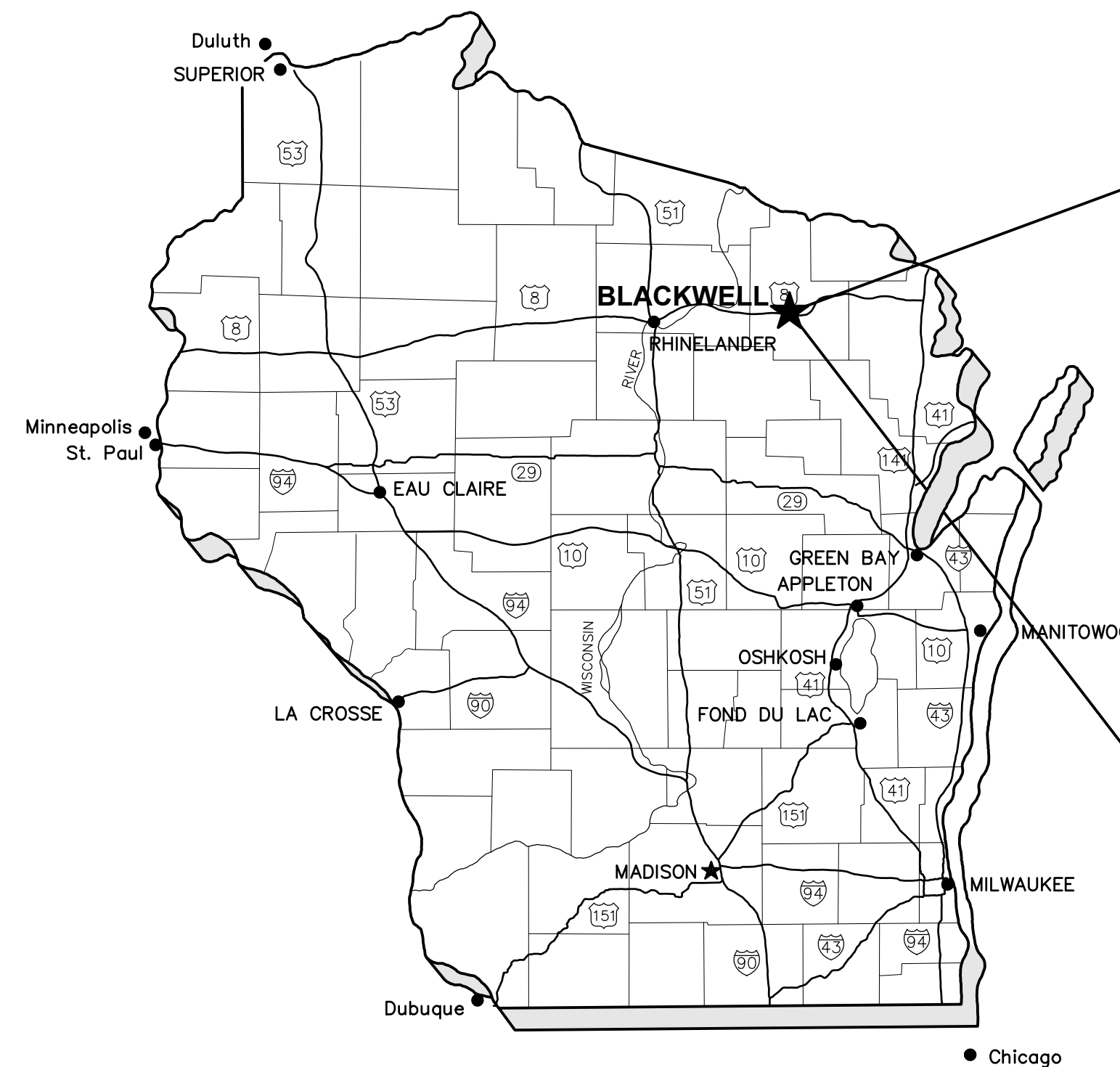


BLACKWELL - CTH H WATERMAIN FOREST COUNTY POTAWATOMI COMMUNITY

FOREST COUNTY, WISCONSIN
MCM # F0954 09-22-00421

SHEET INDEX

- 1 ABBREVIATIONS, SYMBOLS & NOTES
- 2 SURVEY CONTROL & HORIZONTAL ALIGNMENT DETAIL
- 3 OVERVIEW
- 4-21 CTH H PLAN & PROFILE
- 22-24 MISCELLANEOUS DETAILS



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CONTACT INFORMATION

UTILITIES

FOREST COUNTY POTAWATOMI COMMUNITY
WATER AND SEWER
JENNY SPENCER
8355 MISH KO SWEN DRIVE
PO BOX 340
CRANDON, WI 54520
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DESIGN CONTACT

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FOREST COUNTY POTAWATOMI COMMUNITY
INFORMATION TECHNOLOGY
JOE MAYER
5416 EVERYBODY'S ROAD
PO BOX 340
CRANDON, WI 54520
(715)-889-2943

DIGGERSHOTLINE

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

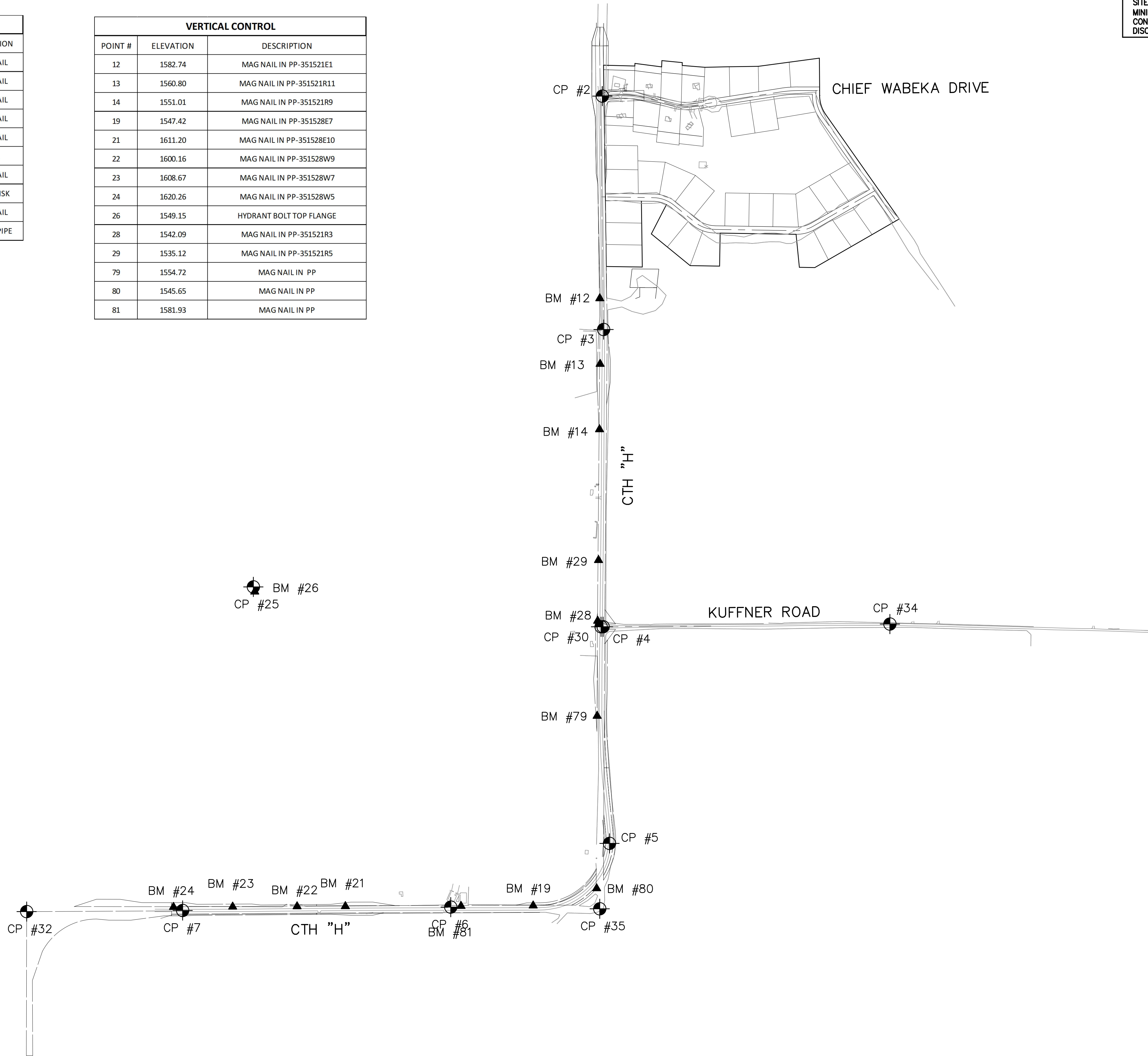


DATE
AUGUST, 2022
PROJECT NO.
F0954 09-22-00421

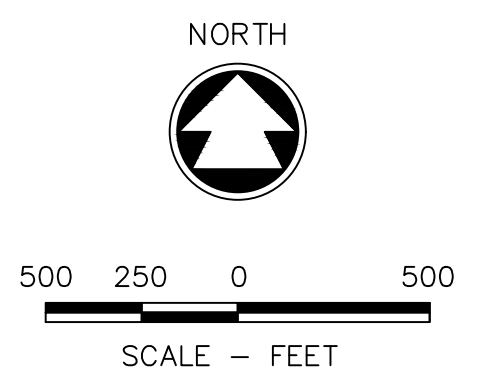
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HORIZONTAL CONTROL			
POINT #	NORTHING	EASTING	DESCRIPTION
2	547044.35	910195.24	MAG NAIL
3	544920.80	910206.55	MAG NAIL
5	540246.03	910260.22	MAG NAIL
6	539666.54	908816.40	MAG NAIL
7	539636.00	906378.08	MAG NAIL
25	542579.61	907021.42	NAIL
30	542216.66	910183.49	MAG NAIL
32	539625.78	904959.82	MON3 DISK
34	542241.52	912810.35	MAG NAIL
35	539651.23	910171.41	1" IRON PIPE

VERTICAL CONTROL		
POINT #	ELEVATION	DESCRIPTION
12	1582.74	MAG NAIL IN PP-351521E1
13	1560.80	MAG NAIL IN PP-351521R11
14	1551.01	MAG NAIL IN PP-351521R9
19	1547.42	MAG NAIL IN PP-351528E7
21	1611.20	MAG NAIL IN PP-351528E10
22	1600.16	MAG NAIL IN PP-351528W9
23	1608.67	MAG NAIL IN PP-351528W7
24	1620.26	MAG NAIL IN PP-351528W5
26	1549.15	HYDRANT BOLT TOP FLANGE
28	1542.09	MAG NAIL IN PP-351521R3
29	1535.12	MAG NAIL IN PP-351521R5
79	1554.72	MAG NAIL IN PP
80	1545.65	MAG NAIL IN PP
81	1581.93	MAG NAIL IN PP



NOTE:
PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY VERTICAL DISCREPANCY.



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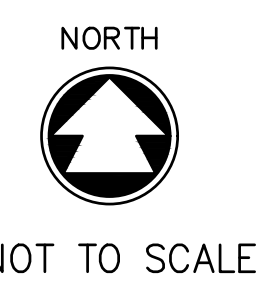
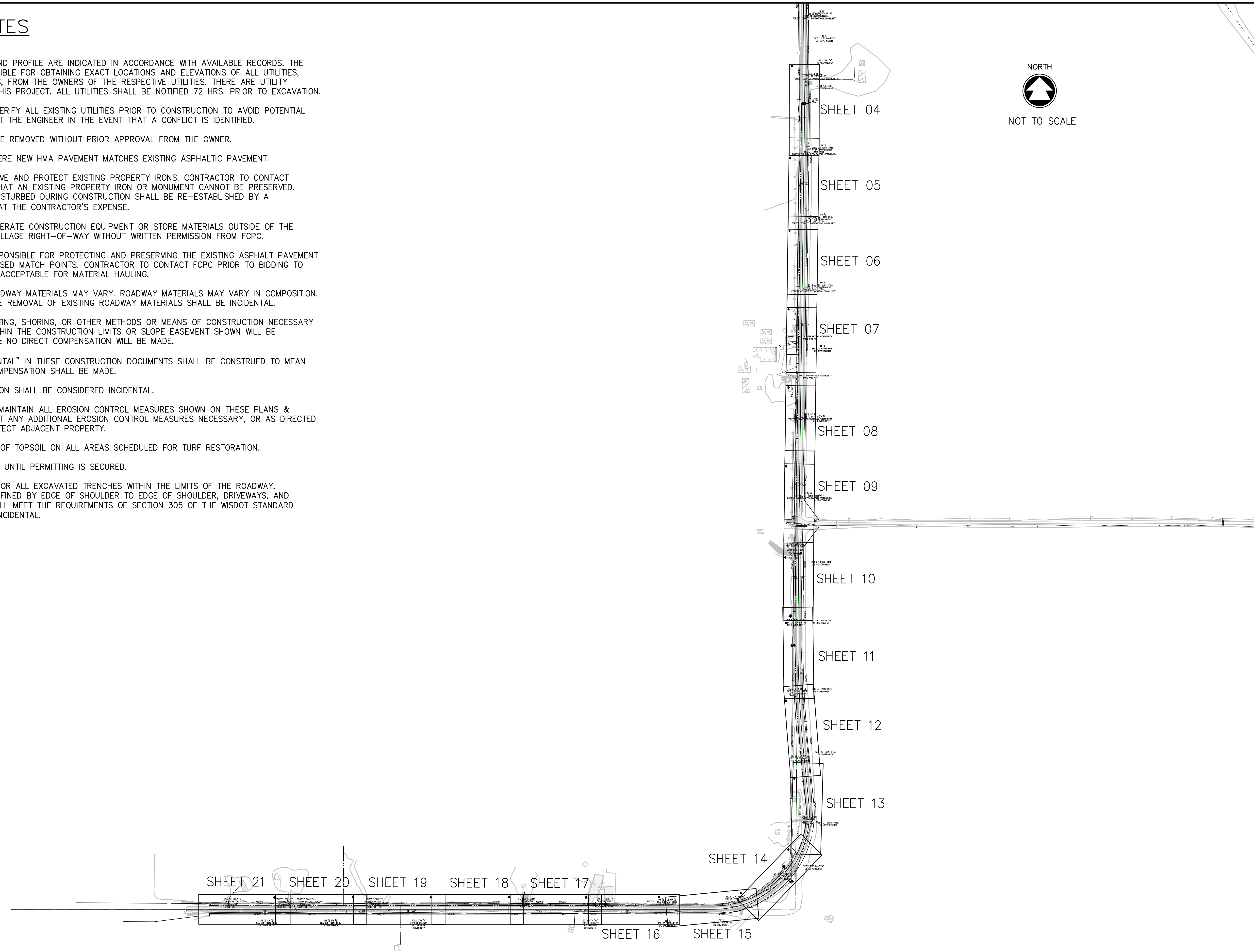
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FCPC BLACKWELL, FOREST COUNTY, WI
SURVEY CONTROL & HORIZONTAL ALIGNMENT**

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DATE AUGUST, 2022	
SHEET NO. 02	

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GENERAL NOTES

1. THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING ANY PRIVATE UTILITIES, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THERE ARE UTILITY ADJUSTMENTS NECESSARY FOR THIS PROJECT. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION TO AVOID POTENTIAL CONFLICTS. IMMEDIATELY CONTACT THE ENGINEER IN THE EVENT THAT A CONFLICT IS IDENTIFIED.
3. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT PRIOR APPROVAL FROM THE OWNER.
4. A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MATCHES EXISTING ASPHALTIC PAVEMENT.
5. THE CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PROPERTY IRONS. CONTRACTOR TO CONTACT ENGINEER IF IT IS DETERMINED THAT AN EXISTING PROPERTY IRON OR MONUMENT CANNOT BE PRESERVED. PROPERTY IRONS REMOVED OR DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL NOT OPERATE CONSTRUCTION EQUIPMENT OR STORE MATERIALS OUTSIDE OF THE CONSTRUCTION EASEMENTS OR VILLAGE RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION FROM FCPC.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND PRESERVING THE EXISTING ASPHALT PAVEMENT ON STREETS BEYOND THE PROPOSED MATCH POINTS. CONTRACTOR TO CONTACT FCPC PRIOR TO BIDDING TO OBTAIN INFORMATION ON ROADS ACCEPTABLE FOR MATERIAL HAULING.
8. THE THICKNESS OF EXISTING ROADWAY MATERIALS MAY VARY. ROADWAY MATERIALS MAY VARY IN COMPOSITION. ALL COSTS ASSOCIATED WITH THE REMOVAL OF EXISTING ROADWAY MATERIALS SHALL BE INCIDENTAL.
9. ANY USE OF TRENCH BOX, SHEETING, SHORING, OR OTHER METHODS OR MEANS OF CONSTRUCTION NECESSARY TO COMPLETE CONSTRUCTION WITHIN THE CONSTRUCTION LIMITS OR SLOPE EASEMENT SHOWN WILL BE CONSIDERED TO BE INCIDENTAL & NO DIRECT COMPENSATION WILL BE MADE.
10. ALL USES OF THE WORD "INCIDENTAL" IN THESE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO MEAN WORK FOR WHICH NO DIRECT COMPENSATION SHALL BE MADE.
11. DEWATERING DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL.
12. CONTRACTOR SHALL PROVIDE & MAINTAIN ALL EROSION CONTROL MEASURES SHOWN ON THESE PLANS & SPECIFICATION, & WILL IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY, OR AS DIRECTED BY ENGINEER, IN ORDER TO PROTECT ADJACENT PROPERTY.
13. PLACE A MINIMUM OF 4-INCHES OF TOPSOIL ON ALL AREAS SCHEDULED FOR TURF RESTORATION.
14. CONSTRUCTION SHALL NOT BEGIN UNTIL PERMITTING IS SECURED.
15. SPECIAL BACKFILL IS REQUIRED FOR ALL EXCAVATED TRENCHES WITHIN THE LIMITS OF THE ROADWAY. LIMITS OF THE ROADWAY ARE DEFINED BY EDGE OF SHOULDER TO EDGE OF SHOULDER, DRIVEWAYS, AND ASPHALT. SPECIAL BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 305 OF THE WISDOT STANDARD SPECIFICATIONS AND SHALL BE INCIDENTAL.



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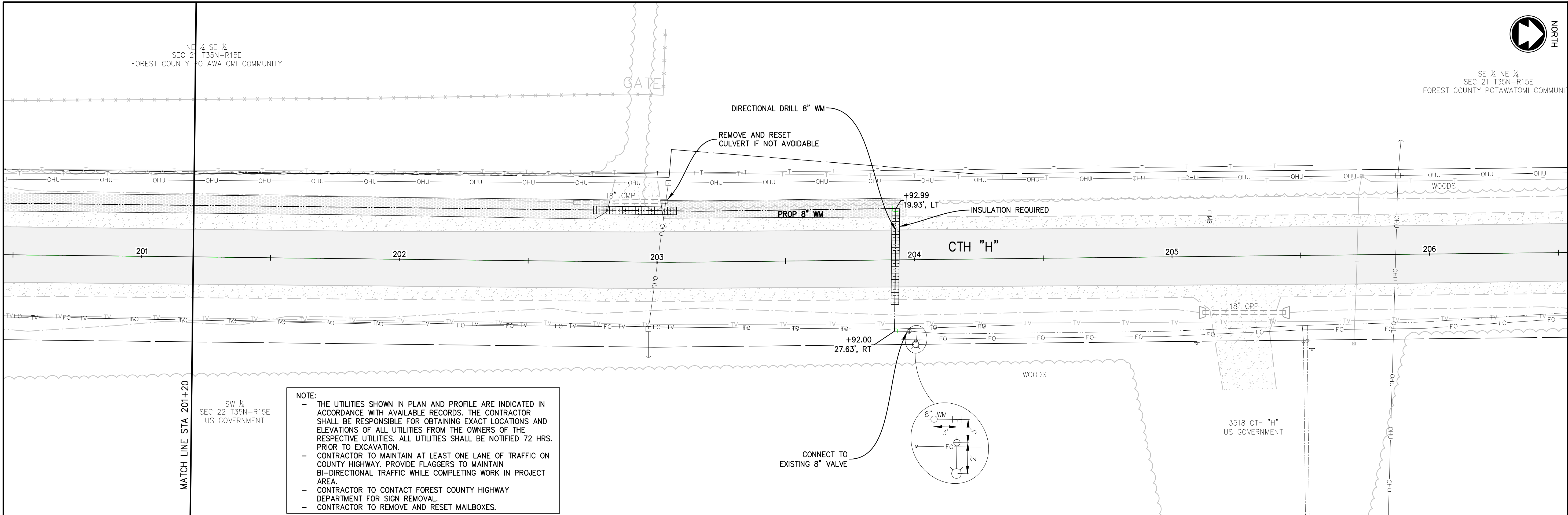
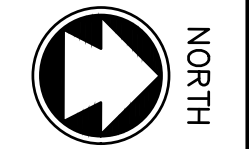
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FCPC BLACKWELL, FOREST COUNTY, WI
03 - OVERVIEW - GENERAL NOTES

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DATE AUGUST, 2022	
SHEET NO. 03	

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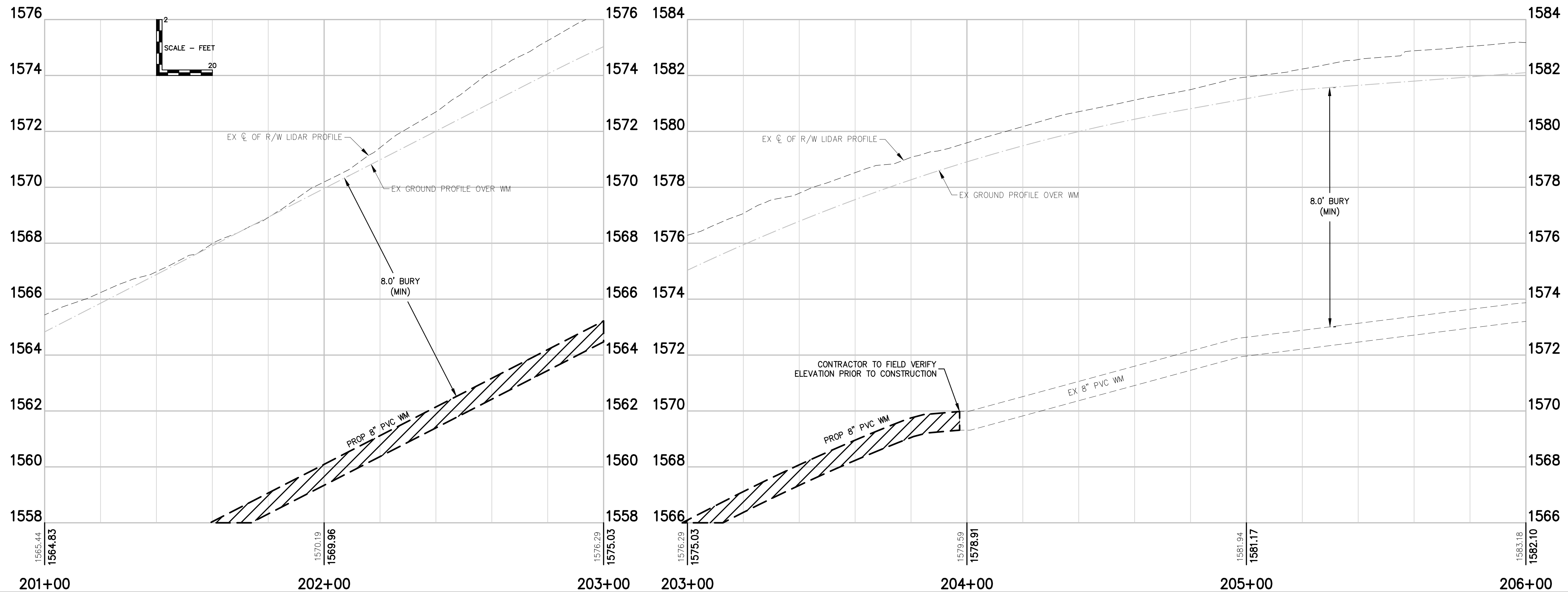
NE 1/4 SE 1/4
SEC 21 T35N-R15E
FOREST COUNTY POTAWATOMI COMMUNITY

