

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

Related Projects:

P. E. UNDER PROJECT:
Project Number
Project Code:

R.O.W. Projects:

R.O.W. Project Description
XXXXXXXXXXXXXXXXXX

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. NHPP 0931-033 STATE HIGHWAY NO. 93 JEFFERSON COUNTY CONSTRUCTION PROJECT CODE NO. 23327

SHEET NO. INDEX OF SHEETS

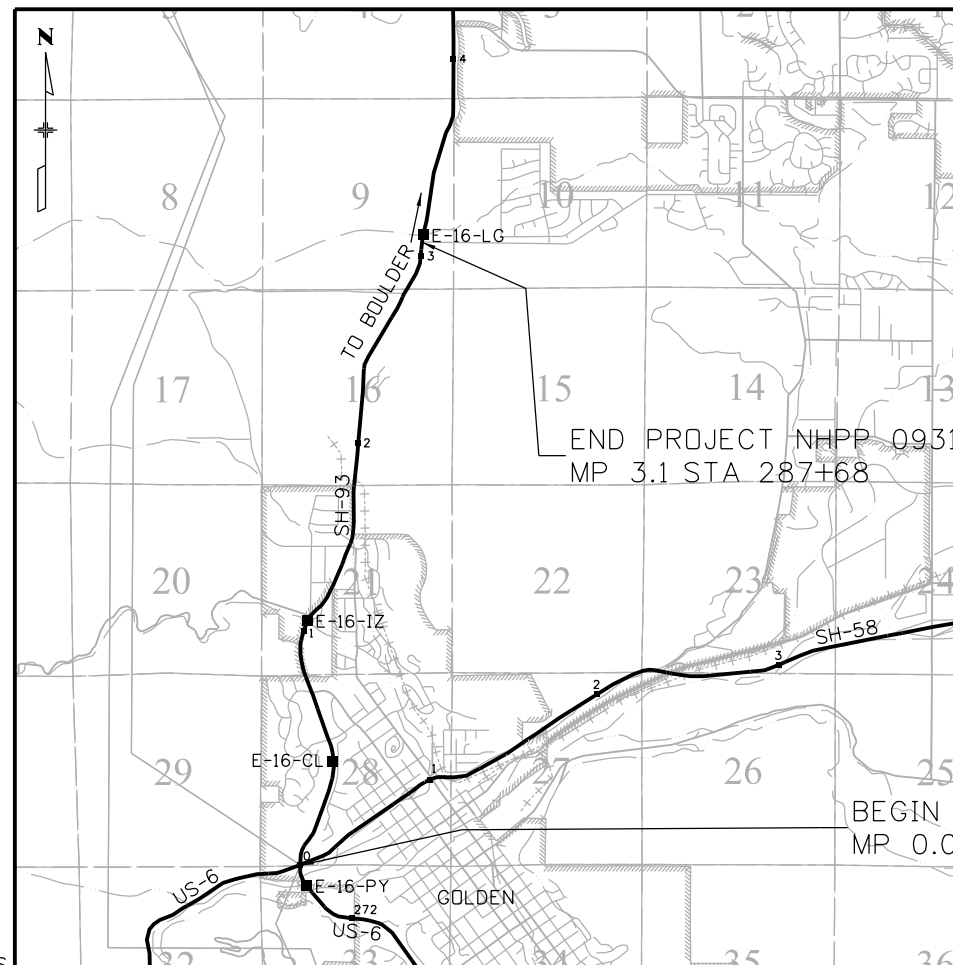
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TABULATION OF LENGTH & DESIGN DATA		
STATION	FEET	
	ROADWAY SH 93	
BEGIN PROJECT NHPP 0931-033 = SH 93 MP 0.0, STA 100+00	18768	
END PROJECT NHPP 0931-033 = SH 93 MP 3.1, STA 287+68		
SUMMARY OF PROJECT LENGTH	FEET	MILES
PROJECT GROSS LENGTH	18768	3.55

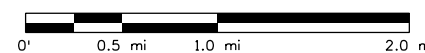
DESIGN DATA	SH 93
DESIGN SPEED	50 MPH
POSTED SPEED	45/50 MPH
MINIMUM RADIUS OF CURVE	833 FT
MAXIMUM GRADE	MATCH EX.
MINIMUM S.S.D HORIZONTAL	425 FT
2020 DESIGN TRAFFIC (ADT)	26793
2040 DESIGN TRAFFIC (ADT)	28243
DHV TRUCK %	6.7%

PROJECT DESCRIPTION:

THE PROJECT SITE LOCATION IS THE CITY OF GOLDEN AND UNINCORPORATED JEFFERSON COUNTY. THE WORK CONSISTS OF RESURFACING SH 93 FROM THE SH58/US6/SH93 INTERSECTION NORTH TO 58TH AVE. THE TOTAL PROJECT LENGTH IS FROM MP 0.0 TO MP 3.1. ADDITIONAL IMPROVEMENTS INCLUDE SIGNAL REPLACEMENT AT 58TH AVE, WIDENING BETWEEN WASHINGTON AND MESA DR, CURB RAMP AND GUARDRAIL UPGRADES, MEDIAN INSTALLATION AT PINE RIDGE, SNOW FENCE ADDITION, FINAL SIGNING AND STRIPING, AND RUMBLE STRIP ADDITIONS.



PROJECT LOCATION MAP



Print Date: 10/17/2022

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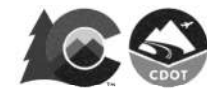
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Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 1

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JDS

As Constructed

No Revisions:

Revised:

Void:

Contract Information

Contractor:	
Resident Engineer:	
Project Engineer:	
PROJECT STARTED: / /	ACCEPTED: / /
Comments:	

Project No./Code

NHPP 0931-033

23327

Sheet Number 1

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<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12
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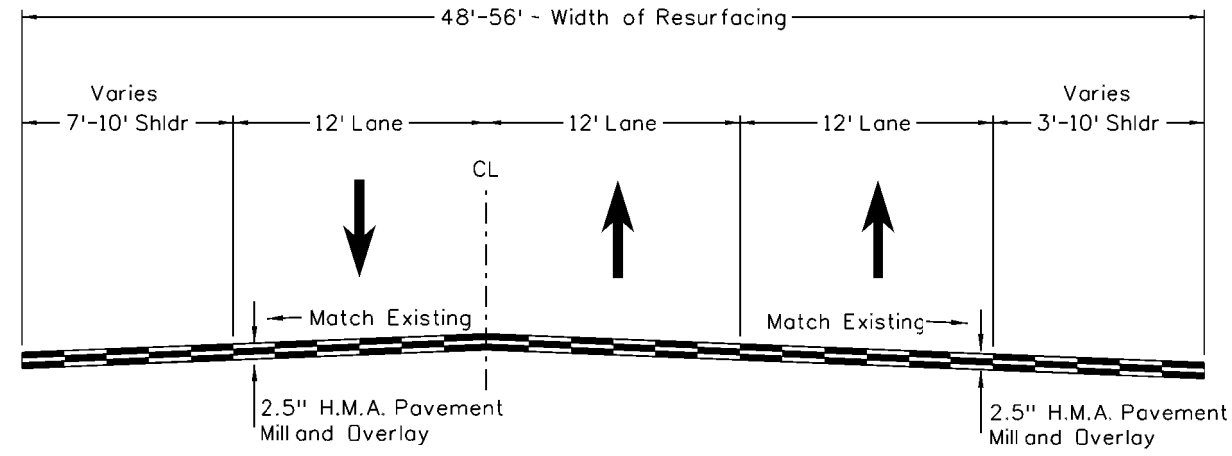
COLORADO
 DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 31, 2019
 Revised on September 6, 2022

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 THE OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868 Construction Engineering Services JBK	<h1>STANDARD PLANS LIST</h1>	STANDARD PLAN NO.	
Creation Date: 07/31/19		Date:	Comments			STANDARDS PLANS LIST	
Designer Initials: JBK	(R-X)					Standard Sheet No. 1 of 1	
Last Modification Date: 09/06/22	(R-X)					Project Sheet Number: 2	
Detailer Initials: LTA	(R-X)						
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English		(R-X)					

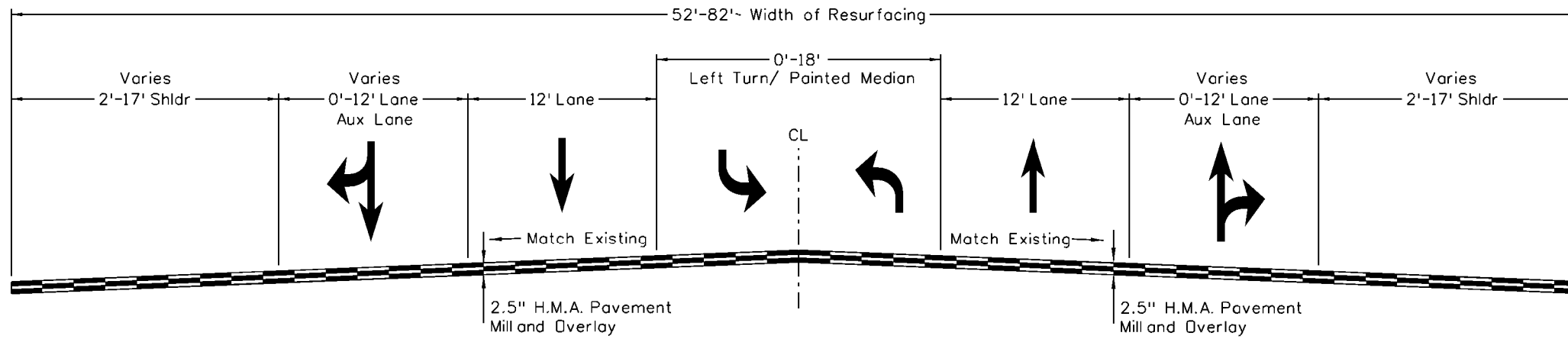
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SOUTHBOUND SH 93

STA 107+43 TO 127+62

NORTHBOUND SH 93



SOUTHBOUND SH 93

STA 101+48 TO 107+43
 STA 134+07 TO 144+10
 STA 150+72 TO 159+04
 STA 168+03 TO 218+38
 STA 265+44 TO 273+67
 STA 280+85 TO 284+53

NORTHBOUND SH 93

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

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 Region 1
 425 A Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6959
 FAX: 720-497-6951
 JDS

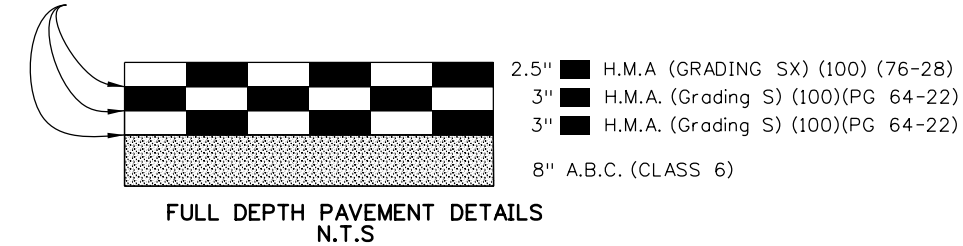
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TYPICAL SECTIONS			
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Detailer:	AF		
Sheet Subset:	TYP. SEC.	Subset Sheets:	02 of 04

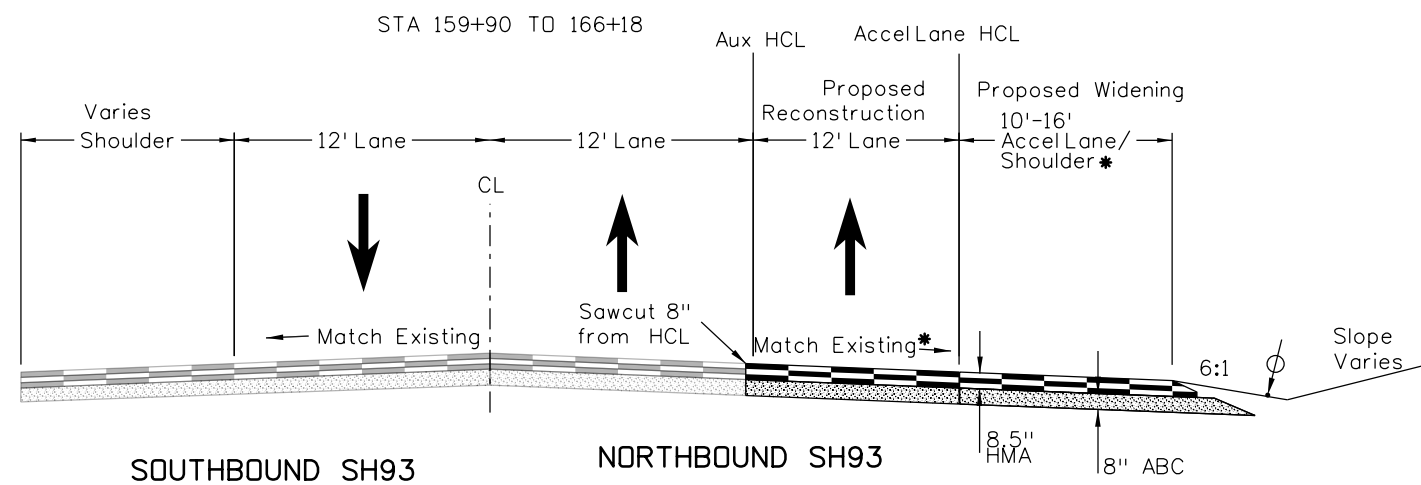
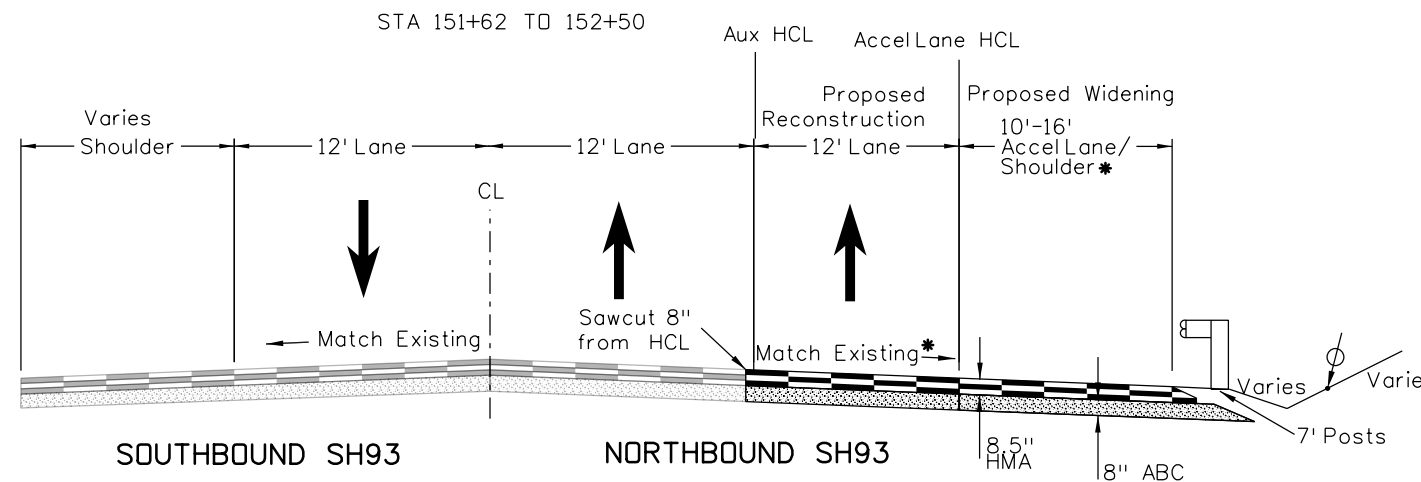
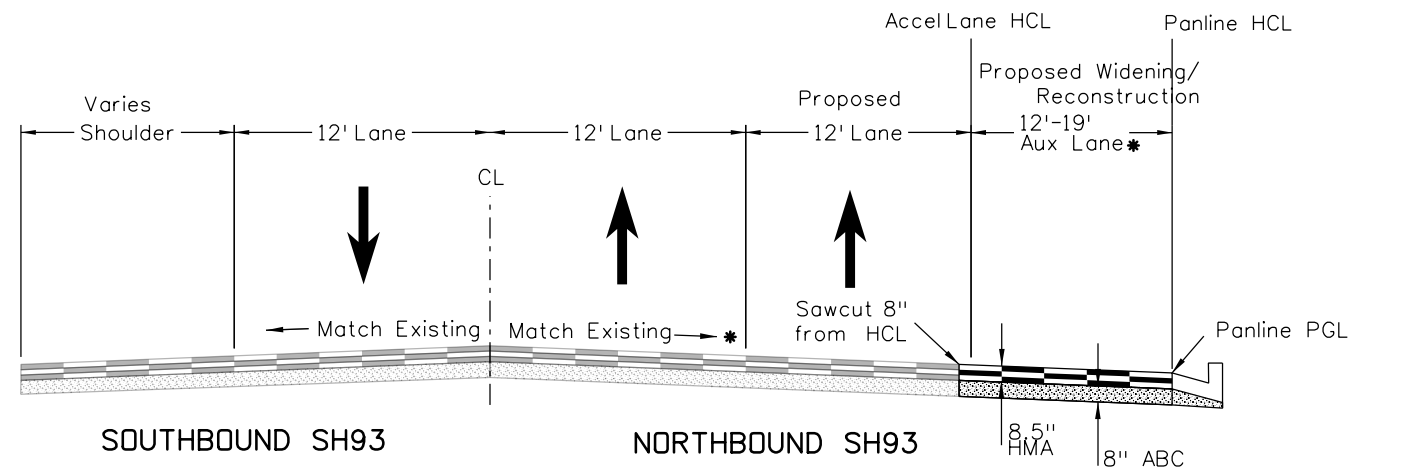
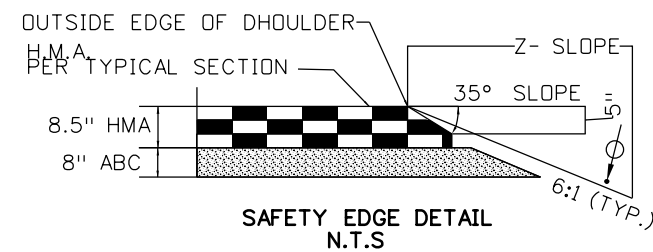
Project No./Code
NHPP 0931-033
23327
Sheet Number 4

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TACK CDAT



GUARDRAIL END CONDITION SLOPE TABLE			
STATION START	STATION FINISH	FORESLOPE	BACKSLOPE
159+90	160+70	6:1	4:1
160+70	160+89	6:1	TRANSITION 4:1 TO 3:1
160+89	161+15.5	6:1	TRANSITION 3:1 TO 4:1
161+15.5	161+20	6:1	4:1
161+20	161+42	6:1	TRANSITION 4:1 TO 3:1
161+42	161+70	6:1	3:1
161+70	161+70.6	TRANSITION 6:1 TO 3:1	TRANSITION 3:1 TO 2:1
161+70.6	165+65.7	3:1	2:1
165+65.7	165+70.6	TRANSITION 3:1 TO 6:1	TRANSITION 2:1 TO 3:1
165+70.6	166+18	6:1	3:1



- MINIMUM 6" TOPSOIL
- HMA HOT MIX ASPHALT
- ABC AGGREGATE BASE COURSE
- HCL HORIZONTAL CONTROL LINE
- PGL PROFILE GRADE LINE
- * SEE CROSS SECTIONS

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

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

Region 1

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Phone: 720-497-6959
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As Constructed
No Revisions:
Revised:
Void:

TYPICAL SECTIONS			
Designer:	AF	Structure	
Detailer:	AF	Numbers	
Sheet Subset:	TYP. SEC.	Subset Sheets:	03 of 04

Project No./Code
NHPP 0931-033
23327
Sheet Number 5

GENERAL PROJECT DESCRIPTION:

THE PROJECT IS LOCATED IN JEFFERSON COUNTY AND THE CITY OF GOLDEN ON SH 93. MAJOR ITEMS INCLUDE RESURFACING OF SH 93 FROM US 6/ SH 58 TO 58TH AVE, UPGRADING CURB RAMPS TO ADA STANDARDS, GUARDRAIL IMPROVEMENTS, SIGNAL REPLACEMENT AT 58TH AVE, WIDENING ON THE EAST SIDE OF SH 93 FROM WASHINGTON TO MESA DR, DRAINAGE/ DITCH IMPROVEMENTS, MEDIAN ADDITION AT PINE RIDGE, SNOW FENCE ADDITION, FINAL SIGNING AND STRIPING, AND CENTERLINE RUMBLE STRIPS

ALL CONSTRUCTION SHALL BE PER THE 2022 CDOT STANDARD SPECIFICATIONS AND ALL APPLICABLE CDOT STANDARD AND PROJECT SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A CONSTRUCTION PERMIT FROM THE CITY OF GOLDEN.

THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A ROW PERMIT FROM THE CITY OF GOLDEN FOR ALL WORK WITHIN THE CITY OF GOLDEN ROW.

SECTION 200 – EARTHWORK

- DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
-FULL DEPTH OF ALL EMBANKMENTS
-TO A DEPTH OF 0.5 FEET FOR ALL BASES OF CUTS AND FILLS.
- MOISTURE DENSITY CONTROL SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- IMPORTED FILL AND IMPORTED STRUCTURAL FILL SHALL MEET THE REQUIREMENTS FOR CLASS 2 SEVERITY OF SULFATE EXPOSURE. ADDITIONALLY, IMPORTED FILL SHALL HAVE LESS THAN 40 PERCENT PASSING THE NO. 200 SIEVE, A LIQUID LIMIT LESS THAN 30, AND A PLASTICITY INDEX LESS THAN 15.
- EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
- TO PROVIDE FOR ADEQUATE SULFATE RESISTANCE IN ALL CONCRETE SUPPLIED, SEVERITY OF POTENTIAL EXPOSURE SHALL BE CLASS 0 FOR THIS PROJECT. THE CONTRACTOR MAY AT THEIR OWN EXPENSE HAVE A CERTIFIED LABORATORY TEST THE SUBGRADE AS PER THE FIELD MATERIALS MANUAL. TESTING SHALL BE AT THE SAME SCHEDULE AND FREQUENCY AS REQUIRED FOR A PRELIMINARY SOIL SURVEY. THE CONTRACTOR MAY PROPOSE A DIFFERENT CLASS OF EXPOSURE FOR THE PROJECT BASED ON THOSE TEST RESULTS.
- ALL MATERIAL REMOVED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED IN THE PLANS. SEE TRAFFIC GENERAL NOTES REGARDING SIGNAL EQUIPMENT.
- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. THIS WORK WILL NOT BE MEASURED AND PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
- TOPSOIL SHALL BE SALVAGED, STORED, AMENDED, AND PLACED IN ACCORDANCE WITH REVISED 207 AND 212 SPECIFICATIONS. SEE REMOVAL AND SWMP SHEETS FOR DETAILS.

SECTION 400 – PAVEMENT

- FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIAL, THE FOLLOWING RATES OF APPLICATION WERE USED:
HMA.....@ 110 LBS / SQ. YD. / INCH
AGGREGATE BASE COURSE (CLASS 6).....@ 133 LBS / CU. FT.
TACK COAT DILUTED EMULSIFIED ASPHALT (SLOW SETTING).....@ 0.10 GAL / SQ. YD. (DILUTED)
- EXISTING ASPHALT AND CONCRETE PAVEMENT THAT IS TO REMAIN SHALL BE TRIMMED TO A NEAT EDGE BY FULL-DEPTH SAWING PRIOR TO REMOVALS, WIDENING OR EXTENDING. SAWING WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF ASPHALT OR REMOVAL OF CONCRETE PAVEMENTS (ITEMS 202).

- ANY CONCRETE PAVEMENT OR ASPHALT PAVEMENT WHICH IS TO REMAIN AND IS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- IT IS ESTIMATED THAT 5 SY OF ITEM 412-00190 CONCRETE PAVEMENT (PATCHING) WILL BE REQUIRED TO REPAIR PREEXISTING DAMAGE TO CONCRETE PAVEMENT DESIGNATED TO REMAIN IN PLACE. THIS WORK SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL SAW WATER SHALL BE PROPERLY CONTAINED AND NOT ALLOWED TO DRAIN TO ANY STORM DRAINS OR WATERWAYS. CONTAINMENT OF SAW WATER AND OTHER DEBRIS SHALL BE INCLUDED IN THE COST OF THE WORK.
- ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL-WIDTH BEFORE A SUCCEEDING LAYER IS PLACED.
- A TACK COAT IS REQUIRED BETWEEN LAYERS OF BITUMINOUS PAVEMENT AND WHERE BITUMINOUS PAVEMENT IS PLACED NEXT TO EDGES OF PAVEMENT. RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.
- THE ASPHALT PAVEMENT SMOOTHNESS CATEGORY IS MRI CATEGORY 1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND THE DEPARTMENT BY EMAIL AT DOT_PROFILES@STATE.CO.US AT LEAST FIVE WORKING DAYS IN ADVANCE OF HIS INTENTION TO PERFORM SMOOTHNESS ACCEPTANCE (SA) TESTING.

SECTION 600 – MISCELLANEOUS CONSTRUCTION

- IT IS ESTIMATED THAT THE FOLLOWING ITEMS WILL BE REQUIRED ON THIS PROJECT:

201-00000	CLEARING AND GRUBBING	1 LS
625-00000	CONSTRUCTION SURVEY	1 LS
620-00005	FIELD OFFICE (SPECIAL)	1 EACH
620-00012	FIELD LABORATORY (CLASS 2)	1 EACH
620-00020	SANITARY FACILITY	1 EACH
626-00000	MOBILIZATION	1 LS
626-01113	PUBLIC INFORMATION SERVICES (TIER III)	200 DAYS

- THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING SIGNS DAMAGED DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- ALL LANDSCAPING WITHIN THE PROJECT WORK AREA THAT IS DAMAGED AND NOT SPECIFIED FOR REMOVAL IN THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- PAVEMENT MARKING SHALL BE FULL COMPLIANCE AT END OF EACH DAY'S WORK

SECTION 600 – MISCELLANEOUS CONSTRUCTION (CONT.)

- IT IS ESTIMATED THAT THE FOLLOWING TRAFFIC CONTROL ITEMS WILL BE REQUIRED ON THIS PROJECT:

630-00000	FLAGGING	2,300 HOURS
630-00006	UNIFORMED TRAFFIC CONTROL VEHICLE	800 HOURS
630-00007	TRAFFIC CONTROL INSPECTION	55 DAYS
630-00012	TRAFFIC CONTROL MANAGEMENT	115 DAYS
630-80335	BARRIER (TYPE 3 M-A) (TEMPORARY)	4 EACH
632-00000	NIGHT WORK LIGHTING	1 LS

- THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION, SHALL BE RESET AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR AND ENGINEER SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION. SEE TABULATION OF SURVEY.

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	File Name: 23327DES_General Notes 1.dgn	Date:	Comments	Init.		No Revisions:				NHPP 0931-033
	Horiz. Scale: 1:1000 Vert. Scale: As Noted					Revised:	Designer: AF	Structure Numbers		23327
						Void:	Sheet Subset: GEN NOTES		Subset Sheets: 01 of 02	Sheet Number 7

ENVIRONMENTAL

1. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MINIMIZE SOIL DISTURBANCE TO THE GREATEST EXTENT POSSIBLE. VEHICLES SHALL BE INSPECTED BEFORE THEY ARE USED FOR CONSTRUCTION TO ENSURE THAT THEY ARE FREE OF SOIL AND DEBRIS CAPABLE OF TRANSPORTING NOXIOUS WEED SEEDS OR ROOTS. HEAVY CONSTRUCTION EQUIPMENT SHALL BE CLEANED PRIOR TO USE ON THE PROJECT SITE. STAGING OF EQUIPMENT WILL NOT BE PERMITTED IN WEED-INFESTED AREAS.
3. THE CONTRACTOR SHALL NOT PARK, STAGE, OR STOCKPILE IN ANY PARKS OR RECREATIONAL AREAS. ALL SIDEWALKS AND MULTI-USE PATHS SHALL REMAIN OPEN TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION, AND DETOURS WITH SIGNAGE SHALL BE PROVIDED DURING ANY NECESSARY TEMPORARY CLOSURES.
4. THE CDOT PALEONTOLOGIST SHALL BE KEPT APPRAISED OF THE PROJECT EXCAVATION SCHEDULE FOR COORDINATION OF MONITORING EFFORTS AS NEEDED. THE PALEONTOLOGIST CAN BE CONTACTED VIA OFFICE PHONE AT (303) 757-9632 OR AT NICOLE.PEAVEY@STATE.CO.US.
5. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AGENCY(S) NOISE ORDINANCES AND/OR OTHER RESTRICTIONS APPLICABLE TO NIGHTTIME CONSTRUCTION ACTIVITIES FOR PROJECTS WITHIN THE LOCAL MUNICIPAL COVERAGE AREAS. PROJECTS FALLING WITHIN UNINCORPORATED AREAS IF A COUNTY WILL BE GOVERNED BY COUNTY CODE. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL AGENCY(S) AND/OR CDOT FOR ALL NECESSARY NOISE EXEMPTIONS OR NOTICES, NOISE PERMIT VARIANCES, AND APPROVALS TO DO NIGHT WORK AS REQUIRED. IF LOCAL AGENCY NIGHTTIME NOISE RESTRICTIONS DO NOT EXIST AND THERE ARE NOISE SENSITIVE RECEPTORS IN THE PROJECT AREA, THE APPROVALS TO DO NIGHTTIME WORK SHALL BE APPROVED THROUGH THE CDOT ENGINEER. STANDARD NOISE CONTROLS AND BEST MANAGEMENT PRACTICES FOR REDUCING EQUIPMENT AND CONSTRUCTION ACTIVITY NOISE LEVELS SHALL BE UTILIZED IN ALL CASES AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONSISTENTLY EMPLOY WHEN WORKING IN NOISE SENSITIVE AREAS AFTER 7 P.M.
6. FOR THIS PROJECT, THE CONTRACTOR IS REQUIRED TO REVIEW AND UNDERSTAND ALL LOCAL AGENCY ORDINANCES WITH PROJECT APPLICABLE NIGHT RESTRICTIONS. WHEN CONDITIONS APPLY, THE CONTRACTOR SHALL SUBMIT A NIGHTTIME NOISE ORDINANCE MEMORANDUM(S) TO ALL JURISDICTIONAL LOCAL AUTHORITIES. THIS MEMORANDUM SHALL REQUEST CONSTRUCTION NOISE EXEMPTIONS FOR NIGHT WORK OPERATIONS (AT LEAST TWO WEEKS PRIOR TO THE PROPOSED NIGHT WORK START DATE) WHERE CONSTRUCTION WORK IS SCHEDULED BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. THE FOLLOWING INFORMATION SHOULD BE INCLUDED IN THE EXEMPTION REQUEST SUBMITTALS AND SENT TO THE CITY/COUNTY ENGINEER: (1) REQUESTING ENTITY, (2) CONTACT PERSON AND PHONE NUMBER, (3) LOCATION OF THE WORK, (4) REASONS NIGHT WORK IS BEING REQUESTED, (5) TYPE OF ACTIVITIES PROPOSED TO OCCUR AT NIGHT, (6) EQUIPMENT PROPOSED TO BE USED AT NIGHT, (7) START AND END DATE PROPOSED, (8) TOTAL NUMBER OF NIGHTS WORK IS PROPOSED TO OCCUR.
7. ALL NIGHTTIME CONSTRUCTION ACTIVITIES SUBJECT TO NOISE LEVEL RESTRICTIONS CANNOT BEGIN UNTIL THE NECESSARY DOCUMENTATION AND NOTIFICATIONS HAVE BEEN APPROVED BY THE LOCAL AGENCY AUTHORITY, THE CDOT ENGINEER AND/OR THE REGION'S NOISE SPECIALIST. ALL EXEMPTION REQUESTS AND PERMITTING REQUIREMENTS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE WORK.
8. IF AN ASBESTOS CONTAINING MATERIAL IS ENCOUNTERED OR SUSPECTED, INCLUDING WITH BURIED UTILITIES, WORK WILL STOP IMMEDIATELY AND THE FOLLOWING CDOT PROPERTY MANAGEMENT PERSONNEL WILL BE CONTACTED: THERESA SANTANGELO (303-512-5524) AND PHIL KANGAS (303-512-5519).
9. THIS PROJECT HAS OBTAINED A STATE STORMWATER PERMIT (CDPS-SCP). CONTRACTOR WILL BE REQUIRED TO TRANSFER ON AS OPERATOR AND FOLLOW ALL PERMIT AND CDOT REQUIREMENTS.
10. 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.

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.

11. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS THROUGHOUT THE PROJECT FOR PEDESTRIANS AND BICYCLISTS VIA EXISTING ROUTES OR PROVIDE TEMPORARY ALL-WEATHER ALTERNATE ROUTES AS NEEDED. THE HIGHWAY 93 TRAIL CLOSURE REQUIRED TO CONSTRUCT THE AUXILIARY LANE SHALL BE MANAGED VIA THE DETOUR ROUTE INDICATED ON SHEET NUMBER 131.
12. THE CONTRACTOR SHALL NOTIFY ROD TARULLO, THE CITY OF GOLDEN PARKS AND RECREATION DIRECTOR (EMAIL: RTARULLO@CITYOFGOLDEN.NET, PHONE: 303-384-8120), AT LEAST 2 WEEKS PRIOR TO CLOSING AND DETOURING THE HIGHWAY 93 TRAIL TO ALLOW FOR PUBLIC NOTIFICATION.
13. SUITABLE RAPTOR HABITAT IS PRESENT IN THE WORK AREA. THE CONTRACTOR SHALL COMPLY WITH THE MIGRATORY BIRD TREATY ACT (MBTA) AT ALL TIMES, INCLUDING CONDUCTING PRE-CONSTRUCTION SURVEYS FOR NESTING BIRDS SET FORTH BY THE U.S. FISH AND WILDLIFE SERVICE (USFWS) AND THE COLORADO PARKS AND WILDLIFE (CPW) BY A QUALIFIED BIOLOGIST, AS PER CDOT'S REVISION OF SECTION 240 PROJECT SPECIAL PROVISION. THE INCIDENTAL TAKE OF A MIGRATORY BIRD SHALL BE REPORTED TO THE ENGINEER. DOCUMENTATION OF THE NEST SURVEYS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. IF AN ACTIVE NEST IS LOCATED IN OR NEAR THE PROJECT AREA, THE CPW SHALL BE CONTACTED REGARDING THE USE OF SEASONAL PROTECTIVE BUFFERS TO PREVENT DISTURBANCE TO NESTING RAPTORS DURING CONSTRUCTION.
14. IF SOIL OR GROUNDWATER CONTAMINATION IS ENCOUNTERED DURING EXCAVATION OR DRILLING ACTIVITIES, WORK WILL STOP IMMEDIATELY AND THE PROCEDURES OUTLINED IN THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) SPECIFICATION 250 -ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT- SHALL BE FOLLOWED.
15. THE COATINGS OF THE TRAFFIC LIGHT POLES AT 58TH AVE AND SH 93 CONTAIN LEAD. ALL PAINTED COMPONENTS DESTINED FOR DISPOSAL OR REPLACEMENT WILL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND RECYCLING OF THE PAINTED COMPONENTS SHALL BE DONE IN COMPLIANCE WITH CDOT 250 ENVIRONMENTAL HEALTH & SAFETY MANAGEMENT SPEC (INCLUDING, BUT NOT LIMITED TO SUBSECTION 250.04) AND ALL APPLICABLE OSHA, LOCAL, STATE AND FEDERAL REGULATIONS.
16. IT IS ESTIMATED THAT **24 HOURS OF WILDLIFE BIOLOGIST, ITEM 240-0000** WILL BE REQUIRED FOR PROTECTION OF MIGRATORY BIRDS. SEE PSP SECTION 240.

UTILITIES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 105.11 IN THE STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH UTILITY OWNERS IN THEIR REMOVAL, ADJUSTMENT, AND/OR RELOCATION OPERATIONS SO THAT THE UTILITY WORK CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.
2. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES 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 THE UTILITY NOTIFICATIONS CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AT PIPES, INLETS, CAISSONS, AND OTHER AREAS OF EXCAVATION AS NECESSARY TO ENSURE THE UTILITIES WILL NOT BE IMPACTED.
4. IT IS ESTIMATED THAT **150 HOURS** WILL BE REQUIRED FOR **POTHOLING**. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE APPROPRIATE UTILITY REPRESENTATIVES TO BE ONSITE DURING POTHOLING AND SHALL LIKEWISE BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAYBE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL REFER TO THE UTILITY SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
5. AN ELECTRICAL PERMIT MUST BE OBTAINED BY THE ELECTRICAL CONTRACTOR FOR ALL PHASES OF ELECTRICAL INSTALLATIONS. ALL ELECTRICAL WORK SHALL BE PERFORMED BY STATE LICENSED PERSONNEL.
6. CONTRACTOR SHALL POTHOLE ITS FIBER IN THE AREA OF EXCAVATION AND CALL CDOT ITS TO CONFIRM DESIGN ASSUMPTION IN THE FIELD 303-512-5805.

