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**COLORADO**  
**DEPARTMENT OF TRANSPORTATION**  
**M&S STANDARDS PLANS LIST**  
 July 31, 2019  
 Revised on May 16, 2024

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED  
 AND REVISED, APPLY TO THIS PROJECT WHEN USED  
 BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE  
 INDICATED BY A MARKED BOX , AND WILL BE ATTACHED TO THE  
 PLANS. ALL OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE  
 IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/22/2024	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code	
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**GENERAL NOTES:**

1. DEFINITIONS  
 A. OWNER - PROPERTY OWNER.  
 B. CONTRACTOR - AS DETERMINED BY BID.  
 C. ENGINEER - PROFESSIONAL ENGINEER OF RECORD.  
 D. BROOMFIELD - AUTHORIZED REPRESENTATIVE(S) OF THE CITY AND COUNTY OF BROOMFIELD ENGINEERING DIVISION AND PUBLIC WORKS DEPARTMENT; THE AGENCY OF JURISDICTION.
2. CONTRACTOR SHALL HAVE IN CONTRACTOR'S POSSESSION AT ALL TIMES ONE (1) COPY OF CONSTRUCTION DOCUMENTS STAMPED AND SIGNED BY ENGINEER AND BROOMFIELD., AND ONE (1) COPY OF THE LATEST EDITION OF THE BROOMFIELD STANDARDS AND SPECIFICATIONS. ALL WORK SHALL COMPLY WITH THE BROOMFIELD STANDARDS AND SPECIFICATIONS, LATEST EDITION. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR ON THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ENGINEER AND BROOMFIELD IMMEDIATELY.
3. WORK HOURS  
 A. ALL WORK ON THE PROJECT SHALL BE PERFORMED DURING REGULAR WORK HOURS, 7:00 A.M. UNTIL 7:00 P.M., MONDAY THROUGH FRIDAY. RESTRICTED HOURS MAY BE INCLUDED WITH CONDITIONS OF THE CITY COUNCIL RESOLUTION APPROVING THE PROJECT, OR WITHIN THE WORK PERMIT. ALL WORK ON THE PROJECT SHALL COMPLY WITH BROOMFIELD MUNICIPAL CODE CHAPTER 9-36.  
 B. CONTRACTOR SHALL NOT PERFORM WORK OUTSIDE REGULAR WORK HOURS OR ON SATURDAY, SUNDAY OR ANY BROOMFIELD OBSERVED HOLIDAY WITHOUT RECEIVING WRITTEN CONSENT FROM THE CITY ENGINEER OR DESIGNATED REPRESENTATIVE.  
 C. BROOMFIELD OBSERVED HOLIDAYS INCLUDE: NEW YEAR'S DAY, MARTIN LUTHER KING DAY, PRESIDENT'S DAY, MEMORIAL DAY, JUNETEENTH, INDEPENDENCE DAY, LABOR DAY, VETERAN'S DAY, THANKSGIVING DAY, FRIDAY FOLLOWING THANKSGIVING, CHRISTMAS EVE, CHRISTMAS DAY.  
 D. REQUEST FOR WORK OUTSIDE REGULAR WORK HOURS SHALL BE SUBMITTED BY THE OWNER OR CONTRACTOR BY 12:00 P.M. ON THE WEDNESDAY PRIOR TO THE PROPOSED DATE OF THE WORK. REFER TO SECTION 152.00, "SATURDAY, HOLIDAY AND AFTER HOURS WORK PERMIT" OF THE BROOMFIELD STANDARDS AND SPECIFICATIONS.
4. PRECONSTRUCTION MEETINGS  
 A. OWNER SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH BROOMFIELD ENGINEERING STAFF AT LEAST 3 BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. THOSE IN ATTENDANCE SHALL INCLUDE:  
 - OWNER  
 - ENGINEER  
 - BROOMFIELD  
 - CONTRACTOR  
 - GEOTECHNICAL ENGINEER  
 - SURVEYOR  
 - ANY OTHER AFFECTED AGENCIES  
 B. CONSTRUCTION DOCUMENTS WITH THE BROOMFIELD REVIEW STAMP AND SIGNATURE SHALL BE DISTRIBUTED AT THE PRECONSTRUCTION MEETING.  
 C. THERE SHALL BE A SEPARATE ONSITE PRECONSTRUCTION CONFERENCE WITH BROOMFIELD PUBLIC WORKS AT LEAST 48 HOURS PRIOR TO CONNECTING TO EXISTING BROOMFIELD UTILITIES.
5. CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY (R.O.W.) AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, AND AREAS UNDER OWNERSHIP OF OWNER, UNLESS OTHERWISE AUTHORIZED BY THE AFFECTED PROPERTY OWNER AND ACKNOWLEDGED BY BROOMFIELD. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL OBTAIN WRITTEN AGREEMENTS FOR INGRESS AND EGRESS TO THE WORK SITE FROM ADJACENT PRIVATE PROPERTY OWNERS. ACCESS TO ANY ADJACENT PRIVATE PROPERTY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
6. CONTRACTOR SHALL VERIFY ACCURACY BETWEEN WORK SET FORTH ON THESE CONSTRUCTION DOCUMENTS AND WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER AND BROOMFIELD PRIOR TO START OF CONSTRUCTION. ENGINEER SHALL COORDINATE ANY PROPOSED CHANGES WITH BROOMFIELD.
7. FOR DEVELOPMENT WORK, OWNER SHALL OBTAIN AT OWNER' EXPENSE, ALL PERMITS NECESSARY TO PERFORM THE PROPOSED WORK.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION:  
 A. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO BROOMFIELD FOR APPROVAL PRIOR TO CONSTRUCTION.  
 B. ALL SIGNS, STRIPING AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AND CDOT M&S STANDARDS, LATEST EDITION.  
 C. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND CLEANING OF TRAFFIC CONTROL DEVICES.  
 D. CONTRACTOR SHALL MAINTAIN EXISTING PAVEMENT MARKINGS DURING CONSTRUCTION OPERATIONS, IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND BROOMFIELD STANDARDS AND SPECIFICATIONS.  
 E. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE SURFACE OR TEXTURE OF THE PAVEMENT OR EXISTING SURFACING. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY ARE NOT VISIBLE UNDER DAY OR NIGHT CONDITIONS.
9. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR BICYCLISTS AND PEDESTRIANS ALONG THE BROOMFIELD TRAIL CROSSING AT THE EASTERN END OF THE PROJECT. NO CLOSURES OF THE TRAIL ARE PERMITTED AT ANY TIME. ANY DISTURBANCES TO THE TRAIL SHALL BE FULLY RESTORED FOLLOWING CONSTRUCTION.

**GENERAL NOTES (CONTINUED):**

10. WHEN DISCHARGING GROUNDWATER, ALL DEWATERING METHODS SHALL BE IN CONFORMANCE WITH ALL LAWS AND REGULATIONS OF THE STATE INCLUDING OBTAINING A COLORADO DISCHARGE PERMIT SYSTEM FOR CONSTRUCTION DEWATERING WASTEWATER DISCHARGE- AND SUBJECT TO THE APPROVAL OF BROOMFIELD. CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORMWATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK.
11. CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DOCUMENTS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING NOTIFICATIONS:  
 A. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT COLORADO 811 AT C0811 OR C0811.ORG TO HAVE LOCATIONS OF UNDERGROUND UTILITIES MARKED BY ALL UNDERGROUND COMPANIES. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.  
 B. BROOMFIELD UTILITY CUSTOMERS FOR POTENTIAL SERVICE OUTAGES AND COORDINATION WITH BROOMFIELD PUBLIC WORKS FOR DETERMINATION OF MINIMUM TIME REQUIREMENT. BROOMFIELD PUBLIC WORKS SHALL BE NOTIFIED TWO BUSINESS DAYS (48 HOURS) IN ADVANCE TO SCHEDULE AN OUTAGE.  
 C. BROOMFIELD 24 HOURS IN ADVANCE FOR OBSERVATIONS OF WORK IN PROGRESS. OBSERVATION AND ONSITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE OR APPROVAL BY BROOMFIELD STAFF OF CONTRACTOR'S WORK OR CONTRACTUAL COMMITMENT. IF WORK IS SUSPENDED FOR LONGER THAN 5 DAYS AFTER INITIAL START-UP, CONTRACTOR SHALL NOTIFY THE BROOMFIELD CONSTRUCTION INSPECTION SUPERVISOR ONE (1) BUSINESS DAYS (24 HOURS) PRIOR TO RESTART OF CONSTRUCTION.  
 D. BROOMFIELD OFFICE IN THE EVENT OF AN EMERGENCY, AT (303) 438-6380 DURING REGULAR WORK HOURS OR (303) 438-6400 AFTER HOURS.  
 E. BROOMFIELD AT (303) 438-6380 AND NORTH METRO FIRE RESCUE AT (720) 887-8217, EX. 2221 FOR ANY STREET CLOSURES AND EXISTING FIRE HYDRANTS TAKEN OUT OF SERVICE, AT LEAST 2 BUSINESS DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION.
13. CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED UNDER THE DIRECTION OF A COLORADO LICENSED PROFESSIONAL LAND SURVEYOR AND AS APPROVED BY BROOMFIELD.
14. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY CONSTRUCTION DEBRIS AND MUD TRACKED ONTO EXISTING ROADWAYS. CONTRACTOR SHALL REPAIR ANY EXCAVATION OR PAVEMENT FAILURES CAUSED BY THE CONSTRUCTION.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL STATE AND BROOMFIELD DUST AND EROSION CONTROL ORDINANCES. CONSTRUCTION VEHICLES SHALL USE TRUCK ROUTES DESIGNATED BY BROOMFIELD.
16. ALL CONCRETE AND ASPHALT MIXTURE DESIGNS SHALL BE APPROVED BY BROOMFIELD PRIOR TO PLACEMENT OF CONCRETE AND ASPHALT.
17. WORK IN PUBLIC STREETS SHALL BE PERFORMED IN A MANNER THAT PROVIDES MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE GENERAL PUBLIC.
18. ALL PAVEMENT CUTS AND EXPLORATORY POTHoles SHALL BE REPAIRED AS REQUIRED BY BROOMFIELD.
19. NO ROADWAY SHALL BE OPEN CUT UNLESS APPROVED BY BROOMFIELD.
20. OWNER SHALL SUBMIT A PAPER COPY OF REDLINED RECORD CONSTRUCTION DOCUMENTS TO BROOMFIELD PRIOR TO THE CONSTRUCTION ACCEPTANCE INSPECTION. REFER TO SECTION 200.00 OF THE BROOMFIELD STANDARDS AND SPECIFICATIONS FOR ADDITIONAL RECORD DOCUMENT SUBMITTAL REQUIREMENTS.
21. PRIOR TO CONSTRUCTION ACCEPTANCE, ENGINEER SHALL SUBMIT A PLAN OF PROPOSED LOCATIONS FOR INSTALLATION OF RANGE POINTS TO BROOMFIELD FOR APPROVAL. RANGE POINTS SHALL BE SET IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLES 51 AND 53 OF TITLE 38 OF THE COLORADO REVISED STATUTES, AND AS REQUIRED BY THE BYLAWS AND RULES OF PROCEDURE OF THE COLORADO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS. RANGE POINTS SHALL BE SET IN VALVE BOXES THAT COMPLY WITH THE BROOMFIELD STANDARDS AND SPECIFICATIONS WITH BOX LIDS MARKED "SURVEY POINT", OR AS OTHERWISE APPROVED BY THE CITY ENGINEER.
22. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY AND COUNTY OF BROOMFIELD DETAILS AND SPECIFICATIONS ALONG WITH CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND ITS SUPPLEMENTS.
23. ALL WORK ZONE TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DIVICES (MUTCD), LATEST EDITION, THE CURRENT COLORADO SUPPLEMENTS, AND THE APPROVED PLANS AND SPECIFICATIONS.
24. ASBESTOS IS NOT ANTICIPATED ON THE PROJECT.
25. IF ANY PALEONTOLOGICAL OR ARCHEOLOGICAL RESROUCES ARE UNCOVERED DURING THE PROJECT CONSTRUCTION ALL WORK SHALL BE STOPPED AND THE FOLLOWING SHALL BE NOTIFIED IMMEDIATELY FOR FURTHER DIRECTION AND/OR FOR A SITE VISIT.

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**GENERAL NOTES (CONTINUED):**

26. THE CONTRACTOR SHALL CONTROL FUGITIVE DUST THROUGH IMPLEMENTATION OF SECTIONS 107.24, 209, AND 250 OF CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE AIR POLLUTION CONTROL DIVISION'S AIR POLLUTANT EMISSION NOTIFICATION (APEN) REQUIREMENTS.
27. THE FOLLOWING BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED DURING CONSTRUCTION:  
 - MAINTAIN ENGINES AND EXHAUST SYSTEMS ON CONSTRUCTION EQUIPMENT AND VEHICLES IN GOOD WORKING ORDER. PROHIBIT TAMPERING WITH EQUIPMENT TO INCREASE HORSEPOWER OR DISABLING EMISSION CONTROL DEVICES. EQUIPMENT IS SUBJECT TO INSPECTION BY THE PROJECT MANAGER TO ENSURE MAINTENANCE IS CONDUCTED REGULARLY.  
 - PROHIBIT UNNECESSARY IDLING OF CONSTRUCTION EQUIPMENT AND VEHICLES.  
 - LOCATE STAGING AREAS AND STATIONARY CONSTRUCTION EQUIPMENT/DIESEL ENGINES AS FAR AS POSSIBLE FROM RESIDENCES AND OTHER SENSITIVE RECEPTORS.  
 - COVER, WET, COMPACT, OR USE CHEMICAL STABILIZATION TO CONTROL DUST FROM DISTURBED AREAS AND EXCAVATED MATERIALS DURING CONSTRUCTION. MINIMIZE DISTURBED AREAS, PARTICULARLY DURING DRY WEATHER CONDITIONS, AND USE WIND BARRIERS AS APPROPRIATE.  
 - EMPLOY WHEEL WASH STATIONS AT POINTS OF INGRESS/EGRESS. USE STREET SWEEPERS TO REMOVE SOIL TRACKED ONTO ADJACENT ROADWAYS.
28. THE FOLLOWING MEASURES SHALL BE TAKEN TO THE EXTENT PRACTICABLE TO AVOID, MINIMIZE AND MITIGATE TEMPORARY ADVERSE NOISE IMPACTS FROM CONSTRUCTION ACTIVITIES:  
 - USE ALTERNATIVE CONSTRUCTION METHODS OR EQUIPMENT THAT PRODUCES LESS NOISE, INCLUDING ELECTRICALLY POWERED EQUIPMENT.  
 - RESCHEDULE CONSTRUCTION OPERATIONS TO OCCUR DURING DAYTIME HOURS.  
 - NOTIFY NEIGHBORS IN ADVANCE WHEN CONSTRUCTION NOISE MAY OCCUR.  
 - KEEP NOISY ACTIVITIES AND STATIONARY EQUIPMENT AS FAR FROM SENSITIVE RECEPTORS AS POSSIBLE.  
 - PROHIBIT UNNECESSARY IDLING OF CONSTRUCTION EQUIPMENT AND VEHICLES.  
 - MAINTAIN EXHAUST SYSTEMS ON EQUIPMENT IN GOOD WORKING ORDER. ALL CONSTRUCTION EQUIPMENT IS SUBJECT TO INSPECTION BY THE CONSTRUCTION PROJECT MANAGER TO ENSURE MAINTENANCE IS BEING CONDUCTED. EQUIPMENT AND VEHICLES WITHOUT MUFFLED EXHAUST SYSTEMS WILL NOT BE ALLOWED ON THE WORK SITE.  
 - USE PROPERLY DESIGNED ENGINE ENCLOSURES AND EMPLOY TEMPORARY ACOUSTIC BARRIERS AROUND STATIONARY CONSTRUCTION NOISE SOURCES.

**UTILITIES:**

1. UTILITY INFORMATION AS SHOWN ON THE PLAN SHEETS SHOULD BE CONSIDERED QUALITY LEVEL D PER ASCE 38-02, UNLESS OTHERWISE NOTED. THE CONTRACTOR'S ATTENTION IS DIRECTED TO PARAGRAPH 105.11 OF THE CDOT STANDARD SPECIFICATIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL CALL 1-800-922-1987 FOR UTILITY LOCATIONS AT LEAST 2 WORKING DAYS PRIOR TO ANY DIGGING, NOT INCLUDING THE DAY OF ACTUAL CONTACT.
2. IT IS ESTIMATED THAT (40) HOURS WILL BE REQUIRED FOR UTILITY POTHOLING.
3. THE FOLLOWING IS A LIST OF KNOW UTILITIES WITH SERVICES WITHIN THE PROJECT LIMITS.  
 - CITY OF BROOMFIELD UTILITIES DIVISION:  
 SHAWN DESOTEL, SDESOTEL@BROOMFIELD.ORG, 303-464-5118  
  
 - XCEL ENERGY ELECTRIC:  
 JAMIE ELLIS, JAMIE.A.ELLIS@XCELENERGY.COM, 303-245-2325  
  
 - XCEL ENERGY GAS:  
 BCLCD@XCELENERGY.COM, 1-800-628-2121  
  
 - LUMEN TECHNOLOGIES:  
 ROBERT DAVIS, RDAVIS@CONGRUEX.COM, 720-854-4341  
  
 - COMCAST CORPORATION:  
 MICHAEL HOWARD, MICHAEL\_HOWARD2@COMCAST.COM, 720-219-0642

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/22/2024	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  _____ CITY ENGINEER (OR DESIGNEE) _____ DATE	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code	
	File Name: 30322_GeneralNotes01.dgn	Date:	Comments	Init.			No Revisions:	GENERAL NOTES			STU M145-013
	Horiz. Scale:      Vert. Scale: As Noted						Revised:	Designer: Z. CRIMMINS	Checker: D. DYER		
	Unit Information							Detailer: Z. CRIMMINS			Sheet Number <b>3</b>
	 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806							Sheet Subset: GEN NOTES	Subset Sheets: 01 of 02		

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**ENVIRONMENTAL:**

THIS PROJECT MAY REQUIRE THE DISTURBANCE/REMOVAL OF METAL STRUCTURES. IT IS UNKNOWN IF THESE COMPONENTS ARE PAINTED WITH LEAD-CONTAINING OR LEAD-BASED PAINT. THE CONTRACTOR SHALL TREAT THESE ITEMS AS LEAD-CONTAINING OR LEAD-BASED UNLESS SAMPLING IS CONDUCTED THAT DEMONSTRATES OTHERWISE. CDDT REQUIRES THAT ALL METAL PROJECT COMPONENTS (E.G., LIGHT POLES, METAL RAILING, AND BRIDGE GIRDERS) BE RECYCLED. THE RECYCLING FACILITY MUST BE NOTIFIED THAT METAL PROJECT COMPONENTS MAY CONTAIN LEAD. REGARDLESS OF LEAD CONTENT, THE CONTRACTOR MUST COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATION 1926.62 FOR WORKER SAFETY, AS WELL AS CDDT SPECIFICATION 250 ENVIRONMENTAL, HEALTH, AND SAFETY MANAGEMENT.

THE CONTRACTOR SHALL COMPLY WITH THE MIGRATORY BIRD TREATY ACT (MBTA) AT ALL TIMES. PER CDDT'S REVISION OF SECTION 240: PROTECTION OF MIGRATORY BIRDS; A QUALIFIED BIOLOGIST SHALL CONDUCT PRE-CONSTRUCTION SURVEYS FOR NESTING RAPTORS WITHIN 1/2 MILE OF THE PROJECT AREA, FOR ANY WORK OCCURRING BETWEEN FEBRUARY 15 AND AUGUST 31. THE INCIDENTAL TAKING OF A MIGRATORY BIRD SHALL BE REPORTED TO THE ENGINEER. DOCUMENTATION OF NEST SURVEYS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. IF AN ACTIVE RAPTOR NEST IS LOCATED WITHIN COLORADO PARKS AND WILDLIFE'S (CPW) RECOMMENDED SEASONAL BUFFERS, CPW SHALL BE CONTACTED REGARDING THE USE OF MITIGATION MEASURES TO PREVENT DISTURBANCE TO NESTING BIRDS DURING CONSTRUCTION.

THE CONTRACTOR SHALL NOT PARK, STAGE EQUIPMENT, OR OPERATE HEAVY EQUIPMENT IN AREAS WITH ACTIVE PRAIRIE DOG BURROWS. AT NO TIME WILL EARTH-MOVING ACTIVITIES RESULT IN THE BURYING OF LIVING PRAIRIE DOGS PER CDDT'S IMPACTED BLACK-TAILED PRAIRIE DOG POLICY.

A BURROWING OWL SURVEY WILL BE CONDUCTED BY A QUALIFIED WILDLIFE BIOLOGIST AT ALL BLACK-TAILED PRAIRIE DOG COLONIES IF CONSTRUCTION OR PRAIRIE DOG MANAGEMENT ACTIVITIES BEGINS BETWEEN MARCH 1 AND OCTOBER 31. SURVEYS SHALL FOLLOW THE RECOMMENDED SURVEY PROTOCOL BY COLORADO PARKS AND WILDLIFE.

**CONSTRUCTION, PAVEMENT, CURB AND GUTTER, SIDEWALK AND CURB RAMPS:**

REMOVAL OF PAVEMENT, CURB AND GUTTER, OR SIDEWALK REQUIRED ON THIS PROJECT SHALL BE SAW CUT TO A VERTICAL EDGE. SAWCUT COSTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

THE CONTRACTOR SHALL FURNISH A COMPLETE WRITTEN INVENTORY OF ALL EXISTING SIGNS ON THE PROJECT PRIOR TO ANY SIGNING WORK TAKING PLACE. THIS INVENTORY SHALL INCLUDE LOCATION, STATION, SIZE, COLOR, AND LEGEND, AND SHALL BE SUBMITTED TO THE ENGINEER. NO SIGNING WORK WILL BE PAID UNTIL THIS INVENTORY IS SUBMITTED AND APPROVED BY THE ENGINEER. THIS WORK WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

RESET GROUND SIGN REQUIRES NEW POST. NEW POSTS FOR RESET GROUND SIGN ARE TABULATED AND WILL BE PAID FOR SEPARATELY.

CUTTING OR PATCHING OF PERMANENT PAVEMENT WILL NOT BE PERMITTED WITHOUT APPROVAL OF ENGINEER.

EROSION CONTROL FOR THIS PROJECT SHALL FOLLOW THE CITY AND COUNTY OF BROOMFIELD CONSTRUCTION BEST MANAGEMENT PRACTICES AND DETAILS. ALL MATERIALS, WORKMANSHIP AND INSTALLATION METHODS SHALL BE SUBJECT TO INSPECTION BY BROOMFIELDS INSPECTOR.

ALL DETAILS WILL CONFORM TO THE MOST CURRENT BROOMFIELD AND CDDT STANDARD DETAILS.

A TYPICAL 1.5% CROSS SLOPE (2% MAX.) ON ALL SIDEWALKS SHALL BE USED.

FOR PRELIMINARY PLAN QUANTITIES OF MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:  
 DILUTED EMULSIFIED ASPHALT (SLOW SETTING): 0.10 GAL. PER SQ. YD. (DILUTED)  
 BITUMINOUS PAVEMENT: 110 LBS. PER SQ. YD. PER 1" THICKNESS.  
 AGGREGATE BASE COURSE: 3590 LBS. PER CU. YD.

WHEN ORDERED BY THE ENGINEER A TACK COAT OF EMULSIFIED ASPHALT (SLOW-SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE THE BOND. DILUTED EMULSIFIED ASPHALT FOR TACK SHALL CONSIST OF PART EMULSIFIED ASPHALT AND PART WATER. RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.

ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.

PAVEMENT SMOOTHNESS SHALL BE EVALUATED PER SECTION 105.07(A) 2 OF THE 2021 CDDT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PAVING SHALL NOT START UNTIL SUBGRADE COMPACTION TESTS (INCLUDING PROOF ROLLING) ARE TAKEN AND ACCEPTED BY THE ENGINEER AND/OR BROOMFIELD REPRESENTATIVE.

WHEN MORE THAN ONE LIFT OF BITUMINOUS PAVEMENT IS BEING PLACED, LONGITUDINAL JOINTS SHALL BE OFFSET BY A MINIMUM OF 12' BETWEEN LIFTS.

**CONSTRUCTION, PAVEMENT, CURB AND GUTTER, SIDEWALK AND CURB RAMPS (CONTINUED):**

ALL ASPHALT PAVEMENT REQUIRED TO BE REMOVED WITHIN THE PROJECT LIMITS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. THE REMOVED ASPHALT PAVEMENT SHALL BE DISPOSED OF OFF SITE. EXCEPT WHERE THE MATERIAL MAY BE USED AS FILL MATERIAL AS APPROVED BY A BROOMFIELD REPRESENTATIVE. WHEN THE MATERIAL IS TO BE USED AS FILL MATERIAL, THE MATERIAL SHALL BE BROKEN DOWN SO NO SECTIONS ARE LARGER THAN 6 INCHES IN DIMENSION.

**EARTHWORK:**

WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED AND WILL NOT BE PAID FOR SEPARATELY.

DEPTH OF MOISTURE - DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

FULL DEPTH OF ALL EMBANKMENTS  
 BASES OF CUTS AND FILLS = 12 INCHES

EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.

THE TYPE OF COMPACTION FOR THIS PROJECT SHALL BE:  
 SUBGRADE SOILS WHICH CLASSIFY BETWEEN A-1 AND A-5 IN ACCORDANCE WITH THE AASHTO SOIL CLASSIFICATION SYSTEM SHOULD BE COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR (AASHTO T-180) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2 PERCENTAGE POINTS OF OPTIMUM. SUBGRADE SOILS AND FILL MATERIAL WHICH CLASSIFY AS A-6 AND A-7 SOILS SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR (AASHTO T-99) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT BETWEEN OPTIMUM AND 3 PERCENTAGE POINTS ABOVE OPTIMUM.

PROOF ROLLING SHOULD BE PERFORMED AFTER THE SPECIFIED COMPACTION IS OBTAINED. PROOF ROLLING SHOULD BE PERFORMED WITH HEAVY RUBBER Tired EQUIPMENT WITH A TIRE PRESSURE OF AT LEAST 100 PSI CAPABLE OF APPLYING A MINIMUM LOAD OF 18-KIPS PER AXLE. AREAS WHERE EXCESSIVE DEFLECTION OCCURS SHOULD BE RIPPED, SCARIFIED, WETTED OR DRIED IF NECESSARY, AND RECOMPACTED TO THE REQUIRED MOISTURE AND DENSITY SPECIFICATIONS. PROOF ROLLING SHALL NOT BE MEASURED OR PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE EARTHWORK.

**STORM SEWER - DRAINAGE**

ALL REINFORCED CONCRETE PIPE SHALL BE COMPLETE IN PLACE. STRUCTURE EXCAVATION AND STRUCTURE BACKFILL QUANTITIES WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PIPE.

ALL CONCRETE PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL USE RUBBER GASKETS FOR THE INSTALLATION OF REINFORCED CONCRETE PIPE. THE RUBBER GASKETED JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 443M (ASTM C 443) AND SHALL BE FLEXIBLE AND ABLE TO WITHSTAND EXPANSION, CONTRACTION, AND SETTLEMENT.

CDDT CLASS D CONCRETE SHALL BE USED FOR ALL CONCRETE DRAINAGE STRUCTURES.

THE INLET AND MANHOLE RIM AND GRATE ELEVATIONS SHOWN IN THE PLANS SHALL BE VERIFIED AND ADJUSTED BY THE CONTRACTOR AS NECESSARY TO ACCOMMODATE THE FINISHED ELEVATIONS OF THE PAVEMENT AND GROUND SURFACE TO PROVIDE A SMOOTH TRANSITION.

THE WORK REQUIRED TO PROVIDE TEMPORARY DRAINAGE AND SHORING TO FACILITATE THE INSTALLATION OF DRAINAGE STRUCTURES INCLUDING ALL LABOR, MATERIALS, AND MAINTENANCE SHALL NOT BE MEASURED OR PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

**CONSTRUCTION TRAFFIC CONTROL:**

ALL WORK ZONE TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, THE CURRENT COLORADO SUPPLEMENTS, AND THE APPROVED PLANS AND SPECIFICATIONS.

ALL WORK ZONE TRAFFIC CONTROL DEVICES USED IN CONSTRUCTION ZONES SHALL BE REFLECTIVE AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND WITH CDDT'S LATEST SPECIFICATIONS.

THE FIRST TWO REFLECTIVE DRUMS WILL BE EQUIPPED WITH FLASHERS IF INTENDED TO BE LEFT IN PLACE AT NIGHT.

NO DROP-OFFS OF MORE THAN ONE INCH ARE ALLOWED AT NIGHT, ON WEEKENDS, OR ON HOLIDAYS, WITHOUT APPROVAL FROM THE CITY AND COUNTY. A MINIMUM OF A 6:1 TAPER OF FILL MATERIAL SHALL BE USED TO FILL ALL DROP-OFFS DURING THESE TIMES.

ALL DRUMS SHALL BE MOVED TO THE OUTSIDE EDGE OF THE ROADWAY AT NIGHT, ON WEEKENDS AND ON HOLIDAYS UNLESS OTHERWISE APPROVED BY THE CITY AND COUNTY.

FLAGGER SYMBOL SIGNS SHALL BE INSTALLED AND FLAGGERS SHALL BE UTILIZED AS DEEMED NECESSARY.

THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY PAVEMENT MARKINGS BY EITHER SAND BLASTING OR WATER BLASTING IN AREAS WHERE NEW PAVEMENT IS NOT PROPOSED. REMOVAL OF THESE TEMPORARY PAVEMENT MARKINGS SHALL BE MEASURED AND PAID FOR AS REMOVAL OF PAVEMENT MARKING.

**STANDARD ABBREVIATIONS / DEFINITIONS**

THE FOLLOWING IS A LIST OF ABBREVIATIONS USED IN THE CONTRACT DOCUMENTS:

- HCL - HORIZONTAL CONTROL LINE
- PGL - PROFILE GRADE LINE
- HMA - HOT MIX ASPHALT
- NTS - NOT TO SCALE
- R.O.W. - RIGHT OF WAY
- RCP - REINFORCED CONCRETE PIPE
- POB - POINT OF BEGINNING
- POE - POINT OF ENDING
- PI - POINT OF INTERSECTION
- PC - POINT OF CURVATURE
- PT - POINT OF TANGENT
- VPC - VERTICAL POINT OF CURVATURE
- VPI - VERTICAL POINT OF INTERSECTION
- VPT - VERTICAL POINT OF TANGENT
- VPRC - VERTICAL POINT OF REVERSING CURVE
- NC - NORMAL CROWN
- NIC - NOT IN CONTRACT
- SW - SIDEWALK
- TOC - TOP OF CURB
- INV - INVERT

**MISCELLANEOUS ITEMS:**

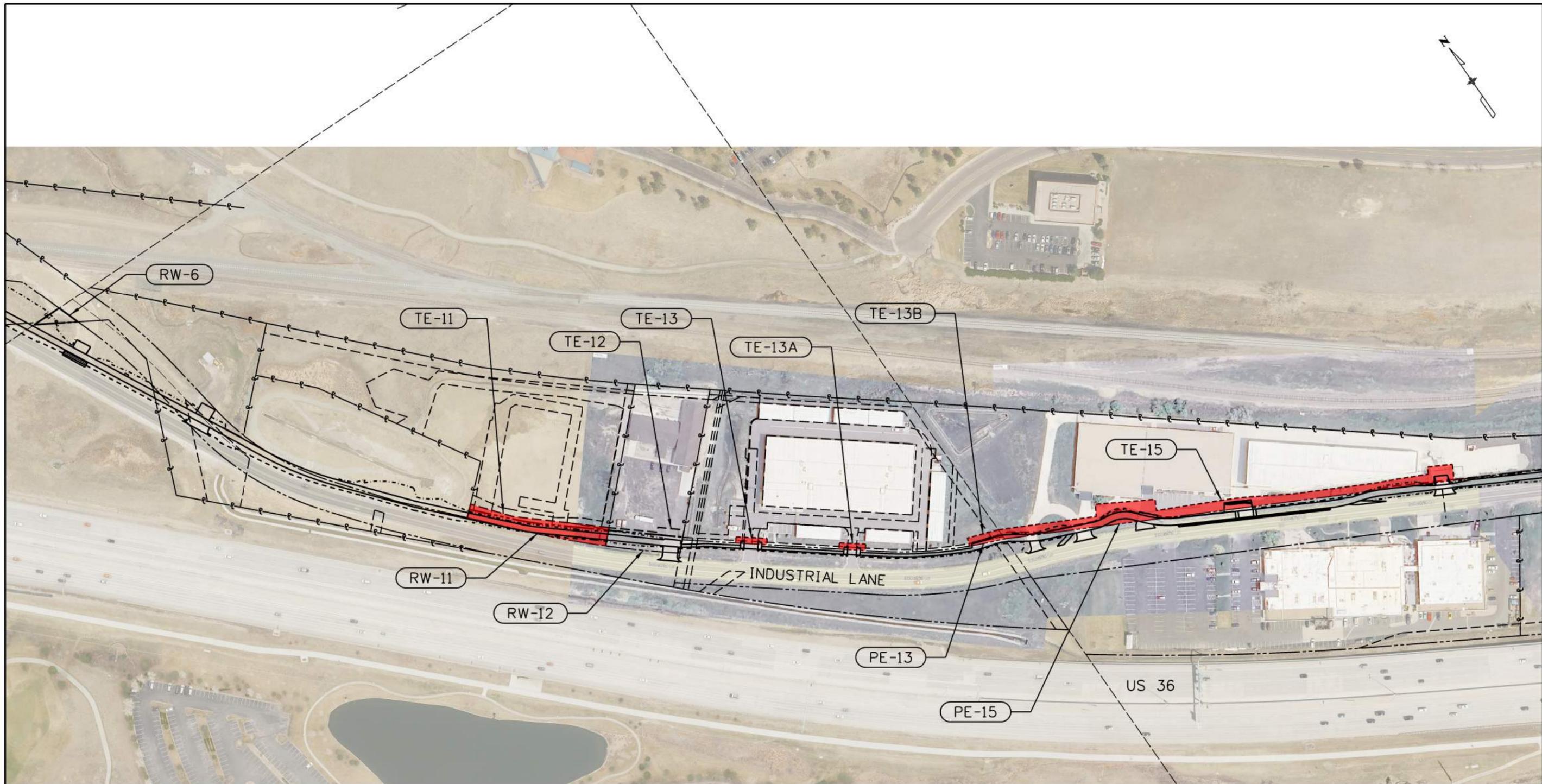
THE FOLLOWING ITEMS FOR THIS PROJECT SHALL BE PAID FOR AS:

201-00000	CLEARING AND GRUBBING	LS	1
203-01597	POTHOLING	HR	40
217-00020	HERBICIDE TREATMENT	HR	40
240-00000	WILDLIFE BIOLOGIST	HR	24
240-00100	PRAIRIE DOG MANAGEMENT	LS	1
620-00020	SANITARY FACILITY	EACH	1
625-00000	CONSTRUCTION SURVEYING	LS	1
626-00000	MOBILIZATION	LS	1
629-01065	SURVEY MONUMENT (TYPE 5S)	EACH	3
700-70010	F/A MINOR CONTRACT REVISIONS	F/A	1
700-70016	F/A FUEL COST ADJUSTMENT	F/A	1
700-70023	F/A ON-THE-JOB TRAINEE	F/A	1
700-70310	F/A LANDSCAPING	F/A	1
700-70380	F/A EROSION CONTROL	F/A	1

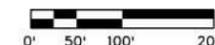
629-01065 SURVEY MONUMENT (TYPE 5S)			
POINT	NORTHING	EASTING	DESCRIPTION
1234	1216830.654	3109388.487	NOT FOUND
1235	1216727.082	3109469.523	3-1/4" C.D.O.T. ALUMINUM CAP PLS 24961
1236	1216532.678	3109644.187	1-1/2" ALUMINUM CAP ILLEGIBLE ON A #5 REBAR

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	File Name: 30322_GeneralNotes02.dgn	Date:	Comments	Init.			No Revisions:	<b>GENERAL NOTES</b>		STU M145-013	
	Horiz. Scale:      Vert. Scale: As Noted						Revised:	Designer: Z. CRIMMINS	Checker: D. DYER	23593	
	Unit Information						Void:			23593	
	8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806							Sheet Subset: GEN NOTES	Subset Sheets: 02 of 02	Sheet Number <b>4</b>	

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**LEGEND:**  
 "NO WORK ZONE" UNTIL APPROVED BY CITY AND COUNTY OF BROOMFIELD.



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 File Name: ND WORK EXHIBIT.dgn  
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 Unit Information  
 Stanley Consultants INC. 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



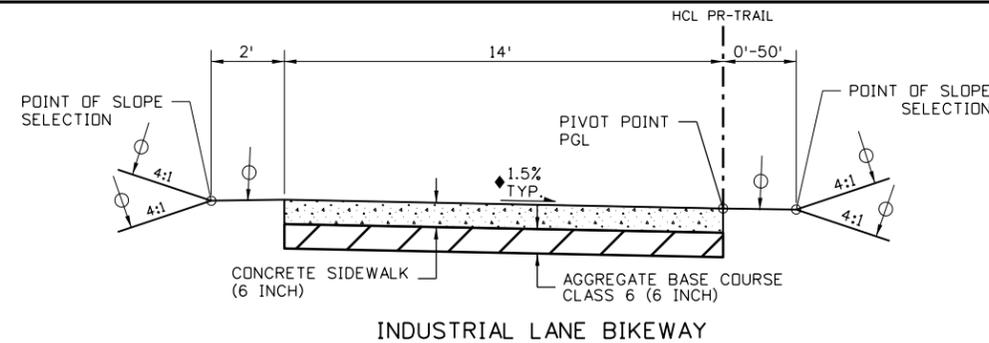
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 CITY ENGINEER (OR DESIGNEE) DATE

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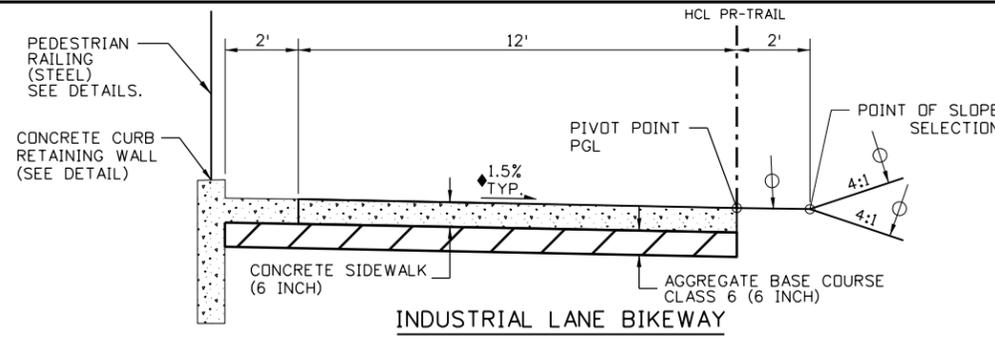
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 "NO WORK ZONE" EXHIBIT**  
 Designer: D. DYER  
 Checker: S. ZARZECKI  
 Detailer: D. DYER  
 Sheet Subset: EXHIBIT  
 Subset Sheets: 01 of 01

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **5**

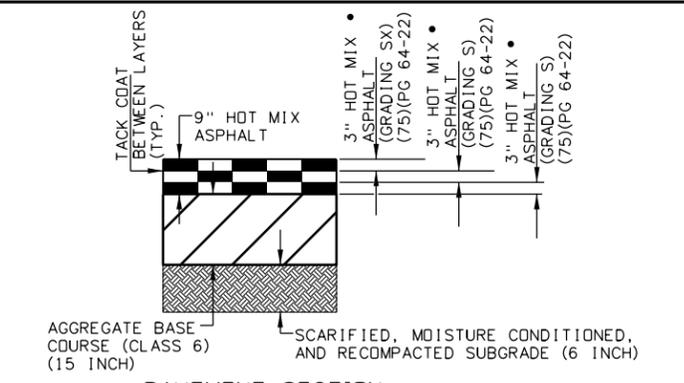
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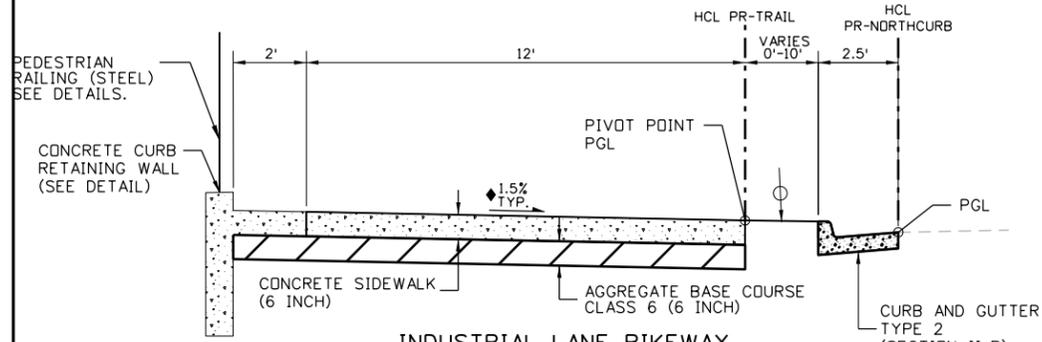
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TYPICAL SECTION  
STA: 107+00.00 TO STA: 108+55.00



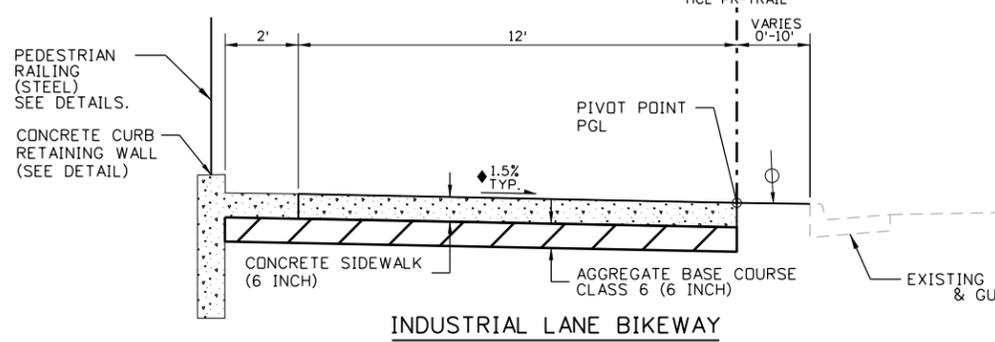
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STA: 105+70.00 TO STA: 107+00.00



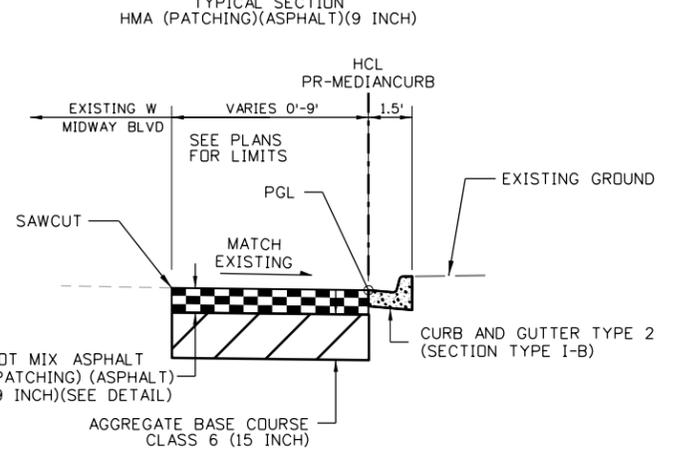
**PAVEMENT SECTION**  
TYPICAL SECTION  
HMA (PATCHING) (ASPHALT) (9 INCH)



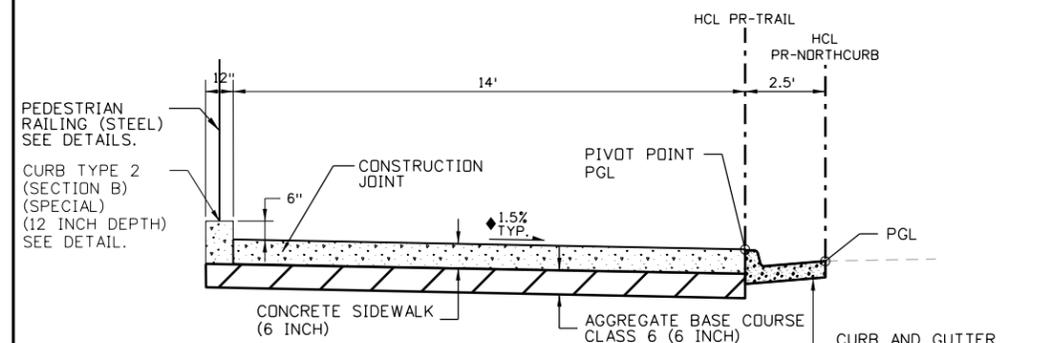
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TYPICAL SECTION  
STA: 100+22.60 TO STA: 104+02.78  
STA: 105+40.71 TO STA: 105+70.00  
STA: 153+64.00 TO STA: 155+21.37



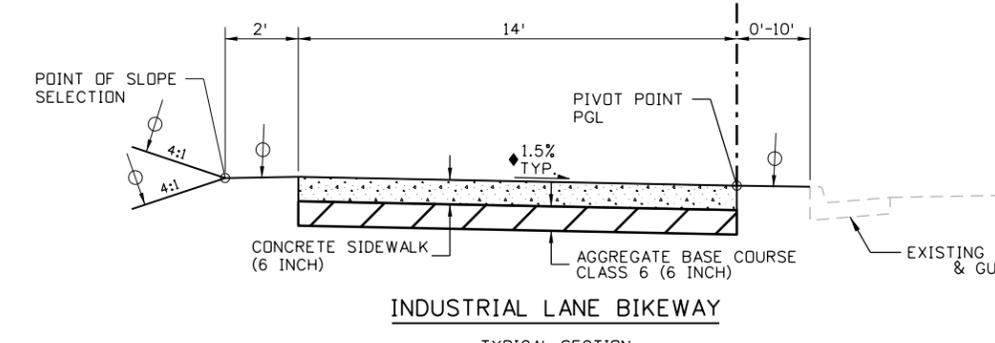
**INDUSTRIAL LANE BIKEWAY**  
TYPICAL SECTION  
STA: 108+55.00 TO STA: 109+69.65  
STA: 110+25.46 TO STA: 111+00.00



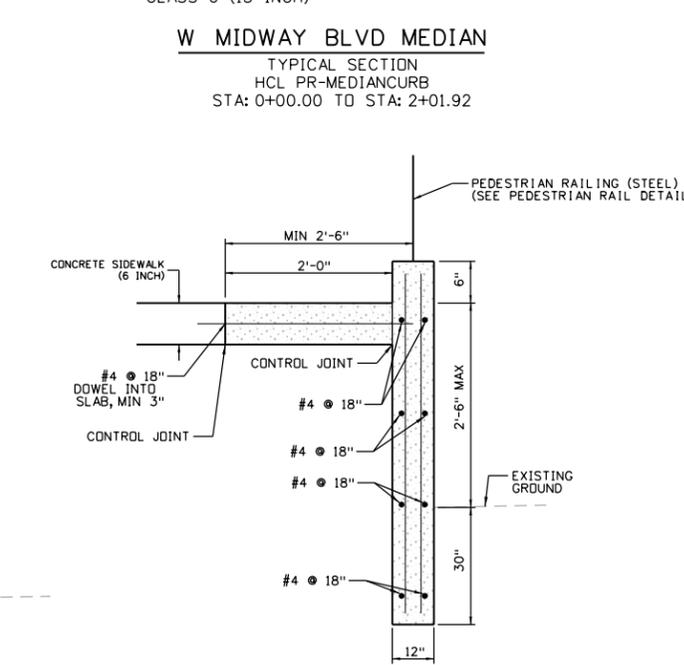
**W MIDWAY BLVD MEDIAN**  
TYPICAL SECTION  
HCL PR-MEDIAN CURB  
STA: 0+00.00 TO STA: 2+01.92



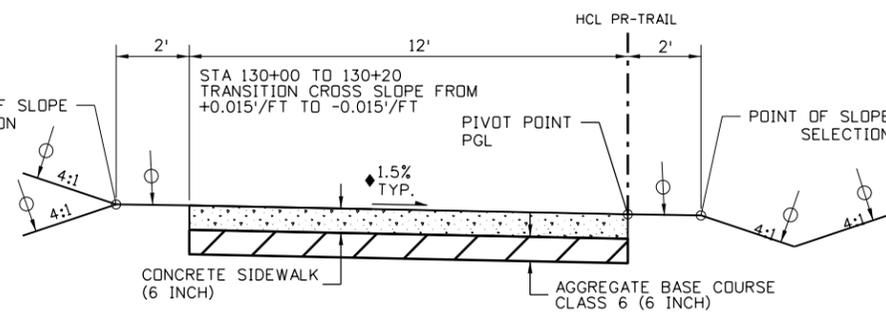
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TYPICAL SECTION  
STA: 104+02.78 TO STA: 105+40.71



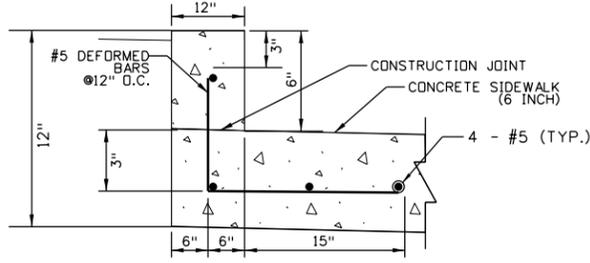
**INDUSTRIAL LANE BIKEWAY**  
TYPICAL SECTION  
STA: 111+00.00 TO STA: 113+80.00



**CONCRETE CURB RETAINING WALL DETAIL**  
NOTE: CONCRETE CURB RETAINING WALL TO BE PAID FOR AS CONCRETE CLASS B. ALL REINFORCING STEEL FOR CONCRETE CURB RETAINING WALL WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN CONCRETE CLASS B. ALL REINFORCING STEEL SHALL BE EPOXY COATED.



**INDUSTRIAL LANE BIKEWAY**  
TYPICAL SECTION  
STA: 113+80.00 TO STA: 130+00.00



**CURB TYPE 2 (SECTION B) (SPECIAL)**  
NOTE: CURB TYPE 2 (SECTION B) (SPECIAL) SHALL INCLUDE REINFORCING.

**NOTES:**  
1. BREAK POINTS ON SLOPES AND IN BOTTOM OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.

**LEGEND:**  
• SEE PLANS FOR LIMITS  
THE CONTRACTOR WILL BE REQUIRED TO PLACE 6" OF TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.  
♦ SEE CROSS-SLOPE TABLE FOR TRANSITION LIMITS

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Horiz. Scale: 1"=10' Vert. Scale: As Noted	
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Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

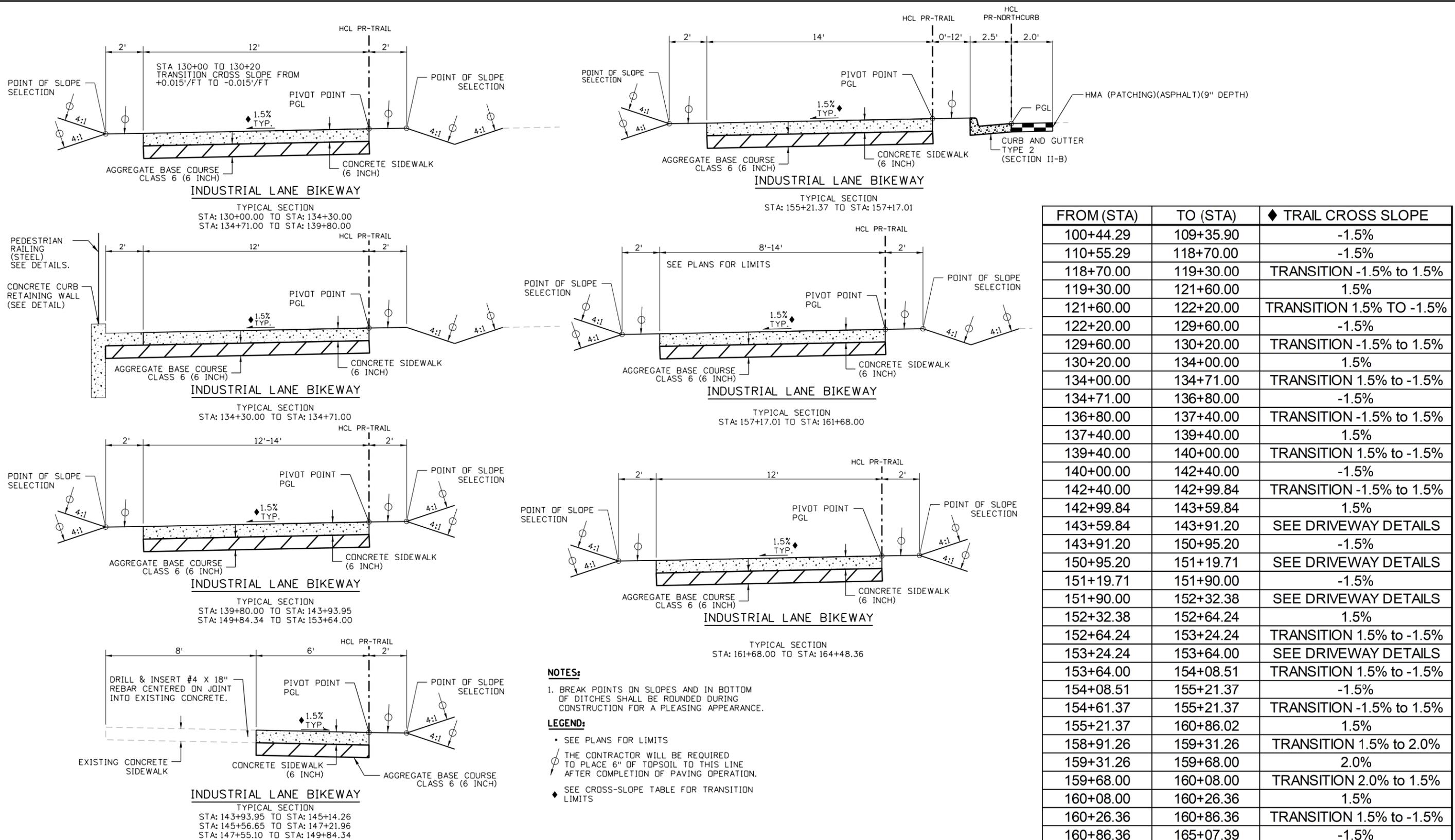
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed
No Revisions:
Revised:
Void:

<b>INDUSTRIAL LANE BIKEWAY PHASE 2 TYPICAL SECTIONS</b>			
Designer:	Z. CRIMMINS	Checker:	D. DYER
Detailer:	Z. CRIMMINS		
Sheet Subset:	TYPICALS	Subset Sheets:	01 of 02

Project No./Code	STU M145-013
Sheet Number	6

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FROM (STA)	TO (STA)	◆ TRAIL CROSS SLOPE
100+44.29	109+35.90	-1.5%
110+55.29	118+70.00	-1.5%
118+70.00	119+30.00	TRANSITION -1.5% to 1.5%
119+30.00	121+60.00	1.5%
121+60.00	122+20.00	TRANSITION 1.5% TO -1.5%
122+20.00	129+60.00	-1.5%
129+60.00	130+20.00	TRANSITION -1.5% to 1.5%
130+20.00	134+00.00	1.5%
134+00.00	134+71.00	TRANSITION 1.5% to -1.5%
134+71.00	136+80.00	-1.5%
136+80.00	137+40.00	TRANSITION -1.5% to 1.5%
137+40.00	139+40.00	1.5%
139+40.00	140+00.00	TRANSITION 1.5% to -1.5%
140+00.00	142+40.00	-1.5%
142+40.00	142+99.84	TRANSITION -1.5% to 1.5%
142+99.84	143+59.84	1.5%
143+59.84	143+91.20	SEE DRIVEWAY DETAILS
143+91.20	150+95.20	-1.5%
150+95.20	151+19.71	SEE DRIVEWAY DETAILS
151+19.71	151+90.00	-1.5%
151+90.00	152+32.38	SEE DRIVEWAY DETAILS
152+32.38	152+64.24	1.5%
152+64.24	153+24.24	TRANSITION 1.5% to -1.5%
153+24.24	153+64.00	SEE DRIVEWAY DETAILS
153+64.00	154+08.51	TRANSITION 1.5% to -1.5%
154+08.51	155+21.37	-1.5%
154+61.37	155+21.37	TRANSITION -1.5% to 1.5%
155+21.37	160+86.02	1.5%
158+91.26	159+31.26	TRANSITION 1.5% to 2.0%
159+31.26	159+68.00	2.0%
159+68.00	160+08.00	TRANSITION 2.0% to 1.5%
160+08.00	160+26.36	1.5%
160+26.36	160+86.36	TRANSITION 1.5% to -1.5%
160+86.36	165+07.39	-1.5%

**NOTES:**  
 1. BREAK POINTS ON SLOPES AND IN BOTTOM OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.

**LEGEND:**  
 • SEE PLANS FOR LIMITS  
 ○ THE CONTRACTOR WILL BE REQUIRED TO PLACE 6" OF TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.  
 ◆ SEE CROSS-SLOPE TABLE FOR TRANSITION LIMITS

All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2024  
 File Name: 30322\_Typical Sections.dgn  
 Horiz. Scale: 1"=10' Vert. Scale: As Noted  
 Unit Information  
 Stanley Consultants inc. 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

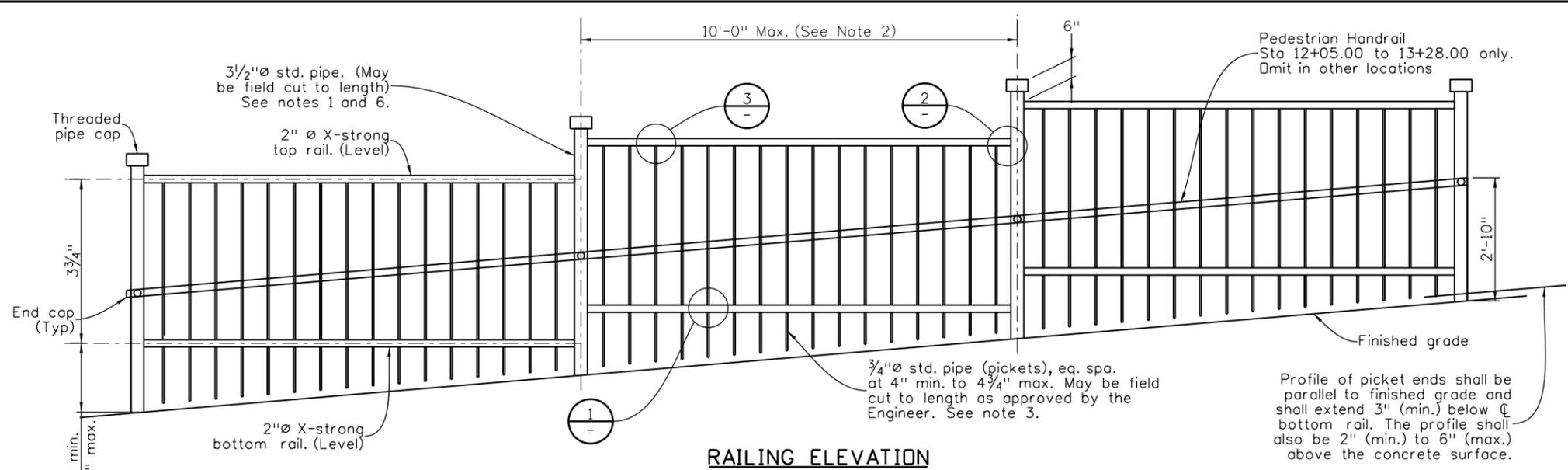
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 Revised:  
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INDUSTRIAL LANE BIKEWAY PHASE 2  
 TYPICAL SECTIONS

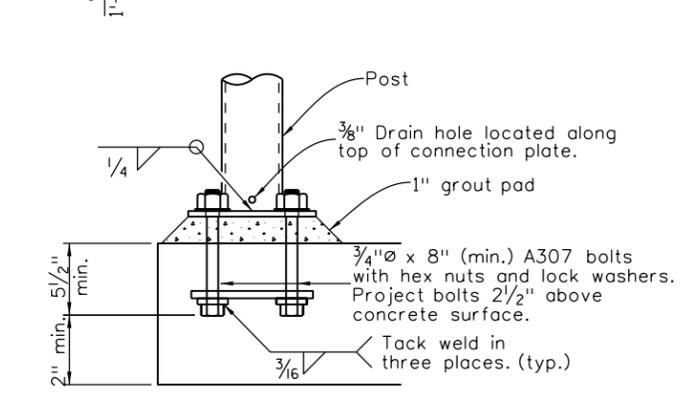
Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: TYPICALS  
 Subset Sheets: 02 of 02

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **7**

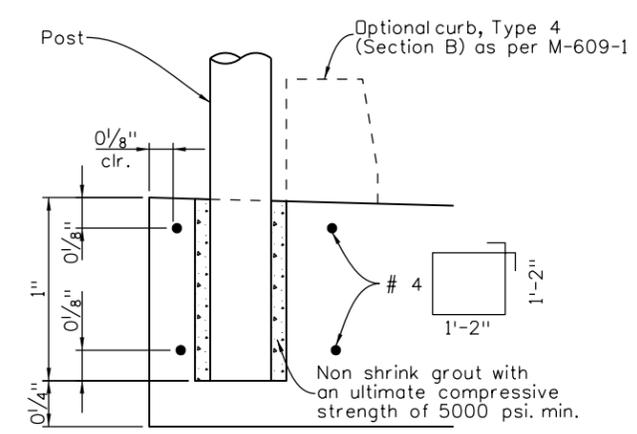
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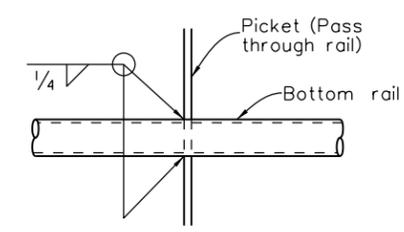
- NOTES:**
- Posts may be field fabricated as approved by the Engineer. No detail changes will be allowed to field fabricate posts. Posts with misaligned pins will be rejected.
  - All railing panels shall be shop fabricated.
  - Seal picket ends with threaded pipe caps when not installed next to a curb. Field cut ends, without pipe caps, shall be ground smooth to preclude personal injury to the general public.
  - All pipe shall meet the requirements in ASTM A53 for Grade B steel and all plates and bars shall meet the requirements in AASHTO M270 for Grade 36 steel.
  - Posts shall be installed in a properly reinforced slab.
  - Holes in rails, for pickets, and holes in posts, for pins, shall be drilled.
  - Railing components shall be galvanized as per the standard specifications in accordance with ASTM A123. Railing shall be powder coated after galvanizing as per project special provisions.
  - Railing will be paid for, by the linear foot, as Item 514 Pedestrian Railing (Steel).
  - Railing accommodates pedestrians and bicycles in accordance with the 9th edition of the AASHTO Standard Specifications For Highway Bridges.
  - Powder Coating shall be FederalColor 10055, dark brown.



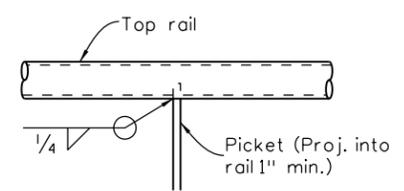
**ELEVATION**



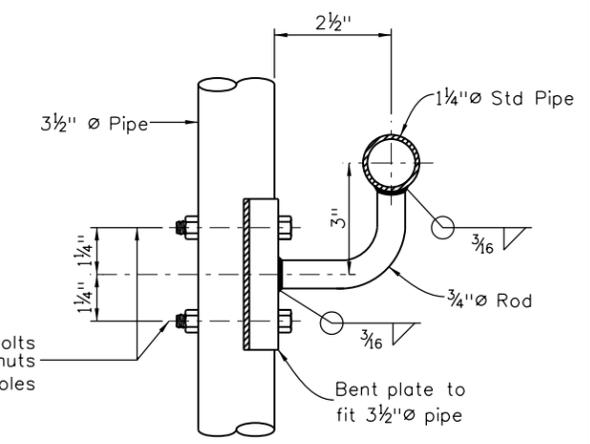
**ELEVATION**



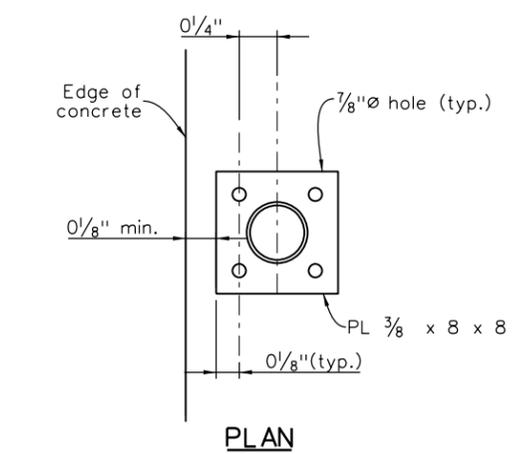
**DETAIL 1**  
(See note 7)



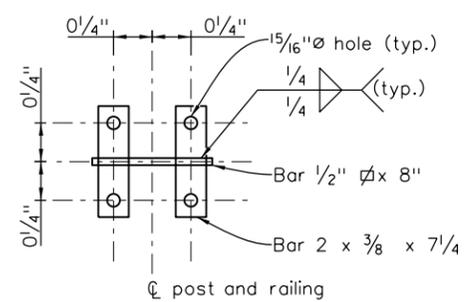
**DETAIL 3**  
(See note 7)



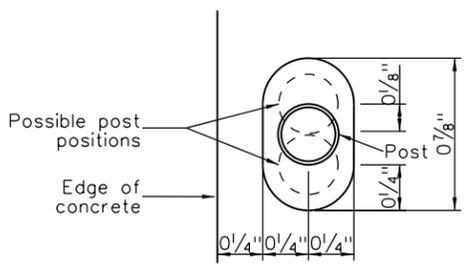
**DETAIL 2**  
(See note 7)



**PLAN**



**ANCHORAGE DETAIL**



**PLAN**  
**POCKET CONNECTION**

**SUMMARY OF APPROX. QUANTITIES**

(For Information Only)

ITEM No.	DESCRIPTION	Unit	WITH BASE PL	WITH POST POCKET
509	Structural Steel (Galvanized)	lb./ft.	26.5	25.8
602	Reinforcing Steel (Epoxy Coated)	lb./ft.		0.7

Galvanizing is not required for painted railing.

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Print Date: 8/23/2024  
 File Name: 30322\_Typical Sections.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

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 No Revisions:  
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 PEDESTRIAN RAIL DETAILS**

Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: RAILING  
 Subset Sheets: 01 of 01

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **8**

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BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.		
			201-00000	CLEARING AND GRUBBING	LS	1								1	
			202-00010	REMOVAL OF TREES	EACH	2								2	
			202-00027	REMOVAL OF RIPRAP	SY	24								24	
			202-00035	REMOVAL OF PIPE	LF	249								249	
			202-00037	REMOVAL OF END SECTION	EACH	12								12	
			202-00195	REMOVAL OF MEDIAN COVER	SY	77								77	
			202-00200	REMOVAL OF SIDEWALK	SY	97								97	
			202-00202	REMOVAL OF GUTTER	LF	99								99	
			202-00203	REMOVAL OF CURB AND GUTTER	LF	1,326								1,326	
			202-00206	REMOVAL OF CONCRETE CURB RAMP	SY	62								62	
			202-00210	REMOVAL OF CONCRETE PAVEMENT	SY	499								499	
			202-00220	REMOVAL OF ASPHALT MAT	SY	734								734	
			202-00240	REMOVAL OF ASPHALT MAT (PLANING)	SY	114								114	
			202-04005	CLEAN VALVE BOX	EACH	7								7	
			203-00010	UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)	CY	3,105								3,105	
			203-01597	POTHOLING	HOOR	40								40	
			208-00020	SILT FENCE	LF	7,339								7,339	
			208-00035	AGGREGATE BAG	LF	589								589	
			208-00041	ROCK CHECK DAM	EACH	43								43	
			208-00045	CONCRETE WASHOUT STRUCTURE	EACH	2								2	
			208-00053	STORM DRAIN INLET PROTECTION (TYPE I) (84 INCH)	EACH	7								7	
			208-00070	VEHICLE TRACKING PAD	EACH	2								2	
			210-00001	RESET STRUCTURE	EACH	1								1	
			210-00810	RESET GROUND SIGN	EACH	2								2	
			210-00815	RESET SIGN PANEL	EACH	1								1	
			210-01000	RESET FENCE	EACH	108								108	
			210-01011	RESET GATE	EACH	1								1	
			210-01720	RESET AIR VENT	EACH	2								2	
			210-04010	ADJUST MANHOLE	EACH	5								5	
			210-04050	ADJUST VALVE BOX	EACH	7								7	
			212-00707	SEEDING (NATIVE) HYDRAULIC	Acre	1.74								1.74	
			213-00003	MULCHING (WEED FREE)	Acre	1.74								1.74	
			213-00008	MULCHING (WOOD CHIP)	CF	782								782	
			213-00061	MULCH TACKIFIER	LB	350								350	
			213-00067	ROCK MULCH (WEED FREE)	SF	6,005								6,005	
			213-00470	METAL LANDSCAPE BORDER (1/4x5 INCH)	LF	284								284	
			214-00508	EVERGREEN TREE (8FOOT) (BALL AND BURLAP)	EACH	2								2	
			214-00650	EVERGREEN SHRUB (5 GALLON CONTAINER)	EACH	8								8	
			216-00201	SOIL RETENTION BLANKET (STRAW/COCONUT)(BIODEGRADABLE CLASS 1)	SY	7,422								7,422	

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	Horiz. Scale: _____ Vert. Scale: As Noted		Date: _____ Comments: _____ Init.: _____	No Revisions:				23593			
	Unit Information  8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806			Revised:	Designer: Z. CRIMMINS Detailer: Z. CRIMMINS			Checker: D. DYER			
				Void:	Sheet Subset: SDAQ			Subset Sheets: 01 of 03	Sheet Number <b>9</b>		

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			217-00020	HERBICIDE TREATMENT	HR	40								40	
			240-00000	WILDLIFE BIOLOGIST	HR	24								24	
			240-00100	PRAIRIE DOG MANAGEMENT	LS	1								1	
			304-06000	AGGREGATE BASE COURSE (CLASS 6)	TON	3,144								3,144	
			403-00720	HOT MIX ASPHALT (PATCHING) (ASPHALT)	TON	1,026								1,026	
			412-00600	CONCRETE PAVEMENT (6 INCH)	SY	541								541	
			420-00112	GEOTEXTILE (DRAINAGE) (CLASS 1)	SY	149								149	
			506-00209	RIPRAP (9 INCH)	CY	17								17	
			506-00409	SOIL RIPRAP (9 INCH)	CY	22								22	
			514-00200	PEDESTRIAN RAILING (STEEL)	LF	1,078								1,078	
			601-01000	CONCRETE CLASS B	CY	179								179	
			603-01155	15 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	41								41	
			603-01185	18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	649								649	
			603-02185	23"x14" REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	99								99	
			603-05015	15 INCH REINFORCED CONCRETE END SECTION	EACH	2								2	
			603-05018	18 INCH REINFORCED CONCRETE END SECTION	EACH	4								4	
			603-05118	23"x14" REINFORCED CONCRETE END SECTION	EACH	4								4	
			604-13005	INLET TYPE 13 (5 FOOT)	EACH	1								1	
			604-19105	INLET TYPE R L5 (5 FOOT)	EACH	1								1	
			604-30010	MANHOLE SLAB BASE (10 FOOT)	EACH	2								2	
			607-11525	FENCE (PLASTIC)	LF	3,401								3,401	
			608-00006	CONCRETE SIDEWALK (6 INCH)	SY	9,366								9,366	
			608-00010	CONCRETE CURB RAMP	SY	329								329	
			608-10000	SIDEWALK DRAIN	LF	143								143	
			609-20000	CURB TYPE 2 (SECTION B) (SPECIAL)	LF	138								138	
			609-21010	CURB AND GUTTER TYPE 2 (SECTION I-B)	LF	382								382	
			609-21020	CURB AND GUTTER TYPE 2 (SECTION II-B)	LF	1,706								1,706	
			609-24003	GUTTER TYPE 2 (3 FOOT)	LF	53								53	
			609-24006	GUTTER TYPE 2 (6 FOOT)	LF	52								52	
			610-00020	MEDIAN COVER MATERIAL (PATTERNED CONCRETE)	SF	890								890	
			614-00011	SIGN PANEL (CLASS I)	SF	17								17	
			614-00012	SIGN PANEL (CLASS II)	SF	27								27	
			614-00214	STEEL SIGNPOST (1.75X1.75 INCH TUBING)	LF	108								108	
			620-00020	SANITARY FACILITY	EACH	1								1	
			621-00450	DETOUR PAVEMENT	SY	50								50	
			623-09900	SPRINKLER SYSTEM	LS	1								1	
			625-00000	CONSTRUCTION SURVEYING	LS	1								1	
			626-00000	MOBILIZATION	LS	1								1	
			627-00011	PAVEMENT MARKING PAINT (WATERBORNE)	GAL	5								5	

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	File Name: 30322_SDA002.dgn	Date:	Comments	Init.			No Revisions:		SUMMARY OF APPROXIMATE QUANTITIES				STU M145-013			
	Horiz. Scale:      Vert. Scale: As Noted						Revised:		Designer: Z. CRIMMINS		Checker: D. DYER		23593			
	Unit Information						Void:		Detailer: Z. CRIMMINS		Sheet Subset: SDAQ		Subset Sheets: 02 of 03		Sheet Number <b>10</b>	
	 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806						CITY ENGINEER (OR DESIGNEE) _____ DATE _____									

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			627-00070	PREFORMED THERMOPLASTIC PAVEMENT MARKING	SF	1,144								1,144	
			629-01065	SURVEY MONUMENTATION (TYPE 5S)	EACH	3								3	
			630-00000	FLAGGING	HR	1,280								1,280	
			630-00007	TRAFFIC CONTROL INSPECTION	DAY	50								50	
			630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	120								120	
			630-80001	FLASHING BEACON (PORTABLE)	EACH	6								6	
			630-80335	BARRICADE (TYPE 3 M-A) (TEMPORARY)	EACH	6								6	
			630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	33								33	
			630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	10								10	
			630-80344	CONSTRUCTION TRAFFIC SIGN (SPECIAL)	SF	25								25	
			630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	3								3	
			630-80360	DRUM CHANNELIZING DEVICE	EACH	235								235	
			630-80380	TRAFFIC CONE	EACH	100								100	
				FORCE ACCOUNTS											
			700-70010	F/A MINOR CONTRACT REVISIONS	F/A	F/A								F/A	
			700-70016	F/A FUEL COST ADJUSTMENT	F/A	F/A								F/A	
			700-70023	F/A ON-THE-JOB TRAINEE	F/A	F/A								F/A	
			700-70310	F/A LANDSCAPING	F/A	F/A								F/A	
			700-70380	F/A EROSION CONTROL	F/A	F/A								F/A	

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	Horiz. Scale: _____ Vert. Scale: As Noted		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 25%;">Init.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Date:	Comments			Init.										No Revisions:	Designer: Z. CRIMMINS    Checker: D. DYER			23593
	Date:		Comments	Init.																		
Unit Information  8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Revised:	Detailer: Z. CRIMMINS			Sheet Number <b>11</b>																	
Void:	Sheet Subset: SOAQ    Subset Sheets: 03 of 03																					

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SUMMARY OF EARTHWORK QUANTITIES	
<b>PAY QUANTITIES:</b>	
<b>UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)</b>	<b>CUBIC YARDS</b>
REGULAR UNCLASSIFIED EXCAVATION QUANTITY	2,957
ADDITIONAL UNCLASSIFIED EXCAVATION QUANTITY FOR CUT SLOPE TREATMENT	148
<b>TOTAL QUANTITY FOR UNCLASSIFIED EXCAVATION MATERIAL (COMPLETE IN PLACE) PAY QUANTITY</b>	<b>3,105</b>
<b>FOR INFORMATION ONLY:</b>	
<b>EMBANKMENT MATERIAL (COMPLETE IN PLACE)</b>	<b>CUBIC YARDS</b>
REGULAR EMBANKMENT QUANTITY (SEE NOTE 1)	1,833
<b>TOTAL FOR EMBANKMENT MATERIAL (COMPLETE IN PLACE)</b>	<b>1,833</b>
<b>FOR INFORMATION ONLY - EARTHWORK BALANCE</b>	
<b>UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE) (CUT)</b>	
TOTAL UNCLASSIFIED EXCAVATION	3,105
TOTAL MATERIAL AVAILABLE FROM EXCAVATION	3,105
<b>EMBANKMENT MATERIAL (COMPLETE IN PLACE) (FILL)</b>	
EMBANKMENT MATERIAL	1,833
TOTAL MATERIAL NEEDED FOR EMBANKMENTS	1,833
<b>EMBANKMENT MATERIAL EXPANDED</b>	
TOTAL EMBANKMENT MULTIPLIED BY COMPACTION FACTOR (EMBANKMENT COMPACTION FACTOR= 1.15)	2,108
<b>BALANCE</b>	
<b>TOTAL EXCESS MATERIAL</b>	
TOTAL MATERIAL AVAILABLE FROM EXCAVATIONS LESS TOTAL MATERIAL NEEDED FOR EMBANKMENT	997

**Notes:**

1. THIS VALUE DOES NOT INCLUDE ITEMS PAID FOR SEPARATELY I.E. BASECOURSE, HARDSCAPE, TOPSOIL ETC.
2. OVERBUILD TO MEET THE EARTHWORK SPECIFICATIONS MAY BE REQUIRED BUT IS NOT INCLUDED OR CALCULATED IN THIS TABULATION.
3. REMOVAL OF EXISTING TOPSOIL IS PAID FOR AS CLEARING AND GRUBBING.
4. PROOF ROLLING IS INCLUDED IN THE COST OF THE EARTHWORK.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/16/2024 File Name: 30322_EarthworkTab.dgn	00 00 00 00	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  _____ DATE _____	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2 EARTHWORK TABULATION		Project No./Code STU M145-013
	Horiz. Scale:                      Vert. Scale: As Noted		Date:                      Comments                      Init.	No Revisions:	Designer: C. ATWATER      Checker:			23593			
	Unit Information  8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806		Revised:	Detailer: C. ATWATER	Sheet Subset: EW TAB      Subset Sheets: 01 of 01			Sheet Number <b>12</b>			
	Void:		_____	_____	_____			_____			

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LOCATION	SIDE	HCL	202-00010		202-00195		202-00200		202-00202		202-00203		202-00206		202-00210		202-00220		202-00240		210-00001		210-01000		210-01010	
			REMOVAL OF TREES		REMOVAL OF MEDIAN COVER		REMOVAL OF SIDEWALK		REMOVAL OF GUTTER		REMOVAL OF CURB AND GUTTER		REMOVAL OF CONCRETE CURB RAMP		REMOVAL OF CONCRETE PAVEMENT		REMOVAL OF ASPHALT MAT		REMOVAL OF ASPHALT MAT (PLANING)		RESET STRUCTURE		RESET FENCE		RESET GATE	
			EACH		SY		SY		LF		LF		SY		SY		SY		SY		EACH		LF		EACH	
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
100+12.04	100+48.90	RT	PR-TRAIL									38														
000+12.07	006+99.54	RT	PR-NORTHCURB									693														
100+13.44	100+46.14	RT	PR-TRAIL					33																		
100+12.01	100+48.72	RT	PR-TRAIL									37														
100+12.03	100+48.82	RT	PR-TRAIL									37														
100+38.82	100+38.82	RT	PR-TRAIL	1																						
002+67.24	006+56.91	RT	PR-NORTHCURB														250									
000+00.00	002+01.92	RT	PR-MEDIANCURB									203														
000+32.11	001+68.38	RT	PR-MEDIANCURB			53											22									
106+23.80	106+73.63	RT	PR-TRAIL									28														
106+27.81	106+59.80	RT	PR-TRAIL											12												
106+79.13	107+03.62	RT	PR-TRAIL									26														
106+80.43	106+99.83	RT	PR-TRAIL									20														
107+05.86	107+05.86	RT	PR-TRAIL			24																				
107+06.14	107+06.14	RT	PR-TRAIL									96														
107+05.86	107+05.86	RT	PR-TRAIL											15												
109+12.25	109+71.09	LT/RT	PR-TRAIL									64														
110+41.00	110+60.53	RT	PR-TRAIL						45																	
109+33.23	109+57.66	LT/RT	PR-TRAIL						54																	
109+56.72	110+41.52	LT/RT	PR-TRAIL																	114						
110+23.29	110+60.70	LT/RT	PR-TRAIL									44														
112+44.28	112+54.28	RT	PR-TRAIL									10														
139+67.91	139+67.91	RT	PR-TRAIL	1																						
142+48.78	143+93.58	LT/RT	PR-TRAIL														150				1		108		1	
145+14.25	145+21.30	LT	PR-TRAIL											8												
145+21.30	145+21.15	LT/RT	PR-TRAIL									7														
145+49.25	145+56.65	LT	PR-TRAIL											9												
145+49.25	145+49.30	LT/RT	PR-TRAIL									8														
147+22.15	147+29.70	LT	PR-TRAIL											9												
147+29.70	147+29.69	LT/RT	PR-TRAIL									8														
147+47.74	147+55.10	LT	PR-TRAIL											9												
147+47.74	147+47.73	LT/RT	PR-TRAIL									7														
149+84.34	150+55.58	LT	PR-TRAIL					64																		
151+02.54	151+21.66	LT/RT	PR-TRAIL													57										
150+99.35	151+29.07	RT	PR-TRAIL														32									
151+93.04	152+29.72	LT/RT	PR-TRAIL													118										
151+91.32	152+32.98	RT	PR-TRAIL														13									
153+25.83	155+02.82	LT/RT	PR-TRAIL														186									
154+08.04	157+17.01	RT	PR-TRAIL														80									
155+02.26	155+76.80	LT/RT	PR-TRAIL													185										
159+27.87	159+73.28	LT/RT	PR-TRAIL													139										
TOTAL				2		77		97		99		1326		62		499		734		114		1		108		1

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code	
	File Name: REMOVAL_TAB.dgn	Date:	Comments	Init.			No Revisions:	REMOVAL TABULATION		STU M145-013	
	Horiz. Scale:      Vert. Scale: As Noted						Revised:	Designer: Z. CRIMMINS	Checker: D. DYER	23593	
	Unit Information						Void:	Detailer: Z. CRIMMINS		Sheet Number 13	
 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806							Sheet Subset: TABS	Subset Sheets: 01 of 01			





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Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials



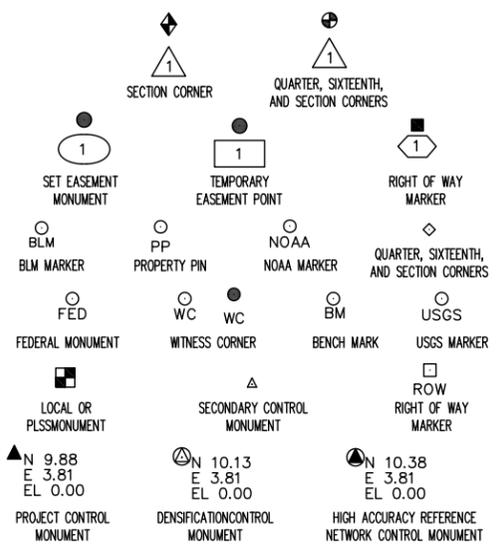
Project Control Diagram			
Title Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23593	09-27-23	3.01 to 3.06	3.01

# CITY AND COUNTY OF BROOMFIELD DEPARTMENT OF PUBLIC WORKS

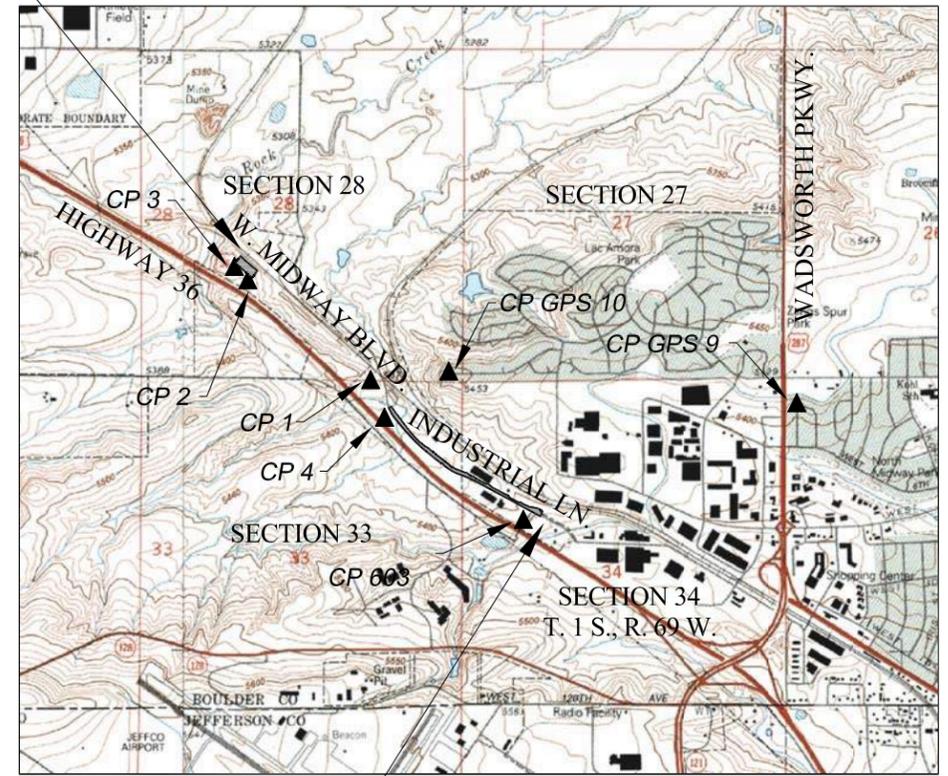
SHEET NO.	INDEX OF SHEETS
3.01-3.01	(1) Title Sheet
3.02-3.04	(3) Coordinate Tables
3.05-3.06	(2) Plan Sheet
(6) Total Sheets	

## PROJECT CONTROL DIAGRAM

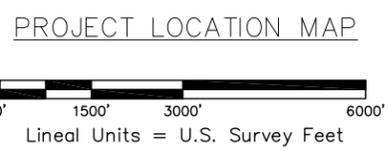
Industrial Lane Bikeway Phase 2  
 Sections 28, 33 and 34  
 Township 1 South, Range 69 West of the 6th Principal Meridian  
 City and County of Broomfield



Begin Industrial Lane  
 HCL Station: 100+00



End Industrial Lane  
 HCL Station: 165+00



Note: For a complete listing of symbolology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.



CP - Control Point Monuments set by DLS. They are a 1 1/2" dia. aluminum monument cap (as shown) on a 24" x 1/2" dia. rebar.

General Notes:

1. This Project Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for the City and County of Broomfield purposes.
2. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with the City that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N00°04'00"E from the Southwest Corner of Section 28, Township 1 South, Range 69 West of the 6th P.M. to the West Quarter Corner of Section 28, Township 1 South, Range 69 West of the 6th P.M.. The monument at the Southwest Corner is a 2 1/2" aluminum cap marked PLS 23529 2000 on a #6 rebar, the monument at the West Quarter Corner is a 2 1/2" aluminum cap marked PLS 27936 1998 on a #6 rebar, marked appropriately for their position. The survey data was obtained from a Global Positioning System (GPS) survey based on a modified ground coordinate system, US State Plane 1983, Colorado North Zone 501.

Basis of Elevations: Project elevations are GPS derived and based on the City and County of Broomfield Vertical Datum and originates from Broomfield CP GPS No. 10, a standard Broomfield Survey Disc, with a NAVD88 elevation of 5448.484 ft. The station is located in The City and County of Broomfield, in the Southeast 1/4 of Section 28, T1S, R69W, of the 6th Principal Meridian. To reach the station from the intersection of Midway Blvd. and US Highway 287 in Broomfield, travel West to the intersection of Midway Blvd. and Hoyt St., then North to the intersection of Hoyt St. and W. 10th Ave. Pl., then West to the end of the street. The mark is 29.0' West of lot corner and 116' North of fence. The mark is a GPS cap set in concrete in the ground with an orange witness post approx. 1' to the South.

COORDINATE DATUM: Project coordinates are based on a modified ground coordinate system, US State Plane 1983, Colorado North Zone 501 referenced to the Broomfield County Control Network. The Project Mapping Projection shown on this Project Control Diagram was calculated to fit the control monuments and coordinates. The combined elevation/scale factor used to modify the coordinates from the Colorado North Zone 501 to project coordinates is 1.0002827569. The resulting project coordinates are truncated by 0.000 ft in the Northing and 0.000 ft in the Easting after converting from Colorado North Zone 501 to project coordinates. The CHARN is based on the NAD83(92) datum. The project height is 5335.40 feet.

Project Coordinates Northing US Survey Feet = (Colorado North Zone 501 Coordinate Northing \* 1.0002827569). Project Coordinates Easting US Survey Feet = (Colorado North Zone 501 Coordinate Easting \* 1.0002827569).

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, Robert Daley, a professional land surveyor licensed in the State of Colorado, do hereby state to the City and County of Broomfield this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 35597



CITY AND COUNTY OF  
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Ph: 303.438.6389

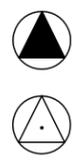
Sheet Revisions		
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Date	Description	Initials

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Date	Description	Initials



Project Control Diagram			
Coordinate Tables			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23593	9-27-23	3.01 to 3.06	3.02



**CHARN GEODETIC COORDINATE SUMMARY TABLE**

Point No.	Geodetic Coordinates NAD-83 (92) (CHARN)		Elip Height (NAVD88) (ft)	Ortho Height (ft)	Mapping Angle	Grid Scale Factor	NAD 83 (92) Zone 501		Project Coordinates		Description
	Latitude (N)	Longitude (W)					SP Northing (ft)	SP Easting (ft)	Northing (ft)	Easting (ft)	
9	N39°55'30.44106"	W105°05'24.74296"	5335.54	5390.83	0°15'53.2"	0.999972902	1215836.576	3114930.796	1216180.360	3115811.570	3 1/2" Brass Cap Broomfield CP GPS NO. 9
10	N39°55'44.11528"	W105°06'38.75890"	5393.55	5448.48	0°15'05.4"	0.999972530	1217194.231	3109158.504	1217538.399	3110037.645	3 1/2" Brass Cap Broomfield CP GPS NO. 10
603	N39°55'21.58965"	W105°06'19.24061"	5356.21	5411.20	0°15'18.0"	0.999973146	1214921.683	3110689.138	1215265.209	3111568.713	3 1/4" Brass Cap RTD #603 PLS 24942

\$DATE\$ \$PLOT\_INFO\$







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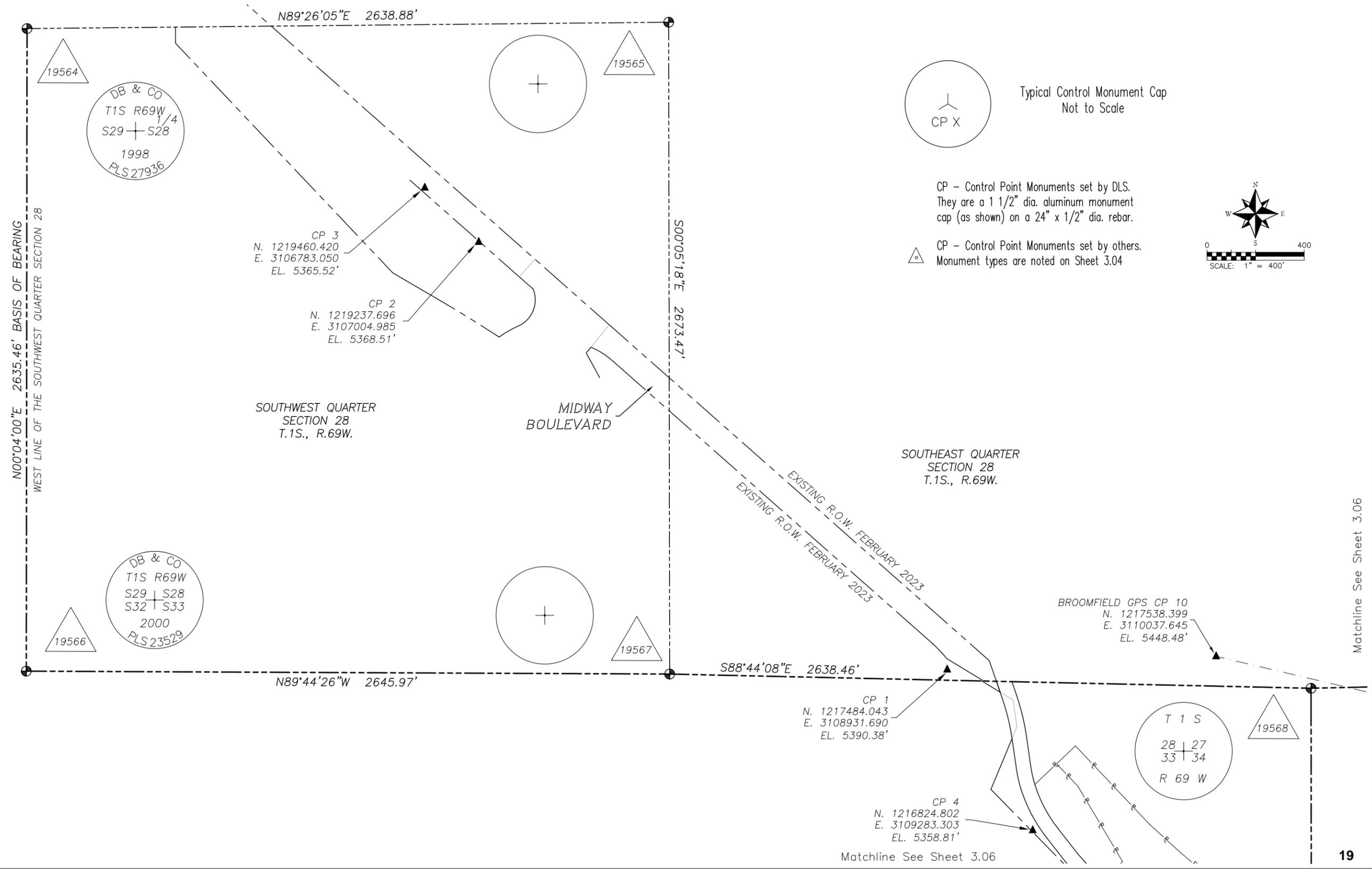
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Date	Description	Initials



Project Control Diagram			
Plan Sheet			
Project Number: STU M145-013		Project Location: Industrial Lane Bikeway Phase 2	
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23593	9-27-23	3.01 to 3.06	3.05

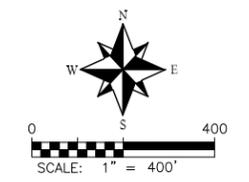


Typical Control Monument Cap  
Not to Scale

CP X

CP - Control Point Monuments set by DLS.  
They are a 1 1/2" dia. aluminum monument cap (as shown) on a 24" x 1/2" dia. rebar.

△ CP - Control Point Monuments set by others.  
Monument types are noted on Sheet 3.04



\$DATE\$ \$PLOT\_INFO\$

Matchline See Sheet 3.06

Matchline See Sheet 3.06



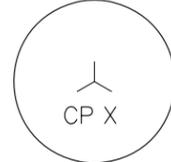
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Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials



Project Control Diagram			
Plan Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
City and County of Broomfield, Colorado			
Project Code	Last Mod. Date	Subset	Sheet No.
23593	9-27-23	3.01 to 3.06	3.06

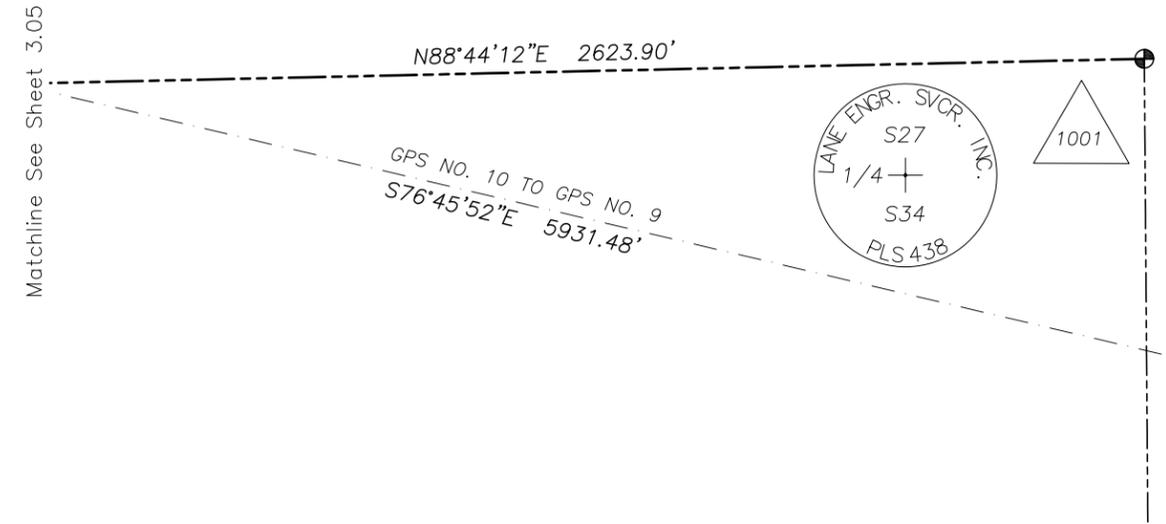
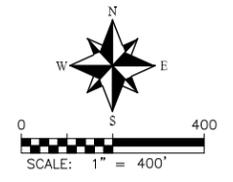
(PER AUGUST 30, 2012  
MONUMENT RECORD)



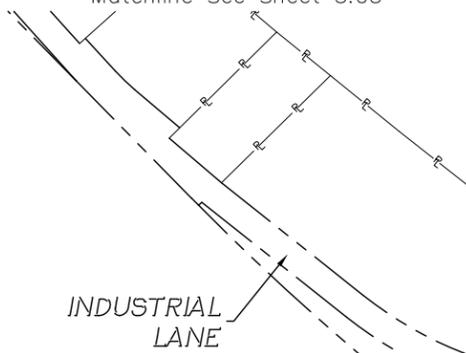
Typical Control Monument Cap  
Not to Scale

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They are a 1 1/2" dia. aluminum monument  
cap (as shown) on a 24" x 1/2" dia. rebar.

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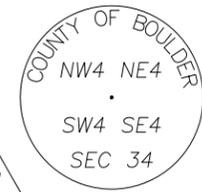
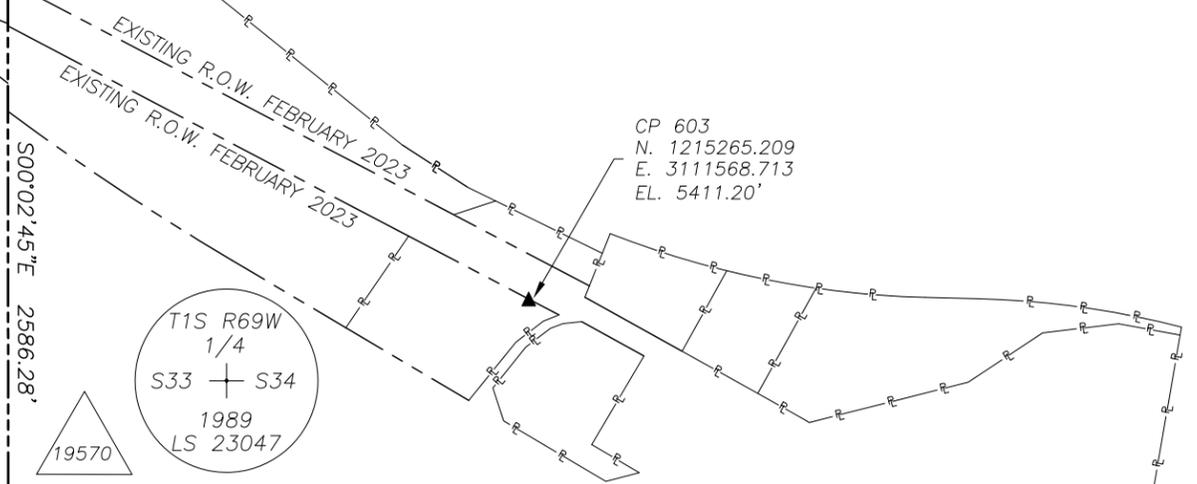


Matchline See Sheet 3.05

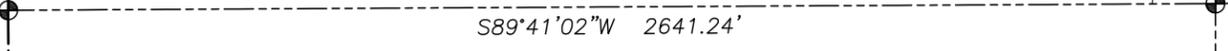


NORTHWEST QUARTER  
SECTION 34  
T.1S., R.69W.

BROOMFIELD GPS CP 9  
N. 1216180.360  
E. 3115811.570  
EL. 5390.83'



(PER AUGUST 16, 2004  
MONUMENT RECORD)



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**TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:**

- 3D Design Modeling Electronic Files \_\_\_\_\_
- Horizontal Control \_\_\_\_\_ Plans
- Vertical Control \_\_\_\_\_ Plans
- Roadway Alignment \_\_\_\_\_ Plans
- Original Terrain Data \_\_\_\_\_ Survey Files
- Other: \_\_\_\_\_

\* Specify the information format, ie., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

**TYPE OF PROJECT**

- Landscaping
- Signalization
- Safety Improvement
- Asphalt Overlay
- Concrete Overlay
- Minor Widening
- Major Reconstruction
- New Roadway Construction
- Bridge Replacement
- Bridge Widening
- New Bridge
- Other: Bikeway

SURVEY WORK TO BE PERFORMED BY OTHERS: \_\_\_\_\_

**WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:**

- A complete passing Base Line report (completed within 6 months prior to the start of the project)
- An instrument calibration Certification (completed within 6 months prior to the start of the project)
- Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
- Verification and Maintenance of Horizontal and Vertical Control
- Verify or Determine existing grades and alignments
- Verify or Determine existing topography
- Clearing and Grubbing Limits (Section 201)
- Removal Limits (Section 202)
- Reset Items (Section 210)
- Excavation and Embankment (Section 203)

- Excavation
  - Unclassified
  - Stripping
  - Muck
  - Rock
  - Borrow
  - Other: \_\_\_\_\_
  - Potholing

- Embankment
- Site Grading
- Erosion Control (Perm)
- Other: \_\_\_\_\_
- As Staked Earthwork Quantities (See General Notes)

- Landscaping
  - Top Soil (Section 207)
  - Seeding (Section 212)
  - Mulching (Section 213)
  - Planting (Section 214)
  - Herbicide (Section 217)
  - Other: \_\_\_\_\_

- Erosion Control (Section 208)
  - Seeding (Temp)
  - Silt Fence
  - Erosion Bales
  - Erosion Logs
  - Riprap (Temp)
  - Other: \_\_\_\_\_

- Roadway Bases
  - Untreated Subgrade
  - Treated Subgrade
  - Aggregate Base Course (Section 304)
  - Reconditioning
  - PMBB - Plant Mix Bituminous Base
  - Other: \_\_\_\_\_

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	Y	N	Y	50
	-	-	-	-
Embankment	-	-	-	-
	-	-	-	-

Embankment	-	-	-	-
	-	-	-	-

	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
Roadway Bases	-	-	-	-
	-	-	-	-

- Pavements
  - HMA - Hot Mix Asphalt (Section 403)
  - Concrete (Section 412)
  - Heating & Scarifying Treatment
  - Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
  - Seal Coat or Chip Seal (Section 409)
  - Other: Bikeway

	Grid (Y/N)	Special Interval	Special Offset
Pavements	-	-	-
	-	-	-

- Roadway Elements
  - Curb and Gutter (Section 609)
  - Drop inlets - alignment and grades (Section 604)
  - Retaining Walls
  - Guard Rail (Section 606)
  - Sidewalk (Section 608)
  - Overlay Stationing
  - Other: \_\_\_\_\_

	Tangent Interval	Curve Interval	Special Offset
Curb & Gutter	-	-	-
	-	-	-

- Riprap (Perm) (Section 506)
- Slope and Ditch Paving (Section 507)

	Left Interval	Center Interval	Right Interval
Stationing	-	-	-
	-	-	-

- Minor Structures
  - Structure Excavation limits (Section 206)
  - Culverts (Section 603)
  - Culverts w/ Headwalls and Wingwalls (Section 601)
  - Concrete Box Culverts w/ Headwalls and Wingwalls
  - Pipes (Section 603)
    - Sanitary Sewer
    - Storm Sewer
    - Water
    - Irrigation
    - Miscellaneous
  - Manholes (Section 604)
  - Inlets (Section 604)
  - Permanent Water Quality BMP (Section 208)
  - Other: \_\_\_\_\_

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
  - Structure Excavation limits (Section 206)
  - Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
  - Piling locations and cut off elevations (Section 502)
  - Caisson locations and elevations (Section 503)
  - Footing locations, alignment, and elevations
  - Abutment/Pier locations, alignment, and elevations
  - Wingwall skew angles/offsets
  - Structural concrete form locations
  - Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
  - Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
  - Deck grades at Girder 10th or "n" th point locations and elevations
  - Slope and Ditch Paving (Section 507)
  - Other: \_\_\_\_\_

- Fencing (Section 607)
  - Temporary
  - Permanent
  - Sound Barrier
  - Other: \_\_\_\_\_

- Delineators (Section 612)
  - Temporary
  - Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
  - Signal pole locations and elevations
  - Light pole locations and elevations
  - Sign locations
  - Field verify sign post locations, elevations, and lengths before fabrication.
  - Other: \_\_\_\_\_

- Pavement Marking (Section 627)
  - Striping (Temp)
  - Striping (Perm)
  - Symbols
  - Other: \_\_\_\_\_
- Temporary Lighting and Construction Traffic Control Devices (Section 630)
  - Signal pole locations and elevations (Temp)
  - Light pole locations and elevations (Temp)
  - Sign Locations (Temp)
  - Other: \_\_\_\_\_
- All Easements (Temp Staking by P.L.S. Only)
- Right of Way (Temp Staking by P.L.S. Only)

**WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:**

- Monumentation (Section 629)
  - Control
  - Right of Way
  - Land corners, Aliquot corners
  - Easements
  - Reference the specified existing monuments: \*\* \_\_\_\_\_
  - Replace the specified existing monuments: \*\* \_\_\_\_\_
  - Locate monuments. It is estimated \_\_\_\_\_ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

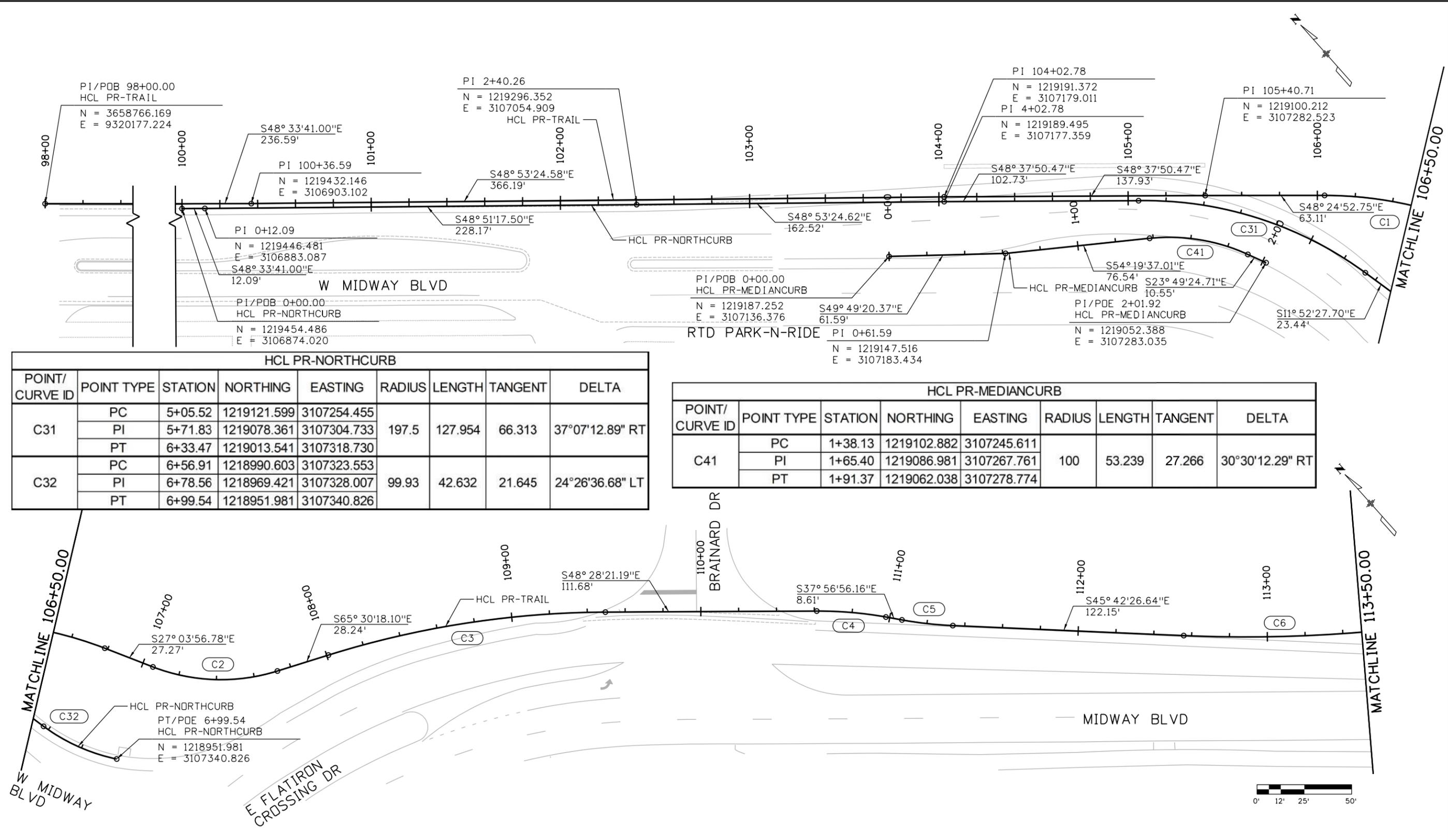
\*\* A Tabulation of Survey Monuments may be provided on the plans.

**GENERAL NOTES:**

- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDDT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer \_\_\_\_\_ days prior to the Presurvey Conference - Construction Survey.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- The Contractor shall furnish an As Staked (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
  - Horizontal Control (Primary & Secondary)
  - Vertical Control (i.e. Benchmarks)
  - Property Pin Ties
  - Horizontal Alignment
  - Grading
  - Slope Staking
  - Minor Structures
  - Major Structures
  - One fieldbook for each work category shown on this sheet
  - Other Fieldbook(s): \_\_\_\_\_
- The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
  - All required Instrument Calibrations

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	Unit Information						Void:	Detailer: Z. CRIMMINS		Sheet Subset: SUR TAB	Subset Sheets: 01 of 01
 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					CITY ENGINEER (OR DESIGNEE) _____ DATE _____						

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C31	PC	5+05.52	1219121.599	3107254.455	197.5	127.954	66.313	37°07'12.89" RT
	PI	5+71.83	1219078.361	3107304.733				
	PT	6+33.47	1219013.541	3107318.730				
C32	PC	6+56.91	1218990.603	3107323.553	99.93	42.632	21.645	24°26'36.68" LT
	PI	6+78.56	1218969.421	3107328.007				
	PT	6+99.54	1218951.981	3107340.826				

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C41	PC	1+38.13	1219102.882	3107245.611	100	53.239	27.266	30°30'12.29" RT
	PI	1+65.40	1219086.981	3107267.761				
	PT	1+91.37	1219062.038	3107278.774				

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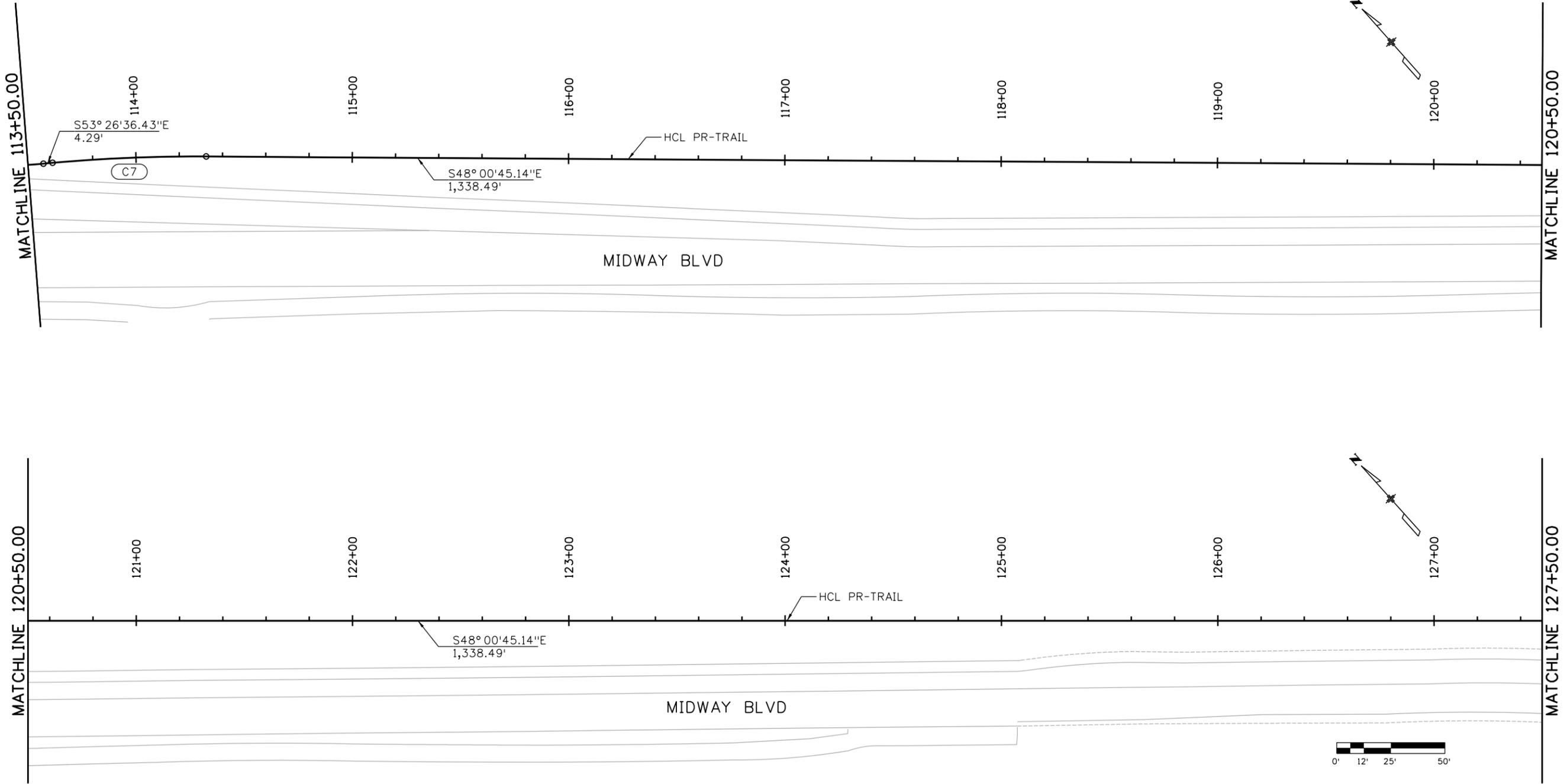
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INDUSTRIAL LANE BIKEWAY PHASE 2  
 GEOMETRIC CONTROL PLAN  
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 Designer: Z. CRIMMINS  
 Detailer: Z. CRIMMINS  
 Sheet Subset: GEOMETRY  
 Subst Sheets: 01 of 06

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **22**



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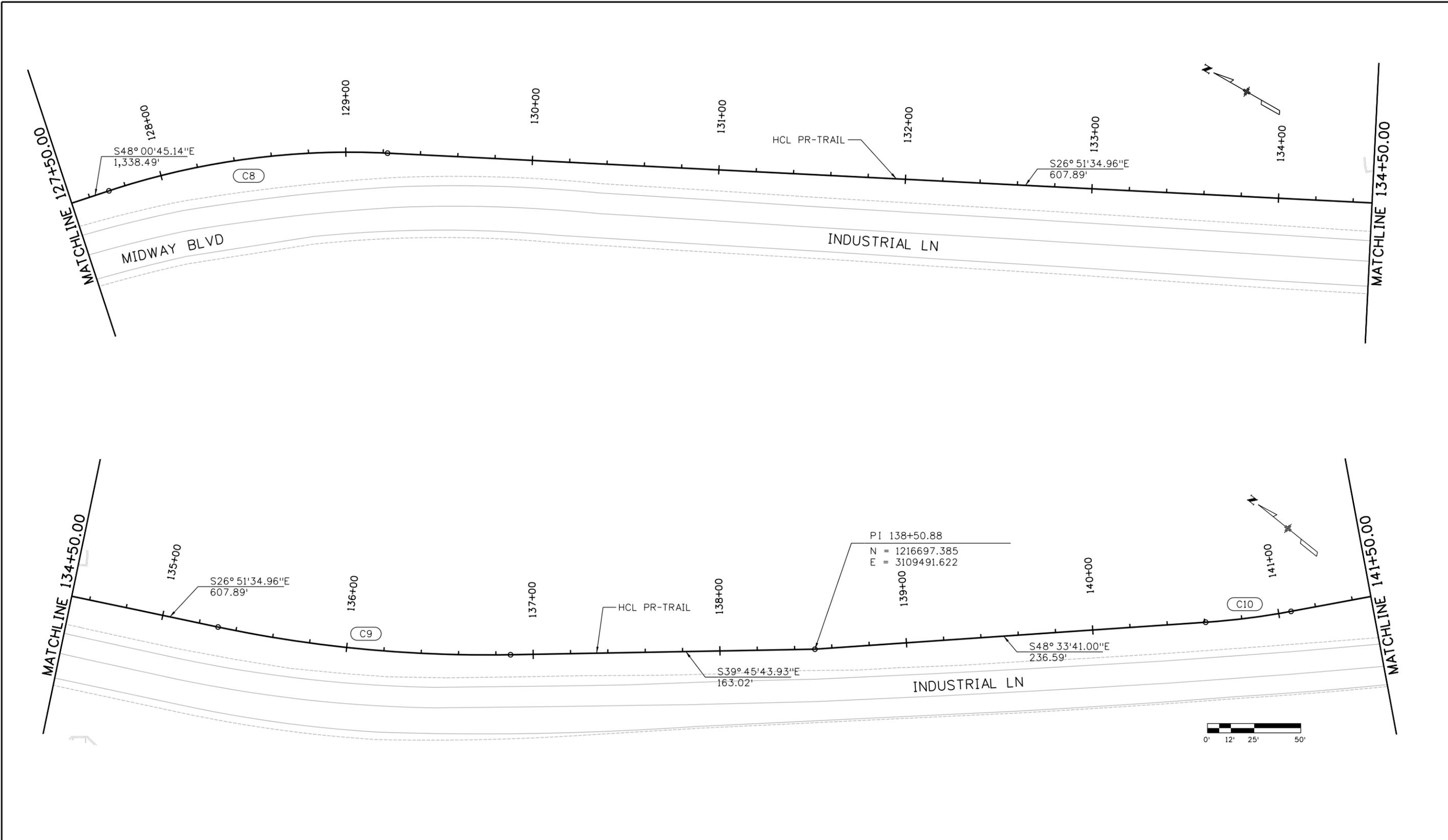
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 GEOMETRIC CONTROL PLAN**  
 STA: 113+50.00 TO STA: 127+50.00

Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: GEDMETRY Subset Sheets: 02 of 06

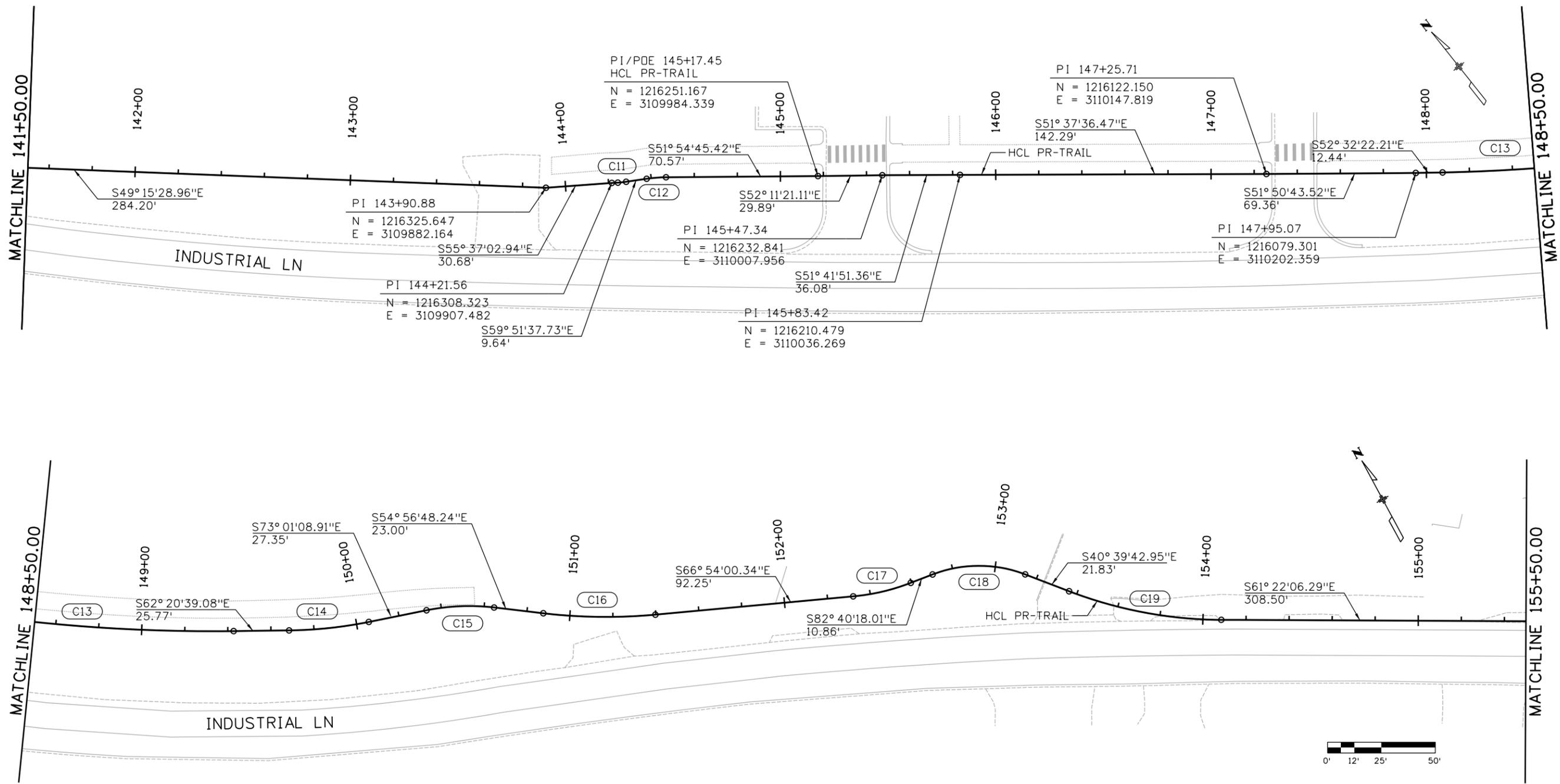
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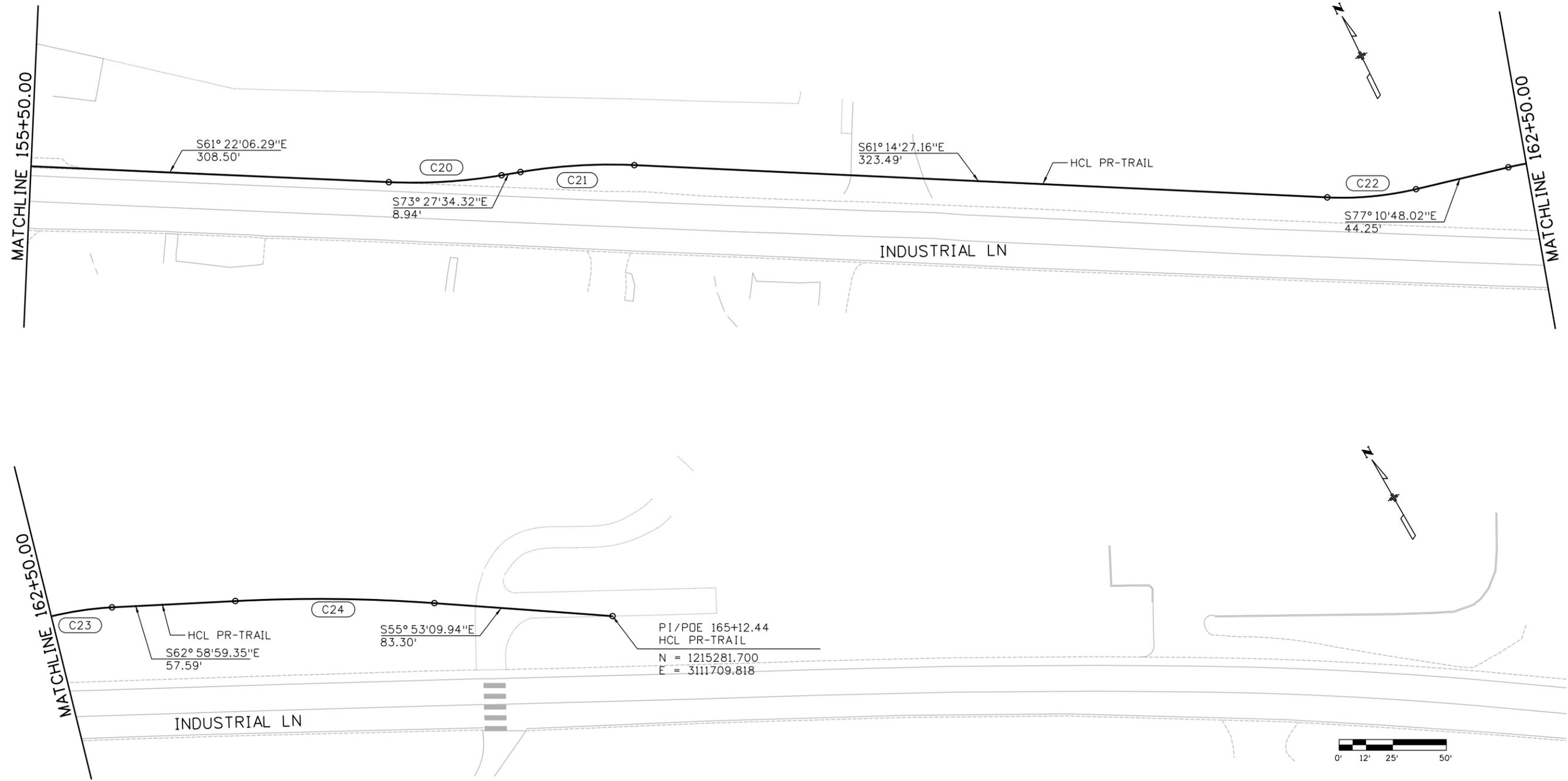
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	Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806						Void:	Detailer: Z. CRIMMINS	Sheet Subset: GEDMETRY	Subset Sheets: 03 of 06	Sheet Number <b>24</b>

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	Date:	Comments	Init.															
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	(Empty cells for revisions)	(Empty cells for revisions)																
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INDUSTRIAL LANE BIKEWAY PHASE 2 GEOMETRIC CONTROL PLAN STA: 155+50.00 TO STA: 165+12.44			
Designer:	Z. CRIMMINS	Checker:	D. DYER
Detailer:	Z. CRIMMINS		
Sheet Subset:	GEDMETRY	Subset Sheets:	05 of 06

Project No./Code	STU M145-013
	23593
Sheet Number	26

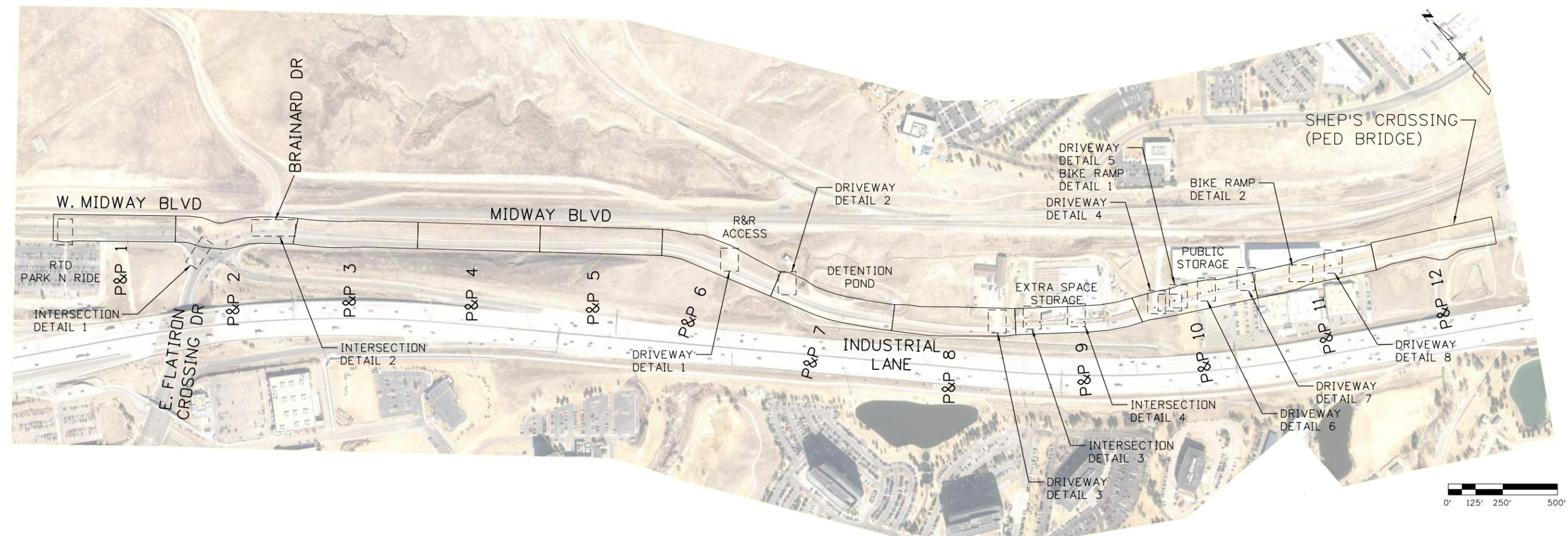
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C1	PC	106+03.82	1219058.324	3107329.727	200	74.522	37.698	21°20'55.97" RT
	PI	106+41.52	1219033.303	3107357.924				
	PT	106+78.34	1218999.733	3107375.077				
C2	PC	107+05.62	1218975.445	3107387.488	100	67.089	34.862	38°26'21.32" LT
	PI	107+40.48	1218944.401	3107403.350				
	PT	107+72.71	1218929.947	3107435.075				
C3	PC	108+00.94	1218918.239	3107460.771	500	148.636	74.87	17°01'56.91" RT
	PI	108+75.81	1218887.197	3107528.903				
	PT	109+49.58	1218837.559	3107584.954				
C4	PC	110+61.26	1218763.517	3107668.563	200	36.734	18.419	10°31'25.03" RT
	PI	110+79.68	1218751.305	3107682.352				
	PT	110+98.00	1218736.781	3107693.679				
C5	PC	111+06.60	1218729.994	3107698.972	200	27.082	13.562	07°45'30.48" LT
	PI	111+20.17	1218719.299	3107707.312				
	PT	111+33.69	1218709.829	3107717.019				
C6	PC	112+55.83	1218624.532	3107804.449	750	101.265	50.709	07°44'09.79" LT
	PI	113+06.54	1218589.120	3107840.746				
	PT	113+57.10	1218558.917	3107881.479				
C7	PC	113+61.39	1218556.361	3107884.926	750	71.09	35.572	05°25'51.29" RT
	PI	113+96.96	1218535.174	3107913.499				
	PT	114+32.48	1218511.378	3107939.940				
C8	PC	127+70.97	1217615.968	3108934.830	410	151.366	76.555	21°09'10.19" RT
	PI	128+47.53	1217564.756	3108991.733				
	PT	129+22.34	1217496.460	3109026.321				
C9	PC	135+30.23	1216954.153	3109300.969	700	157.634	79.152	12°54'08.97" LT
	PI	136+09.38	1216883.541	3109336.731				
	PT	136+87.86	1216822.697	3109387.356				
C10	PC	140+60.59	1216543.154	3109633.726	400	46.087	23.069	06°36'05.23" LT
	PI	140+83.66	1216526.189	3109649.358				
	PT	141+06.68	1216511.133	3109666.836				
C11	PC	144+24.37	1216306.682	3109909.769	40	3.852	1.927	05°31'02.39" LT
	PI	144+26.30	1216305.558	3109911.335				
	PT	144+28.23	1216304.590	3109913.002				
C12	PC	144+37.87	1216299.749	3109921.340	65	9.017	4.516	07°56'52.31" RT
	PI	144+42.38	1216297.482	3109925.245				
	PT	144+46.88	1216294.697	3109928.799				
C13	PC	148+07.50	1216071.736	3110212.232	790	135.188	67.759	09°48'16.87" LT
	PI	148+75.26	1216030.524	3110266.018				
	PT	149+42.69	1215999.073	3110326.036				

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	PI	149+87.15	1215978.438	3110365.413				
	PT	150+05.73	1215972.981	3110383.284				
C15	PC	150+33.07	1215964.995	3110409.437	100	31.542	15.903	18°04'20.68" RT
	PI	150+48.98	1215960.350	3110424.647				
	PT	150+64.61	1215951.216	3110437.666				
C16	PC	150+87.62	1215938.004	3110456.497	250	52.156	26.173	11°57'12.11" LT
	PI	151+13.79	1215922.972	3110477.923				
	PT	151+39.77	1215912.703	3110501.998				
C17	PC	152+32.02	1215876.512	3110586.847	100	27.527	13.851	15°46'17.67" LT
	PI	152+45.87	1215871.078	3110599.588				
	PT	152+59.55	1215869.311	3110613.325				
C18	PC	152+70.41	1215867.926	3110624.096	60	43.992	23.038	42°00'35.06" RT
	PI	152+93.44	1215864.987	3110646.946				
	PT	153+14.40	1215847.512	3110661.957				
C19	PC	153+36.23	1215830.954	3110676.180	200	72.279	36.538	20°42'23.34" LT
	PI	153+72.77	1215803.237	3110699.988				
	PT	154+08.51	1215785.729	3110732.058				
C20	PC	157+17.01	1215637.902	3111002.837	250	52.757	26.477	12°05'28.03" LT
	PI	157+43.49	1215625.215	3111026.076				
	PT	157+69.77	1215617.677	3111051.458				
C21	PC	157+78.71	1215615.131	3111060.028	250	53.314	26.758	12°13'07.16" RT
	PI	158+05.47	1215607.514	3111085.679				
	PT	158+32.02	1215594.639	3111109.137				
C22	PC	161+55.51	1215438.999	3111392.725	150	41.729	21	15°56'20.86" LT
	PI	161+76.51	1215428.896	3111411.134				
	PT	161+97.24	1215424.236	3111431.611				
C23	PC	162+41.49	1215414.418	3111474.755	150	37.167	18.679	14°11'48.66" RT
	PI	162+60.17	1215410.273	3111492.969				
	PT	162+78.65	1215401.788	3111509.610				
C24	PC	163+36.24	1215375.629	3111560.912	750	92.9	46.51	07°05'49.41" RT
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	 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806						Void:	Detailer: Z. CRIMMINS		Sheet Subset: GEOMETRY	Subset Sheets: 06 of 06	Sheet Number <b>27</b>

