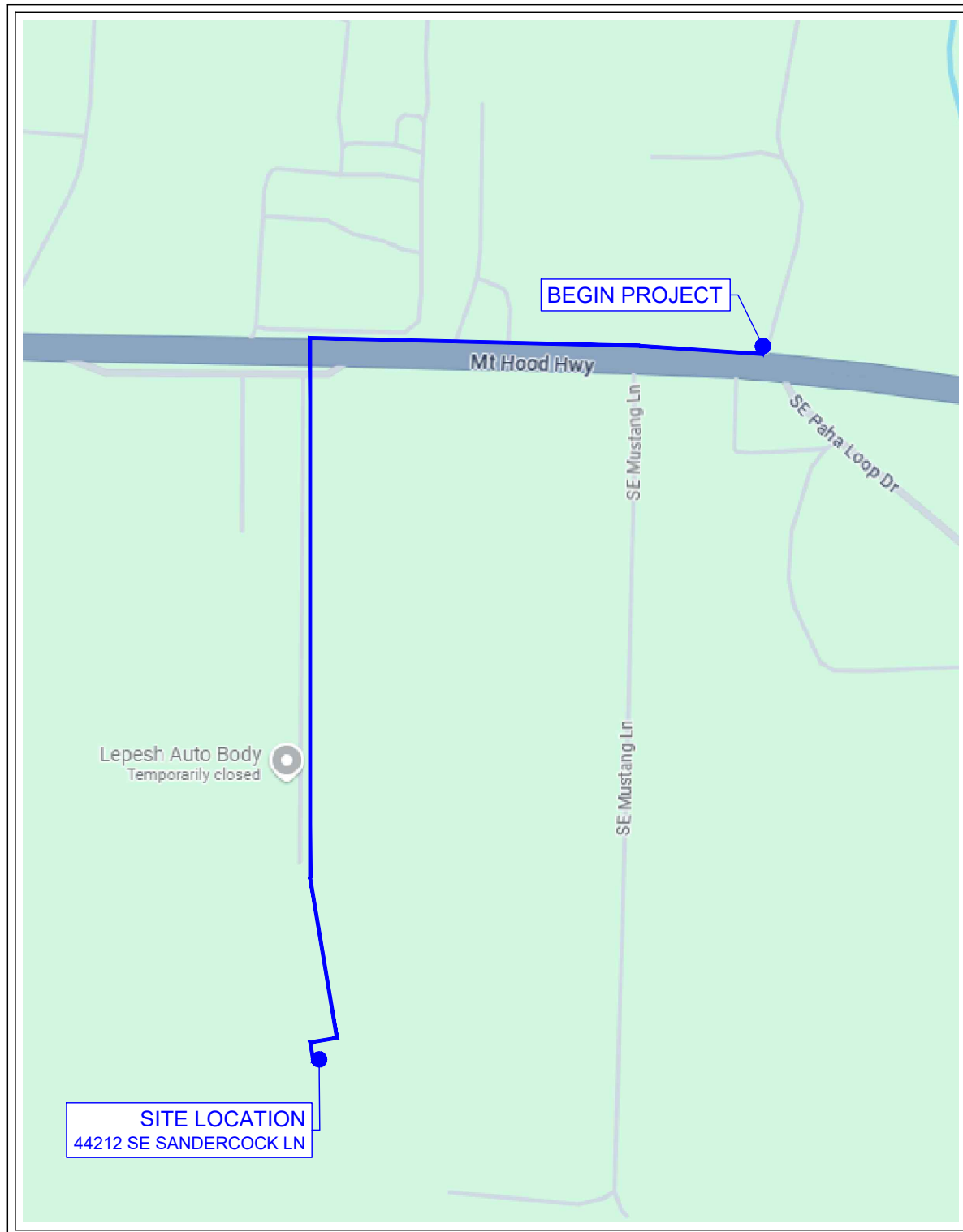


SANDERCOCK

44212 SE SANDERCOCK LN

SANDY, OR 97055



OWNER / APPLICANT

CITY OF SANDY
 39250 PIONEER BLVD
 SANDY, OR 97055
 CONTACT: GREG BREWSTER
 MOBILE: (503) 668-2923
 E-MAIL: GBREWSTER@CI.SANDY.OR.US

DESIGN BY

K&B TECHNICAL SOLUTIONS
 P.O. BOX 2529
 CLACKAMAS, OR 97015
 CONTACT: ERIC ENGLUND
 OFFICE: (503) 650-6041 X208
 MOBILE: (503) 329-0793
 EMAIL: ERIC_ENGLUND@KBMAIL.NET

PROJECT FOOTAGES & MATERIALS

AERIAL:	
OVERLASH	10 FT.
UNDERGROUND:	
(1)-2" PVC RISER	24 FT.
TRENCH (1)-2" PVC/HDPE CONDUIT	29 FT.
DIRECTIONAL DRILL (1)-2" PVC/HDPE CONDUIT	3,745 FT.
24"X36"X24" VAULT	5 EA.
PULL THROUGH NEW	3,798 FT.
BUILDING:	
PL NEW BARE 48F CABLE	2 FT.
CORE DRILL	1 EA.
FIBER:	
48F CABLE	4,060 FT.
48F STORAGE AERIAL	200 FT.
48F STORAGE UNDERGROUND	500 FT.
48F STORAGE BUILDING	25 FT.

SHEET INDEX

SHT	DESCRIPTION
1.0	COVER SHEET/VICINITY MAP
1.1	LEGEND
2.0 - 2.1	CABLE PLAN
3.0 - 3.8	CONDUIT PLAN
4.0	SITE DETAIL
5.0	SITE PHOTOGRAPHS

PERMITS

JOINT USE:	PGE 1 POLE
(2)-ODOT:	RIGHT-OF-WAY; TRAFFIC CONTROL



**WORK CLOSELY WITH CITY OF SANDY
 PUBLIC WORKS TO AVOID BORE/TRENCH
 CONFLICTS AND MAINTAIN DISTANCE
 FROM EXISTING WATER MAINS**

CALL 811 BEFORE YOU DIG

ATTENTION:
 OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED
 BY THE OREGON UTILITY NOTIFICATION CENTER.
 THOSE RULES ARE SET FORTH IN OAR 952-001-0010
 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF
 THE RULES BY CALLING THE OREGON UTILITY
 NOTIFICATION CENTER ADMINISTRATION @ (503-232-1987)



TO REQUEST UTILITY LOCATES CALL THE OREGON
 UTILITY NOTIFICATION CENTER, 811 AT LEAST
 2 BUSINESS DAYS PRIOR TO EXCAVATION.

**Know what's below.
 Call before you dig.**

SANDERCOCK
 44212 SE SANDERCOCK LN
 SANDY, OR 97055
 COVER SHEET / VICINITY MAP

DESIGN BY K & B TECHNICAL SOLUTIONS		DESIGN DRAWN	
DATE	DESCRIPTION	E.E.	R.P.M.
12/23/25 <td>ORIGINAL ISSUE <td></td> <td></td> </td>	ORIGINAL ISSUE <td></td> <td></td>		
01/21/25 <td>ADDITIONAL NOTES/MINOR CHANGES <td></td> <td></td> </td>	ADDITIONAL NOTES/MINOR CHANGES <td></td> <td></td>		



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SHEET

1.0

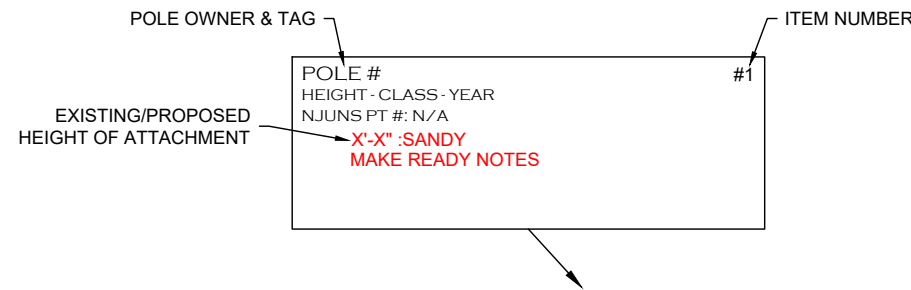
PROJECT ID
 SN-49239

LINETYPES

EXISTING STRAND	
PROPOSED STRAND	
EXISTING FIBER	
PROPOSED FIBER	
FIBER EXTENSION	
EXISTING CONDUIT	
PROPOSED CONDUIT/EMT	
EXISTING FLEX DUCT	
PROPOSED FLEX DUCT	
RIGHT-OF-WAY	
PUBLIC UTILITY EASEMENT	
EASEMENT	
PROPERTY	
CENTERLINE	
FACE OF CURB	
EDGE OF PAVEMENT	
EDGE OF CONCRETE	
EDGE OF GRAVEL	
EDGE OF SIDEWALK	
EDGE OF DRIVEWAY	
EXCAVATION LIMITS	
SEWER	
STORM	
WATER	
GAS	
POWER	
TELEPHONE	
FIBER OPTIC	
CATV	
TRAFFIC SIGNAL	
STREET LIGHT	
IRRIGATION	
UNKNOWN UTILITY	
FENCELINE	
GUARD RAIL	
TRACKS	
BUILDING FOOTPRINT	

