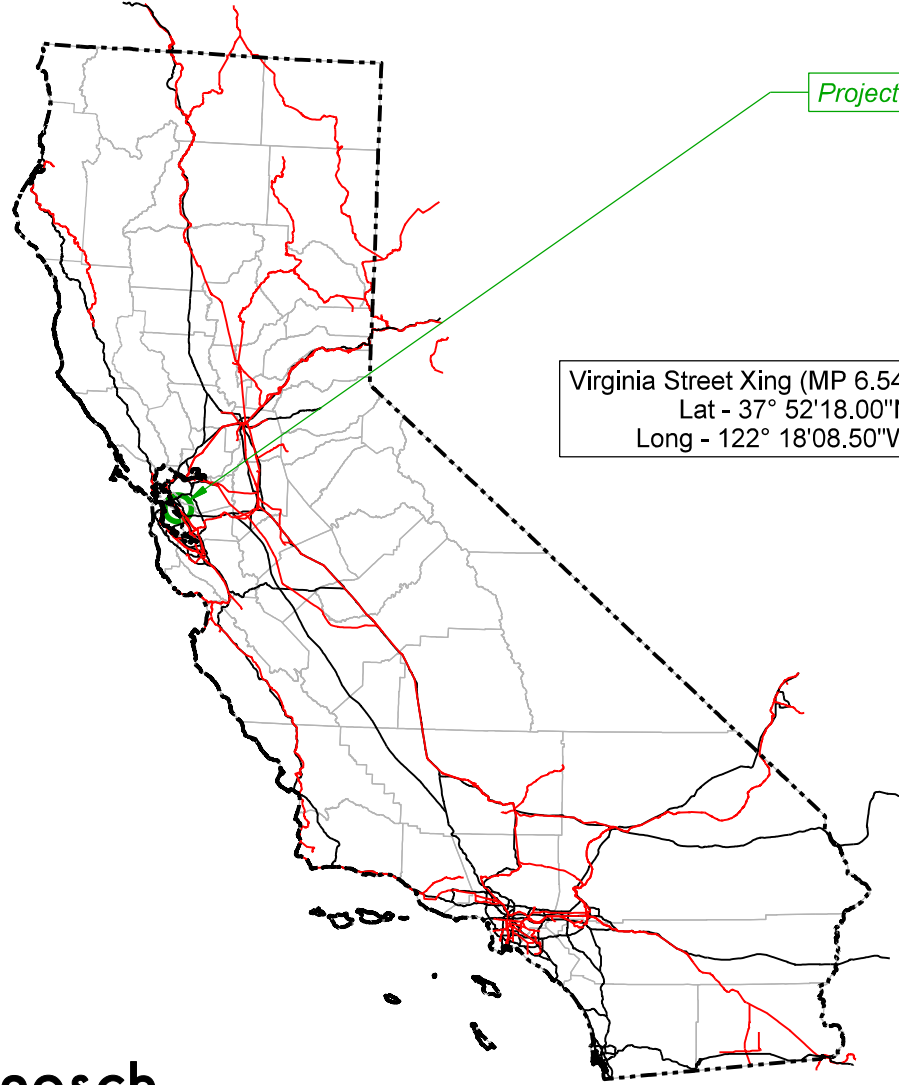


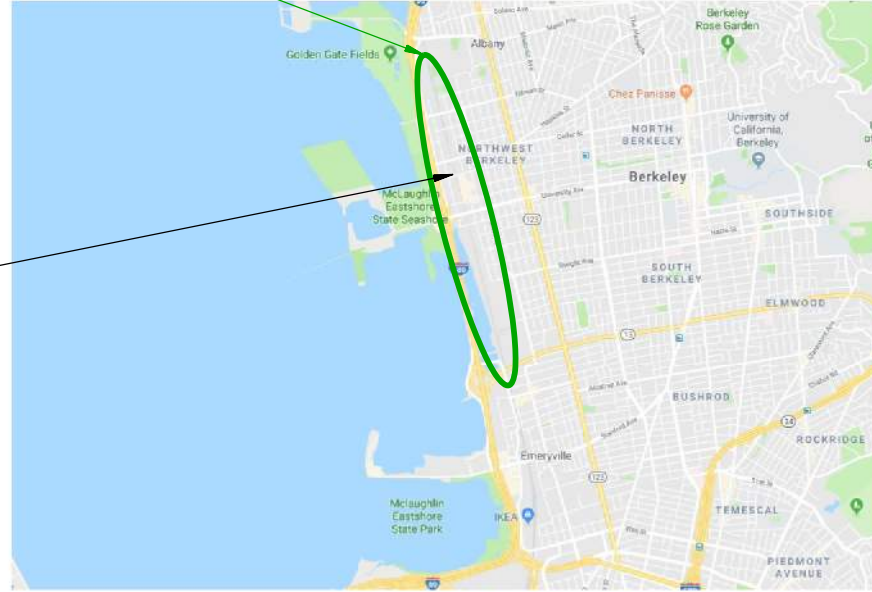


ENGINEERING DESIGN



Virginia Street Xing (MP 6.54)
Lat - 37° 52'18.00"N
Long - 122° 18'08.50"W

Project Location



Project Location Map



Alfred Benesch & Company
14748 W. Center Rd., Ste 200
Omaha, NE 68144
402-333-5792

State of California

BERKELEY, CA MARTINEZ SUBDIVISION MP 4.86 - MP 7.05 DRILL TRACK REHABILITATION

**100% PLANS
ISSUED FOR CONSTRUCTION**

**LAST REVISED
NOVEMBER 13, 2025**

WORK ORDER: 70705
PROJECT NUMBER: 115734
BUDGET REFERENCE: 20CP050

ABBREVIATIONS

MISCELLANEOUS

Ac.	Acres
Ave.	Avenue
Bldg.	Building
BNSF	BNSF Railway
C.Y.	Cubic Yards
Conc.	Concrete
°	Degree (s)
Dia.	Diameter
Dr.	Drive
Dwg.	Drawing
E	East
Elev.	Elevation
Exist.	Existing
'	Foot, Feet or Minute (s)