SE 1/4 NE 1/4
SEC 21 T35N-R15E
FOREST COUNTY POTAWATOMI COMMUNITY



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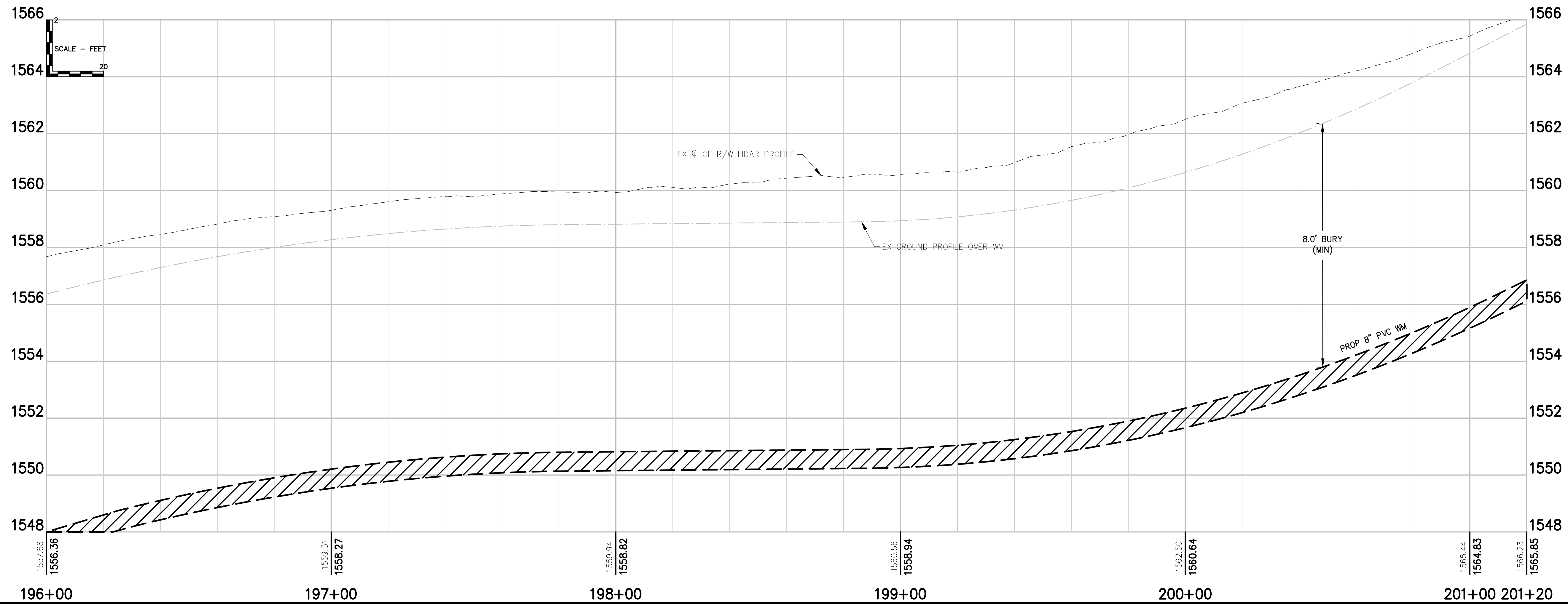
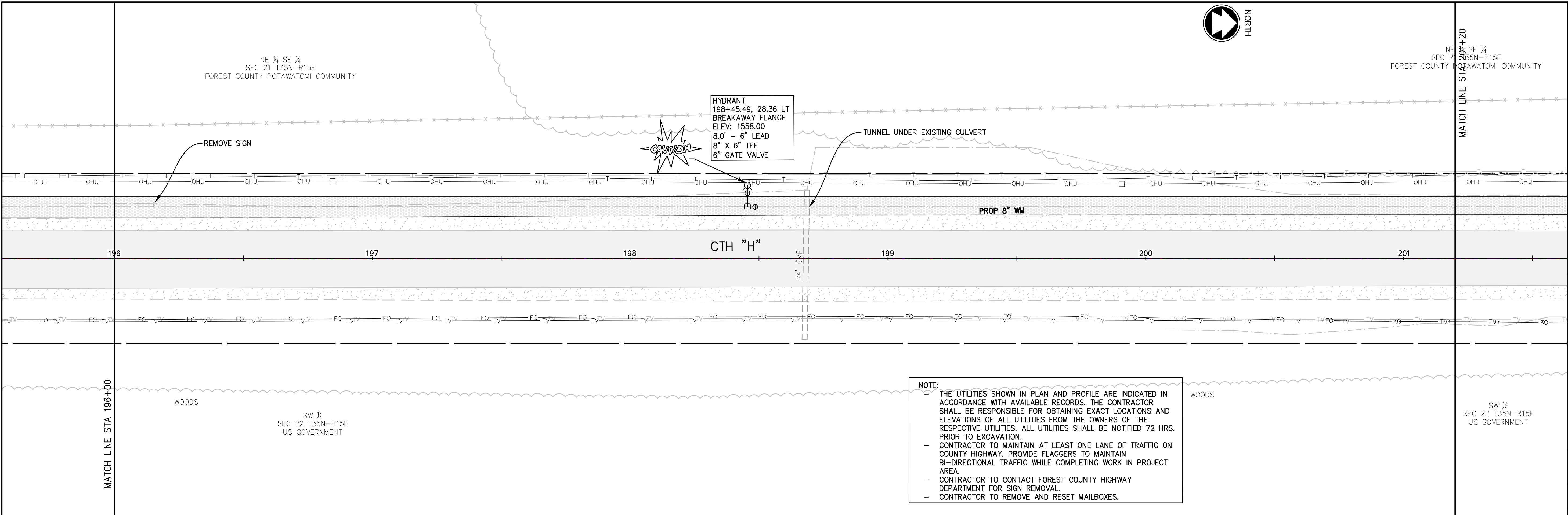
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DATE AUGUST, 2022	
SHEET NO. 04	

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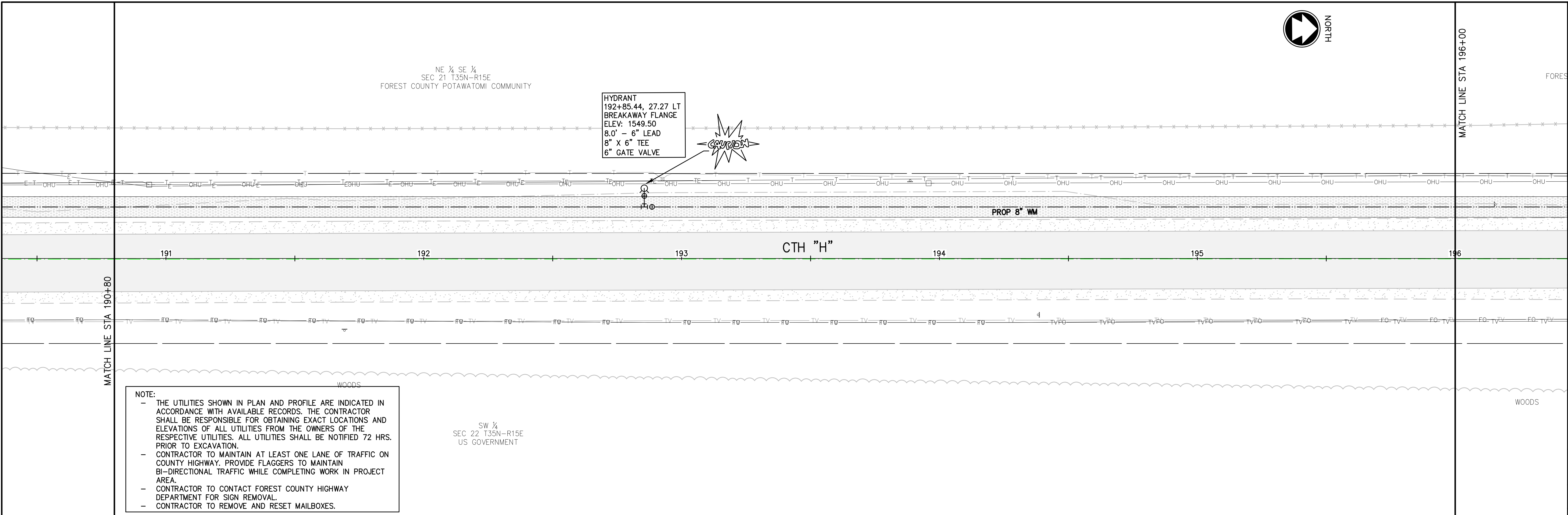
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PROJECT NO. F0954_09-22-00421	
DATE AUGUST, 2022	
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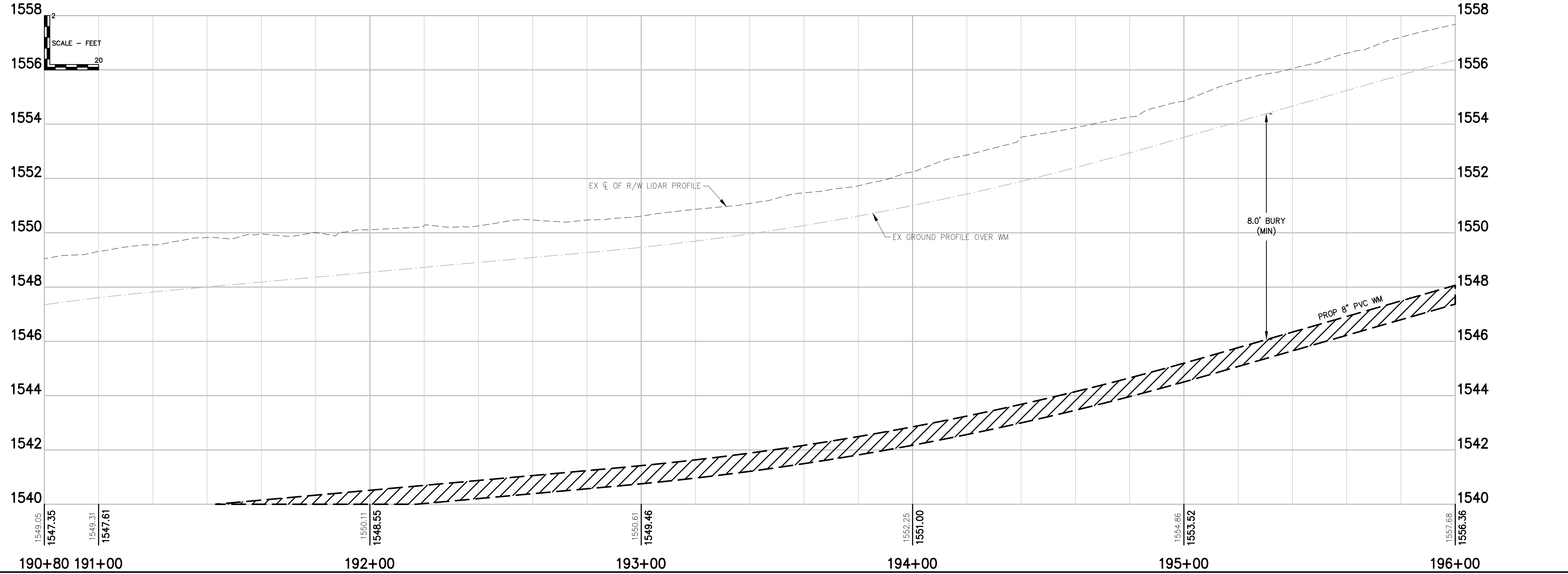
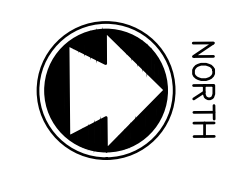
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HYDRANT
 192+85.44, 27.27 LT
 BREAKAWAY FLANGE
 ELEV: 1549.50
 8.0' - 6" LEAD
 8" X 6" TEE
 6" GATE VALVE



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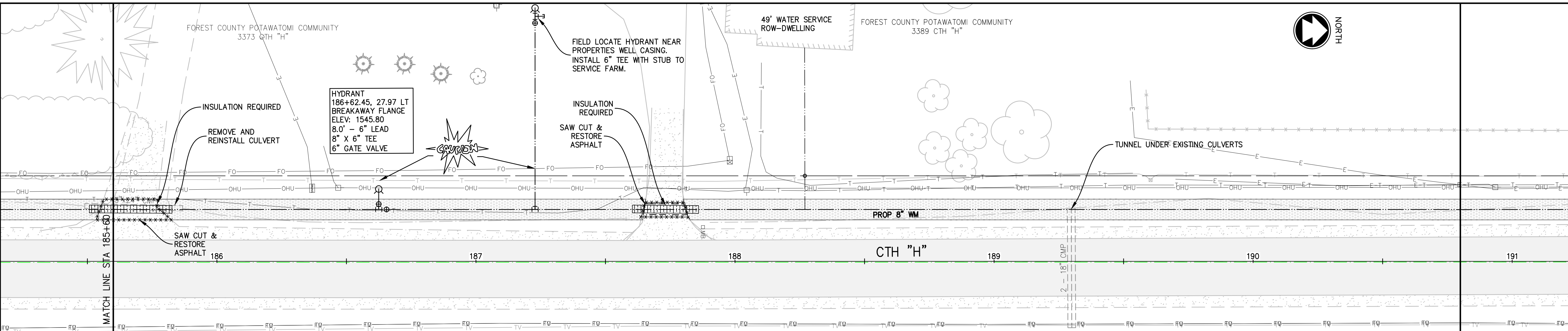
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PROJECT NO.
F0954_09-22-00421

DATE
AUGUST, 2022

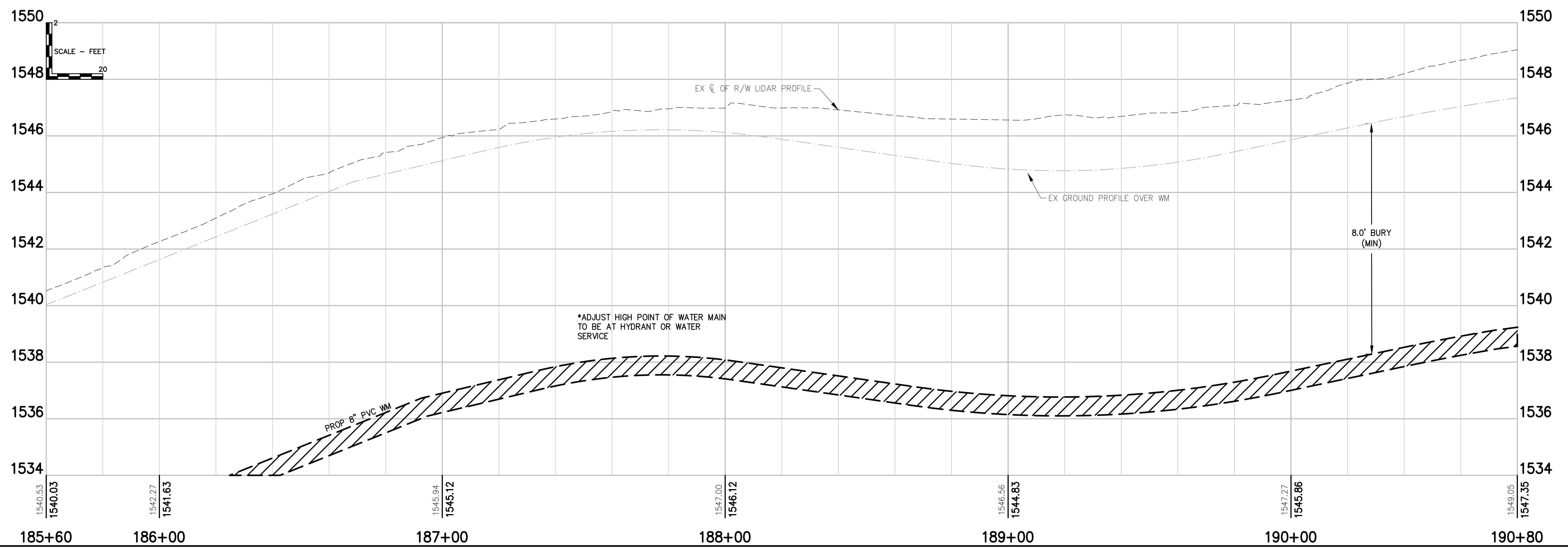
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 blackwell, x--genral_wrcg-2020)



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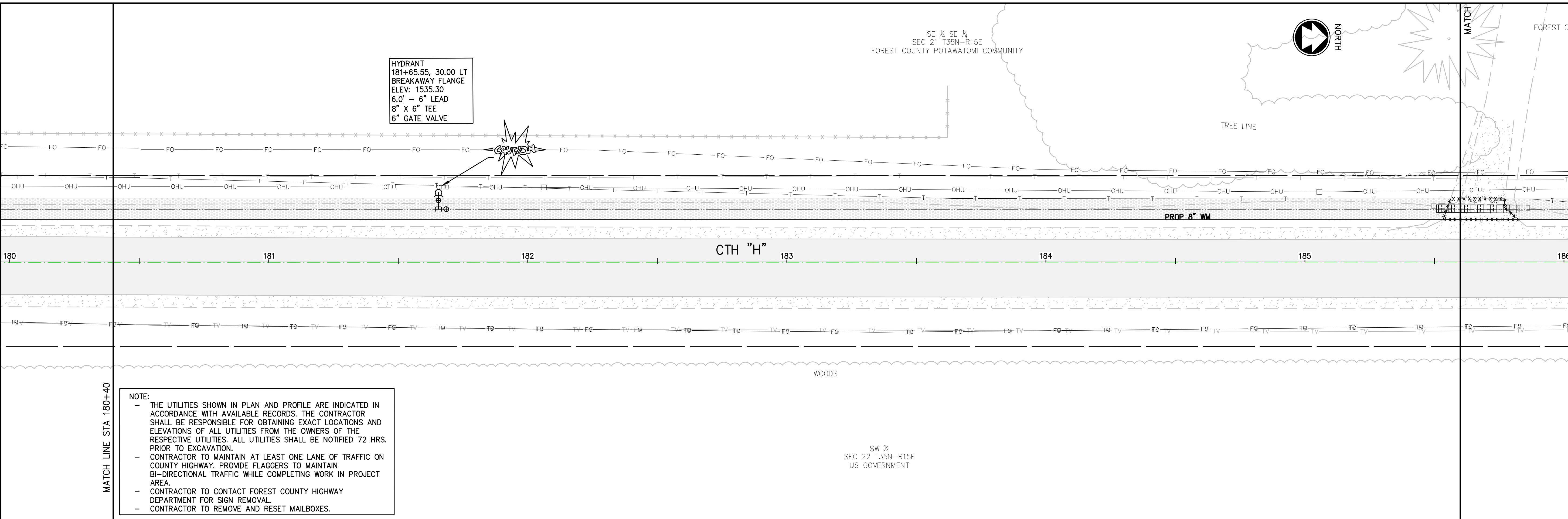
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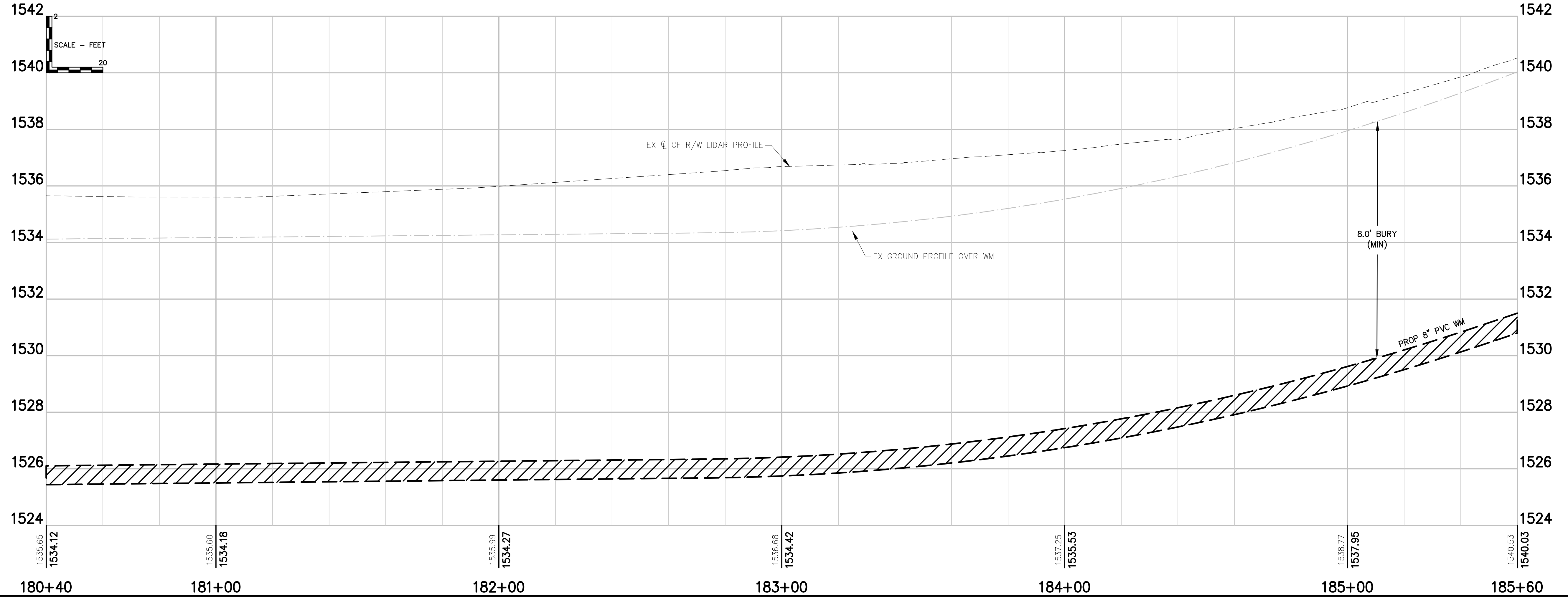
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HYDRANT
 181+65.55, 30.00 LT
 BREAKAWAY FLANGE
 ELEV: 1535.30
 6.0' - 6" LEAD
 8" X 6" TEE
 6" GATE VALVE

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KJB

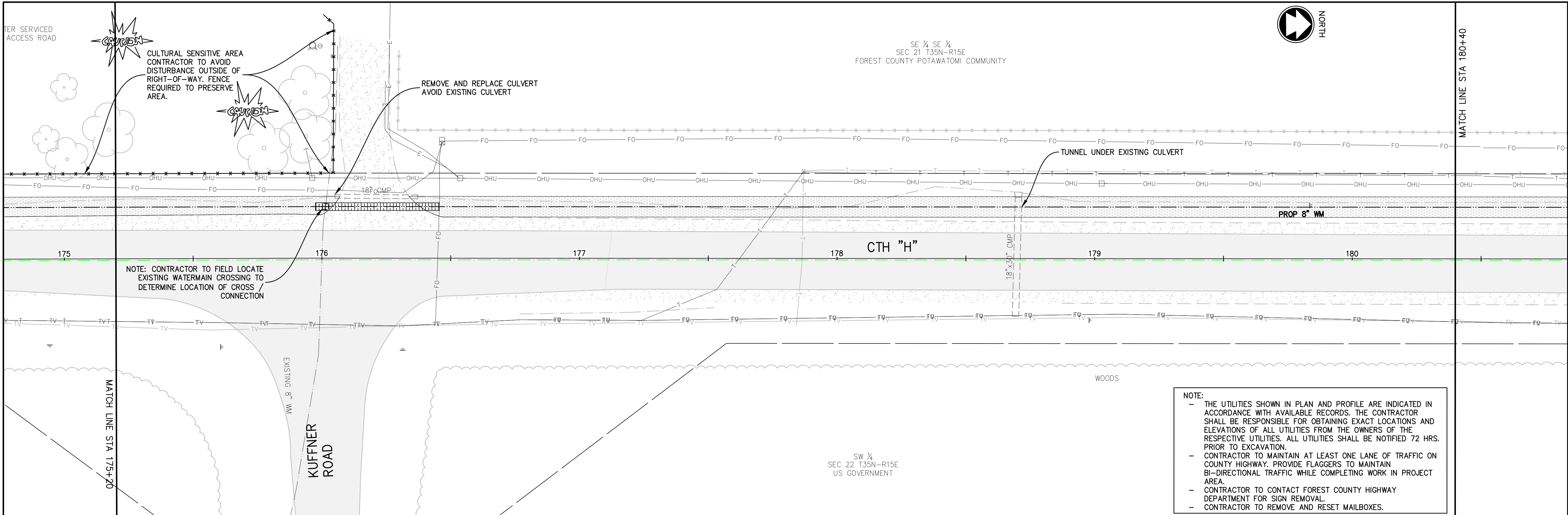
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F0954_09-22-00421

DATE
AUGUST, 2022

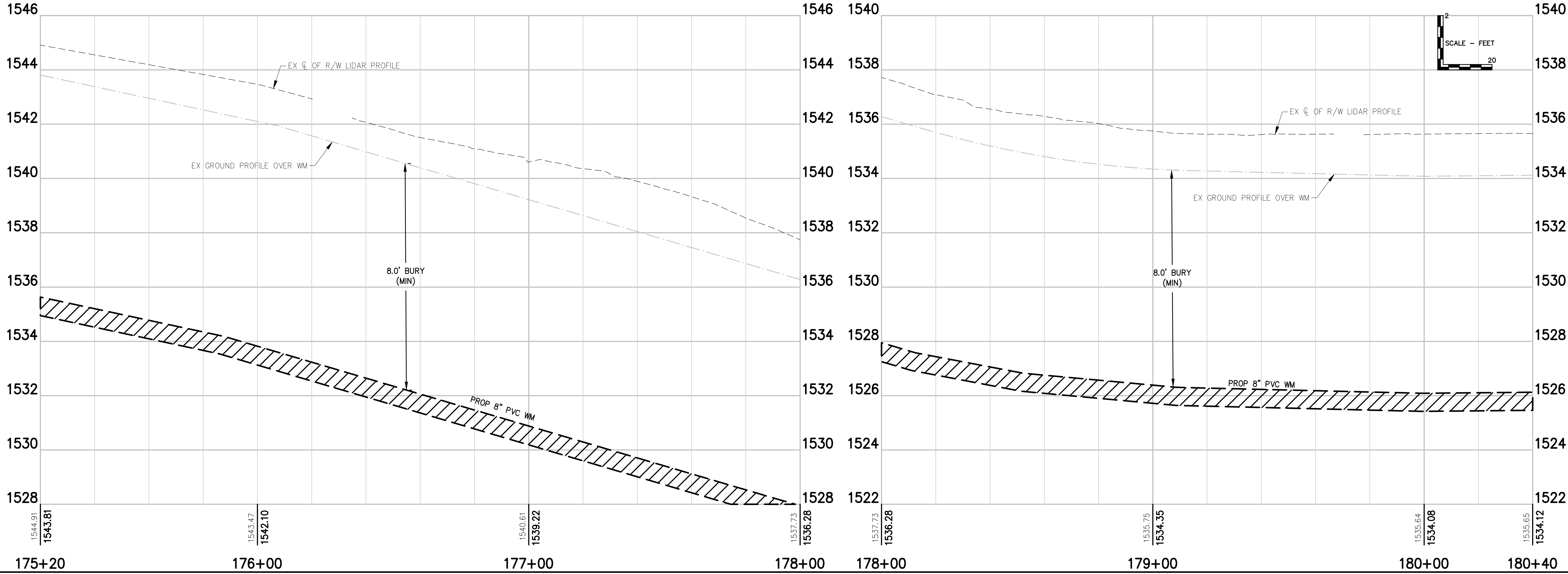
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NO.

