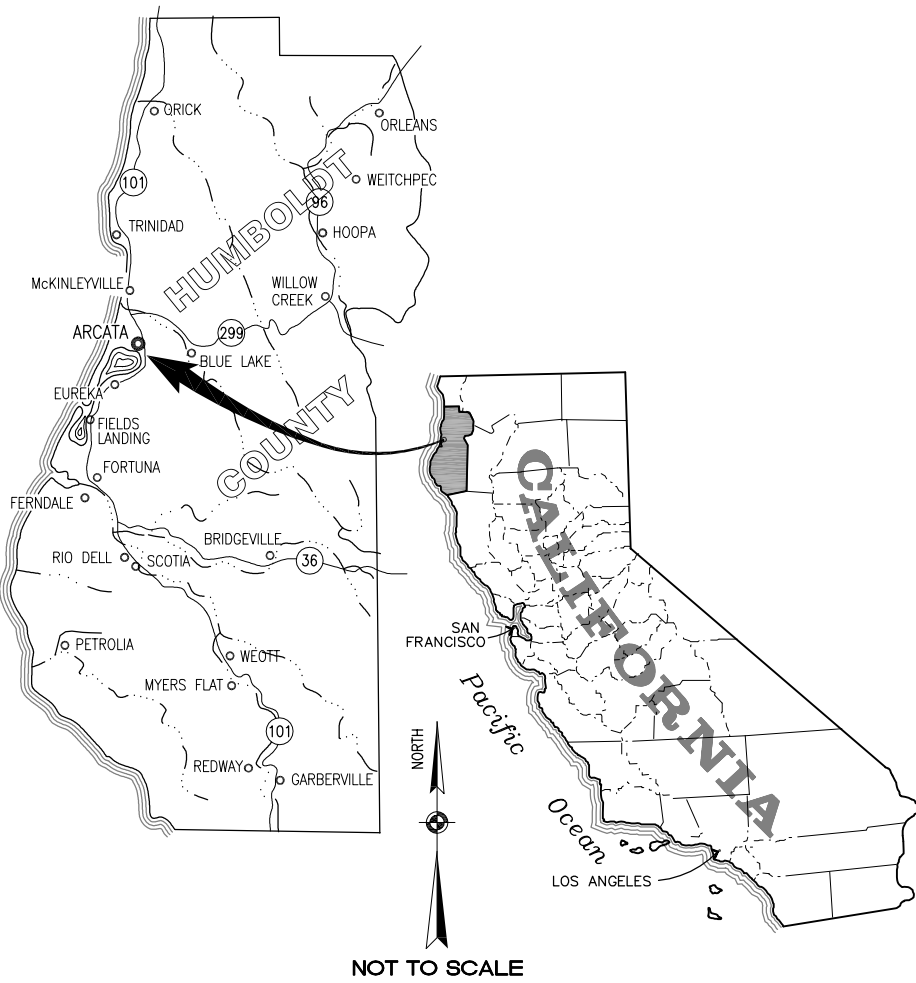


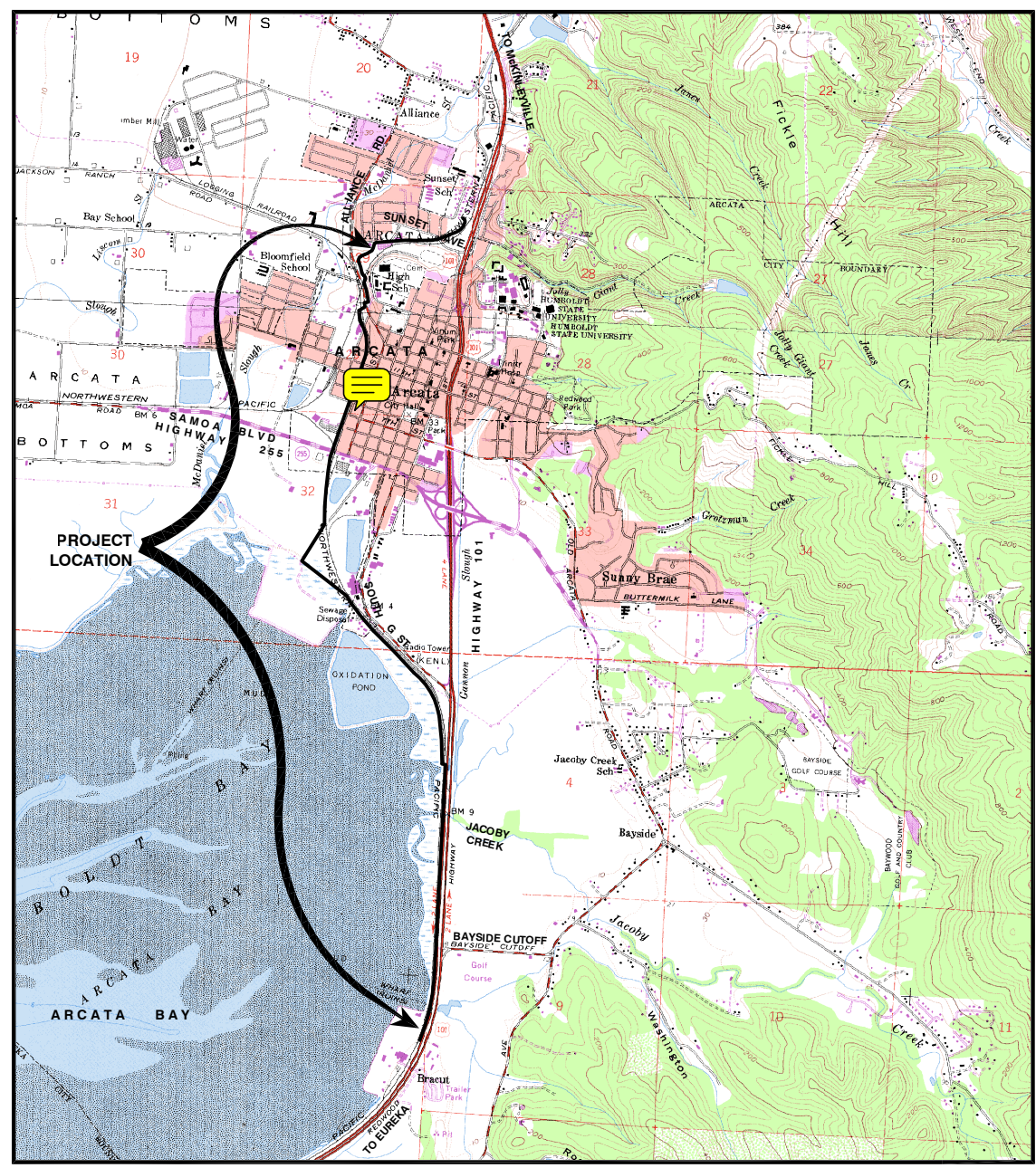
# CITY OF ARCATA

# RAIL WITH TRAIL CONNECTIVITY PROJECT

## FEBRUARY 2011

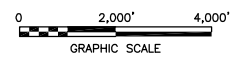


LOCATION MAP



SOURCE: USGS QUADRANGLE MAP

VICINITY MAP



THIS PROJECT REQUIRES A CLASS 'A'  
GENERAL ENGINEERING CONTRACTORS LICENSE

### APPROVALS

CITY OF ARCATA  
DIRECTOR OF PUBLIC WORKS  
DOBY CLASS

APPROVAL \_\_\_\_\_ SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

CITY OF ARCATA  
DIRECTOR OF ENVIRONMENTAL SERVICES  
MARK ANDRE

APPROVAL \_\_\_\_\_ SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

CITY OF ARCATA  
PROJECT MANAGER  
KAREN DIEMER

APPROVAL \_\_\_\_\_ SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

ENGINEERS  
WINZLER & KELLY  
PROJECT MANAGER  
MERRITT A. PERRY



APPROVAL \_\_\_\_\_ SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

REVISED	FEB. 2011	100% SUBMITTAL	NOT FOR CONSTRUCTION	SYMBOL	DESCRIPTION	DATE	APPROVED
WINZLER & KELLY 633 THIRD STREET EUREKA, CA 95501-0417 PH (707) 443-8326 FAX (707) 444-8330 SUBCONSULTANT							
DES	JS	CHK	PK	DRAWING SCALE AS NOTED	CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT GENERAL COVER SHEET		
JOB NUMBER 01051-09-004							
SHEET 1 OF 73							
G-1.0							

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GENERAL SHEETS:

- 1 G-1.0 COVER SHEET
- 2 G-2.0 DRAWING INDEX
- 3 G-3.0 GENERAL SYMBOLS AND ABBREVIATIONS
- 4 G-4.0 CONSTRUCTION NOTES
- 5 G-5.0 TYPICAL TRAIL SECTIONS
- 6 G-6.0 TYPICAL TRAIL SECTIONS
- 7 G-7.0 TYPICAL TRAIL SECTIONS
- 8 G-8.0 SUMMARY OF QUANTITIES
- 9 G-9.0 PLAN SHEET INDEX

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- 10 C-1.0 PLAN & PROFILE STA 10+00 TO STA 15+50
- 11 C-2.0 PLAN & PROFILE STA 15+50 TO STA 21+00
- 12 C-3.0 PLAN & PROFILE STA 21+00 TO STA 26+50
- 13 C-4.0 PLAN & PROFILE STA 26+50 TO STA 32+00
- 14 C-5.0 PLAN & PROFILE STA 32+00 TO STA 37+50
- 15 C-6.0 PLAN & PROFILE STA 37+50 TO STA 43+00
- 16 C-7.0 PLAN & PROFILE STA 43+00 TO STA 48+50
- 17 C-8.0 PLAN & PROFILE STA 48+50 TO STA 54+00
- 18 C-9.0 PLAN & PROFILE STA 54+00 TO STA 59+50
- 19 C-10.0 PLAN & PROFILE STA 59+50 TO STA 65+00
- 20 C-11.0 PLAN & PROFILE STA 65+00 TO STA 70+50
- 21 C-12.0 PLAN & PROFILE STA 70+50 TO STA 76+00
- 22 C-13.0 PLAN & PROFILE STA 76+00 TO STA 81+50
- 23 C-14.0 PLAN & PROFILE STA 81+50 TO STA 87+00
- 24 C-15.0 PLAN & PROFILE STA 87+00 TO STA 92+50
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- 31 C-22.0 PLAN & PROFILE STA 125+50 TO STA 131+00
- 32 C-23.0 PLAN & PROFILE STA 131+00 TO STA 136+50
- 33 C-24.0 PLAN & PROFILE STA 136+50 TO STA 142+00
- 34 C-25.0 PLAN & PROFILE STA 142+00 TO STA 147+50
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- 37 C-28.0 PLAN & PROFILE STA 158+50 TO STA 164+00
- 38 C-29.0 PLAN & PROFILE STA 164+00 TO STA 169+50
- 39 C-30.0 PLAN & PROFILE STA 169+50 TO STA 175+00
- 40 C-31.0 PLAN & PROFILE STA 175+00 TO STA 180+50
- 41 C-32.0 PLAN & PROFILE STA 180+50 TO STA 186+00
- 42 C-33.0 PLAN & PROFILE STA 186+00 TO STA 191+50
- 43 C-34.0 PLAN & PROFILE STA 191+50 TO STA 197+00
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- 46 C-37.0 PLAN & PROFILE STA 208+00 TO STA 213+50
- 47 C-38.0 PLAN & PROFILE STA 213+50 TO STA 219+00
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- 49 C-40.0 PLAN & PROFILE STA 224+50 TO STA 230+00
- 50 C-41.0 PLAN & PROFILE STA 230+00 TO STA 235+50
- 51 C-42.0 PLAN & PROFILE STA 235+50 TO END
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- 53 C-44.0 INTERSECTION LAYOUT - SAMOA BLVD/HWY 255
- 54 C-45.0 INTERSECTION LAYOUT - ALLIANCE ROAD CROSSING
- 55 C-46.0 INTERSECTION LAYOUT - 15TH ST & ALLIANCE ROAD
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- 58 CD-1.0 STANDARD DETAILS
- 59 CD-2.0 STANDARD DETAILS
- 60 CD-3.0 STANDARD DETAILS
- 61 CD-4.0 STANDARD DETAILS

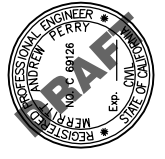
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- 63 S-2.0 BRAINARD'S SLOUGH CROSSING  
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- 65 S-4.0 GANNON SLOUGH BRIDGE  
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- 72 ER-1.0 EROSION & SEDIMENT CONTROL NOTES & DETAILS
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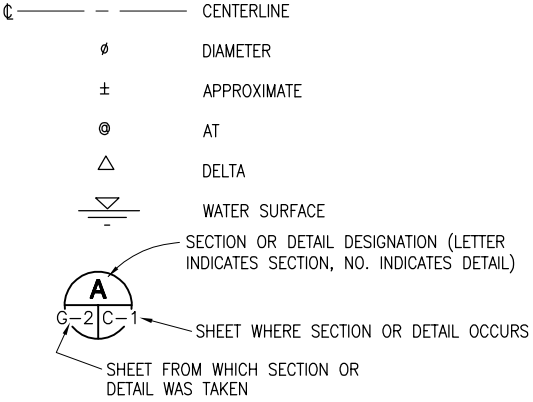
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CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT GENERAL DRAWING INDEX		JOB NUMBER 01051-09-004		SHEET 2 OF 73		G-2.0	
		DES		SUPP		SEAL	
		JS		MP			
WINZLER & KELLY 633 THIRD STREET EUREKA, CA 95501-0417 PH (707) 443-8326 FAX (707) 444-8330 SUBCONSULTANT		DRN		SJD		CHK	
		PK		MP		DRAWING SCALE AS NOTED	
REVISED		FEB. 2011		SYN.		DESCRIPTION	
100% SUBMITTAL NOT FOR CONSTRUCTION		DATE		APPROVED		REVISIONS	

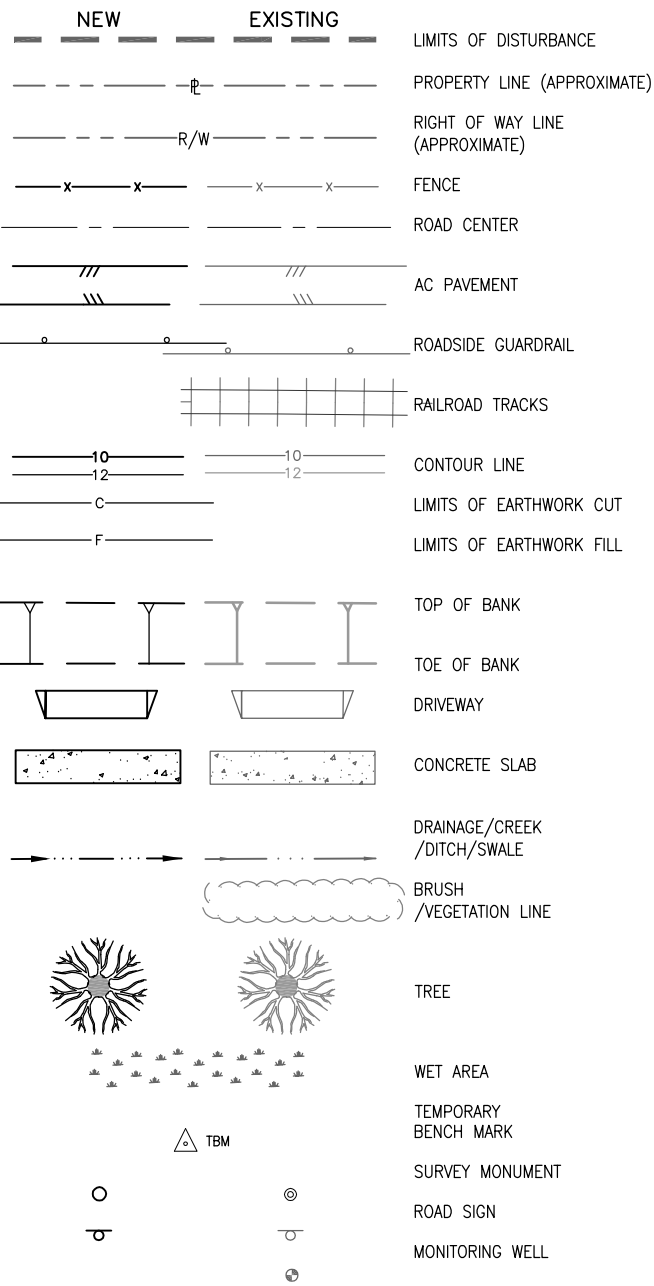
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**SYMBOLS:**

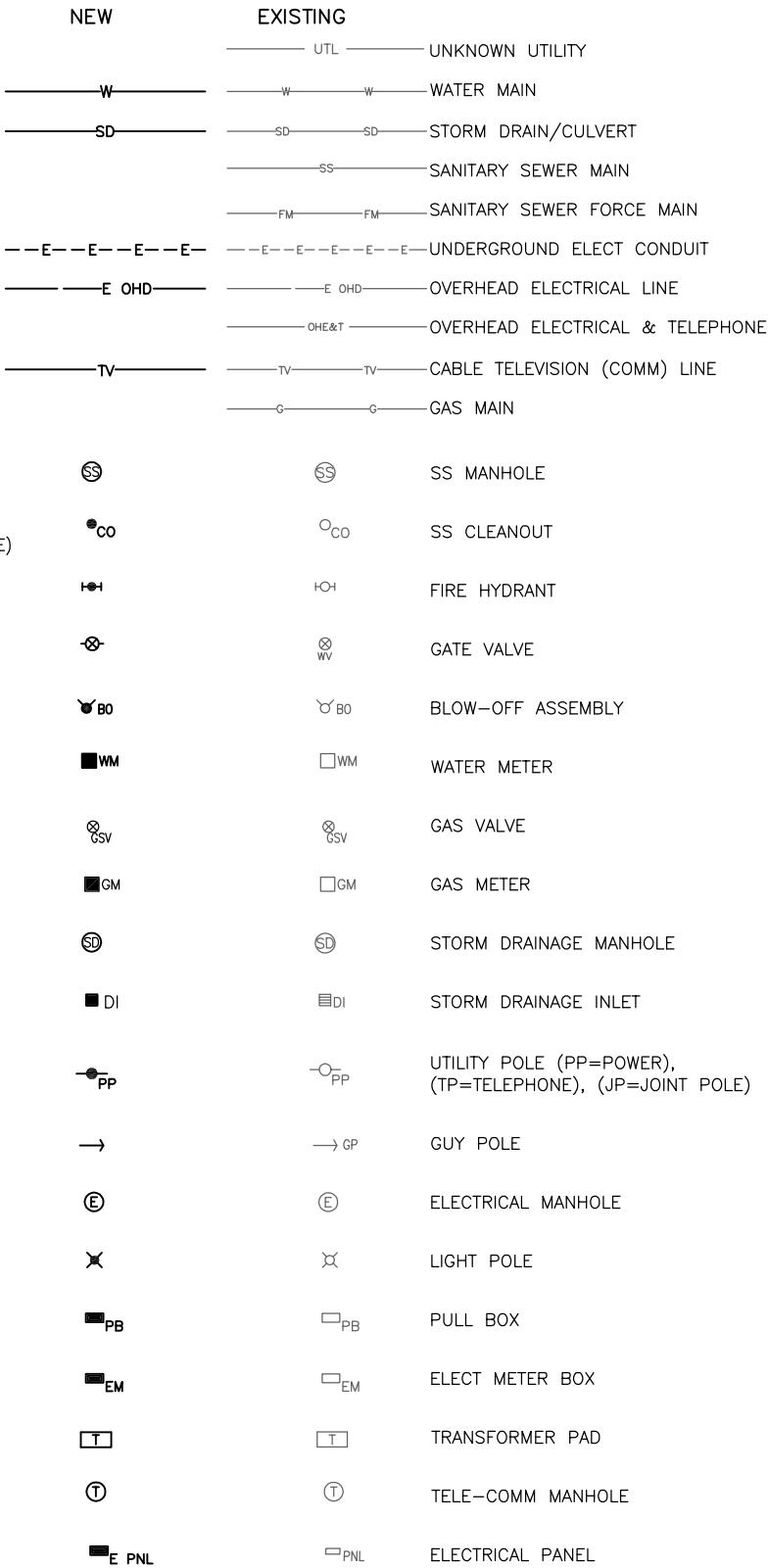
GENERAL:



TOPOGRAPHIC:



UTILITY:



**ABBREVIATIONS:**

AB	ANCHOR BOLT	FP	FIRE PROTECTION	PVC	POLYVINYL CHLORIDE PLASTIC PIPE
AB	AGGREGATE BASE	FS	FINISHED SURFACE	PVI	POINT OF VERTICAL INTERSECT
AC	ASPHALT CONCRETE	FT	FOOT OR FEET		
AGG	AGGREGATE	FTG	FOOTING	R, RAD	RADIUS
ARV	AIR-VACUUM RELEASE VALVE	G	GAS LINE	RC	RELATIVE COMPACTION
ASS'Y.	ASSEMBLY	GAL	GALLON	RCP	REINFORCED CONCRETE PIPE
AVE	AVENUE	GALV	GALVANIZED	RD	ROAD
AWWA	AMERICAN WATER WORKS ASSOCIATION	GB	GRADE BREAK	RDWD	REDWOOD
		GR	GRADE	REQ'D	REQUIRED
		GRD	GROUND	REQ'T	REQUIREMENT
		GV	GATE VALVE	RPP	REDUCED PRESSURE PRINCIPAL
				RSP	ROCK SLOPE PROTECTION
B-	BORING			RT	RIGHT
BC	BEGIN CURVE			R/W	RIGHT-OF-WAY
BFP	BACK FLOW PREVENTER	HB	HOSE BIBB		
BM	BENCH MARK	HORZ	HORIZONTAL	S	SLOPE
BLDG	BUILDING	HPS	HIGH PRESSURE SODIUM	SAT	SATURATED
BLVD	BOULEVARD	HWY	HIGHWAY	SCH,	SCHEDULE
BO	BLOW OFF	HYD	HYDRANT	SCHED	
BOT	BOTTOM			SD	STORM DRAIN
BVC	BEGIN VERTICAL CURVE	IP	IRON PIPE	SDMH	STORM DRAIN MANHOLE
BVCE	BEGIN VERTICAL CURVE ELEVATION	INV	INVERT	SHT	SHEET
BVCS	BEGIN VERTICAL CURVE STATION			SIM	SIMILAR
		JCT	JUNCTION	SO	SOUTH
		JP	JOINT UTILITY POLE	SS	SANITARY SEWER
				S STL	STAINLESS STEEL
C	CONDUIT	K	RATE OF CURVATURE	STA	STATION
CI	CAST IRON			STD	STANDARD
CL, CL	CENTERLINE	L	LENGTH	STL	STEEL
CLR	CLEAR, CLEARANCE	LAT	LATERAL		
CO	CLEANOUT	LS	LIFT STATION	T	TANGENT
CMP	CORRUGATED METAL PIPE	LT	LEFT	T, TEL	TELEPHONE
CMU	CONCRETE MASONRY UNIT	LVC	LENGTH VERTICAL CURVE	TC	TOP OF CURB
CONC	CONCRETE			THK	THICK
CONT	CONTINUOUS	MAX	MAXIMUM	TG	TOP GRATE
CONT'D	CONTINUED	M	METER	TP	TEST PIT
COORD	COORDINATE	MFR	MANUFACTURER	TS	TOP OF SLAB
COR	CORNER	MH	MAN HOLE	TW	TOP OF WALK
CU	CUBIC	MIN	MINIMUM	TYP	TYPICAL
CV	CHECK VALVE	MISC	MISCELLANEOUS		
		MG	MILLION GALLON	UBC	UNIFORM BUILDING CODE
d	PENNY (NAIL SIZE)	N	NORTH	UNO	UNLESS OTHERWISE NOTED
DIA, Ø	DIAMETER	(N)	NEW		
DTL	DETAIL	NIC	NOT IN CONTRACT	V	VOLT(S)
DI	DROP (DRAINAGE) INLET	NO	NUMBER	VERT	VERTICAL
DF	DOUGLAS FIR	NTS	NOT TO SCALE		
DR	DRIVE			W/	WITH
DW	DOMESTIC WATER LINE	OC	ON CENTERS	W	WATER
DWG	DRAWING	OPNG	OPENING	WD	WIDE
(E)	EXISTING			XING	CROSSING
E	EAST	PC	POINT OF CURVE		
EA	EACH	PCC	PORTLAND CONCRETE CEMENT	YD	YARD
EC	END CURVE	PE	POLYETHYLENE		
EF	EACH FACE	PI	POINT OF INTERSECTION		
EP	EDGE PAVING	PL	PLATE		
EQ	EQUAL	P/L, PL	PROPERTY LINE		
ER	EDGE ROAD	PLCS	PLACES		
EL/ELEV	ELEVATION	PLWD	PLYWOOD		
ELEC	ELECTRIC	POC	POINT OF CONNECTION		
ENGR	ENGINEER	PP	POWER POLE		
EVC	END VERTICAL CURVE	PRC	POINT OF REVERSE CURVE		
EVCE	END VERTICAL CURVE ELEVATION	PRV	PRESSURE REDUCING VALVE		
EVCS	END VERTICAL CURVE STATION	PSI	POUNDS PER SQUARE INCH		
EW	EACH WAY	PT	POINT		
		PT	POINT OF TANGENT BEGINING		
FIN	FINISH		PRESSURE TREATED		
FF	FINISH FLOOR				
FL	FIRE HYDRANT				
FL, FL	FLOW LINE				
FLR	FLOOR				

**NOTE:** CONTACT ENGINEER FOR ABBREVIATIONS NOT LISTED.

REVISED

100% SUBMITTAL

NOT FOR CONSTRUCTION

DATE

SYMBOL

REVISIONS

WINZLER & KELLY

633 THIRD STREET  
EUREKA, CA 95501-0417

PH (707) 443-8326  
FAX (707) 444-8330

SUBCONSULTANT

DES

SUPP

JS

DN

SJD

PK

MP

DRAWING SCALE  
AS NOTED

CITY OF ARCATA

RAIL WITH TRAIL  
CONNECTIVITY PROJECT

GENERAL  
SYMBOLS  
AND ABBREVIATIONS

JOB NUMBER  
01051-09-004

SHEET 3 OF 73

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GENERAL NOTES:

- EXISTING VEGETATION SHALL BE PROTECTED AND LEFT UNDISTURBED AS MUCH AS PRACTICAL. EXISTING NATIVE PLANTS IN AREAS TO BE DISTURBED SHALL BE REPLACED AFTER FINAL GRADING HAS OCCURRED.
- ALL UTILITIES SHOWN (IF ANY) WERE LOCATED FROM ABOVE GROUND VISUAL STRUCTURES. NO UTILITY RESEARCH WAS CONDUCTED FOR THIS SITE. NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO ANY GRADING OR EXCAVATION WITHIN THE SITE AT 1-800-227-2600. CONTACT ADJACENT PROPERTY OWNERS TO DETERMINE IF THERE ARE ANY UTILITIES TO CONSIDER.
- NATIVE TOPSOIL THAT IS EXCAVATED TO BE SEGREGATED AND STOCKPILED ON SITE FOR RE-USE. STOCKPILES TO BE LOCATED WITHIN THE STAGING AREA WHEN PRACTICAL AND COMPLETELY WITHIN THE LIMITS OF DISTURBANCE AT ALL TIMES.
- ANY MATERIAL NOT RE-USED ON SITE SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE REGULATIONS SUCH AS COUNTY GRADING ORDINANCES AND PROJECT PERMITS. CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF MATERIALS TAKEN FROM SITE.
- ANY PUMPS USED ON-SITE (DEWATERING ETC) SHALL BE PLACED ON ABSORBENT PADS. THE CONTRACTOR SHALL HAVE SPILL CONTAINMENT MATERIALS LOCATED AT THE SITE, WITH OPERATORS TRAINED IN SPILL CONTROL PROCEDURES.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERING DISCREPANCIES, ERRORS OR OMISSIONS IN THE PLANS. PRIOR TO PROCEEDING, THE DISCREPANCY SHALL BE RESOLVED TO THE SATISFACTION OF THE ENGINEER.
- PERFORM GRADING IN ACCORDANCE WITH THE LATEST EDITION OF APPENDIX CHAPTER 33 OF THE CALIFORNIA BUILDING CODE AND APPLICABLE CITY OF ARCATA REGULATIONS.
- IN THE EVENT CULTURAL RESOURCES (I.E., HISTORICAL, ARCHAEOLOGICAL, AND PALEONTOLOGICAL RESOURCES, AND HUMAN REMAINS) ARE DISCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN A 100 FOOT RADIUS OF THE FIND. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. ADDITIONAL MITIGATION MAY BE REQUIRED BY THE COUNTY PER THE ARCHEOLOGIST'S RECOMMENDATIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL ALSO NOTIFY THE COUNTY CORONER.
- SHOULD GRADING OPERATIONS ENCOUNTER HAZARDOUS MATERIALS, OR WHAT APPEAR TO BE HAZARDOUS MATERIALS, STOP WORK IN THE AFFECTED AREA IMMEDIATELY AND CONTACT 911 OR THE APPROPRIATE AGENCY FOR FURTHER INSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING AND ENCROACHMENT PERMITS INCLUDING AN ENCROACHMENT PERMIT FROM CALTRANS FOR WORK IN THE STATE ROW.
- ALL STORM DRAIN PIPE SHALL BE CORRUGATED ADS N-12 HDPE OR EQUAL MEETING THE REQUIREMENTS OF SECTION 64 OF THE CALTRANS STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE ON THE PLANS.

TRAFFIC CONTROL NOTES:

- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO BE APPROVED BY ENGINEER, SEE PROJECT SPECIFICATIONS FOR MORE INFORMATION.
- PROPOSED TEMPORARY LANE AND SHOULDER CLOSURE TRAFFIC CONTROL TO FOLLOW CURRENT EDITION OF CALTRANS MANUAL OF TRAFFIC CONTROLS AND IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS OR AS REQUIRED BY THE CALTRANS ENCROACHMENT PERMIT, SEE NOTE 10.

TOPOGRAPHIC SURVEY NOTES:

- TOPOGRAPHIC DATA IS BASED ON A FIELD SURVEY CONDUCTED BY GUTIERREZ LAND SURVEYING. ADDITIONAL SURVEY INFORMATION INCORPORATED INTO THE BASEMAP FROM PRIOR SURVEYS BY CALTRANS AND THE CITY OF ARCATA. CONTOUR INTERVAL = 1 FOOT.
- PROPERTY LINES, RIGHT-OF-WAY LINES, AND EASEMENT LINES SHOWN ON PLANS ARE NOT THE PRODUCT OF A BOUNDARY SURVEY AND ARE APPROXIMATE BASED ON ASSESSOR'S PARCEL MAPS JUNE 2010.

EROSION & SEDIMENT CONTROL NOTES:

- SEE SHEET ER-1.0 AND ER-2.0 FOR EROSION CONTROL NOTES AND DETAILS.

CONSTRUCTION NOTES:

- ALL IN-WATER (& NEAR SHORE PILE INSTALLATIONS TO OCCUR BETWEEN JULY 1 AND SEPTEMBER 31 OR AS REQUIRED BY PROJECT PERMITS.
- ALL PILE INSTALLATIONS TO OCCUR DURING LOW TIDES. CONTRACTOR SHALL SUBMIT SCHEDULE TO ENGINEER FOR APPROVAL.
- COMPLETELY ISOLATE PILES FROM FLOWING WATER BY DEWATERING THE AREA AROUND THE PILE.
- SOUND ATTENUATION FOR IMPACT HAMMERING TO BE A BUBBLE CURTAIN SURROUNDING THE PILE THAT WILL DISTRIBUTE SMALL AIR BUBBLES AROUND 100% OF THE PILING PERIMETER FOR THE FULL DEPTH OF THE WATER COLUMN TO DAMPEN SOUND PRESSURE WAVES TO A SINGLE STRIKE PEAK THRESHOLD  $\leq 206$  DECIBLES AND  $\leq 183$  DECIBLES SEL FOR CUMULATIVE STRIKES.
- EXISTING PILES TO BE LEFT IN PLACE AND CUT OFF ABOVE THE WATER SURFACE AS NEEDED TO ACCOMMODATE THE NEW STRUCTURE:  
-INSTALL A FLOATING SURFACE BOOM TO CAPTURE FLOATING SURFACE DEBRIS.  
-KEEP ALL EQUIPMENT OUT OF THE WATER, GRIP PILES ABOVE THE WATERLINE.  
-SEND CUT PILES, SURFACE DEBRIS, CONTAMINATED SUPPLIES, ETC. TO AN APPROPRIATELY PERMITTED UPLAND DISPOSAL SITE.  
-FISH CAPTURE AND REMOVAL MUST BE COMPLETED IN AN AREA THAT ISOLATES IT FROM THE ACTIVE CHANNEL;  
-A SUPERVISORY FISH BIOLOGIST EXPERIENCED WITH WORK AREA ISOLATION (AND COMPETENT TO ENSURE THE SAFE CAPTURE, HANDLING AND RELEASE OF ALL FISH) WILL SUPERVISE THIS PART OF THE ACTION AND COMPLETE A FISH SALVAGE FORM TO BE SUBMITTED WITH THE ACTION COMPLETION REPORT;  
-ANY FISH TRAPPED WITHIN THE ISOLATED WORK AREA MUST BE CAPTURED AND RELEASED USING A TRAP, SEINE, OR OTHER METHODS AS PRUDENT TO MINIMIZE THE RISK OF INJURY, THEN RELEASED AT A SAFE RELEASE SITE.
- ALL DISCHARGE WATER CREATED BY CONSTRUCTION MUST BE TREATED USING THE BEST AVAILABLE TECHNOLOGY APPLICABLE TO REMOVE DEBRIS, NUTRIENTS, SEDIMENT, PETROL AND OTHER POLLUTANTS; DO NOT ALLOW ANY POLLUTANTS, CONTAMINATED WATER, SILT, WELDING SLAG, SANDBLASTING ABRASIVE, ETC. TO CONTACT ANY WATERBODY, WETLAND, OR STREAM CHANNEL BELOW ORDINARY HIGH WATER.
- DO NOT BUILD TEMPORARY ACCESS ROUTES FOR MOTORIZED EQUIPMENT ON STEEP SLOPES OR ANYWHERE WITH A LIKELIHOOD OF EXCESSIVE EROSION;  
-USE EXISTING ROUTES TO MINIMIZE SOIL DISTURBANCE AND COMPACTION WITHIN 150 FEET OF ANY WATERBODY;  
-WHEN CONSTRUCTION IS COMPLETED, OBLITERATE ALL TEMPORARY ACCESS ROUTES, STABILIZE THE SOIL AND RESTORE THE VEGETATION;  
-IN WET OR FLOODED AREAS, RESTORE TEMPORARY ROUTES BEFORE THE END OF THE IN-WATER WORK PERIOD.
- SELECT AND OPERATE HEAVY EQUIPMENT TO MINIMIZE ADVERSE EFFECTS ON THE ENVIRONMENT (E.G., MINIMALLY-SIZED, LOW PRESSURE TIRES, MINIMAL HARD TURN PATHS FOR TRACKED VEHICLES, TEMPORARY MATS OR PLATES WITHIN WET AREAS OR SENSITIVE SOILS).
- ALL VEHICLES AND HEAVY EQUIPMENT WILL BE (I) STORED, FUELED AND MAINTAINED IN A VEHICLE STAGING AREA AT LEAST 150 FEET FROM ANY WATERBODY, OR IN AN ISOLATED HARD ZONE SUCH AS A PAVED PARKING LOT; (II) INSPECTED DAILY FOR FLUID LEAKS BEFORE LEAVING THE VEHICLE STAGING AREA FOR OPERATION WITHIN 50 FEET OF ANY WATERBODY; AND (III) STEAM-CLEANED BEFORE OPERATION BELOW ORDINARY HIGH WATER, AND AS OFTEN AS NECESSARY DURING OPERATION TO REMOVE ALL EXTERNAL OIL, GREASE, MUD, AND OTHER VISIBLE CONTAMINANTS.
- GENERATORS, CRANES AND ANY OTHER STATIONARY EQUIPMENT OPERATING WITHIN 150 FEET OF ANY WATERBODY WILL BE MAINTAINED TO PREVENT LEAKS AND SPILLS FROM ENTERING THE WATER.
- BEFORE MAJOR CONSTRUCTION, FLAG THE BOUNDARIES OF CLEARING LIMITS TO MINIMIZE SOIL AND VEGETATION DISTURBANCE, AND ENSURE THAT ALL TEMPORARY EROSION CONTROLS ARE IN PLACE AND FUNCTIONAL.
- DURING SITE PREPARATION, CONSERVE LARGE WOOD, VEGETATION, TOPSOIL AND CHANNEL MATERIALS. LEAVE NATIVE MATERIALS WHERE THEY ARE FOUND. IN AREAS TO BE CLEARED, CLIP VEGETATION AT GROUND LEVEL TO RETAIN ROOT MASS AND ENCOURAGE REESTABLISHMENT OF NATIVE VEGETATION.
- USE OF TREATED OR PRESERVED WOOD PRODUCTS MAY NOT BE USED BELOW ORDINARY HIGH WATER, OR AS PART OF AN IN-WATER OR OVERWATER STRUCTURE, EXCEPT AS DESCRIBED BELOW:  
a. PESTICIDE-TREATED WOOD SHIPPED TO THE PROJECT AREA MUST BE STORED OUT OF CONTACT WITH STANDING WATER AND WET SOIL, AND PROTECTED FROM PRECIPITATION

- EACH LOAD AND PIECE OF PESTICIDE-TREATED WOOD MUST BE VISUALLY INSPECTED AND REJECTED FOR USE IN OR ABOVE AQUATIC ENVIRONMENTS IF VISIBLE RESIDUE, BLEEDING OF PRESERVATIVE, PRESERVATIVE-SATURATED SAWDUST, CONTAMINATED SOIL, OR OTHER MATTER IS PRESENT
- USE PREFABRICATION TO MINIMIZE CUTTING, DRILLING AND FIELD TREATMENTS
- WHEN FIELD-FABRICATION IS NECESSARY, ALL CUTTING, DRILLING AND WOOD PRESERVATIVE TREATMENT MUST OCCUR BEYOND THE ORDINARY HIGH WATER LINE
- USE TARPS, PLASTIC TUBS OR SIMILAR DEVICES TO CONTAIN THE BULK OF ANY FABRICATION DEBRIS, AND WIPE OFF ANY EXCESS FIELD PRESERVATIVE
- ALL PESTICIDE-TREATED WOOD STRUCTURES MUST BE DESIGNED TO AVOID OR MINIMIZE IMPACTS AND ABRASION THAT WOULD DEPOSIT PESTICIDE-TREATED WOOD DEBRIS INTO RIPARIAN OR AQUATIC HABITATS;
- PESTICIDE-TREATED WOOD MAY BE USED TO CONSTRUCT A BRIDGE, OVERWATER OR IN-WATER STRUCTURE IF ALL SURFACES EXPOSED TO PRECIPITATION OR WAVES ARE COATED WITH PAINT, OPAQUE STAIN, OR BARRIER THAT WILL BE MAINTAINED FOR THE LIFE OF THE PROJECT. COATINGS AND ANY PAINT-ON FIELD TREATMENT MUST BE CAREFULLY APPLIED AND CONTAINED TO REDUCE CONTAMINATION. SURFACES THAT ARE NOT EXPOSED TO PRECIPITATION OR WAVE ATTACK, SUCH AS PARTS OF A BRIDGE COMPLETELY COVERED BY THE ROADWAY SURFACE, ARE EXEMPT FROM THIS REQUIREMENT.

- PESTICIDE-TREATED WOOD MUST NOT FALL INTO THE WATER OR REMOVED IMMEDIATELY IF IT DOES; AFTER REMOVAL, PLACE WOOD DEBRIS IN A DRY STORAGE SITE BEYOND ORDINARY HIGH WATER AND PROPERLY DISPOSE OF OFFSITE AT A SUITABLE FACILITY.

DEMOLITION NOTES:

- ALL RAILROAD TIES REMOVED DURING THE COURSE OF WORK THAT ARE NOT IDENTIFIED TO BE SALVAGED AND DELIVERED TO THE CITY SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT AN APPROPRIATELY LICENSED FACILITY.
- ALL RAILS, SPIKES, PLATES, AND OTHER APPURTENANCES REMOVED DURING THE COURSE OF THE WORK SHALL BECOME THE PROPERTY OF THE CITY AND PLACED BY THE CONTRACTOR AS A SITE SELECTED BY THE CITY WITHIN THE ARCATA CITY LIMITS PRIOR TO THE START OF CONSTRUCTION.