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Print Date: 8/23/2024  
 File Name: Indy-Keymap.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
 Stanley Consultants inc.  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

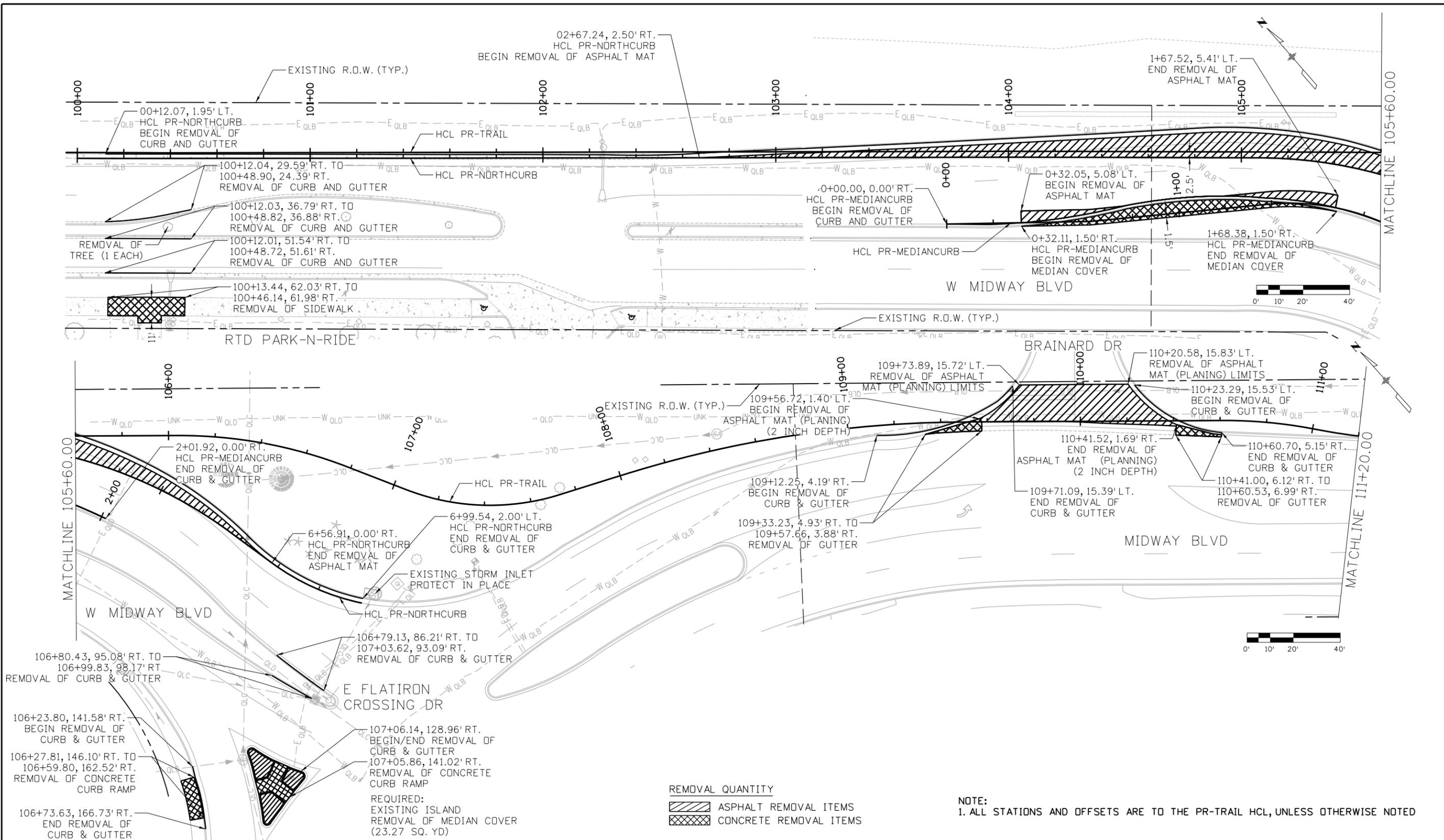
As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 PROJECT OVERVIEW SHEET**

Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: KEYMAP  
 Subset Sheets: 01 of 01

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **28**

10:35 2:44:41 PM pw:\SCI-PW\INTEG-2.stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2\11-CADD\Worksets\30322.01\DGNS\Design\Sheets\Revised Removal Sheets



**REMOVAL QUANTITY**  
 ASPHALT REMOVAL ITEMS  
 CONCRETE REMOVAL ITEMS

**NOTE:**  
 1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED

All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/22/2024  
 File Name: 30322\_Reovals.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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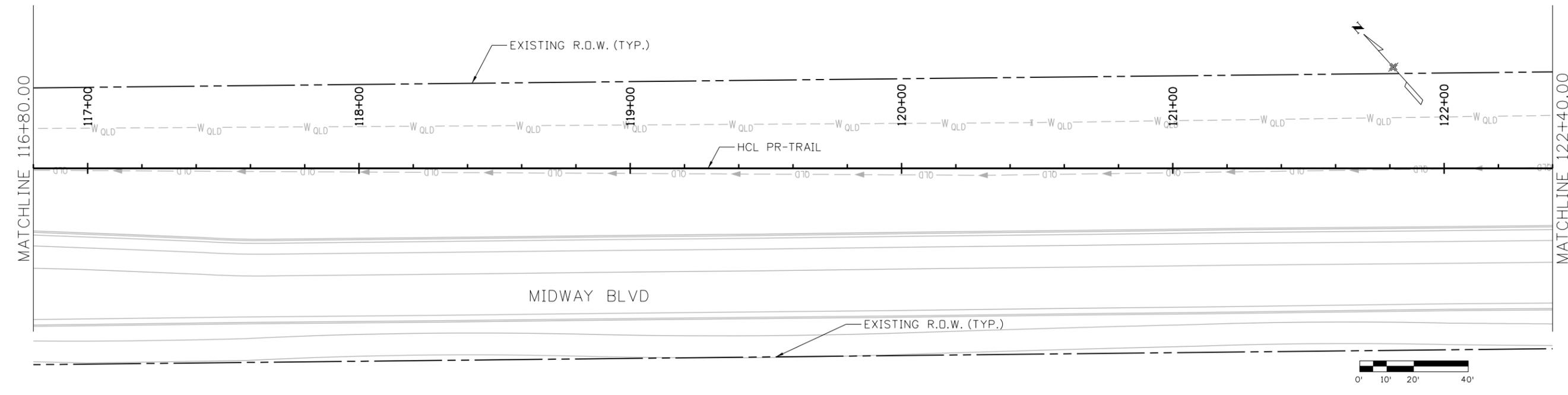
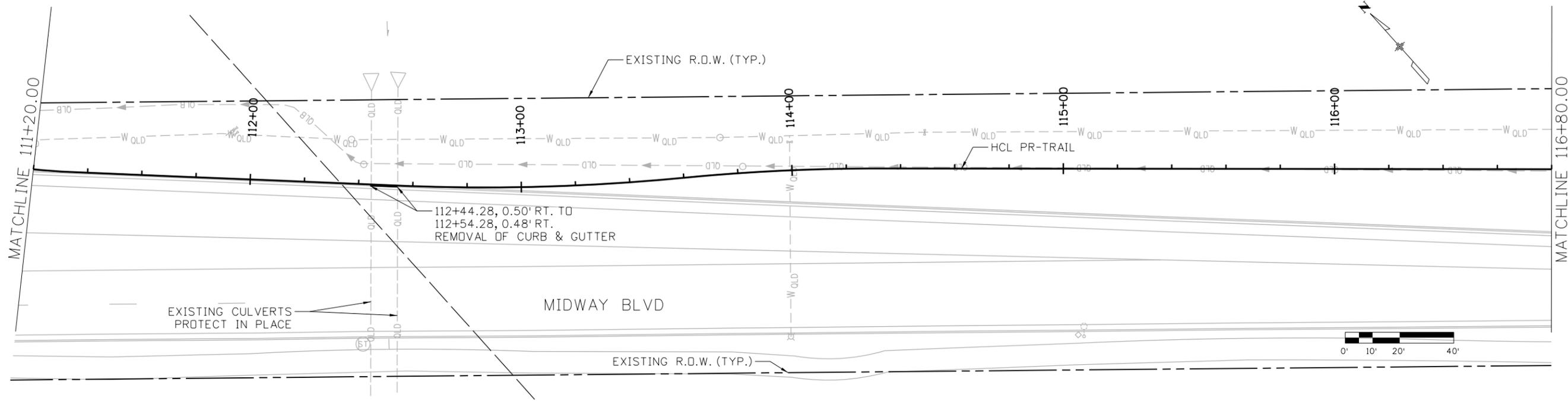
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 REMOVAL SHEETS**  
 STA: 100+00.00 TO 111+20.00  
 Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: REMOVALS  
 Subset Sheets: 01 of 06

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **29**

10:35 2:44:42 PM pw:\VCI-PW\INTEC-2\stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322\01\Drawings\Design\Sheets\Revised Removal Sheets



REMOVAL QUANTITY

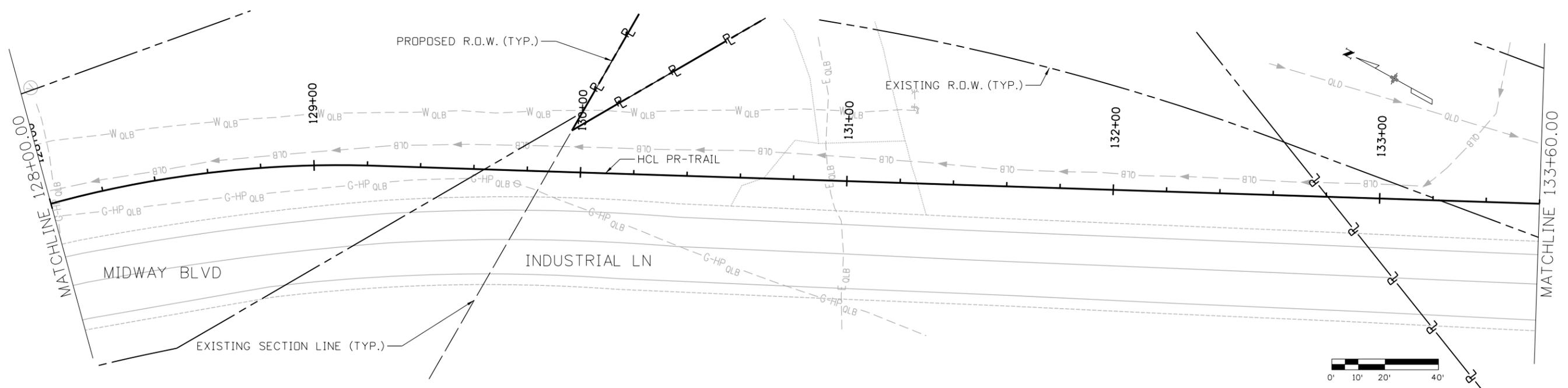
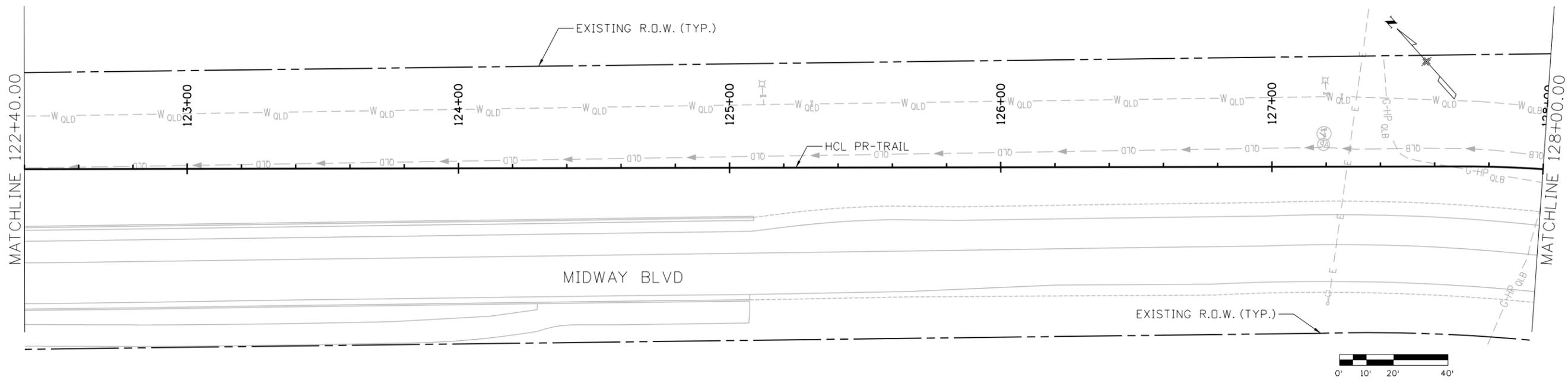
ASPHALT REMOVAL ITEMS

CONCRETE REMOVAL ITEMS

NOTE:  
1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/22/2024	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code	
	File Name: 30322_Reovals.dgn	Date: _____	Comments: _____	Init.: _____			No Revisions:	REMOVAL SHEETS		STA: 111+20.00 TO 122+40.00	STU M145-013
	Horiz. Scale: _____ Vert. Scale: As Noted	_____	_____	_____			Revised:	Designer: Z. CRIMMINS	Checker: D. DYER	23593	Sheet Number
	Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	_____	_____	_____			Void:	Sheet Subset: REMOVALS	Subset Sheets: 02 of 06	30	

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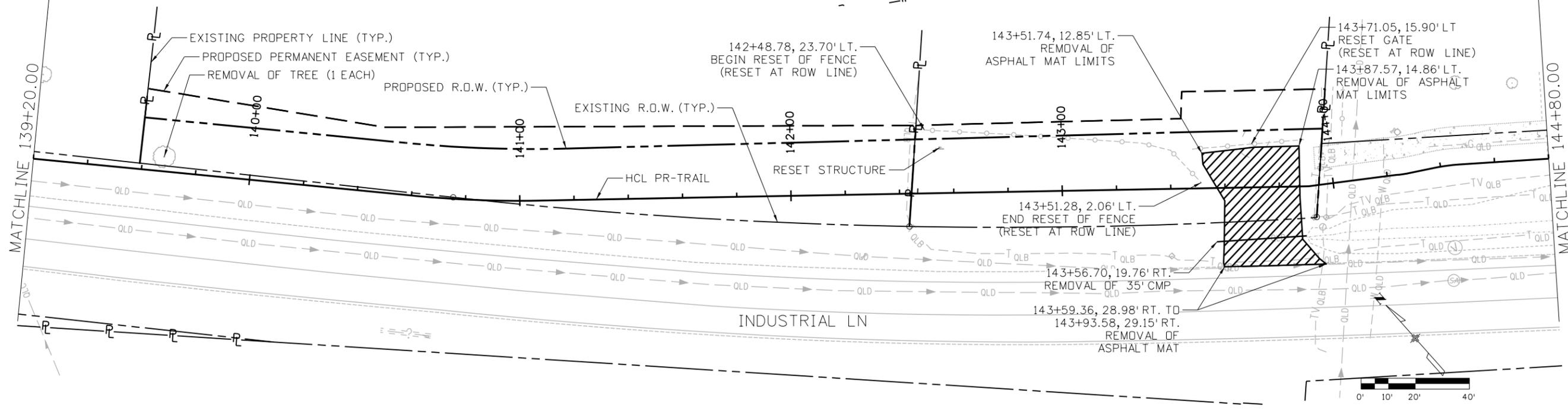
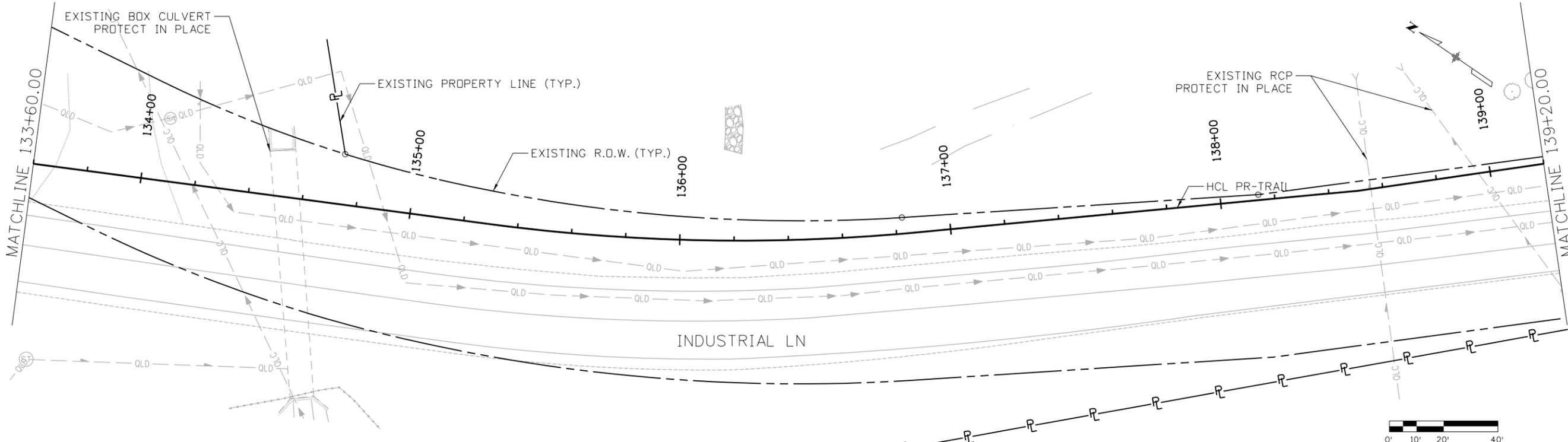


**REMOVAL QUANTITY**  
 ASPHALT REMOVAL ITEMS  
 CONCRETE REMOVAL ITEMS

**NOTE:**  
 1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/22/2024	<b>Sheet Revisions</b>				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	<b>INDUSTRIAL LANE BIKEWAY PHASE 2</b> <b>REMOVAL SHEETS</b> <b>STA: 122+40.00 TO 133+60.00</b>		Project No./Code STU M145-013
	File Name: 30322_Removals.dgn	Date: _____	Comments: _____	Init.: _____			No Revisions:	Designer: Z. CRIMMINS	Checker: D. DYER	23593
	Horiz. Scale: _____ Vert. Scale: As Noted	_____	_____	_____			Revised:	Detailer: Z. CRIMMINS	_____	_____
	Unit Information  8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	_____	_____	_____			Void:	Sheet Subset: REMOVALS	Subset Sheets: 03 of 06	Sheet Number <b>31</b>

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**REMOVAL QUANTITY**  
 ASPHALT REMOVAL ITEMS  
 CONCRETE REMOVAL ITEMS

**NOTE:**  
 1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED

All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/22/2024  
 File Name: 30322\_Removals.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
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 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



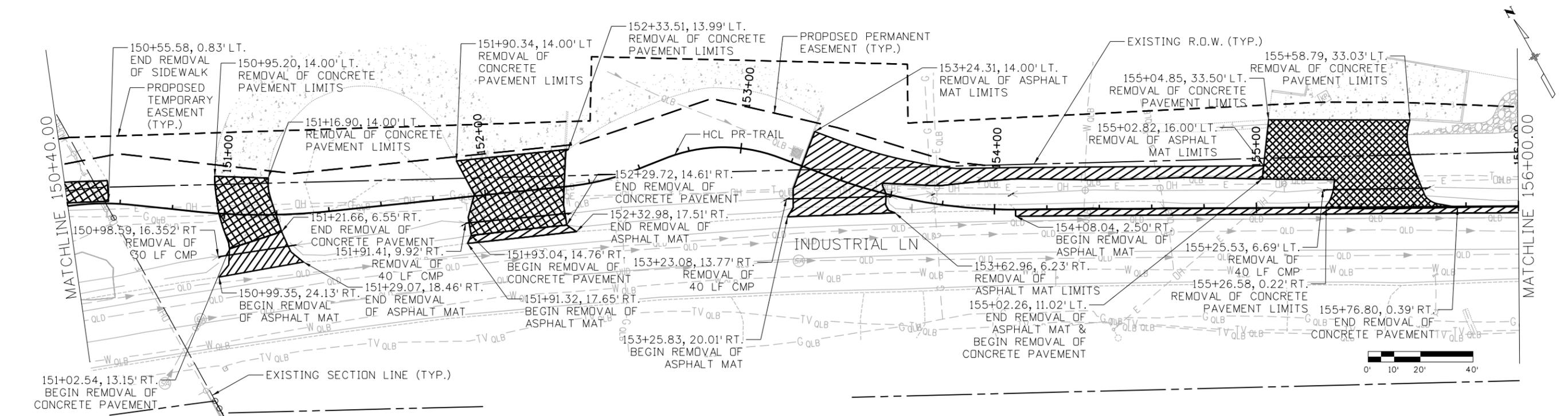
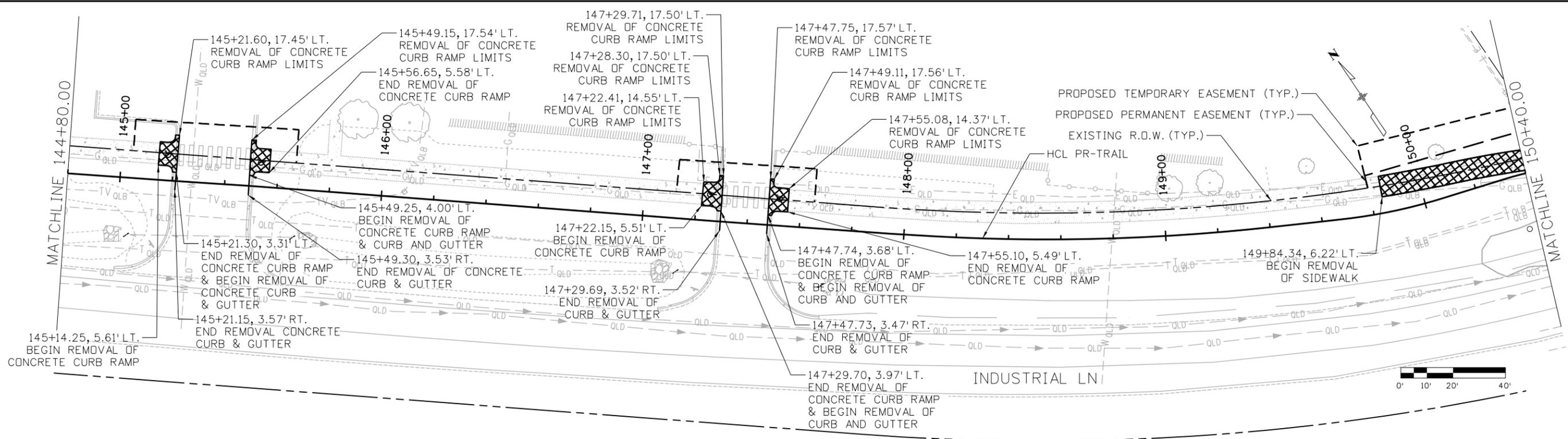
ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  
 CITY ENGINEER (OR DESIGNEE) DATE

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2**  
**REMOVAL SHEETS**  
 STA: 133+60.00 TO 144+80.00  
 Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: REMOVALS  
 Subset Sheets: 04 of 06

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **32**

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**REMOVAL QUANTITY**  
 ASPHALT REMOVAL ITEMS  
 CONCRETE REMOVAL ITEMS

**NOTE:**  
 1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED

All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/22/2024  
 File Name: 30322\_Removals.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



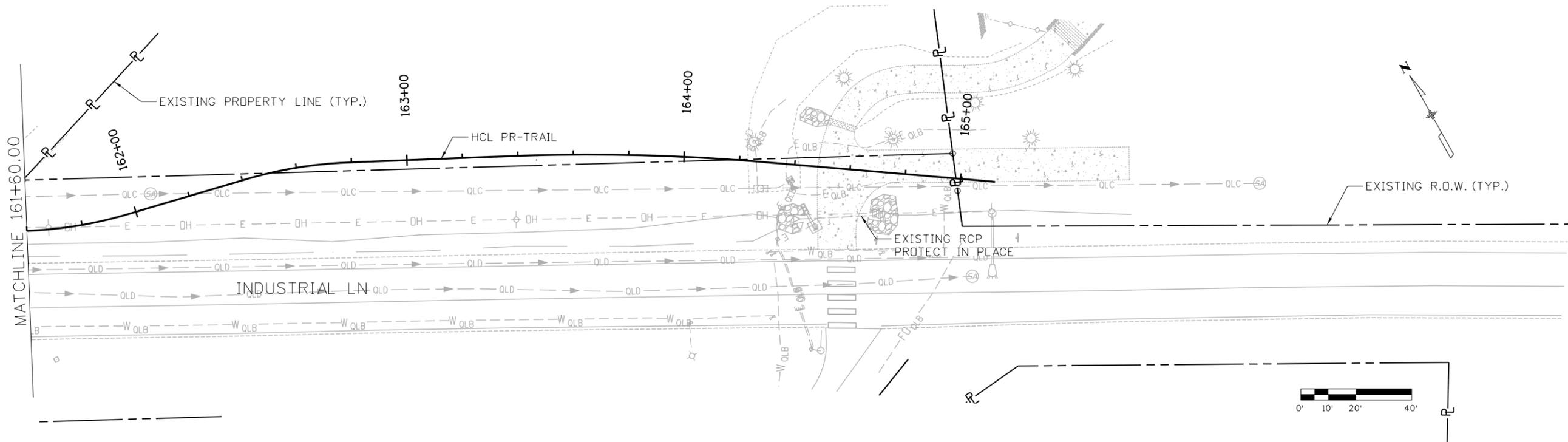
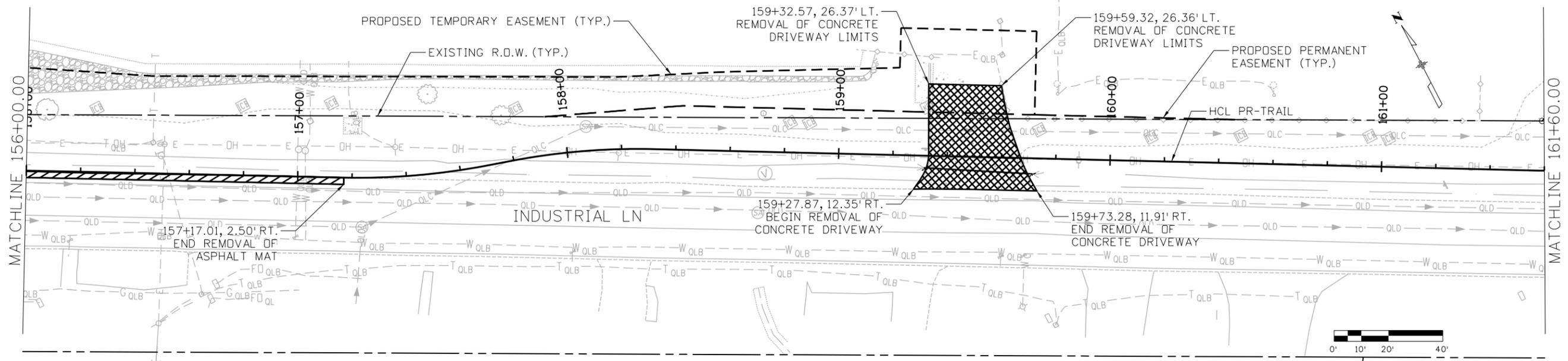
ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  
 CITY ENGINEER (OR DESIGNEE) DATE

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 REMOVAL SHEETS  
 STA: 144+80.00 TO 156+00.00**  
 Designer: Z. CRIMMINS  
 Detailer: Z. CRIMMINS  
 Sheet Subset: REMOVALS  
 Checker: D. DYER  
 Subset Sheets: 05 of 06

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **33**

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**REMOVAL QUANTITY**  
 ASPHALT REMOVAL ITEMS  
 CONCRETE REMOVAL ITEMS

**NOTE:**  
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/22/2024  
 File Name: 30322\_Removals.dgn  
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 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



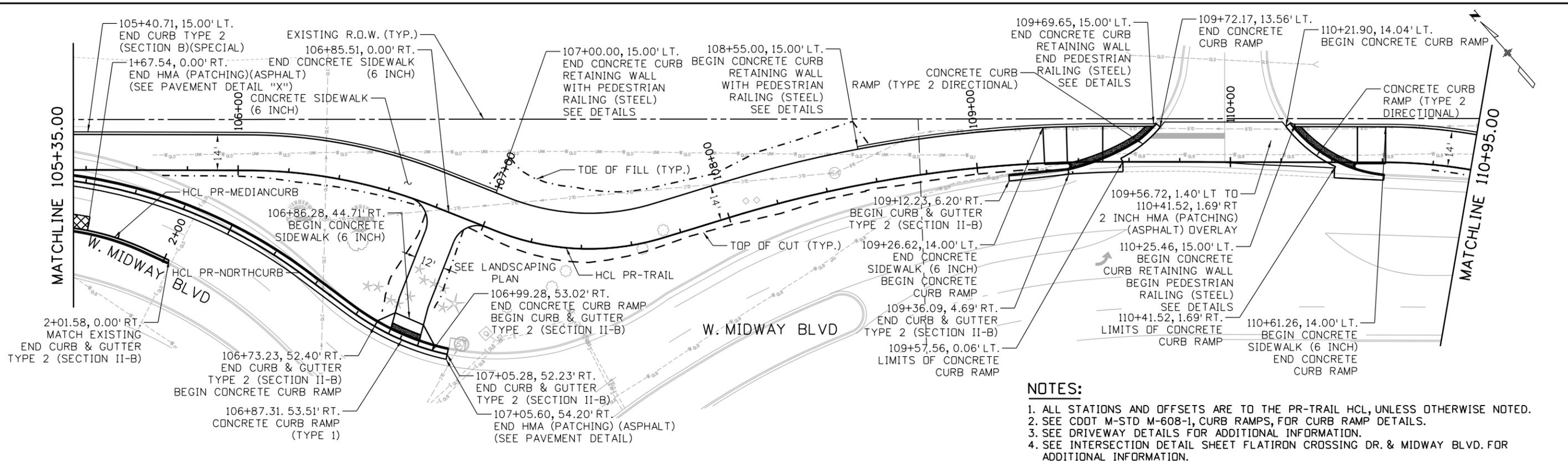
ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  
 CITY ENGINEER (OR DESIGNEE) DATE

As Constructed  
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 Void:

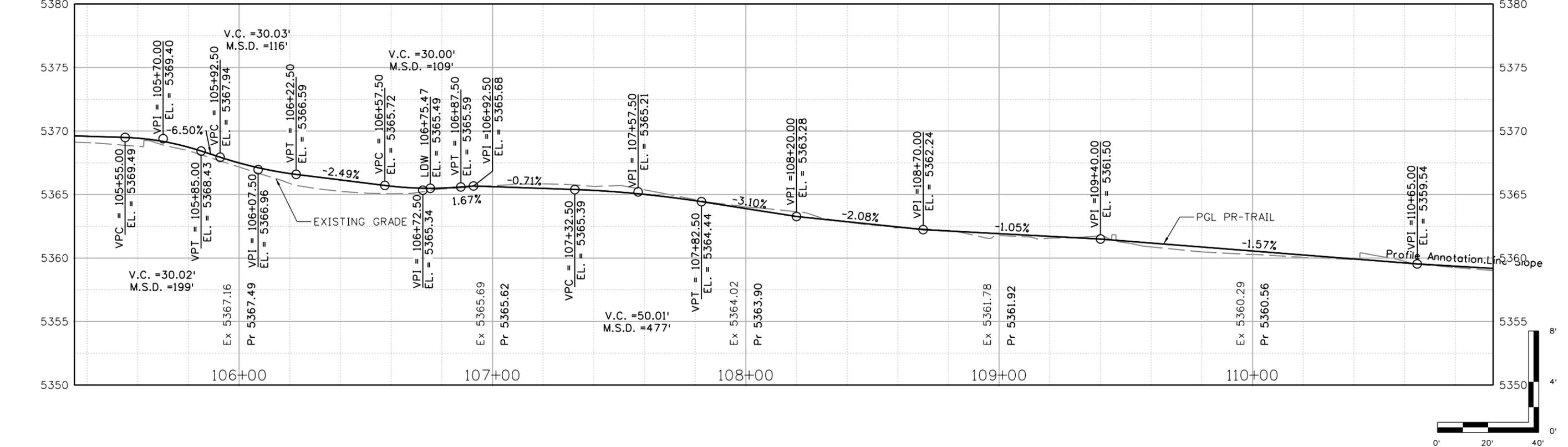
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 REMOVAL SHEETS  
 STA: 156+00.00 TO 165+00.00**  
 Designer: Z. CRIMMINS  
 Detailer: Z. CRIMMINS  
 Sheet Subset: REMOVALS  
 Subset Sheets: 06 of 06

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **34**





- NOTES:**
1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED.
  2. SEE CDDT M-STD M-608-1, CURB RAMPS, FOR CURB RAMP DETAILS.
  3. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.
  4. SEE INTERSECTION DETAIL SHEET FLATIRON CROSSING DR. & MIDWAY BLVD. FOR ADDITIONAL INFORMATION.



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 File Name: 30322\_Indy Trail Sheets(P&P\_REV).dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

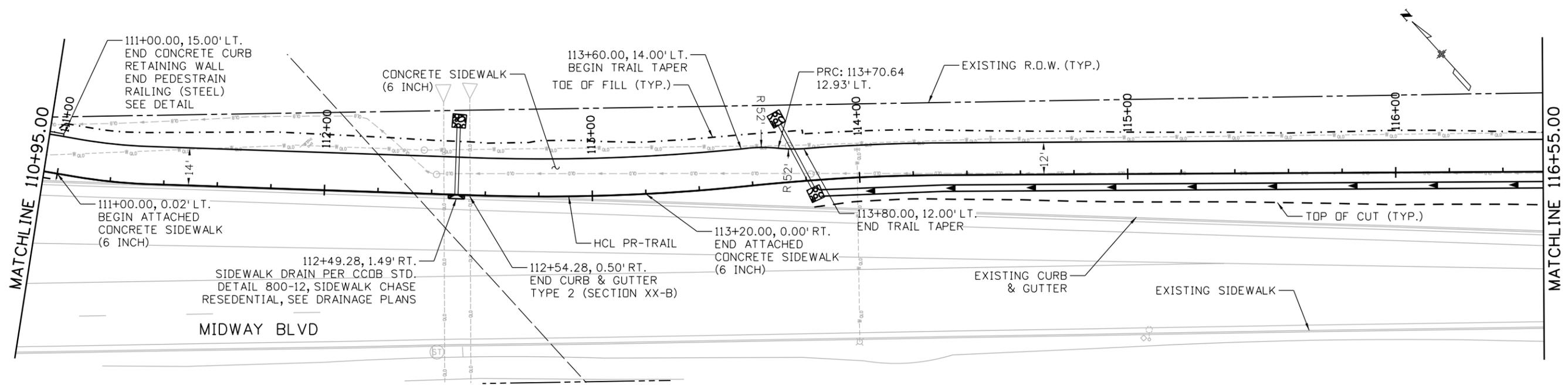
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**INDUSTRIAL LANE BIKEWAY PHASE 2**  
**PLAN/PROFILE SHEETS**  
**STA: 105+35.00 TO 110+95.00**

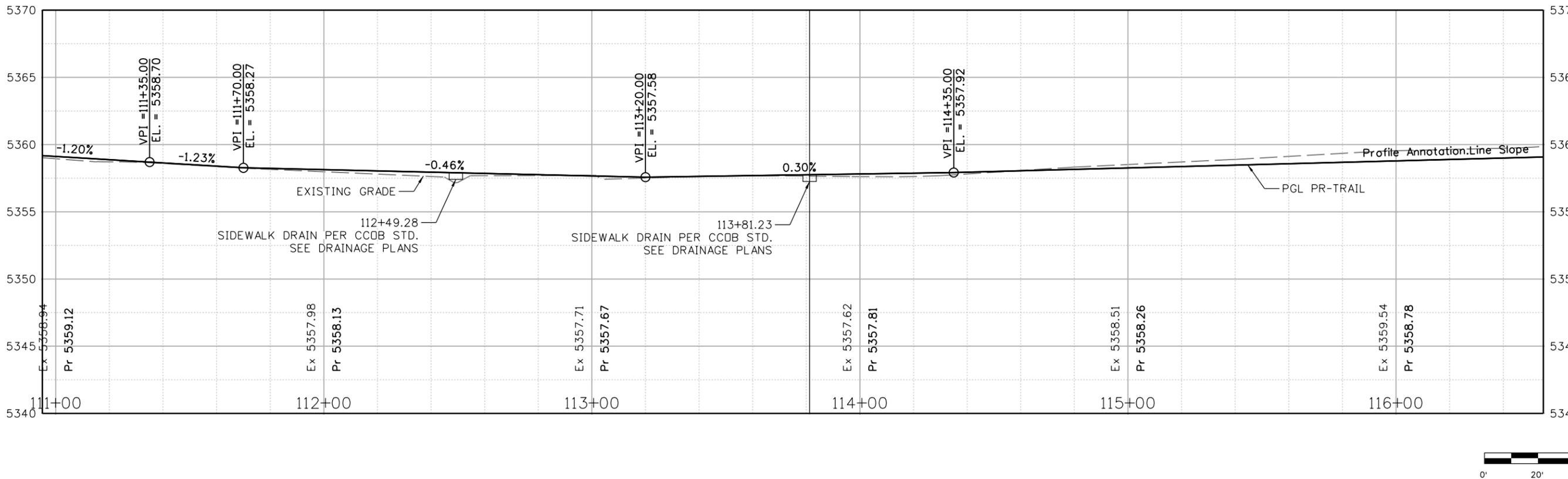
Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: ROADWAY  
 Subset Sheets: 02 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **36**

10:78 10:10:28 AM p:\1\SCI-PW\INTEG-2\stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2 11-CADD\Worksets\30322.01\Design\Sheets\30322\_Indy Trail Sheets(P&P) Revised with new Profile

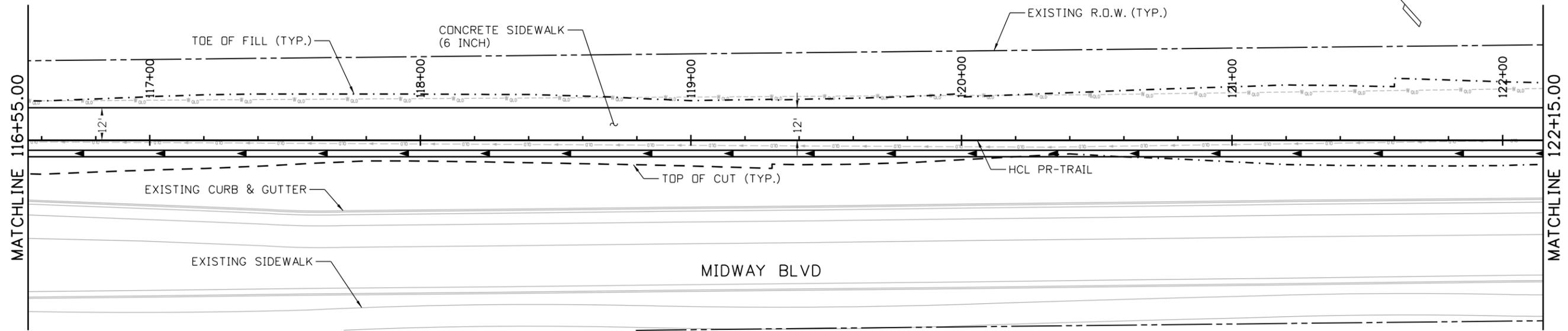


- NOTES:**
1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED.
  2. SEE CDDT M-STD M-608-1, CURB RAMPS, FOR CURB RAMP DETAILS.
  3. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.



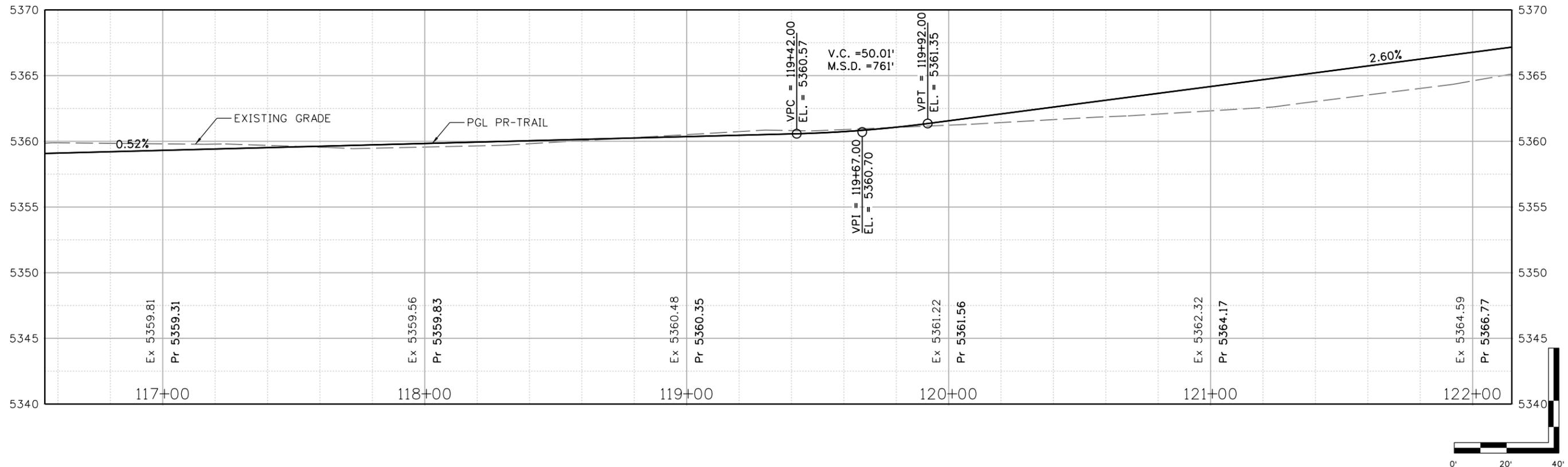
All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024 File Name: 30322_Indy Trail Sheets(P&P_REV).dgn	<b>Sheet Revisions</b>			ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.	As Constructed No Revisions: Revised: Void:	<b>INDUSTRIAL LANE BIKEWAY PHASE 2</b> PLAN/PROFILE SHEETS STA: 110+95.00 TO 116+55.00		Project No./Code STU M145-013
	Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Date:      Comments      Init.	Designer: Z. CRIMMINS Checker: D.DYER				23593		
CITY ENGINEER (OR DESIGNEE)      DATE						Sheet Subset: ROADWAY      Subset Sheets: 03 of 12	Sheet Number <b>37</b>		

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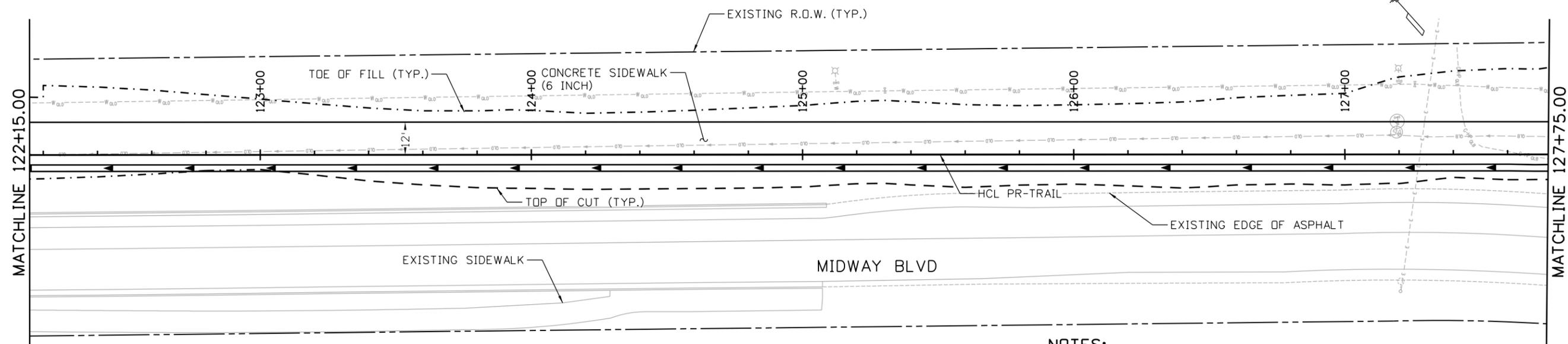
**NOTES:**

1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED.
2. SEE CDDT M-STD M-608-1, CURB RAMPS, FOR CURB RAMP DETAILS.
3. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.

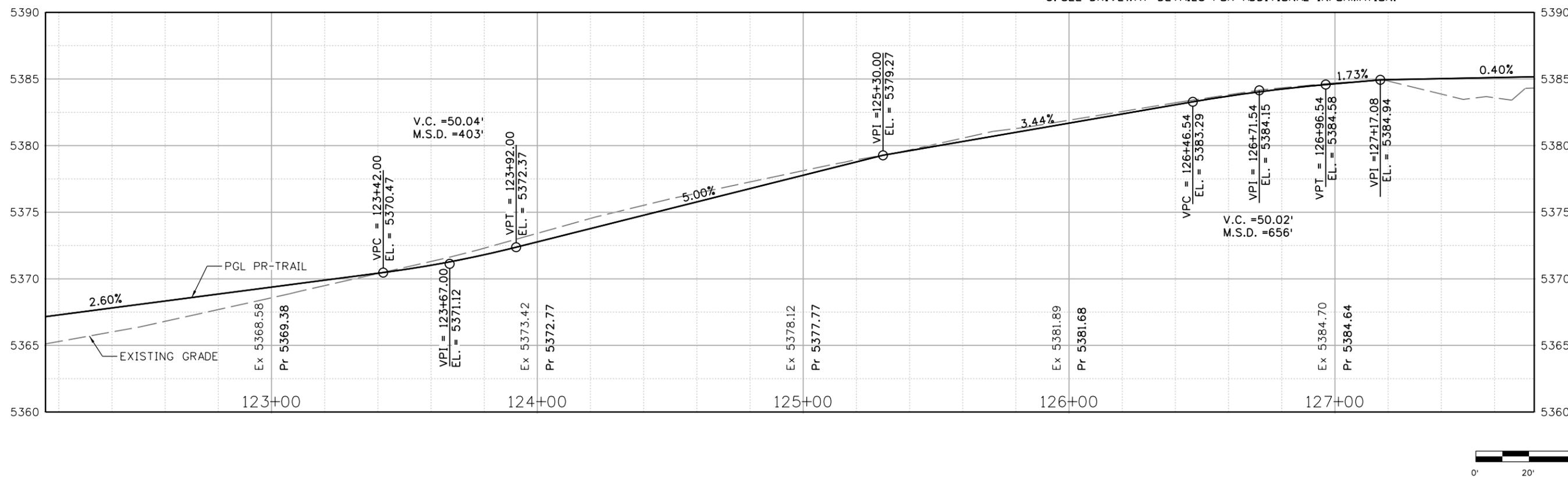


All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024		Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed No Revisions: Revised: Void:	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code STU M145-013 23593 Sheet Number <b>38</b>
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	Horiz. Scale: _____ Vert. Scale: As Noted Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806								STA: 116+55.00 TO 122+15.00		
									Designer: Z. CRIMMINS	Checker: D. DYER	
								Detailer: Z. CRIMMINS			
								Sheet Subset: ROADWAY	Subset Sheets: 04 of 12		

10:47 10/10/29 AM pwr:\SCI-PW\INTEG-2\stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2\11-CADD\Worksets\30322.01\DGNS\Design\Sheets\30322\_Indy Trail Sheets(P&P) Revised with new Profile

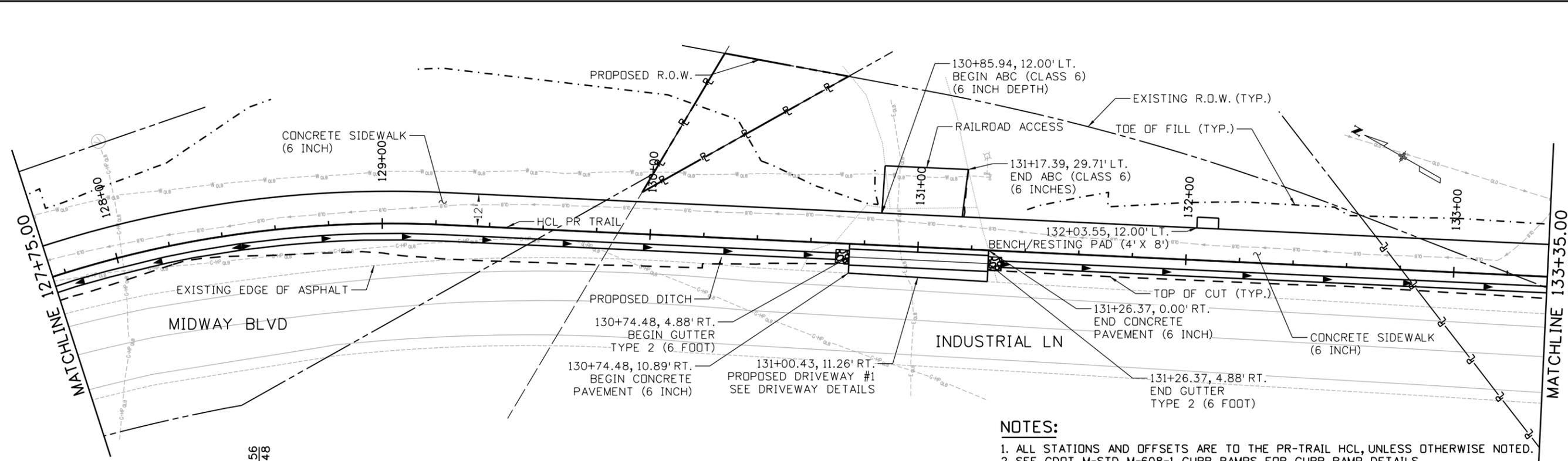


- NOTES:**
1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED.
  2. SEE CDDT M-STD M-608-1, CURB RAMPS, FOR CURB RAMP DETAILS.
  3. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.

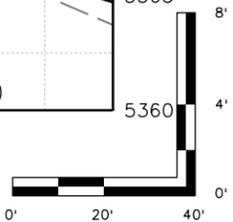
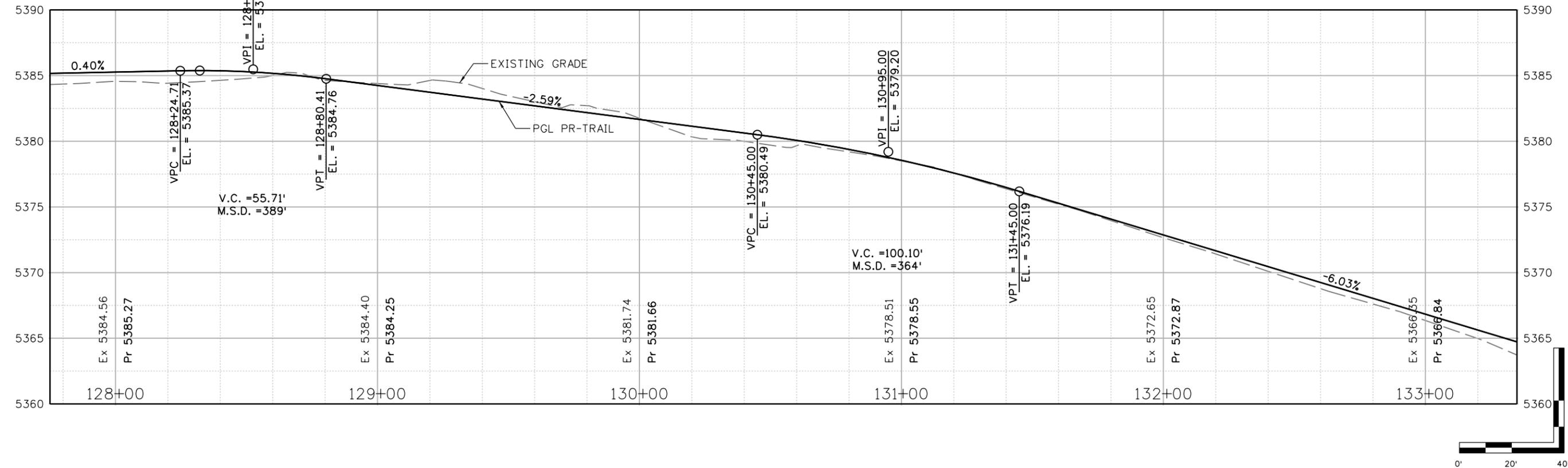


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	File Name: 30322_Indy Trail Sheets(P&P_REV).dgn		Date:	Comments:	Init.:				PLAN/PROFILE SHEETS STA: 122+15.00 TO 127+75.00		
	Horiz. Scale:      Vert. Scale: As Noted								Designer: Z. CRIMMINS	Checker: D. DYER	
	Unit Information								Detailer: Z. CRIMMINS	Sheet Subset: ROADWAY	
	8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806				Subset Sheets: 05 of 12						

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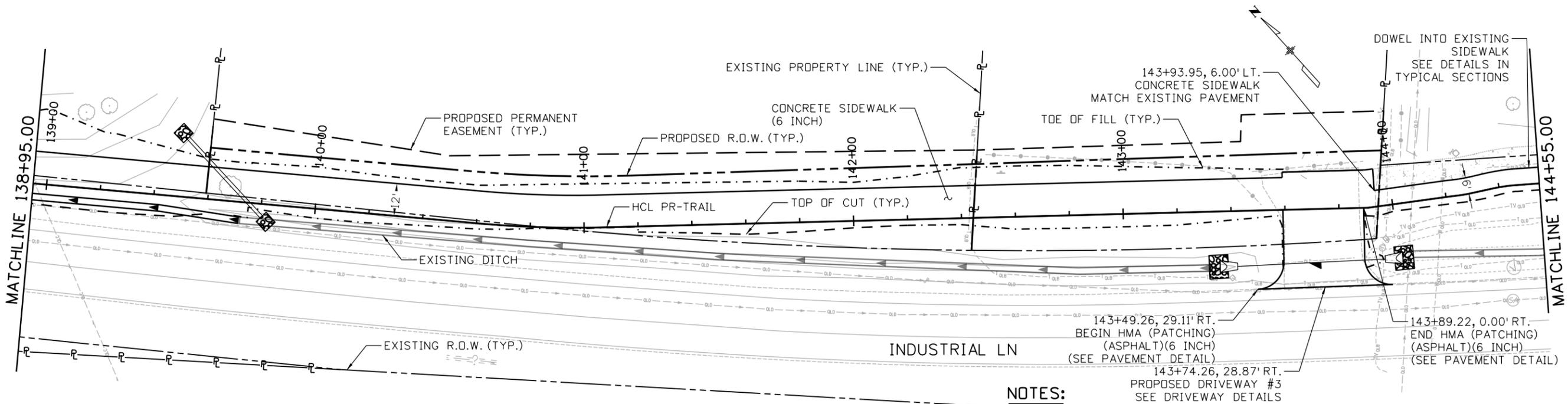
- NOTES:**
1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED.
  2. SEE CDDT M-STD M-608-1, CURB RAMP, FOR CURB RAMP DETAILS.
  3. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.



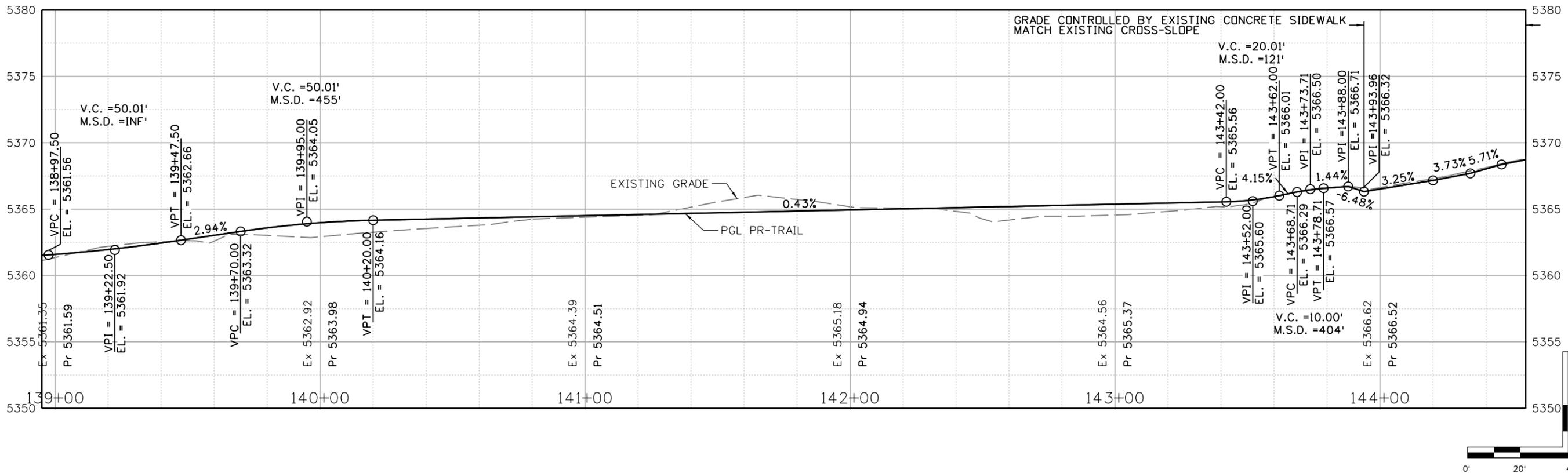
All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/16/2024 File Name: 30322_Indy Trail Sheets(P&P_REV).dgn	<b>Sheet Revisions</b>			ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	<b>INDUSTRIAL LANE BIKEWAY PHASE 2</b> PLAN/PROFILE SHEETS STA: 127+75.00 TO 133+35.00		Project No./Code STU M145-013
	Horiz. Scale: _____ Vert. Scale: As Noted	Date: _____ Comments: _____ Init.: _____	No Revisions:			Designer: Z. CRIMMINS Checker: D. DYER		23593	
	Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Revised:	Detailer: Z. CRIMMINS			Sheet Number <b>40</b>			
	Void:	Sheet Subset: ROADWAY Subset Sheets: 06 of 12				Sheet Number <b>40</b>			



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- NOTES:**
1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED.
  2. SEE CDDT M-STD M-608-1, CURB RAMPS, FOR CURB RAMP DETAILS.
  3. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.



All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/23/2024  
 File Name: 30322\_Indy Trail Sheets(P&P\_REV).dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2**  
**PLAN/PROFILE SHEETS**  
**STA: 138+95.00 TO 144+55.00**

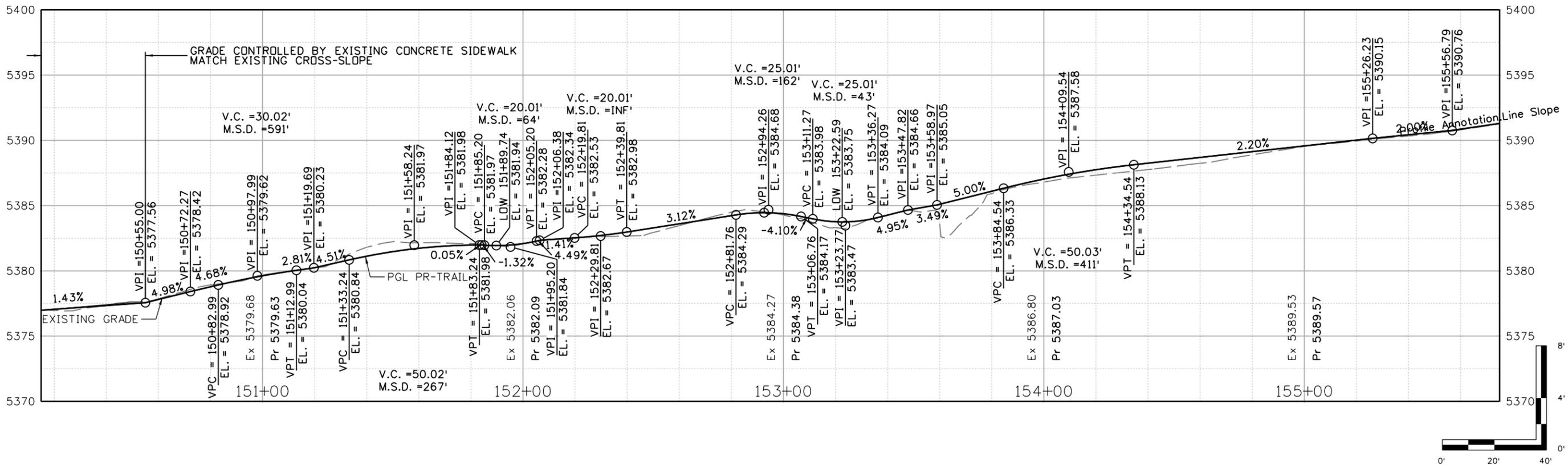
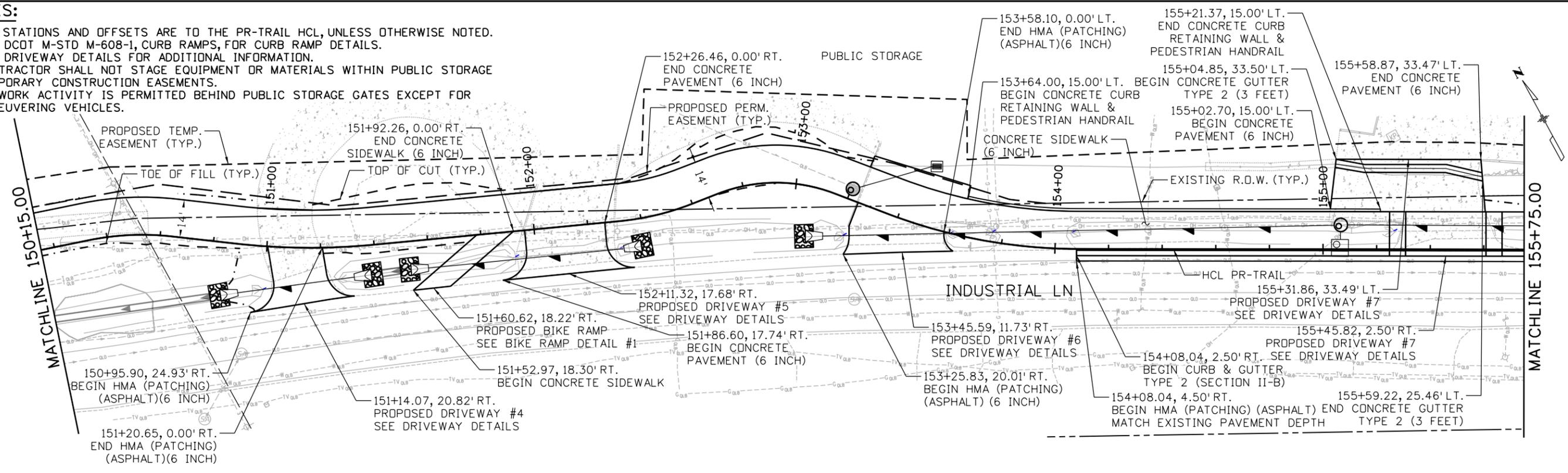
Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: ROADWAY  
 Subset Sheets: 08 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **42**



**NOTES:**

1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED.
2. SEE DCOT M-STD M-608-1, CURB RAMPS, FOR CURB RAMP DETAILS.
3. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL NOT STAGE EQUIPMENT OR MATERIALS WITHIN PUBLIC STORAGE TEMPORARY CONSTRUCTION EASEMENTS.
5. NO WORK ACTIVITY IS PERMITTED BEHIND PUBLIC STORAGE GATES EXCEPT FOR MANEUVERING VEHICLES.



All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/17/2024  
 File Name: 30322\_Indy Trail Sheets(P&P\_REV).dgn  
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 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

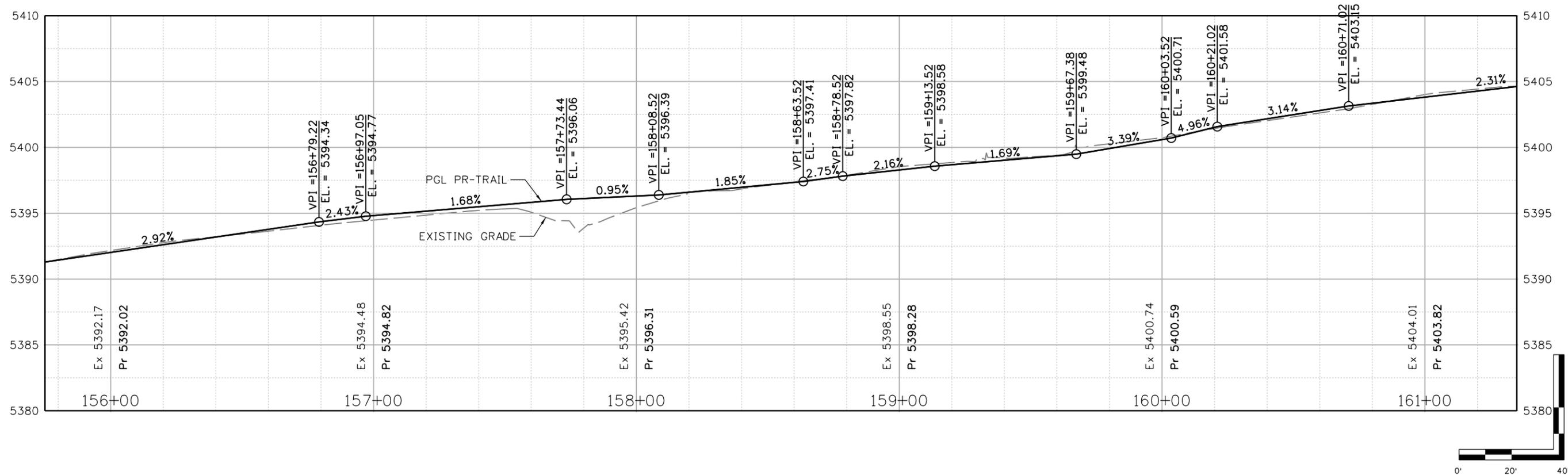
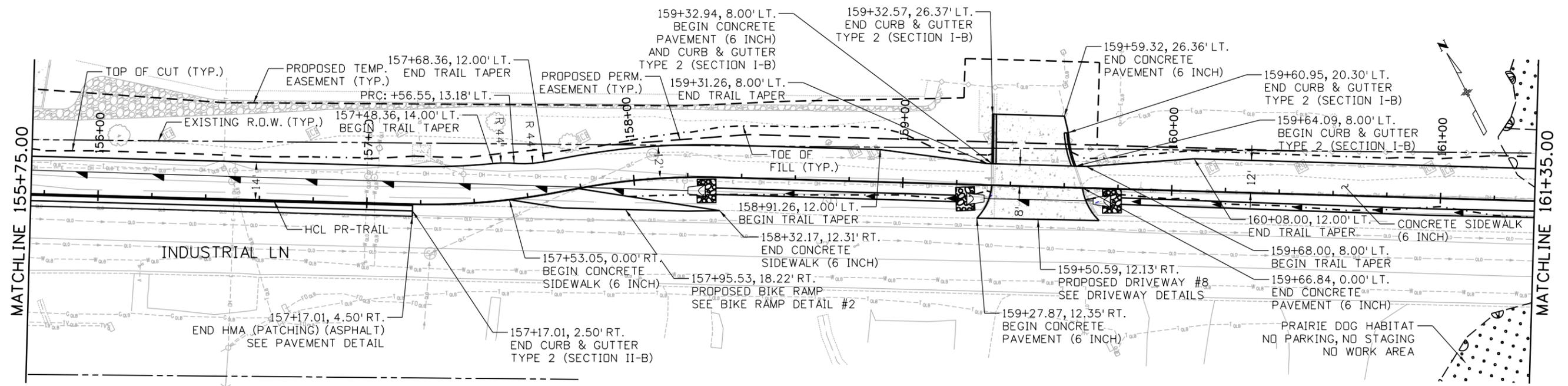
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**INDUSTRIAL LANE BIKEWAY PHASE 2**  
 PLAN/PROFILE SHEETS  
 STA: 150+15.00 TO 155+75.00

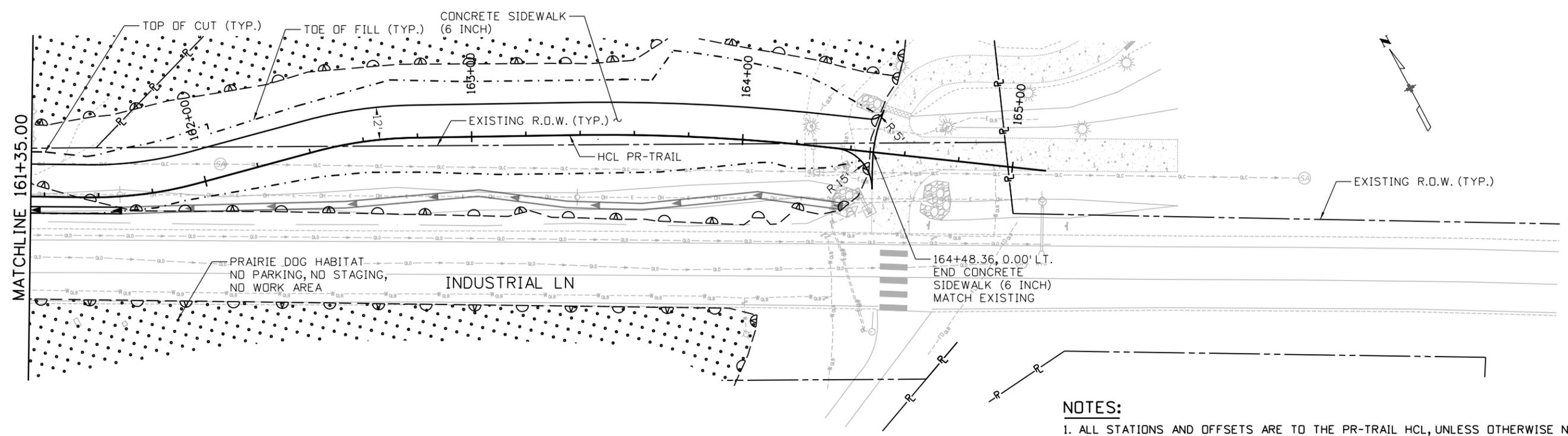
Designer: Z. CRIMMINS  
 Checker: D. DYER  
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Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **44**

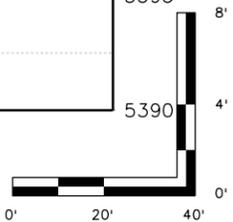
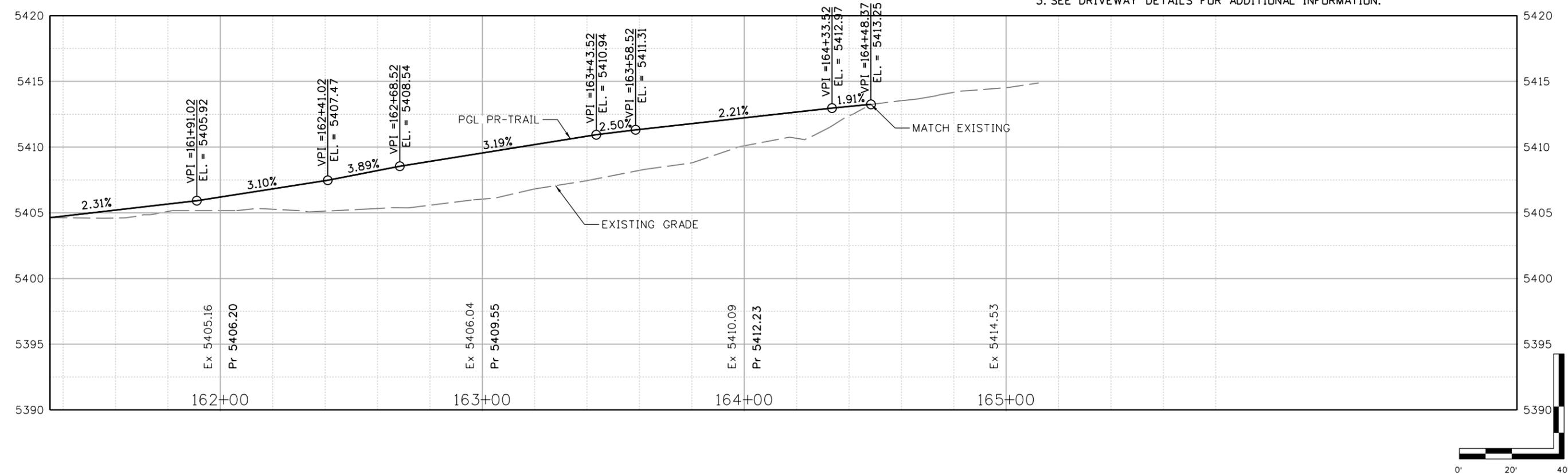
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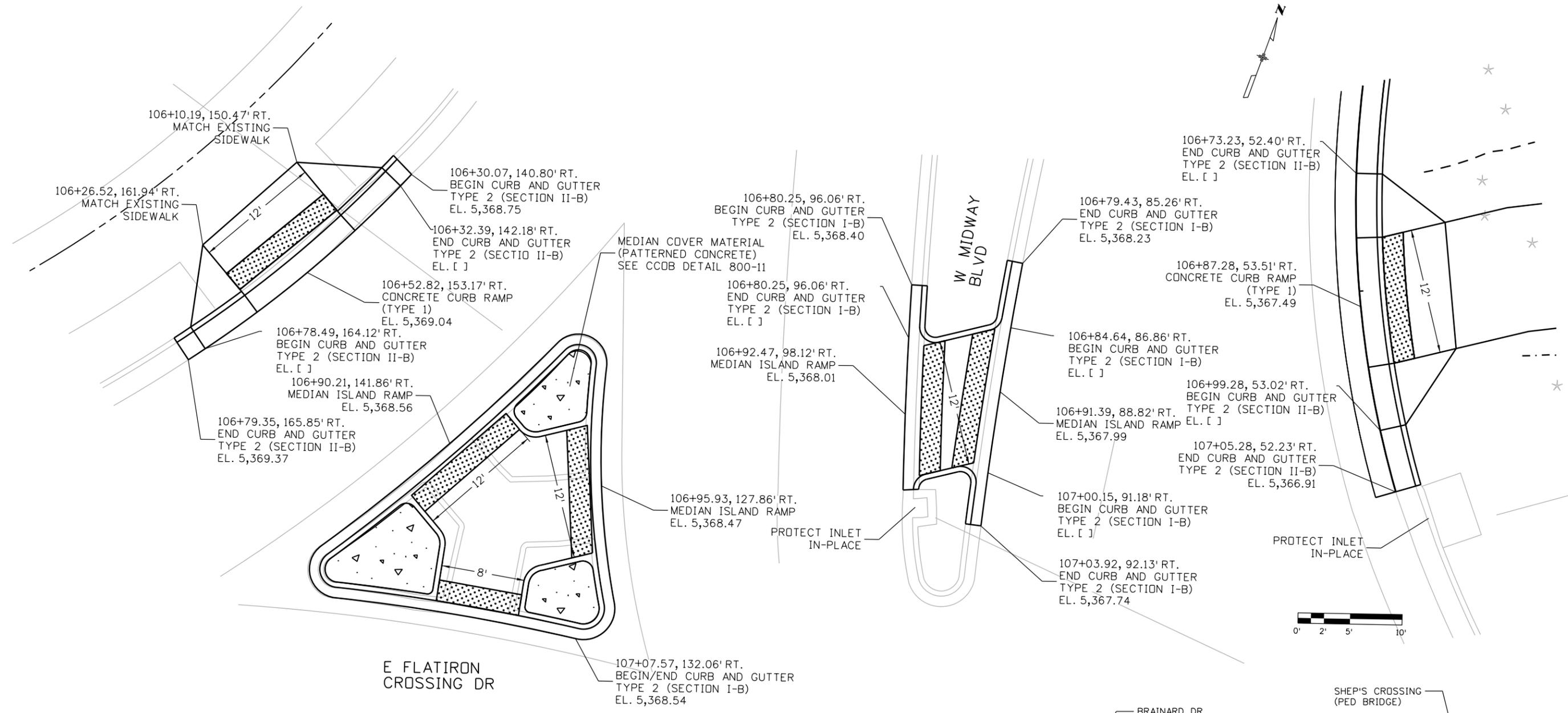


- NOTES:**
1. ALL STATIONS AND OFFSETS ARE TO THE PR-TRAIL HCL, UNLESS OTHERWISE NOTED.
  2. SEE DCOT M-STD M-608-1, CURB RAMPS, FOR CURB RAMP DETAILS.
  3. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.



All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024 File Name: 30322_Indy Trail Sheets(P&P_REV).dgn	0000 0000 0000	<b>Sheet Revisions</b>				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.	As Constructed No Revisions: Revised: Void:	<b>INDUSTRIAL LANE BIKEWAY PHASE 2</b> PLAN/PROFILE SHEETS STA: 161+35.00 TO 165+00.00		Project No./Code STU M145-013 23593					
	Horiz. Scale:                      Vert. Scale: As Noted Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments				Init.							
Date:	Comments	Init.														

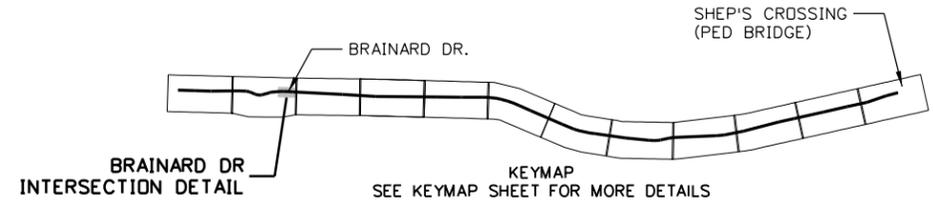
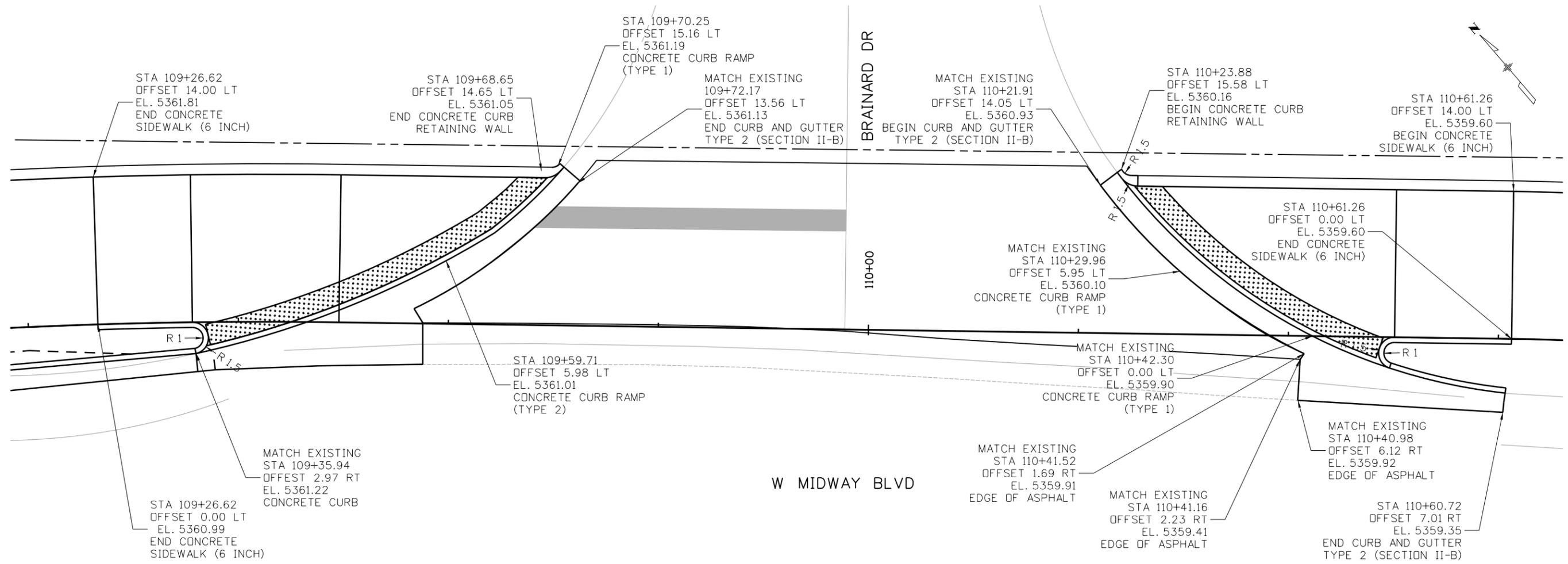
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NOTES:  
 1. SEE PLAN & PROFILE SHEETS FOR ADDITIONAL INFORMATION.  
 2. SEE RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024 File Name: 30322_Driveway-Intersections(P&P).dgn	<b>Sheet Revisions</b>				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	<b>INDUSTRIAL LANE BIKEWAY PHASE 2 INTERSECTION DETAIL FLATIRON CROSSING DR &amp; MIDWAY BLVD</b>		Project No./Code STU M145-013										
	Horiz. Scale: 1"=10'    Vert. Scale: As Noted	<table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments			Init.										No Revisions:	Designer: Z. CRIMMINS    Checker: D. DYER		23593
	Date:	Comments	Init.																	
Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Revised:	Detailer: Z. CRIMMINS		Sheet Number <b>47</b>																
Void:	Sheet Subset: INTERSECTION    Subset Sheets: 01 of 04	See Keymap Sheet for more details		Sheet Number <b>47</b>																

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All seals for this set of drawings are applied to the cover page(s)

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 Horiz. Scale: 1"=10' Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester Street  
 Suite 500  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
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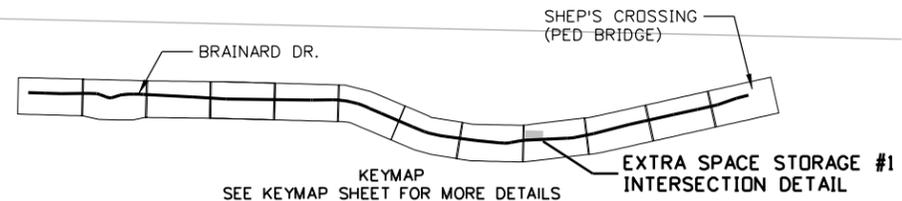
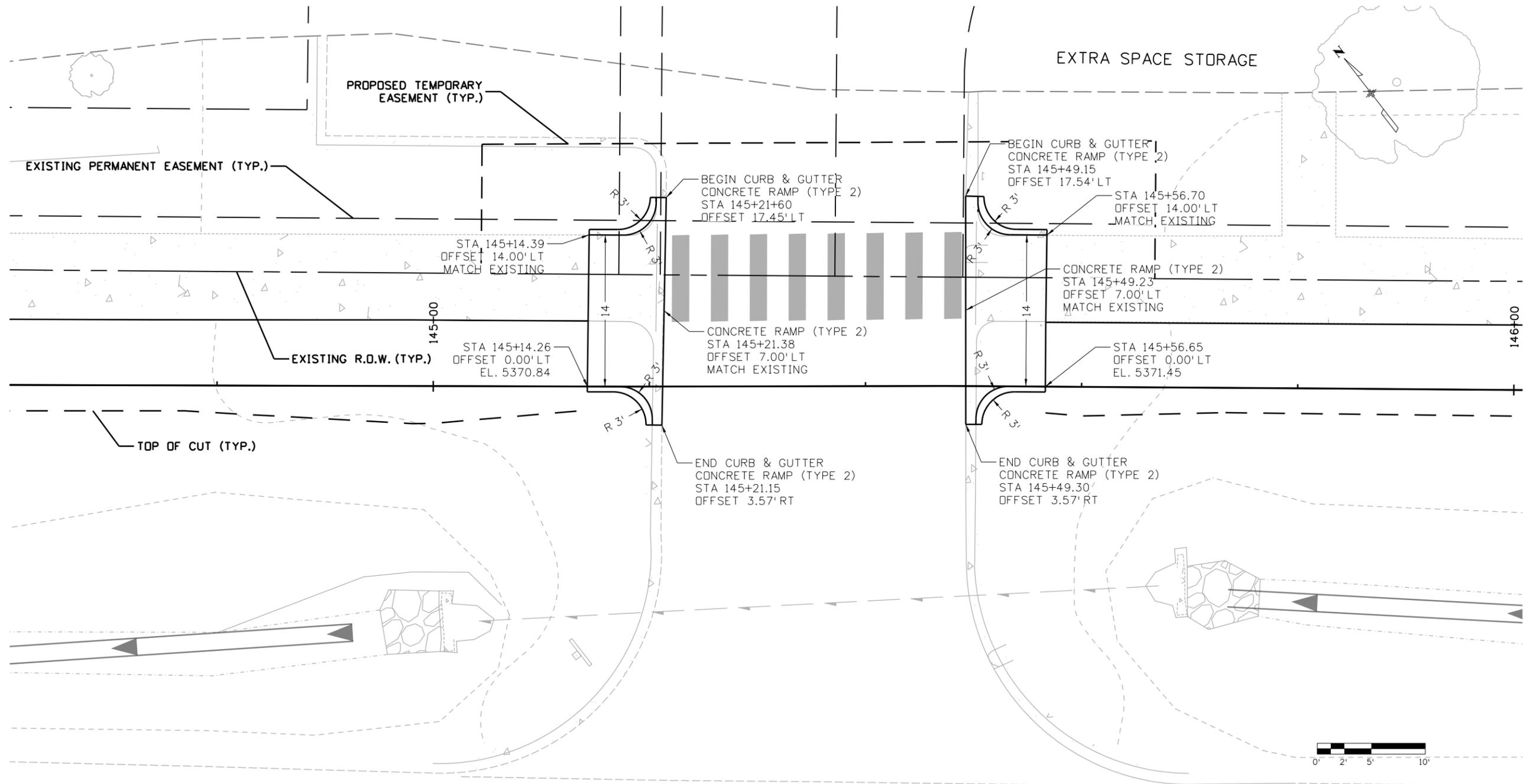
**INDUSTRIAL LANE BIKEWAY PHASE 2 INTERSECTION DETAIL**  
**BRAINARD DR & MIDWAY BLVD**

Designer: Z. CRIMMINS  
 Detailer: Z. CRIMMINS  
 Sheet Subset: INTERSECTION

Checker: D. DYER  
 Subset Sheets: 02 of 04

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **48**

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All seals for this set of drawings are applied to the cover page(s)

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 8000 South Chester Street  
 Suite 500  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



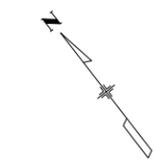
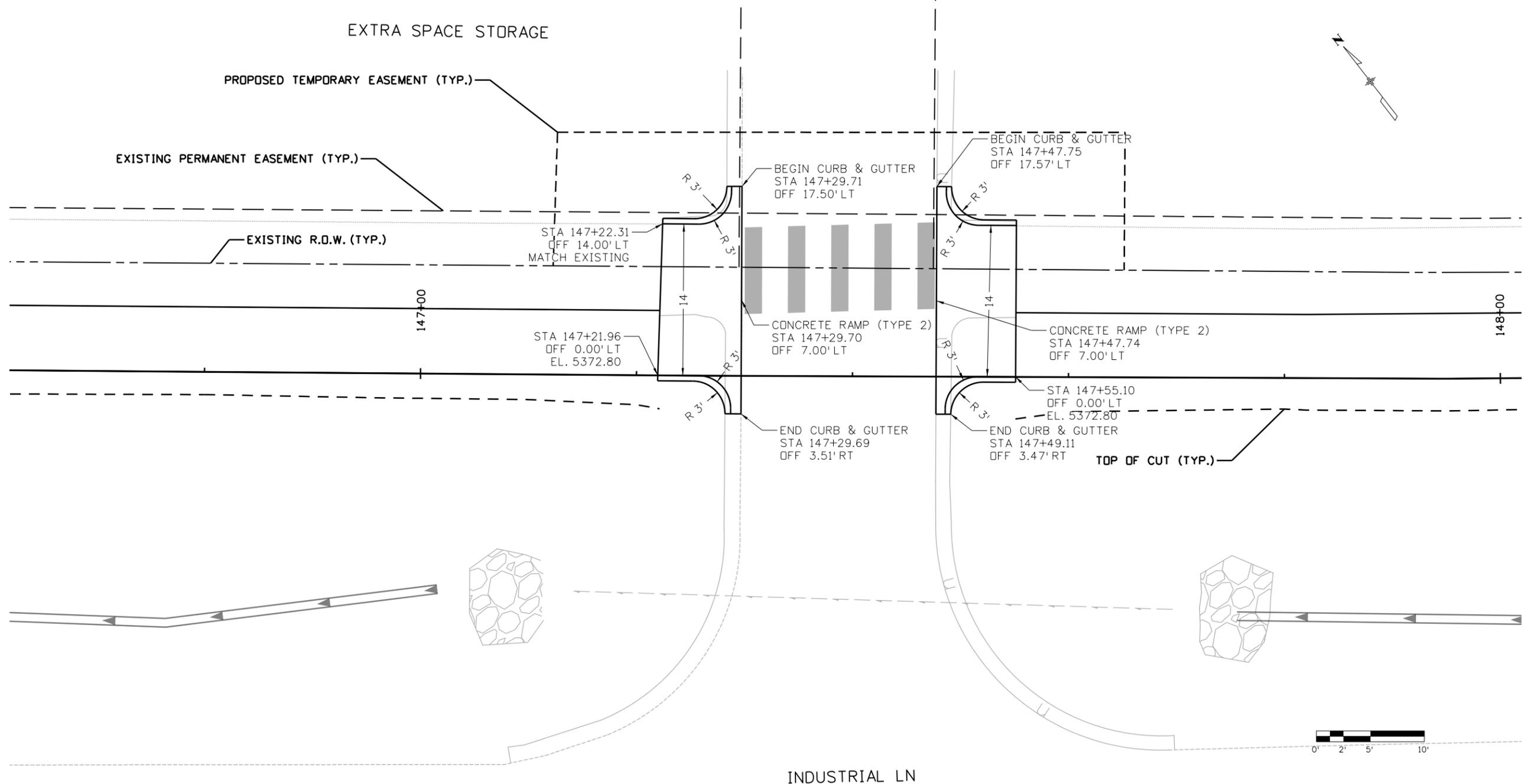
ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  
 CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 INTERSECTION DETAIL  
 EXTRA SPACE STORAGE #1**  
 Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: INTERSECTION  
 Subset Sheets: 03 of 04

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **49**

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KEYMAP  
SEE KEYMAP SHEET FOR MORE DETAILS

EXTRA SPACE STORAGE #2  
INTERSECTION DETAIL

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Print Date: 6/3/2024
File Name: 30322_Driveway-Intersections(P&P).dgn
Horiz. Scale: 1"=10'    Vert. Scale: As Noted
Unit Information
 Stanley Consultants Inc.
8000 South Chester Street Suite 500 Centennial, CO 80112 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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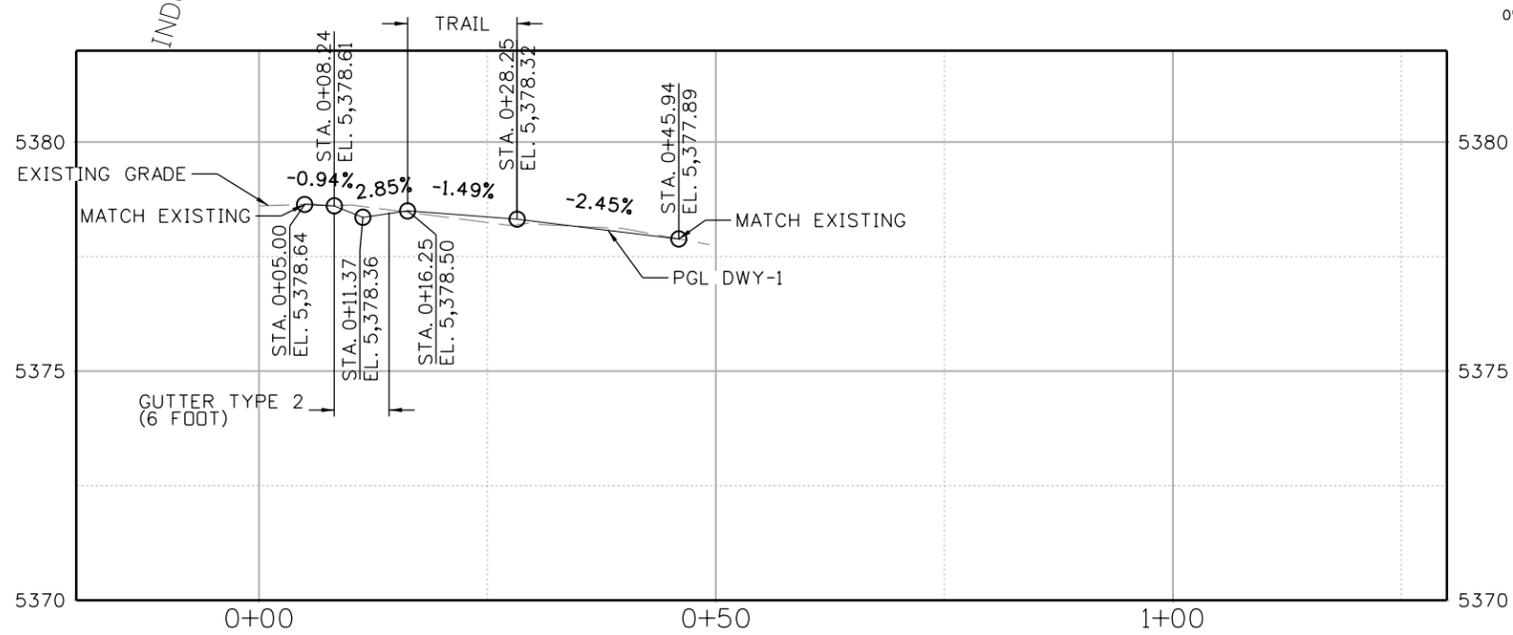
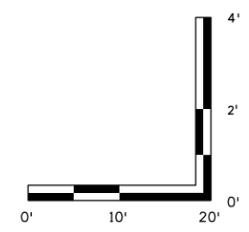
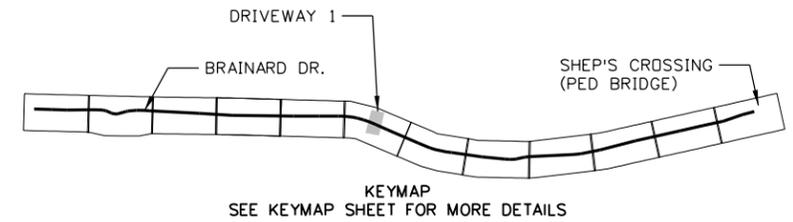
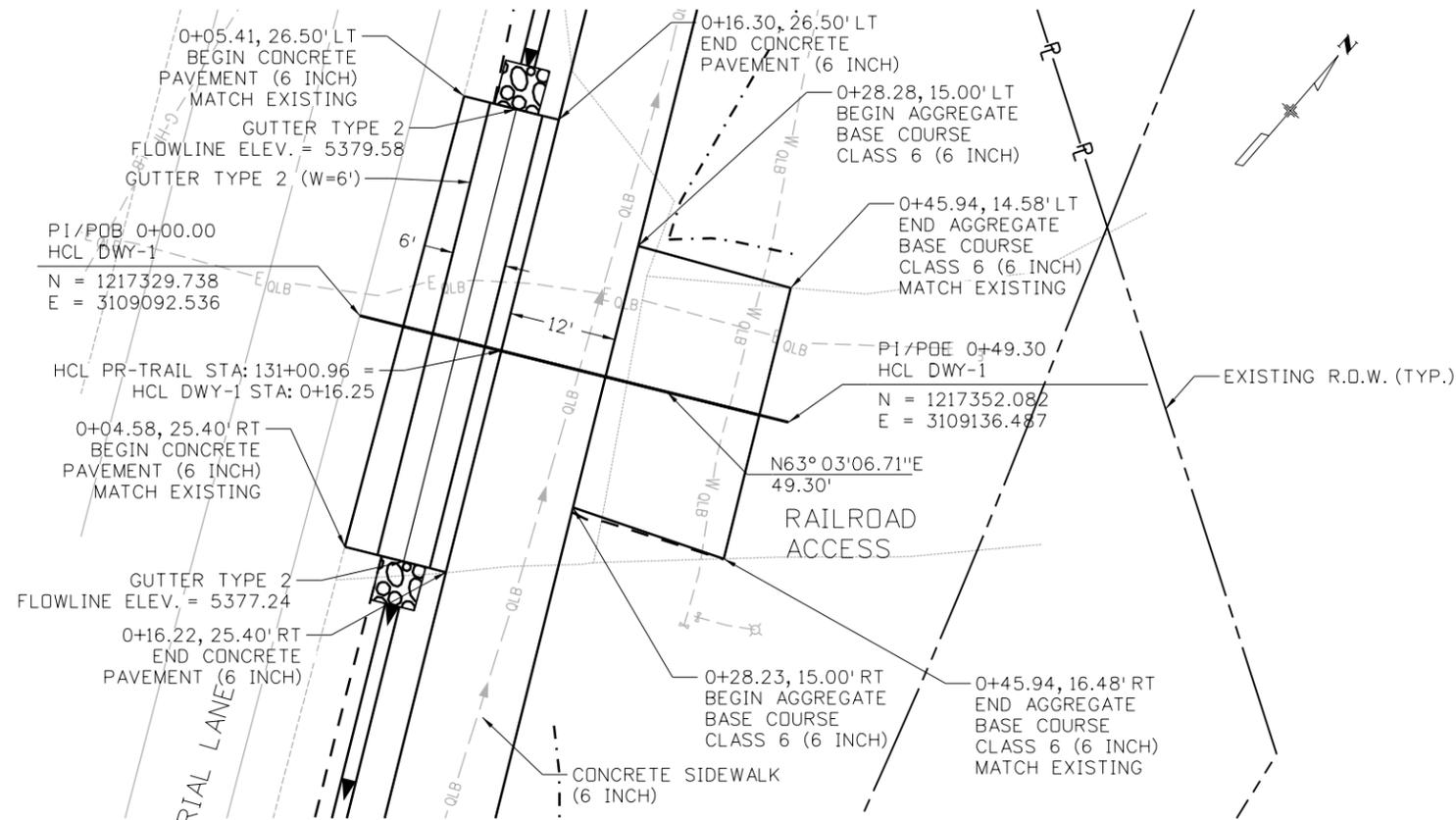
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As Constructed
No Revisions:
Revised:
Void:

INDUSTRIAL LANE BIKEWAY PHASE 2 INTERSECTION DETAIL EXTRA SPACE STORAGE #2			
Designer:	Z. CRIMMINS	Checker:	D. DYER
Detailer:	Z. CRIMMINS		
Sheet Subset:	INTERSECTION	Subset Sheets:	04 of 04

Project No./Code	STU M145-013
	23593
Sheet Number	50

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All seals for this set of drawings are applied to the cover page(s)

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Unit Information	XXX
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	

Sheet Revisions		
Date:	Comments	Init.



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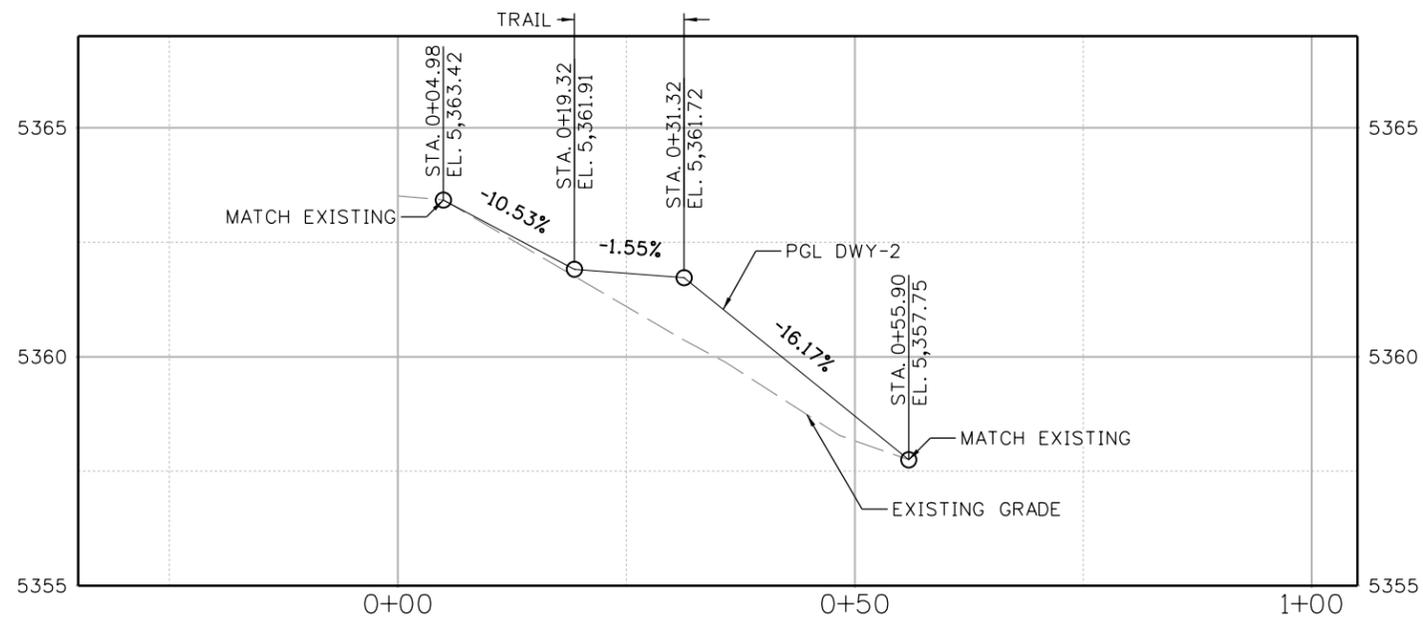
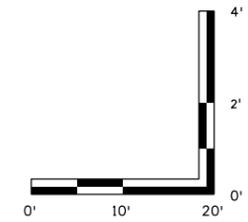
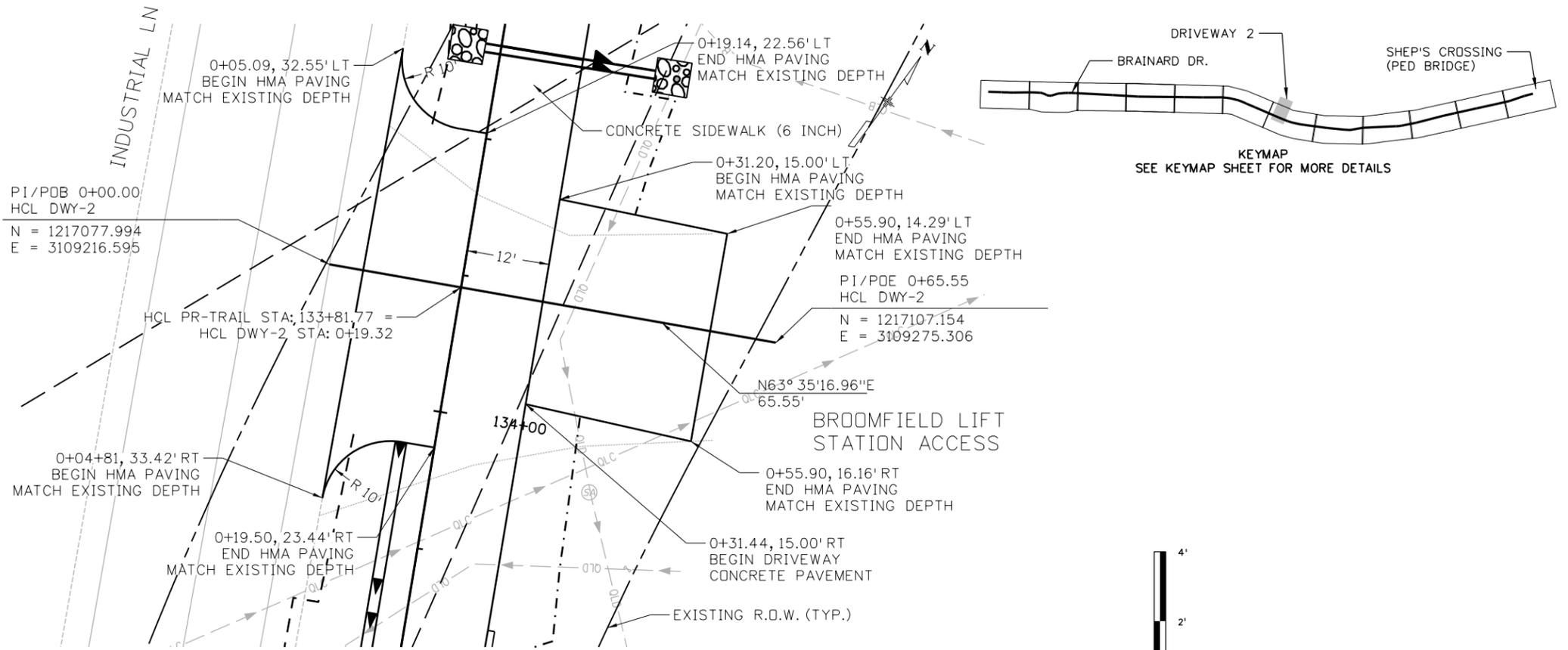
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed
No Revisions:
Revised:
Void:

INDUSTRIAL LANE BIKEWAY PHASE 2 DRIVEWAY 1 (RAILROAD ACCESS)			
Designer:	Z. CRIMMINS	Checker:	D. DYER
Detailer:	Z. CRIMMINS		
Sheet Subset:	DRIVEWAY	Subset Sheets:	01 of 08

Project No./Code	STU M145-013
Sheet Number	51

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CCOB ON DRIVEWAY GRADING

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File Name: 30322\_Driveway Details (P&P).dgn  
Horiz. Scale: 1"=20' Vert. Scale: As Noted  
Unit Information  
 8000 South Chester St.  
Suite 400  
Centennial, CO 80112  
Phone: 303-799-6806

Sheet Revisions

Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) DATE

As Constructed  
No Revisions:  
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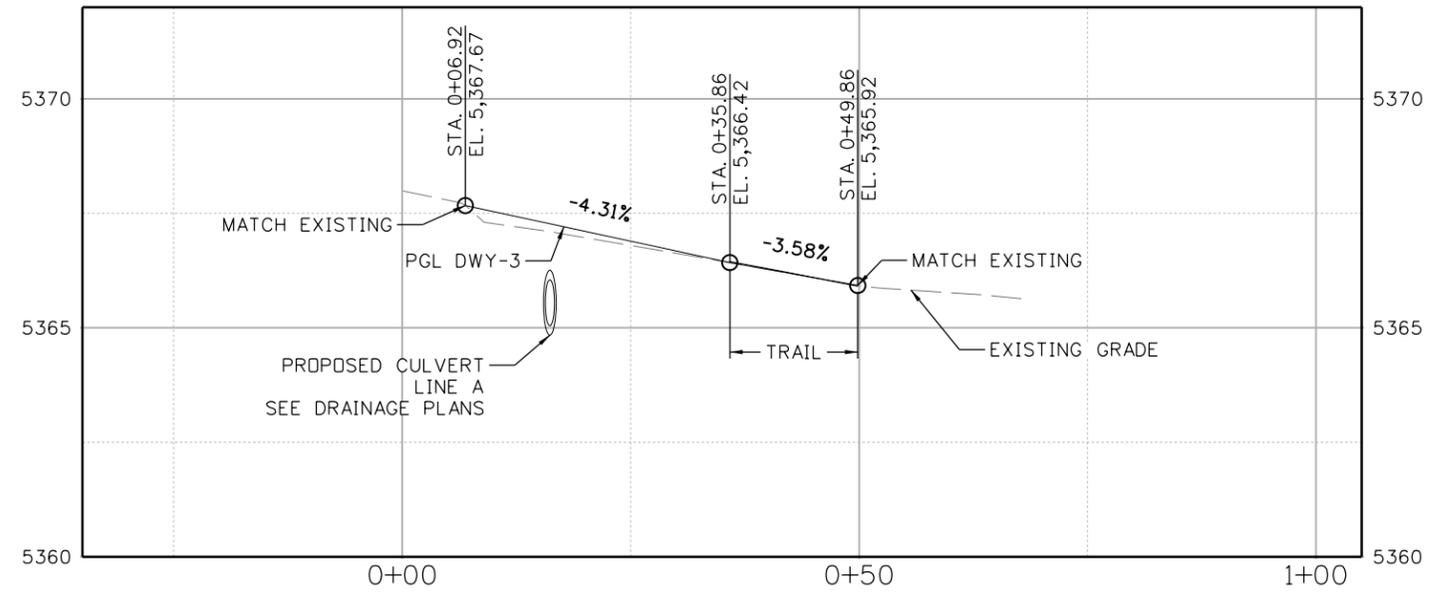
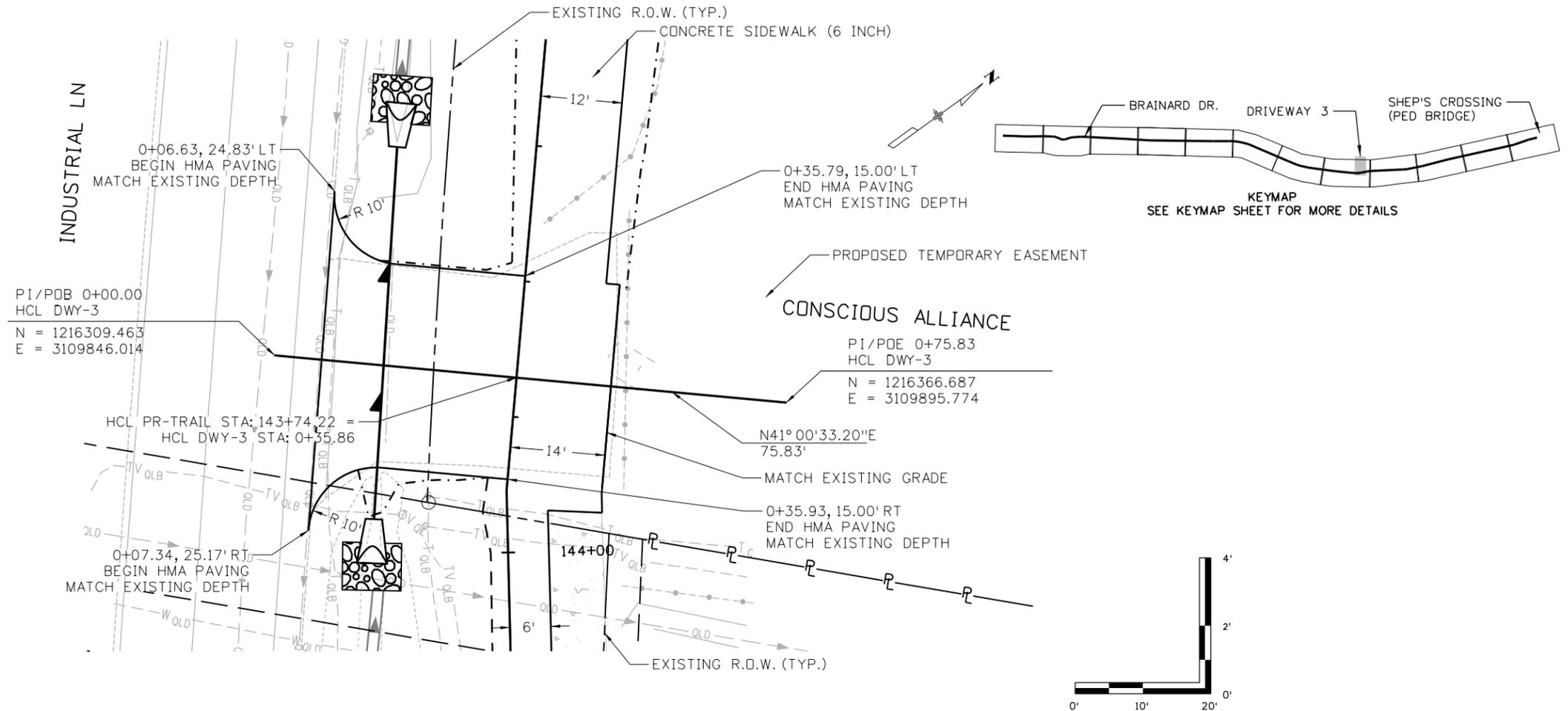
INDUSTRIAL LANE BIKEWAY PHASE 2  
DRIVEWAY 2  
(BROOMFIELD ACCESS)

Designer: Z. CRIMMINS  
Detailer: Z. CRIMMINS  
Sheet Subset: DRIVEWAY

Checker: D. DYER  
Subset Sheets: 02 of 08

Project No./Code  
STU M145-013  
23593  
Sheet Number **52**

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Print Date: 8/26/2024  
File Name: 30322\_Driveway Details (P&P).dgn  
Horiz. Scale: 1"=20' Vert. Scale: As Noted  
Unit Information

**Stanley Consultants inc.**  
8000 South Chester St.  
Suite 400  
Centennial, CO 80112  
Phone: 303-799-6806

Sheet Revisions		
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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

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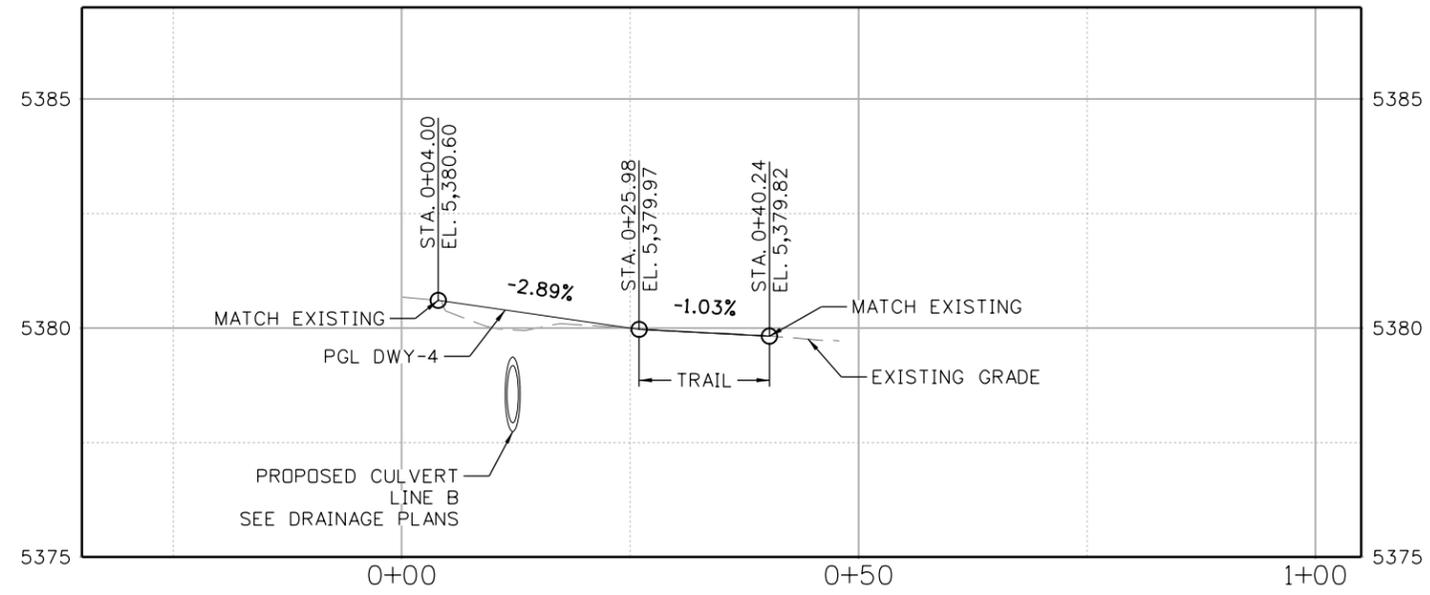
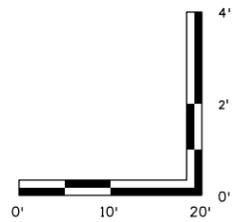
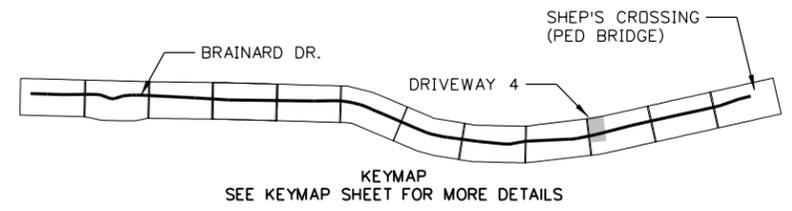
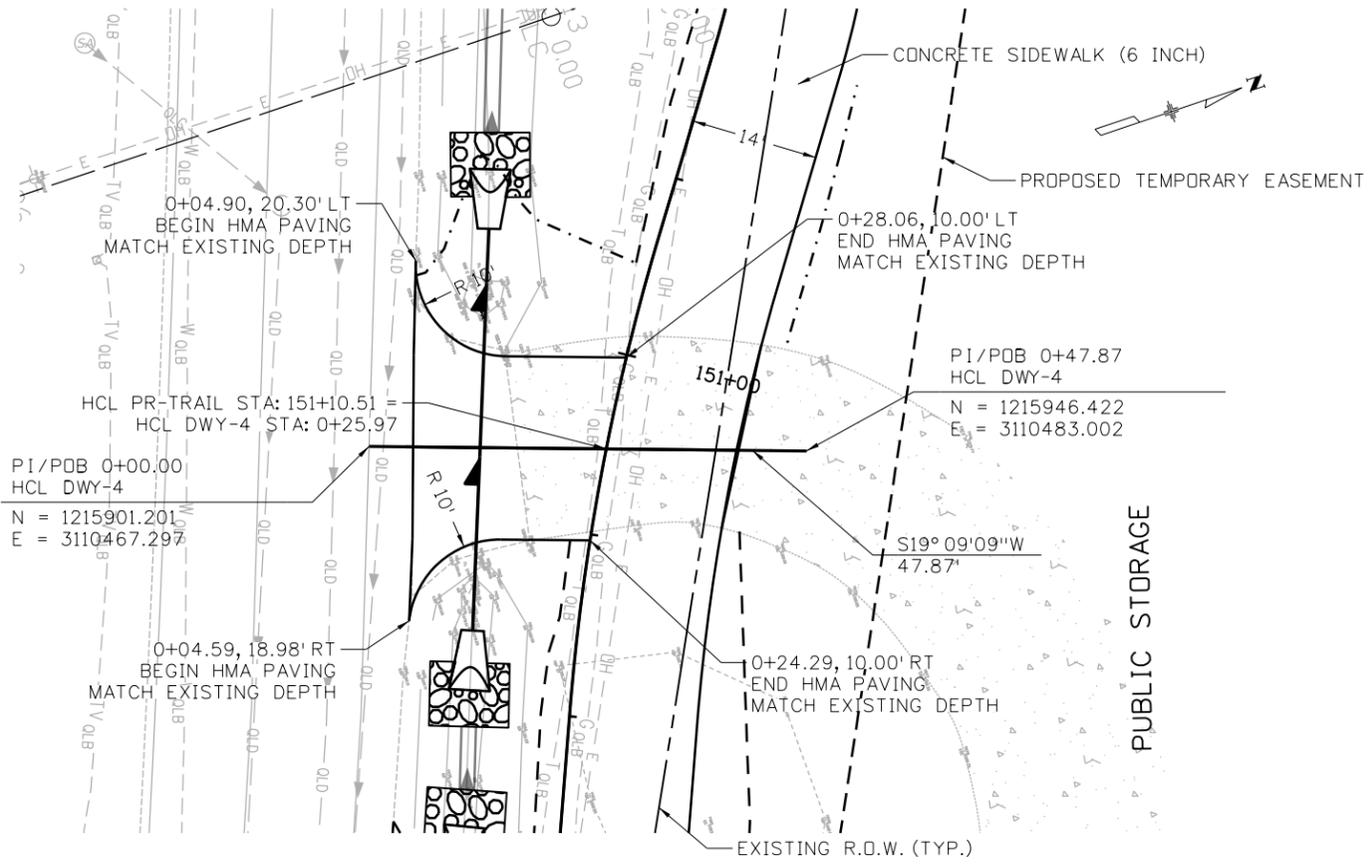
**INDUSTRIAL LANE BIKEWAY PHASE 2  
DRIVEWAY 3  
(CONSCIOUS ALLIANCE)**

Designer: Z. CRIMMINS  
Detailer: Z. CRIMMINS  
Sheet Subset: DRIVEWAY

Checker: D. DYER  
Subset Sheets: 03 of 08

Project No./Code  
STU M145-013  
23593  
Sheet Number **53**

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/26/2024  
File Name: 30322\_Driveway Details (P&P).dgn  
Horiz. Scale: 1"=20' Vert. Scale: As Noted  
Unit Information  
 Stanley Consultants inc.  
8000 South Chester St.  
Suite 400  
Centennial, CO 80112  
Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
No Revisions:  
Revised:  
Void:

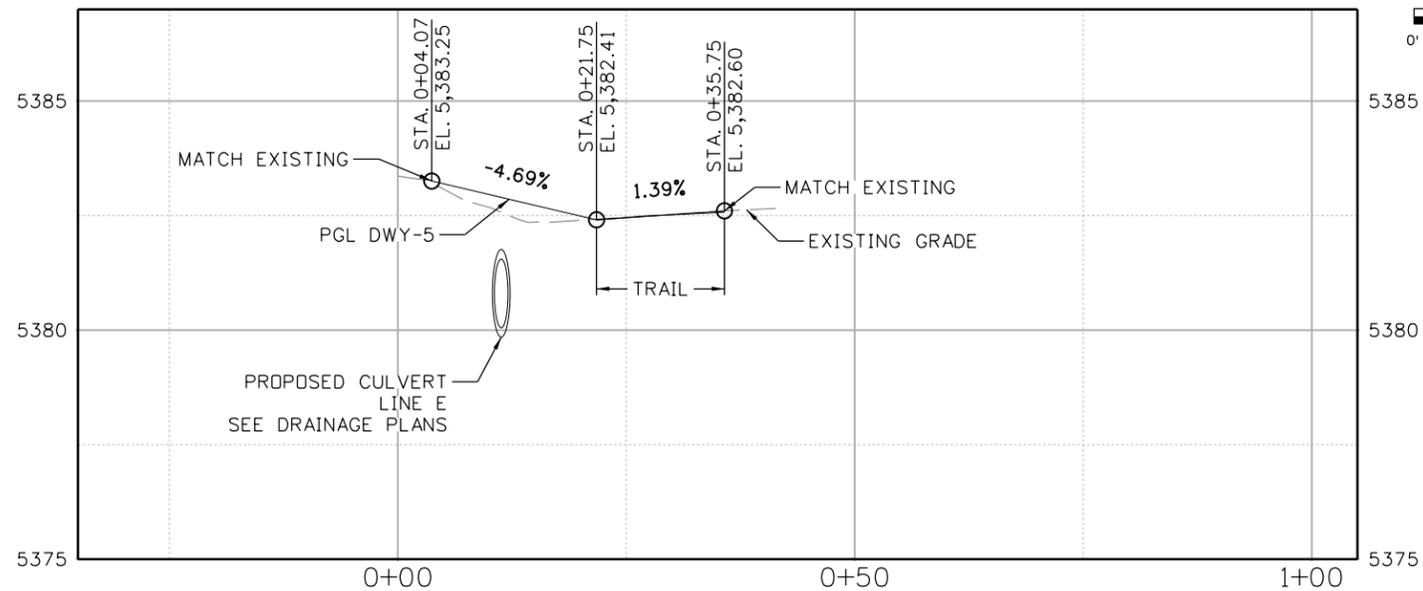
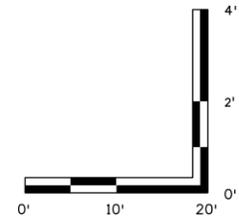
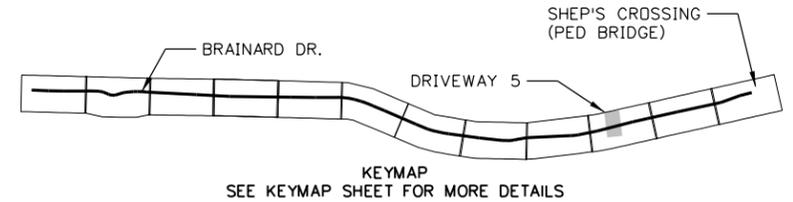
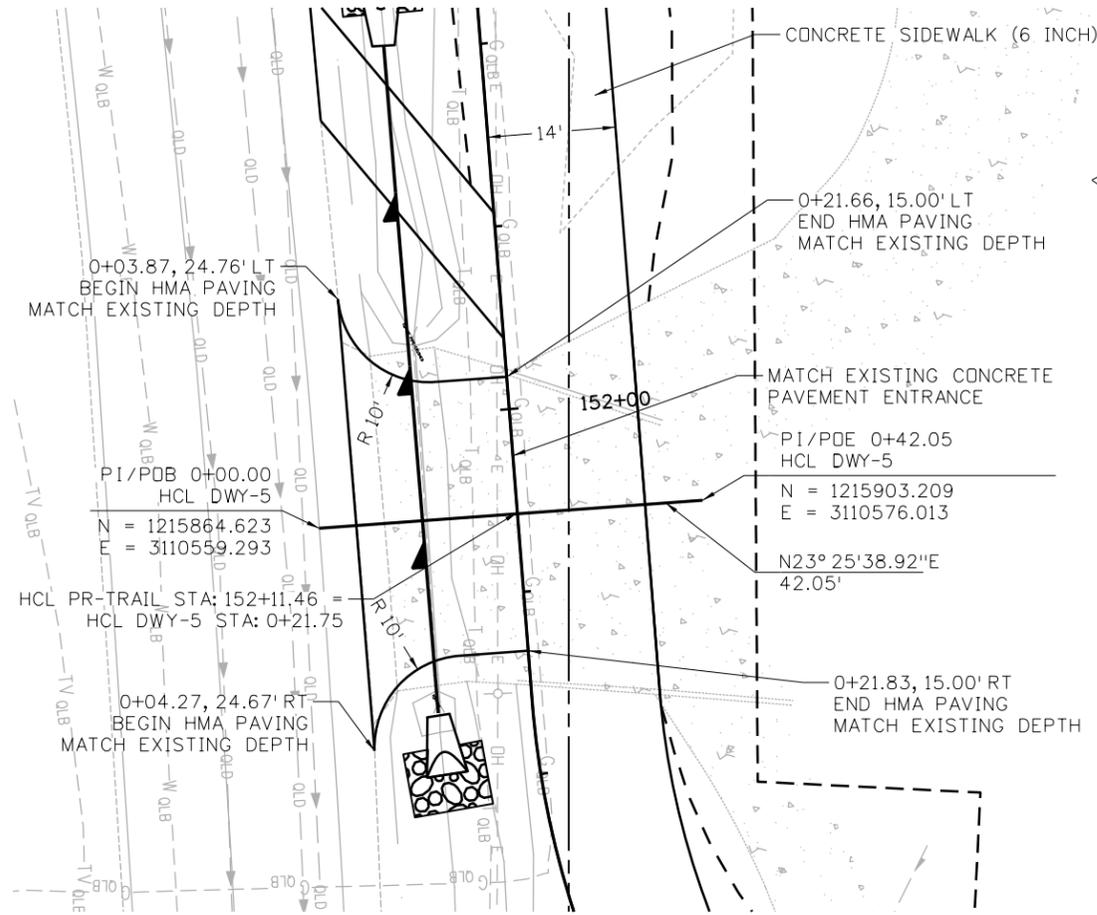
INDUSTRIAL LANE BIKEWAY PHASE 2  
DRIVEWAY 4  
(PUBLIC STORAGE ACCESS #1)

Designer: Z. CRIMMINS  
Detailer: Z. CRIMMINS  
Sheet Subset: DRIVEWAY

Checker: D. DYER  
Subset Sheets: 04 of 08

Project No./Code  
STU M145-013  
23593  
Sheet Number **54**

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Centennial, CO 80112  
Phone: 303-799-6806

Sheet Revisions

Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
No Revisions:  
Revised:  
Void:

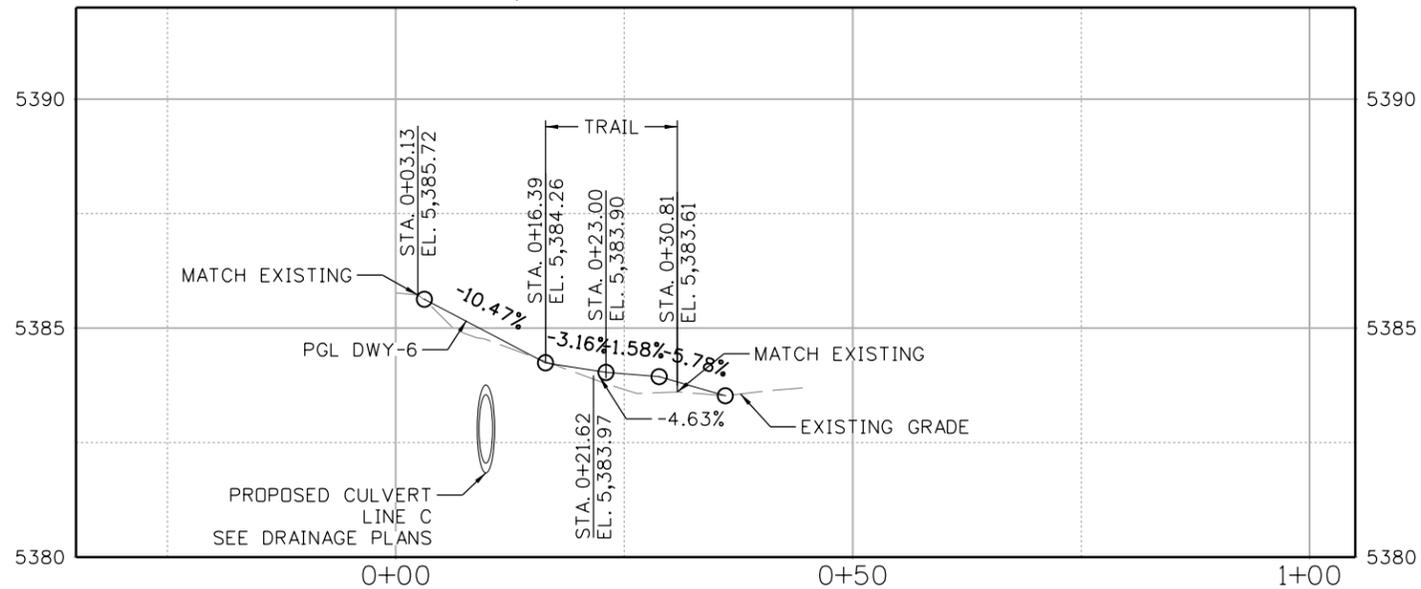
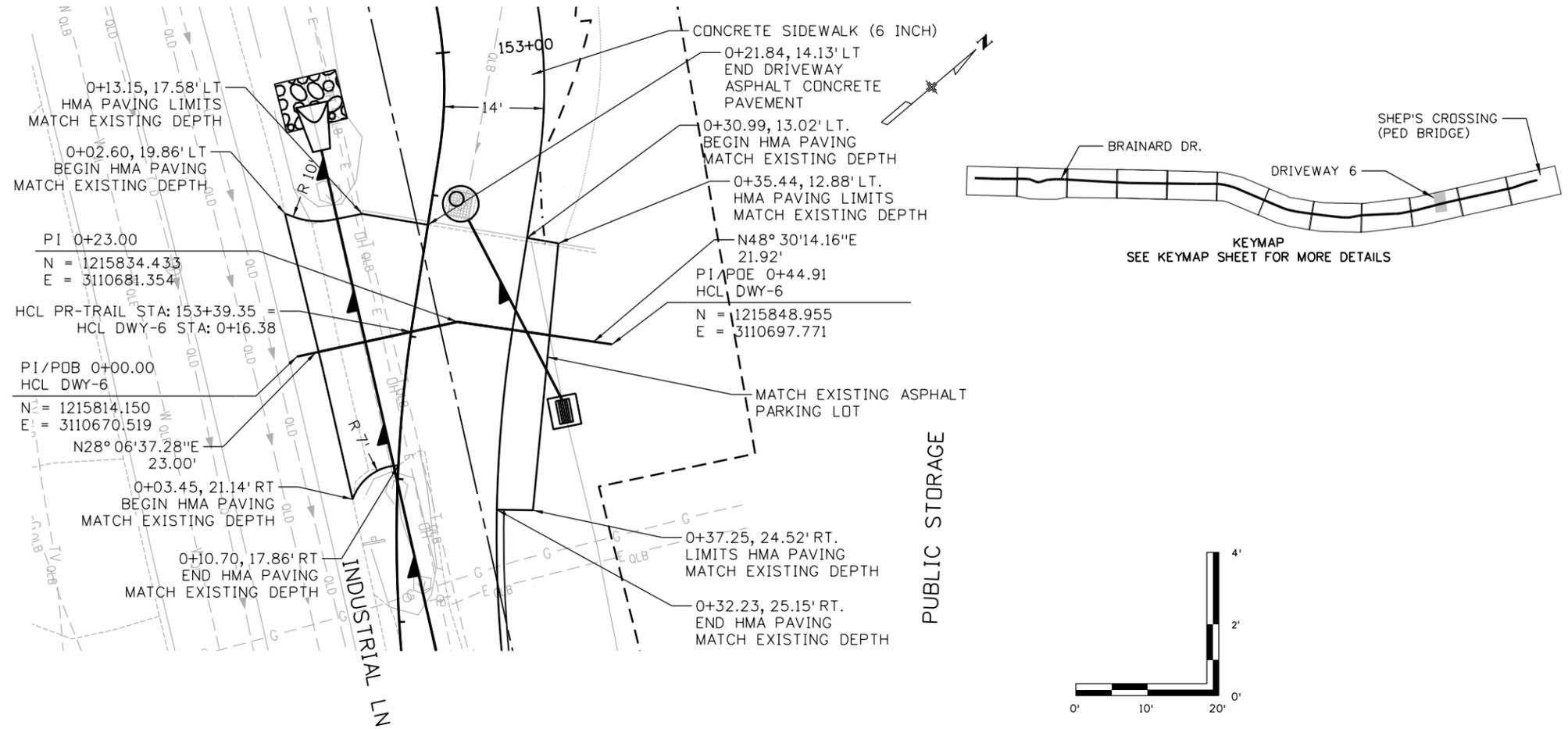
INDUSTRIAL LANE BIKEWAY PHASE 2  
DRIVEWAY 5  
(PUBLIC STORAGE ACCESS #2)

Designer: Z. CRIMMINS  
Detailer: Z. CRIMMINS  
Sheet Subset: DRIVEWAY

Checker: D. DYER  
Subset Sheets: 05 of 08

Project No./Code  
STU M145-013  
23593  
Sheet Number **55**

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 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

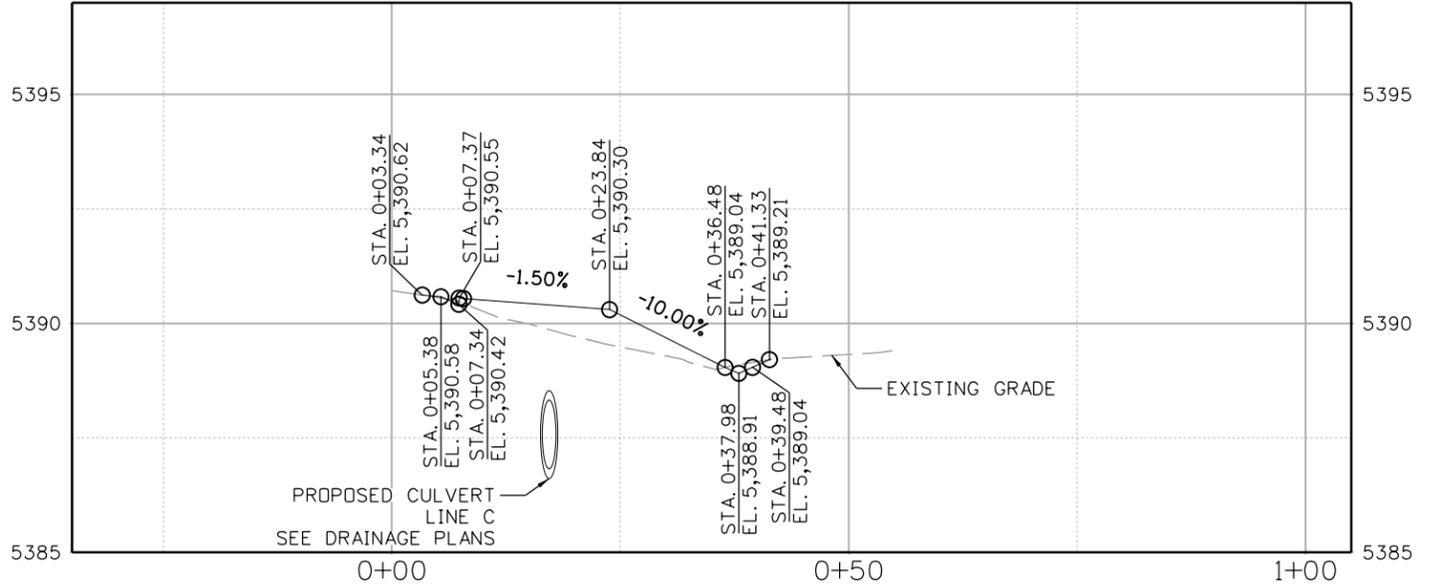
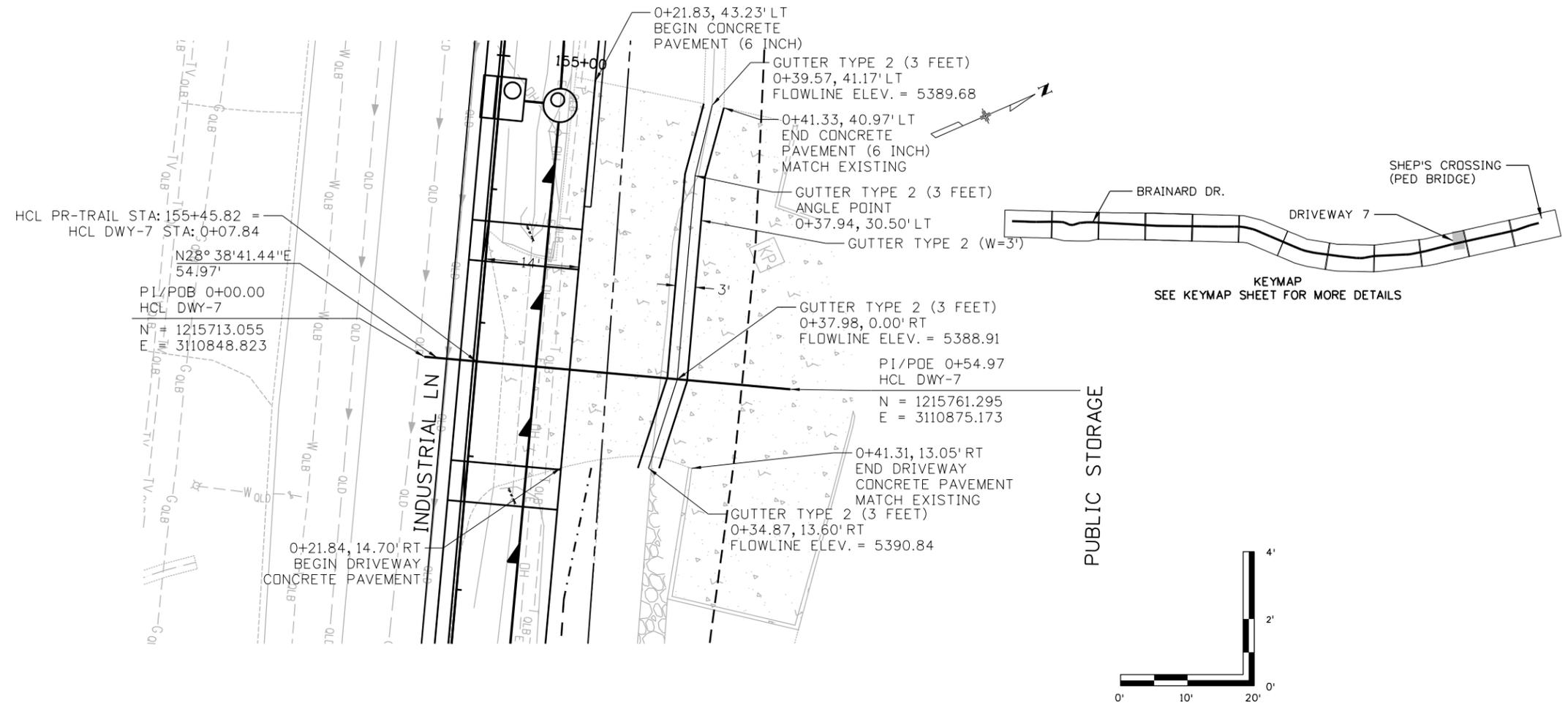
As Constructed  
 No Revisions:  
 Revised:  
 Void:

INDUSTRIAL LANE BIKEWAY PHASE 2  
 DRIVEWAY 6  
 (PUBLIC STORAGE ACCESS #3)

Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: DRIVEWAY  
 Subset Sheets: 06 of 08

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **56**

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 Horiz. Scale: 1"=20' Vert. Scale: As Noted  
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 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

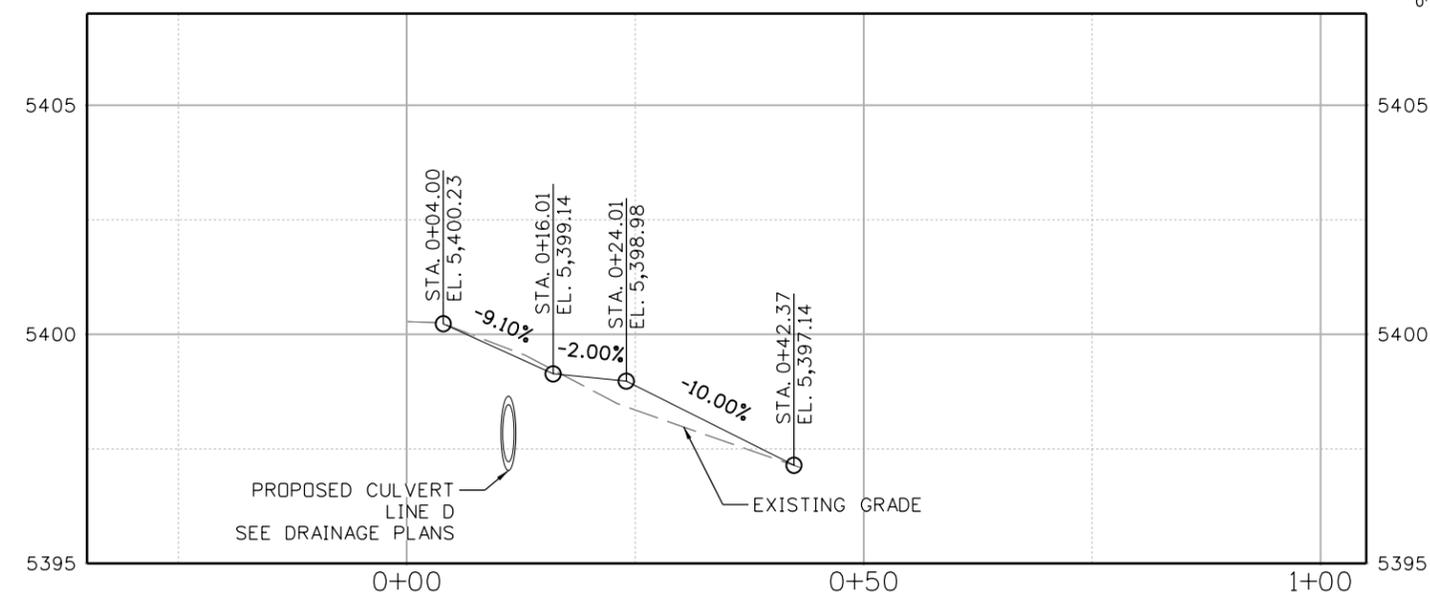
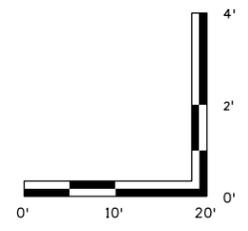
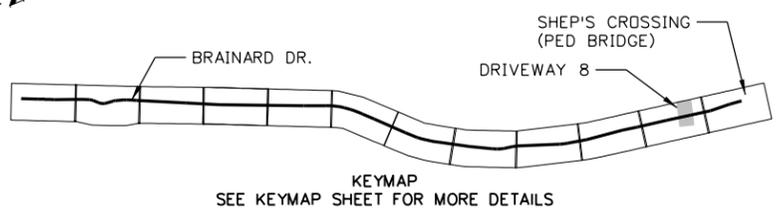
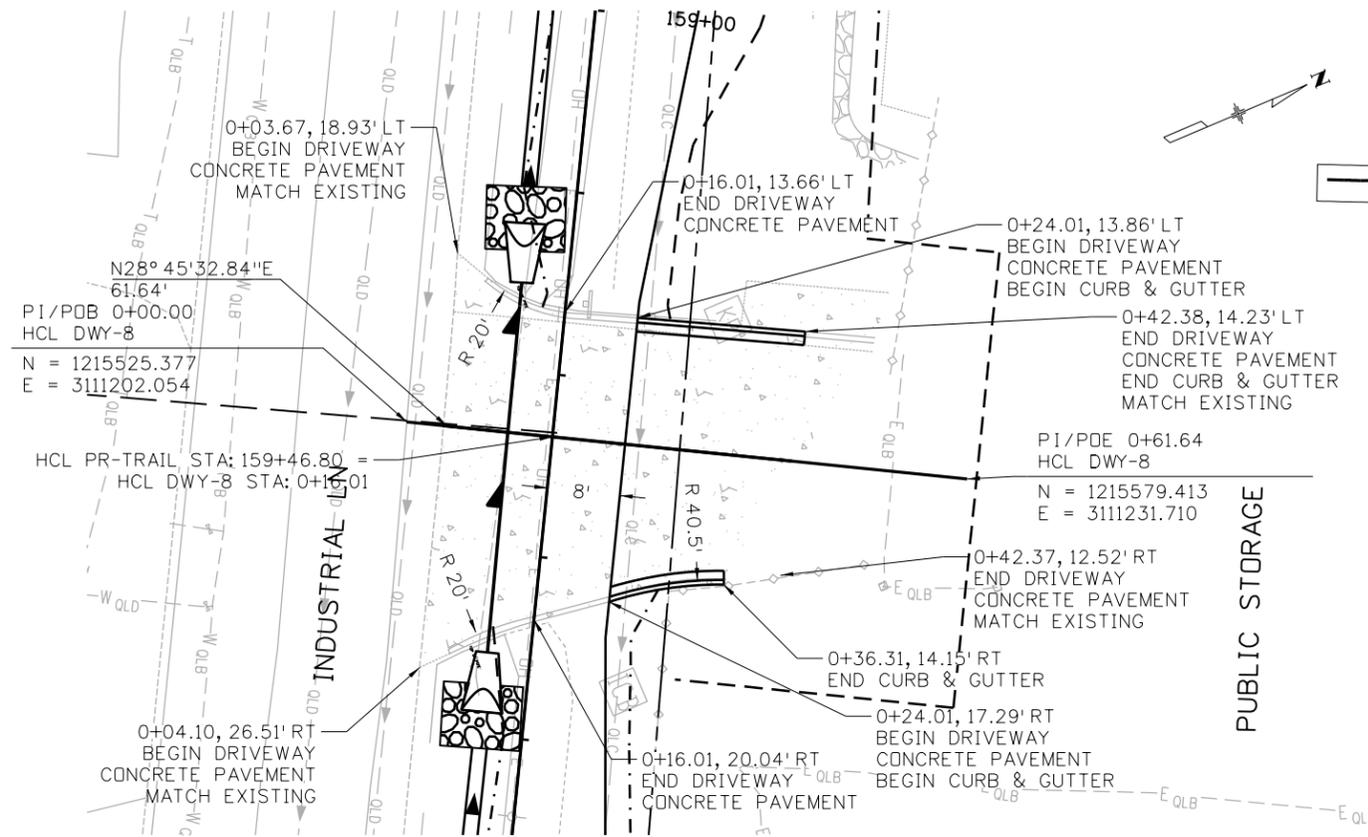
As Constructed  
 No Revisions:  
 Revised:  
 Void:

INDUSTRIAL LANE BIKEWAY PHASE 2  
 DRIVEWAY 7  
 (PUBLIC STORAGE ACCESS #4)

Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: DRIVEWAY  
 Subset Sheets: 07 of 08

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **57**

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All seals for this set of drawings are applied to the cover page(s)

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 Suite 400  
 Centennial, CO 80112  
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Sheet Revisions		
Date:	Comments	Init.