SYMBOLS

UTILITY POLE		EXISTING SPLICE		VAULT	
EXISTING RISER		PROPOSED SPLICE		PEDESTAL	
PROPOSED RISER		EXISTING AERIAL STORAGE		MANHOLE	
EXISTING VAULT		PROPOSED AERIAL STORAGE		INLET	
PROPOSED VAULT		EXISTING VAULT/INTERIOR STORAGE		HYDRANT	
EXISTING ANCHOR & DOWNGUY		PROPOSED VAULT/INTERIOR STORAGE		METER	
PROPOSED ANCHOR & DOWNGUY				VALVE	
PROPOSED GUY TO EXISTING ANCHOR				POWER TRANSFORMER	
EXISTING S/W ANCHOR & DOWNGUY				STREET LIGHT	
PROPOSED S/W ANCHOR & DOWNGUY				TRAFFIC SIGNAL POLE	
PROPOSED GUY TO EXISTING S/W ANCHOR				SIGNAL CONTROLLER	
POLE-TO-POLE GUY				CROSS WALK SIGNAL	
WRECKOUT SPAN				RAILROAD SIGNAL	
EXISTING MIDSPAN CLAMP				TREE	
PROPOSED MIDSPAN CLAMP				CULVERT	



ABBREVIATIONS

N	NORTH	N/O	NORTH OF	AB	ABANDONED	PDRP	POWER SERVICE DROP
S	SOUTH	S/O	SOUTH OF	ANC	ANCHOR	PG	POLE/GROUNDING
E	EAST	E/O	EAST OF	BD	BUILDING	PH	POLE/HORIZONTAL CLEARANCE
W	WEST	W/O	WEST OF	BH	BUILDING/HORIZONTAL CLEARANCE	PL	POLE/LEANING
				BR	BRIDGE	PR	POLE/RISER
NE	NORTH EAST	A/F	ACROSS FROM	BV	BUILDING/VERTICAL CLEARANCE	PRI	POWER PRIMARY
SE	SOUTH EAST	C/O	CORNER OF	COFO	COMMUNICATION FIBER OPTIC	PS	POLE/STRUCTURE
NW	NORTH WEST	F/S	FIELD SIDE	COMD	COMMUNICATION DROP	P/S	PLANTER STRIP
SW	SOUTH WEST	R/O	REAR OF	COML	COMMUNICATION MAINLINE	PSSW	POWER SERVICE SUPPORT WIRE
		R/S	ROAD SIDE	COMM	COMMUNICATION MESSENGER	PV	POLE/VERTICAL CLEARANCE
N/S	NORTH SIDE			DB	DAMAGED/BROKEN	PWR	POWER
S/S	SOUTH SIDE			DG	DOWNGUY	ROW	RIGHT-OF-WAY
E/S	EAST SIDE			D/W	DRIVEWAY	RR	RAILROAD
W/S	WEST SIDE			GM	GUY MARKER	SEC	POWER SECONDARY
				GRND	GROUND ROD	SLT	POWER STREET LIGHT
				GRWR	GROUND WIRE	SOB	STAND OFF BRACKETS
				LW	LOOSE WIRE	S/W	SIDEWALK
				MH	MID-SPAN/HORIZONTAL CLEARANCE	TBH	THROUGH-BOLT HOLE
				MS	MISSING	UG	UNDERGROUND
				MV	MID-SPAN/VERTICAL CLEARANCE	VGR	VERTICAL GROUND ROD
				NB	NEW BUILD	WH	WEATHER HEAD
				NEUT	POWER NEUTRAL	XARB	CROSS-ARM BRACES
				OGUY	OVERHEAD GUY	XARF	CROSS-ARM (FIBERGLASS)
				OL	OUT OF LEAD	XARM	CROSS-ARM
				PC	POLE/CLIMBING/WORKING SPACE	XFMR	POWER TRANSFORMER
				PDLP	POWER DRIP-LOOP		

SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
LEGEND

DESIGN BY K & B TECHNICAL SOLUTIONS		DESIGN/DRAWN	E.E.	R.P.M.	E.E.	R.P.M.
DATE	DESCRIPTION	ORIGINAL ISSUE	ADDITIONAL NOTES/MINOR CHANGES			
12/23/25						
01/21/25						



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SHEET

1.1

PROJECT ID
SN-49239

48F IN:
OUT:

48F IN:
OUT:

48F TAIL:
OUT:

48F IN:
OUT:

SEE SHEET 3.0 FOR
UNDERGROUND DETAIL

POLE #351
50' - CLASS 1 - 1971
NJUNS PT #: N/A
24'-3" : SANDY
NB - CBX; PLACE NEW RISER AND SOBS (WNW).
PC - CBX FIBER BOXING IN POLE (S), UNABLE
TO MOVE COFO-SS. // WBB: PLACE 24" XARF.

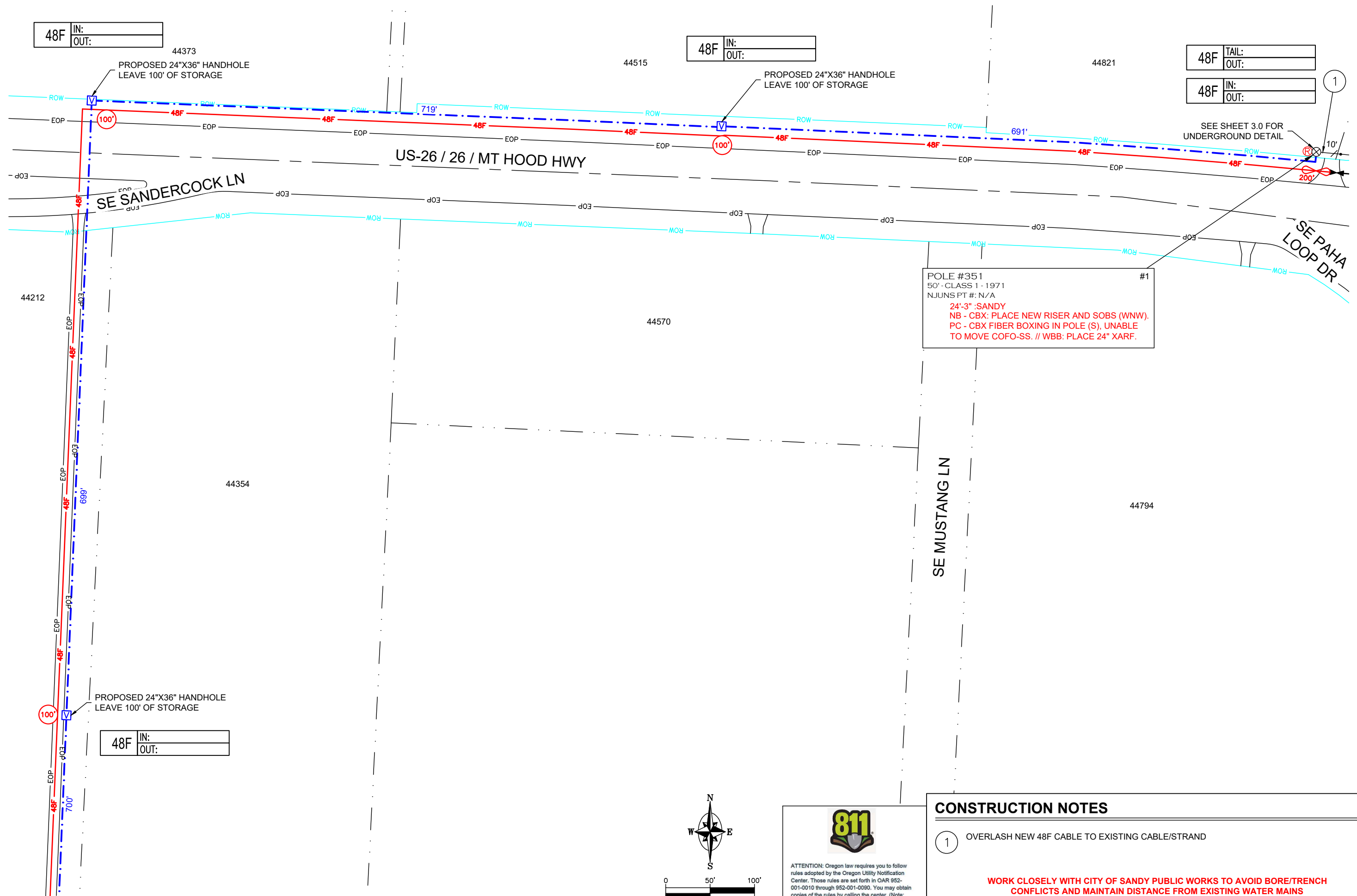
SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
CABLE PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS		DESIGN/DRAWN	E.E.	R.P.M.	E.E.	R.P.M.
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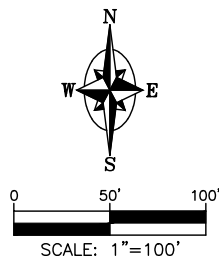
K&B
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SHEET
2.0
PROJECT ID
SN-49239