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	File Name: 23327DES_GeneralNotes 2.dgn		Date:	Comments	Init.		No Revisions:				NHPP 0931-033	
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY														PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.													PLAN	AS CONST.
			240-00000	Wildlife Biologist	HOUR	24														24	
			304-06000	Aggregate Base Course (Class 6)	TON	1,854														1,854	
			403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	258														258	
			403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	1,360														1,360	
			403-34871	Hot Mix Asphalt (Grading SX) (100) (PG 76-28)	TON	18,988														18,988	
			411-10255	Emulsified Asphalt (Slow-Setting)	GAL	14,633														14,633	
			412-00190	Concrete Pavement (Patching)	SY	5														5	
			503-00018	Drilled Shaft (18 Inch)	LF	5														5	
			503-00036	Drilled Shaft (36 Inch)	LF	38														38	
			503-00048	Drilled Shaft (48 Inch)	LF	36														36	
			606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	2,762														2,762	
			606-01370	Transition Type 3G	EACH	4														4	
			606-02003	End Anchorage (Nonflared)	EACH	5														5	
			606-02005	End Anchorage (Flared)	EACH	13														13	
			607-11525	Fence (Plastic)	LF	800														800	
			607-32000	Fence Picket Snow	LF	1,800														1,800	
			607-60116	16 Foot Gate	EACH	2														2	
			608-00006	Concrete Sidewalk (6 Inch)	SY	163														163	
			608-00010	Concrete Curb Ramp	SY	494														494	
			609-21010	Curb and Gutter Type 2 (Section I-B)	LF	307														307	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	784														784	
			610-00020	Median Cover Material (Patterned Concrete)	SF	4,145														4,145	
			612-00001	Delineator (Type I)	EACH	72														72	
			612-00002	Delineator (Type II)	EACH	29														29	
			612-00003	Delineator (Type III)	EACH	9														9	
			613-00206	2 Inch Electrical Conduit (Bored)	LF	115														115	
			613-00306	3 Inch Electrical Conduit (Bored)	LF	420														420	
			613-01200	2 Inch Electrical Conduit (Plastic)	LF	150														150	
			613-01300	3 Inch Electrical Conduit (Plastic)	LF	275														275	
			613-07001	Type One Pull Box	EACH	6														6	
			613-07004	Type Four Pull Box	EACH	8														8	
			613-07005	Type Five Pull Box	EACH	2														2	
			613-10000	Wiring	L S	1														1	

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

- Format *
- 3D Design Modeling Electronic Files _____
 - Horizontal Control included in plan set
 - Vertical Control included in plan set
 - Roadway Alignment included in plan set and DGN
 - Original Terrain Data DGN
 - Other: _____

* Specify the information format, i.e., 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: _____

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)

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

- 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: _____

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

- 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: _____

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

- 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: curb ramps

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

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

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

- 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: Snow Fence

- 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:

1. 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.
2. 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.
3. 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 3 days prior to the Presurvey Conference - Construction Survey.
4. 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.
5. 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.
6. 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.
7. The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
8. The Contractor shall coordinate construction staking on the project with any utility work.
9. 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.
10. 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): Provide daily copies of fieldnotes (PDF Preferred)
11. The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
 - All required Instrument Calibrations

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/19/2022	Sheet Revisions			Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed		SURVEY TABULATION SHEET			Project No./Code	
	File Name: 23327_SURVEY_Tab.	Date:	Comments	Init.		No Revisions:		Designer: AF Structure			NHPP 0931-033	
	Horiz. Scale: 1:1 Vert. Scale: As Noted					Revised:		Detailer: AF Numbers			23327	
						Void:		Sheet Subset: SURV TAB Subset Sheets: 01 of 01			Sheet Number 14	



Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials
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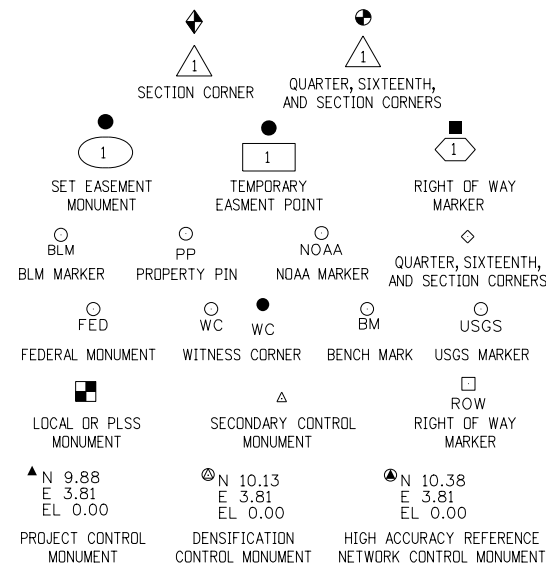
Land Survey Control Diagram			
Title Sheet			
Project Number: NHPP 0931-033			
Project Location: SH93 MP 0.0 TO 3.5			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23327	06-23-20	4.01 of 4.05	4.01
Associated Project Information			
Project Right Of Way: CX 11-0093-08, CY 11-0093-11, NH 0931A-004, NH 093A-008, F 005-3(5)			
Project Code: 11211 & 16679			

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

LAND SURVEY CONTROL DIAGRAM

State Highway 93 MP 0.0 to 3.5
Sections 9, 16, 21 & 28
Township 3 South, Range 70 West
of the 6th Principal Meridian
County of Jefferson

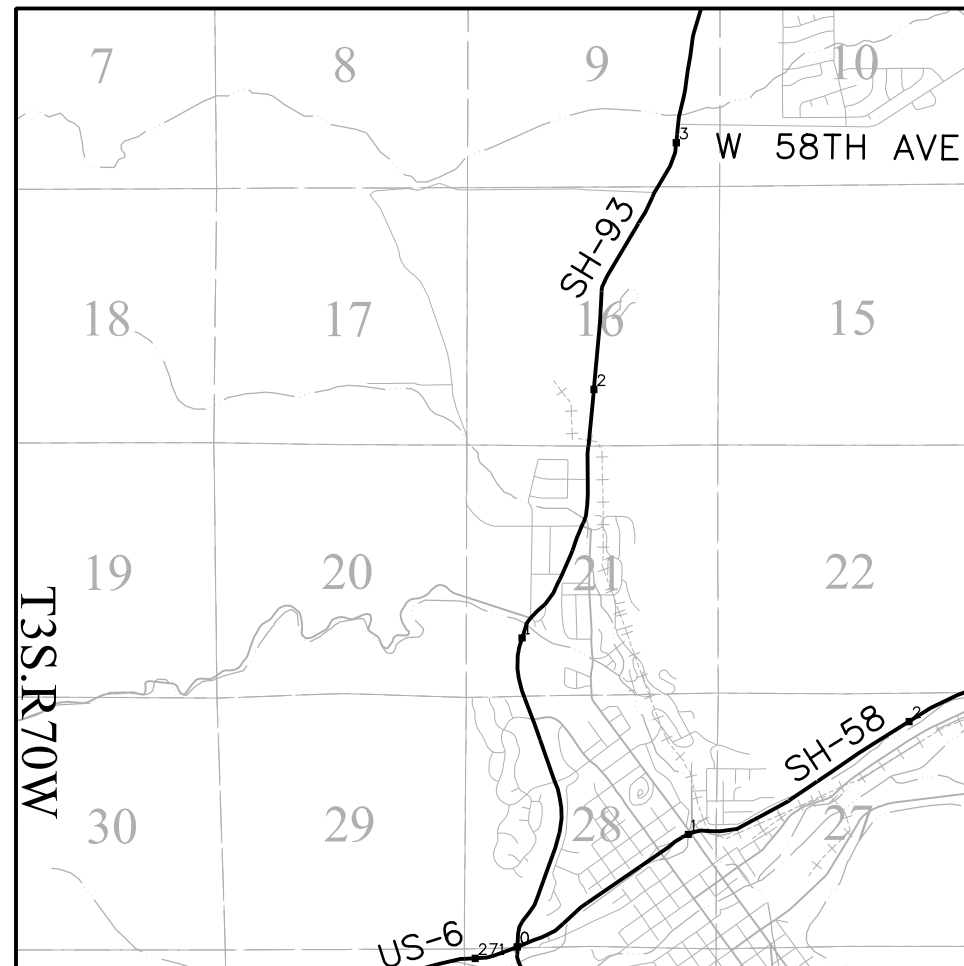
SHEET NO.	INDEX OF SHEETS
4.01-4.01	(1) Title Sheet
4.02-4.02	(1) Monument Coordinate Tables
4.03-4.05	(3) Plan Sheet
	(5) Total Sheets



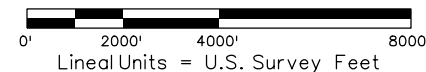
Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight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

General Notes:

1. This Land Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation 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.
2. 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.
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 CDOT 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.
4. Refer to the M-629-1 Survey Monuments of the Standard Plans found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N07°57'06.30"E, a distance of 8841.83 feet from ControlPoint 9300 to ControlPoint 9316. Both monuments are CDOT Type 5S, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN).

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83(11) coordinates. The reciprocal of the combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.000263. The resulting project coordinates are truncated by 1,000,000usft in the Northing and 3,000,000usft in the Easting after converting from state plane coordinates to project coordinates. The CHARN is based on the NAD '83(11) datum.

Project Coordinates Northing US Survey Feet = State Plane Coordinate Northing * 1.000263 * (3937/1200) - 1,000,000.
Project Coordinates Easting US Survey Feet = State Plane Coordinate Easting * 1.000263 * (3937/1200) - 3,000,000.

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SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)

I, Darren P. Shanks, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Land Survey 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. 38193



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mm/dd/yy	XXXXXXXX	XXX

Land Survey Control Diagram			
Coordinate Tables			
Project Number: NHPP 0931-033			
Project Location: SH93 MP 0.0 TO 3.5			
Project Code:	Last Mod. Date	Subset	Sheet No.
23327	06-23-20	4.01 of 4.05	4.02



FOUND ALIQUOT MONUMENT COORDINATE TABLE (BY OTHERS)			
Point No.	Northing(ft)	Easting(ft)	Description
10001	705451.78	73779.07	2.5 AC "DB & CO T3S R70W 20 21 29 28 2000 PLS 23529"
10002	705512.60	76407.02	3.25 AC "T3S R70W 1/4 S21 S28 2004 LS 36580"
10004	700274.76	76398.91	2 AC "T3S R70W 1/4 S28 S33 1997 PLS 14112"
10035	710736.00	76386.84	2 AC "LS 14112 S16/S28 T3S R70W"
10038	716157.51	79011.75	2.5 AC "S9-10-15-16 T3S R70W LS 36561"
10041	721396.98	75035.61	W 1/16 S9 LS 7361
10044	721405.26	76369.21	STONE 10" X 6" X 10"
10051	721521.79	79006.53	IN ROADWAY - COMPUTED FROM TIES
10052	716133.50	76393.02	STONE 6" X 6" X 6" TRIANGULAR
10055	713551.91	79014.42	3.25 AC "T3S R70W 1/4 S15 S 16 1999 LS 27612"
10059	710719.63	73760.15	3.25 AC "CDOT T3S R70W 16 17 20 21 1996 PLS 27278"
10062	708089.21	73769.60	2 AC "T3S R70W 1/4 S20 S21 1998 PLS 14112"
10066	708092.13	76343.04	3.25 AC "CDOT T3S R70W WC C1/4 21 1996 PLS 27278"
10067	705512.56	76407.03	1/4 S21/28 CAP ILLEG. NO TIES
10070	700207.64	73766.05	3.25 AC "CDOT T3S R70W S28 S29 S32 S33 1992 PLS 22571"
10071	700208.31	73764.66	2" AC 1.44RM DREXEL LS2149? 1981
15533	721388.35	73701.64	ROCK PILE S 5-4-8-9 T3S R70W
20004	705482.14	75092.83	2.5 AC "DB & CO T3S R70W W 1/16 S21 S28 1999 PLS 23529"
20010	716086.44	73716.57	IN ROADWAY - COMPUTED FROM TIES



PP

FOUND BOUNDARY MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
10024	708388.42	75913.84	1.75 GPC LS 30830 FRONTIER SURV
10025	708372.84	75950.68	1.75 GPC LS 30830
10026	707966.78	75580.97	5 RBR BENT
10032	710075.13	76351.09	1.5 AC LS 27612
10033	710735.83	76346.92	1.5 AC BLANK CAP
10053	716134.51	76510.71	1" YPC LS 23519 RUSSEL
10078	717275.16	78066.63	REBAR #5-BENT
10079	717483.31	78099.94	REBAR #5
10080	717237.88	78263.45	REBAR #5
10081	717237.65	78263.43	1" AC ON 5 RBR COWAN ENG 1802
10082	716833.82	78160.68	1.5 AC LS 12405
10083	716506.88	77987.49	1" YPC 1802-COWAN
10084	716436.91	77955.56	1" YPC 1802-COWAN
10085	716215.86	77832.53	REBAR #5
10086	716215.74	77832.61	1" YPC 1802-COWAN
10087	716180.19	77812.13	1" YPC 1802-COWAN
10088	716022.88	77755.31	1.5 AC IN CONC LS 12405
10089	716173.43	77611.67	REBAR #5
10090	716215.29	77539.06	REBAR #4
10091	716144.16	77545.58	1" YPC 23519-RUSSELL
10092	716133.01	77564.86	1" YPC 23519-RUSSELL
10093	713693.20	76619.50	1.5 AC IN CONC LS 12405-ILLEGIBLE
10096	713936.00	76645.55	1.5 AC LS 12405
10097	714577.36	76894.91	1.5 AC ILLEGABLE-IN CONCRETE
10098	715121.56	77236.81	1.5 AC IN CONC-ILLEGIBLE
10099	715230.79	77047.46	1" YPC LS 23519-RUSSELL
10100	715046.87	76964.80	1" YPC LS 23519-RUSSELL
20003	705483.04	75130.86	2" AC 17664
20007	705477.25	74881.39	YPC 22564
20012	708943.72	76194.29	YPC 25953 "FRONTIER SURV"
20013	709117.76	76067.81	RPC 38257
20072	707165.07	75224.61	WASHER 36580
30000	700436.03	74847.35	REBAR #4 PLS 25529
30001	700508.03	74844.62	REBAR #4 PLS 25529
30002	700504.11	74994.73	REBAR #4 PLS 25529
30003	700482.17	75031.32	REBAR #4 PLS 25529
30004	701320.04	75386.30	REBAR #4 PLS 25529
30005	701368.37	75244.42	REBAR #4 PLS 25529
30006	701137.21	75117.48	REBAR #4 PLS 25529
30007	701010.56	75012.77	REBAR #4 PLS 25529
30008	700915.81	75128.91	REBAR #4 PLS 25529
30009	701043.12	75232.76	REBAR #4 PLS 25529
30010	703909.47	75710.48	2" AC ILLEG
30011	703857.62	75569.76	REBAR #4 PLS 25529
30012	705639.08	75049.65	REBAR #4 YPC 36580
30013	705783.39	74997.52	#4 REBAR
30014	706554.83	74959.00	REBAR #4 YPC 36580 "AZTEC"
30015	703788.29	75876.99	REBAR #4
30016	707176.29	75208.08	REBAR #4 YPC 36580 "AZTEC"
30017	707255.43	75299.57	REBAR #4 YPC 14112 "LINN INC"
30018	708013.57	75625.93	2" AC ILLEG
30019	708130.77	75684.75	2" AC PLS 14108
30020	710069.81	76201.88	WASHER 12330
30021	710040.36	76231.99	2" AC PLS 14108
30022	705168.02	75317.94	2" AC PLS 27275 "DB & CO"



ROW

FOUND R.O.W. MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
10003	707207.02	75024.15	PROJ CY 11-0093-11 PT 200
10021	707306.98	75138.57	PROJ CY 11-0093-11 PT 196
10023	707774.57	75480.17	PROJ CY 11-0093-11 PT 194
10027	709413.72	76292.88	PROJ NH 093A-004 PT 51
10028	709826.98	76355.61	PROJ NH 093A-004 PT 146
10029	709668.42	76238.34	PROJ NH 093A-004 PT 215
10030	710201.94	76228.74	PROJ NH 093A-004 PT 238
10031	710204.17	76348.77	PROJ NH 093A-004 PT 239
10034	710736.13	76399.64	PROJ NH 093A-004 PT 246
10036	710734.98	76209.00	PROJ NH 093A-004 PT 244
10037	709413.72	76323.19	PROJ NH 093A-004 PT 241
15104	707078.11	75140.40	PROJ CY 11-0093-11 PT 161
20011	708986.32	76303.48	PROJ NH 093A-004 PT 261
20014	709117.48	76100.98	PROJ NH 093A-004 PT184
20015	709159.69	76131.23	PROJ NH 093A-004 PT 136
20016	709272.23	76156.19	PROJ NH 093A-004 PT 137
20017	709303.27	76123.73	PROJ NH 093A-004 PT 138
20018	709413.39	76201.17	PROJ NH 093A-004 PT 139



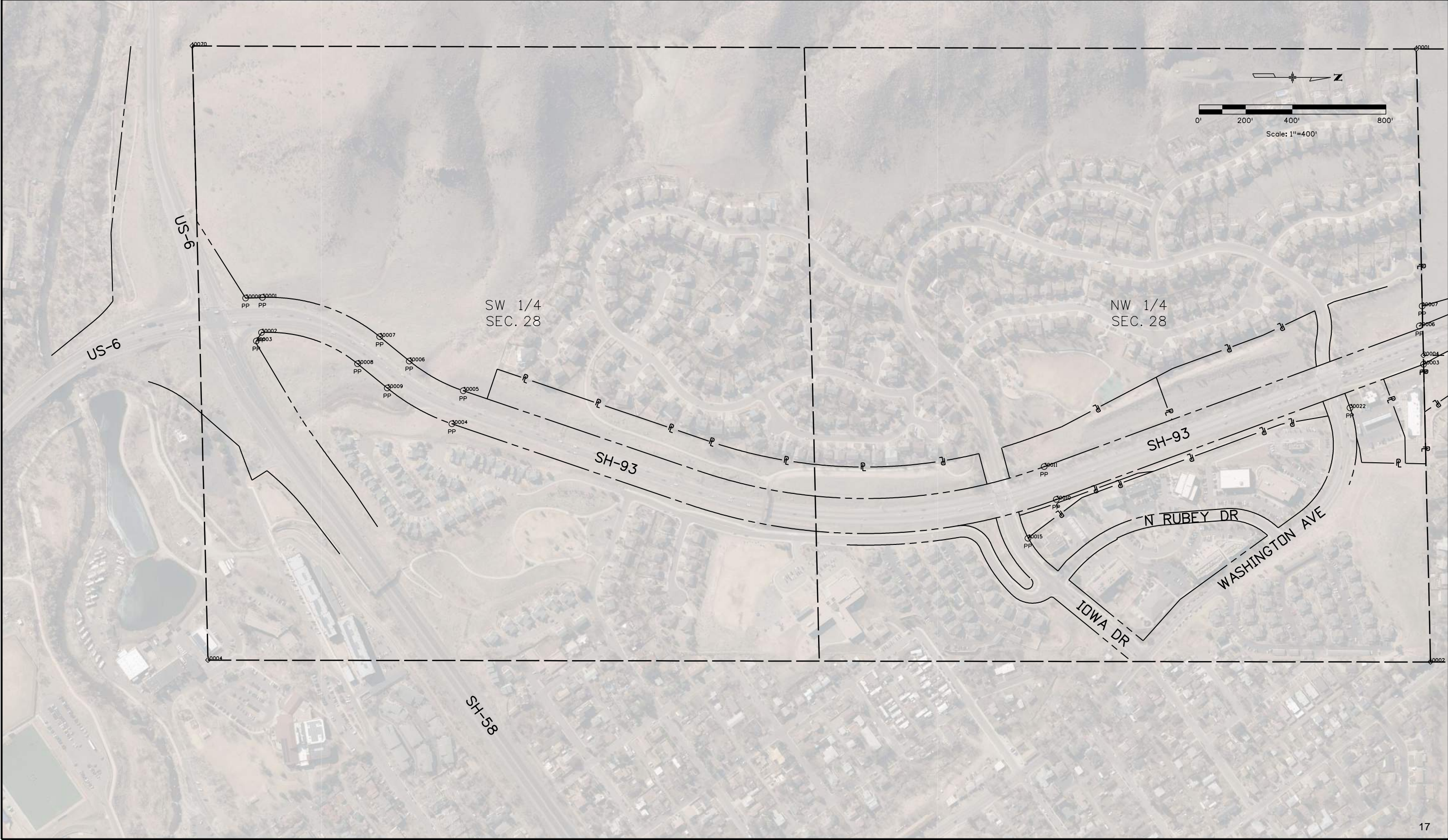
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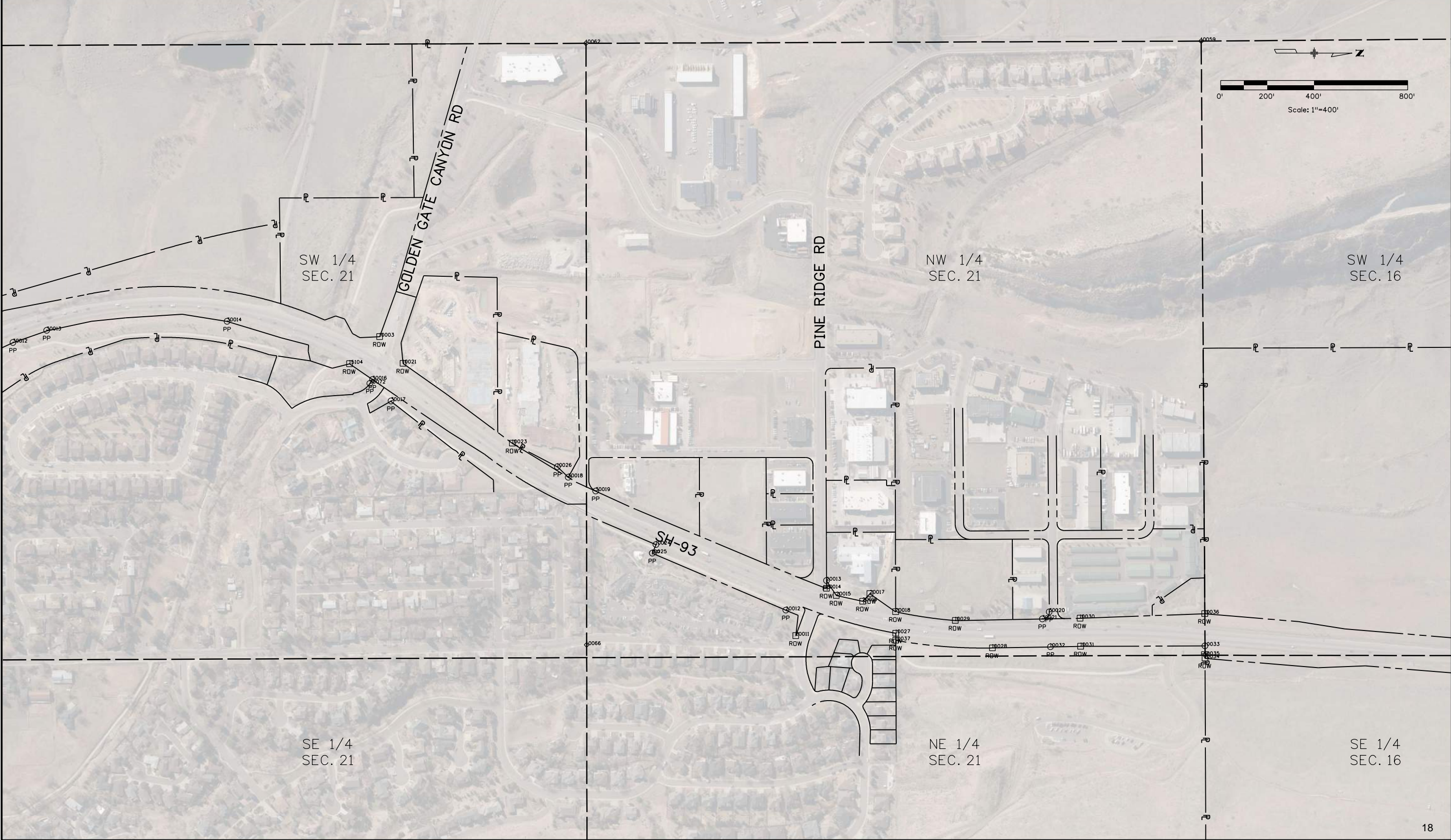
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Land Survey Control Diagram			
Plan Sheet			
Project Number: NHPP 0931-033			
Project Location: SH93 MP 0.0 TO 3.5			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
23327	06-23-20	4.01 of 4.05	4.04

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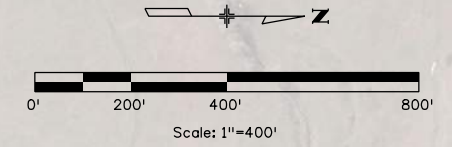


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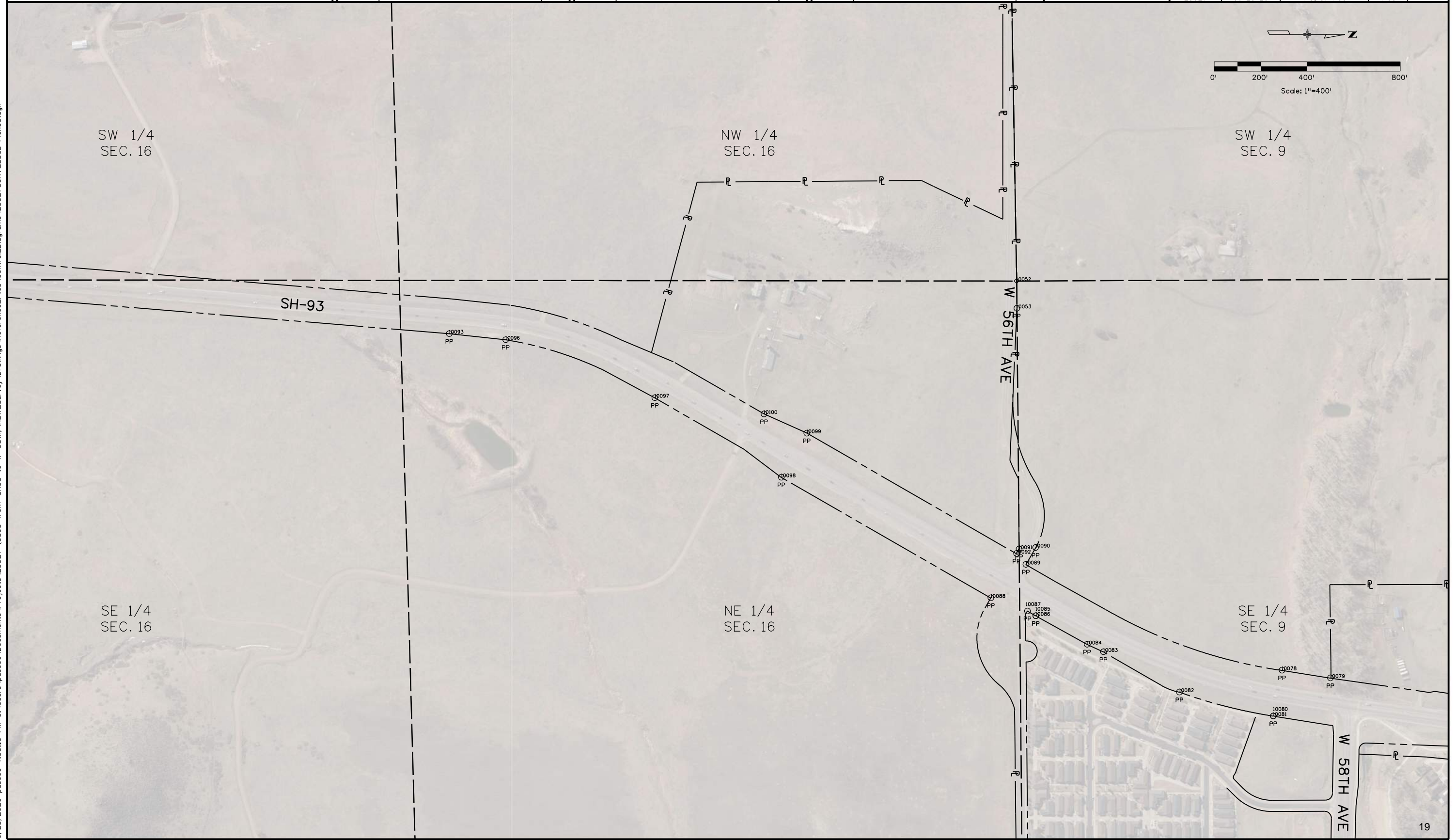
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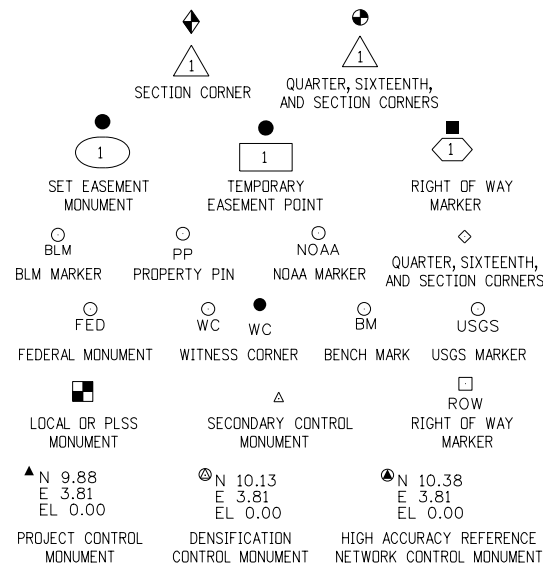
Project Control Diagram			
Title Sheet			
Project Number: NHPP 0931-033			
Project Location: SH93 MP 0.0 TO 3.5			
Project Code:	Last Mod. Date:	Subset	Sheet No.
23327	05-28-20	3.01 of 3.05	3.01
Associated Project Information			
Project Control: XXXXX			
Project Right Of Way: XXXXX			
Project Code: XXXXX			

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

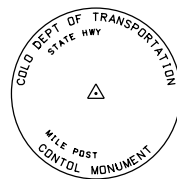
PROJECT CONTROL DIAGRAM

State Highway 93 MP 0.0 to 3.5
Sections 9, 16, 21 & 28
Township 3 South, Range 70 West
of the 6th Principal Meridian
County of Jefferson

SHEET NO.	INDEX OF SHEETS
3.01-3.01	(1) Title Sheet
3.02-3.02	(1) Coordinate Tables
3.03-3.05	(3) Plan Sheet
	(5) Total Sheets



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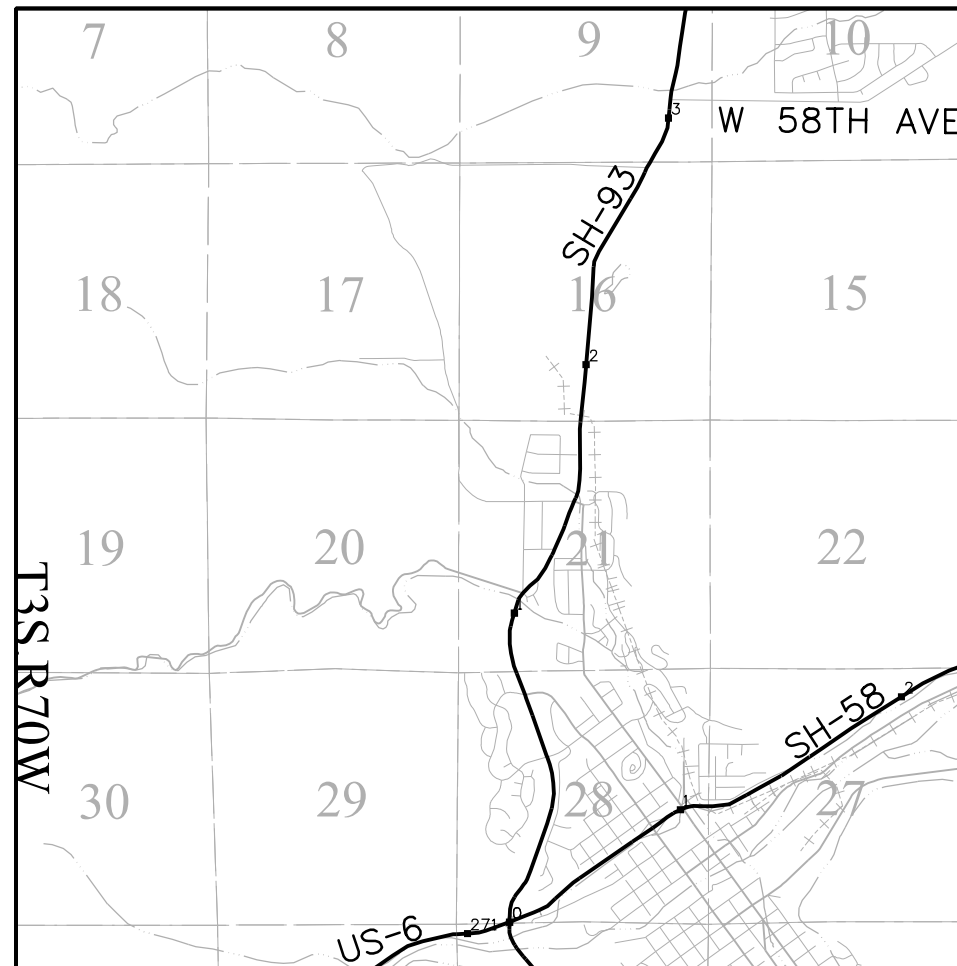


Typical Control Monument Cap
Not to Scale

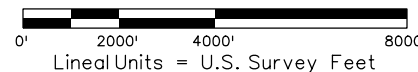
▲ CM-MP - ControlPoint Monuments set by CDOT. They are CDOT Type 2 monuments, a 3 1/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

General Notes:

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PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N07°57'06.30"E, a distance of 8841.83 feet from ControlPoint 9300 to ControlPoint 9316. Both monuments are CDOT Type 5S, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN).

Basis of Elevations: Project elevations are based on FastStatic processing from D 411, PID: KK1367, a standard bench rod set within a monument box, with a NAVD 88 elevation of 5952.957ft. D 411 is a first order vertical benchmark.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83(11) coordinates. The reciprocal of the combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.000263. The resulting project coordinates are truncated by 1,000,000usft in the Northing and 3,000,000usft in the Easting after converting from state plane coordinates to project coordinates. The CHARN is based on the NAD '83(11) datum.

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PLS No. 38193

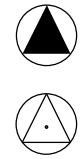


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Project Control Diagram			
Coordinate Tables			
Project Number: NHPP 0931-033			
Project Location: SH93 MP 0.0 TO 3.5			
Project Code:	Last Mod. Date	Subset	Sheet No.
23327	05-28-20	3.01 of 3.05	3.02



CHARN GEODETIC COORDINATE TABLE									
Point No.	Geodetic Coordinates NAD-83(11)		Elip Height (NAVD88) (m)	Ortho Height (m)	Mapping Angle	Grid Scale Factor	Colorado State Plane, Zone 0502		Description
	Latitude (N)	Longitude (W)					SP Northing (m)	SP Easting (m)	
CTMC	39° 43' 17.49312"	105° 11' 34.33565"	1819.842	1835.590	0° 11' 37.33"	0.999994491	514455.048	940734.790	NGS PID:DM5962
F 411 RESET	39° 48' 50.64706"	105° 13' 19.46440"	1797.957	1813.680	0° 10' 31.02"	1.000013304	524722.015	938199.574	NGS PID:KK2128
STOOGES	39° 44' 31.47427"	105° 17' 12.80602"	1850.378	1865.219	0° 08' 03.86"	0.999998442	516713.644	932668.305	NGS PID:AA5195
D 411	39° 47' 32.34350"	105° 13' 50.07582"	1798.884	1814.465	0° 10' 11.72"	1.000008646	522304.774	937478.645	NGS PID:KK1367



GEODETIC COORDINATE TABLE									
Point No.	Geodetic Coordinates NAD-83(11)		Elip Height (NAVD88) (m)	Ortho Height (m)	Mapping Angle	Grid Scale Factor	Colorado State Plane, Zone 0502		Description
	Latitude (N)	Longitude (W)					SP Northing (m)	SP Easting (m)	
9300	39° 45' 17.43993"	105° 14' 09.83080"	1736.984	1752.416	0° 09' 59.26"	1.0000009620	518142.731	937020.717	CDOT Type 5S
9303	39° 45' 36.77335"	105° 14' 00.82986"	1762.691	1778.162	0° 10' 04.93"	1.0000020368	518739.630	937233.236	CDOT Type 6
9306	39° 45' 51.38520"	105° 13' 55.95473"	1759.789	1775.286	0° 10' 08.01"	1.0000028550	519190.624	937347.951	CDOT Type 5S
9308	39° 46' 04.73471"	105° 14' 03.32050"	1775.359	1790.843	0° 10' 03.36"	1.0000036069	519601.830	937171.428	CDOT Type 5S
9309	39° 46' 08.23808"	105° 14' 08.21247"	1782.595	1798.066	0° 10' 00.28"	1.0000038049	519709.540	937054.681	CDOT Type 6
9310	39° 46' 14.23205"	105° 14' 10.16698"	1795.342	1810.812	0° 09' 59.04"	1.0000041444	519894.269	937007.627	CDOT Type 6
9311	39° 46' 17.93421"	105° 14' 10.06698"	1795.866	1811.338	0° 09' 59.11"	1.0000043545	520008.458	937009.675	CDOT Type 6
9312	39° 46' 24.46708"	105° 14' 06.93198"	1796.419	1811.905	0° 10' 01.09"	1.0000047261	520210.160	937083.699	CDOT Type 5S
9313	39° 46' 24.92289"	105° 14' 08.75901"	1798.071	1813.551	0° 09' 59.93"	1.0000047520	520224.091	937040.177	X in Concrete
9316	39° 46' 43.94523"	105° 13' 53.83827"	1811.376	1826.910	0° 10' 09.34"	1.0000058398	520811.815	937393.538	CDOT Type 5S
9322	39° 47' 05.64257"	105° 13' 51.31228"	1801.395	1816.951	0° 10' 10.94"	1.0000070910	521481.179	937451.666	CDOT Type 6
9330	39° 48' 07.56481"	105° 13' 26.46528"	1776.345	1792.018	0° 10' 26.61"	1.0000107232	523392.758	938037.095	CDOT Type 6
9334	39° 48' 01.41355"	105° 13' 30.82380"	1779.622	1795.280	0° 10' 23.86"	1.0000103583	523202.726	937933.984	CDOT Type 2
9335	39° 48' 07.31903"	105° 13' 27.47576"	1777.717	1793.386	0° 10' 25.97"	1.0000107086	523385.104	938013.080	X in Concrete



PROJECT COORDINATE TABLE				
Point No.	Project Coordinates		Elev (ft) (NAVD88)	Description
	Northing (ft)	Easting (ft)		
CTMC	688285.173	87205.778	6022.264	NGS PID:DM5962
F 411 RESET	721978.237	78885.968	5950.382	NGS PID:KK2128
STOOGES	695697.197	60734.024	6119.473	NGS PID:AA5195
D 411	714045.590	76520.101	5952.957	NGS PID:KK1367
9300	700387.027	75017.318	5749.386	CDOT Type 5S
9303	702345.867	75714.741	5833.852	CDOT Type 6
9306	703825.894	76091.201	5824.417	CDOT Type 5S
9308	705175.348	75511.906	5875.457	CDOT Type 5S
9309	705528.820	75128.780	5899.155	CDOT Type 6
9310	706135.045	74974.361	5940.971	CDOT Type 6
9311	706509.776	74981.083	5942.698	CDOT Type 6
9312	707171.701	75224.006	5944.557	CDOT Type 5S
9313	707217.419	75081.180	5949.960	X in Concrete
9316	709146.150	76240.803	5993.788	CDOT Type 5S
9322	711342.800	76431.564	5961.112	CDOT Type 6
9330	717616.020	78352.762	5879.311	CDOT Type 6
9334	716992.393	78014.384	5890.015	CDOT Type 2
9335	717590.903	78273.952	5883.802	X in Concrete

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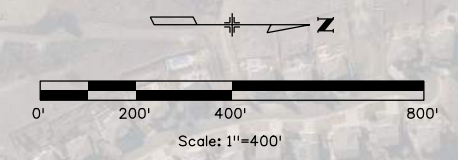


Sheet Revisions		
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Sheet Revisions		
Date	Description	Initials
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Project Code:	Last Mod. Date	Subset	Sheet No.
23327	05-28-20	3.01 of 3.05	3.03



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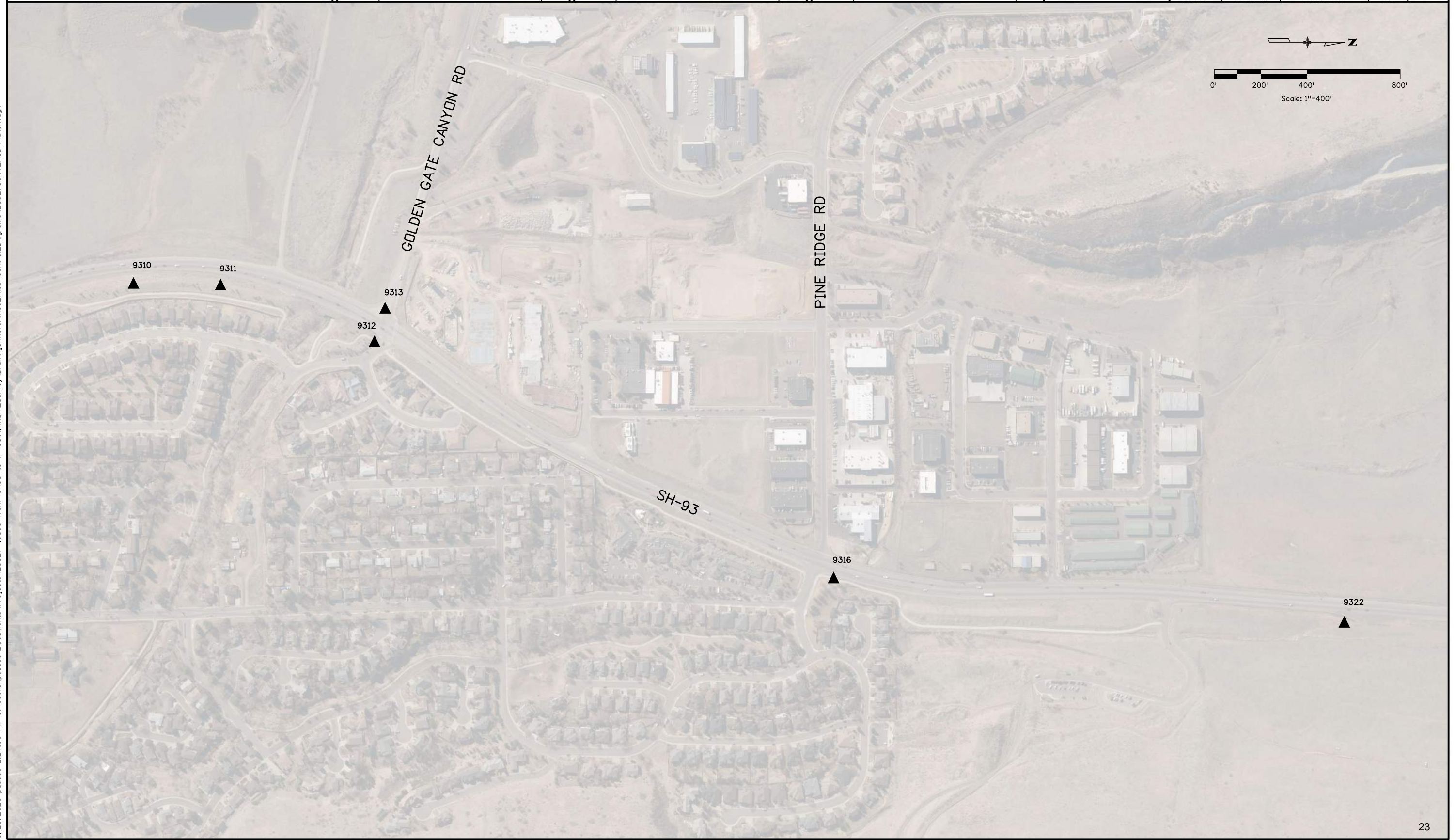
Sheet Revisions		
Date	Description	Initials
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Sheet Revisions		
Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Sheet Revisions		
Date	Description	Initials
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Project Code:	Last Mod. Date	Subset	Sheet No.
23327	05-28-20	3.01 of 3.05	3.04

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Colorado Department of Transportation



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Golden, CO 80401
Phone: 720-497-6983
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Region 1

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Sheet Revisions		
Date	Description	Initials
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Sheet Revisions		
Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX

Project Control Diagram

Plan Sheet

Project Number: NHPP 0931-033
Project Location: SH93 MP 0.0 TO 3.5

Project Code:	Last Mod. Date	Subset	Sheet No.
23327	05-28-20	3.01 of 3.05	3.05

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SUMMARY OF EARTHWORK QUANTITIES	
<u>PAY QUANTITIES:</u>	
<u>UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)</u>	<u>CUBIC YARDS</u>
ROADWAY REGULAR UNCLASSIFIED EXCAVATION QUANTITY	2,851
ADDITIONAL UNCLASSIFIED EXCAVATION QUANTITY FOR CUT SLOPE TREATMENT	143
TOTAL QUANTITY FOR UNCLASSIFIED EXCAVATION MATERIAL (COMPLETE IN PLACE) PAY QUANTITY	2,994
<u>REMOVAL OF UNSUITABLE MATERIAL</u>	
TOTAL FOR UNSUITABLE MATERIAL PAY QUANTITY	100
ASSUMED VOLUME (CONTINGENCY)	
<u>TOPSOIL</u>	
TOTAL TOPSOIL (ONSITE) PAY QUANTITY (4" DEPTH)	716
TOTAL TOPSOIL (OFFSITE) PAY QUANTITY (2" DEPTH)	355
<u>FOR INFORMATION ONLY:</u>	
<u>EMBANKMENT MATERIAL (COMPLETE IN PLACE)</u>	<u>CUBIC YARDS</u>
ROADWAY REGULAR EMBANKMENT QUANTITY	0
TOTAL FOR EMBANKMENT MATERIAL (COMPLETE IN PLACE)	0
<u>FOR INFORMATION ONLY - EARTHWORK BALANCE</u>	
UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE) (CUT)	<u>CUBIC YARDS</u>
TOTAL UNCLASSIFIED EXCAVATION	2,994
TOTAL MATERIAL AVAILABLE FROM EXCAVATION	2,994
EMBANKMENT MATERIAL (COMPLETE IN PLACE) (FILL)	<u>CUBIC YARDS</u>
EMBANKMENT MATERIAL	0
<u>BALANCE</u>	
<u>TOTAL EXCESS MATERIAL</u>	
TOTAL MATERIAL AVAILABLE FROM EXCAVATIONS LESS TOTAL MATERIAL NEEDED FOR EMBANKMENT	2,994

- Notes:
1. MATERIALS QUANTITIES ARE ACTUAL IN PLACE QUANTITIES AND DO NOT REPRESENT UNCOMPACTED VOLUMES.
 2. REMOVAL OF EXISTING TOPSOIL IS PAID FOR AS CLEARING AND GRUBBING.