WINZLER & KELLY

633 THIRD STREET  
EUREKA, CA 95501-0417

PH (707) 443-8326  
FAX (707) 444-8330

SUBCONSULTANT

DES

SUPV

CHK

MP

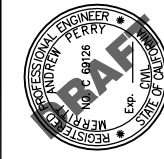
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JS

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DRAWING SCALE  
AS NOTED



CITY OF ARCATA  
RAIL WITH TRAIL  
CONNECTIVITY PROJECT

GENERAL

CONSTRUCTION NOTES

JOB NUMBER  
01051-09-004

SHEET 4 OF 73

G-4.0

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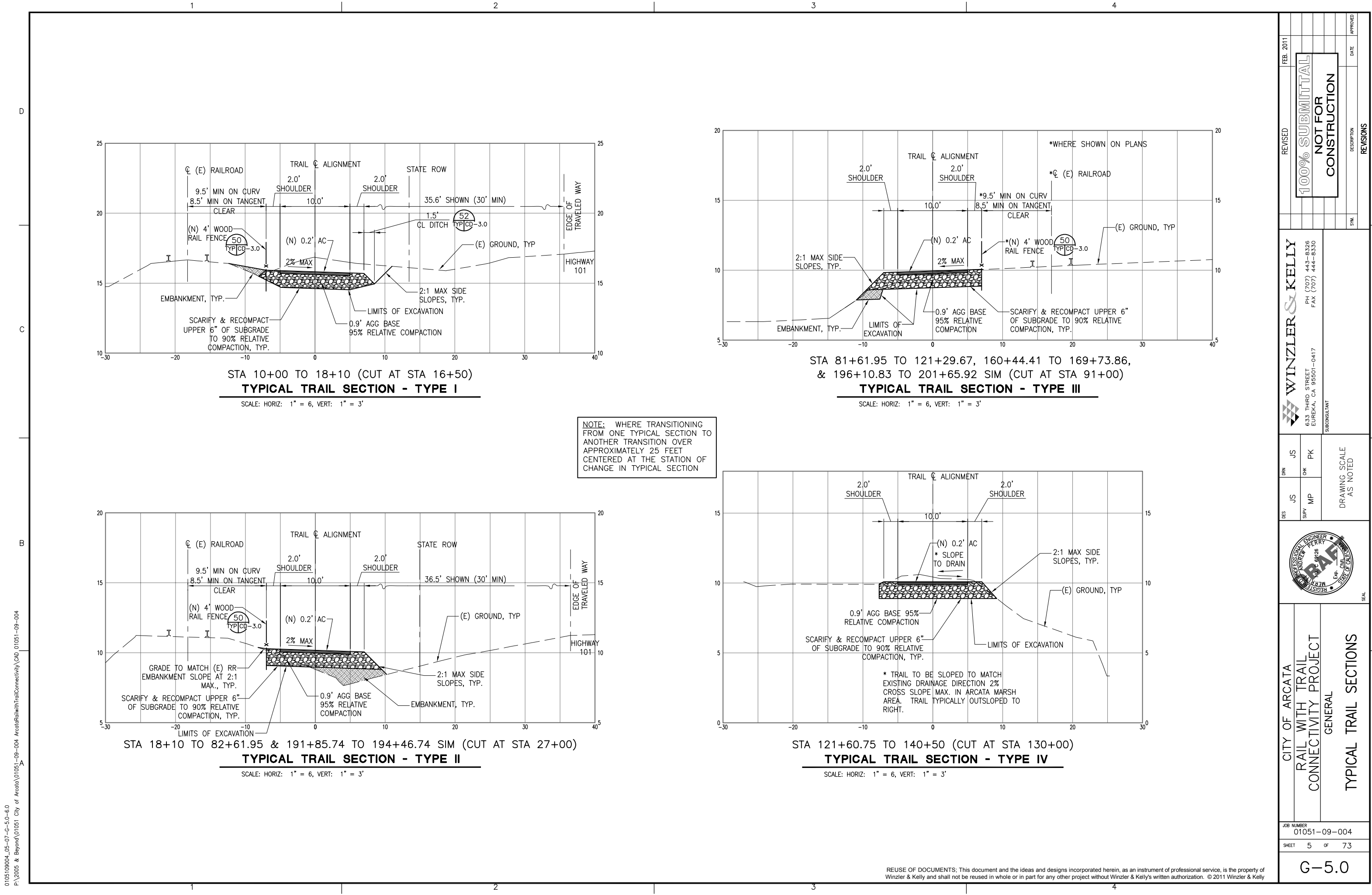
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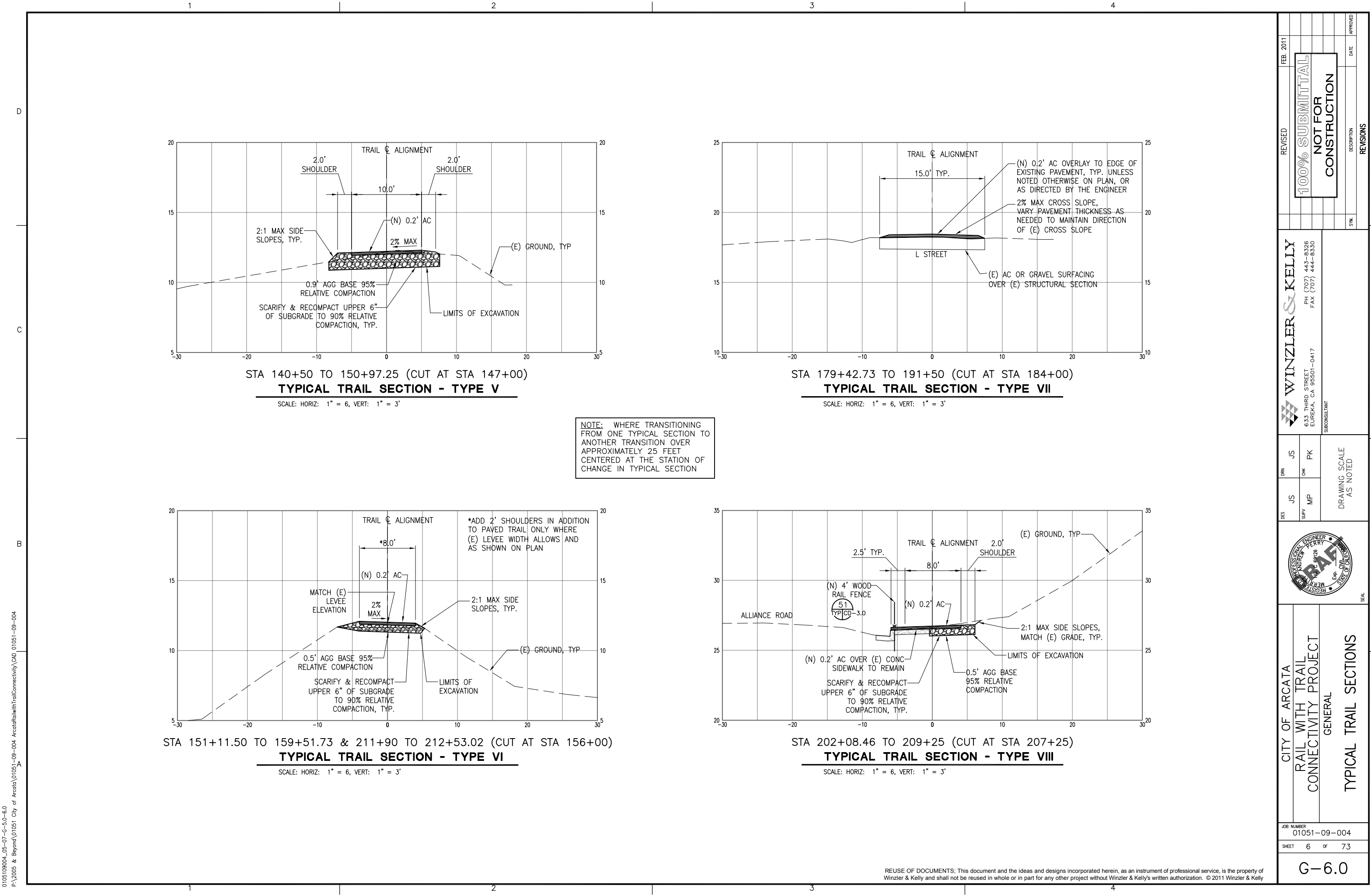
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SUPP	MP	CHK	PK
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CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT GENERAL TYPICAL TRAIL SECTIONS			
JOB NUMBER 01051-09-004			
SHEET 5 OF 73			
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FAX (707) 444-8330

SUBCONSULTANT

DESIGN

JS

CHK

PK

DRAWING SCALE  
AS NOTED

DES

JS

SUPV

MP

PROFESSIONAL ENGINEER

ANDREW PERRY

100 C 88126

Exp. 01/01/2015

Req. 01/01/2010

SEAL

CITY OF ARCATA

RAIL WITH TRAIL  
CONNECTIVITY PROJECT

GENERAL

TYPICAL TRAIL SECTIONS

JOB NUMBER

01051-09-004

SHEET

6

OF

73

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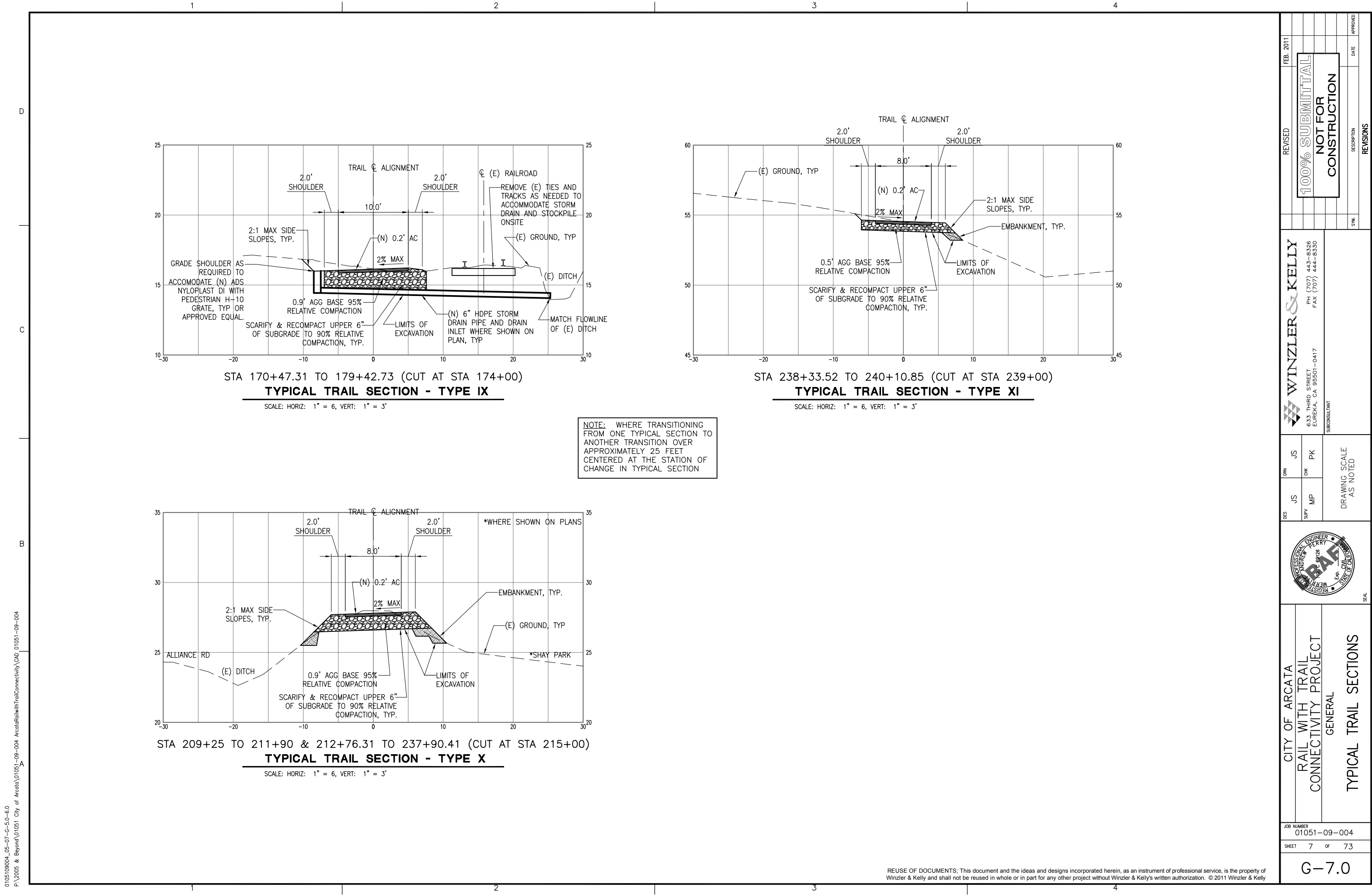
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DESCRIPTION

DATE

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REVISIONS



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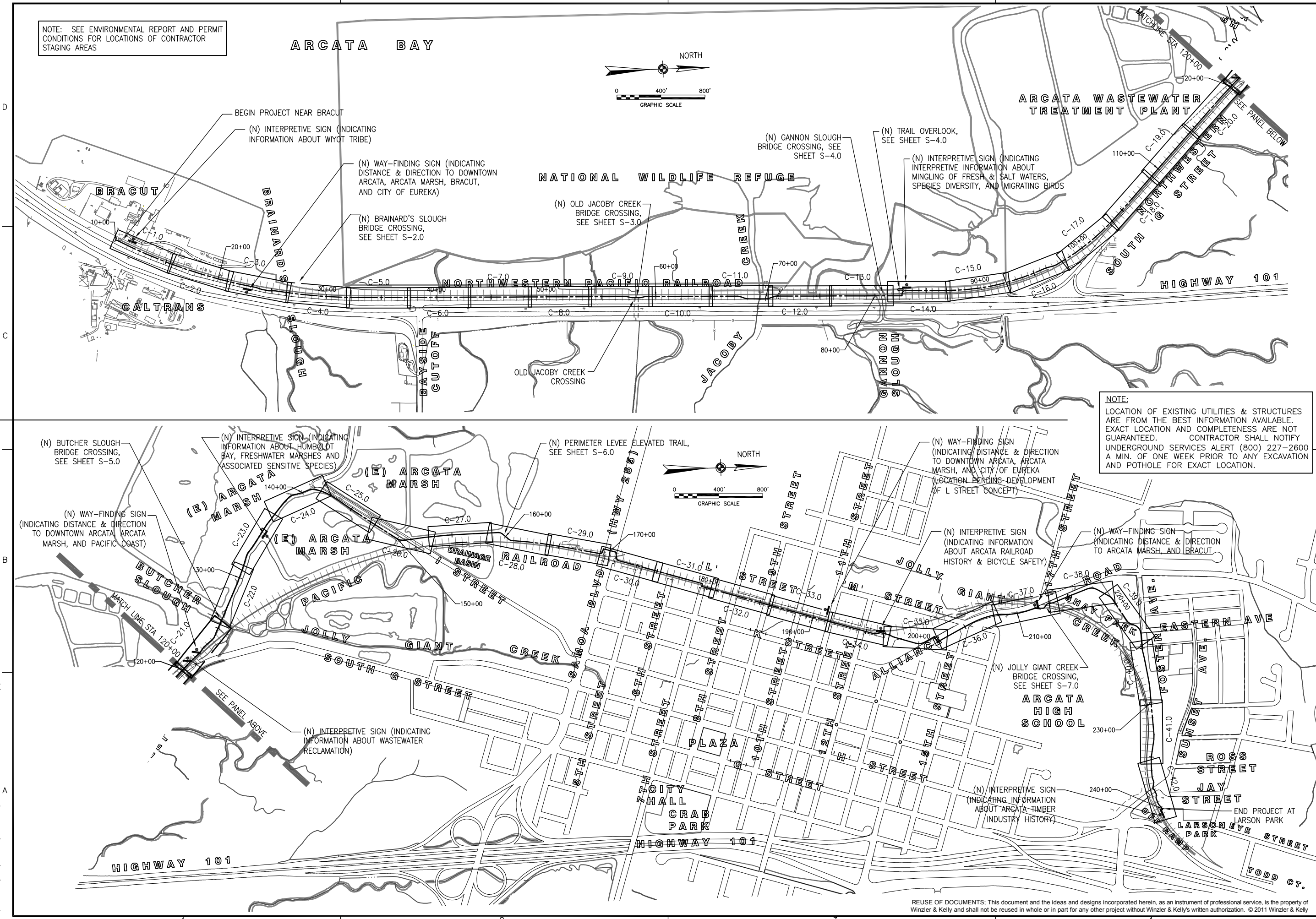
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SUBCONSULTANT		FAX (707) 444-8330		DRAWING SCALE		AS NOTED	
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SUPV	MP						
CITY OF ARCATA		RAIL WITH TRAIL		CONNECTIVITY PROJECT		GENERAL	
TYPICAL TRAIL SECTIONS		JOB NUMBER		01051-09-004		SHEET	
						7 OF 73	
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NOTE: SEE ENVIRONMENTAL REPORT AND PERMIT CONDITIONS FOR LOCATIONS OF CONTRACTOR STAGING AREAS

NOTE:  
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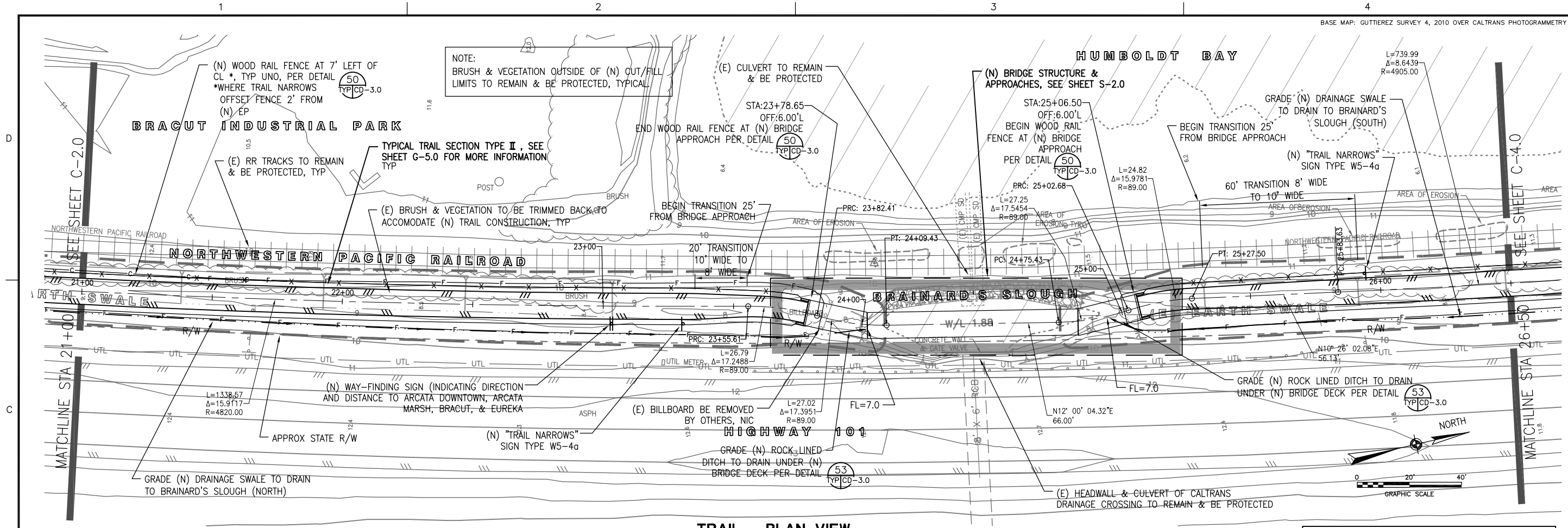
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DES	SUPP	CHK	PK
JS	MP	SJD	
DRAWING SCALE AS NOTED			
CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT GENERAL PLAN SHEET INDEX			
JOB NUMBER 01051-09-004			
SHEET 9 OF 73			
G-9.0			





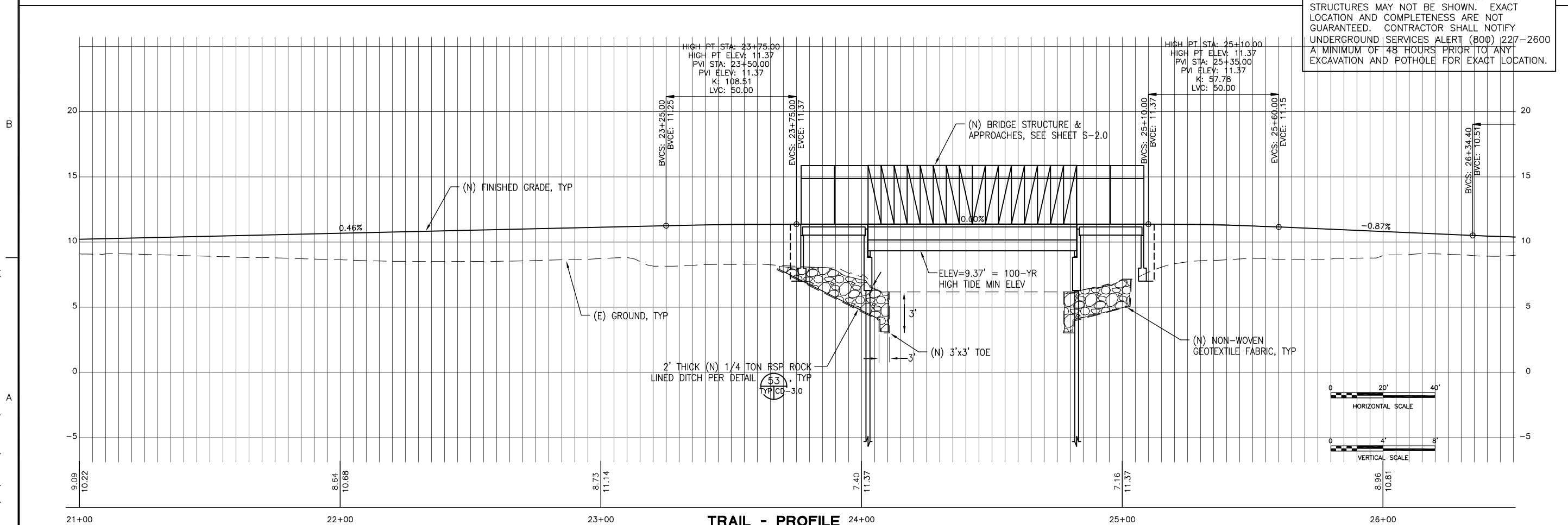


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TRAIL - PLAN VIEW

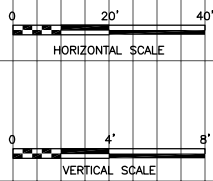
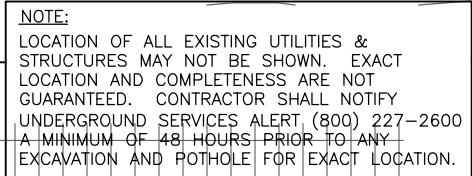
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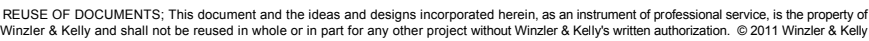
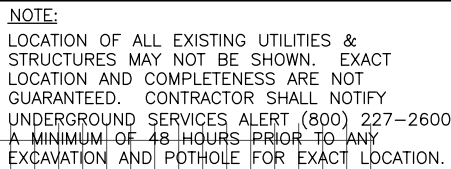
TRAIL - PROFILE

SCALE: SEE SCALE BAR

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DES	JS	CHK	PK
SUPP	JS	MP	PK
DRAWING SCALE AS NOTED			
CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL PLAN & PROFILE STA 21+00 TO STA 26+50			
JOB NUMBER 01051-09-004			
SHEET 12 OF 73			
C-3.0			







SHEET C-7.0

MATCHLINE STA 43+0.00

~~NORTHWESTERN PACIFIC RAILROAD~~

SCALE: SEE SCALE BAR

NOTE:  
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STRUCTURES MAY NOT BE SHOWN. EXACT  
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UNDERGROUND SERVICES ALERT (800) 227-2600  
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ACQUISITION

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NOTE:  
BRUSH & VEGETATION OUTSIDE OF (N) CUT/FILL LIMITS  
TO REMAIN & BE PROTECTED, TYPICAL.

NATIONAL WILDLIFE REFUGE

(E) BRUSH & VEGETATION TO BE TRIMMED BACK  
TO ACCOMODATE (N) TRAIL CONSTRUCTION, TYP

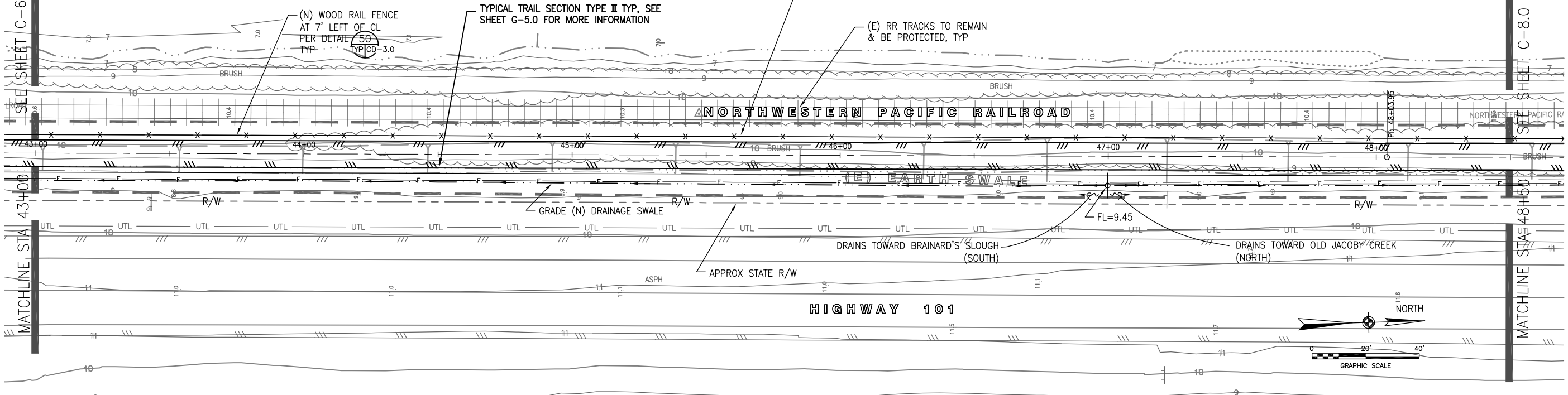
TYPICAL TRAIL SECTION TYPE II TYP, SEE  
SHEET G-5.0 FOR MORE INFORMATION

(E) RR TRACKS TO REMAIN  
& BE PROTECTED, TYP

(N) WOOD RAIL FENCE  
AT 7' LEFT OF CL  
PER DETAIL 50  
TYP  
TYPICAL CD-3.0

SEE SHEET C-6.0  
MATCHLINE STA 43+00

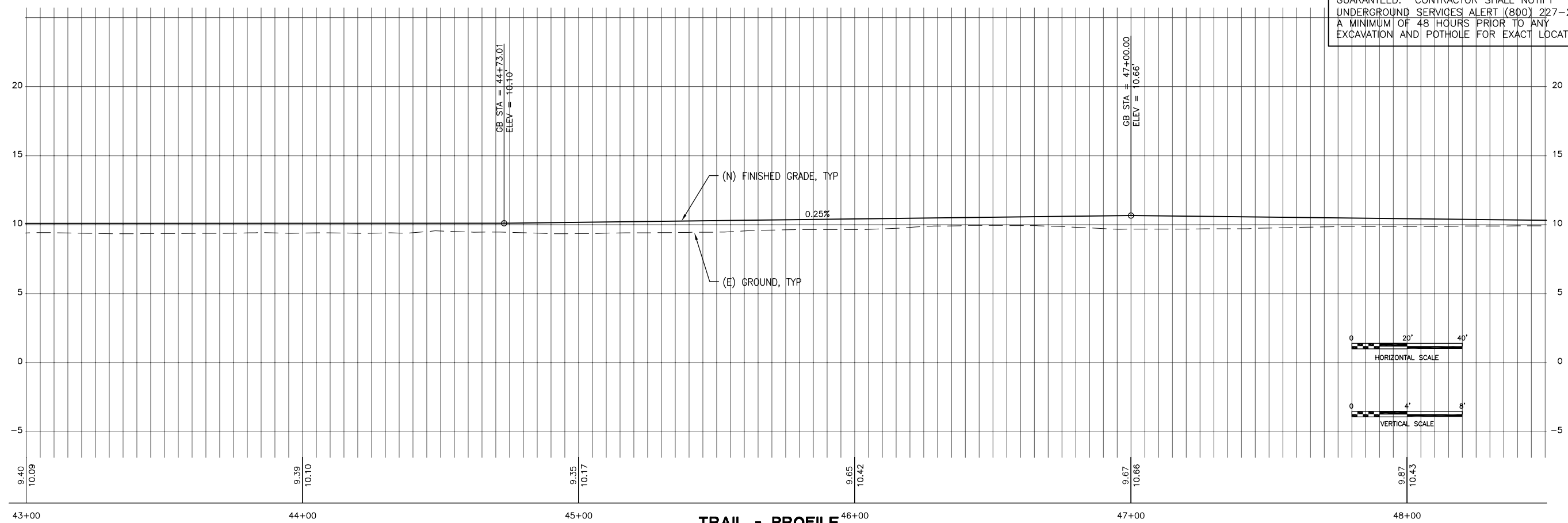
STATION 48+50  
MATCHLINE STA 48+50  
SEE SHEET C-8.0



TRAIL - PLAN VIEW

SCALE: SEE SCALE BAR


NOTE:  
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A MINIMUM OF 48 HOURS PRIOR TO ANY  
EXCAVATION AND POT HOLE FOR EXACT LOCATION.



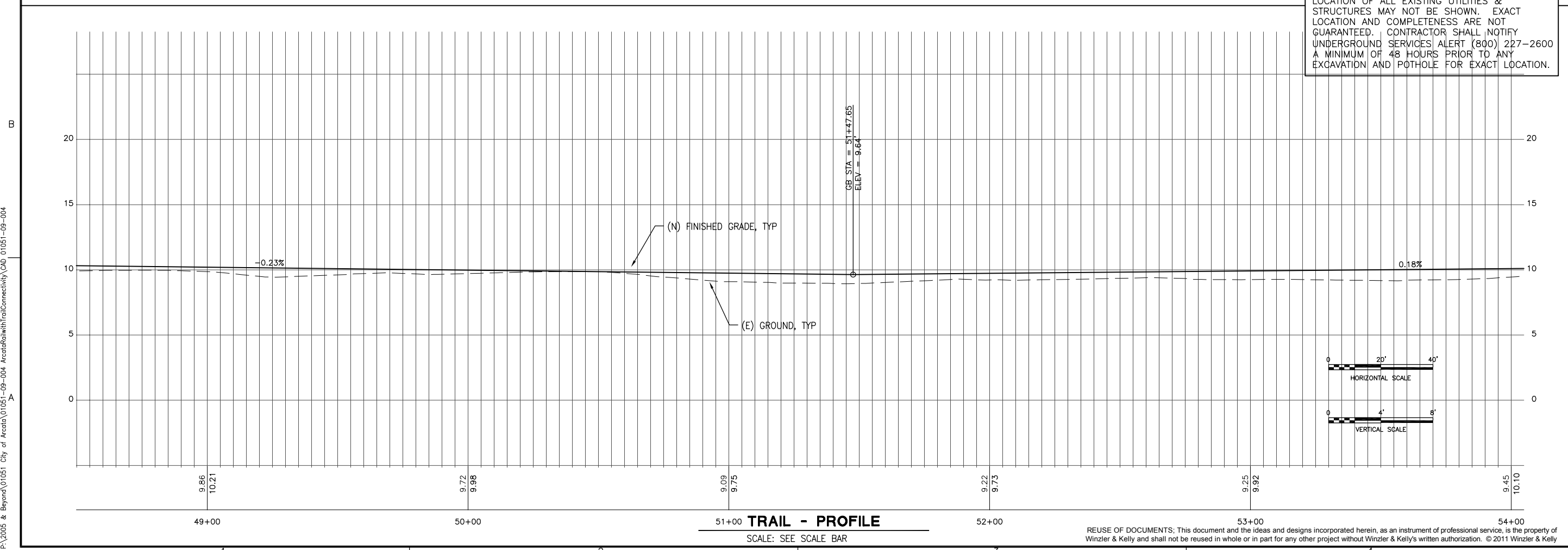
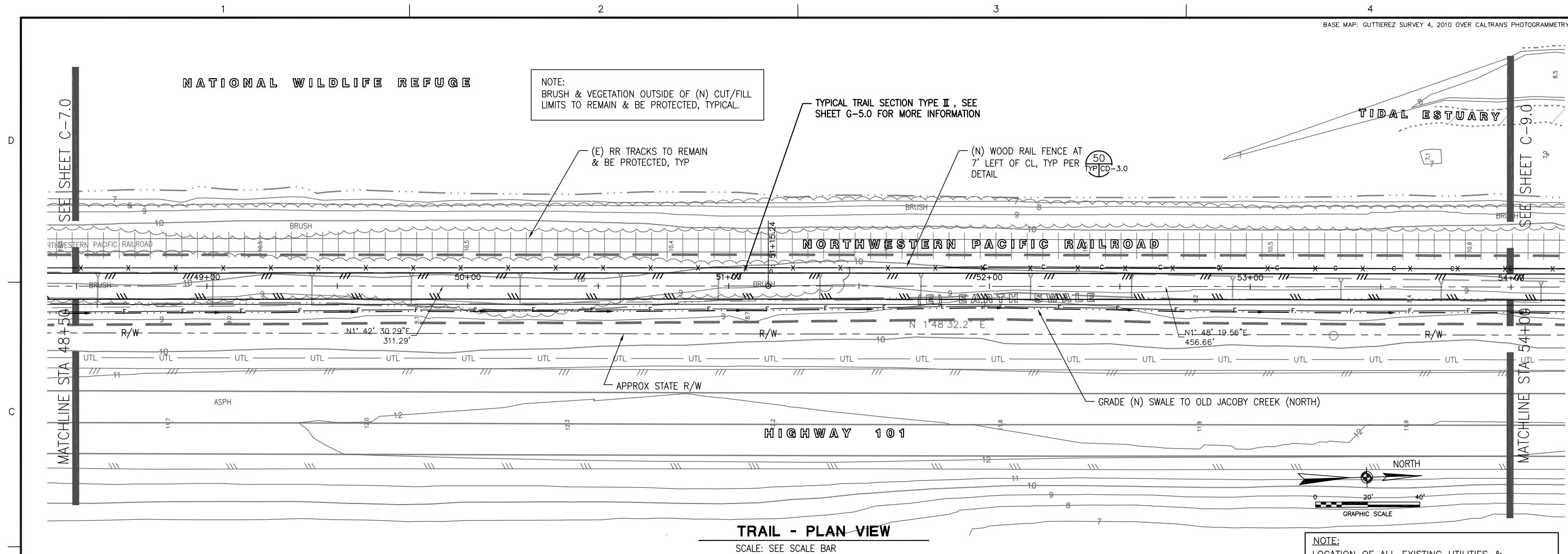
TRAIL - PROFILE

SCALE: SEE SCALE BAR



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DES	JS	DRN	JS
SUPV	MP	CHK	PK
DRAWING SCALE AS NOTED			
			
CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL PLAN & PROFILE STA 43+00 TO STA 48+50			
JOB NUMBER 01051-09-004			
SHEET 16 OF 73			
C-7.0			



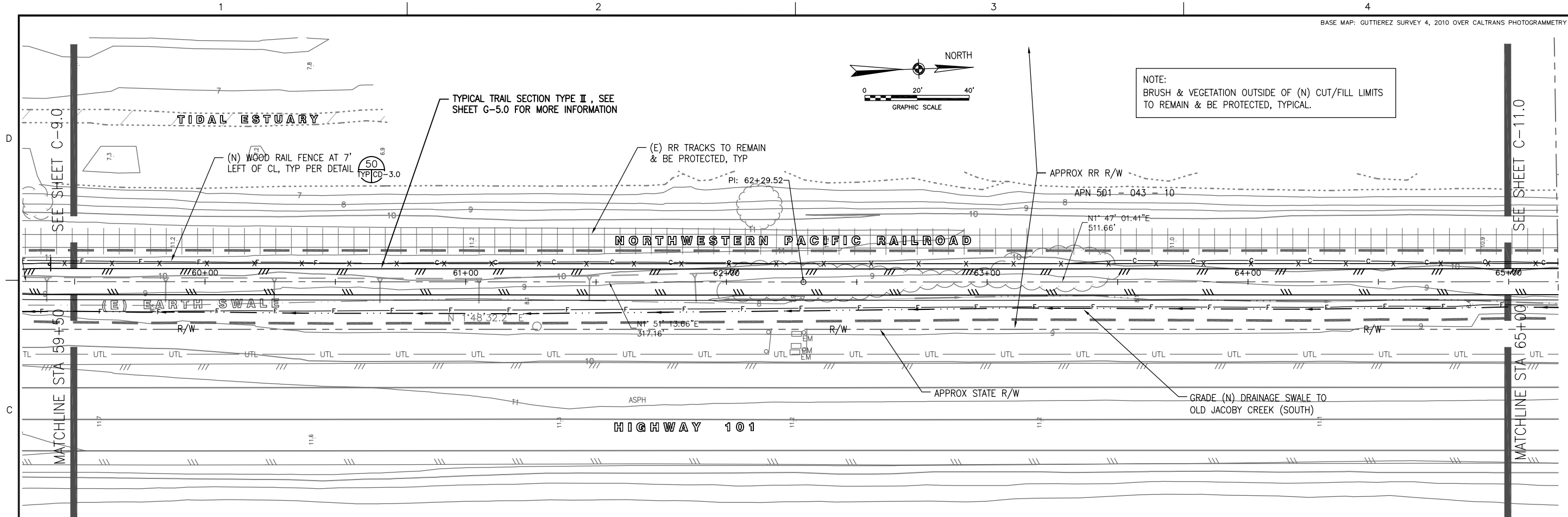


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C-8.0	SHEET	17	OF	73
	JOB NUMBER 01051-09-004			
	CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL PLAN & PROFILE STA 48+50 TO STA 54+00			
				
DES		JS	DRN	JS
SUPV		MP	CHK	PK
DRAWING SCALE AS NOTED				
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REVISIONS				

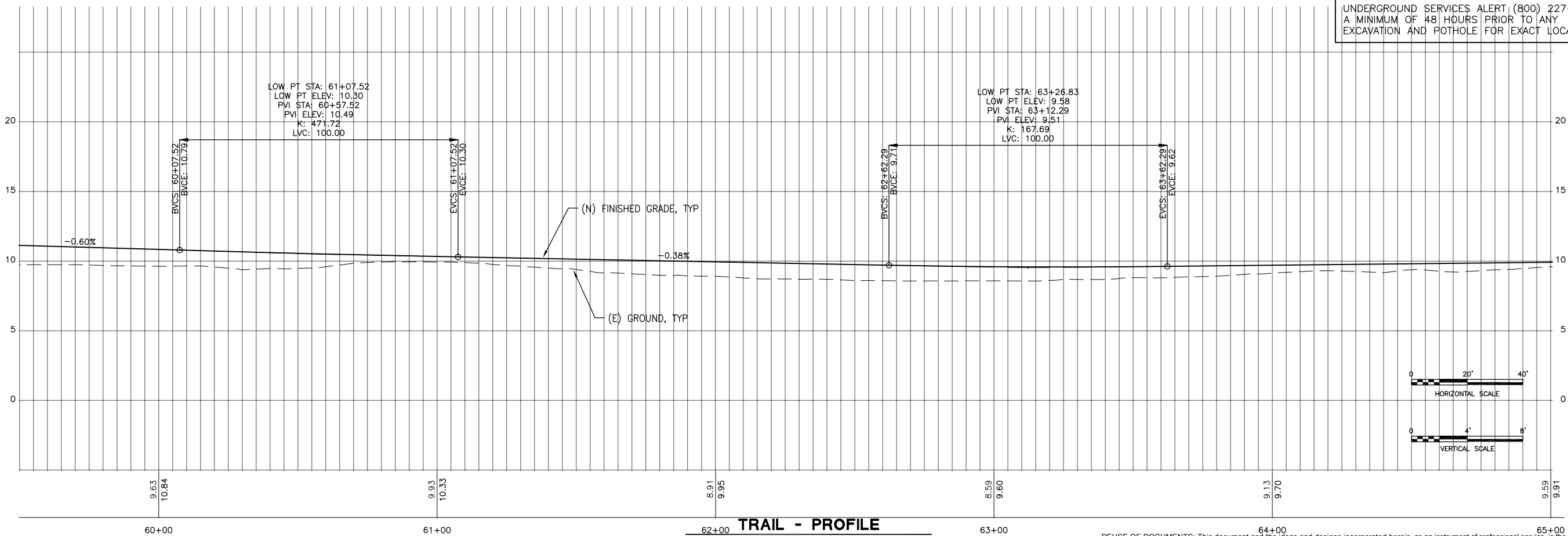


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### TRAIL - PLAN VIEW

SCALE: SEE SCALE BAR



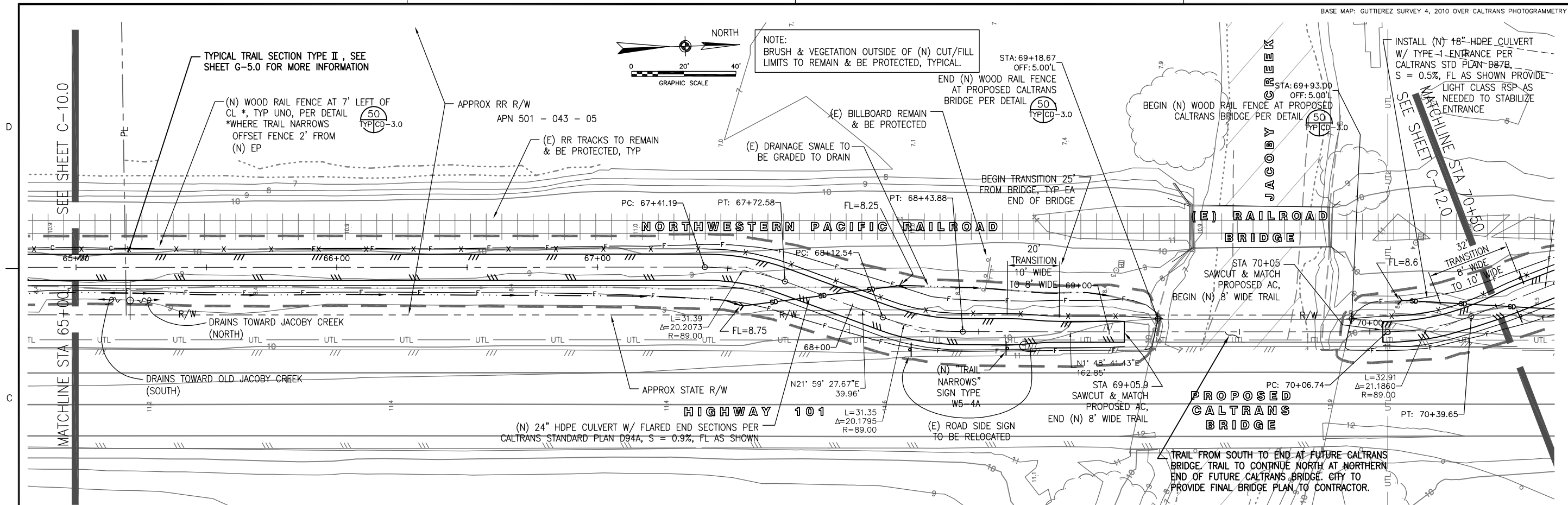
### TRAIL - PROFILE

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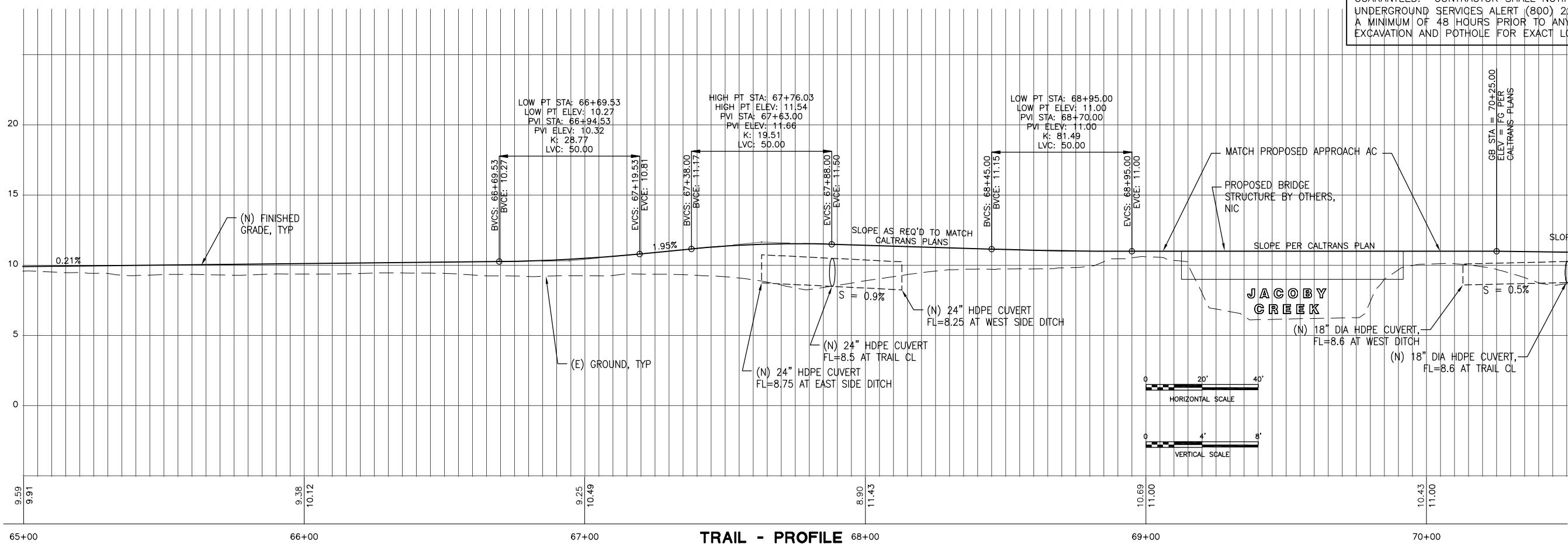
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TRAIL - PLAN VIEW

SCALE: SEE SCALE BAR



TRAIL - PROFILE

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CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL PLAN & PROFILE STA 65+00 TO STA 70+50		WINZLER & KELLY 633 THIRD STREET EUREKA, CA 95501-0417 PH (707) 443-8326 FAX (707) 444-8330 SUBCONSULTANT		100% SUBMITTAL NOT FOR CONSTRUCTION		REVISED FEB. 2011	
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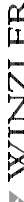


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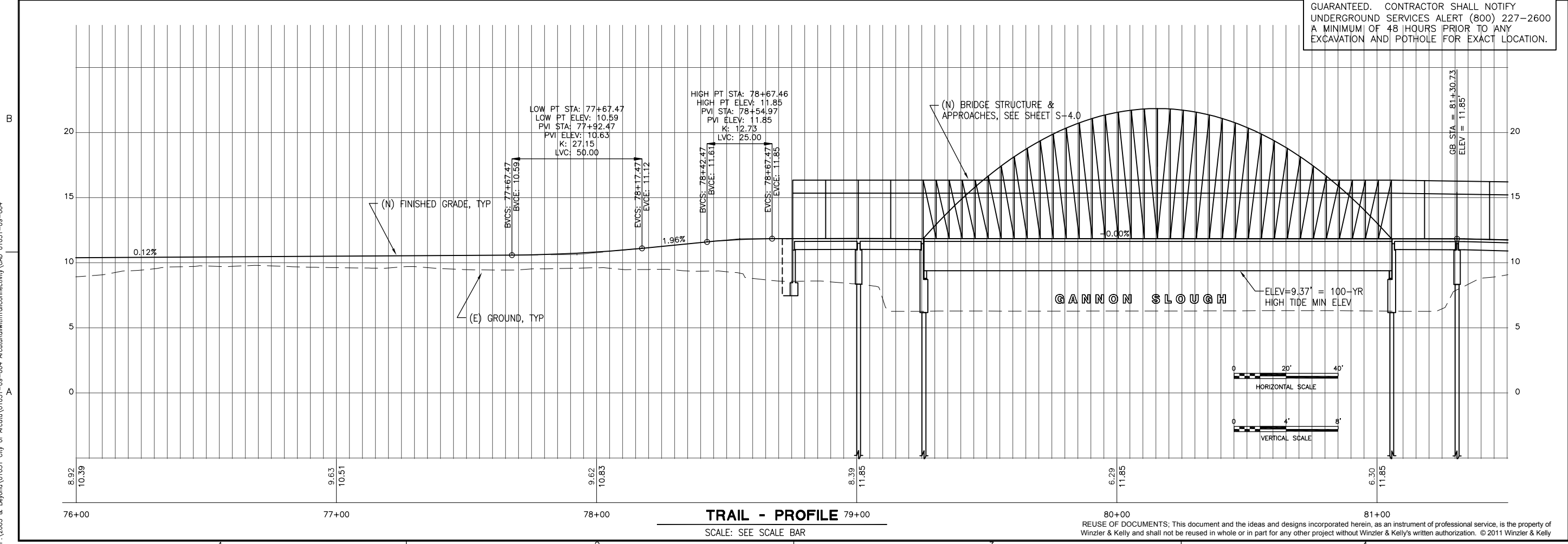
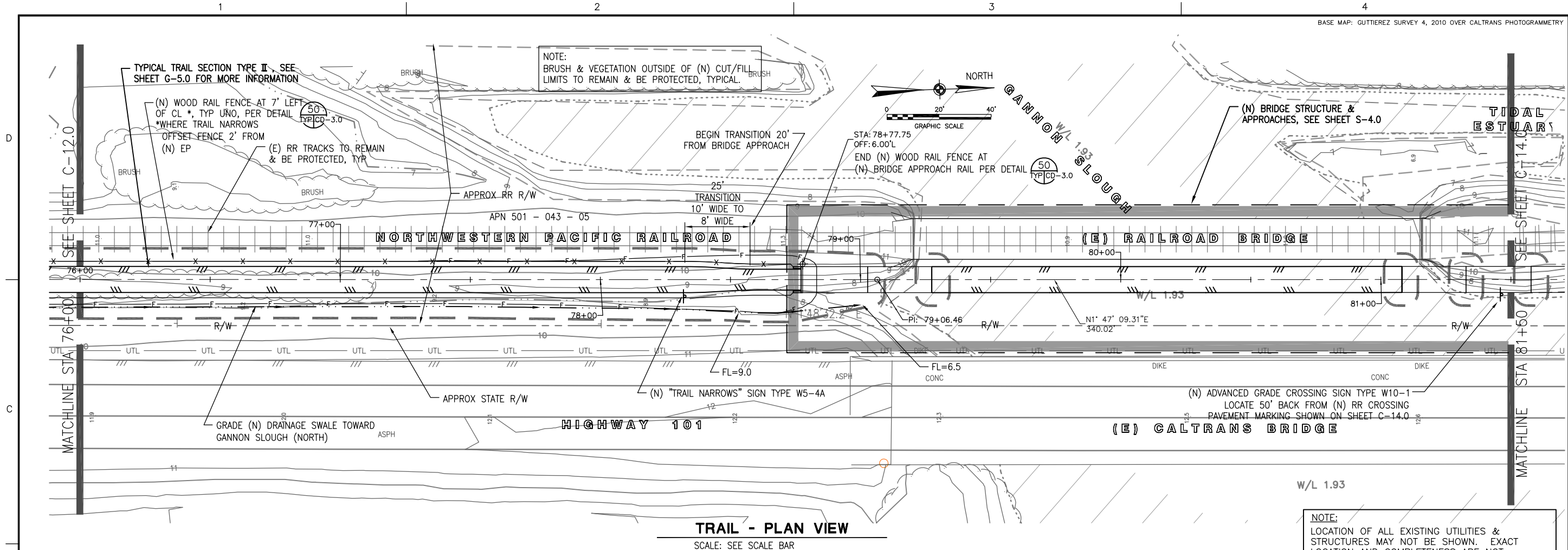
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JOB NUMBER 01051-09-004		SHEET 21 OF 73		C-12.0						