MATCH SHEET 2.1



811

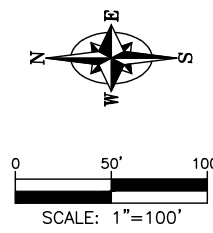
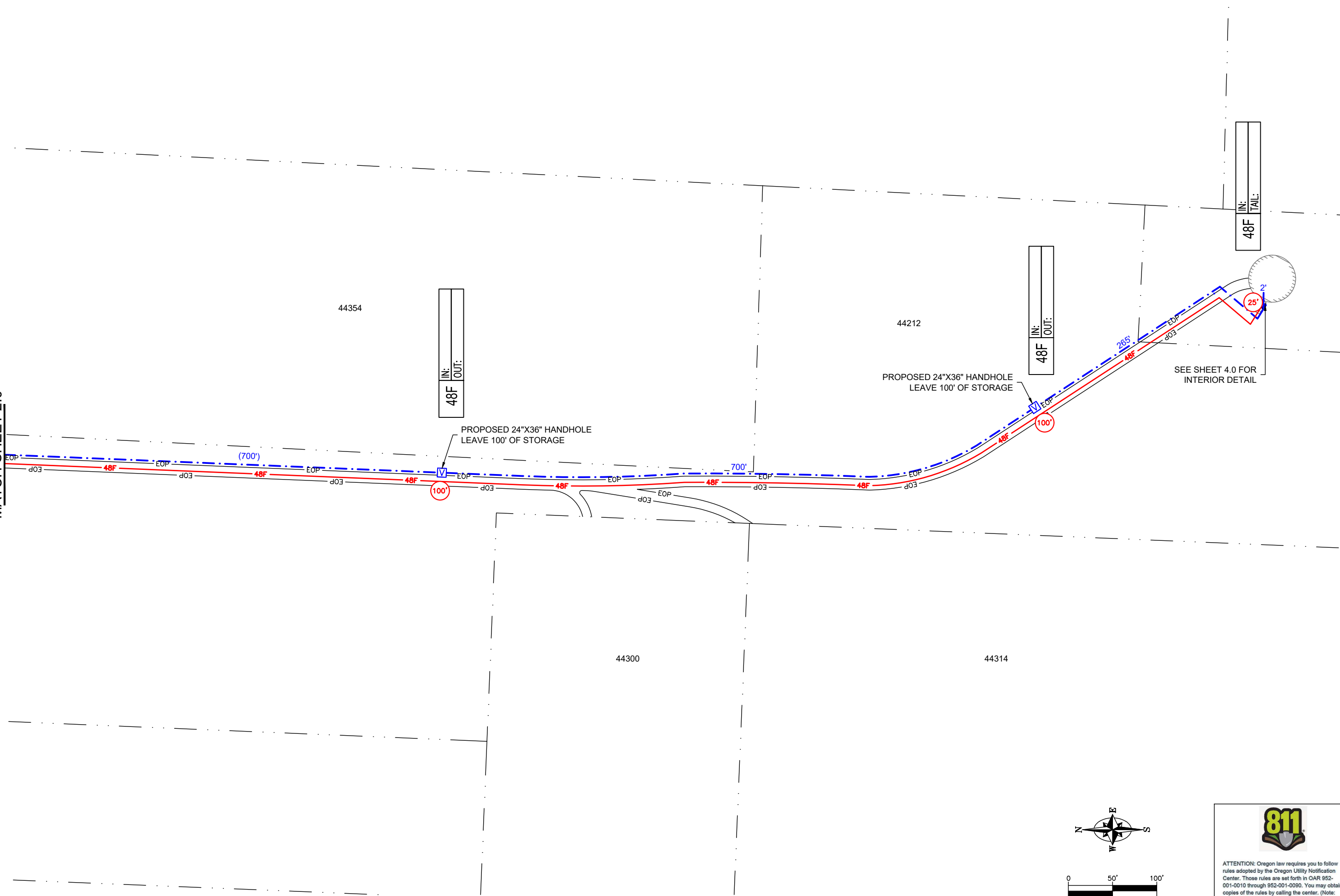
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CONSTRUCTION NOTES

① OVERLASH NEW 48F CABLE TO EXISTING CABLE/STRAND

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS

MATCH SHEET 2.0




ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through 952-001-0080. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987 or 811).

SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
CABLE PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGN/DRAWN	E.E. R.P.M.
12/23/25	ORIGINAL ISSUE		
01/21/26	ADDITIONAL NOTES/MINOR CHANGES		

K & B
TECHNICAL SOLUTIONS
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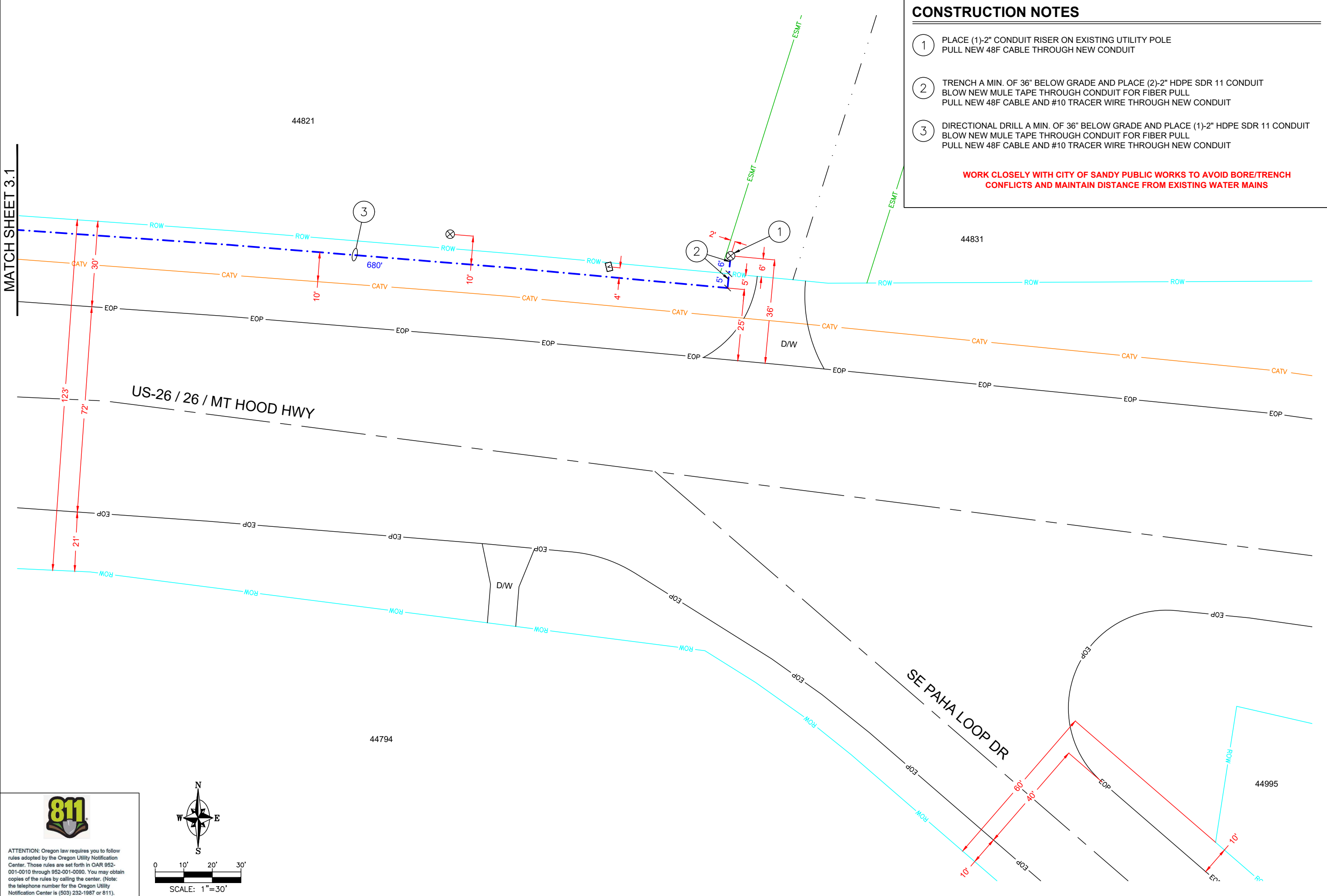
SHEET
2.1
PROJECT ID
SN-49239

MATCH SHEET 3.1

CONSTRUCTION NOTES

- PLACE (1)-2" CONDUIT RISER ON EXISTING UTILITY POLE
PULL NEW 48F CABLE THROUGH NEW CONDUIT
- TRENCH A MIN. OF 36" BELOW GRADE AND PLACE (2)-2" HDPE SDR 11 CONDUIT
BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL
PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT
- DIRECTIONAL DRILL A MIN. OF 36" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT
BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL
PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS



SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
CONDUIT PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS		DESIGN/DRAWN	E.E.	R.P.M.
DATE	DESCRIPTION	ORIGINAL ISSUE	E.E.	R.P.M.
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01/21/25		ADDITIONAL NOTES/MINOR CHANGES	E.E.	R.P.M.