F.S.	Finished Surface
Horiz.	Horizontal
"	Inch, Inches or Second (s)
Inv.	Invert
Lt.	Left
L	Length
L.F.	Lineal Feet
Max.	Maximum
Min.	Minimum
N	North
NTS	Not to Scale
No.	Number
OH	Overhead
Prop.	Proposed
RR	Railroad
Rwy	Railway
R/W	Right of Way
Rt.	Right
S	South
S.F.	Square Feet
Sta.	Station
Std.	Standard
St.	Street
Twp.	Township
Typ.	Typical
UG	Underground
UPRR	Union Pacific Railroad
V	Velocity
Wt.	Weight
W	West
X-ing	Crossing

SIGNAL

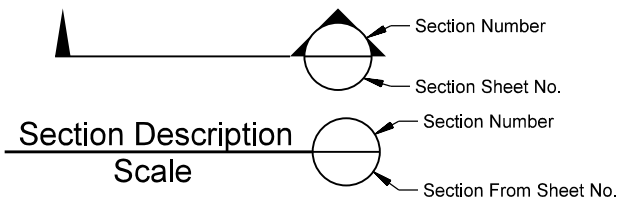
ABS	Automatic Block Signal
ATC	Automatic Train Control
CTC	Centralized Traffic Control
DED	Dragging Equipment Detector
DTC	Direct Traffic Control
ELTO	Electric Lock Turnout
HBD	Hot Box Detector
HTTO	Hand Throw Turnout
HWD	High Wide Detector
POTO	Power Operated Turnout
TWC	Track Warrant Control
WILD	Wheel Impact Load Detector

