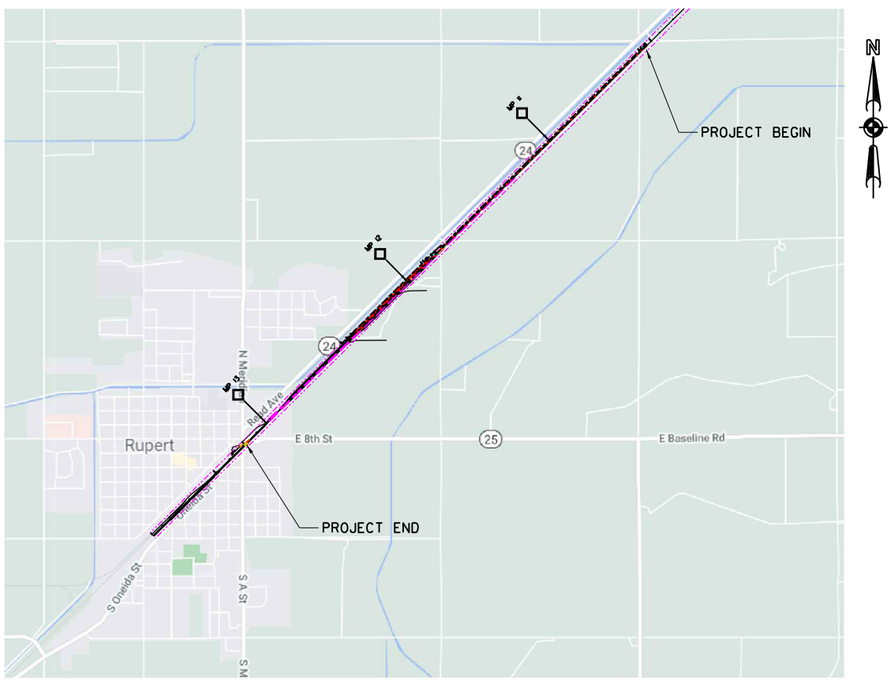
WATCO

EIRR TRACK EXPANSION



VICINITY MAP
NOT TO SCALE

WATCO

EASTERN RAILROAD IDAHO

100% SUBMITTAL

DATE: 2/22/2022
MP: MP 10.32 TO MP 13.15

CONCURRENCE SIGNATURE SHEET FOR CONFIGURATION ONLY

Name Darin Price

Title Eastern Idaho Railroad - General Manager

Signature

Representing Watco

Date

Name

Title

Signature

Representing Idaho Transportation Department

Date

Name

Title

Signature

Representing Federal Railroad Administration

Date

Name

Title

Signature

Representing

Date

Disclaimer:
All parties signing this sheet have reviewed these plans and no exceptions are taken with regard to their ability to use the project as intended. Individual parties have not reviewed the design details or calculations for structural integrity or engineering accuracy. The parties accept no responsibility for errors or omissions in the design of the project.

REV	DATE	DESCRIPTION	BY / SUB	APP

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DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
COVER

CONTRACT NO.	19.192
DRAWING NO.	CK-01
REVISION	
SHEET NO.	001
SCALE	AS SHOWN

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DRAWING NUMBER	DRAWING TITLE	SHEET NUMBER
	GENERAL	
CK-01	COVER SHEET	001
CK-02	INDEX OF DRAWINGS - SHEET 01 OF 01	002
CK-03	GENERAL NOTES	003
CK-04	ABBREVIATIONS & SYMBOLS	004
	SURVEY	
CK-05	KEY MAP & SURVEY CONTROL	005
	TRACKWORK	
RC-01	TYPICAL SECTION - SHEET 01 OF 01 (TRACK)	006
RP-01	TRACK 140 PLAN & PROFILE - SHEET 01 OF 08 STA 0+00 TO STA 13+00	007
RP-02	TRACK 140 PLAN & PROFILE - SHEET 02 OF 08 STA 13+00 TO STA 28+00	008
RP-03	TRACK 140 PLAN & PROFILE - SHEET 03 OF 08 STA 28+00 TO STA 43+00	009
RP-04	TRACK 140 PLAN & PROFILE - SHEET 04 OF 08 STA 43+00 TO STA 58+00	010
RP-05	TRACK 140 PLAN & PROFILE - SHEET 05 OF 08 STA 58+00 TO STA 73+00	011
RP-06	TRACK 140 PLAN & PROFILE - SHEET 06 OF 08 STA 73+00 TO STA 88+00	012
RP-07	TRACK 140 PLAN & PROFILE - SHEET 07 OF 08 STA 88+00 TO STA 103+00	013
RP-08	TRACK 140 PLAN & PROFILE - SHEET 08 OF 08 STA 103+00 TO STA 663+00	014
RP-09	MAIN TRACK PLAN & PROFILE - SHEET 09 OF 08 STA $PP010A$TO STA 686+40	015
XING-01	ROAD CROSSING REMOVAL PLAN - SHEET 01 OF 01	016
RT-01	TRACK GEOMETRY DATA - SHEET 01 OF 02	017
RT-02	TRACK GEOMETRY DATA - SHEET 02 OF 02	018
	EARTHWORK (TRACK - BASED OFF EX. MAINLINE)	
RX-01	CROSS-SECTIONS - 01 OF 40 - STA 543+00 TO STA 545+50	019
RX-02	CROSS-SECTIONS - 02 OF 40 - STA 546+00 TO STA 548+50	020
RX-03	CROSS-SECTIONS - 03 OF 40 - STA 549+00 TO STA 551+50	021
RX-04	CROSS-SECTIONS - 04 OF 40 - STA 552+00 TO STA 554+50	022
RX-05	CROSS-SECTIONS - 05 OF 40 - STA 555+00 TO STA 557+50	023
RX-06	CROSS-SECTIONS - 06 OF 40 - STA 558+00 TO STA 560+50	024
RX-07	CROSS-SECTIONS - 07 OF 40 - STA 561+00 TO STA 563+50	025
RX-08	CROSS-SECTIONS - 08 OF 40 - STA 564+00 TO STA 566+50	026
RX-09	CROSS-SECTIONS - 09 OF 40 - STA 567+00 TO STA 569+50	027
RX-10	CROSS-SECTIONS - 10 OF 40 - STA 570+00 TO STA 572+50	028
RX-11	CROSS-SECTIONS - 11 OF 40 - STA 573+00 TO STA 575+50	029
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RX-14	CROSS-SECTIONS - 14 OF 40 - STA 582+00 TO STA 584+50	032
RX-15	CROSS-SECTIONS - 15 OF 40 - STA 585+00 TO STA 587+50	033
RX-16	CROSS-SECTIONS - 16 OF 40 - STA 588+00 TO STA 590+50	034
RX-17	CROSS-SECTIONS - 17 OF 40 - STA 591+00 TO STA 593+50	035
RX-18	CROSS-SECTIONS - 18 OF 40 - STA 594+00 TO STA 596+50	036
RX-19	CROSS-SECTIONS - 19 OF 40 - STA 597+00 TO STA 599+50	037
RX-20	CROSS-SECTIONS - 20 OF 40 - STA 600+00 TO STA 602+50	038
RX-21	CROSS-SECTIONS - 21 OF 40 - STA 603+00 TO STA 605+50	039
RX-22	CROSS-SECTIONS - 22 OF 40 - STA 606+00 TO STA 608+50	040
RX-23	CROSS-SECTIONS - 23 OF 40 - STA 609+00 TO STA 611+50	041
RX-24	CROSS-SECTIONS - 24 OF 40 - STA 612+00 TO STA 614+50	042
RX-25	CROSS-SECTIONS - 25 OF 40 - STA 615+00 TO STA 617+50	043
RX-26	CROSS-SECTIONS - 26 OF 40 - STA 618+00 TO STA 620+50	044
RX-27	CROSS-SECTIONS - 27 OF 40 - STA 621+00 TO STA 623+50	045
RX-28	CROSS-SECTIONS - 28 OF 40 - STA 624+00 TO STA 626+50	046
RX-29	CROSS-SECTIONS - 29 OF 40 - STA 627+00 TO STA 629+50	047
RX-30	CROSS-SECTIONS - 30 OF 40 - STA 630+00 TO STA 632+50	048
RX-31	CROSS-SECTIONS - 31 OF 40 - STA 633+00 TO STA 635+50	049
RX-32	CROSS-SECTIONS - 32 OF 40 - STA 636+00 TO STA 638+50	050
RX-33	CROSS-SECTIONS - 33 OF 40 - STA 639+00 TO STA 641+50	051
RX-34	CROSS-SECTIONS - 34 OF 40 - STA 642+00 TO STA 644+50	052
RX-35	CROSS-SECTIONS - 35 OF 40 - STA 645+00 TO STA 647+50	053
RX-36	CROSS-SECTIONS - 36 OF 40 - STA 648+00 TO STA 650+50	054
RX-37	CROSS-SECTIONS - 37 OF 40 - STA 651+00 TO STA 653+50	055
RX-38	CROSS-SECTIONS - 38 OF 40 - STA 654+00 TO STA 656+50	056
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RX-40	CROSS-SECTIONS - CULVERT SECTIONS	058

DRAWING NUMBER	DRAWING TITLE	SHEET NUMBER
	GRADING AND DRAINAGE PLAN	
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GR-01	GRADING, DRAINAGE, & STAKING PLAN - SHEET 02 OF 07	060
GR-02	GRADING, DRAINAGE, & STAKING PLAN - SHEET 03 OF 07	061
GR-03	GRADING, DRAINAGE, & STAKING PLAN - SHEET 04 OF 07	062
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GR-05	GRADING AND DRAINAGE DETAILS - SHEET 06 OF 07	064
GR-06	STAKING DATA CHARTS DETAILS - SHEET 07 OF 07	065
	EROSION CONTROL PLAN	
EC-01	EROSION CONTROL PLAN - SHEET 01 OF 04	066
EC-02	EROSION CONTROL PLAN - SHEET 02 OF 04	067
EC-03	EROSION CONTROL PLAN - SHEET 03 OF 04	068
EC-04	EROSION CONTROL PLAN - SHEET 04 OF 04	069
	STANDARD DETAILS	
	WATCO STANDARD - TURNOUTS	
	BNSF STANDARD - TURNOUT PAD	
	ITD BMP - SILT FENCE & CHECK DAMS	
	ITD BMP - STABILIZED CONSTRUCTION ENTRANCE	
	ITD - RAILROAD GRADE CROSSING SIGNAL TYPE 1	
	CONSTRUCTION SUPPORT DOCUMENTS	
	CONSTRUCTION SCHEDULE	
	COST ESTIMATE	

DRAWING NUMBER	DRAWING TITLE	SHEET NUMBER

REV	DATE	DESCRIPTION	BY	SUB	APP

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DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
INDEX OF DRAWINGS
SHEET 01 OF 01

CONTRACT NO. 19.192
DRAWING NO. CK-02
REVISION
SHEET NO. 002
SCALE NONE

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1. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS AND THE SPECIFICATIONS FOR THIS CONTRACT.

2. ALL CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED AND COORDINATED THROUGH THE ENGINEER, INCLUDING THE VARIOUS COMPANIES, AGENCIES AND OTHER CONTRACTORS WHO MAY BE AFFECTED BY THIS WORK. ALL REQUIRED PERMITS INCLUDING RAILROAD RIGHT-OF-ENTRY PERMITS NEEDED FOR THE WORK SHALL BE OBTAINED BY THE CONTRACTOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL COMPLY WITH ALL RAILROAD OCCUPANCY REQUIREMENTS INCLUDING INSURANCE REQUIREMENTS.

3. HORIZONTAL AND VERTICAL CONTROL POINTS FOR THE TRACK LAYOUT ARE IDENTIFIED IN THE CONTRACT DOCUMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THESE CONTROL POINTS TO ASSURE THAT ALL FACILITIES INCLUDED IN THIS PROJECT ARE CONSTRUCTED AT THE CORRECT VERTICAL AND HORIZONTAL LOCATIONS.

4. TRACK CONTRACTOR WILL CONSTRUCT ALL TRACKWORK. TRACKWORK DONE BY TRACK CONTRACTOR WILL INCLUDE ALL MATERIAL FROM THE TOP OF THE SUBBALLAST AND UP. THE GRADING CONTRACTOR IS RESPONSIBLE FOR ALL GRADING WORK WHICH CONSISTS OF SUBGRADE PREPARATION AND PLACEMENT OF SUBBALLAST TO THE GRADES INDICATED IN THE PLANS.

5. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION TO PREVENT PONDING OF WATER.

6. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF IDAHO NPDES PERMIT REGARDING THE TREATMENT OF WATER BEFORE DISCHARGING OFF OF RAILROAD R/W.

7. CONTRACTOR MAY BE REQUESTED TO SUBMIT A CONSTRUCTION PHASING PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ANY MODIFICATIONS TO THIS PHASING PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

8. LIMITS OF GRADING AS SHOWN ON THE PLANS ARE APPROXIMATE. WHERE LIMIT OF GRADING IS ADJACENT TO A BRIDGE, CROSSING, OR OTHER FACILITY, GRADING SHALL PROVIDE FOR A CONTINUOUS GRADE SO THAT THE RAILROAD CAN SUBSEQUENTLY LAY TRACK WITH NO ADDITIONAL GRADING WORK.

9. A IDAHO ONE CALL IDENTIFICATION NUMBER SHALL BE ISSUED BEFORE A "PERMIT TO EXCAVATE" IS VALID. THE CONTRACTOR SHALL CALL THE IDAHO ONE CALL THREE WORKING DAYS PRIOR TO CONSTRUCTION TO OBTAIN A IDAHO ONE CALL ID NUMBER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING UTILITIES.

10. THE CONTRACTOR SHALL BECOME FAMILIAR WITH LEGISLATION OUTLINING PROCEDURES FOR LOCATING UTILITIES BY HAND EXCAVATION AND COMPLY WITH ITS DIRECTIVE.

11. PRIOR TO EACH CONSTRUCTION ACTIVITY WITHIN RAILROAD RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY RAILROAD SIGNAL REPRESENTATIVE.

12. THE CONTRACTOR SHALL PROTECT ALL RAILROAD SIGNAL FACILITIES IN PLACE.

13. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS FOR CONFLICTS WITH EXISTING UTILITIES, SIGNAL CABLES / EQUIPMENT AND/OR OTHER ITEMS THAT MIGHT IMPAIR CONSTRUCTION ACTIVITIES. INCONSISTENCIES FOUND SHALL BE REPORTED TO THE ENGINEER.

14. REPAIRS TO FACILITIES INTENDED TO REMAIN IN PLACE SHALL BE MADE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE STATED BY THE ENGINEER.

15. PRIOR TO COMMENCING WORK, ALL EXISTING SITE CONDITIONS SHALL BE FIELD VERIFIED WITH THE ENGINEER TO ASCERTAIN THE LIMITS OF WORK ACTIVITIES. THE CONTRACTOR SHALL SUBMIT AND RECEIVE THE ENGINEER'S APPROVAL OF THE CONTRACTORS PROJECT SCHEDULE AND OPERATIONS PLAN. EACH ITEM OF WORK SHALL BE DESCRIBED AND ACCOUNTED FOR IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR FURTHER INFORMATION REGARDING SUBMITTAL REQUIREMENTS.

16. RAIL TRAFFIC DISRUPTIONS SHALL BE KEPT TO A MINIMUM. DISRUPTIONS IN RAIL TRAFFIC THAT MAY BE REQUIRED SHALL BE COORDINATED WITH THE ENGINEER BEFOREHAND. NO WORK SHALL BE COMMENCED WITHOUT THE RAILROAD'S FLAGMAN'S APPROVAL. WORK AFFECTING THE MOVEMENT OF TRAINS WILL BE UNDER THE AUTHORITY AND OVERALL CONTROL OF THE RAILROAD FLAGMAN OR HIS REPRESENTATIVE.

17. THE CONTRACTOR SHALL NOT PLACE MATERIAL AND/OR EQUIPMENT WITHIN 25 FEET OF AN ACTIVE TRACK AT ANY TIME WITHOUT PRIOR APPROVAL OF THE RAILROAD FLAGMAN.

18. EXISTING RAILROAD SIGNAGE (INCLUDING SPEED SIGNS) SHALL BE MAINTAINED DURING THE CONSTRUCTION PERIOD. ALL RAILROAD SIGNAGE SHALL BE FULLY RESTORED UPON COMPLETION OF EACH DAYS WORK IN ACCORDANCE WITH RAILROAD ENGINEERING STANDARDS. PRIOR TO CONSTRUCTION, RAILROAD STANDARD PROJECT NOTICE SIGNS SHALL BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

19. WALKWAYS AND MAINTENANCE ROADS WILL BE CONSTRUCTED PER RAILROAD STANDARDS.

20. DIMENSIONS SHOWN IN PARENTHESES INDICATE APPROXIMATE EXISTING DIMENSIONS. WHERE ELEVATIONS ARE SHOWN IN PARENTHESES AT JOIN LOCATIONS, THE CONTRACTOR SHALL VERIFY THESE ELEVATIONS PRIOR TO CONSTRUCTION AND JOIN FEATURES AT EXISTING ELEVATIONS.

21. ALL EXISTING FENCES ALONG THE RIGHT-OF-WAY SHALL BE PROTECTED IN PLACE, UNLESS NOTED OTHERWISE. AT THE OPTION OF THE CONTRACTOR AND WITH THE APPROVAL OF THE ENGINEER, FENCING MAY BE REMOVED TO FACILITATE CONSTRUCTION; HOWEVER, FENCING MUST BE REPLACED, IN KIND, AND THE CONSTRUCTION SITE MUST REMAIN SECURE AT ALL TIMES.

DEFINITIONS:

A. TRACK OUTAGE: TRACK WHICH IS OUT OF SERVICE FOR A GIVEN PERIOD OF TIME.

B. ACTIVE TRACK: TRACK ON WHICH TRAINS ARE OPERATING AND INTERRUPTION OF SERVICE MAY OCCUR ONLY WITHIN AN APPROVED "WINDOW", AS DEFINED BELOW.

C. FOULED TRACK: TRACK IS FOULED WHEN AN OBSTRUCTION INCLUDING A WORKING CREW, IS WITHIN 4 FEET FROM THE NEAREST RAIL OR WHEN AN OVERHEAD OBSTRUCTION IS PLACED WITHIN 22'-6" ABOVE THE TOP OF RAIL. WORK MAY BE PERFORMED UNDER THE PROTECTION OF A RAILROAD FLAGMAN.

D. WINDOW: A GIVEN PERIOD OF TIME BETWEEN OPERATING TRAINS WHERE A TRACK MAY BE TAKEN OUT OF SERVICE, WITH THE STIPULATION THAT THE TRACK SHALL BE BACK IN SERVICE AT THE END OF THE GIVEN PERIOD OF TIME.

22. IN THE EVENT THE CONTRACTOR, AS THE WORK PROGRESSES, FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITION OR ANY ERRORS IN THE PLANS OR LAYOUTS AS GIVEN BY STAKING OR INSTRUCTIONS IT SHALL BE THE CONTRACTOR'S DUTY TO INFORM THE ENGINEER IN WRITING, AND THE ENGINEER SHALL PROMPTLY ARRANGE CORRECTION THEREOF.

23. THE CONTRACTOR SHALL PROVIDE ALL LAYOUT AND CONSTRUCTION STAKING FOR THE ENTIRE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND PRESERVE ALL STAKES AND OTHER MARKS ESTABLISHED, UNTIL AUTHORIZED TO REMOVE THEM.

24. THE CONTRACTOR SHALL VERIFY THE INVERTS AND LOCATIONS OF ALL EXISTING DRAINAGE FACILITIES, WITHIN THE PROJECT AREA AS DEFINED ON THE CONTRACT DRAWINGS, THAT ARE TO REMAIN AND BE MAINTAINED. EXISTING PIPES AND CULVERTS THAT ARE TO BE MAINTAINED SHALL BE CLEANED AND FLUSHED, AS NECESSARY, TO RESTORE FULL CAPACITY. THIS WORK SHALL BE INCIDENTAL TO OTHER WORK IN THE CONTRACT.

25. PIPES AND CULVERTS TO BE ABANDONED SHALL BE CAPPED OR BULK HEADED AT EACH RESPECTIVE LOCATION AND FILLED. ALL ABANDONED DRAINAGE FACILITIES WILL BE RECORDED ON AS-BUILT DRAWINGS BY THE CONTRACTOR.

26. THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNING MUNICIPALITY AND STATE AGENCY FOR EACH GRADE CROSSING LOCATION AND OBTAIN ALL PERMITS REQUIRED FOR THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION STANDARDS OF THE GOVERNING MUNICIPALITIES AND STATE AGENCY.

27. ON MULTIPLE TRACK GRADE CROSSINGS THE CONTRACTOR SHALL MAINTAIN RAIL TRAFFIC, OVER AT LEAST ONE TRACK, AS DESIGNATED BY WATCO, DURING GRADE CROSSING RECONSTRUCTION.

28. ROADWAY DISRUPTIONS SHALL BE KEPT TO A MINIMUM, AS PRESCRIBED BY THE PERMITTING AGENCY, DURING CONSTRUCTION. ALL LANE CLOSURES AT GRADE CROSSING SHALL BE COORDINATED, BEFOREHAND, WITH THE CITY AND/OR AGENCIES HAVING JURISDICTION. THE ENGINEER SHALL BE KEPT FULLY INFORMED AS TO SUCH REQUESTS FOR CLOSURE.

29. RIGHT-OF-WAY AND PARCEL BOUNDARY INFORMATION REPRESENTED ON THESE DRAWINGS IS BASED ON STATION AND RIGHT-OF-WAY MAPS PROVIDED BY WATCO.

30. UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION. PRIMARY SOURCES OF UTILITY INFORMATION INCLUDE:
   1. WATCO PERMIT AGREEMENT RECORDS
   2. WATCO STATION AND RIGHT-OF-WAY MAPS
   3. DIRECT CONTACT WITH PUBLIC AND PRIVATE UTILITY OWNERS

31. AS INDICATED ON THE DRAWINGS, THE PROJECT SITE IS TRAVERSED BY VARIOUS UNDERGROUND AND OVERHEAD UTILITY LINES, INCLUDING BUT NOT LIMITED TO UNDER-GROUND GAS LINES, UNDERGROUND FIBER OPTIC LINES, UNDERGROUND WATER LINES, UNDERGROUND SEWER LINES, UNDERGROUND STORM WATER LINES, UNDERGROUND SIGNAL LINES, OVERHEAD ELECTRIC LINES, OVERHEAD TELEPHONE LINES AND OVERHEAD FIBER OPTIC LINES. THESE FACILITIES SHALL EITHER REMAIN IN PLACE AND SHALL BE PROTECTED BY THE CONTRACTOR WHILE THE WORK OF THE CONTRACT IS IN PROGRESS, OR BE RELOCATED, MODIFIED OR REMOVED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND AGREEMENTS BETWEEN WATCO AND INDIVIDUAL UTILITY AGENCIES.

32. STANDARD METHODS AND RECORDS AVAILABLE AS OF THE DATE OF THESE DRAWINGS HAVE BEEN UTILIZED TO CONFIRM THE EXISTENCE OF UTILITIES SHOWN ON THESE DRAWINGS. THE INDICATED LOCATIONS OF THESE UTILITIES ARE APPROXIMATE AND MAY NOT BE ACCURATE. THE LOCATION AND DEPTH OF ALL UTILITIES IN THE VICINITY OF NEW CONSTRUCTION IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF CONFLICTS ARE FOUND.

33. THE CONTRACTOR SHALL ENSURE THAT REQUIRED NOTIFICATION IS PROVIDED TO APPROPRIATE UTILITY COMPANIES PRIOR TO EXCAVATION OR OTHER WORK WHICH MAY AFFECT UTILITY COMPANY FACILITIES.

34. ROAD BED (TRACK) EMBANKMENT MATERIAL SHALL BE PLACED IN A MAXIMUM NINE (9) INCH THICK LOOSE LIFTS AND SHALL BE COMBACTED TO 95% OF MAXIMUM DRY DENSITY AT NOT MORE OR LESS THAN ±3% OF OPTIMUM MOISTURE CONTENT PER ASTM D698 (STANDARD PROCTOR). IN CUT SECTIONS, A MINIMUM OF NINE (9) INCHES OF THE SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED IN ACCORDANCE WITH THE FOREGOING. PREPARATION OF THE SUBGRADE SHALL BE SUBSIDIARY TO COMMON EXCAVATION.

35. SUBBALLAST MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING OR EXCEEDING BNSF SUBBALLAST SPEC. 610 MATERIAL & GRADATION SHALL MEET THE REQUIREMENTS OF AREMA CHAPTER 1 PART 2.11.2.5.

36. BALLAST SHALL BE AREMA SIZE 4 (1-1/2" - 3/4") AS A MINIMUM, SHALL BE FREE OF LOAM, DUST AND OTHER FOREIGN PARTICULES.

REV	DATE	DESCRIPTION	BY / SUB	APP

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
GENERAL NOTES

CONTRACT NO. 19.192
DRAWING NO. CK-03
REVISION
SHEET NO. 003
SCALE NONE

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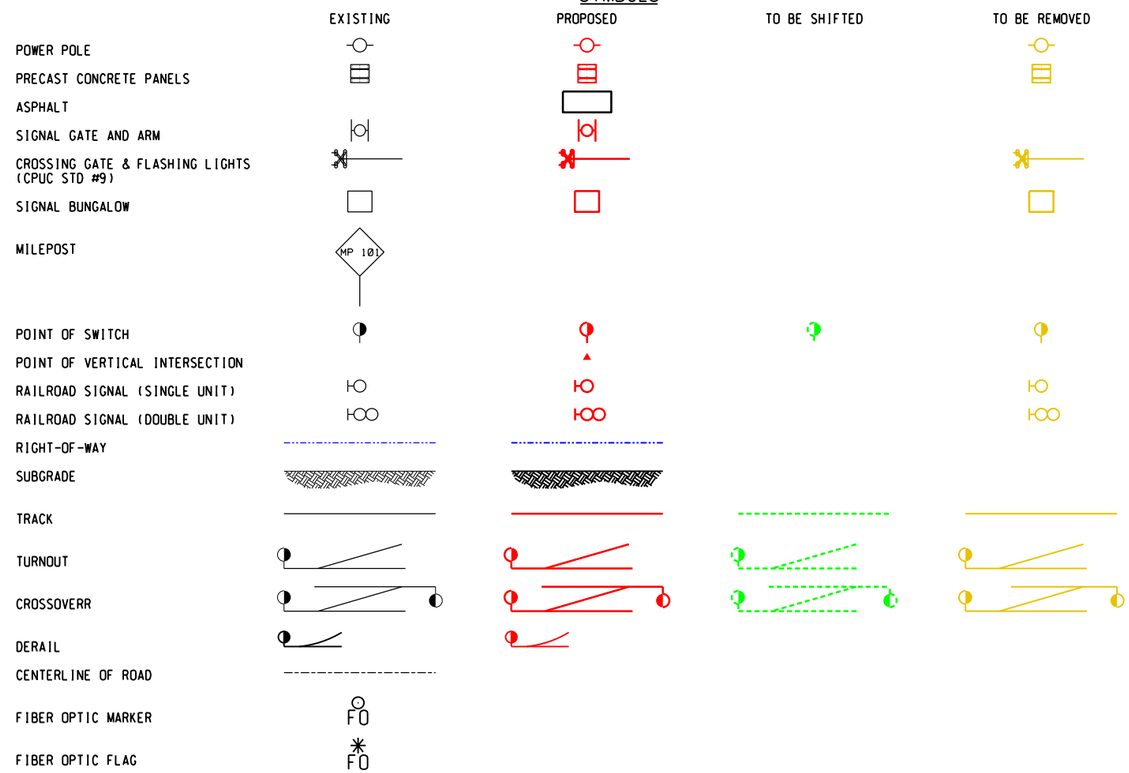
ABBREVIATIONS

&	AND
@	AT
°	DEGREE(S)
'	FOOT or FEET or MINUTE(S)
"	INCH or INCHES or SECOND(S)
%	PERCENT
#	POUND or NUMBER
△	CENTRAL ANGLE OF CIRCULAR CURVE
AC	ASPHALT CONCRETE
AP	ANGLE POINT
APE	AREA OF POTENTIAL EFFECT
APPROX	APPROXIMATELY
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AVE	AVENUE
BC	BEGINNING OF CURVE
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
BM	BENCHMARK
BR	BRIDGE
CB	CATCH BASIN
CC	CENTER OF CURVE
CIP	CAST IRON PIPE OR CAST IN PLACE
C/L OR ℄	CENTERLINE
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
CORR	CORRUGATED
CS	CURVE TO SPIRAL
CT	CONCRETE TIES
DC	DEGREE OF CURVE
DEMO	DEMOLISH
DESC	DESCRIPTION
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
DOT	DEPARTMENT OF TRANSPORTATION
DR	DRIVE
DU	DUCT
DWG	DRAWING
(E)	EXISTING
E	EAST OR EASTERLY or EASTING
Ea	SUPERELEVATION, ACTUAL
EC	END OF CURVE or EDGE OF CONCRETE
EF	EACH FACE
EGL	ENERGY GRADE LINE
EL or ELEV	ELEVATION
EQ	EQUAL or EQUATION
EQNAH	EQUATION AHEAD
EQNBK	EQUATION BACK
EW	EACH WAY
Eu	SUPERELEVATION, UNBALANCED
EX or EXIST	EXISTING
EXMT	EXISTING MAIN TRACK
F	FREIGHT
FH	FIRE HYDRANT
FL	FLOWLINE
FS	FINISHED SURFACE
FT	FOOT or FEET
G	GRADE
G1	GRADE ENTERING VERTICAL CURVE
G2	GRADE EXITING VERTICAL CURVE
ga	GAGE
GB	GRADE BREAK
GM	GAS METER
GRD	GROUND
GV	GAS VALVE
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
HP	HIGH POINT or HIGH PRESSURE
I	TOTAL INTERSECTION ANGLE
IND	INDUSTRY SPUR
INV	INVERT
L	LENGTH
Lc	LENGTH OF CURVE (CIRCULAR)
LF	LINEAR FOOT or LINEAR FEET
LH	LEFT HAND
LP	LOW POINT
Ls or LS	LENGTH OF SPIRAL
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MP	MILEPOST or MEDIUM PRESSURE
MT	MAIN TRACK
MT1	MAIN TRACK 1
MT2	MAIN TRACK 2
MTD	MULTIPLE TILE DUCT
N	NORTH or NORTHERLY or NORTHING
NO	NUMBER or NORTHERN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OP	OVERPASS
OTM	OTHER TRACK MATERIAL
O. TO O.	OUT TO OUT
(P)	PROPOSED
P or PSGR	PASSENGER
PB	PULLBOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVATURE or PORTLAND CEMENT CONCRETE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PIP	PROTECT IN PLACE
PITO	POINT OF INTERSECTION OF TURNOUT
POB	POINT OF BEGINNING
POE	POINT OF ENDING
POT	POINT OF TANGENT
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
P.S. or PS	POINT OF SWITCH
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE or POLYVINYL CHLORIDE (PIPE)
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS or RATE OF CHANGE
RCB	REINFORCED CONCRETE BOX
R/W	RIGHT-OF-WAY
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RH	RIGHT HAND
RPM	RAISED PAVEMENT
RR	RAILROAD
RT	RIGHT
S	SOUTH or SOUTHERLY or SLOPE
SC	SPIRAL TO CURVE
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FOOT or SQUARE FEET
SO	SOUTHERN
SMH or SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
ST	STREET or SPIRAL TO TANGENT
SUB	SUBDIVISION
T	TANGENT
TC	TRACK CENTER(S) or TOP OF CURB
TG	TOP OF GRATE
T.O. or TO	TURNOUT
T/R or TOR	TOP OF RAIL
TF	TRACK FOOT or TRACK FEET
TRK	TRACK
TS	TANGENT TO SPIRAL
TT	TIMBER TRANSITION TIES
TYP	TYPICAL
UD	UNDERDRAIN
UNO	UNLESS NOTED OTHERWISE
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
V	VELOCITY
VAR	VARIES
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WEST or WESTERLY
WM	WATER METER
WV	WATER VALVE
XING	CROSSING
XO	CROSSOVER

SYMBOLS



REV	DATE	DESCRIPTION	BY / SUB	APP

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DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
ABBREVIATIONS & SYMBOLS

CONTRACT NO.	19.192
DRAWING NO.	CK-04
REVISION	
SHEET NO.	004
SCALE	NONE

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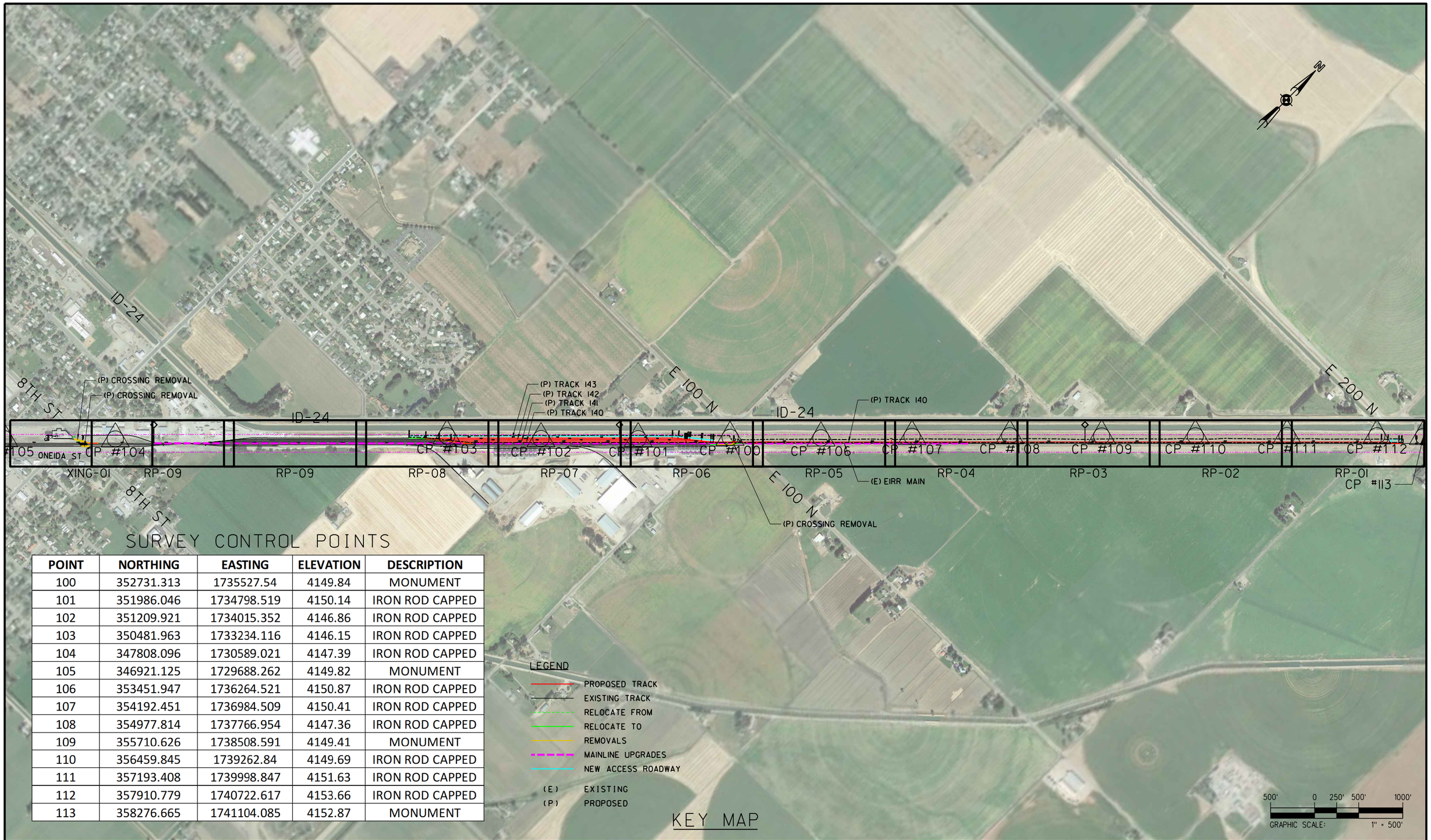

KEY MAP

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	352731.313	1735527.54	4149.84	MONUMENT
101	351986.046	1734798.519	4150.14	IRON ROD CAPPED
102	351209.921	1734015.352	4146.86	IRON ROD CAPPED
103	350481.963	1733234.116	4146.15	IRON ROD CAPPED
104	347808.096	1730589.021	4147.39	IRON ROD CAPPED
105	346921.125	1729688.262	4149.82	MONUMENT
106	353451.947	1736264.521	4150.87	IRON ROD CAPPED
107	354192.451	1736984.509	4150.41	IRON ROD CAPPED
108	354977.814	1737766.954	4147.36	IRON ROD CAPPED
109	355710.626	1738508.591	4149.41	MONUMENT
110	356459.845	1739262.84	4149.69	IRON ROD CAPPED
111	357193.408	1739998.847	4151.63	IRON ROD CAPPED
112	357910.779	1740722.617	4153.66	IRON ROD CAPPED
113	358276.665	1741104.085	4152.87	MONUMENT

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WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
KEY MAP & SURVEY CONTROL

CONTRACT NO.	19.192
DRAWING NO.	005
REVISION	
SHEET NO.	CK-05
SCALE	AS SHOWN

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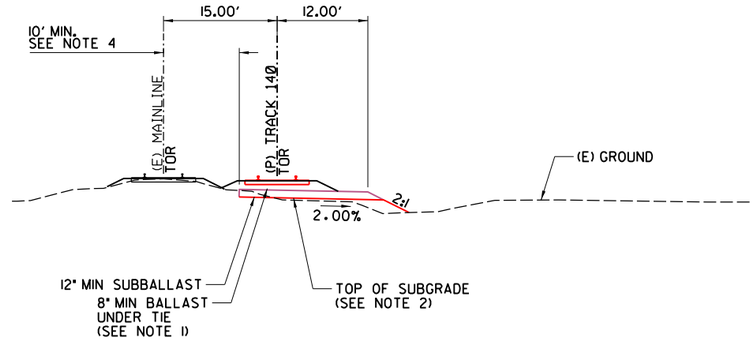
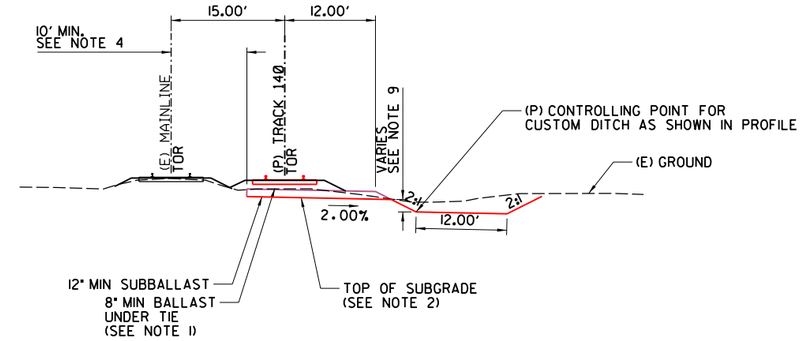
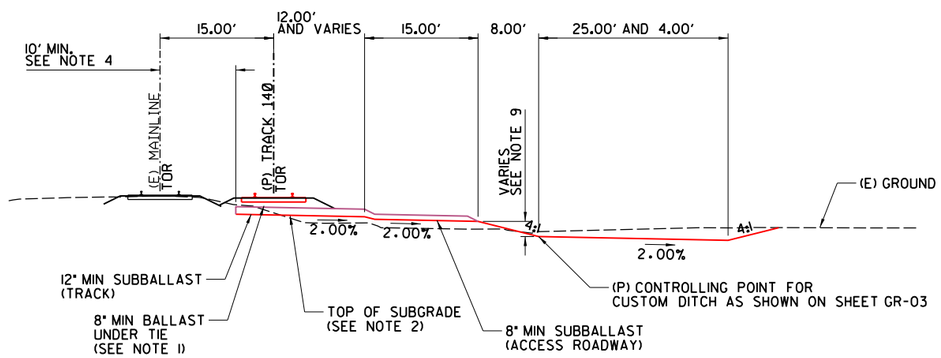


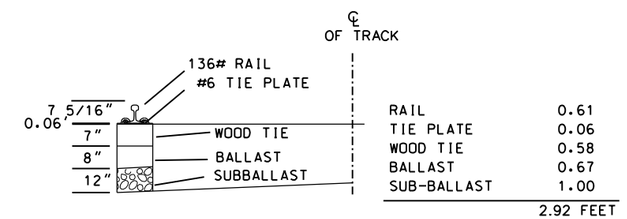
TYPICAL - FILL SECTION
TRACK 140 (STA. 544+90.33 TO STA. 621+10.00)
(N.T.S.)



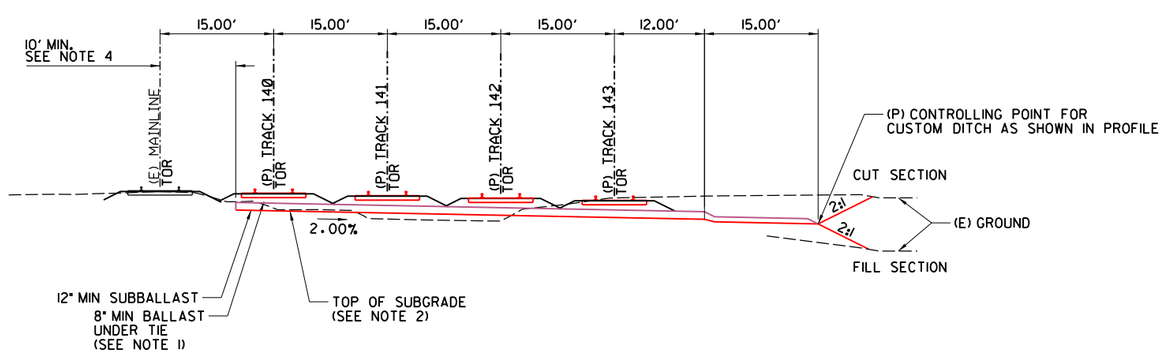
TYPICAL - CUT SECTION
TRACK 140 (STA. 544+90.33 TO STA. 621+10.00)
(N.T.S.)



TYPICAL - TRACK SECTION
TRACK 140 (STA. 621+10.00 TO STA. 626+50.00)
(N.T.S.)



TYPICAL RAIL SECTION
WOOD TIES



TYPICAL - TRACK SECTION
TRACK 140 (STA. 626+50.00 TO STA. 657+49.79)
(N.T.S.)

NOTES:

1. ALL WORK PERTAINING TO PLACEMENT OF BALLAST, TIES AND TRACK SHALL BE BY TRACK CONTRACTOR.
2. TOP OF SUBGRADE PLANE SHALL BE 2.92' BELOW TOP OF RAIL AT CENTERLINE OF TRACK IN NORMAL CROWN.
3. 7" X 9" X 8'-6" WOOD TIES SHALLBE USED.
4. PROTECT THE EXISTING TIE-IN TRACKS IN PLACE AT ALL TIMES & NO EXCAVATION TO OCCUR WITHIN 10' OF EXISTING TRACK CENTERLINES, UNLESS OTHERWISE NOTED.
5. FILL AND CUT SLOPES SHALL BE AS INDICATED ON SITE EXPLICIT CONSTRUCTION PLANS AND PROFILES.
6. WHERE DOUBLE TRACK CROSSES A ROADWAY, ADJUST BALLAST SECTION TO PROVIDE UNIFORM ROADWAY PROFILE.
7. ALL EXPOSED DIRT SURFACES SHALL BE COVERED WITH 4" TOPSOIL AND SEEDING.
8. SEE CROSS SECTIONS FOR CUT/FILL END CONDITIONS.
9. SEE PLAN AND PROFILES FOR NON-STANDARD DITCH DEPTH LOCATIONS AS APPLICABLE.

REV	DATE	DESCRIPTION	BY / SUB	APP

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
TYPICAL SECTIONS
TRACK
SHEET 01 OF 01

CONTRACT NO.	19.192
DRAWING NO.	RC-01
REVISION	
SHEET NO.	006
SCALE	NOT TO SCALE

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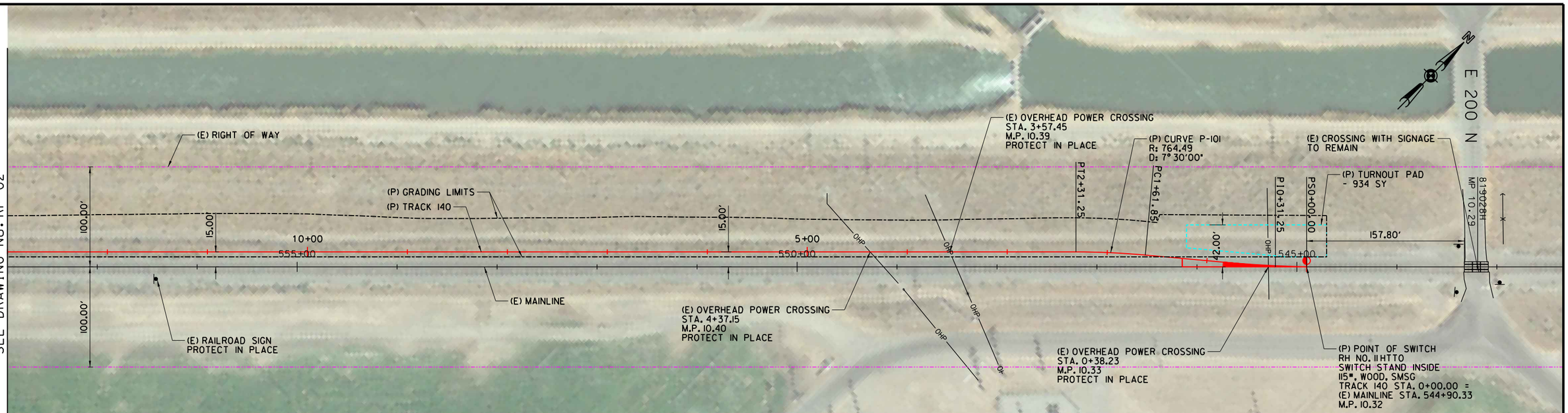


PLAN

NOTES:

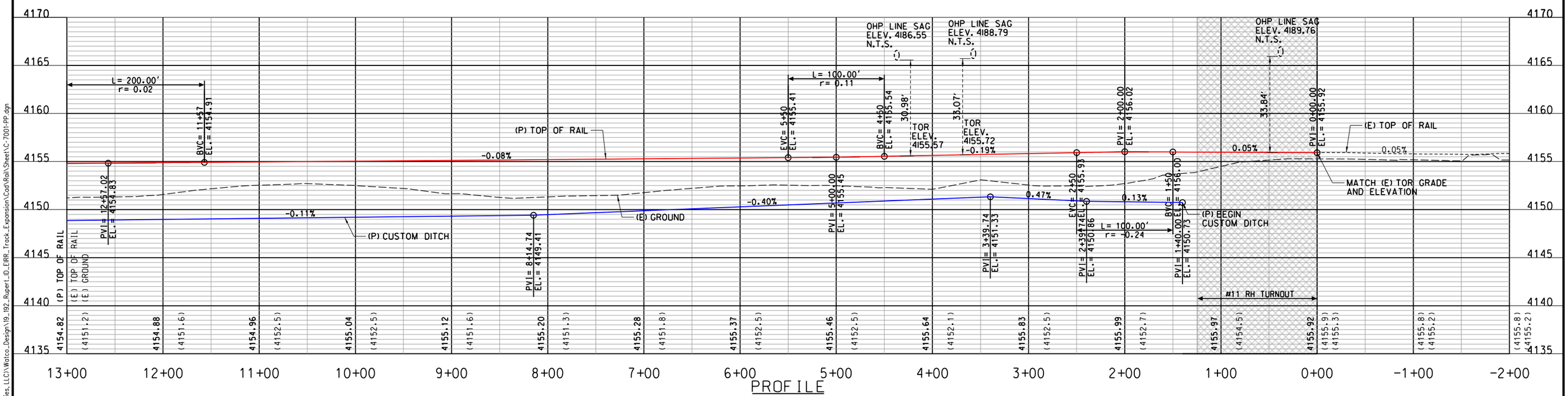
1. FOR GEOMETRY DATA, SEE DRAWING NO. RT-01
2. FOR TYPICAL CROSS-SECTIONS, SEE DRAWING NO. RC-01
3. FOR EARTHWORK CROSS-SECTIONS, SEE DRAWING NOS. RX-01 THRU RX-40
4. FOR SURVEY CONTROL, SEE DRAWING NO. CK-05
5. CONTRACTOR TO FIELD VERIFY FIBER OPTIC AND ALL OTHER UTILITIES
6. ALL STATIONING IS BASED ON TRACK 140 UNLESS NOTED OTHERWISE
7. SIGNAL FACILITY LOCATIONS TO BE DETERMINED BY WATCO AS APPLICABLE
8. RIGHT-OF-WAY INFORMATION IS BASED ON WATCO STATION & TRACK MAPS
9. ALL DRAINAGE PIPE EXTENSIONS SHALL BE PER WATCO STANDARDS
10. ALL SIGNAL WORK BY WATCO FORCES
11. MILE POST MARKERS LOCATED BY FIELD SURVEY
12. MILE POSTS & STATIONS FOR UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR OR UTILITY AGENT TO VERIFY IN FIELD.

TRACK LEGEND

- PROPOSED TRACK
- TRACK SHIFT (RELOCATE TO)
- EXISTING TRACK (TO REMAIN)
- EXISTING TRACK (TO BE REMOVED)
- TRACK SHIFT (RELOCATE FROM)
- MAINLINE TRACK UPGRADE
- NEW ACCESS ROADWAY

GRAPHIC SCALE: 50' 0 25' 50' 100' — 1" = 50'

GRAPHIC SCALE: 5' 0 2.5' 5' 10' — VERT: 1" = 5'



PROFILE

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 01 OF 08
STA 0+00 TO STA 13+00
MP 10.32 TO MP 10.57

CONTRACT NO.	19.192
DRAWING NO.	RP-01
REVISION	
SHEET NO.	007
SCALE	AS SHOWN

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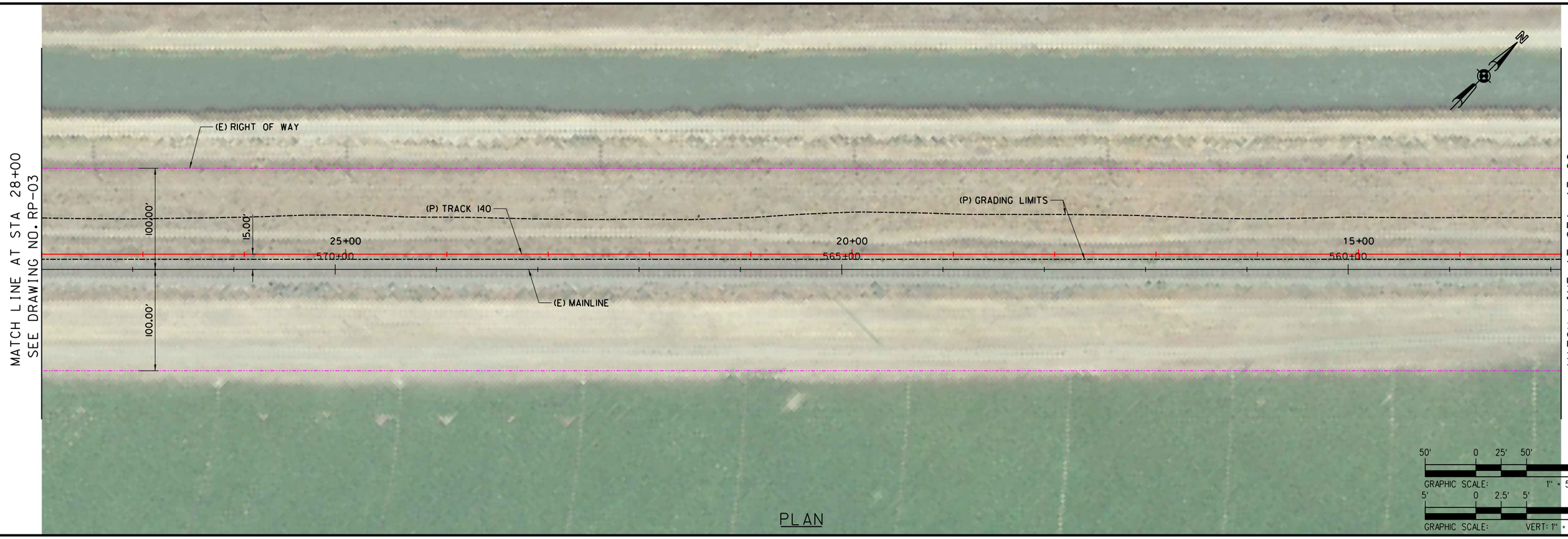
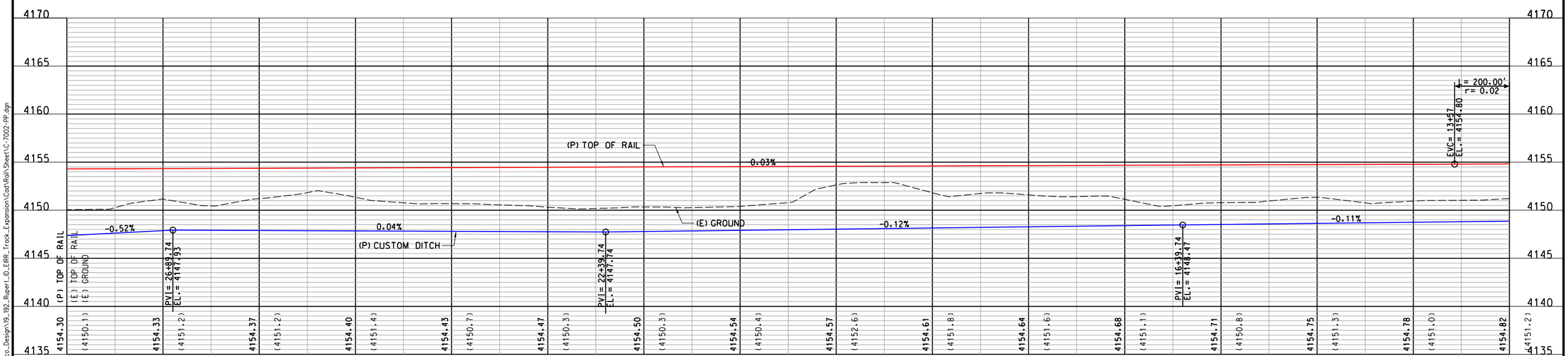


PLAN



PROFILE

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 02 OF 08
STA 13+00 TO STA 28+00
MP 10.57 TO MP 10.85

CONTRACT NO.	19.192
DRAWING NO.	RP-02
REVISION	
SHEET NO.	008
SCALE	AS SHOWN

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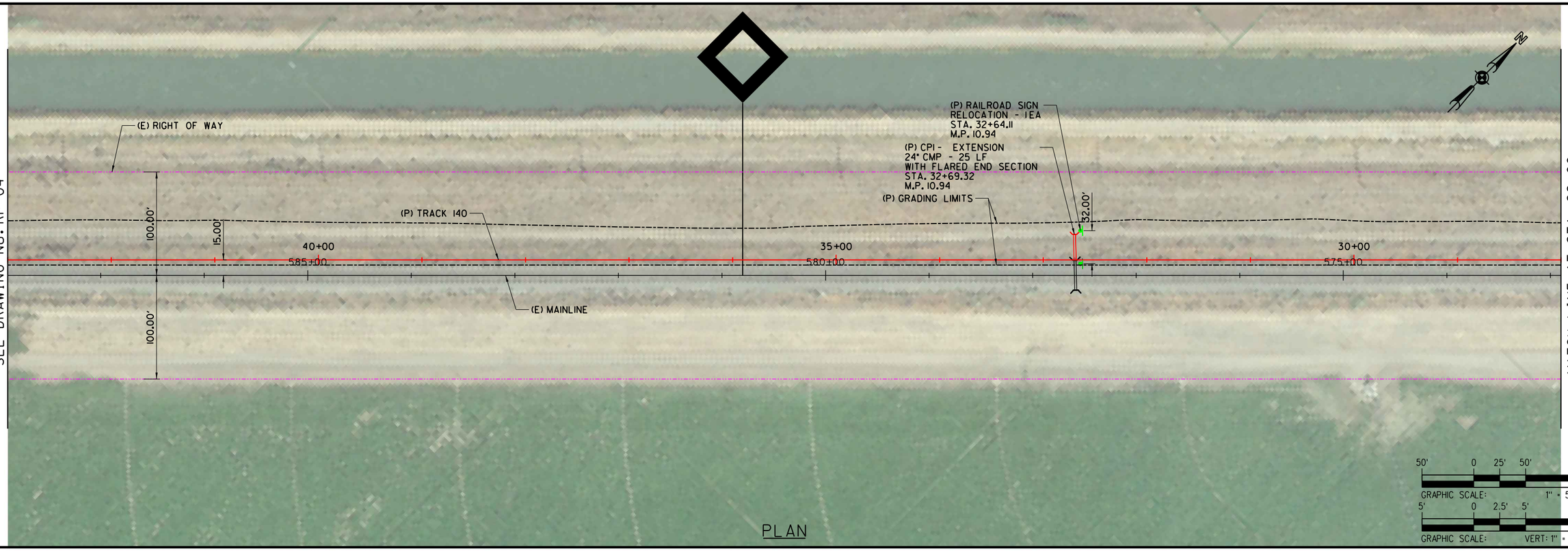

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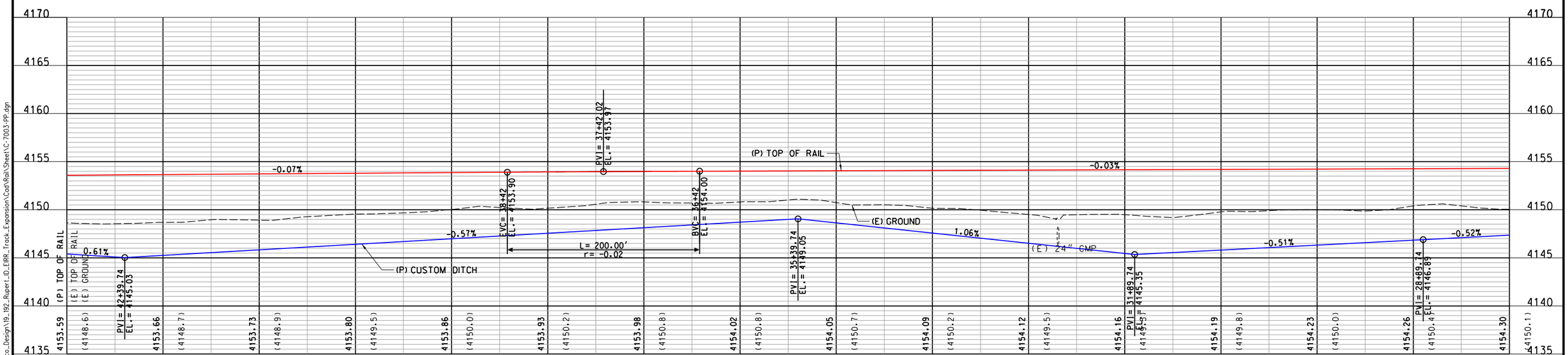

PROFILE

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 03 OF 08
STA 28+00 TO STA 43+00
MP 10.85 TO MP 11.13

CONTRACT NO.	19.192
DRAWING NO.	RP-03
REVISION	
SHEET NO.	009
SCALE	AS SHOWN

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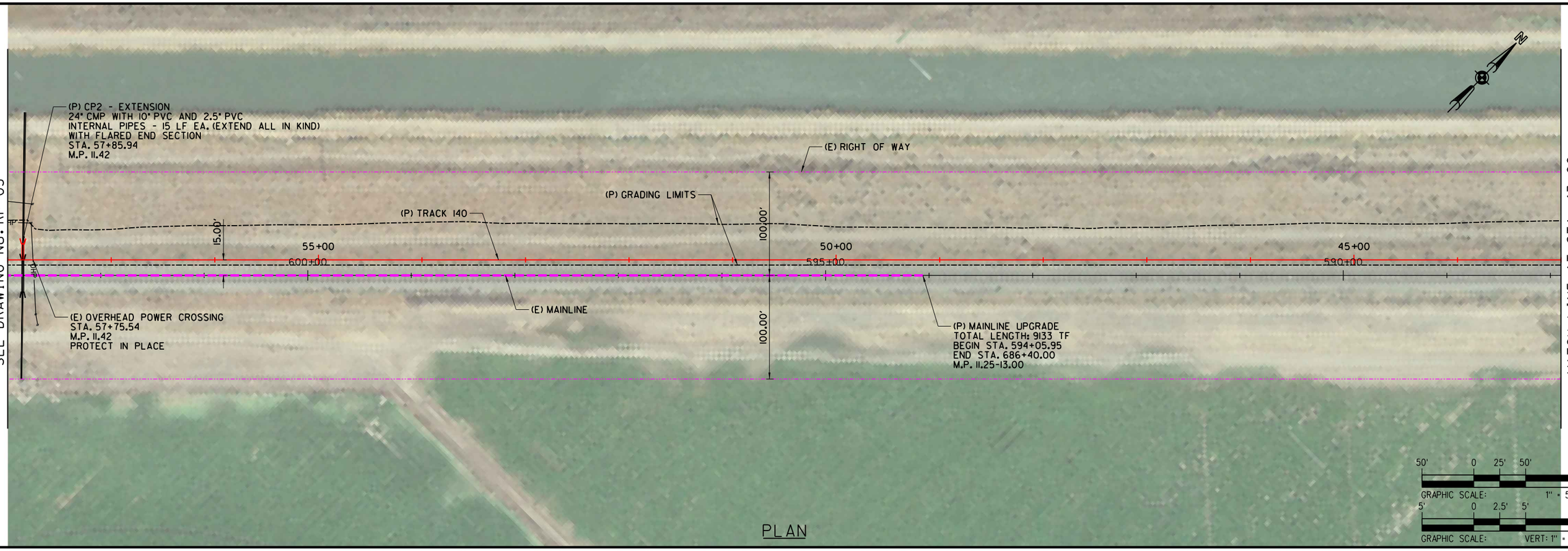

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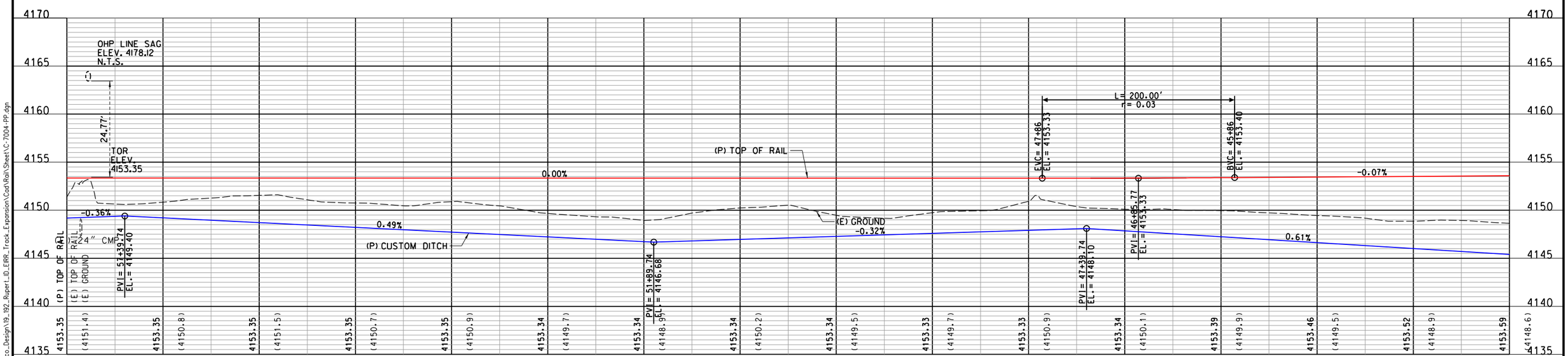

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 04 OF 08
STA 43+00 TO STA 58+00
MP 11.13 TO MP 11.41

CONTRACT NO.	19.192
DRAWING NO.	RP-04
REVISION	
SHEET NO.	010
SCALE	AS SHOWN

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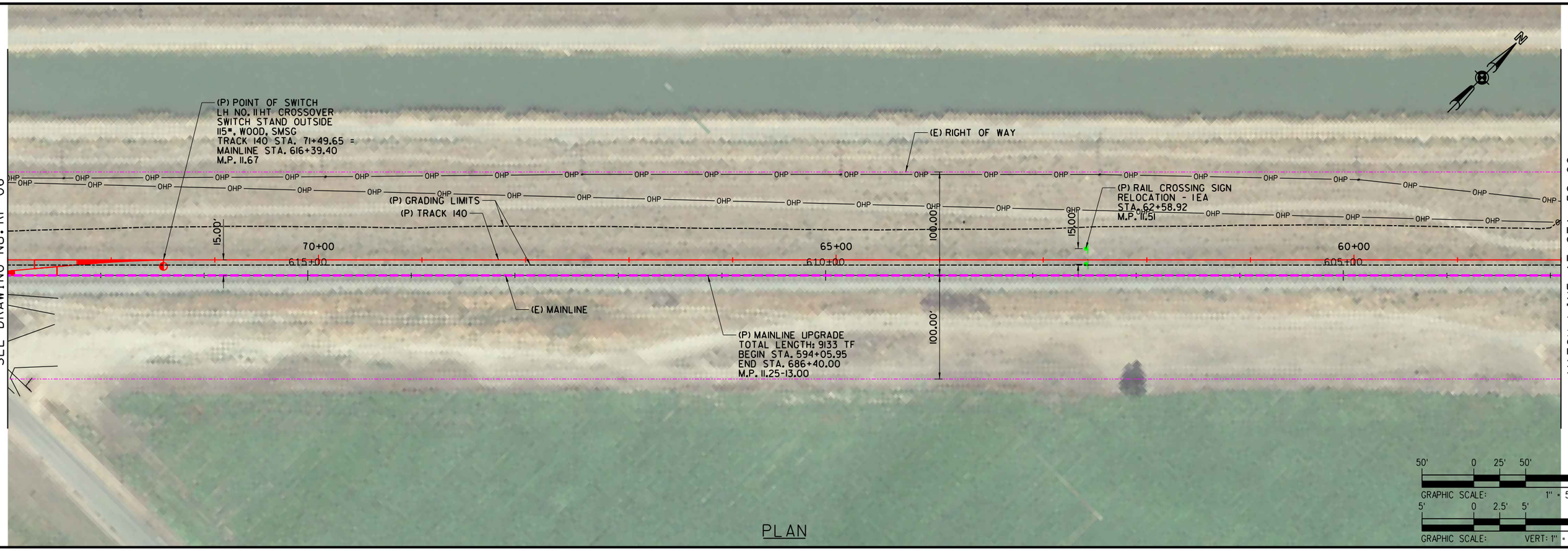

