



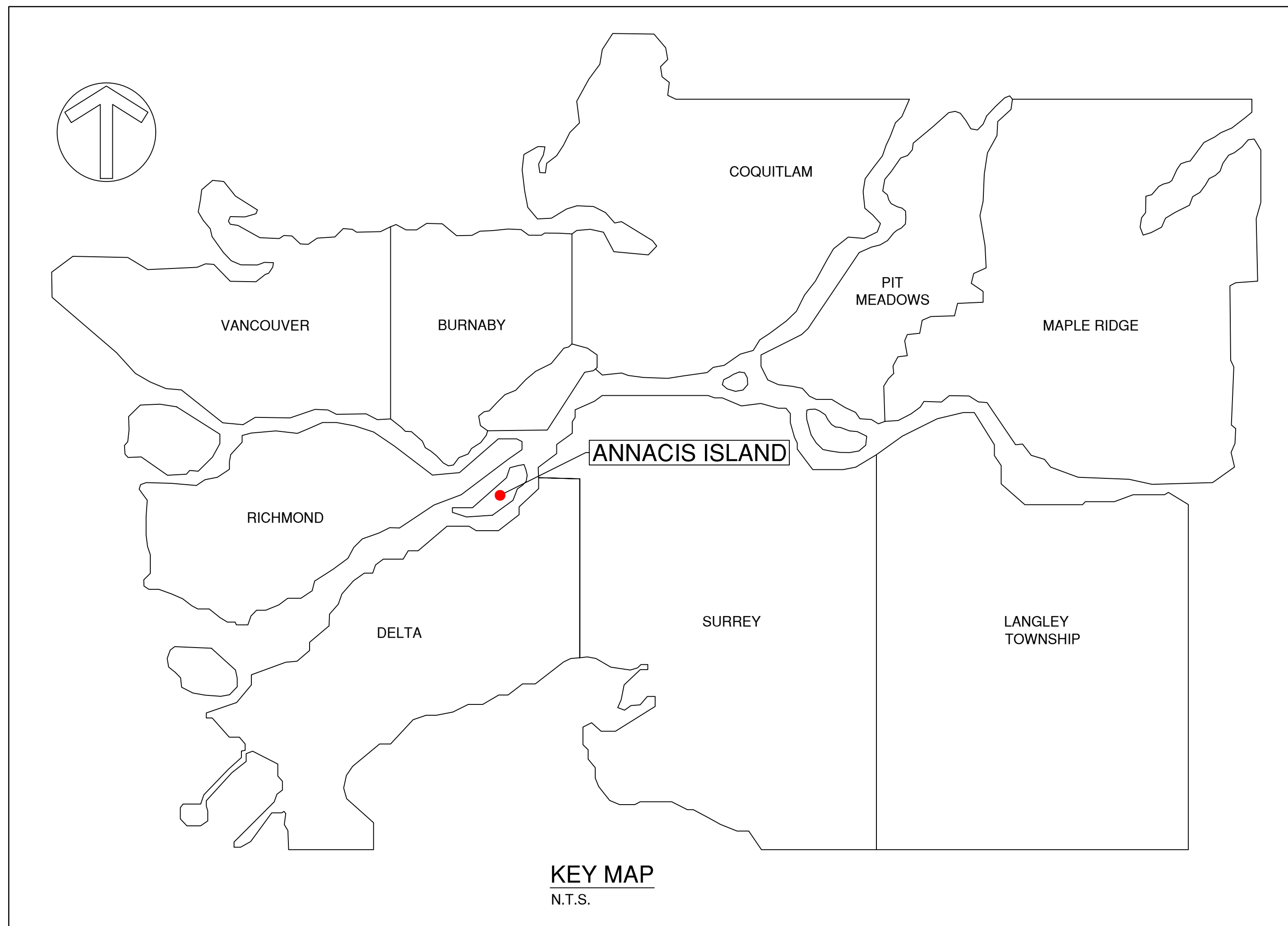
# ANNACIS AUTO TERMINAL OPTIMIZATION PROJECT RAIL EXPANSION

FINAL SUBMISSION  
ISSUED FOR PDR



PROJECT No. 60661425

SHEET No.	DRAWING INDEX TITLE
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365-037-RL-002	OVERALL SITE PLAN
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Project Management Initials: \_\_\_\_\_ Designer: \_\_\_\_\_ Checked: \_\_\_\_\_ Approved: \_\_\_\_\_

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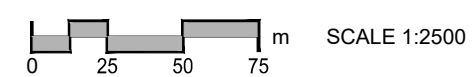


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**KEY PLAN**



**GENERAL NOTES:**

- THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.
- UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY OTHERS. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- ENVIRONMENTAL PROTECTION MEASURES AND PROCEDURES SHALL BE AS PER CN'S ENVIRONMENTAL GUIDELINES. ALSO, THE FOLLOWING MITIGATIVE MEASURES WILL BE IMPLEMENTED TO PROTECT WATER QUALITY AND FISH HABITAT WITHIN THE CORRIDOR:  
  
CONTRACTOR SHALL SECURE THE PROJECT SITE AREA TO PREVENT ACCESS TO NON-CONSTRUCTION PERSONNEL. THIS WILL ENTAIL DELINEATING THE AREA OF PROPOSED CONSTRUCTION ACTIVITIES.  
  
EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, BE MAINTAINED THROUGHOUT CONSTRUCTION, AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE FULLY

ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, SHALL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO WATERCOURSE.

ALL VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED AWAY FROM THE WATERCOURSES TO PREVENT CONTAMINATION OF SURFACE WATERS FROM POTENTIAL SPILLS. IN ADDITION, A SPILL KIT CONTAINING SUITABLE COMMERCIALY AVAILABLE ABSORBENT MATERIAL WILL BE STORED ON-SITE AND ACCESSIBLE, IN THE EVENT A SPILL WERE TO OCCUR.

ALL DISTURBED AREAS WILL BE RESTORED AND RE-VEGETATED UPON COMPLETION OF THE CONSTRUCTION WORKS.

- CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING, & REMOVING ANY TEMPORARY FACILITIES NECESSARY TO ACCESS THE SITE, INCLUDING, BUT NOT LIMITED TO, FENCES, GATES, CULVERTS, GRANULAR, SILT FENCES, & TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ACCESS TO THE SITE.
- ALL ACCESS WAYS MUST BE MAINTAINED TO A LEVEL THAT WILL PERMIT PASSAGE BY RAILWAY MAINTENANCE, ENGINEERING AND OPERATIONS VEHICLES AT ALL TIMES.
- THE CONTRACTOR MUST LIMIT MOVEMENT OF CONSTRUCTION TRAFFIC TO WITHIN THE CONSTRUCTION LIMITS. ANY AND ALL DAMAGE TO EXISTING FACILITIES (INCL. BUT NOT LIMITED TO FENCES, PAVEMENT, CULVERTS, ETC.) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

- THE CONTRACTOR IS ADVISED THAT THERE MAY BE CABLES THROUGHOUT THE CONSTRUCTION LIMITS. SPECIAL CARE MUST BE TAKEN TO ENSURE THAT THE CABLES ARE MARKED AND PROTECTED IN ACCORDANCE WITH SPC 1005.
- ALL RAILWAY SIGNS THAT MUST BE REMOVED SHALL BE RE-INSTALLED OR STORED IMMEDIATELY, ALL TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR MUST NOT ENTER ADJACENT PROPERTIES WITHOUT THE APPROVAL OF THE ENGINEER.

**DRAWING UNITS**

ALL UNITS ARE IN METRIC (m). TO CONVERT METRIC DIMENSIONS TO FEET MULTIPLY BY 3.28083 TO CONVERT METRIC STATIONING TO EQUIVALENT MILEAGE x BY 0.0006213

**CONSTRUCTION NOTES:**

SIDE 1 IS TO BE CONSTRUCTED AND COMPLETED PRIOR TO STARTING SIDE 2 CONSTRUCTION

**ABBREVIATIONS**

BC	BEGIN CURVE
BVC	BEGIN VERTICAL CURVE
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CL	CENTERLINE
CSP	CORRUGATED STEEL PIPE
CONC	CONCRETE
CP	CONTROL POINT
CULV	CULVERT
Dc	DEGREE OF CURVE (CHORD DEFINITION)
DWG	DRAWING
EC	END CURVE
ELEV.	ELEVATION
EVC	END VERTICAL CURVE
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EXIST.	EXISTING
INV.	INVERT (PIPE or DITCH)
MH	MANHOLE
MAX.	MAXIMUM
MIN.	MINIMUM
Mi.	MILEAGE
OG	ORIGINAL / EXISTING GROUND
PI	POINT OF INTERSECTION
PS	POINT OF SWITCH
PVI	POINT OF VERTICAL INTERSECTION
PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
PVIS	POINT OF VERTICAL INTERSECTION STATION
RH	RIGHT HAND
STM	STORM SEWER
STA.	STATION
TOR	TOP OF RAIL
TYP.	TYPICAL
XING	RAILWAY CROSSING
VAR.	VARIES OR VARIABLE
Ø	DIAMETER