DATE

REVISION

DESIGNED

KJB

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PROJECT NO.

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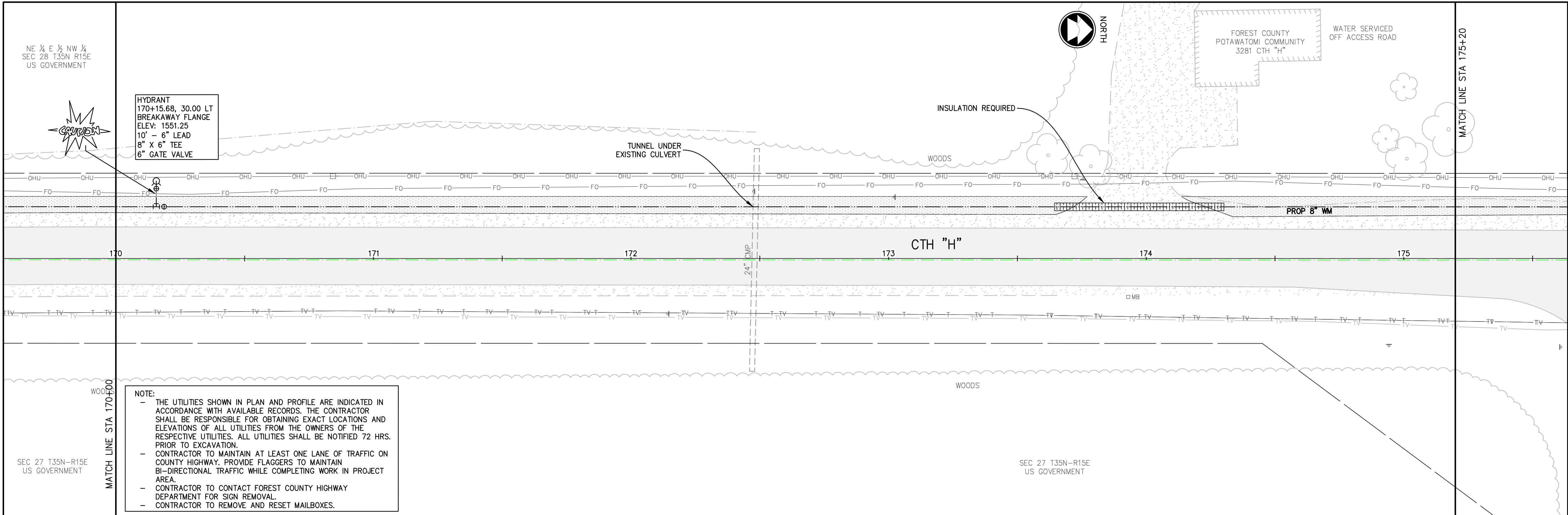
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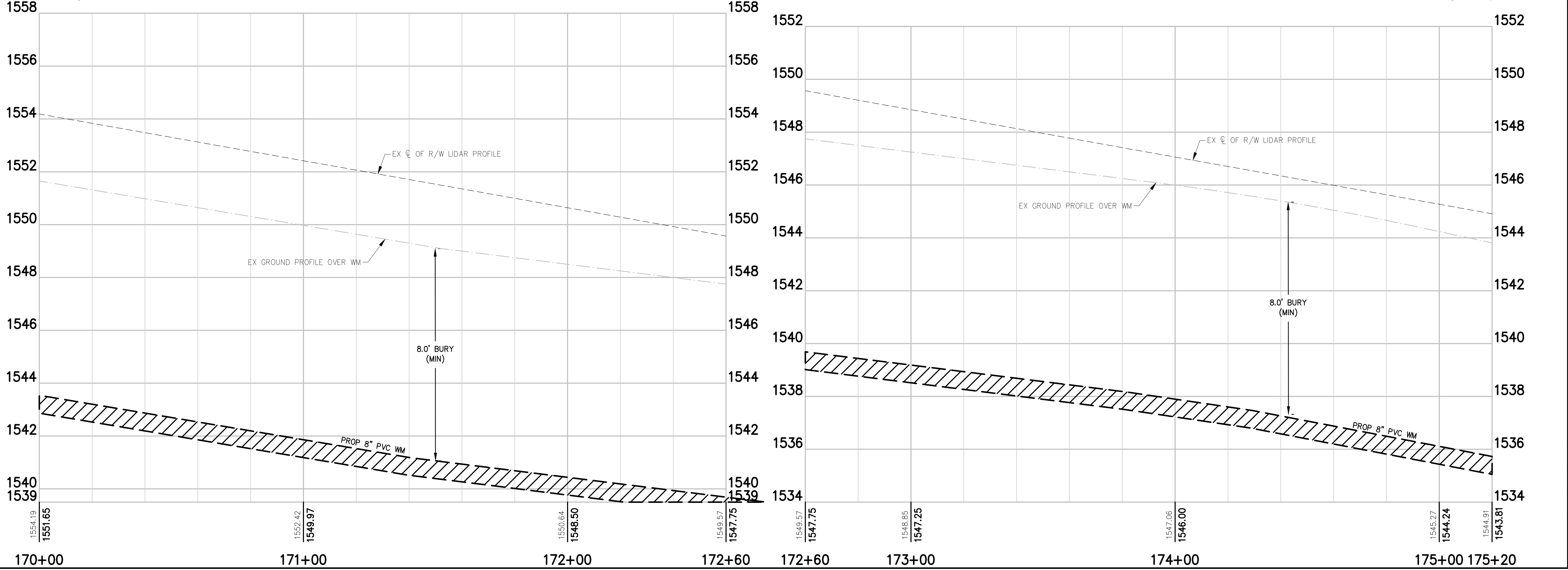
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HYDRANT
 170+15.68, 30.00 LT
 BREAKAWAY FLANGE
 ELEV: 1551.25
 10' - 6\"/>

NOTE:
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 - CONTRACTOR TO MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON COUNTY HIGHWAY. PROVIDE FLAGGERS TO MAINTAIN BI-DIRECTIONAL TRAFFIC WHILE COMPLETING WORK IN PROJECT AREA.
 - CONTRACTOR TO CONTACT FOREST COUNTY HIGHWAY DEPARTMENT FOR SIGN REMOVAL.
 - CONTRACTOR TO REMOVE AND RESET MAILBOXES.



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NO.	DATE	REVISION

CTH H WATERMAIN
FCPC BLACKWELL, FOREST COUNTY, WI
CTH H

DESIGNED
KJB

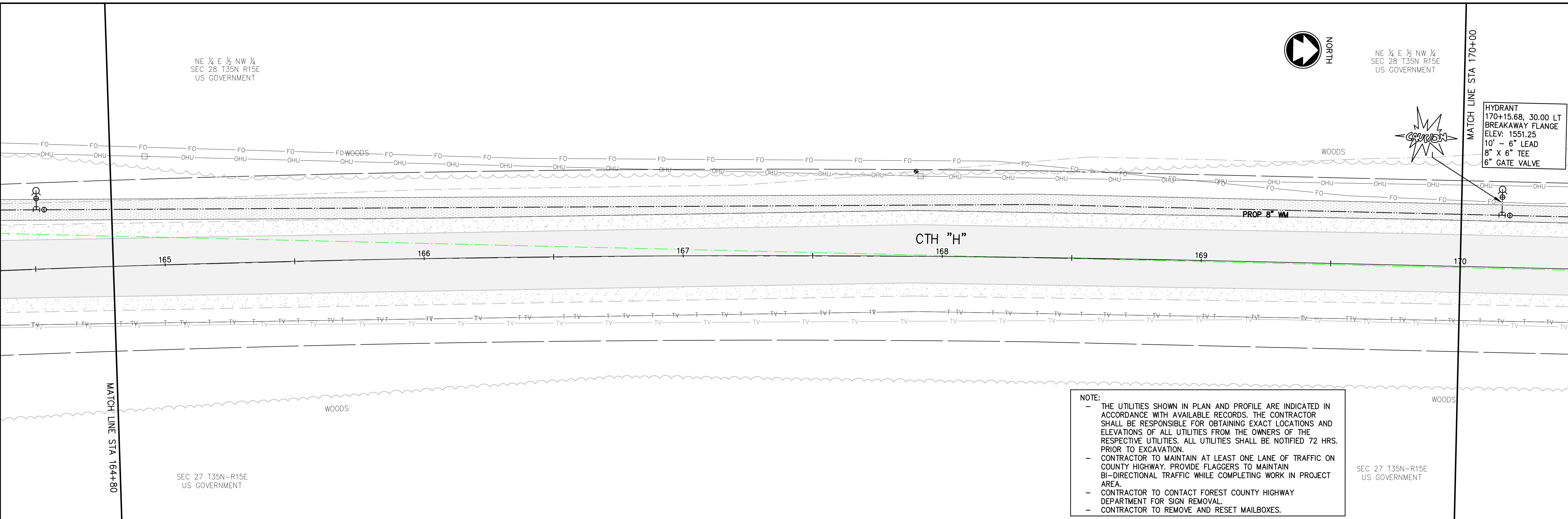
DRAWN
KJB

PROJECT NO.
F0954_09-22-00421

DATE
AUGUST, 2022

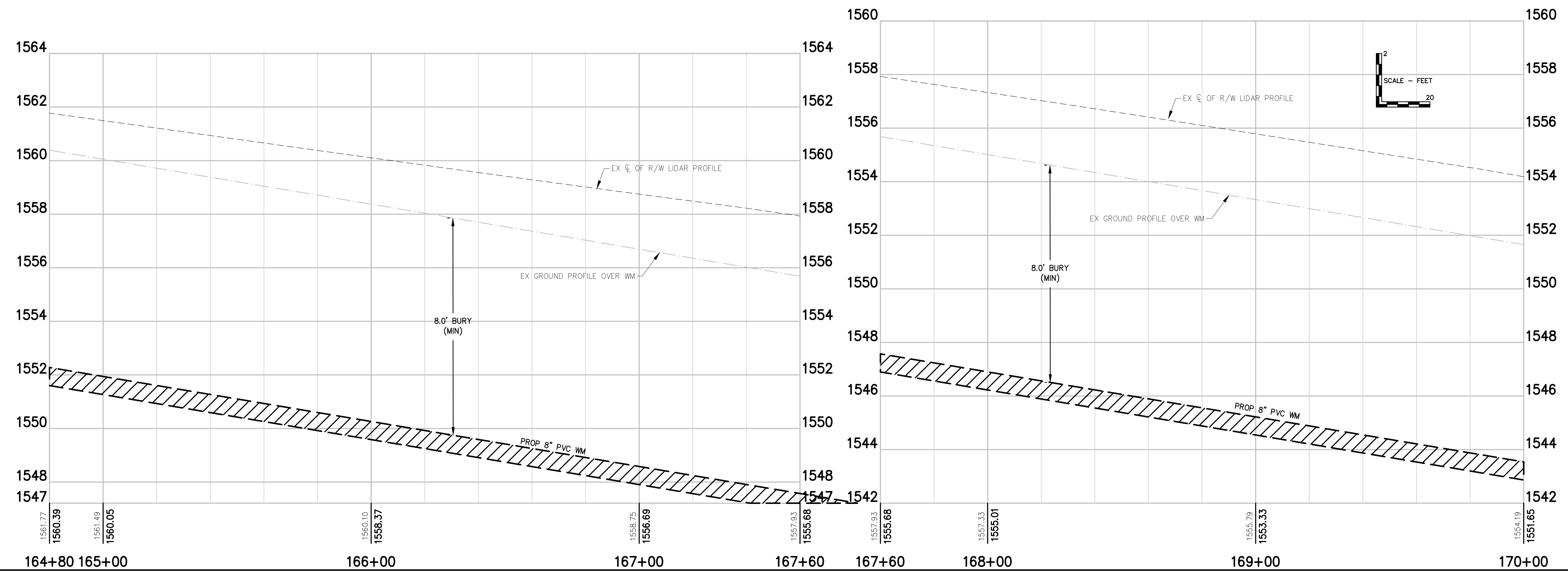
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HYDRANT
170+15.68, 30.00 LT
BREAKAWAY FLANGE
ELEV: 1551.25
10' - 6" LEAD
8" X 6" TEE
6" GATE VALVE

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KJB

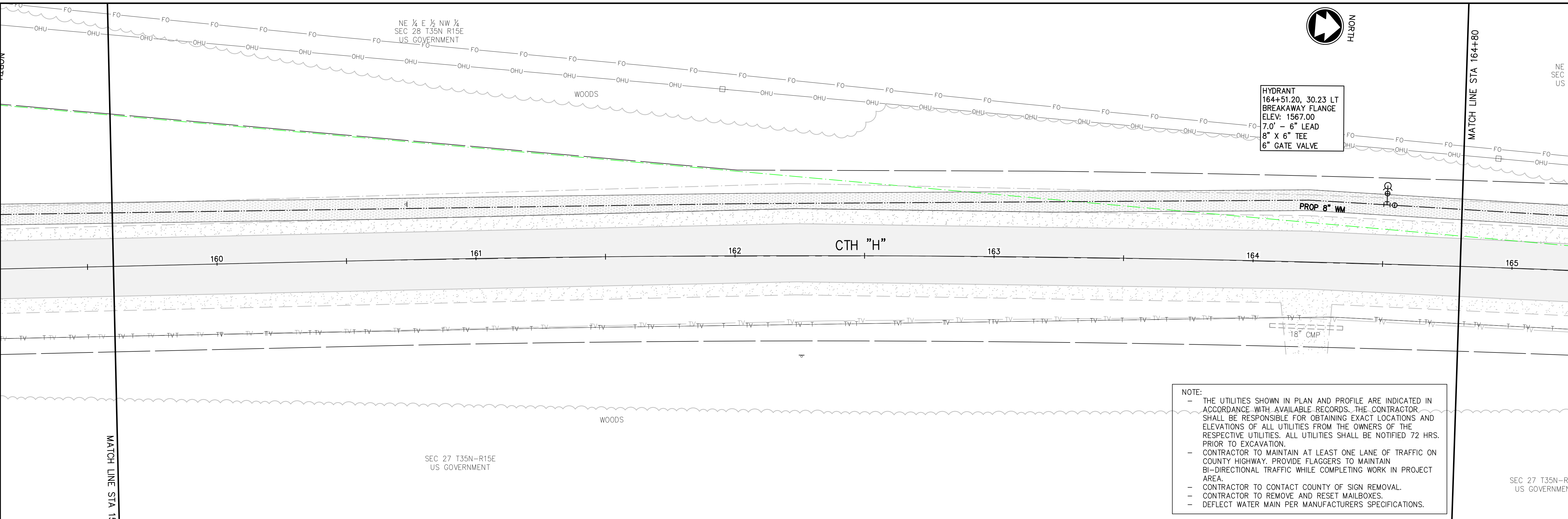
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PROJECT NO.
F0954_09-22-00421

DATE
AUGUST, 2022

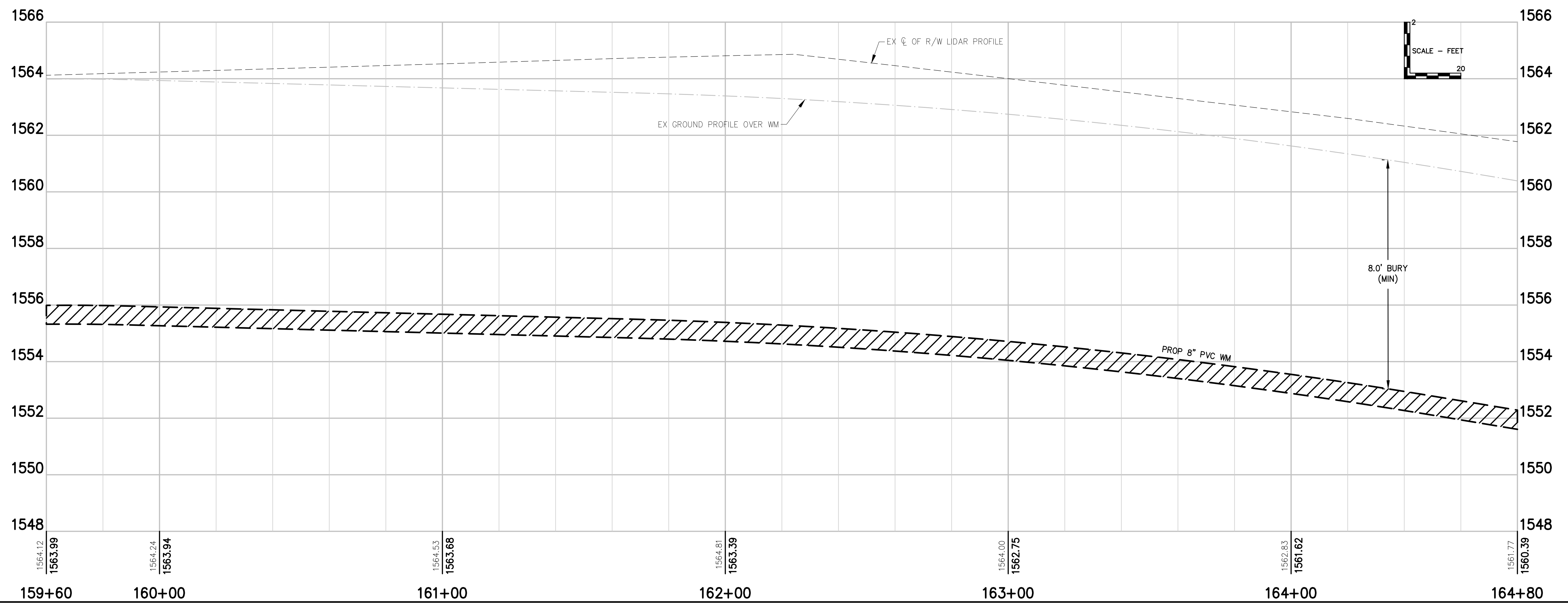
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HYDRANT
 164+51.20, 30.23 LT
 BREAKAWAY FLANGE
 ELEV: 1567.00
 7'0" - 6" LEAD
 8" X 6" TEE
 6" GATE VALVE

NOTE:
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 - CONTRACTOR TO CONTACT COUNTY OF SIGN REMOVAL.
 - CONTRACTOR TO REMOVE AND RESET MAILBOXES.
 - DEFLECT WATER MAIN PER MANUFACTURERS SPECIFICATIONS.



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CTH H

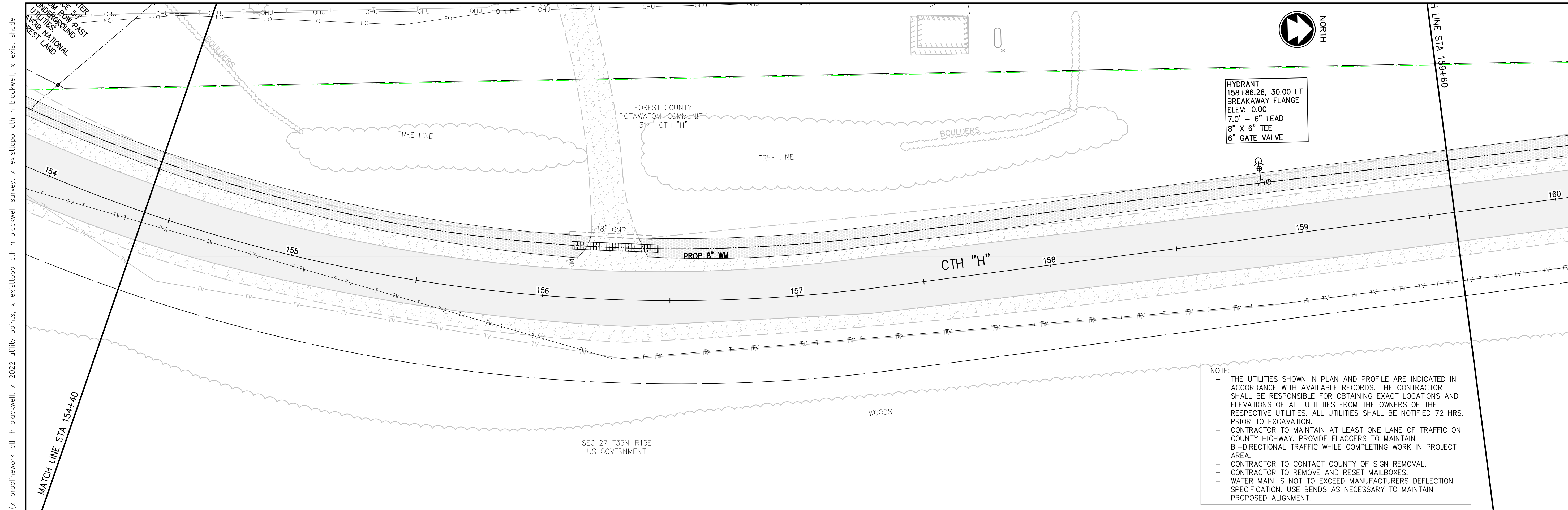
DESIGNED
KJB

DRAWN
KJB

PROJECT NO.
F0954 09-22-00421

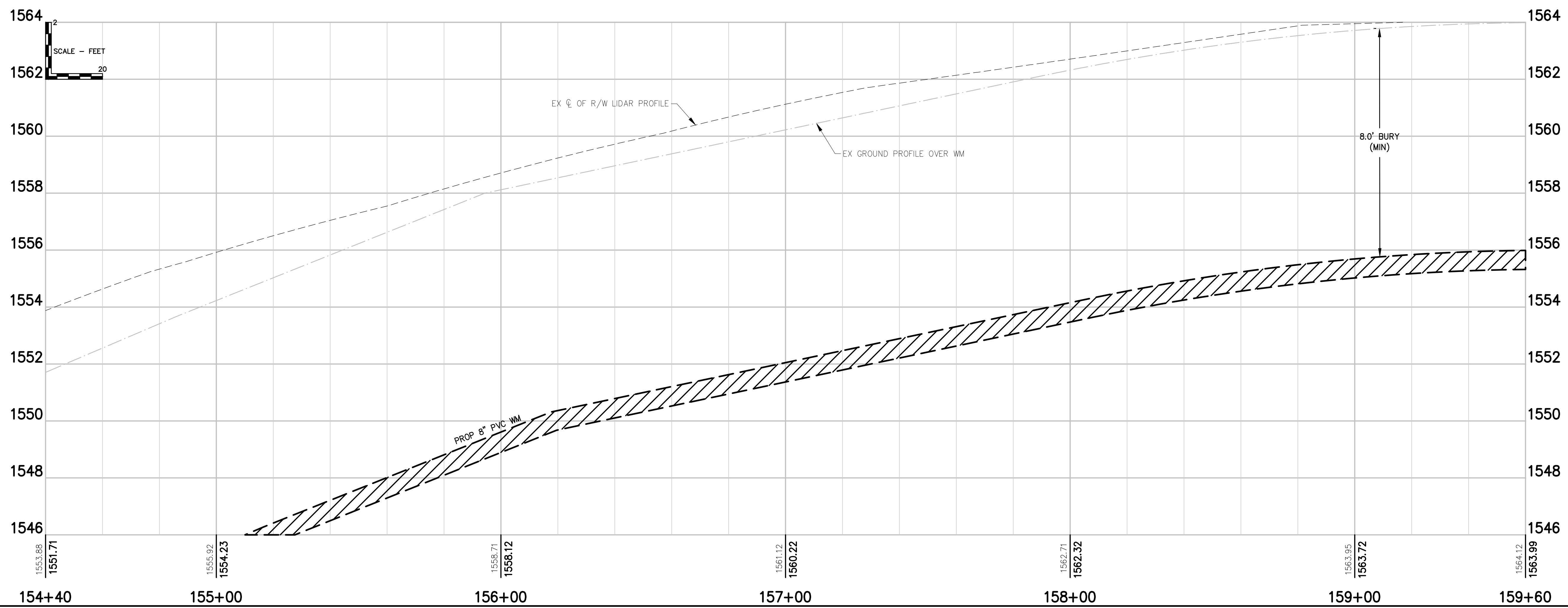
DATE
AUGUST, 2022

SHEET NO.
12



HYDRANT
 158+86.26, 30.00 LT
 BREAKAWAY FLANGE
 ELEV: 0.00
 7.0' - 6\"/>

NOTE:
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 - CONTRACTOR TO CONTACT COUNTY OF SIGN REMOVAL.
 - CONTRACTOR TO REMOVE AND RESET MAILBOXES.
 - WATER MAIN IS NOT TO EXCEED MANUFACTURERS DEFLECTION SPECIFICATION. USE BENDS AS NECESSARY TO MAINTAIN PROPOSED ALIGNMENT.