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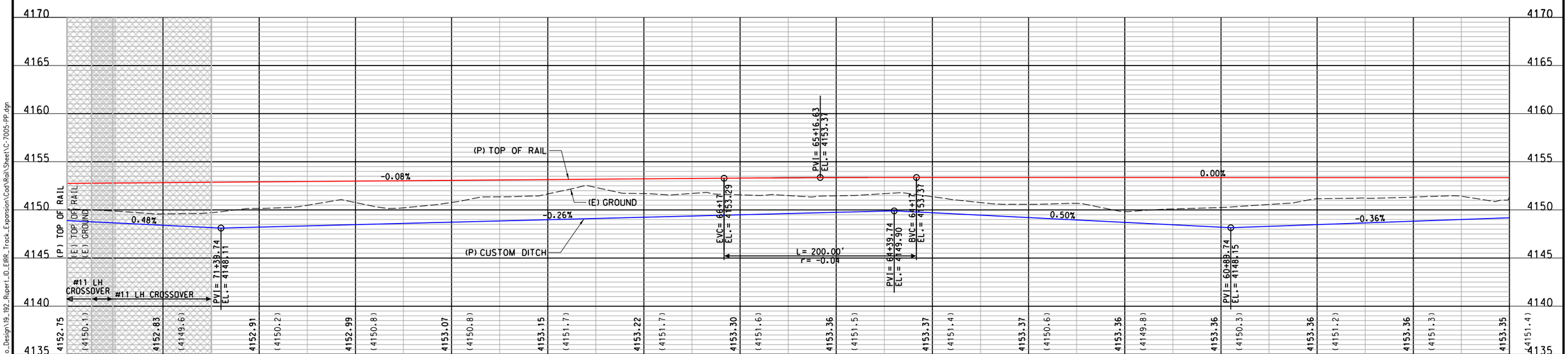

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 05 OF 08
STA 58+00 TO STA 73+00
MP 11.41 TO MP 11.69

CONTRACT NO.	19.192
DRAWING NO.	RP-05
REVISION	
SHEET NO.	011
SCALE	AS SHOWN

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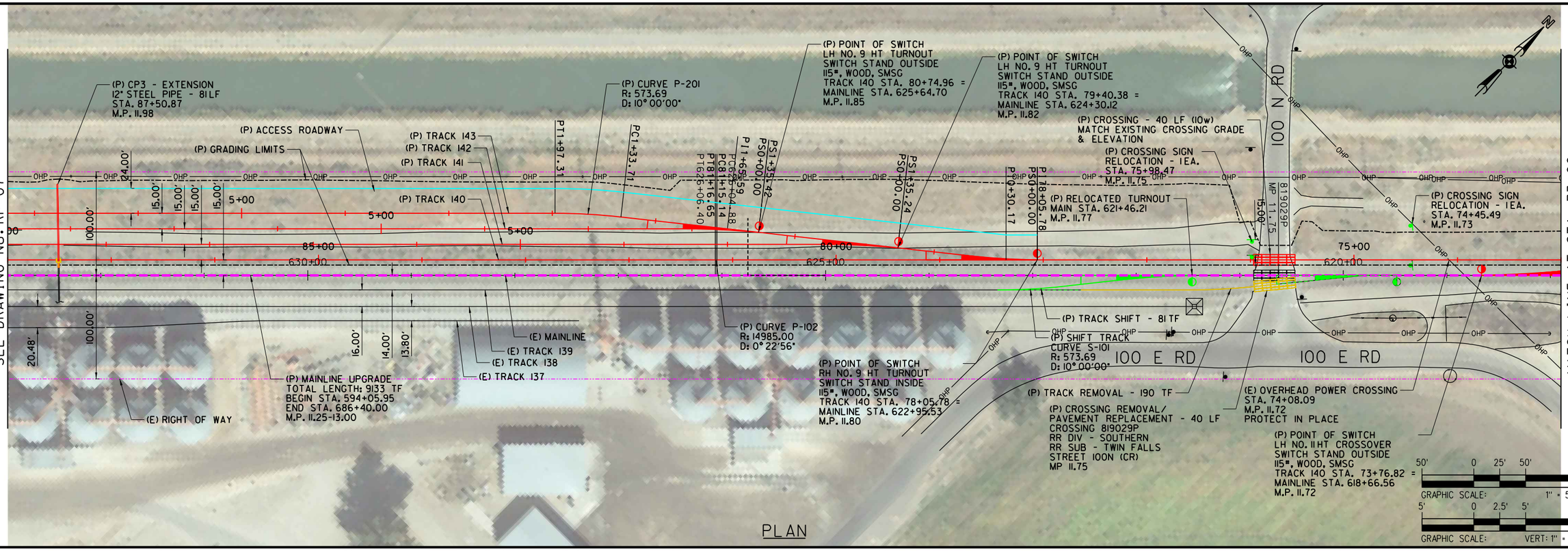

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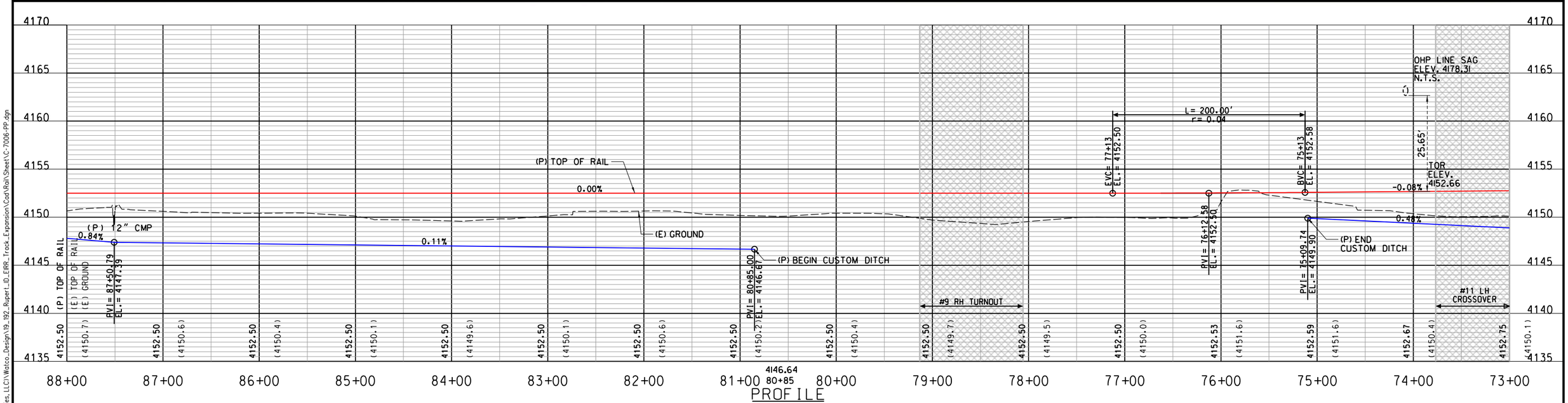

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EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 06 OF 08
STA 73+00 TO STA 88+00
MP 11.69 TO MP 11.97

CONTRACT NO.	19.192
DRAWING NO.	RP-06
REVISION	
SHEET NO.	012
SCALE	AS SHOWN

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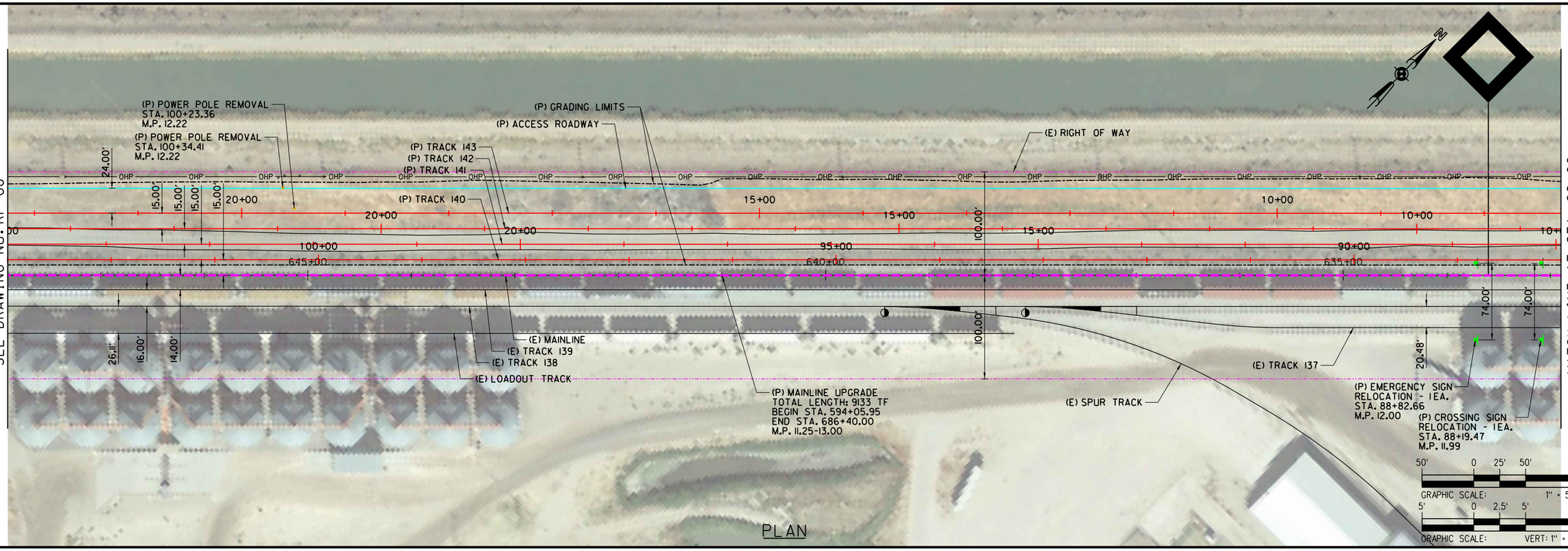

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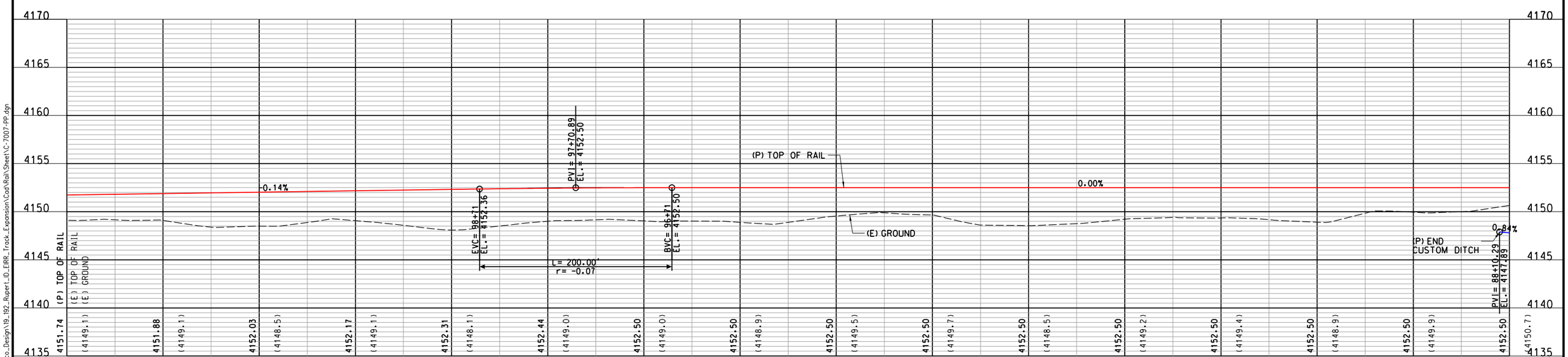

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 07 OF 08
STA 88+00 TO STA 103+00
MP 11.97 TO MP 12.25

CONTRACT NO.	19.192
DRAWING NO.	RP-07
REVISION	
SHEET NO.	013
SCALE	AS SHOWN

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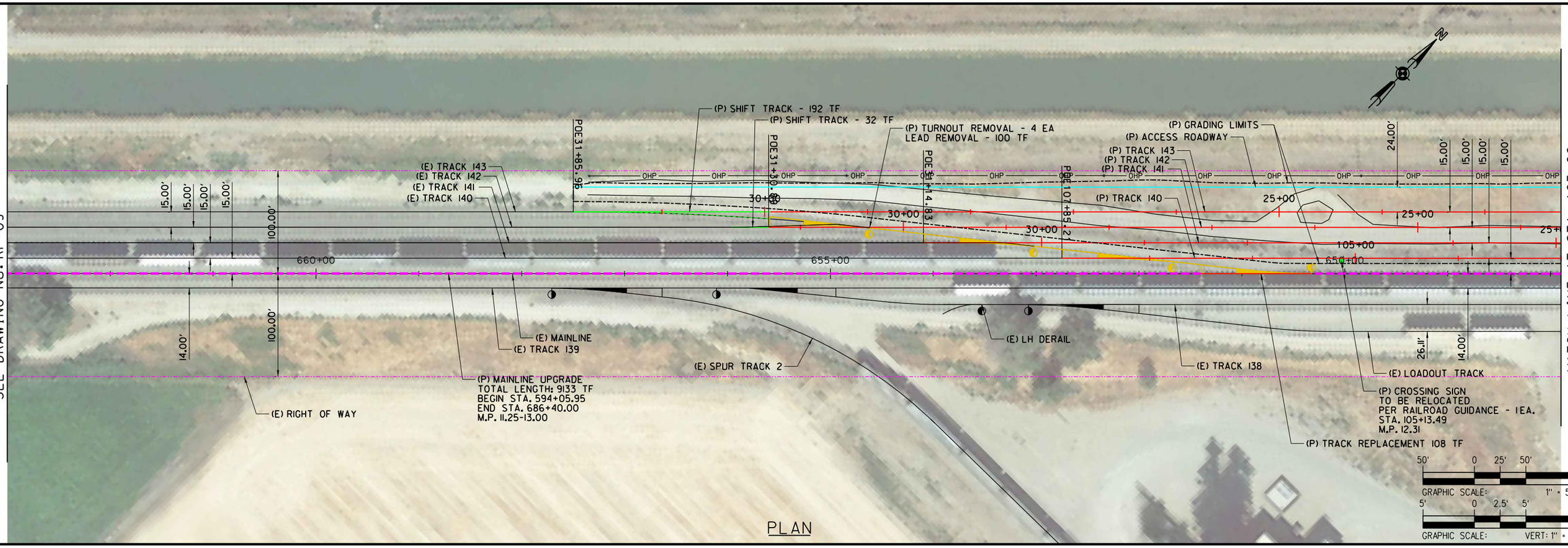
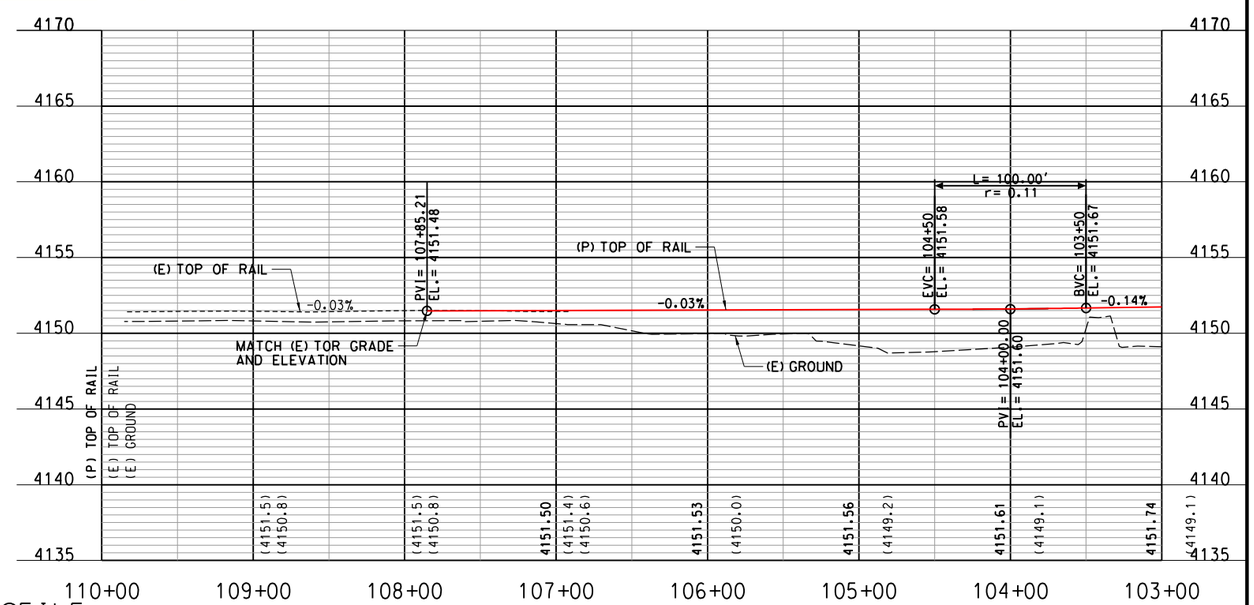


PLAN



PROFILE

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS, SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC. AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 08 OF 08
STA 103+00 TO STA 663+00
MP 12.25 TO MP 12.53

CONTRACT NO.	19.192
DRAWING NO.	RP-08
REVISION	
SHEET NO.	014
SCALE	AS SHOWN

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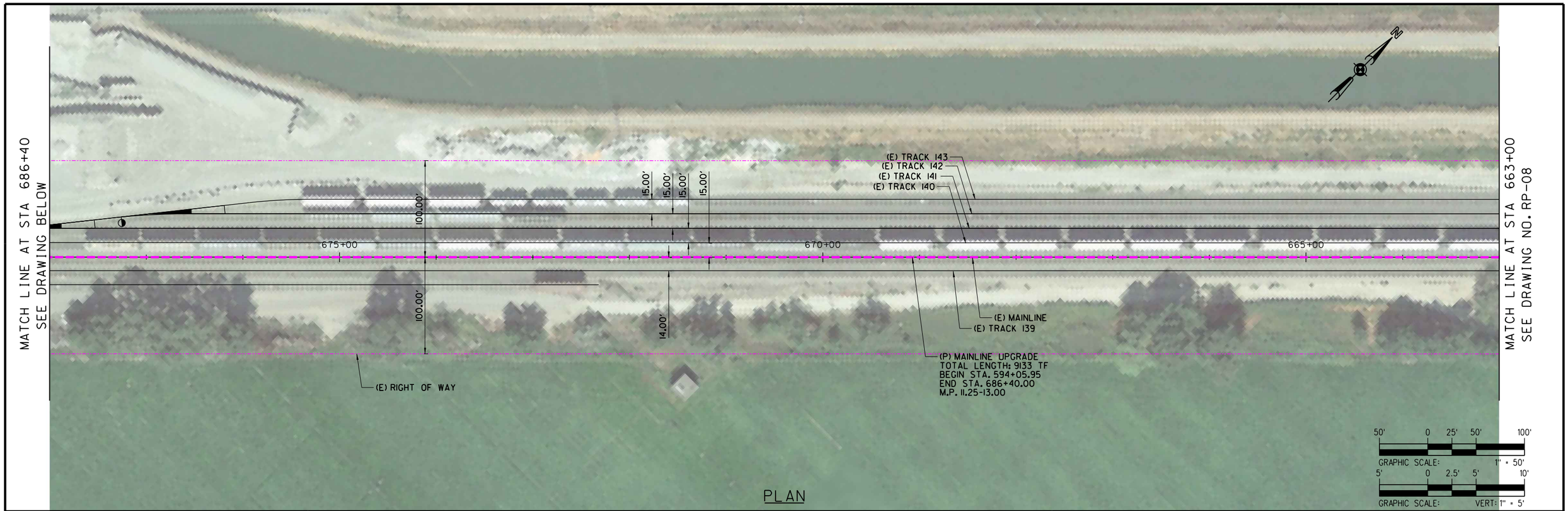

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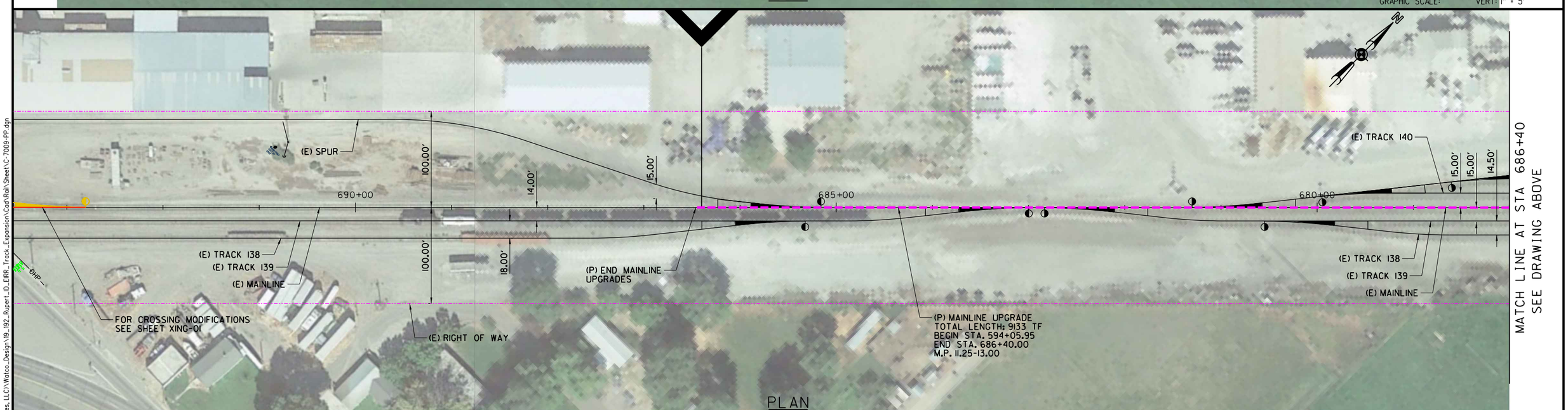

PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

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WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
TRACK 140 PLAN & PROFILE - SHEET 09 OF 08
STA 663+00 TO STA 686+40
MP 12.53 TO MP 13

CONTRACT NO.	19.192
DRAWING NO.	RP-09
REVISION	
SHEET NO.	015
SCALE	AS SHOWN

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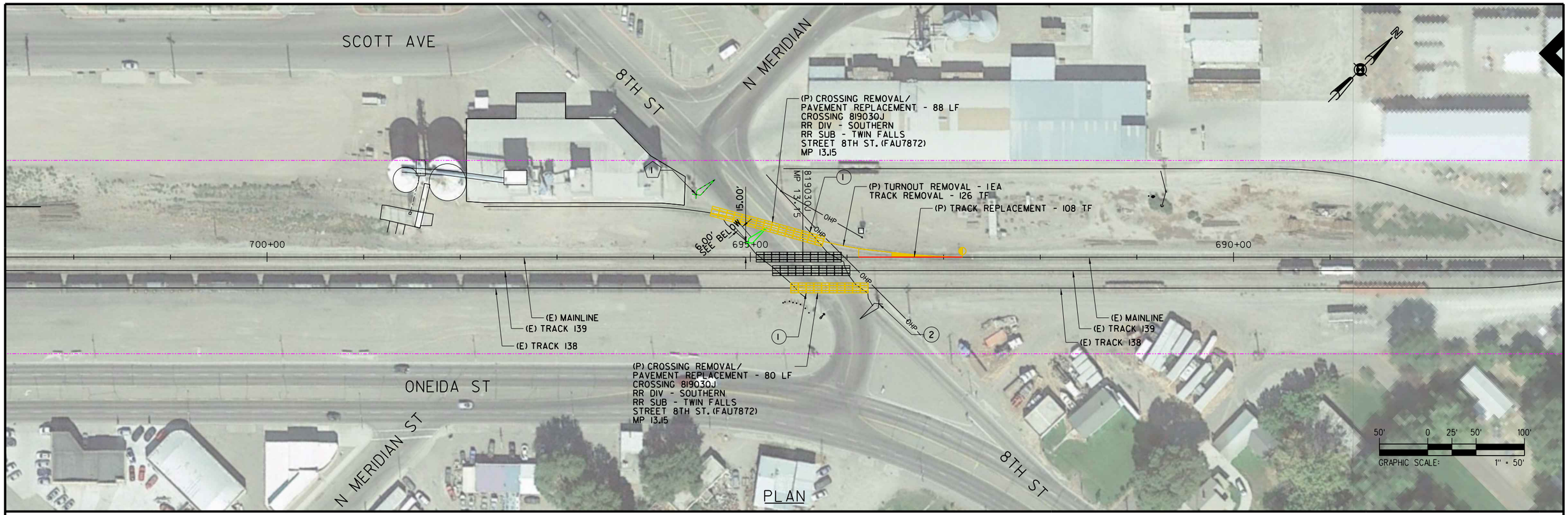


CONSTRUCTION NOTES:

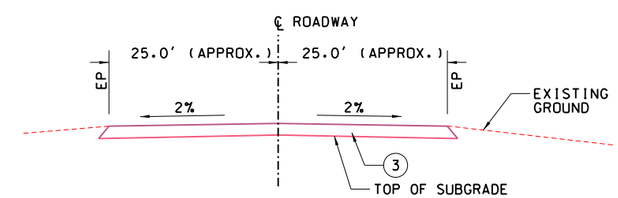
1. CROSSING FOOTPRINT AS SHOWN. 10' WIDE PANELS TO BE REMOVED AND REPLACED TO MATCH EXISTING PAVEMENT CONDITIONS.
2. EXISTING RAILROAD SIGNS AND SIGNALS TO BE RELOCATED OR MAINTAINED AS SHOWN.
3. MATCH EXISTING PAVEMENT THICKNESS

WORK BY CONTRACTOR:

1. RELOCATE SIGNALIZATION IN KIND PER PLACEMENT IN ITD STANDARD. RAILROAD GRADE CROSSING SIGNAL TYPE 1.

NOTES:

1. ALL EXISTING SIGNS TO BE MAINTAINED DURING CONSTRUCTION AND RELOCATED AS NECESSARY AFTER COMPLETION.
2. PAVEMENT REPLACEMENT SHALL MAINTAIN EXISTING ROADWAY GRADE.
3. PROPOSED ROADWAY REPLACEMENT CROSS SECTION WIDTH TO MATCH EXISTING ROAD WIDTH.
4. CONTRACTOR RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD. LOCAL AND STATE REGULATIONS.
5. PAVEMENT SHALL BE SAW CUT TO FULL DEPTH OUTSIDE LIMITS OF REMOVED CROSSING PANELS ON EACH SIDE OF TRACK PRIOR TO REMOVAL.



TYPICAL CROSS-SECTION ROADWAY

SCALE: NONE

REV	DATE	DESCRIPTION	BY / SUB	APP

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
RAIL CROSSING PLAN SHEET 01 OF 01

CONTRACT NO.	19.192
DRAWING NO.	XING-01
REVISION	
SHEET NO.	016
SCALE	AS SHOWN

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PROPOSED TRACK 140

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
TURNOUT	#11 RH TO	Pt. Sw PI TO	0+00.00 0+31.25	358045.22 358023.21	1740982.40 1740960.21	S 45°14'04" W
CURVE P-101	TOTAL DELTA = 5°12'18'' (LT) Dc = 7°30'0'' Rc = 764.49 T = 34.75 E = 0.79 Lc = 69.40	PC PI PT	1+61.85 1+96.59 2+31.25	357940.03 357917.90 357893.43	1740859.53 1740832.74 1740808.07	S 50°26'22" W S 45°14'04" W
CURVE P-102	TOTAL DELTA = 0°0'21'' (RT) Dc = 0°22'56'' Rc = 14985.00 T = 0.76 E = 0.00 Lc = 1.51	PC PI PT	81+15.14 81+15.90 81+16.65	352341.53 352340.99 352340.46	1735210.56 1735210.02 1735209.49	S 45°14'04" W S 45°14'24" W
POE	END	POE	107+85.21	350461.43	1733314.64	S 45°14'04" W

PROPOSED TRACK 141

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
TURNOUT	#9 RH TO	Pt. Sw PI TO	0+00.00 0+30.17	352559.38 352538.13	1735430.20 1735408.78	S 45°14'04" W
TURNOUT	#9 LH TO	Pt. Sw PI TO	1+35.24 1+65.41	352472.86 352454.12	1735326.44 1735302.80	S 51°35'59" W
POE	END	POE	31+14.83	350377.32	1733208.52	S 45°14'24" W

PROPOSED TRACK 142

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
TURNOUT	#9 LH TO	Pt. Sw PI TO	0+00.00 0+30.17	352472.86 352454.12	1735326.44 1735302.80	S 51°35'59" W
TURNOUT	#9 LH TO	Pt. Sw PI TO	1+35.24 1+65.41	352388.74 352370.00	1735220.32 1735196.67	S 51°35'59" W
POE	END	POE	31+30.89	350282.02	1733091.12	S 45°14'24" W

PROPOSED TRACK 143

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
TURNOUT	#9 LH TO	Pt. Sw PI TO	0+00.00 0+31.25	352388.74 352370.00	1735220.32 1735196.67	S 51°35'59" W
CURVE P-201	TOTAL DELTA = 6°21'35'' (LT) Dc = 10°0'0'' Rc = 573.69 T = 31.87 E = 0.88 Lc = 63.60	PC PI PT	1+33.71 1+65.59 1+97.31	352305.69 352285.89 352263.45	1735115.53 1735090.55 1735067.92	S 51°35'59" W S 45°14'24" W
POE	END	POE	31+85.96	350159.03	1732945.79	S 45°14'24" W

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CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
TRACK GEOMETRY DATA - SHEET 01 OF 02

CONTRACT NO. 19.192
DRAWING NO. RT-01
REVISION
SHEET NO. 017
SCALE NOT TO SCALE

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Date: 02\22\2022

EXISTING MAINLINE

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
POB	BEGIN	POB	454+85.00	364386.85	1747376.12	S 45°14'04" W
CURVE E-101	TOTAL DELTA = 58°25'49'' (RT) Dc = 9°50'3'' Rc = 583.34 T = 326.22 E = 85.02 Lc = 594.16	PC PI PT	626+04.88 626+05.64 626+06.40	352330.88 352330.34 352329.81	1735221.12 1735220.59 1735220.05	S 45°14'04" W S 45°14'24" W
POE	END	POE	728+60.15	345109.76	1727939.23	S 45°14'24" W

EXISTING TRACK 140

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
TURNOUT	#9 LH TO (REMOVAL)	Pt. Sw PI TO	0+00.00 0+30.17	350534.87 350516.13	1733393.45 1733369.80	S 51°35'59" W
TURNOUT	#9 RH TO	PI TO Pt. Sw	27+98.08 28+28.25	348567.14 348543.66	1731404.41 1731385.47	S 38°52'49" W
TURNOUT	#9 LH TO	PI TO Pt. Sw	29+33.50 29+63.67	348461.73 348440.49	1731319.41 1731297.99	S 45°14'24" W

EXISTING TRACK 141

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
TURNOUT	#9 LH TO (REMOVAL)	Pt. Sw PI TO	0+00.00 0+30.17	350450.76 350432.02	1733287.32 1733263.68	S 51°35'59" W
TURNOUT	#9 RH TO	PI TO Pt. Sw	25+28.92 25+59.09	348672.56 348649.07	1731489.41 1731470.47	S 38°52'49" W
TURNOUT	#9 RH TO	PI TO Pt. Sw	26+64.33 26+94.50	348567.14 348543.66	1731404.41 1731385.47	S 38°52'49" W

EXISTING TRACK 142

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
TURNOUT	#9 LH TO (REMOVAL)	Pt. Sw PI TO	0+00.00 0+31.25	350350.76 350331.34	1733161.16 1733136.65	S 51°35'59" W
CURVE E-201	TOTAL DELTA = 1°48'41'' (RT) Dc = 10°0'0'' Rc = 573.69 T = 9.07 E = 0.07 Lc = 18.11	PC PI PT	1+15.68 1+24.75 1+33.79	350270.04 350263.45 350257.07	1733078.62 1733072.39 1733065.95	S 43°25'43" W S 45°14'24" W
TURNOUT	#9 RH TO	PI TO Pt. Sw	22+34.37 22+64.54	348777.97 348754.49	1731574.41 1731555.47	S 38°52'49" W
TURNOUT	#9 RH TO	PI TO Pt. Sw	23+69.78 23+99.95	348672.56 348649.07	1731489.41 1731470.47	S 38°52'49" W

EXISTING TRACK 143

INDUSTRY TRACK						
ELEMENT	ELEMENT TYPE	POINT	STATION	NORTHING	EASTING	BEARING
TURNOUT	#9 LH TO (REMOVAL)	Pt. Sw PI TO	0+00.00 0+31.25	350621.49 350600.25	1733497.35 1733475.93	S 45°14'24" W
CURVE E-301	TOTAL DELTA = 6°21'35'' (LT) Dc = 2°8'23'' Rc = 2678.01 T = 148.78 E = 4.13 Lc = 297.24	PC PI PT	4+23.05 5+71.83 7+20.29	350356.21 350263.79 350159.03	1733168.03 1733051.43 1732945.79	S 51°35'59" W S 45°14'24" W
CURVE E-302	TOTAL DELTA = 6°21'35'' (LT) Dc = 10°0'0'' Rc = 573.69 T = 31.87 E = 0.88 Lc = 63.60	PC PI PT	25+00.05 25+31.93 25+63.65	348905.83 348883.39 348858.58	1731682.04 1731659.41 1731639.40	S 45°14'24" W S 38°52'49" W
TURNOUT	#9 RH TO	PI TO Pt. Sw	26+67.20 26+97.37	348777.97 348754.49	1731574.41 1731555.47	S 38°52'49" W

REV	DATE	DESCRIPTION	BY / SUB	APP

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DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
TRACK GEOMETRY DATA - SHEET 02 OF 02

CONTRACT NO. 19.192
DRAWING NO. RT-02
REVISION
SHEET NO. 018
SCALE NOT TO SCALE

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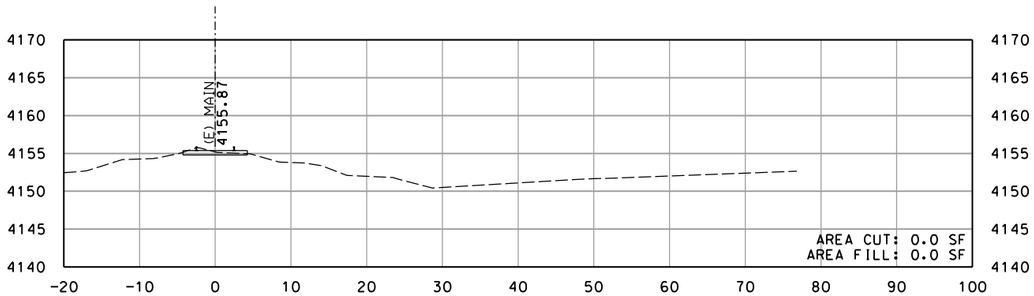
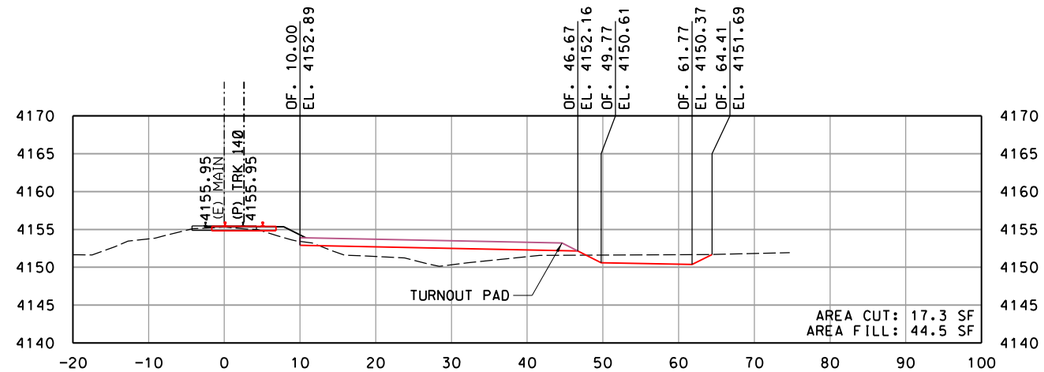


STA. 544+00



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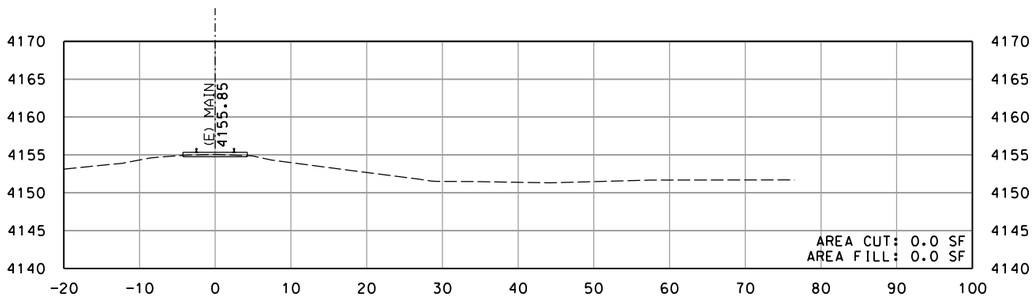

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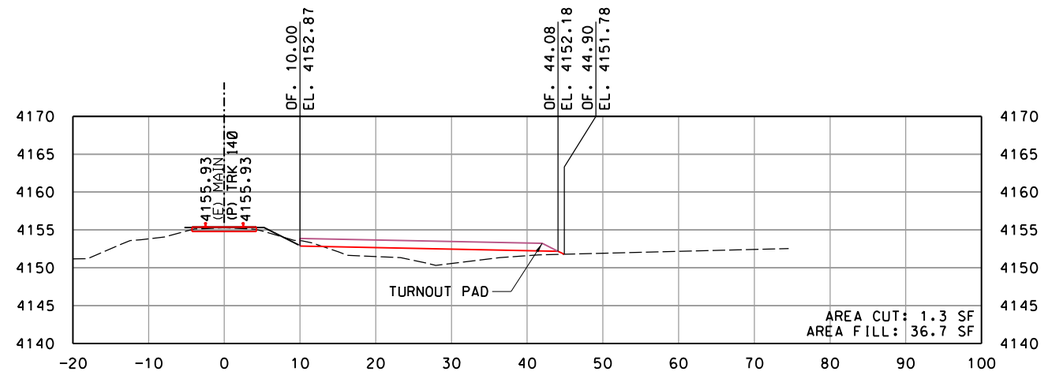

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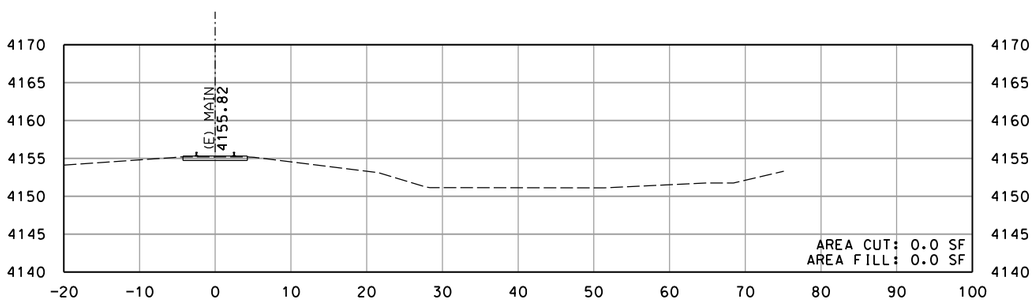

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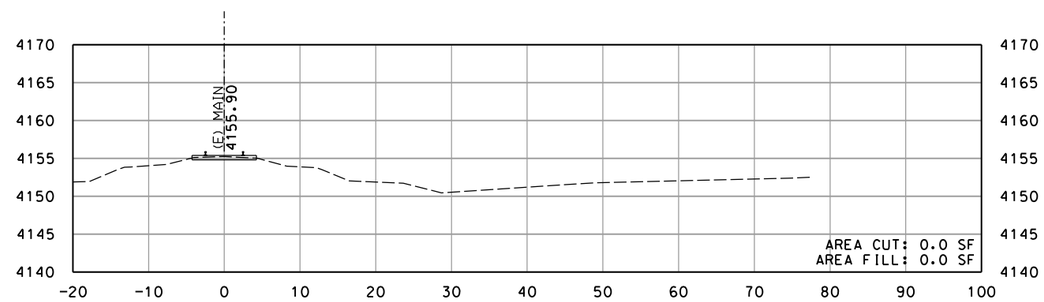

STA. 544+50

TYPICAL CROSS SECTION NOTES:
1. OFFSET ELEVATIONS ARE TO TOP OF EMBANKMENT (BOTTOM OF SUBBALLAST).
2. OFFSETS BASED OFF OF EXISTING MAINLINE TRACK.
3. ACTUAL CUT/FILL QUANTITIES WILL BE BASED ON SURFACE TO SURFACE COMPARISON.
4. NO EXCAVATION WITHIN 10' OF CENTERLINE OF EXISTING TRACK (TYP.).

CROSS SECTION LEGEND

- PROPOSED TOP OF EMBANKMENT
- PROPOSED TOP OF SUBBALLAST
- PROPOSED TOP OF BALLAST
- EXISTING GROUND

GRAPHIC SCALE: 10' 0 5' 10' 20' — 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 543+00 TO STA. 545+50
SHEET 01 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-01
REVISION	
SHEET NO.	019
SCALE	AS SHOWN

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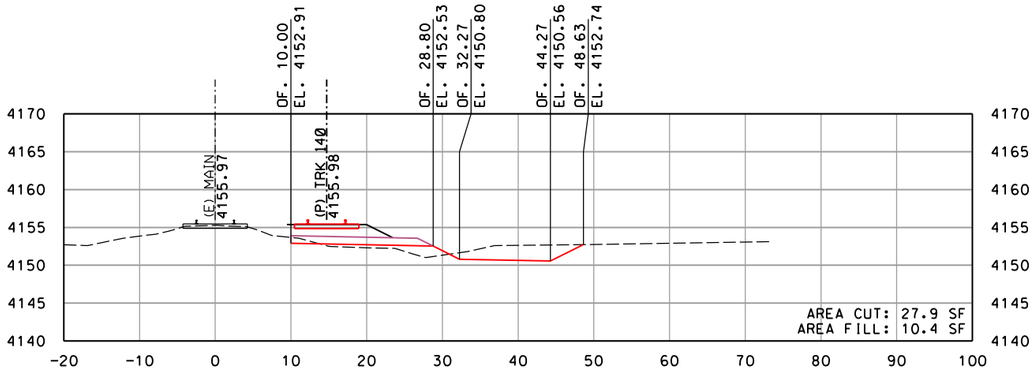

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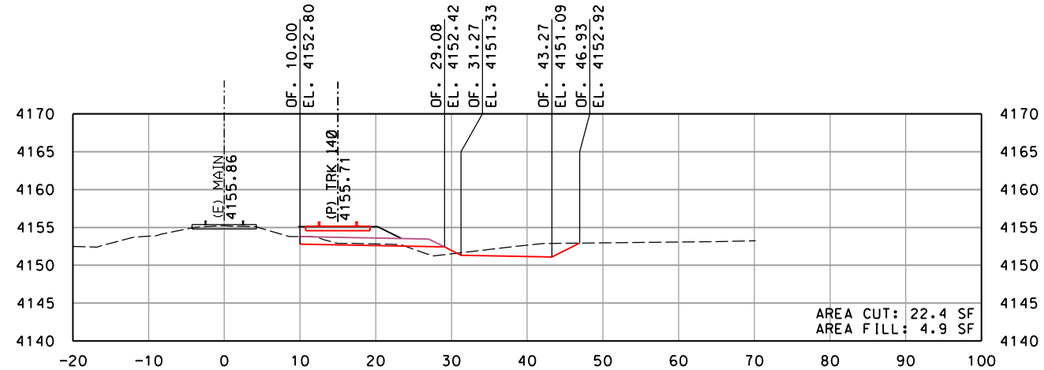

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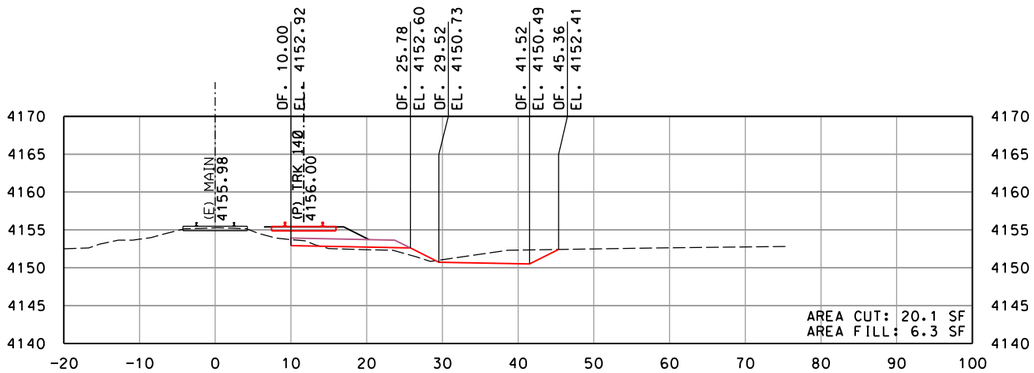

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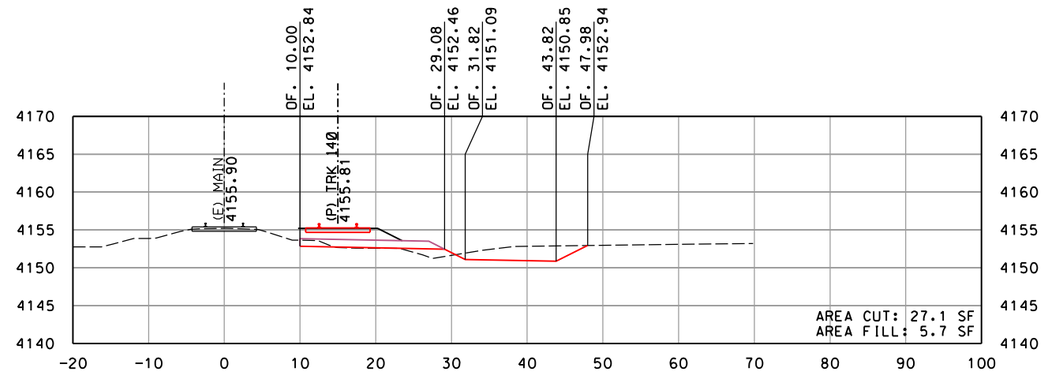

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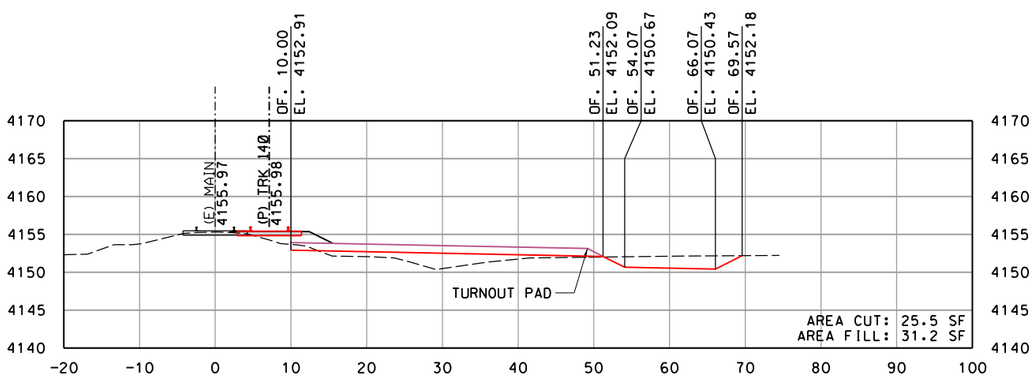

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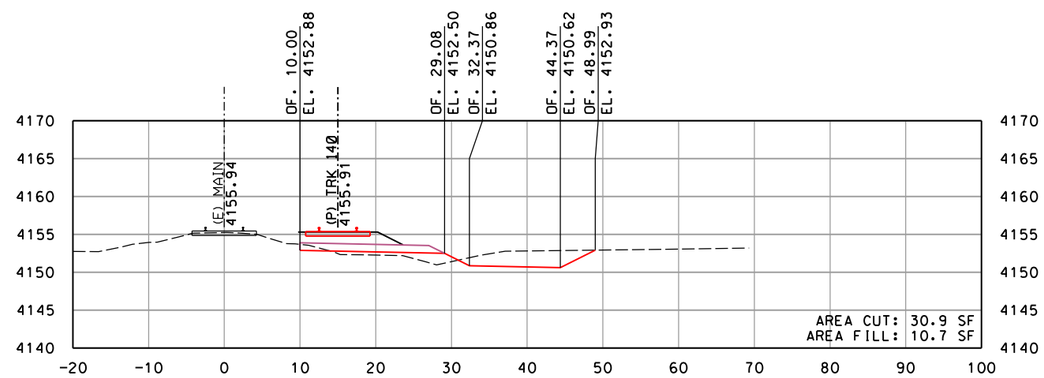

STA. 547+50

GRAPHIC SCALE: 10' 0 5' 10' 20' — 1" = 10'

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WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 546+00 TO STA. 548+50
SHEET 02 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-02
REVISION	
SHEET NO.	020
SCALE	AS SHOWN

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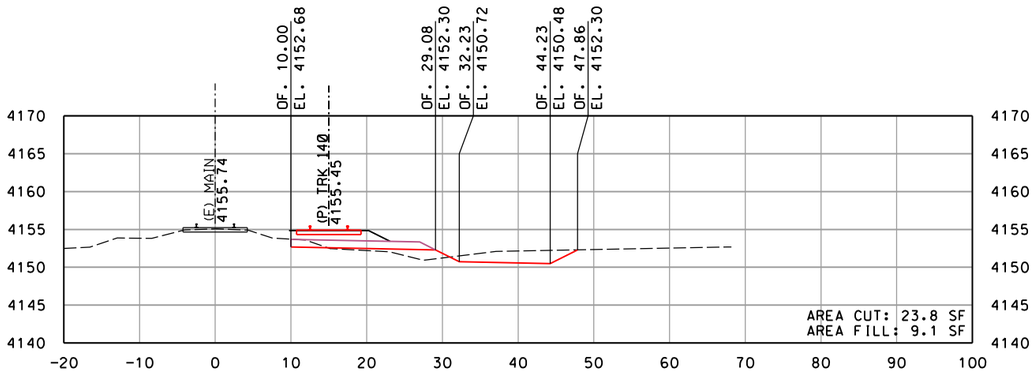
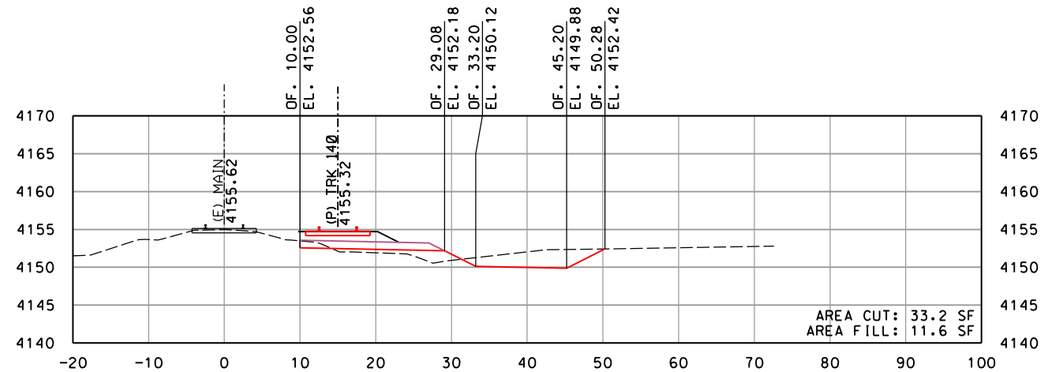
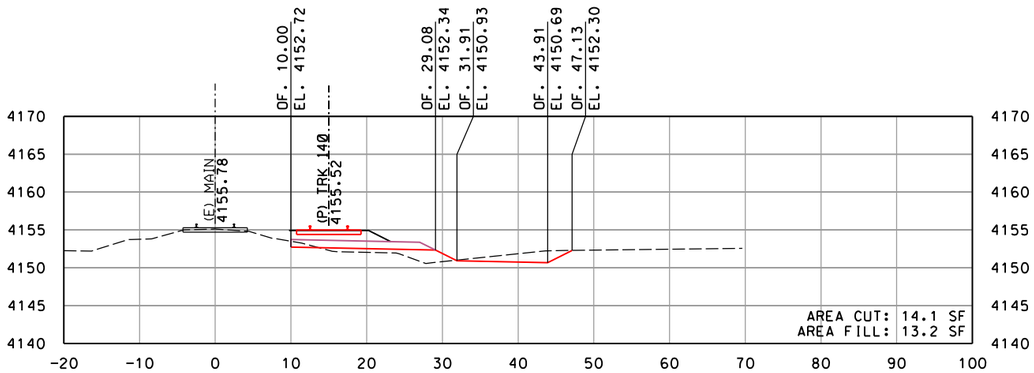


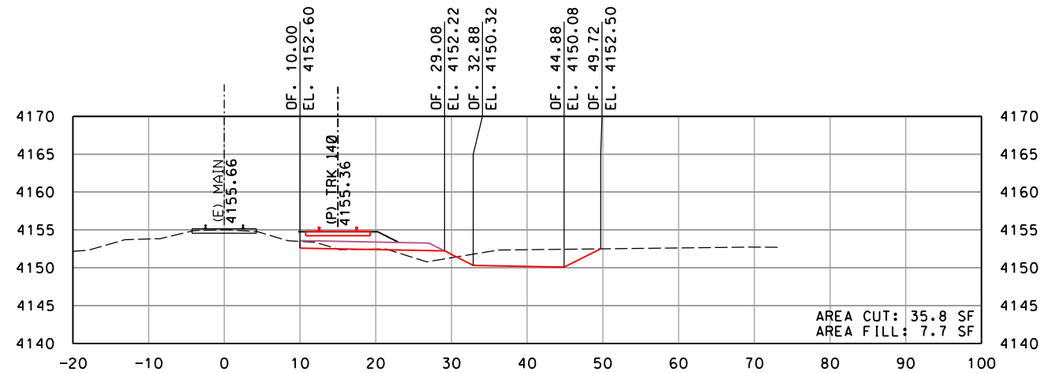
STA. 550+00



STA. 551+50



STA. 549+50



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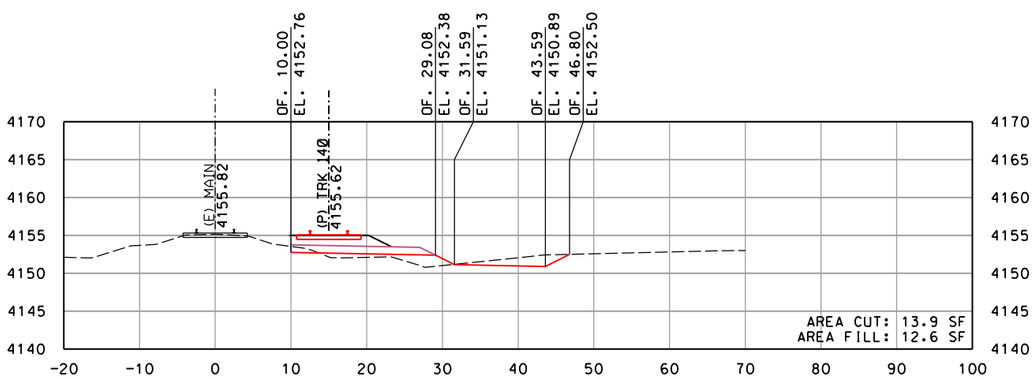

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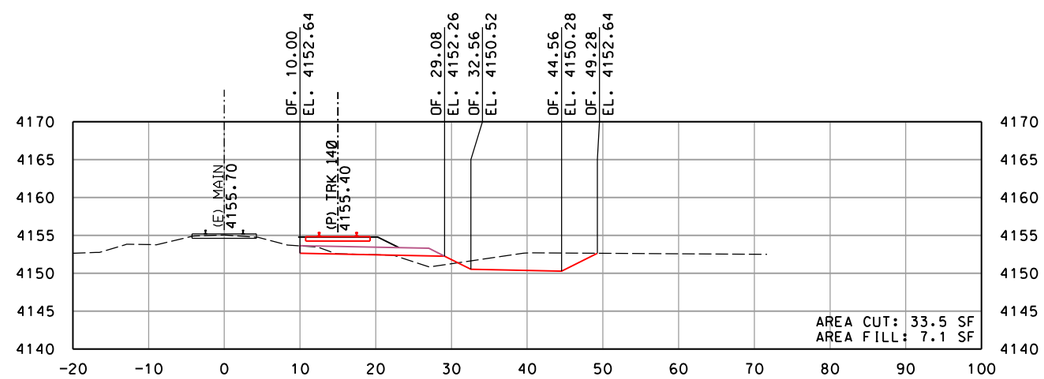

STA. 550+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 549+00 TO STA. 551+50
SHEET 03 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-03
REVISION	
SHEET NO.	021
SCALE	AS SHOWN

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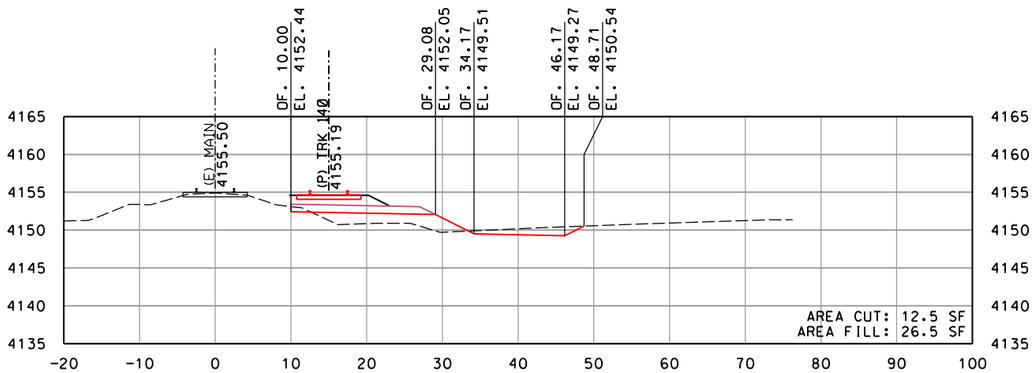
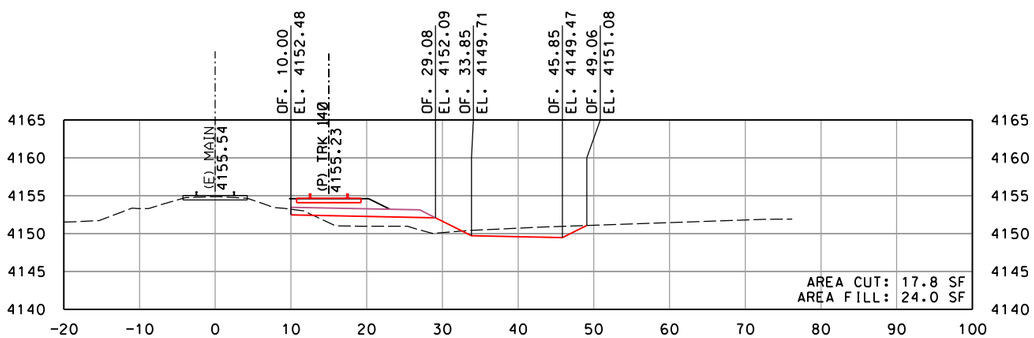
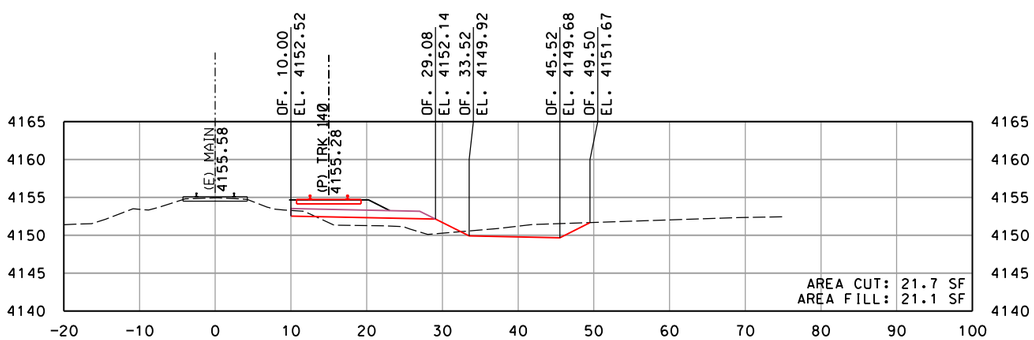
Time: 1:56:12 PM
Date: 02\22\2022



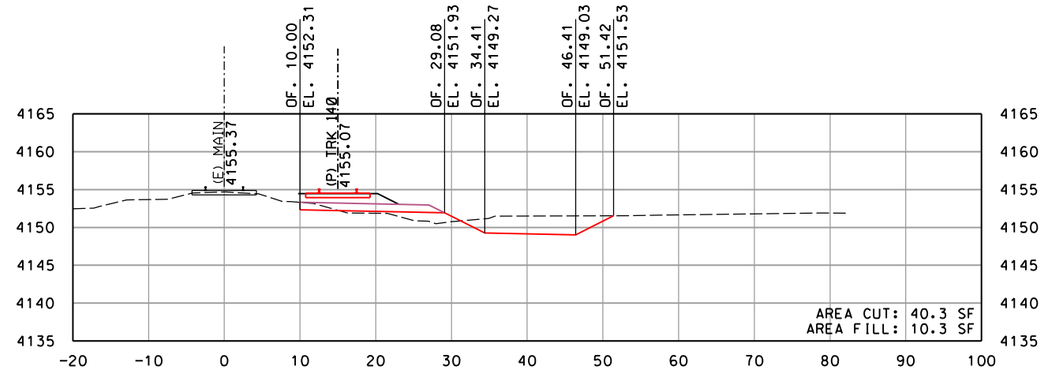
STA. 553+00



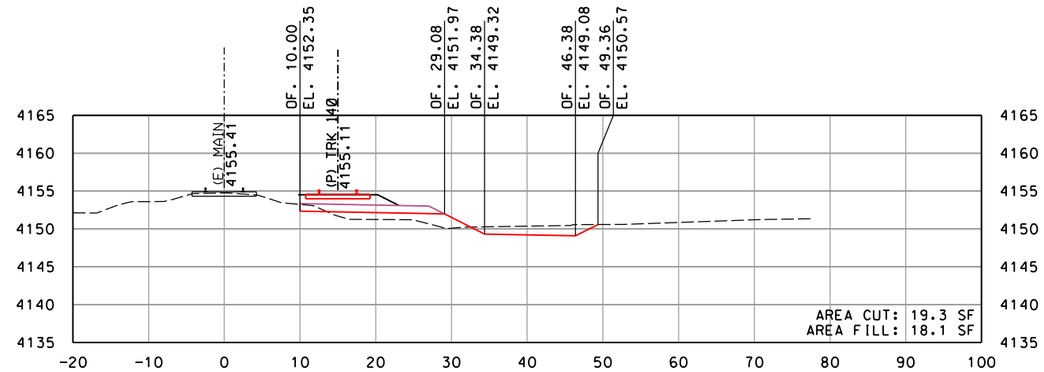
STA. 552+50



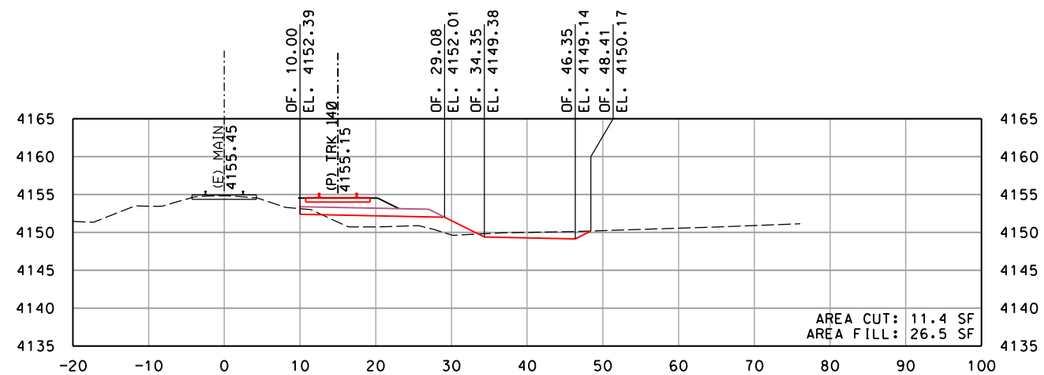
STA. 552+00



STA. 554+50



STA. 554+00



STA. 553+50

GRAPHIC SCALE: 10' 0 5' 10' 20' — 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS, SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 552+00 TO STA. 554+50
SHEET 04 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-04
REVISION
SHEET NO. 022
SCALE AS SHOWN