**LEGENDS**

	EXISTING CL TRACK
	EXISTING CL TRACK TO BE REPROFILED
	EXISTING CL TRACK TO BE REPLACED
	EXISTING CL CRANE RAIL
	EXISTING BOTTOM OF SLOPE
	EXISTING TOP OF SLOPE
	EXISTING FENCE
	ADJUSTED FENCE
	DIRECTION OF DITCH FLOW
	NEW CL TRACK
	BORE HOLE
	DRAINAGE
	GRADING LIMITS
	EXISTING SURFACE CONTOURS
	UNDERGROUND CABLE
	NEW TURNOUT
	CATCH BASIN - TOP ENTRY
	CATCH BASIN - ROUND
	BOLLARD
	CONCRETE POST
	INSPECTION CHAMBER
	POWER POLE
	GUY WIRE

B	2021-11-01	FINAL SUBMISSION ISSUED FOR PDR	GG	AD	
A	2021-09-09	30% DESIGN SUBMISSION TO SRY	GG	AD	
No.	Date	REVISION	Drh	Chd	

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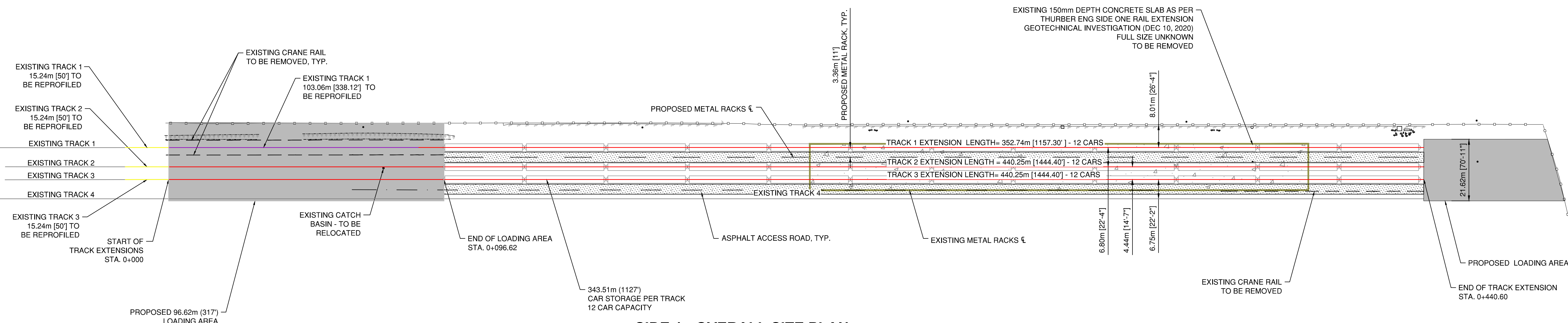
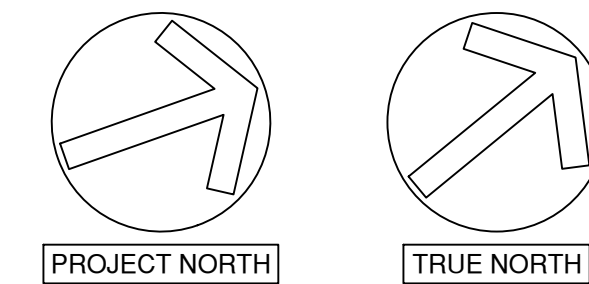
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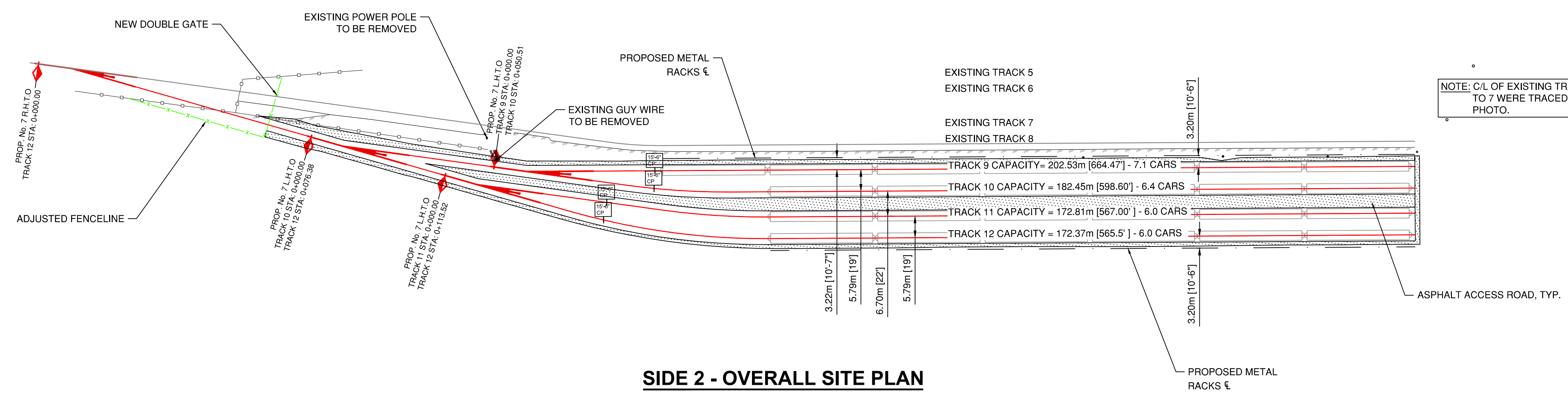
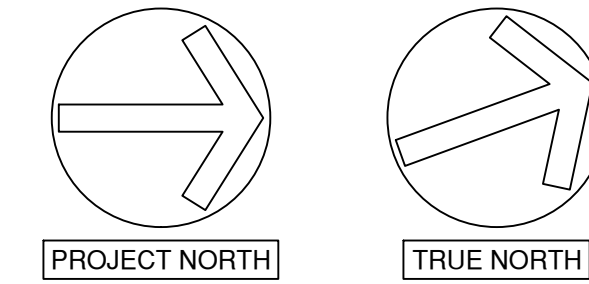
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DRAWN BY	GG
APPROVED	JTC
DATE	2021-11-01
SCALE	1:2500
REV. SITE	365

<b>ANNACIS AUTO TERMINAL</b>	
RAIL EXPANSION GENERAL NOTES AND KEY PLAN	
REV. SHEET	REV. B
NO. 365-037-RL-001	NO. 365-037-RL-001





**SIDE 1 - OVERALL SITE PLAN**



**SIDE 2 - OVERALL SITE PLAN**

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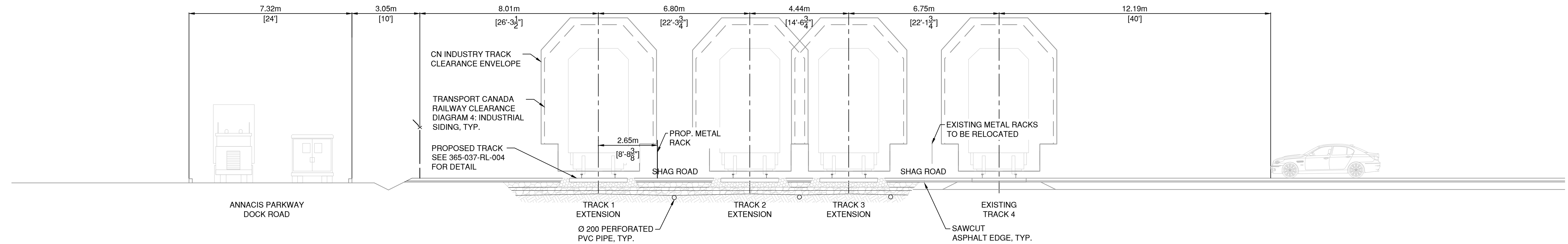