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SHEET
3.0
PROJECT ID
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811
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SCALE: 1" = 30'

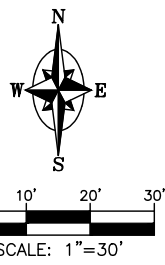
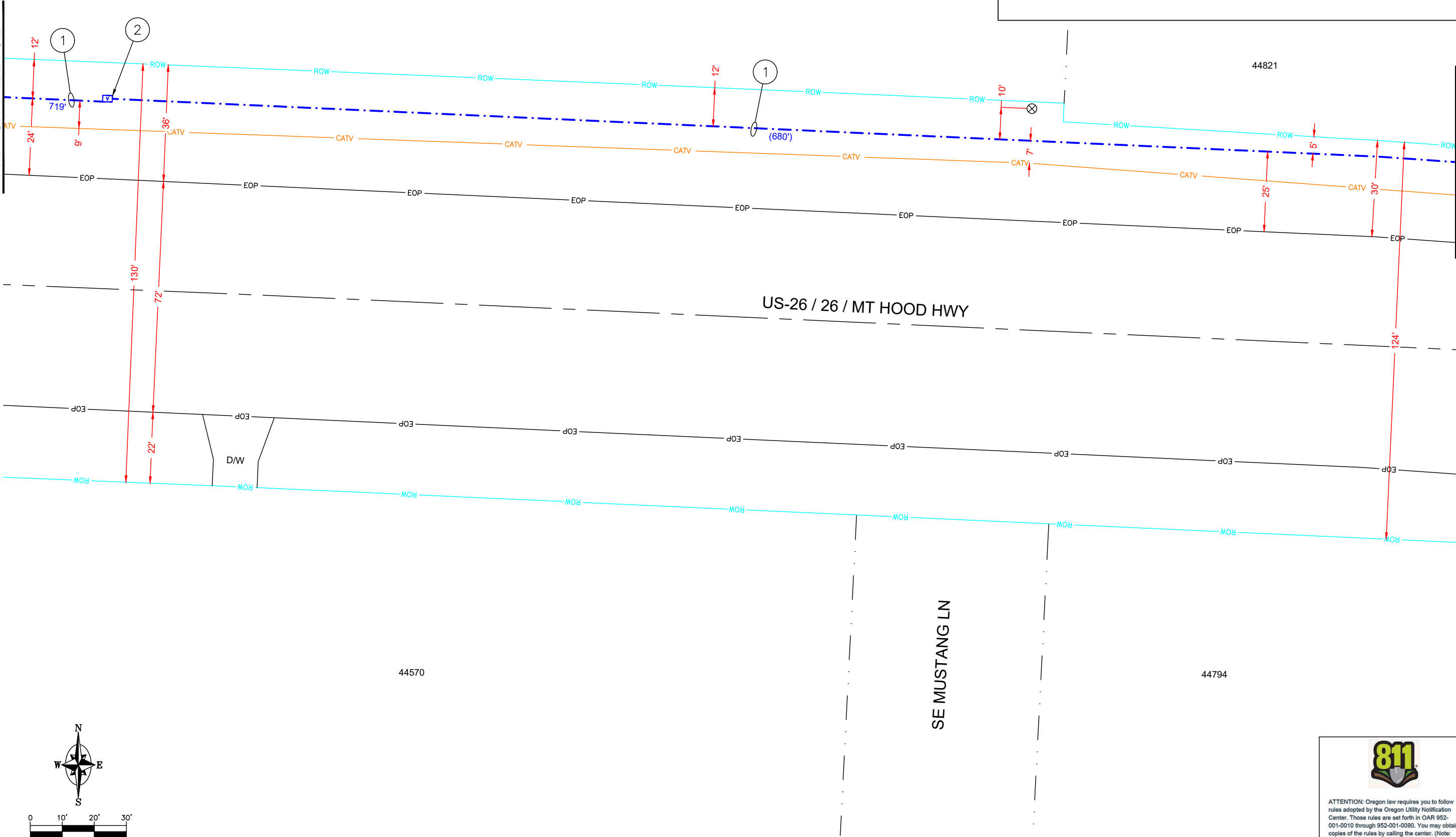
CONSTRUCTION NOTES

- ① DIRECTIONAL DRILL A MIN. OF 36" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT
- ② PL NEW 24X36X24 HANDHOLE TERMINATE NEW CONDUIT IN HANDHOLE

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS

MATCH SHEET 3.2

MATCH SHEET 3.0



811
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DESIGN BY K & B TECHNICAL SOLUTIONS

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SHEET
3.1
 PROJECT ID
 SN-49239