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	File Name: 23327_DES_Tabulation of Earthwork.dgn	Date:	Comments	Init.		No Revisions:			NHPP 0931-033	
	Horiz. Scale: 1:100 Vert. Scale: As Noted					Revised:	Designer: AF	Structure Numbers	23327	
						Void:	Detailer: AF	Subset Sheets: 01 of 02	Sheet Number 25	

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LOCATION	203-00010	203-00050	207-00700	207-00702	REMARKS
	UNCLASSIFIED EXCAVATION (CIP)	UNSUITABLE MATERIAL	TOPSOIL (ONSITE)	TOPSOIL (OFFSITE)	
	CY	CY	CY	CY	
WASHINGTON WIDENING	2596				END AREA METHOD/ TRIANGULATION OF SURFACES
SPYDERCO DITCH	255				TRIANGULATION OF SURFACES
CUT SLOPE TREATMENT	143				FROM EARTHWORK TAB
TOPSOIL (6" DEPTH)			716	355	FROM SWMP TAB
		100			ASSUMED VOLUME (CONTINGENCY)
TOTAL	2994	100	716	355	

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	File Name: 23327_DES_Earthwork Breakdown.dgn	Date:	Comments	Init.			No Revisions:	Designer: AF Detailer: AF		Structure Numbers		NHPP 0931-033 23327
	Horiz. Scale: 1:100 Vert. Scale: As Noted				Revised:							
					Void:	Sheet Subset: EARTH		Subset Sheets: 02 of 02		Sheet Number 26		

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TABULATION OF SURFACING											
	STATIONS			LENGTH (FT)	202-00220	202-00240	304-06000	403-00720	403-33841	403-34871	411-10255
					REMOVAL OF ASPHALT MAT	REMOVAL OF ASPHALT MAT (PLANING)	AGGREGATE BASE COURSE (CLASS 6)	HOT MIX ASPHALT (PATCHING) (ASPHALT)	HOT MIX ASPHALT (GRADING S) (100) (PG 64-22)	HOT MIX ASPHALT (GRADING SX) (100) (PG 76-28)	EMULSIFIED ASPHALT (SLOW- SETTING)
					SY	SY	TON	SY	TON	TON	GAL
SH 93	101+67	TO	107+00	533		5,300				729	530
SH 93	107+00	TO	121+00	1400		8,244				1,134	824
SH 93	121+00	TO	135+00	1400		8,758				1,204	876
SH 93	135+00	TO	149+00	1400		10,779				1,482	1,078
SH 93	149+00	TO	163+00	1400		8,208				1,129	821
SH 93	150+50	TO	169+31	1881	1,855		1,794	100	1,295	540	1,177
SH 93	163+00	TO	176+00	1300		10,318				1,419	1,032
SH 93	176+00	TO	190+00	1400		9,546				1,313	955
SH 93	190+00	TO	204+00	1400		12,056				1,658	1,206
SH 93	204+00	TO	218+00	1400		9,973				1,371	997
SH 93	218+00	TO	232+00	1400		7,878				1,083	788
SH 93	232+00	TO	246+00	1400		7,919				1,089	792
SH 93	246+00	TO	260+00	1400		9,800				1,347	980
SH 93	260+00	TO	274+00	1400		11,153				1,534	1,115
SH 93	274+00	TO	285+00	1100		7,661				1,053	766
MISC. PATCHING								100			
SUBTOTAL					1,855	127,592	1,794	200	1,295	18,084	13,936
5% IRREGULARITIES					93	6,380			65	904	697
PROJECT TOTAL					1,948	133,972	1,794	200	1,360	18,988	14,633

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	File Name: 23327DES_Tabulation of Resurfacing.dgn		Date:	Comments	Init.										
	Horiz. Scale: 1:1 Vert. Scale: As Noted					Region 1		JDS		Revised:		Detailer: AM		23327	

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TABULATION OF CURB RAMP ITEMS

Intersection	Side	Ramp # ID	Proposed Ramp Type	202-00195	202-00200	202-00203	202-00220	202-00827	304-06000	403-00720	608-00006	608-00010	609-21010	609-21020	610-00020	613-07001	613-07004
				Removal of Median Cover	Removal of Sidewalk	Removal of Curb and Gutter	Removal of Asphalt Mat	Removal of Pull Box	Aggregate Base Course (Class 6)	Hot Mix Asphalt (Patching) (Asphalt)	Concrete Sidewalk (6 Inch)	Concrete Curb Ramp	Curb and Gutter Type 2 (Section I-B)	Curb and Gutter Type 2 (Section II-B)	Median Cover Material (Patterned Conc)	Type One Pull Box	Type Four Pull Box
				SY	SY	LF	SY	EA	TN	TON	SY	SY	LF	LF	SF	EA	EA
US 6	RT	CR-1,2,3	island	186		214		3	3	5	15	59		207	1498	2	1
	LT	CR-4,5	island	31		63		3	3	5		13		44	163	2	1
	LT	CR-6,7,8	island	127		158		2	3	5	17	21		143	692	1	1
	RT	CR-9,10,11	island	119		163		2	3	5		58		163	611	1	1
Iowa Dr.	LT	CR-14	2		19	23			1	1		26					
	LT	CR-15	2		15	24			1	1		21					
	RT	CR-13	2		33	37			1	1		41					
	RT	CR-16	2		20	23			1	1		20					
Washington	RT	CR-12	2		49	85			1	1	35	32		109			
Pine Ridge Rd.	LT	M-1	East Median				75		17	9			108		440		
	RT	M-2	West Median				66		15	9			104		519		
	LT	CR-18	-		10	61			1	3	90			118			
	RT	CR-17	2		35	36			1	1		46					
	RT	CR-19	combination		35	29			1	1		42					
Hogback Dr.	LT	CR-20	1		20	15			1	1	3	18					
	LT	CR-21	1		22	17			1	1	2	19					
W 58th Ave.	RT	CR-22	2		20	27			1	1		28					
	RT	CR-23	2		27	30			1	1		33					
	RT	CR-24,25,26	island	25	38	92			3	5		16	92		222		

Project Total	488	341	1096	141	10	59	57	163	494	304	784	4145	6	4
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TABULATION OF PUSH BUTTONS

Intersection	202-00860	210-00859	614-72860	614-72863	614-70200	Notes
	Removal of Pedestrian Push Button	Modify Pedestrian Push Button	Pedestrian Push Button	Pedestrian Push Button Post Assembly	Accessible Pedestrian Signal	
	EA	EA	EA	EA	EA	
SH93 & US 6	8		8	8		Post with 1 button on all corners
SH93 & Iowa	8			4	8	Post with 2 buttons on all corners
SH93 & 58th Ave	4	1	4	4		1 button on eachpost, extend button on NW corner.
Total	20	1	12	16	8	

DETECTABLE WARNINGS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF ITEM 608-00010 CONCRETE CURB RAMP

ALL DETECTABLE WARNINGS SHALL BE INSTALLED PER M&S STANDARD DETAIL. THE COLOR OF THE WARNINGS

SHALL BE RED UNLESS PLACED IN RED CONCRETE IN WHICH CASE THEY SHALL BE YELLOW FOR CONTRAST.

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	File Name: 23327DES_Tabulation of Curb Ramps.dgn	Date:	Comments	Init.						NHPP 0931-033	
	Horiz. Scale: 1:1 Vert. Scale: As Noted									23327	
										Sheet Number 28	

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TABULATION OF DELINEATORS								
LOCATION	202-00090		612-00001		612-00002		612-00003	
	REMOVAL OF DELINEATOR		DELINEATOR TYPE I		DELINEATOR TYPE II		DELINEATOR TYPE III	
	EA		EA		EA		EA	
	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST
US6 / SH 93 NE MEDIAN	3		3					
US6 / SH 93 NW MEDIAN	3		3					
US6 / SH 93 SW MEDIAN	3		3					
US6 / SH 93 SE MEDIAN	3		3					
STA 100 TO 109+88	7		4		3			
109+88 TO 111+86 GUARDRAIL	4		2				2	
109+51 TO 111+28 GUARDRAIL	2		1				1	
STA 129+33 & 131+86	2		1		1			
SH93 & IOWA DR TO 148+03	6				6			
WASHINGTON / SH93 MEDIAN	2		2					
STA 149+96	1				1			
STA 169+27 TO 174+49	12		9		9			
STA 179+21 TO 189+37	6		7		1		1	
STA 195+79 TO 200+80	9		2		5		2	
STA 209+82 TO 215+54	3		3					
STA 226+21	1		1					
STA 235+33 TO 143+05	2		2					
STA 247+15 TO 255+56	5		5					
STA 261+24 TO 270+34	3		3					
STA 283+65 TO 286+65	4		2				2	
58TH AVE/ SH93	2		3					
PINE RIDGE ROAD / SH93 E MEDIAN			3					
PINE RIDGE ROAD / SH93 W MEDIAN			3					
10% CONTINENCY	8		7		3		1	
TOTAL	91		72		29		9	

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	File Name: 23327DES_Tabulation of delineators.dgn	Date:	Comments	Init.		No Revisions:	Designer: AF				Structure	NHPP 0931-033
	Horiz. Scale: 1:1	Vert. Scale: As Noted					Revised:	Detailer: AM		Numbers	23327	
							Void:	Sheet Subset: DELIN TAB		Subset Sheets: 01 of 01	Sheet Number 29	

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TABULATION OF MANHOLE & VALVE BOX ADJUSTMENTS					
Station	Offset	Adjust ManHole	Clean Valve Box	Adjust Valve Box	Notes
		210-04010	202-04005	210-04050	
173+29	LT	2			
179+20	LT				Adjust by Lumen forces
194+26	LT		2	4	
194+70	LT	2			
195+28	LT		1	2	
200+48	LT		1	2	
TOTAL		4	4	8	

TABULATION OF CLEAN INLETS/ CULVERTS					
Station	Offset	Clean Inlet		Clean Culvert	
		202-04010		202-04002	
		EA		EA	
		Plan	As Const	Plan	As Const
101+39	LT	1			
136+29	LT	1			
136+75	LT	1			
151+15	LT	1			
151+62	LT	1			
151+90	RT			1	
152+40	RT			1	
173+81	RT	1			
173+79	LT	1			
173+67	RT	1			
186+22	LT	1			
187+92	LT	1			
205+15	LT	1			
205+50	LT	1			
TOTAL		12		2	

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	File Name: 23327DES_Tabulation of Utilities and Inlets.dgn	Date:	Comments	Init.		No Revisions:	NHPP 0931-033				
	Horiz. Scale: 1:1 Vert. Scale: As Noted					Revised:	Designer: AF	Structure Numbers	23327		
						Void:	Detailer: AM	Subset Sheets: 01 of 01	Sheet Number 30		

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TABULATION OF GUARDRAIL									
STATION		OFFSET	202-01130 Removal of Guardrail Type 3	202-01300 Removal of End Anchorage	606-00301 Guardrail Type 3 (6-3 Post Spacing)	606-02003 End Anchorage Nonflared	606-02005 End Anchorage Flared	606-01370 Transition Type 3G	Notes
From	TO		LF	EA	LF	EA	EA	EA	
109+93	111+87	RT	127	2	127	1	1		
109+60	111+27	LT	87	2	87		2		
159+90	166+18	RT			514	2			7' posts
169+63	173+63	RT	315	2	315		2		
168+95	173+23	LT	377	2	377	1	1		
179+57	182+29	RT	213	1	213		1	1	
184+95	188+75	RT	320	1	320		1	1	
195+53	199+10	RT	288	2	288		2		
195+85	200+39	LT	321	2	321		2		
283+71	286+64	LT	200	2	200		2		
		Total	2248	16	2762	4	14	2	

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	File Name: 23327DES_Tabulation of Guardrail.dgn	Date:	Comments	Init.		No Revisions:	Designer: AF	Structure Numbers	NHPP 0931-033
	Horiz. Scale: 1:1 Vert. Scale: As Noted					Revised:	Detailer: AF		23327
						Void:	Sheet Subset: RAIL TAB	Subset Sheets: 01 of 01	Sheet Number 31

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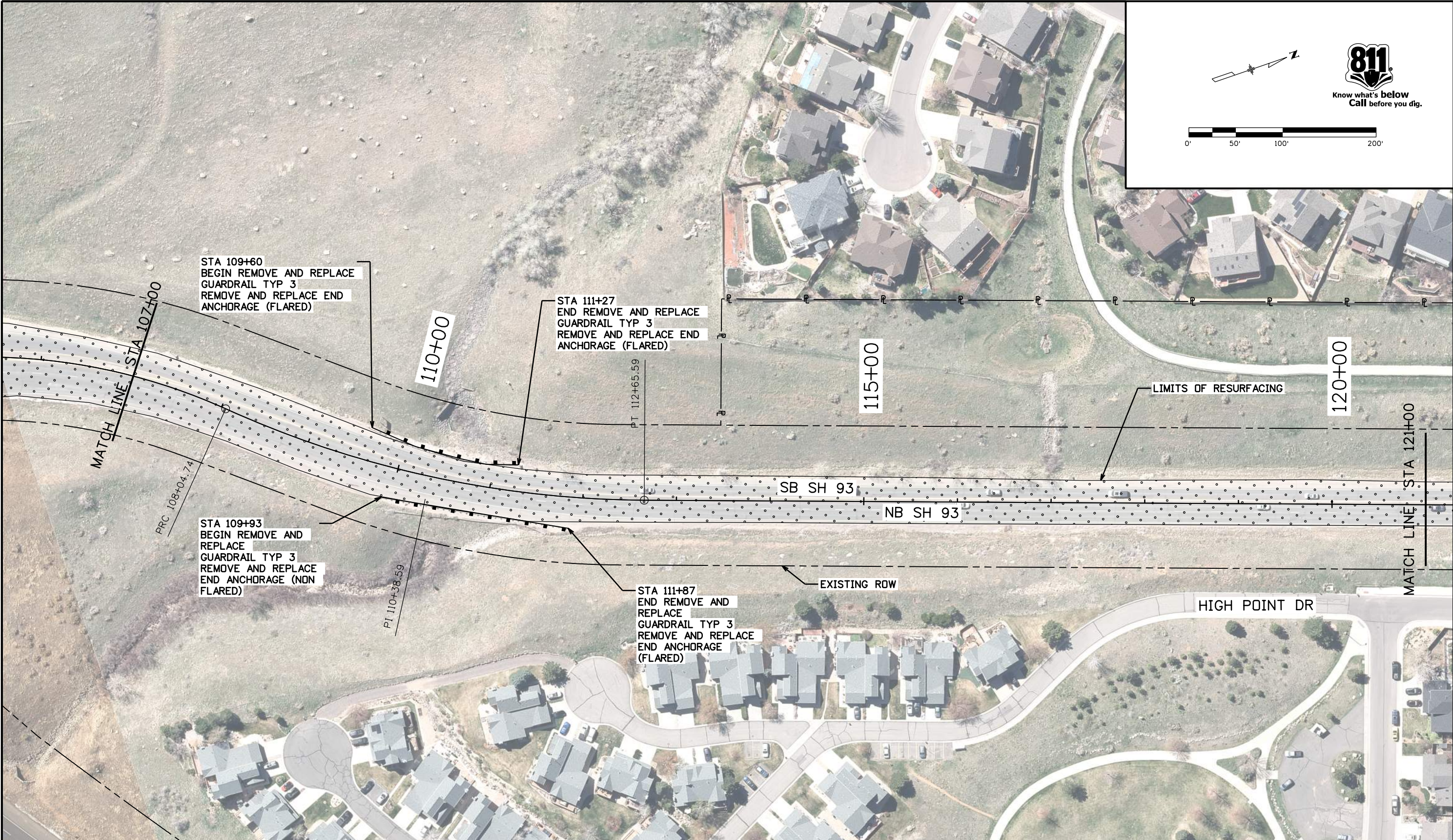
SNOW FENCE TABULATION				
Station	Offset	202-0100	607-60116	607-32000
		Removal of Fence	16 Ft Gate	Fence Picket Snow
		LF		LF
258+38 TO 264+75	LT		1	637
261+65 TO 266+67	LT	506		
269+13 TO 281+26	LT		1	1163
Total		506	2	1800

1. REMOVAL OF FENCE ITEM SHALL BE USED FOR REMOVAL OF EXISTING SNOW FENCE IN THE PROJECT LIMITS.

RUMBLE STRIP TABULATION	
Roadway Plan Page	614-80390
	Rumble Strip (Grinding) (Asphalt) (Sinusoidal)
	LF
Page 8	1150
Page 9	2300
Page 10	450
Page 12	350
Page 13	2200
Page 14	1900
Total	8350

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	File Name: 23327DES_Tabulation of Snow Fence and Rumble Strips.dgn		Comments	Init.			No Revisions:			NHPP 0931-033		
	Horiz. Scale: 1:1 Vert. Scale: As Noted						Revised:	Designer: AF	Structure Numbers	23327		
							Void:	Detailer: AF	Subset Sheets: 01 of 01	Sheet Number 32		

malewska 11:56:25 AM pw:\cdot-pw.bentley.com\cdot-pw-01p\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TD 58TH\Design\Drawings\23327DES_PlanSheet_02.dgn



STA 109+60
BEGIN REMOVE AND REPLACE
GUARDRAIL TYP 3
REMOVE AND REPLACE END
ANCHORAGE (FLARED)

STA 111+27
END REMOVE AND REPLACE
GUARDRAIL TYP 3
REMOVE AND REPLACE END
ANCHORAGE (FLARED)

STA 109+93
BEGIN REMOVE AND
REPLACE
GUARDRAIL TYP 3
REMOVE AND REPLACE
END ANCHORAGE (NON
FLARED)

STA 111+87
END REMOVE AND
REPLACE
GUARDRAIL TYP 3
REMOVE AND REPLACE
END ANCHORAGE
(FLARED)

LIMITS OF RESURFACING

EXISTING ROW

HIGH POINT DR

SB SH 93

NB SH 93

MATCH LINE STA 107+00

MATCH LINE STA 121+00

110+00

115+00

120+00

PRC 108+04.74

PT 110+38.59


PT 112+65.59

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

Print Date: 9/14/2022
File Name: 23327DES_PlanSheet_02.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

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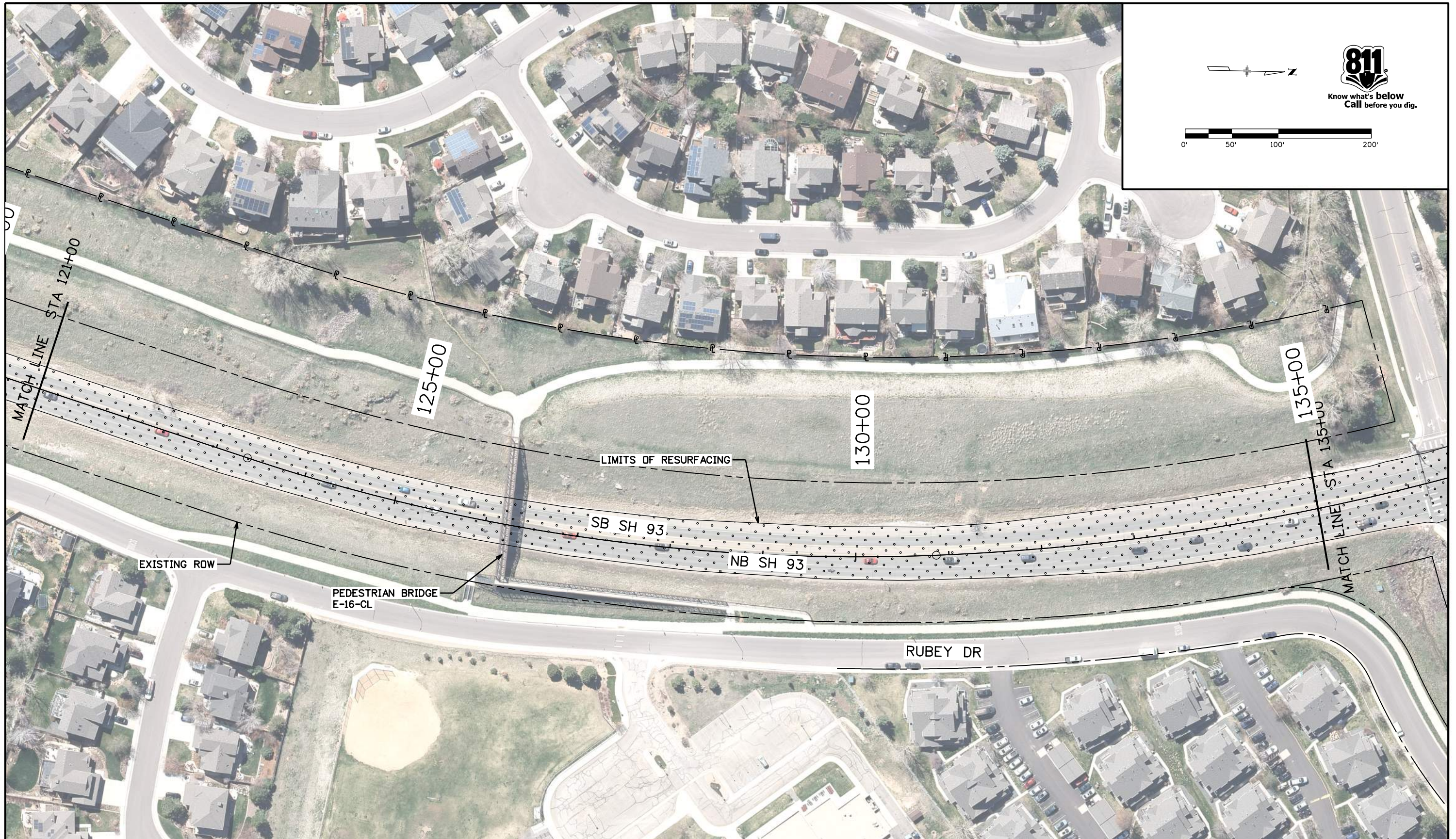
Region 1 JDS


As Constructed
No Revisions:
Revised:
Void:

ROADWAY PLAN STA 107+00 TO 121+00			
Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset:	ROADWAY	Subset Sheets:	02 of 14


Project No./Code
NHPP 0931-033
23327
Sheet Number 34

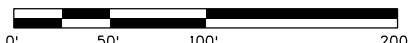
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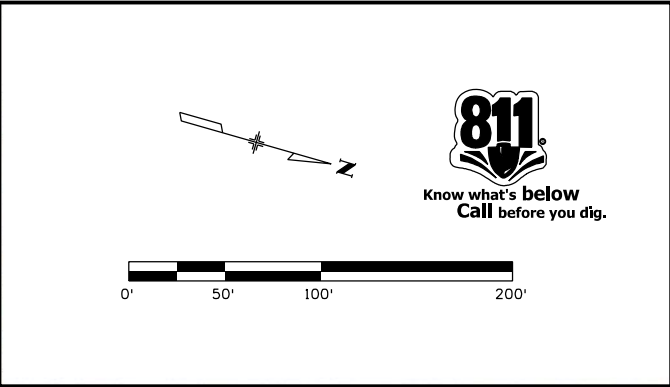
811
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/18/2022 File Name: 23327DES_PlanSheet_03.dgn Horiz. Scale: 1:100 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.										Colorado Department of Transportation  425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	ROADWAY PLAN STA 121+00 TO 135+00 Designer: AF Detailer: AF Sheet Subset: ROADWAY	Structure: E-16-CL Numbers: Subset Sheets: 03 of 14	Project No./Code NHPP 0931-033 23327 Sheet Number 35
	Date:	Comments	Init.																
	JDS	Sheet Subset: ROADWAY	Subset Sheets: 03 of 14	Sheet Number 35															

malewska 9:19:46 AM p:\cdot-pw-bentley.com\cdot-pw-01p\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TD 58TH\Design\Drawings\23327DES_PlanSheet_04.dgn



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 Horiz. Scale: 1:100 Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

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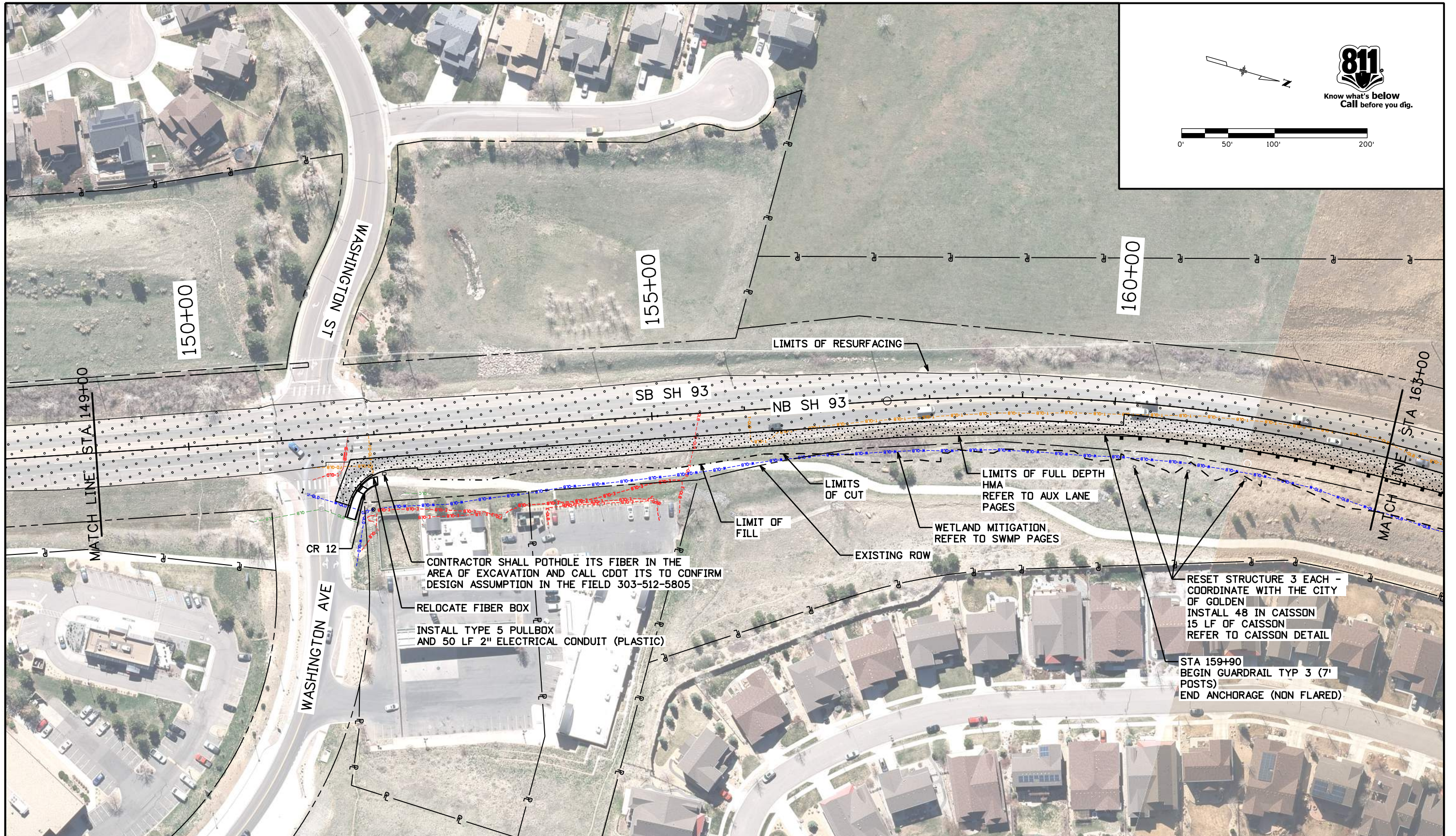
Region 1 JDS

As Constructed
No Revisions:
Revised:
Void:

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STA 135+00 TO 149+00			
Designer:	AF	Structure	
Detailer:	AF	Numbers	
Sheet Subset: ROADWAY	Subset Sheets: 04 of 14		

Project No./Code
NHPP 0931-033
23327
Sheet Number 36

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

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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 FAX: 720-497-6951

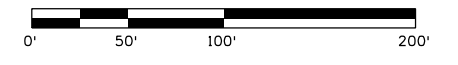
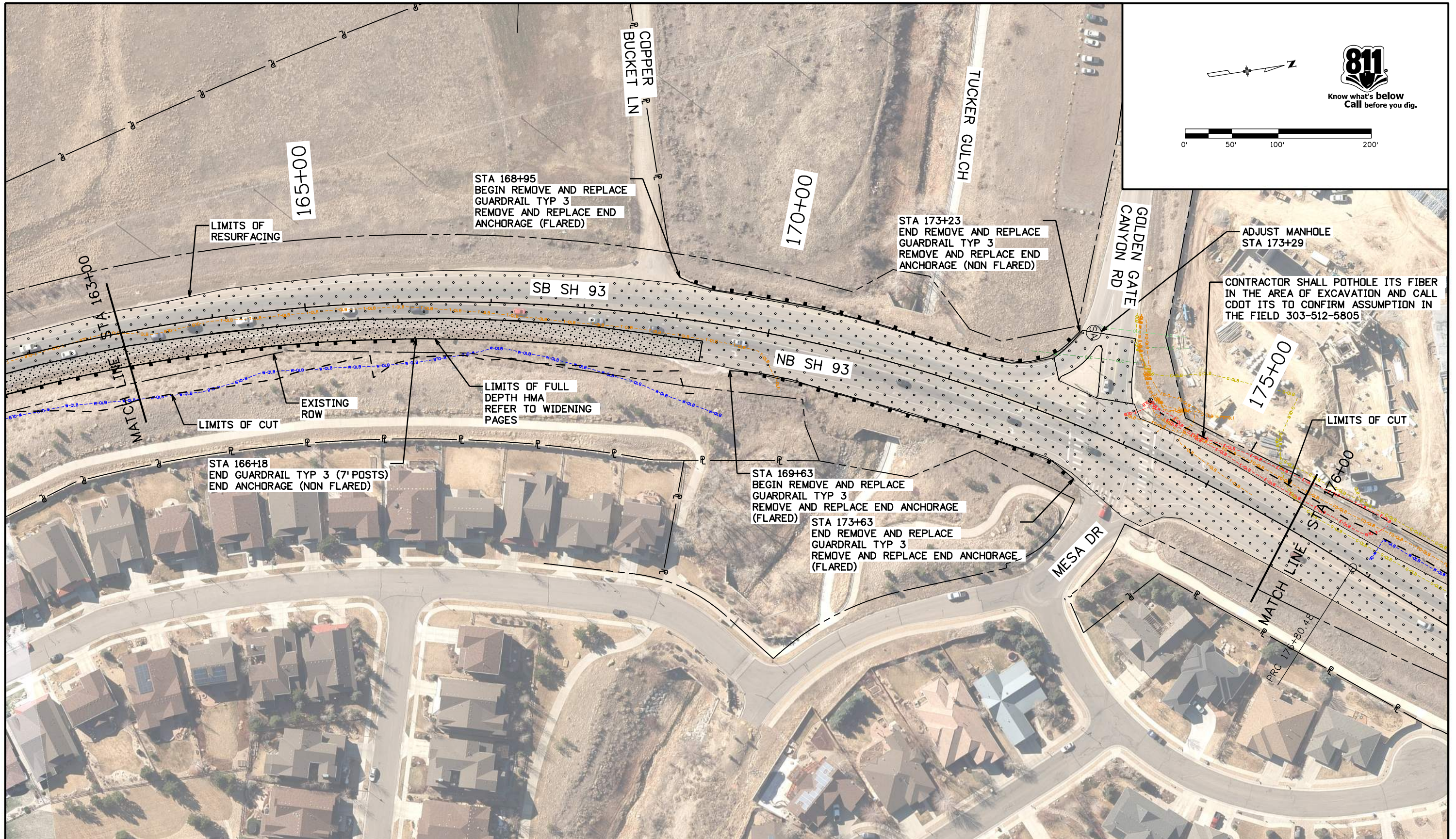
Region 1 JDS

As Constructed
No Revisions:
Revised:
Void:

ROADWAY PLAN			
STA 149+00 TO 163+00			
Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset: ROADWAY	Subset Sheets: 05 of 14		

Project No./Code
NHPP 0931-033
23327
Sheet Number 37

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Print Date: 8/22/2022
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 Horiz. Scale: 1:100 Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

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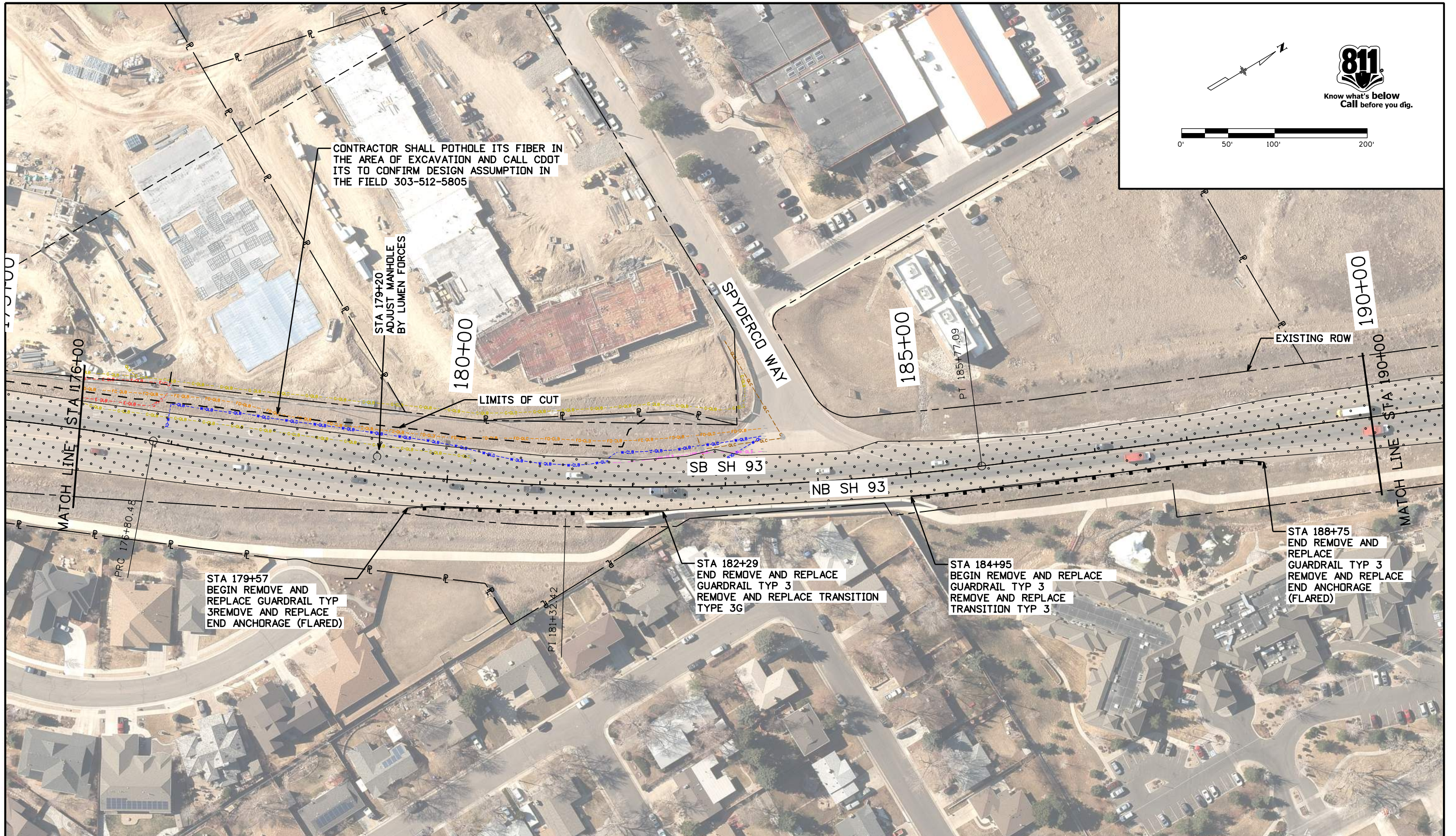
Region 1 JDS

As Constructed
No Revisions:
Revised:
Void:

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STA 163+00 TO 176+00			
Designer:	AF	Structure Numbers	E-16-IZ
Detailer:	AF	Sheet Subset: ROADWAY	Subset Sheets: 06 of 14

Project No./Code	NHPP 0931-033
Sheet Number	38

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Print Date: 10/19/2022
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Date:	Comments	Init.

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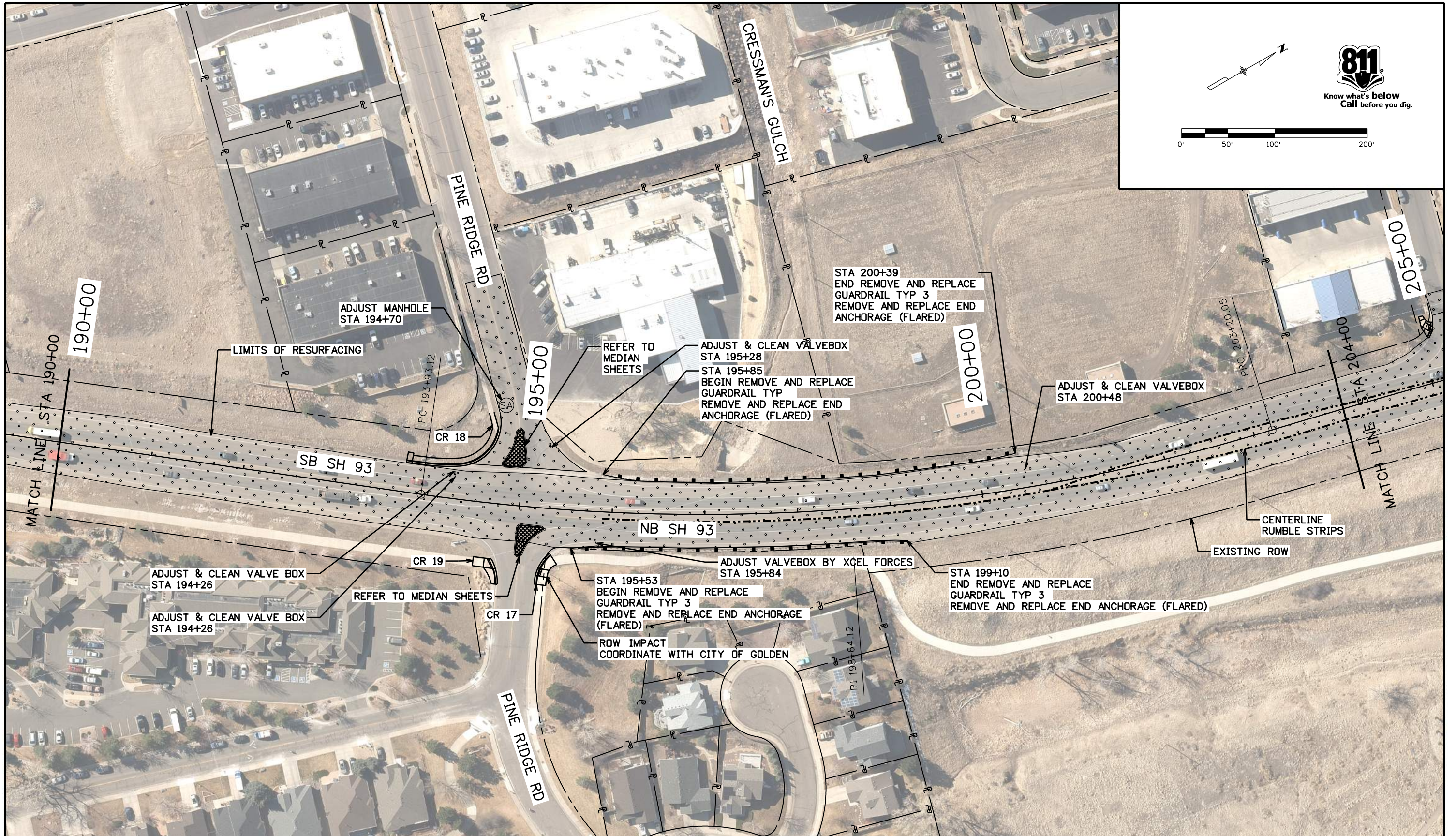
Region 1 JDS

As Constructed
No Revisions:
Revised:
Void:

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Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset: ROADWAY		Subset Sheets: 07 of 14	

Project No./Code
NHPP 0931-033
23327
Sheet Number 39

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 File Name: 23327DES_PlanSheet_08.dgn
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Sheet Revisions		
Date:	Comments	Init.