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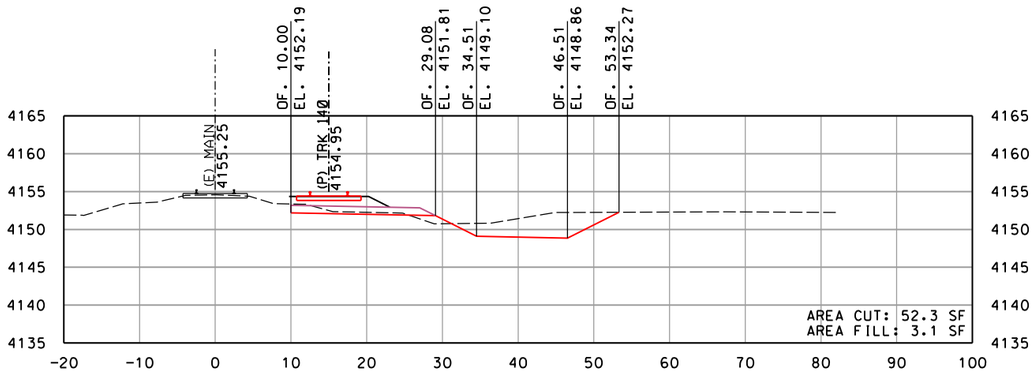
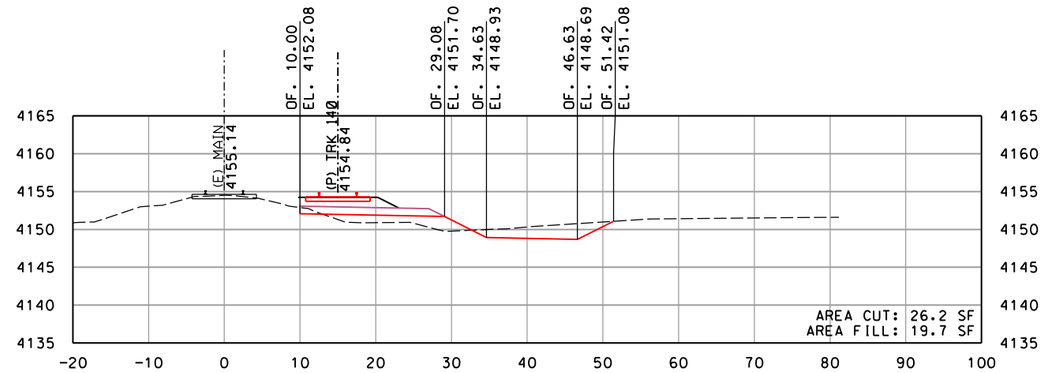
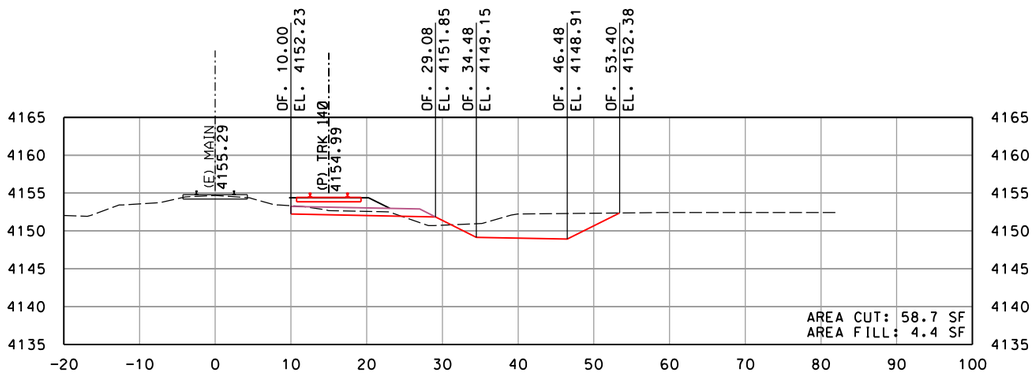
Date: 02\22\2022



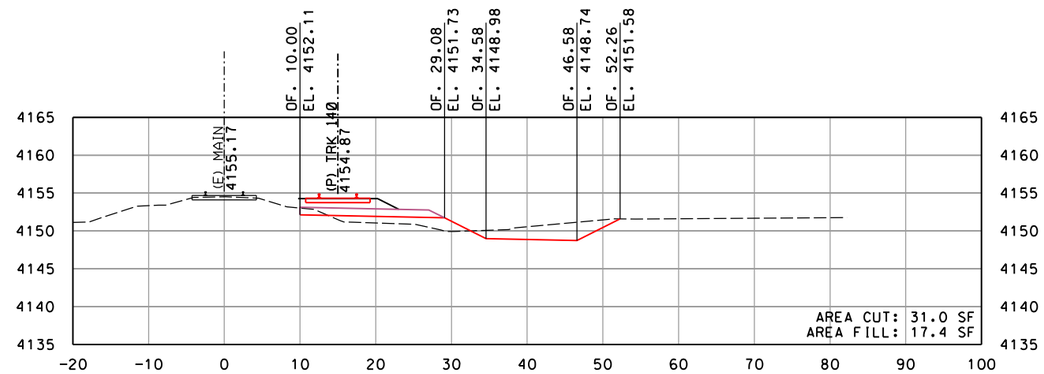
STA. 556+00



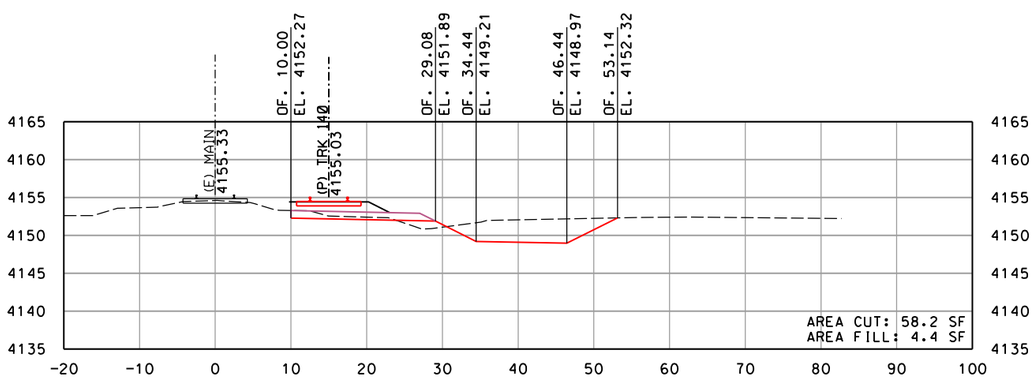
STA. 557+50



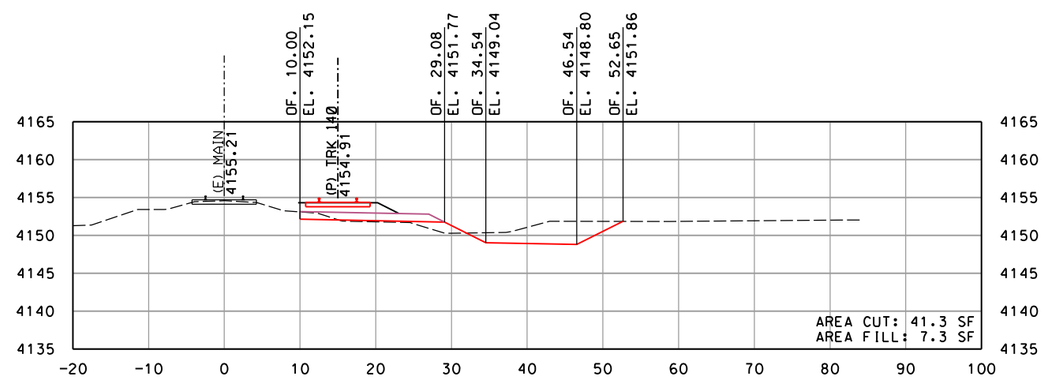
STA. 555+50



STA. 557+00



STA. 555+00



STA. 556+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 555+00 TO STA. 557+50
SHEET 05 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-05
REVISION	
SHEET NO.	023
SCALE	AS SHOWN

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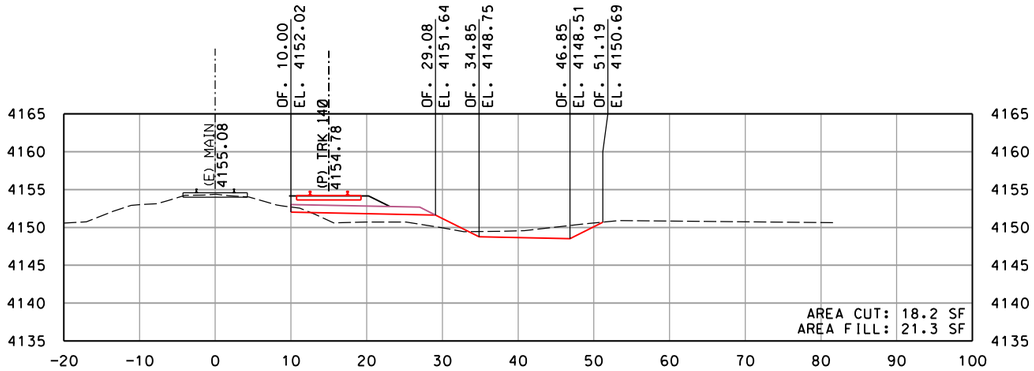
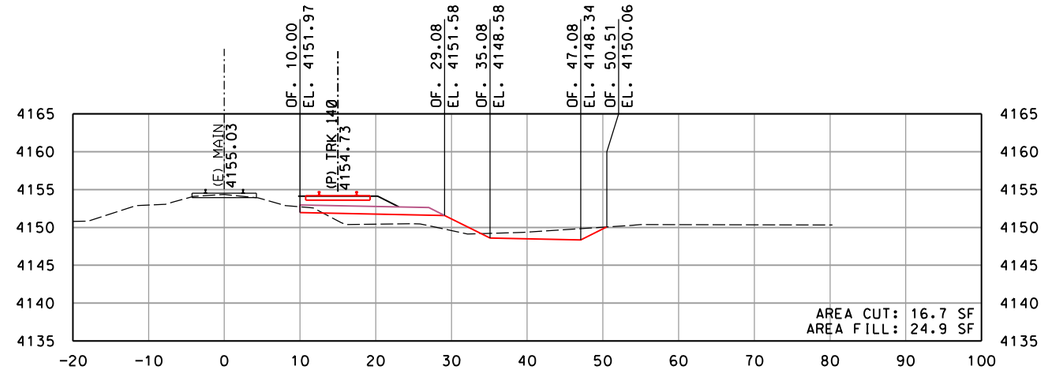
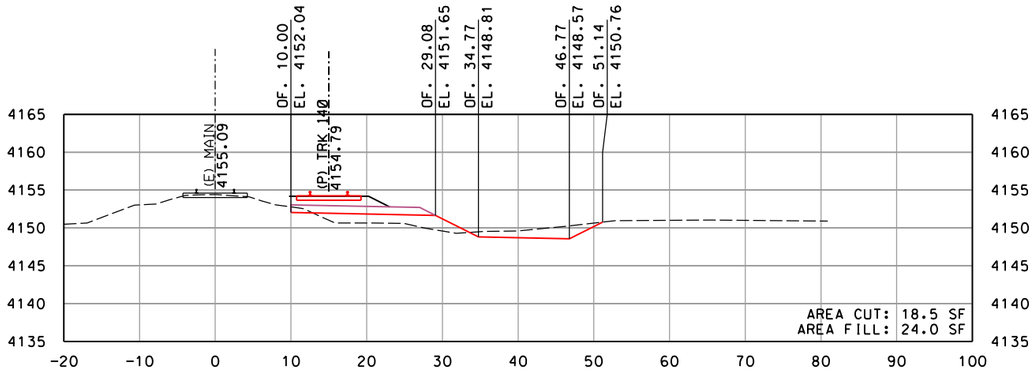
Date: 02\22\2022



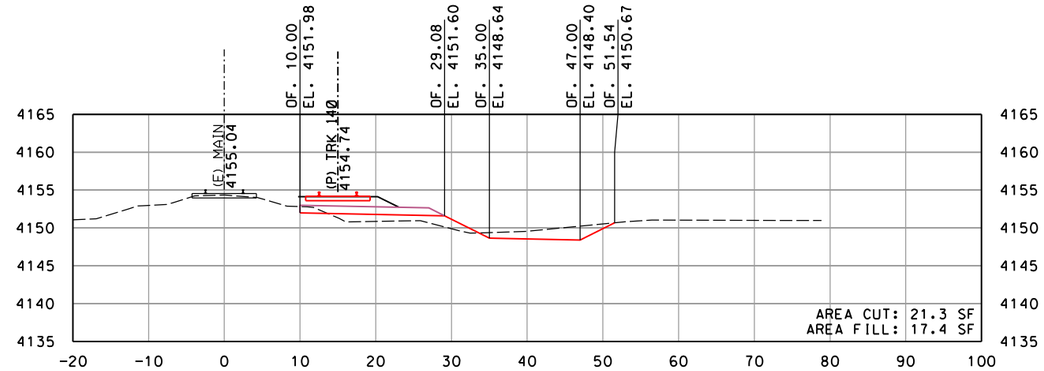
STA. 559+00



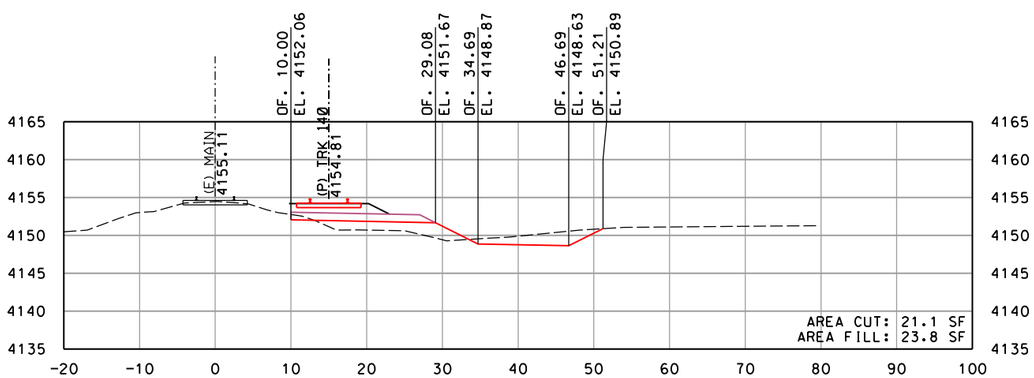
STA. 560+50



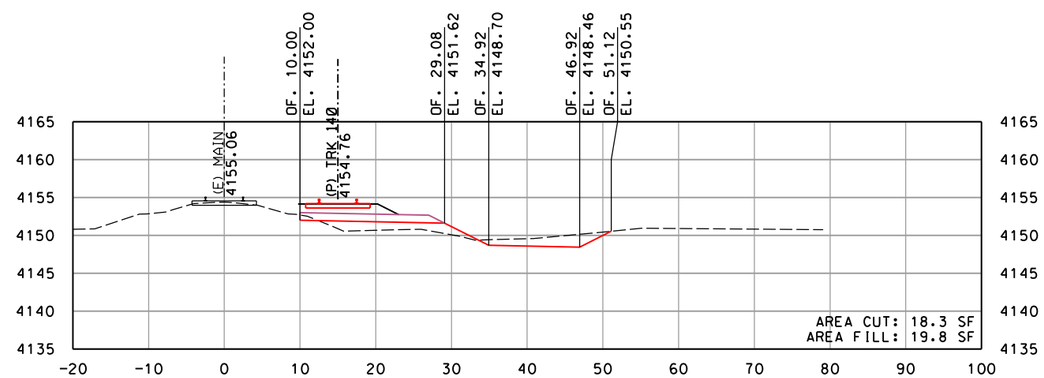
STA. 558+50



STA. 560+00



STA. 558+00



STA. 559+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 558+00 TO STA. 560+50
SHEET 06 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-06
REVISION	
SHEET NO.	024
SCALE	AS SHOWN

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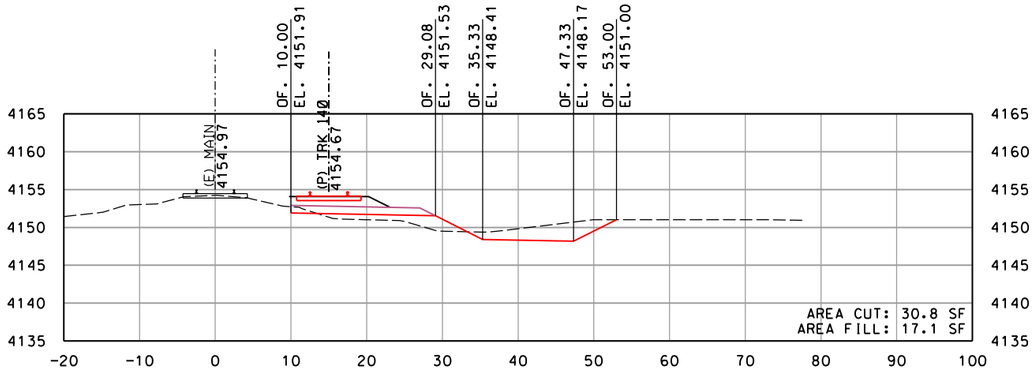
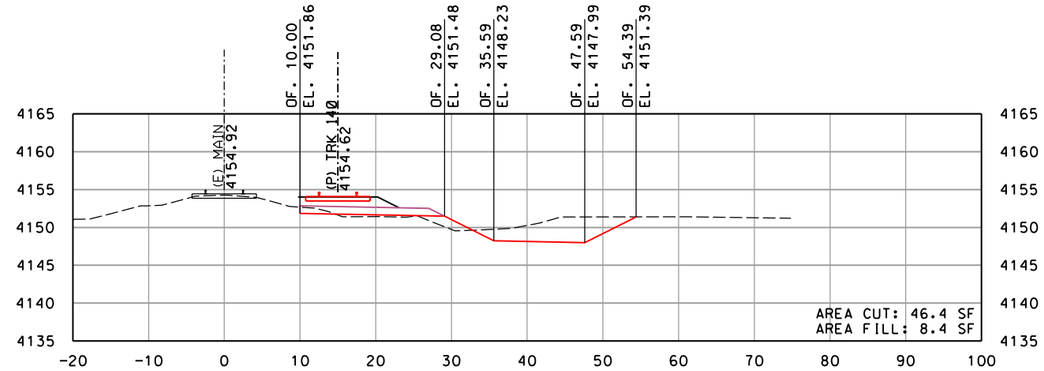
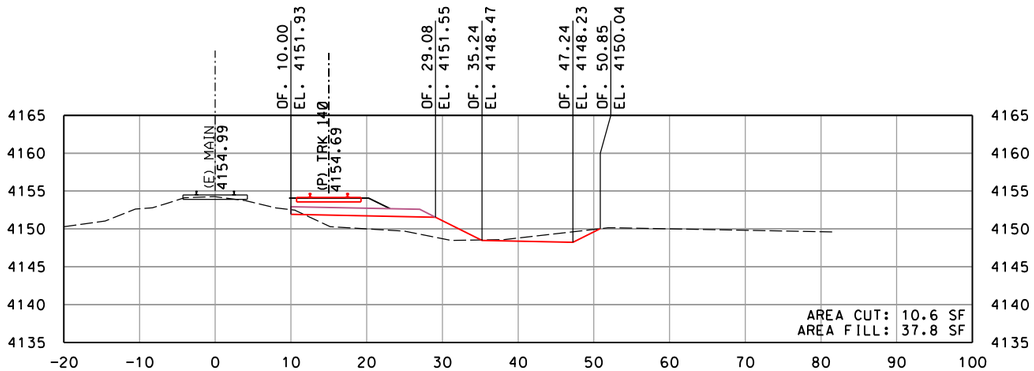
Date: 02\22\2022



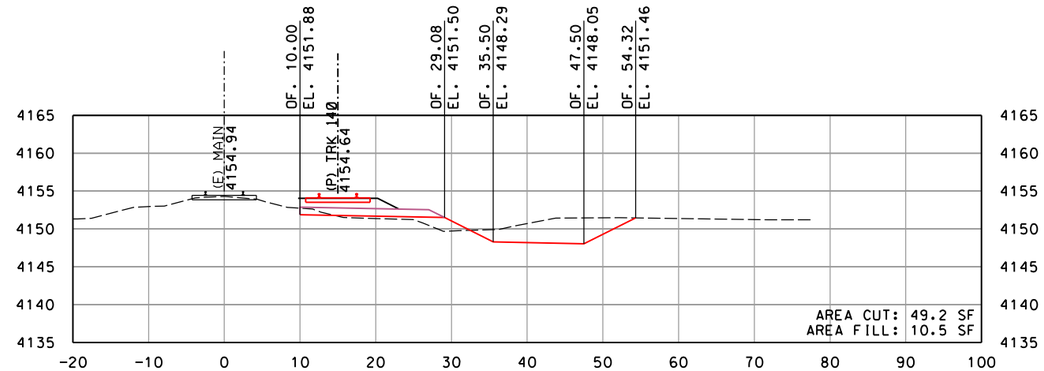
STA. 562+00



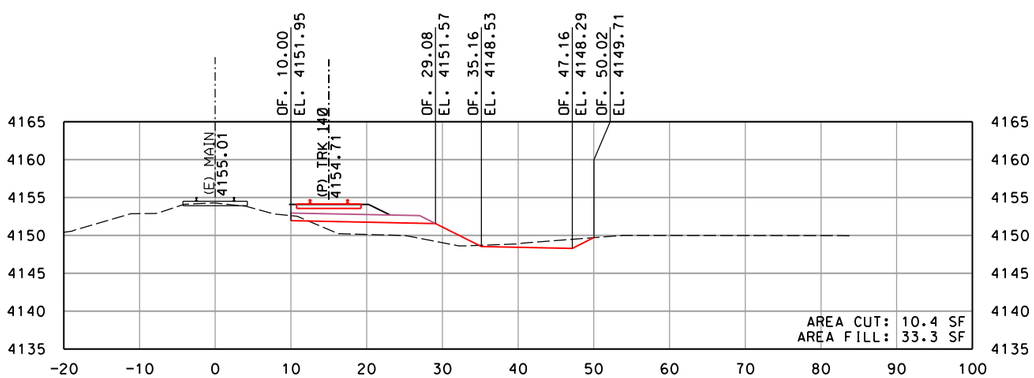
STA. 563+50



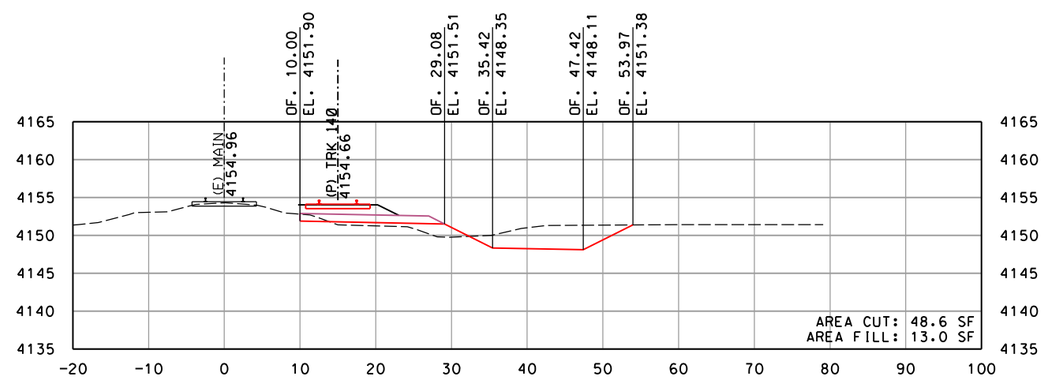
STA. 561+50



STA. 563+00



STA. 561+00



STA. 562+50

GRAPHIC SCALE: 10' 0 5' 10' 20' — 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 561+00 TO STA. 563+50
SHEET 07 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-07
REVISION	
SHEET NO.	025
SCALE	AS SHOWN

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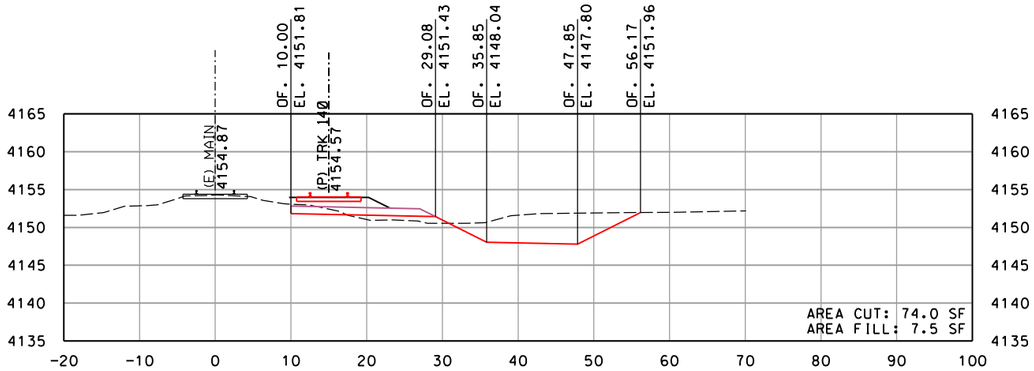
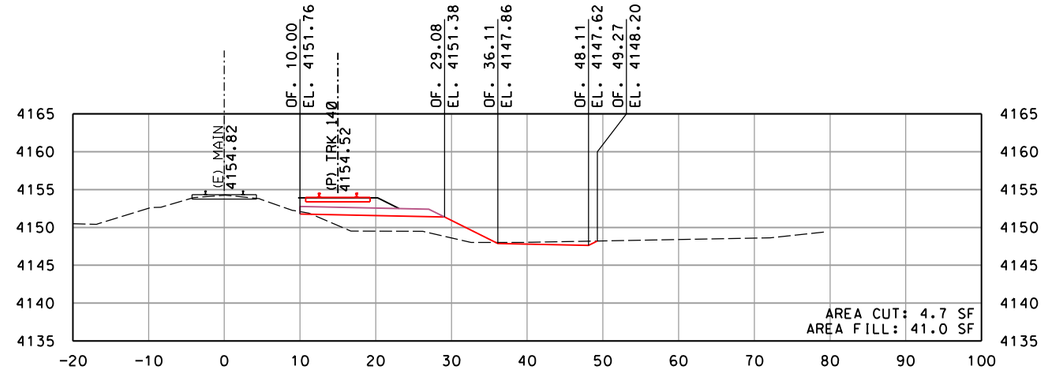
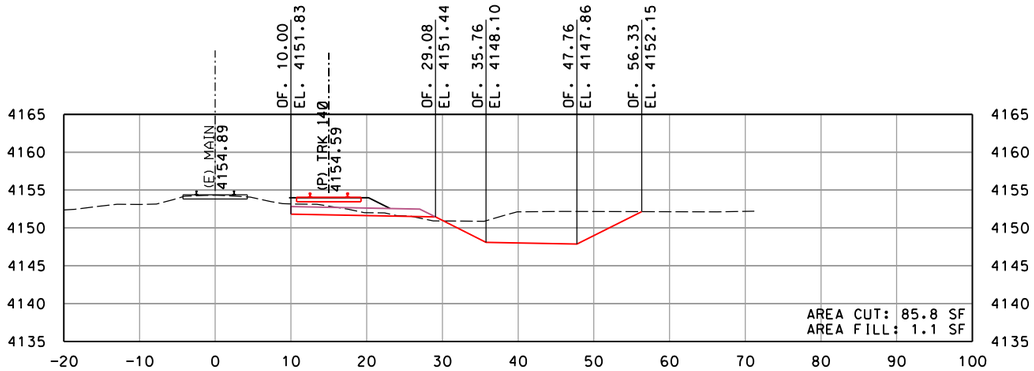
Date: 02\22\2022



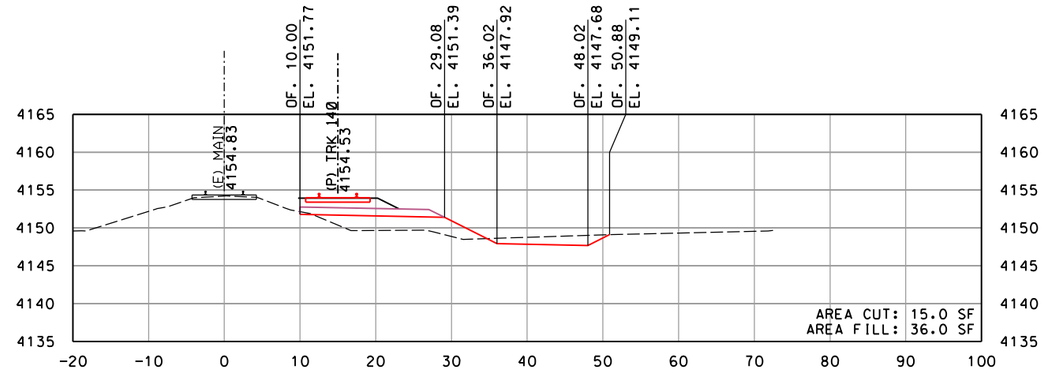
STA. 565+00



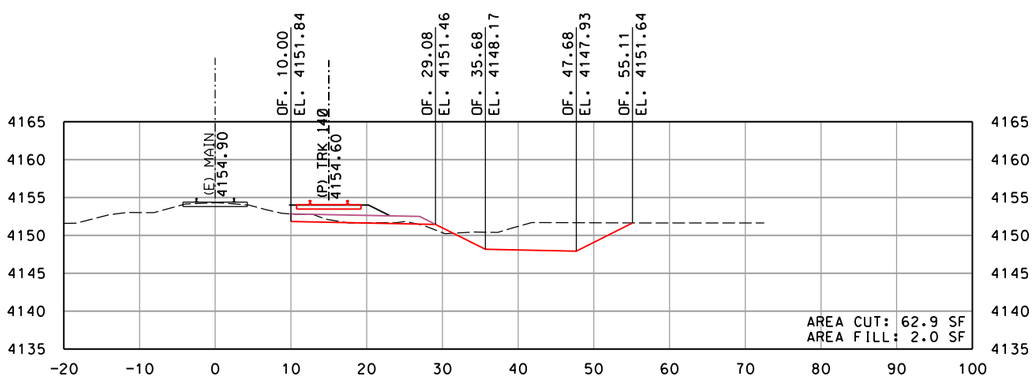
STA. 566+50



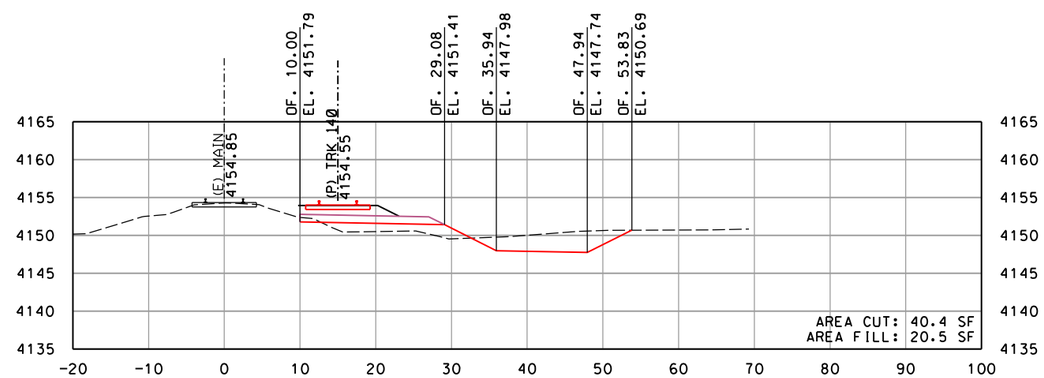
STA. 564+50



STA. 566+00



STA. 564+00



STA. 565+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 564+00 TO STA. 566+50
SHEET 08 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-08
REVISION	
SHEET NO.	026
SCALE	AS SHOWN

Plot driver: WATCO_pdf_300dpi.pltcfg
Pen table: Watco_Railway.tbl
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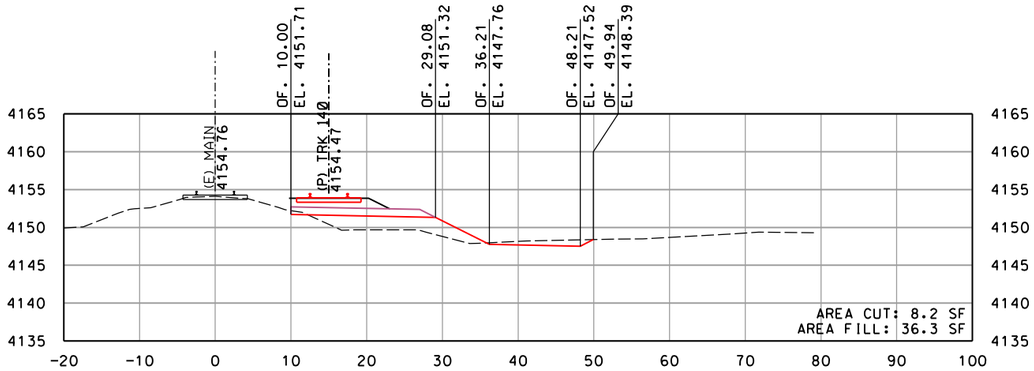
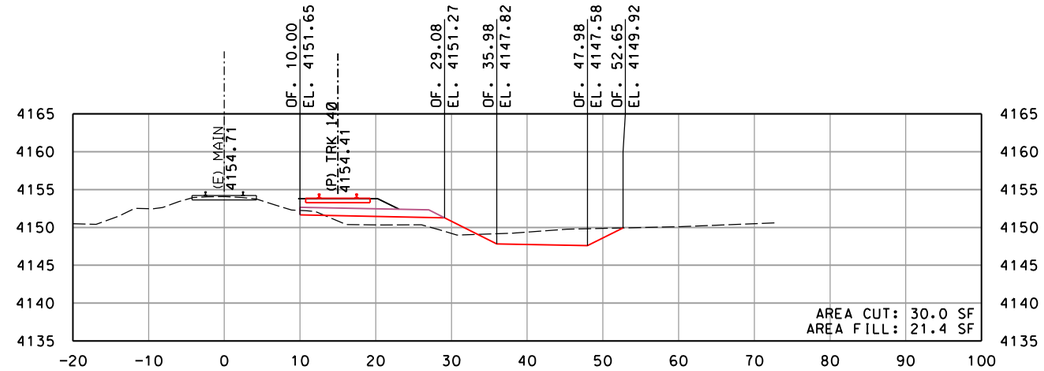
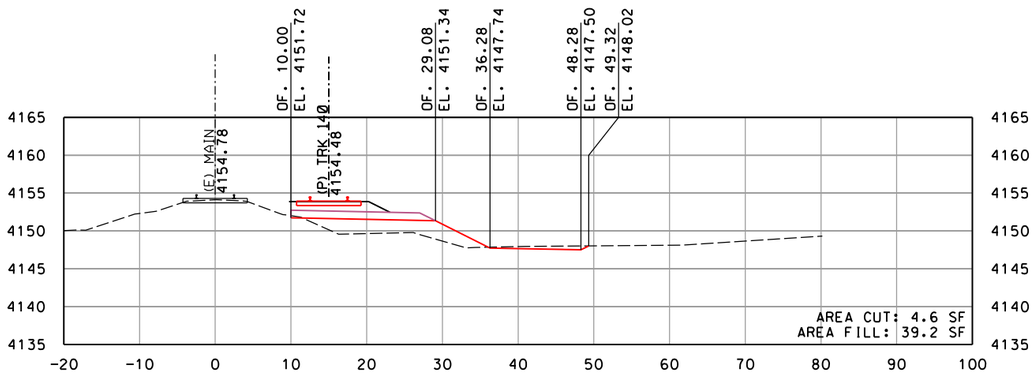
Date: 02\22\2022



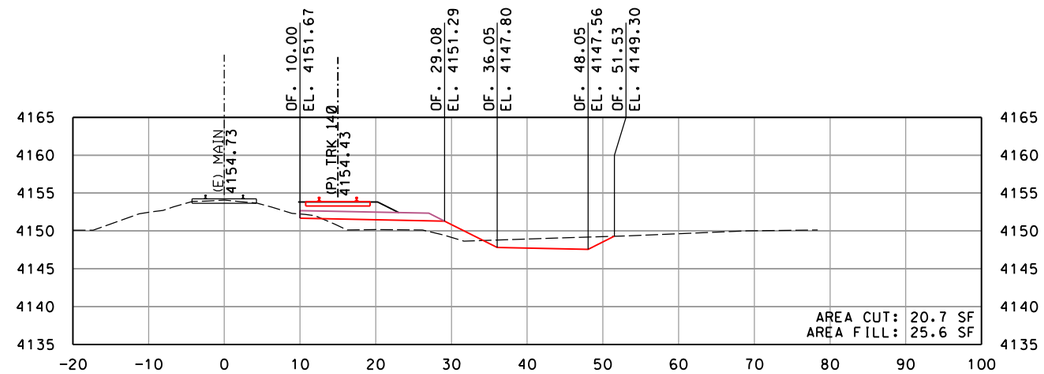
STA. 568+00



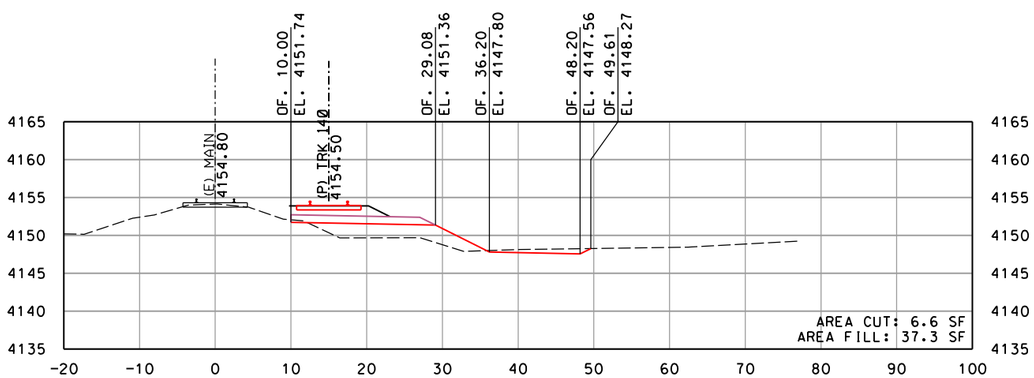
STA. 569+50



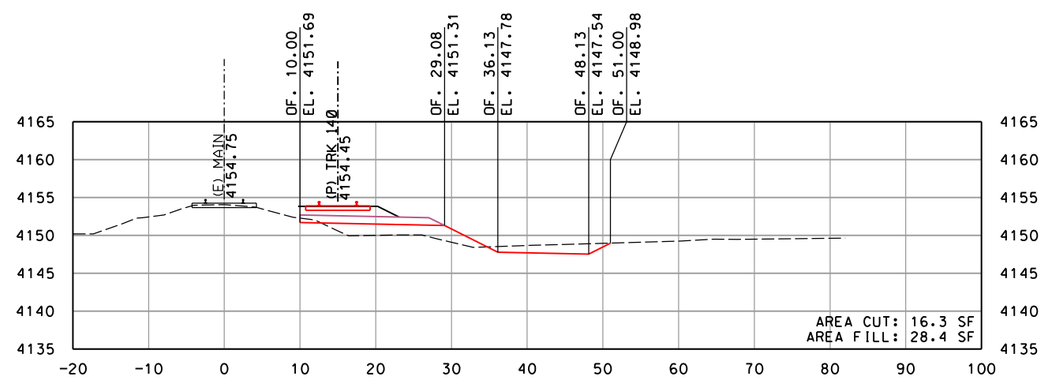
STA. 567+50



STA. 569+00



STA. 567+00



STA. 568+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 567+00 TO STA. 569+50
SHEET 09 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-09
REVISION
SHEET NO. 027
SCALE AS SHOWN

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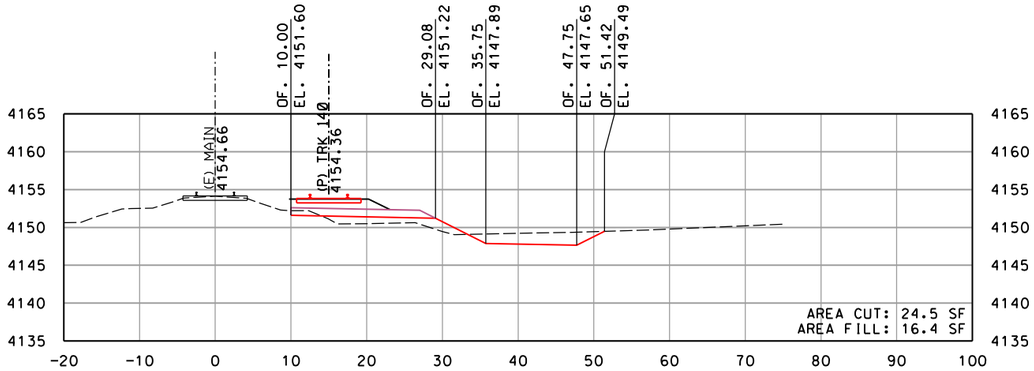
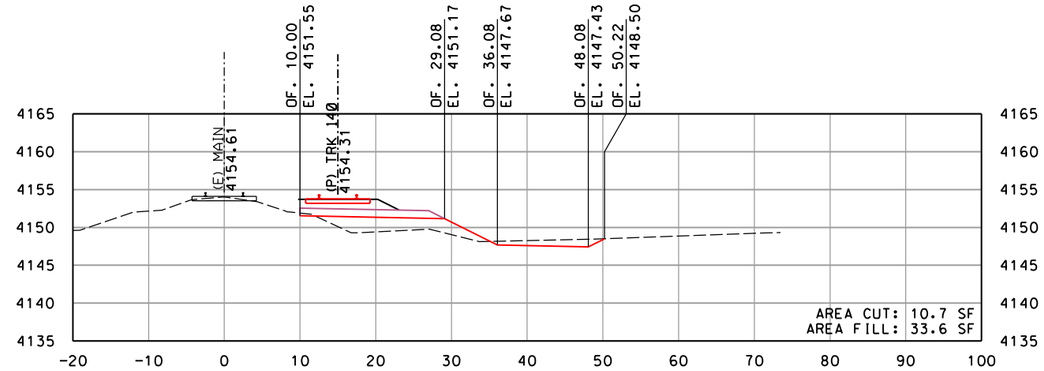
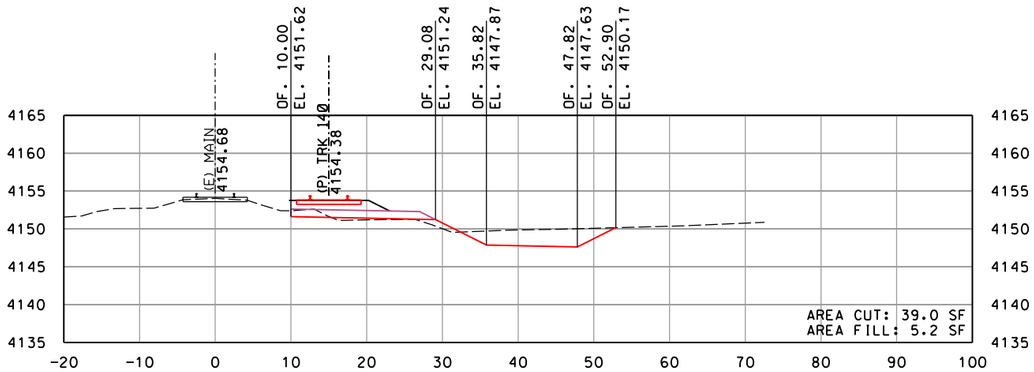
Date: 02\22\2022



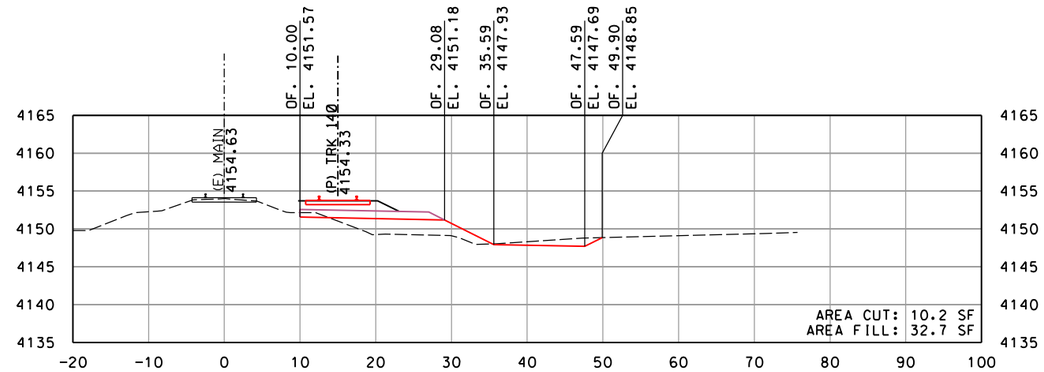
STA. 571+00



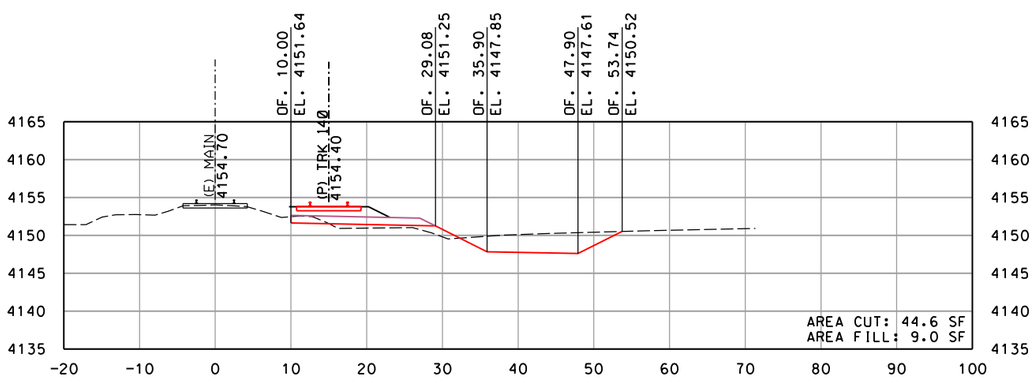
STA. 572+50



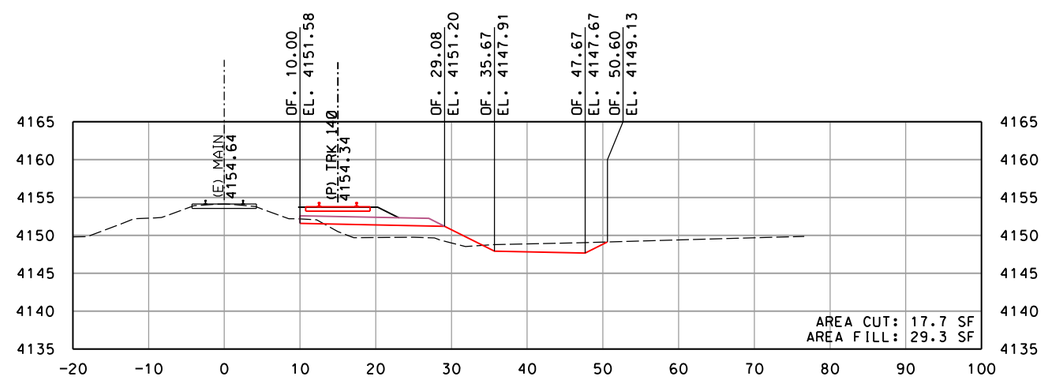
STA. 570+50



STA. 572+00



STA. 570+00



STA. 571+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

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DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 570+00 TO STA. 572+50
SHEET 10 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-10
REVISION
SHEET NO. 028
SCALE AS SHOWN

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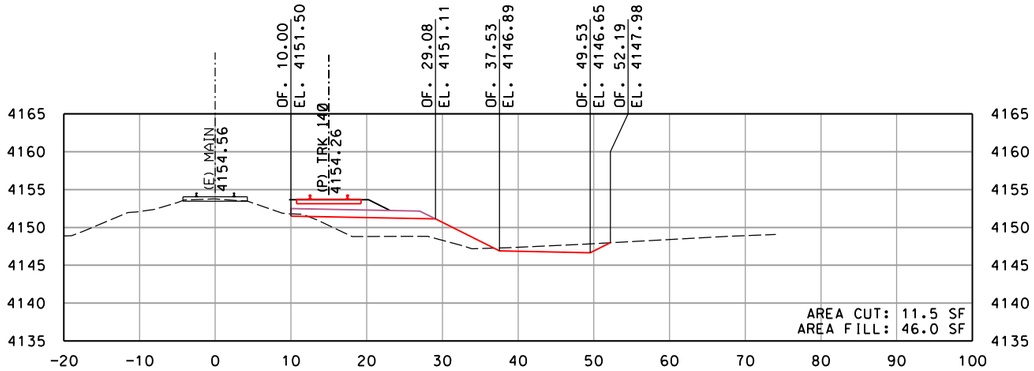
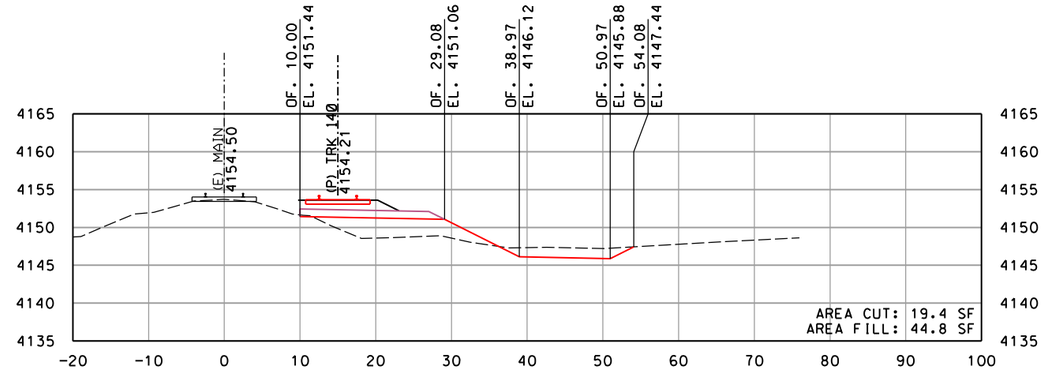
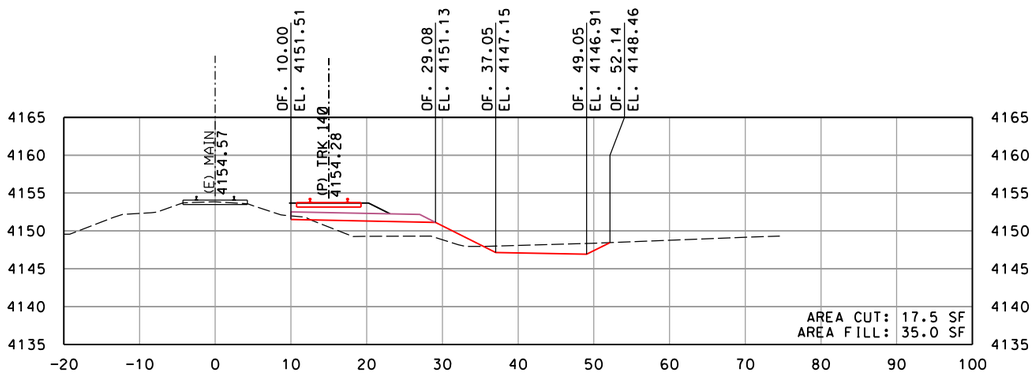
Date: 02\22\2022



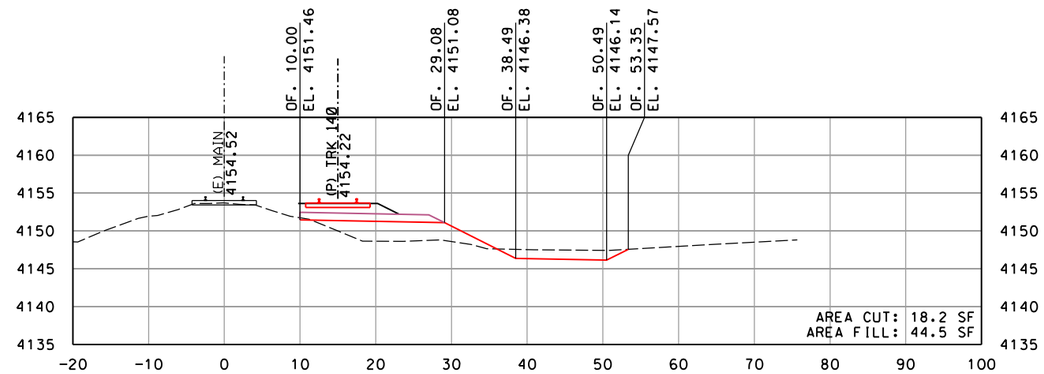
STA. 574+00



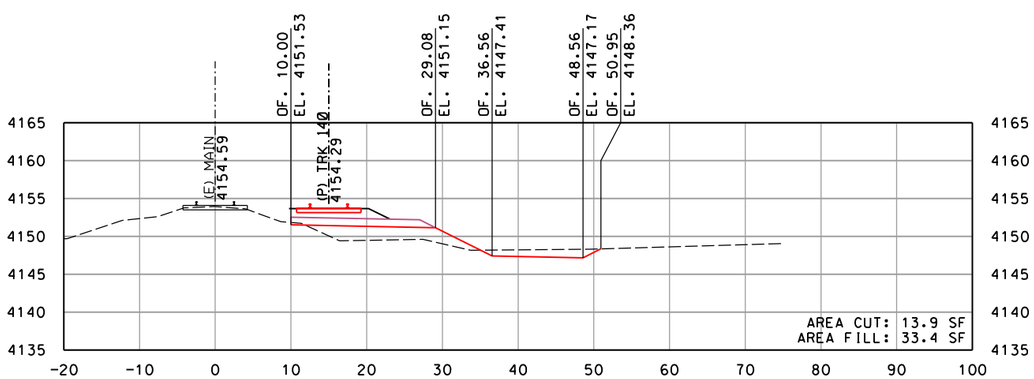
STA. 575+50



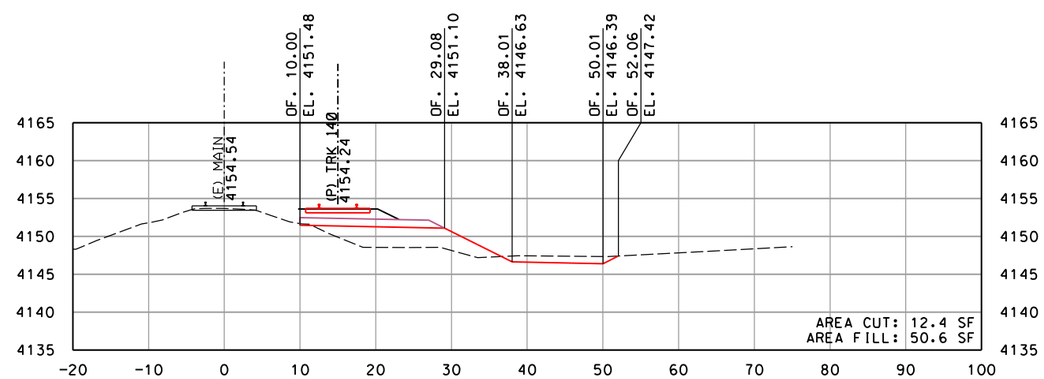
STA. 573+50



STA. 575+00



STA. 573+00



STA. 574+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 573+00 TO STA. 575+50
SHEET 11 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-11
REVISION
SHEET NO. 029
SCALE AS SHOWN

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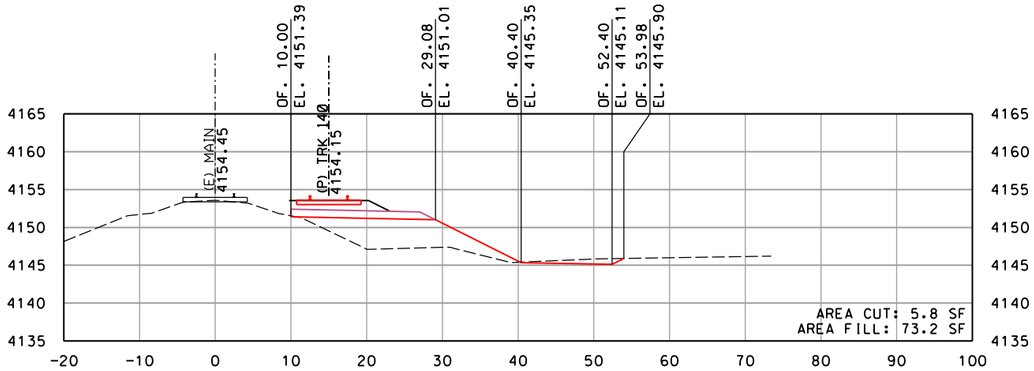
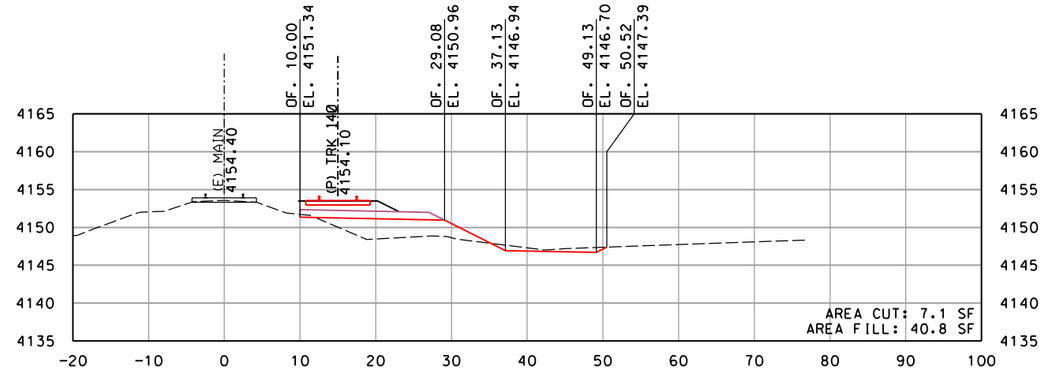
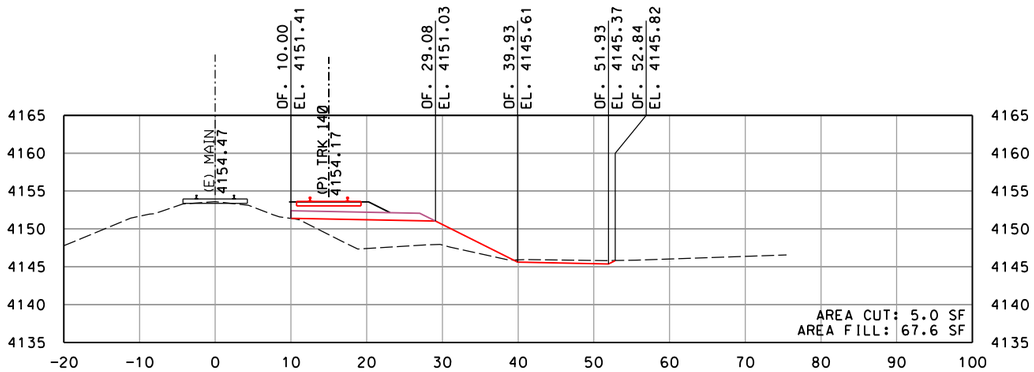
Time: 1:56:24 PM
Date: 02\22\2022



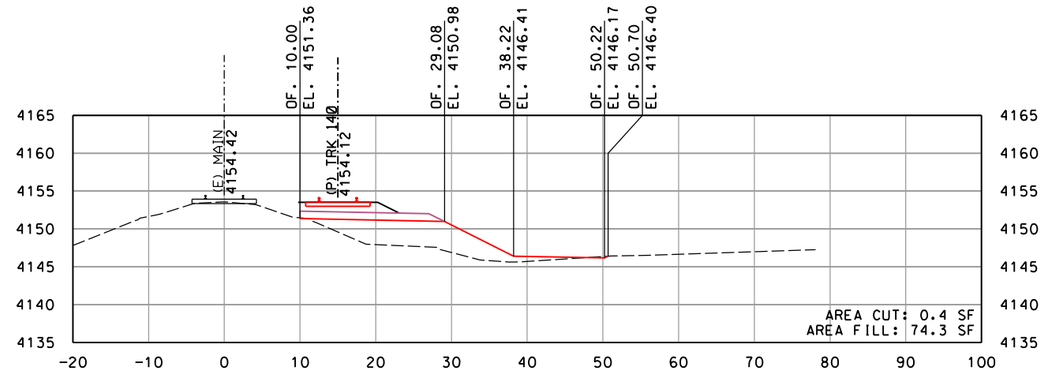
STA. 577+00



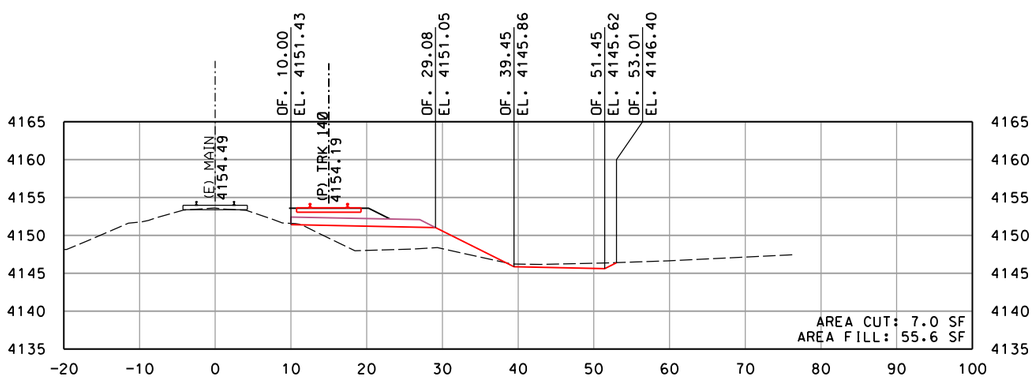
STA. 578+50



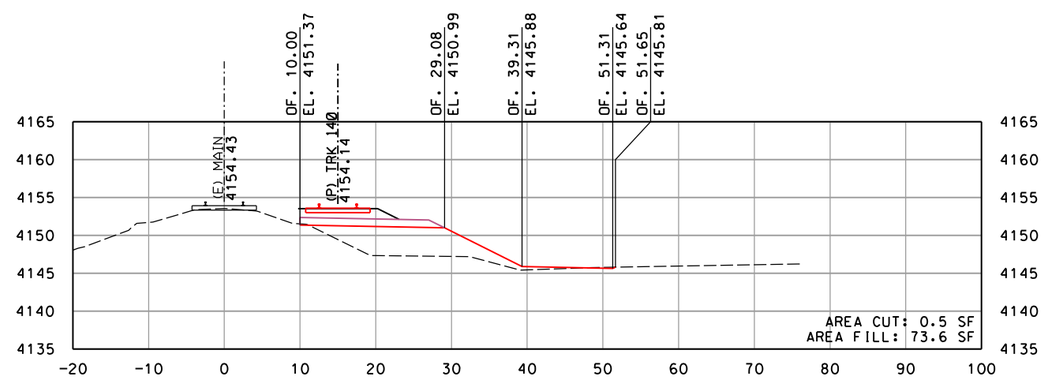
STA. 576+50



STA. 578+00



STA. 576+00



STA. 577+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 576+00 TO STA. 578+50
SHEET 12 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-12
REVISION	
SHEET NO.	030
SCALE	AS SHOWN

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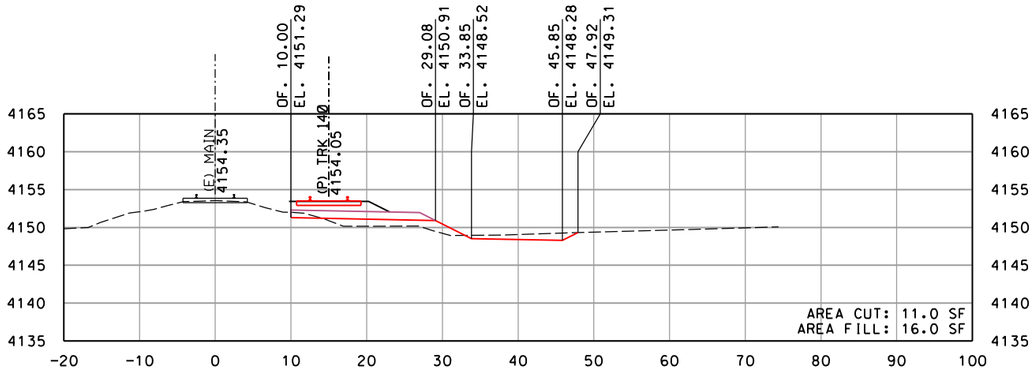
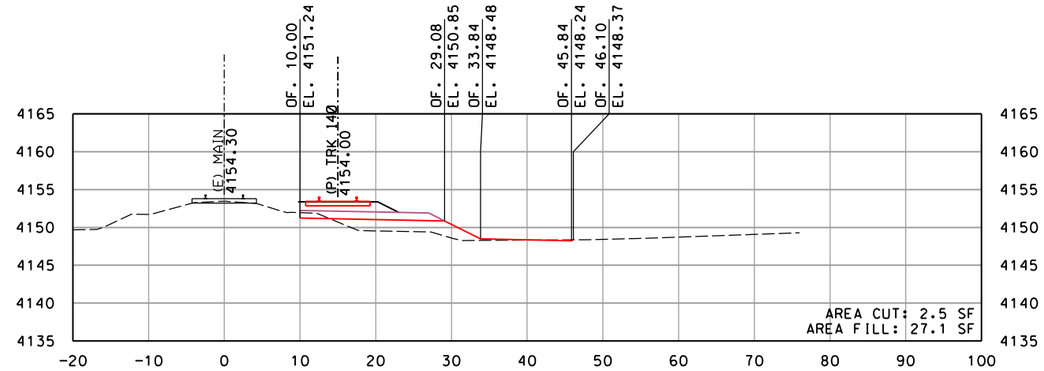
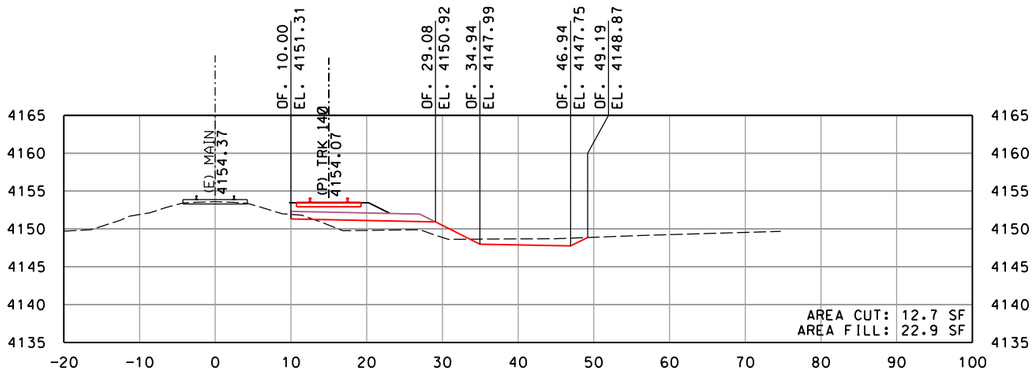
Date: 02\22\2022