SANDERCOCK
 44212 SE SANDERCOCK LN
 SANDY, OR 97055
 CONDUIT PLAN

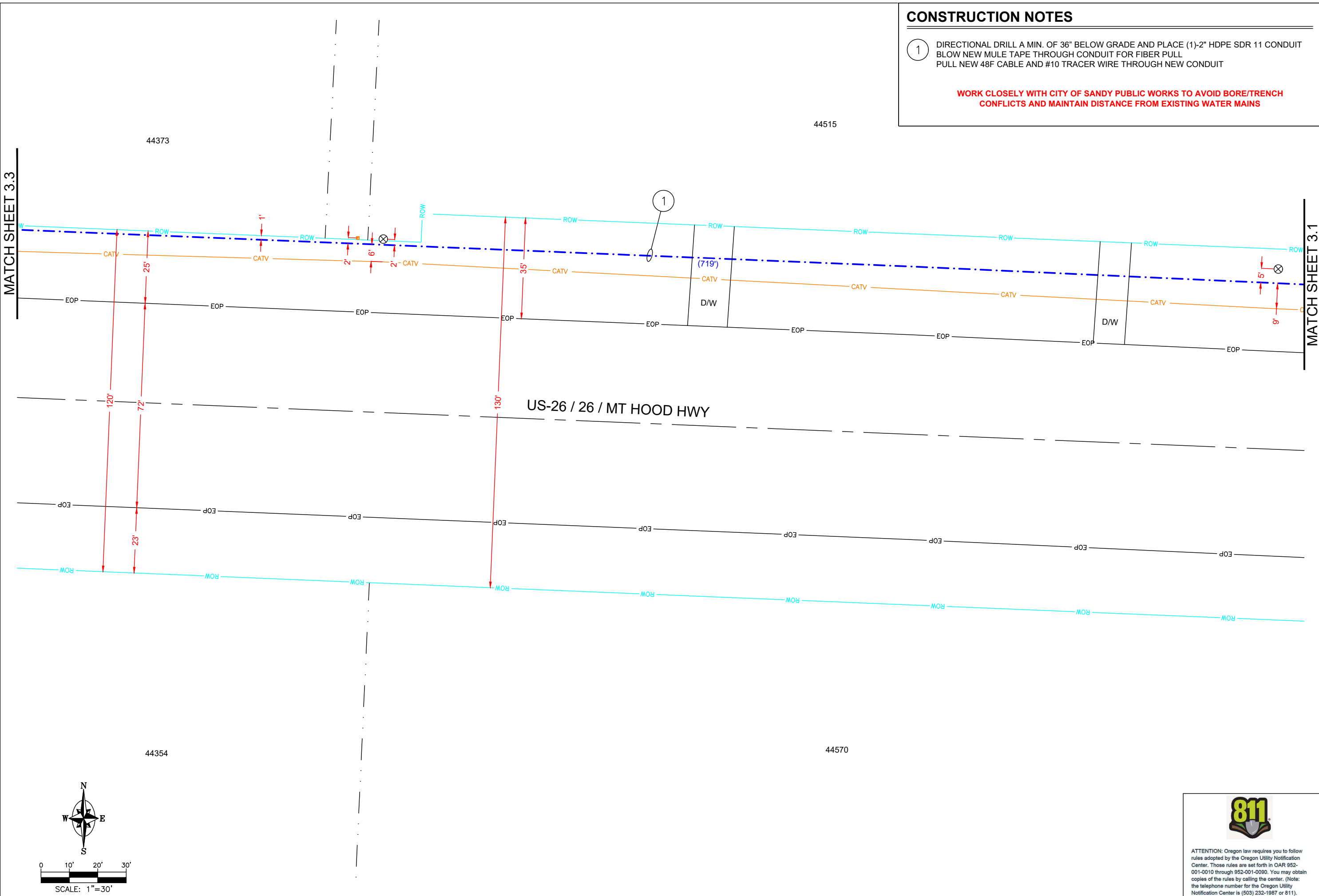
MATCH SHEET 3.3

MATCH SHEET 3.1

CONSTRUCTION NOTES

1 DIRECTIONAL DRILL A MIN. OF 36" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS



SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
CONDUIT PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS	
DATE	DESCRIPTION
12/23/25 <td>ORIGINAL ISSUE </td>	ORIGINAL ISSUE
01/21/26 <td>ADDITIONAL NOTES/MINOR CHANGES </td>	ADDITIONAL NOTES/MINOR CHANGES



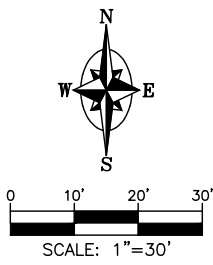
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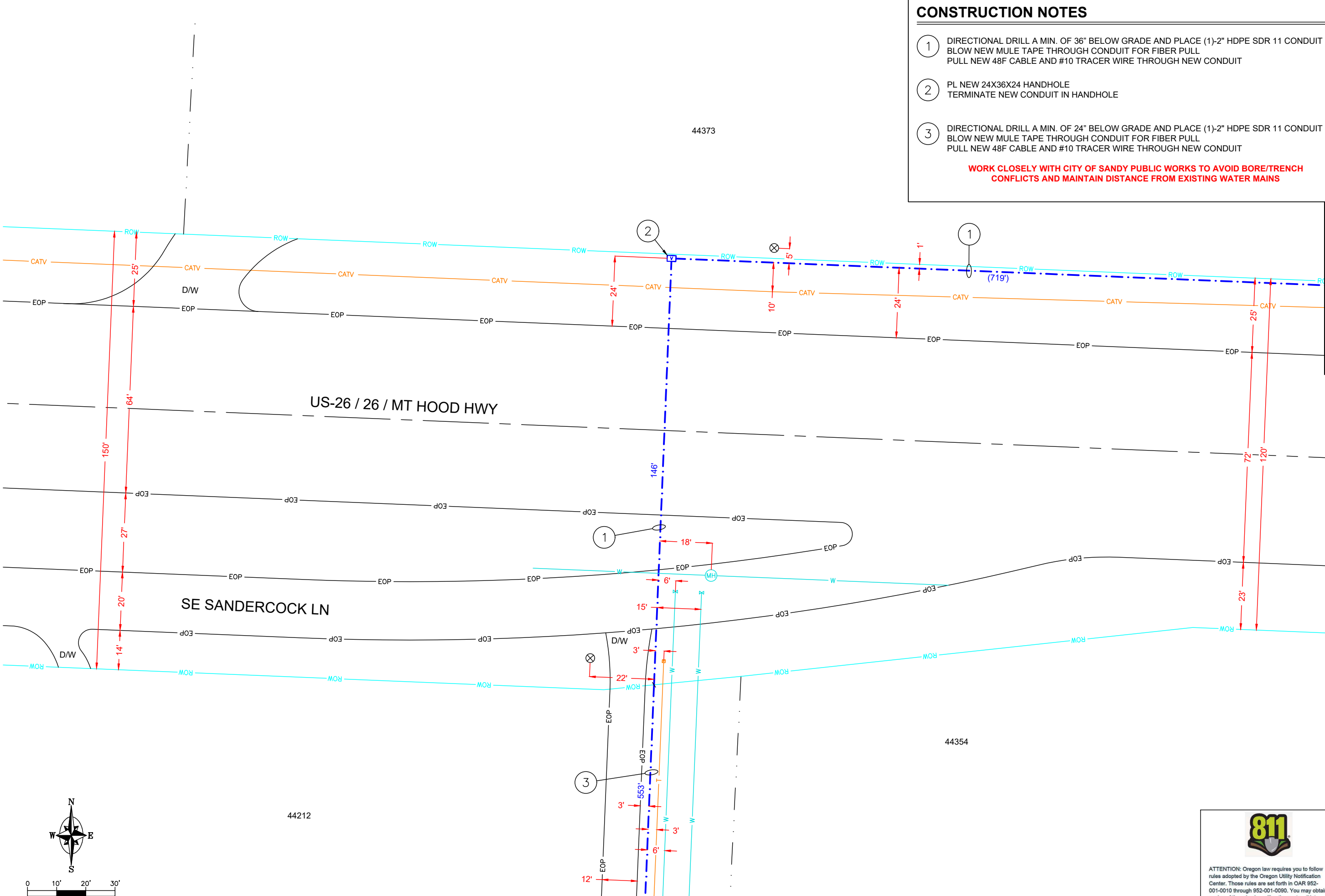
SHEET
3.2
PROJECT ID
SN-49239



CONSTRUCTION NOTES

- ① DIRECTIONAL DRILL A MIN. OF 36" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT
- ② PL NEW 24X36X24 HANDHOLE TERMINATE NEW CONDUIT IN HANDHOLE
- ③ DIRECTIONAL DRILL A MIN. OF 24" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS



MATCH SHEET 3.2

DESIGN BY K & B TECHNICAL SOLUTIONS

DATE	DESCRIPTION	DESIGN DRAWN	E.E.	R.P.M.
12/23/25	ORIGINAL ISSUE			
01/21/26	ADDITIONAL NOTES/MINOR CHANGES			



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SHEET
3.3

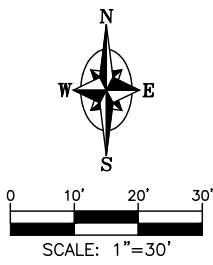
PROJECT ID
SN-49239

MATCH SHEET 3.4

44373

44354

44212



CONSTRUCTION NOTES

- 1 DIRECTIONAL DRILL A MIN. OF 24" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS

SANDERCOCK
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SANDY, OR 97055
CONDUIT PLAN

MATCH SHEET 3.3

MATCH SHEET 3.5

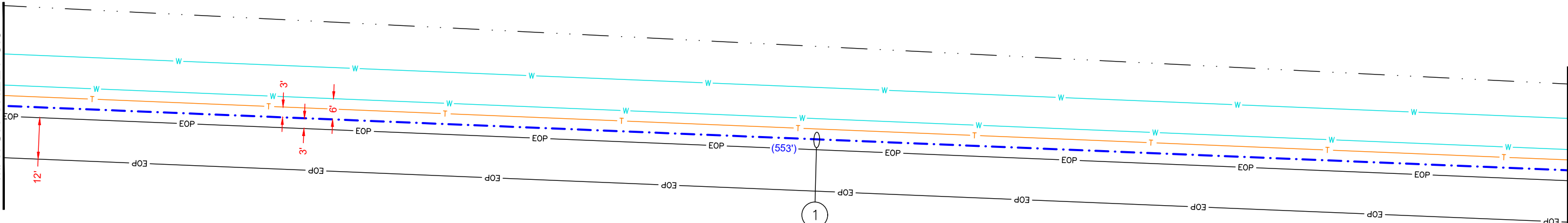
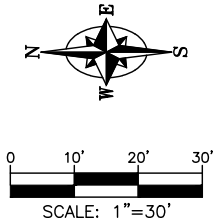
44354

44212

1

⊗

(55')



DESIGN BY K & B TECHNICAL SOLUTIONS		DESIGN DRAWN	
DATE	DESCRIPTION	E.E.	R.P.M.
12/23/25	ORIGINAL ISSUE		
01/21/26	ADDITIONAL NOTES/MINOR CHANGES		

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811
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SHEET
3.4
PROJECT ID
SN-49239

CONSTRUCTION NOTES

- ① DIRECTIONAL DRILL A MIN. OF 24" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT
- ② PL NEW 24X36X24 HANDHOLE TERMINATE NEW CONDUIT IN HANDHOLE

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS

SANDERCOCK
44212 SE SANDERCOCK LN
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CONDUIT PLAN

