY OF MAPLETON			X	
72+74	128 LT	SAN MH	CITY OF MAPLETON			X	
73+03 TO 73+04	74 LT TO 70 RT	SAN	CITY OF MAPLETON			X	
73+04 TO 76+89	101 LT TO 74 LT	SAN	CITY OF MAPLETON			X	
73+03	70 RT	SAN MH	CITY OF MAPLETON			X	
73+04	74 LT	SAN MH	CITY OF MAPLETON			X	
76+64 TO 76+89	236 LT TO 101 LT	SAN	CITY OF MAPLETON			X	
76+64	236 LT	SAN MH	CITY OF MAPLETON			X	
76+89 TO 81+66	101 LT TO 80 LT	SAN	CITY OF MAPLETON			X	
76+89	101 LT	SAN MH	CITY OF MAPLETON			X	
81+66 TO 85+46	80 LT TO 39 LT	SAN	CITY OF MAPLETON			X	
81+66	80 LT	SAN MH	CITY OF MAPLETON			X	
85+46 TO 89+27	78 LT TO 39 LT	SAN	CITY OF MAPLETON			X	
85+46	39 LT	SAN MH	CITY OF MAPLETON			X	
88+99 TO 90+11	28 RT TO 355 RT	SAN	CITY OF MAPLETON			X	
88+99	355 RT	SAN MH	CITY OF MAPLETON			X	
89+10 TO 90+24	355 LT TO 23 LT	SAN	CITY OF MAPLETON			X	
89+10	355 LT	SAN MH	CITY OF MAPLETON			X	
89+27 TO 90+24	78 LT TO 23 LT	SAN	CITY OF MAPLETON			X	
89+27	78 LT	SAN MH	CITY OF MAPLETON			X	
90+11 TO 90+24	23 LT TO 28 RT	SAN	CITY OF MAPLETON			X	
90+11	28 RT	SAN MH	CITY OF MAPLETON			X	
90+24	23 LT	SAN MH	CITY OF MAPLETON			X	

UTILITIES TABULATION (GAS)							
STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
69+04 TO 72+09	52 LT TO 59 LT	GAS	NORTHWEST NATURAL			X	
69+04 TO 70+86	37 RT TO 39 RT	GAS	NORTHWEST NATURAL			X	
70+07 TO 70+76	161 LT TO 31 LT	GAS	NORTHWEST NATURAL			X	
70+76 TO 72+12	48 LT TO 31 LT	GAS	NORTHWEST NATURAL			X	
70+76 TO 70+86	31 LT TO 37 RT	GAS	NORTHWEST NATURAL			X	
72+08 TO 72+13	110 LT TO 44 LT	GAS	NORTHWEST NATURAL			X	
72+13 TO 89+72	49 LT TO 37 LT	GAS	NORTHWEST NATURAL			X	
86+17 TO 86+60	47 RT TO 97 RT	GAS	NORTHWEST NATURAL			X	
87+19 TO 88+07	210 LT TO 165 LT	GAS	NORTHWEST NATURAL			X	
87+65 TO 89+13	49 RT TO 54 RT	GAS	NORTHWEST NATURAL			X	
88+07 TO 89+49	165 LT TO 51 LT	GAS	NORTHWEST NATURAL			X	
89+13 TO 89+76	51 RT TO 54 RT	GAS	NORTHWEST NATURAL			X	
89+49 TO 90+76	51 LT TO 47 LT	GAS	NORTHWEST NATURAL			X	
89+57 TO 89+76	50 RT TO 132 RT	GAS	NORTHWEST NATURAL			X	
89+72 TO 114+63	38 LT TO 66 LT	GAS	NORTHWEST NATURAL			X	
89+73 TO 89+77	41 LT TO 30 LT	GAS	NORTHWEST NATURAL			X	
89+76 TO 90+26	47 RT TO 51 RT	GAS	NORTHWEST NATURAL			X	
89+76 TO 89+77	30 LT TO 50 RT	GAS	NORTHWEST NATURAL			X	
89+84 TO 90+20	47 RT TO 157 RT	GAS	NORTHWEST NATURAL			X	
90+26 TO 92+41	47 RT TO 64 RT	GAS	NORTHWEST NATURAL			X	
92+44 TO 93+24	52 LT TO 44 LT	GAS	NORTHWEST NATURAL			X	
93+24 TO 93+43	44 LT TO 93 LT	GAS	NORTHWEST NATURAL			X	
108+33 TO 108+39	83 RT TO 196 RT	GAS	NORTHWEST NATURAL			X	
108+39 TO 114+95	86 RT TO 67 RT	GAS	NORTHWEST NATURAL			X	
114+94 TO 114+95	67 RT TO 71 LT	GAS	NORTHWEST NATURAL			X	
114+56 TO 114+63	632 LT TO 49 LT	GAS	NORTHWEST NATURAL			X	
114+82 TO 114+94	71 LT	GAS	NORTHWEST NATURAL			X	
114+94	71 LT	GAS	NORTHWEST NATURAL			X	
114+94 TO 115+18	72 LT TO 71 LT	GAS	NORTHWEST NATURAL			X	
115+18 TO 115+32	114 LT TO 72 LT	GAS	NORTHWEST NATURAL			X	
596+55 TO 597+28	101 RT TO 70 LT	GAS	MAGELLAN			X	
617+44 TO 619+00	500 LT TO 50 LT	GAS	GREATER MN GAS			X	
619+00 TO 619+78	50 LT TO 167 RT	GAS	GREATER MN GAS			X	
619+78 TO 620+31	167 RT TO 150 RT	GAS	GREATER MN GAS			X	
620+31 TO 621+47	150 RT TO 274 RT	GAS	GREATER MN GAS			X	
621+18 TO 622+83	399 RT TO 341 RT	GAS	GREATER MN GAS			X	
688+64 TO 689+01	90 LT TO 64 RT	GAS	GREATER MN GAS			X	
688+91 TO 726+47	64 RT TO 69 RT	GAS	GREATER MN GAS			X	
690+24 TO 690+27	66 RT TO 93 RT	GAS	GREATER MN GAS			X	
692+37 TO 692+59	126 RT TO 55 RT	GAS	GREATER MN GAS			X	
692+55 TO 692+79	170 RT TO 56 RT	GAS	GREATER MN GAS			X	
692+95 TO 693+03	57 RT TO 24 LT	GAS	GREATER MN GAS			X	
695+86 TO 696+17	120 LT TO 66 RT	GAS	GREATER MN GAS			X	
701+19 TO 701+52	61 RT TO 213 LT	GAS	GREATER MN GAS			X	
704+99 TO 705+01	56 RT TO 104 LT	GAS	GREATER MN GAS			X	
705+28 TO 705+45	57 RT TO 130 LT	GAS	GREATER MN GAS			X	
710+62 TO 711+30	59 RT TO 237 RT	GAS	GREATER MN GAS			X	
712+20	134 RT	GAS	GREATER MN GAS			X	
712+22	141 RT	GAS	GREATER MN GAS			X	
717+03 TO 717+04	240 RT TO 67 RT	GAS	GREATER MN GAS			X	
719+64 TO 719+70	56 RT TO 127 LT	GAS	GREATER MN GAS			X	
721+84 TO 721+89	60 RT TO 105 RT	GAS	GREATER MN GAS			X	
722+52 TO 723+24	61 RT TO 106 RT	GAS	GREATER MN GAS			X	
726+47 TO 728+65	69 RT TO 26 RT	GAS	GREATER MN GAS			X	
727+59 TO 727+84	1080 LT TO 202 LT	GAS	GREATER MN GAS			X	
727+84 TO 728+72	202 LT TO 49 RT	GAS	GREATER MN GAS			X	
728+65 TO 731+22	26 RT TO 63 RT	GAS	GREATER MN GAS			X	
731+22 TO 741+61	63 RT TO 76 RT	GAS	GREATER MN GAS			X	
741+61 TO 741+60	76 RT TO 212 RT	GAS	GREATER MN GAS			X	
667+88 TO 739+95	66 RT TO 63 RT	GAS	GREATER MN GAS			X	
680+23 TO 680+39	350 RT TO 347 LT	GAS	GREATER MN GAS			X	
707+45 TO 708+09	173 LT TO 71 RT	GAS	GREATER MN GAS			X	
734+40 TO 734+95	64 RT TO 278 RT	GAS	GREATER MN GAS			X	
735+37 TO 735+52	64 RT TO 247 RT	GAS	GREATER MN GAS			X	
681+38 TO 682+66	327 LT TO 278 RT	GAS	ENTERPRISE			X	
735+33 TO 737+43	50 RT TO 197 LT	GAS	CENTERPOINT			X	
715+94 TO 717+18	246 LT TO 225 RT	GAS	NORTHERN			X	
748+36 TO 748+43	200 RT TO 286 LT	GAS	NORTHERN			X	

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 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: 4/6/2018 LIC. NO. 40646



UTILITY TABULATION

STATE PROJ. NO. 0704-110 (T.H. 22)
 Sheet No. 10 of 131 Sheets

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
69+04 TO 69+29	95 RT TO 108 RT	OVERHEAD ELEC	XCEL			X	
69+29	95 RT	P POLE	XCEL			X	
69+29 TO 70+89	76 RT TO 95 RT	OVERHEAD ELEC	XCEL			X	
69+38 TO 69+62	173 LT TO 162 LT	P-BUR	XCEL			X	
69+62	173 LT	P POLE	XCEL			X	
69+62 TO 70+13	172 LT TO 67 LT	OVERHEAD ELEC	XCEL			X	
70+13	67 LT	P POLE	XCEL			X	
70+13 TO 70+89	67 LT TO 76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
70+89	76 RT	P POLE	XCEL			X	
70+89 TO 70+97	76 RT TO 89 RT	OVERHEAD ELEC	XCEL			X	
86+24 TO 86+62	69 RT TO 102 RT	OVERHEAD ELEC	XCEL			X	
86+62	69 RT	P POLE	XCEL			X	
86+62 TO 87+77	68 RT TO 69 RT	OVERHEAD ELEC	XCEL			X	
87+17	218 LT	P POLE	XCEL			X	
87+17 TO 88+68	218 LT TO 142 LT	OVERHEAD ELEC	XCEL			X	
87+17 TO 87+44	218 LT TO 78 LT	OVERHEAD ELEC	XCEL			X	
87+44	78 LT	P POLE	XCEL			X	
87+44 TO 87+77	78 LT TO 68 RT	OVERHEAD ELEC	XCEL			X	23,000 V
87+77 TO 89+63	68 RT TO 133 RT	OVERHEAD ELEC	XCEL			X	
88+60 TO 88+65	181 LT TO 148 LT	P-BUR	XCEL			X	
88+65 TO 88+68	148 LT TO 142 LT	P-BUR	XCEL			X	
88+68	142 LT	P POLE	XCEL			X	
88+68 TO 89+14	142 LT TO 55 LT	OVERHEAD ELEC	XCEL			X	23,000 V
88+68 TO 90+43	142 LT TO 97 LT	OVERHEAD ELEC	XCEL			X	23,000 V
89+14	55 LT	P POLE	XCEL			X	
89+55 TO 89+63	133 RT TO 156 RT	OVERHEAD ELEC	XCEL			X	
89+63	133 RT	P POLE	XCEL			X	
90+43	97 LT	P POLE	XCEL			X	
90+43 TO 92+18	97 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
91+72	59 RT	P POLE	XCEL			X	
91+72 TO 91+95	59 RT TO 79 RT	P-BUR	XCEL			X	
91+72 TO 92+18	70 LT TO 58 RT	OVERHEAD ELEC	XCEL			X	
92+18	70 LT	P POLE	XCEL			X	
92+18 TO 94+01	69 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
92+18 TO 92+73	97 LT TO 70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
94+01	68 LT	P POLE	XCEL			X	
94+01 TO 96+15	70 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
96+15	70 LT	P POLE	XCEL			X	
96+15 TO 98+51	70 LT	OVERHEAD ELEC	XCEL			X	
98+51	70 LT	P POLE	XCEL			X	
98+51 TO 100+67	70 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
100+67	69 LT	P POLE	XCEL			X	
100+67 TO 102+91	69 LT	OVERHEAD ELEC	XCEL			X	
102+91	69 LT	P POLE	XCEL			X	
102+91 TO 105+22	70 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
105+22	70 LT	P POLE	XCEL			X	
105+22 TO 107+41	70 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
107+41	69 LT	P POLE	XCEL			X	
107+41 TO 107+88	124 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
107+41 TO 107+82	69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
107+77	77 RT	P POLE	XCEL			X	
107+77 TO 117+15	60 RT TO 114 RT	OVERHEAD ELEC	XCEL			X	
107+77	77 RT TO 114 RT	OVERHEAD ELEC	XCEL			X	
107+77 TO 107+82	69 LT TO 77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
107+82	69 LT	P POLE	XCEL			X	
107+82 TO 109+10	69 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
109+10	68 LT	P POLE	XCEL			X	
109+10 TO 111+43	70 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
111+43	70 LT	P POLE	XCEL			X	
111+43 TO 113+93	72 LT TO 70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
113+87	616 LT	P POLE	XCEL			X	
113+87	641 LT TO 616 LT	OVERHEAD ELEC	XCEL			X	23,000 V
113+87 TO 113+90	616 LT TO 343 LT	OVERHEAD ELEC	XCEL			X	23,000 V
113+90	343 LT	P POLE	XCEL			X	
113+90 TO 113+93	343 LT TO 72 LT	OVERHEAD ELEC	XCEL			X	
113+94	71 LT	P POLE	XCEL			X	
113+94 TO 114+89	71 LT TO 70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
114+89	70 LT	P POLE	XCEL			X	
114+89 TO 116+66	70 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
116+66 TO 116+67	120 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
116+66 TO 117+15	68 LT TO 60 RT	OVERHEAD ELEC	XCEL			X	23,000 V
116+66	69 LT	P POLE	XCEL			X	
116+66 TO 119+15	69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
117+02 TO 117+15	60 RT TO 78 RT	P-BUR	XCEL			X	
117+15	60 RT	P POLE	XCEL			X	
119+15	69 LT	P POLE	XCEL			X	
119+15 TO 121+47	69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
121+47	69 LT	P POLE	XCEL			X	
121+47 TO 123+72	70 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
123+72 TO 126+25	70 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
123+82	69 LT	P POLE	XCEL			X	
126+25	68 LT	P POLE	XCEL			X	
126+25 TO 128+65	69 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
128+65	69 LT	P POLE	XCEL			X	
128+65 TO 131+00	70 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
131+00	70 LT	P POLE	XCEL			X	
131+00 TO 133+41	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
133+41	70 LT	P POLE	XCEL			X	
133+41 TO 135+86	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
135+86	70 LT	P POLE	XCEL			X	
135+86 TO 138+26	71 LT TO 70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
138+26	71 LT	P POLE	XCEL			X	
138+26 TO 140+58	71 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
140+24	94 RT	P POLE	XCEL			X	
140+24 TO 140+58	69 LT TO 94 RT	OVERHEAD ELEC	XCEL			X	23,000 V
140+24 TO 140+29	94 RT TO 412 RT	OVERHEAD ELEC	XCEL			X	
140+29	412 RT	P POLE	XCEL			X	
140+29 TO 140+30	412 RT TO 495 RT	OVERHEAD ELEC	XCEL			X	
140+58	69 LT	P POLE	XCEL			X	
140+58 TO 143+22	71 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
143+22	71 LT	P POLE	XCEL			X	
143+22 TO 146+04	71 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
146+04	69 LT	P POLE	XCEL			X	
146+04 TO 148+25	69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
148+25	69 LT	P POLE	XCEL			X	
148+25 TO 150+97	69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
150+91 TO 150+98	102 LT TO 70 LT	OVERHEAD ELEC	XCEL			X	
150+97	69 LT	P POLE	XCEL			X	
150+97 TO 152+73	69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
150+98 TO 151+11	70 LT TO 59 RT	OVERHEAD ELEC	XCEL			X	23,000 V
151+11	59 RT	P POLE	XCEL			X	
151+13 TO 151+26	59 RT TO 66 RT	P-BUR	XCEL			X	
151+26 TO 151+28	66 RT TO 81 RT	P-BUR	XCEL			X	
152+73	69 LT	P POLE	XCEL			X	
152+73 TO 154+54	69 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
154+54	68 LT	P POLE	XCEL			X	
154+54 TO 154+57	68 LT TO 83 RT	OVERHEAD ELEC	XCEL			X	
154+54 TO 156+82	71 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
154+57	83 RT	P POLE	XCEL			X	
154+57	83 RT TO 108 RT	OVERHEAD ELEC	XCEL			X	
156+82 TO 159+08	71 LT TO 70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
156+84	70 LT	P POLE	XCEL			X	
159+08	70 LT	P POLE	XCEL			X	
159+08 TO 161+38	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
161+38	70 LT	P POLE	XCEL			X	
161+38 TO 163+68	70 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
163+68	69 LT	P POLE	XCEL			X	
163+68 TO 166+27	69 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
166+28	69 LT	P POLE	XCEL			X	
166+27 TO 168+88	69 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
168+88 TO 171+38	70 LT TO 69 LT	OVERHEAD ELEC	XCEL			X	23,000 V
168+88	69 LT	P POLE	XCEL			X	
171+38	70 LT	P POLE	XCEL			X	
171+38 TO 173+91	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
173+91	70 LT	P POLE	XCEL			X	
173+91 TO 176+52	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
176+52	70 LT	P POLE	XCEL			X	
176+52 TO 179+04	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
179+04	70 LT	P POLE	XCEL			X	
179+04 TO 181+49	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V

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SIGNATURE: _____
PRINTED NAME: CANDACE G. AMBERG
DATE: 4/6/2018 LIC. NO. 40646



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



UTILITY TABULATION

STATE PROJ. NO. 0704-110 (T.H. 22)
Sheet No. 11 of 131 Sheets

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
181+49	70 LT	P POLE	XCEL			X	
181+49 TO 183+78	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
183+78	70 LT	P POLE	XCEL			X	
183+78 TO 186+30	70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
186+26 TO 186+30	100 LT TO 70 LT	OVERHEAD ELEC	XCEL			X	23,000 V
186+30	70 LT	P POLE	XCEL			X	
186+30 TO 188+42	70 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	23,000 V
186+30 TO 186+41	85 LT TO 70 LT	P-BUR	XCEL			X	
188+42	68 LT	P POLE	XCEL			X	
188+42 TO 190+36	68 LT TO 67 LT	OVERHEAD ELEC	XCEL			X	23,000 V
190+36	67 LT	P POLE	XCEL			X	
190+36 TO 192+24	67 LT TO 66 LT	OVERHEAD ELEC	XCEL			X	23,000 V
192+24	66 LT	P POLE	XCEL			X	
192+24 TO 193+31	66 LT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
192+24 TO 194+86	76 LT TO 66 LT	OVERHEAD ELEC	XCEL			X	
193+31 TO 193+36	71 RT TO 402 RT	OVERHEAD ELEC	XCEL			X	
193+31 TO 195+67	70 RT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
193+31	71 RT	P POLE	XCEL			X	
193+36	402 RT	P POLE	XCEL			X	
193+36 TO 193+38	402 RT TO 482 RT	OVERHEAD ELEC	XCEL			X	
194+86	76 LT	P POLE	XCEL			X	
194+86 TO 196+56	81 LT TO 76 LT	OVERHEAD ELEC	XCEL			X	23,000 V
195+67	70 RT	P POLE	XCEL			X	
195+67 TO 197+99	70 RT	OVERHEAD ELEC	XCEL			X	23,000 V
196+56	81 LT	P POLE	XCEL			X	
196+58 TO 196+60	91 LT TO 82 LT	P-BUR	XCEL			X	
196+60 TO 196+62	109 LT TO 91 LT	P-BUR	XCEL			X	
197+99	70 RT	P POLE	XCEL			X	
197+99 TO 200+51	70 RT	OVERHEAD ELEC	XCEL			X	23,000 V
200+51	70 RT	P POLE	XCEL			X	
200+51 TO 203+02	70 RT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
203+02	71 RT	P POLE	XCEL			X	
203+02 TO 205+06	70 RT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
205+06	70 RT	P POLE	XCEL			X	
205+06 TO 205+08	70 RT TO 131 RT	OVERHEAD ELEC	XCEL			X	
205+06 TO 206+60	69 RT TO 70 RT	OVERHEAD ELEC	XCEL			X	23,000 V
206+60	70 RT	P POLE	XCEL			X	
206+60 TO 208+41	68 RT TO 69 RT	OVERHEAD ELEC	XCEL			X	23,000 V
206+89 TO 206+95	117 LT TO 98 LT	OVERHEAD ELEC	XCEL			X	
206+95 TO 208+41	98 LT TO 68 RT	OVERHEAD ELEC	XCEL			X	
207+02	89 LT	P POLE	XCEL			X	
208+41	68 RT	P POLE	XCEL			X	
208+41 TO 208+80	63 LT TO 68 RT	OVERHEAD ELEC	XCEL			X	
208+41 TO 210+73	68 RT	OVERHEAD ELEC	XCEL			X	
208+81	63 LT	P POLE	XCEL			X	
208+80 TO 208+90	102 LT TO 63 LT	OVERHEAD ELEC	XCEL			X	
210+73	68 RT	P POLE	XCEL			X	
210+73 TO 213+23	68 RT TO 69 RT	OVERHEAD ELEC	XCEL			X	23,000 V
213+23	69 RT	P POLE	XCEL			X	
213+23 TO 215+70	69 RT TO 70 RT	OVERHEAD ELEC	XCEL			X	23,000 V
215+70	70 RT	P POLE	XCEL			X	
215+70 TO 218+09	70 RT	OVERHEAD ELEC	XCEL			X	
218+09	70 RT	P POLE	XCEL			X	
218+09 TO 220+59	70 RT	OVERHEAD ELEC	XCEL			X	
220+22	92 RT	P POLE	XCEL			X	
220+22 TO 220+59	70 RT TO 92 RT	OVERHEAD ELEC	XCEL			X	
220+59 TO 223+03	70 RT	OVERHEAD ELEC	XCEL			X	23,000 V
220+23 TO 220+59	70 RT TO 120 RT	OVERHEAD ELEC	XCEL			X	
220+59	70 RT	P POLE	XCEL			X	
223+03	70 RT	P POLE	XCEL			X	
223+03 TO 225+51	70 RT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
225+51	71 RT	P POLE	XCEL			X	
225+51 TO 227+87	71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
227+87	71 RT	P POLE	XCEL			X	
227+87 TO 230+25	71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
230+25	71 RT	P POLE	XCEL			X	
230+25 TO 232+88	71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
232+88	71 RT	P POLE	XCEL			X	
232+88 TO 235+44	68 RT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
235+28 TO 235+44	67 RT TO 95 RT	OVERHEAD ELEC	XCEL			X	

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
235+44	68 RT	P POLE	XCEL			X	
235+44 TO 235+63	110 LT TO 68 RT	OVERHEAD ELEC	XCEL			X	
235+44 TO 237+59	68 RT TO 70 RT	OVERHEAD ELEC	XCEL			X	23,000 V
235+62 TO 235+63	147 LT TO 110 LT	OVERHEAD ELEC	XCEL			X	
235+63	110 LT	P POLE	XCEL			X	
237+59	70 RT	P POLE	XCEL			X	
237+59 TO 239+84	70 RT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
239+84	71 RT	P POLE	XCEL			X	
239+84 TO 242+35	71 RT TO 72 RT	OVERHEAD ELEC	XCEL			X	23,000 V
242+35	72 RT	P POLE	XCEL			X	
242+35 TO 244+71	72 RT	OVERHEAD ELEC	XCEL			X	23,000 V
244+71	72 RT	P POLE	XCEL			X	
244+71 TO 246+82	72 RT TO 74 RT	OVERHEAD ELEC	XCEL			X	23,000 V
245+65 TO 246+75	132 LT	OVERHEAD ELEC	XCEL			X	
246+61	492 LT TO 483 LT	OVERHEAD ELEC	XCEL			X	
246+61	483 LT	P POLE	XCEL			X	
246+61 TO 246+76	483 LT TO 132 LT	OVERHEAD ELEC	XCEL			X	
246+76	132 LT	P POLE	XCEL			X	
246+76 TO 246+82	132 LT TO 74 RT	OVERHEAD ELEC	XCEL			X	
246+82	74 RT	P POLE	XCEL			X	
246+82 TO 249+01	74 RT TO 76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
249+01	76 RT	P POLE	XCEL			X	
249+01 TO 250+93	76 RT TO 77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
250+93	77 RT	P POLE	XCEL			X	
250+93 TO 252+82	76 RT TO 77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
252+39 TO 252+40	118 LT TO 89 LT	OVERHEAD ELEC	XCEL			X	
252+40	89 LT	P POLE	XCEL			X	
252+40 TO 252+82	89 LT TO 76 RT	OVERHEAD ELEC	XCEL			X	
252+82	76 RT	P POLE	XCEL			X	
252+82 TO 255+45	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
255+45	76 RT	P POLE	XCEL			X	
255+45 TO 258+11	76 RT TO 77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
258+11	77 RT	P POLE	XCEL			X	
258+11 TO 260+74	76 RT TO 77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
260+74	76 RT	P POLE	XCEL			X	
260+74 TO 260+75	76 RT TO 235 RT	OVERHEAD ELEC	XCEL			X	
260+74 TO 262+75	76 RT TO 77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
260+75	235 RT	P POLE	XCEL			X	
262+72 TO 262+75	77 RT TO 115 RT	P-BUR	XCEL			X	
262+75	77 RT	P POLE	XCEL			X	
262+75 TO 265+10	77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
265+10	77 RT	P POLE	XCEL			X	
265+10 TO 267+42	77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
267+42	77 RT	P POLE	XCEL			X	
267+42 TO 269+95	77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
269+95	77 RT	P POLE	XCEL			X	
269+95 TO 272+33	77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
272+33	77 RT	P POLE	XCEL			X	
272+33 TO 274+66	77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
274+66	77 RT	P POLE	XCEL			X	
274+66 TO 277+09	77 RT TO 78 RT	OVERHEAD ELEC	XCEL			X	23,000 V
277+09	78 RT	P POLE	XCEL			X	
277+09 TO 279+47	76 RT TO 78 RT	OVERHEAD ELEC	XCEL			X	23,000 V
279+47	76 RT	P POLE	XCEL			X	
279+47 TO 281+75	75 RT TO 76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
281+45 TO 281+50	96 LT TO 67 LT	OVERHEAD ELEC	XCEL			X	
281+49	67 LT	P POLE	XCEL			X	
281+50 TO 281+75	67 LT TO 75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
281+75	75 RT	P POLE	XCEL			X	
281+75 TO 283+76	75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
283+76	75 RT	P POLE	XCEL			X	
283+76 TO 286+40	75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
286+40	75 RT	P POLE	XCEL			X	
286+40 TO 289+01	75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
287+55 TO 289+01	79 RT TO 75 RT	P-BUR	XCEL			X	
289+01	75 RT	P POLE	XCEL			X	
289+01 TO 291+74	75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
291+74	75 RT	P POLE	XCEL			X	
291+74 TO 294+38	75 RT TO 76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
294+38	76 RT	P POLE	XCEL			X	

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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 G. AMBERG
DATE: 4/6/2018 LIC. NO. 40646



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



UTILITY TABULATION

STATE PROJ. NO. 0704-110 (T.H. 22)
Sheet No. 12 of 131 Sheets

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
294+38 TO 297+14	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
297+14	76 RT	P POLE	XCEL			X	
297+14 TO 299+78	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
299+78	76 RT	P POLE	XCEL			X	
299+78 TO 302+13	76 RT TO 77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
302+13	77 RT	P POLE	XCEL			X	
302+13 TO 304+51	76 RT TO 77 RT	OVERHEAD ELEC	XCEL			X	23,000 V
304+51	76 RT	P POLE	XCEL			X	
304+51 TO 306+86	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
306+86	76 RT	P POLE	XCEL			X	
306+86 TO 309+14	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
309+14	76 RT	P POLE	XCEL			X	
309+14 TO 311+44	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
311+44	76 RT	P POLE	XCEL			X	
311+44 TO 313+68	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
313+68	76 RT	P POLE	XCEL			X	
313+68 TO 315+99	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
315+99	76 RT	P POLE	XCEL			X	
315+99 TO 318+27	76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
318+27	76 RT	P POLE	XCEL			X	
318+27 TO 320+64	75 RT TO 76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
320+64	75 RT	P POLE	XCEL			X	
320+64 TO 322+36	75 RT TO 80 RT	OVERHEAD ELEC	XCEL			X	23,000 V
322+36	80 RT	P POLE	XCEL			X	
322+36 TO 323+56	71 RT TO 80 RT	OVERHEAD ELEC	XCEL			X	23,000 V
323+56	71 RT	P POLE	XCEL			X	
323+56 TO 325+45	71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
325+45	71 RT	P POLE	XCEL			X	
325+45 TO 326+64	71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
326+64	71 RT	P POLE	XCEL			X	
326+64 TO 328+76	71 RT TO 72 RT	OVERHEAD ELEC	XCEL			X	23,000 V
328+76	72 RT	P POLE	XCEL			X	
328+76 TO 331+55	72 RT	OVERHEAD ELEC	XCEL			X	23,000 V
331+55	72 RT	P POLE	XCEL			X	
331+55 TO 333+78	72 RT	OVERHEAD ELEC	XCEL			X	23,000 V
333+78	72 RT	P POLE	XCEL			X	
333+78 TO 335+44	72 RT	OVERHEAD ELEC	XCEL			X	23,000 V
335+44	72 RT	P POLE	XCEL			X	
335+44 TO 335+46	72 RT TO 94 RT	P-BUR	XCEL			X	
335+44 TO 337+53	72 RT TO 74 RT	OVERHEAD ELEC	XCEL			X	23,000 V
335+45 TO 335+46	94 RT TO 132 RT	P-BUR	XCEL			X	
337+17 TO 337+53	73 RT TO 126 RT	OVERHEAD ELEC	XCEL			X	
337+53	74 RT	P POLE	XCEL			X	
337+53 TO 339+98	73 RT TO 74 RT	OVERHEAD ELEC	XCEL			X	23,000 V
339+98	73 RT	P POLE	XCEL			X	
339+98 TO 342+39	72 RT TO 73 RT	OVERHEAD ELEC	XCEL			X	23,000 V
342+39	72 RT	P POLE	XCEL			X	
342+39 TO 344+87	63 RT TO 72 RT	OVERHEAD ELEC	XCEL			X	23,000 V
344+87	63 RT	P POLE	XCEL			X	
344+87 TO 346+76	38 RT TO 63 RT	OVERHEAD ELEC	XCEL			X	23,000 V
346+36 TO 346+50	95 LT TO 68 LT	OVERHEAD ELEC	XCEL			X	
346+50	68 LT	P POLE	XCEL			X	
346+50 TO 348+08	68 LT TO 66 LT	OVERHEAD ELEC	XCEL			X	23,000 V
346+50 TO 346+75	68 LT TO 37 RT	OVERHEAD ELEC	XCEL			X	
346+76	38 RT	P POLE	XCEL			X	
346+76 TO 348+57	38 RT TO 45 RT	OVERHEAD ELEC	XCEL			X	23,000 V
346+76 TO 347+09	38 RT TO 74 RT	OVERHEAD ELEC	XCEL			X	
348+08	66 LT	P POLE	XCEL			X	
348+08 TO 348+38	85 LT TO 66 LT	OVERHEAD ELEC	XCEL			X	
348+57	45 RT	P POLE	XCEL			X	
348+56 TO 348+57	46 RT TO 90 RT	P-BUR	XCEL			X	
348+57 TO 349+79	44 RT TO 45 RT	OVERHEAD ELEC	XCEL			X	23,000 V
349+70 TO 349+79	44 RT TO 98 RT	OVERHEAD ELEC	XCEL			X	
349+79	44 RT	P POLE	XCEL			X	
349+79 TO 351+07	38 RT TO 44 RT	OVERHEAD ELEC	XCEL			X	23,000 V
349+79 TO 349+97	65 LT TO 44 RT	OVERHEAD ELEC	XCEL			X	23,000 V
349+89 TO 349+97	73 LT TO 65 LT	OVERHEAD ELEC	XCEL			X	23,000 V

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
349+97	65 LT	P POLE	XCEL			X	
350+99 TO 351+05	42 RT TO 81 RT	P-BUR	XCEL			X	
351+05 TO 351+07	38 RT TO 42 RT	P-BUR	XCEL			X	
351+07	38 RT	P POLE	XCEL			X	
351+07 TO 351+80	37 RT TO 38 RT	OVERHEAD ELEC	XCEL			X	23,000 V
351+53 TO 351+92	81 LT TO 47 LT	OVERHEAD ELEC	XCEL			X	
351+65 TO 351+91	326 RT TO 368 RT	OVERHEAD ELEC	XCEL			X	
351+80	37 RT	P POLE	XCEL			X	
351+80 TO 351+83	37 RT TO 48 RT	P-BUR	XCEL			X	
351+80 TO 353+37	37 RT	OVERHEAD ELEC	XCEL			X	23,000 V
351+80 TO 351+92	47 LT TO 37 RT	OVERHEAD ELEC	XCEL			X	23,000 V
351+80 TO 351+92	37 RT TO 175 RT	OVERHEAD ELEC	XCEL			X	
351+83 TO 351+86	48 RT	P-BUR	XCEL			X	
351+85 TO 351+86	24 RT TO 48 RT	P-BUR	XCEL			X	
351+92	175 RT	P POLE	XCEL			X	
351+91	325 RT	P POLE	XCEL			X	
351+92 TO 352+86	175 RT TO 216 RT	OVERHEAD ELEC	XCEL			X	
351+91 TO 351+92	175 RT TO 325 RT	OVERHEAD ELEC	XCEL			X	
351+91	325 RT TO 490 RT	OVERHEAD ELEC	XCEL			X	
351+92	47 LT	P POLE	XCEL			X	
353+37	37 RT	P POLE	XCEL			X	
353+37 TO 354+94	37 RT TO 38 RT	OVERHEAD ELEC	XCEL			X	23,000 V
354+80 TO 354+94	38 RT TO 86 RT	OVERHEAD ELEC	XCEL			X	23,000 V
354+94	38 RT	P POLE	XCEL			X	
354+94 TO 357+06	38 RT TO 39 RT	OVERHEAD ELEC	XCEL			X	23,000 V
354+94 TO 355+12	38 RT TO 94 RT	OVERHEAD ELEC	XCEL			X	23,000 V
357+06	39 RT	P POLE	XCEL			X	
357+06 TO 358+72	39 RT TO 40 RT	OVERHEAD ELEC	XCEL			X	
358+72	40 RT	P POLE	XCEL			X	
358+72 TO 360+06	33 RT TO 40 RT	OVERHEAD ELEC	XCEL			X	23,000 V
358+73 TO 358+95	76 LT TO 40 RT	OVERHEAD ELEC	XCEL			X	
358+95	76 LT	P POLE	XCEL			X	
358+95 TO 359+15	94 LT TO 76 LT	OVERHEAD ELEC	XCEL			X	
358+95 TO 359+02	114 LT TO 76 LT	OVERHEAD ELEC	XCEL			X	
360+02 TO 360+06	33 RT TO 34 RT	P-BUR	XCEL			X	
360+02 TO 360+03	34 RT TO 67 RT	P-BUR	XCEL			X	
360+06	33 RT	P POLE	XCEL			X	
360+06 TO 361+93	33 RT TO 35 RT	OVERHEAD ELEC	XCEL			X	23,000 V
360+06 TO 360+85	50 LT TO 33 RT	OVERHEAD ELEC	XCEL			X	
360+85	50 LT	P POLE	XCEL			X	
360+85 TO 361+10	73 LT TO 50 LT	OVERHEAD ELEC	XCEL			X	
361+93	35 RT	P POLE	XCEL			X	
361+93 TO 363+69	35 RT TO 47 RT	OVERHEAD ELEC	XCEL			X	23,000 V
363+15 TO 363+69	91 LT TO 52 LT	OVERHEAD ELEC	XCEL			X	
363+60 TO 363+66	87 LT TO 54 LT	P-BUR	XCEL			X	
363+66 TO 363+69	54 LT TO 52 LT	P-BUR	XCEL			X	
363+69	47 RT	P POLE	XCEL			X	
363+69	52 LT	P POLE	XCEL			X	
363+69 TO 365+31	47 RT TO 59 RT	OVERHEAD ELEC	XCEL			X	23,000 V
363+69	52 LT TO 47 RT	OVERHEAD ELEC	XCEL			X	
365+31	59 RT	P POLE	XCEL			X	
365+31 TO 367+35	59 RT TO 74 RT	OVERHEAD ELEC	XCEL			X	23,000 V
367+35	74 RT	P POLE	XCEL			X	
367+35 TO 369+15	74 RT TO 75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
369+15	75 RT	P POLE	XCEL			X	
369+15 TO 370+93	75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
370+93	75 RT	P POLE	XCEL			X	
370+93 TO 372+74	75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
372+74	75 RT	P POLE	XCEL			X	
372+74 TO 374+53	74 RT TO 75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
374+53	74 RT	P POLE	XCEL			X	
374+53 TO 376+32	74 RT	OVERHEAD ELEC	XCEL			X	23,000 V
376+32	74 RT	P POLE	XCEL			X	
376+32 TO 378+09	74 RT TO 75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
378+09	75 RT	P POLE	XCEL			X	
378+09 TO 379+90	75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
379+90	75 RT	P POLE	XCEL			X	
379+90 TO 381+70	75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
381+70	75 RT	P POLE	XCEL			X	
381+70 TO 383+50	73 RT TO 75 RT	OVERHEAD ELEC	XCEL			X	23,000 V

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DATE: 4/6/2018 LIC. NO. 40646



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



UTILITY TABULATION

STATE PROJ. NO. 0704-110 (T.H. 22)
Sheet No. 13 of 131 Sheets

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
383+50	73 RT	P POLE	XCEL			X	
383+50 TO 383+54	22 RT TO 73 RT	P-BUR	XCEL			X	23,000 V
383+50 TO 385+27	73 RT TO 75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
383+54 TO 383+74	37 LT TO 22 RT	P-BUR	XCEL			X	23,000 V
383+74 TO 383+87	75 LT TO 37 LT	P-BUR	XCEL			X	23,000 V
383+87 TO 383+91	98 LT TO 75 LT	P-BUR	XCEL			X	23,000 V
385+27	75 RT	P POLE	XCEL			X	
385+27 TO 387+09	75 RT TO 76 RT	OVERHEAD ELEC	XCEL			X	23,000 V
387+32	75 RT	P POLE	XCEL			X	
387+32 TO 387+53	74 RT TO 94 RT	OVERHEAD ELEC	XCEL			X	23,000 V
387+53	94 RT	P POLE	XCEL			X	
387+53 TO 389+54	94 RT TO 120 RT	OVERHEAD ELEC	XCEL			X	23,000 V
389+54	120 RT	P POLE	XCEL			X	
389+54 TO 391+53	115 RT TO 120 RT	OVERHEAD ELEC	XCEL			X	23,000 V
391+53	115 RT	P POLE	XCEL			X	
391+53 TO 395+41	90 RT TO 115 RT	OVERHEAD ELEC	XCEL			X	23,000 V
395+41	90 RT	P POLE	XCEL			X	
395+41 TO 396+14	75 RT TO 90 RT	OVERHEAD ELEC	XCEL			X	23,000 V
395+38	264 RT	P POLE	XCEL			X	
395+38 TO 396+14	75 RT TO 264 RT	OVERHEAD ELEC	XCEL			X	23,000 V
396+14	75 RT	P POLE	XCEL			X	
396+14 TO 399+53	67 RT TO 75 RT	OVERHEAD ELEC	XCEL			X	23,000 V
396+14 TO 396+41	123 LT TO 75 RT	OVERHEAD ELEC	XCEL			X	
396+41	123 LT	P POLE	XCEL			X	
399+53	67 RT	P POLE	XCEL			X	
399+53 TO 402+89	66 RT TO 67 RT	OVERHEAD ELEC	XCEL			X	23,000 V
402+89	66 RT	P POLE	XCEL			X	
402+89 TO 406+24	66 RT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
406+24	71 RT	P POLE	XCEL			X	
406+24 TO 406+33	89 LT TO 71 RT	OVERHEAD ELEC	XCEL			X	23,000 V
406+33	89 LT	P POLE	XCEL			X	
406+33 TO 406+43	387 LT TO 89 LT	OVERHEAD ELEC	XCEL			X	23,000 V
406+43	387 LT	P POLE	XCEL			X	
406+43 TO 406+47	491 LT TO 387 LT	OVERHEAD ELEC	XCEL			X	23,000 V
194+01 TO 194+29	495 LT TO 484 RT	P-BUR	BENCO			X	
418+25	130 LT TO 72 RT	P-BUR	BENCO			X	
419+50	72 RT	P PED	BENCO			X	
419+50 TO 428+00	72 RT	P-BUR	BENCO			X	
428+00	72 RT	P PED	BENCO			X	
428+00	72 RT TO 57 LT	P-BUR	BENCO			X	
428+00 TO 442+10	72 RT	P-BUR	BENCO			X	
442+10	72 RT	P PED	BENCO			X	
442+10	72 RT TO 72 LT	P-BUR	BENCO			X	
442+10 TO 451+00	72 RT	P-BUR	BENCO			X	
451+00	72 RT	P PED	BENCO			X	
451+00	72 RT TO 72 LT	P-BUR	BENCO			X	
451+00 TO 456+75	72 RT	P-BUR	BENCO			X	
456+75	72 RT	P PED	BENCO			X	
456+80	72 RT	P PED	BENCO			X	
456+75 TO 457+70	72 RT	P-BUR	BENCO			X	
456+75 TO 457+70	72 RT	P-BUR	BENCO			X	
457+70	72 RT TO 72 LT	P-BUR	BENCO			X	
457+70 TO 458+55	72 RT TO 160 RT	P-BUR	BENCO			X	
459+45 TO 460+30	72 RT TO 155 RT	P-BUR	BENCO			X	
460+30 TO 483+80	72 RT	P-BUR	BENCO			X	
483+80	72 RT	P PED	BENCO			X	
483+80 TO 487+25	72 RT	P-BUR	BENCO			X	
487+25	72 RT	P PED	BENCO			X	
487+25	72 RT TO 72 LT	P-BUR	BENCO			X	
487+25 TO 496+25	72 RT	P-BUR	BENCO			X	
496+25	72 RT	P PED	BENCO			X	
496+25	72 RT TO 72 LT	P-BUR	BENCO			X	
496+25 TO 498+55	72 RT	P-BUR	BENCO			X	
498+55	72 RT	P PED	BENCO			X	
498+55	72 RT TO 72 LT	P-BUR	BENCO			X	
498+55 TO 504+80	72 RT	P-BUR	BENCO			X	
503+11 TO 504+80	84 RT TO 193 RT	P-BUR	BENCO			X	
504+80 TO 505+07	58 RT TO 84 RT	P-BUR	BENCO			X	
504+80 TO 562+91	77 RT TO 84 RT	P-BUR	BENCO			X	
504+80	84 RT	P PED	BENCO			X	

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
504+80 TO 512+00	72 RT TO 77 RT	P-BUR	BENCO			X	
512+00	77 RT	P PED	BENCO			X	
512+00 TO 562+91	77 RT	P-BUR	BENCO			X	
562+91 TO 563+31	77 RT TO 86 RT	P-BUR	BENCO			X	
563+31 TO 563+56	86 RT TO 99 RT	P-BUR	BENCO			X	
563+56 TO 563+83	99 RT TO 122 RT	P-BUR	BENCO			X	
563+83 TO 564+02	122 RT TO 158 RT	P-BUR	BENCO			X	
563+89 TO 564+06	259 RT TO 483 RT	OVERHEAD ELEC	BENCO			X	
564+02 TO 564+10	158 RT TO 177 RT	P-BUR	BENCO			X	
564+04 TO 564+10	177 RT TO 245 RT	P-BUR	BENCO			X	
564+04 TO 564+06	245 RT TO 259 RT	P-BUR	BENCO			X	
564+06	259 RT	P POLE	BENCO			X	
564+06 TO 564+08	73 LT TO 35 LT	P-BUR	BENCO			X	
564+06 TO 564+19	102 RT TO 259 RT	OVERHEAD ELEC	BENCO			X	
564+08 TO 564+43	41 LT TO 39 LT	P-BUR	BENCO			X	
564+08 TO 564+20	123 LT TO 73 LT	P-BUR	BENCO			X	
564+19	101 RT	P POLE	BENCO			X	
564+19 TO 571+90	81 RT TO 101 RT	P-BUR	BENCO			X	
564+19 TO 564+25	132 LT TO 102 RT	OVERHEAD ELEC	BENCO			X	
564+20 TO 564+25	132 LT TO 123 LT	P-BUR	BENCO			X	
564+20	123 LT	P METER	BENCO			X	
564+25	132 LT	P POLE	BENCO			X	
564+25 TO 564+41	414 LT TO 132 LT	OVERHEAD ELEC	BENCO			X	
564+41	414 LT	P POLE	BENCO			X	
564+41 TO 564+46	508 LT TO 414 LT	OVERHEAD ELEC	BENCO			X	
571+89 TO 571+90	81 RT TO 117 RT	P-BUR	BENCO			X	
571+89 TO 571+90	117 RT TO 172 RT	P-BUR	BENCO			X	
571+90 TO 575+20	68 RT TO 81 RT	P-BUR	BENCO			X	
571+90	81 RT	P PED	BENCO			X	
575+20	72 RT	P POLE	BENCO			X	
575+20 TO 579+20	72 RT	P-BUR	BENCO			X	
579+20	72 RT TO 57 LT	P-BUR	BENCO			X	
579+20	57 LT	P PED	BENCO			X	
575+20 TO 577+86	81 LT TO 68 RT	OVERHEAD ELEC	BENCO			X	
577+86	81 LT	P POLE	BENCO			X	
577+86 TO 579+41	129 LT TO 81 LT	OVERHEAD ELEC	BENCO			X	
579+16 TO 579+19	187 LT TO 154 LT	P-BUR	BENCO			X	
579+19 TO 579+41	154 LT TO 133 LT	P-BUR	BENCO			X	
579+41	129 LT	P POLE	BENCO			X	
579+41	133 LT TO 129 LT	P-BUR	BENCO			X	
579+41 TO 579+67	136 LT TO 129 LT	OVERHEAD ELEC	BENCO			X	
618+07 TO 618+34	501 LT TO 428 LT	OVERHEAD ELEC	BENCO			X	
618+34	428 LT	P POLE	BENCO			X	
618+34 TO 619+37	428 LT TO 159 LT	OVERHEAD ELEC	BENCO			X	
619+37	159 LT	P POLE	BENCO			X	
619+37 TO 620+46	159 LT TO 127 RT	OVERHEAD ELEC	BENCO			X	
619+38 TO 621+46	158 LT TO 87 LT	OVERHEAD ELEC	BENCO			X	
620+30 TO 620+93	91 LT TO 86 LT	P-BUR	BENCO			X	
620+46	127 RT	P POLE	BENCO			X	
620+46 TO 621+29	127 RT TO 361 RT	OVERHEAD ELEC	BENCO			X	
620+93 TO 621+46	87 LT TO 86 LT	P-BUR	BENCO			X	
621+29	361 RT	P POLE	BENCO			X	
621+29 TO 621+71	361 RT TO 481 RT	OVERHEAD ELEC	BENCO			X	
621+46	87 LT	P POLE	BENCO			X	
621+46 TO 623+97	87 LT TO 79 LT	OVERHEAD ELEC	BENCO			X	
621+65 TO 621+73	458 RT TO 481 RT	P-BUR	BENCO			X	
621+65 TO 621+71	447 RT TO 458 RT	P-BUR	BENCO			X	
621+71 TO 621+83	441 RT TO 447 RT	P-BUR	BENCO			X	
621+83 TO 622+54	420 RT TO 441 RT	P-BUR	BENCO			X	
622+54 TO 623+16	400 RT TO 420 RT	P-BUR	BENCO			X	
623+97	79 LT	P POLE	BENCO			X	
623+97 TO 626+27	81 LT TO 79 LT	OVERHEAD ELEC	BENCO			X	
626+27	81 LT	P POLE	BENCO			X	
626+27 TO 629+05	91 LT TO 95 LT	OVERHEAD ELEC	BENCO			X	
629+05 TO 629+26	95 LT TO 78 LT	OVERHEAD ELEC	BENCO			X	
629+26 TO 631+69	78 LT TO 102 LT	OVERHEAD ELEC	BENCO			X	
629+10	66 LT	P POLE	BENCO			X	
635+09	109 LT	P POLE	BENCO			X	
638+17	108 LT	P POLE	BENCO			X	
668+56 TO 668+72	192 LT TO 231 RT	P-BUR	BENCO			X	
668+77 TO 668+80	224 LT TO 254 LT	P-BUR	BENCO			X	

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UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
671+96 TO 672+75	243 RT TO 203 LT	P-BUR	BENCO			X	
686+12 TO 693+51	155 LT TO 116 LT	P-BUR	BENCO			X	
688+56 TO 708+95	182 RT TO 175 RT	P-BUR	BENCO			X	
690+42 TO 690+56	136 RT TO 74 RT	P-BUR	BENCO			X	
690+51 TO 690+56	77 LT TO 73 RT	P-BUR	BENCO			X	
690+51	77 LT	P PED	BENCO			X	
690+56	74 RT	P PED	BENCO			X	
692+44 TO 692+70	163 RT TO 66 RT	P-BUR	BENCO			X	
692+70	66 RT	TRANSFORMER	BENCO			X	
697+31 TO 726+15	132 LT TO 88 LT	P-BUR	BENCO			X	
701+42	94 LT	P PED	BENCO			X	
703+88	77 LT	P PED	BENCO			X	
703+88 TO 704+03	77 LT TO 140 LT	P-BUR	BENCO			X	
705+11 TO 705+41	74 RT TO 130 LT	P-BUR	BENCO			X	
705+13	75 RT	P PED	BENCO			X	
705+23	75 RT	TRANSFORMER	BENCO			X	
705+26 TO 705+30	76 LT TO 132 LT	P-BUR	BENCO			X	
705+26	76 LT	TRANSFORMER	BENCO			X	
705+40 TO 705+81	228 RT TO 88 RT	P-BUR	BENCO			X	
709+58 TO 709+62	81 LT TO 128 LT	P-BUR	BENCO			X	
709+58	81 LT	TRANSFORMER	BENCO			X	
709+62	128 LT	TRANSFORMER	BENCO			X	
709+62	126 LT	P PED	BENCO			X	
709+62	132 LT	P METER	BENCO			X	
712+23 TO 716+39	123 RT TO 241 RT	P-BUR	BENCO			X	
714+38 TO 714+76	70 RT TO 76 LT	P-BUR	BENCO			X	
714+38	70 RT	P PED	BENCO			X	
714+50 TO 714+55	156 RT TO 72 RT	P-BUR	BENCO			X	
714+55 TO 720+35	72 RT TO 66 RT	OVERHEAD ELEC	BENCO			X	
714+55	72 RT	P POLE	BENCO			X	
714+76	76 LT	TRANSFORMER	BENCO			X	
717+42	76 RT	P POLE	BENCO			X	
718+63	70 RT	P POLE	BENCO			X	
720+03 TO 720+35	165 RT TO 66 RT	P-BUR	BENCO			X	
720+35	66 RT	P POLE	BENCO			X	
720+78 TO 722+67	150 LT TO 83 LT	P-BUR	BENCO			X	
722+67 TO 727+59	83 LT TO 140 LT	P-BUR	BENCO			X	
722+67	83 LT	P PED	BENCO			X	
726+15 TO 728+73	88 LT TO 178 RT	P-BUR	BENCO			X	
727+82 TO 730+32	89 LT TO 108 LT	P-BUR	BENCO			X	
727+82	89 LT	P PED	BENCO			X	
727+89	91 LT	TRANSFORMER	BENCO			X	
728+73 TO 728+83	178 RT TO 397 RT	P-BUR	BENCO			X	
728+83 TO 728+90	397 RT TO 1002 RT	P-BUR	BENCO			X	
730+32 TO 736+35	108 LT TO 91 LT	P-BUR	BENCO			X	
736+35 TO 751+94	91 LT TO 88 LT	P-BUR	BENCO			X	
742+38 TO 742+39	85 RT TO 87 LT	P-BUR	BENCO			X	
742+38 TO 742+39	85 RT TO 220 RT	OVERHEAD ELEC	BENCO			X	
742+38 TO 751+49	85 RT TO 76 RT	OVERHEAD ELEC	BENCO			X	
744+45	77 RT	P POLE	BENCO			X	
747+98	76 RT	P POLE	BENCO			X	
751+49	76 RT	P POLE	BENCO			X	
751+49 TO 754+45	76 RT TO 77 RT	OVERHEAD ELEC	BENCO			X	
751+94 TO 761+72	88 LT TO 66 LT	P-BUR	BENCO			X	
754+45	77 RT	P POLE	BENCO			X	
754+45 TO 757+45	77 RT TO 77 RT	OVERHEAD ELEC	BENCO			X	
757+45	77 RT	P POLE	BENCO			X	
757+45 TO 760+47	77 RT TO 77 RT	OVERHEAD ELEC	BENCO			X	
760+47	77 RT	P POLE	BENCO			X	
760+47 TO 675+62	77 RT TO 207 RT	OVERHEAD ELEC	BENCO			X	
760+47 TO 734+26	77 RT TO 225 LT	P-BUR	BENCO			X	
706+92 TO 711+31	349 LT TO 312 RT	P-BUR	BENCO			X	
688+09 TO 688+38	94 LT TO 180 RT	P-BUR	BENCO			X	
663+24	77 RT	P POLE	BENCO			X	
666+10	77 RT	P POLE	BENCO			X	
667+69	77 RT	P POLE	BENCO			X	
670+13	77 RT	P POLE	BENCO			X	
672+42	77 RT	P POLE	BENCO			X	
675+21	77 RT	P POLE	BENCO			X	
670+76 TO 670+78	76 LT TO 273 LT	P-BUR	BENCO			X	

UTILITIES TABULATION (POWER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
618+34	427 LT	P POLE	GREAT RIVER ENERGY			X	
618+34 TO 619+37	427 LT TO 160 LT	OVERHEAD ELEC	GREAT RIVER ENERGY			X	
619+37	160 LT	P POLE	GREAT RIVER ENERGY			X	
619+37 TO 620+46	160 LT TO 127 RT	OVERHEAD ELEC	GREAT RIVER ENERGY			X	
620+46	127 RT	P POLE	GREAT RIVER ENERGY			X	
620+46 TO 621+29	127 RT TO 361 RT	OVERHEAD ELEC	GREAT RIVER ENERGY			X	
621+29	361 RT	P POLE	GREAT RIVER ENERGY			X	
351+70 TO 351+73	38 LT TO 37 LT	P-BUR	BLUE EARTH COUNTY			X	
351+70	38 LT	L POLE	BLUE EARTH COUNTY			X	
351+73 TO 351+77	37 LT TO 32 LT	P-BUR	BLUE EARTH COUNTY			X	
351+77 TO 351+85	32 LT TO 24 RT	P-BUR	BLUE EARTH COUNTY			X	
351+83	48 RT	P METER	BLUE EARTH COUNTY			X	
351+83 TO 351+91	49 RT TO 53 RT	P-BUR	BLUE EARTH COUNTY			X	
351+91 TO 352+54	53 RT TO 57 RT	P-BUR	BLUE EARTH COUNTY			X	
352+54	57 RT	L POLE	BLUE EARTH COUNTY			X	
458+45 TO 458+47	38 LT TO 34 LT	P-BUR	BLUE EARTH COUNTY			X	
458+45	34 LT	L POLE	BLUE EARTH COUNTY			X	
458+47 TO 459+36	43 LT TO 38 LT	P-BUR	BLUE EARTH COUNTY			X	
459+36 TO 459+56	43 LT TO 37 LT	P-BUR	BLUE EARTH COUNTY			X	
459+56 TO 459+62	37 LT TO 34 RT	P-BUR	BLUE EARTH COUNTY			X	
459+62 TO 459+64	34 RT TO 35 RT	P-BUR	BLUE EARTH COUNTY			X	
459+64	35 RT	L POLE	BLUE EARTH COUNTY			X	
564+06	35 LT	L POLE	BLUE EARTH COUNTY			X	
564+43 TO 565+19	40 LT TO 39 LT	P-BUR	BLUE EARTH COUNTY			X	
565+16 TO 565+18	30 RT TO 38 RT	P-BUR	BLUE EARTH COUNTY			X	
458+45	34 LT	L POLE	MNDOT			X	
459+64	35 RT	L POLE	MNDOT			X	
459+49	65 RT	P METER	MNDOT			X	
458+45 TO 459+64	34 LT TO 35 RT	P-BUR	MNDOT			X	
459+49 TO 459+64	65 RT TO 35 RT	P-BUR	MNDOT			X	
564+05	36 LT	L POLE	MNDOT			X	
565+18	38 RT	L POLE	MNDOT			X	
564+05 TO 564+25	36 LT TO 132 LT	P-BUR	MNDOT			X	
564+05 TO 565+18	36 LT TO 38 RT	P-BUR	MNDOT			X	
727+89 TO 727+91	91 LT TO 89 LT	P-BUR	MNDOT			X	
727+91	89 LT	P METER	MNDOT			X	
727+91 TO 727+92	89 LT TO 44 LT	P-BUR	MNDOT			X	
727+91 TO 728+09	89 LT TO 81 LT	P-BUR	MNDOT			X	
727+92	44 LT	L POLE	MNDOT			X	
727+92 TO 728+09	44 LT TO 81 LT	P-BUR	MNDOT			X	
727+92 TO 728+29	44 LT TO 22 RT	P-BUR	MNDOT			X	
728+09	81 LT	P POLE	MNDOT			X	
728+29 TO 728+82	22 RT TO 48 RT	P-BUR	MNDOT			X	
728+82 TO 729+22	48 RT TO 57 RT	P-BUR	MNDOT			X	
729+22 TO 729+39	57 RT TO 25 RT	P-BUR	MNDOT			X	
729+39	25 RT	P POLE	MNDOT			X	
729+39 TO 729+75	25 RT TO 13 RT	P-BUR	MNDOT			X	
729+75	13 RT	L POLE	MNDOT			X	
733+98 TO 735+32	79 LT TO 139 LT	P-BUR	MNDOT			X	
734+08	52 LT	L POLE	MNDOT			X	
735+15	137 LT	L POLE	MNDOT			X	
735+32 TO 735+81	139 LT TO 38 RT	P-BUR	MNDOT			X	
735+32	139 RT	P METER	MNDOT			X	
735+58	35 RT	L POLE	MNDOT			X	

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UTILITIES TABULATION (COMMUNICATION)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
87+28 to 88+65	225 LT TO 144 LT	T-BUR	CONSOLIDATED			X	
88+65	144 LT	TEL PED	CONSOLIDATED			X	
88+64 TO 89+88	144 LT TO 112 LT	T-BUR	CONSOLIDATED			X	
89+81 TO 89+85	33 LT TO 56 RT	T-BUR	CONSOLIDATED			X	
89+81 TO 89+85	56 RT TO 58 RT	T-BUR	CONSOLIDATED			X	
89+85	58 RT	TEL PED	CONSOLIDATED			X	
89+85 TO 89+88	112 LT TO 33 LT	T-BUR	CONSOLIDATED			X	
89+85 TO 89+87	52 RT TO 57 RT	T-BUR	CONSOLIDATED			X	
89+87 TO 90+76	39 RT TO 52 RT	T-BUR	CONSOLIDATED			X	
89+88	112 LT	TEL PED	CONSOLIDATED			X	
90+76 TO 92+02	39 RT TO 44 RT	T-BUR	CONSOLIDATED			X	
91+72 TO 91+94	59 RT TO 79 RT	T-BUR	CONSOLIDATED			X	
92+02 TO 102+28	44 RT TO 58 RT	T-BUR	CONSOLIDATED			X	
102+28 TO 109+56	25 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
106+51 TO 106+76	89 RT TO 50 RT	T-BUR	CONSOLIDATED			X	
106+76 TO 109+56	50 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
109+56	70 RT TO 76 RT	T-BUR	CONSOLIDATED			X	
109+56	75 RT	TEL PED	CONSOLIDATED			X	
109+57 TO 114+99	53 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
110+10 TO 110+41	74 LT TO 62 LT	T-BUR	CONSOLIDATED			X	
110+41	62 LT	TEL PED	CONSOLIDATED			X	
110+41 TO 113+98	62 LT TO 72 LT	T-BUR	CONSOLIDATED			X	
110+41 TO 110+42	62 LT TO 49 RT	T-BUR	CONSOLIDATED			X	
111+93 TO 113+74	60 LT	T-BUR	CONSOLIDATED			X	
113+97 TO 114+55	278 LT TO 277 LT	T-BUR	CONSOLIDATED			X	
113+97 TO 113+98	277 LT TO 72 LT	T-BUR	CONSOLIDATED			X	
114+36 TO 114+55	281 LT TO 278 LT	T-BUR	CONSOLIDATED			X	
114+43 TO 114+47	633 LT TO 431 LT	T-BUR	CONSOLIDATED			X	
114+47 TO 114+49	431 LT TO 282 LT	T-BUR	CONSOLIDATED			X	
114+49 TO 114+55	282 LT TO 281 LT	T-BUR	CONSOLIDATED			X	
114+52 TO 114+56	419 LT TO 282 LT	T-BUR	CONSOLIDATED			X	
114+52 TO 114+55	282 LT TO 281 LT	T-BUR	CONSOLIDATED			X	
114+55	281 LT	TEL PED	CONSOLIDATED			X	
114+56 TO 114+66	433 LT TO 419 LT	T-BUR	CONSOLIDATED			X	
114+66 TO 114+84	442 LT TO 433 LT	T-BUR	CONSOLIDATED			X	
114+70 TO 114+99	62 RT	T-BUR	CONSOLIDATED			X	
114+99	70 RT	TEL PED	CONSOLIDATED			X	
114+99 TO 119+01	38 RT TO 70 RT	T-BUR	CONSOLIDATED			X	
119+01	70 RT	TEL PED	CONSOLIDATED			X	
119+01 TO 128+53	65 RT TO 72 RT	T-BUR	CONSOLIDATED			X	
128+53	69 RT	TEL PED	CONSOLIDATED			X	
111	43 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
140+94	72 RT	TEL PED	CONSOLIDATED			X	
140+94 TO 147+92	65 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
147+92	71 RT	TEL PED	CONSOLIDATED			X	
147+92 TO 153+05	37 RT TO 71 RT	T-BUR	CONSOLIDATED			X	
150+97 TO 151+01	102 LT TO 72 LT	T-BUR	CONSOLIDATED			X	
151+01 TO 151+05	72 LT TO 68 LT	T-BUR	CONSOLIDATED			X	
151+05	68 LT	TEL PED	CONSOLIDATED			X	
151+05 TO 153+04	68 LT TO 60 LT	T-BUR	CONSOLIDATED			X	
151+46 TO 151+49	73 RT TO 84 RT	T-BUR	CONSOLIDATED			X	
151+46 TO 151+47	84 RT TO 108 RT	T-BUR	CONSOLIDATED			X	
151+49 TO 152+79	67 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
152+79 TO 153+05	57 RT TO 67 RT	T-BUR	CONSOLIDATED			X	
153+02 TO 153+05	38 RT TO 57 RT	T-BUR	CONSOLIDATED			X	
153+04 TO 153+05	60 LT TO 57 RT	T-BUR	CONSOLIDATED			X	
153+05 TO 153+07	37 RT TO 57 RT	T-BUR	CONSOLIDATED			X	
153+05	57 RT	TEL PED	CONSOLIDATED			X	
153+05 TO 162+52	37 RT TO 70 RT	T-BUR	CONSOLIDATED			X	
153+07 TO 154+30	28 RT TO 37 RT	T-BUR	CONSOLIDATED			X	
153+09 TO 153+42	50 RT TO 52 RT	T-BUR	CONSOLIDATED			X	
153+42 TO 153+56	50 RT TO 53 RT	T-BUR	CONSOLIDATED			X	
153+56 TO 153+69	53 RT TO 67 RT	T-BUR	CONSOLIDATED			X	
153+69 TO 153+83	67 RT TO 97 RT	T-BUR	CONSOLIDATED			X	
162+52	69 RT	TEL PED	CONSOLIDATED			X	
162+52 TO 172+48	64 RT TO 72 RT	T-BUR	CONSOLIDATED			X	
172+48	70 RT	TEL PED	CONSOLIDATED			X	
172+48 TO 186+42	64 RT TO 72 RT	T-BUR	CONSOLIDATED			X	
186+42	69 RT	TEL PED	CONSOLIDATED			X	
186+42 TO 192+00	48 RT TO 75 RT	T-BUR	CONSOLIDATED			X	

UTILITIES TABULATION (COMMUNICATION)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
186+42 TO 186+74	69 RT TO 34 LT	T-BUR	CONSOLIDATED			X	
186+74 TO 186+35	34 LT TO 89 LT	T-BUR	CONSOLIDATED			X	
192+00	75 RT	TEL PED	CONSOLIDATED			X	
192+00 TO 193+15	70 RT TO 77 RT	T-BUR	CONSOLIDATED			X	
193+15	85 LT	TEL PED	CONSOLIDATED			X	
193+15 TO 193+33	85 LT TO 77 RT	T-BUR	CONSOLIDATED			X	
193+15 TO 196+60	85 LT TO 105 LT	T-BUR	CONSOLIDATED			X	
193+20 TO 193+33	76 RT	T-BUR	CONSOLIDATED			X	
193+33	77 RT	TEL PED	CONSOLIDATED			X	
193+33 TO 204+98	78 RT TO 37 RT	2, T-BUR	CONSOLIDATED			X	
204+50 TO 204+98	37 RT TO 37 RT	2, T-BUR	CONSOLIDATED			X	
193+40 TO 193+42	497 LT TO 425 LT	T-BUR	CONSOLIDATED			X	
193+43 TO 193+47	126 LT TO 117 LT	T-BUR	CONSOLIDATED			X	
193+42 TO 193+47	425 LT TO 126 LT	T-BUR	CONSOLIDATED			X	
204+98	71 RT	TEL PED	CONSOLIDATED			X	
204+98 TO 220+64	59 RT TO 73 RT	2, T-BUR	CONSOLIDATED			X	
204+98 TO 206+02	70 RT TO 60 LT	T-BUR	CONSOLIDATED			X	
206+02 TO 207+01	60LT TO 89 LT	T-BUR	CONSOLIDATED			X	
207+01	89 LT	TEL PED	CONSOLIDATED			X	
220+64	69 RT	TEL PED	CONSOLIDATED			X	
220+64 TO 223+51	65 RT TO 72 RT	2, T-BUR	CONSOLIDATED			X	
223+51	72 RT	TEL PED	CONSOLIDATED			X	
223+51 TO 233+00	52 RT TO 62 RT	T-BUR	CONSOLIDATED			X	
233+00 TO 235+48	52 RT TO 72 RT	T-BUR	CONSOLIDATED			X	
235+48	67 RT	TEL PED	CONSOLIDATED			X	
235+48 TO 235+54	67 RT TO 91 RT	T-BUR	CONSOLIDATED			X	
235+48 TO 248+97	57 RT TO 75 RT	2, T-BUR	CONSOLIDATED			X	
235+58 TO 235+91	43 RT TO 103 LT	T-BUR	CONSOLIDATED			X	
245+60 TO 245+64	105 LT TO 90 LT	T-BUR	CONSOLIDATED			X	
245+64 TO 245+71	90 LT TO 78 LT	T-BUR	CONSOLIDATED			X	
245+68	26 LT TO 20 RT	T-BUR	CONSOLIDATED			X	
245+68 TO 245+71	78 LT TO 26 LT	T-BUR	CONSOLIDATED			X	
245+69 TO 245+71	40 RT TO 45 RT	T-BUR	CONSOLIDATED			X	
245+68 TO 245+69	20 RT TO 40 RT	T-BUR	CONSOLIDATED			X	
245+71	78 LT	TEL PED	CONSOLIDATED			X	
245+71 TO 245+77	45 RT TO 47 RT	T-BUR	CONSOLIDATED			X	
245+77 TO 247+01	47 RT TO 49 RT	T-BUR	CONSOLIDATED			X	
246+57 TO 246+71	483 LT TO 142 LT	T-BUR	CONSOLIDATED			X	
246+57	492 LT TO 483 LT	T-BUR	CONSOLIDATED			X	
246+59 TO 246+72	483 LT TO 142 LT	T-BUR	CONSOLIDATED			X	
246+58 TO 246+59	492 LT TO 483 LT	T-BUR	CONSOLIDATED			X	
248+97 TO 248+95	75 RT TO 47 LT	2, T-BUR	CONSOLIDATED			X	
248+95 TO 246+60	47 LT TO 490 LT	T-BUR	CONSOLIDATED			X	
247+01 TO 248+97	48 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
248+92 TO 248+97	73 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
248+95 TO 248+97	72 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
248+97	75 RT	TEL PED	CONSOLIDATED			X	
248+97 TO 249+33	75 RT TO 60 LT	T-BUR	CONSOLIDATED			X	
249+33 TO 249+81	60 LT TO 93 LT	T-BUR	CONSOLIDATED			X	
248+97 TO 262+50	75 RT TO 73 RT	2, T-BUR	CONSOLIDATED			X	
262+50	73 RT	TEL PED	CONSOLIDATED			X	
262+50 TO 281+71	40 RT TO 73 RT	2, T-BUR	CONSOLIDATED			X	
281+71 TO 281+54	75 RT TO 58 LT	T-BUR	CONSOLIDATED			X	
281+54 TO 280+56	58 LT TO 53 RT	T-BUR	CONSOLIDATED			X	
281+71	75 RT	TEL PED	CONSOLIDATED			X	
281+71 TO 290+62	67 RT TO 77 RT	2, T-BUR	CONSOLIDATED			X	
290+62	77 RT	TEL PED	CONSOLIDATED			X	
290+62 TO 293+20	75 RT TO 77 RT	2, T-BUR	CONSOLIDATED			X	
293+20	75 RT	TEL PED	CONSOLIDATED			X	
298+75 TO 298+91	75 RT TO 500 LT	T-BUR	CONSOLIDATED			X	
298+91	76 RT	TEL PED	CONSOLIDATED			X	
298+91 TO 318+23	43 RT TO 76 RT	2, T-BUR	CONSOLIDATED			X	
318+24	76 RT	TEL PED	CONSOLIDATED			X	
318+24 TO 318+27	73 RT TO 76 RT	T-BUR	CONSOLIDATED			X	
318+27 TO 319+04	71 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
318+84 TO 318+88	95 RT TO 110 RT	T-BUR	CONSOLIDATED			X	
318+88 TO 318+95	88 RT TO 95 RT	T-BUR	CONSOLIDATED			X	
318+95 TO 319+05	85 RT TO 88 RT	T-BUR	CONSOLIDATED			X	
319+04 TO 320+65	71 RT	T-BUR	CONSOLIDATED			X	
319+05 TO 320+65	73 RT TO 85 RT	T-BUR	CONSOLIDATED			X	

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 G. AMBERG
 DATE: 4/6/2018 LIC. NO. 40646

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




UTILITY TABULATION

STATE PROJ. NO. 0704-110 (T.H. 22)
 Sheet No. 16 of 131 Sheets

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UTILITIES TABULATION (COMMUNICATION)							
STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
320+65 TO 321+01	71 RT	T-BUR	CONSOLIDATED			X	
320+65 TO 321+00	72 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
321+00 TO 321+02	72 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
321+02	75 RT	TEL PED	CONSOLIDATED			X	
321+01 TO 323+53	66 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
323+54	71 RT	TEL PED	CONSOLIDATED			X	
323+57 TO 325+55	50 RT TO 73 RT	2, T-BUR	CONSOLIDATED			X	
325+55	73 RT	TEL PED	CONSOLIDATED			X	
325+55 TO 325+70	73 RT	T-BUR	CONSOLIDATED			X	
325+70 TO 326+00	33 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
326+00 TO 326+03	17 RT TO 33 RT	T-BUR	CONSOLIDATED			X	
326+03 TO 327+34	17 RT	T-BUR	CONSOLIDATED			X	
327+34 TO 328+22	17 RT	T-BUR	CONSOLIDATED			X	
328+22 TO 328+23	17 RT TO 30 RT	T-BUR	CONSOLIDATED			X	
328+23 TO 328+31	30 RT TO 34 RT	T-BUR	CONSOLIDATED			X	
328+31 TO 329+04	32 RT TO 34 RT	T-BUR	CONSOLIDATED			X	
329+04 TO 332+31	32 RT TO 38 RT	T-BUR	CONSOLIDATED			X	
332+31 TO 332+83	38 RT TO 68 RT	T-BUR	CONSOLIDATED			X	
332+83 TO 333+75	66 RT TO 68 RT	T-BUR	CONSOLIDATED			X	
333+75 TO 335+36	64 RT TO 66 RT	T-BUR	CONSOLIDATED			X	
335+36 TO 335+39	64 RT TO 67 RT	T-BUR	CONSOLIDATED			X	
335+38 TO 335+41	35 RT TO 71 RT	T-BUR	CONSOLIDATED			X	
335+38 TO 335+43	30 RT TO 35 RT	T-BUR	CONSOLIDATED			X	
335+39 TO 335+41	67 RT TO 71 RT	T-BUR	CONSOLIDATED			X	
335+41	71 RT	TEL PED	CONSOLIDATED			X	
335+41 TO 335+49	70 RT TO 71 RT	T-BUR	CONSOLIDATED			X	
335+41 TO 335+44	71 RT TO 94 RT	T-BUR	CONSOLIDATED			X	
335+43 TO 335+44	94 RT TO 131 RT	T-BUR	CONSOLIDATED			X	
335+43 TO 348+54	32 RT TO 24 RT	T-BUR	CONSOLIDATED			X	
335+49 TO 337+51	70 RT	T-BUR	CONSOLIDATED			X	
337+51 TO 339+95	69 RT TO 70 RT	T-BUR	CONSOLIDATED			X	
339+95 TO 340+67	66 RT TO 69 RT	T-BUR	CONSOLIDATED			X	
340+67 TO 341+11	50 RT TO 66 RT	T-BUR	CONSOLIDATED			X	
341+11 TO 346+79	48 RT TO 54 RT	T-BUR	CONSOLIDATED			X	
346+26 TO 346+29	70 LT TO 54 LT	T-BUR	CONSOLIDATED			X	
346+25 TO 346+26	90 LT TO 70 LT	T-BUR	CONSOLIDATED			X	
346+29 TO 346+37	54 LT TO 43 LT	T-BUR	CONSOLIDATED			X	
346+37 TO 346+53	43 LT TO 32 LT	T-BUR	CONSOLIDATED			X	
346+79 TO 348+56	33 RT TO 39 RT	T-BUR	CONSOLIDATED			X	
346+83 TO 347+66	26 LT TO 24 LT	T-BUR	CONSOLIDATED			X	
346+99 TO 347+11	46 RT TO 52 RT	T-BUR	CONSOLIDATED			X	
347+11 TO 348+56	46 RT TO 53 RT	T-BUR	CONSOLIDATED			X	
347+66 TO 348+02	30 LT TO 26 LT	T-BUR	CONSOLIDATED			X	
347+66 TO 347+76	39 RT TO 48 RT	T-BUR	CONSOLIDATED			X	
347+76 TO 348+21	39 RT	T-BUR	CONSOLIDATED			X	
348+02 TO 348+20	30 LT TO 25 LT	T-BUR	CONSOLIDATED			X	
348+20 TO 348+95	25 LT TO 22 LT	T-BUR	CONSOLIDATED			X	
348+21 TO 348+26	39 RT TO 44 RT	T-BUR	CONSOLIDATED			X	
348+26 TO 348+57	42 RT TO 44 RT	T-BUR	CONSOLIDATED			X	
348+32 TO 348+59	49 RT TO 96 RT	T-BUR	CONSOLIDATED			X	
348+55 TO 348+62	74 LT TO 61 LT	T-BUR	CONSOLIDATED			X	
348+56 TO 348+59	49 RT TO 53 RT	T-BUR	CONSOLIDATED			X	
348+57 TO 348+59	42 RT TO 49 RT	T-BUR	CONSOLIDATED			X	
348+56 TO 349+85	39 RT TO 40 RT	T-BUR	CONSOLIDATED			X	
348+59	49 RT	TEL PED	CONSOLIDATED			X	
348+59 TO 349+43	49 RT TO 50 RT	T-BUR	CONSOLIDATED			X	
348+62 TO 348+77	61 LT TO 44 LT	T-BUR	CONSOLIDATED			X	
348+77 TO 348+96	44 LT TO 34 LT	T-BUR	CONSOLIDATED			X	
348+95 TO 350+04	23 LT TO 22 LT	T-BUR	CONSOLIDATED			X	
348+96 TO 350+05	34 LT TO 32 LT	T-BUR	CONSOLIDATED			X	
349+43	50 RT	TEL PED	CONSOLIDATED			X	
349+43	23 RT TO 50 RT	T-BUR	CONSOLIDATED			X	
349+43 TO 349+82	23 RT	T-BUR	CONSOLIDATED			X	
349+79 TO 349+91	65 LT TO 43 LT	T-BUR	CONSOLIDATED			X	
349+82 TO 350+58	23 RT TO 24 RT	T-BUR	CONSOLIDATED			X	
349+85 TO 350+78	40 RT	T-BUR	CONSOLIDATED			X	
349+91 TO 350+04	43 LT TO 34 LT	T-BUR	CONSOLIDATED			X	
350+04 TO 350+65	23 LT TO 22 LT	T-BUR	CONSOLIDATED			X	
350+04 TO 350+70	34 LT TO 31 LT	T-BUR	CONSOLIDATED			X	
350+05 TO 350+69	32 LT TO 30 LT	T-BUR	CONSOLIDATED			X	

UTILITIES TABULATION (COMMUNICATION)							
STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
350+58 TO 350+75	24 RT TO 27 RT	T-BUR	CONSOLIDATED			X	
350+65 TO 351+72	24 LT TO 22 LT	T-BUR	CONSOLIDATED			X	
350+69 TO 351+72	32 LT TO 30 LT	T-BUR	CONSOLIDATED			X	
350+70 TO 351+72	33 LT TO 31 LT	T-BUR	CONSOLIDATED			X	
350+75 TO 351+74	27 RT TO 30 RT	T-BUR	CONSOLIDATED			X	
350+78 TO 351+05	40 RT TO 41 RT	T-BUR	CONSOLIDATED			X	
350+98 TO 351+06	43 RT TO 80 RT	T-BUR	CONSOLIDATED			X	
351+05 TO 351+75	38 RT TO 41 RT	T-BUR	CONSOLIDATED			X	
351+06 TO 351+72	39 RT TO 43 RT	T-BUR	CONSOLIDATED			X	
351+43 TO 351+83	405 RT TO 418 RT	T-BUR	CONSOLIDATED			X	
351+47 TO 351+70	86 LT TO 58 LT	T-BUR	CONSOLIDATED			X	
351+64 TO 351+83	366 RT TO 405 RT	T-BUR	CONSOLIDATED			X	
351+67 TO 351+86	188 RT TO 195 RT	T-BUR	CONSOLIDATED			X	
351+70 TO 351+87	58 LT TO 44 LT	T-BUR	CONSOLIDATED			X	
351+70 TO 351+74	499 LT TO 365 LT	T-BUR	CONSOLIDATED			X	
351+72 TO 351+75	38 RT TO 39 RT	T-BUR	CONSOLIDATED			X	
351+72 TO 351+90	41 LT TO 33 LT	T-BUR	CONSOLIDATED			X	
351+72 TO 351+90	36 LT TO 24 LT	T-BUR	CONSOLIDATED			X	
351+72 TO 351+90	38 LT TO 32 LT	T-BUR	CONSOLIDATED			X	
351+74 TO 351+75	30 RT TO 38 RT	T-BUR	CONSOLIDATED			X	
351+74 TO 351+84	365 LT TO 180 LT	T-BUR	CONSOLIDATED			X	
351+75	38 RT	TEL PED	CONSOLIDATED			X	
351+75 TO 351+83	38 RT TO 44 RT	T-BUR	CONSOLIDATED			X	
351+75 TO 351+79	38 RT TO 44 RT	T-BUR	CONSOLIDATED			X	
351+75 TO 351+80	38 RT TO 44 RT	T-BUR	CONSOLIDATED			X	
351+79 TO 351+81	44 RT TO 65 RT	T-BUR	CONSOLIDATED			X	
351+80 TO 351+82	44 RT TO 64 RT	T-BUR	CONSOLIDATED			X	
351+81 TO 351+86	65 RT TO 188 RT	T-BUR	CONSOLIDATED			X	
351+83	405 RT	TEL PED	CONSOLIDATED			X	
351+82 TO 351+88	64 RT TO 189 RT	T-BUR	CONSOLIDATED			X	
351+83 TO 351+86	404 RT TO 405 RT	T-BUR	CONSOLIDATED			X	
351+83 TO 352+52	44 RT	T-BUR	CONSOLIDATED			X	
351+84 TO 351+94	180 LT TO 116 LT	T-BUR	CONSOLIDATED			X	
351+83 TO 351+88	189 RT TO 326 RT	T-BUR	CONSOLIDATED			X	
351+83 TO 351+86	326 RT TO 404 RT	T-BUR	CONSOLIDATED			X	
351+87 TO 351+93	46 LT TO 44 LT	T-BUR	CONSOLIDATED			X	
351+88 TO 351+94	116 LT TO 62 LT	T-BUR	CONSOLIDATED			X	
351+88 TO 351+92	62 LT TO 46 LT	T-BUR	CONSOLIDATED			X	
351+90 TO 351+92	46 LT TO 41 LT	T-BUR	CONSOLIDATED			X	
351+90 TO 351+92	46 LT TO 38 LT	T-BUR	CONSOLIDATED			X	
351+90 TO 351+92	46 LT TO 36 LT	T-BUR	CONSOLIDATED			X	
351+93	46 LT	TEL PED	CONSOLIDATED			X	
351+93 TO 352+04	50 LT TO 46 LT	T-BUR	CONSOLIDATED			X	
352+04 TO 352+54	50 LT TO 43 LT	T-BUR	CONSOLIDATED			X	
352+52 TO 353+41	44 RT	T-BUR	CONSOLIDATED			X	
352+54 TO 353+07	46 LT TO 43 LT	T-BUR	CONSOLIDATED			X	
352+60	110 LT	COM HH	CONSOLIDATED			X	
353+07 TO 353+12	49 LT TO 46 LT	T-BUR	CONSOLIDATED			X	
353+11	49 LT	TEL PED	CONSOLIDATED			X	
353+11 TO 358+90	50 LT TO 40 LT	T-BUR	CONSOLIDATED			X	
353+15	27 LT TO 44 RT	T-BUR	CONSOLIDATED			X	
353+15 TO 353+40	43 RT TO 44 RT	T-BUR	CONSOLIDATED			X	
353+40 TO 353+41	41 RT TO 43 RT	T-BUR	CONSOLIDATED			X	
353+41 TO 353+43	41 RT TO 44 RT	T-BUR	CONSOLIDATED			X	
353+42	37 RT	TEL PED	CONSOLIDATED			X	
353+42 TO 353+43	37 RT TO 41 RT	T-BUR	CONSOLIDATED			X	
353+42 TO 354+92	37 RT TO 38 RT	T-BUR	CONSOLIDATED			X	
353+41 TO 353+42	37 RT TO 41 RT	T-BUR	CONSOLIDATED			X	
353+42	22 RT TO 37 RT	T-BUR	CONSOLIDATED			X	
353+42 TO 354+38	21 RT TO 22 RT	T-BUR	CONSOLIDATED			X	
354+38 TO 354+96	21 RT TO 34 RT	T-BUR	CONSOLIDATED			X	
354+68 TO 354+73	43 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
354+73 TO 354+92	38 RT TO 43 RT	T-BUR	CONSOLIDATED			X	
354+81 TO 354+92	38 RT TO 85 RT	T-BUR	CONSOLIDATED			X	
354+83 TO 354+92	38 RT TO 85 RT	T-BUR	CONSOLIDATED			X	
354+96 TO 359+94	34 RT TO 37 RT	T-BUR	CONSOLIDATED			X	
358+77 TO 358+85	68 LT TO 50 LT	T-BUR	CONSOLIDATED			X	
358+77 TO 358+79	78 LT TO 68 LT	T-BUR	CONSOLIDATED			X	
358+90	49 LT	TEL PED	CONSOLIDATED			X	
358+90 TO 358+91	49 LT TO 44 LT	T-BUR	CONSOLIDATED			X	