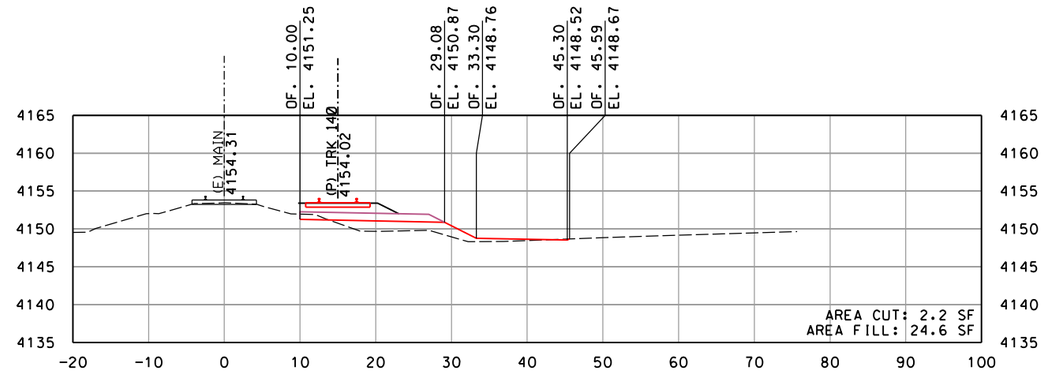
STA. 580+00



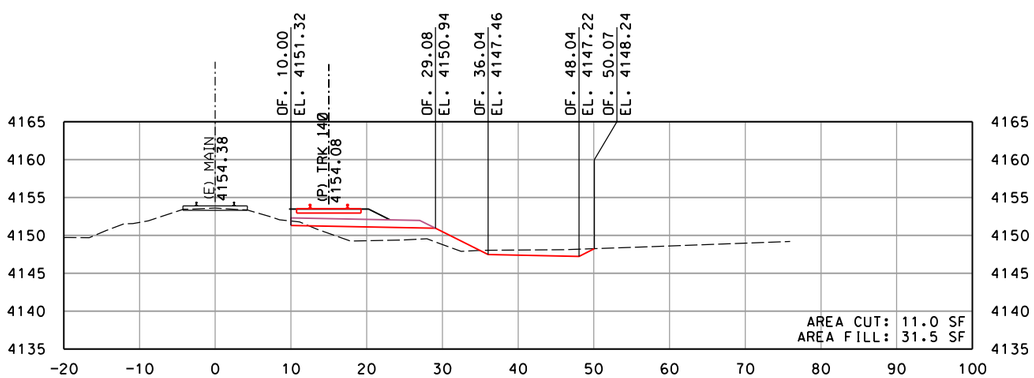
STA. 581+50



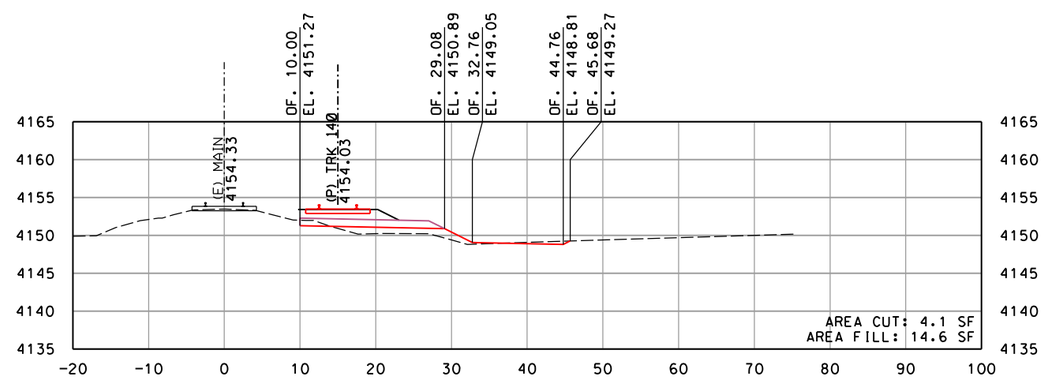
STA. 579+50



STA. 581+00



STA. 579+00



STA. 580+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 579+00 TO STA. 581+50
SHEET 13 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-13
REVISION	
SHEET NO.	031
SCALE	AS SHOWN

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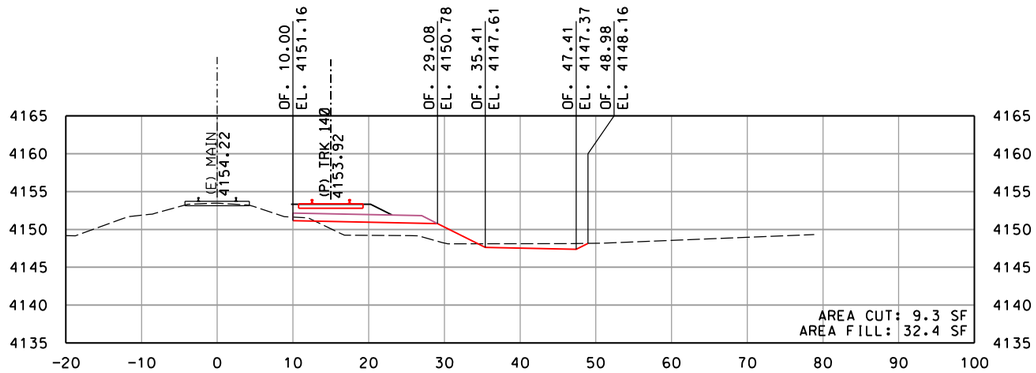
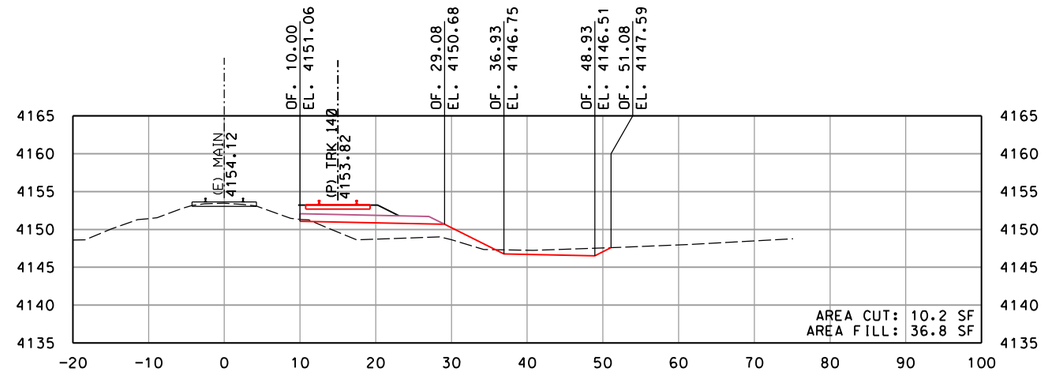
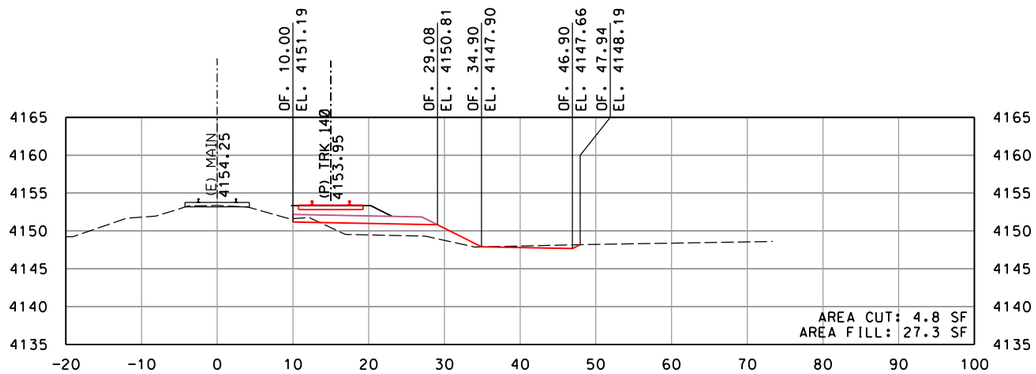
Date: 02\22\2022



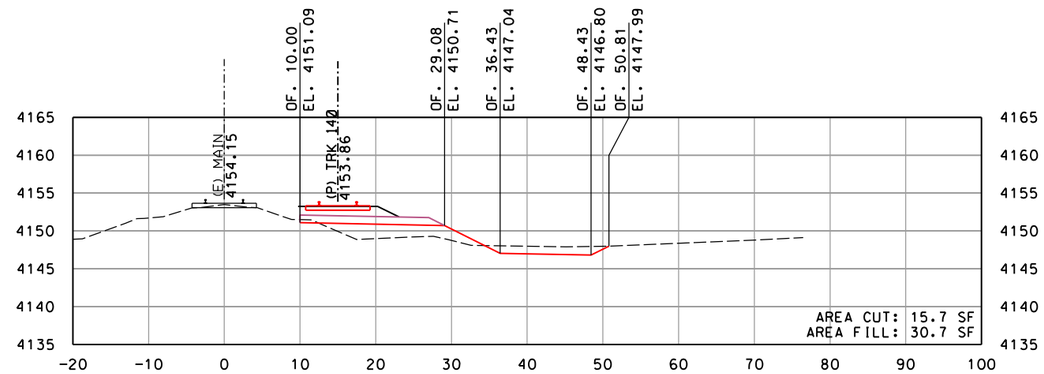
STA. 583+00



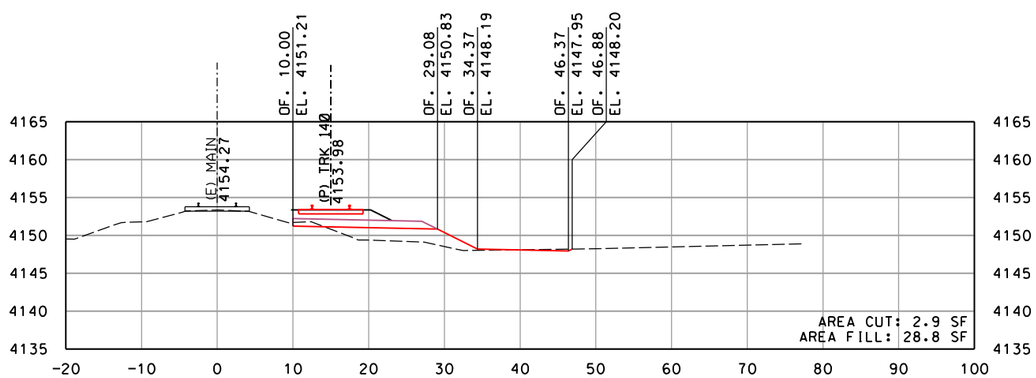
STA. 584+50



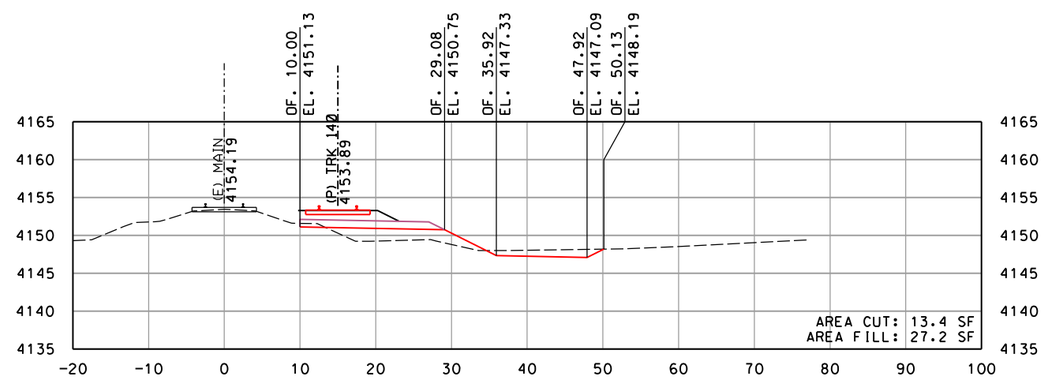
STA. 582+50



STA. 584+00



STA. 582+00



STA. 583+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

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DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 582+00 TO STA. 584+50
SHEET 14 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-14
REVISION
SHEET NO. 032
SCALE AS SHOWN

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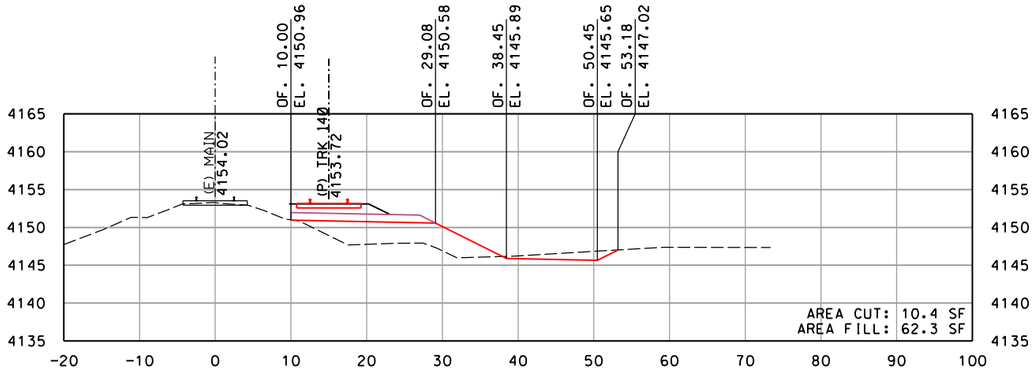
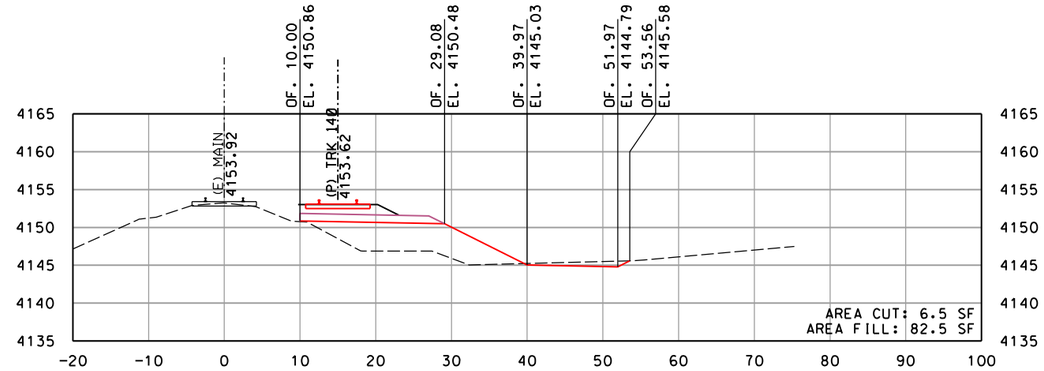
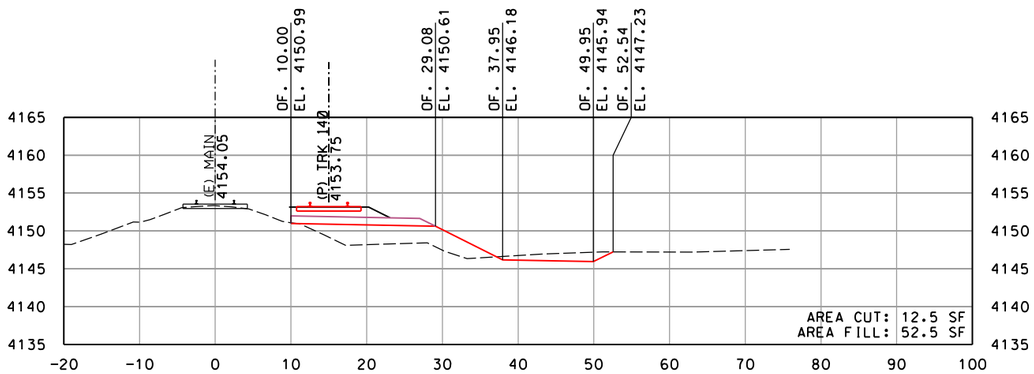
Date: 02\22\2022



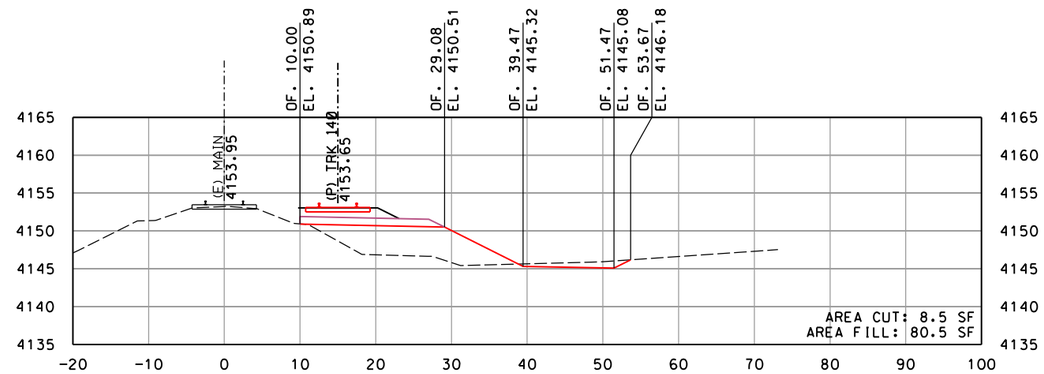
STA. 586+00



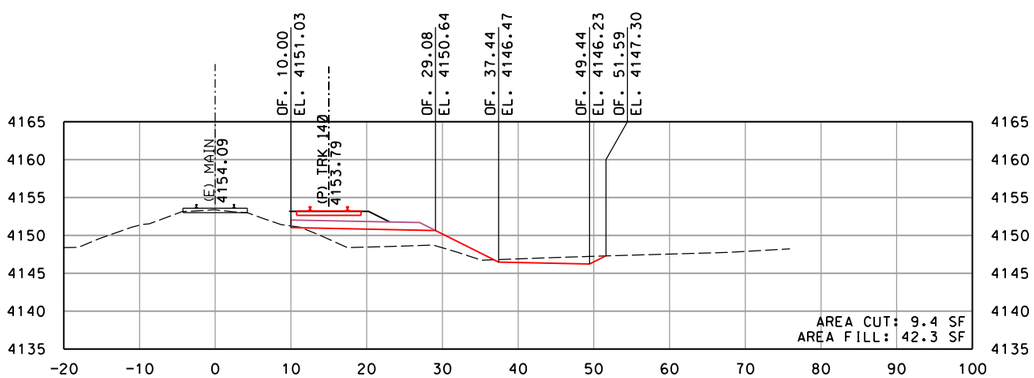
STA. 587+50



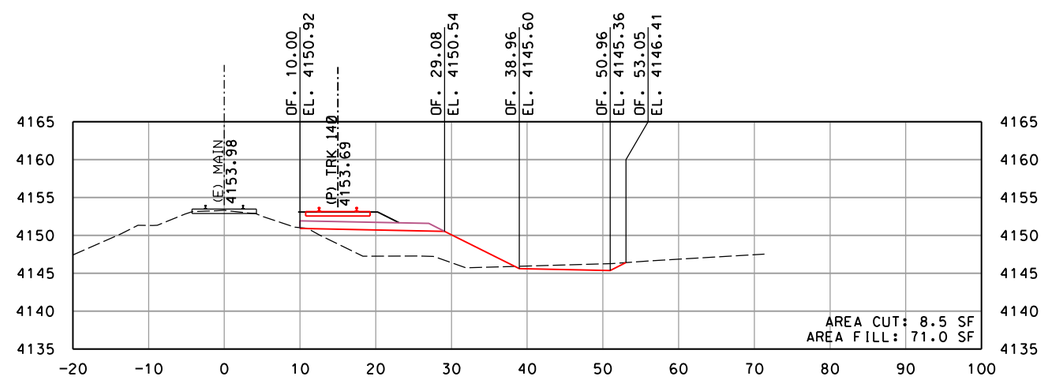
STA. 585+50



STA. 587+00



STA. 585+00



STA. 586+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 585+00 TO STA. 587+50
SHEET 15 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-15
REVISION
SHEET NO. 033
SCALE AS SHOWN

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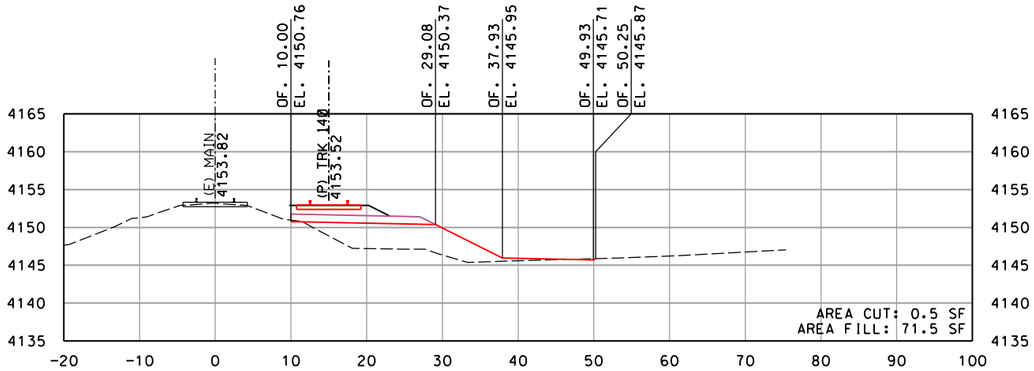
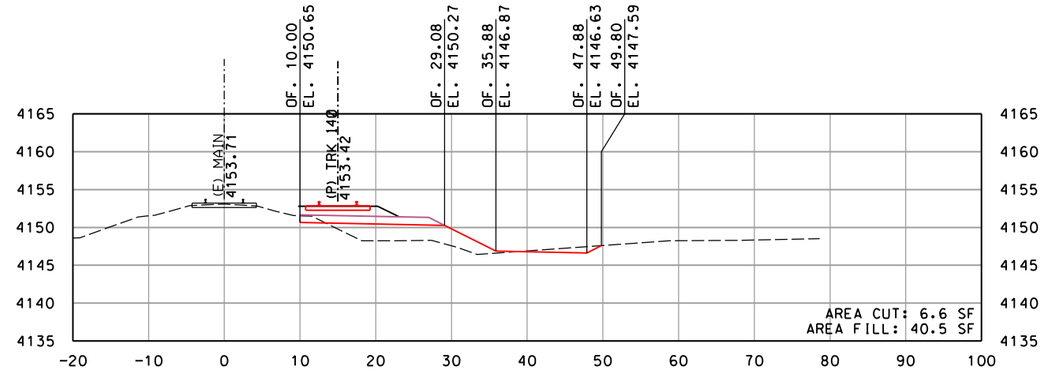
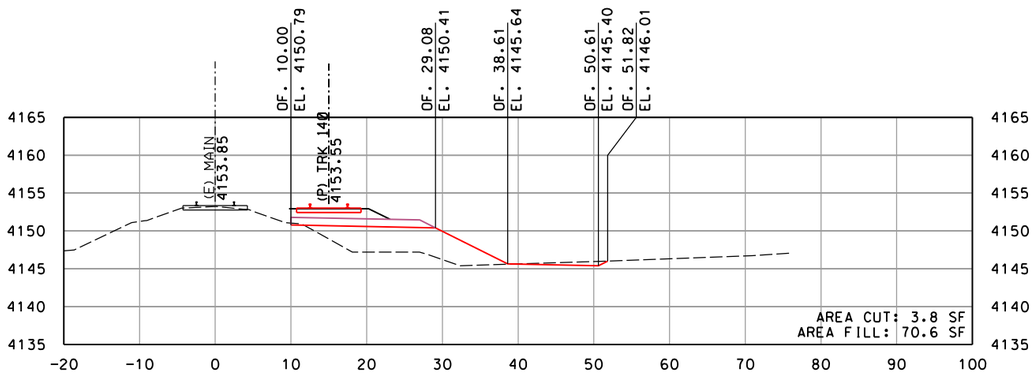
Time: 1:56:26 PM
Date: 02\22\2022



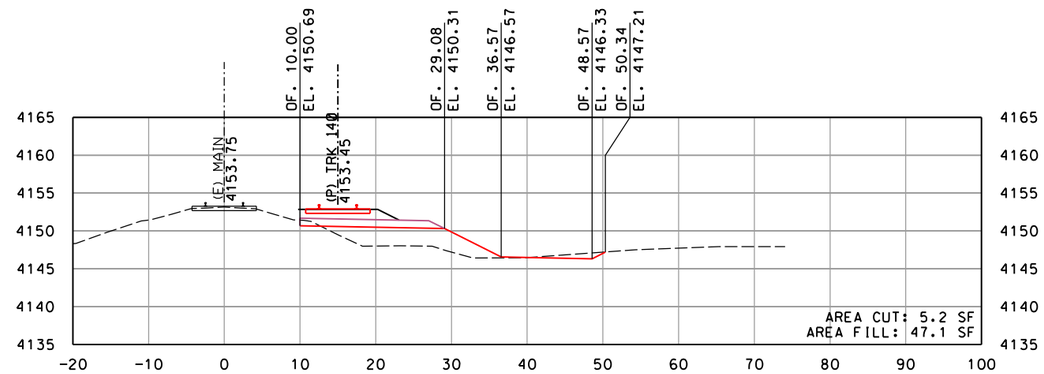
STA. 589+00



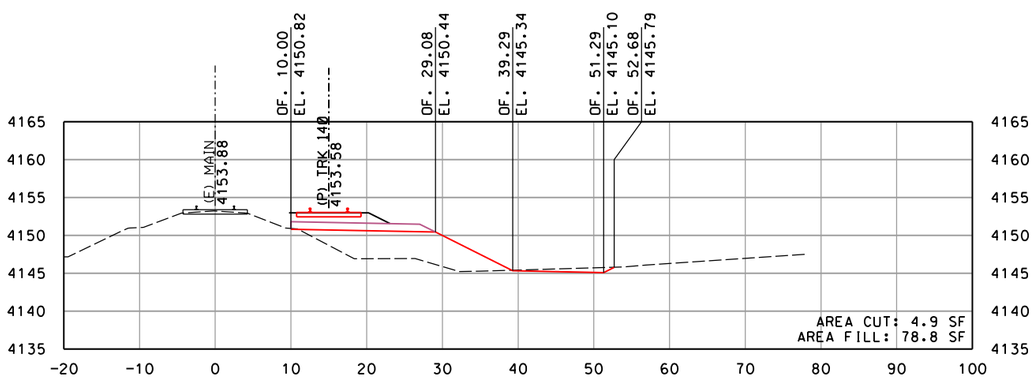
STA. 590+50



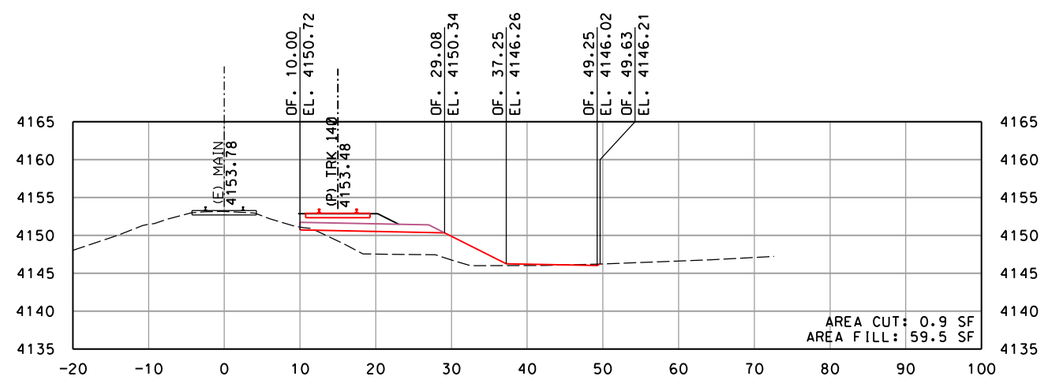
STA. 588+50



STA. 590+00



STA. 588+00



STA. 589+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 588+00 TO STA. 590+50
SHEET 16 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-16
REVISION	
SHEET NO.	034
SCALE	AS SHOWN

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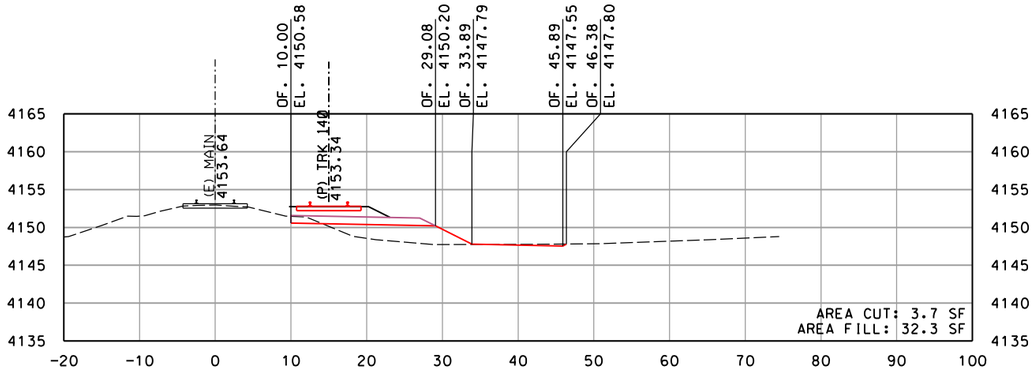
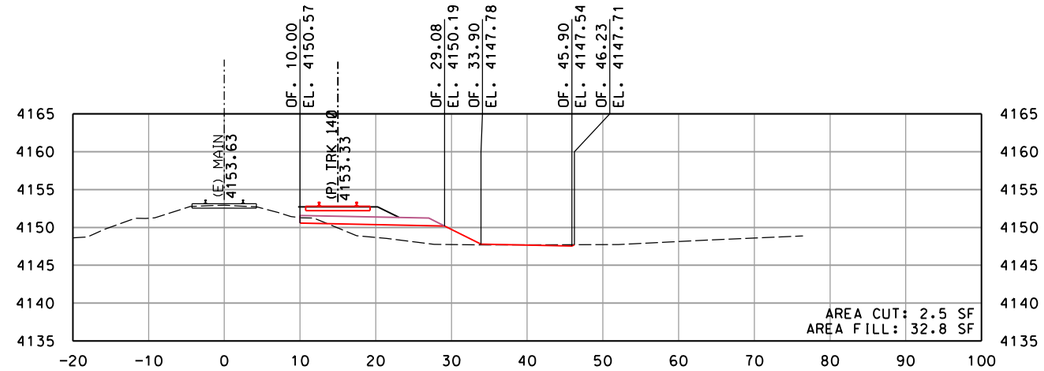
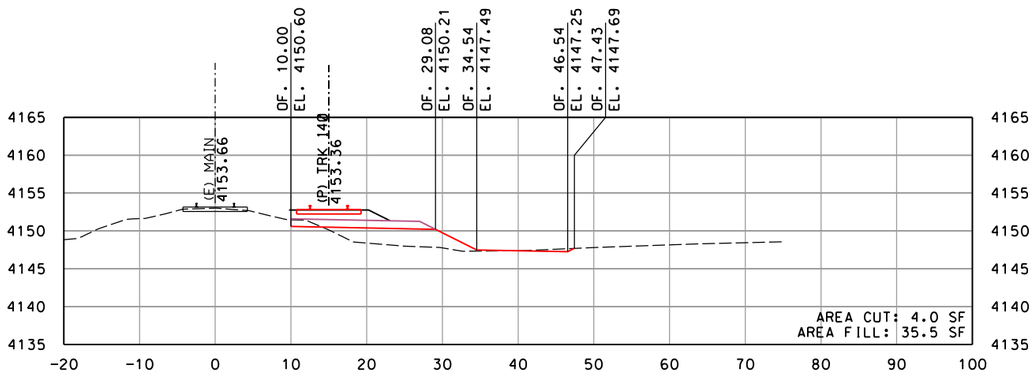
Time: 1:56:26 PM
Date: 02\22\2022



STA. 592+00



STA. 593+50



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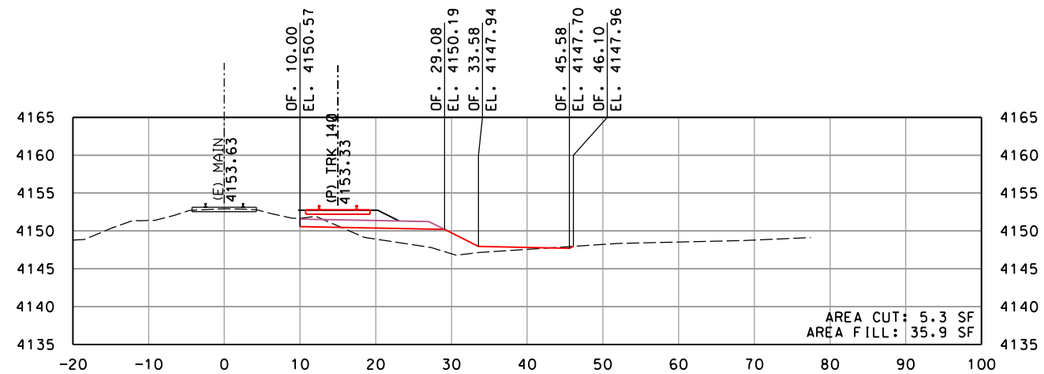
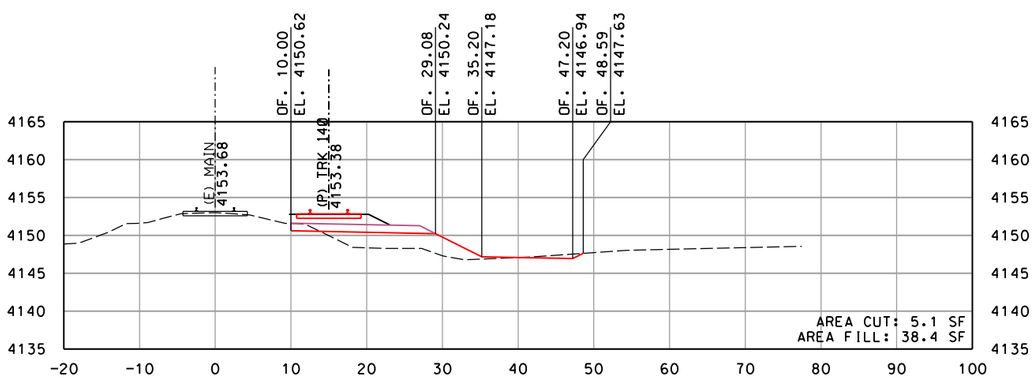
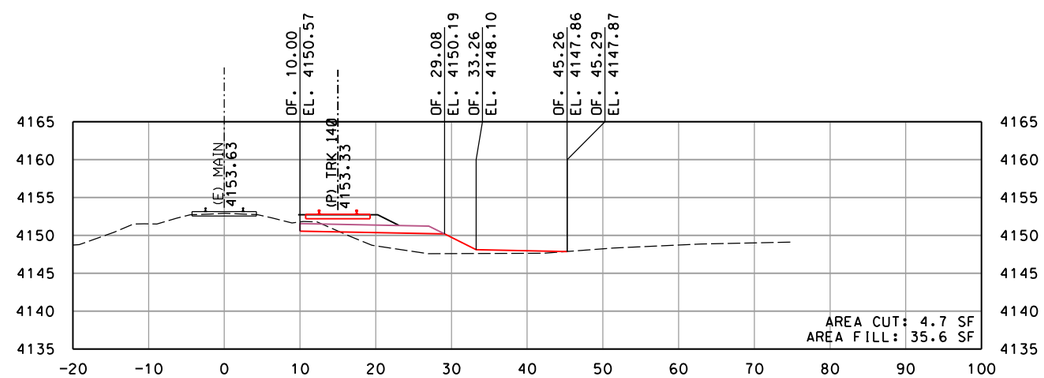


STA. 593+00



STA. 591+00



STA. 592+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 591+00 TO STA. 593+50
SHEET 17 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-17
REVISION
SHEET NO. 035
SCALE AS SHOWN

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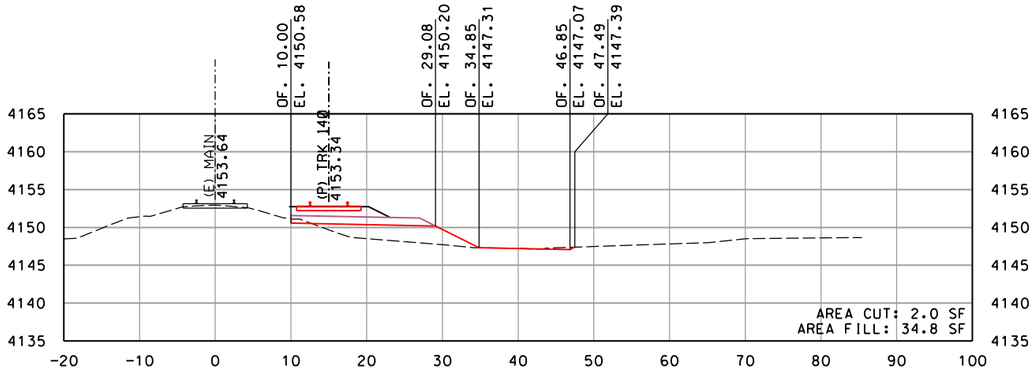
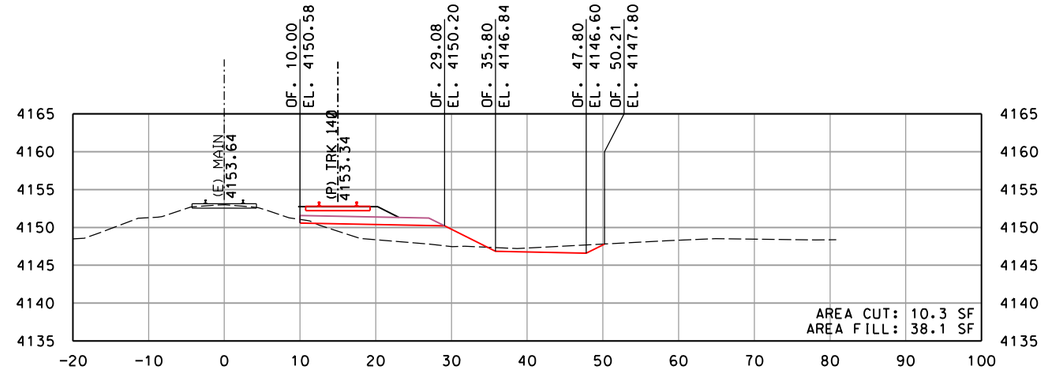
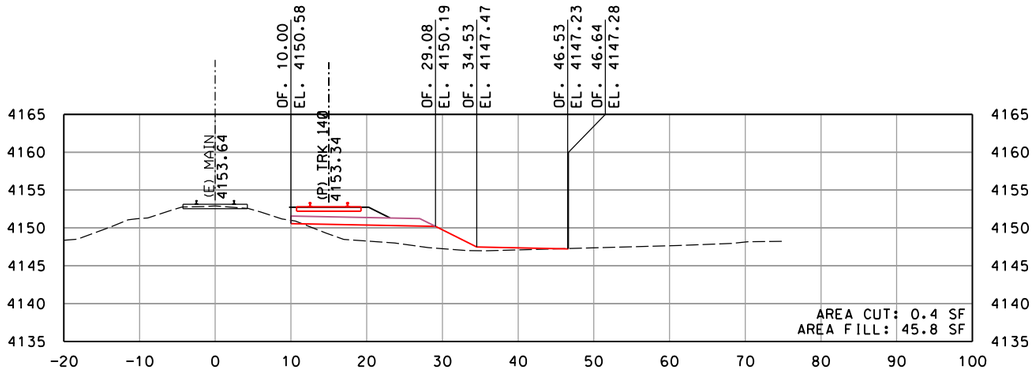
Time: 1:56:26 PM
Date: 02\22\2022



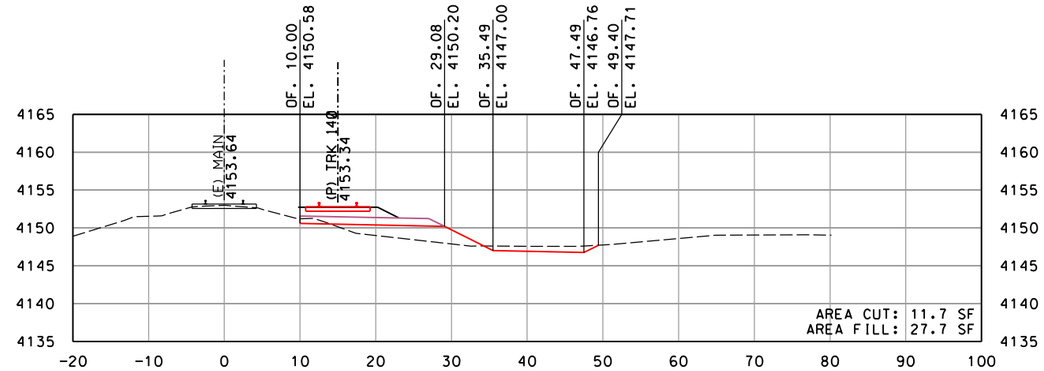
STA. 595+00



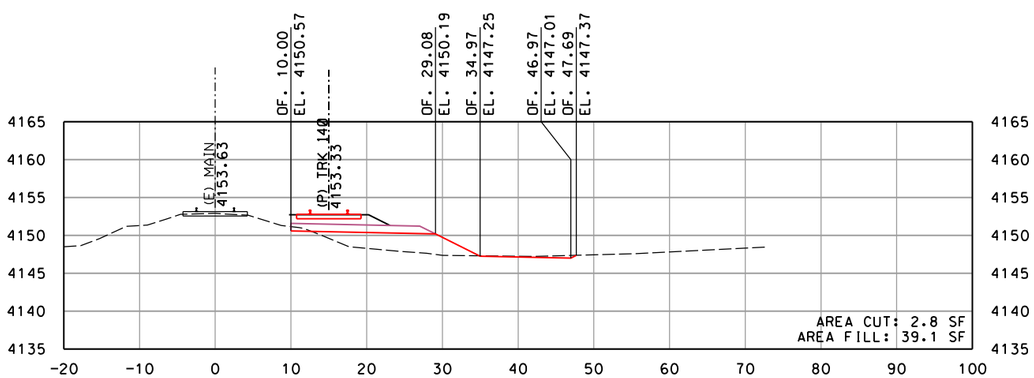
STA. 596+50



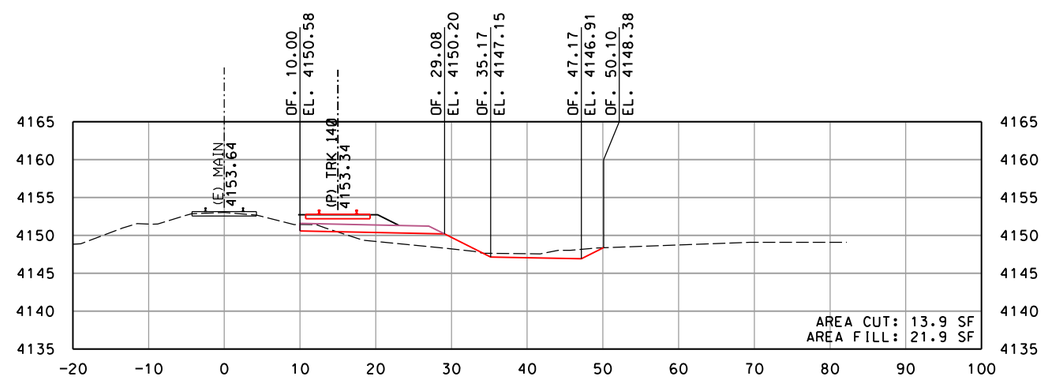
STA. 594+50



STA. 596+00



STA. 594+00



STA. 595+50

GRAPHIC SCALE: 10' 0 5' 10' 20' — 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 594+00 TO STA. 596+50
SHEET 18 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-18
REVISION
SHEET NO. 036
SCALE AS SHOWN

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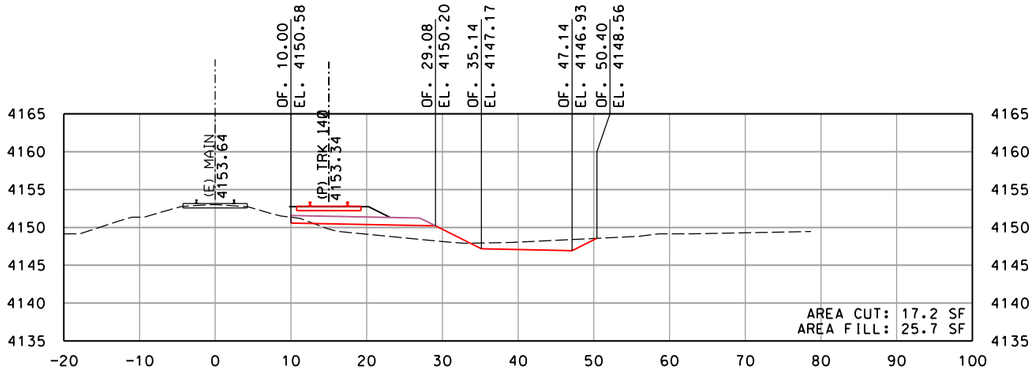
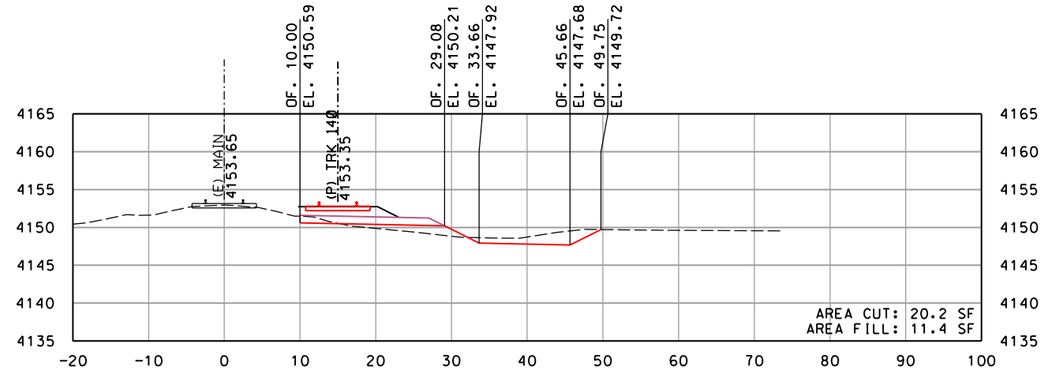
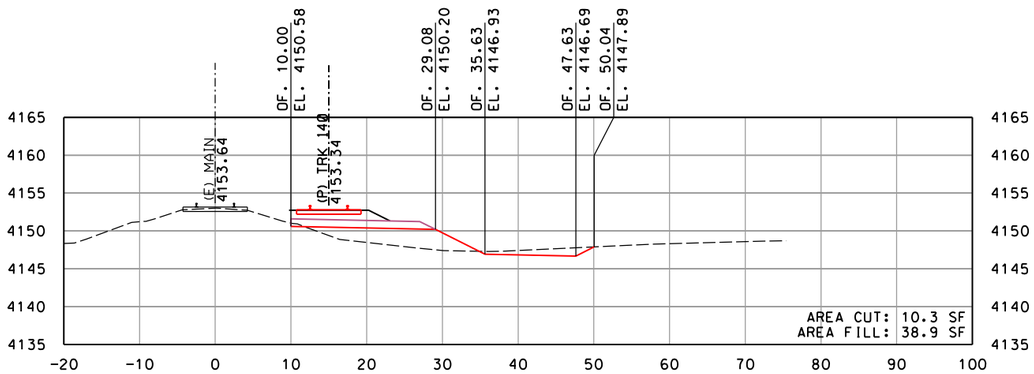
Time: 1:56:27 PM
Date: 02\22\2022



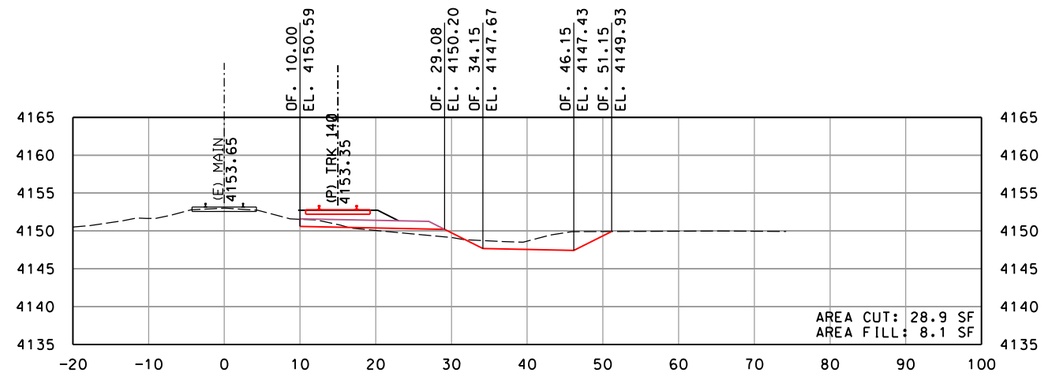
STA. 598+00



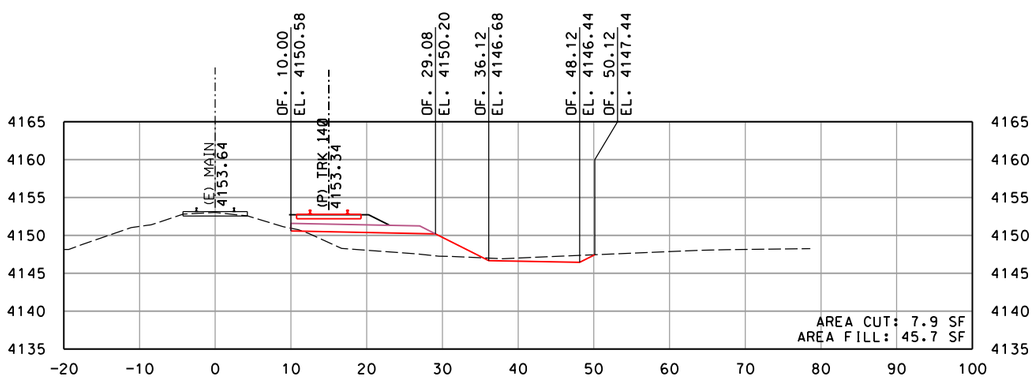
STA. 599+50



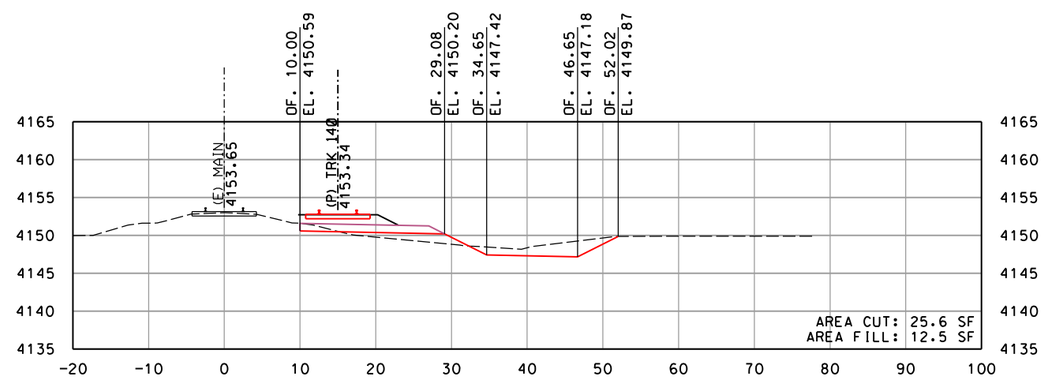
STA. 597+50



STA. 599+00



STA. 597+00



STA. 598+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 597+00 TO STA. 599+50
SHEET 19 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-19
REVISION
SHEET NO. 037
SCALE AS SHOWN

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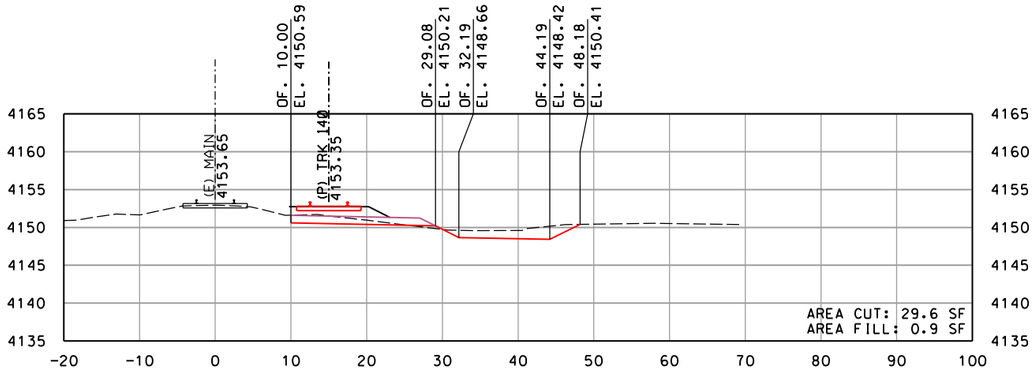
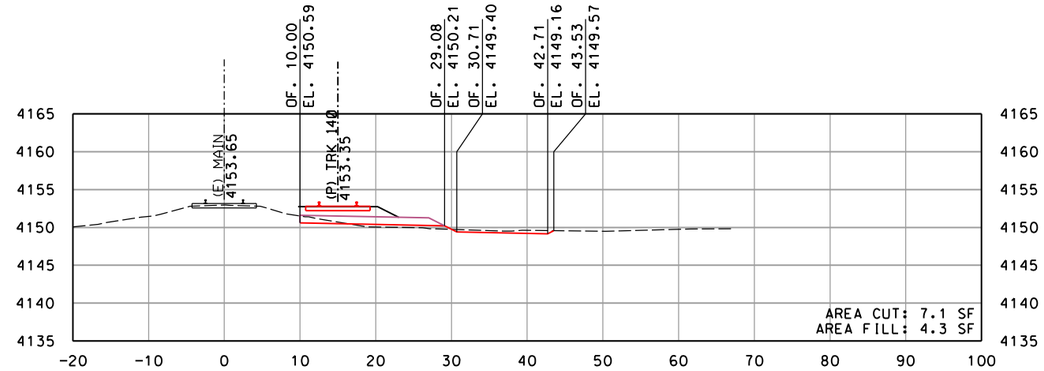
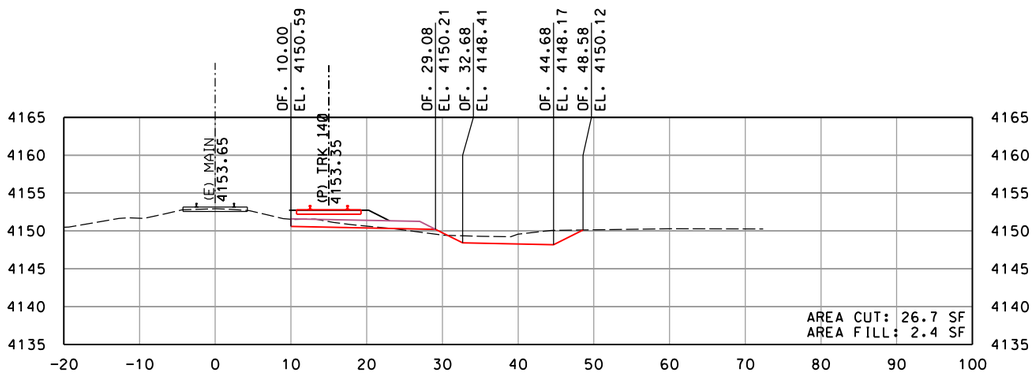
Date: 02\22\2022



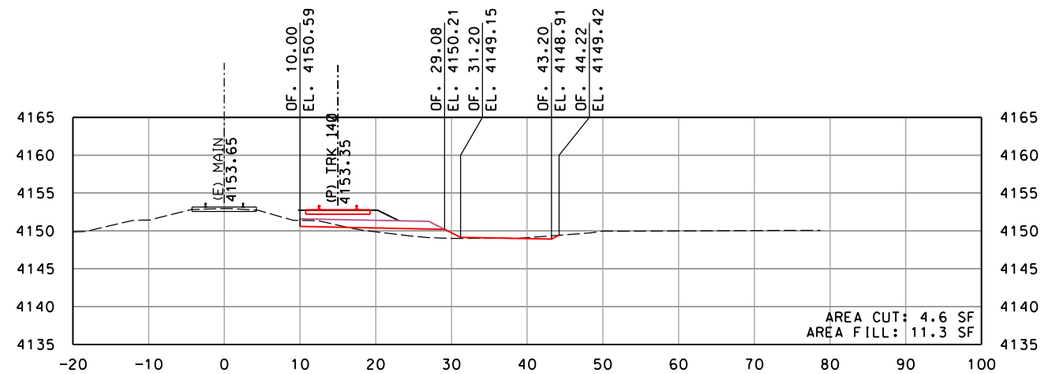
STA. 601+00



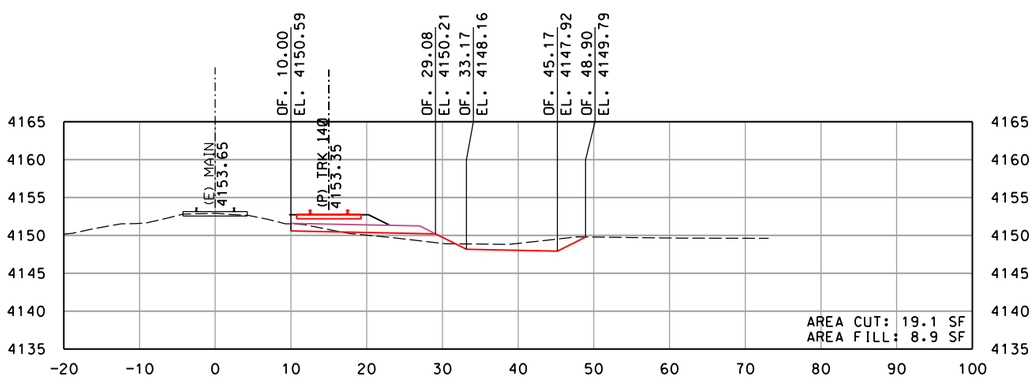
STA. 602+50



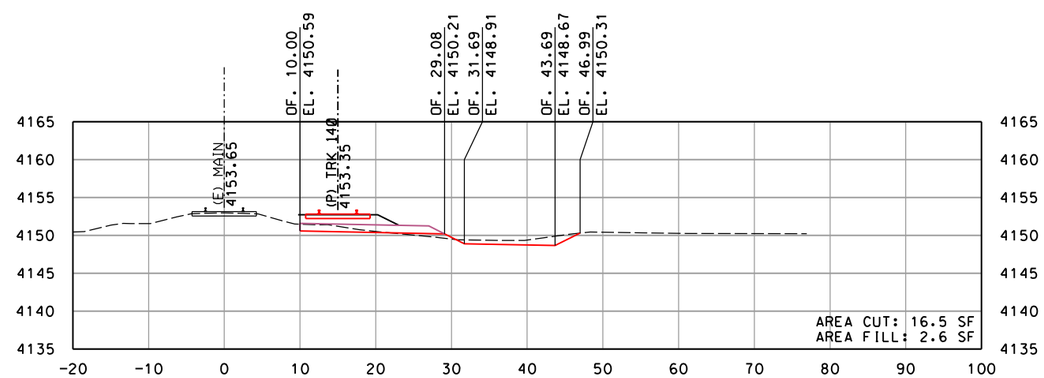
STA. 600+50



STA. 602+00



STA. 600+00



STA. 601+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 600+00 TO STA. 602+50
SHEET 20 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-20
REVISION
SHEET NO. 038
SCALE AS SHOWN

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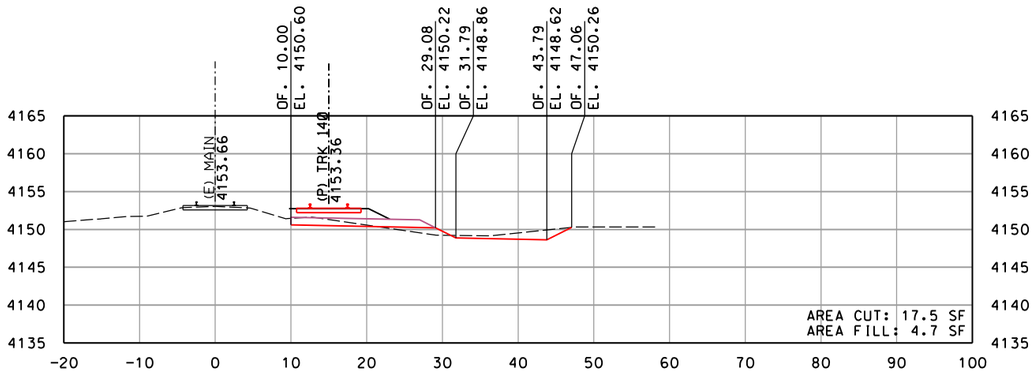
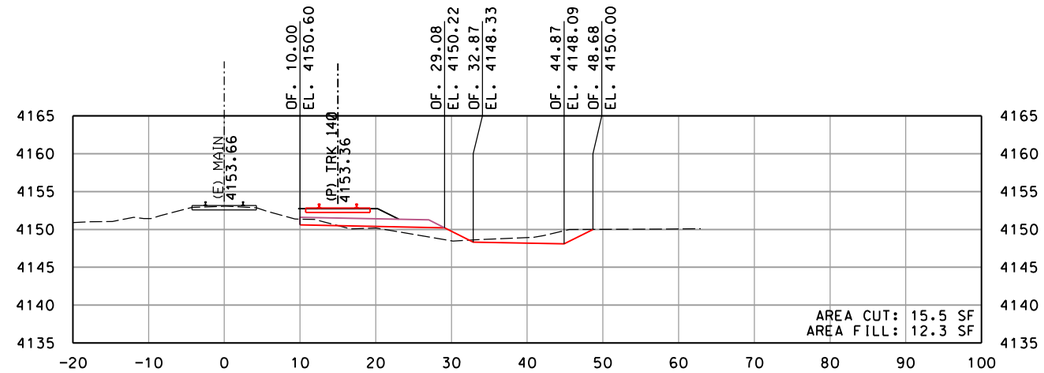
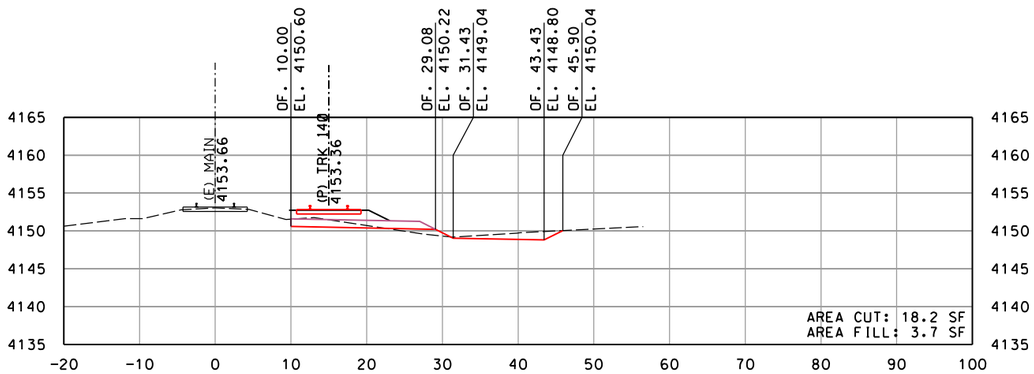
Date: 02\22\2022