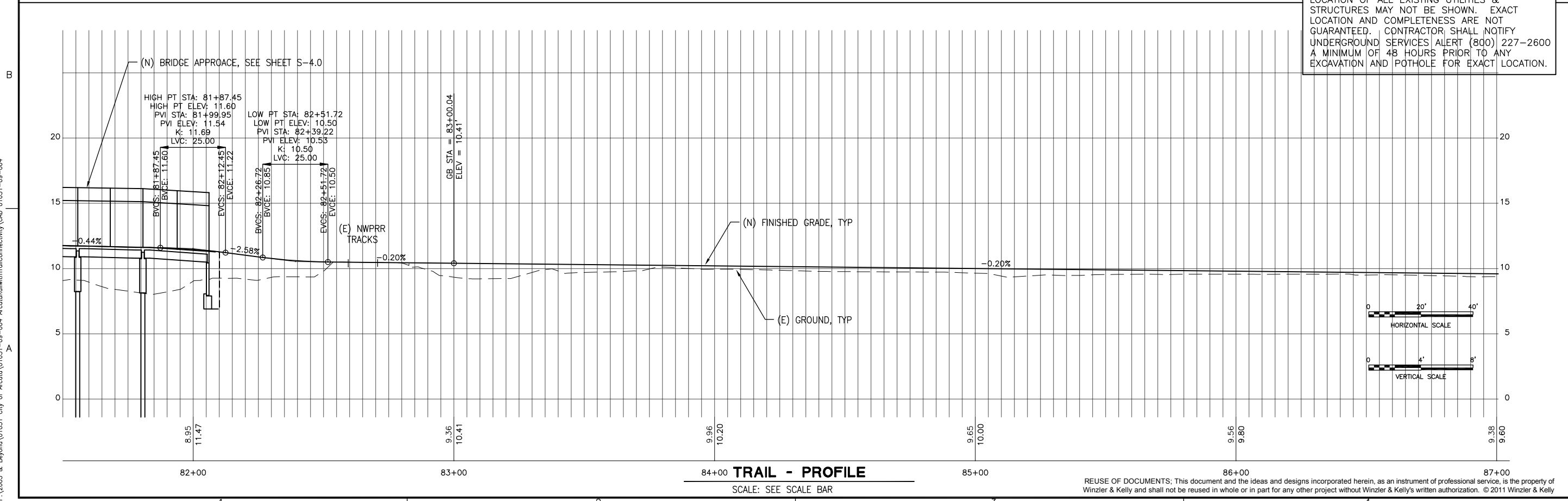
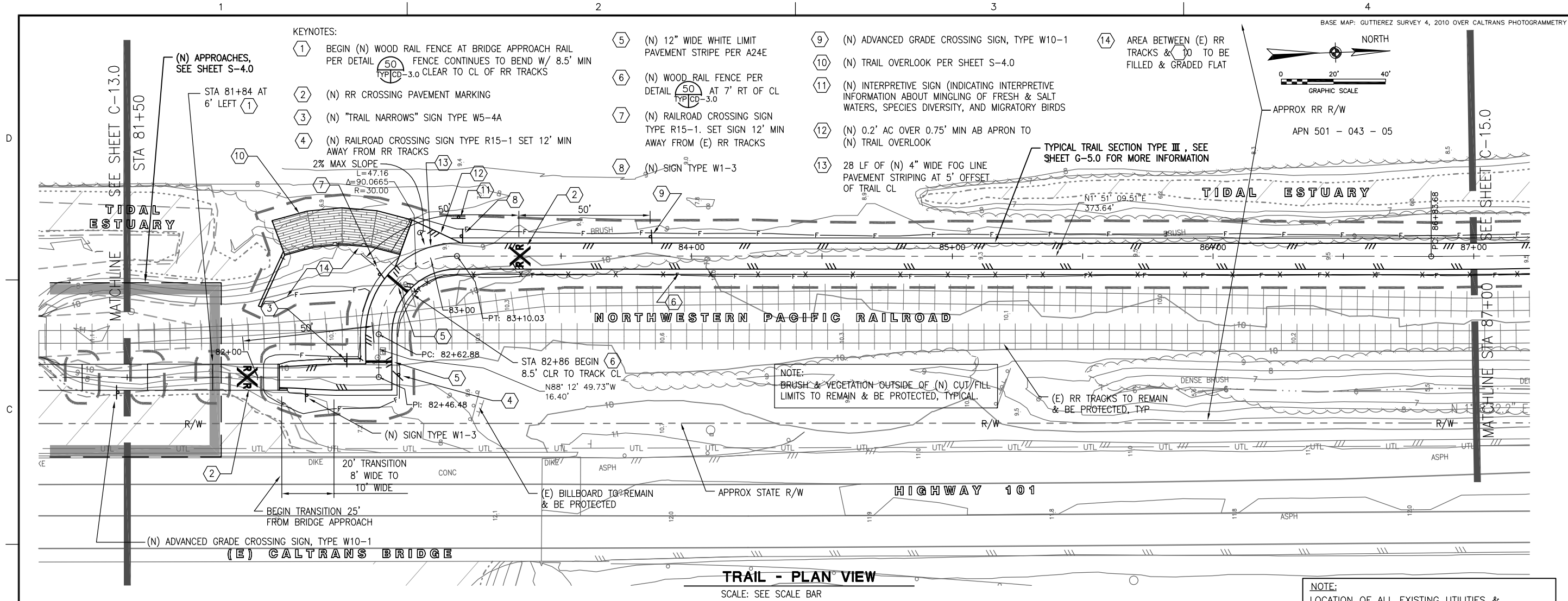
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SUPV	MP	CHK	PK
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JOB NUMBER 01051-09-004			
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CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL PLAN & PROFILE STA 81+50 TO STA 87+00			
JOB NUMBER 01051-09-004			
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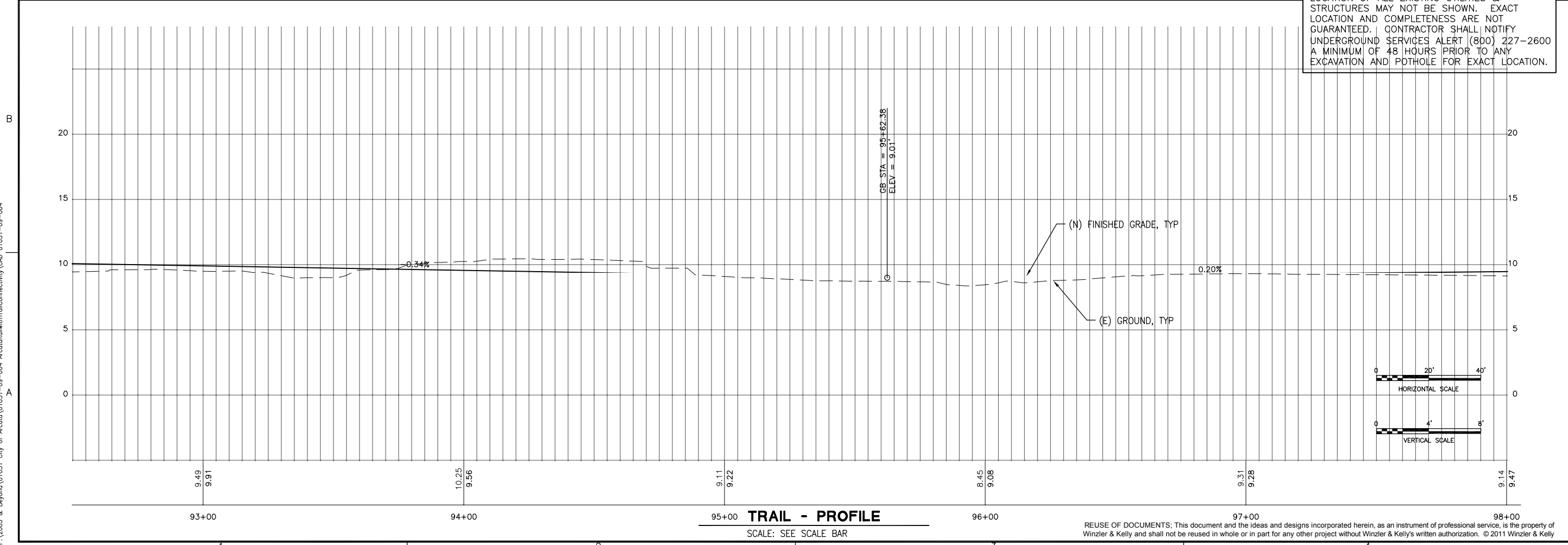
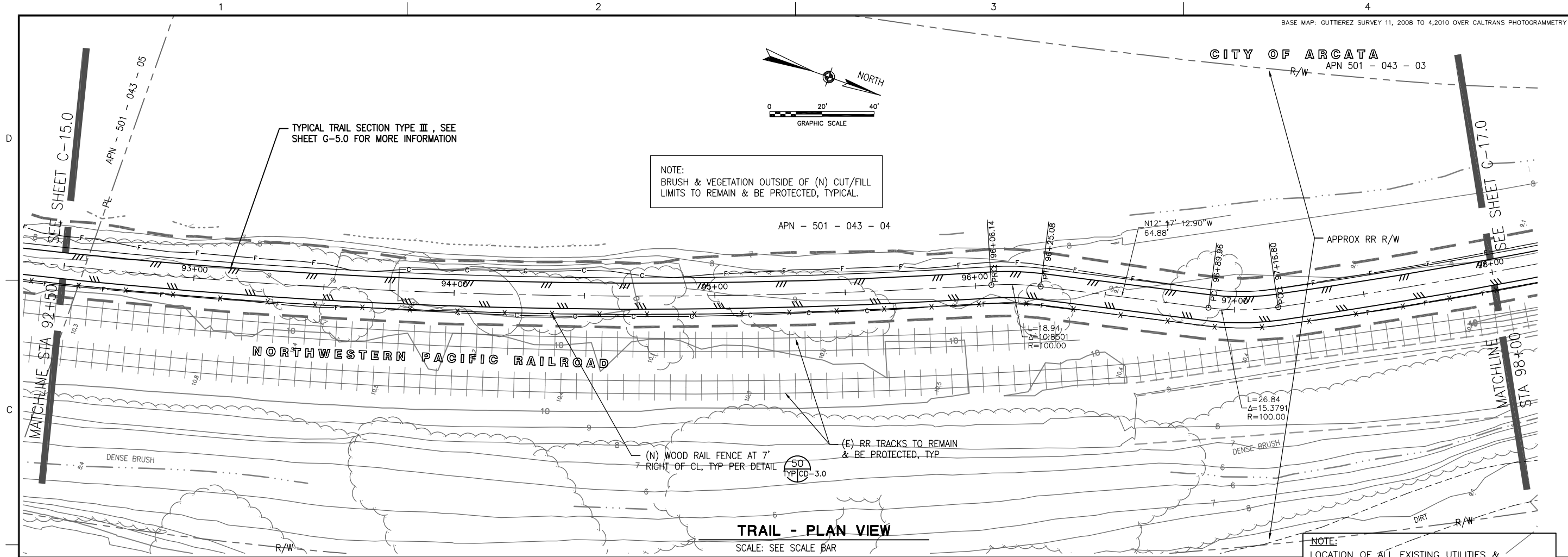
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DES		PK	
SUPP		MP	
JS		JS	
DN		DN	
DRA		DRA	
CITY OF ARCATA		CIVIL	
RAIL WITH TRAIL CONNECTIVITY PROJECT		PLAN & PROFILE STA 92+50 TO STA 98+00	
JOB NUMBER 01051-09-004		SHEET 25 OF 73	
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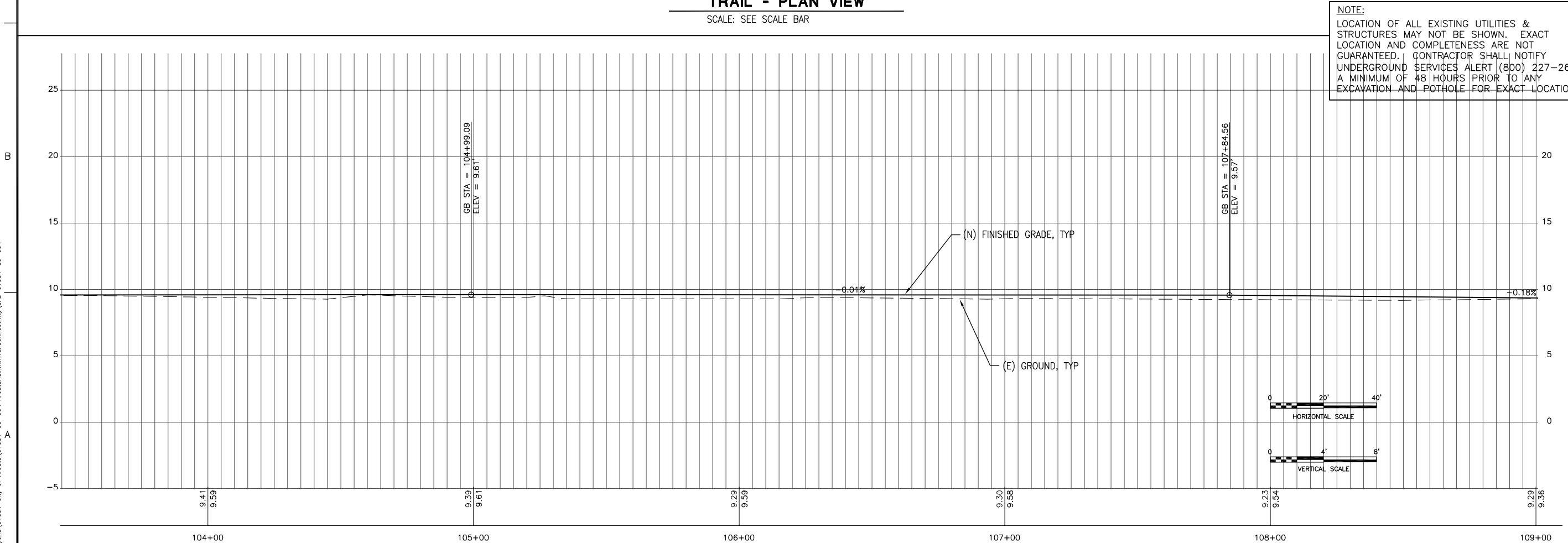
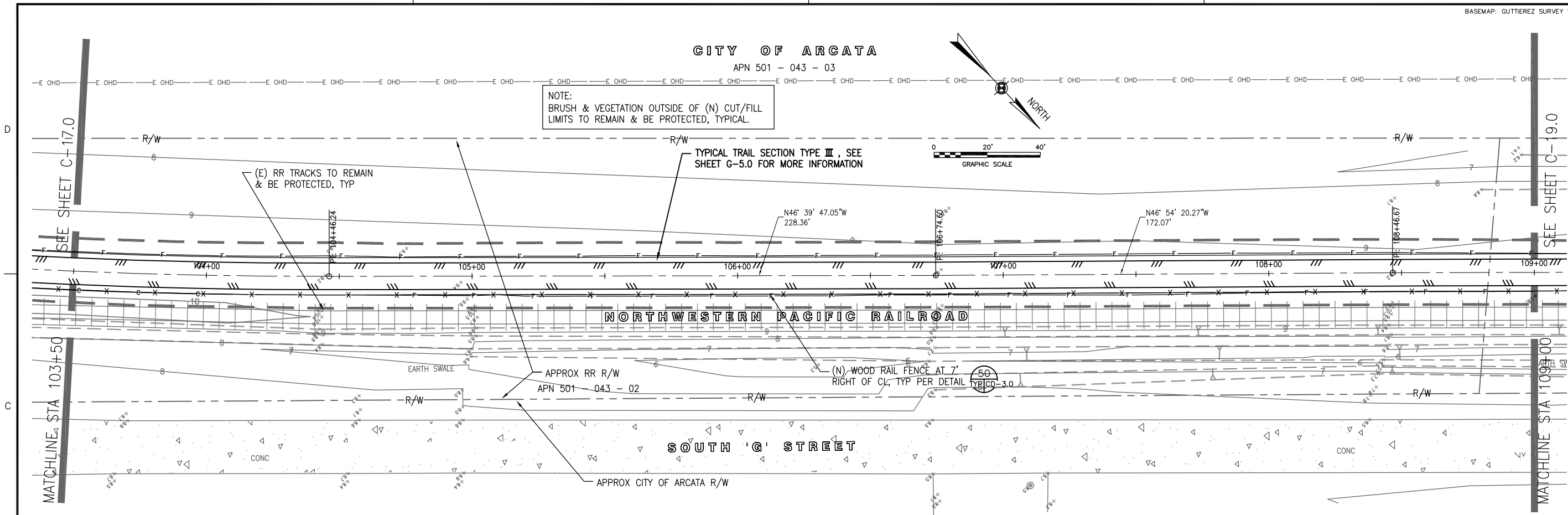
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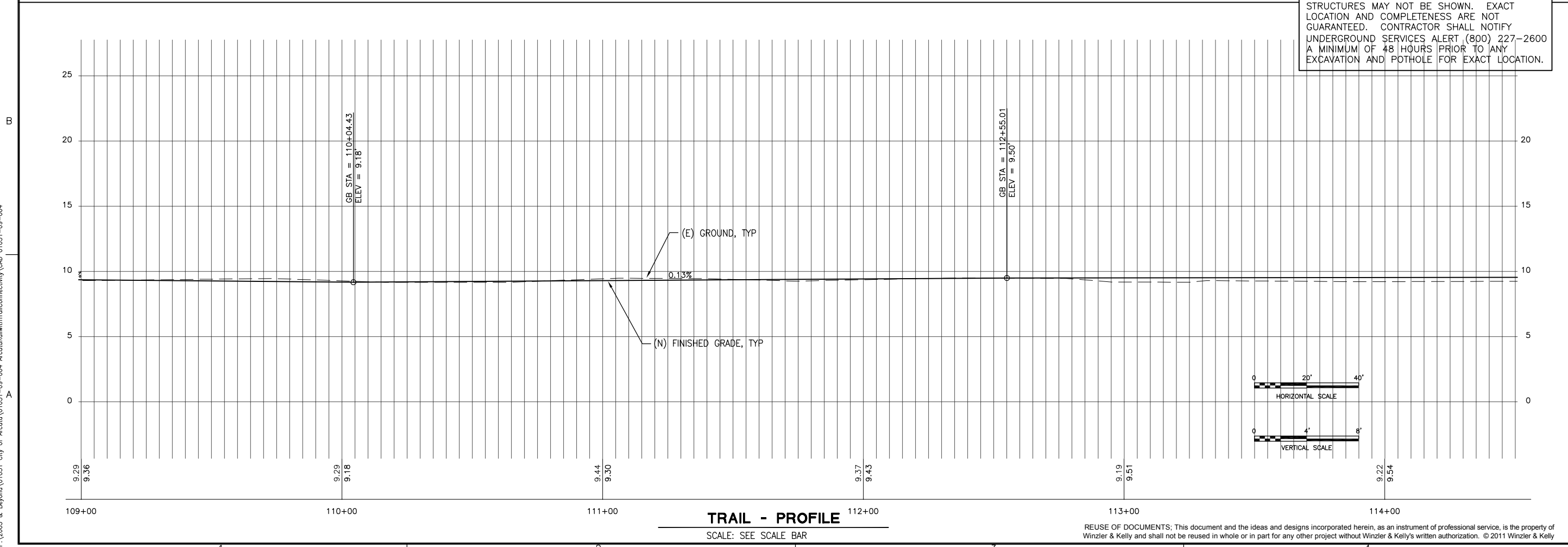
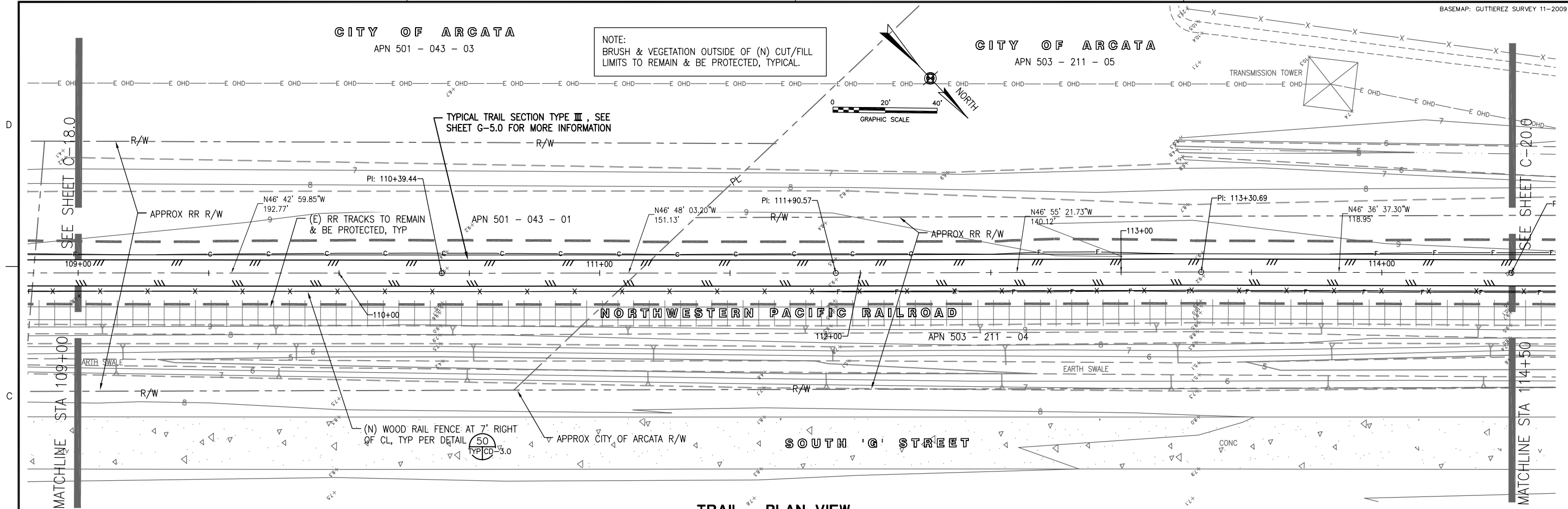


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DES	JS	DRN	JS
SUPP	MP	CHK	PK
DRAWING SCALE AS NOTED			
CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL PLAN & PROFILE STA 103+50 TO STA 109+00			
JOB NUMBER 01051-09-004			
SHEET 27 OF 73			
C-18.0			

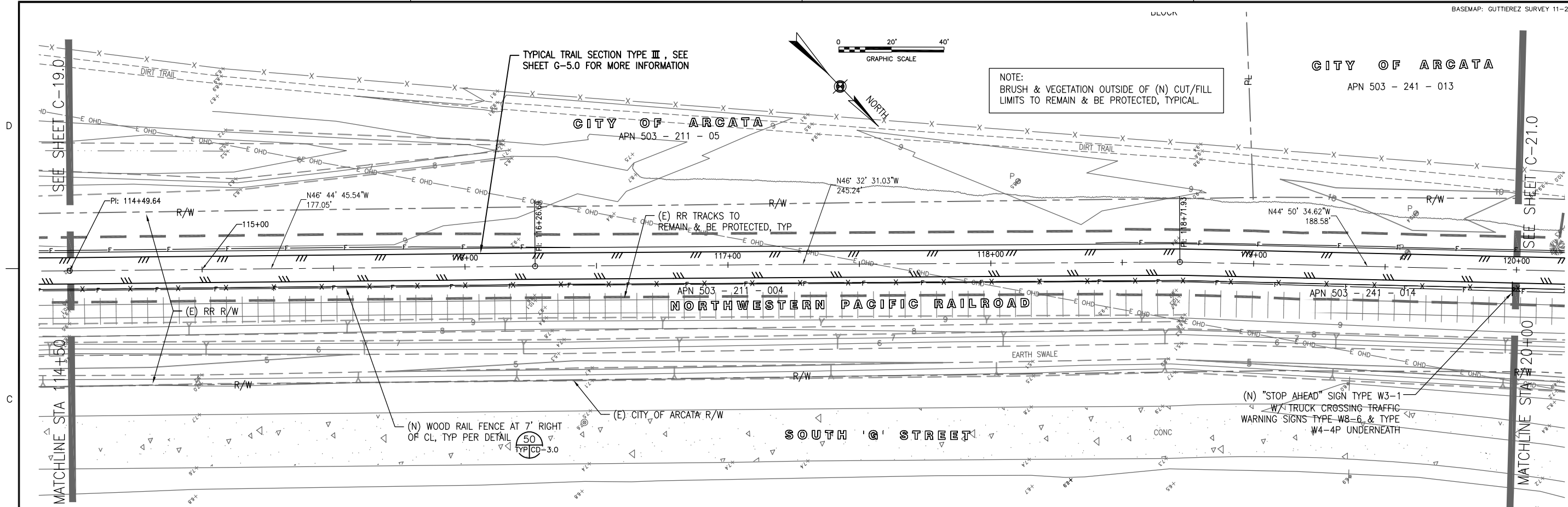


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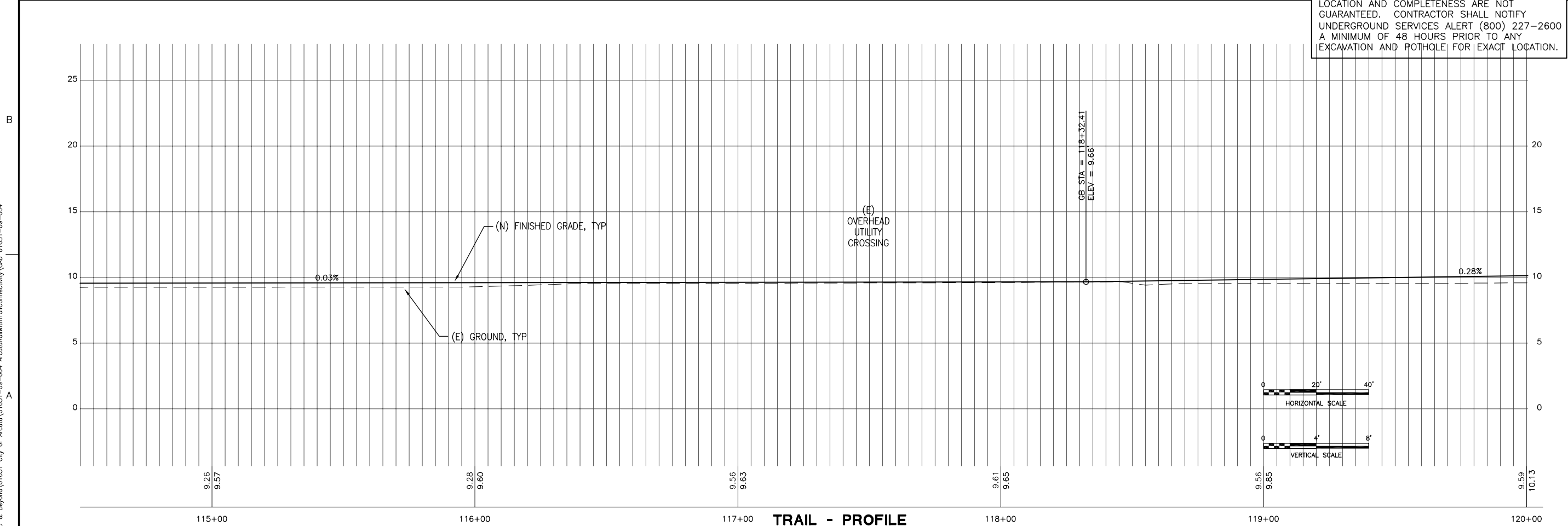
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DES	JS	CHK	PK
SUPP	JS	MP	
DRAWING SCALE AS NOTED			
CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL PLAN & PROFILE STA 109+00 TO STA 114+50			
JOB NUMBER 01051-09-004			
SHEET 28 OF 73			
C-19.0			

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TRAIL - PLAN VIEW  
SCALE: SEE SCALE BAR

NOTE:  
LOCATION OF ALL EXISTING UTILITIES & STRUCTURES MAY NOT BE SHOWN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

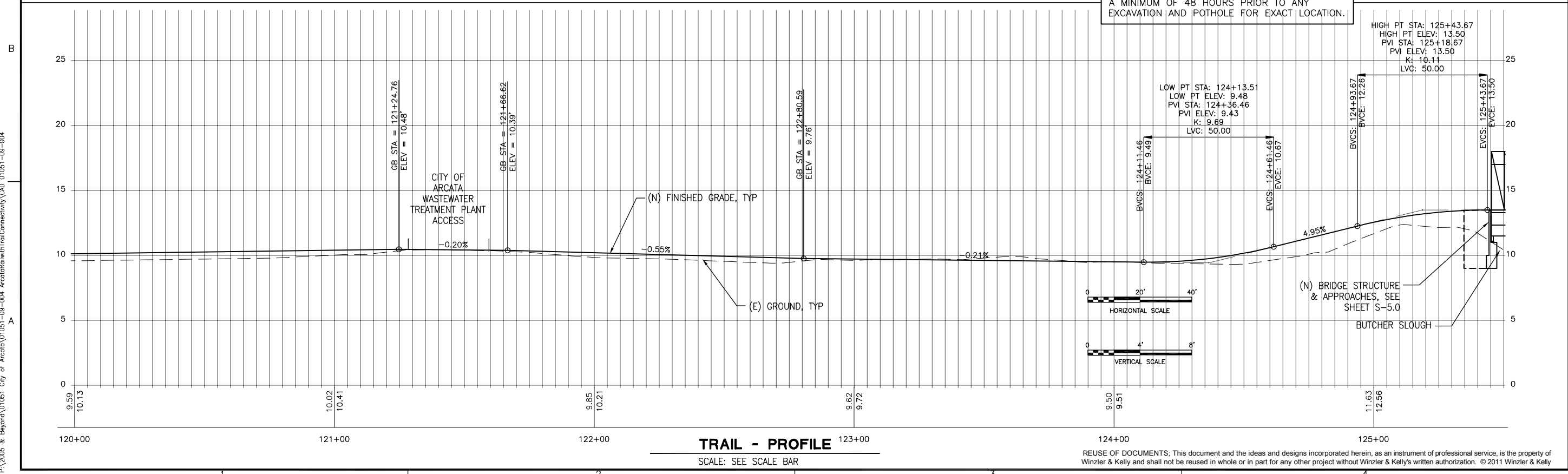
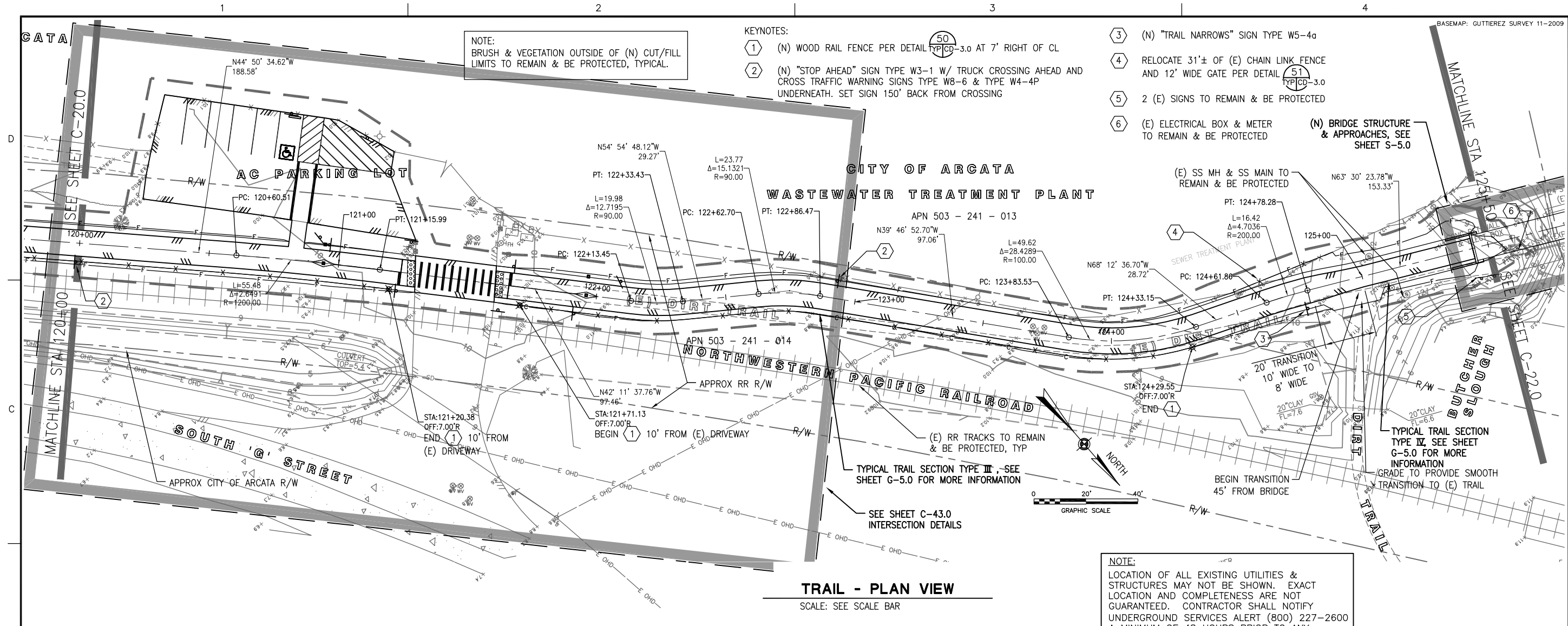


TRAIL - PROFILE  
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DES	JS	BN	JS
SUPV	MP	CHK	PK
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JOB NUMBER 01051-09-004			
SHEET 29 OF 73			
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JOB NUMBER 01051-09-004			
SHEET 30 OF 73			
C-21.0			



SCALE: SEE SCALE BAR



SCALE: SEE SCALE BAR

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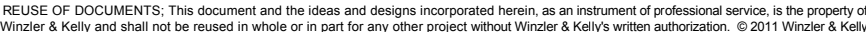
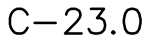
CITY OF ARCATÁ

RAIL WITH TRAIL  
CONNECTIVITY PROJECT

CIVIL

PLAN & PROFILE

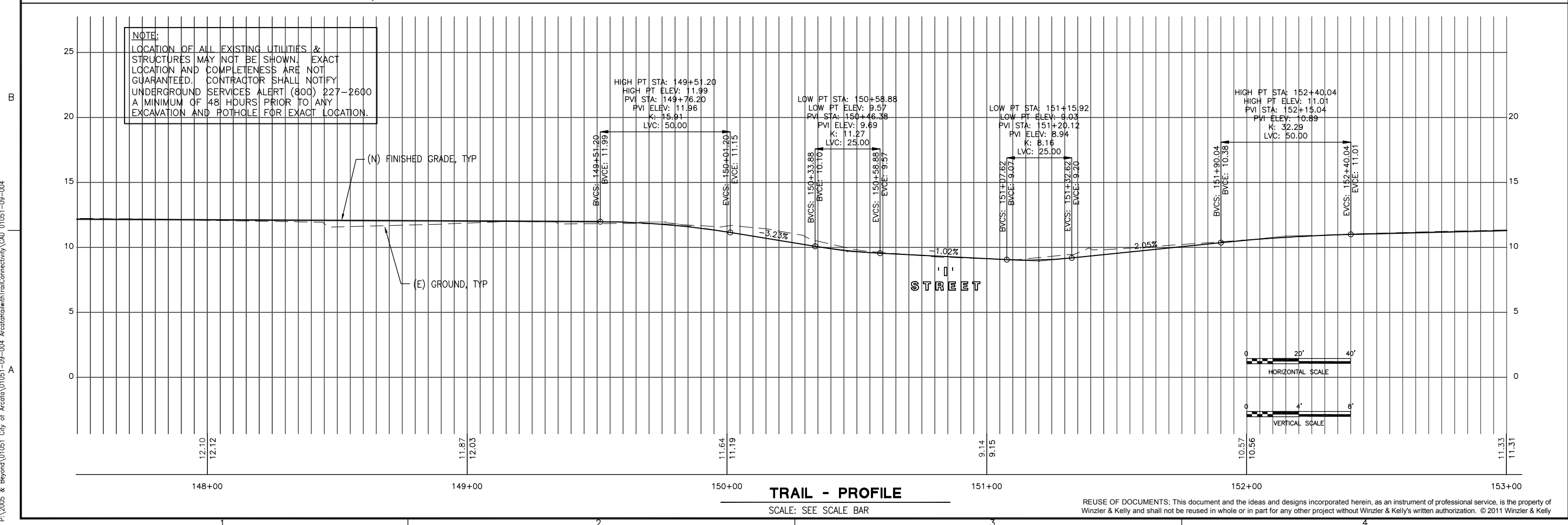
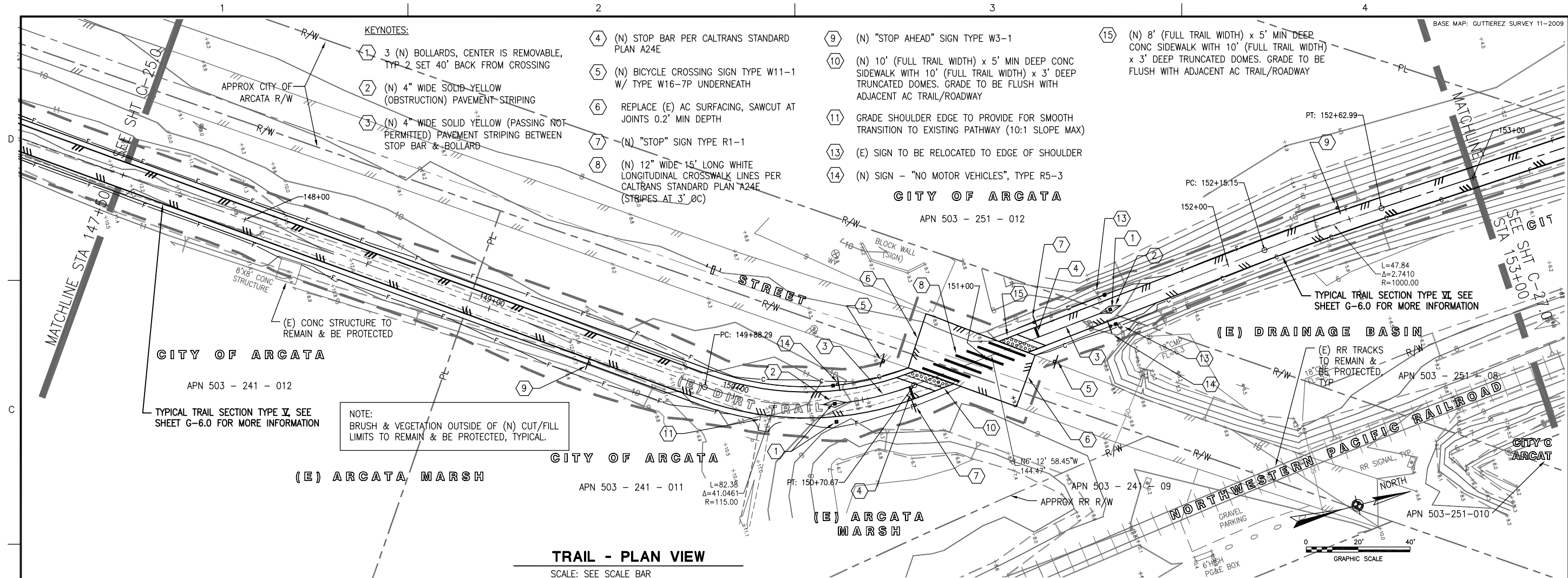
STA 125+50 TO STA 131+00











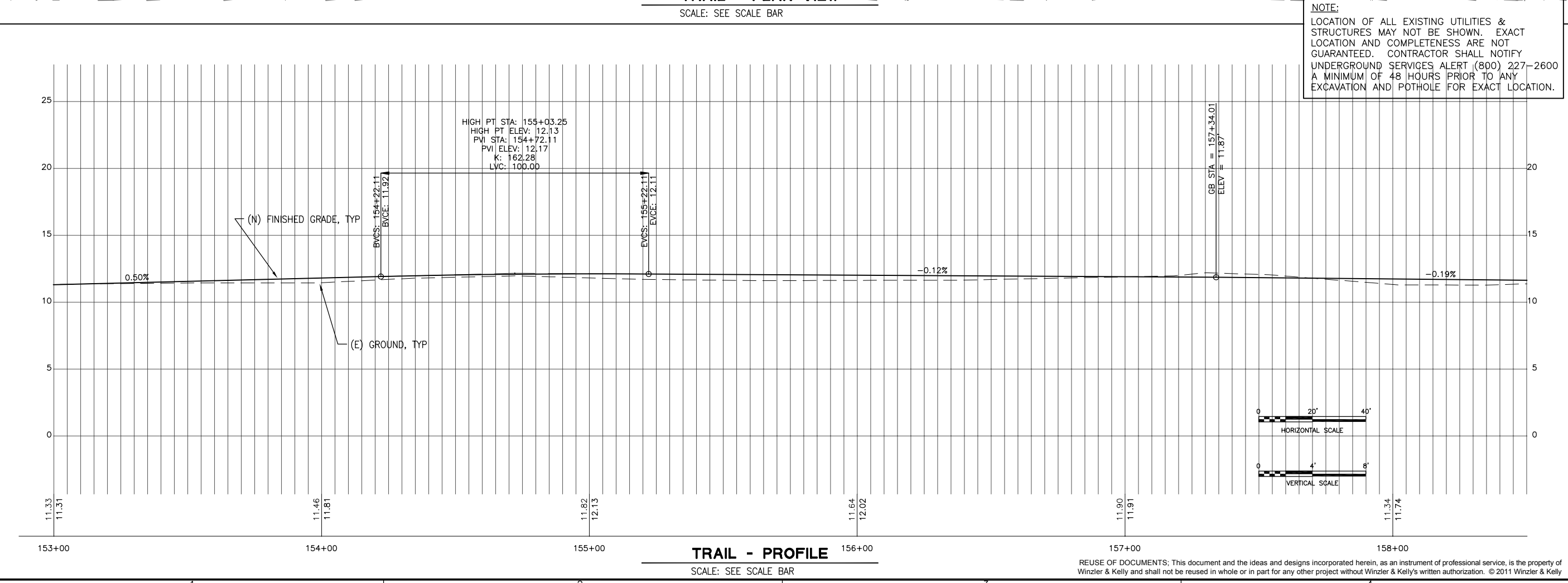
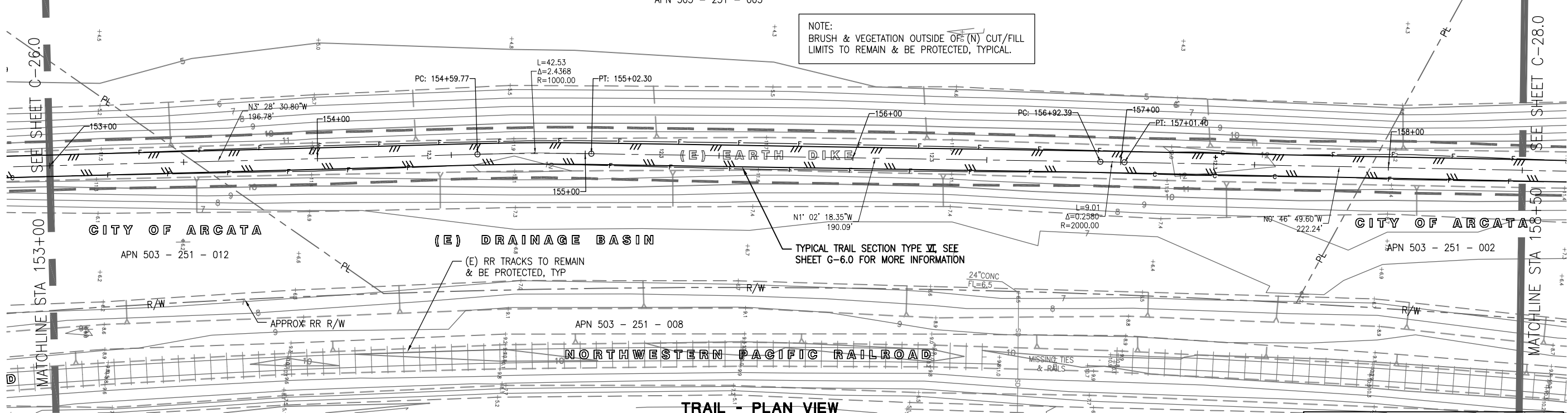
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					SYN.			DATE	APPROVED							
					REVISIONS											