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UTILITIES TABULATION (COMMUNICATION)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
358+90 TO 360+12	49 LT TO 47 LT	T-BUR	CONSOLIDATED			X	
358+91 TO 360+12	44 LT	T-BUR	CONSOLIDATED			X	
359+92 TO 359+98	38 RT TO 65 RT	T-BUR	CONSOLIDATED			X	
359+94	35 RT	TEL PED	CONSOLIDATED			X	
359+94 TO 378+81	30 RT TO 74 RT	T-BUR	CONSOLIDATED			X	
360+12 TO 361+05	45 LT TO 44 LT	T-BUR	CONSOLIDATED			X	
360+12 TO 361+06	48 LT TO 47 LT	T-BUR	CONSOLIDATED			X	
361+05 TO 361+84	45 LT TO 44 LT	T-BUR	CONSOLIDATED			X	
361+06 TO 361+51	59 LT TO 48 LT	T-BUR	CONSOLIDATED			X	
361+51 TO 361+71	77 LT TO 59 LT	T-BUR	CONSOLIDATED			X	
361+84 TO 362+60	51 LT TO 44 LT	T-BUR	CONSOLIDATED			X	
362+60 TO 363+08	54 LT TO 51 LT	T-BUR	CONSOLIDATED			X	
362+69 TO 363+09	75 LT TO 59 LT	T-BUR	CONSOLIDATED			X	
363+08 TO 363+63	54 LT TO 44 LT	T-BUR	CONSOLIDATED			X	
363+09 TO 363+61	59 LT TO 45 LT	T-BUR	CONSOLIDATED			X	
363+61 TO 363+65	49 LT TO 45 LT	T-BUR	CONSOLIDATED			X	
363+63 TO 363+65	49 LT TO 44 LT	T-BUR	CONSOLIDATED			X	
363+65	49 LT	TEL PED	CONSOLIDATED			X	
378+81	74 LT	TEL PED	CONSOLIDATED			X	
378+65 TO 378+81	74 LT TO 495 LT	T-BUR	CONSOLIDATED			X	
383+54	74 RT	TEL PED	CONSOLIDATED			X	
383+54 TO 383+90	74 RT TO 75 LT	T-BUR	CONSOLIDATED			X	
383+90	74 LT	TEL PED	CONSOLIDATED			X	
383+90 TO 390+31	74 RT TO 38 RT	T-BUR	CONSOLIDATED			X	
390+31	51 RT	TEL PED	CONSOLIDATED			X	
390+31 TO 395+05	51 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
392+48	74 RT	TEL PED	CONSOLIDATED			X	
392+48 TO 392+66	72 RT TO 74 RT	T-BUR	CONSOLIDATED			X	
392+66 TO 394+29	71 RT TO 72 RT	T-BUR	CONSOLIDATED			X	
394+29 TO 395+03	71 RT TO 72 RT	T-BUR	CONSOLIDATED			X	
395+03 TO 395+05	72 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
395+05	73 RT	TEL PED	CONSOLIDATED			X	
395+05 TO 395+12	70 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
395+05 TO 395+08	67 RT TO 73 RT	T-BUR	CONSOLIDATED			X	
395+06 TO 395+08	41 LT TO 67 RT	T-BUR	CONSOLIDATED			X	
395+06 TO 395+13	44 LT TO 41 LT	T-BUR	CONSOLIDATED			X	
395+12 TO 395+39	68 RT TO 70 RT	T-BUR	CONSOLIDATED			X	
395+13 TO 396+64	44 LT TO 40 LT	T-BUR	CONSOLIDATED			X	
395+39 TO 395+49	68 RT TO 71 RT	T-BUR	CONSOLIDATED			X	
395+49 TO 395+60	71 RT TO 81 RT	T-BUR	CONSOLIDATED			X	
395+60 TO 395+67	81 RT TO 97 RT	T-BUR	CONSOLIDATED			X	
395+67	97 RT TO 117 RT	T-BUR	CONSOLIDATED			X	
396+57 TO 396+64	108 LT TO 53 LT	T-BUR	CONSOLIDATED			X	
396+64	53 LT	TEL PED	CONSOLIDATED			X	
396+64	53 LT TO 40 LT	T-BUR	CONSOLIDATED			X	
406+26 TO 406+33	49 LT TO 490 LT	T-BUR	CONSOLIDATED			X	
406+25 TO 418+83	49 LT TO 68 LT	T-BUR	CONSOLIDATED			X	
417+95 TO 417+98	107 LT TO 81 LT	T-BUR	CONSOLIDATED			X	
417+98 TO 418+06	81 LT TO 76 LT	T-BUR	CONSOLIDATED			X	
418+06 TO 418+09	76 LT TO 64 LT	T-BUR	CONSOLIDATED			X	
418+07 TO 418+84	70 LT TO 65 LT	T-BUR	CONSOLIDATED			X	
418+09 TO 418+82	64 LT	T-BUR	CONSOLIDATED			X	
418+82 TO 418+84	70 LT TO 64 LT	T-BUR	CONSOLIDATED			X	
418+84	70 LT	TEL PED	CONSOLIDATED			X	
418+84 TO 425+38	68 LT TO 66 LT	T-BUR	CONSOLIDATED			X	
418+84 TO 418+97	70 LT TO 72 RT	T-BUR	CONSOLIDATED			X	
418+97 TO 419+34	72 RT TO 75 RT	T-BUR	CONSOLIDATED			X	
419+34	75 RT	TEL PED	CONSOLIDATED			X	
419+33 TO 419+37	75 RT TO 77 RT	T-BUR	CONSOLIDATED			X	
419+33 TO 419+37	75 RT TO 78 RT	T-BUR	CONSOLIDATED			X	
419+37 TO 419+80	78 RT TO 87 RT	T-BUR	CONSOLIDATED			X	
419+37 TO 419+81	77 RT TO 86 RT	T-BUR	CONSOLIDATED			X	
419+80 TO 420+08	87 RT TO 120 RT	T-BUR	CONSOLIDATED			X	
419+81 TO 420+09	86 RT TO 120 RT	T-BUR	CONSOLIDATED			X	
425+38	66 LT	TEL PED	CONSOLIDATED			X	
425+38 TO 442+50	50 LT TO 75 LT	T-BUR	CONSOLIDATED			X	
442+50 TO 450+00	50 LT TO 46 LT	T-BUR	CONSOLIDATED			X	
450+00 TO 458+05	46 LT TO 48 LT	T-BUR	CONSOLIDATED			X	
425+38 TO 427+95	66 LT TO 61 LT	T-BUR	CONSOLIDATED			X	
427+93 TO 427+95	118 LT TO 61 LT	T-BUR	CONSOLIDATED			X	

UTILITIES TABULATION (COMMUNICATION)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
444+22 TO 444+37	110 LT TO 75 LT	T-BUR	CONSOLIDATED			X	
444+37	75 LT	TEL PED	CONSOLIDATED			X	
447+25 TO 450+94	46 LT	T-BUR	CONSOLIDATED			X	
458+05	70 LT	TEL PED	CONSOLIDATED			X	
458+05 TO 458+12	70 LT TO 39 RT	T-BUR	CONSOLIDATED			X	
458+05 TO 459+50	70 LT TO 76 LT	T-BUR	CONSOLIDATED			X	
458+13 TO 458+51	123 RT TO 145 RT	T-BUR	CONSOLIDATED			X	
458+51 TO 458+57	115 RT TO 123 RT	T-BUR	CONSOLIDATED			X	
458+57	115 RT	TEL PED	CONSOLIDATED			X	
458+57 TO 458+66	115 RT TO 121 RT	T-BUR	CONSOLIDATED			X	
458+57 TO 458+63	112 RT TO 115 RT	T-BUR	CONSOLIDATED			X	
458+63 TO 458+65	91 RT TO 112 RT	T-BUR	CONSOLIDATED			X	
458+65	71 RT TO 91 RT	T-BUR	CONSOLIDATED			X	
458+66 TO 458+76	121 RT TO 131 RT	T-BUR	CONSOLIDATED			X	
458+76 TO 458+77	131 RT TO 257 RT	T-BUR	CONSOLIDATED			X	
458+77 TO 458+79	257 RT TO 509 RT	T-BUR	CONSOLIDATED			X	
459+22 TO 459+50	76 LT TO 72 LT	T-BUR	CONSOLIDATED			X	
459+42 TO 459+43	493 LT TO 432 LT	F/O BURIED	CONSOLIDATED			X	
459+43 TO 459+46	432 LT TO 103 LT	F/O BURIED	CONSOLIDATED			X	
459+44	493 LT TO 432 LT	T-BUR	CONSOLIDATED			X	
459+44 TO 459+49	432 LT TO 105 LT	T-BUR	CONSOLIDATED			X	
459+46	103 LT TO 68 LT	F/O BURIED	CONSOLIDATED			X	
459+46	103 LT	COM HH	CONSOLIDATED			X	
459+46 TO 563+82	30 LT TO 75 LT	F/O BURIED	CONSOLIDATED			X	
459+47 TO 459+49	105 LT TO 103 LT	T-BUR	CONSOLIDATED			X	
459+47 TO 459+50	103 LT TO 70 LT	T-BUR	CONSOLIDATED			X	
459+49	105 LT	TEL PED	CONSOLIDATED			X	
459+49 TO 472+18	63 LT TO 67 LT	T-BUR	CONSOLIDATED			X	
472+18	74 LT	TEL PED	CONSOLIDATED			X	
472+18 TO 483+78	74 LT TO 59 LT	T-BUR	CONSOLIDATED			X	
483+38 TO 483+40	101 RT TO 105 RT	T-BUR	CONSOLIDATED			X	
483+40 TO 483+41	66 RT TO 101 RT	T-BUR	CONSOLIDATED			X	
483+41 TO 483+44	53 RT TO 66 RT	T-BUR	CONSOLIDATED			X	
483+44 TO 483+65	34 LT TO 53 RT	T-BUR	CONSOLIDATED			X	
483+78	70 LT	TEL PED	CONSOLIDATED			X	
483+78 TO 500+34	70 LT TO 43 LT	T-BUR	CONSOLIDATED			X	
500+34	43 LT	TEL PED	CONSOLIDATED			X	
500+34 TO 510+93	37 LT TO 70 LT	T-BUR	CONSOLIDATED			X	
500+35 TO 500+40	20 LT TO 105 RT	T-BUR	CONSOLIDATED			X	
500+36 TO 500+41	36 LT TO 33 LT	T-BUR	CONSOLIDATED			X	
502+26 TO 502+33	26 LT TO 26 RT	T-BUR	CONSOLIDATED			X	
502+31 TO 502+33	26 RT TO 97 RT	T-BUR	CONSOLIDATED			X	
510+93	70 LT	TEL PED	CONSOLIDATED			X	
510+93 TO 510+96	70 LT TO 67 LT	T-BUR	CONSOLIDATED			X	
510+96 TO 511+71	67 LT TO 65 LT	T-BUR	CONSOLIDATED			X	
510+95 TO 511+73	65 LT TO 63 LT	T-BUR	CONSOLIDATED			X	
511+71 TO 511+79	72 LT TO 65 LT	T-BUR	CONSOLIDATED			X	
511+73 TO 511+81	71 LT TO 63 LT	T-BUR	CONSOLIDATED			X	
511+79 TO 511+91	91 LT TO 72 LT	T-BUR	CONSOLIDATED			X	
511+81 TO 511+93	91 LT TO 71 LT	T-BUR	CONSOLIDATED			X	
511+91 TO 511+96	109 LT TO 91 LT	T-BUR	CONSOLIDATED			X	
511+93 TO 511+97	109 LT TO 91 LT	T-BUR	CONSOLIDATED			X	
511+96 TO 511+97	129 LT TO 109 LT	T-BUR	CONSOLIDATED			X	
511+97 TO 511+98	129 LT TO 109 LT	T-BUR	CONSOLIDATED			X	
519+95	66 LT	COM HH	CONSOLIDATED			X	
519+95	67 LT	TEL PED	CONSOLIDATED			X	
527+57	65 LT	COM HH	CONSOLIDATED			X	
527+57	68 LT	TEL PED	CONSOLIDATED			X	
563+63	66 LT	TEL PED	CONSOLIDATED			X	
563+63 TO 563+79	70 LT TO 66 LT	T-BUR	CONSOLIDATED			X	
563+63 TO 563+66	66 LT TO 62 LT	F/O BURIED	CONSOLIDATED			X	
563+30 TO 618+47	60 LT TO 80 LT	F/O BURIED	CONSOLIDATED			X	
563+66	62 LT TO 18 LT	F/O BURIED	CONSOLIDATED			X	
563+66 TO 563+75	18 LT TO 43 RT	T-BUR	CONSOLIDATED			X	
563+75 TO 563+85	43 RT TO 48 RT	T-BUR	CONSOLIDATED			X	
563+78 TO 564+23	112 LT TO 82 LT	T-BUR	CONSOLIDATED			X	
563+78 TO 563+79	82 LT TO 70 LT	T-BUR	CONSOLIDATED			X	
563+79	70 LT	TEL PED	CONSOLIDATED			X	
563+79 TO 563+84	71 LT TO 70 LT	T-BUR	CONSOLIDATED			X	
563+81	68 LT	COM MH	CONSOLIDATED			X	

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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 G. AMBERG
DATE: 4/6/2018 LIC. NO. 40646



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



UTILITY TABULATION

DATE: 4/6/2018 TIME: 12:26:32 PM
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UTILITIES TABULATION (COMMUNICATION)							
STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
563+84 TO 563+94	71 LT TO 67 LT	T-BUR	CONSOLIDATED			X	
563+85 TO 564+10	48 RT TO 51 RT	T-BUR	CONSOLIDATED			X	
563+94 TO 570+62	70 LT TO 66 LT	T-BUR	CONSOLIDATED			X	
564+10 TO 564+26	51 RT TO 62 RT	T-BUR	CONSOLIDATED			X	
564+19 TO 564+31	275 RT TO 484 RT	T-BUR	CONSOLIDATED			X	
564+24 TO 564+36	229 RT TO 250 RT	T-BUR	CONSOLIDATED			X	
564+24 TO 564+31	250 RT TO 275 RT	T-BUR	CONSOLIDATED			X	
564+26 TO 564+37	62 RT TO 82 RT	T-BUR	CONSOLIDATED			X	
564+31 TO 564+46	414 LT TO 131 LT	T-BUR	CONSOLIDATED			X	
564+36 TO 564+44	116 RT TO 229 RT	T-BUR	CONSOLIDATED			X	
564+37 TO 564+44	82 RT TO 116 RT	T-BUR	CONSOLIDATED			X	
564+43 TO 564+48	508 LT TO 415 LT	F/O BURIED	CONSOLIDATED			X	
564+46 TO 564+52	508 LT TO 414 LT	T-BUR	CONSOLIDATED			X	
570+62	68 LT	TEL PED	CONSOLIDATED			X	
570+62 TO 570+62	68 LT TO 61 RT	T-BUR	CONSOLIDATED			X	
570+61 TO 579+50	57 RT TO 68 RT	T-BUR	CONSOLIDATED			X	
579+50 TO 581+95	58 LT TO 57 LT	T-BUR	CONSOLIDATED			X	
580+68 TO 580+89	98 LT TO 73 LT	T-BUR	CONSOLIDATED			X	
580+89 TO 581+00	73 LT TO 69 LT	T-BUR	CONSOLIDATED			X	
581+00 TO 581+96	69 LT TO 68 LT	T-BUR	CONSOLIDATED			X	
581+95 TO 582+33	62 LT TO 58 LT	T-BUR	CONSOLIDATED			X	
581+96 TO 582+34	68 LT TO 67 LT	T-BUR	CONSOLIDATED			X	
582+33 TO 582+38	71 LT TO 62 LT	T-BUR	CONSOLIDATED			X	
582+34 TO 582+38	71 LT TO 67 LT	T-BUR	CONSOLIDATED			X	
582+38	71 LT	TEL PED	CONSOLIDATED			X	
584+51	81 LT	COM HH	CONSOLIDATED			X	
584+51	83 LT	TEL PED	CONSOLIDATED			X	
591+03	67 LT	COM HH	CONSOLIDATED			X	
591+03	68 LT	TEL PED	CONSOLIDATED			X	
597+16	69 LT	TEL PED	CONSOLIDATED			X	
618+45	67 LT	TEL PED	CONSOLIDATED			X	
618+45 TO 618+78	67 LT TO 112 LT	T-BUR	CONSOLIDATED			X	
618+78 TO 615+97	112 LT TO 690 LT	T-BUR	CONSOLIDATED			X	
618+45 TO 619+13	67 LT TO 84 RT	T-BUR	CONSOLIDATED			X	
618+47 TO 619+36	78 LT TO 71 LT	F/O BURIED	CONSOLIDATED			X	
618+78 TO 620+28	67 LT TO 91 LT	T-BUR	CONSOLIDATED			X	
618+78 TO 620+31	67 LT TO 92 LT	T-BUR	CONSOLIDATED			X	
619+13	84 RT	TEL PED	CONSOLIDATED			X	
619+13 TO 619+48	84 RT TO 98 RT	T-BUR	CONSOLIDATED			X	
619+48 TO 620+83	98 RT TO 478 RT	T-BUR	CONSOLIDATED			X	
619+36 TO 620+19	86 LT TO 78 LT	F/O BURIED	CONSOLIDATED			X	
619+70 TO 620+13	201 RT TO 314 RT	F/O BURIED	CONSOLIDATED			X	
619+75 TO 620+17	200 RT TO 313 RT	F/O BURIED	CONSOLIDATED			X	
619+75 TO 619+93	188 RT TO 200 RT	F/O BURIED	CONSOLIDATED			X	
619+93 TO 620+26	168 RT TO 188 RT	F/O BURIED	CONSOLIDATED			X	
620+13 TO 620+58	314 RT TO 440 RT	F/O BURIED	CONSOLIDATED			X	
620+17 TO 620+62	313 RT TO 441 RT	F/O BURIED	CONSOLIDATED			X	
620+19 TO 620+33	89 LT TO 86 LT	F/O BURIED	CONSOLIDATED			X	
620+26 TO 620+47	154 RT TO 168 RT	F/O BURIED	CONSOLIDATED			X	
620+28	91 LT	TEL PED	CONSOLIDATED			X	
620+31	92 LT	TEL PED	CONSOLIDATED			X	
620+33	89 LT	COM MH	CONSOLIDATED			X	
620+31 TO 625+61	82 LT TO 77 LT	F/O BURIED	CONSOLIDATED			X	
620+33 TO 620+36	89 LT TO 82 LT	F/O BURIED	CONSOLIDATED			X	
620+36 TO 620+43	82 LT TO 80 LT	F/O BURIED	CONSOLIDATED			X	
620+43 TO 620+80	80 LT TO 68 LT	F/O BURIED	CONSOLIDATED			X	
620+47 TO 620+79	108 RT TO 154 RT	F/O BURIED	CONSOLIDATED			X	
620+58 TO 620+71	440 RT TO 480 RT	F/O BURIED	CONSOLIDATED			X	
620+62 TO 620+75	441 RT TO 480 RT	F/O BURIED	CONSOLIDATED			X	
620+79 TO 621+01	65 RT TO 108 RT	F/O BURIED	CONSOLIDATED			X	
620+80 TO 620+89	68 LT TO 54 LT	F/O BURIED	CONSOLIDATED			X	
620+89 TO 620+97	54 LT TO 27 LT	F/O BURIED	CONSOLIDATED			X	
620+97 TO 621+02	27 LT TO 36 RT	F/O BURIED	CONSOLIDATED			X	
621+01 TO 621+02	36 RT TO 65 RT	F/O BURIED	CONSOLIDATED			X	

UTILITIES TABULATION (COMMUNICATION)							
STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
620+31 TO 621+49	92 LT TO 97 LT	F/O BURIED	CONSOLIDATED			X	
621+49 TO 624+95	97 LT TO 88 LT	F/O BURIED	CONSOLIDATED			X	
624+95 TO 626+62	88 LT TO 44 LT	F/O BURIED	CONSOLIDATED			X	
626+62 TO 629+57	44 LT TO 27 LT	F/O BURIED	CONSOLIDATED			X	
629+57 TO 631+69	27 LT TO 27 LT	F/O BURIED	CONSOLIDATED			X	
626+95 TO 647+41	40 LT TO 156 LT	T-BUR	CONSOLIDATED			X	
647+26 TO 647+46	88 LT TO 108 RT	T-BUR	CONSOLIDATED			X	
647+41 TO 657+45	156 LT TO 241 LT	T-BUR	CONSOLIDATED			X	
647+46 TO 671+08	108 RT TO 52 LT	T-BUR	CONSOLIDATED			X	
671+08 TO 689+61	52 LT TO 67 LT	T-BUR	CONSOLIDATED			X	
671+08 TO 671+57	51 LT TO 212 LT	T-BUR	CONSOLIDATED			X	
685+84 TO 689+61	153 LT TO 67 LT	T-BUR	CONSOLIDATED			X	
686+29 TO 689+57	116 RT TO 72 RT	T-BUR	CONSOLIDATED			X	
686+49	79 RT	TEL PED	CONSOLIDATED			X	
686+65 TO 690+46	96 RT TO 139 RT	T-BUR	CONSOLIDATED			X	
689+38 TO 689+57	133 RT TO 72 RT	T-BUR	CONSOLIDATED			X	
689+57	72 RT	TEL PED	CONSOLIDATED			X	
689+57 TO 689+61	71 RT TO 61 LT	T-BUR	CONSOLIDATED			X	
689+61	67 LT	TEL PED	CONSOLIDATED			X	
689+61 TO 701+07	67 LT TO 214 LT	T-BUR	CONSOLIDATED			X	
689+61 TO 692+28	67 LT TO 137 LT	T-BUR	CONSOLIDATED			X	
692+32	51 LT	TEL PED	CONSOLIDATED			X	
697+28 TO 714+69	133 LT TO 76 LT	T-BUR	CONSOLIDATED			X	
700+70	65 LT	TEL PED	CONSOLIDATED			X	
705+22 TO 705+28	94 LT TO 74 RT	T-BUR	CONSOLIDATED			X	
705+22 TO 705+35	94 LT TO 128 LT	T-BUR	CONSOLIDATED			X	
705+22 TO 705+36	94 LT TO 128 LT	T-BUR	CONSOLIDATED			X	
705+22 TO 705+36	94 LT TO 128 LT	T-BUR	CONSOLIDATED			X	
705+22	94 LT	TEL PED	CONSOLIDATED			X	
705+22 TO 705+29	94 LT TO 74 RT	T-BUR	CONSOLIDATED			X	
705+22 TO 705+37	94 LT TO 128 LT	T-BUR	CONSOLIDATED			X	
705+22 TO 705+38	94 LT TO 127 LT	T-BUR	CONSOLIDATED			X	
705+29	74 RT	TEL PED	CONSOLIDATED			X	
705+29 TO 723+39	74 RT TO 121 RT	T-BUR	CONSOLIDATED			X	
705+29 TO 705+46	74 RT TO 230 RT	T-BUR	CONSOLIDATED			X	
711+66	73 RT	TEL PED	CONSOLIDATED			X	
714+48	70 RT	TEL PED	CONSOLIDATED			X	
714+48 TO 716+41	70 RT TO 163 RT	T-BUR	CONSOLIDATED			X	
714+48 TO 714+69	70 RT TO 76 LT	T-BUR	CONSOLIDATED			X	
714+64 TO 714+69	114 LT TO 76 LT	T-BUR	CONSOLIDATED			X	
714+69	76 LT	TEL PED	CONSOLIDATED			X	
719+74 TO 727+74	223 LT TO 205 LT	F/O BURIED	CONSOLIDATED			X	
719+79	77 LT	TEL MH	CONSOLIDATED			X	
719+79	80 LT	TEL PED	CONSOLIDATED			X	
720+73 TO 727+76	64 RT TO 186 LT	T-BUR	CONSOLIDATED			X	
720+74	64 RT	TEL PED	CONSOLIDATED			X	
720+80	82 LT	TEL PED	CONSOLIDATED			X	
720+80 TO 720+97	82 LT TO 128 LT	T-BUR	CONSOLIDATED			X	
721+05	82 LT	TEL PED	CONSOLIDATED			X	
722+72	81 LT	TEL PED	CONSOLIDATED			X	
727+71 TO 730+25	1092 LT TO 244 LT	F/O BURIED	CONSOLIDATED			X	
727+74 TO 729+68	205 LT TO 45 RT	F/O BURIED	CONSOLIDATED			X	
727+76 TO 730+91	186 LT TO 66 RT	T-BUR	CONSOLIDATED			X	
727+84 TO 730+25	209 LT TO 244 LT	F/O BURIED	CONSOLIDATED			X	
728+99 TO 729+13	977 RT TO 174 RT	F/O BURIED	CONSOLIDATED			X	
729+13 TO 729+68	174 RT TO 45 RT	F/O BURIED	CONSOLIDATED			X	
730+22 TO 730+69	220 LT TO 698 LT	F/O BURIED	CONSOLIDATED			X	
730+22 TO 730+41	220 LT TO 220 LT	F/O BURIED	CONSOLIDATED			X	
730+41	220 LT	TEL MH	CONSOLIDATED			X	
730+44	220 LT	TEL PED	CONSOLIDATED			X	
730+84	67 RT	TEL PED	CONSOLIDATED			X	
730+97 TO 751+75	68 RT TO 52 RT	F/O BURIED	CONSOLIDATED			X	
742+37 TO 742+37	71 RT TO 220 RT	F/O BURIED	CONSOLIDATED			X	
743+28	73 RT	TEL PED	CONSOLIDATED			X	
743+52	74 RT	TEL PED	CONSOLIDATED			X	
749+63	67 RT	TEL PED	CONSOLIDATED			X	
751+75 TO 761+25	52 RT TO 53 RT	F/O BURIED	CONSOLIDATED			X	
761+25 TO 681+19	53 RT TO 218 LT	F/O BURIED	CONSOLIDATED			X	
670+67 TO 670+75	52 RT TO 53 RT	F/O BURIED	CONSOLIDATED			X	
681+19 TO 718+69	54 RT TO 58 RT	T-BUR	CONSOLIDATED			X	

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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 G. AMBERG
 DATE: 4/6/2018 LIC. NO. 40646



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



UTILITY TABULATION

STATE PROJ. NO. 0704-110 (T.H. 22)
 Sheet No. 19 of 131 Sheets

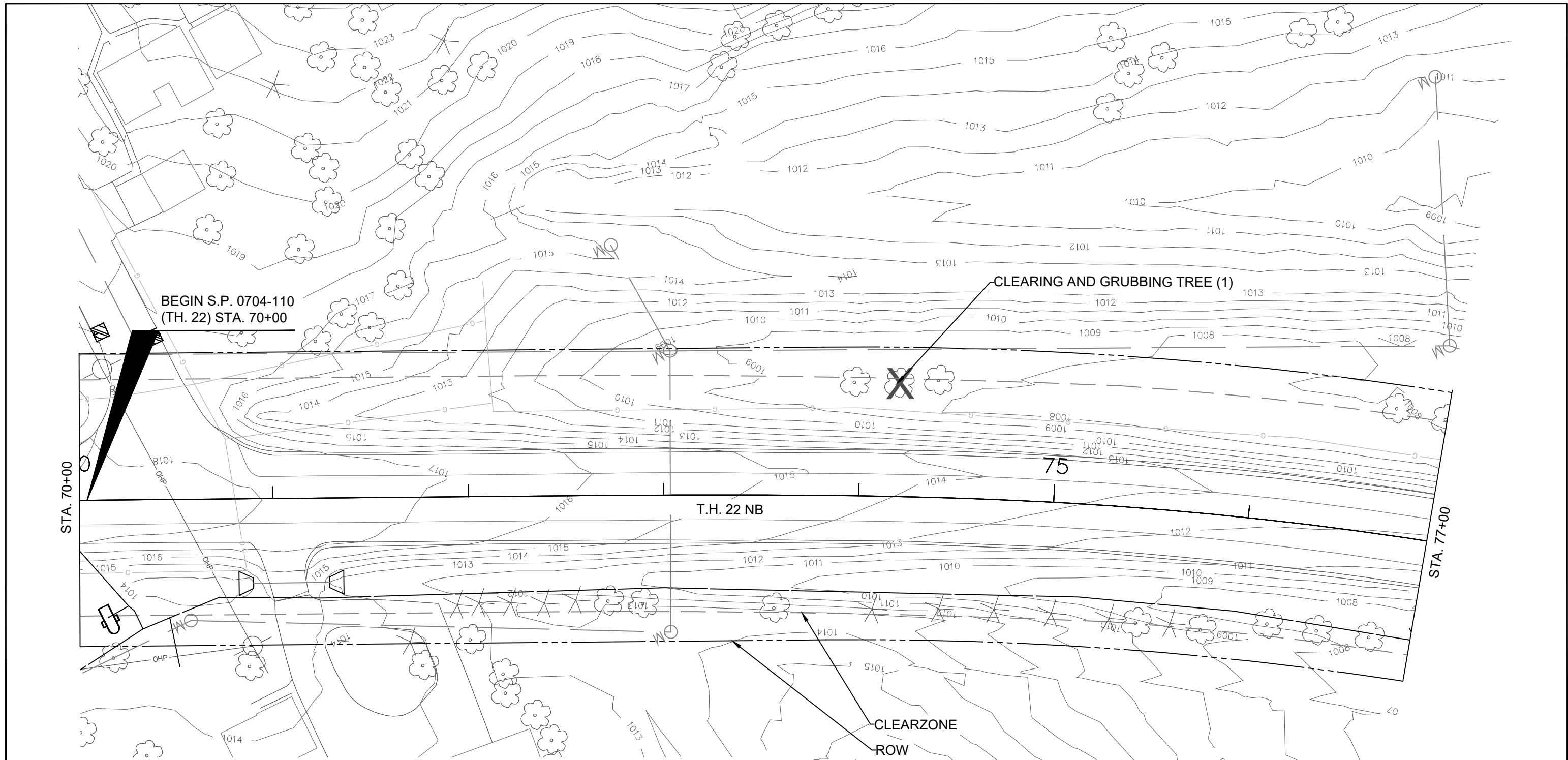
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UTILITIES TABULATION (COMMUNICATION)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
718+69 TO 718+80	58 RT TO 67 LT	T-BUR	CONSOLIDATED			X	
718+80 TO 734+13	67 LT TO 215 LT	T-BUR	CONSOLIDATED			X	
706+94 TO 706+95	67 RT TO 296 RT	T-BUR	CONSOLIDATED			X	
708+95 TO 710+36	65 RT TO 117 LT	T-BUR	CONSOLIDATED			X	
686+09 TO 692+65	144 LT TO 66 RT	BURIED TV	CHARTER			X	
686+38 TO 686+66	122 RT TO 110 RT	BURIED TV	CHARTER			X	
686+63 TO 725+89	102 RT TO 76 RT	BURIED TV	CHARTER			X	
686+63	102 RT	TV PED	CHARTER			X	
690+41 TO 690+50	132 RT TO 73 RT	BURIED TV	CHARTER			X	
690+50	73 RT	TV PED	CHARTER			X	
692+32 TO 692+56	51 LT TO 106 LT	BURIED TV	CHARTER			X	
692+41 TO 692+65	159 RT TO 66 RT	BURIED TV	CHARTER			X	
692+65	66 RT	TV PED	CHARTER			X	
697+22 TO 701+42	132 LT TO 104 LT	BURIED TV	CHARTER			X	
697+31	54 LT	TV PED	CHARTER			X	
698+52	55 LT	TV PED	CHARTER			X	
701+27 TO 701+42	70 RT TO 104 LT	BURIED TV	CHARTER			X	
701+27	70 RT	TV PED	CHARTER			X	
701+42 TO 701+60	104 LT TO 213 LT	BURIED TV	CHARTER			X	
705+17 TO 705+29	73 RT TO 132 LT	BURIED TV	CHARTER			X	
705+18	73 RT	TV PED	CHARTER			X	
710+63 TO 710+64	54 RT TO 116 RT	BURIED TV	CHARTER			X	
710+63 TO 711+64	54 RT TO 73 RT	BURIED TV	CHARTER			X	
711+64	73 RT	TV PED	CHARTER			X	
711+71 TO 711+98	53 RT TO 140 LT	BURIED TV	CHARTER			X	
712+22 TO 720+74	123 RT TO 64 RT	BURIED TV	CHARTER			X	
714+53	71 RT	TV PED	CHARTER			X	
714+53 TO 716+40	71 RT TO 164 RT	BURIED TV	CHARTER			X	
720+25 TO 720+30	169 RT TO 65 RT	BURIED TV	CHARTER			X	
720+30	65 RT	TV PED	CHARTER			X	
720+30 TO 720+63	65 RT TO 84 RT	BURIED TV	CHARTER			X	
725+89 TO 730+97	76 RT TO 67 RT	F/O BURIED	CHARTER			X	
725+89	76 RT	TV PED	CHARTER			X	
729+28 TO 730+55	38 RT TO 62 RT	F/O BURIED	CHARTER			X	
730+97 TO 751+75	67 RT TO 51 RT	F/O BURIED	CHARTER			X	
736+91 TO 742+15	93 LT TO 83 LT	F/O BURIED	CHARTER			X	
742+13 TO 742+15	88 RT TO 83 LT	F/O BURIED	CHARTER			X	
743+59	75 LT	TV PED	CHARTER			X	
751+75 TO 761+26	51 RT TO 47 RT	F/O BURIED	CHARTER			X	
751+94 TO 761+73	80 LT TO 78 LT	F/O BURIED	CHARTER			X	
761+73 TO 678+30	49 RT TO 57 RT	BURIED TV	CHARTER			X	
761+73 TO 687+03	78 LT TO 90 LT	F/O BURIED	CHARTER			X	
672+37	76 RT	TV PED	CHARTER			X	
675+20	66 RT	TV PED	CHARTER			X	
678+30 TO 678+32	57 RT TO 57 LT	BURIED TV	CHARTER			X	
678+32 TO 688+01	45 LT TO 64 LT	BURIED TV	CHARTER			X	
678+30	57 RT	TV PED	CHARTER			X	
678+32	57 LT	TV PED	CHARTER			X	
687+42 TO 709+60	97 LT TO 67 LT	F/O BURIED	CHARTER			X	
687+42 TO 687+51	97 LT TO 152 RT	BURIED TV	CHARTER			X	
687+42	97 LT	TV PED	CHARTER			X	
688+01 TO 709+70	64 LT TO 65 LT	BURIED TV	CHARTER			X	
694+15 TO 694+36	198 RT TO 67 LT	BURIED TV	CHARTER			X	
709+70 TO 709+70	65 LT TO 122 LT	BURIED TV	CHARTER			X	
709+60 TO 733+97	67 LT TO 78 LT	F/O BURIED	CHARTER			X	
710+19	70 LT	TV PED	CHARTER			X	
733+97	78 LT	TV PED	CHARTER			X	
734+00	64 RT	TV PED	CHARTER			X	
352+51 TO 352+79	500 LT TO 491 RT	F/O BURIED	FRONTIER			X	
619+02 TO 619+12	80 RT TO 81 RT	F/O BURIED	FRONTIER			X	
619+02	80 RT	COM HH	FRONTIER			X	
619+02 TO 619+37	80 RT TO 108 RT	F/O BURIED	FRONTIER			X	
619+37 TO 619+70	108 RT TO 201 RT	F/O BURIED	FRONTIER			X	
619+02 TO 619+12	80 RT TO 81 RT	F/O BURIED	MIDCONTINENT			X	
619+02 TO 619+12	80 RT TO 81 RT	F/O BURIED	MIDCONTINENT			X	

UTILITIES TABULATION (WATER)

STATION TO STATION	OFFSET (FT)	ITEM INPLACE	OWNER	ACTION			REMARKS
				ADJUST	RELOCATE	LEAVE AS IS	
TH 22 NB							
69+05 TO 70+33	66 RT TO 148 RT	WATER	CITY OF MAPLETON			X	
69+60 TO 69+94	155 LT TO 79 LT	WATER	CITY OF MAPLETON			X	
69+93 TO 69+99	25 LT TO 24 RT	WATER	CITY OF MAPLETON			X	
69+93 TO 69+94	79 LT TO 25 LT	WATER	CITY OF MAPLETON			X	
69+99 TO 70+26	24 RT TO 54 RT	WATER	CITY OF MAPLETON			X	
70+15 TO 70+26	54 RT TO 60 RT	WATER	CITY OF MAPLETON			X	
70+26 TO 70+28	54 RT TO 57 RT	WATER	CITY OF MAPLETON			X	
70+28 TO 70+33	57 RT TO 66 RT	WATER	CITY OF MAPLETON			X	
70+33 TO 70+72	50 RT TO 66 RT	WATER	CITY OF MAPLETON			X	
70+47 TO 70+51	60 RT TO 86 RT	WATER	CITY OF MAPLETON			X	
70+72 TO 81+15	47 RT TO 54 RT	WATER	CITY OF MAPLETON			X	
81+15 TO 81+15	24 LT TO 50 RT	WATER	CITY OF MAPLETON			X	
81+15 TO 81+21	103 LT TO 24 LT	WATER	CITY OF MAPLETON			X	
81+21 TO 81+53	147 LT TO 103 LT	WATER	CITY OF MAPLETON			X	



BEGIN S.P. 0704-110
(TH. 22) STA. 70+00

CLEARING AND GRUBBING TREE (1)

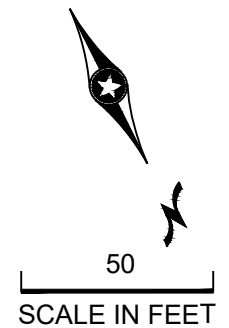
T.H. 22 NB

75

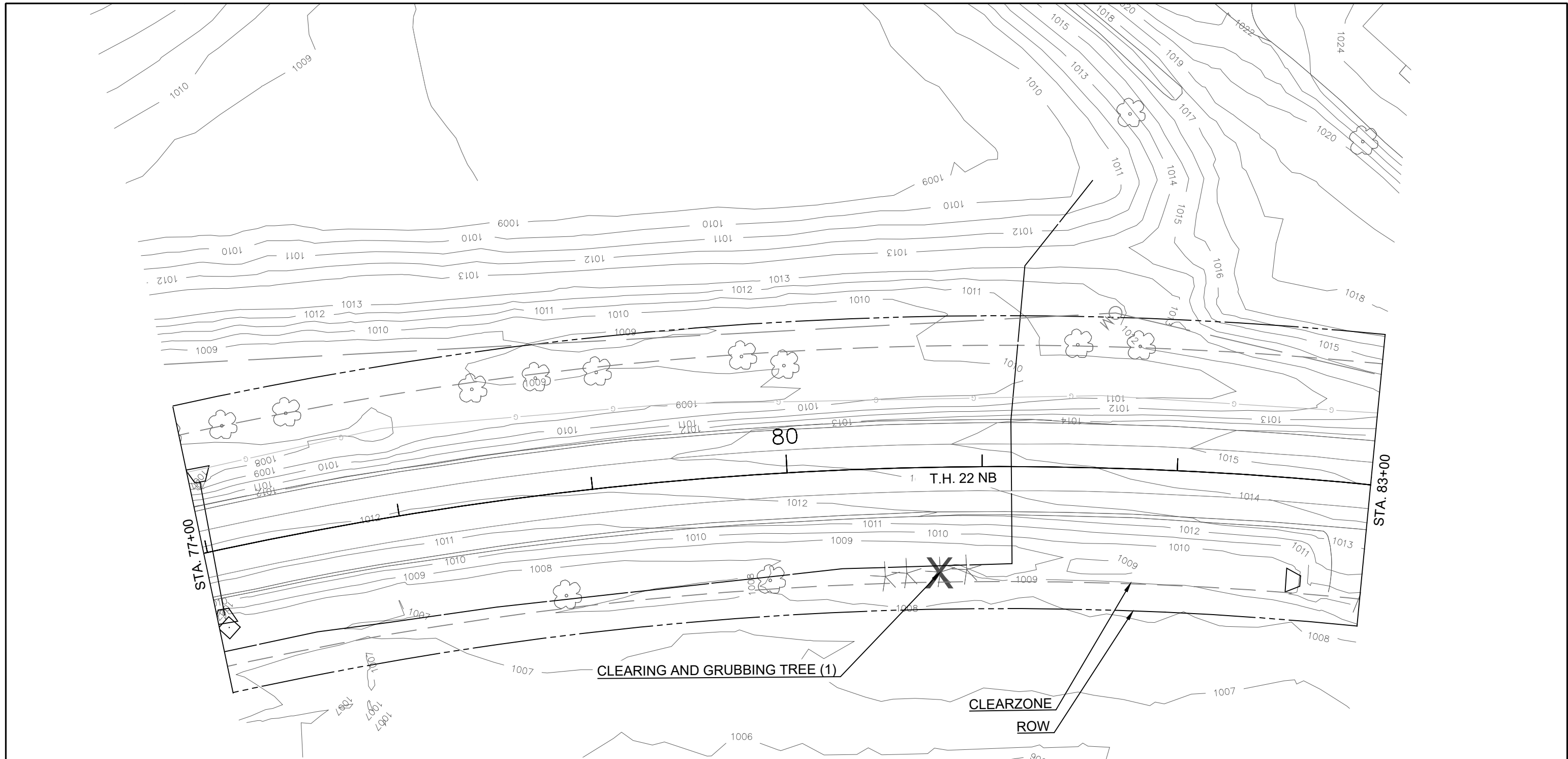
CLEARZONE
ROW

LEGEND

BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE	G	RIGHT OF WAY	
BURIED FIBER OPTIC LINE	F/O-BUR	CLEAR ZONE	
BURIED COMMUNICATION LINE	T-BUR	CLEARING & GRUBBING (1 TREES)	X
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.0 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

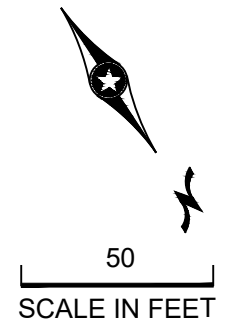


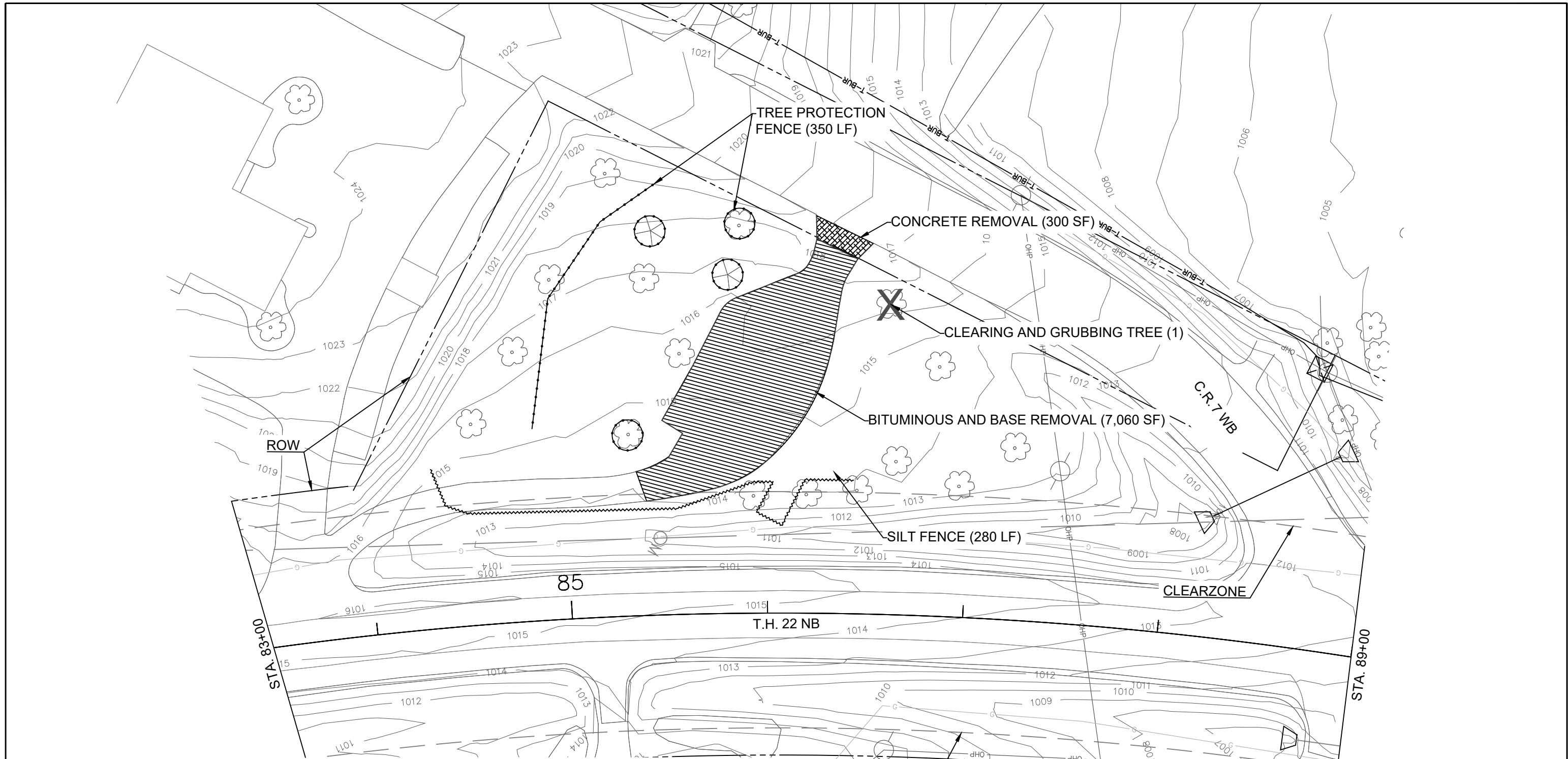
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TIME:
DATE:
FILENAME:

LEGEND			
BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CLEAR ZONE	— — — —
BURIED COMMUNICATION LINE	— T-BUR —	CLEARING & GRUBBING (1 TREES)	X
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.0 ACRES)	▨
BURIED SANITARY SEWER	— — — —		
DRAINAGE PIPE INPLACE	— — — —		

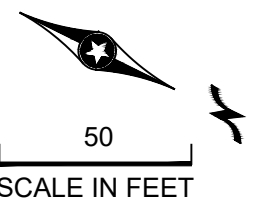




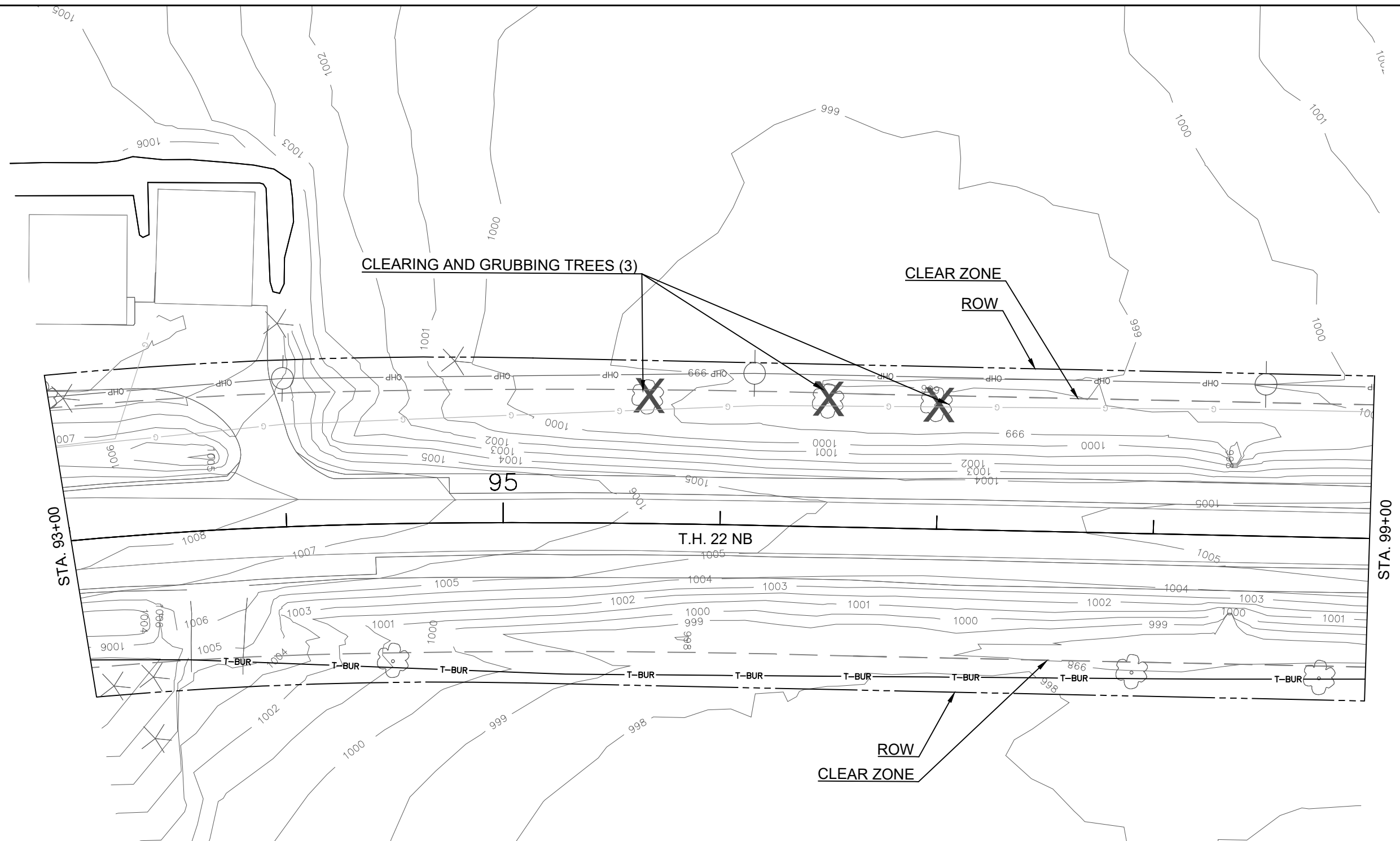
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FILENAME:

LEGEND		
BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE
POWER POLE	○	WATER HYDRANT
BURIED GAS LINE	— G —	RIGHT OF WAY
BURIED FIBER OPTIC LINE	— F/O-BUR —	CLEAR ZONE
BURIED COMMUNICATION LINE	— T-BUR —	CLEARING & GRUBBING (1 TREES)
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.0 ACRES)
BURIED SANITARY SEWER	— — — — —	
DRAINAGE PIPE INPLACE	— — — — —	

— — — — —	SILT FENCE (280 LF)
⊠	CONCRETE REMOVAL (300 SF)
▨	BITUMINOUS AND BASE REMOVAL (7,060 SF)
— — — — —	TREE PROTECTION FENCE (350 LF)

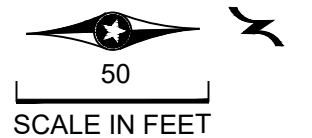


TIME:
DATE:
FILENAME:



LEGEND

BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	— —
POWER POLE	○	WATER HYDRANT	⊥
BURIED GAS LINE	G	RIGHT OF WAY	— —
BURIED FIBER OPTIC LINE	F/O-BUR	CLEAR ZONE	- - - -
BURIED COMMUNICATION LINE	T-BUR	CLEARING & GRUBBING (3 TREES)	X
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.0 ACRES)	▨
BURIED SANITARY SEWER	— —		
DRAINAGE PIPE INPLACE	— —		



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 REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: _____
PRINTED NAME: CANDACE C. AMBERG
DATE: 04/03/2018 LIC. NO. 40646

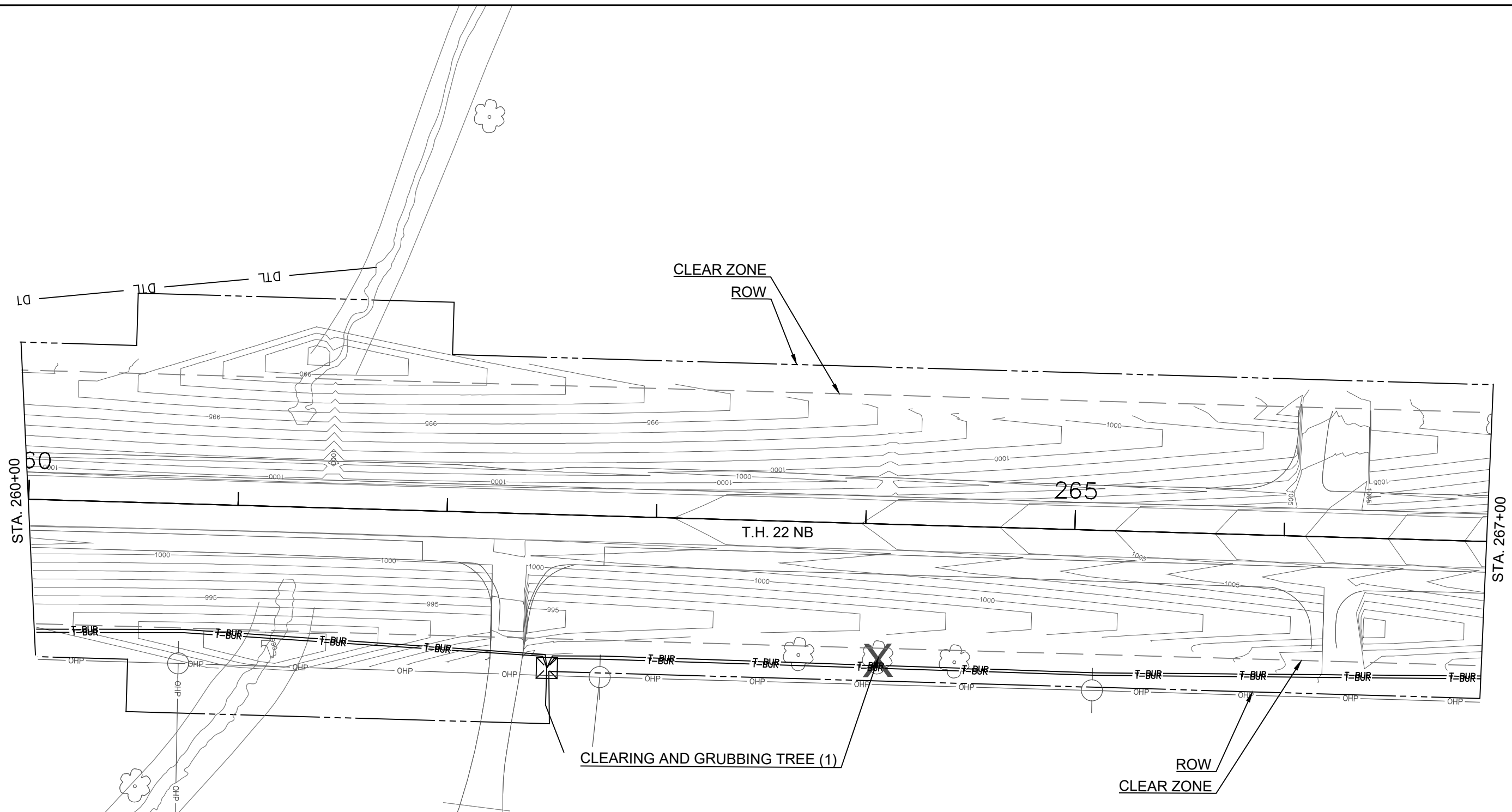


MINNESOTA DEPARTMENT OF TRANSPORTATION
TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO



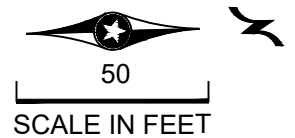
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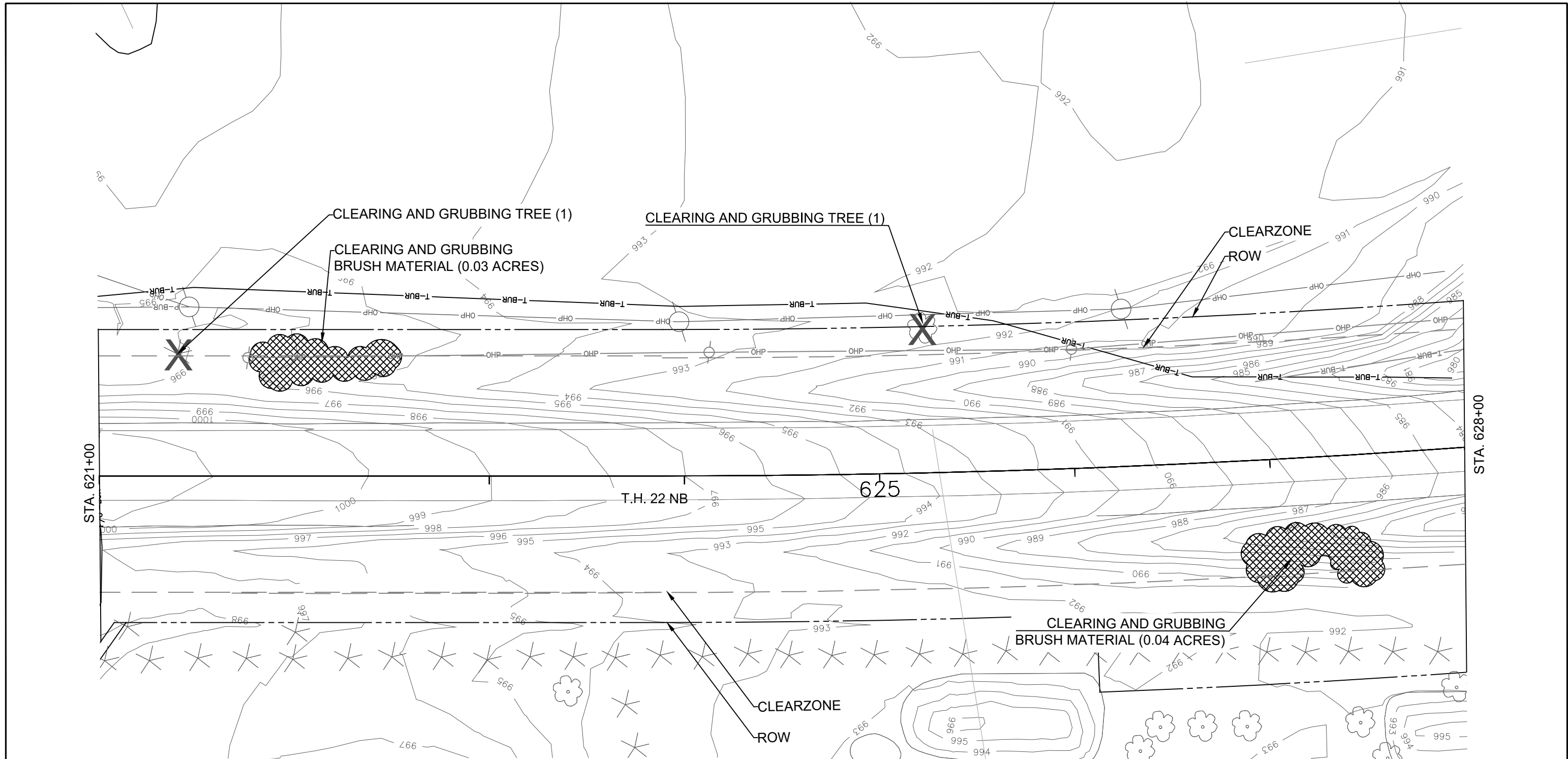
STATE PROJ.NO. 0704-110(T.H. 22)
Sheet No. 24 of 131 Sheets



DATE: FILENAME:
TIME:

LEGEND			
BURIED POWER LINE		P-BUR	
OVERHEAD POWER LINE		OHP	
POWER POLE			
BURIED GAS LINE		G	
BURIED FIBER OPTIC LINE		F/O -BUR	
BURIED COMMUNICATION LINE		T-BUR	
COMMUNICATION PEDESTAL			
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			
SANITARY MANHOLE		OM	
BURIED WATER LINE			
WATER HYDRANT			
RIGHT OF WAY			
CLEAR ZONE			
CLEARING & GRUBBING (1 TREES)			
CLEARING & GRUBBING (0.0 ACRES)			



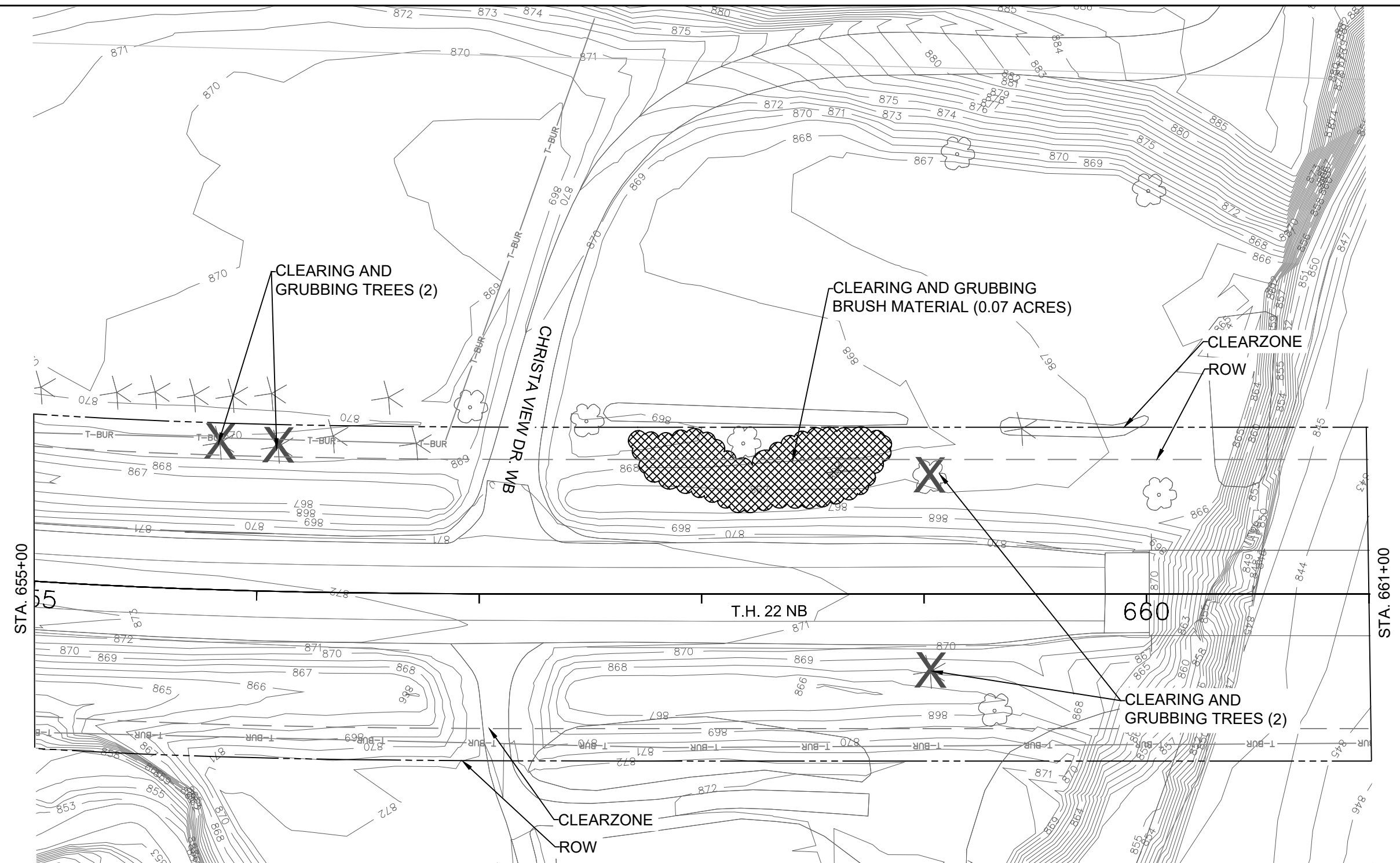


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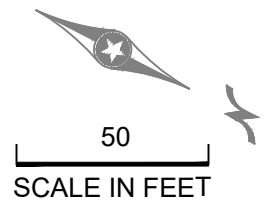
LEGEND		
BURIED POWER LINE	P-BUR	SANITARY MANHOLE
OVERHEAD POWER LINE	OHP	BURIED WATER LINE
POWER POLE	○	WATER HYDRANT
BURIED GAS LINE	-G-	RIGHT OF WAY
BURIED FIBER OPTIC LINE	F/O-BUR	CLEAR ZONE
BURIED COMMUNICATION LINE	T-BUR	CLEARING & GRUBBING (2 TREES)
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.07 ACRES)
BURIED SANITARY SEWER	-SS-	
DRAINAGE PIPE INPLACE	-DIP-	

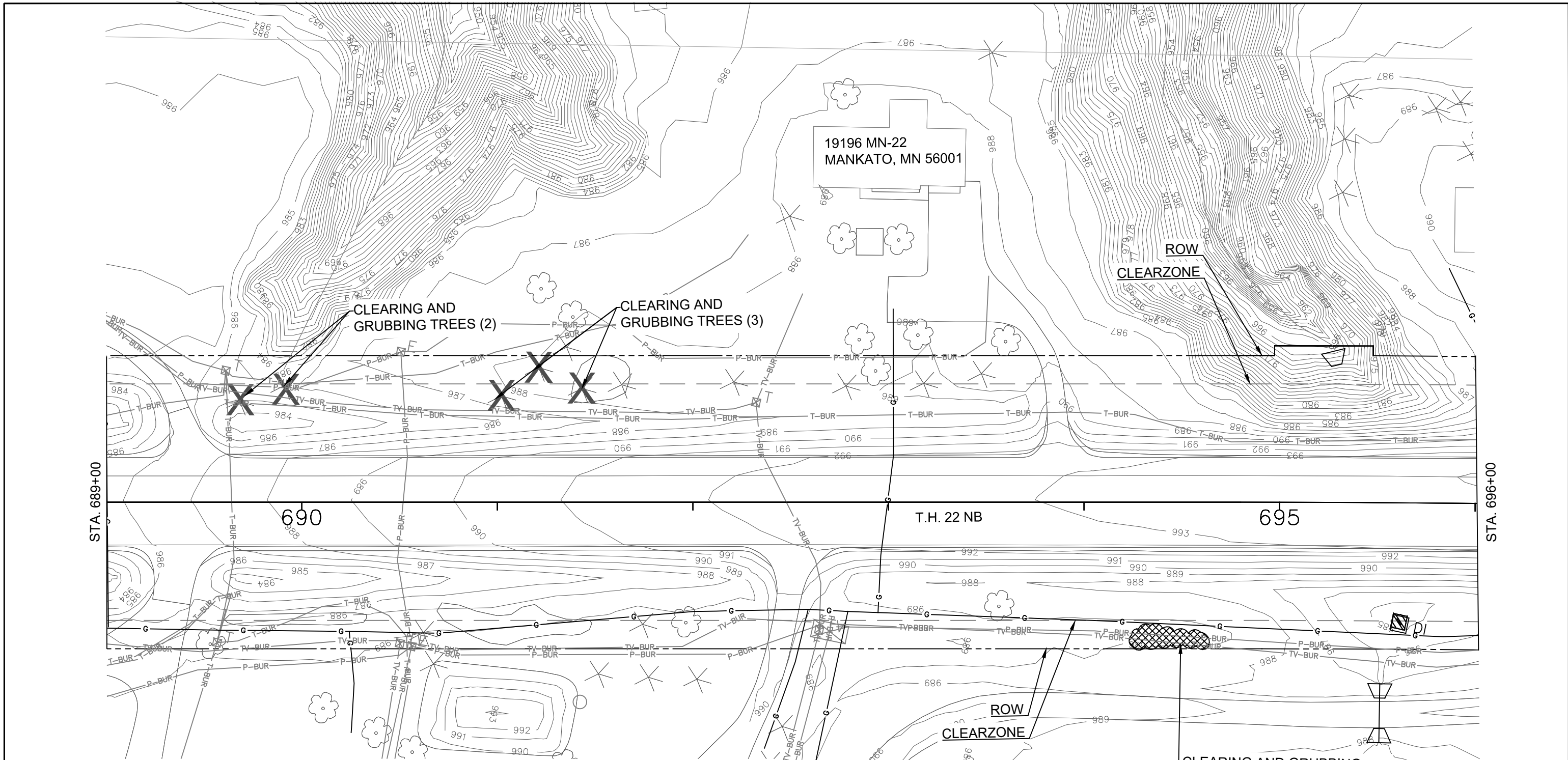


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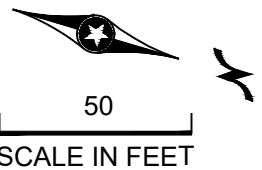
LEGEND			
BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	G	RIGHT OF WAY	---
BURIED FIBER OPTIC LINE	F/O-BUR	CLEAR ZONE	---
BURIED COMMUNICATION LINE	T-BUR	CLEARING & GRUBBING (4 TREES)	X
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.07 ACRES)	▨
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



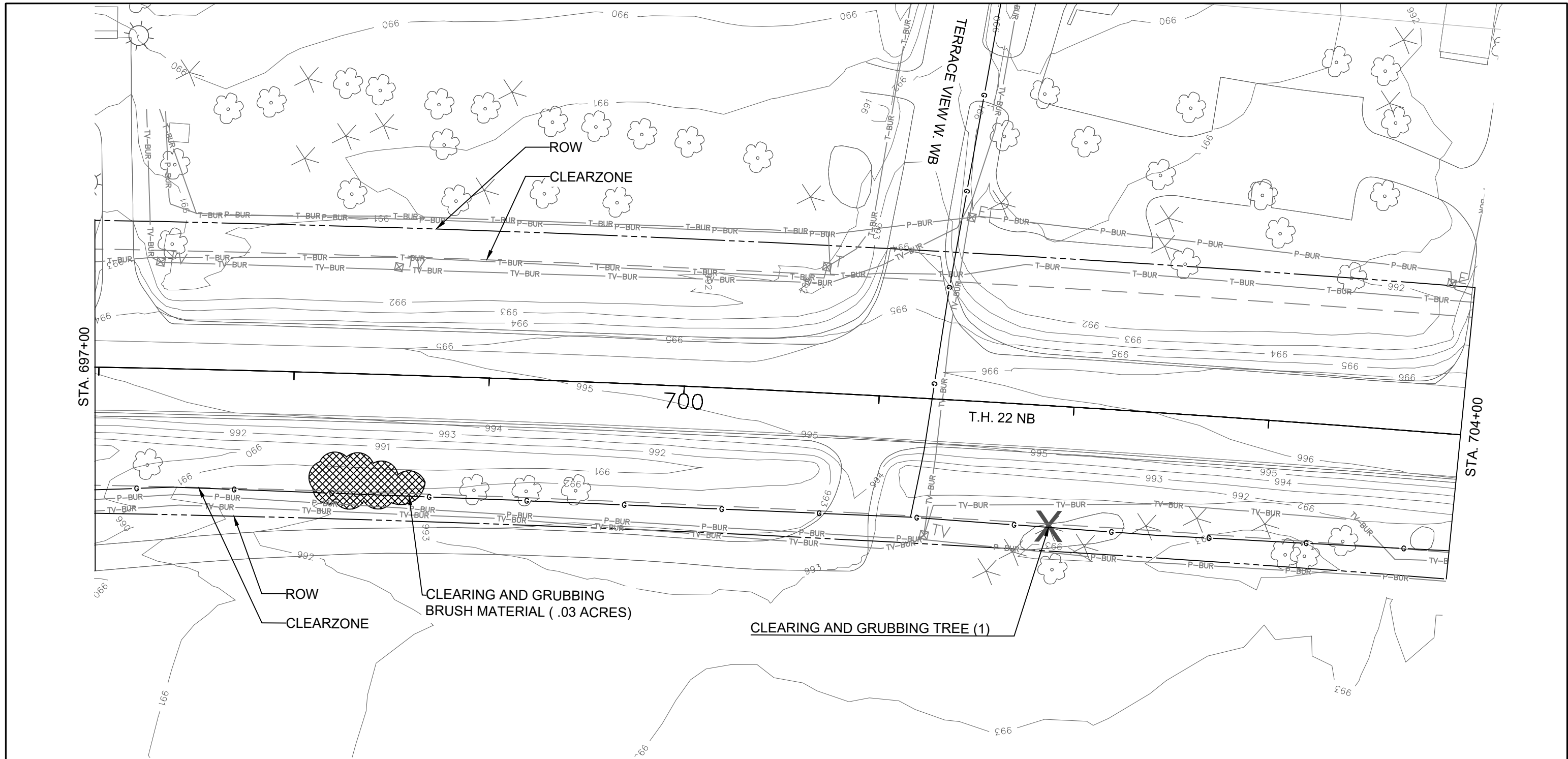


LEGEND

BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	—
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	G	RIGHT OF WAY	—
BURIED FIBER OPTIC LINE	F/O -BUR	CLEAR ZONE	—
BURIED COMMUNICATION LINE	T-BUR	CLEARING & GRUBBING (5 TREES)	X
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.01 ACRES)	▨
BURIED SANITARY SEWER	—		
DRAINAGE PIPE INPLACE	—		

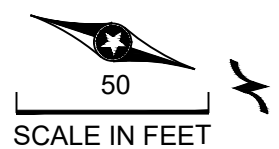


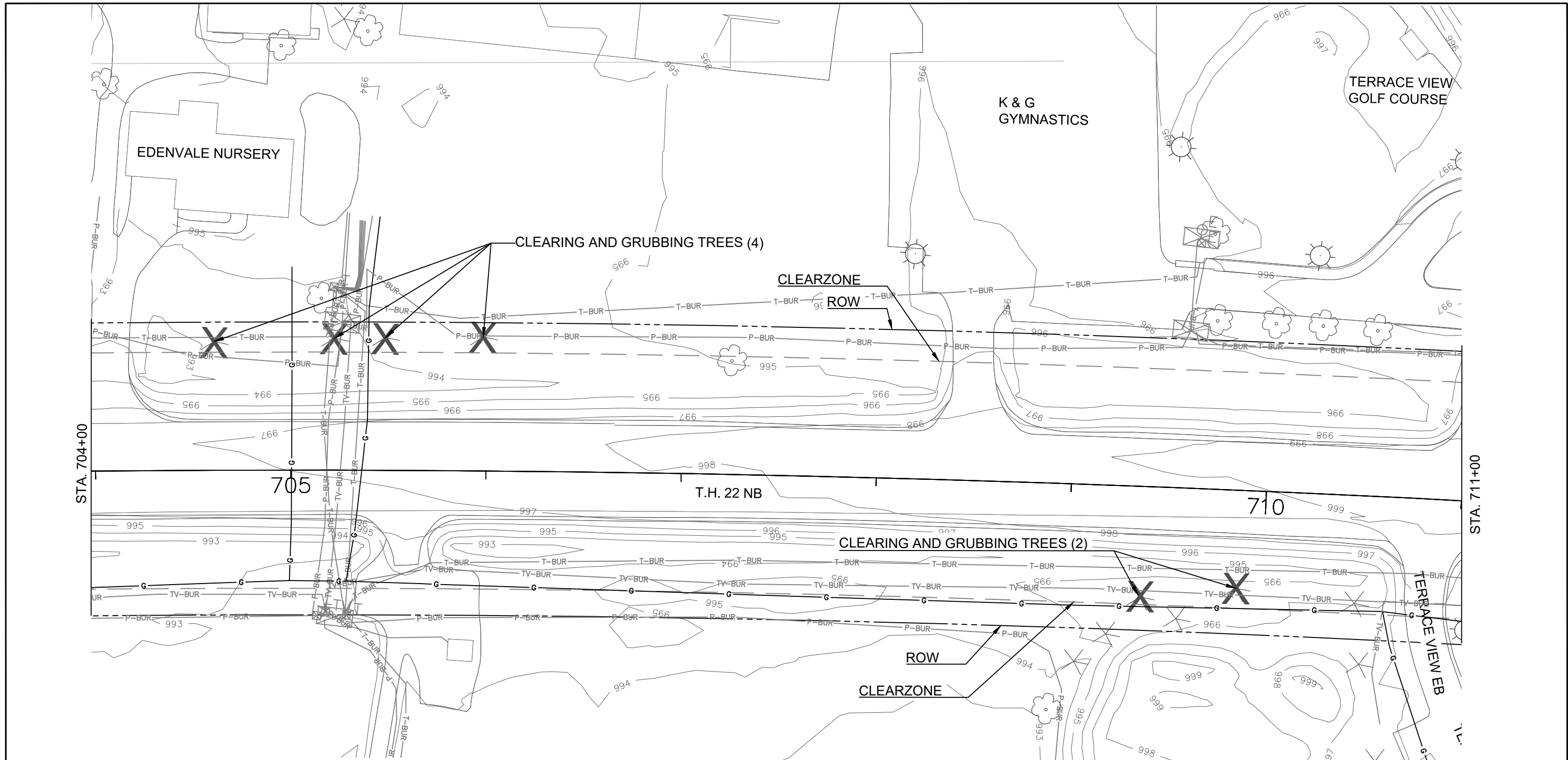
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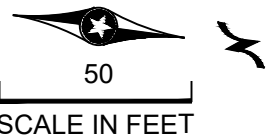
LEGEND			
BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — —
BURIED FIBER OPTIC LINE	— F/O -BUR —	CLEAR ZONE	— — — —
BURIED COMMUNICATION LINE	— T-BUR —	CLEARING & GRUBBING (1 TREES)	X
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.03 ACRES)	⊞
BURIED SANITARY SEWER	— — — —		
DRAINAGE PIPE INPLACE	— — — —		

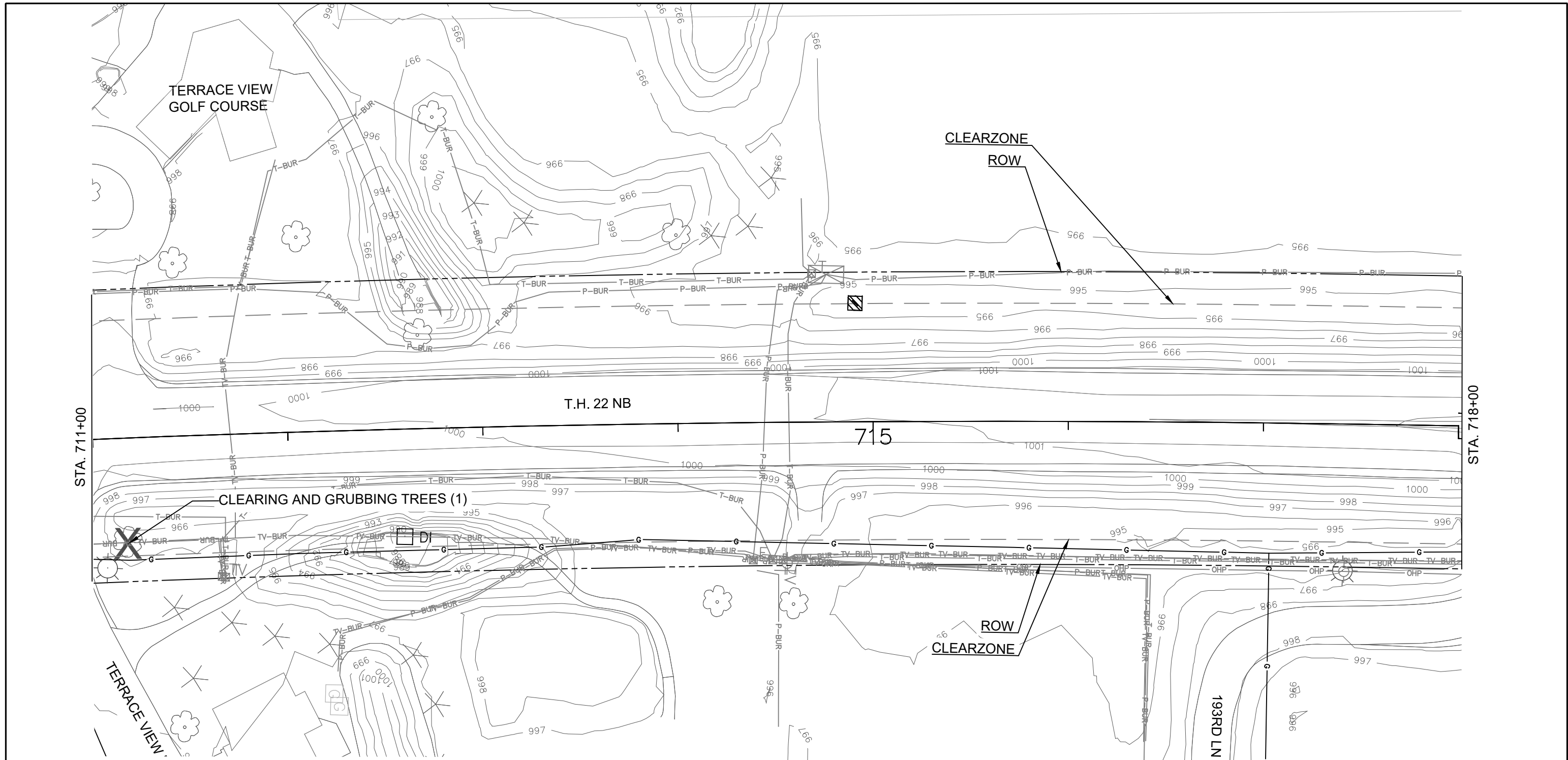




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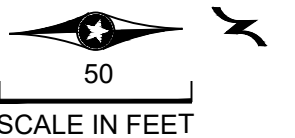
LEGEND			
BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (6 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.0 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