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No Revisions:

Revised:

Void:

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STA 190+00 TO 204+00			
Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset: ROADWAY	Subset Sheets: 08 of 14		

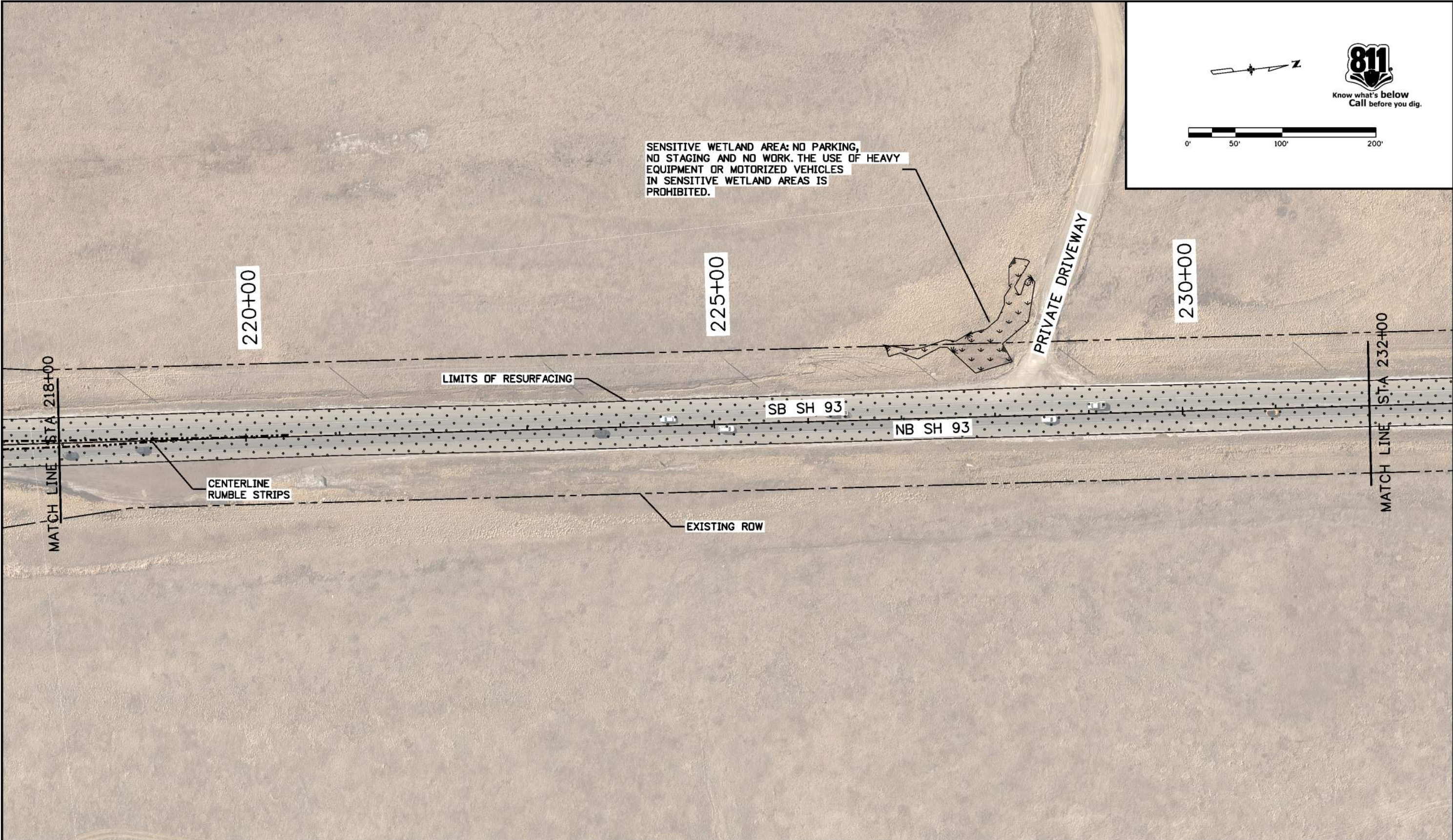
Project No./Code


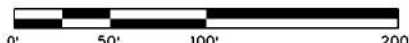
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23327

Sheet Number 40

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Print Date: 11/10/2022	
File Name: 23327DES_PlanSheet_10.dgn	
Horiz. Scale: 1:100	Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

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Region 1 **JDS**

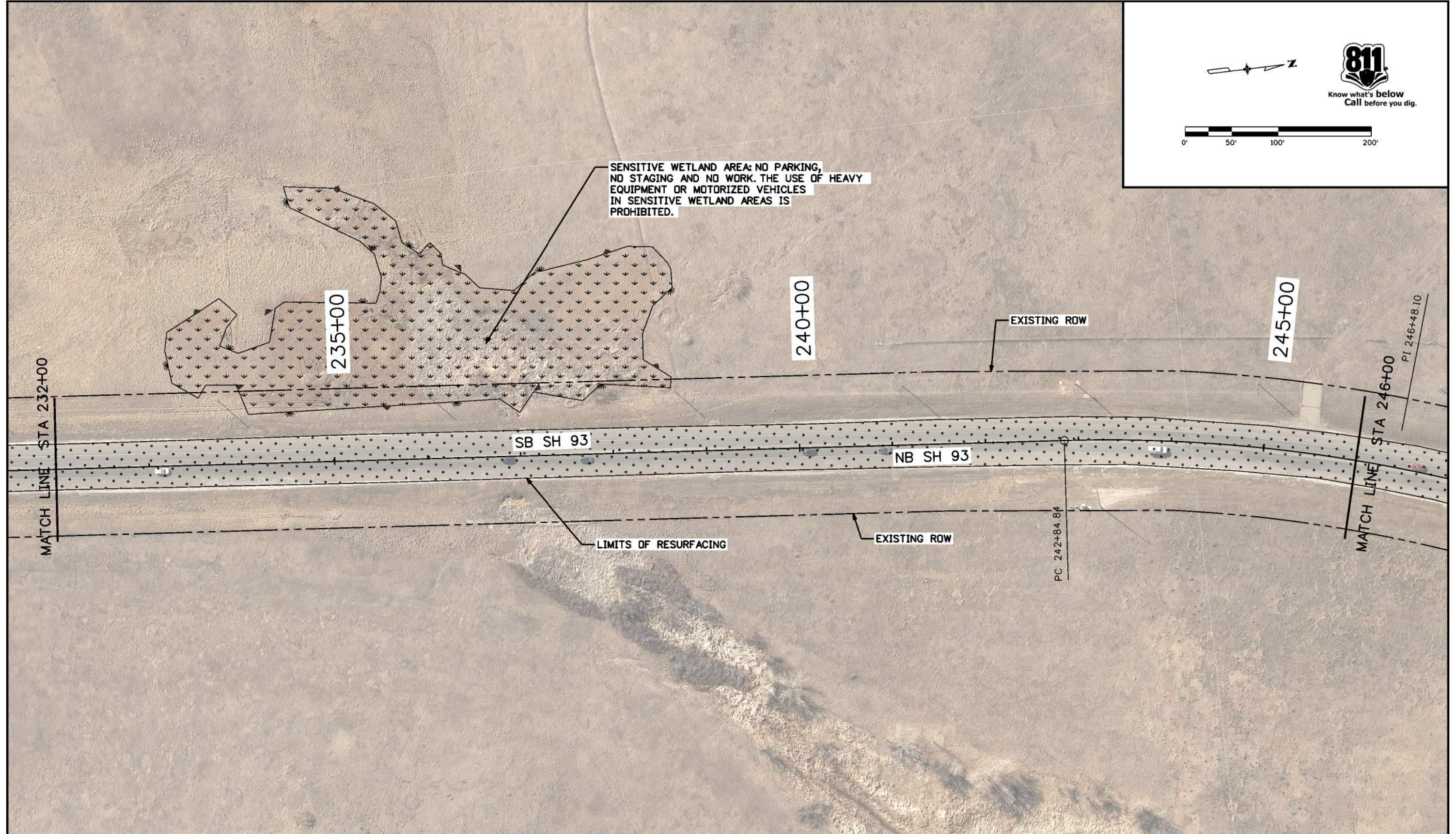
As Constructed
No Revisions:
Revised:
Void:

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Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset: ROADWAY		Subset Sheets: 10 of 14	

Project No./Code
NHPP 0931-033
23327
Sheet Number 42

farberova 3:20:03 PM pw:\cadd\pw.bentley.com\cdot-pw-01p\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH83 US6 TO 58TH\Design\Drawings\23327DES_PlanSheet_11.dgn

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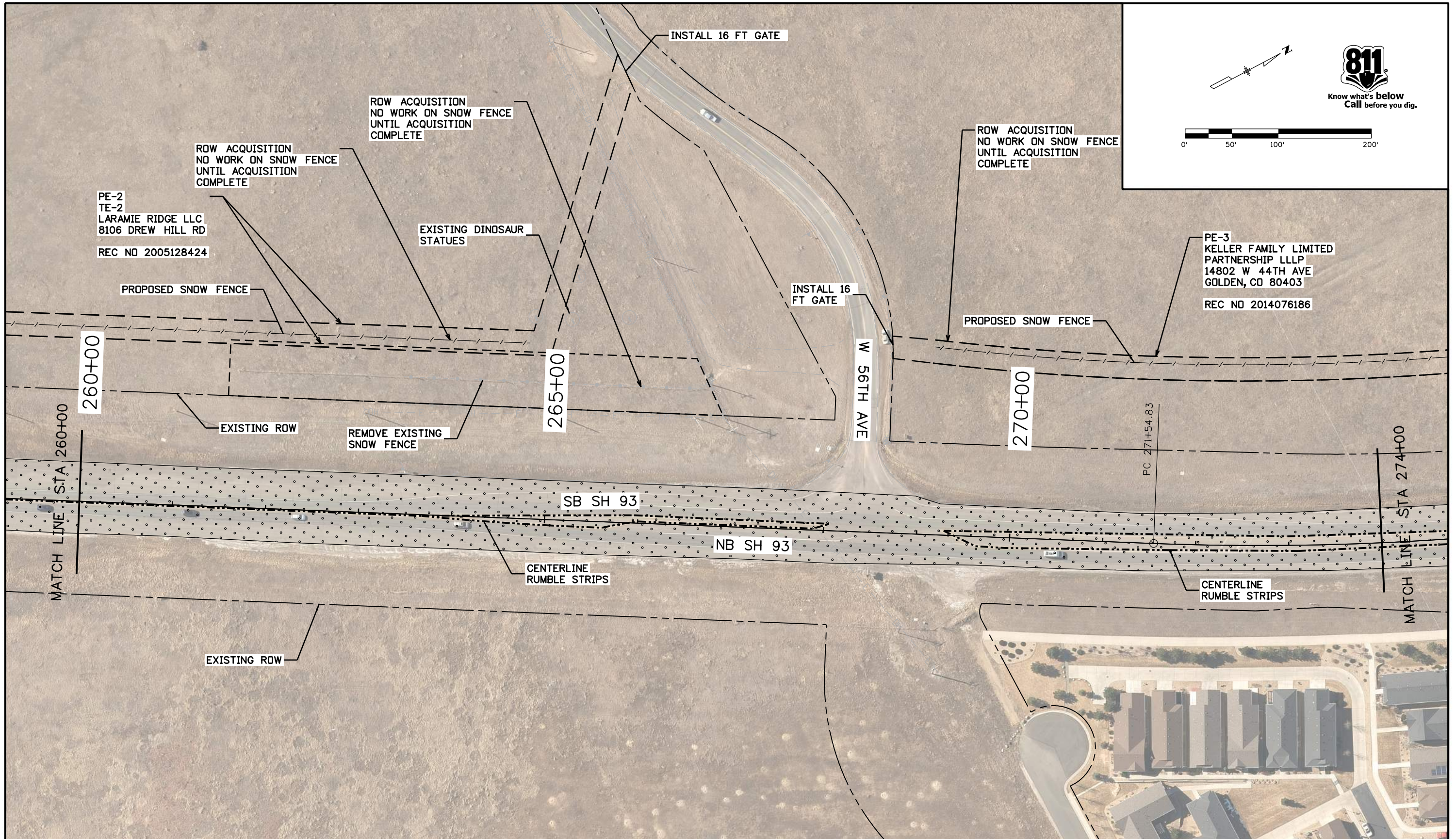
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	Horiz. Scale: 1:100 Vert. Scale: As Noted						Revised:		Designer:	AF	Structure Numbers	23327		
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 11/10/2022	Sheet Revisions			Colorado Department of Transportation			As Constructed		ROADWAY PLAN			Project No./Code		
	File Name: 23327DES_PlanSheet_12.dgn	Date:	Comments	Init.	 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951			No Revisions:		STA 246+00 TO 260+00			NHPP 0931-033		
	Horiz. Scale: 1:100 Vert. Scale: As Noted							Revised:		Designer:	AF	Structure		23327	
								Void:		Detailer:	AF	Numbers		Sheet Number 44	
				Region 1				JDS	Sheet Subset: ROADWAY		Subset Sheets: 12 of 14				

malewska 1:45:17 PM pw:\cdot-pw-bentley.com\cdot-pw-01p\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TO 56TH\Design\Drawings\23327DES_PlanSheet_13.dgn



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	Horiz. Scale: 1:100 Vert. Scale: As Noted						Revised:		Designer: AF	Structure Numbers	23327	
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malewska 2:00:03 PM pw:\cdot-pw\cdot\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TO 58TH\Design\Drawings\23327DES_PlanSheet_14.dgn

PE-3
KELLER FAMILY LIMITED
PARTNERSHIP LLLP
14802 W 44TH AVE
GOLDEN, CO 80403

REC NO 2014076186

ROW ACQUISITION -
NO WORK ON SNOW FENCE
UNTIL ACQUISITION
COMPLETE

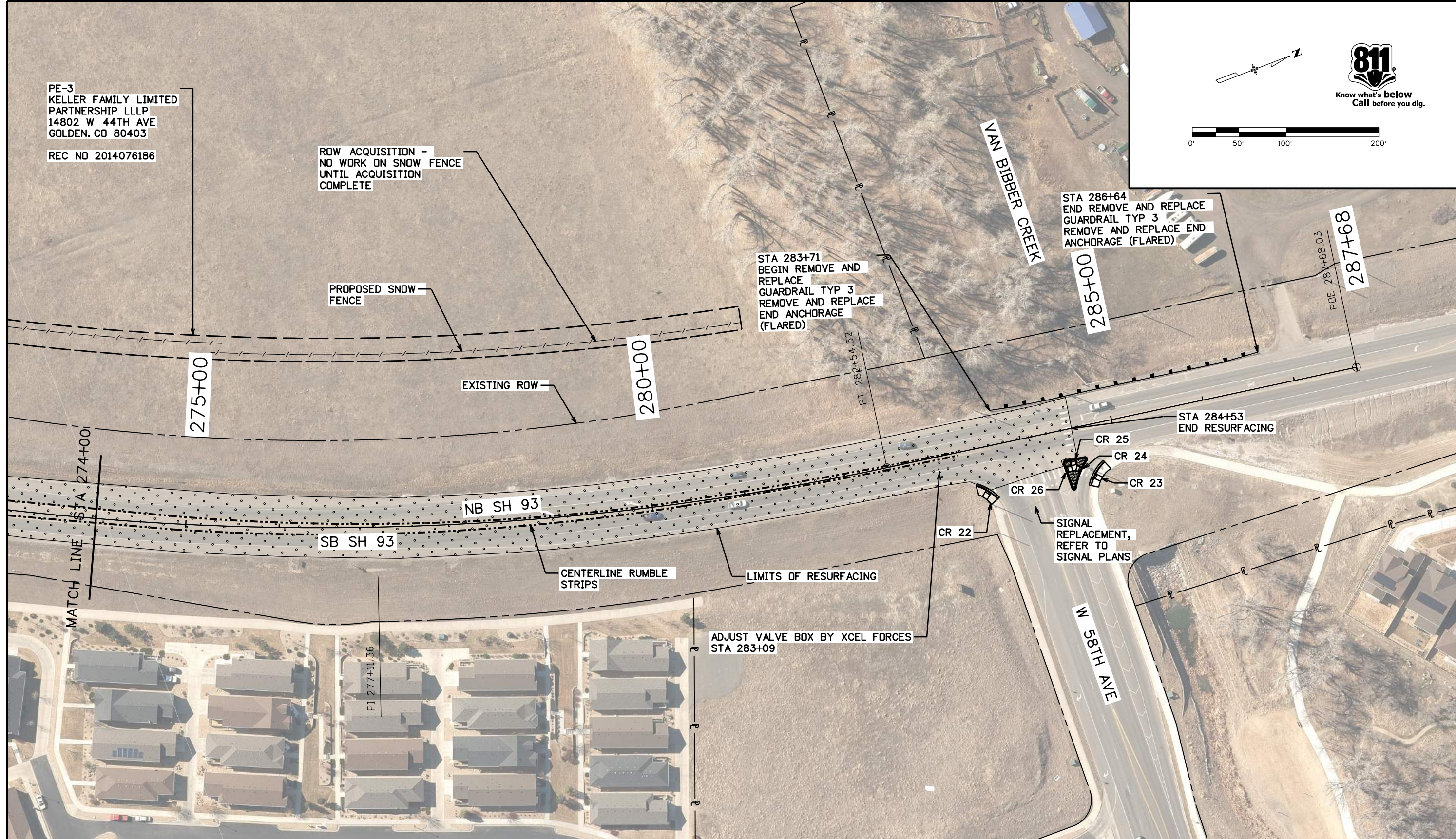
PROPOSED SNOW
FENCE

EXISTING ROW

STA 283+71
BEGIN REMOVE AND
REPLACE
GUARDRAIL TYP 3
REMOVE AND REPLACE
END ANCHORAGE
(FLARED)

STA 286+64
END REMOVE AND REPLACE
GUARDRAIL TYP 3
REMOVE AND REPLACE END
ANCHORAGE (FLARED)

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MATCH LINE STA 274+00

SB SH 93

NB SH 93

CENTERLINE RUMBLE
STRIPS

LIMITS OF RESURFACING

ADJUST VALVE BOX BY XCEL FORCES
STA 283+09

SIGNAL
REPLACEMENT,
REFER TO
SIGNAL PLANS

W 58TH AVE

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Print Date: 9/22/2022
File Name: 23327DES_PlanSheet_14.dgn
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Sheet Revisions		
Date:	Comments	Init.

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Region 1 JDS

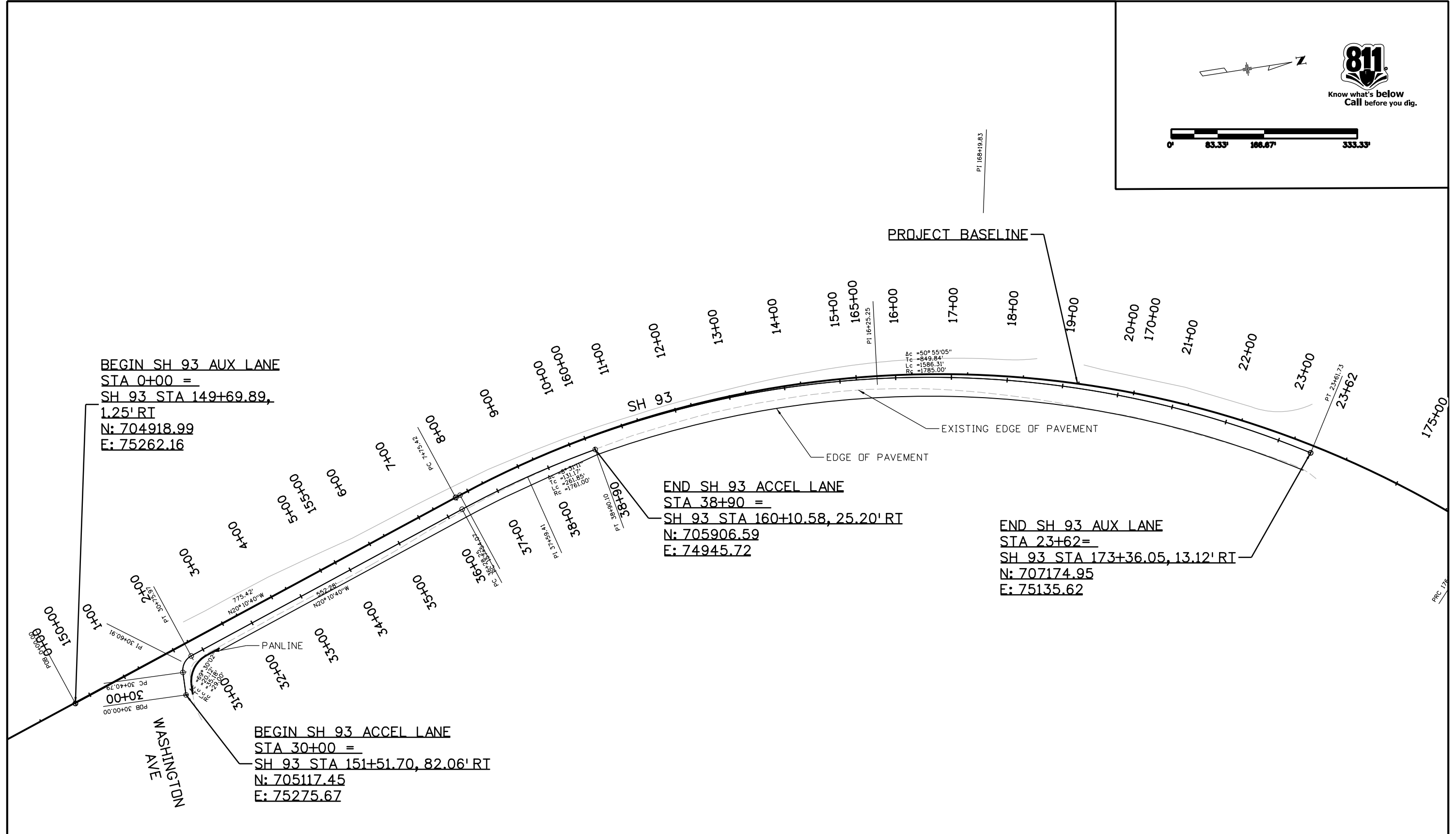
As Constructed
No Revisions:
Revised:
Void:

ROADWAY PLANS			
STA 274+00 TO END OF PROJECT			
Designer:	AF	Structure	
Detailer:	AF	Numbers	
Sheet Subset: ROADWAY	Subset Sheets: 14 of 14		

Project No./Code
NHPP 0931-033
23327
Sheet Number 46

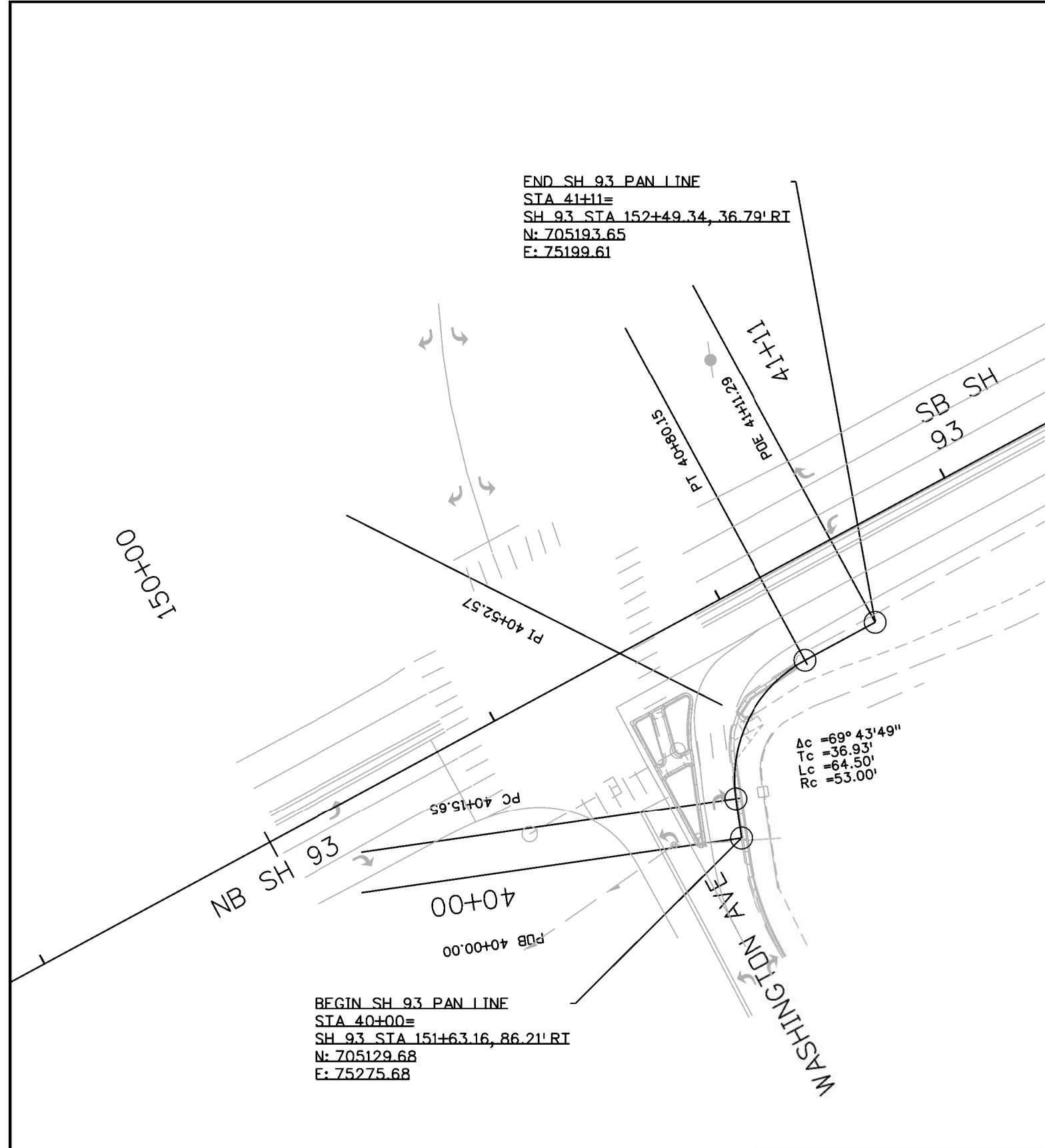
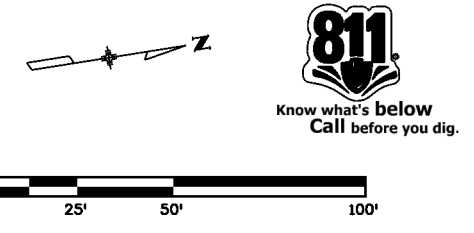
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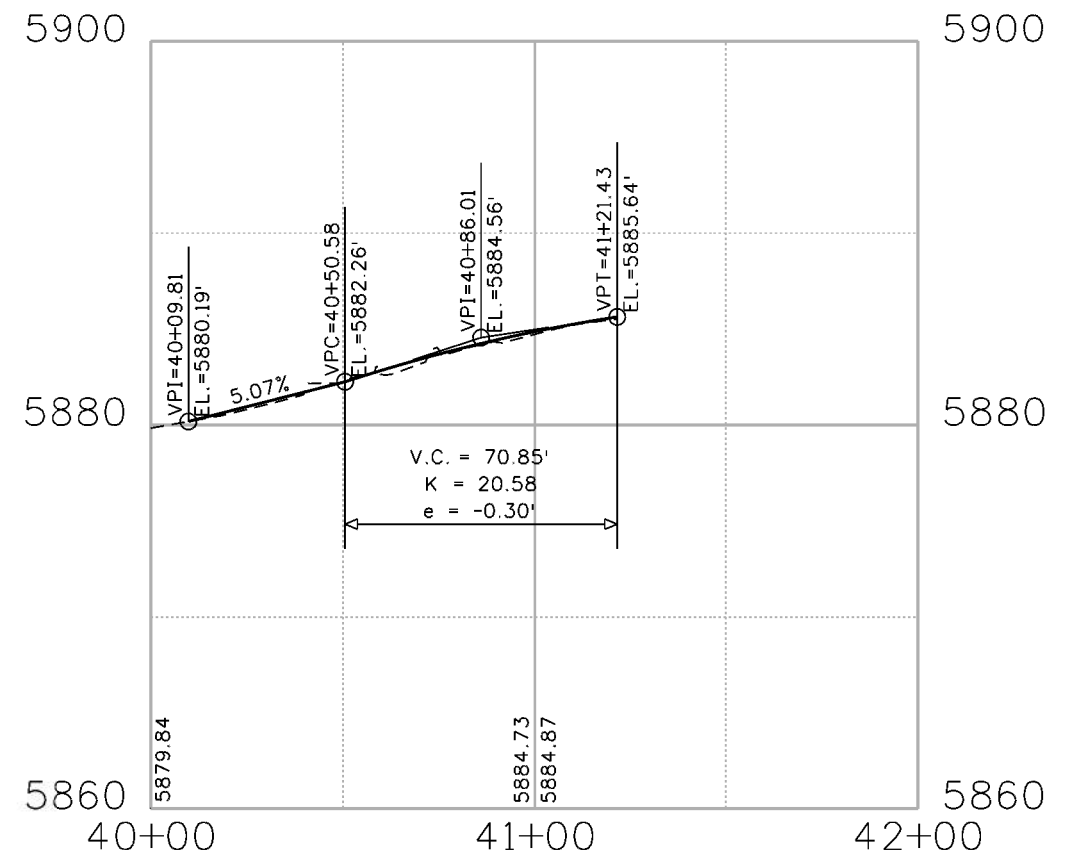
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	Date:	Comments	Init.															
		JDS																

farberova 9:17:48 AM p:\caddot-pw\benley.com\cdot-pw\01P\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TD 58TH\Design\Drawings\23327DES_Widening Geometry and Profile 2.dgn



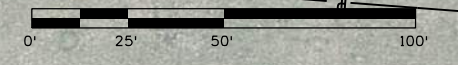
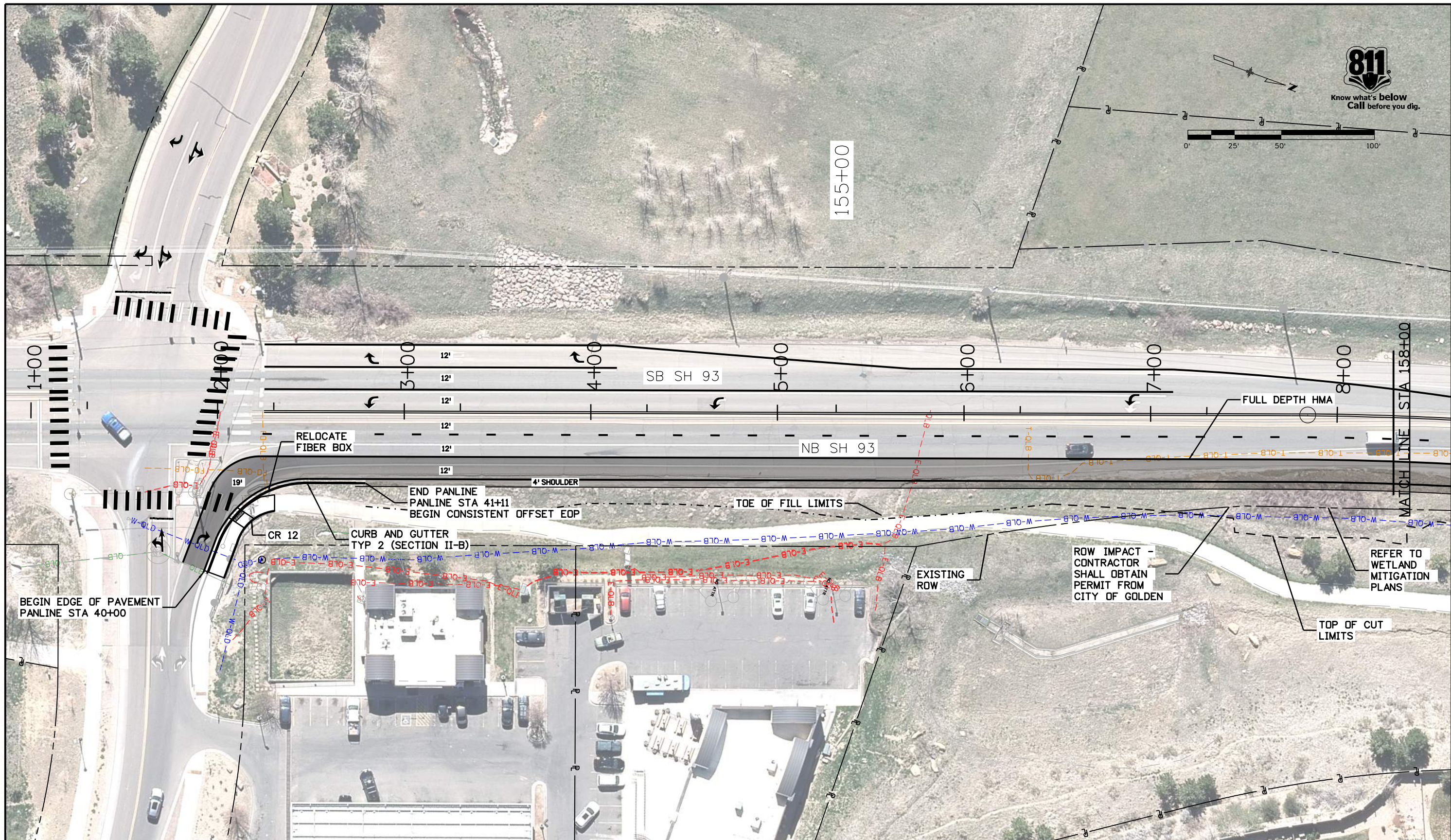
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 STA 41+11=
 SH 93 STA 152+49.34, 36.79' RT
 N: 705193.65
 E: 75199.61

BEGIN SH 93 PAN LINE
 STA 40+00=
 SH 93 STA 151+63.16, 86.21' RT
 N: 705129.68
 E: 75275.68



All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/17/2022 File Name: 23327DES_Widening Geometry and Profile 2.dgn Horiz. Scale: 1:50 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.										Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	PANLINE ALIGNMENT AND PROFILE Designer: AF Detailer: AF Sheet Subset: PANLINE Subset Sheets: 1 of 1	Project No./Code NHPP 0931-033 23327 Sheet Number 48
	Date:	Comments	Init.															
JDS																		
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malewska 1:4:32 PM p:\cdot-pw\benley.com\cdot-pw\01p\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TO 58TH\Design\Drawings\23327DES_Aux Lane 1.dgn



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Print Date: 10/4/2022
 File Name: 23327DES_Aux Lane 1.dgn
 Horiz. Scale: 1:50 Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

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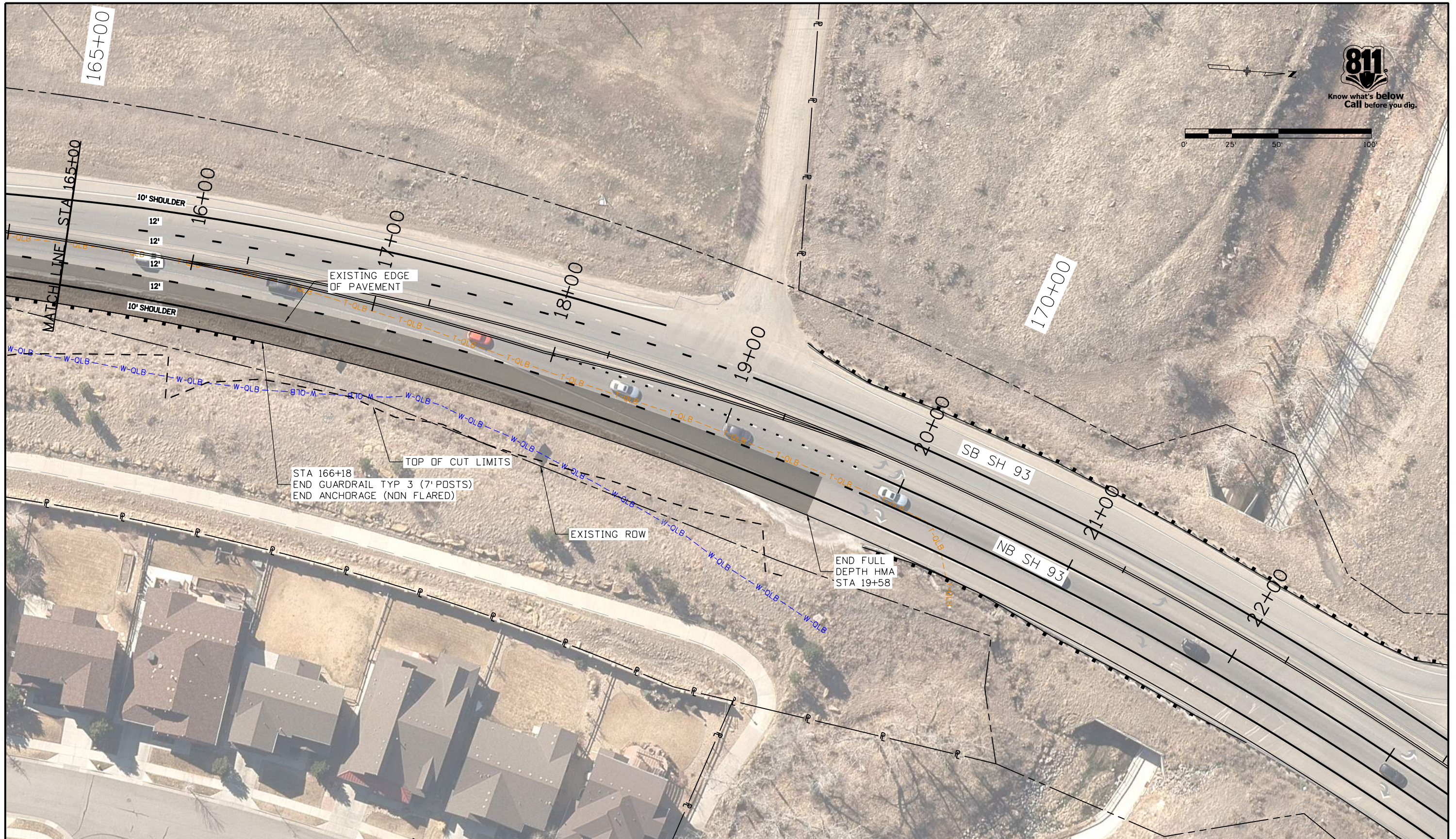
JDS

As Constructed
 No Revisions:
 Revised:
 Void:

AUX LANE LAYOUT			
Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset:	AUX	Subset Sheets:	01 of 03