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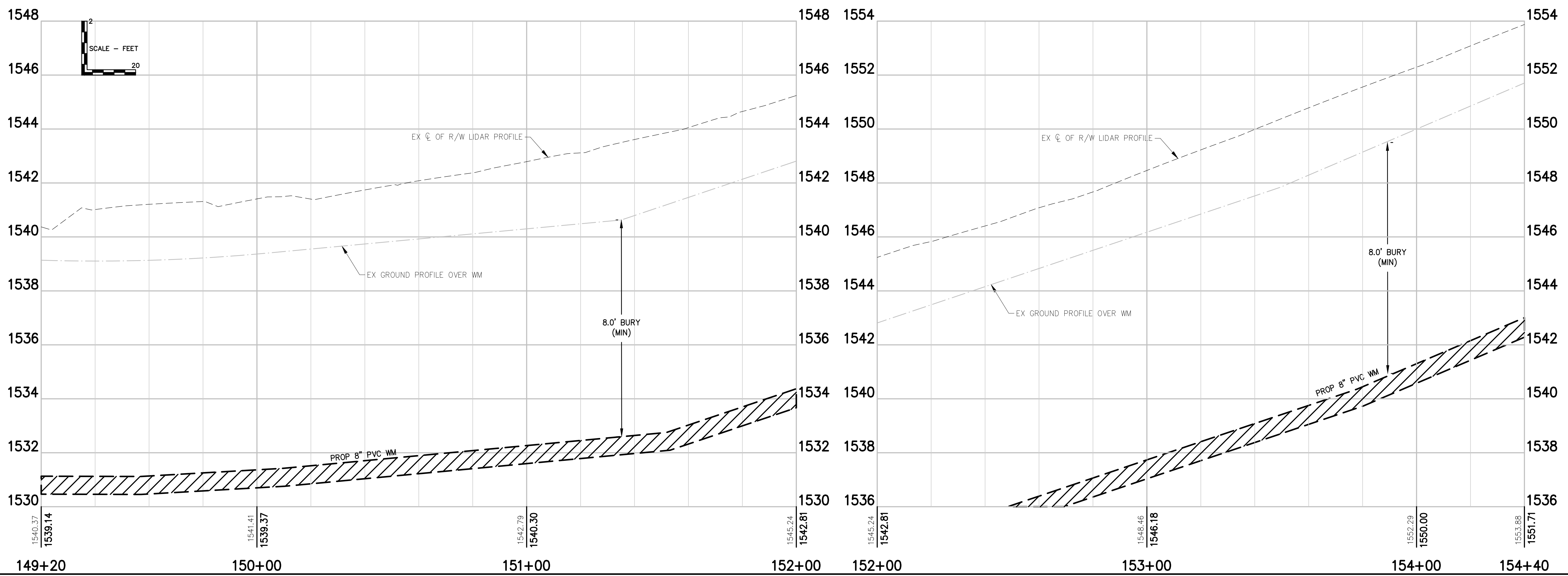
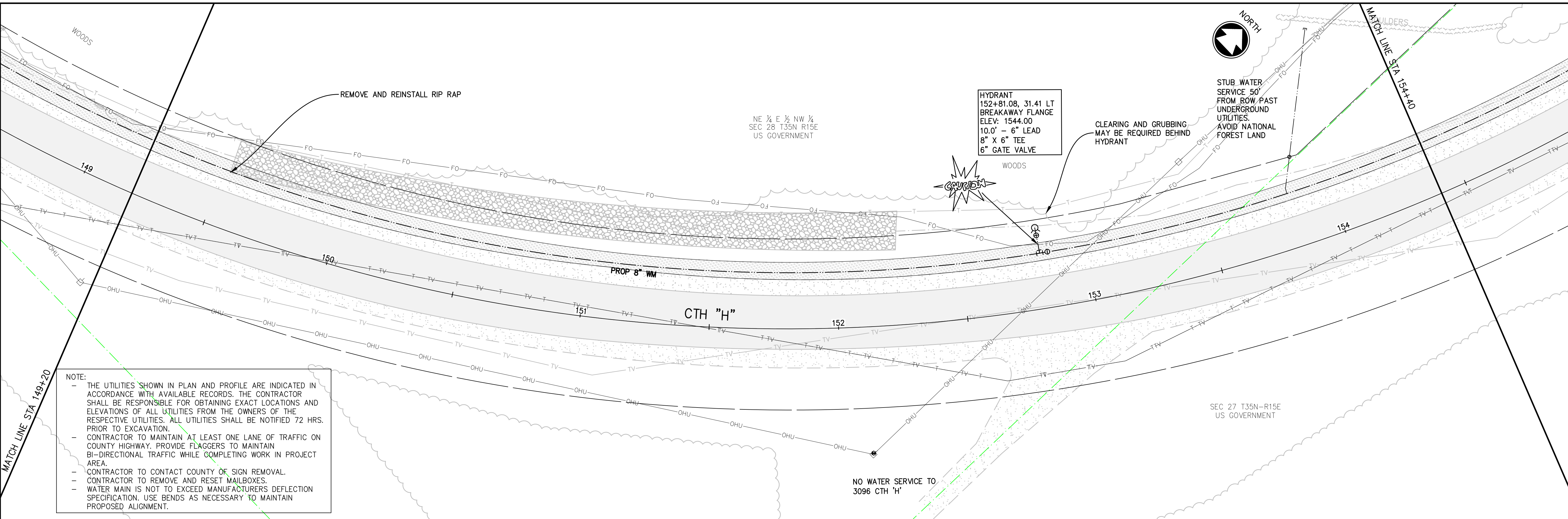
DRAWN
KJB

PROJECT NO.
F0954_09-22-00421

DATE
AUGUST, 2022

SHEET NO.
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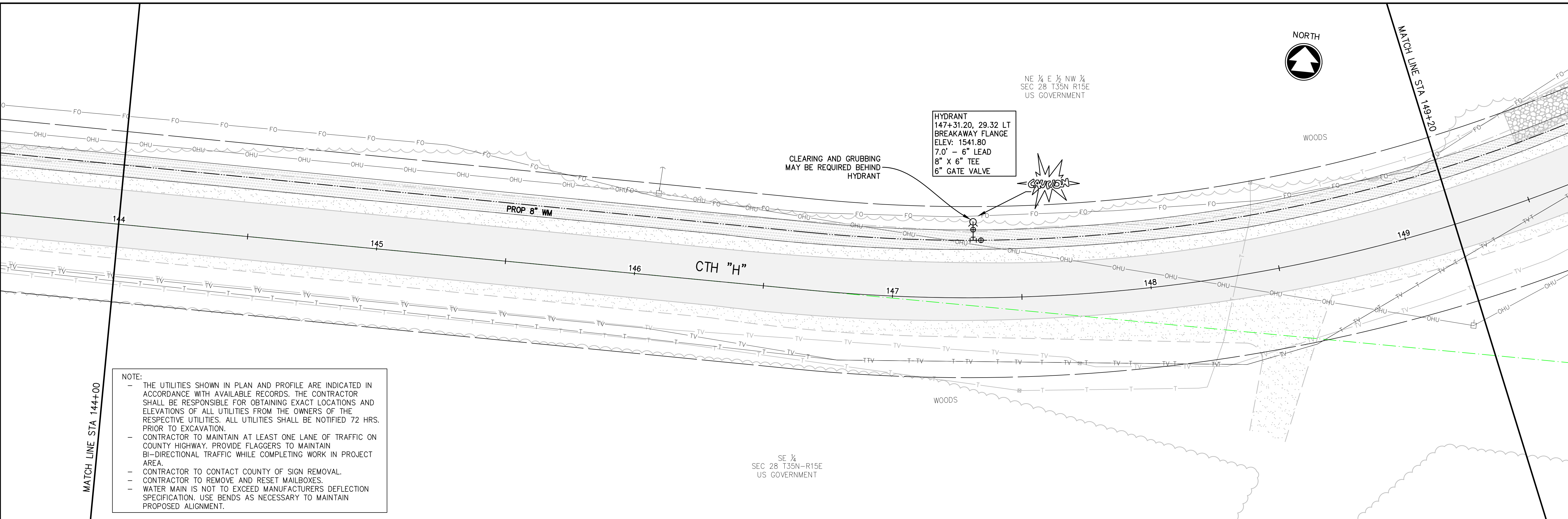
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CTH H WATERMAIN
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CTH H

DESIGNED KJB	DRAWN KJB
PROJECT NO. F0954_09-22-00421	
DATE AUGUST, 2022	
SHEET NO. 14	

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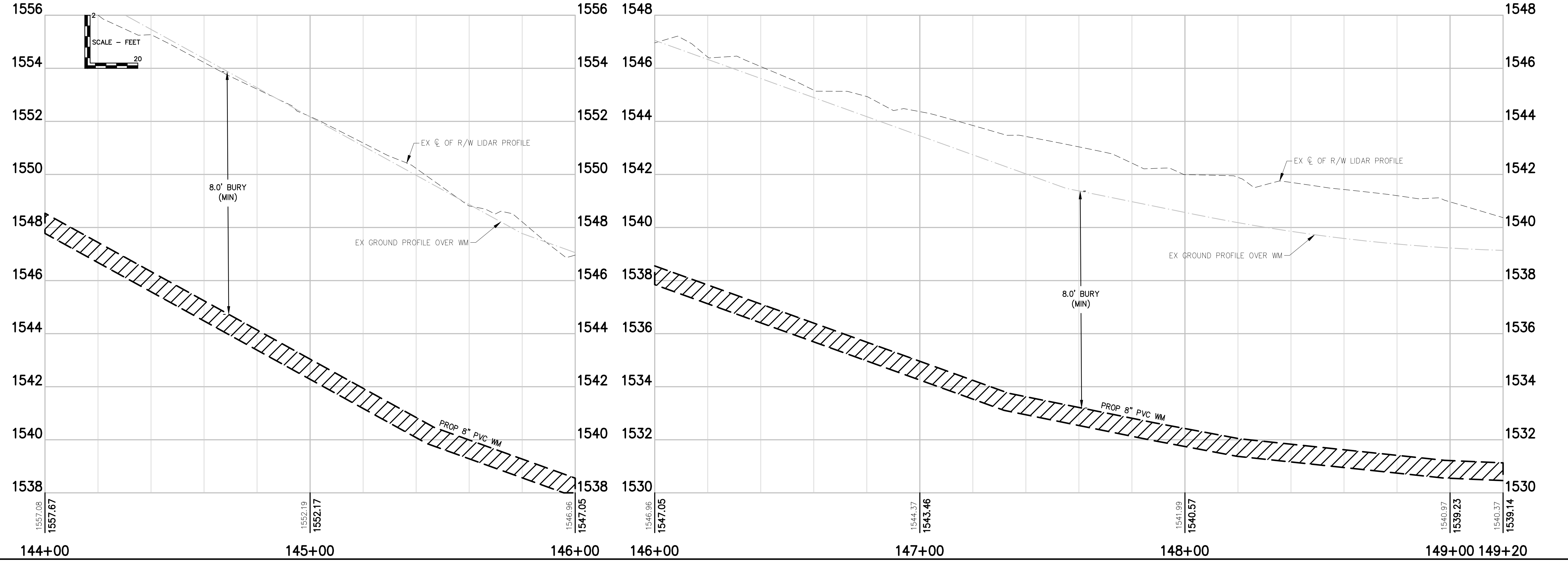
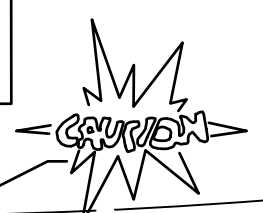


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- CONTRACTOR TO REMOVE AND RESET MAILBOXES.
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HYDRANT
 147+31.20, 29.32 LT
 BREAKAWAY FLANGE
 ELEV: 1541.80
 7.0' - 6" LEAD
 8" X 6" TEE
 6" GATE VALVE

CLEARING AND GRUBBING MAY BE REQUIRED BEHIND HYDRANT



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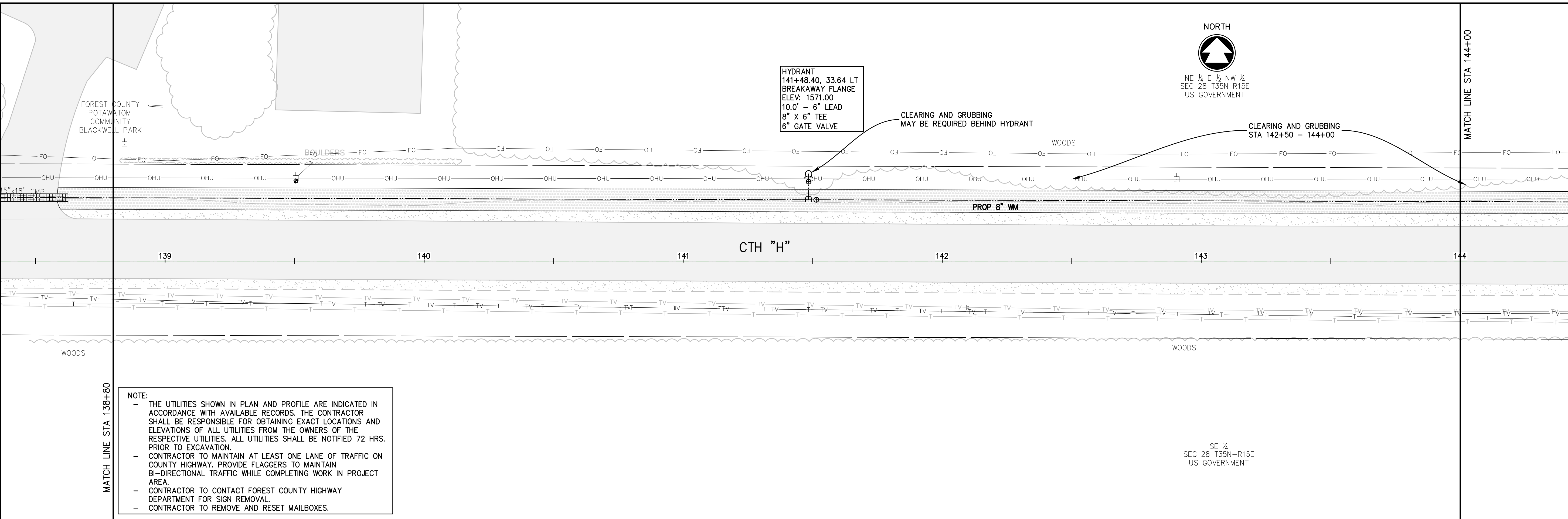
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NO.	DATE	REVISION

CTH H WATERMAIN
FCPC BLACKWELL, FOREST COUNTY, WI
CTH H

DESIGNED KJB	DRAWN KJB
PROJECT NO. F0954_09-22-00421	
DATE AUGUST, 2022	
SHEET NO. 15	

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HYDRANT
 141+48.40, 33.64 LT
 BREAKAWAY FLANGE
 ELEV: 1571.00
 10.0' - 6" LEAD
 8" X 6" TEE
 6" GATE VALVE

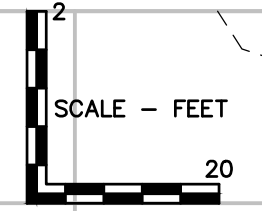
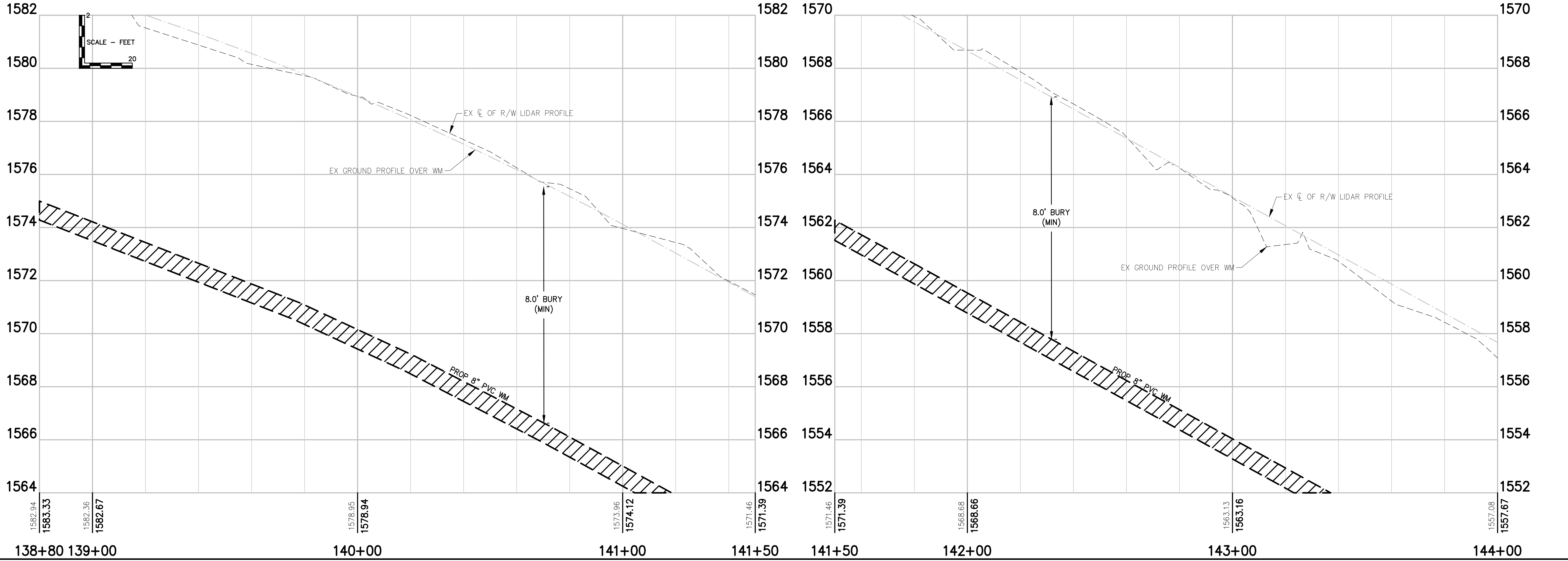


CLEARING AND GRUBBING MAY BE REQUIRED BEHIND HYDRANT

CLEARING AND GRUBBING STA 142+50 - 144+00

MATCH LINE STA 138+80

MATCH LINE STA 144+00



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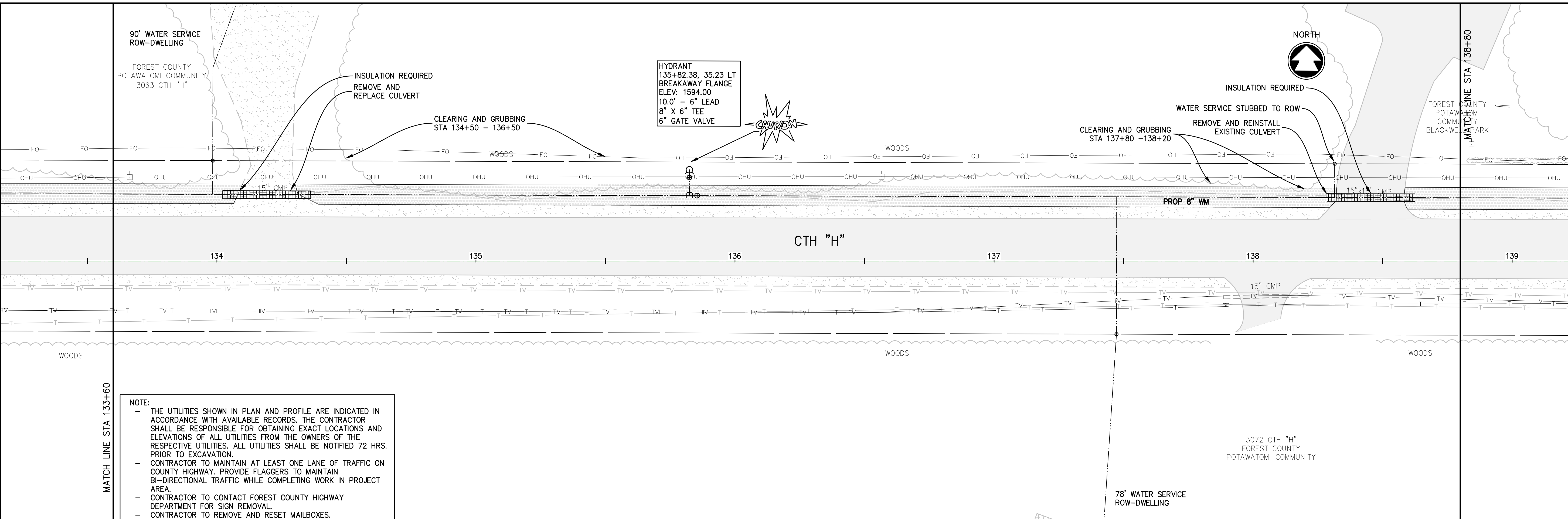
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NO.	DATE	REVISION