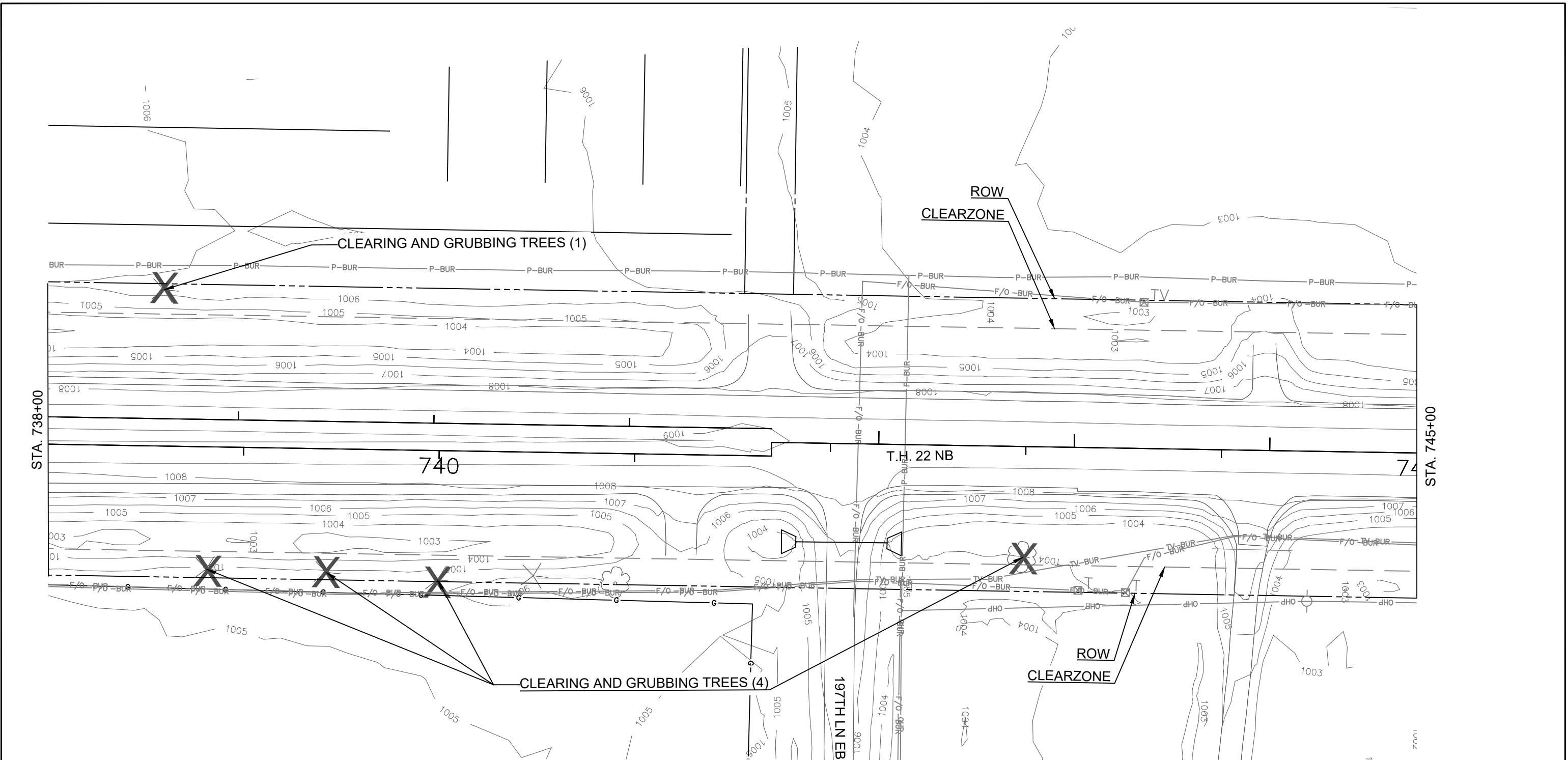




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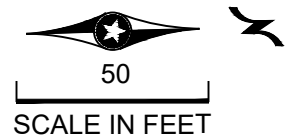
LEGEND			
BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (1 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.0 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

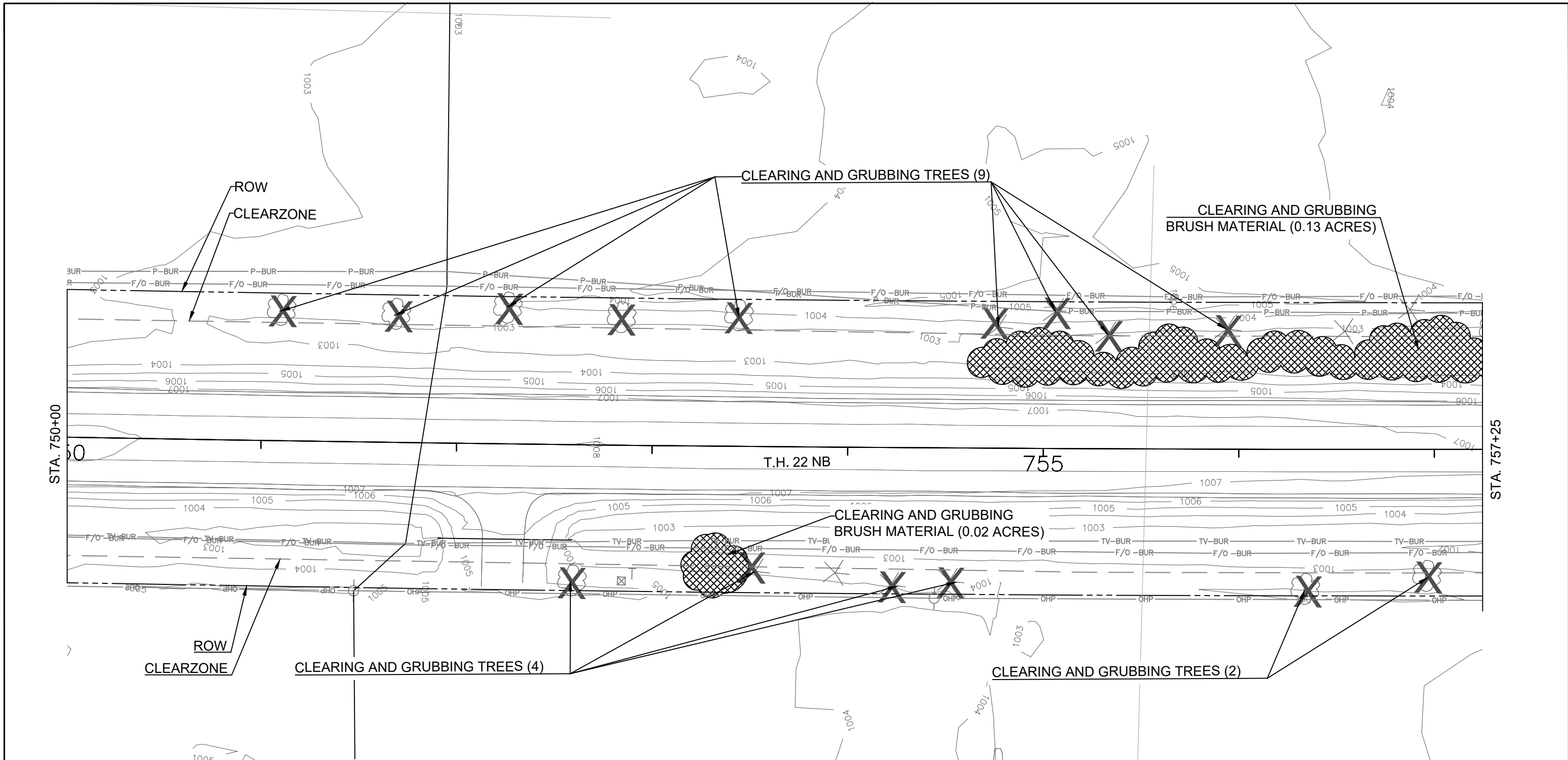




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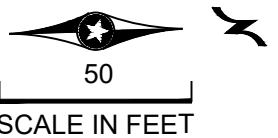
LEGEND			
BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (5 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.0 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

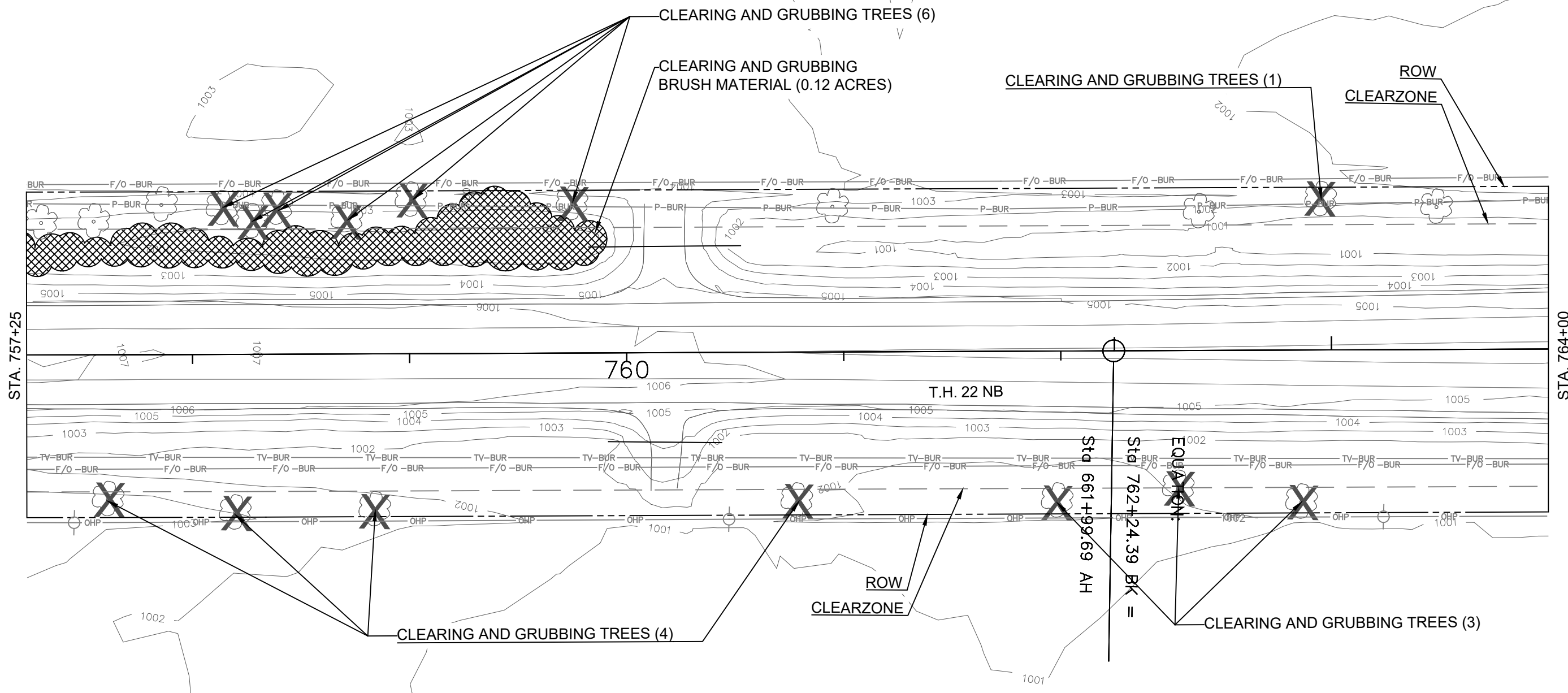




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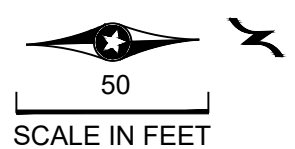
LEGEND			
BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (15 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.15 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



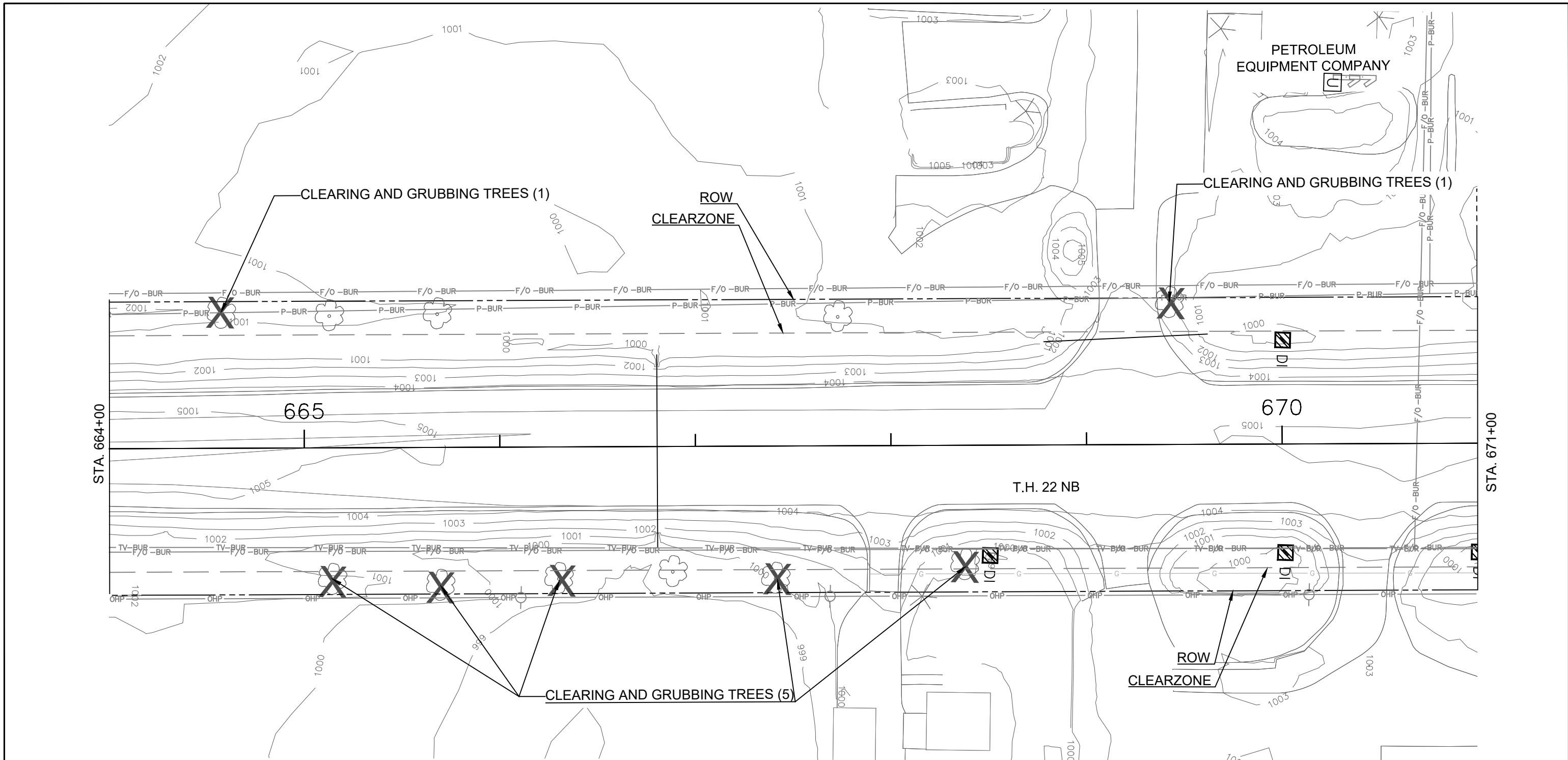


LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (14 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.12 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



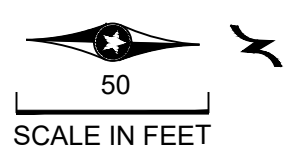
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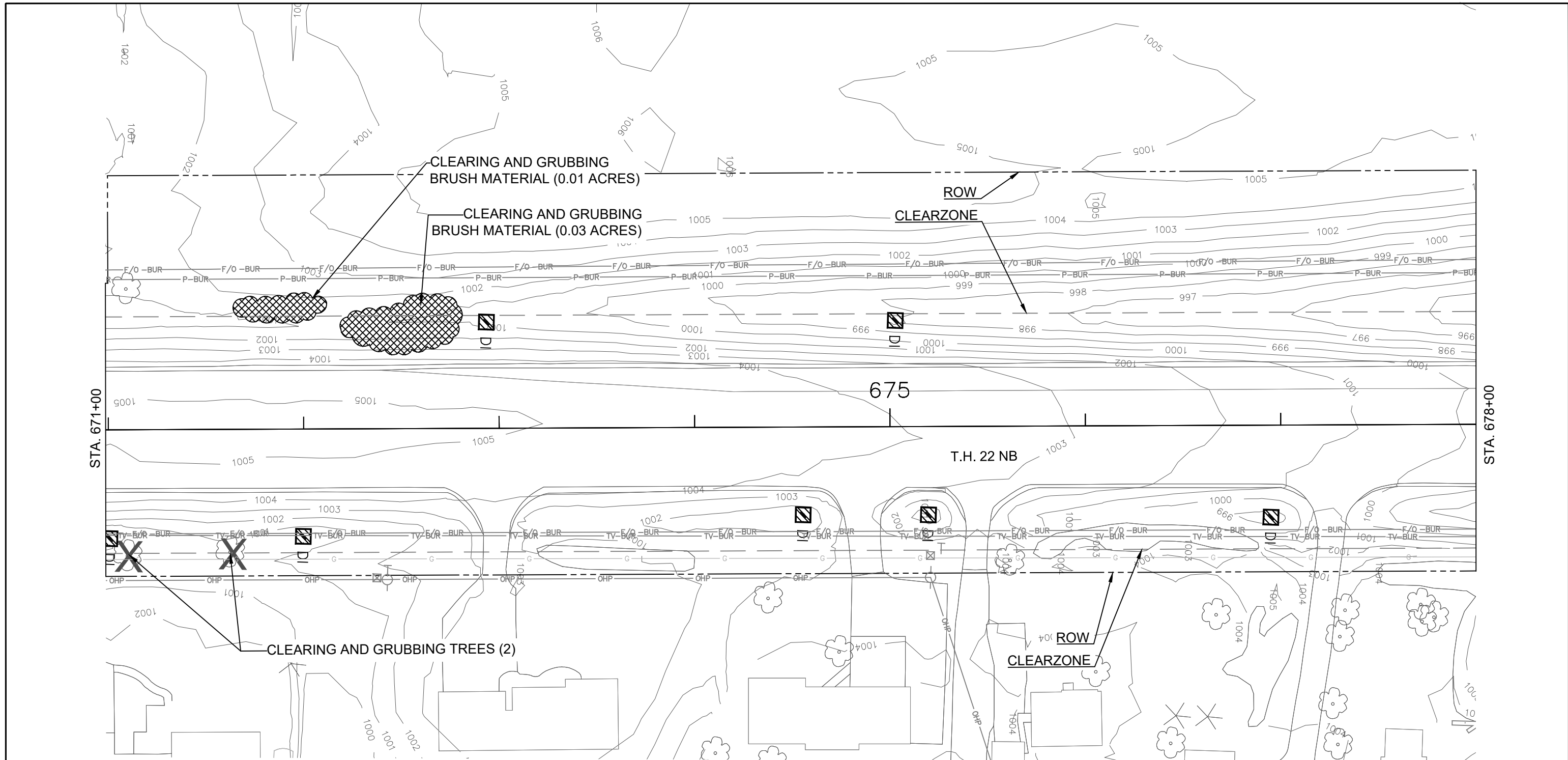


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FILENAME:

LEGEND			
BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (7 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.0 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

JOSH KLEINSHMIDT
CONSTRUCTION & CONCRETE

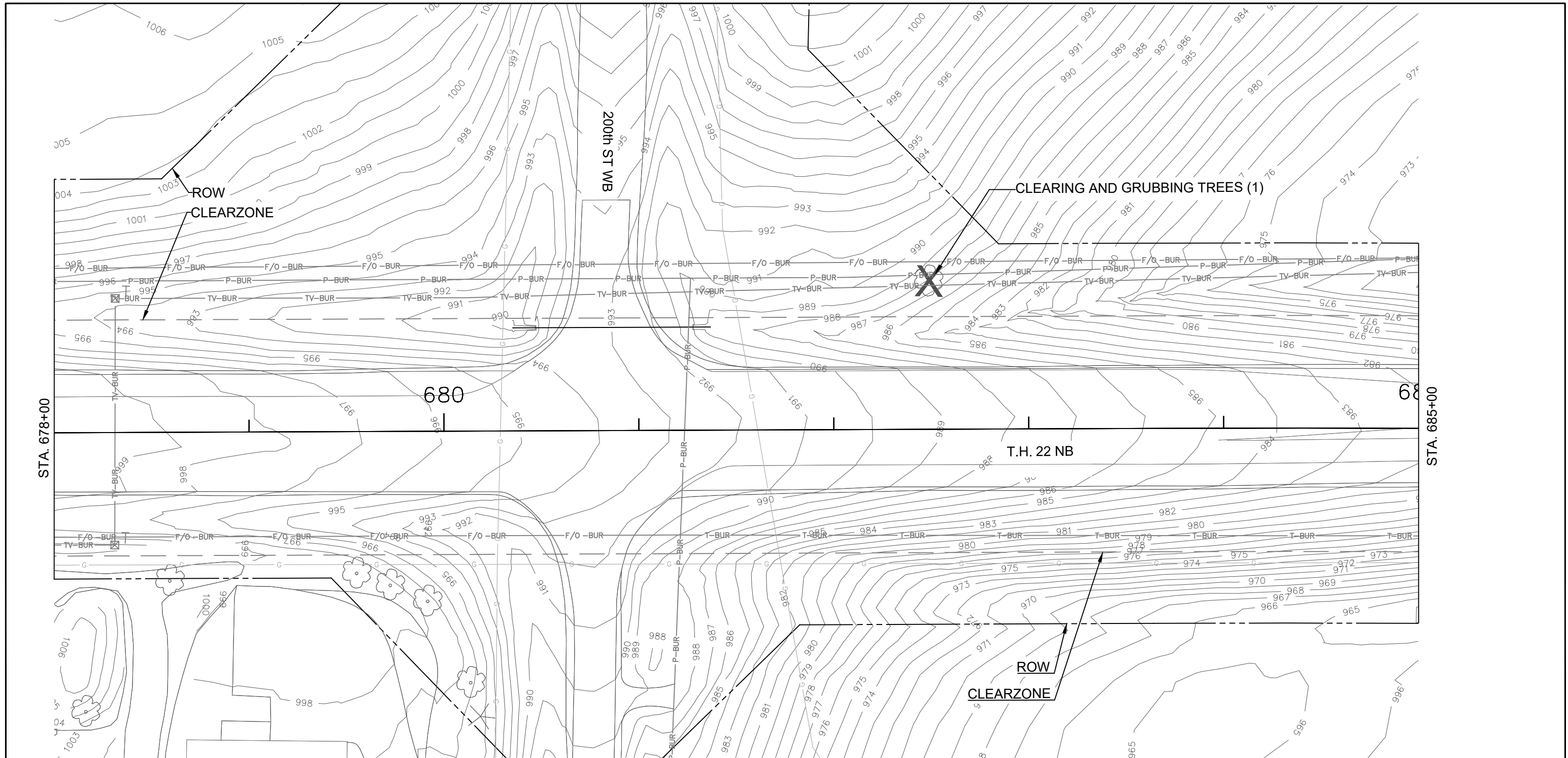




DATE: FILENAME:
TIME:

LEGEND		
BURIED POWER LINE	P-BUR	SANITARY MANHOLE
OVERHEAD POWER LINE	OHP	BURIED WATER LINE
POWER POLE	○	WATER HYDRANT
BURIED GAS LINE	-G-	RIGHT OF WAY
BURIED FIBER OPTIC LINE	F/O-BUR	CLEAR ZONE
BURIED COMMUNICATION LINE	T-BUR	CLEARING & GRUBBING (2 TREES)
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.04 ACRES)
BURIED SANITARY SEWER	-S-BUR	
DRAINAGE PIPE INPLACE	-DIP	



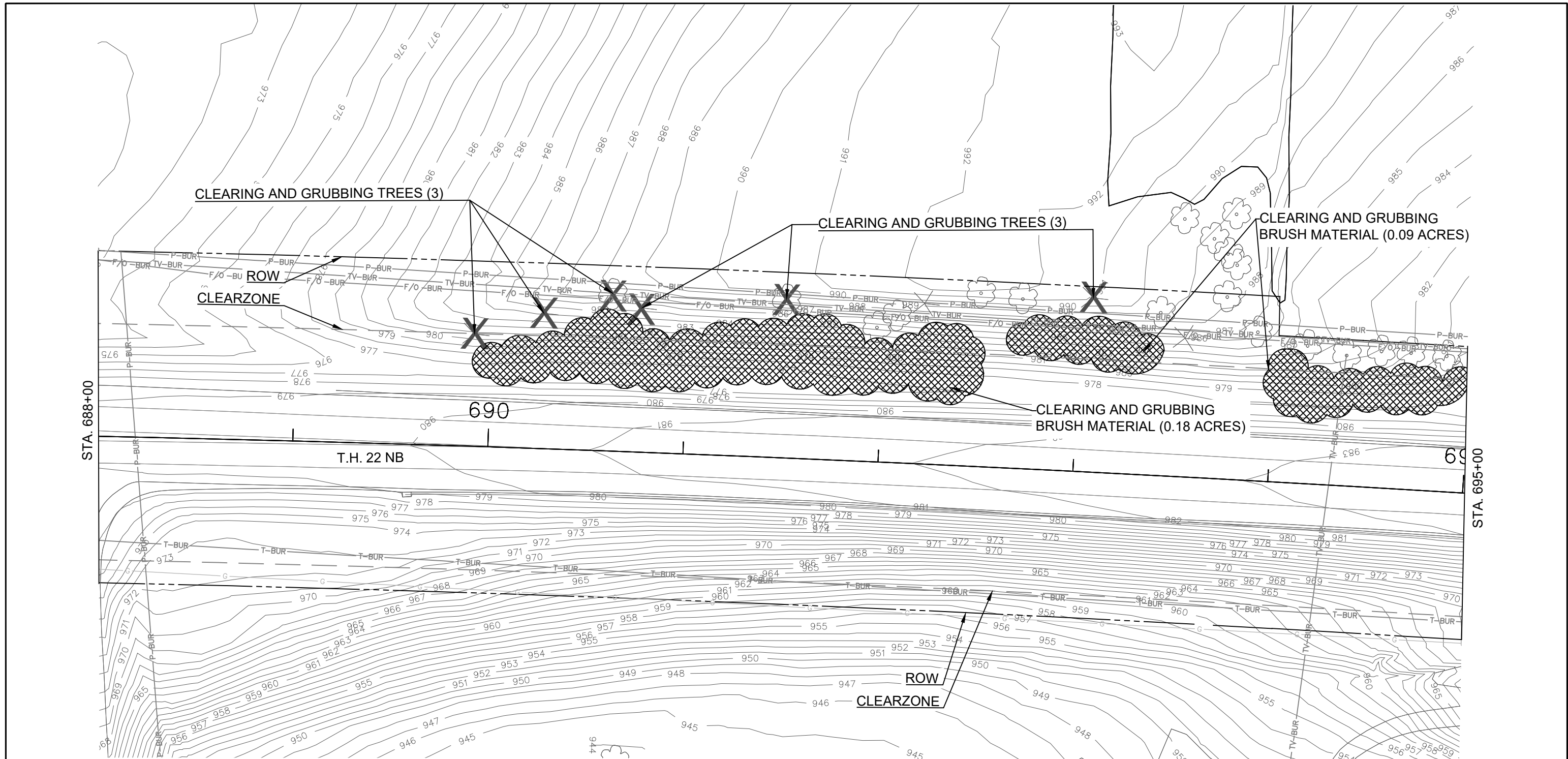


TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (1 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.0 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



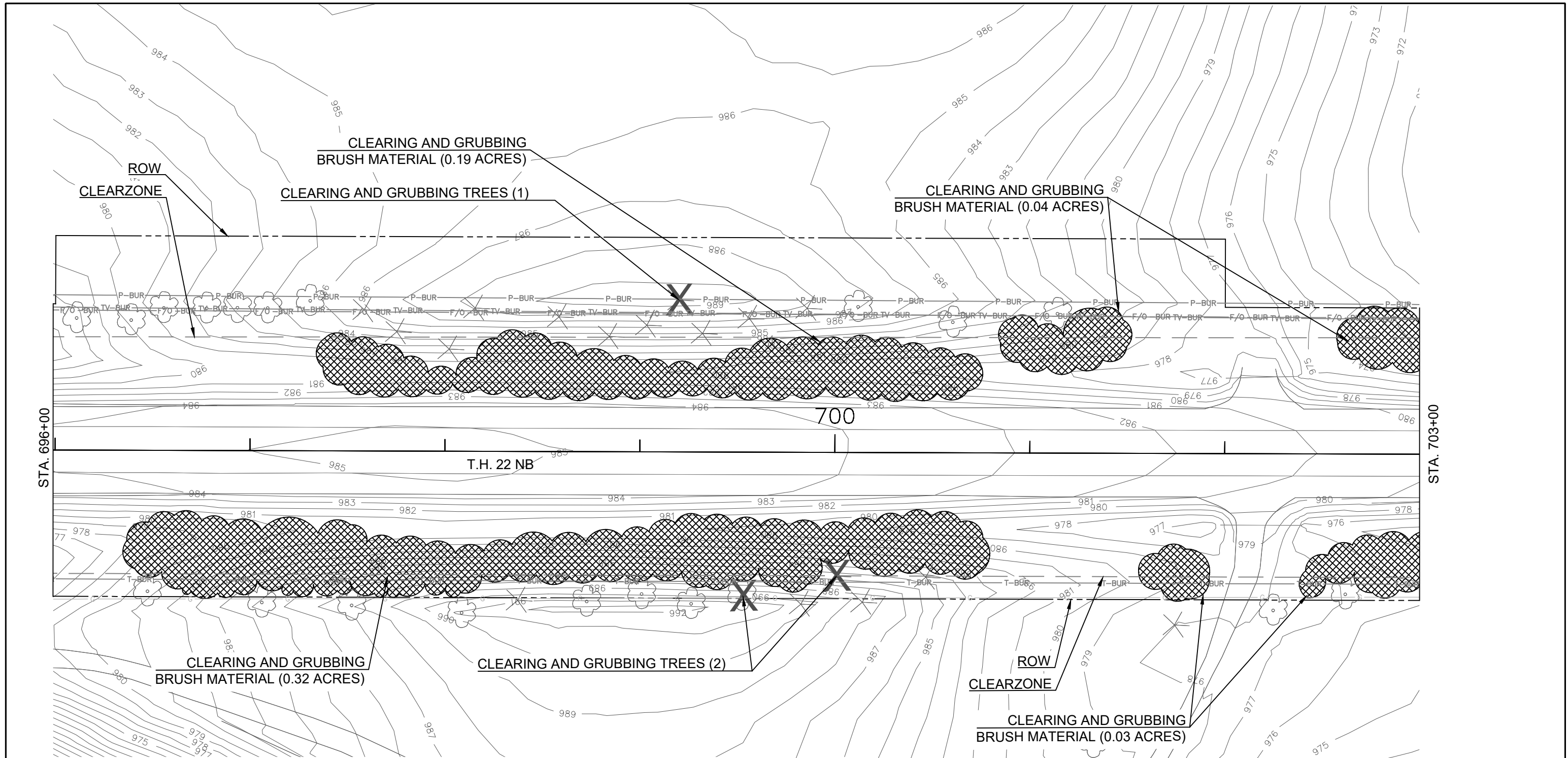


LEGEND

BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	— —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	G	RIGHT OF WAY	- - - -
BURIED FIBER OPTIC LINE	F/O-BUR	CLEAR ZONE	— —
BURIED COMMUNICATION LINE	T-BUR	CLEARING & GRUBBING (6 TREES)	X
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.27 ACRES)	⊠
BURIED SANITARY SEWER	— —		
DRAINAGE PIPE INPLACE	— —		



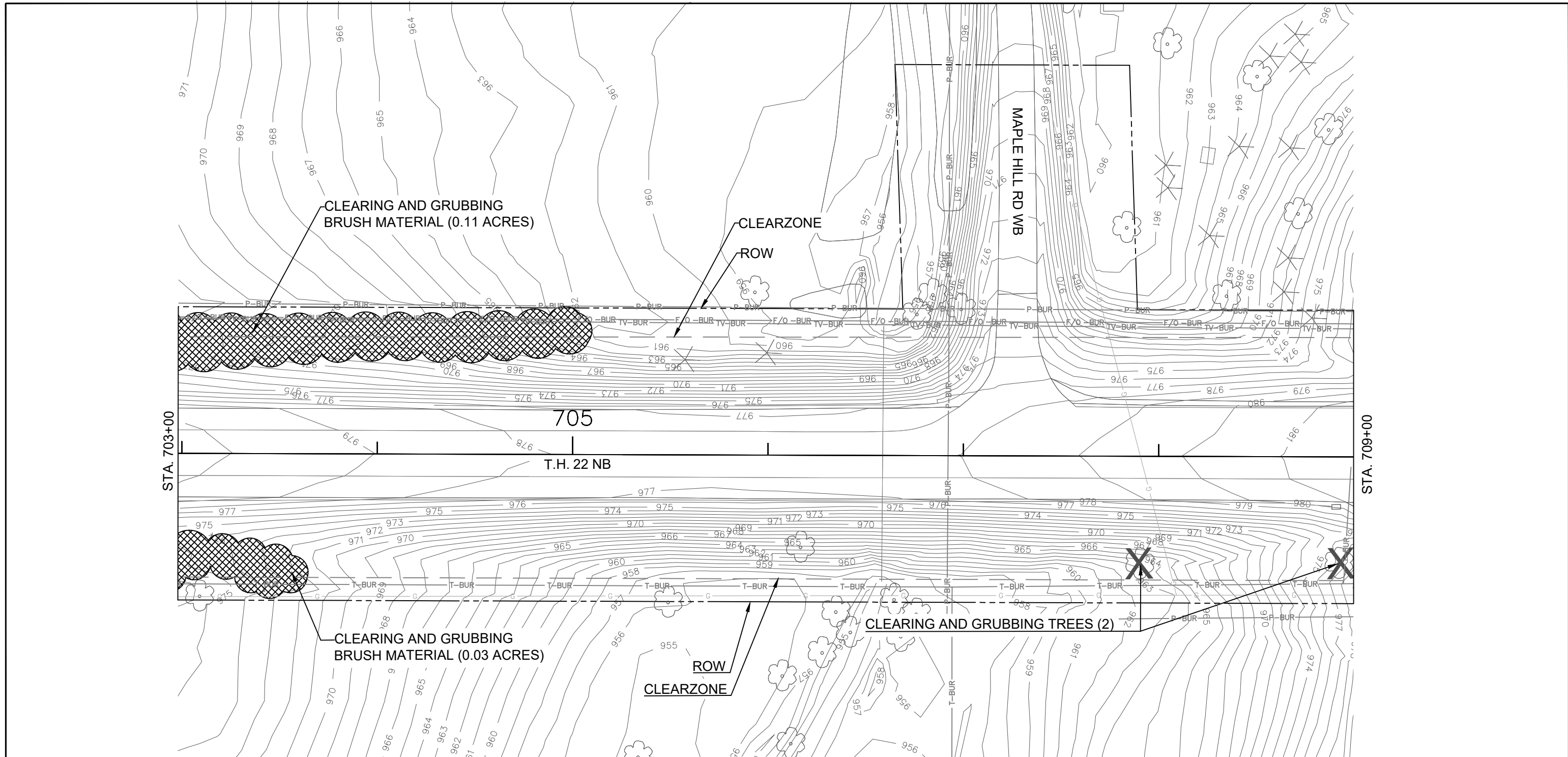
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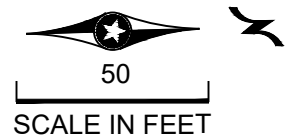
LEGEND			
BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	—
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	G	RIGHT OF WAY	---
BURIED FIBER OPTIC LINE	F/O-BUR	CLEAR ZONE	---
BURIED COMMUNICATION LINE	T-BUR	CLEARING & GRUBBING (3 TREES)	X
COMMUNICATION PEDESTAL	⊠	CLEARING & GRUBBING (0.58 ACRES)	⊞
BURIED SANITARY SEWER	---		
DRAINAGE PIPE INPLACE	---		

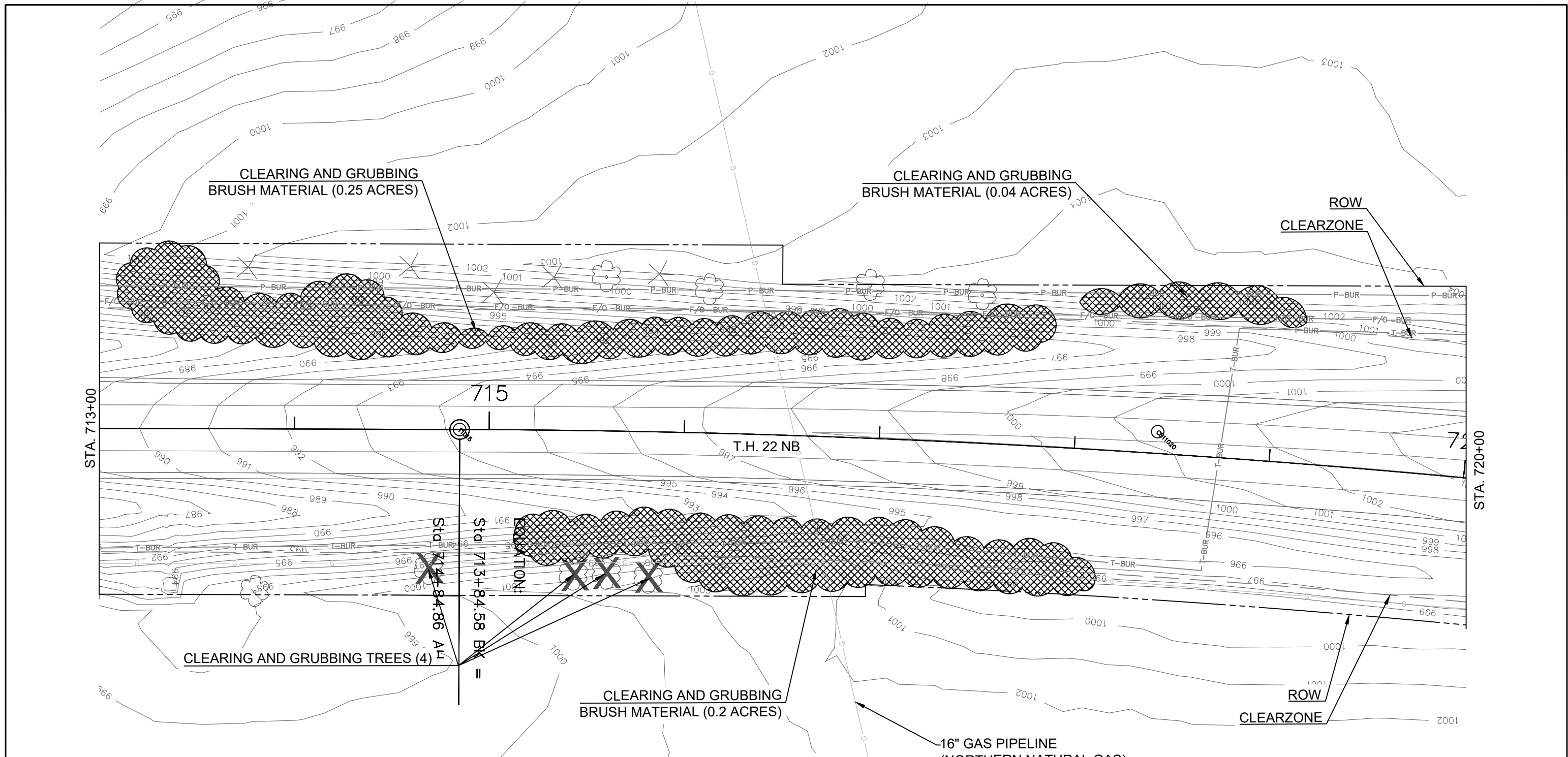




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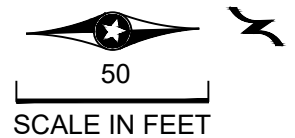
LEGEND	
BURIED POWER LINE	P-BUR
OVERHEAD POWER LINE	OHP
POWER POLE	○
BURIED GAS LINE	G
BURIED FIBER OPTIC LINE	F/O-BUR
BURIED COMMUNICATION LINE	T-BUR
COMMUNICATION PEDESTAL	⊠
BURIED SANITARY SEWER	---
DRAINAGE PIPE INPLACE	---
SANITARY MANHOLE	OM
BURIED WATER LINE	---
WATER HYDRANT	⊞
RIGHT OF WAY	---
CLEAR ZONE	---
CLEARING & GRUBBING (2 TREES)	X
CLEARING & GRUBBING (0.14 ACRES)	⊞

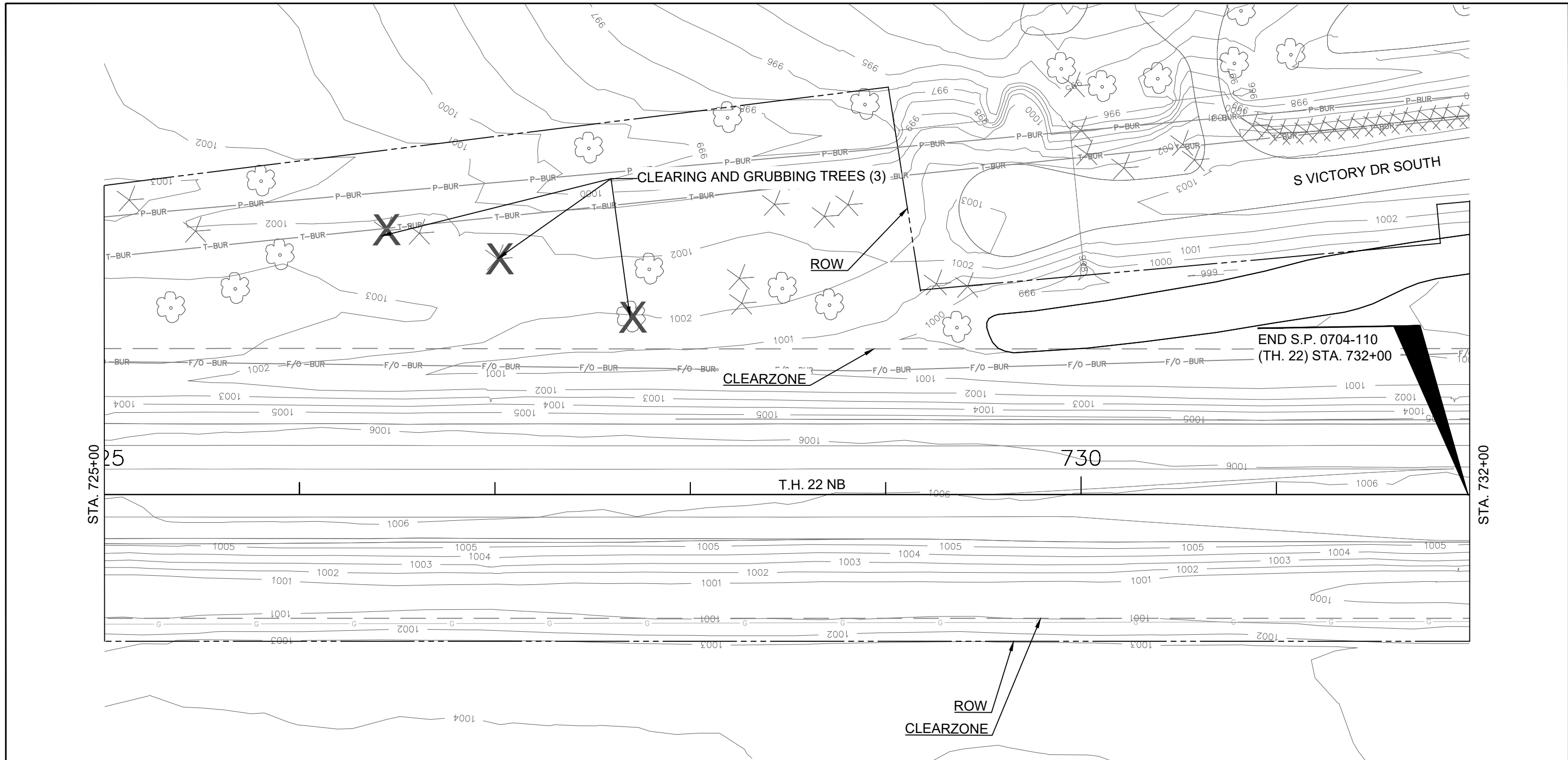




TIME:
DATE:
FILENAME:

LEGEND			
BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (4 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.49 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

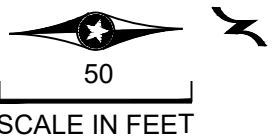




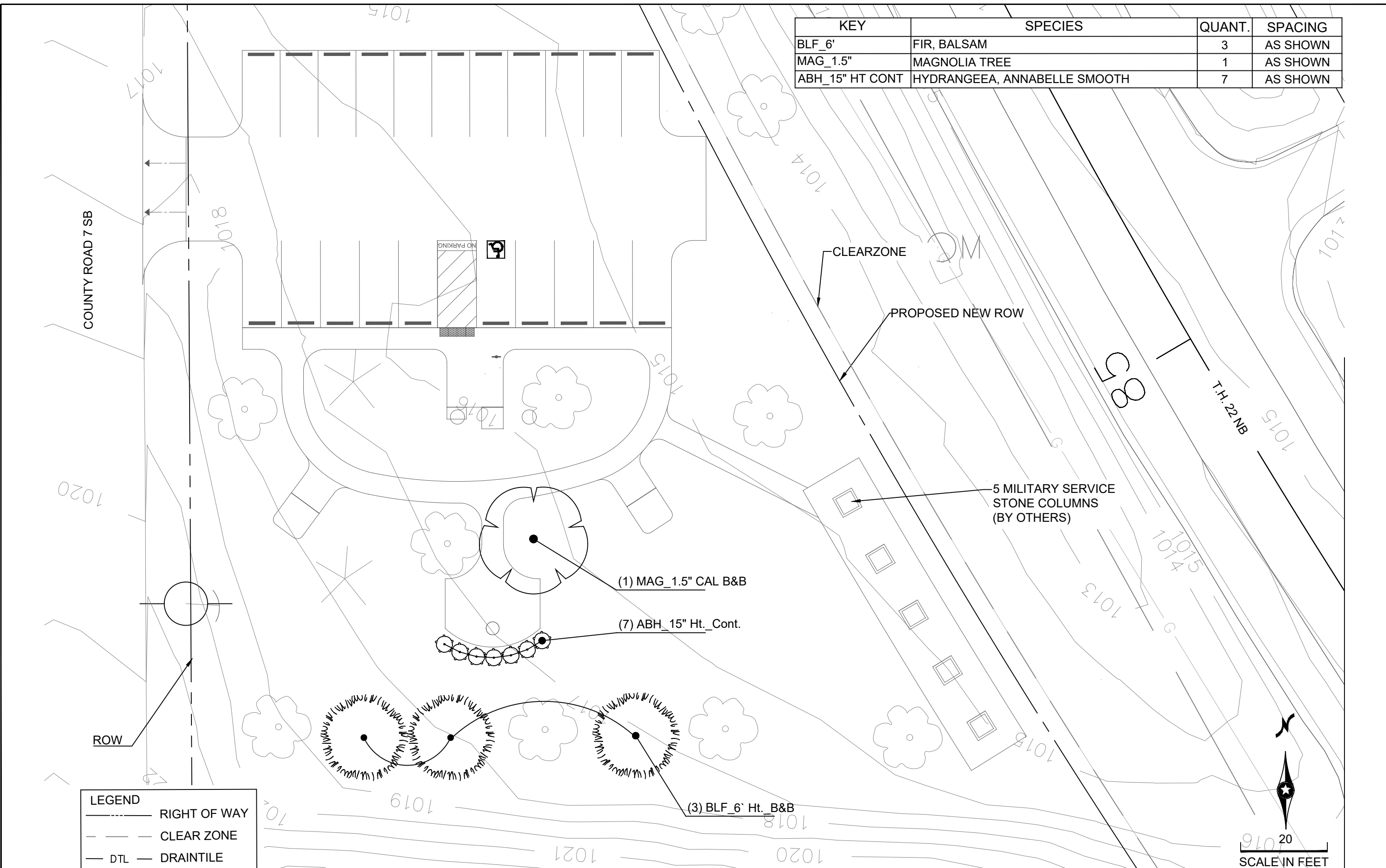
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LEGEND			
BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CLEAR ZONE	
BURIED COMMUNICATION LINE		CLEARING & GRUBBING (3 TREES)	
COMMUNICATION PEDESTAL		CLEARING & GRUBBING (0.0 ACRES)	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

ROW
CLEARZONE





KEY	SPECIES	QUANT.	SPACING
BLF_6'	FIR, BALSAM	3	AS SHOWN
MAG_1.5"	MAGNOLIA TREE	1	AS SHOWN
ABH_15" HT CONT	HYDRANGEEA, ANNABELLE SMOOTH	7	AS SHOWN



LEGEND	
	RIGHT OF WAY
	CLEAR ZONE
	DTL — DRAINTILE



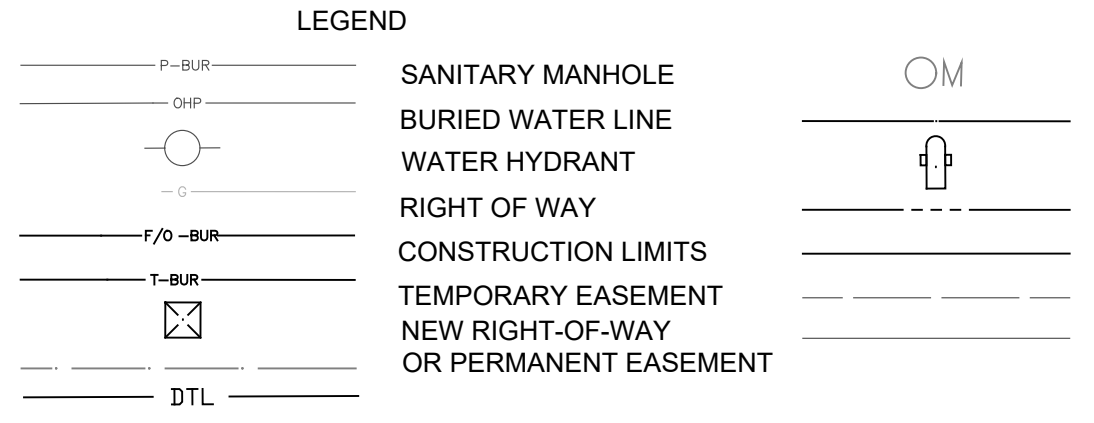
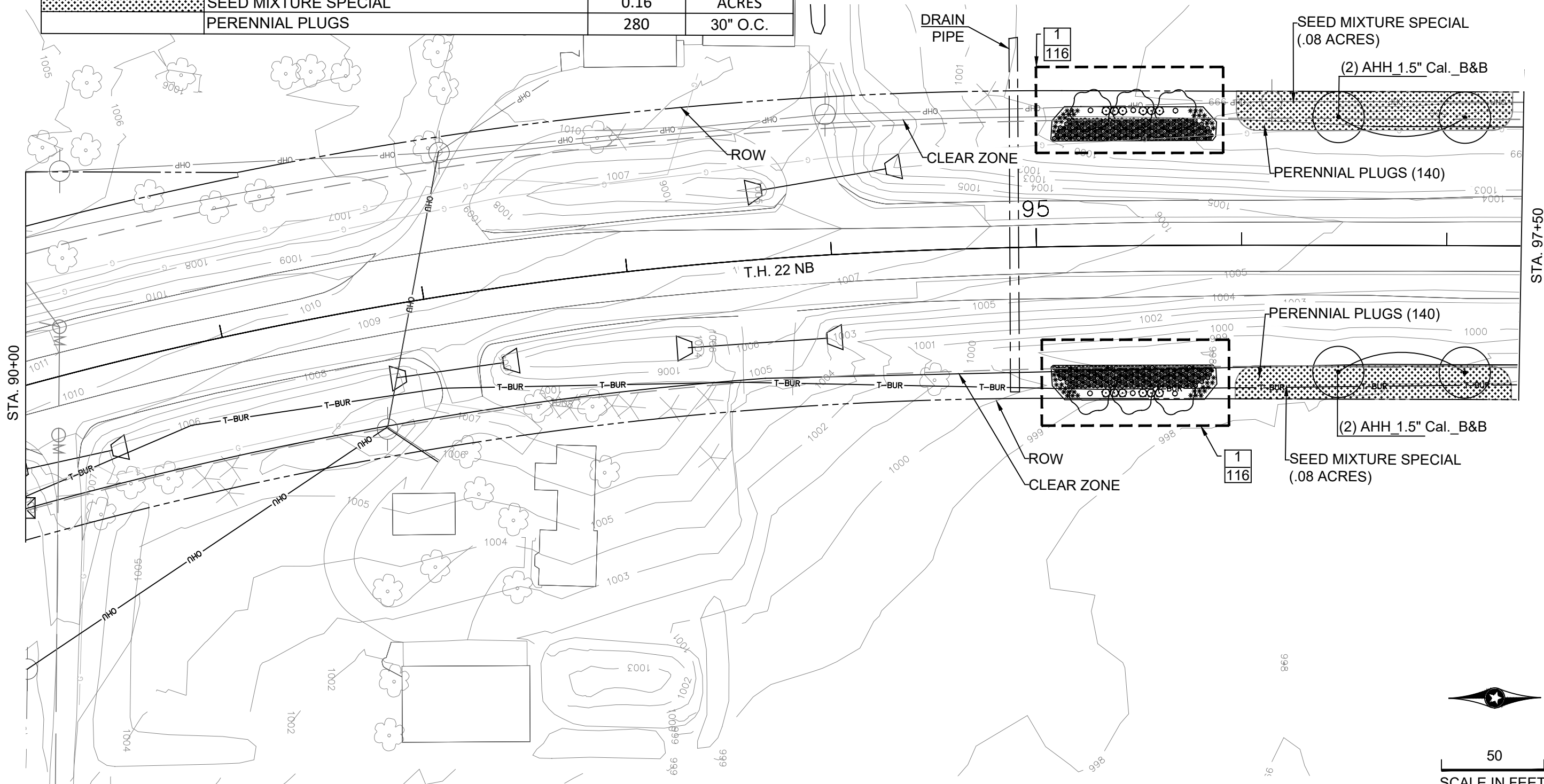
DATE: _____
 FILENAME: _____
 TIME: _____

KEY	SPECIES	QUANT.	SPACING
AHH_1.5"	HOPHORNBEAM, AMERICAN	4	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIEFIRE	6	AS SHOWN
ABH_15" HT CONT	HYDRANGEA, ANNABELLE SMOOTH	12	AS SHOWN
FPPC_4"	CONEFLOWER, PURPLE	146	AS SHOWN
FDWC_4"	CONEFLOWER, BABY WHITE SWAN	144	AS SHOWN
FBES_4"	BLACK EYED SUSAN	148	AS SHOWN
GFRG_NO 1	GRASS, FEATHER REED	46	AS SHOWN
	SEED MIXTURE SPECIAL	0.16	ACRES
	PERENNIAL PLUGS	280	30" O.C.

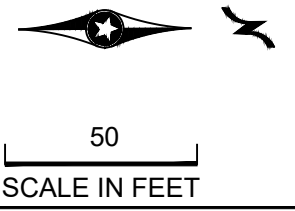
- BURIED POWER LINE
- OVERHEAD POWER LINE
- POWER POLE
- BURIED GAS LINE
- BURIED FIBER OPTIC LINE
- BURIED COMMUNICATION LINE
- COMMUNICATION PEDESTAL
- BURIED SANITARY SEWER
- DRAINAGE PIPE INPLACE

LEGEND

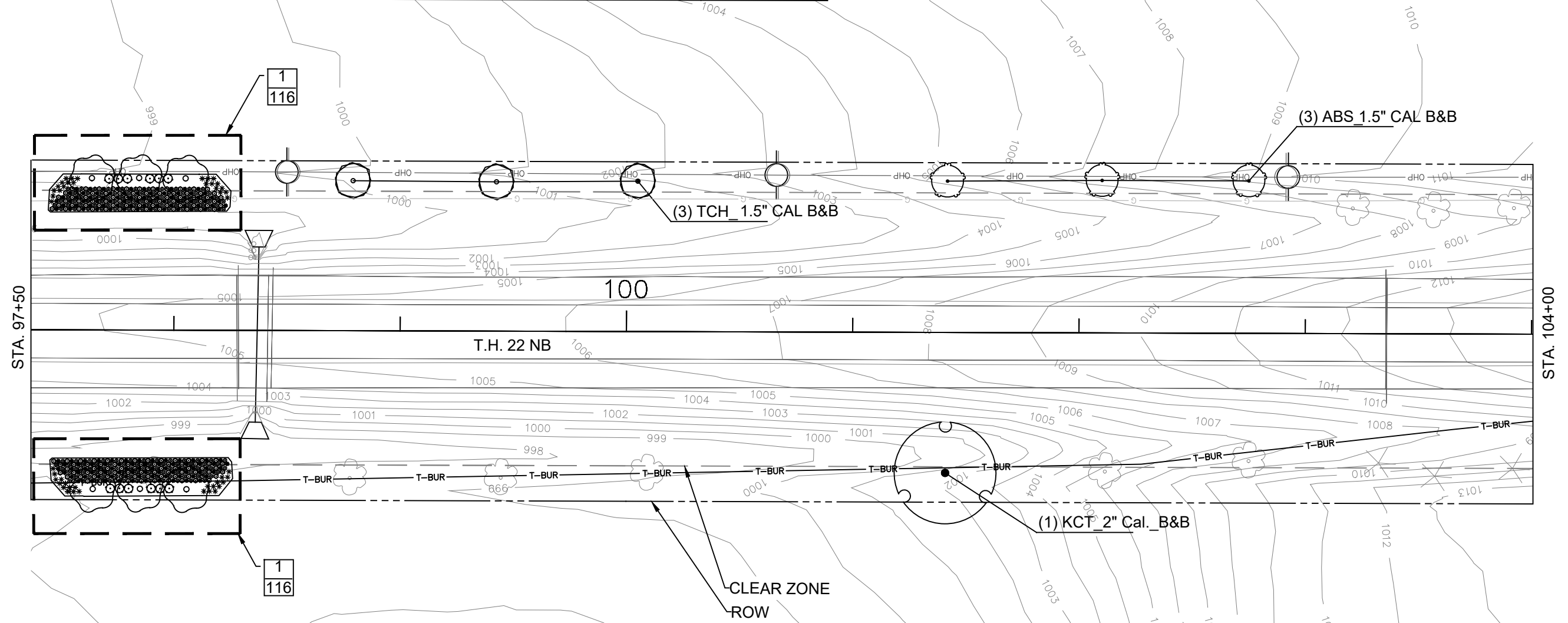
- P-BUR
- OHP
- G
- F/O-BUR
- T-BUR
- DTL
- SANITARY MANHOLE
- BURIED WATER LINE
- WATER HYDRANT
- RIGHT OF WAY
- CONSTRUCTION LIMITS
- TEMPORARY EASEMENT
- NEW RIGHT-OF-WAY
- OR PERMANENT EASEMENT

DATE: _____
 FILENAME: _____
 TIME: _____

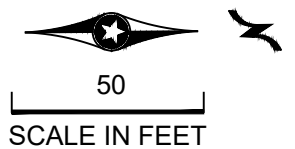


KEY	SPECIES	QUANT.	SPACING
PRC_1.5"	CRABAPPLE, PRAIRIEFIRE	6	AS SHOWN
ABH_15" HT CONT	HYDRANGEA, ANNABELLE SMOOTH	12	AS SHOWN
FPPC_4"	CONEFLOWER, PURPLE	146	AS SHOWN
FDWC_4"	CONEFLOWER, BABY WHITE SWAN	144	AS SHOWN
FBES_4"	BLACK EYED SUSAN	148	AS SHOWN
GFRG_NO 1	GRASS, FEATHER REED	46	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	1	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	3	AS SHOWN
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	3	AS SHOWN



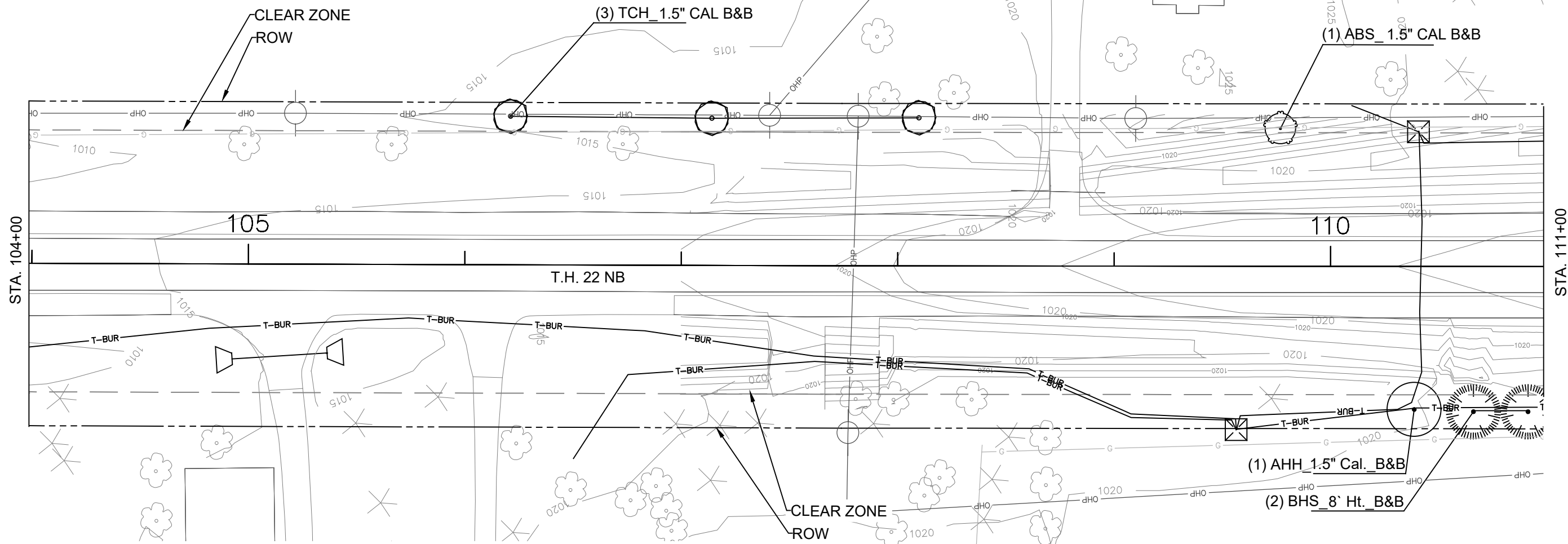
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



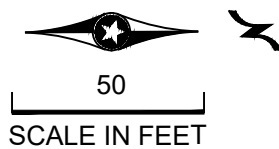
TIME:
DATE:
FILENAME:

KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	1	AS SHOWN
AHH_1.5"	HOPHORNBEAM, AMERICAN	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	2	AS SHOWN
TCH_1.5"	THORNLESS, HAWTHORN	3	AS SHOWN



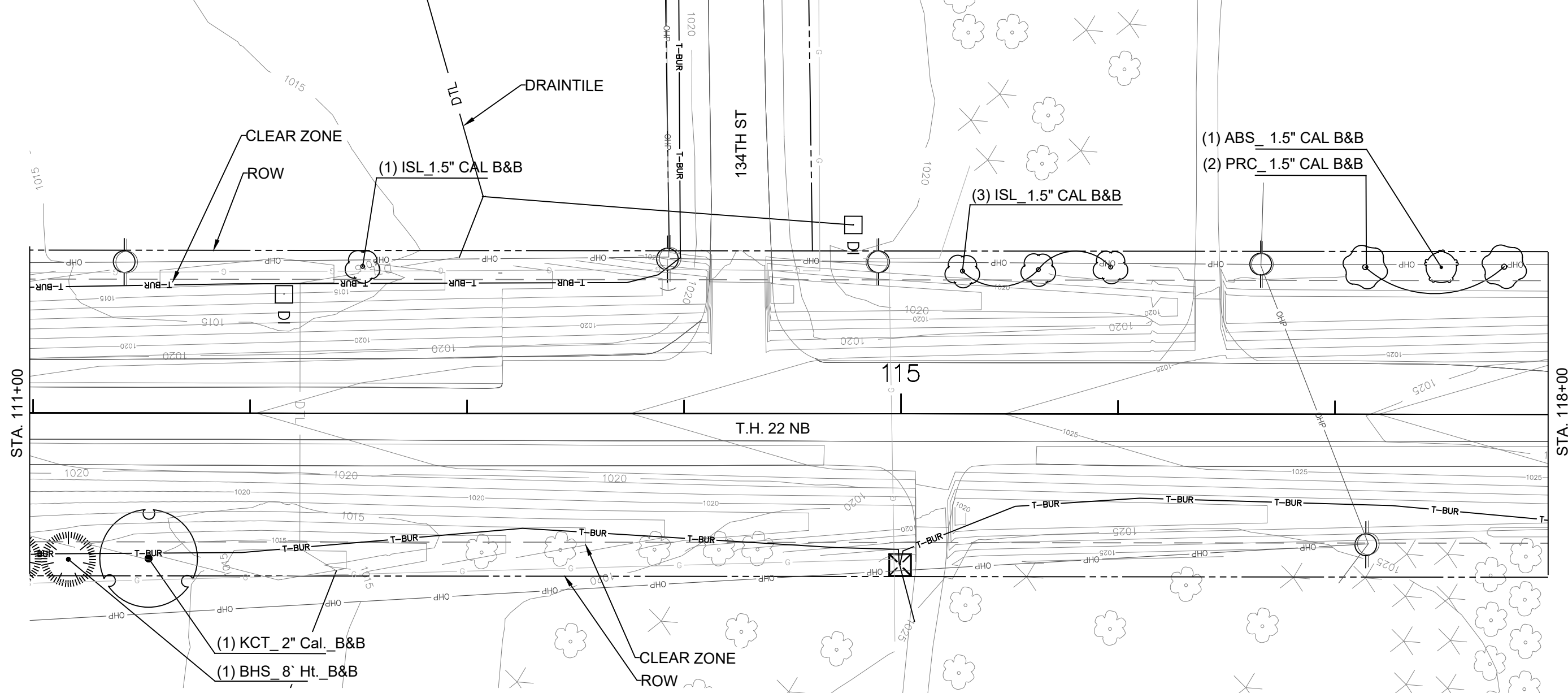
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



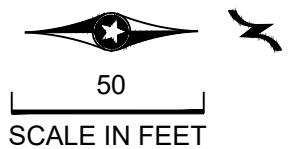
DATE: _____
FILENAME: _____
TIME: _____

KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	1	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE	4	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	1	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	2	AS SHOWN



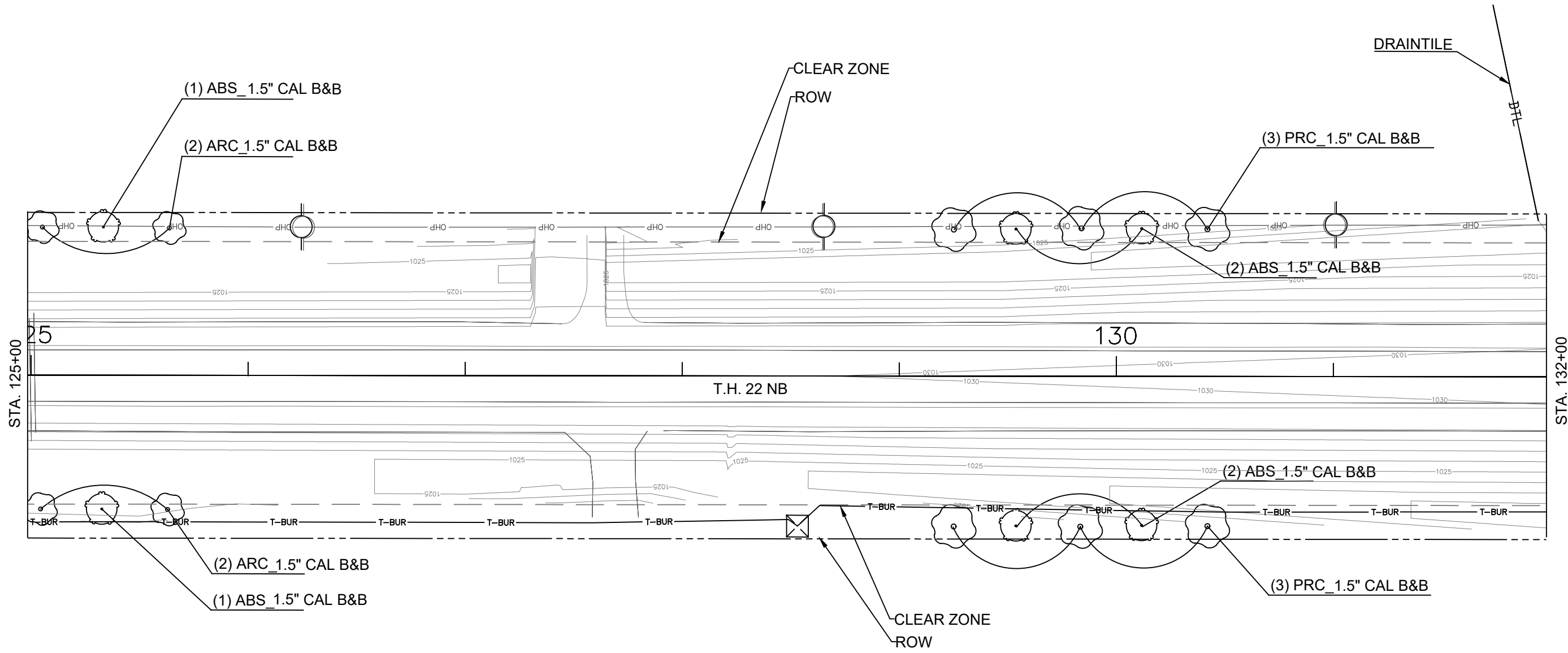
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



DATE: _____
 TIME: _____
 FILENAME: _____

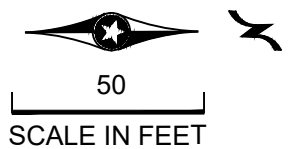
KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	6	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDAK	4	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIEFIRE	6	AS SHOWN



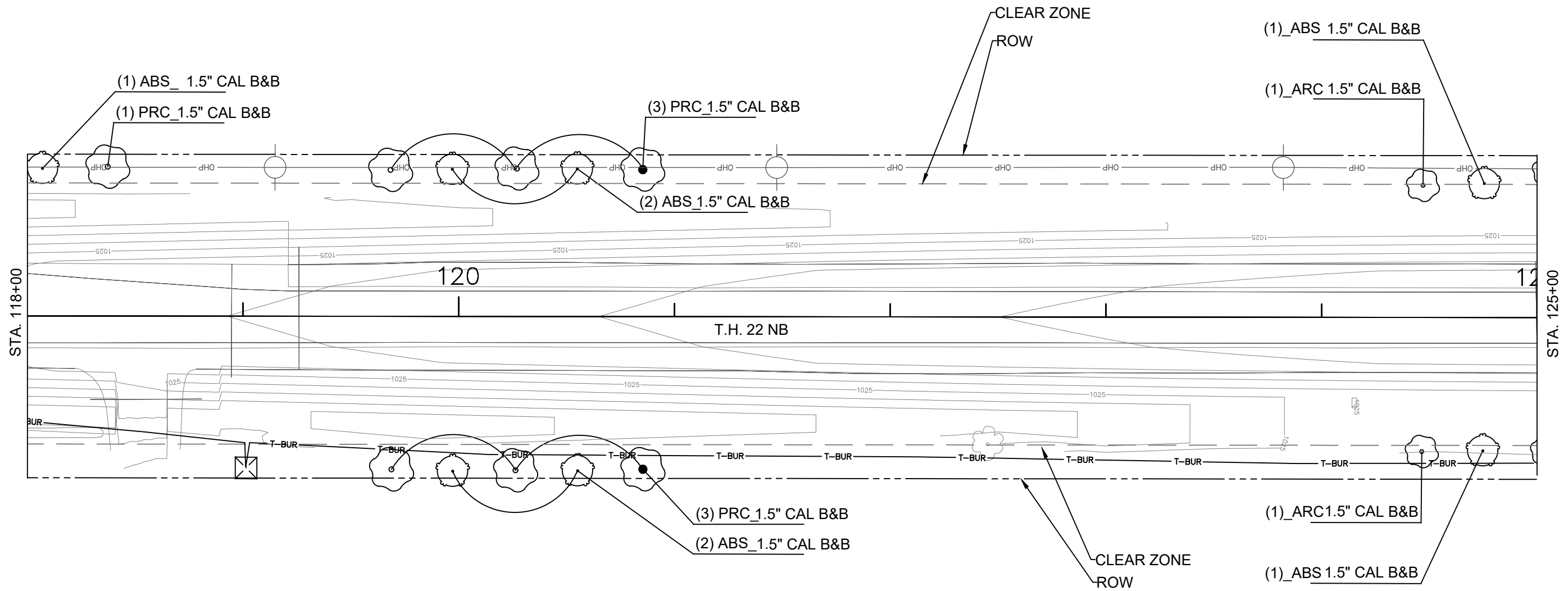
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊠	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		



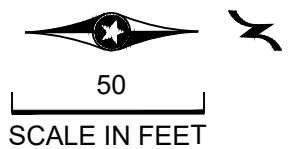
KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	HOPHORNBEAM, AMERICAN	7	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDAK	2	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	7	AS SHOWN



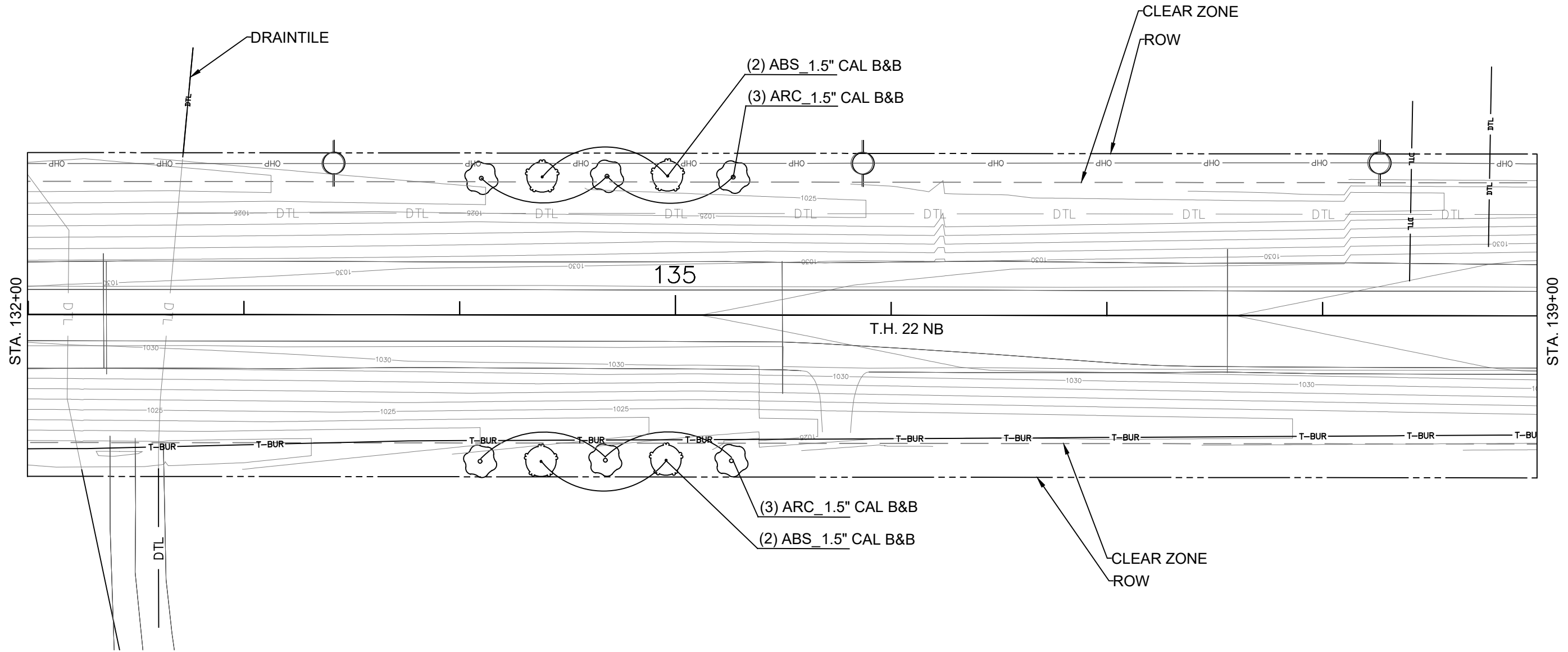
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



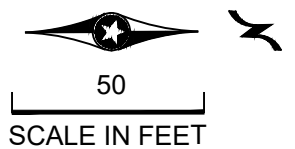
KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	4	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDAK	6	AS SHOWN

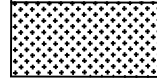


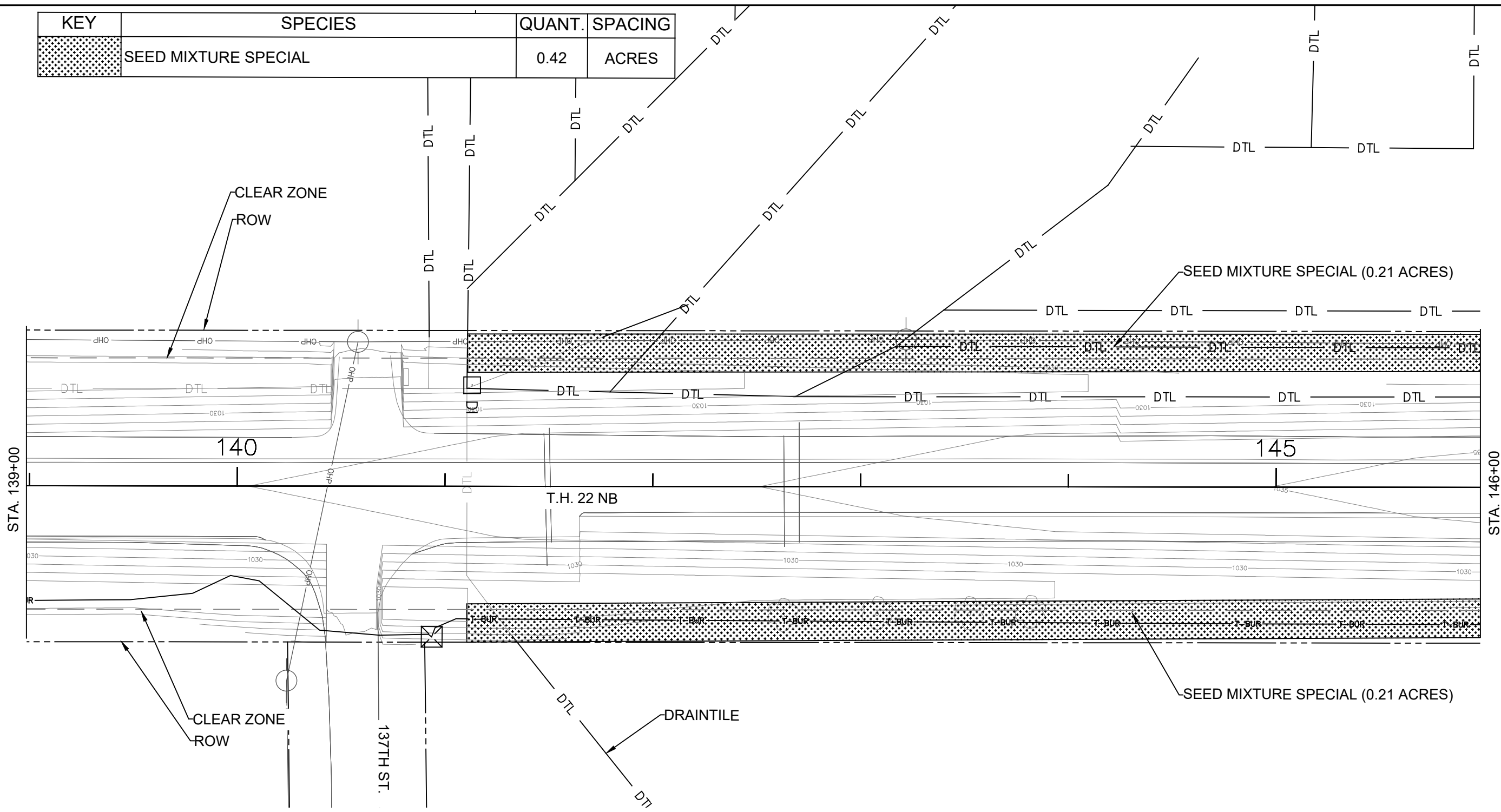
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DATE:
FILENAME:

LEGEND

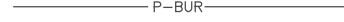

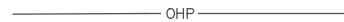
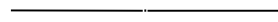




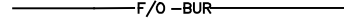





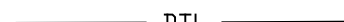

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		

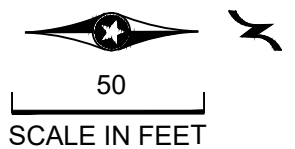


KEY	SPECIES	QUANT.	SPACING
	SEED MIXTURE SPECIAL	0.42	ACRES



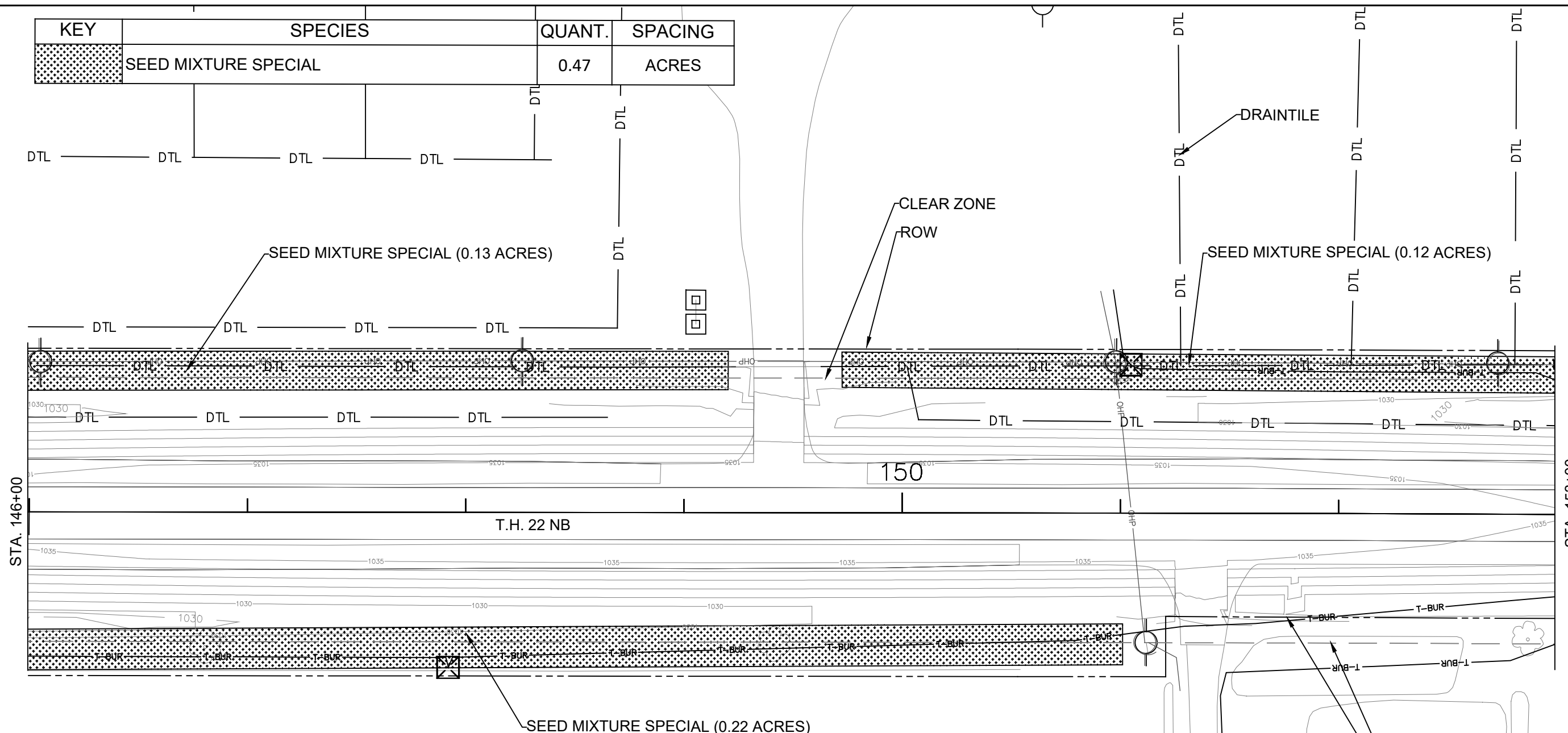
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