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As Constructed  
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 Revised:  
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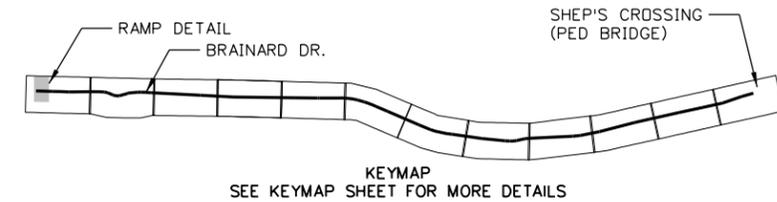
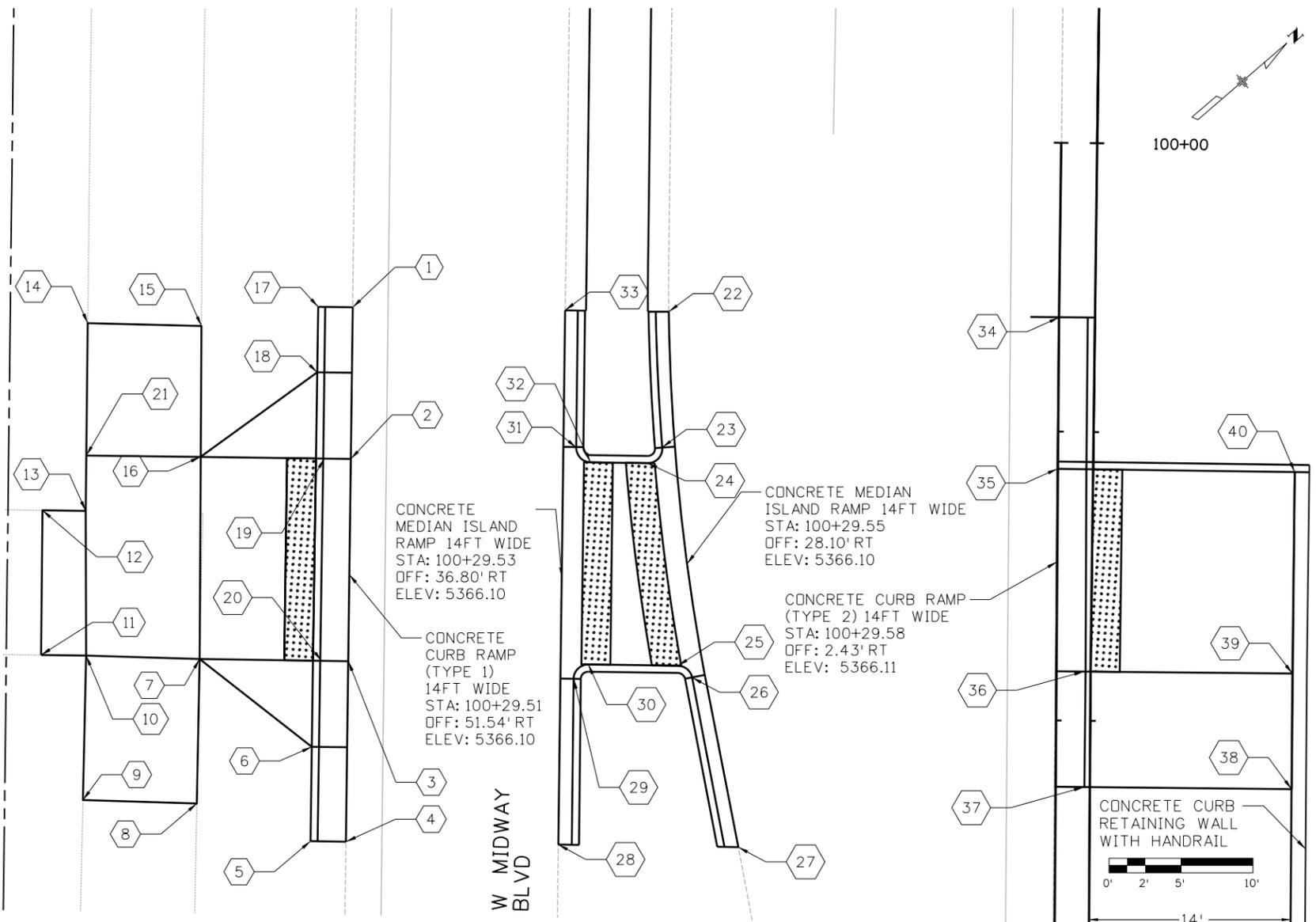
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 DRIVEWAY 8  
 (PUBLIC STORAGE ACCESS #5)**  
 Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: DRIVEWAY  
 Subset Sheets: 08 of 08

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **58**

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**CONTROL POINTS**

POINT	STATION AND OFFSET	ELEVATION	NOTES
1	100+12.01, 51.54' RT	5365.89	BEGIN CURB & GUTTER, MATCH EXISTING
2	100+22.51, 51.54' RT	5366.07	CURB & GUTTER PAN, MATCH EXISTING
3	100+36.51, 51.54' RT	5366.18	CURB & GUTTER PAN, MATCH EXISTING
4	100+48.72, 51.61' RT	5366.26	END CURB & GUTTER, MATCH EXISTING
5	100+48.70, 54.08' RT	5366.69	BACK OF CURB, MATCH EXISTING
6	100+42.17, 54.03' RT	5366.55	BACK OF CURB
7	100+36.50, 61.86' RT	5366.38	BACK OF RAMP
8	100+46.14, 61.98' RT	5366.61	END CONCRETE SIDEWALK, MATCH EXISTING
9	100+45.96, 69.90' RT	5366.43	END CONCRETE SIDEWALK, MATCH EXISTING
10	100+36.36, 69.75' RT	5366.14	BACK OF SIDEWALK
11	100+36.36, 72.87' RT	5366.65	SIDEWALK CONNECTION, MATCH EXISTING
12	100+26.34, 72.90' RT	5366.08	SIDEWALK CONNECTION, MATCH EXISTING
13	100+26.34, 69.90' RT	5366.00	BACK OF SIDEWALK
14	100+13.34, 69.92' RT	5365.98	BEGIN CONCRETE SIDEWALK, MATCH EXISTING
15	100+13.44, 62.03' RT	5366.25	BEGIN CONCRETE SIDEWALK, MATCH EXISTING
16	100+22.50, 61.98' RT	5366.10	BACK OF RAMP
17	100+12.01, 53.94' RT	5366.40	BACK OF CURB, MATCH EXISTING
18	100+16.52, 53.95' RT	5366.35	BACK OF CURB
19	100+22.51, 53.46' RT	5365.90	CURB FLOWLINE
20	100+36.51, 53.49' RT	5366.01	CURB FLOWLINE
21	100+22.51, 69.91' RT	5365.98	BACK OF SIDEWALK
22	100+12.04, 29.59' RT.	5366.18	BEGIN CURB & GUTTER, MATCH EXISTING
23	100+21.45, 29.94' RT	5366.31	CURB FLOWLINE
24	100+22.54, 30.93' RT	5366.35	BOTTOM OF CURB
25	100+36.54, 28.64' RT	5366.48	BOTTOM OF CURB
26	100+37.18, 27.67' RT	5366.44	CURB FLOWLINE
27	100+48.91, 24.38' RT	5366.49	END CURB & GUTTER, MATCH EXISTING
28	100+48.82, 36.88' RT	5366.60	END CURB & GUTTER, MATCH EXISTING
29	100+37.33, 35.89' RT	5366.54	CURB FLOWLINE
30	100+36.53, 34.88' RT	5366.58	BOTTOM OF CURB
31	100+21.49, 35.90' RT	5366.39	CURB FLOWLINE
32	100+22.53, 34.90' RT	5366.43	BOTTOM OF CURB
33	100+12.03, 36.79' RT	5366.26	BEGIN CURB & GUTTER, MATCH EXISTING
34	100+12.10, 2.50' RT	5365.54	BEGIN CURB & GUTTER, MATCH EXISTING
35	100+22.58, 2.50' RT	5365.66	CURB & GUTTER PAN
36	100+36.59, 2.50' RT	5365.89	CURB & GUTTER PAN
37	100+44.60, 2.50' RT	5366.00	CURB & GUTTER PAN
38	100+44.63, 14.00' LT	5366.55	BACK OF TRAIL
39	100+36.63, 14.00' LT	5366.02	BACK OF TRAIL
40	100+22.60, 14.00' LT	5365.79	BEGIN CONCRETE SIDEWALK, CONCRETE RETAINING WALL

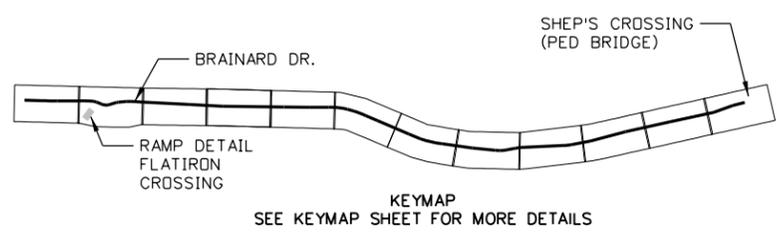
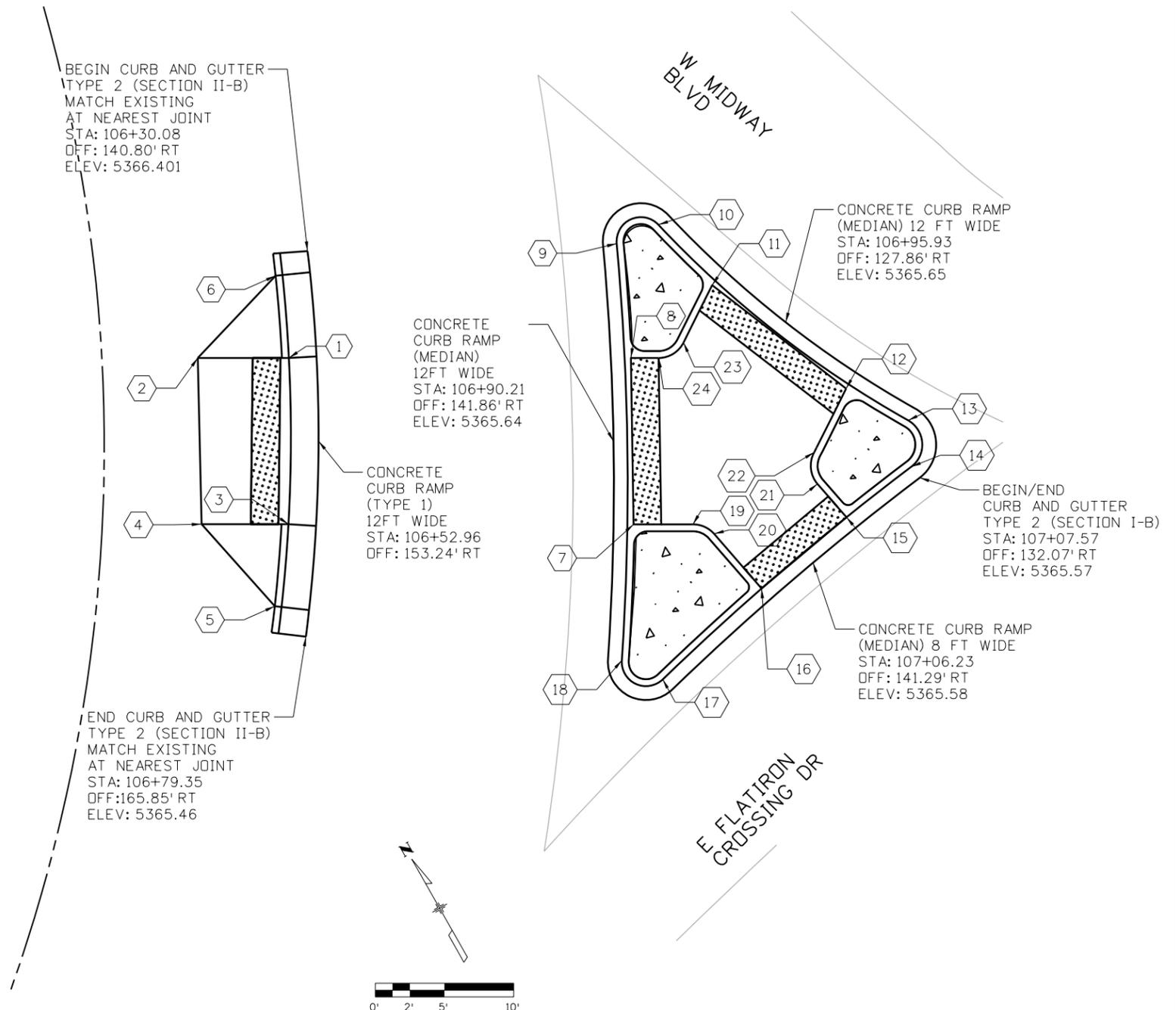


All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/26/2024 File Name: 30322_Driveway-Intersections(P&P).dgn Horiz. Scale: 1"=10'    Vert. Scale: As Noted	<b>Sheet Revisions</b> <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments	Init.										ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2 RTD CROSSING RAMP DETAILS	Project No./Code STU M145-013
	Date:	Comments	Init.															
Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	No Revisions:	Designer: Z. CRIMMINS    Checker: D. DYER	23593															
Revised:	Detailer: Z. CRIMMINS	Sheet Subset: RAMP    Subset Sheets: 01 of 03	Sheet Number <b>59</b>															
Void:	Void:	Void:	Void:															

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CONTROL POINTS

POINT	STATION AND OFFSET	ELEVATION	NOTES
1	106+35.09, 148.51' RT	5368.76	CURB & GUTTER FLOWLINE
2	106+10.19, 150.47' RT	5369.65	MATCH EXISTING SIDEWALK
3	106+56.10, 159.51' RT	5369.17	CURB & GUTTER FLOWLINE
4	106+26.52, 161.94' RT	5369.97	MATCH EXISTING SIDEWALK
5	106+66.38, 165.19' RT	5369.67	BACK OF CURB
6	106+24.48, 143.24' RT	5369.09	BACK OF CURB
7	106+94.72, 146.08' RT	5365.66	-
8	106+87.97, 136.15' RT	5365.60	-
9	106+82.59, 129.81' RT	5365.51	-
10	106+84.37, 127.02' RT	5365.54	-
11	106+90.01, 128.54' RT	5365.64	-
12	107+02.20, 129.47' RT	5365.47	-
13	107+06.31, 128.94' RT	5365.58	-
14	107+07.18, 131.63' RT	5365.57	-
15	107+06.33, 137.23' RT	5365.58	-
16	107+05.00, 144.88' RT	5365.59	-
17	107+02.61, 154.28' RT	5365.61	-
18	106+99.38, 154.75' RT	5365.63	-
19	106+98.30, 143.73' RT	5365.64	-
20	106+99.96, 143.46' RT	5365.62	-
21	107+04.24, 136.36' RT	5365.59	-
22	107+02.77, 134.40' RT	5365.60	-
23	106+90.55, 133.14' RT	5365.64	-
24	106+89.66, 135.05' RT	5365.63	-



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 No Revisions:  
 Revised:  
 Void:

INDUSTRIAL LANE BIKEWAY PHASE 2  
 RAMP DETAIL FLATIRON  
 CROSSING DR & MIDWAY BLVD

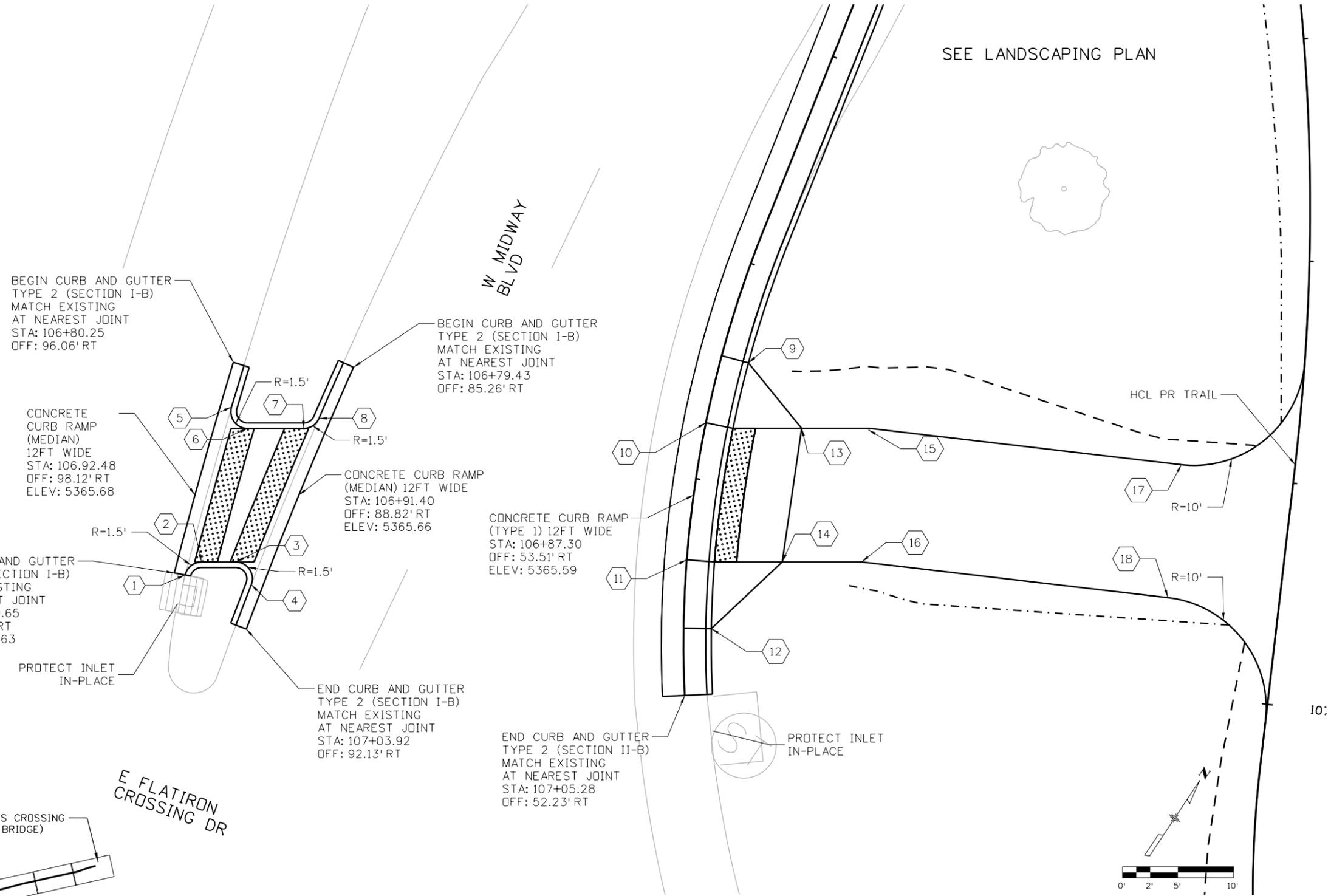
Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: RAMP  
 Subset Sheets: 02 of 03

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **60**

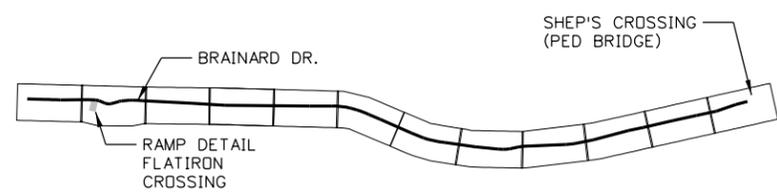
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**CONTROL POINTS**

POINT	STATION AND OFFSET	ELEVATION
①	106+99.72, 98.16' RT	5367.77
②	106+98.40, 96.85' RT	5367.91
③	106+98.04, 93.78' RT	5367.92
④	106+99.90, 92.15' RT	5367.85
⑤	106+84.25, 95.76' RT	5367.31
⑥	106+86.00, 94.11' RT	5367.31
⑦	106+85.41, 89.08' RT	5368.17
⑧	106+84.35, 87.82' RT	5368.16
⑨	106+73.80, 49.94' RT	5368.11
⑩	106+81.06, 51.21' RT	5367.69
⑪	106+93.11, 51.45' RT	5367.63
⑫	106+99.03, 50.53' RT	5367.43
⑬	106+80.22, 44.54' RT	5367.74
⑭	106+92.34, 44.88' RT	5367.68
⑮	106+79.51, 38.47' RT	5367.19
⑯	106+91.51, 37.78' RT	5367.36
⑰	106+79.51, 10.21' RT	5365.83
⑱	106+91.51, 10.00' RT	5366.01



SEE LANDSCAPING PLAN



**KEYMAP**  
SEE KEYMAP SHEET FOR MORE DETAILS



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Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

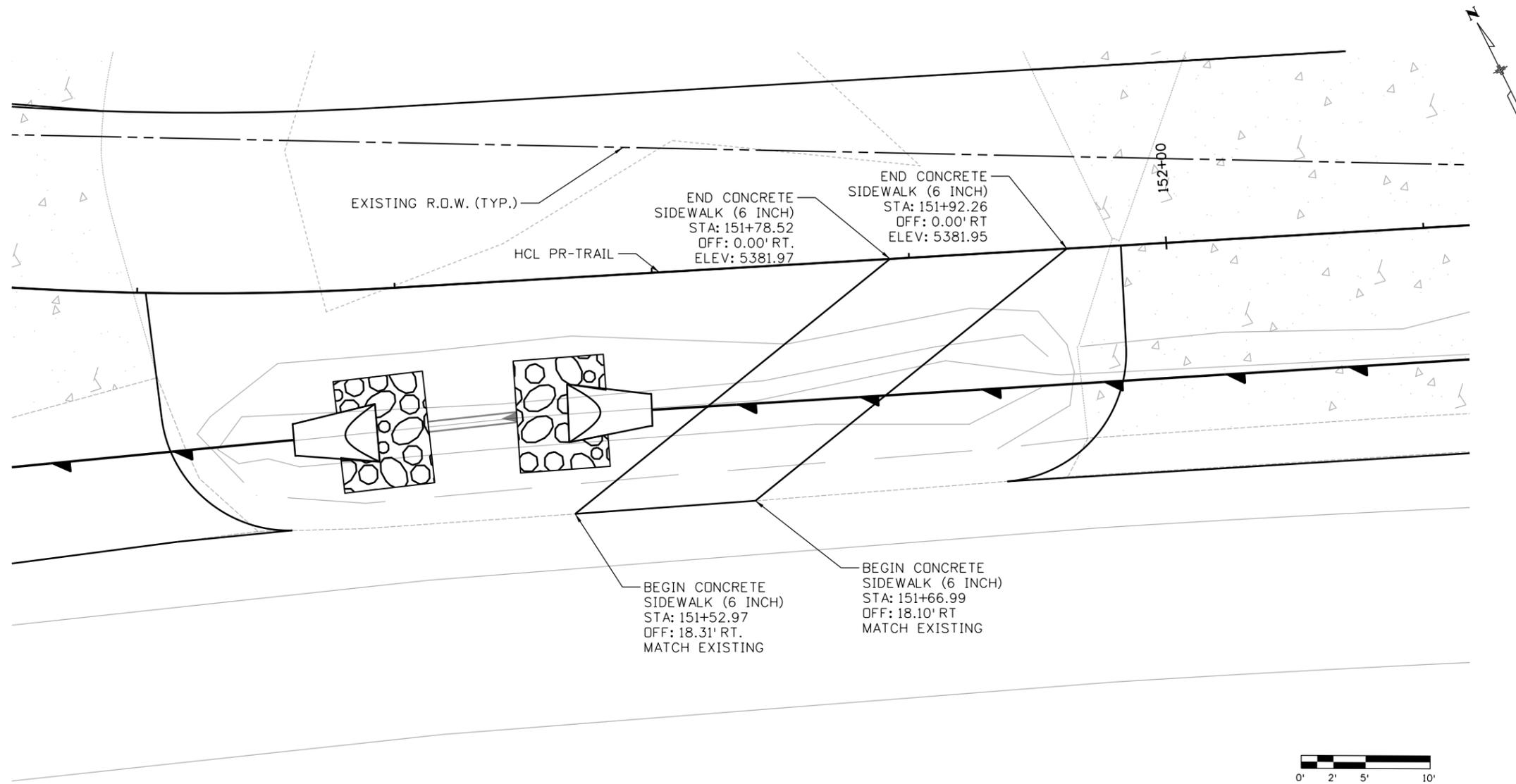
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**INDUSTRIAL LANE BIKEWAY PHASE 2**  
**RAMP DETAIL FLATIRON**  
**CROSSING DR & MIDWAY BLVD**

Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: RAMP  
 Subset Sheets: 03 of 03

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **61**

10:35 1:55:42 PM p:\sc1-p\W\NTEG-2.stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2\11-CADD\Worksheets\30322.01\DGNS\Design\Sheets\30322\_Driveway-Intersections(P&P).dgn



All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/26/2024  
 File Name: 30322\_Driveway-Intersections(P&P).dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

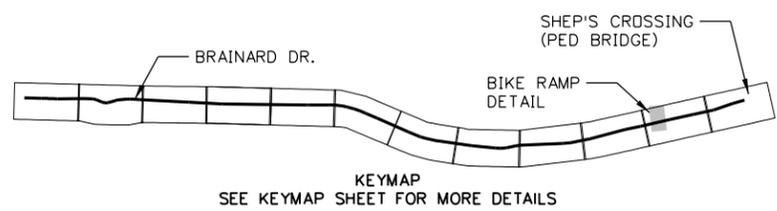
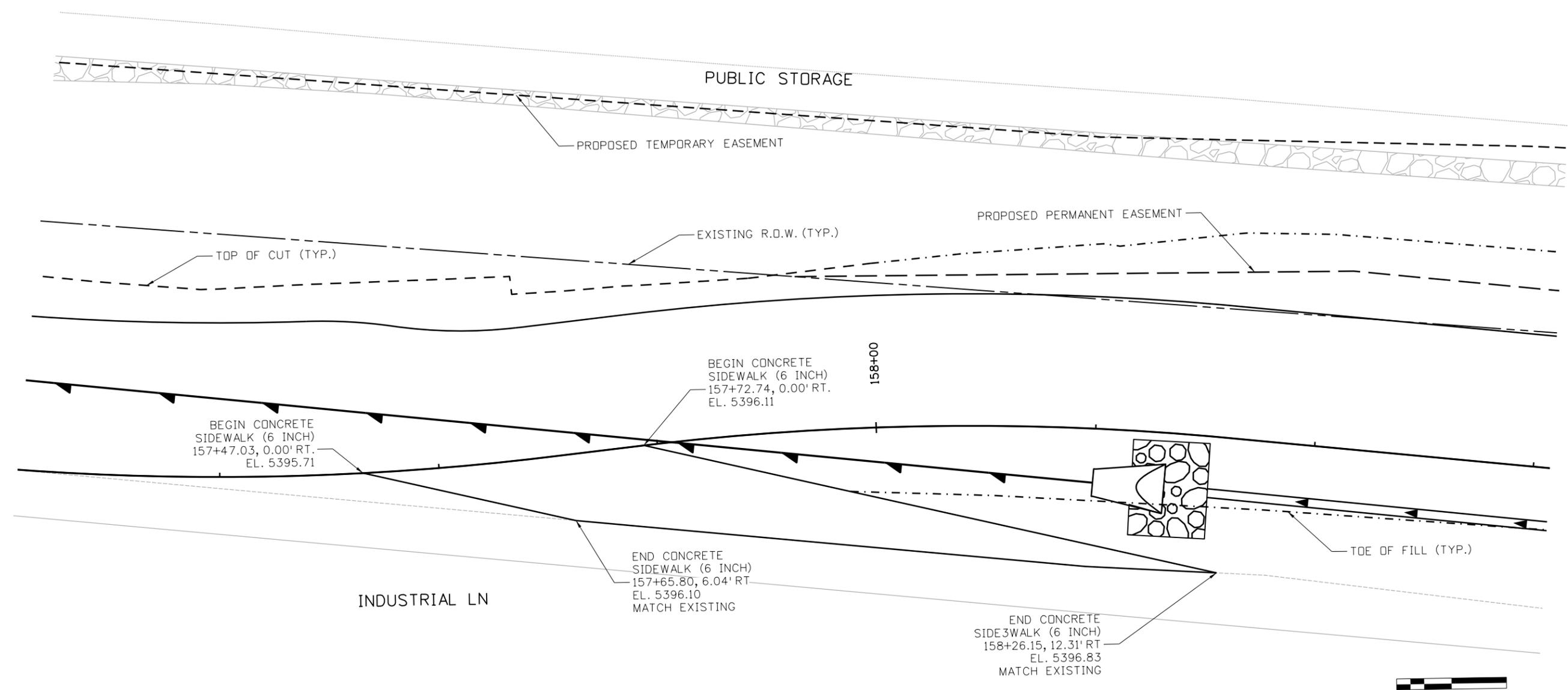
As Constructed  
 No Revisions:  
 Revised:  
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 BIKE RAMP 1 DETAIL**

Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: BIKE RAMP  
 Subset Sheets: 01 of 02

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **62**

10:35 1:55:46 PM p:\SCI-PW\INTEG-2.stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2\11-CADD\Worksheets\30322.01\DCNs\Design\Sheets\30322\_Driveway-Intersections(P&P).dgn



All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/26/2024  
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 Horiz. Scale: 1"=10' Vert. Scale: As Noted  
 Unit Information  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
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**INDUSTRIAL LANE BIKEWAY PHASE 2**  
**BIKE RAMP 2 DETAIL**

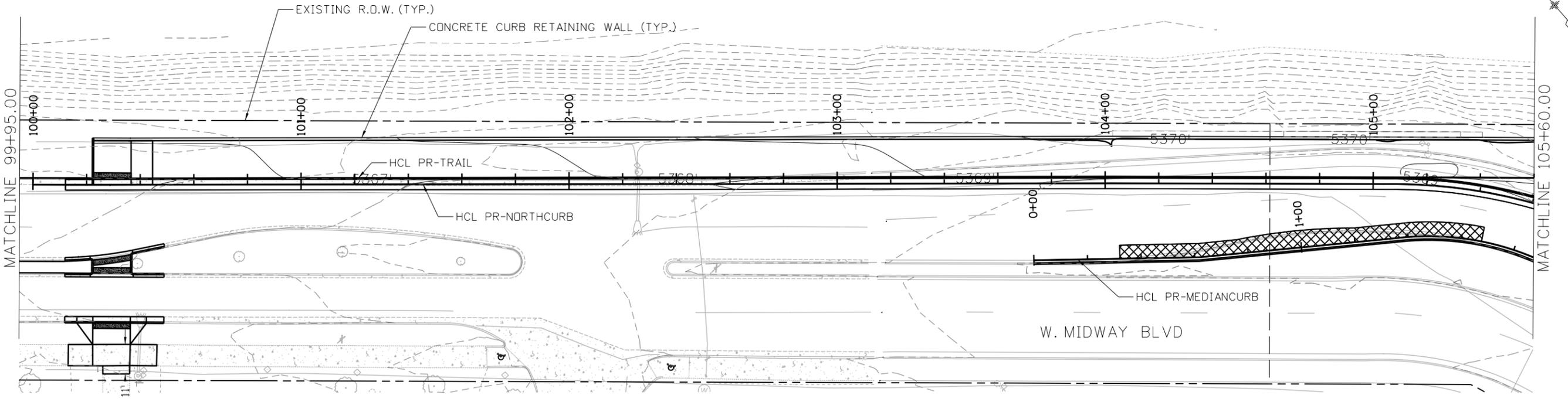
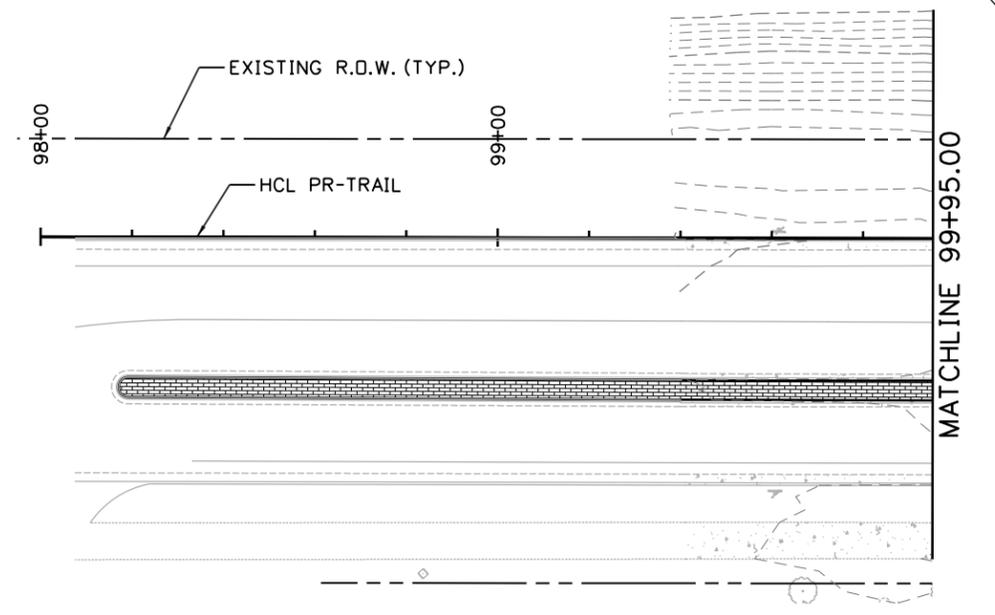
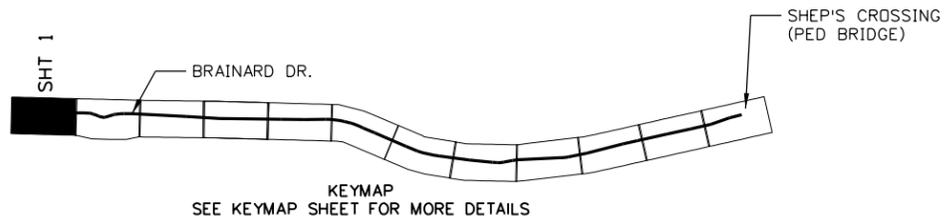
Designer: Z. CRIMMINS  
 Checker: D. DYER  
 Detailer: Z. CRIMMINS  
 Sheet Subset: BIKE RAMP  
 Subset Sheets: 02 of 02

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **63**



10:78 11:39:29 AM pwr:\SCI-PW\INTEG-2\stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2\11-CADD\Worksets\30322.01\Drawings\Design\Sheets\30322\_Drn\_Plans2.0

NOTE:  
 1. RIPRAP AT FLARED END SECTIONS SHALL BE SOIL RIPRAP, BURRIED, AT A DEPTH OF 18", WITH 6" TOPSOIL AND SODDED PER CITY & COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS: 642.08 AND DETAIL DRAWING NO. 600-2.  
 2. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.  
 3. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.



All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/23/2024  
 File Name: 30322\_Drn Plans2.0.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



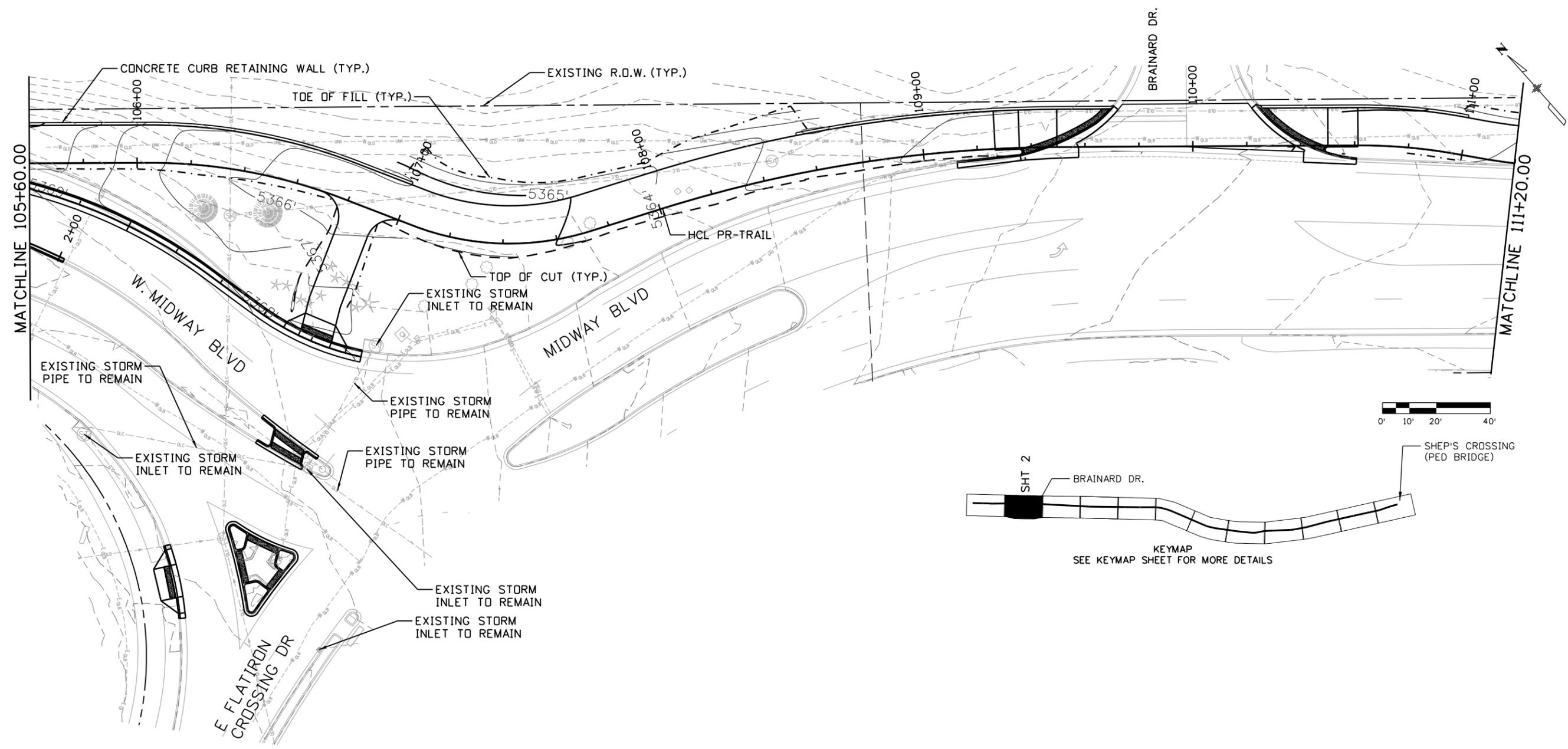
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 CITY ENGINEER (OR DESIGNEE) DATE

As Constructed  
 No Revisions:  
 Revised:  
 Void:

INDUSTRIAL LANE BIKEWAY PHASE 2  
 DRAINAGE PLAN SHEETS  
 STA: 98+00.00 TO 105+60.00  
 Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: DRAINAGE  
 Checker: D. DYER  
 Subset Sheets: 01 of 10

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **65**

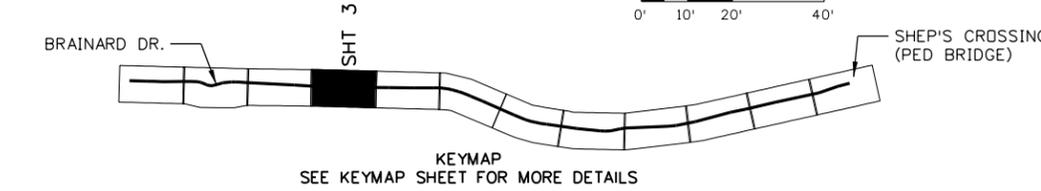
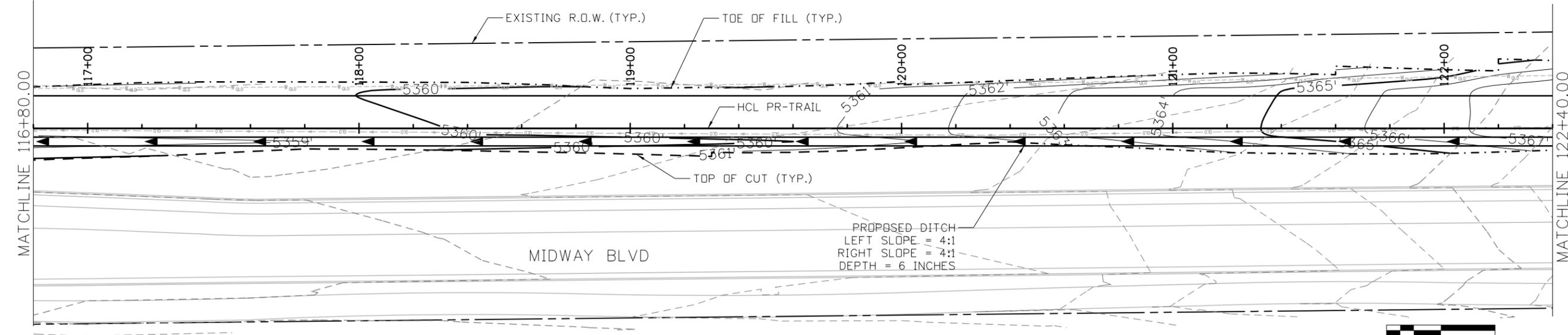
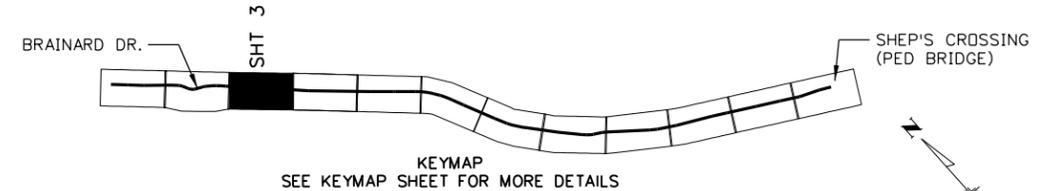
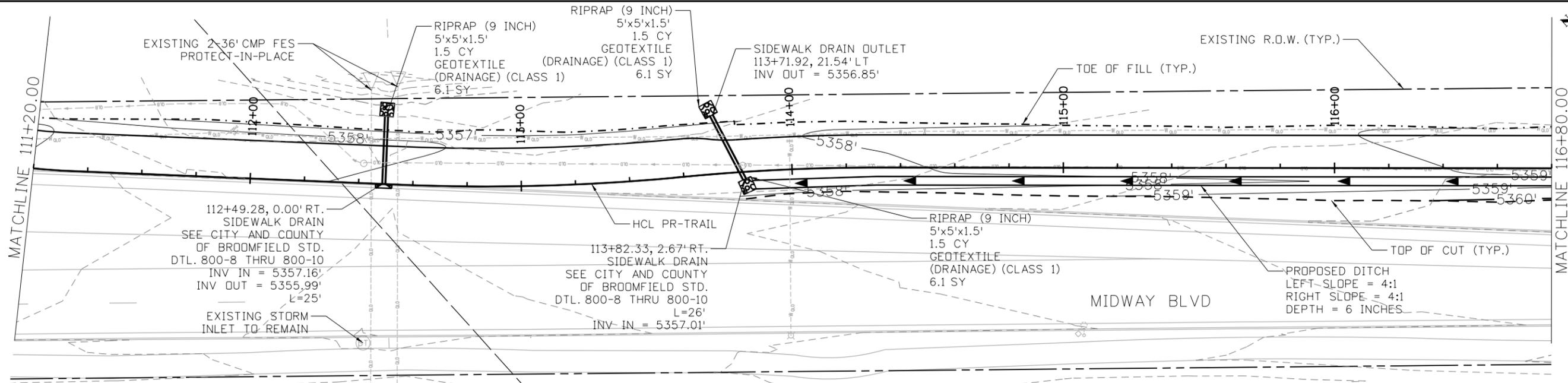
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NOTE:  
 1. RIPRAP AT FLARED END SECTIONS SHALL BE SOIL RIPRAP, BURRIED, AT A DEPTH OF 18", WITH 6" TOPSOIL AND SODDED PER CITY & COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS: 642.08 AND DETAIL DRAWING NO. 600-2.  
 2. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.  
 3. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code
	File Name: 30322_Drn Plans2.0.dgn	Date: _____	Comments: _____	Init.: _____			No Revisions:	DRAINAGE PLAN SHEETS		STU M145-013
	Horiz. Scale: _____ Vert. Scale: As Noted	_____	_____	_____			Revised:	Designer: A. HERNANDEZ	Checker: D. DYER	23593
	Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	_____	_____	_____			Void:	Detailer: A. HERNANDEZ	Sheet Subset: DRAINAGE	Subset Sheets: 02 of 10

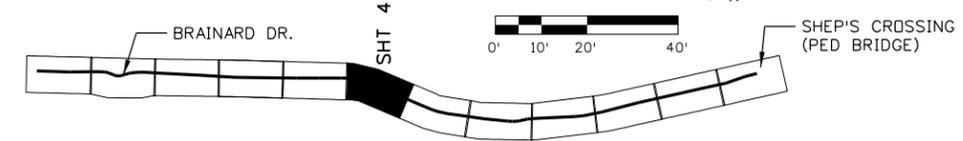
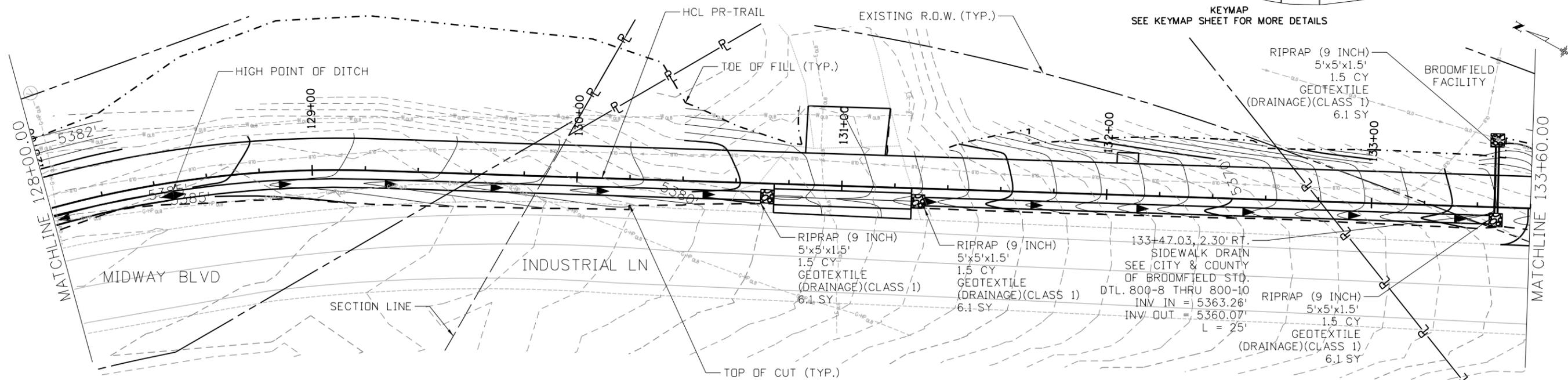
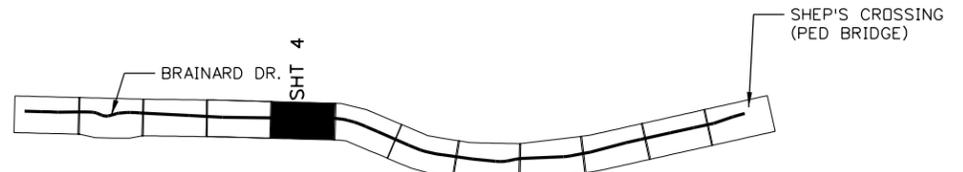
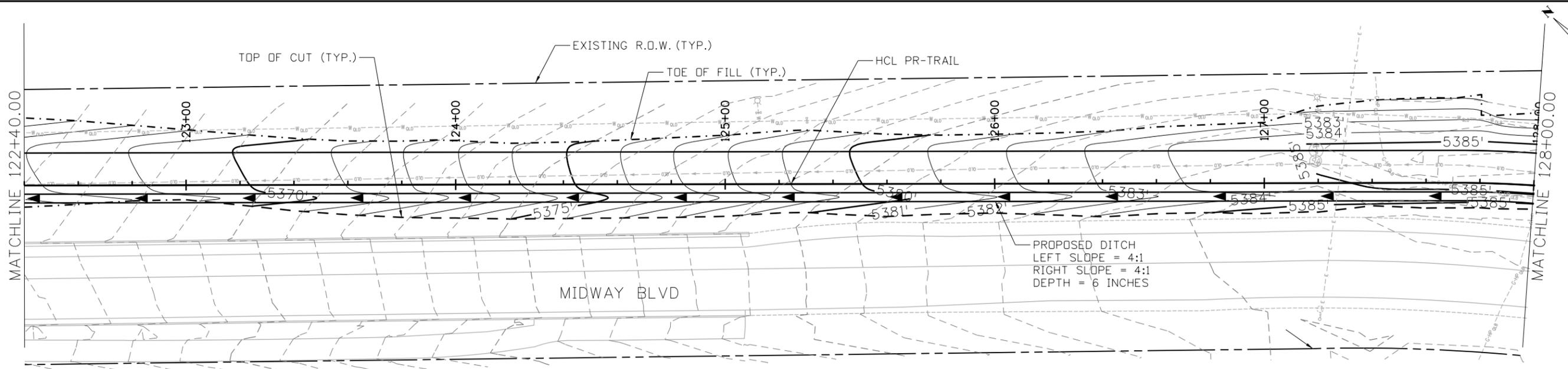
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NOTE:  
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 2. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.  
 3. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024 File Name: 30322_Drn_Plans2.0.dgn	<b>Sheet Revisions</b>				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	<b>INDUSTRIAL LANE BIKEWAY PHASE 2</b>		Project No./Code
	Horiz. Scale: _____ Vert. Scale: As Noted	Date: _____ Comments: _____ Init.: _____	No Revisions:	<b>DRAINAGE PLAN SHEETS</b>			STU M145-013			
	Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	_____ _____ _____	Revised:	Designer: A. HERNANDEZ Detailer: A. HERNANDEZ			Checker: _____ _____	23593		
	_____ _____ _____	_____ _____ _____	Void:	Sheet Subset: DRAINAGE Subset Sheets: 03 of 10			Sheet Number <b>67</b>			

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 9/16/2024  
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 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
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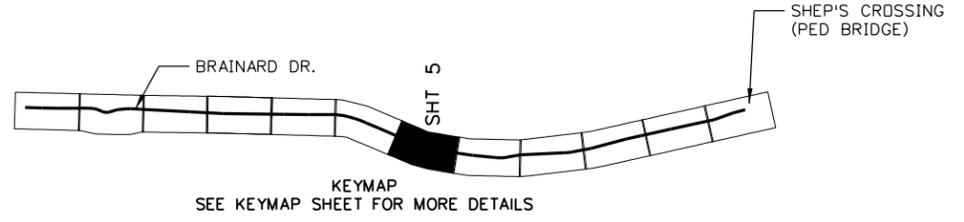
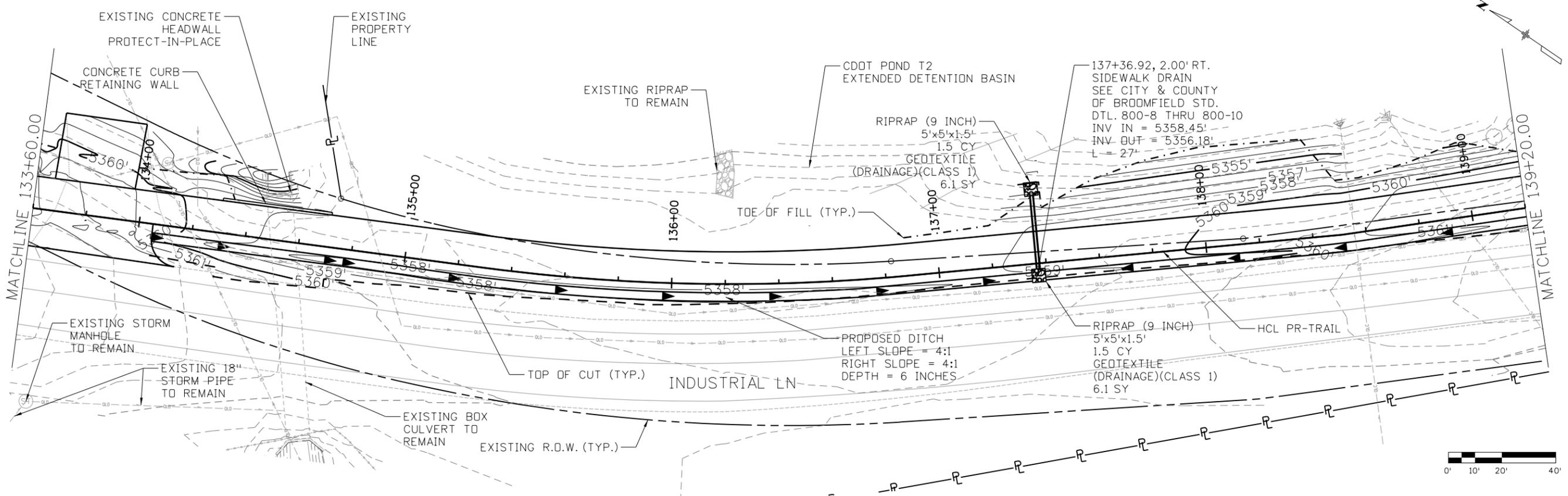
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 DRAINAGE PLAN SHEETS  
 STA: 122+40.00 TO 133+60.00**

Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: DRAINAGE

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **68**

Subset Sheets: 04 of 10

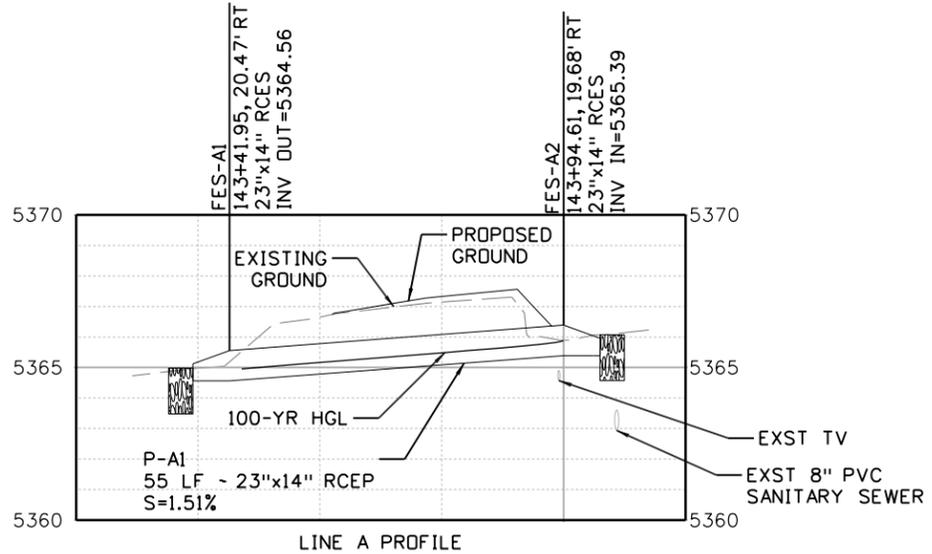
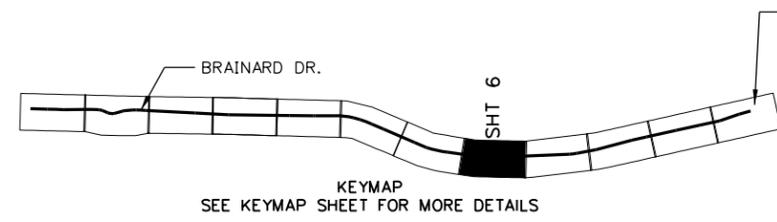
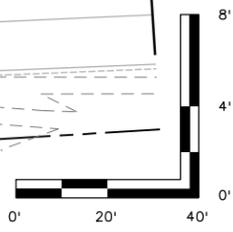
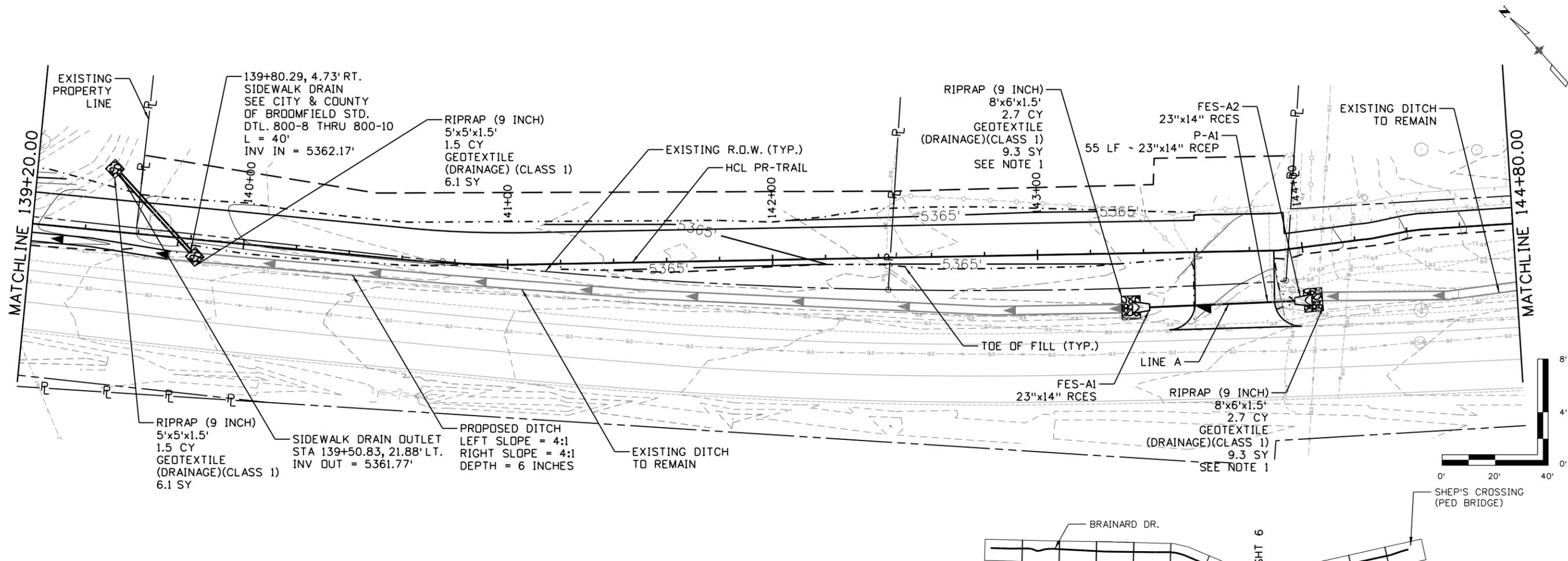
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NOTE:  
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 2. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.  
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2 DRAINAGE PLAN SHEETS STA: 133+60.00 TO 139+20.00		Project No./Code STU M145-013
	File Name: 30322_Drn Plans2.0.dgn	Date: _____	Comments: _____	Init.: _____			No Revisions:	Designer: A. HERNANDEZ	Checker: D. DYER	23593
	Horiz. Scale: _____ Vert. Scale: As Noted	_____	_____	_____			Revised:	Detailer: A. HERNANDEZ	_____	_____
	Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	_____	_____	_____			Void:	Sheet Subset: DRAINAGE	Subset Sheets: 05 of 10	Sheet Number <b>69</b>

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NOTE:  
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 2. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.  
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All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/23/2024  
 File Name: 30322\_Drn\_Plans2.0.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
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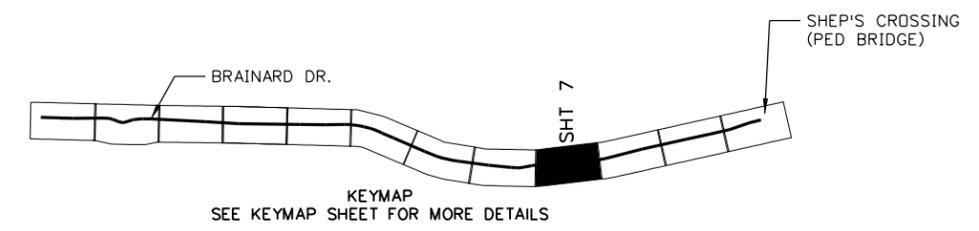
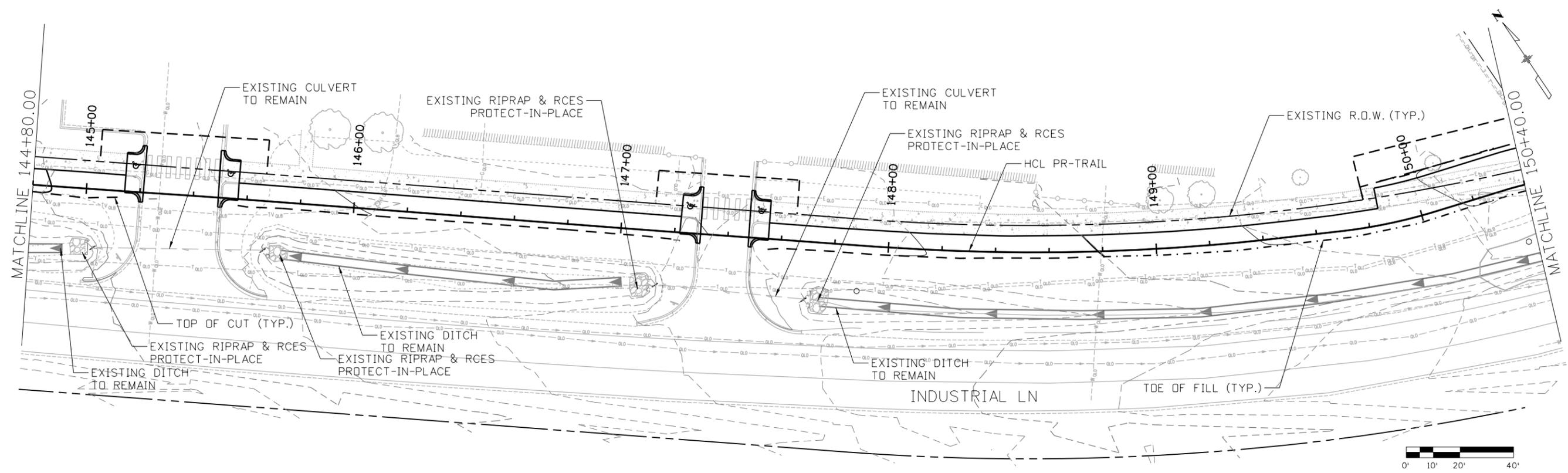
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 DRAINAGE PLAN SHEETS  
 STA: 139+20.00 TO 144+80.00**

Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: DRAINAGE

Checker: D. DYER  
 Subset Sheets: 06 of 10

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **70**

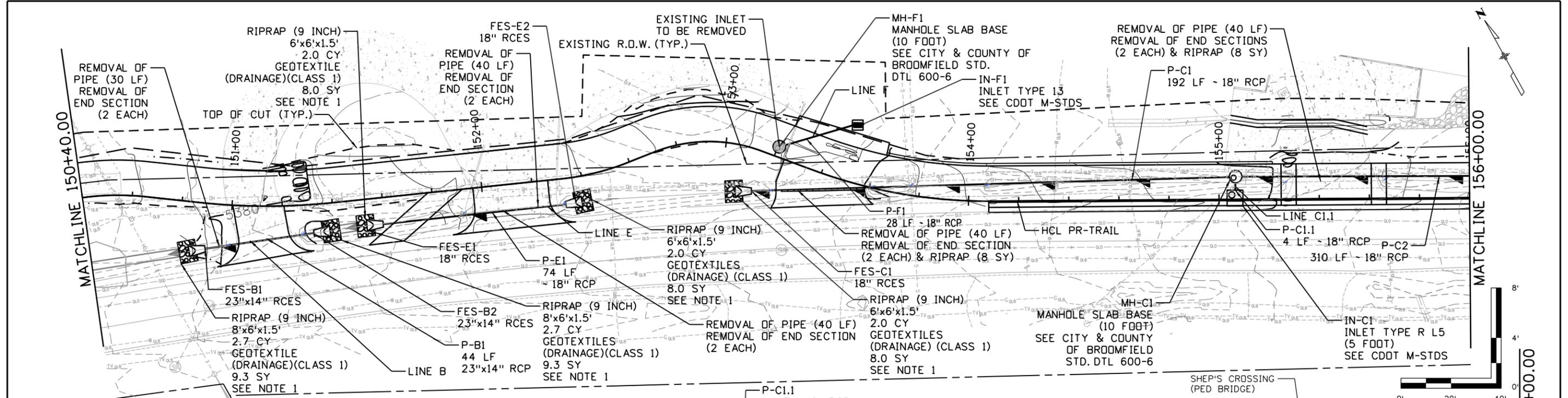
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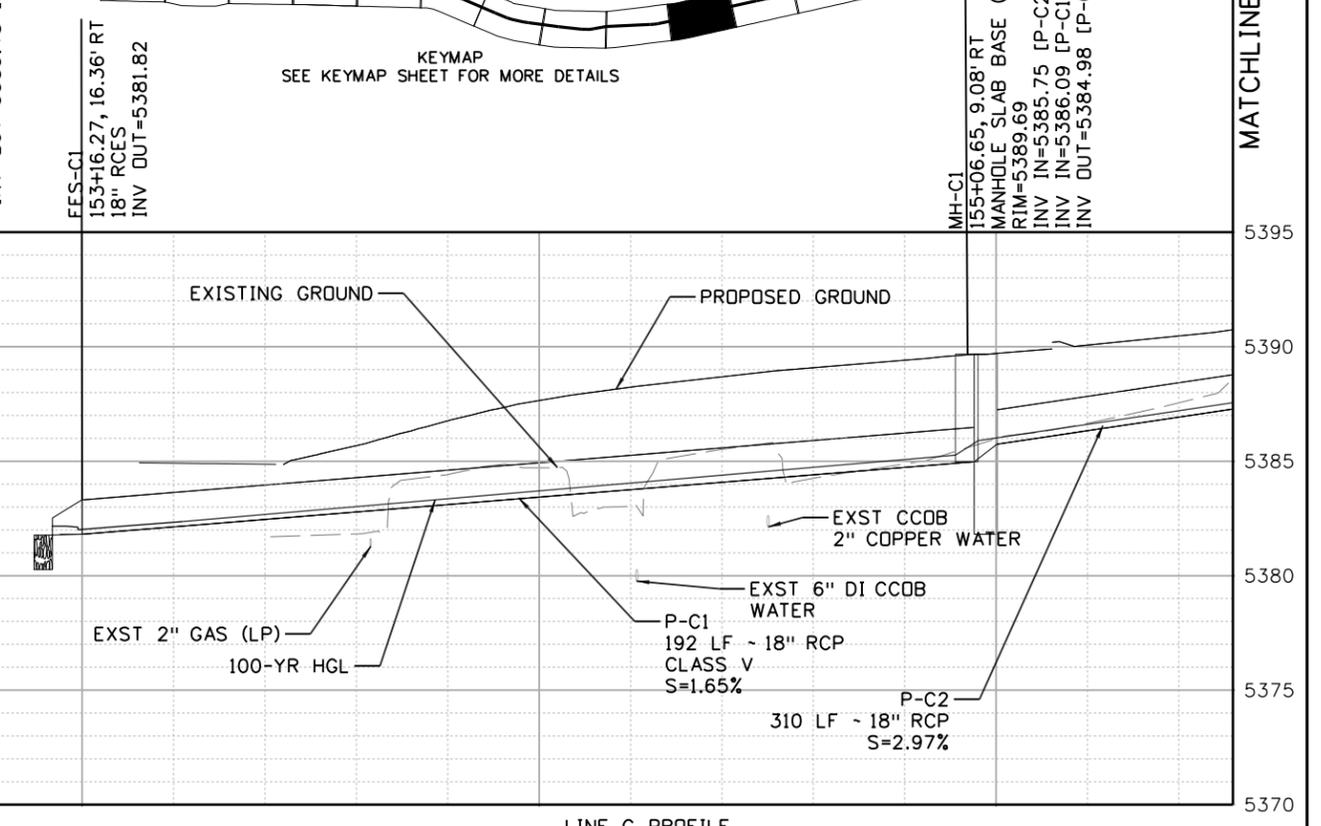
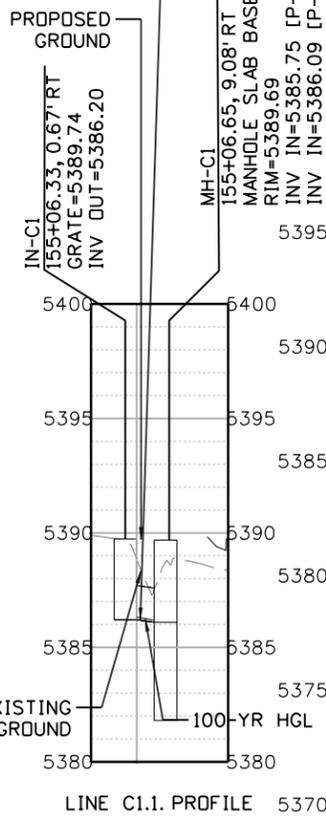
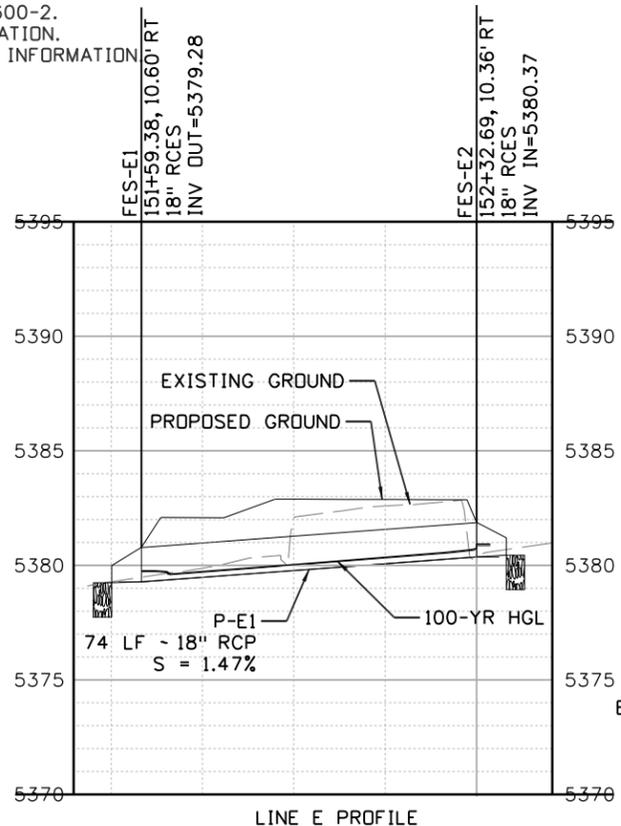
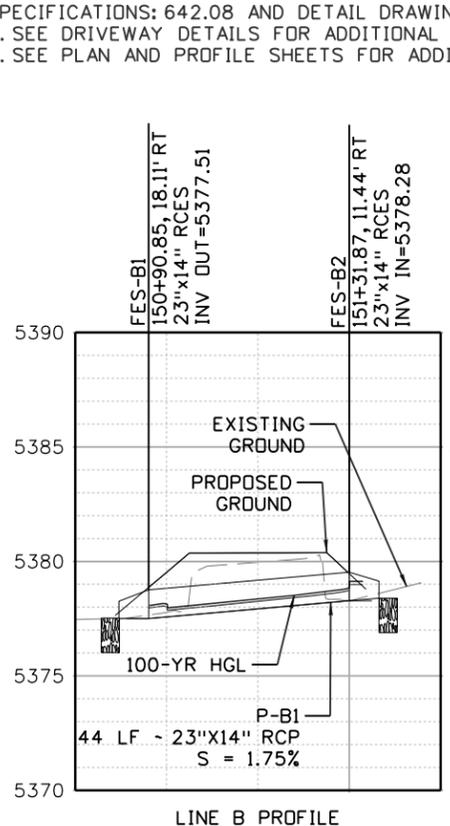
NOTE:  
 1. RIPRAP AT FLARED END SECTIONS SHALL BE SOIL RIPRAP, BURIED, AT A DEPTH OF 18", WITH 6" TOPSOIL AND SODDED PER CITY & COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS: 642.08 AND DETAIL DRAWING NO. 600-2.  
 2. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.  
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/23/2024	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.	As Constructed No Revisions: Revised: Void:	INDUSTRIAL LANE BIKEWAY PHASE 2 DRAINAGE PLAN SHEETS STA: 144+80.00 TO 150+40.00		Project No./Code
	File Name: 30322_Drn Plans2.0.dgn	Date:	Comments	Init.				STU M145-013		
	Horiz. Scale:                      Vert. Scale: As Noted Unit Information							23593		
	8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806							Designer: A. HERNANDEZ    Checker: D. DYER Detailer: A. HERNANDEZ Sheet Subset: DRAINAGE    Subset Sheets: 07 of 10	Sheet Number <b>71</b>	

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NOTE:  
1. RIPRAP AT FLARED END SECTIONS SHALL BE SOIL RIPRAP, BURIED, AT A DEPTH OF 18", WITH 6" TOPSOIL AND SODDED PER CITY & COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS: 642.08 AND DETAIL DRAWING NO. 600-2.  
2. SEE DRIVEWAY DETAILS FOR ADDITIONAL INFORMATION.  
3. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.



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8000 South Chester St.  
Suite 400  
Centennial, CO 80112  
Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



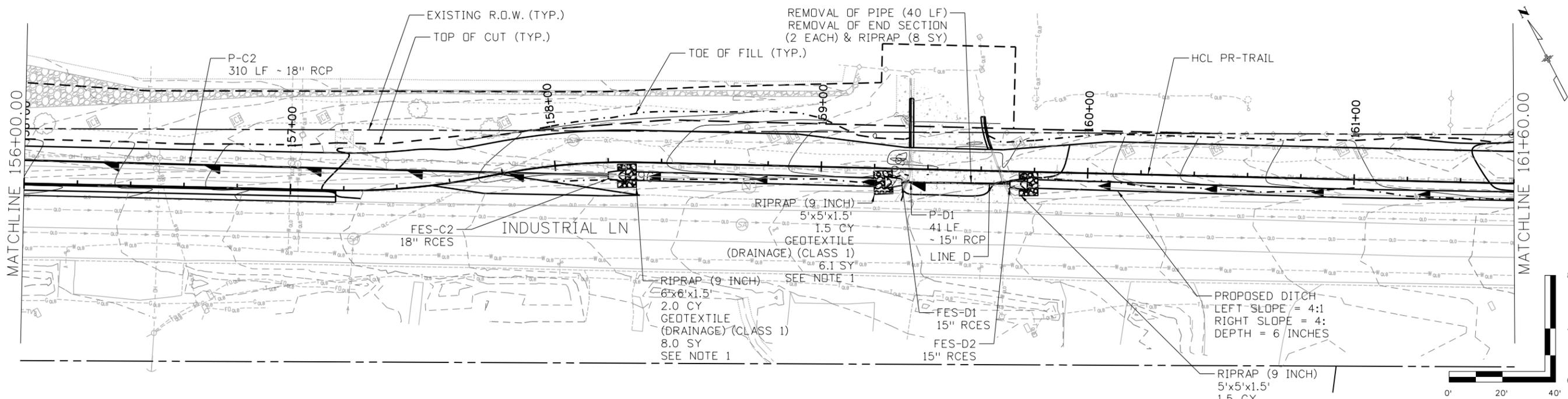
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INDUSTRIAL LANE BIKEWAY PHASE 2  
DRAINAGE PLAN SHEETS  
STA: 150+40.00 TO 156+00.00  
Designer: A. HERNANDEZ  
Detailer: A. HERNANDEZ  
Sheet Subset: DRAINAGE  
Checker: D. DYER  
Subset Sheets: 08 of 10

Project No./Code  
STU M145-013  
23593  
Sheet Number 72

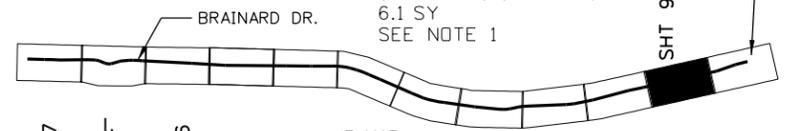
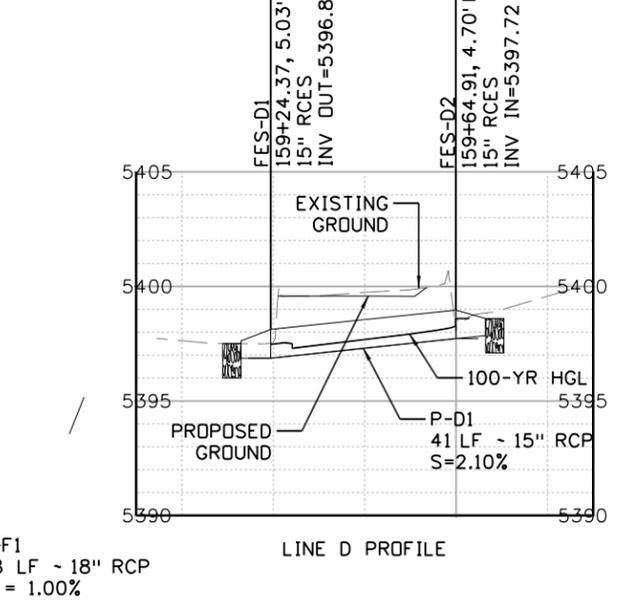
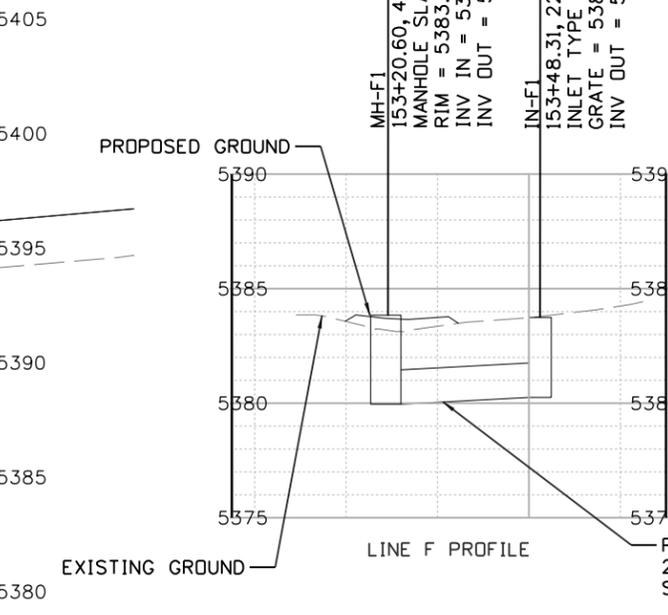
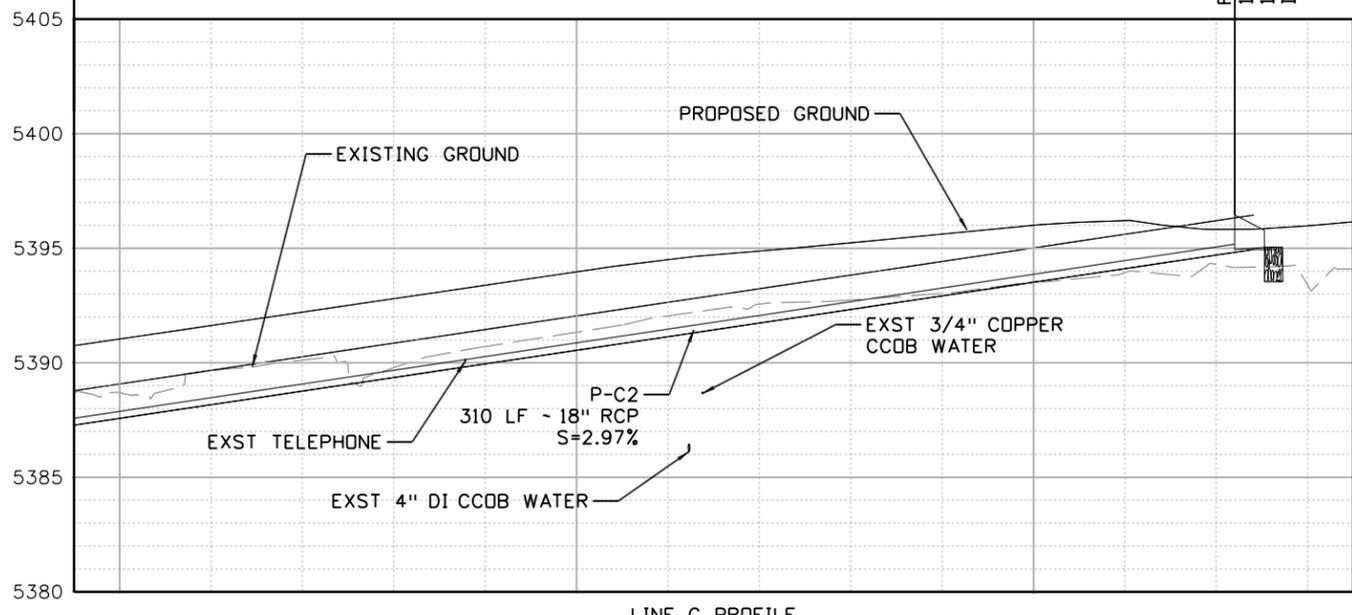
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MATCHLINE 161+60.00



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INDUSTRIAL LANE BIKEWAY PHASE 2  
 DRAINAGE PLAN SHEETS  
 STA: 156+00.00 TO 161+60.00  
 Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: DRAINAGE  
 Checker: D. DYER  
 Subset Sheets: 09 of 10

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **73**





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- F. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP: SWMP Site Maps.
- G. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP: SWMP Site Maps.
- H. SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER: SWMP Site Maps.
- I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY: SWMP Site Maps.
- J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES: SWMP Site Maps.
- K. LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY: SWMP Site Maps.

**3. QUALIFIED STORMWATER MANAGERS:**

**A. SWMP ADMINISTRATOR FOR DESIGN:**

CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information	Certification #
Andres Hernandez, PE Water Resources Engineer	hernandezandres@stanleygroup.com 720-460-4726	E7591CE

**B. SWMP ADMINISTRATOR FOR CONSTRUCTION:** (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of TECS Certification must be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Start Date	Engineer Approval

**C. EROSION CONTROL INSPECTOR:** (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Start Date	Engineer Approval

**D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT:** This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.

5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Partial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information

**4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES**

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

**A. POTENTIAL POLLUTANT SOURCES:**

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

**B. OFFSITE DRAINAGE (RUN ON WATER):**

Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

**C. VEHICLE TRACKING CONTROL:**

Control measures shall be implemented in accordance with subsection 208.04.

**D. PERIMETER CONTROL:**

1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04
2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

**5. DURING CONSTRUCTION**

**RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION:** Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-G below as needed in accordance with subsection 208.03.

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

**A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN:** Prior to construction commencing the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.

**B. OTHER CDPS PERMITS:** List applicable CDPS permits associated with the permitted site and activities.

**C. STOCKPILE MANAGEMENT:** Shall be done in accordance with subsections 107.25 and 208.07.

**D. CONCRETE WASHOUT:** Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

**E. SAW CUTTING:** Shall be done in accordance with subsections 107.25, 208.04, 208.05

**F. STREET SWEEPING:** Shall be done in accordance with subsection 208.04.

**6. INSPECTIONS**

- A. Water Quality Inspections shall be in accordance with subsection 208.03(c).
- B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

**7. CONTROL MEASURE MAINTENANCE**

Maintenance shall be in accordance with subsection 208.04(f).

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	File Name: 30322_SWMPNarrative.dgn		Date:	Comments	Init.				STU M145-013		
	Horiz. Scale:      Vert. Scale: As Noted								23593		
	Unit Information								Sheet Number <b>76</b>		
 Stanley Consultants inc. 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	CITY ENGINEER (OR DESIGNEE) _____ DATE _____			Designer: A. HERNANDEZ    Checker: _____ Detailer: K. ARKLEY	Sheet Subset: SWMP    Subset Sheets: 02 of 06						

**8. RECORD KEEPING**

Records shall be kept in accordance with subsection 208.03(d).

**9. INTERIM, PERMANENT STABILIZATION and LONG-TERM STORMWATER MANAGEMENT**

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

**A. SEEDING PLAN:**

The following seed mix(es) and rates are for drill seeding method as shown on the Permanent Stabilization Site Maps shall be used:

**CITY AND COUNTY OF BROOMFIELD SEED MIX**

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Intermediate wheatgrass	Thinopyrum intermedium	8
Slender wheatgrass	Agropyron trachycaulum	3.4
Pubescent wheatgrass	Agropyron cristatum	7
Russian	Thinopyrum junceiforme	3
Wildrye	Elymus	7
Western wheatgrass	Pascopyrum	8
<b>Total</b>		<b>36.4</b>

**B. SEEDING APPLICATION METHOD:**

The following seeding methods shall be used for all areas shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

Pay Item	Seeding Method (subsection 212.05)	Acre
212-00707	Seeding (Native) Hydraulic	1.74
<b>Total</b>		<b>1.74</b>

**C. SOIL STABILIZATION METHODS:**

Minimum soil stabilization methods (attached mulch) for all disturbances to receive seeding:

1. Apply Spray-on Mulch Blanket hydraulically in accordance with Section 213.
2. Install Soil Retention Blankets in accordance with Standard Plan M-216-1 and Section 216.

**D. SPECIAL REQUIREMENTS:**

1. Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
2. Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
3. The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

**E. SOIL AMENDMENT REQUIREMENTS:** Minimum amendment material requirements for all disturbances to receive seeding.

**1.74 Total Acres of Seeding (Native) Hydraulic**

Seeding (Native) Hydraulic Pay Item 212-00707	Pay Item	Description	Amount/Acre	Units	Total For This Method
	212-00700	Organic Fertilizer (High or Low N)	100	Pounds	174
	212-00701	Compost (Mechanically Applied)	25	CY	43.5
	212-00703	Humate	70	Pounds	121.8
	212-00704	Mycorrhizae	5	Pounds	8.7

**F. Permanent Stabilization Application Under Structures:**

Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other

stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.

**G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:**

Prior to stormwater construction work partial acceptance.

1. All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas, at no additional cost to the project.

**H. LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES:** Is Permanent Water Quality Required? No.

**10. PRIOR TO PROJECT FINAL ACCEPTANCE**

- A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- B. At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
- C. All storm drains shall be cleaned prior to the Final Acceptance of the project. If required, include work in 202-04002 Clean Culvert. [\*\*Check with Region Water Quality staff to see if CLEAN CULVERT PSP is needed and what Pay Item to use.\*\*]
- D. Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work

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	Horiz. Scale:      Vert. Scale: As Noted						Revised:	Designer: A. HERNANDEZ	Checker:		
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 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					Sheet Subset: SWMP	Subset Sheets: 03 of 06	23593	Sheet Number <b>77</b>			

**11. NARRATIVES**

**Control Measure Matrixes During Construction:**

1. Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
2. The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
3. A "B" in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

**STRUCTURAL Control Measures** that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.					
PROTECTION OF EXISTING TREES/LANDSCAPING Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of sensitive habitat, mature trees and/or existing landscaping prior to start of construction disturbances.			B	X	
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208		X	X	
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		B	X	
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208				
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction disturbances.	M-208		B	X	
TYPE C, TYPE D AND TYPE 13 PROTECTION Erosion logs, aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to the start of construction disturbances.	M-208				
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208				
TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction disturbances.	M-208			X	
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to the start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				
OUTLET PROTECTION Riprap, or approved other	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12				X
CONCRETE WASHOUT In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to the start of concrete activities.	M-208		X		
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to the start of construction disturbances.	M-208		X		
Engineered SEDIMENT BASIN	Constructed early in the project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible					

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	 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806						Sheet Subset: SWMP	Subset Sheets: 04 of 06	Sheet Number <b>78</b>

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.					
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.					
CLEAN WATER DIVERSION	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.					
OTHER						

**NON-STRUCTURAL Control Measures** that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

\* **Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity – CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a "finishing" component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: <https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf>

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
* VEGETATIVE BUFFER STRIP	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.					
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208				
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208				
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.					
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.				X	
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.					
Straw or Hay MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer					X
SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer					
SEEDING PERMANENT (NATIVE PERENNIAL)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				X
TURF REINFORCEMENT MAT (TRM)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
OTHER						

Template Revised: 2.25.2022

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	File Name: 30322_SWMPNarrative.dgn	Date:	Comments	Init.		No Revisions:	STORMWATER MANAGEMENT PLAN		STU M145-013
	Horiz. Scale:      Vert. Scale: As Noted					Revised:	Designer: A. HERNANDEZ	Checker:	23593
	Unit Information					Void:	Detailer: K. ARKLEY		
	 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					Sheet Subset: SWMP	Subset Sheets: 05 of 06		Sheet Number <b>79</b>

**12. TABULATION OF STORMWATER QUANTITIES**

- A. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.
- B. It is estimated that XX hours of combination loader (80-125 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Combination Loader

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
	208-00020	Silt Fence	LF	7339			7339
	208-00035	Aggregate Bag	LF	361	228		589
	208-00041	Rock Check Dam	Each		43		43
	208-00045	Concrete Washout Structure	Each	2			2
	208-00053	Storm Drain Inlet Protection (Type I) (84 Inch)	Each	5	2		7
	208-00070	Vehicle Tracking Pad	Each	2			2
	212-00707	Seeding (Native) Hydraulic	Acre			1.74	1.74
	213-00003	Mulching (Weed Free)	Acre			1.74	1.74
	213-00061	Mulch Tackifier	LB			350	350
	216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY			7422	7422
	607-11525	Fence (Plastic)	LF	3401			3401

\*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.  
 \*\*Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.  
 \*\*\* F/A refers to CDOT's Force Account Pay Items.

**13. BIOLOGICAL IMPACTS and DEWATERING**

- A. ENVIRONMENTAL IMPACTS:
  1. Wetland Impacts: NO
  2. Stream Impacts: NO
  3. Threatened and Endangered Species: No species are anticipated to be impacted by the project.
- B. DEWATERING:  
 (Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):  
<https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf>
  1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
  2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

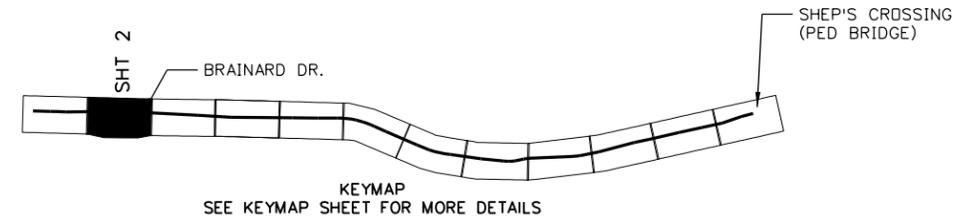
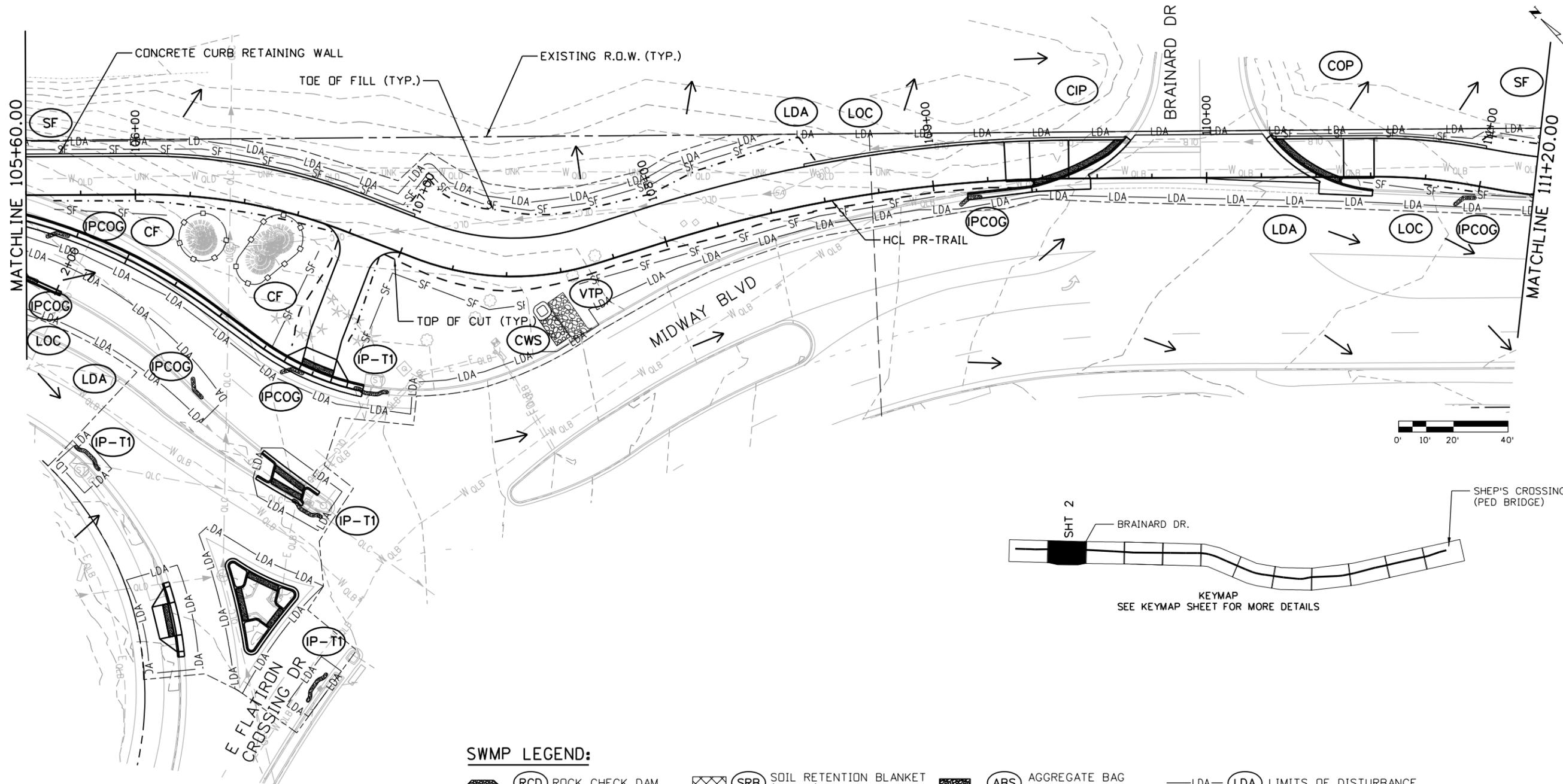
**14. NOTES**

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	File Name: 30322_SWMPNarrative.dgn	Date:	Comments	Init.			No Revisions:	<b>STORMWATER MANAGEMENT PLAN</b>			STU M145-013		
	Horiz. Scale:                      Vert. Scale: As Noted						Revised:	Designer: A. HERNANDEZ	Checker:			23593	
	Unit Information						Void:	Detailer: K. ARKLEY					Sheet Number <b>80</b>
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**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

**SWMP LEGEND:**

(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
(CIP) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (COCONUT)	(SSA) STABILIZED STAGING AREA	(TST) TEMPORARY SEDIMENT TRAP
(COP) CULVERT OUTLET PROTECTION	(IP-T1) INLET PROTECTION (TYPE 1)	(SF) SILT FENCE	(VTP) VEHICLE TRACKING PAD
(CWS) CONCRETE WASHOUT STRUCTURE	(IP-COG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG)	(SMC) SEEDING, MULCHING	FLOW ARROW
(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

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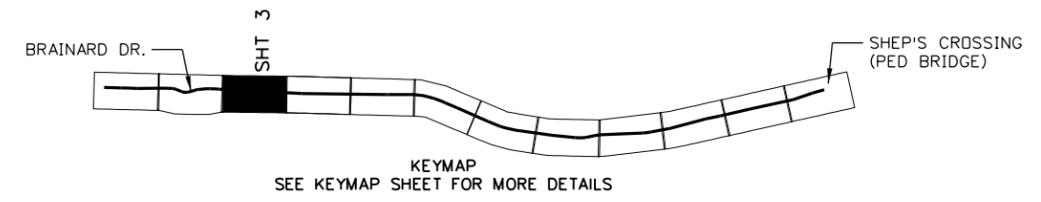
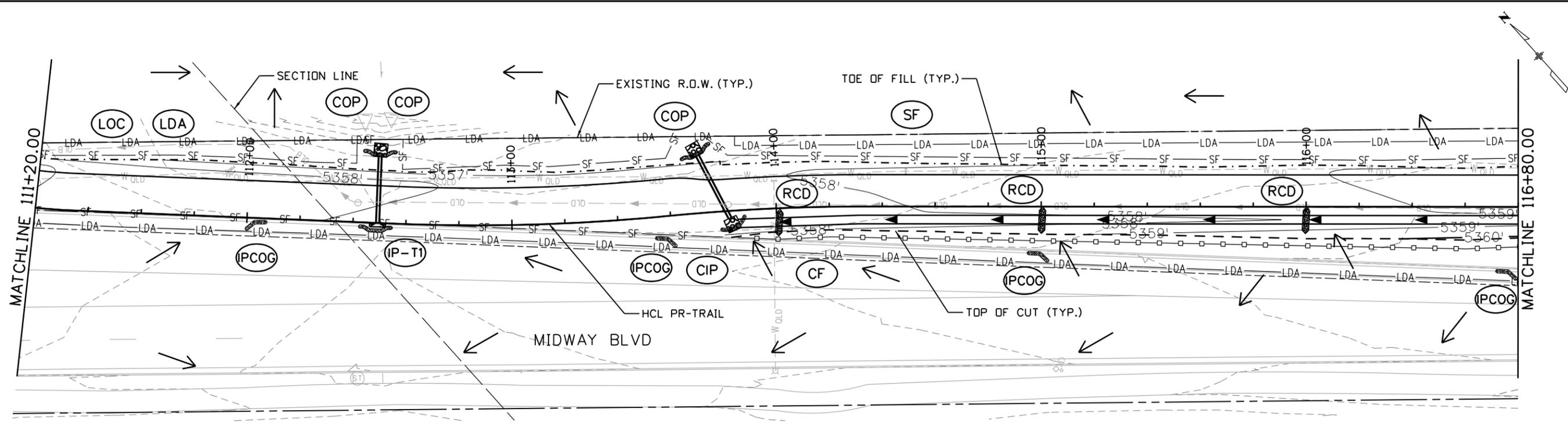
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 INITIAL/INTERIM PHASE**

Designer: A. HERNANDEZ  
 Checker: D. DYER  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP  
 Subset Sheets: 02 of 12

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 Sheet Number **82**

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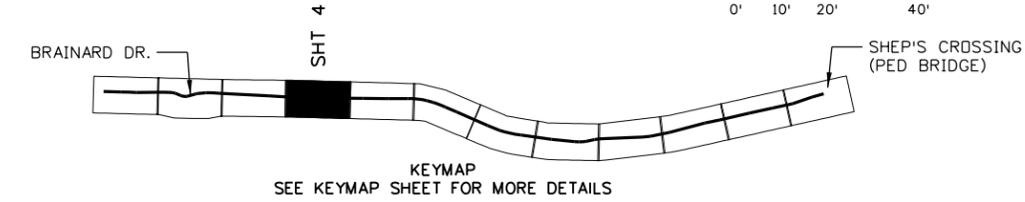
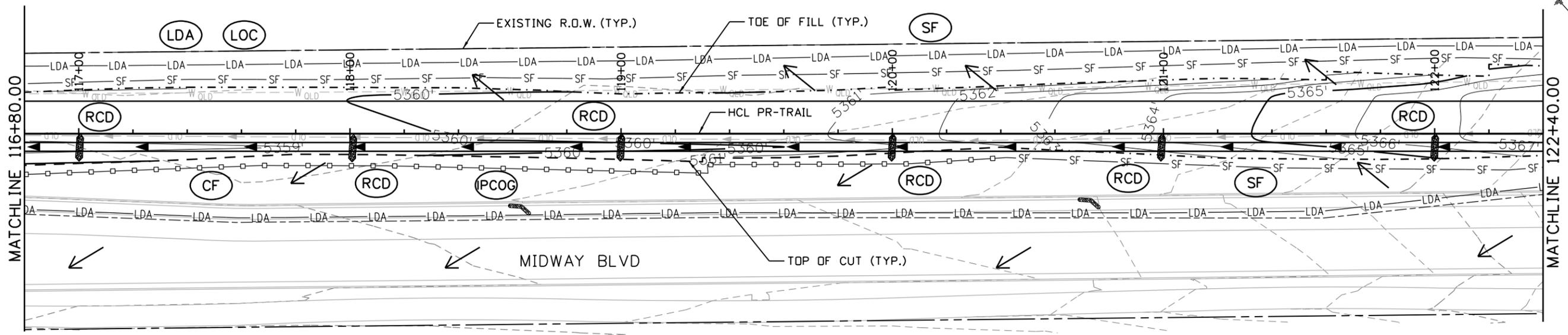
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 INITIAL/INTERIM PHASE**

Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP

Checker: D. DYER  
 Subset Sheets: 03 of 12

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 Sheet Number **83**

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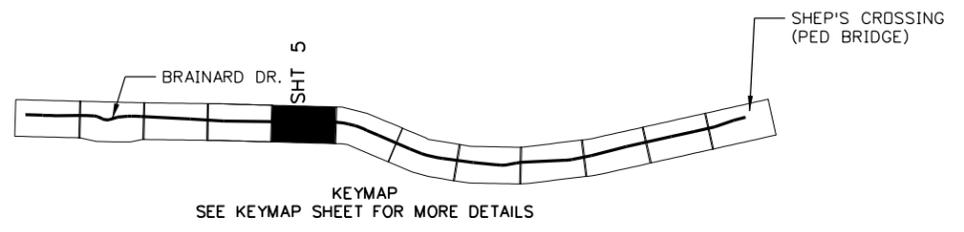
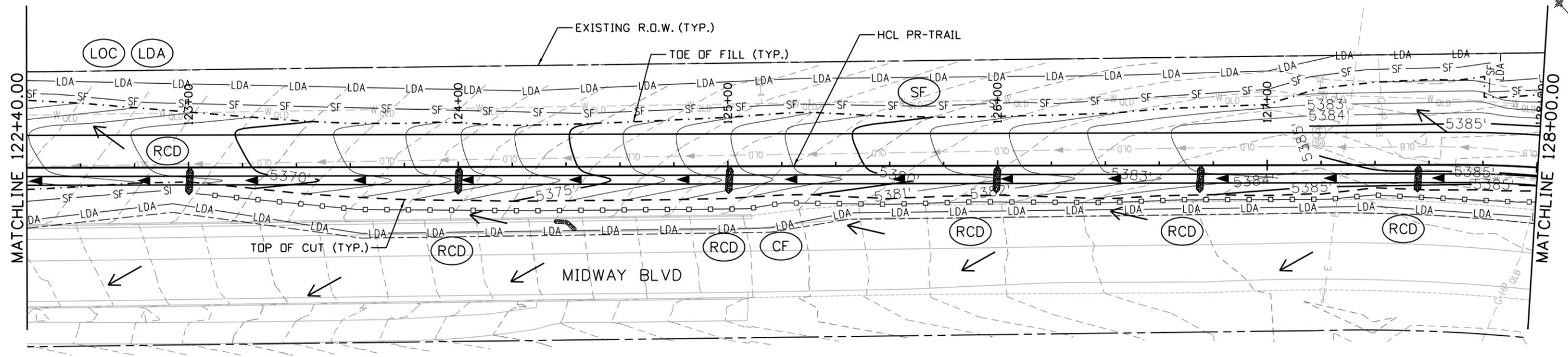
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 INITIAL/INTERIM PHASE**

Designer: A. HERNANDEZ  
 Checker: D. DYER  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP Subset Sheets: 04 of 12

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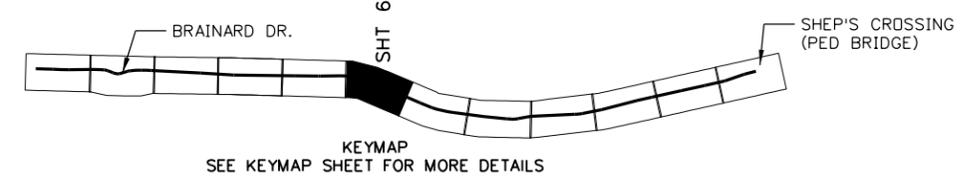
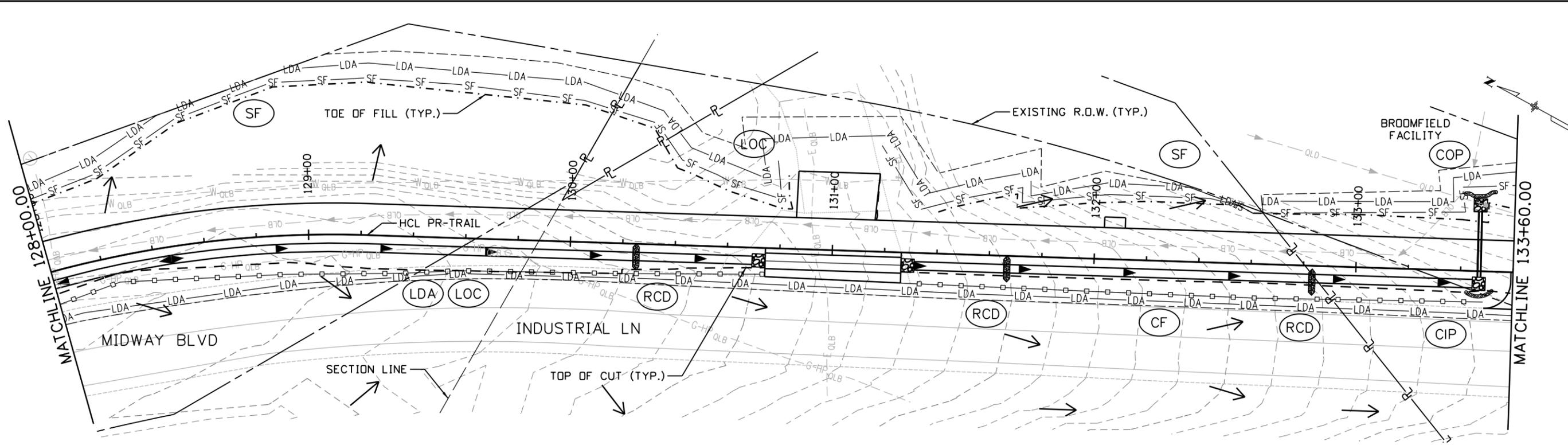
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| (DD) DIVERSION DITCH                                | (AG) AGGREGATE BAG                                    | (SR) SURFACE ROUGHING            | NO PARKING, NO STAGING, AND NO WORK AREA |

**NOTES/ADDITIONAL ITEMS:**

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					Sheet Subset: SWMP	Subset Sheets: 05 of 12	Sheet Number <b>85</b>				

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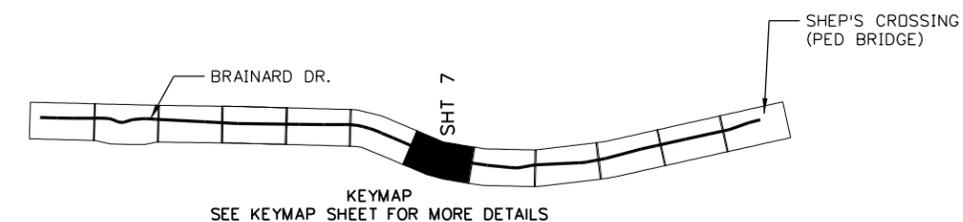
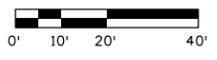
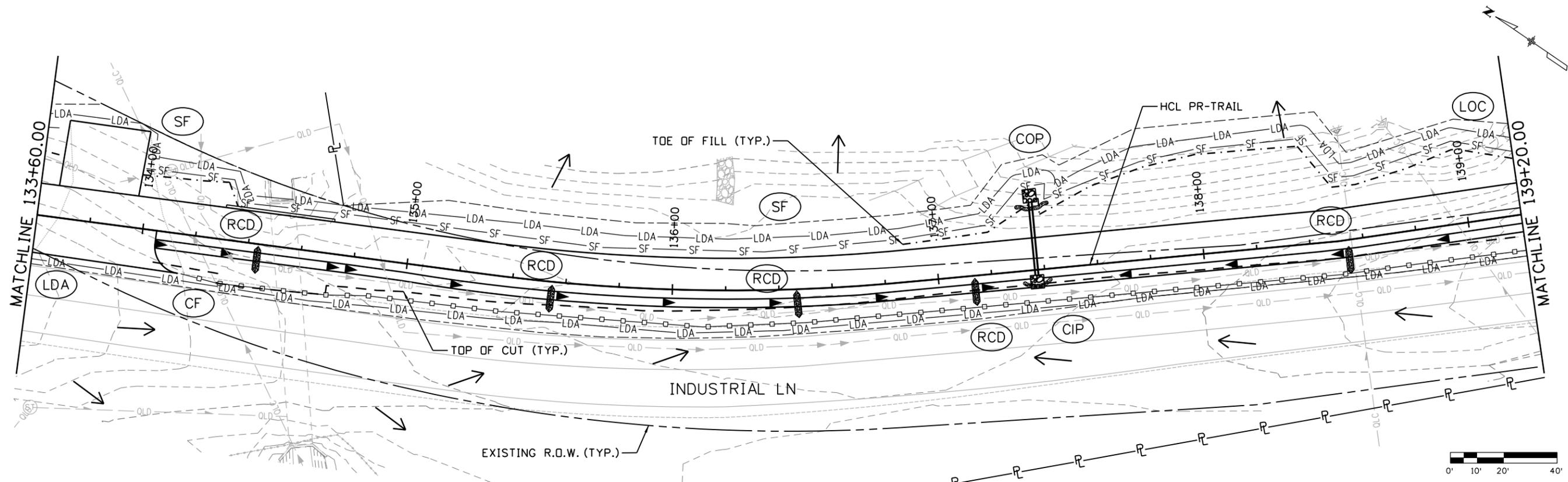
**INDUSTRIAL LANE BIKEWAY PHASE 2  
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Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP

Checker: D. DYER  
 Subset Sheets: 06 of 12

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(CF) FENCE (FENCE PLASTIC) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
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(COP) CULVERT OUTLET PROTECTION	(IP-T1) INLET PROTECTION (TYPE 1)	(SF) SILT FENCE	(VTP) VEHICLE TRACKING PAD
(CWS) CONCRETE WASHOUT STRUCTURE	(IP-COG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG)	(SMC) SEEDING, MULCHING	FLOW ARROW
(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

All seals for this set of drawings are applied to the cover page(s)

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 Horiz. Scale: 1"=40' Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

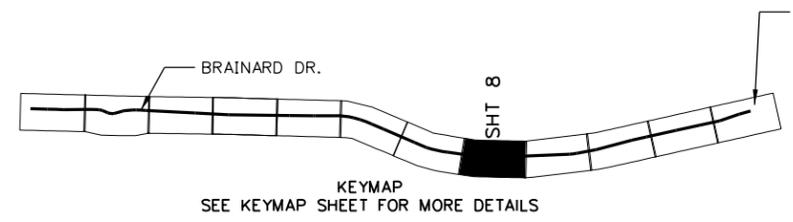
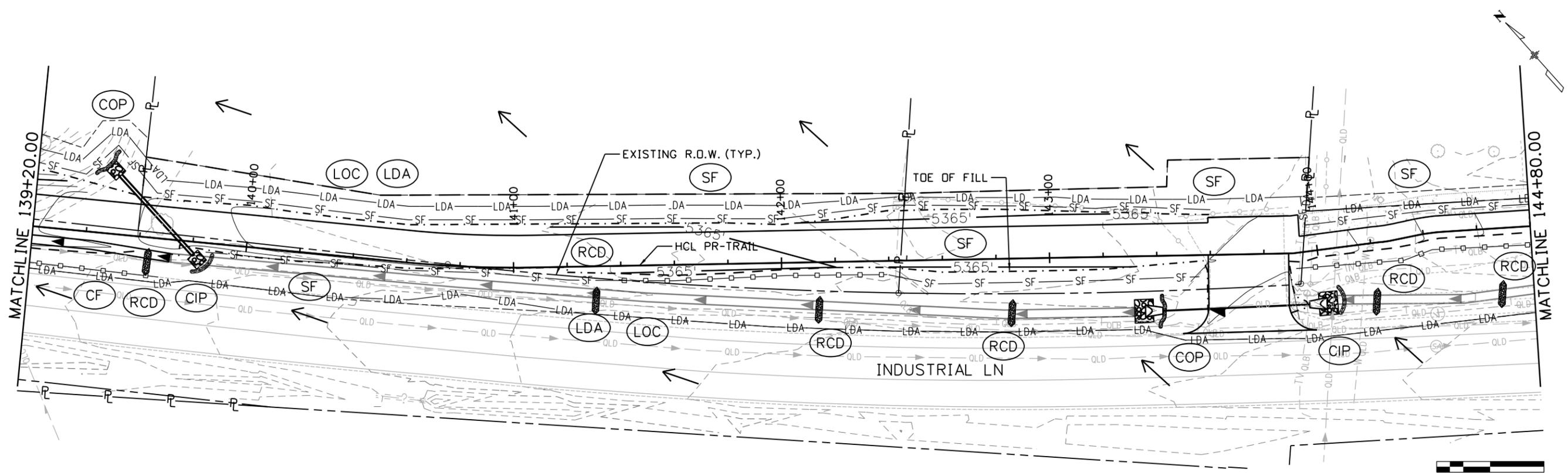
As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 INITIAL/INTERIM PHASE**

Designer: A. HERNANDEZ  
 Checker: D. DYER  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP Subset Sheets: 07 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **87**

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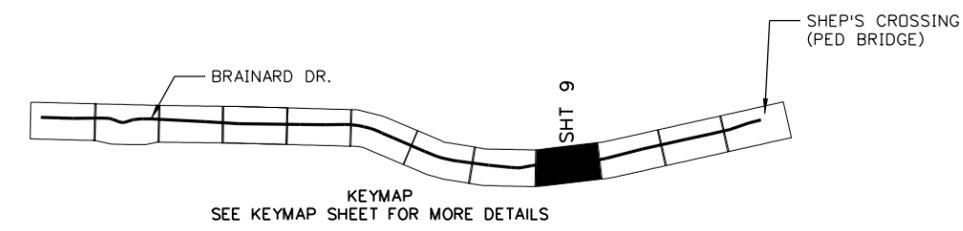
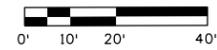
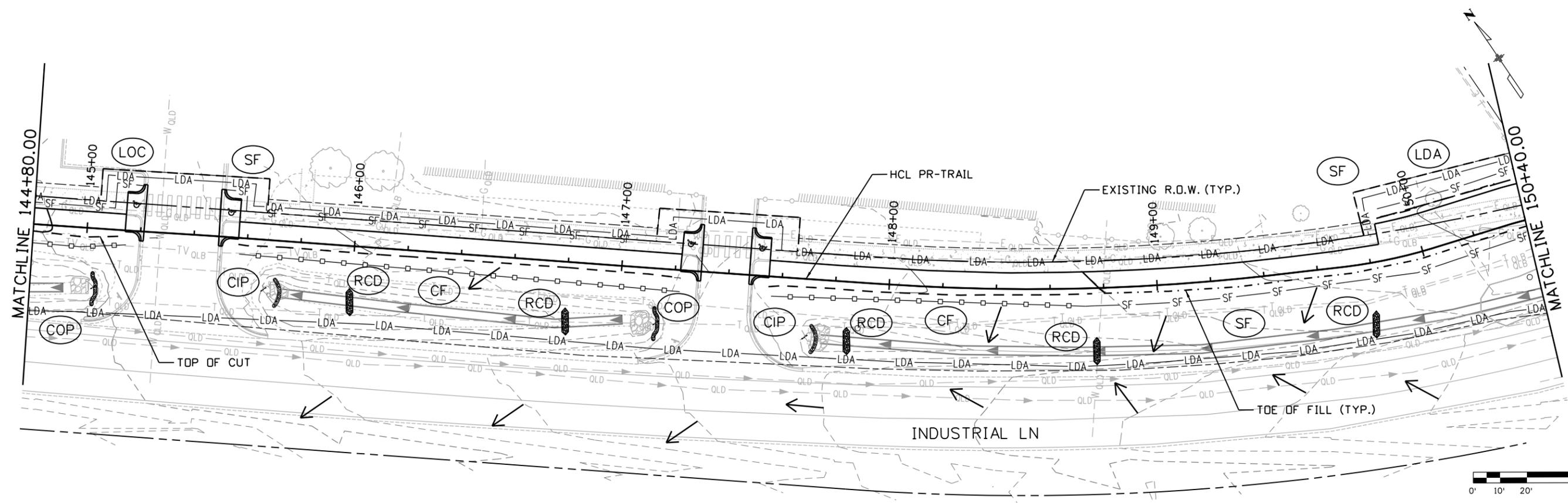
- |                                   |   |                                  |  |
|-----------------------------------|---|----------------------------------|--|
| (RCD) ROCK CHECK DAM CONSTRUCTION | (SRB) SOIL RETENTION BLANKET (STRAW)                  | (ABS) AGGREGATE BAG IN SWALE     | (LDA) LIMITS OF DISTURBANCE              |
| (CF) FENCE (FENCE PLASTIC)        | (SRB) SOIL RETENTION BLANKET (COCONUT)                | (EL) EROSION LOG TYPE 2 (8 INCH) | (LOC) LIMITS OF CONSTRUCTION             |
| (CIP) CULVERT INLET PROTECTION    | (SRB) SOIL RETENTION BLANKET (COCONUT)                | (SSA) STABILIZED STAGING AREA    | (TST) TEMPORARY SEDIMENT TRAP            |
| (COP) CULVERT OUTLET PROTECTION   | (IP-T1) INLET PROTECTION (TYPE 1)                     | (SF) SILT FENCE                  | (VTP) VEHICLE TRACKING PAD               |
| (CWS) CONCRETE WASHOUT STRUCTURE  | (PCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG) | (SMC) SEEDING, MULCHING          | FLOW ARROW                               |
| (DD) DIVERSION DITCH              | (AG) AGGREGATE BAG                                    | (SR) SURFACE ROUGHING            | NO PARKING, NO STAGING, AND NO WORK AREA |

**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

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	File Name: 30322_SWMP I&I 2.0.dgn	Date:	Comments			Init.	No Revisions:	<b>STORMWATER MANAGEMENT PLAN</b>		STU M145-013	
	Unit Information	Horiz. Scale: 1"=40'	Vert. Scale: As Noted				Revised:	Designer: A. HERNANDEZ			Checker: D. DYER
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806				Void:	Detailler: A. HERNANDEZ		Sheet Subset: SWMP	Subset Sheets: 08 of 12	Sheet Number <b>88</b>		

10:78 11:12:36 AM pw:\VCI-PW\INTEG-2\stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2\11-CADD\Worksheets\30322.01.DGNs\Design\Sheets\30322\_SWMP\_I&I\_2.0



**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

**SWMP LEGEND:**

(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC)	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
(CIP) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (COCONUT)	(SSA) STABILIZED STAGING AREA	(TST) TEMPORARY SEDIMENT TRAP
(COP) CULVERT OUTLET PROTECTION	(IP-T1) INLET PROTECTION (TYPE 1)	(SF) SILT FENCE	(VTP) VEHICLE TRACKING PAD
(CWS) CONCRETE WASHOUT STRUCTURE	(PCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG)	(SMC) SEEDING, MULCHING	FLOW ARROW
(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

All seals for this set of drawings are applied to the cover page(s)

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 8000 South Chester St.  
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 No Revisions:  
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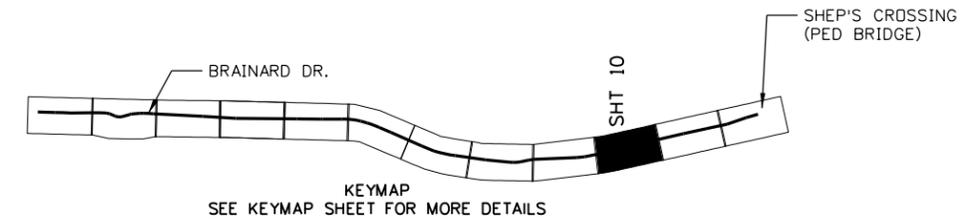
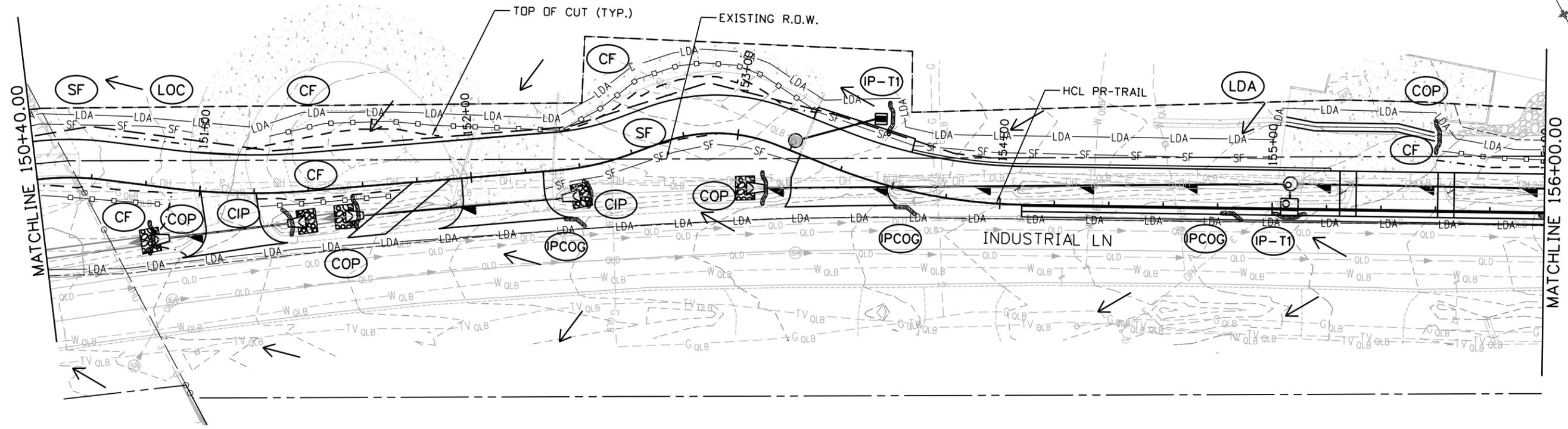
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 INITIAL/INTERIM PHASE**

Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP

Checker: D. DYER  
 Subset Sheets: 09 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **89**

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**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

**SWMP LEGEND:**

(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC)	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
(CIP) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (COCONUT)	(SSA) STABILIZED STAGING AREA	(TST) TEMPORARY SEDIMENT TRAP
(COP) CULVERT OUTLET PROTECTION	(IP-T1) INLET PROTECTION (TYPE 1)	(SF) SILT FENCE	(VTP) VEHICLE TRACKING PAD
(CWS) CONCRETE WASHOUT STRUCTURE	(IPCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG)	(SMC) SEEDING, MULCHING	FLOW ARROW
(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

All seals for this set of drawings are applied to the cover page(s)

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 Horiz. Scale: 1"=40' Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

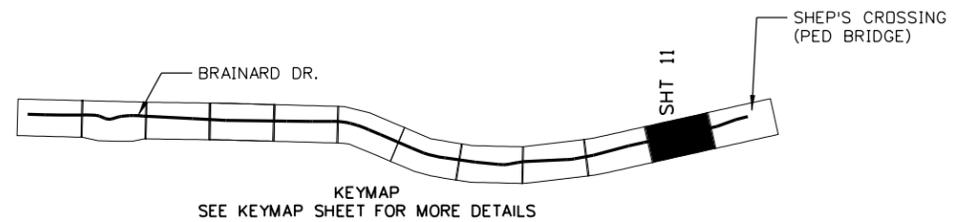
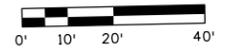
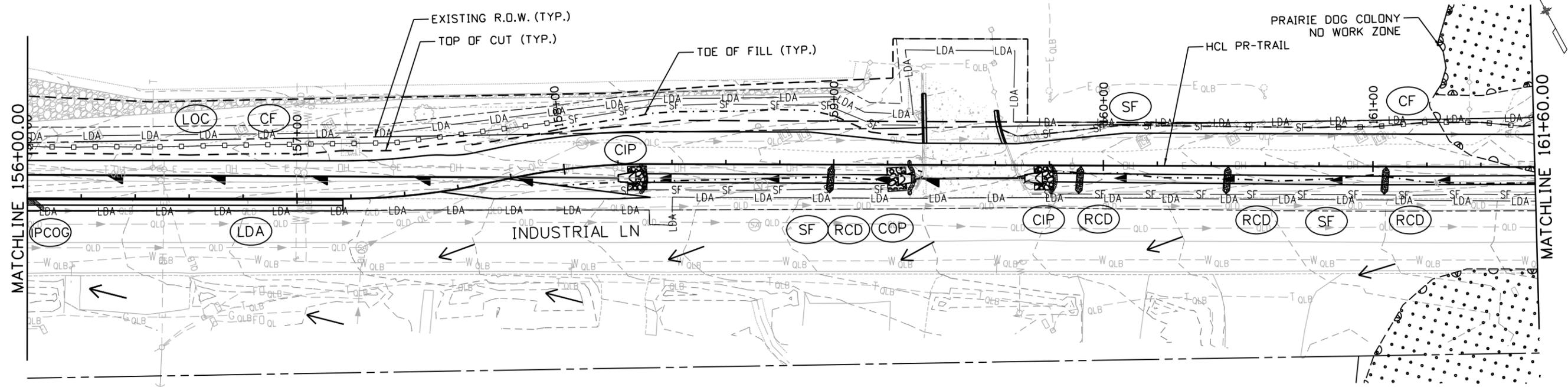
As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 INITIAL/INTERIM PHASE**

Designer: A. HERNANDEZ  
 Checker: D. DYER  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP Subset Sheets: 10 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **90**

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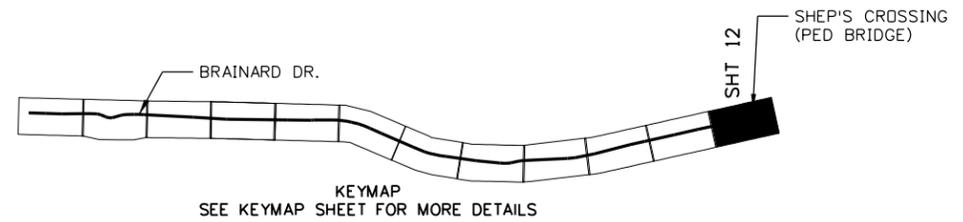
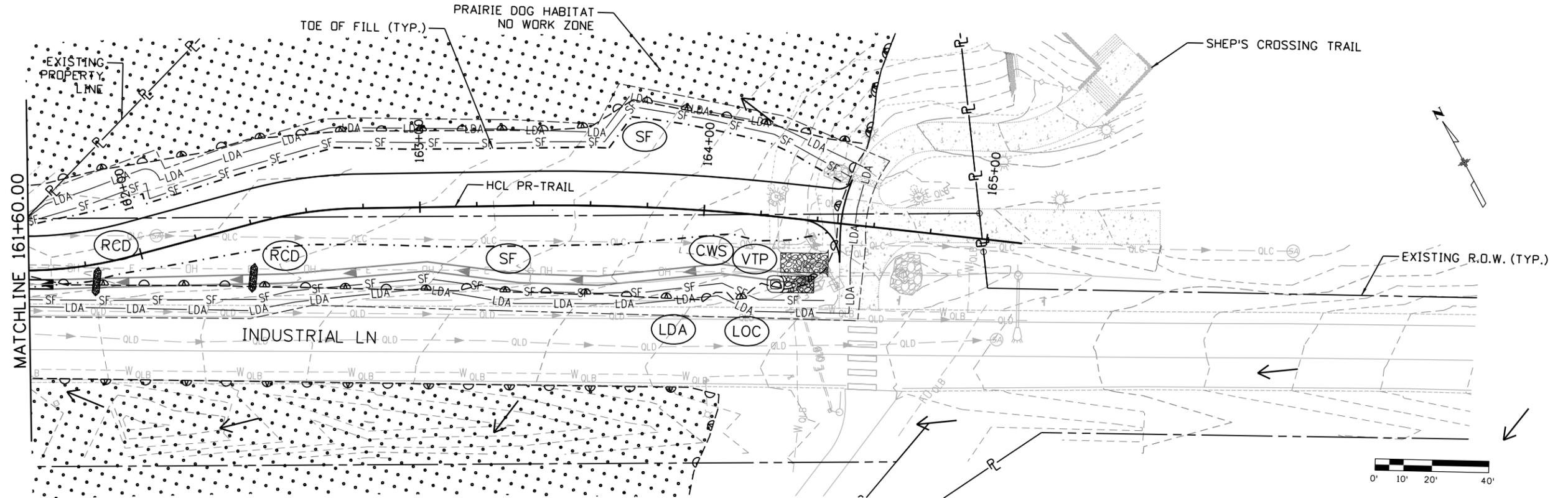
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|-----------------------------------|---|----------------------------------|--|
| (RCD) ROCK CHECK DAM CONSTRUCTION | (SRB) SOIL RETENTION BLANKET (STRAW)                    | (ABS) AGGREGATE BAG IN SWALE     | (LDA) LIMITS OF DISTURBANCE              |
| (CF) FENCE (FENCE PLASTIC)        | (SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)            | (EL) EROSION LOG TYPE 2 (8 INCH) | (LOC) LIMITS OF CONSTRUCTION             |
| (CIP) CULVERT INLET PROTECTION    | (SRB) SOIL RETENTION BLANKET (COCONUT)                  | (SSA) STABILIZED STAGING AREA    | (TST) TEMPORARY SEDIMENT TRAP            |
| (COP) CULVERT OUTLET PROTECTION   | (IP-T1) INLET PROTECTION (TYPE 1)                       | (SF) SILT FENCE                  | (VTP) VEHICLE TRACKING PAD               |
| (CWS) CONCRETE WASHOUT STRUCTURE  | (IP-COG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG) | (SMC) SEEDING, MULCHING          | FLOW ARROW                               |
| (DD) DIVERSION DITCH              | (AG) AGGREGATE BAG                                      | (SR) SURFACE ROUGHING            | NO PARKING, NO STAGING, AND NO WORK AREA |

**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

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	File Name: 30322_SWMP I&I 2.0.dgn	Date:	Comments:	Init.:			No Revisions:	<b>STORMWATER MANAGEMENT PLAN</b>			STU M145-013
	Horiz. Scale: 1"=40'    Vert. Scale: As Noted						Revised:	Designer: A. HERNANDEZ	Checker: D. DYER		
	Unit Information						Void:	Sheet Subset: SWMP    Subset Sheets: 11 of 12			23593
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806							Sheet Number <b>91</b>				

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**NOTES/ADDITIONAL ITEMS:**

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- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

**SWMP LEGEND:**

(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC)	(SRB) SOIL RETENTION BLANKET (COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
(CIP) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (COCONUT)	(SSA) STABILIZED STAGING AREA	(TST) TEMPORARY SEDIMENT TRAP
(COP) CULVERT OUTLET PROTECTION	(IP-T1) INLET PROTECTION (TYPE 1)	(SF) SILT FENCE	(VTP) VEHICLE TRACKING PAD
(CWS) CONCRETE WASHOUT STRUCTURE	(PCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG)	(SMC) SEEDING, MULCHING	FLOW ARROW
(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

All seals for this set of drawings are applied to the cover page(s)

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Unit Information

Stanley Consultants inc. 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806

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Date:	Comments	Init.