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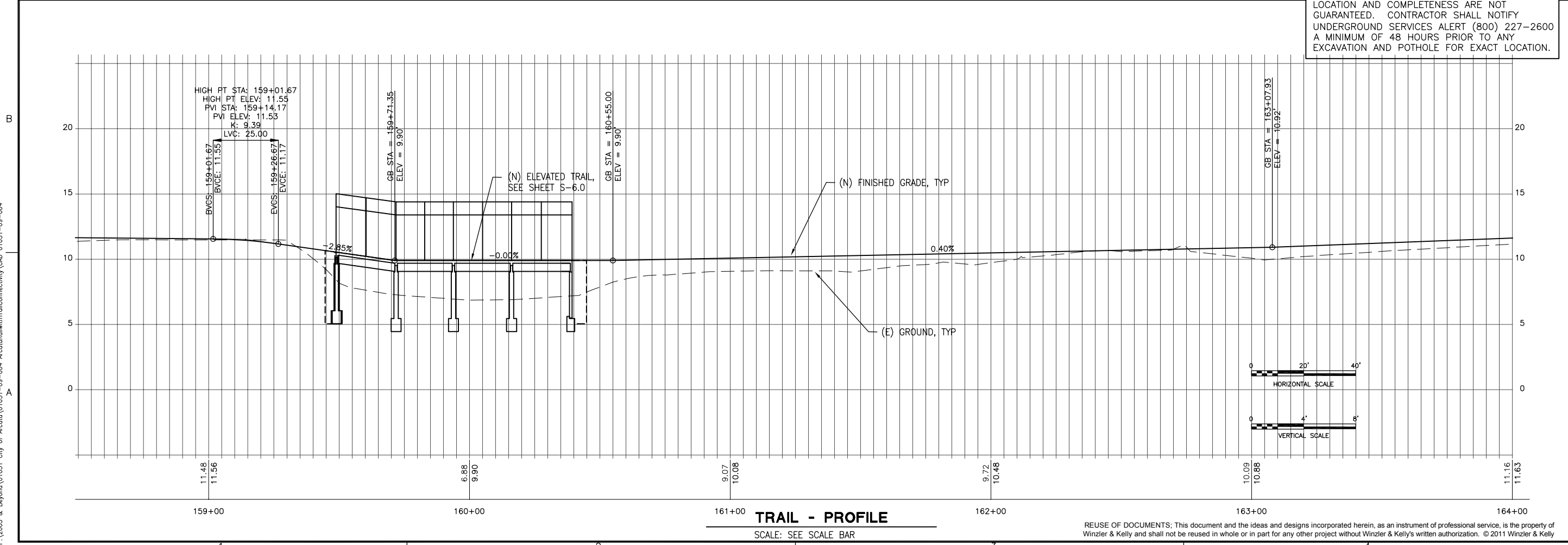
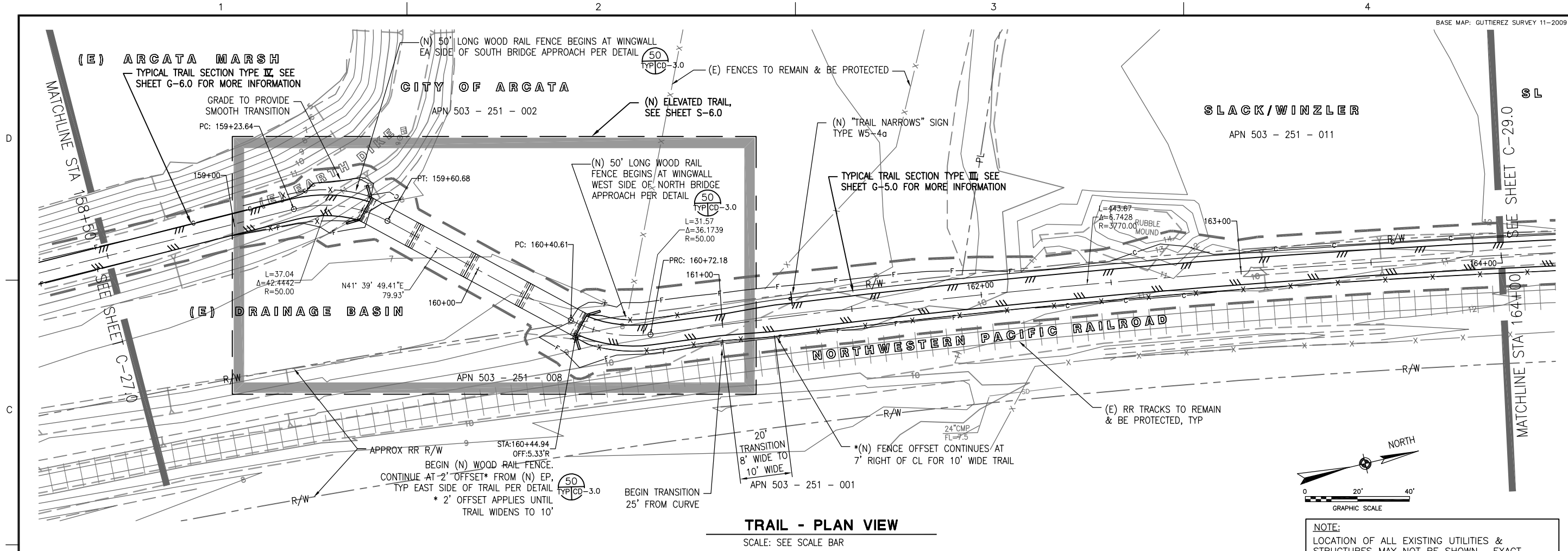
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SUPP	MP	CHK	PK
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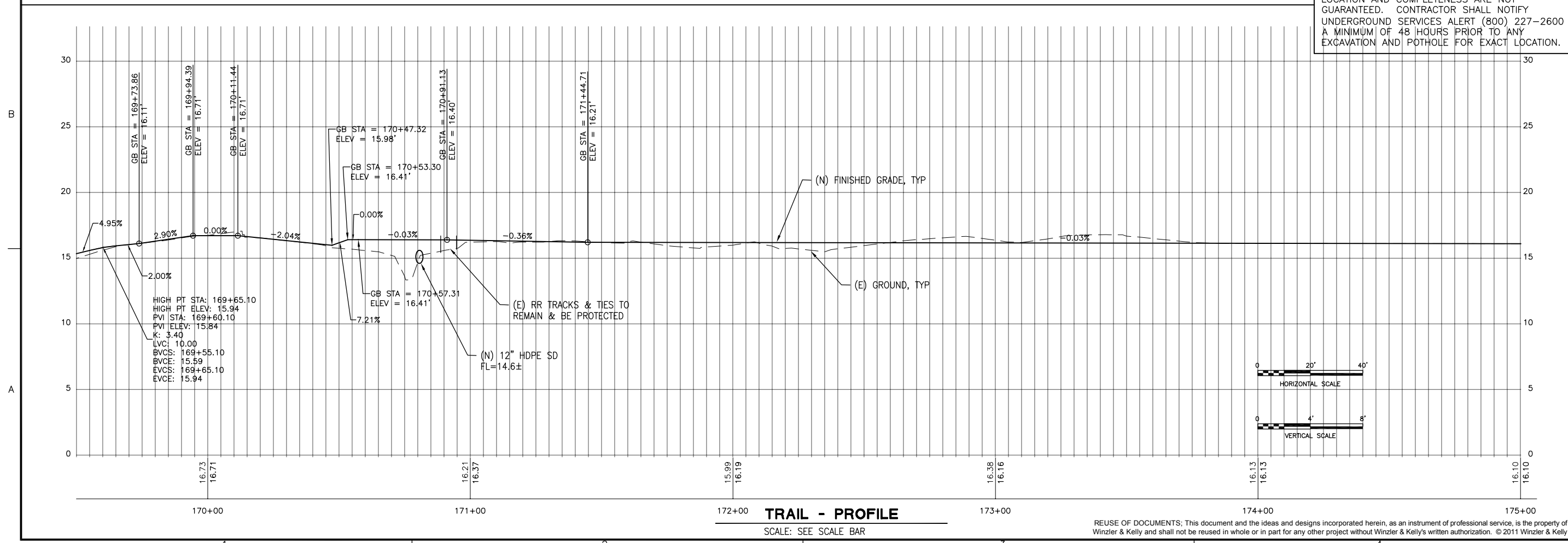
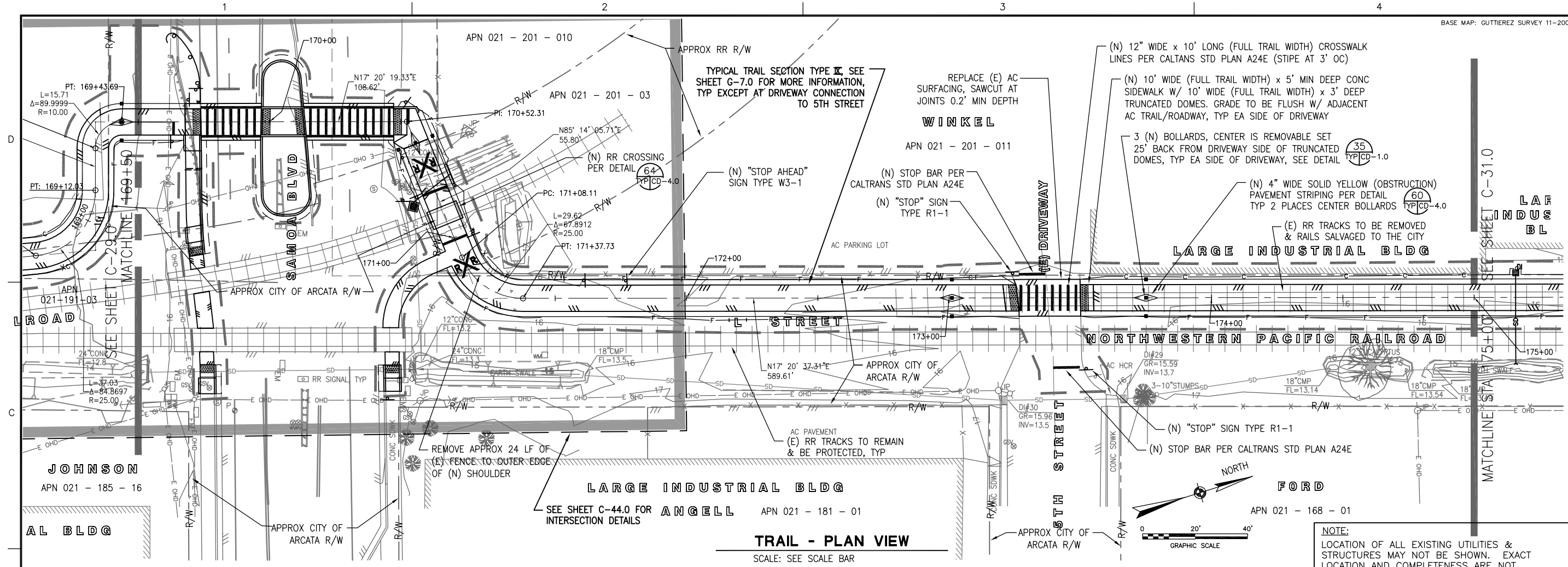
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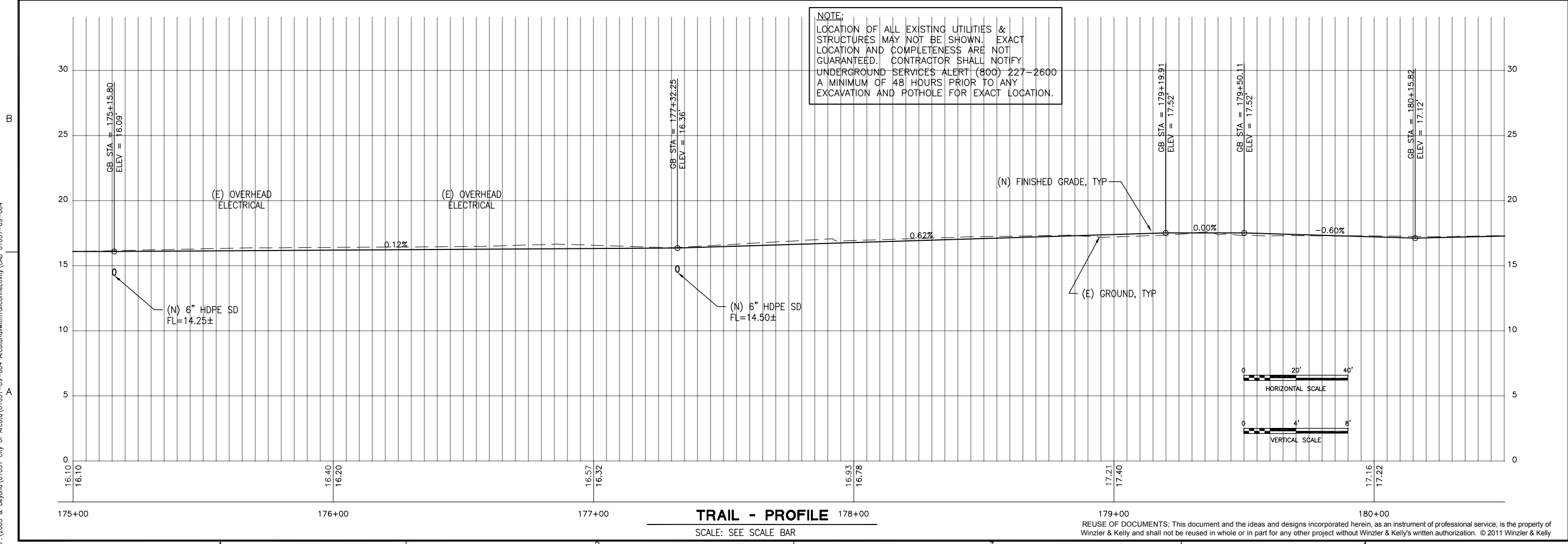
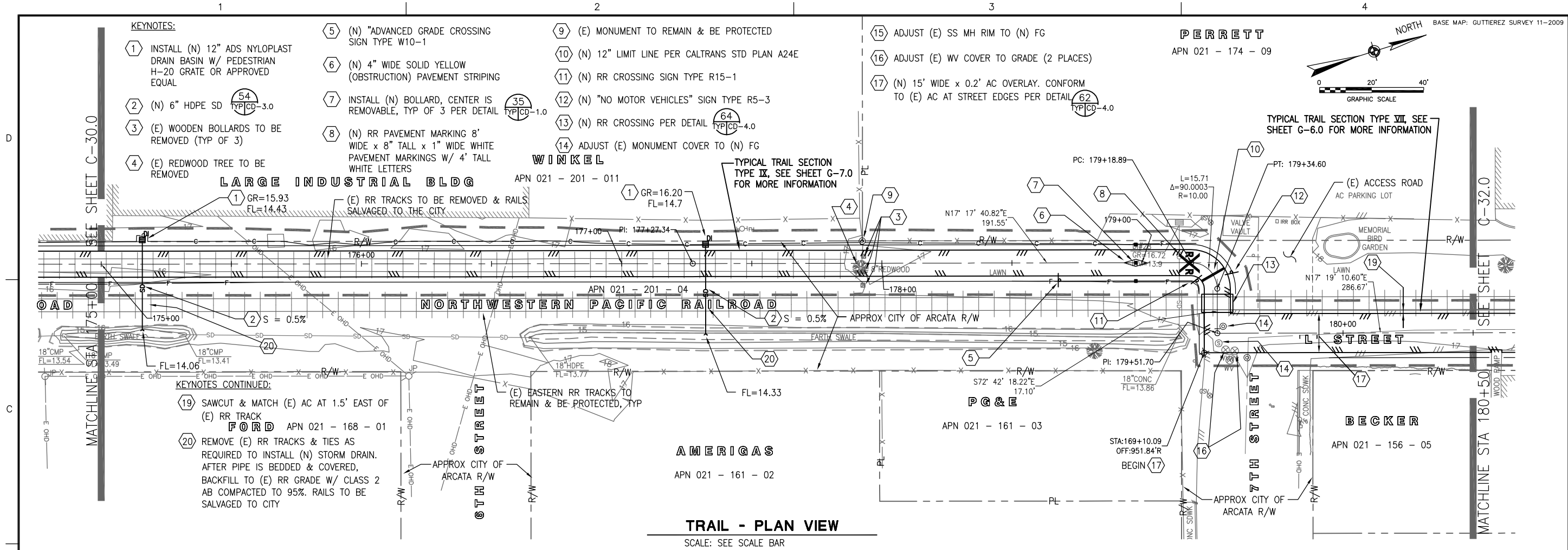


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C-30.0			

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CITY OF ARCATA  
RAIL WITH TRAIL  
CONNECTIVITY PROJECT  
CIVIL  
PLAN & PROFILE  
STA 175+00 TO STA 180+50

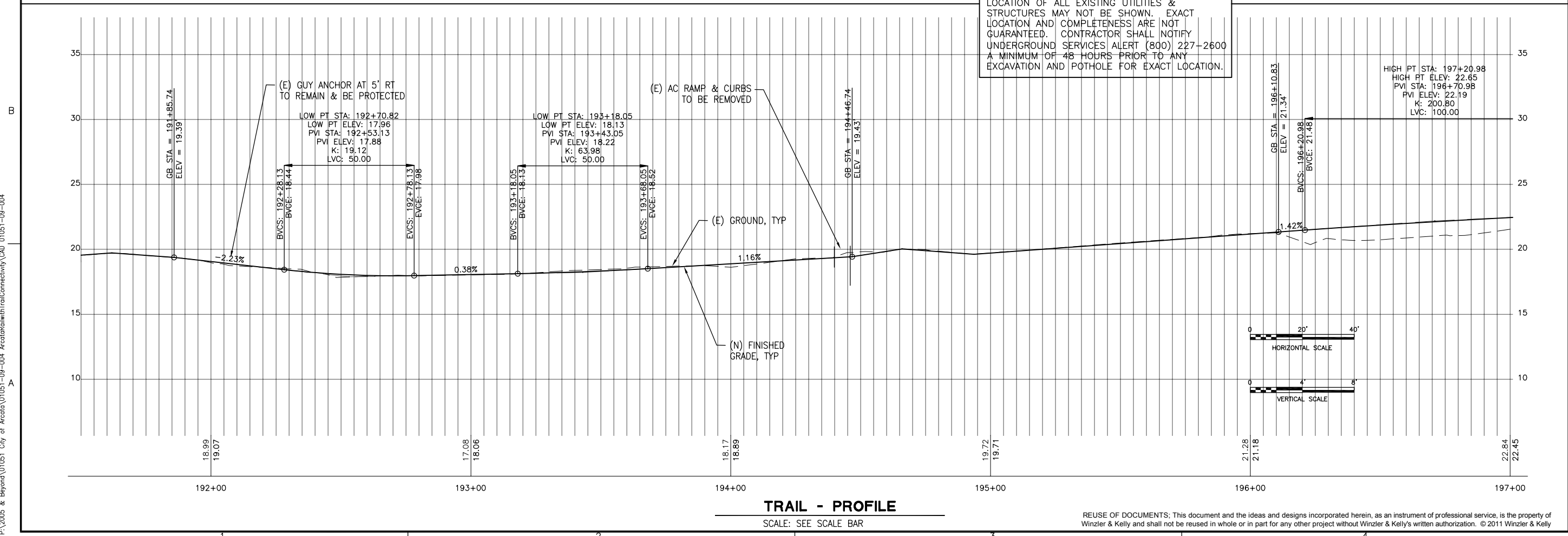
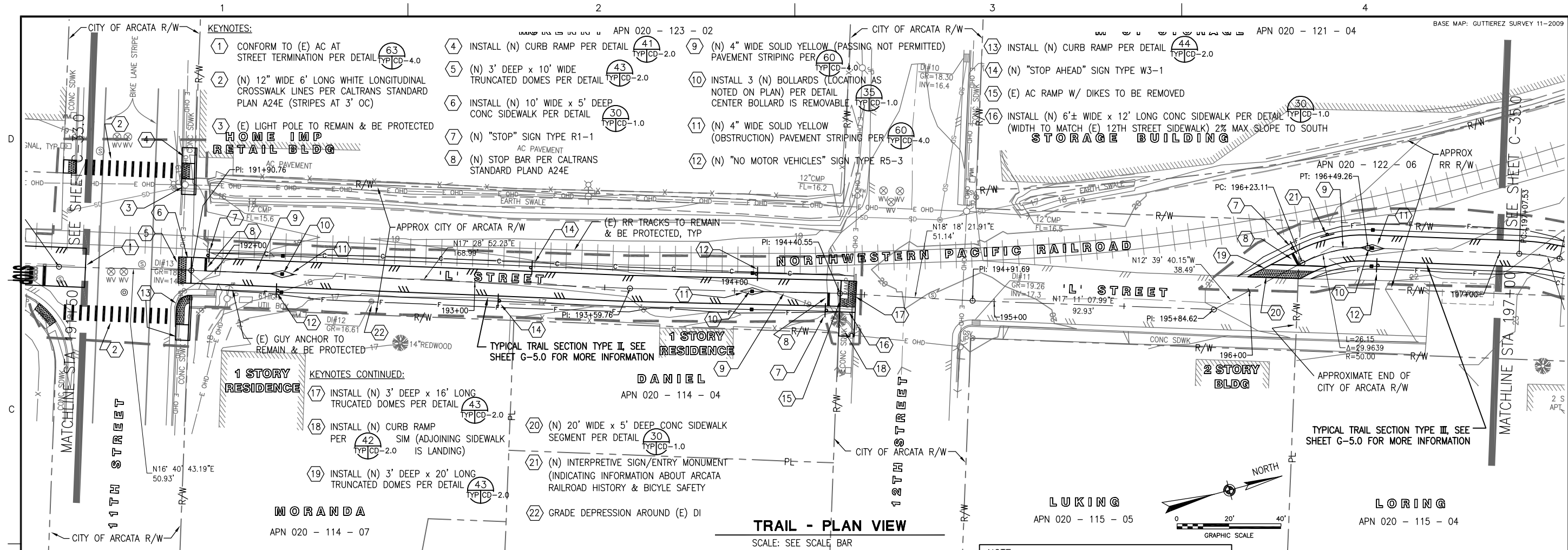
JES JS DBN JS PK SUPP MP  
DRAWING SCALE AS NOTED

PROFESSIONAL ENGINEER  
ANDREW PERRY  
No. C 8926  
Exp. 01/01/2012  
SEAL

JOB NUMBER 01051-09-004  
SHEET 40 OF 73  
C-31.0









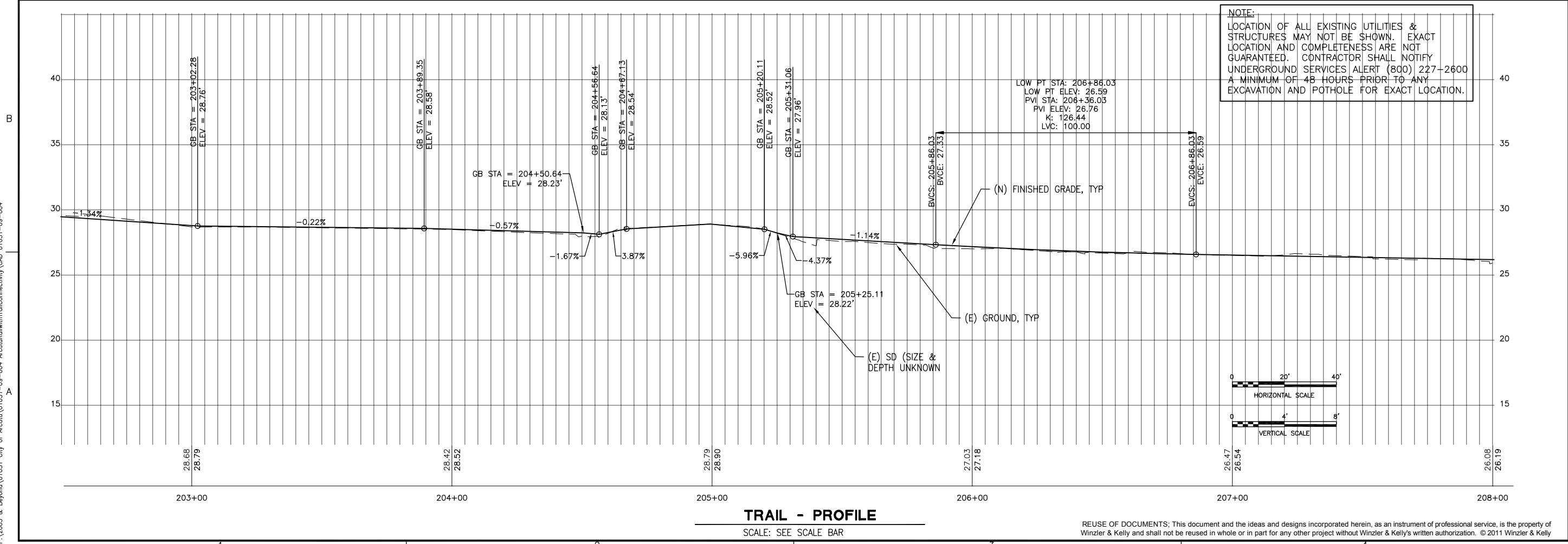
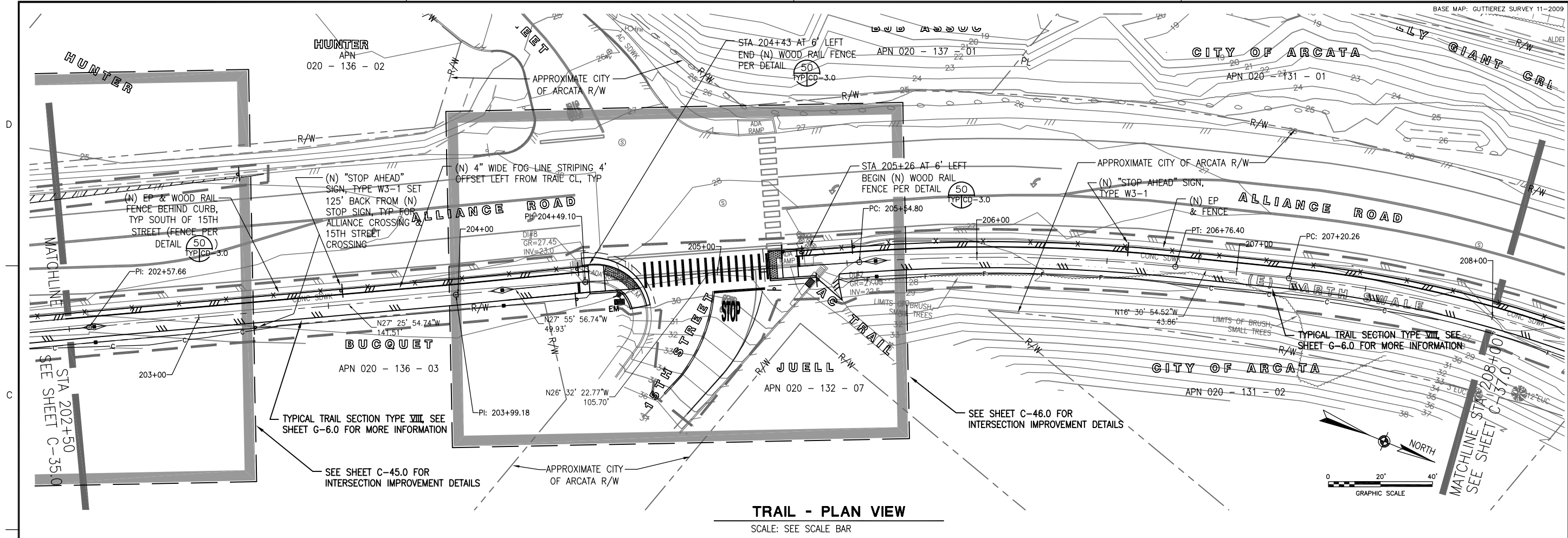
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C-34.0		SHEET 43 OF 73		JOB NUMBER 01051-09-004		CITY OF ARCATO RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL PLAN & PROFILE STA 191+50 TO STA 197+00				DES JS JS SUPV MP PK DRAWING SCALE AS NOTED		 WINZLER & KELLY 633 THIRD STREET EUREKA, CA 95501-0417 PH (707) 443-8326 FAX (707) 444-8330		SUBCONSULTANT		REVISIONS SYM. DESCRIPTION DATE APPROVED		REVISED FEB. 2011		<div style="border: 2px solid black; padding: 5px; text-align: center;"> <b>100% SUBMITTAL</b>  <b>NOT FOR CONSTRUCTION</b> </div>	
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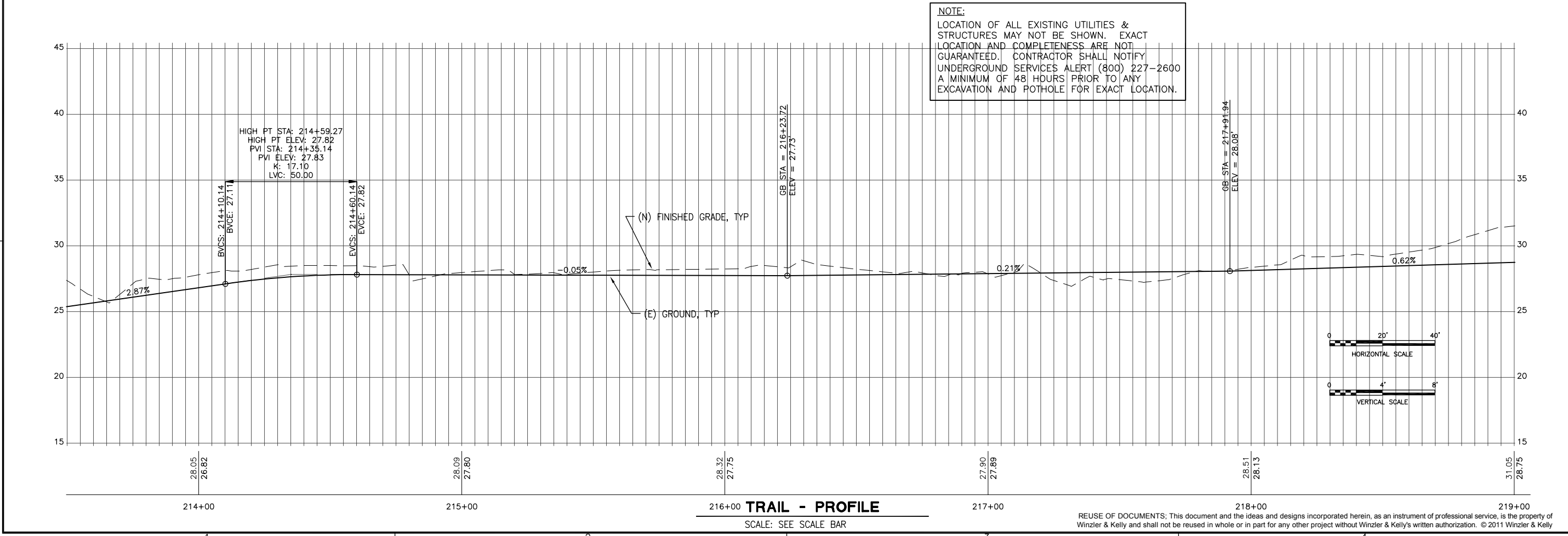
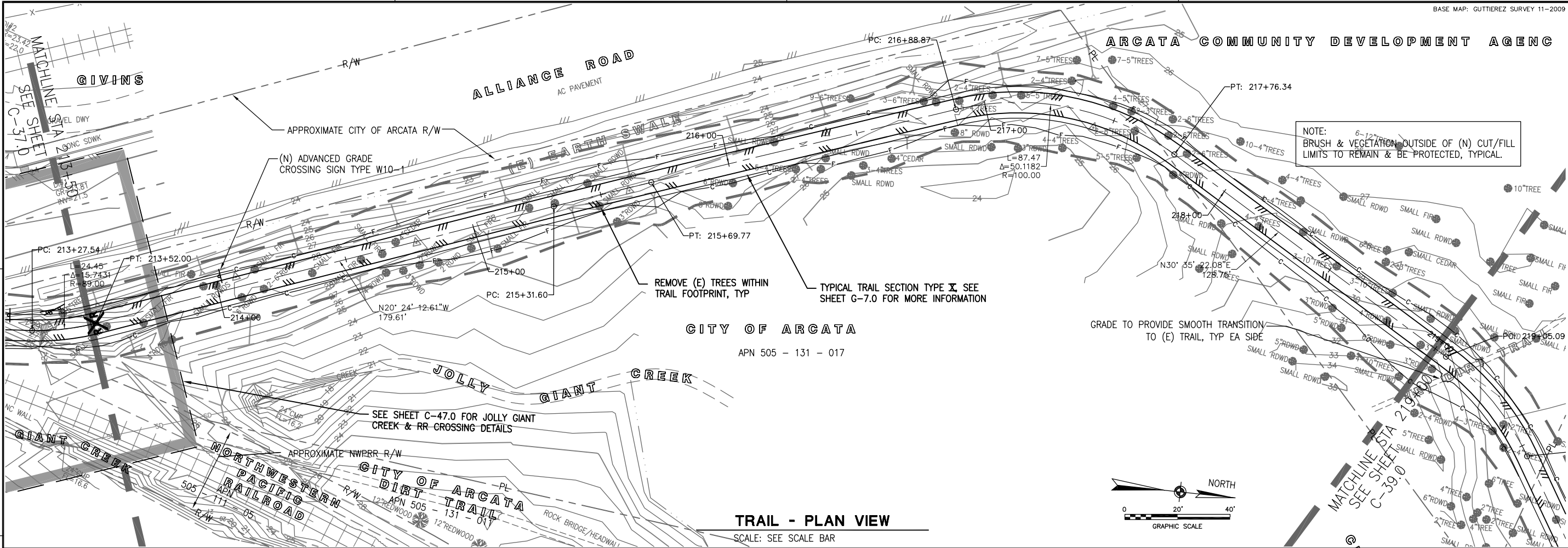
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DESIGN	DATE	DESCRIPTION	REVISIONS
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JOB NUMBER 01051-09-004			
SHEET 45 OF 73			
C-36.0			



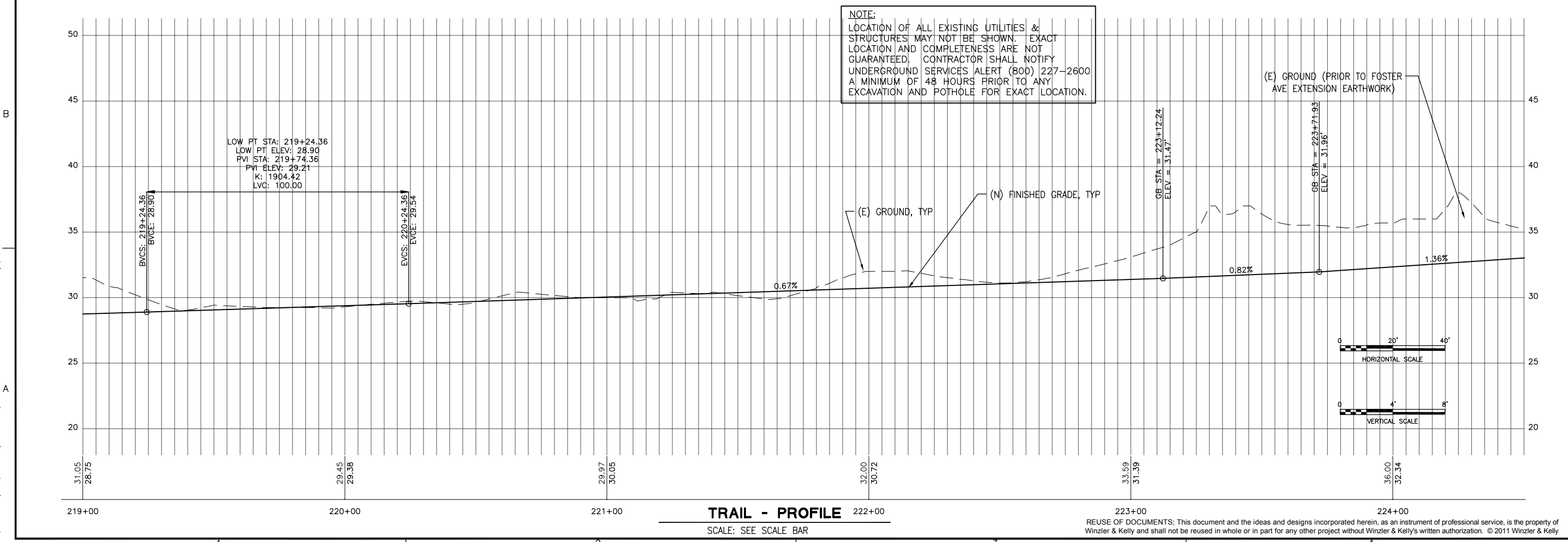
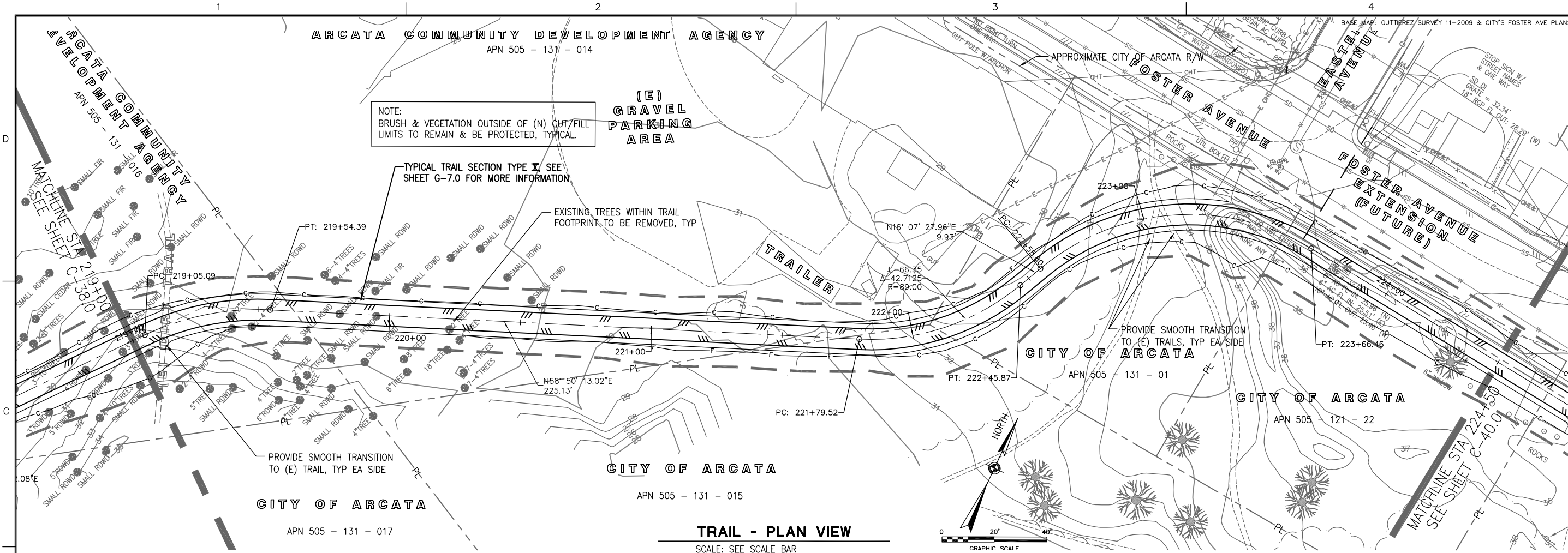