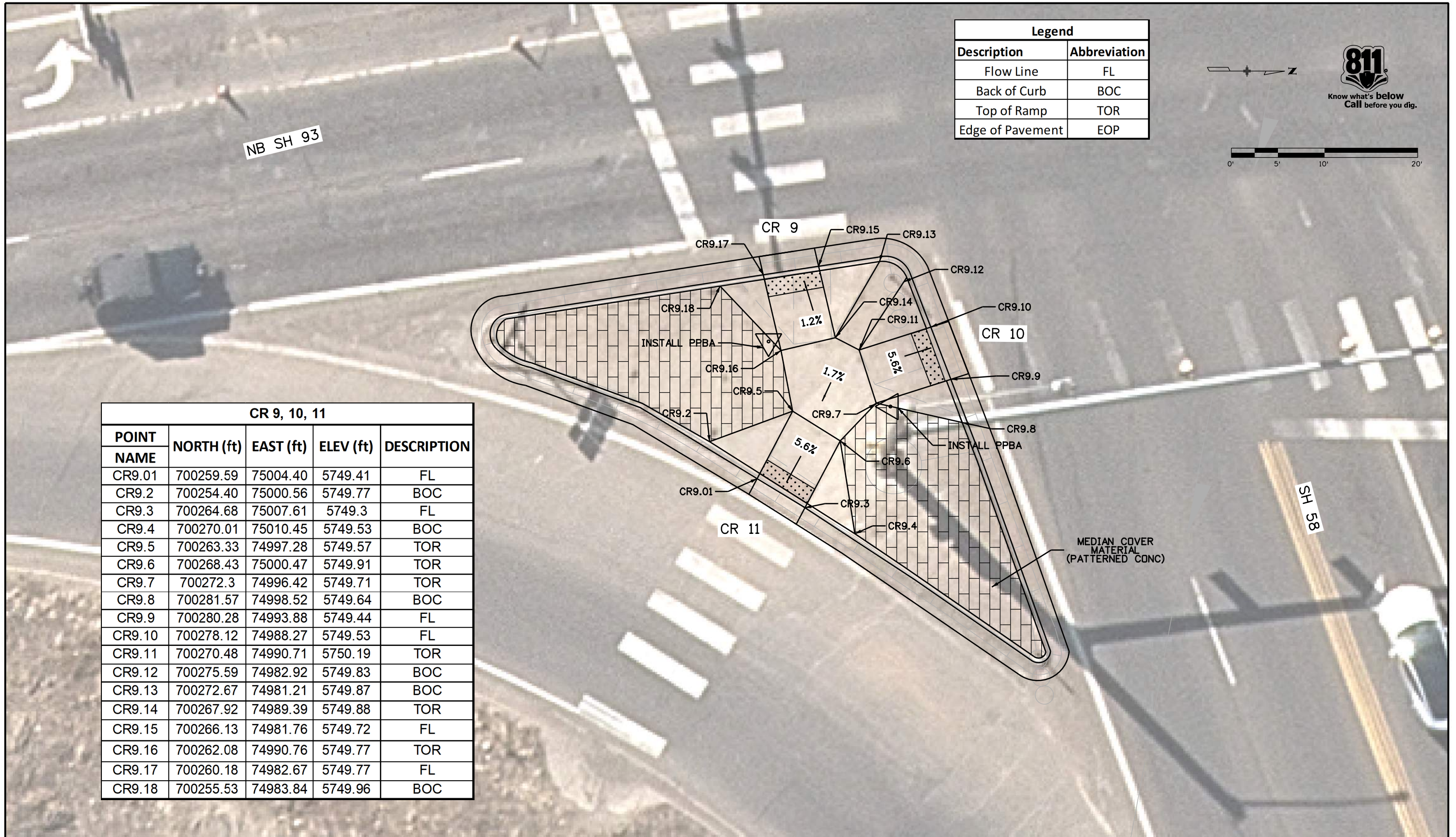
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 23327
 Sheet Number 49

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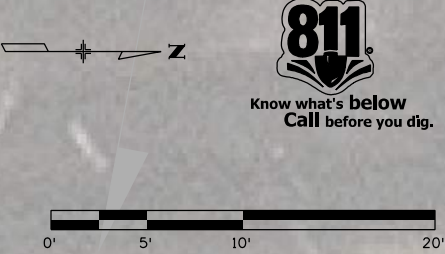


All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/13/2022 File Name: 23327DES_Aux Lane 3.dgn Horiz. Scale: 1:50 Vert. Scale: As Noted	<table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Sheet Revisions			Date:	Comments	Init.							Colorado Department of Transportation  425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	<table border="1"> <thead> <tr> <th colspan="2">As Constructed</th> </tr> </thead> <tbody> <tr> <td>No Revisions:</td> <td> </td> </tr> <tr> <td>Revised:</td> <td> </td> </tr> <tr> <td>Void:</td> <td> </td> </tr> </tbody> </table>	As Constructed		No Revisions:		Revised:		Void:		<table border="1"> <thead> <tr> <th colspan="4">AUX LANE LAYOUT</th> </tr> </thead> <tbody> <tr> <td>Designer:</td> <td>AF</td> <td>Structure Numbers</td> <td> </td> </tr> <tr> <td>Detailer:</td> <td>AF</td> <td> </td> <td> </td> </tr> <tr> <td>Sheet Subset:</td> <td>AUX</td> <td>Subset Sheets:</td> <td>03 of 03</td> </tr> </tbody> </table>	AUX LANE LAYOUT				Designer:	AF	Structure Numbers		Detailer:	AF			Sheet Subset:	AUX	Subset Sheets:	03 of 03	<table border="1"> <thead> <tr> <th colspan="2">Project No./Code</th> </tr> </thead> <tbody> <tr> <td>NHPP</td> <td>0931-033</td> </tr> <tr> <td> </td> <td>23327</td> </tr> <tr> <td>Sheet Number</td> <td>51</td> </tr> </tbody> </table>	Project No./Code		NHPP	0931-033		23327	Sheet Number	51
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Legend	
Description	Abbreviation
Flow Line	FL
Back of Curb	BOC
Top of Ramp	TOR
Edge of Pavement	EOP



CR 9, 10, 11				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR9.01	700259.59	75004.40	5749.41	FL
CR9.2	700254.40	75000.56	5749.77	BOC
CR9.3	700264.68	75007.61	5749.3	FL
CR9.4	700270.01	75010.45	5749.53	BOC
CR9.5	700263.33	74997.28	5749.57	TOR
CR9.6	700268.43	75000.47	5749.91	TOR
CR9.7	700272.3	74996.42	5749.71	TOR
CR9.8	700281.57	74998.52	5749.64	BOC
CR9.9	700280.28	74993.88	5749.44	FL
CR9.10	700278.12	74988.27	5749.53	FL
CR9.11	700270.48	74990.71	5750.19	TOR
CR9.12	700275.59	74982.92	5749.83	BOC
CR9.13	700272.67	74981.21	5749.87	BOC
CR9.14	700267.92	74989.39	5749.88	TOR
CR9.15	700266.13	74981.76	5749.72	FL
CR9.16	700262.08	74990.76	5749.77	TOR
CR9.17	700260.18	74982.67	5749.77	FL
CR9.18	700255.53	74983.84	5749.96	BOC

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

Print Date: 9/29/2022
 File Name: 23327DES_Curb Ramp 01.dgn
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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 Region 1 JDS

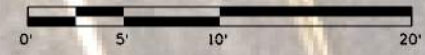
425 A Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6959
 FAX: 720-497-6951

As Constructed
No Revisions:
Revised:
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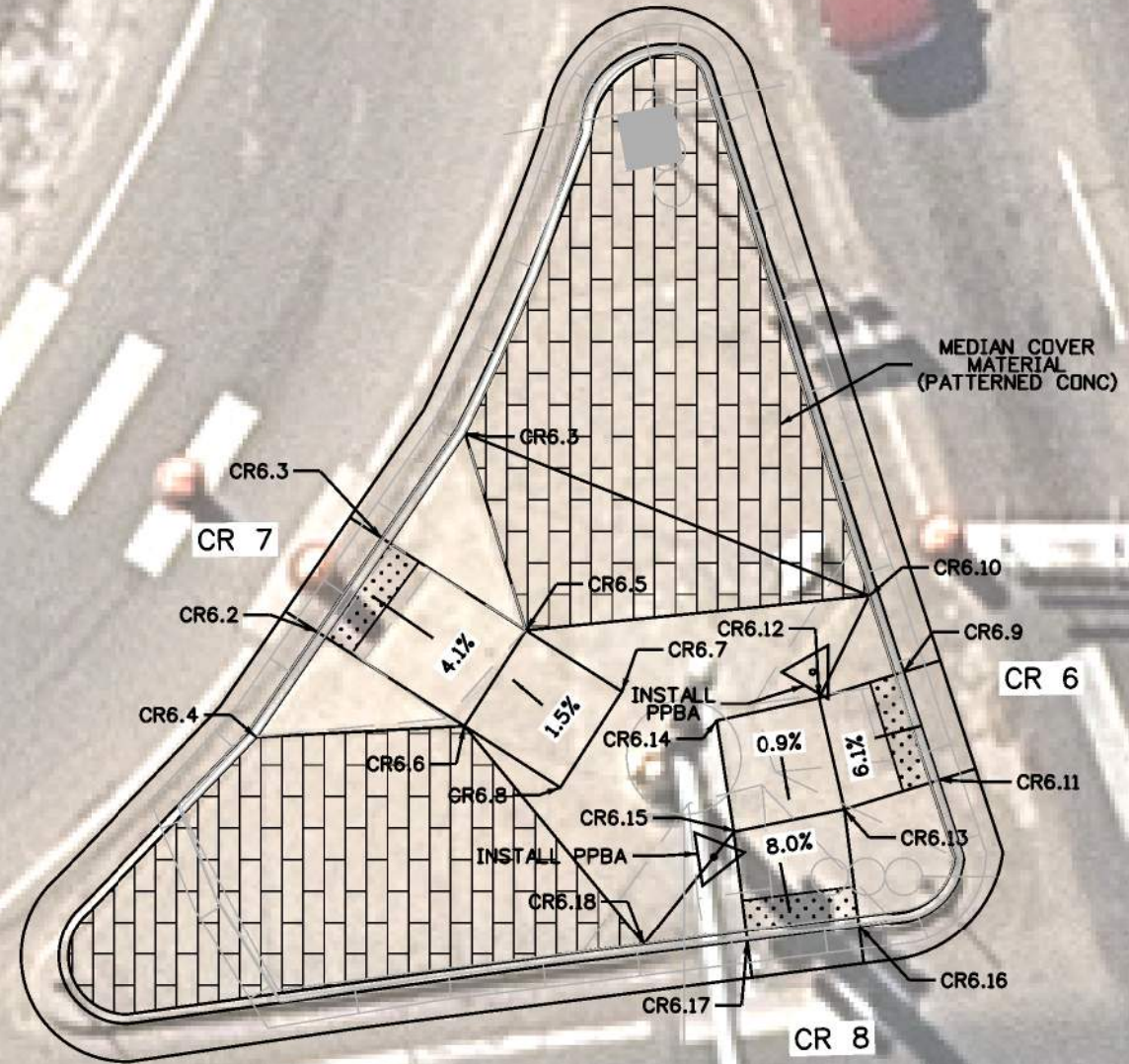
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Detailer:	AF		
Sheet Subset:	CURB RAMP	Subset Sheets:	01 of 11

Project No./Code
NHPP 0931-033
23327
Sheet Number 52

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CR 6, 7, 8				
POINT				
NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR6.01	700214.64	74880.47	5752.11	FL
CR6.2	700211.23	74885.41	5752.13	FL
CR6.3	700219.01	74874.94	5752.61	BOC
CR6.4	700208.02	74890.97	5752.53	BOC
CR6.5	700222.21	74885.33	5752.53	TOR
CR6.6	700218.97	74890.38	5752.53	TOR
CR6.7	700227.27	74888.56	5752.44	TOL
CR6.8	700224.02	74893.62	5752.44	TOL
CR6.9	700242.19	74887.51	5751.80	FL
CR6.10	700240.36	74883.50	5752.26	BOC
CR6.11	700244.06	74893.22	5751.68	FL
CR6.12	700237.72	74888.90	5752.03	TOR
CR6.13	700239.05	74894.77	5752.06	TOR
CR6.14	700232.26	74890.09	5752.11	TOL
CR6.15	700233.17	74895.95	5751.97	TOL
CR6.16	700239.82	74900.96	5751.49	FL
CR6.17	700233.88	74901.71	5751.56	FL
CR6.18	700228.43	74901.90	5752.08	BOC



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

Print Date: 9/8/2022
File Name: 23327DES_Curb Ramp 02.dgn
Horiz. Scale: 1:10 Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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Golden, CO 80401
Phone: 720-497-6959
FAX: 720-497-6951

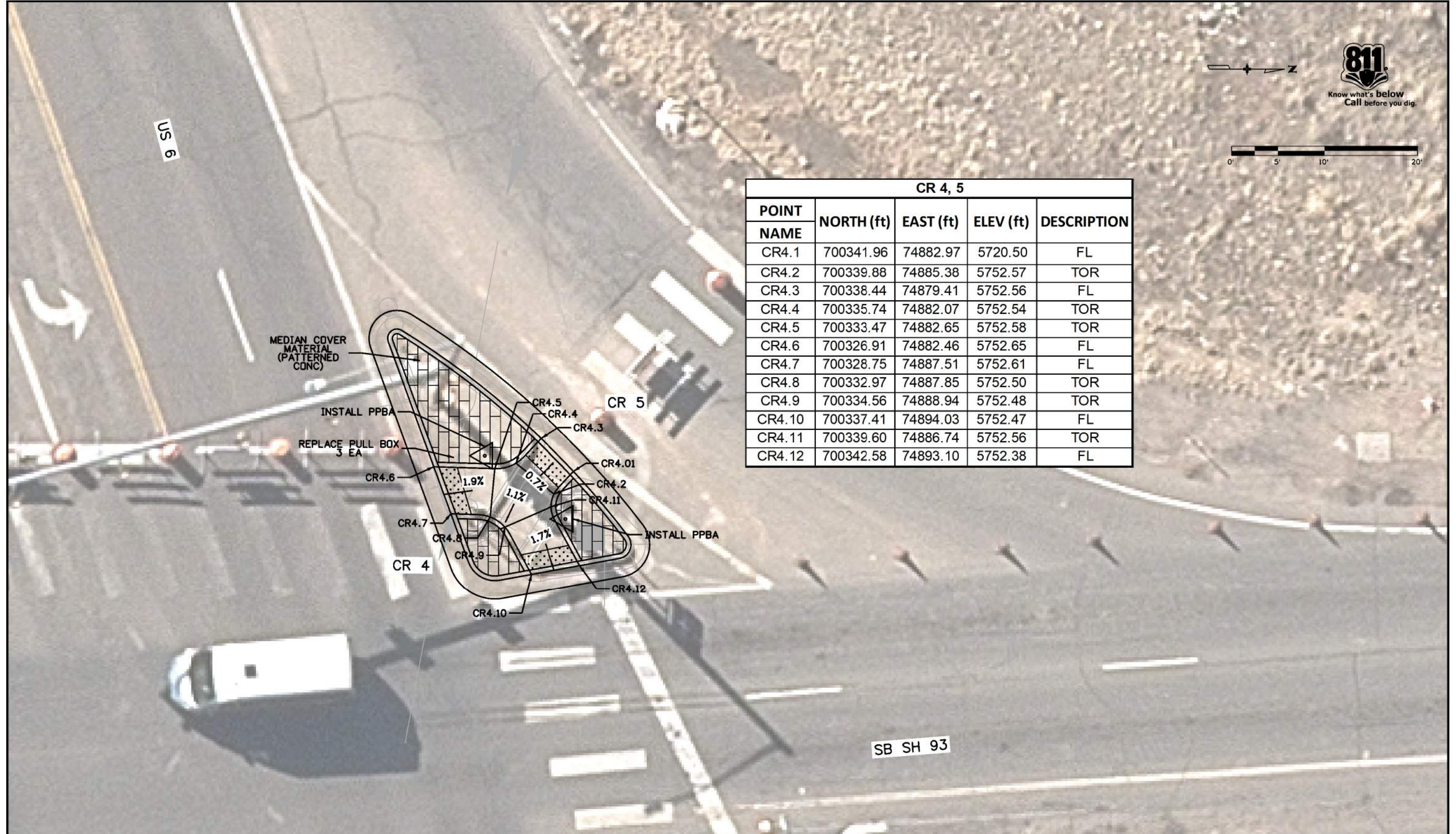
Region 1 JDS

As Constructed
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Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset:	CURB RAMP	Subset Sheets:	02 of 111

Project No./Code	NHPP 0931-033
	23327
Sheet Number	53

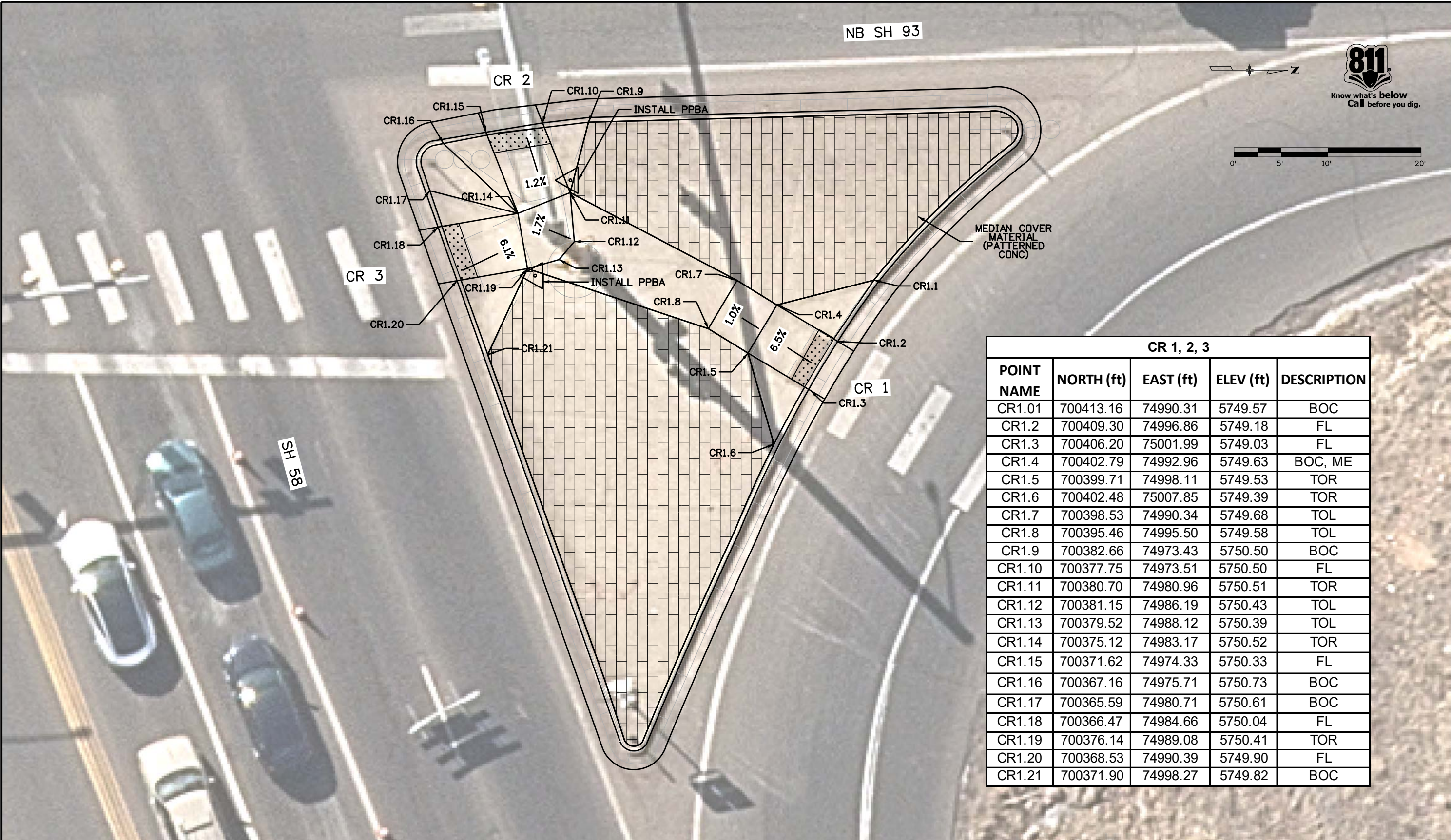
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CR 4, 5				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR4.1	700341.96	74882.97	5720.50	FL
CR4.2	700339.88	74885.38	5752.57	TOR
CR4.3	700338.44	74879.41	5752.56	FL
CR4.4	700335.74	74882.07	5752.54	TOR
CR4.5	700333.47	74882.65	5752.58	TOR
CR4.6	700326.91	74882.46	5752.65	FL
CR4.7	700328.75	74887.51	5752.61	FL
CR4.8	700332.97	74887.85	5752.50	TOR
CR4.9	700334.56	74888.94	5752.48	TOR
CR4.10	700337.41	74894.03	5752.47	FL
CR4.11	700339.60	74886.74	5752.56	TOR
CR4.12	700342.58	74893.10	5752.38	FL

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/8/2022	0000 0000	Sheet Revisions			Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed		CURB RAMP DETAIL			Project No./Code													
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	Date:		Comments	Init.																					
Horiz. Scale: 1:10 Vert. Scale: As Noted				Revised:		Designer: AF	Structure Numbers	23327																	
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CR 1, 2, 3				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR1.01	700413.16	74990.31	5749.57	BOC
CR1.2	700409.30	74996.86	5749.18	FL
CR1.3	700406.20	75001.99	5749.03	FL
CR1.4	700402.79	74992.96	5749.63	BOC, ME
CR1.5	700399.71	74998.11	5749.53	TOR
CR1.6	700402.48	75007.85	5749.39	TOR
CR1.7	700398.53	74990.34	5749.68	TOL
CR1.8	700395.46	74995.50	5749.58	TOL
CR1.9	700382.66	74973.43	5750.50	BOC
CR1.10	700377.75	74973.51	5750.50	FL
CR1.11	700380.70	74980.96	5750.51	TOR
CR1.12	700381.15	74986.19	5750.43	TOL
CR1.13	700379.52	74988.12	5750.39	TOL
CR1.14	700375.12	74983.17	5750.52	TOR
CR1.15	700371.62	74974.33	5750.33	FL
CR1.16	700367.16	74975.71	5750.73	BOC
CR1.17	700365.59	74980.71	5750.61	BOC
CR1.18	700366.47	74984.66	5750.04	FL
CR1.19	700376.14	74989.08	5750.41	TOR
CR1.20	700368.53	74990.39	5749.90	FL
CR1.21	700371.90	74998.27	5749.82	BOC

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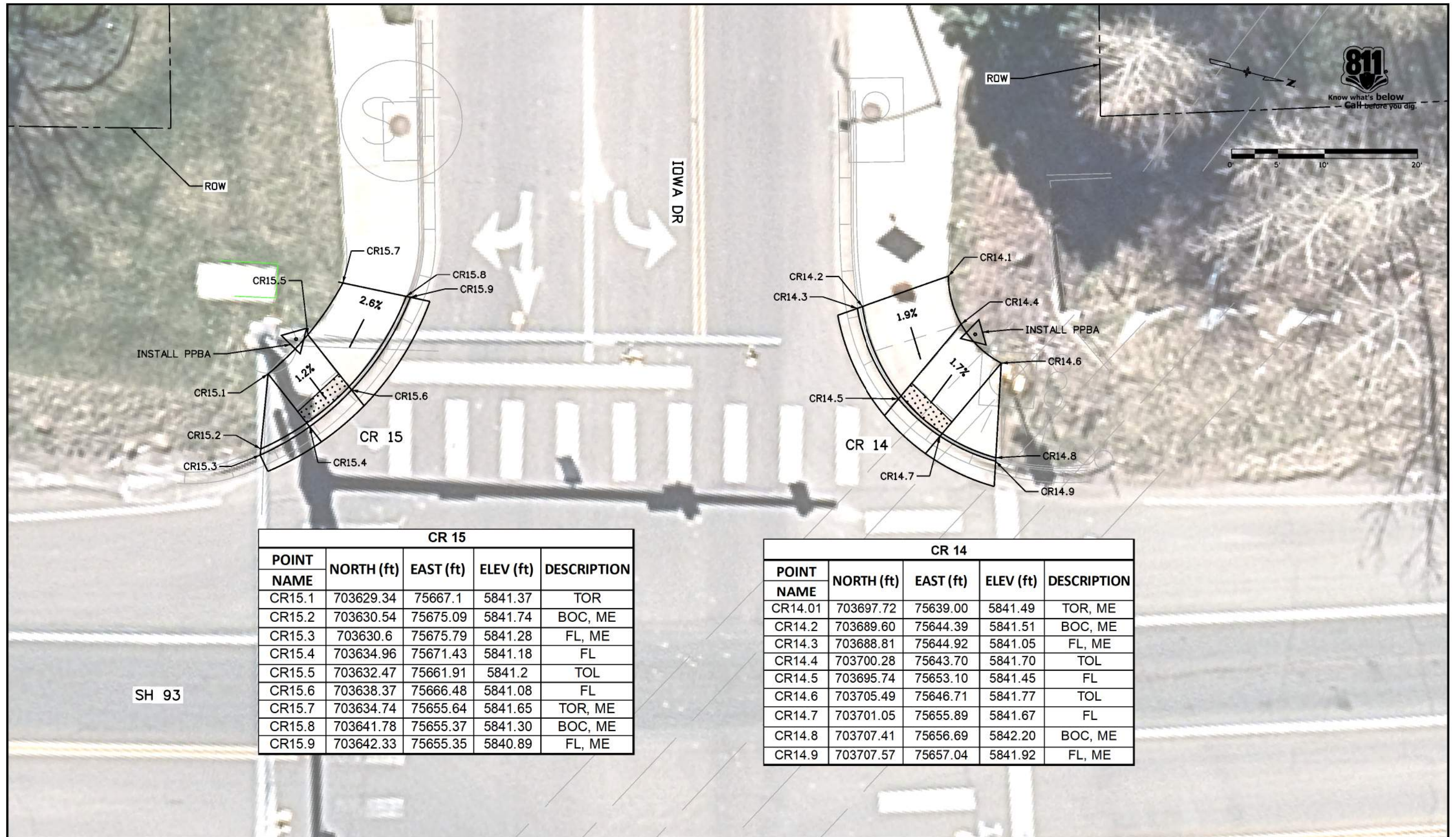
Colorado Department of Transportation
 Region 1
 425 A Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6959
 FAX: 720-497-6951
 JDS

As Constructed
 No Revisions:
 Revised:
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CURB RAMP DETAILS SH 93/ US 6 INTERSECTION			
Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset:	CURB RAMP	Subset Sheets:	4 of 11

Project No./Code
 NHPP 0931-033
 23327
 Sheet Number 55

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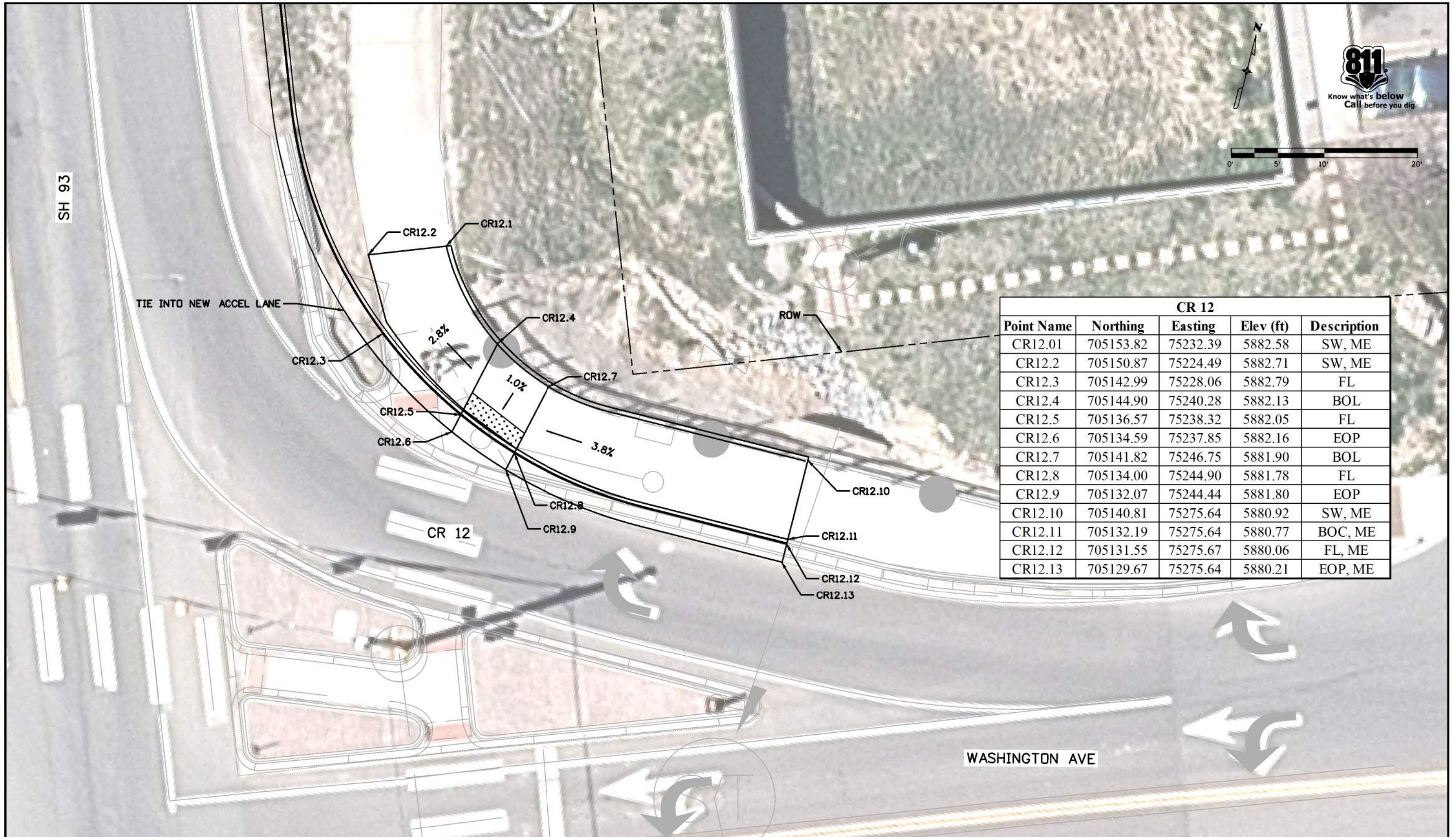


CR 15				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR15.1	703629.34	75667.1	5841.37	TOR
CR15.2	703630.54	75675.09	5841.74	BOC, ME
CR15.3	703630.6	75675.79	5841.28	FL, ME
CR15.4	703634.96	75671.43	5841.18	FL
CR15.5	703632.47	75661.91	5841.2	TOL
CR15.6	703638.37	75666.48	5841.08	FL
CR15.7	703634.74	75655.64	5841.65	TOR, ME
CR15.8	703641.78	75655.37	5841.30	BOC, ME
CR15.9	703642.33	75655.35	5840.89	FL, ME

CR 14				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR14.01	703697.72	75639.00	5841.49	TOR, ME
CR14.2	703689.60	75644.39	5841.51	BOC, ME
CR14.3	703688.81	75644.92	5841.05	FL, ME
CR14.4	703700.28	75643.70	5841.70	TOL
CR14.5	703695.74	75653.10	5841.45	FL
CR14.6	703705.49	75646.71	5841.77	TOL
CR14.7	703701.05	75655.89	5841.67	FL
CR14.8	703707.41	75656.69	5842.20	BOC, ME
CR14.9	703707.57	75657.04	5841.92	FL, ME

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/8/2022	Sheet Revisions			Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed		CURB RAMP DETAIL		Project No./Code
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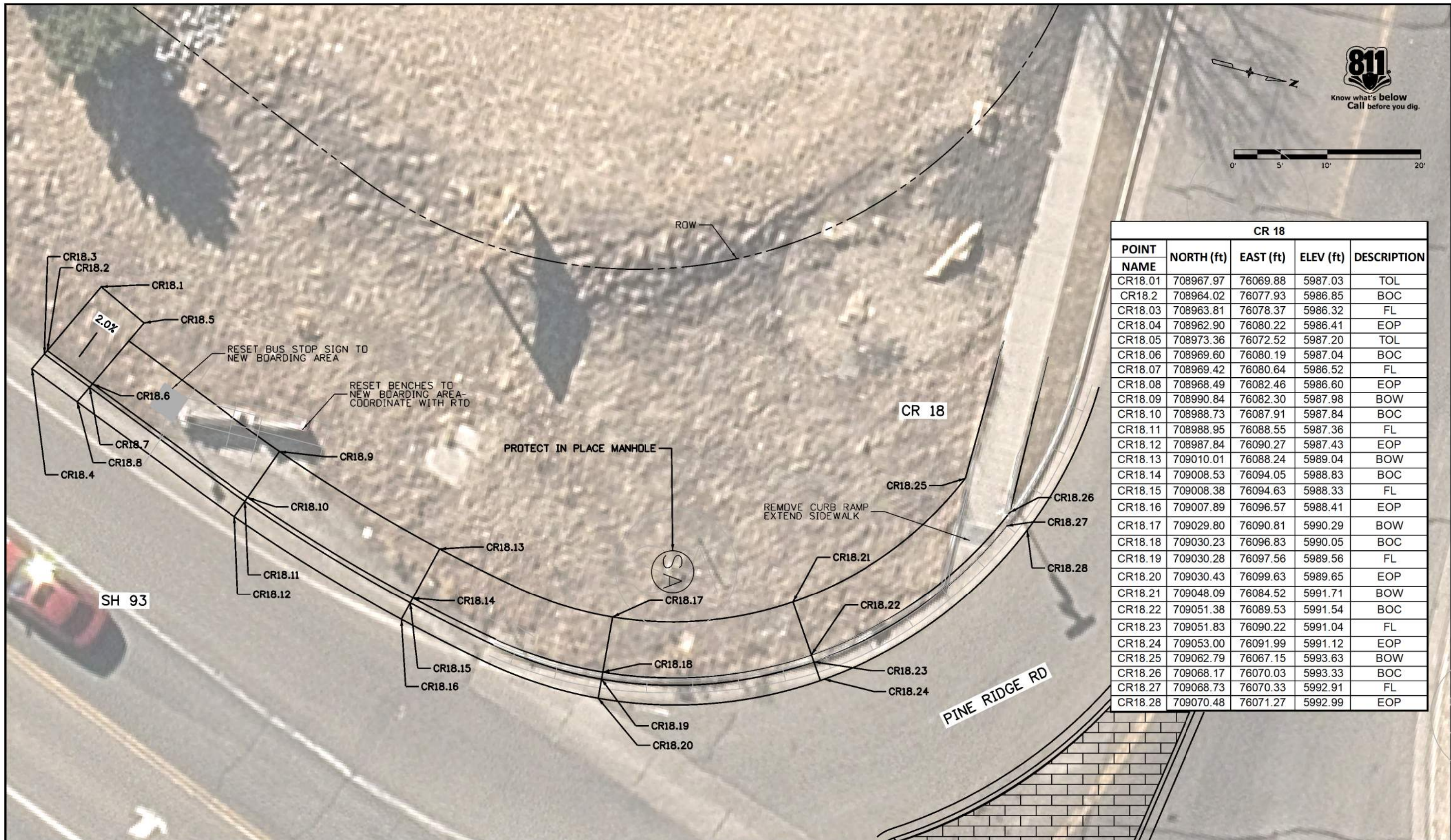
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CR 12				
Point Name	Northing	Easting	Elev (ft)	Description
CR12.01	705153.82	75232.39	5882.58	SW, ME
CR12.2	705150.87	75224.49	5882.71	SW, ME
CR12.3	705142.99	75228.06	5882.79	FL
CR12.4	705144.90	75240.28	5882.13	BOL
CR12.5	705136.57	75238.32	5882.05	FL
CR12.6	705134.59	75237.85	5882.16	EOP
CR12.7	705141.82	75246.75	5881.90	BOL
CR12.8	705134.00	75244.90	5881.78	FL
CR12.9	705132.07	75244.44	5881.80	EOP
CR12.10	705140.81	75275.64	5880.92	SW, ME
CR12.11	705132.19	75275.64	5880.77	BOC, ME
CR12.12	705131.55	75275.67	5880.06	FL, ME
CR12.13	705129.67	75275.64	5880.21	EOP, ME

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/8/2022 File Name: 23327DES_Curb Ramp 07.dgn Horiz. Scale: 1:10 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.													Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	CURB RAMP DETAILS WASHINGTON AVE Designer: AF Detailer: AF Sheet Subset: CURB RAMP Subset Sheets: 7 of 11	Project No./Code NHPP 0931-033 23327 Sheet Number 58
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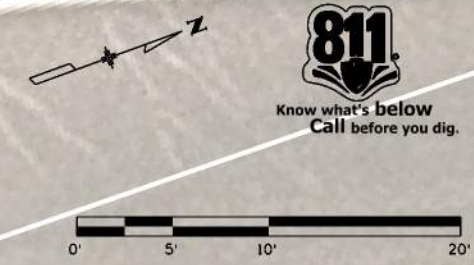
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CR18.01	708967.97	76069.88	5987.03	TOL
CR18.02	708964.02	76077.93	5986.85	BOC
CR18.03	708963.81	76078.37	5986.32	FL
CR18.04	708962.90	76080.22	5986.41	EOP
CR18.05	708973.36	76072.52	5987.20	TOL
CR18.06	708969.60	76080.19	5987.04	BOC
CR18.07	708969.42	76080.64	5986.52	FL
CR18.08	708968.49	76082.46	5986.60	EOP
CR18.09	708990.84	76082.30	5987.98	BOW
CR18.10	708988.73	76087.91	5987.84	BOC
CR18.11	708988.95	76088.55	5987.36	FL
CR18.12	708987.84	76090.27	5987.43	EOP
CR18.13	709010.01	76088.24	5989.04	BOW
CR18.14	709008.53	76094.05	5988.83	BOC
CR18.15	709008.38	76094.63	5988.33	FL
CR18.16	709007.89	76096.57	5988.41	EOP
CR18.17	709029.80	76090.81	5990.29	BOW
CR18.18	709030.23	76096.83	5990.05	BOC
CR18.19	709030.28	76097.56	5989.56	FL
CR18.20	709030.43	76099.63	5989.65	EOP
CR18.21	709048.09	76084.52	5991.71	BOW
CR18.22	709051.38	76089.53	5991.54	BOC
CR18.23	709051.83	76090.22	5991.04	FL
CR18.24	709053.00	76091.99	5991.12	EOP
CR18.25	709062.79	76067.15	5993.63	BOW
CR18.26	709068.17	76070.03	5993.33	BOC
CR18.27	709068.73	76070.33	5992.91	FL
CR18.28	709070.48	76071.27	5992.99	EOP

All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/8/2022 File Name: 23327DES_Curb Ramp 08.dgn Horiz. Scale: 1:10 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.										Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	SIDEWALK AND BUS STOP DETAILS PINE RIDGE RD Designer: AF Structure Numbers: Detailer: AF Sheet Subset: CURB RAMP Subset Sheets: 8 of 11	Project No./Code NHPP 0931-033 23327 Sheet Number 59
	Date:	Comments	Init.															
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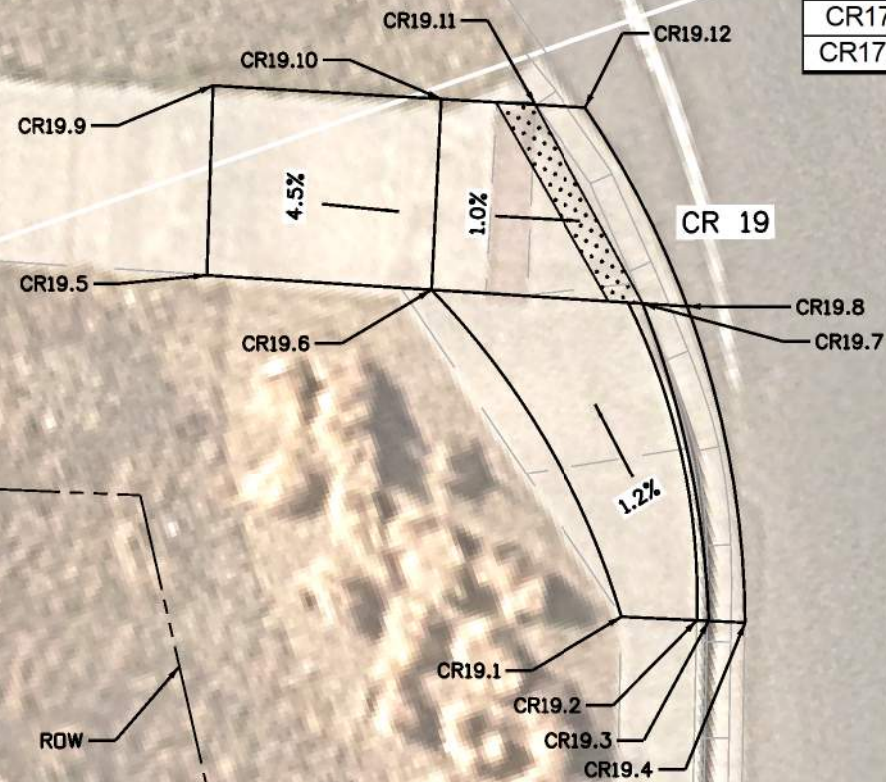
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CR 19				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR19.01	709017.62	76229.92	5989.98	TOR, ME
CR19.2	709021.27	76231.39	5990.03	BOC, ME
CR19.3	709021.8	76231.56	5989.66	FL, ME
CR19.4	709023.59	76232.32	5989.74	EOP, ME
CR19.5	709003.04	76205.99	5989.73	TOR
CR19.6	709013.84	76210.55	5990.3	TOL
CR19.7	709024.02	76214.84	5990.09	FL
CR19.8	709026.16	76215.74	5990.16	EOP
CR19.9	709006.58	76196.77	5989.68	TOR
CR19.10	709017.58	76201.33	5990.25	TOL
CR19.11	709022.05	76203.19	5990.26	FL
CR19.12	709024.55	76204.23	5990.33	EOP