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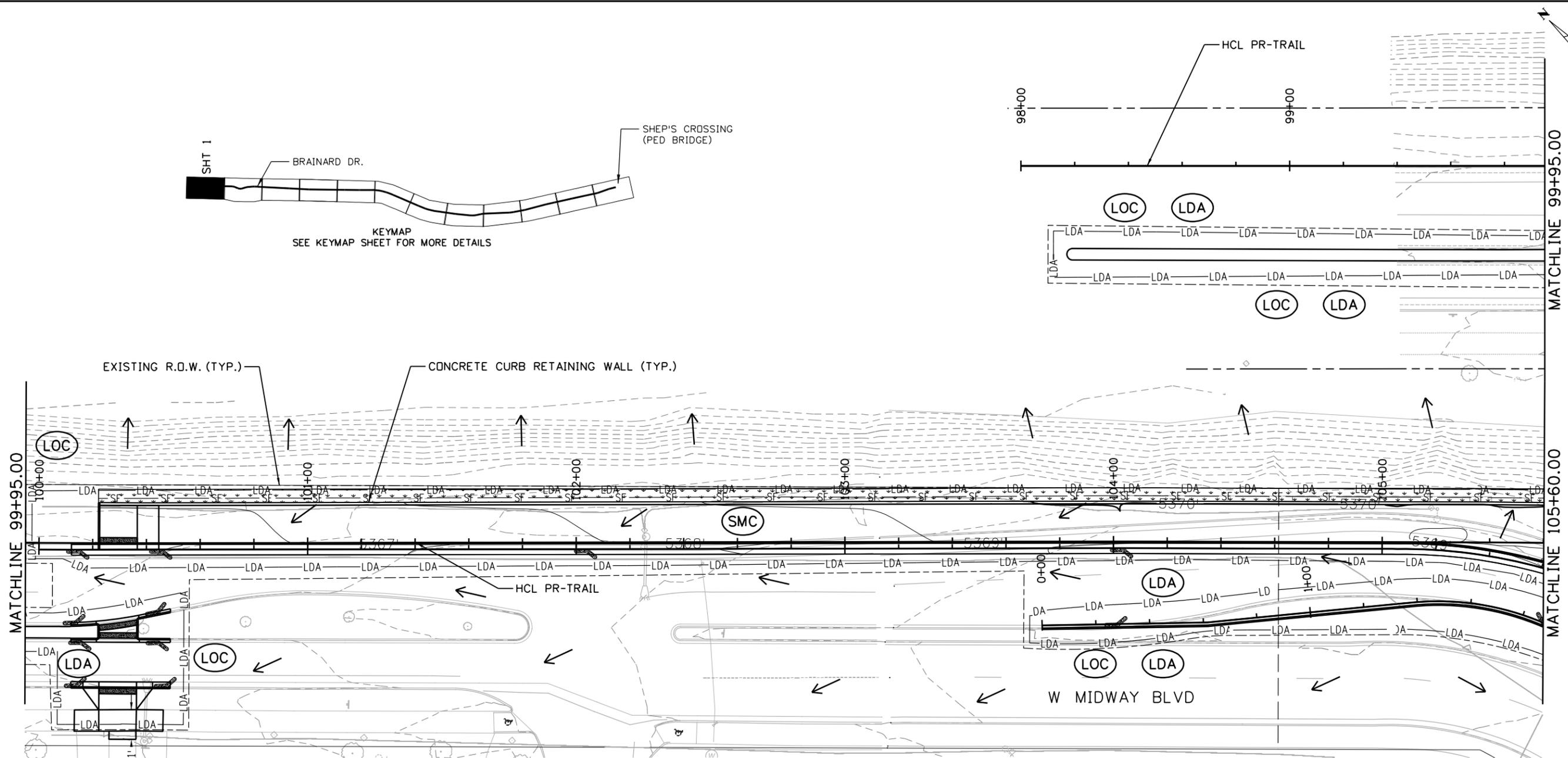
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed
No Revisions:
Revised:
Void:

INDUSTRIAL LANE BIKEWAY PHASE 2 STORMWATER MANAGEMENT PLAN INITIAL/INTERIM PHASE			
Designer: A. HERNANDEZ	Checker: D. DYER		
Detailer: A. HERNANDEZ			
Sheet Subset: SWMP	Subset Sheets: 12 of 12		

Project No./Code	STU M145-013
	23593
Sheet Number	92

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**SWMP LEGEND:**

- |                                   |  |                                  |   |
|-----------------------------------|--|----------------------------------|---|
| (RCD) ROCK CHECK DAM CONSTRUCTION | (SRB) SOIL RETENTION BLANKET (STRAW)                   | (ABS) AGGREGATE BAG IN SWALE     | (LDA) LIMITS OF DISTURBANCE                           |
| (CF) FENCE (FENCE PLASTIC)        | (SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)           | (EL) EROSION LOG TYPE 2 (8 INCH) | (LOC) LIMITS OF CONSTRUCTION                          |
| (CIP) CULVERT INLET PROTECTION    | (SRB) SOIL RETENTION BLANKET (COCONUT)                 | (SSA) STABILIZED STAGING AREA    | (TST) TEMPORARY SEDIMENT TRAP                         |
| (COP) CULVERT OUTLET PROTECTION   | (IP-T1) INLET PROTECTION (TYPE 1)                      | (SF) SILT FENCE                  | (VTP) VEHICLE TRACKING PAD                            |
| (CWS) CONCRETE WASHOUT STRUCTURE  | (IPCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG) | (SMC) SEEDING, MULCHING          | (Flow Arrow) FLOW ARROW                               |
| (DD) DIVERSION DITCH              | (AG) AGGREGATE BAG                                     | (SR) SURFACE ROUGHING            | (No Parking) NO PARKING, NO STAGING, AND NO WORK AREA |

**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

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 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
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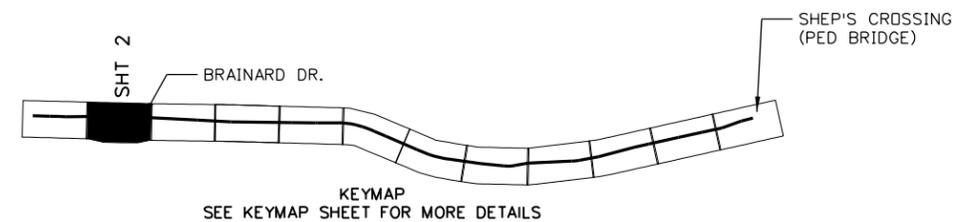
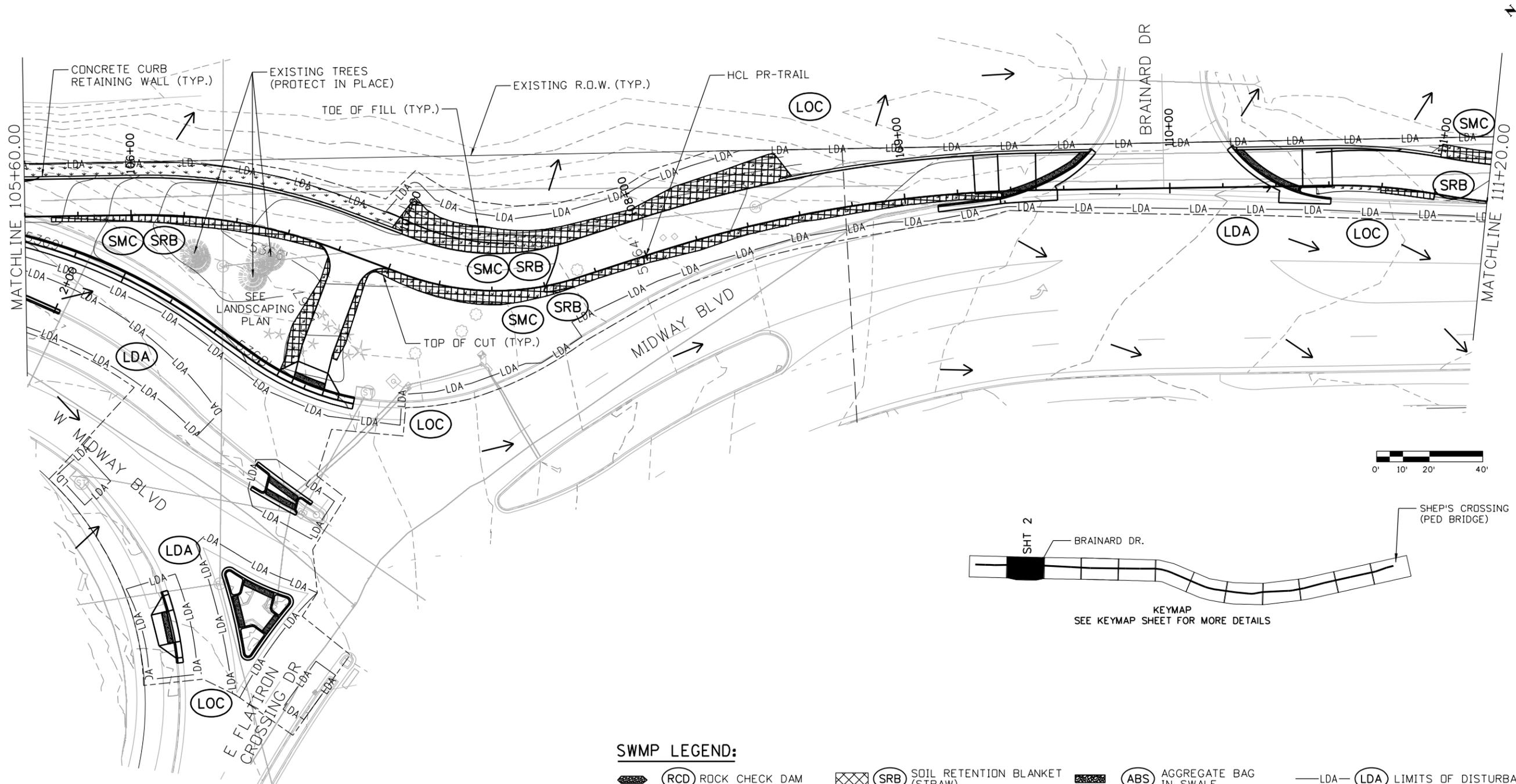
As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 FINAL PHASE**

Designer: A. HERNANDEZ    Checker: D. DYER  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP    Subset Sheets: 01 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **93**

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**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
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**SWMP LEGEND:**

(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC)	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
(CIP) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (COCONUT)	(SSA) STABILIZED STAGING AREA	(TST) TEMPORARY SEDIMENT TRAP
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(CWS) CONCRETE WASHOUT STRUCTURE	(IPCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG)	(SMC) SEEDING, MULCHING	FLOW ARROW
(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

All seals for this set of drawings are applied to the cover page(s)

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Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

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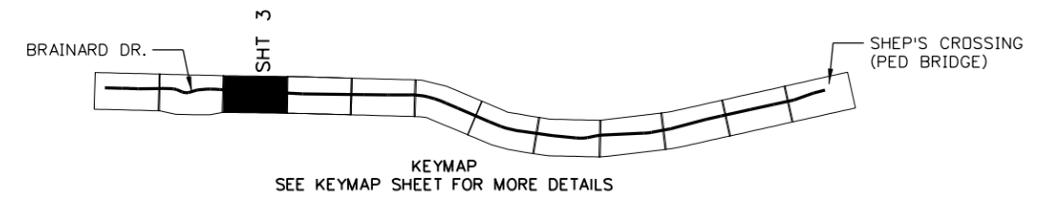
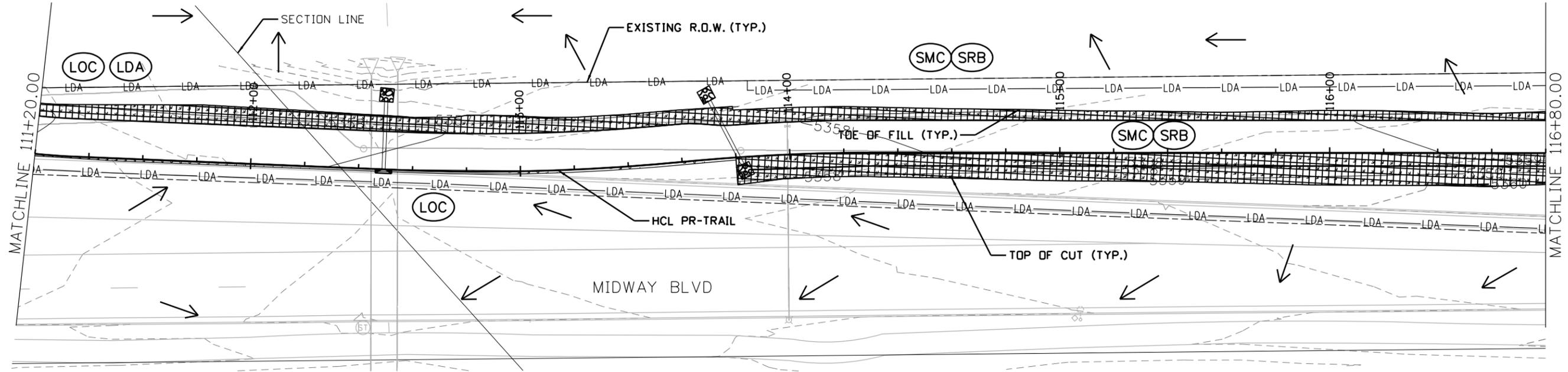
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 FINAL PHASE**

Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP

Checker: D. DYER  
 Subset Sheets: 02 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **94**

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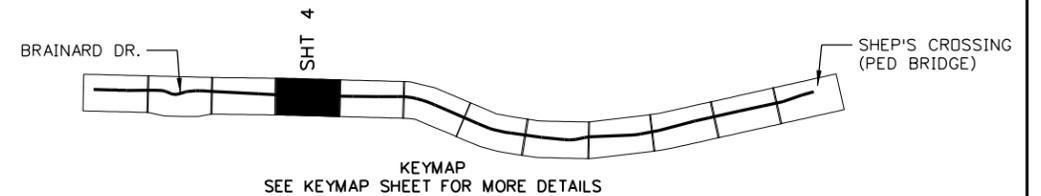
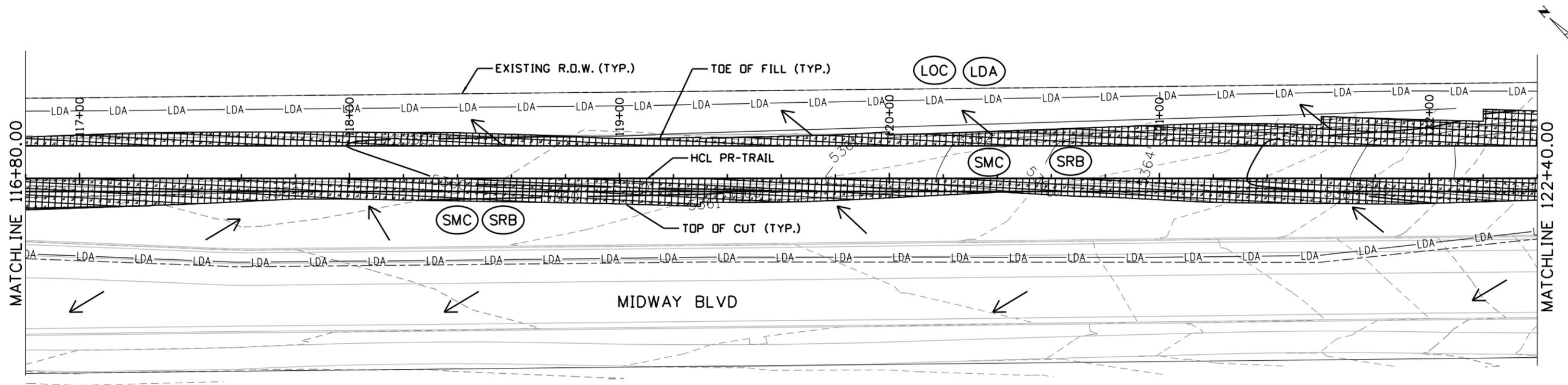
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|-----------------------------------|--|----------------------------------|--|
| (RCD) ROCK CHECK DAM CONSTRUCTION | (SRB) SOIL RETENTION BLANKET (STRAW)                   | (ABS) AGGREGATE BAG IN SWALE     | (LDA) LIMITS OF DISTURBANCE              |
| (CF) FENCE (FENCE PLASTIC)        | (SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)           | (EL) EROSION LOG TYPE 2 (8 INCH) | (LOC) LIMITS OF CONSTRUCTION             |
| (CIP) CULVERT INLET PROTECTION    | (SRB) SOIL RETENTION BLANKET (COCONUT)                 | (SSA) STABILIZED STAGING AREA    | (TST) TEMPORARY SEDIMENT TRAP            |
| (COP) CULVERT OUTLET PROTECTION   | (IP-T1) INLET PROTECTION (TYPE 1)                      | (SF) SILT FENCE                  | (VTP) VEHICLE TRACKING PAD               |
| (CWS) CONCRETE WASHOUT STRUCTURE  | (IPCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG) | (SMC) SEEDING, MULCHING          | FLOW ARROW                               |
| (DD) DIVERSION DITCH              | (AG) AGGREGATE BAG                                     | (SR) SURFACE ROUGHING            | NO PARKING, NO STAGING, AND NO WORK AREA |

**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

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	File Name: 30322_SWMP_Final 2.0.dgn	Date:	Comments:	Init.				STU M145-013		
	Horiz. Scale: 1"=40'    Vert. Scale: As Noted							23593		
	Unit Information							Sheet Number <b>95</b>		
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Designer: A. HERNANDEZ    Checker: D. DYER Detailer: A. HERNANDEZ Sheet Subset: SWMP    Subset Sheets: 03 of 12									

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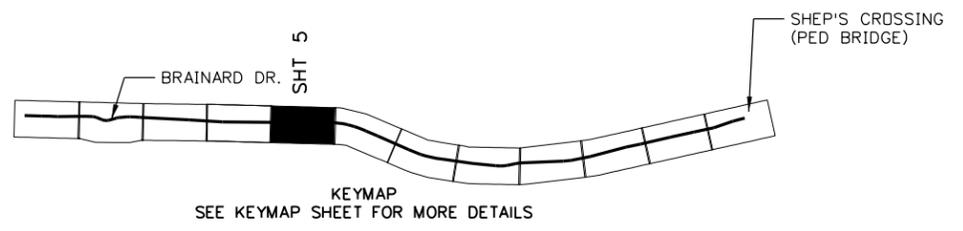
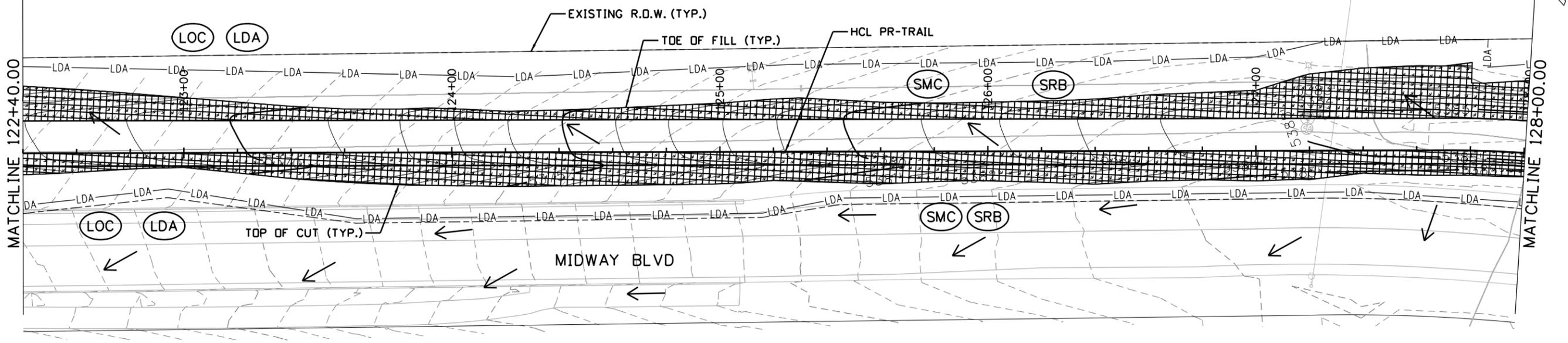
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|-----------------------------------|--|----------------------------------|--|
| (RCD) ROCK CHECK DAM CONSTRUCTION | (SRB) SOIL RETENTION BLANKET (STRAW)                   | (ABS) AGGREGATE BAG IN SWALE     | (LDA) LIMITS OF DISTURBANCE              |
| (CF) FENCE (FENCE PLASTIC)        | (SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)           | (EL) EROSION LOG TYPE 2 (8 INCH) | (LOC) LIMITS OF CONSTRUCTION             |
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| (DD) DIVERSION DITCH              | (AG) AGGREGATE BAG                                     | (SR) SURFACE ROUGHING            | NO PARKING, NO STAGING, AND NO WORK AREA |

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	Horiz. Scale: 1"=40'    Vert. Scale: As Noted						Revised:	Designer: A. HERNANDEZ	Checker: D. DYER		
	Unit Information						Void:	FINAL PHASE			23593
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					Sheet Subset: SWMP	Subset Sheets: 04 of 12	Sheet Number <b>96</b>				

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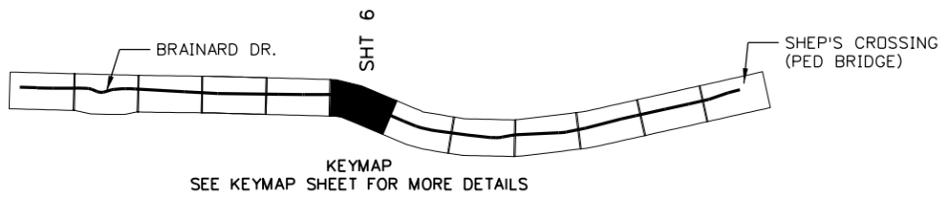
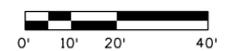
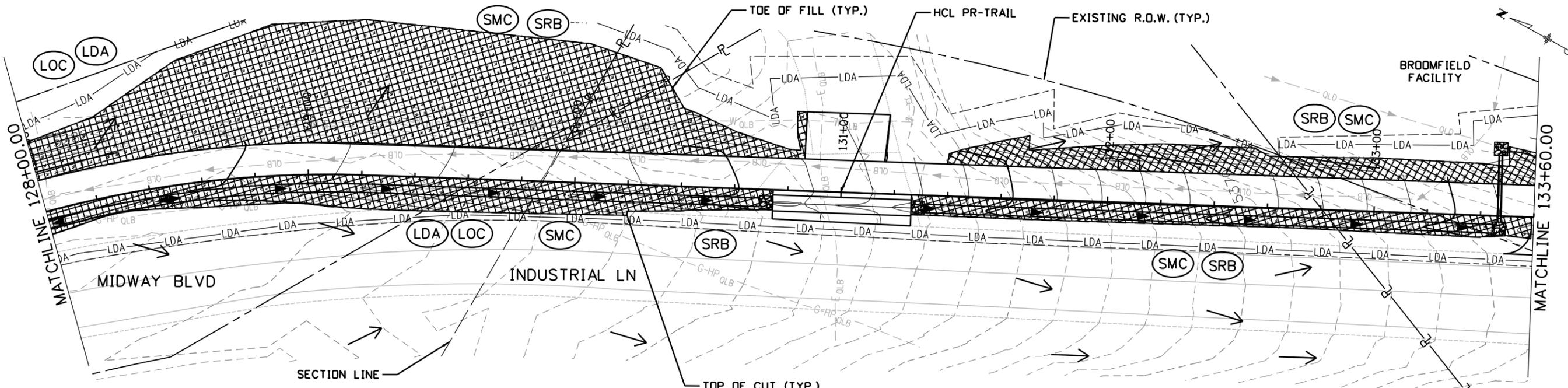
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| (DD) DIVERSION DITCH              | (AG) AGGREGATE BAG                                     | (SR) SURFACE ROUGHING            | NO PARKING, NO STAGING, AND NO WORK AREA |

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	File Name: 30322_SWMP_Final 2.0.dgn	Date:	Comments:	Init.				STU M145-013		
	Horiz. Scale: 1"=40' Vert. Scale: As Noted							23593		
	Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806							Sheet Number <b>97</b>		

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**SWMP LEGEND:**

(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC)	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
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 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

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 No Revisions:  
 Revised:  
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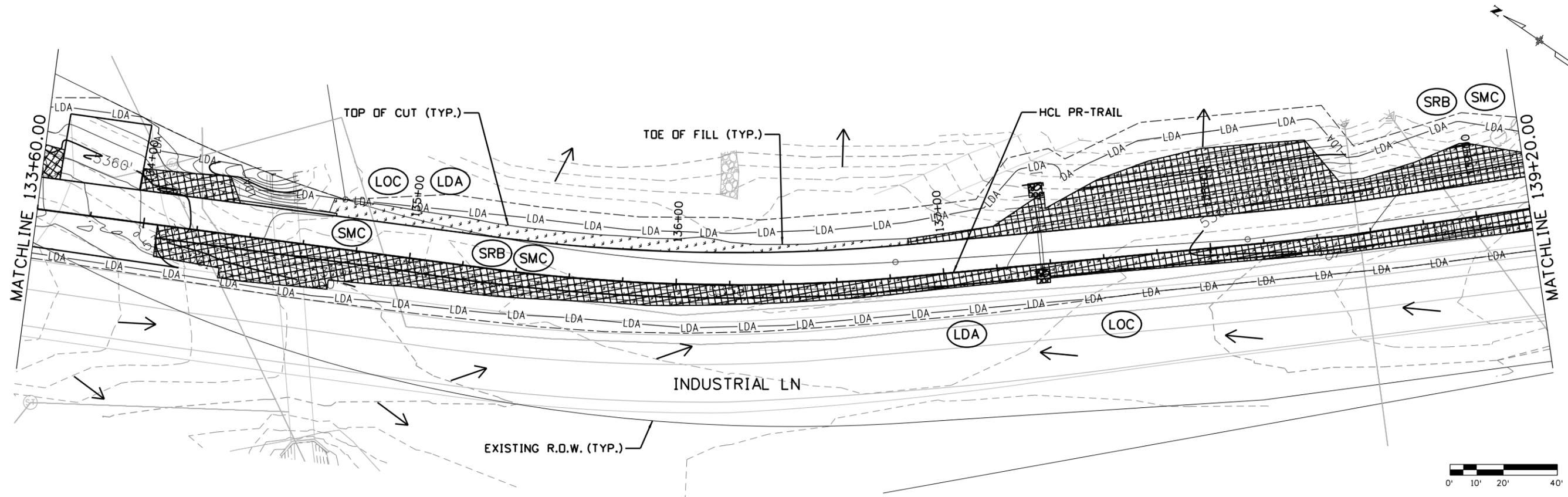
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 FINAL PHASE**

Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP

Checker: D. DYER  
 Subset Sheets: 06 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **98**

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**SWMP LEGEND:**

(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC)	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
(CIP) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (COCONUT)	(SSA) STABILIZED STAGING AREA	(TST) TEMPORARY SEDIMENT TRAP
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(CWS) CONCRETE WASHOUT STRUCTURE	(IPCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG)	(SMC) SEEDING, MULCHING	FLOW ARROW
(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/26/2024  
 File Name: 30322\_SWMP\_Final 2.0.dgn  
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 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
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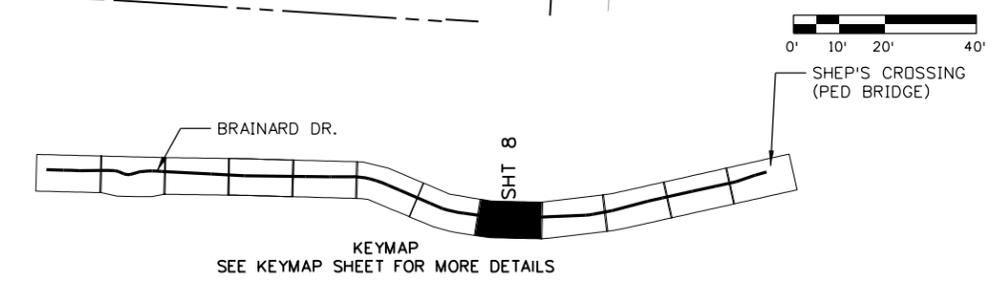
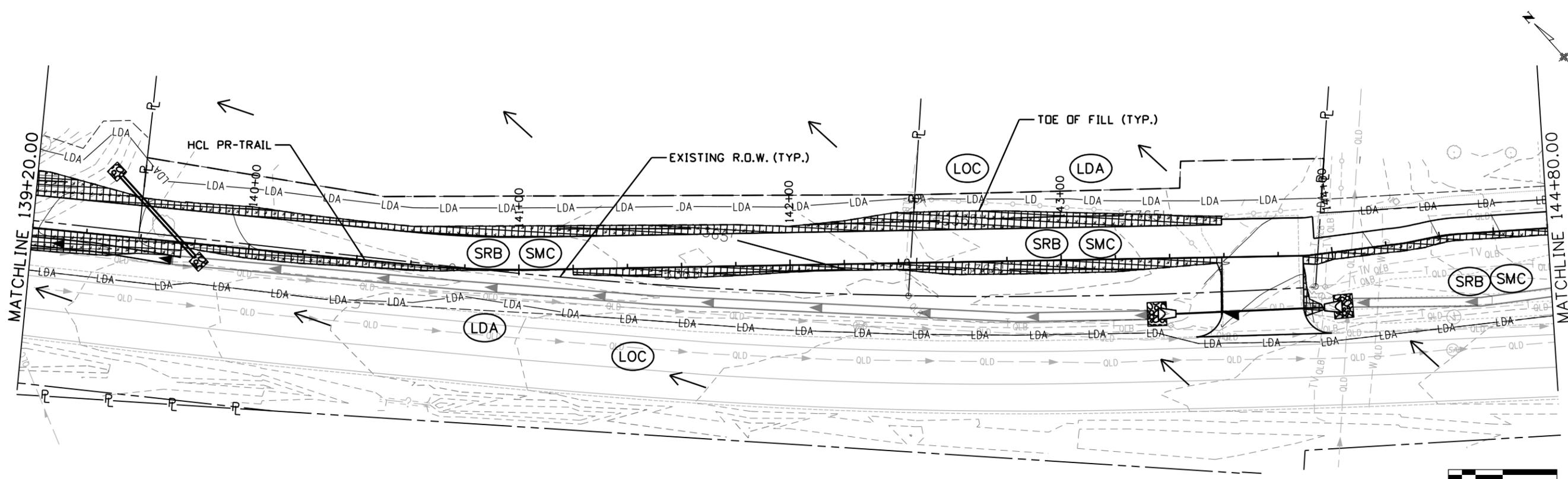
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 STORMWATER MANAGEMENT PLAN  
 FINAL PHASE**

Designer: A. HERNANDEZ  
 Detailer: A. HERNANDEZ  
 Sheet Subset: SWMP

Checker: D. DYER  
 Subset Sheets: 07 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **99**

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**SWMP LEGEND:**

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| (COP) CULVERT OUTLET PROTECTION   | (IP-T1) INLET PROTECTION (TYPE 1)                      | (SF) SILT FENCE                  | (VTP) VEHICLE TRACKING PAD               |
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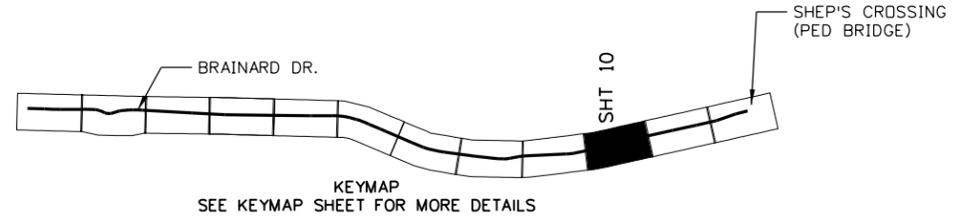
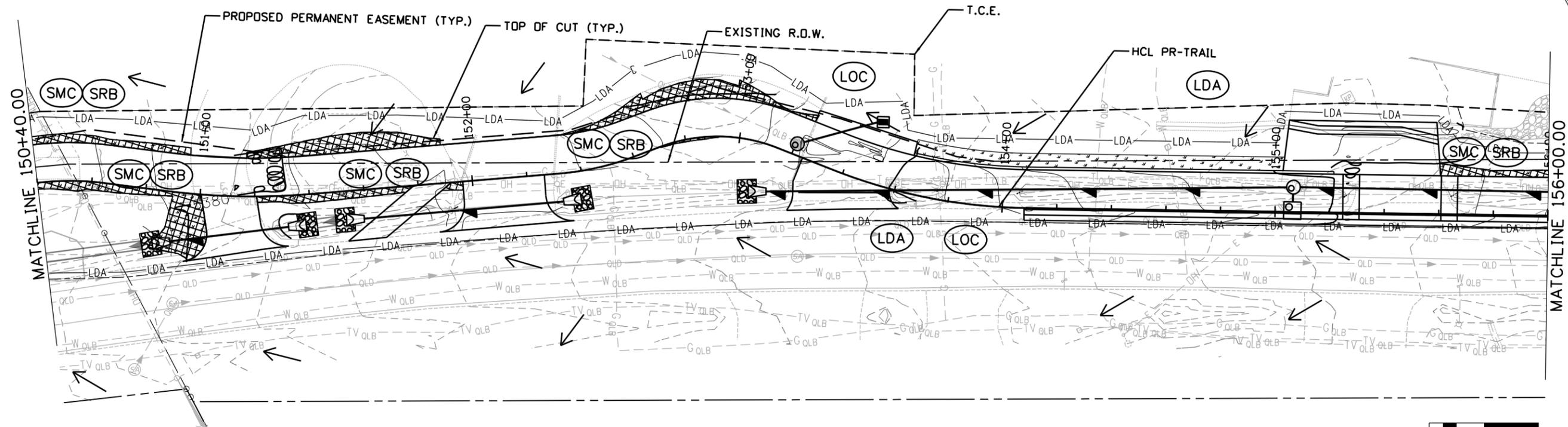
**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/26/2024 File Name: 30322_SWMP_Final 2.0.dgn Horiz. Scale: 1"=40'    Vert. Scale: As Noted Unit Information	<table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Sheet Revisions			Date:	Comments	Init.										ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed No Revisions: Revised: Void:	<b>INDUSTRIAL LANE BIKEWAY PHASE 2 STORMWATER MANAGEMENT PLAN FINAL PHASE</b>	Project No./Code STU M145-013 23593 Sheet Number <b>100</b>
	Sheet Revisions																				
	Date:	Comments	Init.																		
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806 	Designer: A. HERNANDEZ Checker: D. DYER Detailer: A. HERNANDEZ Sheet Subset: SWMP    Subset Sheets: 08 of 12	No Parking, No Staging, and No Work Area	SHEP'S CROSSING (PED BRIDGE)																		



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 8000 South Chester St.  
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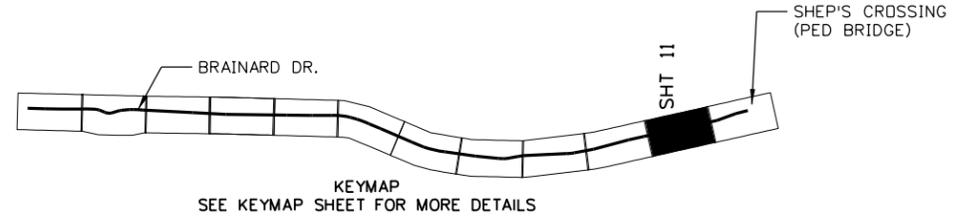
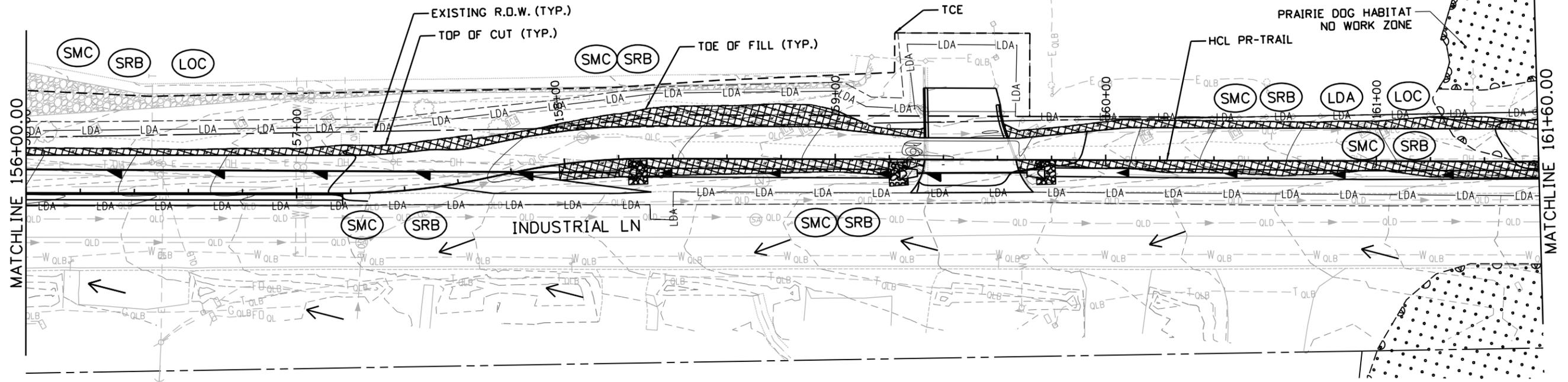
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 Sheet Subset: SWMP

Checker: D. DYER  
 Subset Sheets: 10 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **102**

10:47 11:20:57 AM p:\1\SC1-PWINTG-2.stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2 11-CADD\Worksets\30322.01\Drawings\Design Sheets\30322\_SWMP\_Final 2.0



**SWMP LEGEND:**

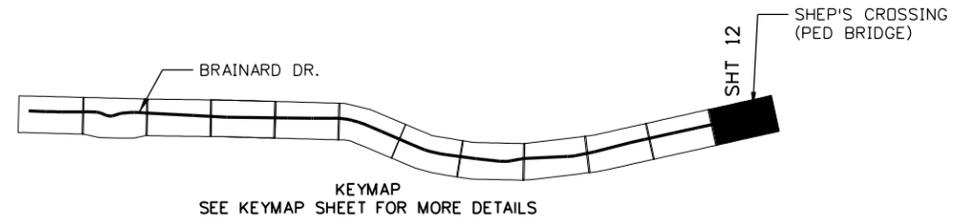
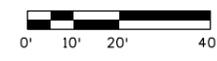
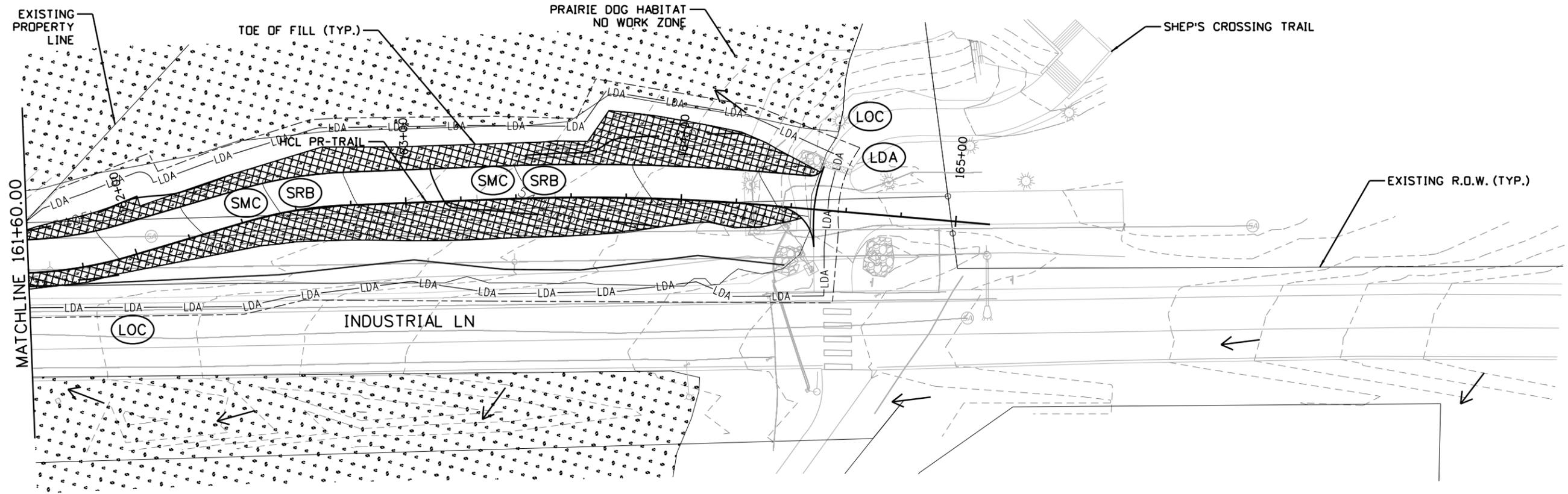
(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC)	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
(CIP) CULVERT INLET PROTECTION	(SRB) SOIL RETENTION BLANKET (COCONUT)	(SSA) STABILIZED STAGING AREA	(TST) TEMPORARY SEDIMENT TRAP
(COP) CULVERT OUTLET PROTECTION	(IP-T1) INLET PROTECTION (TYPE 1)	(SF) SILT FENCE	(VTP) VEHICLE TRACKING PAD
(CWS) CONCRETE WASHOUT STRUCTURE	(IPCOG) INLET PROTECTION CURB ON GRADE (AGGREGATE BAG)	(SMC) SEEDING, MULCHING	FLOW ARROW
(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
- SEE TRAIL PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/26/2024	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code	
	File Name: 30322_SWMP_Final 2.0.dgn	Date:	Comments:	Init.:			No Revisions:	STORMWATER MANAGEMENT PLAN			STU M145-013
	Horiz. Scale: 1"=40'    Vert. Scale: As Noted						Revised:	Designer: A. HERNANDEZ	Checker: D. DYER		
	Unit Information						Void:	FINAL PHASE			23593
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					Sheet Subset: SWMP	Subset Sheets: 11 of 12	Sheet Number <b>103</b>				

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**SWMP LEGEND:**

(RCD) ROCK CHECK DAM CONSTRUCTION	(SRB) SOIL RETENTION BLANKET (STRAW)	(ABS) AGGREGATE BAG IN SWALE	(LDA) LIMITS OF DISTURBANCE
(CF) FENCE (FENCE PLASTIC)	(SRB) SOIL RETENTION BLANKET (STRAW/COCONUT)	(EL) EROSION LOG TYPE 2 (8 INCH)	(LOC) LIMITS OF CONSTRUCTION
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(DD) DIVERSION DITCH	(AG) AGGREGATE BAG	(SR) SURFACE ROUGHING	NO PARKING, NO STAGING, AND NO WORK AREA

**NOTES/ADDITIONAL ITEMS:**

- SEE CDDT M-208-1 FOR TEMPORARY EROSION CONTROL STANDARD DETAILS.
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	File Name: 30322_SWMP_Final 2.0.dgn	Date:	Comments:	Init.:			No Revisions:	STORMWATER MANAGEMENT PLAN			STU M145-013
	Horiz. Scale: 1"=40'    Vert. Scale: As Noted						Revised:	Designer: A. HERNANDEZ	Checker: D. DYER		
	Unit Information						Void:	Detailer: A. HERNANDEZ			23593
8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					Sheet Subset: SWMP	Subset Sheets: 12 of 12	Sheet Number <b>104</b>				

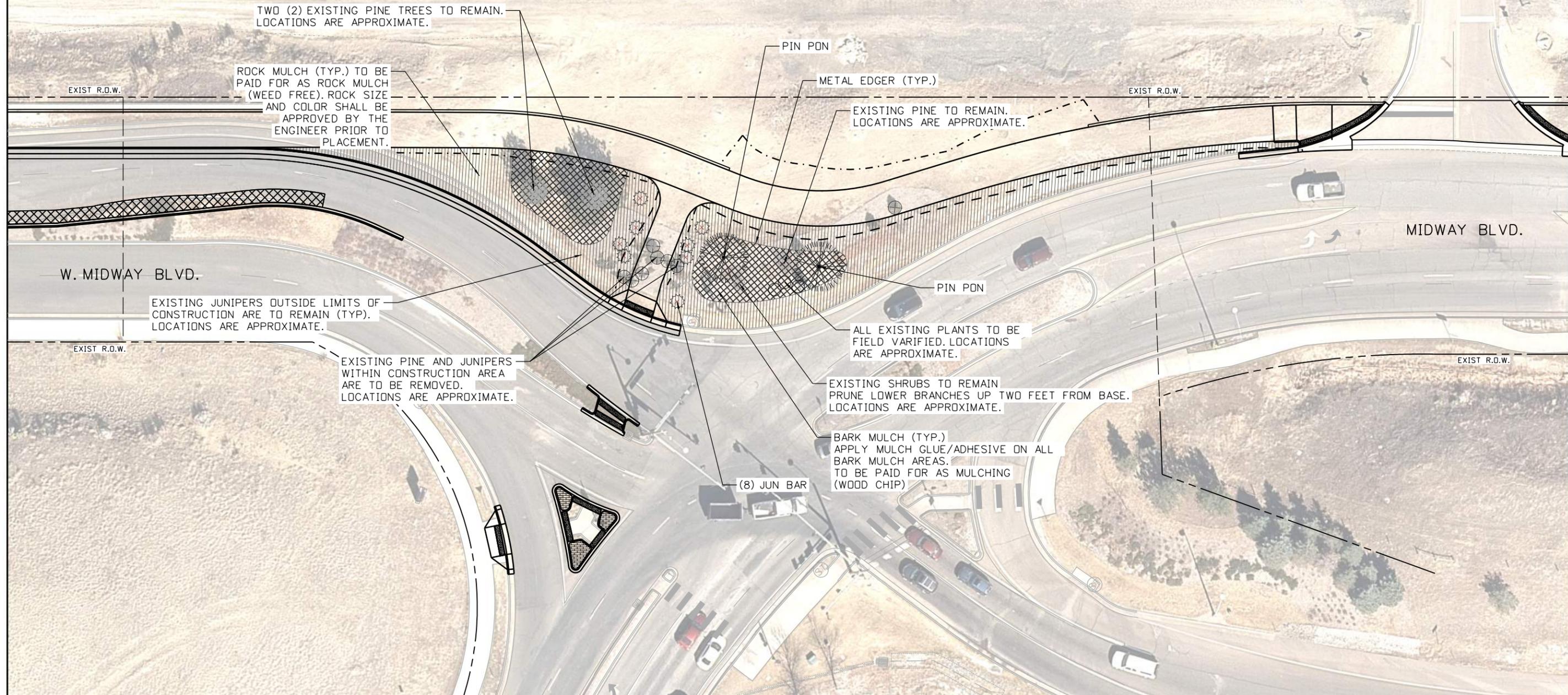
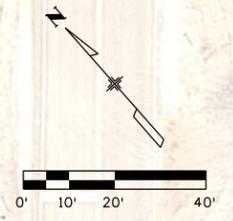
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**PLANT SCHEDULE**

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS
	PIN PON	2	PINUS PONDEROSA	PONDEROSA PINE	8' HT	B&B	
	JUN BAR	8	JUNIPERUS	JUNIPER SHRUB		5 GAL	

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
213-00008	MULCHING (WOOD CHIP)	CF	782
213-00067	ROCK MULCH (WEED FREE)	SF	6005
213-00470	METAL LANDSCAPE BORDER (1/4x5 INCH)	LF	284
214-00508	EVERGREEN TREE (8FOOT) (BALL AND BURLAP)	EACH	2
214-00650	EVERGREEN SHRUB (5 GALLON CONTAINER)	EACH	8

- NOTES:
1. APPLY MULCH GLUE/ADHESIVE ON ALL MULCH BARK AREAS. ADHESIVE IS INCLUDED IN THE COST OF MULCHING (WOOD CHIP)
  2. MULCHING (WOOD CHIP) SHALL BE PLACED AT A DEPTH OF 4 INCHES.
  3. SEE IRRIGATION PLAN FOR IRRIGATION PLAN.



All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/23/2024  
 File Name: Indy\_Lane\_Landscape Plan 01.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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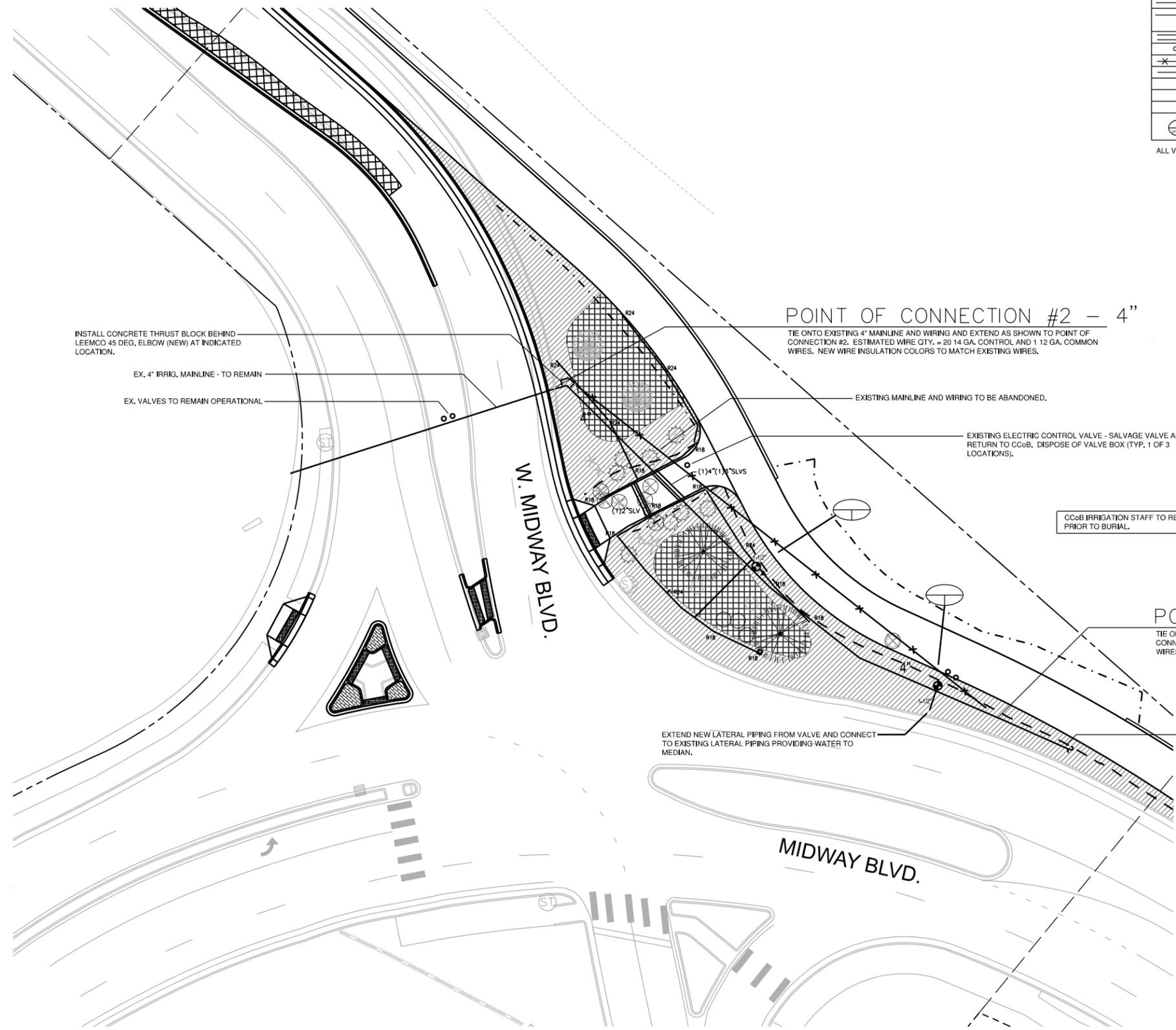
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 LANDSCAPE PLAN**

Designer: R. DUZAN  
 Checker:  
 Detailer: C. ATWATEER  
 Sheet Subset: LANDSCAPE  
 Subset Sheets: 01 of 01

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **105**



Irrigation Equipment and Materials Schedule					
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.	COMMENTS
R18	RAIN BIRD	RD12-S-P45-F-NP W/ R-VAN18 NOZZ	HI-POP HEAD W/ ROTARY NOZZ.	2	
R24	RAIN BIRD	RD12-S-P45-F-NP W/ R-VAN18 NOZZ	HI-POP HEAD W/ ROTARY NOZZ.	2	
▼	RAIN BIRD	5RC		4	
⊙	RAIN BIRD	PES-B SERIES	ELECTRIC CONTROL VALVE	3	
		CLASS 200 GASKETED	PVC MAINLINE		
		CLASS 200 SOLVENT WELD - 1" DIA. UNLESS NOTED OTHERWISE	PVC LATERAL	3	
		CLASS 200 SOLVENT WELD	PVC SLEEVING		
○	EXISTING		ELECTRIC CONTROL VALVE		
-X-X-	EXISTING		MAINLINE TO BE ABANDONED		
	EXISTING		MAINLINE TO REMAIN INTACT		

CONTROLLER & STATION NO. \_\_\_\_\_  
CONTROL VALVE SIZE \_\_\_\_\_

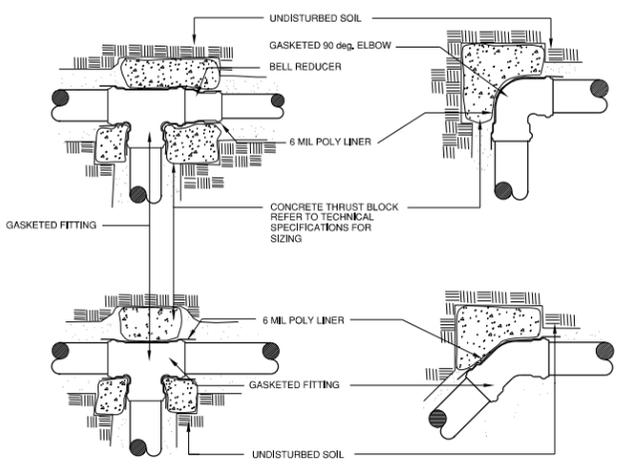
ALL VALVE BOXES TO HAVE PURPLE LIDS/COVERS

**Irrigation Construction Notes**

- REFER TO TECHNICAL SPECIFICATIONS AND CONSTRUCTION DETAILS FOR INSTALLATION PROCEDURES.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF SLEEVING WITH INSTALLATION OF CONCRETE FLATWORK AND PAVING. ALL SLEEVING IS BY CONTRACTOR UNLESS OTHERWISE NOTED. UNLESS NOTED OTHERWISE ON IRRIGATION PLANS INSTALL SLEEVING BASED ON SLEEVE SIZING GUIDE BELOW:  

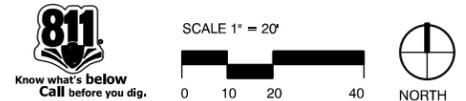
PIPE SIZE OR WIRE QUANTITY	REQUIRED SLEEVE
1" PIPING	1-2" PVC SLEEVE
1-1/2" - 2" PIPING	1-4" PVC SLEEVE
4" PIPING	1-8" PVC SLEEVE
1-25 CONTROL WIRES	1-2" PVC SLEEVE

NOTE: EACH LENGTH OF SLEEVED PIPE SHOWN SHALL BE ROUTED THROUGH SEPARATE SLEEVE. IRRIGATION WIRE BUNDLE SHALL BE ROUTED IN SEPARATE SLEEVE/CONDUIT WITHOUT IRRIGATION PIPING
- VALVE BOXES SHALL BE LOCATED 36" MINIMUM FROM CENTERLINE OF ALL SWALES, 24" MINIMUM FROM EDGES OF ALL WALKS, CURBS, DRIVES AND OTHER HARD SURFACE AREAS.
- REFER TO IRRIGATION TECHNICAL SPECIFICATIONS FOR PLANTING AND IRRIGATION LAY-OUT REQUIREMENTS, COORDINATION AND PRIORITIES.
- LATERAL PIPING DIAMETERS SHALL INCLUDE 1", 1 1/2" AND 2", 3/4" AND 1 1/4" DIAMETER LATERAL PIPE IS NOT ACCEPTABLE.
- REFER TO "CITY AND COUNTY OF BROOMFIELD 2022 STANDARDS AND SPECIFICATIONS" SECTION 1000 FOR ADDITIONAL IRRIGATION SYSTEM CONSTRUCTION REQUIREMENTS AND DETAILS.
- ALL EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO INSTALL THE IRRIGATION SYSTEM AS DETAILED SHALL BE PAID FOR AS 623-09900 SPRINKLER SYSTEM LUMP SUM.
- SEE LANDSCAPE PLAN FOR PLANT SPECIES AND MULCHING LAYOUT INFORMATION.



REFER TO TECHNICAL SPECIFICATIONS FOR FITTING MATERIAL CONSTRUCTION

**THRUST BLOCKING**



PROJECT: **MIDWAY BLVD. IRRIGATION**  
BROOMFIELD, COLORADO

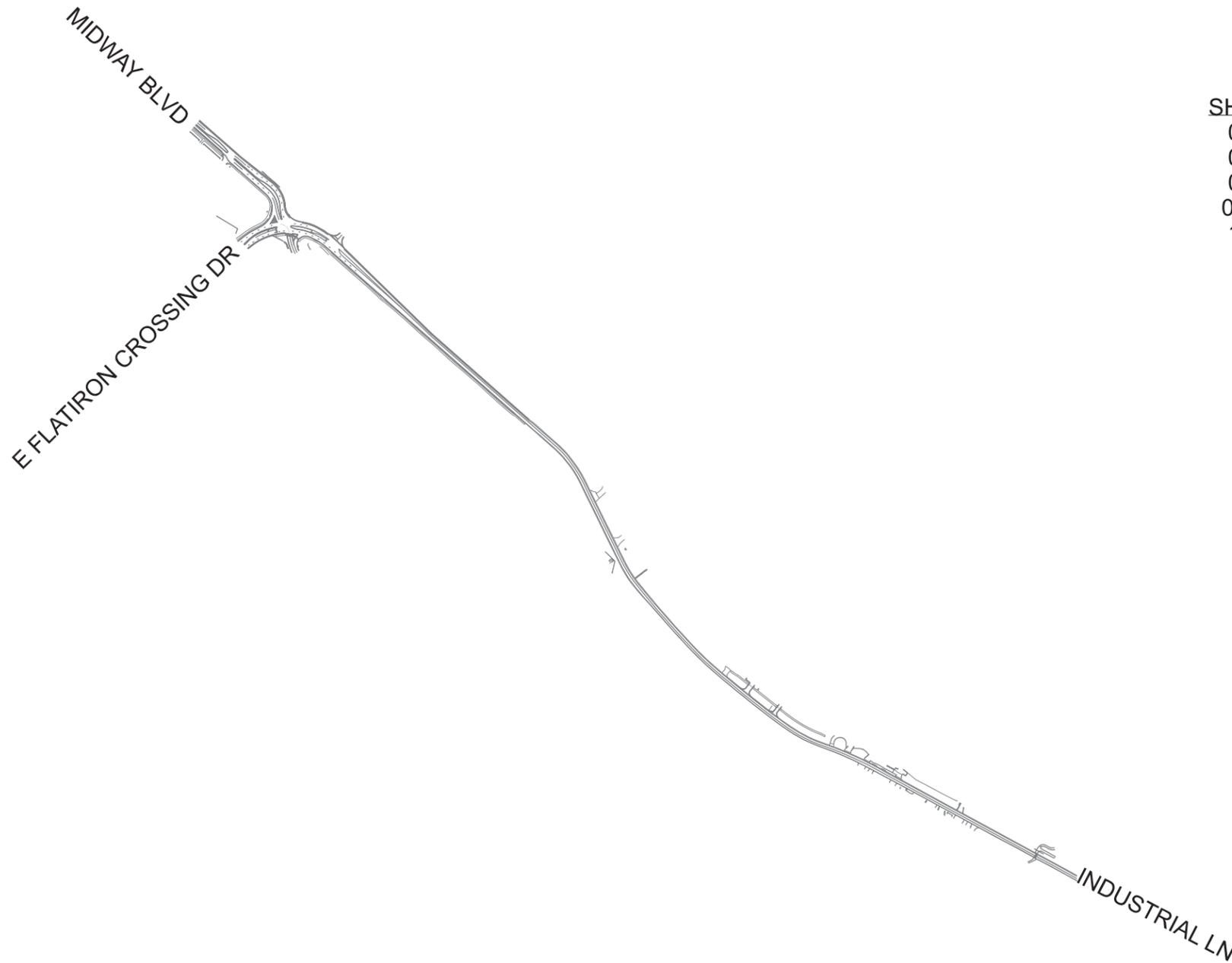
CONSTRUCTION DOCUMENTS

NO.	DESCRIPTION	DATE

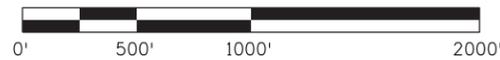
**IRRIGATION PLAN**

PROJECT NUMBER -  
DATE APRIL 18, 2014  
DRAWN BY DZ  
CHECKED BY DZ

# INDUSTRIAL LANE BIKE LANE AND SIDEWALK - PHASE 2 SUE UTILITY INVESTIGATION BROOMFIELD, CO



SHEET NO.	INDEX OF SHEETS
01	TITLE SHEET
02	GENERAL NOTES
03	KEY MAP
04-15	SUE UTILITY DRAWINGS
16	TEST HOLE INFORMATION



Digitally signed  
By Clifford R. Meis, P.E.  
Date: 2024.03.14 15:04:32 -06:00

**811**  
Know what's below  
Call before you dig.

All seals for this set of drawings are applied to the cover page(s)	Print Date: \$DATES\$	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	INDUSTRIAL LANE BIKEWAY PHASE 2 EXISTING UTILITY PLANS TITLE SHEET		Project No./Code	
	File Name: \$FILES\$		Date:	Comments			Init.			STU M145-013
	Horiz. Scale: _____ Vert. Scale: As Noted	<input type="checkbox"/>	9-13-22	Phase 1 Submittal			CWG			23593
	Unit Information	<input type="checkbox"/>	1-5-23	Phase 1 Update			CWG			Sheet Number <b>107</b>
		<input type="checkbox"/>	3-14-24	Phase 2 Test Holes	CWG					
		<input type="checkbox"/>								

**MS** UTILITY MAPPING SERVICES  
7100 N. Broadway, Unit 1D  
Denver, CO 80221  
(720)230-0780

**Survey Information:**

This plan set is an ASCE 38 compliant investigation and documentation of existing subsurface and aerial utilities as of July 2022 and is subject to increasing change over time. The survey of the Utility Features and field delineated buried utilities during the Phase 1 investigation was completed by Utility Mapping Services, P.C. (UMS) personnel. City and County of Broomfield approved survey control was used to tie all survey data to the project coordinate system. Control points 1, 2, 3, 4, and 603 were used for site calibrations. The transcription of survey data to the CAD plans was completed by UMS.

**Subsurface Utility Engineering (SUE) Notes:**

UMS was responsible for the investigation of the existing buried utilities to the extent practical and as detailed in scope of work for this project. User's of this data set must understand and adhere to the limitations associated with the Quality Level values assigned to the depicted facilities. UMS recommends that advanced geophysical survey and remote sensing methods, vacuum excavations, or other non-destructive methods be used to obtain 3D data on utilities in potential conflict with proposed design and construction. UMS strongly recommends users of this data become familiar with the ASCE 38 standard guidelines and the corresponding data limitations inferred by the Quality Level values prior to employing the data set for design purposes. In addition, the SUE report(s) for this project must always accompany the existing utility reference CAD file to ensure proper interpretation and usage of the data set.

**SUE Quality Levels:**

The SUE utility investigation activities enable the assignment of ASCE 38 "Quality Levels" to the depicted underground utilities. The following four Quality Levels are used to identify the degree of reliability to which the utilities are depicted:

**Quality Level (QL) A:** A value assigned to that portion (x, y, and z geometry) of a Utility Segment or subsurface Utility Feature that is directly exposed and measured and whose location and dimensions are tied to the Project Survey Datum. The Utility Segment or subsurface Utility Feature shall be tied to the Project Survey Datum with an accuracy of 0.1 feet (30mm) vertical and to 0.2 feet (60mm) horizontal for the measurements of the outside limits of the Utility Feature or Utility Segment that is exposed. Other measurable, observable, and judged Utility Attributes are also recorded. If obtained by means of a Test Hole observation, a verification effort is made, and professional judgment used to assert that the exposed infrastructure is indeed the sought target. The assignment of QLA conveys the lowest level of relative (non-quantifiable) uncertainty of measurable and judged Attributes, and location. QLA is more certain than QLB, QLC, or QLD.

**QLB:** A value assigned to a Utility Segment or subsurface Utility Feature for which existence and horizontal position is based upon Geophysical Methods combined with professional judgment and whose location is tied to the Project Survey Datum. A QL B value is assigned to a Utility Segment when the following conditions are met: (a) the Utility Segment was detected through the application of appropriate Geophysical Methods; (b) the geophysical signal was judged to be reliable; (c) the interpreted position was judged based upon knowledge and use of geophysical science, Utility design and installation practices, available records, visual features, and influence of site conditions; and (d) the source Designation has been tied to the Project Survey Datum with an accuracy of 0.2 feet (60 mm) horizontally. QL B is more uncertain than QL A and more certain than QL C or QL D.

**QLC:** A value assigned to a Utility Segment not visible at the ground surface for which estimated position is judged through correlating Utility records or similar evidence to Utility Features, visible aboveground and/or underground. The Utility Anchor Point on the Utility Features shall be tied to the Project Survey Datum with an accuracy of 0.2 feet (60 mm) horizontal. A QL C value judgment is assigned to a Utility Segment using visible utility features to approximate the position of a utility segment between or in proximity to visible Utility Features and in context with other achieved Utility Quality Levels. QL C only pertains to underground Utility Segment(s), not Utility Feature(s). QL C data is more certain than QL D and is more uncertain than QL B and QL A.

**QLD:** A value assigned to a Utility Segment or Utility Feature, not visible at the ground surface, for which estimated position is judged through utility records, information from others, or from visual clues such as pavement cuts, obvious trenches, or existence of service. A QL D data Attribute is assigned to a Utility segment or Utility Feature after review and compilation of existing records, oral recollections, One-Call or "private-locate" markings, managed data repositories, context with other achieved Utility Quality Levels, and/or other evidence of existence. QL D data is more uncertain than QL C, QL B, and QL A. QL D data is less uncertain than utilities documented without any Utility Quality Level barring a professional's statement of fact to the contrary.

Note - Although reproducible, QL B positions can be influenced by physical factors that distort geophysical observations and the resulting interpreted location. For example, with inductive electromagnetic methods, adjacent conductors may create secondary magnetic fields that superposition with the primary field, causing the apparent position to be slightly different from the actual position. QL C depictions do not resolve blind ties or alignment bends. FHWA information indicates that roughly 15-30% of underground utilities may be missed or depicted with more than two feet of error. QL D information is typically inadequate for design purposes.

**Disclaimer:**

A possibility exists that abandoned, forgotten, non-detectable, undocumented utilities may not be evident using standard investigation procedures. This information is for design purposes only; markings placed on the ground or depictions developed by UMS are not intended to be used in lieu of One-Call (811) ticket submissions for excavation purposes. The use of this information by others does not relieve a contractor from the duty to comply with applicable utility prevention damage laws and regulations, including but not limited to, giving notifications to utility owners or "One Call/ Call Before You Dig (811)" prior to excavation.

Refer to the American Society of Civil Engineers, Construction Institute and Utility Engineering and Surveying Institute, Standard Guideline for Investigating and Documenting Existing Utilities. Reston, VA 2022, publication for more detailed information.

\*Unless otherwise noted, all aerial installation depictions are based on surveyed pole locations or overhead line locations and apparent connectivity as observed and logged by UMS field personnel.

\*\*Aerial background Imagery is for general reference only.

**LEGEND**

---	SUE Project Limits	□	Gas Meter	⊕	Fire Hydrant
---	SUE QL D Project Limits	□	Gas Manhole	⊕	Water Meter
---E---E---	Buried Traffic Power	⊕	Gas Valve	⊕	Water Manhole
---	Buried Traffic Loops	⊕	Telephone/Cable TV Riser	⊕	Sanitary Sewer Manhole
---FO---FO---	Buried Fiber Optics	⊕	Communications Vault	⊕	Sanitary Sewer Vent
---T---OH---	Aerial Fiber Optics	⊕	Communications Manhole	⊕	Sanitary Sewer Valve
---TV---TV---	Buried Television	⊕	Electric Pullbox	⊕	Storm Drain Manhole
---TV-OH---	Aerial Television	⊕	Electric Handhole	⊕	Storm Drain Inlet
---T---T---	Buried Telephone	⊕	Electric Meter	⊕	Irrigation Junction Box
---T---OH---	Aerial Telephone	⊕	Electric Pole	⊕	Vacuum Excavation Testhole
---E---E---	Buried Electric	⊕	Guy Anchor	⊕	Monitoring Well
---E---OH---	Aerial Electric	⊕	Single Mast Traffic Signal	⊕	
---	Guy Wire	⊕	Double Mast Traffic Signal	⊕	
---G---G---	Buried Natural Gas	⊕	Light Pole	⊕	
---G---HP---	Buried High-Pressure Gas	⊕	Dual Arm Light Pole	⊕	
---D---D---	Buried Petroleum	⊕	Signal Span Pole	⊕	
---W---W---	Buried Water	⊕	Traffic Pullbox	⊕	
---	Box Culvert	⊕	Traffic Controller Cabinet	⊕	
---	Culvert	⊕	Traffic Light/Pedestrian Light	⊕	
---	Storm Drain Pipe	⊕	Water Vent	⊕	
---	Sanitary Sewer Pipe	⊕	Water Valve	⊕	
---	Box Culvert	⊕	Culvert End	⊕	



**EQUIPMENT USED**

Radiodetection RD8000 Pipe and Cable Locator  
 Trimble TSC7 Data Collector  
 Trimble R10 GNSS GPS System  
 Duct Rodder  
 PinPointR (GPR)

**ACRONYM INFORMATION**

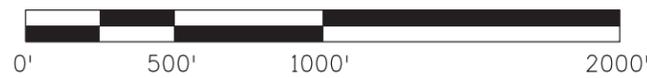
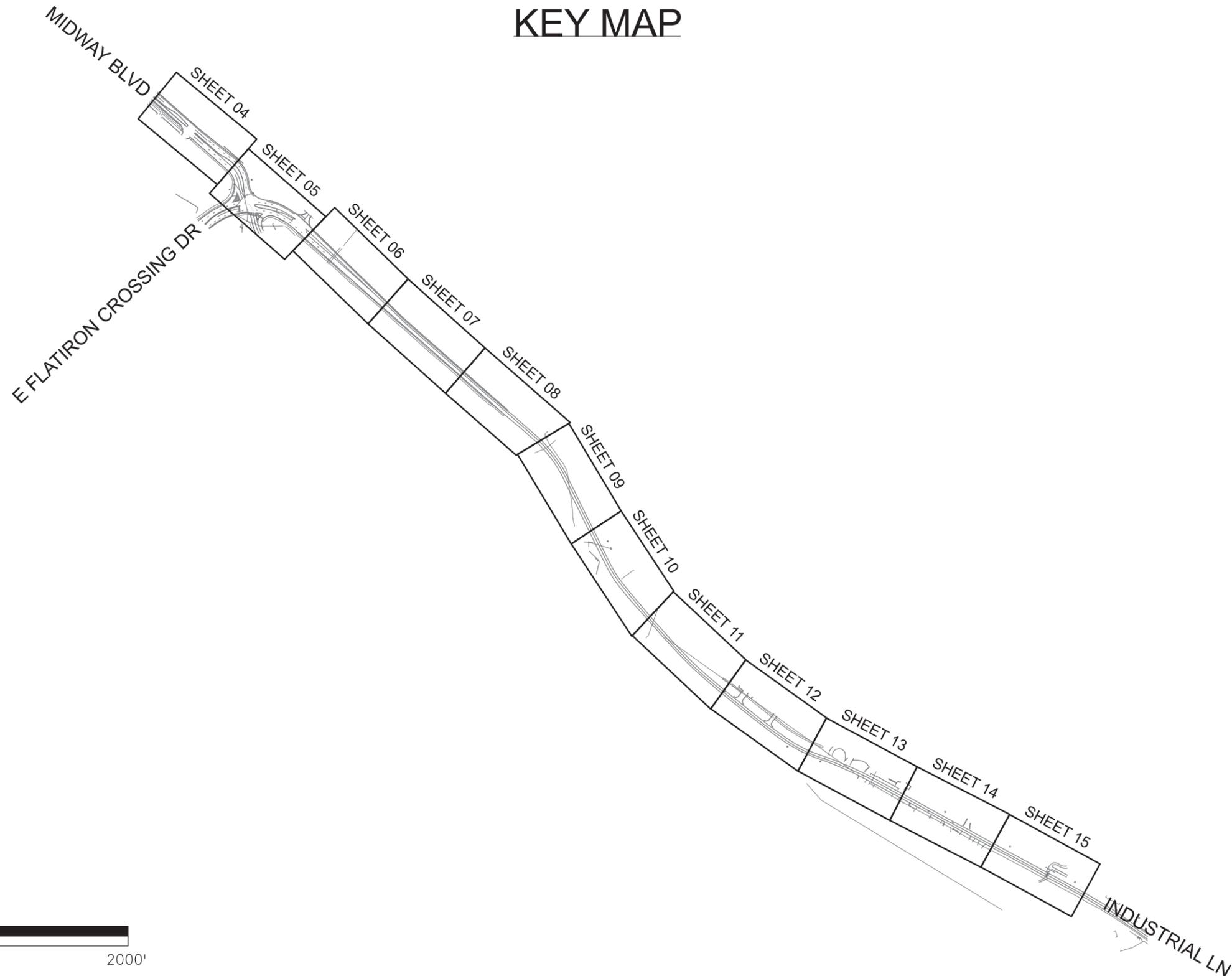
CMP - Corrugated Metal Pipe  
 CPP - Corrugated Plastic Pipe  
 CTE - Coal Tar Enamel  
 DI - Ductile Iron  
 EOI - End of Information  
 F/O - Fiber Optic  
 FBE - Fusion Bonded Epoxy  
 PE - Polyethylene  
 PVC - Polyvinyl Chloride Pipe  
 QL - Quality Level  
 RCP - Reinforced Concrete Pipe  
 SUE - Subsurface Utility Engineering

**UTILITY RECORD CONTACTS**

Utility	Utility Type	Contact	Utility Records or Correspondence Provided
City and County of Broomfield (CCOB)	Fiber, Water, Sewer	Kyla Bullock 303.438.6219 kbullock@broomfield.org	IndustrialLn_Trail.zip (containing multiple .shp files)
Comcast	CATV, Fiber	Artjahmel Davis 303.603.2682 artjahmel_davis@comcast.com	Did not provide record information.
Level 3 Communications and Lumen (L3, Lumen)	Telephone, Fiber	Diane Murphy diane.murphy@lumen.com	E Flatiron Crossing Map.pdf Design Cut.png Design Legend.png 6.jpg Legend.png Map.png
Xcel Energy (XCEL)	Electric, Gas	303.571.3263 geospatialrequests@xcelenergy.com	A117301585-00A-a117301585_elec-1624450283661.pdf A117301585-00A-a117301585_gas-1524450283772.pdf Updated A117301585-00A-a117301585_gas-1624450283772.pdf Xcel_Energy_Smallworld_Gas_Distribution_Sheet_Nov 2016.pdf Xcel_Energy_Smallworld_Gas_Transmission_Sheet_Nov 2016.pdf A117301585-00A-Smallworld+Electric+Distribution+Symbol+Sheet_Nov+2016-1624450283724.pdf A117301585-00A-Smallworld+Gas+Distribution+Symbol-Sheet_Nov+2016-1624450283867.pdf A117301585-00A-Smallworld+Gas+Transmission+Symbol+Sheet_Nov+2016-1624450283818.pdf
Zayo	Fiber	Beau Dillon 719.433.4054 beau.dillon@zayo.com	Screenshot_1.png Annotation 2022-01-12 154359.png

All seals for this set of drawings are applied to the cover page(s)	Print Date: \$DATE\$	Sheet Revisions			ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code	
	File Name: \$FILES\$	Date:	Comments	Init.		EXISTING UTILITY PLANS			STU M145-013
	Horiz. Scale:      Vert. Scale: As Noted	9-13-22	Phase 1 Submittal	CWG		GENERAL NOTES			
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UTILITY MAPPING SERVICES 7100 N. Broadway, Unit 1D Denver, CO 80221 (720)230-0780	3-14-24	Phase 2 Test Holes	CWG	Void:	Sheet Subset: UTIL      Subset Sheets: 02 of 16		Sheet Number <b>108</b>		

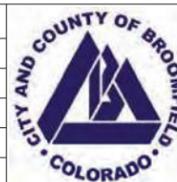
# KEY MAP



All seals for this set of drawings are applied to the cover page(s)

Print Date: \$DATE\$
File Name: \$FILES\$
Horiz. Scale:                      Vert. Scale: As Noted
Unit Information
 UTILITY MAPPING SERVICES 7100 N. Broadway, Unit 1D Denver, CO 80221 (720)230-0780

Sheet Revisions		
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1-5-23	Phase 1 Update	CWG
3-14-24	Phase 2 Test Holes	CWG



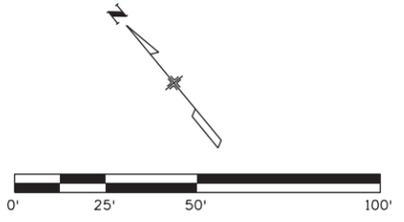
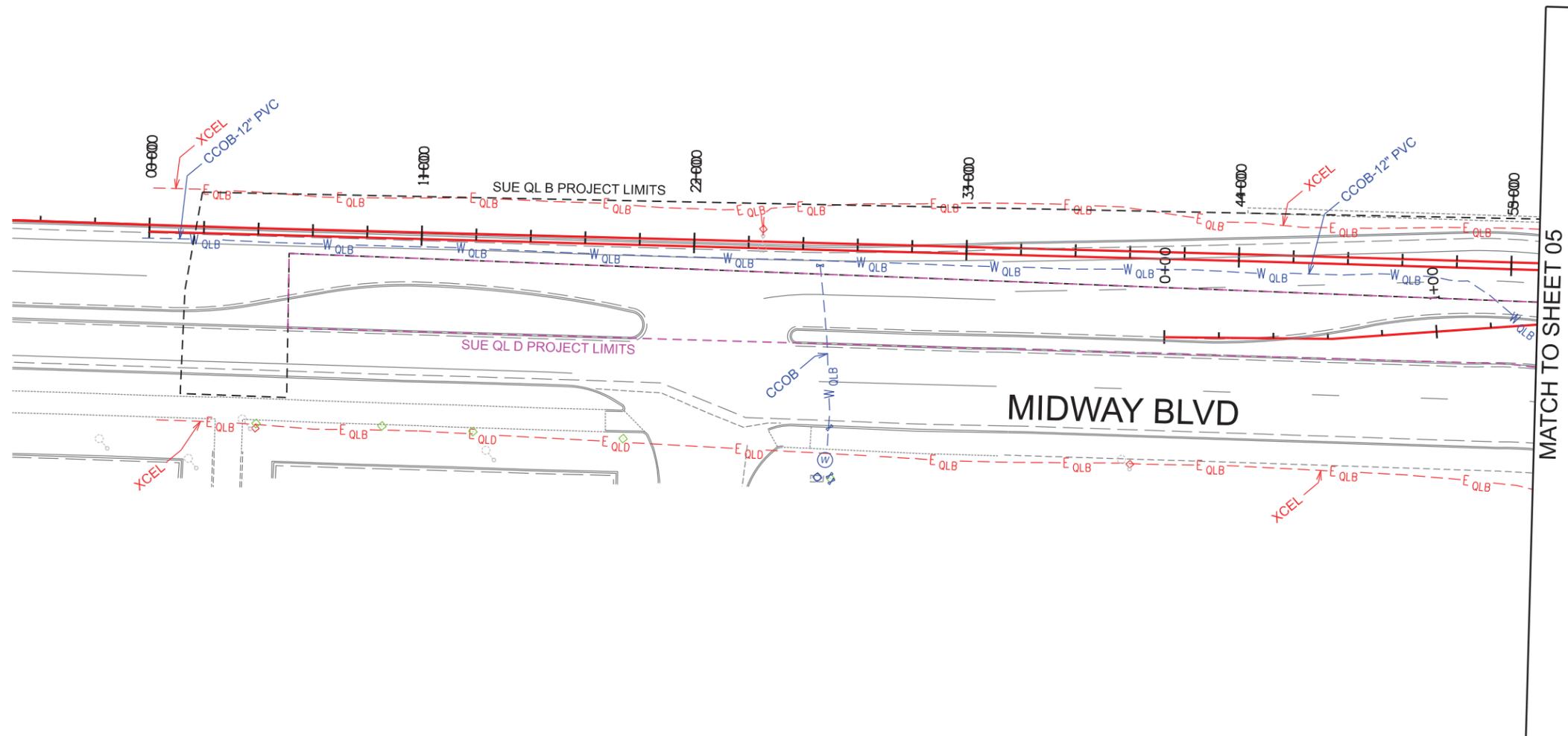
ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

No Revisions:
Revised:
Void:

INDUSTRIAL LANE BIKEWAY PHASE 2 EXISTING UTILITY PLANS KEY MAP		Designer: ABRH	Checker: CRM
		Detailer: CWG	
Sheet Subset: UTIL		Subset Sheets: 03 of 16	

Project No./Code	STU M145-013
Sheet Number	<b>109</b>



All seals for this set of drawings are applied to the cover page(s)

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Unit Information
UTILITY MAPPING SERVICES 7100 N. Broadway, Unit 1D Denver, CO 80221 (720)230-0780

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3-14-24	Phase 2 Test Holes	CWG



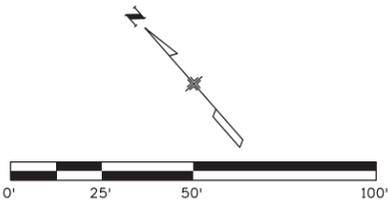
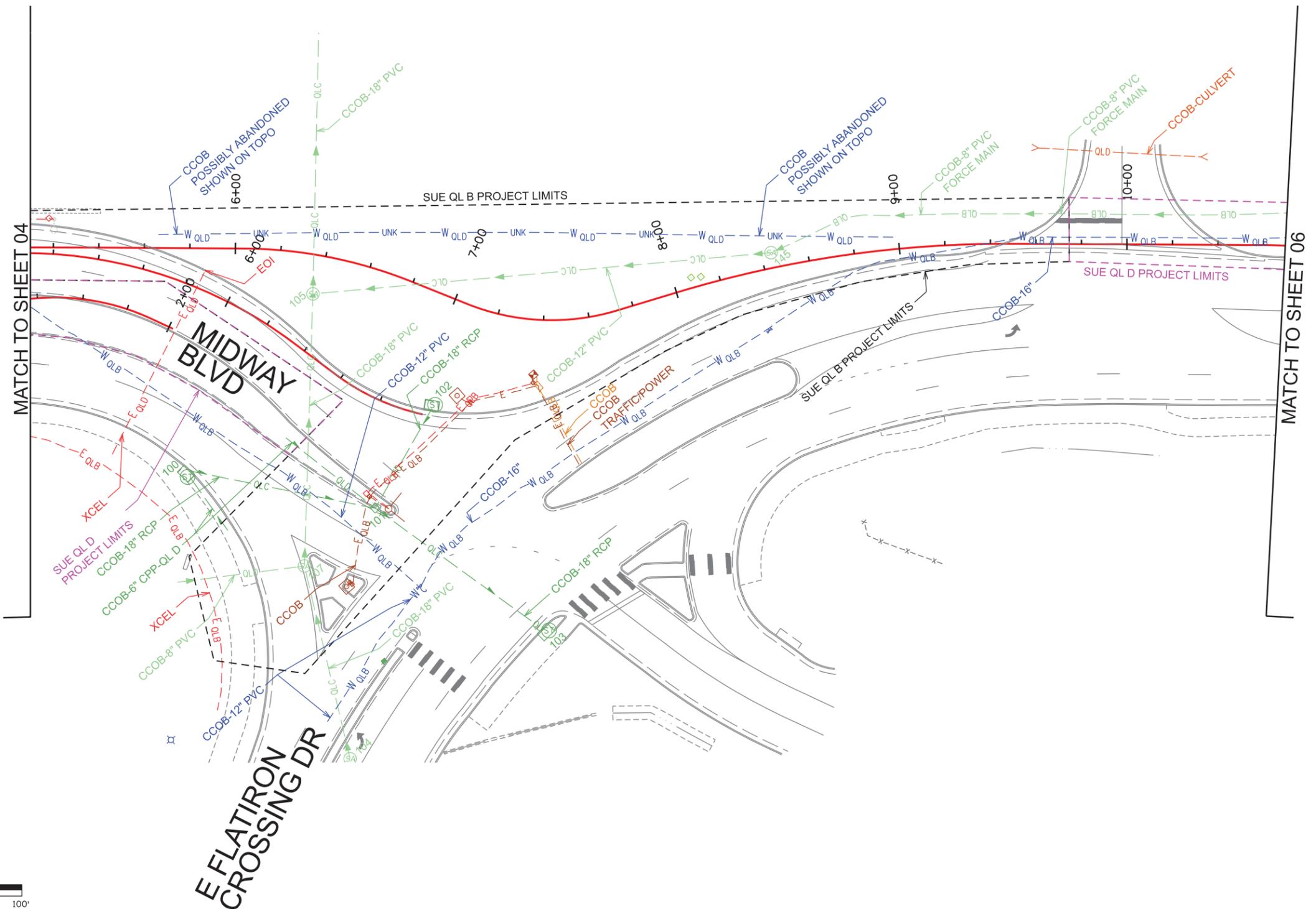
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No Revisions:
Revised:
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Project No./Code	STU M145-013
	23593
Sheet Number	<b>110</b>



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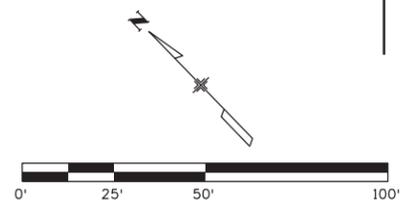
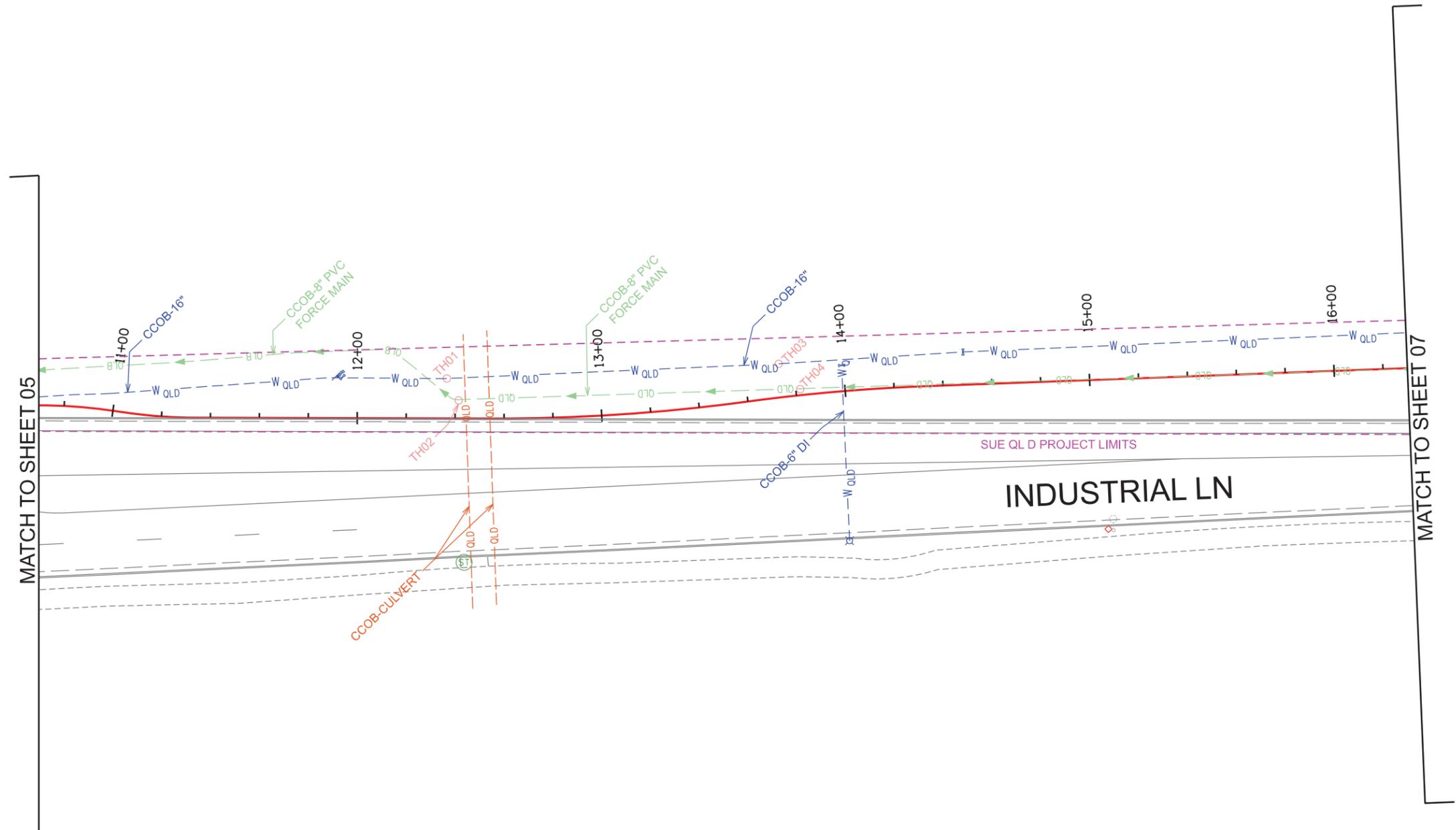
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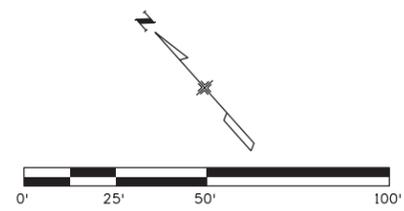
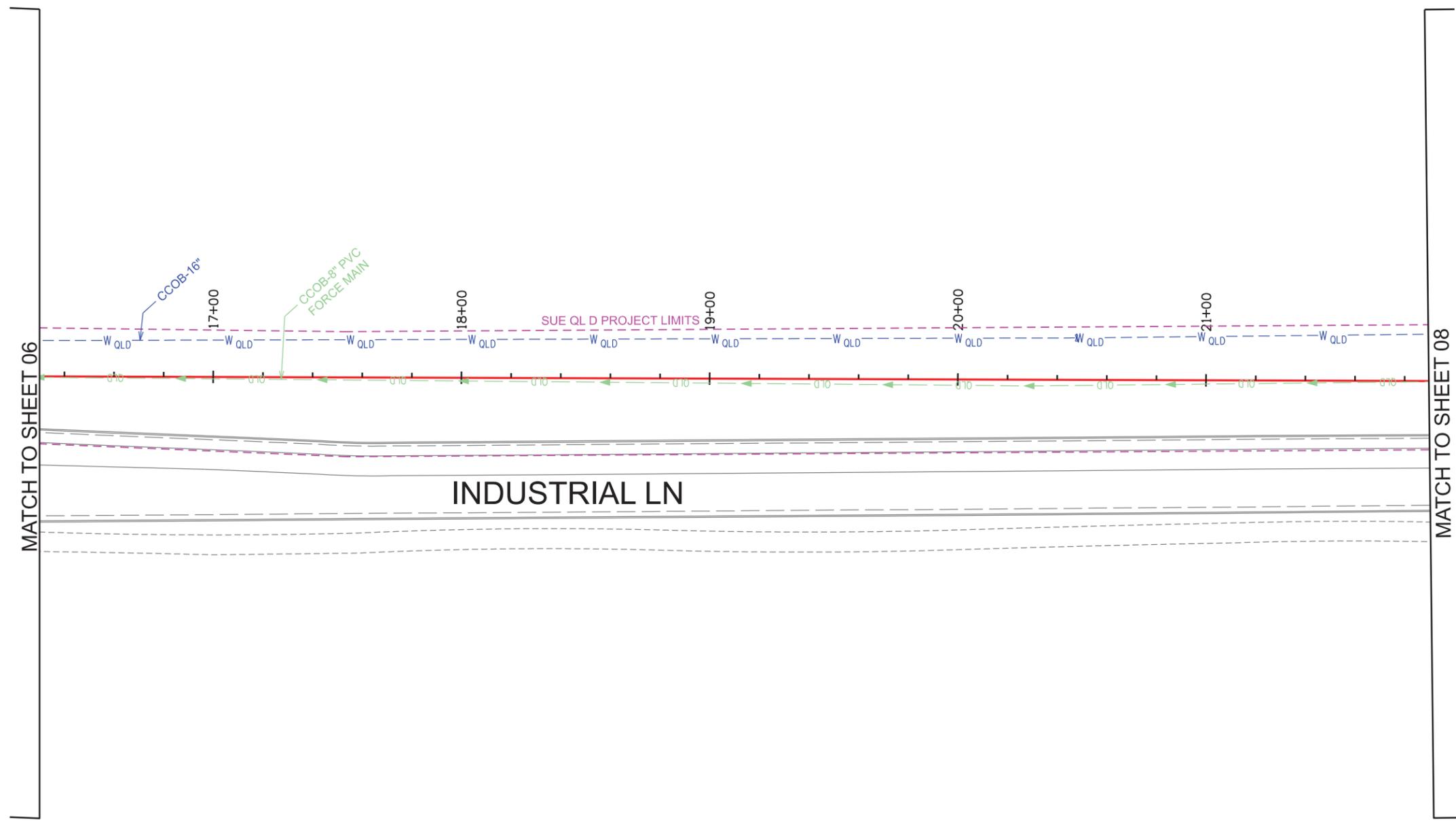
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Project No./Code
STU M145-013
23593
Sheet Number <b>111</b>

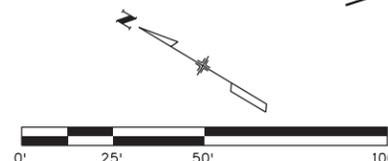
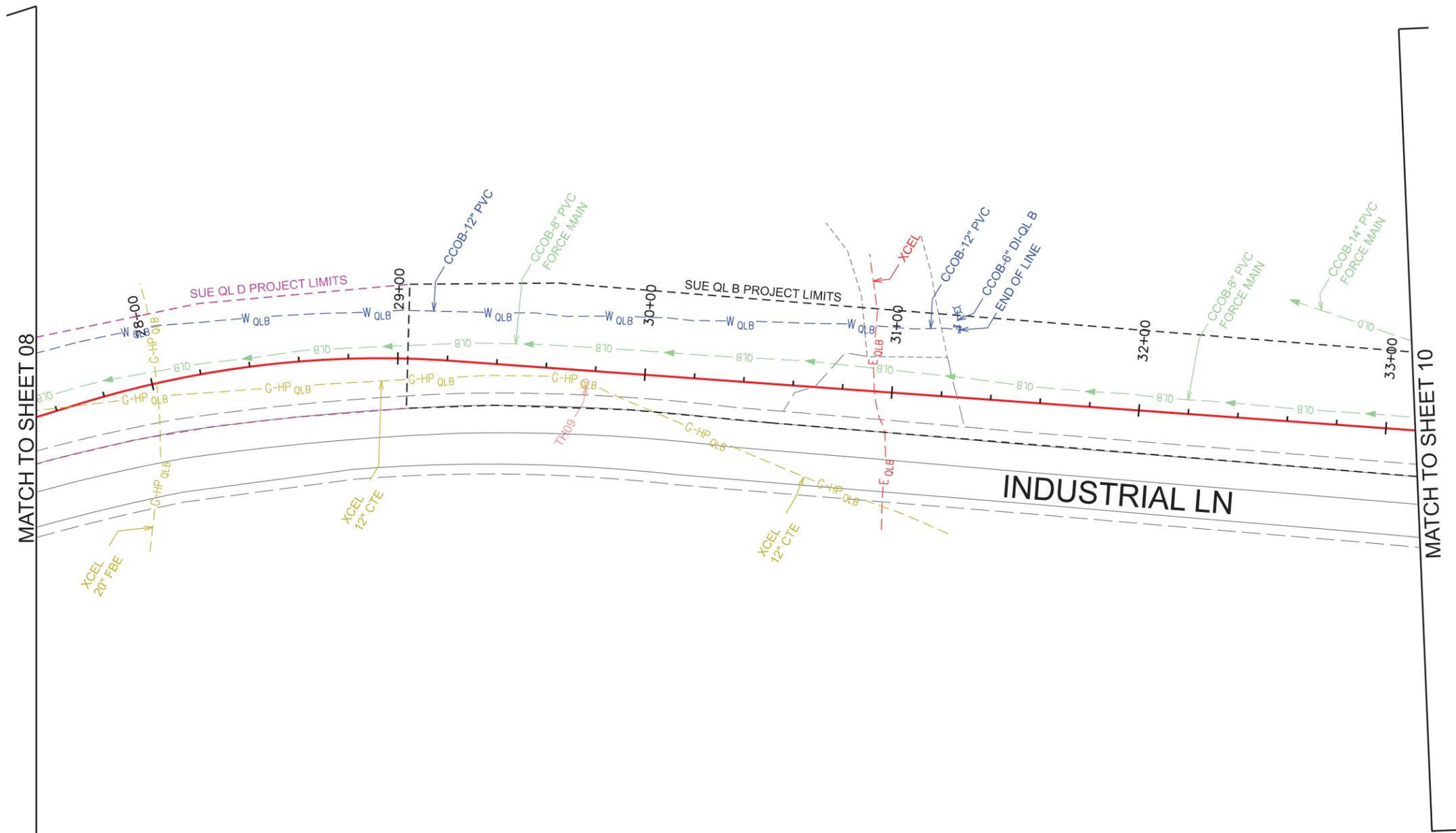


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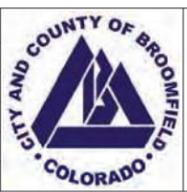




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UTILITY MAPPING SERVICES 7100 N. Broadway, Unit 1D Denver, CO 80221 (720)230-0780

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1-5-23	Phase 1 Update	CWG
3-14-24	Phase 2 Test Holes	CWG



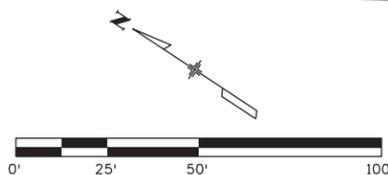
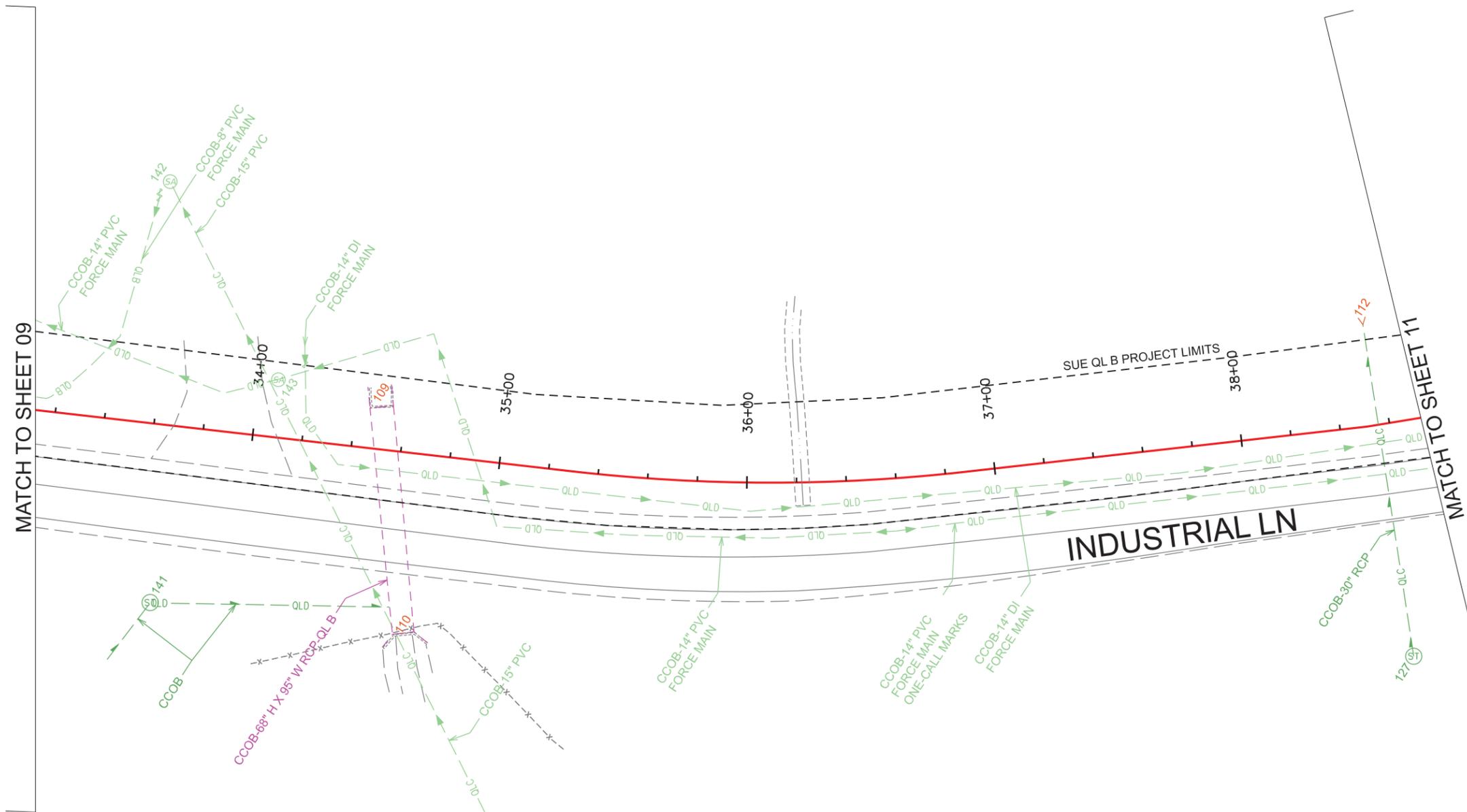
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No Revisions:
Revised:
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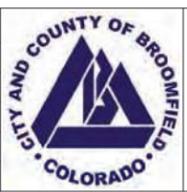
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	23593
Sheet Number	<b>115</b>



All seals for this set of drawings are applied to the cover page(s)

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 Unit Information  
 UTILITY MAPPING SERVICES  
 7100 N. Broadway, Unit 1D  
 Denver, CO 80221  
 (720)230-0780

Sheet Revisions		
Date:	Comments	Init.
9-13-22	Phase 1 Submittal	CWG
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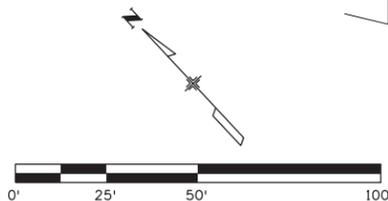
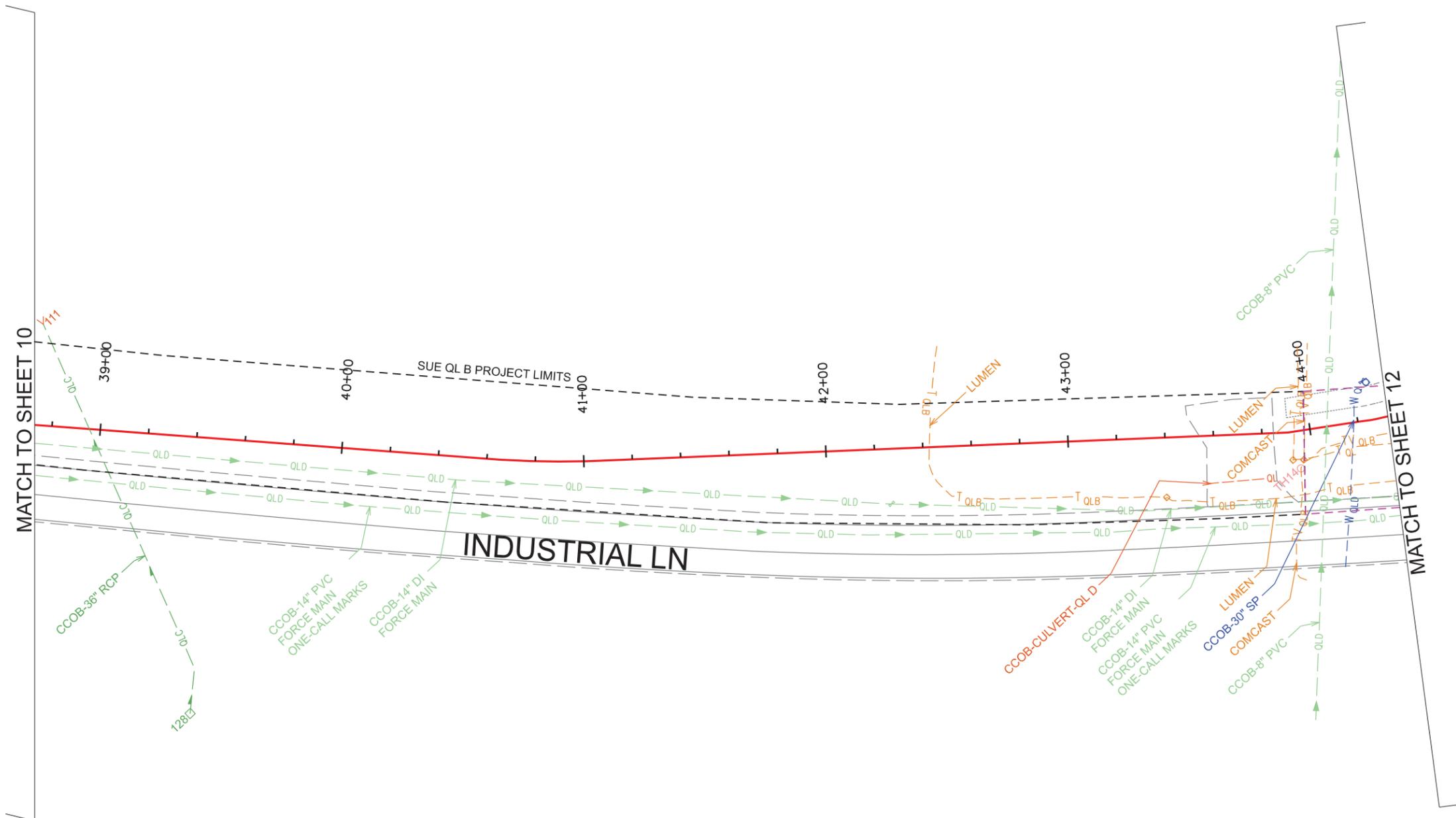
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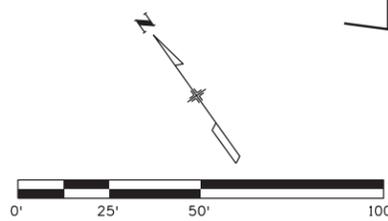
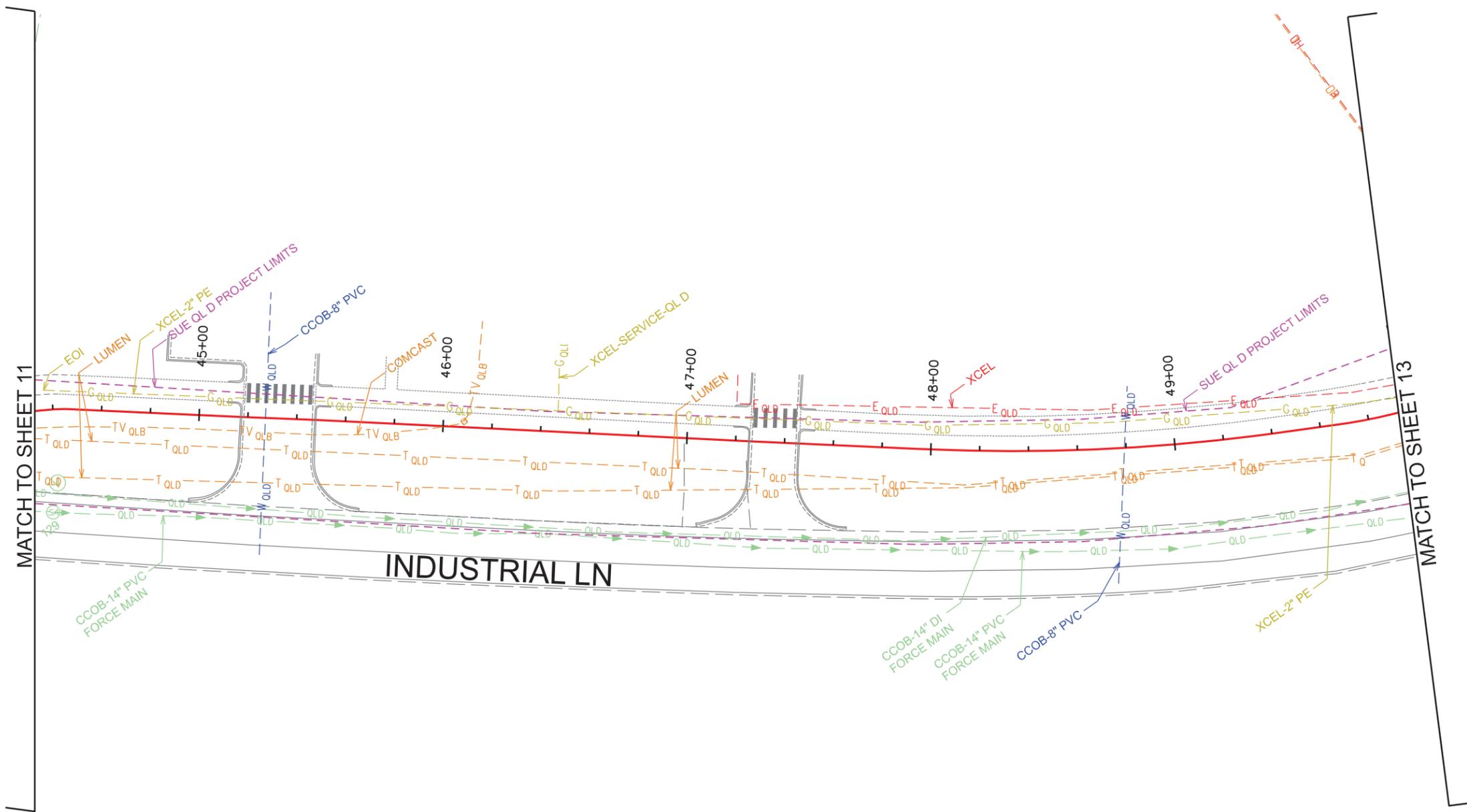
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 EXISTING UTILITY PLANS  
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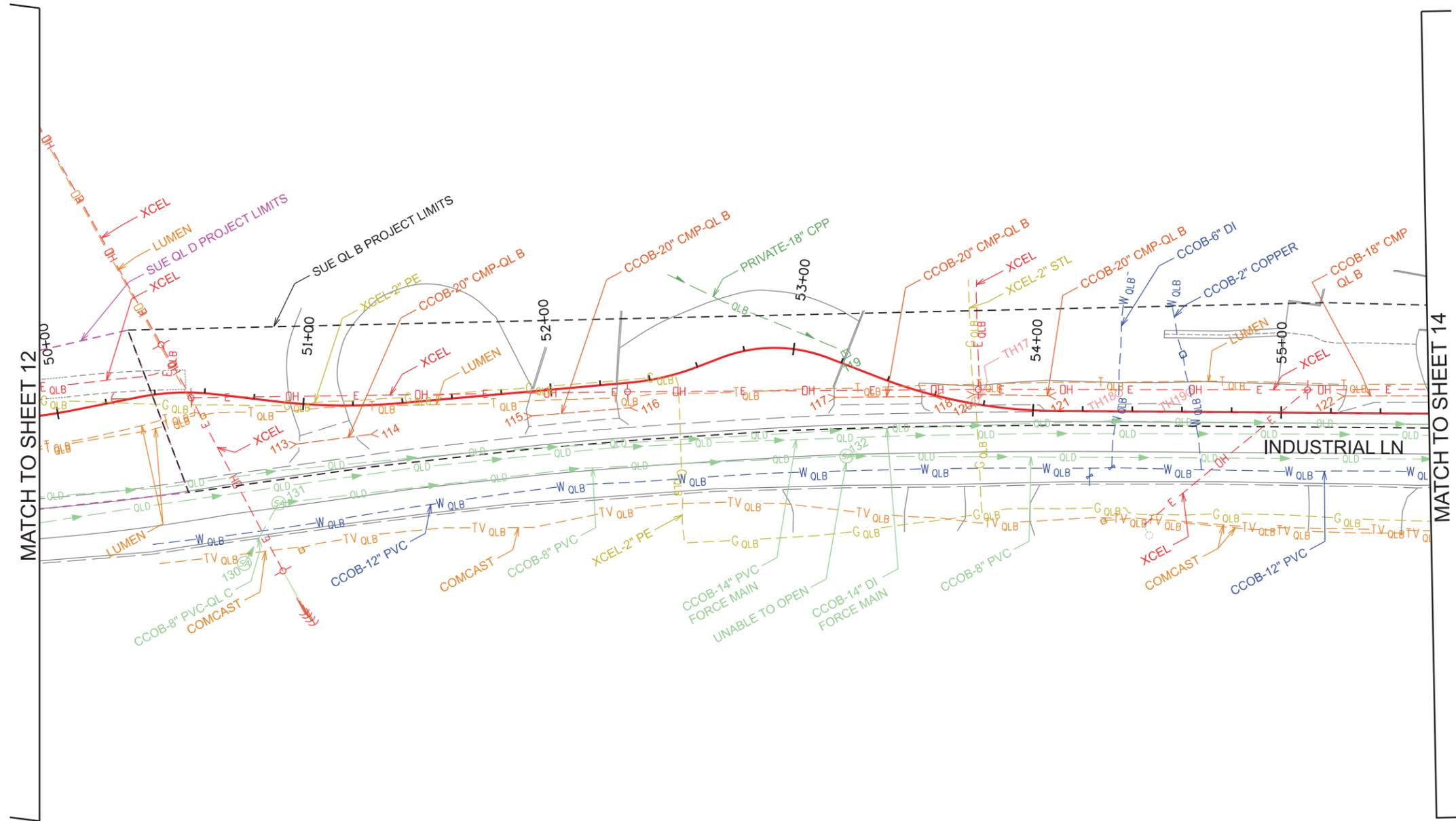
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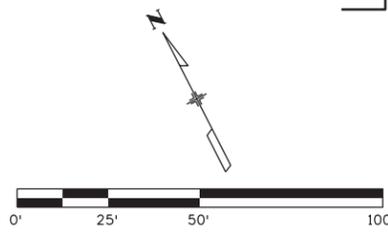
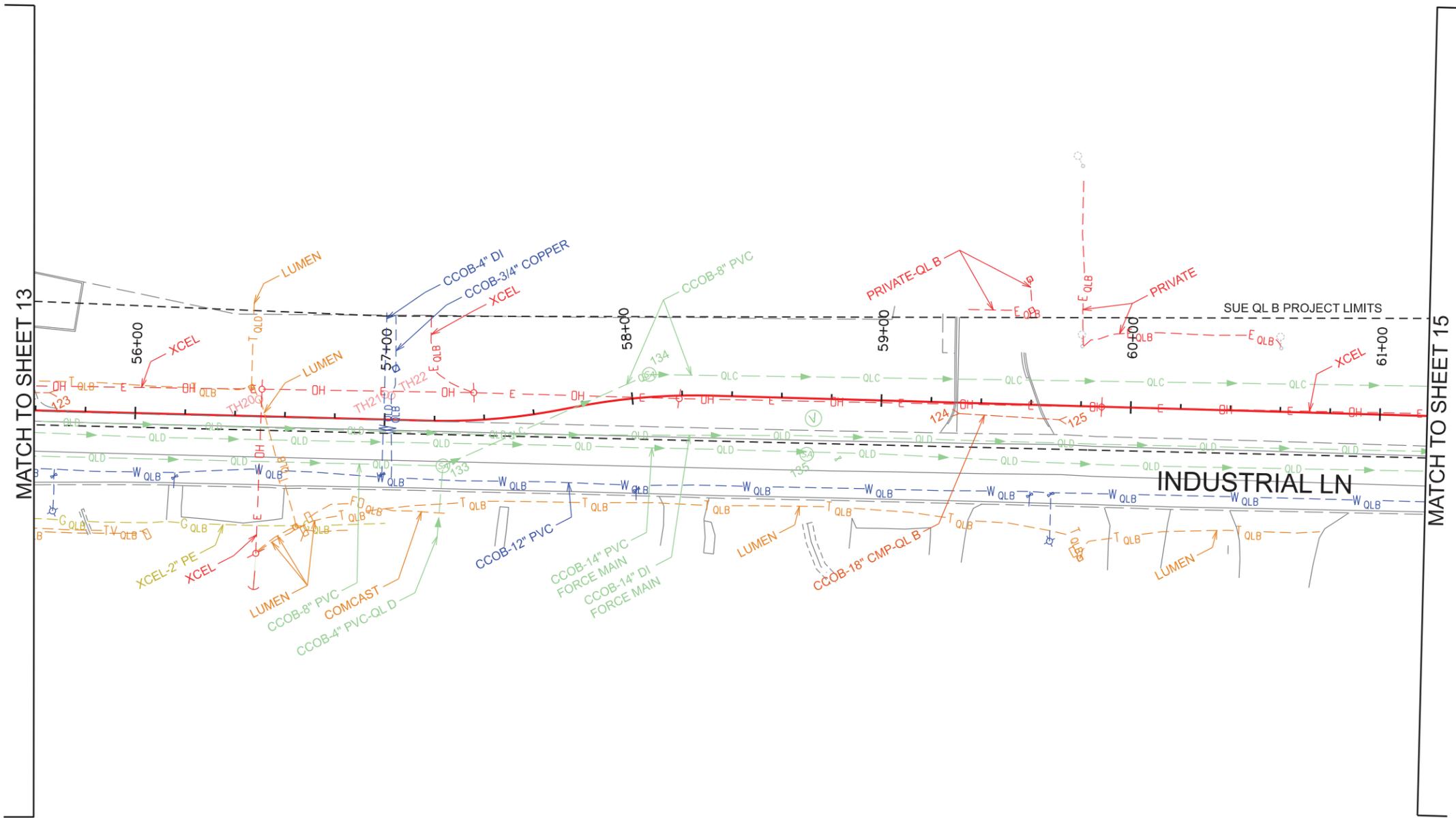
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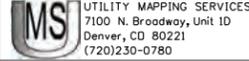
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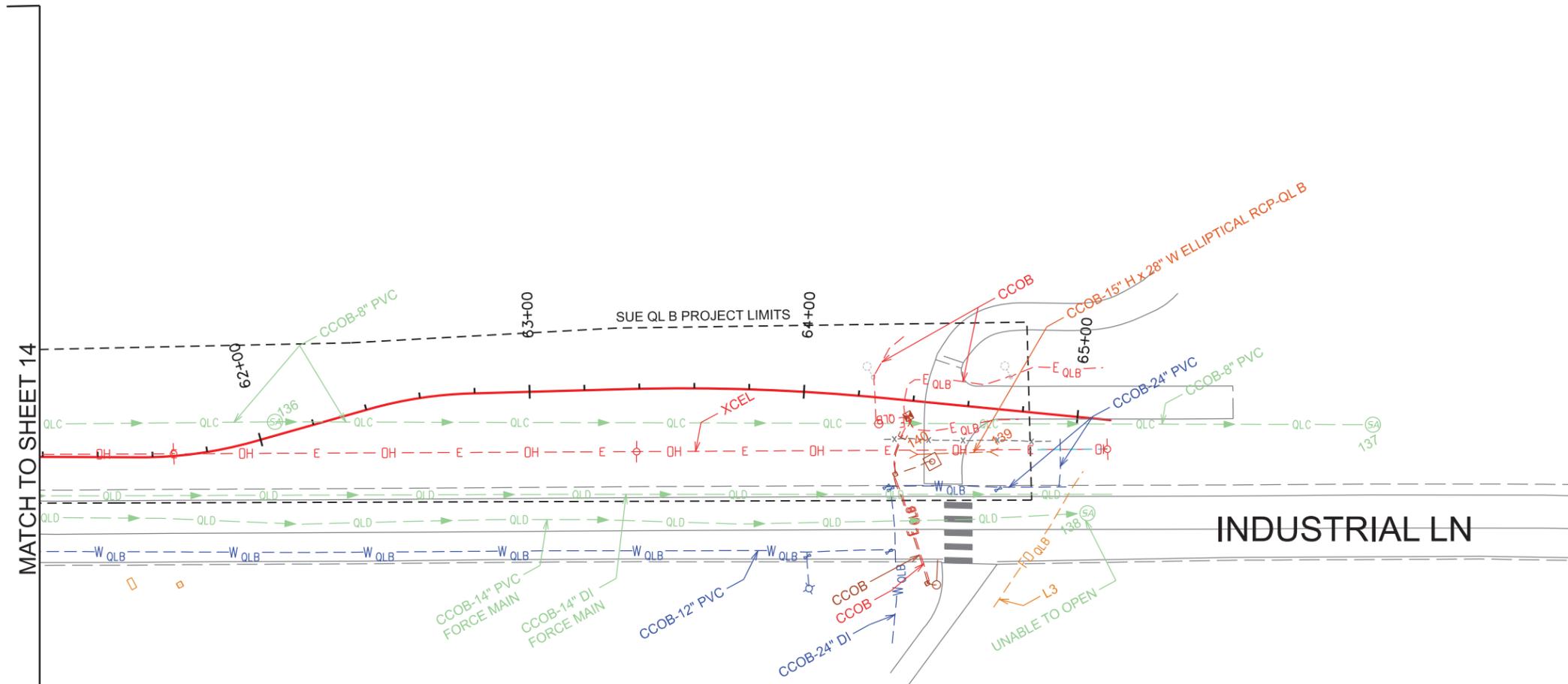
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Detailer: CWG	
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Project No./Code	STU M145-013
	23593
Sheet Number	<b>119</b>



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MATCH TO SHEET 14

SUE QL B PROJECT LIMITS

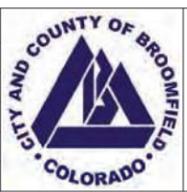
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UTILITY MAPPING SERVICES 7100 N. Broadway, Unit 1D Denver, CO 80221 (720)230-0780

Sheet Revisions		
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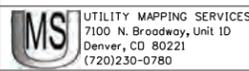
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Project No./Code	STU M145-013
	23593
Sheet Number	<b>121</b>

# TEST HOLE INFORMATION

Test Hole Number	Sheet Number	Utility Type / Description	Utility Owner	Size	Material	Utility Direction	Northing	Easting	Surface Elevation	Depth to Top (feet)	Depth to Bottom (Feet)	Utility Top Elevation	Utility Bottom Elevation	Comments / Remarks
TH01	6	Water	Broomfield	16"	PVC	NW-SE	1218649.462	3107802.094	5357.217	9.44	-	5347.777	-	Test hole location moved to the northwest to avoid the two large culverts.
TH02	6	Sanitary Sewer Force Main	Broomfield	8"	PVC	NW-SE	1218639.682	3107799.342	5357.187	2.85	-	5354.337	-	Test hole location moved to the northwest to avoid the two large culverts.
TH03	6	Water	Broomfield	16"	PVC	NW-SE	1218559.267	3107903.635	5357.015	5.55	-	5351.465	-	
TH04	6	Sanitary Sewer Force Main	Broomfield	8"	PVC	NW-SE	1218545.746	3107902.759	5357.639	3.72	-	5353.919	-	
TH09	9	HP Gas	Xcel Energy	12"	CTE	N-S	1217445.983	3109046.296	5383.123	5.29	-	5377.833	-	
TH14	11	Cable TV	Comcast	3"	HDPE Conduit	NE-SW	1216311.072	3109876.073	5367.007	2.11	-	5364.897	-	Exposed a 3-inch conduit.
TH17	13	Gas	Xcel Energy	2"	Steel	NE-SW	1215804.164	3110706.185	5384.526	2.91	-	5381.616	-	
TH18	13	Water	Broomfield	6"	Ductile Iron	NE-SW	1215779.489	3110758.478	5384.52	4.25	-	5380.27	-	
TH19	13	Water	Broomfield	2"	Copper	NE-SW	1215766.373	3110783.898	5386.005	3.38	-	5382.625	-	
TH20	14	Telephone	Lumen	1"	Direct Buried Cable	N-S	1215676.029	3110946.842	5391.634	1.48	-	5390.154	-	Exposed a 1-inch direct buried cable.
TH21	14	Water	Broomfield	4"	Ductile Iron	NE-SW	1215654.718	3110992.781	5393.497	7.05	-	5386.447	-	The crew was unable to take photos of the pipe due to the amount of water infiltrating the hole.
TH22	14	Water	Broomfield	3/4"	Copper	NE-SW	1215653.219	3110994.755	5393.368	4.65	-	5388.718	-	

All seals for this set of drawings are applied to the cover page(s)	Print Date: \$DATE\$	Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.	INDUSTRIAL LANE BIKEWAY PHASE 2 EXISTING UTILITY PLANS TEST HOLE INFORMATION		Project No./Code		
	File Name: \$FILES\$		Date:	Comments			Init.	No Revisions:			STU M145-013
	Horiz. Scale:      Vert. Scale: As Noted	<input type="checkbox"/>	9-13-22	Phase 1 Submittal			CWG	Revised:	Designer: ABRH	Checker: CRM	23593
	Unit Information	<input type="checkbox"/>	1-5-23	Phase 1 Update			CWG	Void:	Detailer: CWG		Sheet Number <b>122</b>
	<input type="checkbox"/>	3-14-24	Phase 2 Test Holes	CWG		Sheet Subset: UTIL	Subset Sheets: 16 of 16				
	<input type="checkbox"/>										



CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

**UTILITY MATRIX**

NOTE: CITY AND COUNTY OF BROOMFIELD (CCOB) WORK WILL BE COMPLETED BY THE CONTRACTOR.

