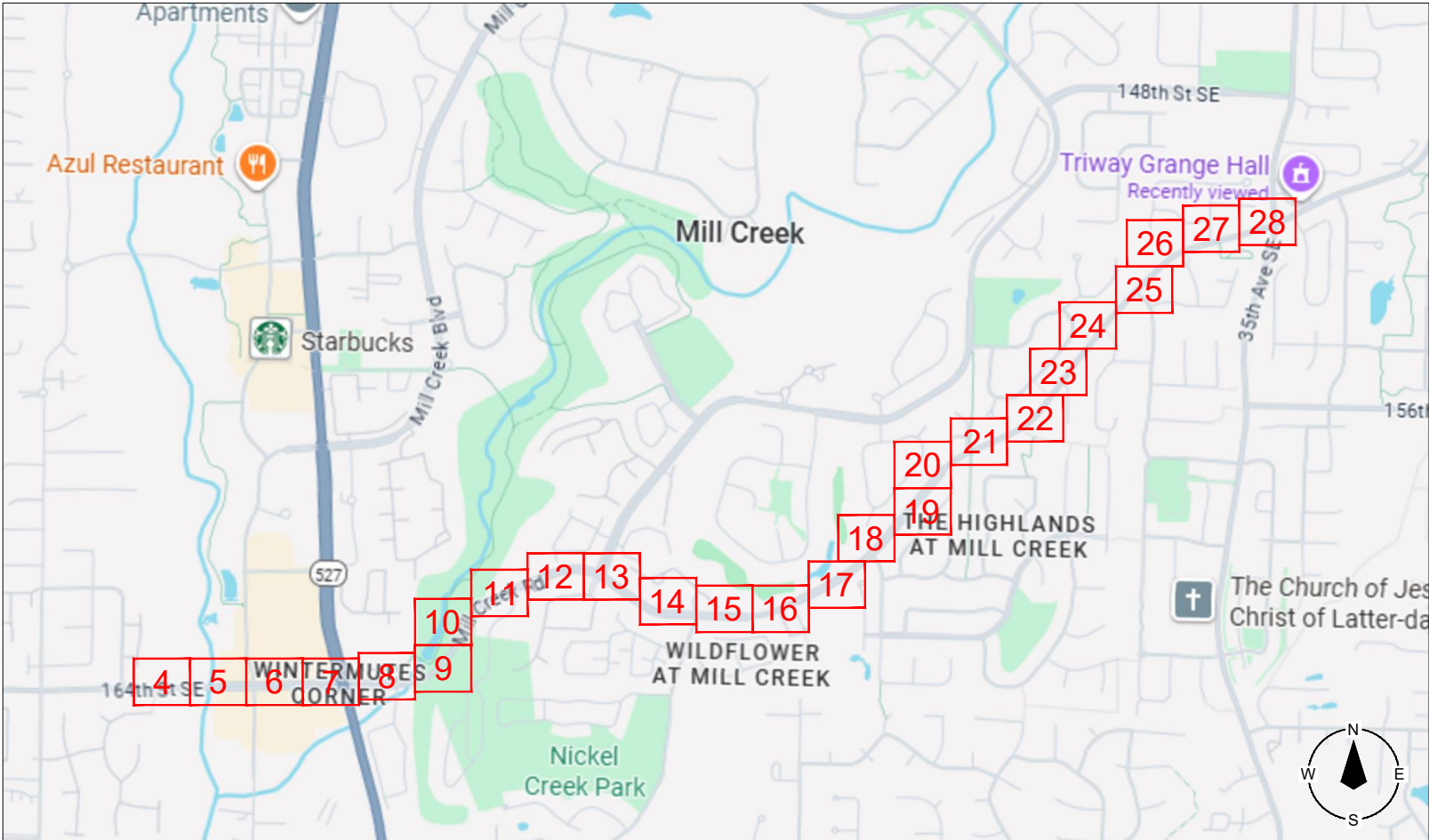


IIG LONGHAUL - MILL CREEK

R5E T27N S6 & S5

PROJECT CONTACT

CONTACT: Dennis Morgison - IIG
PHONE: 206-549-7568
EMAIL: dennis.morgison@intermountainig.com



VICINITY MAP

SCOPE OF WORK

- DIRECTIONAL DRILL (3) CONDUITS: (2) 2" HDPE SDR-11 + (1) 7-WAY 14/10, SEE DETAIL #2 ON SHEET 33
- SET (1) NEW 3'x5' VAULT PER DETAIL #1 ON SHEET 32
- NEW 4'x4' BORE PIT
- TRENCH (3) CONDUITS: (2) 2" HDPE SDR-11 + (1) 7-WAY 14/10, SEE DETAIL #2 ON SHEET 33

BILL OF MATERIALS

RIGHT OF WAY FOOTAGES*:			
OVER-LASH	=	0	FT
NEW AERIAL	=	0	FT
PROOF & PULL	=	0	FT
NEW UNDERGROUND	=	11,185	FT
RISER (0)	=	0	FT
TOTAL ROW FOOTAGE	=	11,185	FT

POLE INFORMATION

POLE COUNT	=	0
TRANSMISSION	=	0
DISTRIBUTION	=	0
POLES THAT NEED PERMIT	=	0
POLES THAT NEED MAKE READY	=	0

SHEET INDEX

1	-	COVER SHEET
2	-	GENERAL NOTES
3	-	LEGEND
4-28	-	CONSTRUCTION PLAN
29-31	-	BORE PROFILE
32-33	-	DETAILS

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Know what's below.
CALL before you dig.

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STANDARD

1. THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ALL UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE EXCAVATIONS AND BORINGS AHEAD OF THE WORK, AS NECESSARY, TO DETERMINE THE EXACT LOCATIONS OF UTILITIES AND UNDERGROUND STRUCTURES. IT IS UNDERSTOOD THAT THERE WILL BE INTERFERING UTILITIES AND OTHER UNDERGROUND PIPES, DRAINS OR STRUCTURES ENCOUNTERED THAT ARE NOT SHOWN OR AREAS SHOWN INCORRECTLY ON THE PLANS OR THAT HAVE NOT BEEN PREVIOUSLY DISCOVERED IN THE FIELD. THE CONTRACTOR AGREES THIS IS A NORMAL AND USUAL OCCURRENCE IN THE CONSTRUCTION OF UNDERGROUND IMPROVEMENTS. FURTHERMORE, CONTRACTORS UNDERSTAND AND AGREE THAT WORK IN SOME CASES PROPOSED PATH MAYBE IN CLOSE PROXIMITY TO SAID UTILITIES AND UNDERGROUND PIPES, DRAINS AND STRUCTURES NOT SHOWN ON THE PLANS WHICH MAY REQUIRE A CHANGE IN OPERATIONS AND MAY CAUSE SLOUGHING OF THE TRENCH, ADDITIONAL TRAFFIC CONTROL, ADDITIONAL PAVEMENT AND BACKFILL COSTS AND TIME. THE CONTRACTOR AGREES THAT A REASONABLE NUMBER OF THESE OCCURRENCES IS USUAL AND ORDINARY, AND ARE REFLECTED IN THE BID AND PLAN OF OPERATION. THE CONTRACTORS AGREES TO PROVIDE FOR THESE CONFLICTS AND AGREES TO PROVIDE FOR A REASONABLE AMOUNT OF TIME FOR DESIGN CHANGES AND/OR UTILITY RELOCATIONS DUE TO SAID CONFLICTS.
2. CALL THE UTILITIES UNDERGROUND LOCATION CENTER AT 811
3. INSPECTIONS - THE CONTRACTOR SHALL NOTIFY LOCAL JURISDICTIONS FOR REQUIRED INSPECTION SERVICES.
4. EXCESS WATER - SHOULD WATER BE ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEWATER, AS PER LOCAL JURISDICTIONS STANDARD SPECIFICATIONS, BEFORE CONSTRUCTION CONTINUES.
5. NO SILT LADEN WATER IS TO BE DISCHARGED FROM THE SITE WITHOUT PASSING THROUGH AN EROSION CONTROL SYSTEM.
6. THE CONTRACTOR SHALL SCHEDULE AND CONTROL HIS/HER WORK SO AS TO COMPLY WITH ALL APPLICABLE ORDINANCES TO PREVENT ANY HAZARDS TO PUBLIC SAFETY, HEALTH AND WELFARE.
7. ALL STREETS SHALL BE KEPT FREE OF DIRT AND DEBRIS ON A CONTINUOUS BASIS.
8. AN APPROVED COPY OF THESE PLANS WILL BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
10. PEDESTRIAN AND VEHICULAR ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES EXCEPT WHERE PRIOR WRITTEN APPROVAL FROM THE PROPERTY OWNER HAS BEEN OBTAINED.
11. BARRICADE OPEN DEPRESSIONS AND HOLES OCCURRING AS PART OF THIS WORK, AND POST WARNING LIGHTS ON ADJACENT PROPERTIES WITH PUBLIC ACCESS. OPERATE WARNING LIGHTS DURING HOURS FROM DUSK TO DAWN EACH DAY AND AS OTHERWISE REQUIRED.
12. PROTECT STRUCTURES, UTILITIES, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING WASHOUT AND OTHER HAZARDS CREATED BY OPERATIONS UNDER THIS SECTION.
- TRAFFIC CONTROL
1. THE CONTRACTOR IS ADVISED THAT ALL LANE CLOSURES SHALL BE KEPT TO A MINIMUM. LOCAL JURISDICTIONS WILL APPROVE ONLY THOSE LANE AND ROADWAY CLOSURES DETERMINED TO BE NECESSARY FOR THE CONTRACTOR TO ACCOMPLISH A SPECIFIC TASK. NO LANE OR ROADWAY CLOSURES WILL BE PERMITTED WITHOUT PRIOR APPROVALS.
2. THE CONTRACTOR SHALL KEEP ALL TRAFFIC LANES AND SHOULDERS CLEAR OF EQUIPMENT AND MATERIALS DURING NON-WORKING HOURS. EQUIPMENT AND MATERIALS SHALL NOT BE STORED ON THE STREETS. THE CONTRACTOR'S EMPLOYEES AND AGENTS SHALL NOT PARK PRIVATE VEHICLES ALONG THE ROADWAY OR MEDIAN.
- SITE PREPARATION
1. SOD AND LAWN TO BE REMOVED SHALL BE CUT TO A NEAT VERTICAL LINE 6" MINIMUM BEYOND THE TRENCH LINE. SOD SHALL BE EITHER REMOVED FROM THE SITE, OR CAREFULLY STOCKPILED FOR REUSE.
2. SAW CUT PAVEMENT TO A NEAT VERTICAL LINE 8" TO 12" MINIMUM BEYOND THE TRENCH LINE. REPLACE PAVEMENT WITH LIKE MATERIAL (I.E., ASPHALT WITH ASPHALT, CONCRETE WITH CONCRETE).
- TRENCH EXCAVATION AND BACKFILL
1. TRENCH BACKFILL - WHERE MATERIAL EXCAVATED FROM TRENCHES IS UNSUITABLE FOR BACKFILL, THE CONTRACTOR SHALL BACKFILL WITH BANK RUN GRAVEL OR MAY ELECT TO USE CDF IN LIEU OF THE COMPACTION/PROCTOR PROCESS. STONEWAY MIX 351 IS ACCEPTABLE IN ALL LOCATIONS. QUICK SETTING MIX 1004 IS ACCEPTABLE IN NON-TRAFFIC AREAS. MIX 1121 IS TO BE USED IN TRAFFIC-BEARING LOCATIONS.
2. COMPACTION, WHEN NECESSARY, SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS.

UTILITY DUCT

1. BURIED DUCT SHALL BE SCHEDULE 80 PVC OR EQUIVALENT, UNLESS NOTED OTHERWISE. MINIMUM CONDUIT COVER SHALL BE 36" WITH A MINIMUM SLOPE OF 1/2 % TO VAULT.
2. THOROUGHLY CLEAN CONDUIT BEFORE USING OR LAYING. DURING CONSTRUCTION AND AFTER THE DUCT LINE IS COMPLETED, PLUG ENDS OF CONDUITS TO PREVENT WATER WASHING INTO CONDUIT OR MANHOLES, TAKE PARTICULAR CARE TO KEEP CONDUITS CLEAR OF CONCRETE, DIRT AND ANY OTHER SUBSTANCE DURING THE COURSE OF CONSTRUCTION.
3. AFTER DUCT PLACEMENT HAS BEEN COMPLETED, PROOF AND CLEAN DEBRIS FROM EACH DUCT, ITS ENTIRE LENGTH. INSTALL PULL ROPE AND PLACE WATERTIGHT COMPRESSION PLUGS AT BOTH ENDS. ANY CONDUITS CONTAINING FIBER CABLE WILL REQUIRE SIMPLEX COMPRESSION PLUGS SEALING THE CONDUITS AROUND THE CABLE.
4. EXPOSED INNERDUCT INSIDE OF BUILDINGS SHALL BE PLENUM-RATED.

CEMENT CONCRETE PAVEMENT

1. ALL CONCRETE PAVEMENT REMOVED OR DAMAGED BY THIS WORK SHALL BE REPLACED ACCORDING TO THE STANDARD SPECIFICATIONS OF EACH JURISDICTION.

ASPHALT CONCRETE PAVEMENT

1. ALL ASPHALT CONCRETE PAVEMENT REMOVED OR DAMAGED BY THIS WORK SHALL BE REPLACED WITH CLASS B ASPHALT CONCRETE ACCORDING TO THE REQUIREMENTS OF EACH JURISDICTION.

GRAVEL AREAS

1. ALL GRAVEL AREAS DAMAGED OR REMOVED BY THIS WORK SHALL BE REPLACED WITH CRUSHED SURFACING TOP COURSE IN ACCORDANCE WITH THE REQUIREMENTS OF EACH JURISDICTION.

SITE RESTORATION

1. ALL DISTURBED OR DAMAGED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO, OR BETTER THAN, THAT WHICH EXISTED PRIOR TO PLACEMENT OF THE CONDUIT AND STRUCTURES.
2. SITE RESTORATION SHALL INCLUDE REPLACING EXISTING CABLING AND PULL ROPES IN EXISTING CONDUITS AS THEY EXISTED PRIOR TO CONSTRUCTION.

WATER QUALITY

1. CONSTRUCTION ACTIVITIES OCCURRING ADJACENT TO STORM DRAINAGE STRUCTURES SHALL COMPLY WITH THE STATE OF WASHINGTON'S WATER QUALITY STANDARDS
2. THE CONTRACTOR SHALL LIMIT THE USE OF PETROLEUM PRODUCTS ON THE SITE.

DIRECTIONAL BORING

1. IF SLEEVE IS REQUIRED FOR BORING ROADWAYS, INSTALL (1) 6" SDR-11 SLEEVE.

2. PROTECT EXISTING UTILITIES -- COORDINATE WITH LOCAL JURISDICTIONS TO POTHOLE AS REQUIRED TO LOCATE EXISTING UTILITIES.

FIRE PROTECTION

1. ALL INSTALLED BACKBOARDS SHALL BE PAINTED WITH FIRE-RESISTANT PAINT.
2. ALL FIRE SEALED DUCT ENDS AND CORES SHALL BE 2 HOUR FIRE-RATED. ALL FIRE SEAL IN EXISTING LOCATIONS SHALL BE REPAIRED OR REPLACED UPON DUCT OR CABLE PLACEMENT.

AERIAL INSTALLATION

1. ALL AERIAL CONSTRUCTION IS TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.
2. ALL NEW AERIAL (AND EXISTING) CABLE HEIGHTS OF ATTACHMENT TO BE DOCUMENTED AT TIME OF CONSTRUCTION.
3. 6.35 MM STRAND TO BE USED WITH STANDARD 1/4" POLE LINE HARDWARE UNLESS OTHERWISE SPECIFIED. BOND STRAND TO POWER MAIN WHERE APPLICABLE.
4. ALL ANCHORS TO BE USED WILL BE 3/4" SCREW TYPE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND FOLLOW ALL NESC CODES ALONG WITH APPLICABLE LOCAL AND REGIONAL GOVERNING AUTHORITIES. ANY DISCREPANCIES BETWEEN THESE AUTHORITIES AND OR THE CONSTRUCTION PERMITS IS TO BE VALIDATED WITH THE DESIGNER OR ENGINEER PRIOR TO CONSTRUCTION.