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DRAWN BY	GG
APPROVED	JTC
DATE	2021-11-01
SCALE	1:750
REV. SITE	365

ANNACIS AUTO TERMINAL RAIL EXPANSION OVERALL SITE PLAN		REV.	B
		SHEET	
SIZE	D	NO.	365-037-RL-002

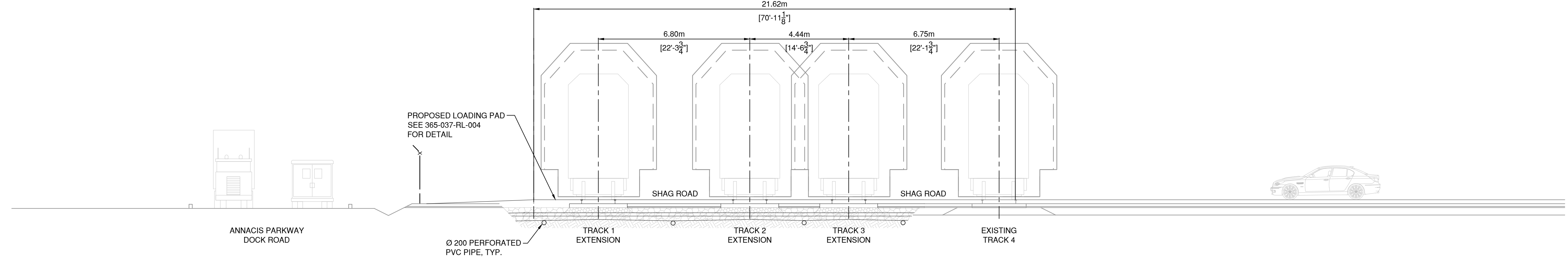
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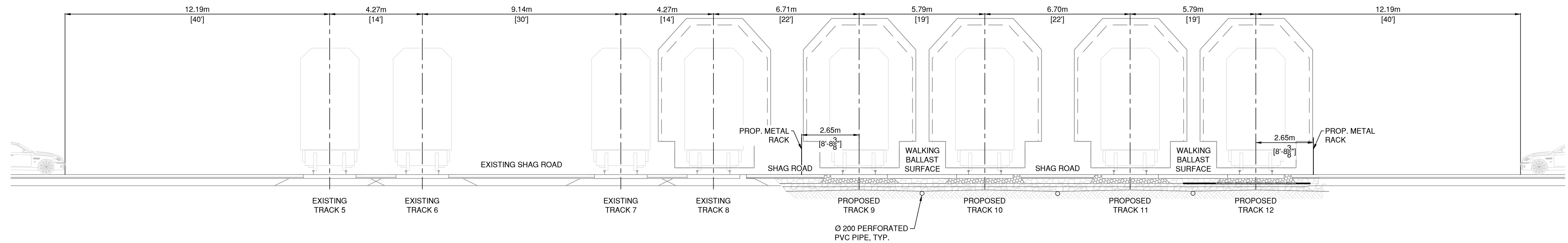
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SCALE 1:100



**TYPICAL TRACK SECTION AT LOADING PAD** ②

SCALE 1:100



**TYPICAL TRACK SECTION SIDE 2** ③

SCALE 1:100

**PRELIMINARY**

2021-11-01

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**AECOM**

**PORT of vancouver**

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DATE	2021-11-01
SCALE	1:100
REV. SITE	365

**ANNACIS AUTO TERMINAL**  
RAIL EXPANSION  
TYPICAL SECTIONS  
SHEET 1 OF 2

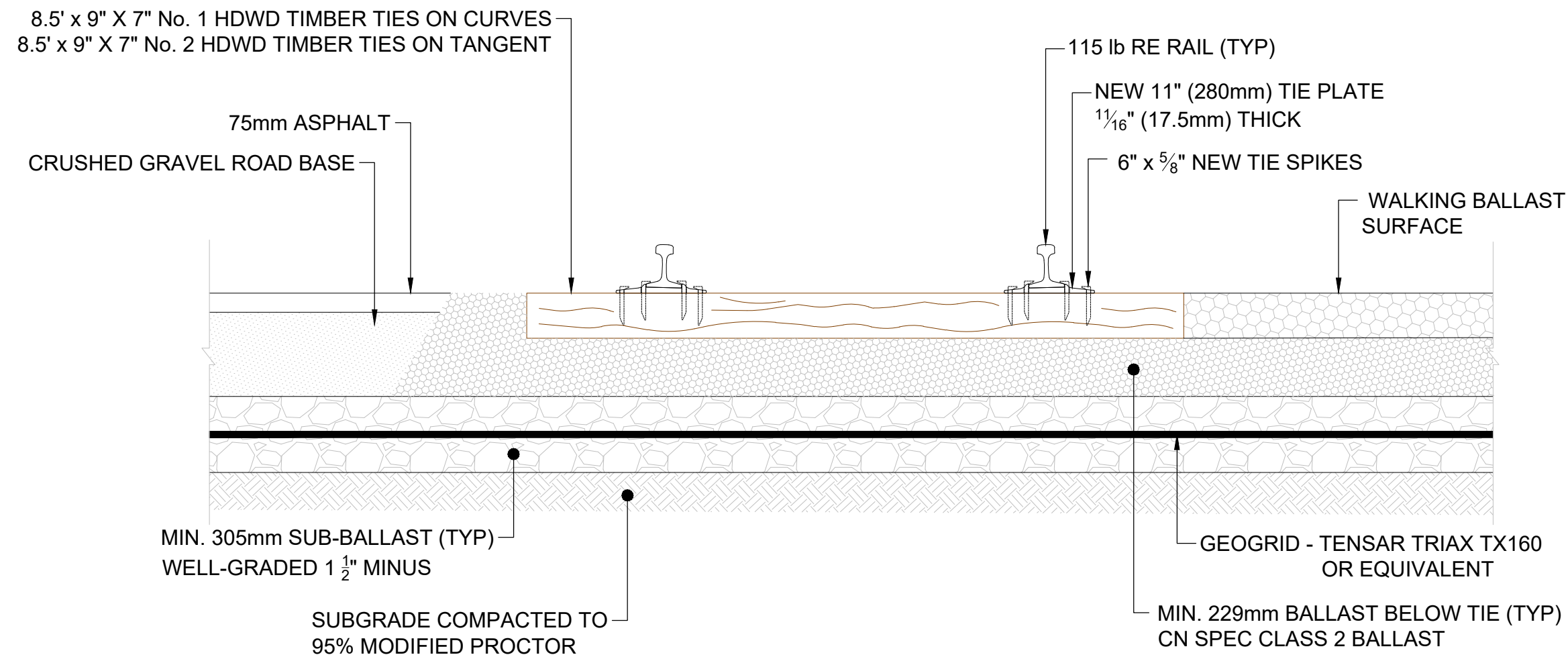
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No.	Date	REVISION	Drh	Chd
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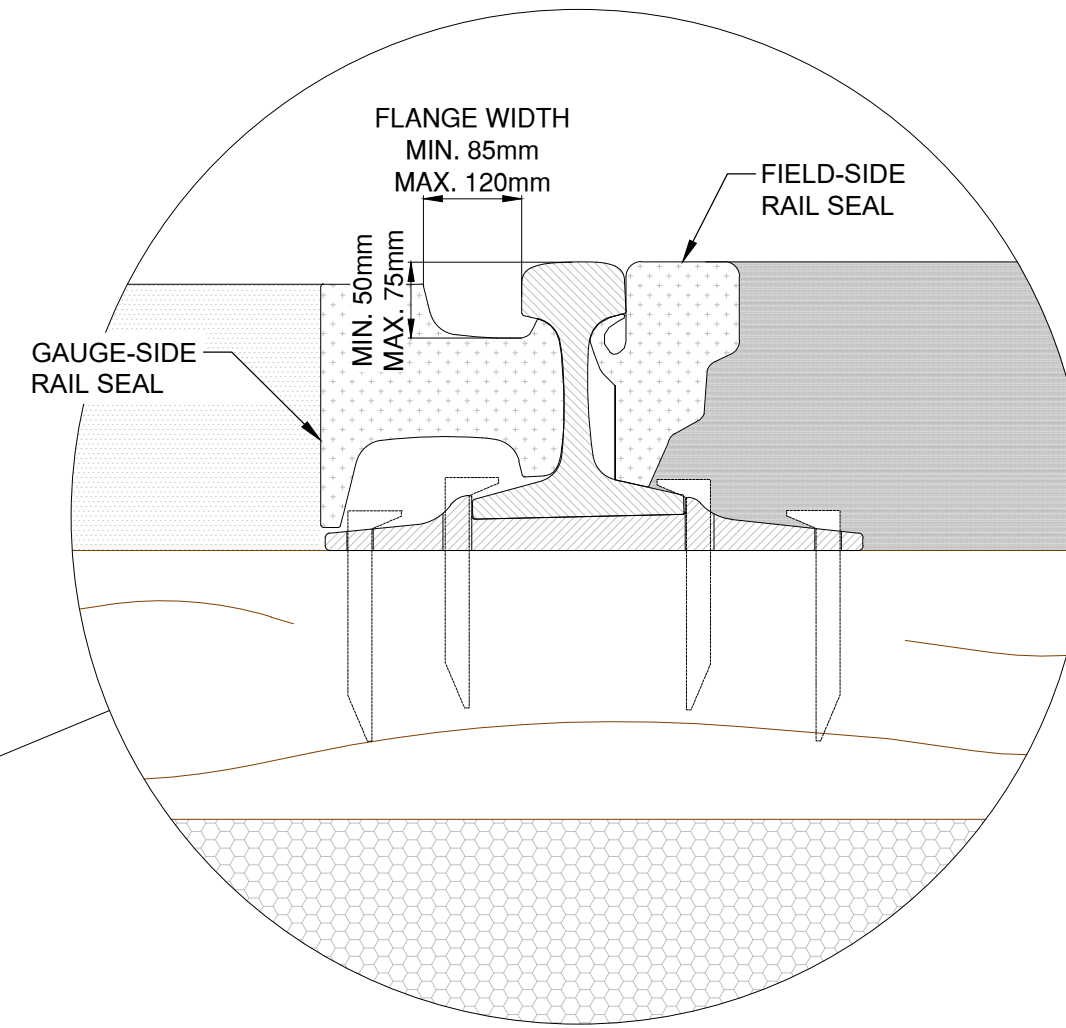
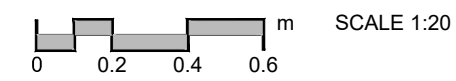