Utility Owner	Util ID #	Conflict Location				Utility Data						Conflict Data				Conflict Resolution			
		Utility Type	Drawing or Sheet No.	Station	Dist. Lt. / Rt.	Test Hole No.	Size and/or Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Conflict Description	Recommended Action or Resolution	Est. Resolution Date	Current Status
												Top	Bottom	Top	Bottom				
CCOB	S-001	MANHOLE	UT02	108+44.43	6.62' LT										MANHOLE IN PROPOSED TRAIL	ADJUST MANHOLE		CONTRACTOR WORK	
CCOB	S-002	MANHOLE	UT05	127+19.30	8.45 LT										MANHOLE IN PROPOSED TRAIL	ADJUST MANHOLE		CONTRACTOR WORK	
CCOB	S-003	MANHOLE	UT07	134+07.84	23.29 LT										MANHOLE IN PROXIMITY TO DRIVEWAY IMPROVEMENTS	PROTECT IN PLACE		CONTRACTOR WORK	
CCOB	S-004	MANHOLE	UT11	158+01.52	8.94 LT										MANHOLE IN PROPOSED TRAIL	ADJUST MANHOLE		CONTRACTOR WORK	
CCOB	S-005	MANHOLE	UT12	162+00.89	4.71 LT										MANHOLE IN TRAIL SIDE SLOPE GRADING	ADJUST MANHOLE		CONTRACTOR WORK	
CCOB	S-006	SANITARY	UT05	127+19.26	12.17 LT										PROPOSED TRAIL	RESET SEWER VENT		CONTRACTOR WORK	

**UTILITY MATRIX**

Utility Owner	Util ID #	Conflict Location				Utility Data						Conflict Data				Conflict Resolution			
		Utility Type	Drawing or Sheet No.	Station	Dist. Lt. / Rt.	Test Hole No.	Size and/or Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Conflict Description	Recommended Action or Resolution	Est. Resolution Date	Current Status
												Top	Bottom	Top	Bottom				
XCEL	G-001	GAS	UT05-UT06	127+42-129+99	LT,RT										GAS UNDER PROPOSED TRAIL	PROTECT IN PLACE			
XCEL	G-002	GAS	UT06	127+99-128+03	LT,RT										GAS UNDER PROPOSED TRAIL	PROTECT IN PLACE			
XCEL	G-003	GAS	UT09	149+65-152+52	LT,RT										GAS UNDER PROPOSED TRAIL	PROTECT IN PLACE			
XCEL	G-004	GAS	UT10	153+68-153+71	LT,RT										GAS UNDER PROPOSED TRAIL	PROTECT IN PLACE			

**UTILITY MATRIX**

Utility Owner	Util ID #	Conflict Location				Utility Data						Conflict Data				Conflict Resolution			
		Utility Type	Drawing or Sheet No.	Station	Dist. Lt. / Rt.	Test Hole No.	Size and/or Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Conflict Description	Recommended Action or Resolution	Est. Resolution Date	Current Status
												Top	Bottom	Top	Bottom				
LUMEN	C-001	TELEPHONE RISER	UT08	143+39.96	24.79 RT.										CONFLICT WITH DITCH, RIPRAP, AND END SECTION	TO BE REMOVED (BY LUMEN)		RECEIVED LUMEN DESIGN PLANS (2023-11-29)	
LUMEN	C-002	TELEPHONE RISER	UT08	143+91.37	11.58 RT.										NO CONFLICT	TO BE REMOVED (BY LUMEN)		RECEIVED LUMEN DESIGN PLANS (2023-11-29)	
COMCAST	C-003	CABLE RISER	UT08	143+95.80	12.13 RT.										NO CONFLICT	PROTECT IN PLACE		12/12/2023 FIELD MEETING PROTECT IN PLACE	
COMCAST	C-004	CABLE RISER	UT09	146+08.69	2.21 LT.										CONFLICT WITH PROPOSED TRAIL	RELOCATE 10' SOUTH (BY COMCAST)		TO BE RELOCATED BY COMCAST, COMPLETE BY APRIL 2024	
LUMEN	C-005	TELEPHONE RISER	UT11	156+40.44	11.34 LT										CONFLICT WITH PROPOSED TRAIL	TO BE RELOCATE (BY LUMEN)		RECEIVED LUMEN DESIGN PLANS (2023-11-29)	
LUMEN	C-006	TELEPHONE LINE	UT08-UT10	142+42 TO 150+60	9.31' RT. TO 9.31' RT.										NO CONFLICT, LUMEN ABANDONMENT	TO BE ABANDONED (BY LUMEN)		ADJUSTED ABANDONMENT LIMITS PER 2024-04-08 MEETING	
LUMEN	C-007	TELEPHONE PEDESTAL	UT10	150+60.25	9.31' RT.										CONFLICT WITH PROPOSED TRAIL AND OH XCEL	TO BE REMOVED (BY LUMEN)		PER 2024-04-08 MEETING	
LUMEN	C-008	TELEPHONE LINE	UT10-UT11	150+60 TO 156+46	9.31' RT. TO 11.30' LT.										CONFLICT WITH PROPOSED TRAIL AND DRAINAGE	TO BE RELOCATED (BY LUMEN)		ANTICIPATE RELOCATION TO XCEL OH SYSTEM RELOCATION	

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	File Name: 30322_Utility Plan Sheets & Conflict Matrix.dgn	Date:	Comments	Init.		No Revisions:	UTILITY CONFLICT MATRIX		STU M145-013
	Unit Information					Revised:	Designer: D. DYER	Checker:	23593
	 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					Void:	Detailer: D. DYER		Sheet Number 123

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UTILITY MATRIX																			
Utility Owner	Util ID #	Conflict Location				Utility Data							Conflict Data				Conflict Resolution		
		Utility Type	Drawing or Sheet No.	Station	Dist. Lt. / Rt.	Test Hole No.	Size and/or Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Conflict Description	Recommended Action or Resolution	Est. Resolution Date	Current Status
												Top	Bottom	Top	Bottom				
XCEL	E-001	UG-ELECTRIC LIGHT & PULL BOX	UT01	102+25.44	4.52 LT											LIGHT POLE CONFLICT WITH SIDEWALK	RESET LUMINAIRE AND PULL BOX		BY XCEL ENERGY
XCEL	E-002	UG-ELECTRIC LIGHT & PULL BOX	UT02	105+18.28	12.83 LT											LIGHT POLE CONFLICT WITH SIDEWALK	RESET LUMINAIRE AND PULL BOX		BY XCEL ENERGY
CCOB	E-003	UG-TRAFFIC PULL BOX	UT02	106+95.35	93.61 RT											PULL BOX CONCRETE FOR PEDESTRIAN REFUGE	ADJUST TRAFFIC PULL BOX		CONTRACTOR WORK
CCOB	E-004	UG-TRAFFIC PULL BOX	UT02	106+97.20	94.44 RT											PULL BOX CONCRETE FOR PEDESTRIAN REFUGE	ADJUST PULL BOX		CONTRACTOR WORK
CCOB	E-005	TRAFFIC SIGNAL & PULL BOXES	UT02	107+04.74	133.77 RT											TRAFFIC SIGNAL POLE AND PULL BOXES IN CONFLICT WITH ISLAND IMPROVEMENTS	RELOCATE TRAFFIC SIGNAL POLE (1 EACH) AND PULL BOXES (2 EACH)		CONTRACTOR WORK
XCEL	E-006	UG ELECTRIC	UT06	130+93.48	4.50 RT											PROPOSED STORM DRAIN PIPE AT DRIVEWAY	PROTECT IN PLACE POTHOLE TO CONFIRM ANY CONFLICT		PROTECT IN PLACE
XCEL	E-007	DOWN GUY WIRE	UT10	150+54.73	2.21 RT											DOWN GUY IN CONFLICT WITH TRAIL	ADJUST TRAIL ALIGNMENT AS NECESSARY NOT TO IMPACT GUY WIRE PER DIRECTION OF THE ENGINEER		BY CONTRACTOR
XCEL	E-008	OH ELECTRIC POLE	UT10	152+30.73	6.32 LT											NOT IN CONFLICT	ELECTRIC POLE AND LUMINARIES PROTECT IN PLACE		BY XCEL ENERGY
XCEL	E-009	OH ELECTRIC POLE	UT10	153+72.01	8.30 LT											POLE IN CONFLICT WITH PROPOSED TRAIL	RELOCATE OH LINE (BY XCEL)		BY XCEL ENERGY
XCEL	E-010	OH ELECTRIC POLE	UT10	155+04.69	9.12 LT											POLE IN CONFLICT WITH PROPOSED TRAIL	RELOCATE OH LINE, RESET LUMINAIRE (2 EACH) (BY XCEL)		BY XCEL ENERGY
XCEL	E-011	OH ELECTRIC	UT10	154+86-155+04	LT,RT											OH LINE AND POLES IN CONFLICT WITH TRAIL	RELOCATE OH LINE (BY XCEL)		BY XCEL ENERGY
XCEL	E-012	OH ELECTRIC	UT11	156+45	LT,RT											OH LINE AND POLES IN CONFLICT WITH TRAIL	RELOCATE OH LINE (BY XCEL)		BY XCEL ENERGY
XCEL	E-013	OH ELECTRIC POLE	UT11	156+44.67	10.78 LT											OH LINE AND POLES IN CONFLICT WITH TRAIL	RELOCATE OH LINE, RESET LUMINAIRE (1 EACH) (BY XCEL)		BY XCEL ENERGY
XCEL	E-014	TRANSFORMER	UT11	157+13.98	20.00 LT											TRANSFORMER IN PROXIMITY OF GRADING LIMITS OF PROPOSED TRAIL	PROTECT IN PLACE		BY XCEL ENERGY
XCEL	E-015	OH ELECTRIC POLE	UT11	157+30.51	10.89 LT											OH LINE AND POLES IN CONFLICT WITH TRAIL	RELOCATE OH LINE (BY XCEL)		BY XCEL ENERGY
XCEL	E-016	OH ELECTRIC POLE	UT11	158+12.94	1.30 RT											OH LINE AND POLES IN CONFLICT WITH TRAIL	RELOCATE OH LINE, RESET LUMINAIRE (2 EACH) (BY XCEL)		BY XCEL ENERGY
XCEL	E-017	OH ELECTRIC POLE	UT11	159+82.46	0.21 RT											OH LINE AND POLES IN CONFLICT WITH TRAIL	RELOCATE OH LINE (BY XCEL)		BY XCEL ENERGY
XCEL	E-018	OH ELECTRIC POLE	UT12	161+61.88	0.69 LT											OH LINE AND POLES IN CONFLICT WITH TRAIL	RELOCATE OH LINE, RESET LUMINAIRE (1 EACH) (BY XCEL)		BY XCEL ENERGY
CCOB	E-019	PEDESTRIAN SIGNAL CABINET	UT12	164+31.07	5.80 RT											CONFLICT IN CLOSE PROXIMITY TO TRAIL IMPROVEMENTS	PROTECT IN PLACE		BY XCEL ENERGY
CCOB	E-020	UG ELECTRIC / STREET LIGHT	UT12	164+18.74	7.02 LT											CONFLICT WITH PROPOSED TRAIL	RESET LUMINAIRE AND PULL BOX (1 EACH)		BY XCEL ENERGY

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Print Date: 8/26/2024  
 File Name: 30322\_Utility Plan Sheets & Conflict Matrix.dgn  
 Horiz. Scale: 1"=40' Vert. Scale: As Noted  
 Unit Information  
 Stanley Consultants inc.  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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 CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
 Void:

INDUSTRIAL LANE BIKEWAY PHASE 2  
 UTILITY CONFLICT MATRIX  
 Designer: D. DYER  
 Checker: \_\_\_\_\_  
 Detailer: D. DYER  
 Sheet Subset: UTILITY  
 Subset Sheets: 02 of 04

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **124**

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UTILITY MATRIX																			
Utility Owner	Util ID #	Conflict Location				Utility Data							Conflict Data				Conflict Resolution		
		Utility Type	Drawing or Sheet No.	Station	Dist. Lt. / Rt.	Test Hole No.	Size and/or Material	Northing	Easting	Surface Elevation	Measure Down	Utility Elevation		Conflict Elevation		Conflict Description	Recommended Action or Resolution	Est. Resolution Date	Current Status
												Top	Bottom	Top	Bottom				
CCOB	W-001	IRRIGATION PULL BOX	UT02	108+08.12	4.44 LT											PULL BOX WITHIN TRAIL	RELOCATE PULL BOX		CONTRACTOR WORK
CCOB	W-002	IRRIGATION PULL BOX	UT02	108+12.32	3.60 LT											PULL BOX WITHIN TRAIL	RELOCATE PULL BOX		CONTRACTOR WORK
CCOB	W-003	WATER VALVE	UT03	111+93.83	17.24 LT											WATER VALVE BOX WITHIN LIMITS OF GRADE CHANGE OF PROPOSED TRAIL	CLEAN & ADJUST VALVE BOX TO GRADE (2 EACH)		CONTRACTOR WORK
CCOB	W-004	WATER LINE	UT03	112+49.82	19.83 LT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
CCOB	W-005	WATER LINE	UT03	113+75.02	15.65 LT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
CCOB	W-006	WATER VALVE	UT03	113+99.58	10.44 LT											WATER VALVE BOX WITHIN LIMITS OF PROPOSED TRAIL	CLEAN VALVE BOX, ADJUST TO GRADE		CONTRACTOR WORK
CCOB	W-007	WATER VALVE	UT03	114+48.90	13.30 LT											WATER VALVE BOX WITHIN LIMITS OF PROPOSED TRAIL	CLEAN VALVE BOX, ADJUST TO GRADE		CONTRACTOR WORK
CCOB	W-008	WATER VALVE	UT04	120+47.89	16.83 LT											WATER VALVE BOX WITHIN LIMITS OF GRADE CHANGE OF PROPOSED TRAIL	CLEAN VALVE BOX, ADJUST TO GRADE		CONTRACTOR WORK
CCOB	W-009	FIRE HYDRANT / VALVE ASSEMBLY	UT05	125+12.03	30.26 LT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
CCOB	W-010	WATER VALVE	UT05	125+30.39	23.57 LT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
	W-011																		REMOVED
CCOB	W-012	WATER VALVE	UT05	127+25.81	25.82 LT											WATER VALVE BOX WITHIN LIMITS OF GRADE CHANGE OF PROPOSED TRAIL	CLEAN VALVE BOX, ADJUST TO GRADE		CONTRACTOR WORK
CCOB	W-013	WATER VALVE	UT05	127+20.05	26.96 LT											WATER VALVE BOX WITHIN LIMITS OF GRADE CHANGE	CLEAN VALVE BOX, ADJUST TO GRADE		CONTRACTOR WORK
CCOB	W-014	WATER VALVE	UT06	131+24.40	28.50 LT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
CCOB	W-015	WATER VALVE / METER BOX	UT08	144+23.93	16.37 LT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
CCOB	W-016	FORCE MAIN METER	UT08	142+26.39	22.69 RT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
CCOB	W-017	AIRVENT	UT09	144+40.45	30.18 RT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
COOB	W-018	WATER METER	UT10	154+60.41	22.96' LT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
CCOB	W-019	WATER METER	UT11	157+04.14	20.46 LT											NO CONFLICT	PROTECT IN PLACE		CONTRACTOR WORK
CCOB	W-020	AIRVENT	UT11	158+73.06	7.97 RT											AIRVENT WITHIN LIMITS OF PROPOSED TRAIL	RESET AIRVENT		CONTRACTOR WORK
CCOB / PRIVATE	W-021	IRRIGATION CONTROL BOX (2EA)	UT11	158+81.89	11.04 LT											IRRIGATION CONTROL BOX IN CONFLICT WITH PROPOSED TRAIL	ADJUST TO GRADE		CONTRACTOR WORK
CCOB / PRIVATE	W-022	IRRIGATION CONTROL BOX	UT11	159+73.71	10.52 LT											IRRIGATION CONTROL BOX IN CONFLICT WITH PROPOSED TRAIL	ADJUST TO GRADE		CONTRACTOR WORK
CCOB / PRIVATE	W-023	IRRIGATION CONTROL BOX	UT11	160+14.83	8.83 LT											IRRIGATION CONTROL BOX IN CONFLICT WITH PROPOSED TRAIL	ADJUST TO GRADE		CONTRACTOR WORK
CCOB / PRIVATE	W-024	IRRIGATION CONTROL BOX	UT11	160+47.93	10.21 LT											IRRIGATION CONTROL BOX IN CONFLICT WITH PROPOSED TRAIL	ADJUST TO GRADE		CONTRACTOR WORK
CCOB / PRIVATE	W-025	IRRIGATION CONTROL BOX (2EA)	UT11	161+02.21	10.40 LT											IRRIGATION CONTROL BOX IN CONFLICT WITH PROPOSED TRAIL	ADJUST TO GRADE		CONTRACTOR WORK

NOTE:  
CITY AND COUNTY OF BROOMFIELD (CCOB) WORK WILL BE COMPLETED BY THE CONTRACTOR.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/26/2024 File Name: 30322_Utility Plan Sheets & Conflict Matrix.dgn Horiz. Scale: 1"=40'    Vert. Scale: As Noted Unit Information	Sheet Revisions <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments	Init.														ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  _____ DATE _____ CITY ENGINEER (OR DESIGNEE)	As Constructed No Revisions: Revised: Void:	<b>INDUSTRIAL LANE BIKEWAY PHASE 2</b> <b>UTILITY CONFLICT MATRIX</b>	Project No./Code STU M145-013 23593 Sheet Number <b>125</b>
	Date:	Comments	Init.																			
Designer: D. DYER    Checker: _____ Detailer: D. DYER    _____ Sheet Subset: UTILITY    Subset Sheets: 03 of 04																						

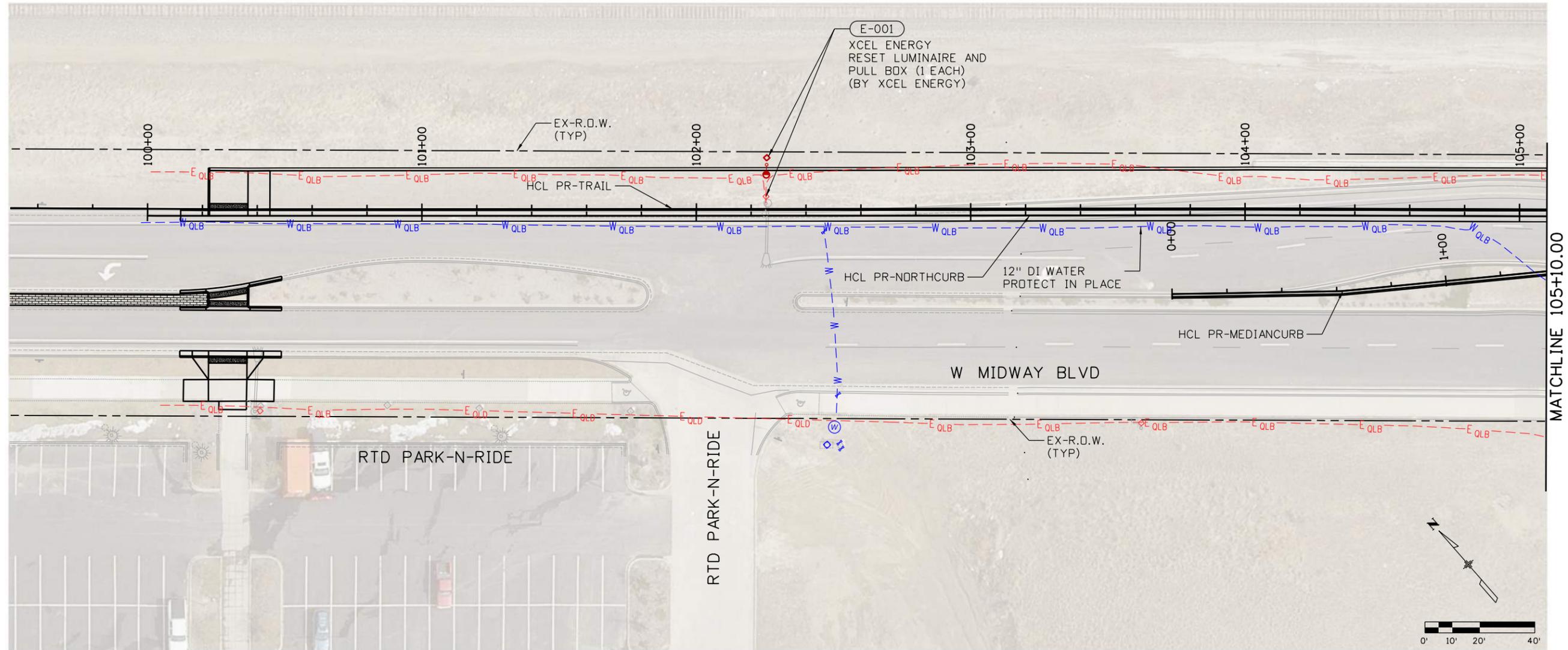
10:35 4:00:58 PM p:\V\SC\PROJECTS\2.stanleygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph. 2\11-CADD\Worksheets\30322.01.DGNs\Utilities\Sheets\Utility Plans and Conflict Matrix

POTHOLE LOG - INDUSTRIAL LANE - BIKEWAY PHASE 2															
POTHOLE NUMBER	SHEET NUMBER	UTILITY OWNERSHIP	UTILITY USE	STATION	OFFSET	MATERIAL TYPE	DIAMETER (INCHES)	DEPTH TO TOP (FEET)	DEPTH TO BOTTOM (FEET)	EXISTING GROUND ELEVATION (FEET)	TOP OF UTILITY ELEVATION (FEET)	PROPOSED GROUND ELEVATION (FEET)	COORDINATE NORTHING	COORDINATE EASTING	FIELD COMMENTS
PH-1	3 of 12	BROOMFIELD	WATER	112+36.65	16.17' LT.	PVC	16"	9.44'	10.77'	5357.22	5347.78		1,218,649.462	3,107,802.094	TEST HOLE SHIFTED TO AVOID CULVERTS UTILITY CLEARANCE >2'
PH-2	3 of 12	BROOMFIELD	SANITARY	112+41.59	7.28' LT.	PVC	8"	2.85'	3.52'	5357.19	5354.34		1,218,639.682	3,107,799.342	TEST HOLE SHIFTED TO AVOID CULVERTS UTILITY CLEARANCE >2'
PH-3	3 of 12	BROOMFIELD	WATER	113+74.50	13.62' LT.	PVC	16"	5.55'	6.88'	5357.02	5351.47		1,218,559.267	3,107,903.635	UTILITY CLEARANCE >2'
PH-4	3 of 12	BROOMFIELD	SANITARY	113+81.97	2.38' LT.	PVC	8"	3.72'	4.39'	5357.64	5353.92		1,218,545.746	3,107,902.759	UTILITY CLEARANCE >2'
PH-9	6 of 12	XCEL ENERGY	GAS - HP	129+76.39	4.99' RT.	STEEL	12"	5.29'	6.29'	5383.12	5377.83		1,217,445.983	3,109,046.296	3.08' CLEAR TO GAS
PH-14	8 of 12	COMCAST	CATV	143+94.08	15.47' RT.	HDPE	3"	2.11'	2.36'	5367.01	5364.90		1,216,311.072	3,109,876.073	EXPOSED A 3" CONDUIT 0.50' CLEAR TO CATV
PH-17	10 of 12	XCEL ENERGY	GAS	153+76.63	1.26' RT.	STEEL	2"	2.91'	3.08'	5384.53	5381.62		1,215,804.164	3,110,706.185	1.2' CLEAR TO GAS
PH-18	10 of 12	BROOMFIELD	WATER	154+34.68	7.18' LT.	DI	6"	4.25'	4.75'	5384.52	5380.27		1,215,779.489	3,110,758.478	3.50' CLEAR TO WATER
PH-19	10 of 12	BROOMFIELD	WATER	154+63.28	7.85' LT.	COPPER	2"	3.38'	3.55'	5386.01	5382.63		1,215,766.373	3,110,783.898	1.70' CLEAR TO 2" WATER SERVICE
PH-20	11 of 12	LUMEN	TELEPHONE	156+49.59	6.63' LT.	DIRECT BURY	1"	1.48'	1.56'	5391.63	5390.15		1,215,676.029	3,110,946.842	EXPOSED 1" DIRECT BURIAL CABLE 0.2' IMPACT WITH STORM, LOWER LINE WITH RELOCATION WORK C-005, PEDESTAL RELOCATION BY LUMEN
PH-21	11 of 12	BROOMFIELD	WATER	157+00.12	9.94' LT.	DI	4"	7.05'	7.38'	5393.50	5386.45		1,215,654.718	3,110,992.781	NO PHOTO EVIDENCE, WATER INFILTRATION ISSUE, 5' CLEAR TO WATER
PH-22	11 of 12	BROOMFIELD	WATER	157+02.57	9.57' LT.	COPPER	0.75"	4.65'	4.71'	5393.37	5388.72		1,215,653.219	3,110,994.755	2.75' CLEAR TO WATER

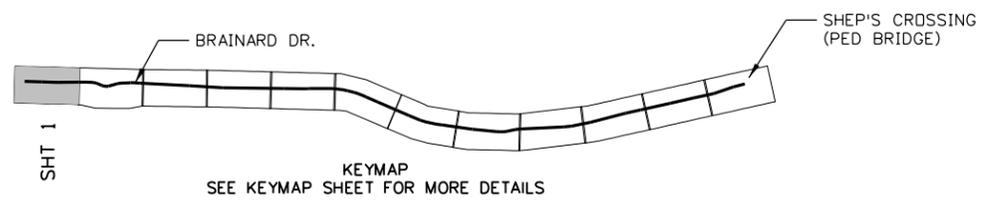
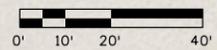
All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/26/2024		Sheet Revisions				ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code	
	File Name: 30322_Utility Plan Sheets & Conflict Matrix.dgn		Date:	Comments	Init.			No Revisions:	UTILITY CONFLICT MATRIX			STU M145-013
	Unit Information		Horiz. Scale: 1"=40'	Vert. Scale: As Noted				Revised:	Designer: D. DYER	Checker:		23593
	8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806							Void:	Detailer: D. DYER			Sheet Number 126
							Sheet Subset: UTILITY	Subset Sheets: 04 of 04				

LOCATION	HCL	202-04005	210-01720	210-04010	210-04050	NOTES
		CLEAN VALVE BOX	RESET AIR VENT	ADJUST MANHOLE	ADJUST VALVE BOX	
		EACH	EACH	EACH	EACH	
108+44.43, 6.62' LT	PR-TRAIL			1		
111+93.83, 17.24' LT	PR-TRAIL	2			2	
113+99.58, 10.44' LT	PR-TRAIL	1			1	
114+48.90, 13.30' LT	PR-TRAIL	1			1	
120+47.89, 16.83' LT	PR-TRAIL	1			1	
127+19.26, 12.17' LT	PR-TRAIL		1			
127+19.30, 8.45' LT	PR-TRAIL			1		
127+20.05, 26.96' LT	PR-TRAIL	1			1	
127+25.81, 25.82' LT	PR-TRAIL	1			1	
134+07.84, 23.29' LT	PR-TRAIL			1		
158+01.52, 8.94' LT	PR-TRAIL			1		
158+73.06, 7.97' RT	PR-TRAIL		1			
162+00.89, 4.71' LT	PR-TRAIL			1		
TOTAL:		7	2	5	7	

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/26/2024	Sheet Revisions			 ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON. CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2 UTILITY TABULATION		Project No./Code
	File Name: Utility_Tab.dgn	Date:	Comments	Init.		No Revisions:			STU M145-013
	Horiz. Scale:      Vert. Scale: As Noted					Revised:	Designer: Z. CRIMMINS	Checker: D. DYER	23593
	Unit Information					Void:	Detailer: Z. CRIMMINS		Sheet Number 127
 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					Sheet Subset: TABS	Subset Sheets: 01 of 01			



MATCHLINE 105+10.00



**NOTES:**

- RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION.

- TV---TV--- TV UNDERGROUND CABLE
- T---T--- TELEPHONE UNDERGROUND CONDUIT
- FO---FO--- FIBER OPTICS UNDERGROUND CABLE
- W---W--- WATER LINE
- S---S--- SANITARY SEWER PIPE
- E---E--- ELECTRICAL UNDERGROUND LINE
- E---OH--- ELECTRICAL OVERHEAD LINE
- G---G--- GAS LINE

**LEGEND:**

- (X-XX) UTILITY CONFLICT NUMBER
- POTHOLE IDENTIFICATION NUMBER

All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/26/2024  
 File Name: 30322\_Utility Plan Sheets & Conflict Matrix.dgn  
 Horiz. Scale: 1"=40' Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
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 Phone: 303-799-6806

Sheet Revisions		
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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

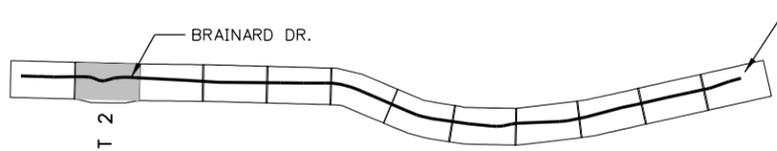
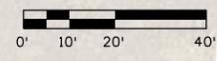
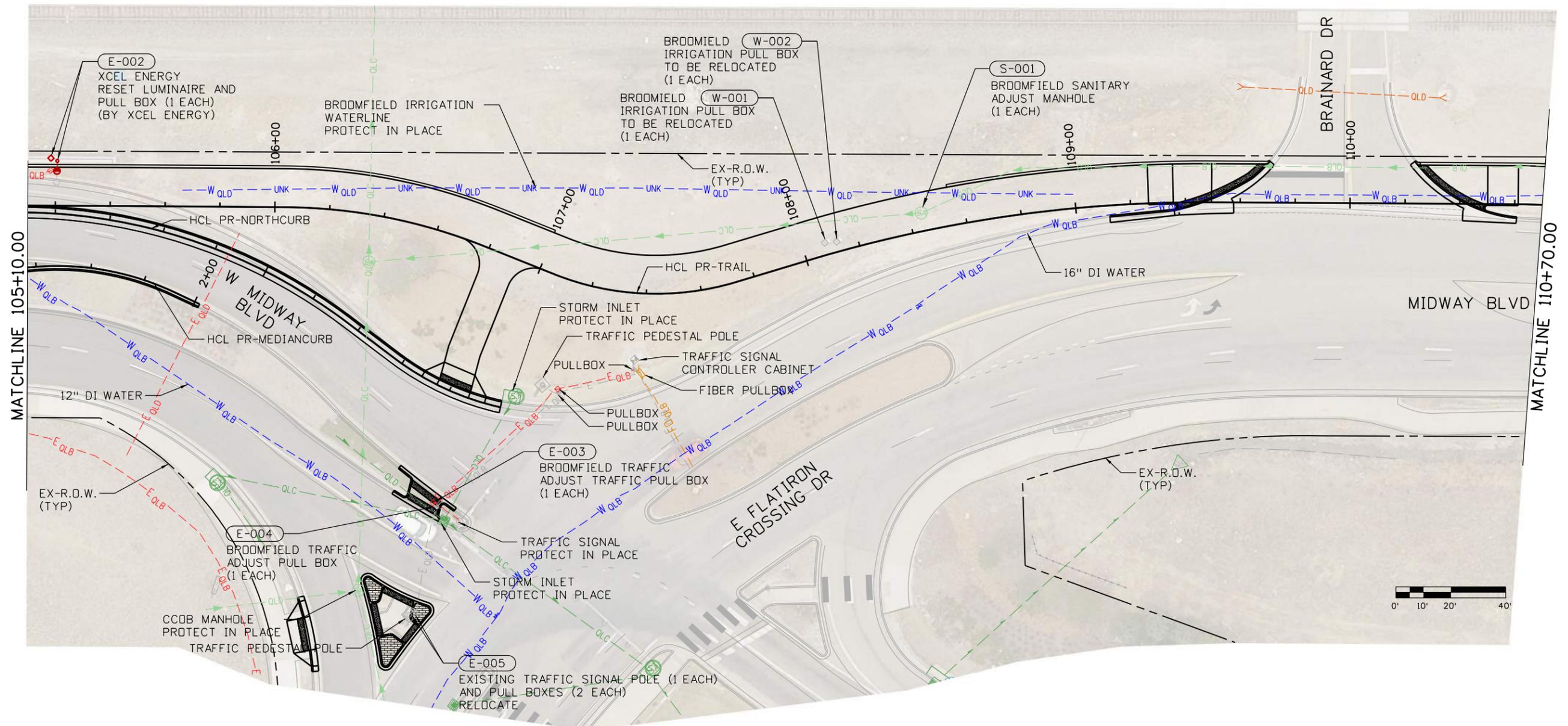
As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 UTILITY PLANS  
 100+00 TO 105+10**

Designer: D. DYER  
 Checker: C. ATWATER  
 Detailer: D. DYER  
 Sheet Subset: UTILITY  
 Subset Sheets: 01 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **128**

10:35 4:00:14 PM pw:\SCI-PW\INTEG-2\stanleygroup.com\Datasec\1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2\11-CADD\Worksets\30322.01\DNB\Utilities\Sheets\Utility Plans and Conflict Matrix



KEYMAP  
SEE KEYMAP SHEET FOR MORE DETAILS

- TV---TV--- TV UNDERGROUND CABLE
- T---T--- TELEPHONE UNDERGROUND CONDUIT
- FO---FO--- FIBER OPTICS UNDERGROUND CABLE
- W---W--- WATER LINE
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- G---G--- GAS LINE

**LEGEND:**

- (X-XX) UTILITY CONFLICT NUMBER
- POTHOLE IDENTIFICATION NUMBER

**NOTES:**

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/26/2024  
 File Name: 30322\_Utility Plan Sheets & Conflict Matrix.dgn  
 Horiz. Scale: 1"=40' Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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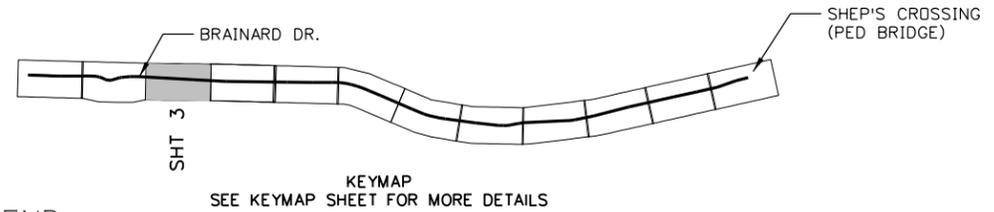
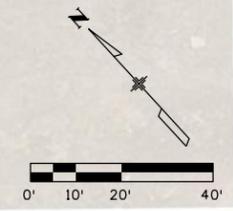
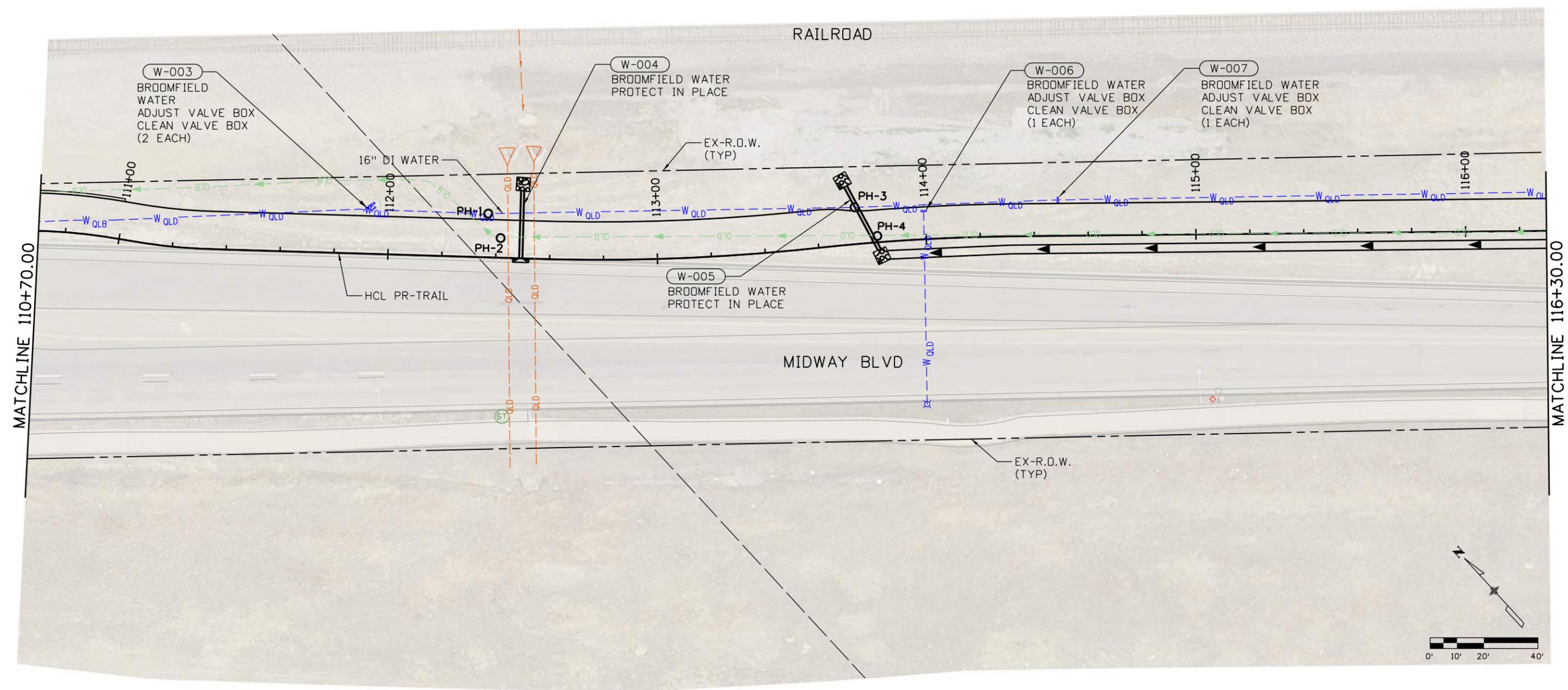
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2
No Revisions:	UTILITY PLANS
Revised:	105+10 TO 110+70
Void:	

Designer:	D. DYER	Checker:	C. ATWATER
Detailer:	D. DYER		
Sheet Subset:	UTILITY	Subset Sheets:	02 of 12

Project No./Code	STU M145-013
	23593
Sheet Number	129

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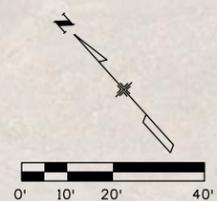
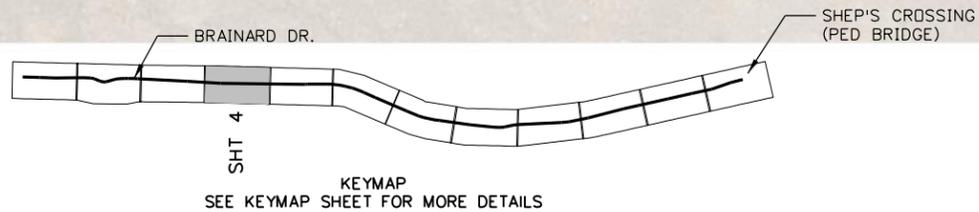
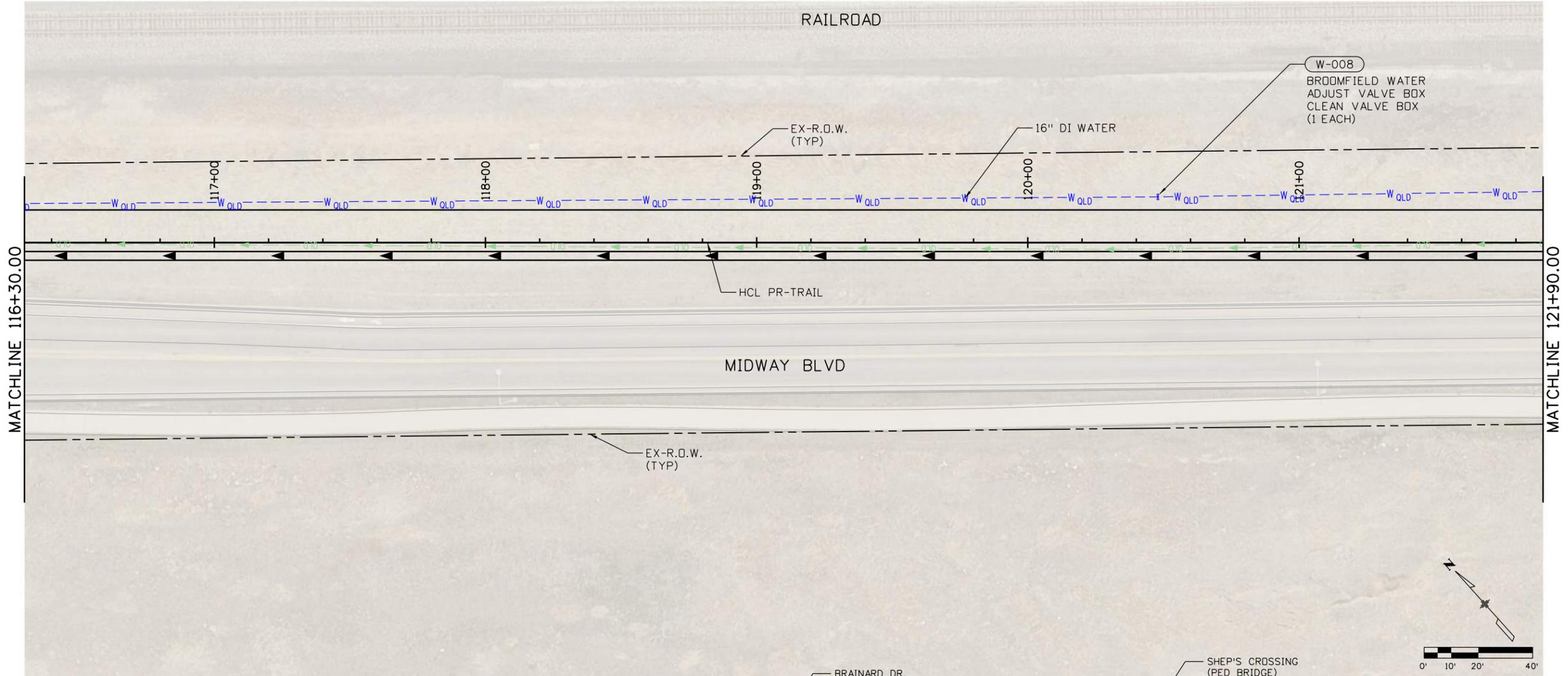
- LEGEND:**
- (X-XX) UTILITY CONFLICT NUMBER
  - POTHOLE IDENTIFICATION NUMBER

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	Horiz. Scale: 1"=40'    Vert. Scale: As Noted	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Date:		Comments	Init.										No Revisions:	Designer: D. DYER    Checker: C. ATWATER	23593
	Date:	Comments			Init.															
Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Revised:	Detailer: D. DYER	Sheet Subset: UTILITY    Subset Sheets: 03 of 12	Sheet Number <b>130</b>																

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**LEGEND:**

- (X-XX) UTILITY CONFLICT NUMBER
- POTHOLE IDENTIFICATION NUMBER

All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/26/2024  
 File Name: 30322\_Utility Plan Sheets & Conflict Matrix.dgn  
 Horiz. Scale: 1"=40' Vert. Scale: As Noted  
 Unit Information

8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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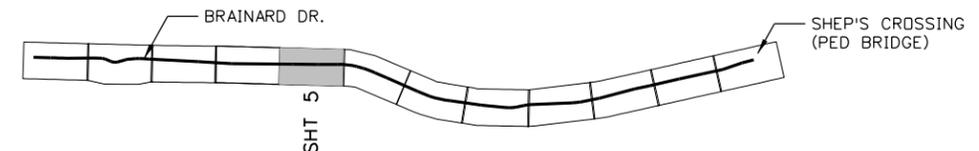
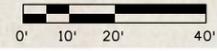
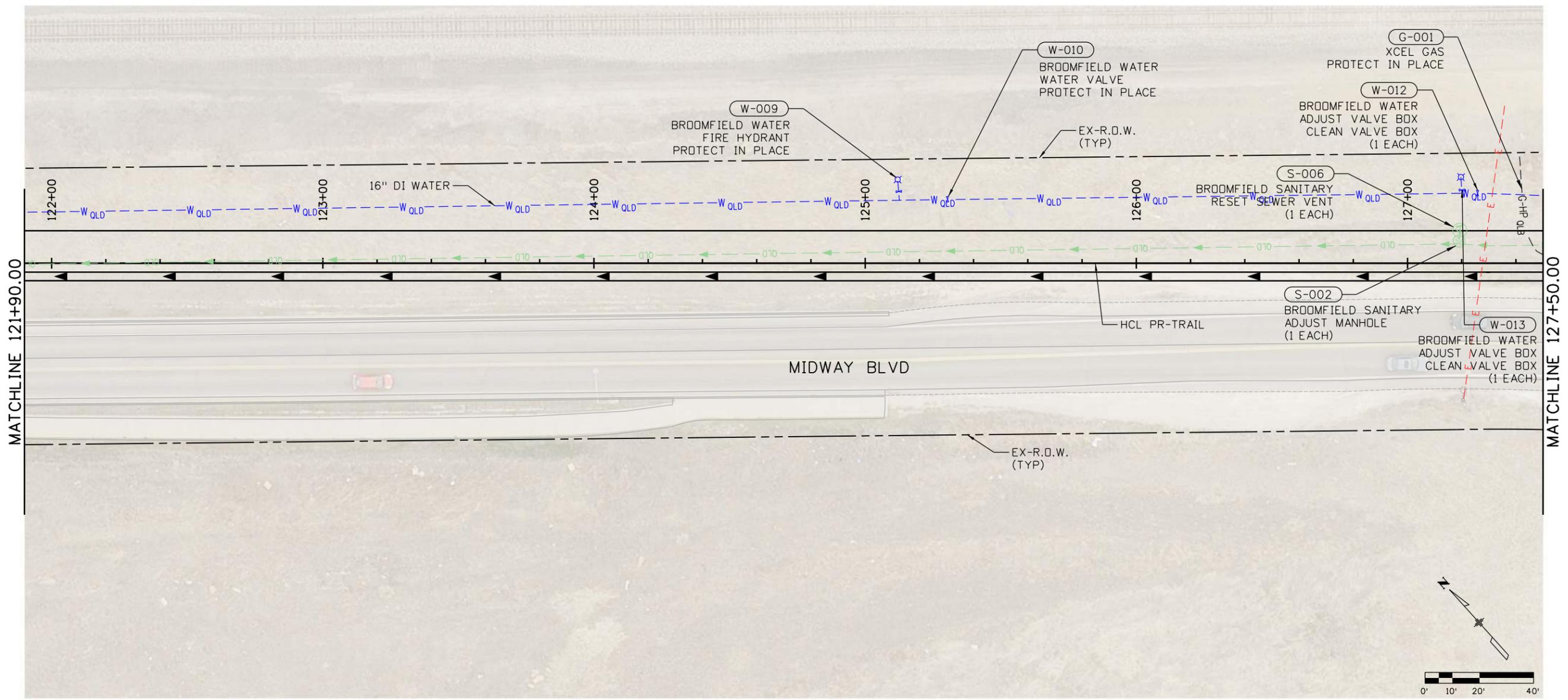
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2
No Revisions:	UTILITY PLANS
Revised:	116+30 TO 121+90
Void:	

Designer:	D. DYER	Checker:	C. ATWATER
Detailer:	D. DYER		
Sheet Subset:	UTILITY	Subset Sheets:	04 of 12

Project No./Code	STU M145-013
	23593
Sheet Number	<b>131</b>

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KEYMAP  
SEE KEYMAP SHEET FOR MORE DETAILS

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**LEGEND:**

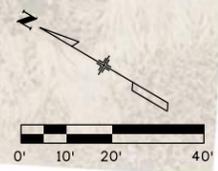
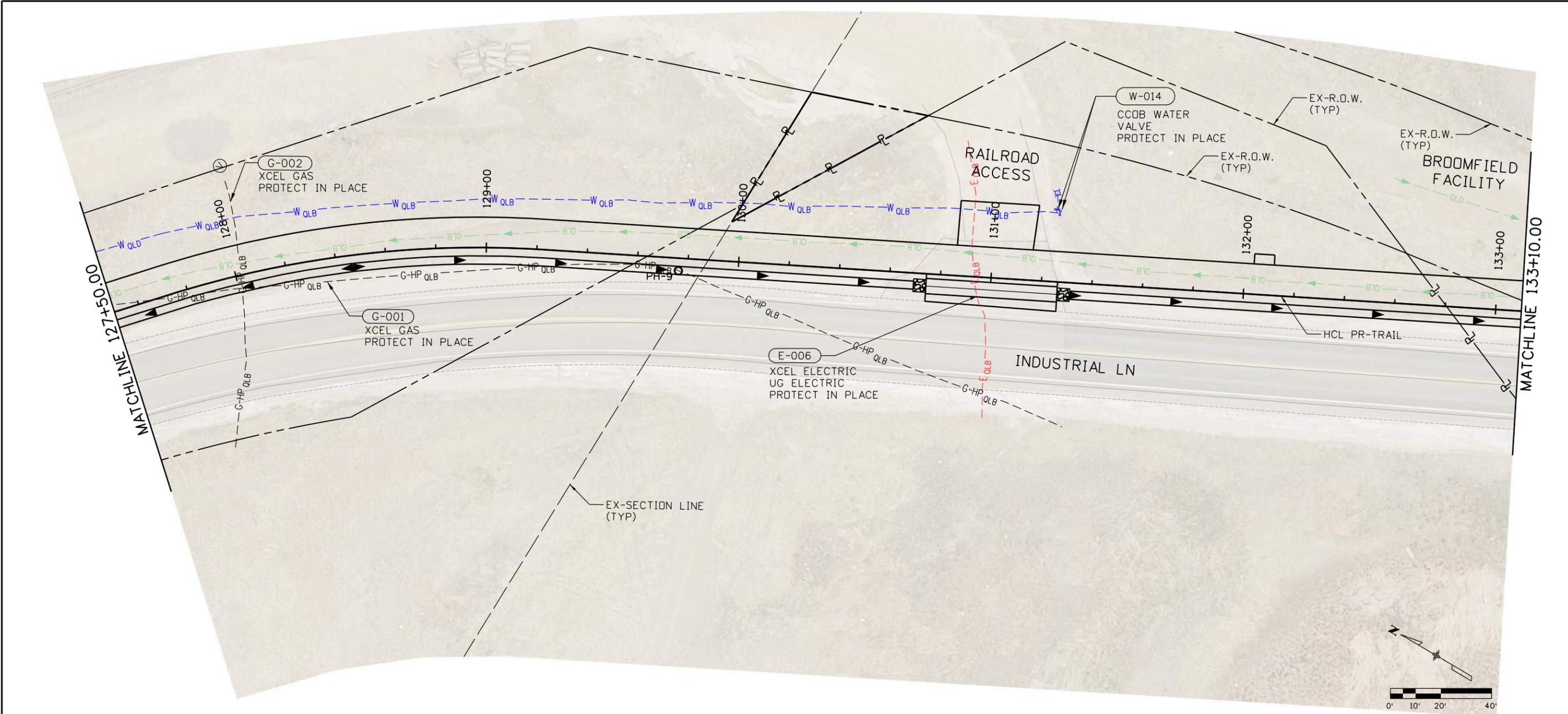
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	File Name: 30322_Utility Plan Sheets & Conflict Matrix.dgn	Date:	Comments	Init.			No Revisions:	<b>UTILITY PLANS</b>		121+90 TO 127+50		STU M145-013
	Unit Information						Revised:	Designer: D. DYER	Checker: C. ATWATER			23593
	8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806						Void:	Detailer: D. DYER		Sheet Subset: UTILITY	Subset Sheets: 05 of 12	Sheet Number <b>132</b>

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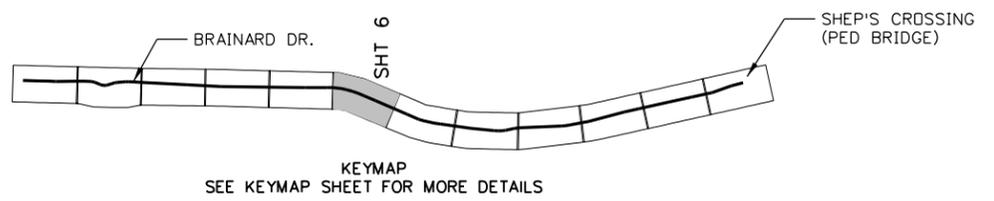
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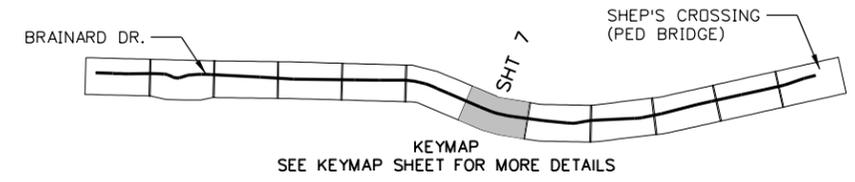
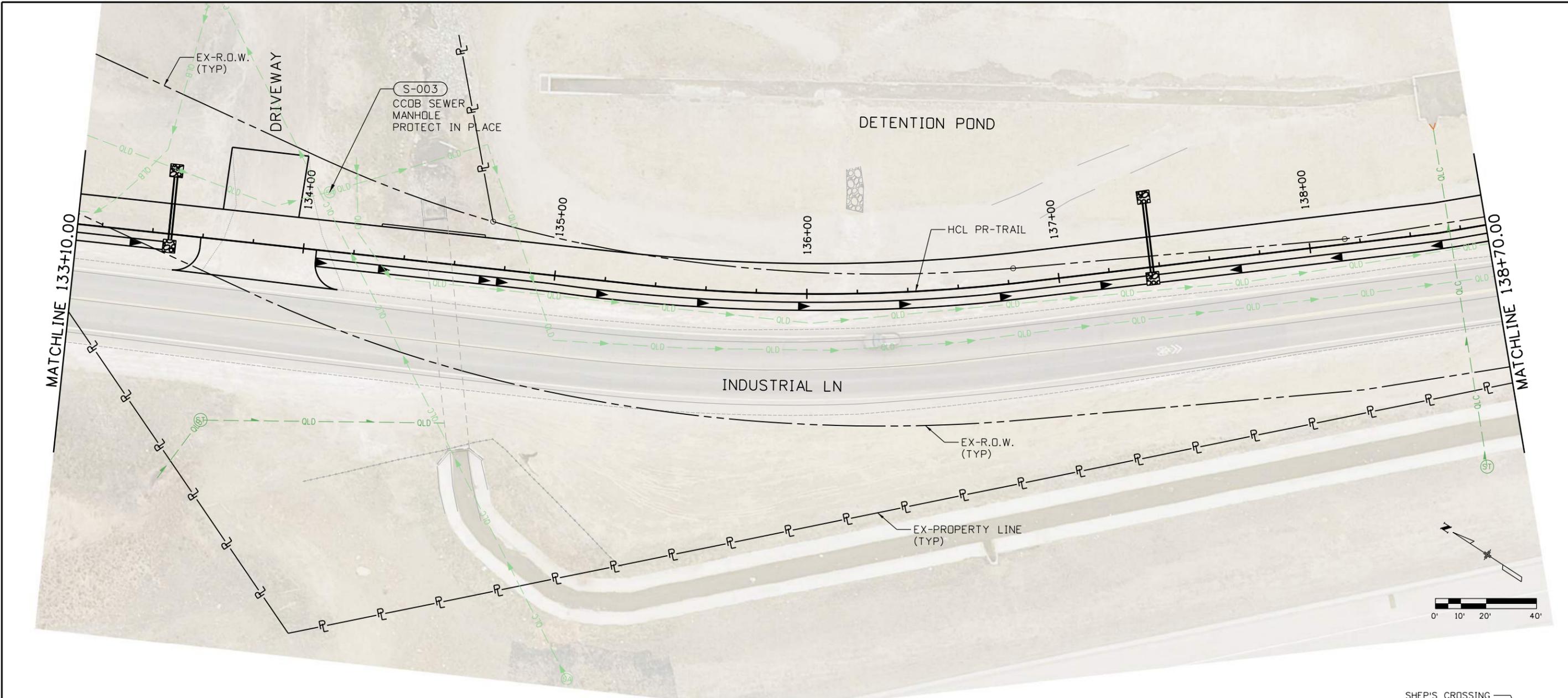
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	Horiz. Scale: 1"=40'    Vert. Scale: As Noted	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Date:		Comments	Init.										No Revisions:	Designer: D. DYER    Checker: C. ATWATER	23593
	Date:	Comments			Init.															
Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Revised:	Detailer: D. DYER	Sheet Subset: UTILITY    Subset Sheets: 06 of 12	Sheet Number <b>133</b>																

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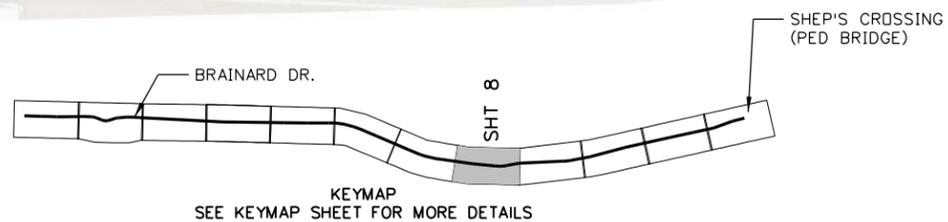
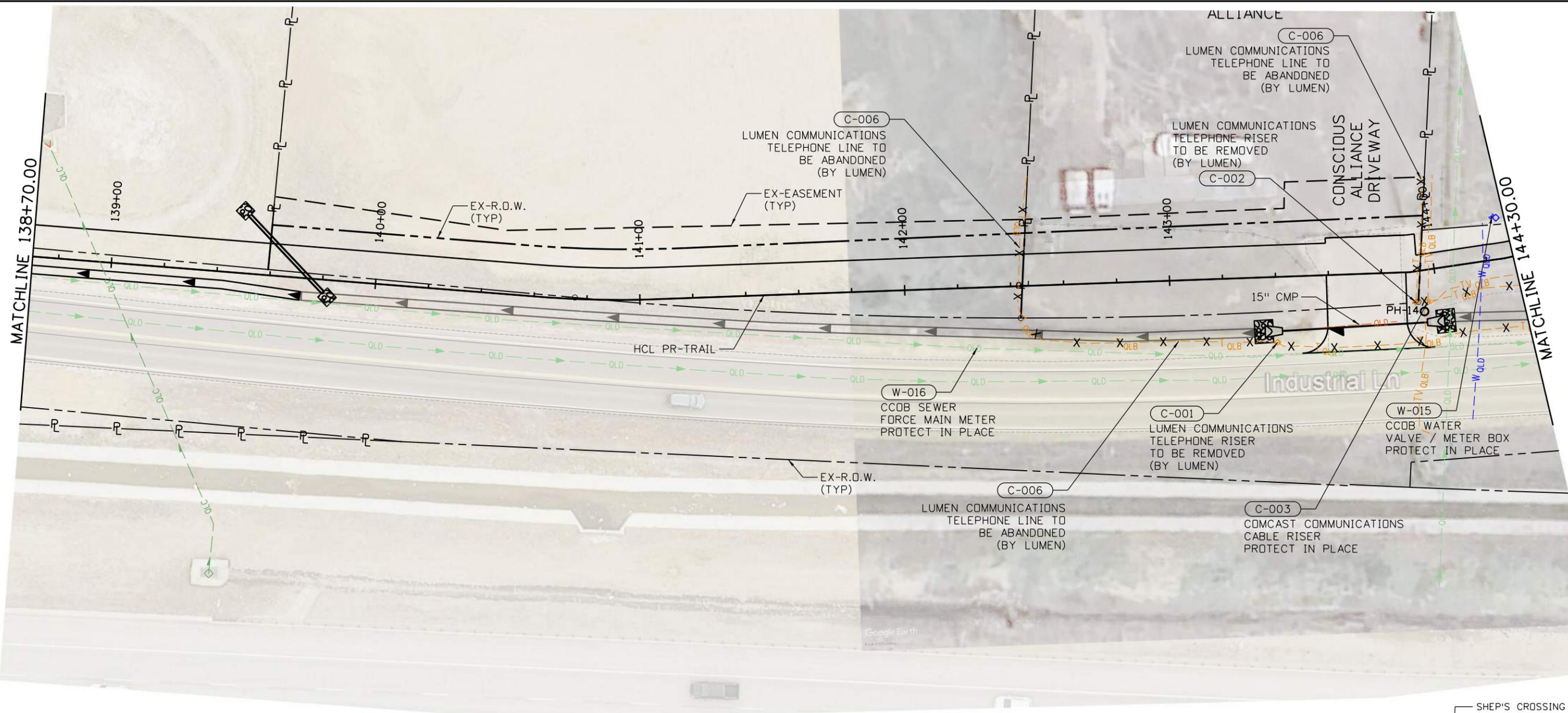
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- FO--- FIBER OPTICS UNDERGROUND CABLE
- W--- WATER LINE
- S--- SANITARY SEWER PIPE
- E--- ELECTRICAL UNDERGROUND LINE
- E---OH--- ELECTRICAL OVERHEAD LINE
- G--- GAS LINE

- LEGEND:**
- (X-XX) UTILITY CONFLICT NUMBER
  - POTHOLE IDENTIFICATION NUMBER

**NOTES:**

1. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/26/2024 File Name: 30322_Utility Plan Sheets & Conflict Matrix.dgn	<b>Sheet Revisions</b>		ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  CITY ENGINEER (OR DESIGNEE) _____ DATE _____	As Constructed	<b>INDUSTRIAL LANE BIKEWAY PHASE 2 UTILITY PLANS 133+10 TO 138+70</b>	Project No./Code STU M145-013													
	Horiz. Scale: 1"=40'    Vert. Scale: As Noted	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Date:		Comments	Init.										No Revisions:	Designer: D. DYER    Checker: C. ATWATER	23593
	Date:	Comments			Init.															
Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Revised:	Detailer: D. DYER	Sheet Subset: UTILITY    Subset Sheets: 07 of 12	Sheet Number <b>134</b>																



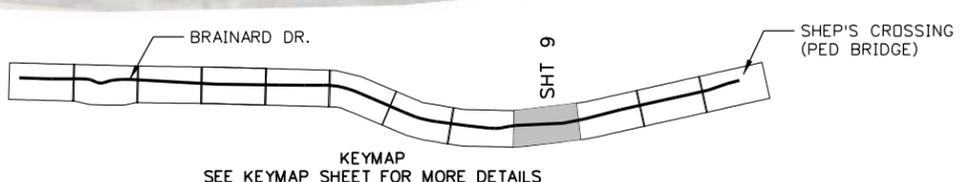
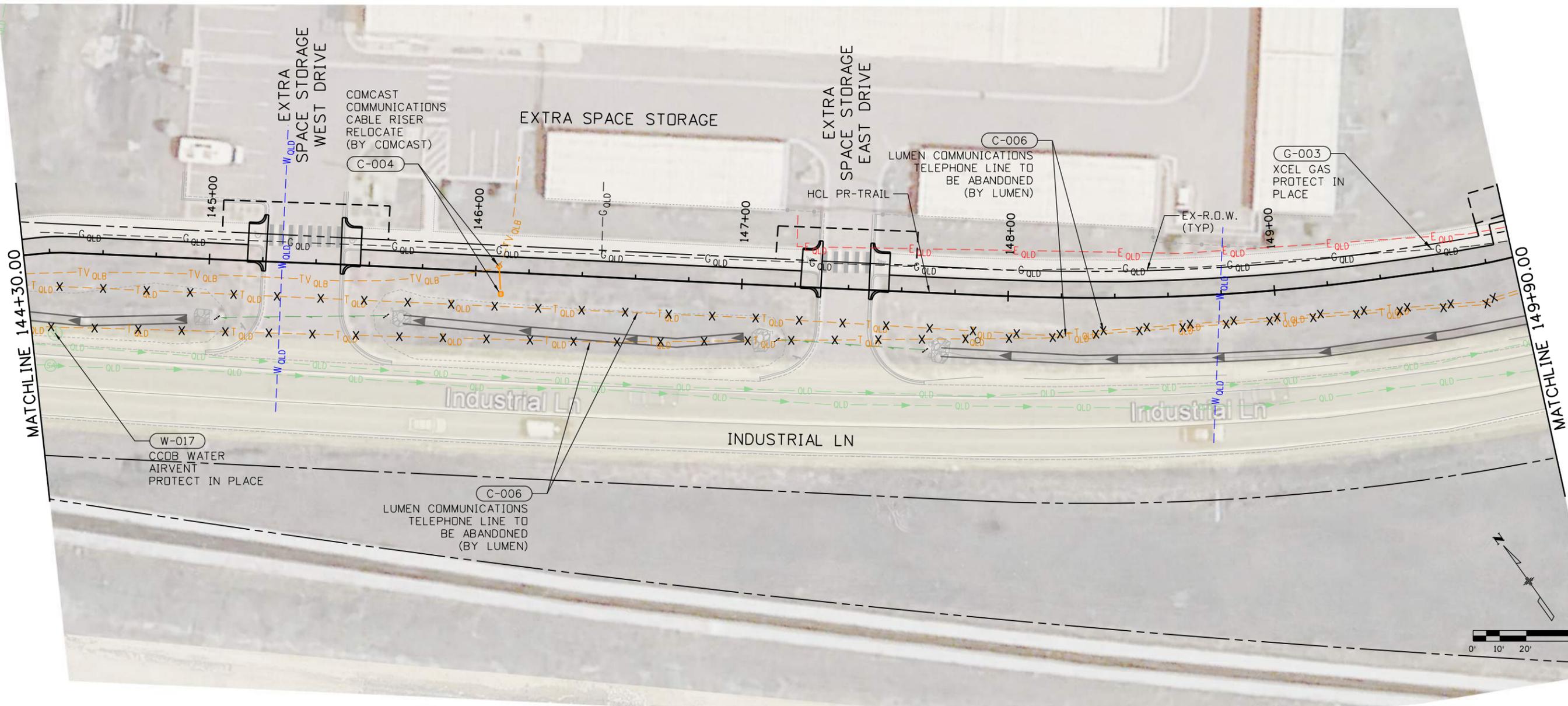
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- LEGEND:**
- (X-XX) UTILITY CONFLICT NUMBER
  - O POTHOLE IDENTIFICATION NUMBER

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	File Name: 30322_Utility Plan Sheets & Conflict Matrix.dgn	Date:	Comments	Init.			No Revisions:		UTILITY PLANS		138+70 TO 144+30		STU M145-013	
	Unit Information						Revised:		Designer:	D. DYER	Checker:	C. ATWATER	23593	
	8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806						Void:		Detailer:	D. DYER			Sheet Number <b>135</b>	
					CITY ENGINEER (OR DESIGNEE) _____ DATE _____		Sheet Subset: UTILITY		Subset Sheets: 08 of 12					



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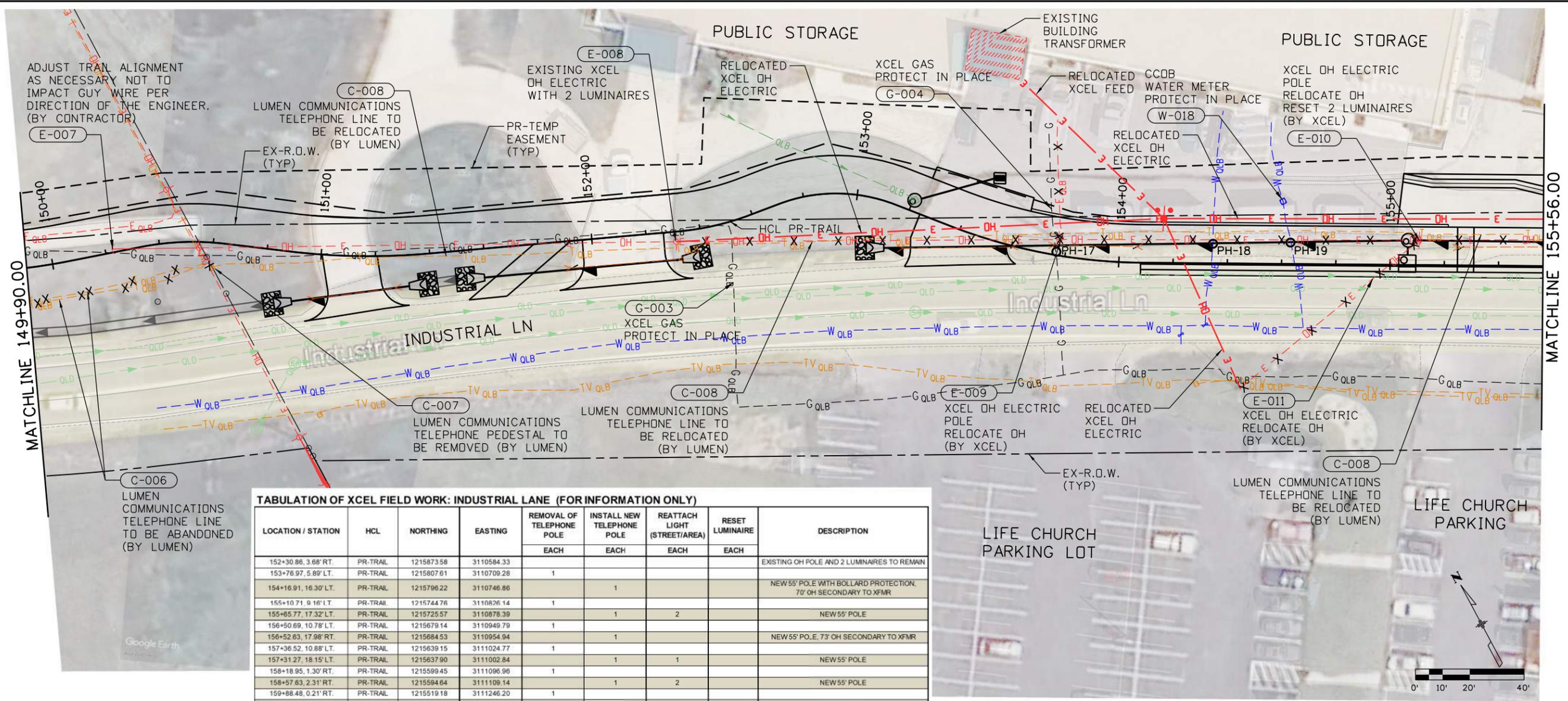
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	Horiz. Scale: 1"=40'    Vert. Scale: As Noted	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments			Init.										No Revisions:	Designer: D. DYER    Checker: C. ATWATER		23593
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Unit Information 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806	Revised:	Detailer: D. DYER		Sheet Number <b>136</b>																

10:35 4:00:01 PM p:\s\SC1-PW\INTEG-2.stonygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322\_01 - Industrial Lane Ph 2\11-CADD\Worksheets\30322\_01\DGNS\Utilities\Sheets\Utility Plans and Conflict Matrix



**TABULATION OF XCEL FIELD WORK: INDUSTRIAL LANE (FOR INFORMATION ONLY)**

LOCATION / STATION	HCL	NORTHING	EASTING	REMOVAL OF TELEPHONE POLE	INSTALL NEW TELEPHONE POLE	REATTACH LIGHT (STREET/AREA)	RESET LUMINAIRE	DESCRIPTION
				EACH	EACH	EACH	EACH	
152+30.86, 3.68' RT.	PR-TRAIL	1215873.58	3110584.33					EXISTING OH POLE AND 2 LUMINAIRES TO REMAIN
153+76.97, 5.89' LT.	PR-TRAIL	1215807.61	3110709.28	1				
154+16.91, 16.30' LT.	PR-TRAIL	1215796.22	3110746.86		1			NEW 55' POLE WITH BOLLARD PROTECTION, 70' OH SECONDARY TO XFMR
155+10.71, 9.16' LT.	PR-TRAIL	1215744.76	3110826.14	1				
155+65.77, 17.32' LT.	PR-TRAIL	1215725.57	3110878.39		1	2		NEW 55' POLE
156+50.69, 10.78' LT.	PR-TRAIL	1215679.14	3110949.79	1				
156+52.63, 17.98' RT.	PR-TRAIL	1215684.53	3110954.94		1			NEW 55' POLE, 73' OH SECONDARY TO XFMR
157+36.52, 10.88' LT.	PR-TRAIL	1215639.15	3111024.77	1				
157+31.27, 18.15' LT.	PR-TRAIL	1215637.90	3111002.84		1	1		NEW 55' POLE
158+18.95, 1.30' RT.	PR-TRAIL	1215599.45	3111096.96	1				
158+57.63, 2.31' RT.	PR-TRAIL	1215594.64	3111109.14		1	2		NEW 55' POLE
159+88.48, 0.21' RT.	PR-TRAIL	1215519.18	3111246.20	1				
160+03.00, 1.09' RT.	PR-TRAIL	1215511.42	3111258.50		1			NEW 55' POLE
161+67.90, 0.89' LT.	PR-TRAIL	1215434.12	3111404.10	1				
161+87.58, 3.12' RT.	PR-TRAIL	1215430.26	3111411.65		1	1		NEW 55' POLE
163+38.63, 22.88' RT.	PR-TRAIL	1215354.19	3111552.58	1				EXISTING OH POLE TO REMAIN
102+25.63, 16.06' LT.	PR-TRAIL	1219319.94	3107056.10				1	RESET PULLBOX W/LUMINAIRE
105+20.69, 16.29' LT.	PR-TRAIL	1219125.67	3107278.26				1	RESET PULLBOX W/LUMINAIRE
164+30.41, 13.88' LT.	PR-TRAIL	1215339.19	3111649.69				1	RESET PULLBOX W/LUMINAIRE
<b>TOTAL:</b>				<b>8</b>	<b>7</b>	<b>6</b>	<b>3</b>	

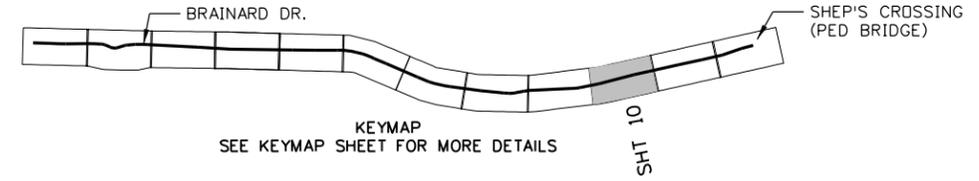
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**LEGEND:**

- (X-XX) UTILITY CONFLICT NUMBER
- POTHOLE IDENTIFICATION NUMBER



All seals for this set of drawings are applied to the cover page(s)

Print Date: 8/26/2024  
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 Horiz. Scale: 1"=40' Vert. Scale: As Noted  
 Unit Information  
  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

**Sheet Revisions**

Date:	Comments	Init.



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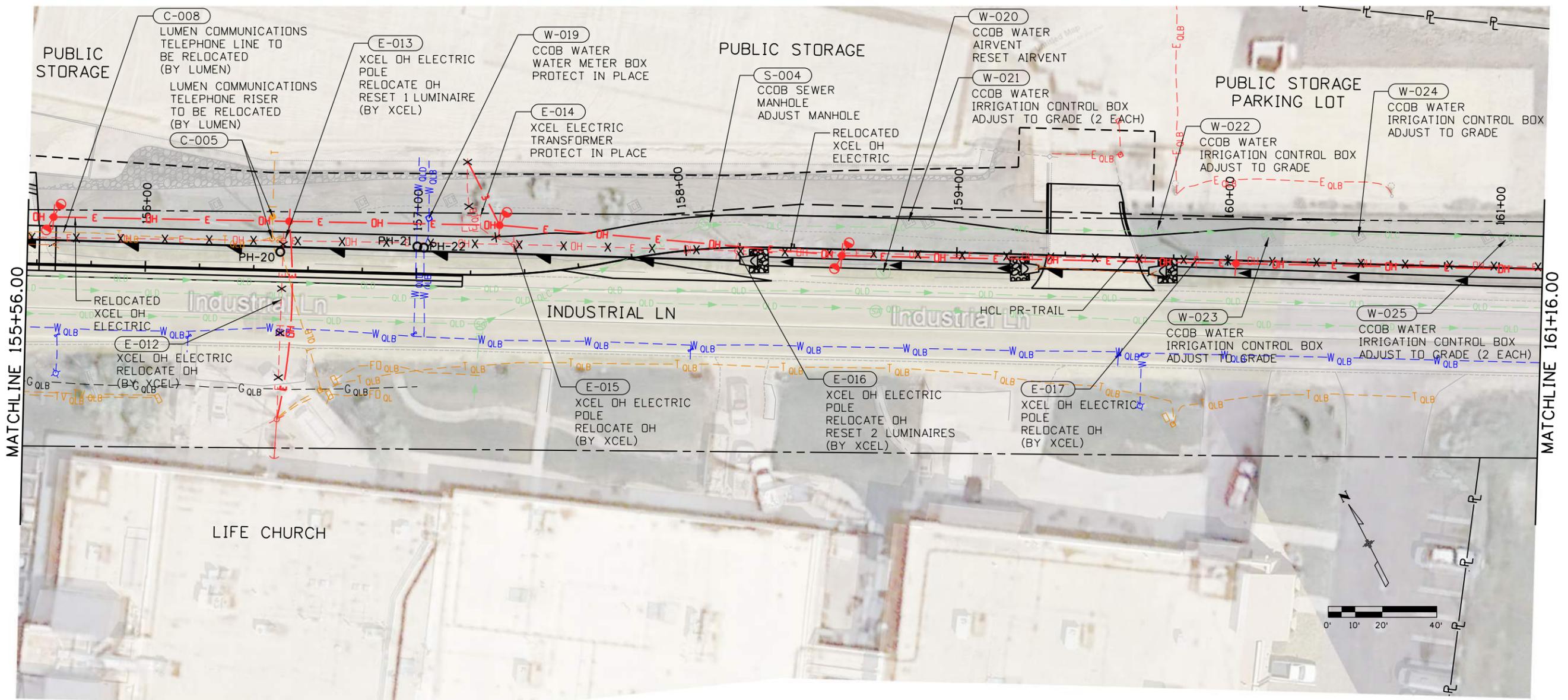
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 UTILITY PLANS  
 149+90 TO 155+56**

Designer: D. DYER  
 Checker: C. ATWATER  
 Detailer: D. DYER  
 Sheet Subset: UTILITY  
 Subset Sheets: 10 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **137**



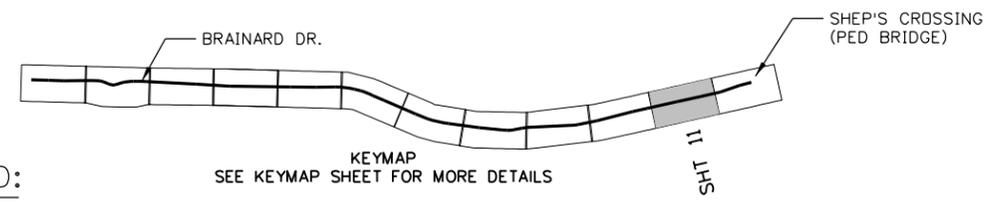
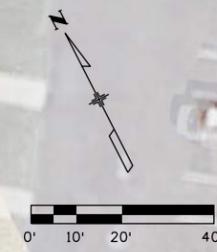
LIFE CHURCH

INDUSTRIAL LN

PUBLIC STORAGE  
PARKING LOT

PUBLIC STORAGE

PUBLIC STORAGE



**NOTES:**

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**LEGEND:**

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 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
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Sheet Revisions		
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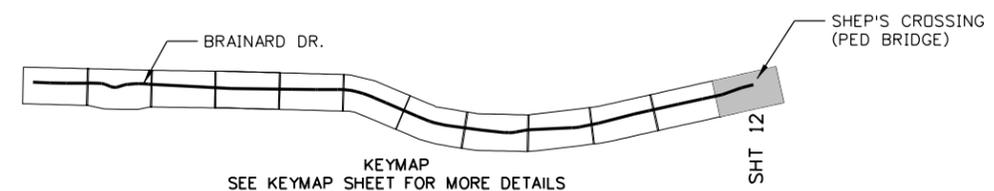
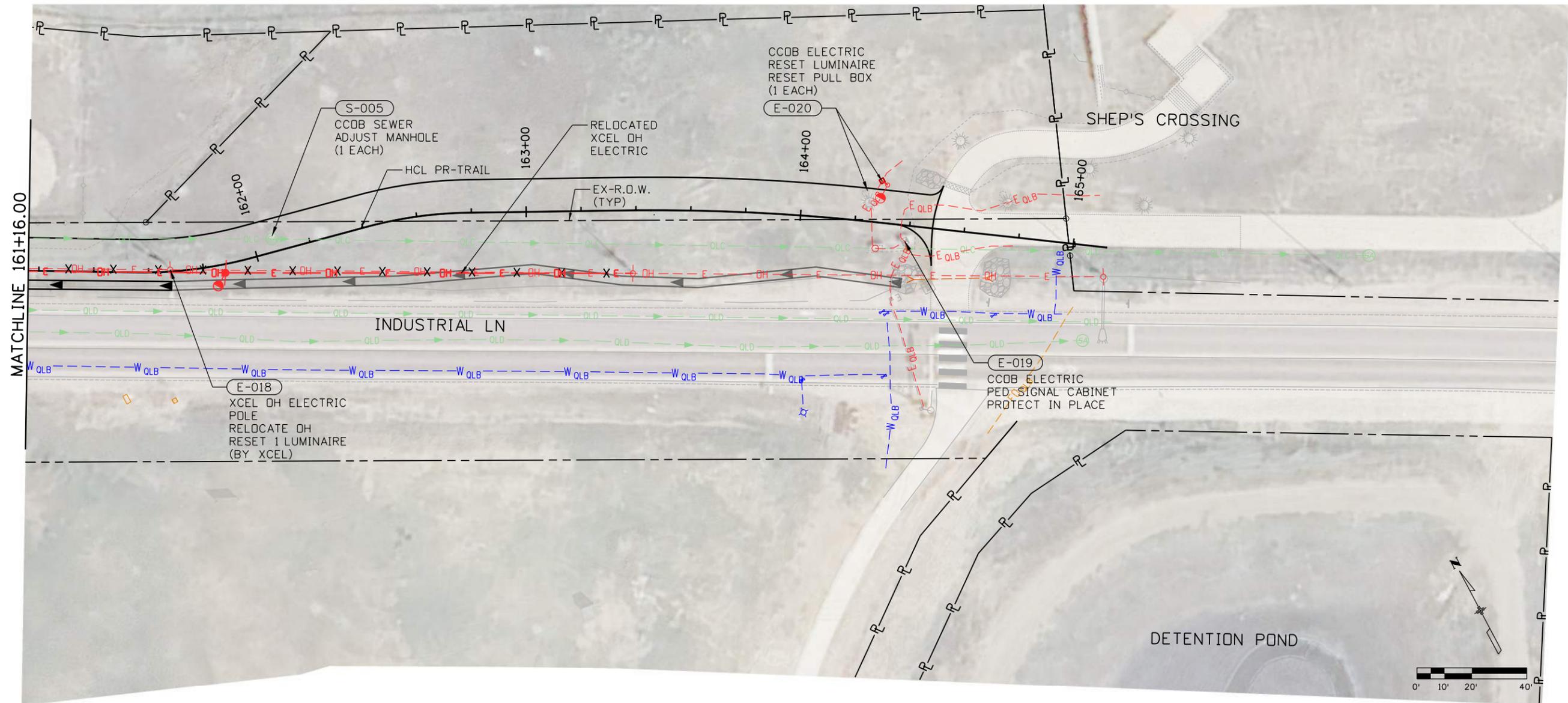
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 UTILITY PLANS  
 155+56 TO 161+16**

Designer: D. DYER  
 Checker: C. ATWATER  
 Detailer: D. DYER  
 Sheet Subset: UTILITY  
 Subset Sheets: 11 of 12

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **138**



**NOTES:**

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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2
No Revisions:	UTILITY PLANS
Revised:	161+16 TO 165+00
Void:	

Designer:	D. DYER	Checker:	C. ATWATER
Detailer:	D. DYER		
Sheet Subset:	UTILITY	Subset Sheets:	12 of 12

Project No./Code	STU M145-013
	23593
Sheet Number	139

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**TABULATION OF SIGNING:**

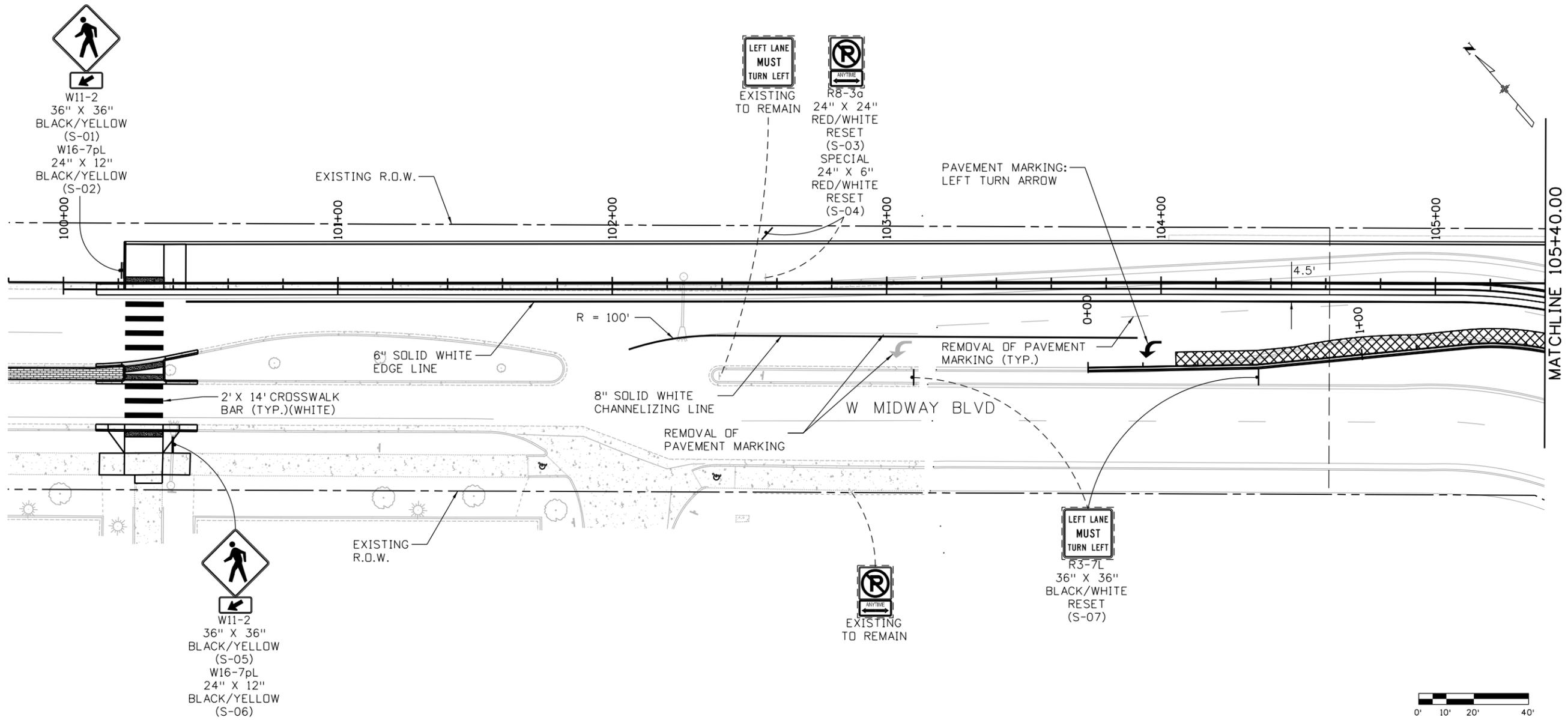
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											CLASS I	CLASS II
											F.I.O. (EA)	214-00011 (SF)
S-01	W11-2	PEDESTRIAN CROSSING	36	X	36	YELLOW			1	12.00		9.00
S-02	W16-7pL	DOWNWARD ARROW LEFT	24	X	12	YELLOW		MOUNT ON S-01			2.00	
S-03	R8-3a	NO PARKING	24	X	24	WHITE	1		1	12.00		
S-04	SPECIAL	ANYTIME	24	X	6	WHITE		MOUNT ON S-03				
S-05	W11-2	PEDESTRIAN CROSSING	36	X	36	YELLOW			1	12.00		9.00
S-06	W16-7pL	DOWNWARD ARROW LEFT	24	X	12	YELLOW		MOUNT ON S-05			2.00	
S-07	R3-7L	LEFT LANE MUST TURN LEFT	36	X	36	WHITE	1		1	12.00		9.00
S-08	D11-1a	BICYCLE	18	X	18	GREEN			1	12.00	2.25	
S-09	M5-2	FORWARD LEFT	12	X	9	GREEN		MOUNT ON S-08			0.75	
S-10	R1-2	YIELD	18	X	18	WHITE			1	12.00	2.25	
S-11	R1-2	YIELD	18	X	18	WHITE			1	12.00	2.25	
S-12	R1-2	YIELD	18	X	18	WHITE			1	12.00	2.25	
S-13	D11-1a	BICYCLE	18	X	18	GREEN			1	12.00	2.25	
S-14	M6-2	UPWARD ARROW RIGHT	12	X	9	GREEN		MOUNT ON S-13			0.75	
<b>TOTAL</b>						<b>2</b>	<b>1</b>		<b>9</b>	<b>108</b>	<b>17</b>	<b>27</b>

**TABULATION OF STRIPING:**

SHEET	PAVEMENT MARKING PAINT (WATERBORNE)		PERFORMED THERMOPLASTIC PAVEMENT MARKING				
	627-00011		627-00070				
	6" SOLID WHITE	8" SOLID WHITE	STOP BAR	CROSSWALK (2'X8')	CROSSWALK (2'X12')	CROSSWALK (2'X14')	LEFT OR RIGHT ARROW
	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)
TRAFFIC PLAN 1	500	200				7	1
TRAFFIC PLAN 2	160		50	5	22		
TRAFFIC PLAN 3						8	
TRAFFIC PLAN 4							
TRAFFIC PLAN 5							
<b>TOTAL (LF OR EA)</b>	<b>660</b>	<b>200</b>	<b>50</b>	<b>5</b>	<b>22</b>	<b>15</b>	<b>1</b>
<b>TOTAL (SF)</b>	<b>330</b>	<b>133</b>	<b>100</b>	<b>80</b>	<b>528</b>	<b>420</b>	<b>16</b>
<b>TOTAL (GAL)</b>	<b>3</b>	<b>2</b>					
<b>TOTAL (GAL OR SF)</b>	<b>5</b>		<b>1144</b>				

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	File Name: 30322_Signing & Striping Tabs.dgn	Date:	Comments	Init.			No Revisions:	<b>SIGNING &amp; STRIPING</b>		<b>TABULATIONS</b>		STU M145-013
	Unit Information	Horiz. Scale:	Vert. Scale: As Noted				Revised:	Designer: M. ROMERO	Checker: D. DYER			23593
	8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806						Void:	Detailer: M. ROMERO		Sheet Subset: TRFFC TAB	Subset Sheets: 01 of 01	Sheet Number <b>140</b>

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Unit Information    XXX
Stanley Consultants inc. 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806

Sheet Revisions		
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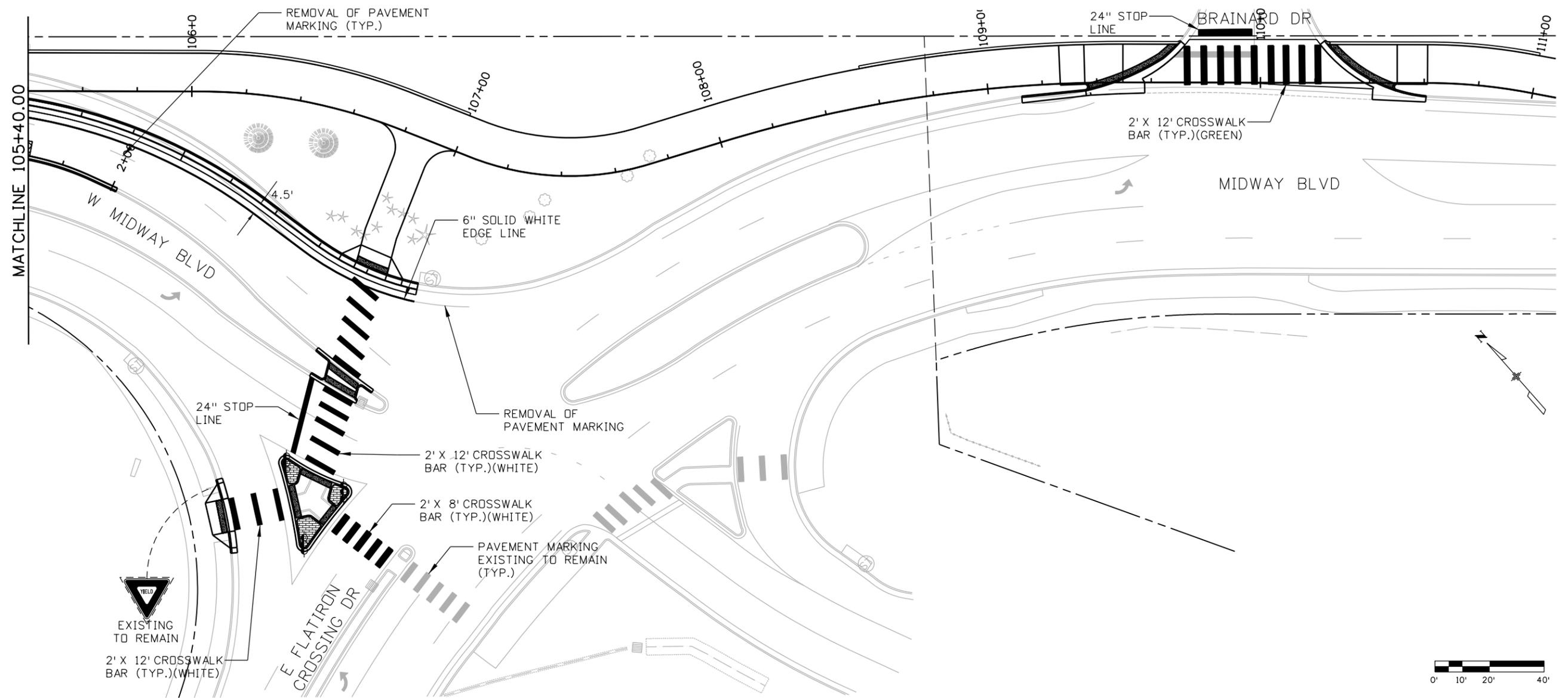
CITY ENGINEER (OR DESIGNEE)    DATE

As Constructed
No Revisions:
Revised:
Void:

INDUSTRIAL LANE BIKEWAY PHASE 2 SIGNING & STRIPING			
Designer:	M. ROMERO	Checker:	D. DYER
Detailer:	M. ROMERO		
Sheet Subset:	TRAFFIC	Subset Sheets:	01 of 05

Project No./Code	STU M145-013
	23593
Sheet Number	141

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Sheet Revisions		
Date:	Comments	Init.



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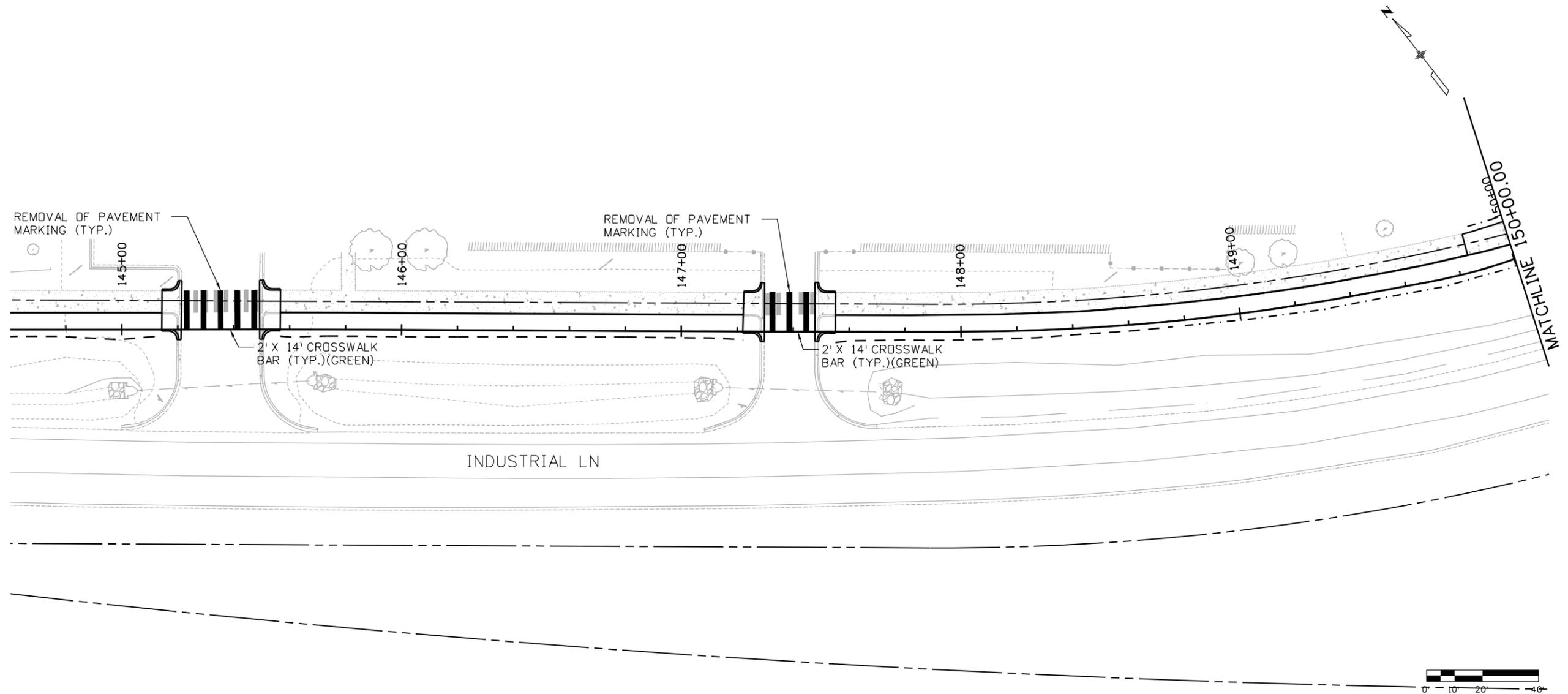
CITY ENGINEER (OR DESIGNEE)      DATE

As Constructed
No Revisions:
Revised:
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INDUSTRIAL LANE BIKEWAY PHASE 2 SIGNING & STRIPING			
Designer:	M. ROMERO	Checker:	D. DYER
Detailer:	M. ROMERO		
Sheet Subset:	TRAFFIC	Subset Sheets:	02 of 05

Project No./Code	STU M145-013
	23593
Sheet Number	142

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All seals for this set of drawings are applied to the cover page(s)

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 File Name: 30322\_Signing & Striping Plans.dgn  
 Horiz. Scale: 1"=40' Vert. Scale: As Noted  
 Unit Information XXX  
 Stanley Consultants inc.  
 8000 South Chester St.  
 Suite 400  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

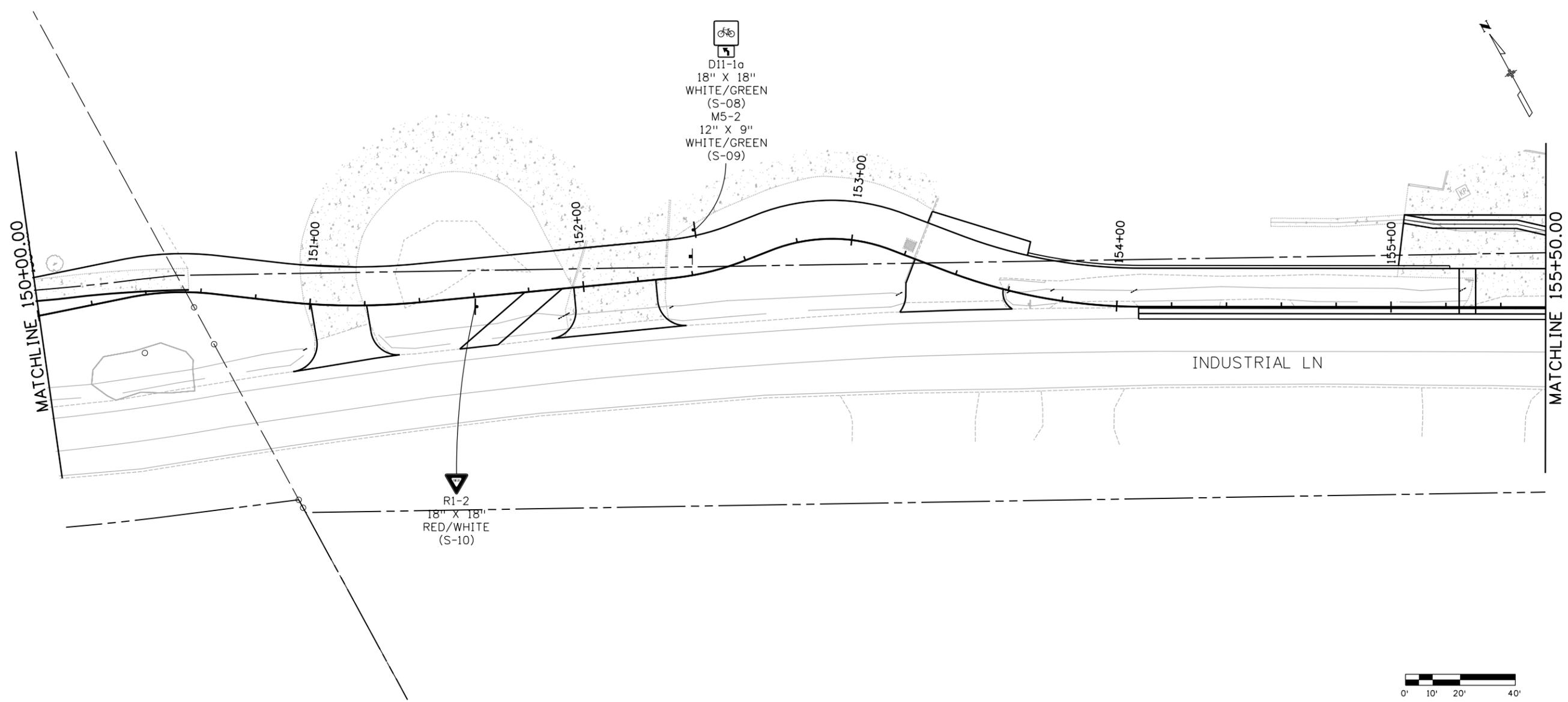
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INDUSTRIAL LANE BIKEWAY PHASE 2  
 SIGNING & STRIPING

Designer: M. ROMERO  
 Checker: D. DYER  
 Detailer: M. ROMERO  
 Sheet Subset: TRAFFIC  
 Subset Sheets: 03 of 05

Project No./Code  
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 23593  
 Sheet Number **143**

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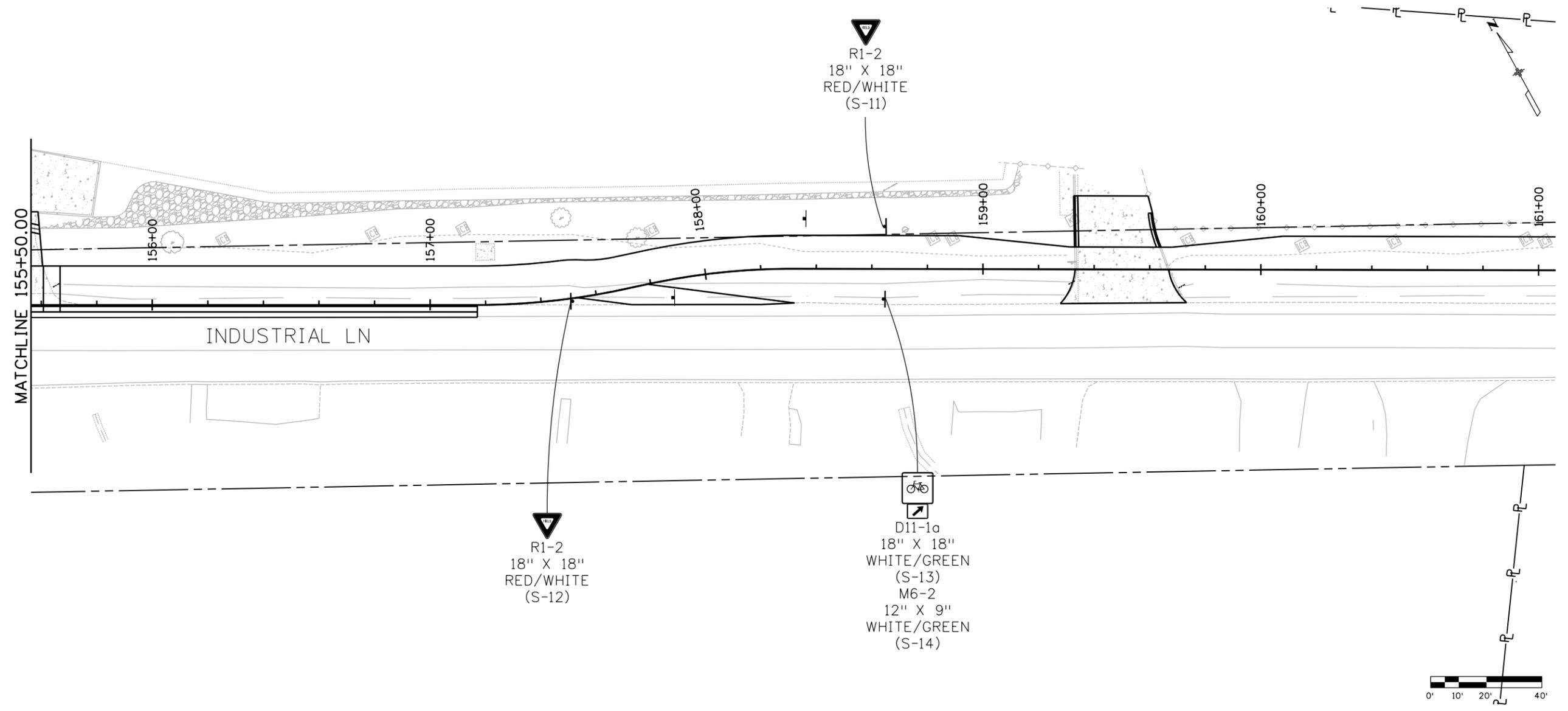
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As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2 SIGNING & STRIPING
No Revisions:	
Revised:	
Void:	

Designer:	M. ROMERO	Checker:	D. DYER
Detailer:	M. ROMERO		
Sheet Subset:	TRAFFIC	Subset Sheets:	04 of 05

Project No./Code  
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 Sheet Number **144**

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8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806

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INDUSTRIAL LANE BIKEWAY PHASE 2 SIGNING & STRIPING			
Designer:	M. ROMERO	Checker:	D. DYER
Detailer:	M. ROMERO		
Sheet Subset:	TRAFFIC	Subset Sheets:	05 of 05

Project No./Code	STU M145-013
	23593
Sheet Number	145

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**CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES:**

- 1: INTERSECTIONS AND DRIVEWAYS SHALL BE CLOSED FOR A MINIMUM AMOUNT OF TIME. THE CONTRACTOR SHALL COORDINATE DRIVEWAY CLOSURES WITH PROPERTY OWNERS WITH FINAL APPROVAL BY THE CITY ENGINEER.
- 2: NO WORK IS ALLOWED ON HOLIDAY-RESTRICTED STREETS (MAJOR SHOPPING ROUTES) BETWEEN NOVEMBER 1 AND JANUARY 1 UNLESS APPROVED BY THE CITY TRAFFIC ENGINEER.
- 3: UNLESS OTHERWISE APPROVED BY BROOMFIELD, CONSTRUCTION OPERATIONS ARE LIMITED TO ONE-HALF OF THE ROADWAY AT ANY TIME. MAINTENANCE ACTIVITIES IN ARTERIAL STREETS OR CONNECTORS SHALL BE PLANNED AND SCHEDULED TO MINIMIZE INTERFERENCE WITH TRAFFIC. EXCEPT FOR EMERGENCY SITUATIONS, NO MAINTENANCE WORK SHALL ENCRDACH INTO A MOVING LANE OF TRAFFIC BETWEEN THE HOURS OF 7:00 TO 9:00 AM OR FROM 4:00 TO 6:00 PM UNLESS OTHERWISE AUTHORIZED BY BROOMFIELD.
- 4: ALL TEMPORARY TRAFFIC LANES SHALL BE A MINIMUM OF TEN (10) FEET IN WIDTH UNLESS OTHERWISE AUTHORIZED. IN ADDITION, LANE CLEARANCE SHALL BE A MINIMUM OF FIVE (5) FEET FROM AN OPEN EXCAVATION AND TWO (2) FEET FROM A CURB OR OTHER VERTICAL OBSTRUCTION.
- 5: A SUITABLE SURFACE SHALL BE PROVIDED FOR ALL ROADWAY USERS AT ALL TIMES. WHEN TRAFFIC IS DIVERTED FROM THE EXISTING PAVEMENT, A TEMPORARY SURFACE SHALL BE PROVIDED. IF DETOUR PAVEMENT IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY CONTROL OF THE MATERIAL. THE THICKNESS OF THE DETOUR PAVEMENT SHALL BE DETERMINED BY THE CONTRACTOR, AND MAINTAINED FOR THE DURATION OF ITS USE. ALL WORK NECESSARY AND INCIDENTAL TO THE CONSTRUCTION AND REMOVAL OF THE DETOUR PAVEMENT WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. DETOUR PAVEMENT TO BE USED AT THE DISCRETION OF THE CITY ENGINEER FOR THE USE OF MAINTAINING VEHICULAR TRAFFIC AS WELL AS PEDESTRIANS AND BICYCLISTS. AN ESTIMATE OF 50 SY IS ASSUMED.
- 6: CONSTRUCTION EQUIPMENT NOT ACTIVELY ENGAGED IN CONSTRUCTION, EMPLOYEE VEHICLES AND OFFICIAL VEHICLES OF THE AGENCY SHALL NOT BE PARKED IN THE VICINITY OF THE WORK IN SUCH A MANNER AS TO FURTHER RESTRICT TRAFFIC FLOW. VEHICLES AND EQUIPMENT IN CONTINUOUS OR FREQUENT USE MAY BE OPERATED OR PARKED IN THE SAME TRAFFIC LANE AS THE WORK OBSTRUCTION. CONSTRUCTION SPOILS OR MATERIALS MAY BE SIMILARLY STORED IN THIS AREA OR ON THE NEARBY ROADWAY OR SIDEWALK AREA, PROVIDED THAT FOUR (4) FEET OF SIDEWALK IS KEPT CLEAR FOR PEDESTRIAN USE. TO PREVENT THE SPOIL BANK FROM OCCUPYING TOO GREAT A SPACE AT ITS BASE, TOE BOARDS MAY BE USED TO KEEP IT TWO (2) FEET FROM THE EDGE OF THE EXCAVATION ON ONE SIDE AND TWO (2) FEET FROM THE EDGE OF THE TRAFFIC LANE ON THE OTHER.
- 7: WHENEVER NECESSARY, TRENCHES AND EXCAVATIONS SHALL BE BRIDGED TO PERMIT AN UNOBSTRUCTED FLOW OF TRAFFIC.
  - A. BRIDGING SHALL BE SECURED AGAINST DISPLACEMENT BY USING ADJUSTABLE CLEATS, ANGLES, BOLTS, OR OTHER DEVICES.
  - B. BRIDGING SHALL BE INSTALLED TO OPERATE WITH MINIMUM NOISE.
  - C. THE TRENCH SHALL BE ADEQUATELY SHORED TO SUPPORT THE BRIDGING AND TRAFFIC.
  - D. STEEL PLATES USED FOR BRIDGING SHALL EXTEND A MINIMUM OF ONE FOOT BEYOND THE EDGES OF THE TRENCH. TEMPORARY PAVING MATERIALS SHALL BE USED TO FEATHER THE EDGES OF THE PLATES TO MINIMIZE WHEEL IMPACT.
  - E. STEEL PLATES USED FOR BRIDGING SHALL BE DESIGNED BY A P.E.
- 8: WHEN THE WORK AREA ENCRDACHES UPON A SIDEWALK, BIKE LANE, WALKWAY OR CROSSWALK AREA, SPECIAL CONSIDERATION SHALL BE GIVEN TO PEDESTRIAN AND BICYCLIST SAFETY. EFFORT SHALL BE MADE TO SEPARATE PEDESTRIANS AND BICYCLISTS FROM THE WORK AREA.
- 9: ALL WORK SHALL BE BARRICADED AT ALL TIMES. BETWEEN SUNSET AND SUNRISE, THE WORK AREA SHALL BE PROPERLY LIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO WORK DUE TO FAILURE OF BARRICADES, SIGNS, LIGHTS, FLAGMEN AND WATCHMEN.
- 10: TRAFFIC CONTROL WILL GENERALLY FOLLOW GUIDANCE PROVIDED IN TYPICAL APPLICATION 10 OF THE MUTCD, AND CASE NO. 10 & NO. 17 OF THE CDOT S STANDARDS.
- 11: PORTABLE MESSAGE SIGN PANELS SHALL BE USED AS DIRECTED BY THE ENGINEER. PORTABLE MESSAGE SIGN PANELS ARE REQUIRED FOR IMPACTED MOVEMENTS SEVEN (7) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION AND THREE (3) DAYS INTO CONSTRUCTION UNLESS OTHERWISE NOTED.
- 12: DRUM CHANNELIZING DEVICES SHALL INCLUDE MULTIPLE RESETS AS NEEDED. THE LARGEST AMOUNT OF DRUMS IN USE AT ANY ONE TIME WILL BE THE AMOUNT THAT IS PAID FOR. RESETS WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST. DRUMS ARE TO BE SPACED AT 35' ON CENTER INTERVALS THROUGHOUT FLATIRON CROSSING DR AND MIDWAY BLVD. DRUMS ARE TO BE SPACED AT 30' ON CENTER INTERVALS ON INDUSTRIAL LN. ALL DRUMS SHALL BE MOVED OFF THE ROADWAY WHEN NOT IN USE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 13: ALL TRAFFIC CONTROL DEVICES REFLECTORIZED DRUMS, SIGNS, PAVEMENT MARKINGS, AND CHANNELIZATION DEVICES, SHALL CONFORM TO LATEST CDOT, MUTCD, AND LOCAL AGENCY STANDARDS.
- 14: CONSTRUCTION OF THE FACILITIES SHALL BE COMPLETED IN A SAFE EXPEDITIOUS MANNER WITHOUT IMPACTING THE STRUCTURAL INTEGRITY OF ADJACENT BUILDINGS, STRUCTURES, AND UTILITIES.
- 15: TWENTY FOUR (24) HOUR EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED FOR ALL STREETS AND PROPERTIES WITHIN THE PROJECT LIMITS.
- 16: EXISTING GROUND MOUNTED SIGNS SHALL BE MAINTAINED/RELOCATED AS NECESSARY. ALL CONFLICTING EXISTING SIGNS SHALL BE MASKED OR REMOVED.
- 17: ALL SIGN LOCATIONS MAY BE ADJUSTED WITHIN REASONABLE TOLERANCES TO ACCOMMODATE FIELD CONDITIONS.
- 18: CONSTRUCTION TRAFFIC CONTROL SIGNS AND DEVICES NOT IN USE SHALL BE REMOVED FROM THE VIEW OF TRAVELING PUBLIC.
- 19: THE CONTRACTOR SHALL REMOVE ALL DIRT MUD, AND DEBRIS FROM THE TRAVEL LANES DAILY. THIS WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST.

**CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES (CONT.):**

- 20: CONTRACTOR SHALL PROVIDE TO BROOMFIELD TRAFFIC CONTROL PLANS WITHIN 5 DAYS OF THE NOTICE OF INTENT TO AWARD. THE PLANS ARE REQUIRED TO OBTAIN A PUBLIC/PRIVATE IMPROVEMENT PERMIT WHICH WILL BE SUBMITTED BY THE BROOMFIELD CIP PROJECT MANAGER.
- 21: CLEAR ZONE SHALL MEET AASHTO'S "ROADSIDE DESIGN GUIDE", LATEST EDITION REQUIREMENTS. THE FOLLOWING GENERAL CLEAR ZONE, POSTED SPEED, AND FLARE RATES:

ROADWAY	POSTED SPEED	DESIGN SPEED	CLEAR ZONE	FLARE RATE
INDUSTRIAL LANE	30 MPH	30 MPH	10 FT	7:1
MIDWAY BLVD / FLATIRON CROSSING DR	35 MPH	35 MPH	10 FT	7:1

- 22: A SCHEDULE OF TRAFFIC CONTROL DIVICES FOR THIS PROJECT WILL BE PREPARED USING TYPICAL TEMPORARY TRAFFIC CONTROL SIGNING SEQUENCES FROM THE MOST CURRENT VERSIONS OF CDOT M&S PLANS AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE IMPROVEMENTS WILL GENERALLY BE BUILT OUTSIDE OF THE ROADWAY AND EXISTING BIKEWAY TEMPLATE. HOWEVER, SHOULDER CLOSURES ARE ANTICIPATED. TRAFFIC CONTROL ITEMS WILL BE TABULATED AND INCLUDED IN THE SUMMARY OF APPROXIMATE QUANTITIES. DETAILED CONSTRUCTION TRAFFIC CONTROL PLANS WILL NOT BE DEVELOPED FOR THE PROJECT.

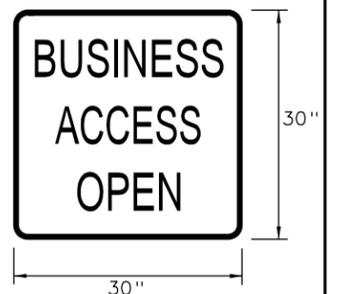
**CONSTRUCTION TRAFFIC CONTROL SIGNING (FOR INFORMATION ONLY):**

SIGN CODE	SIGN LEGEND	SIGN PANEL SIZE (INCHES)	PROJECT SIGNS	PAY QTY	SIGN PANEL				BACK-GROUND COLOR
					CLASS A (EACH)	CLASS B (EACH)	CLASS C (EACH)	SPECIAL (SQ FT)	
W20-1	ROAD WORK AHEAD	36 X 36	5	5	5				ORANGE
R52-6a	BEGIN FINES DOUBLE IN WORK ZONE	36 X 48	5	5		5			WHITE
W20-4	ONE LANE ROAD AHEAD	36 X 36	2	2	2				ORANGE
W21-5bR	RIGHT SHOULDER CLOSED AHEAD	36 X 36	2	2	2				ORANGE
W21-5bL	LEFT SHOULDER CLOSED AHEAD	36 X 36	1	1	1				ORANGE
G20-5aP	WORK ZONE	24 X 18	5	5	5				ORANGE
R2-1(30)	SPEED LIMIT (30)	24 X 30	3	3	3				WHITE
W20-7	FLAGGER	36 X 36	3	3	3				ORANGE
W21-5aR	RIGHT SHOULDER CLOSED	36 X 36	2	2	2				ORANGE
W21-5aL	LEFT SHOULDER CLOSED	36 X 36	1	1	1				WHITE
R52-6b	END FINES DOUBLE IN WORK ZONE	36 X 48	5	5		5			WHITE
G20-2	END ROAD WORK	36 X 18	5	5	5				ORANGE
R2-1 (35)	SPEED LIMIT (35)	24 X 30	2	2	2				WHITE
SPECIAL	BUSINESS ACCESS OPEN	30 X 30	4	4				25.00	ORANGE
R9-9	SIDEWALK CLOSED	24 X 12	2	2	2				WHITE
			<b>47</b>	<b>47</b>	<b>33</b>	<b>10</b>	<b>0</b>	<b>25.00</b>	

**CONSTRUCTION TRAFFIC CONTROL SUMMARY:**

ITEM NUMBER	ITEM DESCRIPTION	UNIT	PROJECT TOTAL
621-00450	DETOUR PAVEMENT	SY	50
630-00000	FLAGGING	HOUR	1280
630-00007	TRAFFIC CONTROL INSPECTION	DAY	50
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	120
630-80001	FLASHING BEACON (PORTABLE)	EACH	6
630-80335	BARRICADE (TYPE 3 M-A) (TEMPORARY)	EACH	6
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	33
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	10
630-80344	CONSTRUCTION TRAFFIC SIGN (SPECIAL)	SF	25
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	3
630-80360	DRUM CHANNELIZING DEVICE	EACH	235
630-80380	TRAFFIC CONE	EACH	100

SIGN (SPECIAL):



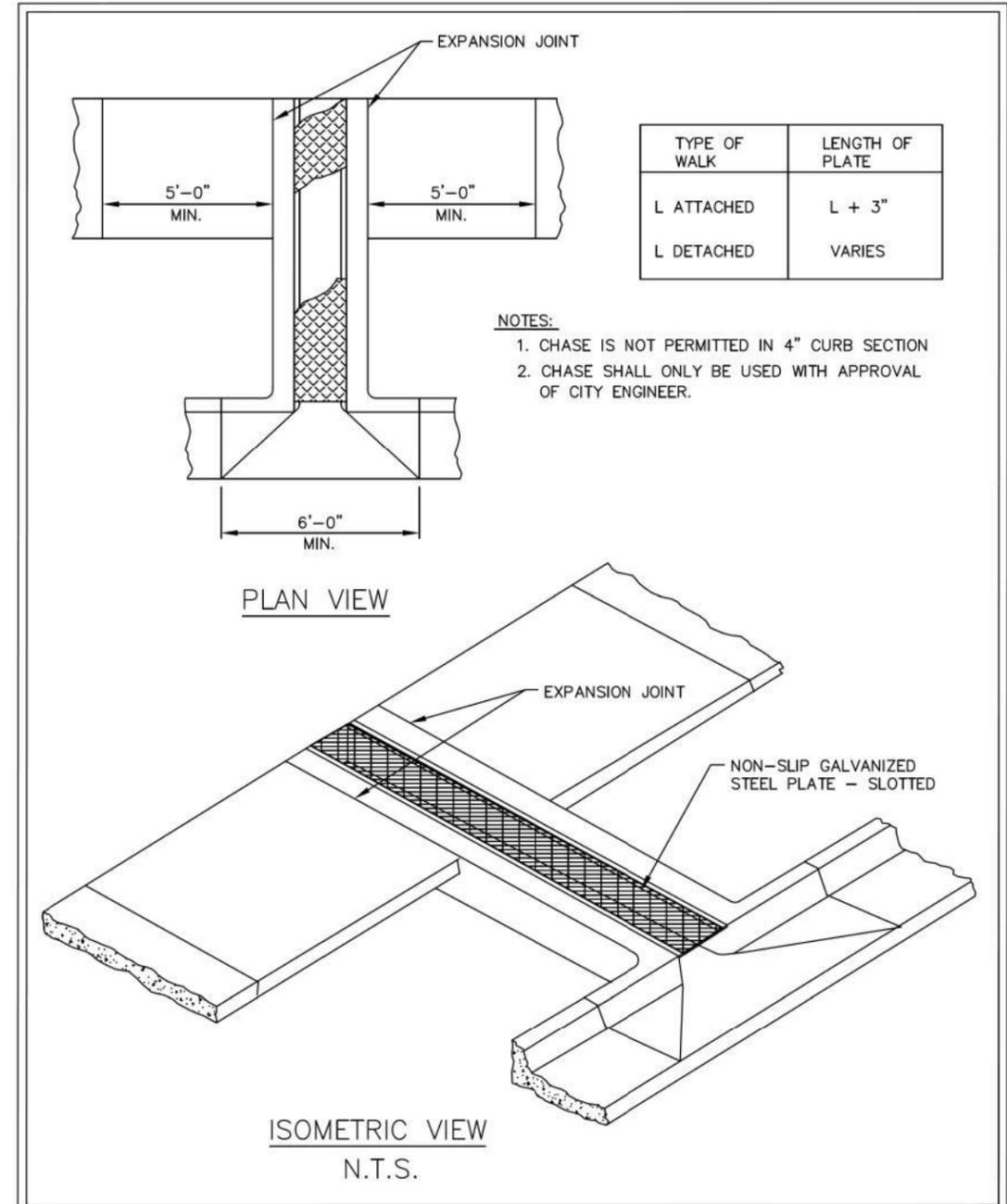
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	Horiz. Scale:      Vert. Scale: As Noted						Revised:	Designer: J. MCMACKIN	Checker: M. ROMERO		23593
	Unit Information						Void:	Sheet Subset:      Subset Sheets: 01 of 01			Sheet Number <b>146</b>
	Stanley Consultants inc. 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806				CITY ENGINEER (OR DESIGNEE) _____ DATE _____						

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Davis Color  
Sunset Rose

OR  
APPROVED  
EQUAL



TYPE OF WALK	LENGTH OF PLATE
L ATTACHED	L + 3"
L DETACHED	VARIES

- NOTES:
- CHASE IS NOT PERMITTED IN 4" CURB SECTION
  - CHASE SHALL ONLY BE USED WITH APPROVAL OF CITY ENGINEER.