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LINE TYPES

	PARCEL LINE
	BUILDING OUTLINE
	LANE LINE
	CENTERLINE / STATION LINE
	FOG LINE
	EDGE OF PAVEMENT (EOP)
	RIGHT OF WAY (ROW)
	SIDEWALK (S/W)
	DRIVEWAY (D/W)
	FENCE
	GUARDRAIL
	CROSSWALK
	RAILROAD
	STRAW WATTLES
	POWER
	TRAFFIC SIGNAL
	FIBER OPTIC
	TELECOMMUNICATION
	SEWER MAIN
	SANITARY SEWER
	DRAIN MAIN
	DRAINAGE DITCH
	GAS
	OIL
	STEAM
	WATER
	OVERHEAD UTILITIES
	UNKNOWN UTILITY
	TRAFFIC CONES
	EXISTING AERIAL
	NEW AERIAL
	EXISTING/PROOF & PULL CONDUIT
	PROPOSED CONDUIT

HATCH PATTERNS

	LIMITS OF RESTORATION		LANDSCAPE		ROWIP SIDEWALK WZ
	CONCRETE ASPHALT		GRAVEL		WETLAND
	CONCRETE PANELS		ROWIP ALLEY / TRAVEL LANE WZ		
	BRICK/COBBLE		ROWIP PARKING / BIKE LANE WZ		

SYMBOLS

	/		VAULT (EXIST / NEW) SIZE MAY VARY		EXISTING SPLICE CASE
	/		MANHOLE (EXIST / NEW)		NEW SPLICE CASE
	/		DOGHOUSE (EXIST / NEW)		NEW MAT. STORAGE
	/		TIGERHOUSE (EXIST / NEW)		NEW COAX TAP
	/		NODE CABINET (EXIST / NEW)		UTILITY POTHOLE
	/		PEDESTAL (EXIST / NEW)		POLE ANCHOR / DOWN GUY
			CATCH BASIN		TREE
			CATCH BASIN W/ SOCK		SHRUBBERY
			CROSSWALK SIGNAL		STREET SIGN
			STREET LIGHT		MAP COMPASS
			FIRE HYDRANT		FOOTAGE NOTE
			WATER METER		LANE DIRECTION INDICATOR
			UTILITY VALVE		BUS STOP LOCATION
	/		UTILITY POLE (EXIST / NEW)		ADA RAMP
	/		UTILITY RISER (EXIST / NEW)		

MARK-UP NOTATIONS

	PHOTO LOCATOR/ORIENTATION CALLOUT
	CONSTRUCTION NOTE CALLOUT
	POLE # CALLOUT
	VAULT # CALLOUT
	DISTANCE STATION
	DISTANCE DIMENSION
	PHOTO NOTE CALLOUT
	CROSS SECTION SYMBOL
	CROSS SECTION NAME CROSS SECTION SHEET #

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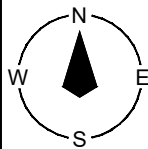
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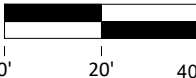
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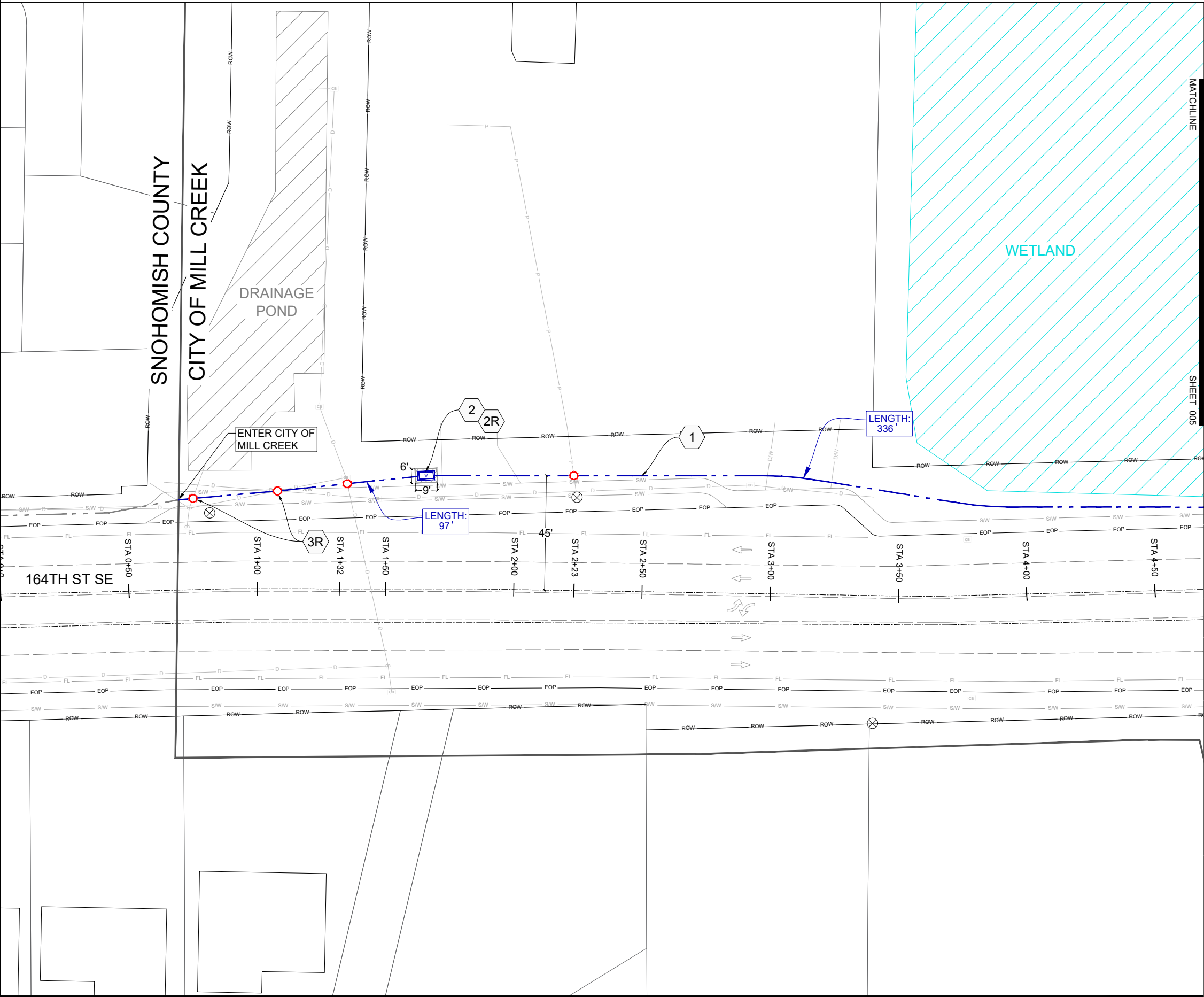


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LOCATION



POTHOLE DISCLAIMER

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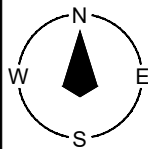
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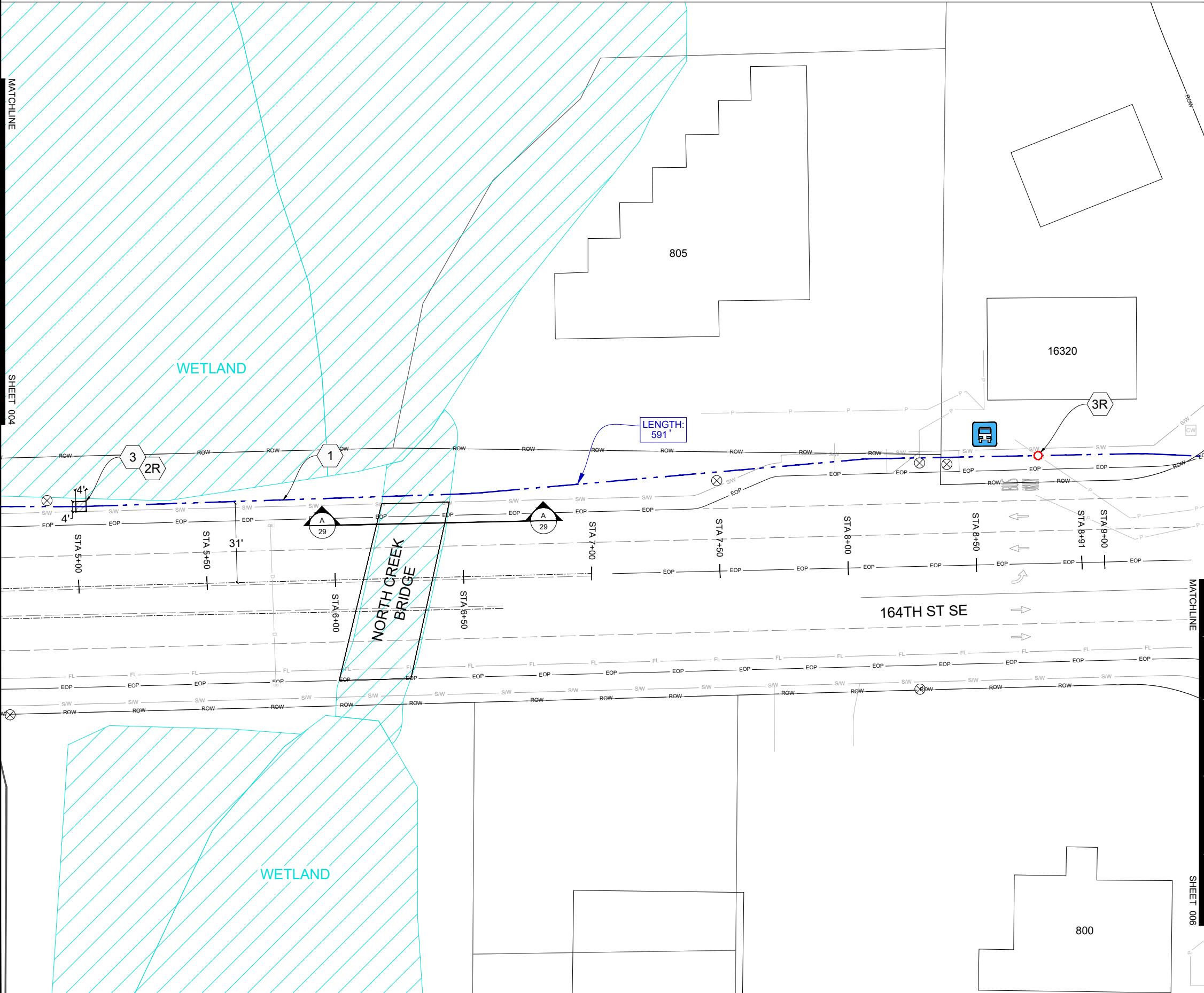
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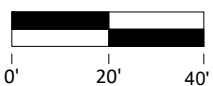
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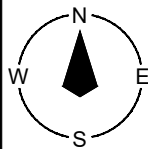


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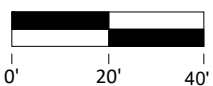
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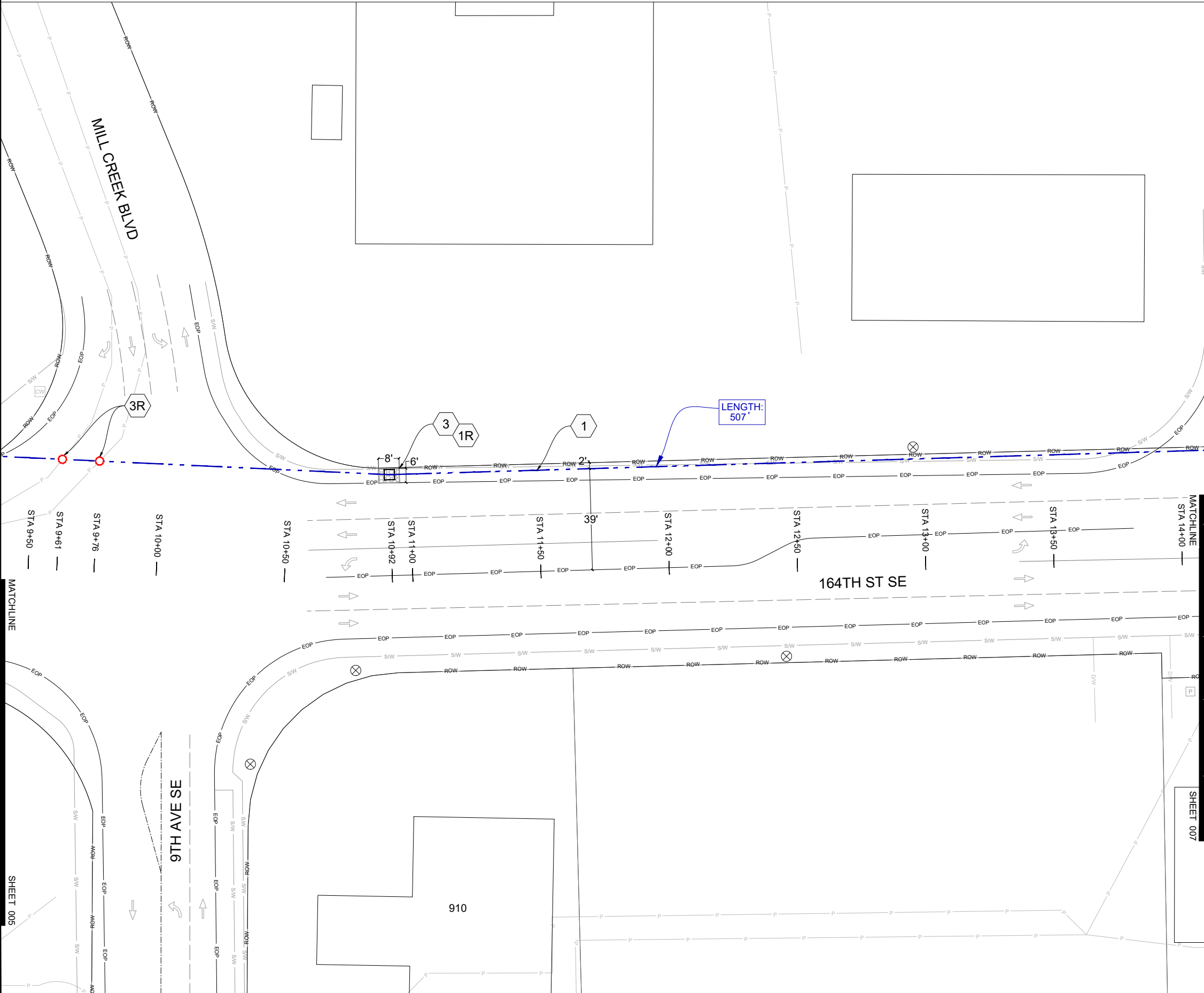