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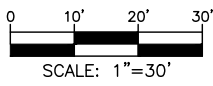
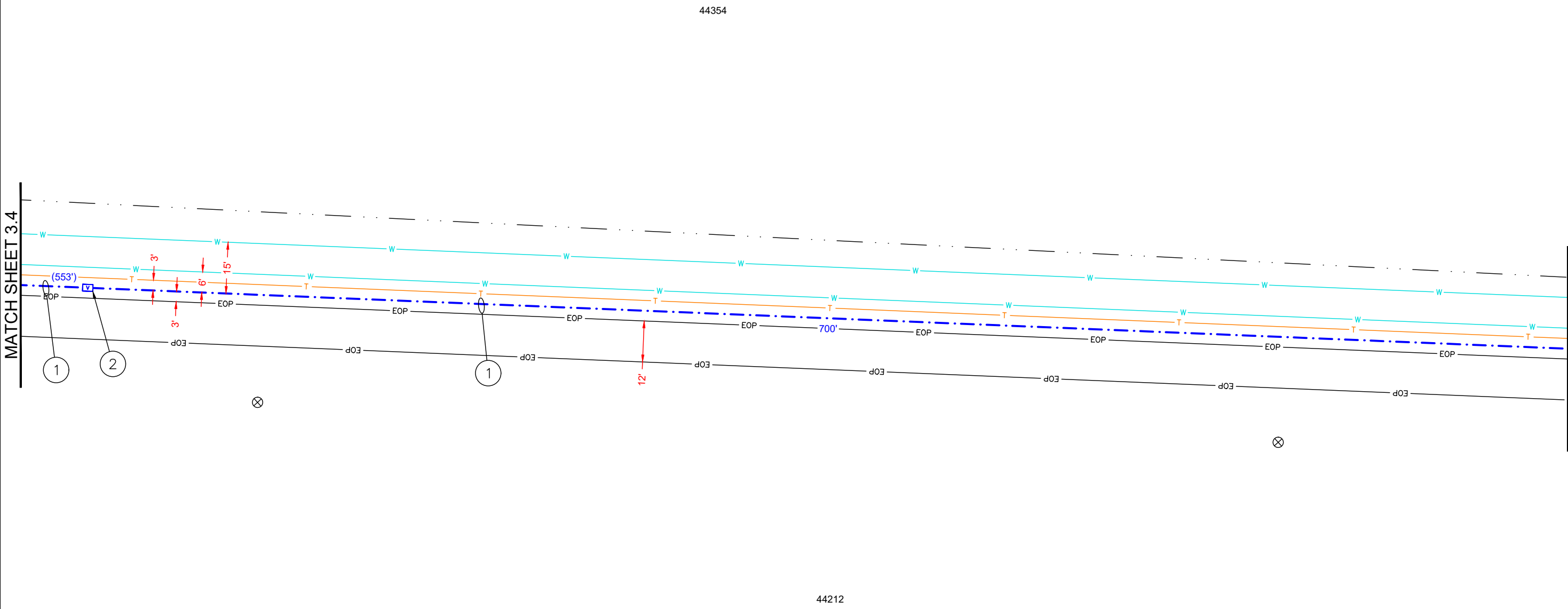
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SHEET
3.5
PROJECT ID
SN-49239

MATCH SHEET 3.4

MATCH SHEET 3.6



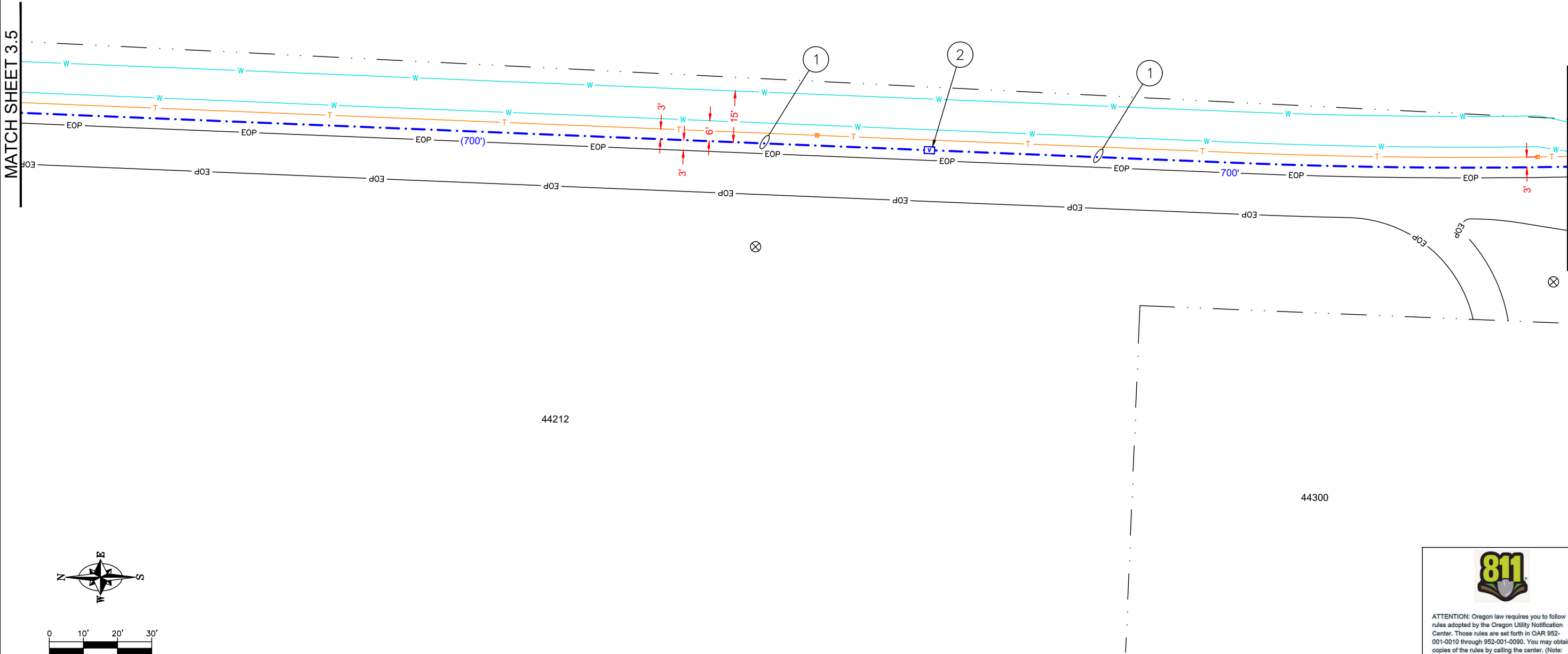
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CONSTRUCTION NOTES

- ① DIRECTIONAL DRILL A MIN. OF 24" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT
- ② PL NEW 24X36X24 HANDHOLE TERMINATE NEW CONDUIT IN HANDHOLE

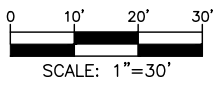
WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS

SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
CONDUIT PLAN



MATCH SHEET 3.5

MATCH SHEET 3.7



DESIGN BY K & B TECHNICAL SOLUTIONS	
DATE	DESCRIPTION
12/23/25	ORIGINAL ISSUE
01/21/26	ADDITIONAL NOTES/ MINOR CHANGES



P.O. BOX 2529, CLACKAMAS, OR 97015
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ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987 or 811).