CTH H WATERMAIN
FCPC BLACKWELL, FOREST COUNTY, WI
CTH H

DESIGNED KJB	DRAWN KJB
PROJECT NO. F0954_09-22-00421	
DATE AUGUST, 2022	
SHEET NO. 16	

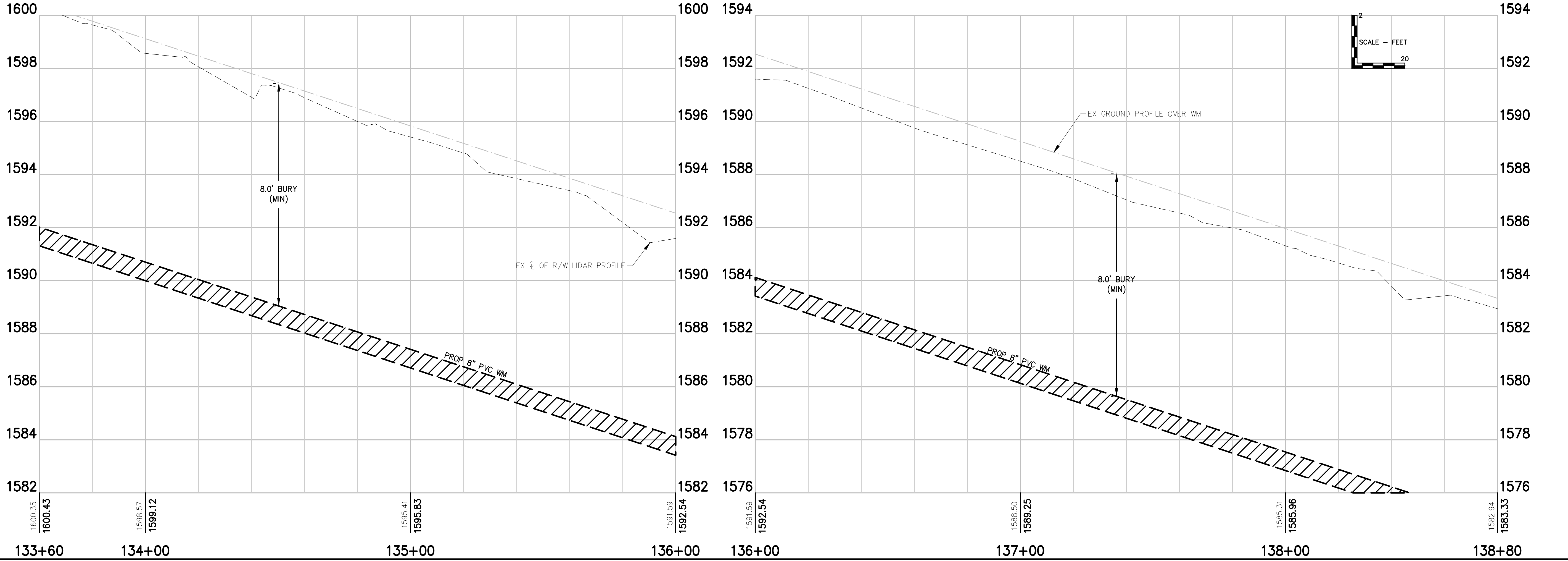
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HYDRANT
 135+82.38, 35.23 LT
 BREAKAWAY FLANGE
 ELEV: 1594.00
 10.0' - 6" LEAD
 8" X 6" TEE
 6" GATE VALVE



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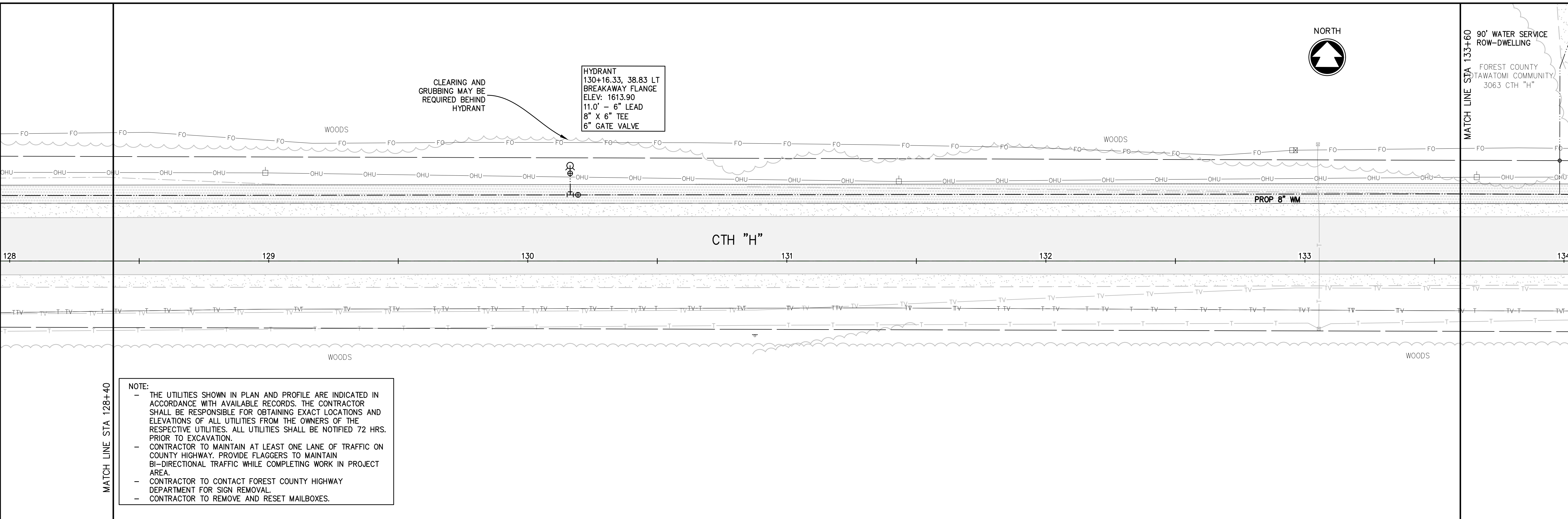
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NO.	DATE	REVISION

CTH H WATERMAIN
FCPC BLACKWELL, FOREST COUNTY, WI
 CTH H

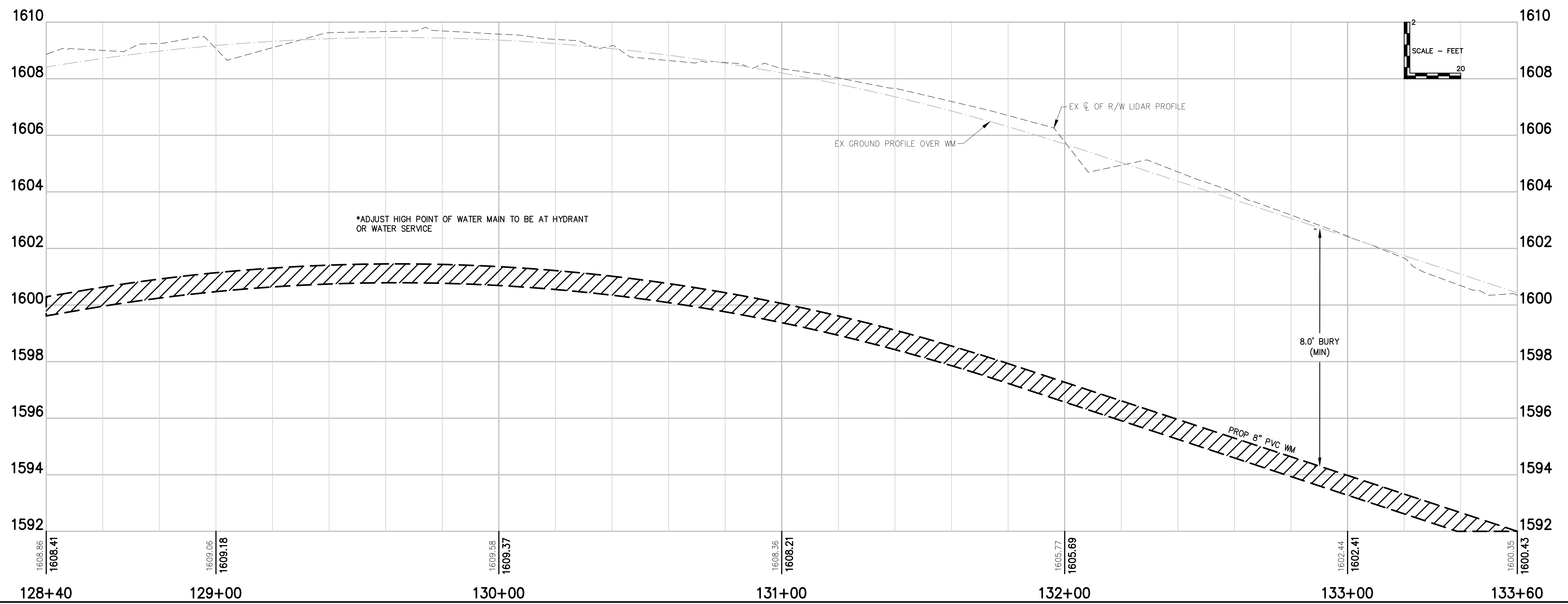
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PROJECT NO. F0954 09-22-00421	
DATE AUGUST, 2022	
SHEET NO. 17	

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NO.	DATE	REVISION

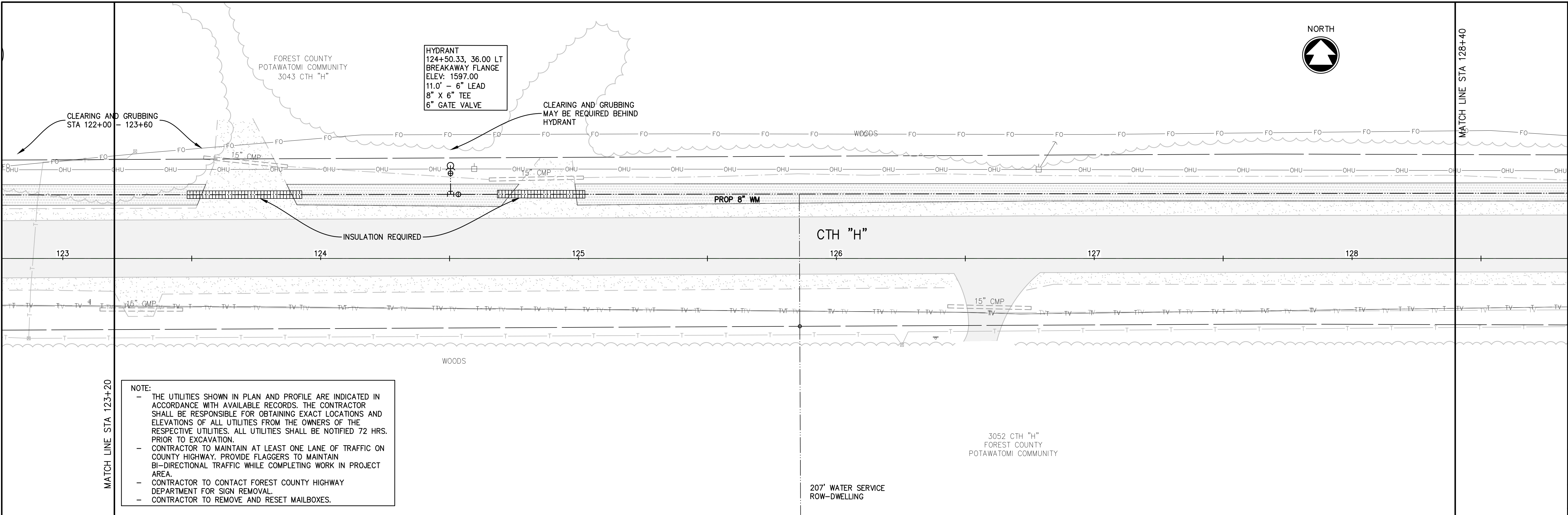
CTH H WATERMAIN

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CTH H

DESIGNED KJB	DRAWN KJB
PROJECT NO. F0954_09-22-00421	
DATE AUGUST, 2022	
SHEET NO. 18	

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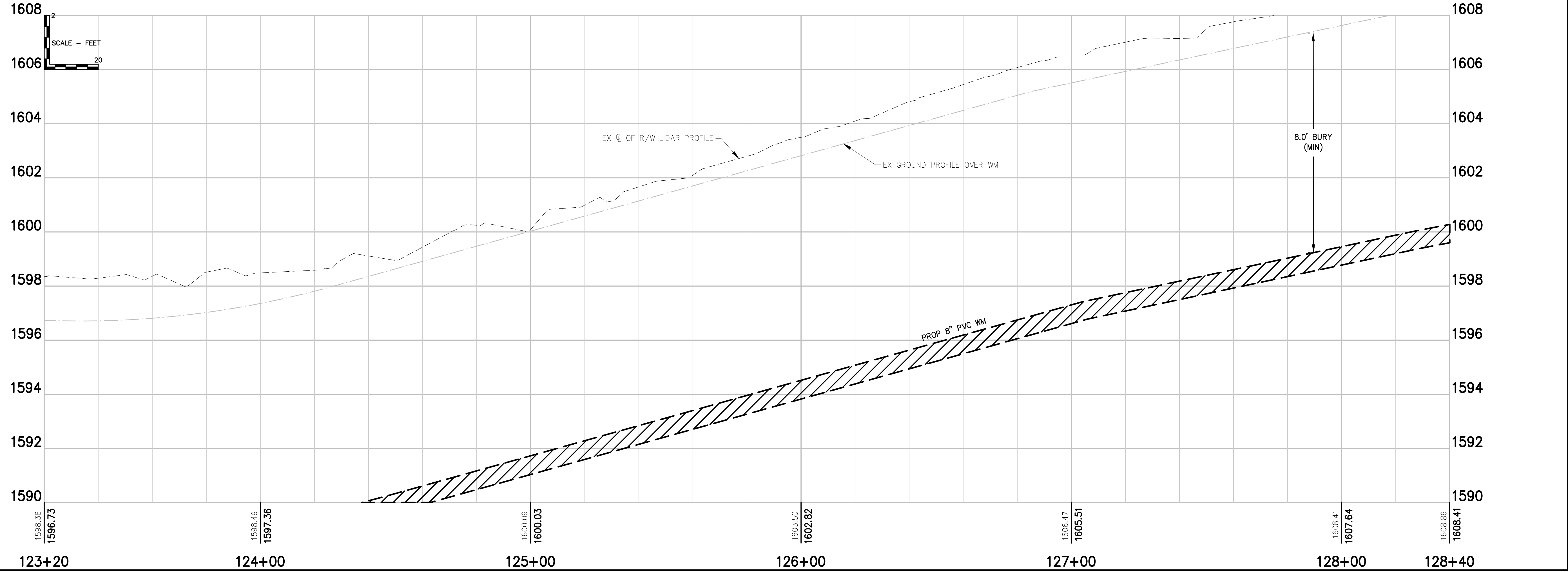


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HYDRANT
 124+50.33, 36.00 LT
 BREAKAWAY FLANGE
 ELEV: 1597.00
 11.0' - 6" LEAD
 8" X 6" TEE
 6" GATE VALVE

CLEARING AND GRUBBING
MAY BE REQUIRED BEHIND
HYDRANT



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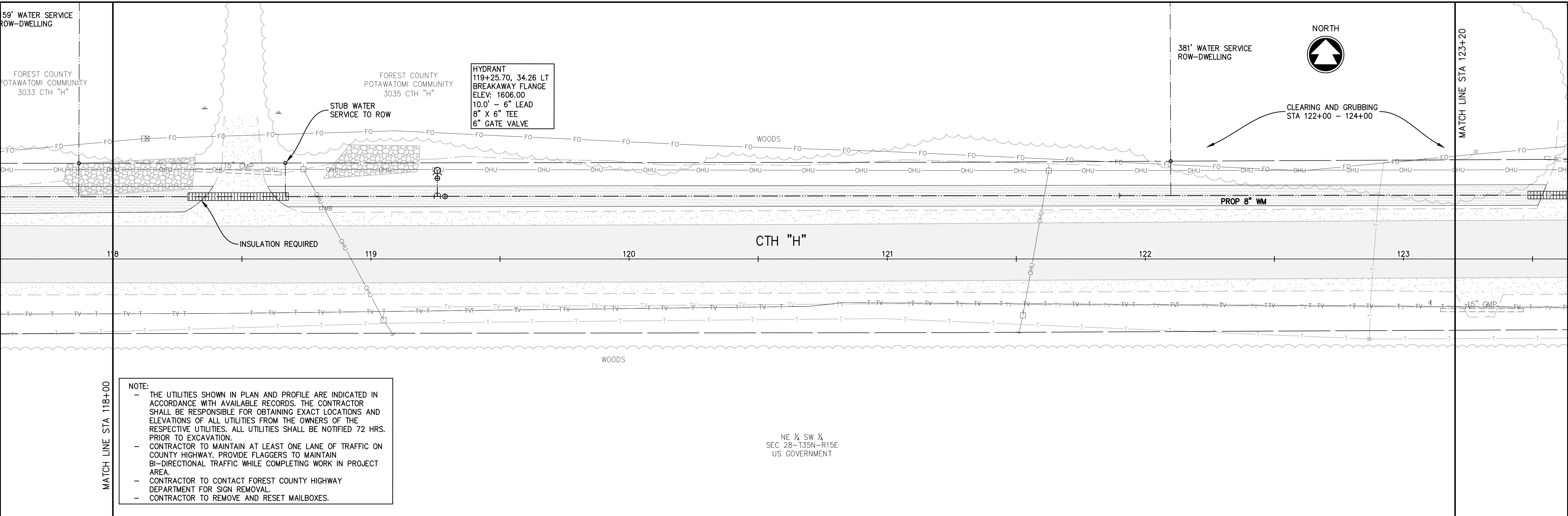
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CTH H

DESIGNED KJB	DRAWN KJB
PROJECT NO. F0954_09-22-00421	
DATE AUGUST, 2022	
SHEET NO. 19	

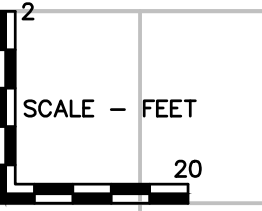
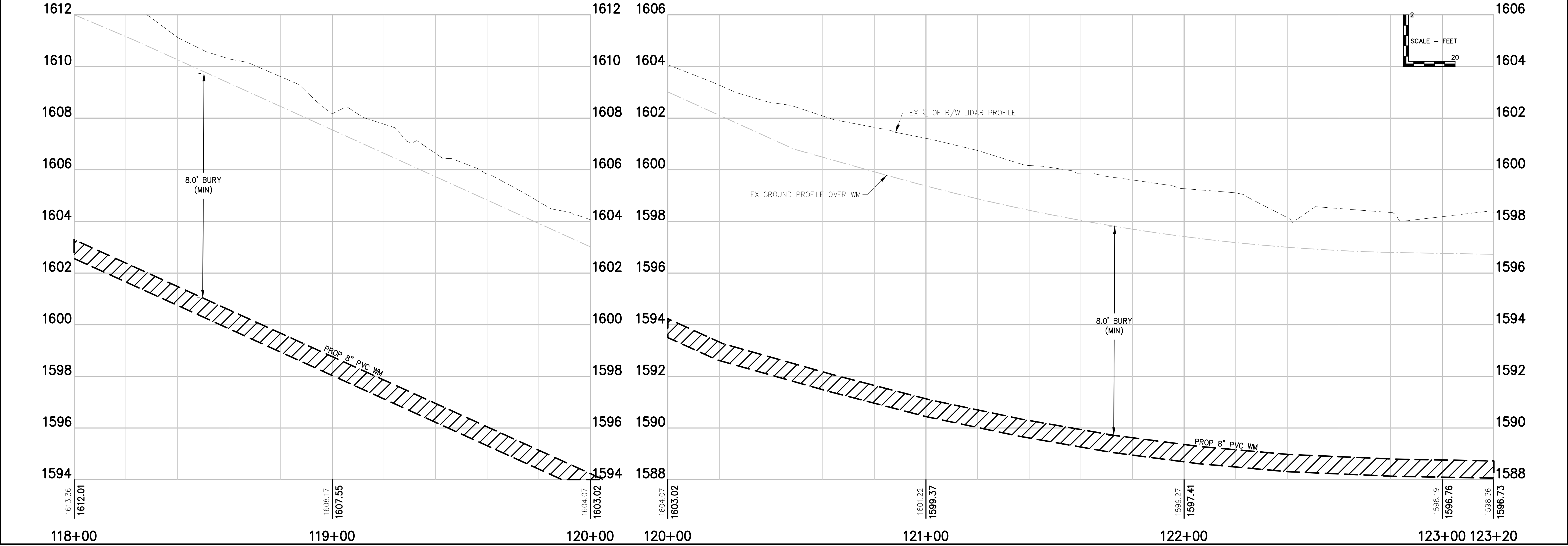
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NOTE:

- THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.
- CONTRACTOR TO MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON COUNTY HIGHWAY. PROVIDE FLAGGERS TO MAINTAIN BI-DIRECTIONAL TRAFFIC WHILE COMPLETING WORK IN PROJECT AREA.
- CONTRACTOR TO CONTACT FOREST COUNTY HIGHWAY DEPARTMENT FOR SIGN REMOVAL.
- CONTRACTOR TO REMOVE AND RESET MAILBOXES.

NE 1/4 SW 1/4
SEC 28-T35N-R15E
US GOVERNMENT



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ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.
1448 McMAHON DRIVE NEENAH, WI 54956
Mailing: P.O. BOX 1025 NEENAH, WI 54957-1025
PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

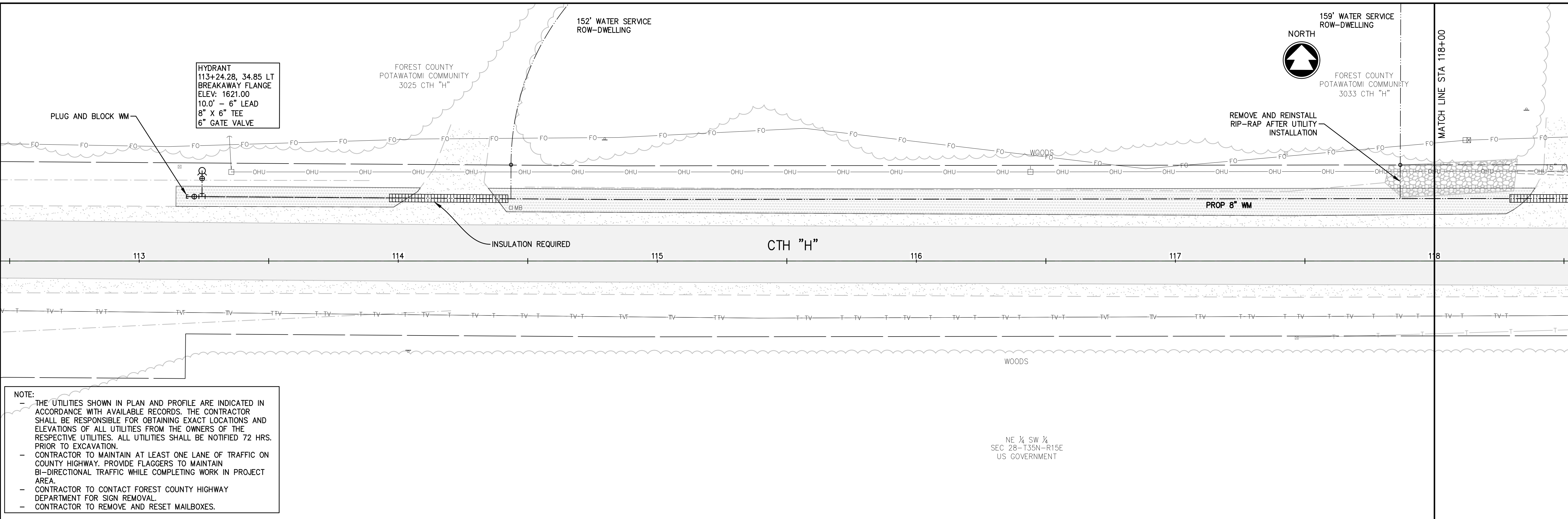
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CTH H WATERMAIN
FCPC BLACKWELL, FOREST COUNTY, WI
CTH H