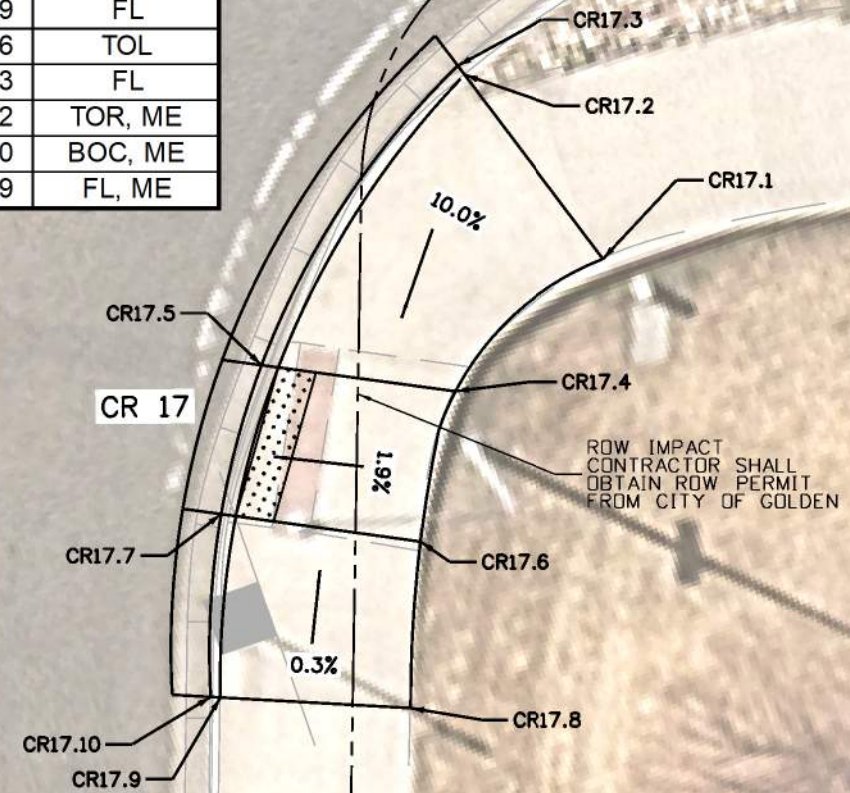
SH 93



CR 17				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR17.01	709091.06	76228.19	5992.33	TOR
CR17.2	709087.37	76216.75	5992.57	BOC, ME
CR17.3	709087.18	76216.19	5992.54	FL, ME
CR17.4	709081.50	76232.16	5991.08	TOL
CR17.5	709072.42	76227.56	5990.89	FL
CR17.6	709077.21	76238.95	5990.66	TOL
CR17.7	709067.91	76234.25	5990.43	FL
CR17.8	709073.87	76247.01	5990.62	TOR, ME
CR17.9	709064.69	76243.24	5990.50	BOC, ME
CR17.10	709064.23	76243.05	5990.09	FL, ME



PINE RIDGE RD



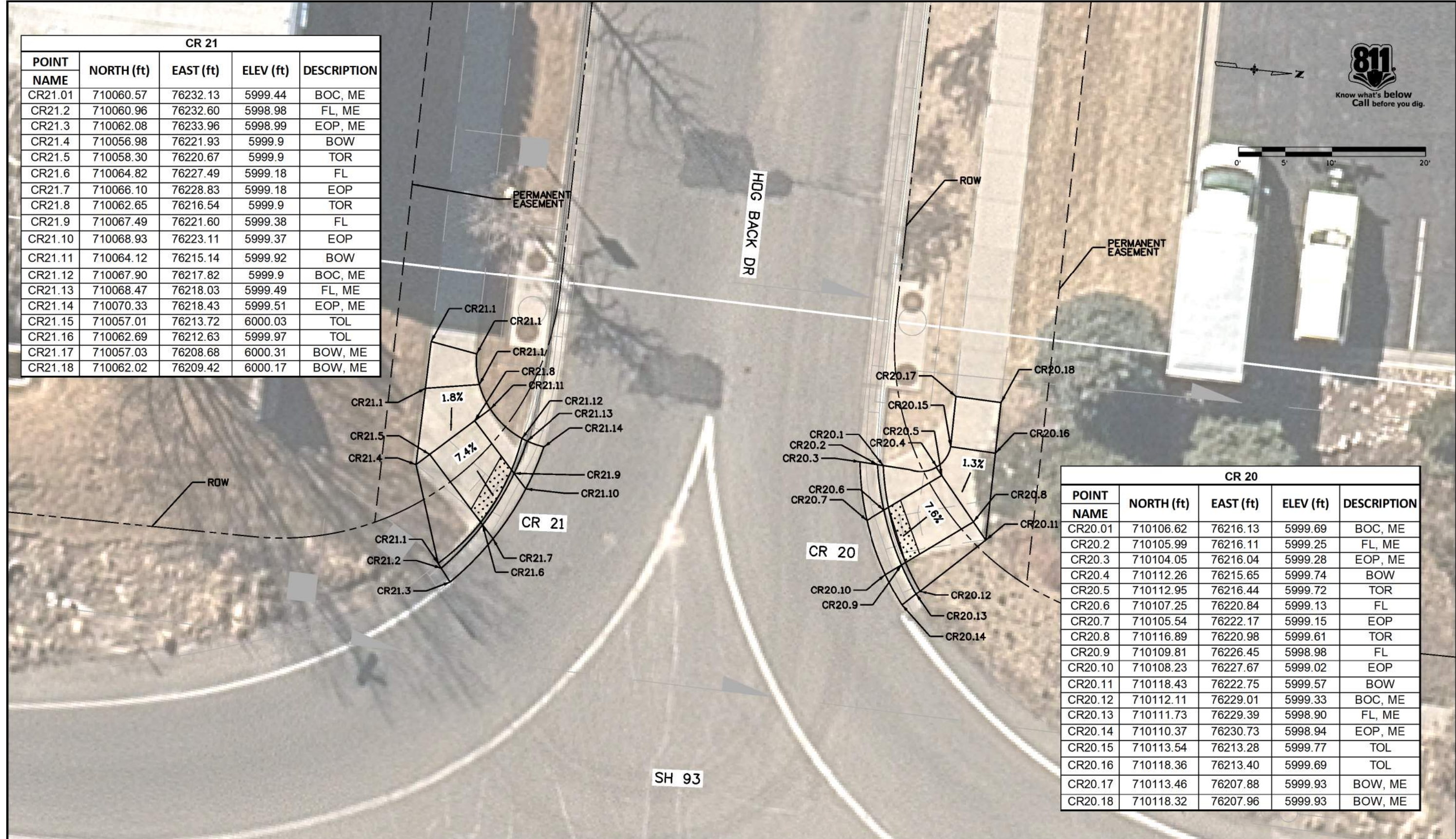
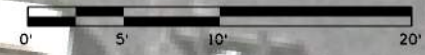
All seals for this set of drawings are applied to the cover page(s)	Print Date: 9/8/2022		Sheet Revisions			Colorado Department of Transportation Region 1	As Constructed		CURB RAMP DETAIL			Project No./Code
	File Name: 23327DES_Curb Ramp 09.dgn		Date:	Comments	Init.		No Revisions:	PINE RIDGE RD			NHPP 0931-033	
	Horiz. Scale: 1:10 Vert. Scale: As Noted						Revised:	Designer: AF	Structure Numbers:	23327		
							Void:	Sheet Subset: CURB RAMP		Subset Sheets: 9 of 11		Sheet Number 60

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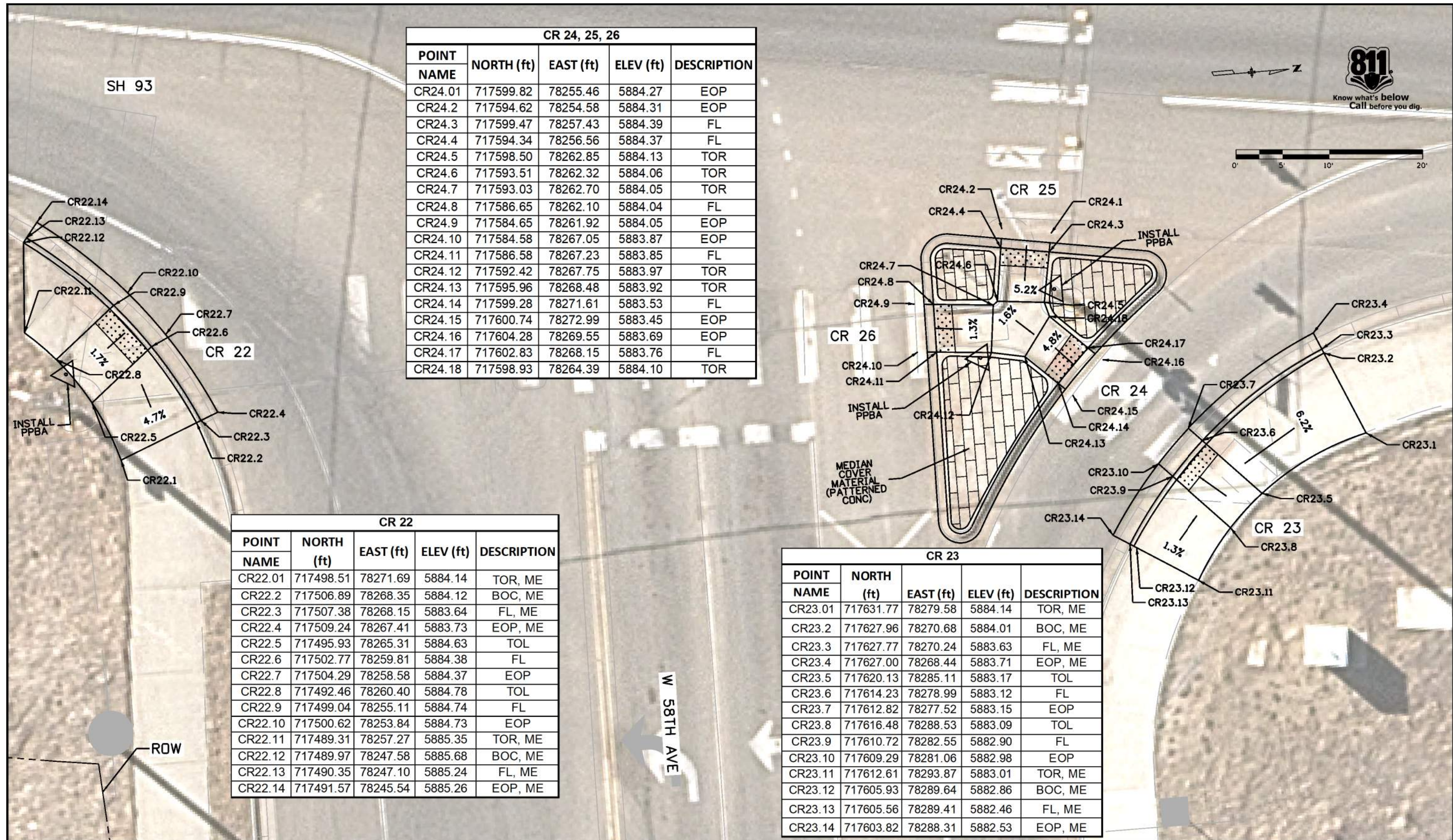
CR 21				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR21.01	710060.57	76232.13	5999.44	BOC, ME
CR21.02	710060.96	76232.60	5998.98	FL, ME
CR21.03	710062.08	76233.96	5998.99	EOP, ME
CR21.04	710056.98	76221.93	5999.9	BOW
CR21.05	710058.30	76220.67	5999.9	TOR
CR21.06	710064.82	76227.49	5999.18	FL
CR21.07	710066.10	76228.83	5999.18	EOP
CR21.08	710062.65	76216.54	5999.9	TOR
CR21.09	710067.49	76221.60	5999.38	FL
CR21.10	710068.93	76223.11	5999.37	EOP
CR21.11	710064.12	76215.14	5999.92	BOW
CR21.12	710067.90	76217.82	5999.9	BOC, ME
CR21.13	710068.47	76218.03	5999.49	FL, ME
CR21.14	710070.33	76218.43	5999.51	EOP, ME
CR21.15	710057.01	76213.72	6000.03	TOL
CR21.16	710062.69	76212.63	5999.97	TOL
CR21.17	710057.03	76208.68	6000.31	BOW, ME
CR21.18	710062.02	76209.42	6000.17	BOW, ME



CR 20				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR20.01	710106.62	76216.13	5999.69	BOC, ME
CR20.02	710105.99	76216.11	5999.25	FL, ME
CR20.03	710104.05	76216.04	5999.28	EOP, ME
CR20.04	710112.26	76215.65	5999.74	BOW
CR20.05	710112.95	76216.44	5999.72	TOR
CR20.06	710107.25	76220.84	5999.13	FL
CR20.07	710105.54	76222.17	5999.15	EOP
CR20.08	710116.89	76220.98	5999.61	TOR
CR20.09	710109.81	76226.45	5998.98	FL
CR20.10	710108.23	76227.67	5999.02	EOP
CR20.11	710118.43	76222.75	5999.57	BOW
CR20.12	710112.11	76229.01	5999.33	BOC, ME
CR20.13	710111.73	76229.39	5998.90	FL, ME
CR20.14	710110.37	76230.73	5998.94	EOP, ME
CR20.15	710113.54	76213.28	5999.77	TOL
CR20.16	710118.36	76213.40	5999.69	TOL
CR20.17	710113.46	76207.88	5999.93	BOW, ME
CR20.18	710118.32	76207.96	5999.93	BOW, ME

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	File Name: 23327DES-Curb Ramp 10.dgn		Date:	Comments	Init.		No Revisions:		HOG BACK DR			NHPP 0931-033
	Horiz. Scale: 1:10 Vert. Scale: As Noted						Revised:	Designer: AF	Structure Numbers			23327
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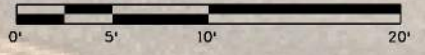
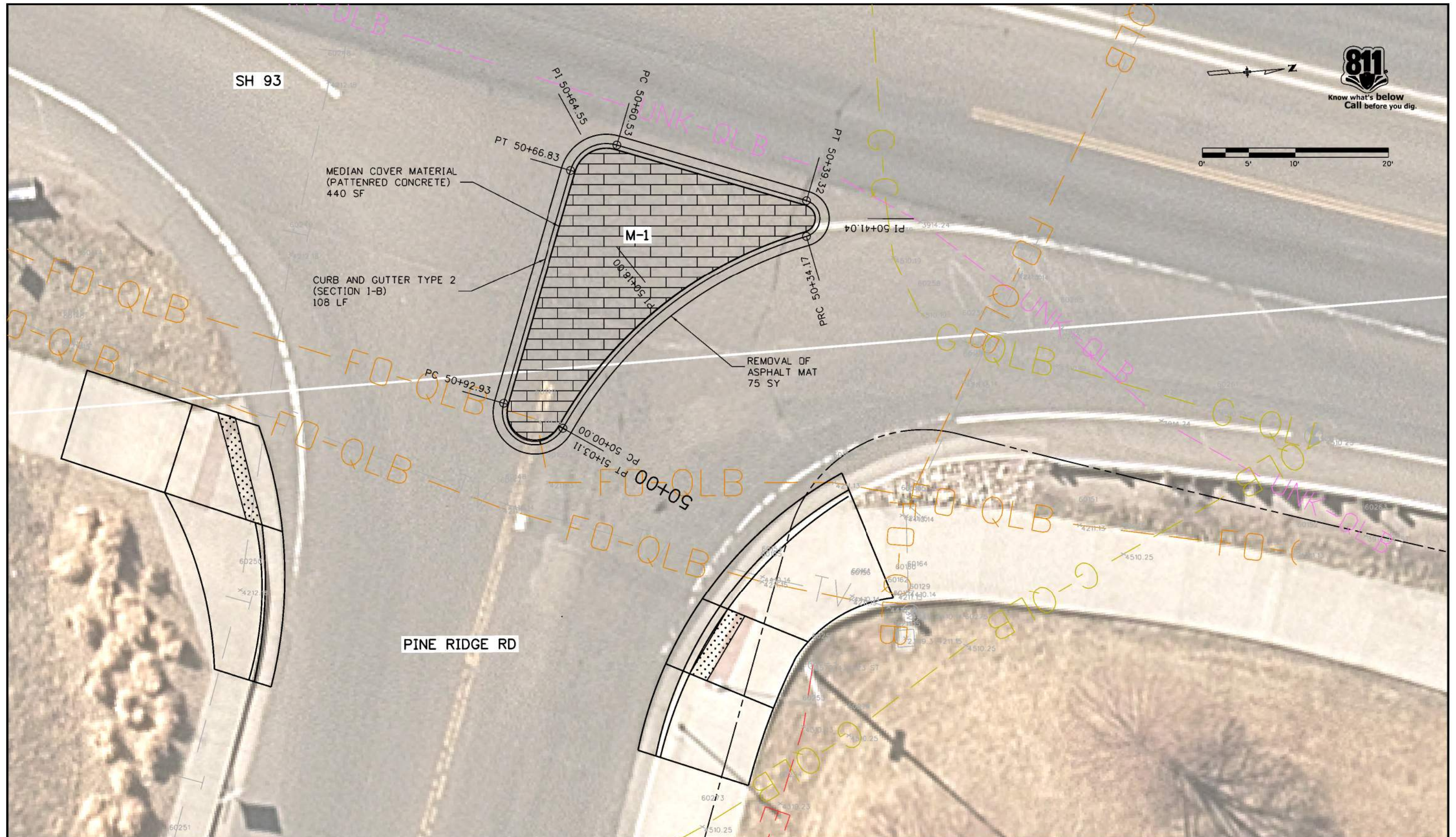
CR 24, 25, 26				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR24.01	717599.82	78255.46	5884.27	EOP
CR24.2	717594.62	78254.58	5884.31	EOP
CR24.3	717599.47	78257.43	5884.39	FL
CR24.4	717594.34	78256.56	5884.37	FL
CR24.5	717598.50	78262.85	5884.13	TOR
CR24.6	717593.51	78262.32	5884.06	TOR
CR24.7	717593.03	78262.70	5884.05	TOR
CR24.8	717586.65	78262.10	5884.04	FL
CR24.9	717584.65	78261.92	5884.05	EOP
CR24.10	717584.58	78267.05	5883.87	EOP
CR24.11	717586.58	78267.23	5883.85	FL
CR24.12	717592.42	78267.75	5883.97	TOR
CR24.13	717595.96	78268.48	5883.92	TOR
CR24.14	717599.28	78271.61	5883.53	FL
CR24.15	717600.74	78272.99	5883.45	EOP
CR24.16	717604.28	78269.55	5883.69	EOP
CR24.17	717602.83	78268.15	5883.76	FL
CR24.18	717598.93	78264.39	5884.10	TOR

CR 22				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR22.01	717498.51	78271.69	5884.14	TOR, ME
CR22.2	717506.89	78268.35	5884.12	BOC, ME
CR22.3	717507.38	78268.15	5883.64	FL, ME
CR22.4	717509.24	78267.41	5883.73	EOP, ME
CR22.5	717495.93	78265.31	5884.63	TOL
CR22.6	717502.77	78259.81	5884.38	FL
CR22.7	717504.29	78258.58	5884.37	EOP
CR22.8	717492.46	78260.40	5884.78	TOL
CR22.9	717499.04	78255.11	5884.74	FL
CR22.10	717500.62	78253.84	5884.73	EOP
CR22.11	717489.31	78257.27	5885.35	TOR, ME
CR22.12	717489.97	78247.58	5885.68	BOC, ME
CR22.13	717490.35	78247.10	5885.24	FL, ME
CR22.14	717491.57	78245.54	5885.26	EOP, ME

CR 23				
POINT NAME	NORTH (ft)	EAST (ft)	ELEV (ft)	DESCRIPTION
CR23.01	717631.77	78279.58	5884.14	TOR, ME
CR23.2	717627.96	78270.68	5884.01	BOC, ME
CR23.3	717627.77	78270.24	5883.63	FL, ME
CR23.4	717627.00	78268.44	5883.71	EOP, ME
CR23.5	717620.13	78285.11	5883.17	TOL
CR23.6	717614.23	78278.99	5883.12	FL
CR23.7	717612.82	78277.52	5883.15	EOP
CR23.8	717616.48	78288.53	5883.09	TOL
CR23.9	717610.72	78282.55	5882.90	FL
CR23.10	717609.29	78281.06	5882.98	EOP
CR23.11	717612.61	78293.87	5883.01	TOR, ME
CR23.12	717605.93	78289.64	5882.86	BOC, ME
CR23.13	717605.56	78289.41	5882.46	FL, ME
CR23.14	717603.82	78288.31	5882.53	EOP, ME

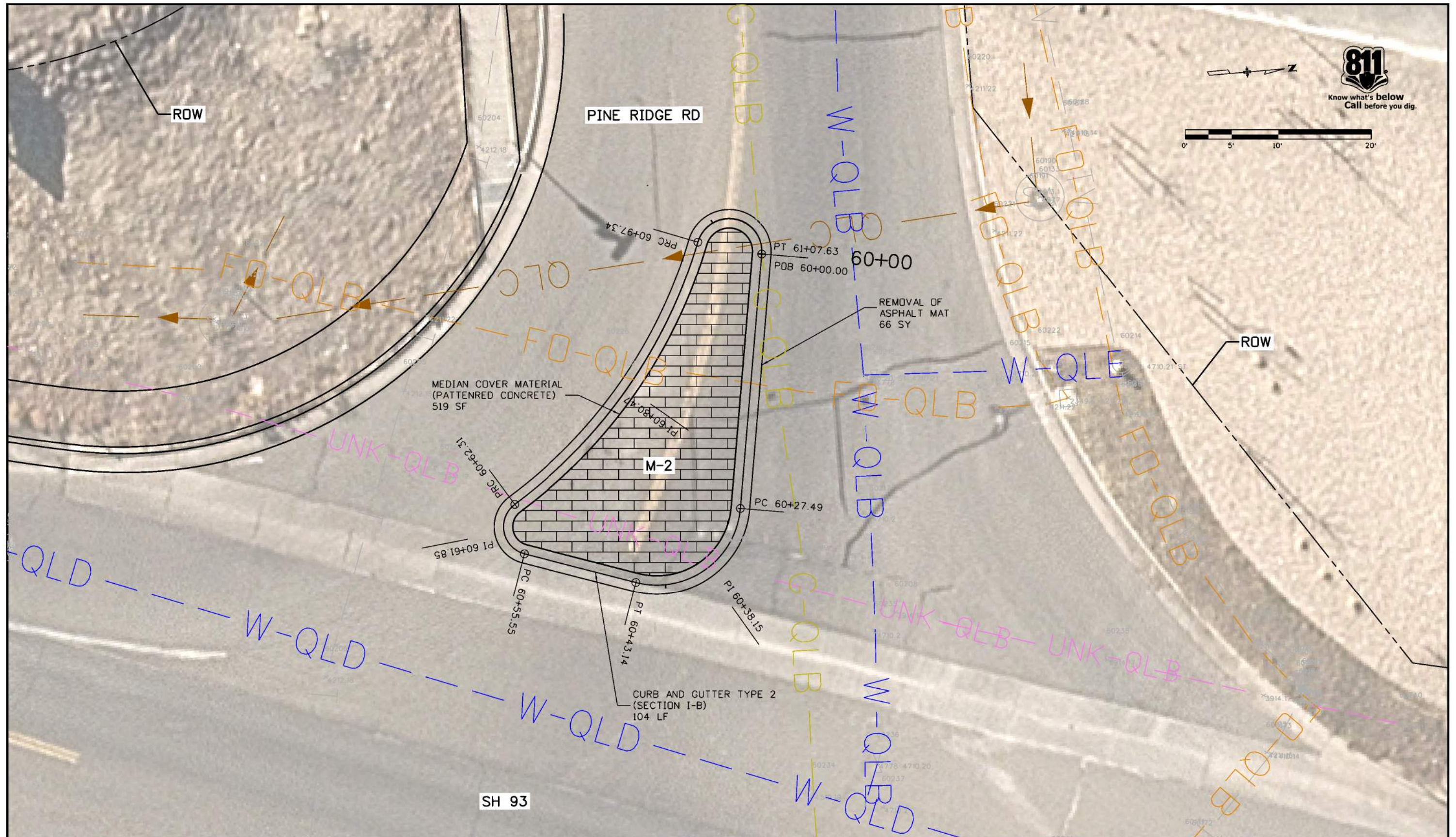
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 6/27/2022	0000 0000	Sheet Revisions			Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed		MEDIAN DETAILS			Project No./Code																	
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Alignment Name: East Pine Ridge Median				Station Northing Easting			
Element: Circular				Element: Circular			
PC	()	5000	709057.14 76207.11	PC	()	5060.53	709065.37 76177.19
PI	()	5018	709067.22 76192.19	PI	()	5064.55	709061.62 76175.74
CC	()		709093.61 76231.74	CC	()		709063.94 76180.92
PRC	()	5034.17	709084.85 76188.61	PT	()	5066.83	709060.20 76179.51
Radius:		44		Radius:		4	
Delta:		44°29'39.6	Right	Delta:		90°17'27.8	Left
Degree of Curvature:		130°13'03.65"		Degree of Curvature:		1432°23'40.16"	
Length:		34.169		Length:		6.304	
Tangent:		17.998		Tangent:		4.02	
Chord:		33.317		Chord:		5.671	
Middle Ordinate:		3.275		Middle Ordinate:		1.179	
External:		3.539		External:		1.671	
Tangent Direction:		N 55°58'02.47"	W	Tangent Direction:		S 21°00'09.75"	W
Radial Direction:		N 34°01'57.53"	E	Radial Direction:		N 68°59'50.25"	W
Chord Direction:		N 33°43'12.64"	W	Chord Direction:		S 24°08'34.15"	E
Radial Direction:		N 78°31'37.19"	E	Radial Direction:		S 20°42'41.95"	W
Tangent Direction:		N 11°28'22.81"	W	Tangent Direction:		S 69°17'18.05"	E
Element: Circular				Element: Linear			
PRC	()	5034.17	709084.85 76188.61	PT	()	5066.83	709060.20 76179.51
PI	()	5041.04	709091.58 76187.25	PC	()	5092.93	709050.97 76203.91
CC	()		709084.46 76186.65	Tangential Direction:		S 69°17'18.05"	E
PT	()	5039.32	709085.17 76184.79	Tangential Length:		26.095	
Radius:		2		Element: Circular			
Delta:		147°31'27.	Left	PC	()	5092.93	709050.97 76203.91
Degree of Curvature:		2864°47'20.31"		PI	()	5122.9	709040.37 76231.95
Length:		5.15		CC	()		709054.24 76205.15
Tangent:		6.867		PT	()	5103.11	709057.14 76207.11
Chord:		3.84		Radius:		3.5	
Middle Ordinate:		1.441		Delta:		166°40'44.	Left
External:		5.152		Degree of Curvature:		1637°01'20.18"	
Tangent Direction:		N 11°28'22.81"	W	Length:		10.182	
Radial Direction:		N 78°31'37.19"	E	Tangent:		29.972	
Chord Direction:		N 85°14'06.53"	W	Chord:		6.953	
Radial Direction:		N 68°59'50.25"	W	Middle Ordinate:		3.094	
Tangent Direction:		S 21°00'09.75"	W	External:		26.676	
Element: Linear				Tangent Direction:		S 69°17'18.05"	E
PT	()	5039.32	709085.17 76184.79	Radial Direction:		S 20°42'41.95"	W
PC	()	5060.53	709065.37 76177.19	Chord Direction:		N 27°22'19.74"	E
Tangential Direction:		S 21°00'09.75"	W	Radial Direction:		N 34°01'57.53"	E
Tangential Length:		21.21		Tangent Direction:		N 55°58'02.47"	W

Alignment Name: West Pine Rdige Median				Station Northing Easting			
Element: Linear				Element: Circular			
POB	()	6000	709093.39 76081.67	PRC	()	6062.31	709064.75 76106.39
PC	()	6027.49	709088.90 76108.79	PI	()	6080.47	709080.17 76096.80
Tangential Direction:		S 80°34'59.60"	E	CC	()		709036.25 76060.52
Tangential Length:		27.491		PRC	()	6097.34	709086.67 76079.84
Element: Circular				Radius:		54	
PC	()	6027.49	709088.90 76108.79	Delta:		37°10'37.5	Left
PI	()	6038.15	709087.15 76119.30	Degree of Curvature:		106°06'11.86"	
CC	()		709080.02 76107.32	Length:		35.039	
PT	()	6043.14	709077.08 76115.82	Tangent:		18.161	
Radius:		9		Chord:		34.427	
Delta:		99°38'37.9	Right	Middle Ordinate:		2.817	
Degree of Curvature:		636°37'11.18"		External:		2.972	
Length:		15.652		Tangent Direction:		N 31°51'36.21"	W
Tangent:		10.658		Radial Direction:		N 58°08'23.79"	E
Chord:		13.753		Chord Direction:		N 50°26'54.96"	W
Middle Ordinate:		3.194		Radial Direction:		N 20°57'46.28"	E
External:		4.95		Tangent Direction:		N 69°02'13.72"	W
Tangent Direction:		S 80°34'59.60"	E	Element: Circular			
Radial Direction:		S 9°25'00.40"	W	PRC	()	6097.34	709086.67 76079.84
Chord Direction:		S 30°45'40.62"	E	PI	()	6131.96	709099.06 76047.52
Radial Direction:		N 70°56'21.64"	W	CC	()		709089.94 76081.09
Tangent Direction:		S 19°03'38.36"	W	PT	()	6107.63	709093.39 76081.67
Element: Linear				Radius:		3.5	
PT	()	6043.14	709077.08 76115.82	Delta:		168°27'14.	Right
PC	()	6055.55	709065.35 76111.77	Degree of Curvature:		1637°01'20.18"	
Tangential Direction:		S 19°03'38.36"	W	Length:		10.29	
Tangential Length:		12.404		Tangent:		34.619	
Element: Circular				Chord:		6.964	
PC	()	6055.55	709065.35 76111.77	Middle Ordinate:		3.148	
PI	()	6061.85	709059.40 76109.71	External:		31.295	
CC	()		709066.33 76108.94	Tangent Direction:		N 69°02'13.72"	W
PRC	()	6062.31	709064.75 76106.39	Radial Direction:		N 20°57'46.28"	E
Radius:		3		Chord Direction:		N 15°11'23.34"	E
Delta:		129°04'45.	Right	Radial Direction:		S 9°25'00.41"	W
Degree of Curvature:		1909°51'33.54"		Tangent Direction:		S 80°34'59.59"	E
Length:		6.759					
Tangent:		6.301					
Chord:		5.417					
Middle Ordinate:		1.71					
External:		3.979					
Tangent Direction:		S 19°03'38.36"	W				
Radial Direction:		N 70°56'21.64"	W				
Chord Direction:		S 83°36'01.08"	W				
Radial Direction:		N 58°08'23.79"	E				
Tangent Direction:		N 31°51'36.21"	W				

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	File Name: 23327DES_Medians_Geo.dgn		Date:	Comments	Init.			Designer: AF	Structure Numbers		
	Horiz. Scale: 1:10 Vert. Scale: As Noted							Detailer: AF			
								Sheet Subset: MEDIAN	Subset Sheets: 3 of 3		

SWMP TEMPLATE (PLAN SHEETS) FOR PROJECTS WITH 1 ACRE OR MORE OF DISTURBANCE

1. SITE DESCRIPTION

The Contractor shall comply with all CDOT contractual requirements and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

- A. **PROJECT SITE LOCATION:** This project is located in Golden, CO and unincorporated Jefferson County. The project is on SH 93 from the US 6/ SH 58 intersection to 58th Ave.
- B. **PROJECT SITE DESCRIPTION:** This project will include the resurfacing of SH 93 with 2.5" of HMA. In addition, this project will include curb ramp upgrades and guardrail improvements, installation of a snow fence on the West side of SH 93, widening and acceleration lane addition at Washington Ave, addition of medians at Pine Ridge Rd., signal replacement at 58th Ave, ditch improvements at Spyderco Way, and repositioning caissons.
- C. **PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES:** Stabilize all areas that are not paved or landscaped through establishment of vegetation cover. The curb ramp upgrades, signal replacement, widening and acceleration lane, and guardrail improvements will occur first. The resurfacing of SH 93 will occur once other components have been completed.
- D. **ACRES OF DISTURBANCE:**
 - 1. Total area of construction site (LOC (PERMITTED AREA)): 36 acres
 - 2. Total area of proposed disturbance (LDA): 2.6 acres
 - 3. Total area of seeding: 2.0 acres
 - 4. Total area of pre-project impervious surface: 1,205,000 sq. ft.
 - 5. Total area of final impervious surface: 1,224,100 sq. ft.

E. **EXISTING SOIL DATA:** The majority of the soil in the area consists of gravelly sandy loam 3 to 15% slopes, clay loam 0 to 5% slopes, Argiustolls loamy 15 to 30% slopes, Argiustolls-Rock outcrop complex 15 to 60% slopes, and Yonder Variant-Midway complex 15 to 60% slopes.
Data Source(s): <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>

F. **EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:** During design, the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the permit.

Pre-Construction Date of survey: _____ Percent Existing Vegetative Cover: _____
Description of existing vegetation: _____
Method for determining percent vegetative cover: _____
Include a map or table showing transect locations, photos documenting pre-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

Post-Construction Date of survey: _____ Percent Vegetative Cover: _____
Description of vegetation: _____ **Date of CDPS-SCP Closure:** _____
The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.
Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

G. **POTENTIAL POLLUTANTS SOURCES:** Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance - with subsection 107.25.

- H. **RECEIVING WATER:**
 - 1. Outfall locations: The discharges outfall to Clear Creek, Van Bibber Creek, and Tucker Gulch. A portion of the project area is within the MS4 owned by the city of Golden.
 - 2. Names of immediate receiving water(s) on site: Clear Creek, Van Bibber Creek, Tucker Gulch, Cressmans Gulch
 - 3. Ultimate receiving water(s): Clear Creek, Van Bibber Creek

- 4. Description of all stream crossings located within the Construction Site Boundary: Clear Creek, Van Bibber Creek

Location	Stream Name	Description Of Any Disturbed Upland Areas
MP 0.0	Clear Creek	n/a
MP 3.1	Van Bibber Creek	n/a

I. **ALLOWABLE NON-STORMWATER DISCHARGES:**

Discharge Description	Site Map #	Method Statement (Location)
Uncontaminated Springs		
Concrete Washout Water (in-ground washout structure)#		
Landscape Irrigation Return Flows		
Discharges from Diversions of State Waters		
Emergency Fire Fighting		

#Concrete washout water associated with the washing of concrete tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent the water from leaving the site as surface runoff or reaching receiving waters.

J. **DESCRIPTION OF DRAINAGE PATTERNS FROM THE SITE:** The discharges outfall to Clear Creek, Van Bibber Creek, and Tucker Gulch. A portion of the project area is within the MS4 owned by the city of Golden.

K. **ALTERNATIVE DIVERSION CRITERIA:** When applicable, The Contractor is to provide a method statement based on data provided by the Hydraulic Engineer. The alternative diversion must be approved by CDPHE's Water Quality Control Division prior to implementation. The diversion method must be designate to minimize the discharge of pollutants and prevent the potential for pollution or degradation to state waters as a result of the diverted flow through the diversion structure. In addition, the alternative diversion method must minimize the discharge of pollutants throughout the installation, implementation and removal of the diversion.]

L. **ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:** [If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative schedule, and identify all the locations where the alternative schedule is applicable on the site map.]

2. SITE MAP COMPONENTS:

Pre-construction - See SWMP Maps unless otherwise specified

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:**
- B. **FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION:**
- C. **ALL AREAS OF GROUND SURFACE DISTURBANCE:**
- D. **AREAS OF CUT AND FILL:**
- E. **AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS** (field trailer, fueling, etc.) and **LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS:**
- F. **LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP:**
- G. **LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP:**
- 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:**

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I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY:

J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES:

K. LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY:

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.
<https://www.codot.gov/programs/environmental/landscape-architecture/207-and-212-pp-required-swmp-development-tools-1>

Name/Title	Contact Information	Certification #
Anastasia Farberov	Anastasia.farberov@state.co.us 720-497-6947	8490F626

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 Substantial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information
Susie Hagie, CDOT R1 Landscape Architect	303-757-9932, Susie.Hagie@state.co.us

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 have 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, see subsection 208.06. Materials handling 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

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

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

G. 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 207.03 and 212.05.

7. CONTROL MEASURE MAINTENANCE

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

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:

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COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Western Wheatgrass	Pascopyrum virgatum 'Dacothah'	4
Slender Wheatgrass	Elymus trachycaulus 'First Strike'	3
Little bluestem	Schizachyrium scoparium	1.25
Canada wildrye	Elymus canadensis	1.25
Indian ricegrass	Achnatherum hymenoides	1
Mountain brome	Bromus marginatus	2
Blue grama	Bouteloua gracilis	0.25
Blackeyed Susan	Rudbeckia hirta	0.15
Sulfur flower	Eriogonum umbellatum	1.25
Blue flax	Linum lewisii	0.8
Oats	Avena sativa	3
Total		17.95

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.

SEEDING METHOD (subsection 212.05)	ACRE
Seeding (Native) Drill, CDOT Pay Item 212-00706	0.4
Seeding (Native) Hydraulic, CDOT Pay Item 212-00707	1.5
Seeding (Wetland) Drill, CDOT Pay Item 212-00709	0.1
TOTAL	2.0

C. **SOIL STABILIZATION METHODS:** Minimum soil stabilization methods (attached mulch) for all disturbances to receive seeding.

- Apply certified weed free hay or certified weed free straw and mechanically crimp into the soil in combination with natural mulch tackifier in accordance with Section 213.
- Apply Spray-on Mulch Blanket hydraulically in accordance with Section 213.

D. **SPECIAL REQUIREMENTS:**

- 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.
- Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
- 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.

0.4 Total Acres of Seeding (Native) Drill

Seeding (Native) Drill Pay Item 212-00706	Pay Item	Description	Amount/Acre	Units	Total For This Method
	212-00701	Compost (Mechanically Applied)	65	CY/acre	26
	212-00703	Humate	200	Pounds/acre	80
	212-00704	Mycorrhizae	8	Pounds/acre	3.2

1.5 Total Acres of Seeding (Native) Hydraulic 6

Seeding (Native) Hydraulic	Pay Item	Description	Amount/Acre	Units	Total For This Method
	212-00702	Biotic Soil Amendments (Hydraulic Applied)	3500	Pounds/acre	5250

Pay Item	212-00703	Humate	200	Pounds/acre	300
212-00707	212-00704	Mycorrhizae	20	Pounds/acre	30

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 partial acceptance.

- All seeded areas shall be reviewed during the 7 day inspections 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.
- The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas until Partial Acceptance of the stormwater construction work.

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

10. PRIOR TO PROJECT FINAL ACCEPTANCE

- When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
- All storm drains shall be cleaned prior to the Final Acceptance of the project. If required, include work in 202-04010 Clean Inlet.
- Refer to specification 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

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						Void:					

11. NARRATIVES

Control Measure Matrixes During Construction:

- 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).
- The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
- 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.			B or X	X	
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 or X	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 or X	X	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		B or X		
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 or X	X	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		B or X	X	X
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			X	
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		B or X	X	
SEDIMENT CONTROL/ 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	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		X	X	
EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN OUTLET PROTECTION Riprap, or approved other	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope. Material placed as an energy dissipater to prevent erosion at outlet structure.	M-208			X	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	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		B or X	X	

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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				X	X	
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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 Fence (plastic)	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.			X	X	X
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		X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Windrow or 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		X	X	X
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
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.				X	
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	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				X	X
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	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				X
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

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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 20 hours of blading (140-250 horsepower), 20 hours of dozing (130-250 horsepower) and 20 hours 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 Blading, 203 Dozing and 203 Combination Loader.

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const	Interim Const.	Permanent Stabilization	*Total Quantity
X	202-04002	Clean Culvert	Each		2		2
X	202-04010	Clean Inlet	Each		12		12
	203-01500	Blading	Hour	10	10		20
	203-01550	Dozing	Hour	10	10		20
	203-01594	Combination Loader	Hour	10	10		20
	207-00310	Stockpile Wetland Topsoil	CY		50		50
	207-00700	Topsoil (Onsite)	CY			716	716
	207-00702	Topsoil (Offsite)	CY			355	355
	207-00703	Topsoil (Wetland)	CY		50		50
	207-00704	Subgrade Soil Preparation	SY		7580		7580
	208-00002	Erosion Log Type 1 (12 inch)	LF	600	200		800
	208-00013	Erosion Log Type 1 (20 inch)	LF	200	200		400
	208-00035	Aggregate Bag	LF	200	100		300
	208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	Each	2			2
	208-00053	Storm Drain Inlet Protection (Type I)(84 Inch)	Each	9			9
	208-00054	Storm Drain Inlet Protection (Type II)	Each	3			3
	208-00070	Vehicle Tracking Pad	Each	2			2
	208-00103	Removal and Disposal of Sediment (Labor)	Hour	20	20		40
	208-00105	Removal and Disposal of Sediment (Equipment)	Hour	20	20		40
	208-00106	Sweeping (Sediment Removal)	Hour	20	20		40
	208-00107	Removal of Trash	Hour	10	10		20
	208-00207	Erosion Control Management (ECM)	Day				80
	212-00701	Compost (Mechanically Applied)-	CY			26	26
	212-00702	Biotic Soil Amendments (Hydraulic Applied)	Pounds			5250	5250
	212-00703	Humate	Pounds			380	380
	212-00704	Mycorrhizae	Pounds			33.2	33.2
	212-00706	Seeding (Native) Drill	Acre			0.4	0.4

	212-00707	Seeding (Native) Hydraulic	Acre			1.5	1.5
	212-00709	Seeding (Wetland) Drill	Acre			0.1	0.1
	213-00004	Mulching (Weed Free Straw)	Acre			0.4	0.4
	213-00012	Spray-on Mulch Blanket	Acre			1.5	1.5
	213-00061	Mulch Tackifier	LB			400	400
W	214-00008	Extended Landscape Preservation	LS			1	1
	214-01420	(SNC #1) Nursery Stock Container	EACH			79	79
	216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY		1500		1500
	217-00020	Herbicide Treatment	Hour		40		40
	607-11525	Fence (Plastic)	LF		800		800
X	700-70380	F/A Erosion Control	FA		1		1
X	700-70035	F/A Landscaping	FA		1		1

*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.
 *** F/A refers to CDOT's Force Account Pay Items.