SHEET
3.6

PROJECT ID
SN-49239

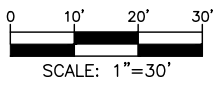
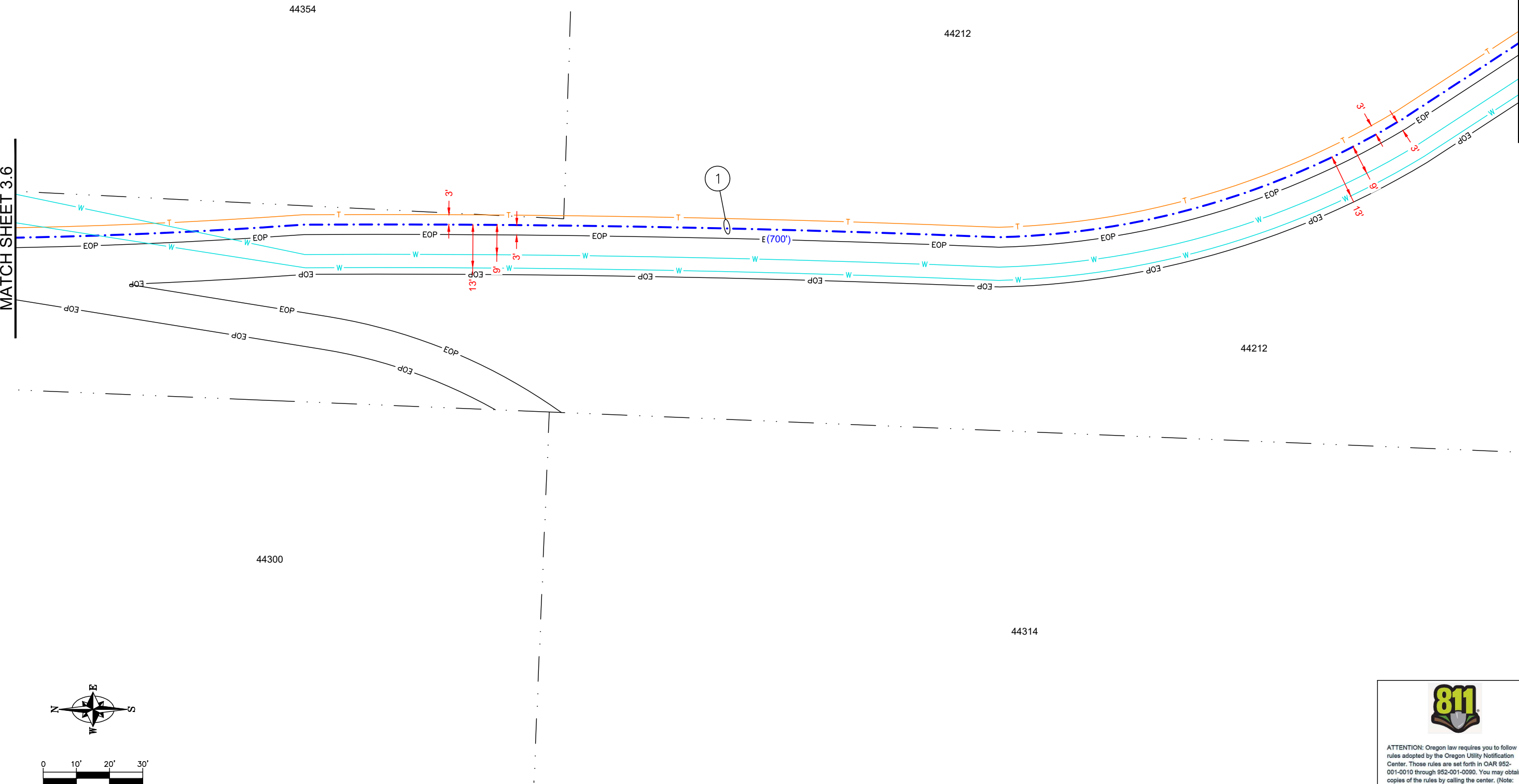
CONSTRUCTION NOTES

- DIRECTIONAL DRILL A MIN. OF 24" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT
BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL
PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS

MATCH SHEET 3.6

MATCH SHEET 3.8



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12/23/25	ORIGINAL ISSUE
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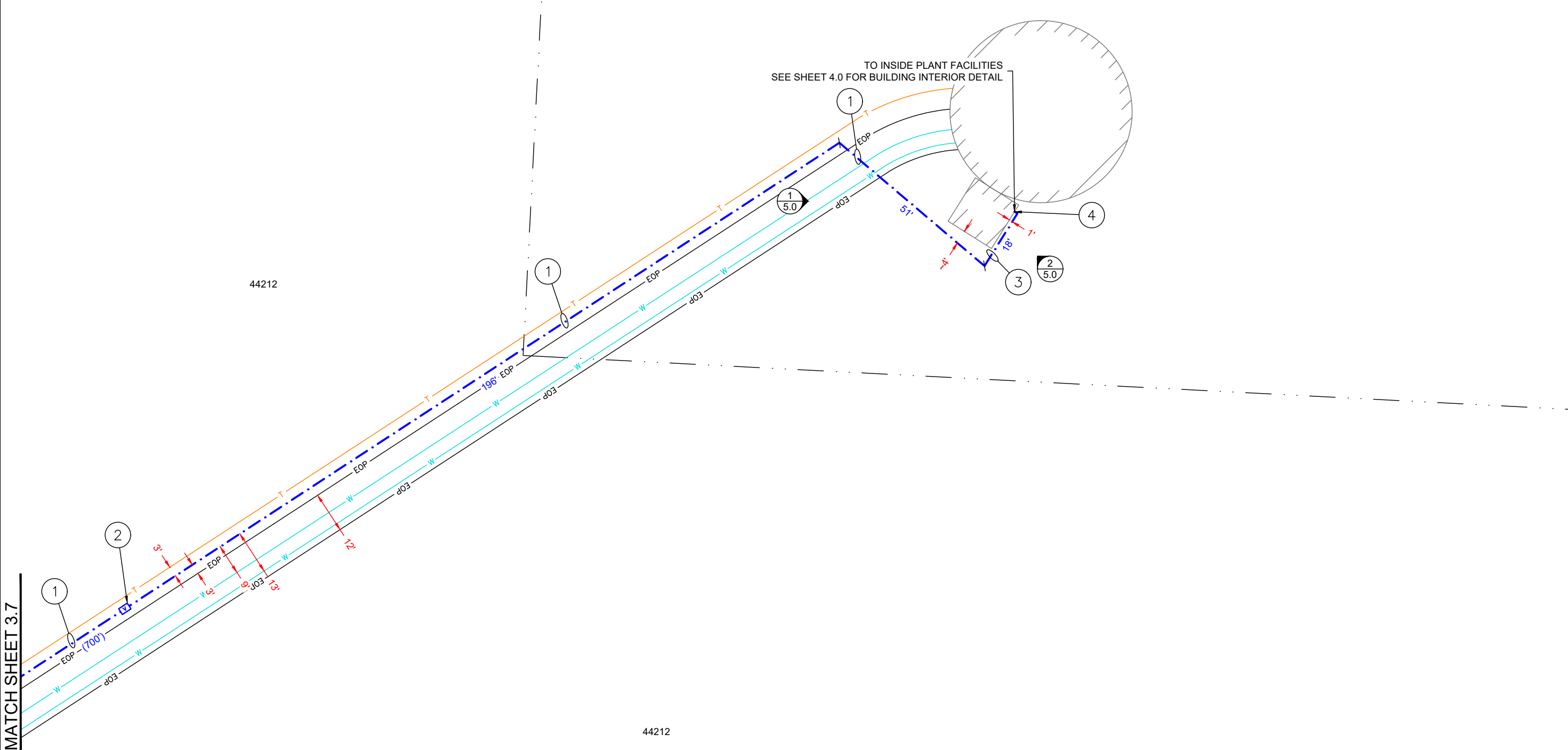
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SHEET
3.7
PROJECT ID
SN-49239

SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
CONDUIT PLAN

MATCH SHEET 3.7



44212

44212



0 10' 20' 30'

SCALE: 1"=30'



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CONSTRUCTION NOTES

- ① DIRECTIONAL DRILL A MIN. OF 24" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT
- ② PL NEW 24X36X24 HANDHOLE TERMINATE NEW CONDUIT IN HANDHOLE
- ③ TRENCH A MIN. OF 24" BELOW GRADE AND PLACE (1)-2" HDPE SDR 11 CONDUIT BLOW NEW MULE TAPE THROUGH CONDUIT FOR FIBER PULL PULL NEW 48F CABLE AND #10 TRACER WIRE THROUGH NEW CONDUIT
- ④ CORE DRILL A (1)-2" PENETRATION IN EXTERIOR BUILDING WALL. PL NEW LB90, WALL SLEEVE, NEW 48F CABLE, AND SEAL NEW PENETRATION

WORK CLOSELY WITH CITY OF SANDY PUBLIC WORKS TO AVOID BORE/TRENCH CONFLICTS AND MAINTAIN DISTANCE FROM EXISTING WATER MAINS

SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
CONDUIT PLAN

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGN/DRAWN	E.E.
12/23/25	ORIGINAL ISSUE	E.E.	R.P.M.
01/21/26	ADDITIONAL NOTES/MINOR CHANGES	E.E.	R.P.M.