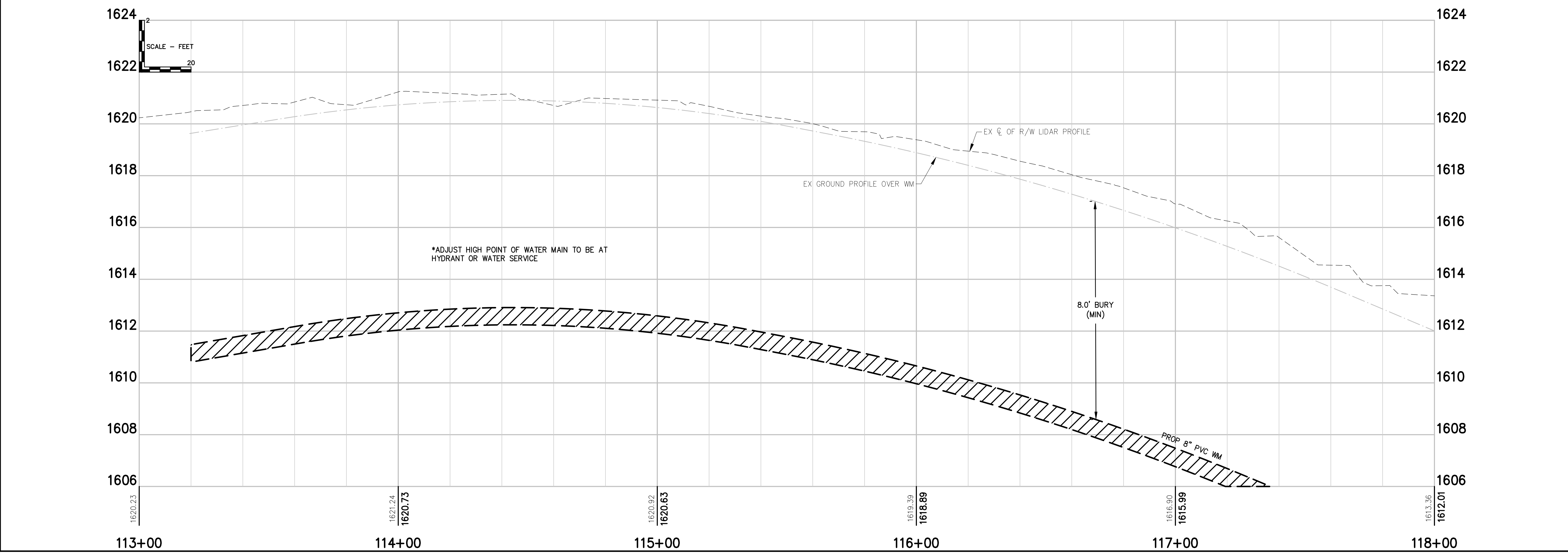
DESIGNED KJB	DRAWN KJB
PROJECT NO. F0954_09-22-00421	
DATE AUGUST, 2022	
SHEET NO. 20	

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NOTE:

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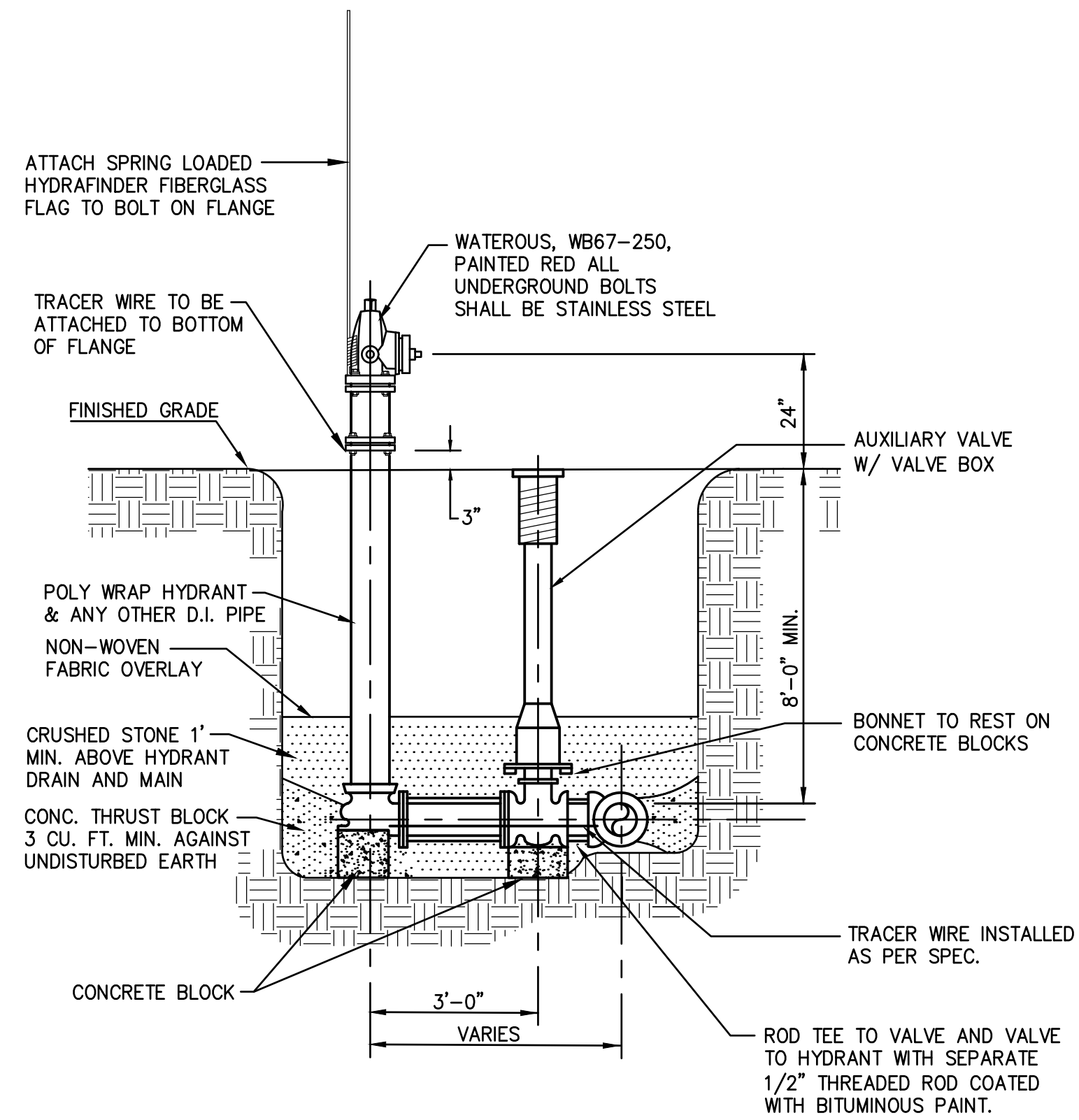
CTH H WATERMAIN
FCPC BLACKWELL, FOREST COUNTY, WI
CTH H

DESIGNED: KJB
DRAWN: KJB

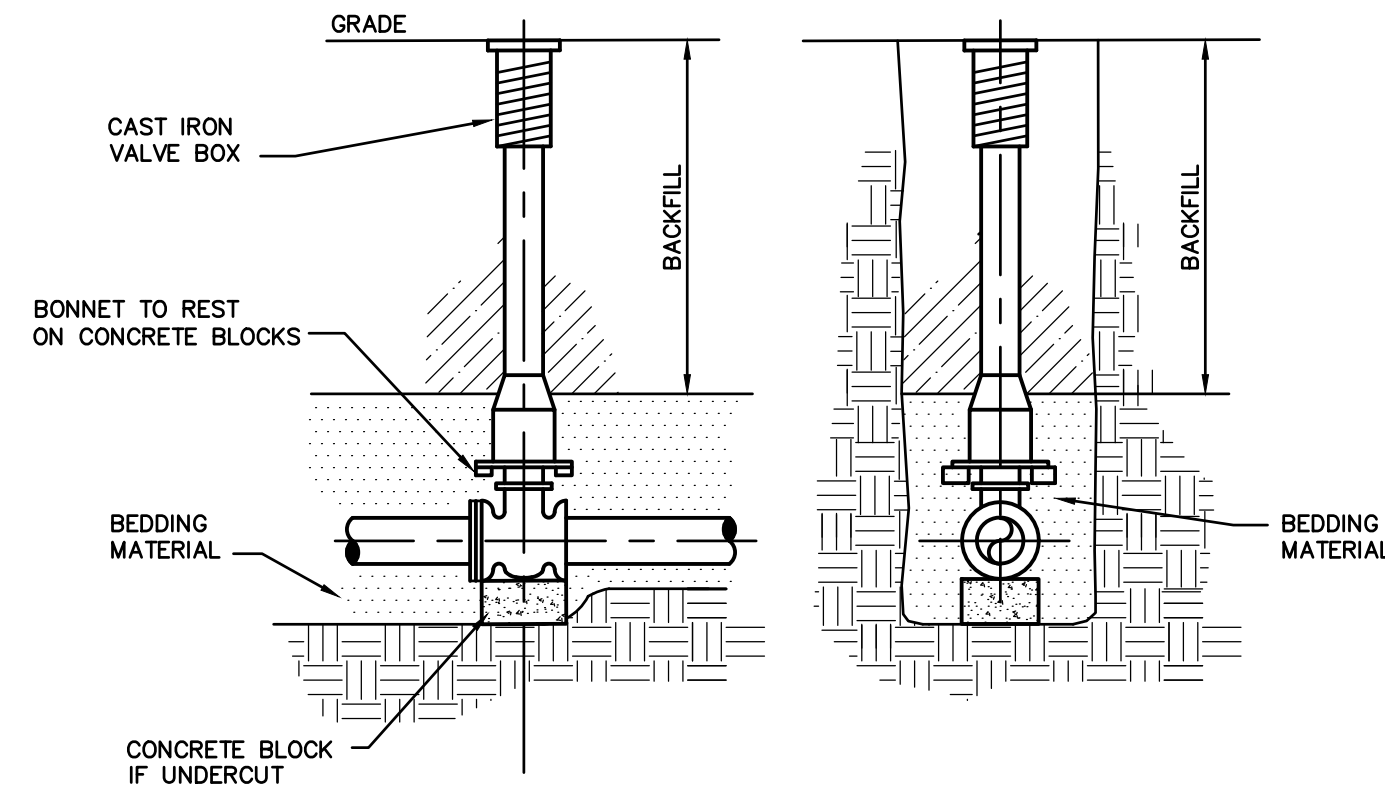
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DATE: AUGUST, 2022

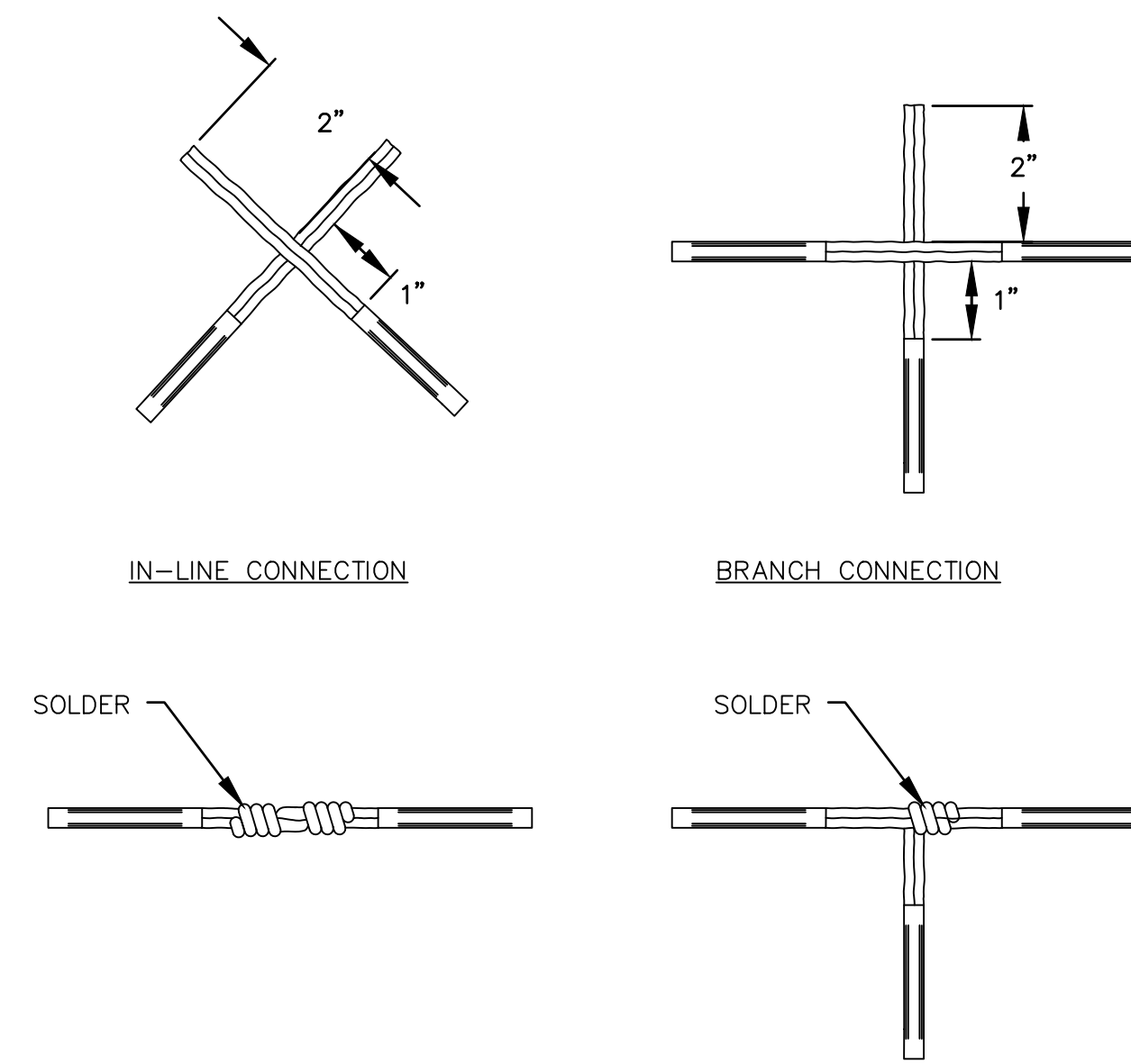
SHEET NO.: **21**



HYDRANT & VALVE INSTALLATION DETAIL



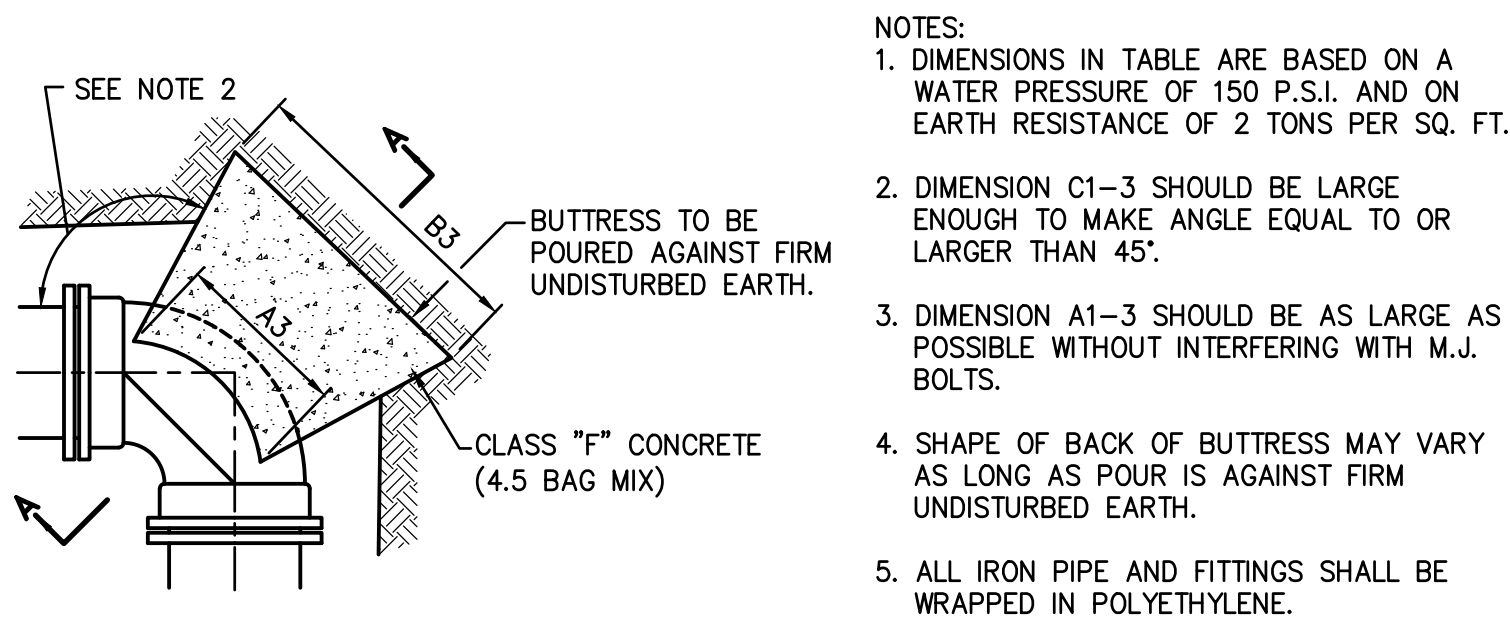
STANDARD VALVE & VALVE BOX SETTING



NOTES:

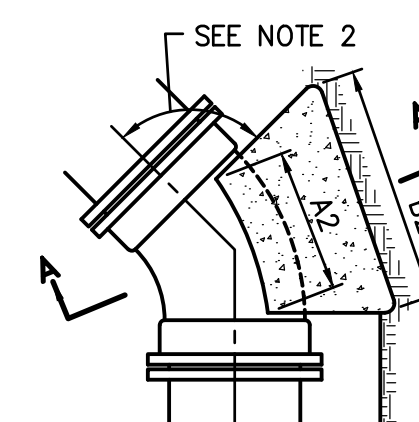
- CUT OFF INSULATION FROM WIRE AS SHOWN IN THE DRAWING, BUT DO NOT CUT THE COPPER WIRE.
- LOOP THE WIRE ENDS AT LEAST 4 TIMES ON BOTH SIDES OF THE CONNECTION.
- USING A PROPANE TORCH, APPLY FLAME DIRECTLY TO JOINT (LOOPS) TO BE SOLDERED.
- APPLY 62SN OR EQUIVALENT ROSIN CORE SOLDER TO THE SPLICE. SOLDER SHOULD FLOW INTO JOINT.
- SOLDERING PASTE MUST BE APPLIED TO THE LOOPS BEFORE HEAT IS APPLIED IF ROSIN CORE SOLDER IS NOT USED.
- WHEN COOLED, COVER SPLICE WITH 3M SCOTCHFILL™ ELECTRICAL INSULATION PUTTY OR EQUIVALENT. THEN COAT THE PUTTY WITH 3M SCOTCHKOTE™ ELECTRICAL COATING OR EQUIVALENT.

TRACER WIRE SPLICE DETAIL

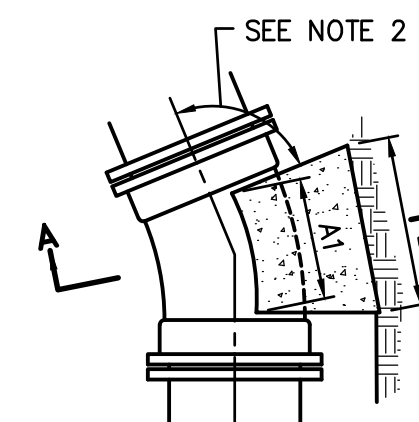


- NOTES:
- DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND ON EARTH RESISTANCE OF 2 TONS PER SQ. FT.
 - DIMENSION C1-3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45°.
 - DIMENSION A1-3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH M.J. BOLTS.
 - SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM UNDISTURBED EARTH.
 - ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

PLAN - 90° BEND

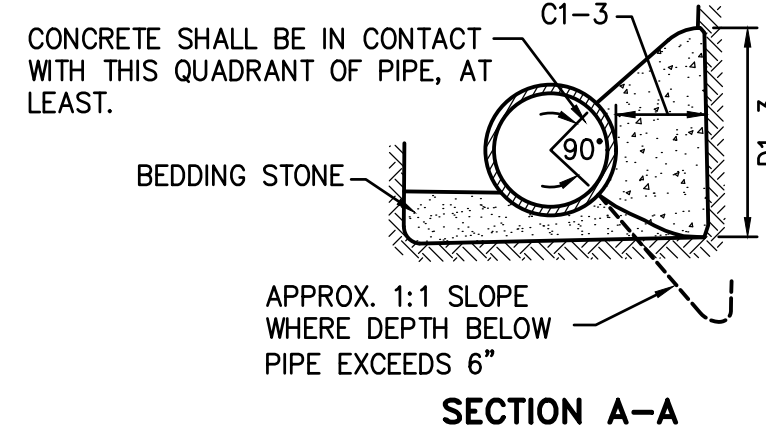


PLAN - 45° BEND

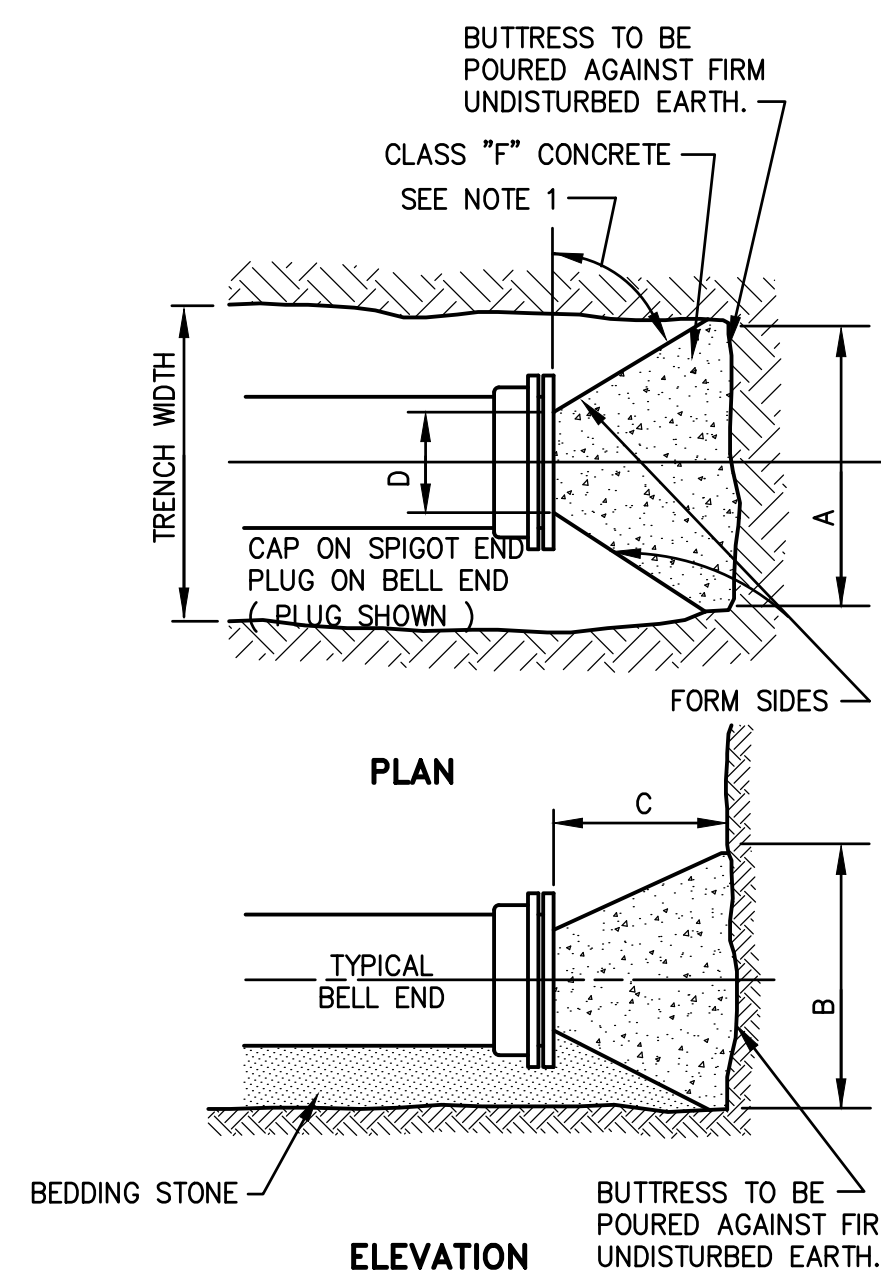


PLAN - 22-1/2° BEND

PIPE SIZE	BUTTRESS DIMENSIONS					
	22-1/2° BENDS		45° BENDS		90° BENDS	
	B1	D1	B2	D2	B3	D3
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-0"	2'-3"
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"
20"	2'-4"	2'-0"	3'-3"	2'-10"	3'-0"	3'-4"
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"
30"	3'-6"	3'-0"	5'-4"	3'-10"	8'-0"	4'-8"



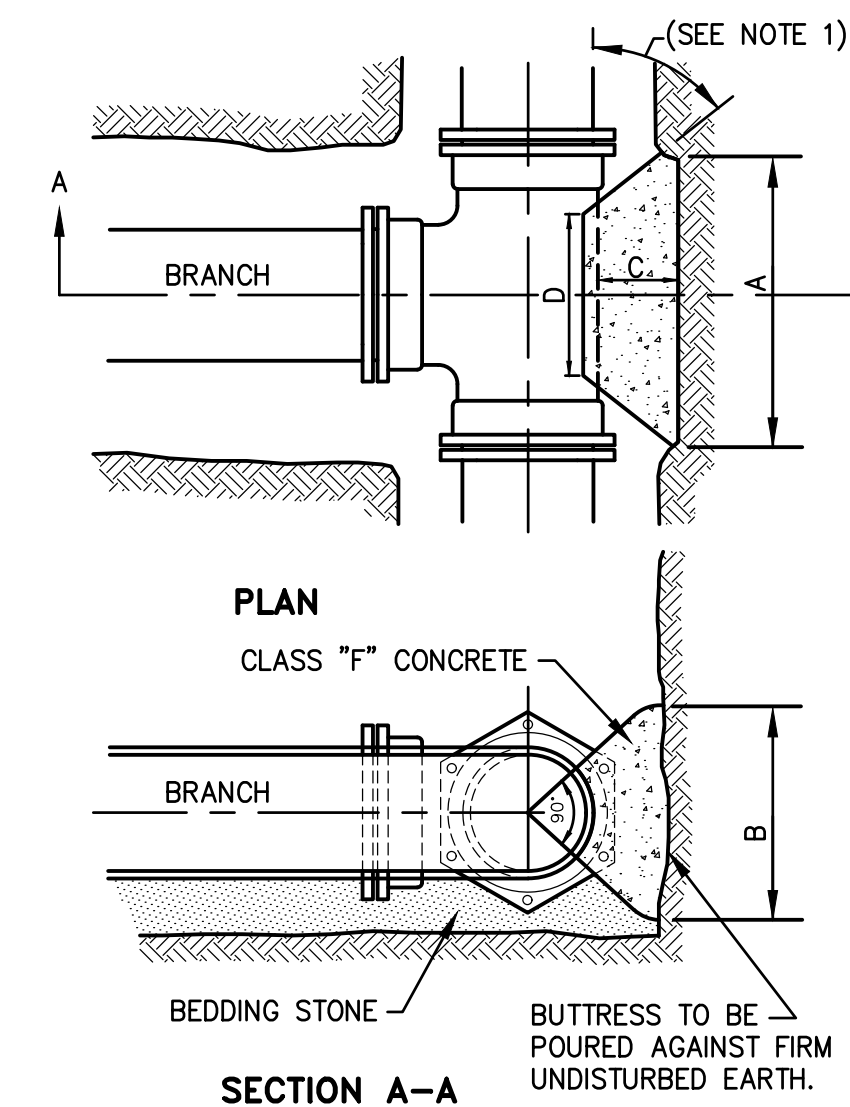
BLOCKING FOR BENDS



BLOCKING FOR PLUGS

DIA.	BUTTRESS DIMENSIONS			
	A	B	C	D
6"	1'-6"	1'-2"	SEE NOTE 2	SEE NOTE 3
8"	2'-0"	1'-4"		
12"	2'-5"	1'-10"		
16"	3'-4"	2'-4"		
20"	4'-3"	2'-10"		
24"	5'-2"	3'-4"		
30"	6'-9"	4'-0"		

- NOTES:
- DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND ON EARTH RESISTANCE OF 2 TONS PER SQ. FT.
 - DIMENSION C SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45°.
 - DIMENSION D SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH M.J. BOLTS.
 - SHAPE OF BACK OF BUTTRESS MAY VARY AS LONG AS POUR IS AGAINST FIRM UNDISTURBED EARTH.
 - ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.