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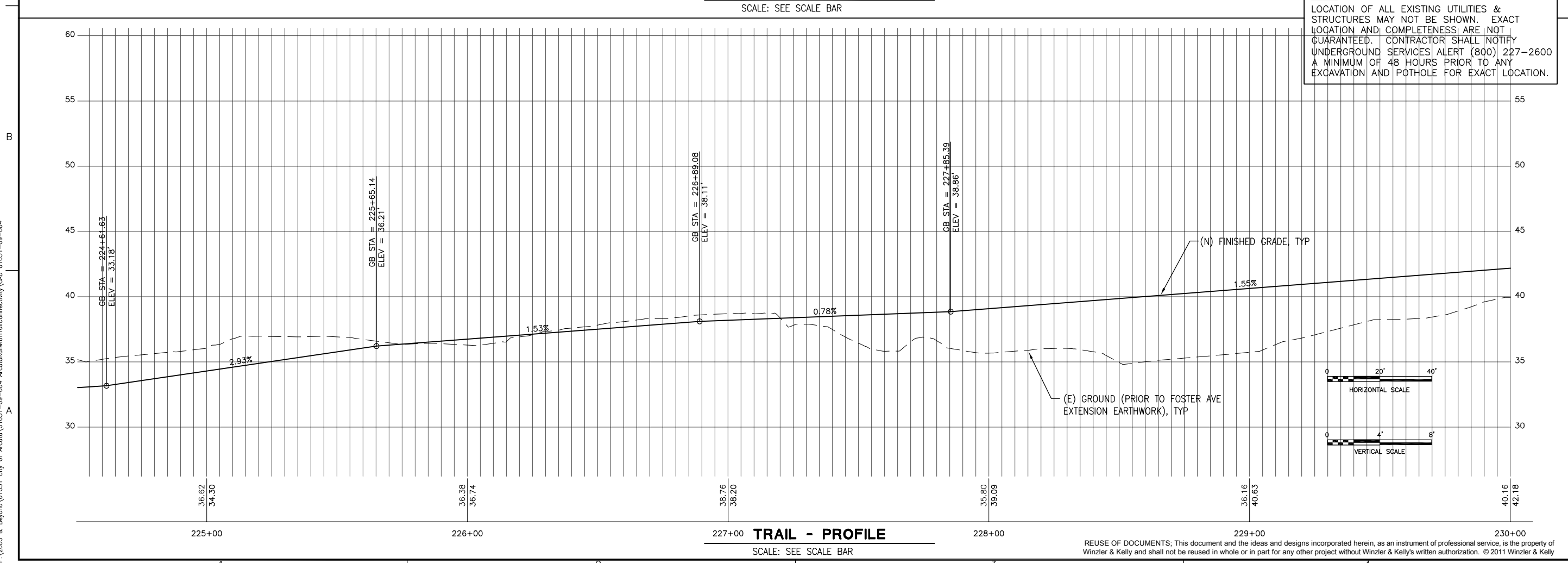
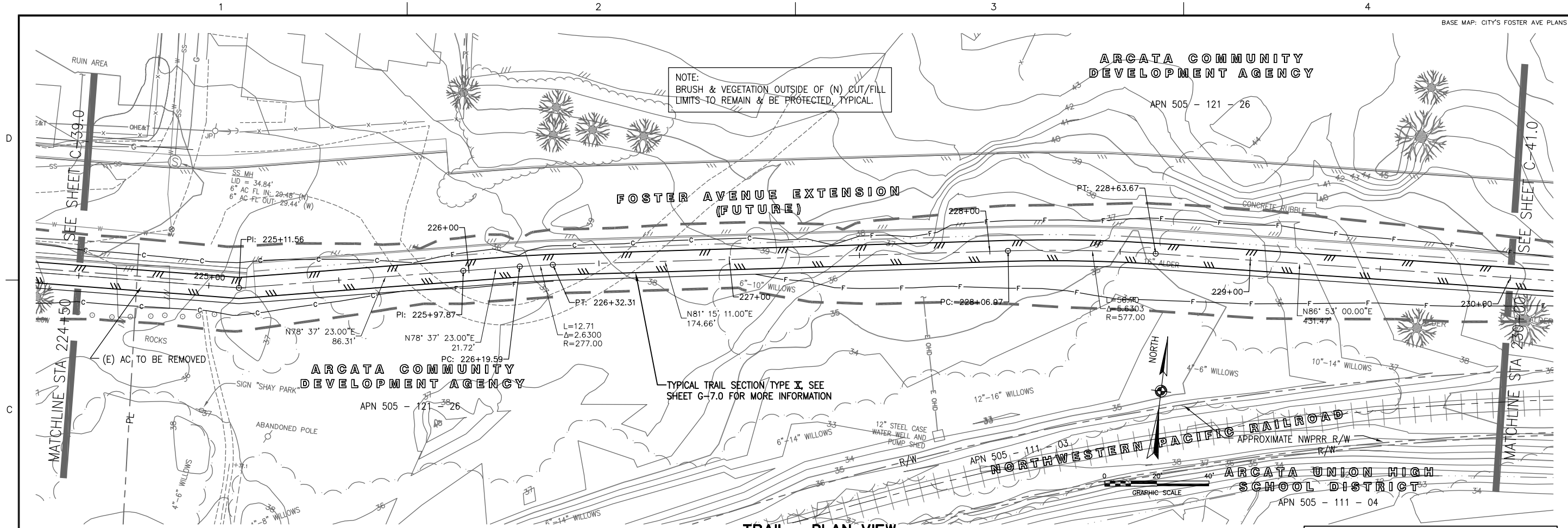
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CITY OF ARCATA		RAIL WITH TRAIL CONNECTIVITY PROJECT		CIVIL		PLAN & PROFILE	
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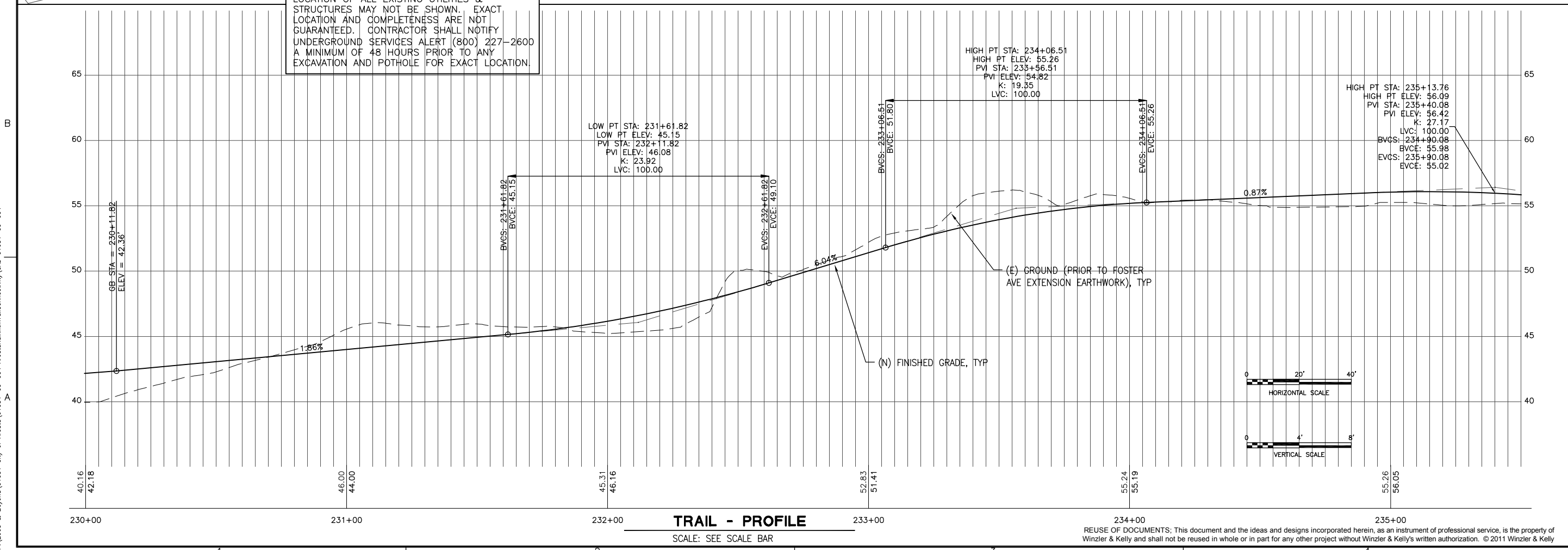
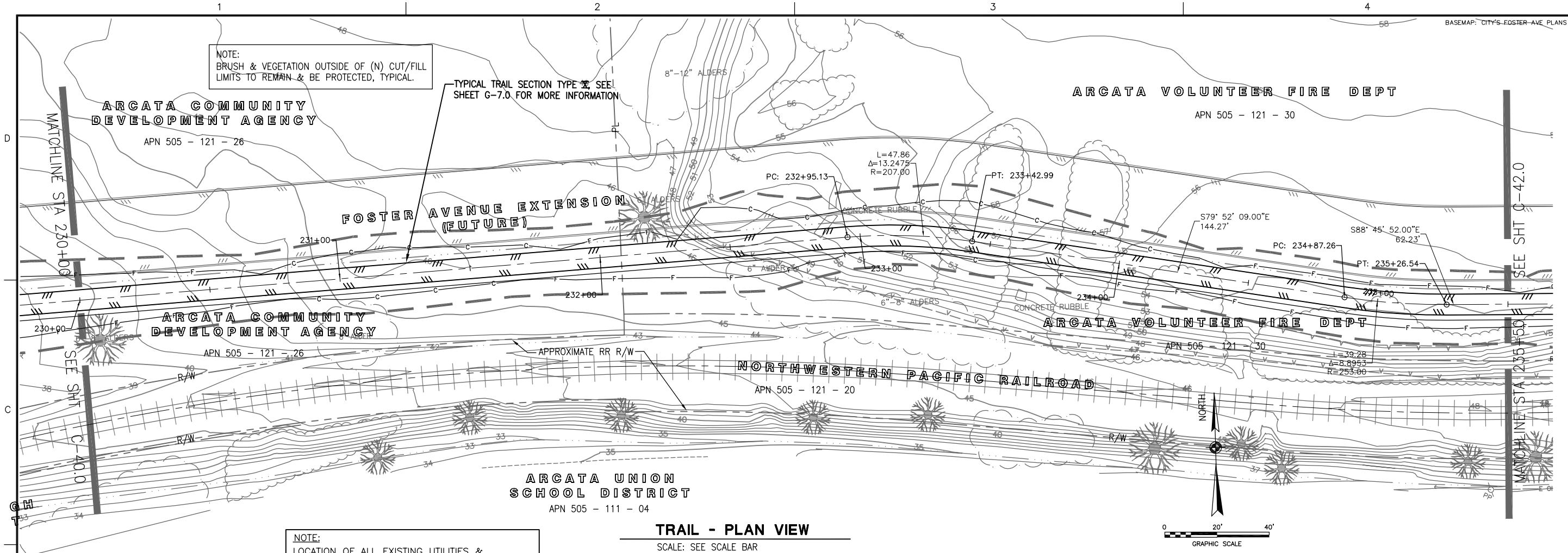
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RAIL WITH TRAIL CONNECTIVITY PROJECT		PLAN & PROFILE	
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DATE		APPROVED	
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JS		PK	
D		C	
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CITY OF ARCATA		RAIL WITH TRAIL CONNECTIVITY PROJECT	
CIVIL		PLAN & PROFILE	
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JOB NUMBER 01051-09-004		SHEET 50 OF 73	
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KEYNOTES:

- 1 (N) BOLLARD, CENTER IS REMOVABLE, TYP  
2 SET 40' BACK FROM CROSSING
- 2 (N) 4" WIDE SOLID YELLOW  
(OBSTRUCTION) PAVEMENT STRIPING PER  
TYPICD-4.0
- 3 (N) 4" WIDE SOLID YELLOW (PASSING NOT  
PERMITTED) PAVEMENT STRIPING BETWEEN  
STOP BAR & BOLLARD

- 4 (N) STOP BAR PER CALTRANS STANDARD PLAN A24E
- 5 (N) BICYCLE CROSSING SIGN TYPE W11-1 W/ TYPE  
W16-7P UNDERNEATH
- 6 REPLACE (E) AC SURFACING, SAWCUT AT JOINTS, 0.2'  
MIN DEPTH

- 8 (N) 12" WIDE 10' WHITE LONGITUDINAL CROSSWALK LINE PER  
CALTRANS STANDARD PLAN A24E (STRIPES AT 3' OC)
- 9 (N) 10' (FULL TRAIL WIDTH) x 5' MIN DEEP CONC SIDEWALK W/  
10' (FULL TRAIL WIDTH) x 3' DEEP TRUNCATED DOMES PER DETAIL  
GRADE TO BE FLUSH WITH ADJACENT AC TRAIL/ROADWAY
- 10 (N) SIGN - "NO MOTOR VEHICLES", TYPE R5-3
- 11 (N) WOOD RAIL FENCE PER DETAIL
- 12 (N) "STOP AHEAD" SIGN TYPE W3-1 W/ TRUCK CROSSING AHEAD  
AND CROSS TRAFFIC WARNING SIGNS TYPE W8-6 & TYPE W4-4P  
UNDERNEATH. SET SIGN 150' BACK FROM CROSSING

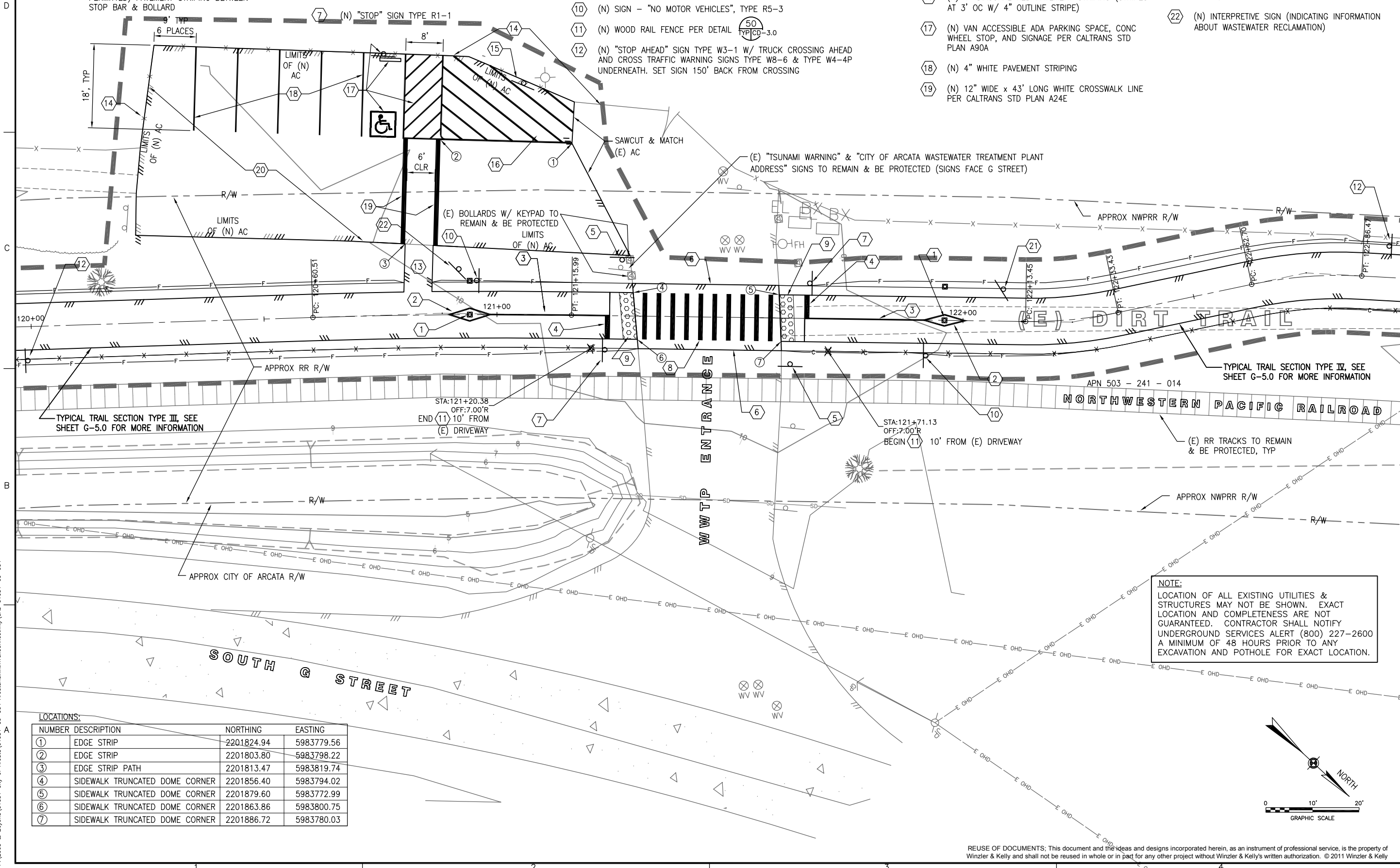
- 13 (N) 6' WIDE AC PATH CONNECTION TO (N) TRAIL
- 14 (E) FENCE & GATE TO REMAIN & BE PROTECTED
- 15 (N) "NO PARKING" SIGN TYPE R8-3
- 16 (N) 4" DIAGONAL RED PAVEMENT STRIPING (STRIPES  
AT 3' OC W/ 4" OUTLINE STRIPE)
- 17 (N) VAN ACCESSIBLE ADA PARKING SPACE, CONC  
WHEEL STOP, AND SIGNAGE PER CALTRANS STD  
PLAN A90A
- 18 (N) 4" WHITE PAVEMENT STRIPING
- 19 (N) 12" WIDE x 43' LONG WHITE CROSSWALK LINE  
PER CALTRANS STD PLAN A24E

- 20 REMOVE (E) AC WITHIN LIMITS SHOWN &  
REPLACE WITH (N) AC WITH 2% MAX SLOPE IN  
ANY DIRECTION
- 21 (N) WAY-FINDING SIGN (INDICATING DISTANCE  
AND DIRECTION TO ARCATA DOWNTOWN, ARCATA  
MARSH, AND PACIFIC COAST
- 22 (N) INTERPRETIVE SIGN (INDICATING INFORMATION  
ABOUT WASTEWATER RECLAMATION)

ARCATA WASTEWATER TREATMENT PLANT

APN 503 - 241 - 013

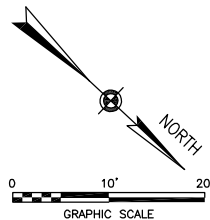
BASE MAP: GUTIERREZ SURVEY 11-2009



LOCATIONS:

NUMBER	DESCRIPTION	NORTHING	EASTING
1	EDGE STRIP	2201824.94	5983779.56
2	EDGE STRIP	2201803.80	5983798.22
3	EDGE STRIP PATH	2201813.47	5983819.74
4	SIDEWALK TRUNCATED DOME CORNER	2201856.40	5983794.02
5	SIDEWALK TRUNCATED DOME CORNER	2201879.60	5983772.99
6	SIDEWALK TRUNCATED DOME CORNER	2201863.86	5983800.75
7	SIDEWALK TRUNCATED DOME CORNER	2201886.72	5983780.03

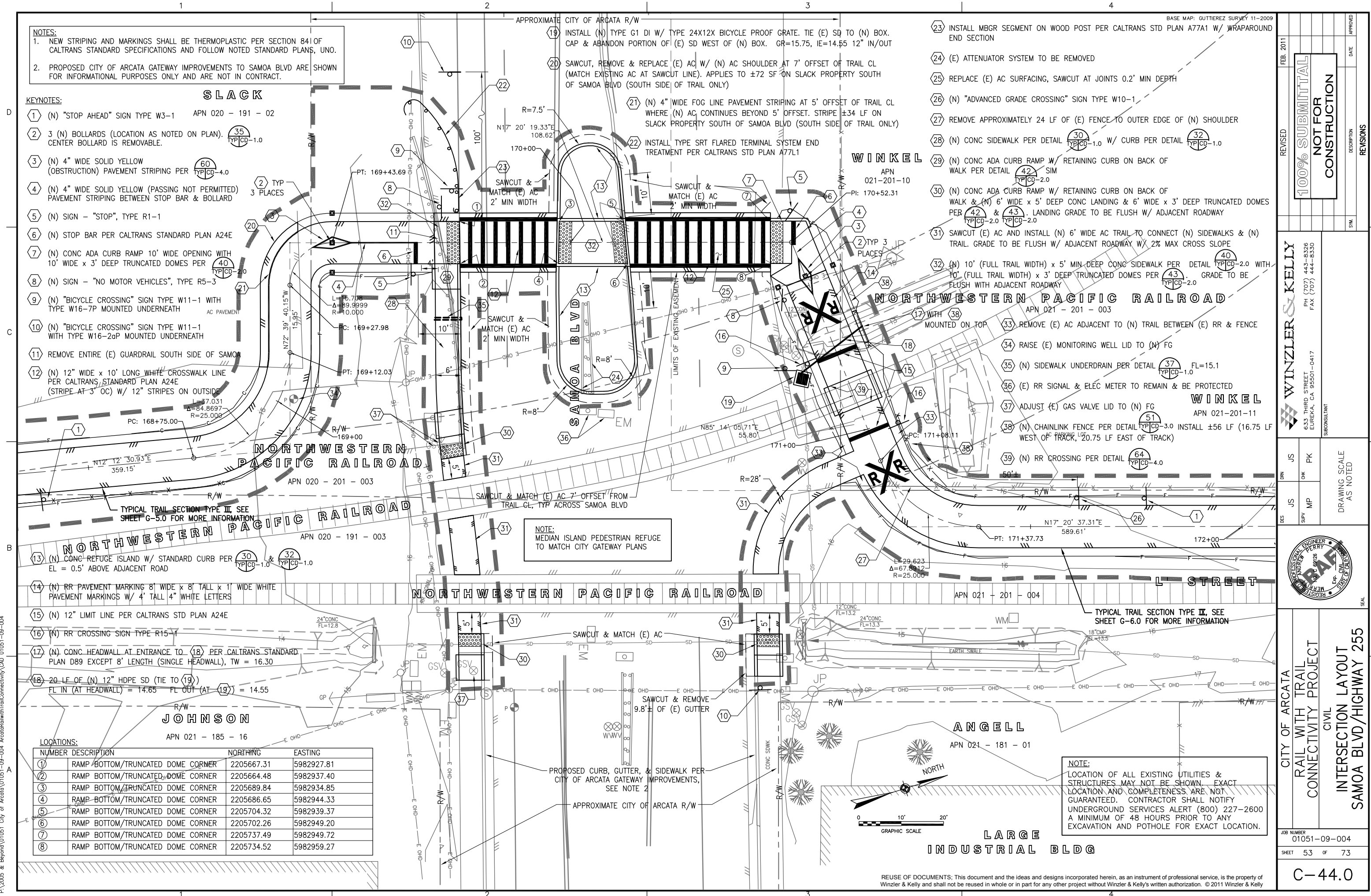
NOTE:  
LOCATION OF ALL EXISTING UTILITIES &  
STRUCTURES MAY NOT BE SHOWN. EXACT  
LOCATION AND COMPLETENESS ARE NOT  
GUARANTEED. CONTRACTOR SHALL NOTIFY  
UNDERGROUND SERVICES ALERT (800) 227-2600  
A MINIMUM OF 48 HOURS PRIOR TO ANY  
EXCAVATION AND POT HOLE FOR EXACT LOCATION.



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WINZLER & KELLY		PH (707) 443-8326		FAX (707) 444-8330		633 THIRD STREET		EUREKA, CA 95501-0417		SUBCONSULTANT	
DESIGN		CHECK		IN CHARGE		SEAL		DRAWING SCALE		AS NOTED	
CITY OF ARCATA		RAIL WITH TRAIL		CONNECTIVITY PROJECT		CIVIL		INTERSECTION LAYOUT		WWTP ENTRANCE	
JOB NUMBER		01051-09-004		SHEET		52 OF		73		C-43.0	

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- NOTES:
1. NEW STRIPING AND MARKINGS SHALL BE THERMOPLASTIC PER SECTION 841 OF CALTRANS STANDARD SPECIFICATIONS AND FOLLOW NOTED STANDARD PLANS, UNO.
  2. PROPOSED CITY OF ARCATA GATEWAY IMPROVEMENTS TO SAMOA BLVD ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT IN CONTRACT.

KEYNOTES:

- 1 (N) "STOP AHEAD" SIGN TYPE W3-1 APN 020 - 191 - 02
- 2 3 (N) BOLLARDS (LOCATION AS NOTED ON PLAN). CENTER BOLLARD IS REMOVABLE.
- 3 (N) 4" WIDE SOLID YELLOW (OBSTRUCTION) PAVEMENT STRIPING PER TYPICAL CD-4.0
- 4 (N) 4" WIDE SOLID YELLOW (PASSING NOT PERMITTED) PAVEMENT STRIPING BETWEEN STOP BAR & BOLLARD
- 5 (N) SIGN - "STOP", TYPE R1-1
- 6 (N) STOP BAR PER CALTRANS STANDARD PLAN A24E
- 7 (N) CONC ADA CURB RAMP 10' WIDE OPENING WITH 10' WIDE x 3' DEEP TRUNCATED DOMES PER TYPICAL CD-2.0
- 8 (N) SIGN - "NO MOTOR VEHICLES", TYPE R5-3
- 9 (N) "BICYCLE CROSSING" SIGN TYPE W11-1 WITH TYPE W16-7P MOUNTED UNDERNEATH
- 10 (N) "BICYCLE CROSSING" SIGN TYPE W11-1 WITH TYPE W16-2aP MOUNTED UNDERNEATH
- 11 REMOVE ENTIRE (E) GUARDRAIL SOUTH SIDE OF SAMOA
- 12 (N) 12" WIDE x 10' LONG WHITE CROSSWALK LINE PER CALTRANS STANDARD PLAN A24E (STRIPE AT 3' OC) W/ 12" STRIPES ON OUTSIDE

- 13 (N) CONC REFUGE ISLAND W/ STANDARD CURB PER TYPICAL CD-1.0 & TYPICAL CD-1.0
- 14 (N) RR PAVEMENT MARKING 8' WIDE x 8' TALL x 1' WIDE WHITE PAVEMENT MARKINGS W/ 4' TALL 4" WHITE LETTERS
- 15 (N) 12" LIMIT LINE PER CALTRANS STD PLAN A24E
- 16 (N) RR CROSSING SIGN TYPE R15-1
- 17 (N) CONC HEADWALL AT ENTRANCE TO 18 PER CALTRANS STANDARD PLAN D89 EXCEPT 8' LENGTH (SINGLE HEADWALL), TW = 16.30
- 18 20 LF OF (N) 12" HDPE SD (TIE TO 19) FL IN (AT HEADWALL) = 14.65 FL OUT (AT 19) = 14.55

- 19 (N) TYPE G1 DI W/ TYPE 24X12X BICYCLE PROOF GRATE. TIE (E) SD TO (N) BOX. CAP & ABANDON PORTION OF (E) SD WEST OF (N) BOX. GR=15.75, IE=14.55 12" IN/OUT
- 20 SAWCUT, REMOVE & REPLACE (E) AC W/ (N) AC SHOULDER AT 7' OFFSET OF TRAIL CL (MATCH EXISTING AC AT SAWCUT LINE). APPLIES TO ±72 SF ON SLACK PROPERTY SOUTH OF SAMOA BLVD (SOUTH SIDE OF TRAIL ONLY)
- 21 (N) 4" WIDE FOG LINE PAVEMENT STRIPING AT 5' OFFSET OF TRAIL CL WHERE (N) AC CONTINUES BEYOND 5' OFFSET. STRIPE ±34 LF ON SLACK PROPERTY SOUTH OF SAMOA BLVD (SOUTH SIDE OF TRAIL ONLY)
- 22 INSTALL TYPE SRT FLARED TERMINAL SYSTEM END TREATMENT PER CALTRANS STD PLAN A77L1

LOCATIONS:

NUMBER	DESCRIPTION	NORTHING	EASTING
1	RAMP BOTTOM/TRUNCATED DOME CORNER	2205667.31	5982927.81
2	RAMP BOTTOM/TRUNCATED DOME CORNER	2205664.48	5982937.40
3	RAMP BOTTOM/TRUNCATED DOME CORNER	2205689.84	5982934.85
4	RAMP BOTTOM/TRUNCATED DOME CORNER	2205686.65	5982944.33
5	RAMP BOTTOM/TRUNCATED DOME CORNER	2205704.32	5982939.37
6	RAMP BOTTOM/TRUNCATED DOME CORNER	2205702.26	5982949.20
7	RAMP BOTTOM/TRUNCATED DOME CORNER	2205737.49	5982949.72
8	RAMP BOTTOM/TRUNCATED DOME CORNER	2205734.52	5982959.27

- 23 INSTALL MBGR SEGMENT ON WOOD POST PER CALTRANS STD PLAN A77A1 W/ WRAPAROUND END SECTION
- 24 (E) ATTENUATOR SYSTEM TO BE REMOVED
- 25 REPLACE (E) AC SURFACING, SAWCUT AT JOINTS 0.2' MIN DEPTH
- 26 (N) "ADVANCED GRADE CROSSING" SIGN TYPE W10-1
- 27 REMOVE APPROXIMATELY 24 LF OF (E) FENCE TO OUTER EDGE OF (N) SHOULDER
- 28 (N) CONC SIDEWALK PER DETAIL TYPICAL CD-1.0 W/ CURB PER DETAIL TYPICAL CD-1.0
- 29 (N) CONC ADA CURB RAMP W/ RETAINING CURB ON BACK OF WALK PER DETAIL TYPICAL CD-2.0
- 30 (N) CONC ADA CURB RAMP W/ RETAINING CURB ON BACK OF WALK & (N) 6' WIDE x 5' DEEP CONC LANDING & 6' WIDE x 3' DEEP TRUNCATED DOMES PER TYPICAL CD-2.0 & TYPICAL CD-2.0. LANDING GRADE TO BE FLUSH W/ ADJACENT ROADWAY
- 31 SAWCUT (E) AC AND INSTALL (N) 6' WIDE AC TRAIL TO CONNECT (N) SIDEWALKS & (N) TRAIL. GRADE TO BE FLUSH W/ ADJACENT ROADWAY W/ 2% MAX CROSS SLOPE
- 32 (N) 10' (FULL TRAIL WIDTH) x 5' MIN DEEP CONC SIDEWALK PER DETAIL TYPICAL CD-2.0 WITH 10' (FULL TRAIL WIDTH) x 3' DEEP TRUNCATED DOMES PER TYPICAL CD-2.0. GRADE TO BE FLUSH WITH ADJACENT ROADWAY
- 33 REMOVE (E) AC ADJACENT TO (N) TRAIL BETWEEN (E) RR & FENCE
- 34 RAISE (E) MONITORING WELL LID TO (N) FG
- 35 (N) SIDEWALK UNDERDRAIN PER DETAIL TYPICAL CD-1.0 FL=15.1
- 36 (E) RR SIGNAL & ELEC METER TO REMAIN & BE PROTECTED
- 37 ADJUST (E) GAS VALVE LID TO (N) FG
- 38 (N) CHAINLINK FENCE PER DETAIL TYPICAL CD-3.0 INSTALL ±56 LF (16.75 LF WEST OF TRACK, 20.75 LF EAST OF TRACK)
- 39 (N) RR CROSSING PER DETAIL TYPICAL CD-4.0

NOTE:  
LOCATION OF ALL EXISTING UTILITIES & STRUCTURES MAY NOT BE SHOWN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

WINZLER & KELLY  
633 THIRD STREET  
EUREKA, CA 95501-0417  
PH (707) 443-8326  
FAX (707) 444-8330

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DATE  
APPROVED

SYMBOL  
DESCRIPTION

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DESIGNER  
CHECKER  
IN CHARGE  
DATE

DRAWING SCALE  
AS NOTED

SEAL  
REGISTERED PROFESSIONAL ENGINEER  
PERRY  
NO. 8826  
EXPIRATION DATE 12/31/2011

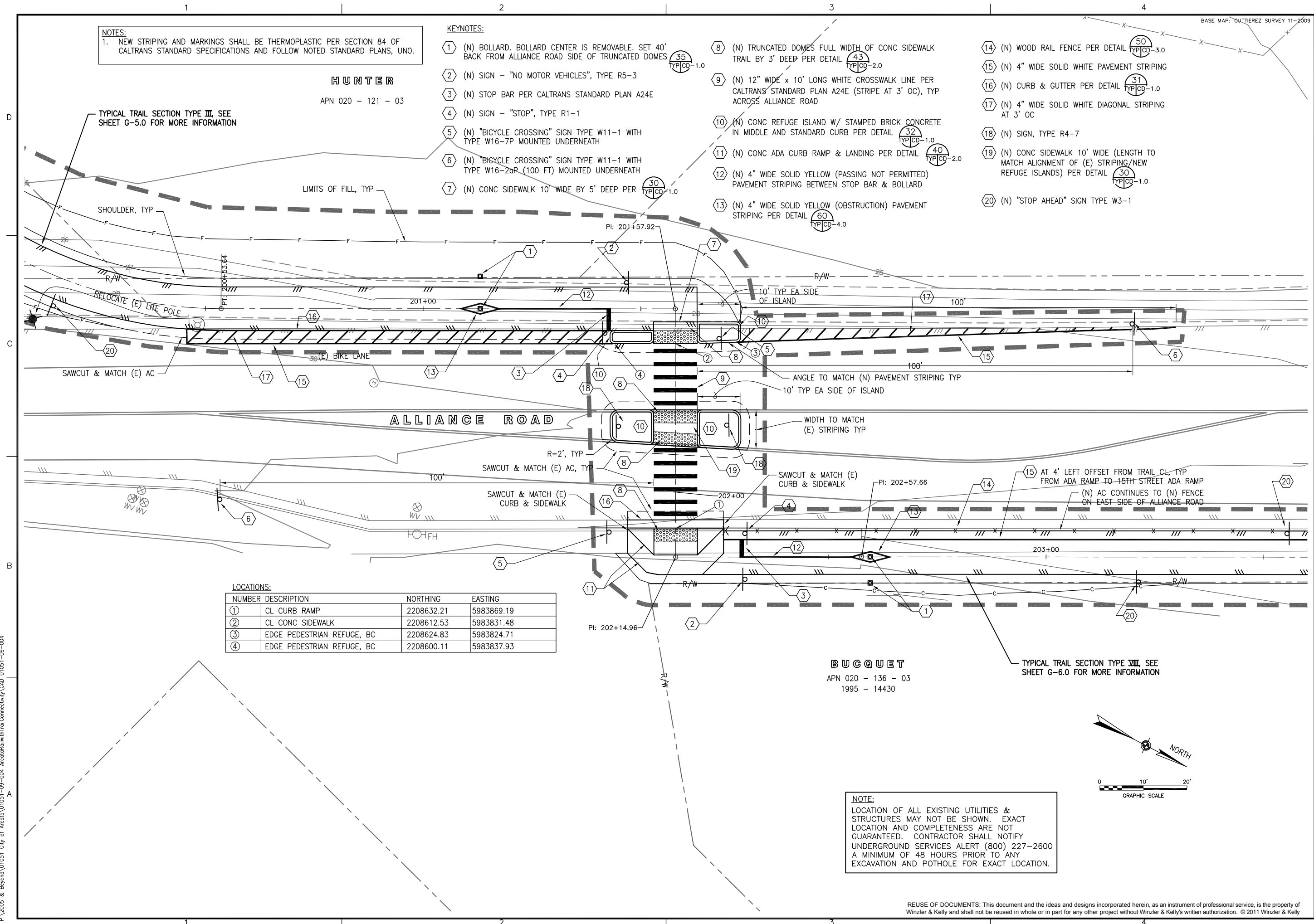
CITY OF ARCATA  
RAIL WITH TRAIL  
CONNECTIVITY PROJECT  
CIVIL  
INTERSECTION LAYOUT  
SAMOA BLVD/HIGHWAY 255

JOB NUMBER  
01051-09-004

SHEET 53 OF 73

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NOTES:  
1. NEW STRIPING AND MARKINGS SHALL BE THERMOPLASTIC PER SECTION 84 OF CALTRANS STANDARD SPECIFICATIONS AND FOLLOW NOTED STANDARD PLANS, UNO.

- KEYNOTES:
- 1 (N) BOLLARD. BOLLARD CENTER IS REMOVABLE. SET 40' BACK FROM ALLIANCE ROAD SIDE OF TRUNCATED DOMES
  - 2 (N) SIGN - "NO MOTOR VEHICLES", TYPE R5-3
  - 3 (N) STOP BAR PER CALTRANS STANDARD PLAN A24E
  - 4 (N) SIGN - "STOP", TYPE R1-1
  - 5 (N) "BICYCLE CROSSING" SIGN TYPE W11-1 WITH TYPE W16-7P MOUNTED UNDERNEATH
  - 6 (N) "BICYCLE CROSSING" SIGN TYPE W11-1 WITH TYPE W16-20P (100 FT) MOUNTED UNDERNEATH
  - 7 (N) CONC SIDEWALK 10' WIDE BY 5' DEEP PER

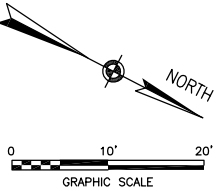
- 8 (N) TRUNCATED DOMES FULL WIDTH OF CONC SIDEWALK TRAIL BY 3' DEEP PER DETAIL
- 9 (N) 12" WIDE x 10' LONG WHITE CROSSWALK LINE PER CALTRANS STANDARD PLAN A24E (STRIPE AT 3' OC), TYP ACROSS ALLIANCE ROAD
- 10 (N) CONC REFUGE ISLAND W/ STAMPED BRICK CONCRETE IN MIDDLE AND STANDARD CURB PER DETAIL
- 11 (N) CONC ADA CURB RAMP & LANDING PER DETAIL
- 12 (N) 4" WIDE SOLID YELLOW (PASSING NOT PERMITTED) PAVEMENT STRIPING BETWEEN STOP BAR & BOLLARD
- 13 (N) 4" WIDE SOLID YELLOW (OBSTRUCTION) PAVEMENT STRIPING PER DETAIL

- 14 (N) WOOD RAIL FENCE PER DETAIL
- 15 (N) 4" WIDE SOLID WHITE PAVEMENT STRIPING
- 16 (N) CURB & GUTTER PER DETAIL
- 17 (N) 4" WIDE SOLID WHITE DIAGONAL STRIPING AT 3' OC
- 18 (N) SIGN, TYPE R4-7
- 19 (N) CONC SIDEWALK 10' WIDE (LENGTH TO MATCH ALIGNMENT OF (E) STRIPING/NEW REFUGE ISLANDS) PER DETAIL
- 20 (N) "STOP AHEAD" SIGN TYPE W3-1

LOCATIONS:

NUMBER	DESCRIPTION	NORTHING	EASTING
1	CL CURB RAMP	2208632.21	5983869.19
2	CL CONC SIDEWALK	2208612.53	5983831.48
3	EDGE PEDESTRIAN REFUGE, BC	2208624.83	5983824.71
4	EDGE PEDESTRIAN REFUGE, BC	2208600.11	5983837.93

NOTE:  
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EUREKA, CA 95501-0417  
PH (707) 443-8326  
FAX (707) 444-8330  
SUBCONSULTANT

DESIGN  
PK  
MP  
SUPP

DRAWING SCALE  
AS NOTED

ANDREW PERRY  
No. 8826  
STATE OF CALIFORNIA  
REGISTERED PROFESSIONAL ENGINEER

CITY OF ARCATA  
RAIL WITH TRAIL  
CONNECTIVITY PROJECT  
CIVIL  
INTERSECTION LAYOUT  
ALLIANCE ROAD CROSSING

JOB NUMBER  
01051-09-004

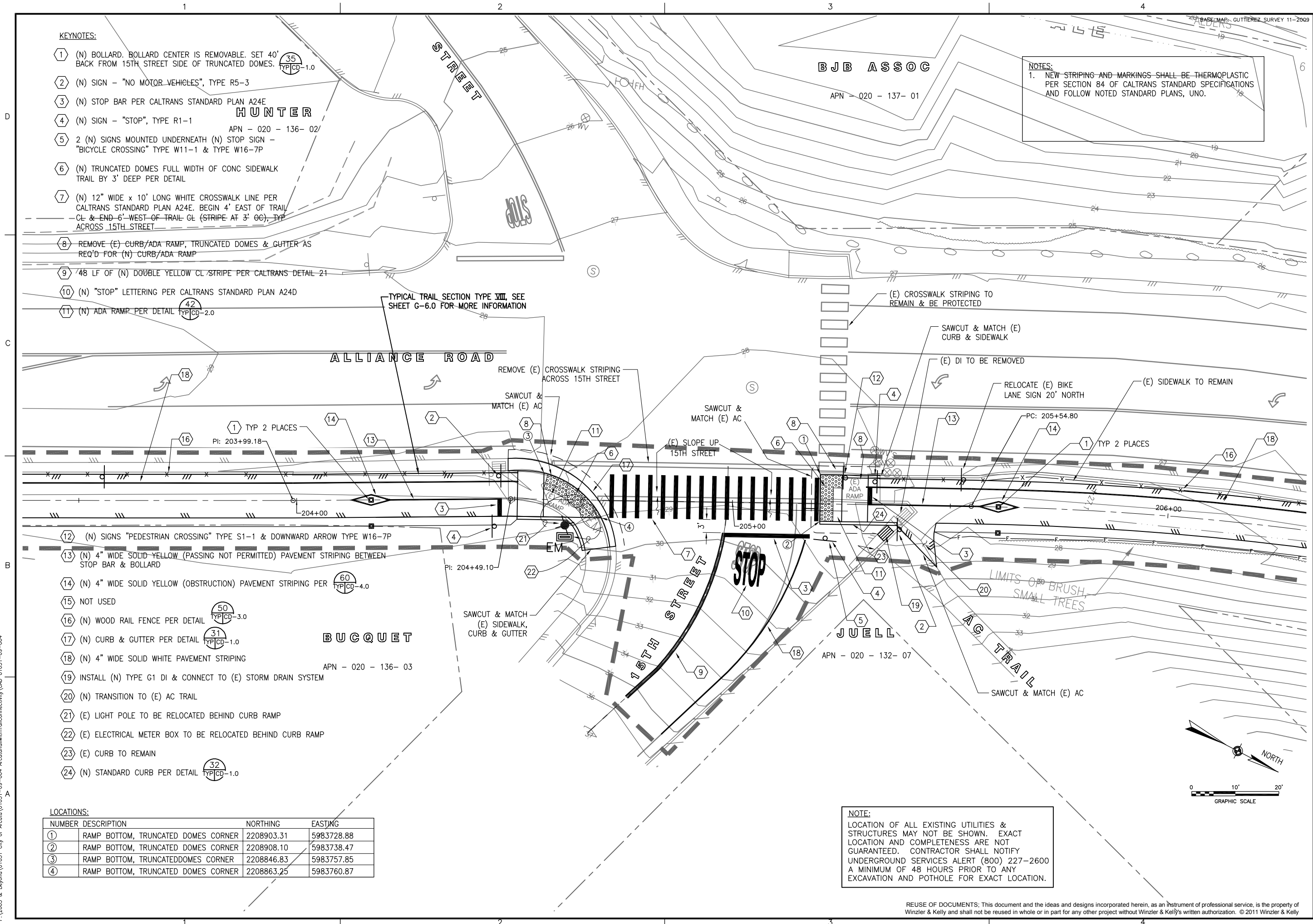
SHEET 54 OF 73

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DATE  
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SYN.

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KEYNOTES:

- 1 (N) BOLLARD. BOLLARD CENTER IS REMOVABLE. SET 40' BACK FROM 15TH STREET SIDE OF TRUNCATED DOMES. (35) TYPICD-1.0
- 2 (N) SIGN - "NO MOTOR VEHICLES", TYPE R5-3
- 3 (N) STOP BAR PER CALTRANS STANDARD PLAN A24E
- 4 (N) SIGN - "STOP", TYPE R1-1
- 5 2 (N) SIGNS MOUNTED UNDERNEATH (N) STOP SIGN - "BICYCLE CROSSING" TYPE W11-1 & TYPE W16-7P
- 6 (N) TRUNCATED DOMES FULL WIDTH OF CONC SIDEWALK TRAIL BY 3' DEEP PER DETAIL
- 7 (N) 12" WIDE x 10' LONG WHITE CROSSWALK LINE PER CALTRANS STANDARD PLAN A24E. BEGIN 4' EAST OF TRAIL CL & END 6' WEST OF TRAIL CL (STRIPE AT 3' OC), TYPE ACROSS 15TH STREET
- 8 REMOVE (E) CURB/ADA RAMP, TRUNCATED DOMES & GUTTER AS REQ'D FOR (N) CURB/ADA RAMP
- 9 48 LF OF (N) DOUBLE YELLOW CL STRIPE PER CALTRANS DETAIL 21
- 10 (N) "STOP" LETTERING PER CALTRANS STANDARD PLAN A24D
- 11 (N) ADA RAMP PER DETAIL (42) TYPICD-2.0

- 12 (N) SIGNS "PEDESTRIAN CROSSING" TYPE S1-1 & DOWNWARD ARROW TYPE W16-7P
- 13 (N) 4" WIDE SOLID YELLOW (PASSING NOT PERMITTED) PAVEMENT STRIPING BETWEEN STOP BAR & BOLLARD
- 14 (N) 4" WIDE SOLID YELLOW (OBSTRUCTION) PAVEMENT STRIPING PER (60) TYPICD-4.0
- 15 NOT USED
- 16 (N) WOOD RAIL FENCE PER DETAIL (50) TYPICD-3.0
- 17 (N) CURB & GUTTER PER DETAIL (31) TYPICD-1.0
- 18 (N) 4" WIDE SOLID WHITE PAVEMENT STRIPING
- 19 INSTALL (N) TYPE G1 DI & CONNECT TO (E) STORM DRAIN SYSTEM
- 20 (N) TRANSITION TO (E) AC TRAIL
- 21 (E) LIGHT POLE TO BE RELOCATED BEHIND CURB RAMP
- 22 (E) ELECTRICAL METER BOX TO BE RELOCATED BEHIND CURB RAMP
- 23 (E) CURB TO REMAIN
- 24 (N) STANDARD CURB PER DETAIL (32) TYPICD-1.0

LOCATIONS:

NUMBER	DESCRIPTION	NORTHING	EASTING
1	RAMP BOTTOM, TRUNCATED DOMES CORNER	2208903.31	5983728.88
2	RAMP BOTTOM, TRUNCATED DOMES CORNER	2208908.10	5983738.47
3	RAMP BOTTOM, TRUNCATED DOMES CORNER	2208846.83	5983757.85
4	RAMP BOTTOM, TRUNCATED DOMES CORNER	2208863.25	5983760.87

BJB ASSOC

APN - 020 - 137 - 01

NOTES:

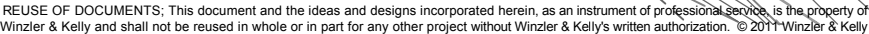
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NOTE:

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WINZLER & KELLY		PH (707) 443-8326 FAX (707) 444-8330		SUBCONSULTANT		DESCRIPTION		REVISIONS	
CITY OF ARCATA		RAIL WITH TRAIL CONNECTIVITY PROJECT		CIVIL		INTERSECTION LAYOUT		15 ST. & ALLIANCE ROAD	
JOB NUMBER		01051-09-004		SHEET		55 OF 73		C-46.0	



C-47.0	SHEET 56 OF 73	JOB NUMBER 01051-09-004	CITY OF ARCAT RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL CROSSING LAYOUT JOLLY GIANT CREEK		DES JS SUPV MP CHK PK	DRN JS	WINZLER & KELLY 633 THIRD STREET EUREKA, CA 95501-0417 PH (707) 443-8326 FAX (707) 444-8330	SUBCONSULTANT	DRAWING SCALE AS NOTED	SYM. DESCRIPTION DATE	REVISED FEB. 2011	<div>100% SUBMITTAL</div> <div>NOT FOR CONSTRUCTION</div>	APPROVED	REVISIONS
											SEAL			



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# FIRE DEPT., INC

## KEYNOTES:

- (N) "STOP AHEAD" SIGN TYPE W3-1
- (N) 4" WIDE SOLID YELLOW (OBSTRUCTION) PAVEMENT STRIPING PER TYPICAL-4.0
- (N) BOLLARDS (LOCATION AS NOTED ON PLAN). CENTER BOLLARD IS REMOVABLE.
- (N) SIGN - "NO MOTOR VEHICLES", TYPE R5-3
- (N) 4" WIDE SOLID YELLOW (PASSING NOT PERMITTED) PAVEMENT STRIPING BETWEEN STOP BAR & BOLLARD
- (N) SIGN - "STOP", TYPE R1-1
- (N) STOP BAR PER CALTRANS STANDARD PLAN A24E
- (N) CONC ADA CURB RAMP 8' WIDE OPENING W/ 8' WIDE x 3' DEEP TRUNCATED DOMES PER DETAILS
- INSTALL (N) CURB & GUTTER PER DETAIL

# CALIFORNIA

- (N) "BICYCLE CROSSING" SIGN TYPE W11-1 WITH TYPE W16-7P MOUNTED UNDERNEATH
- (N) TYPE G1 DRAINAGE INLET W/ TYPE 24" 12X BICYCLE PROOF GRATE, GR = 51.39, FL TO MATCH (E) SD PIPING
- (N) 12" WIDE x 8' LONG YELLOW CROSSWALK LINE PER CALTRANS STANDARD PLAN A24E (STRIPE AT 3' OC) W/ 12" STRIPES ON OUTSIDE
- (N) 8'± WIDE x 9'± DEEP CONC PEDESTRIAN REFUGE SIDEWALK WITH 8'± WIDE x 3' DEEP TRUNCATED DOMES EACH SIDE PER (ACTUAL DIMENSION PER CITY'S FOSTER AVENUE PLANS)
- (N) STANDARD CURB PER DETAIL
- (N) CONC ADA CURB RAMP 8' WIDE OPENING WITH 8' WIDE x 3' DEEP TRUNCATED DOMES PER DETAILS

## STATE OF CALIFORNIA

PROPOSED FOSTER AVE. IMPROVEMENTS  
(E) STREET CONFIGURATION

## FUTURE FOSTER AVE. EXTENSION

TYPICAL TRAIL SECTION TYPE X, SEE SHEET G-7.0 FOR MORE INFORMATION

## NOTES:

- NEW STRIPING AND MARKINGS SHALL BE THERMOPLASTIC PER SECTION 84 OF CALTRANS STANDARD SPECIFICATIONS AND FOLLOW NOTED STANDARD PLANS, UNO.
- PROPOSED CITY OF ARCATA FOSTER AVENUE EXTENSION IMPROVEMENTS TO SUNSET AVENUE ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT IN CONTRACT.