STRUCTURES

Bldg.	Building
Br.	Bridge
CB	Catch Basin
CPT	Concrete Pile Trestle - Ballast Deck
CIP	Cast Iron Pipe
CMP	Corrugated Metal Pipe
CMPA	Corrugated Metal Pipe Arch
CSP	Corrugated Steel Pipe
Culv.	Culvert
DI	Drop Inlet
DPGBD	Deck Plate Girder - Ballast Deck
DPGOD	Deck Plate Girder - Open Deck
EBW	East Backwall
F.L.	Flowline
F.F.	Finished Floor
GIP	Galvanized Iron Pipe
Hdw	Headwall
NBW	North Backwall
PCB	Prestressed Concrete Box
PSCT	Prestressed Concrete Trestle
RCA	Reinforced Concrete Arch
RCB	Reinforced Concrete Box
RCP	Reinforced Concrete Pipe
SBW	South Backwall
SSP	Smooth Steel Pipe
SPTBD	Steel Pile Trestle - Ballast Deck
SPTOD	Steel Pile Trestle - Open Deck
SPP	Structural Plate Pipe
TPGBD	Through Plate Girder - Ballast Deck
TPGOD	Through Plate Girder - Open Deck
TPTBD	Timber Pile Trestle - Ballast Deck
TPTOD	Timber Pile Trestle - Open Deck
TTBD	Through Truss - Ballast Deck
TTOD	Through Truss - Open Deck
TWB	Treated Wood Box
VCP	Vitrified Clay Pipe
Viad.	Viaduct
WBW	West Backwall
WIP	Wrought Iron Pipe

TRACK

ATR	Above Top of Rail
Align.	Alignment
BBR	Below Base of Rail
Cntrs.	Centers
CWR	Continuous Welded Rail
DSPD	Double Switch Point Derail
EOT	End of Track
HH	Head Hardened
Jtd.	Jointed Rail
LH	Left Hand
ML	Main Line
MM	Mile Marker
MP	Mile Post
NSC	Not Sufficient Clearance
OTM	Other Track Material
PCC	Point of Compound Curve
PC	Point of Curve
PCS	Point of Curve to Spiral
POC	Point on Curve
PF	1/2" Point of Frog
PI	Point of Intersection
PITO	Point of Intersection of Turnout
PS	Point of Spiral
PSC	Point of Spiral to Curve
POS	Point on Spiral
PT	Point of Tangent
POT	Point on Tangent
Pt. Sw.	Point of Switch
PVC	Point of Vertical Curve
PVI	Point of Vertical Intersection
PVT	Point of Vertical Tangent
RH	Right Hand
SH	Second Hand
SSPD	Single Switch Point Derail
TC	Track Centers
T.F.	Track Feet
Trk.	Track
UXO	Universal Cross-Over
X-Over	Cross-Over



UTILITIES

AIR	Compressed Air
F/O	Fiber Optic Cable
G	Gas Pipeline
OP	Overhead Power Line
SS	Sanitary Sewer
UGS	Underground Signal Line
SS	Steam Line
S	Storm Sewer
T	Telephone
UGE	Underground Electric
W	Water Main
UD	Under Drain
V.	Valve
M.H.	Manhole
C.B.	Catch Basin
F.H.	Fire Hydrant
J.B.	Junction Box
E.M.	Electric Meter
G.M.	Gas Meter
W.M.	Water Meter
M.W.	Monitoring Well
PUMP	Pump

TRACK

Existing Mainline
Existing Siding or Spur
Proposed
Remove
Shift
Relay
Surface & Line
Future
Foreign Railroad or Industry
In Buildings or Under Structures
Turnout
Power Turnout
Bumping Post
Earthen Bumper
Inert Retarder
Dowty Retarder
Hayes Derail
Double Switch Point Derail

PROPERTY

Section Line
Center Section Line
Parcel or Easement Line
Right of Way
Former Right of Way
Right of Way to be Acquired
Foreign Right of Way

ROAD CROSSING WARNING DEVICES

Crossbuck Sign
Flashing Light Warning Device
Flashing Light Warning Device with Gate
Cantilever Flashing Light Warning Device
Cantilever Flashing Light Signal with Gate

SIGNAL

Absolute Signal
Signal Bridge
Cantilever Signal
ACS or CTC Signal
Dwarf Signal
Begin CTC
Microwave Tower
AEI
Battery Box
Dragging Equipment Detector
Generator
Hot Box Detector