13. BIOLOGICAL IMPACTS and DEWATERING

A. ENVIRONMENTAL IMPACTS:

- 1. Wetland Impacts: YES
- 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.

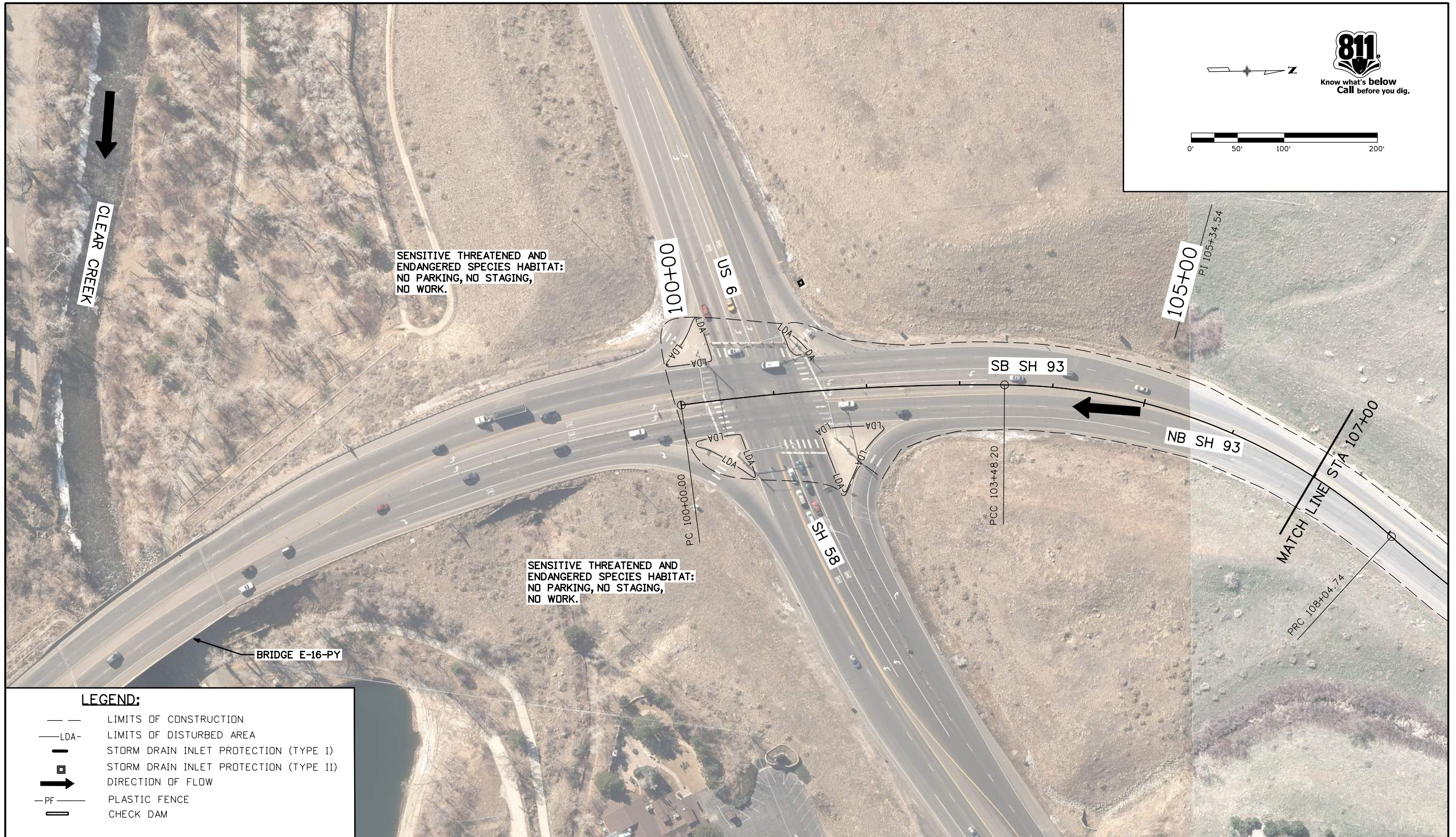
14. NOTES

- A. If erosion from fence removal/installation becomes an issue, add erosion logs on the downhill side of the construction if permanent stabilization is not appropriate.

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				Region 1		JDS												

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LEGEND:

---	LIMITS OF CONSTRUCTION
—LDA—	LIMITS OF DISTURBED AREA
— —	STORM DRAIN INLET PROTECTION (TYPE I)
—■—	STORM DRAIN INLET PROTECTION (TYPE II)
→	DIRECTION OF FLOW
—PF—	PLASTIC FENCE
▭	CHECK DAM

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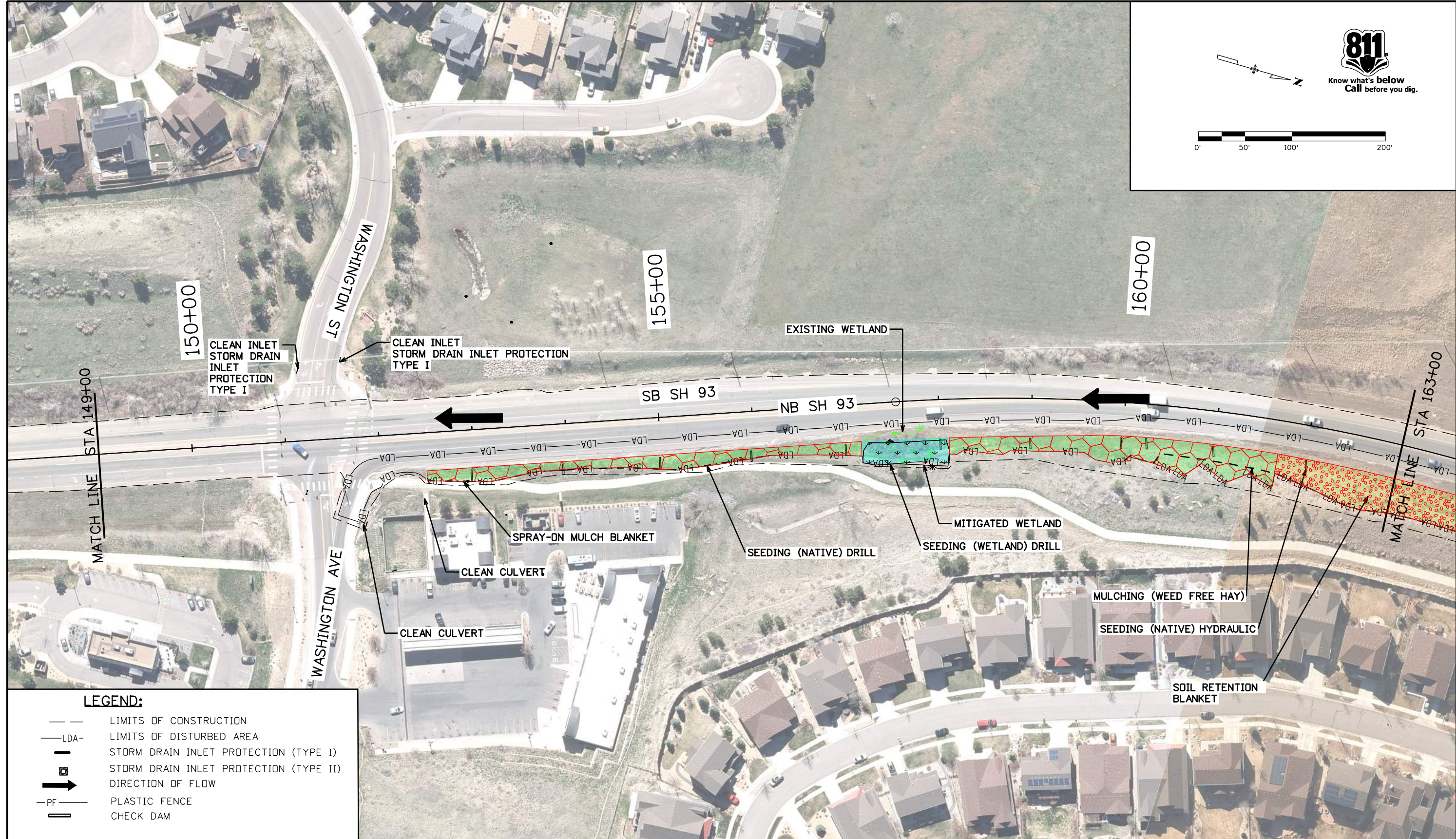
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- — LIMITS OF CONSTRUCTION
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- — — STORM DRAIN INLET PROTECTION (TYPE I)
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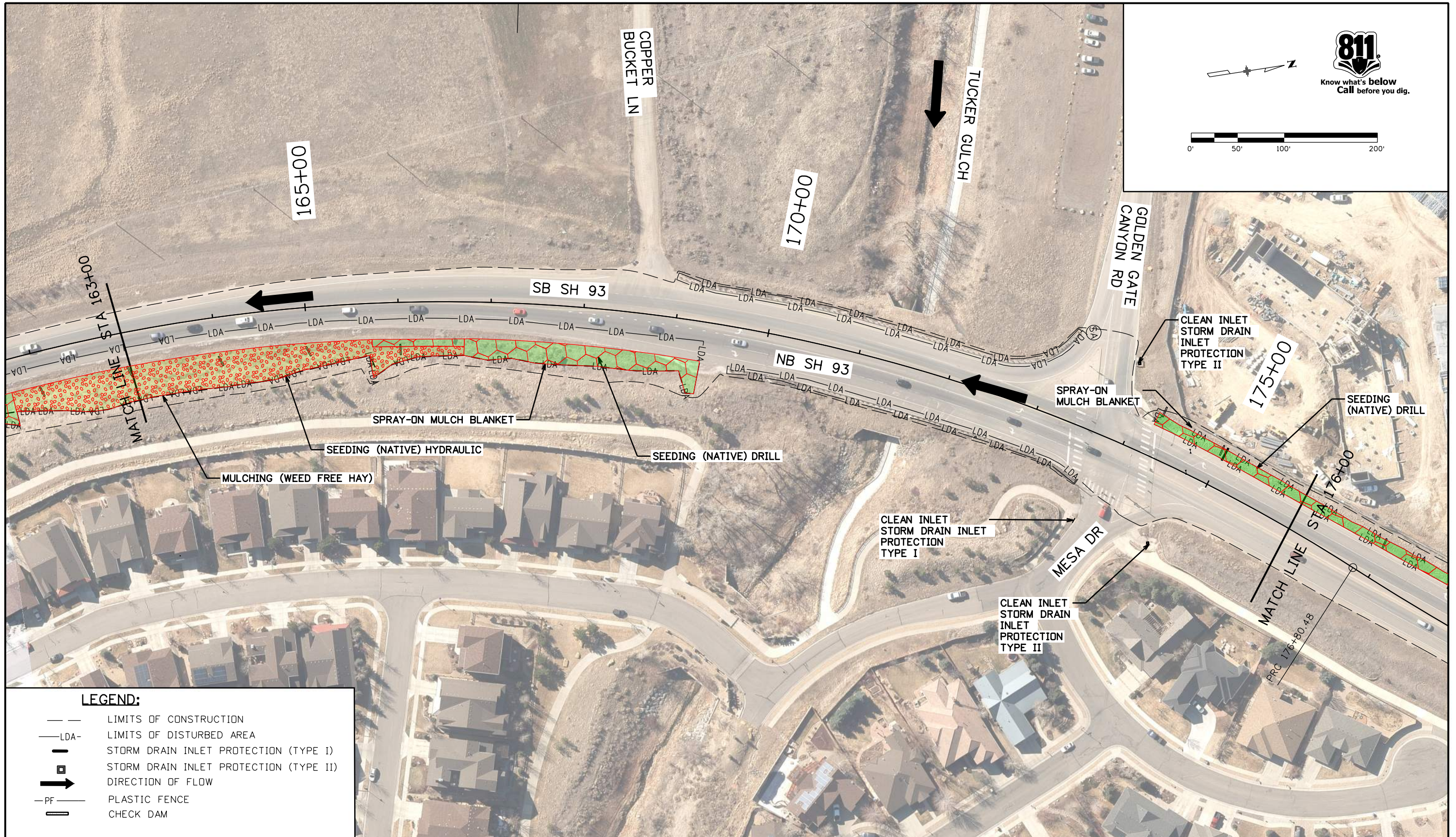


LEGEND:

- LIMITS OF CONSTRUCTION
- LDA- LIMITS OF DISTURBED AREA
- STORM DRAIN INLET PROTECTION (TYPE I)
- STORM DRAIN INLET PROTECTION (TYPE II)
- DIRECTION OF FLOW
- PF- PLASTIC FENCE
- ▬ CHECK DAM

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LEGEND:

- — LIMITS OF CONSTRUCTION
- LDA — LIMITS OF DISTURBED AREA
- — — STORM DRAIN INLET PROTECTION (TYPE I)
- — — STORM DRAIN INLET PROTECTION (TYPE II)
- — — DIRECTION OF FLOW
- PF — PLASTIC FENCE
- — — CHECK DAM

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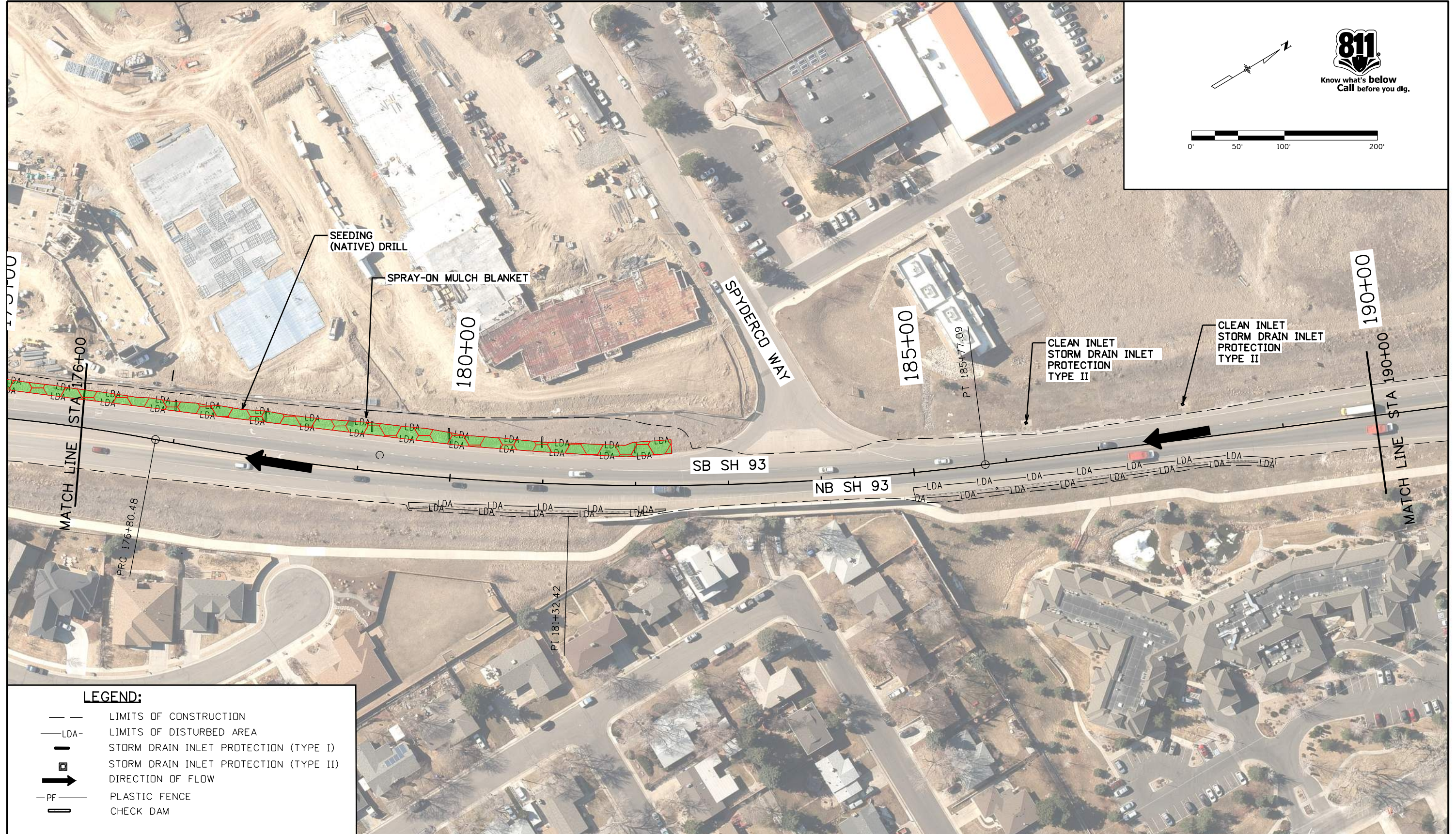
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- — LIMITS OF CONSTRUCTION
- LDA — LIMITS OF DISTURBED AREA
- I — STORM DRAIN INLET PROTECTION (TYPE I)
- II — STORM DRAIN INLET PROTECTION (TYPE II)
- DIRECTION OF FLOW
- PF — PLASTIC FENCE
- — CHECK DAM

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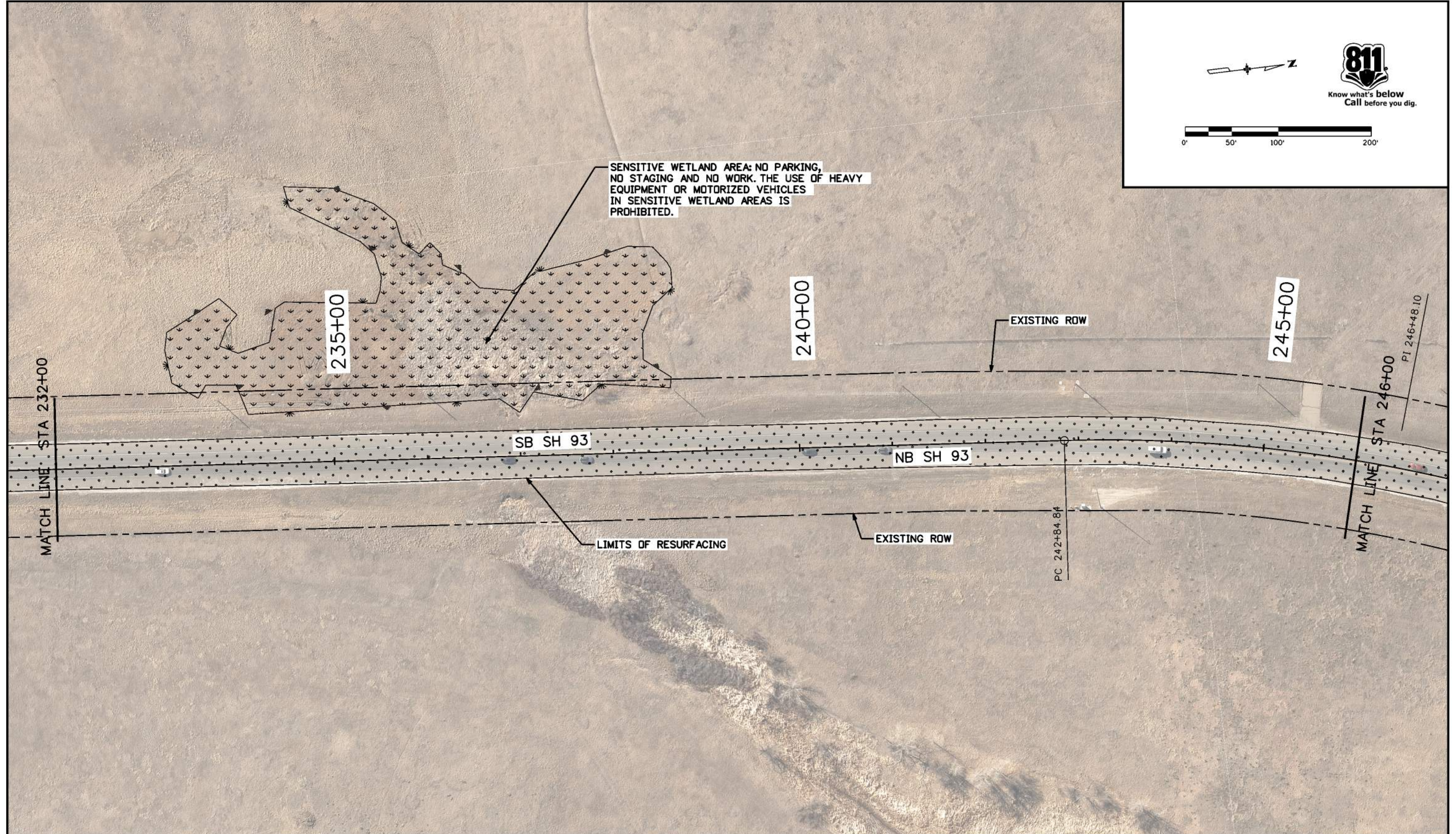
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---	LIMITS OF CONSTRUCTION
-LDA-	LIMITS OF DISTURBED AREA
	STORM DRAIN INLET PROTECTION (TYPE I)
	STORM DRAIN INLET PROTECTION (TYPE II)
→	DIRECTION OF FLOW
-PF-	PLASTIC FENCE
	CHECK DAM

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LEGEND:

- LIMITS OF CONSTRUCTION
- LDA- LIMITS OF DISTURBED AREA
- ▬ STORM DRAIN INLET PROTECTION (TYPE I)
- ▬ STORM DRAIN INLET PROTECTION (TYPE II)
- ➔ DIRECTION OF FLOW
- PF- PLASTIC FENCE
- ▬ CHECK DAM

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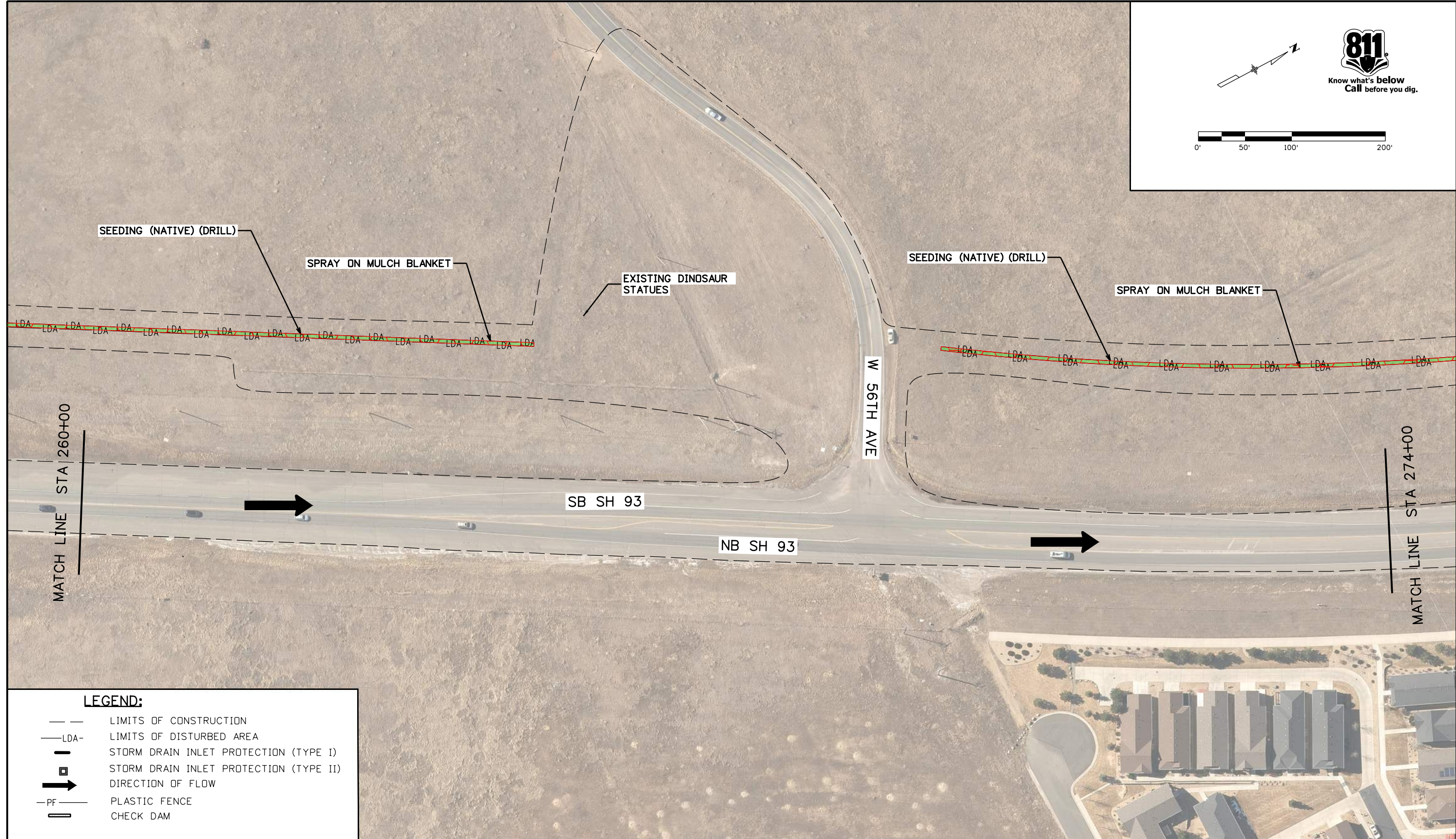
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STA 246+00 TO 260+00			
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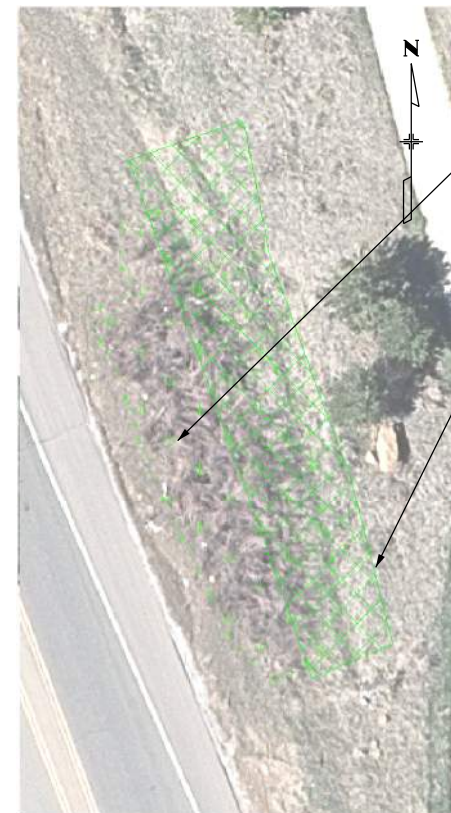
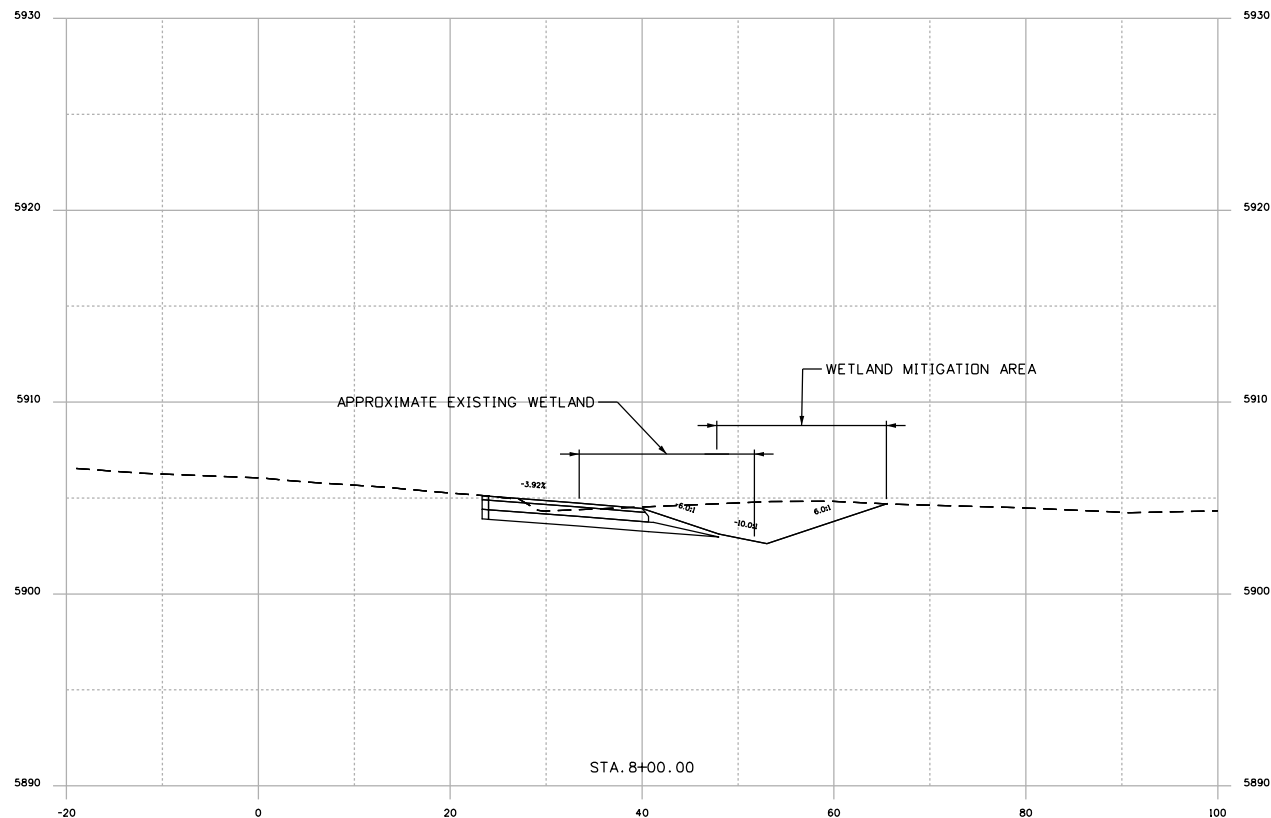


LEGEND:

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- |— STORM DRAIN INLET PROTECTION (TYPE I)
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EXISTING WETLAND (APPROX 1250 SF)

APPROX AREA OF NEW WETLAND (APPROX 1250 SF)

Wetland Seed Mix				
Species Scientific Name	Species Common Name	Wetland Status	% of Mix	Lbs/ac. (PLS)
<i>Asclepias incarnata</i>	Swamp milkweed	FACW	2	0.8
<i>Eleocharis palustris</i>	Creeping spikerush	OBL	15	0.6
<i>Glyceria striata</i>	Fowl mannagrass	FACW	15	0.5
<i>Juncus arcticus</i>	Arctic rush	FACW	15	0.15
<i>Panicum virgatum</i>	Switchgrass	FAC	10	2.0
<i>Schoenoplectus pungens</i>	Common threesquare	OBL	10	1.6
<i>Schoenoplectus tabernaemontani</i>	Softstem bulrush	OBL	10	0.6
<i>Spartina pectinata</i>	Prairie cordgrass	FACW	15	4.2
<i>Sporobolus airoides</i>	Alkali sacaton	FAC	5	0.1
<i>Verbena hastata</i>	Swamp verbena	FACW	3	0.1
Total PLS/Acre			100	10.65

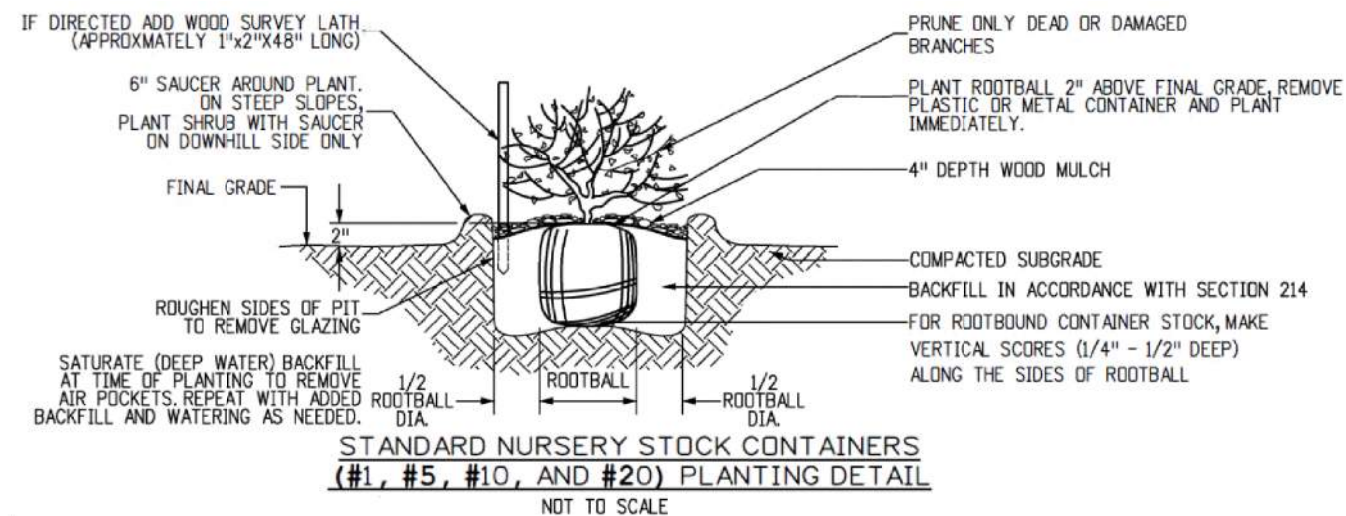
* PLS = Pure Live Seed - If broadcast seeding, double the rate

NOTES

WETLAND TYPICAL SECTION

WETLANDS MITIGATION LOCATION (N.T.S.)

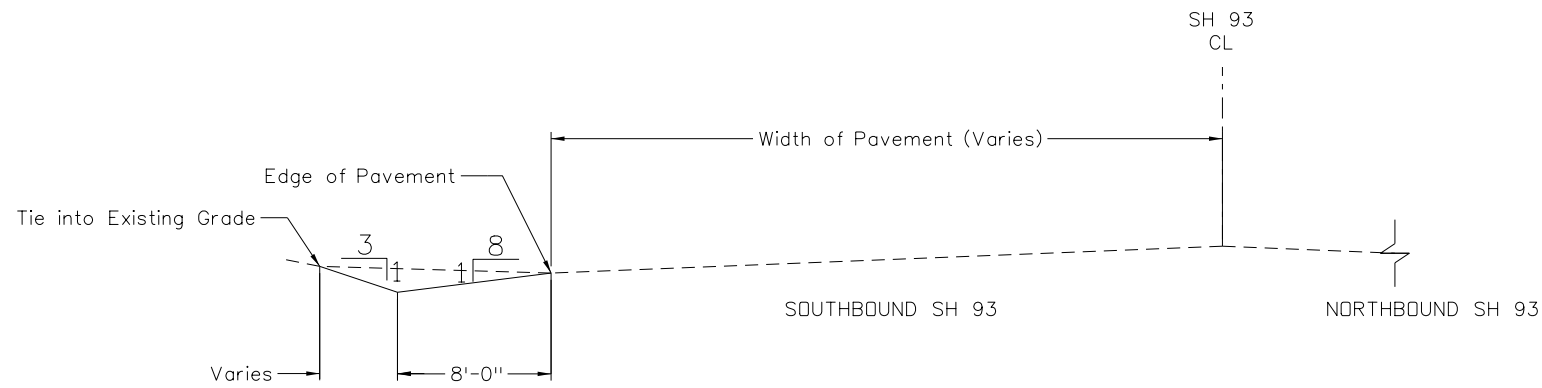
1. THE EXISTING TOPSOIL FROM THE EXISTING WETLAND SHALL BE SALVAGED AND TRANSFERRED TO THE NEW MITIGATION SITE.
2. TO MINIMIZE IMPACTS TO THE EXISTING WETLAND, THE PROJECT SHALL INSTALL TEMPORARY FENCING AND SILT FENCE ALONG ANY AREAS OF THE WETLAND TO BE PRESERVED.
3. AREAS TEMPORARILY IMPACTED BY THE PROJECT SHALL BE RESEEDED WITH A WETLAND SEED MIX. WOODY PLANTINGS, INCLUDING WILLOWS, SHALL BE INCORPORATED IN THE PLAN SET TO REPLACE THE EXISTING COYOTE WILLOW (*SALIX EXIGUA*) TO BE IMPACTED. CONTAINERIZED WILLOW PLANTINGS SHALL BE SPACED AT 4 FEET ON THE CENTER.
4. SALVAGE 12" OF WETLAND TOPSOIL FROM EXISTING WETLANDS AND PLACE IN WETLAND MITIGATION AREA. THE SLOPE SHALL BE LESS THAN THAT OF THE DITCH TO CAPTURE SURFACE WATER FLOW IN THE MITIGATION AREA AND ALLOW FOR SATURATED (WET) SOIL THROUGHOUT THE MITIGATION AREA. THE BOTTOM OF THE WETLAND SHALL BE ROUGHENED WITH MICROTOPOGRAPHY PRIOR TO SEEDING/PLANTING.
5. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF GOLDEN TO WORK IN THEIR ROW.
6. THE WETLAND MITIGATION SITE SHALL BE LOCATED ALONG THE FLOW PATH OF THE PROPOSED DITCH. THE GROUND ELEVATION OF THE WETLAND MITIGATION SITE SHALL GENERALLY MATCH THE GROUND ELEVATION OF THE EXISTING WETLAND.
7. PRIOR TO FINAL PLANTING, THE CDOT R1 BIOLOGIST, CONNI DAVIDSON SHALL BE CONTACTED AT CONNI.DAVIDSON@STATE.CO.US OR 303-512-4031 TO VERIFY THE WETLAND MITIGATION ELEVATION AND FINAL PLANTING LOCATIONS.



Wetland Tabulation			
Pay Item	Description	Pay Unit	Quantity
207-00310	Stockpile Wetland Topsoil	CY	50
207-00703	Topsoil (Wetland)	CY	50
212-00709	Seeding (Wetland) Drill	ACRE	0.1
214-01420	(SNC #1) Nursery Stock Container	EACH	79

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	File Name: 23327DES_Wetland.dgn	Date:	Comments	Init.			No Revisions:				
	Horiz. Scale: 1:100 Vert. Scale: As Noted						Revised:	Designer: AM	Structure Numbers		23327
							Void:	Detailer: AM	Sheet Subset: WETLANDS		Subset Sheets: 01 of 01
Sheet Number 86											

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ROADSIDE DITCH

STA 174+10.20 LT TO STA 182+82.32 LT
SCALE 1" = 10'

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**Horizontal & Vertical Datum Per CDOT Plans
(STA MP 0.0 TO 3.5 CODE SA 23327)**

Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N07°57'06.30"E, a distance of 8841.83 feet from ControlPoint 9300 to ControlPoint 9316. Both monuments are CDOT Type 5S, marked appropriately for their milepost location and controlposition. The survey data was obtained from a GlobalPositioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN).