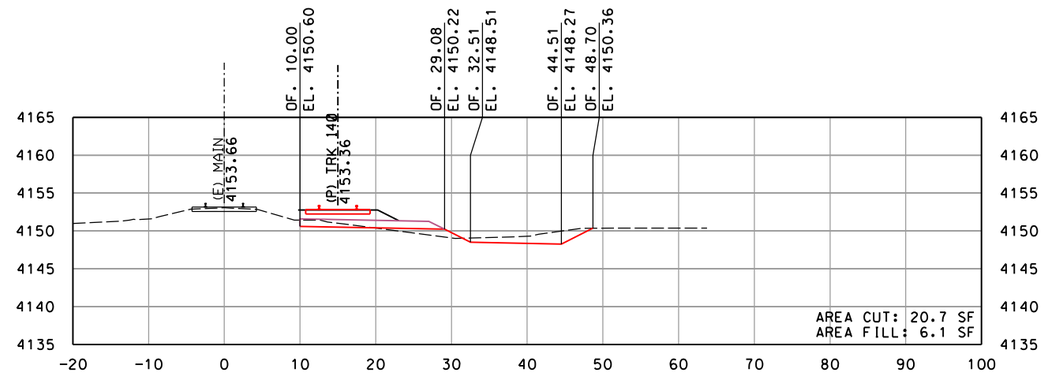
STA. 604+00



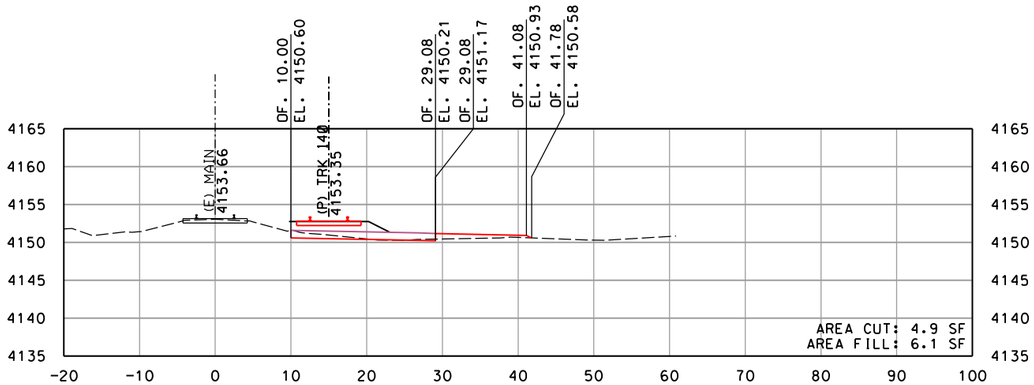
STA. 605+50



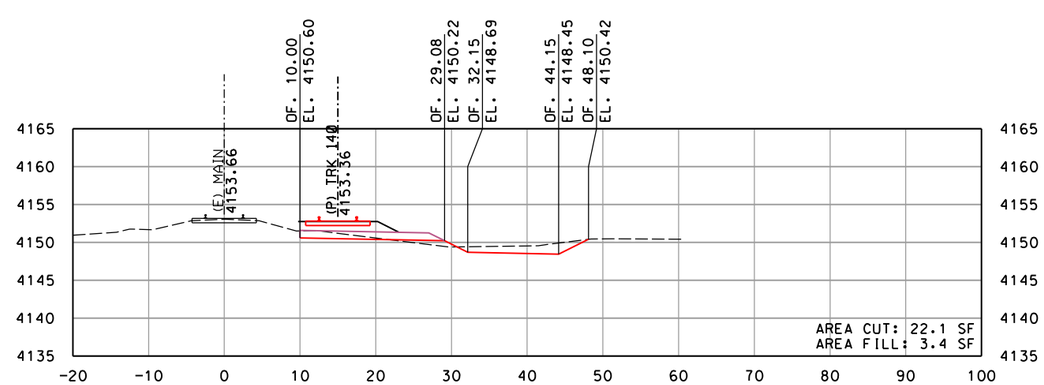
STA. 603+50



STA. 605+00



STA. 603+00



STA. 604+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 603+00 TO STA. 605+50
SHEET 21 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-21
REVISION	
SHEET NO.	039
SCALE	AS SHOWN

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Pen table: Watco_Railway.tbl
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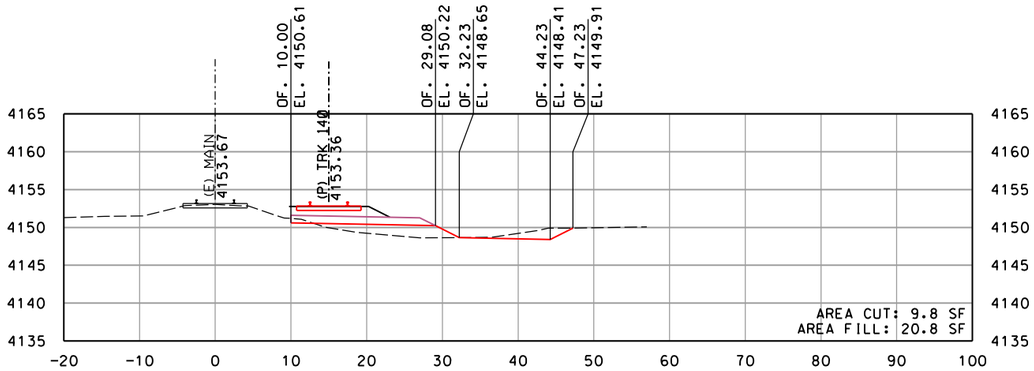
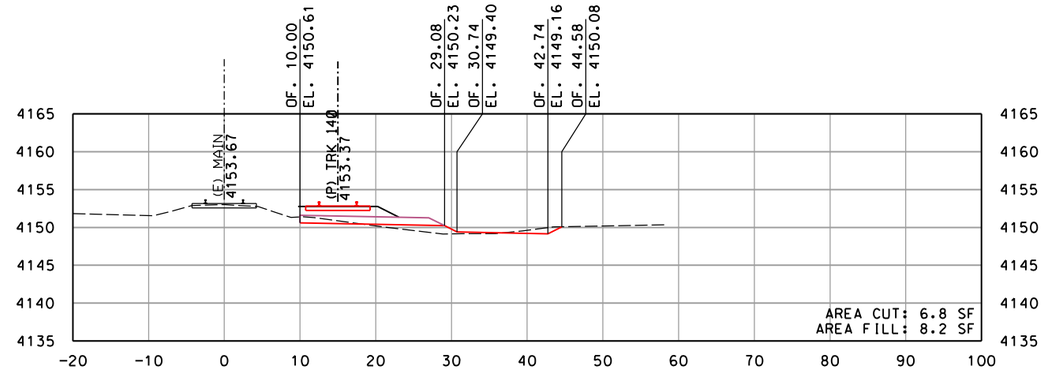
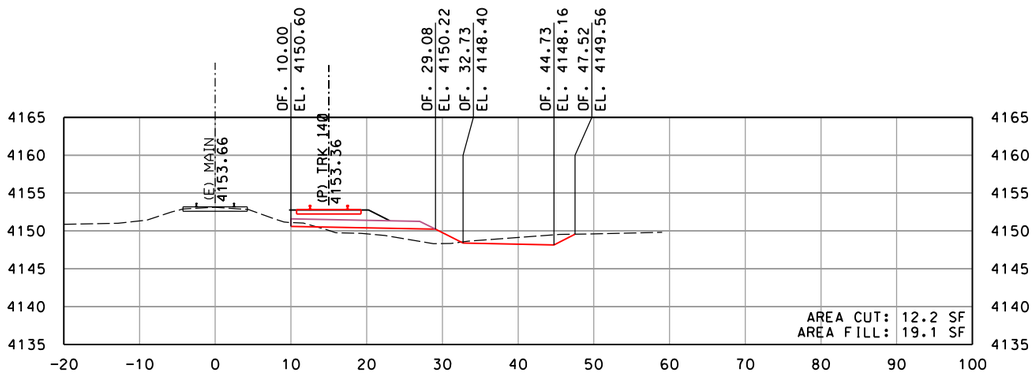
Date: 02\22\2022



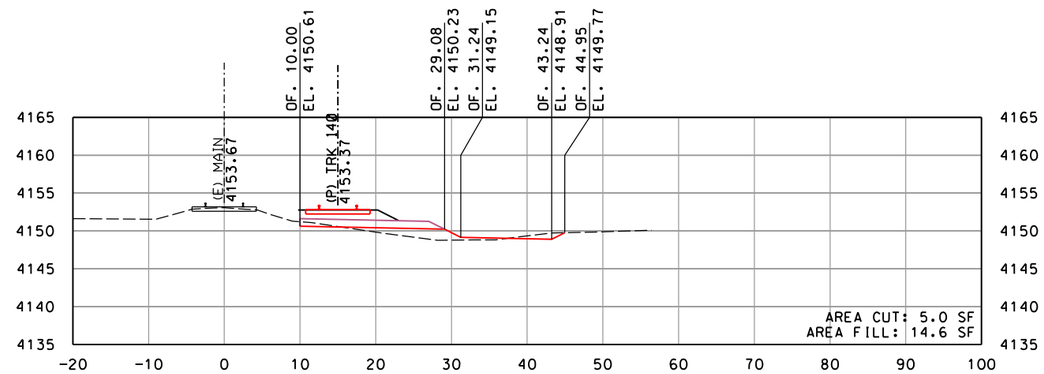
STA. 607+00



STA. 608+50



STA. 606+50



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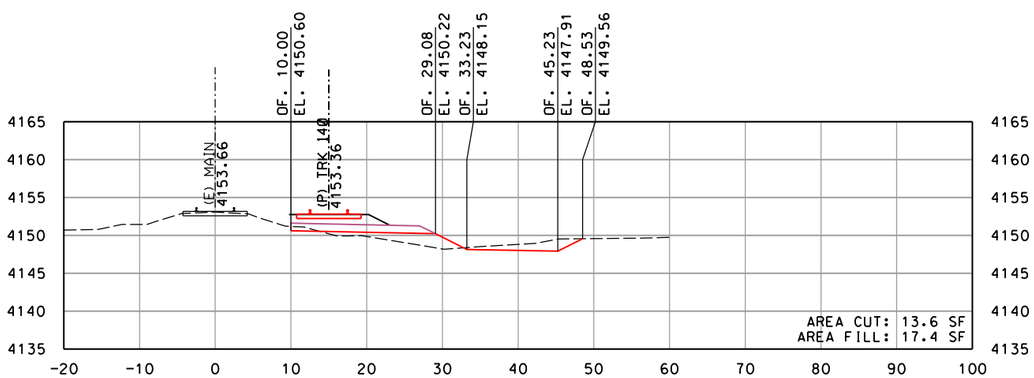

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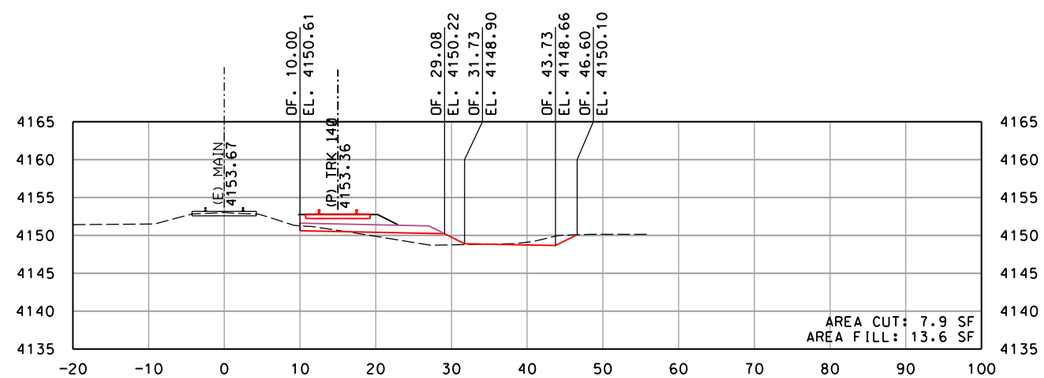

STA. 607+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 606+00 TO STA. 608+50
SHEET 22 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-22
REVISION	
SHEET NO.	040
SCALE	AS SHOWN

Plot driver: WATCO_pdf_300dpi.pltcfg
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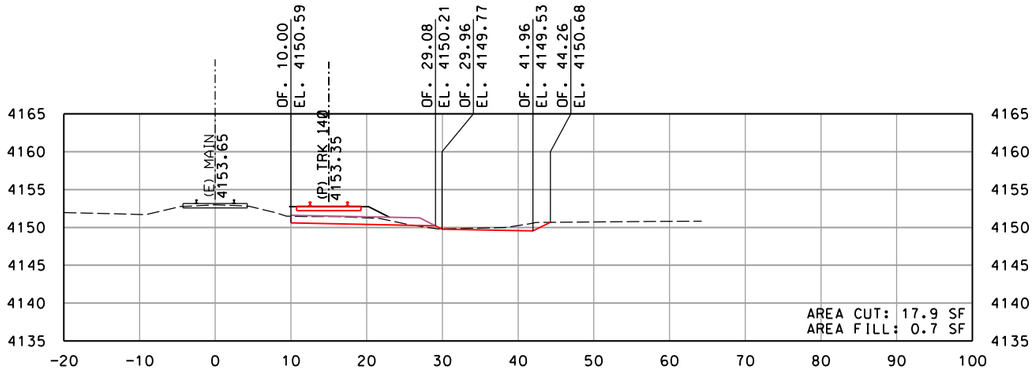
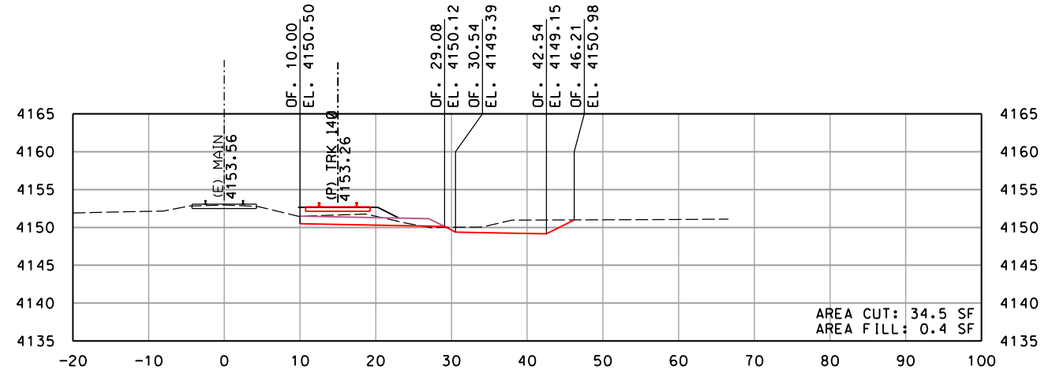
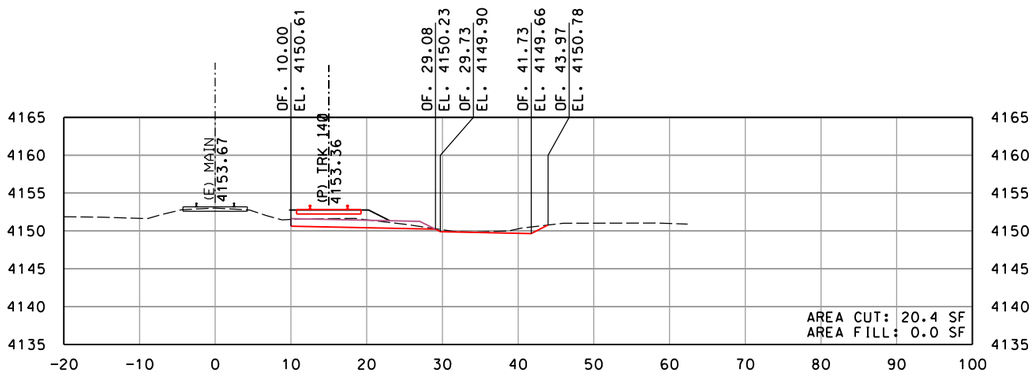
Time: 1:56:28 PM
Date: 02\22\2022



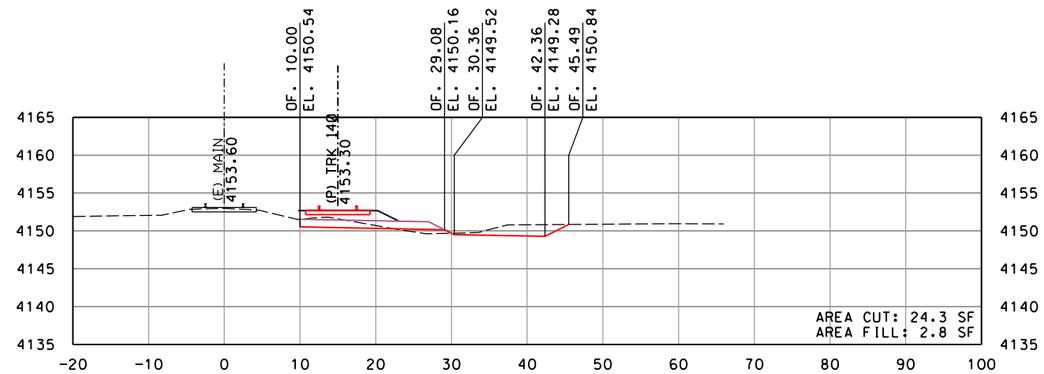
STA. 610+00



STA. 611+50



STA. 609+50



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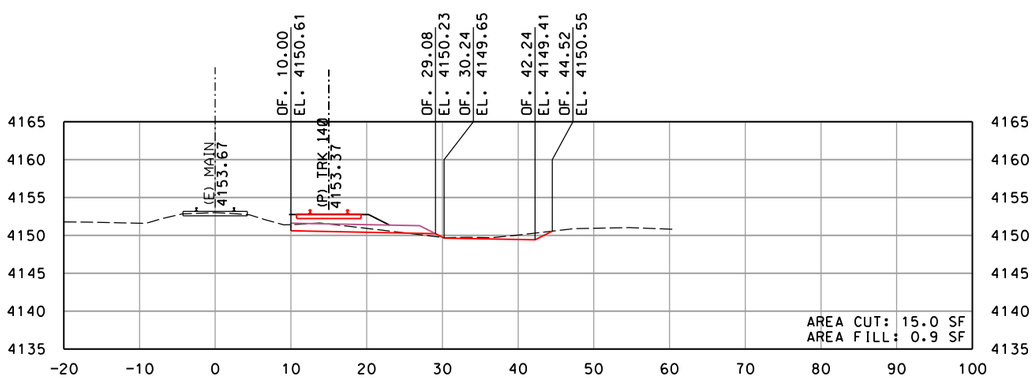
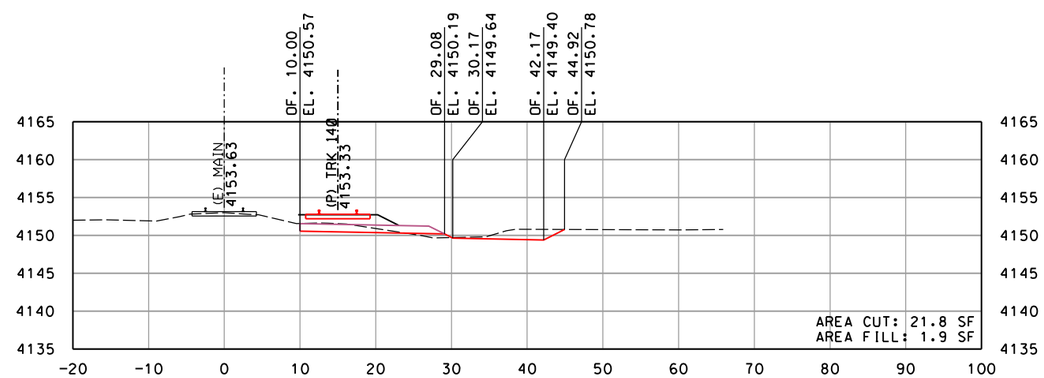


STA. 609+00



STA. 610+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 609+00 TO STA. 611+50
SHEET 23 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-23
REVISION	
SHEET NO.	041
SCALE	AS SHOWN

Plot driver: WATCO_pdf_300dpi.pltcfg
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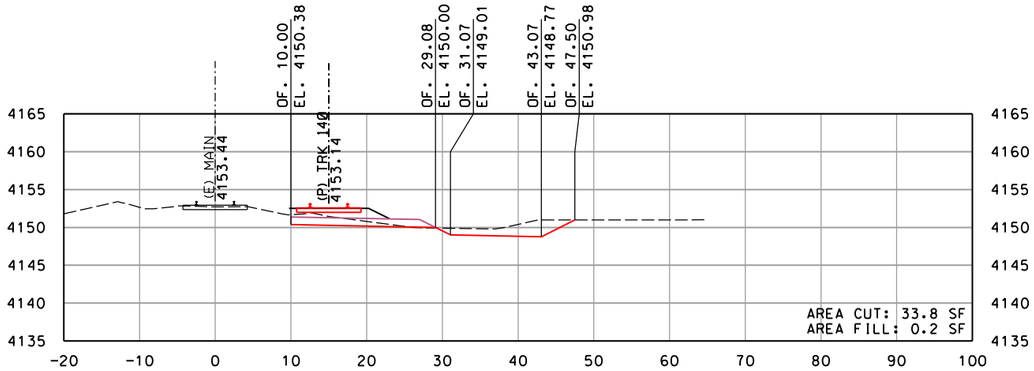
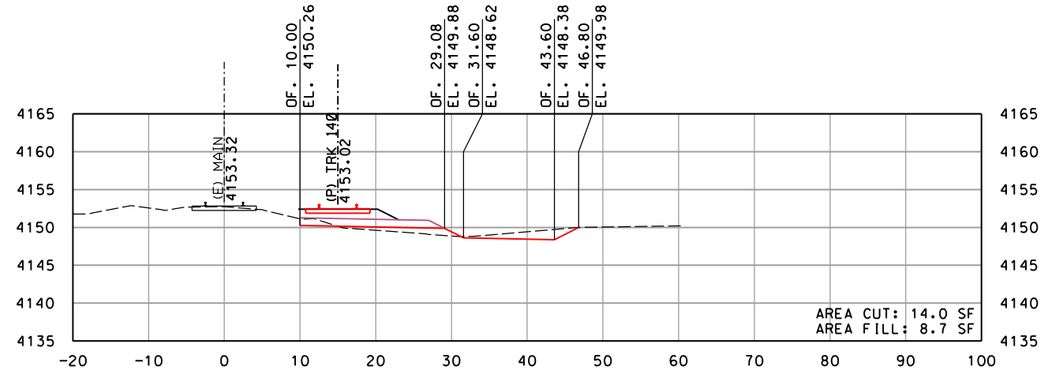
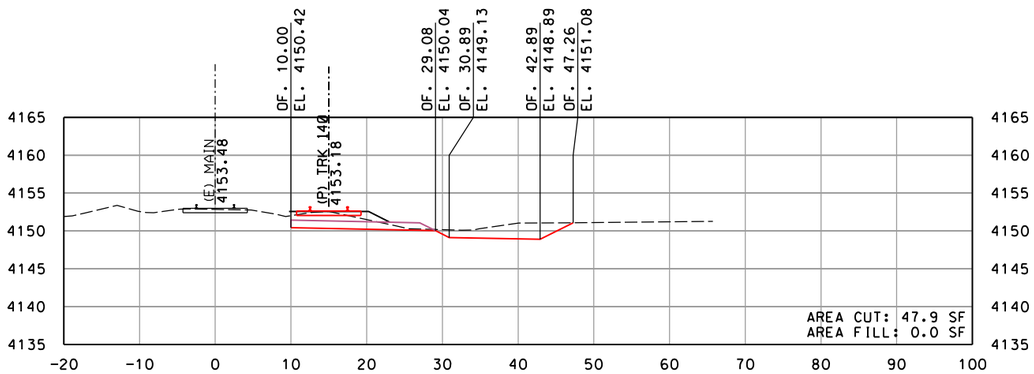
Date: 02\22\2022



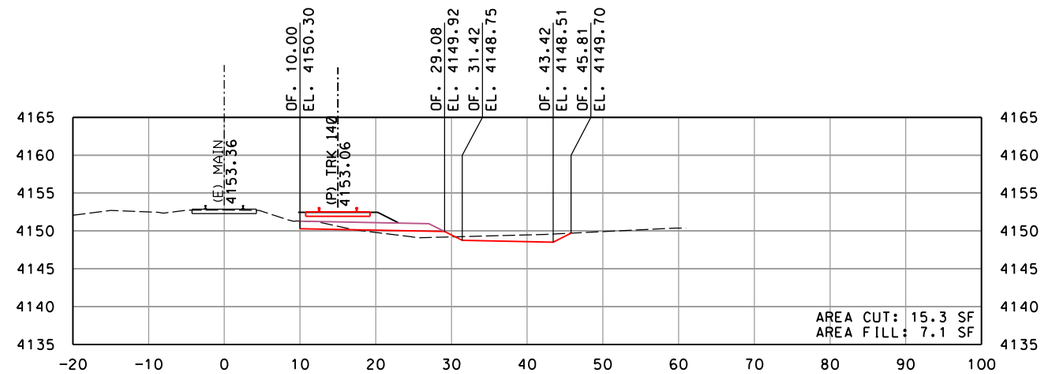
STA. 613+00



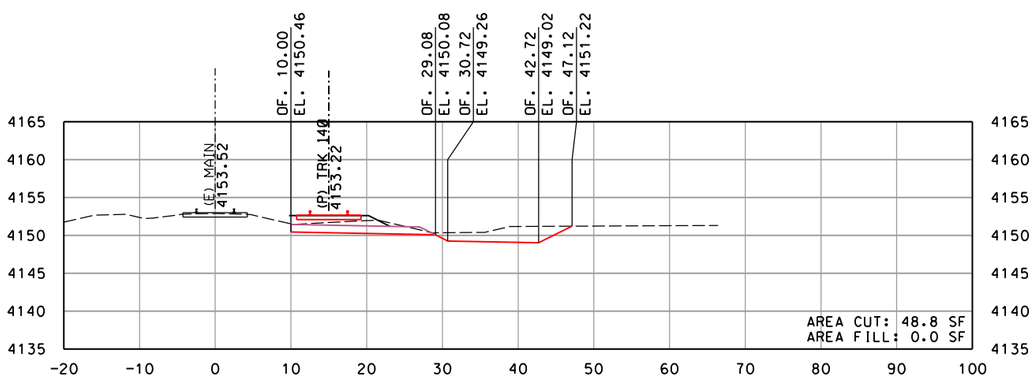
STA. 614+50



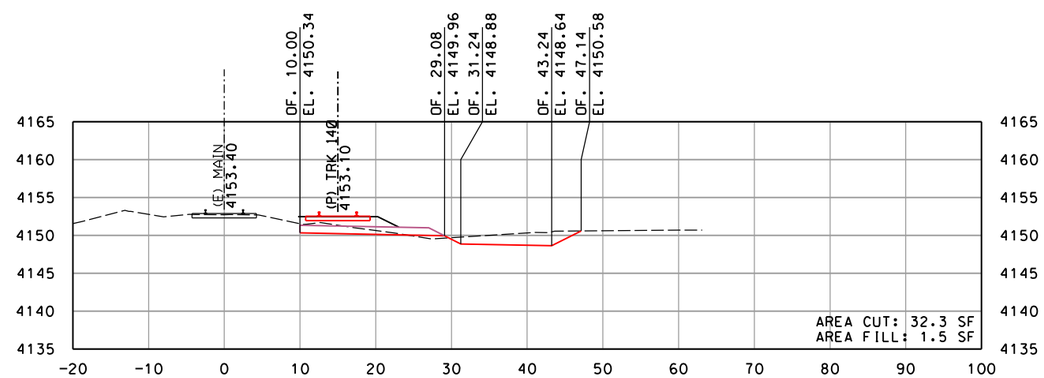
STA. 612+50



STA. 614+00



STA. 612+00



STA. 613+50

GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 612+00 TO STA. 614+50
SHEET 24 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-24
REVISION	
SHEET NO.	042
SCALE	AS SHOWN

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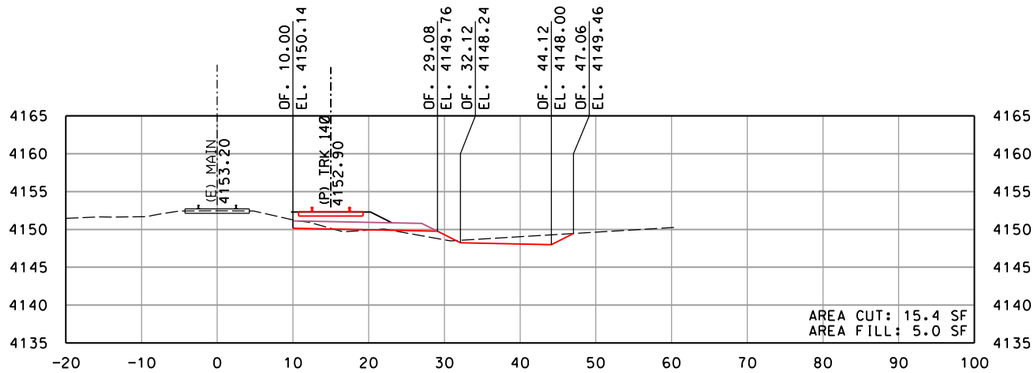
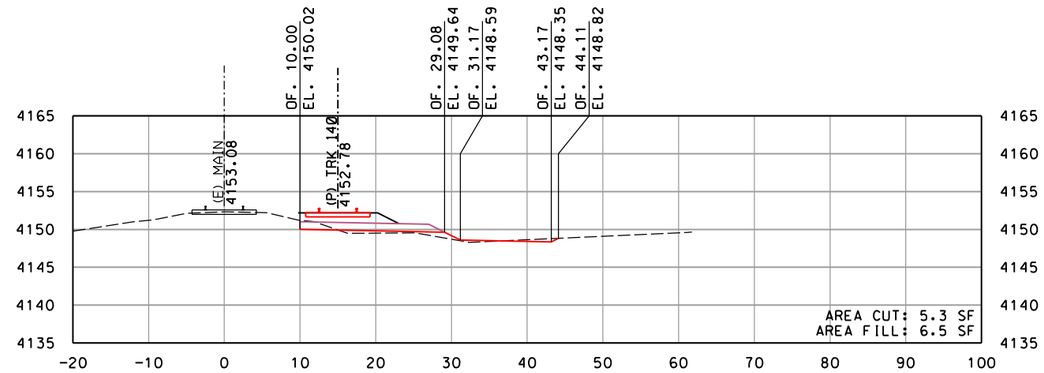
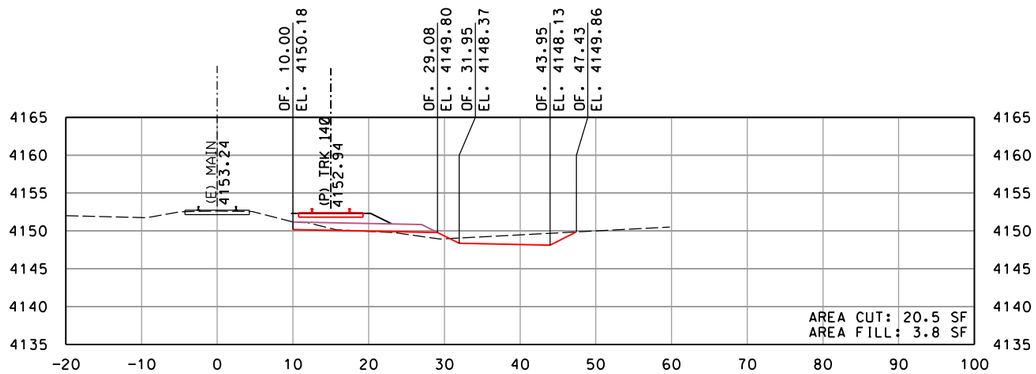
Time: 1:56:29 PM
Date: 02\22\2022



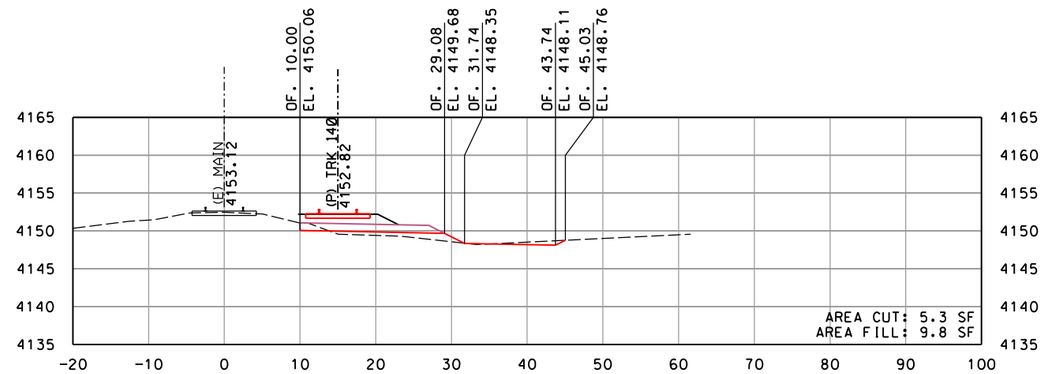
STA. 616+00



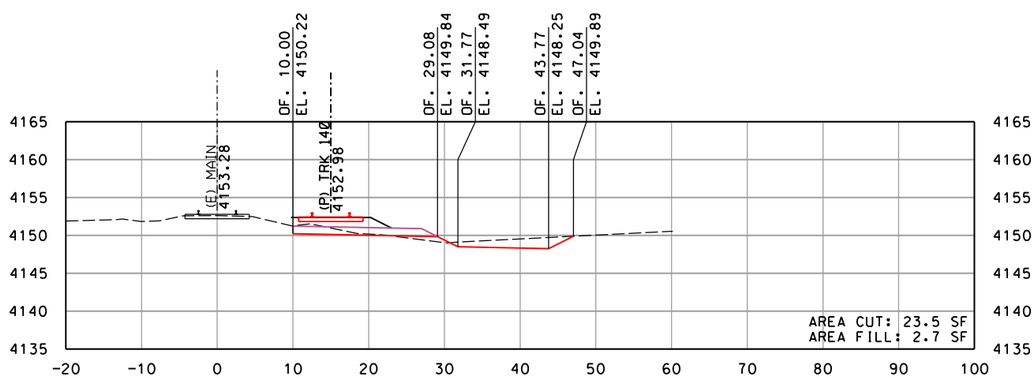
STA. 617+50



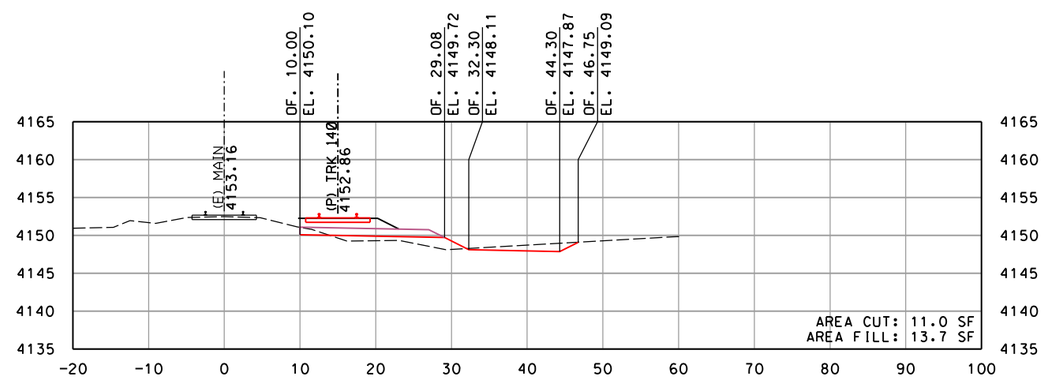
STA. 615+50



STA. 617+00



STA. 615+00



STA. 616+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 615+00 TO STA. 617+50
SHEET 25 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-25
REVISION
SHEET NO. 043
SCALE AS SHOWN

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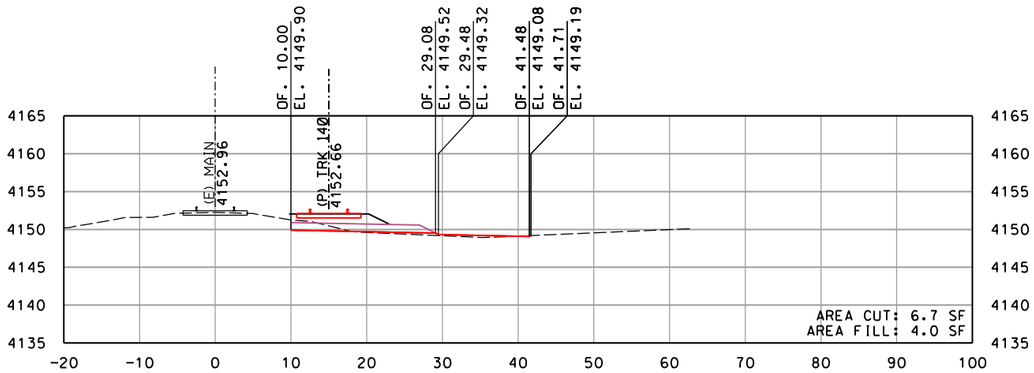
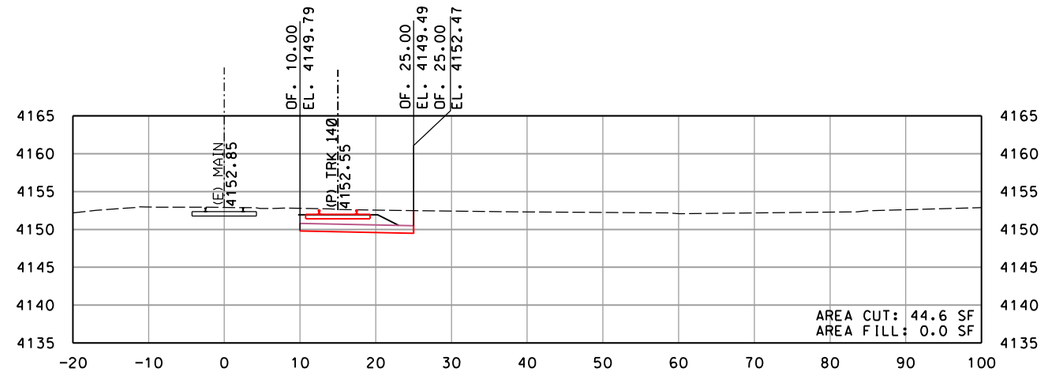
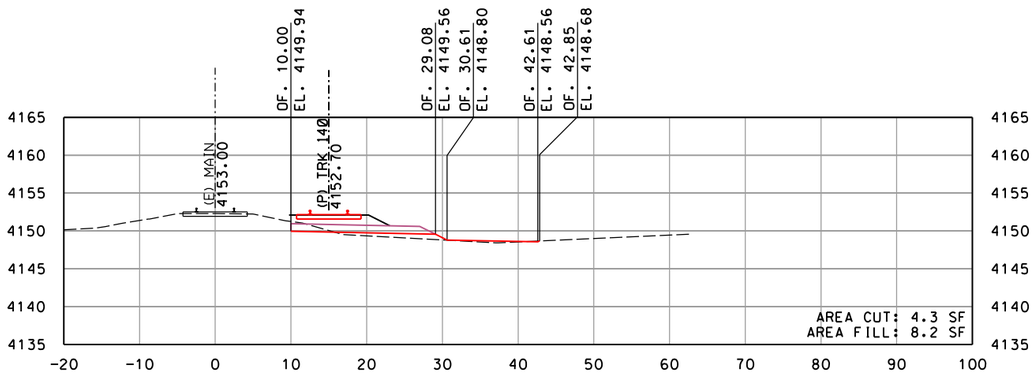
Time: 1:56:30 PM
Date: 02\22\2022



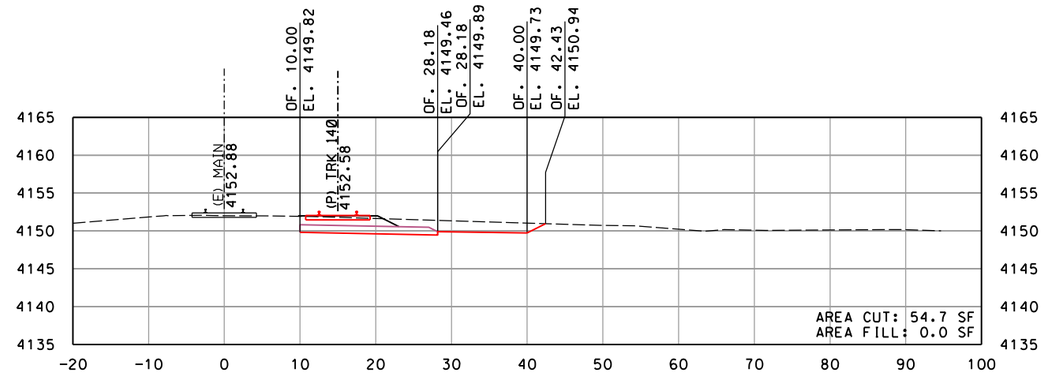
STA. 619+00



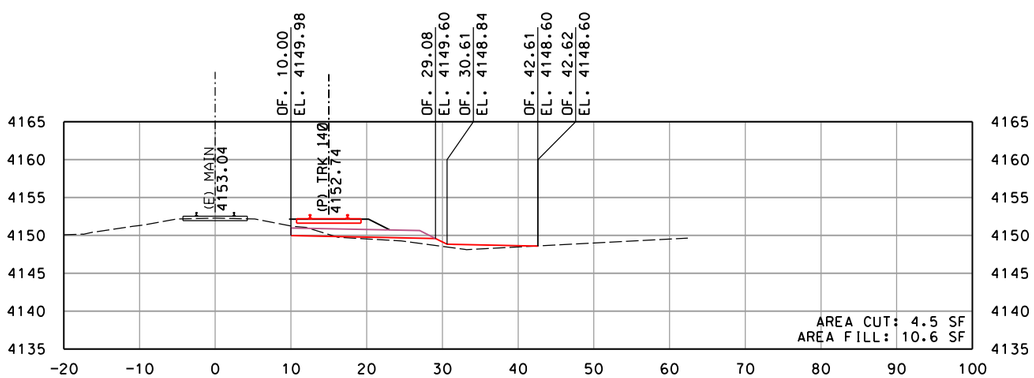
STA. 620+50 (ROADWAY)



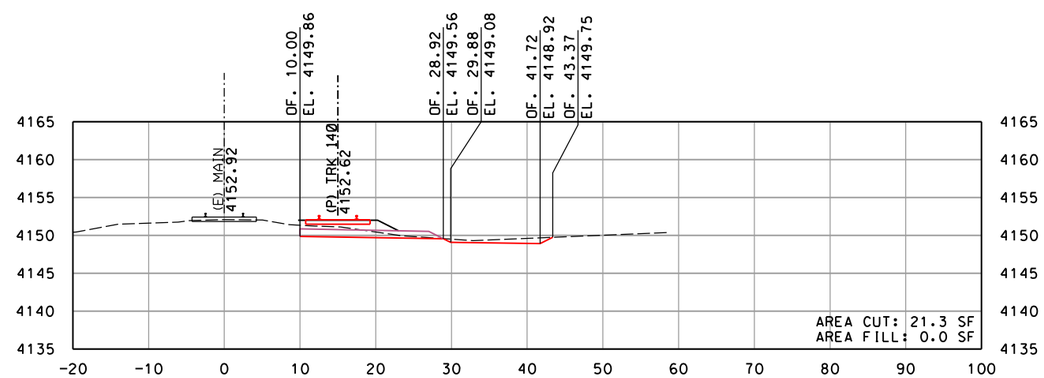
STA. 618+50



STA. 620+00



STA. 618+00



STA. 619+50

GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

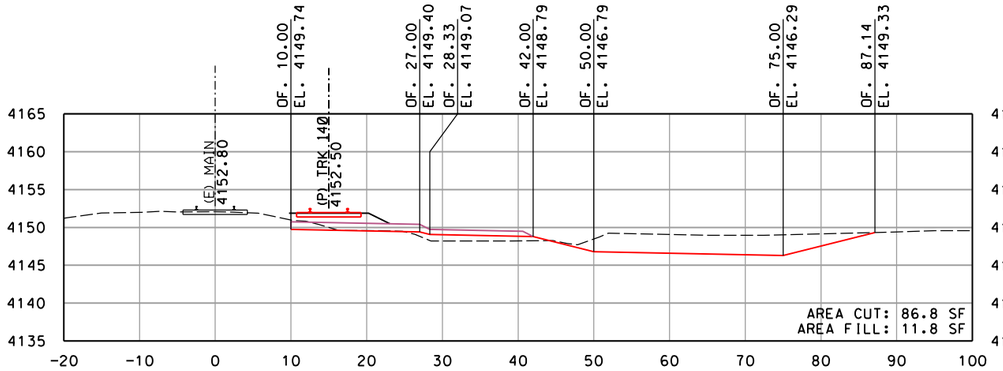
WATCO

EASTERN RAIL ROAD IDAHO

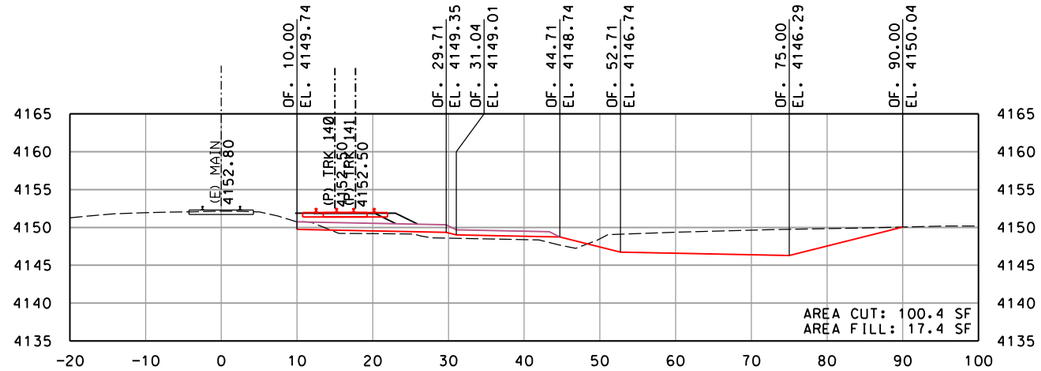
WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 618+00 TO STA. 620+50
SHEET 26 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-26
REVISION
SHEET NO. 044
SCALE AS SHOWN

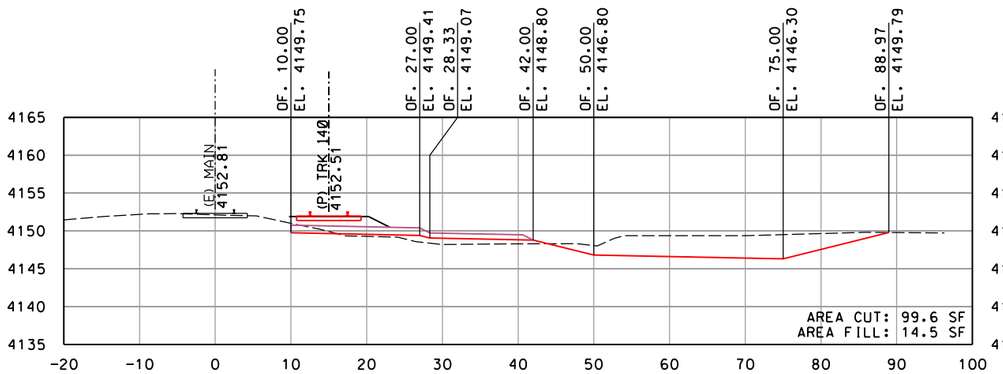
Plot driver: WATCO_pdf_300dpi.pltcfg
Pen table: Watco_Railway.tbl
File: I:\Dropbox (Watco Companies, LLC)\Watco_Design\19_192_Rupert_ID_EIRR_Track_Expansion\Cad\Rail\Sheet\C-3001-XSections.dgn
Time: 1:56:30 PM
Date: 02\22\2022



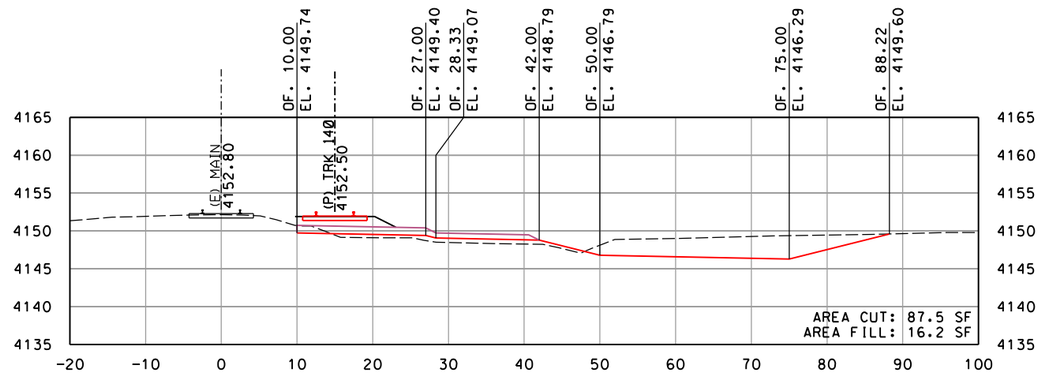
STA. 622+00



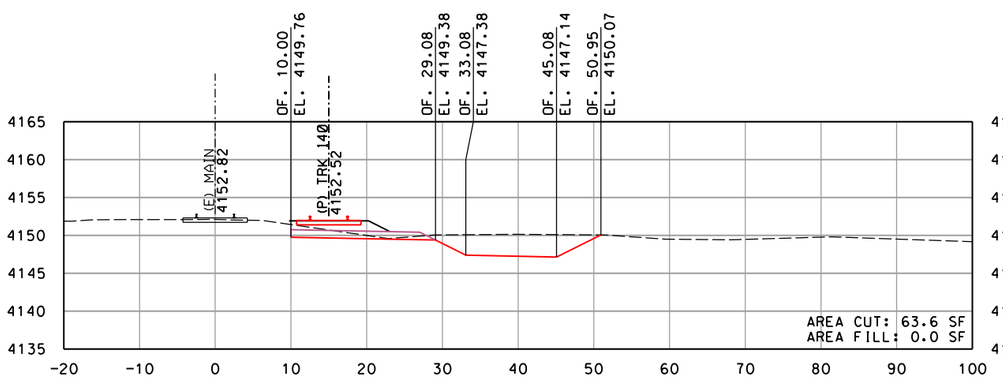
STA. 623+50



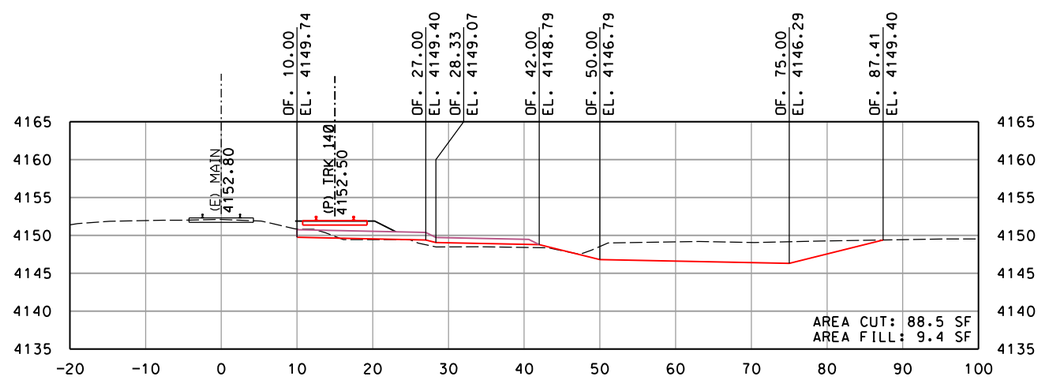
STA. 621+50



STA. 623+00



STA. 621+00



STA. 622+50

GRAPHIC SCALE: 10' 0 5' 10' 20' — 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 621+00 TO STA. 623+50
SHEET 27 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-27
REVISION
SHEET NO. 045
SCALE AS SHOWN

Plot driver: WATCO_pdf_300dpi.pltcfg
Pen table: Watco_Railway.tbl
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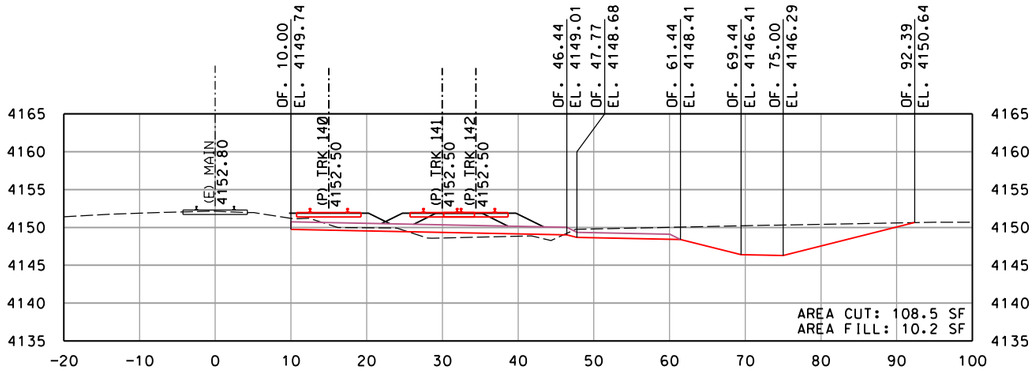
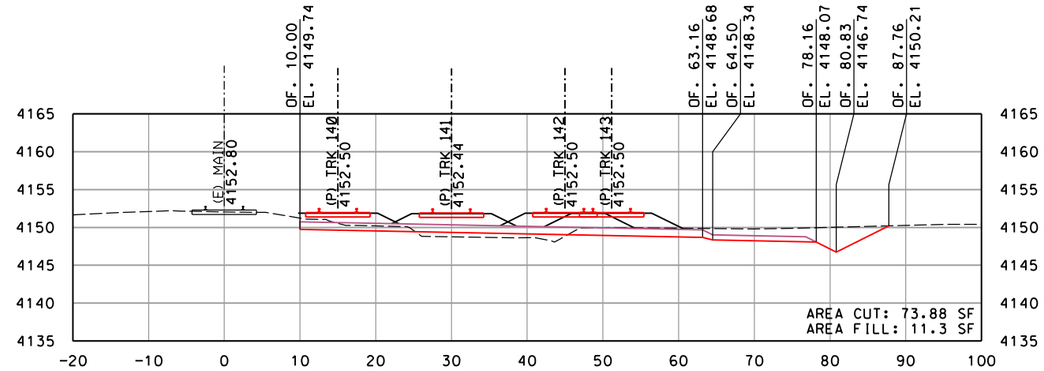
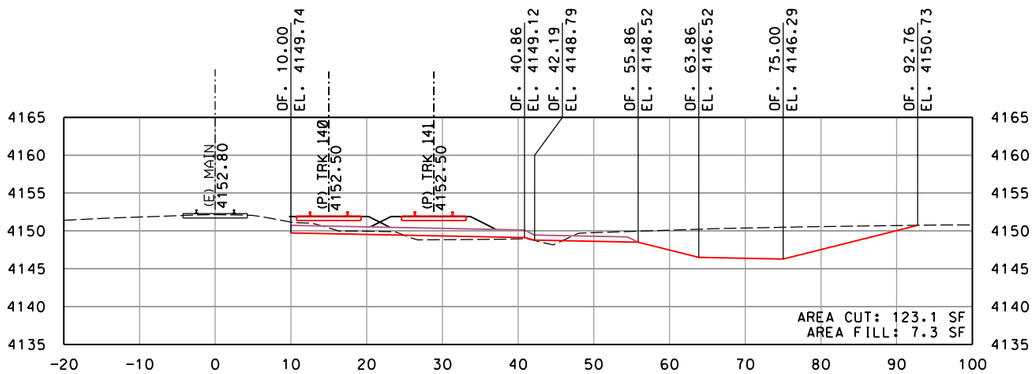
Date: 02\22\2022



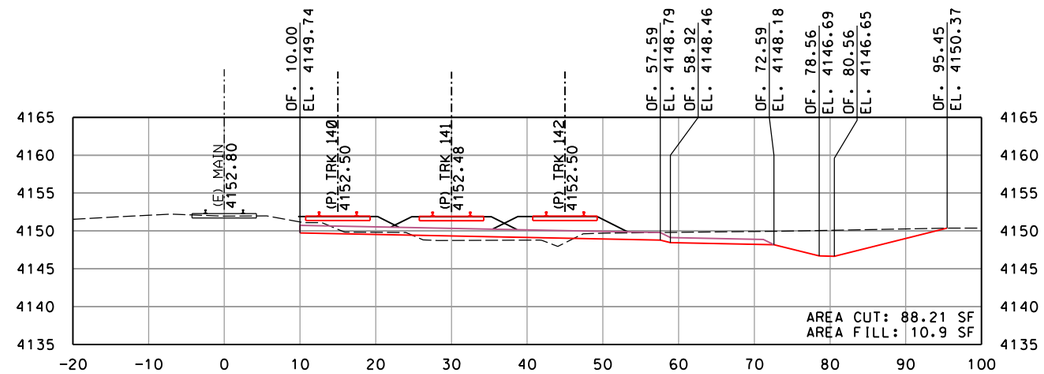
STA. 625+00



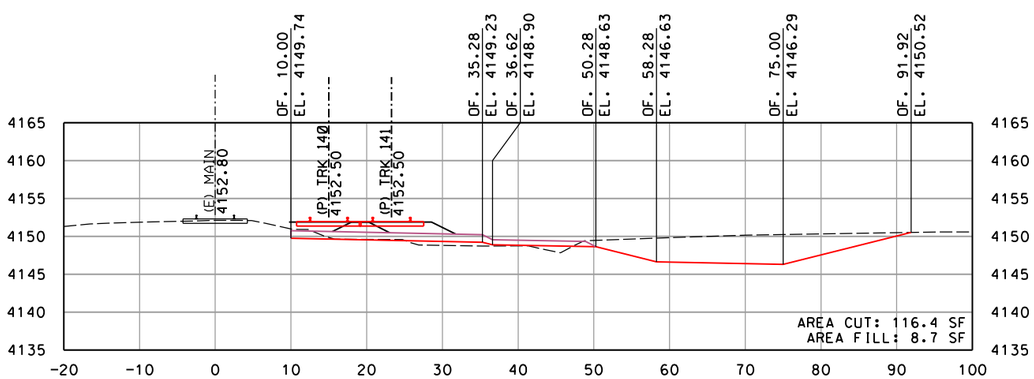
STA. 626+50



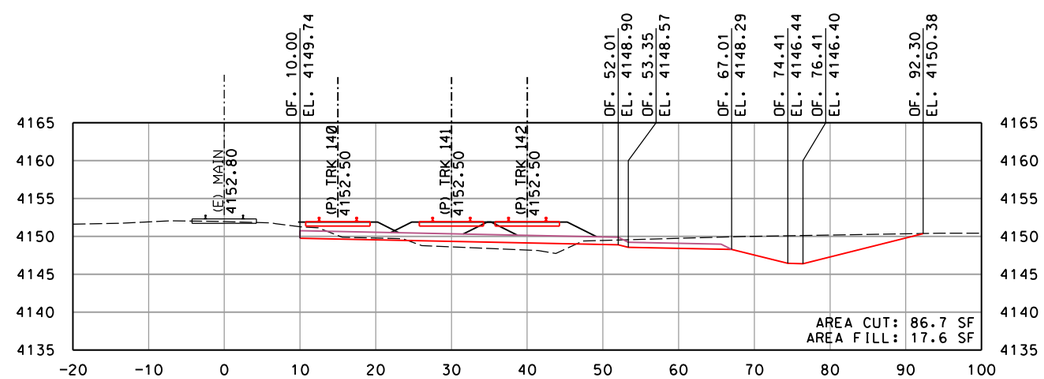
STA. 624+50



STA. 626+00



STA. 624+00



STA. 625+50

GRAPHIC SCALE: 10' 0 5' 10' 20' — 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN IDAHO RAILROAD

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 624+00 TO STA. 626+50
SHEET 28 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-28
REVISION	
SHEET NO.	046
SCALE	AS SHOWN

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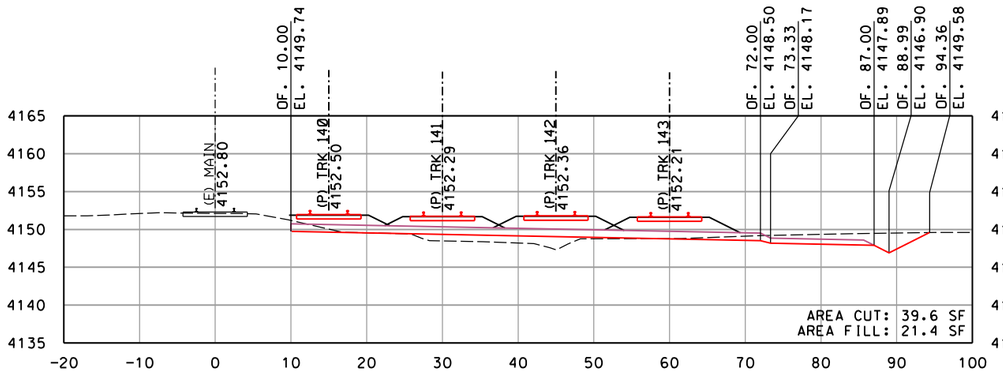
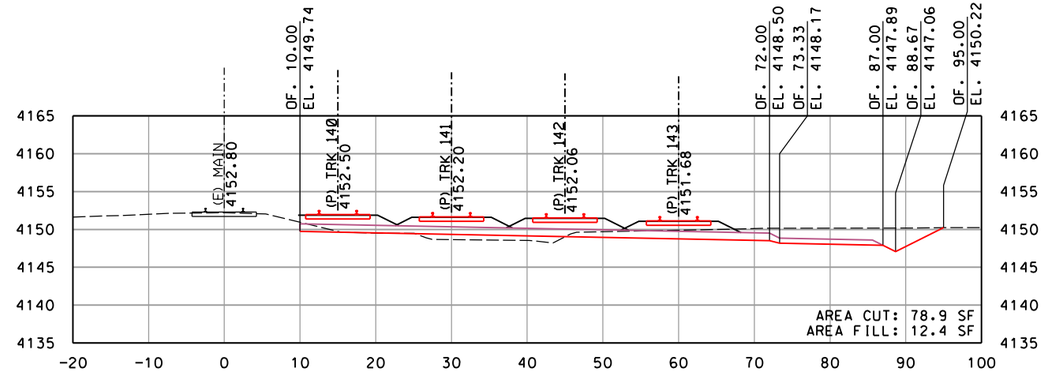
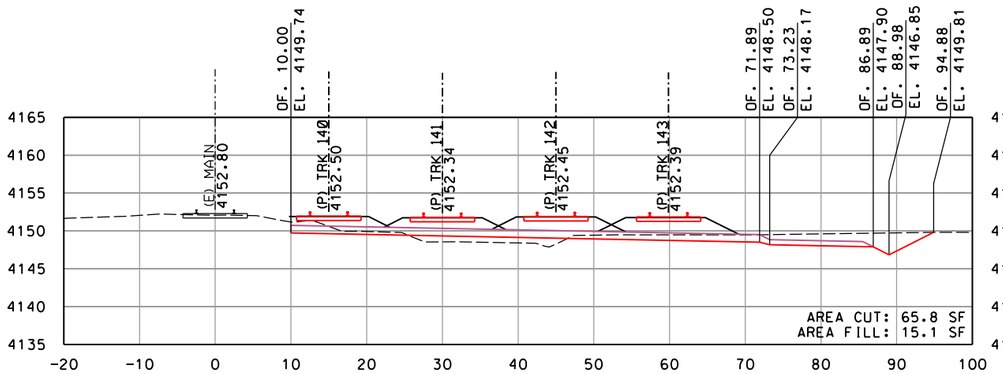
Date: 02\22\2022



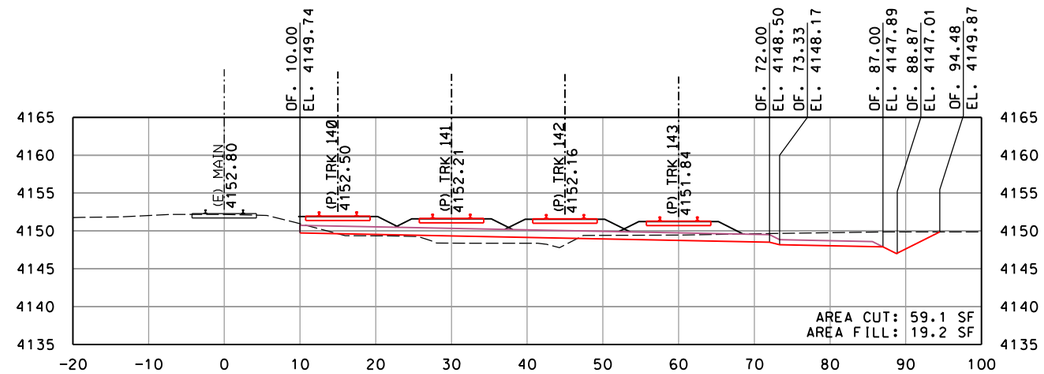
STA. 628+00



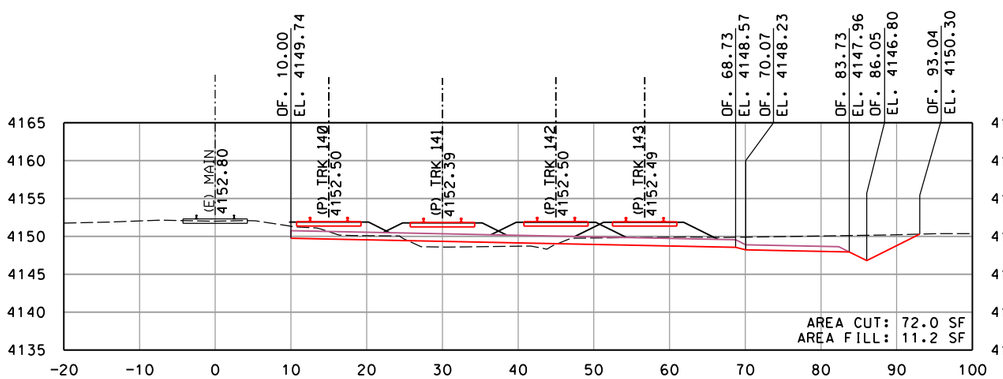
STA. 629+50



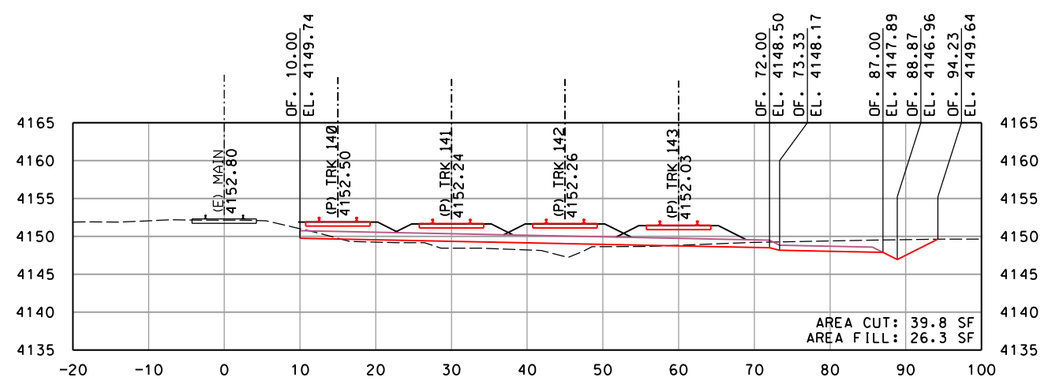
STA. 627+50



STA. 629+00



STA. 627+00



STA. 628+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 627+00 TO STA. 629+50
SHEET 29 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-29
REVISION
SHEET NO. 047
SCALE AS SHOWN