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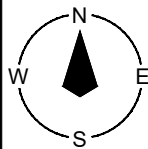
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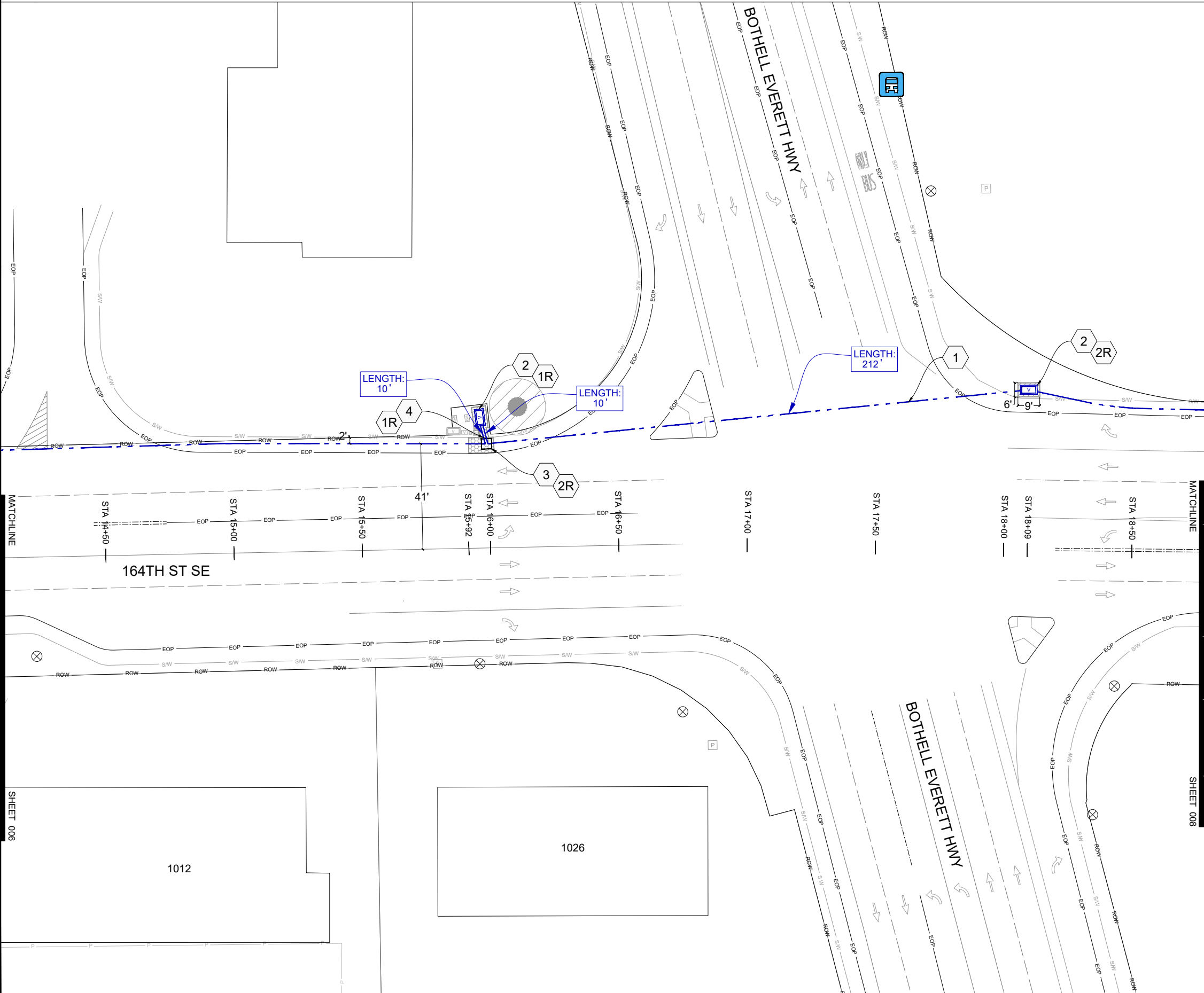
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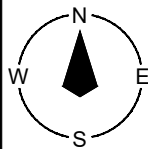
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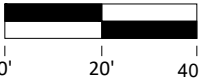
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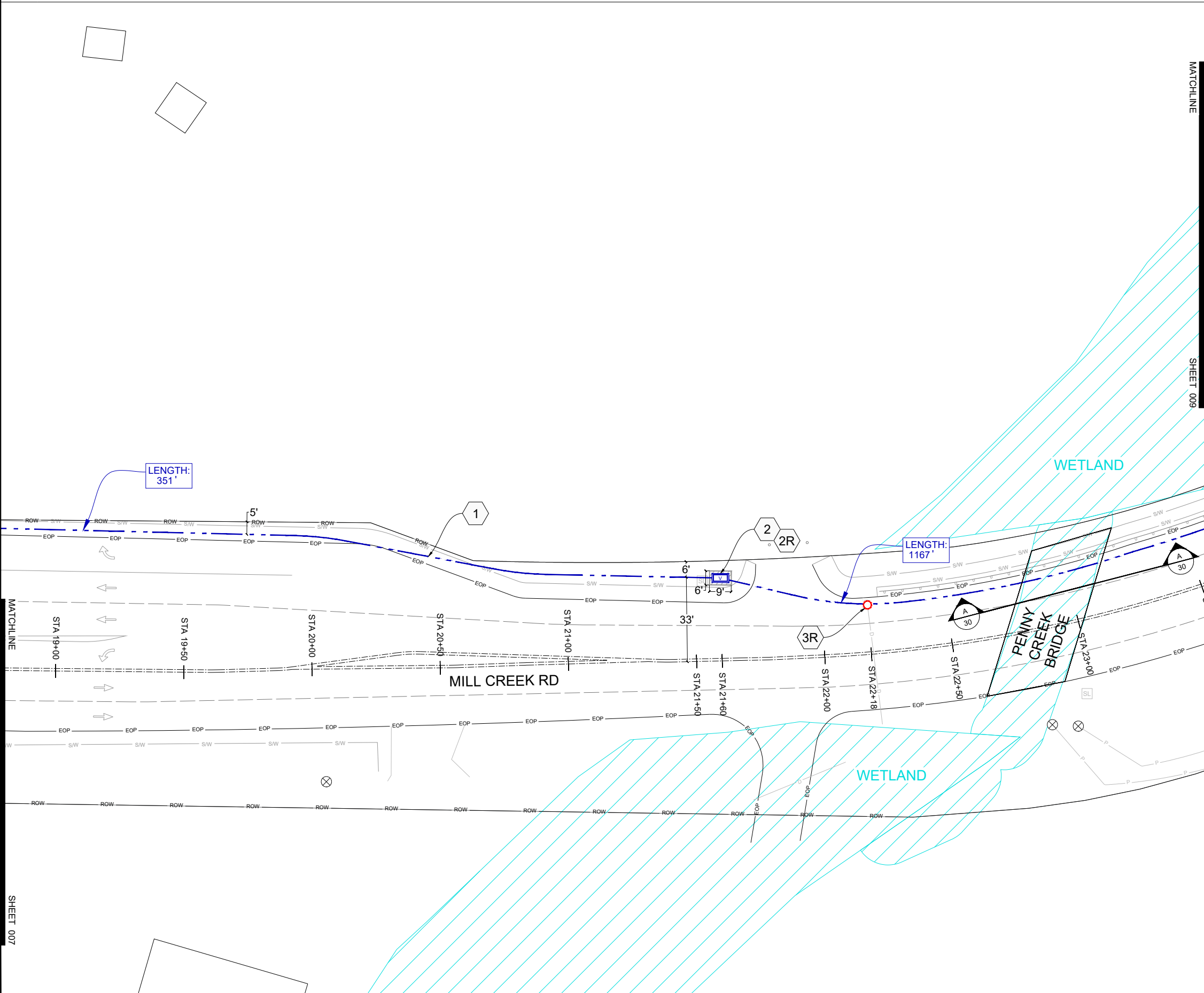


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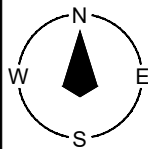
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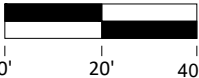
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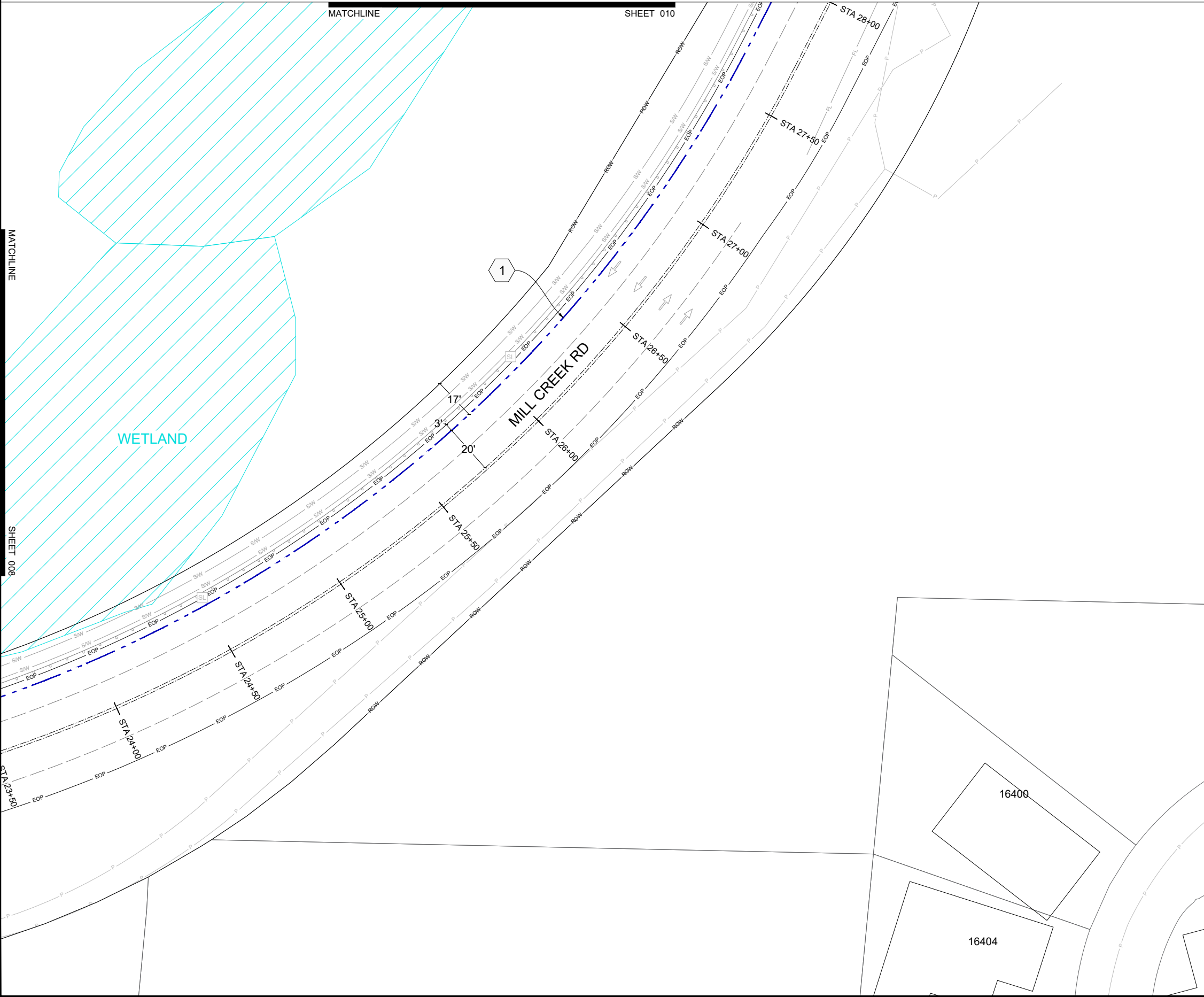


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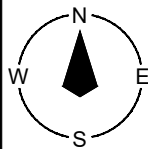
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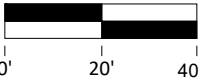
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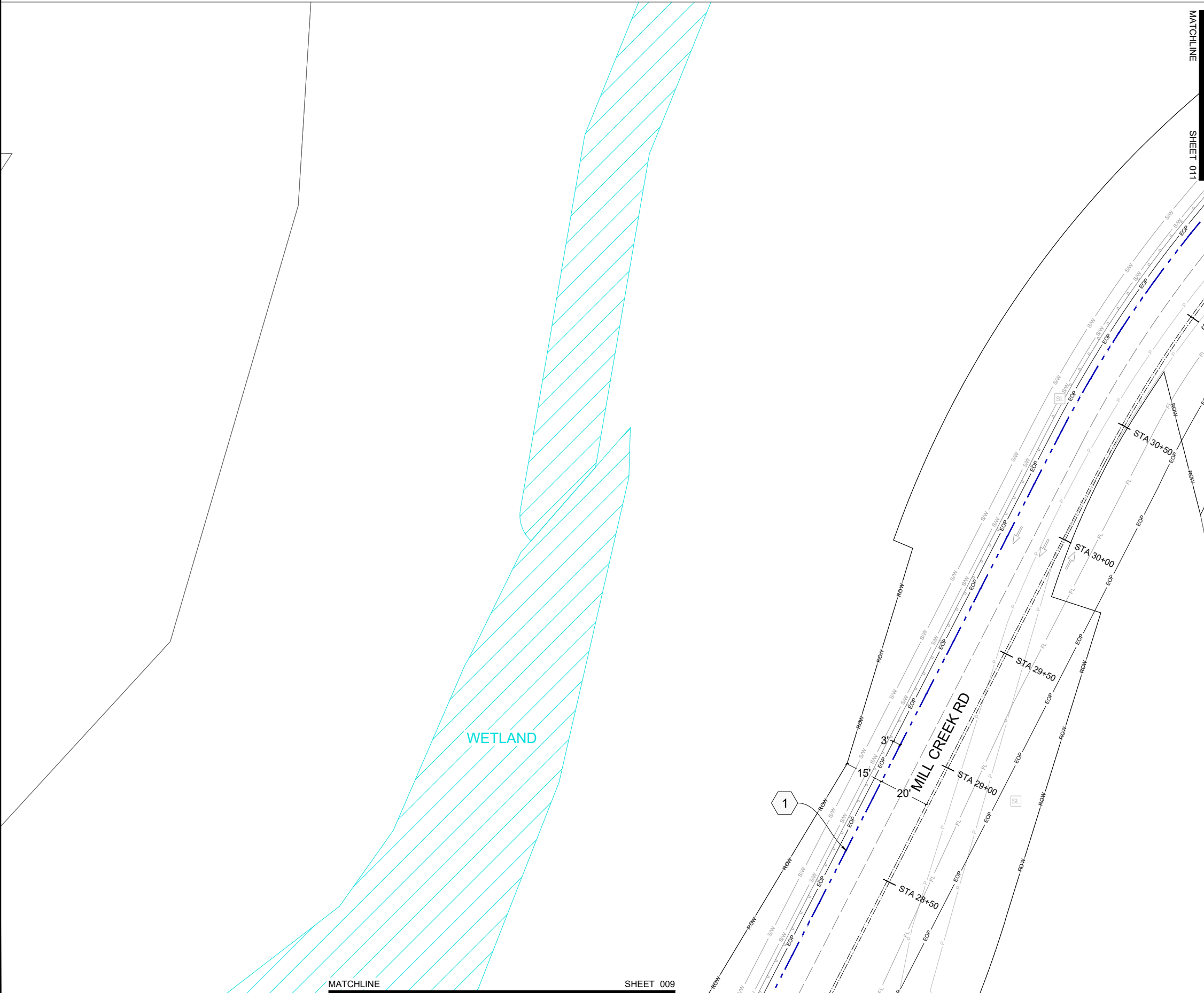


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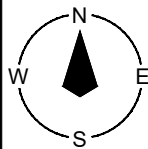
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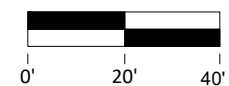
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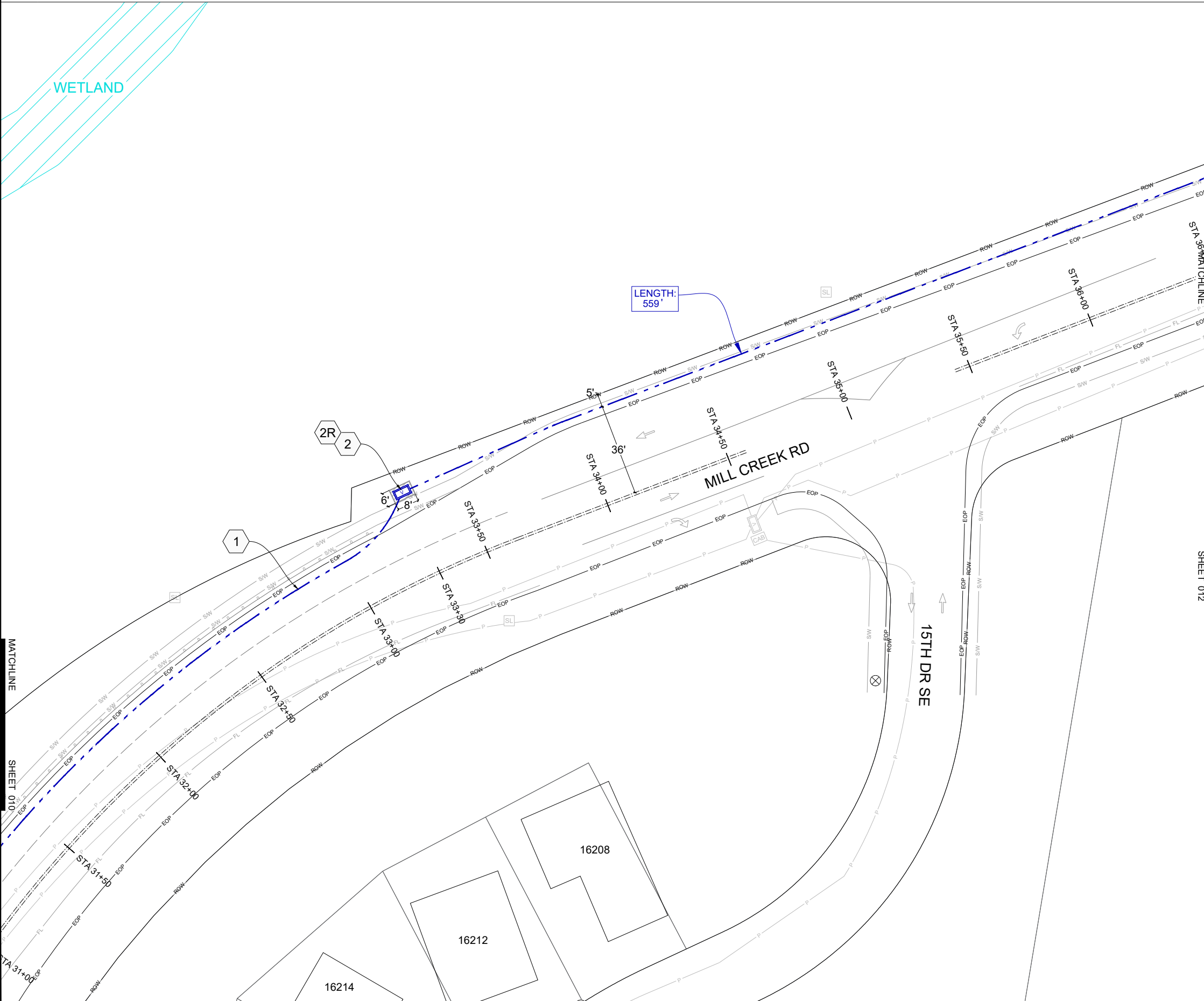