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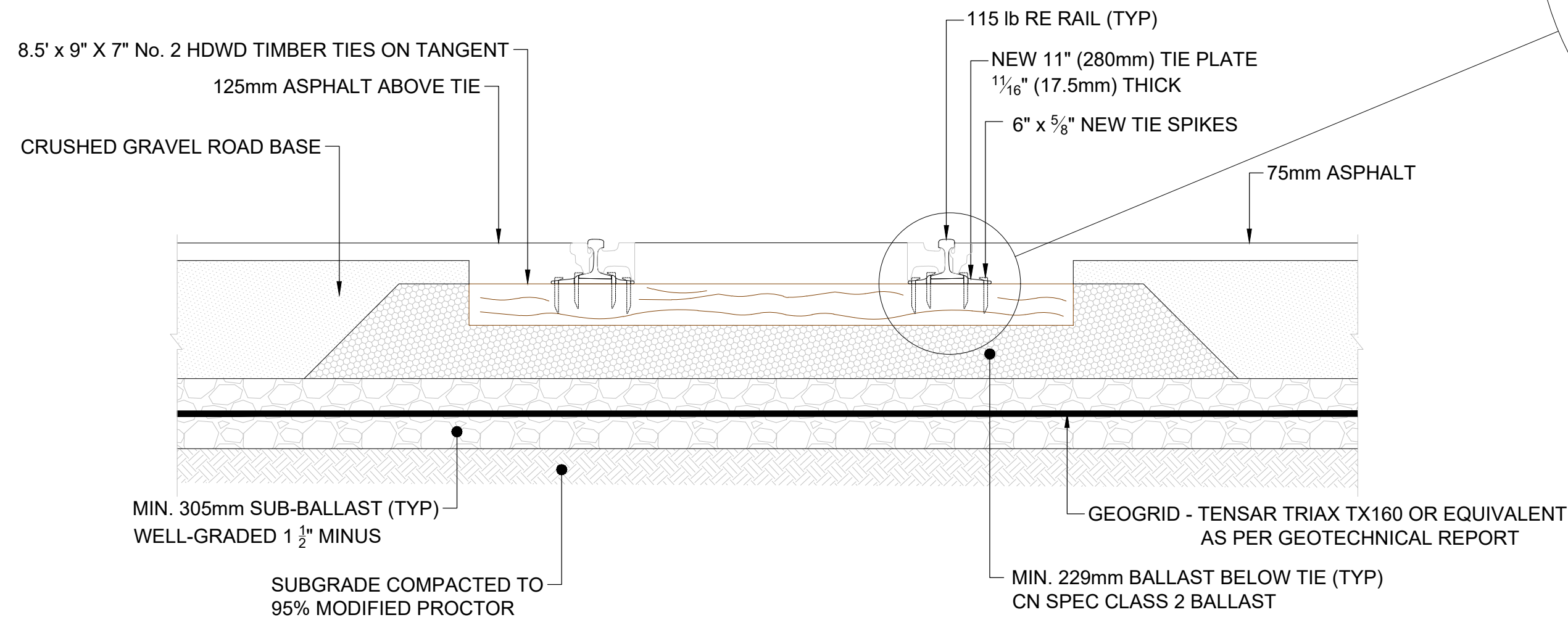
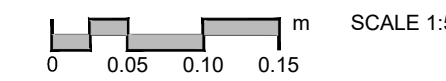
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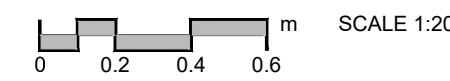
**TYPICAL TRACK SECTION DETAIL** 1



**RAIL SEAL - DETAIL** A



**TYPICAL TRACK SECTION AT ASPHALT LOADING PAD** 2



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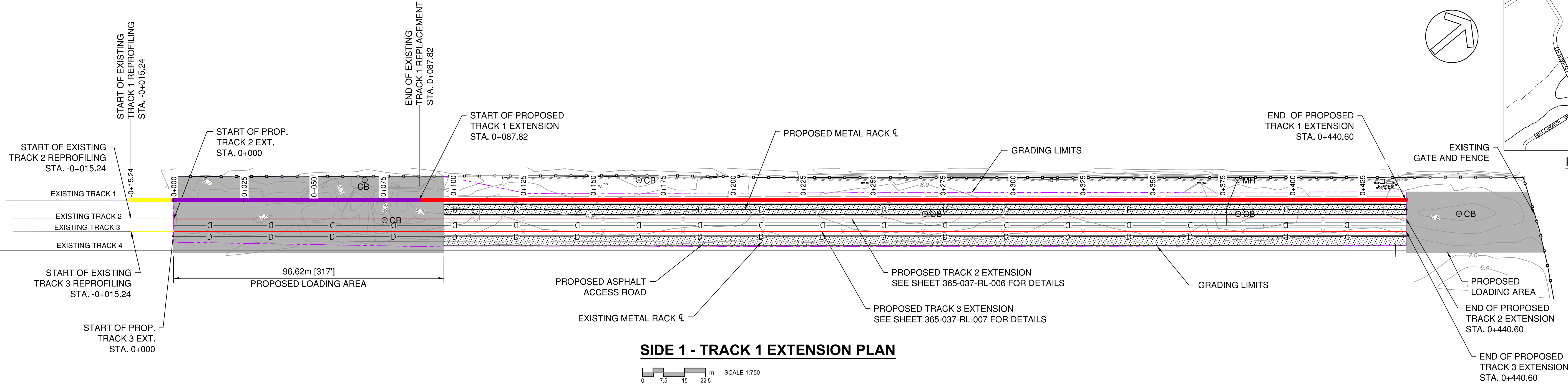
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RAIL EXPANSION  
TYPICAL SECTIONS  
SEET 2 OF 2

365-037- RL-004

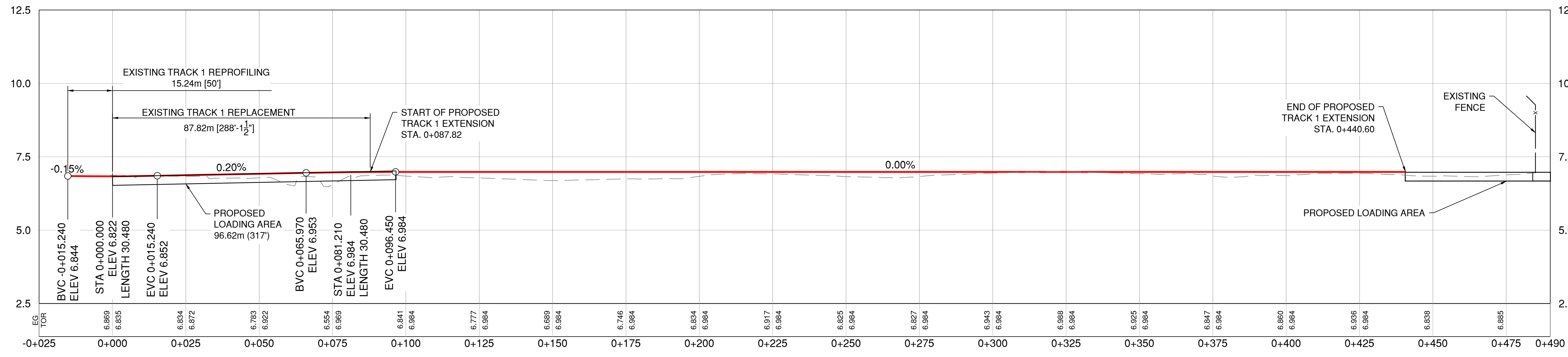
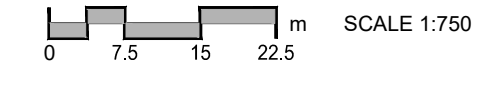
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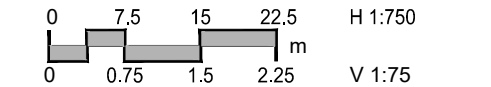
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**SIDE 1 - TRACK 1 EXTENSION PLAN**