STRUCTURES

Culvert
Culvert with Headwalls
Double Culvert
Railroad Bridge
Highway Overpass
Highway Underpass
Tunnel
Building
Flag Pole

OTHER

Embankment
Flow Line
Milepost
Milemarker
Control Point
Revision Number
Revision Cloud

SIGNS

Stop
Yard Limit
1 Mile to Yard Limit
Whistle Post
Flanger
Station
Reduce Speed
Resume Speed
General Purpose

FENCES

Barbed Wire
Chain Link
Snow / Sand
Cattle Guard

ROADS

Paved Road
Unimproved Road
Interstate Highway
Federal Highway
State Highway
County Highway

PERMITTING

Permitted Boundary / Temporary Workspace
Wetlands
Wetlands Impacted
Waters of the US
River or Lake

CONSTRUCTION

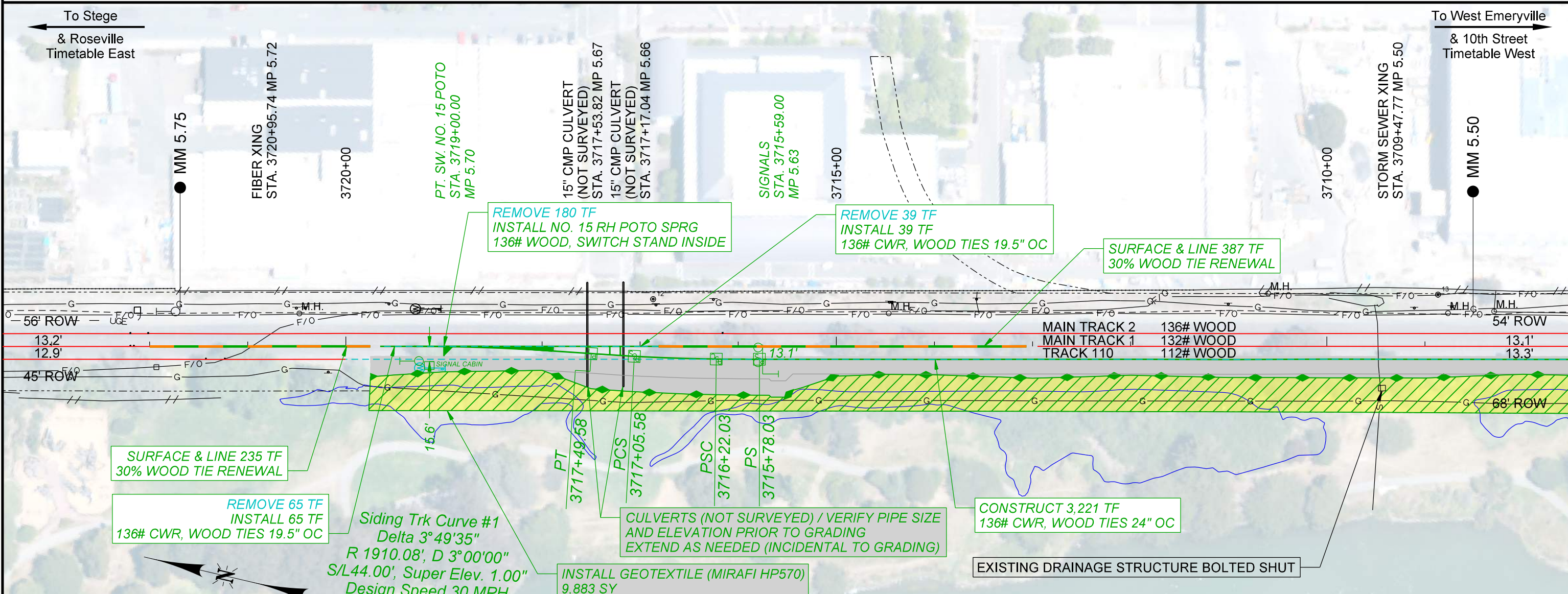
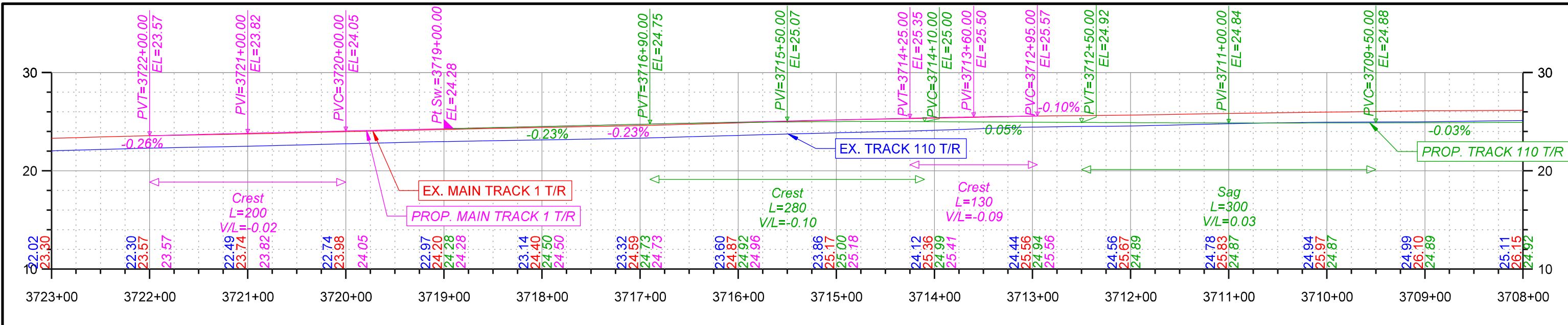
Note (Work by Contractor)
Note (Work by Others)
Cut Lines
Fill Lines
Grading Limits