DATE: _____
 FILENAME: _____
 TIME: _____

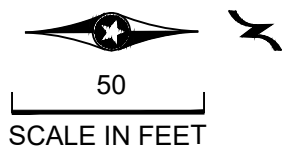
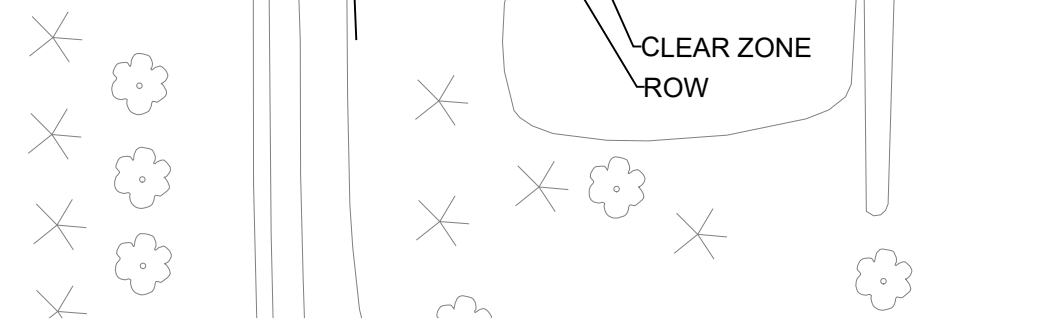
KEY	SPECIES	QUANT.	SPACING
	SEED MIXTURE SPECIAL	0.47	ACRES



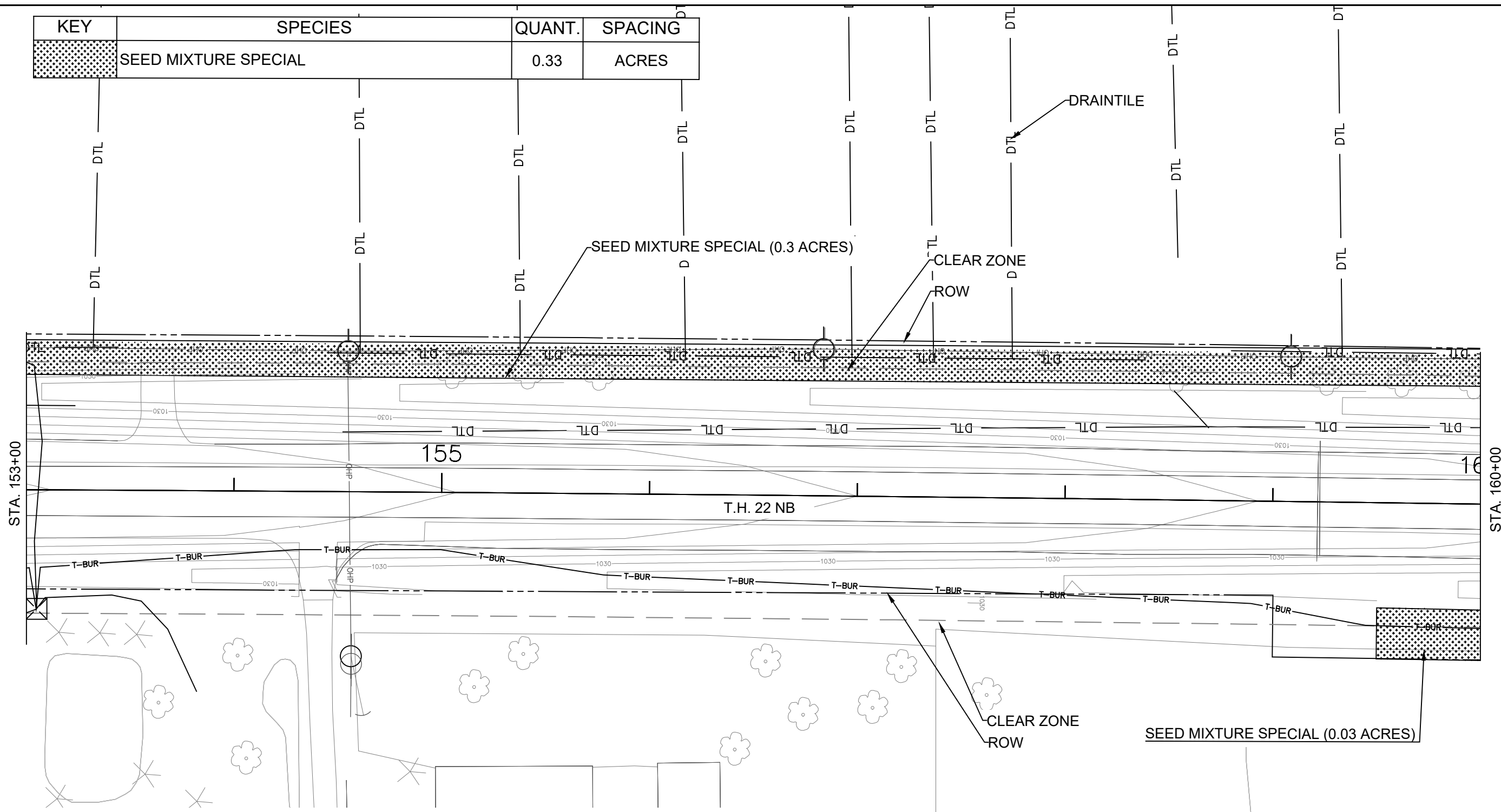
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			

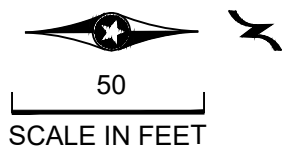


KEY	SPECIES	QUANT.	SPACING
	SEED MIXTURE SPECIAL	0.33	ACRES



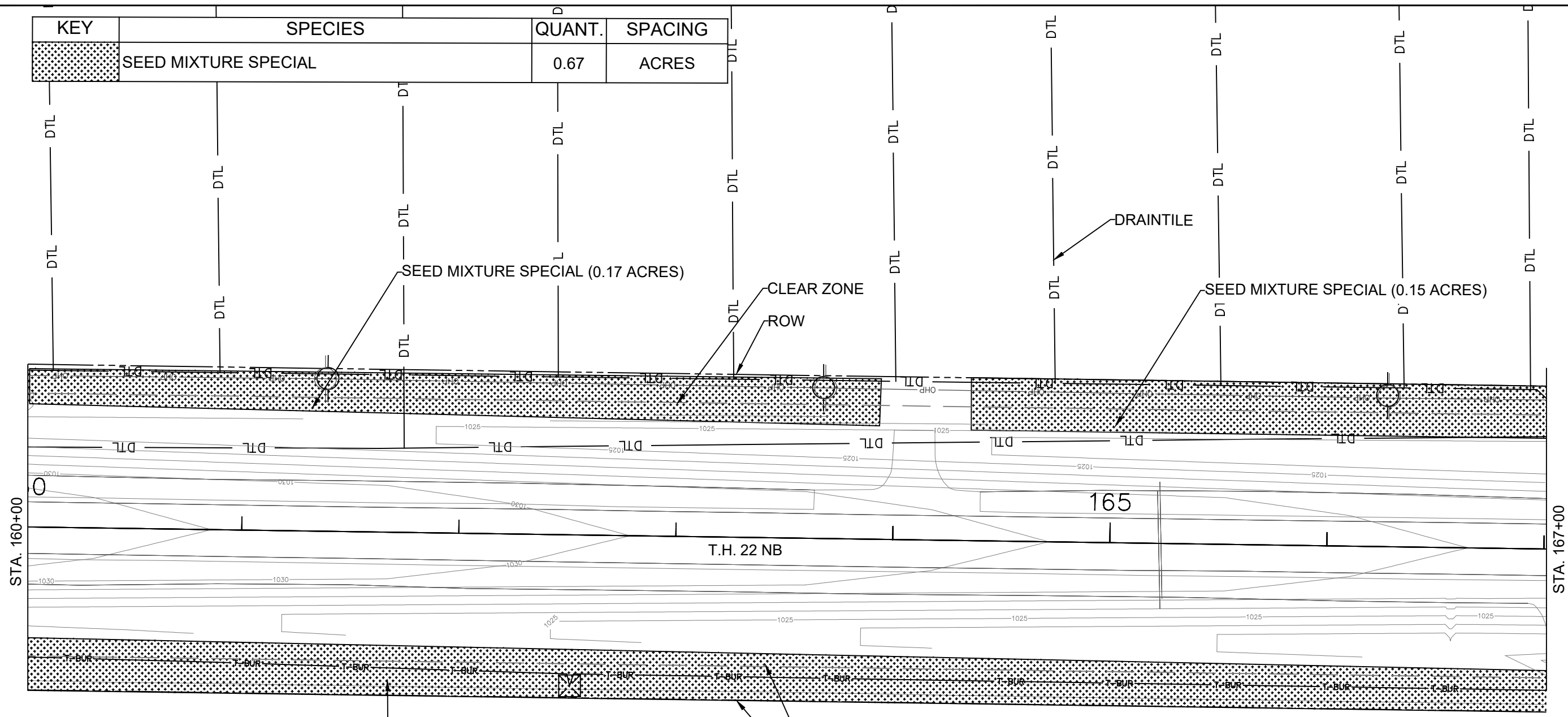
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



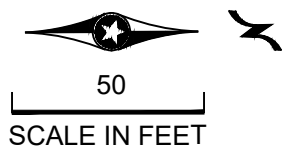
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 FILENAME: _____
 TIME: _____

KEY	SPECIES	QUANT.	SPACING
	SEED MIXTURE SPECIAL	0.67	ACRES



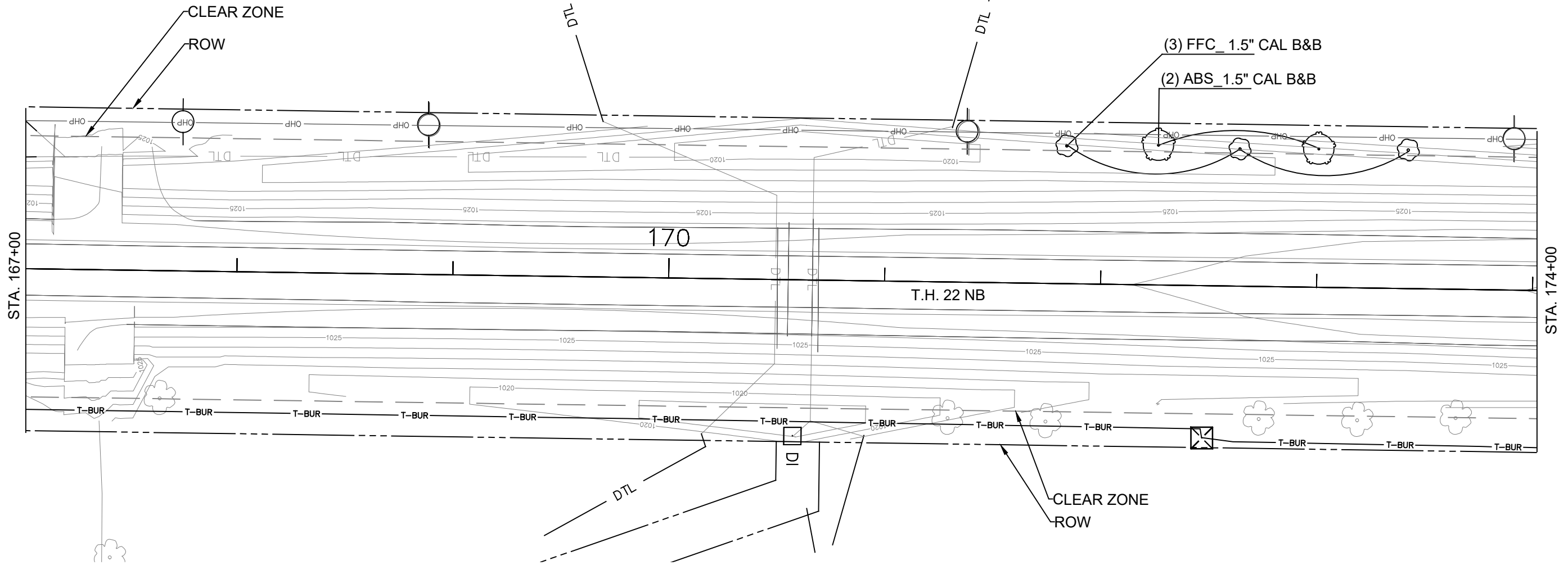
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



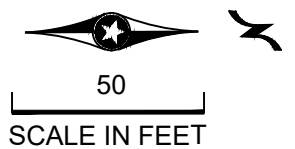
DATE: _____
 FILENAME: _____
 TIME: _____

KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	2	AS SHOWN
FFC_1.5"	CRABAPPLE, FIREBIRD	3	AS SHOWN



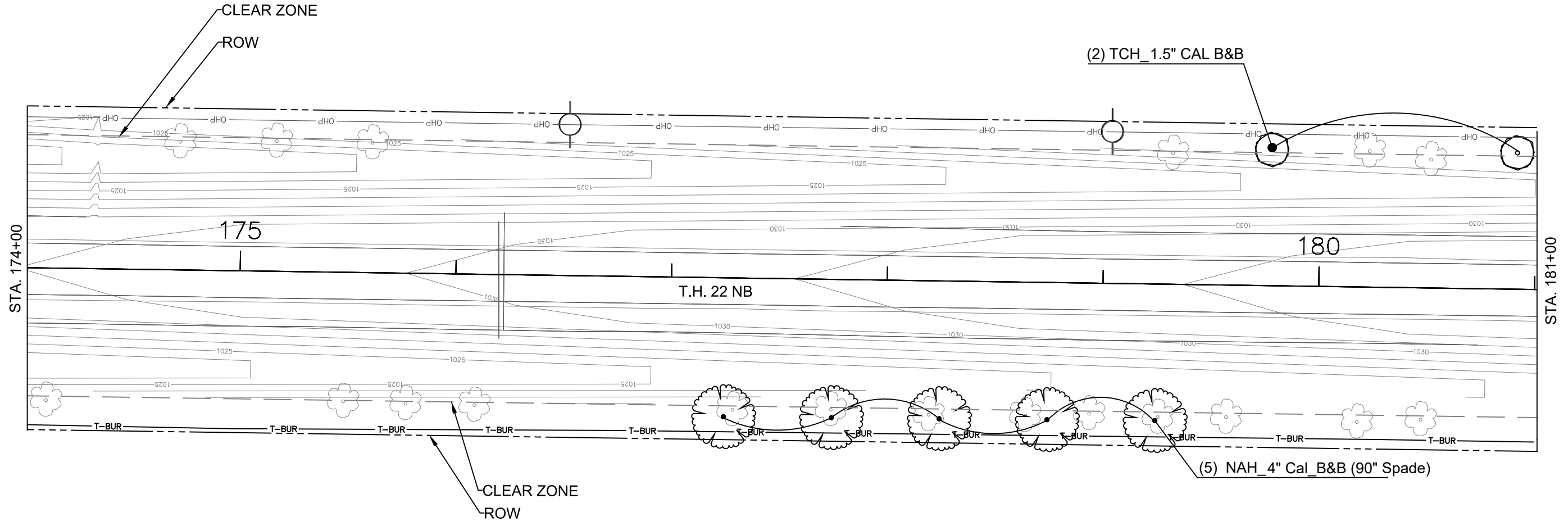
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



TIME:
DATE:
FILENAME:

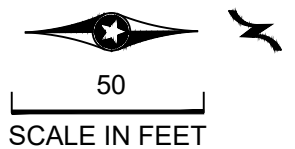
KEY	SPECIES	QUANT.	SPACING
TCH_1.5"	HAWTHORN, THORNLESS	2	AS SHOWN
NAH_4" (90" SPADE)	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	5	AS SHOWN



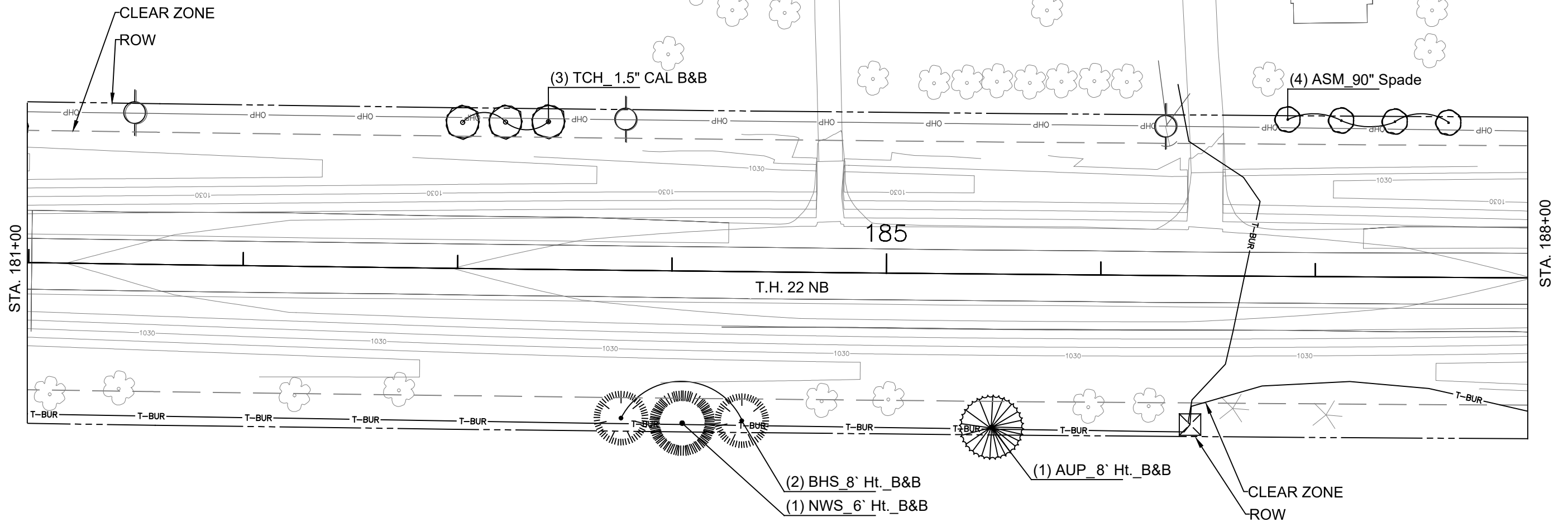
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



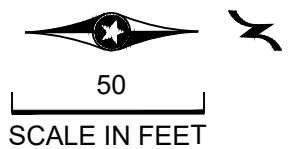
KEY	SPECIES	QUANT.	SPACING
ASM_90"	MAPLE, ARMSTRONG FREEMAN	4	AS SHOWN
AUP_8'	PINE, AUSTRIAN	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	2	AS SHOWN
NWS_6'	SPRUCE, NORWAY	1	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	3	AS SHOWN



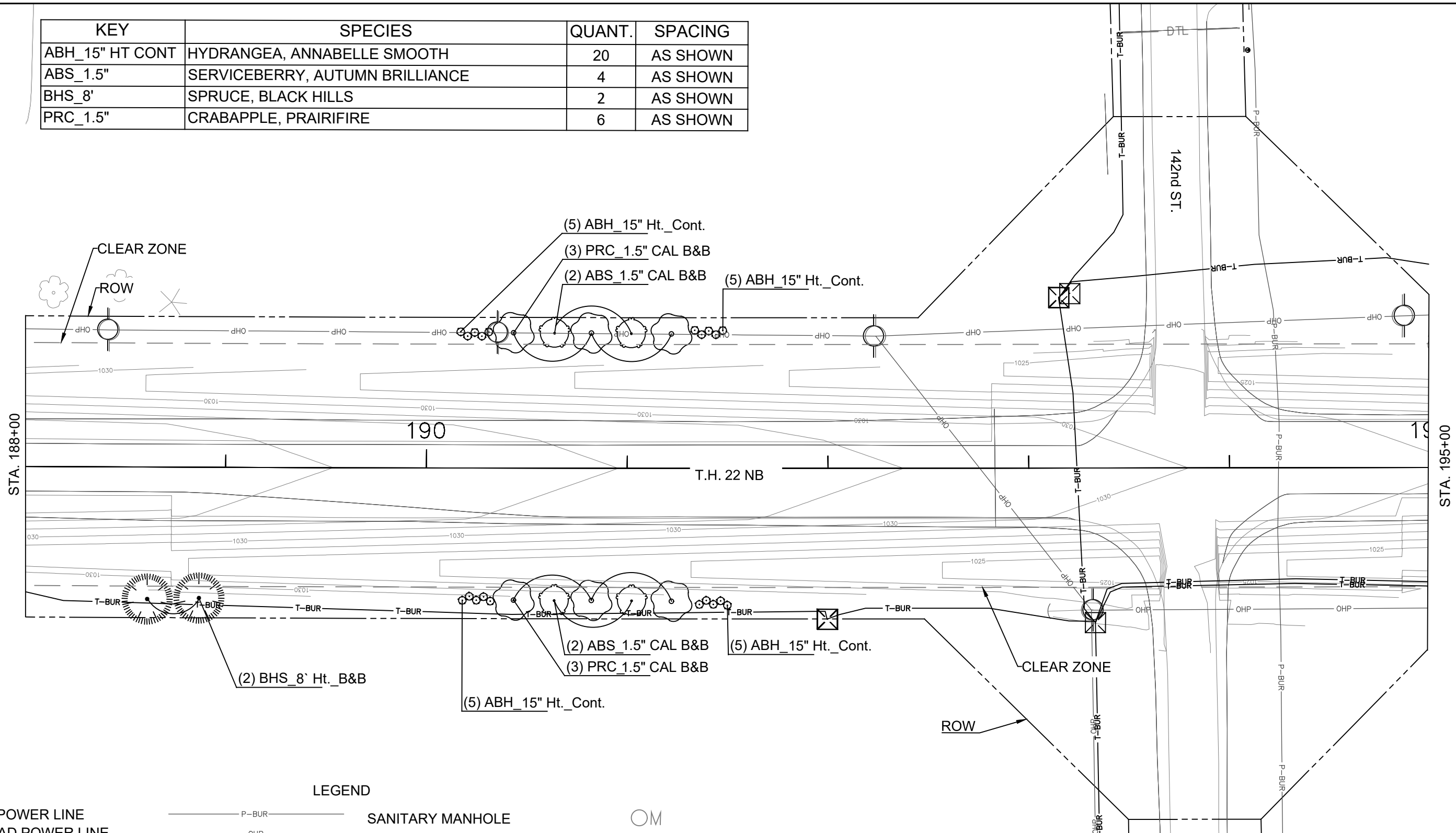
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	—
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— — — — —
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	— — — — —
BURIED SANITARY SEWER	— — — — —		
DRAINAGE PIPE INPLACE	— DTL —		



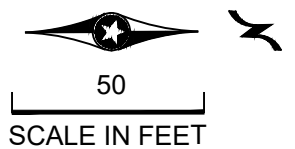
KEY	SPECIES	QUANT.	SPACING
ABH_15" HT CONT	HYDRANGEA, ANNABELLE SMOOTH	20	AS SHOWN
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	4	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	2	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	6	AS SHOWN



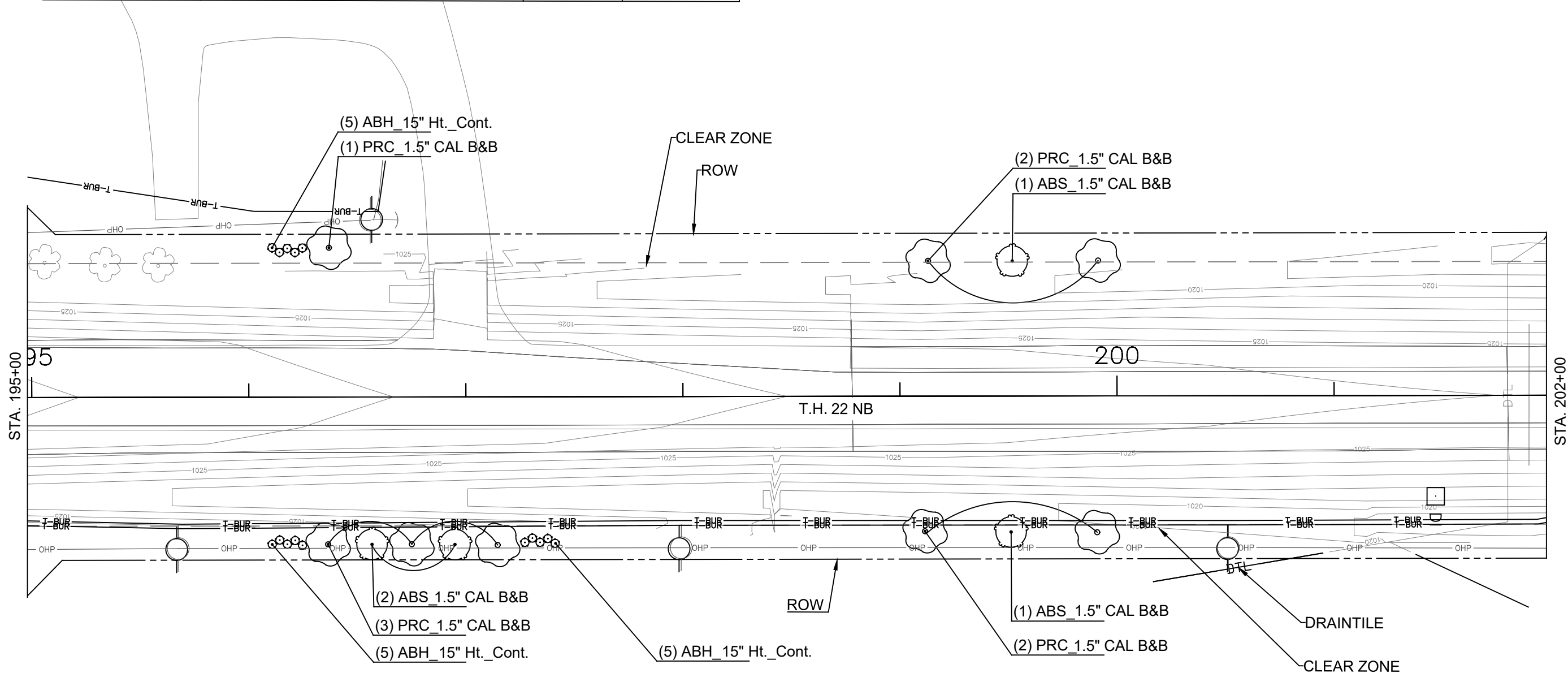
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



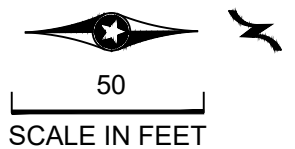
KEY	SPECIES	QUANT.	SPACING
ABH_15" HT CONT	HYDRANGEA, ANNABELLE SMOOTH	15	AS SHOWN
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	4	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	8	AS SHOWN



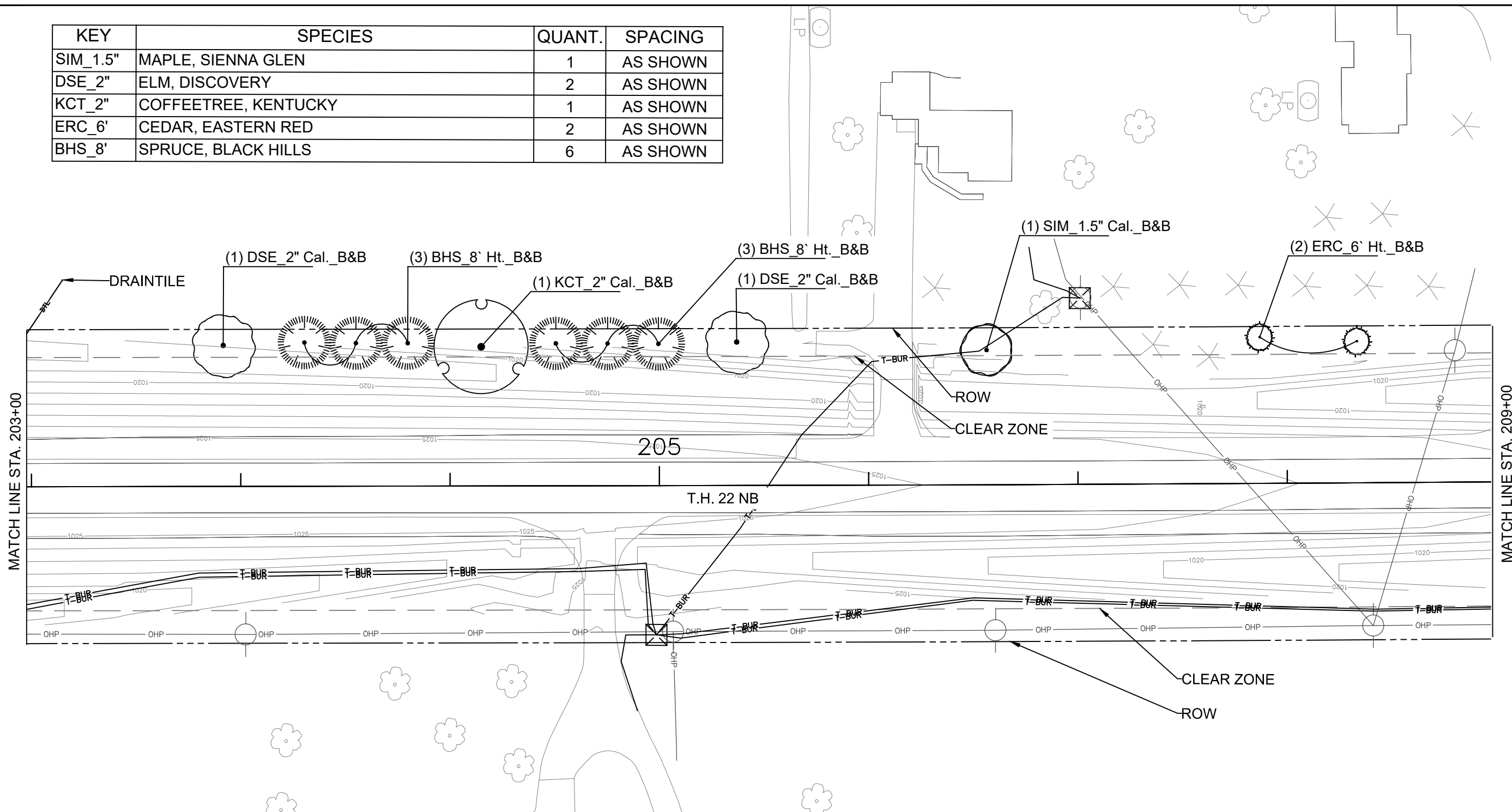
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	—
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · — · —
COMMUNICATION PEDESTAL	⊠	NEW RIGHT-OF-WAY	— · — · —
BURIED SANITARY SEWER	— · — · —	OR PERMANENT EASEMENT	— · — · —
DRAINAGE PIPE INPLACE	— DTL —		

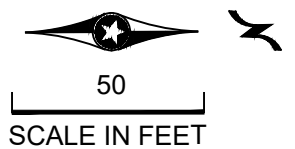


KEY	SPECIES	QUANT.	SPACING
SIM_1.5"	MAPLE, SIENNA GLEN	1	AS SHOWN
DSE_2"	ELM, DISCOVERY	2	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	1	AS SHOWN
ERC_6'	CEDAR, EASTERN RED	2	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	6	AS SHOWN



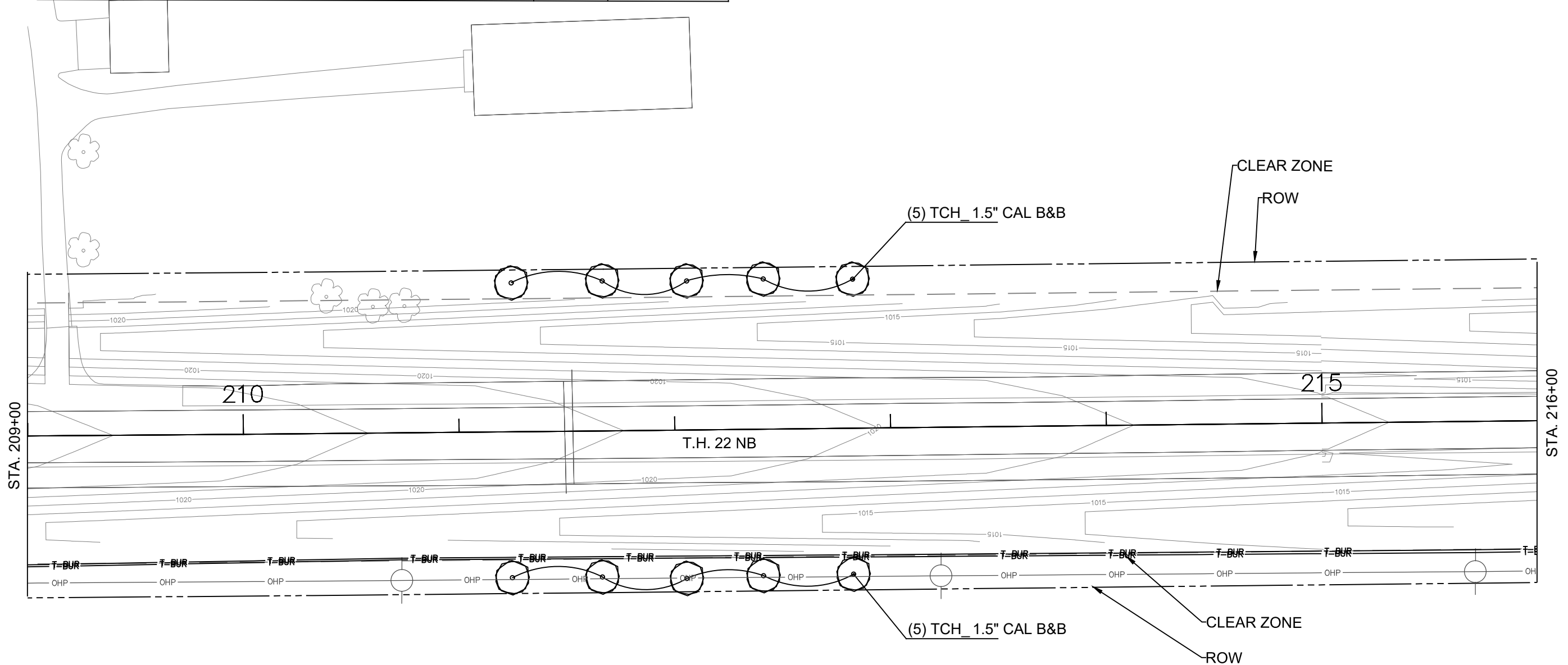
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



DATE: _____
 TIME: _____
 FILENAME: _____

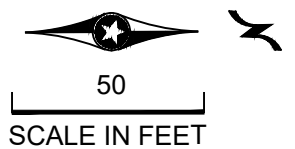
KEY	SPECIES	QUANT.	SPACING
TCH_1.5"	HAWTHORN, THORNLESS	10	AS SHOWN



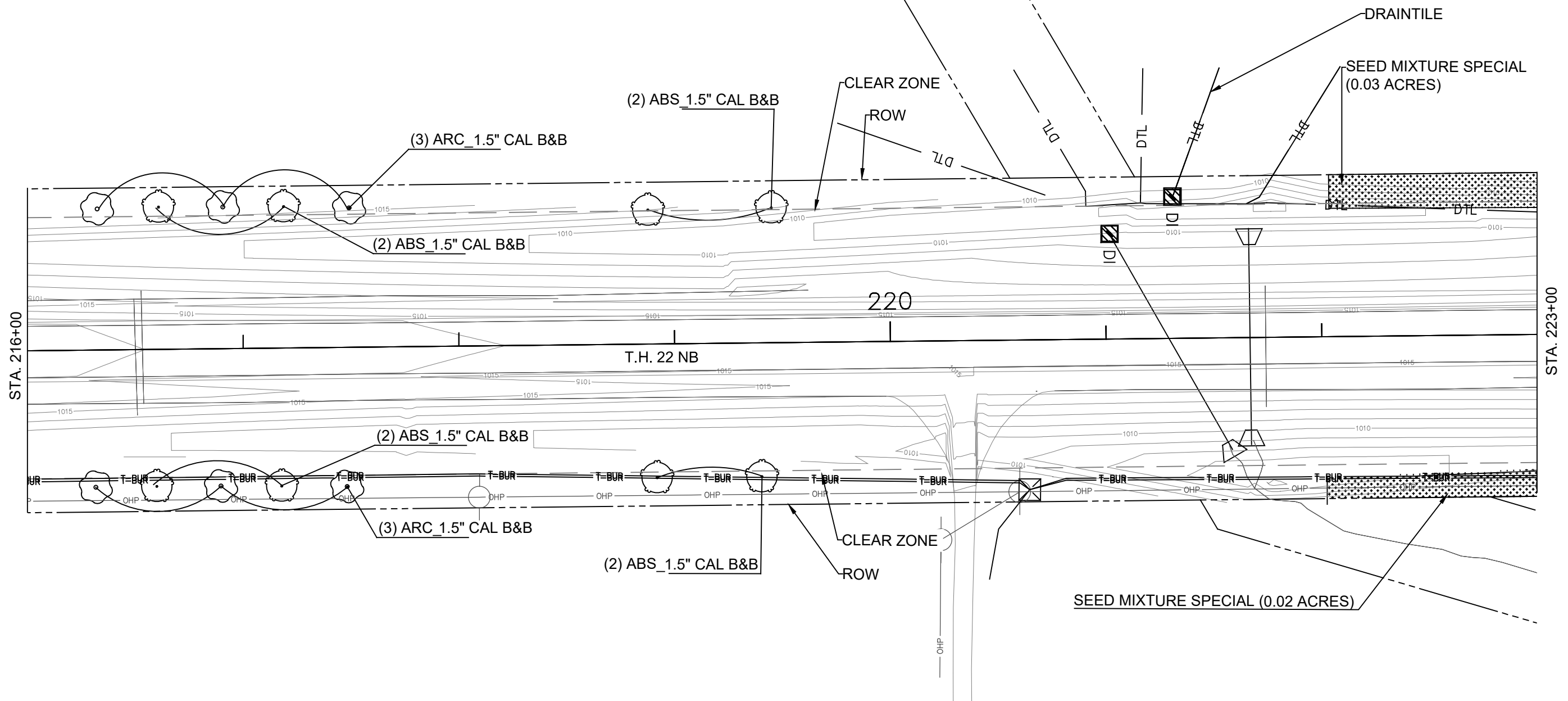
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



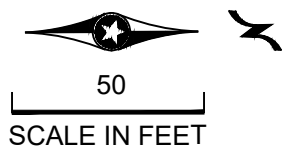
KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	8	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDACK	6	AS SHOWN
	SEED MIXTURE SPECIAL	.05	ACRES




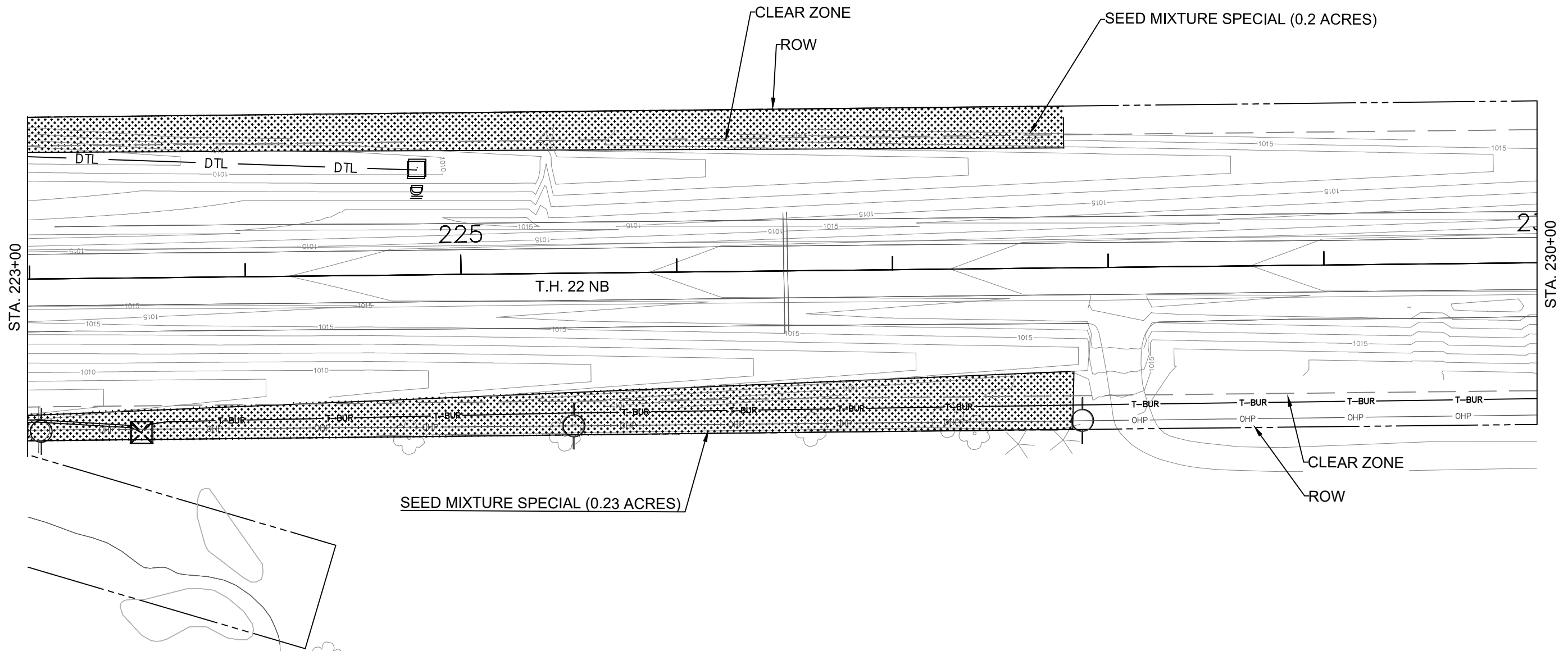
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FILENAME:

LEGEND

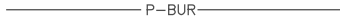






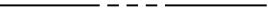
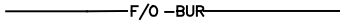


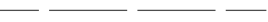





BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			

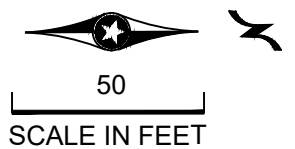


KEY	SPECIES	QUANT.	SPACING
	SEED MIXTURE SPECIAL	0.43	ACRES



LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



DATE: _____
 FILENAME: _____
 TIME: _____

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 REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: _____
 PRINTED NAME: CANDACE C. AMBERG
 DATE: 04/03/2018 LIC. NO. 40646



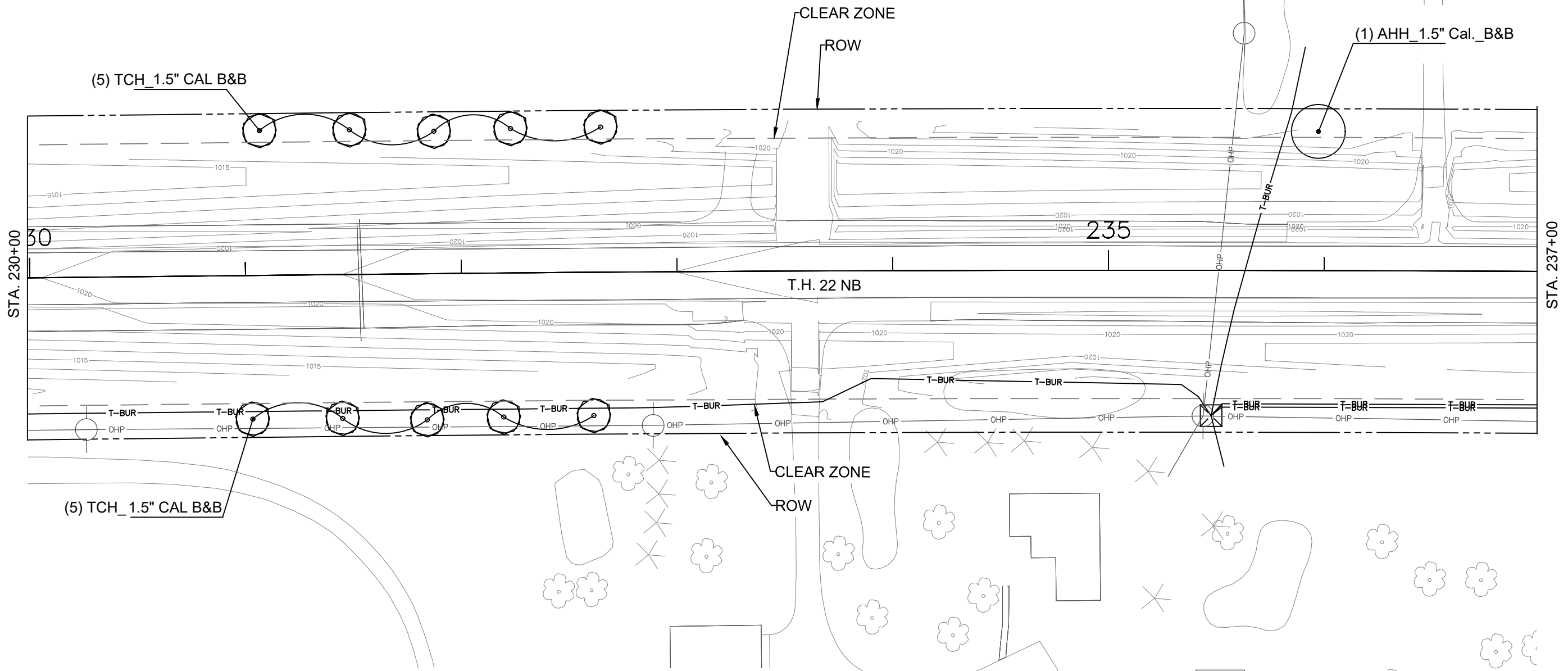
MINNESOTA DEPARTMENT OF TRANSPORTATION
 TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO



LANDSCAPE PLAN

STATE PROJ.NO. 0704-110(T.H. 22)
 Sheet No. 63 of 131 Sheets

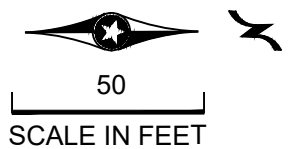
KEY	SPECIES	QUANT.	SPACING
AHH_1.5"	HOPHORNBEAM, AMERICAN	1	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	10	AS SHOWN



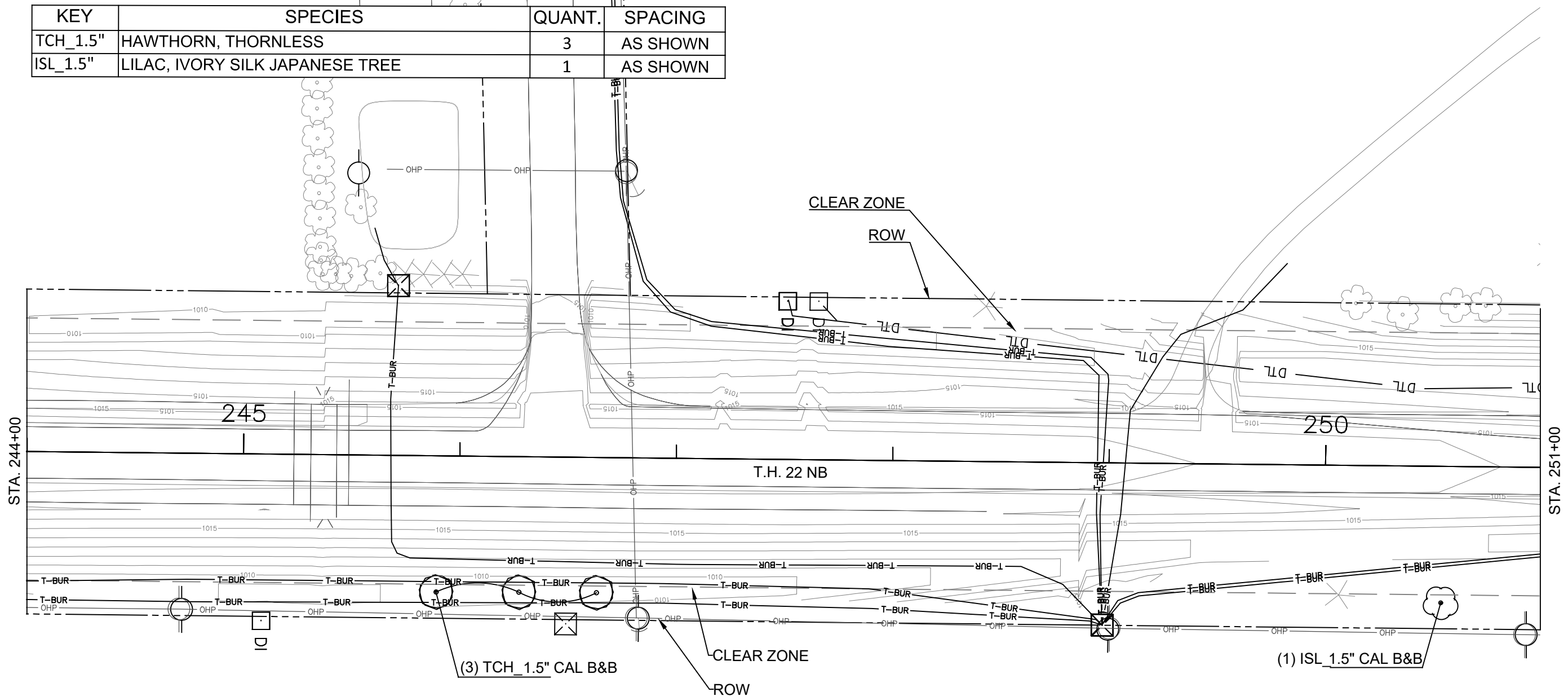
DATE: _____
 TIME: _____
 FILENAME: _____

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		



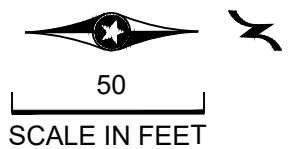
KEY	SPECIES	QUANT.	SPACING
TCH_1.5"	HAWTHORN, THORNLESS	3	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE	1	AS SHOWN



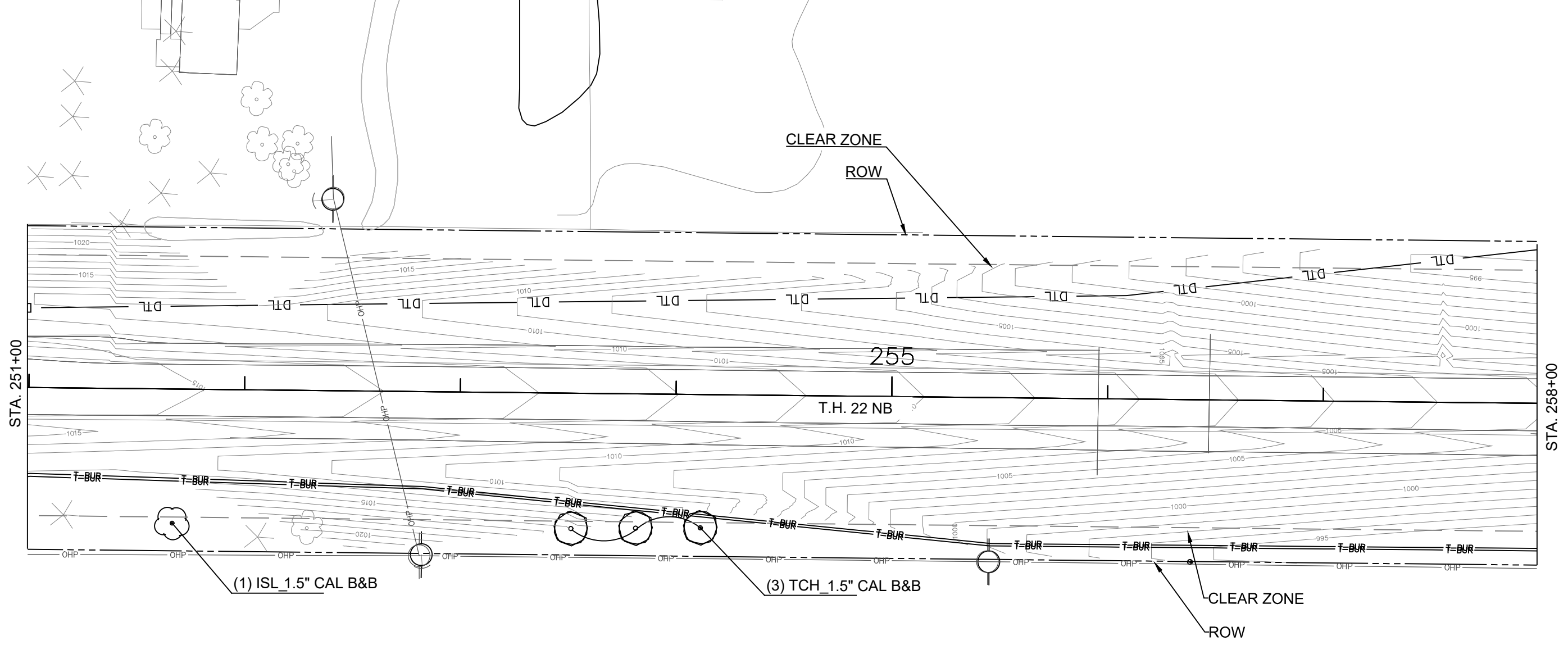
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— — — — —
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		



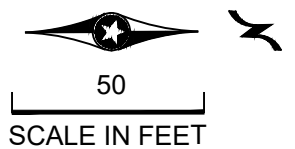
KEY	SPECIES	QUANT.	SPACING
TCH_1.5"	HAWTHORN, THORNLESS	3	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE	1	AS SHOWN



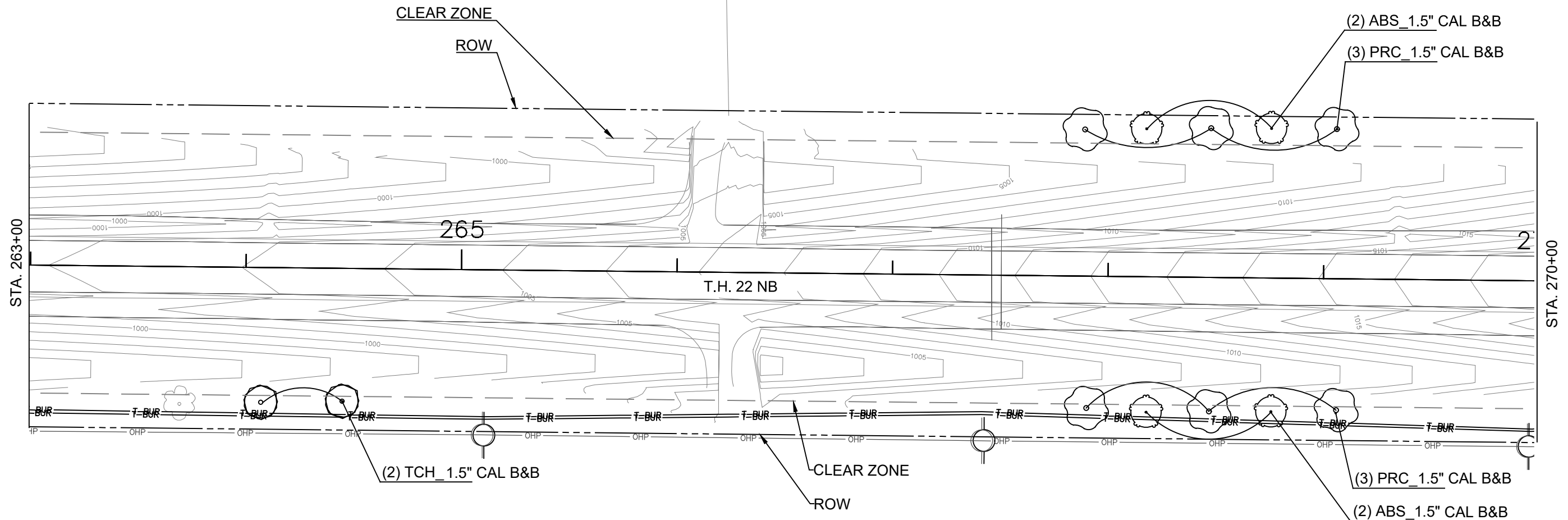
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 FILENAME: _____
 TIME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



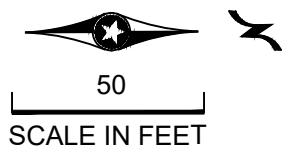
KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	4	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	6	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	2	AS SHOWN



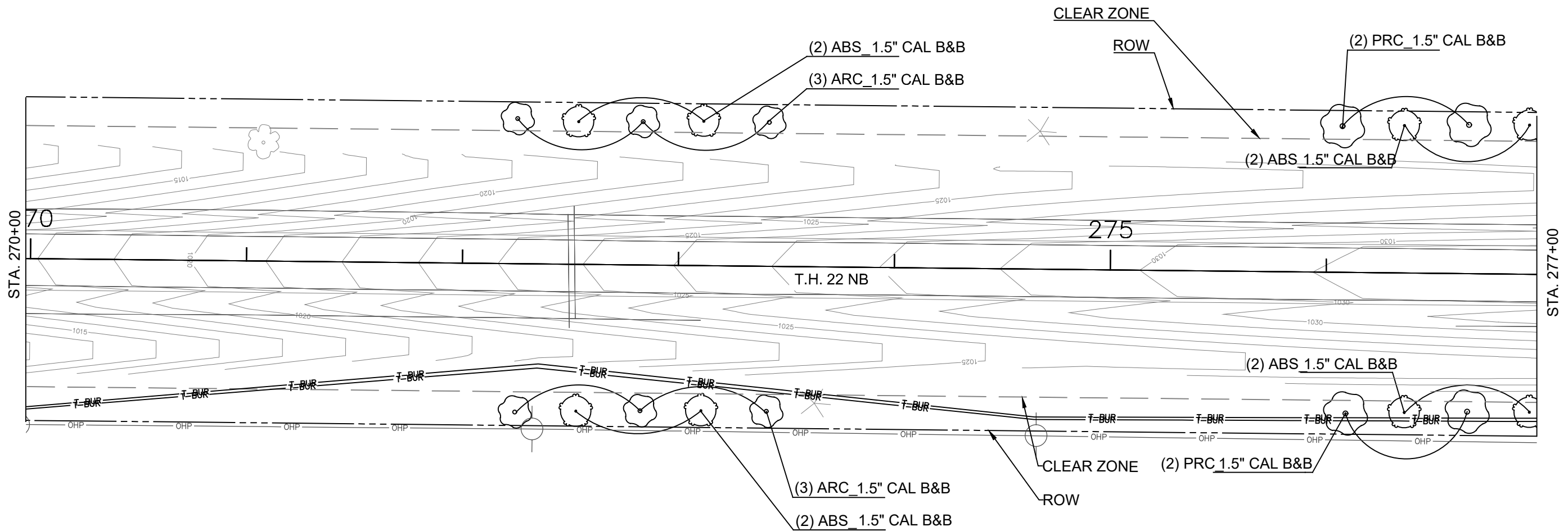
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊠	NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	— — — — —
BURIED SANITARY SEWER	— S-BUR —		
DRAINAGE PIPE INPLACE	— DTL —		



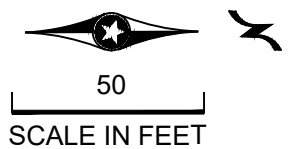
KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	8	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	4	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDACK	6	AS SHOWN



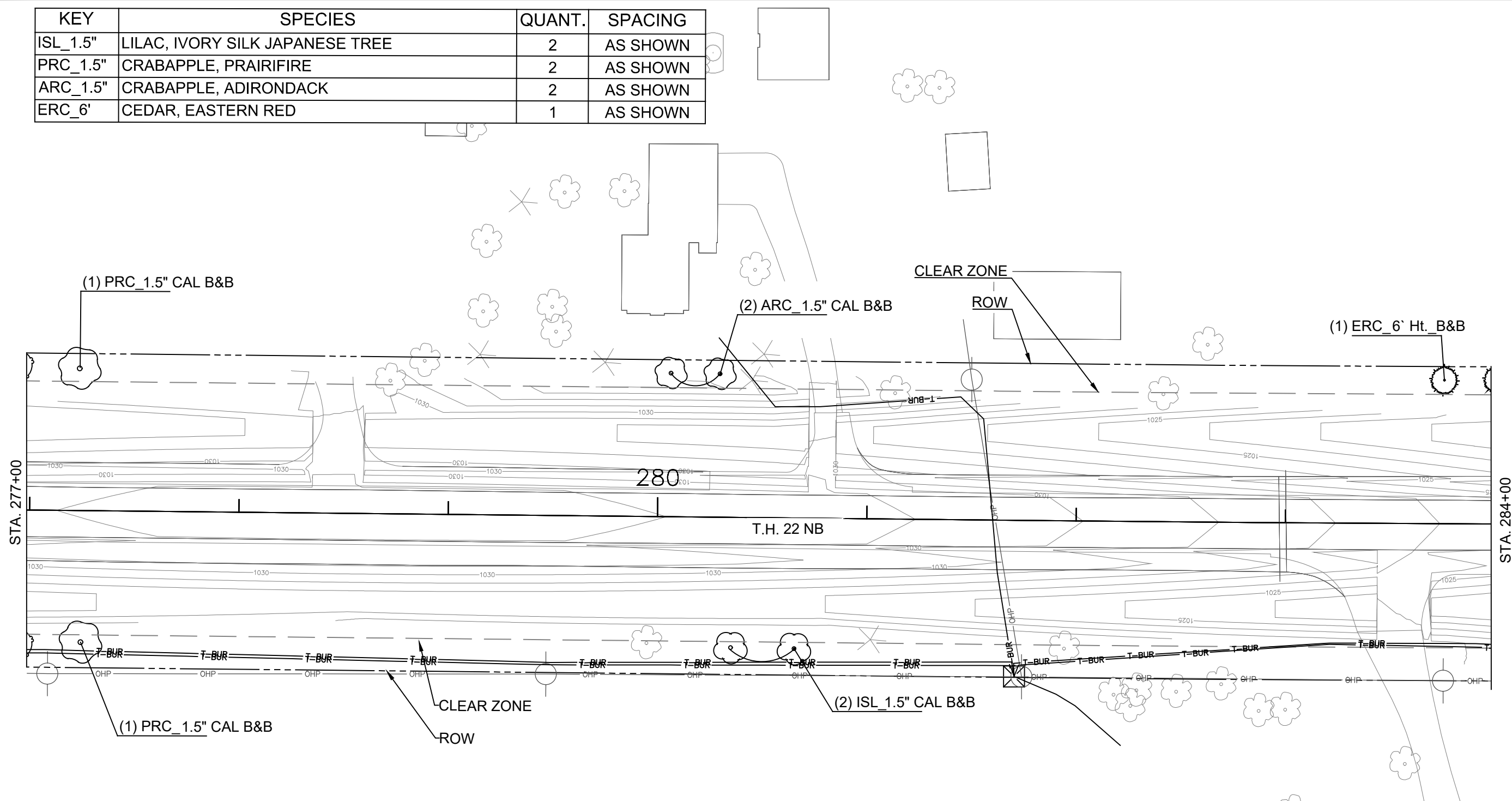
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



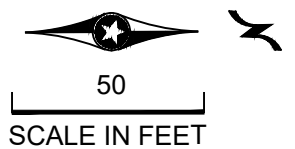
KEY	SPECIES	QUANT.	SPACING
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE	2	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	2	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDACK	2	AS SHOWN
ERC_6'	CEDAR, EASTERN RED	1	AS SHOWN



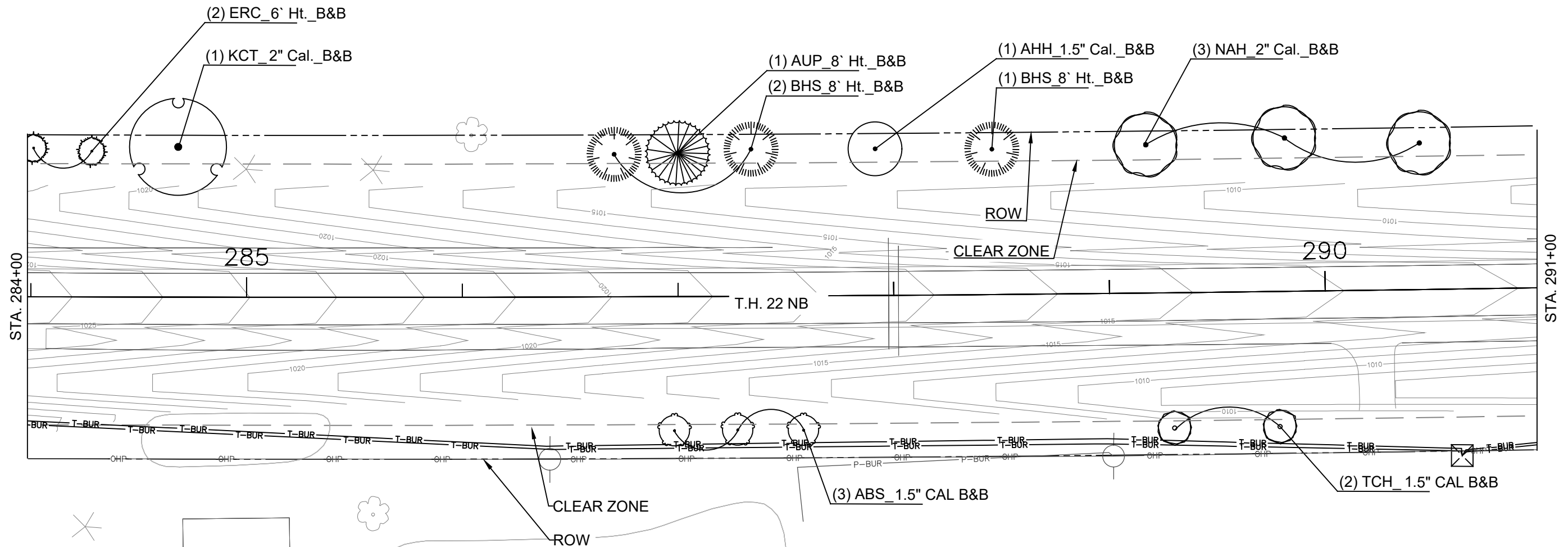
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		



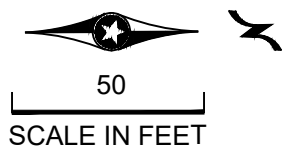
KEY	SPECIES	QUANT.	SPACING
NAH_2"	HONEY LOCUST,NORTHERN ACCLAIM THORNLESS	3	AS SHOWN
AHH_1.5"	HOPHORNBEAM, AMERICAN	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	3	AS SHOWN
AUP_8'	PINE, AUSTRIAN	1	AS SHOWN
ABS_6'	SERVICEBERRY, AUTUMN BRILLIANCE	3	AS SHOWN
ERC_6'	CEDAR, EASTERN RED	2	AS SHOWN
TCH_5'	HAWTHORN, THORNLESS	2	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	1	AS SHOWN



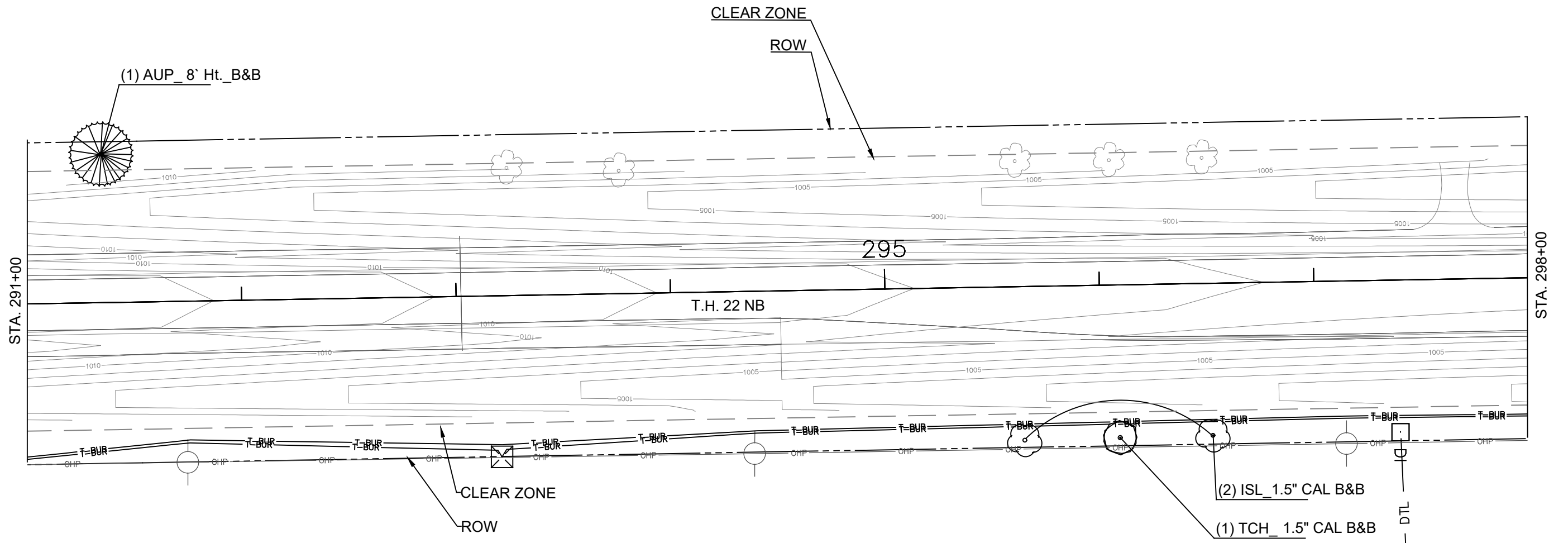
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 TIME: _____
 FILENAME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



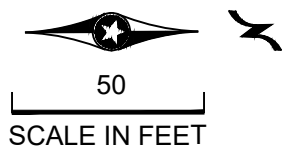
KEY	SPECIES	QUANT.	SPACING
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE	2	AS SHOWN
AUP_8'	PINE, AUSTRIAN	1	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	1	AS SHOWN



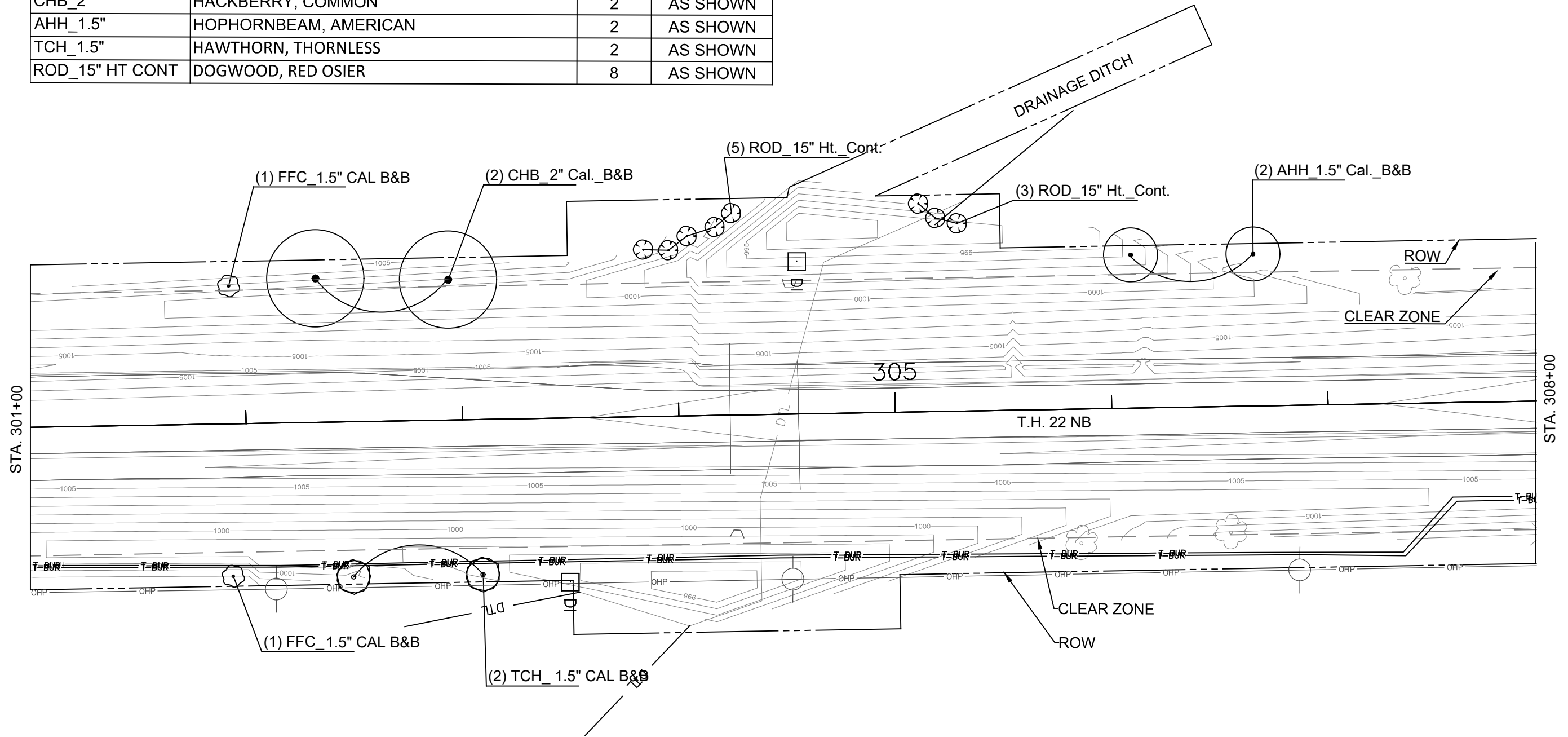
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 FILENAME: _____
 TIME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



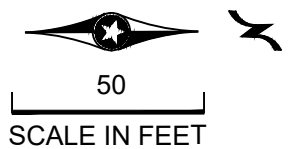
KEY	SPECIES	QUANT.	SPACING
FFC_1.5"	CRABAPPLE, FIREBIRD	2	AS SHOWN
CHB_2"	HACKBERRY, COMMON	2	AS SHOWN
AHH_1.5"	HOPHORNBEAM, AMERICAN	2	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	2	AS SHOWN
ROD_15" HT CONT	DOGWOOD, RED OSIER	8	AS SHOWN



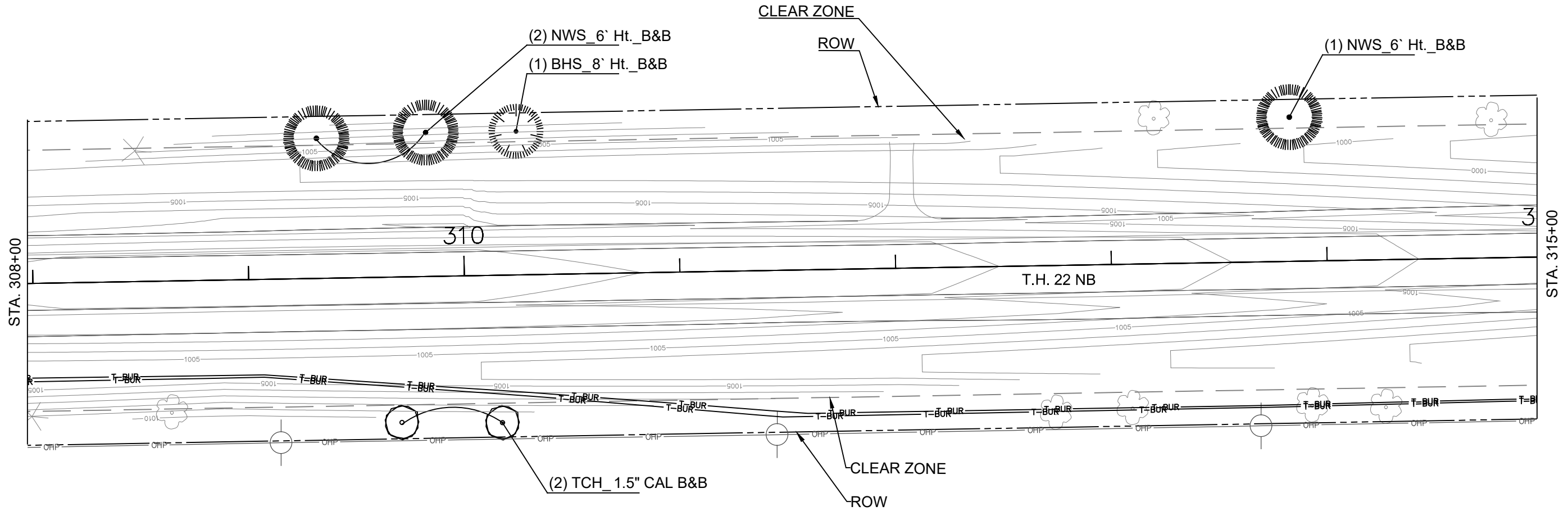
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		



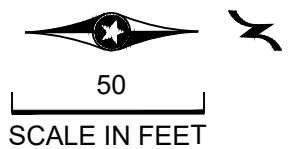
KEY	SPECIES	QUANT.	SPACING
BHS_8'	SPRUCE, BLACK HILLS	1	AS SHOWN
NWS_6'	SPRUCE, NORWAY	3	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	2	AS SHOWN



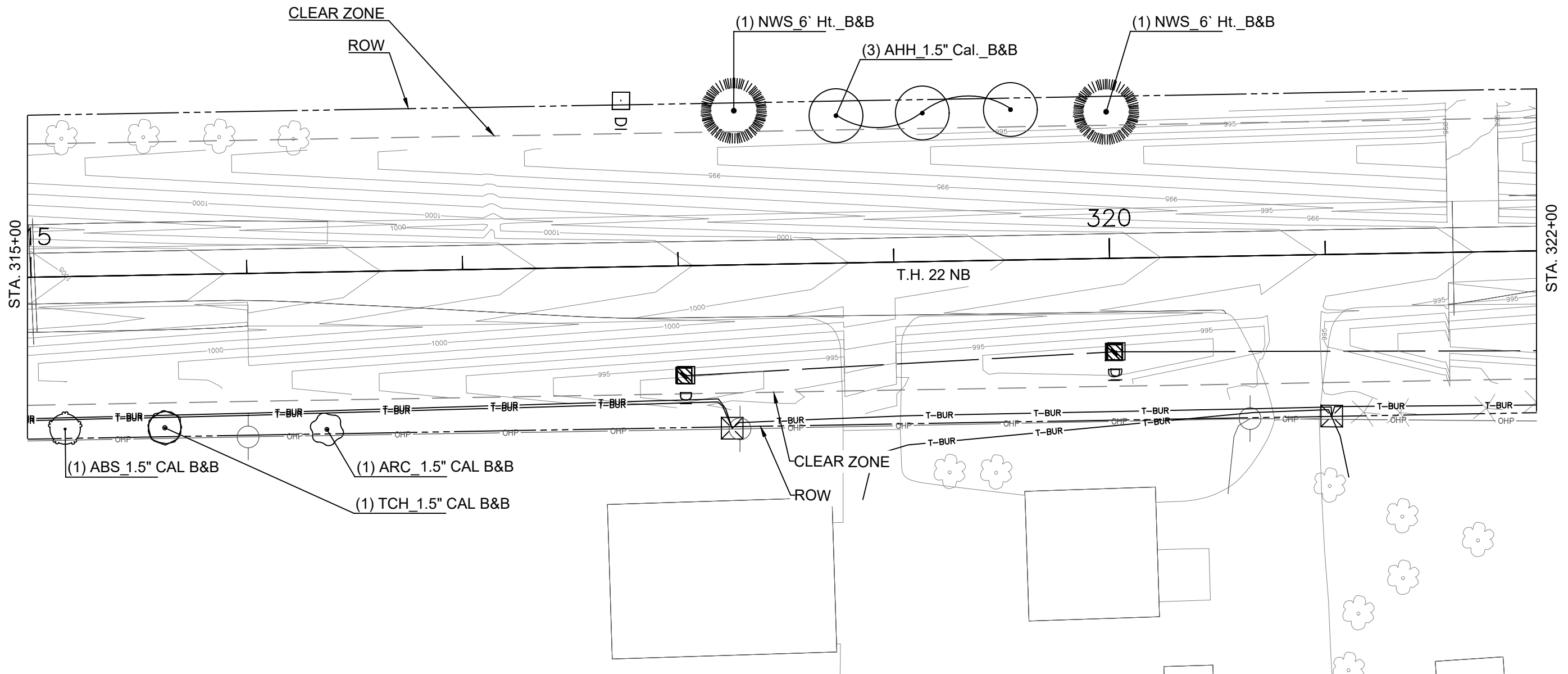
DATE: _____
 FILENAME: _____
 TIME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



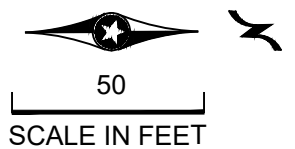
KEY	SPECIES	QUANT.	SPACING
AHH_1.5"	HOPHORNBEAM, AMERICAN	3	AS SHOWN
NWS_6'	SPRUCE, NORWAY	2	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	1	AS SHOWN
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	1	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDACK	1	AS SHOWN



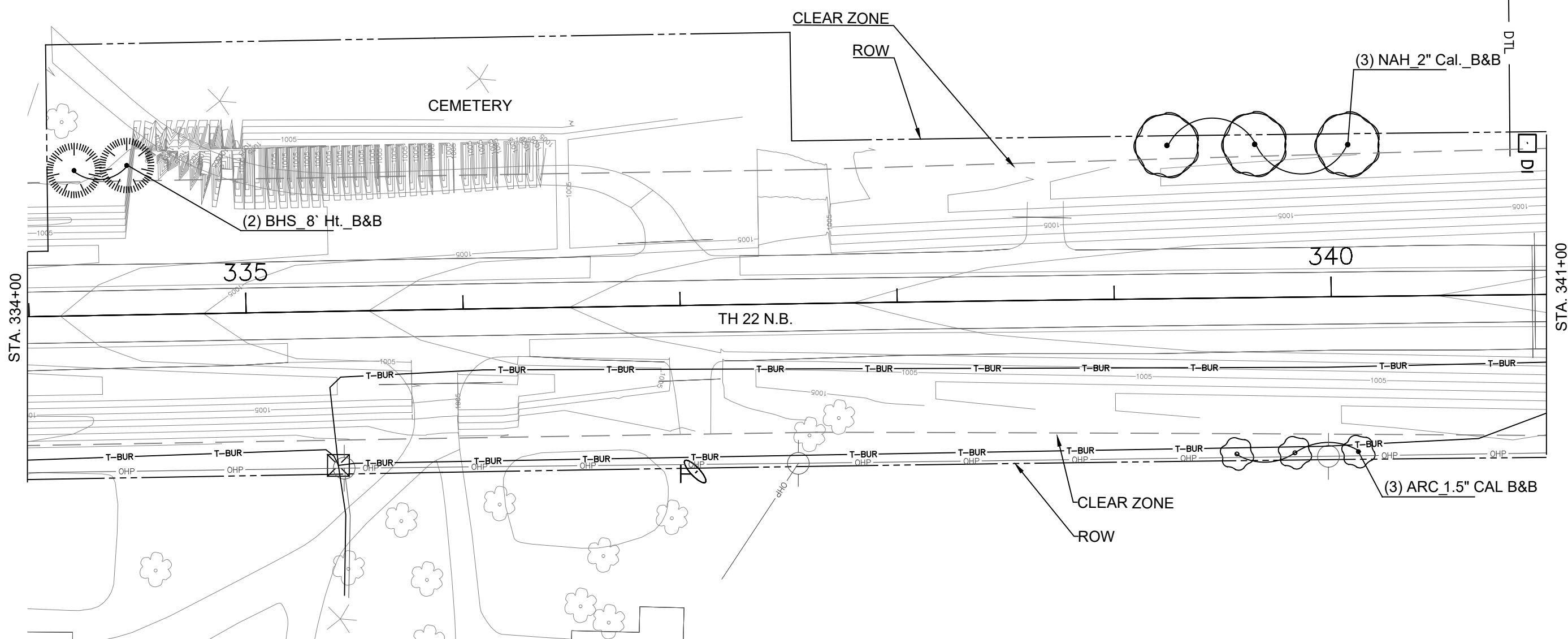
DATE: _____
 TIME: _____
 FILENAME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			