## ARCATA UNION SCHOOL DISTRICT

## LOCATIONS:

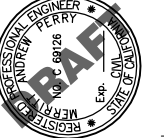
NUMBER	DESCRIPTION	NORTHING	EASTING
1	RAMP BOTTOM/TRUNCATED DOME CORNER	2210549.53	5985270.19
2	RAMP BOTTOM/TRUNCATED DOME CORNER	2210544.51	5985277.01
3	RAMP BOTTOM/TRUNCATED DOME CORNER	2210554.69	5985291.80
4	RAMP BOTTOM/TRUNCATED DOME CORNER	2210560.31	5985285.91
5	RAMP BOTTOM/TRUNCATED DOME CORNER	2210565.70	5985293.05
6	RAMP BOTTOM/TRUNCATED DOME CORNER	2210558.53	5985296.76
7	RAMP BOTTOM/CL OF TRAIL	2210568.55	5985310.97
8	BACK CONC LANDING CORNER	2210544.58	5985260.22

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EUREKA, CA 95501-0417  
PH (707) 443-8326  
FAX (707) 444-8330

DES JS  
SUPP MP  
CHK PK



CITY OF ARCATA  
RAIL WITH TRAIL  
CONNECTIVITY PROJECT  
CIVIL  
INTERSECTION LAYOUT  
SUNSET AVENUE

JOB NUMBER  
01051-09-004  
SHEET 57 OF 73

C-48.0

FEB. 2011

REVISED

SYN.

DESCRIPTION

REVISIONS

DATE

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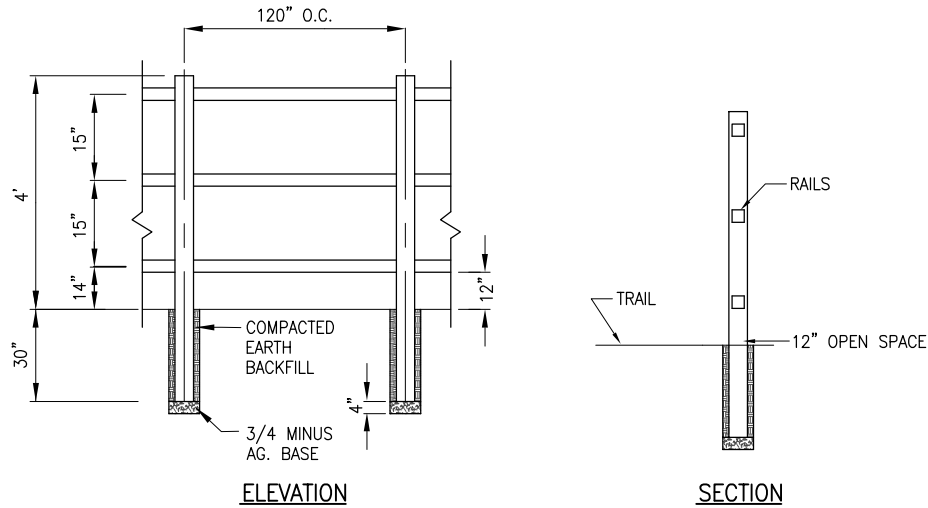
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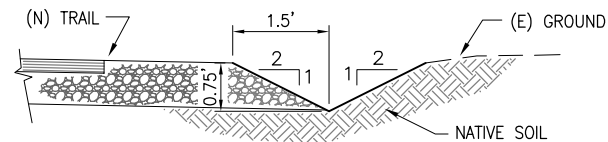


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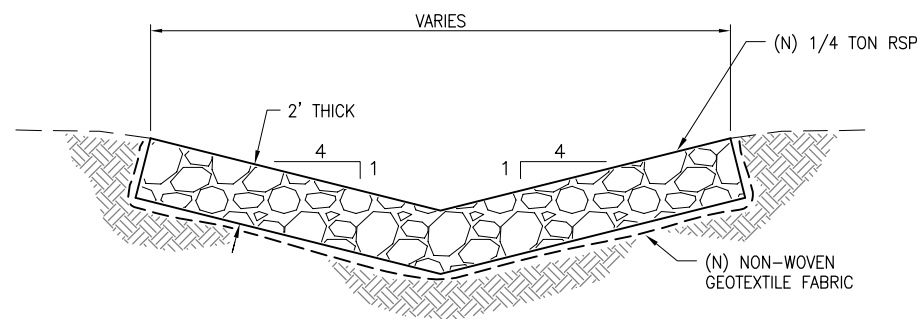
NOTE: ALL WOOD FOR RAIL FENCE TO BE FSC CERTIFIED, SEE PROJECT SPECIFICATIONS FOR MORE INFORMATION INCLUDING DIMENSIONS.

**50** **TYPICAL WOOD RAIL FENCE DETAIL**  
TYP. CD-3.0 SCALE: N.T.S.

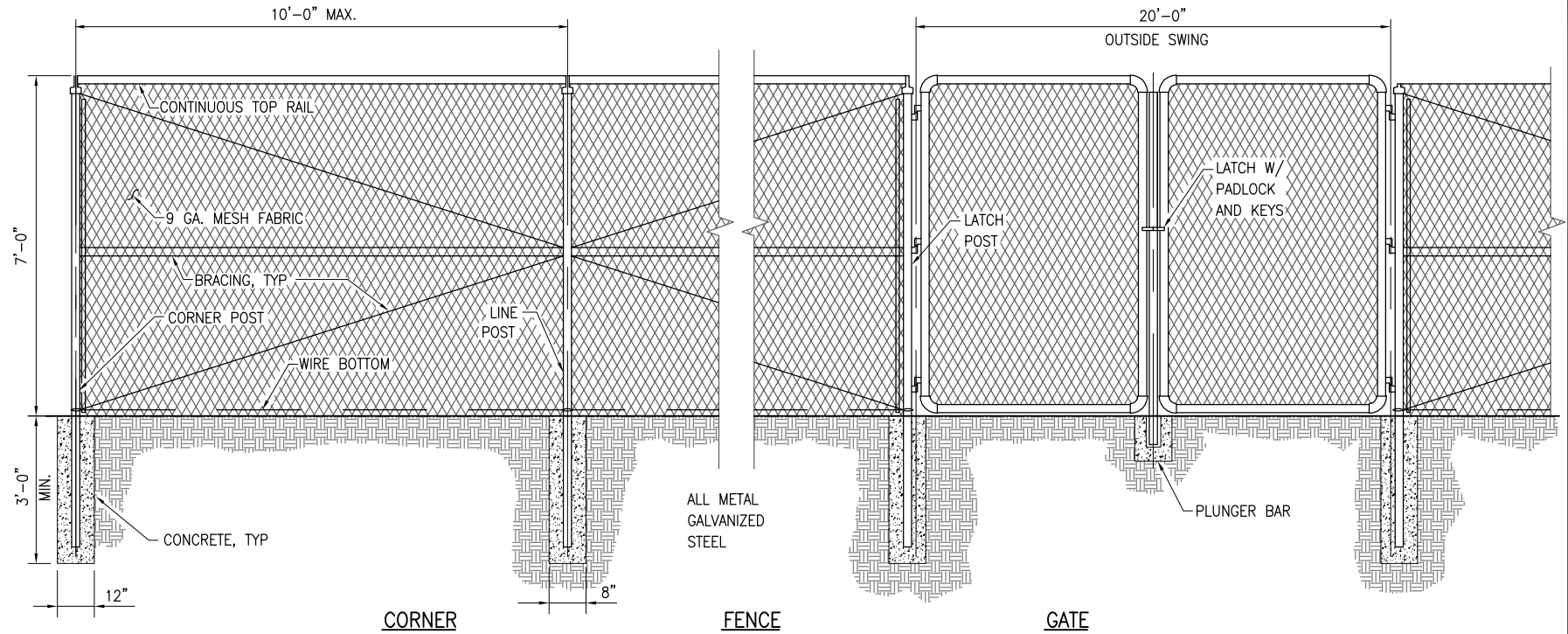


NOTES:  
1. DISTURBED AREAS SHALL BE SEEDED PER EROSION & SEDIMENT CONTROL DRAWINGS.

**52** **TYPICAL DITCH DETAIL**  
TYP. CD-3.0 SCALE: NTS



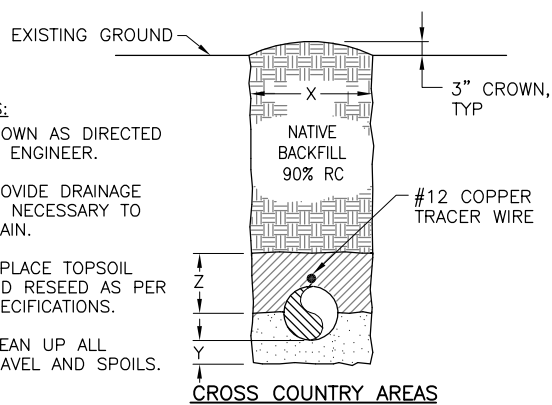
**53** **TYPICAL ROCK LINED DITCH DETAIL**  
TYP. CD-3.0 SCALE: NTS



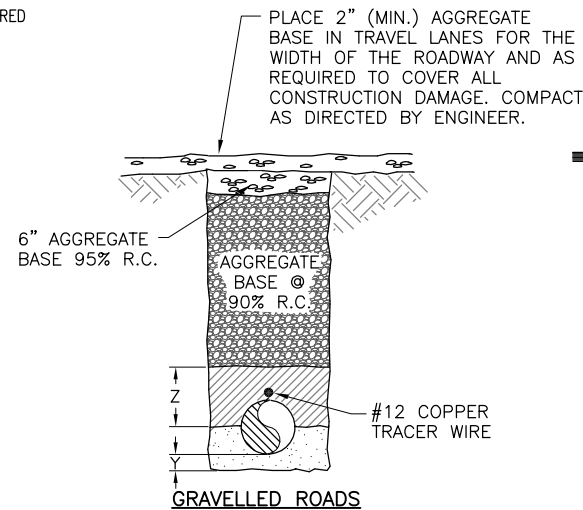
**51** **TYPICAL CHAIN LINK FENCE AND GATE DETAIL**  
TYP. CD-3.0 SCALE: N.T.S.

- NOTES:
- WIDER TRENCHES MAY REQUIRE HIGHER STRENGTH PIPE AND/OR SPECIAL BEDDING.
  - DIFFERING TRENCH WIDTHS REQUIRE PRIOR APPROVAL OF ENGINEER.
  - IN UNSTABLE SOILS INCREASE THE TRENCH WIDTH TO 5 PIPE DIAMETERS FOR PVC PIPE.
  - IN MAKING EXCAVATIONS FOR THIS PROJECT, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING & INSTALLING ADEQUATE SHEETING, SHORING & BRACING AS MAY BE NECESSARY AS A PRECAUTION AGAINST SLIDES OR CAVE-INS, AND TO PROTECT ALL (E) IMPROVEMENTS OF ANY KIND, EITHER ON PUBLIC OR PRIVATE PROPERTY, FULLY FROM DAMAGE.
  - PLACE LEAN CONCRETE BACKFILL IN TRENCH WHEN MINIMUM PIPE COVER NOT POSSIBLE.
  - BEDDING, COVER AND BACKFILL (INCLUDING AGGREGATE BASE) WILL NOT BE MEASURED SEPARATELY BUT CONSIDERED PAID UNDER OTHER CONTRACT ITEMS.

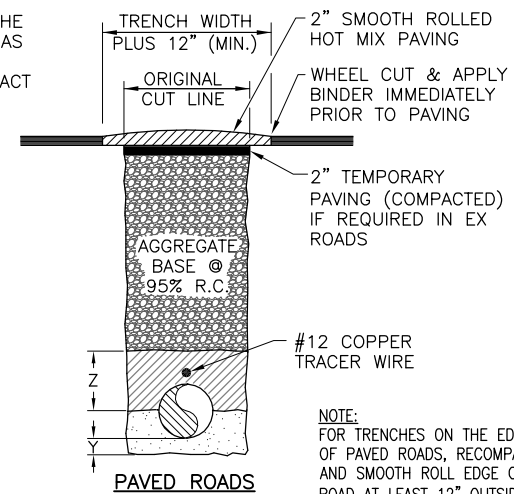
- NOTES:
- CROWN AS DIRECTED BY ENGINEER.
  - PROVIDE DRAINAGE AS NECESSARY TO DRAIN.
  - REPLACE TOPSOIL AND RESEED AS PER SPECIFICATIONS.
  - CLEAN UP ALL GRAVEL AND SPOILS.



**CROSS COUNTRY AREAS**



**GRAVELLED ROADS**



NOTE:  
FOR TRENCHES ON THE EDGE OF PAVED ROADS, RECOMPACT AND SMOOTH ROLL EDGE OF ROAD AT LEAST 12" OUTSIDE OF FINISHED EDGE BEFORE PLACING HOT MIX PAVING.

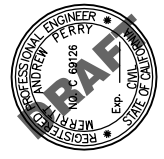
**PAVED ROADS**

**54** **TYPICAL TRENCH DETAILS**  
TYP. CD-3.0 SCALE: N.T.S.

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**WINZLER & KELLY**  
633 THIRD STREET  
EUREKA, CA 95501-0417  
PH (707) 443-8326  
FAX (707) 444-8330  
SUBCONSULTANT

DES JS SUPP  
CHK MP  
SJD PK  
DRAWING SCALE  
AS NOTED

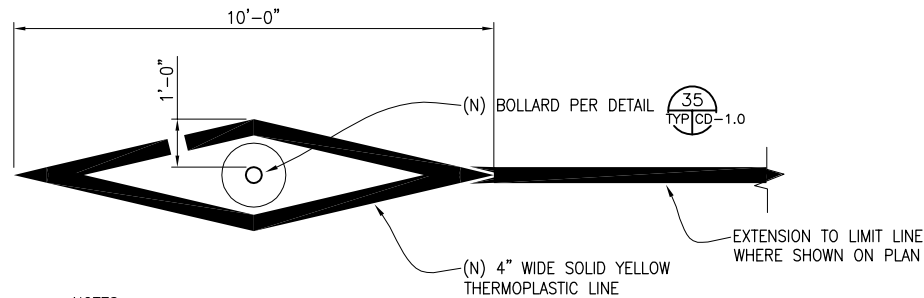


CITY OF ARCATA  
RAIL WITH TRAIL  
CONNECTIVITY PROJECT  
CIVIL DETAIL  
STANDARD DETAILS - 3

JOB NUMBER  
01051-09-004  
SHEET 60 OF 73

CD-3.0

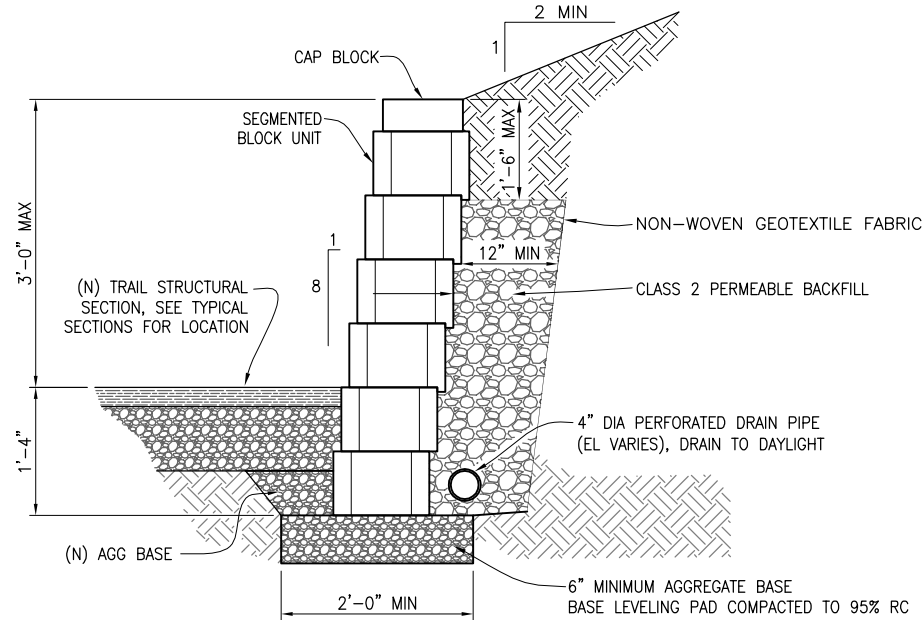
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SYN. DESCRIPTION REVISIONS  
DATE APPROVED



NOTES:  
1 STRIPING SHOWN ABOVE IS CONSISTENT WITH THE CAMUTCD, SEE SHEET G-4.0, NOTE 14

**60** **TYPICAL OBSTRUCTION STRIPING DETAIL**

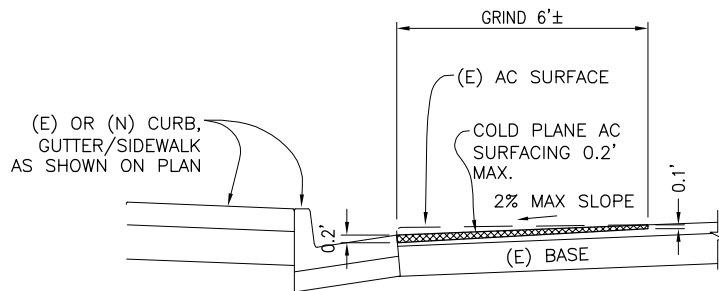
TYP. CD-4.0 SCALE: NTS



NOTE:  
1. SEE PROJECT SPECIFICATIONS FOR MORE INFORMATION

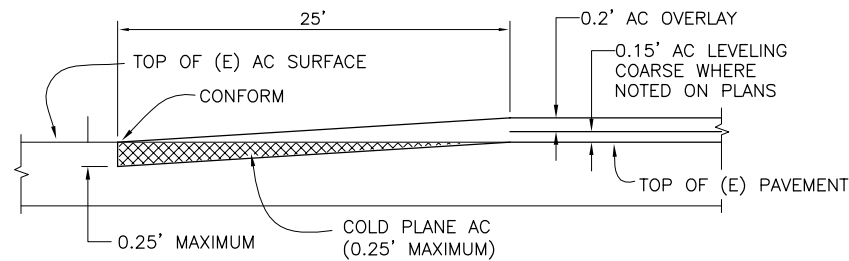
**61** **TYPICAL SEGMENTED BLOCK RETAINING WALL DETAIL**

TYP. CD-4.0 SCALE: NTS



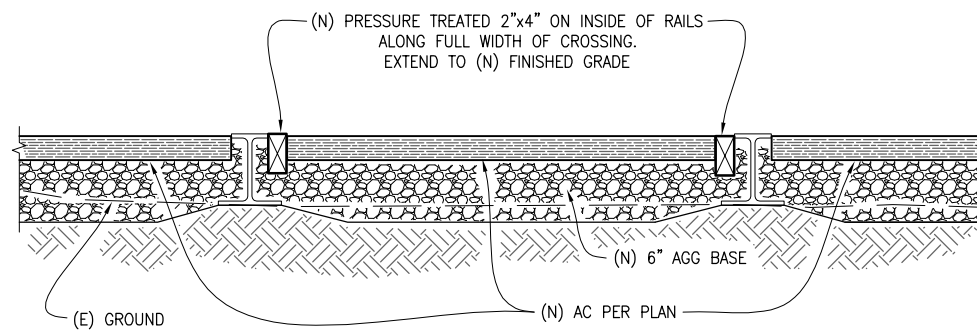
**62** **TYPICAL EDGE GRINDING DETAIL**

TYP. CD-4.0 SCALE: NTS



**63** **TYPICAL PAVING CONFORM TO EXISTING PAVEMENT**

TYP. CD-4.0 SCALE: NTS



**64** **TYPICAL RAILROAD CROSSING DETAIL**

TYP. CD-4.0 SCALE: NTS

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633 THIRD STREET EUREKA, CA 95501-0417		SUBCONSULTANT	
DES	JS	SJD	PK
SUPP	MP	CHK	PK
DRAWING SCALE AS NOTED			
CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT CIVIL DETAIL STANDARD DETAILS - 4			
JOB NUMBER 01051-09-004			
SHEET 61 OF 73			
CD-4.0			

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C

B

A

1. DESIGN BASIS
- 1.1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE CALTRANS BRIDGE DESIGN SPECIFICATIONS AND GEOTECHNICAL REPORT "ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT, ARCATA, CALIFORNIA" BY BLACKBURN CONSULTING. REFER TO THIS REPORT FOR ALL GEOTECHNICAL INFORMATION AND RECOMMENDATIONS.

1.2. STRUCTURE DESIGNED FOR SEISMIC LOADS BASED ON THE FOLLOWING PARAMETERS:  
ARS CURVE PER GEOTECHNICAL REPORT

1.3. DESIGN LIVE LOADS: 90 PSF

1.4. SPECIAL LOADS: AASHTO H-5 LOADING WITH 80% OF WEIGHT PLACED ON THE FORWARD AXLE.
2. GENERAL NOTES
- 2.1. ALL WORK TO CONFORM TO REQUIREMENTS OF ALL PUBLICATIONS AND NOTES LISTED UNDER "DESIGN BASIS".

2.2. CIVIL DRAWINGS AND ALL OTHER DRAWINGS AS REQUIRED SHALL BE USED IN CONJUNCTION WITH STRUCTURAL DRAWINGS TO DEVELOP DETAILS AND DIMENSIONS FOR SHOP DRAWINGS, FABRICATION, ERECTION AND CONSTRUCTION.

2.3. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND ALL DIMENSIONS IN FIELD PRIOR TO START OF CONSTRUCTION AND PROTECT AND MAINTAIN ALL EXISTING CONSTRUCTION AND ITS CONTENTS IN FULL.

2.4. THE CONTRACTOR SHALL MAINTAIN A SET OF LATEST REVIEWED SHOP DRAWINGS ON JOB SITE.

2.5. THE STRUCTURE HAS BEEN DESIGNED TO BE STABLE AND SELF SUPPORTING AFTER THE CONSTRUCTION IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY FOR THE STRUCTURES STABILITY DURING CONSTRUCTION. THIS RESPONSIBILITY ALSO INCLUDES BUT IS NOT LIMITED TO METHOD AND SEQUENCE OF ERECTION, TEMPORARY SHORING AND TEMPORARY BRACING.

2.6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

2.7. SHOULD ANY INFORMATION ON THE STRUCTURAL DRAWINGS CONFLICT WITH THE SPECIFICATIONS OR ANY OTHER PART OF THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND AN INTERPRETATION WILL BE GIVEN.

2.8. ALL SECTIONS, DETAILS, NOTES, DIMENSIONS AND CONDITIONS ARE APPLICABLE AT ANY OTHER LOCATION WHERE CONDITIONS AND DETAILS ARE SIMILAR BUT ARE NOT SPECIFICALLY NOTED AS SUCH OR ARE NOT SHOWN.

2.9. FOR QUALITY CONTROL INSPECTION AND TESTING REQUIREMENTS DURING CONSTRUCTION, SEE SPECIFICATIONS AND "SCHEDULE OF SPECIAL INSPECTIONS".
3. FOUNDATION NOTES
- 3.1. SOIL BEARING CAPACITY USED IN THE DESIGN OF FOUNDATIONS:  
  
2000 PSF AS RECOMMENDED BY THE GEOTECHNICAL REPORT BY BCI INC. JUNE 2010.

3.2. ALL FOOTINGS TO BEAR ON NATURAL UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL HAVING MINIMUM BEARING CAPACITY AS INDICATED.

3.3. ALL COMPACTED STRUCTURAL FILL SHALL CONFORM TO ALL RECOMMENDATIONS CONTAINED IN THE PROJECT GEOTECHNICAL REPORT.

3.4. PLACEMENT OF ALL COMPACTED FILL AND COMPACTION OF SUBGRADE SHALL BE UNDER FULL TIME DIRECTION OF A QUALIFIED GEOTECHNICAL ENGINEER. CONCRETE SLABS AND FOOTINGS SHALL NOT BE PLACED UNTIL FILL AND SUBGRADE HAVE BEEN CHECKED IN PLACE AND APPROVED BY THE GEOTECHNICAL ENGINEER.

3.5. IF VERY SOFT "BAY MUDS" OR ORGANICS ARE PRESENT BELOW BRIDGE FOUNDATIONS OR WHERE COMPACTION IS UNACHIEVABLE DUE TO PUMPING SOILS, A LAYER OF GEOGRID, (TENSAR BX1200 OR EQUIVALENT) SHALL BE PLACED BEFORE PLACING FILL.
4. CONCRETE NOTES
- 4.1. ALL WORK TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING PUBLICATIONS:

4.1.1. ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-LATEST EDITION) AND "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315-LATEST EDITION).

4.1.2. "SPECIFICATION FOR WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT" (LATEST EDITION) BY THE WIRE REINFORCEMENT INSTITUTE, INC.

4.2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS:

8000 PSI (NORMAL WEIGHT) AT PILES

4000 PSI (NORMAL WEIGHT) AT ALL OTHER ELEMENTS

AIR CONTENT: 6% +/- 1.5% (CONCRETE EXPOSED TO FREEZING AND CONCRETE EXPOSED TO DEICER CHEMICALS)
- MAXIMUM SLUMP: 5" (3" AT SLOPING SURFACES; REFER TO SPECIFICATIONS FOR SLUMP LIMITS).

PRIOR TO PLACING CONCRETE, MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW.

4.3. ALL BAR REINFORCING FOR CONCRETE SHALL CONFORM TO ASTM A 615 GRADE 60 (DEFORMED). REINFORCING SHOWN ON DRAWING TO BE WELDED SHALL CONFORM TO ASTM A 706 GRADE 60 (DEFORMED) BARS SPECIALLY FORMULATED TO BE WELDABLE.

4.4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.

4.5. UNLESS OTHERWISE SHOWN, LOCATE REINFORCING BARS WITH FOLLOWING CLEAR DIMENSION TO FACE OF CONCRETE:

CONCRETE CAST ON GROUND: 3" CLEAR

CONCRETE TOPPING SLAB AT PRE-CAST BRIDGES: 1½" CLEAR

ALL OTHER LOCATIONS: 2" CLEAR, UNO

4.6. CONCRETE ACCESSORIES MUST BE ADEQUATE TO MAINTAIN REINFORCING ACCURATELY IN PLACE AND BE NON-CORROSIVE, NON-STAINING TYPE.

4.7. LAP ALL BAR REINFORCING IN CONCRETE ELEMENTS AS SHOWN IN "REINFORCING CONCRETE LAP SCHEDULE". IN BEAMS, GRADE BEAMS AND GIRDERS, SPLICE TOP BARS AT MIDDLE OF SPAN BETWEEN SUPPORTS AND SPLICE BOTTOM BARS AT SUPPORTS (UNLESS OTHERWISE SHOWN).

4.8. SAW-CUT CONTROL JOINTS IMMEDIATELY AFTER CONCRETE HAS SET SUFFICIENTLY SO THAT CUTTING DOES NOT PRODUCE SHREDDING OF THE CONCRETE, BUT BEFORE CONCRETE HAS HAD A CHANCE TO CRACK DUE TO INITIAL SHRINKAGE. THE CUTTING PERIOD WILL VARY ACCORDING TO THE RATE OF SETTING OF THE CONCRETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO CUT THESE JOINTS AT THE PROPER TIME AND USING THE PROPER PROCEDURE TO MINIMIZE SHRINKAGE CRACKING AND TO PRODUCE CLEAN, STRAIGHT JOINTS.

4.9. REFERENCE SPECIFICATIONS FOR CONCRETE CURING AND PROTECTION. BEGIN CONCRETE CURING AS SOON AS FINISHING OPERATIONS ARE COMPLETE (WITHIN TWO HOURS).

4.10. SHORE CONCRETE BEAMS, CANTILEVERS AND SUPPORTED SLABS DIRECTLY TO FIRM BEARING FOR AS LONG AS PRACTICAL (MINIMUM 28 DAYS) TO MINIMIZE CREEP AND DEFLECTION.

4.11. LIQUID MEMBRANE FORMING CURING COMPOUNDS SHALL COMPLY WITH ASTM C 309, TYPE I, CLASS A.

5. STEEL NOTES

5.1. ALL WORK TO CONFORM TO THE REQUIREMENTS OF THE FOLLOWING PUBLICATIONS:

5.1.1. AISC 360-05 "DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (MANUAL OF STEEL CONSTRUCTION - 13TH EDITION)

5.2. ALL STEEL TUBES, ROUND AND SHAPED, SHALL CONFORM TO ASTM A500, GRADE B.

5.3. ALL STEEL PILINGS SHALL CONFORM TO ASTM A847.

5.4. ALL PLATES AND MISCELLANEOUS IRON SHALL CONFORM TO ASTM A36 (EXCEPT AS NOTED).

5.5. ALL BOLTED CONNECTIONS TO USE 3/4" DIAMETER A307 BOLTS UNLESS NOTED OTHERWISE.

5.6. ALL WELDS TO STRUCTURAL STEEL TO CONFORM TO "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1 - LATEST EDITION). ALL WELDS TO COLD-FORMED SHEET STEEL TO CONFORM TO "STRUCTURAL WELDING CODE - SHEET STEEL" (AWS D1.3- LATEST EDITION).


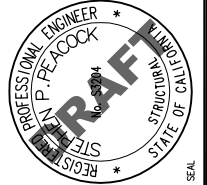
5.7. ALL STEEL EXCEPT PILINGS SHALL BE GALVANIZED AND THEN PAINTED.

5.8. GALVANIZING SHALL CONFORM TO ASTM A 123 OR ASTM A 153, AS APPLICABLE.

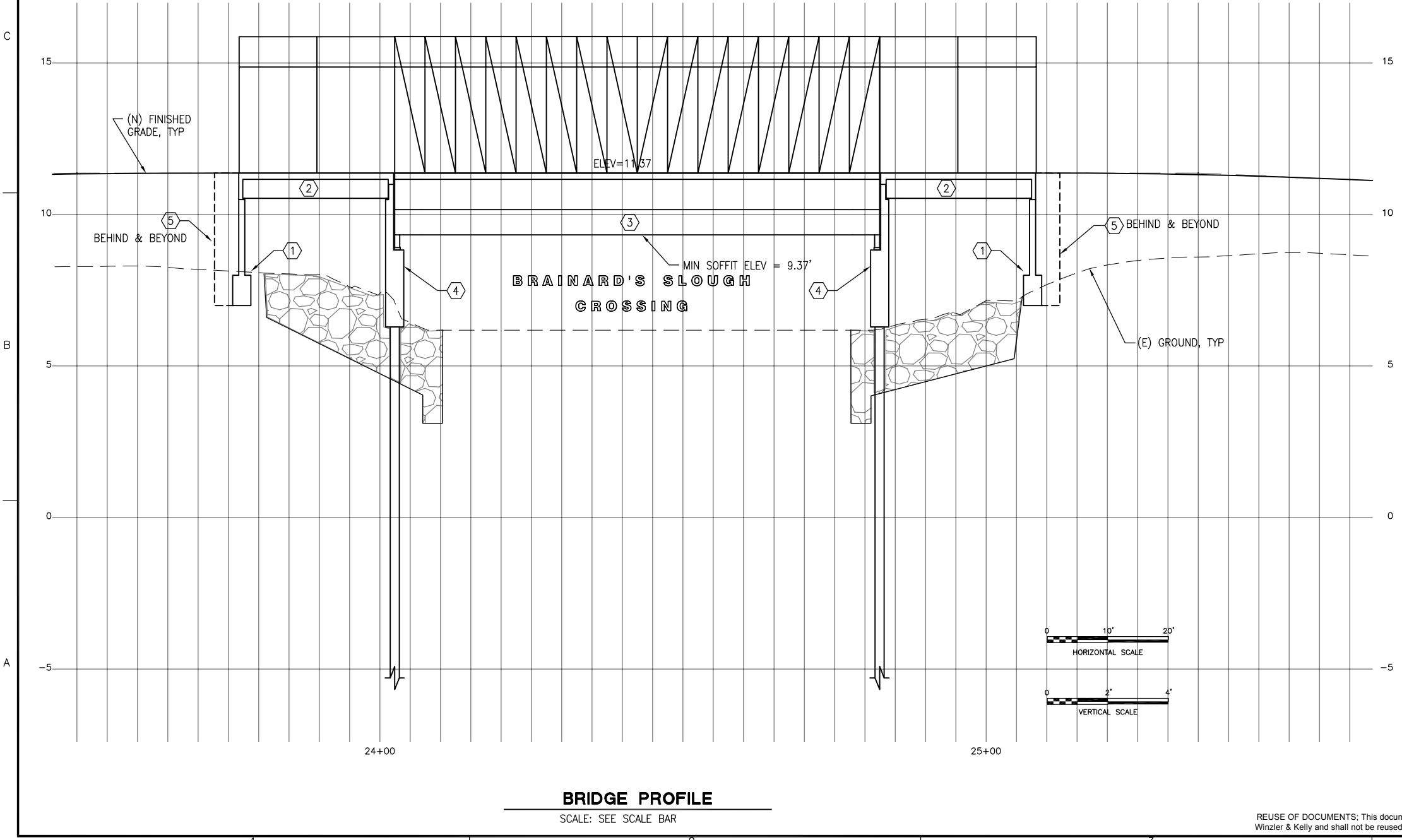
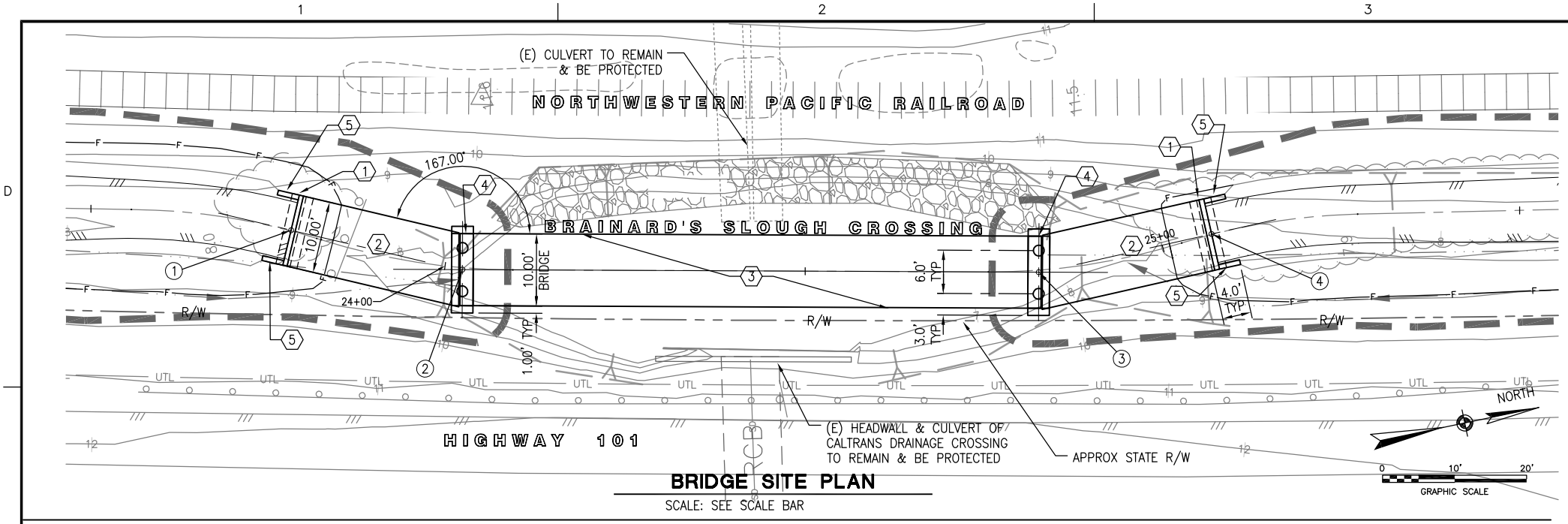
5.5. FIELD WELDING TO GALVANIZED STEEL: PRIOR TO FIELD WELDING CONNECTION, ZINC COATING AT ALL WELD CONNECTION AREAS SHALL BE REMOVED BY BURNING WITH OXYGEN FUEL GAS TORCH, SHOT BLASTING OR GRINDING TO BARE STEEL. APPLY A MINIMUM OF 2 COATS OF ZINC-RICH PAINT AFTER CLEANING COMPLETED WELD.

6. PRE-MANUFACTURED BRIDGE

6.1. PROVIDE AND INSTALL FULLY FUNCTIONAL PRE-MANUFACTURED BRIDGE PER THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.

6.2. BRIDGES TO BE DESIGNED BY A CALIFORNIA PROFESSIONAL ENGINEER AND CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND TO SUPPORT OWN WEIGHT, IMPOSED LIVE, WIND, AND SEISMIC LOADS. SEE "DESIGN BASIS" IN STRUCTURAL GENERAL NOTES FOR STRUCTURAL CRITERIA. SUBMIT DESIGN FOR REVIEW PRIOR TO FABRICATION. CONTRACTOR TO INCLUDE MULTIPLE STRUCTURAL REVIEWS IN PROJECT SCHEDULE. ALLOW 2 WEEKS FOR EACH REVIEW.
- | CONCRETE REINFORCEMENT<br>CLASS B LAP SPLICE SCHEDULE (inches) |    |    |    |    |    |    |    |     |  |
|--|----|----|----|----|----|----|----|-----|--|
| F'c (psi)  | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 |  |
| 2800   | 23 | 31 | 39 | 47 | 68 | 78 | 88 | 99  |  |
| 3000   | 21 | 28 | 36 | 43 | 62 | 71 | 80 | 90  |  |
| 4000   | 18 | 25 | 31 | 37 | 54 | 62 | 70 | 78  |  |
| 5000   | 17 | 22 | 28 | 33 | 48 | 55 | 62 | 70  |  |
| 6000   | 15 | 20 | 25 | 30 | 44 | 50 | 57 | 64  |  |
- |   |  |   |    |  |       |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|---|----|--|-------|---|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| REVISED   |  | FEB. 2011                               |    | 100% SUBMITTAL<br>NOT FOR CONSTRUCTION   |       | DATE  |  | APPROVED    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |   |    |  |       | SYN.  |  | DESCRIPTION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <br>WINZLER & KELLY<br>633 THIRD STREET<br>EUREKA, CA 95501<br>SUBCONSULTANT |  | PH (707) 443-8326<br>FAX (707) 444-8330 |    | REVISIONS  |       |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  | 443-8326<br>444-8330                    |    |  |       |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DES   |  | SJD                                     |    | DRAWING SCALE<br>AS NOTED  |       |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JS  |  | PK                                      |    |  |       |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SUPP  |  | SPP                                     |    | CITY OF ARCATA<br>RAIL WITH TRAIL<br>CONNECTIVITY PROJECT<br>STRUCTURAL<br>GENERAL NOTES |       |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |   |    |  |       |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JOB NUMBER  |  | 01051-09-004                            |    |  |       |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SHEET   |  | 62                                      | OF | 73   | S-1.0 |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |   |    |  |       |   |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |
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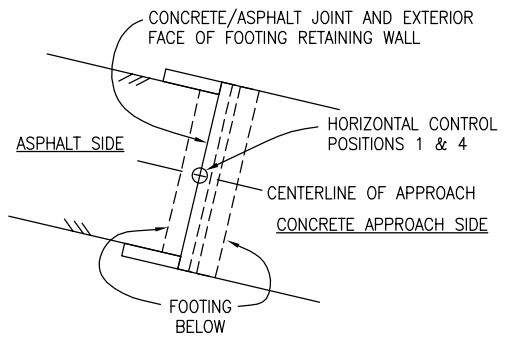
BASE MAP: GUTIERREZ SURVEY 4, 2010 OVER CALTRANS PHOTOGRAMMETRY

NOTES:  
1. DIMENSIONS SHOWN ARE TYPICAL. APPROACH SPANS AND FOOTINGS ARE SYMMETRICAL ABOUT CENTER LINE OF TRAIL.