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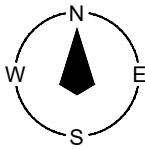
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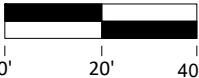
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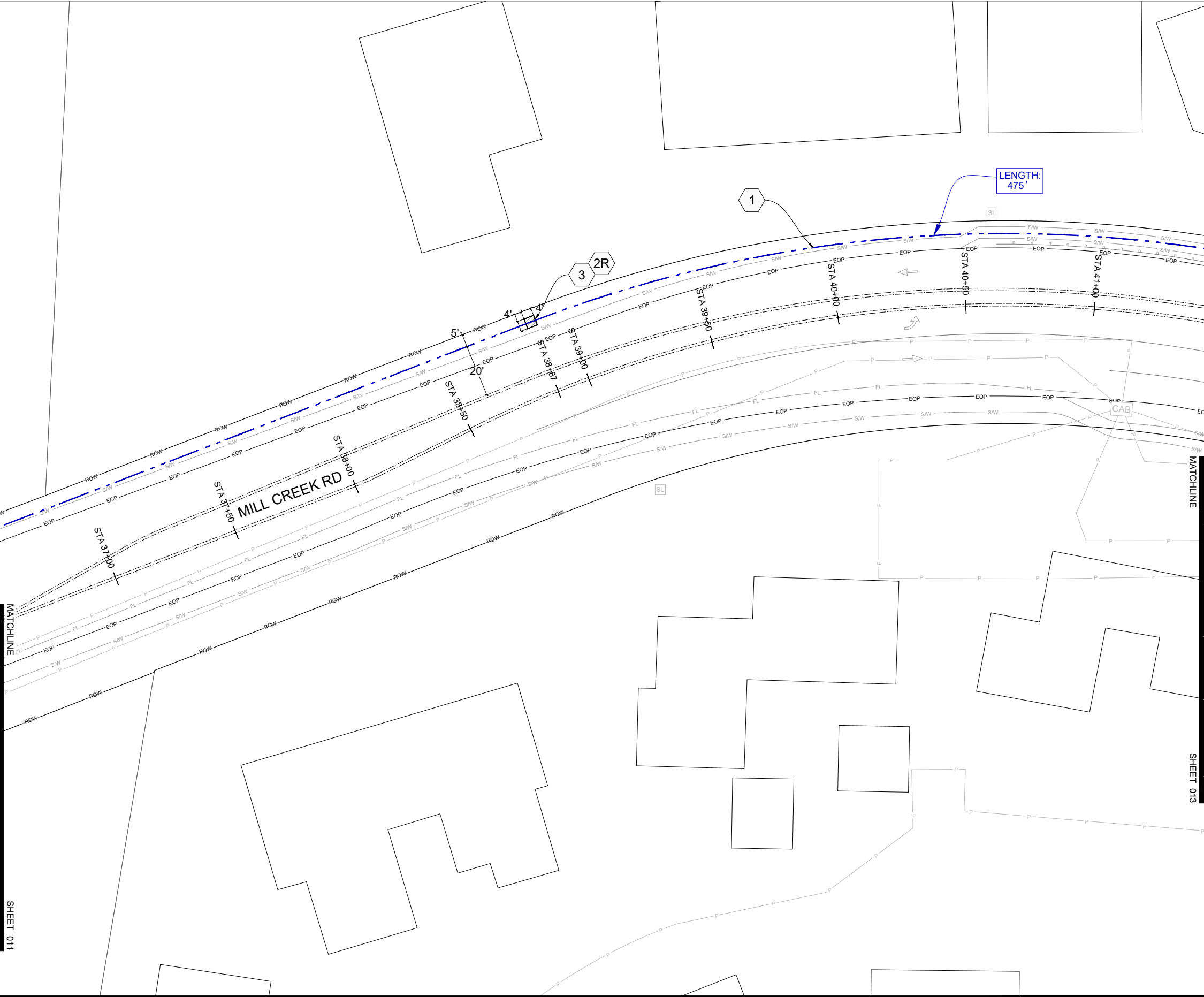


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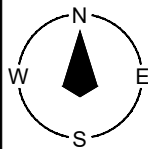
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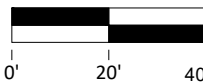
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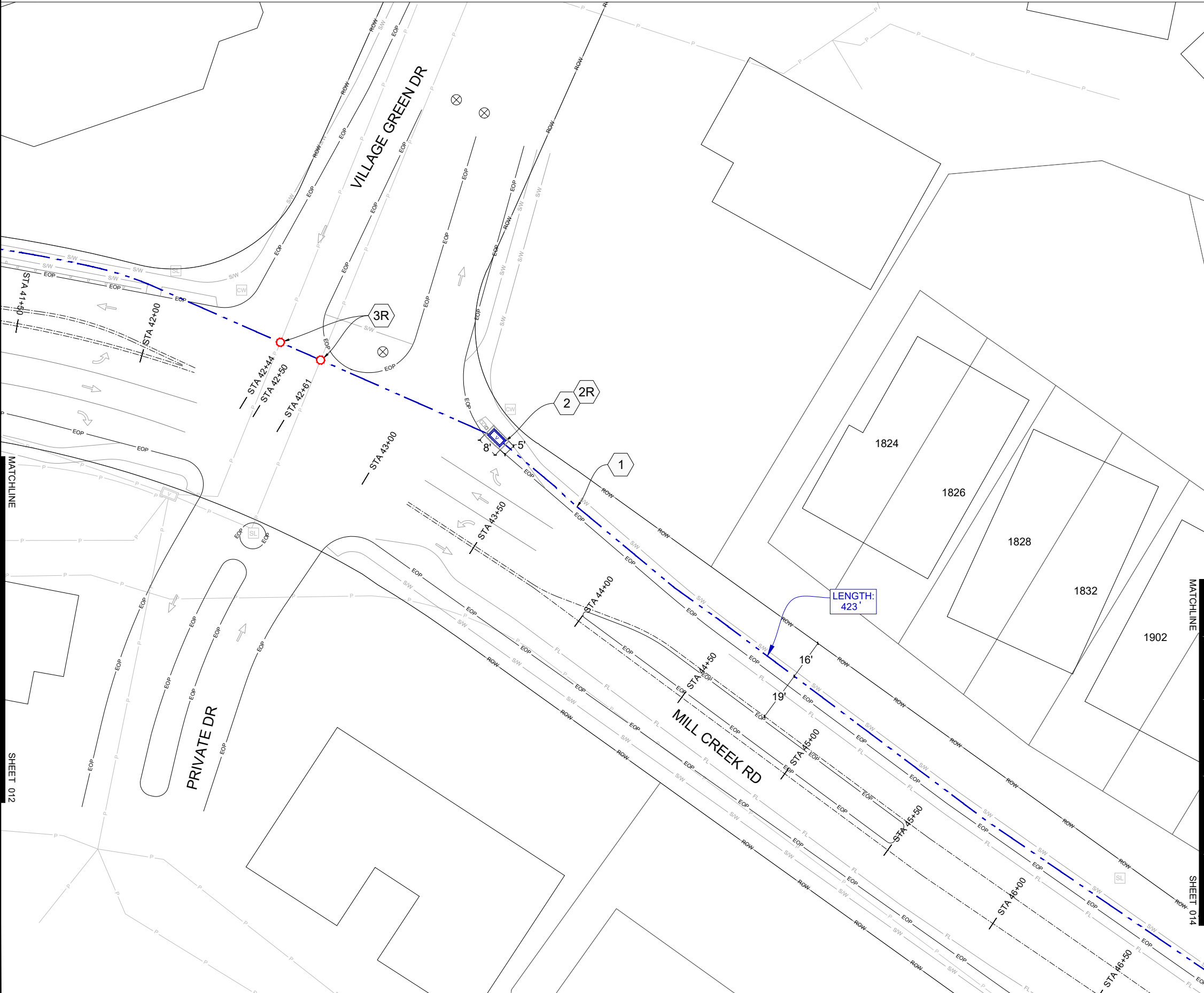


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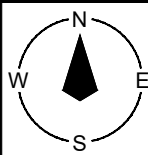
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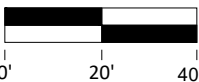
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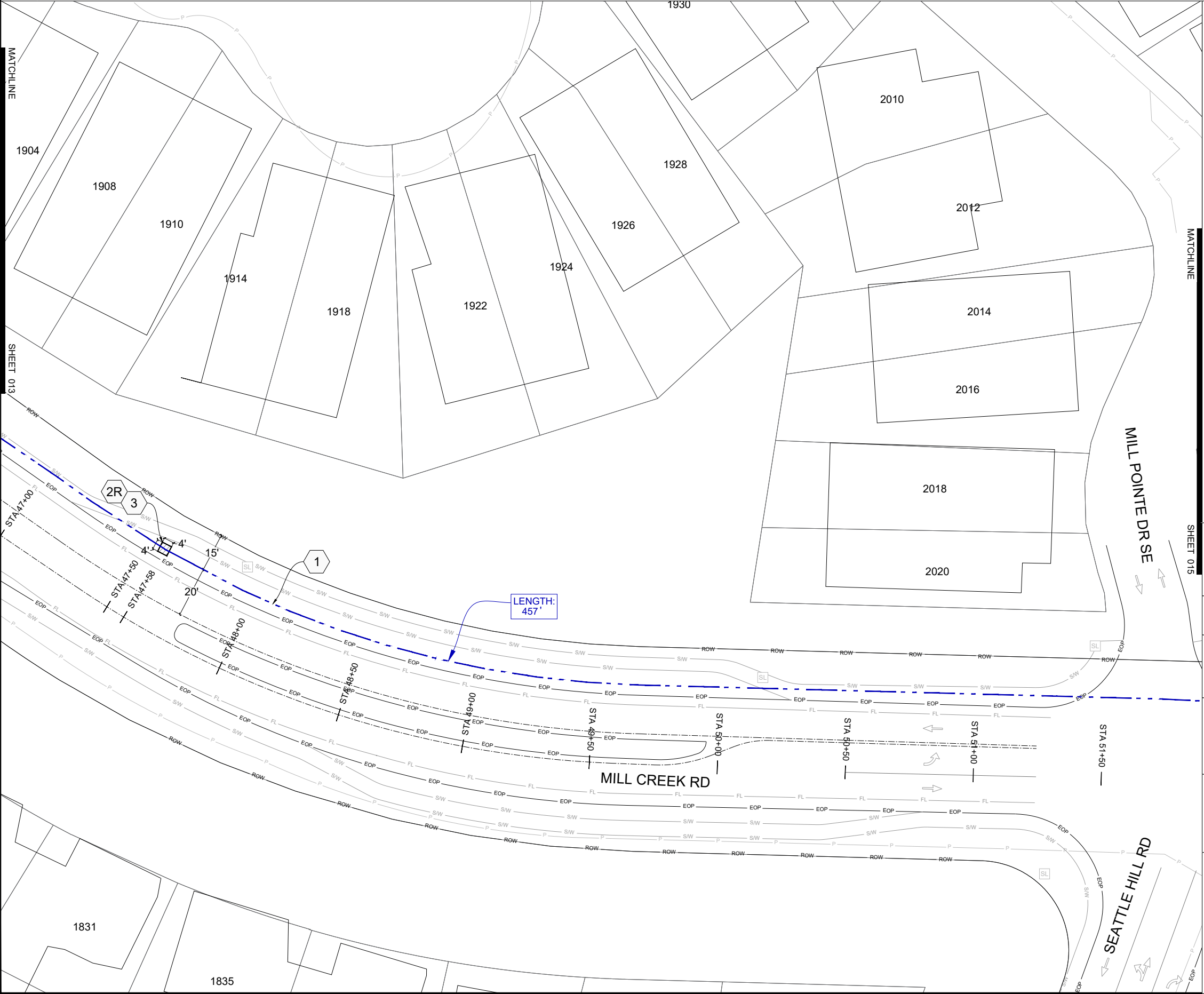


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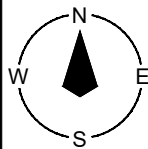
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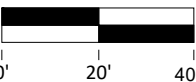
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CONSTRUCTION NOTES:

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SET (1) NEW 3'x5' VAULT PER DETAIL #1 ON SHEET 32

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RESTORATION NOTES:

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RESTORE CONCRETE SIDEWALK PER CITY OF MILL CREEK SPECIFICATIONS. STR-3

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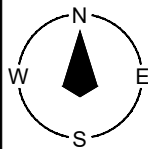
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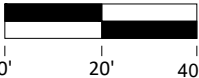
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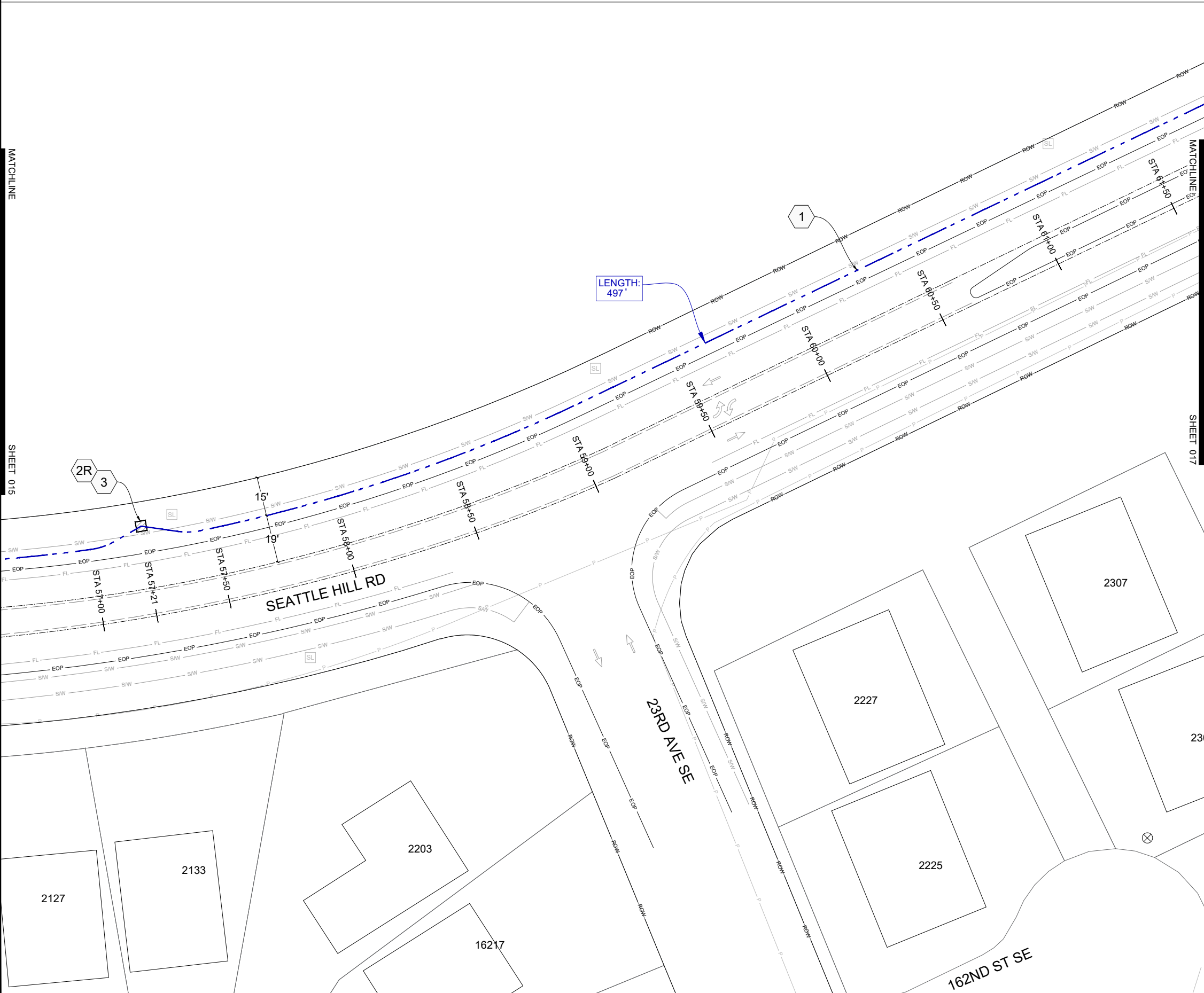