City and County of Broomfield  
ENGINEERING DEPARTMENT

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 DATE: 2020

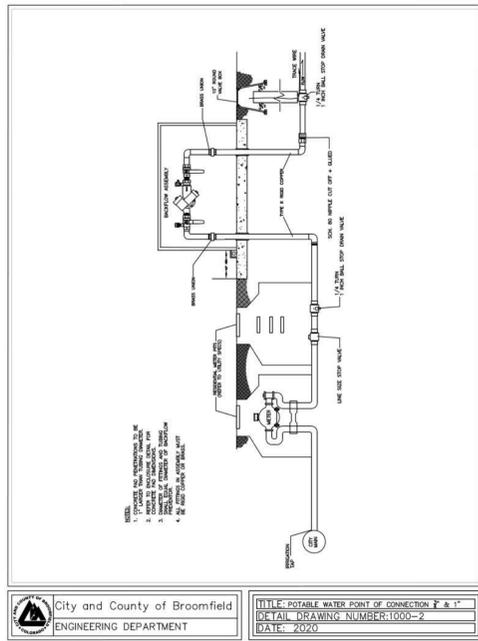


City and County of Broomfield  
ENGINEERING DEPARTMENT

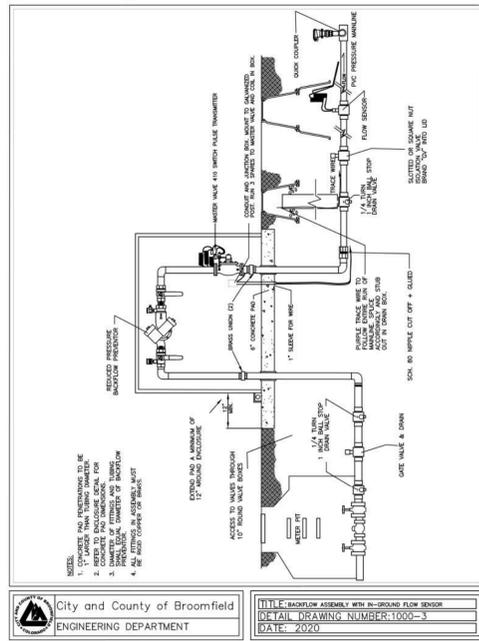
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NOTE:  
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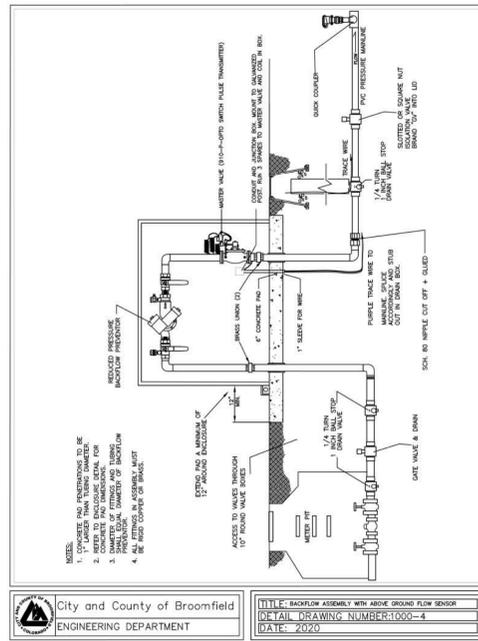
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	Horiz. Scale: _____ Vert. Scale: As Noted	Date: _____ Comments: _____ Init.: _____	No Revisions:	STANDARD DETAILS			STU M145-013			
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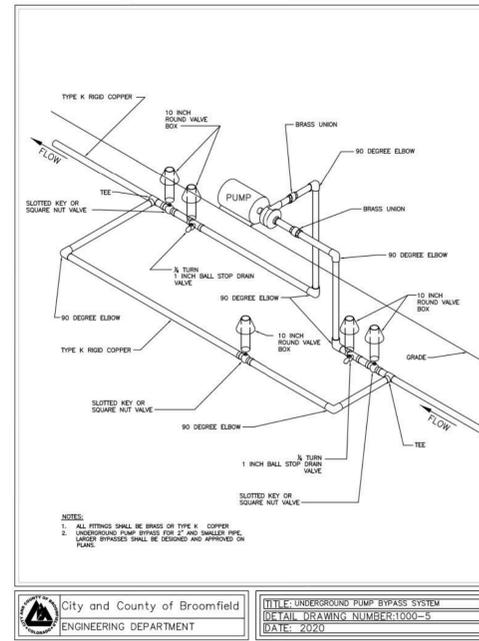
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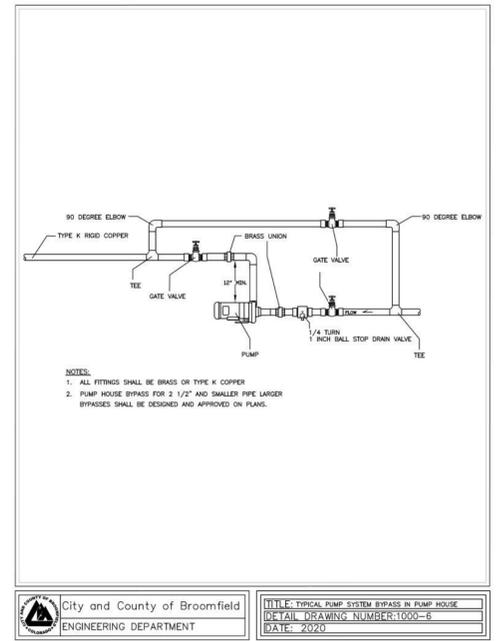
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DATE: 2020



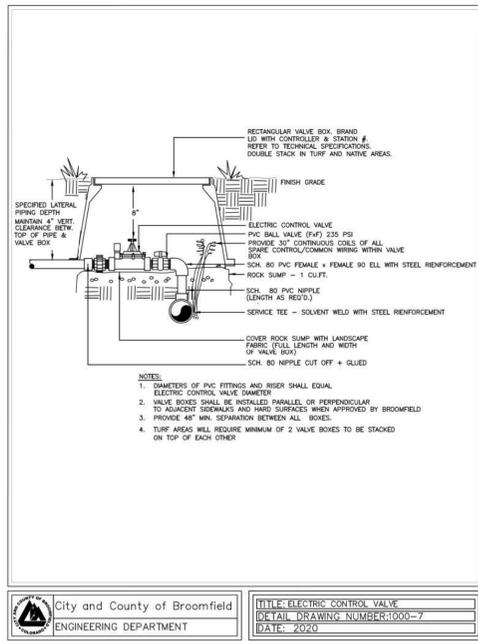
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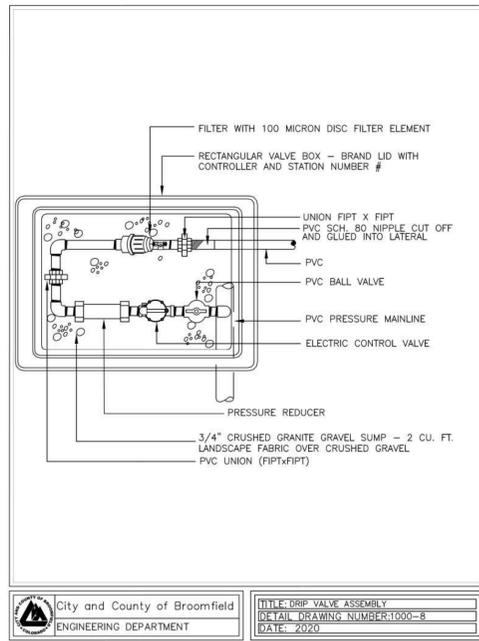
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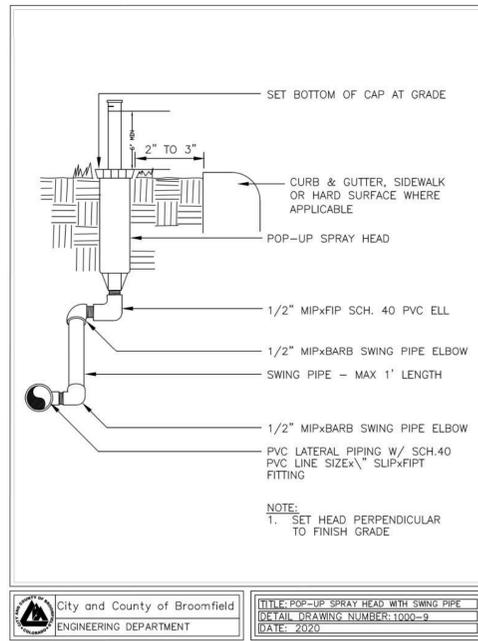
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DATE: 2020



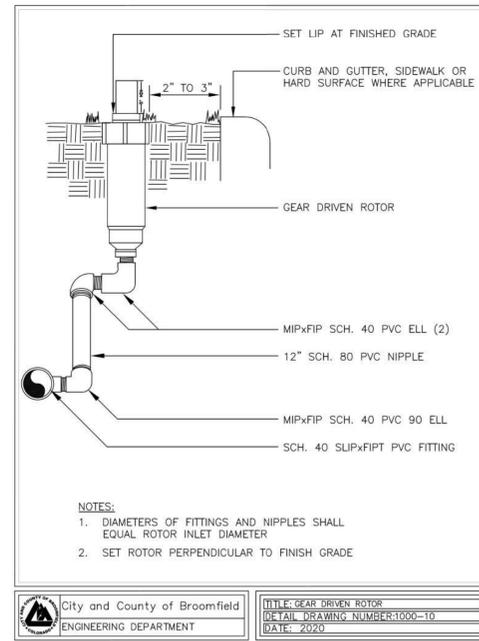
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DATE: 2020



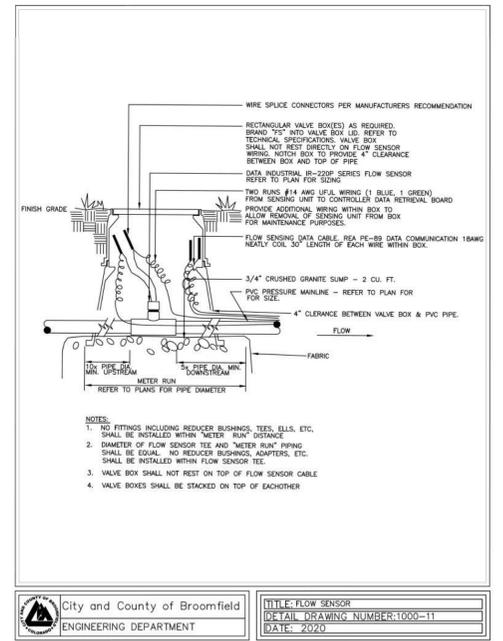
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TITLE: DRIP VALVE ASSEMBLY  
DETAIL DRAWING NUMBER:1000-8  
DATE: 2020



City and County of Broomfield  
ENGINEERING DEPARTMENT  
TITLE: POP-UP SPRAY HEAD WITH SWING PIPE  
DETAIL DRAWING NUMBER:1000-9  
DATE: 2020



City and County of Broomfield  
ENGINEERING DEPARTMENT  
TITLE: GEAR DRIVEN ROTOR  
DETAIL DRAWING NUMBER:1000-10  
DATE: 2020



City and County of Broomfield  
ENGINEERING DEPARTMENT  
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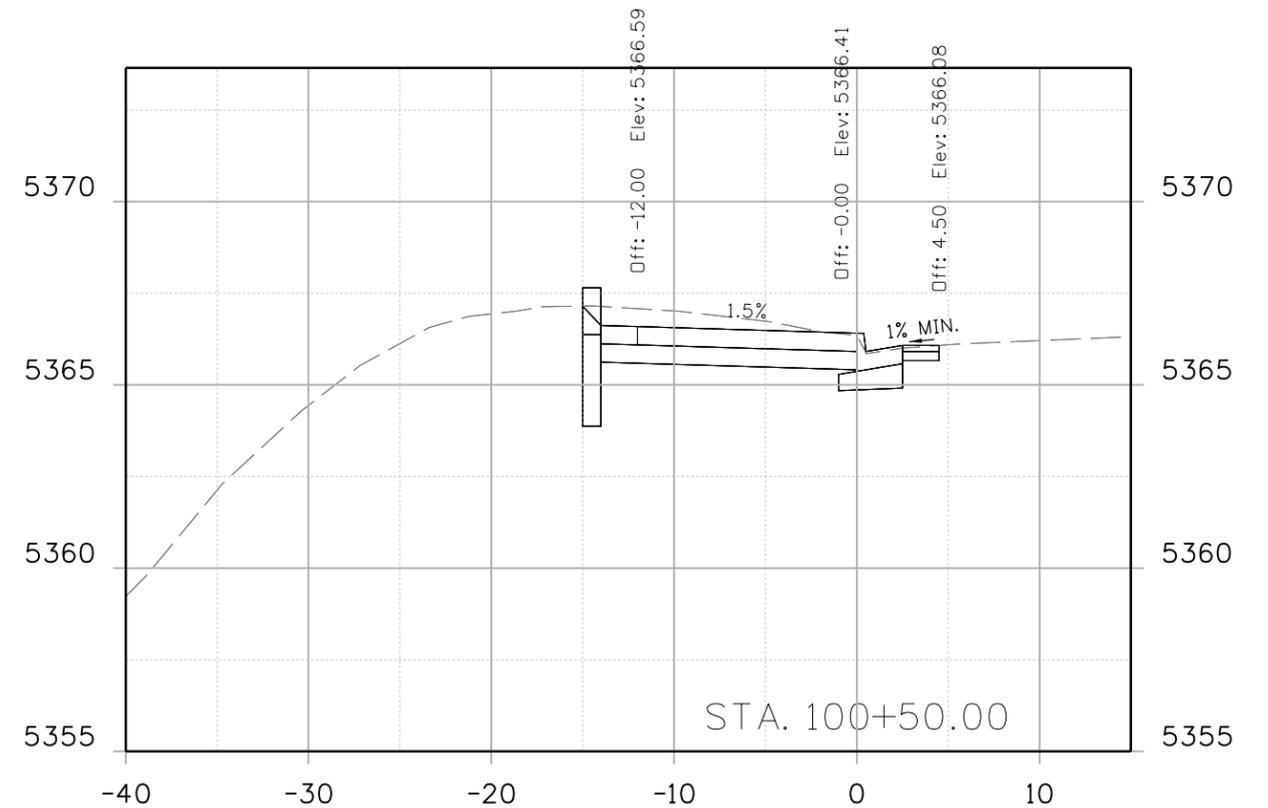
NOTE:  
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	Unit Information	Horiz. Scale:	Vert. Scale: As Noted			Revised:	Designer: C. ATWATER	Checker:	23593
	 8000 South Chester St. Suite 400 Centennial, CO 80112 Phone: 303-799-6806					Void:	Detailer: C. ATWATER		
							Sheet Subset: DETAILS	Subset Sheets: 02 of 03	Sheet Number



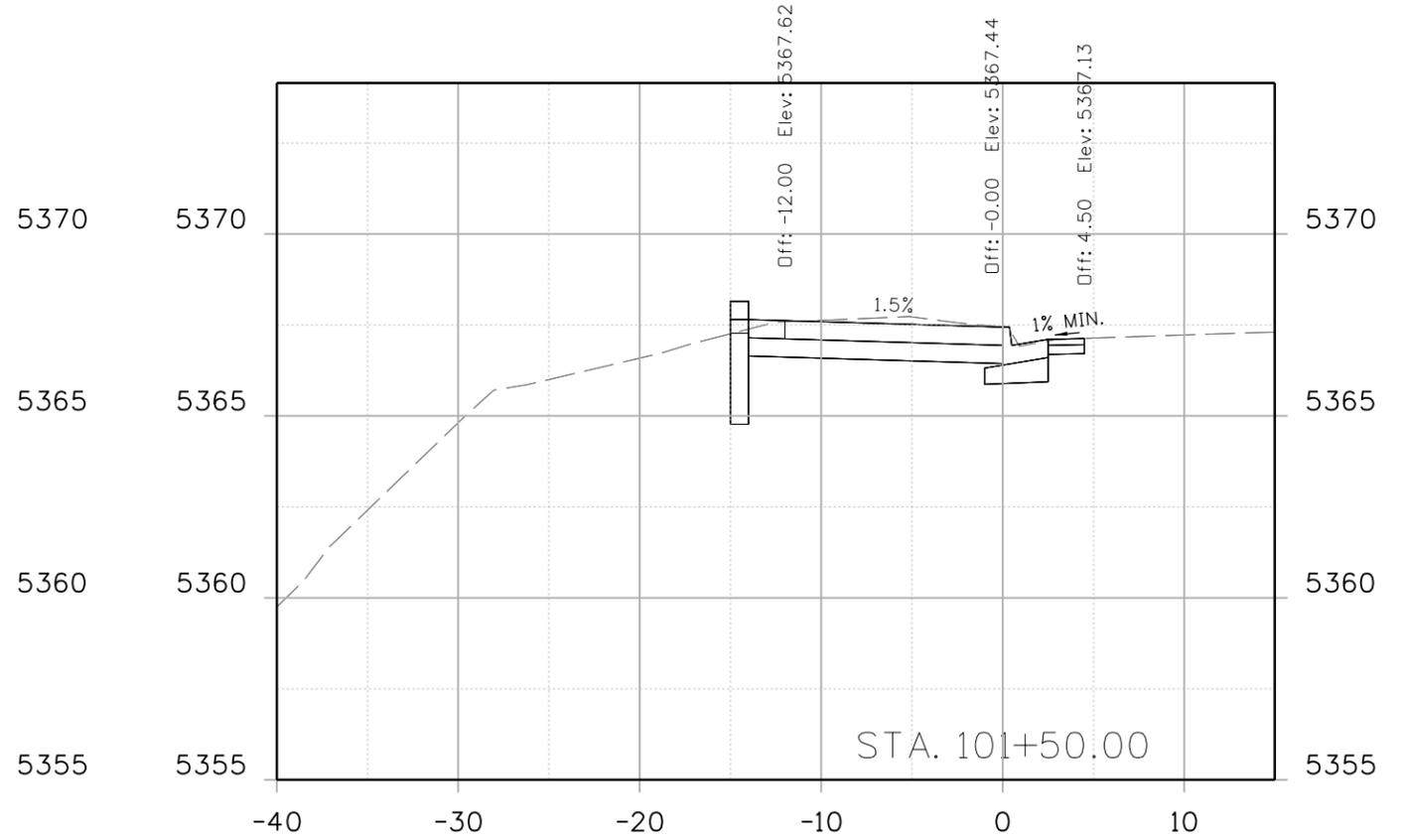
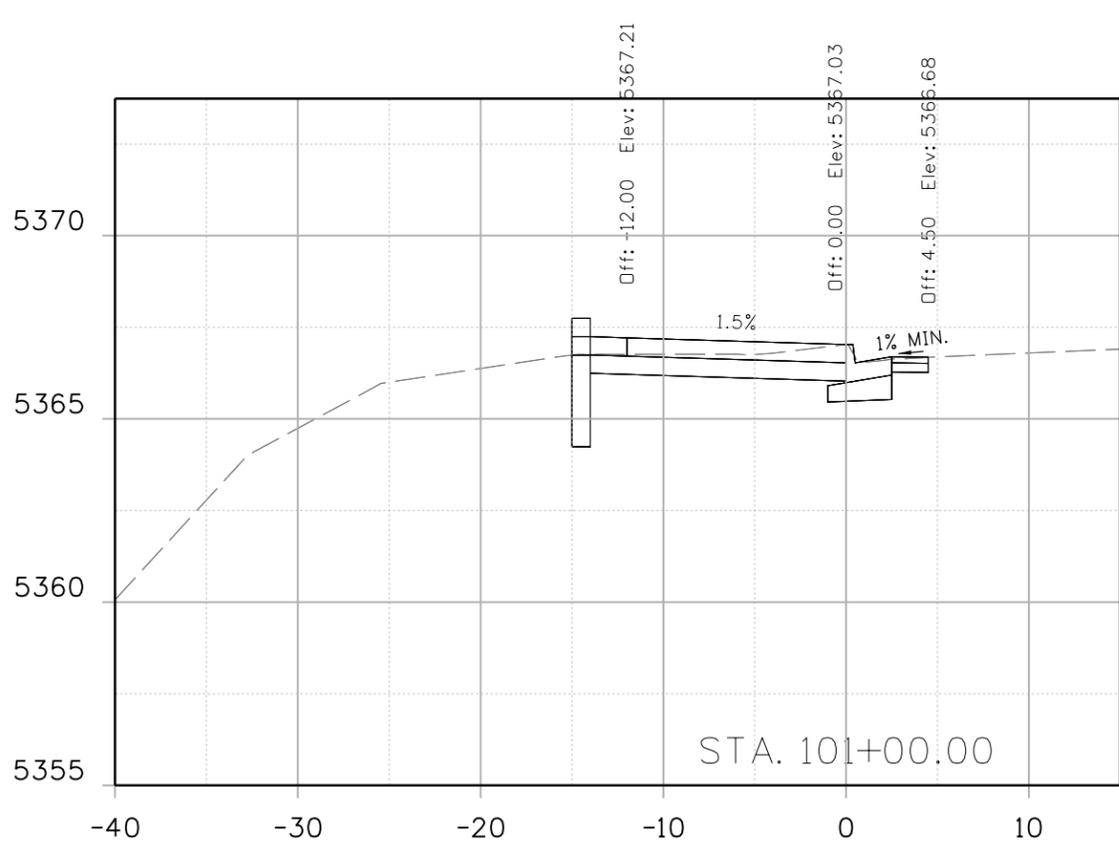
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	Unit Information					Void:		Detailer: Z. CRIMMINS		Sheet Number <b>150</b>	
 <p>8000 South Chester Street Suite 500 Centennial, CO 80112 Phone: 303-799-6806</p>	CITY ENGINEER (OR DESIGNEE) _____ DATE _____		Sheet Subset: XSEC		Subset Sheets: 01 of 36						

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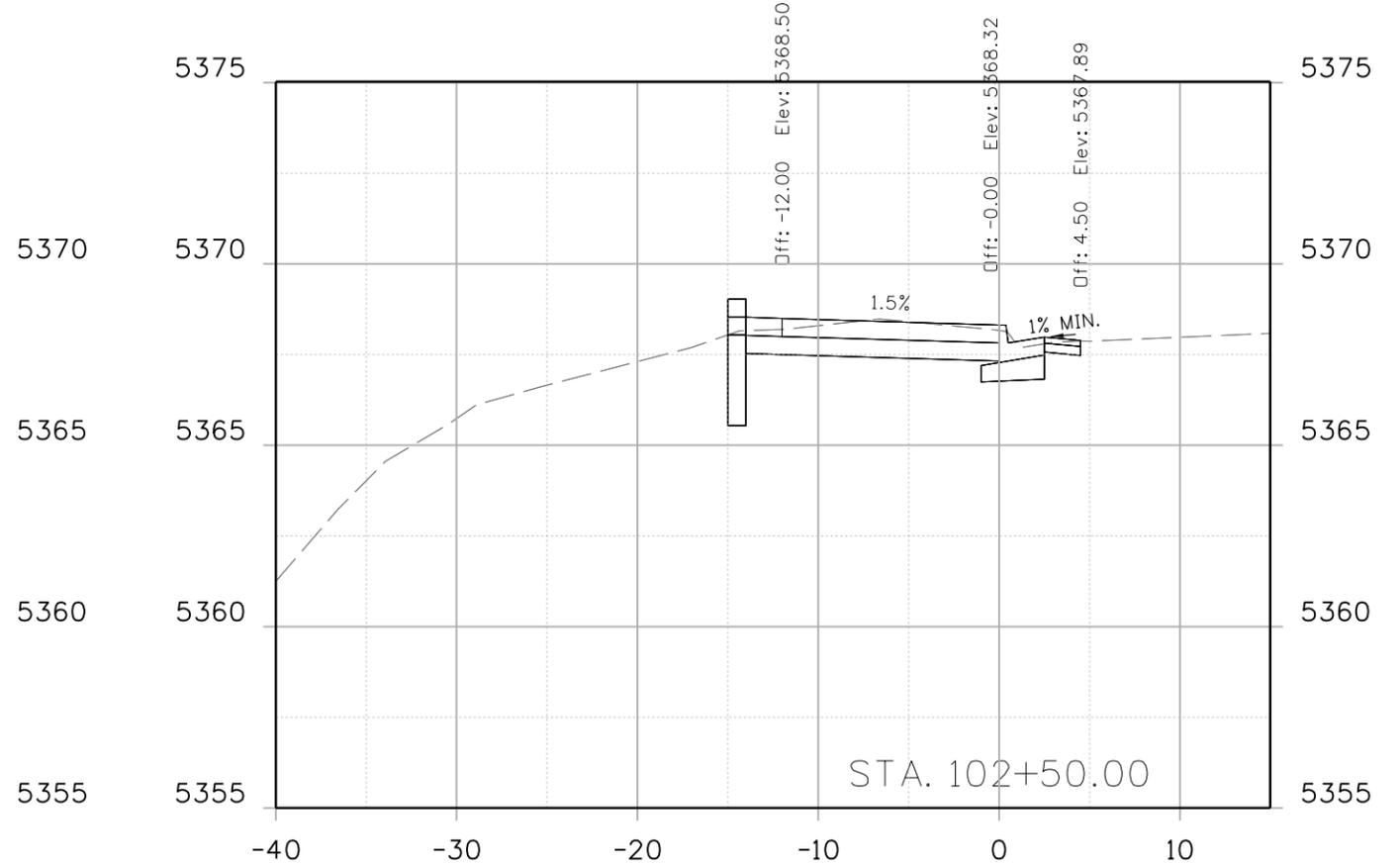
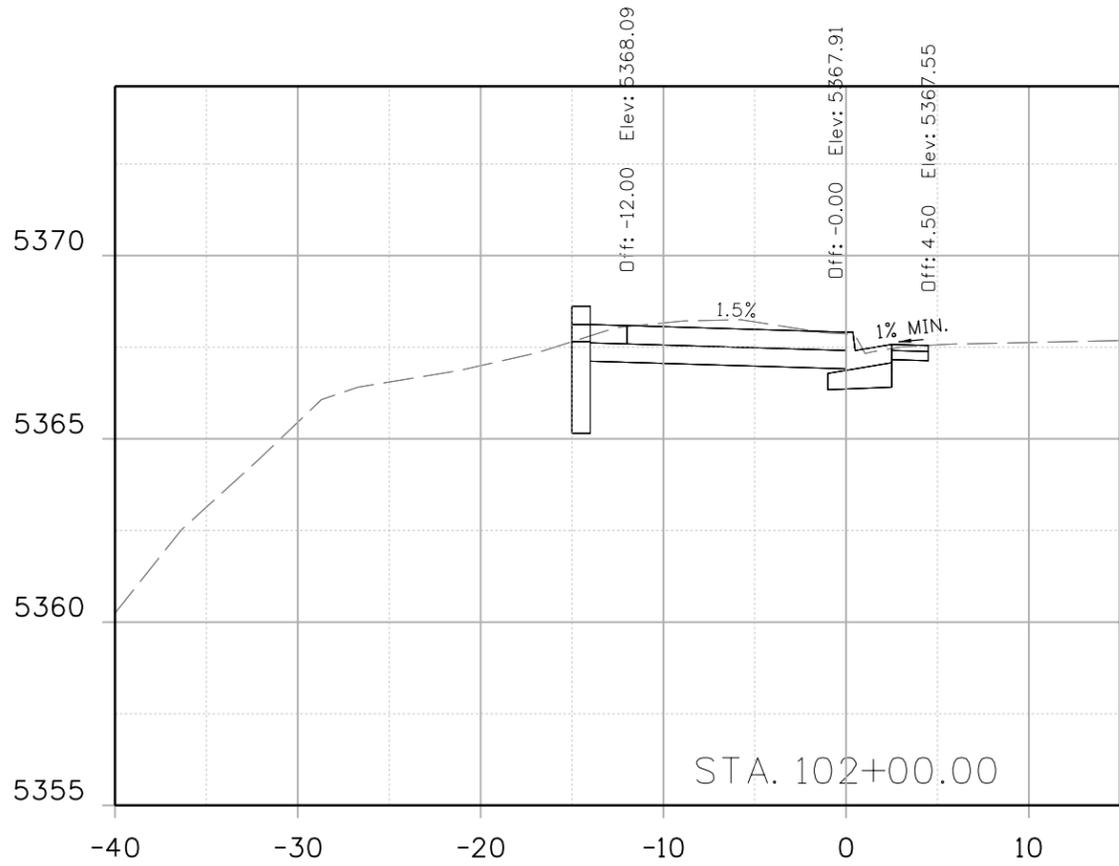
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INDUSTRIAL LANE BIKEWAY PHASE 2 CROSS SECTION			
Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	02 of 36

Project No./Code	STU M145-013
	23593
Sheet Number	151

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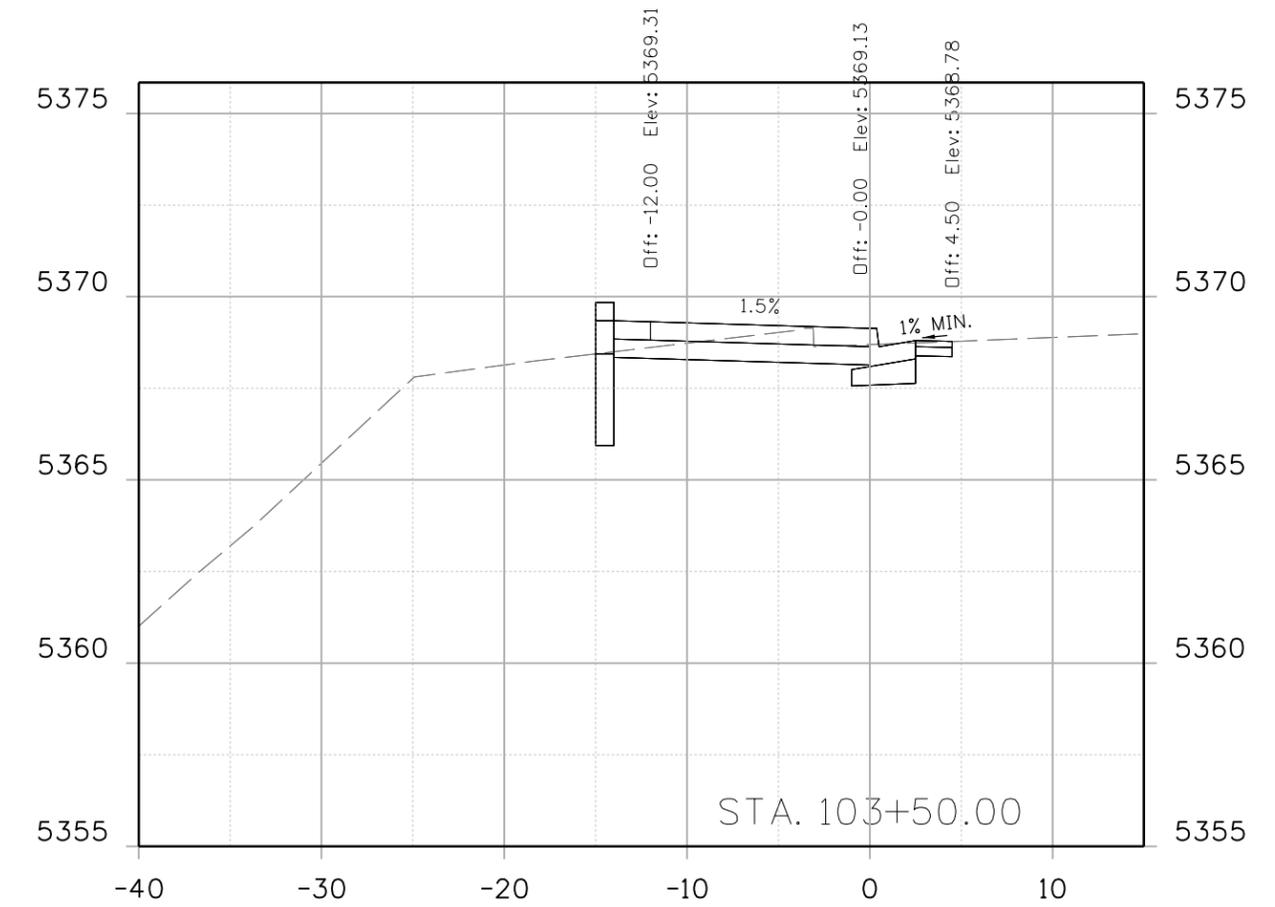
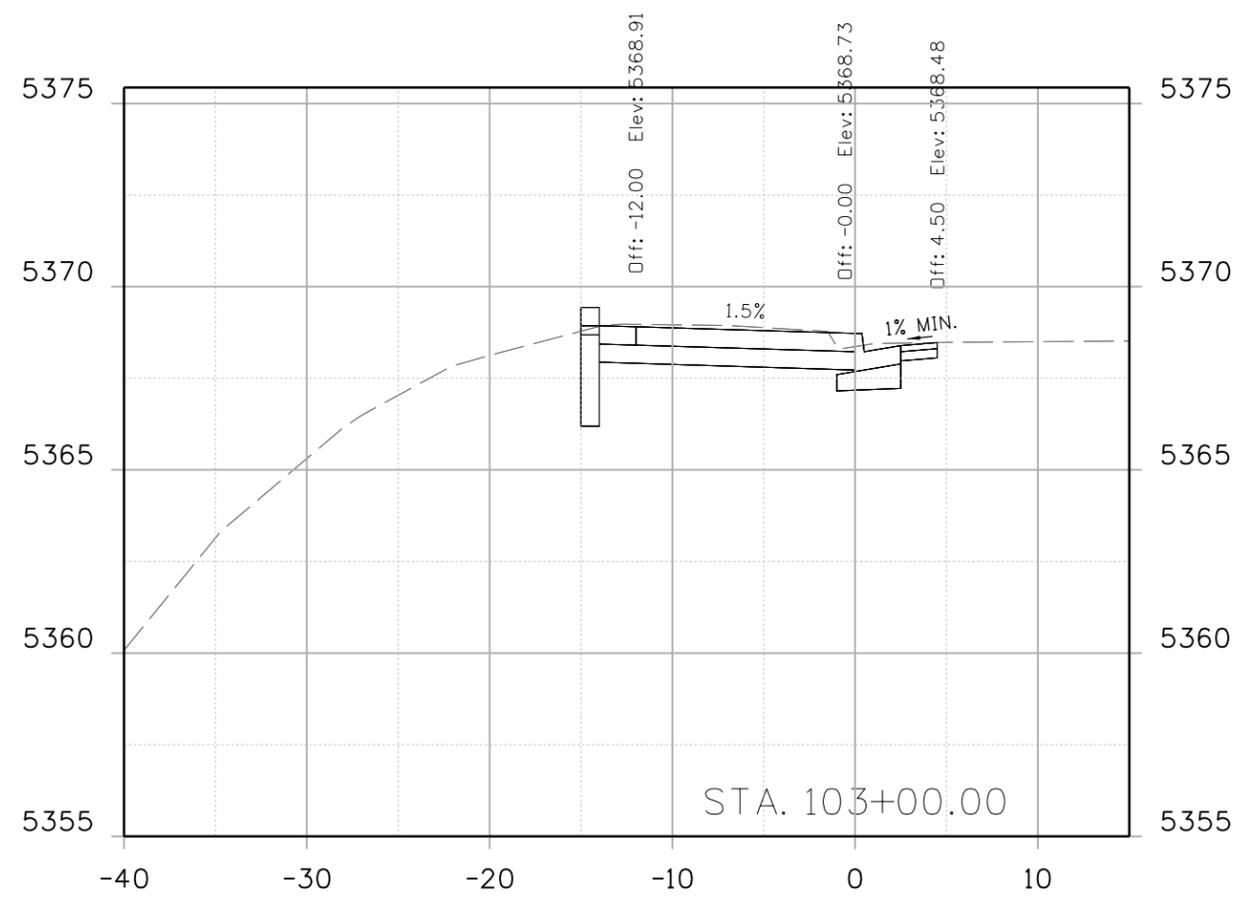
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Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
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Project No./Code	STU M145-013
	23593
Sheet Number	152

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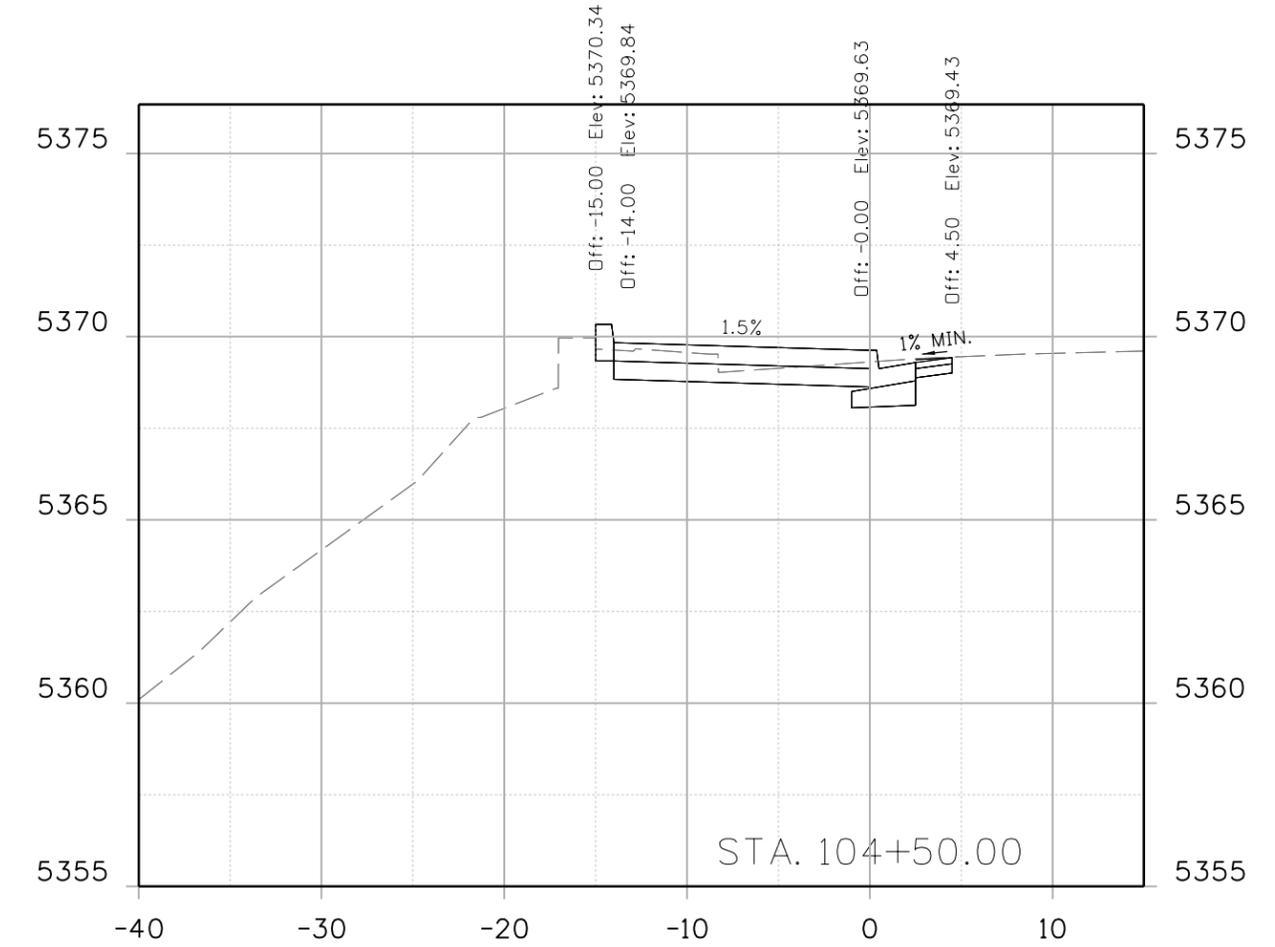
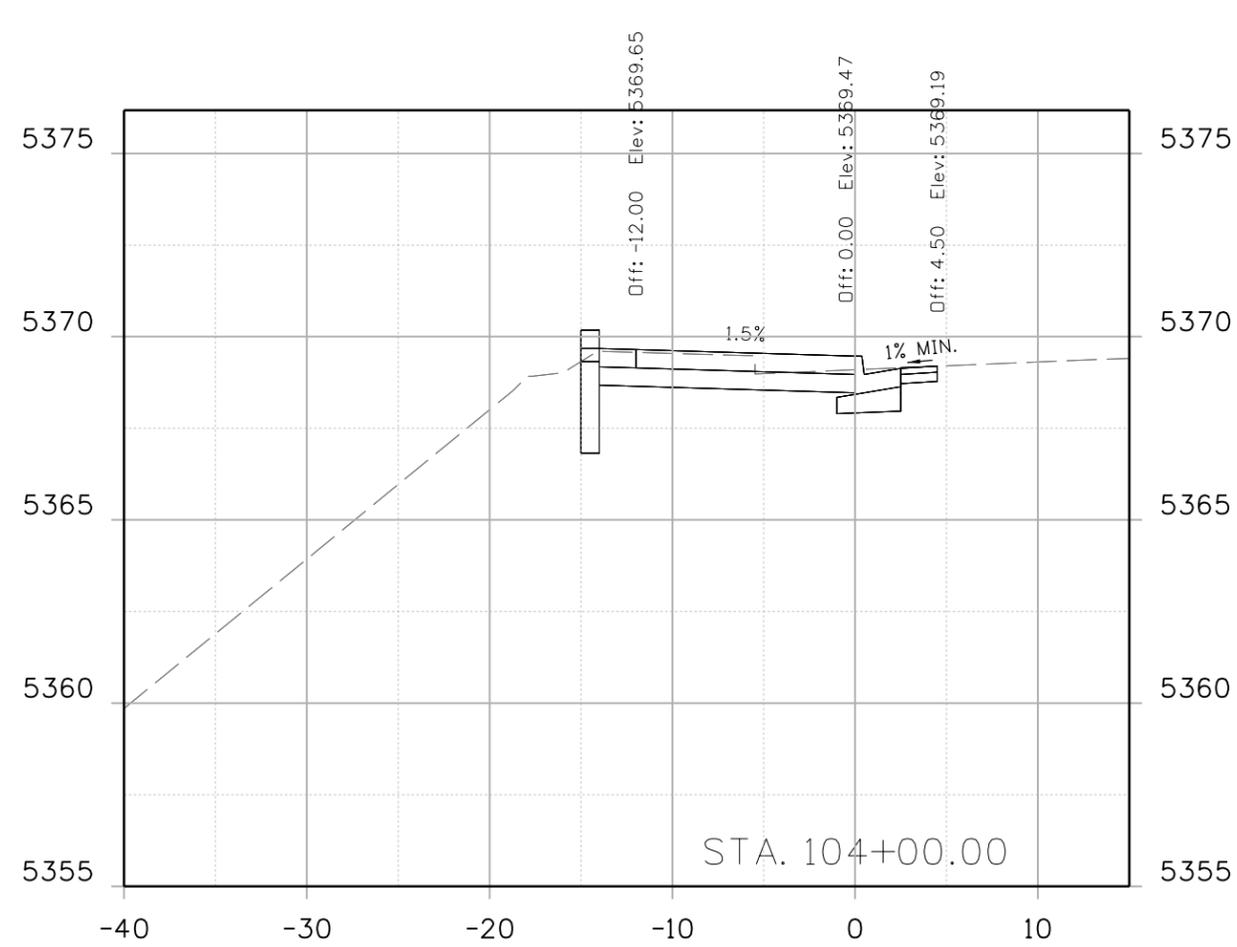
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No Revisions:	CROSS SECTION
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Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	04 of 36

Project No./Code	STU M145-013
	23593
Sheet Number	153

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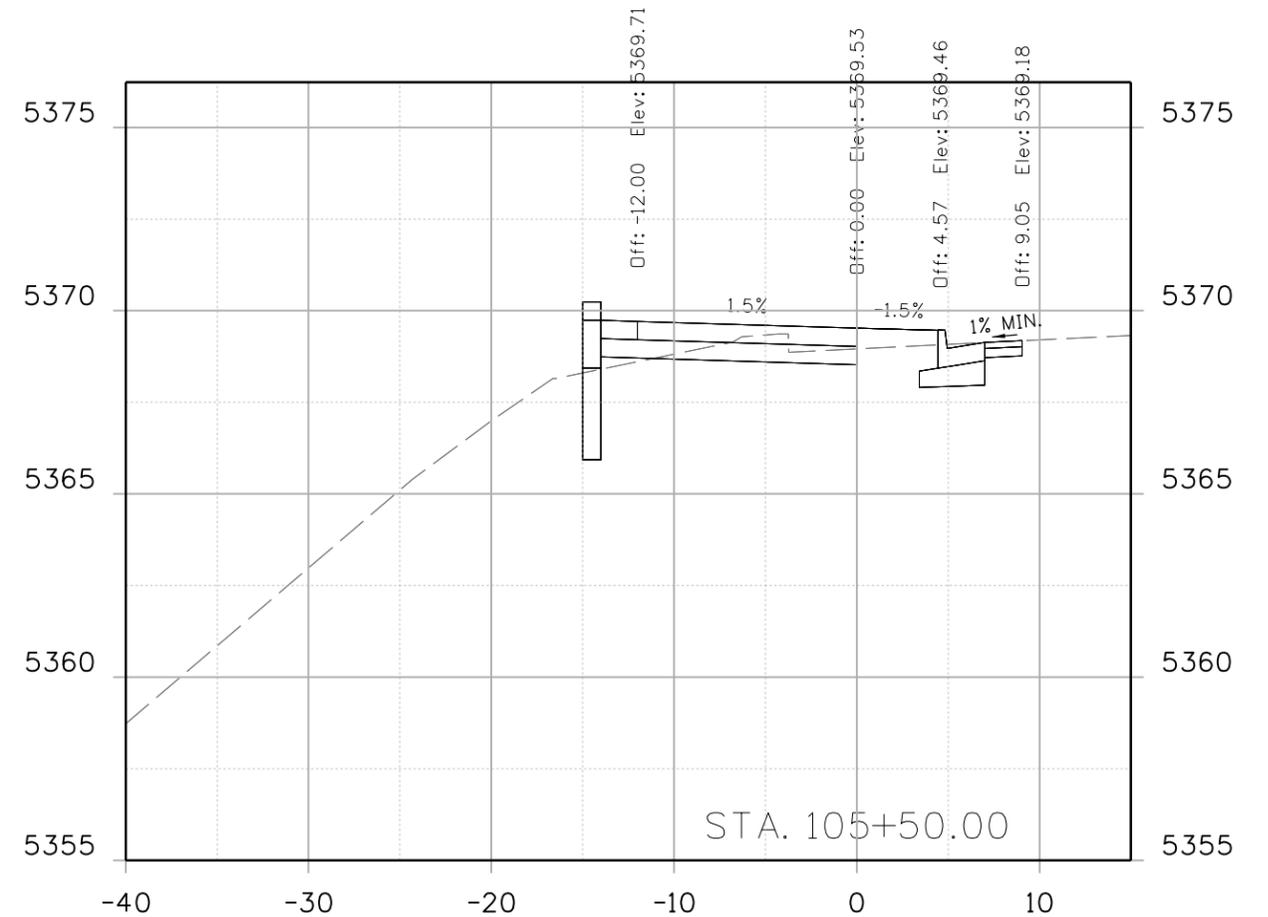
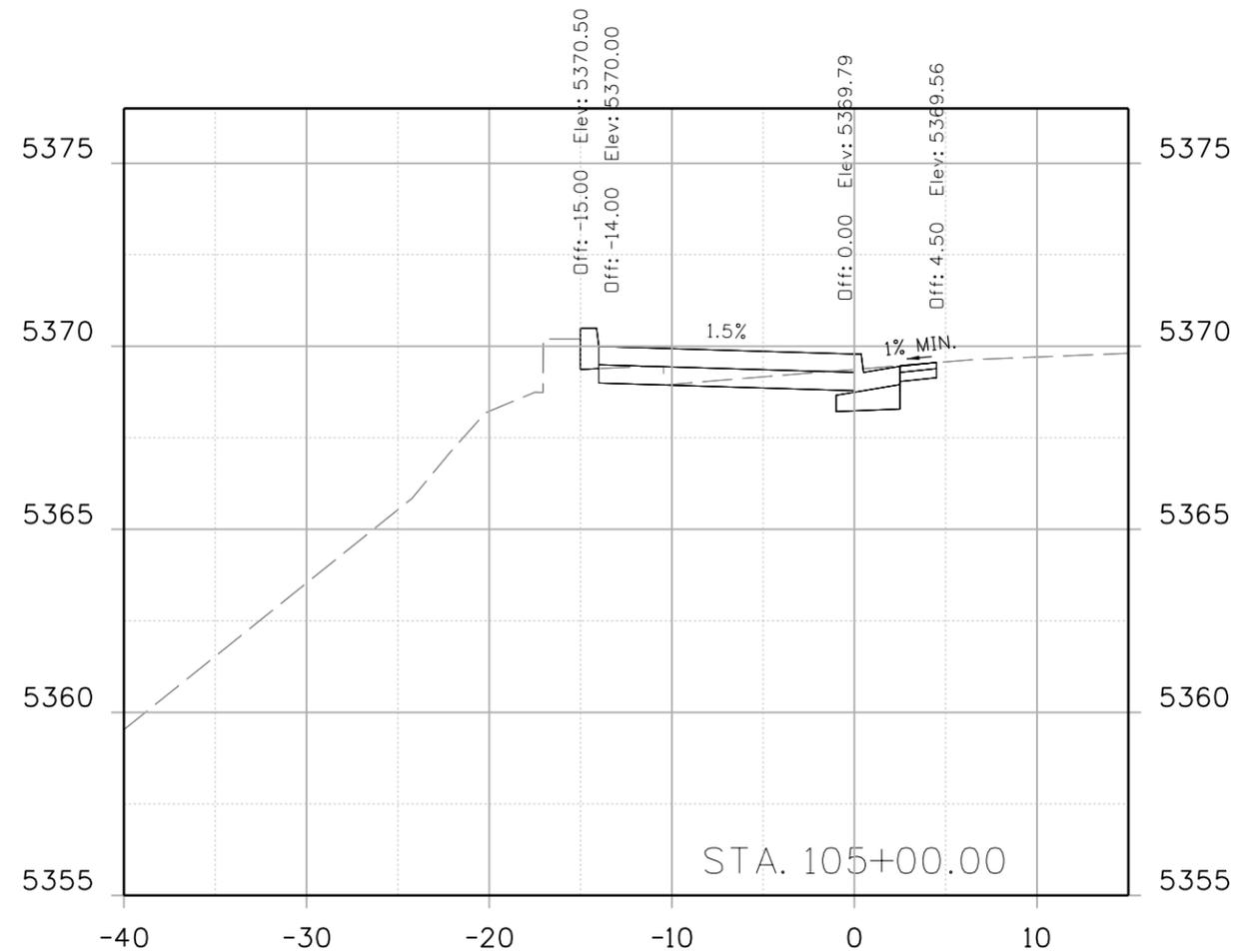
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Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	05 of 36

Project No./Code	STU M145-013
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Sheet Number	154

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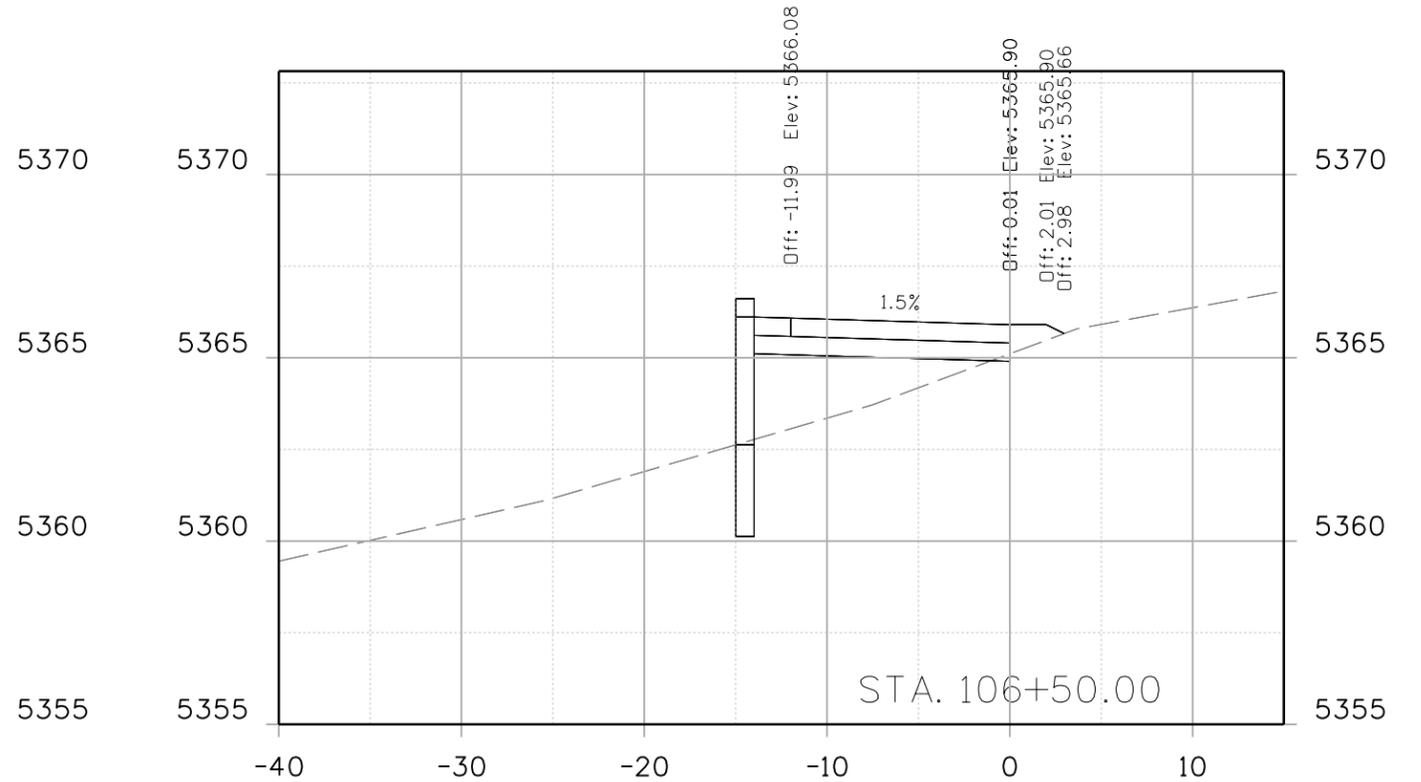
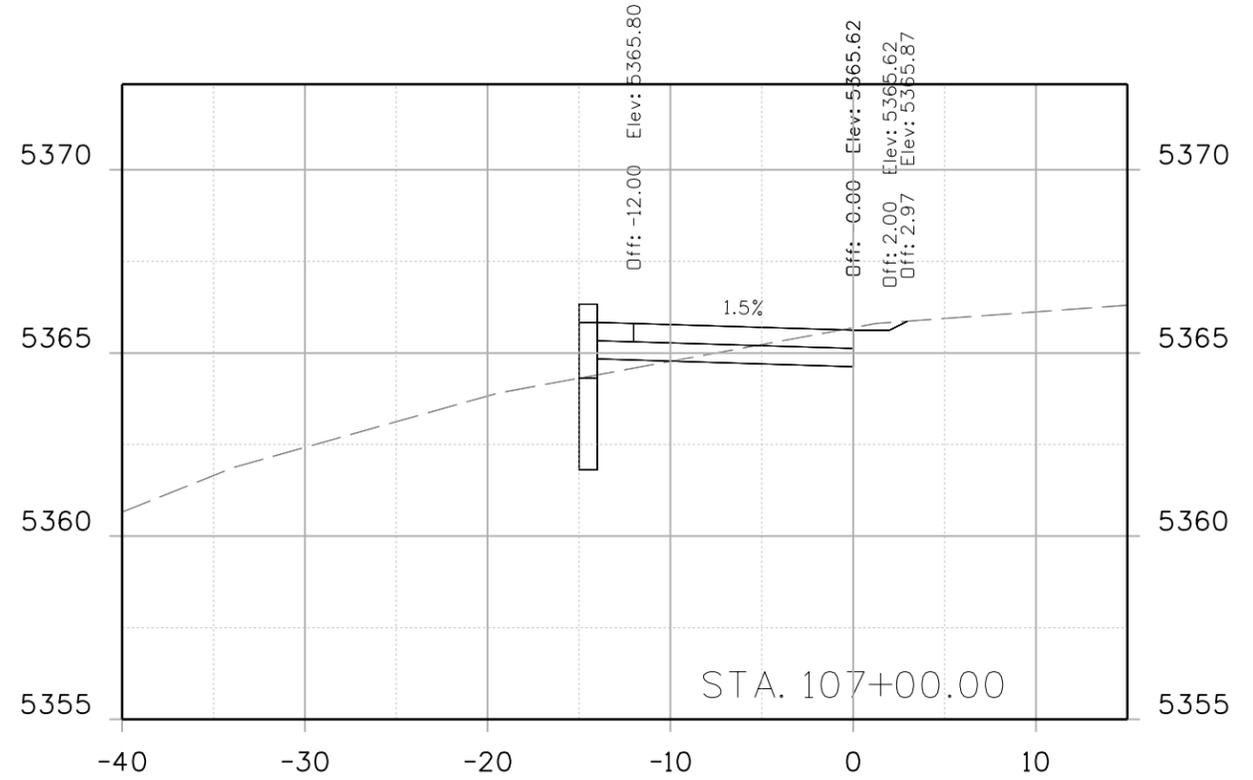
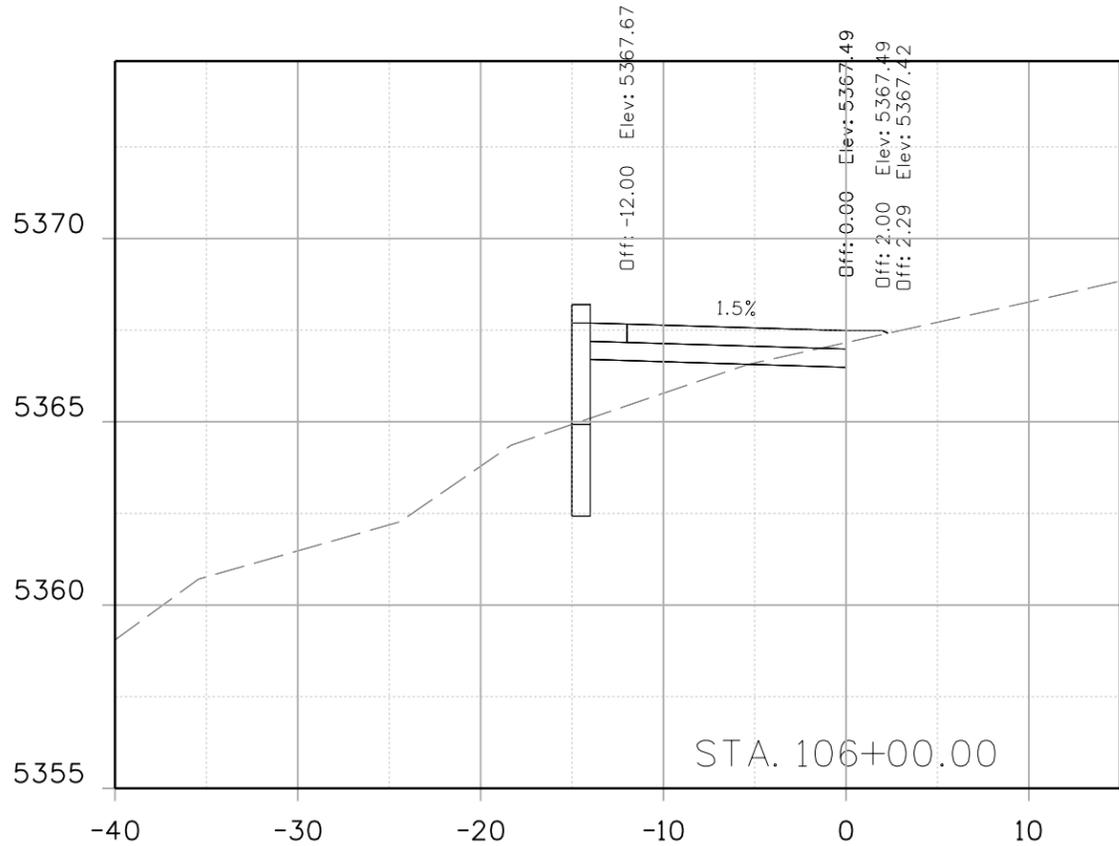
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As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2
No Revisions:	CROSS SECTION
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Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	06 of 36

Project No./Code	STU M145-013
	23593
Sheet Number	155

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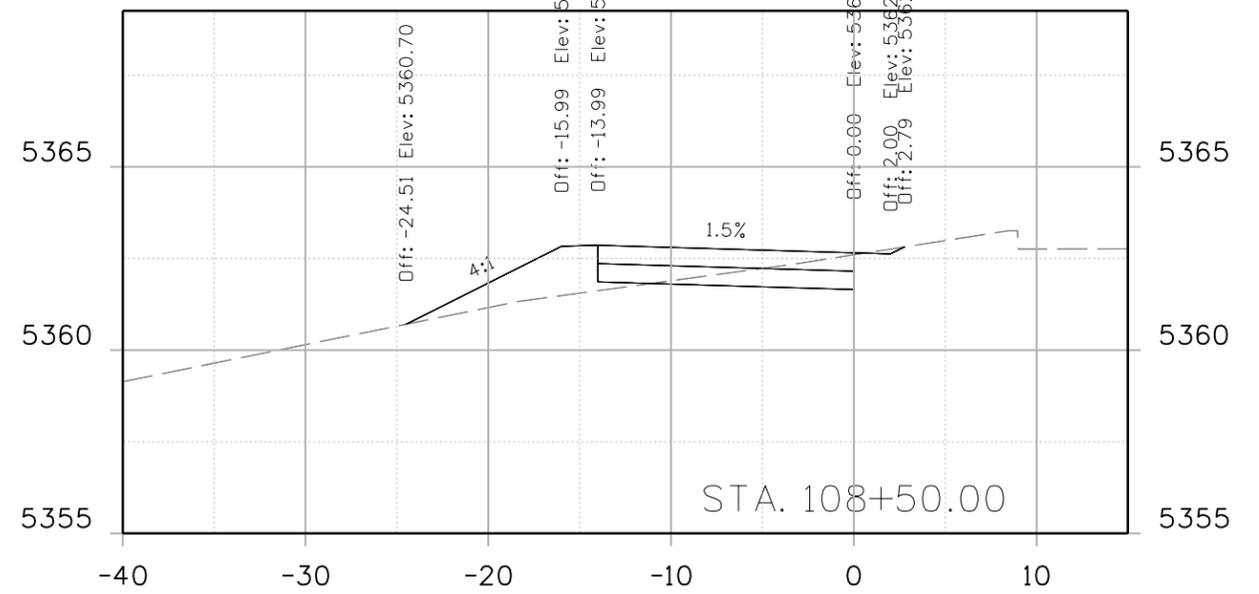
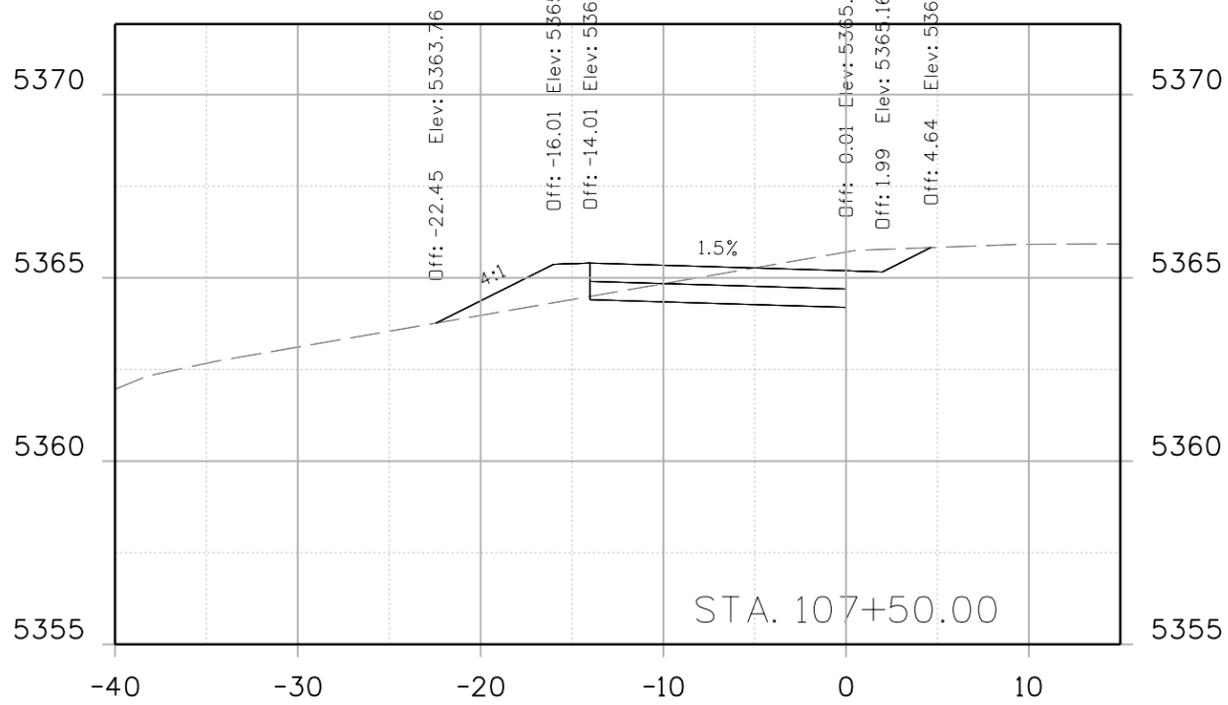
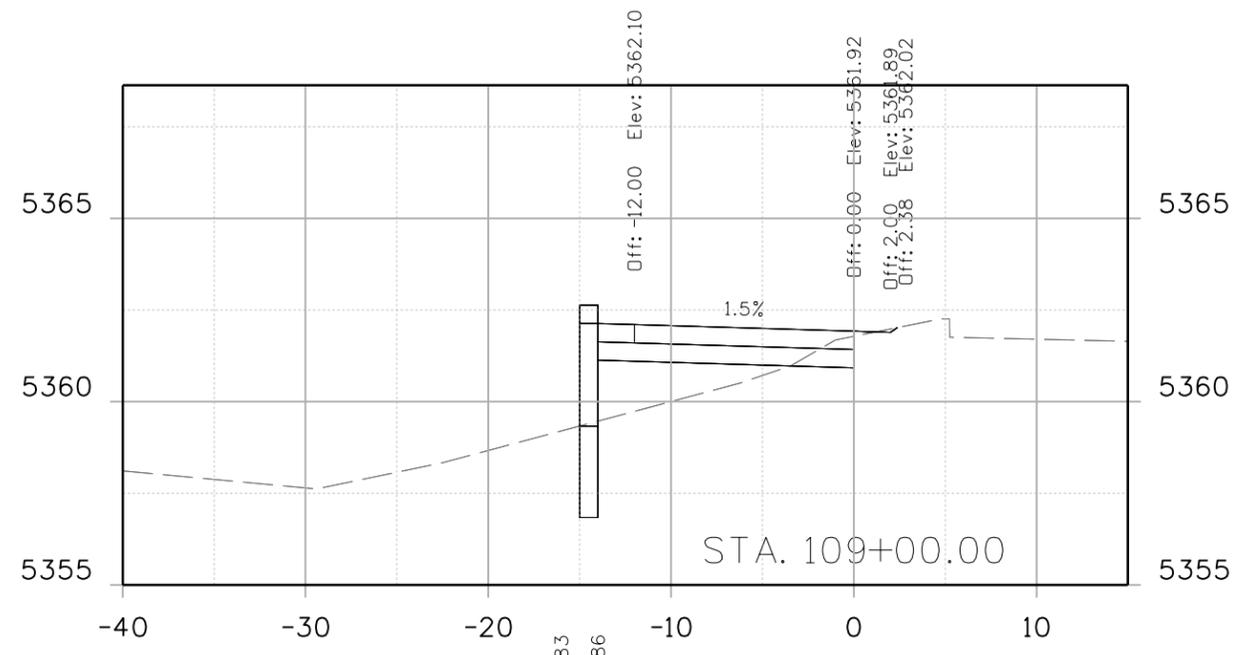
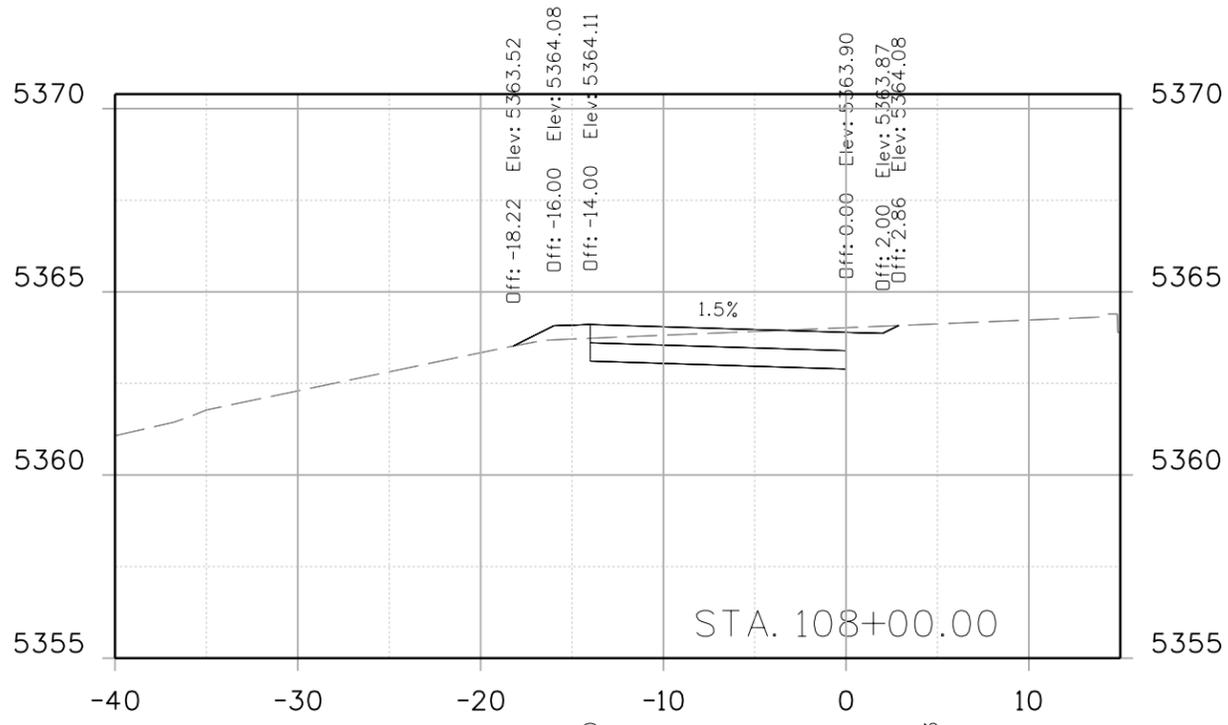
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INDUSTRIAL LANE BIKEWAY PHASE 2  
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Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	07 of 36

Project No./Code  
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 Sheet Number **156**

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**INDUSTRIAL LANE BIKEWAY PHASE 2**  
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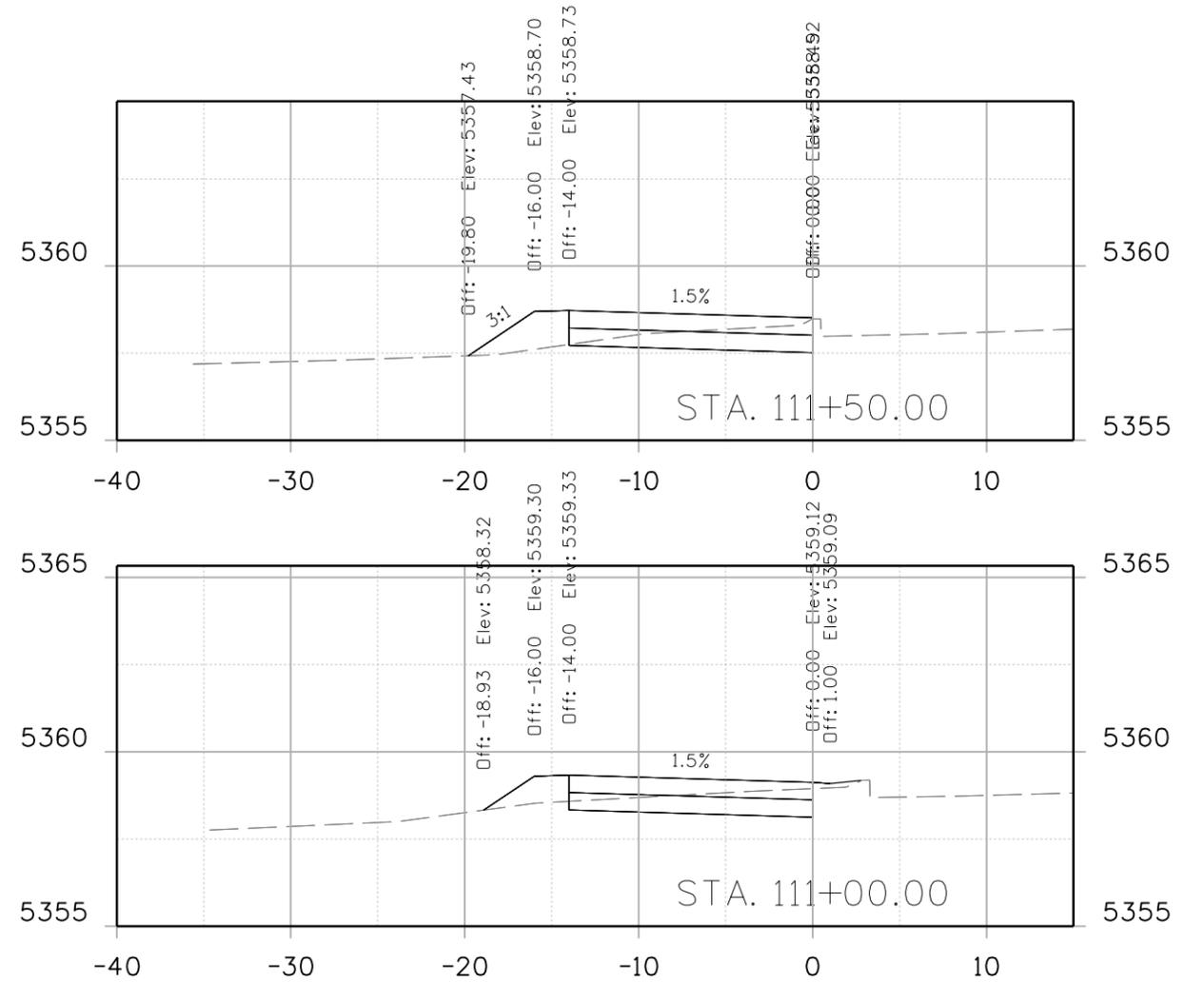
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 Checker:  
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Project No./Code  
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 Sheet Number **157**

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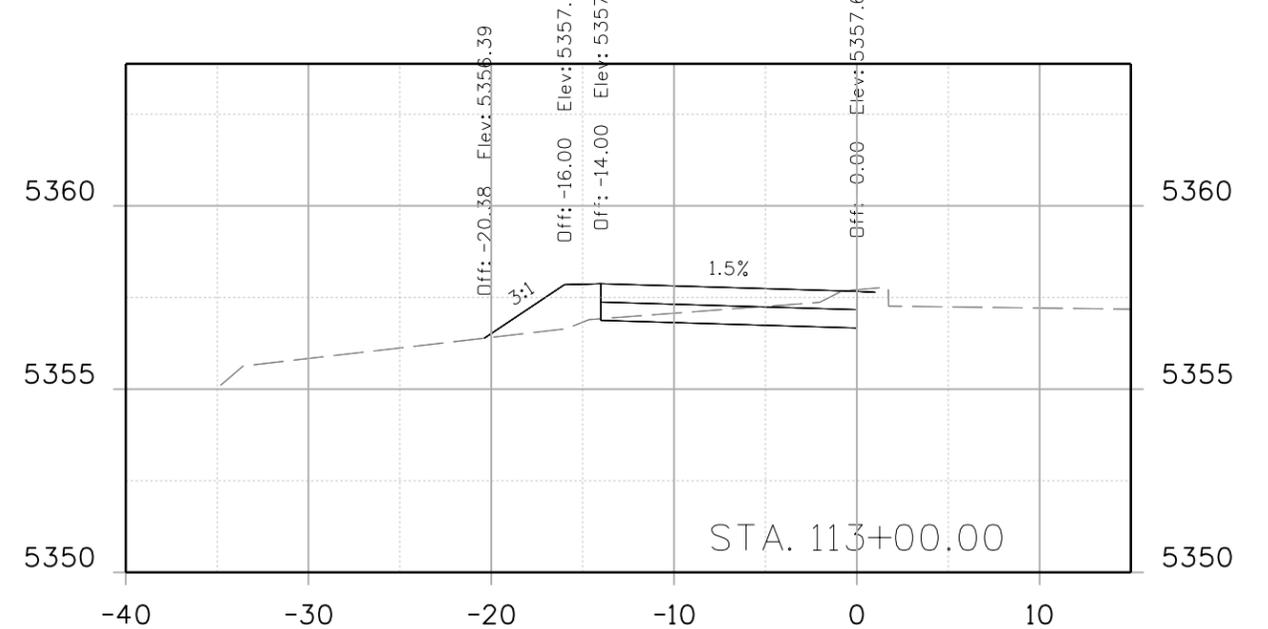
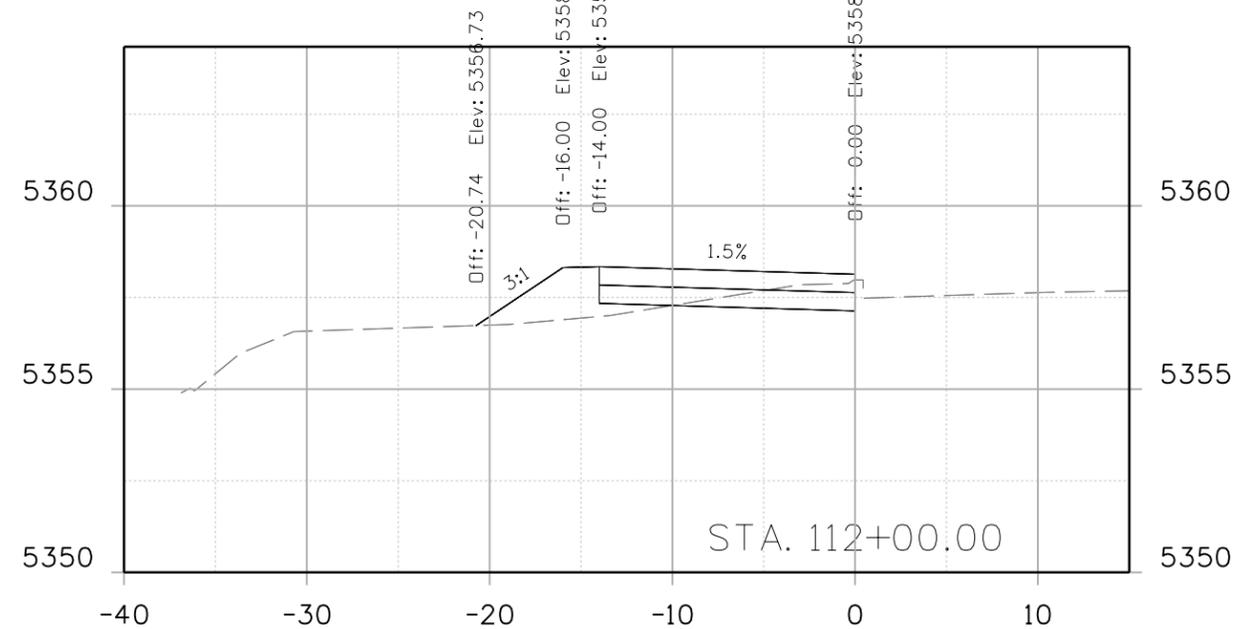
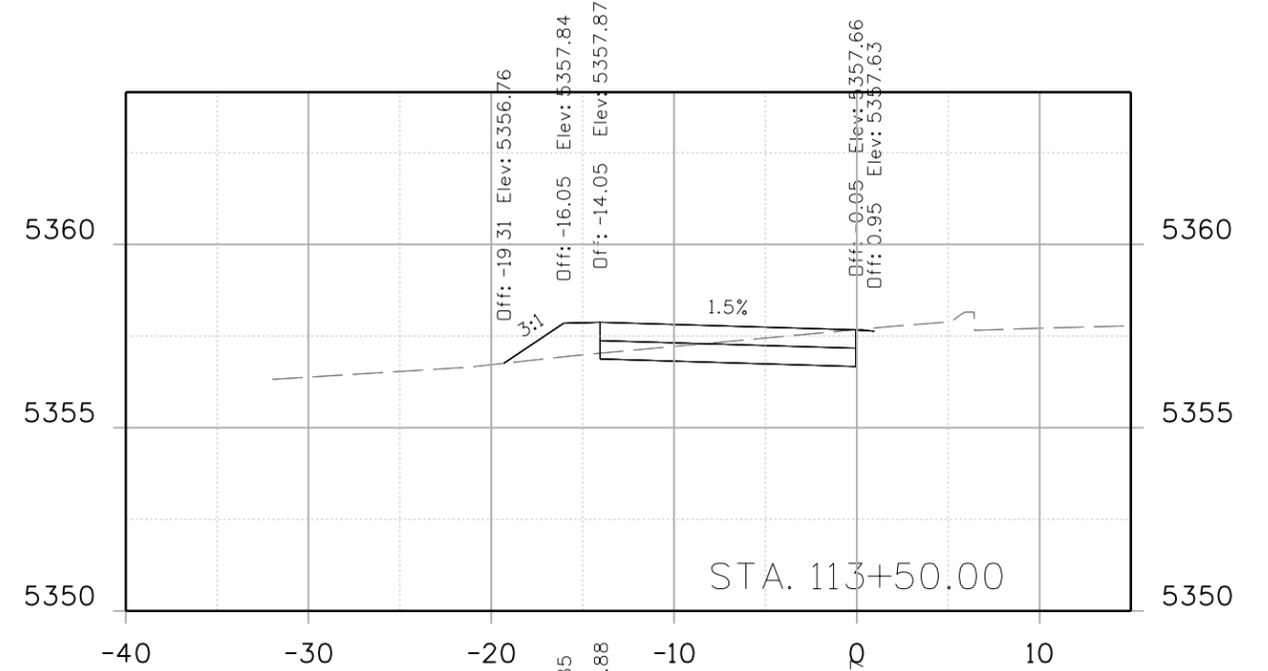
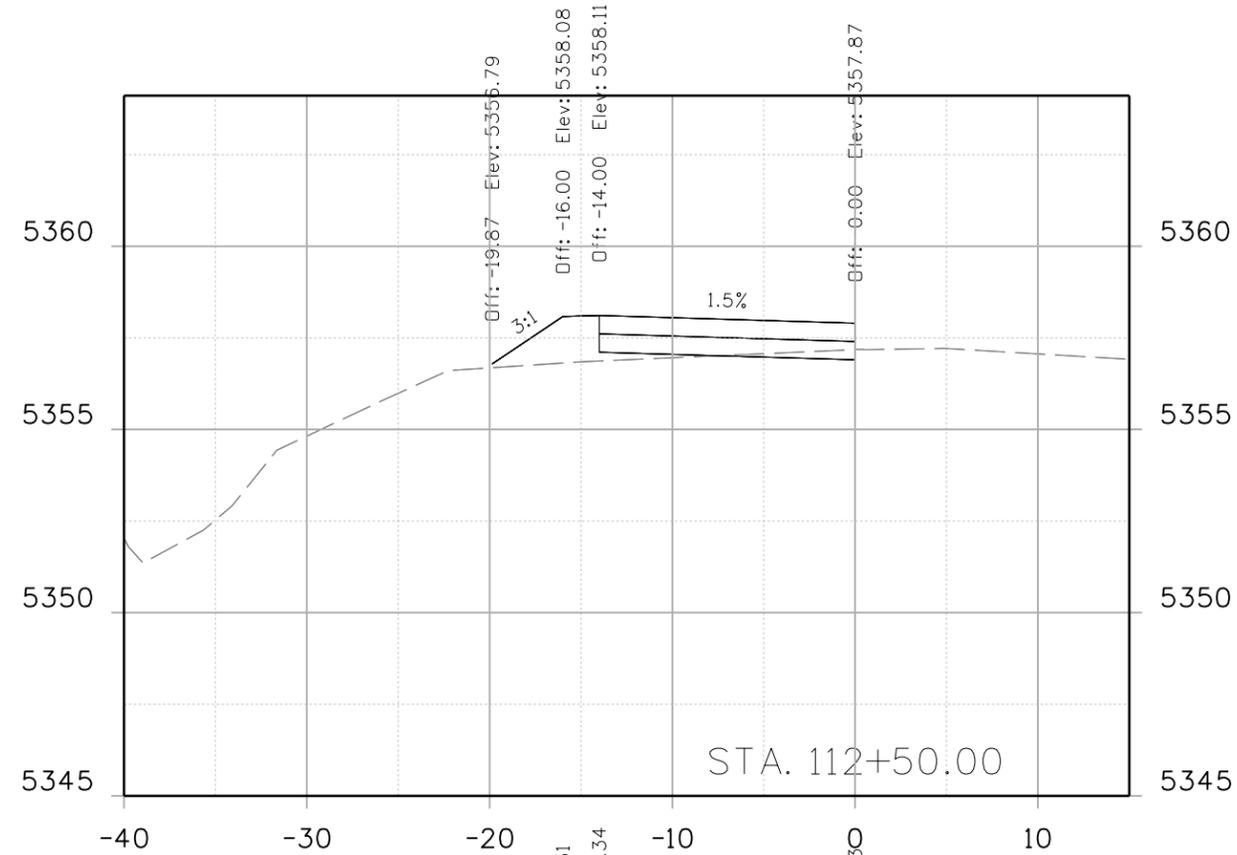
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No Revisions:	
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Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	09 of 36

Project No./Code	STU M145-013
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Sheet Number	158

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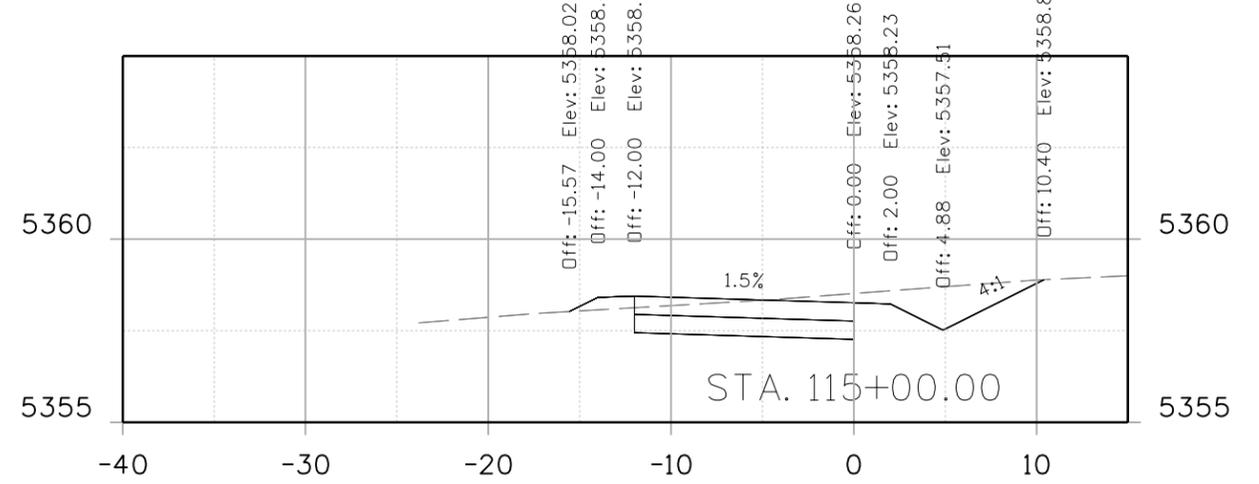
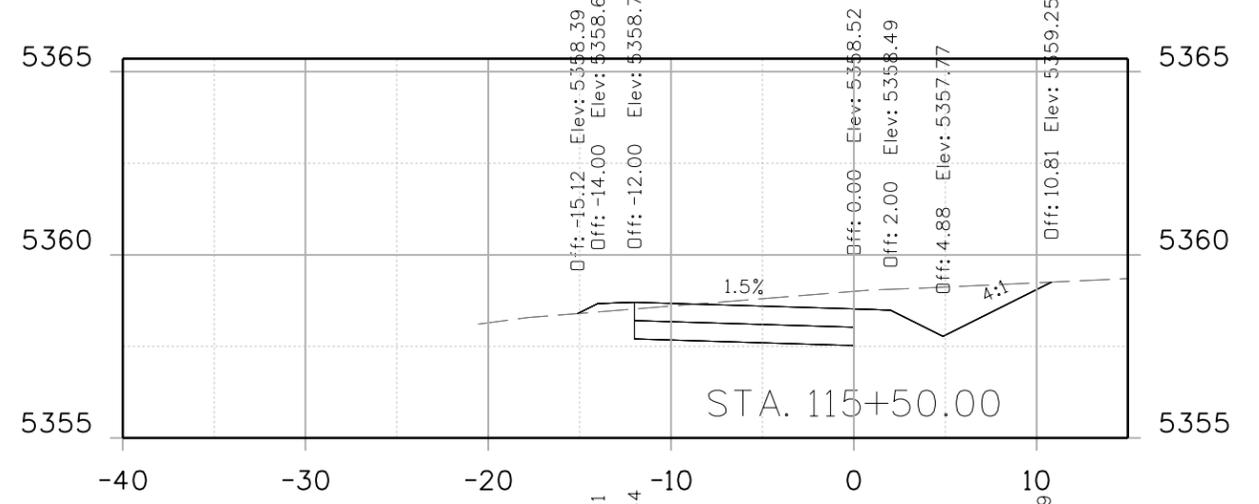
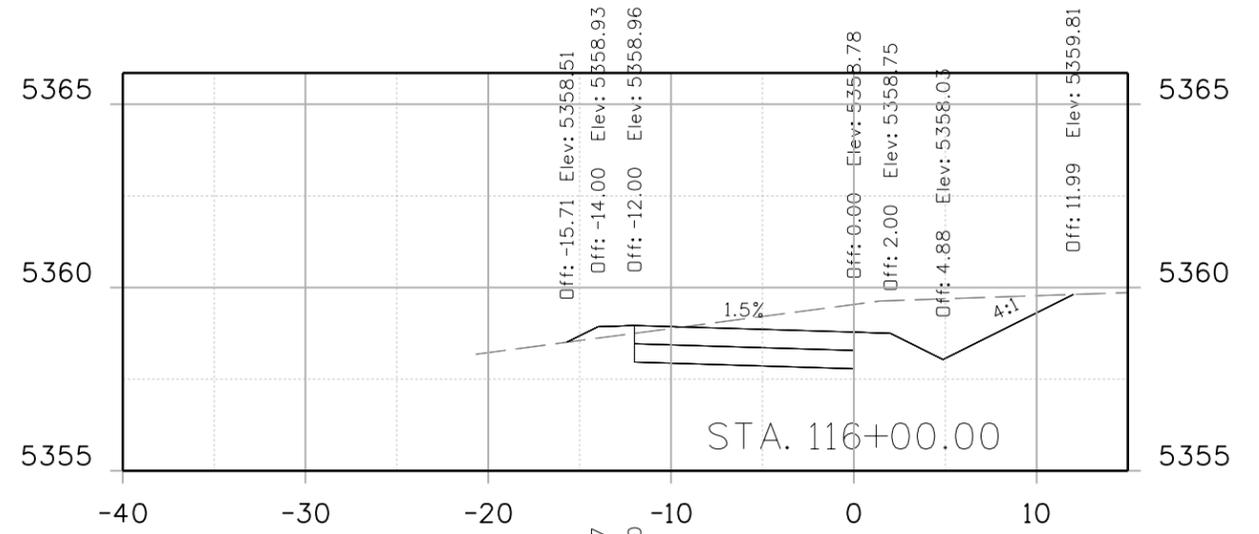
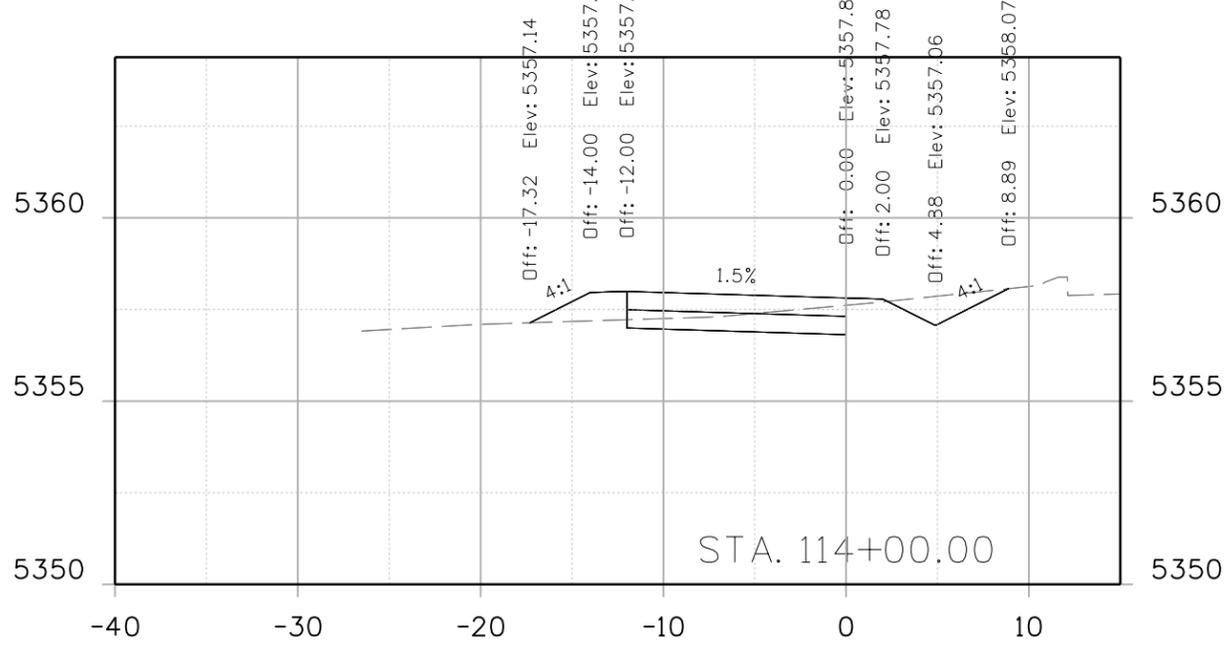
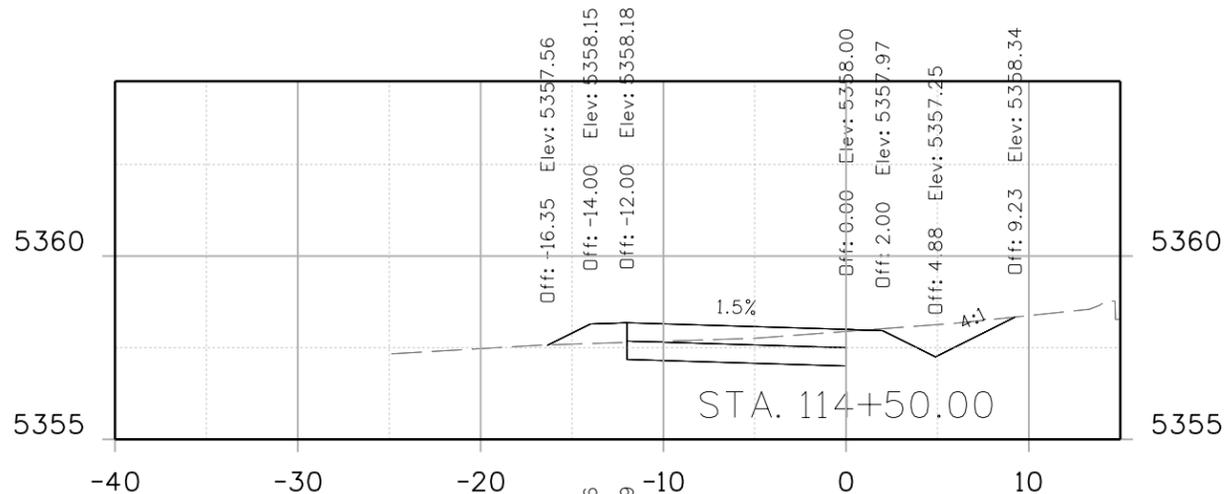
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INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION

Designer: Z. CRIMMINS  
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 Sheet Subset: XSEC Subset Sheets: 10 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number 159



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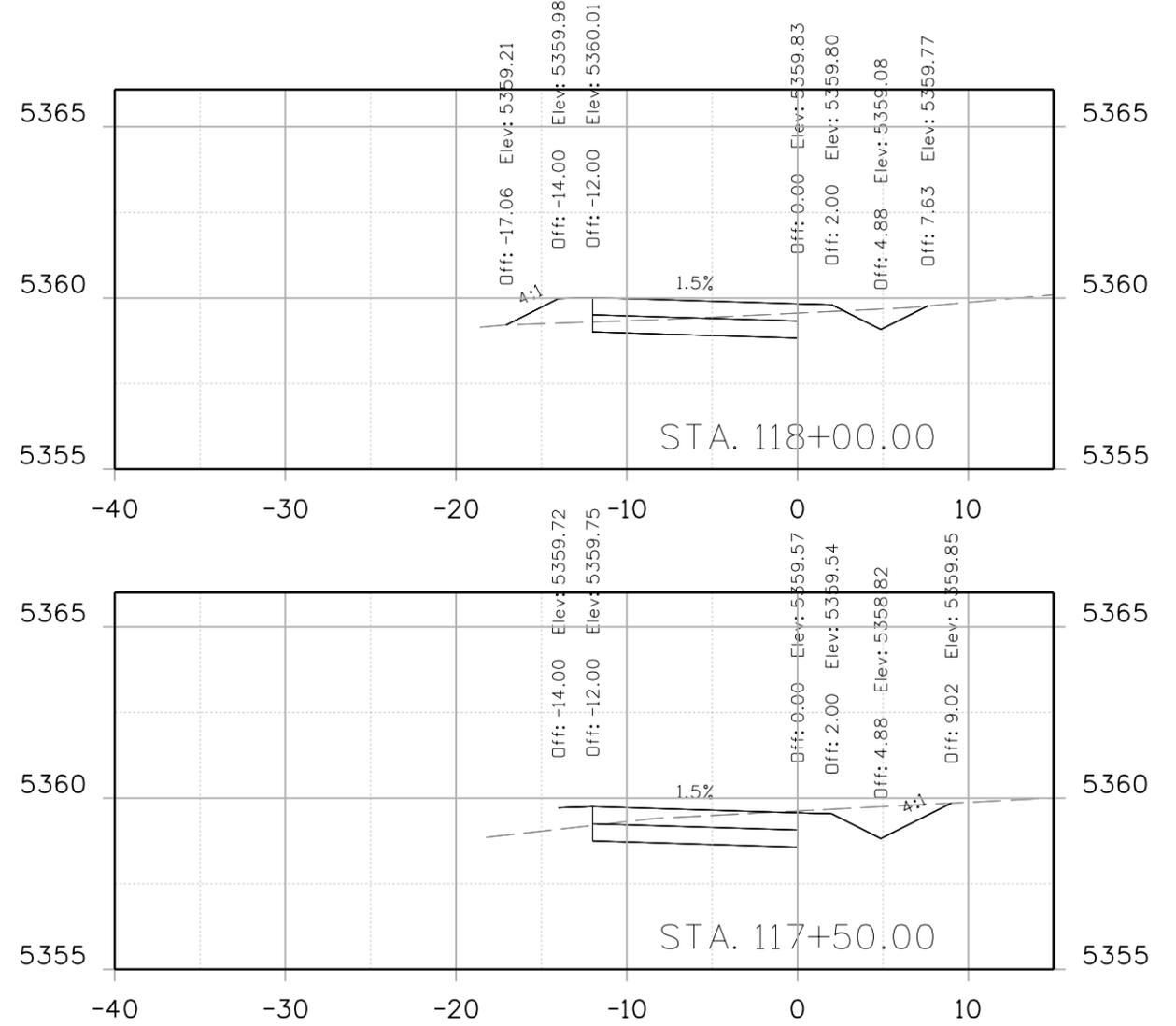
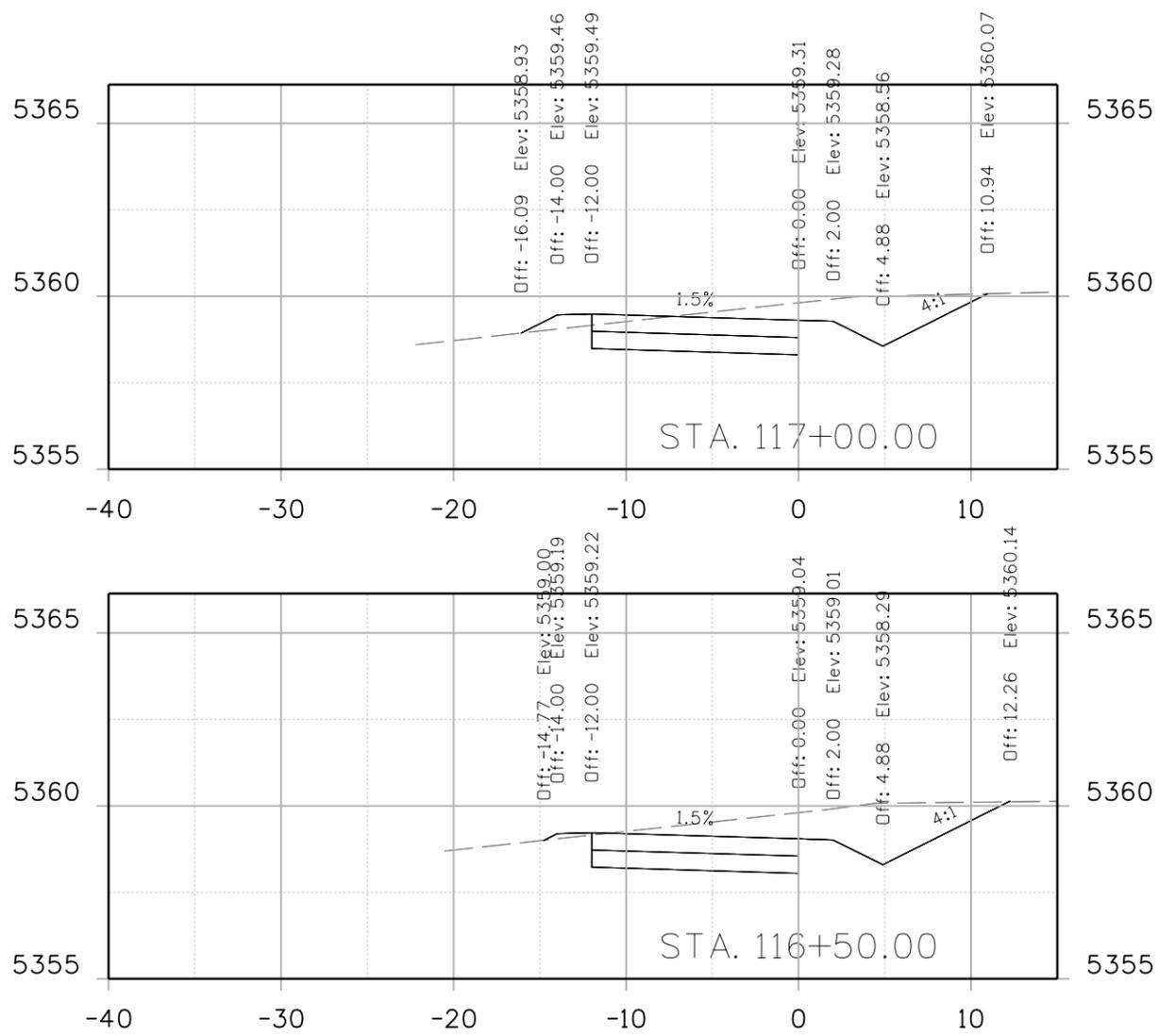
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As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2
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Revised:	
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Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	11 of 36

Project No./Code	STU M145-013
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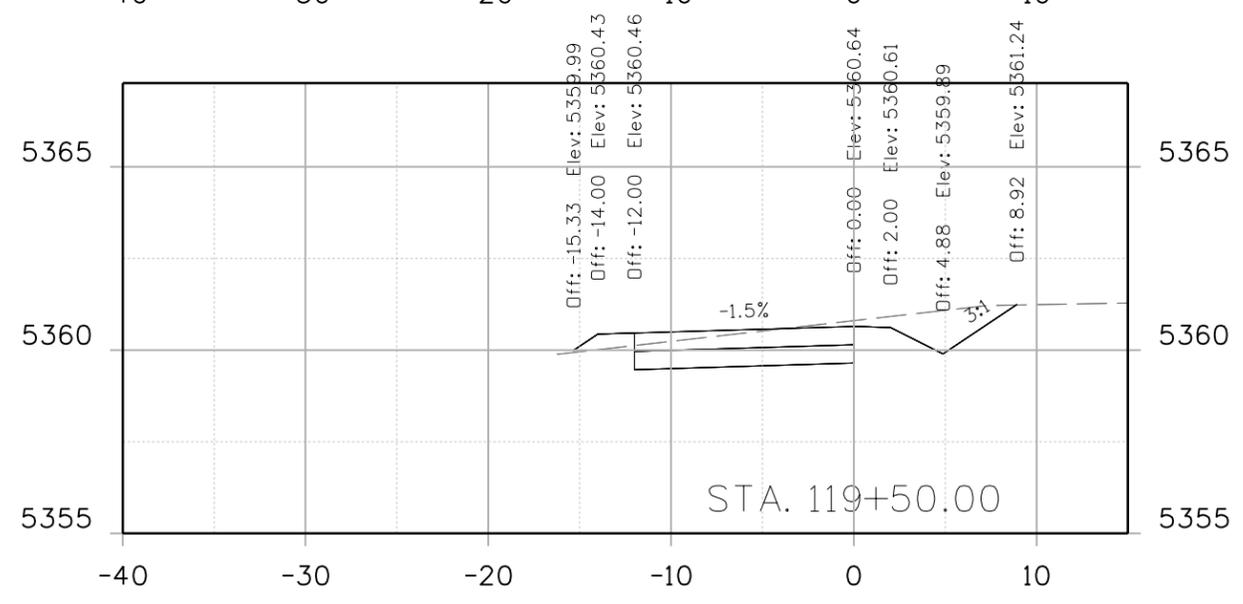
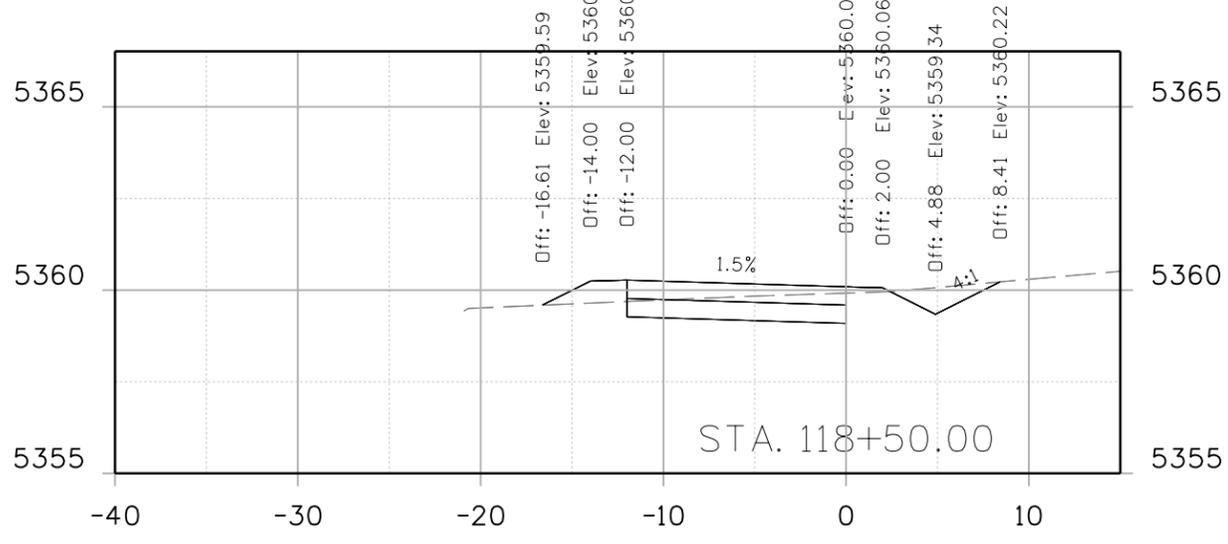
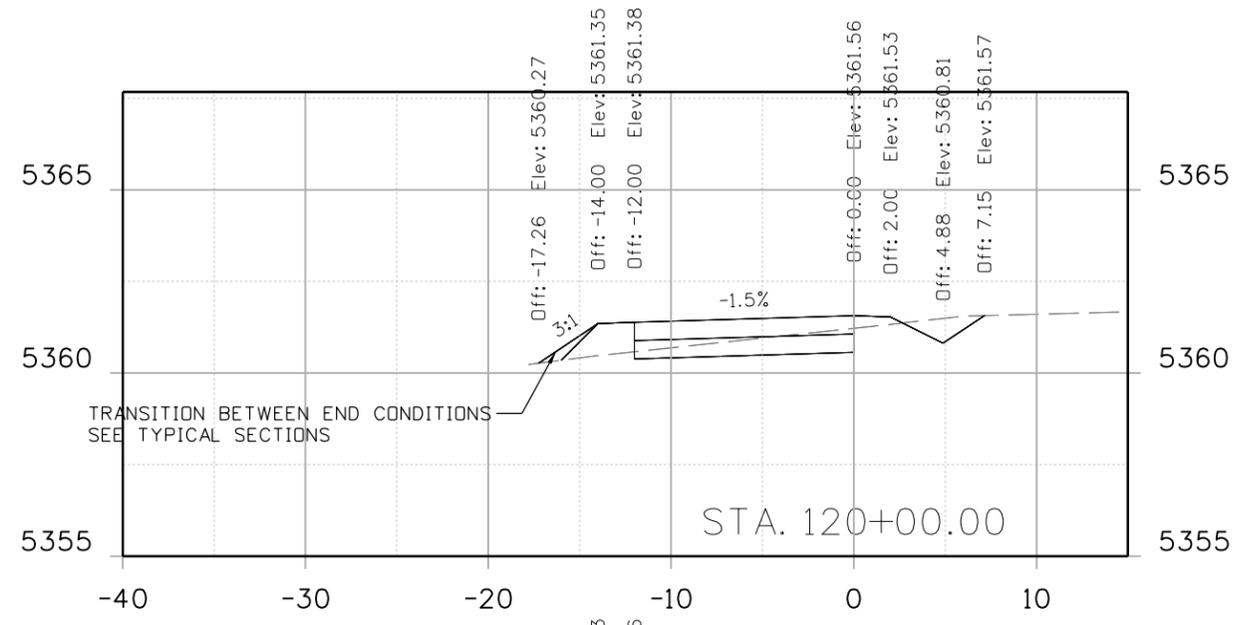
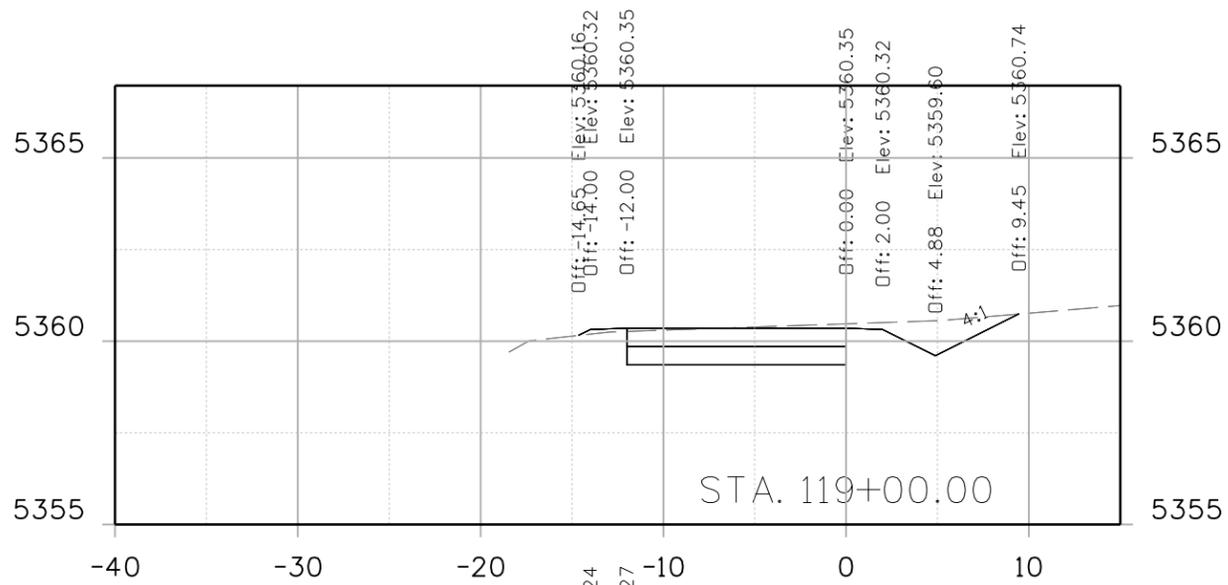
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION**

Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 12 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **161**

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 Unit Information  
  
 8000 South Chester Street  
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 Centennial, CO 80112  
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Date:	Comments	Init.



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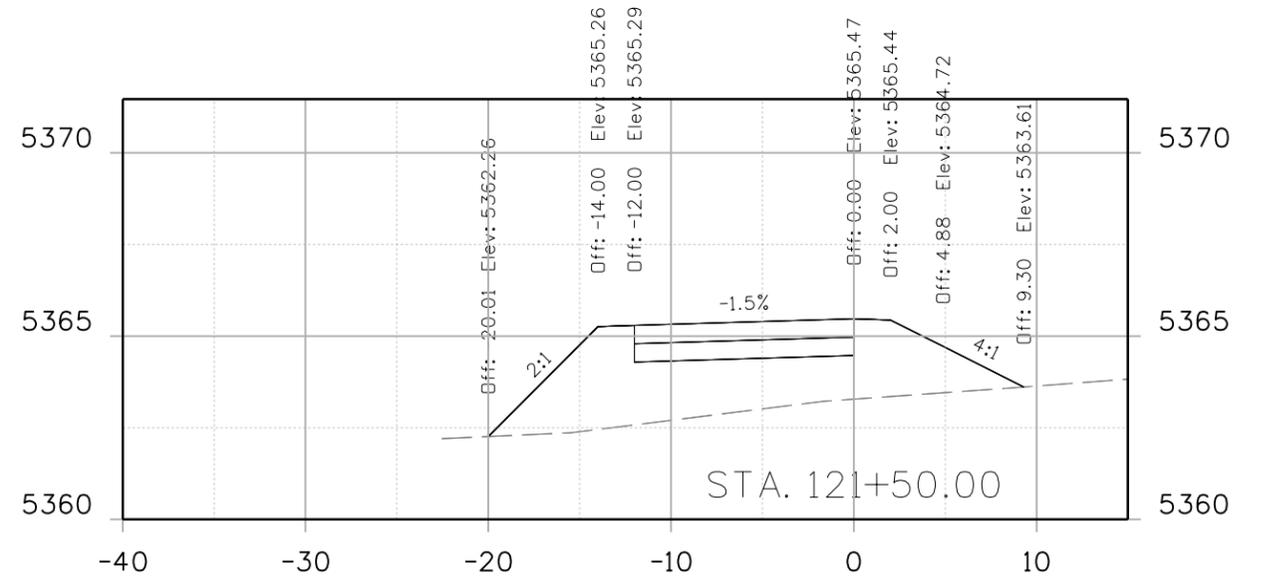
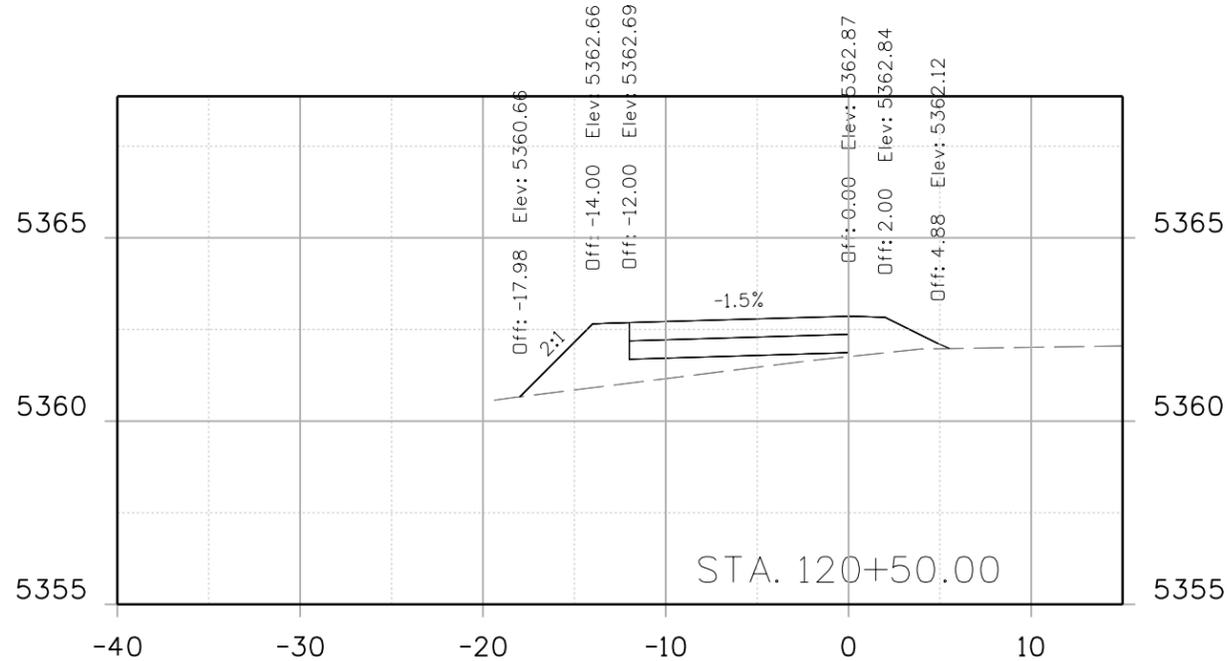
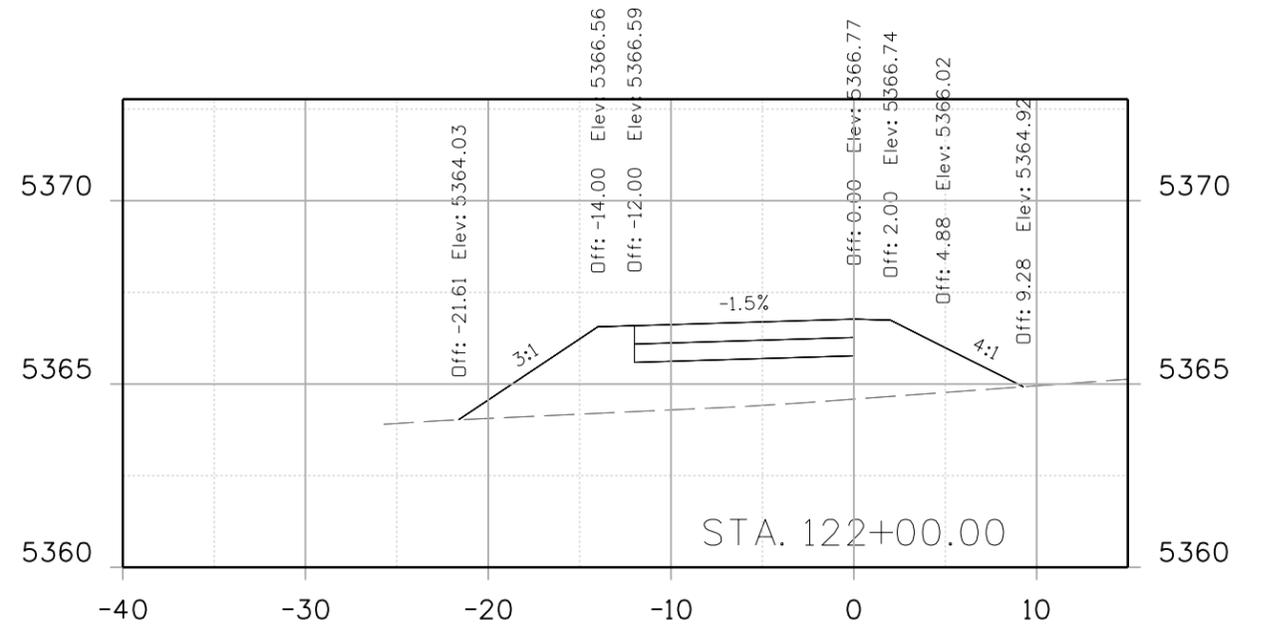
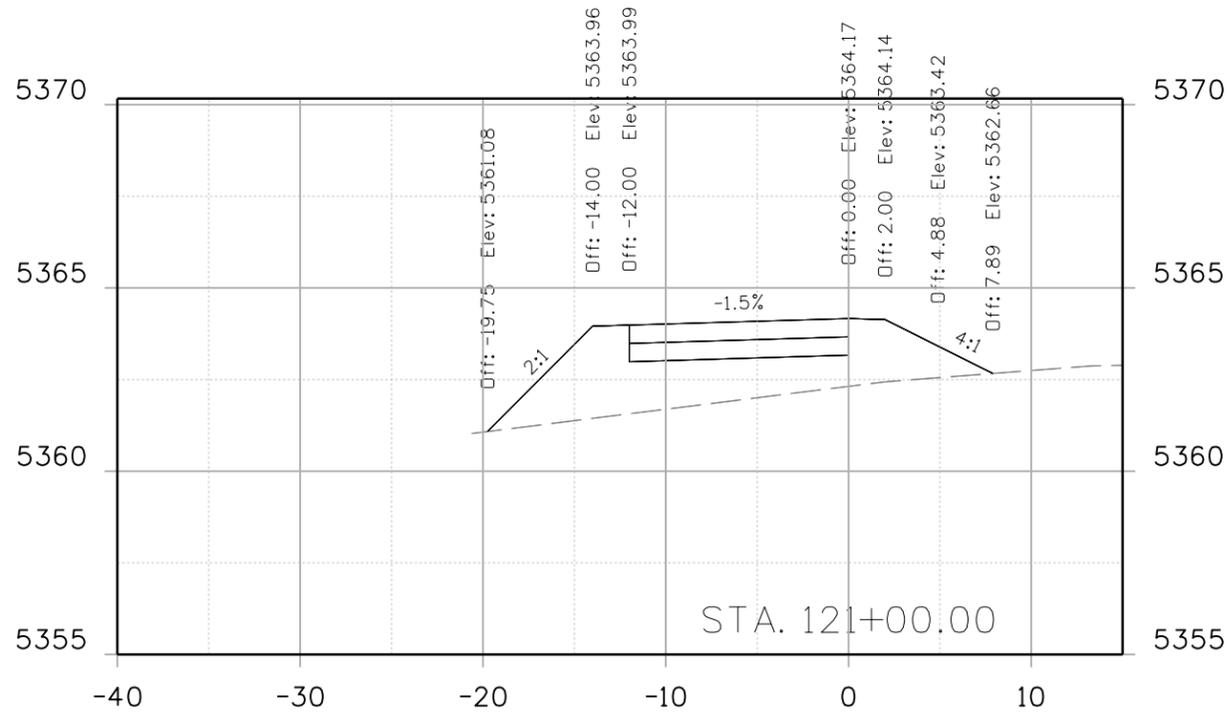
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INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION

Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	13 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **162**

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 Phone: 303-799-6806

Sheet Revisions

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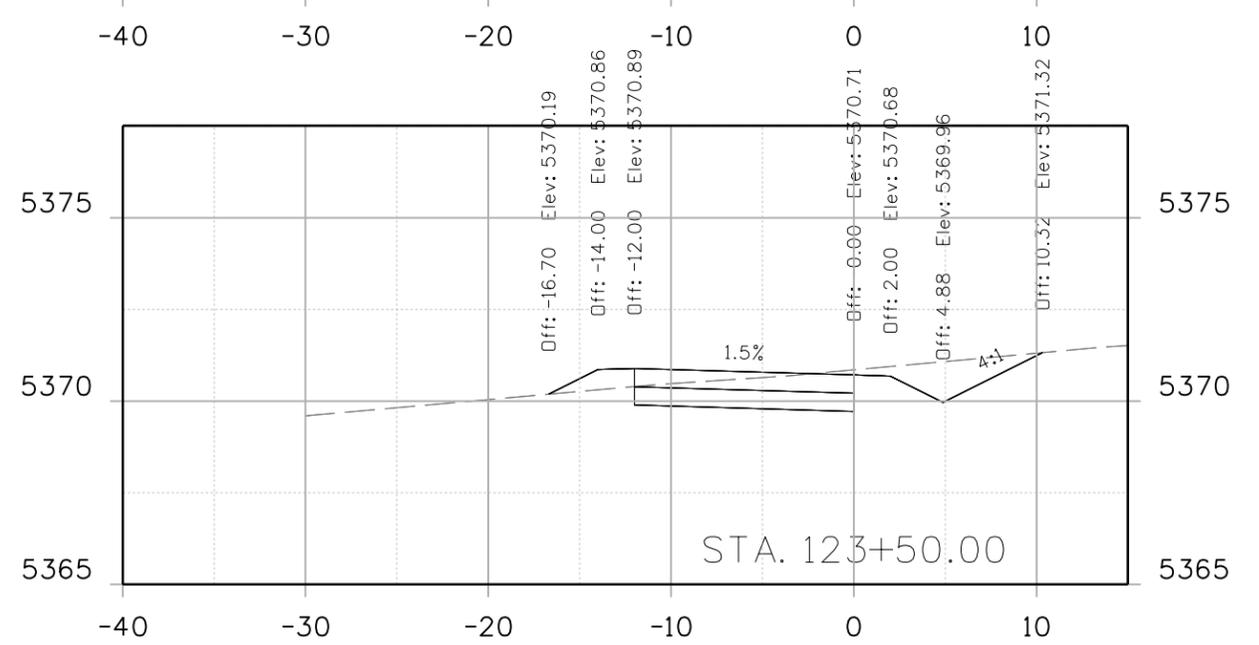
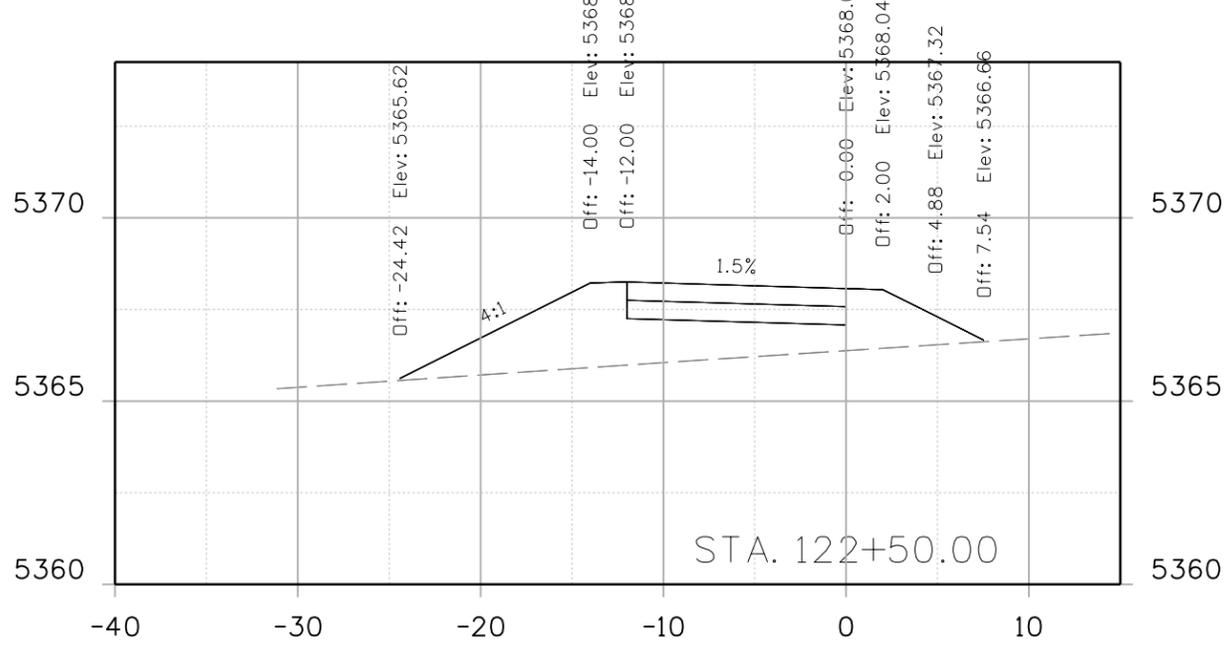
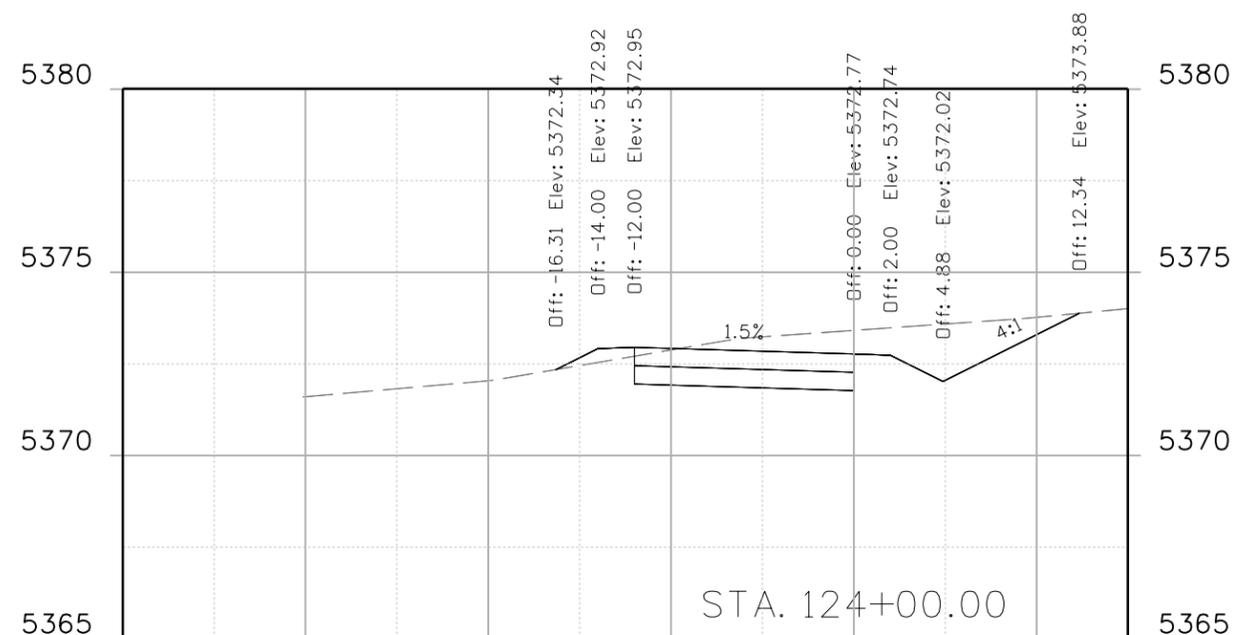
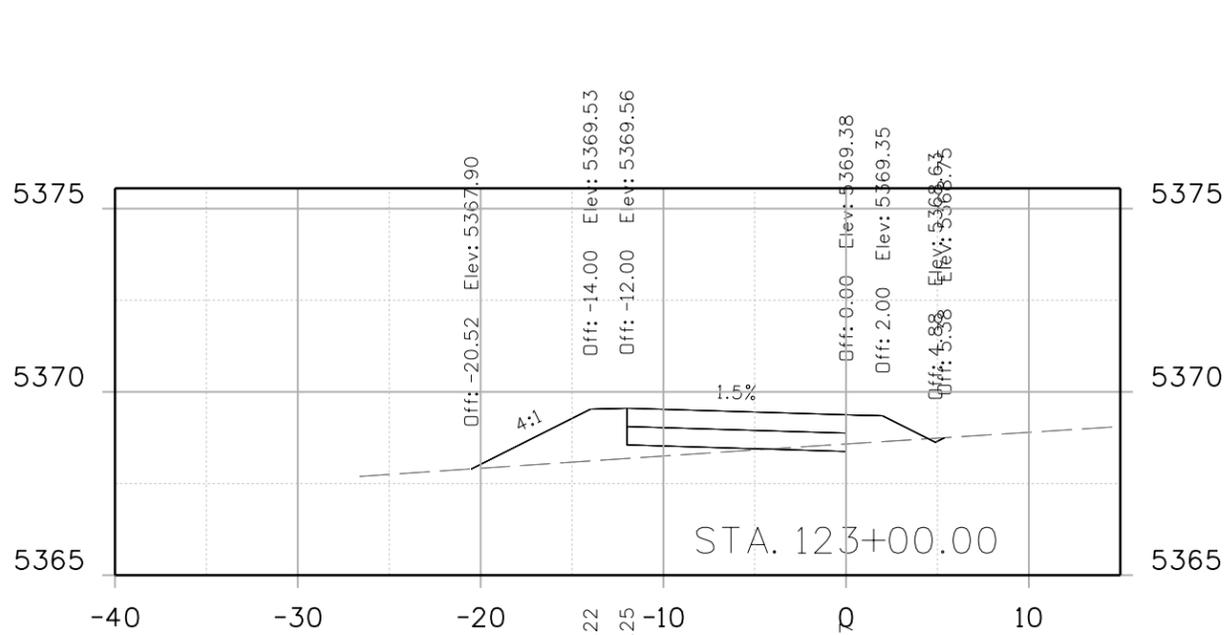
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INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION  
 Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 14 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **163**

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 Suite 500  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



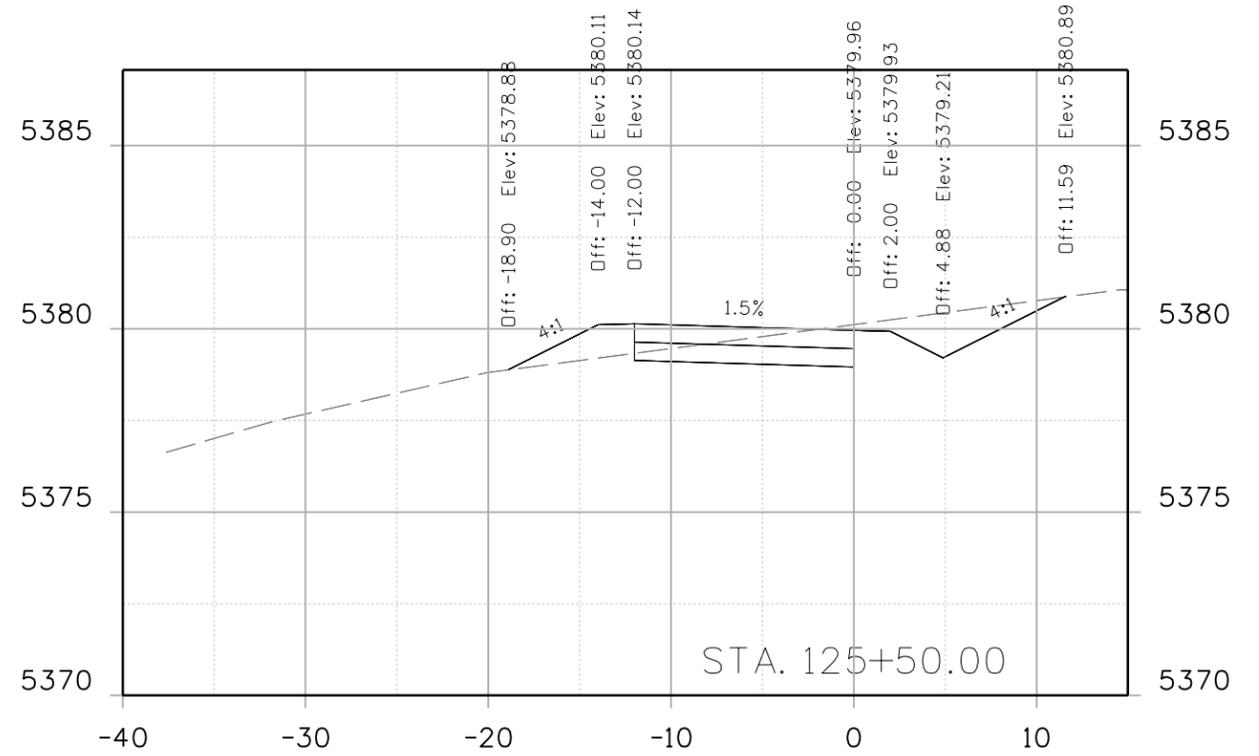
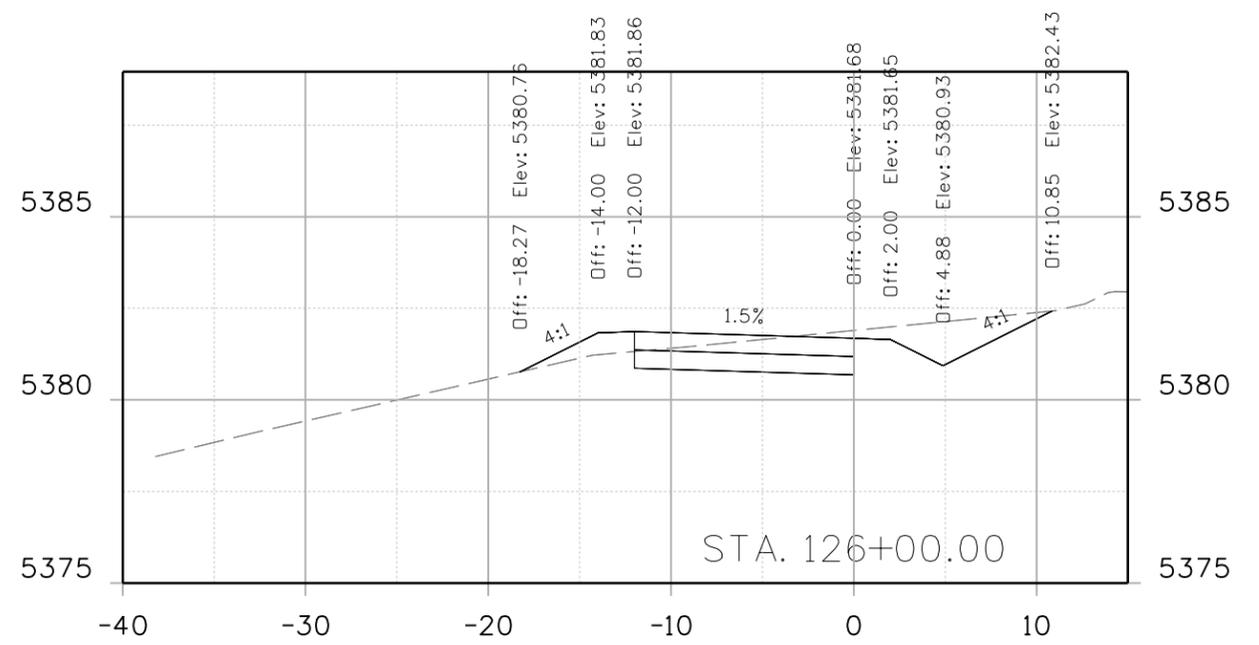
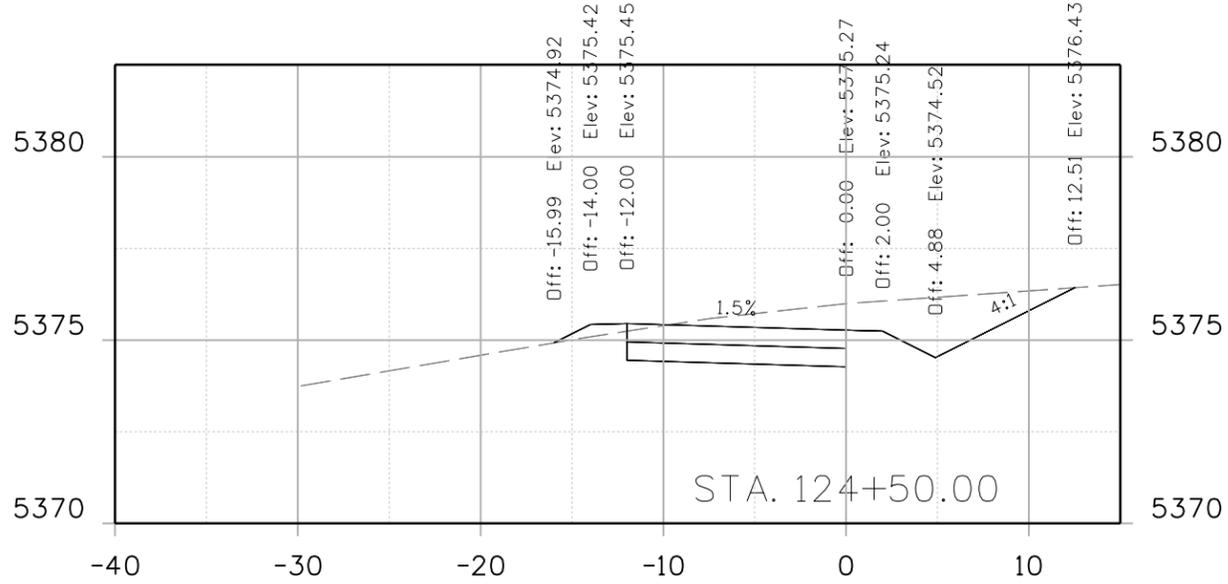
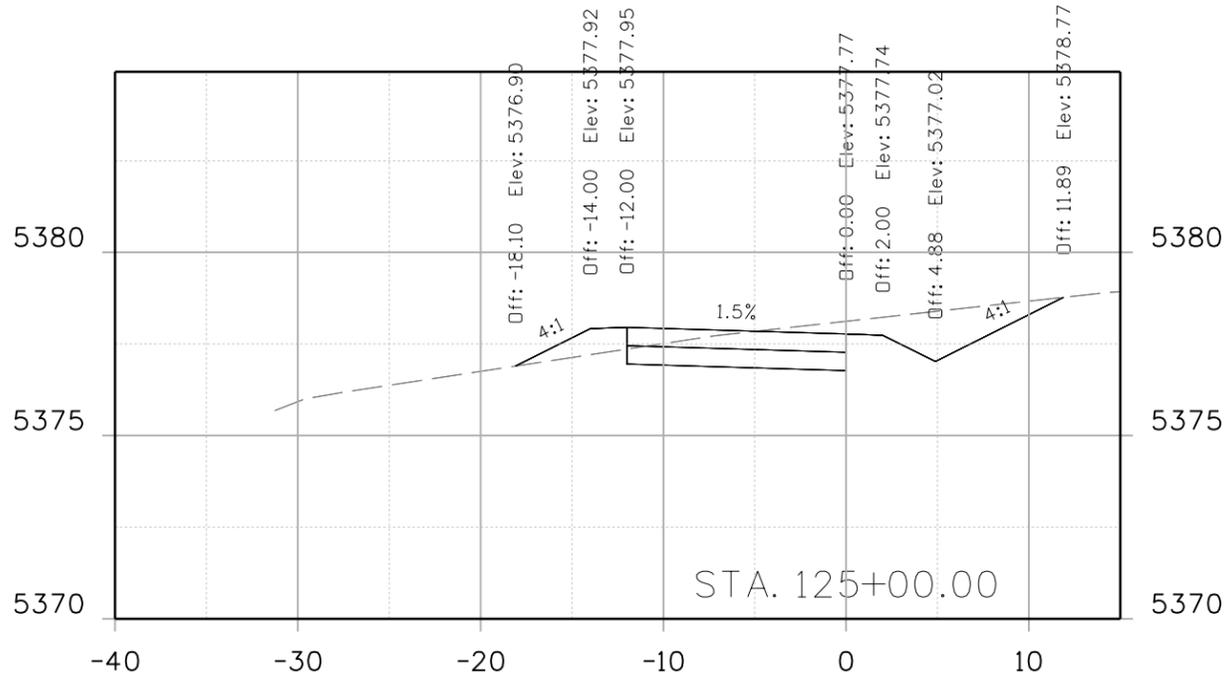
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 No Revisions:  
 Revised:  
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION**  
 Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 15 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **164**

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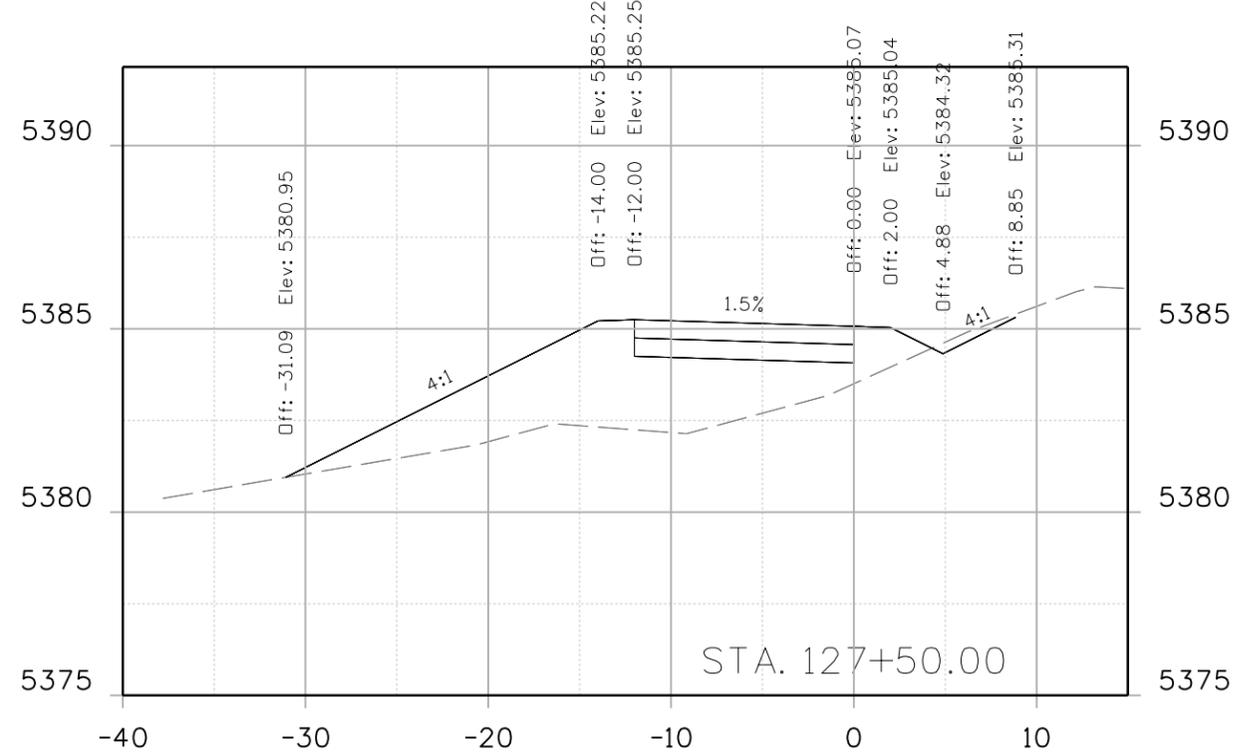
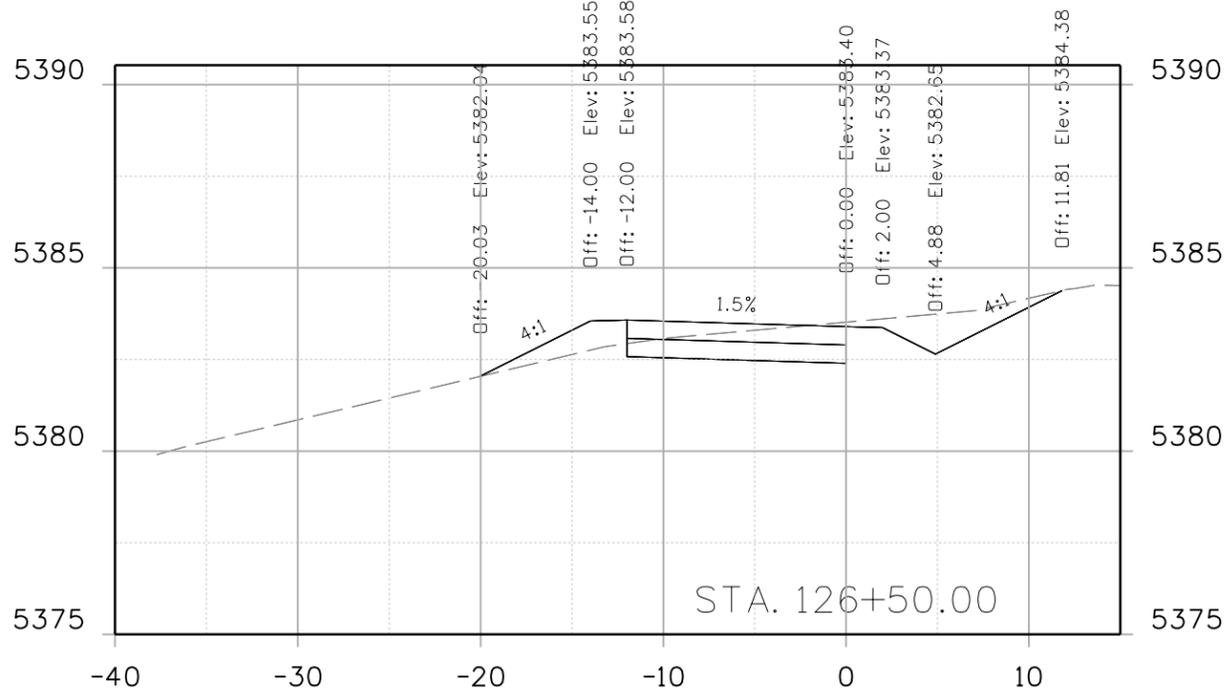
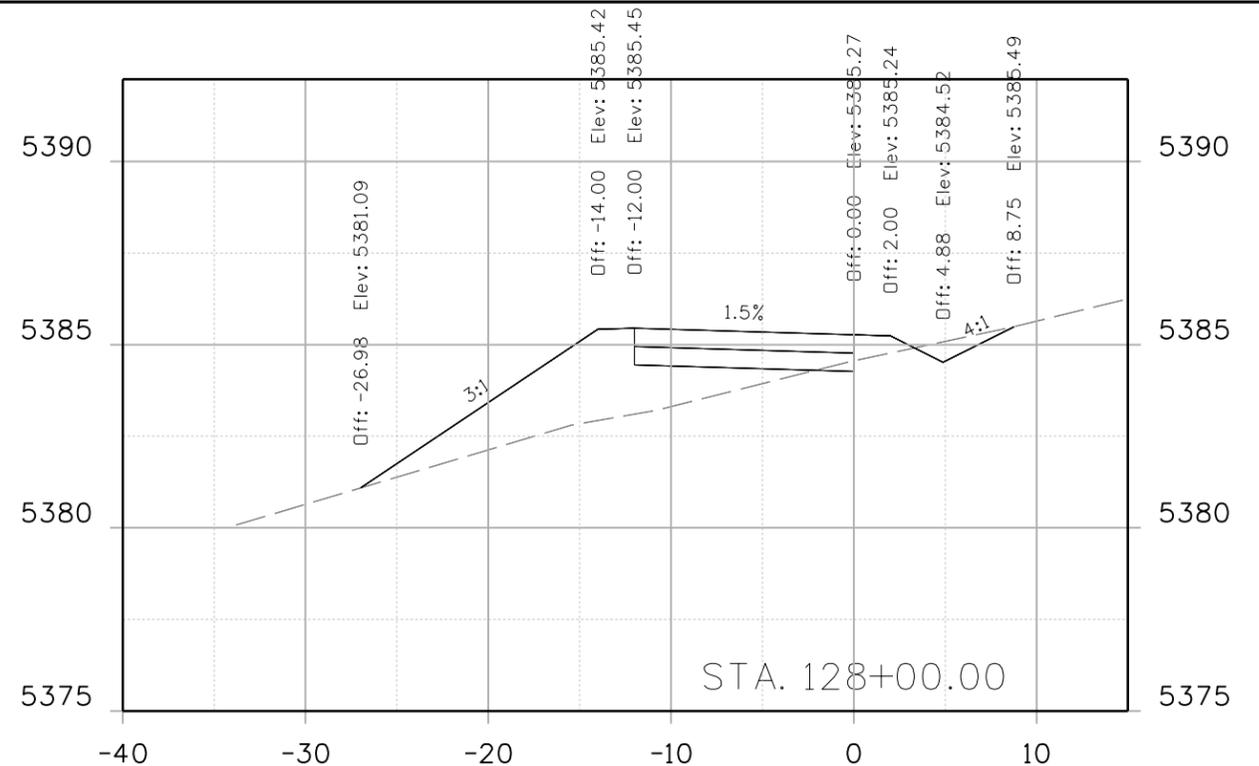
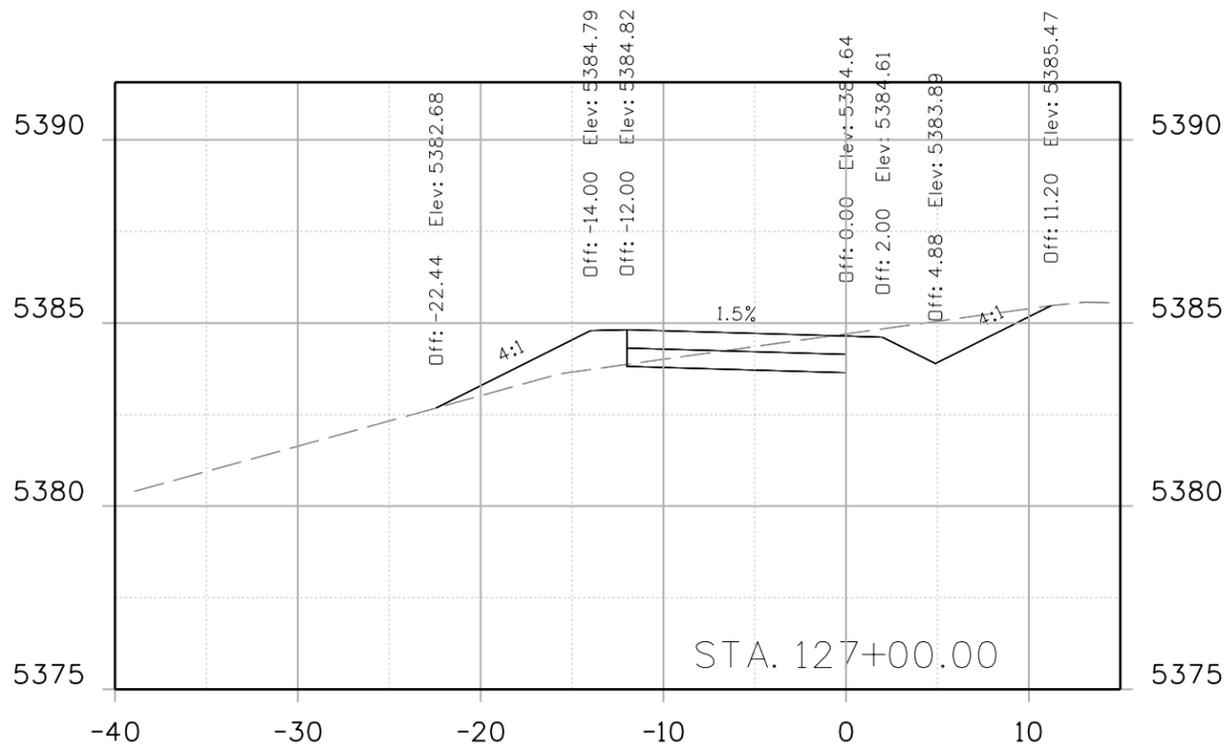
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION**

Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 16 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **165**

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 8000 South Chester Street  
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Sheet Revisions		
Date:	Comments	Init.