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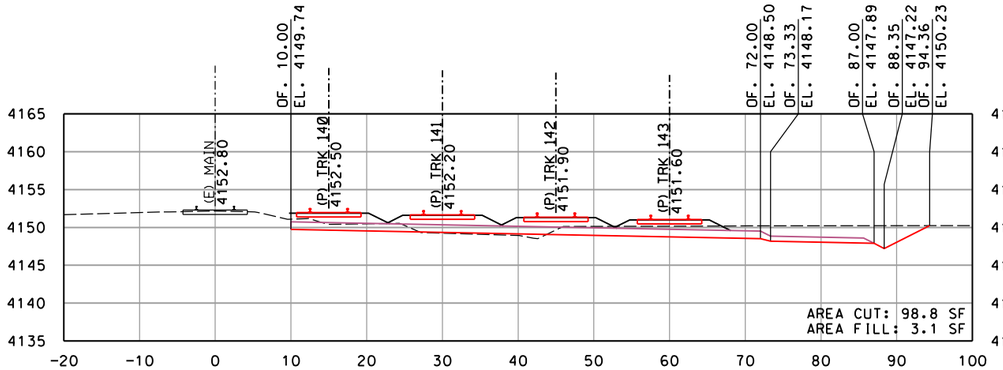
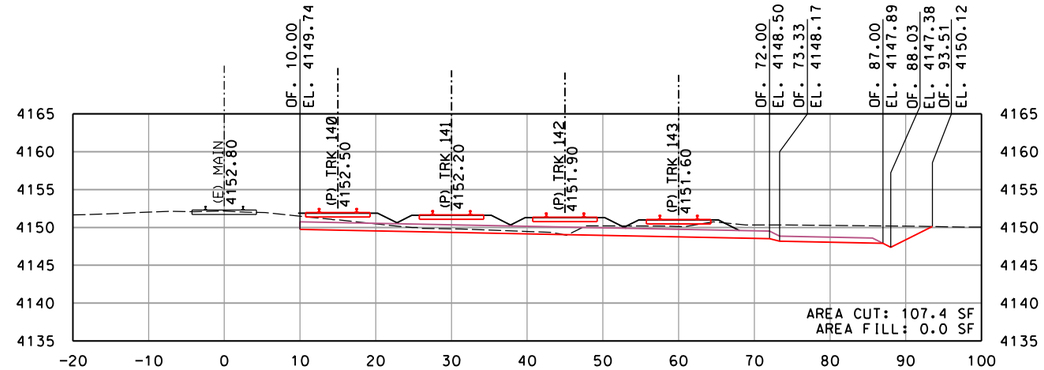
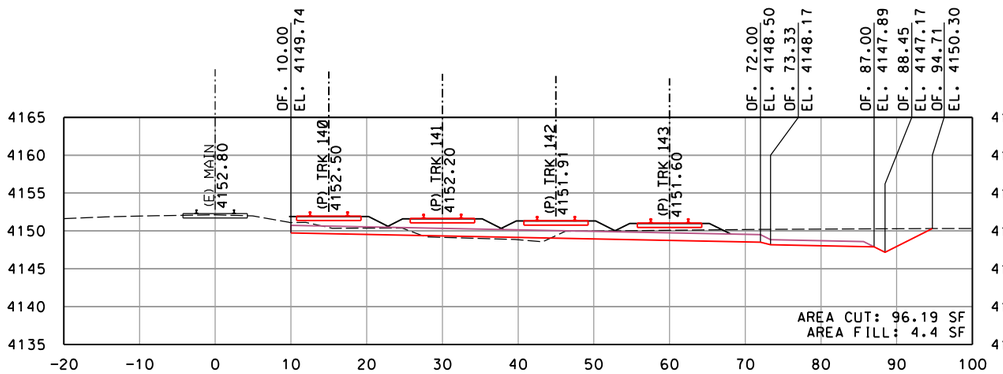
Time: 1:56:31 PM
Date: 02\22\2022



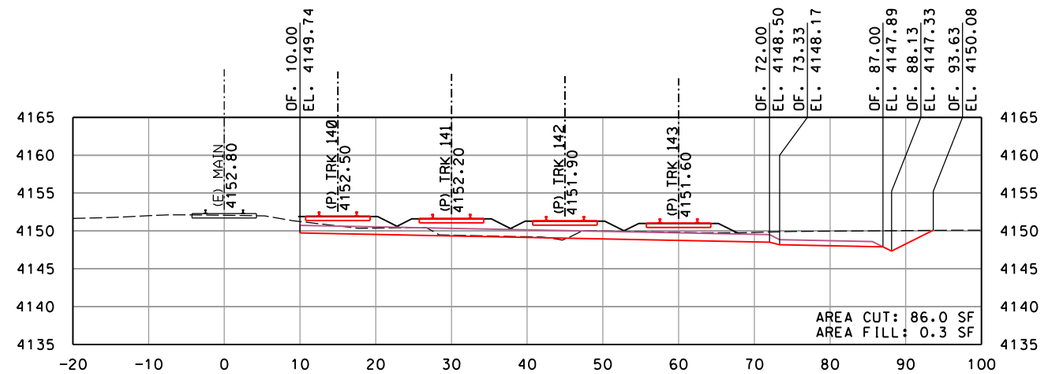
STA. 631+00



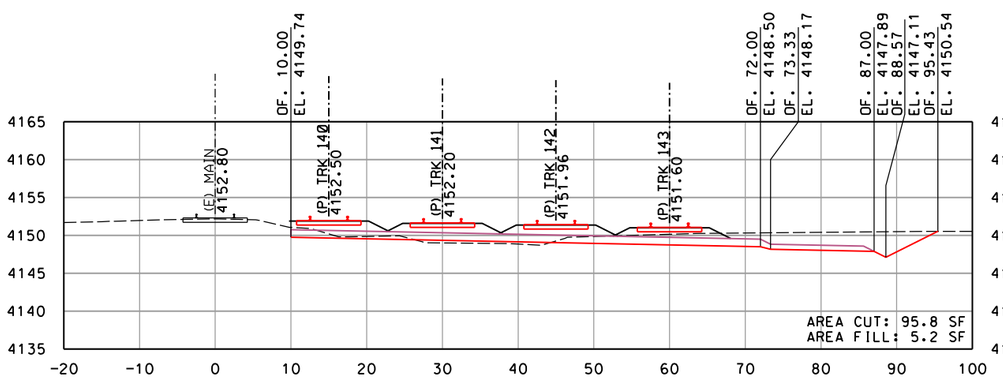
STA. 632+50



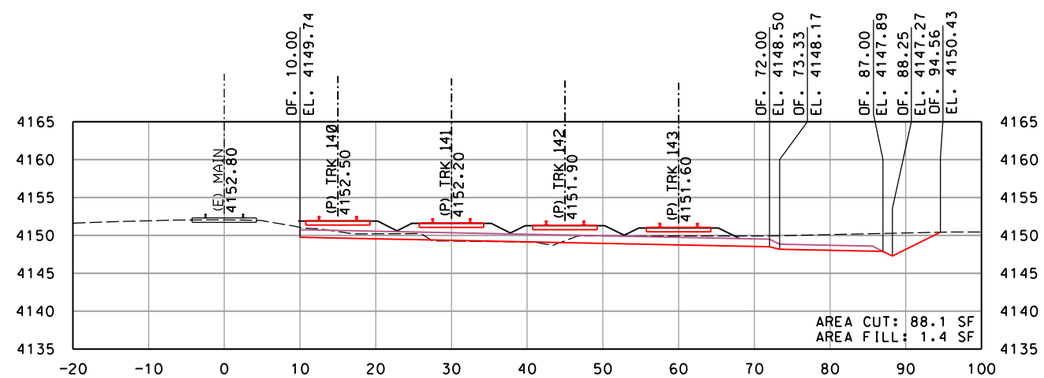
STA. 630+50



STA. 632+00



STA. 630+00



STA. 631+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 630+00 TO STA. 632+50
SHEET 30 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-30
REVISION
SHEET NO. 048
SCALE AS SHOWN

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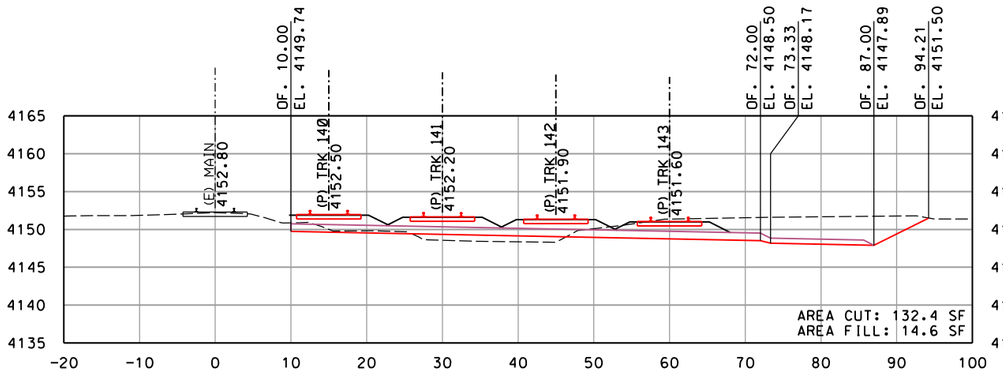
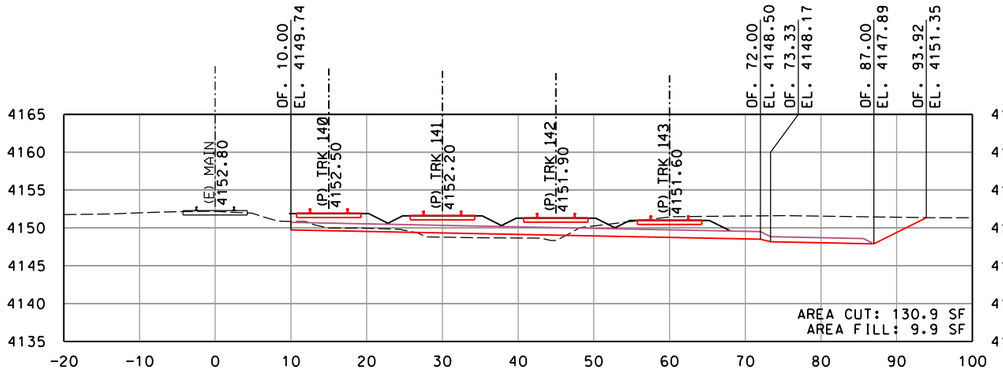
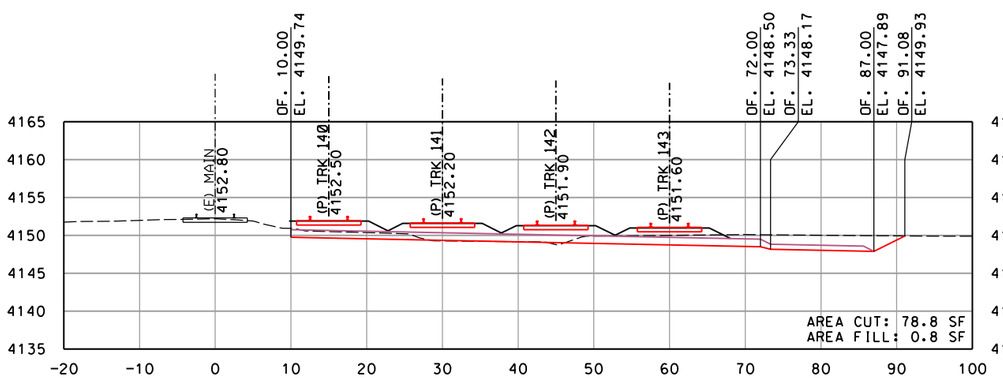
Date: 02\22\2022



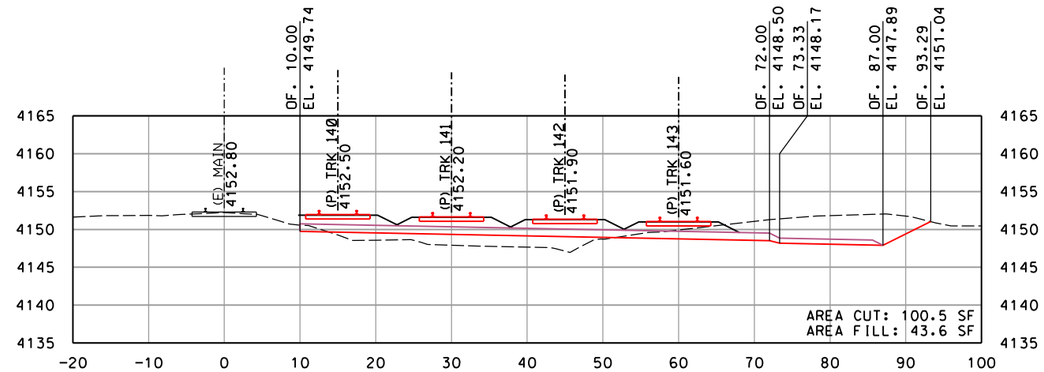
STA. 634+00



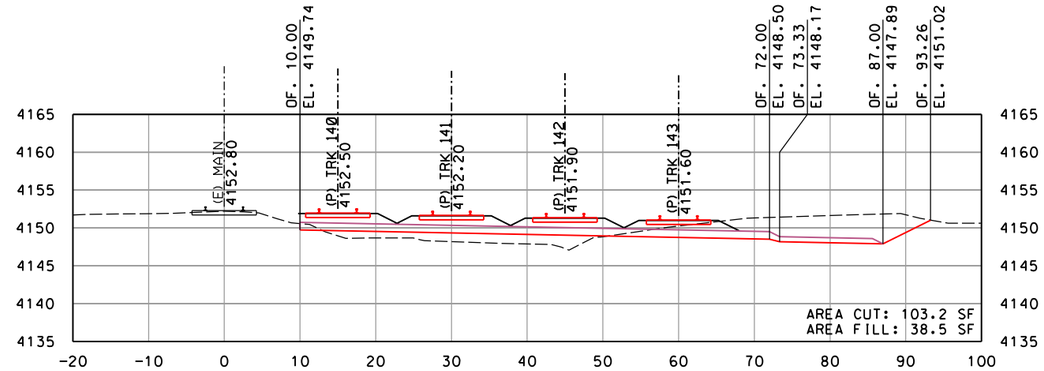
STA. 633+50



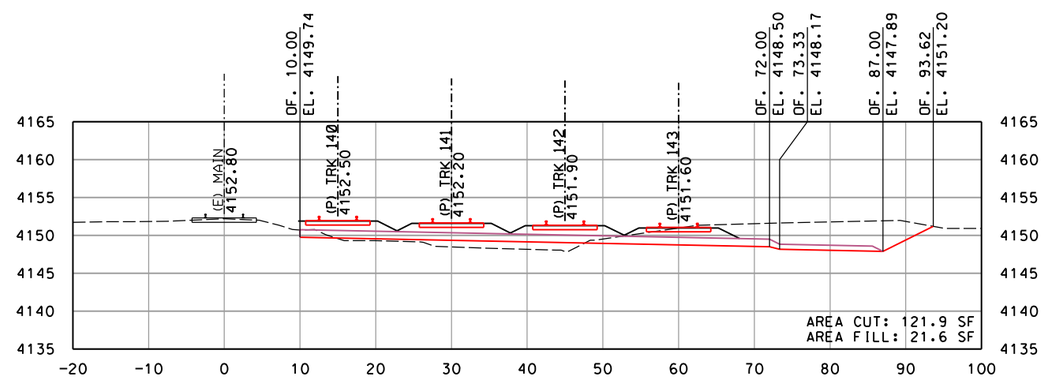
STA. 633+00



STA. 635+50



STA. 635+00



STA. 634+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 633+00 TO STA. 635+50
SHEET 31 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-31
REVISION	
SHEET NO.	049
SCALE	AS SHOWN

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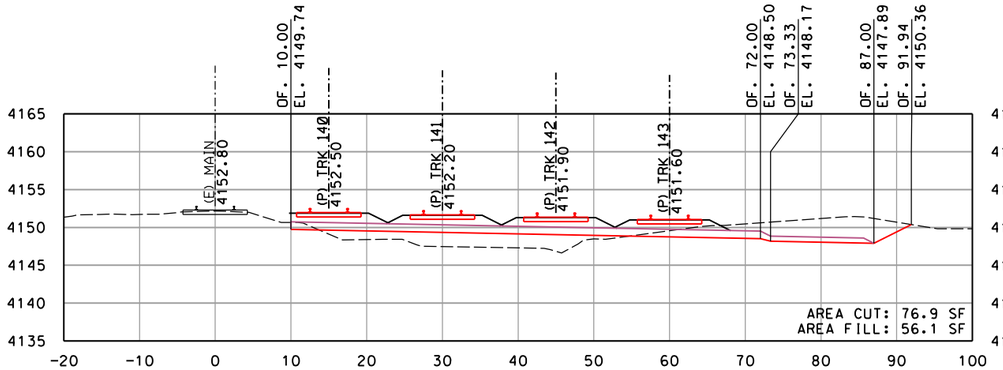
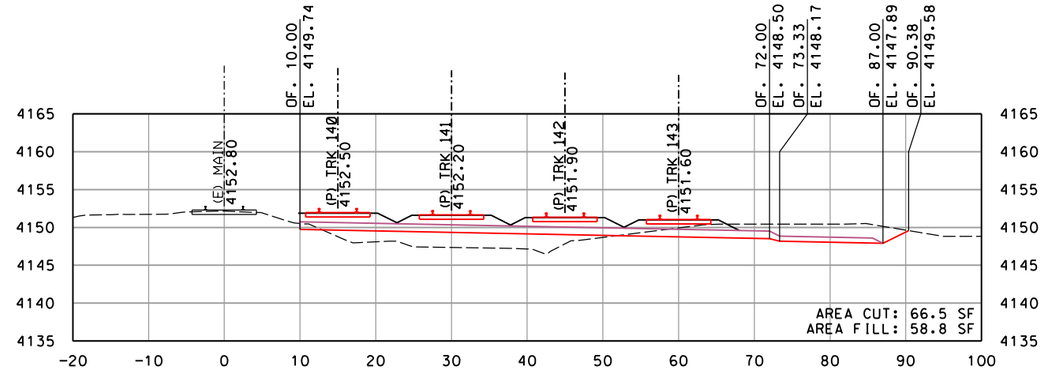
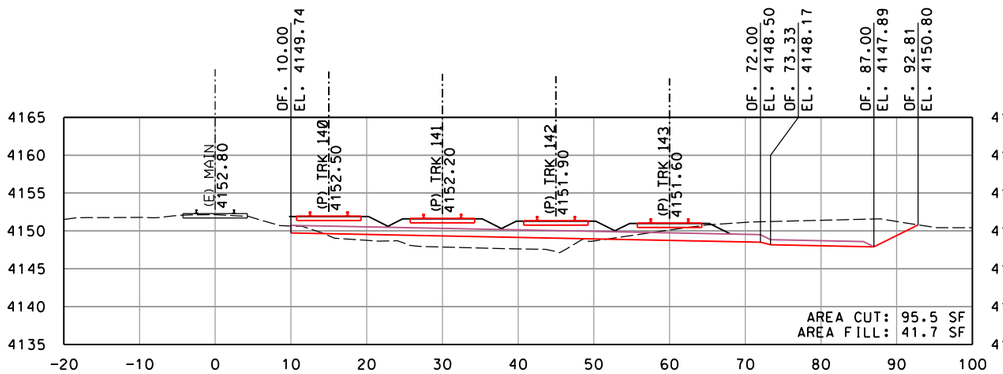
Date: 02\22\2022



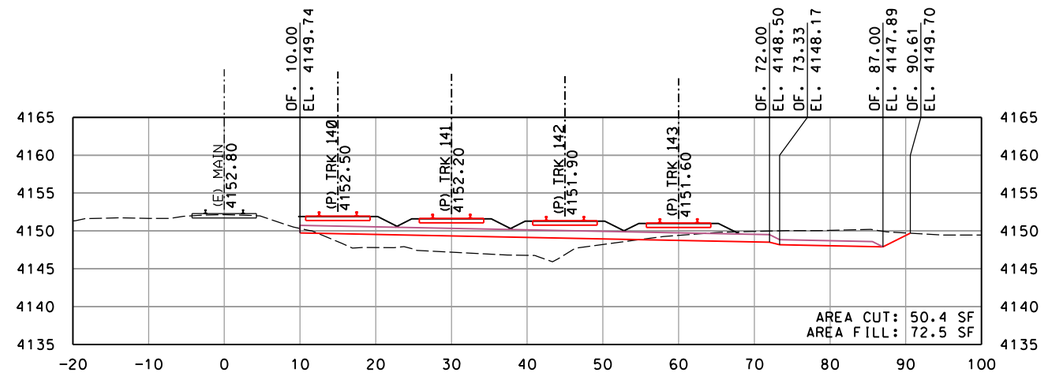
STA. 637+00



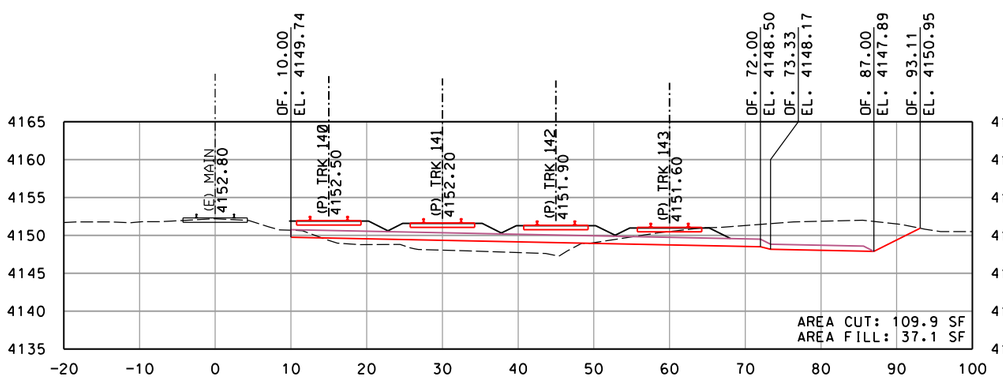
STA. 638+50



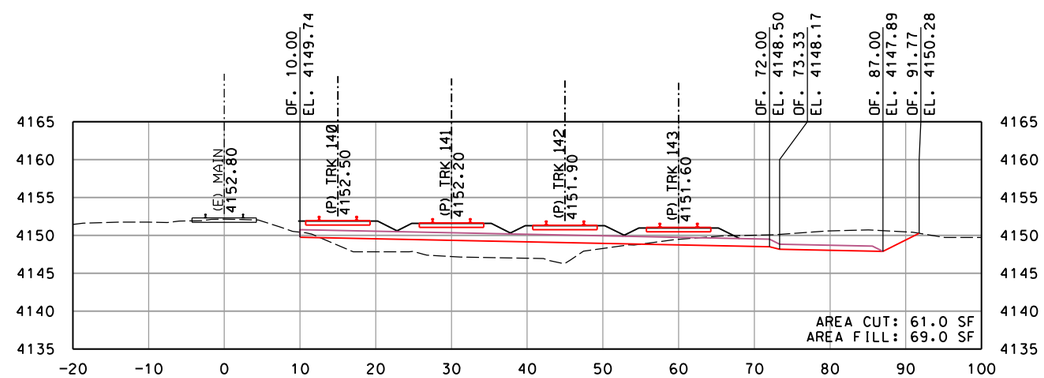
STA. 636+50



STA. 638+00



STA. 636+00



STA. 637+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 636+00 TO STA. 638+50
SHEET 32 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-32
REVISION	
SHEET NO.	050
SCALE	AS SHOWN

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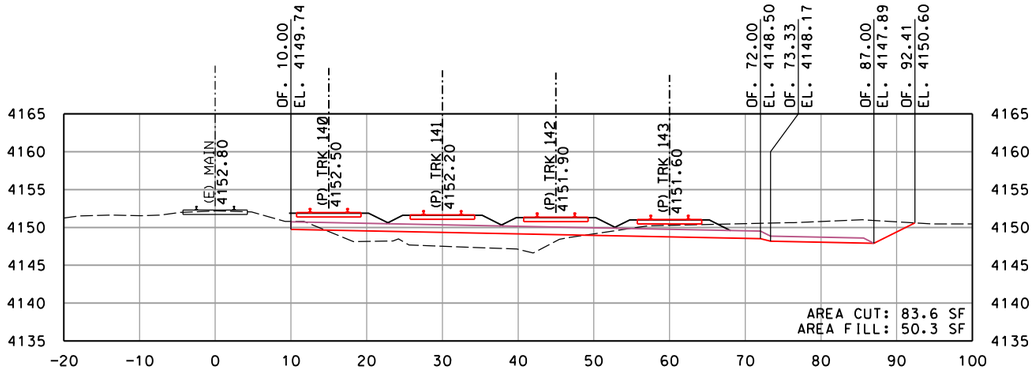
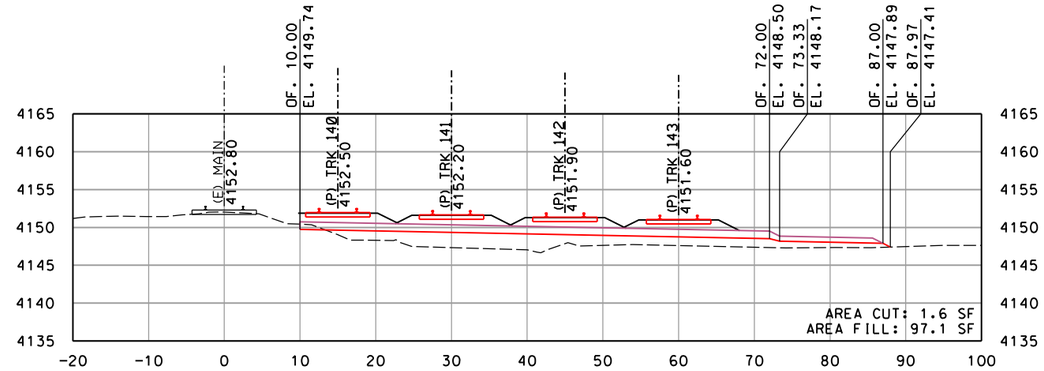
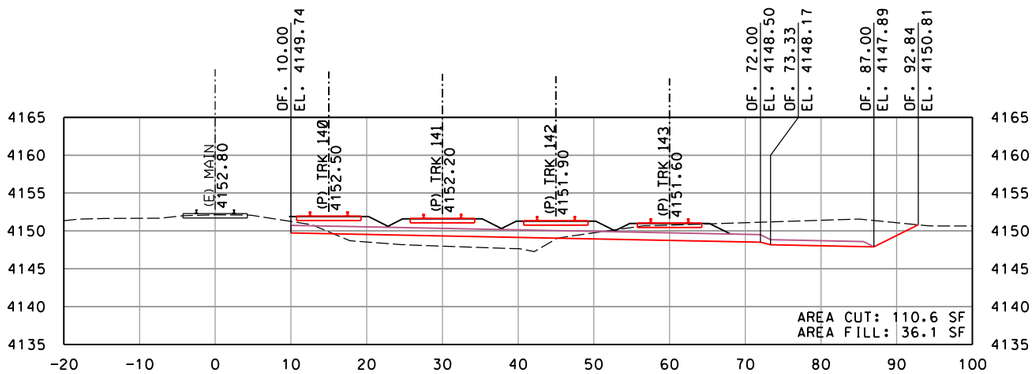
Date: 02\22\2022



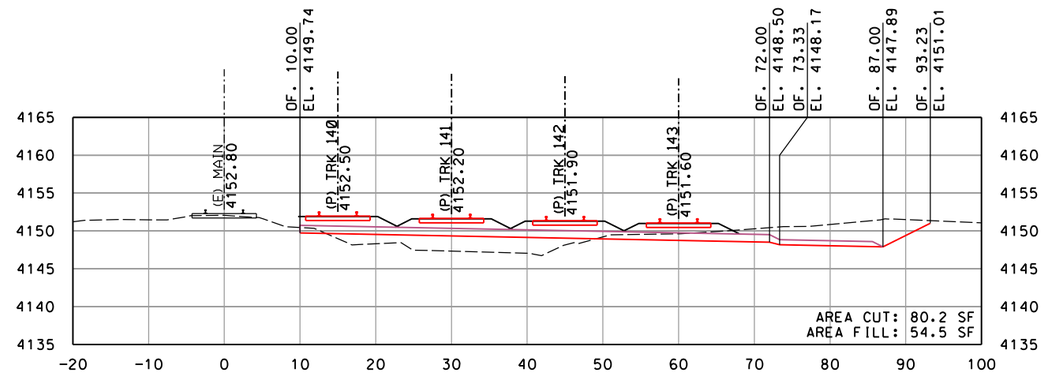
STA. 640+00



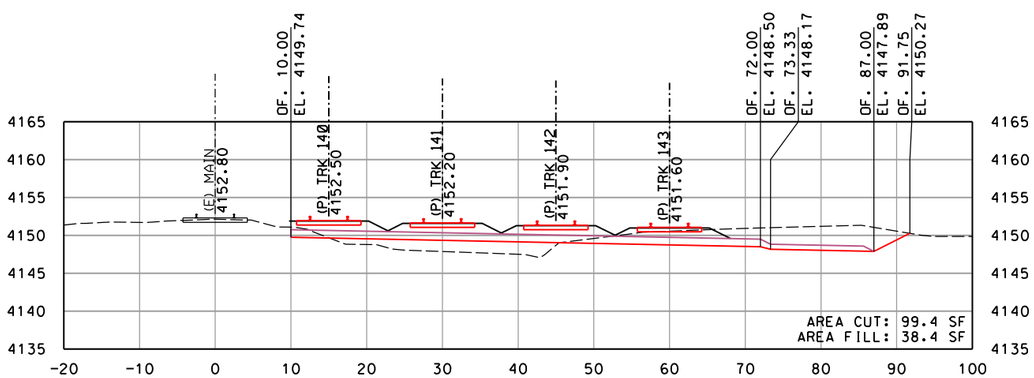
STA. 641+50



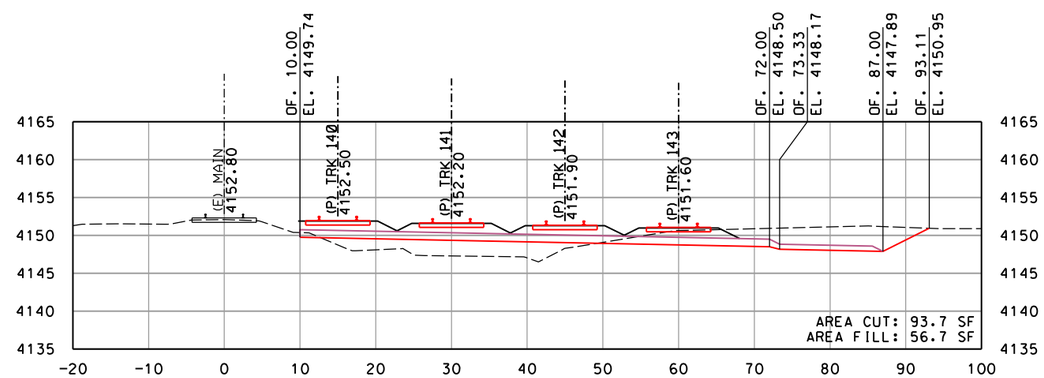
STA. 639+50



STA. 641+00



STA. 639+00



STA. 640+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 639+00 TO STA. 641+50
SHEET 33 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-33
REVISION	
SHEET NO.	051
SCALE	AS SHOWN

Plot driver: WATCO_pdf_300dpi.pltcfg
Pen table: Watco_Railway.tbl
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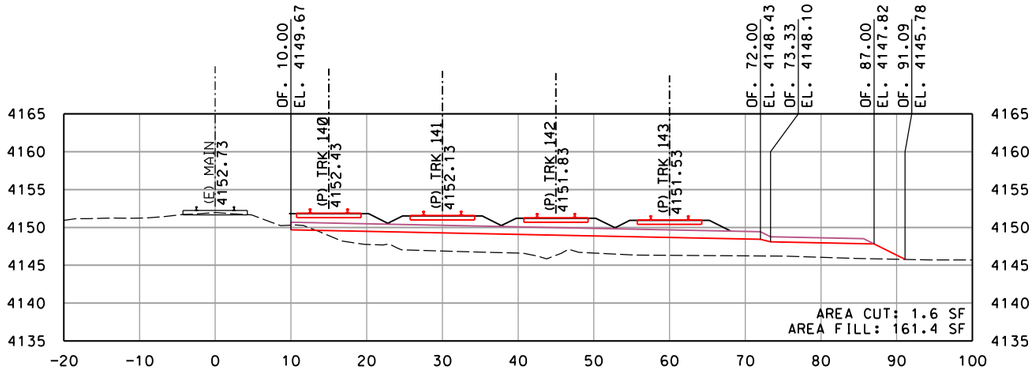
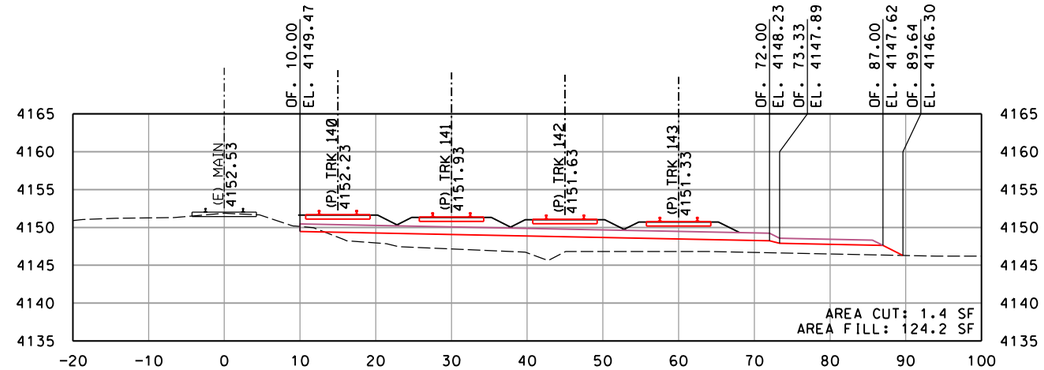
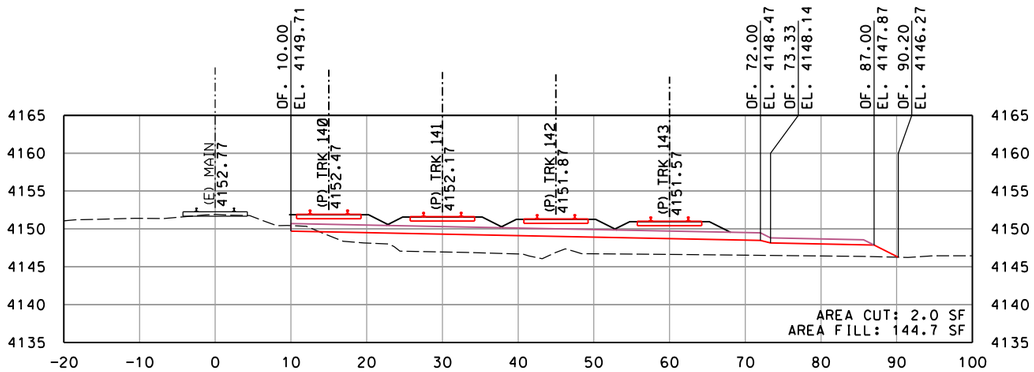
Time: 1:56:33 PM
Date: 02\22\2022



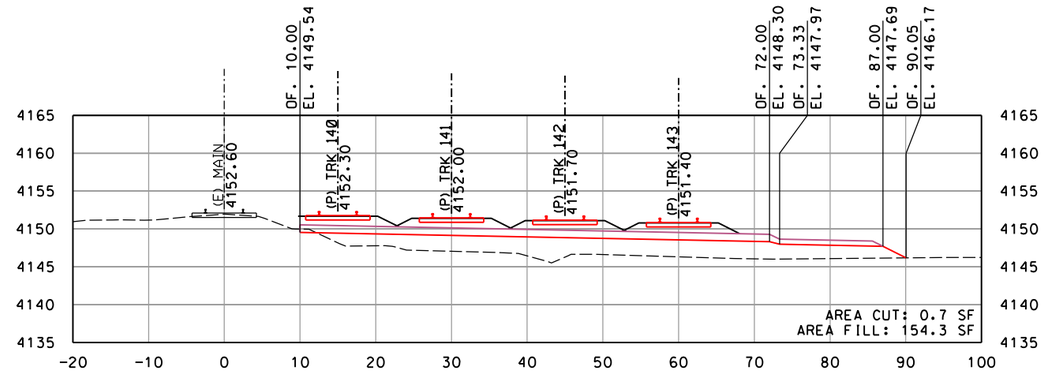
STA. 643+00



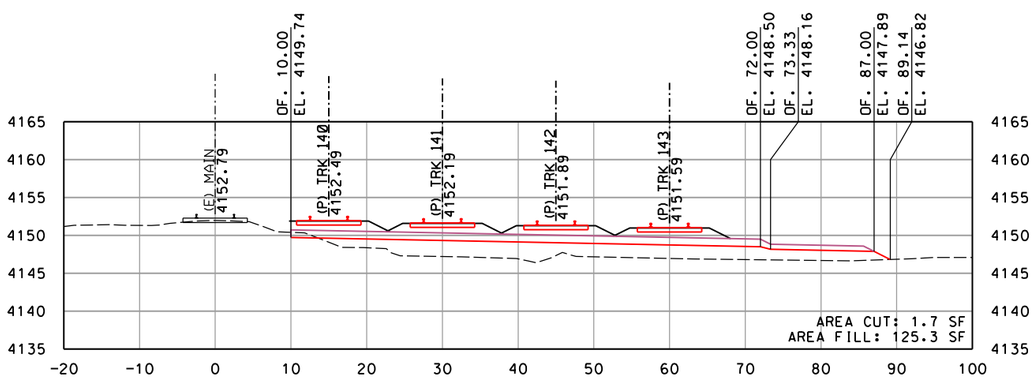
STA. 644+50



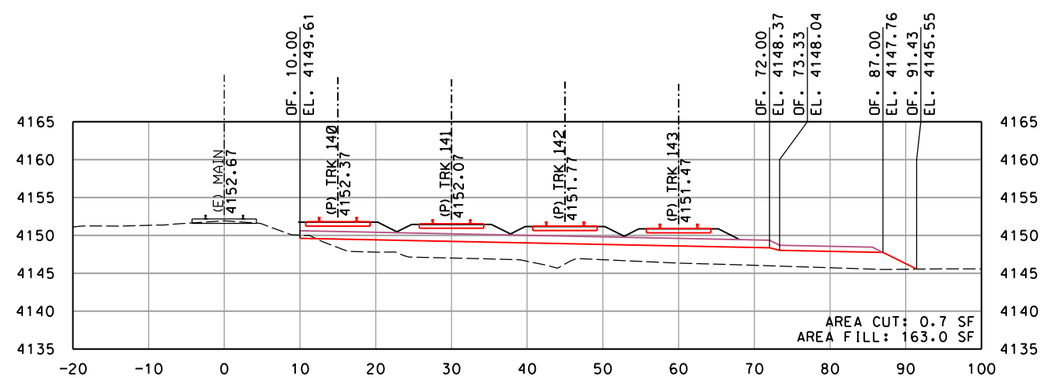
STA. 642+50



STA. 644+00



STA. 642+00



STA. 643+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 642+00 TO STA. 644+50
SHEET 34 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-34
REVISION	
SHEET NO.	052
SCALE	AS SHOWN

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Pen table: Watco_Railway.tbl
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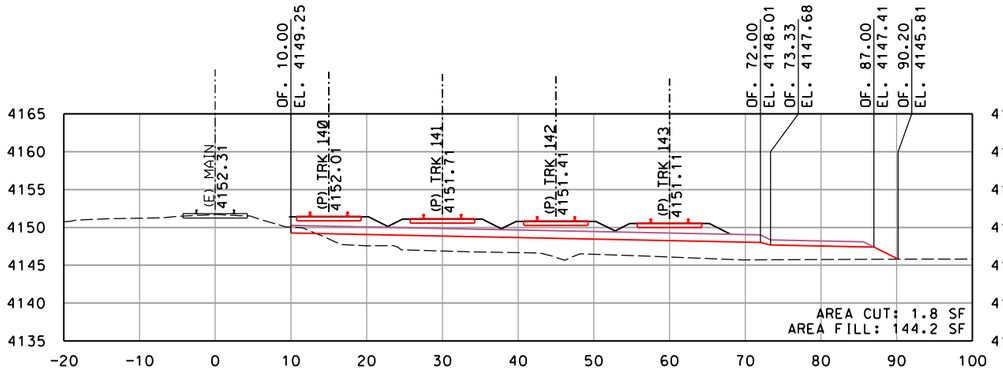
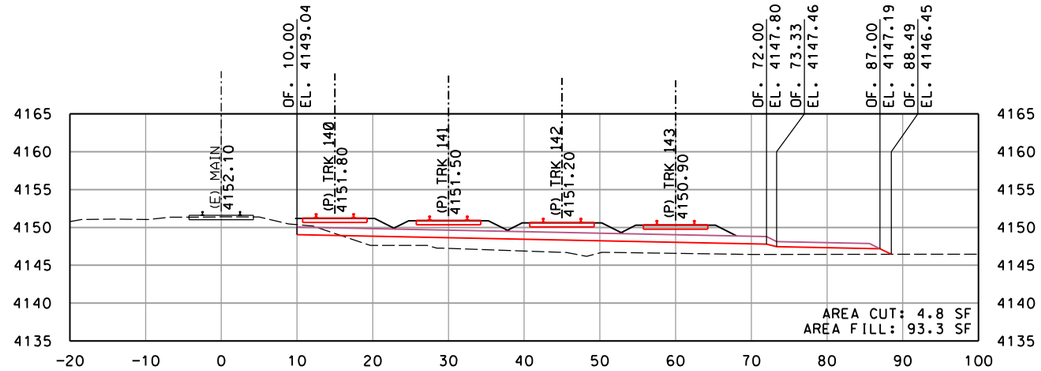
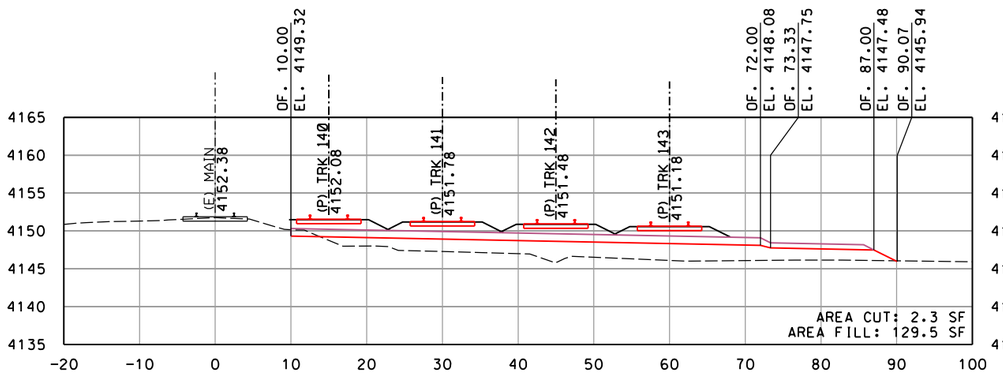
Time: 1:56:34 PM
Date: 02\22\2022



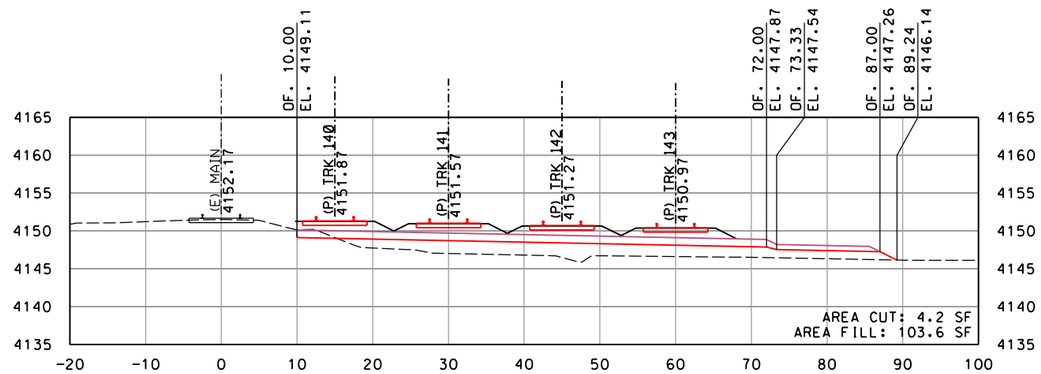
STA. 646+00



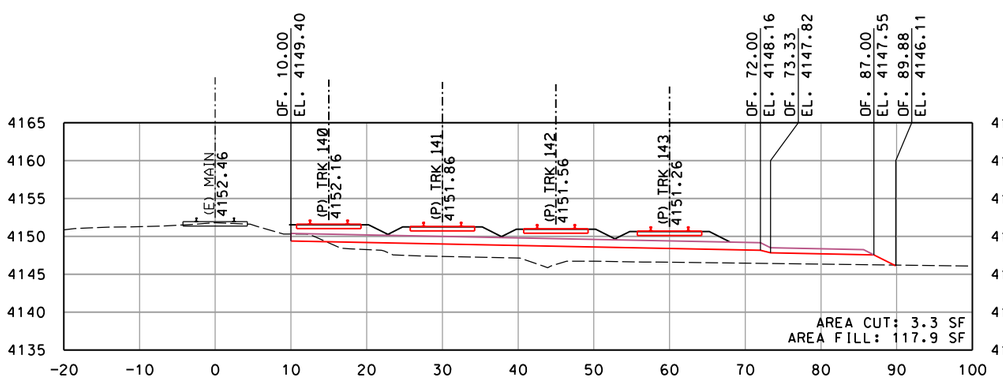
STA. 647+50



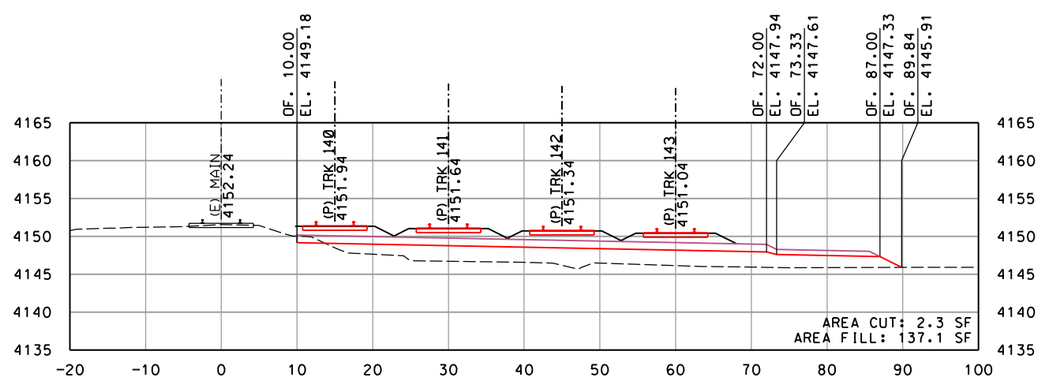
STA. 645+50



STA. 647+00



STA. 645+00



STA. 646+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

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DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

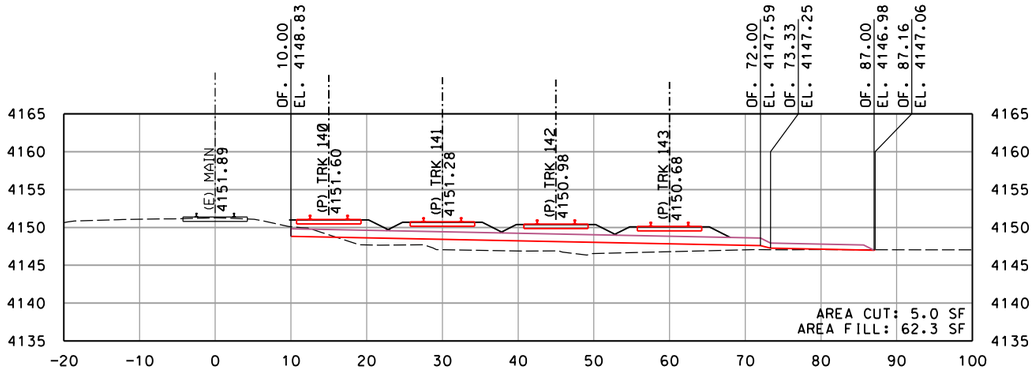
WATCO

EASTERN RAILROAD IDAHO

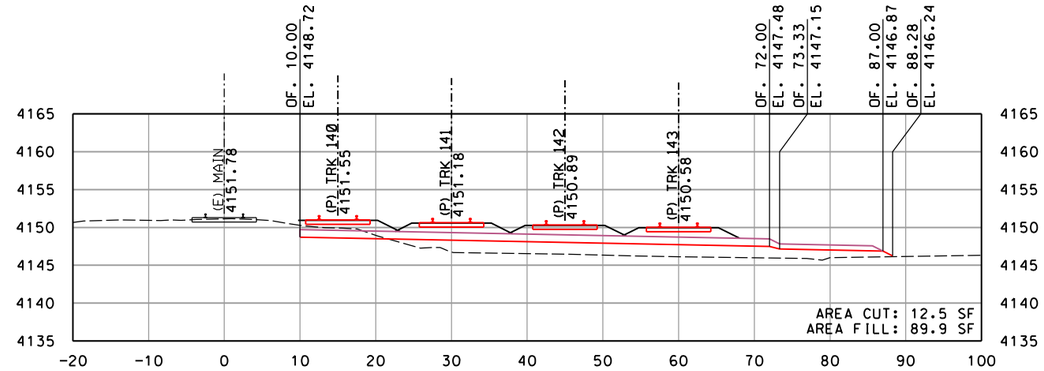
WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 645+00 TO STA. 647+50
SHEET 35 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-35
REVISION	
SHEET NO.	053
SCALE	AS SHOWN

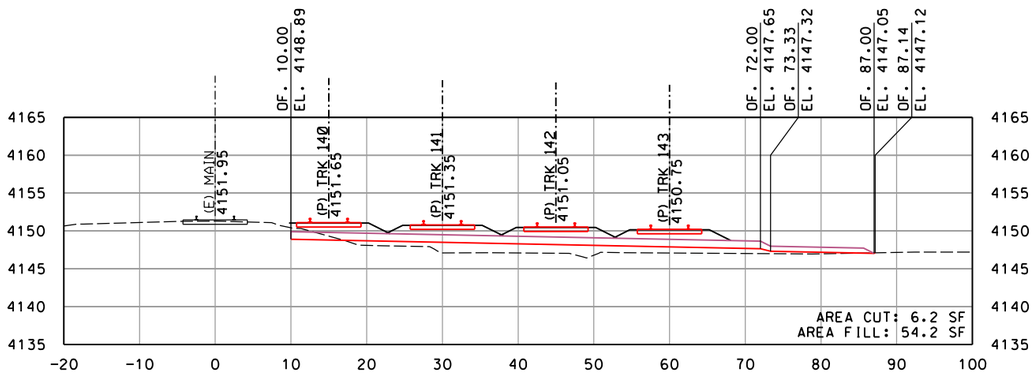
Plot driver: WATCO_pdf_300dpi.pltcfg
Pen table: Watco_Railway.tbl
File: I:\Dropbox (Watco Companies, LLC)\Watco_Design\19_192_Rupert_ID_EIRR_Track_Expansion\Cad\Rail\Sheet\C-3001-XSections.dgn
Date: 02\22\2022
Time: 1:56:34 PM



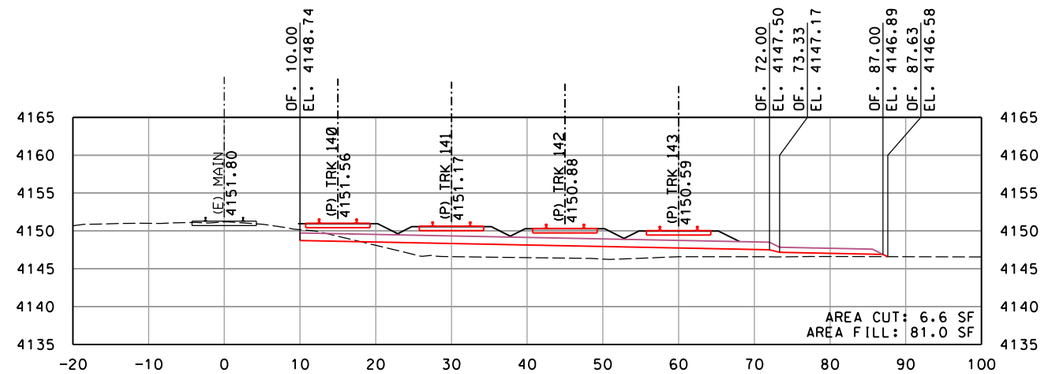
STA. 649+00



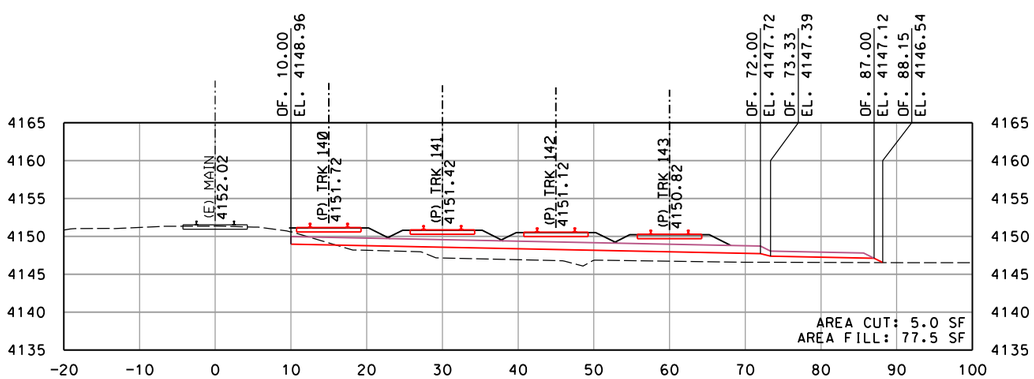
STA. 650+50



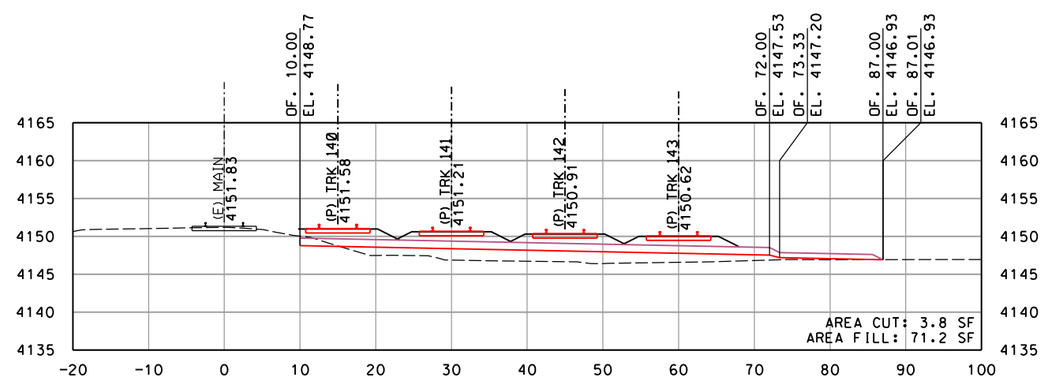
STA. 648+50



STA. 650+00



STA. 648+00



STA. 649+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

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DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 648+00 TO STA. 650+50
SHEET 36 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-36
REVISION	
SHEET NO.	054
SCALE	AS SHOWN

Plot driver: WATCO_pdf_300dpi.pltcfg
Pen table: Watco_Railway.tbl
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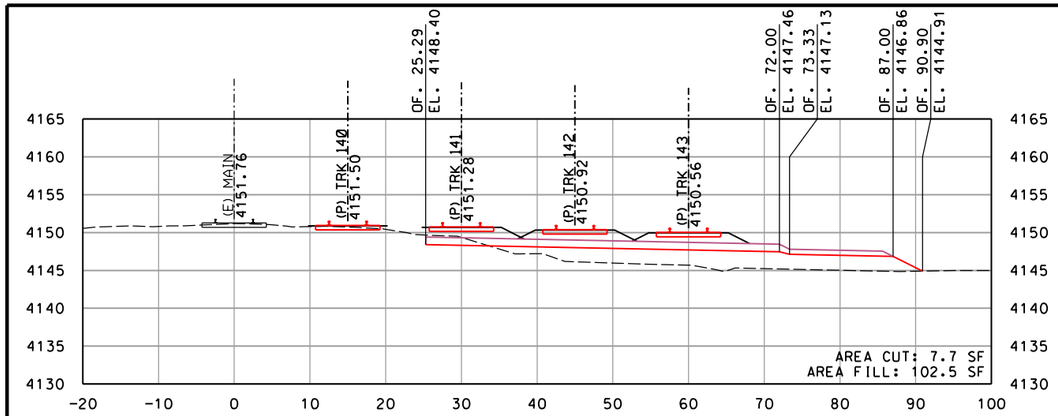
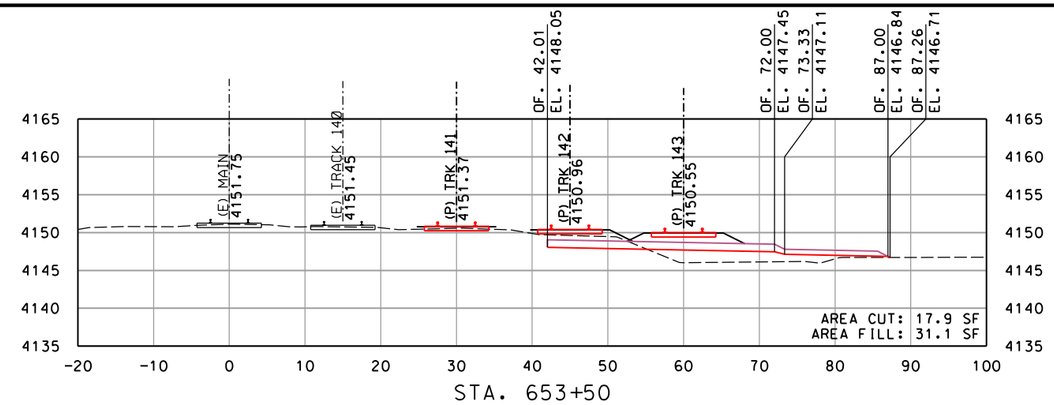
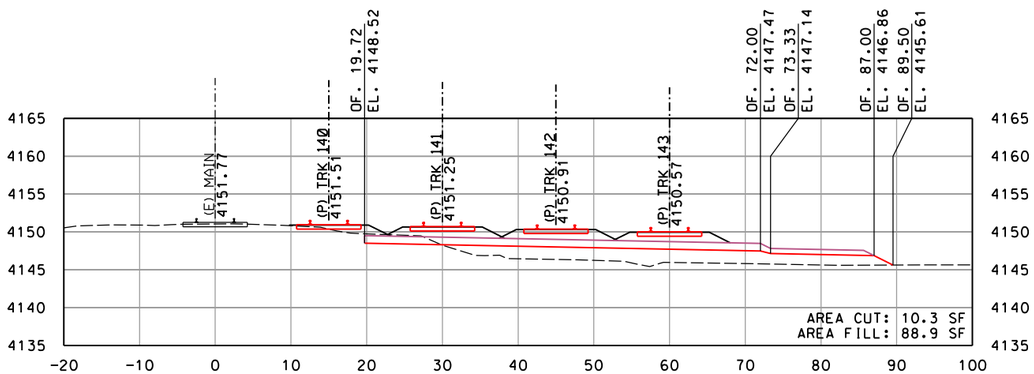
Time: 1:56:35 PM
Date: 02\22\2022



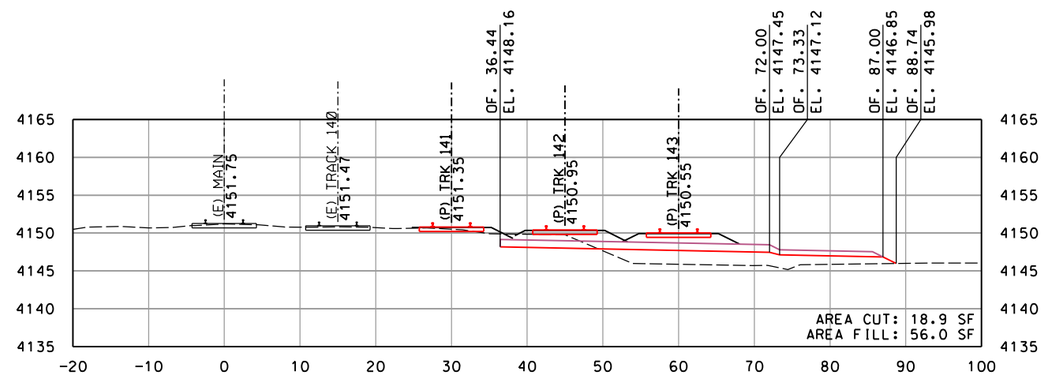
STA. 652+00



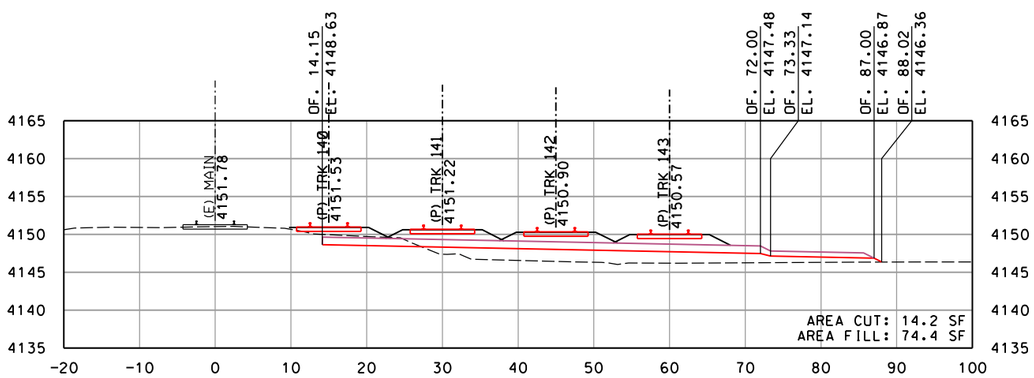
STA. 653+50



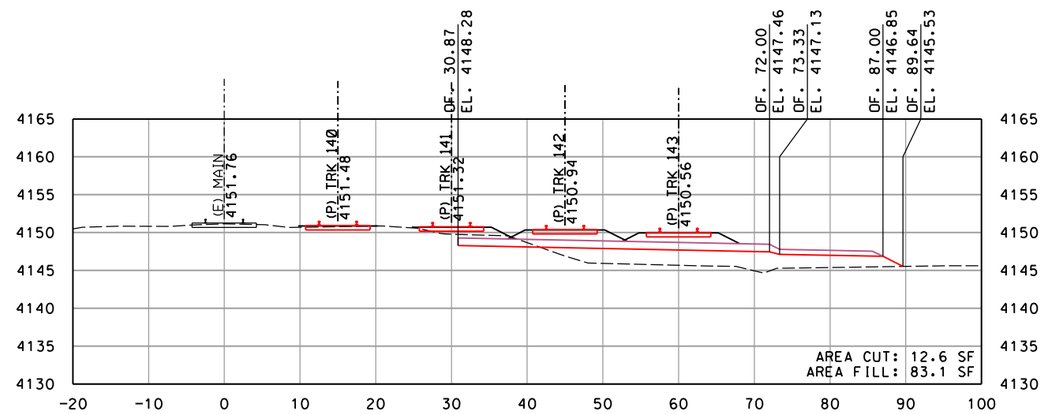
STA. 651+50



STA. 653+00



STA. 651+00



STA. 652+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY / SUB	APP

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DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 651+00 TO STA. 653+50
SHEET 37 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-37
REVISION	
SHEET NO.	055
SCALE	AS SHOWN