**SIDE 1 - TRACK 1 EXTENSION PROFILE**



No.	Date	REVISION	Drn	Chd
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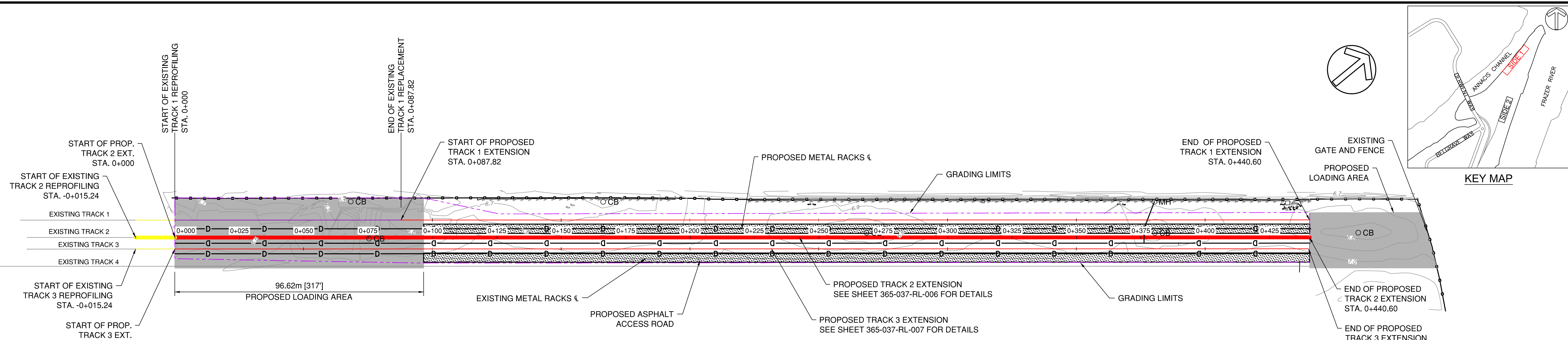
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DRAWN BY	GG
APPROVED	JTC
DATE	2021-11-01
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REV. SITE	365
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<b>ANNACIS AUTO TERMINAL</b>	
RAIL EXPANSION SIDE 1 TRACK 1 EXTENSION PLAN AND PROFILE	
SHEET	REV. B
365-037- RL-005	

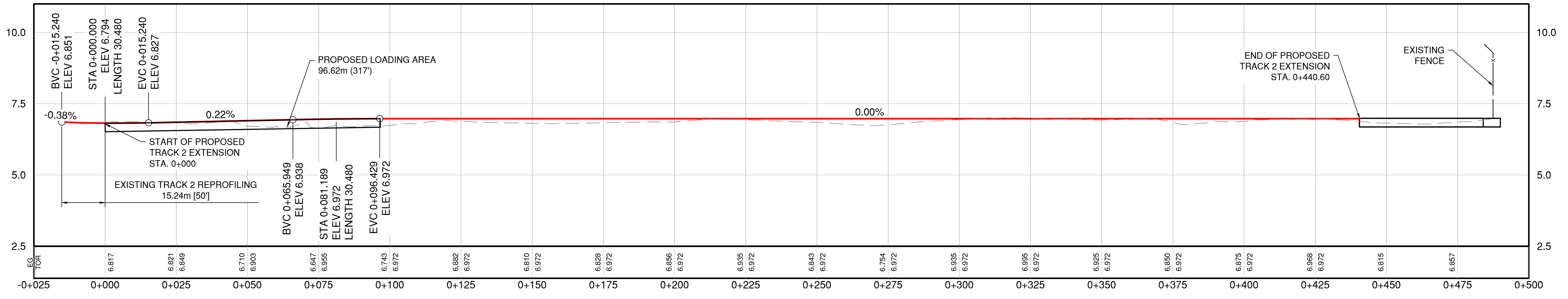
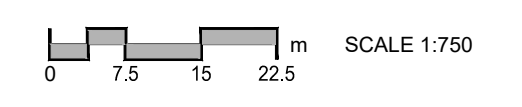


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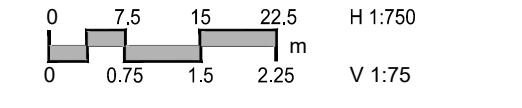
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**SIDE 1 - TRACK 2 EXTENSION PLAN**



**SIDE 1 - TRACK 2 EXTENSION PROFILE**



No.	Date	REVISION	Drn	Chd
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A	2021-09-09	30% DESIGN SUBMISSION TO SRY	GG	AD

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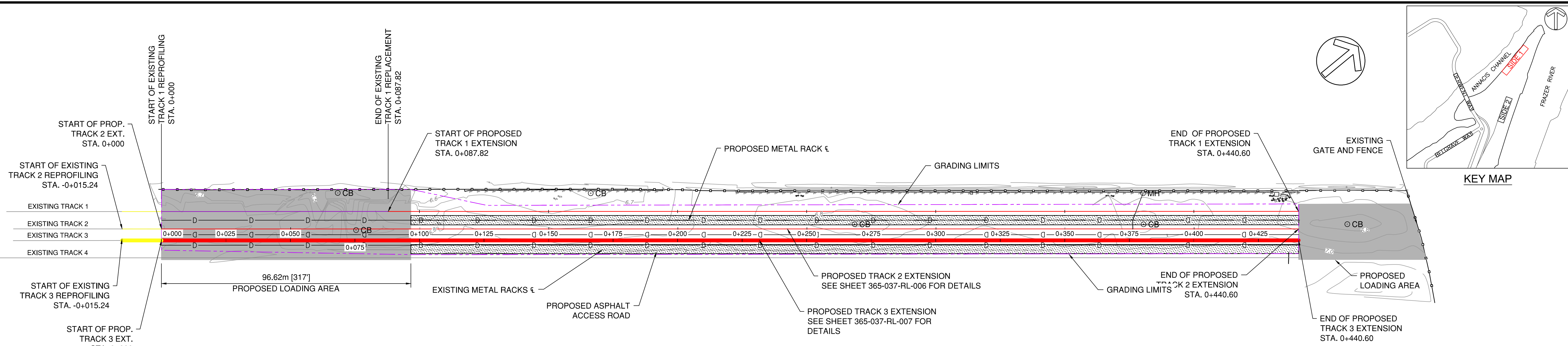
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DRAWN BY	GG
CHECKED BY	JTC
DATE	2021-11-01
SCALE	AS NOTED
PROJ. NO.	365
SHEET NO.	D

**ANNACIS AUTO TERMINAL**  
RAIL EXPANSION  
SIDE 1 TRACK 2 EXTENSION  
PLAN AND PROFILE

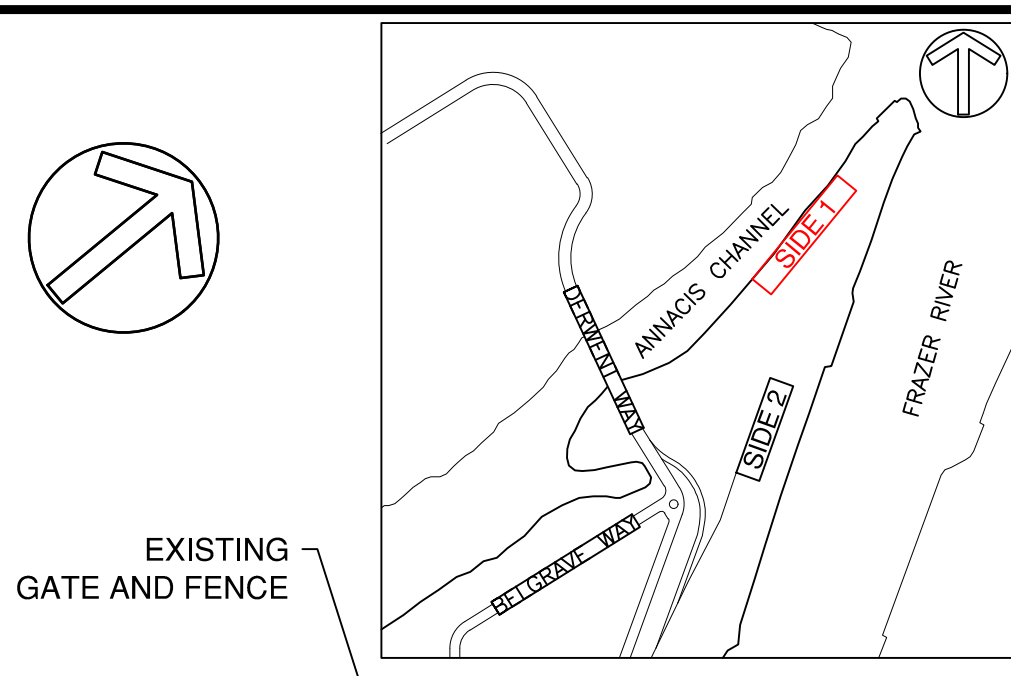
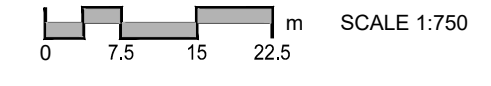
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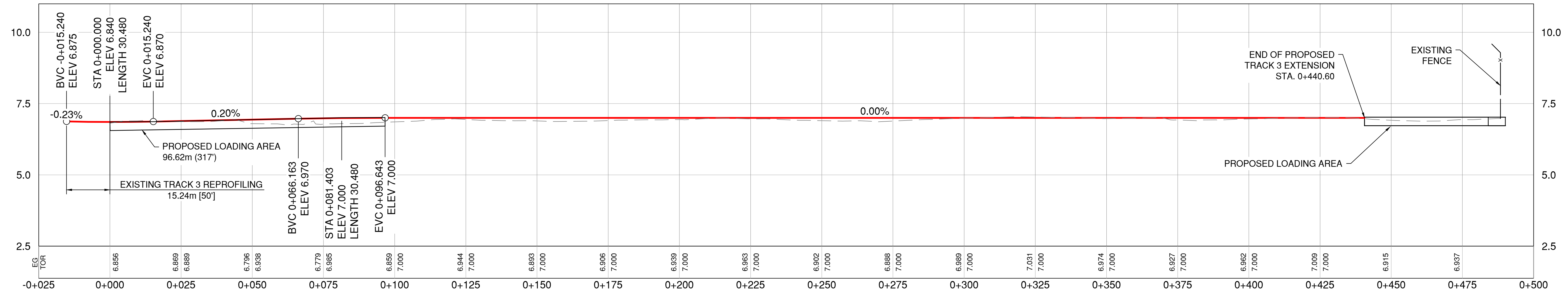
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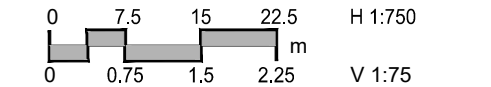
**SIDE 1 - TRACK 3 EXTENSION PLAN**