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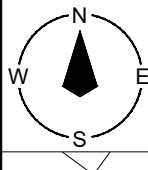
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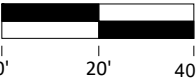
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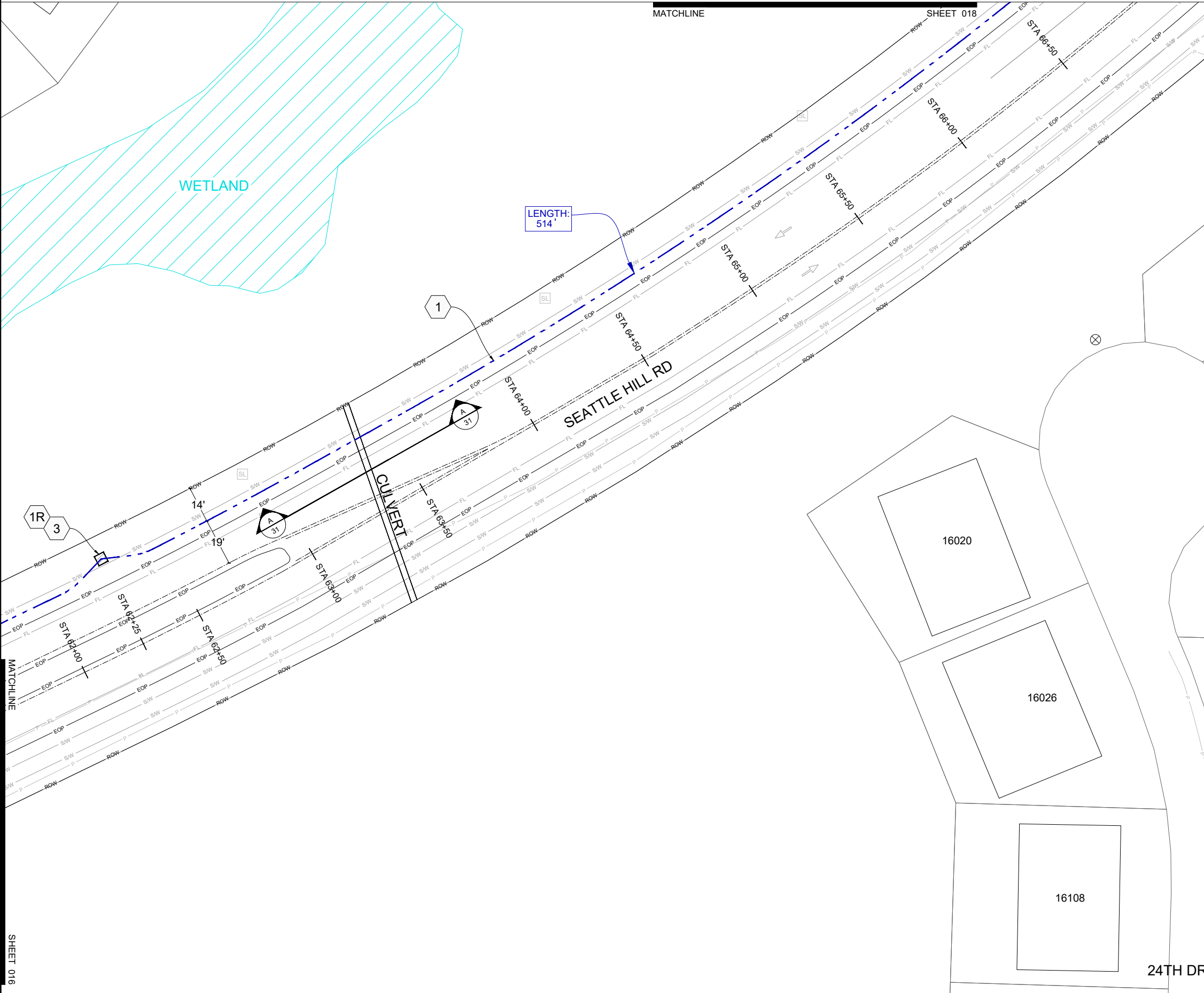


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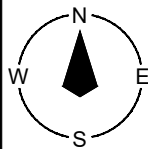
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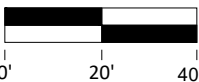
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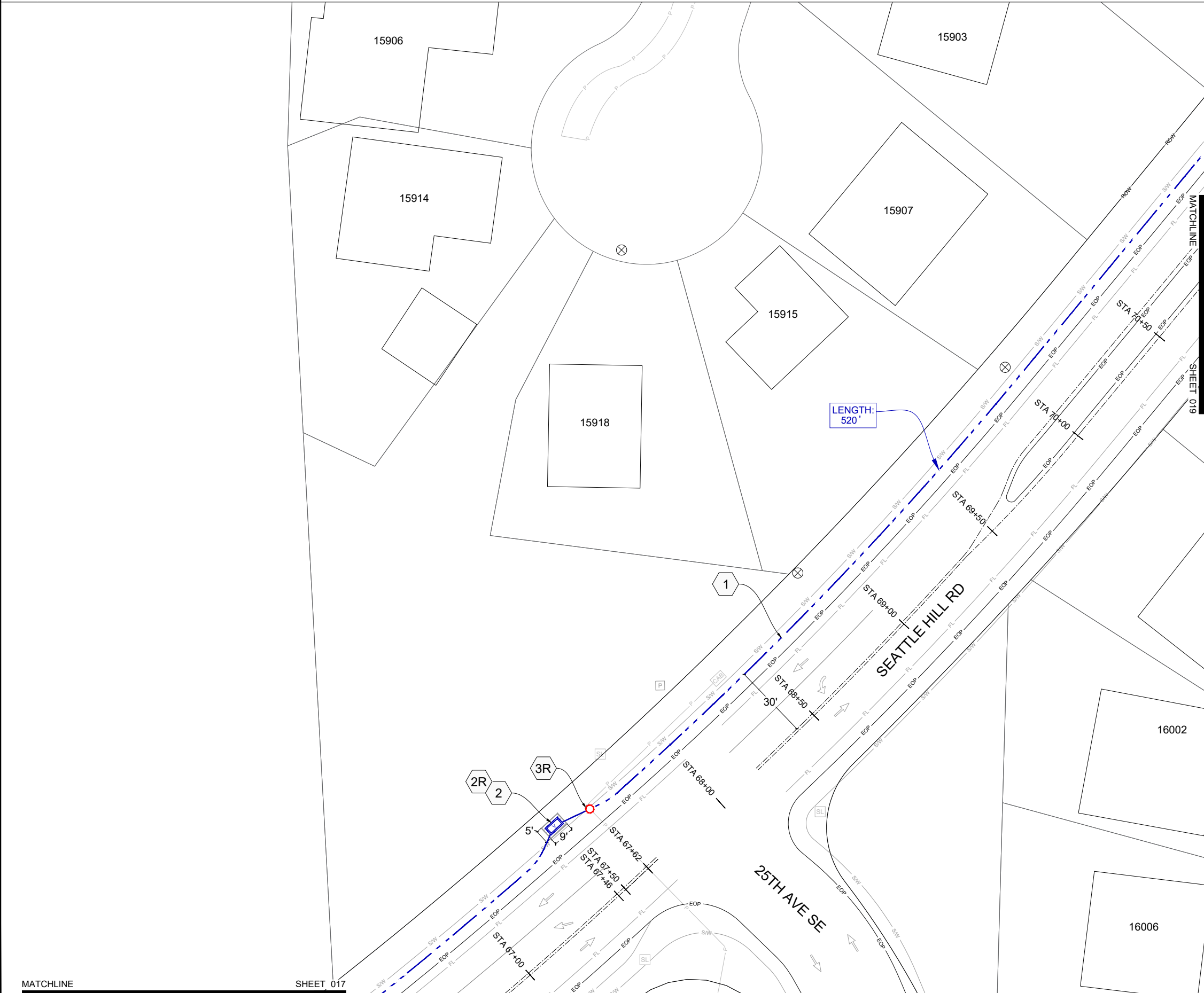
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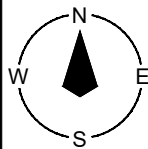
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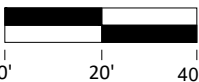
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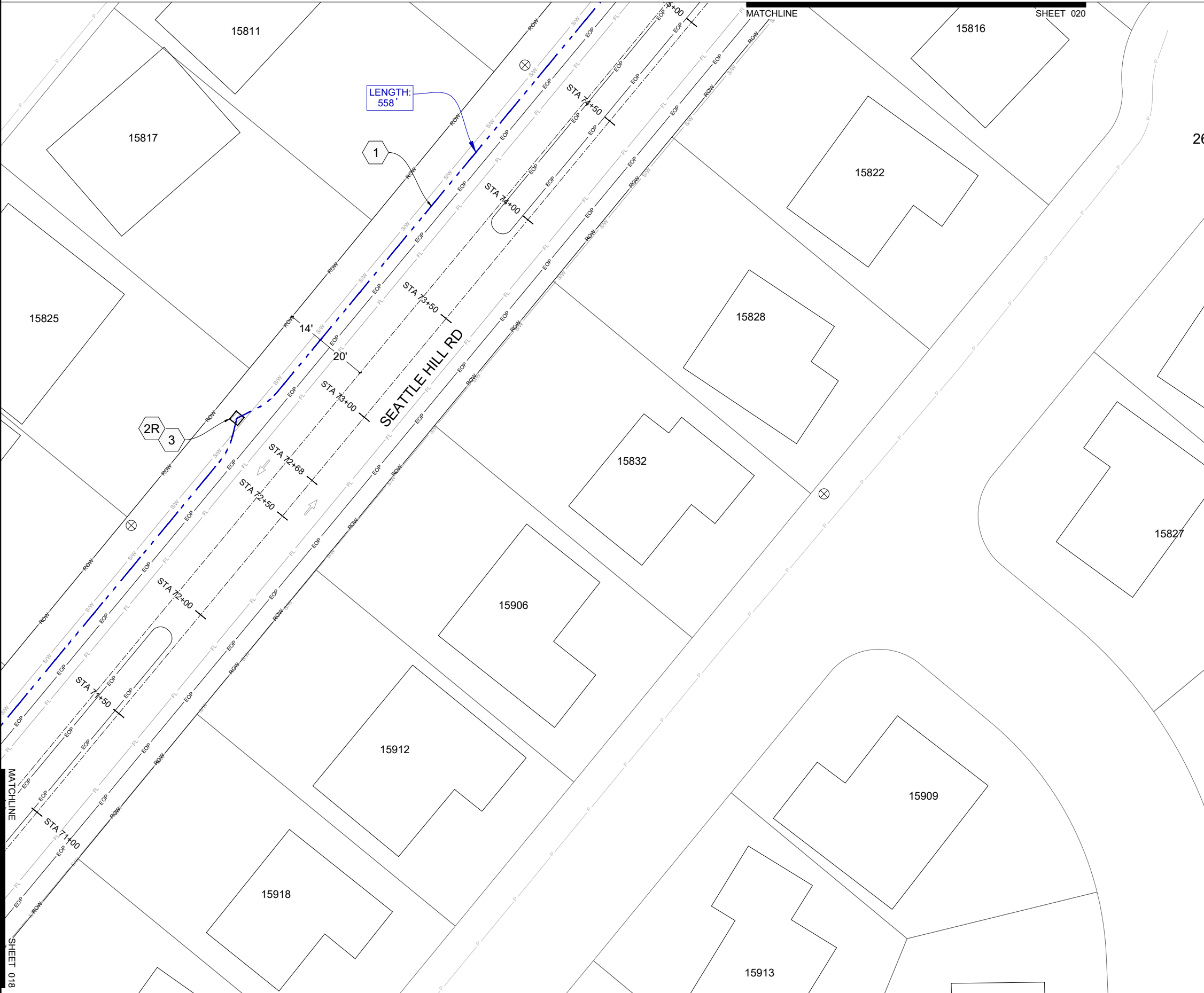


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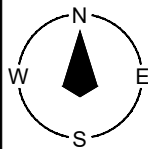
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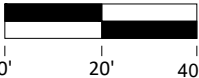
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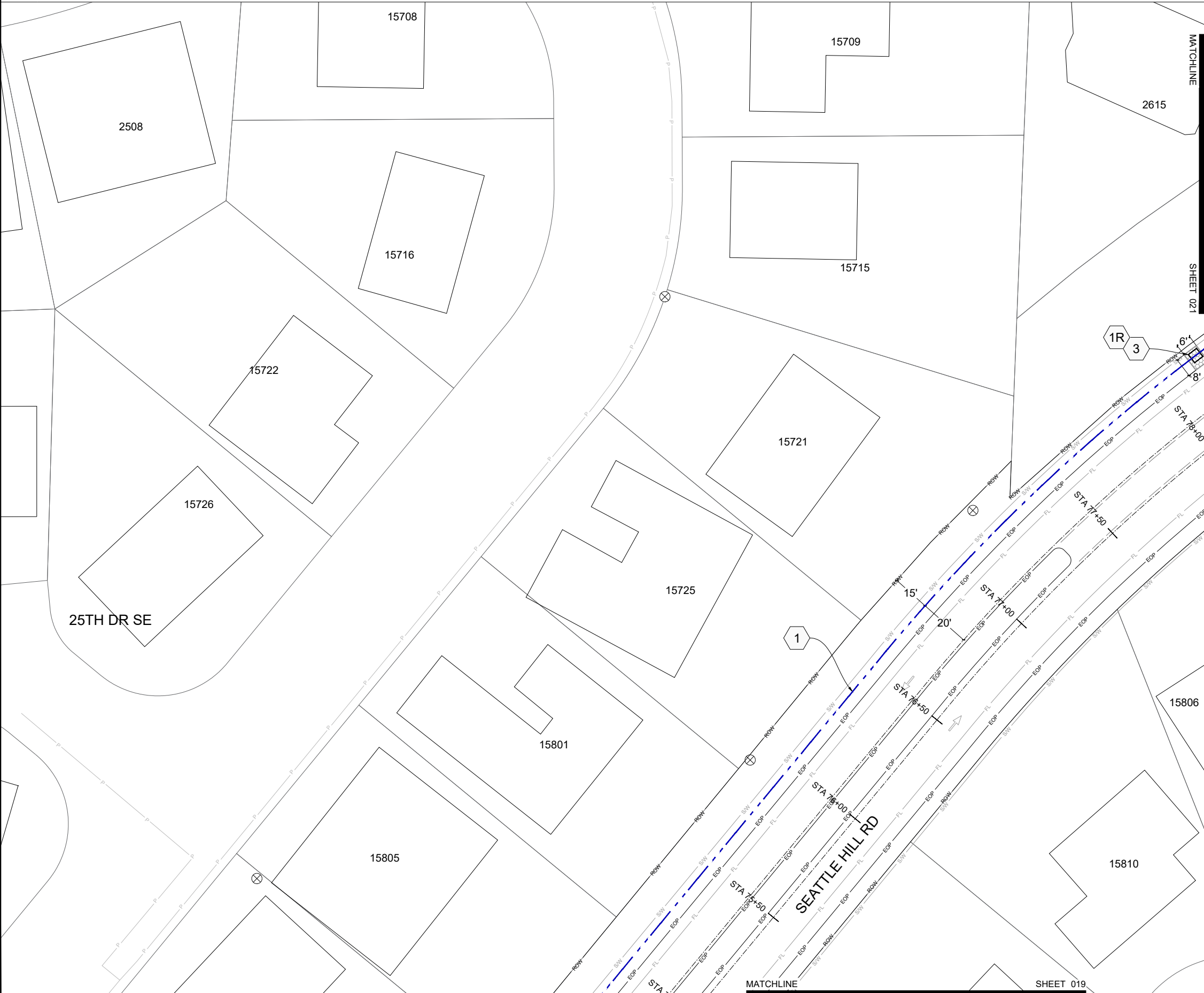


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CONSTRUCTION NOTES:

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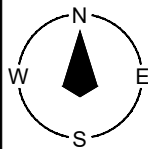
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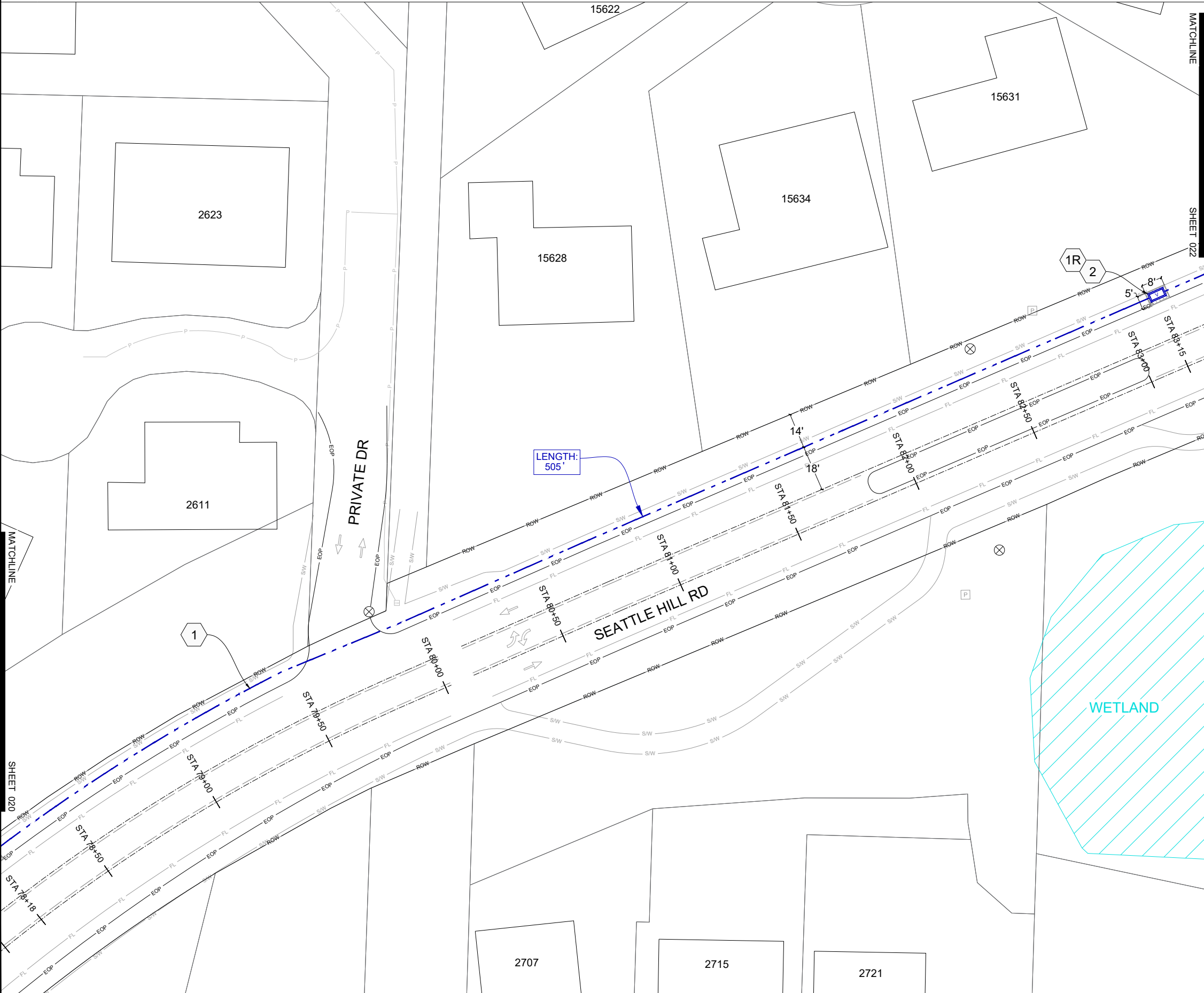
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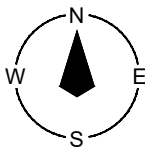
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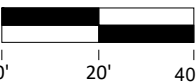
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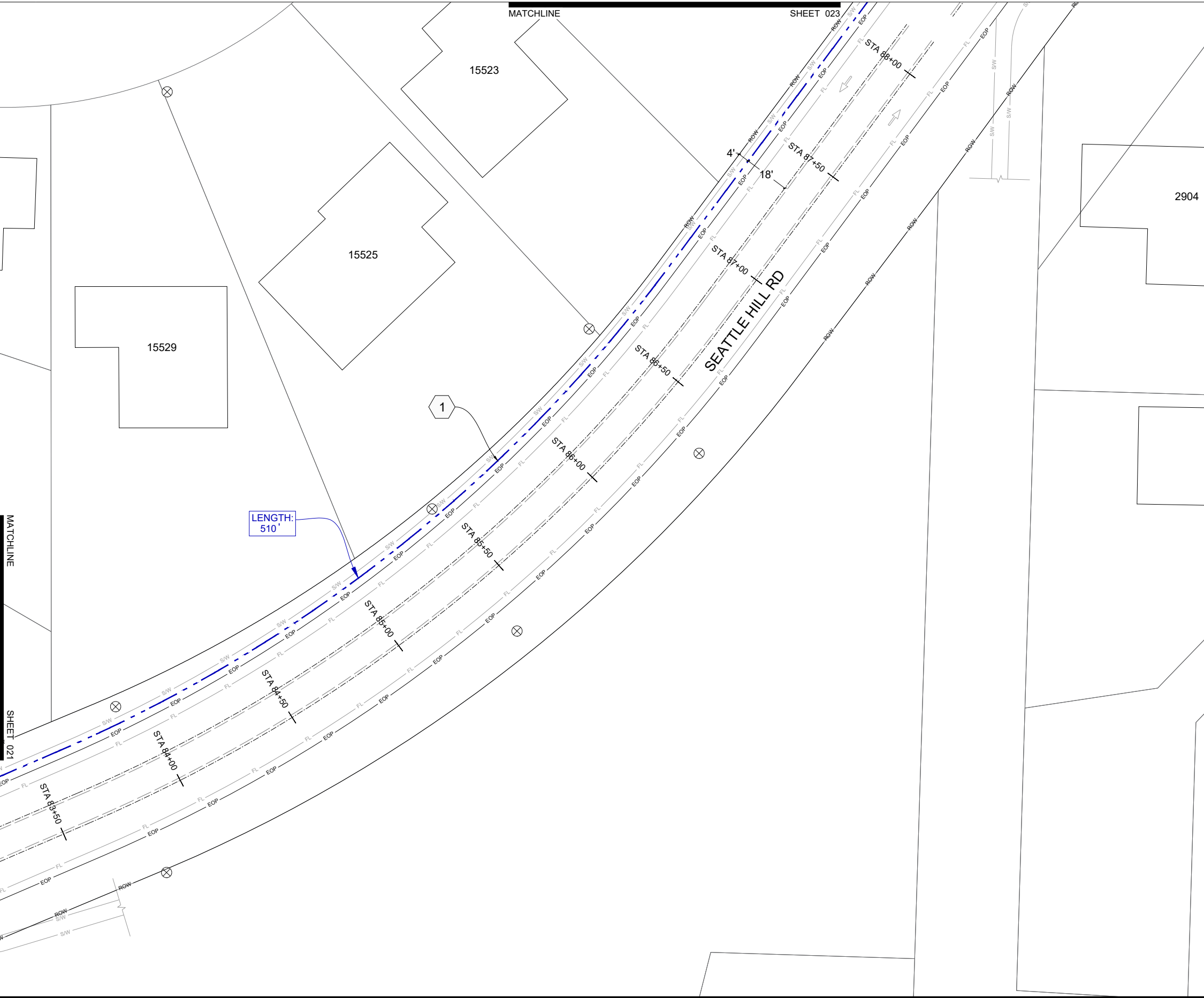


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LOCATION



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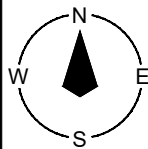
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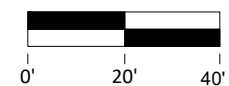
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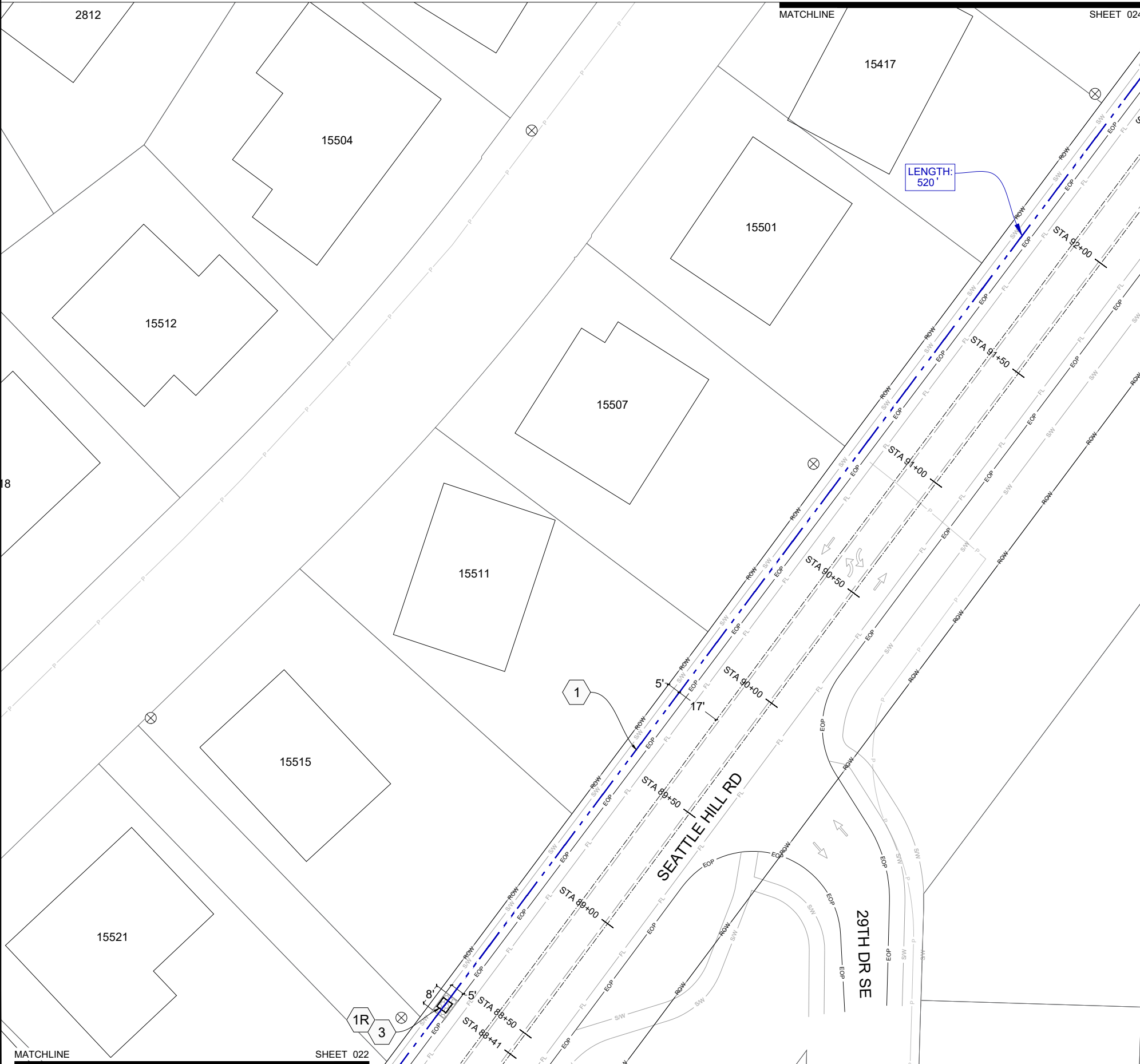


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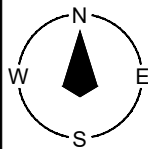
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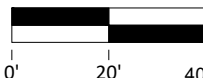
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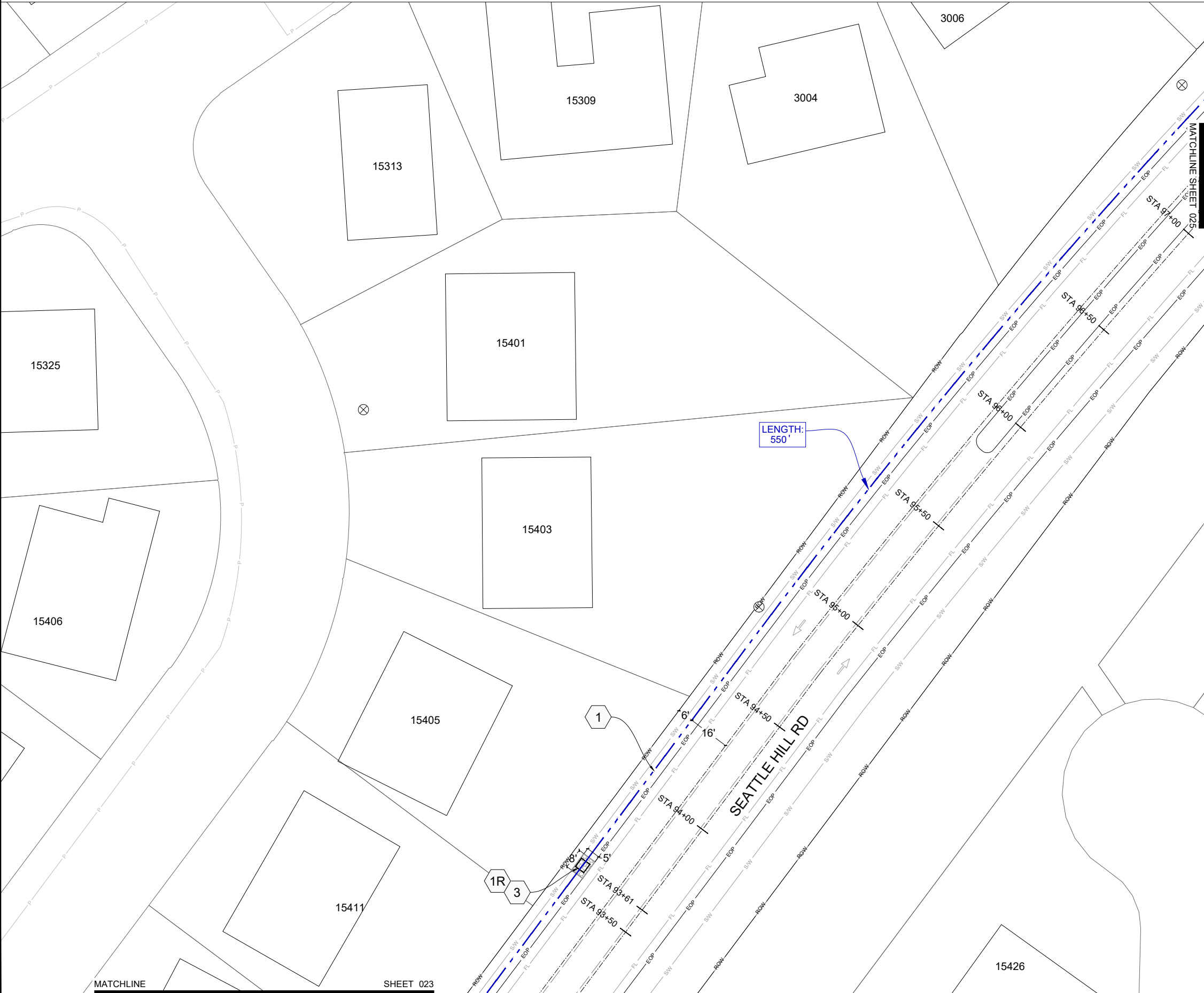


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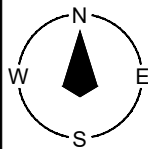
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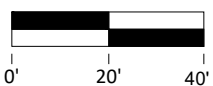
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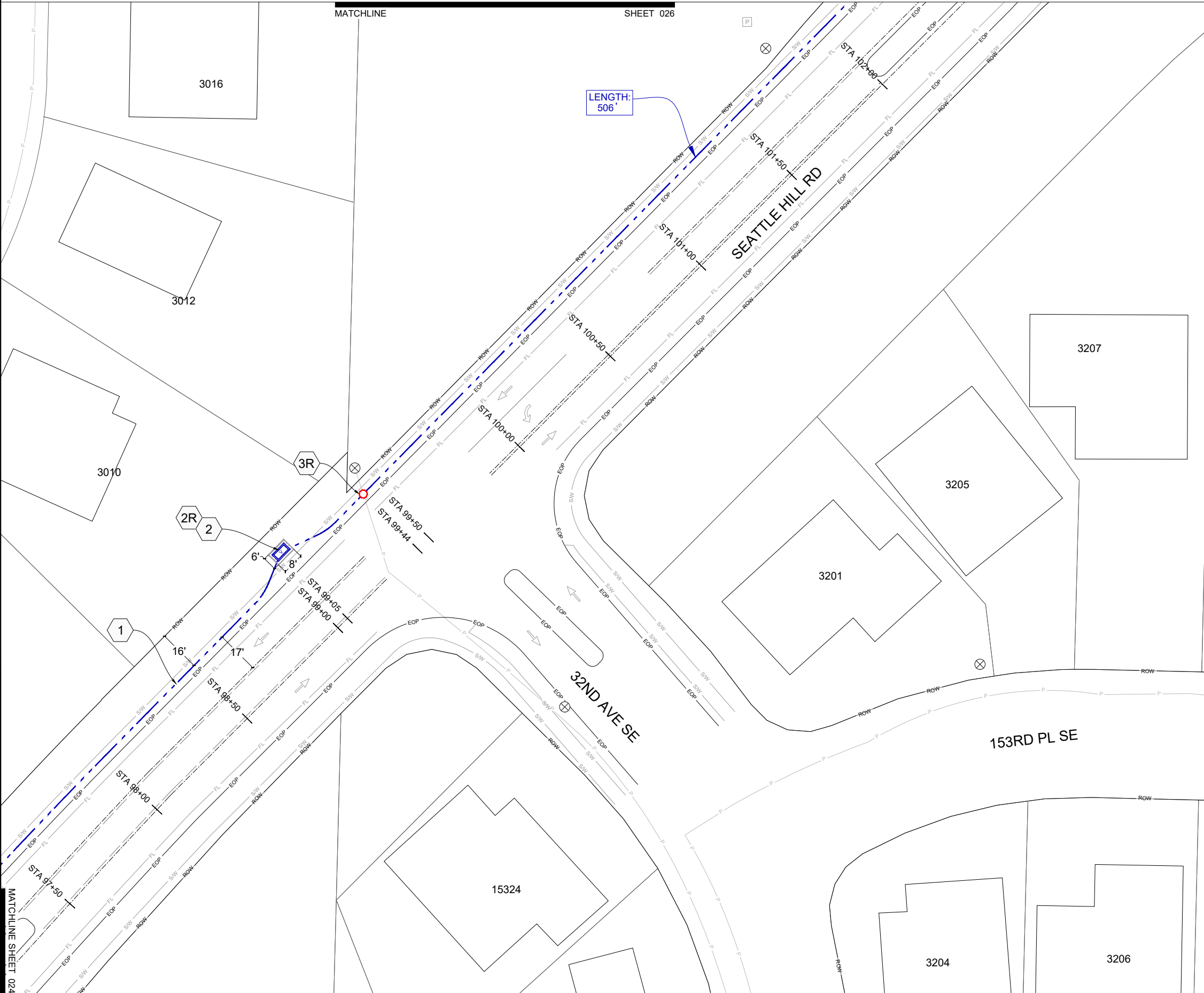