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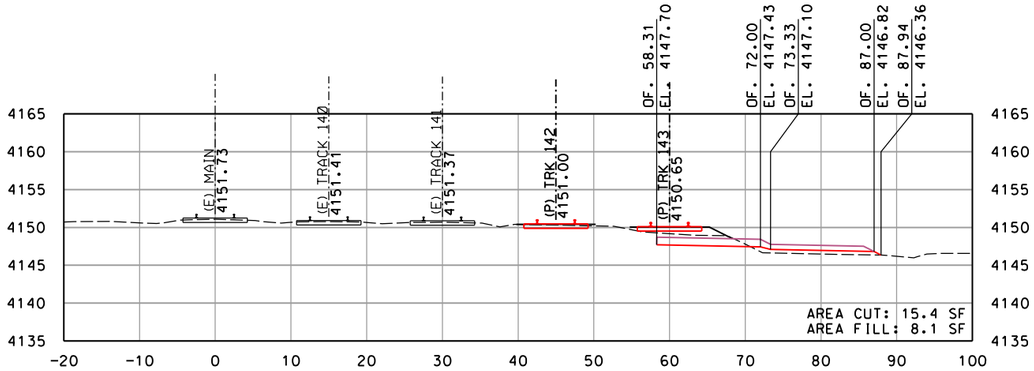
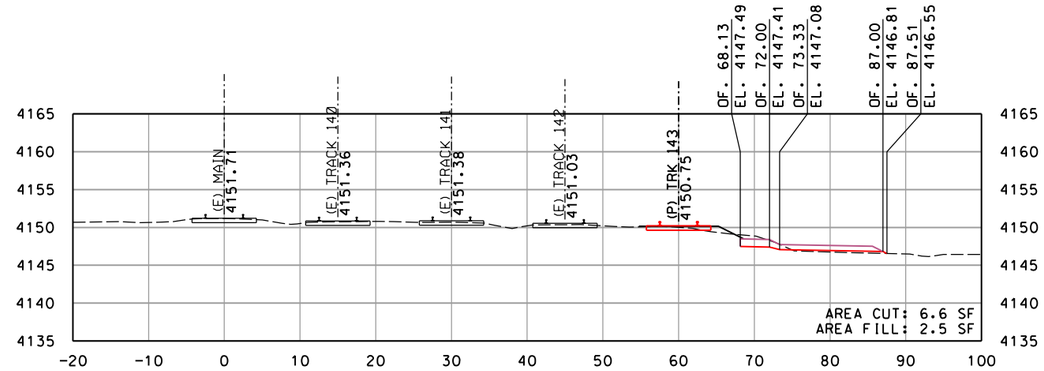
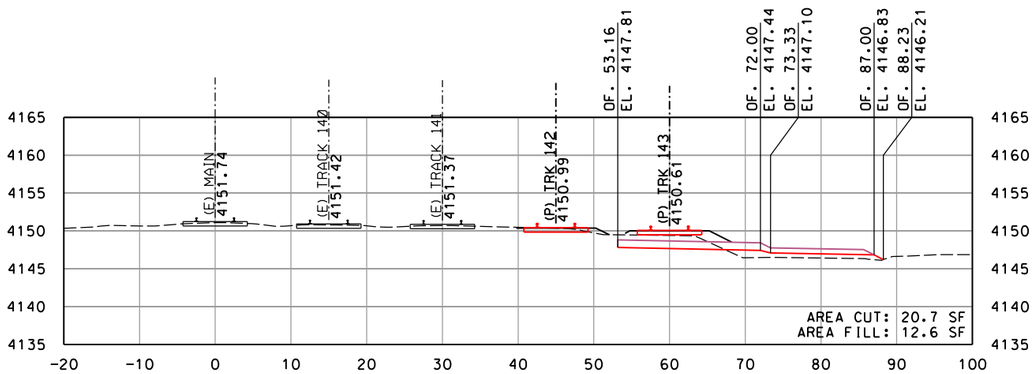
Time: 1:56:35 PM
Date: 02\22\2022



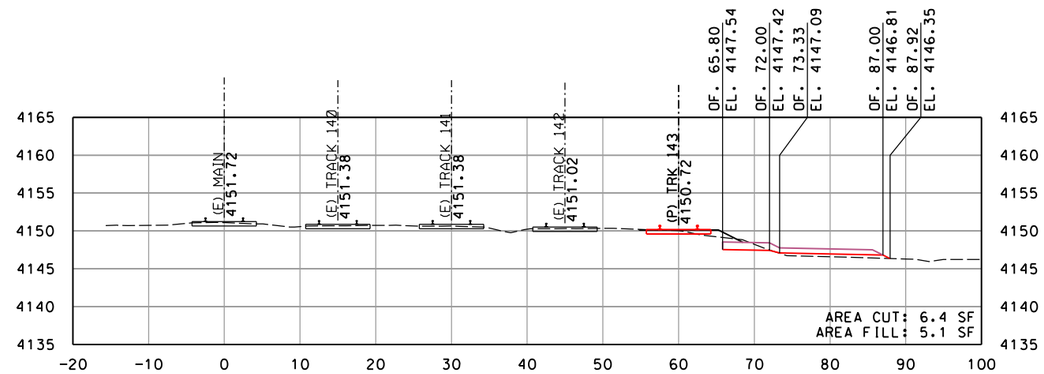
STA. 655+00



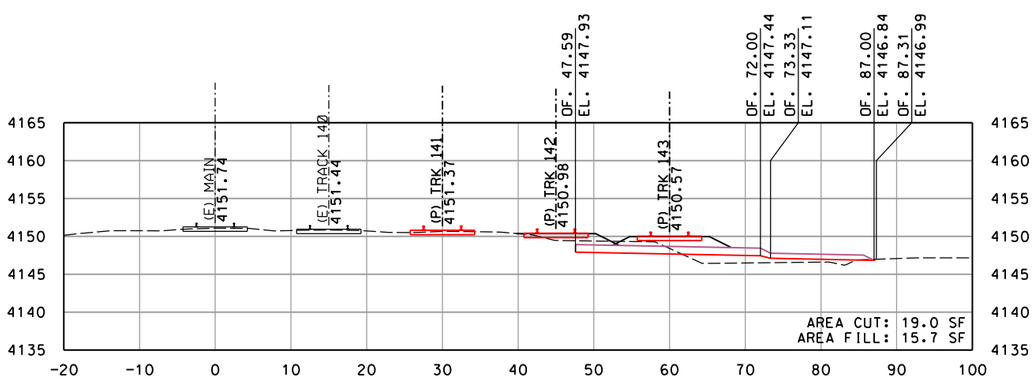
STA. 656+50



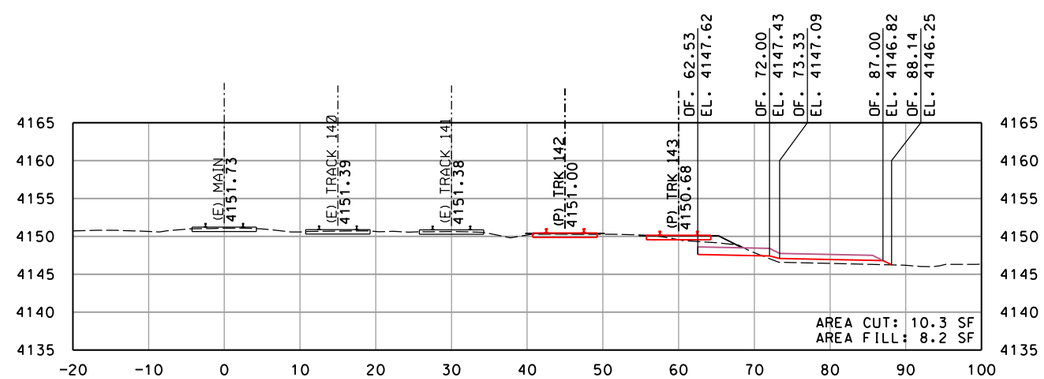
STA. 654+50



STA. 656+00



STA. 654+00



STA. 655+50

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 654+00 TO STA. 656+50
SHEET 38 OF 40

CONTRACT NO.	19.192
DRAWING NO.	RX-38
REVISION	
SHEET NO.	056
SCALE	AS SHOWN

Plot driver: WATCO_pdf_300dpi.pltcfg
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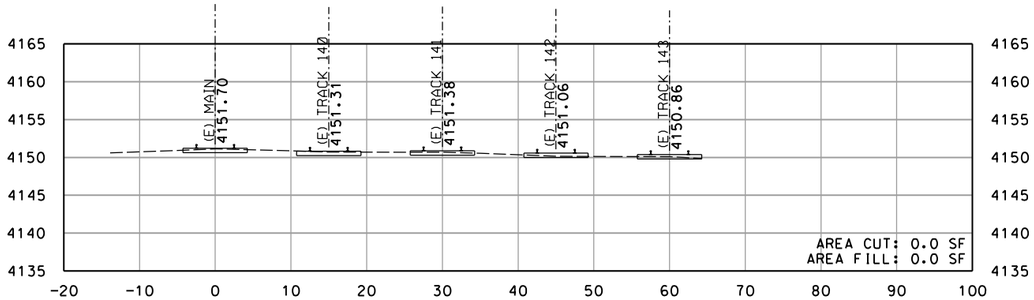
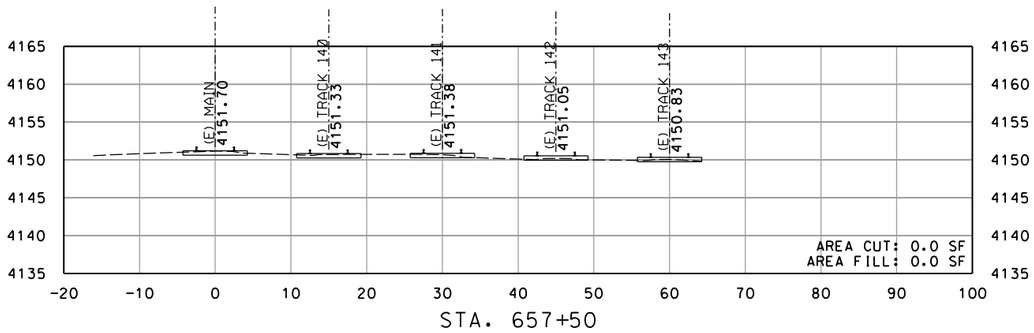
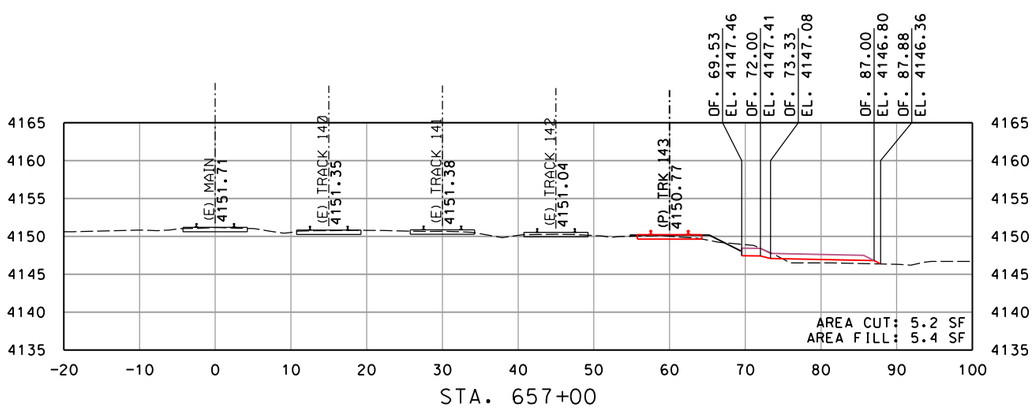
Time: 1:56:35 PM
Date: 02\22\2022







End Area Volume Report

Report Created: 2/16/2022

Baseline Station	Station Quantities - Cut - Area	Cut - Volume	Fill - Area	Fill - Volume
543+00.00	0	0	0	0
543+50.00	0	0	0	0
544+00.00	0	0	0	0
544+50.00	0	0	0	0
545+00.00	1.3	1.20	36.72	34.00
545+50.00	17.27	17.19	44.5	75.20
546+00.00	25.52	39.62	31.2	70.09
546+50.00	20.07	42.21	6.3	34.72
547+00.00	27.95	44.46	10.41	15.47
547+50.00	30.92	54.51	10.67	19.52
548+00.00	27.1	53.72	5.65	15.11
548+50.00	22.4	45.83	4.91	9.78
549+00.00	13.86	33.57	12.59	16.20
549+50.00	14.11	25.90	13.18	23.86
550+00.00	23.84	35.14	9.07	20.60
550+50.00	33.55	53.14	7.15	15.02
551+00.00	35.81	64.22	7.67	13.72
551+50.00	33.18	63.88	11.64	17.88
552+00.00	21.75	50.86	21.14	30.35
552+50.00	17.79	36.61	23.95	41.75
553+00.00	12.47	28.02	26.53	46.74
553+50.00	11.37	22.07	26.52	49.12
554+00.00	19.27	28.37	18.14	41.35
554+50.00	40.32	55.18	10.32	26.35
555+00.00	58.15	91.18	4.41	13.64
555+50.00	58.72	108.21	4.38	8.14
556+00.00	52.33	102.82	3.14	6.96
556+50.00	41.3	86.69	7.34	9.70
557+00.00	30.99	66.94	17.37	22.88
557+50.00	26.16	52.92	19.73	34.35
558+00.00	21.09	43.75	23.8	40.31
558+50.00	18.48	36.64	24	44.26
559+00.00	18.21	33.97	21.29	41.94
559+50.00	18.35	33.85	19.8	38.05
560+00.00	21.26	36.68	17.39	34.44
560+50.00	16.69	35.14	24.9	39.16
561+00.00	10.41	25.09	33.33	53.92
561+50.00	10.63	19.48	37.82	65.88
562+00.00	30.76	38.32	17.1	50.85
562+50.00	48.6	73.48	13.05	27.92
563+00.00	49.23	90.58	10.5	21.81
563+50.00	46.35	88.50	8.37	17.47
564+00.00	62.85	101.11	2.04	9.64
564+50.00	85.78	137.62	1.13	2.94
565+00.00	73.98	147.93	7.54	8.03
565+50.00	40.38	105.89	20.51	25.97
566+00.00	14.96	51.24	35.98	52.31
566+50.00	4.7	18.20	40.99	71.27
567+00.00	6.59	10.45	37.31	72.50
567+50.00	4.58	10.34	39.2	70.84
568+00.00	8.25	11.88	36.29	69.90
568+50.00	16.29	22.72	28.36	59.86
569+00.00	20.69	34.24	25.57	49.94
569+50.00	30	46.94	21.39	43.48
570+00.00	44.61	69.08	9.02	28.16
570+50.00	38.96	77.38	5.2	13.17
571+00.00	24.49	58.75	16.45	20.05
571+50.00	17.68	39.05	29.31	42.37
572+00.00	10.2	25.81	32.73	57.44
572+50.00	10.73	19.38	33.59	61.41
573+00.00	13.92	22.82	33.42	62.05
573+50.00	17.55	29.14	35.01	63.36
574+00.00	11.52	26.92	46.04	75.05
574+50.00	12.41	22.16	50.63	89.51
575+00.00	18.19	28.33	44.54	88.12
575+50.00	19.44	34.84	44.78	82.70
576+00.00	6.97	24.45	55.62	92.96
576+50.00	5.02	11.10	67.62	114.11
577+00.00	5.79	10.01	73.19	130.38
577+50.00	0.52	5.84	73.61	135.93
578+00.00	0.39	0.84	74.32	136.97
578+50.00	7.09	6.93	40.81	106.60
579+00.00	11.03	16.78	31.46	66.92
579+50.00	12.69	21.96	22.89	50.32
580+00.00	11.02	21.95	15.98	35.99
580+50.00	4.06	13.96	14.61	28.32
581+00.00	2.21	5.81	24.62	36.32
581+50.00	2.45	4.31	27.09	47.88
582+00.00	2.9	4.95	28.78	51.73
582+50.00	4.76	7.09	27.33	51.95
583+00.00	9.26	12.98	32.39	55.30
583+50.00	13.41	20.99	27.18	55.16
584+00.00	15.66	26.92	30.72	53.61
584+50.00	10.23	23.97	36.76	62.48
585+00.00	9.45	18.22	42.28	73.19
585+50.00	12.48	20.31	52.46	87.72
586+00.00	10.39	21.18	62.31	106.27
586+50.00	8.5	17.49	71.03	123.46
587+00.00	8.53	15.77	80.52	140.32
587+50.00	6.46	13.88	82.51	150.95
588+00.00	4.87	10.49	78.79	149.35
588+50.00	3.76	7.99	70.57	138.30
589+00.00	0.49	3.94	71.47	131.52
589+50.00	0.9	1.29	59.49	121.26
590+00.00	5.18	5.63	47.07	98.67
590+50.00	6.55	10.86	40.49	81.07
591+00.00	5.08	10.77	38.39	73.04
591+50.00	4.04	8.44	35.47	68.39
592+00.00	3.74	7.20	32.32	62.77
592+50.00	4.72	7.83	35.62	62.91
593+00.00	5.32	9.30	35.85	66.18
593+50.00	2.51	7.25	32.79	63.56
594+00.00	2.8	4.92	39.1	66.56
594+50.00	0.42	2.98	45.82	78.63
595+00.00	1.95	2.19	34.81	74.66
595+50.00	13.85	14.63	21.93	52.54
596+00.00	11.68	23.64	27.69	45.94
596+50.00	10.25	20.31	38.12	60.94
597+00.00	7.93	16.83	45.68	77.59
597+50.00	10.29	16.87	38.85	78.27
598+00.00	17.24	25.49	25.68	59.75
598+50.00	25.57	39.64	12.48	35.33
599+00.00	28.92	50.45	8.09	19.05
599+50.00	20.23	45.51	11.4	18.05
600+00.00	19.12	36.44	8.88	18.78
600+50.00	26.74	42.46	2.4	10.44
601+00.00	29.6	52.17	0.85	3.01
601+50.00	16.53	42.71	2.58	3.18
602+00.00	4.64	19.60	11.25	12.81
602+50.00	7.13	10.90	4.35	14.44
603+00.00	4.9	11.14	6.1	9.68
603+50.00	18.18	21.37	3.7	9.07
604+00.00	17.48	33.02	4.74	7.81
604+50.00	22.05	36.60	3.4	7.54
605+00.00	20.66	39.55	6.08	8.78
605+50.00	15.52	33.50	12.3	17.02
606+00.00	13.64	27.00	17.42	27.52
606+50.00	12.19	23.92	19.13	33.84
607+00.00	9.77	20.33	20.79	36.96
607+50.00	7.9	16.36	13.61	31.85
608+00.00	5	11.94	14.56	26.08
608+50.00	6.81	10.94	8.24	21.11
609+00.00	15.02	20.21	0.89	8.45
609+50.00	20.41	32.81	0	0.82
610+00.00	17.89	35.46	0.66	0.61
610+50.00	21.77	36.72	1.9	2.37
611+00.00	24.26	42.62	2.81	4.36
611+50.00	34.47	54.38	0.37	2.94
612+00.00	48.82	77.12	0	0.34
612+50.00	47.89	89.55	0	0.00
613+00.00	33.78	75.62	0.23	0.21
613+50.00	32.28	61.17	1.54	1.64
614+00.00	15.29	44.05	7.1	8.00
614+50.00	14	27.12	8.74	14.67
615+00.00	23.52	34.74	2.67	10.56
615+50.00	20.51	40.77	3.84	6.03
616+00.00	15.38	33.23	5.02	8.20
616+50.00	10.98	24.41	13.72	17.35
617+00.00	5.34	15.11	9.79	21.77
617+50.00	5.31	9.86	6.47	15.06
618+00.00	4.53	9.11	10.64	15.84
618+50.00	4.25	8.20	6.31	15.69
619+00.00	6.68	10.12	4	9.55
619+50.00	21.33	25.94	0	3.70
620+00.00	54.67	70.37	0	0.00
620+50.00	44.56	91.88	0	0.00
621+00.00	63.58	100.13	0	0.00
621+50.00	99.59	151.08	14.49	13.42
622+00.00	86.8	172.58	11.76	24.31
622+50.00	88.51	162.32	9.42	19.61
623+00.00	87.5	162.97	16.18	23.70
623+50.00	100.37	173.95	17.37	31.06
624+00.00	116.37	200.69	8.73	24.17
624+50.00	123.14	221.77	7.27	14.81
625+00.00	108.49	214.47	10.18	16.16
625+50.00	86.68	180.71	17.59	25.71
626+00.00	88.21	161.94	10.94	26.42
626+50.00	73.88	150.08	11.26	20.56
627+00.00	72	135.07	11.18	20.78
627+50.00	65.79	127.58	15.15	24.38
628+00.00	39.57	97.56	21.36	33.81
628+50.00	39.77	73.46	26.25	44.08
629+00.00	59.05	91.50	19.18	42.06
629+50.00	78.89	127.72	12.44	29.28
630+00.00	95.75	161.70	5.16	16.30
630+50.00	96.19	177.72	4.43	8.88
631+00.00	98.75	180.50	3.11	6.98
631+50.00	88.13	173.04	1.37	4.15
632+00.00	86.01	161.24	0.3	1.55
632+50.00	107.39	179.07	0.02	0.30
633+00.00	78.77	172.37	0.77	0.73
633+50.00	130.95	194.19	9.91	9.89
634+00.00	132.4	243.84	14.65	22.74
634+50.00	121.86	235.43	21.62	33.58
635+00.00	103.17	208.36	38.49	55.66
635+50.00	100.46	188.55	43.64	76.05
636+00.00	109.85	194.73	37.12	74.78
636+50.00	95.5	190.14	41.72	73.00
637+00.00	76.87	159.60	56.07	90.55
637+50.00	60.99	127.65	68.96	115.77
638+00.00	50.38	103.12	72.5	130.98
638+50.00	66.5	108.22	58.78	121.56
639+00.00	99.37	153.58	38.35	89.94
639+50.00	110.64	194.45	36.09	68.93
640+00.00	83.61	179.86	50.34	80.03
640+50.00	93.7	164.18	56.74	99.15
641+00.00	80.22	161.04	54.5	103.00
641+50.00	1.63	75.79	97.08	140.35
642+00.00	1.72	3.10	125.25	205.86
642+50.00	2.03	3.47	144.71	249.96
643+00.00	1.6	3.36	161.39	283.43
643+50.00	0.69	2.12	163.04	300.40
644+00.00	0.7	1.29	154.25	293.79
644+50.00	1.44	1.98	124.22	257.84
645+00.00	3.32	4.41	117.93	224.21
645+50.00	2.28	5.19	129.55	229.15
646+00.00	1.81	3.79	144.21	253.48
646+50.00	2.34	3.84	137.09	260.46
647+00.00	4.23	6.08	103.57	222.83
647+50.00	4.85	8.41	93.26	182.25
648+00.00	4.99	9.11	77.53	158.14
648+50.00	6.23	10.39	54.23	122.00
649+00.00	5	10.40	62.3	107.90
649+50.00	3.83	8.18	71.18	123.59
650+00.00	6.64	9.69	81.04	140.94
650+50.00	12.55	17.77	89.95	158.32
651+00.00	14.18	24.75	74.41	152.19
651+50.00	10.27	22.64	88.93	151.24
652+00.00	7.68	16.62	102.54	177.29
652+50.00	12.63	18.81	83.12	171.91
653+00.00	18.95	29.24	56.04	128.85
653+50.00	17.88	34.10	31.14	80.72
654+00.00	18.95	34.10	15.66	43.33
654+50.00	20.71	36.72	12.56	26.13
655+00.00	15.38	33.42	8.12	19.15
655+50.00	10.33	23.81	8.16	15.07
656+00.00	6.39	15.48	5.07	12.25
656+50.00	6.64	12.06	2.5	7.01
657+00.00	5.17	10.94	5.36	7.28
657+50.00	0	4.79	0	4.96
658+00.00	0	0.00	0	0.00
658+50.00	0	0.00	0	0.00
659+00.00	0	0.00	0	0.00
Grand Total:		12398.885		13286.91

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS, SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
MAINLINE STA. 657+00 TO STA. 658+00
SHEET 39 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-39
REVISION
SHEET NO. 057
SCALE AS SHOWN

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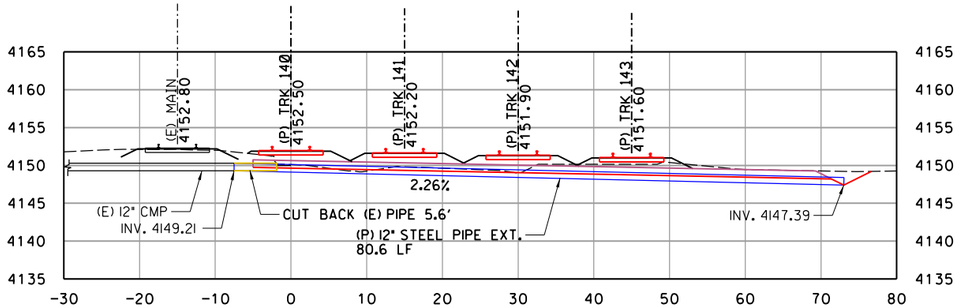
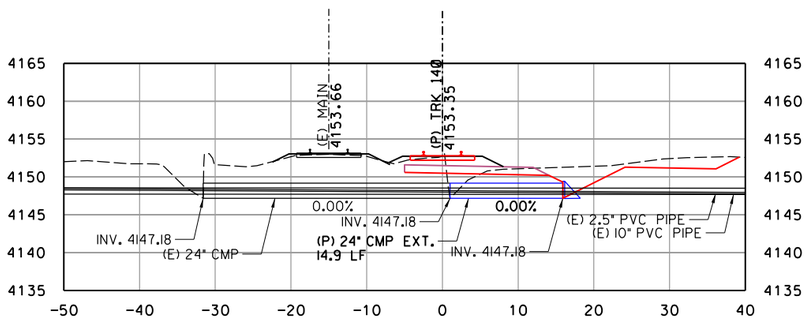
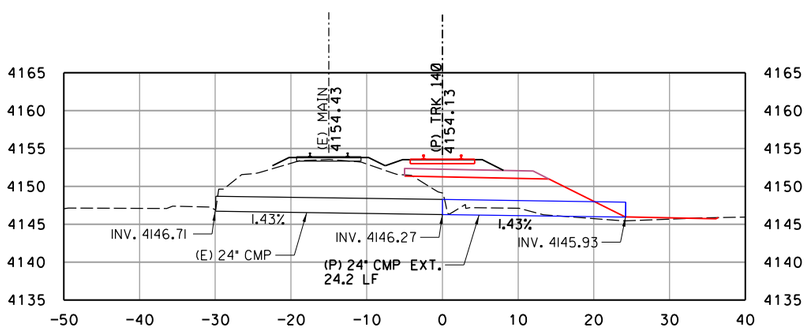
Date: 02\22\2022



STA. 87+51
M.P. 11.98



STA. 57+86
M.P. 11.42



STA. 32+69
M.P. 10.94

10' 0 5' 10' 20'
GRAPHIC SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CROSS SECTIONS
CULVERT SECTIONS
SHEET 40 OF 40

CONTRACT NO. 19.192
DRAWING NO. RX-40
REVISION
SHEET NO. 058
SCALE AS SHOWN

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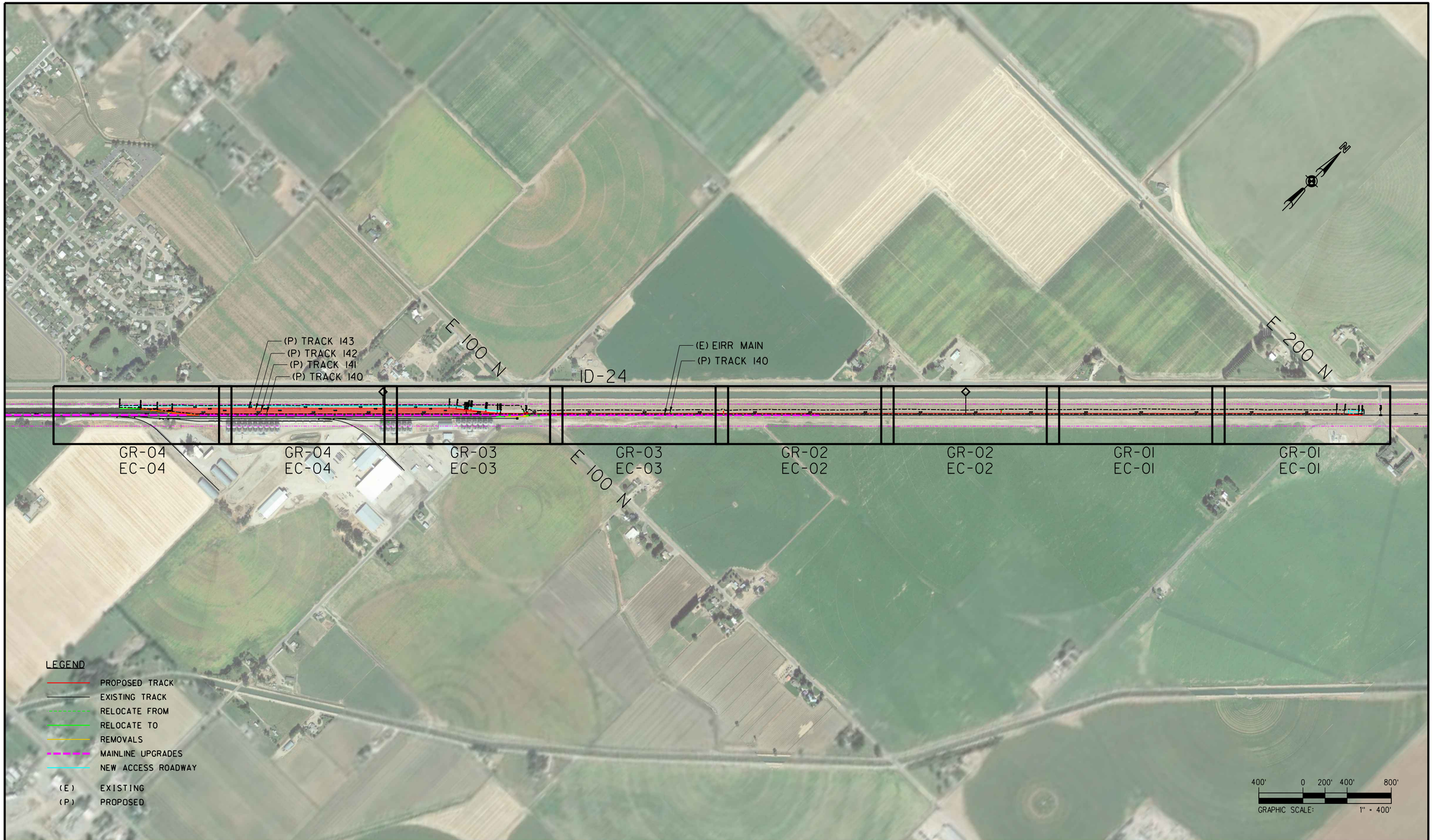
Date: 02\22\2022



REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC. AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
KEY MAP GRADING AND EROSION PLANS

CONTRACT NO.	19.192
DRAWING NO.	GR-00
REVISION	
SHEET NO.	059
SCALE	AS SHOWN

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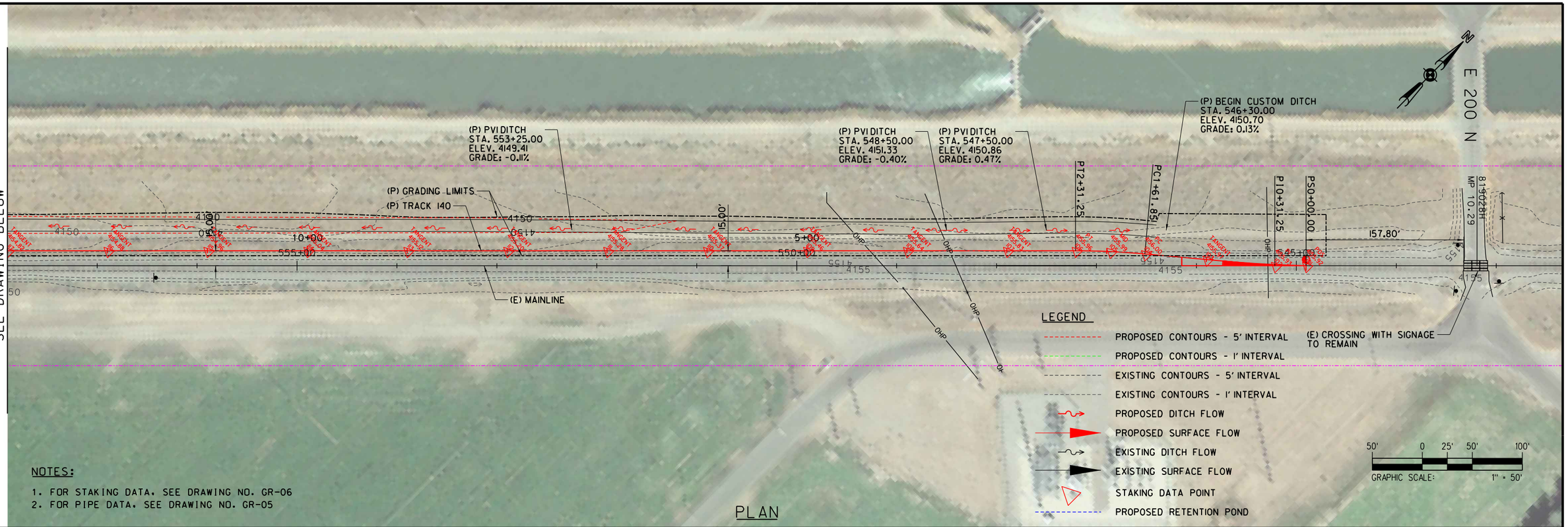
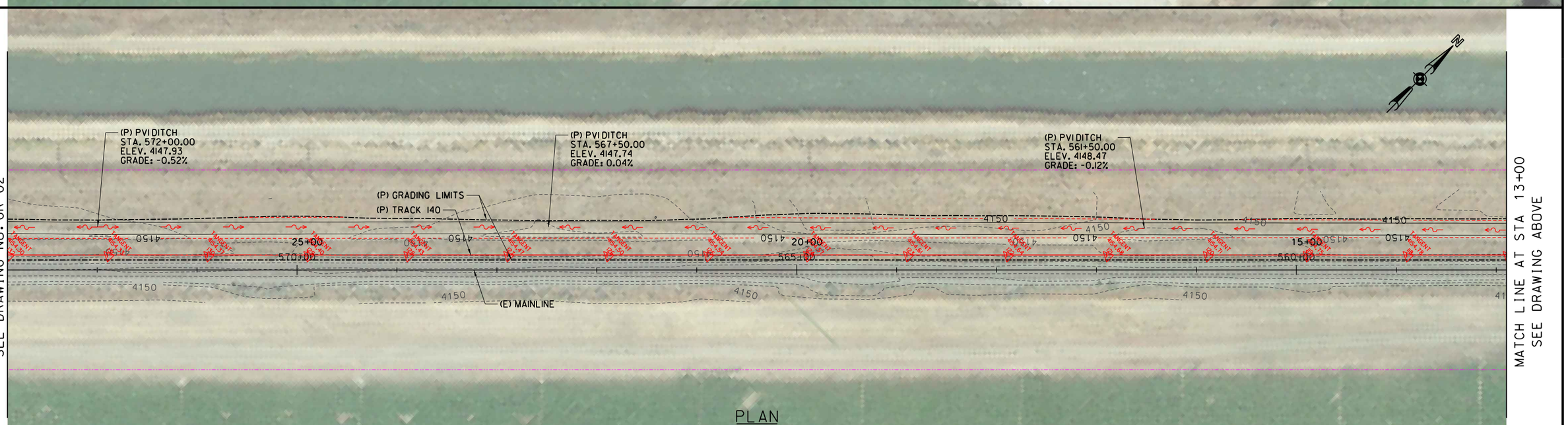
Date: 02\22\2022



NOTES:

1. FOR STAKING DATA, SEE DRAWING NO. GR-06
2. FOR PIPE DATA, SEE DRAWING NO. GR-05

PLAN



PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

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DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
GRADING, DRAINAGE, & STAKING PLAN - SHEET 02 OF 07
STA 0+00 TO STA 28+00

CONTRACT NO.	19.192
DRAWING NO.	GR-01
REVISION	
SHEET NO.	060
SCALE	AS SHOWN

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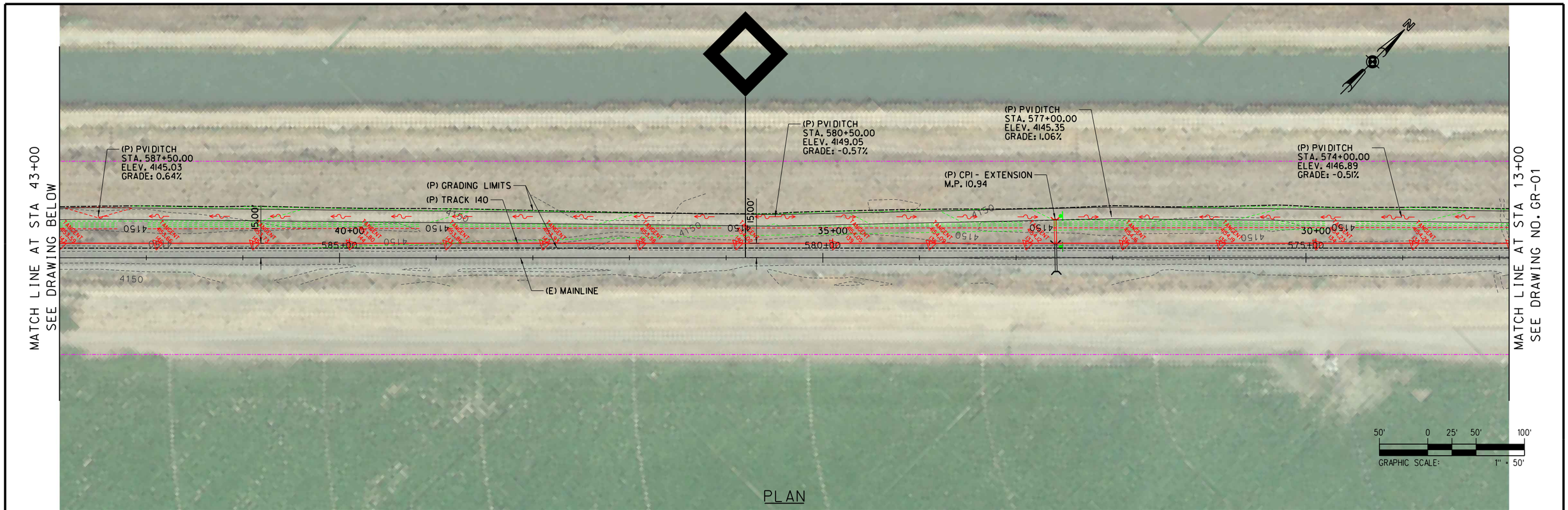

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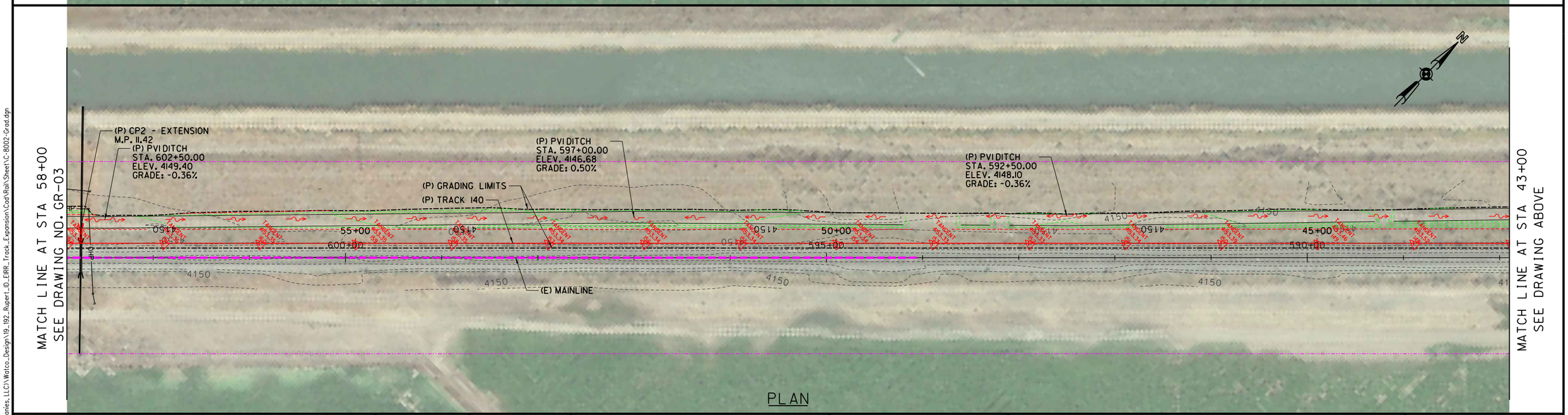

PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC. AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
GRADING, DRAINAGE, & STAKING PLAN - SHEET 03 OF 07
STA 28+00 TO STA 58+00

CONTRACT NO.	19.192
DRAWING NO.	GR-02
REVISION	
SHEET NO.	061
SCALE	AS SHOWN

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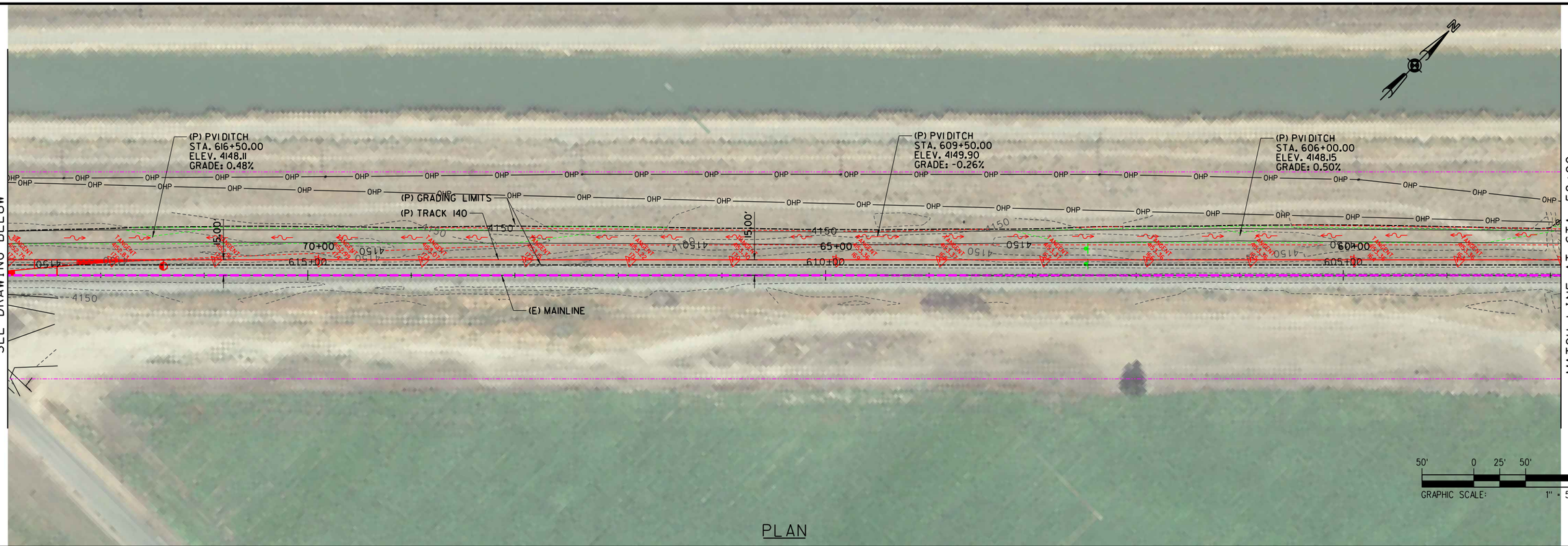

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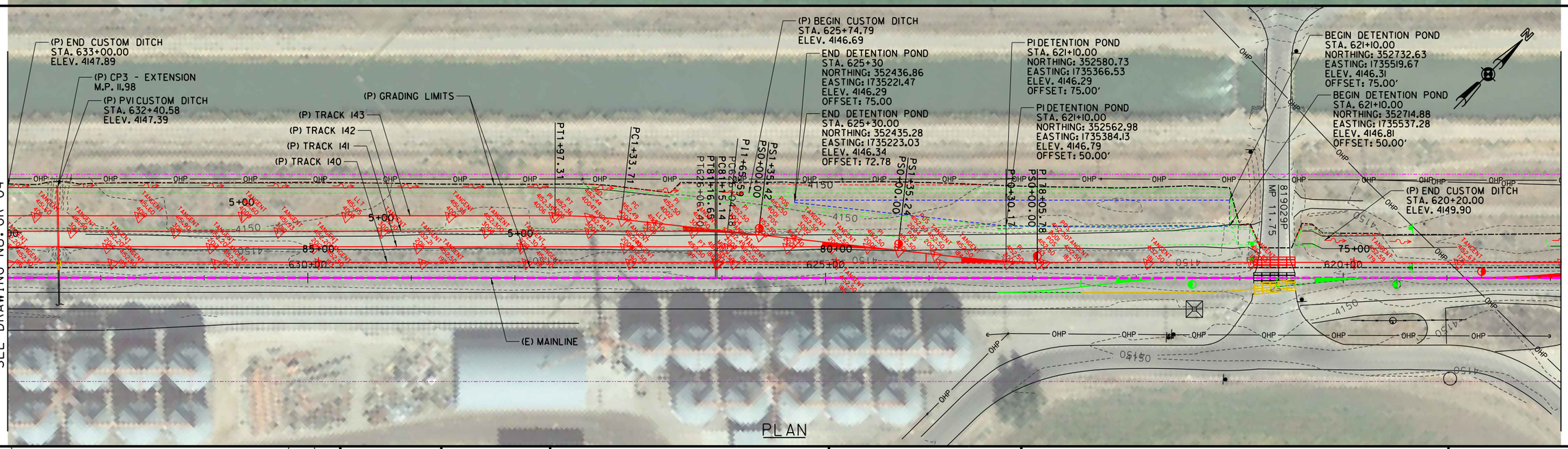

PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAIL ROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
GRADING, DRAINAGE, & STAKING PLAN - SHEET 04 OF 07
STA 58+00 TO STA 88+00

CONTRACT NO.	19.192
DRAWING NO.	GR-03
REVISION	
SHEET NO.	062
SCALE	AS SHOWN

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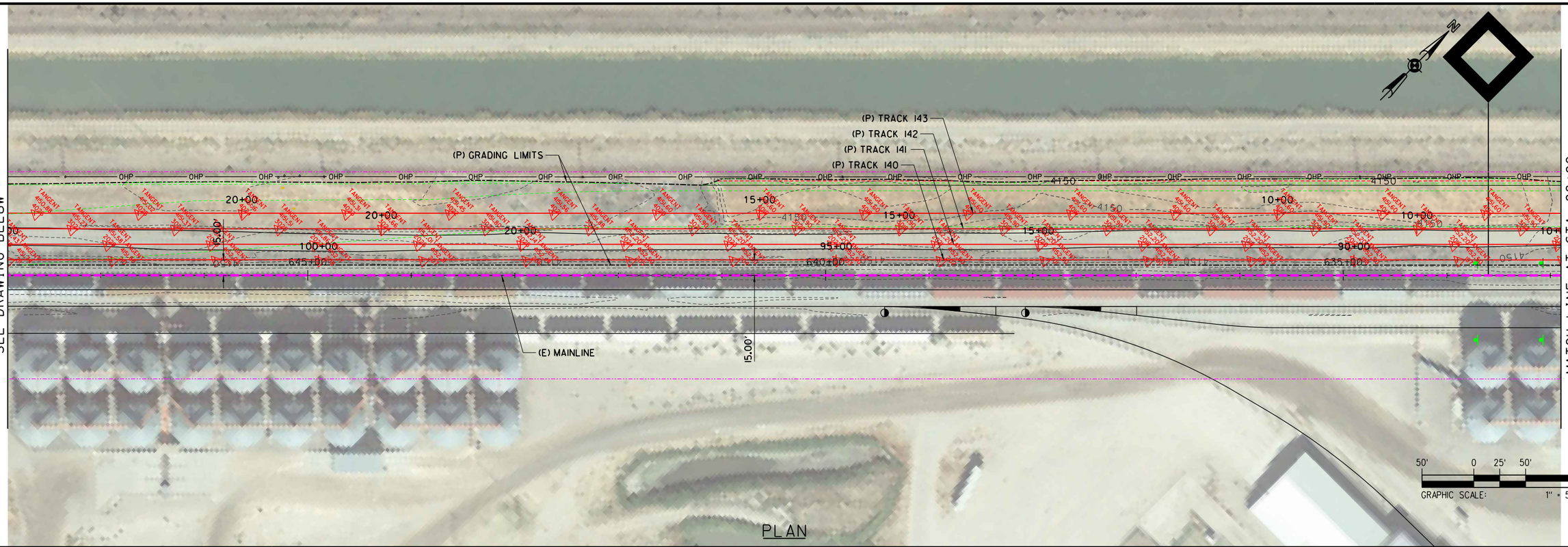

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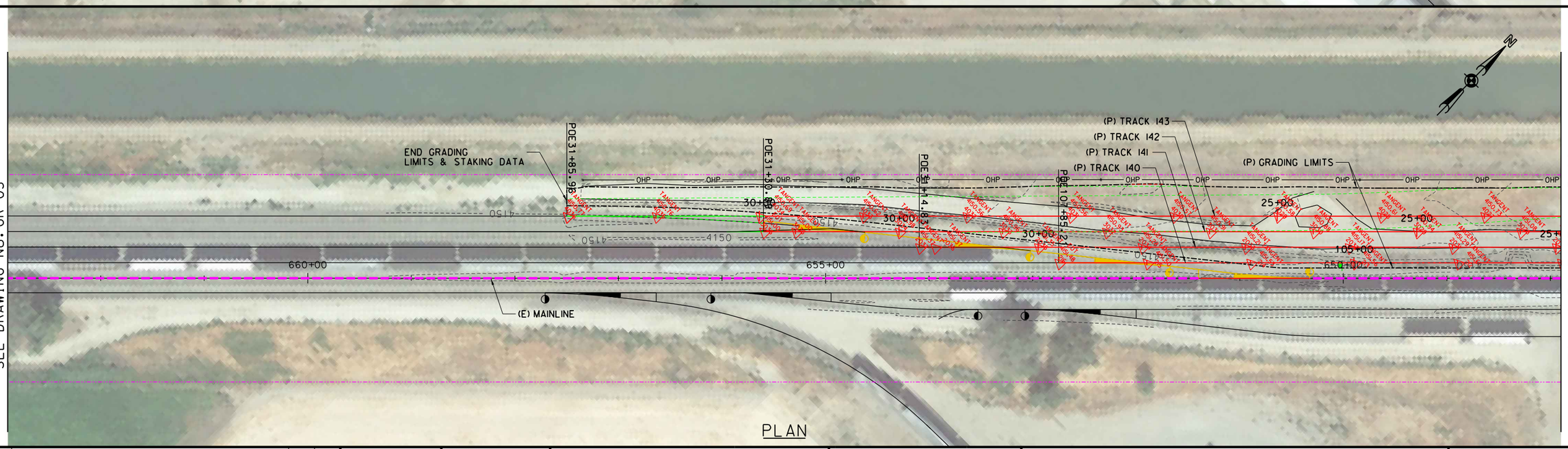


PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS, SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
GRADING, DRAINAGE, & STAKING PLAN - SHEET 05 OF 07
STA 88+00 TO STA 107+85.21

CONTRACT NO.	19.192
DRAWING NO.	GR-04
REVISION	
SHEET NO.	063
SCALE	AS SHOWN

Files:I:\Dropbox (Watco Companies, LLC)\Watco_Design\19_192_Rupert_ID_EIRR_Track_Expansion\Cad\Rail\Sheet\C-8004-Grad.dgn

PIPE DATA TABLE

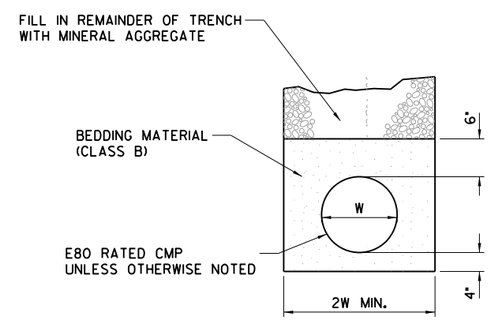
PROPOSED PIPE TABLE										
PIPE ID	STATION	PIPE DIA. (MATERIAL)	UPSTREAM INVERT			DOWNSTREAM INVERT			LENGTH (FT)	SLOPE (%)
			NORTHING	EASTING	ELEV	NORTHING	EASTING	ELEV		
CULVERT CP1	32+69.31	24" CMP	355733.19	1738672.62	4146.71	355754.52	1738650.53	4146.27	30.7	1.43%
CULVERT CP1 - EXT	32+69.32	24" CMP	355754.52	1738650.53	4146.27	355771.33	1738633.15	4145.93	24.2	1.43%
CULVERT CP2	57+85.94	24" CMP	353959.681	1736886.85	4147.18	353982.93	1736863.96	4147.18	32.6	0.00%
CULVERT CP2 - EXT	57+85.94	24" CMP	353982.93	1736863.96	4147.18	353993.49	1736853.51	4147.18	14.9	0.00%
CULVERT CP3	87+50.87	12" CMP	N/A	N/A	4149.21	351892.53	1734760.49	4149.21	N/A	0.00%
CULVERT CP3 - EXT	87+50.87	12" SMOOTH STEEL (SEE NOTE 1)	351888.61	1734764.49	4149.21	351944.88	1734706.91	4147.39	80.5	2.26%

NOTES:

1. 12" CULVERT SHALL BE STEEL SMOOTH PIPE ASTM A53 GRADE B (MINIMUM YIELD STRENGTH OF 35 KSI) WITH A 0.375-INCH THICKNESS. BITUMINOUS ASPHALT COATING PER MM-243 (MIN. 25 MILS DFT) OR ENGINEER APPROVED EQUAL. WELDS SHALL BE WATERTIGHT AND PER API STANDARD 1104.

LEGEND

- PROPOSED CONTOURS - 5' INTERVAL
- PROPOSED CONTOURS - 1' INTERVAL
- EXISTING CONTOURS - 5' INTERVAL
- EXISTING CONTOURS - 1' INTERVAL
- PROPOSED DITCH FLOW
- PROPOSED SURFACE FLOW
- EXISTING DITCH FLOW
- EXISTING SURFACE FLOW
- STAKING DATA POINT
- PROPOSED RETENTION POND



CULVERT BEDDING DETAIL

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS, SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC. AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
GRADING AND DRAINAGE DETAILS - SHEET 06 OF 07

CONTRACT NO.	19.192
DRAWING NO.	GR-05
REVISION	
SHEET NO.	064
SCALE	AS SHOWN

File: I:\Dropbox (Watco Companies, LLC)\Watco_Design\19_192_Rupert_ID_EIRR_Track_Expansion\Cad\Rail\Sheet\C-8005-Grad.dgn

Centerline Alignment:			Track 140		
Point Number	Station	Easting (X)	Northing (Y)	Elevation (Z)	Desription
101	0+00.00	1740982.40	358045.22	4155.92	POS
102	0+31.25	1740960.21	358023.21	4155.93	PI
103	1+00.00	1740907.21	357979.42	4155.97	TANGENT
104	1+61.85	1740859.53	357940.03	4156.00	PC
105	1+96.55	1740833.27	357917.32	4155.99	MID
106	2+31.25	1740808.07	357893.43	4155.96	PT
107	3+00.00	1740759.25	357845.02	4155.83	TANGENT
108	4+00.00	1740688.25	357774.59	4155.64	TANGENT
109	5+00.00	1740617.26	357704.17	4155.46	TANGENT
110	6+00.00	1740546.26	357633.75	4155.37	TANGENT
111	7+00.00	1740475.26	357563.33	4155.28	TANGENT
112	8+00.00	1740404.26	357492.91	4155.20	TANGENT
113	9+00.00	1740333.26	357422.49	4155.12	TANGENT
114	10+00.00	1740262.26	357352.07	4155.04	TANGENT
115	11+00.00	1740191.26	357281.65	4154.96	TANGENT
116	12+00.00	1740120.26	357211.23	4154.88	TANGENT
117	13+00.00	1740049.26	357140.81	4154.82	TANGENT
118	14+00.00	1739978.26	357070.39	4154.78	TANGENT
119	15+00.00	1739907.26	356999.96	4154.75	TANGENT
120	16+00.00	1739836.26	356929.54	4154.71	TANGENT
121	17+00.00	1739765.26	356859.12	4154.68	TANGENT
122	18+00.00	1739694.26	356788.70	4154.64	TANGENT
123	19+00.00	1739623.27	356718.28	4154.61	TANGENT
124	20+00.00	1739552.27	356647.86	4154.57	TANGENT
125	21+00.00	1739481.27	356577.44	4154.54	TANGENT
126	22+00.00	1739410.27	356507.02	4154.50	TANGENT
127	23+00.00	1739339.27	356436.60	4154.47	TANGENT
128	24+00.00	1739268.27	356366.18	4154.43	TANGENT
129	25+00.00	1739197.27	356295.76	4154.40	TANGENT
130	26+00.00	1739126.27	356225.34	4154.37	TANGENT
131	27+00.00	1739055.27	356154.91	4154.33	TANGENT
132	28+00.00	1738984.27	356084.49	4154.30	TANGENT
133	29+00.00	1738913.27	356014.07	4154.26	TANGENT
134	30+00.00	1738842.27	355943.65	4154.23	TANGENT
135	31+00.00	1738771.27	355873.23	4154.19	TANGENT
136	32+00.00	1738700.27	355802.81	4154.16	TANGENT
137	33+00.00	1738629.28	355732.39	4154.12	TANGENT
138	34+00.00	1738558.28	355661.97	4154.09	TANGENT
139	35+00.00	1738487.28	355591.55	4154.05	TANGENT
140	36+00.00	1738416.28	355521.13	4154.02	TANGENT
141	37+00.00	1738345.28	355450.71	4153.98	TANGENT
142	38+00.00	1738274.28	355380.28	4153.93	TANGENT
143	39+00.00	1738203.28	355309.86	4153.86	TANGENT
144	40+00.00	1738132.28	355239.44	4153.80	TANGENT
145	41+00.00	1738061.28	355169.02	4153.73	TANGENT
146	42+00.00	1737990.28	355098.60	4153.66	TANGENT
147	43+00.00	1737919.28	355028.18	4153.59	TANGENT
148	44+00.00	1737848.28	354957.76	4153.52	TANGENT
149	45+00.00	1737777.28	354887.34	4153.46	TANGENT
150	46+00.00	1737706.28	354816.92	4153.39	TANGENT
151	47+00.00	1737635.29	354746.50	4153.34	TANGENT
152	48+00.00	1737564.29	354676.08	4153.33	TANGENT
153	49+00.00	1737493.29	354605.65	4153.33	TANGENT
154	50+00.00	1737422.29	354535.23	4153.34	TANGENT
155	51+00.00	1737351.29	354464.81	4153.34	TANGENT
156	52+00.00	1737280.29	354394.39	4153.34	TANGENT
157	53+00.00	1737209.29	354323.97	4153.34	TANGENT
158	54+00.00	1737138.29	354253.55	4153.35	TANGENT
159	55+00.00	1737067.29	354183.13	4153.35	TANGENT
160	56+00.00	1736996.29	354112.71	4153.35	TANGENT
161	57+00.00	1736925.29	354042.29	4153.35	TANGENT
162	58+00.00	1736854.29	353971.87	4153.35	TANGENT
163	59+00.00	1736783.29	353901.45	4153.36	TANGENT
164	60+00.00	1736712.29	353831.03	4153.36	TANGENT
165	61+00.00	1736641.29	353760.60	4153.36	TANGENT
166	62+00.00	1736570.30	353690.18	4153.36	TANGENT
167	63+00.00	1736499.30	353619.76	4153.37	TANGENT
168	64+00.00	1736428.30	353549.34	4153.37	TANGENT
169	65+00.00	1736357.30	353478.92	4153.36	TANGENT
170	66+00.00	1736286.30	353408.50	4153.30	TANGENT
171	67+00.00	1736215.30	353338.08	4153.22	TANGENT
172	68+00.00	1736144.30	353267.66	4153.15	TANGENT
173	69+00.00	1736073.30	353197.24	4153.07	TANGENT
174	70+00.00	1736002.30	353126.82	4152.99	TANGENT
175	71+00.00	1735931.30	353056.40	4152.91	TANGENT
176	72+00.00	1735860.30	352985.97	4152.83	TANGENT
177	73+00.00	1735789.30	352915.55	4152.75	TANGENT
178	74+00.00	1735718.30	352845.13	4152.67	TANGENT
179	75+00.00	1735647.30	352774.71	4152.59	TANGENT
180	76+00.00	1735576.31	352704.29	4152.53	TANGENT
181	77+00.00	1735505.31	352633.87	4152.50	TANGENT
182	78+00.00	1735434.31	352563.45	4152.50	TANGENT
183	78+05.78	1735430.20	352559.38	4152.50	TANGENT
184	79+00.00	1735363.31	352493.03	4152.50	TANGENT
185	80+00.00	1735292.31	352422.61	4152.50	TANGENT
186	81+00.00	1735221.31	352352.19	4152.50	TANGENT
187	81+15.14	1735210.56	352341.53	4152.50	PC
188	81+15.90	1735210.02	352340.99	4152.50	MID
189	81+16.65	1735209.49	352340.46	4152.50	PT
190	82+00.00	1735150.30	352281.77	4152.50	TANGENT
191	83+00.00	1735079.30	352211.36	4152.50	TANGENT
192	84+00.00	1735008.29	352140.94	4152.50	TANGENT
193	85+00.00	1734937.28	352070.53	4152.50	TANGENT
194	86+00.00	1734866.28	352000.12	4152.50	TANGENT
195	87+00.00	1734795.27	351929.70	4152.50	TANGENT
196	88+00.00	1734724.27	351859.29	4152.50	TANGENT
197	89+00.00	1734653.26	351788.88	4152.50	TANGENT
198	90+00.00	1734582.25	351718.46	4152.50	TANGENT
199	91+00.00	1734511.25	351648.05	4152.50	TANGENT
200	92+00.00	1734440.24	351577.63	4152.50	TANGENT
201	93+00.00	1734369.23	351507.22	4152.50	TANGENT
202	94+00.00	1734298.23	351436.81	4152.50	TANGENT
203	95+00.00	1734227.22	351366.39	4152.50	TANGENT
204	96+00.00	1734156.21	351295.98	4152.50	TANGENT
205	97+00.00	1734085.21	351225.57	4152.50	TANGENT
206	98+00.00	1734014.20	351155.15	4152.44	TANGENT
207	99+00.00	1733943.19	351084.74	4152.31	TANGENT
208	100+00.00	1733872.19	351014.33	4152.17	TANGENT
209	101+00.00	1733801.18	350943.91	4152.03	TANGENT
210	102+00.00	1733730.18	350873.50	4151.88	TANGENT
211	103+00.00	1733659.17	350803.08	4151.74	TANGENT
212	104+00.00	1733588.16	350732.67	4151.61	TANGENT
213	105+00.00	1733517.16	350662.26	4151.56	TANGENT
214	106+00.00	1733446.15	350591.84	4151.53	TANGENT
215	107+00.00	1733375.14	350521.43	4151.50	TANGENT
216	107+85.21	1733314.64	350461.43	4151.48	EOT

Centerline Alignment:			Track 143		
Point Number	Station	Easting (X)	Northing (Y)	Elevation (Z)	Desription
4001	0+00.00	1735220.32	352388.74	4152.50	POS
4002	1+00.00	1735141.95	352326.63	4152.50	TANGENT
4003	1+33.71	1735115.53	352305.69	4152.49	PC
4004	1+65.51	1735091.14	352285.23	4152.44	MID
4005	1+97.31	1735067.92	352263.45	4152.36	PT
4006	2+00.00	1735066.01	352261.55	4152.35	TANGENT
4007	3+00.00	1734995.00	352191.14	4151.98	TANGENT
4008	4+00.00	1734924.00	352120.73	4151.65	TANGENT
4009	5+00.00	1734852.99	352050.31	4151.60	TANGENT
4010	6+00.00	1734781.98	351979.90	4151.60	TANGENT
4011	7+00.00	1734710.98	351909.49	4151.60	TANGENT
4012	8+00.00	1734639.97	351839.07	4151.60	TANGENT
4013	9+00.00	1734568.96	351768.66	4151.60	TANGENT
4014	10+00.00	1734497.96	351698.25	4151.60	TANGENT
4015	11+00.00	1734426.95	351627.83	4151.60	TANGENT
4016	12+00.00	1734355.94	351557.42	4151.60	TANGENT
4017	13+00.00	1734284.94	351487.00	4151.60	TANGENT
4018	14+00.00	1734213.93	351416.59	4151.60	TANGENT
4019	15+00.00	1734142.93	351346.18	4151.60	TANGENT
4020	16+00.00	1734071.92	351275.76	4151.60	TANGENT
4021	17+00.00	1734000.91	351205.35	4151.56	TANGENT
4022	18+00.00	1733929.91	351134.94	4151.45	TANGENT
4023	19+00.00	1733858.90	351064.52	4151.31	TANGENT
4024	20+00.00	1733787.89	350994.11	4151.16	TANGENT
4025	21+00.00	1733716.89	350923.69	4151.02	TANGENT
4026	22+00.00	1733645.88	350853.28	4150.88	TANGENT
4027	23+00.00	1733574.87	350782.87	4150.73	TANGENT
4028	24+00.00	1733503.87	350712.45	4150.61	TANGENT
4029	25+00.00	1733432.86	350642.04	4150.58	TANGENT
4030	26+00.00	1733361.85	350571.63	4150.57	TANGENT
4031	27+00.00	1733290.85	350501.21	4150.56	TANGENT
4032	28+00.00	1733219.84	350430.80	4150.56	TANGENT
4033	29+00.00	1733148.84	350360.38	4150.62	TANGENT
4034	30+00.00	1733077.83	350289.97	4150.69	TANGENT
4035	31+00.00	1733006.82	350219.56	4150.76	TANGENT
4036	31+85.96	1732945.79	350159.03	4150.77	TANGENT
4037	31+85.96	1732945.79	350159.03	4150.77	EOT