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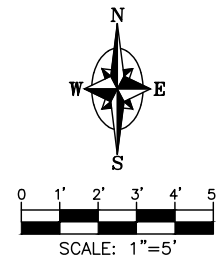
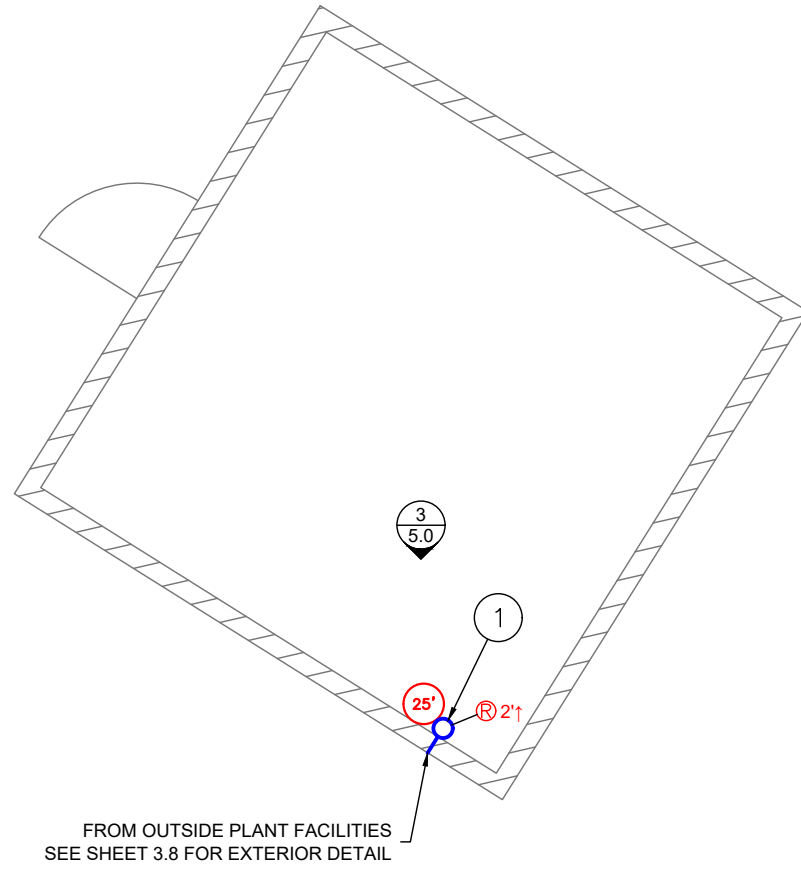
SHEET

3.8

PROJECT ID
SN-49239

CONSTRUCTION NOTES

1 PL NEW BARE 48F CABLE



ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through 952-001-0080. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987 or 811).

DESIGN BY K & B TECHNICAL SOLUTIONS			
DATE	DESCRIPTION	DESIGN/DRAWN	
12/23/25	ORIGINAL ISSUE	E.E.	R.P.M.
01/21/26	ADDITIONAL NOTES/MINOR CHANGES	E.E.	R.P.M.
-	-	-	-
-	-	-	-



SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
SITE DETAIL

SHEET
4.0
PROJECT ID
SN-49239

IMAGE DETAIL
LOOKING SOUTH

PIC # 1
SHEET 3.8

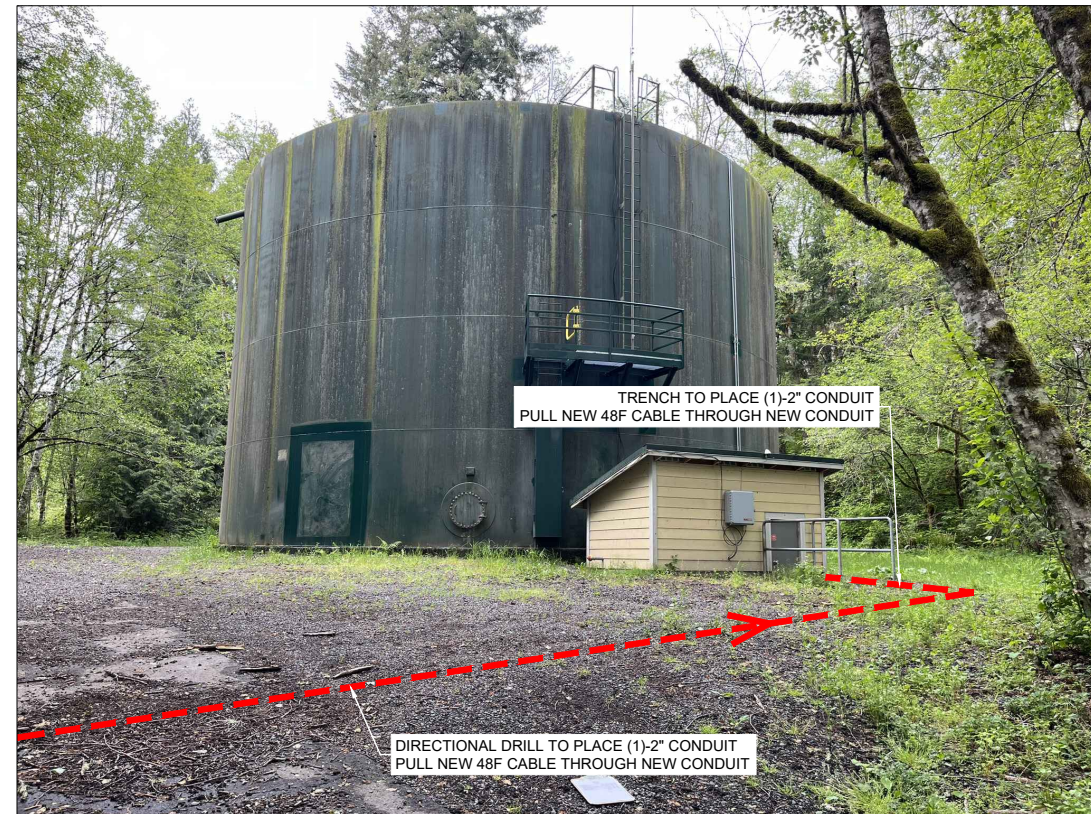


IMAGE DETAIL
LOOKING NORTHEAST

PIC # 2
SHEET 3.8

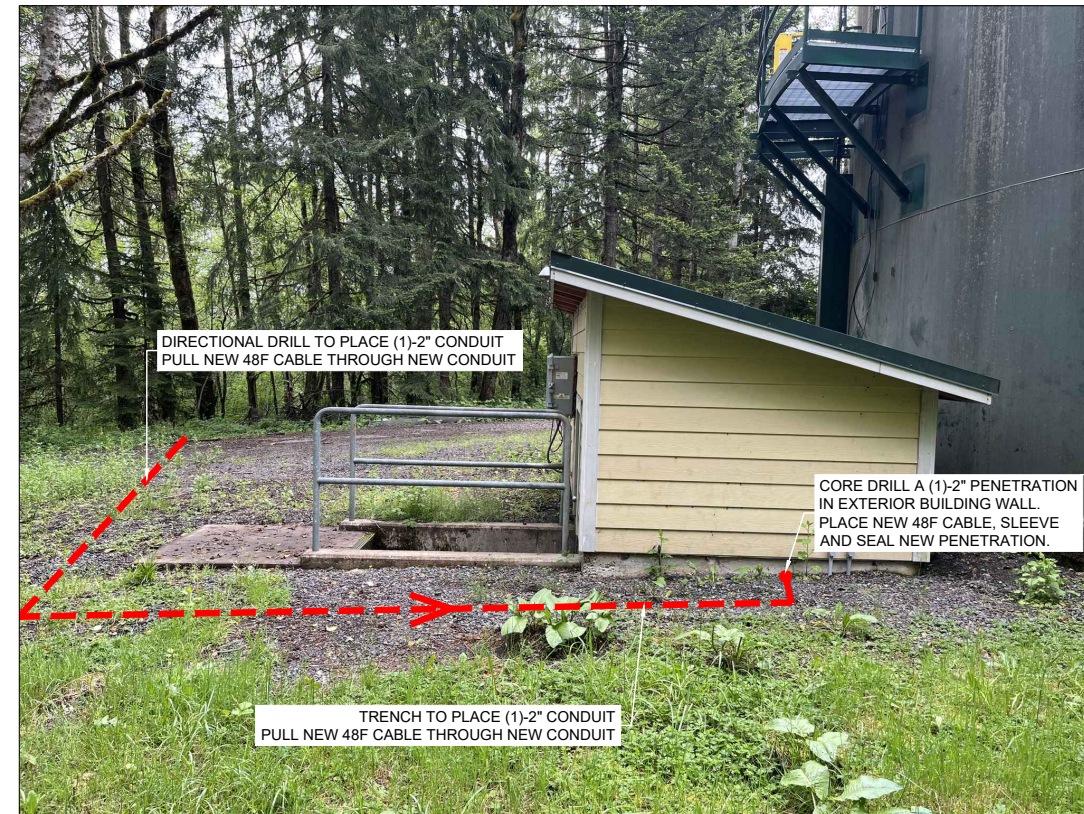


IMAGE DETAIL
LOOKING SOUTH

PIC # 3
SHEET 4.0



SANDERCOCK
44212 SE SANDERCOCK LN
SANDY, OR 97055
SITE PHOTOGRAPHS

DESIGN BY K & B TECHNICAL SOLUTIONS		DESIGN DRAWN	R.P.M.	R.P.M.
DATE	DESCRIPTION	E.E.	E.E.	E.E.
12/23/25	ORIGINAL ISSUE			
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