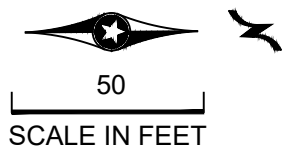


KEY	SPECIES	QUANT.	SPACING
BHS_8'	SPRUCE, BLACK HILLS	2	AS SHOWN
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	3	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDACK	3	AS SHOWN



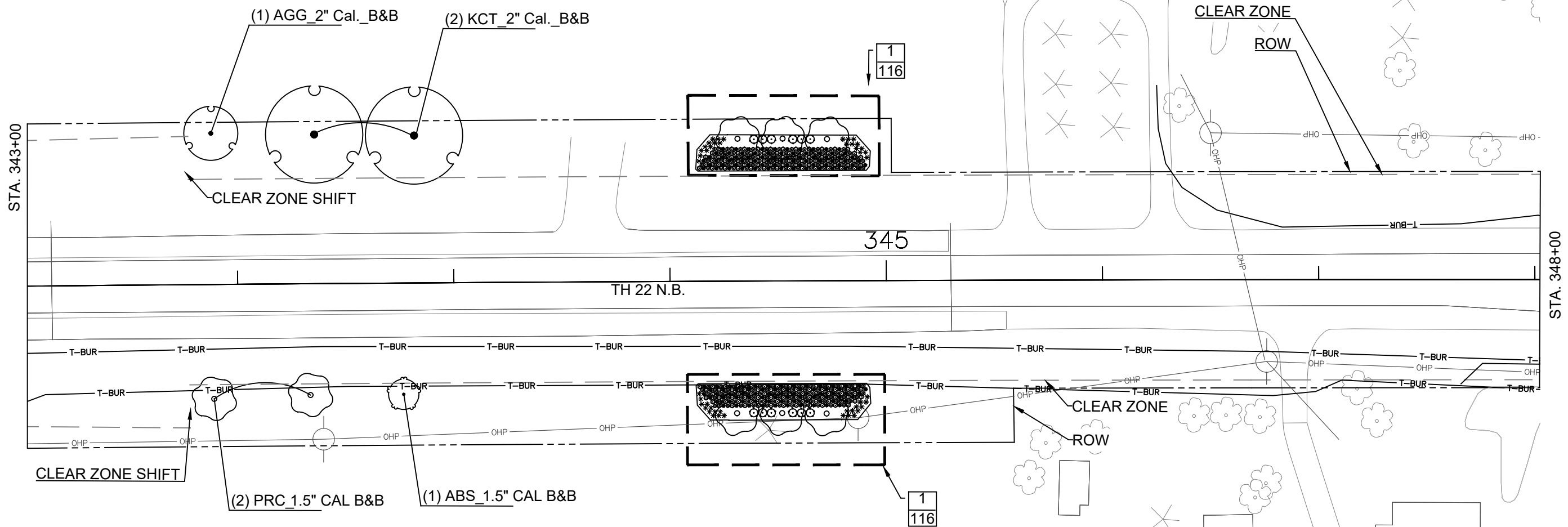
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



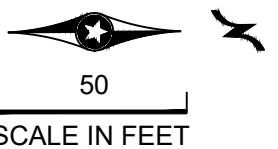
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DATE:
FILENAME:

KEY	SPECIES	QUANT.	SPACING
PRC_1.5"	CRABAPPLE, PRAIRIEFIRE	8	AS SHOWN
ABH_15" HT CONT	HYDRANGEA, ANNABELLE SMOOTH	12	AS SHOWN
FPPC_4"	CONEFLOWER, PURPLE	146	AS SHOWN
FDWC_4"	CONEFLOWER, BABY WHITE SWAN	144	AS SHOWN
FBES_4"	BLACK EYED SUSAN	148	AS SHOWN
GFRG_NO 1	GRASS, FEATHER REED	46	AS SHOWN
AGG_2"	MAIDENHAIR TREE	1	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	2	AS SHOWN
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	1	AS SHOWN



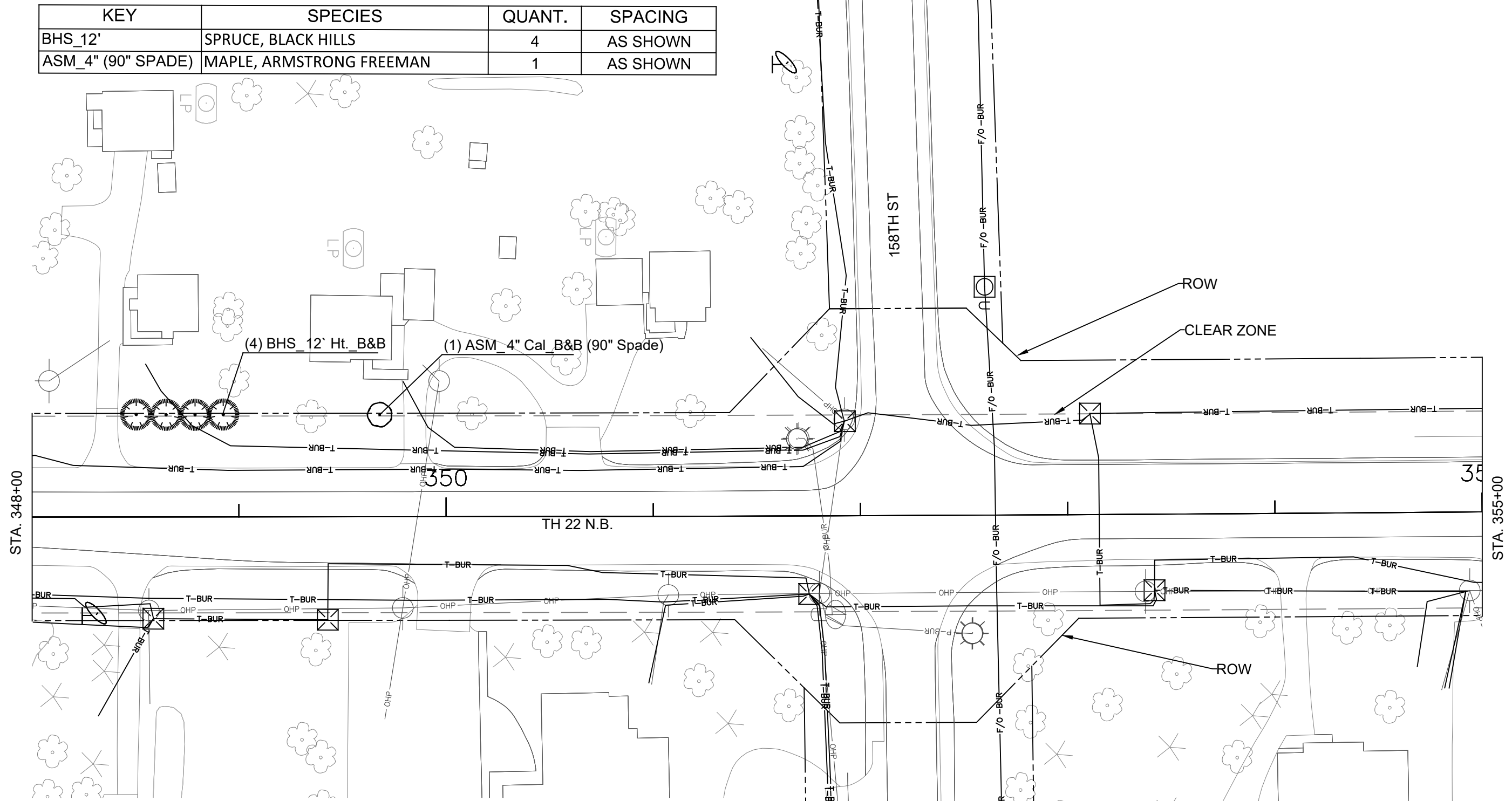
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



TIME:
DATE:
FILENAME:

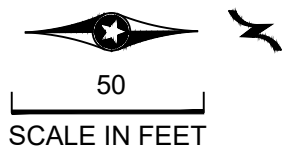
KEY	SPECIES	QUANT.	SPACING
BHS_12'	SPRUCE, BLACK HILLS	4	AS SHOWN
ASM_4" (90" SPADE)	MAPLE, ARMSTRONG FREEMAN	1	AS SHOWN



TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



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 REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: _____
PRINTED NAME: CANDACE C. AMBERG
DATE: 04/03/2018 LIC. NO. 40646



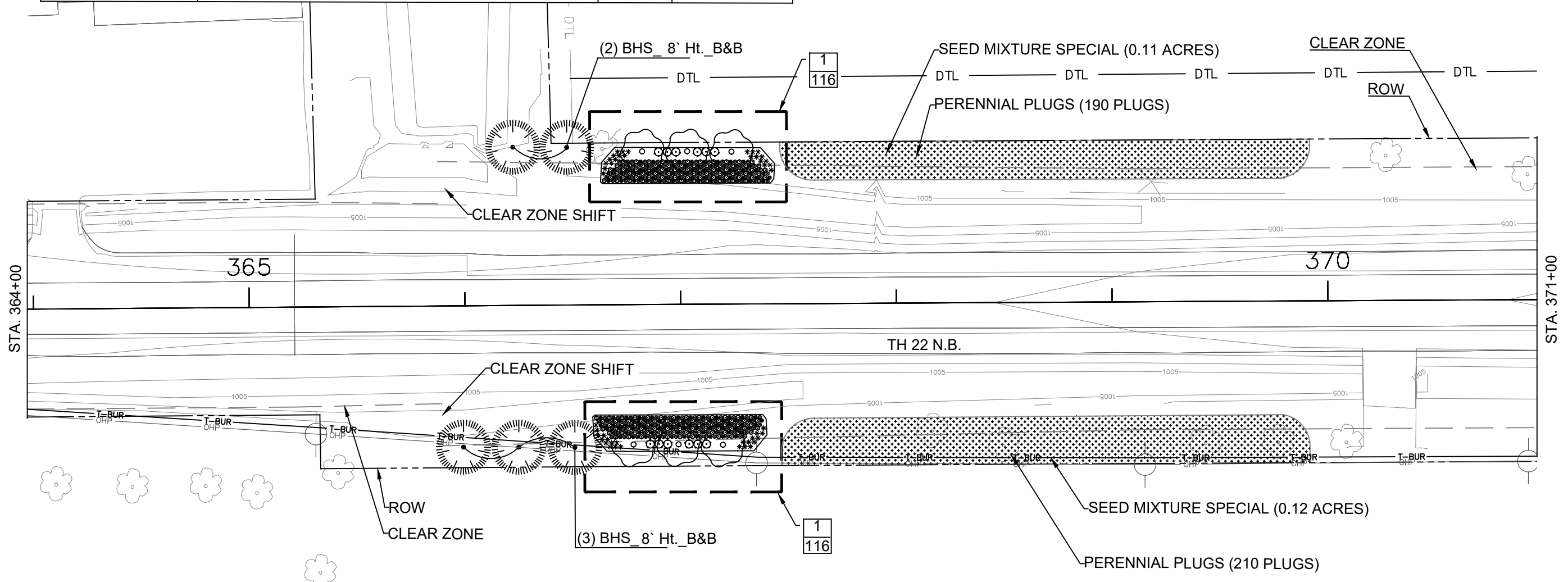
MINNESOTA DEPARTMENT OF TRANSPORTATION
TH 22 LANDSCAPING FROM THE
CITY OF MAPLETON TO MANKATO



LANDSCAPE PLAN

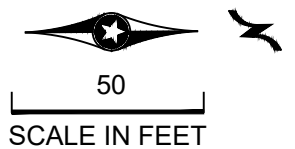
STATE PROJ.NO. 0704-110(T.H. 22)
Sheet No. 77 of 131 Sheets

KEY	SPECIES	QUANT.	SPACING
PRC_1.5"	CRABAPPLE, PRAIRIEFIRE	6	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	5	AS SHOWN
ABH_15" HT CONT	HYDRANGEA, ANNABELLE SMOOTH	12	AS SHOWN
FPPC_4"	CONEFLOWER, PURPLE	146	AS SHOWN
FDWC_4"	CONEFLOWER, BABY WHITE SWAN	144	AS SHOWN
FBES_4"	BLACK EYED SUSAN	148	AS SHOWN
GFRG_NO 1	GRASS, FEATHER REED	46	AS SHOWN
	SEED MIXTURE SPECIAL	0.23	ACRES
	PERENNIAL PLUGS	400	30" O.C.



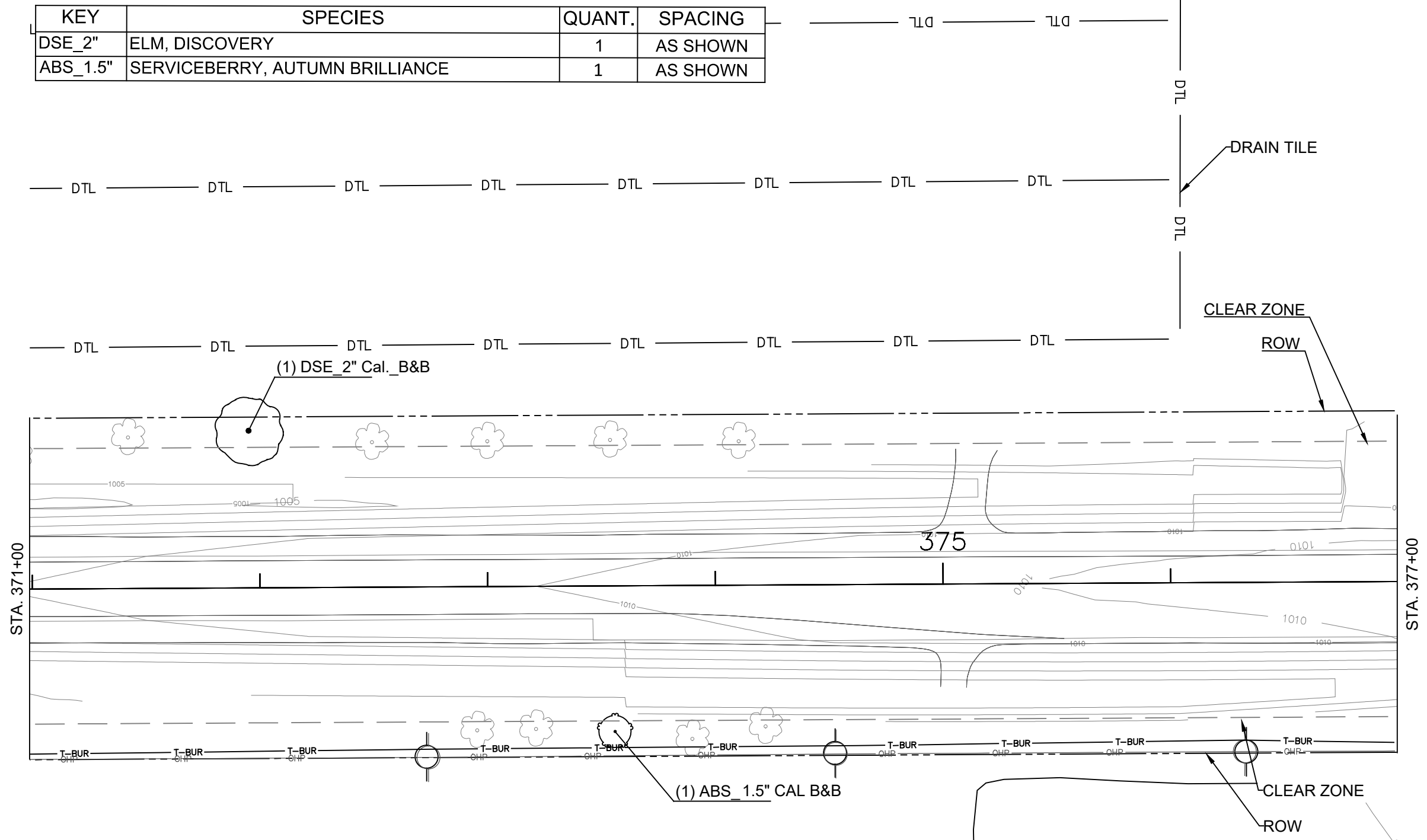
LEGEND

BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE	G	RIGHT OF WAY	
BURIED FIBER OPTIC LINE	F/O-BUR	CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE	T-BUR	TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE	DTL		



DATE: FILENAME: TIME:

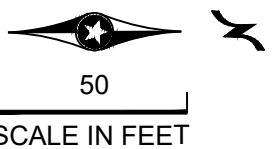
KEY	SPECIES	QUANT.	SPACING
DSE_2"	ELM, DISCOVERY	1	AS SHOWN
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	1	AS SHOWN



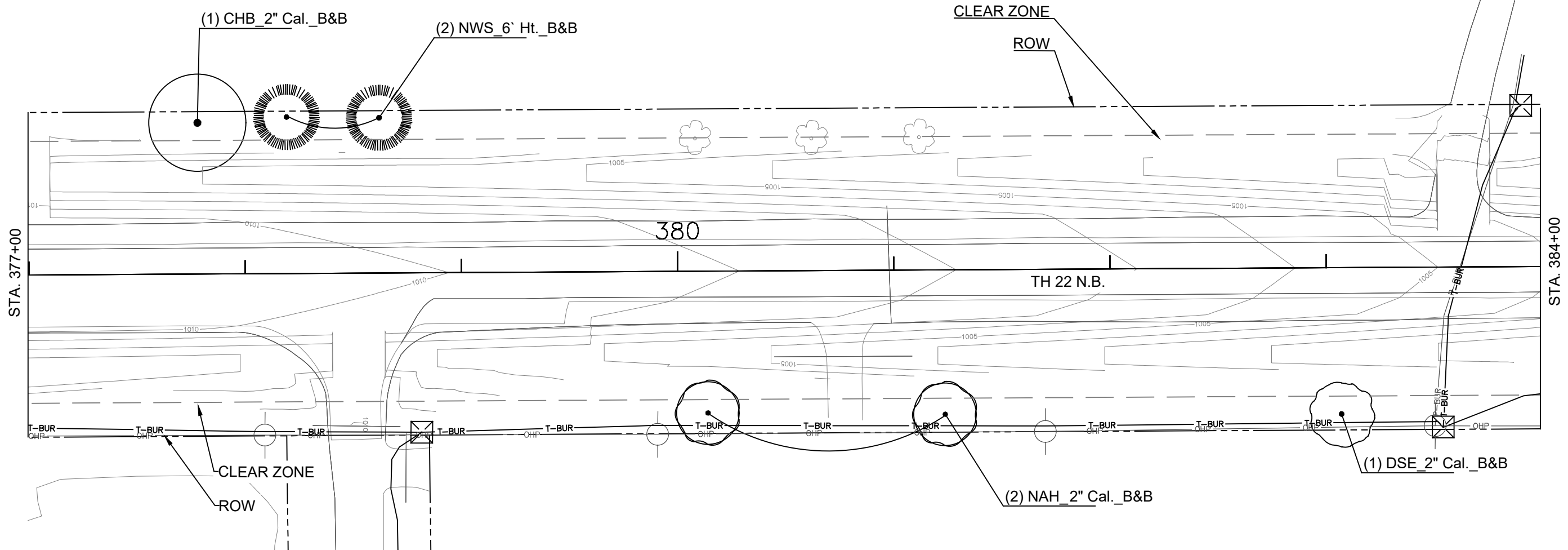
TIME:
DATE:
FILENAME:

LEGEND

- | | | | |
|---------------------------|--|-----------------------|--|
| BURIED POWER LINE | | SANITARY MANHOLE | |
| OVERHEAD POWER LINE | | BURIED WATER LINE | |
| POWER POLE | | WATER HYDRANT | |
| BURIED GAS LINE | | RIGHT OF WAY | |
| BURIED FIBER OPTIC LINE | | CONSTRUCTION LIMITS | |
| BURIED COMMUNICATION LINE | | TEMPORARY EASEMENT | |
| COMMUNICATION PEDESTAL | | NEW RIGHT-OF-WAY | |
| BURIED SANITARY SEWER | | OR PERMANENT EASEMENT | |
| DRAINAGE PIPE INPLACE | | | |

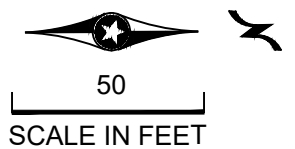


KEY	SPECIES	QUANT.	SPACING
CHB_2"	HACKBERRY, COMMON	1	AS SHOWN
NWS_6'	SPRUCE, NORWAY	2	AS SHOWN
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	2	AS SHOWN
DSE_2"	ELM, DISCOVERY	1	AS SHOWN



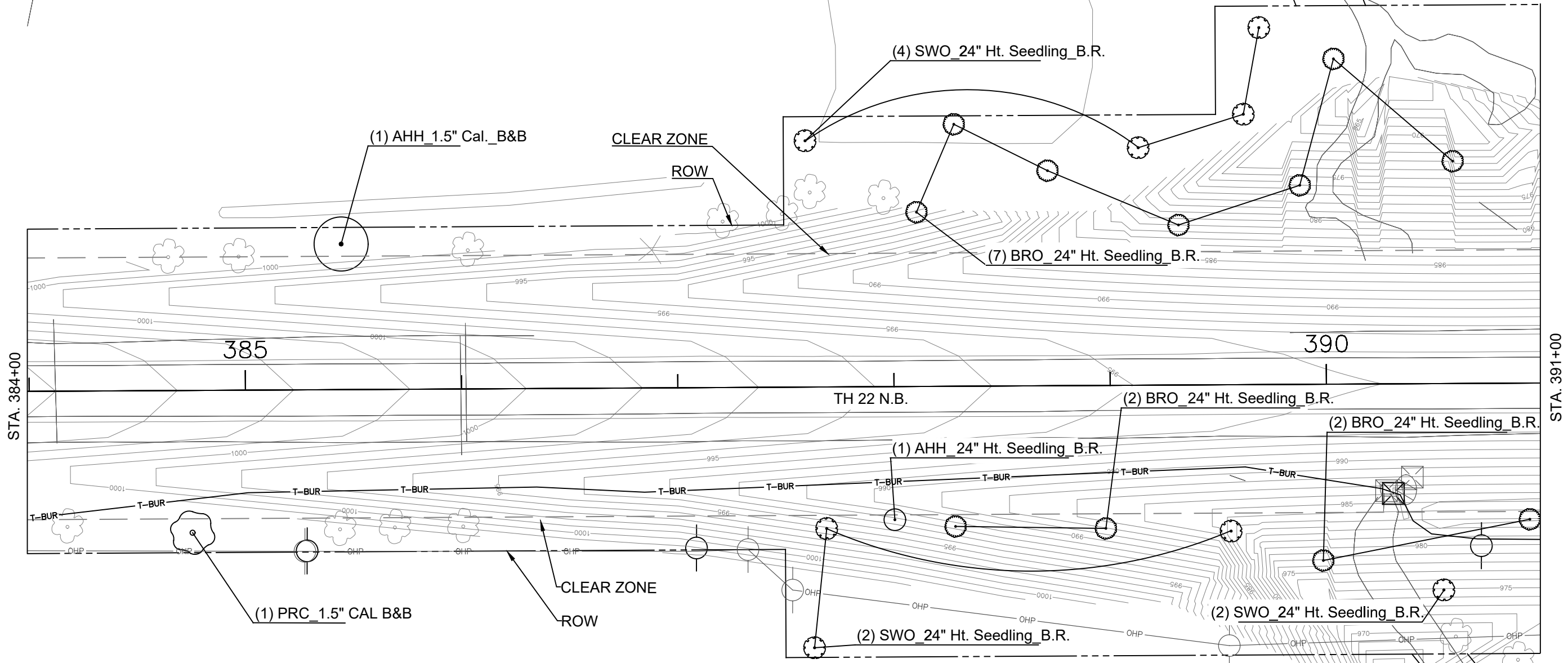
LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · — · — · —
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	— · — · — · —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— · — · — · —
DRAINAGE PIPE INPLACE	— DTL —		



TIME:
DATE:
FILENAME:

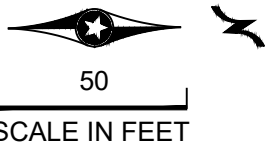
KEY	SPECIES	QUANT.	SPACING
AHH_1.5"	HOPHORNBEAM, AMERICAN	1	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIE FIRE	1	AS SHOWN
AHH_24" HT. SEEDLING B.R.	HOPHORNBEAM, AMERICAN	1	AS SHOWN
SWO_24" HT. SEEDLING B.R.	OAK, SWAMP WHITE	8	AS SHOWN
BRO_24" HT. SEEDLING B.R.	OAK, BUR	11	AS SHOWN



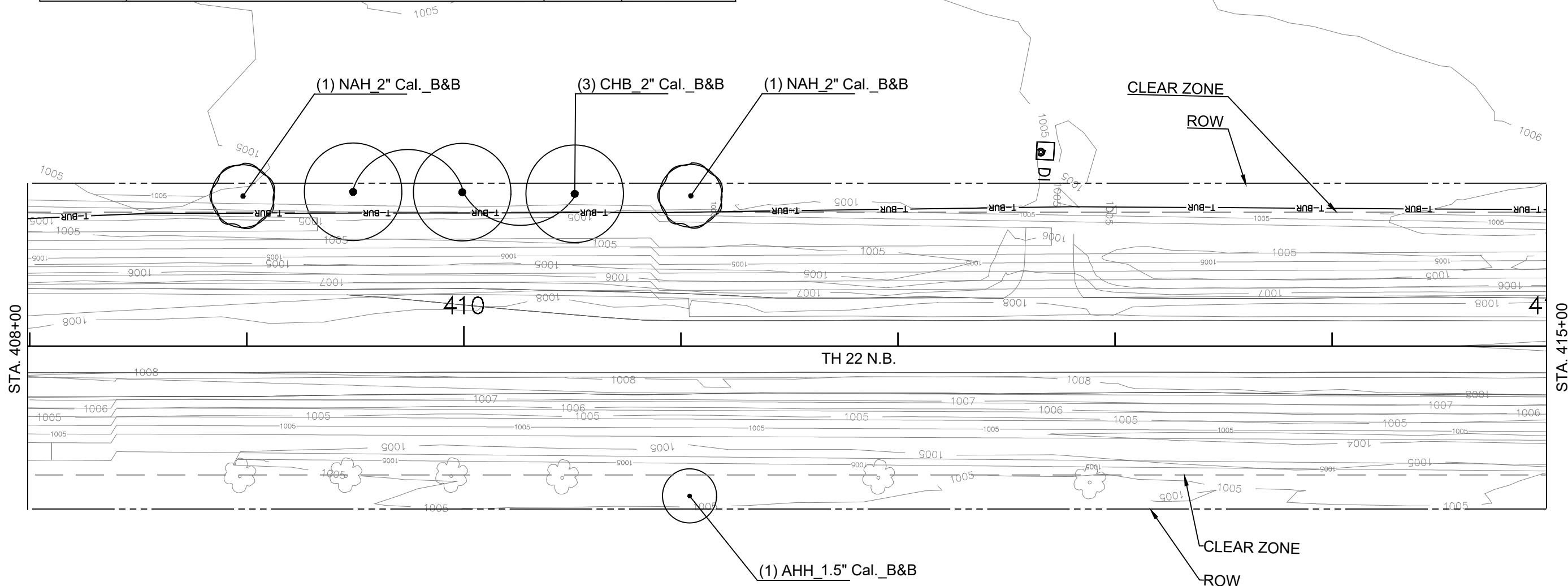
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DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— · · · · ·
DRAINAGE PIPE INPLACE	— DTL —		

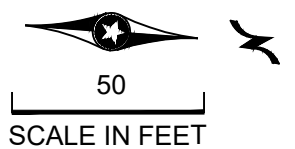


KEY	SPECIES	QUANT.	SPACING
CHB_2"	HACKBERRY, COMMON	3	AS SHOWN
AHH_1.5"	HOPHORNBEAM, AMERICAN	1	AS SHOWN
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	2	AS SHOWN



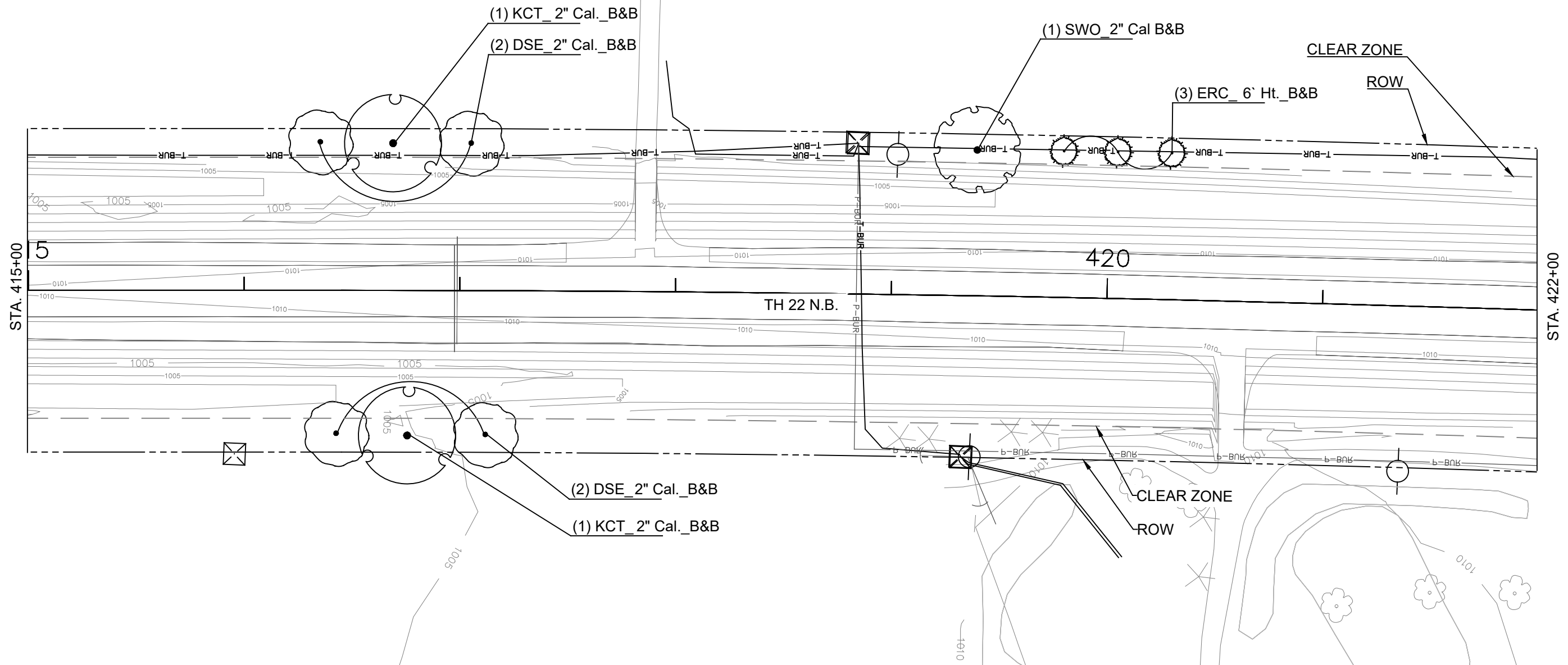
LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	—
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊠	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— · · · · ·	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		



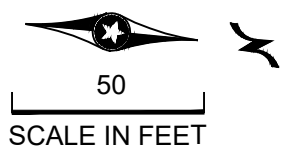
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KEY	SPECIES	QUANT.	SPACING
KCT_2"	COFFEETREE, KENTUCKY	2	AS SHOWN
SWO_2"	OAK, SWAMP WHITE	1	AS SHOWN
ERC_6'	CEDAR, EASTERN RED	3	AS SHOWN
DSE_2"	ELM, DISCOVERY	4	AS SHOWN



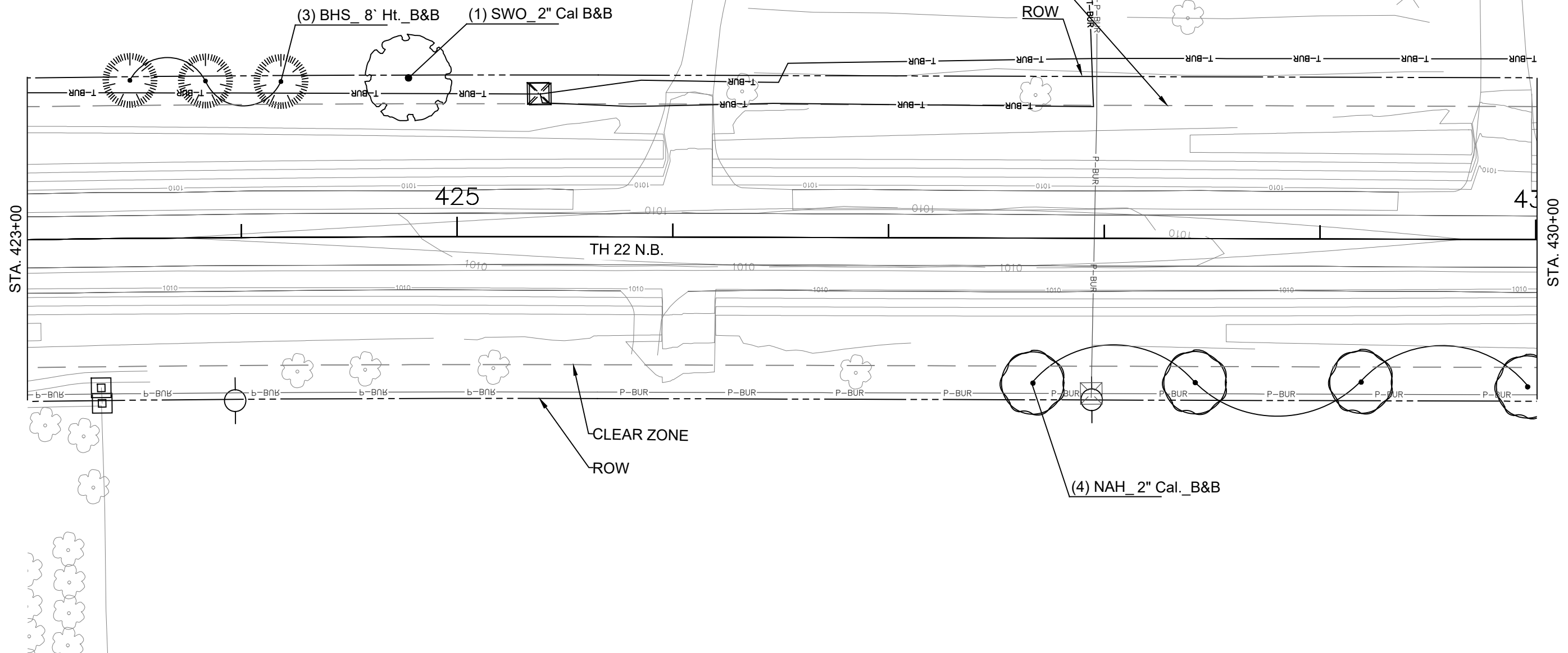
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



TIME:
DATE:
FILENAME:

KEY	SPECIES	QUANT.	SPACING
BHS_8'	SPRUCE, BLACK HILLS	3	AS SHOWN
SWO_2"	OAK, SWAMP WHITE	1	AS SHOWN
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	4	AS SHOWN

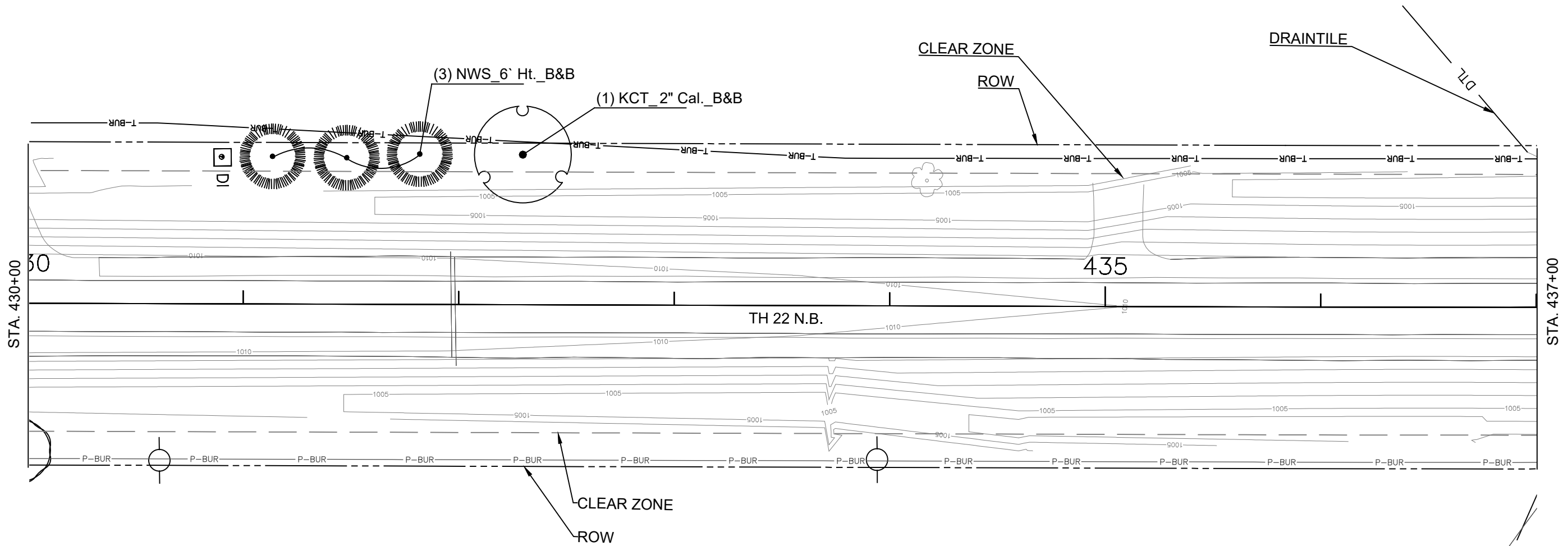


LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

DATE: _____
 FILENAME: _____
 TIME: _____

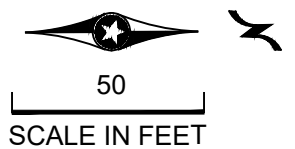
KEY	SPECIES	QUANT.	SPACING
NWS_6'	SPRUCE, NORWAY	3	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	1	AS SHOWN



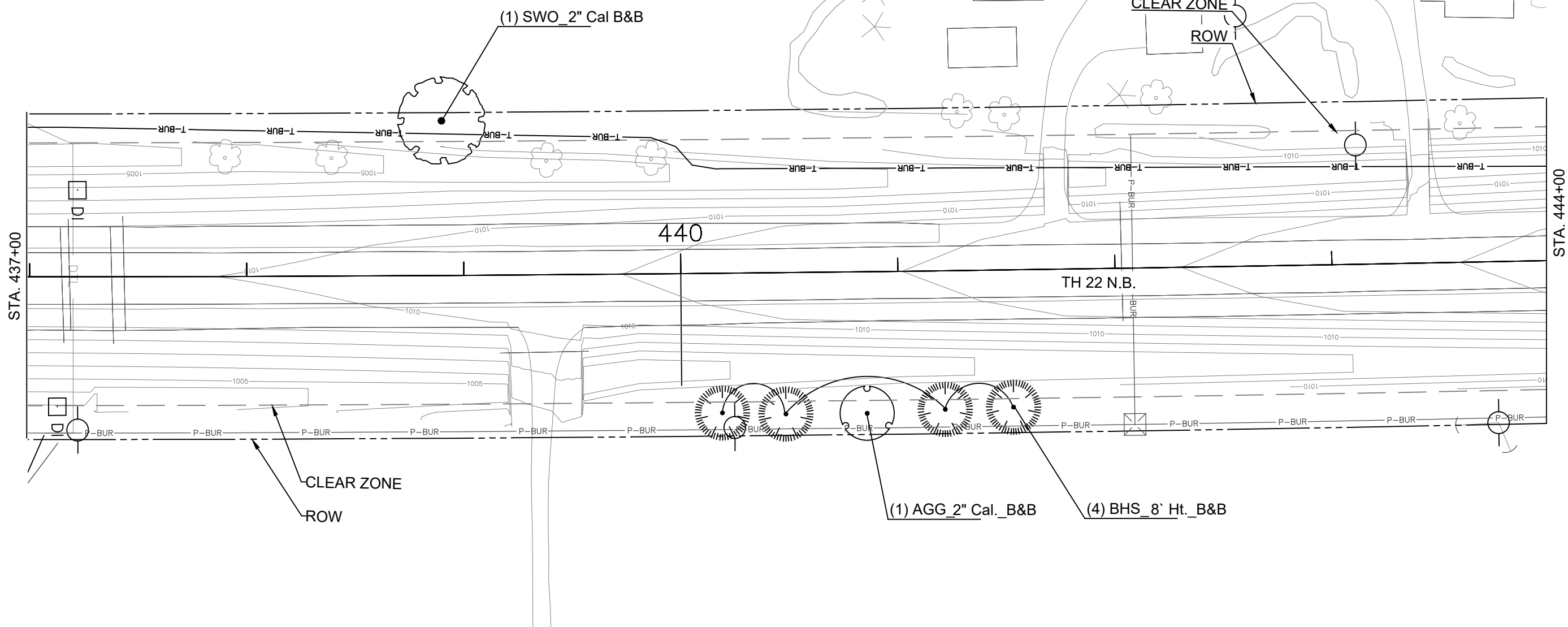
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DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

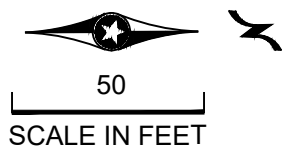


KEY	SPECIES	QUANT.	SPACING
AGG_2"	MAIDENHAIR TREE	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	4	AS SHOWN
SWO_2"	OAK, SWAMP WHITE	1	AS SHOWN



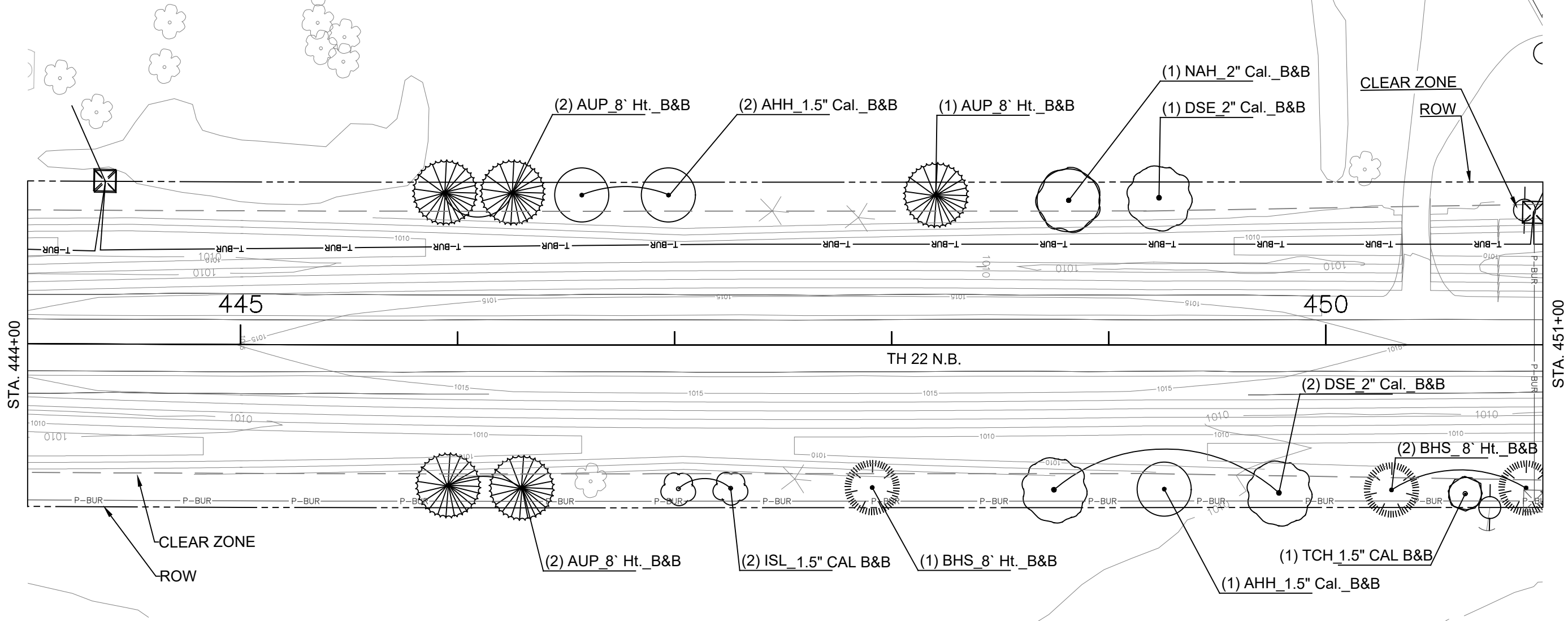
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



DATE: _____
 FILENAME: _____
 TIME: _____

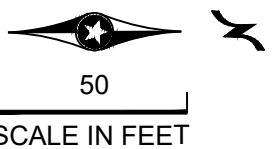
KEY	SPECIES	QUANT.	SPACING
AHH_1.5"	HOPHORNBEAM, AMERICAN	3	AS SHOWN
AUP_8'	PINE, AUSTRIAN	5	AS SHOWN
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	1	AS SHOWN
DSE_2"	ELM, DISCOVERY	3	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	3	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	1	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE	2	AS SHOWN



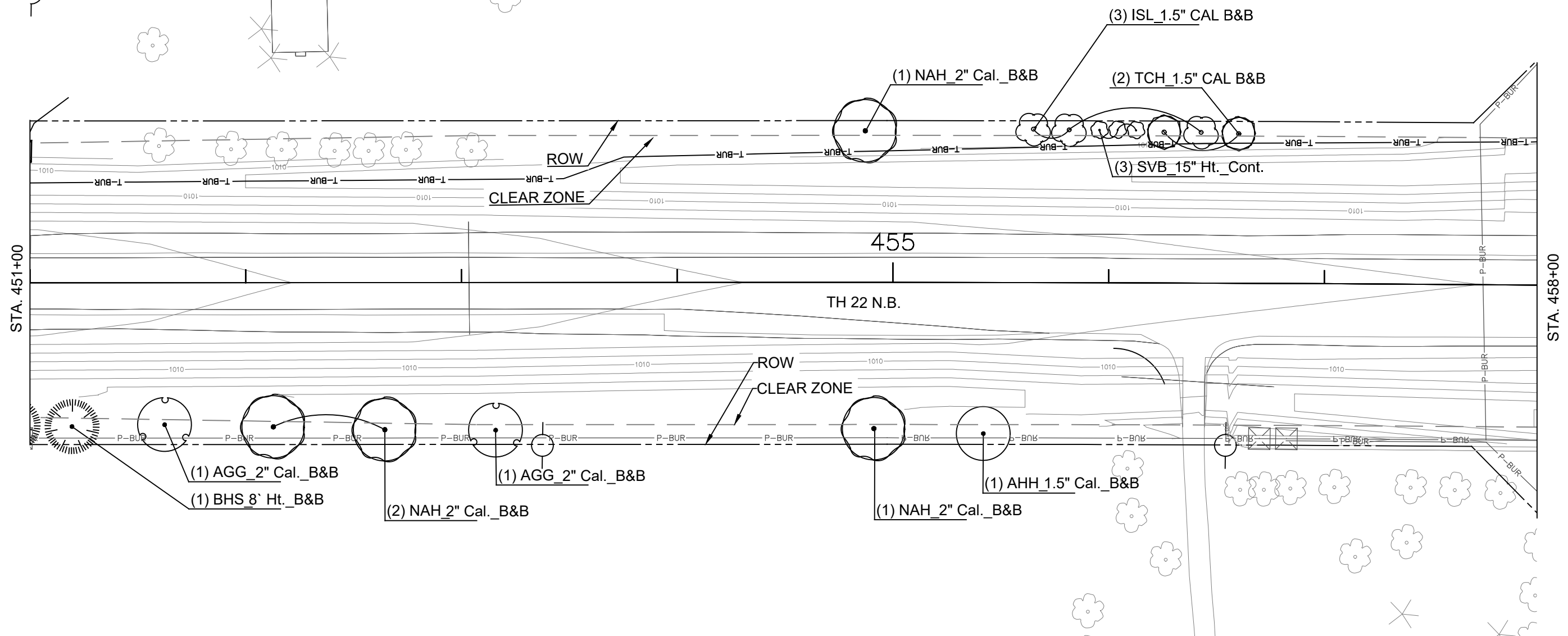
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE	G	RIGHT OF WAY	
BURIED FIBER OPTIC LINE	F/O-BUR	CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE	T-BUR	TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE	DTL		



KEY	SPECIES	QUANT.	SPACING
AHH_1.5"	HOPHORNBEAM, AMERICAN	1	AS SHOWN
SVB_15" HT CONT	SPIRAEA, BRIDALWREATH	3	AS SHOWN
AGG_2"	MAIDENHAIR TREE	2	AS SHOWN
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	4	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	1	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	2	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE	3	AS SHOWN

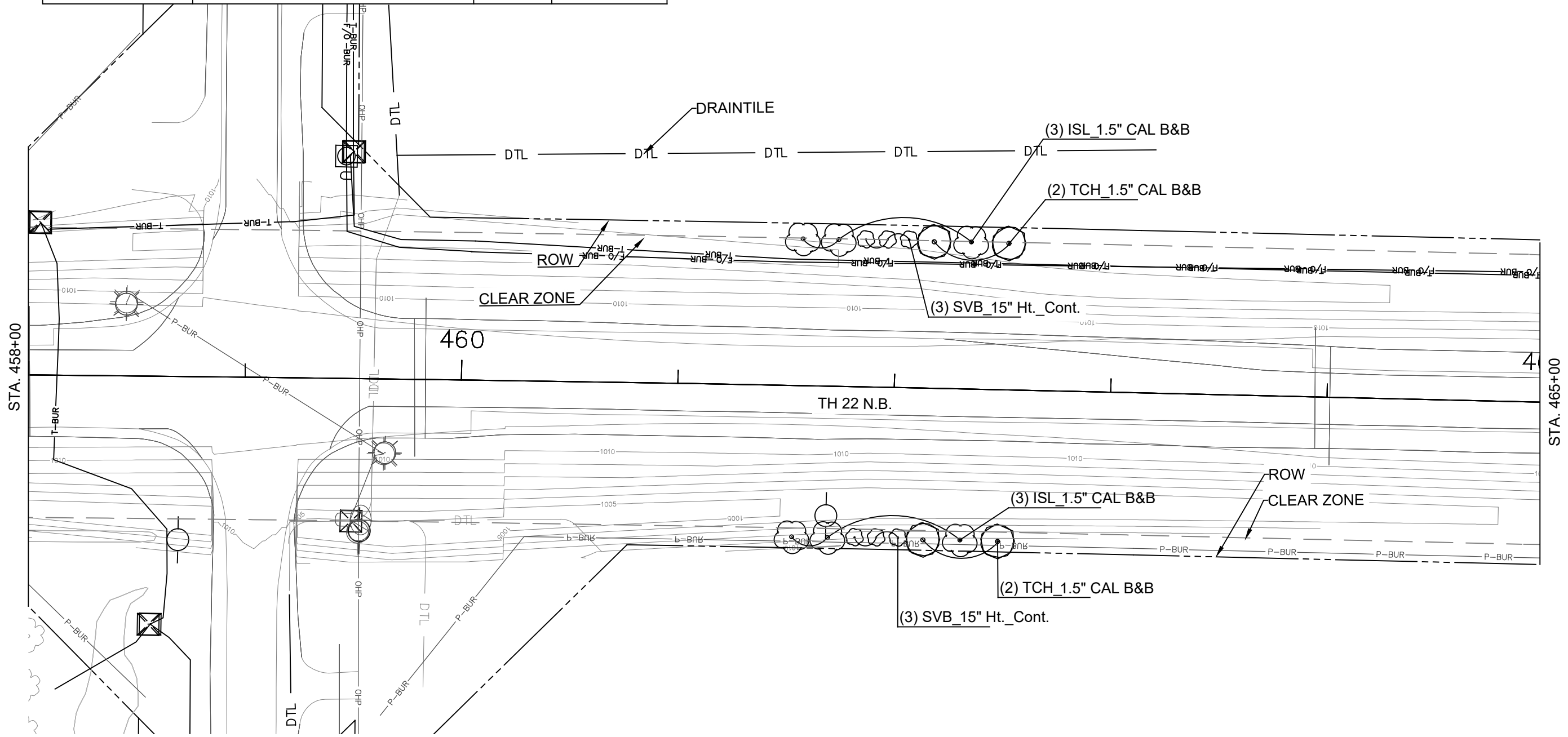


LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			

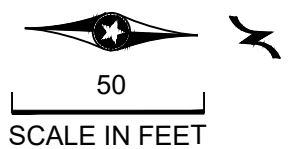
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KEY	SPECIES	QUANT.	SPACING
SVB_15" HT CONT	SPIRAEA, BRIDALWREATH	6	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	4	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK JAPANESE TREE	6	AS SHOWN



LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



DATE: _____
 TIME: _____
 FILENAME: _____

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 REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: _____
 PRINTED NAME: CANDACE C. AMBERG
 DATE: 04/03/2018 LIC. NO. 40646



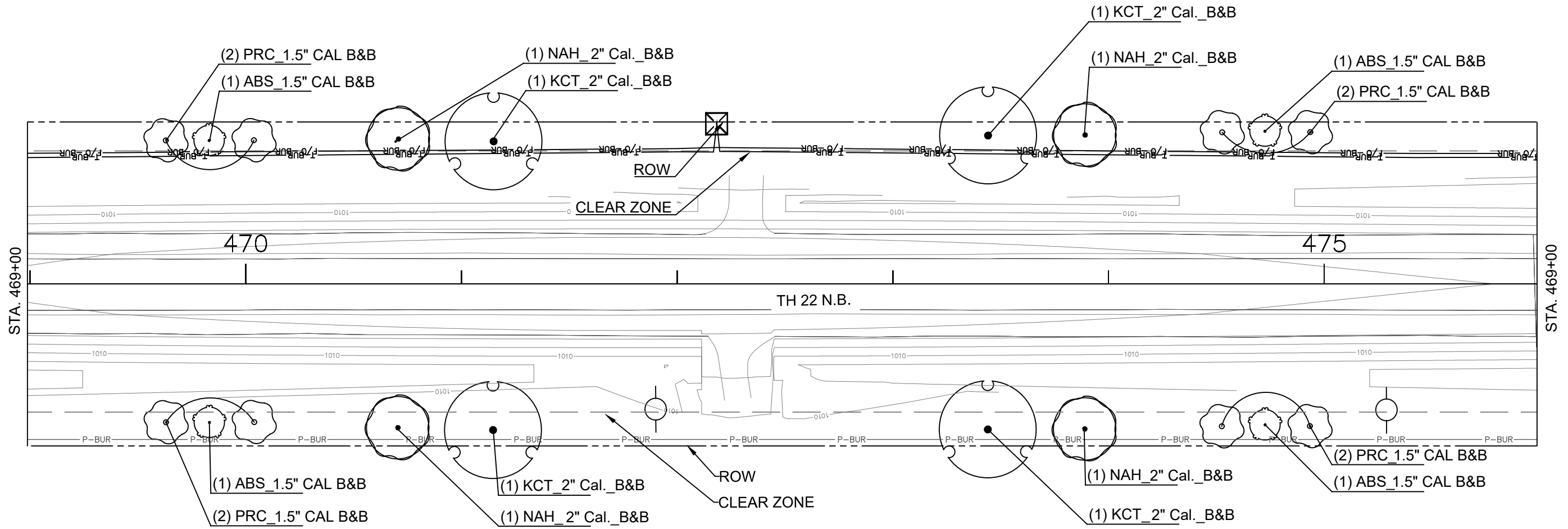
MINNESOTA DEPARTMENT OF TRANSPORTATION
 TH 22 LANDSCAPING FROM THE
 CITY OF MAPLETON TO MANKATO



LANDSCAPE PLAN

STATE PROJ.NO. 0704-110(T.H. 22)
 Sheet No. 89 of 131 Sheets

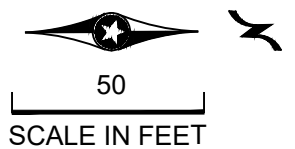
KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	4	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	8	AS SHOWN
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	4	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	4	AS SHOWN



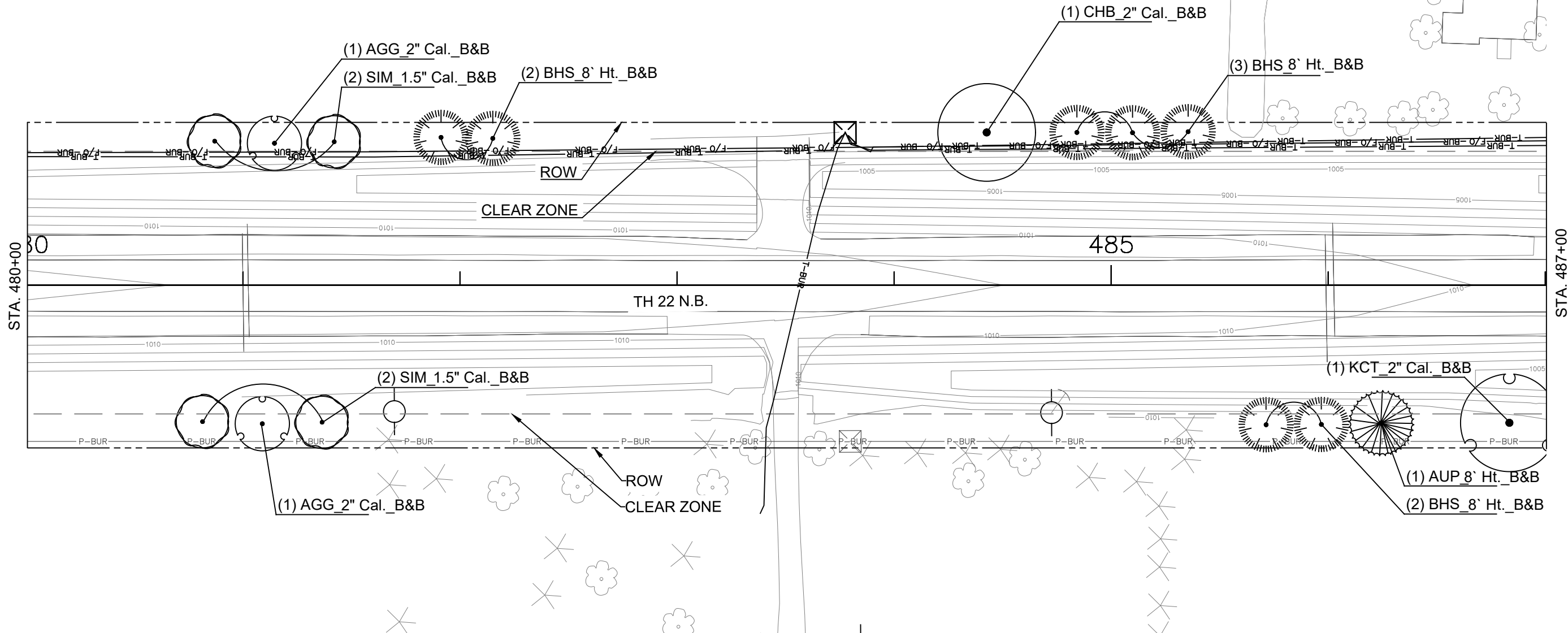
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LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			

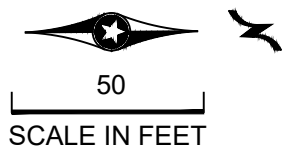


KEY	SPECIES	QUANT.	SPACING
AGG_2"	MAIDENHAIR TREE	2	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	7	AS SHOWN
SIM_1.5"	MAPLE, SIENNA GLEN	4	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	1	AS SHOWN
CHB_2"	HACKBERRY, COMMON	1	AS SHOWN
AUP_8'	PINE, AUSTRIAN	1	AS SHOWN



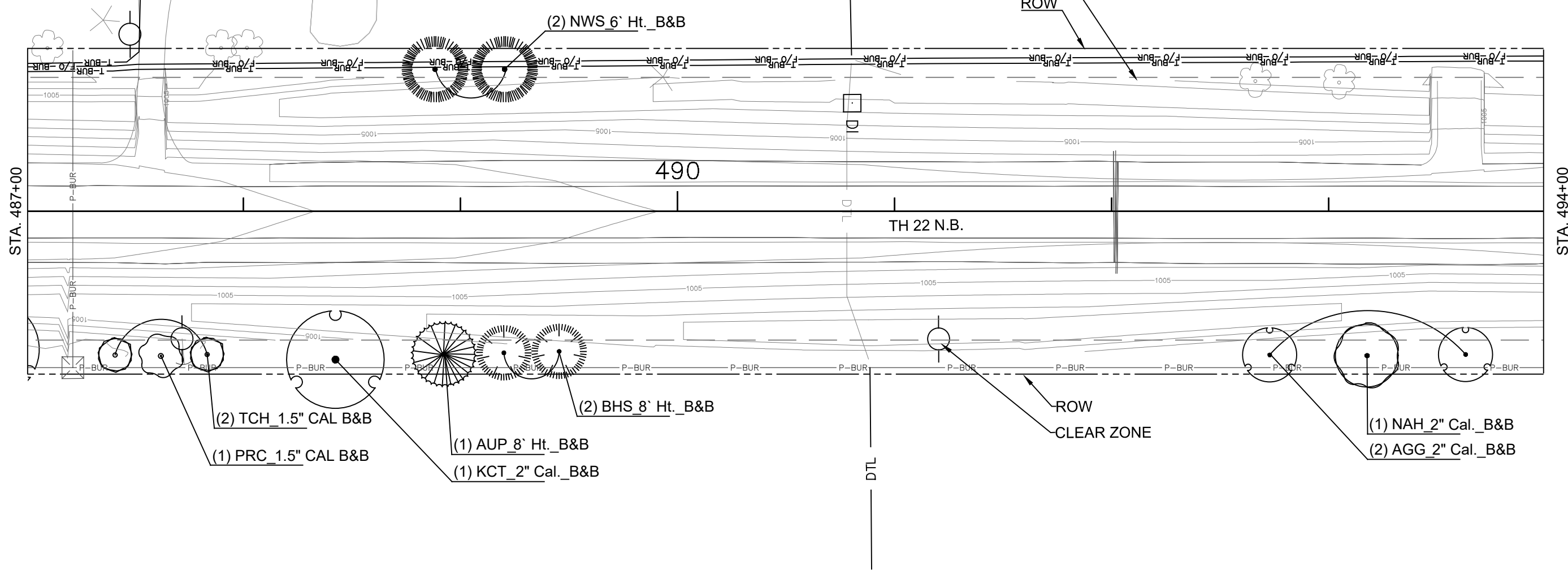
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



TIME:
DATE:
FILENAME:

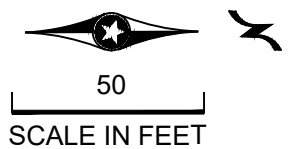
KEY	SPECIES	QUANT.	SPACING
AGG_2"	MAIDENHAIR TREE	2	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	2	AS SHOWN
AUP_8'	PINE, AUSTRIAN	1	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	1	AS SHOWN
NAH_2"	HONEY LOCUST, NORTHERN ACCLAIM THORNLESS	1	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	2	AS SHOWN
NWS_6'	SPRUCE, NORWAY	2	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	1	AS SHOWN



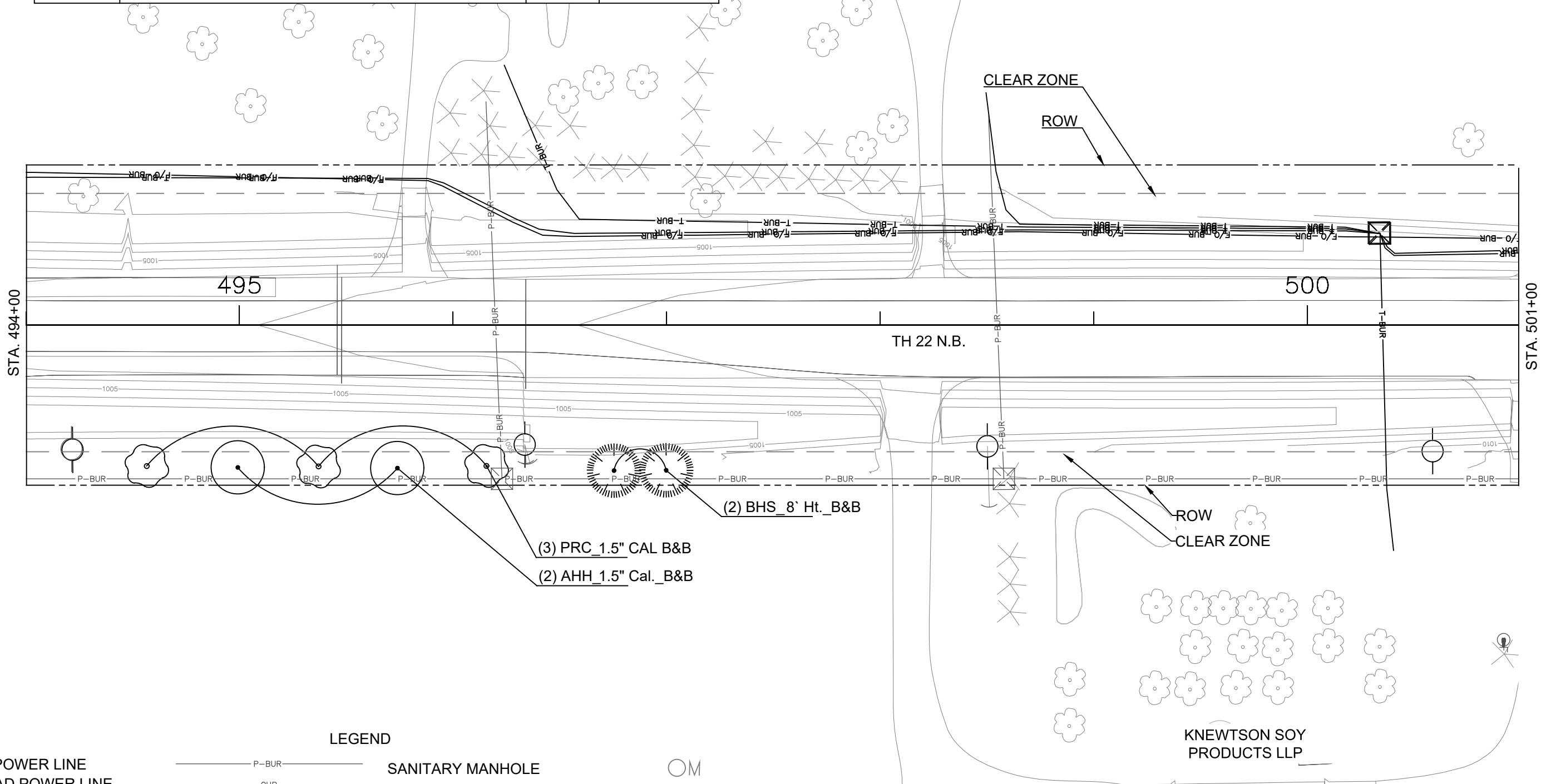
DATE: _____
 TIME: _____
 FILENAME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



KEY	SPECIES	QUANT.	SPACING
AHH_1.5"	HOPHORNBEAM, AMERICAN	2	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	2	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	3	AS SHOWN

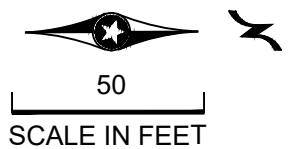


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DATE:
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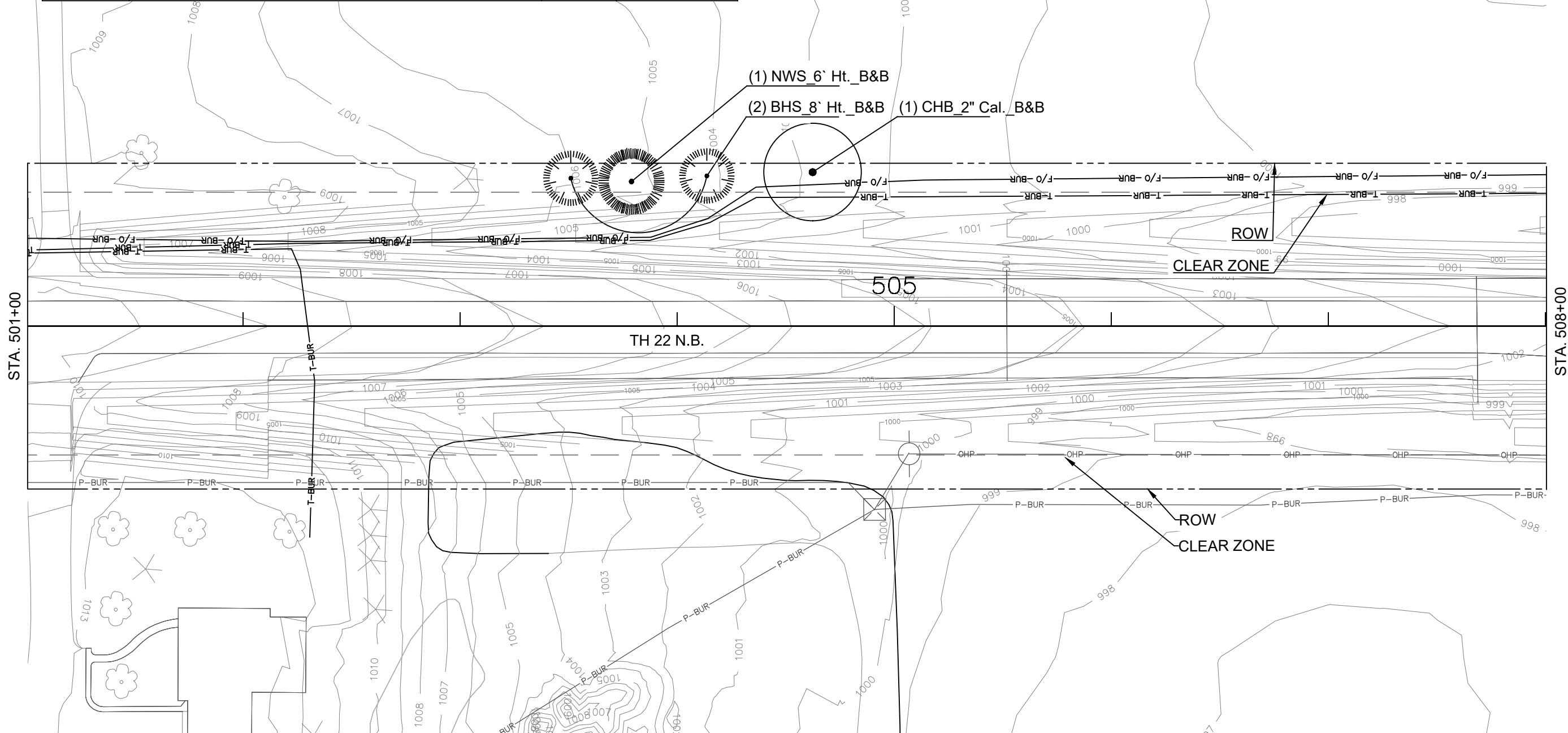
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			

KNEWTSON SOY PRODUCTS LLP

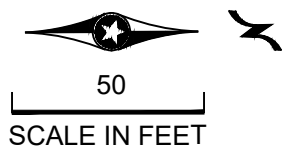


KEY	SPECIES	QUANT.	SPACING
NWS_6'	SPRUCE, NORWAY	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	2	AS SHOWN
CHB_2"	HACKBERRY, COMMON	1	AS SHOWN



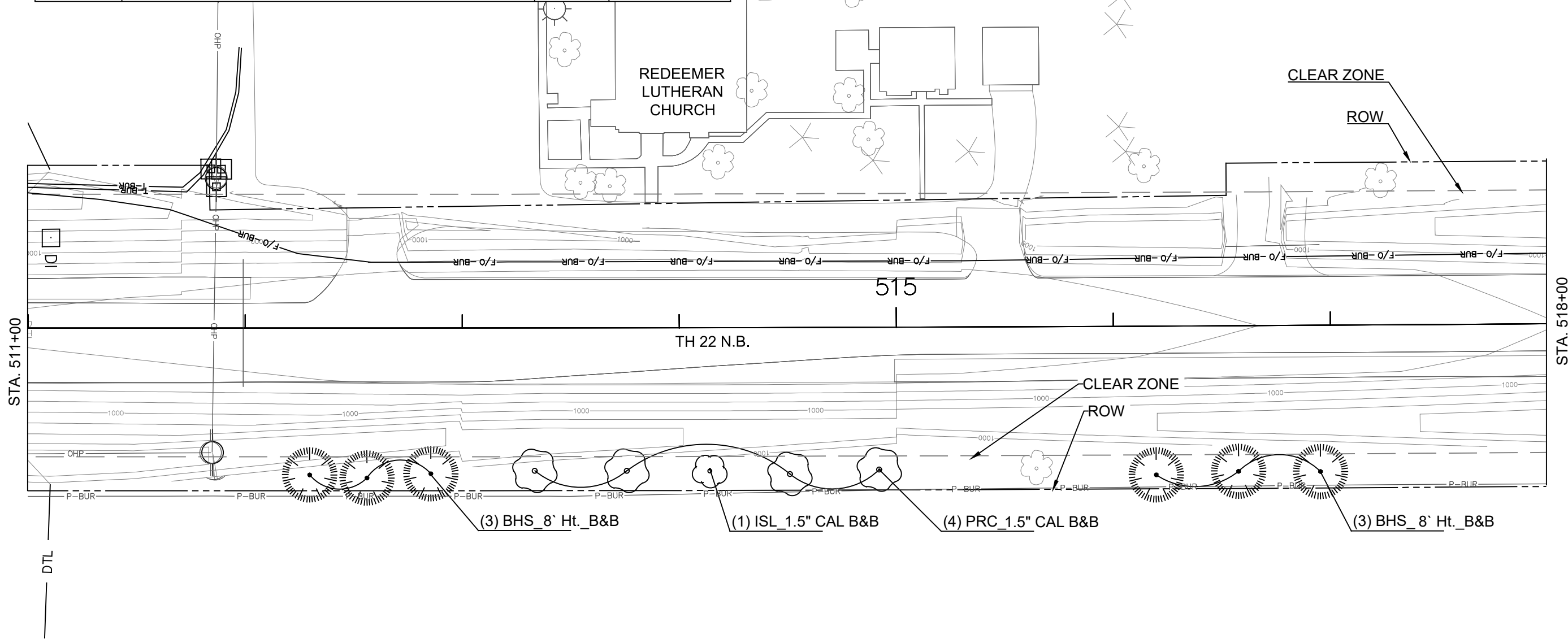
LEGEND

BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE	G	RIGHT OF WAY	
BURIED FIBER OPTIC LINE	F/O-BUR	CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE	T-BUR	TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE	DTL		



DATE: _____
 FILENAME: _____
 TIME: _____

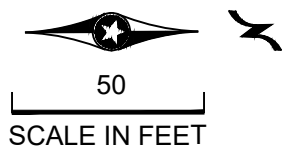
KEY	SPECIES	QUANT.	SPACING
ISL_1.5"	LILAC, IVORY SILK	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	6	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	4	AS SHOWN



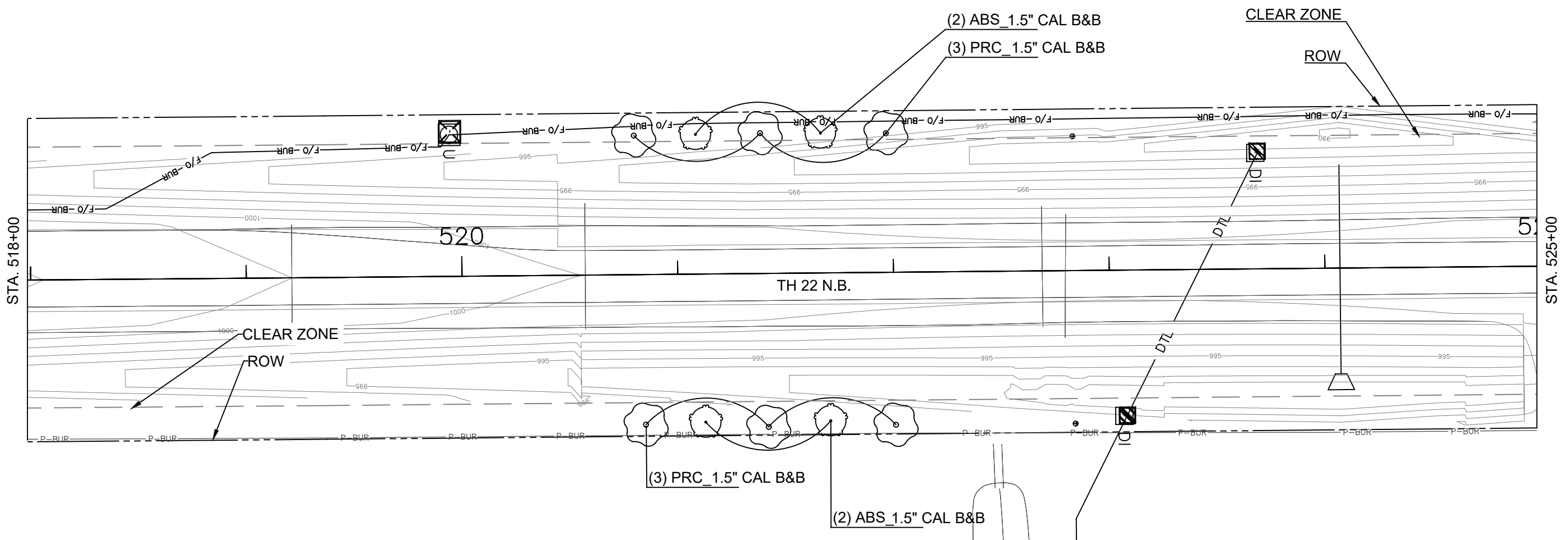
DATE: _____
 FILENAME: _____
 TIME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			

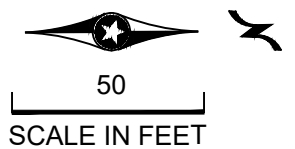


KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	4	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	6	AS SHOWN



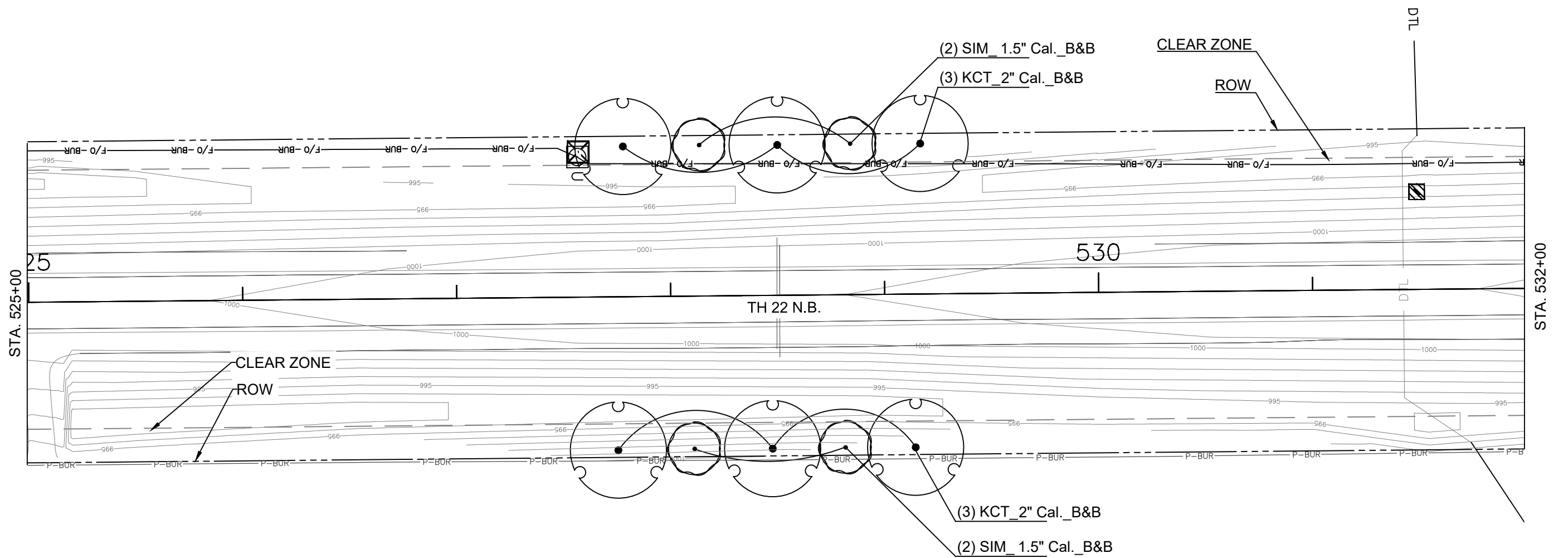
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



TIME:
DATE:
FILENAME:

KEY	SPECIES	QUANT.	SPACING
KCT_2"	COFFEETREE, KENTUCKY	6	AS SHOWN
SIM_1.5"	MAPLE, SIENNA GLEN	4	AS SHOWN



DATE: _____
 TIME: _____
 FILENAME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



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 REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: _____
 PRINTED NAME: CANDACE C. AMBERG
 DATE: 04/03/2018 LIC. NO. 40646



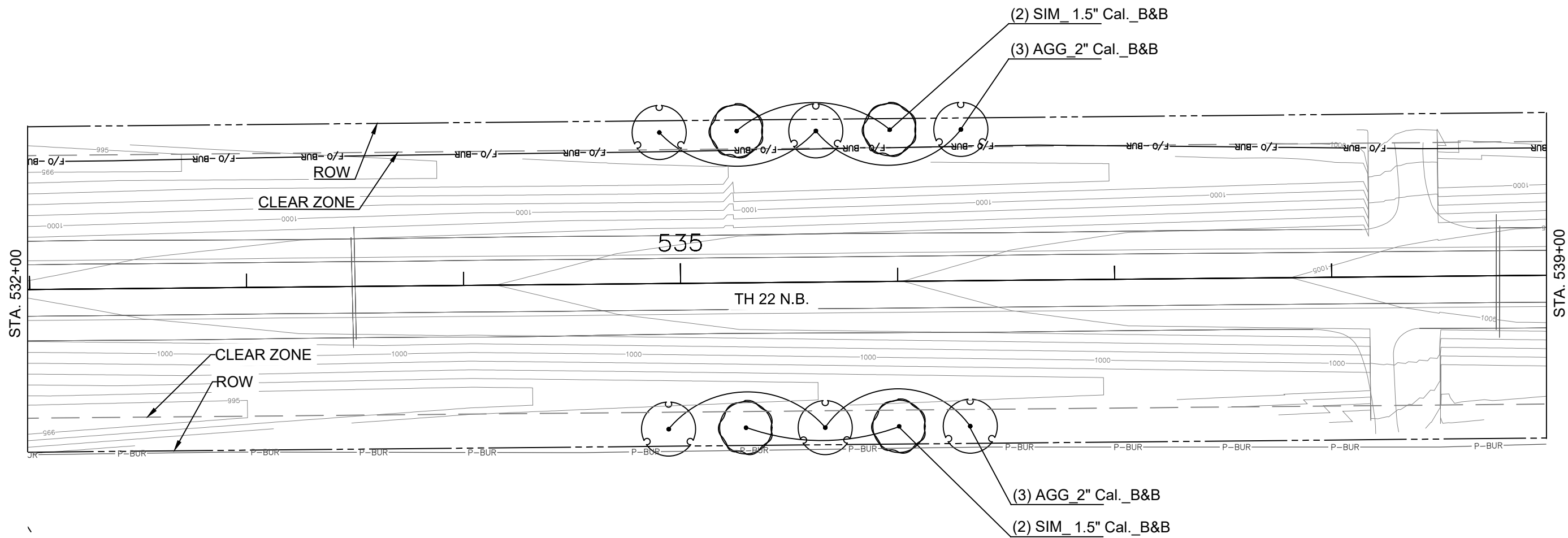
MINNESOTA DEPARTMENT OF TRANSPORTATION
 TH 22 LANDSCAPING FROM THE
 CITY OF MAPLETON TO MANKATO