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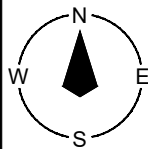
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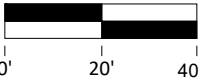
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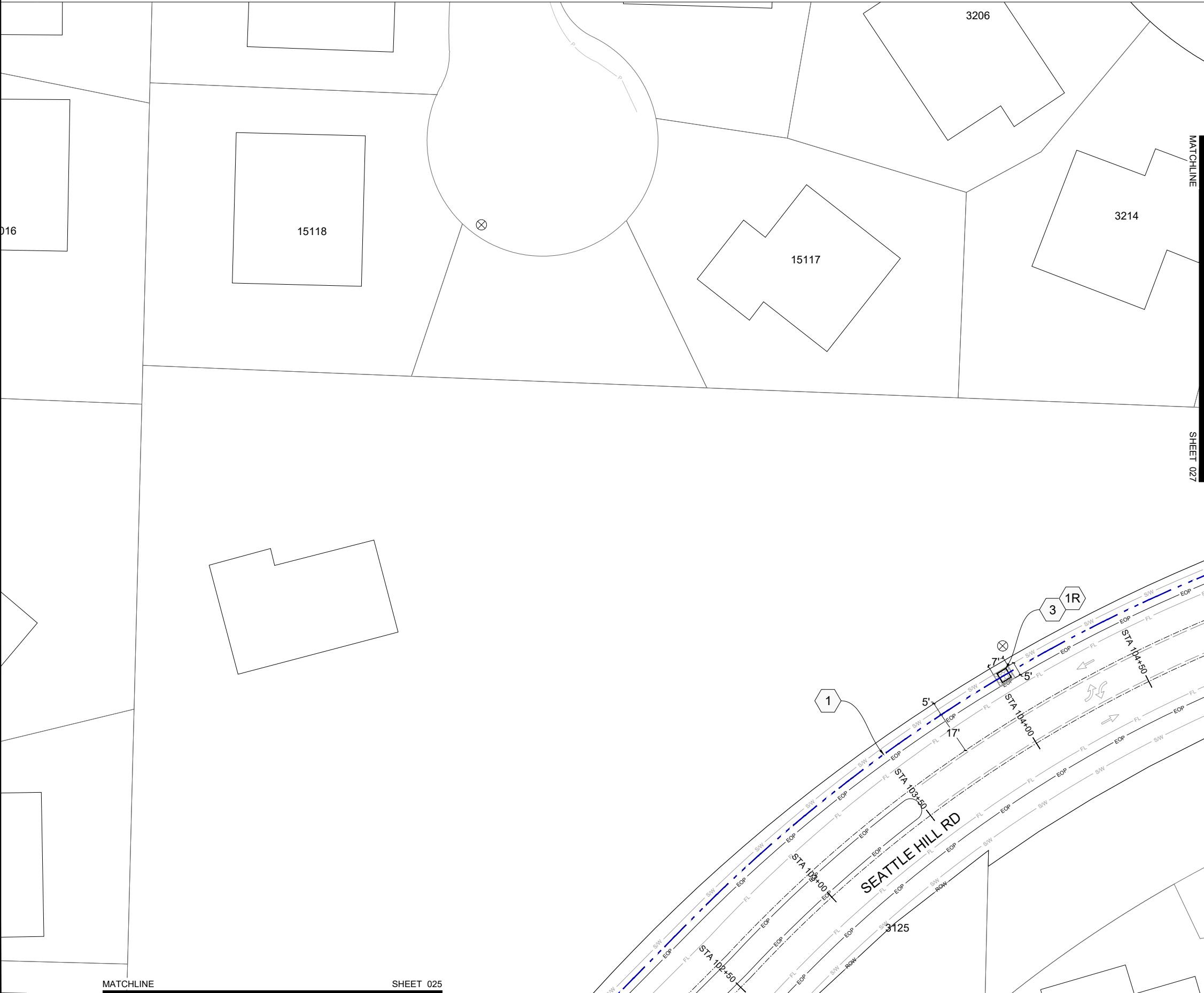


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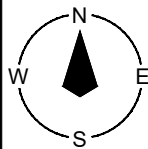
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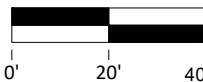
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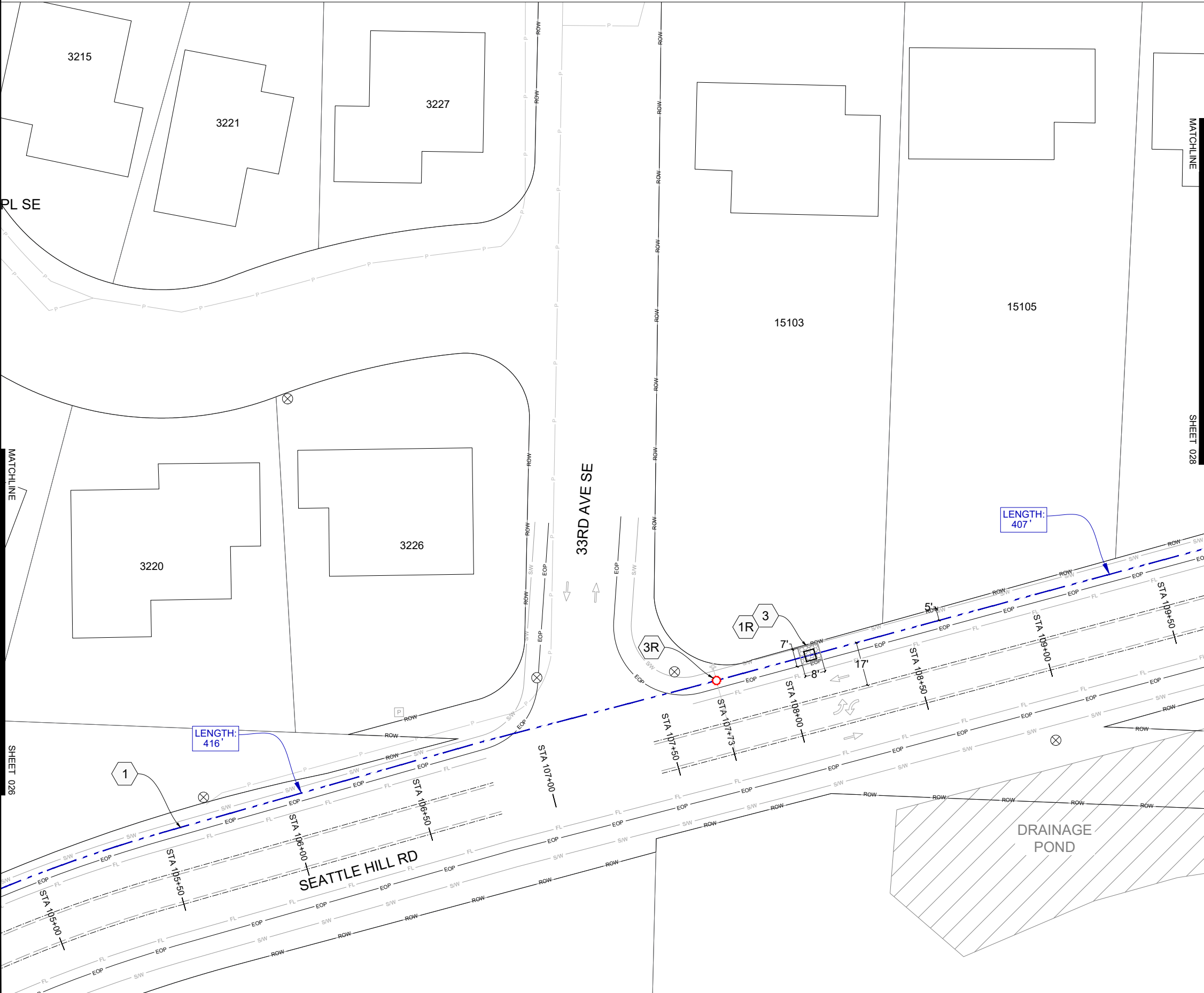


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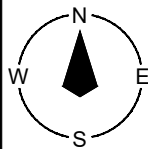
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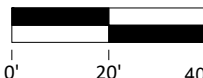
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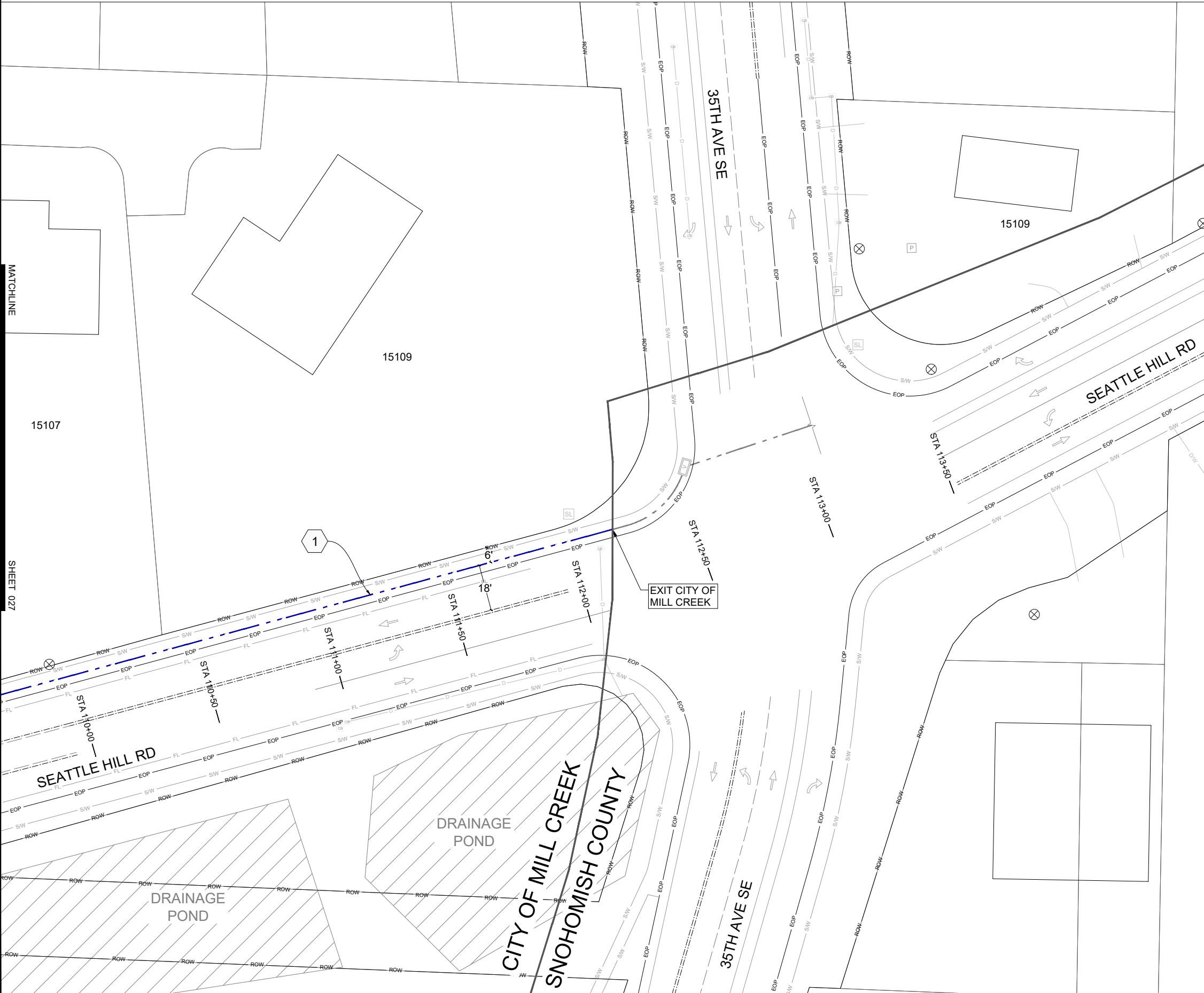


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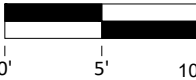
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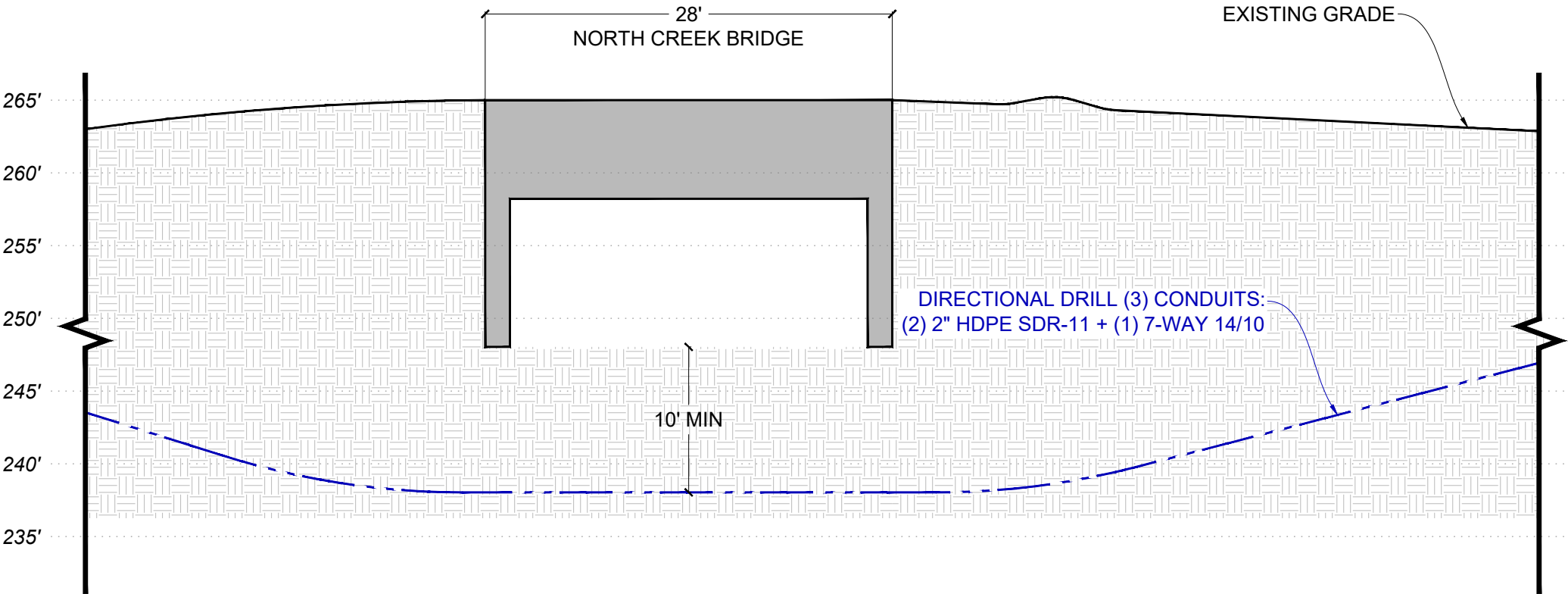
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BT

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PROFILE 29A



IIG LONGHAUL - MILL CREEK

R5E T27N S6 & S5

Connecting The Future Since 1985



SAFETY | QUALITY | INTEGRITY | TEAMWORK

Client:



Project No.

25-157

Permit No.

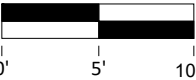
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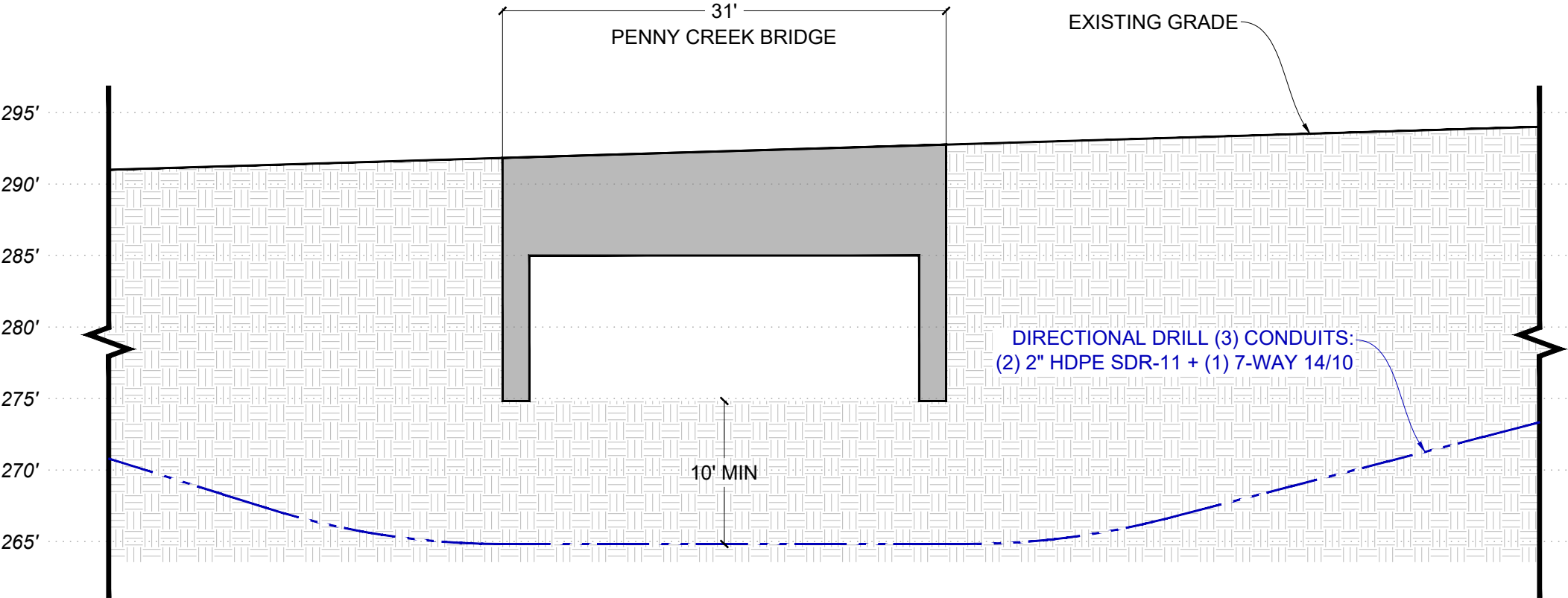
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Sheet No.