LIGHTING

Light Pole
Light Tower

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 7/15/2026

Alfred Benesch & Company 14748 W. Center Rd., Ste 200 Omaha, NE 68144 402-333-5792		DRAWN BY: CLH	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: BERKELEY, CA MARTINEZ SUBDIVISION MP 4.86 - MP 7.05 DRILL TRACK REHABILITATION SHEET TITLE: ABBREVIATIONS & LEGEND
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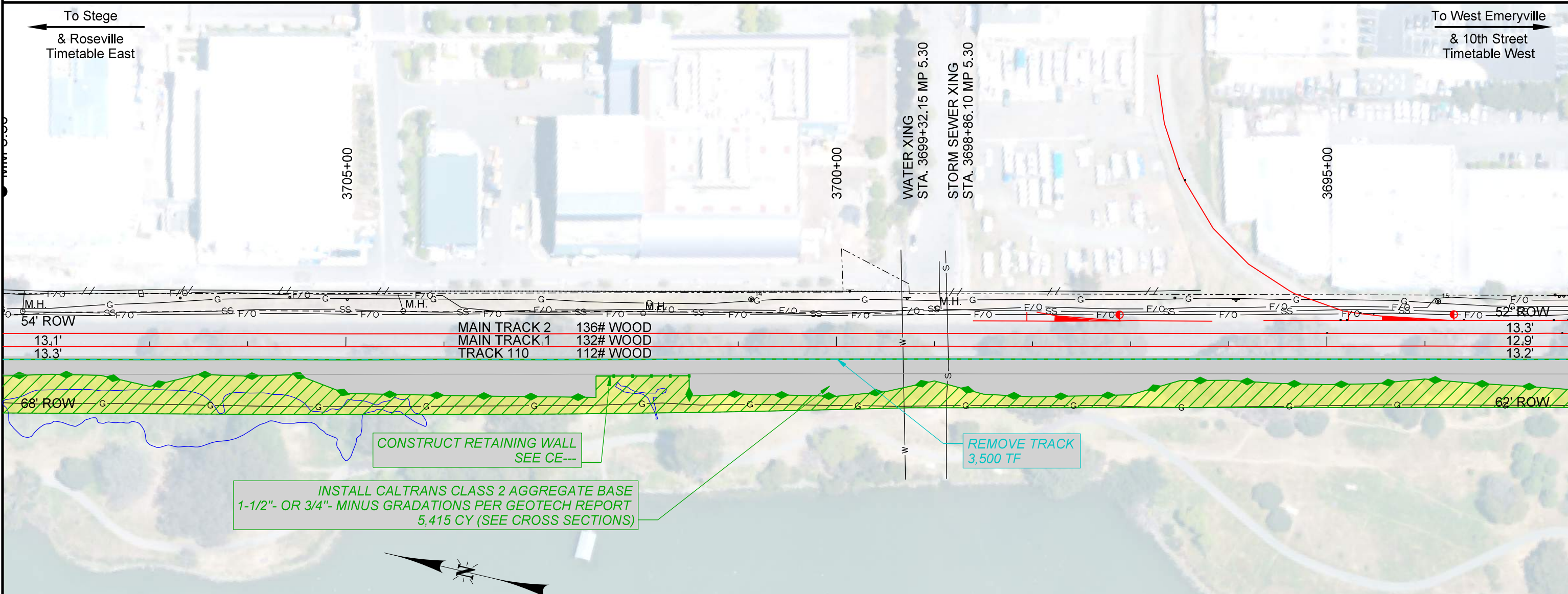
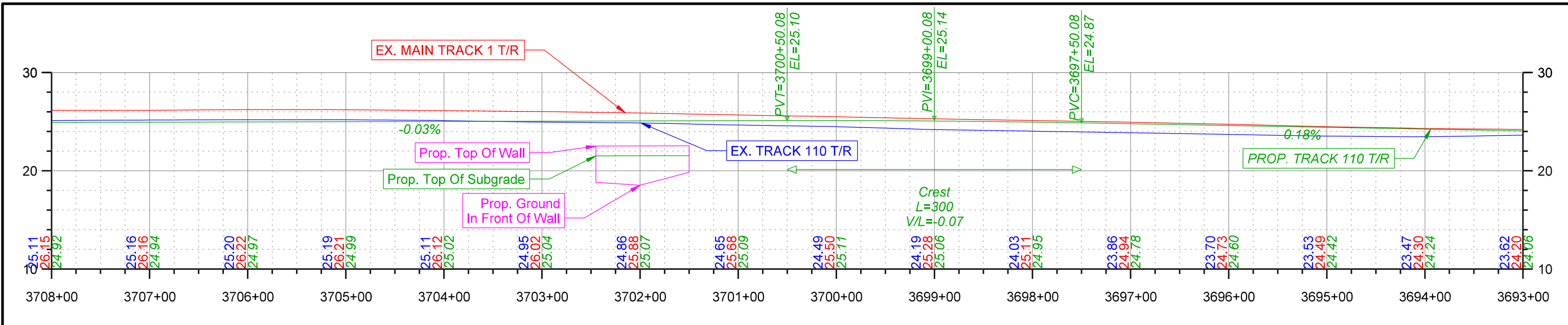
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CONTRACTOR SHALL TRIM EXISTING VEGETATION WITHIN UPRR ROW TO ENSURE IT DOES NOT OVERHANG PROPOSED GRADING LIMITS. (INCIDENTAL TO GRADING)



<p>Alfred Benesch & Company 14748 W. Center Rd., Ste 200 Omaha, NE 68144 402-333-5792</p>		DRAWN BY: CLH CHECKED BY: PWK DATE: 11/13/2025 SHEET NUMBER: P008 of 011	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: BERKELEY, CA MARTINEZ SUBDIVISION MP 4.86 - MP 7.05 DRILL TRACK REHABILITATION
		SHEET TITLE: TRACK PLAN & PROFILE	
		EXISTING DRAINAGE STRUCTURE BOLTED SHUT	
		CONSTRUCT 3,221 TF 136# CWR, WOOD TIES 24" OC	

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 11/15/2026



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<p>Alfred Benesch & Company 14748 W. Center Rd., Ste 200 Omaha, NE 68144 402-333-5792</p>		DRAWN BY: CLH	UNION PACIFIC RAILROAD LOCATION & DESCRIPTION: BERKELEY, CA MARTINEZ SUBDIVISION MP 4.86 - MP 7.05 DRILL TRACK REHABILITATION SHEET TITLE: TRACK PLAN & PROFILE
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		DATE: 11/13/2025	
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