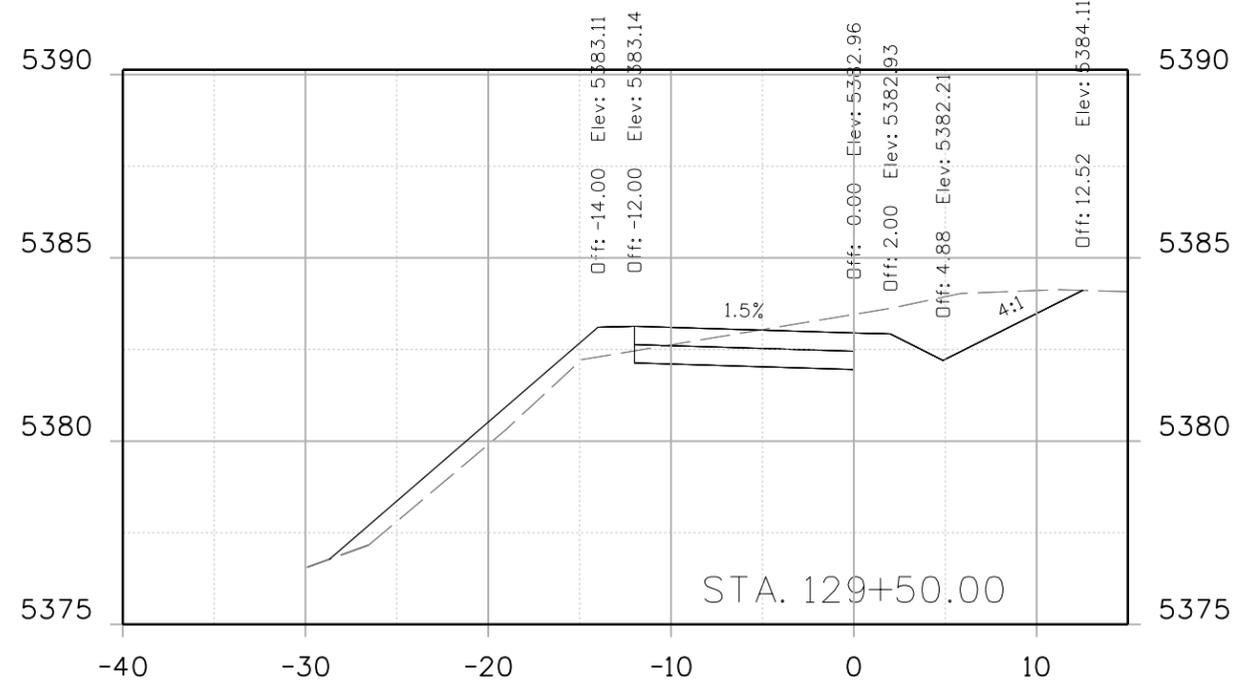
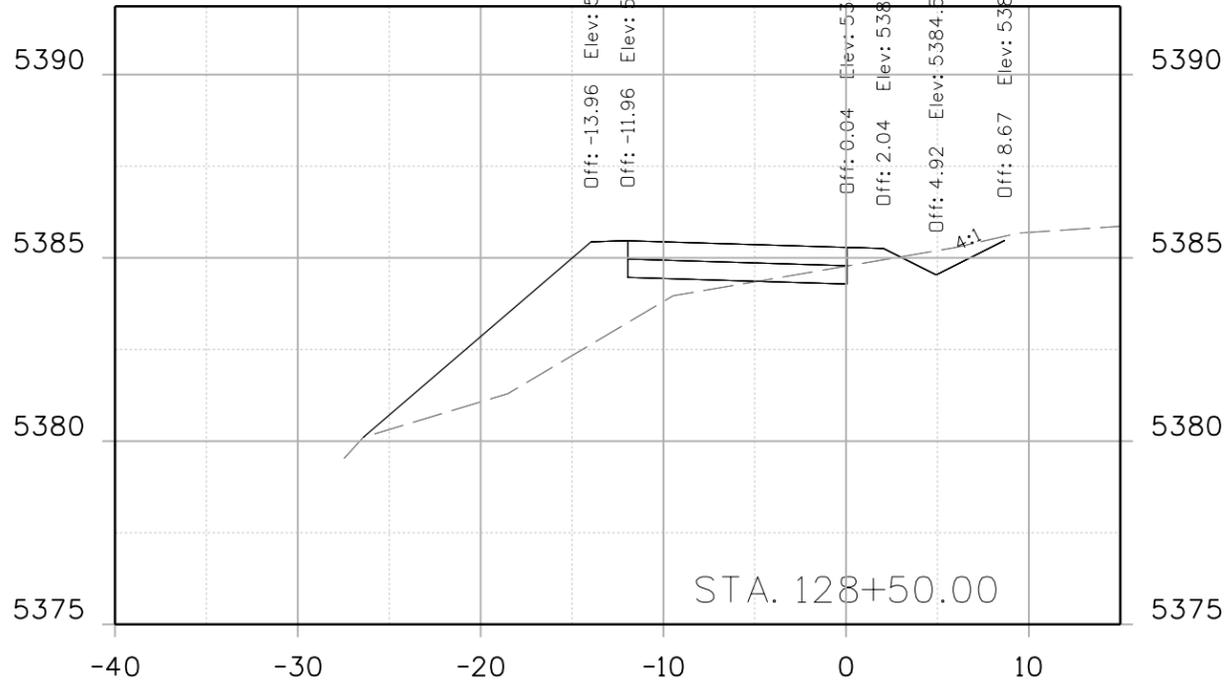
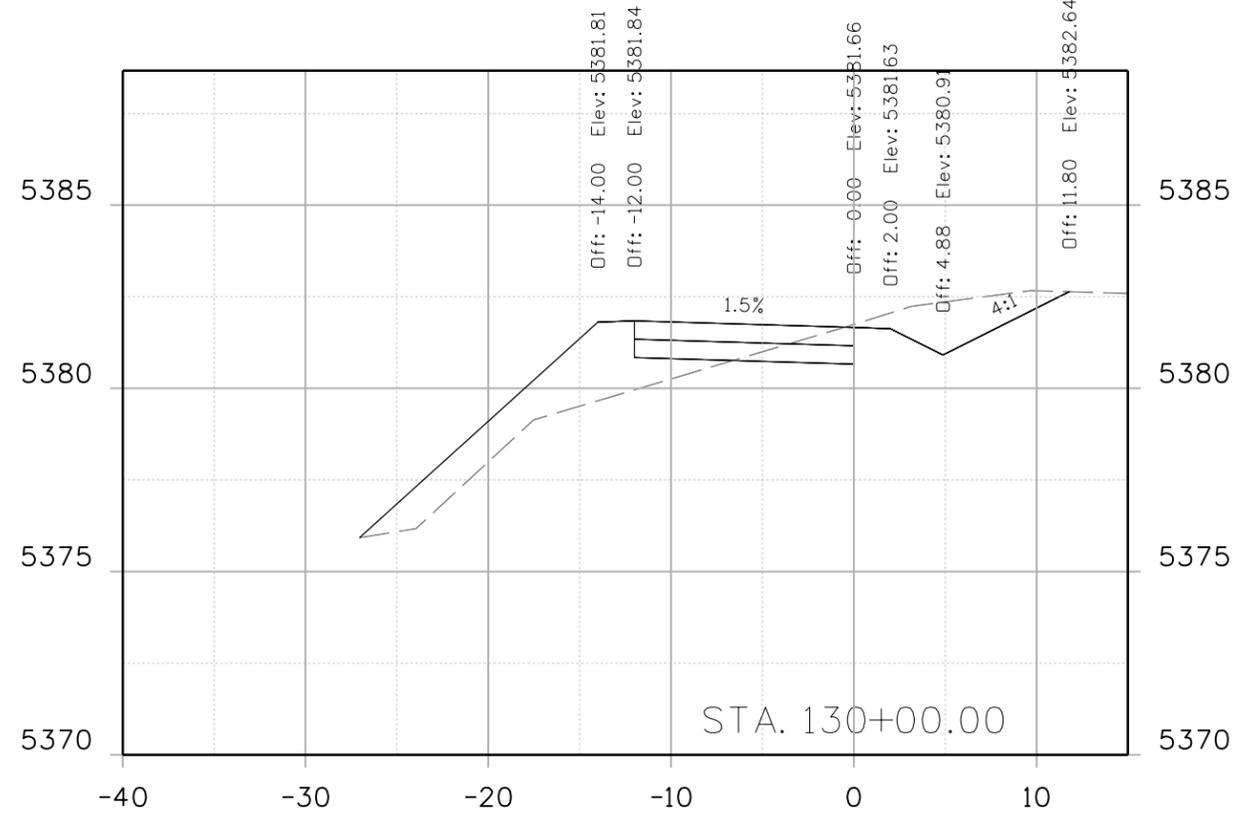
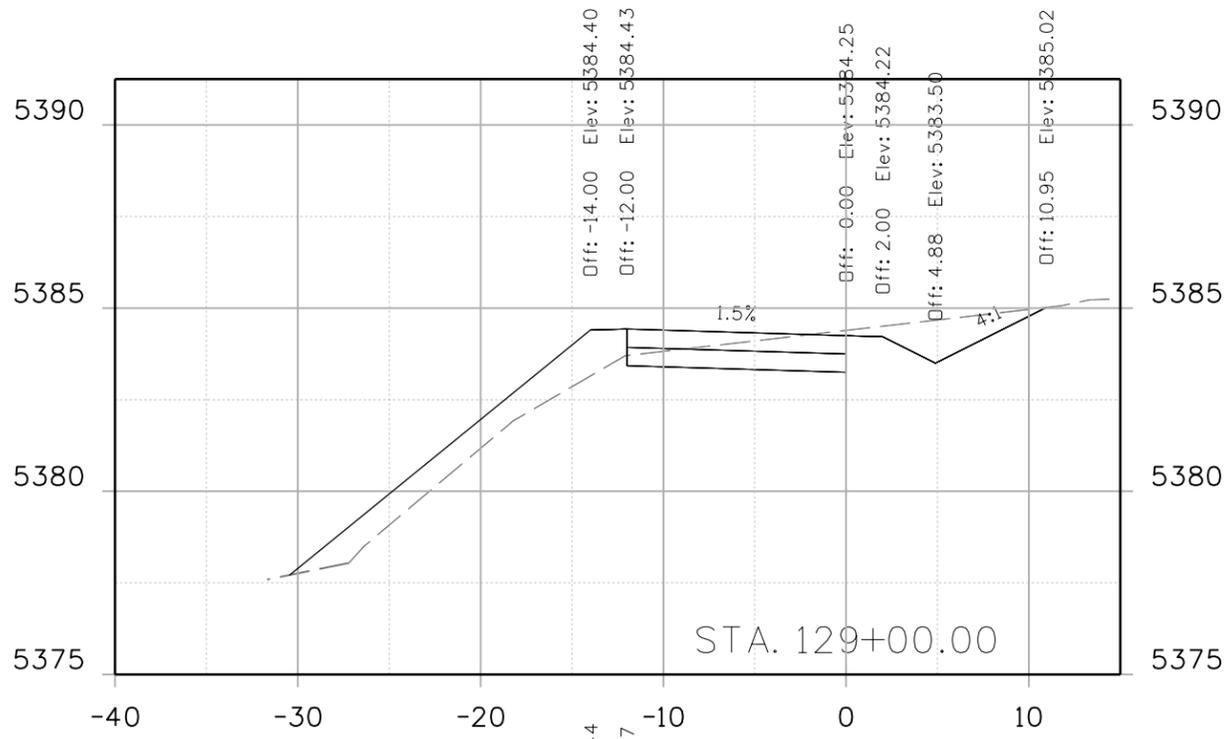


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As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2		Project No./Code
No Revisions:	CROSS SECTION		STU M145-013
Revised:	Designer: Z. CRIMMINS	Checker:	23593
Void:	Detailer: Z. CRIMMINS		
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 Phone: 303-799-6806

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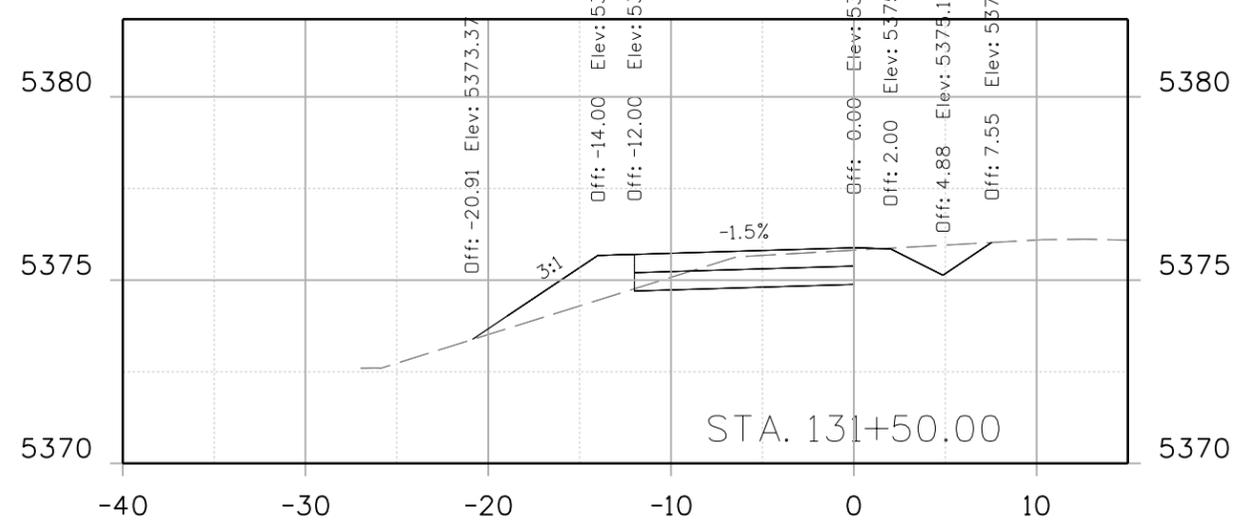
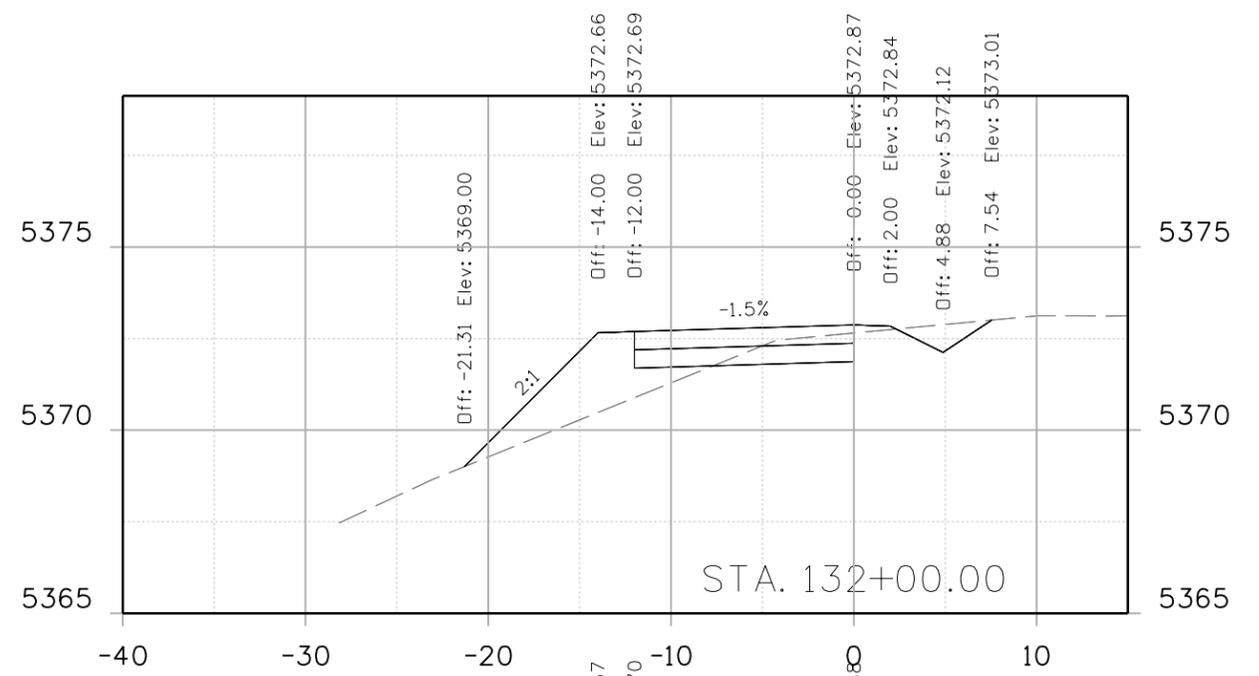
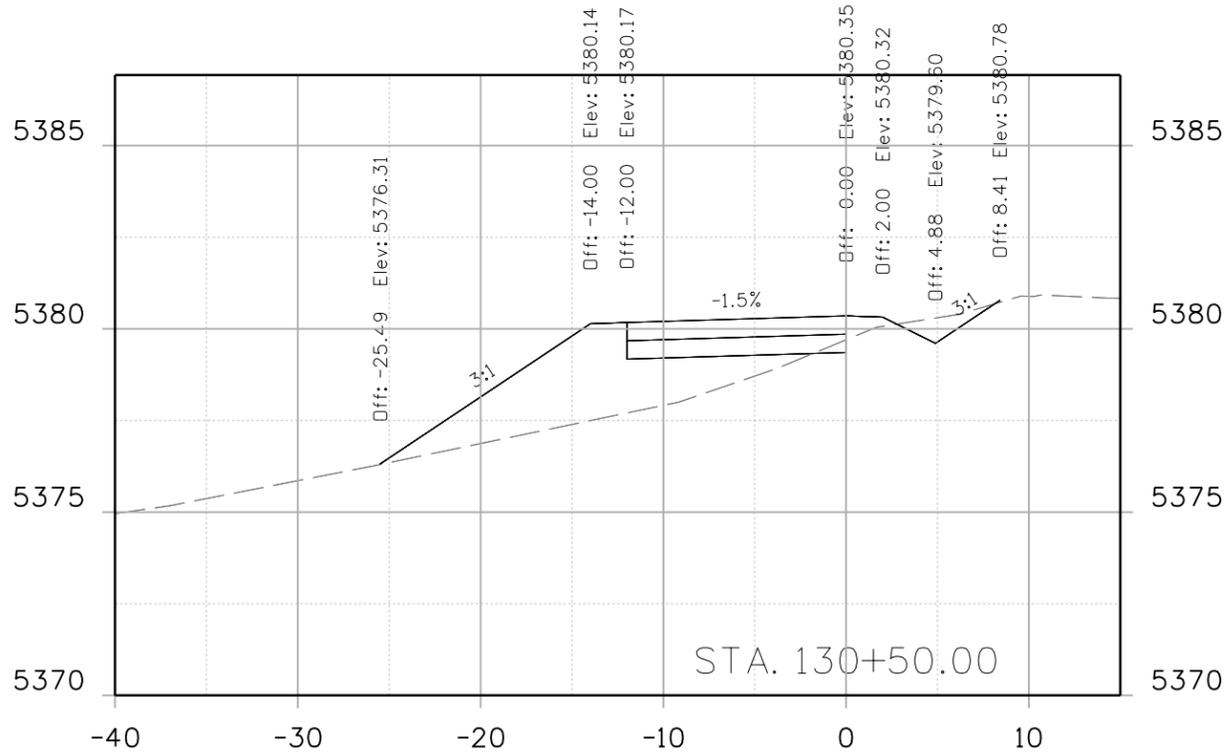
**INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION**

Designer: Z. CRIMMINS  
 Checker:  
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 Sheet Subset: XSEC  
 Subset Sheets: 18 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **167**

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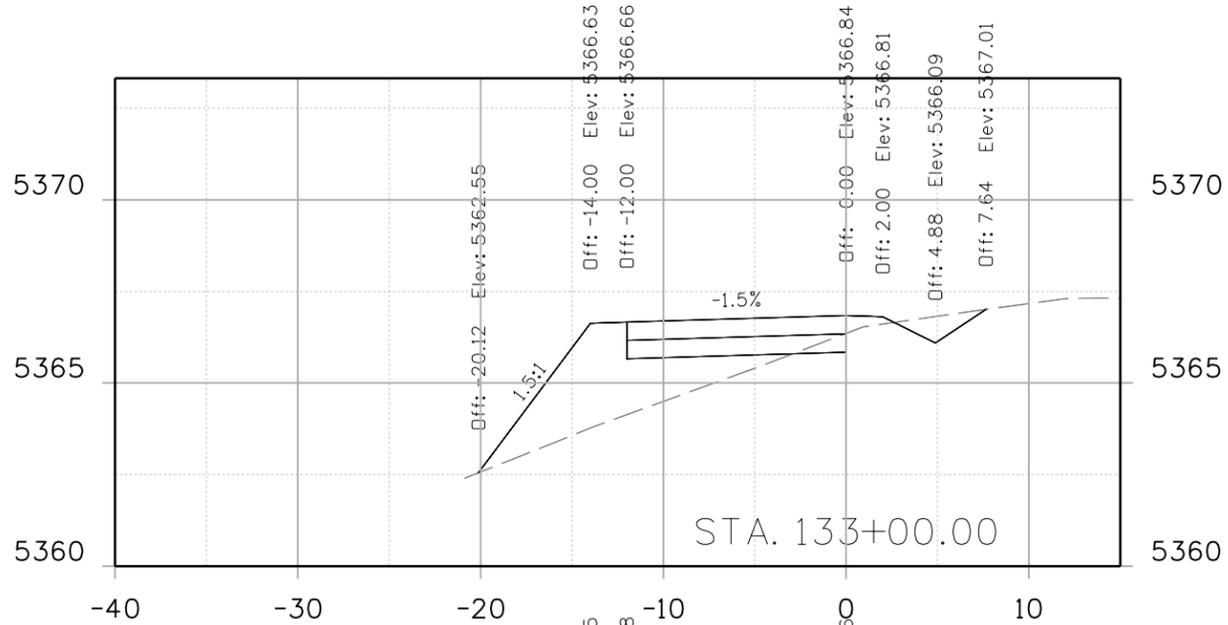
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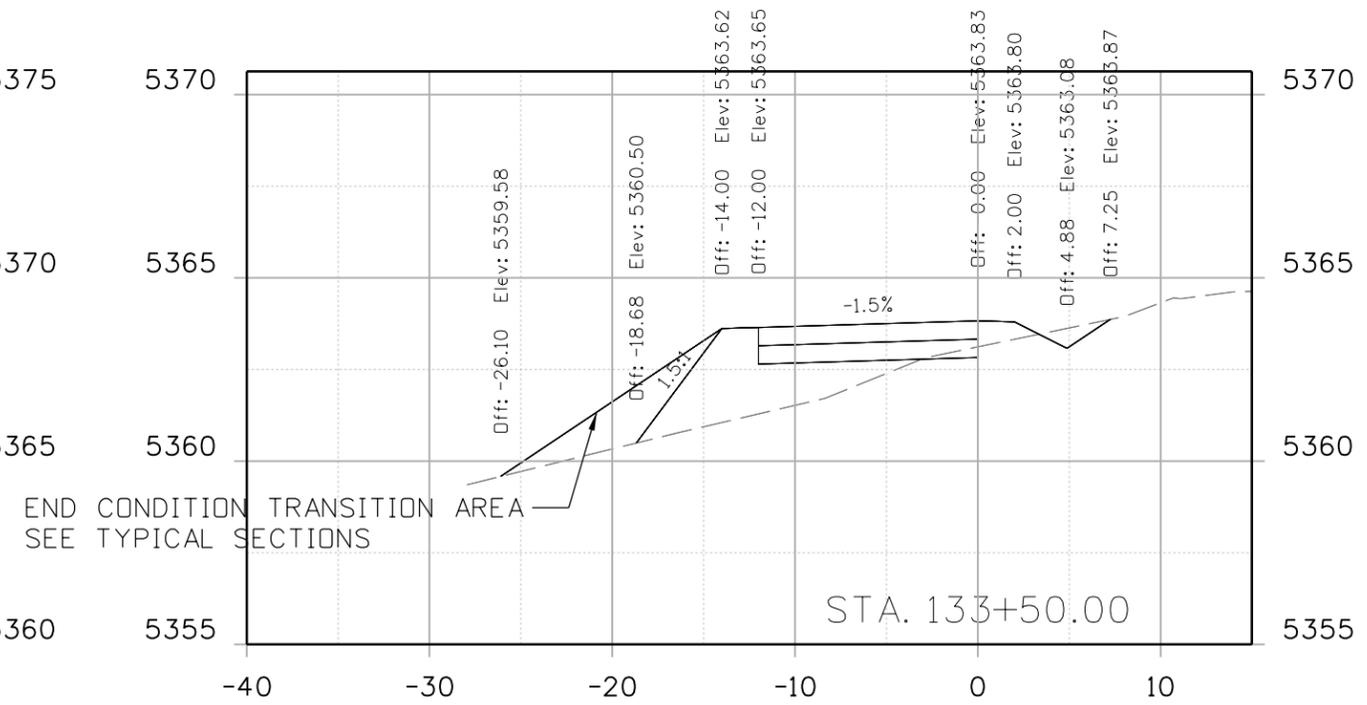
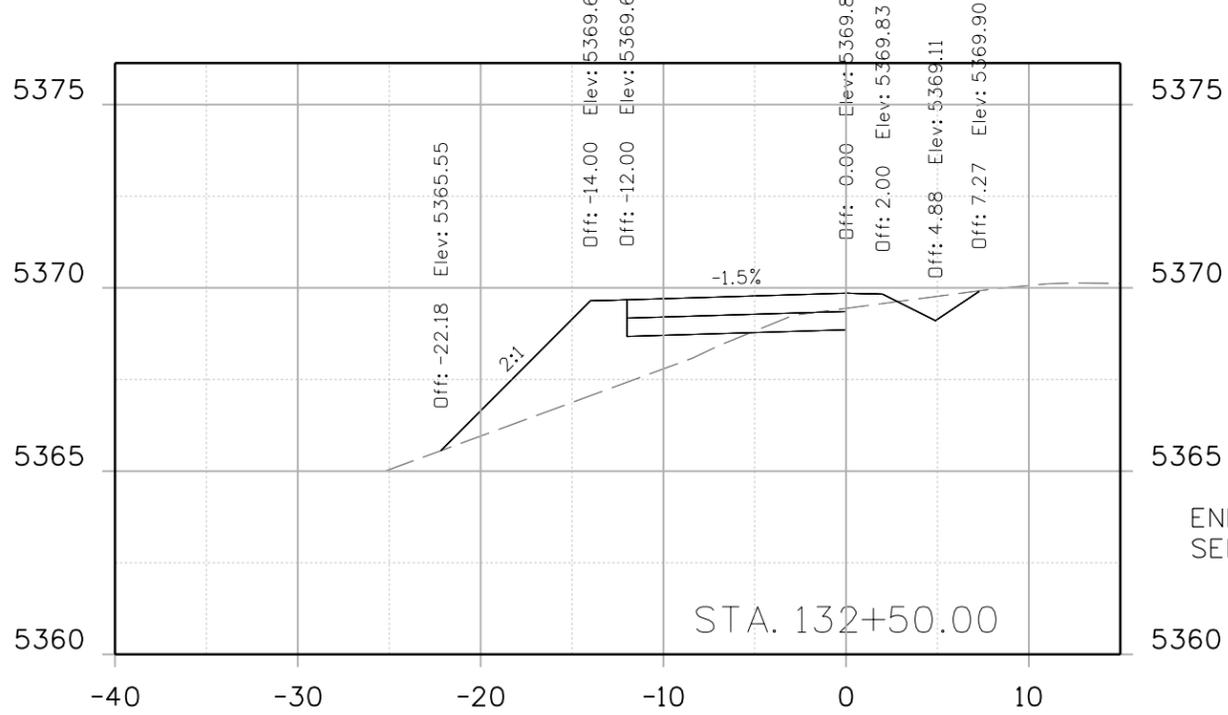
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Designer: Z. CRIMMINS  
Detailer: Z. CRIMMINS  
Sheet Subset: XSEC  
Subset Sheets: 19 of 36

Project No./Code  
STU M145-013  
23593  
Sheet Number 168

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SEE DRIVEWAY 2 DETAILS



END CONDITION TRANSITION AREA  
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Sheet Revisions		
Date:	Comments	Init.



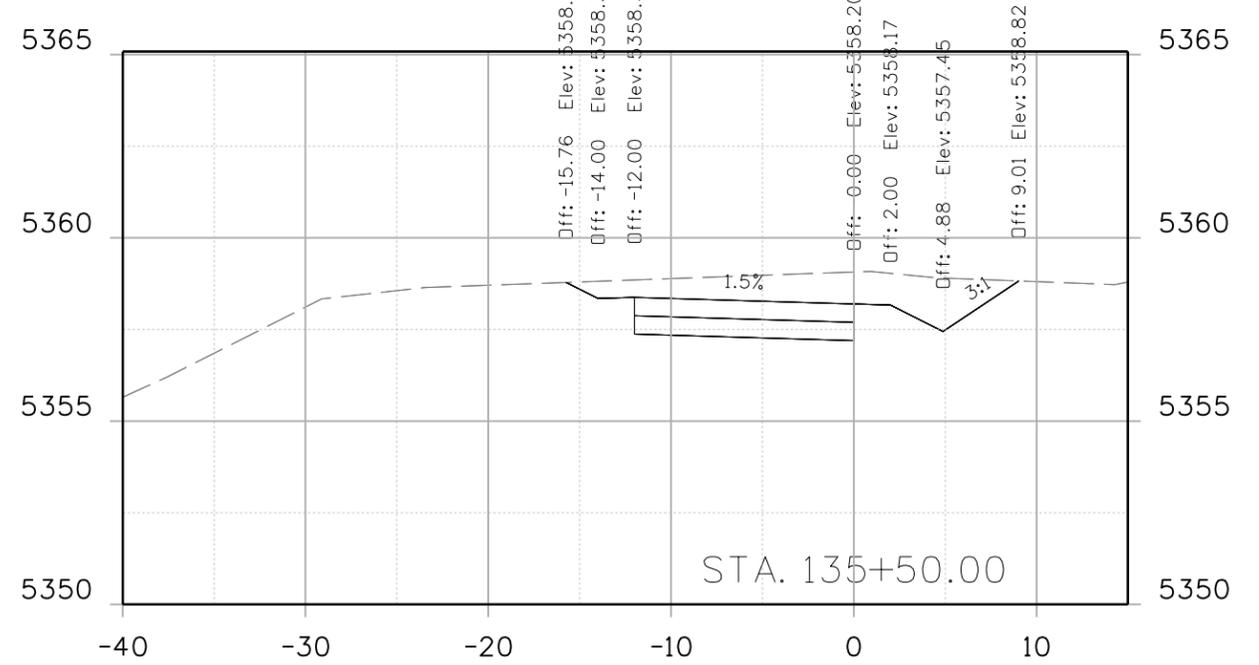
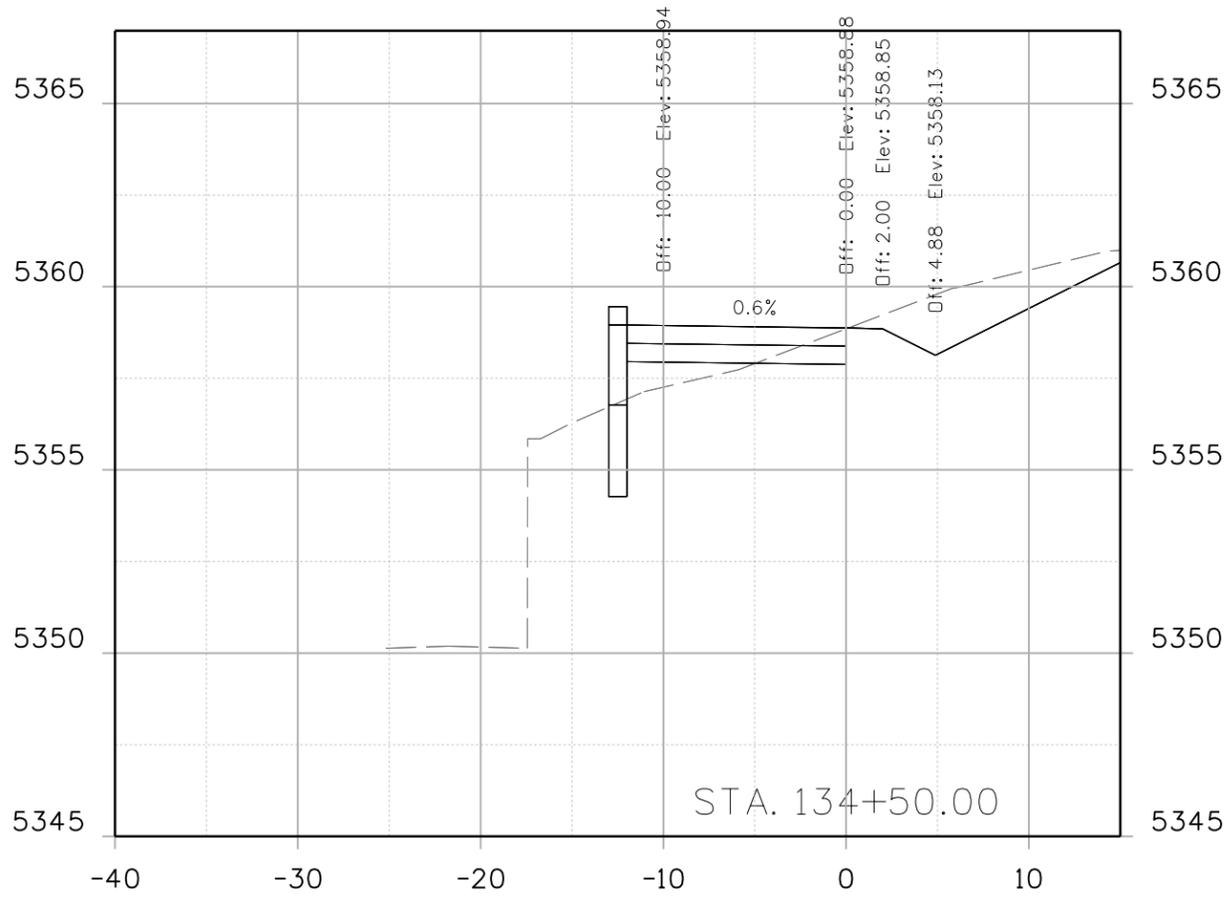
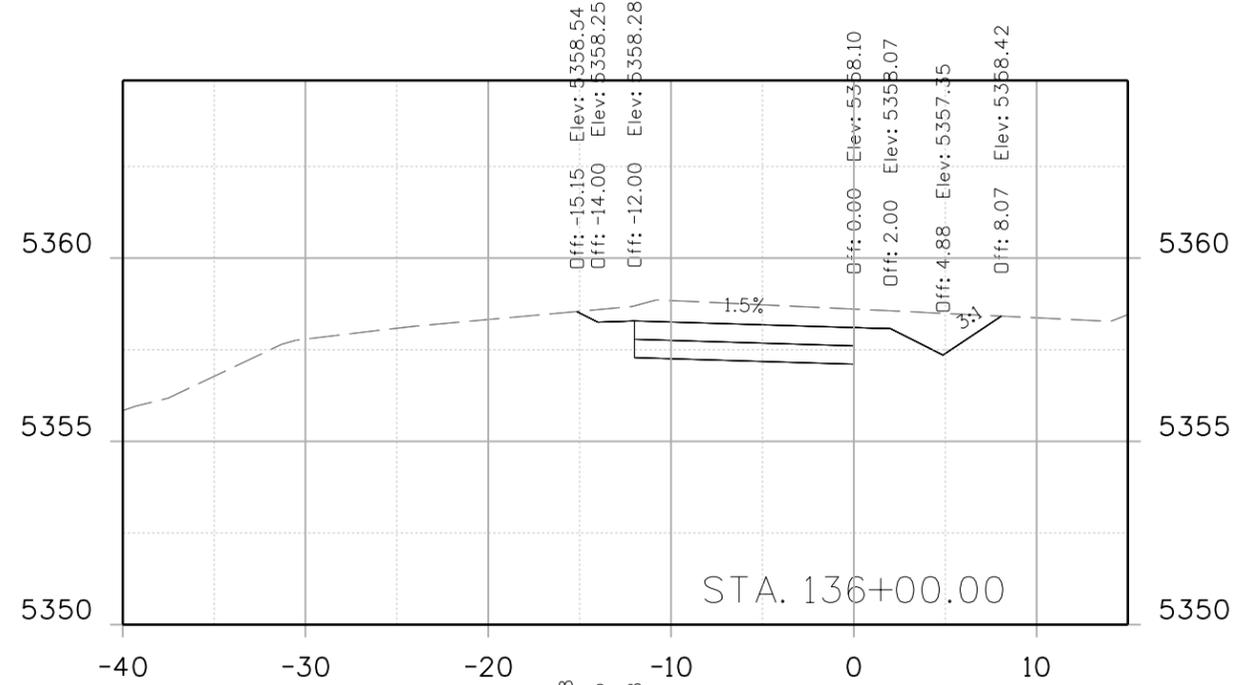
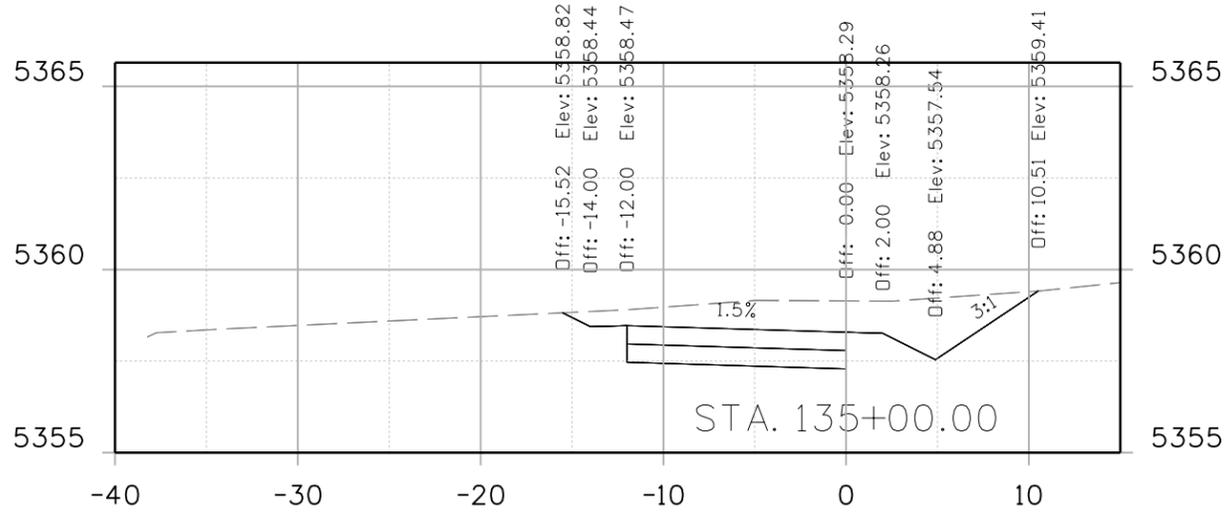
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No Revisions:  
Revised:  
Void:

INDUSTRIAL LANE BIKEWAY PHASE 2  
CROSS SECTION  
Designer: Z. CRIMMINS  
Detailer: Z. CRIMMINS  
Sheet Subset: XSEC  
Subset Sheets: 20 of 36

Project No./Code  
STU M145-013  
23593  
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Sheet Revisions		
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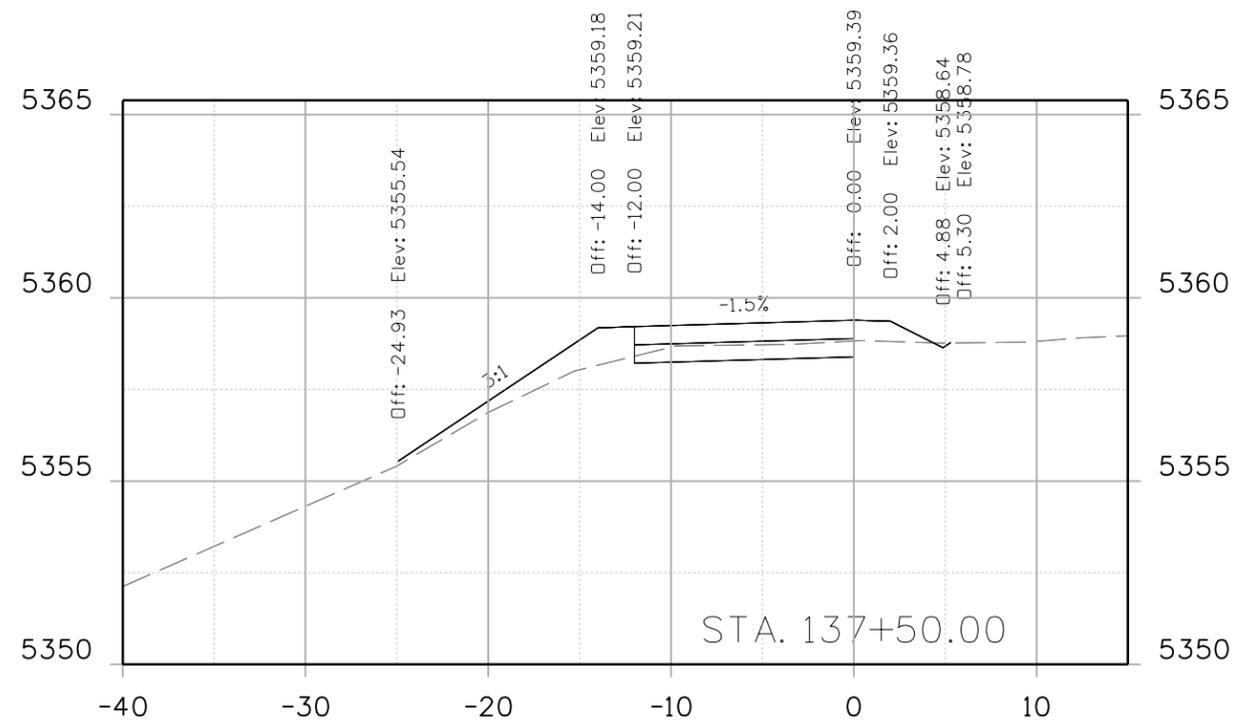
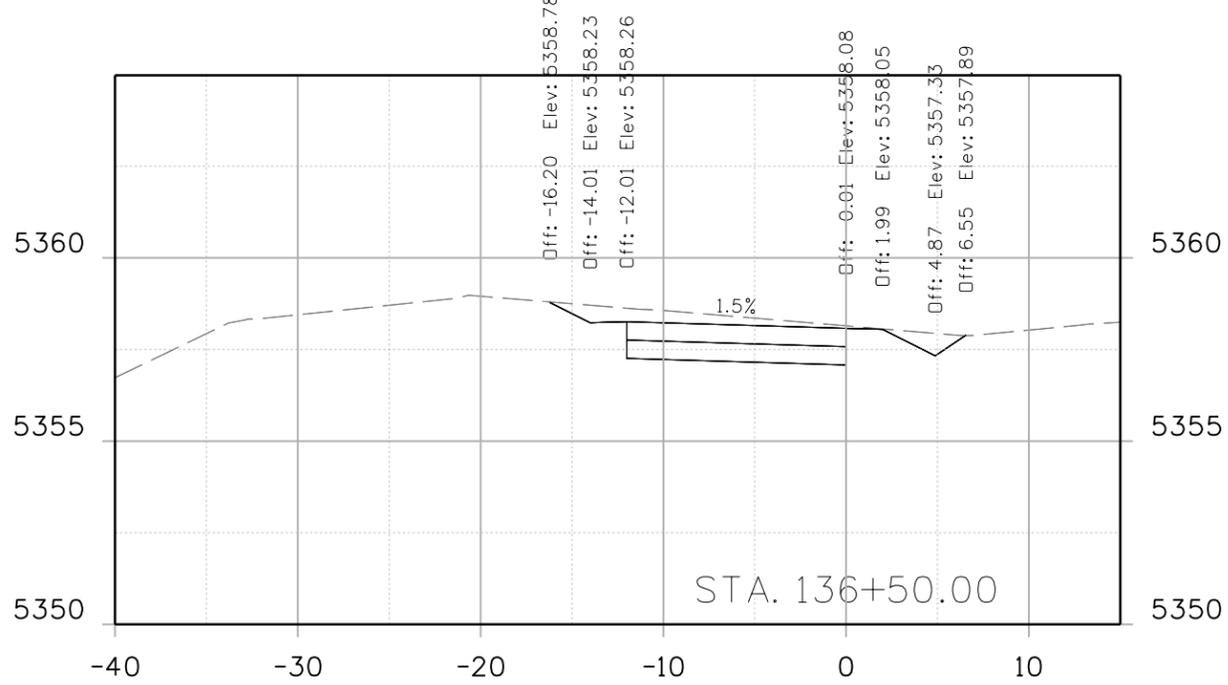
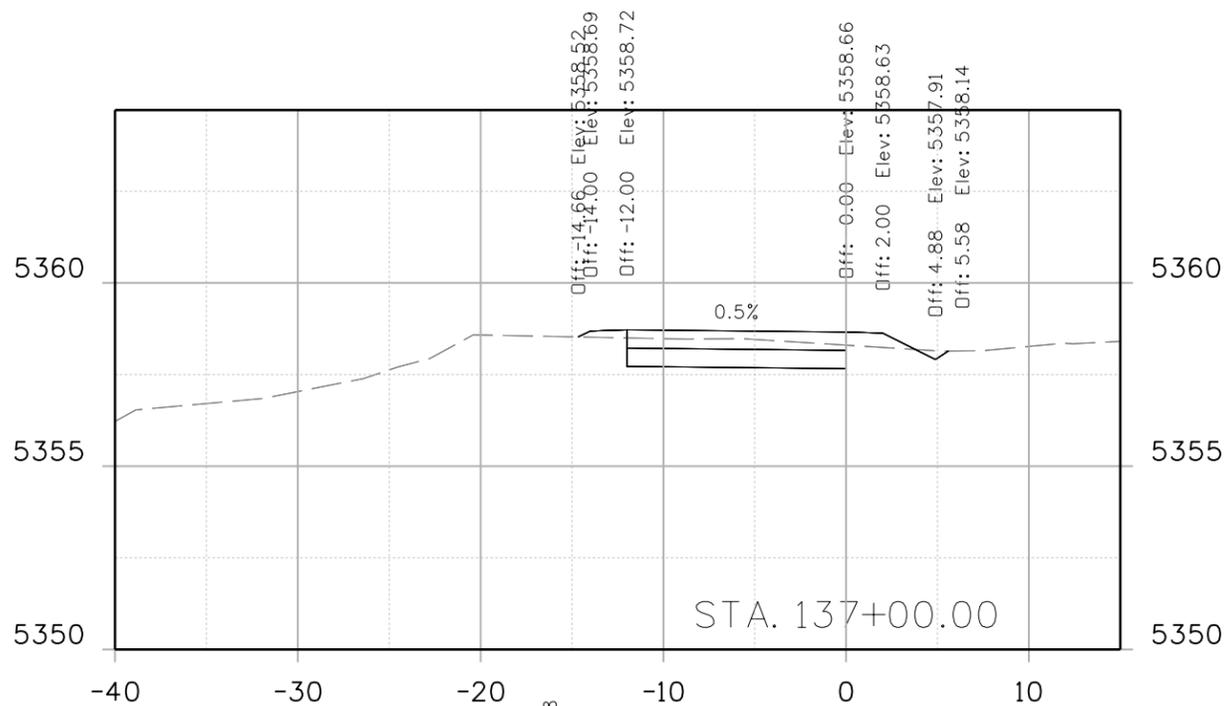
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION**

Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 21 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **170**

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Date:	Comments	Init.



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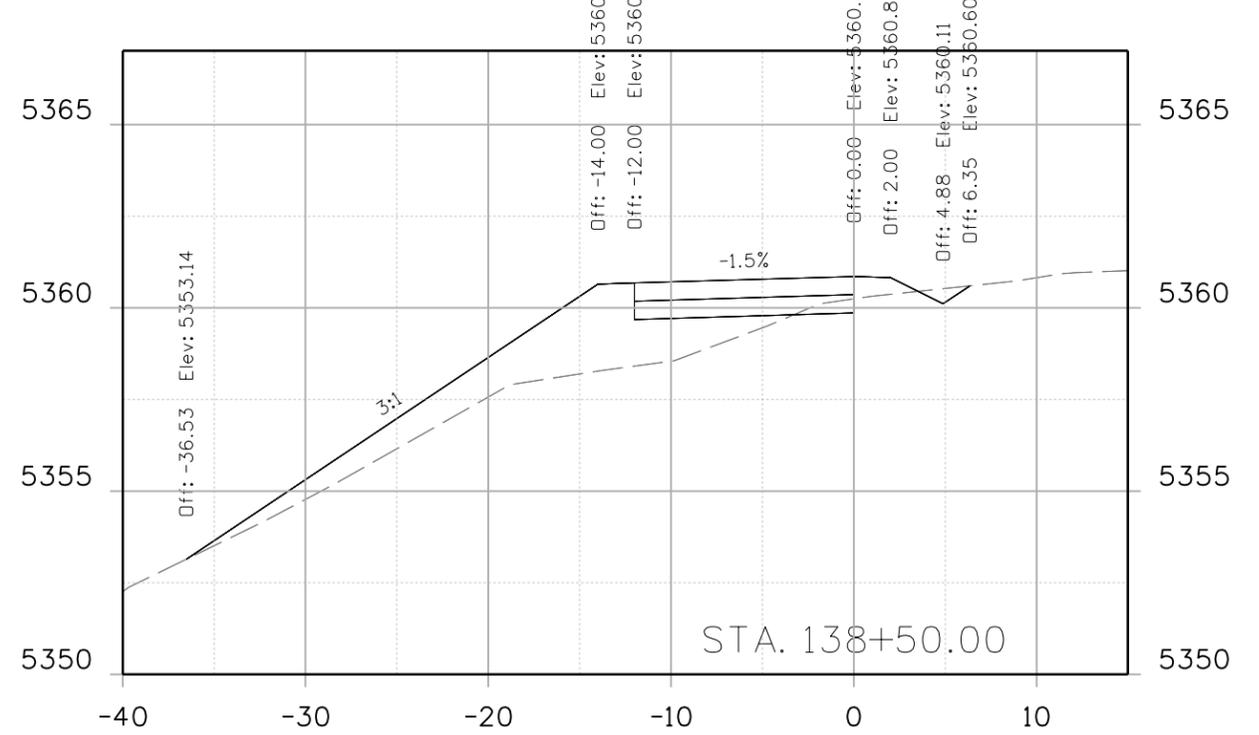
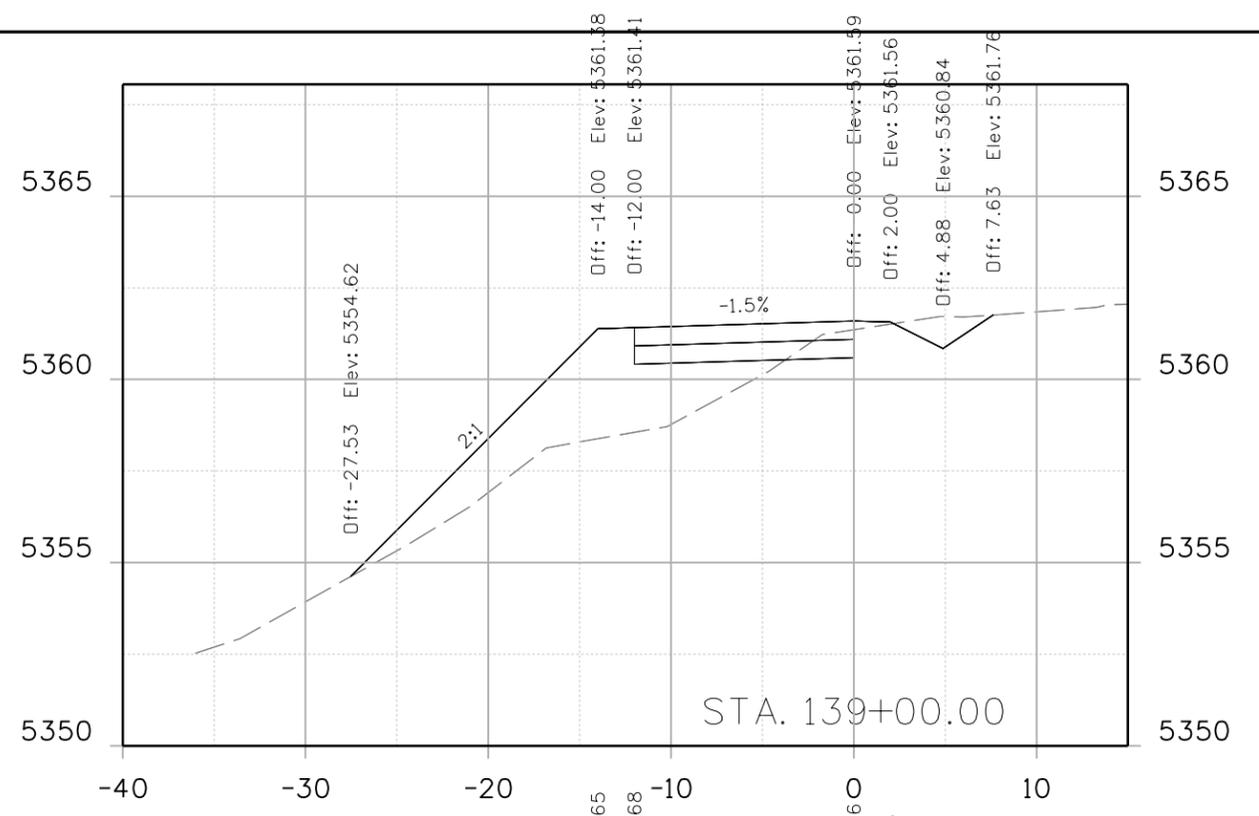
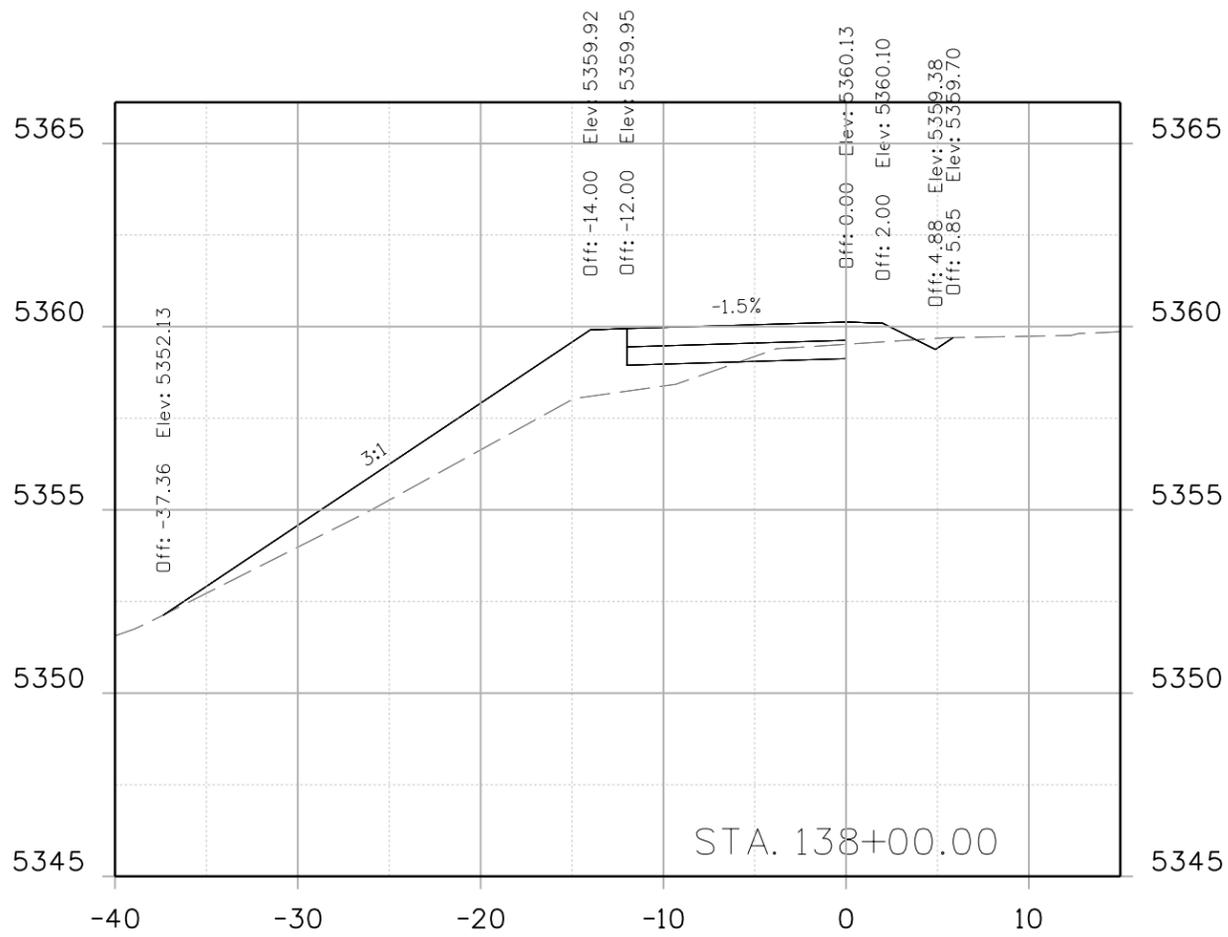
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION**

Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 22 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **171**



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Print Date: 6/4/2024  
 File Name: 30322\_X-SECS.dgn  
 Horiz. Scale: Vert. Scale: As Noted

Unit Information

**Stanley Consultants Inc.**  
 8000 South Chester Street  
 Suite 500  
 Centennial, CO 80112  
 Phone: 303-799-6806

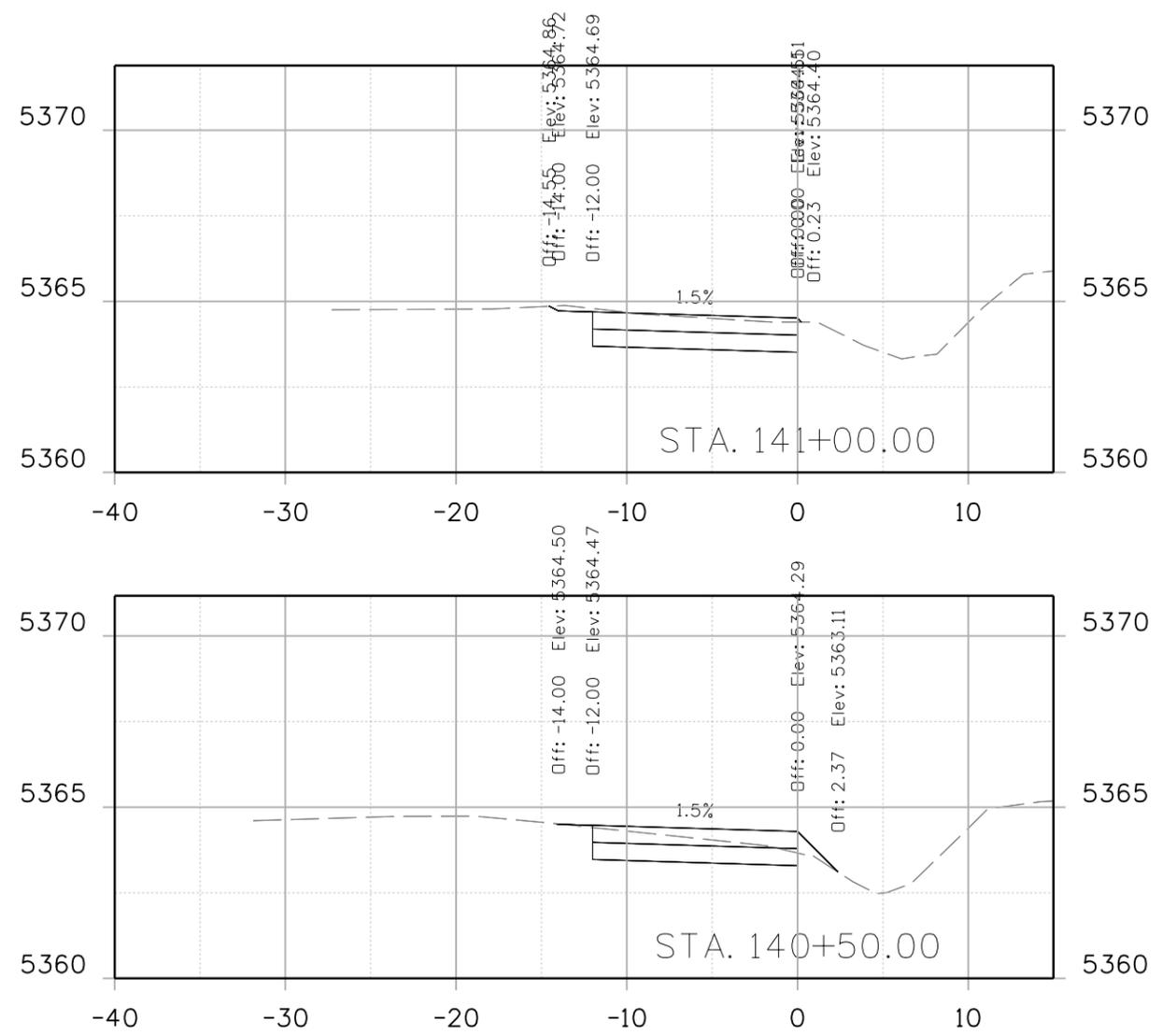
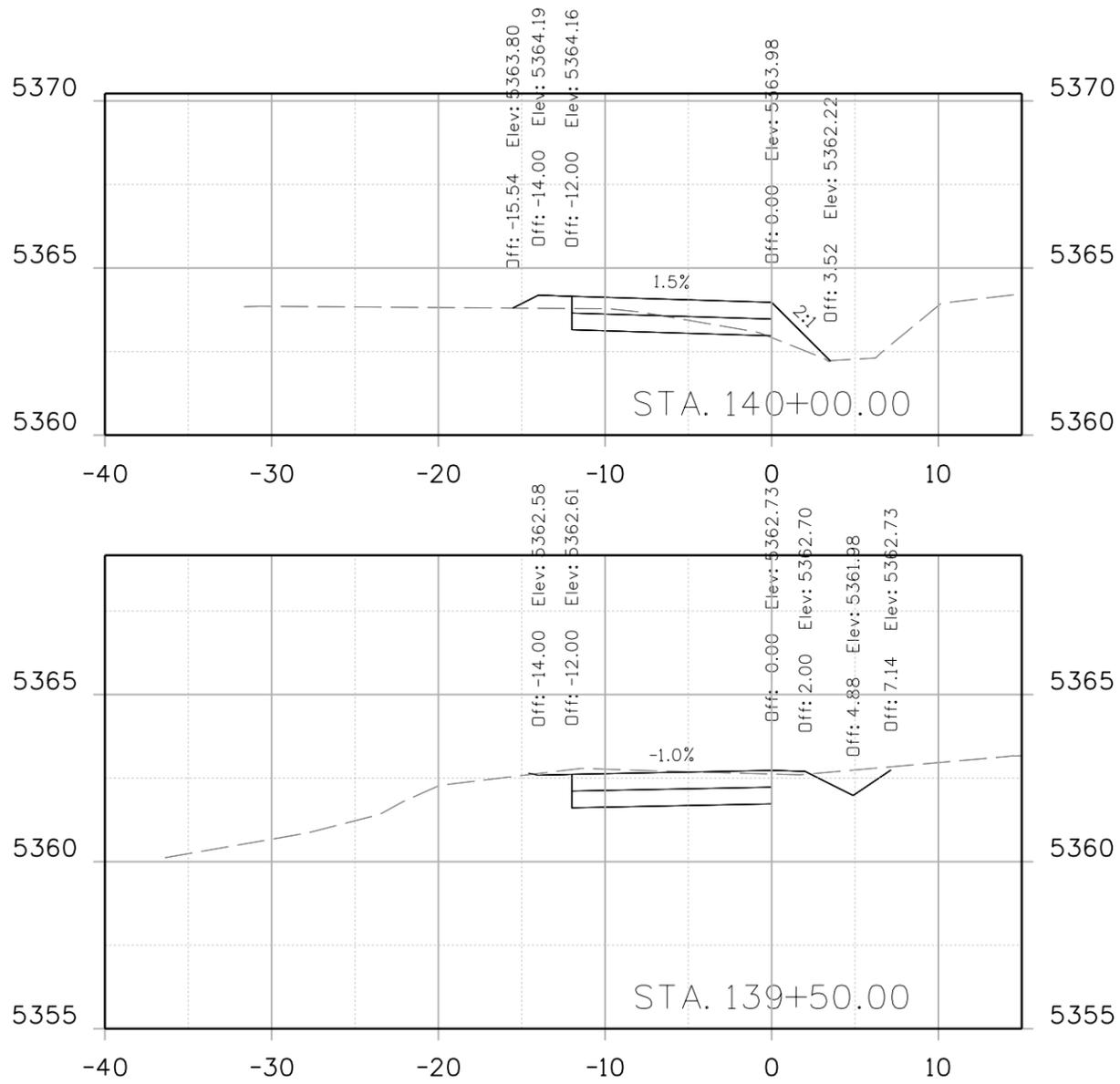
Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed		INDUSTRIAL LANE BIKEWAY PHASE 2 CROSS SECTION		Project No./Code
No Revisions:				STU M145-013
Revised:		Designer: Z. CRIMMINS	Checker:	23593
Void:		Detailer: Z. CRIMMINS		Sheet Number <b>172</b>
		Sheet Subset: XSEC	Subset Sheets: 23 of 36	



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 File Name: 30322\_X-SECS.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
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 8000 South Chester Street  
 Suite 500  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

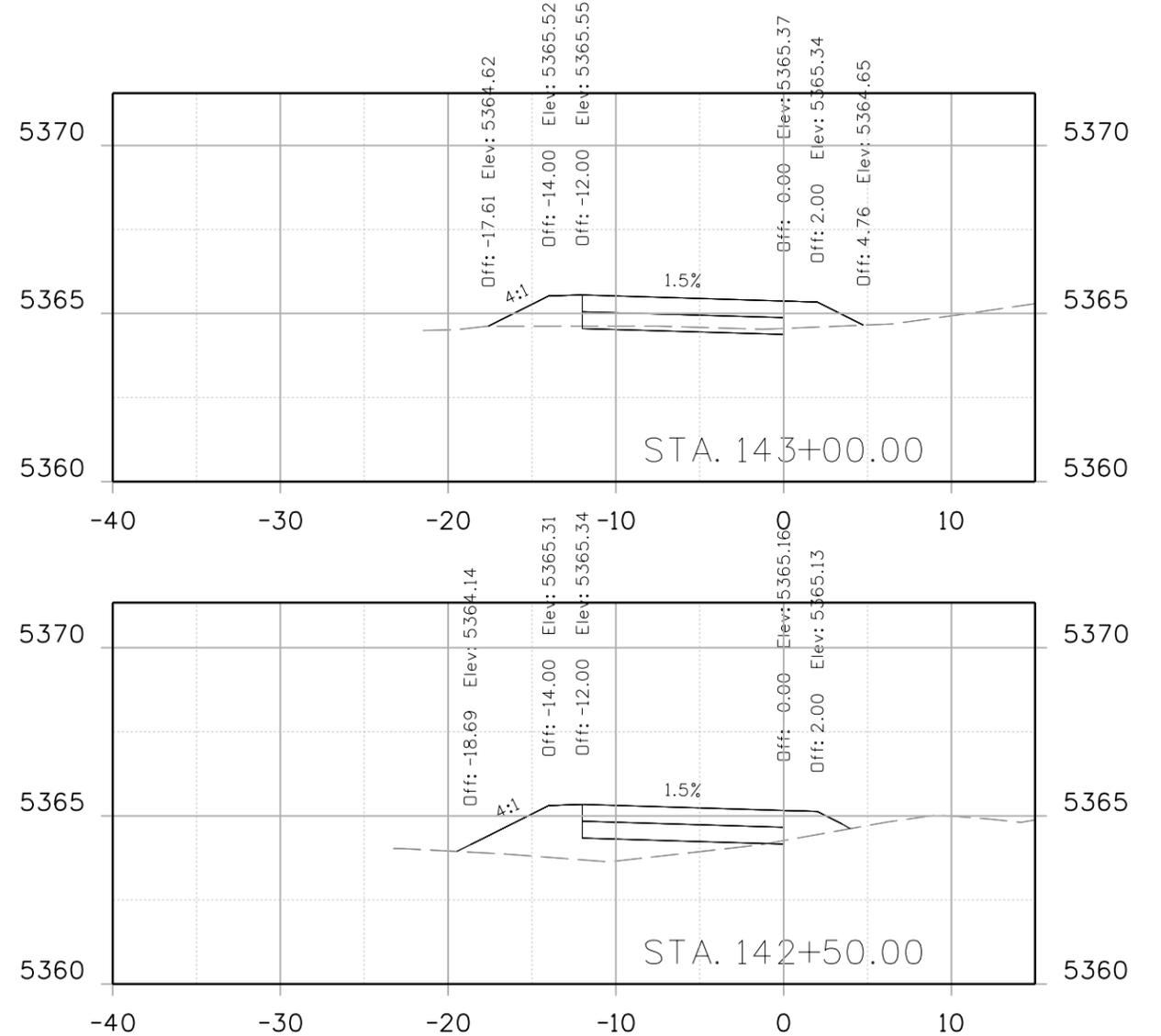
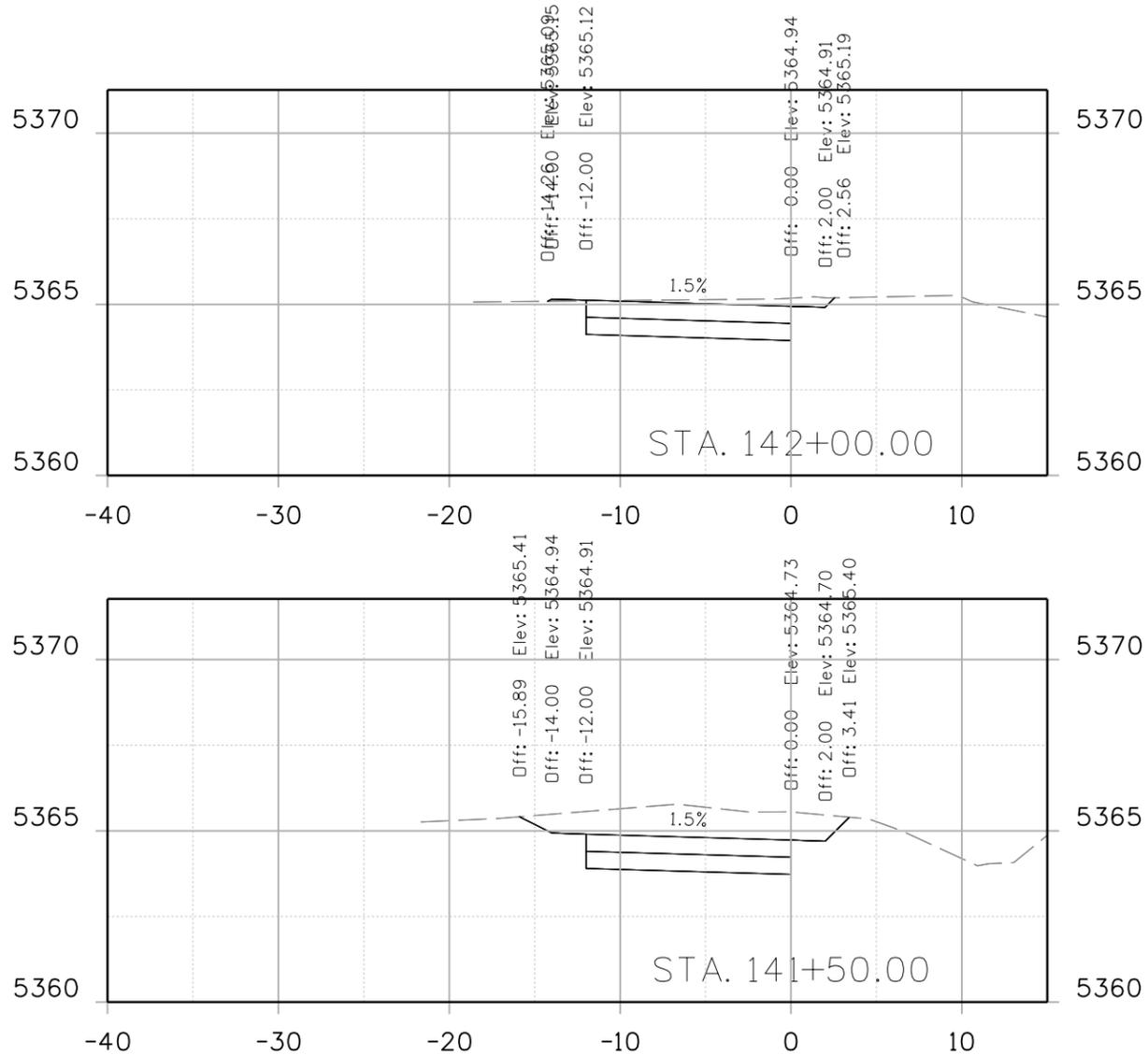
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION**

Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 24 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **173**

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 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
  
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 Suite 500  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

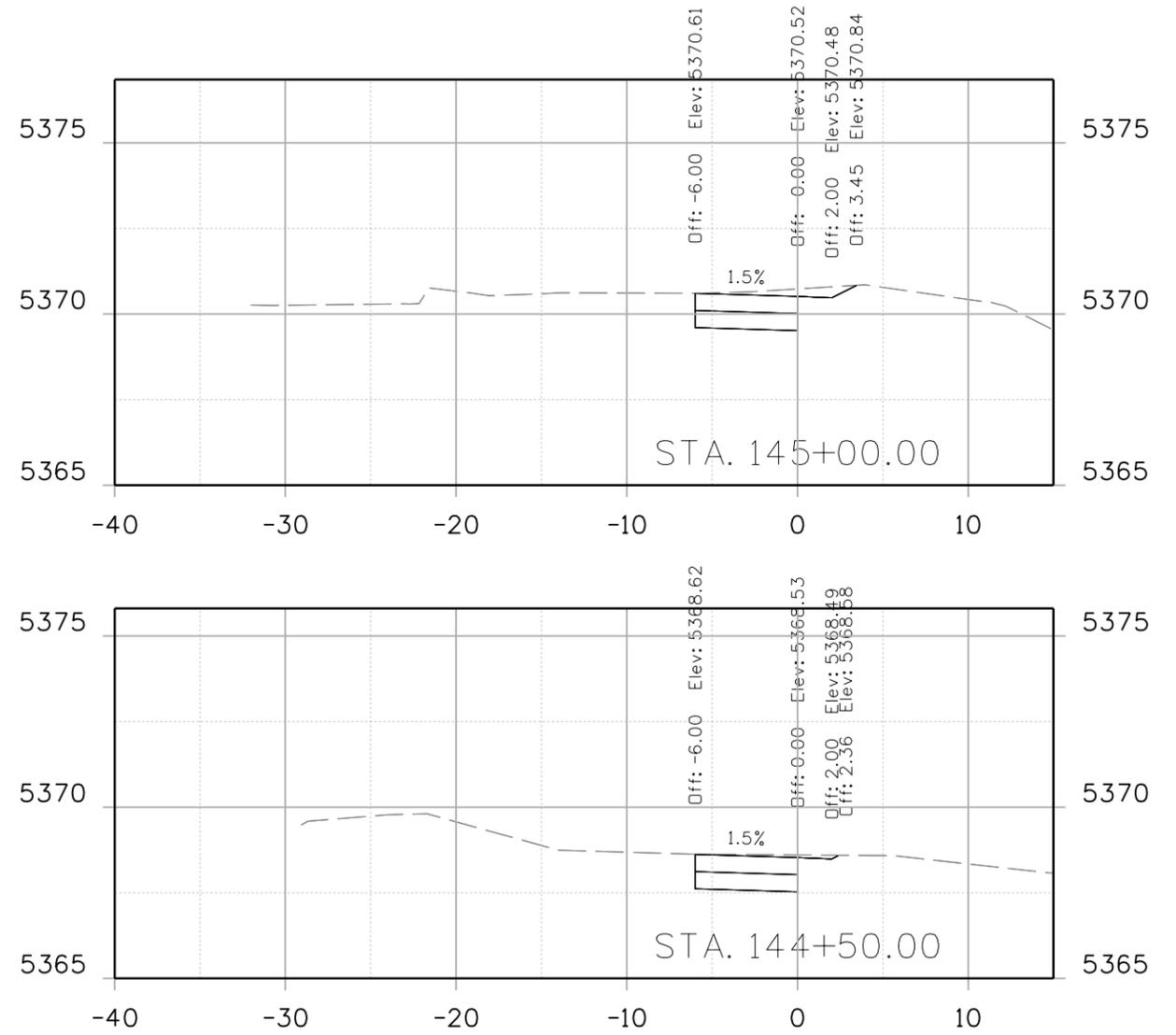
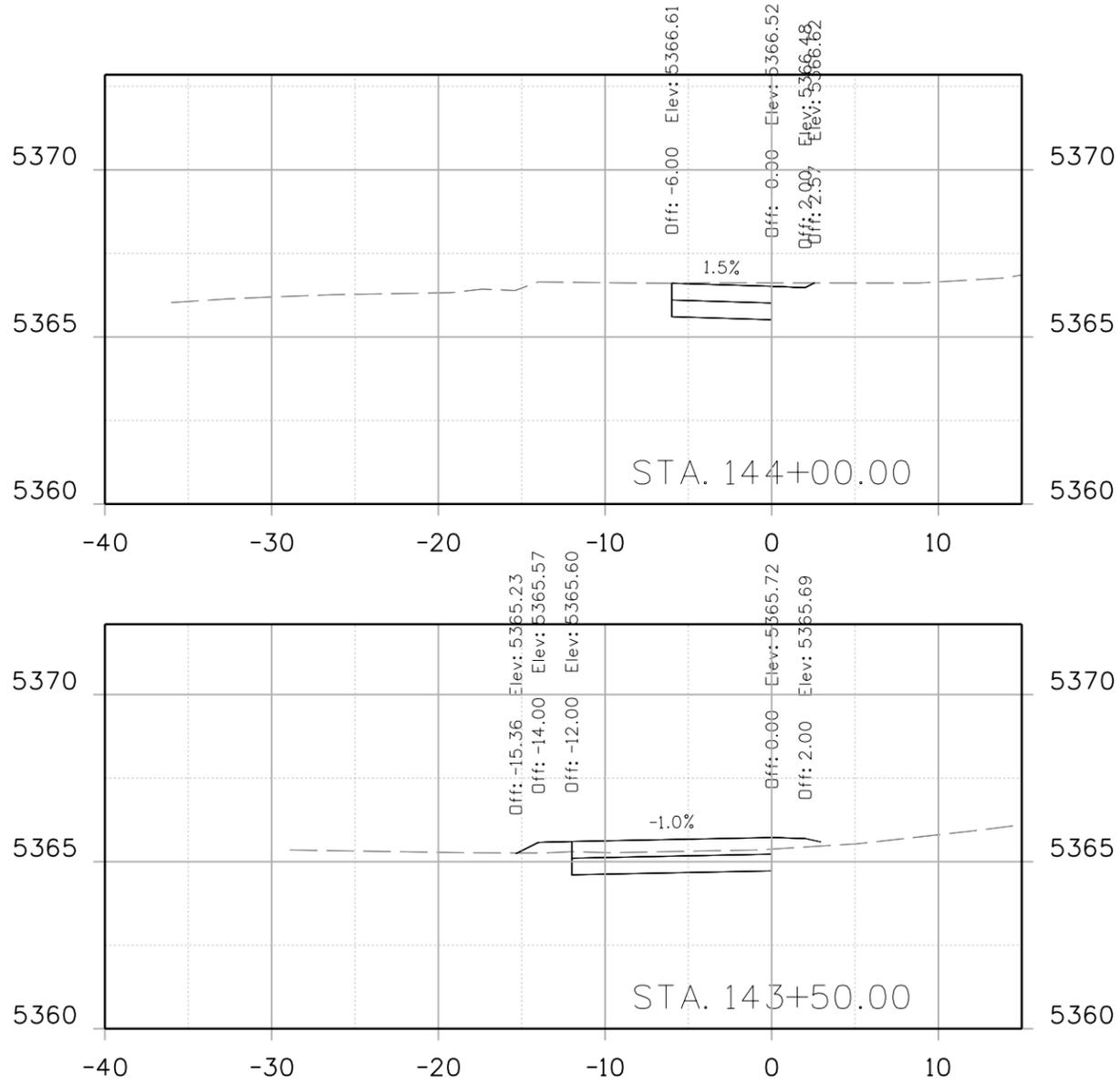
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION**

Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 25 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **174**

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 Horiz. Scale: Vert. Scale: As Noted  
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 8000 South Chester Street  
 Suite 500  
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Date:	Comments	Init.



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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

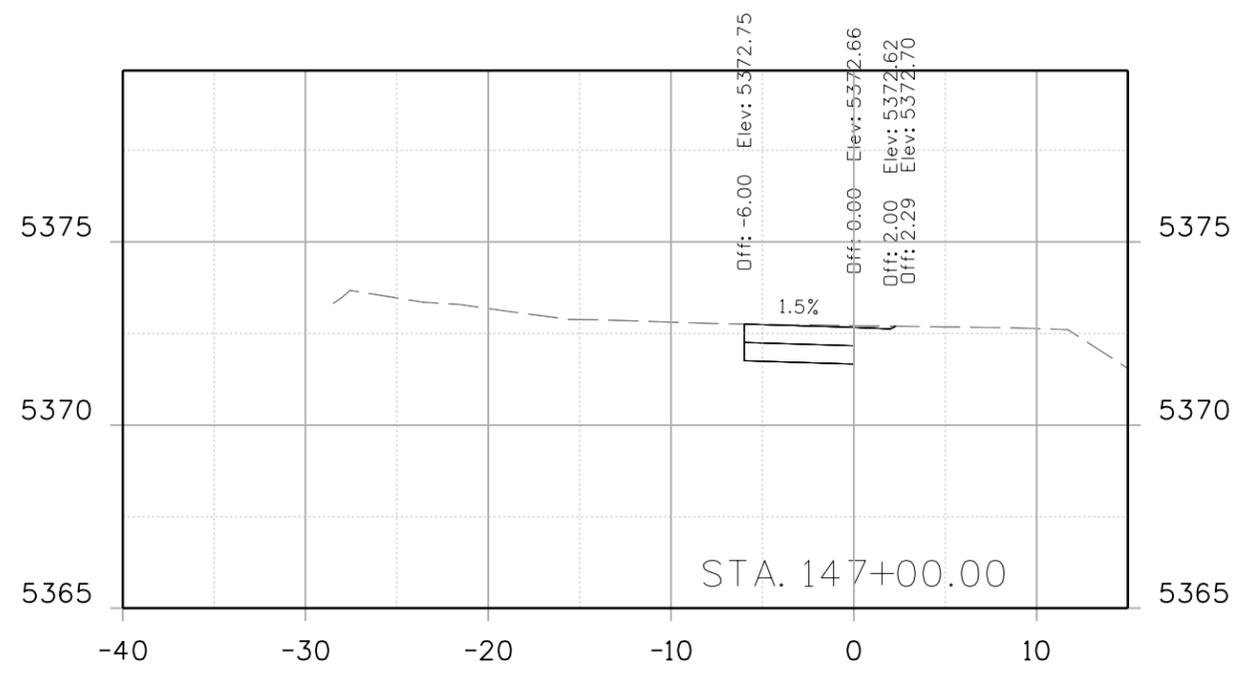
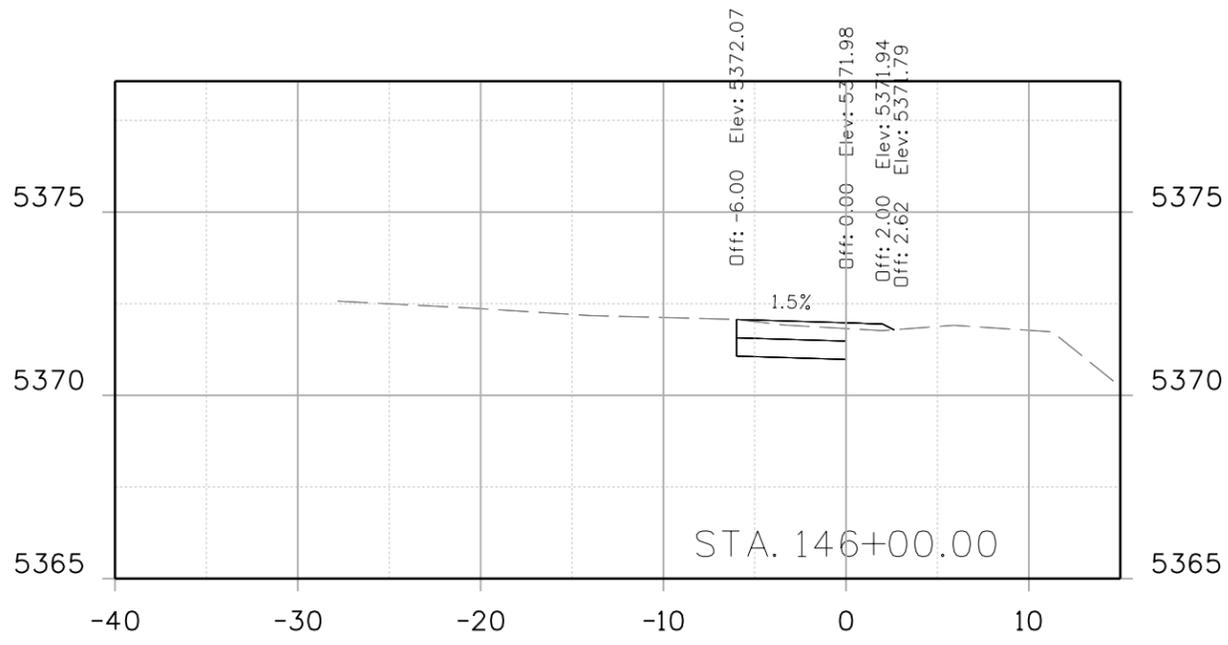
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
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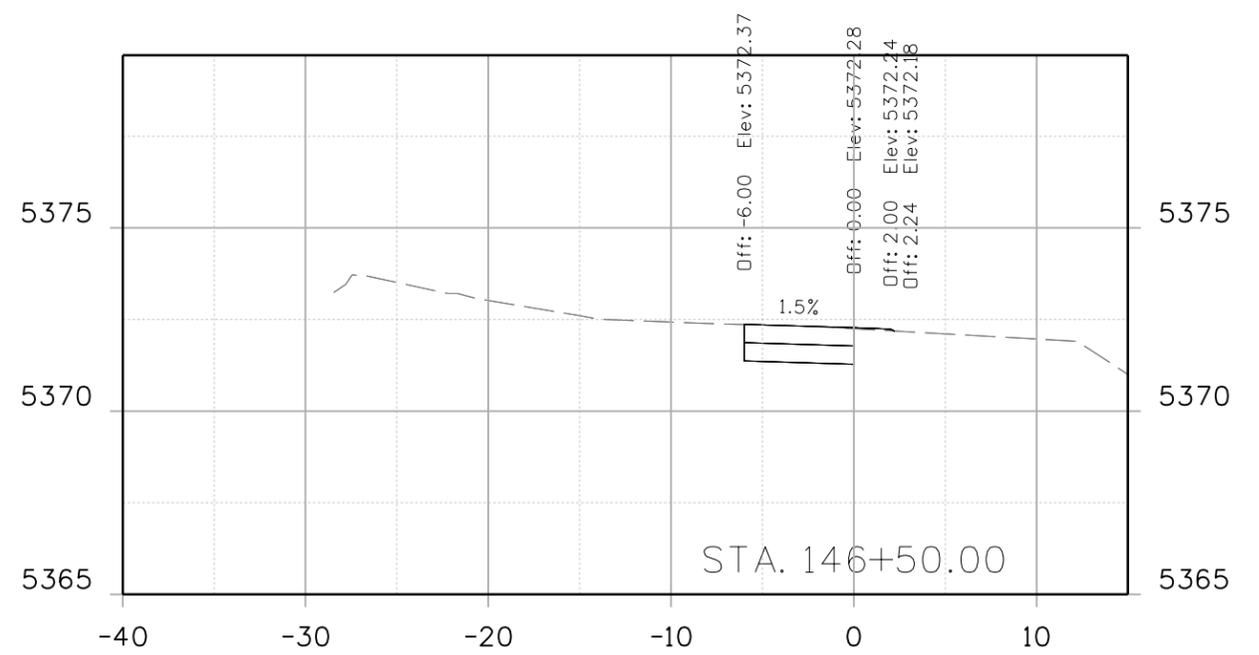
Designer: Z. CRIMMINS  
 Checker:  
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Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **175**

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Sheet Revisions		
Date:	Comments	Init.



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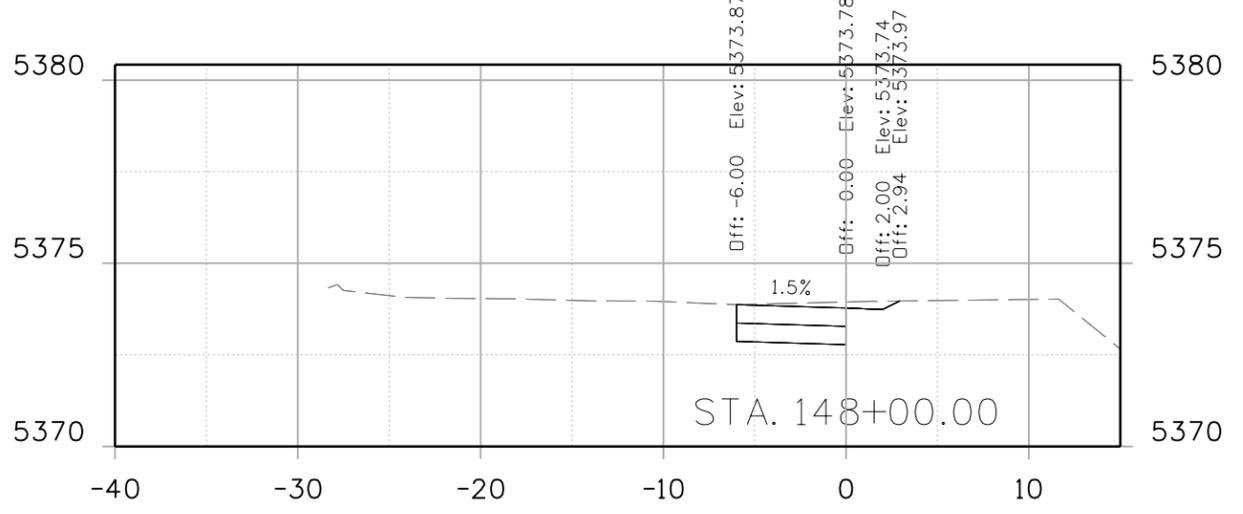
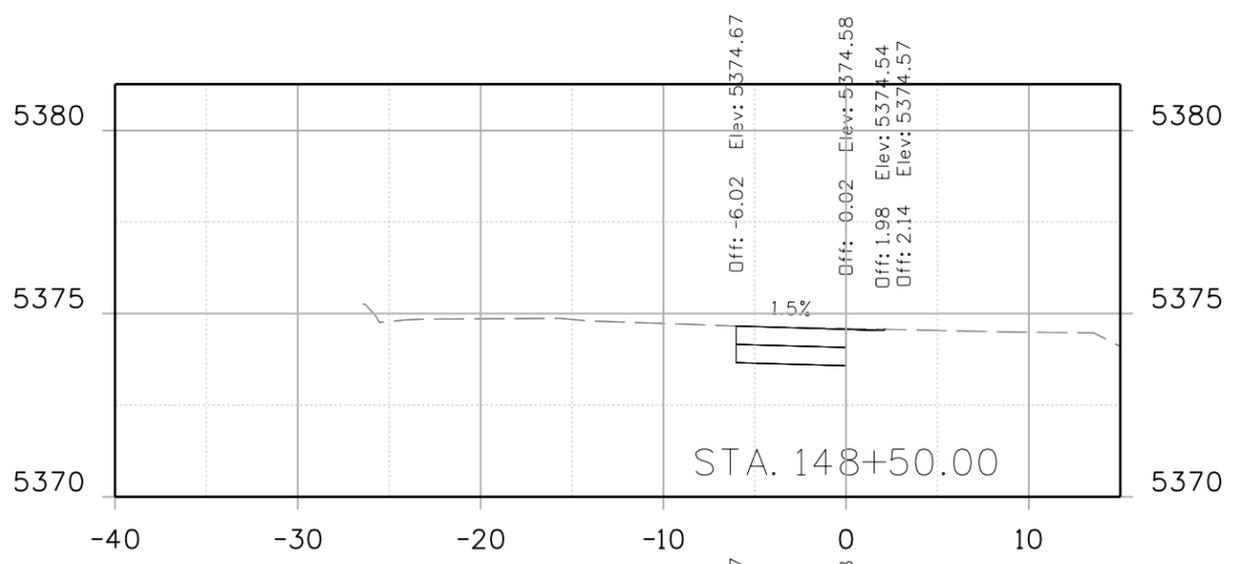
CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

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No Revisions:	CROSS SECTION
Revised:	
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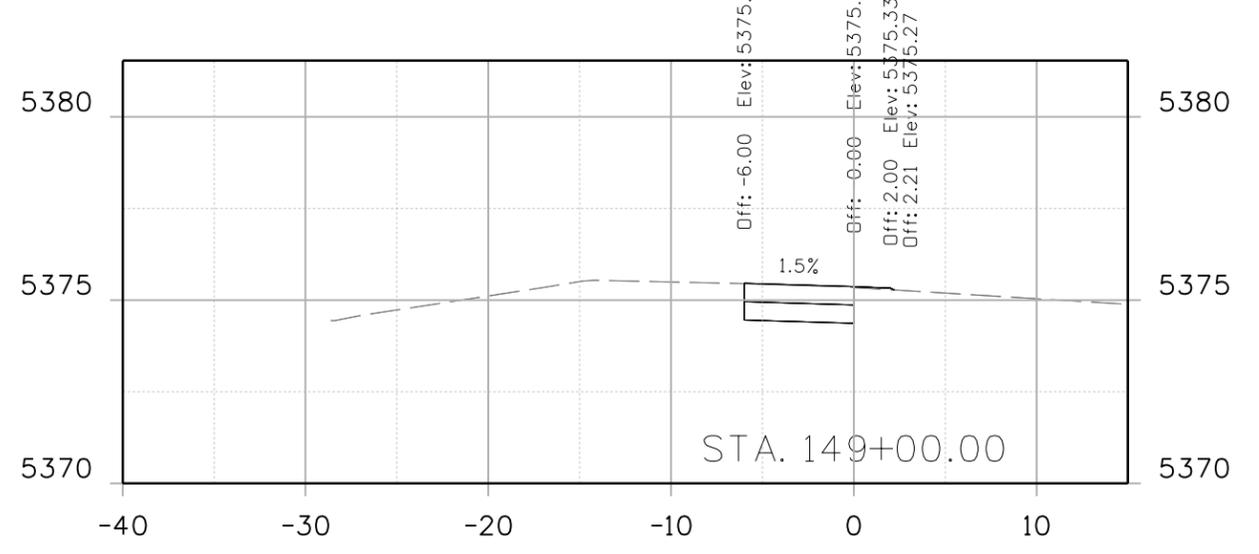
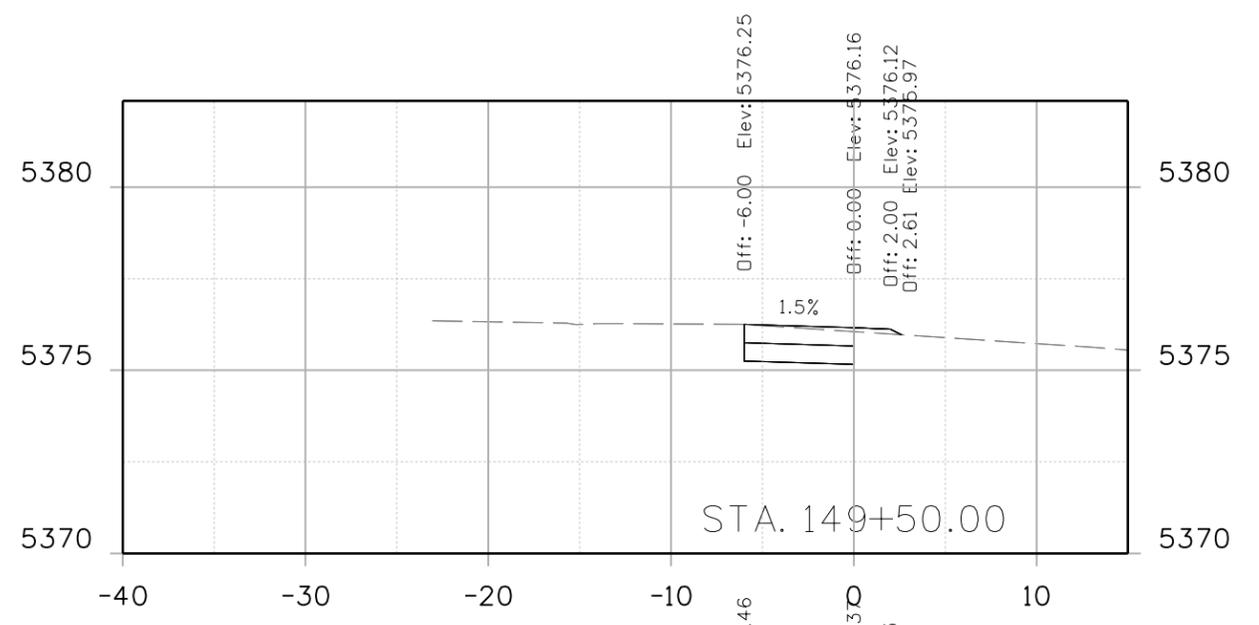
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Detailer:	Z. CRIMMINS		
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Project No./Code	STU M145-013
	23593
Sheet Number	176

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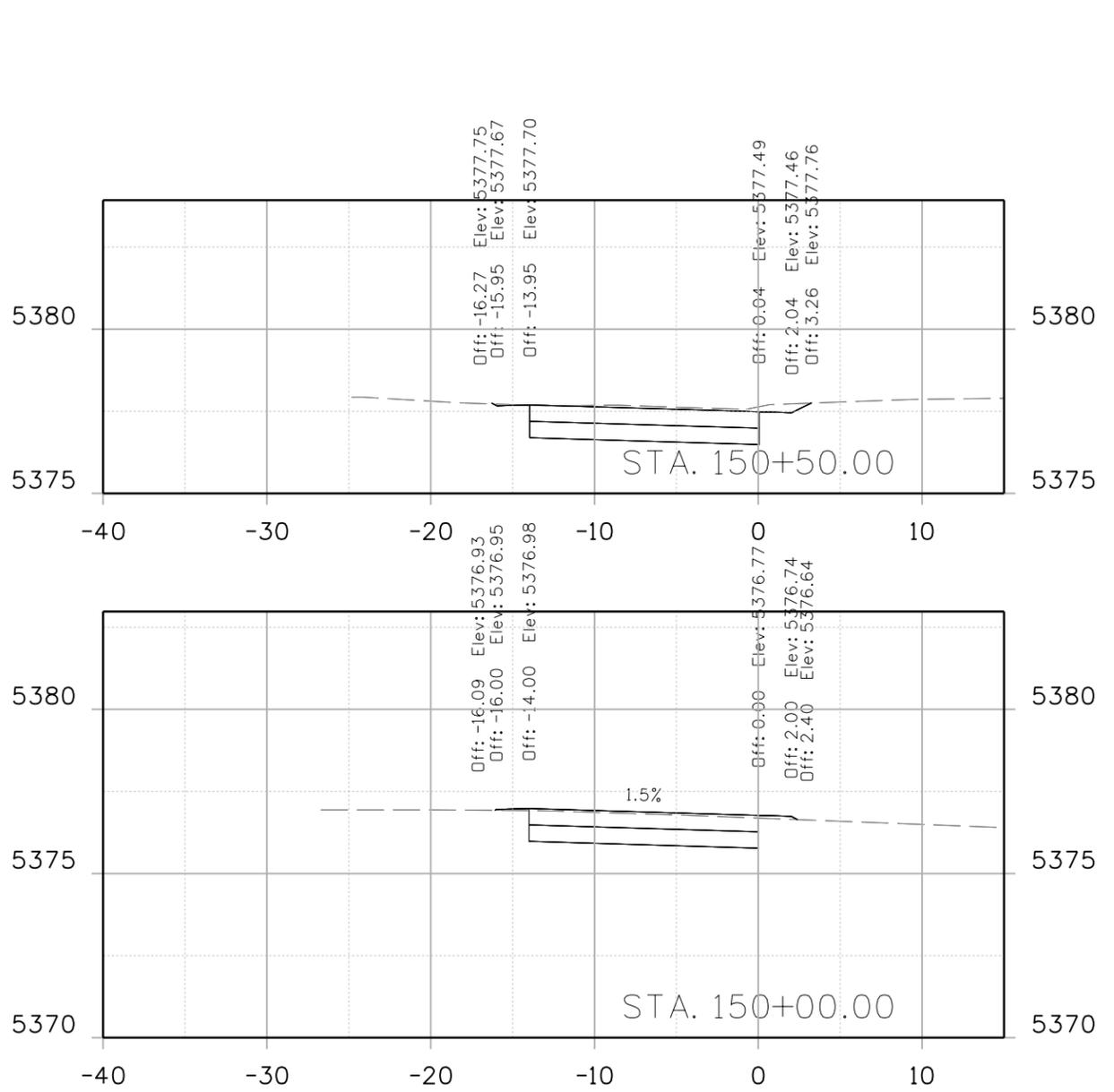
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Revised:
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Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	28 of 36

Project No./Code	STU M145-013
	23593
Sheet Number	177

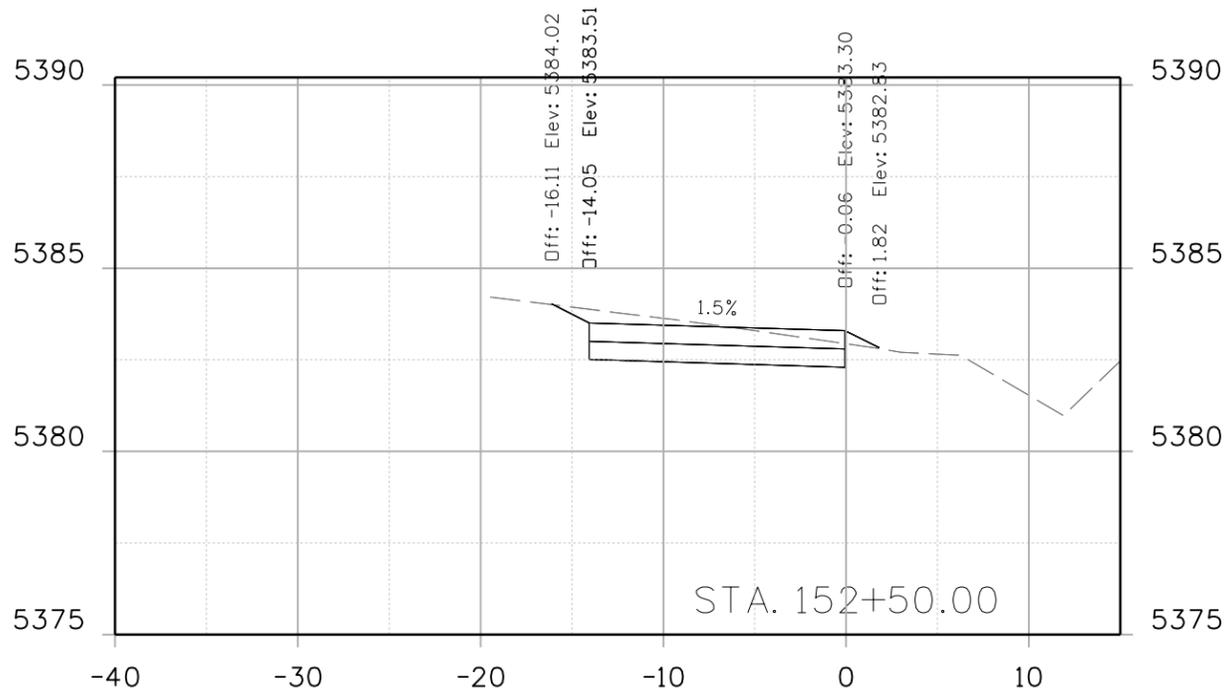
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SEE DRIVEWAY 4 DETAIL

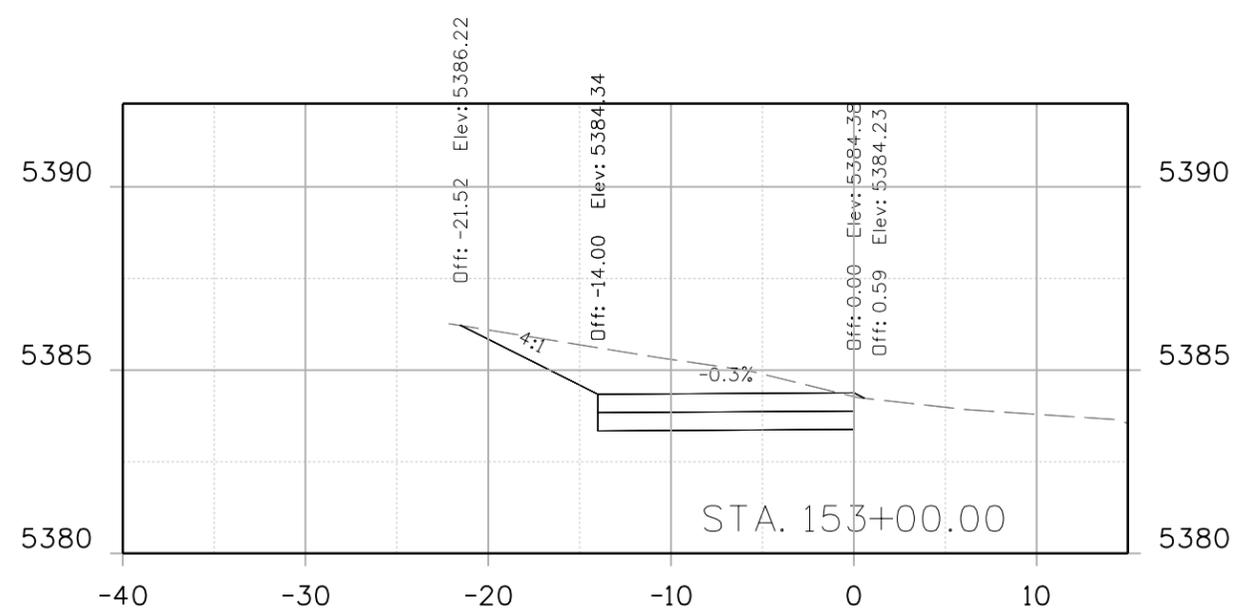
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	Horiz. Scale: _____ Vert. Scale: As Noted	Date: _____	Comments: _____	Init.: _____			No Revisions: _____	Designer: Z. CRIMMINS	Checker: _____	23593		
	Unit Information 8000 South Chester Street Suite 500 Centennial, CO 80112 Phone: 303-799-6806	_____	_____	_____			Revised: _____	Detailer: Z. CRIMMINS	_____	23593		
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SEE DRIVEWAY 5 DETAIL

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SEE DRIVEWAY 6 DETAIL



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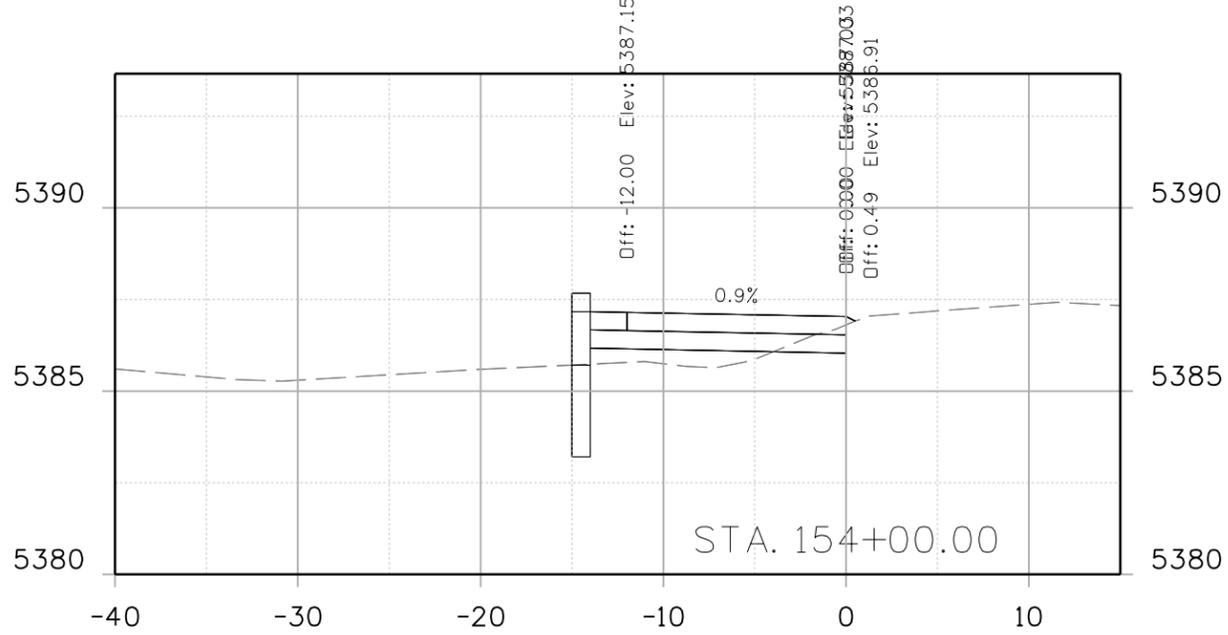
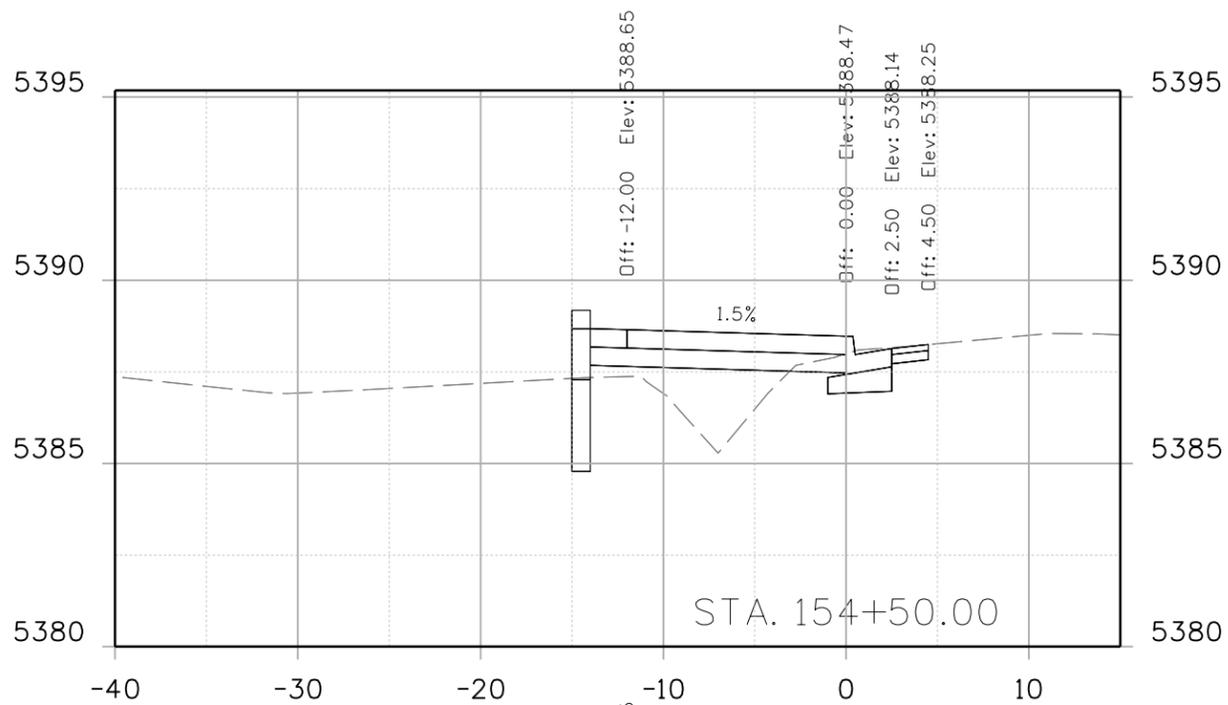
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As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2
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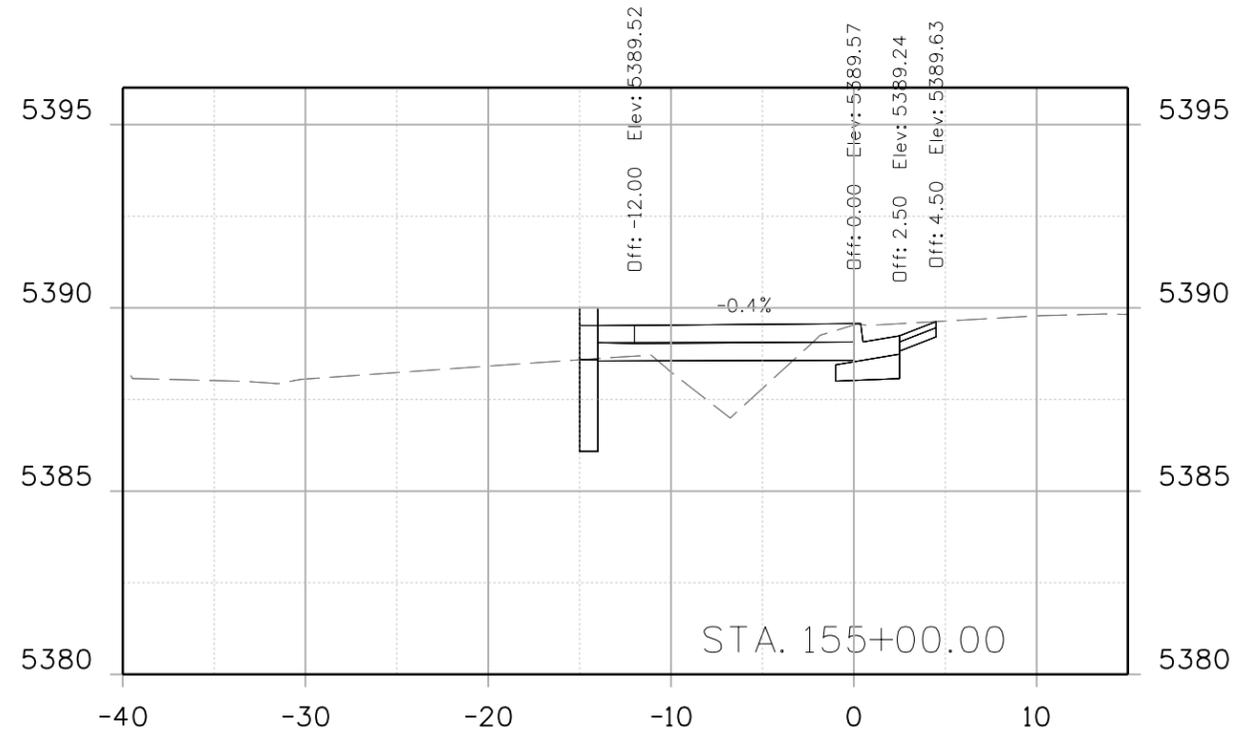
Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	30 of 36

Project No./Code	STU M145-013
	23593
Sheet Number	179

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Unit Information  
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8000 South Chester Street  
Suite 500  
Centennial, CO 80112  
Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



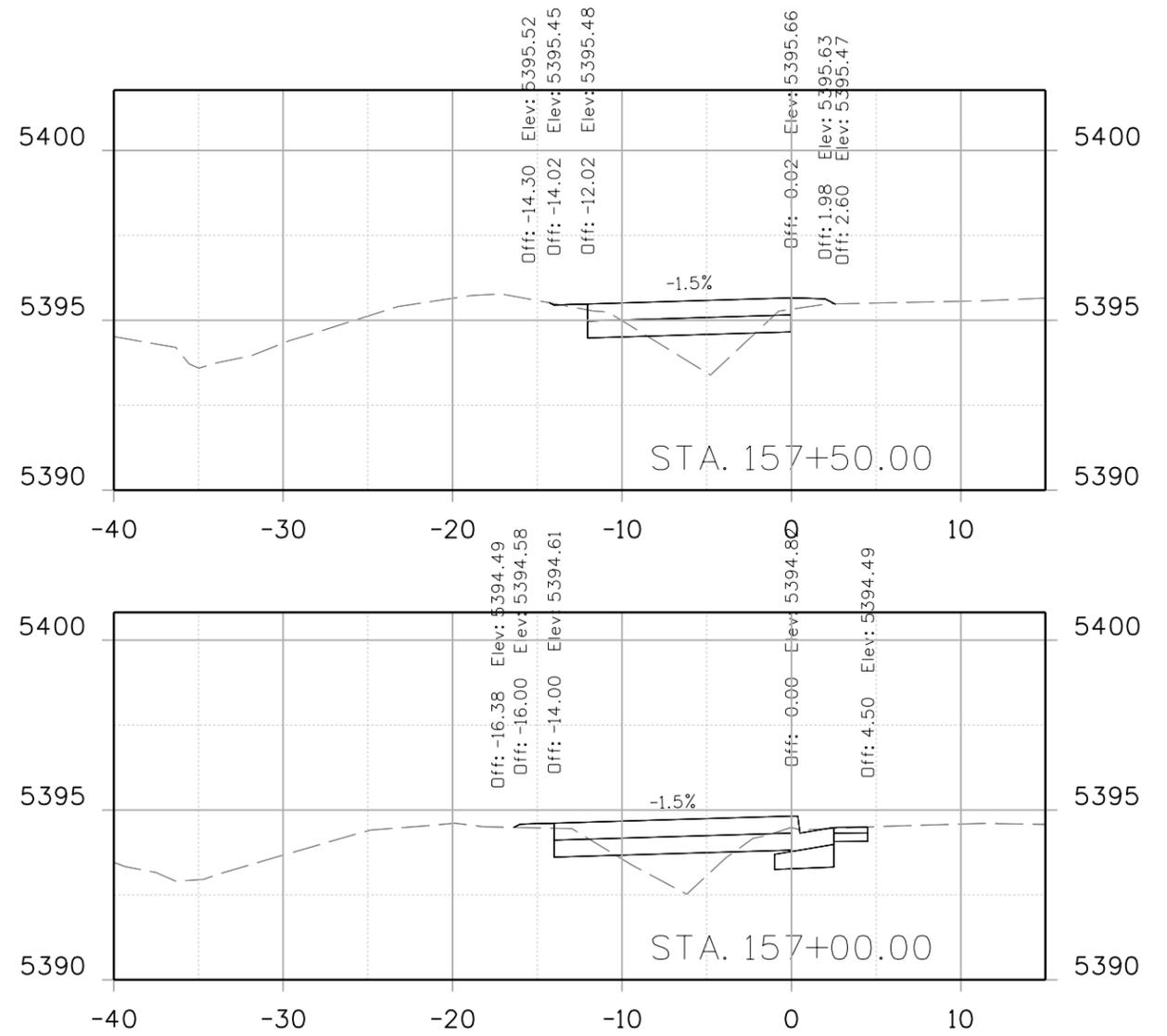
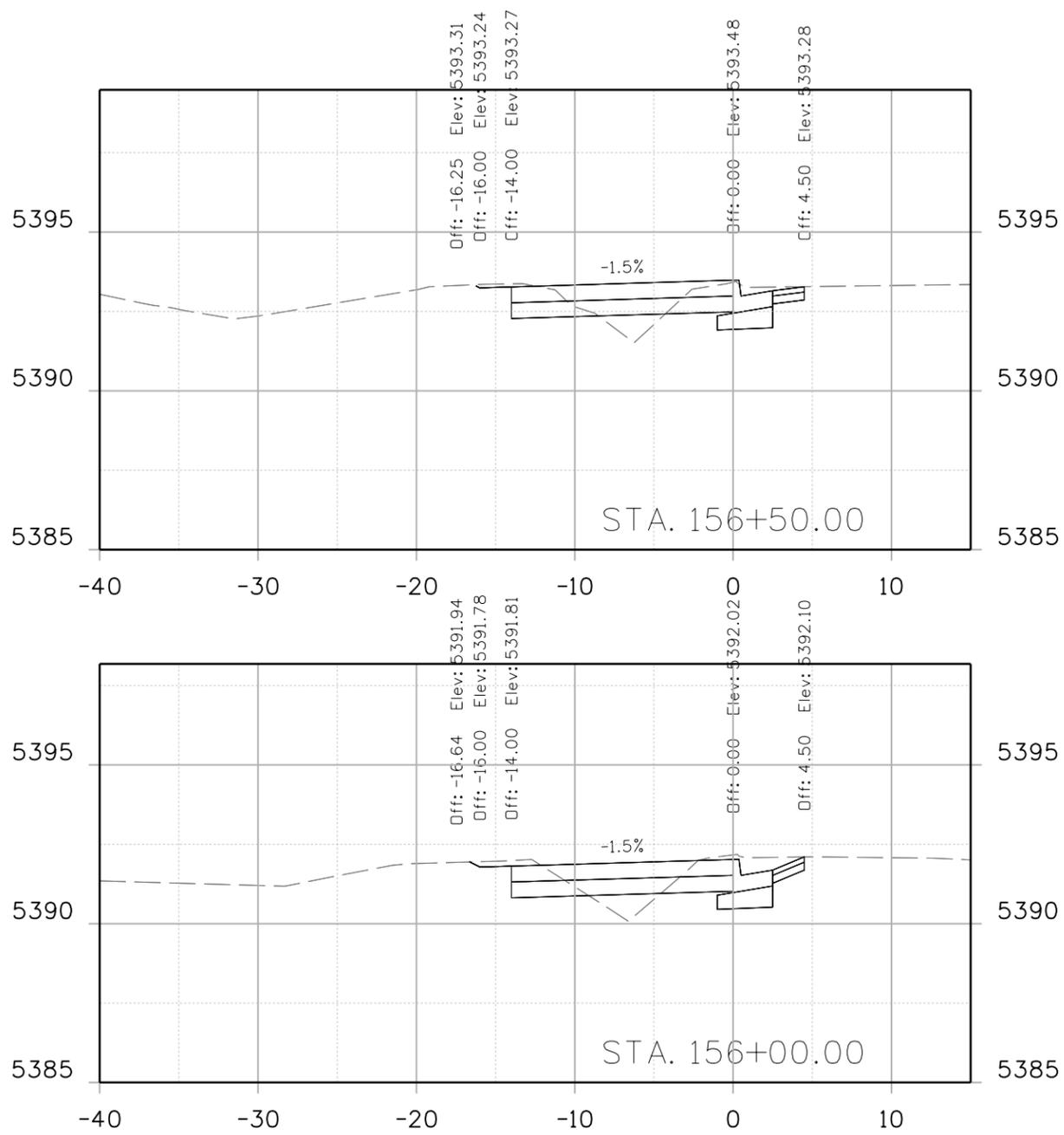
ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.  
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No Revisions:  
Revised:  
Void:

INDUSTRIAL LANE BIKEWAY PHASE 2  
CROSS SECTION  
Designer: Z. CRIMMINS  
Detailer: Z. CRIMMINS  
Sheet Subset: XSEC  
Checker:  
Subset Sheets: 31 of 36

Project No./Code  
STU M145-013  
23593  
Sheet Number 180

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 Suite 500  
 Centennial, CO 80112  
 Phone: 303-799-6806

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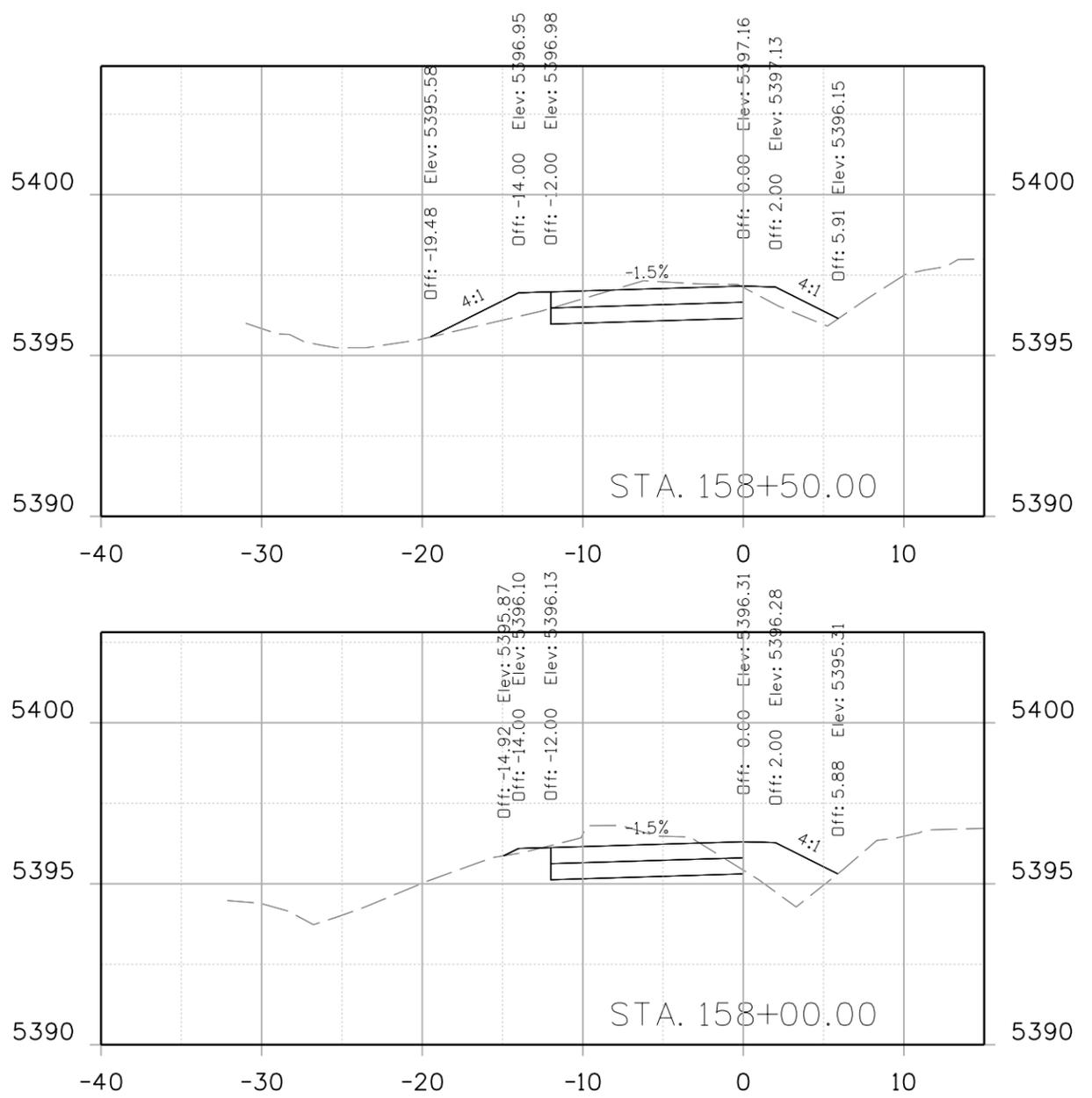
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
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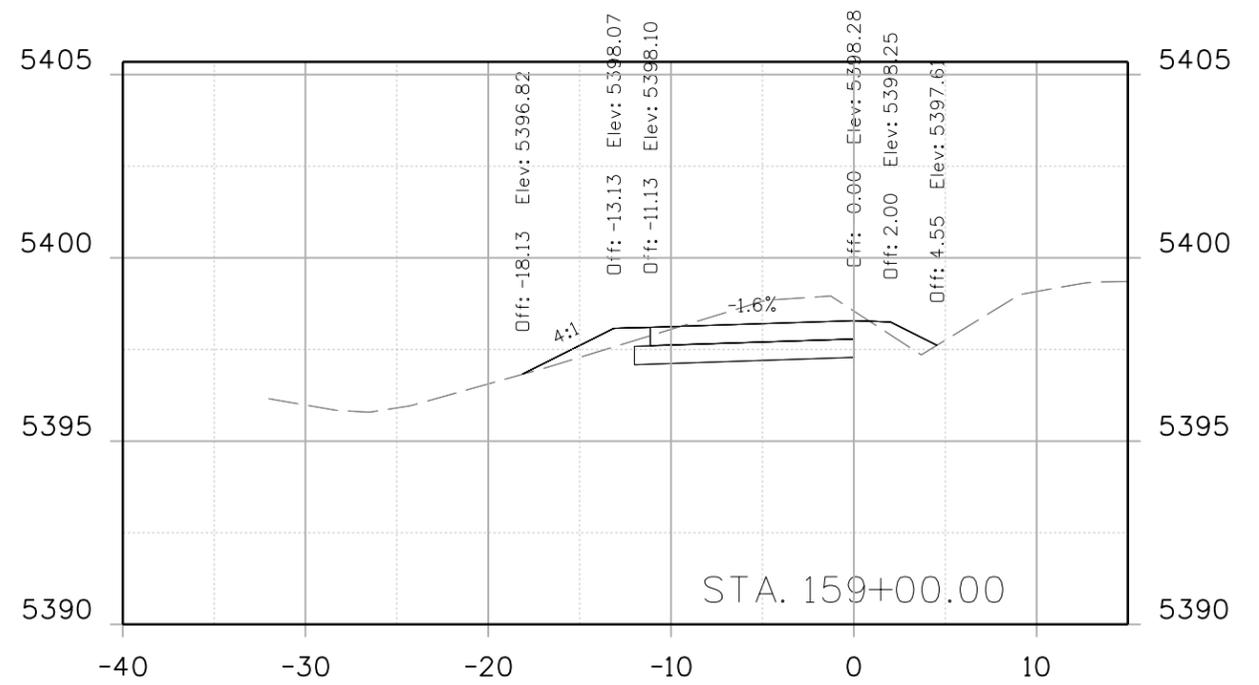
Designer: Z. CRIMMINS  
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Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **181**

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SEE DRIVEWAY 8 DETAIL



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Unit Information  
 8000 South Chester Street  
Suite 500  
Centennial, CO 80112  
Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



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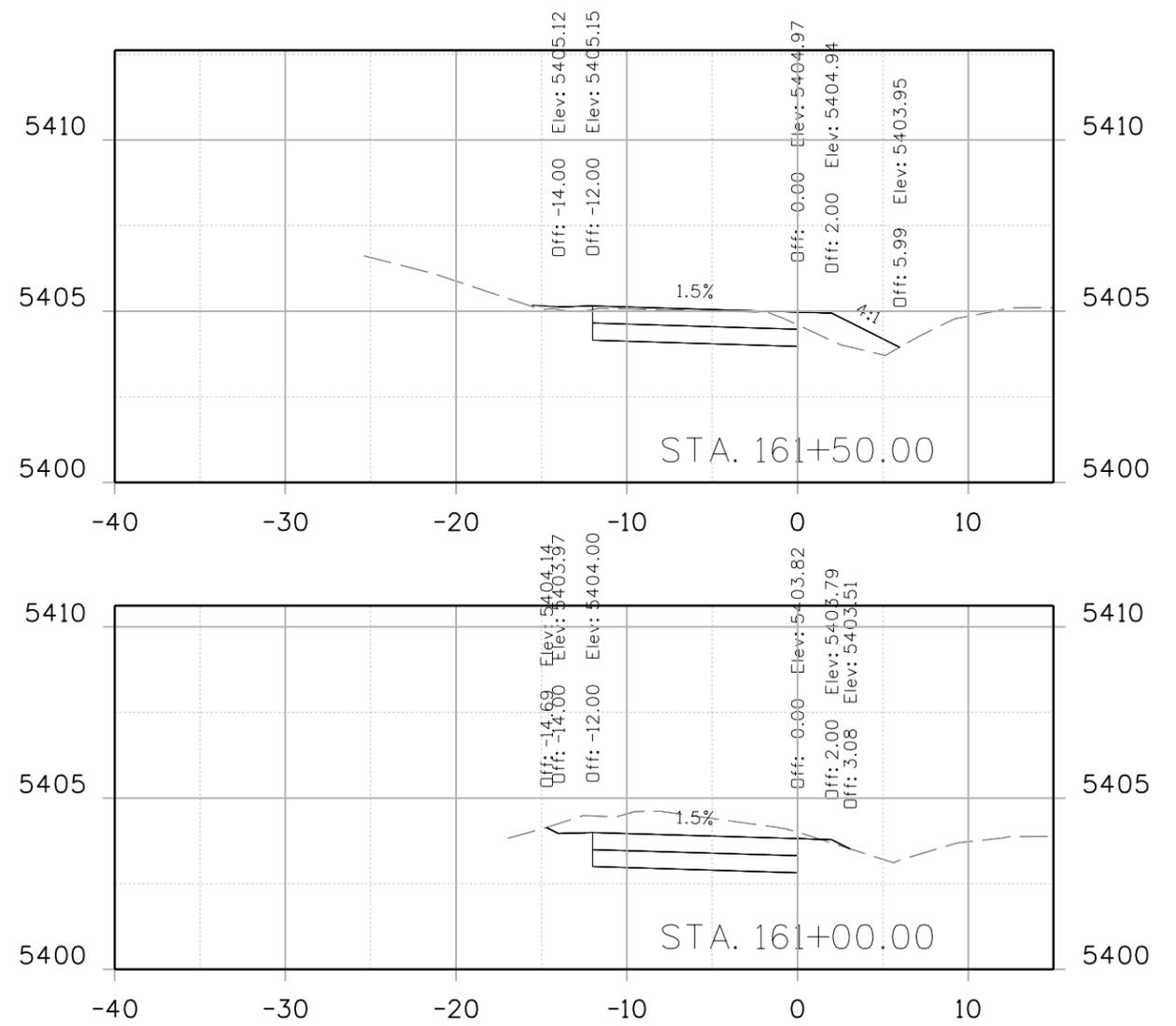
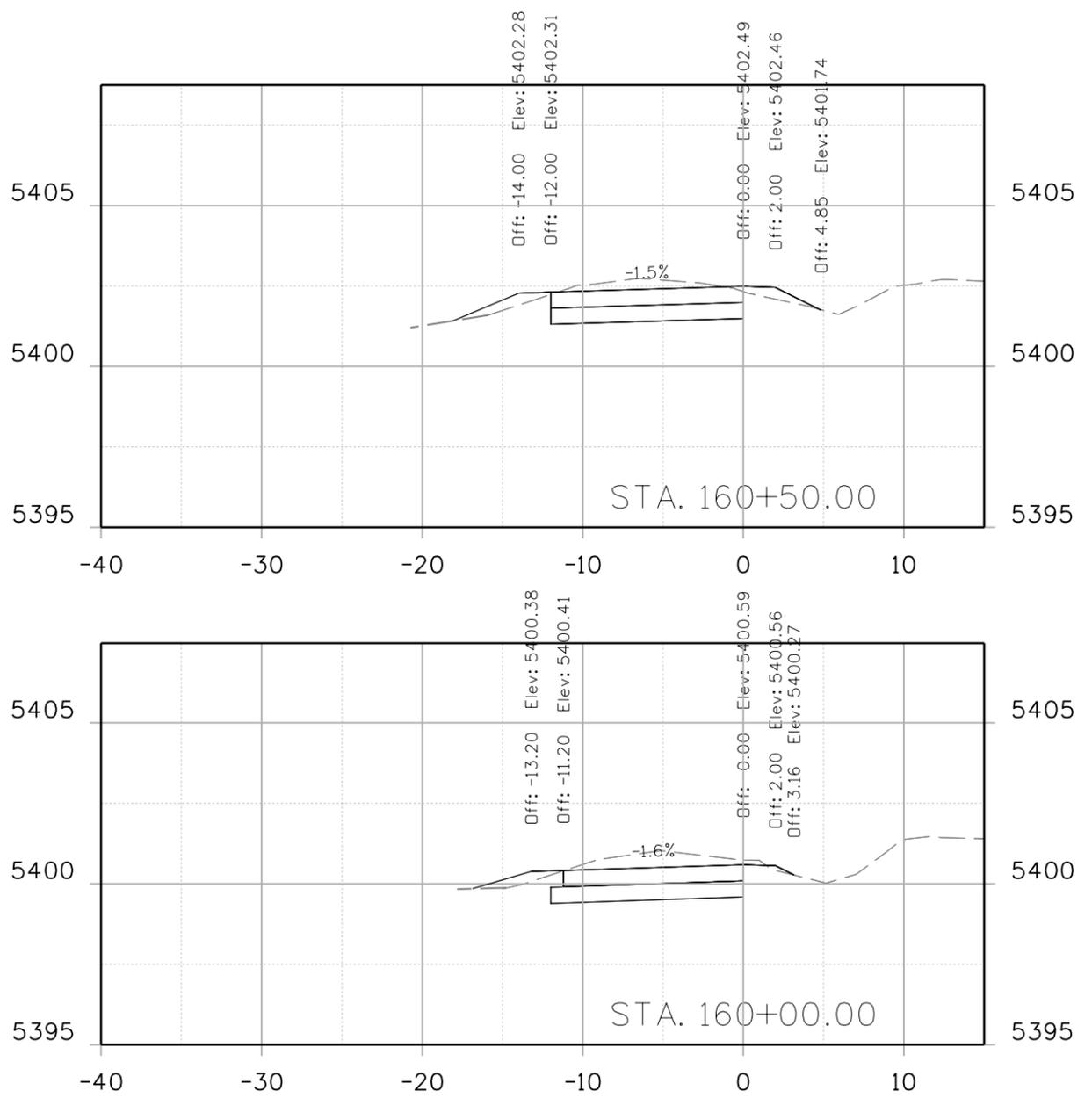
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**INDUSTRIAL LANE BIKEWAY PHASE 2  
CROSS SECTION**

Designer: Z. CRIMMINS  
Detailer: Z. CRIMMINS  
Sheet Subset: XSEC  
Subset Sheets: 33 of 36

Project No./Code  
STU M145-013  
23593  
Sheet Number **182**

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Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

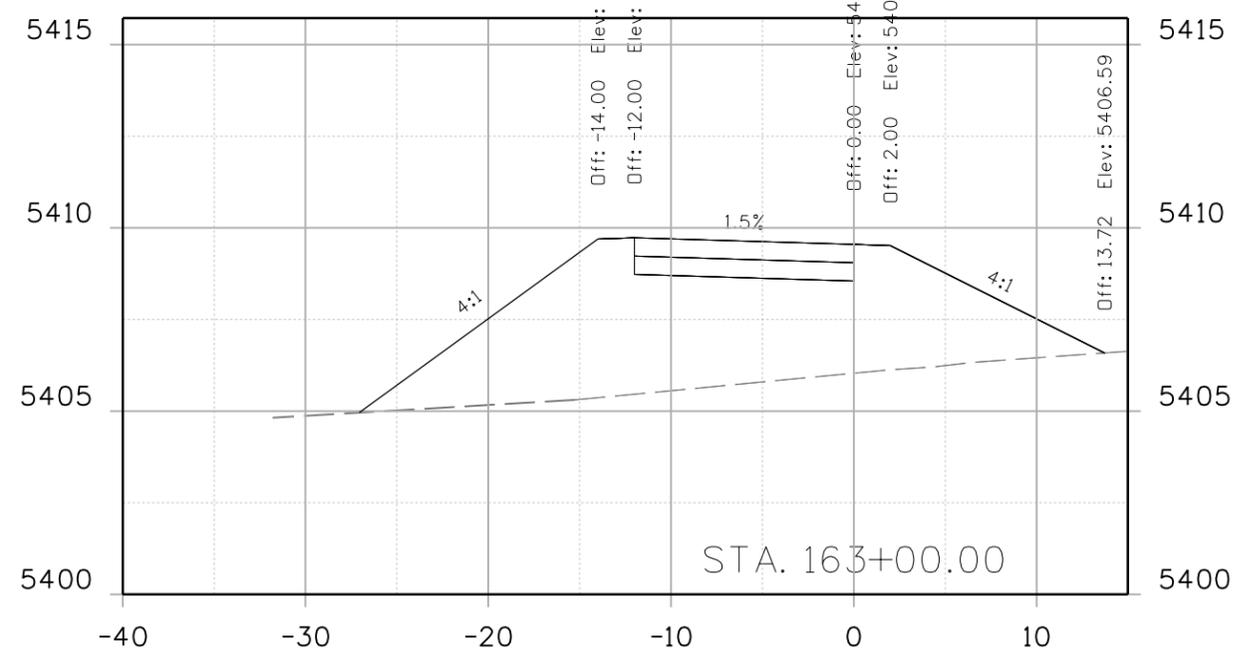
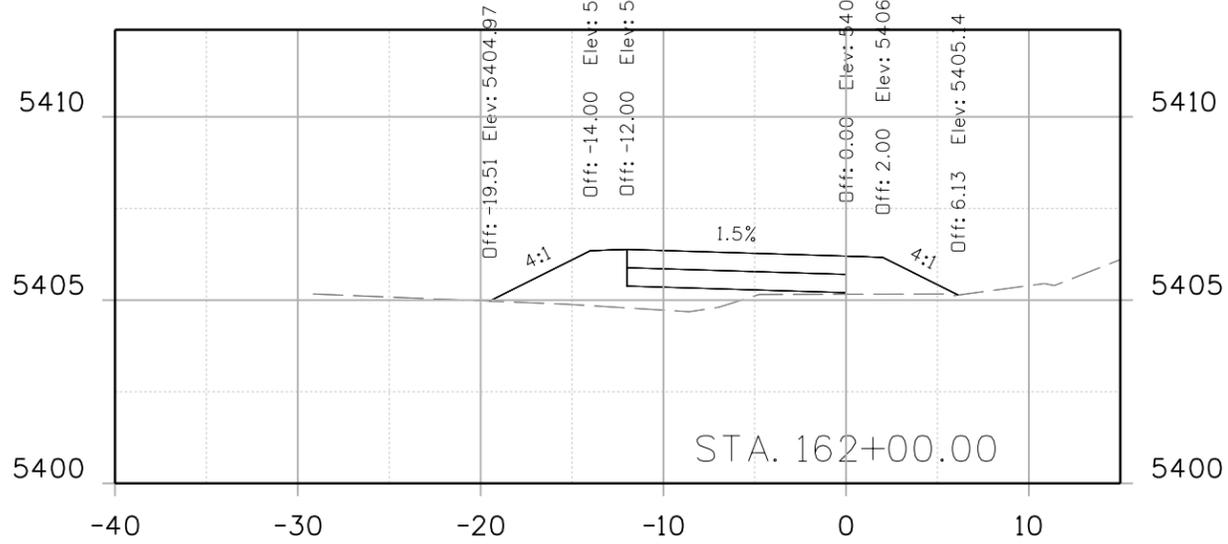
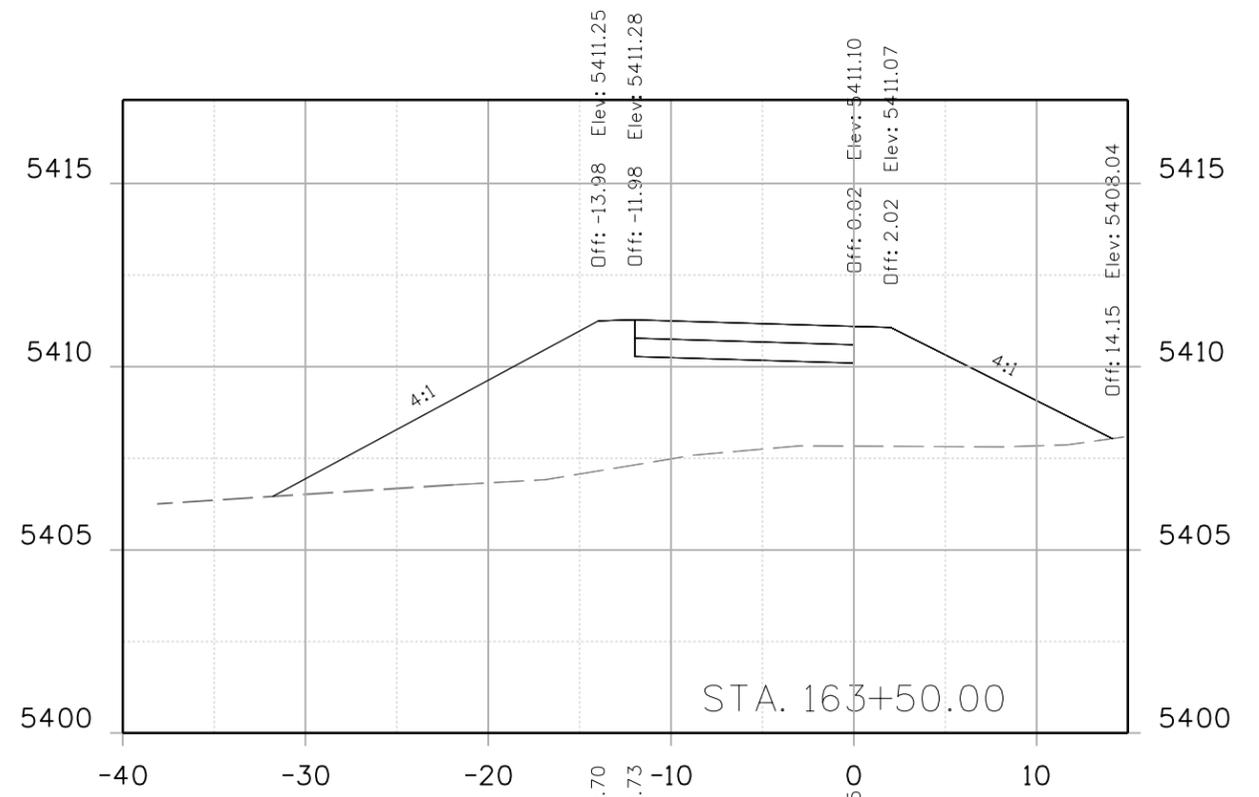
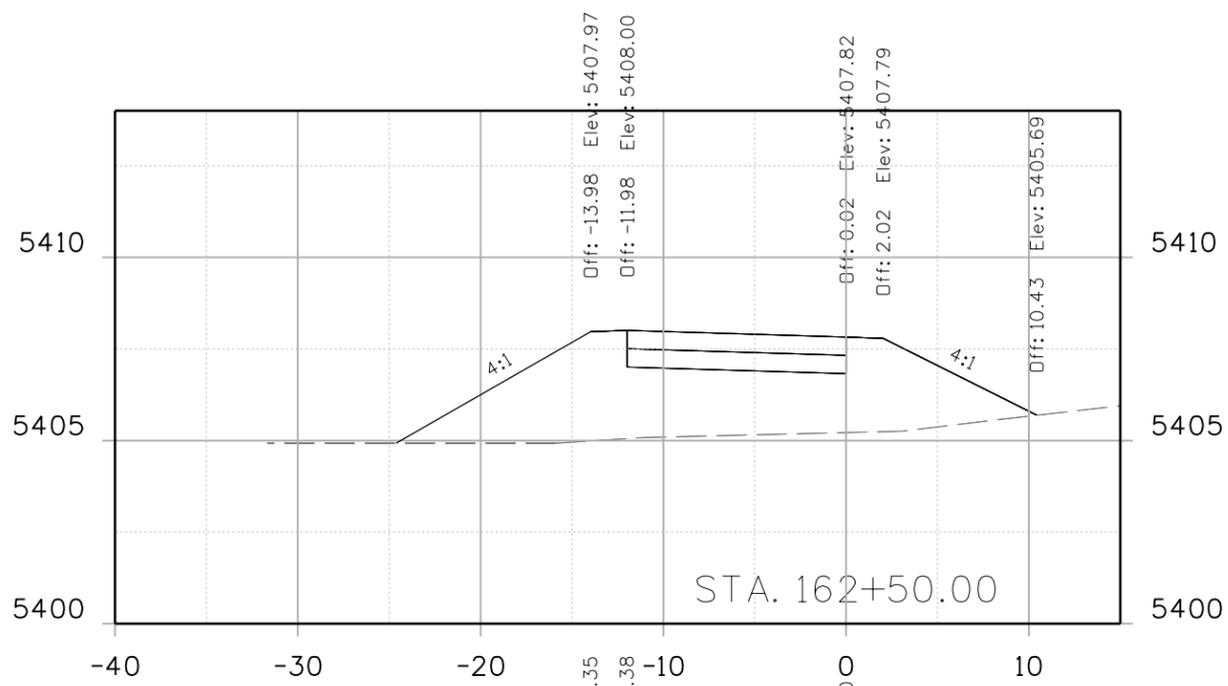
As Constructed  
 No Revisions:  
 Revised:  
 Void:

**INDUSTRIAL LANE BIKEWAY PHASE 2**  
**CROSS SECTION**

Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 34 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **183**

10:78 9:31:13 AM p:\SCI-PW\INTEG-2\stoneygroup.com\Datasource-1\Documents\City\_and\_County\_of\_Broomfield\30322.01 - Industrial Lane Ph 2\11-CADD\Worksheets\30322.01\DCNs\Design\Sheets\Indy Lane X-Sections



All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/4/2024  
 File Name: 30322\_X-SECS.dgn  
 Horiz. Scale: Vert. Scale: As Noted  
 Unit Information  
 Stanley Consultants Inc.  
 8000 South Chester Street  
 Suite 500  
 Centennial, CO 80112  
 Phone: 303-799-6806

Sheet Revisions		
Date:	Comments	Init.



ALL WORK SHALL BE CONSTRUCTED TO CITY AND COUNTY OF BROOMFIELD STANDARDS AND SPECIFICATIONS. THIS DRAWING HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL COMPLIANCE WITH THESE STANDARDS AND SPECIFICATIONS AND OTHER BROOMFIELD REQUIREMENTS. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR HEREON.

CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

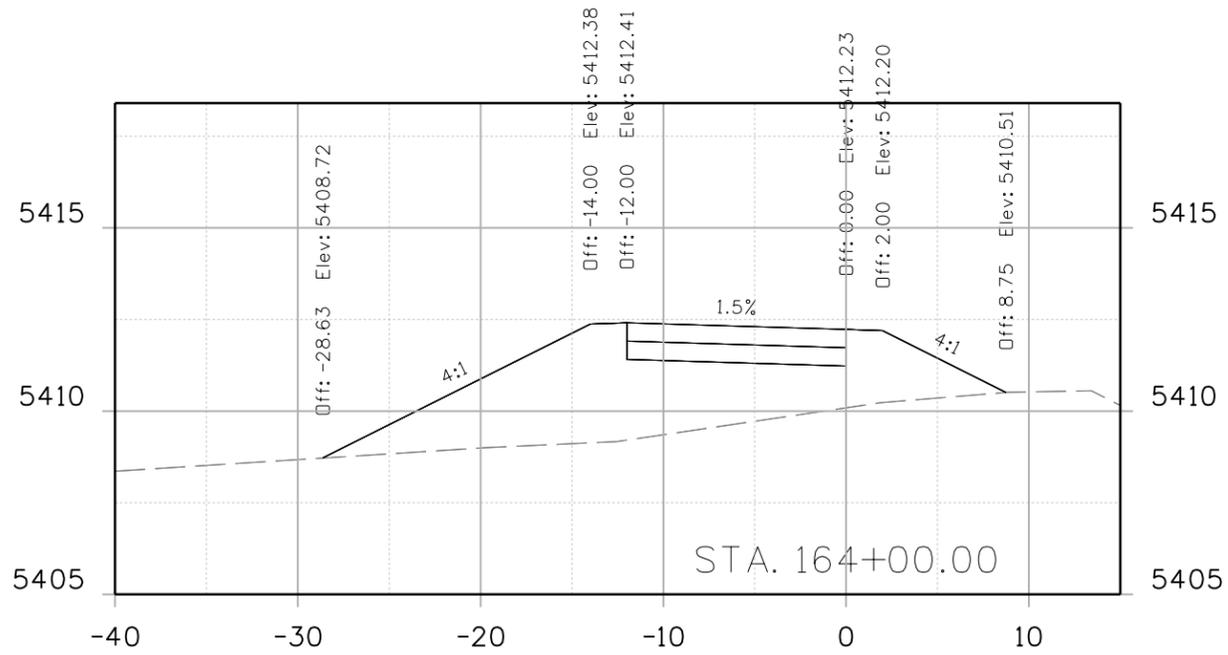
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 Revised:  
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INDUSTRIAL LANE BIKEWAY PHASE 2  
 CROSS SECTION

Designer: Z. CRIMMINS  
 Checker:  
 Detailer: Z. CRIMMINS  
 Sheet Subset: XSEC  
 Subset Sheets: 35 of 36

Project No./Code  
 STU M145-013  
 23593  
 Sheet Number **184**

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All seals for this set of drawings are applied to the cover page(s)

Print Date: 6/4/2024	
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Sheet Revisions		
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CITY ENGINEER (OR DESIGNEE) \_\_\_\_\_ DATE \_\_\_\_\_

As Constructed	INDUSTRIAL LANE BIKEWAY PHASE 2 CROSS SECTION
No Revisions:	
Revised:	
Void:	

Designer:	Z. CRIMMINS	Checker:	
Detailer:	Z. CRIMMINS		
Sheet Subset:	XSEC	Subset Sheets:	36 of 36

Project No./Code	STU M145-013
	23593
Sheet Number	185



CITY AND COUNTY OF BROOMFIELD  
 ONE DESCOMBES DRIVE  
 BROOMFIELD, CO 80020  
 Ph: 303.438.6389

Sheet Revisions		
Date	Description	Initials
3-13-24	Revised sheets: 1.02,1.02,,5.01,5.03, 7.07,7.08,8.02	RD
3-25-24	Revised sheet: 2.01	RD

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials



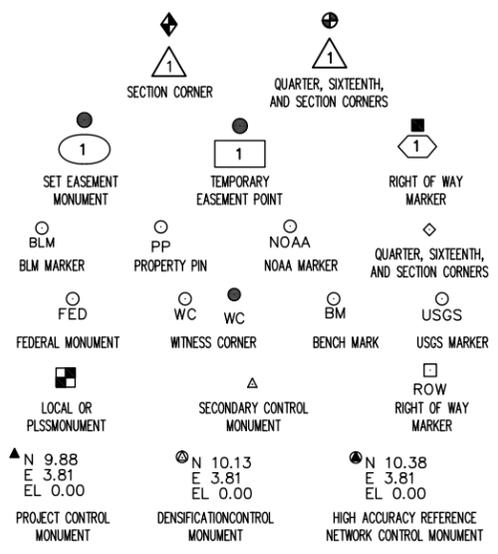
Right of Way Plan Title Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date	Subset	Sheet No.
23593	3-25-24	1.01 to 1.01	1.01

# CITY AND COUNTY OF BROOMFIELD DEPARTMENT OF PUBLIC WORKS

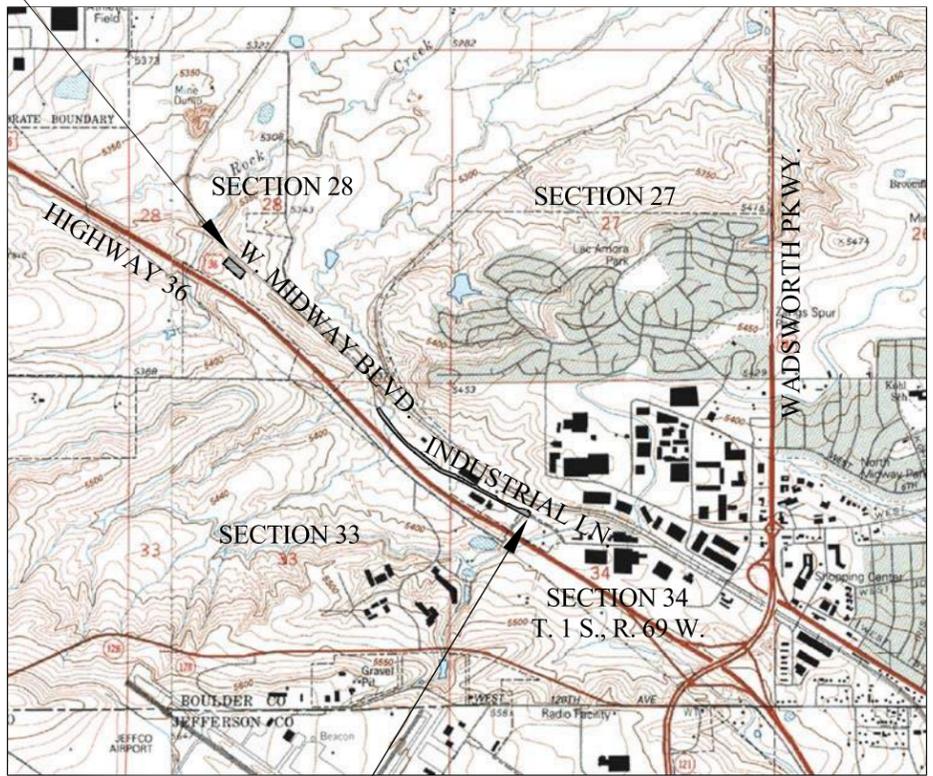
## RIGHT OF WAY PLANS OF PROPOSED PROJECT NO. STU M145-013 CITY AND COUNTY OF BROOMFIELD PROJECT NO. 21P0037 INDUSTRIAL LANE BIKEWAY PHASE 2 BROOMFIELD COUNTY CONSTRUCTION PROJECT CODE NO. 23593 SECTIONS 28, 33 AND 34 TOWNSHIP 1 SOUTH, RANGE 69 WEST OF THE 6TH PRINCIPAL MERIDIAN COUNTY OF BROOMFIELD

SHEET NO.	INDEX OF SHEETS
1.01	(1) Title Sheet
2.01-2.02	(2) Tabulation of Properties
3.01-3.06	(6) Project Control Diagram
4.01-4.05	(5) Land Survey Control Diagram
5.01-5.03	(3) Monumentation Sheets
7.01-7.11	(11) Plan Sheets
8.01-8.03	(3) Ownership Map
(31) Total Sheets	

Scales of Original 11"x17" Drawings  
 Plan Sheets 1"=50'  
 Ownership Map 1"=200'



Begin Industrial Lane  
 HCL Station: 100+00



End Industrial Lane  
 HCL Station: 165+00

PROJECT LOCATION MAP



Lineal Units = U.S. Survey Feet



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N00°04'00"E from the Southwest Corner of Section 28, Township 1 South, Range 69 West of the 6th P.M. to the West Quarter Corner of Section 28, Township 1 South, Range 69 West of the 6th P.M.. The monument at the Southwest Corner is a 2 1/2" aluminum cap marked PLS 23529 2000 on a #6 rebar, the monument at the West Quarter Corner is a 2 1/2" aluminum cap marked PLS 27936 1998 on a #6 rebar, marked appropriately for their position. The survey data was obtained from a Global Positioning System (GPS) survey based on a modified ground coordinate system, US State Plane 1983, Colorado North Zone 501.

1. This Right-of-Way Plan is not a boundary survey of the adjoining property and is prepared for the City and County of Broomfields purposes only.
2. For title information, The City and County of Broomfield relied upon title commitments prepared by Stewart Title Guaranty Company.
3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with the City and County of Broomfield that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

COLORADO DEPARTMENT OF TRANSPORTATION  
 LOCAL AGENCY PROJECT

ROW PLANS AUTHORIZED: \_\_\_\_\_ DATE \_\_\_\_\_

CDOT CHIEF ENGINEER

SURVEYOR STATEMENT (ROW PLAN)

I, Robert Daley, a professional land surveyor licensed in the State of Colorado, do hereby state to the City and County of Broomfield that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 35597



FILING CERTIFICATION: DAY OF \_\_\_\_\_ 20\_\_\_\_ AT \_\_\_\_\_ M.,  
 IN BOOK \_\_\_\_\_ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY  
 SURVEYS AT PAGE \_\_\_\_\_ RECEPTION NUMBER \_\_\_\_\_  
 SIGNED \_\_\_\_\_ DEPT. \_\_\_\_\_

SURVEY/ROW

TERRAIN

Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication. Existing topo features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening, except as noted with the word (proposed).

\$DATE\$ \$PLOT\_INFO\$

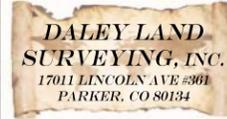


CITY AND COUNTY OF  
BROOMFIELD  
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BROOMFIELD, CO 80020  
Ph: 303.438.6389

Sheet Revisions		
Date	Description	Initials
3-25-24	Added RW-11 & TE-11, update title date	RD

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials



Right of Way Plans			
Tabulation of Properties			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date	Subset	Sheet No.
23593	3-25-24	2.01 to 2.02	2.01

**TABULATION OF PROPERTIES IN BROOMFIELD COUNTY - INDUSTRIAL LANE BIKEWAY PHASE 2**

Parcel No.	Ownership Name and Mailing Address	Site Address	Location	Area In Square Feet (Acres)					Book and Page No. And/Or Reception No.	Title Commitment No.	Remarks
				Area Of Parcel	Area of RW/PE/TE	Net Area	Remainder Left	Remainder Right			
<b>RW-6</b>	36 Properties LLC 558 E. Castle Pines Parkway Castle Rock, Colorado 80108	Brainard Drive Broomfield, Colorado 80020	Outlot C, Brainard V Minor Subdivision Vesting Deed Reception No. 2015009678 Parcel Id. 1575-284-20-005	1,325 sq. ft. (0.030 acres)	1,325 sq.ft. (0.030 acres)		0 sq.ft.		1960567-IO Effective Date 9/26/2023	Right of Way Parcel	
<b>RW-11</b>	CARS-DB4 L.P. 8484 Westpark Drive Suite 200 McLean, Virginia 22102	4101 Industrial Lane Broomfield, Colorado 80020	Part of Lot 2, Brainard V Minor Subdivision Vesting Deed Reception No. 2023009472 Parcel Id. 1575-331-23-001	153,418 sq. ft. (3.522 acres)	6,390 sq.ft. (0.147 acres)		147,028 sq.ft. (3.375 acres)		1963593-IO Effective Date 3/25/2024	Right of Way Parcel	
<b>TE-13</b>	CARS-DB4 L.P. 8484 Westpark Drive Suite 200 McLean, Virginia 22102	4101 Industrial Lane Broomfield, Colorado 80020	Part of Lot 2, Brainard V Minor Subdivision Vesting Deed Reception No. 2023009472 Parcel Id. 1575-331-23-001	153,418 sq. ft. (3.522 acres)	2,030 sq.ft. (0.047 acres)					Temporary Easement for the purpose of construction of sidewalk	
<b>RW-12</b>	The Conscious Alliance 3801 Industrial Lane Broomfield, Colorado 80020	3801 Industrial Lane Broomfield, Colorado 80020	Parcel in the NE 1/4 Section 33, T.1S., R.69W. Vesting Deed Reception No. 2020019651 Parcel Id. 1575-331-00-003	60,984 sq. ft. (1.400 acres)	5,000 sq.ft. (0.118 acres)		55,984 sq.ft. (1.285 acres)		1964825-IO Effective Date 9/27/2023	Right of Way Parcel	
<b>TE-12</b>	The Conscious Alliance 3801 Industrial Lane Broomfield, Colorado 80020	3801 Industrial Lane Broomfield, Colorado 80020	Parcel in the NE 1/4 Section 33, T.1S., R.69W. Vesting Deed Reception No. 2020019651 Parcel Id. 1575-331-00-003	60,984 sq. ft. (1.400 acres)	1,270 sq.ft. (0.029 acres)					Temporary Easement for the purpose of access and construction of sidewalk	
<b>TE-13</b>	Broomfield Storage LLC 8390 E. Crescent Parkway Suite 650 Greenwood Village, Colorado 80111	4103 Industrial Lane Broomfield, Colorado 80020	Lot 1, Brainard V Replat A Vesting Deed Reception No. 2017014781 Parcel Id. 1575-331-24-001	159,868 sq. ft. (3.670 acres)	701 sq. ft. (0.018 acres)				1964843-IO Effective Date 9/26/2023	Temporary Easement for the purpose of construction of sidewalk and access improvements	
<b>TE-13B</b>	Broomfield Storage LLC 8390 E. Crescent Parkway Suite 650 Greenwood Village, Colorado 80111	4103 Industrial Lane Broomfield, Colorado 80020	Lot 1, Brainard V Replat A Vesting Deed Reception No. 2017014781 Parcel Id. 1575-331-24-001	159,868 sq. ft. (3.670 acres)	659 sq. ft. (0.015 acres)				1964843-IO Effective Date 9/26/2023	Temporary Easement for the purpose of construction of sidewalk and access improvements	
<b>TE-13B</b>	Broomfield Storage LLC 8390 E. Crescent Parkway Suite 650 Greenwood Village, Colorado 80111	4103 Industrial Lane Broomfield, Colorado 80020	Lot 1, Brainard V Replat A Vesting Deed Reception No. 2017014781 Parcel Id. 1575-331-24-001	159,868 sq. ft. (3.670 acres)	702 sq. ft. (0.016 acres)				1964843-IO Effective Date 5/25/2024	Temporary Easement for the purpose of construction of sidewalk	
<b>PE-13</b>	Broomfield Storage LLC 8390 E. Crescent Parkway Suite 650 Greenwood Village, Colorado 80111	4103 Industrial Lane Broomfield, Colorado 80020	Lot 1, Brainard V Replat A Vesting Deed Reception No. 2017014781 Parcel Id. 1575-331-24-001	159,868 sq. ft. (3.670 acres)	577 sq. ft. (0.013 acres)				1964843-IO Effective Date 9/26/2023	Permanent Easement acquired for the purpose of access, construction and maintenance of sidewalk	





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Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials



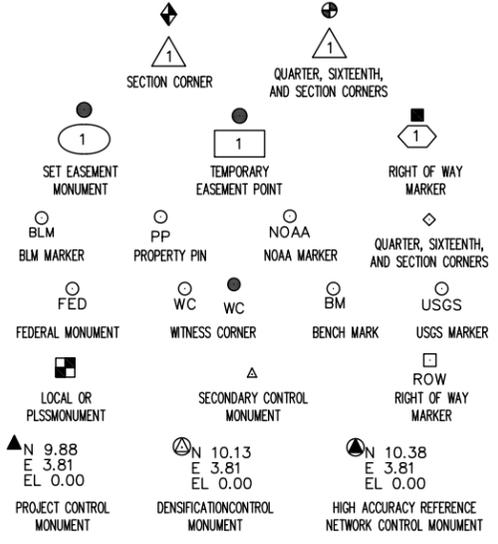
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Title Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23593	09-27-23	3.01 to 3.06	3.01

# CITY AND COUNTY OF BROOMFIELD DEPARTMENT OF PUBLIC WORKS

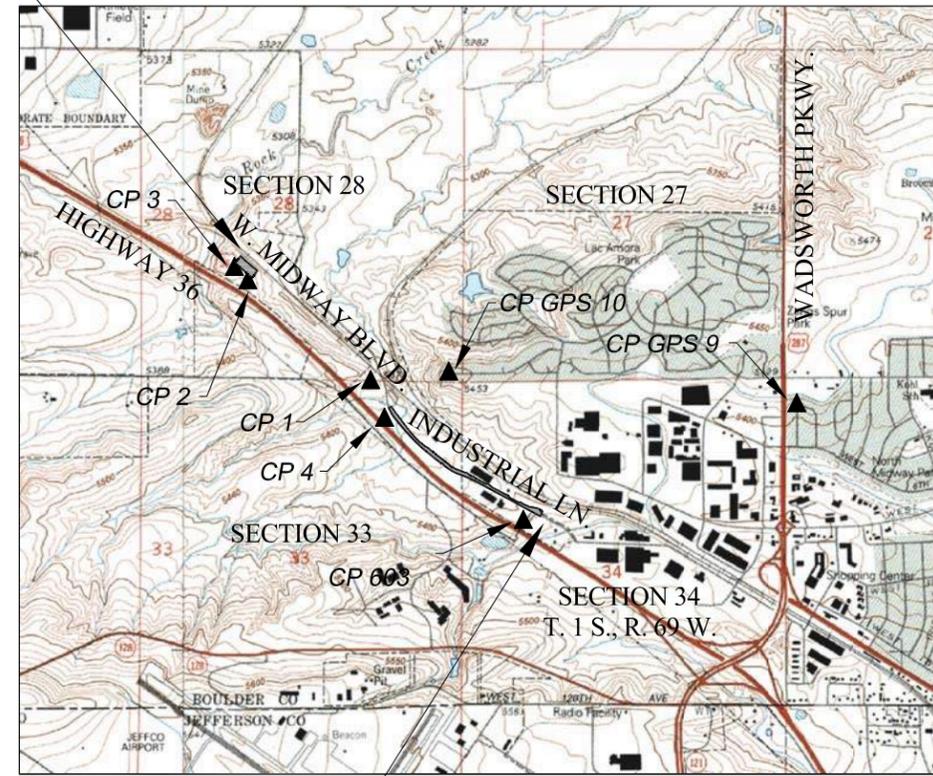
SHEET NO.	INDEX OF SHEETS
3.01-3.01	(1) Title Sheet
3.02-3.04	(3) Coordinate Tables
3.05-3.06	(2) Plan Sheet
(6) Total Sheets	

## PROJECT CONTROL DIAGRAM

Industrial Lane Bikeway Phase 2  
Sections 28, 33 and 34  
Township 1 South, Range 69 West of the 6th Principal Meridian  
City and County of Broomfield



Begin Industrial Lane  
HCL Station: 100+00



End Industrial Lane  
HCL Station: 165+00

PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N00°04'00"E from the Southwest Corner of Section 28, Township 1 South, Range 69 West of the 6th P.M. to the West Quarter Corner of Section 28, Township 1 South, Range 69 West of the 6th P.M.. The monument at the Southwest Corner is a 2 1/2" aluminum cap marked PLS 23529 2000 on a #6 rebar, the monument at the West Quarter Corner is a 2 1/2" aluminum cap marked PLS 27936 1998 on a #6 rebar, marked appropriately for their position. The survey data was obtained from a Global Positioning System (GPS) survey based on a modified ground coordinate system, US State Plane 1983, Colorado North Zone 501.

Basis of Elevations: Project elevations are GPS derived and based on the City and County of Broomfield Vertical Datum and originates from Broomfield CP GPS No. 10, a standard Broomfield Survey Disc, with a NAVD88 elevation of 5448.484 ft. The station is located in The City and County of Broomfield, in the Southeast 1/4 of Section 28, T1S, R69W, of the 6th Principal Meridian. To reach the station from the intersection of Midway Blvd. and US Highway 287 in Broomfield, travel West to the intersection of Midway Blvd. and Hoyt St., then North to the intersection of Hoyt St. and W. 10th Ave. Pl., then West to the end of the street. The mark is 29.0' West of lot corner and 116' North of fence. The mark is a GPS cap set in concrete in the ground with an orange witness post approx. 1' to the South.

COORDINATE DATUM: Project coordinates are based on a modified ground coordinate system, US State Plane 1983, Colorado North Zone 501 referenced to the Broomfield County Control Network. The Project Mapping Projection shown on this Project Control Diagram was calculated to fit the control monuments and coordinates. The combined elevation/scale factor used to modify the coordinates from the Colorado North Zone 501 to project coordinates is 1.0002827569. The resulting project coordinates are truncated by 0.000 ft in the Northing and 0.000 ft in the Easting after converting from Colorado North Zone 501 to project coordinates. The CHARN is based on the NAD83(92) datum. The project height is 5335.40 feet.

Project Coordinates Northing US Survey Feet = (Colorado North Zone 501 Coordinate Northing \* 1.0002827569). Project Coordinates Easting US Survey Feet = (Colorado North Zone 501 Coordinate Easting \* 1.0002827569).

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

Note: For a complete listing of symbolology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.



CP - Control Point Monuments set by DLS. They are a 1 1/2" dia. aluminum monument cap (as shown) on a 24" x 1/2" dia. rebar.

General Notes:

1. This Project Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for the City and County of Broomfield purposes.
2. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with the City that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, Robert Daley, a professional land surveyor licensed in the State of Colorado, do hereby state to the City and County of Broomfield this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 35597

\$DATE\$ \$PLOT\_INFO\$



CITY AND COUNTY OF  
BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
Ph: 303.438.6389

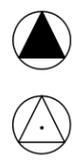
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Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials



Project Control Diagram			
Coordinate Tables			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23593	9-27-23	3.01 to 3.06	3.02



**CHARN GEODETIC COORDINATE SUMMARY TABLE**

Point No.	Geodetic Coordinates NAD-83 (92) (CHARN)		Elip Height (NAVD88) (ft)	Ortho Height (ft)	Mapping Angle	Grid Scale Factor	NAD 83 (92) Zone 501		Project Coordinates		Description
	Latitude (N)	Longitude (W)					SP Northing (ft)	SP Easting (ft)	Northing (ft)	Easting (ft)	
9	N39°55'30.44106"	W105°05'24.74296"	5335.54	5390.83	0°15'53.2"	0.999972902	1215836.576	3114930.796	1216180.360	3115811.570	3 1/2" Brass Cap Broomfield CP GPS NO. 9
10	N39°55'44.11528"	W105°06'38.75890"	5393.55	5448.48	0°15'05.4"	0.999972530	1217194.231	3109158.504	1217538.399	3110037.645	3 1/2" Brass Cap Broomfield CP GPS NO. 10
603	N39°55'21.58965"	W105°06'19.24061"	5356.21	5411.20	0°15'18.0"	0.999973146	1214921.683	3110689.138	1215265.209	3111568.713	3 1/4" Brass Cap RTD #603 PLS 24942







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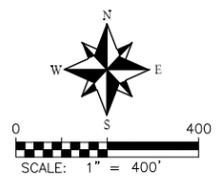
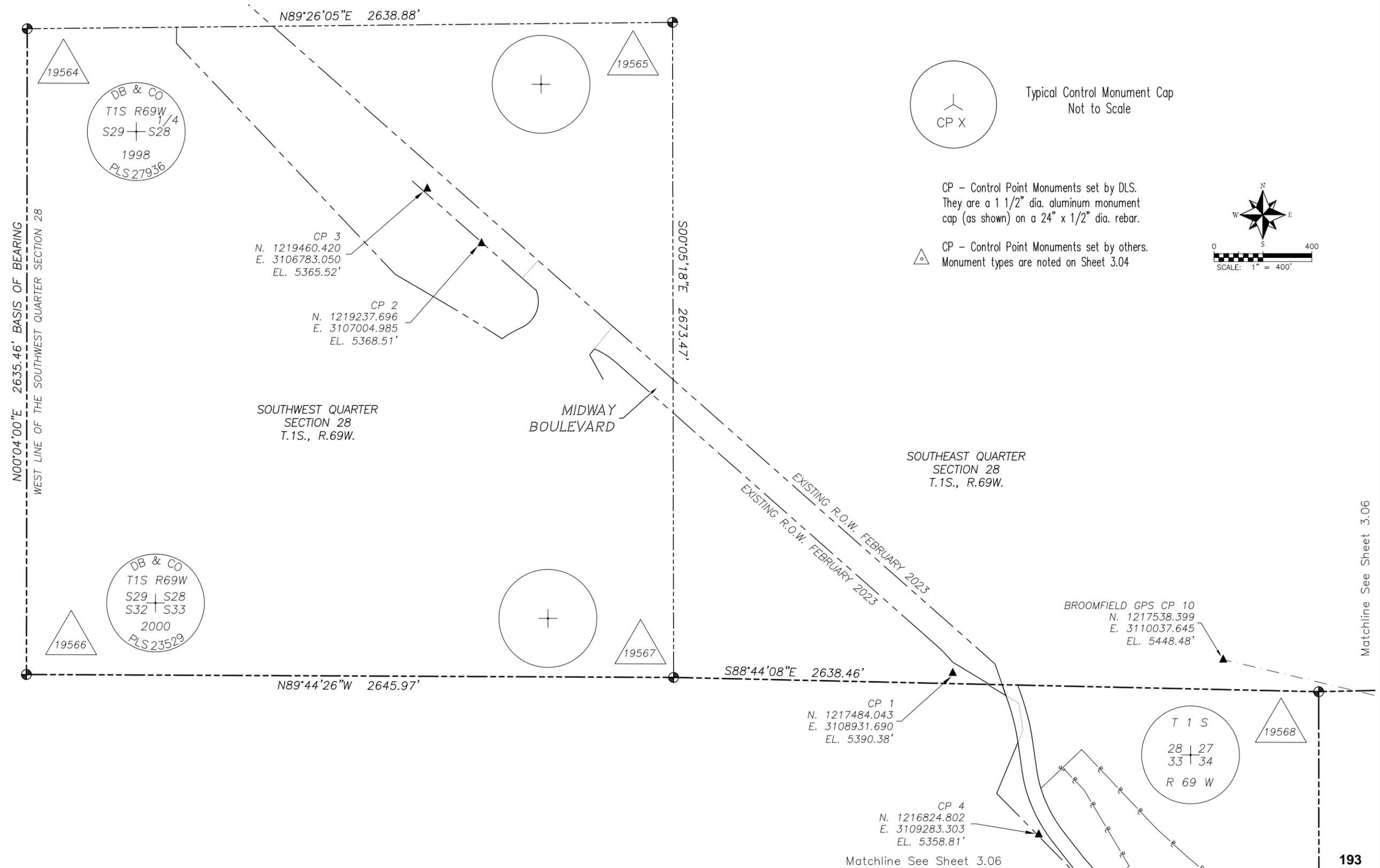
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Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials



Project Control Diagram			
Plan Sheet			
Project Number: STU M145-013		Project Location: Industrial Lane Bikeway Phase 2	
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23593	9-27-23	3.01 to 3.06	3.05



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Matchline See Sheet 3.06

Matchline See Sheet 3.06



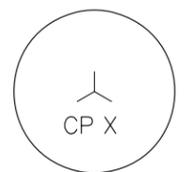
CITY AND COUNTY OF  
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Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials



Project Control Diagram			
Plan Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
City and County of Broomfield, Colorado			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23593	9-27-23	3.01 to 3.06	3.06

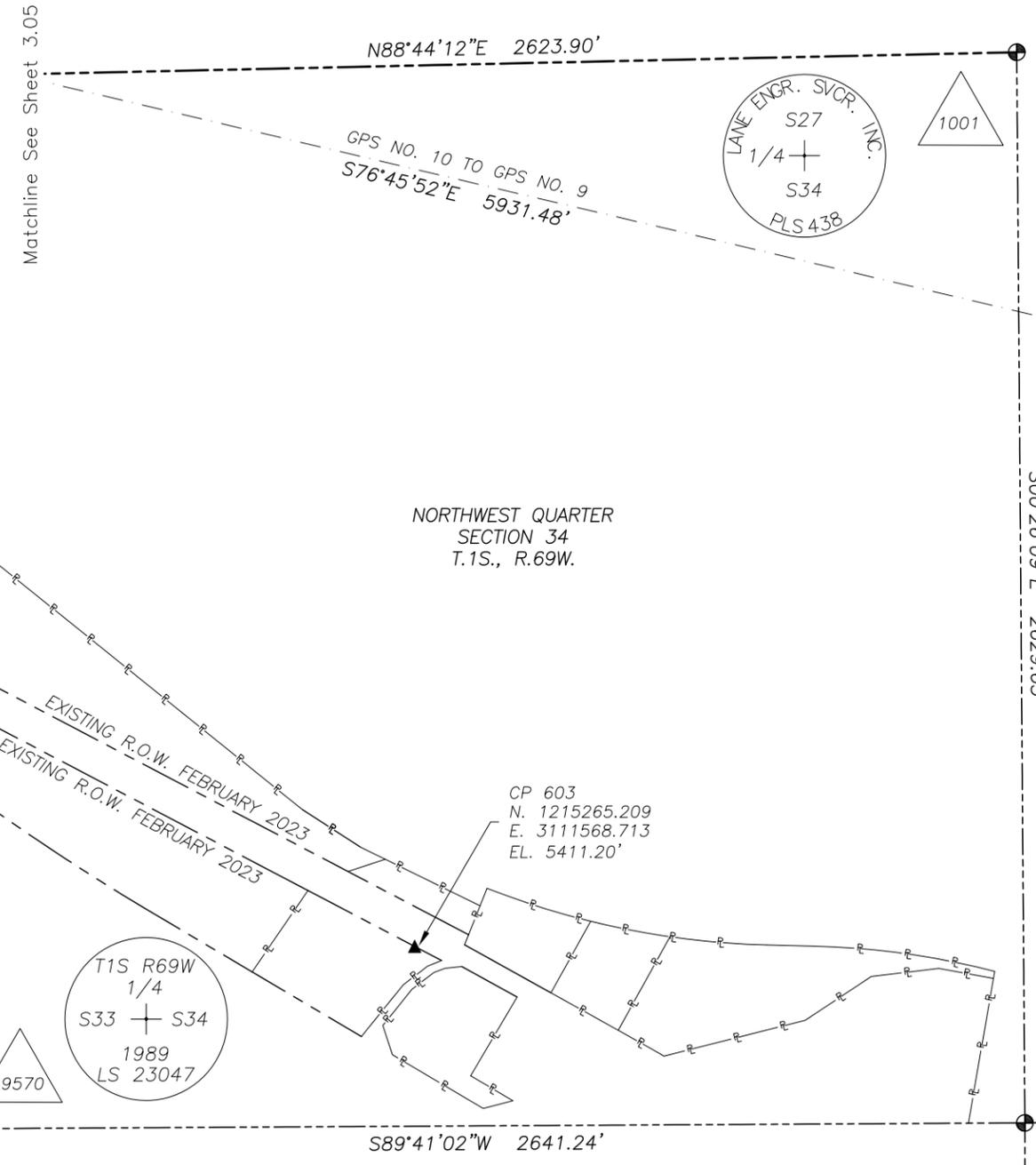
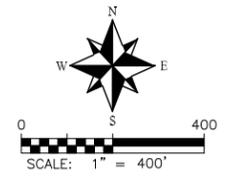
(PER AUGUST 30, 2012  
MONUMENT RECORD)



Typical Control Monument Cap  
Not to Scale

CP - Control Point Monuments set by DLS.  
They are a 1 1/2" dia. aluminum monument  
cap (as shown) on a 24" x 1/2" dia. rebar.

△ CP - Control Point Monuments set by others.  
Monument types are noted on Sheet 3.04



\$DATE\$ \$PLOT\_INFO\$



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 BROOMFIELD, CO 80020  
 Ph: 303.438.6389

Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials



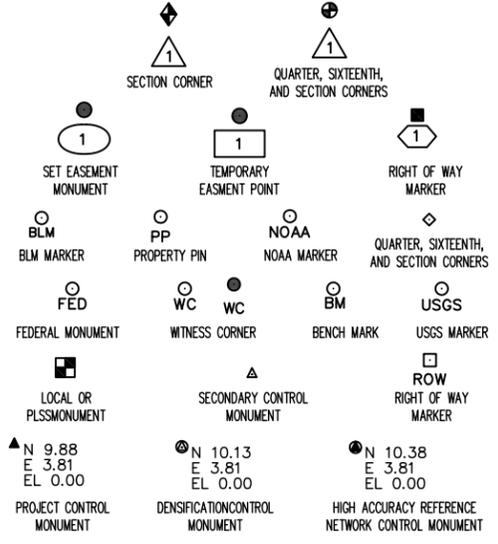
Land Survey Control Diagram			
Title Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
The City and County of Broomfield Colorado			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23593	9-27-23	4.01 to 4.05	4.01

# CITY AND COUNTY OF BROOMFIELD DEPARTMENT OF PUBLIC WORKS

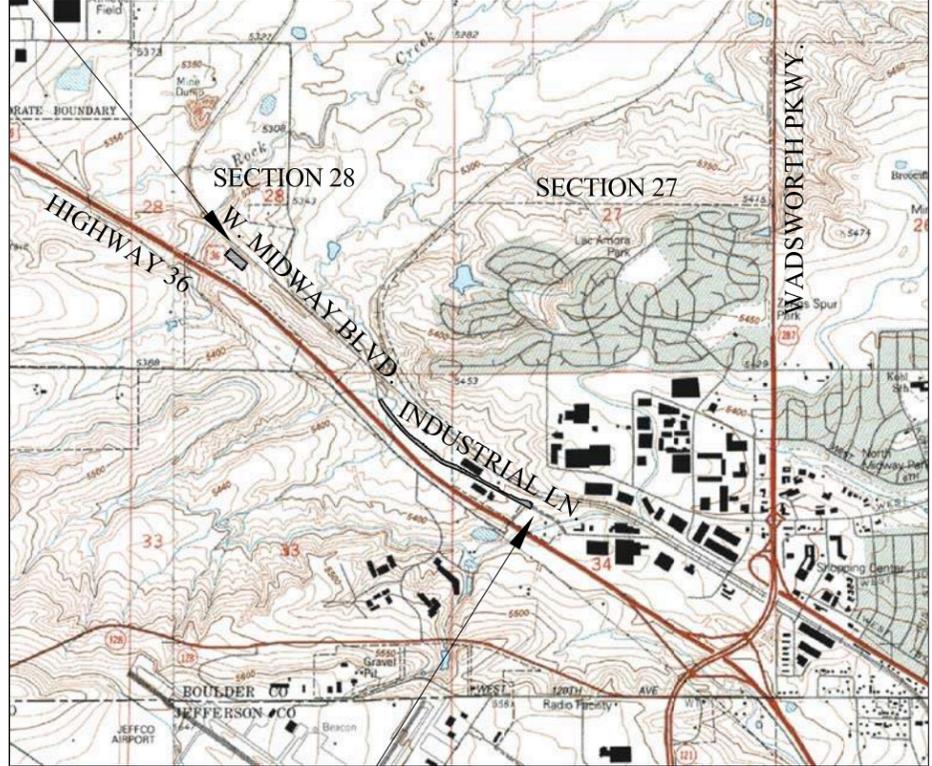
SHEET NO.	INDEX OF SHEETS
4.01-4.01	(1) Title Sheet
4.02-4.03	(2) Monument Coordinate Tables
4.04-4.05	(2) Plan Sheet
(5) Total Sheets	

## LAND SURVEY CONTROL DIAGRAM

Industrial Lane Bikeway Phase 2  
 Sections 28, 33 and 34  
 Township 1 South, Range 69 West of the 6th Principal Meridian  
 City and County of Broomfield



Begin Industrial Lane  
 HCL Station: 100+00



End Industrial Lane  
 HCL Station: 165+00

PROJECT LOCATION MAP



Lineal Units = U.S. Survey Feet



Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2012. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N00°04'00"E from the Southwest Corner of Section 28, Township 1 South, Range 69 West of the 6th P.M. to the West Quarter Corner of Section 28, Township 1 South, Range 69 West of the 6th P.M.. The monument at the Southwest Corner is a 2 1/2" aluminum cap marked PLS 23529 2000 on a #6 rebar, the monument at the West Quarter Corner is a 2 1/2" aluminum cap marked PLS 27936 1998 on a #6 rebar, marked appropriately for their position. The survey data was obtained from a Global Positioning System (GPS) survey based on a modified ground coordinate system, US State Plane 1983, Colorado North Zone 501.

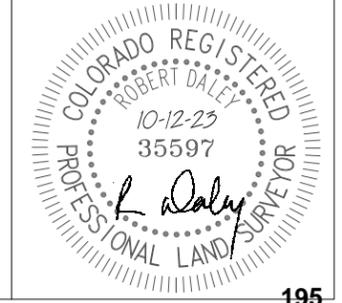
Basis of Elevations: Project elevations are GPS derived and based on the City and County of Broomfield Vertical Datum and originates from Broomfield CP GPS No. 10, a standard Broomfield Survey Disc, with a NAVD 88 elevation of 5448.484 ft. The station is located in The City and County of Broomfield, in the Southeast 1/4 of Section 28, T1S, R69W, of the 6th Principal Meridian. To reach the station from the intersection of Midway Blvd. and US Highway 287 in Broomfield, travel West to the intersection of Midway Blvd. and Hoyt St., then North to the intersection of Hoyt St. and W. 10th Ave. Pl., then West to the end of the street. The mark is 29.0' West of lot corner and 116' North of fence. The mark is a GPS cap set in concrete in the ground with an orange witness post approx. 1' to the South.

COORDINATE DATUM: Project coordinates are based on a modified ground coordinate system, US State Plane 1983, Colorado North Zone 501 referenced to the Broomfield County Control Network. The Project Mapping Projection shown on this Land Survey Control Diagram was calculated to fit the control monuments and coordinates. The combined elevation/scale factor used to modify the coordinates from the Colorado North Zone 501 to project coordinates is 1.0002827569. The resulting project coordinates are truncated by 0.000 ft in the Northing and 0.000 ft in the Easting after converting from Colorado North Zone 501 to project coordinates. The CHARN is based on the NAD83(92) datum. The project height is 5335.40 feet.

Project Coordinates Northing US Survey Feet = (Colorado North Zone 501 Coordinate Northing \* 1.0002827569). Project Coordinates Easting US Survey Feet = (Colorado North Zone 501 Coordinate Easting \* 1.0002827569).

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)  
 I, Robert Daley, a professional land surveyor licensed in the State of Colorado, do hereby, state to the City and County of Broomfield that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this, Right-of-Way Plan was prepared under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.  
 PLS No. 35597



- General Notes:
- This Land Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for the City and County of Broomfield purposes only. No determination has been made to determine if the found monuments as shown are in their proper position or if they are at the corners they are intended to monument.
  - Title policy, title commitment, and title research are not part of this survey, therefore easements, rights, and restrictions of record were not researched and are not shown on this diagram. The verification of the physical evidence with relation to easements, rights of ways, property boundaries, and restrictions, as described in the instruments of record, were not included in this control survey.
  - This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with the City that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
  - Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.

\$DATE\$ \$PLOT\_INFO\$



CITY AND COUNTY OF  
BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
Ph: 303.438.6389

Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials



Land Survey Control Diagram			
Monument Coordinate Tables			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
The City and County of Broomfield Colorado			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23593	9-27-23	4.01 to 4.05	4.02



FOUND ALIQUOT MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
1001	1217465.477	3113051.233	3" Brass Cap Illegible on a pipe
19564	1220113.293	3105147.283	2 1/2" Aluminum Cap PLS 27936 on a #6 rebar
19565	1220139.326	3107786.039	2 1/2" Aluminum Cap illegible on a #6 rebar
19566	1217477.833	3105144.217	2 1/2" Aluminum Cap PLS 23529 on a #6 rebar
19567	1217465.855	3107790.157	2 1/2" Aluminum Cap illegible on a #6 rebar
19568	1217407.631	3110427.972	2 1/2" Aluminum Cap no PLS number on a #6 rebar
19570	1214821.347	3110430.042	3 1/4" Aluminum Cap PLS 23047 1998 on a 2 3/8" pipe
19571	1214835.921	3113071.241	2 1/2" Aluminum Cap no PLS number on a #6 rebar



FOUND R.O.W. MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
1002	1215145.002	3111820.649	3 1/4" C.D.O.T. Aluminum Cap PLS 24961
1221	1216282.176	3109810.786	3 1/4" C.D.O.T. Brass Cap no markings
1239	1216727.082	3109469.523	3 1/4" C.D.O.T. Aluminum Cap PLS 24961
1239	1216688.365	3109423.564	3 1/4" C.D.O.T. Aluminum Cap PLS 24961
1239	1216793.710	3109341.268	3 1/4" C.D.O.T. Aluminum Cap PLS 24961
1240	1216957.618	3109247.858	3 1/4" C.D.O.T. Aluminum Cap PLS 24961
1241	1217076.585	3109216.376	3 1/4" C.D.O.T. Aluminum Cap PLS 24961



CONTROL MONUMENT COORDINATE TABLE				
Point No.	Northing(ft)	Easting(ft)	Elevation	Description
1	1217484.043	3108931.690	5390.38	1 1/2" Aluminum Cap on a #4 rebar
2	1219237.696	3107004.985	5368.51	1 1/2" Aluminum Cap on a #4 rebar
4	1219460.420	3106783.050	5365.52	1 1/2" Aluminum Cap on a #4 rebar
4	1216824.802	3109283.303	5358.81	1 1/2" Aluminum Cap on a #4 rebar
9	1216180.360	3115811.570	5390.83	Broomfield Control Point GPS No. 9
10	1217538.399	3110037.645	5448.48	Broomfield Control Point GPS No. 10
603	1215265.209	3111568.713	5411.20	3 1/4" Brass Cap RTD #603 PLS 24942

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Date	Description	Initials

Sheet Revisions		
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Land Survey Control Diagram			
Monument Coordinate Tables			
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The City and County of Broomfield Colorado			
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23593	9-27-23	4.01 to 4.05	4.03

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FOUND BOUNDARY MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
1208	1215483.312	3111495.991	1 1/4" Yellow Plastic Cap PLS 27936 on a #5 rebar
1208	1215513.577	3111433.948	#5 rebar
1219	1215453.015	3111404.028	1 1/4" Yellow Plastic Cap PLS 27936 on a #5 rebar
1211	1216299.443	3110428.922	1 1/4" Red Plastic Cap PLS 9010 on a #5 rebar
1212	1215948.332	3110429.147	1 1/4" Yellow Plastic Cap PLS 37929 on a #5 rebar
1219	1215934.801	3110429.037	1 1/2" Aluminum Cap illegible on a #5 rebar
1216	1216314.989	3109876.782	1 1/4" Yellow Plastic Cap PLS 37929 on a #5 rebar
1212	1216069.217	3110187.204	1 1/2" Aluminum Cap illegible on a #5 rebar
1213	1215944.146	3110405.397	1 1/2" Aluminum Cap illegible on a #5 rebar
1219	1216412.966	3109762.515	1 1/2" Aluminum Cap illegible on a #5 rebar
1226	1216372.524	3109721.714	1 1/2" Aluminum Cap PLS 23529 on a #5 rebar
1228	1216266.042	3109826.751	1 1/2" Aluminum Cap PLS 23529 on a #5 rebar
1223	1216272.799	3109833.688	1 1/2" Aluminum Cap illegible on a #5 rebar
1223	1216022.289	3110149.984	1 1/2" Aluminum Cap illegible on a #5 rebar
1226	1215888.235	3110383.476	1 1/2" Aluminum Cap PLS 23529 on a #5 rebar
1226	1215870.418	3110428.925	1 1/2" Aluminum Cap PLS 23529 on a #5 rebar
1223	1215865.344	3110429.141	2" Aluminum Cap PLS 38149 on a #5 rebar
1228	1215241.648	3111651.413	2" Aluminum Cap PLS 38149 on a #5 rebar
1230	1216643.798	3109997.253	1 1/2" Aluminum Cap PLS 23529 on a #5 rebar
1230	1216532.678	3109644.187	1 1/2" Aluminum Cap illegible on a #5 rebar
1237	1216537.234	3109559.634	1 1/2" Aluminum Cap illegible on a #5 rebar
1262	1219045.152	3107228.653	1" Brass Tag illegible
1208	1219167.671	3107236.374	#5 rebar
11262	1219045.002	3107228.586	Lead Plug



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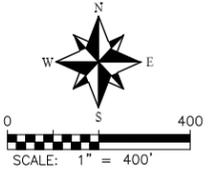
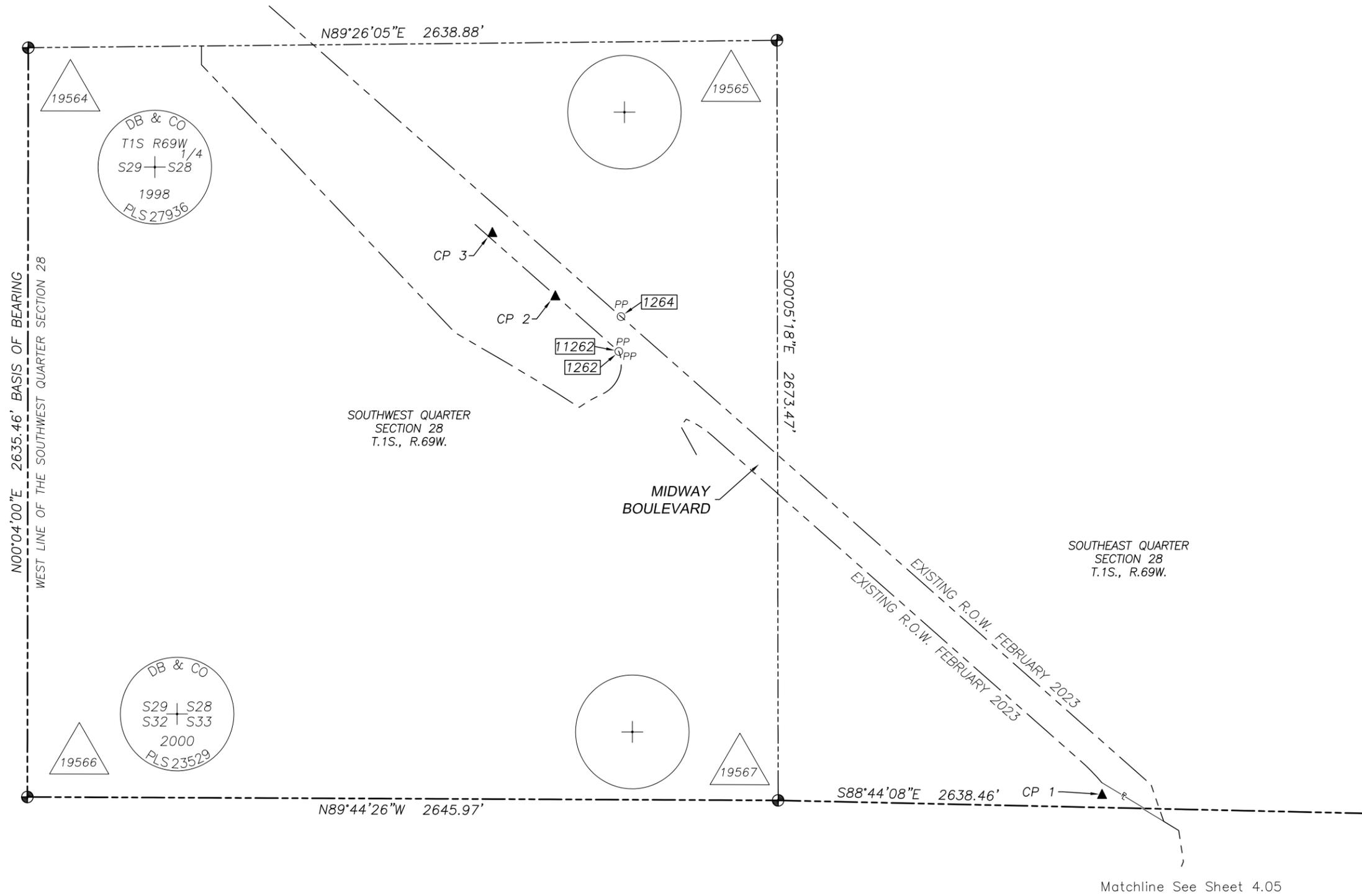
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Date	Description	Initials

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Date	Description	Initials

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Date	Description	Initials



Land Survey Control Diagram			
Plan Sheet			
Project Number: STU M145-013			
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The City and County of Broomfield Colorado			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23593	9-27-23	4.01 to 4.05	4.04



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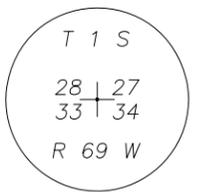
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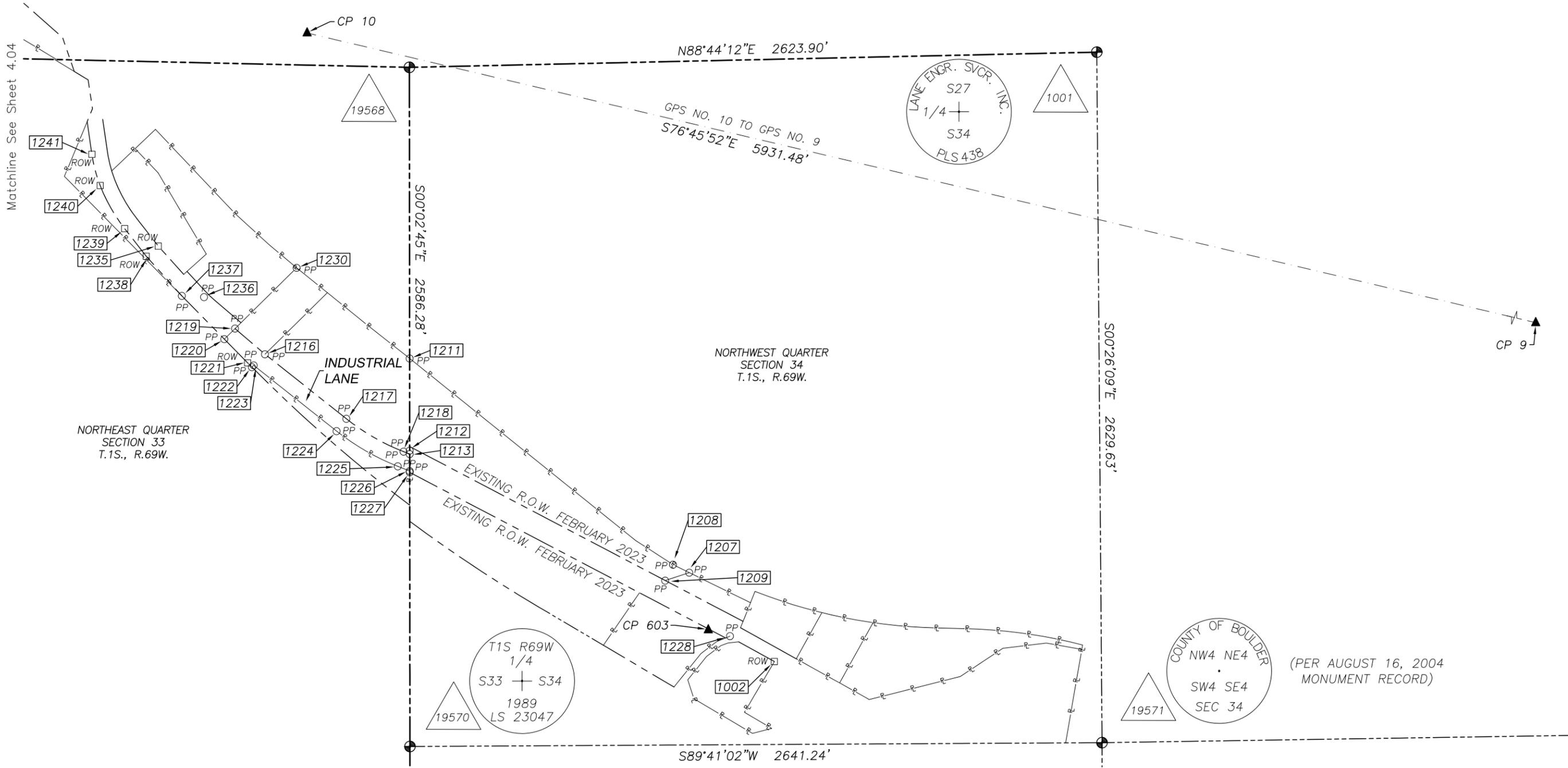
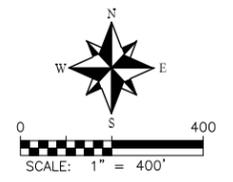
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Land Survey Control Diagram			
Plan Sheet			
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23593	9-27-23	4.01 to 4.05	4.05



(PER AUGUST 30, 2012  
MONUMENT RECORD)



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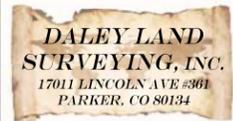


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Sheet Revisions		
Date	Description	Initials
3-13-24	Added points for RW-11	RD

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials



Right of Way Plans Monumentation Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
The City and County of Broomfield Colorado			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23953	3-13-24	5.01 to 5.03	5.01

XXX

TABULATION OF R.O.W. MONUMENTS TO BE SET					
Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
601	1217436.197	3109133.780	RW-6	130+24.65	L68.64
602	1217391.796	3109149.114	RW-6	130+71.19	L62.26
615	1216559.428	3109644.603	RW-11	140+56.00	L19.02
616	1216518.422	3109687.328	RW-11	141+17.45	L18.90
618	1216435.249	3109785.423	RW-11/RW-12	142+46.05	L19.90
621	1216338.090	3109900.068	RW-14	143+98.63	L20.38
714	1216630.451	3109579.186	RW-11	139+59.43	L19.90

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE										
ROW										7
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										16
PROJECT POINTS										
WITNESS POST (REQUIRED)										

General Notes:

- All centerline and offset stationing may not represent the centerline as constructed in the field.
- Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions. Type 6 monuments to be set shall be a 1 1/2" aluminum cap on a 5/8" rebar, minimum 16" depth.
- This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with City that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

COORDINATE DATUM: Project coordinates are based on a modified ground coordinate system, US State Plane 1983, Colorado North Zone 501 referenced to the Broomfield County Control Network. The Project Mapping Projection shown on this Land Survey Control Diagram was calculated to fit the control monuments and coordinates. The combined elevation/scale factor used to modify the coordinates from the Colorado North Zone 501 to project coordinates is 1.0002827569. The resulting project coordinates are truncated by 0.000 ft in the Northing and 0.000 ft in the Easting after converting from Colorado North Zone 501 to project coordinates. The CHARN is based on the NAD83(92) datum. The project height is 5335.40 feet.

Project Coordinates Northing US Survey Feet = (Colorado North Zone 501 Coordinate Northing \* 1.0002827569). Project Coordinates Easting US Survey Feet = (Colorado North Zone 501 Coordinate Easting \* 1.0002827569).

NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

SURVEYOR STATEMENT (R.O.W. MONUMENTS)	
<p>I, Robert Daley, a professional land surveyor licensed in the State of Colorado, do hereby state to the City and County of Broomfield that based upon my knowledge, information and belief, adequate research, calculations and evaluation of survey evidence were performed and the Right-of-Way monuments depicted on this Right-of-Way Plan were set under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.</p>	
<p>PLS No. 35597</p>	



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Sheet Revisions			Sheet Revisions			Sheet Revisions		
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Right of Way Plans Monumentation Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
The City and County of Broomfield Colorado			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23953	12-20-23	5.01 to 5.03	5.02

XX

TABULATION OF PERMANENT EASEMENT MONUMENTS TO BE SET					
Point No.	Northing (ft)	Easting (ft)	Description	Station	Offset
629	1215091.83	3110362.93	PE-13	149+79.30	L13.40
630	1215096.40	3110364.59	PE-13	149+78.88	L15.28
631	1215069.31	3110415.16	PE-13	150+37.05	L5.88
633	1215075.20	3110429.12	PE-13	150+46.70	L16.59
634	1215063.53	3110429.13	PE-13	150+51.33	L6.11
635	1215070.84	3110442.37	PE-15	150+58.37	L16.00
635	1215031.79	3110497.21	PE-15	151+27.09	L15.37
634	1215888.82	3110597.65	PE-15	152+38.06	L15.41
634	1215879.23	3110650.65	PE-15	152+89.73	L18.64
633	1215846.23	3110687.32	PE-15	153+31.90	L18.40
630	1215814.08	3110718.49	PE-15	153+80.61	L16.00
631	1215806.32	3110729.70	PE-15	153+95.48	L16.59
642	1215623.74	3111078.78	PE-15	157+93.42	L14.05
633	1215603.97	3111125.71	PE-15	158+42.06	L16.16
634	1215641.41	3111239.37	PE-15	159+71.80	L16.00
635	1215605.91	3111304.07	PE-15	160+45.60	L16.00

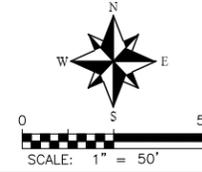
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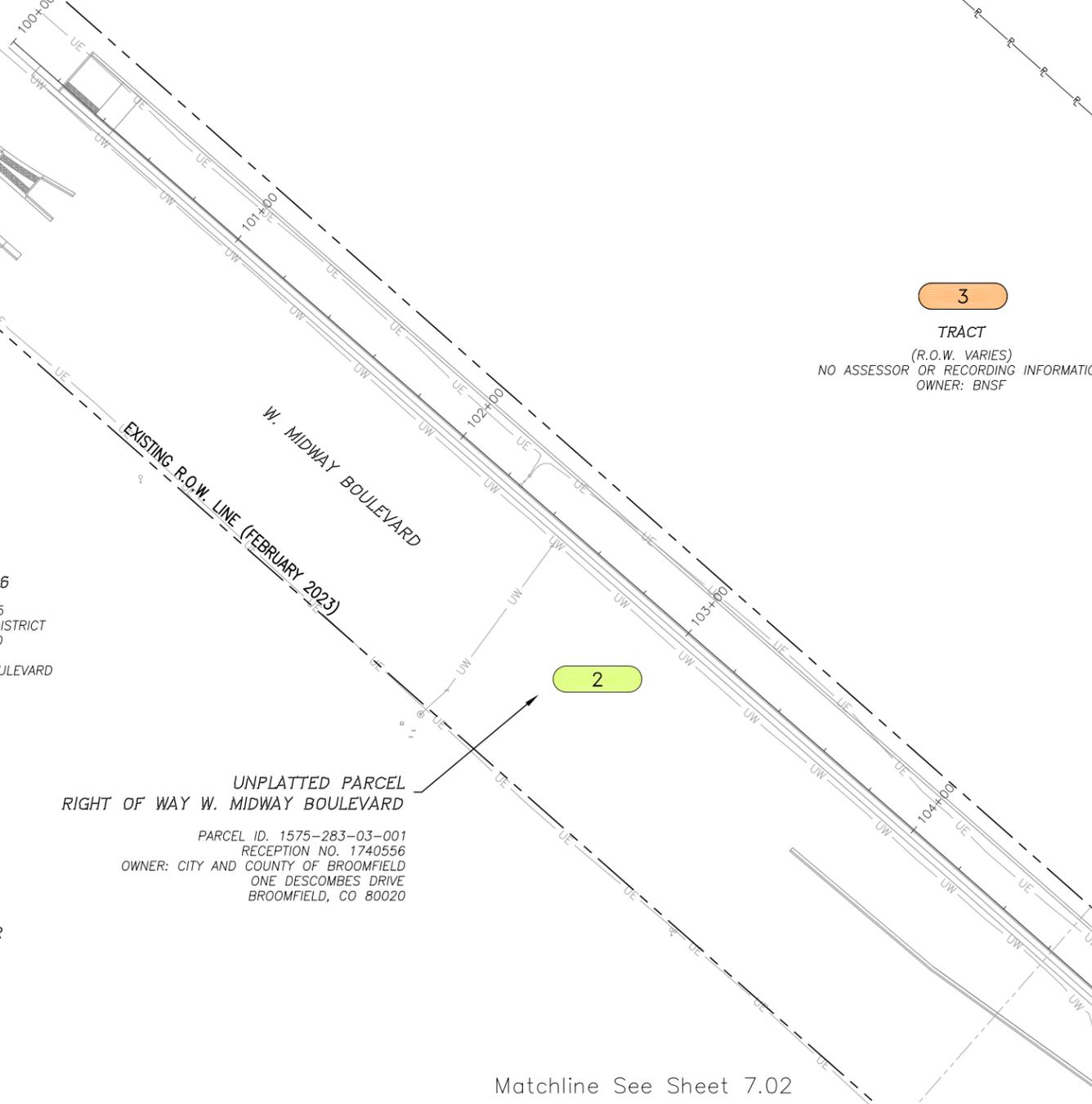
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Date	Description	Initials	Date	Description	Initials



Right of Way Plans			
Plan Sheet			
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The City and County of Broomfield Colorado			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23593	9-27-23	7.01 to 7.11	7.01

**UNPLATTED PARCEL**  
 PARCEL ID. 1575-283-00-004  
 RECEPTION NO. 2001000705  
 OWNER: REGIONAL TRANSPORTATION DISTRICT  
 1325 S. COLORADO BOULEVARD  
 DENVER, CO 80222  
 SITUS ADDRESS: 2501 BRAINARD DRIVE

EXISTING R.O.W. LINE (FEBRUARY 2023)



**UNPLATTED PARCEL C**  
 RECEPTION NO. 1740556  
 PARCEL ID. 1575-283-00-035  
 OWNER: REGIONAL TRANSPORTATION DISTRICT  
 1325 S. COLORADO BOULEVARD  
 DENVER, CO 80222  
 SITUS ADDRESS: 5000 W. MIDWAY BOULEVARD

**UNPLATTED PARCEL**  
 RIGHT OF WAY W. MIDWAY BOULEVARD  
 PARCEL ID. 1575-283-03-001  
 RECEPTION NO. 1740556  
 OWNER: CITY AND COUNTY OF BROOMFIELD  
 ONE DESCOMBES DRIVE  
 BROOMFIELD, CO 80020

SOUTHWEST QUARTER  
 SECTION 28  
 T.1S., R.69W.

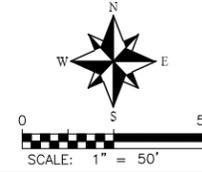
Matchline See Sheet 7.02

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Right of Way Plans			
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Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23593	9-27-23	7.01 to 7.11	7.02

Matchline See Sheet 7.01

**1**  
UNPLATTED PARCEL C  
RECEPTION NO. 1740556  
PARCEL ID. 1575-283-00-035  
OWNER: REGIONAL  
TRANSPORTATION DISTRICT  
1325 S. COLORADO BOULEVARD  
DENVER, CO 80222  
SITUS ADDRESS: 5000 W.  
MIDWAY BOULEVARD

**3**  
TRACT  
(R.O.W. VARIES)  
NO ASSESSOR  
OR RECORDING INFORMATION  
OWNER: BNSF

SOUTHWEST QUARTER  
SECTION 28  
T.1S., R.69W.

UNPLATTED PARCEL  
RECEPTION NO. 411881  
PARCEL ID. 15752800001  
OWNER: BOULDER COUNTY  
5201 ST. VRAIN ROAD  
LONGMONT, CO 80503  
SITUS ADDRESS: 2800  
BRAINARD DRIVE

**4**  
UNPLATTED PARCEL NO. 5 REV.  
RECEPTION NO. 2001000705  
PARCEL ID. 1575-283-00-032  
OWNER: CITY AND COUNTY OF BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: 4001 INDUSTRIAL LANE

**5**  
UNPLATTED PARCEL NO. 6A  
RECEPTION NO. 2001000705  
RIGHT OF WAY INDUSTRIAL LANE  
PARCEL ID. 1575-284-00-034  
OWNER: CITY AND COUNTY OF BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: INDUSTRIAL LANE

S00°05'18"E 2673.47'  
E. LINE SOUTHWEST QUARTER SECTION 28

Matchline See Sheet 7.03

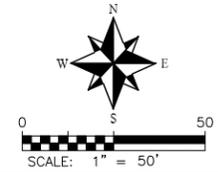
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Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials



Right of Way Plans			
Plan Sheet			
Project Number: STU M145-013			
Project Location: Industrial Lane Bikeway Phase 2			
The City and County of Broomfield Colorado			
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23593	9-27-23	7.01 to 7.11	7.04

Matchline See Sheet 7.03

UNPLATTED PARCEL  
RECEPTION NO. 411881  
PARCEL ID. 157528000001  
OWNER: BOULDER COUNTY  
5201 ST. VRAIN ROAD  
LONGMONT, CO 80503  
SITUS ADDRESS: 2800  
BRAINARD DRIVE

3

TRACT  
(R.O.W. VARIES)  
NO ASSESSOR OR RECORDING INFORMATION  
OWNER: BNSF

SOUTHEAST QUARTER  
SECTION 28  
T.1S., R.69W.

5

UNPLATTED PARCEL NO. 6A  
RECEPTION NO. 2001000705  
RIGHT OF WAY INDUSTRIAL LANE  
PARCEL ID. 1575-284-00-034  
OWNER: CITY AND COUNTY OF BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: INDUSTRIAL LANE

UNPLATTED PARCEL  
RECEPTION NO. 2001000705  
PARCEL ID. 1575-284-00-033  
OWNER: CITY AND COUNTY OF BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: INDUSTRIAL LANE

UNPLATTED PARCEL NO. 45X  
RECEPTION NO. 1716890  
BOOK 22 PAGE 1534  
OWNER: CITY AND COUNTY OF BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: INDUSTRIAL LANE

W. MIDWAY BOULEVARD

EXISTING R.O.W. LINE  
(FEBRUARY 2023)

EXISTING R.O.W. LINE (FEBRUARY 2023)

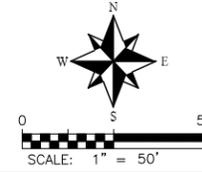
Matchline See Sheet 7.05

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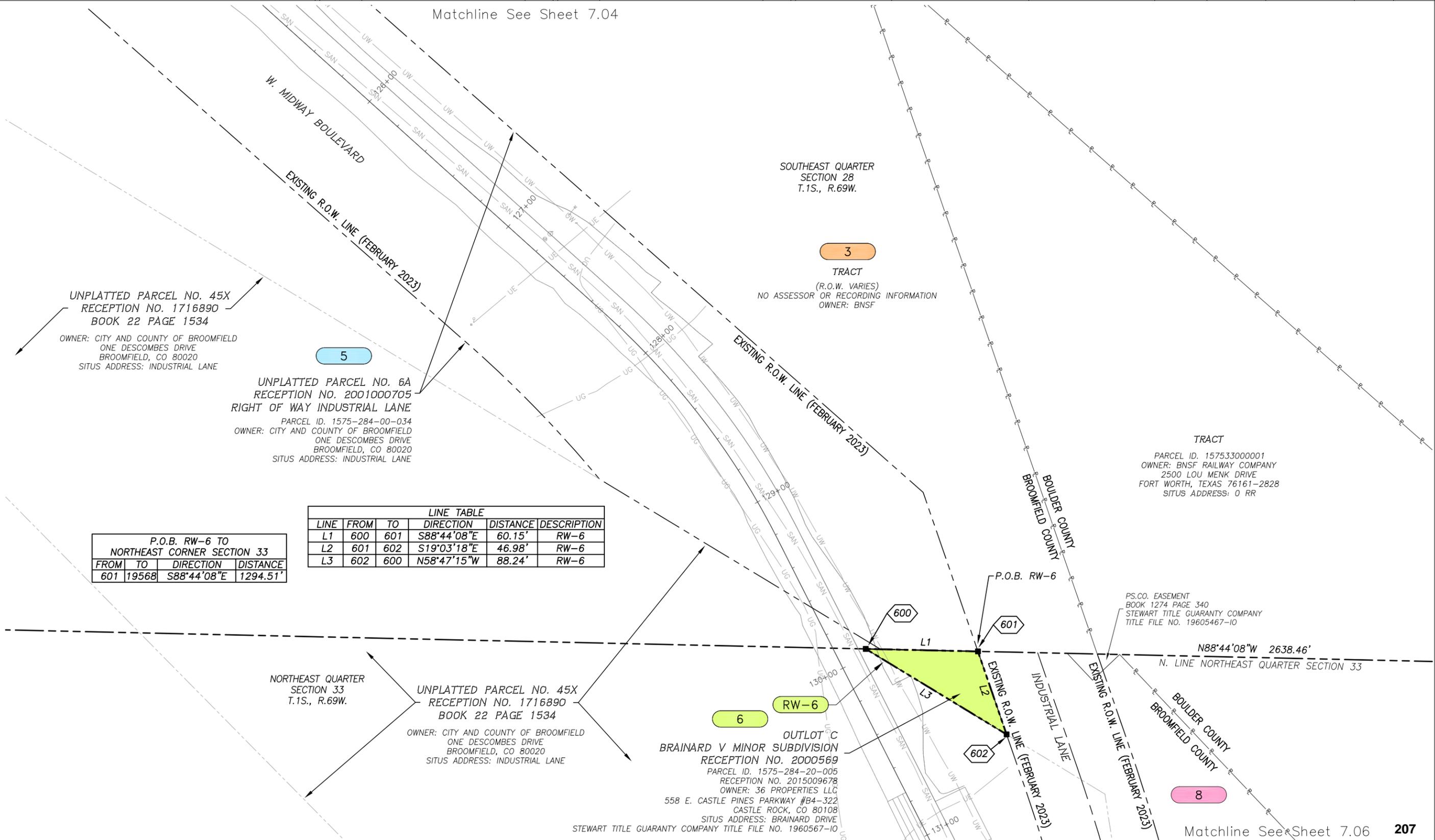
CITY AND COUNTY OF  
BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
Ph: 303.438.6389

Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials



Right of Way Plans			
Plan Sheet			
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The City and County of Broomfield Colorado			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
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Matchline See Sheet 7.04



UNPLATTED PARCEL NO. 45X  
RECEPTION NO. 1716890  
BOOK 22 PAGE 1534

OWNER: CITY AND COUNTY OF BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: INDUSTRIAL LANE

UNPLATTED PARCEL NO. 6A  
RECEPTION NO. 2001000705  
RIGHT OF WAY INDUSTRIAL LANE  
PARCEL ID. 1575-284-00-034  
OWNER: CITY AND COUNTY OF BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: INDUSTRIAL LANE

SOUTHEAST QUARTER  
SECTION 28  
T.1S., R.69W.  
**3**  
TRACT  
(R.O.W. VARIES)  
NO ASSESSOR OR RECORDING INFORMATION  
OWNER: BNSF

TRACT  
PARCEL ID. 157533000001  
OWNER: BNSF RAILWAY COMPANY  
2500 LOU MENK DRIVE  
FORT WORTH, TEXAS 76161-2828  
SITUS ADDRESS: 0 RR

LINE TABLE					
LINE	FROM	TO	DIRECTION	DISTANCE	DESCRIPTION
L1	600	601	S88°44'08"E	60.15'	RW-6
L2	601	602	S19°03'18"E	46.98'	RW-6
L3	602	600	N58°47'15"W	88.24'	RW-6

P.O.B. RW-6 TO NORTHEAST CORNER SECTION 33			
FROM	TO	DIRECTION	DISTANCE
601	19568	S88°44'08"E	1294.51'

NORTHEAST QUARTER  
SECTION 33  
T.1S., R.69W.  
UNPLATTED PARCEL NO. 45X  
RECEPTION NO. 1716890  
BOOK 22 PAGE 1534  
OWNER: CITY AND COUNTY OF BROOMFIELD  
ONE DESCOMBES DRIVE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: INDUSTRIAL LANE

**6**  
RW-6  
OUTLOT 'C  
BRAINARD V MINOR SUBDIVISION  
RECEPTION NO. 2000569  
PARCEL ID. 1575-284-20-005  
RECEPTION NO. 2015009678  
OWNER: 36 PROPERTIES LLC  
558 E. CASTLE PINES PARKWAY #B4-322  
CASTLE ROCK, CO 80108  
SITUS ADDRESS: BRAINARD DRIVE  
STEWART TITLE GUARANTY COMPANY TITLE FILE NO. 1960567-10

PS.CO. EASEMENT  
BOOK 1274 PAGE 340  
STEWART TITLE GUARANTY COMPANY  
TITLE FILE NO. 19605467-10

N88°44'08"W 2638.46'  
N. LINE NORTHEAST QUARTER SECTION 33

**8**

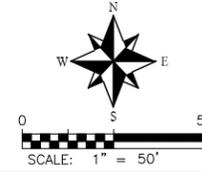
Matchline See Sheet 7.06

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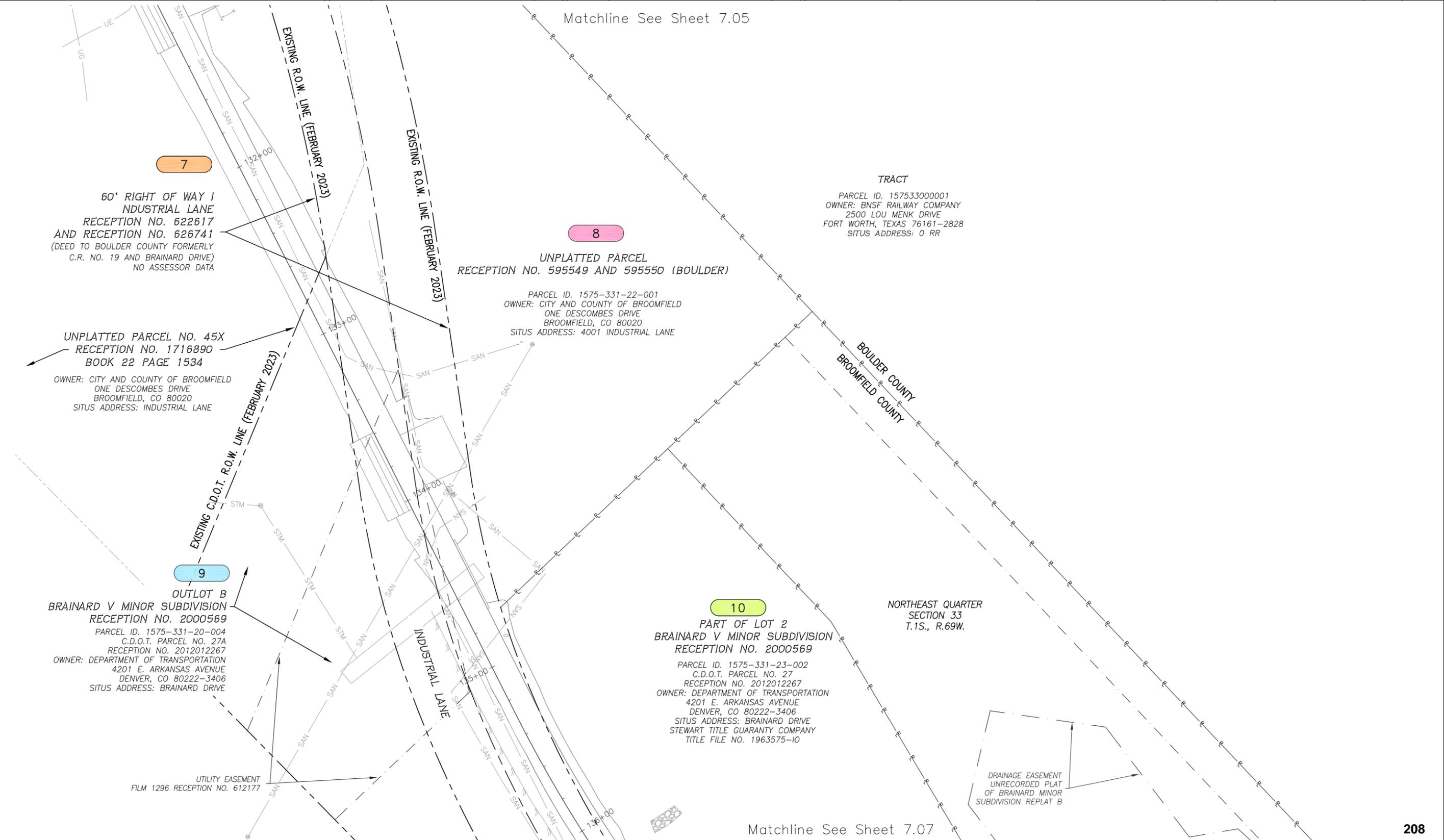
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Matchline See Sheet 7.05



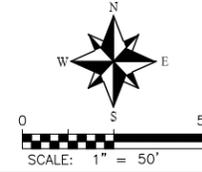
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Matchline See Sheet 7.07



CITY AND COUNTY OF  
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3-13-24	Added RW-11 and TE 11	RD			



Right of Way Plans			
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23593	3-13-24	7.01 to 7.11	7.07

Matchline See Sheet 7.06

10

PART OF LOT 2  
BRAINARD V MINOR SUBDIVISION  
RECEPTION NO. 2000569  
PARCEL ID. 1575-331-23-002  
C.D.O.T. PARCEL NO. 27  
RECEPTION NO. 2012012267  
OWNER: DEPARTMENT OF TRANSPORTATION  
4201 E. ARKANSAS AVENUE  
DENVER, CO 80222-3406  
SITUS ADDRESS: BRAINARD DRIVE  
STEWART TITLE GUARANTY COMPANY  
TITLE FILE NO. 1963575-10

20' WIDE ELECTRIC EASEMENT  
BOOK 1274 PAGE 340  
STEWART TITLE GUARANTY COMPANY  
TITLE FILE NO. 19605467-10

P.O.B. RW-11 TO NORTHEAST CORNER SECTION 33			
FROM	TO	DIRECTION	DISTANCE
613	19568	N47°31'49"E	1167.71'

P.O.B. TE-11 TO NORTHEAST CORNER SECTION 33			
FROM	TO	DIRECTION	DISTANCE
714	19568	N47°31'18"E	1150.85'

LINE TABLE					
LINE	FROM	TO	DIRECTION	DISTANCE	DESCRIPTION
L4	714	715	N48°07'46"E	10.70'	TE-11

20' WIDE EASEMENT  
RECEPTION NO. 612177  
STEWART TITLE GUARANTY COMPANY TITLE  
FILE NO. 19605467-10

60' RIGHT OF WAY  
INDUSTRIAL LANE  
RECEPTION NO. 622617  
AND RECEPTION NO. 626741  
(DEED TO BOULDER COUNTY FORMERLY  
C.R. NO. 19 AND BRAINARD DRIVE)  
NO ASSESSOR DATA  
STEWART TITLE GUARANTY COMPANY  
TITLE FILE NO. 19605467-10

11

PART OF LOT 2  
BRAINARD V MINOR SUBDIVISION  
PLAT RECEPTION NO. 2000569

PARCEL ID. 1575-331-23-001  
REMAINDER PARCEL  
LESS PARCEL 27 RECEPTION NO. 2012012267  
RECEPTION NO. 2023009472  
OWNER: CARS-DB4 L.P.  
8484 WESTPARK DRIVE SUITE 200  
MCLEAN, VA 22102  
SITUS ADDRESS: 4101 INDUSTRIAL LANE

NORTHEAST QUARTER  
SECTION 33  
T.1S., R.69W.

15' WIDE DRIVEWAY EASEMENT  
RECEPTION NO. 2020002489  
STEWART TITLE GUARANTY COMPANY  
TITLE FILE NO. 1963575-10

A=59.26'  
R=481.00'  
D=7°03'31"  
CH. BRG.=S46°10'35"E  
CH. D.=59.22'

TE-11

A=168.54'  
R=1870.00'  
D=5°09'51"  
CH. BRG.=N44°33'50"W  
CH. D.=168.49'

12

UNPLATTED  
PARCEL ID. 1575-331-00-003  
RECEPTION NO. 2020019651  
OWNER: THE CONSCIOUS ALLIANCE  
3801 INDUSTRIAL LANE  
BROOMFIELD, CO 80020  
SITUS ADDRESS: 3801 INDUSTRIAL LANE  
STEWART TITLE GUARANTY COMPANY  
TITLE FILE NO. 1964825-10

Matchline See Sheet 7.08

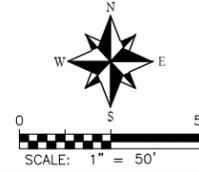
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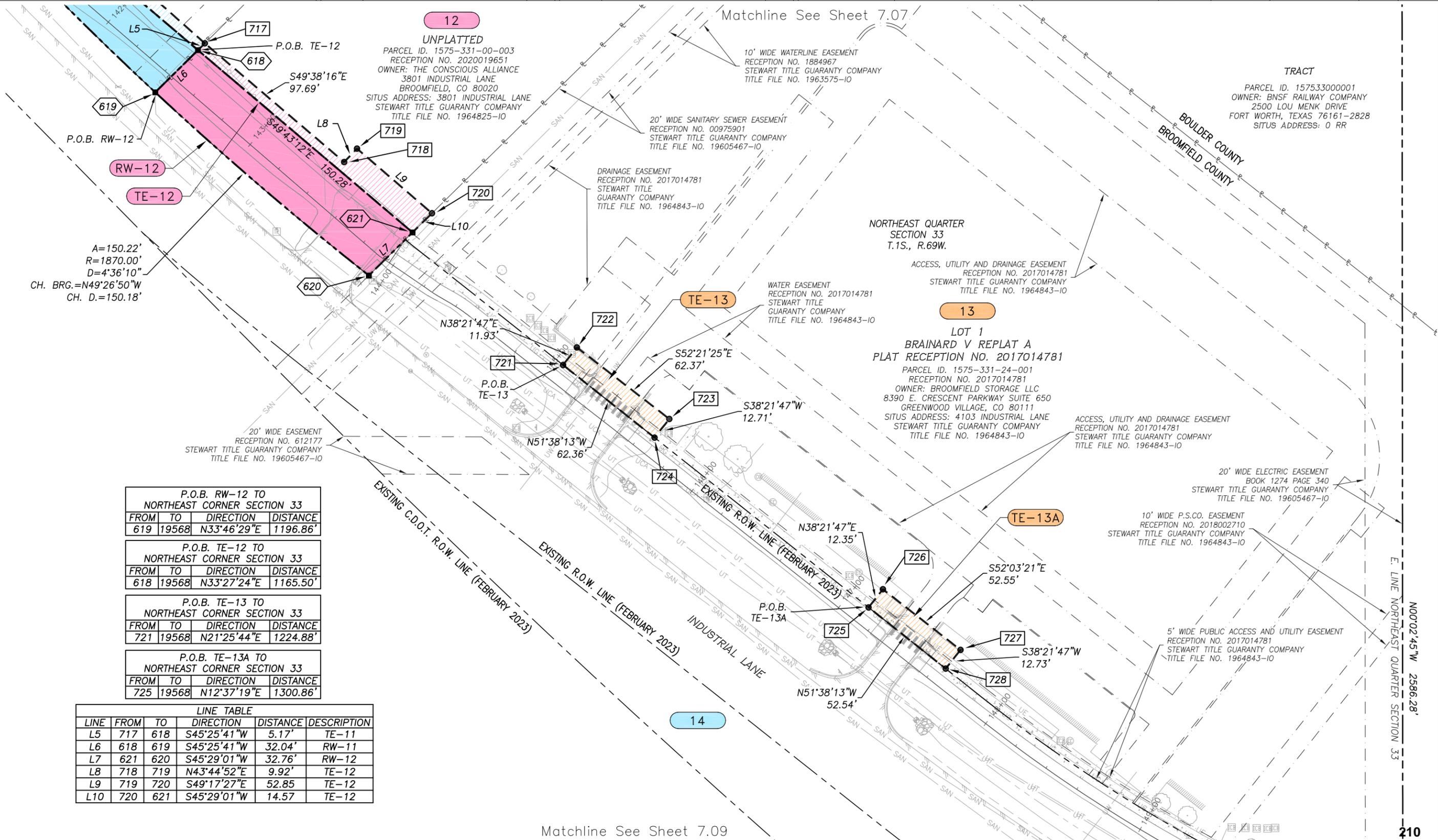
CITY AND COUNTY OF  
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Sheet Revisions		
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3-13-24	Added RW-11 and TE 11	RD

Sheet Revisions		
Date	Description	Initials



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P.O.B. RW-12 TO NORTHEAST CORNER SECTION 33				
FROM	TO	DIRECTION	DISTANCE	
619	19568	N33°46'29"E	1196.86'	

P.O.B. TE-12 TO NORTHEAST CORNER SECTION 33				
FROM	TO	DIRECTION	DISTANCE	
618	19568	N33°27'24"E	1165.50'	

P.O.B. TE-13 TO NORTHEAST CORNER SECTION 33				
FROM	TO	DIRECTION	DISTANCE	
721	19568	N21°25'44"E	1224.88'	

P.O.B. TE-13A TO NORTHEAST CORNER SECTION 33				
FROM	TO	DIRECTION	DISTANCE	
725	19568	N12°37'19"E	1300.86'	

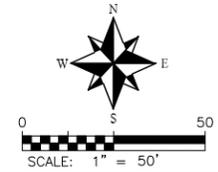
LINE TABLE					
LINE	FROM	TO	DIRECTION	DISTANCE	DESCRIPTION
L5	717	618	S45°25'41"W	5.17'	TE-11
L6	618	619	S45°25'41"W	32.04'	RW-11
L7	621	620	S45°29'01"W	32.76'	RW-12
L8	718	719	N43°44'52"E	9.92'	TE-12
L9	719	720	S49°17'27"E	52.85'	TE-12
L10	720	621	S45°29'01"W	14.57'	TE-12

\$DATE\$ \$PLOT\_INFO\$

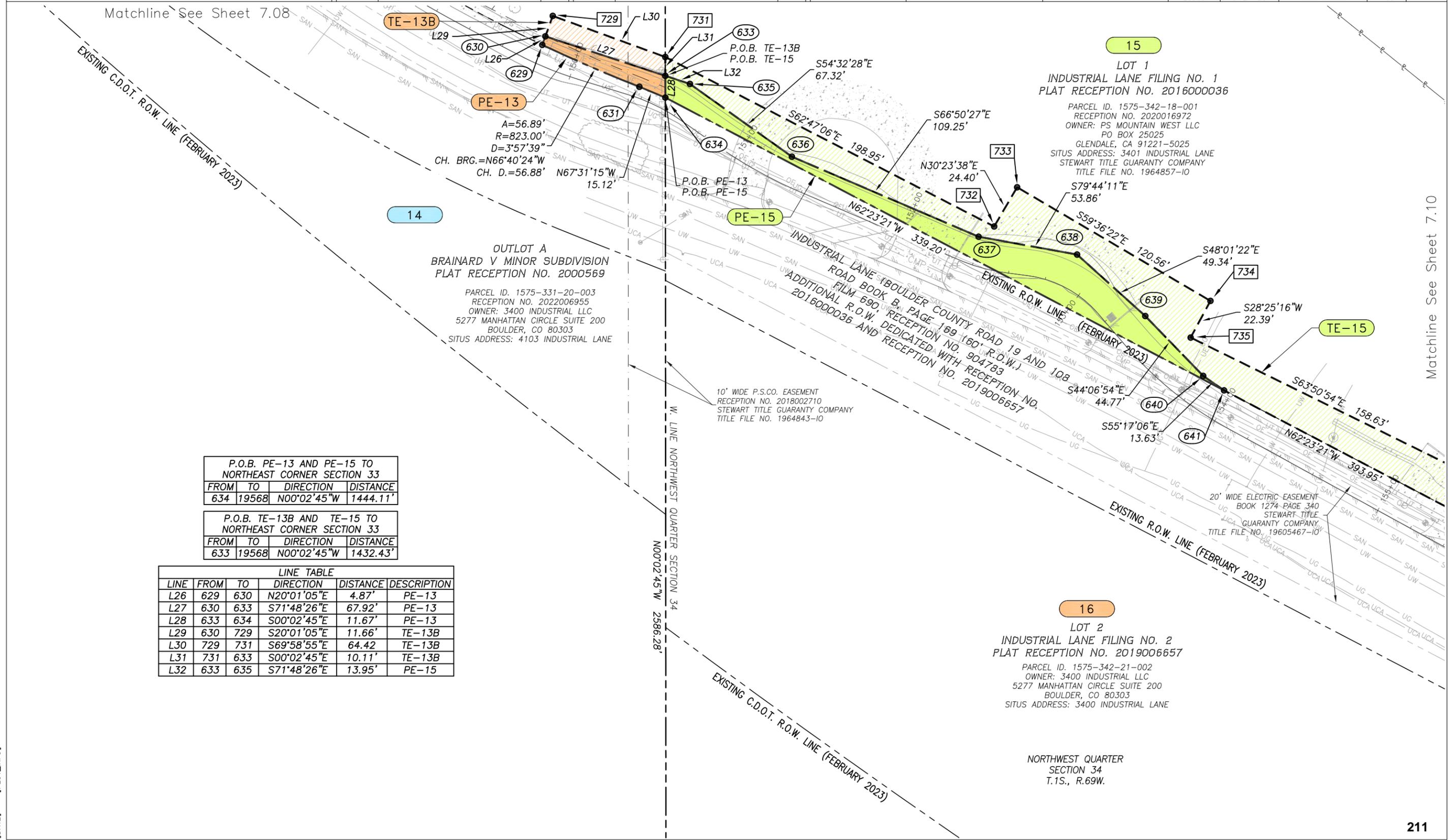


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Right of Way Plans			
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P.O.B. PE-13 AND PE-15 TO NORTHEAST CORNER SECTION 33

FROM	TO	DIRECTION	DISTANCE
634	19568	N00°02'45"W	1444.11'

P.O.B. TE-13B AND TE-15 TO NORTHEAST CORNER SECTION 33

FROM	TO	DIRECTION	DISTANCE
633	19568	N00°02'45"W	1432.43'

LINE TABLE

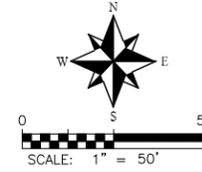
LINE	FROM	TO	DIRECTION	DISTANCE	DESCRIPTION
L26	629	630	N20°01'05"E	4.87'	PE-13
L27	630	633	S71°48'26"E	67.92'	PE-13
L28	633	634	S00°02'45"E	11.67'	PE-13
L29	630	729	S20°01'05"E	11.66'	TE-13B
L30	729	731	S69°58'55"E	64.42'	TE-13B
L31	731	633	S00°02'45"E	10.11'	TE-13B
L32	633	635	S71°48'26"E	13.95'	PE-15

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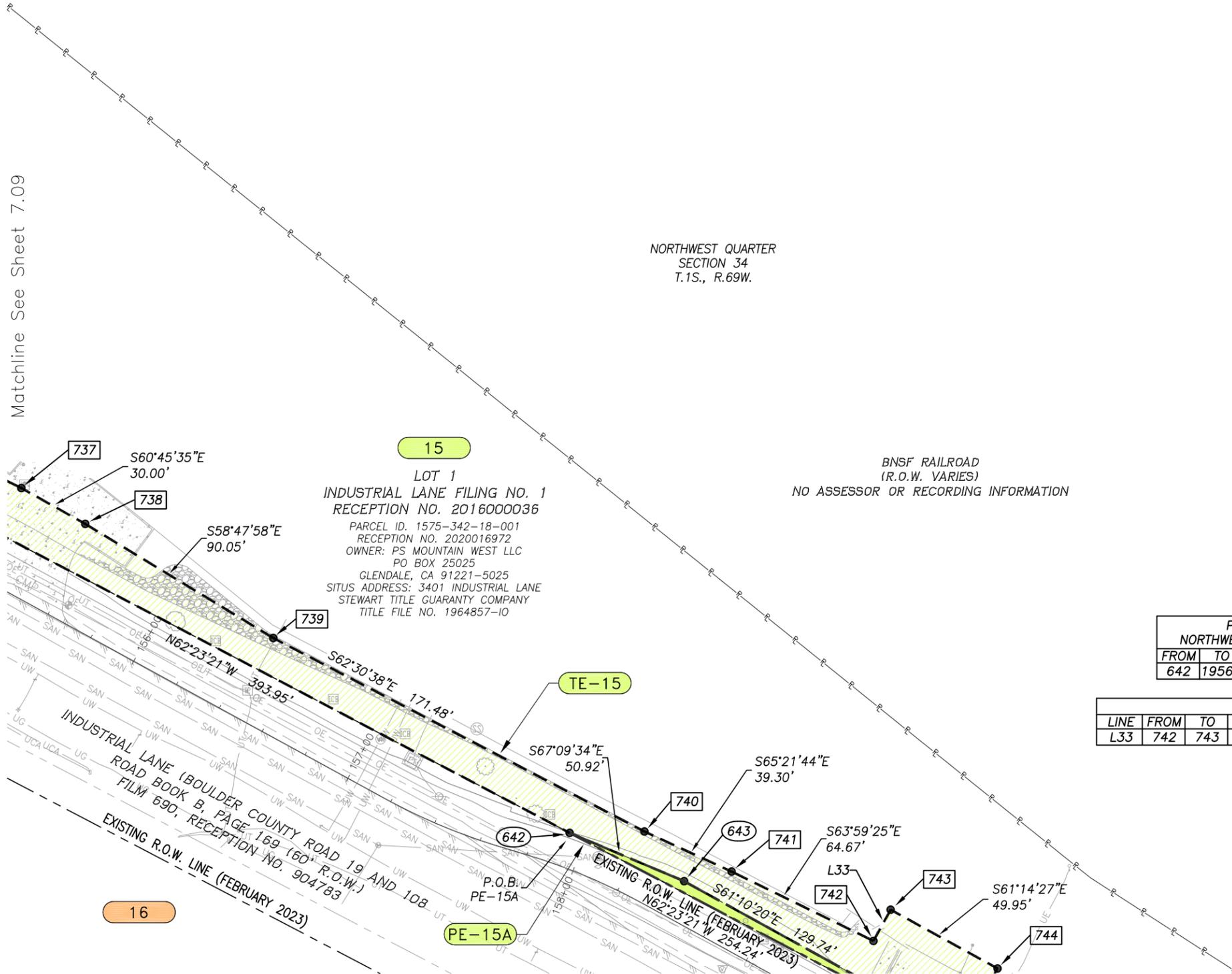


CITY AND COUNTY OF  
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Right of Way Plans			
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P.O.B. PE-15A TO NORTHWEST CORNER SECTION 34			
FROM	TO	DIRECTION	DISTANCE
642	19568	N20°02'36"W	1898.90'

LINE TABLE					
LINE	FROM	TO	DIRECTION	DISTANCE	DESCRIPTION
L33	742	743	N28°57'14"E	14.58'	TE-15

\$DATE\$ \$PLOT\_INFO\$

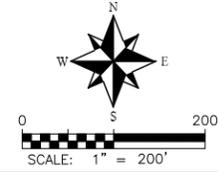




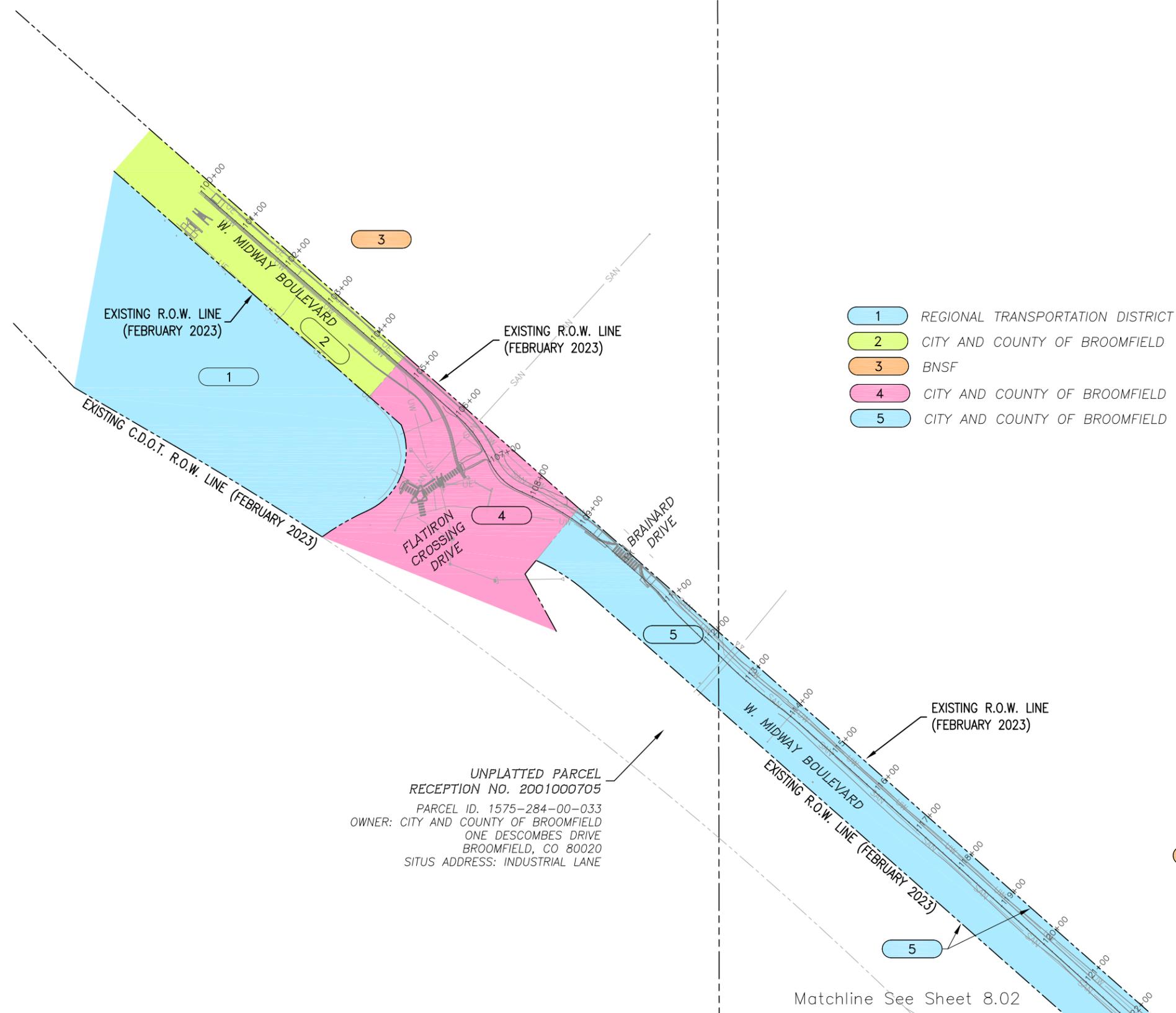
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Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials



Right of Way Plans			
Ownership Sheet			
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- 1 REGIONAL TRANSPORTATION DISTRICT
- 2 CITY AND COUNTY OF BROOMFIELD
- 3 BNSF
- 4 CITY AND COUNTY OF BROOMFIELD
- 5 CITY AND COUNTY OF BROOMFIELD

UNPLATTED PARCEL  
 RECEPTION NO. 2001000705  
 PARCEL ID. 1575-284-00-033  
 OWNER: CITY AND COUNTY OF BROOMFIELD  
 ONE DESCOMBES DRIVE  
 BROOMFIELD, CO 80020  
 SITUS ADDRESS: INDUSTRIAL LANE

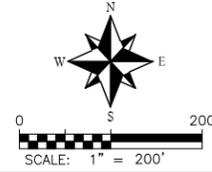
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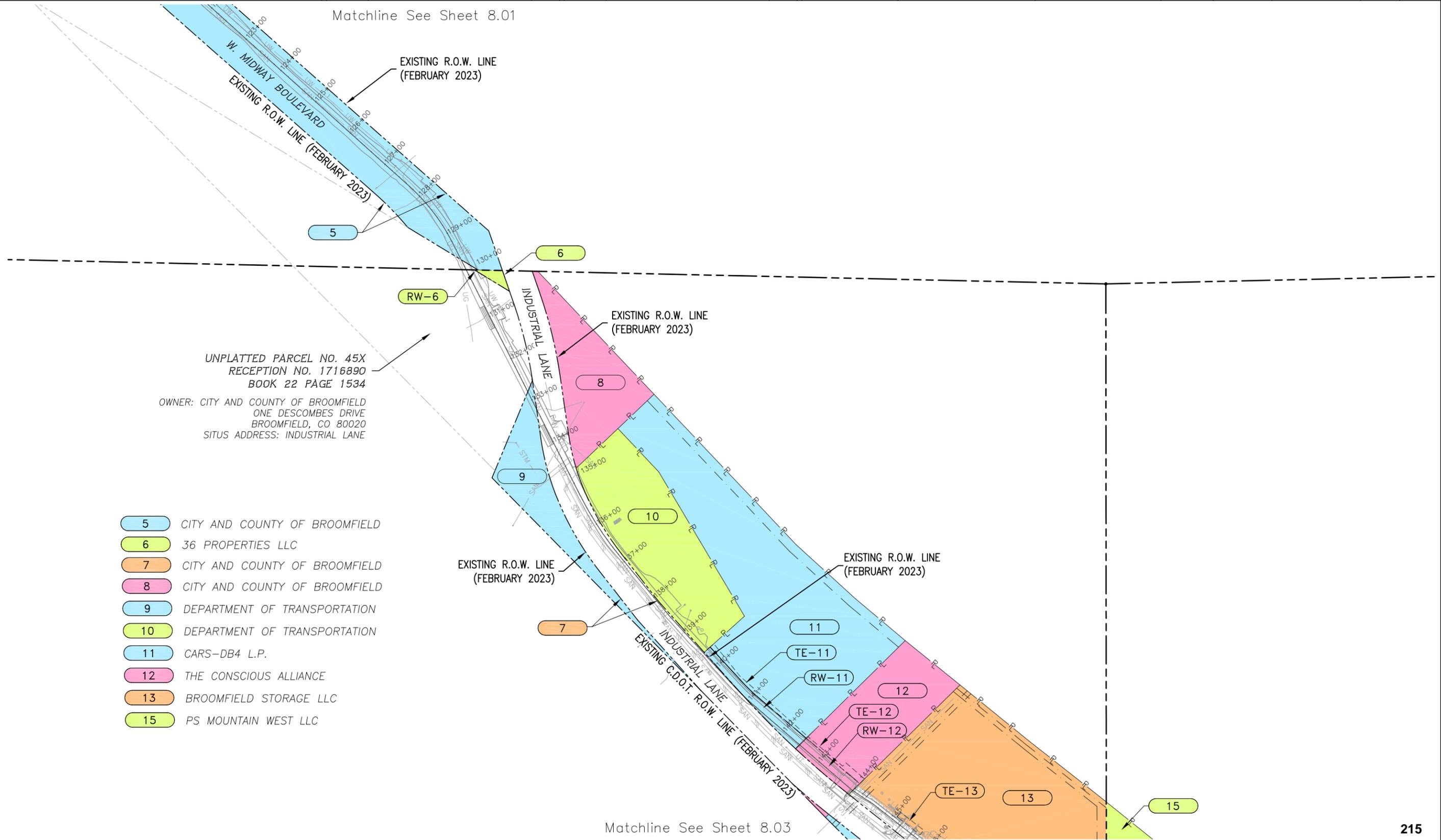
Sheet Revisions		
Date	Description	Initials
3-13-24	Added RW-11 and TE 11	

Sheet Revisions		
Date	Description	Initials



Right of Way Plans			
Ownership Sheet			
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23593	3-13-24	8.01 to 8.03	8.02

Matchline See Sheet 8.01



Matchline See Sheet 8.03

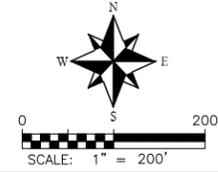
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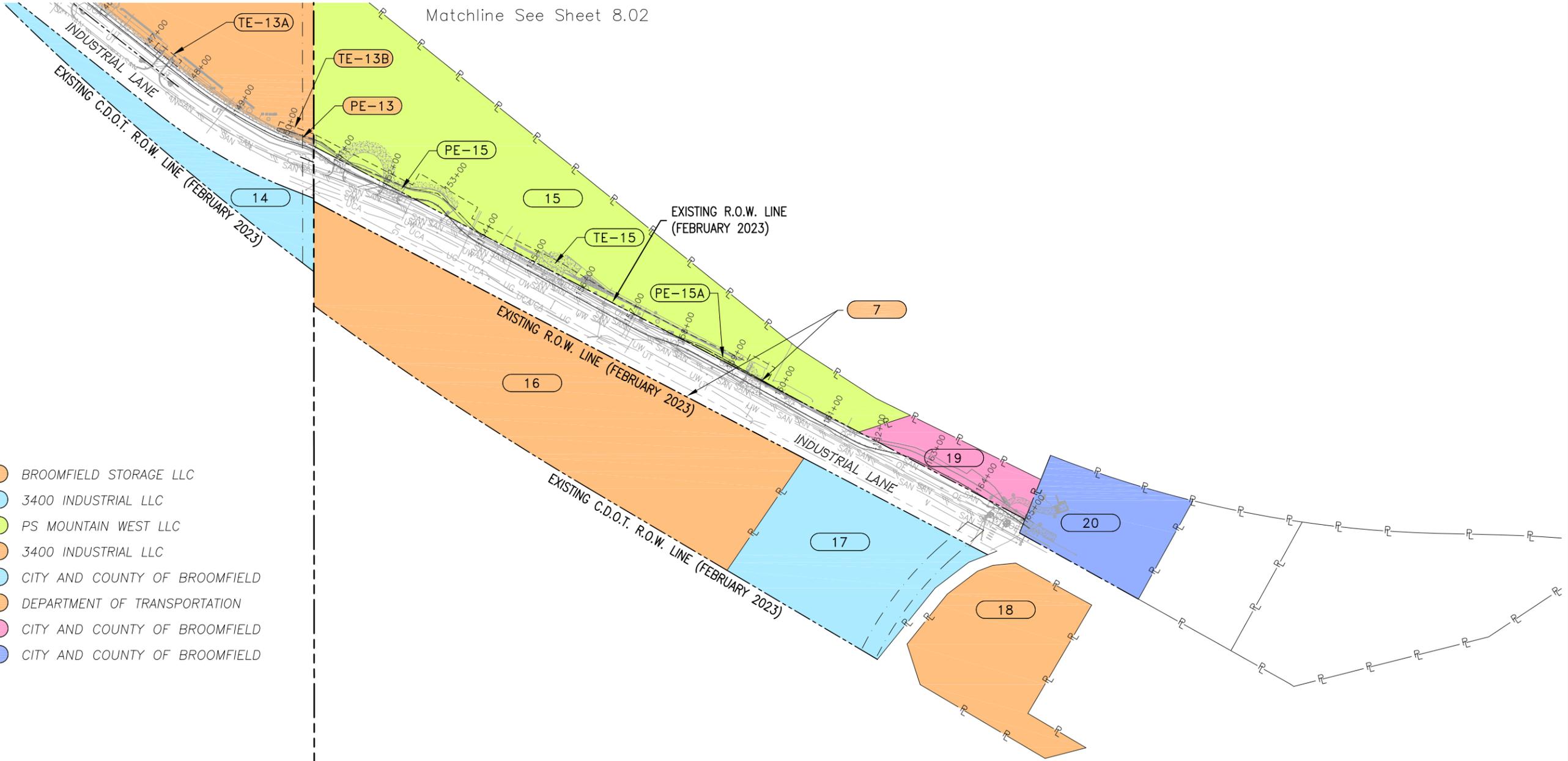
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Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
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Right of Way Plans			
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- 13 BROOMFIELD STORAGE LLC
- 14 3400 INDUSTRIAL LLC
- 15 PS MOUNTAIN WEST LLC
- 16 3400 INDUSTRIAL LLC
- 17 CITY AND COUNTY OF BROOMFIELD
- 18 DEPARTMENT OF TRANSPORTATION
- 19 CITY AND COUNTY OF BROOMFIELD
- 20 CITY AND COUNTY OF BROOMFIELD

\$DATES \$PLOT\_INFO\$