**KEY MAP**



**SIDE 1 - TRACK 3 EXTENSION PROFILE**



No.	Date	REVISION	Drn	Chd
B	2021-11-01	FINAL SUBMISSION ISSUED FOR PDR	AD	JTC
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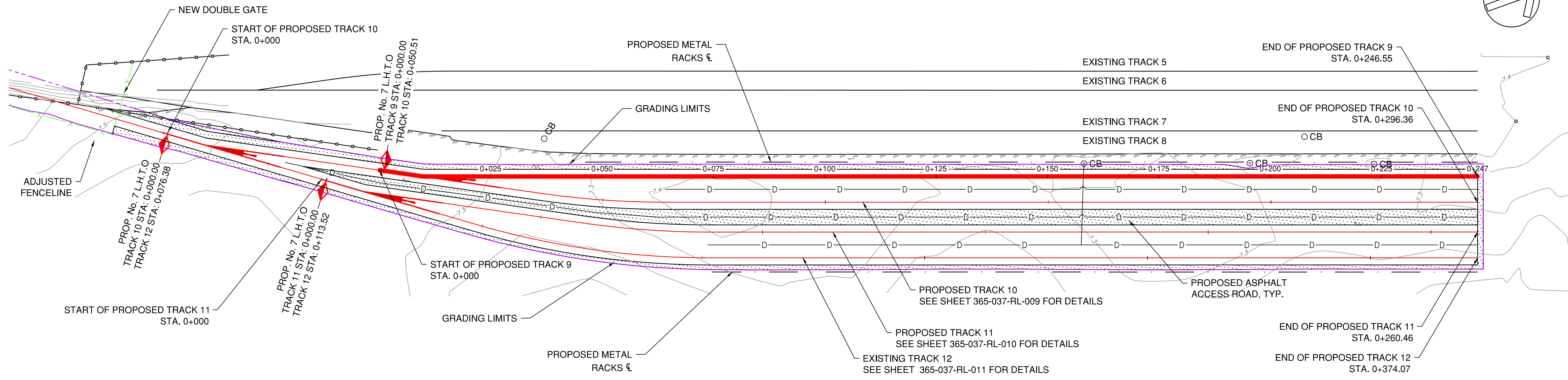
**ANNACIS AUTO TERMINAL**  
 RAIL EXPANSION  
 SIDE 1 TRACK 3 EXTENSION  
 PLAN AND PROFILE

SHEET 365-037- RL-007  
 REV. B

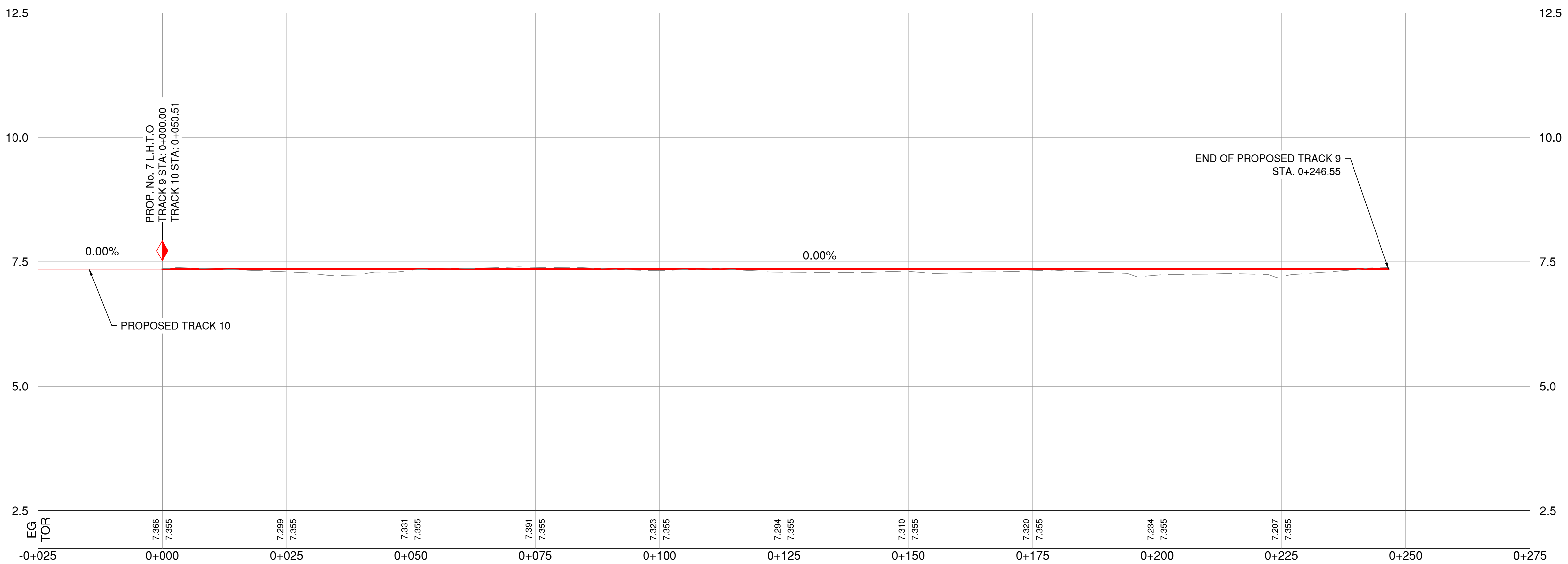


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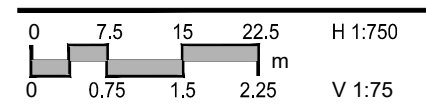
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**SIDE 2 - PROPOSED TRACK 9 PLAN**



**SIDE 2 - PROPOSED TRACK 9 PROFILE**



No.	Date	REVISION	Drn	Chd
B	2021-11-01	FINAL SUBMISSION ISSUED FOR PDR	AD	JTC
A	2021-09-09	30% DESIGN SUBMISSION TO SRY	GG	AD