Centerline Alignment:			Track 142		
Point Number	Station	Easting (X)	Northing (Y)	Elevation (Z)	Desription
3001	0+00.00	1735326.44	352472.86	4152.50	POS
3002	1+00.00	1735248.07	352410.74	4152.50	TANGENT
3003	1+35.42	1735220.32	352388.74	4152.50	POS
3004	1+65.59	1735196.67	352370.00	4152.50	PI
3005	2+00.00	1735172.24	352345.77	4152.50	TANGENT
3006	2+43.27	1735141.51	352315.30	4152.50	LLT
3007	3+00.00	1735101.23	352275.36	4152.48	TANGENT
3008	4+00.00	1735030.22	352204.94	4152.30	TANGENT
3009	5+00.00	1734959.22	352134.53	4152.10	TANGENT
3010	6+00.00	1734888.21	352064.12	4151.93	TANGENT
3011	7+00.00	1734817.20	351993.70	4151.90	TANGENT
3012	8+00.00	1734746.20	351923.29	4151.90	TANGENT
3013	9+00.00	1734675.19	351852.87	4151.90	TANGENT
3014	10+00.00	1734604.18	351782.46	4151.90	TANGENT
3015	11+00.00	1734533.18	351712.05	4151.90	TANGENT
3016	12+00.00	1734462.17	351641.63	4151.90	TANGENT
3017	13+00.00	1734391.17	351571.22	4151.90	TANGENT
3018	14+00.00	1734320.16	351500.81	4151.90	TANGENT
3019	15+00.00	1734249.15	351430.39	4151.90	TANGENT
3020	16+00.00	1734178.15	351359.98	4151.90	TANGENT
3021	17+00.00	1734107.14	351289.57	4151.90	TANGENT
3022	18+00.00	1734036.13	351219.15	4151.88	TANGENT
3023	19+00.00	1733965.13	351148.74	4151.80	TANGENT
3024	20+00.00	1733894.12	351078.32	4151.66	TANGENT
3025	21+00.00	1733823.11	351007.91	4151.51	TANGENT
3026	22+00.00	1733752.11	350937.50	4151.37	TANGENT
3027	23+00.00	1733681.10	350867.08	4151.23	TANGENT
3028	24+00.00	1733610.10	350796.67	4151.08	TANGENT
3029	25+00.00	1733539.09	350726.26	4150.94	TANGENT
3030	26+00.00	1733468.08	350655.84	4150.88	TANGENT
3031	27+00.00	1733397.08	350585.43	4150.91	TANGENT
3032	28+00.00	1733326.07	350515.01	4150.93	TANGENT
3033	29+00.00	1733255.06	350444.60	4150.96	TANGENT
3034	30+00.00	1733184.06	350374.19	4150.98	TANGENT
3035	31+00.00	1733113.05	350303.77	4151.00	TANGENT
3036	31+30.89	1733091.12	350282.02	4151.00	EOT

Centerline Alignment:			Track 141		
Point Number	Station	Easting (X)	Northing (Y)	Elevation (Z)	Desription
2001	0+00.00	1735430.20	352559.38	4152.50	POS
2002	0+30.17	1735408.78	352538.13	4152.50	PI
2003	1+00.00	1735354.06	352494.75	4152.50	TANGENT
2004	1+35.24	1735326.44	352472.86	4152.50	POS
2005	1+65.41	1735302.80	352454.12	4152.50	PI
2006	2+00.00	1735278.24	352429.76	4152.50	TANGENT
2007	2+43.10	1735247.64	352399.42	4152.50	TANGENT
2008	3+00.00	1735207.23	352359.35	4152.49	TANGENT
2009	4+00.00	1735136.22	352288.94	4152.40	TANGENT
2010	5+00.00	1735065.22	352218.52	4152.30	TANGENT
2011	6+00.00	1734994.21	352148.11	4152.21	TANGENT
2012	7+00.00	1734923.21	352077.69	4152.20	TANGENT
2013	8+00.00	1734852.20	352007.28	4152.20	TANGENT
2014	9+00.00	1734781.19	351936.87	4152.20	TANGENT
2015	10+00.00	1734710.19	351866.45	4152.20	TANGENT
2016	11+00.00	1734639.18	351796.04	4152.20	TANGENT
2017	12+00.00	1734568.17	351725.63	4152.20	TANGENT
2018	13+00.00	1734497.17	351655.21	4152.20	TANGENT
2019	14+00.00	1734426.16	351584.80	4152.20	TANGENT
2020	15+00.00	1734355.15	351514.38	4152.20	TANGENT
2021	16+00.00	1734284.15	351443.97	4152.20	TANGENT
2022	17+00.00	1734213.14	351373.56	4152.20	TANGENT
2023	18+00.00	1734142.14	351303.14	4152.20	TANGENT
2024	19+00.00	1734071.13	351232.73	4152.20	TANGENT
2025	20+00.00	1734000.12	351162.32	4152.14	TANGENT
2026	21+00.00	1733929.12	351091.90	4152.01	TANGENT
2027	22+00.00	1733858.11	351021.49	4151.86	TANGENT
2028	23+00.00	1733787.10	350951.07	4151.72	TANGENT
2029	24+00.00	1733716.10	350880.66	4151.58	TANGENT
2030	25+00.00	1733645.09	350810.25	4151.43	TANGENT
2031	26+00.00	1733574.08	350739.83	4151.29	TANGENT
2032	27+00.00	1733503.08	350669.42	4151.17	TANGENT
2033	28+00.00	1733432.07	350599.01	4151.21	TANGENT
2034	29+00.00	1733361.06	350528.59	4151.28	TANGENT
2035	30+00.00	1733290.06	350458.18	4151.35	TANGENT
2036	31+00.00	1733219.05	350387.77	4151.37	TANGENT
2037	31+14.83	1733208.52	350377.32	4151.37	EOT

REV	DATE	DESCRIPTION	BY / SUB	APP

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DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

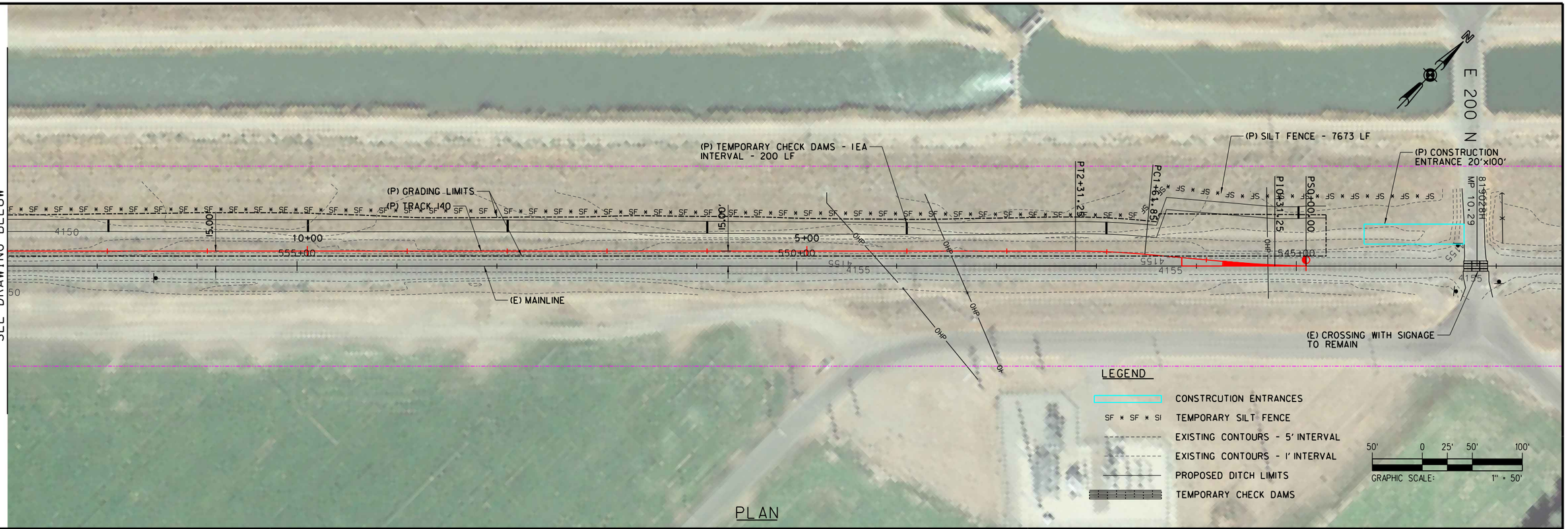
WATCO

EASTERN RAIL ROAD IDAHO

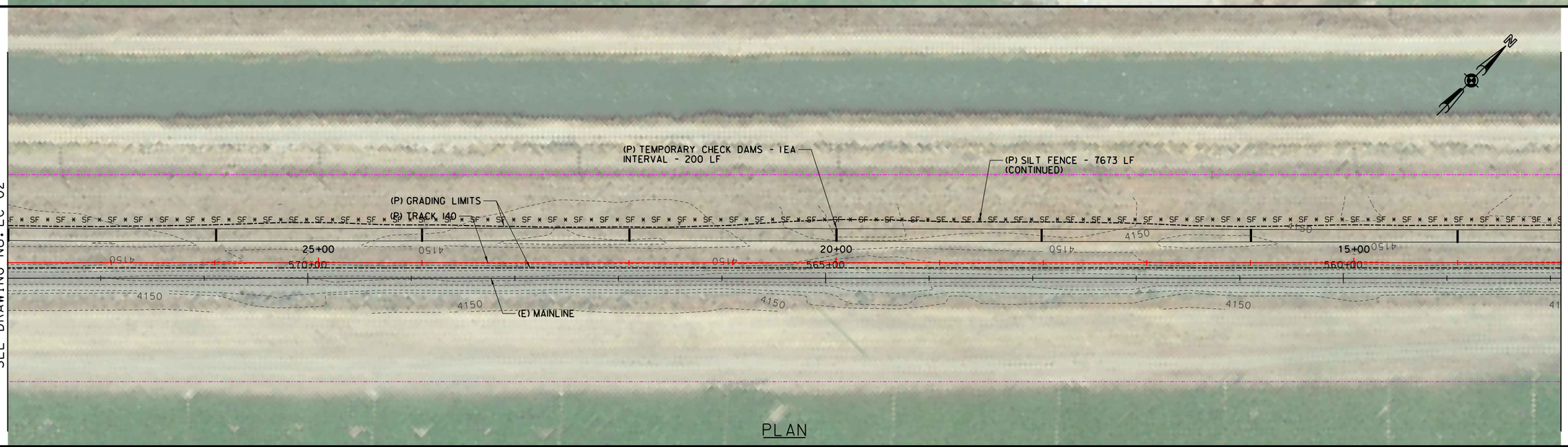
WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
STAKING DATA CHARTS DETAILS - SHEET 07 OF 07

CONTRACT NO. 19.192
DRAWING NO. GR-06
REVISION
SHEET NO. 065
SCALE AS SHOWN

File: I:\Dropbox (Watco Companies, LLC)\Watco_Design\19_192_Rupert_ID_EIRR_Track_Expansion\Cad\Rail\Sheet\C-8006-Staking.dgn



PLAN



PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC, AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
EROSION CONTROL PLAN - SHEET 01 OF 04
STA 0+00 TO STA 28+00.00

CONTRACT NO.	19.192
DRAWING NO.	EC-01
REVISION	
SHEET NO.	066
SCALE	AS SHOWN

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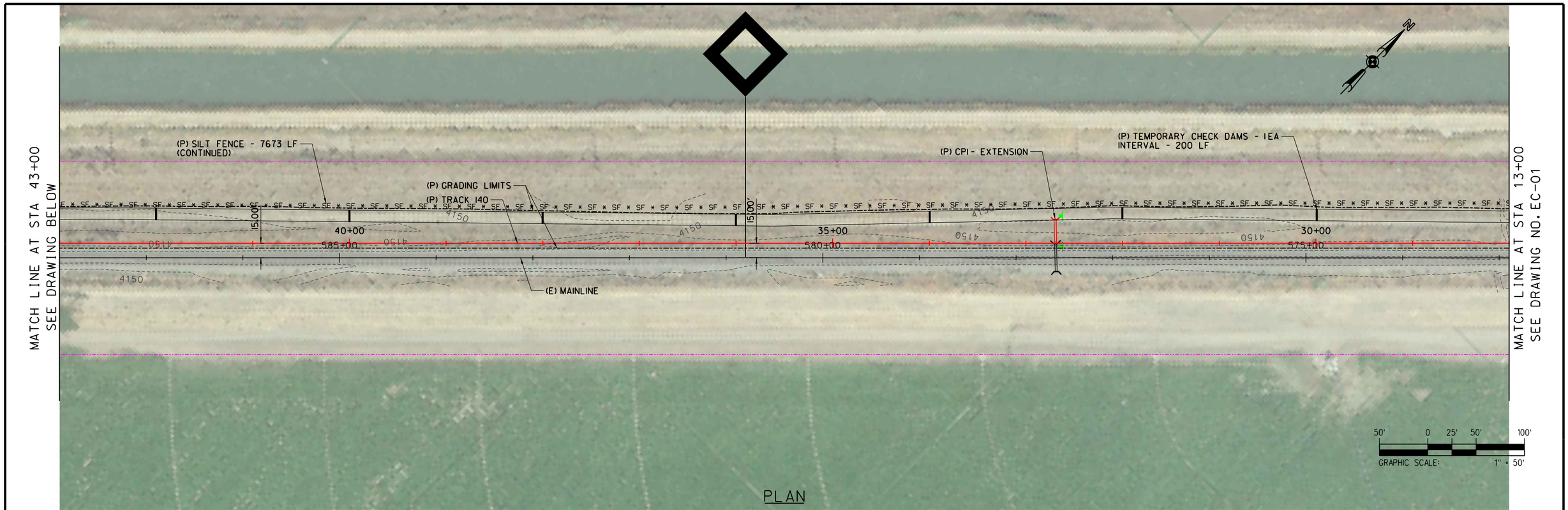
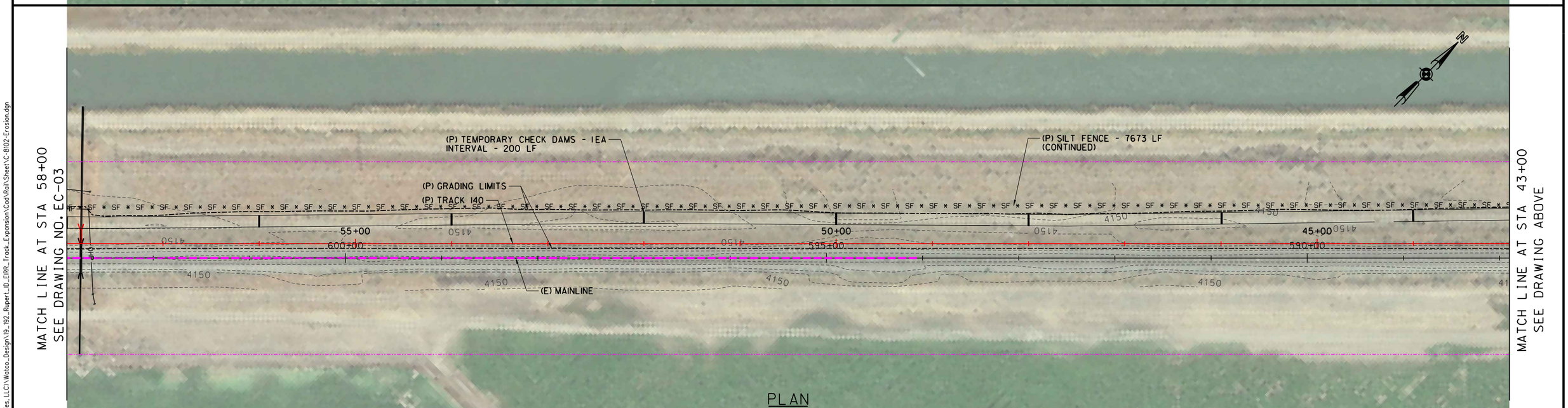


PLAN



PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC. AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
EROSION CONTROL PLAN - SHEET 02 OF 04
STA 28+00 TO STA 58+00.00

CONTRACT NO.	19.192
DRAWING NO.	EC-02
REVISION	
SHEET NO.	067
SCALE	AS SHOWN

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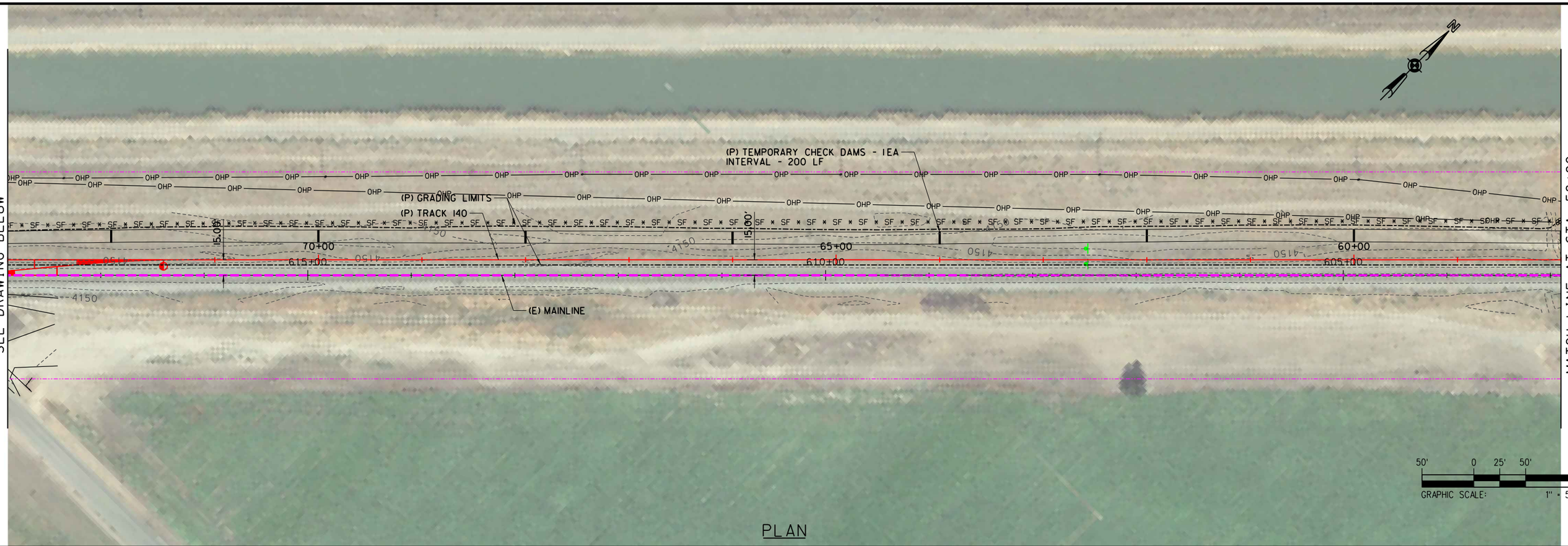

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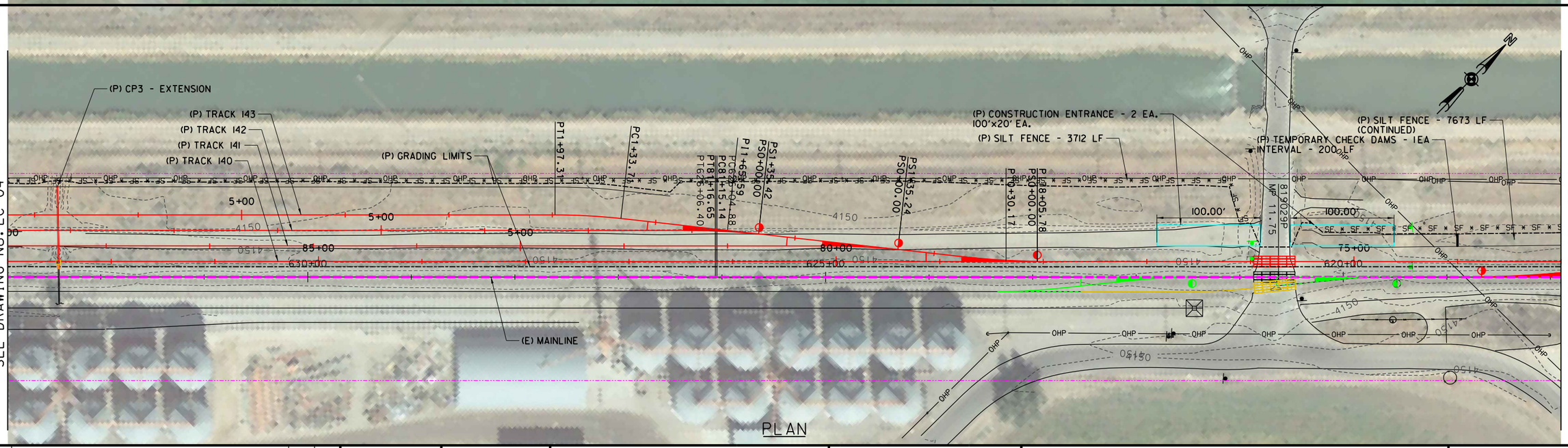

PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO COMPANIES, LLC. AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO COMPANIES, LLC.

DESIGNED BY	JRW
DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
EROSION CONTROL PLAN - SHEET 03 OF 04
STA 58+00 TO STA 88+00.00

CONTRACT NO.	19.192
DRAWING NO.	EC-03
REVISION	
SHEET NO.	068
SCALE	AS SHOWN

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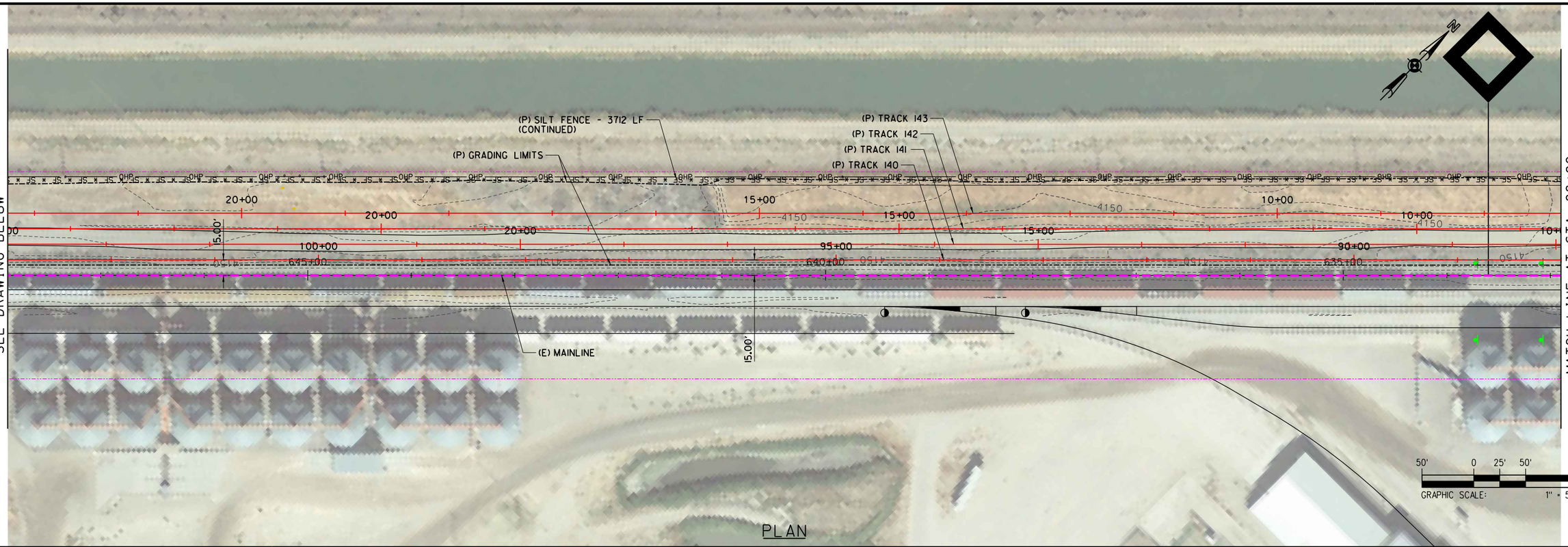

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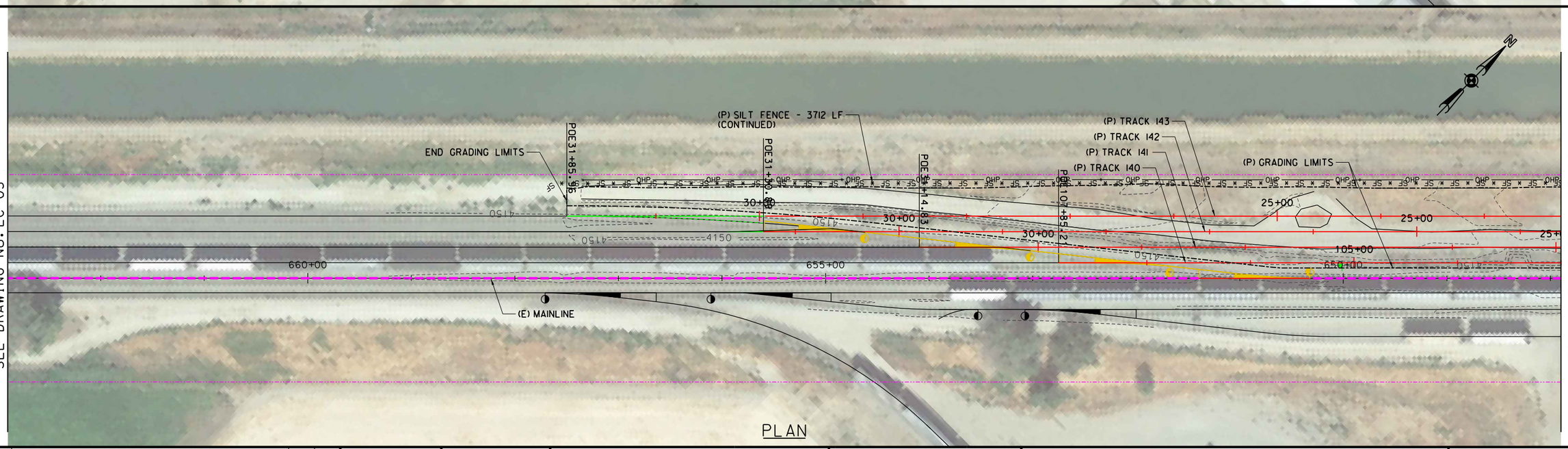

PLAN

REV	DATE	DESCRIPTION	BY / SUB	APP

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DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
DATE	2/22/2022

WATCO

EASTERN RAILROAD IDAHO

WATCO
RUPERT, IDAHO
EIRR TRACK EXPANSION
EROSION CONTROL PLAN - SHEET 04 OF 04
STA 88+00 TO STA 107+85.21

CONTRACT NO.	19.192
DRAWING NO.	EC-04
REVISION	
SHEET NO.	069
SCALE	AS SHOWN

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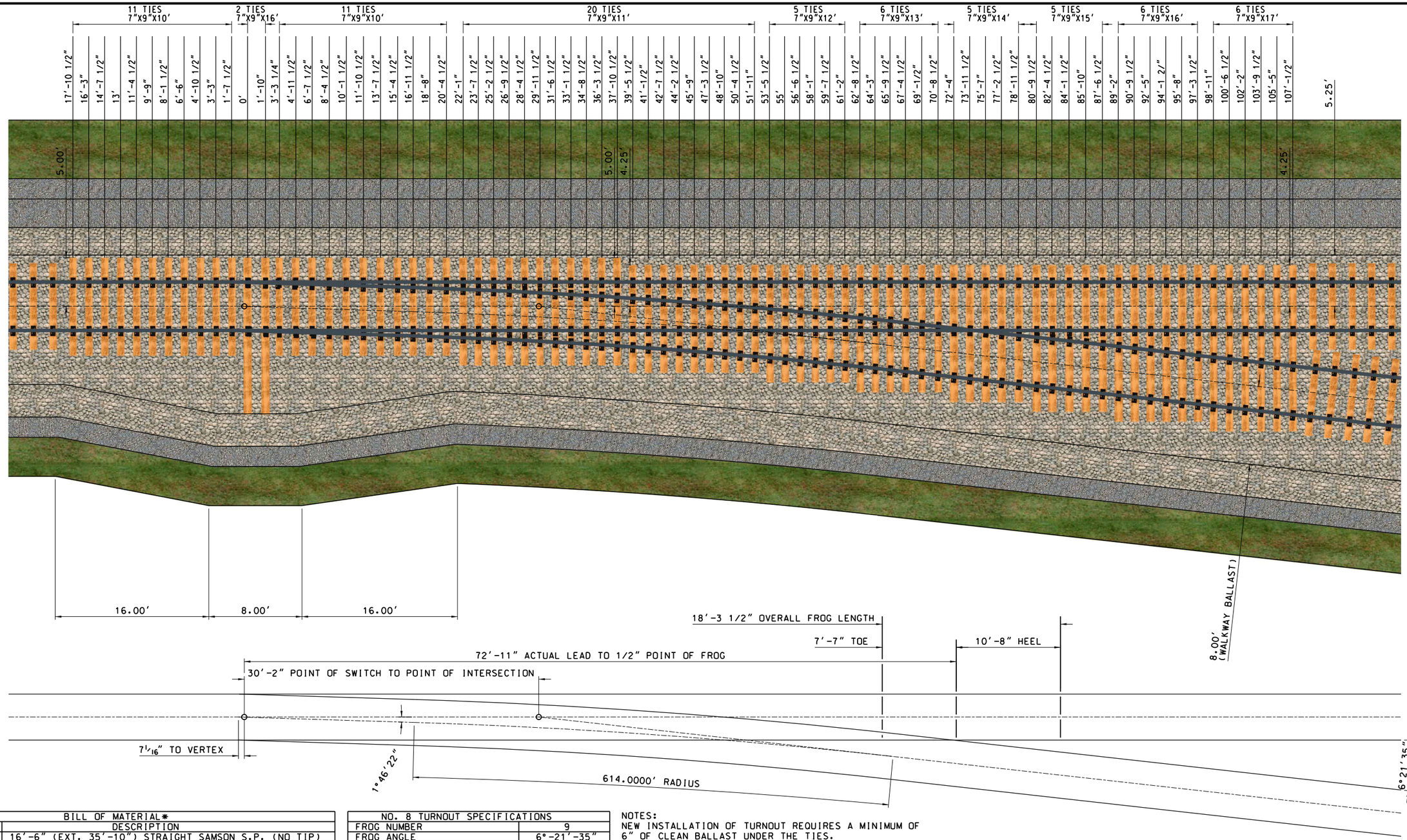

BILL OF MATERIAL*		
ITEM	QTY	DESCRIPTION
1	1	16'-6" (EXT. 35'-10") STRAIGHT SAMSON S.P. (NO TIP)
2	1	16'-6" (EXT. 35'-10") STRAIGHT SAMSON S.P. (WITH TIP)
3	1	18'-3 1/2" RBM FROG WITH PLATES
4	2	13'-0" BOLTLESS ADJUSTABLE GUARD BAR
5	1	36'-7" STRAIGHT SAMSON STOCK RAIL
6	1	36'-5" BENT/CURVED SAMSON STOCK RAIL

NO. 8 TURNOUT SPECIFICATIONS	
FROG NUMBER	9
FROG ANGLE	6°-21'-35"
FROG LENGTH	18'-3 1/2"
LENGTH OF SWITCH POINT	16'-6"
ENTRY ANGLE	1°-46'-22"
VERTEX DISTANCE	7 1/16"
ACTUAL LEAD	72'-11"
CENTERLINE RADIUS	614.00'
DEGREE OF CURVE	9°20'31"

NOTES:
NEW INSTALLATION OF TURNOUT REQUIRES A MINIMUM OF 6" OF CLEAN BALLAST UNDER THE TIES.

ITEM 4 NOT REQUIRED WITH SMSG FROGS

IN CWR APPLICATIONS, ANCHOR EVERY TIE FOR 200' IN EACH DIRECTION.

* BILL OF MATERIAL SHOWN DOES NOT INCLUDE TIES, PLATES, RODS, AND OTM.

REV	DATE	BY	SUB

OFFICE OF WATCO ENGINEERING - DESIGN

APPROVED BY:

VICE PRESIDENT - ENGINEERING DESIGN

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO.

ANY DEVIATIONS FROM THE STANDARDS DEPICTED HEREIN SHALL REQUIRE APPROVAL FROM THE OFFICE OF WATCO ENGINEERING - DESIGN.

DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
ADOPTED	10/22/2020
REVISED	2/17/2021

WATCO

WATCO
ENGINEERING STANDARDS
TYPICAL NO. 9 TURNOUT
LIGHT TRAFFIC LINES & INDUSTRY TRACKS

SECTION NO.	5000
STANDARD DRAWING	ENG.5000.106
REVISION	REV-01
SHEET NO.	01 OF 01
SCALE	NTS

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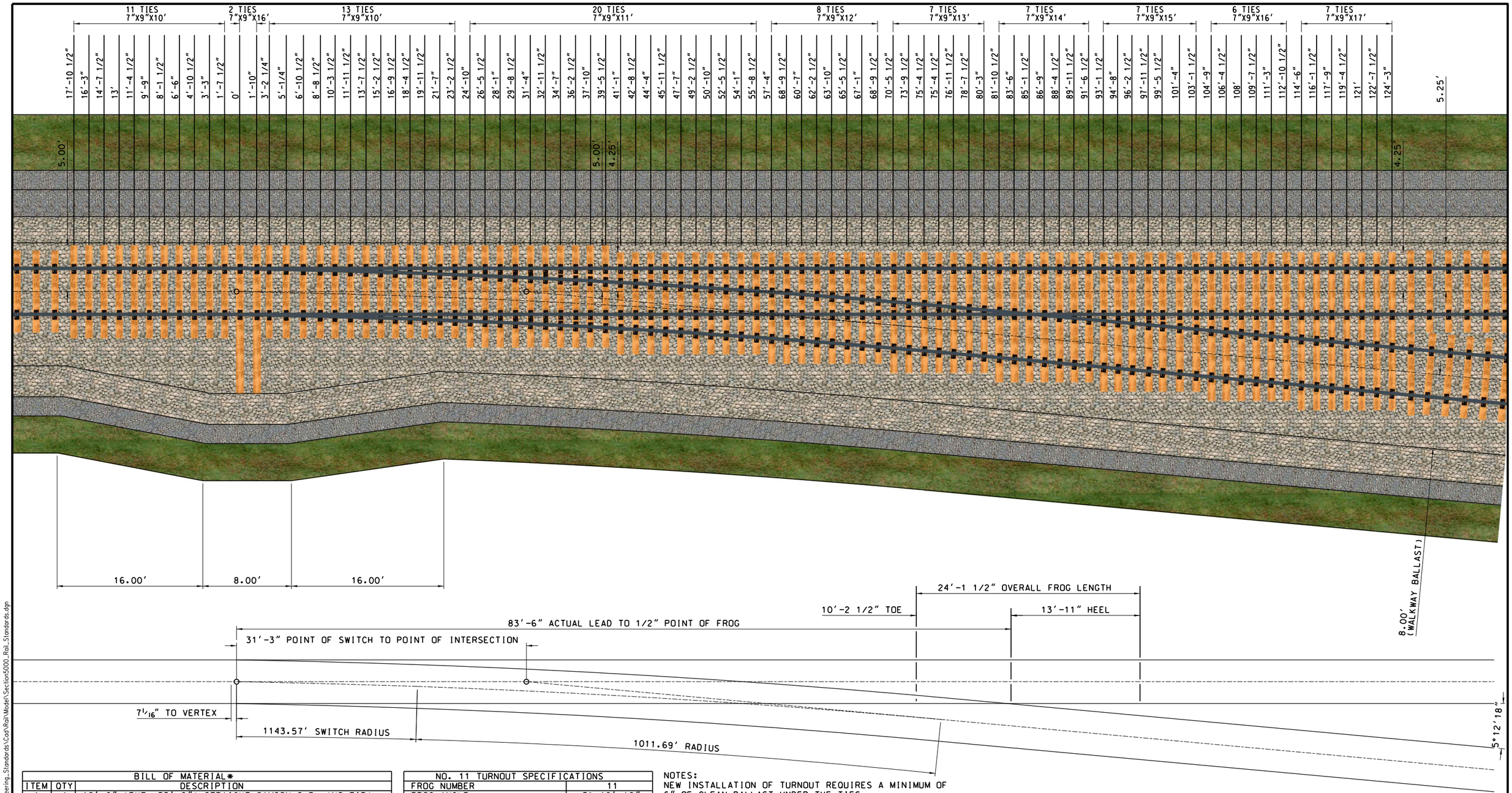

BILL OF MATERIAL*		
ITEM	QTY	DESCRIPTION
1	1	19'-6" (EXT. 35'-9") STRAIGHT SAMSON S.P. (NO TIP)
2	1	19'-6" (EXT. 35'-9") CURVED SAMSON S.P. (WITH TIP)
3	1	24'-1 1/2" RBM FROG WITH PLATES
4	2	19'-6" BOLTLESS ADJUSTABLE GUARD BAR
5	1	37'-11" STRAIGHT SAMSON STOCK RAIL
6	1	36'-2" BENT/CURVED SAMSON STOCK RAIL

NO. 11 TURNOUT SPECIFICATIONS	
FROG NUMBER	11
FROG ANGLE	5°-12'-18"
FROG LENGTH	24'-1 1/2"
LENGTH OF SWITCH POINT	19'-6"
SWITCH ANGLE	1°-00'-40"
VERTEX DISTANCE	7 1/16"
ACTUAL LEAD	83'-6"
CENTERLINE RADIUS	1011.69'
DEGREE OF CURVE	5°40'44"

NOTES:
NEW INSTALLATION OF TURNOUT REQUIRES A MINIMUM OF 6" OF CLEAN BALLAST UNDER THE TIES.

ITEM 4 REQUIRED FOR RBM AND SPRING FROGS

IN CWR APPLICATIONS, ANCHOR EVERY TIE FOR 200' IN EACH DIRECTION.

* BILL OF MATERIAL SHOWN DOES NOT INCLUDE TIES, PLATES, RODS, AND OTM.

REV	DATE	BY	SUB

OFFICE OF WATCO ENGINEERING - DESIGN

APPROVED BY:

VICE PRESIDENT - ENGINEERING DESIGN

INFORMATION CONFIDENTIALITY: ALL PLANS, DRAWINGS SPECIFICATIONS, AND/OR INFORMATION FURNISHED HEREWITH SHALL REMAIN THE PROPERTY OF WATCO AND SHALL BE HELD CONFIDENTIAL AND SHALL NOT BE USED FOR ANY PURPOSE NOT PROVIDED FOR IN AGREEMENTS WITH WATCO.

ANY DEVIATIONS FROM THE STANDARDS DEPICTED HEREIN SHALL REQUIRE APPROVAL FROM THE OFFICE OF WATCO ENGINEERING - DESIGN.

DRAWN BY	JRW
CHECKED BY	DRW
APPROVED BY	JLW
ADOPTED	10/22/2020
REVISED	2/17/2021

WATCO

WATCO
ENGINEERING STANDARDS
TYPICAL NO. 11 TURNOUT
HEAVY TRAFFIC LINES & INDUSTRY LEADS
MANUAL TURNOUT

SECTION NO.	5000
STANDARD DRAWING	ENG.5000.107
REVISION	REV-01
SHEET NO.	01 OF 01
SCALE	NTS

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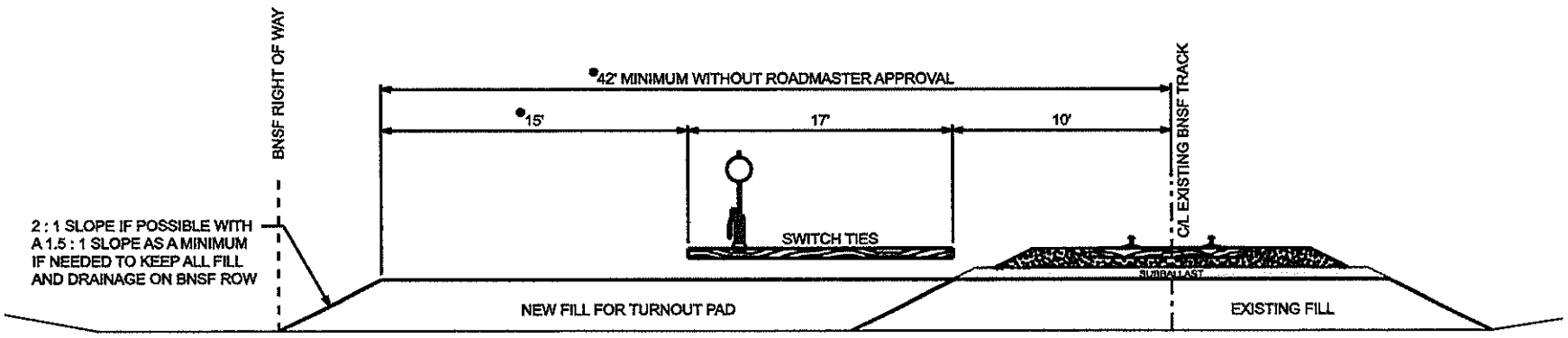
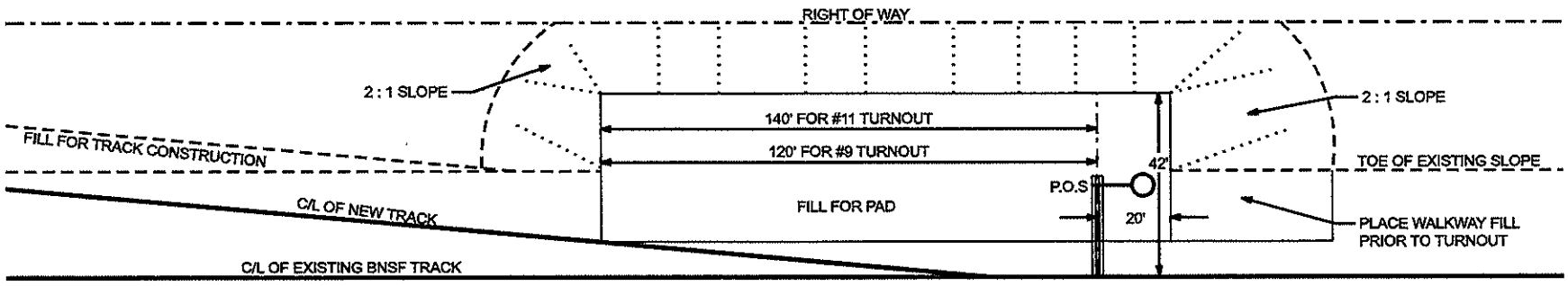




NOTE: CONSTRUCTION OF INDUSTRY TURNOUT PAD IS FOR THE PLACEMENT OF THE PROPOSED PACKAGE TURNOUT FOR ASSEMBLY AND INSTALLATION. TURNOUT PAD IS ALSO TO PROVIDE FOUNDATION FOR ANY REQUIRED SIGNAL EQUIPMENT

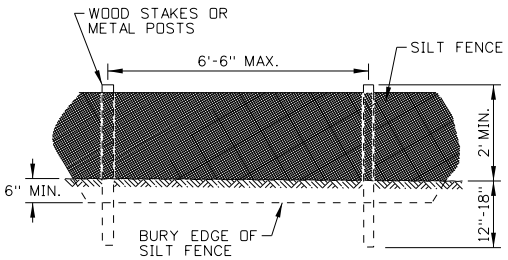
TURNOUT PAD FILL MATERIAL SHALL BE PLACED BY THE INDUSTRY AS PART OF THE GRADING FOR THE NEW INDUSTRY SPUR. PAD IS TO BE CONSTRUCTED USING STANDARD COMPACTION AND FILL PLACEMENT PROCESSES AS PER THE BNSF INDUSTRY TRACK GUIDELINES. TOP OF PAD IS TO BE 2' BELOW THE EXISTING TOP OF RAIL.

CONTRACTOR SHALL COORDINATE WITH THE ROADMASTER AND ASSOCIATED PROJECT ENGINEER FOR ANY DEVIATION OF FILL AND FOR FLAGMAN PROTECTION.

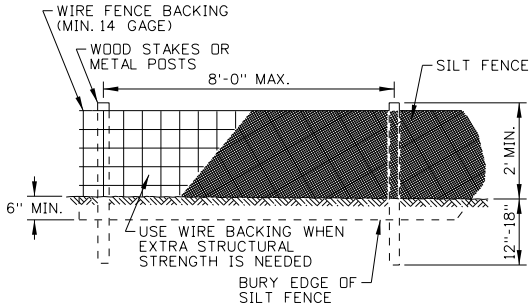
•NOTE: IF RIGHT OF WAY IS OVER 50' FROM C/L OF EXISTING BNSF TRACK THIS DISTANCE SHALL BE INCREASED TO 25' AND 50' RESPECTIVELY

BNSF ENGINEERING SERVICES			
APPROVED:	APPROVED:	DATE: 09/23/05	BNSF STANDARD TURNOUT PAD
DATED:	DATED:	SCALE: ." = none	SYSTEM WIDE
APPROVED:	APPROVED:	LS/mp : N/A	NOT TO SCALE
DATED:	DATED:	DRAWN BY: MSA	REFERENCE ONLY
APPROVED:	APPROVED:	FILE: I:\fieldeng\instructions\TurnoutPad.dgn	
DATED:	DATED:		

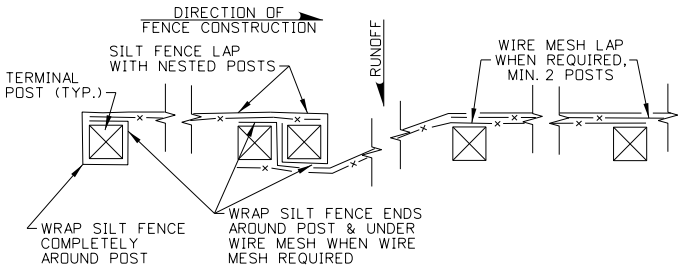
BNSF RAILWAY



SILT FENCE (NO WIRE BACKING)



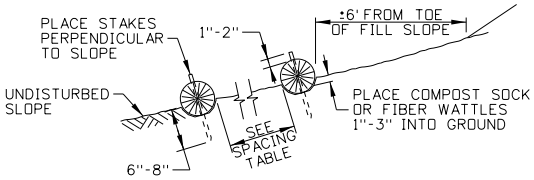
SILT FENCE (WIRE BACKING)



SILT FENCE LAP DETAIL

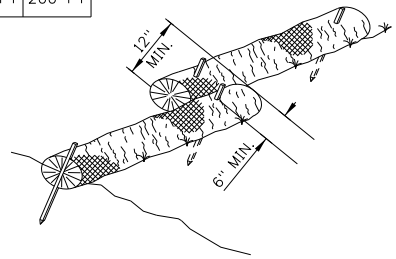
FIBER WATTLE & COMPOST SOCK SPACING TABLE				
SLOPE	WATTLE SIZE			
	6"	9"	12"	20"
1:1	5 FT	10 FT	15 FT	20 FT
2:1	10 FT	20 FT	30 FT	40 FT
3:1	15 FT	30 FT	45 FT	60 FT
4:1 OR FLATTER	20 FT	40 FT	60 FT	80 FT

SILT FENCE SPACING TABLE			
SLOPE	SOIL TYPE		
	SILTY	CLAYS	SANDY
1:1	50 FT	75 FT	100 FT
2:1	75 FT	100 FT	125 FT
4:1	100 FT	125 FT	150 FT
10:1 OR FLATTER	125 FT	150 FT	200 FT

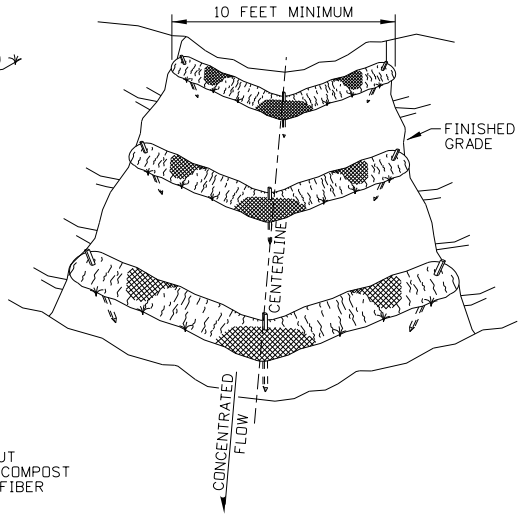


COMPOST SOCK AND FIBER WATTLE

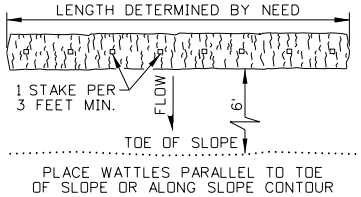
SIDE VIEW



COMPOST SOCK AND FIBER WATTLE OVERLAPPING DETAIL

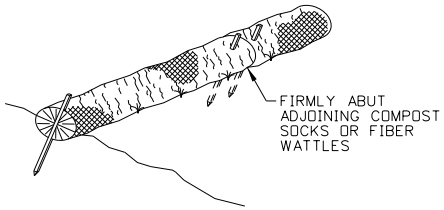


COMPOST SOCK AND FIBER WATTLE TEMPORARY CHECK DAM DETAIL



COMPOST SOCK AND FIBER WATTLE

PLAN VIEW



COMPOST SOCK AND FIBER WATTLE ABUTTING DETAIL

NOTES

1. SEE THE GENERAL NOTES FOR TEMPORARY EROSION CONTROL STANDARD DRAWINGS ON 212-1.
2. INSTALL TEMPORARY SEDIMENT CONTROL BARRIERS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS. THE DIMENSIONS SHOWN ARE GENERAL GUIDELINES.
3. PLACE SEDIMENT BARRIERS TO FOLLOW THE SLOPE CONTOURS. METAL POSTS OR WOOD STAKES MAY BE USED.
4. ENSURE THAT RUNOFF PASSES THROUGH THE SILT FENCE AND NOT AROUND THE FENCE.
5. ENSURE THAT SILT FENCE MATERIAL IS IN ACCORDANCE WITH 718.09 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
6. GROUND SILT FENCES WITH WIRE MESH IN ACCORDANCE WITH THE GROUNDING DETAIL SHOWN ON STANDARD DRAWING 610-1.
7. THE NEED FOR TEMPORARY SEDIMENT CONTROL DEVICES ARE DETERMINED BY SITE DESIGN. SPACE SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES IN ACCORDANCE WITH THE SILT FENCE SPACING TABLE AND FIBER WATTLE & COMPOST SOCK SPACING TABLE.
8. ON SLOPES, TURN THE ENDS OF EACH ROW OF COMPOST SOCKS AND FIBER WATTLES UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE SOCK OR WATTLE.
9. EXTEND OR JOIN SILT FENCE USING SILT FENCE LAP WITH NESTED POSTS.
10. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF SILT FENCES, COMPOST SOCKS, AND FIBER WATTLES WHEN ACCUMULATION HAS REACHED ½ OF THE EFFECTIVE HEIGHT OF THE BARRIER.
11. NOT TO SCALE.

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY: J. CALEB LAKEY DATE ORIGINAL SIGNED: FEBRUARY 1, 2013 STATE OF IDAHO 15116 J. CALEB LAKEY

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	
1	09-93	MSM	6	01-13	RDL				
2	12-94	MSM							
3	06-96	GFK							
4	10-10	KEH							
5	10-11	KEH							

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 212-3_0213.dgn

DRAWING DATE: APRIL, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER
ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING

TEMPORARY EROSION AND SEDIMENT CONTROL

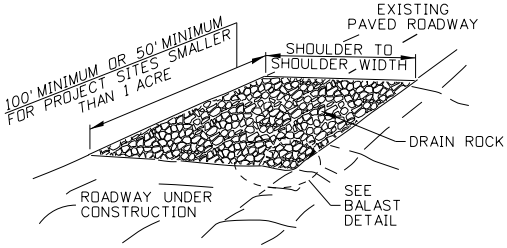
SILT FENCE, FIBER WATTLE, AND COMPOST SOCK

REQUIRES STD. DWG. 212-1

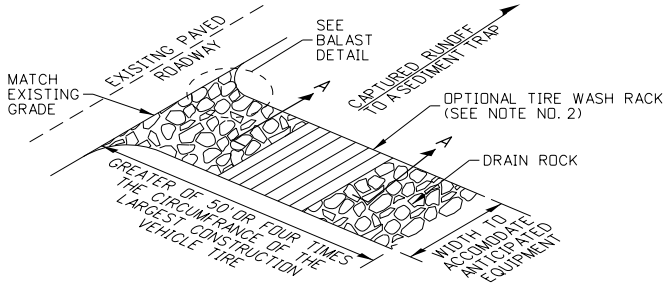
English

STANDARD DRAWING NO. 212-3

SHEET 1 OF 1

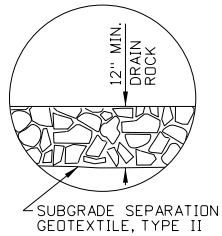


IN-LINE WITH HIGHWAY

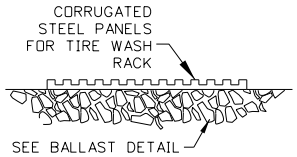


PERPENDICULAR TO HIGHWAY

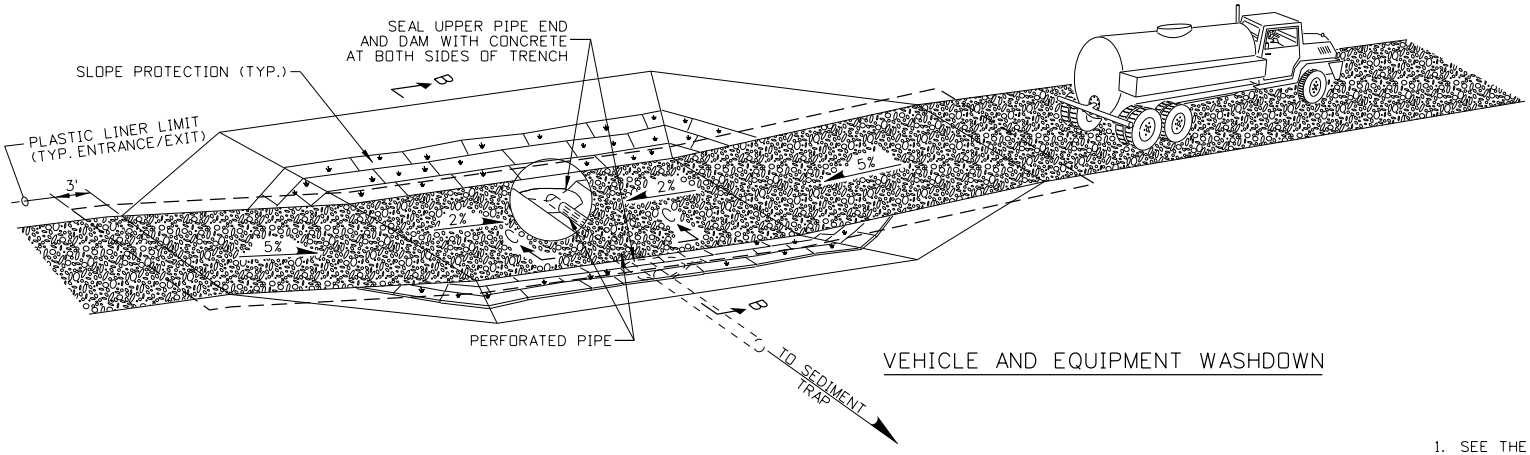
STABILIZED CONSTRUCTION ENTRANCE



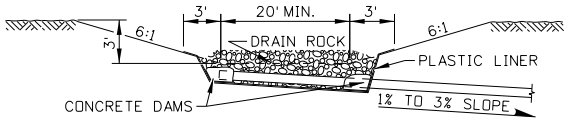
BALLAST DETAIL



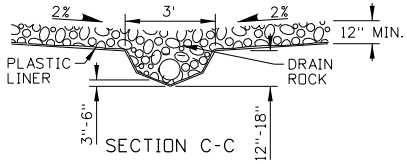
SECTION A-A



VEHICLE AND EQUIPMENT WASHDOWN



SECTION B-B



SECTION C-C

NOTES

1. SEE THE GENERAL NOTES FOR TEMPORARY EROSION CONTROL STANDARD DRAWINGS ON 212-1.
2. DRAWING NOT TO SCALE.

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

PROFESSIONAL ENGINEER LICENSED ORIGINAL SIGNED BY RYAN D. LANCASTER DATE ORIGINAL SIGNED DECEMBER 27, 2016 STATE OF IDAHO 13683 RYAN D. LANCASTER

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: 212-6_1216.dgn

DRAWING DATE: NOVEMBER, 2016

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: TED MASON

DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING

TEMPORARY EROSION AND SEDIMENT CONTROL

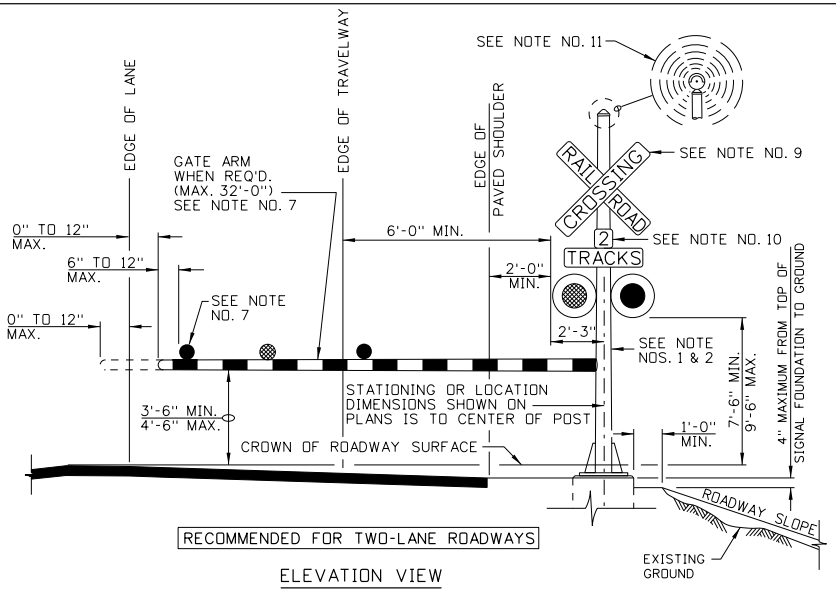
STABILIZED CONSTRUCTION ENTRANCE AND VEHICLE WASHDOWN

REQUIRES STD. DWG. 212-1

English

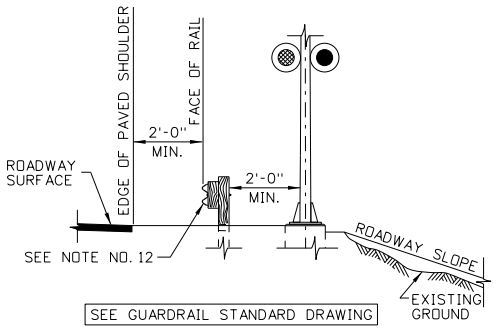
STANDARD DRAWING NO. 212-6

SHEET 1 OF 1



RECOMMENDED FOR TWO-LANE ROADWAYS

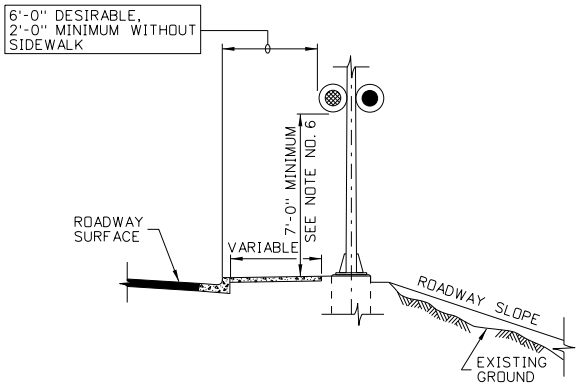
ELEVATION VIEW



SEE GUARDRAIL STANDARD DRAWING

TYPICAL SECTION

(WITH GUARDRAIL)



TYPICAL CURB & GUTTER SECTION

(WITH OR WITHOUT SIDEWALK)

NOTES

1. LAYOUT OF HIGHWAY-RAILROAD GRADE CROSSING SIGNAL SHALL BE CONSISTENT WITH THE STANDARDS OF THE RAILROAD COMPANY AND PART 8 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (AS ADOPTED BY THE STATE). THE RAILROAD COMPANY WILL DESIGN THE STRUCTURE AND OTHER COMPONENTS OF THE RAILROAD CROSSING SIGNALS.
2. POST LOCATION SHALL BE AS SHOWN ON THE PLANS. ALL PARTS OF THE RAILROAD CROSSING SIGNAL, INCLUDING GATE ARM IN THE UPRIGHT POSITION, SHALL BE A MINIMUM OF 10 FEET, MEASURED PERPENDICULAR FROM THE NEAREST RAIL OF THE RAILROAD TRACKS.
3. TOP OF THE SIGNAL FOUNDATION SHALL BE FLUSH WITH TOP OF CURB OR TOP OF SIDEWALK. THE GROUND SURFACE SHALL BE GRADED TO WITHIN 4 INCHES BELOW THE TOP OF THE FOUNDATION TO A MINIMUM DISTANCE OF 1 FOOT BEYOND THE SIGNAL FOUNDATION.
4. A FLASHING-LIGHT SIGNAL CONSISTS OF TWO LIGHTS HAVING 12-INCH LENS WITH RED LIGHT EMITTING DIODES (LED) MOUNTED IN A HORIZONTAL LINE THAT FLASH ALTERNATELY WHEN ACTIVATED. THE FLASHING RATE IS 35 TO 65 FLASHES PER MINUTE.
5. NUMBER OF FLASHING-LIGHT SIGNALS SHALL BE AS SHOWN ON THE PLANS. FLASHING-LIGHT SIGNALS SHALL BE MOUNTED BACK TO BACK ON THE POST. OTHER FLASHING-LIGHT SIGNALS, IF NECESSARY, SHALL BE PLACED FOR THE BEST VISIBILITY TO OTHER APPROACHING ROADWAY OR PEDESTRIAN TRAFFIC.
6. WHERE THERE IS SIDEWALK, THE FLASHING-LIGHT SIGNALS ON THE POST SHALL BE A MINIMUM OF 7 FEET ABOVE THE TOP OF SIDEWALK.
7. WHEN GATE ARMS ARE USED, LENGTHS SHALL BE AS SHOWN ON THE PLANS. THE TIP OF A GATE ARM IN THE DOWN POSITION SHALL BE WITHIN 1 FOOT EITHER SIDE OF THE EDGE OF LANE AND A MINIMUM OF 8 FEET MEASURED PERPENDICULAR FROM THE NEAREST RAIL OF THE RAILROAD TRACK. GATE ARMS LONGER THAN 28 FEET REQUIRE APPROVAL FROM THE RAILROAD COMPANY. THE GATE ARM SHALL BE FULLY RETRO REFLECTORIZED ON BOTH SIDES WITH VERTICAL STRIPES ALTERNATELY COLORED RED AND WHITE AT 16-INCH INTERVALS MEASURED HORIZONTALLY AND HAVE AT LEAST THREE RED LIGHT EMITTING DIODES (LED) ON THE TOP OF THE GATE ARM. THE GATE ARM LIGHTS, WHEN ACTIVATED, SHALL FLASH ALTERNATELY IN UNISON WITH THE FLASHING-LIGHT SIGNALS EXCEPT FOR THE LIGHT NEAREST THE TIP OF THE GATE ARM WHICH SHALL BE ILLUMINATED CONTINUOUSLY.
8. AAR/DOT IDENTIFICATION TAG SHALL BE ATTACHED TO POST IMMEDIATELY BELOW THE FLASHING-LIGHT SIGNAL OR ON THE OUTSIDE OF THE SIGNAL HOUSE.
9. CROSS BUCK (R15-1) SIGNS SHALL BE MOUNTED BACK TO BACK ON THE POST.
10. SUPPLEMENTAL NUMBER OF TRACKS (R15-2) SIGNS SHALL BE MOUNTED BACK TO BACK ON THE POST AT A POSITION BETWEEN THE CROSS BUCK SIGN AND THE FLASHING-LIGHT SIGNAL WHEN THERE ARE TWO OR MORE RAILROAD TRACKS. THIS SIGN IS OPTIONAL WHEN GATE ARMS ARE USED.
11. BELLS OR OTHER AUDIBLE WARNING DEVICES MAY BE INCLUDED WHICH WILL OPERATE IN CONJUNCTION WITH THE FLASHING-LIGHT SIGNALS.
12. THE NEED FOR GUARDRAIL SHALL NOT BE BASED SOLELY UPON THE ROADSIDE OBSTACLE OF A RAILROAD CROSSING SIGNAL UNLESS REQUESTED BY THE RAILROAD COMPANY.
13. NOT TO SCALE.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DESIGNED
DESIGN CHECKED
DETAILED
DRAWING CHECKED

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME
DRAWING DATE:

IDAHO TRANSPORTATION DEPARTMENT

PROJECT NO.

STANDARD DETAIL R-1-A

HIGHWAY - RAILROAD GRADE CROSSING SIGNAL TYPE 1

English
COUNTY
KEY NUMBER
SHEET 1 OF 1

NOT APPROVED
PRELIMINARY
FOR CONSTRUCTION

Magic Valley Rail Safety and Capacity Expansion: A Rural Short Line Project
Idaho Transportation Department
Schedule

		2021												2022											
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1. Gular Yard	Design/Engineering																								
	Permitting								Complete																
	Procurement/Mob.																								
	Construction																								
2. Unit Train Side Track	Design/Engineering																								
	Permitting								Complete																
	Procurement/Mob.																								
	Construction																								
3. Main Line Rail Relay	Design/Engineering																								
	Permitting								Complete																
	Procurement/Mob.																								
	Construction																								
3. State Hwy 24/8th Street Crossing	Design/Engineering																								
	Permitting								Complete																
	Procurement/Mob.																								
	Construction																								
4. Kelley Bean Track & Crossing Removal	Design/Engineering																								
	Permitting								Complete																
	Procurement/Mob.																								
	Construction																								
5. 100 North Crossing	Design/Engineering																								
	Permitting								Complete																
	Procurement/Mob.																								
	Construction																								
Grant Management and Administration																									
Funds Obligation Deadline																									

- Construction Season
- Procurement/Mobilization
- Permitting
- Design/Engineering
- Construction

REV	DATE	DESCRIPTION	BY / SUB	APP

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DESIGNED BY JRW
DRAWN BY JRW
CHECKED BY DRW
APPROVED BY JLW
DATE 2/22/2022

WATCO

EASTERN IDAHO RAILROAD

WATCO
RUPERT, ID
EIRR TRACK EXPANSION
CONSTRUCTION SCHEDULE
SHEET 01 OF 01

CONTRACT NO. 19.192
DRAWING NO. SCHEDULE
REVISION
SHEET NO.
SCALE NONE

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Time: 1:57:05 PM
Date: 02\22\2022