BLOCKING FOR TEES

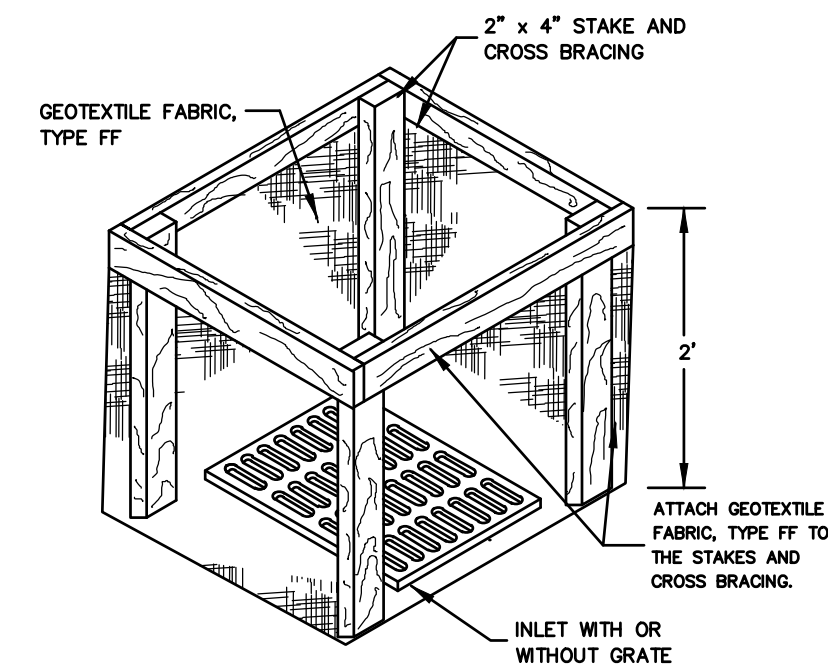
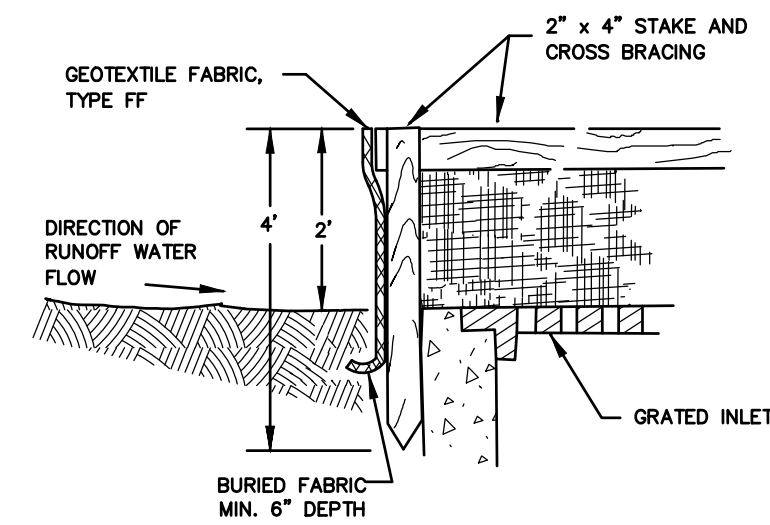
B.D.	BUTTRESS DIMENSIONS			
	A	B	C	D
6"	1'-3"	1'-0"	SEE NOTE 1	SEE NOTE 2
8"	1'-6"	1'-4"		
12"	2'-3"	2'-0"		
16"	3'-2"	2'-6"		
20"	4'-0"	3'-0"		
24"	5'-3"	3'-4"		
30"	6'-6"	4'-3"		

- B.D. = BRANCH DIAMETER
- NOTES:
- DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45°.
 - DIMENSION "D" EQUALS APPROX. I.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT THE CONCRETE FROM COVERING THE M.J. BOLTS.
 - WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED.
 - DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND ON EARTH RESISTANCE OF 2 TONS PER SQ. FT.
 - ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.

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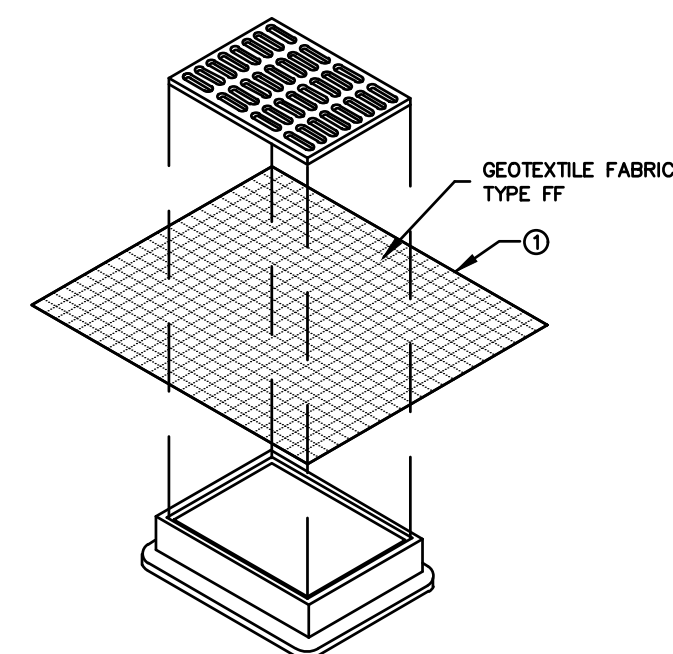
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NO.	DATE	REVISION

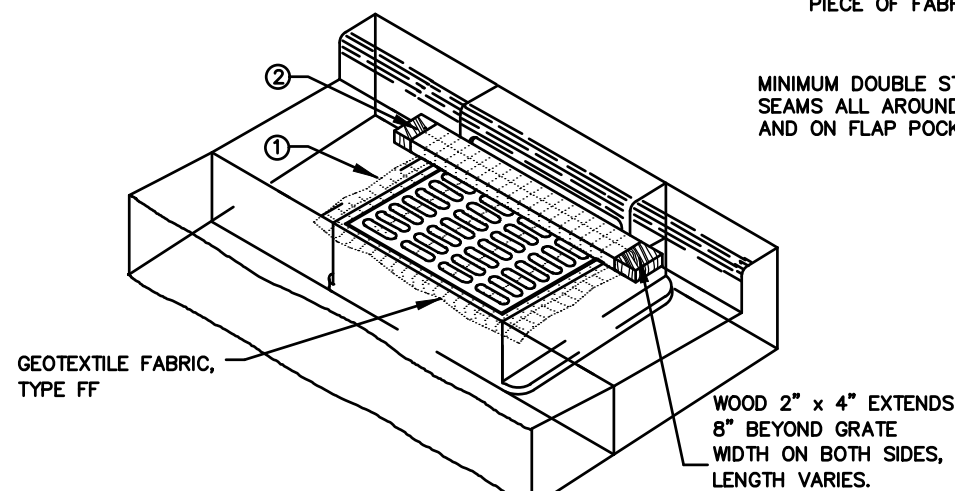


INLET PROTECTION, TYPE A

- GENERAL NOTES**
- MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
 - FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
 - FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

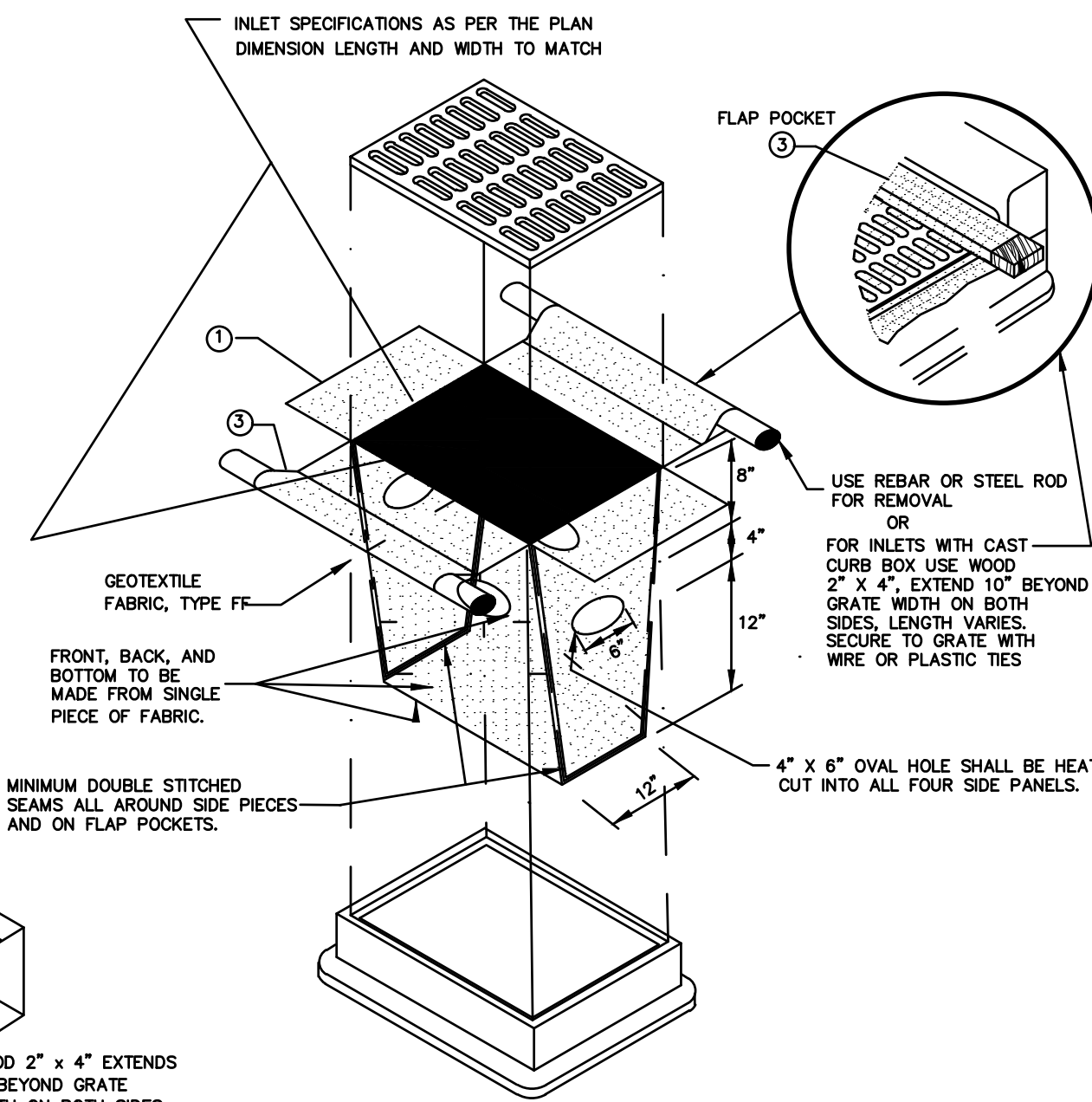


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



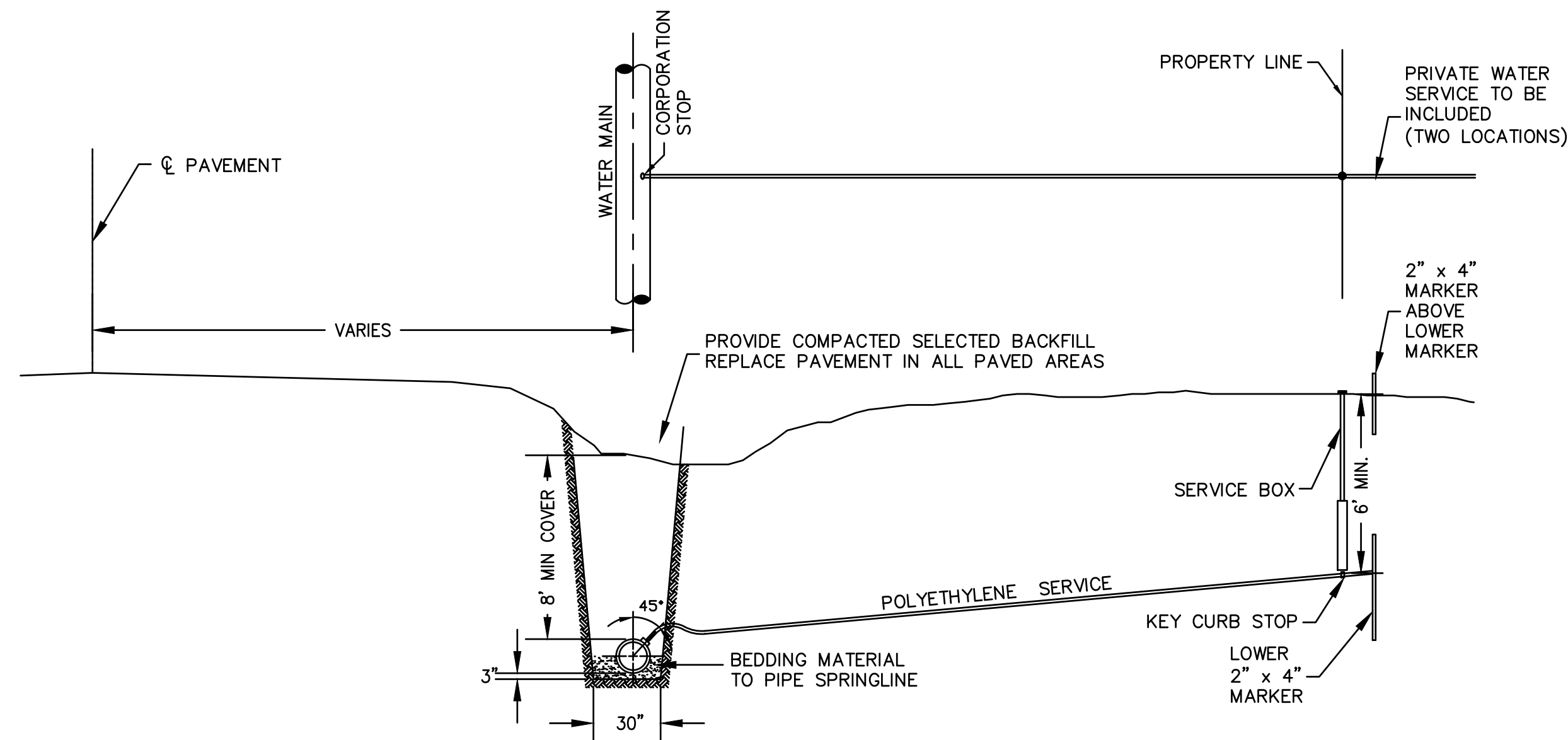
INLET PROTECTION, TYPE C
(WITH CURB BOX)

- INSTALLATION NOTES**
- TYPE B & C**
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
- TYPE D**
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

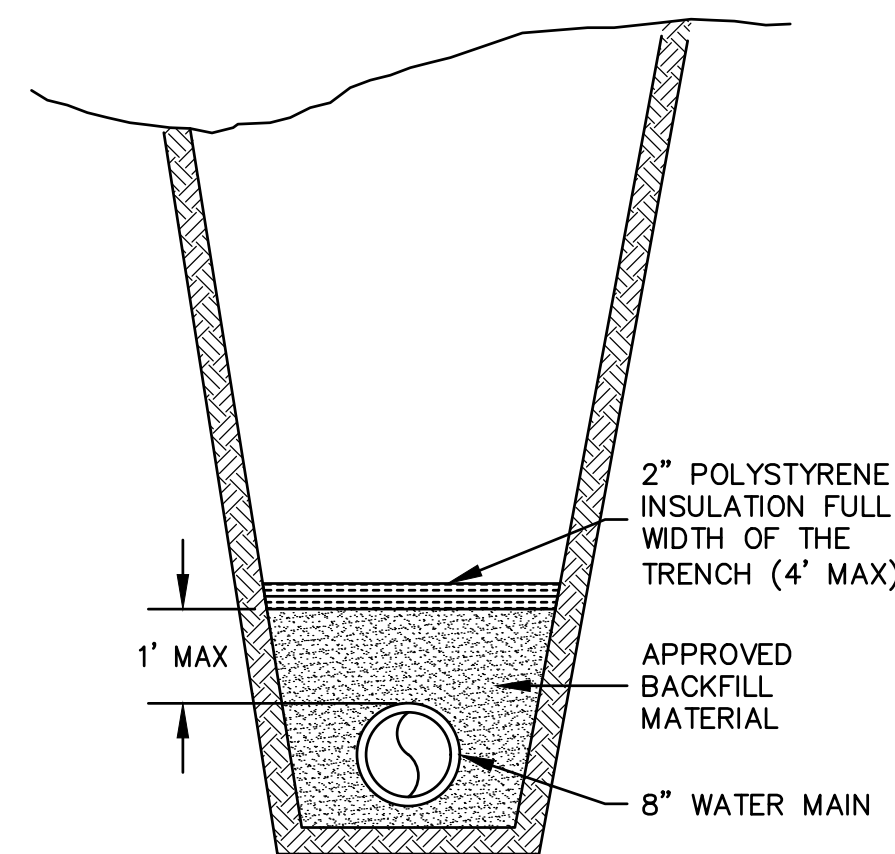


INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

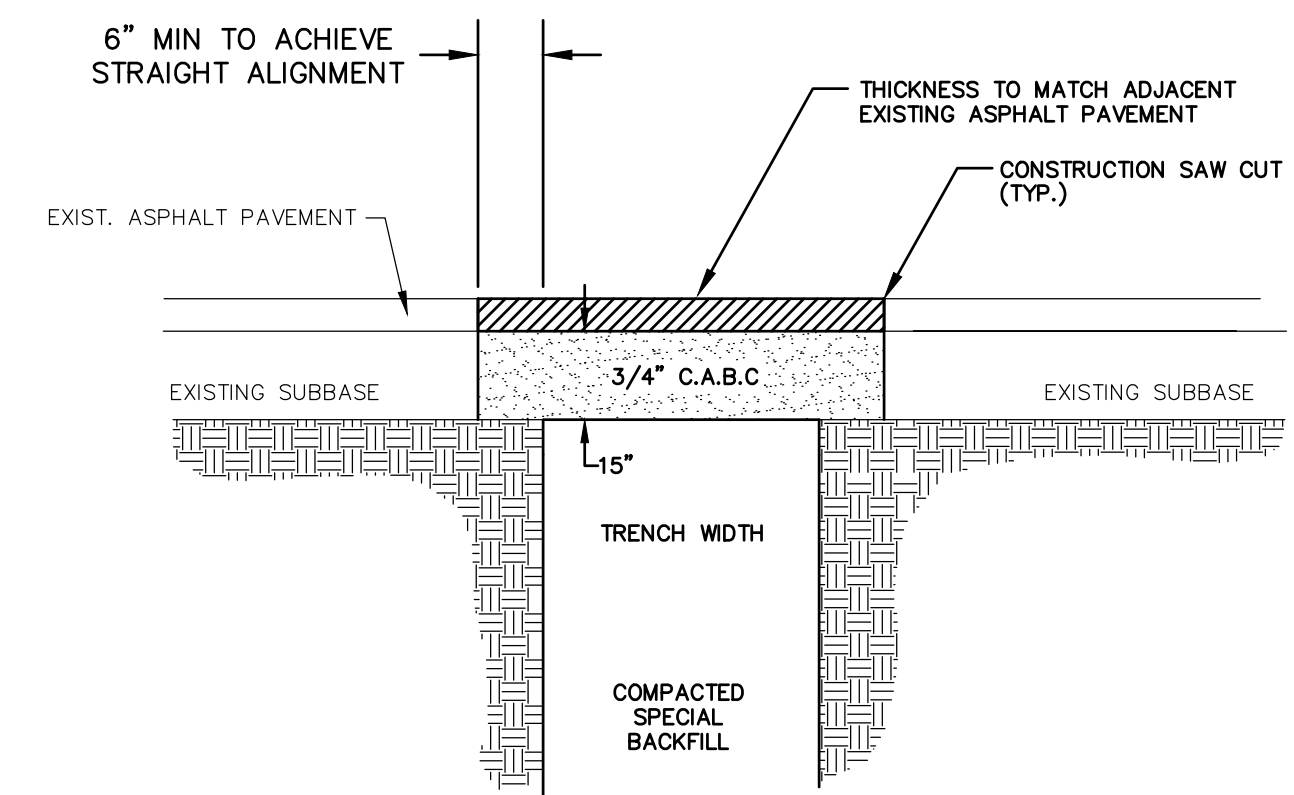
This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 10-2.