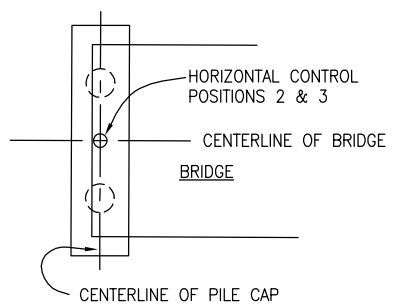
LOCATIONS:

NUMBER	DESCRIPTION	NORTHING	EASTING
①	CL OF APPROACH (SEE FOOTING DIAGRAM)	2192863.10	5985413.97
②	CL OF BRIDGE (SEE PILE CAP DIAGRAM)	2192885.27	5985424.17
③	CL OF BRIDGE (SEE PILE CAP DIAGRAM)	2192963.52	5985440.80
④	CL OF APPROACH (SEE FOOTING DIAGRAM)	2192988.07	5985440.50

- KEYNOTES:
- ① (N) CAST-IN-PLACE CONC RETAINING FOOTING PER DETAIL ① TYPIS-8.0
  - ② (N) PRECAST CONC BRIDGE DECKS W/ PEDESTRIAN GUARDRAILS AND CONCRETE OVERLAY, TYP ② TYPIS-8.1
  - ③ (N) PRE-MANUFACTURED 80 FT LONG BY 10 FT WIDE FIBERGLASS BRIDGE W/ PEDESTRIAN GUARDRAILS AND TIMBER DECKING ③ TYPIS-8.1
  - ④ (N) CAST-IN-PLACE PILE CAP ON PRECAST DRIVEN PILES PER ④ TYPIS-8.0
  - ⑤ (N) CAST-IN-PLACE WING WALL PER DETAIL ⑤ TYPIS-8.1



**TYPICAL APPROACH FOOTING DIAGRAM**  
SCALE: NTS



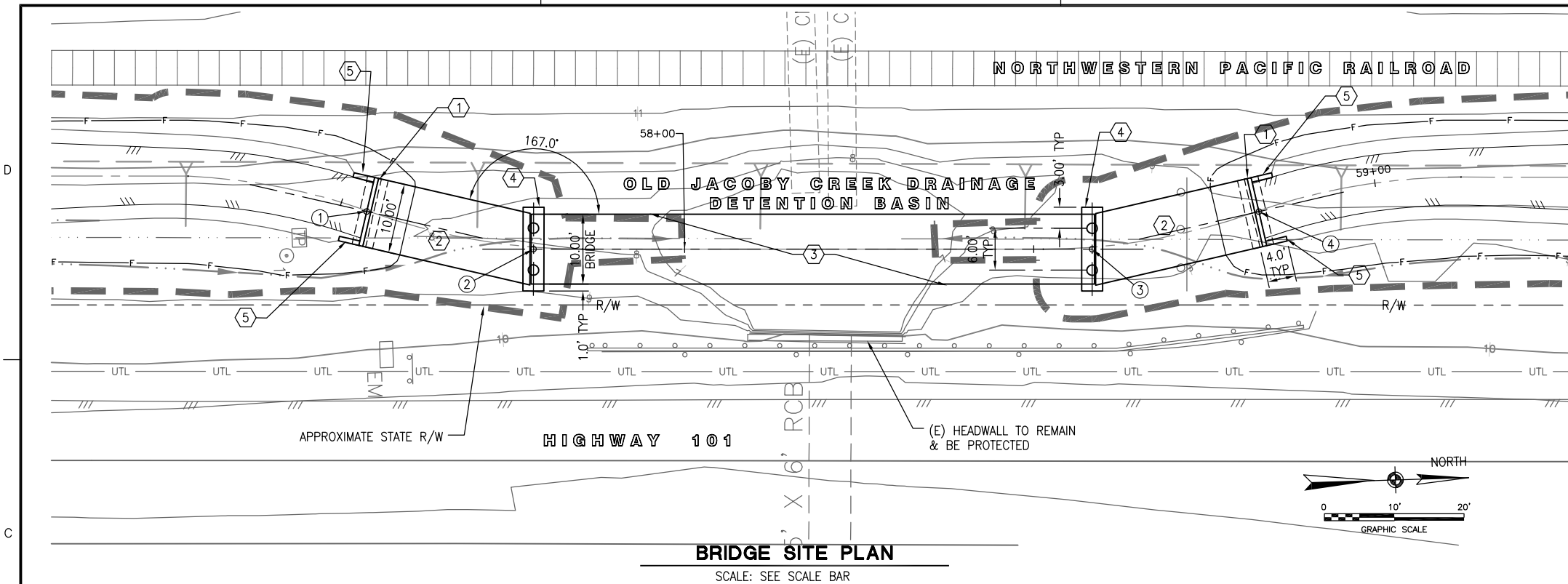
**TYPICAL PILE CAP DIAGRAM**  
SCALE: NTS

NOTE:  
LOCATION OF ALL EXISTING UTILITIES & STRUCTURES MAY NOT BE SHOWN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

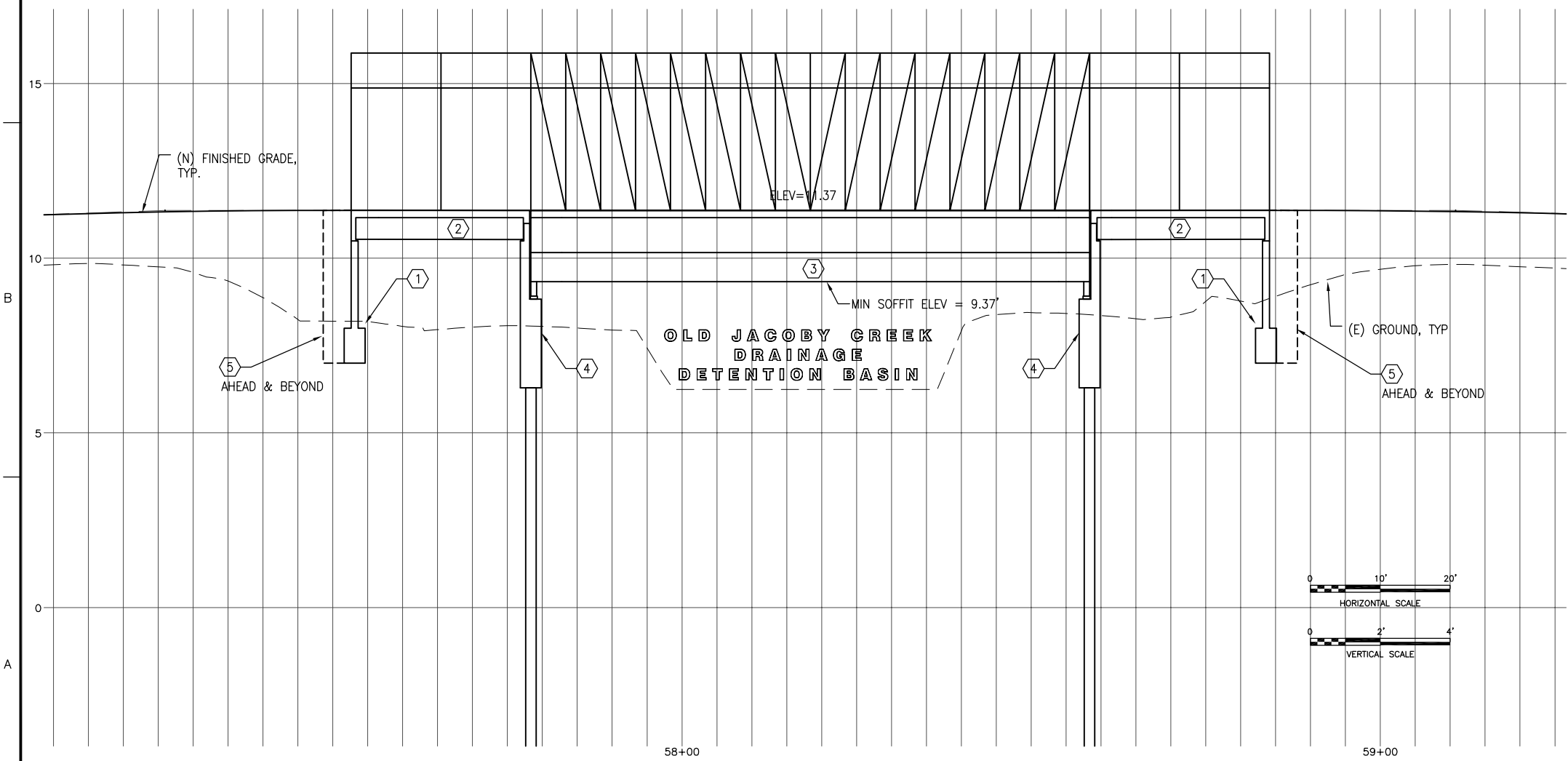
REVISED	FEB. 2011	100% SUBMITTAL	NOT FOR CONSTRUCTION	SYMBOL	DESCRIPTION	REVISIONS	DATE	APPROVED	
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DES	SUPP	SOG	CHK	SUD	PK	DRAWING SCALE AS NOTED		B	
CITY OF ARCATA		RAIL WITH TRAIL CONNECTIVITY PROJECT		STRUCTURAL		BRAINARD'S SLOUGH CROSSING SITE PLAN & PROFILE		A	
JOB NUMBER		01051-09-004		SHEET		63 OF 73		S-2.0	



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**BRIDGE SITE PLAN**  
SCALE: SEE SCALE BAR



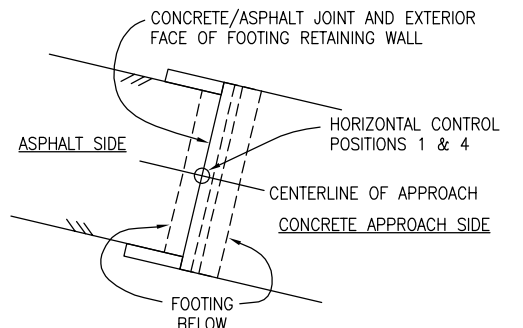
**BRIDGE PROFILE**  
SCALE: SEE SCALE BAR

**NOTES:**  
1. DIMENSIONS SHOWN ARE TYPICAL. APPROACH SPANS AND FOOTINGS ARE SYMMETRICAL ABOUT CENTER LINE OF TRAIL.

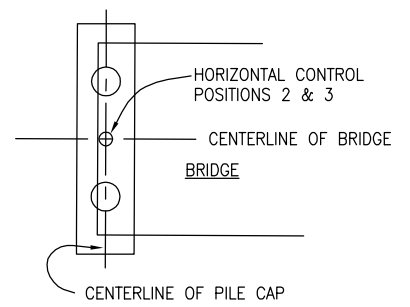
**LOCATIONS:**

NUMBER	DESCRIPTION	NORTHING	EASTING
①	CL OF APPROACH (SEE FOOTING DIAGRAM)	2196227.07	5985611.48
②	CL OF BRIDGE (SEE PILE CAP DIAGRAM)	2196250.77	5985617.61
③	CL OF BRIDGE (SEE PILE CAP DIAGRAM)	2196330.73	5985620.14
④	CL OF APPROACH (SEE FOOTING DIAGRAM)	2196354.77	5985615.51

- KEYNOTES:**
- ① (N) CAST-IN-PLACE CONC RETAINING FTG PER DETAIL TYPIS-8.0
  - ② (N) PRECAST CONC BRIDGE DECKS W/ PEDESTRIAN GUARDRAILS AND CONCRETE OVERLAY, TYP TYPIS-8.1
  - ③ (N) PRE-MANUFACTURED 80 FT LONG BY 10 FT WIDE FIBERGLASS BRIDGE W/ PEDESTRIAN GUARDRAILS AND TIMBER DECKING TYPIS-8.1
  - ④ (N) CAST-IN-PLACE PILE CAP ON PRECAST DRIVEN PILES PER TYPIS-8.0
  - ⑤ (N) CAST-IN-PLACE WING WALL PER DETAIL TYPIS-8.1



**TYPICAL APPROACH FOOTING DIAGRAM**  
SCALE: NTS



**TYPICAL PILE CAP DIAGRAM**  
SCALE: NTS

**NOTE:**  
LOCATION OF ALL EXISTING UTILITIES & STRUCTURES MAY NOT BE SHOWN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POT HOLE FOR EXACT LOCATION.

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WINZLER & KELLY

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EUREKA, CA 95501-0417  
PH (707) 443-8326  
FAX (707) 444-8330  
SUBCONSULTANT

DES

SOG

DRN

SJD

CHK

PK

DRAWING SCALE  
AS NOTED

PROFESSIONAL ENGINEER  
N. P. PEACOCK  
REGISTERED  
STATE OF CALIF.  
No. 50914

CITY OF ARCATA  
RAIL WITH TRAIL  
CONNECTIVITY PROJECT  
STRUCTURAL  
OLD JACOBY CREEK CROSSING  
SITE PLAN & PROFILE

JOB NUMBER  
01051-09-004

SHEET 64 OF 73

S-3.0

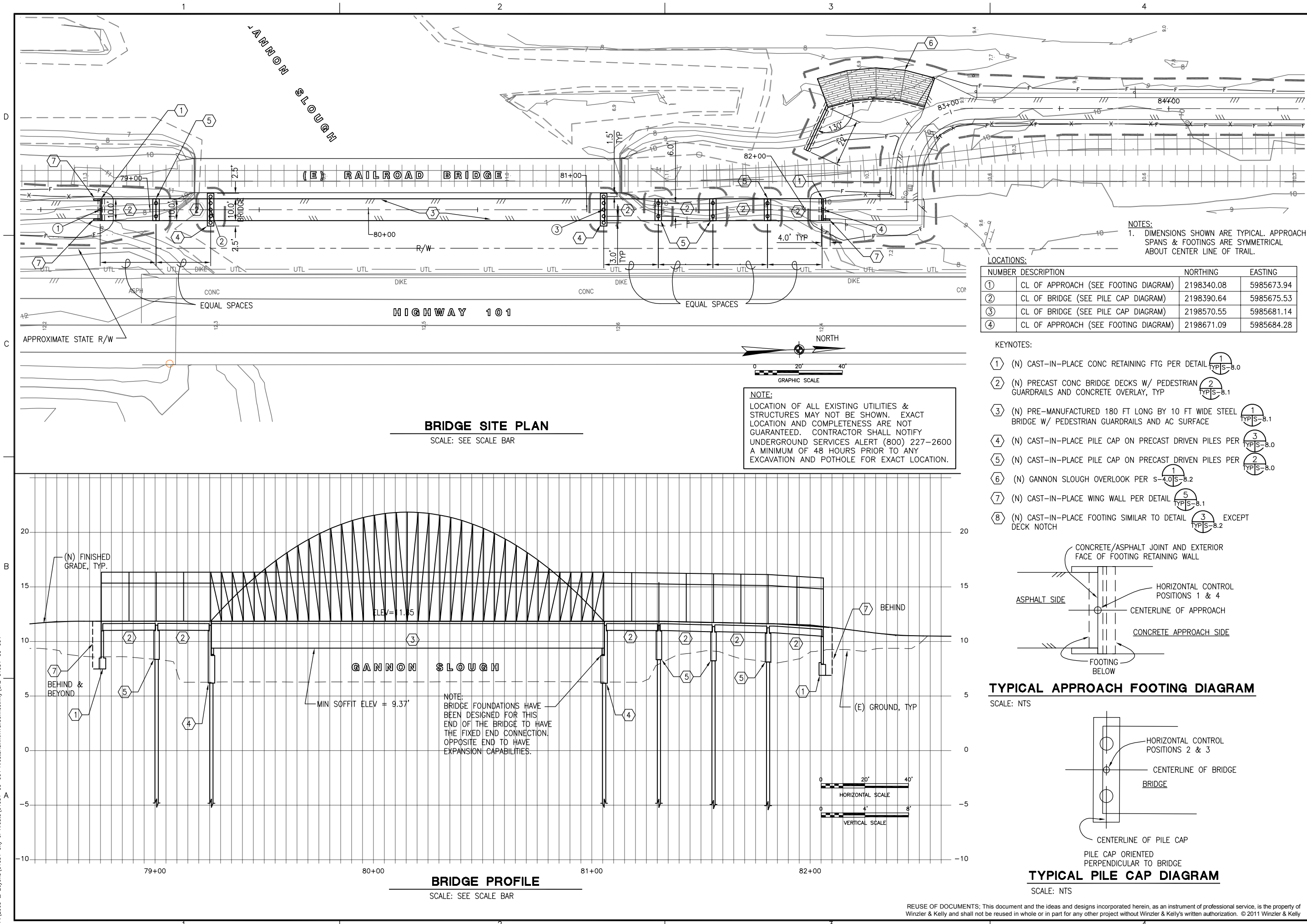
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DATE

DESCRIPTION

REVISIONS

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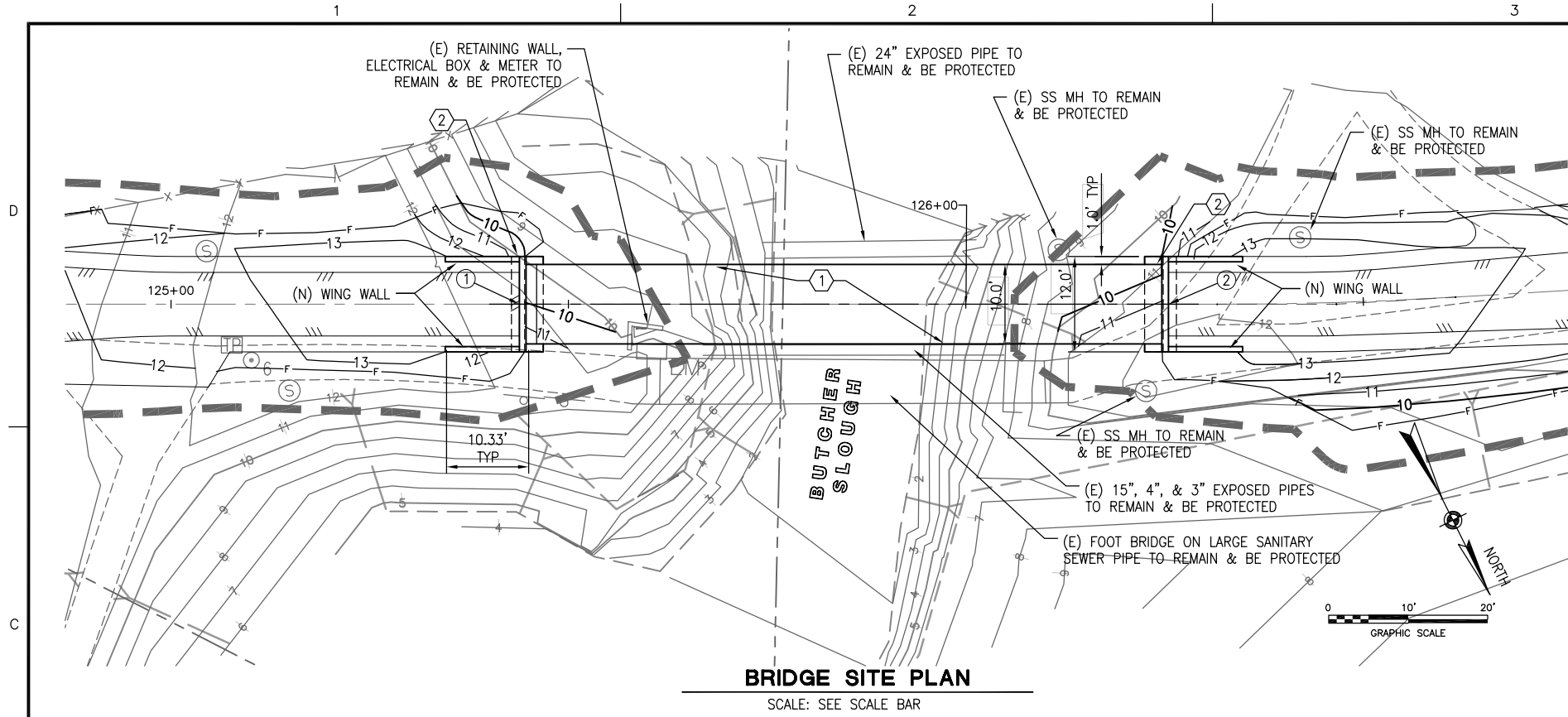
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CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT STRUCTURAL GANNON SLOUGH BRIDGE SITE PLAN & PROFILE	DES	SOG	DN	SJD	PK	DRAWING SCALE AS NOTED	REVISIONS SYMBOL DATE APPROVED
	SUPP	SPP	CHK				
JOB NUMBER 01051-09-004							100% SUBMITTAL NOT FOR CONSTRUCTION
SHEET 65 OF 73							
S-4.0							

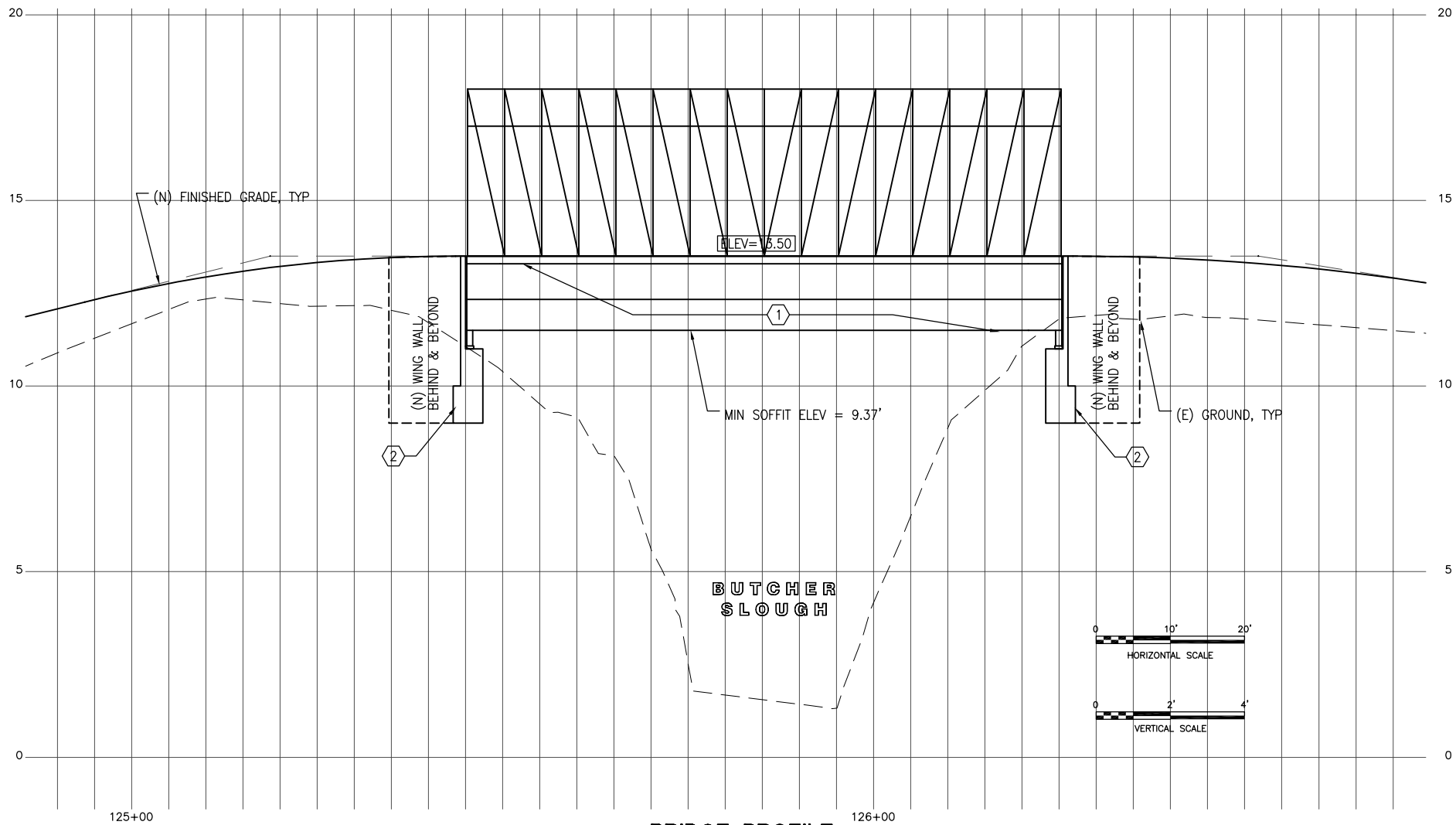
WINZLER & KELLY  
633 THIRD STREET  
EUREKA, CA 95501-0417  
PH (707) 443-8326  
FAX (707) 444-8330  
SUBCONSULTANT

PROFESSIONAL ENGINEER  
REGISTERED  
STEVEN P. PEACOCK  
No. 5094  
STRUCTURAL  
STATE OF CALIF.  
SEAL

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**BRIDGE SITE PLAN**  
SCALE: SEE SCALE BAR



**BRIDGE PROFILE**  
SCALE: SEE SCALE BAR

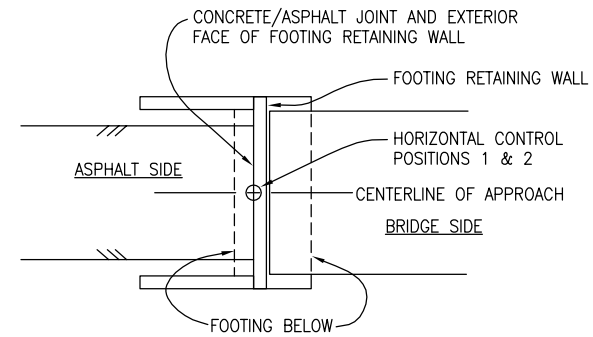
**NOTES:**  
1. DIMENSIONS SHOWN ARE TYPICAL.

**KEYNOTES:**

- ① (N) PRE-MANUFACTURED 80 FT LONG BY 10 FT WIDE FIBERGLASS BRIDGE W/ PEDESTRIAN GUARDRAILS AND TIMBER DECKING 1 TYP S-8.1
- ② (N) CAST-IN-PLACE BRIDGE SPREAD FOOTING PER 7 TYP S-8.1 WITH WING WALLS PER 5 TYP S-8.1

**LOCATIONS:**

NUMBER	DESCRIPTION	NORTHING	EASTING
①	CL OF BRIDGE (SEE FOOTING DIAGRAM)	2202118.36	5983482.64
②	CL OF BRIDGE (SEE FOOTING DIAGRAM)	2202154.79	5983409.55



FOOTING PERPENDICULAR TO BRIDGE

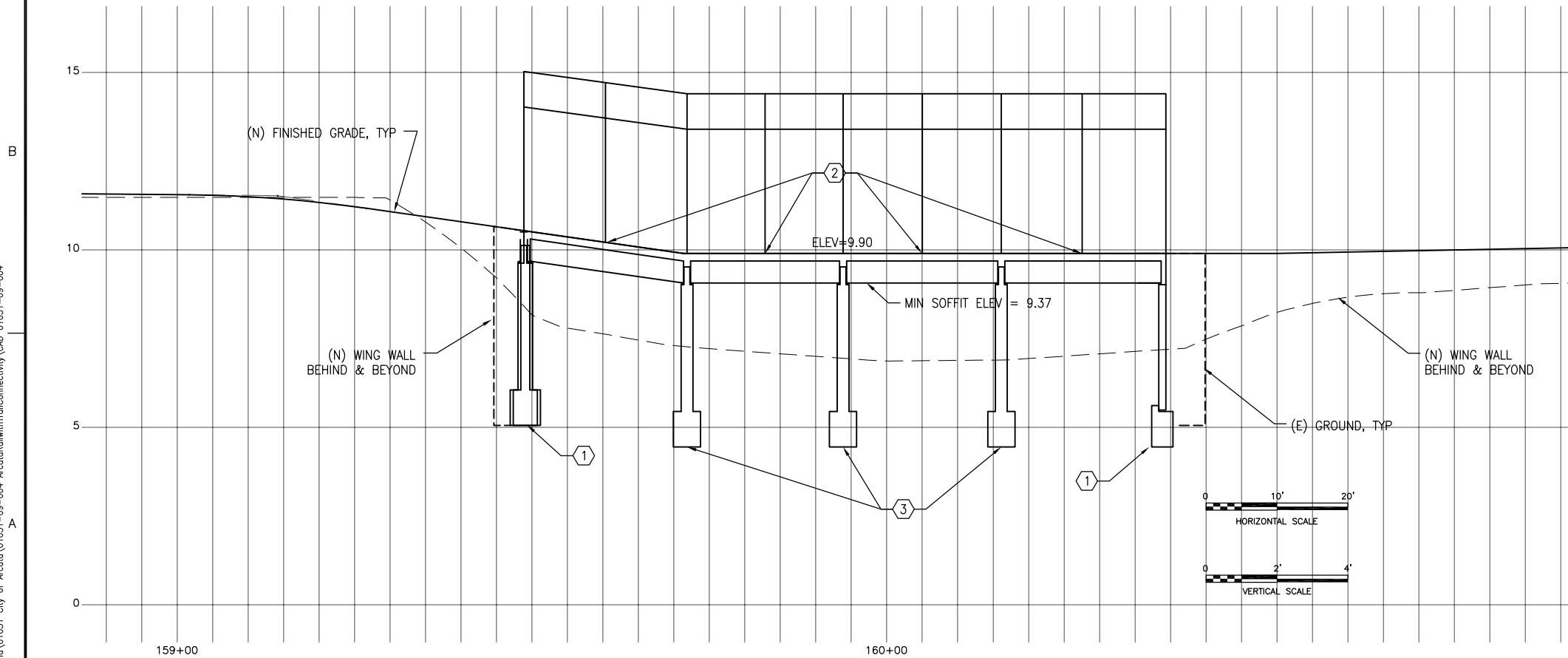
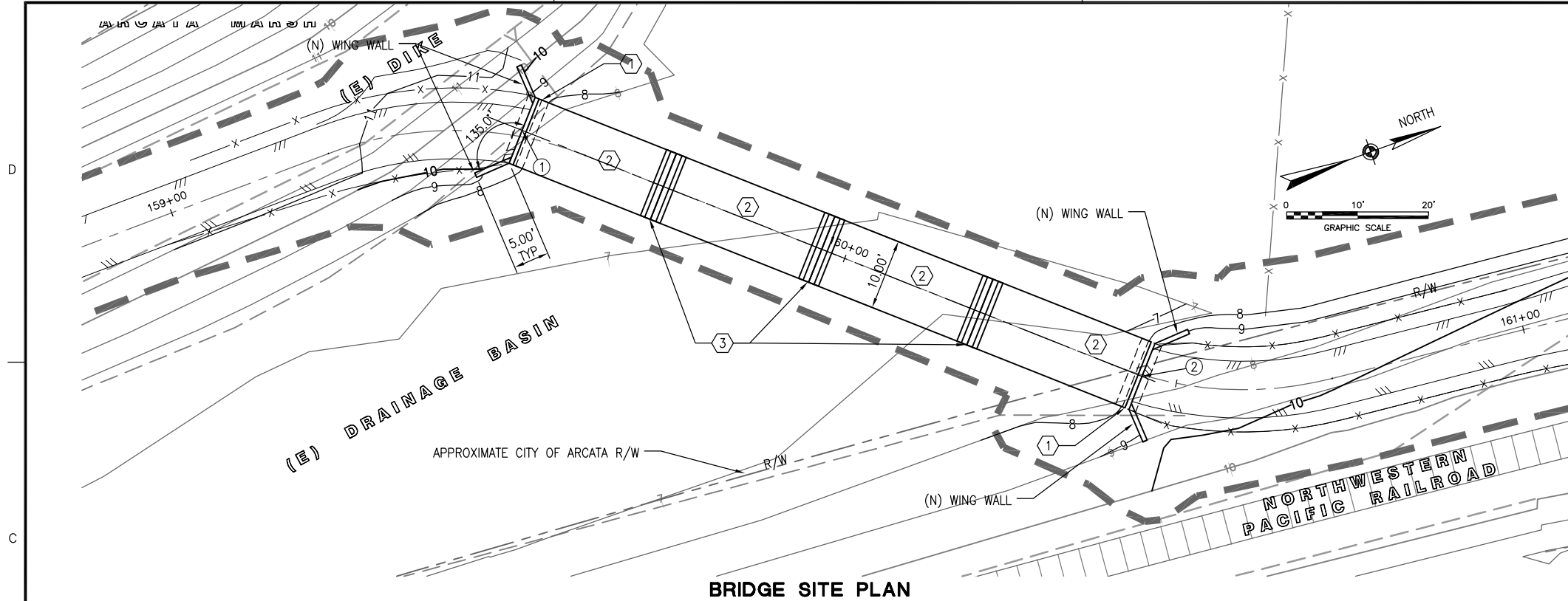
**TYPICAL FOOTING DIAGRAM**  
SCALE: NTS

**NOTE:**  
LOCATION OF ALL EXISTING UTILITIES & STRUCTURES MAY NOT BE SHOWN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POT HOLE FOR EXACT LOCATION.

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CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT STRUCTURAL BUTCHER SLOUGH BRIDGE SITE PLAN & PROFILE	JOB NUMBER 01051-09-004 SHEET 66 OF 73	S-5.0	WINZLER & KELLY 633 THIRD STREET EUREKA, CA 95501-0417 PH (707) 443-8326 FAX (707) 444-8330 SUBCONSULTANT	REVISED	FEB. 2011	SYN.	DESCRIPTION	REVISIONS	DATE	APPROVED
				100% SUBMITTAL NOT FOR CONSTRUCTION						

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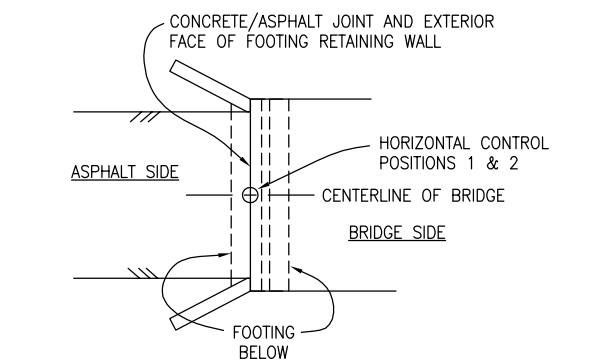


NOTES:  
1. DIMENSIONS SHOWN ARE TYPICAL.

LOCATIONS:

NUMBER	DESCRIPTION	NORTHING	EASTING
①	CL OF BRIDGE (SEE FOOTING DIAGRAM)	2204706.20	5982746.22
②	CL OF BRIDGE (SEE FOOTING DIAGRAM)	204776.42	5982808.71

- KEYNOTES:
- ① (N) CAST-IN-PLACE CONC RETAINING FOOTING PER DETAIL 1 WITH WING WALLS PER 5 TYPIS-8.1
  - ② (N) PRECAST CONC BRIDGE DECKS W/ PEDESTRIAN GUARDRAILS AND CONCRETE OVERLAY, TYP 2 TYPIS-8.1
  - ③ (N) CAST-IN-PLACE CONC FOOTING PER DETAIL 4 TYPIS-8.0



**TYPICAL APPROACH FOOTING DIAGRAM**

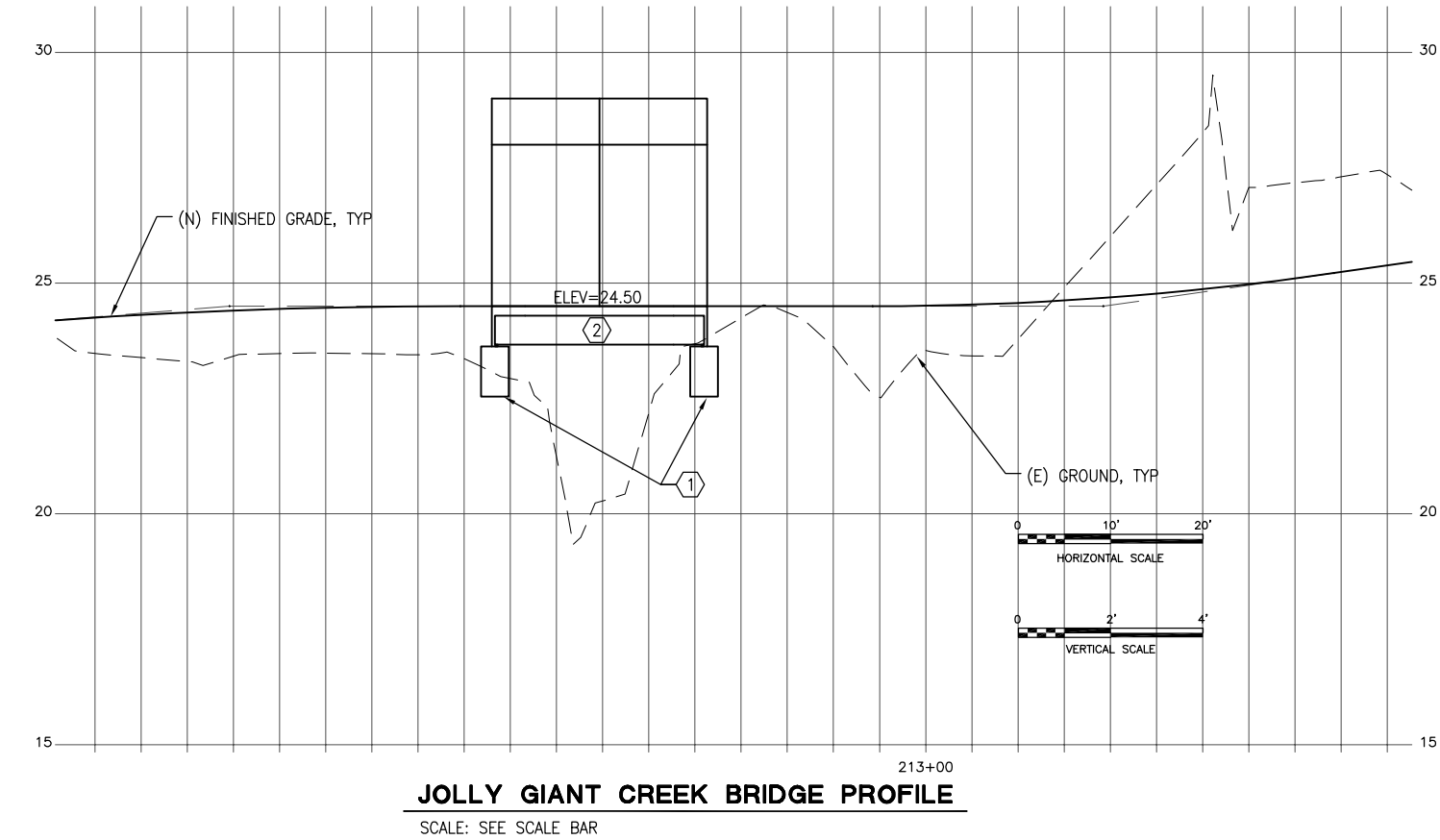
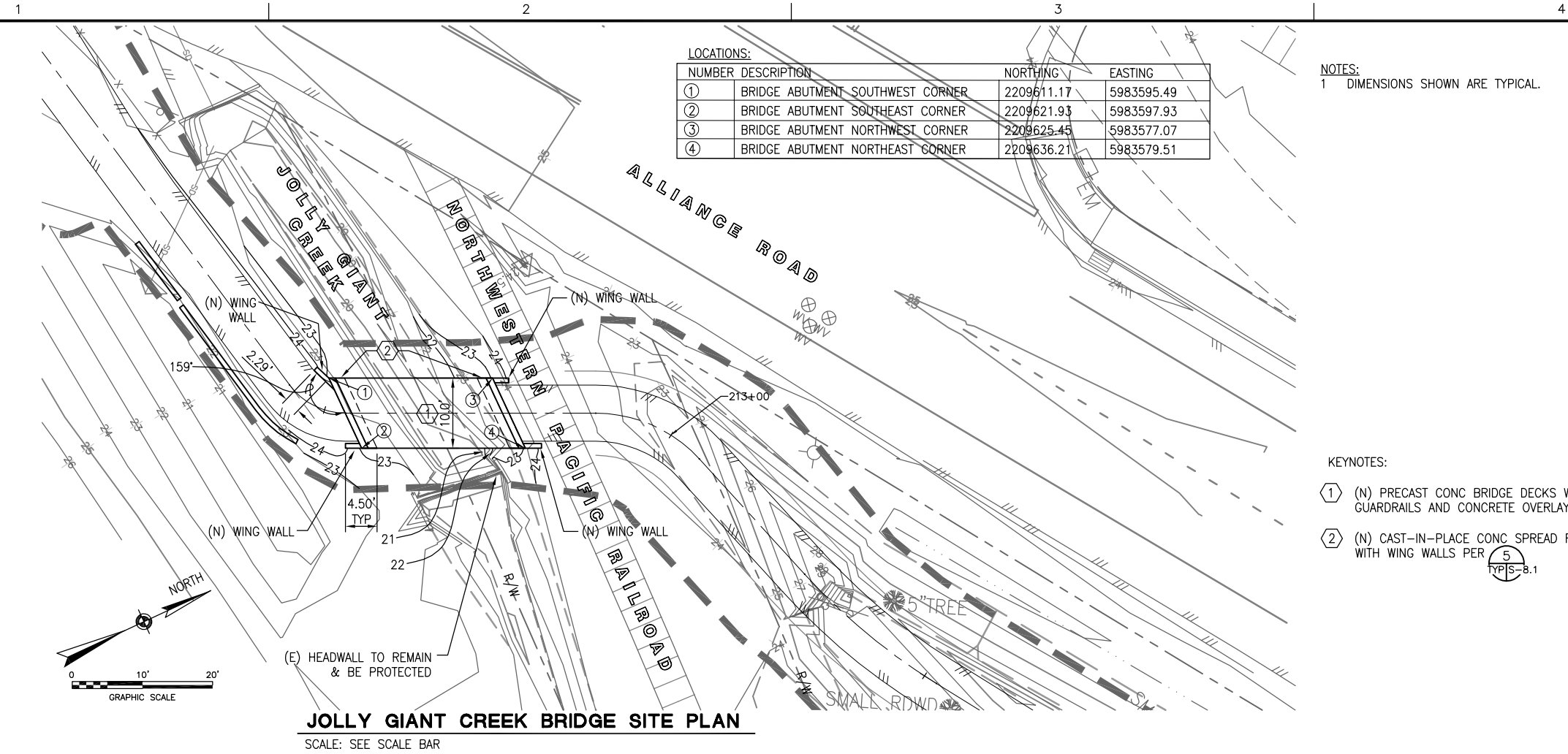
SCALE: NTS

NOTE:  
LOCATION OF ALL EXISTING UTILITIES & STRUCTURES MAY NOT BE SHOWN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

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DES	SOG	SUD	PK	DRAWING SCALE AS NOTED		CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT STRUCTURAL PERIMETER LEVEE ELEVATED TRAIL - SITE PLAN & PROFILE		
JOB NUMBER 01051-09-004		SHEET 67		OF 73		S-6.0		

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DES	SOG	DRN	SJD	CHK	PK	DRAWING SCALE AS NOTED	
CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT				STRUCTURAL JOLLY GIANT CREEK CROSSING SITE PLANS & PROFILE			
JOB NUMBER 01051-09-004				SHEET 68 OF 73			
S-7.0							

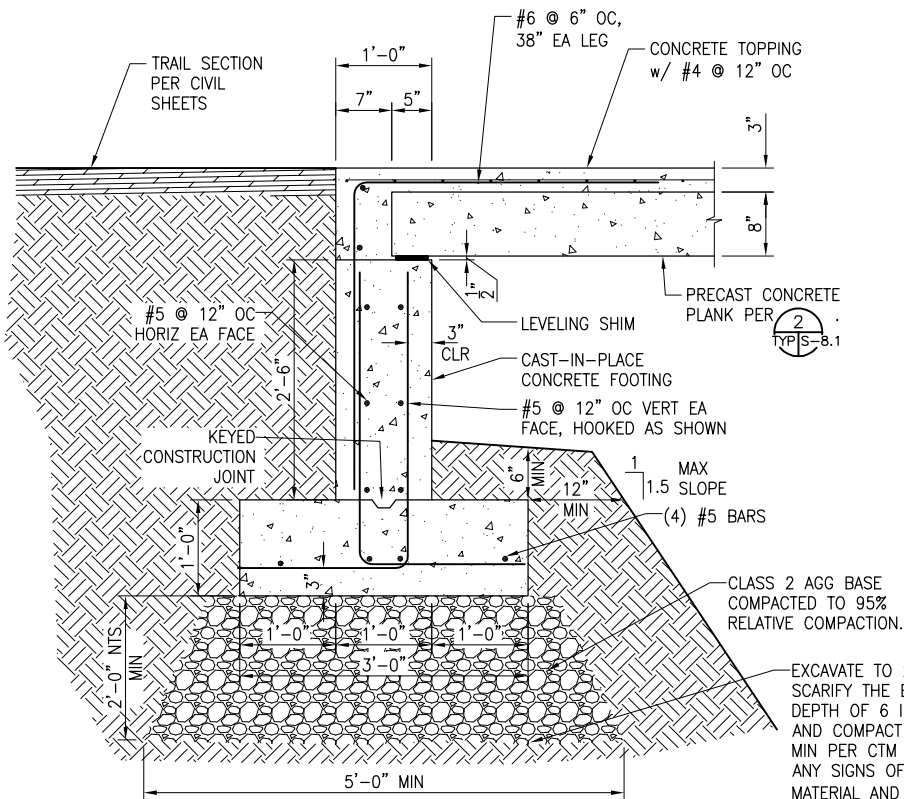
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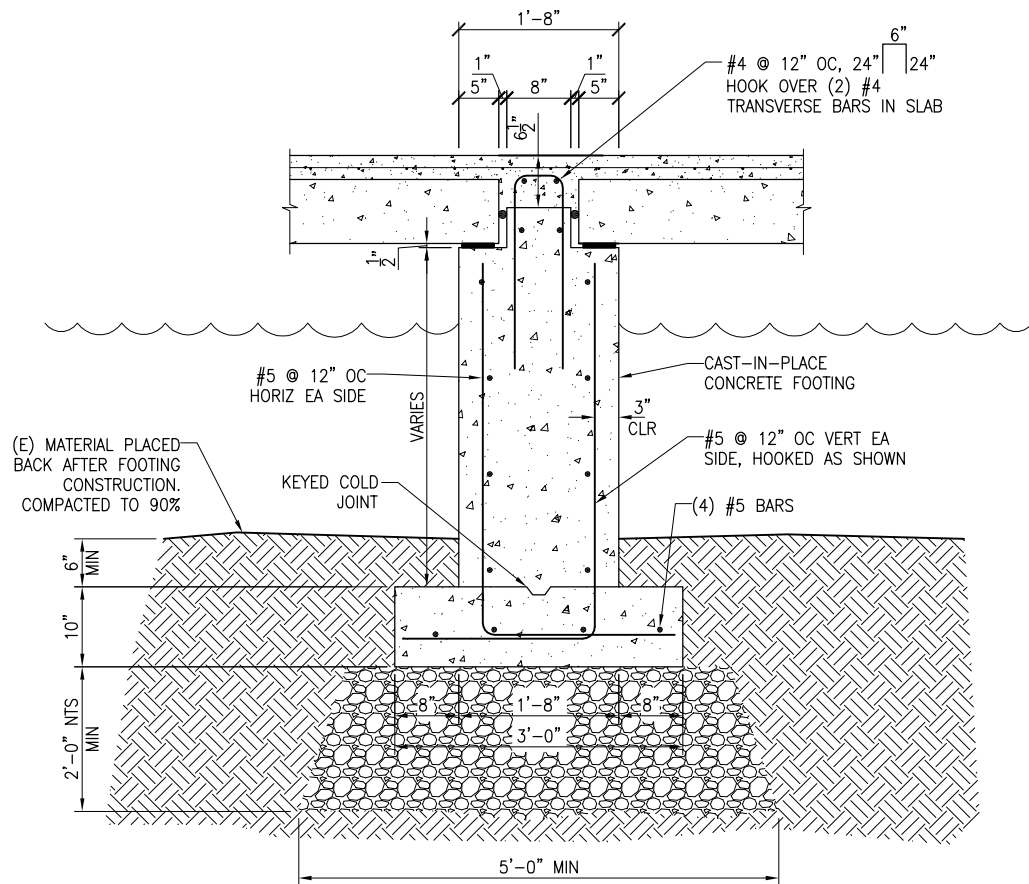
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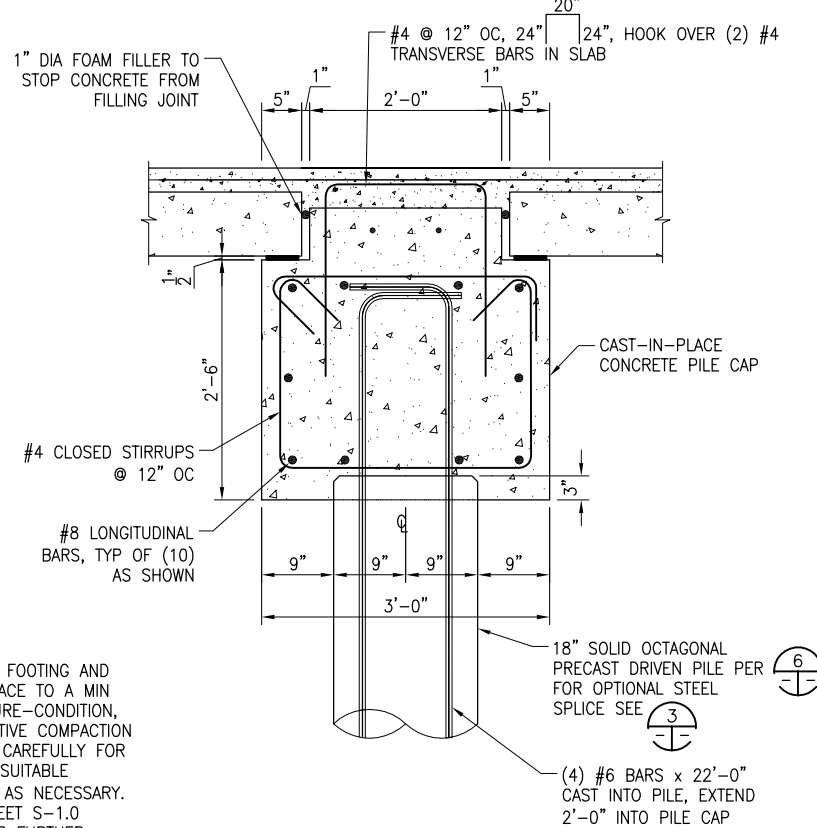
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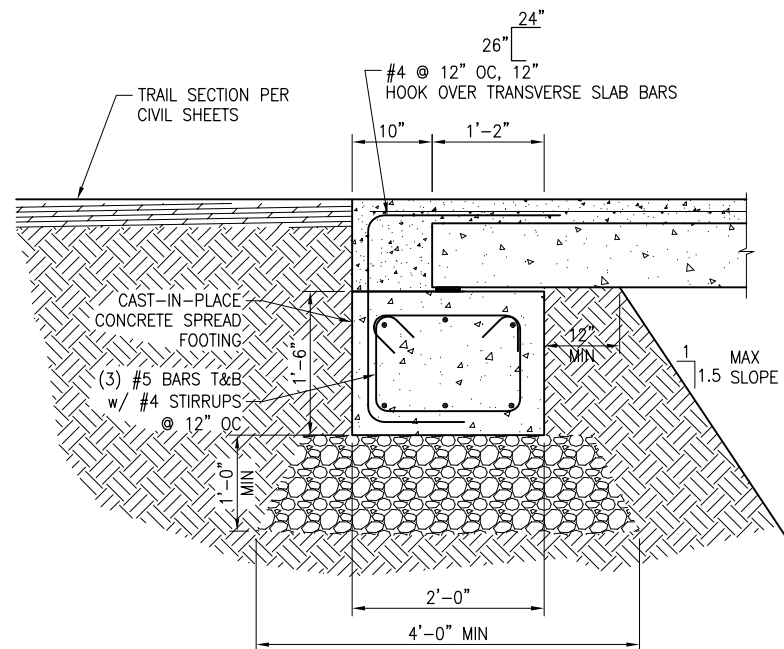
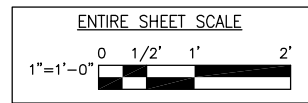
**1 TYPICAL RETAINING FOOTING**  
TYP S-8.0 SCALE: 1" = 1'-0"