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PROFILE 30A



IIG LONGHAUL - MILL CREEK

R5E T27N S6 & S5

Connecting The Future Since 1985



SAFETY | QUALITY | INTEGRITY | TEAMWORK

Client:



Project No.

25-157

Permit No.

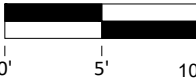
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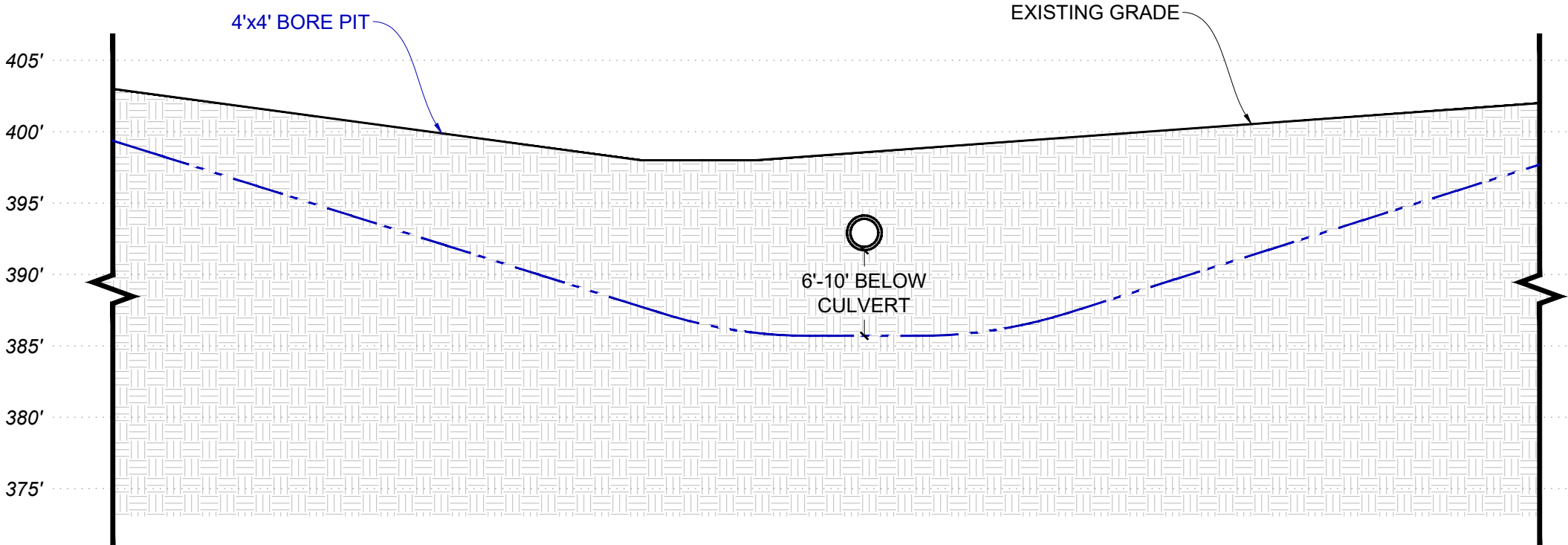
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Sheet No.

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PROFILE 31A



Connecting The Future Since 1985



SAFETY | QUALITY | INTEGRITY | TEAMWORK

Client:



Project No.

25-157

Permit No.

Revisions:

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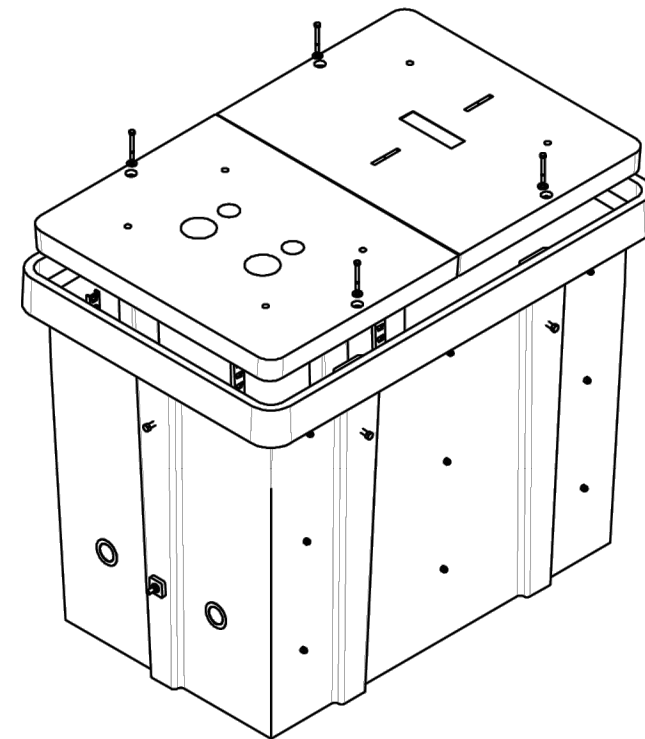
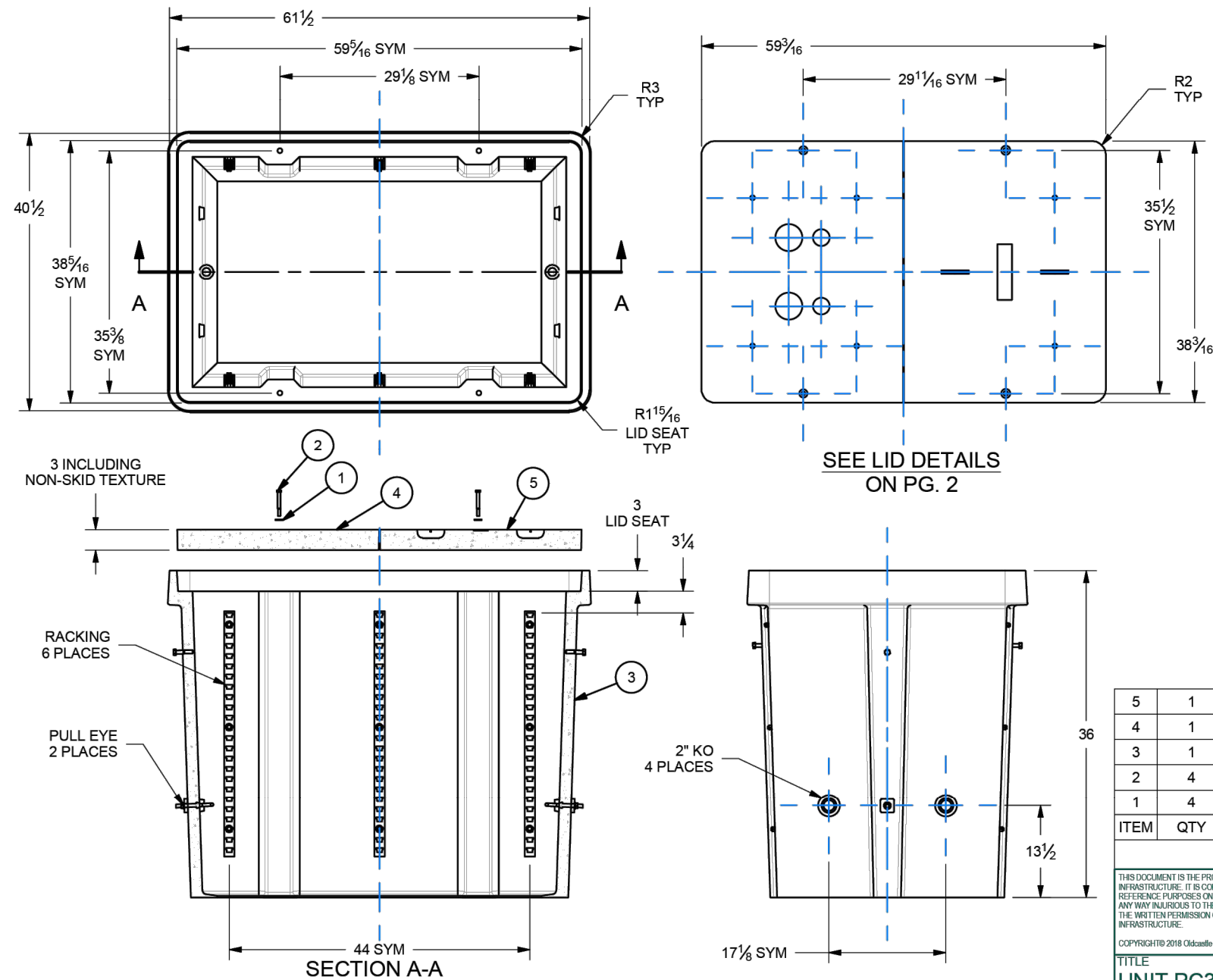
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MATERIAL PROPERTIES

THE FOLLOWING MATERIAL PROPERTIES FOR POLYMER CONCRETE PRODUCTS WERE ESTABLISHED THROUGH INDEPENDENT THIRD PARTY TESTING:

COMPRESSIVE STRENGTH	ASTM C 579	> 12,500 PSI
FLEXURAL STRENGTH	ASTM D 790	> 3,000 PSI
MODULUS OF RUPTURE	ASTM C 99	≥ 3,000 PSI
WATER ABSORPTION	ASTM C 97	≤ 0.25%
IMPACT RESISTANCE	ASTM D 2444	> 70 FT-LB
FRICTION COEFFICIENT	ASTM C 1028	> 0.5
CHEMICAL RESISTANCE	ASTM D 543	RESISTANT, > 75% RETENTION
PHYSICAL PROPERTIES		

THIS UNIT (BODY & LID) MEETS OR EXCEEDS THE REQUIREMENTS OF SCTE 77-2013, TIER-15.



5	1	36607011	Lid, PC3660, T15 - 1/2lid Marking plate req
4	1	36607012	Lid, PC 3660 -1/2lid - B10702-00-001 Cabinet
3	1	36602010	Body, PC3660-36 T22 SW
2	4	HBT-H78	Bolt, Hex, Inox. 1/2 x 3
1	4	HWH-F11	WASHER, FLAT, SST - .531 ID X 1.062 OD X .095 THK
ITEM	QTY	SKU	DESCRIPTION

**** PARTS LIST ****

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A CRH COMPANY

TITLE	UNIT PC3660-36 SW T15 WITH PAD MOUNT, RACKING, AND PULL EYE - SOUTHSTAR
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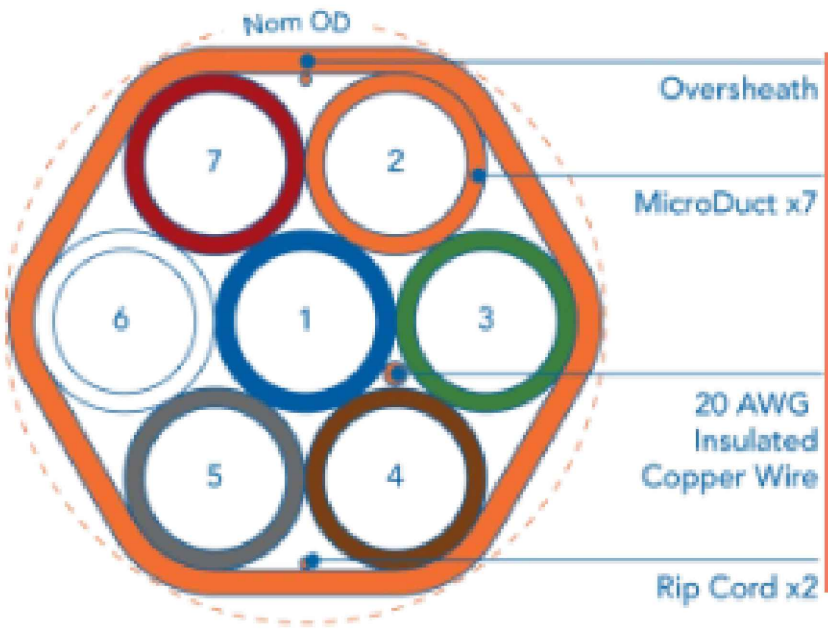
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RNUNES	12/31/2018	A	36601405	
CHECKED		SCALE	1/25	
AGARCIA	12/31/2018			SHEET 1 OF

SHEET 1 OF 2

1 CUSTOMER FORMAT DRAWING

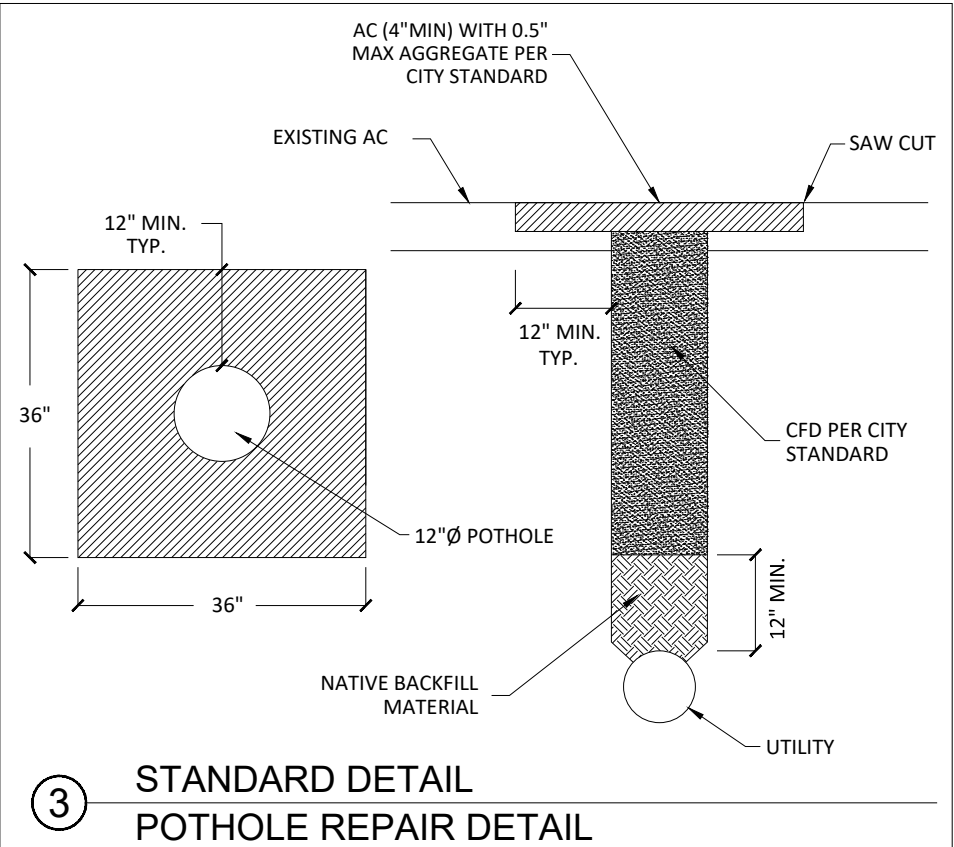
TOTAL EST. UNIT WEIGHT: 1215 LBS
EST. LID WEIGHT: 480 LBS | EST. BODY WEIGHT: 735 LBS

IIG LONGHAUL - MILL CREEK
R5E T27N S6 & S5



MicroDuct OD/ID	14/10 mm
Nominal OD	1.77 in
MicroDuct Min ID	10 mm
Oversheath	0.05 in
Weight	0.465 lb/ft
Bend Radius Sup	18 in
Bend Radius UnSup	35 in
Conduit SWPS	2474 lbs

② BUNDLED MICRODUCT DETAIL
"FUTUREPATH" 7-WAY 14/10mm



③ STANDARD DETAIL
POTHOLE REPAIR DETAIL

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Client:



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25-157

Permit No.

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DETAILS

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