LANDSCAPE PLAN

STATE PROJ.NO. 0704-110(T.H. 22)
 Sheet No. 97 of 131 Sheets

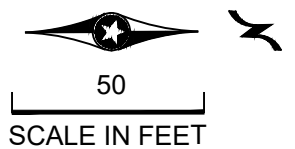
KEY	SPECIES	QUANT.	SPACING
AGG_2"	GINGKO, MAIDENHAIR TREE	6	AS SHOWN
SIM_1.5"	MAPLE, SIENNA GLEN	4	AS SHOWN



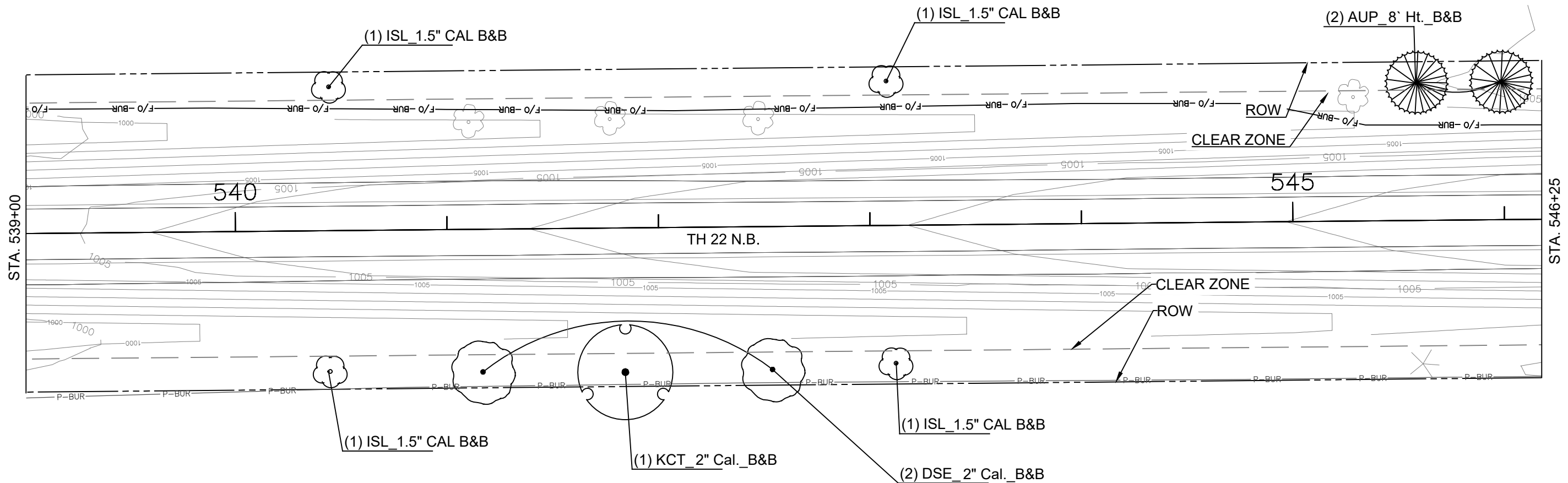
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DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



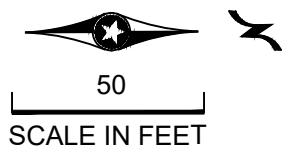
KEY	SPECIES	QUANT.	SPACING
AUP_8'	PINE, AUSTRIAN	2	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK	4	AS SHOWN
DSE_2"	ELM, DISCOVERY	2	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	1	AS SHOWN



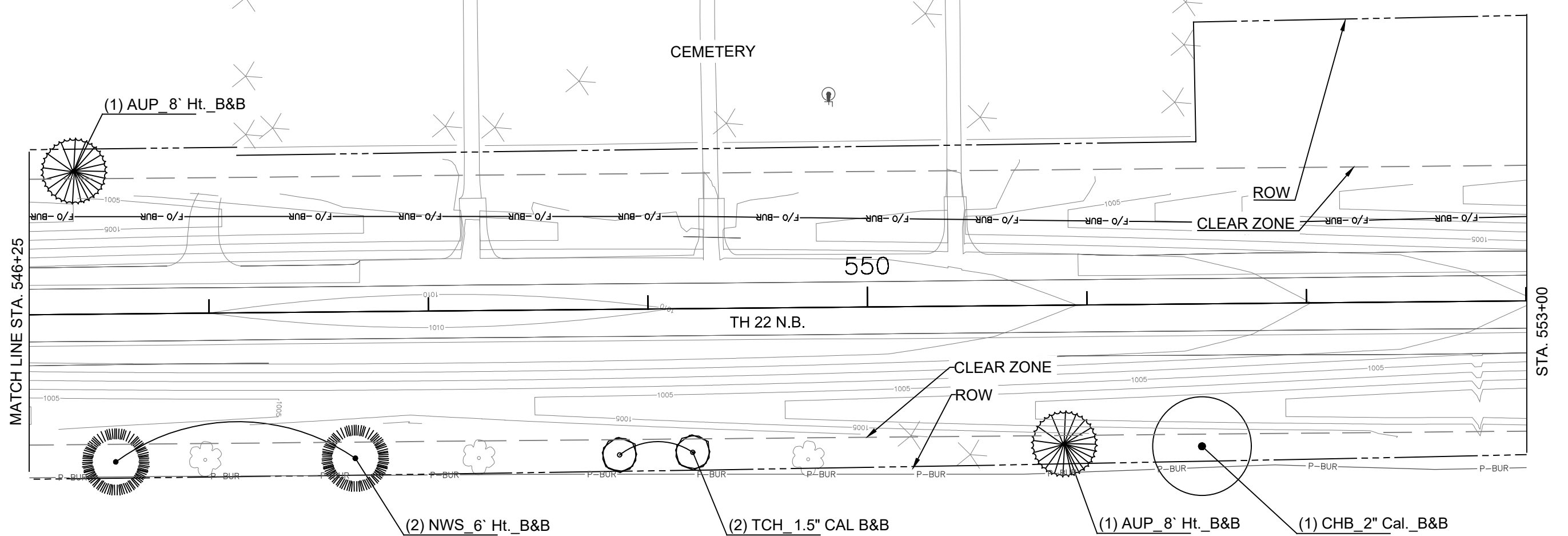
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊠	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		



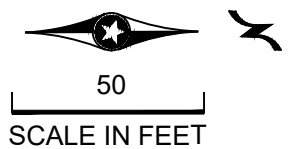
KEY	SPECIES	QUANT.	SPACING
AUP_8'	PINE, AUSTRIAN	2	AS SHOWN
CHB_2"	HACKBERRY, COMMON	1	AS SHOWN
NWS_6'	SPRUCE, NORWAY	2	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	2	AS SHOWN



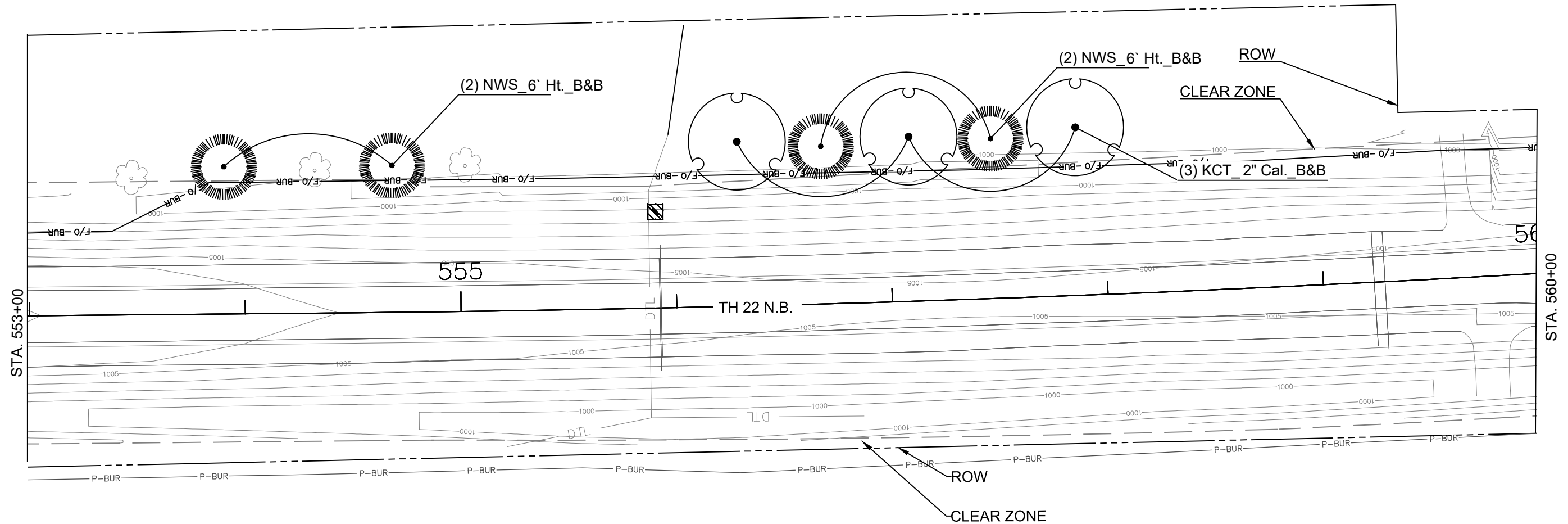
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



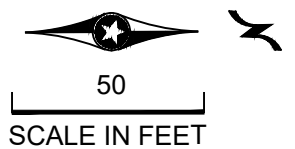
KEY	SPECIES	QUANT.	SPACING
NSW_6'	SPRUCE, NORWAY	4	AS SHOWN
KCT_2"	COFFEETREE, KENTUCKY	3	AS SHOWN



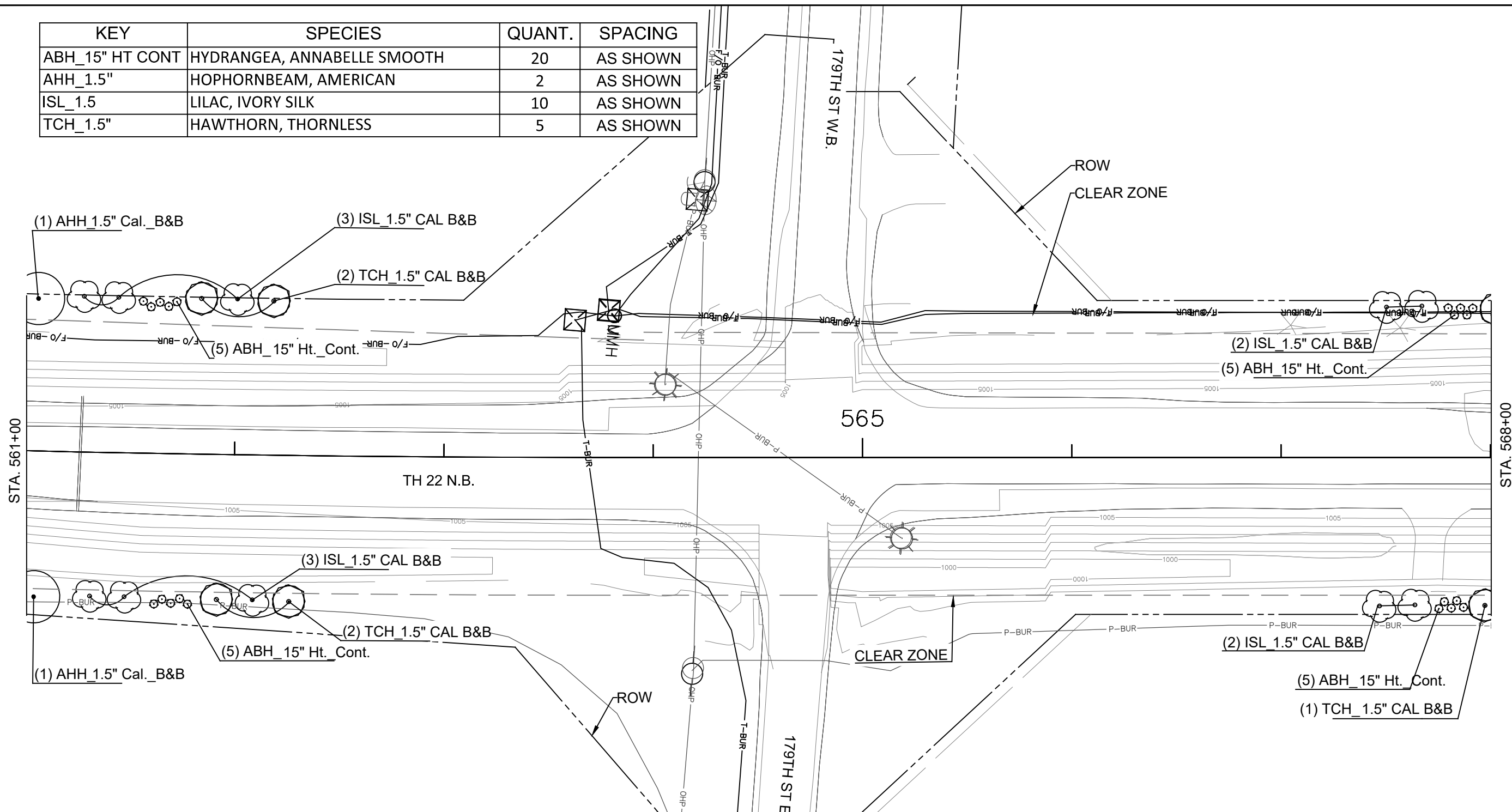
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



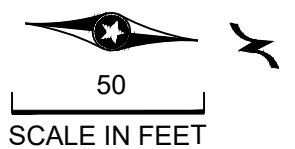
KEY	SPECIES	QUANT.	SPACING
ABH_15" HT CONT	HYDRANGEA, ANNABELLE SMOOTH	20	AS SHOWN
AHH_1.5"	HOPHORNBEAM, AMERICAN	2	AS SHOWN
ISL_1.5	LILAC, IVORY SILK	10	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	5	AS SHOWN



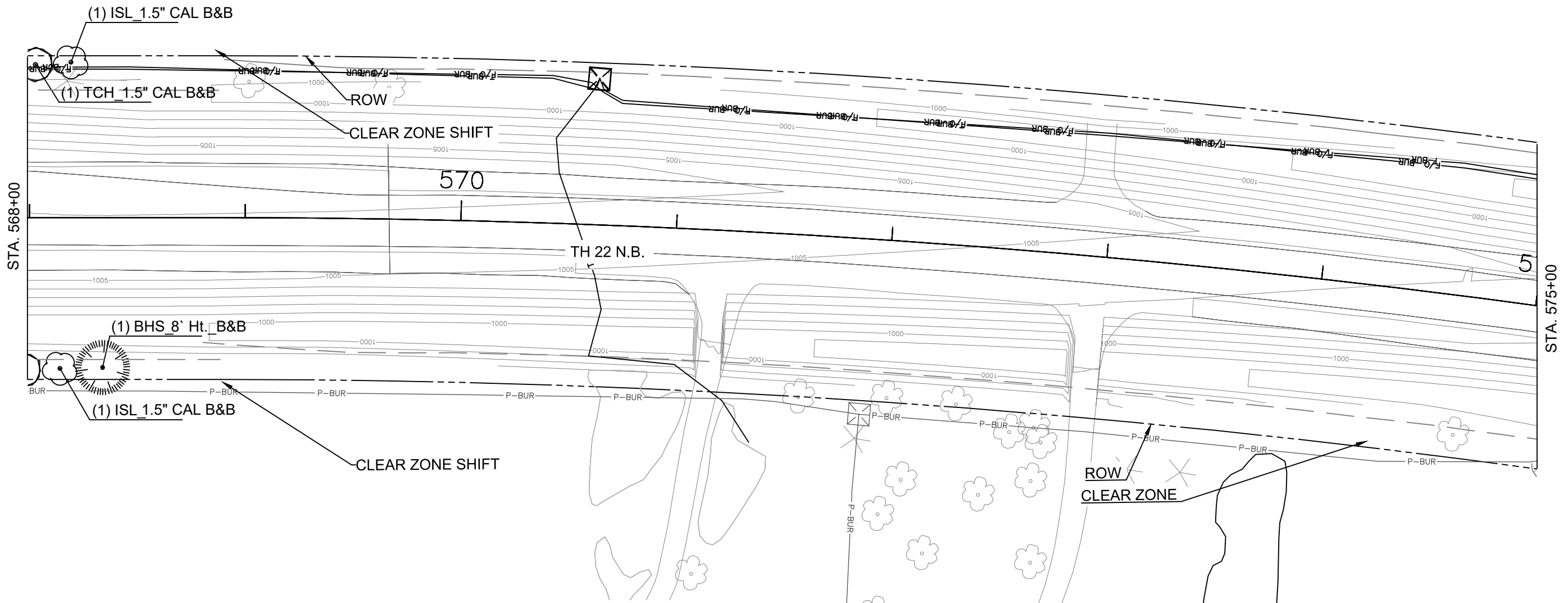
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE	P-BUR	SANITARY MANHOLE	OM
OVERHEAD POWER LINE	OHP	BURIED WATER LINE	
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	-G-	RIGHT OF WAY	---
BURIED FIBER OPTIC LINE	F/O-BUR	CONSTRUCTION LIMITS	---
BURIED COMMUNICATION LINE	T-BUR	TEMPORARY EASEMENT	---
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	---
BURIED SANITARY SEWER	---	OR PERMANENT EASEMENT	---
DRAINAGE PIPE INPLACE	DTL		



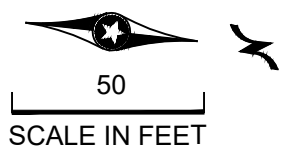
KEY	SPECIES	QUANT.	SPACING
TCH_1.5	HAWTHORN, THORNLESS	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	1	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK	2	AS SHOWN



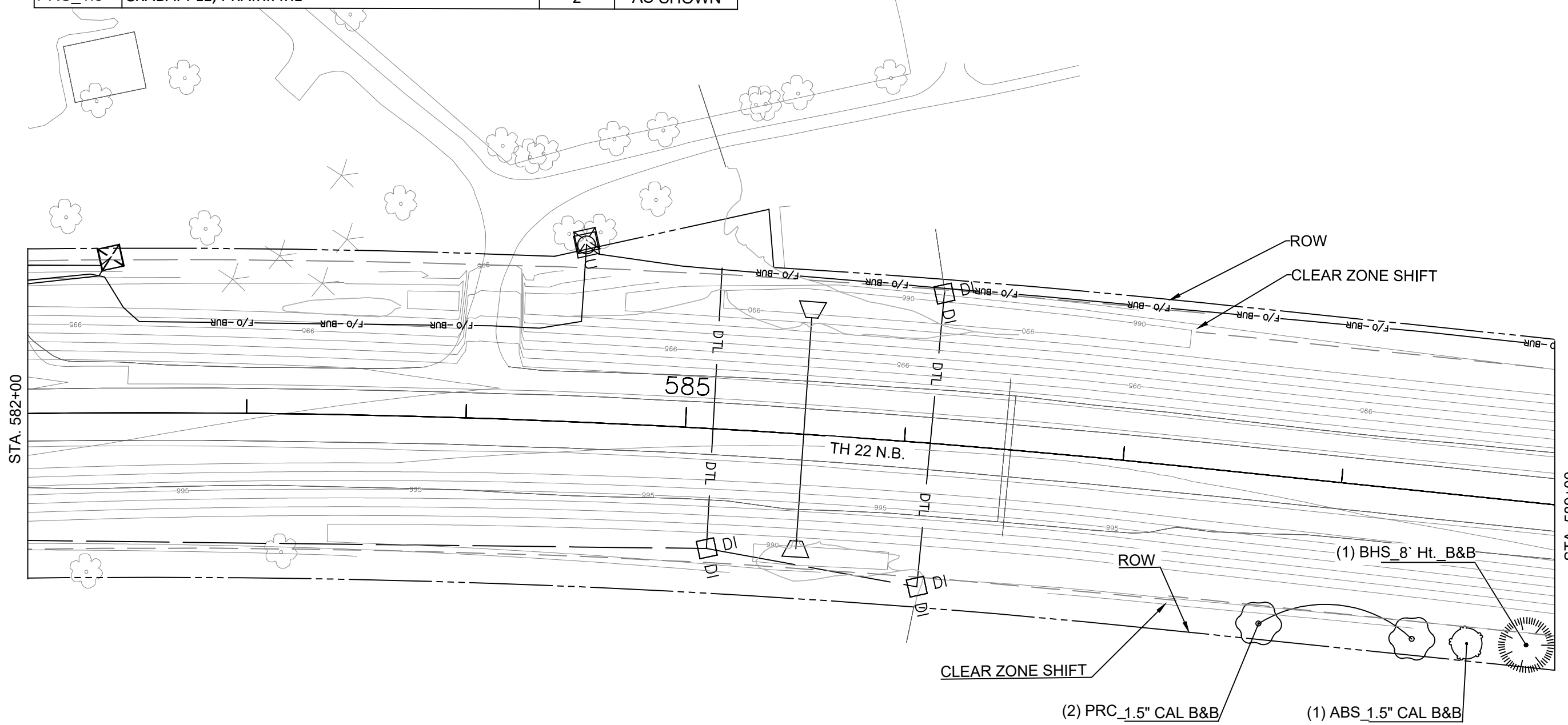
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			



KEY	SPECIES	QUANT.	SPACING
ABS_1.5"	SERVICEBERRY, AUTUMN BRILLIANCE	1	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	1	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIFIRE	2	AS SHOWN

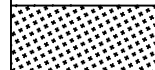


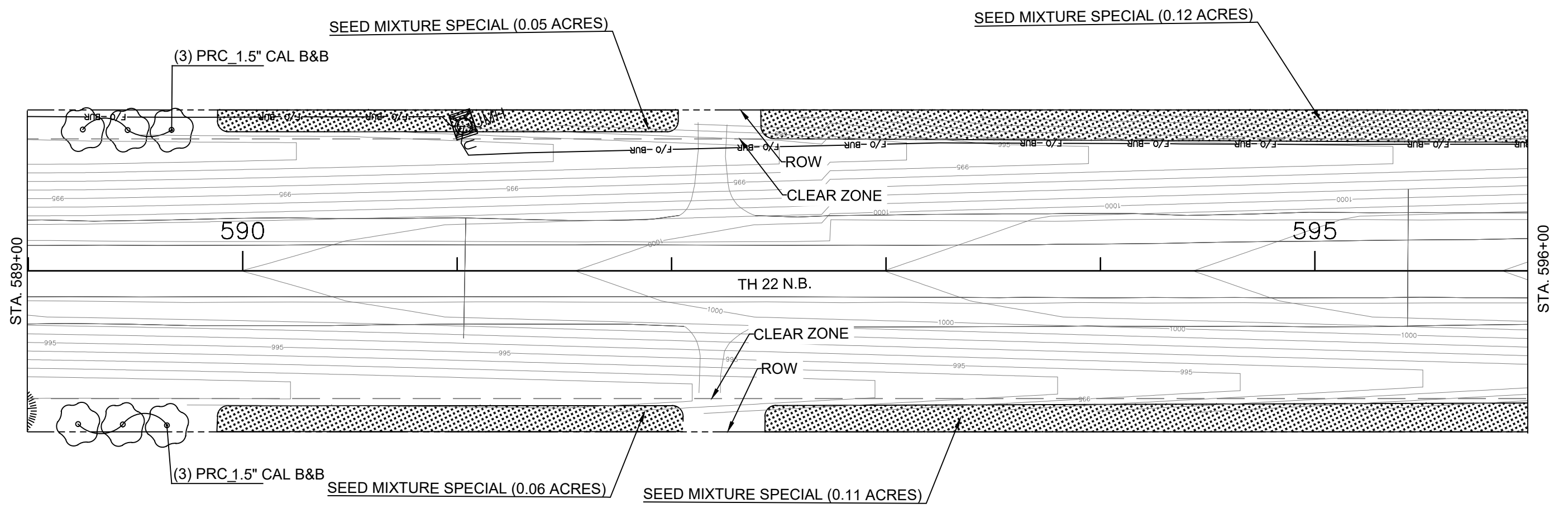
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DATE:
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LEGEND

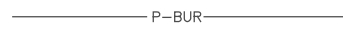

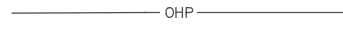
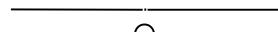



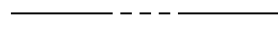
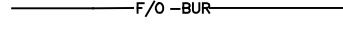

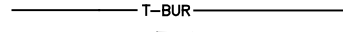
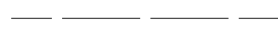




BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ OM
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— — —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · — · —
COMMUNICATION PEDESTAL	⊠	NEW RIGHT-OF-WAY	— · — · —
BURIED SANITARY SEWER	— — —	OR PERMANENT EASEMENT	— · — · —
DRAINAGE PIPE INPLACE	— DTL —		

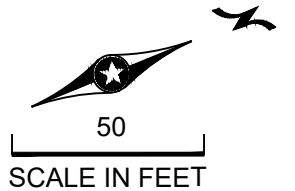


KEY	SPECIES	QUANT.	SPACING
PRC_1.5"	CRABAPPLE, PRARIFIRE	6	AS SHOWN
	SEED MIXTURE SPECIAL	0.34	ACRES

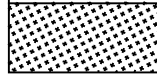


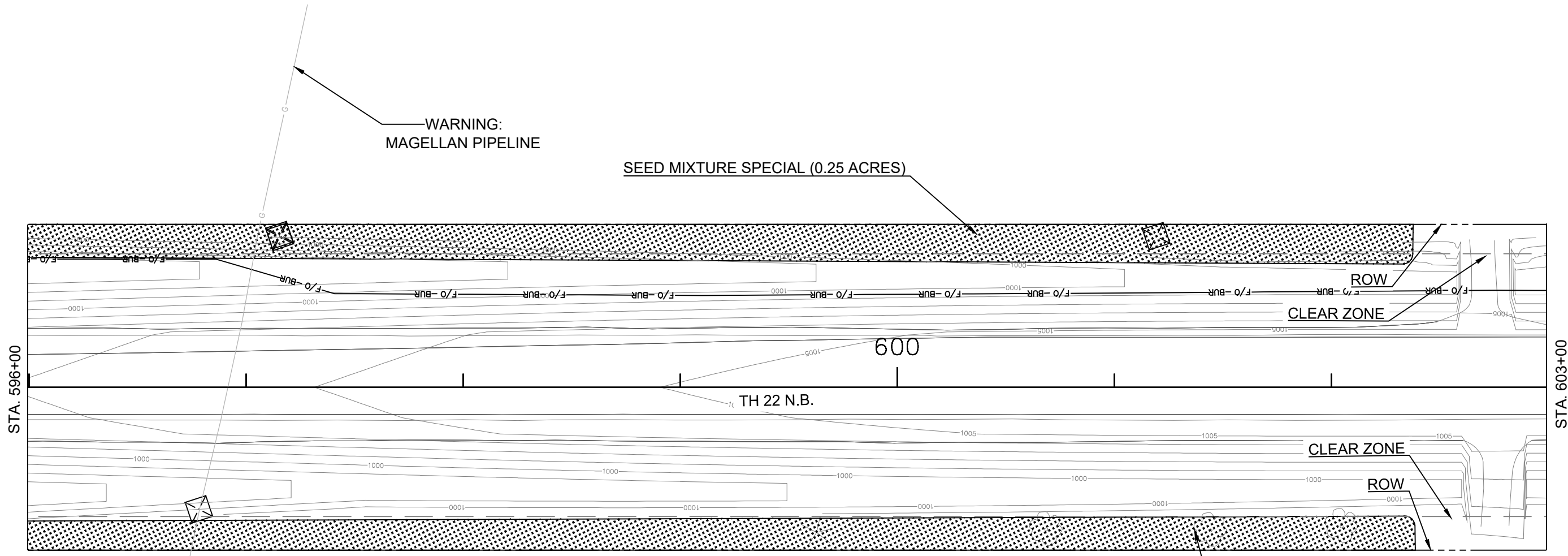
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



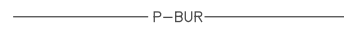

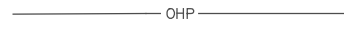
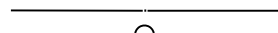



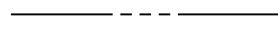
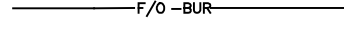
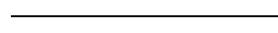
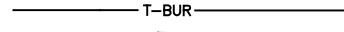
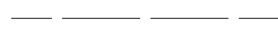




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DATE:
FILENAME:

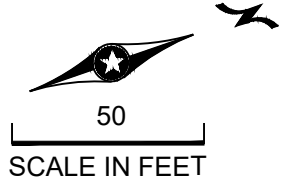
KEY	SPECIES	QUANT.	SPACING
	SEED MIXTURE SPECIAL	0.46	ACRES



WARNING
HIGH-PRESSURE PIPELINE(S)
 Excavation and/or Construction Prohibited
 Without compliance with State One-Call, AND
 Without Written Permission From
MAGELLAN PIPELINE COMPANY, L.P.

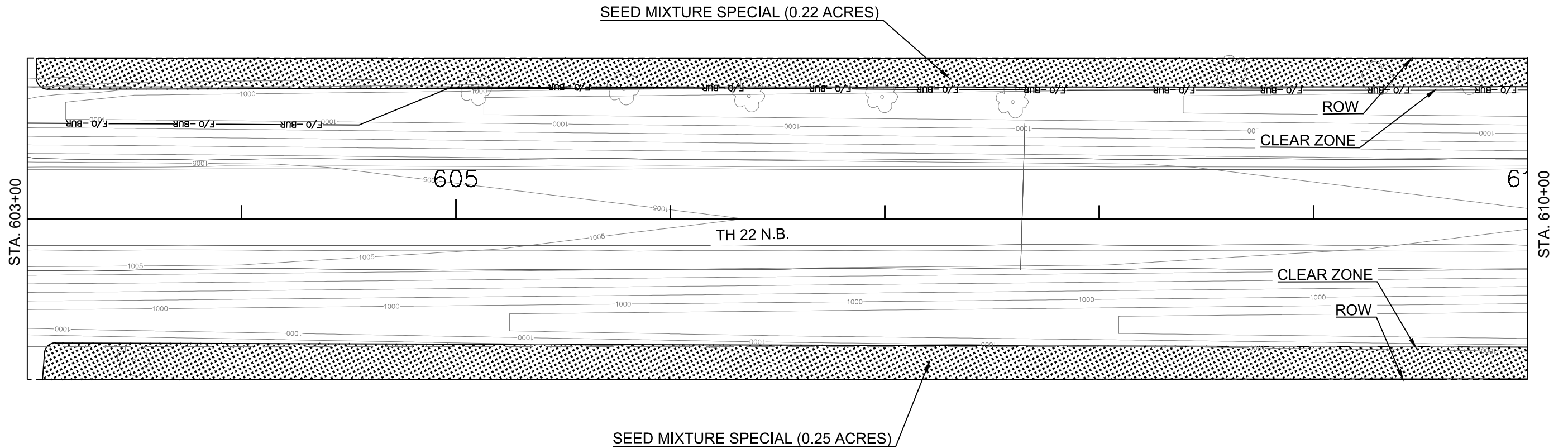
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



DATE: _____ TIME: _____
 FILENAME: _____

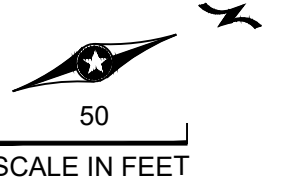
KEY	SPECIES	QUANT.	SPACING
	SEED MIXTURE SPECIAL	0.47	ACRES



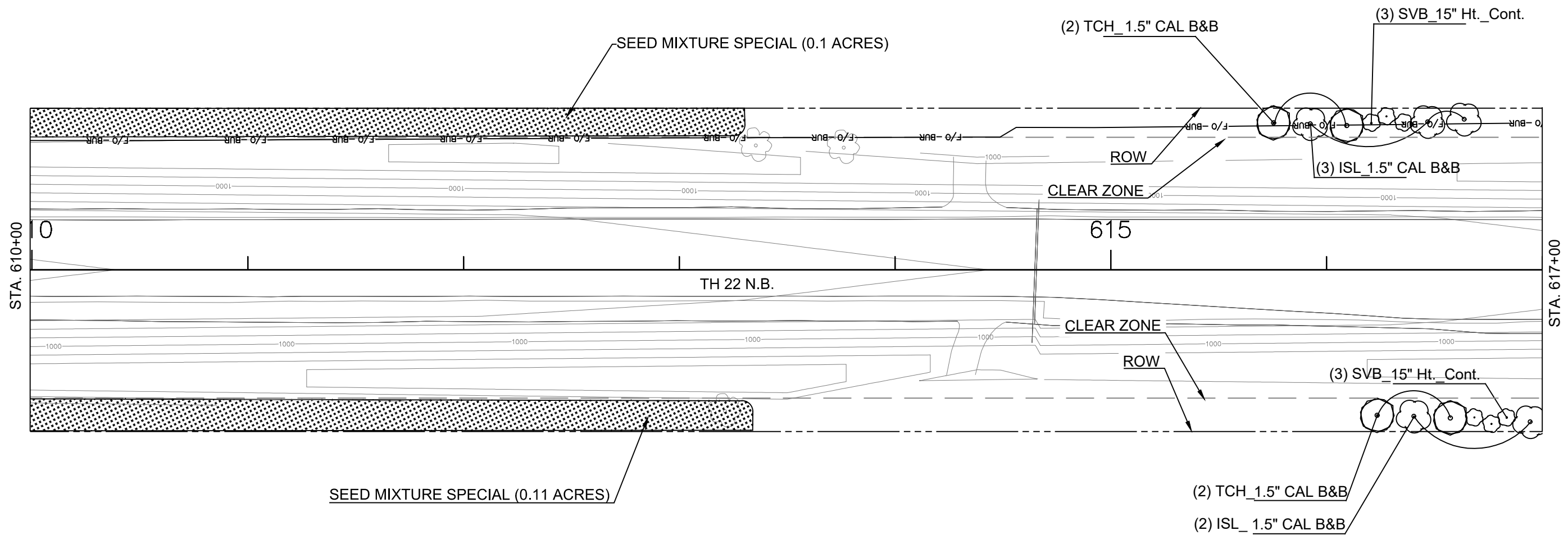
TIME:
DATE:
FILENAME:

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY	
BURIED SANITARY SEWER		OR PERMANENT EASEMENT	
DRAINAGE PIPE INPLACE			

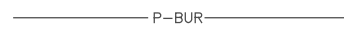

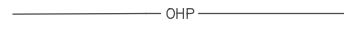
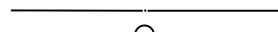


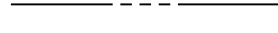
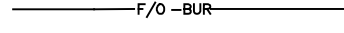
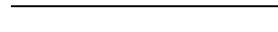
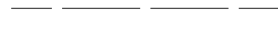



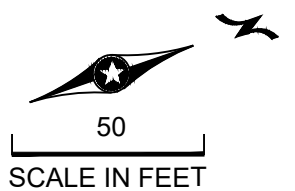
KEY	SPECIES	QUANT.	SPACING
TCH_1.5'	HAWTHORN, THORNLESS	4	AS SHOWN
ISL_1. "	LILAC, IVORY SILK	5	AS SHOWN
SVB_15" HT CONT	SPIRAEA, BRIDALWREATH	6	AS SHOWN
	SEED MIXTURE SPECIAL	0.21	ACRES



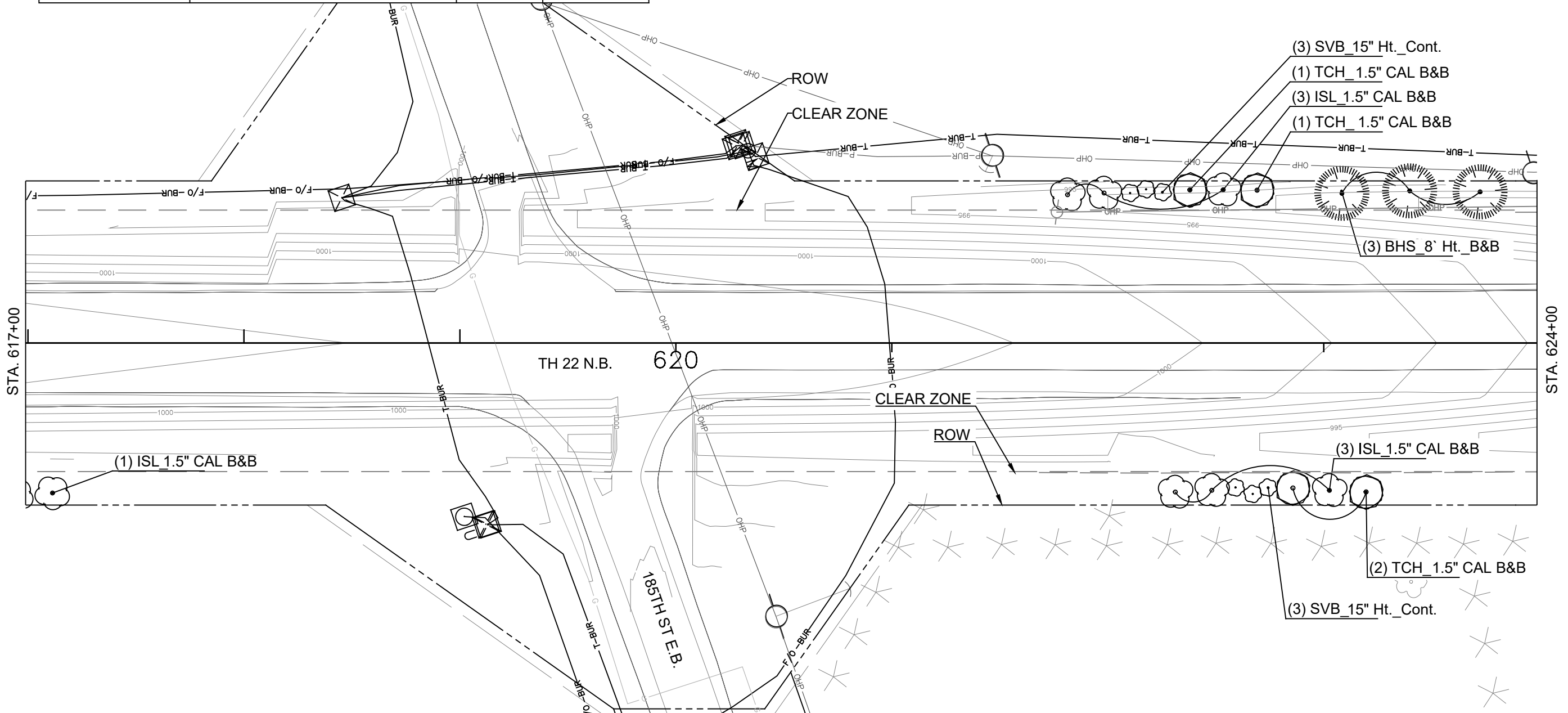
DATE: _____
 TIME: _____
 FILENAME: _____

LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



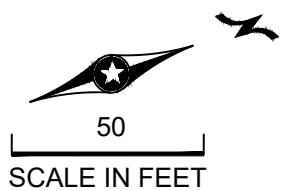
KEY	SPECIES	QUANT.	SPACING
SVB_15" HT CONT	SPIRAEA, BRIDALWREATH	6	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	3	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK	7	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	4	AS SHOWN



TIME:
DATE:
FILENAME:

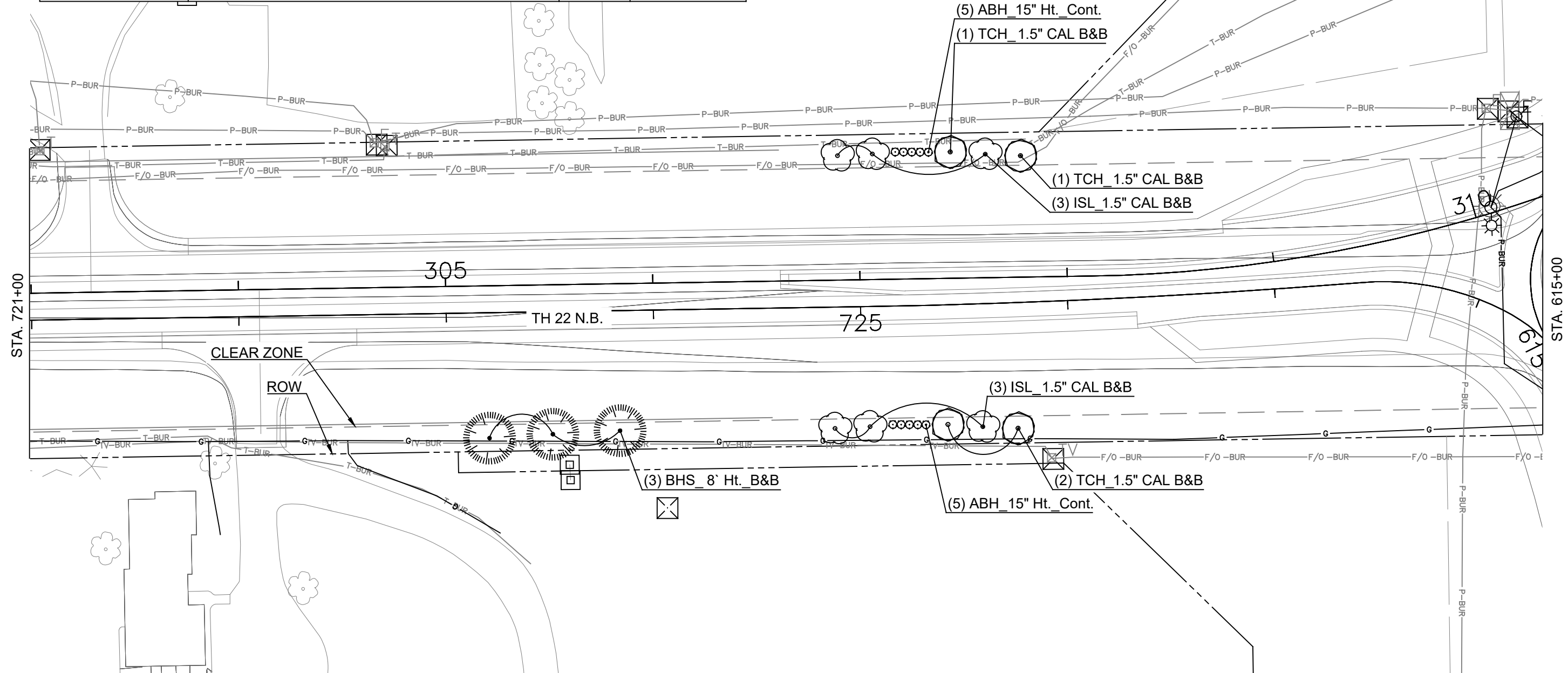
LEGEND

BURIED POWER LINE	— P-BUR —	SANITARY MANHOLE	○ M
OVERHEAD POWER LINE	— OHP —	BURIED WATER LINE	— W-BUR —
POWER POLE	○	WATER HYDRANT	⊕
BURIED GAS LINE	— G —	RIGHT OF WAY	— — — — —
BURIED FIBER OPTIC LINE	— F/O-BUR —	CONSTRUCTION LIMITS	— — — — —
BURIED COMMUNICATION LINE	— T-BUR —	TEMPORARY EASEMENT	— · · · · ·
COMMUNICATION PEDESTAL	⊗	NEW RIGHT-OF-WAY	— — — — —
BURIED SANITARY SEWER	— S-BUR —	OR PERMANENT EASEMENT	— — — — —
DRAINAGE PIPE INPLACE	— DTL —		



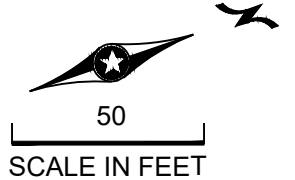
KEY	SPECIES	QUANT.	SPACING
ABH_15" HT CONT	HYDRANGEA, ANNABELLE SMOOTH	10	AS SHOWN
BHS_8'	SPRUCE, BLACK HILLS	3	AS SHOWN
ISL_1.5"	LILAC, IVORY SILK	6	AS SHOWN
TCH_1.5"	HAWTHORN, THORNLESS	4	AS SHOWN

NOTE:
INLET CONTROL TO BE PLACED IN ALL CATCH BASINS
PRIOR TO PLANTING WORK IN ROUNDABOUT



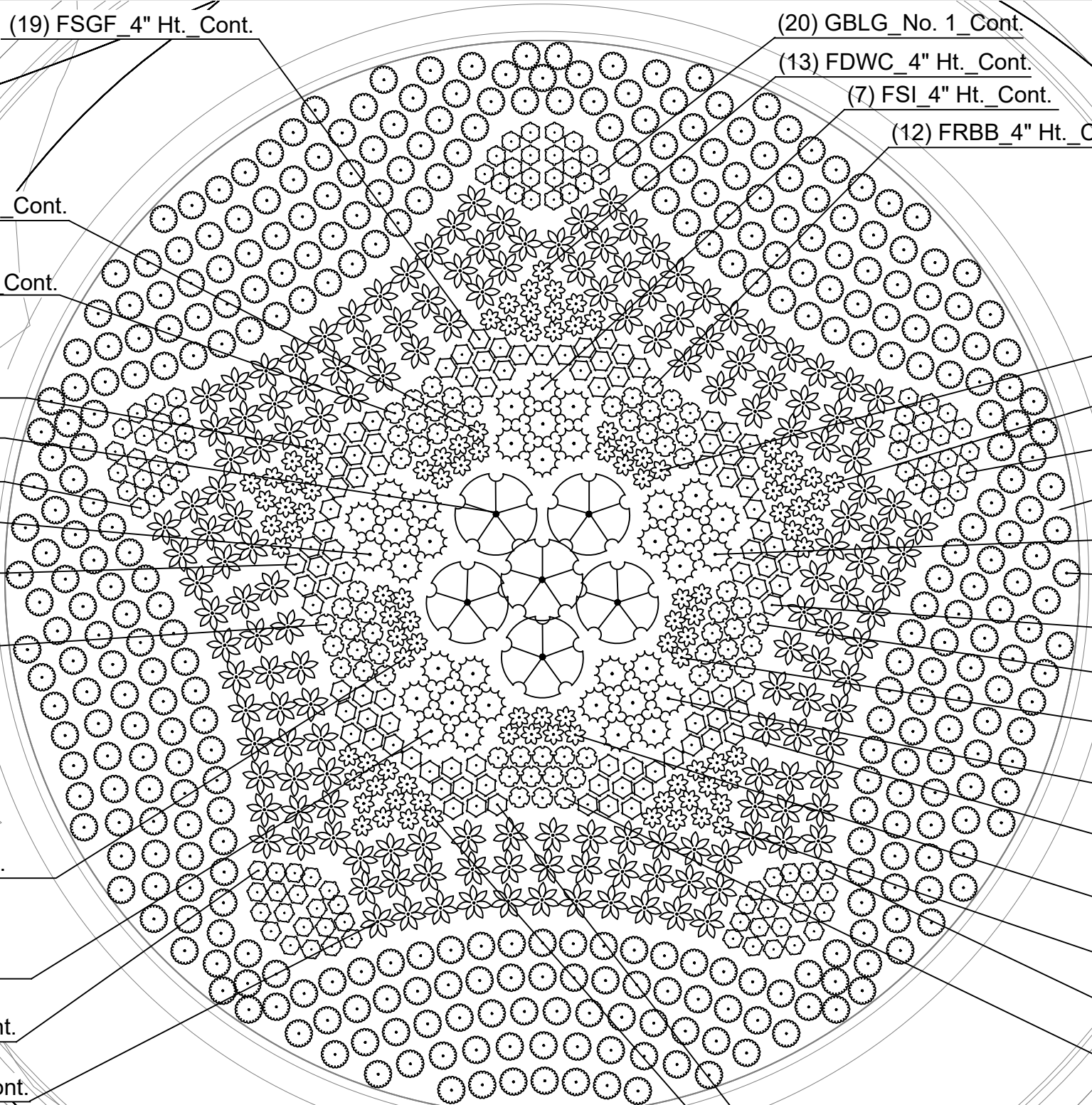
LEGEND

BURIED POWER LINE		SANITARY MANHOLE	
OVERHEAD POWER LINE		BURIED WATER LINE	
POWER POLE		WATER HYDRANT	
BURIED GAS LINE		RIGHT OF WAY	
BURIED FIBER OPTIC LINE		CONSTRUCTION LIMITS	
BURIED COMMUNICATION LINE		TEMPORARY EASEMENT	
COMMUNICATION PEDESTAL		NEW RIGHT-OF-WAY OR PERMANENT EASEMENT	
BURIED SANITARY SEWER			
DRAINAGE PIPE INPLACE			



TIME:
DATE:
FILENAME:

KEY	SPECIES	QUANT.	SPACING
CFE_15" HT CONT	EUONYMUS, CHICAGO FIRE	6	AS SHOWN
FSI_4"	INDIGO, FALSE	35	AS SHOWN
FDWC_4"	CONEFLOWER, BABY WHITE SWAN	100	AS SHOWN
FRBB_4"	RED BEE BALM	60	AS SHOWN
FSGF_4"	GAYFEATHER, SPIKE	95	AS SHOWN
FSSD_4"	DAYLILY, STELLA SUPREME	365	AS SHOWN
GPRD_NO 1	DROPSEED, PRAIRIE	165	AS SHOWN
GBLG_NO 1	BRAMA, BLUE	100	AS SHOWN



(19) FSGF 4" Ht. Cont.

(7) FDWC 4" Ht. Cont.

(12) FRBB 4" Ht. Cont.

(13) FDWC 4" Ht. Cont.

(6) CFE 15" Ht. Cont.

(20) GBLG No. 1 Cont.

(7) FSI 4" Ht. Cont.

(19) FSGF 4" Ht. Cont.

(12) FRBB 4" Ht. Cont.

(7) FDWC 4" Ht. Cont.

(7) FSI 4" Ht. Cont.

(20) GBLG No. 1 Cont.

(165) GPRD No. 1 Cont.

(20) GBLG No. 1 Cont.

(13) FDWC 4" Ht. Cont.

(7) FSI 4" Ht. Cont.

(12) FRBB 4" Ht. Cont.

(7) FDWC 4" Ht. Cont.

(7) FSI 4" Ht. Cont.

(19) FSGF 4" Ht. Cont.

(7) FDWC 4" Ht. Cont.

(13) FDWC 4" Ht. Cont.

(20) GBLG No. 1 Cont.

(12) FRBB 4" Ht. Cont.

(19) FSGF 4" Ht. Cont.

(13) FDWC 4" Ht. Cont.

(7) FDWC 4" Ht. Cont.

(13) FDWC 4" Ht. Cont.

(20) GBLG No. 1 Cont.

4" DEPTH SHREDDED HARDWOOD MULCH OVER KRAFT PAPER FABRIC

(7) FSI 4" Ht. Cont.

(365) FSSD 4" Ht. Cont.

(19) FSGF 4" Ht. Cont.

(12) FRBB 4" Ht. Cont.

(7) FDWC 4" Ht. Cont.

(6) FSI 4" Ht. Cont.

(19) FSGF 4" Ht. Cont.

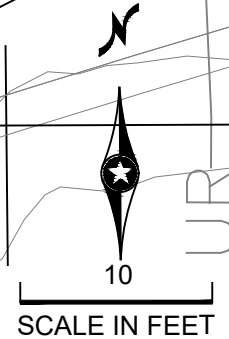
(7) FDWC 4" Ht. Cont.

(13) FDWC 4" Ht. Cont.

(20) GBLG No. 1 Cont.

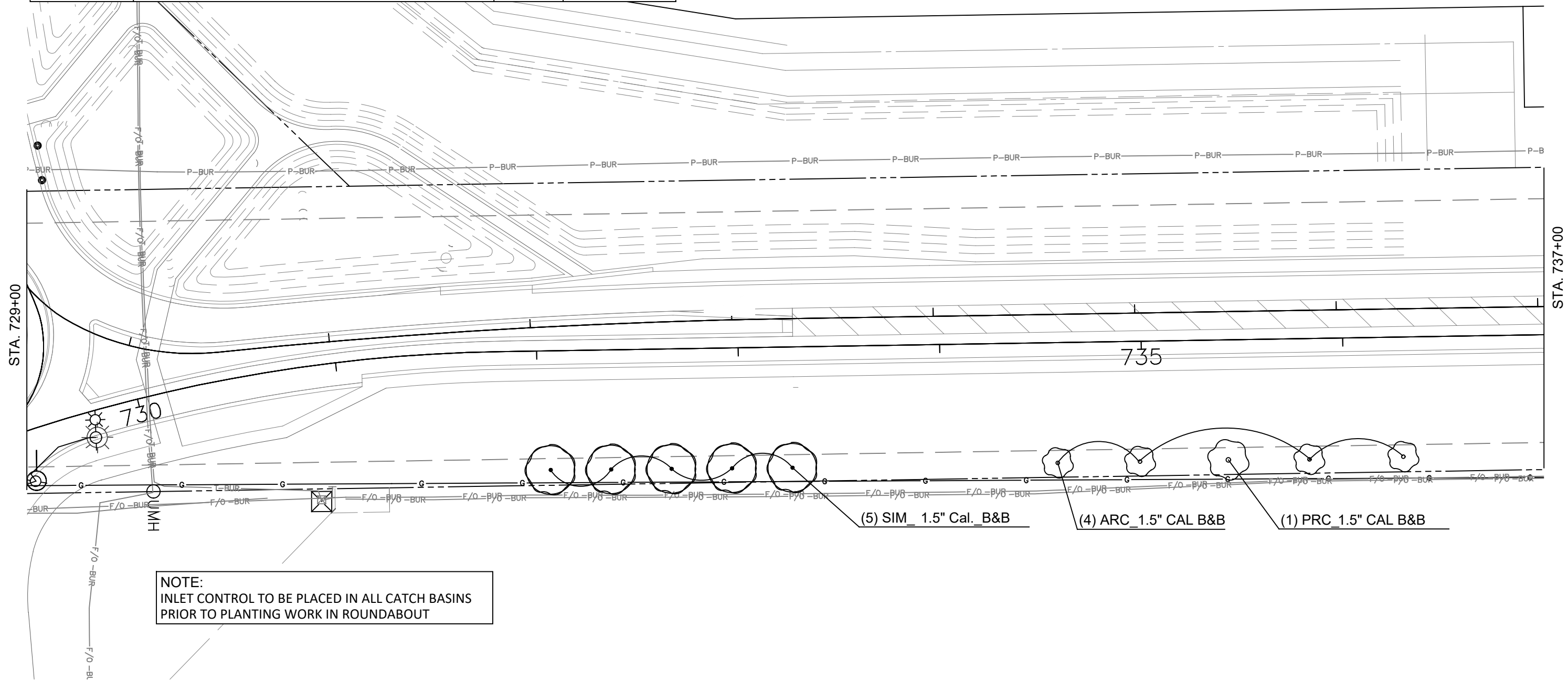
(12) FRBB 4" Ht. Cont.

NOTE:
INLET CONTROL TO BE PLACED IN ALL CATCH BASINS PRIOR TO PLANTING WORK IN ROUNDABOUT



DATE: _____
FILENAME: _____
TIME: _____

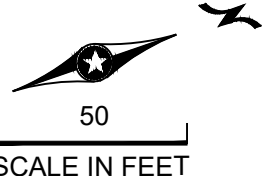
KEY	SPECIES	QUANT.	SPACING
SIM_1.5"	MAPLE, SIENNA GLEN	5	AS SHOWN
ARC_1.5"	CRABAPPLE, ADIRONDACK	4	AS SHOWN
PRC_1.5"	CRABAPPLE, PRAIRIEFIRE	1	AS SHOWN



NOTE:
INLET CONTROL TO BE PLACED IN ALL CATCH BASINS
PRIOR TO PLANTING WORK IN ROUNDABOUT

LEGEND

- | | | | |
|---------------------------|-------------|-----------------------|-----|
| BURIED POWER LINE | — P-BUR — | SANITARY MANHOLE | ○ M |
| OVERHEAD POWER LINE | — OHP — | BURIED WATER LINE | — |
| POWER POLE | ○ | WATER HYDRANT | ⊕ |
| BURIED GAS LINE | — G — | RIGHT OF WAY | — |
| BURIED FIBER OPTIC LINE | — F/O-BUR — | CONSTRUCTION LIMITS | — |
| BURIED COMMUNICATION LINE | — T-BUR — | TEMPORARY EASEMENT | — |
| COMMUNICATION PEDESTAL | ⊗ | NEW RIGHT-OF-WAY | — |
| BURIED SANITARY SEWER | — | OR PERMANENT EASEMENT | — |
| DRAINAGE PIPE INPLACE | — DTL — | | |



TIME:
DATE:
FILENAME:

4" SOLID LINE PARKING LOT PAINT STRIPING AND PAVEMENT "NO PARKING" MESSAGE AS INDICATED, INCLUDING ACCESS AISLE AND HC SYMBOL

7" CONCRETE DRIVEWAY APRON

LAYOUT CONTROL POINT:
 CENTERLINE PARKING LOT AND R.O.W INTERSECTION (ALIGN WITH EXISTING APRON)
 X: 581216.86
 Y: 131539.95

CR 7

2'X8' TRUNCATED DOME SECTION SET IN CONCRETE

VAN ACCESSIBLE HC PARKING SIGN TYPE C

EXISTING ROW

NEW STONE MONUMENT WITH CAST STONE CAP

PRECAST CONCRETE CURB STOPS

BITUMINOUS PARKING LOT

CLEAR ZONE

PROPOSED NEW ROW

4" CONCRETE PAVEMENT (TYP)

CONCRETE PAVEMENT 4"

CONCRETE BASE BY OTHERS

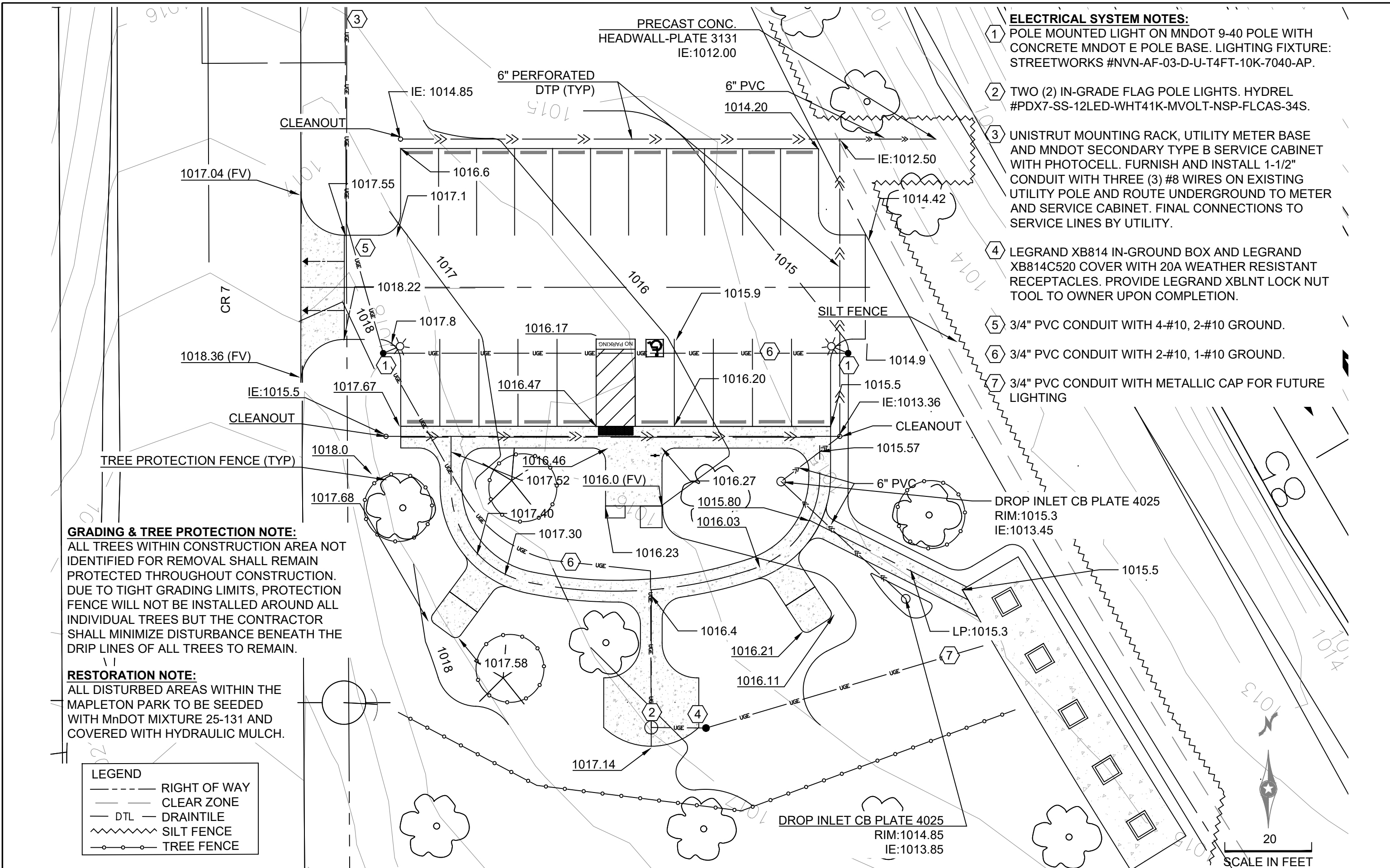
FLAG POLE

(5) MONUMENTS BY OTHERS

LEGEND	
-----	RIGHT OF WAY
----	CLEAR ZONE
- - - -	DTL - DRAINTILE

20
SCALE IN FEET

DATE: FILENAME:
TIME:



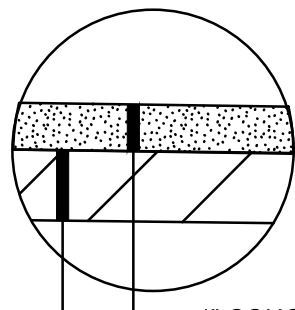
- ELECTRICAL SYSTEM NOTES:**
- 1 POLE MOUNTED LIGHT ON MNDOT 9-40 POLE WITH CONCRETE MNDOT E POLE BASE. LIGHTING FIXTURE: STREETWORKS #NVN-AF-03-D-U-T4FT-10K-7040-AP.
 - 2 TWO (2) IN-GRADE FLAG POLE LIGHTS. HYDREL #PDX7-SS-12LED-WHT41K-MVOLT-NSP-FLCAS-34S.
 - 3 UNISTRUT MOUNTING RACK, UTILITY METER BASE AND MNDOT SECONDARY TYPE B SERVICE CABINET WITH PHOTOCELL. FURNISH AND INSTALL 1-1/2" CONDUIT WITH THREE (3) #8 WIRES ON EXISTING UTILITY POLE AND ROUTE UNDERGROUND TO METER AND SERVICE CABINET. FINAL CONNECTIONS TO SERVICE LINES BY UTILITY.
 - 4 LEGRAND XB814 IN-GROUND BOX AND LEGRAND XB814C520 COVER WITH 20A WEATHER RESISTANT RECEPTACLES. PROVIDE LEGRAND XBLNT LOCK NUT TOOL TO OWNER UPON COMPLETION.
 - 5 3/4" PVC CONDUIT WITH 4-#10, 2-#10 GROUND.
 - 6 3/4" PVC CONDUIT WITH 2-#10, 1-#10 GROUND.
 - 7 3/4" PVC CONDUIT WITH METALLIC CAP FOR FUTURE LIGHTING

GRADING & TREE PROTECTION NOTE:
 ALL TREES WITHIN CONSTRUCTION AREA NOT IDENTIFIED FOR REMOVAL SHALL REMAIN PROTECTED THROUGHOUT CONSTRUCTION. DUE TO TIGHT GRADING LIMITS, PROTECTION FENCE WILL NOT BE INSTALLED AROUND ALL INDIVIDUAL TREES BUT THE CONTRACTOR SHALL MINIMIZE DISTURBANCE BENEATH THE DRIP LINES OF ALL TREES TO REMAIN.

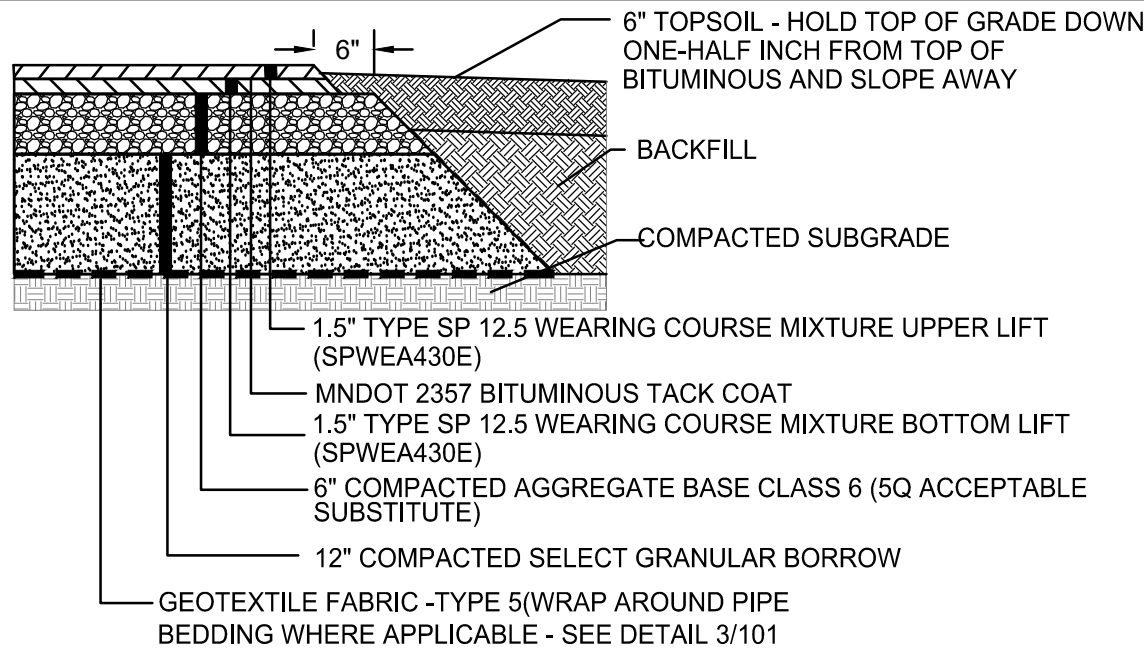
RESTORATION NOTE:
 ALL DISTURBED AREAS WITHIN THE MAPLETON PARK TO BE SEEDED WITH MnDOT MIXTURE 25-131 AND COVERED WITH HYDRAULIC MULCH.

LEGEND	
---	RIGHT OF WAY
---	CLEAR ZONE
---	DTL
---	DRAINTILE
---	SILT FENCE
---	TREE FENCE

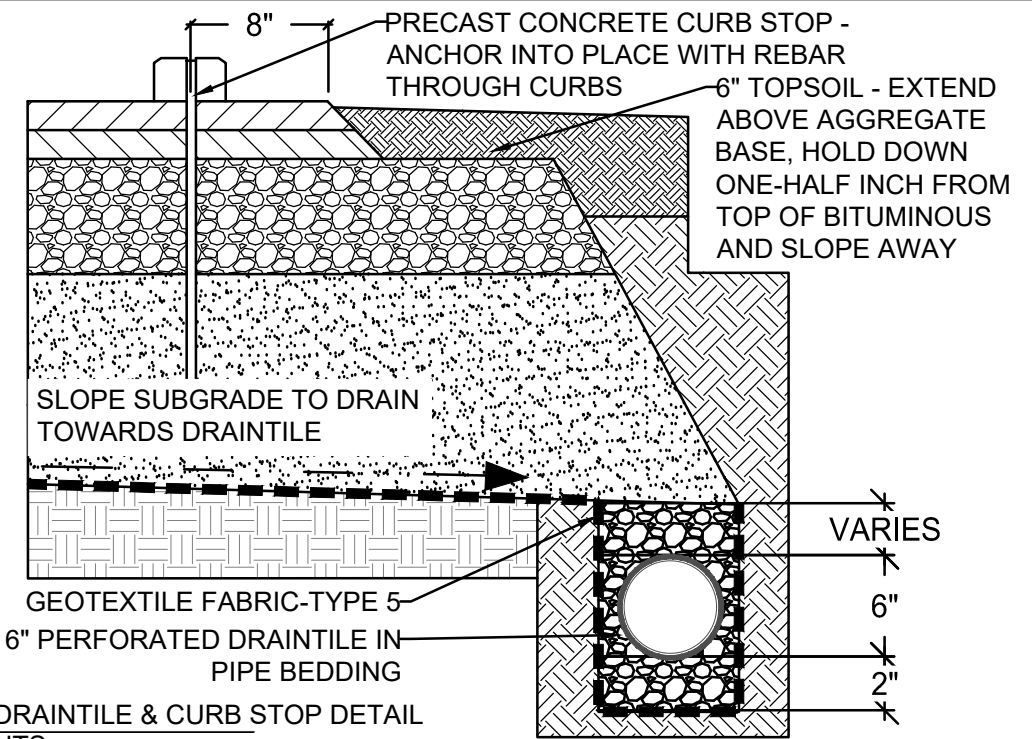
DATE: _____
 FILENAME: _____
 TIME: _____



4" CONCRETE PAVEMENT
6" COMPACTED AGGREGATE
BASE, CLASS 6 (5Q
ACCEPTABLE SUBSTITUTE)

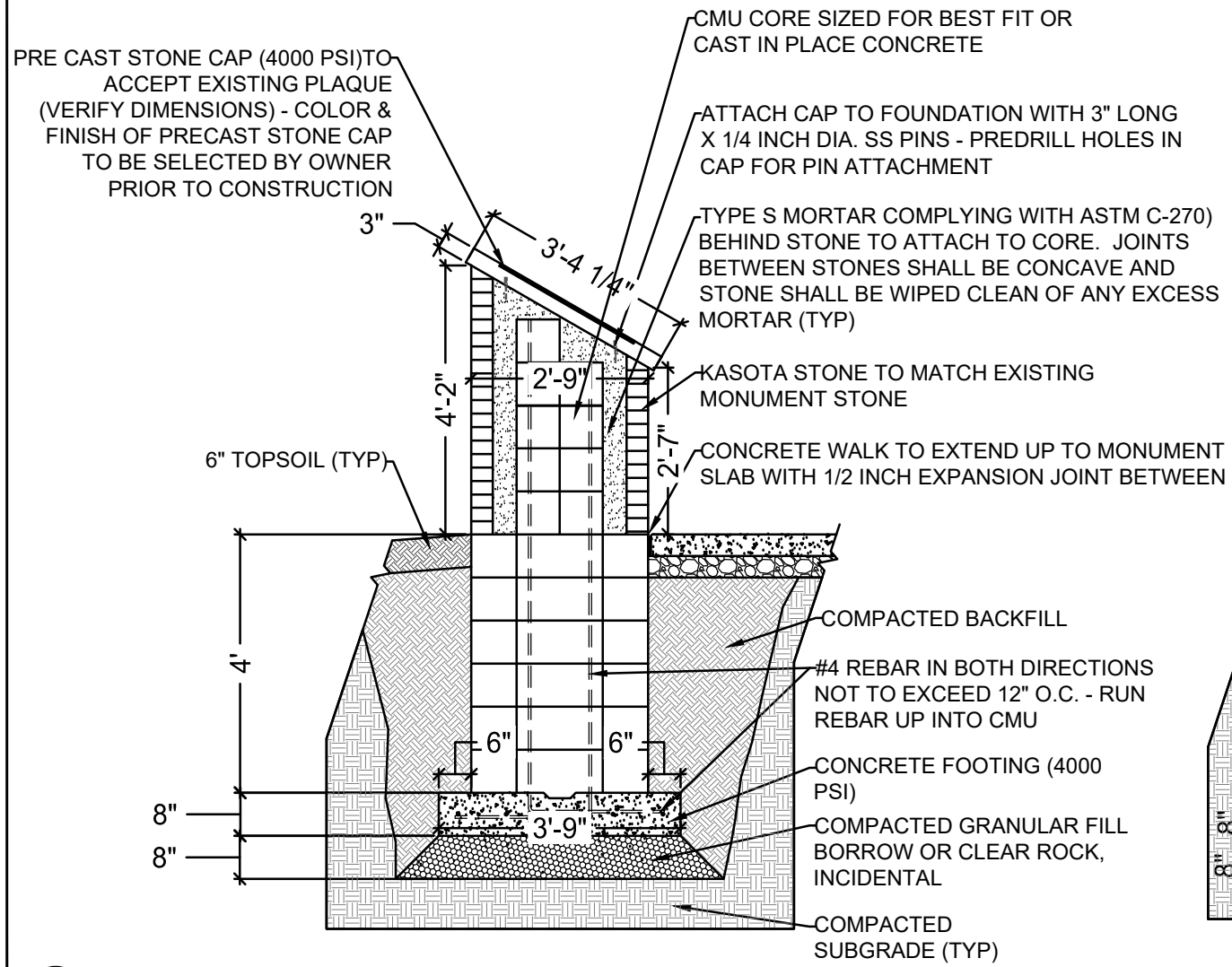


2 PARKING LOT PAVEMENT SECTION
115 NTS

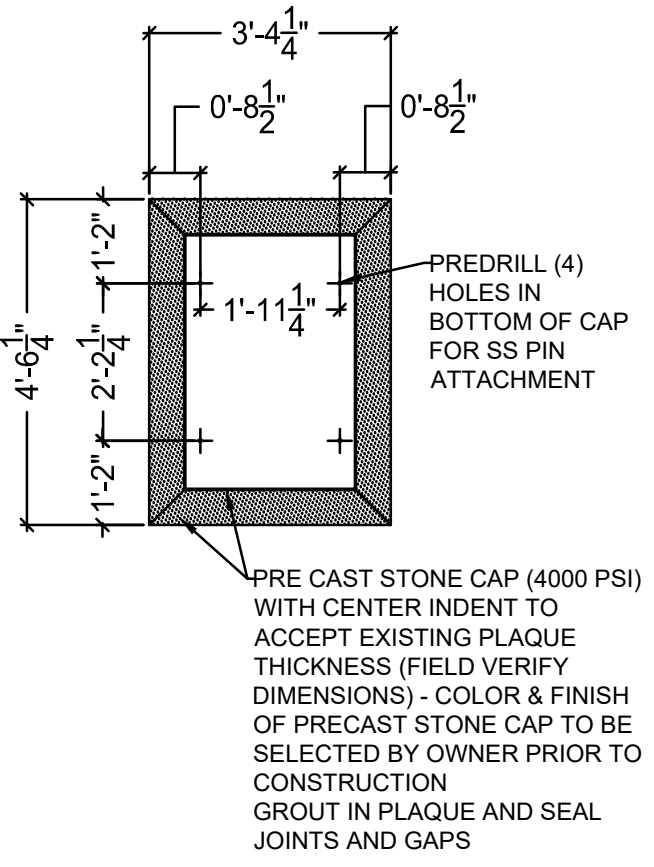
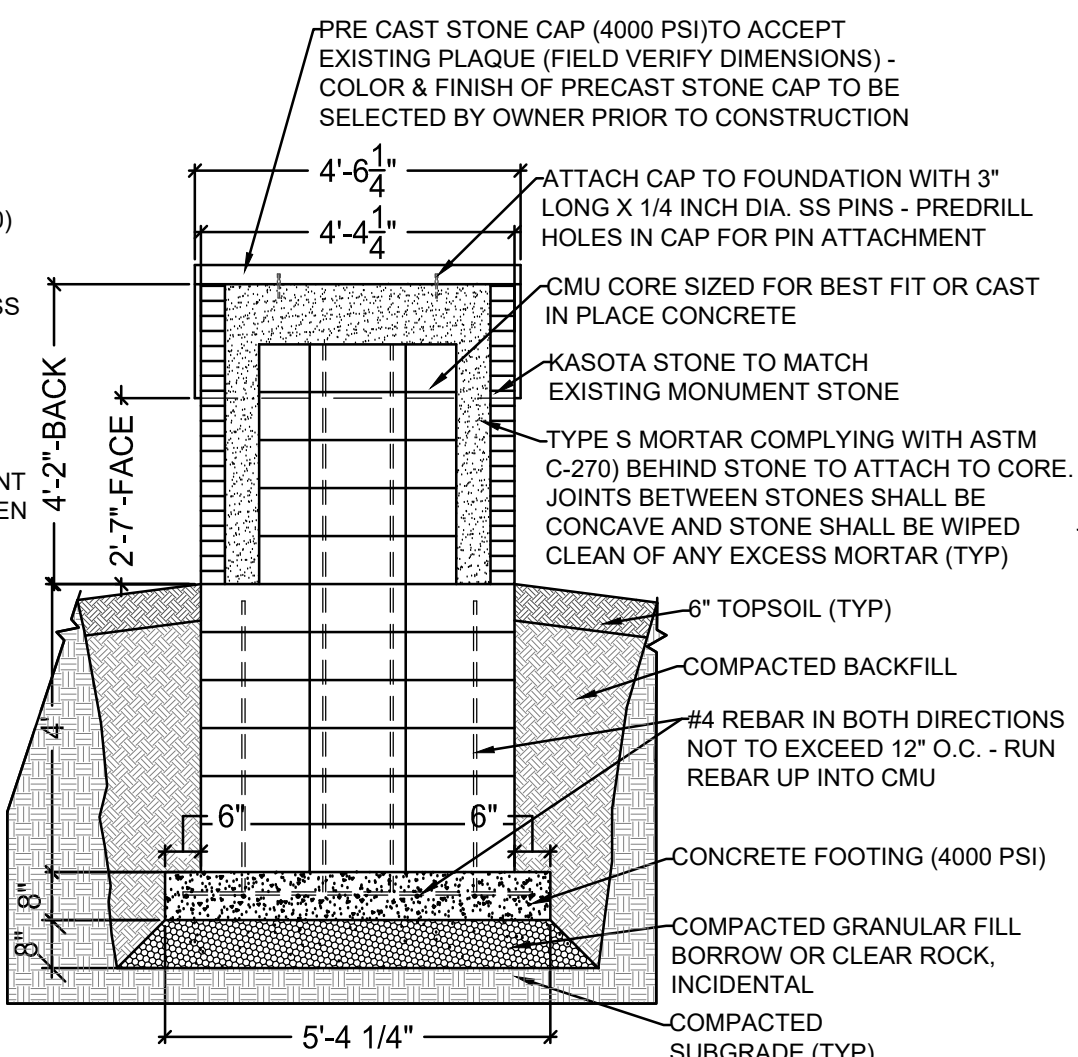


3 DRAINTILE & CURB STOP DETAIL
115 NTS

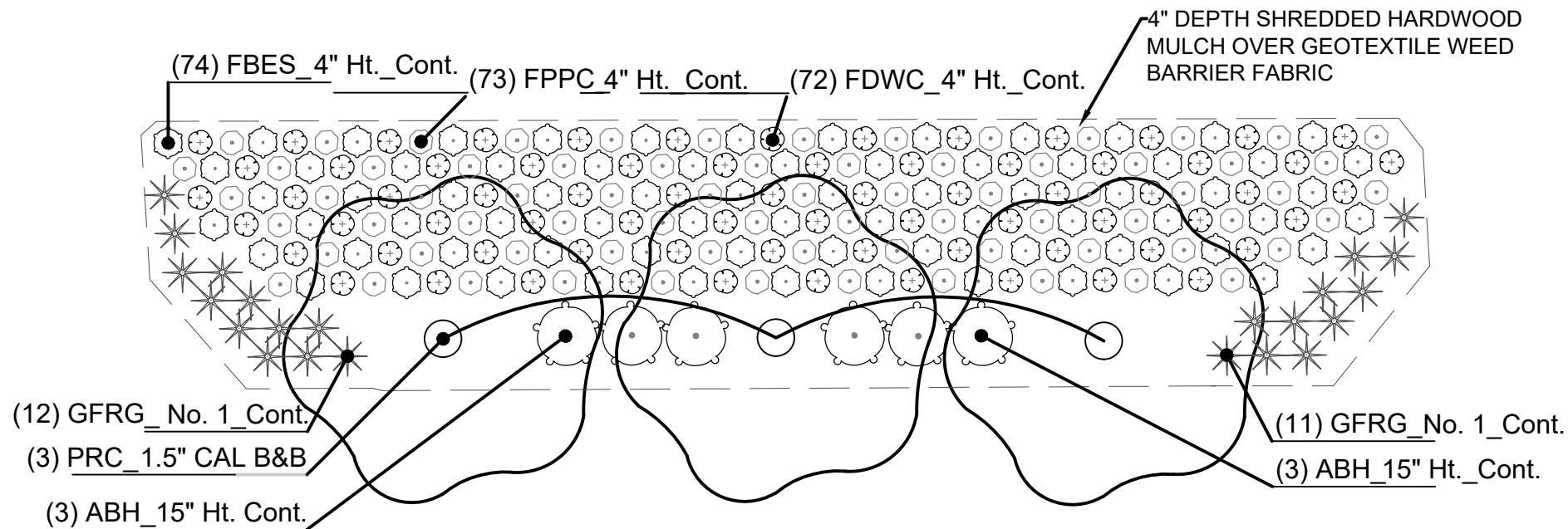
1 4" CONCRETE DETAIL
115 NTS



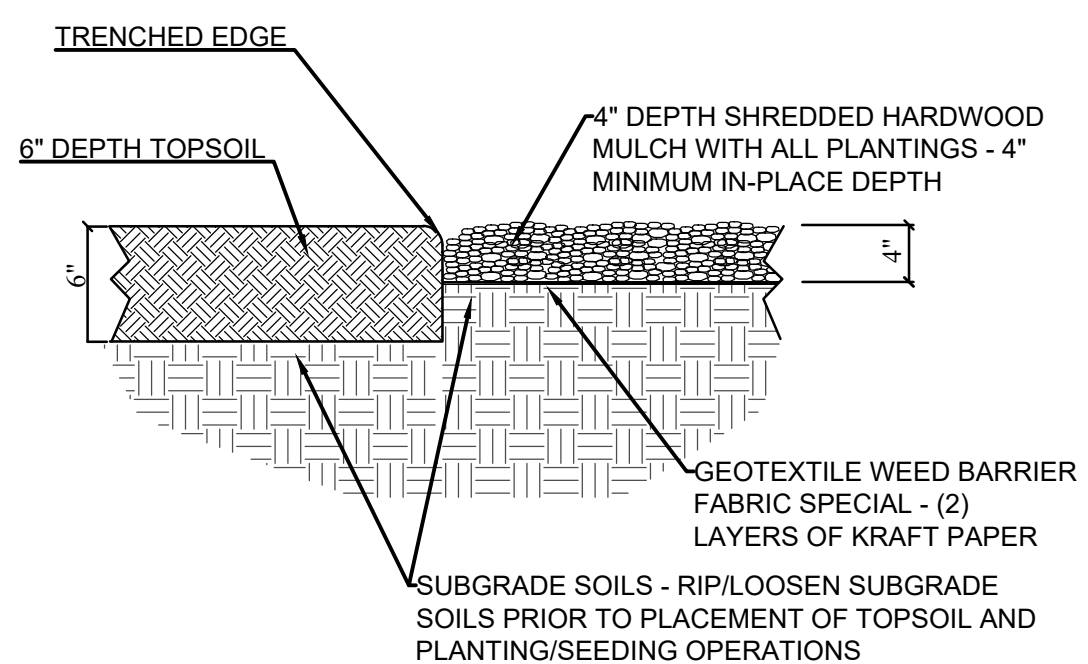
4 MONUMENT DETAIL
115 NTS



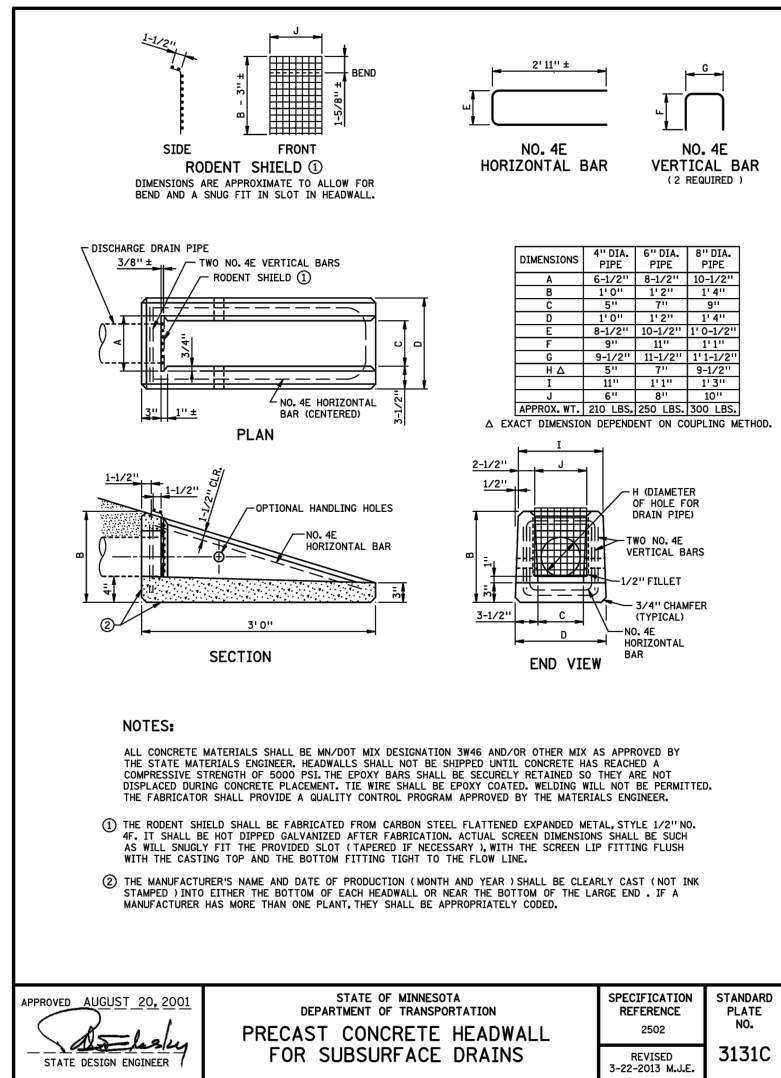
TIME:
DATE:
FILENAME:



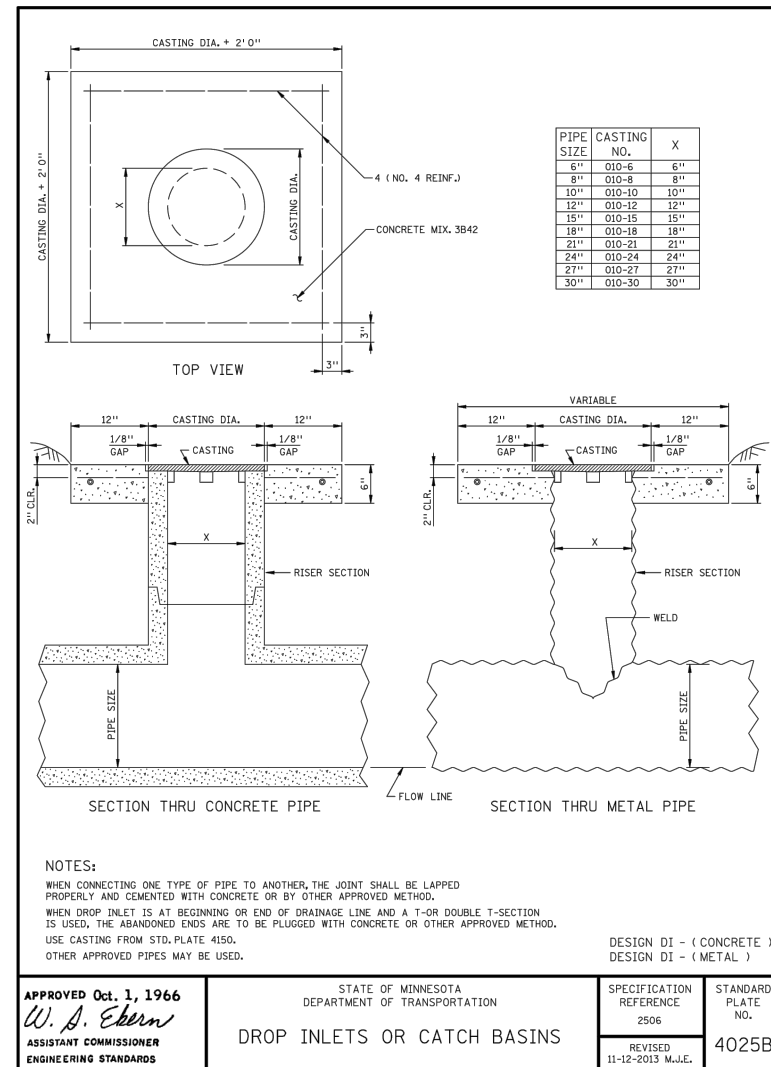
1 PLANTING ENLARGEMENT
116 NTS



2 PLANTING BED DETAIL
116 NTS



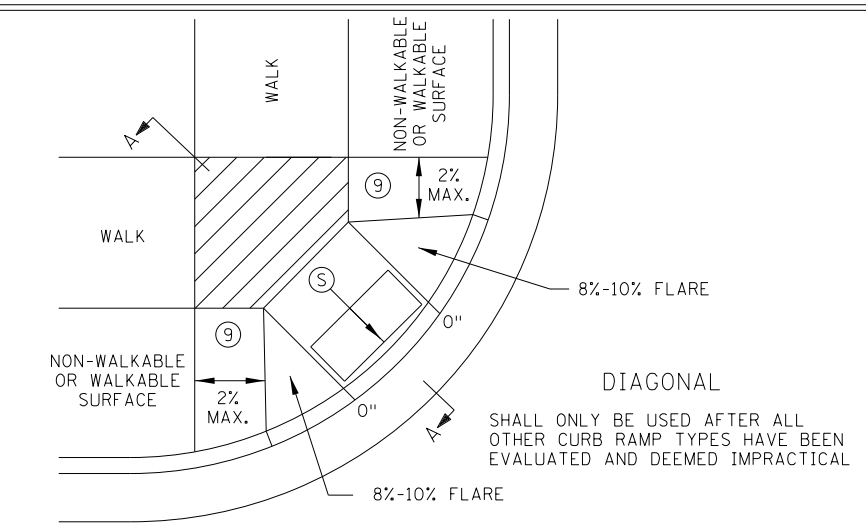
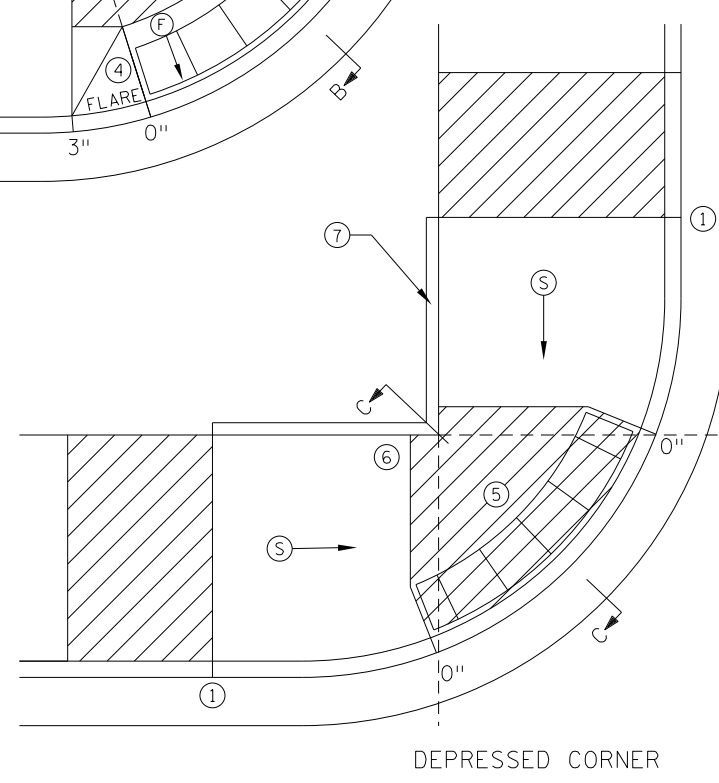
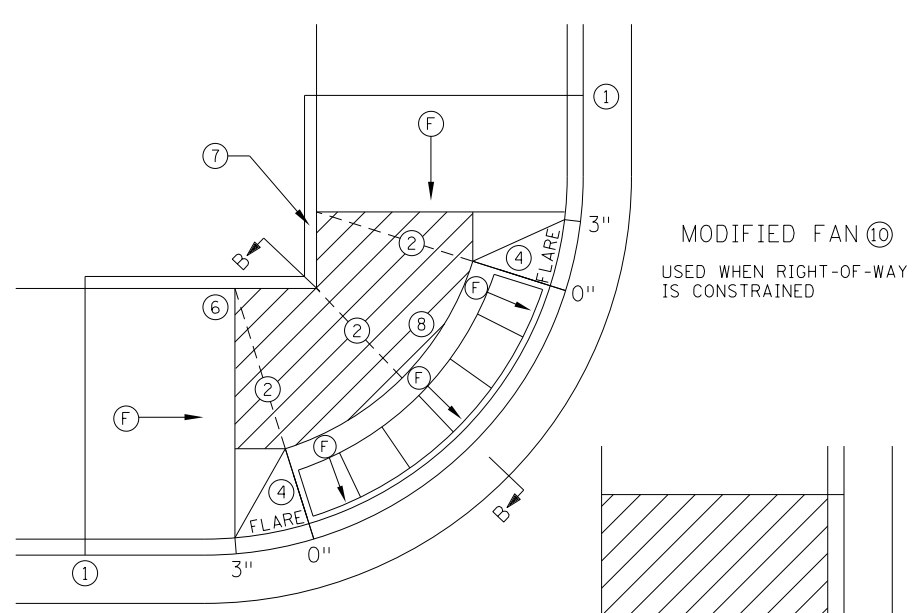
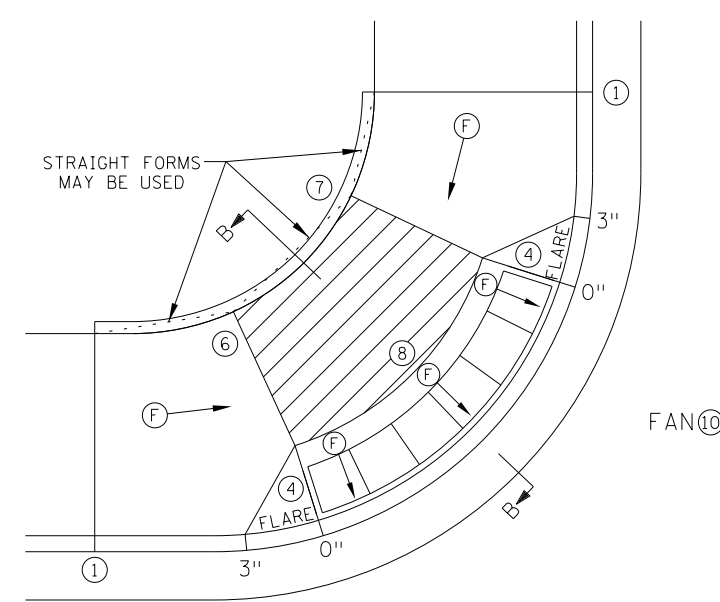
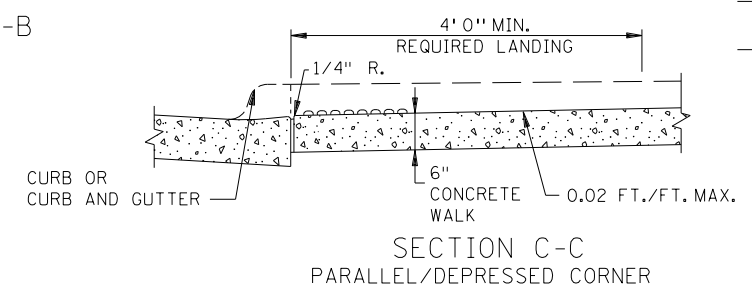
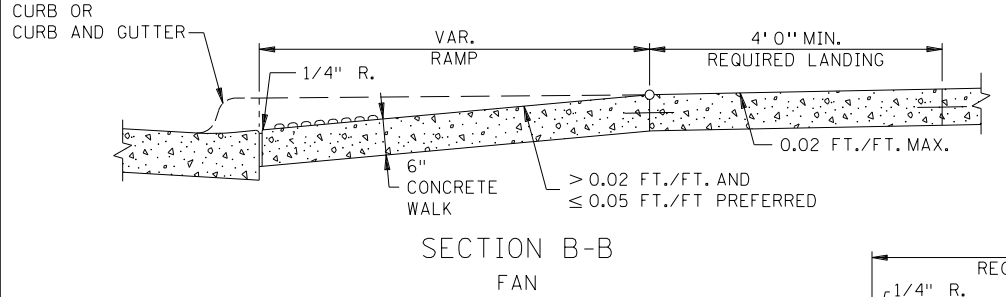
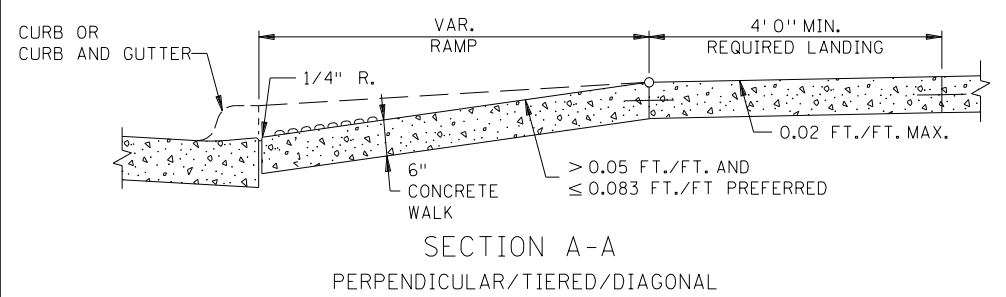
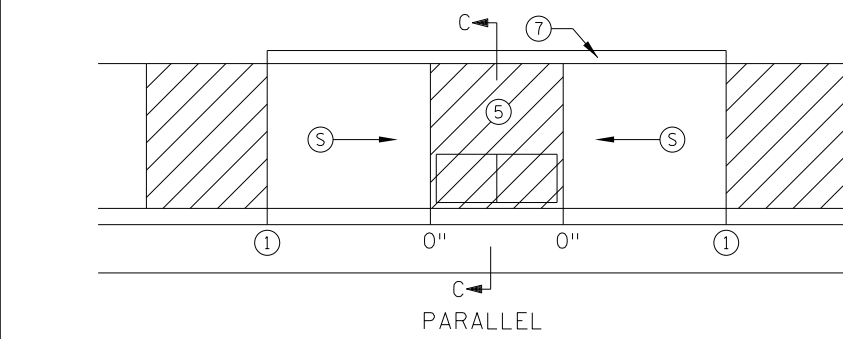
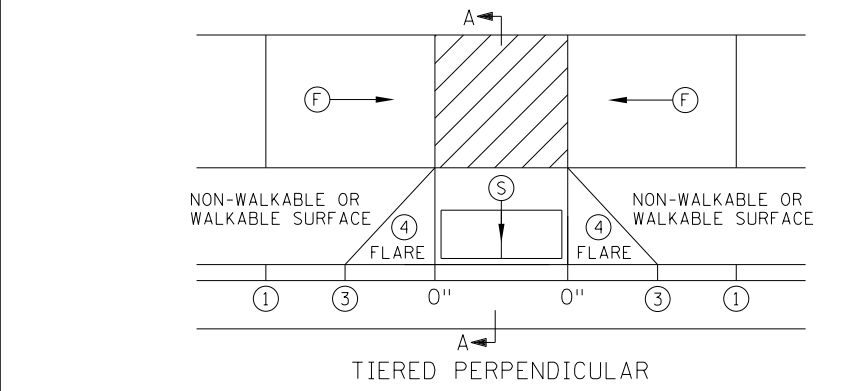
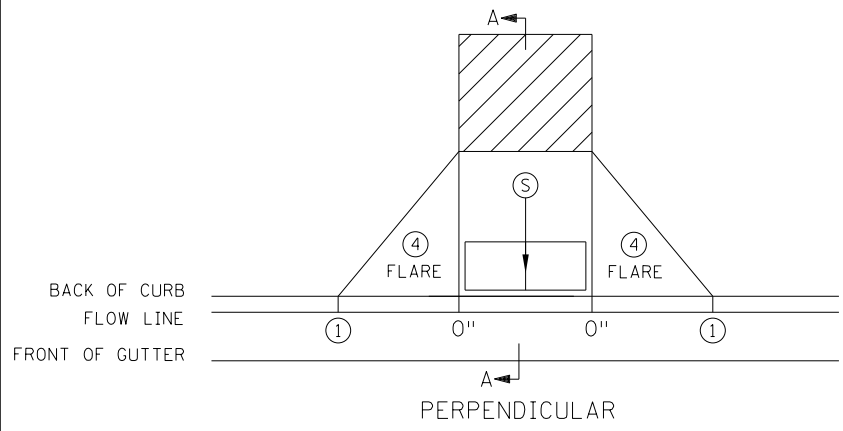
3 PRECAST CONCRETE HEADWALL FOR SUBSURFACE DRAINS
116 NTS



4 DROP INLETS FOR CATCH BASINS
116 NTS

TIME:
DATE:
FILENAME:

PLOTTED/REVISED:
4/16/2018



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 PAR.
X"	CURB HEIGHT

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REVISION:
APPROVED: JANUARY 23, 2017
OPERATIONS ENGINEER

MINNESOTA
DEPARTMENT OF TRANSPORTATION
Tom Jha
STATE DESIGN ENGINEER

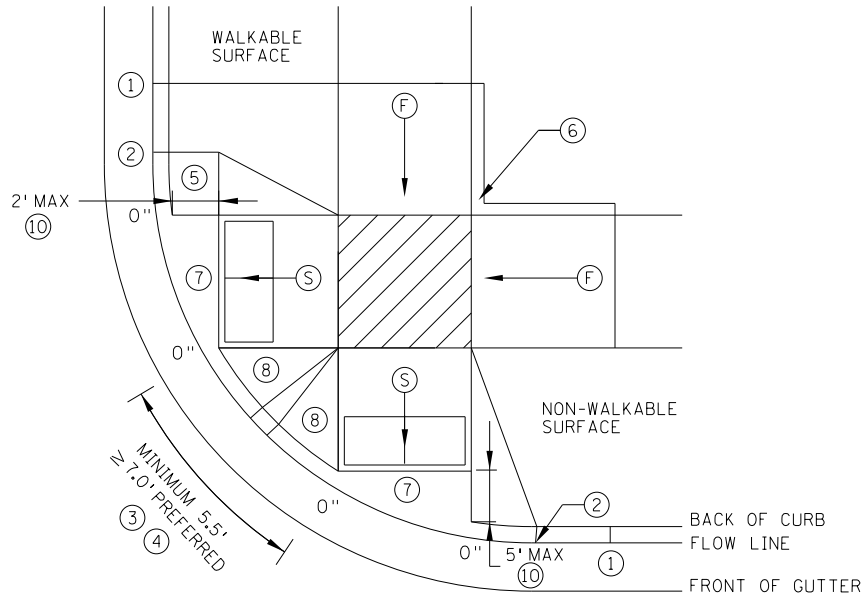
REVISED:
APPROVED:
1-23-2017

PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250 (SHEET 1 OF 6)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 117 OF 131

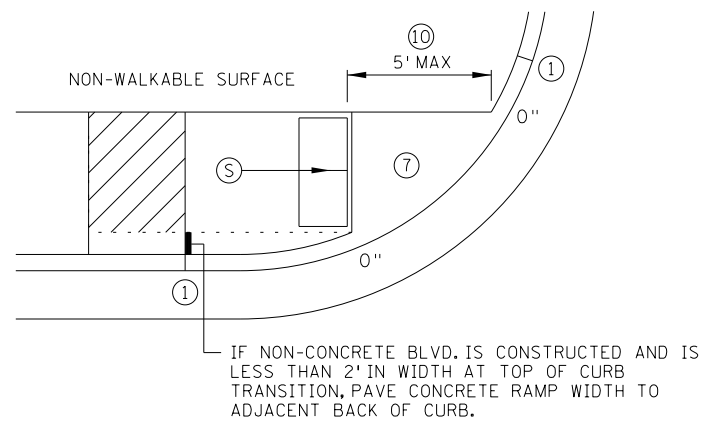
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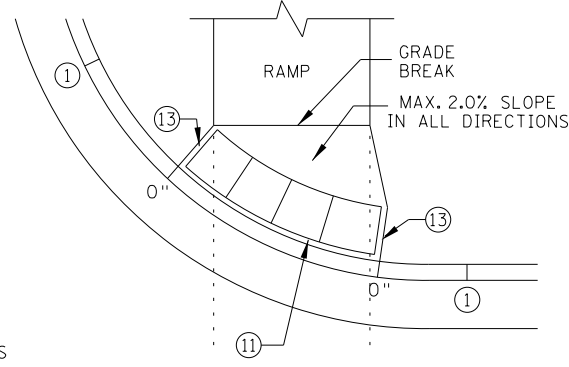
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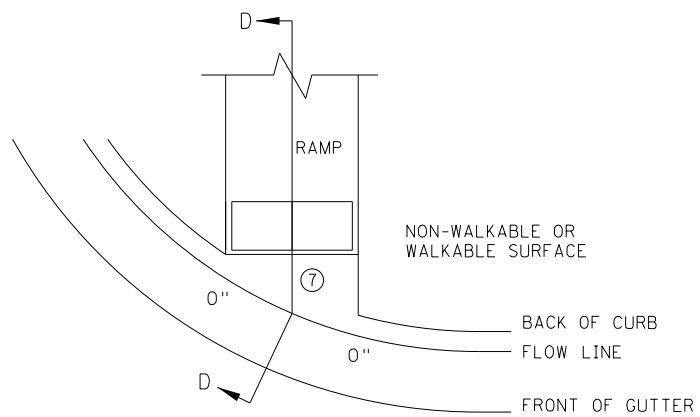
COMBINED DIRECTIONAL ⑨



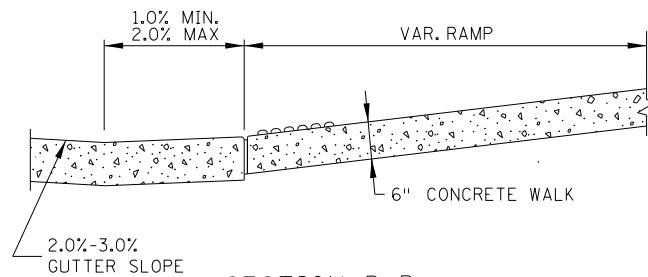
STANDARD ONE-WAY DIRECTIONAL ⑩



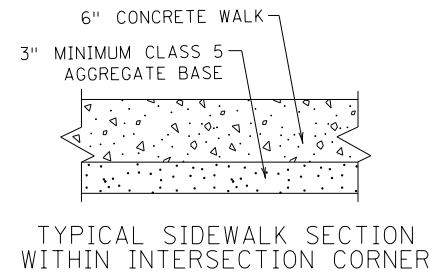
ONE-WAY DIRECTIONAL WITH DETECTABLE WARNING AT BACK OF CURB ⑪



CURB FOR DIRECTIONAL RAMPS ⑭

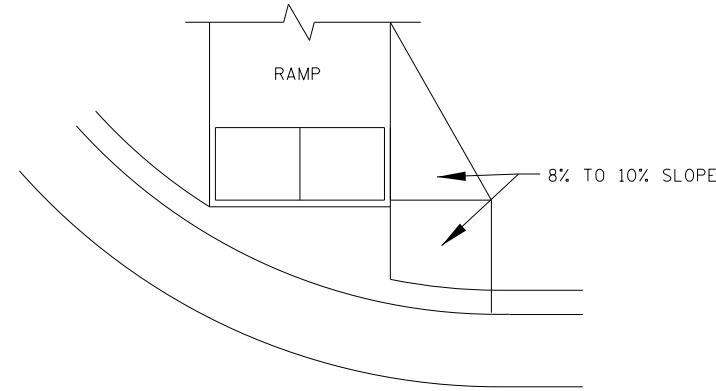


SECTION D-D ⑬



TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER ⑫

DIRECTIONAL RAMP WALKABLE FLARE



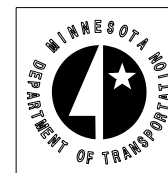
NOTES:

- 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
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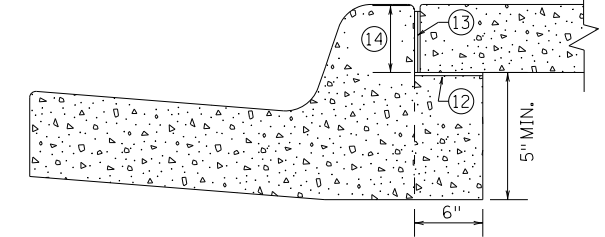
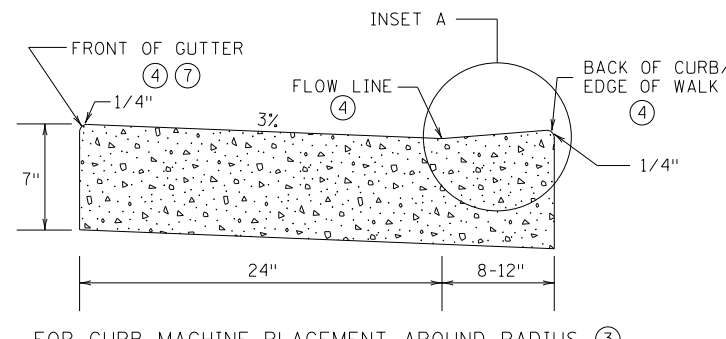
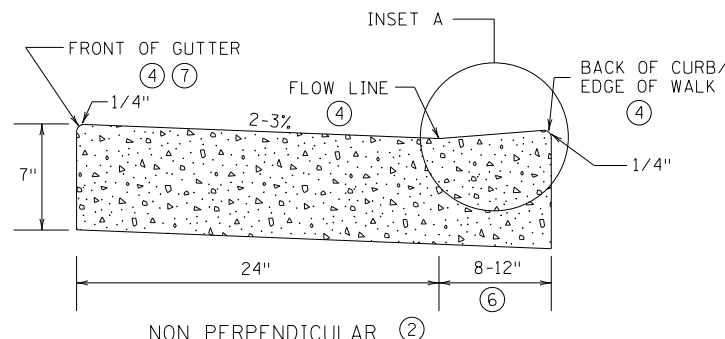
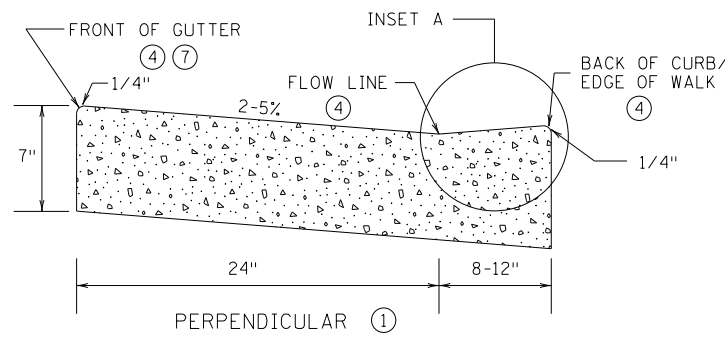


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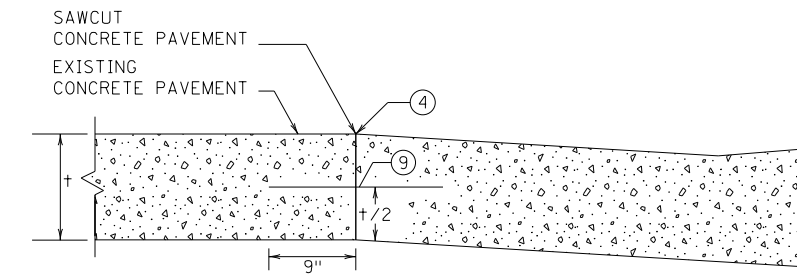
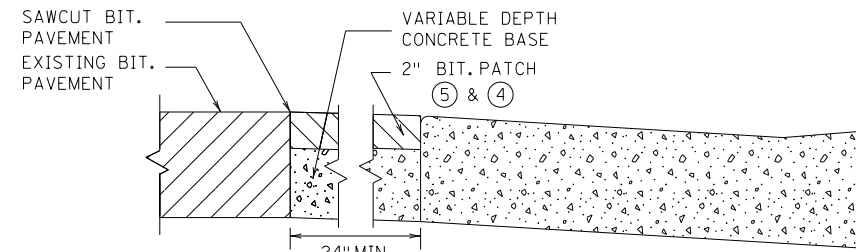
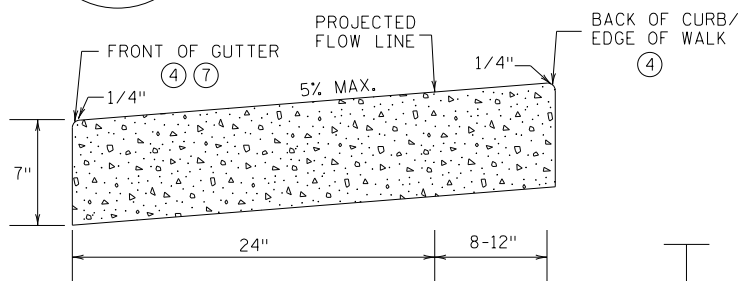
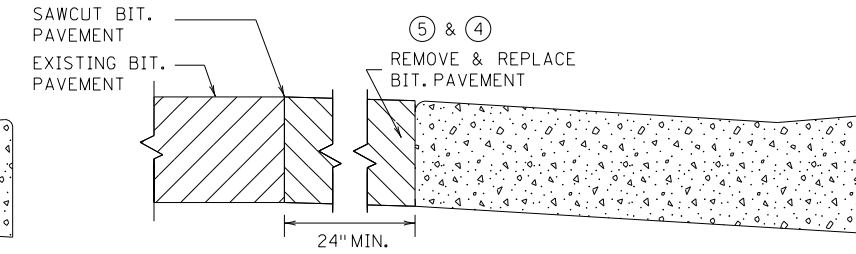
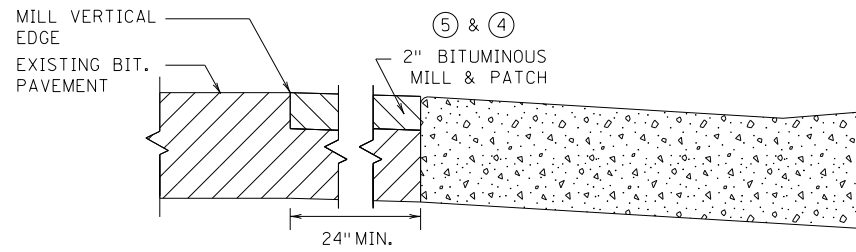
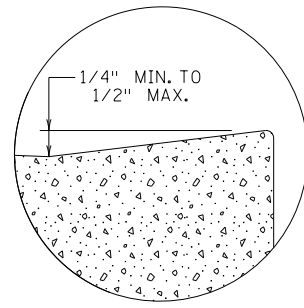
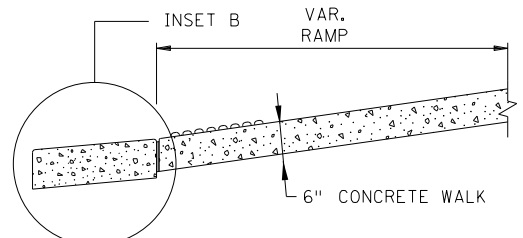
PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250 (SHEET 2 OF 6)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 118 OF 131

PLOTTED/REVISED:
4/6/2018



OPTIONAL SILL CURB WHEN SIDEWALK IS AT BACK OF CURB
CONCRETE SILL TO BE USED ONLY WHEN SPECIFIED IN THE PLAN.

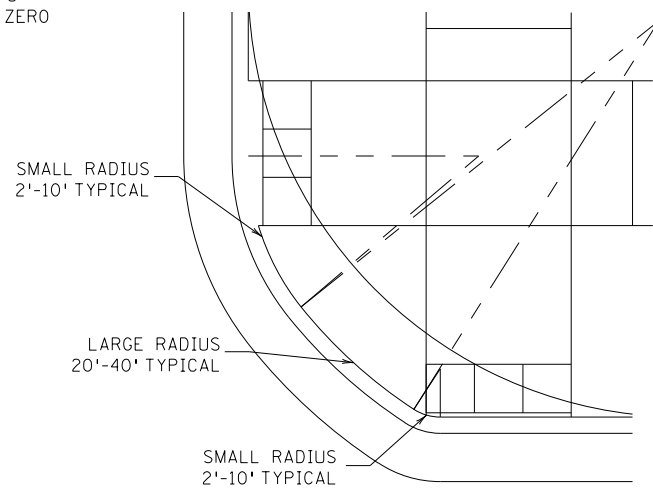
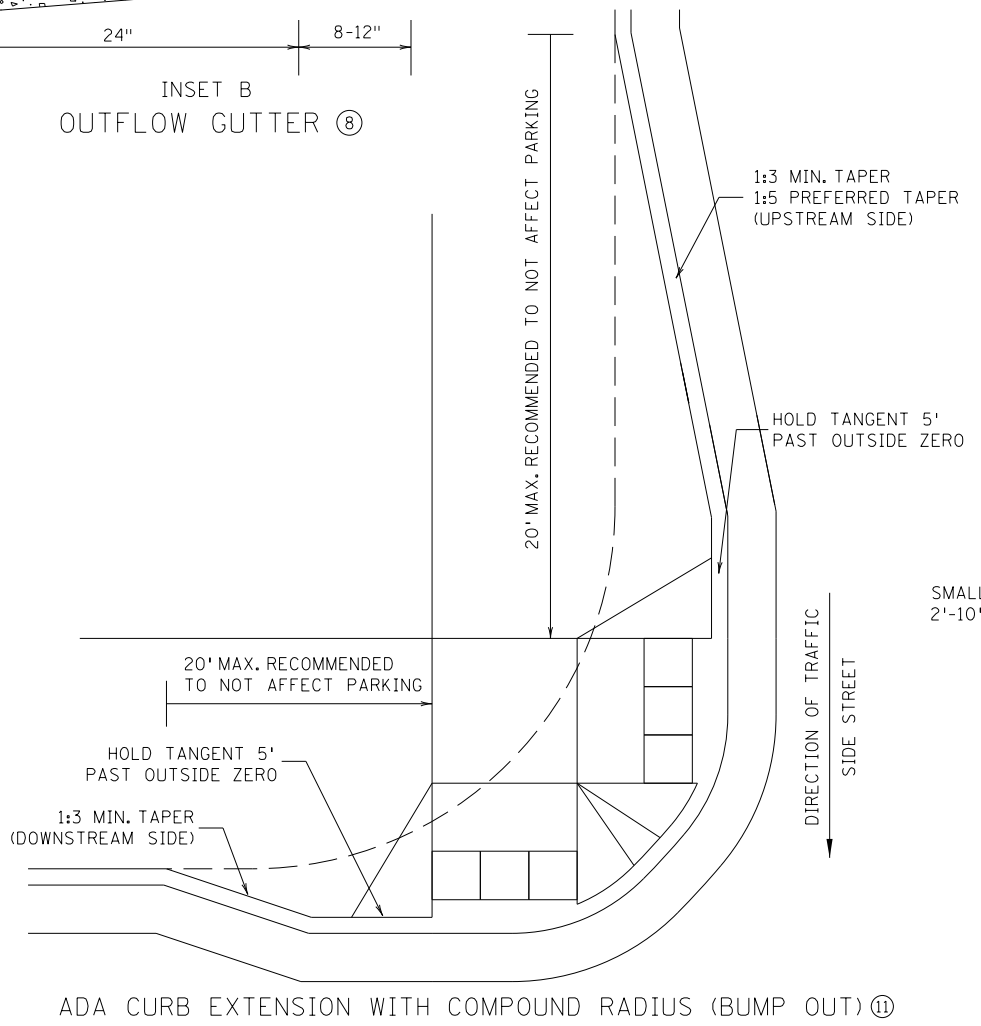
PEDESTRIAN ACCESS ROUTE CURB & GUTTER DETAIL



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 RAMPS.
 - ② FOR USE AT CURB RAMPS 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 RAMPS.
 - 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 RAMPS, 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.



COMBINED DIRECTIONAL ⑩ (COMPOUND RADIUS)

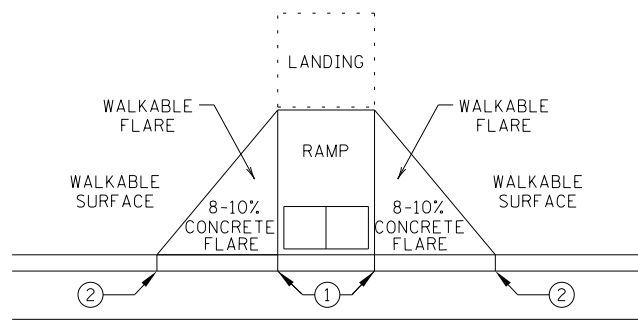
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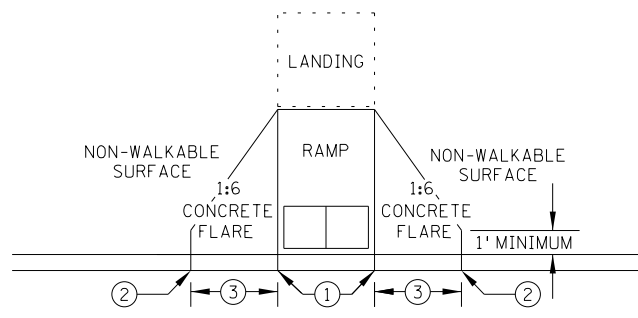
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STATE DESIGN ENGINEER
APPROVED: 1-23-2017

PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250 (SHEET 3 OF 6)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 119 OF 131

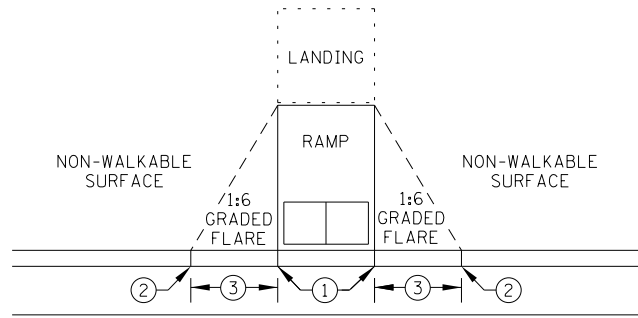
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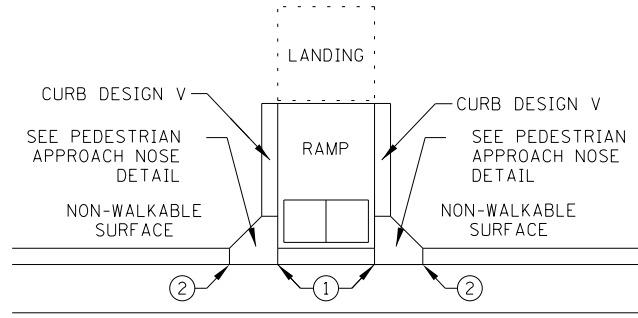
PAVED FLARES
ADJACENT TO WALKABLE SURFACE



PAVED FLARES
ADJACENT TO NON-WALKABLE SURFACE

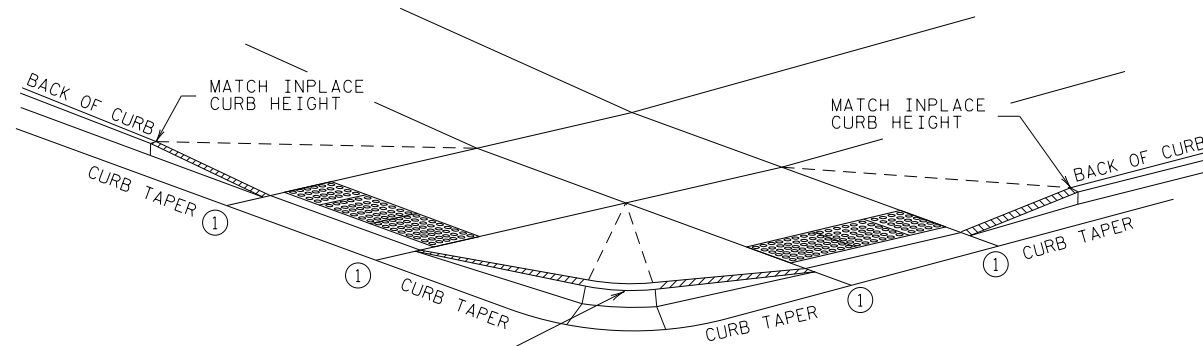


GRADED FLARES



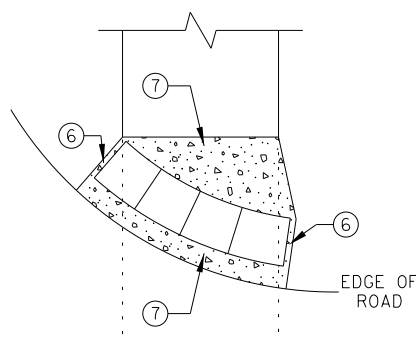
RETURNED CURB ⑤

TYPICAL SIDE TREATMENT OPTIONS ④ ⑪

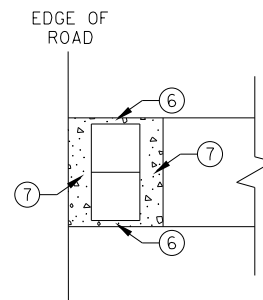


3" MINIMUM CURB HEIGHT, 4" PREFERRED
(MEASURED AT FRONT FACE OF CURB)
FOR A MIN. 6" LENGTH (MEASURED ALONG FLOW LINE)

DETECTABLE EDGE WITH ⑧
CURB AND GUTTER

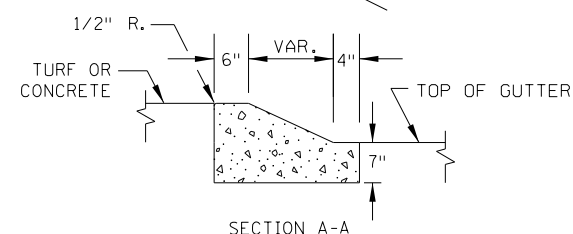
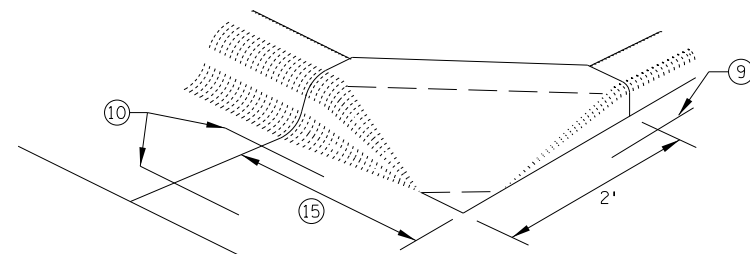


RADIAL DETECTABLE WARNING

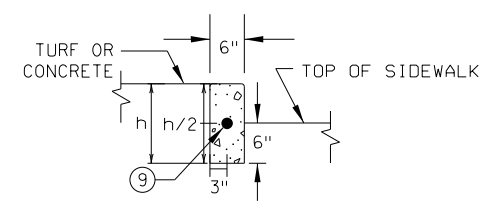


RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER

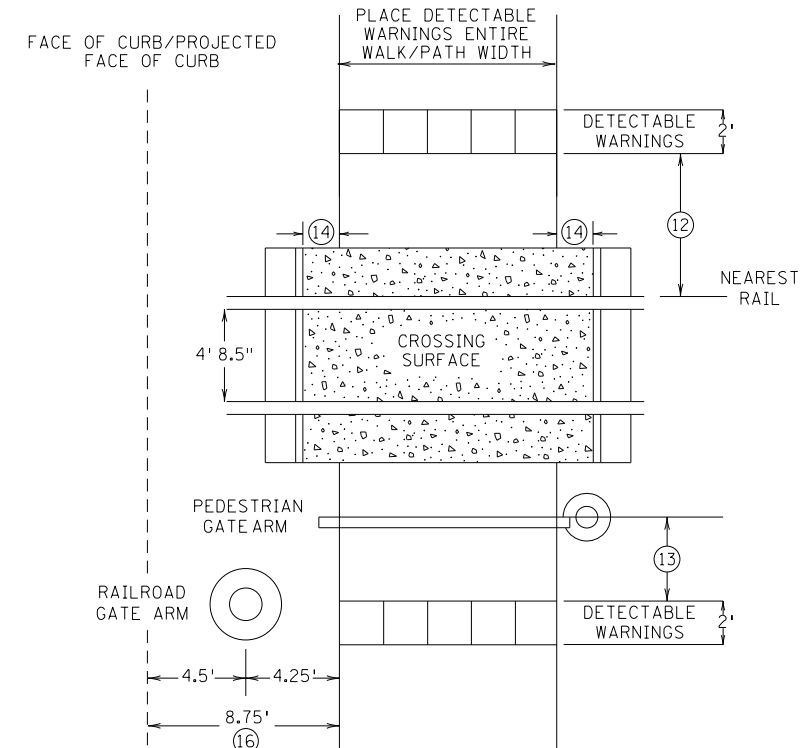


SECTION A-A



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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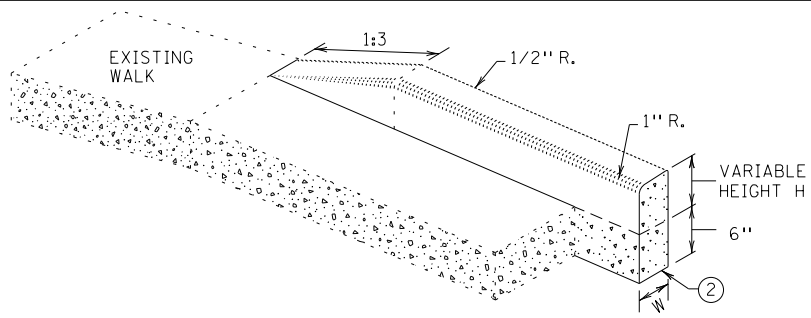
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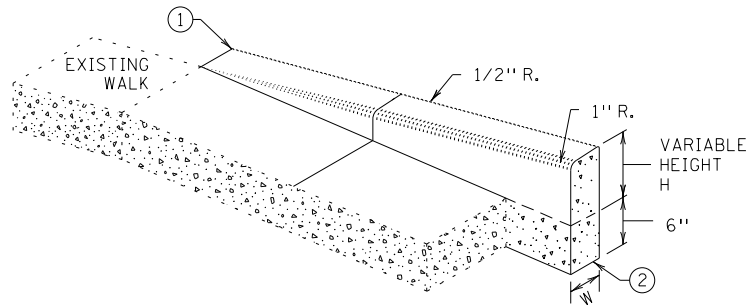
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PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250 (SHEET 4 OF 6)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 120 OF 131

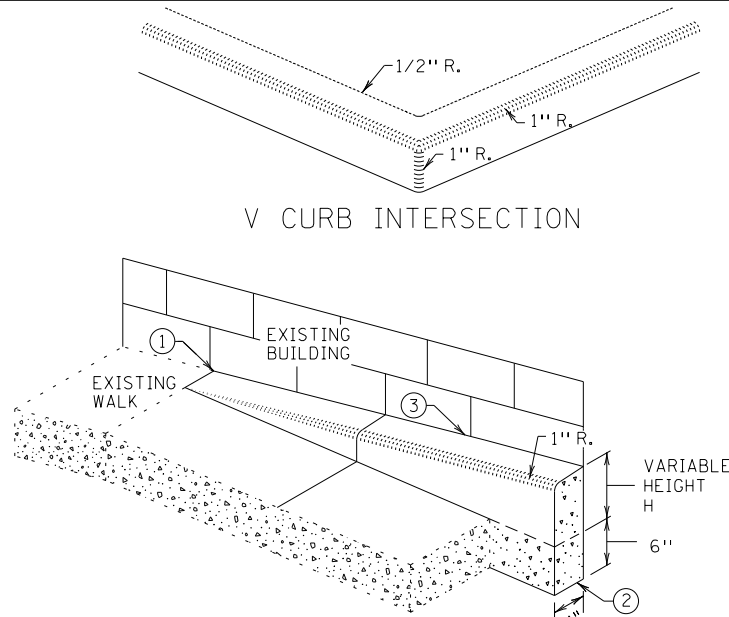
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V CURB ADJACENT TO LANDSCAPE
CURB WITHIN SIDEWALK LIMITS

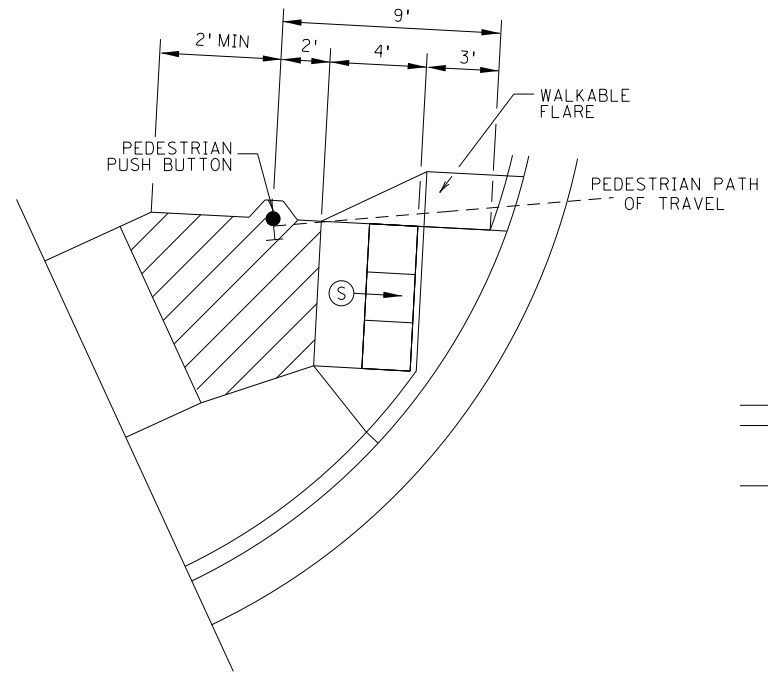


V CURB ADJACENT TO LANDSCAPE
CURB OUTSIDE SIDEWALK LIMITS



V CURB ADJACENT TO BUILDING
OR BARRIER

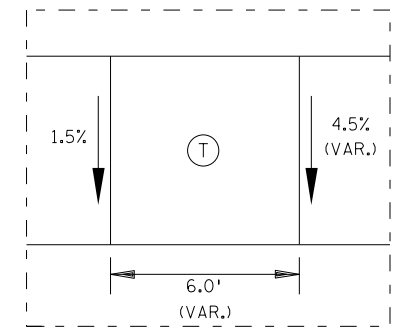
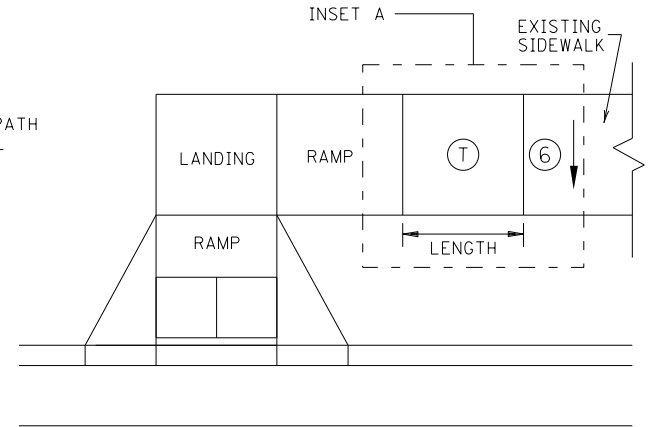
CONCRETE CURB DESIGN V	
CURB HEIGHT H	CURB WIDTH W
< 6"	4"
≥ 6"	6"



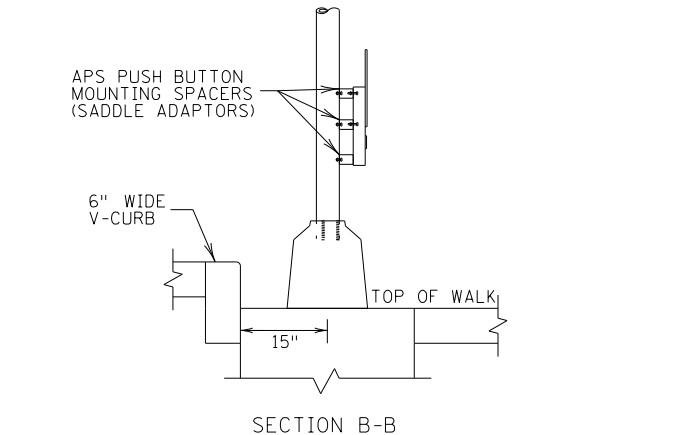
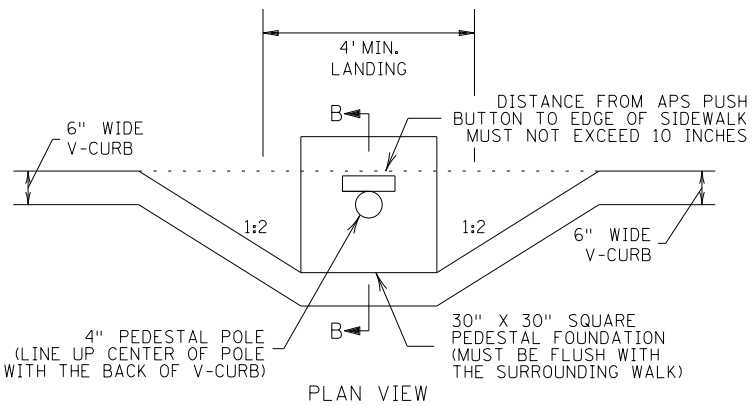
SEMI-DIRECTIONAL RAMP (3,4,9)

3' DOME SETBACK, 4' LONG RAMP AND
PUSH BUTTON 9' FROM THE BACK OF CURB

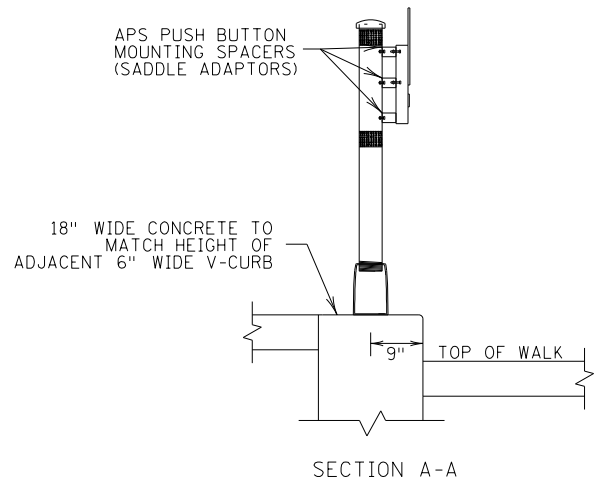
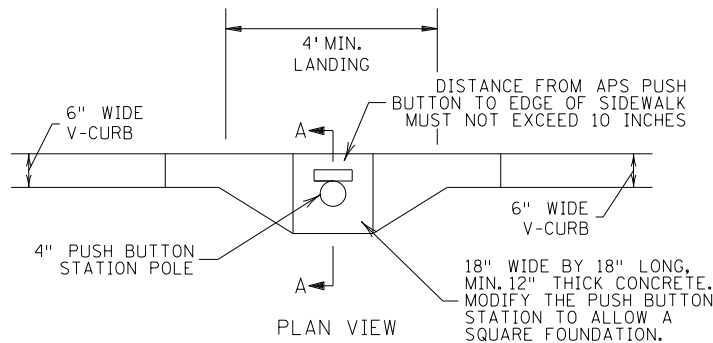
PRIMARYLY USED FOR APS APPLICATIONS
WHERE THE PAR DOES NOT CONTINUE PAST
THE PUSH BUTTON (DEAD-END SIDEWALK)



TRANSITION PANEL (4) (5)



SIGNAL PEDESTAL & PUSH BUTTON (V-CURB)



PUSH BUTTON STATION (V-CURB)

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.

(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%.

(L) 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.

(T) 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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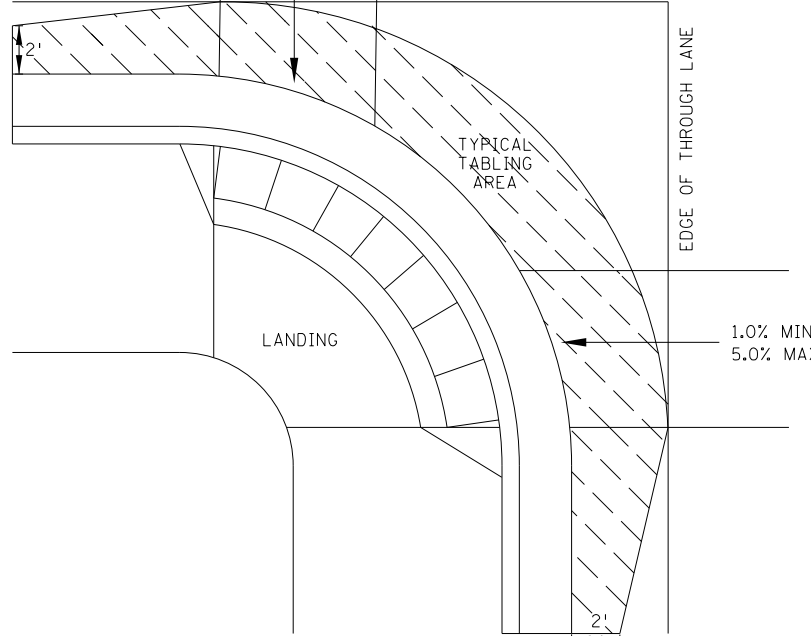
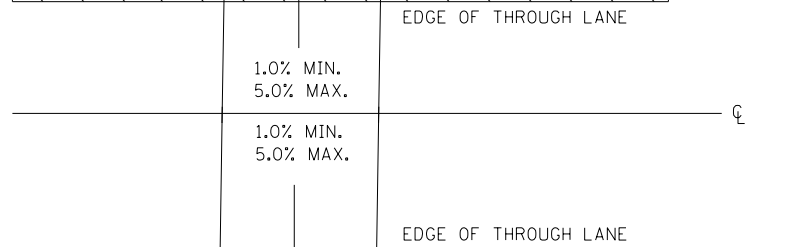
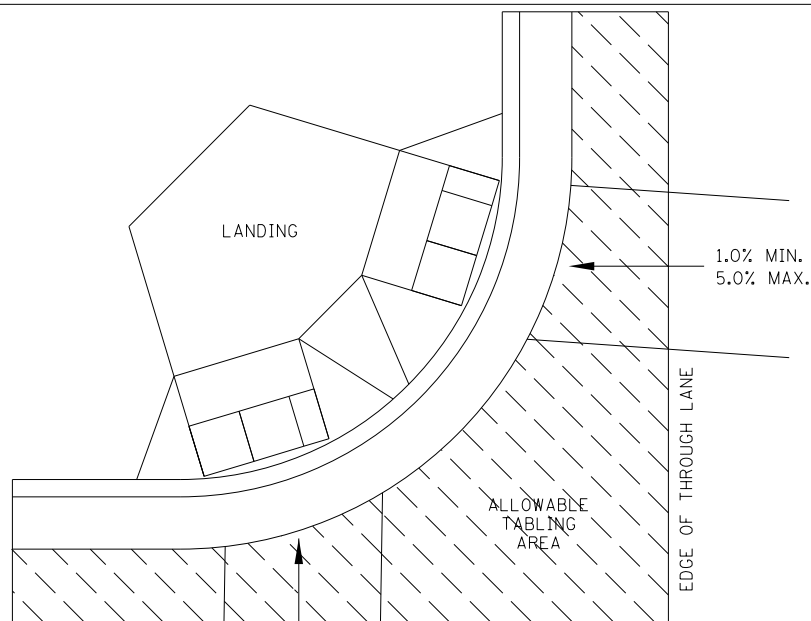
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PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250 (SHEET 5 OF 6)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 121 OF 131

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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:

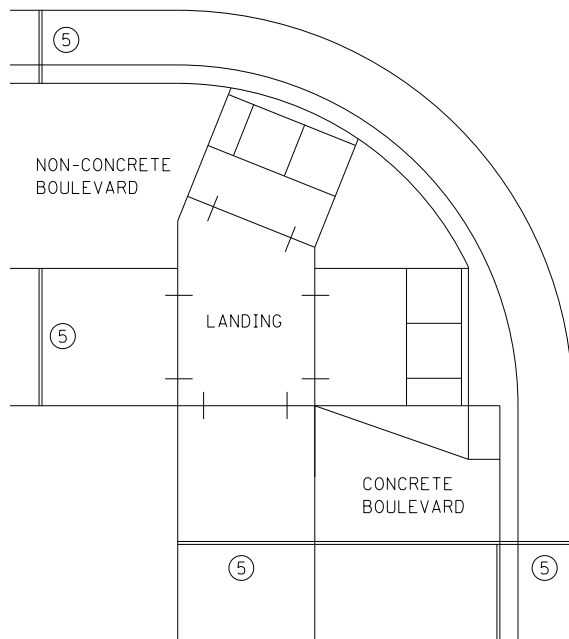
- 1) 1.0% MIN. CROSS-SLOPE OF THE ROAD
- 2) 5.0% MAX. CROSS-SLOPE OF THE ROAD
- 3) "TABLE" FLOW LINE UP TO 4% CHANGE FROM EXISTING SLOPE IN FRONT OF PEDESTRIAN RAMP
- 4) UP TO 2% CHANGE IN FLOW LINE FROM EXISTING SLOPE BEYOND THE PEDESTRIAN CURB RAMP

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.

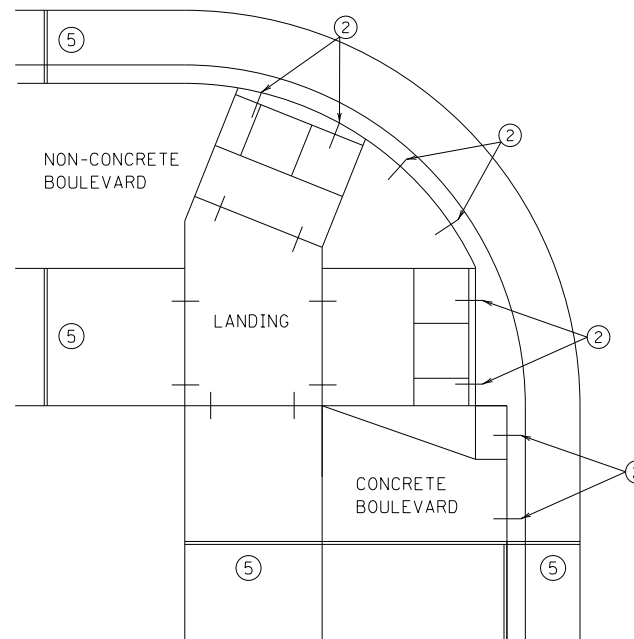
RAISING OF CURB LINES SHOULD OCCUR IN VERTICALLY CONSTRAINED AREAS. RAISE THE CURB LINES ENOUGH TO ALLOW COMPLIANT RAMPS OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

- 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

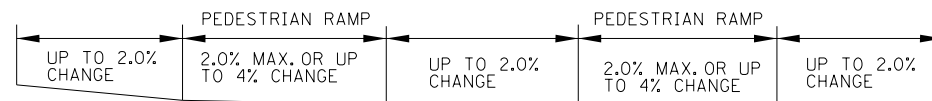
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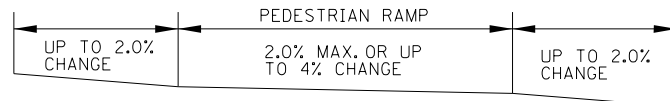
EXPANSION MATERIAL PLACEMENT FOR CONCRETE AND BITUMINOUS ROADWAYS



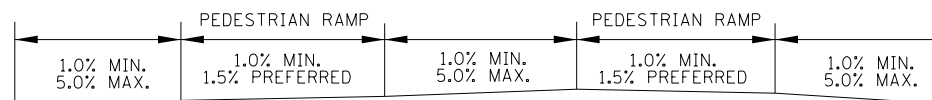
OPTIONAL CURB LINE REINFORCEMENT PLACEMENT ON BITUMINOUS ROADWAYS



FLOW LINE PROFILE "TABLE" - TWIN PERPENDICULARS



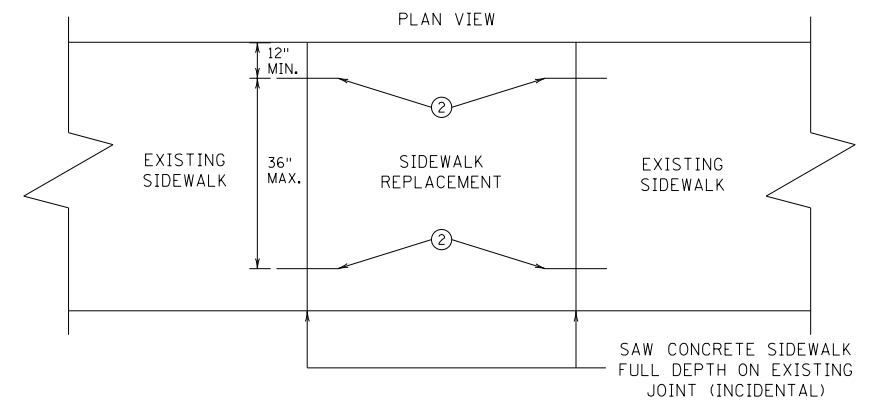
FLOW LINE PROFILE "TABLE" - FAN



FLOW LINE PROFILE RAISE - TWIN PERPENDICULARS

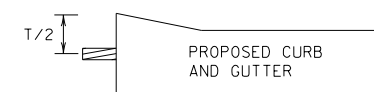
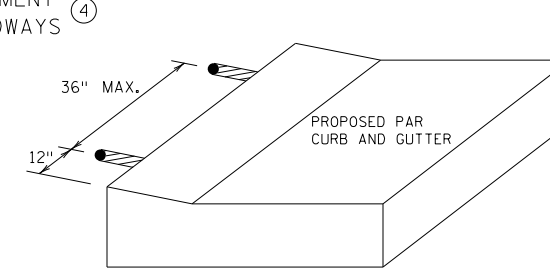


FLOW LINE PROFILE RAISE - FAN

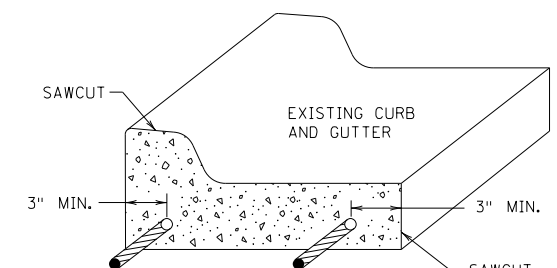


OPTIONAL SIDEWALK REINFORCEMENT

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

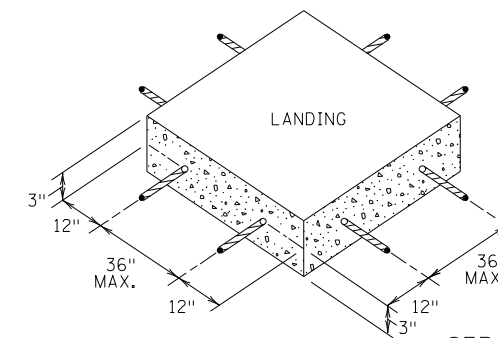


OPTIONAL CURB LINE REINFORCEMENT DETAILS

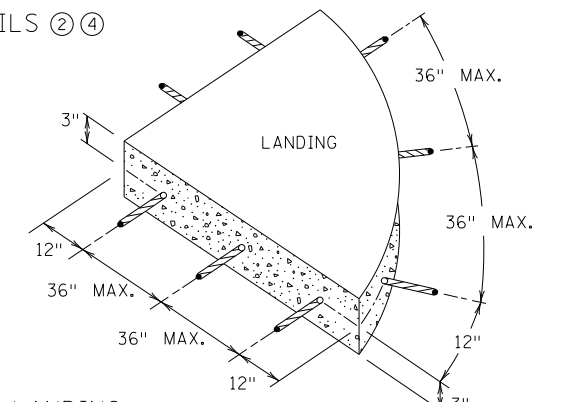


FOR USE ON CURB RAMP RETROFITS

CURB AND GUTTER REINFORCEMENT

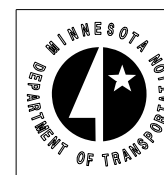


SEPARATE LANDING POUR REINFORCEMENT



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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PEDESTRIAN CURB RAMP DETAILS
STANDARD PLAN 5-297.250 (SHEET 6 OF 6)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 122 OF 131

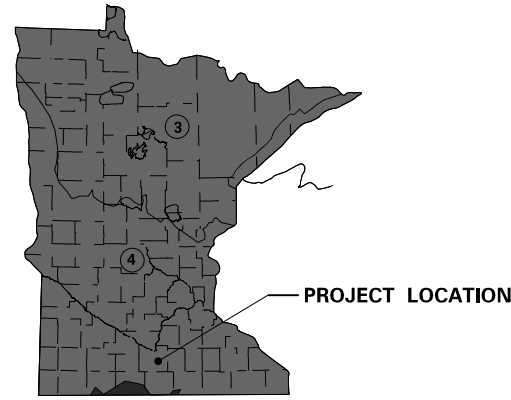
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GENERAL NOTES

- SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS.
- REFER TO MnDOT SPECIFICATIONS 2571, 2572, 3861, 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 2571.3D.2)
- 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 (3 OF 3)
FERTILIZER	SEE SPECIAL PROVISIONS
COMPOST	MnDOT 3890 COMPOST GRADE 2 UNLESS OTHERWISE SPECIFIED.
MULCH MATERIAL	MnDOT 3882 MULCH MATERIAL TYPE 6 UNLESS OTHERWISE SPECIFIED.
MASS PLANTING BEDS	PREPARE MASS PLANTING BEDS FOR PLANTS PLACED AT 15' 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 (3 OF 3)
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.

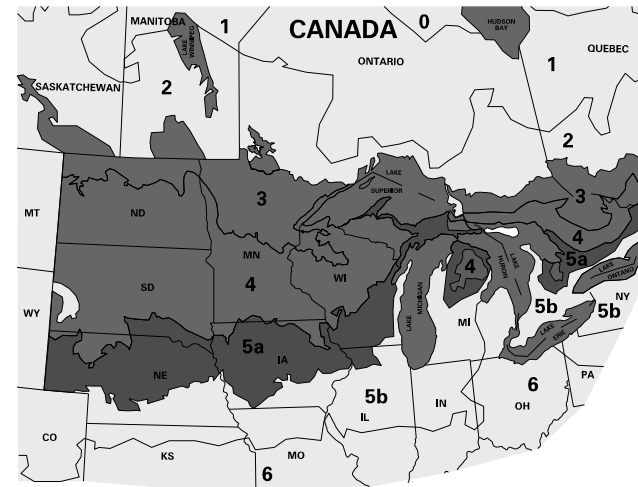
PLANTING PLAN DIMENSIONS	STATED DIMENSIONS SUPERCEDE SCALING FROM PLAN.	
WATERING GUIDELINES (MnDOT 2571.3G)	PLANT TYPE	AVERAGE GALLONS OF WATER PER APPLICATION
	MACHINE TRANSPLANTED TREES	50-100
	BALLED AND BURLAPPED TREES	20
	BARE ROOT AND CONTAINER TREES	15
	BALLED AND BURLAPPED SHRUBS	10
	BARE ROOT 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.		



1. BARE ROOT PERENNIALS MUST BE PLACED 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 PLACED DURING THE MONTH OF MAY (SPRING PLANTING) AND SEPTEMBER (FALL PLANTING) DURING THE FIRST YEAR OF THE PLANT ESTABLISHMENT PERIOD.
5. MACHINE 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 21 TO JUNE 1	APRIL 7 TO MAY 17		
	PERENNIALS	MAY 1 TO JUNE 30	MAY 1 TO JUNE 30		
	SEEDLINGS	APRIL 21 TO JUNE 1	APRIL 7 TO JUNE 1		
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



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

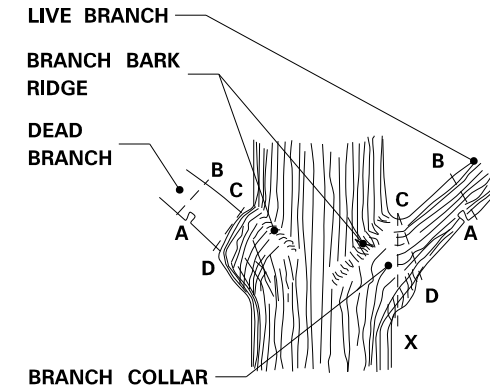
UNACCEPTABLE ZONES	
ZONES	LEGEND
0, 1, 2, 5b and 6	

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)

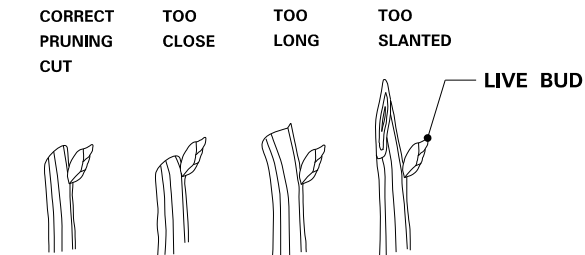


- STEPS TO PRUNING WITH PRUNING SAW:
1. CUT PART WAY THROUGH THE BRANCH AT POINT A.
 2. CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
 3. AT BRANCH COLLAR CUT FROM POINT C TO D.

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)

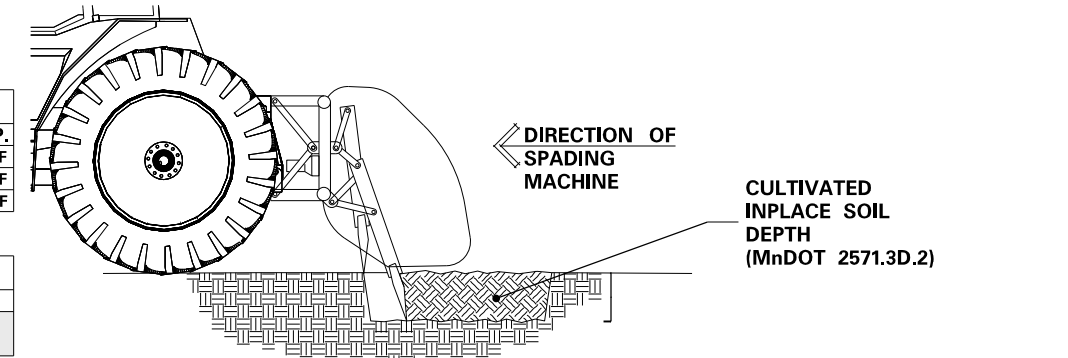


- PRUNING NOTES:
1. PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.
 2. THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
 3. AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
 4. IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY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

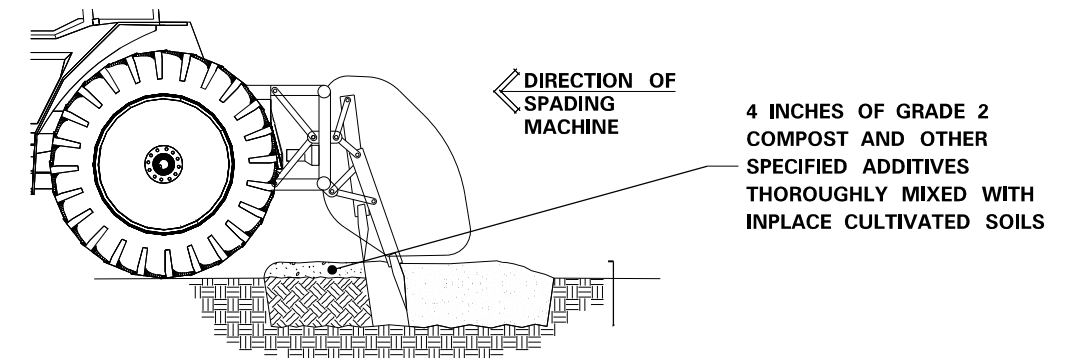
BRANCHES PRUNED TO LIVE BUD

PRUNING

(MnDOT 2571.3E.1 and 2571.3K.2.a(9))



PRIMARY TILLAGE - PASS 1



INCORPORATION TILLAGE - PASS 2

PLANTING SOIL

(MnDOT 2571.3D)

DISTRICT #: WSB & Associates
USER NAME: \$\$\$USER\$NAME\$\$\$
PATH & FILENAME: K:\03265-01\Cad\Plan\cd704100_spr02.dgn

REVISION:
APPROVED: DECEMBER 11, 2015
[Signature]
CHIEF ENVIRONMENTAL OFFICER

[Signature]
STATE DESIGN ENGINEER

REVISED:
APPROVED:
12-11-2015

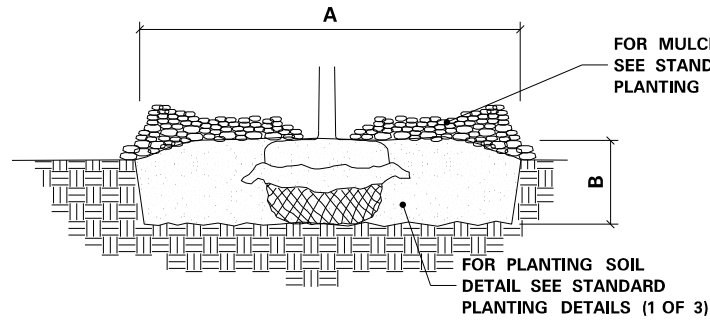
STANDARD PLANTING DETAILS
STANDARD PLAN 5-297.301 (SHEET 1 OF 3)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 123 OF 131

PLOTTED/REVISED:
4/16/2018

PLANTING HOLE DIMENSIONS

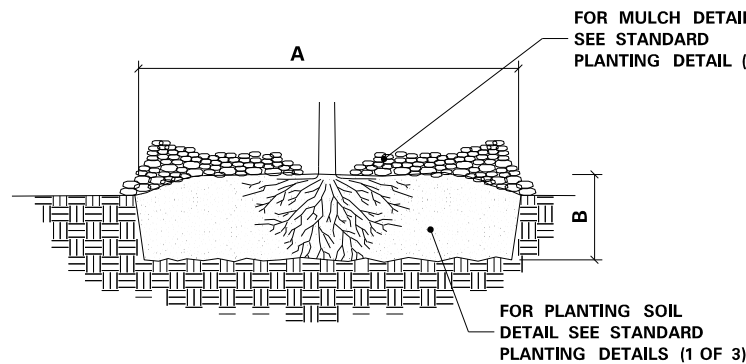
HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.

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.B.	48"	12"
	1" B.B.	54"	14"
	1.25" B.B.	60"	14"
	1.5 B.B.	66"	15"
	1.75" B.B.	72"	16"
	2" B.B.	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"
PERENNIAL HOLE DEPTH AND WIDTH SHALL BE BASED UPON ON-CENTER SPACING IN A CONTINUOUS TRENCH.	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"



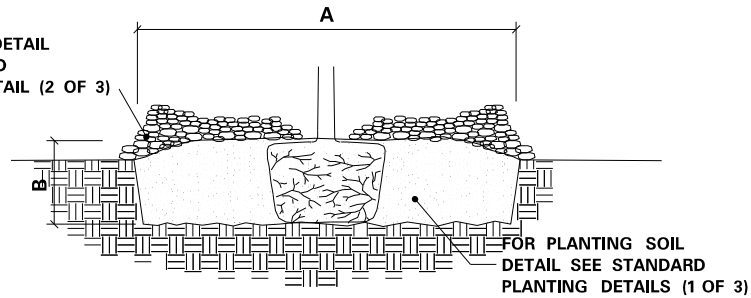
1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. PLACE PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP 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.

BALLED & BURLAPPED STOCK



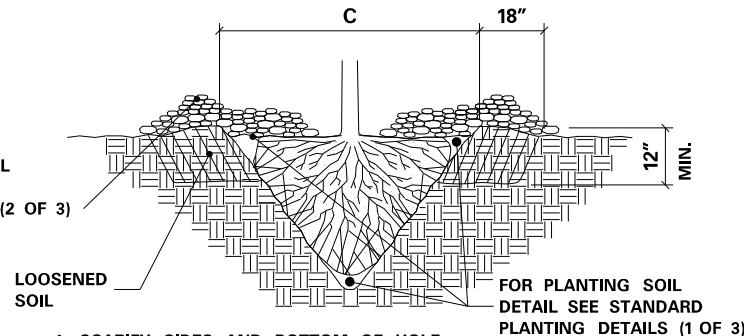
1. SOAK ROOTS IN WATER FOR AT LEAST ONE HOUR BUT NOT MORE THAN 24 HOURS PRIOR TO PLANTING.
2. SCARIFY SIDES AND BOTTOM OF HOLE.
3. PROCEED WITH CORRECTIVE PRUNING OF THE TOP AND ROOTS.
4. TRANSFER PLANT DIRECTLY FROM WATER TO HOLE. SET PLANT SO THE ROOT FLARE IS AT THE FINISHED SOIL ELEVATION. SPREAD 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.