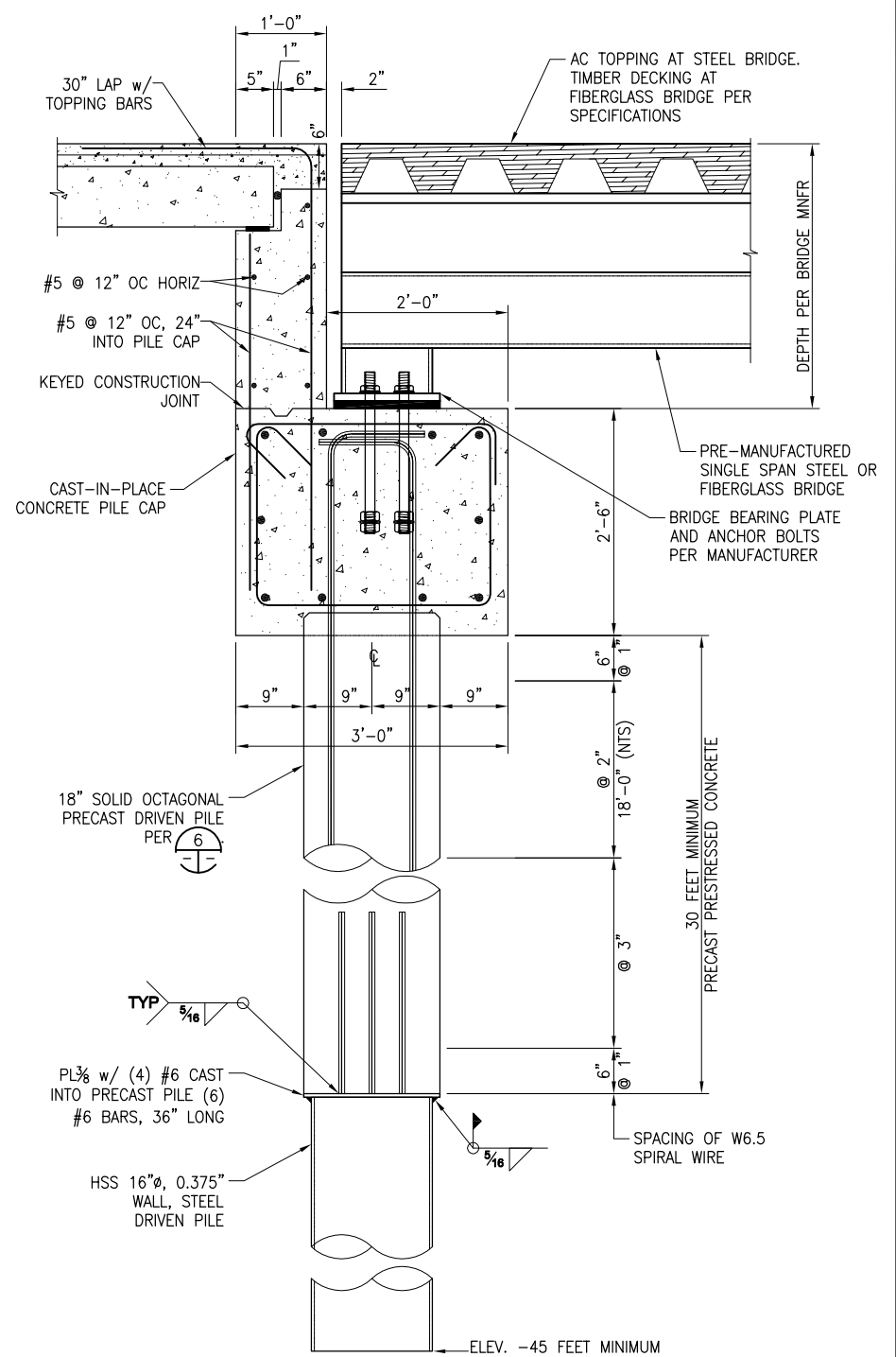
**4 PERIMETER LEVEE FOOTING**  
TYP S-8.0 SCALE: 1" = 1'-0" FOR INFORMATION NOT SHOWN SEE 1



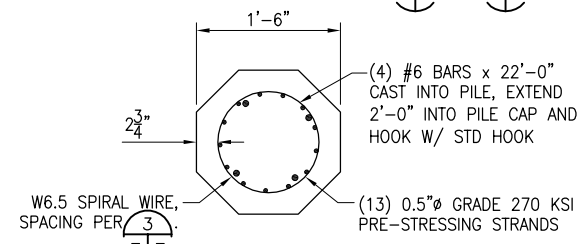
**2 TYPICAL PRECAST PILE CAP**  
TYP S-8.0 SCALE: 1" = 1'-0" FOR INFORMATION NOT SHOWN SEE 1 AND 3



**5 TYPICAL SPREAD FOOTING**  
TYP S-8.0 SCALE: 1" = 1'-0" FOR INFORMATION NOT SHOWN SEE 1



**3 TYPICAL BRIDGE PILE CAP**  
TYP S-8.0 SCALE: 1" = 1'-0" FOR INFORMATION NOT SHOWN SEE 1 AND 2

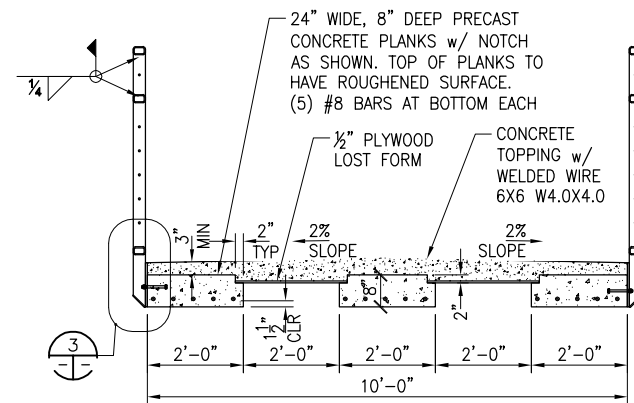


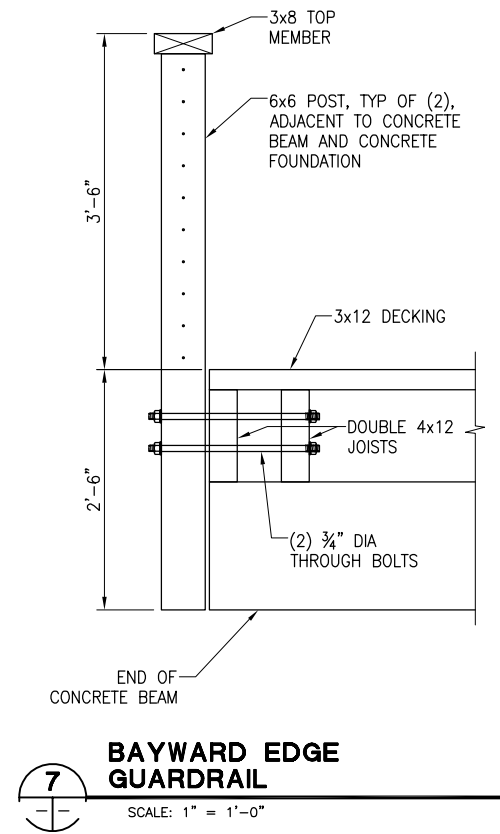
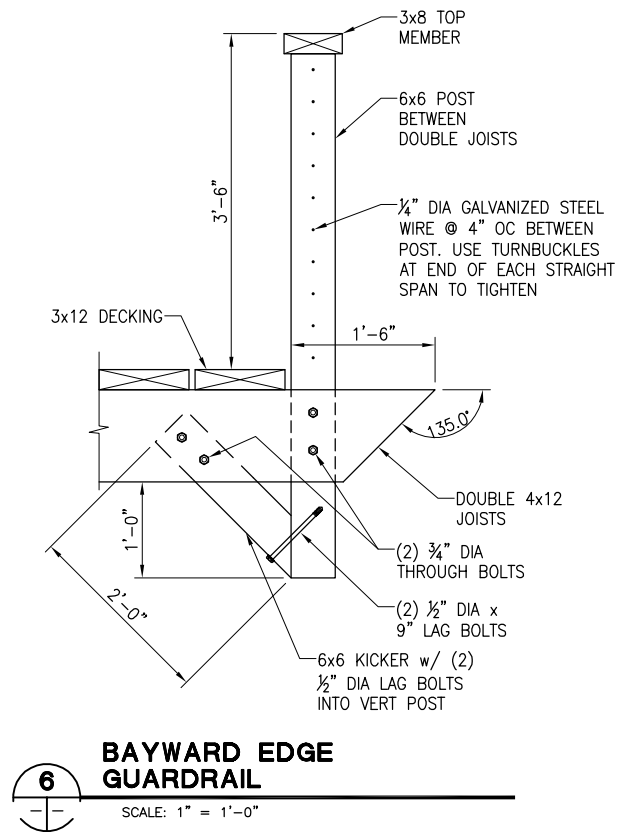
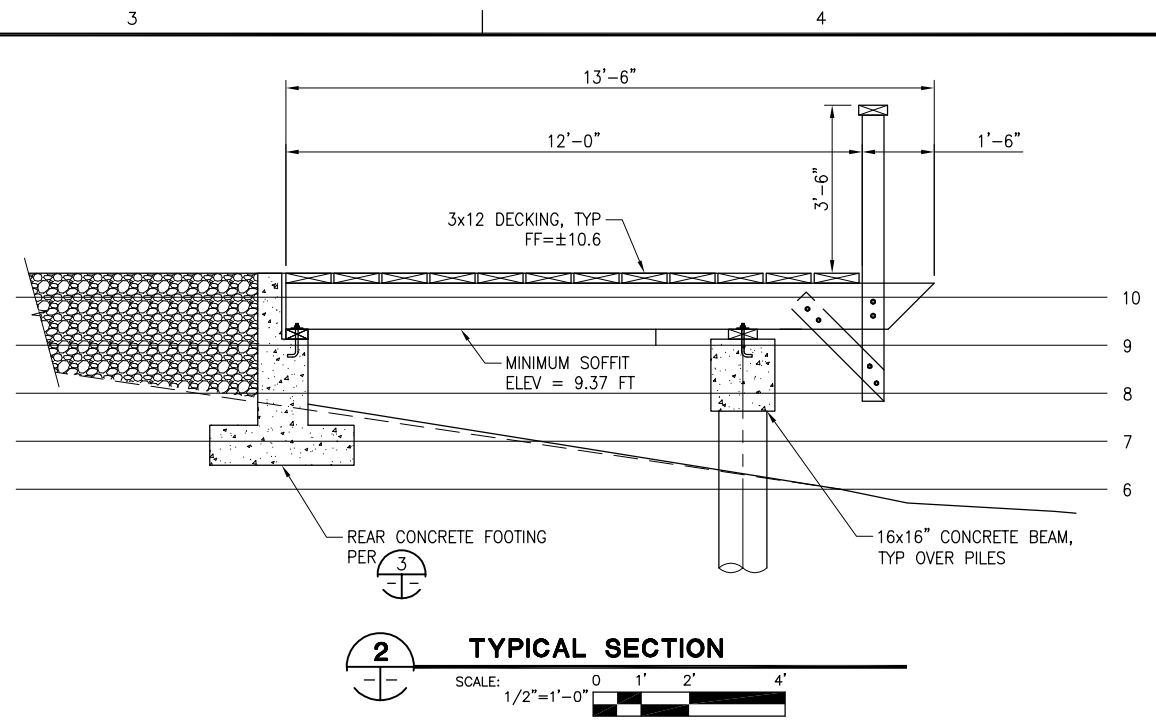
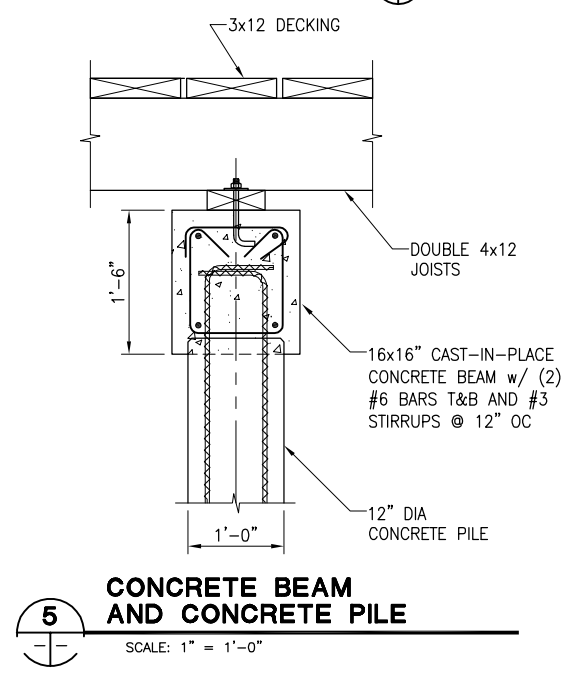
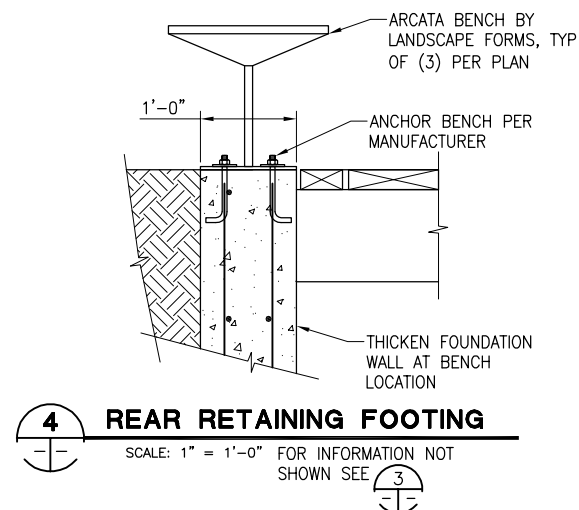
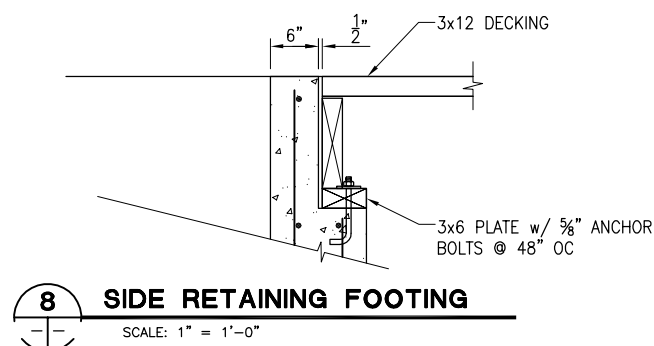
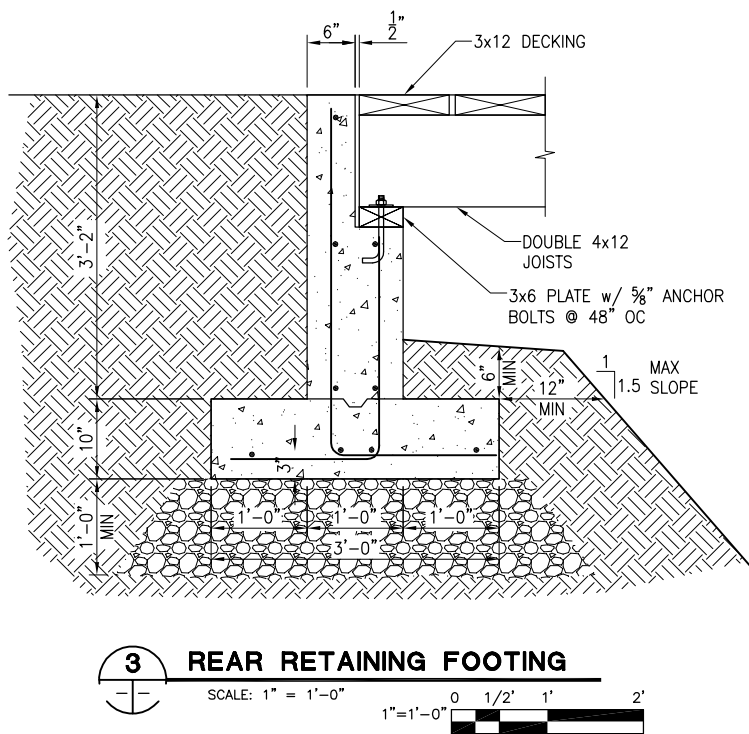
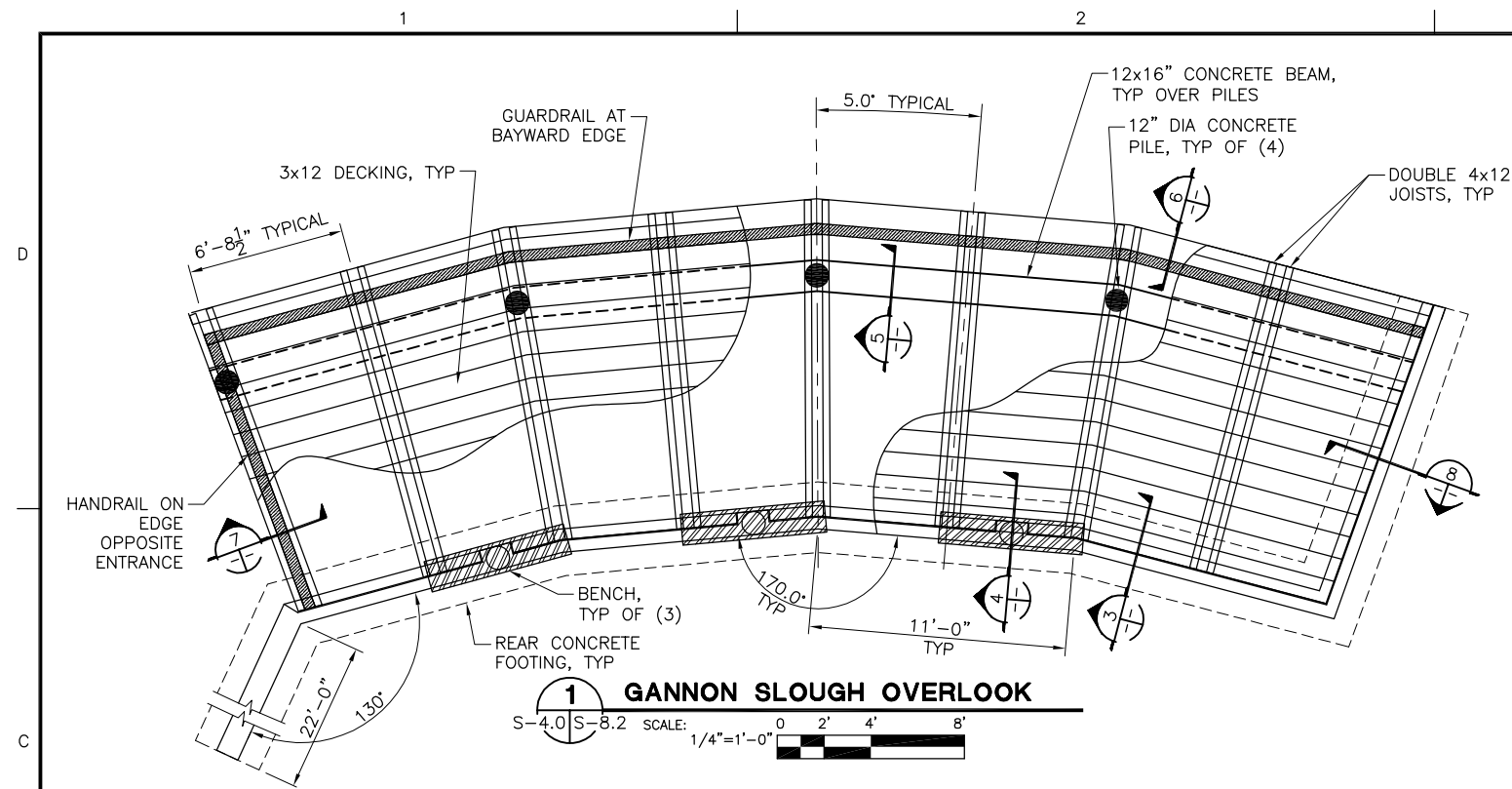
**6 TYPICAL 18" OCTAGONAL PRECAST PRESTRESSED PILE**  
TYP S-8.0 SCALE: 1" = 1'-0"

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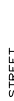
REVISIONS		DATE	DESCRIPTION
REVISED	100% SUBMITTAL	FEB. 2011	NOT FOR CONSTRUCTION
WINZLER & KELLY			
633 THIRD STREET EUREKA, CA 95501-0417 PH (707) 443-8326 FAX (707) 444-8330			
SUBCONSULTANT			
DES	JS	CHK	PK
SUPP	JS	SPP	
DRAWING SCALE AS NOTED			
CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT STRUCTURAL STANDARD DETAILS			
JOB NUMBER 01051-09-004			
SHEET 69 OF 73			
S-8.0			





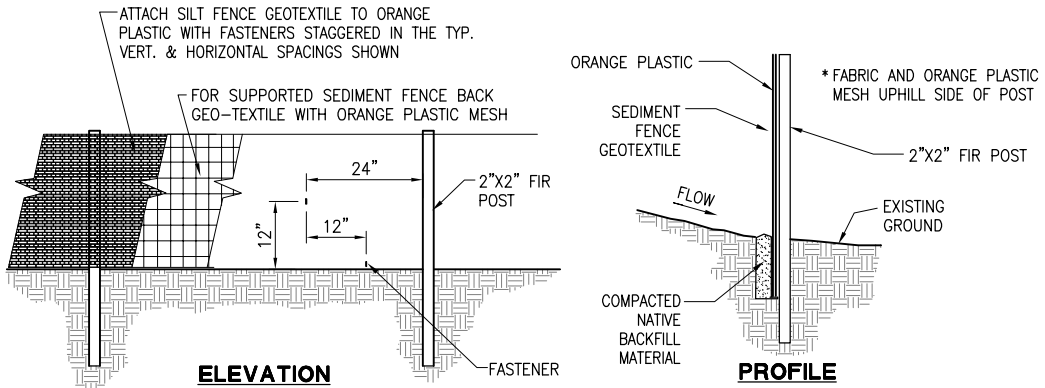


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S-8.2	SHEET 71 OF 73	JOB NUMBER 01051-09-004		CITY OF ARCATA RAIL WITH TRAIL CONNECTIVITY PROJECT STRUCTURAL GANNON SLOUGH OVERLOOK		<div><div><div>REGISTERED PROFESSIONAL ENGINEER STEPHEN P. PEACOCK No. 2004 STATE OF CALIFORNIA</div><div>SEAL</div></div></div>	RES JS OK SPP PK		DRN JS PK	<div><div><div>WINZLER &amp; KELLY 633 THIRD STREET EUREKA, CA 95501-0417 PH (707) 443-8326 FAX (707) 444-8330 SUBCONSULTANT</div><div>100% SUBMITTAL NOT FOR CONSTRUCTION</div></div></div>	REVISED	FEB. 2011
		DRAWING SCALE AS NOTED					SYN.	DATE	APPROVED			
							REVISIONS					

EROSION CONTROL NOTES

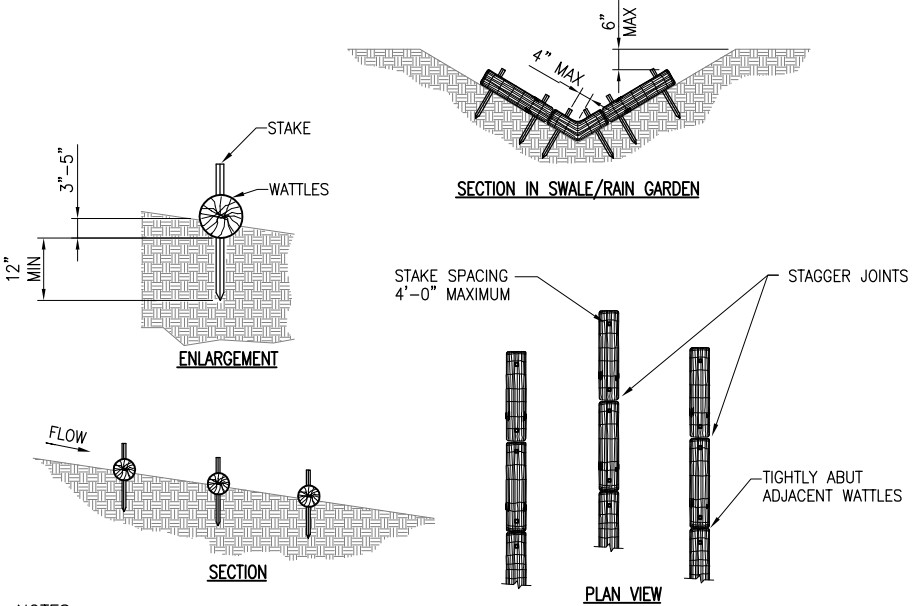
1. CONTRACTOR IS ADVISED THAT THE ENVIRONMENTAL PROTECTION AGENCY (EPA) HAS ADOPTED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CLEAN WATER ACT. THIS PROJECT IS SUBJECT TO ALL OF THE REQUIREMENTS CONTAINED IN THOSE ACTS. THE CONTRACTOR SHALL ABIDE BY ALL OF THE LAWS, ORDINANCES AND REGULATIONS ASSOCIATED WITH THE NPDES AND THE CLEAN WATER ACT.
2. AS PART OF THE NPDES REQUIREMENTS, A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED FOR THE PROJECT. THE SWPPP MUST BE IMPLEMENTED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION AND BE AVAILABLE AT THE CONSTRUCTION SITE. THE CONTRACTOR SHALL CONFORM TO THIS REQUIREMENT AND SHALL IMPLEMENT ALL OF THE MEASURES REQUIRED BY THE SWPPP, INCLUDING BUT NOT LIMITED TO UPDATES TO THE SWPPP, MAINTENANCE OF BMP'S, DILIGENT RECORD KEEPING AND LOGS.
3. THE CONTRACTOR SHALL PROVIDE COPIES OF UPDATES TO THE SWPPP TO THE OWNER PRIOR TO STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL PROVIDE COPIES OF HIS SWPPP RECORDS AND LOGS DURING THE COURSE OF CONSTRUCTION, ON A MONTHLY BASIS, TO THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL ALSO KEEP COPIES OF THESE RECORDS AND LOGS WITH THE SWPPP AT THE CONSTRUCTION SITE FOR POTENTIAL VIEWING BY THE ENVIRONMENTAL PROTECTION AGENCY.
4. THE PROPOSED EROSION CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEMS. BMPS ARE TO BE EMPLOYED AS APPROPRIATE TO MINIMIZE EROSION AND PREVENT SEDIMENT DISCHARGE FROM THE SITE IN THE EVENT OF SUMMER RAINSTORMS, WHEN RAINFALL IS FORECAST, OR AT THE LATEST BY OCTOBER 15TH AND UNTIL APRIL 15TH.
5. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.
6. THE CONTRACTOR SHALL MAKE ADEQUATE PREPARATIONS, INCLUDING TRAINING & EQUIPMENT, TO CONTAIN SPILLS OF OIL AND OTHER HAZARDOUS MATERIALS.
7. ACTIVITIES SUCH AS VEHICLE WASHING ARE TO BE CARRIED OUT AT AN OFF-SITE FACILITY WHEREIN THE WATER IS DISCHARGED INTO A SANITARY SEWER.
8. THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTACLE FOR COMMON SOLID WASTES AT CONVENIENT LOCATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTION OF WASTES.
9. THE CONTRACTOR SHALL PROVIDE SANITARY FACILITIES OF SUFFICIENT NUMBER AND SIZE TO ACCOMMODATE CONSTRUCTION CREWS AND ENSURE ADEQUATE ANCHORAGE OF SUCH FACILITIES TO PREVENT THEM FROM BEING TIPPED BY THE WEATHER OR VANDALISM.
10. APPROPRIATE STORAGE AND DISPOSAL OF WATER FROM DEWATERING OPERATIONS SHALL BE EXERCISED IN THE EVENT THAT ACCUMULATED WATER MUST BE REMOVED FROM A WORK LOCATION. THE GENERAL GUIDELINES ARE PROVIDED ON BMP FACT SHEET NS-2 IN THE SWPPP.
11. COVERED AND SECURED STORAGE AREAS FOR POTENTIALLY TOXIC MATERIALS SHALL BE PROVIDED. ALL HAZARDOUS MATERIAL CONTAINERS SHOULD BE PLACED IN SECONDARY CONTAINMENT. THE GENERAL GUIDELINES ARE DESCRIBED ON BMP FACT SHEET WM-6 IN THE SWPPP.
12. VEHICLE AND EQUIPMENT & MAINTENANCE SHOULD BE PERFORMED OFF-SITE WHENEVER PRACTICAL. IF PERFORMED ON-SITE, THE GENERAL SPILL PREVENTION, CONTAINMENT AND COUNTERMEASURE GUIDELINES ON BMP FACT SHEETS NS-9 AND NS-10 IN THE SWPPP SHALL BE IMPLEMENTED.
13. VEGETATION REMOVAL, GRADING AND OTHER ACTIVITIES SHOULD BE RESTRICTED TO THE MINIMUM AREA NECESSARY TO COMPLETE THE PROJECT. THE GENERAL GUIDELINES ARE PROVIDED IN BMP FACT SHEET EC-2 IN THE SWPPP.
14. SOIL STOCKPILES SHALL BE LOCATED AT LEAST 50 FEET AWAY FROM DRAINAGE CHANNELS AND COVERED. THE GENERAL GUIDELINES ARE PROVIDED IN BMP FACT SHEET WM-3 IN THE SWPPP.
15. INSPECTIONS OF BMPS SHALL OCCUR AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF ONE-HALF INCH OR GREATER.
16. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO OCTOBER 15.
17. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE OWNERS REPRESENTATIVE.
18. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF THE OWNERS REPRESENTATIVE.
19. CONTRACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR MAINTENANCE OF BMPS, AS WELL AS, ANY CORRECTIVE CHANGES TO THE BMPS OR EROSION AND SEDIMENT CONTROL PLAN.
20. THE CONTRACTOR SHALL INSTALL THE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF GRADING. LOCATION OF THE ENTRANCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. THE STABILIZED CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL THE ROAD BASE ROCK COURSE IS COMPLETED.
21. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY OR AS NECESSARY.
22. CONTRACTOR SHALL PROVIDE REQUIRED CONTACT INFORMATION FOR SWPPP, INCLUDING BUT NOT LIMITED TO OPERATORS, SWPPP CONTACT, EMERGENCY CONTACT, INSPECTION PERSONNEL, AND AUTHORIZED REPRESENTATIVE(S). CONTRACTOR SHALL ALSO SIGN THE CERTIFICATION AND NOTIFICATION IN THE SWPPP (SECTION 8). ALL SUBCONTRACTORS SHALL SIGN THE SUBCONTRACTORS CERTIFICATION/AGGREMENT (APPENDIX H OF SWPPP).



- NOTES:
1. FILTER FABRIC SHALL BE INSTALLED IN A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHERE JOINTS ARE NECESSARY SPLICE FABRIC TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6" OVERLAP. SECURELY FASTEN BOTH ENDS TO THE POST.
2. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12".
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND 6" DEEP ALONG THE LINE OF POSTS UPHILL FROM THE BARRIER. TRENCH SHALL FOLLOW THE CONTOUR.
4. TRENCH SHALL BE BACKFILLED WITH NATIVE MATERIAL.
5. INSPECT AND REPAIR AFTER EACH RAINFALL. INSPECT DAILY DURING PROLONGED RAINFALL.
6. REMOVE SEDIMENT WHEN IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT ABOVE GROUND PORTION OF THE FENCE.
7. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND SEEDED.

60 SILT FENCE DETAIL

TYP. ER-1.0 NTS



- NOTES:
1. CONTRACTOR SHALL INSPECT WATTLES WEEKLY AND AFTER EACH RAINFALL. REPLACE WATTLES WHEN THEY HAVE DECOMPOSED, COLLAPSED, OR BEEN DAMAGED. REMOVE SEDIMENT FROM BEHIND THE WATTLE WHEN IT REACHES ONE INCH OF DEPTH.
2. WATTLES SHOULD BE PLACED ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT WATTLE.
3. THE DIRECTION OF RUNOFF FLOW TO THE WATTLES SHOULD BE PERPENDICULAR TO THE STAKED WATTLE LOCATION.
4. REMOVE WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

61 STRAW WATTLE SEDIMENT BARRIER

TYP. ER-1.0 NTS

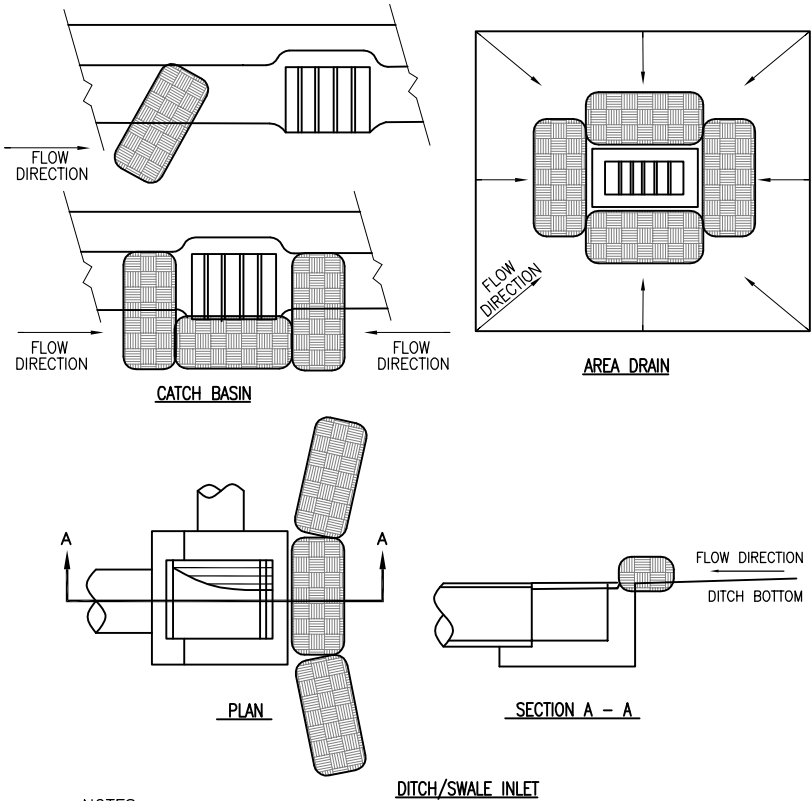
REVISED	FEB. 2011	100% SUBMITTAL		NOT FOR CONSTRUCTION		DATE	APPROVED
WINZLER & KELLY		PH (707) 443-8326 FAX (707) 444-8330		SUBCONSULTANT		REVISIONS	
DES	SUPP	JS	MP	CHK	PK	DRAWING SCALE AS NOTED	
CITY OF ARCATA		RAIL WITH TRAIL CONNECTIVITY PROJECT		EROSION & SEDIMENT CONTROL EROSION & SEDIMENT CONTROL NOTES & DETAILS		JOB NUMBER 01051-09-004	
SHEET		72	OF	73	ER-1.0		

D

C

B

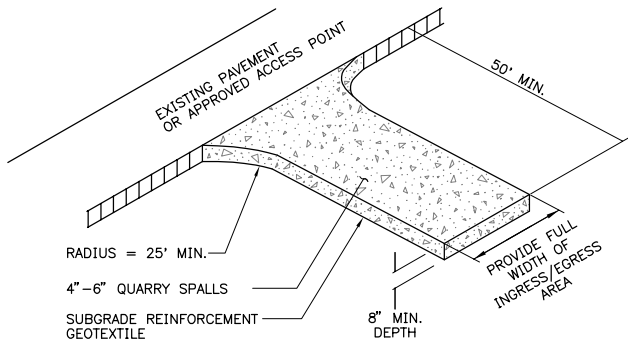
A



NOTES:

1. BIOBAGS FILL MATERIAL SHALL BE CLEAN 100% RECYCLED WOOD PRODUCT WASTE. SIZE OF BAG SHALL BE GENERALLY 18" X 6" X 30" PLASTIC MESH BAGS WITH 1/2" OPENINGS AND WEIGH APPROXIMATELY 45 POUNDS.
2. INSPECT BIOBAGS ON A REGULAR BASIS. BIOBAGS SHALL BE REPLACED ONCE THEY BECOME CLOGGED.
3. REPAIR ANY DAMAGED BALES, AREAS OF END RUNS, AND UNDERCUTTING BENEATH BALES. REPAIRS TO BALES OR BARRIERS SHALL BE MADE AS SOON AS POSSIBLE.
4. REMOVE SEDIMENT DEPOSITS WHEN THEY REACH APPROXIMATELY ONE THIRD THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE IN UNPAVED AREAS AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND SEEDED.

62 BIO-FILTER INLET PROTECTION  
TYP. ER-2.0 NTS



NOTES:

1. ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADWAY.
2. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS MUST BE REMOVED IMMEDIATELY.
3. ACCESSSES SHALL BE INSPECTED MONTHLY AND AFTER EACH RAINFALL WITH MAINTENANCE PROVIDED AS NECESSARY.

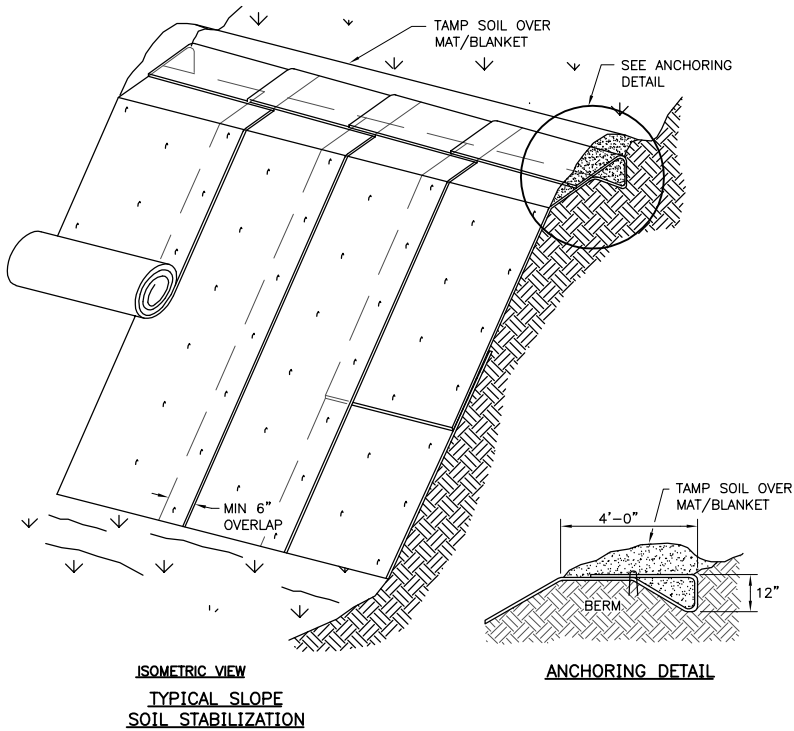
65 GRAVEL CONSTRUCTION ENTRANCE  
TYP. ER-2.0 NTS

2

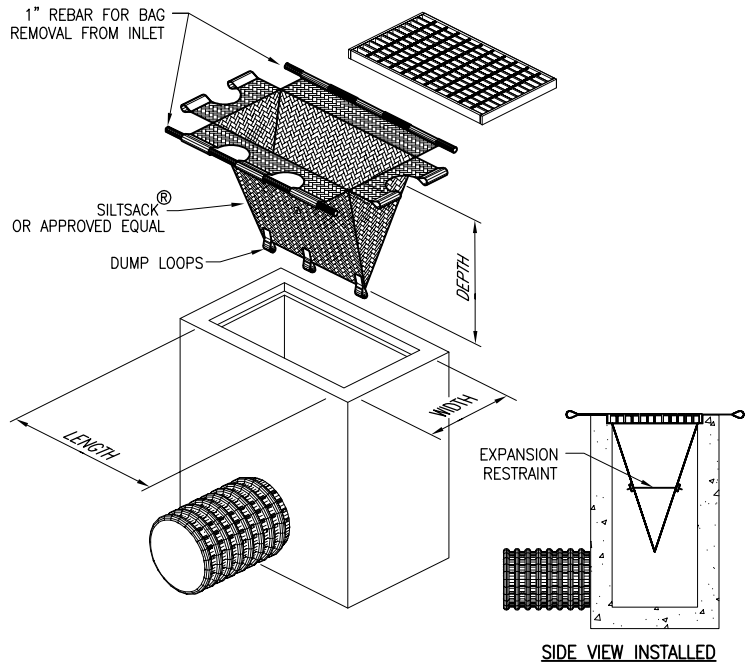
NOTES:

1. MATS/BLANKETS SHALL BE NORTH AMERICAN GREEN'S BIONET S150BN OR APPROVED EQUAL.
2. MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
3. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
4. APPLY PERMANENT SEEDING BEFORE PLACING MATS/BLANKETS.
5. LAY MATS/BLANKETS LOOSELY AND STAKE OR STAPLE PER MANUFACTURERS RECOMMENDATIONS TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

63 EROSION BLANKETS/TURF REINFORCEMENT MATS  
TYP. ER-2.0 NTS



3



NOTES:

1. THE INLET FILTER SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINEAL FOOT. AN EQUIVALENT OPENING SIZE NOT GREATER THAN A 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS / MINUTE / SQ. FT.
2. THE INLET FILTER MAY BE SUSPENDED FROM OR HELD IN PLACE BY THE EXISTING INLET GRATE (OR OTHER APPROVED METHOD), PROVIDING NO MODIFICATION OR DAMAGE SHALL BE DONE TO THE INLET GRATE OR FRAME. THE INLET GRATE SHALL NOT BE CAUSED TO REST MORE THAN 1/2" ABOVE THE INLET FRAME.
3. FLOWS SHALL NOT BE ALLOWED TO BYPASS THE INLET FILTER. THE INLET FILTER OR IT'S FRAME SHALL CATCH FLOWS AT ALL SIDES OF THE INLET, EXCEPT FOR FLOOD RELEASE.
4. INLET FILTERS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL DURING THE WET SEASON AND MONTHLY DURING THE DRY SEASON. SEDIMENT AND DEBRIS SHALL BE REMOVED BEFORE ACCUMULATIONS HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. BAGS SHALL BE REPAIRED OR REPLACED AS SOON AS DAMAGE OCCURS.

64 INLET FILTER - INLET PROTECTION  
TYP. ER-2.0 NTS

REVISED		FEB. 2011		DATE		APPROVED	
100% SUBMITTAL		NOT FOR CONSTRUCTION		SYN.		REVISIONS	
WINZLER & KELLY		PH (707) 443-8326		FAX (707) 444-8330		DESCRIPTION	
633 THIRD STREET		EUREKA, CA 95501-0417		SUBCONSULTANT		REVISIONS	
DES		SJD		PK		DRAWING SCALE	
JS		MP		AS NOTED		SEAL	
CITY OF ARCATA		RAIL WITH TRAIL		CONNECTIVITY PROJECT		EROSION & SEDIMENT CONTROL	
EROSION & SEDIMENT CONTROL		EROSION & SEDIMENT CONTROL		EROSION & SEDIMENT CONTROL		EROSION & SEDIMENT CONTROL	
JOB NUMBER		01051-09-004		SHEET		73 OF 73	
ER-2.0		ER-2.0		ER-2.0		ER-2.0	