**PRELIMINARY**  
 2021-11-01  
 DO NOT USE FOR  
 CONSTRUCTION

LEAD CONSULTANT

DESIGN BY	AD
DRAWN BY	GG
APPROVED	JTC
DATE	2021-11-01
SCALE	AS NOTED
REV. SITE	365
REV. NO.	D

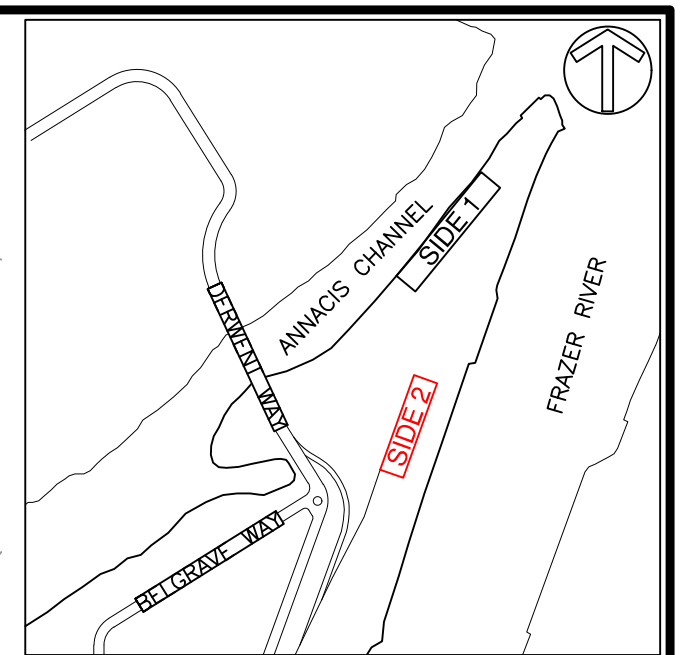
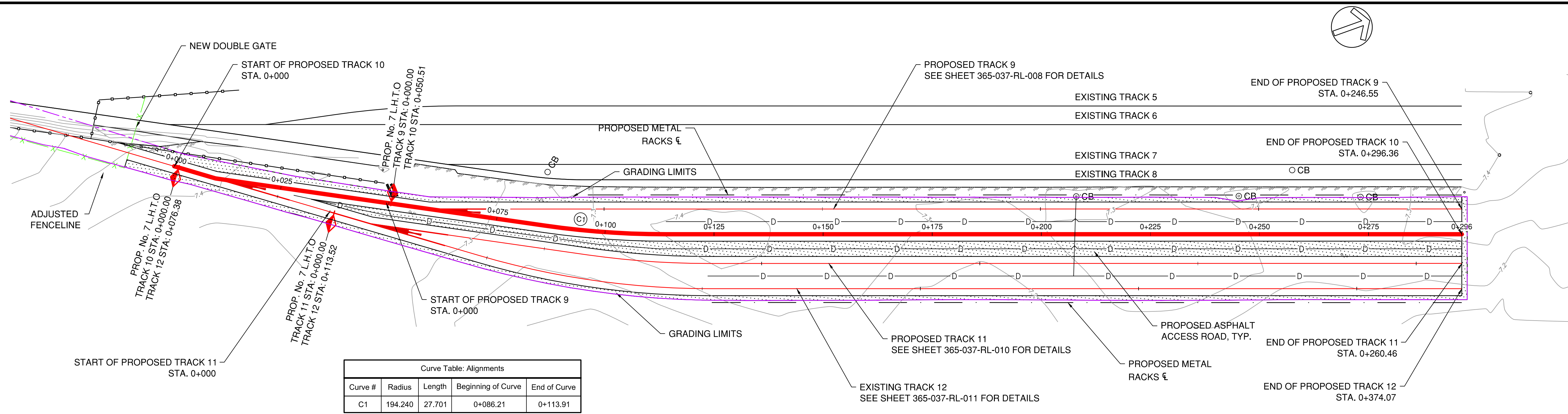
**ANNACIS AUTO TERMINAL**  
 RAIL EXPANSION  
 SIDE 2 PROPOSED TRACK 9  
 PLAN AND PROFILE

SHEET: 365-037- RL-008



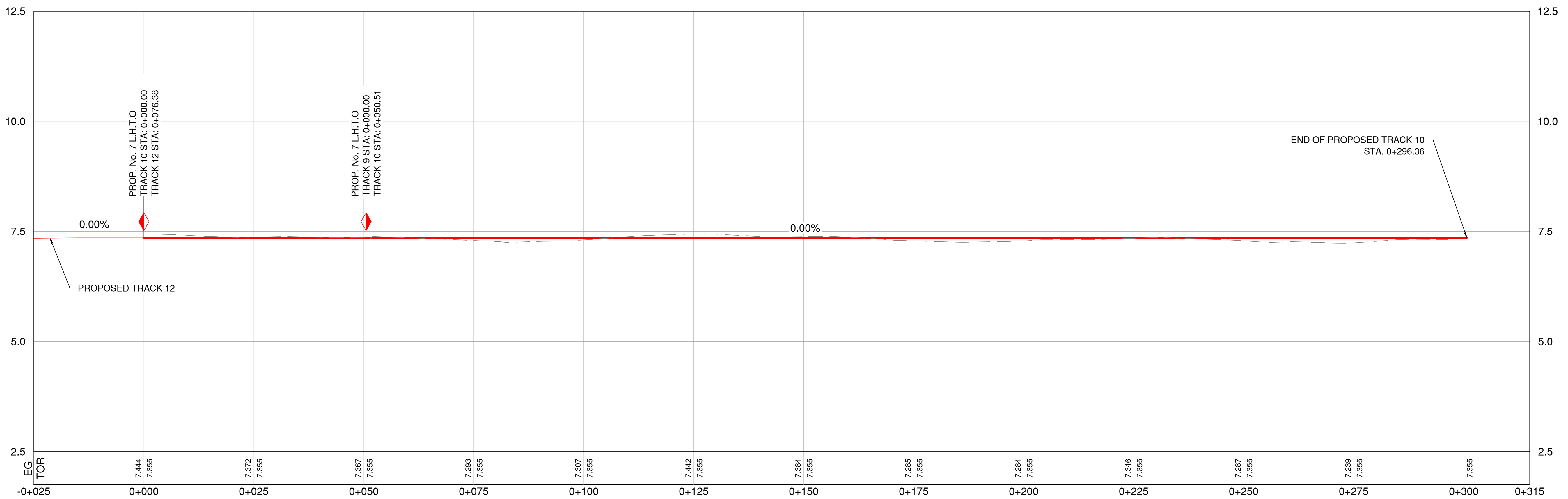
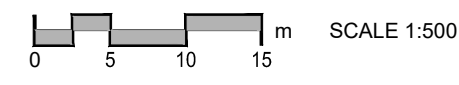
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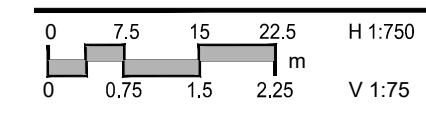


Curve Table: Alignments				
Curve #	Radius	Length	Beginning of Curve	End of Curve
C1	194.240	27.701	0+086.21	0+113.91

**SIDE 2 - PROPOSED TRACK 10 PLAN**



**SIDE 2 - PROPOSED TRACK 10 PROFILE**



No.	Date	REVISION	Drn	Chd
B	2021-11-01	FINAL SUBMISSION ISSUED FOR PDR	GG	JTC
A	2021-09-09	30% DESIGN SUBMISSION TO SRY	GG	AD

**PRELIMINARY**  
2021-11-01  
DO NOT USE FOR CONSTRUCTION

LEAD CONSULTANT

DESIGN BY	AD
DRAWN BY	GG
APPROVED	JTC
DATE	2021-11-01
SCALE	AS NOTED

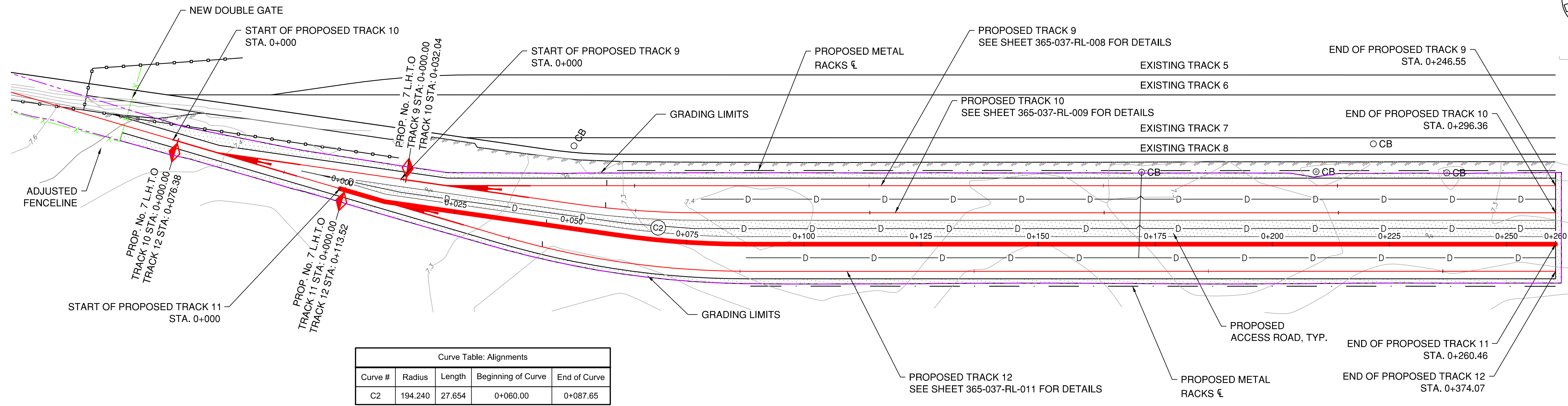
**ANNACIS AUTO TERMINAL**  
RAIL EXPANSION  
SIDE 2 PROPOSED TRACK 10  
PLAN AND PROFILE