**BARE ROOT STOCK
INSTALLATION OF PLANTS**



1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE TOP OF THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE.
5. PLUMB AND BACKFILL WITH PLANTING SOIL.
6. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANT AND FILL VOIDS.
7. BACK FILL VOIDS AND WATER A SECOND TIME.
8. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

CONTAINER STOCK



1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON NATIVE SOIL AT SAME DEPTH AS IT WAS PREVIOUSLY GROWN.
4. PLUMB AND BACKFILL WITH PLANTING SOIL.
5. AFTER PLANTING, LOOSEN THE SOIL IMMEDIATELY ADJACENT TO THE ROOT BALL TO A MINIMUM DISTANCE OF 18" AND A MINIMUM DEPTH OF 12".
6. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANT AND FILL VOIDS.
7. BACK FILL VOIDS AND WATER A SECOND TIME.
8. 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'

MACHINE MOVED STOCK

PLANTING HOLE DIMENSIONS

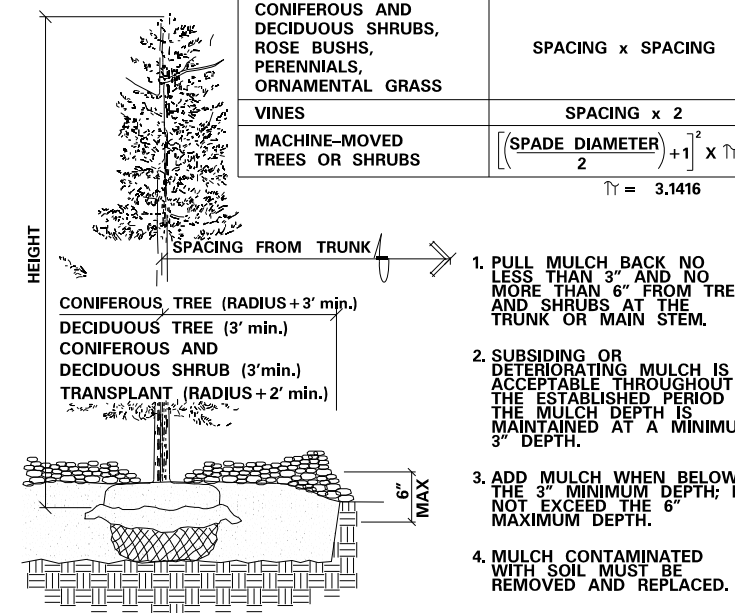
HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.

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" B.B.	24"	7"
	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"
VINES	2' SEEDLING	36"	18"
	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"	

MULCH AREA CALCULATOR

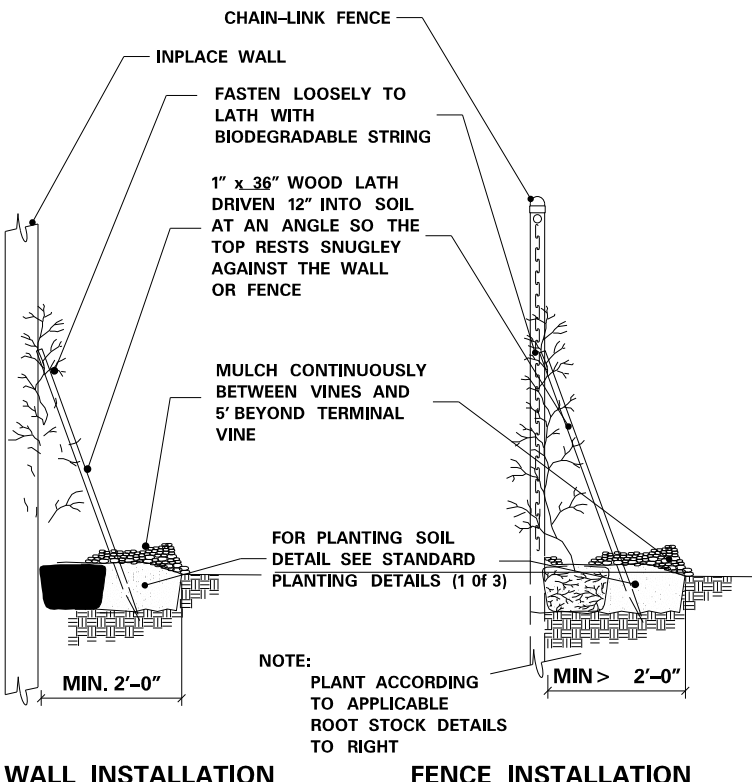
TYPE OF PLANT	SQ. FT. PER PLANT
CONIFEROUS TREES	$\left[\frac{3}{5} \times \text{HEIGHT}\right] + 3 \times \pi$
DECIDUOUS AND ORNAMENTAL TREES	$3^2 \times \pi$
CONIFEROUS AND DECIDUOUS SHRUBS, ROSE BUSHES, PERENNIALS, ORNAMENTAL GRASS	SPACING x SPACING
VINES	SPACING x 2
MACHINE-MOVED TREES OR SHRUBS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

π = 3.1416



1. PULL MULCH BACK NO LESS THAN 3" AND NO MORE THAN 6" FROM TREES AND SHRUBS AT THE TRUNK OR MAIN STEM.
2. SUBSIDING OR DETERIORATING MULCH IS ACCEPTABLE THROUGHOUT THE ESTABLISHED PERIOD IF THE MULCH DEPTH IS MAINTAINED AT A MINIMUM 3" DEPTH.
3. ADD MULCH WHEN BELOW THE 3" MINIMUM DEPTH; DO NOT EXCEED THE 6" MAXIMUM DEPTH.
4. MULCH CONTAMINATED WITH SOIL MUST BE REMOVED AND REPLACED.

MULCH



**WALL INSTALLATION
FENCE INSTALLATION
INSTALLATION OF VINES**

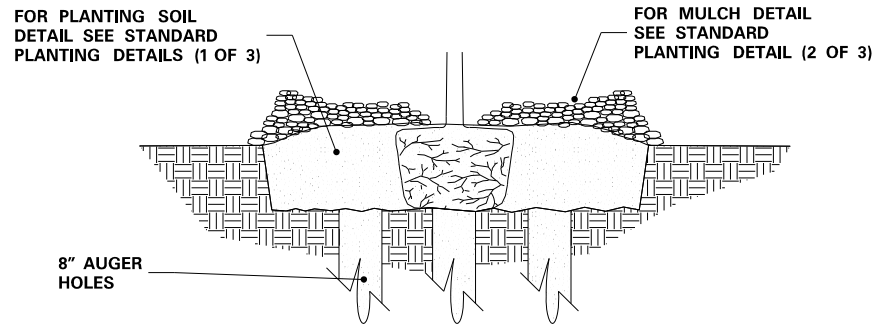
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USER NAME: \$\$\$USER\$NAME\$\$\$
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REVISION:
APPROVED: DECEMBER 11, 2015
[Signature]
CHIEF ENVIRONMENTAL OFFICER

REVISOR:
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STATE DESIGN ENGINEER
12-11-2015

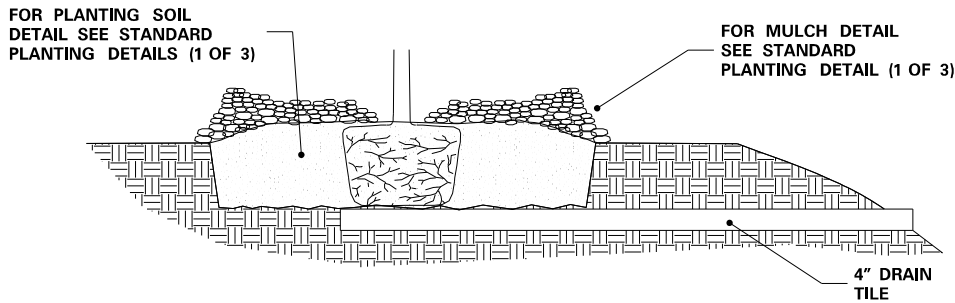
(MnDOT 2571.3F)
STANDARD PLANTING DETAILS
STANDARD PLAN 5-297.301 (SHEET 2 OF 3)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 124 OF 131
(MnDOT 2571.3H)

PLOTTED/REVISED:
4/16/2018



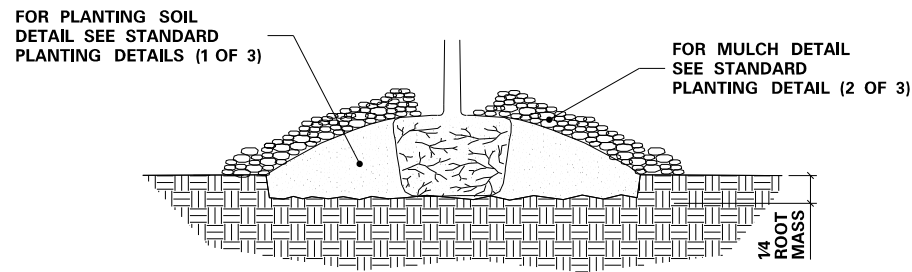
- EXCAVATE HOLE OR BED TO ALLOW PLACING THE TOP OF ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.
- AUGER 8" DIAMETER HOLES ENTIRELY THROUGH IMPERVIOUS OR POORLY DRAINED HARD PAN SOIL LAYER TO ADEQUATELY DRAIN SUBSOIL.
- TEST FOR POSITIVE DRAINAGE. RE-AUGER AN ADDITIONAL 8" IF NECESSARY FOR POSITIVE DRAINAGE.
- 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 (2 OF 3).

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 (2 OF 3).

TILE DRAINAGE



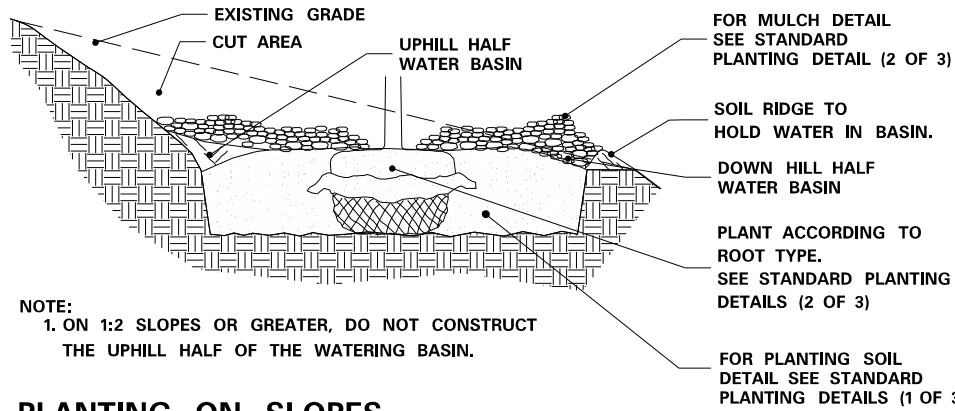
- EXCAVATE HOLE OR BED 1/4 THE DEPTH OF THE ROOT MASS.
- SET ROOT MASS IN HOLE.
- CONSTRUCT BERM WITH PLANTING SOIL. EXTEND THE BERM BASE TO A WIDTH OF 3 TIMES THE BERM HEIGHT.
- COMPLETE PLANTING ACCORDING ROOT TYPE. SEE STANDARD PLANTING DETAILS (2 OF 3).

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.

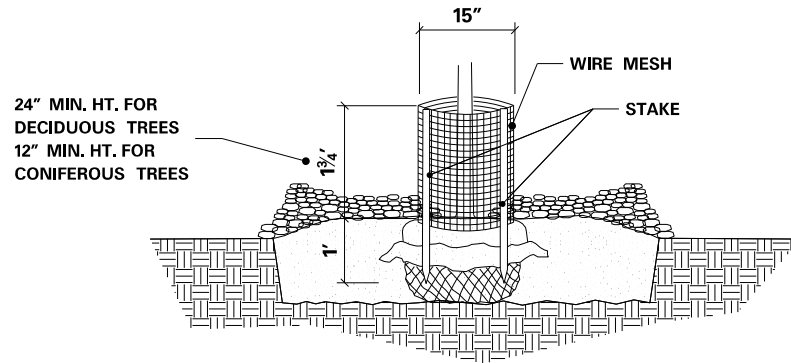
PLANTING DETAIL FOR POORLY DRAINED SOILS

(MnDOT 2571.3D.2(8))



NOTE:
1. ON 1:2 SLOPES OR GREATER, DO NOT CONSTRUCT THE UPHILL HALF OF THE WATERING BASIN.

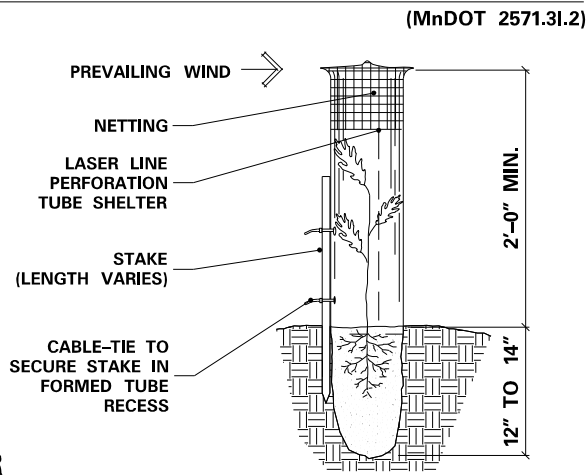
PLANTING ON SLOPES



- 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 18" 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.

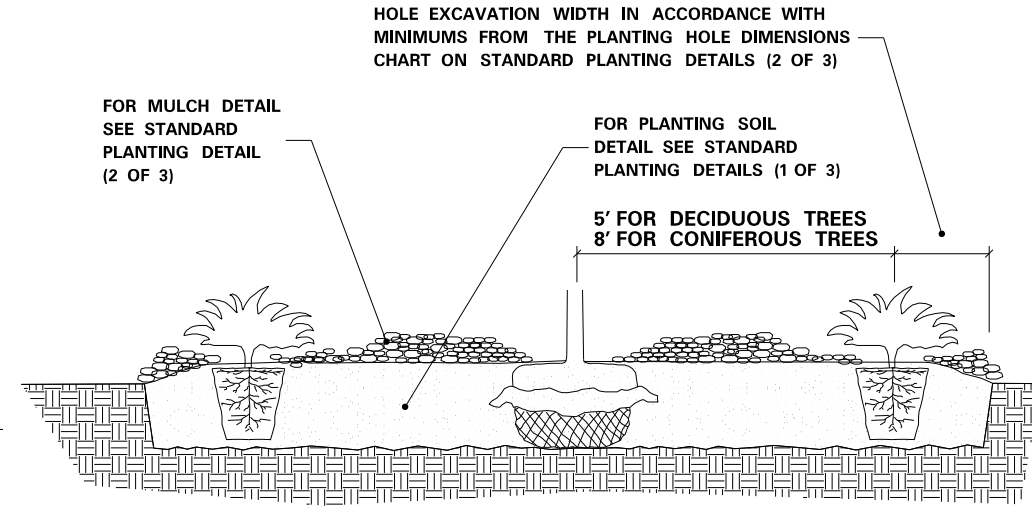
RODENT PROTECTION

- 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.
- PLACE A PLASTIC PHOTODEGRADABLE NETTING COVER AND SLEEVE OVER THE TOP OF THE TUBE. PULL NETTING DOWN AS SHOWN.

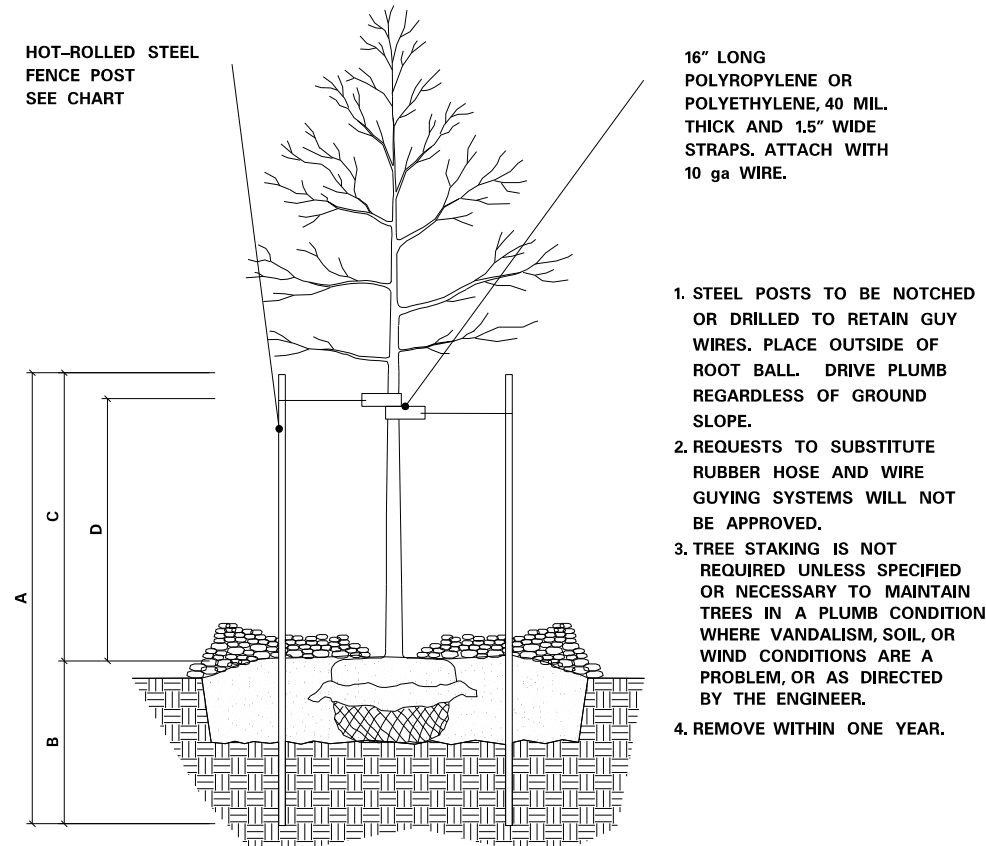


SEEDLING TREE SHELTER

(MnDOT 2571.3I.4)



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.

STEEL POST SIZING

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

STAKING AND GUYING

(MnDOT 2571.3I.1)

DISTRICT #: WSB & Associates
USER NAME: \$\$\$USER\$NAME\$\$\$
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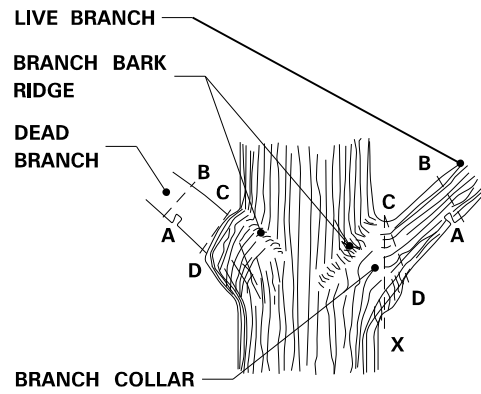
REVISION:
APPROVED: DECEMBER 11, 2015
Prof. Clive
CHIEF ENVIRONMENTAL OFFICER

MINNESOTA
DEPARTMENT OF TRANSPORTATION
Tom Jha
STATE DESIGN ENGINEER

REVISED:
APPROVED:
12-11-2015

STANDARD PLANTING DETAILS
STANDARD PLAN 5-297.301 (SHEET 3 OF 3)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 125 OF 131

PLOTTED/REVISED:
4/16/2018



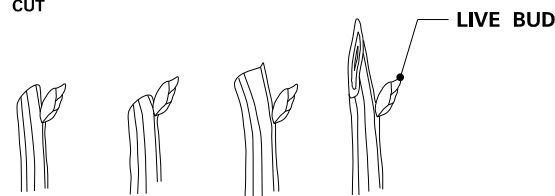
- STEPS TO PRUNING WITH PRUNING SAW:**
1. CUT PART WAY THROUGH THE BRANCH AT POINT A.
 2. CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
 3. AT BRANCH COLLAR CUT FROM POINT C TO D.

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)

- CORRECT PRUNING CUT**
- TOO CLOSE
 - TOO LONG
 - TOO SLANTED

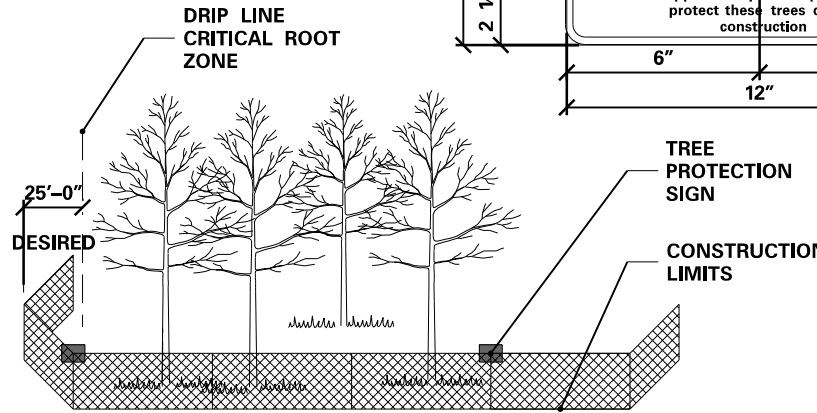
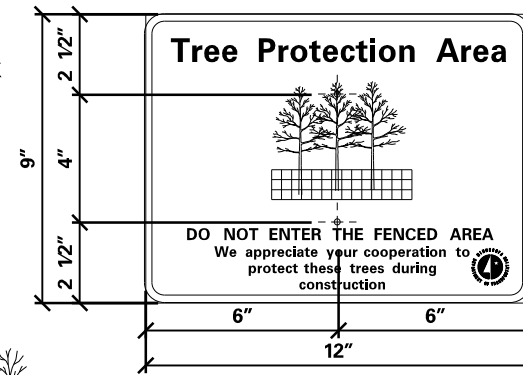


BRANCHES PRUNED TO LIVE BUD

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.

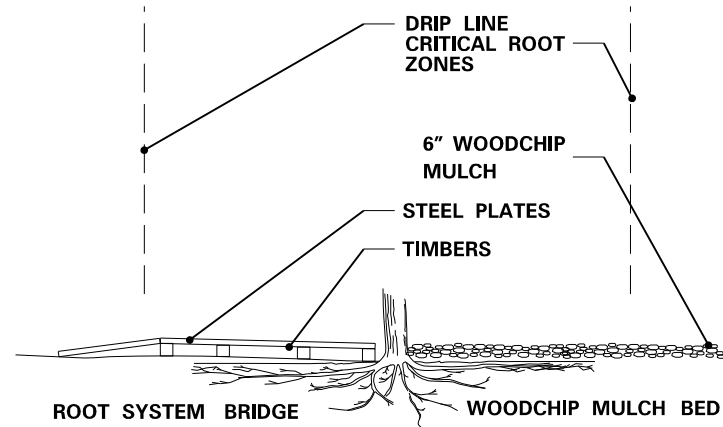
1. FABRICATE 12" X 9" X 3/8" SIGN WITH 0.75" RADIUS CORNERS.
2. SIGN SHALL BE WHITE WITH BLACK LETTERING.
3. ATTACH SIGN TO POST USING 1" LENGTH WOOD SCREWS.



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

TEMPORARY FENCE

(MnDOT 2571.3E.1 and 2571.3K.2.a(9))

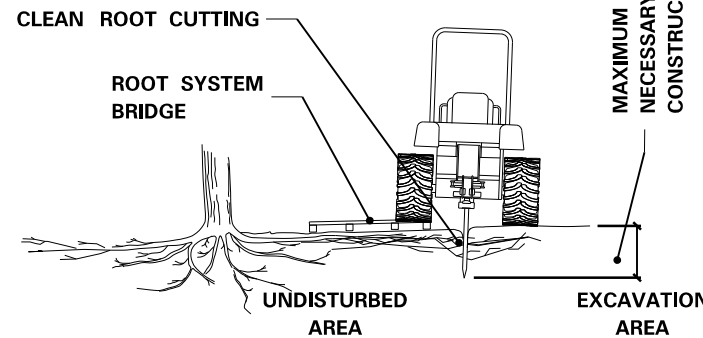


IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, THE CONTRACTOR MUST EITHER:

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 A TYPE III GEOTEXTILE (MnDOT 3733).

OTHER VEGETATION PROTECTION MEASURES

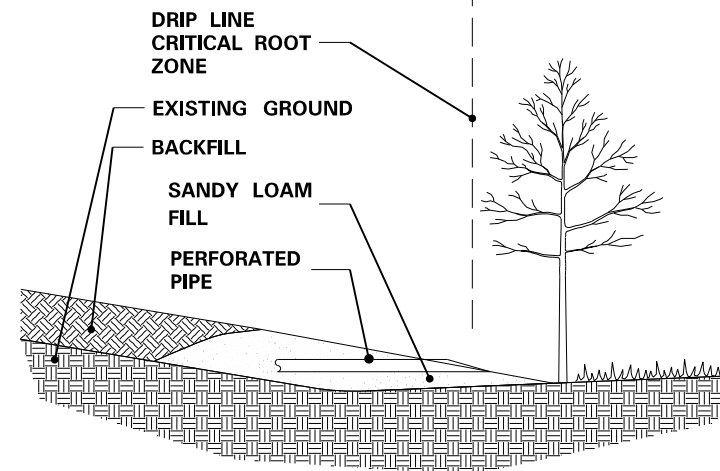
(MnDOT 2572.3A.12)



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

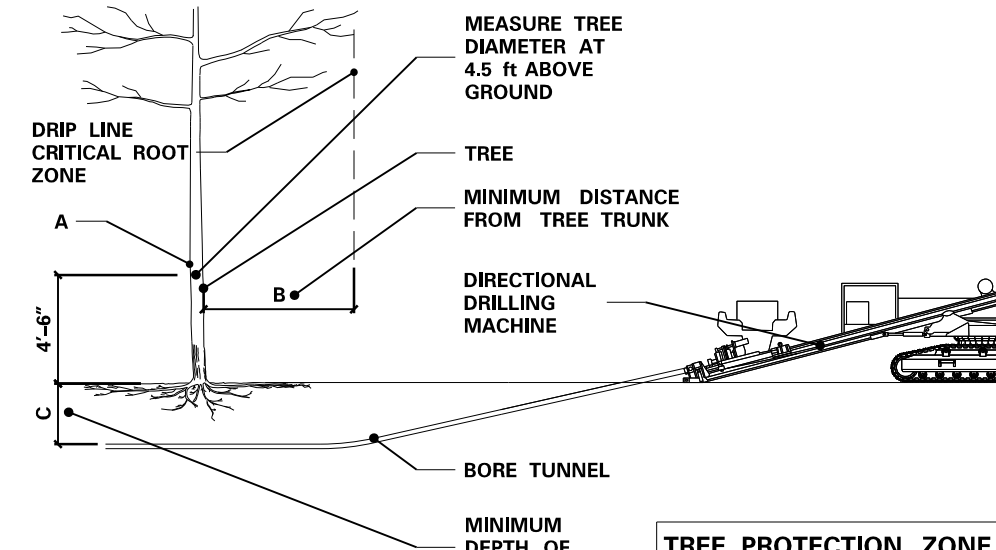
(MnDOT 2572.3A.2)



1. ANY FILL REQUIRED WITHIN THE DRIPLINE OF TREES, IS UNCOMPACTED ROOTING TOPSOIL BORROW.
2. EXCESSIVE FILL MAY REQUIRE PLACING PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END OPENING AS AN AERATION SYSTEM.

ROOTING TOPSOIL BORROW

(MnDOT 2572.3A.4)



NOTE:

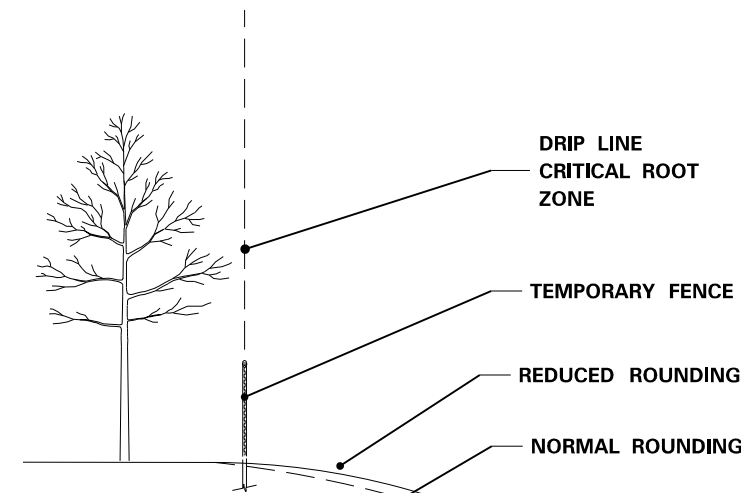
1. (A) IS THE DIAMETER OF TREES MEASURED 4'-6" FEET ABOVE THE GROUND AND IS TERMED THE "DIAMETER AT BREAST HEIGHT," (DBH).
2. USING A TREE DIAMETER TAPE, WRAP THE TAPE AROUND THE GIRTH OF THE TREE, AT THE DBH, BEING CAREFUL NOT TO TWIST THE TAPE.

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 2572.3A.5)



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

REVISION:
APPROVED: DECEMBER 11, 2015
Chief Environmental Officer
CHIEF ENVIRONMENTAL OFFICER

MINNESOTA DEPARTMENT OF TRANSPORTATION
Tom G...
STATE DESIGN ENGINEER

REVISED:
APPROVED:
12-11-2015

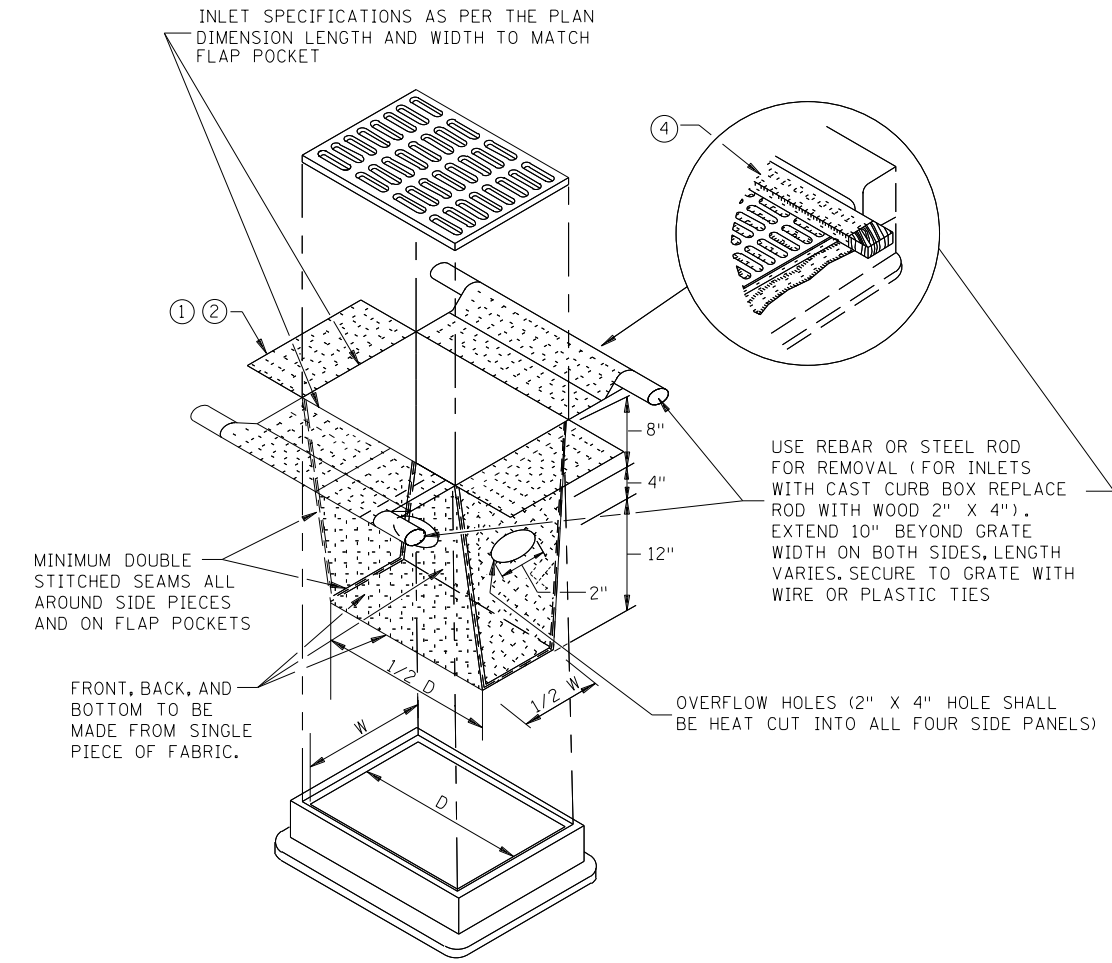
PROTECTION AND RESTORATION OF VEGETATION
STANDARD PLAN 5-297.302 (SHEET 1 OF 1)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 126 OF 131

DISTRICT #: WSB & Associates
USER NAME: \$\$\$USER\$NAME\$\$\$
PATH & FILENAME: K:\03265-01\Cad\Plan\cd704100_spr02.dgn

PLOTTED/REVISED:
4/6/2018

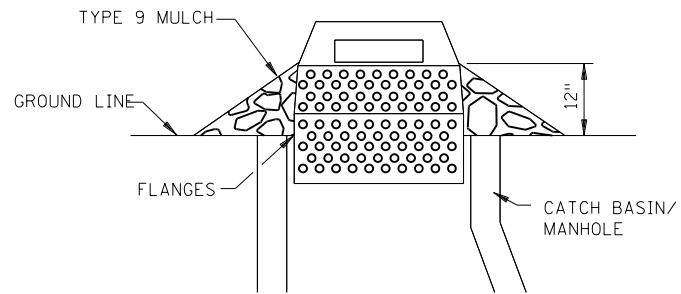
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FILE NAME:
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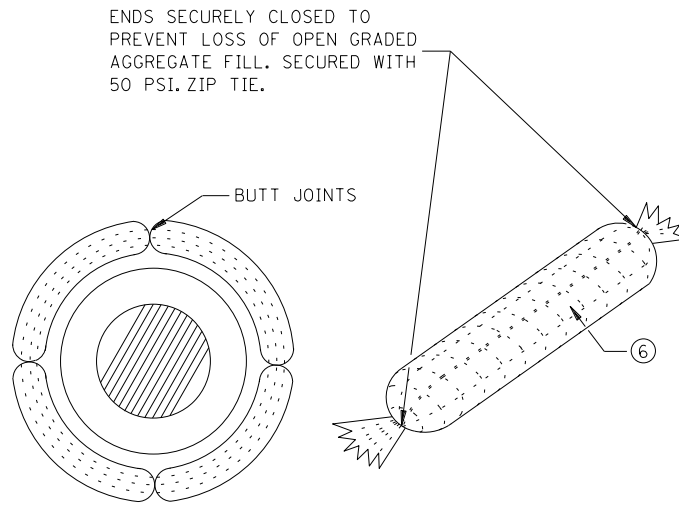
FILTER BAG INSERT ③

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

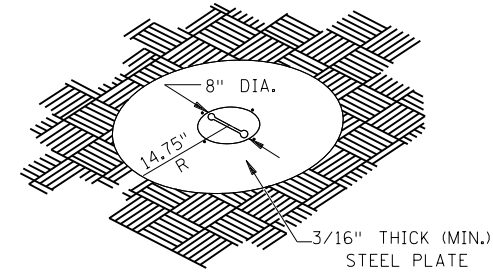
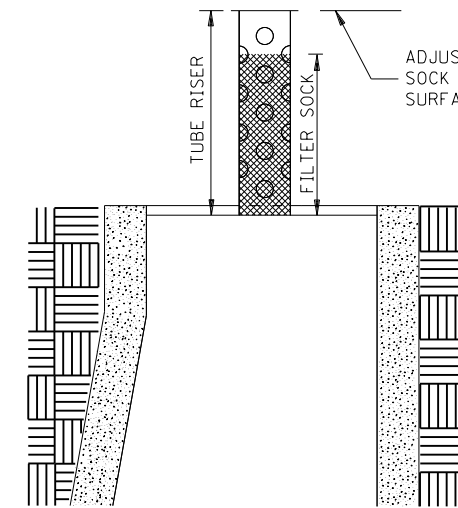
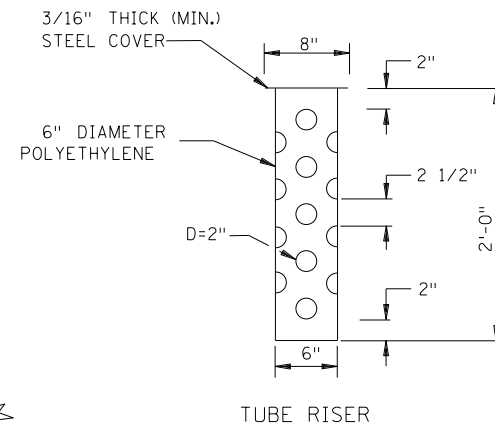


SEDIMENT CONTROL INLET HAT

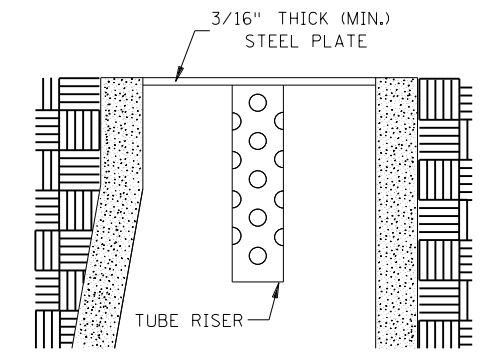
NOTE:
THE SEDIMENT CONTROL BARRIER SHALL BE A METAL OR PLASTIC/POLYETHYLENE RISER SIZED TO FIT INSIDE THE CATCH BASIN/MANHOLE; HAVE PERFORATIONS TO ALLOW FOR WATER INFILTRATION; HAVE AN OVERFLOW OPENING, FLANGES AND A LID/COVER.



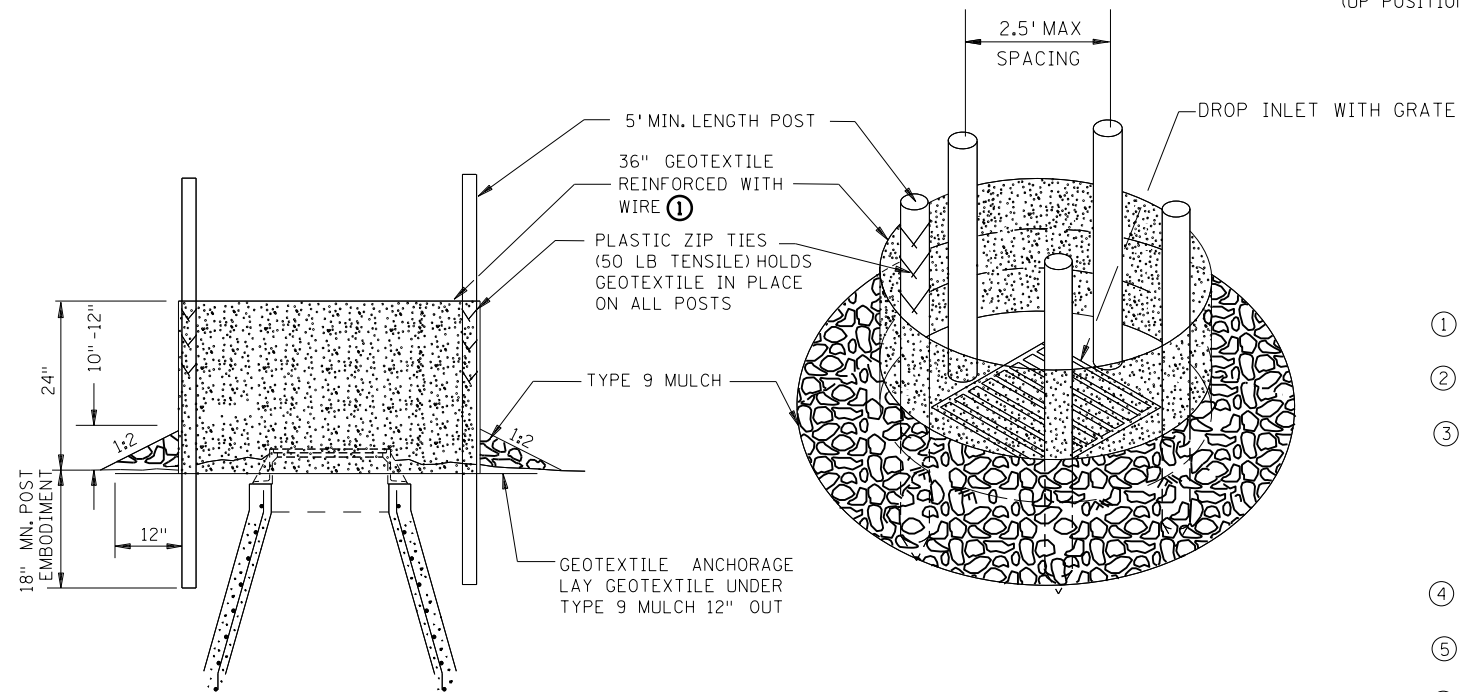
ROCK LOG/COMPOST LOG



PERSPECTIVE VIEW



POP-UP HEAD



SILT FENCE RING AND ROCK FILTER BERM
USE WHERE INLET DRAINS IN AN AREA WITH SLOPES AT 1:3 OR LESS

NOTES:

SEE SPECS. 2573, 3137, & 3886.

DEVICES MUST BE ADJUSTED ACCORDINGLY AS TO NOT CAUSE FLOODING ON ROADWAY THAT WOULD IMPEDE TRAFFIC FLOW.

- ① ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886.
- ② FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ③ INSTALLATION NOTES:
DO NOT PLACE FILTER BAG INSERT IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE PLACED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES. WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCH SIDE CLEARANCE.
- ④ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE FLAP POCKETS.
- ⑤ SOCK HEIGHT MUST NOT BE SO HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE FLOODING OF THE ROADWAY.
- ⑥ GEOTEXTILE SOCK BETWEEN 4-10 FEET LONG AND 4-6 INCH DIAMETER. SEAM TO BE JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR PROVIDE A HEAT BONDED SEAM (OR APPROVED EQUIVALENT). FILL ROCK LOG WITH OPEN GRADED AGGREGATE CONSISTING OF SOUND DURABLE PARTICLES OF COARSE AGGREGATE CONFORMING TO SPEC. 3137 TABLE 3137-1; CA-3 GRADATION.

REVISION:
APPROVED: 2-28-2017
Chief Environmental Officer
CHIEF ENVIRONMENTAL OFFICER



Tom Sja
STATE DESIGN ENGINEER

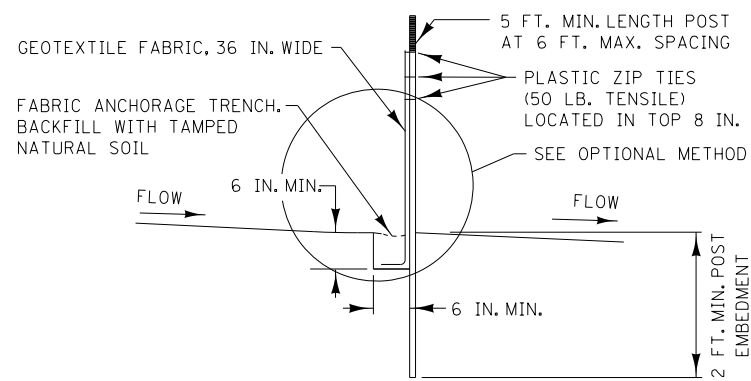
REVISED:
APPROVED:
2-28-2017

TEMPORARY SEDIMENT CONTROL
STANDARD PLAN 5-297.405 (SHEET 4 OF 8)

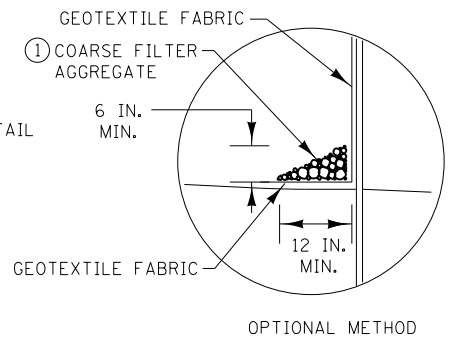
S.P. 0704-110 (TH 22 = 39)

SHEET NO. 127 OF 131

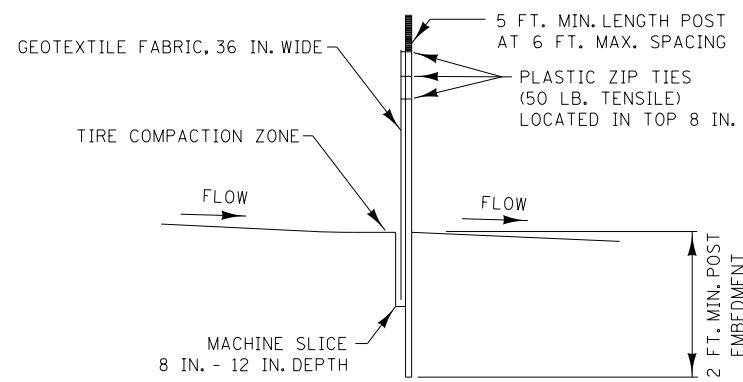
PLOTTED/REVISED:
4/16/2018



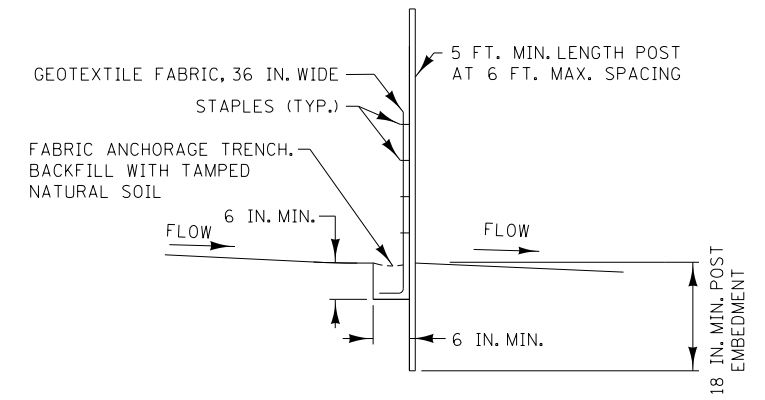
SILT FENCE TYPE HI ②
(HAND INSTALLED)



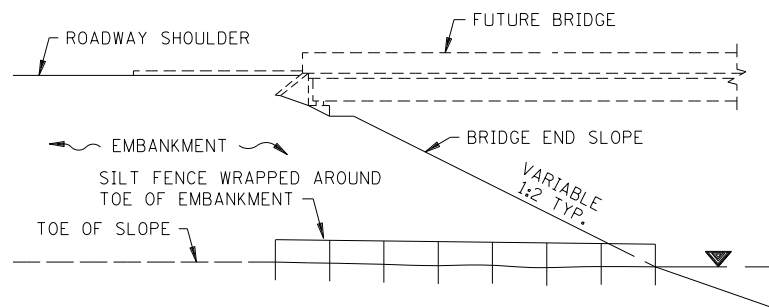
OPTIONAL METHOD



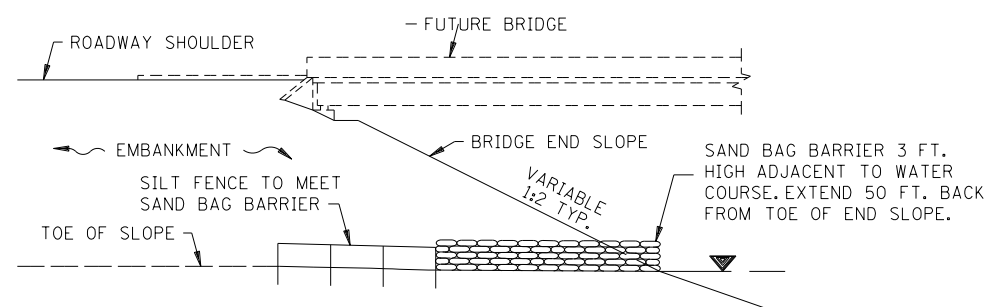
SILT FENCE TYPE MS ②
(MACHINE SLICED)



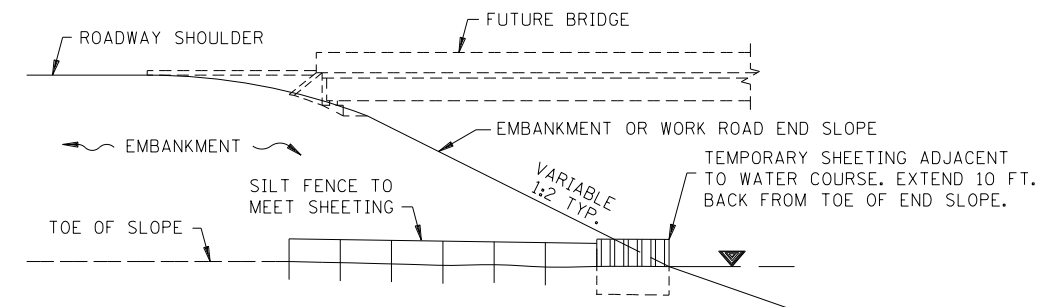
SILT FENCE TYPE PA ③
(PREASSEMBLED)



SILT FENCE ONLY ④

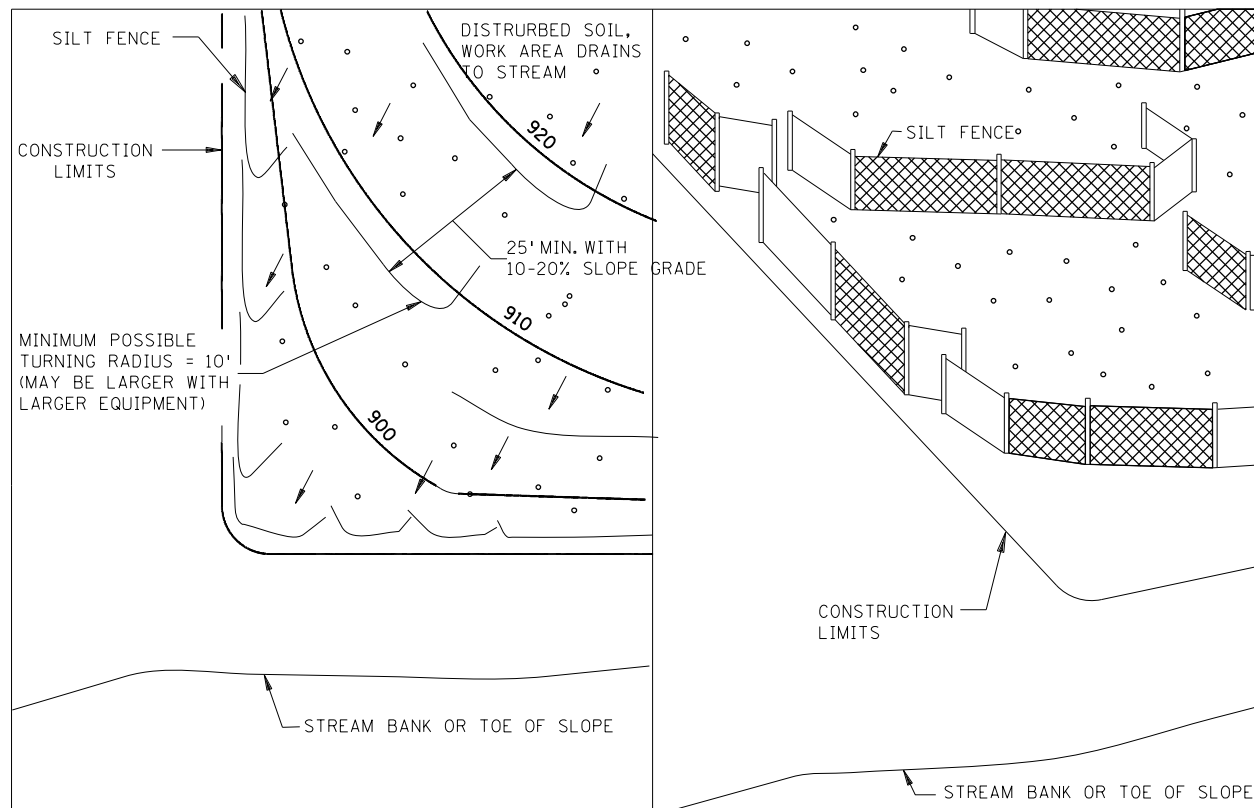


SILT FENCE WITH SAND BAGS ⑤



SILT FENCE WITH SHEETING ⑥

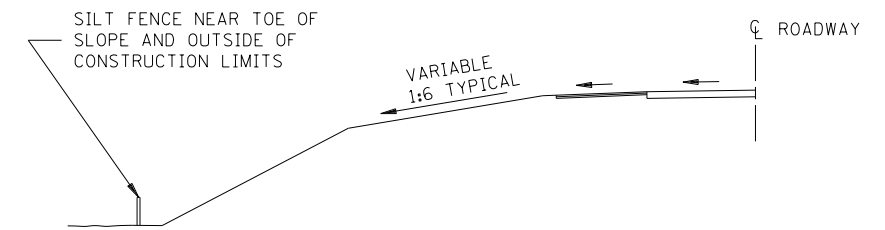
INSTALLATION AT BRIDGE EMBANKMENT ADJACENT TO WATER



PLAN VIEW

PERSPECTIVE VIEW

J-HOOK INSTALLATION



LOCATION AT TOE OF ROADWAY EMBANKMENT

NOTES:

- SEE SPECS. 2573, 3149 & 3886.
- ① COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
- ② TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 1 ACRE.
- ③ TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.
- ④ WATER COURSE FLOW VELOCITY: STANDING. CONTRIBUTING SLOPE AREA: 1/2 ACRE.
- ⑤ WATER COURSE FLOW VELOCITY: 1 TO 7 FT./SEC. CONTRIBUTING SLOPE AREA: 1 ACRE.
- ⑥ WATER COURSE FLOW VELOCITY: 8 TO 15 FT./SEC. CONTRIBUTING SLOPE AREA: 3 ACRES.

DISTRICT #: WSB & Associates
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FILE NAME:
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REVISION:
APPROVED: 2-28-2017
[Signature]
CHIEF ENVIRONMENTAL OFFICER

m
MINNESOTA
DEPARTMENT
OF
TRANSPORTATION

[Signature]
STATE DESIGN ENGINEER

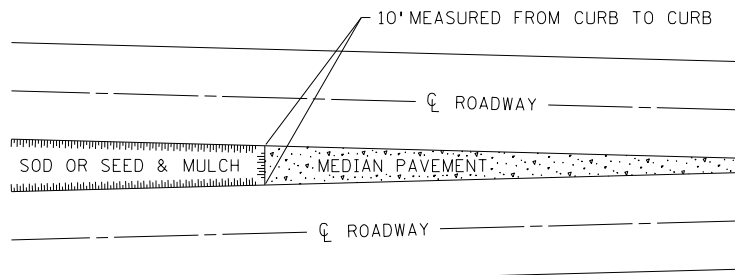
REVISED:
APPROVED:
2-28-2017

TEMPORARY SEDIMENT CONTROL
STANDARD PLAN 5-297.405 (SHEET 6 OF 8)

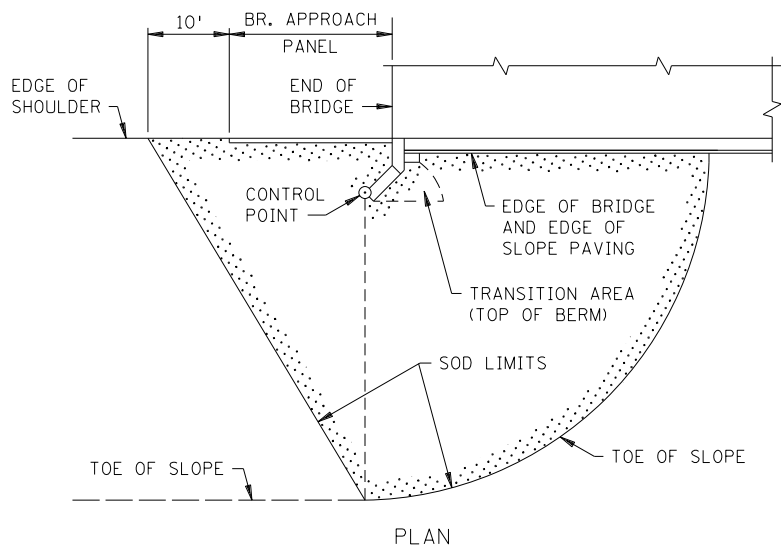
S.P. 0704-110 (TH 22 = 39)

SHEET NO. 128 OF 131

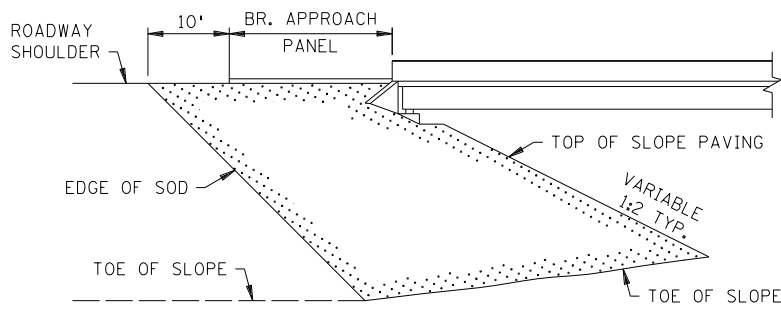
PLOTTED/REVISED:
4/6/2018



SODDING LIMITS AT GORE AREA

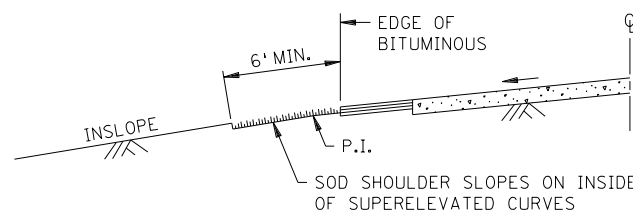


PLAN

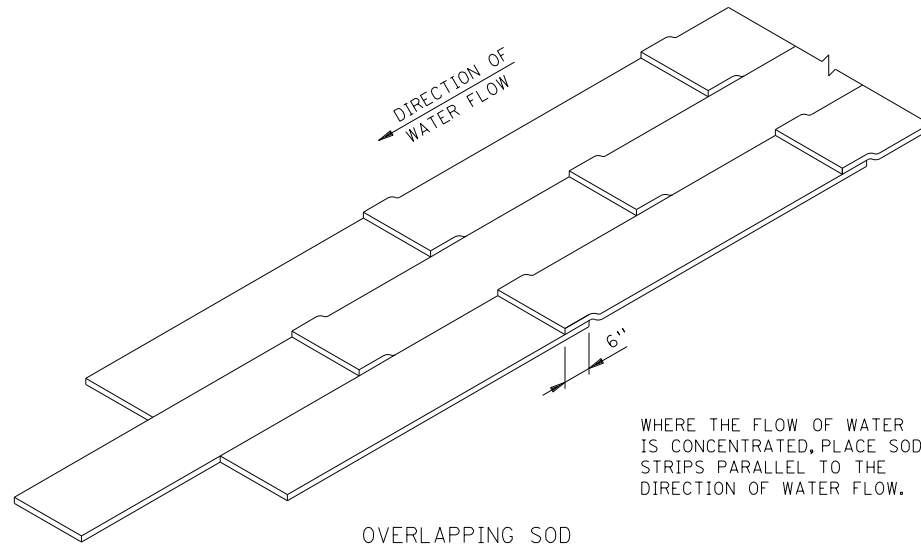


ELEVATION

SODDING LIMITS AT BRIDGE APPROACH FILLS

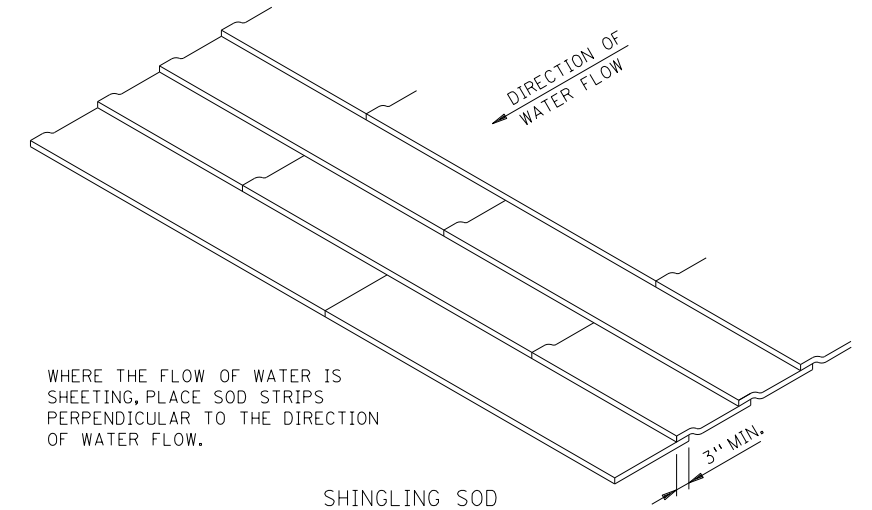


SODDING INSLOPES OF SUPERELEVATED CURVES



OVERLAPPING SOD

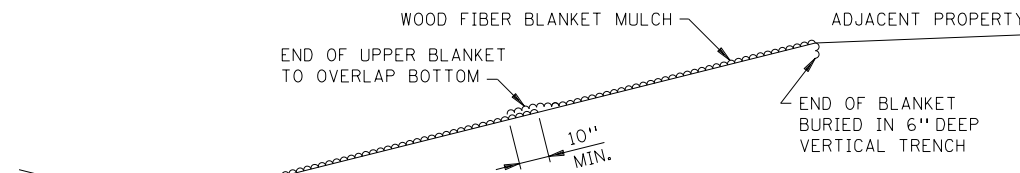
WHERE THE FLOW OF WATER IS CONCENTRATED, PLACE SOD STRIPS PARALLEL TO THE DIRECTION OF WATER FLOW.



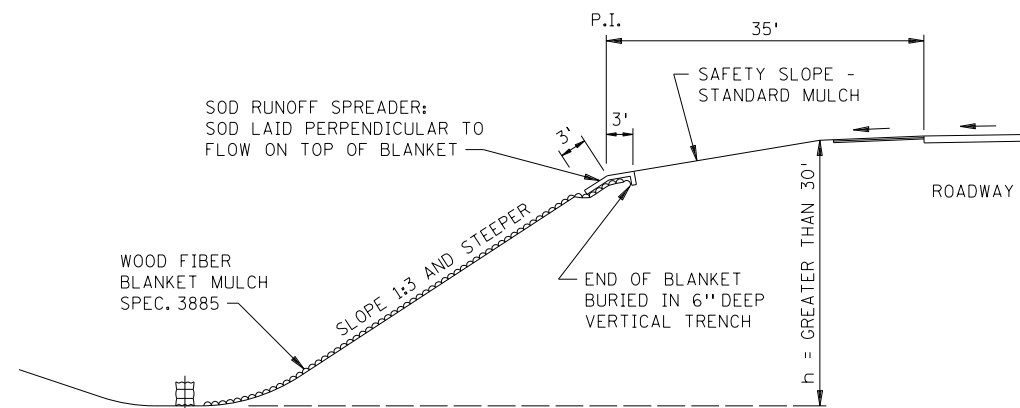
SHINGLING SOD

WHERE THE FLOW OF WATER IS SHEETING, PLACE SOD STRIPS PERPENDICULAR TO THE DIRECTION OF WATER FLOW.

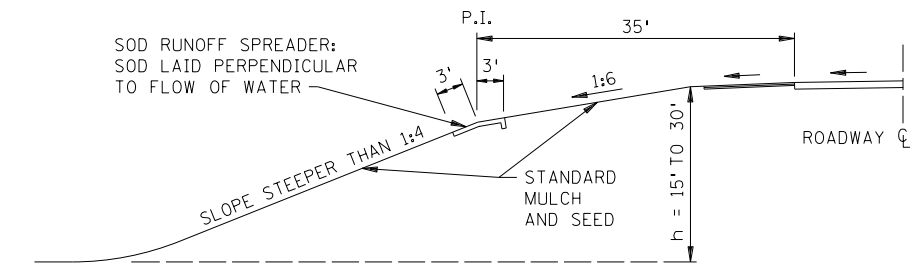
SPECIAL SOD PLACEMENT TECHNIQUES



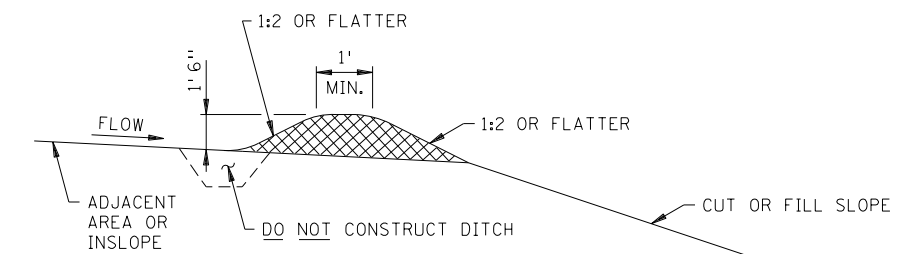
WOOD FIBER BLANKET INSTALLATION ON A CUT SLOPE



WOOD FIBER BLANKET INSTALLATION ON AN INSLOPE
(WHEN REQUIRED)



BROKEN-BACK SAFETY FILL SLOPE



PERMANENT SLOPE PROTECTION DIKE

DISTRICT #: WSB & Associates
USER NAME: \$\$\$USER\$NAME\$\$\$
PATH & FILENAME: K:\03265-01\Cad\Plan\cd704100_spr03.dgn

FILE NAME:
@FILENAME@

REVISION:
APPROVED: 8-6-2014
Chief Environmental Officer
CHIEF ENVIRONMENTAL OFFICER

MINNESOTA
DEPARTMENT OF TRANSPORTATION
REVISOR:
APPROVED: 8-6-2014
STATE DESIGN ENGINEER

PERMANENT SEDIMENT CONTROL
STANDARD PLAN 5-297.406 (SHEET 1 OF 1)
S.P. 0704-110 (TH 22 = 39) SHEET NO. 129 OF 131

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

PROJECT NAME / LOCATION

S.P. 0704-100 is located on T.H. 22 from approximately 0.3 miles north of T.H.30 to approximately 0.22 miles north of C.S.A.H. 15, in the county of Blue Earth, between the Cities of Mankato and Mapleton.
 Latitude: 44.008714 Longitude: -93.959534

ENVIRONMENTAL REVIEW

A Modified Final Phase I Environmental Site Assessment was completed for the Project in December 2015. It was found that there are two high, sixteen medium, and fourteen low risk sites within the project corridor. A Phase II investigation is in progress. If contaminated materials or groundwater are encountered during the project, the contractor shall stop work immediately and contact the project owner. The City of Mapleton has a wellhead protection area, but does not have an approved Wellhead Protection Plan at this time.

PROJECT DESCRIPTION / NARRATIVE

The project corridor extends from approximately 0.3 miles north of T.H. 30 to approximately 0.22 miles north of C.S.A.H. 15. The Project corridor passes primarily through rural farmland, and consists of reconstruction of the existing roadway, including stormwater management features; turn lanes, utilities, and appurtenances. Replacement of the Big Cobb River bridge at the Town of Beauford is also a part of this project. The project is expected to begin in 2017, with substantial completion in 2018.

LONG TERM MAINTENANCE AND OPERATION

MnDOT District 7 maintenance staff is responsible for the long term maintenance and operation of the permanent stormwater system.

PROJECT CONTACTS

The project engineer and contractor are responsible for implementation of the SWPPP and installation, inspection, and maintenance of the erosion prevention and sediment control BMPs before, during, and after construction until the Notice of Termination (NOT) has been submitted with the Minnesota Pollution Control Agency (MPCA). MnDOT District 7 staff and members of MnDOT's Office of Environmental Stewardship are also available for technical assistance.

MnDOT District 7	MnDOT District 7	Contractor is:
Resident Engineer	Maintenance Supervisor (owner)	Co-permittee
Dan Pirkel	Bryan Lillie	Name
507-304-6200	507-304-6100	Phone
2151 Bassett Drive	2151 Bassett Drive	Address
Mankato, MN 56001	Mankato, MN 56001	Email
daniel.pirkel@state.mn.us	bryan.lillie@state.mn.us	

ORGANIZATION	CONTACT NAME	PHONE	PERMIT NO.
Resident Engineer	Dan Pirkel	507-304-6200	n/a
SWPPP Designer	Meghan Litsey, WSB & Associates, Inc.	763.287.7155	n/a
Construction Site Manager	Adam Schendel	507-.304.620	n/a
MnDOT Office of Environmental Stewardship	Brett Troyer	651.366.3629	n/a
MN Department of Natural Resources	Peter Leete	651.366.3634	GP 2004-0001
Minnesota Pollution Control Agency	Brian Green	507.206.2610	MNR100001
Army Corps of Engineers	Eric Hanson	651-290-5386	RGP-004-MN
Watershed District	N/A	N/A	N/A
County Ag Inspector	Mike Samuelson	507.304.4025	N/A

MPCA 24 HOUR EMERGENCY NOTIFICATION: 651-649-5451 TOLL FREE: 800-422-0798

EROSION CONTROL SUPERVISOR

In accordance with spec. 2573.3 A1 the contractor shall provide an Erosion Control Supervisor with a valid certification to direct the contractor and subcontractors operations and ensure compliance with federal, state, and local ordinances and regulations. The Erosion Control Supervisor will work with the project engineer to oversee the implementation of the SWPPP and the installation, inspection, and maintenance and repair of the erosion prevention and sediment control BMPs before, during and after construction until the NOT has been filed with the MPCA.

The Erosion Control Supervisor is responsible for complying with all the inspection and maintenance requirements stated in the NPDES permit. Inspections of the entire construction site will occur a minimum of once every seven days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours. The Erosion Control Supervisor will oversee inspection of all erosion prevention and sediment control BMPs to ensure integrity and effectiveness of each BMP. All inspections and maintenance conducted during construction must be recorded in writing (within 24 hrs.) and these records must become part of the SWPPP. Inspection reports must be submitted to the project engineer in a format that meets or exceeds the project engineer's expectations. Records of each inspection and maintenance activity shall include:

- A. Date and time of inspections;
- B. Name of persons conducting inspections;
- C. Findings of inspections, including specific locations where corrective actions are needed;
- D. Corrective actions taken, including dates, times, and party completing maintenance activities;

- E. Date and amount of all rainfall events greater than 0.5 inch in 24 hours;
- F. Photograph and description of discharge (i.e. color, odor, floating, settled or suspended solids, foam, oil sheen, etc.); and
- G. Documents and changes made to the SWPPP.

Rainfall amounts must be obtained by a properly maintained rain gage on site, a weather station within 1 mile of site, or a weather reporting system that provides site specific rainfall data from radar summaries.

ADDITIONAL SWPPP REQUIREMENTS

- Timing for installation is described in General SWPPP notes and are specified relative to contractor schedule.
- BMP Design Factors are incorporated in the design of BMP Standard Detail Sheets.
- Soil Management:
 - Soil types typically found on this project are loam, clay loam, and silt loam.
 - Preservation Projects: all work is done within road core so there will be no disturbance or compaction outside of road core.
 - Grading Projects: subsoiling and seeding practices will be done to mitigate for compaction and disturbance beyond road core.
- All MPCA Construction Activity Requirements are incorporated into this SWPPP and associated plan documents.

LOCATION OF SWPPP REQUIREMENTS

The required SWPPP elements are located in several places within the plan set as well as in the special provisions and MnDOT spec book (2018 edition). Soil maps are on file at the MnDOT Mankato office. The notes and table below are a quick reference for the contractor and project engineer to use in the field. There may be additional required SWPPP elements included on the project that are not listed on this sheet.

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

LOCATION OF SWPPP COMPONENTS	
DESCRIPTION	LOCATION
SWPPP NARRATIVE	SHEETS 413 - 414
SITE CONDITIONS	SHEETS 93 - 130
SITE MAP	SHEETS 93 - 130
CONSTRUCTION PHASING/STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED	SHEET 475 - 503A
DIRECTION OF FLOW (PRE-/POST-CONSTRUCTION)	SHEET 249 - 286
IMPERVIOUS SURFACES	SHEET 169 - 206
TEMPORARY ESC BMPS/STEEP SLOPES (3:1)	SHEETS 375 - 412
PERMANENT EROSION CONTROL BMPS	SHEETS 375 - 412
STORM SEWER	SHEETS 249 - 286
GRADING	SHEETS 331 - 365
ESTIMATED BMP QUANTITIES	SHEET 294
BMP DETAILS/SPECIFICATIONS	SHEET 287 - 288

SWPPP TRAINING

This SWPPP was prepared by certified personnel, or under the supervision of someone certified, in the design of construction SWPPPs. Copies of certifications are on file with MnDOT and are available upon request. The contractor is responsible for providing and erosion control supervisor with valid certification that is responsible for overseeing the implementation of the SWPPP. The contractor must provide proof of certification at the preconstruction meeting and will not be allowed to commence work until proof of certification has been provided to the project engineer.

PROJECT WATERBODIES

The following waterbodies are located within one mile of the project limits and receive runoff from the project site. If any of the waterbodies are special or impaired waters, the BMPs described in Appendix A of the NPDES permit will apply to all areas of the site. Approved TMDL implementation plans are also listed.

NAME	TYPE	SPECIAL?	IMPAIRED?	APPROVED TMDL?
Le Sueur River	River	No	Yes	No
Unnamed Creek (Little Beauford Ditch)	Creek	No	Yes	No
Cobb River	River	No	No - Not within 1 mile	No
Unnamed Creek	Creek	No	No	No
County Ditch 57	Creek/Ditch	No	No	No

No work shall occur within the banks of DNR designated Public Waters between March 1 and June 15. Stabilization of soils within 200 feet of the water's edge must be completed within 24 hours during this period.

STORMWATER CONTROLS AND PRECIPITATION

The contractor must plan and implement BMPs to protect receiving waters. The average annual rainfall amount for the project area is 32.3 inches. Average 2-year and 10-year rainfall intensities are 1.4 in and 2.2 in respectively.

LAND FEATURE CHANGES

Total disturbed area: 154.52 acres
 Total existing impervious surface area: 60.35 acres
 Total proposed impervious surface area: 63.012 acres
 Total proposed net change in impervious surface area: 2.66 acres
 Required WQV: (1")/(1/12')(2.66 acres)(43560 sf/ac) = 9,656 CF. WQV Provided: 17,663 CF. Additional calculations are available at the MnDOT D7 Hydraulics Office

A second basin will be constructed as part of this project near the intersection of CSAH 16 and TH 22. Although this pond will be constructed concurrently with the TH22 improvements, this basin will ultimately provide water quality treatment for S.P. 0704-108 to be constructed in fiscal year 2018, since this project will sufficiently meet the permanent stormwater requirements on site. MnDOT District 7 maintenance staff will be responsible for the long term maintenance and operation of this proposed basin.

DATE: 4/6/2018 TIME: 12:27:44 PM FILENAME: K:\03265-010\Cad\Plan\cd704100_swppp.dgn

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

1. Construction shall be governed by the 2013 NPDES Construction Stormwater Permit, MnDOT Spec Book (2018 Edition), project plans, and special provisions. Reference special provision 1717 for additional MPCA NPDES requirements. The contractor will develop a chain of command with all operators on the site to ensure that the SWPPP will be implemented and stay in effect until the construction project is complete, the entire site has undergone final stabilization, and the NOT has been submitted.
2. The contractor will prepare a written, weekly schedule of proposed erosion control activities for the project engineer's approval as per MnDOT Spec 1717.2C.
3. The SWPPP shall be amended to include additional or modified BMPs, designed to correct identified problems or situations prior to conducting specific stages/phases of the project, as required by the owner and defined in this project SWPPP. SWPPP amendments must be in accordance with Part III.B of the NPDES permit.
4. The contractor will prepare and submit a site plan for the Engineer's approval as per MnDOT Spec 1717.2D for concrete management, work in environmentally sensitive areas, areas identified in the plans as "site plan requirement area", any work that will require dewatering, the staging of inlet protection devices over the life of the contract, and as requested by the engineer. All site plans must be submitted to the engineer in writing. The contractor shall allow a minimum of 7 days for MnDOT to review and approve site plan submittals. The contractor will not be allowed to commence work for which a site plan is required until approval has been granted by the engineer. The contractor will not be given any extra time in the contract due to the untimely submittal of a site plan.
5. The contractor will comply with the requirements regarding pollution prevention management during construction, which will include, but not be limited to:
 - a. Concrete (including stucco, paint, form release oils, curing compounds, and other construction materials) washout areas for use by all subcontractors and MnDOT personnel must be identified by signage. These areas must be at least 200' from the site plan requirement areas or environmentally sensitive areas, and utilize a leak-proof containment facility or impermeable liner that prevents runoff onto adjacent soils. An engineered collection system can also be used if it is approved by the project engineer. Liquid and solid waste must be disposed of properly and in compliance with all MPCA regulations.
 - b. Solid waste including, but not limited to, collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris, and other wastes, must be disposed of properly and in compliance with MPCA disposal requirements.
 - c. Hazardous waste, such as oil, gasoline, paint, and other hazardous substances, must be properly stored, including secondary containment, to prevent spills, leaks, or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
 - d. External washing of trucks and other construction vehicles must be limited to a defined area of the site and runoff must be contained and properly disposed of. Engine degreasing is not allowed on site.
 - e. Chemical spill kits must be available on site at all times.
 - f. Portable restroom facilities must be anchored to prevent tipping.
6. Chemicals must be kept in a secure storage area when not in use. Chemical storage containers must have secondary containment when being used or stored on the project site. Chemical spills of any kind (oil, fuel, fertilizer, etc.) must be cleaned up and removed from the site immediately.
7. The contractor is responsible for creating and following a written disposal plan for all waste materials, and submitting the plan to the engineer. The plan will include how the material will be disposed of and the location of the disposal site.
8. Burning of any material is not allowed within the project boundary.
9. The erosion prevention and sediment control BMPs shall be placed as necessary to minimize erosion from disturbed surfaces and to capture sediment on site. All erosion control measures shall be in place prior to starting any removal work and/or ground disturbing activities and shall be maintained until temporarily or permanently stabilized.
10. Sediment control devices must be established on all down gradient perimeters before any up gradient land disturbing activities begin.
11. Storm sewer inlets will be protected at all times with appropriate inlet protection for each specific phase of construction. Inlet protection devices may need to be placed multiple times in the same location over the life of the contract. Inlet protection devices will be paid for once per inlet, regardless of the number of times the BMP is placed. All storm sewer inlet protection devices will be kept in good functional condition at all times. If the project engineer deems an inlet protection device to be nonfunctional, in poor condition, ineffective, or not appropriate for the current construction activities, it will be replaced with a suitable alternative at no cost to MnDOT.
12. The contractor will place construction exits, as necessary, to prevent tracking of sediment onto paved surfaces and in compliance with part IV of the NPDES permit. Construction exits will be sufficiently sized and maintained to prevent track out. Type 5 mulch (slash mulch) or an approved engineered product will be allowed for construction exits in lieu of crushed rock.
13. All stormwater, including dewatering, must be discharged in a manner that does not cause nuisance conditions or erosion in receiving channels, downslope properties or inundation in wetlands causing an adverse impact to the wetland as determined by the engineer.
14. Backfill placed in streams shall consist of rock or granular material free of fines, silts, and mud. Machinery shall be cleaned of all such material and free of grease, oil, etc. before entering the stream.
15. Slopes steeper than 1:3 (V:H) and greater than 75' in length shall be temporarily or permanently stabilized in increments not to exceed 75' in length prior to constructing or disturbing a new increment. If temporary or permanent stabilization is not feasible at a particular site, a sediment basin or other approved sediment control measure will be allowed as approved by the engineer.
16. Land disturbance and removal of riparian (streamside) vegetation shall be minimized.
17. All exposed soils must be temporarily or permanently stabilized no more than 14 days (7 days if within 1 mile of and draining to a special or impaired water) after construction activity on that portion of the site has temporarily or permanently ceased. Stabilization must be initiated immediately. This will require stabilization to occur more than once during rough grading. Rapid stabilization methods 1, 2, 3, or 4, will be used to provide temporary cover, as appropriate, in these areas.
18. All temporary or permanent drainage ditches or swales that drain water from the construction site or divert water around the construction site must be stabilized to top of bank within 200 lineal feet from the property edge or point of discharge to any surface water. Stabilization must occur within 24 hours of connection to surface water, existing gutter, storm sewer inlet, drainage ditch, or other stormwater conveyance system according to

- MnDOT Spec 1717.2A. Rapid stabilization Method 4 will be used to stabilize these areas. The remainder of the ditch must be stabilized within 14 days (7 days if within 1 mile of and draining to a special or impaired water) of connecting to the surface water. Permanent erosion control blanket or rapid stabilization Method 4 will be used to stabilize these areas. Disc anchored mulch and hydraulic soil stabilizers are not allowed to be used for permanent ditch stabilization.
19. Outlets shall be permanently or temporarily stabilized with energy dissipation within 24 hours of being constructed.
 20. All exposed soil areas will be stabilized prior to the onset of winter. Any work still being performed will be snow mulched, seeded, or blanketed within the time frames indicated in the NPDES permit.
 21. The contractor shall comply with the following inspection and maintenance requirements:
 - a. Perimeter control devices must be repaired, replaced, or supplemented when it becomes non-functional or sediment reaches ½ the height of the device. Repairs must be made within 24 hours of discovery.
 - b. Inlet protection devices should be repaired when they become non-functional or sediment reaches 1/3 the height and/or depth of the device.
 - c. Temporary and permanent sediment basins must be drained and have the sediment removed once the sediment has reached ½ the storage volume within 72 hours of discovery.
 - d. Tracked sediment must be removed within 24 hours of discovery onto paved surfaces.
 - e. All other non-functional BMPs must be repaired, replaced, or supplemented within 24 hours of discovery.
 - f. Contractor is responsible for maintaining all BMPs until all soil disturbing work has been completed, site has gone under final stabilization, and the NOT has been submitted.
 22. If sediment deposits in a surface water (including drainage ditches and conveyance systems), the material must be removed within 7 days.
 23. All infiltration (filtration) areas must be inspected for sediment from ongoing construction activity. In addition, heavy equipment shall not be driven across or operated on top of infiltration (filtration) areas.
 24. Pavement surfaces shall be swept within 24 hours of discovery of sediment or tracking onto pavement that drains to curbs, inlets, ditches, or ponds. Pavement shall be lightly wetted prior to sweeping.
 25. Temporary dewatering activities may be required for roadway construction and utility work. Therefore it is possible that a permit for the temporary appropriation of waters of the state, non-irrigation from MnDNR will be required for this project. The contractor will be responsible for obtaining this permit. All temporary dewatering shall be discharged to an approved location for treatment prior to discharge to the receiving water. The contractor is required to submit site plans to MnDOT engineer for approval prior to commencing work according to MnDOT Spec 1717.2D.
 26. Final stabilization requires that:
 - a. All soil disturbing activities at the site have been completed.
 - b. All soils have been stabilized by a uniform perennial cover with a density of 70% or other equivalent means to prevent soil failure under erosive conditions.
 - c. All accumulated sediment has been removed from permanent water quality basins.
 - d. The permanent stormwater management system has been constructed and is operating as designed.
 - e. All temporary synthetic and structural erosion prevention and sediment control BMPs have been removed.
 27. The size and elevation of storm sewer pipes, inlets and overflow devices have been specifically designed to conform to MnDOT design standards, MPCA and watershed district permit requirements. The design computations are on file with MnDOT District 7 Hydraulics. Changing flow directions, quantities, or patterns is not permitted. Any changes to the size, elevation or direction of flow of the drainage system must be approved by the hydraulics engineer.
 28. The NOT form can be found on the MPCA Stormwater Program for Construction Activity webpage. Submit the completed NOT form to the MnDOT District 7 Construction Office for final submittal to MPCA.
 29. Temporary soil stockpiles must have silt fence or other effective perimeter control. Soil stockpiles must be covered with mulch, plastic, or other BMPs if left in place for more than 7 days (incidental).

Note: Information in this sheet is available in the permit and is not intended to be all inclusive. Modifications from the permit will be underlined for quick identification

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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: 4/6/2018 LIC. NO. 40646	 MINNESOTA DEPARTMENT OF TRANSPORTATION TH 22 LANDSCAPING FROM THE CITY OF MAPLETON TO MANKATO		SWPPP	STATE PROJ. NO. 0704-110 (T.H. 22) Sheet No. 131 of 131 Sheets
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