TYPICAL WATER CONNECTION



WATER MAIN INSULATION

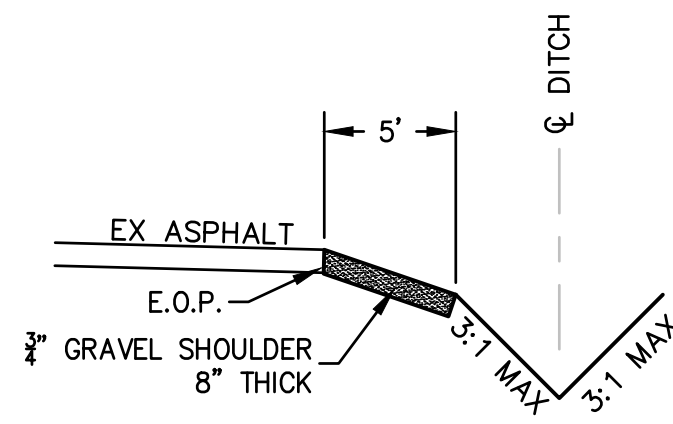


ASPHALTIC PAVEMENT RESTORATION
FOR UTILITY TRENCHES IN ROADWAY/PAVEMENT

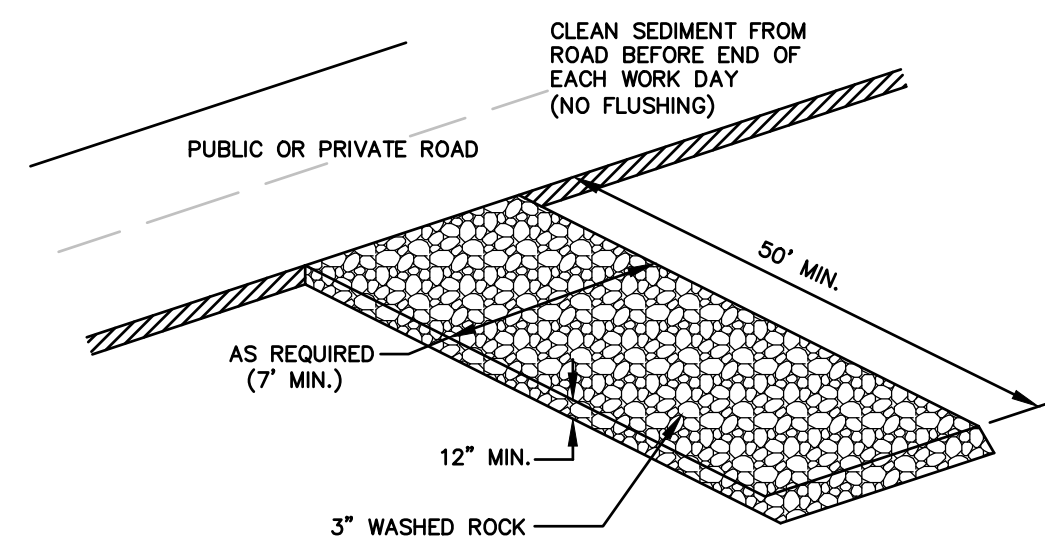
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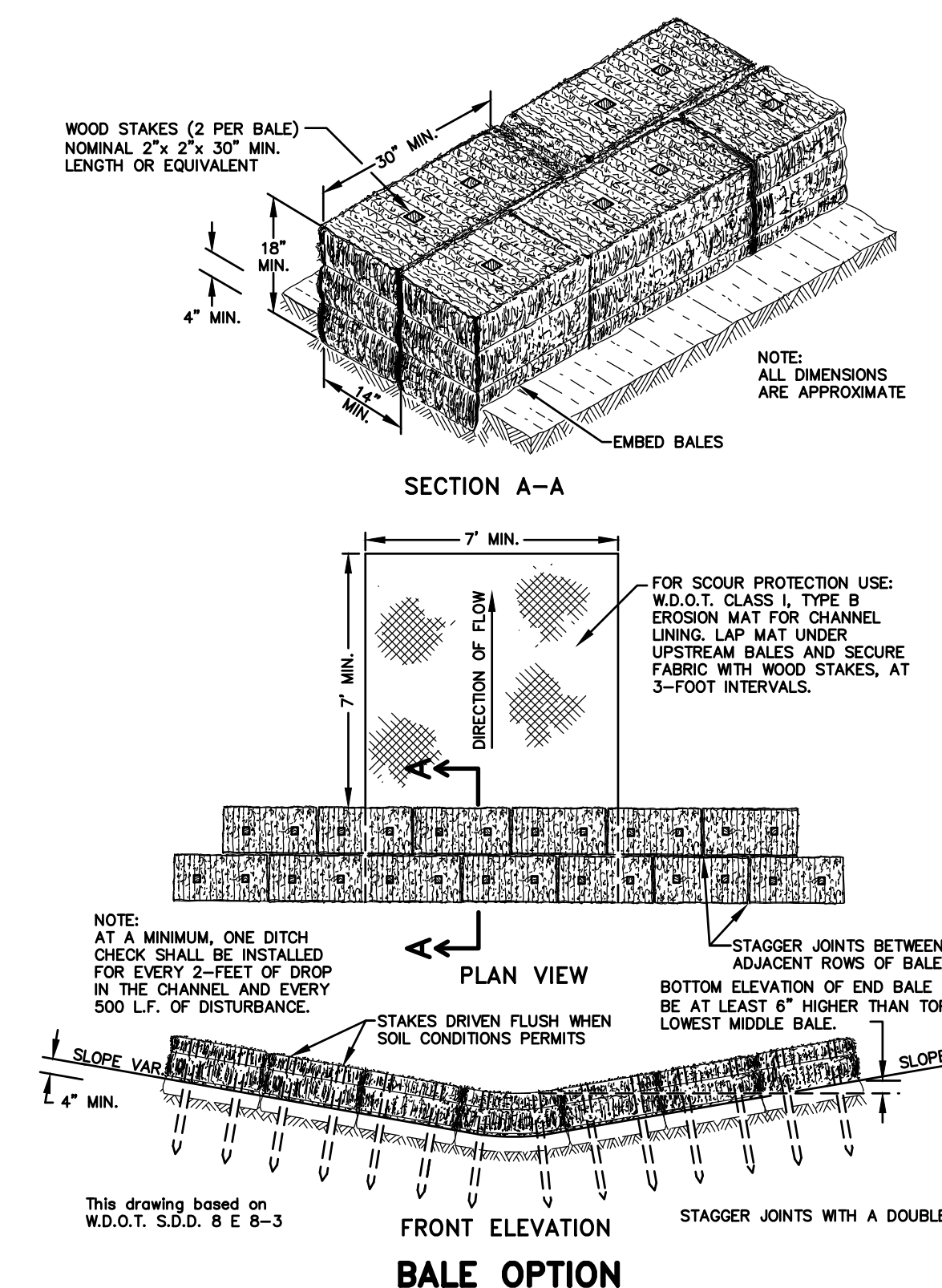
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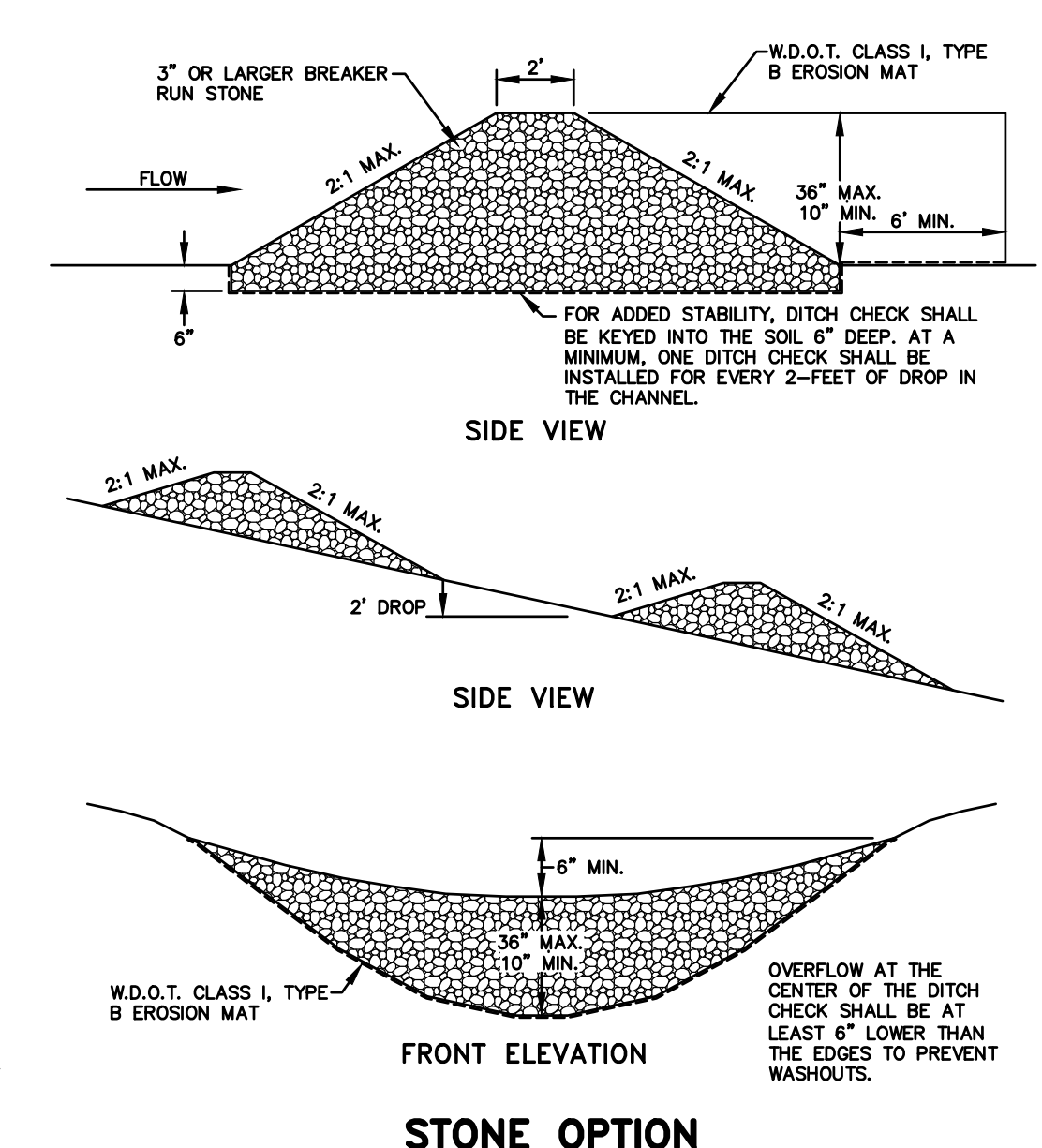
GRAVEL SHOULDER RESTORATION



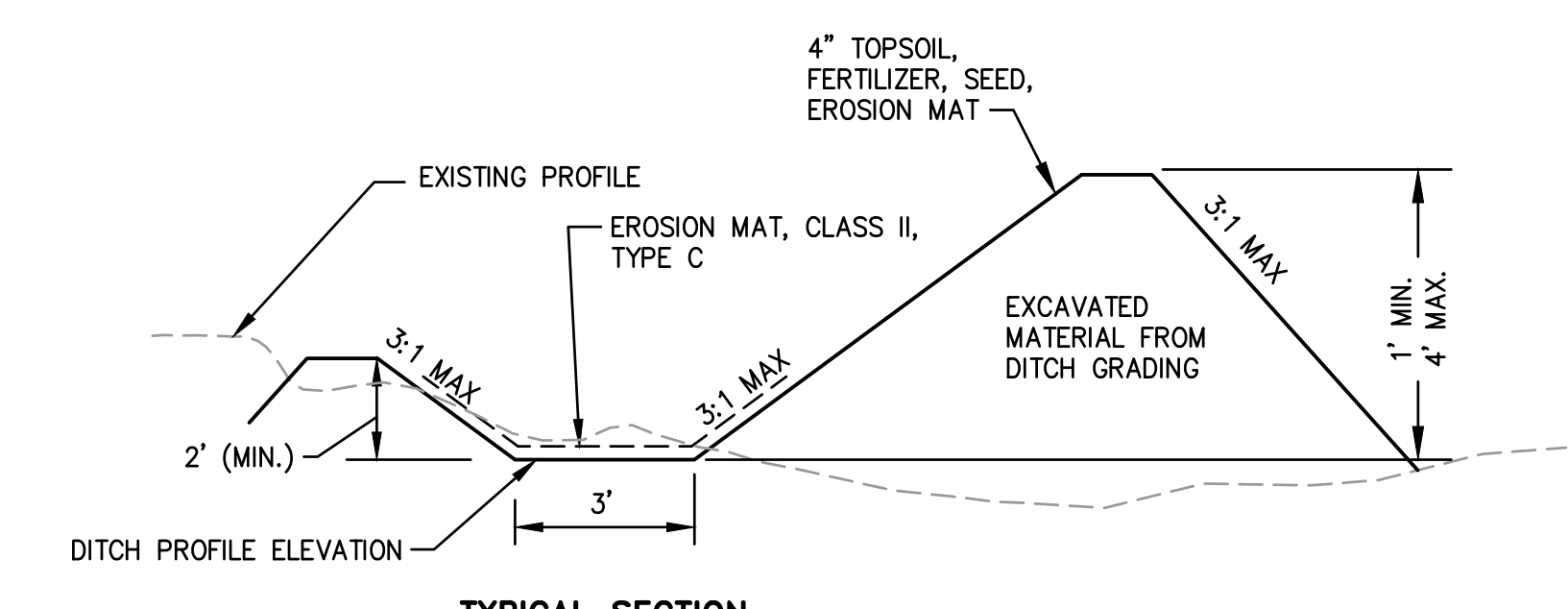
CONSTRUCTION ENTRANCE/EXIT DETAIL



BALE OPTION

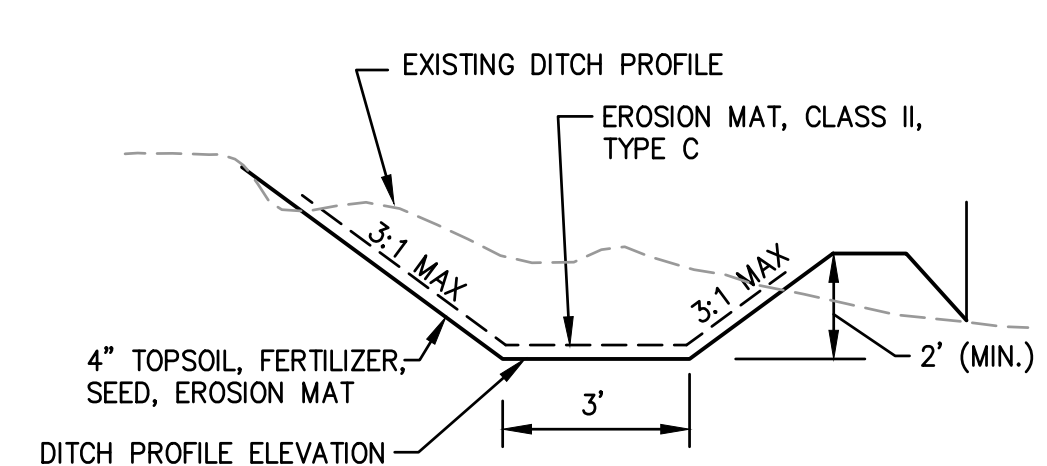


STONE OPTION



DITCH W/ BERM CONSTRUCTION DETAIL

DITCH CHECK DETAIL



DITCH CONSTRUCTION DETAIL

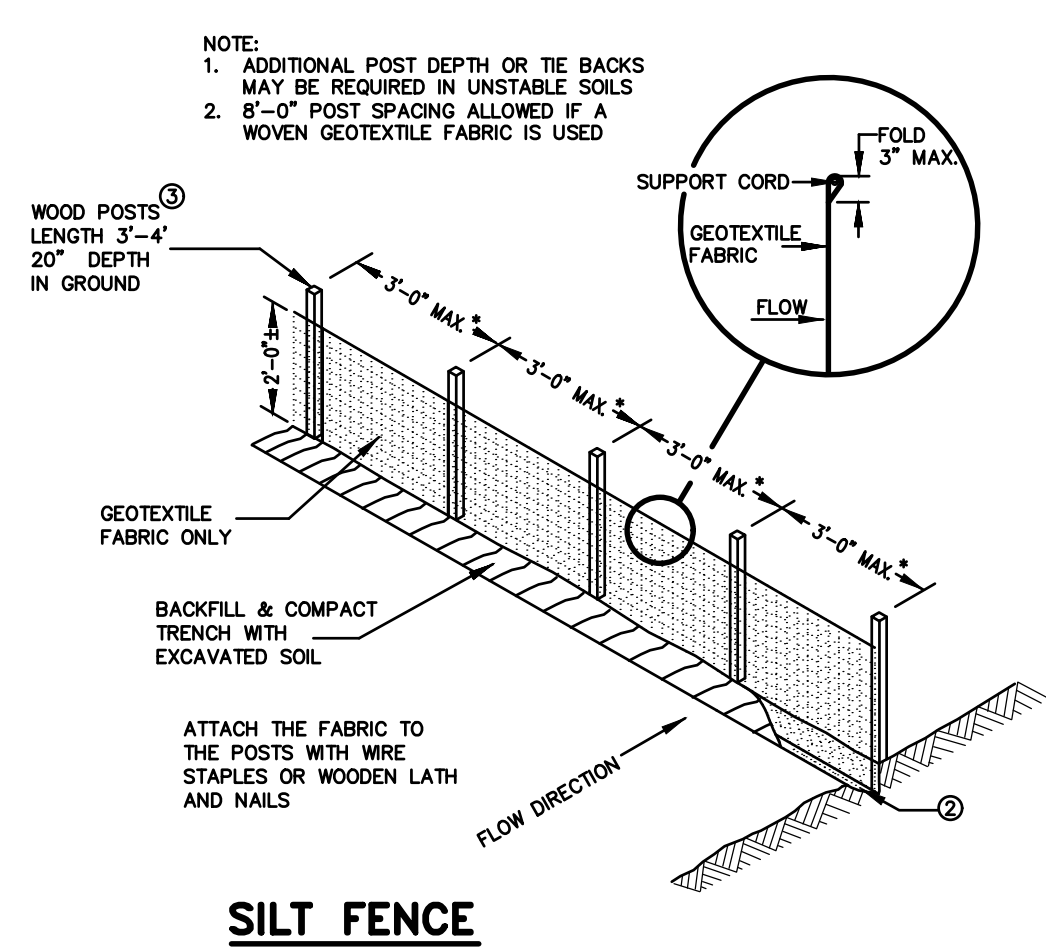
TEMPORARY STABILIZATION:

TEMPORARY STABILIZATION	APPLICATION RATE	CRITERIA
POLYACRYLAMIDE	*	*TECHNICAL STANDARD 1050.
MULCHING (straw or hay only)		
SEEDED AREA	1½ TO 2-TON/ACRE	USE CRIMPING, NETTING, OR TACKIFIER TO ANCHOR. CONSIDER EROSION MAT.
UNSEEDED	2 TO 3 TON/ACRE	
SEEDING (select one species)		
OATS	131 LBS/ACRE	98% PURITY. SPRING/SUMMER SEEDING
WINTER WHEAT	131 LBS/ACRE	95% PURITY. FALL SEEDING
ANNUAL RYE	80 LBS/ACRE	97% PURITY. FALL SEEDING

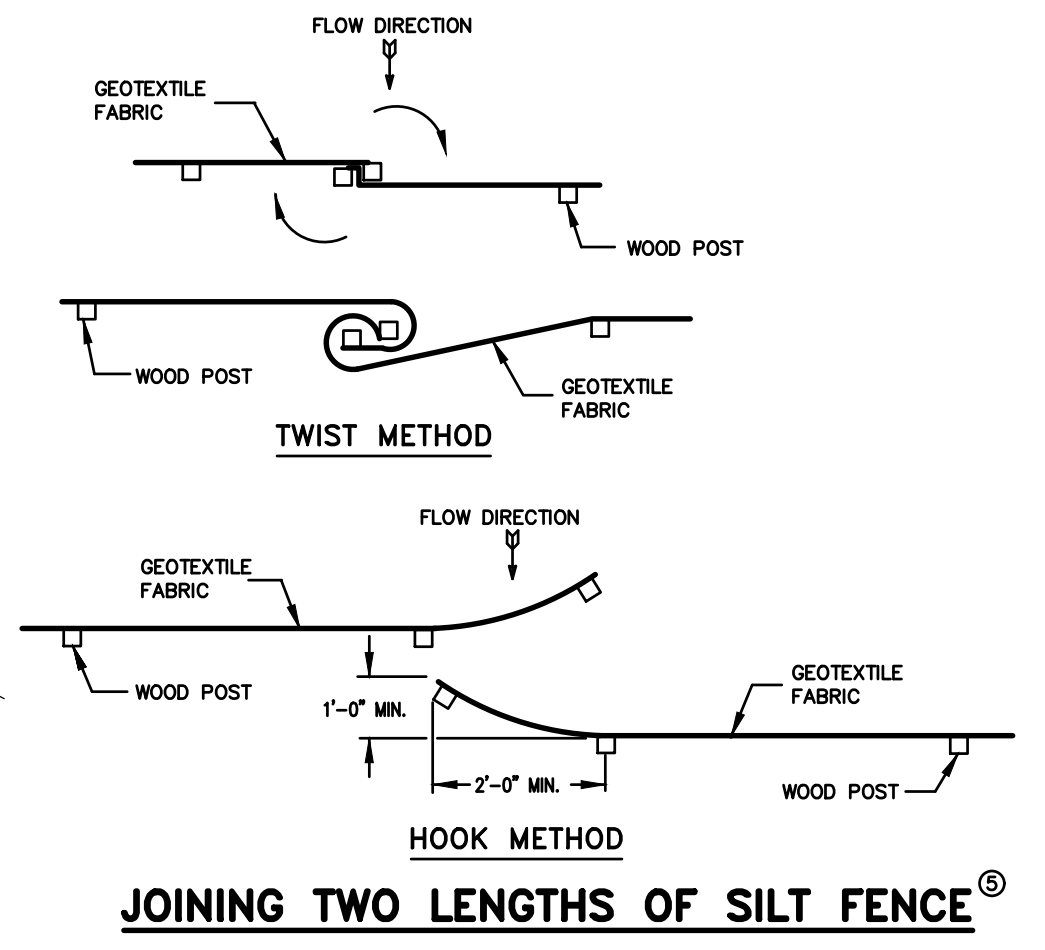
GENERAL GRASS:

THE SELECTION OF THE SEED MIXTURES OR MIXTURES FOR USE OF THE PROJECT SHALL BE IN ACCORDANCE WITH THE FOLLOWING PERMANENT SEED MIXTURES:

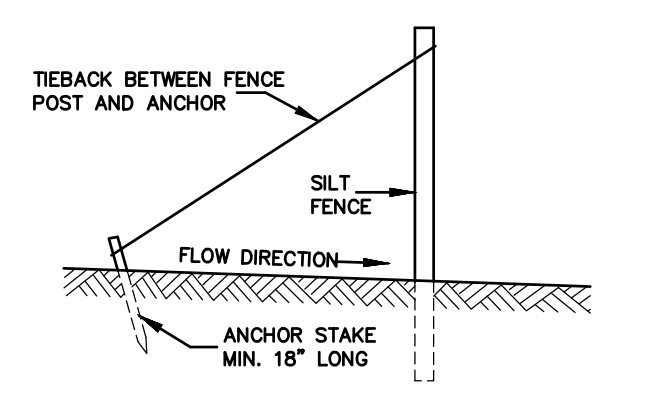
- SEED MIXTURE #1 SHALL BE USED ON PROJECTS WHERE AVERAGE LOAM, HEAVY CLAY OR MOIST SOILS PREDOMINATE.
- SEED MIXTURE #2 SHALL BE USED ON PROJECTS WHERE LIGHT, DRY, SANDY OR GRAVEL SOILS PREDOMINATE.
- SEED MIXTURE #1 OR #2 SHALL BE USED ON ALL DITCHES, IN-SLOPES, MEDIAN AREAS AND LOW FILLS.
- SEED MIXTURE #3 SHALL BE USED ONLY ON RURAL AREAS AND SHALL BE USED FOR ALL HIGH CUT AND FILL SLOPES, GENERALLY EXCEEDING 6 TO 8 FEET.
- SEED MIXTURE #4 SHALL BE USED IN URBAN OR OTHER AREAS WHERE A LAWN TYPE TURF IS DESIRED.
- SEED MIXTURE #2 OR #3 IS SUITABLE ON VERY STEEP SLOPES WHERE STERILE SOIL AND EROSION CONDITIONS EXIST WHEN USED IN CONJUNCTION WITH EROSION CONTROL MAT IF SPECIFIED BY THE ENGINEER.



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE

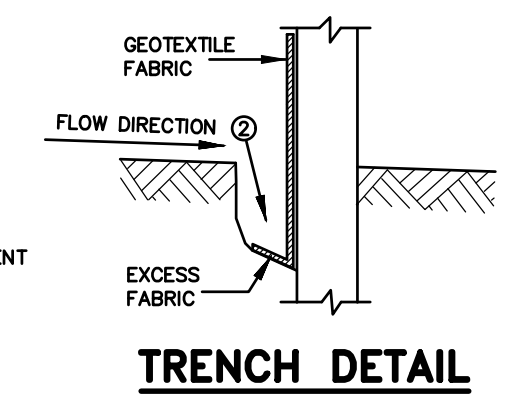


SILT FENCE TIE BACK (WHEN ADDITIONAL SUPPORT REQUIRED)

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6.

GENERAL NOTES

- HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1" X 1" OF OAK OR HICKORY.
- SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL

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