365-037- RL-009



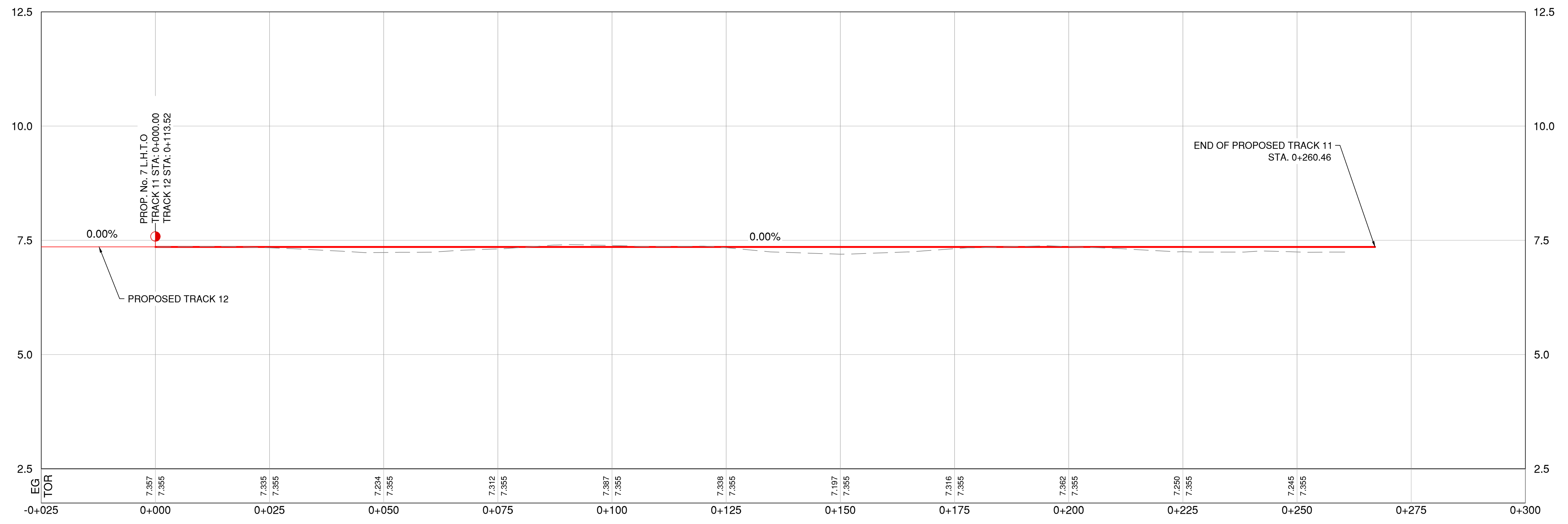
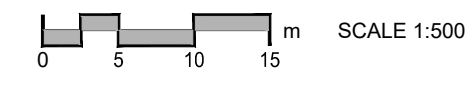
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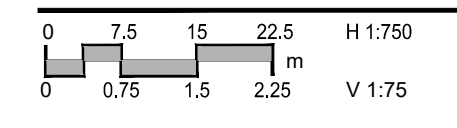


Curve Table: Alignments				
Curve #	Radius	Length	Beginning of Curve	End of Curve
C2	194.240	27.654	0+060.00	0+087.65

**SIDE 2 - PROPOSED TRACK 11 PLAN**



**SIDE 2 - PROPOSED TRACK 11 PROFILE**



No.	Date	REVISION	Drn	Chd
B	2021-11-01	FINAL SUBMISSION ISSUED FOR PDR	GG	JTC
A	2021-09-09	30% DESIGN SUBMISSION TO SRY	GG	AD

**PRELIMINARY**  
2021-11-01  
DO NOT USE FOR  
CONSTRUCTION



DESIGN BY	AD
DRAWN BY	GG
APPROVED	JTC
DATE	2021-11-01
SCALE	AS NOTED
REV. SITE	365
REV. NO.	D

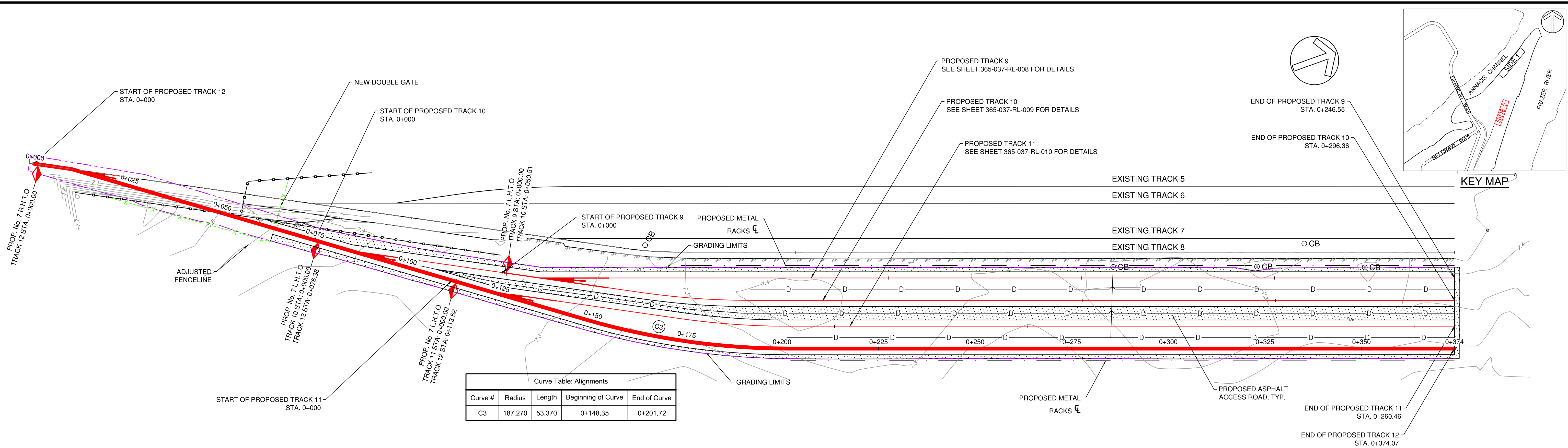
**ANNACIS AUTO TERMINAL**  
RAIL EXPANSION  
SIDE 2 PROPOSED TRACK 11  
PLAN AND PROFILE

365-037- RL-010



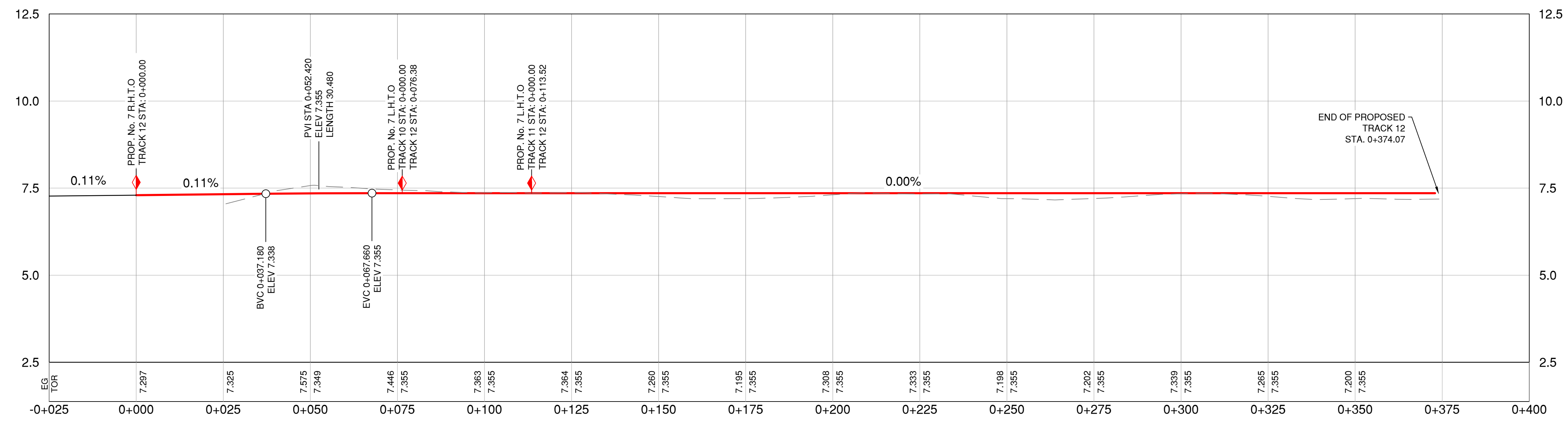
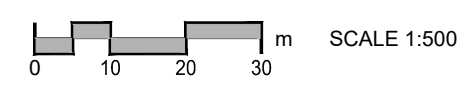
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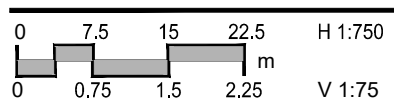


Curve Table: Alignments				
Curve #	Radius	Length	Beginning of Curve	End of Curve
C3	187.270	53.370	0+148.35	0+201.72

**SIDE 2 - PROPOSED TRACK 12 PLAN**



**SIDE 2 - PROPOSED TRACK 12 PROFILE**



No.	Date	REVISION	Drn	Chd
B	2021-11-01	FINAL SUBMISSION ISSUED FOR PDR	GG	JTC
A	2021-09-09	30% DESIGN SUBMISSION TO SRY	GG	AD

**PRELIMINARY**  
2021-11-01  
DO NOT USE FOR CONSTRUCTION

LEAD CONSULTANT

DESIGN BY	AD
DRAWN BY	GG
APPROVED	JTC
DATE	2021-11-01
SCALE	1:750
PROJ. SITE	365
SHEET NO.	D

**ANNACIS AUTO TERMINAL**  
RAIL EXPANSION  
SIDE 2 PROPOSED TRACK 12  
PLAN AND PROFILE

365-037- RL-011