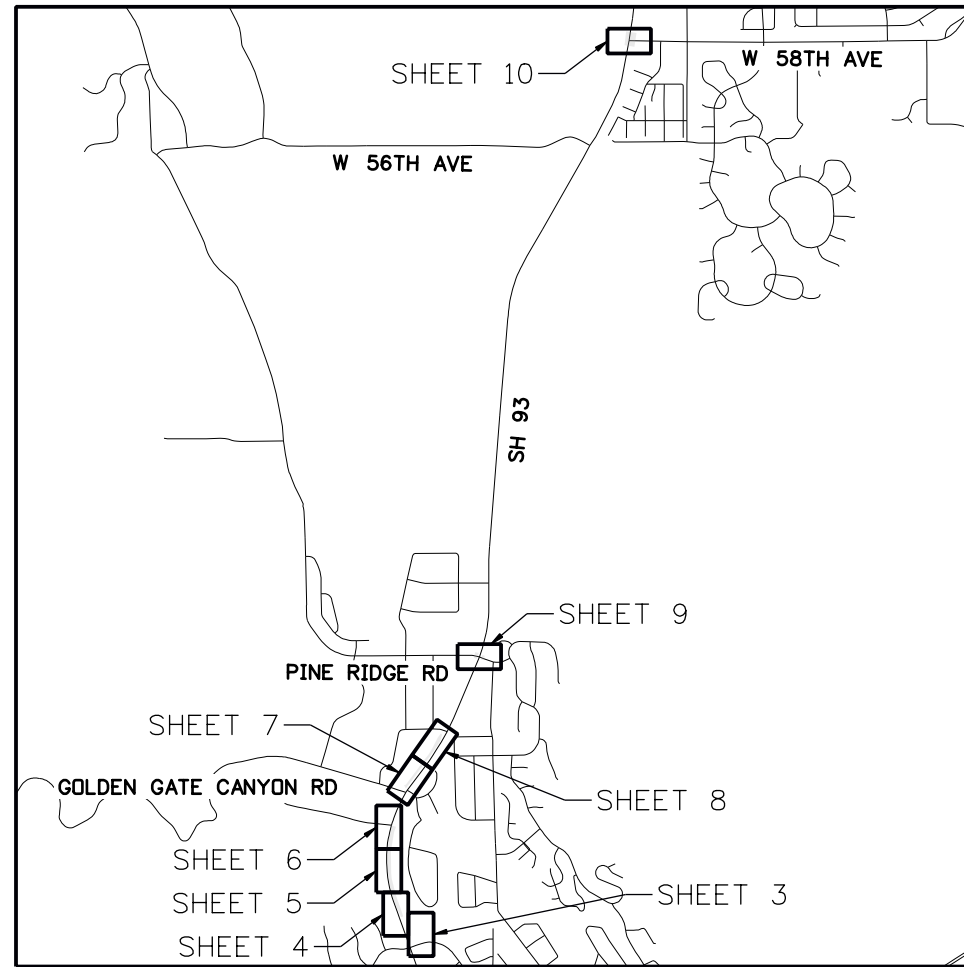
COORDINATE DATUM: Project coordinates are modified Colorado State Plan CentralZone NAD '83(11) coordinates. The reciprocal of the combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.000263. The resulting project coordinates are truncated by 1,000,000usft in the Northing and 3,000,000usft in the Easting after converting from state plane coordinates to project coordinates. The CHARN is based on the NAD '83(11) datum.

Project Coordinates Northing US Survey Feet = State Plane Coordinate Northing * 1.00263 * (3937/1200) - 1,000,000.
Project Coordinates Easting US Survey Feet = State Plane Coordinate Easting * 1.000263 * (3937/1200) - 3,000,000.

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. NHPP 0931-033 STATE HIGHWAY NO. 93 JEFFERSON COUNTY CONSTRUCTION PROJECT CODE NO. SA 23327

SHEET NO.	INDEX OF SHEETS
1	(1) Title Sheet
2	(1) General Notes
3-10	(7) Plan Sheet
11	(1) Test Hole Sheet
(11) Total Sheets	



PROJECT LOCATION MAP
0mi 0.25mi 0.50mi 1.00mi
Lineal Units = U.S. Mile

UNDERGROUND UTILITY INVESTIGATION AND DEPICTIONS CERTIFICATION

I, TIMOTHY P. SULLIVAN, THE ENGINEER'S SEAL HEREON CERTIFIES THAT SUBSURFACE UTILITY DATA WAS COLLECTED AND DEPICTED IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38-02, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

PE No. 29225

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Print Date: 11/24/2021		Sheet Revisions			Colorado Department of Transportation		As Constructed		SH 93 IMPROVEMENTS		Project No./Code		
File Name: 56548_SUE_Sheet 01_Title_Sheet.dgn		Date:	Comments	Init.		425 A CORPORATE CIRCLE GOLDEN, CO 80401 Phone: 720-497-6959 Fax: 720-497-6951	No Revisions:		SUBSURFACE UTILITY INVESTIGATION		NHPP 0931-033		
Horiz. Scale: 1:12 Vert. Scale: As Noted							Revised:		Designer: T. SULLIVAN	Structure	-		SA 23327
				Void:			Detailer: K. NABB	Numbers	-		Sheet Number 88		
555 ZANG ST, SUITE 210 DENVER, COLORADO 80228 PH: 303-988-5852 FAX: 303-988-2195					Region 1		Sheet Subset: SUE UTIL.	Subset Sheets: 001 of 011					

GENERAL NOTES:

PURPOSE: TO SEARCH, INTERPRET, AND DEPICT SPECIFIC EXISTING UNDERGROUND UTILITIES AS PER THE SCOPE OF WORK NEGOTIATED BETWEEN SAM AND THE CLIENT, WITHIN CLIENT SPECIFIC CORRIDORS.

THE SUBSURFACE UTILITIES SHOWN ON THE SUBSURFACE UTILITY INVESTIGATION WERE IDENTIFIED USING APPROPRIATE INDUSTRY STANDARD DETECTION METHODOLOGIES IN ACCORDANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. QUALITY LEVELS AND DEFINITIONS PER CI/ASCE STANDARD NO. 38-02

- QUALITY LEVEL "D" - QL-D - DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED. UTILITIES WITH A QL-D LABEL ARE DEPICTED ON THE PLANS USING PROFESSIONAL JUDGMENT IN INTERPRETING THIRD-PARTY RECORDS OR OTHER INFORMATION.
- QUALITY LEVEL "C" - QL-C - EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN THE DEPICTING OF THE UTILITIES SHOWN ON THE RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED. UTILITIES WITH A QL-C LABEL ARE DEPICTED ON THE PLANS USING PROFESSIONAL JUDGMENT IN INTERPRETING AND CORRELATING THE SURVEYED UTILITY APPURTENANCES, THIRD-PARTY RECORDS INFORMATION.
- QUALITY LEVEL "B" - QL-B - INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. UTILITIES WITH A QL-B LABEL ARE DEPICTED ON THE PLANS USING PROFESSIONAL JUDGMENT IN SELECTING AND INTERPRETING APPROPRIATE GEOPHYSICAL DATA, SURVEYING TO APPROPRIATE PROJECT ACCURACIES, AND USING PROFESSIONAL JUDGMENT TO CORRELATE THIRD-PARTY RECORDS OR OTHER INFORMATION, IF AVAILABLE, TO THESE QL-B DEPICTIONS.
- QUALITY LEVEL "A" - QL-A - OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NON-DESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO UTILITY LINE. UNLESS OTHERWISE NOTED, ALL SIZES OF QL-A PIPES AND CONDUITS WILL BE PROVIDED AS OUTER DIAMETER (O.D.) RATHER THAN NOMINAL SIZE OR INSIDE DIAMETER.
- RELIANCE UPON THIS 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.
- IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.
- EDGES OF DUCT BANK SHOWN ARE APPARENT BASED ON INTERPRETATION OF ELECTROMAGNETIC READINGS. ACTUAL DUCT BANK MAY BE LARGER DUE TO POSSIBLE CONCRETE ENCASMENT NOT ABLE TO BE DETECTED BY ELECTROMAGNETIC METHODS. TEST HOLES REQUIRED FOR POSITIVE VERIFICATION OF ACTUAL EDGES.
- UTILITIES SHOWN OUTSIDE OF PROJECT LIMITS ARE FOR REFERENCE ONLY. THESE UTILITIES ARE SHOWN FOR GENERAL INFORMATION USE DURING UTILITY COORDINATION, BUT THEY HAVE NOT BEEN VERIFIED AS BEING COMPLETE OR ACCURATE.
- UTILITY SIZE AND TYPE ARE DETERMINED THROUGH AVAILABLE UTILITY OWNER INFORMATION OR FIELD OBSERVATIONS; UTILITIES LABELED AS UNKNOWN HAVE NO CORRELATED RECORDS OR VISIBLE APPURTENANCES TO DETERMINE FUNCTION OR TYPE.
- UTILITY MAPPING WAS COMPLETED IN THE FIELD 12/15/2020. CHANGE ORDER WAS ADDED ON 06/09/2021. UTILITIES MAY HAVE BEEN CHANGED OR ADDED AFTER THIS DATE.
- "END OF INFORMATION" (EOI) SIGNIFIES GEOPHYSICAL EQUIPMENT LOST THE SIGNAL OF THE TARGET UTILITY AND THE LINE WAS UNABLE TO BE DESIGNATED ANY FURTHER. LINES SHOWING AN EOI SYMBOL CONTINUE ON OR MAY STOP. POSITIVE VERIFICATION BY EXCAVATION IS REQUIRED TO CONFIRM PRESENCE BEYOND END OF SIGNAL.
- HORIZONTAL DATUM: #SEE PAGE ONE FOR DETAILS
- VERTICAL DATUM: #SEE PAGE ONE FOR DETAILS
- SAM, LLC. SUBMITTED THE FOLLOWING SUBSURFACE UTILITY ENGINEERING NOTIFICATION TICKETS: A029503369-00A, A029503371-00A, AND A029503373-00A.
- THE FOLLOWING COMPANIES HAVE NOT SUPPLIED RECORDS AS OF 01/20/2021:
COMCAST
GOLDEN HILLS MOBILE PARK
ZAYO
- UNLESS OTHERWISE NOTED THE FOLLOWING UTILITIES ARE OWNED AS SHOWN:

Utility Type	Owner	Contact Name	Contact Phone	Contact Email	Notes
Electric, Fiber	CDOT Region 1	Alex Schulte	303-512-5800	alex.schulte@state.co.us	
Fiber	CDOT Fiber Optic Backbone	Kerry Kramer	303-512-5900	kerry.kramer@state.co.us	
Fiber, Telecom	Lumen (formerly CenturyLink)	Jackie Yamaguchi	720 329-3170	jackelynn.yamaguchi@lumen.com	
Water, Sewer, Storm, Irrigation	City of Arvada	Alex Buchans	720-898-7600	abuchans@arvada.org	Clear/No Conflict
Water, Sewer, Storm	City of Golden	Melissa Crocker	303-384-8051	mcrocker@cityofgolden.net	
Cable TV, Fiber	Comcast	USIC	317-575-7800	N/A	
Fiber	MCI	Dean boyers	972-729-6322	investigations@verizon.com	Clear/No Conflict
Electric, Gas	Xcel	N/A	303-571-6636	N/A	
Fiber	Zayo	Steven Ward	720-682-7698	steven.ward@zayo.com	

LIST OF ACRONYMS:

AC	ASBESTOS CEMENT
CI	CAST IRON
CMP	CORRUGATED METAL PIPE
COGJ	CITY OF GRAND JUNCTION
CPP	CORRUGATED PLASTIC PIPE
CDOT	CO DEPARTMENT OF TRANSPORTATION
CONC	CONCRETE
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DBC	DIRECT BURIED CABLE
DIP	DUCTILE IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE
IP	INTERMEDIATE PRESSURE
LOI	LIMITS OF INVESTIGATION
M	MATERIAL
PVC	POLY VINYL CHLORIDE
PE	POLYETHYLENE
PH	PHASE
PLAS	PLASTIC
PR	PAIR
RCP	REINFORCED CONCRETE PIPE
RPP	RIGID PLASTIC PIPE
S	SIZE
S&M	SIZE AND MATERIAL
SAMH	SANITARY SEWER MANHOLE
SCDY	SECONDARY
ST	STRAND
STL	STEEL
STMH	STORM MANOLE
TC	TRAFFIC CONTROL
UNK	UNKNOWN
VCP	VITRIFIED CLAY PIPE

LEGEND

	STORM SEWER
	SANITARY SEWER
	ELECTRIC
	FIBER OPTIC
	GAS
	HIGH PRESSURE GAS
	WATER
	TELEPHONE
	TELEVISION
	LIMITS OF INVESTIGATION
	UNKNOWN UTILITY
	LIMITED ACCESS RIGHT OF WAY
	EXISTING RIGHT OF WAY
	BARRIER ACCESS CONTROL
	ELECTRIC CABINET
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC PULL BOX
	TELEPHONE PED
	SEWER MANHOLE
	EOI (END OF INFORMATION)
	DEP (DESIGNATED END POINT)
	OVERHEAD LIGHT
	FIBER OPTIC MARKER
	UTILITY POLE
	TRANSFORMER BOX
	FIRE-HYDRANT
	STORM SEWER INLET
	TELEPHONE MANHOLE
	ELECTRIC VAULT
	FIBER OPTIC HANDHOLE
	FIBER OPTIC VAULT
	TV PEDESTAL
	GAS METER
	GAS VENT
	GAS VALVE
	STORM MANHOLE
	TRAFFIC SIGNAL
	UTILITY MARKER
	STORM GRATE
	WATER VALVE
	WATER MANHOLE
	WATER METER
	TEST HOLE

QUALITY LEVEL "B"

STORM SEWER		QLB
SANITARY SEWER		QLB
ELECTRIC		E-QLB
FIBER OPTIC		FO-QLB
GAS		G-QLB
HIGH PRESSURE GAS		G-HP-QLB
WATER		W-QLB
TELEPHONE		T-QLB
TELEVISION		TV-QLB
UNKNOWN UTILITY		UNK-UNK-UNK-UI

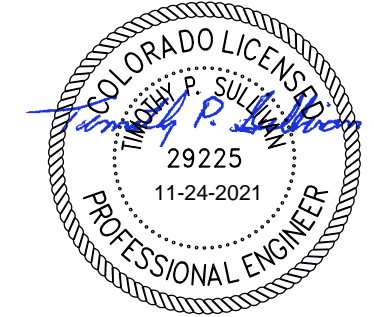
QUALITY LEVEL "C"

STORM SEWER		QLC
SANITARY SEWER		QLC
ELECTRIC		E-QLC
FIBER OPTIC		FO-QLC
GAS		G-QLC
HIGH PRESSURE GAS		G-HP-QLC
WATER		W-QLC
TELEPHONE		T-QLC
TELEVISION		TV-QLC
UNKNOWN UTILITY		UNK-UNK-UNK-UI

QUALITY LEVEL "D"

STORM SEWER		QLD
SANITARY SEWER		QLD
ELECTRIC		E-QLD
FIBER OPTIC		FO-QLD
GAS		G-QLD
ABANDONED GAS		G-AB-QLD
HIGH PRESSURE GAS		G-HP-QLD
WATER		W-QLD
TELEPHONE		T-QLD
TELEVISION		TV-QLD
UNKNOWN UTILITY		UNK-UNK-UNK-UI

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TIMOTHY P. SULLIVAN P.E. 29225 DATE
FOR AND ON BEHALF OF SAM, LLC



Print Date: 11/24/2021
File Name: 56548_SUE_Sheet 02_Gen_Notes.dgn
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SAM 555 ZANG ST, SUITE 210 PH: 303-988-5852
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Sheet Revisions		
Date:	Comments	Init.

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Phone: 720-497-6959
Fax: 720-497-6951

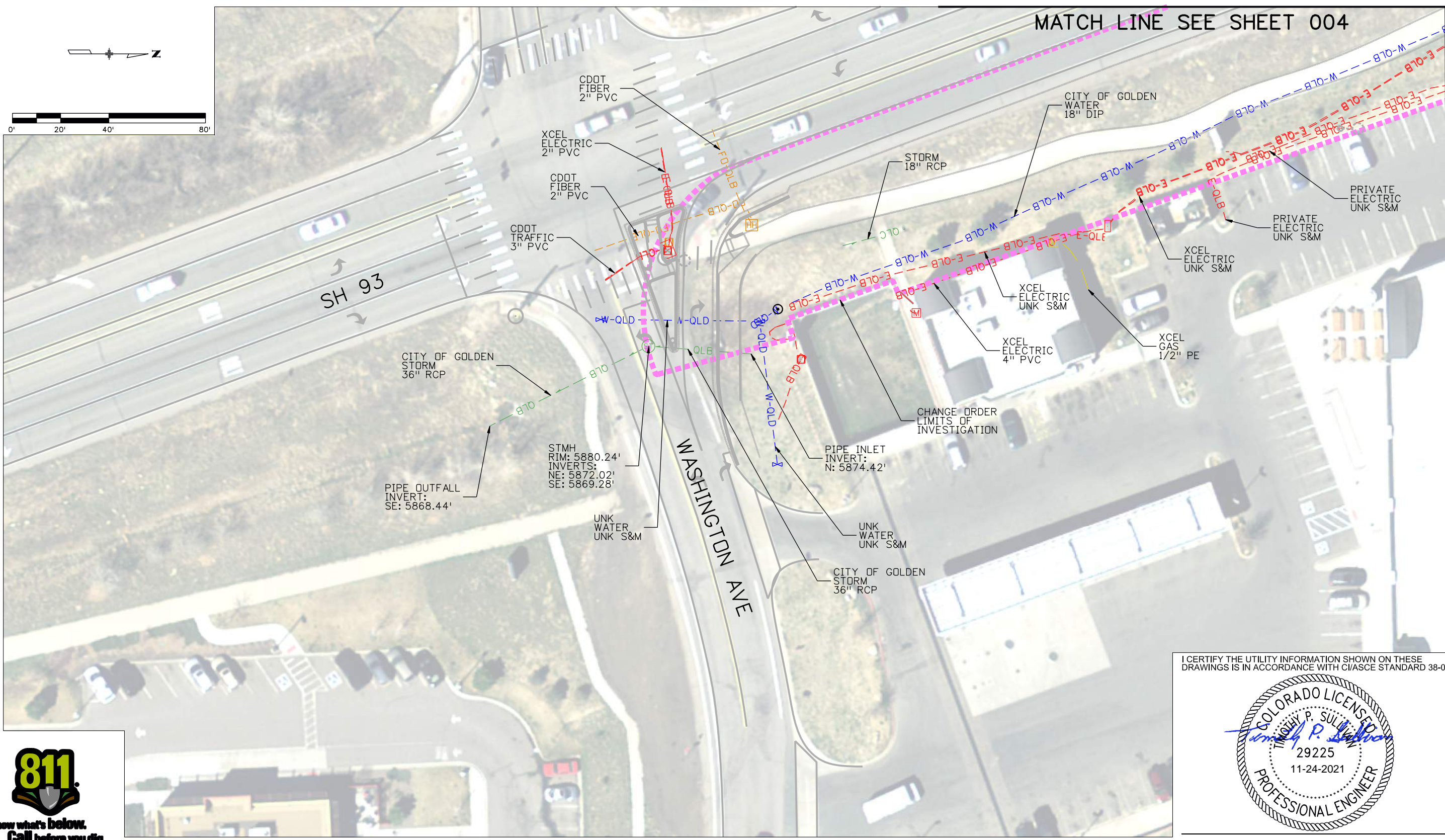
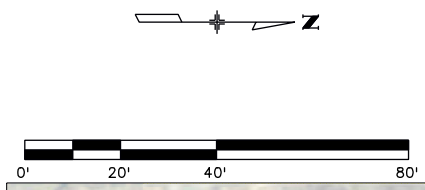
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Designer: T. SULLIVAN	Structure Numbers: -
Detailer: K. NABB	Numbers: -
Sheet Subset: SUE UTIL.	Subset Sheets: 002 of 011

Project No./Code
NHPP 0931-033
SA 23327
Sheet Number 89

MATCH LINE SEE SHEET 004



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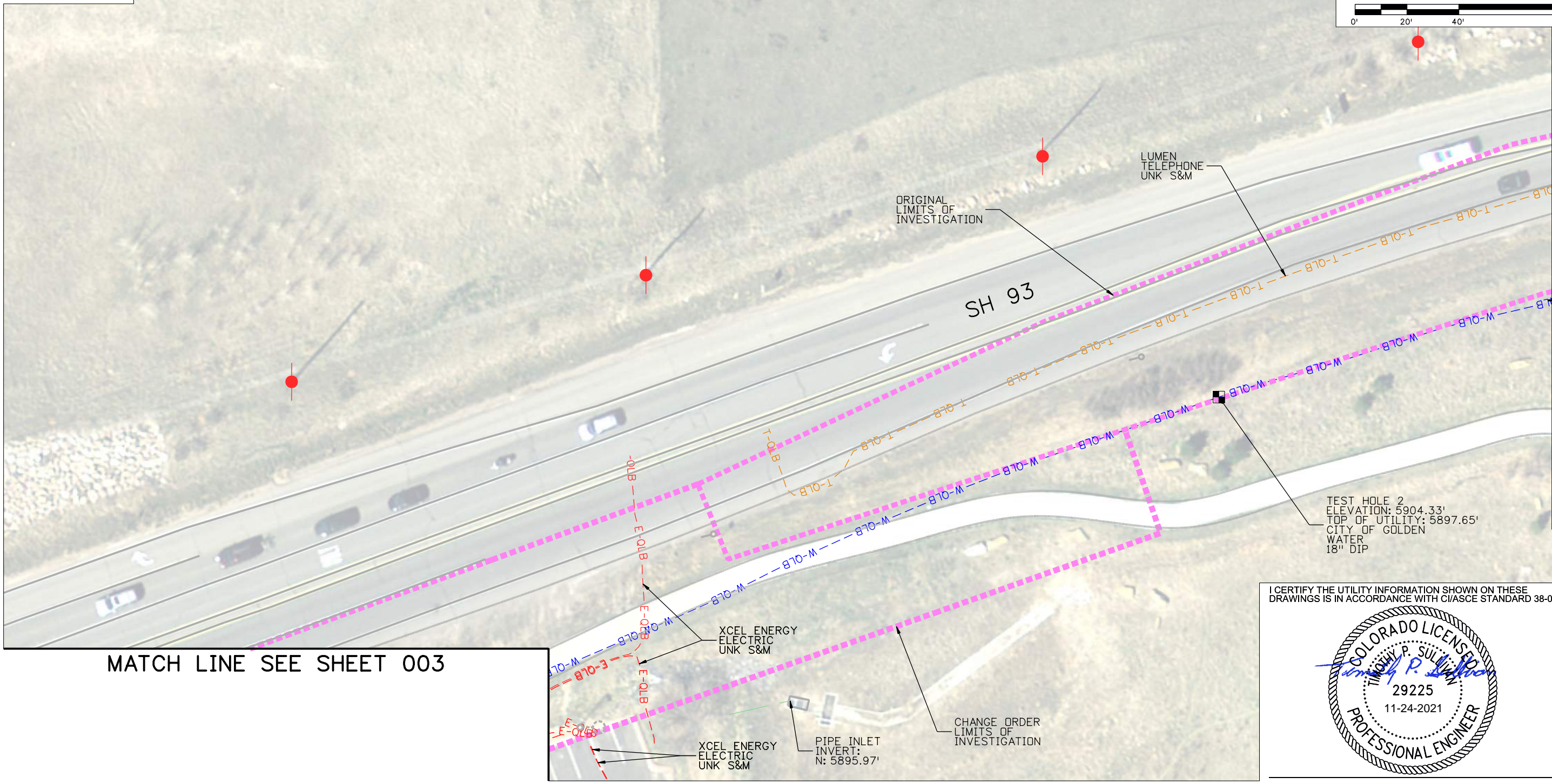
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Project No./Code	NHPP 0931-033
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Sheet Number	90

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Know what's below.
Call before you dig.

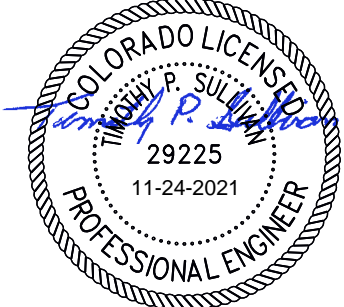


MATCH LINE SEE SHEET 003

MATCH LINE SEE SHEET 005

TEST HOLE 2
ELEVATION: 5904.33'
TOP OF UTILITY: 5897.65'
CITY OF GOLDEN
WATER
18" DIP

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TIMOTHY P. SULLIVAN P.E. 29225
FOR AND ON BEHALF OF SAM, LLC DATE

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Detailer: K. NABB	Numbers: -
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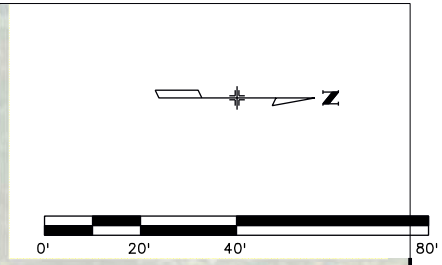
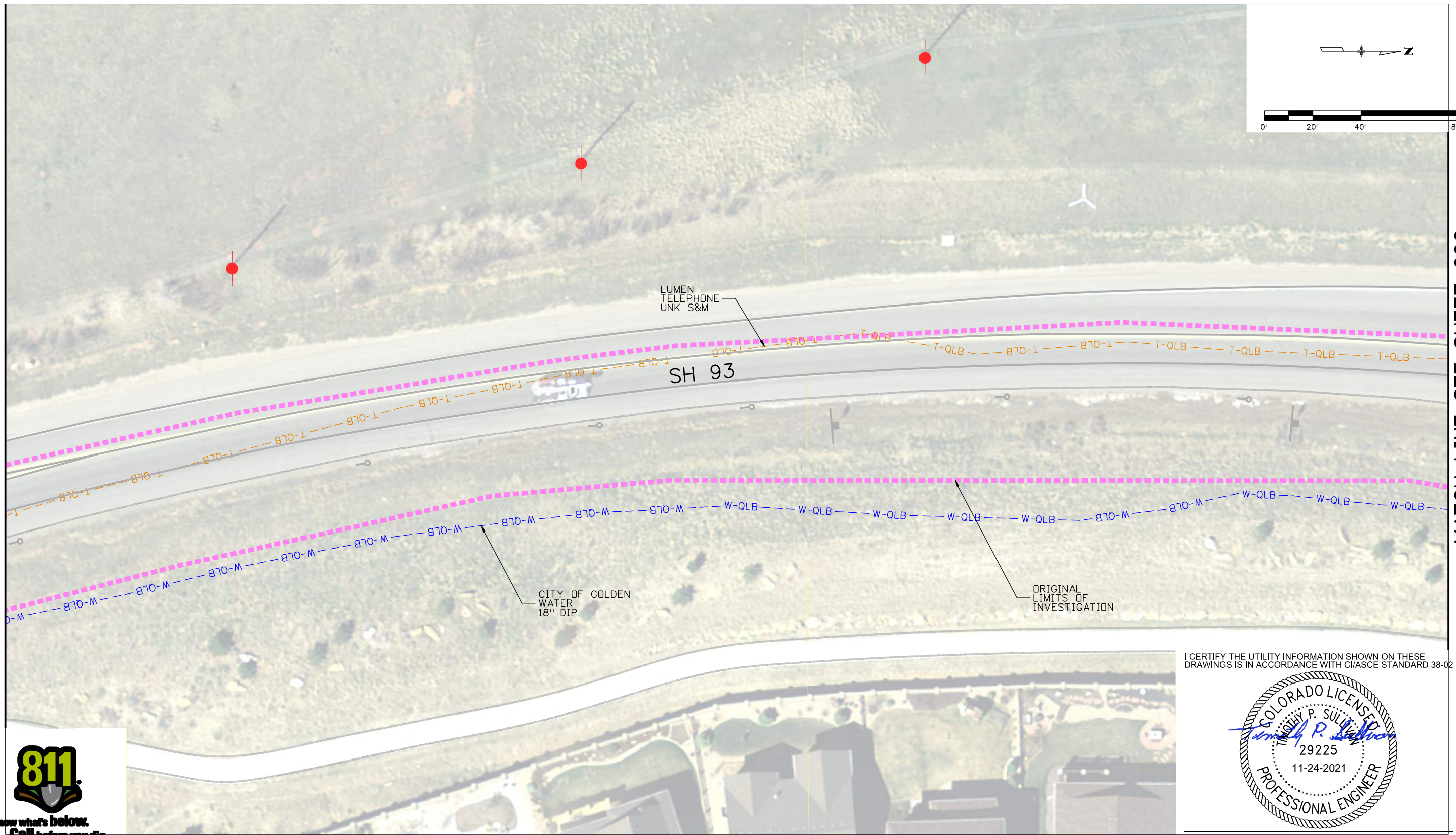
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SA 23327
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MATCH LINE SEE SHEET 004

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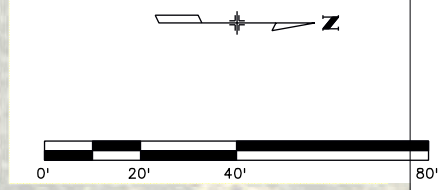
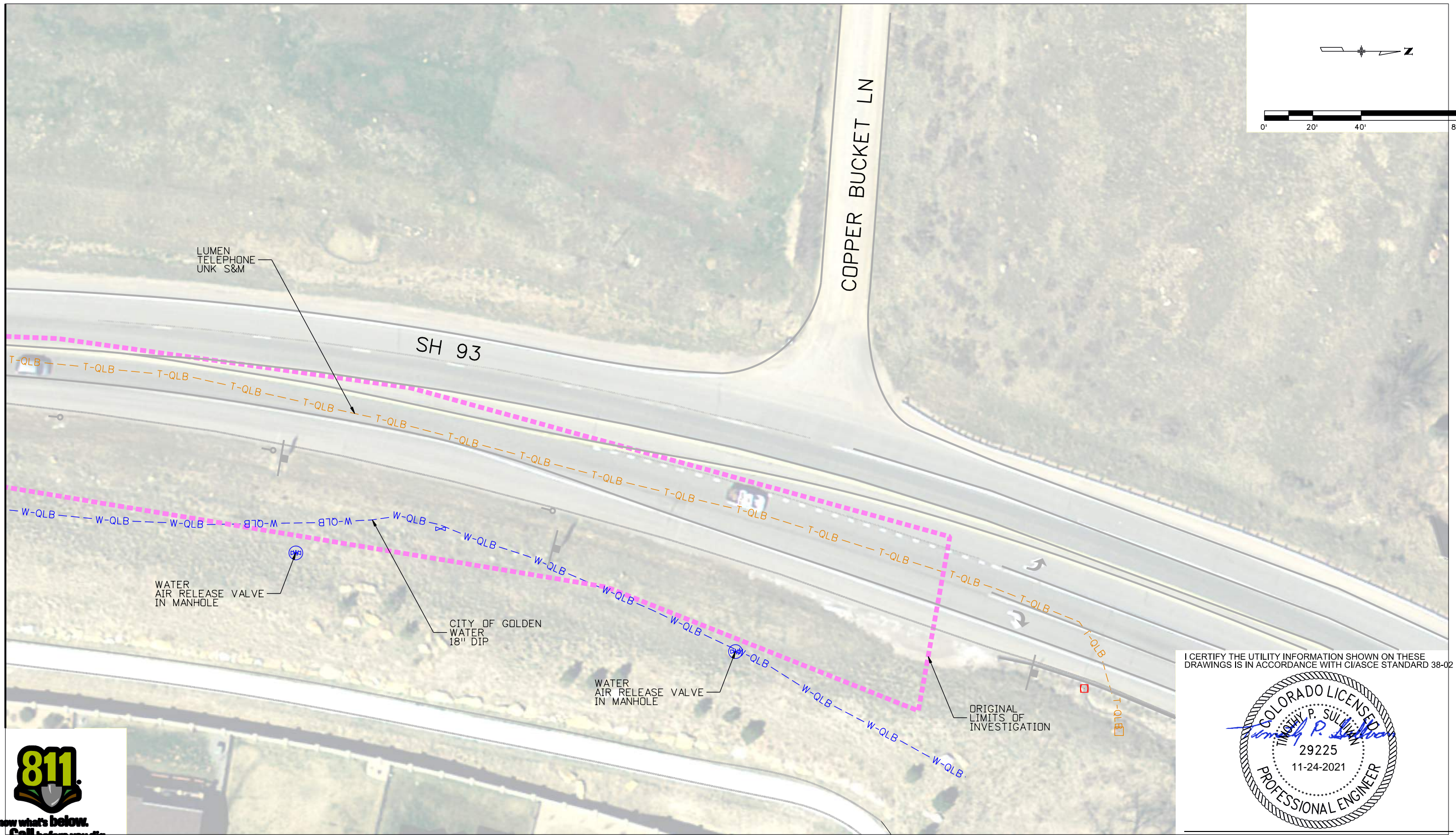
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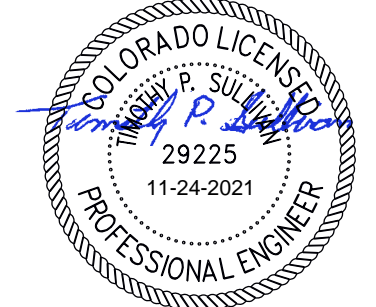
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SA 23327
Sheet Number 92

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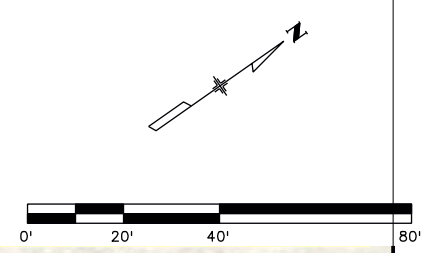
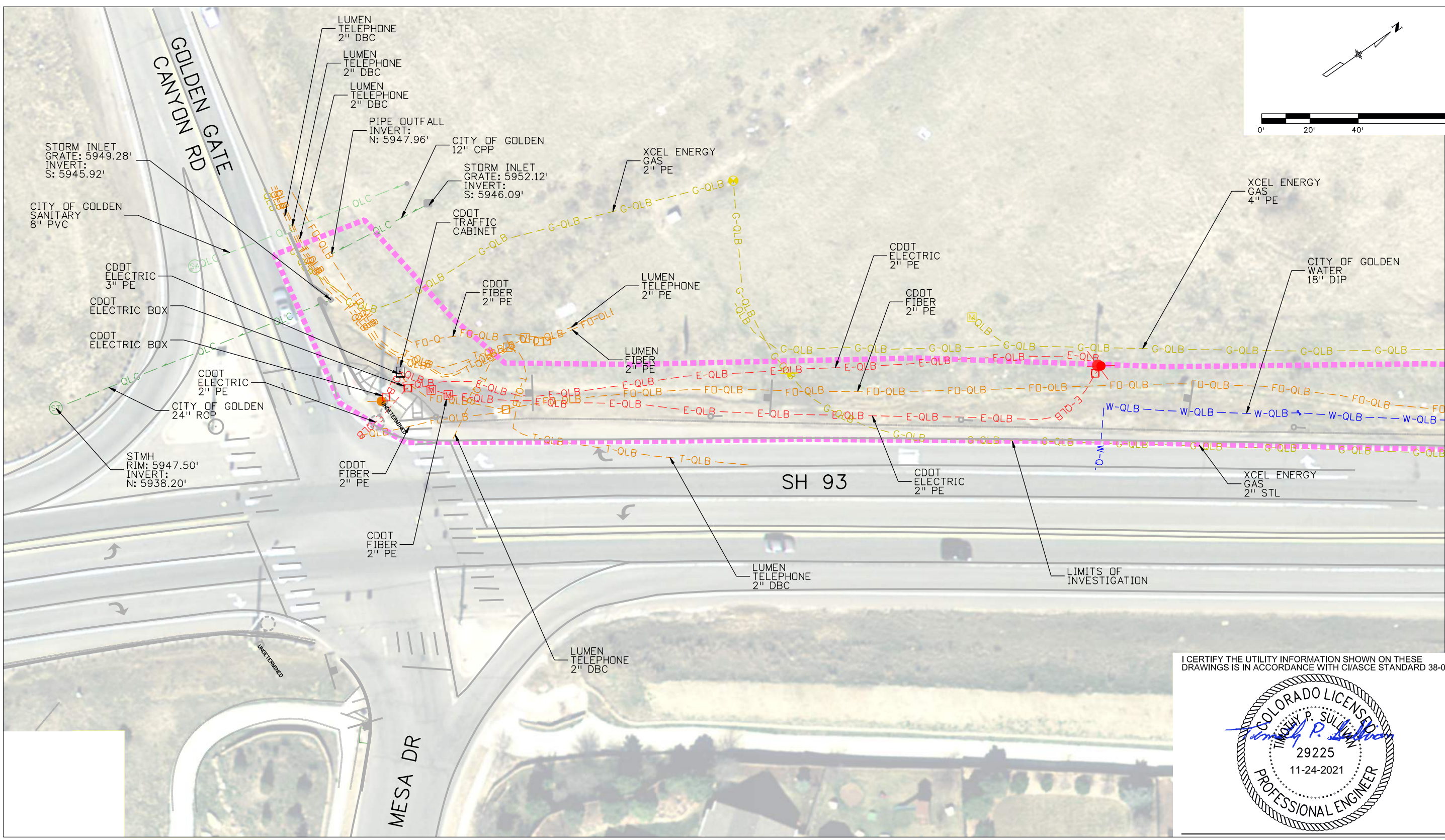
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Detailer:	K. NABB	Numbers	-
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Project No./Code
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SA 23327
Sheet Number 93

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Region 1

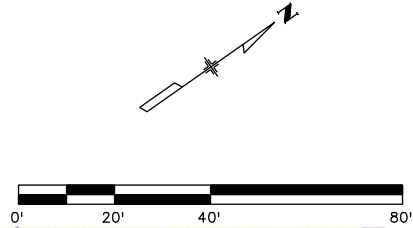
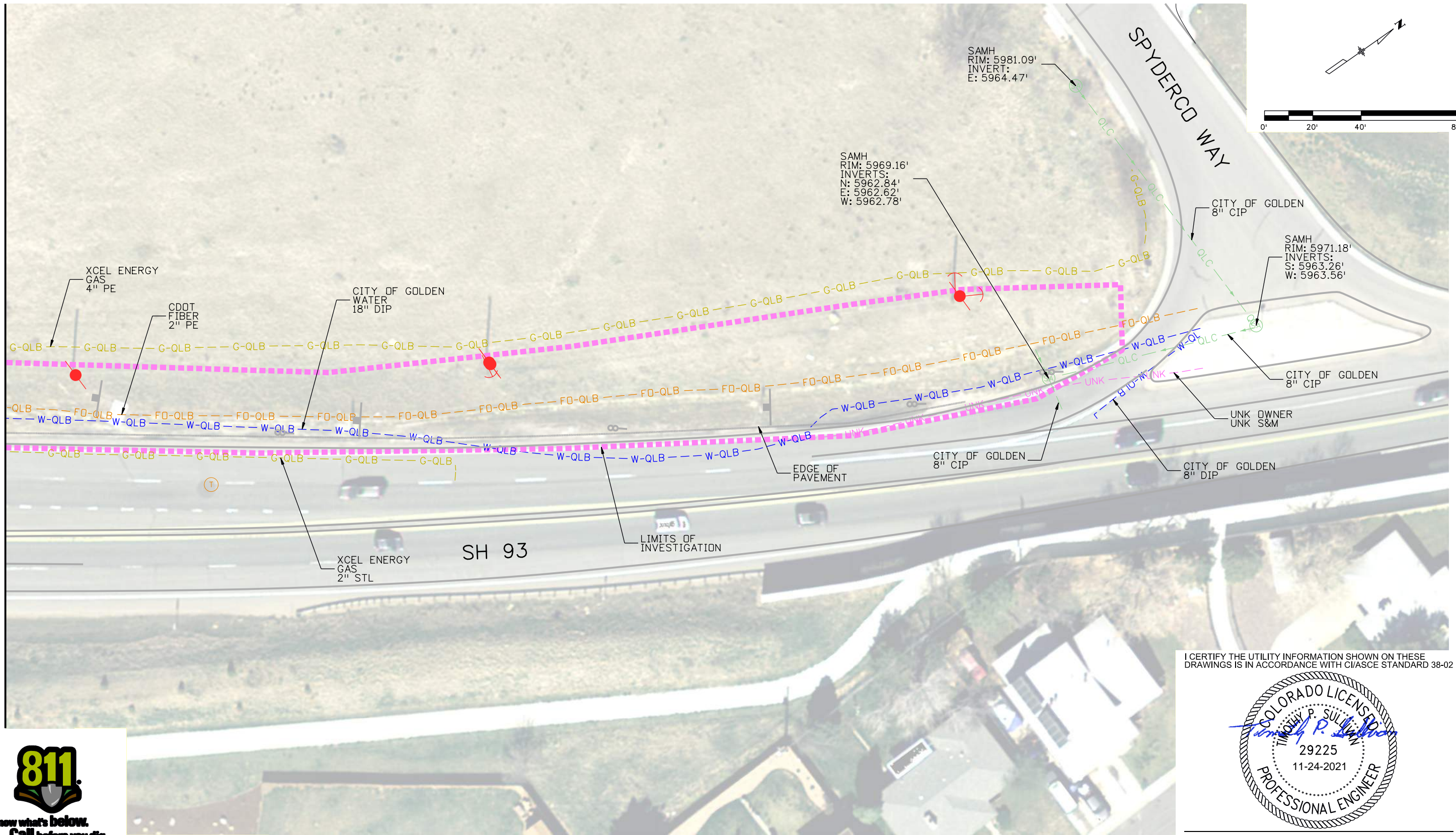
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Detailer:	K. NABB	Numbers	-
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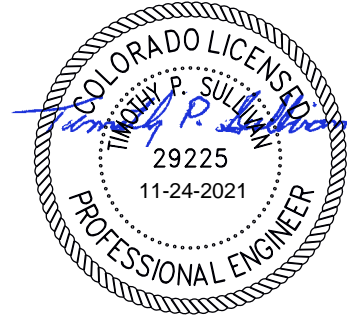
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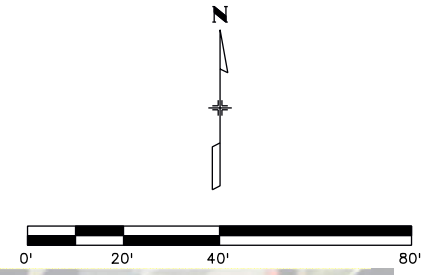
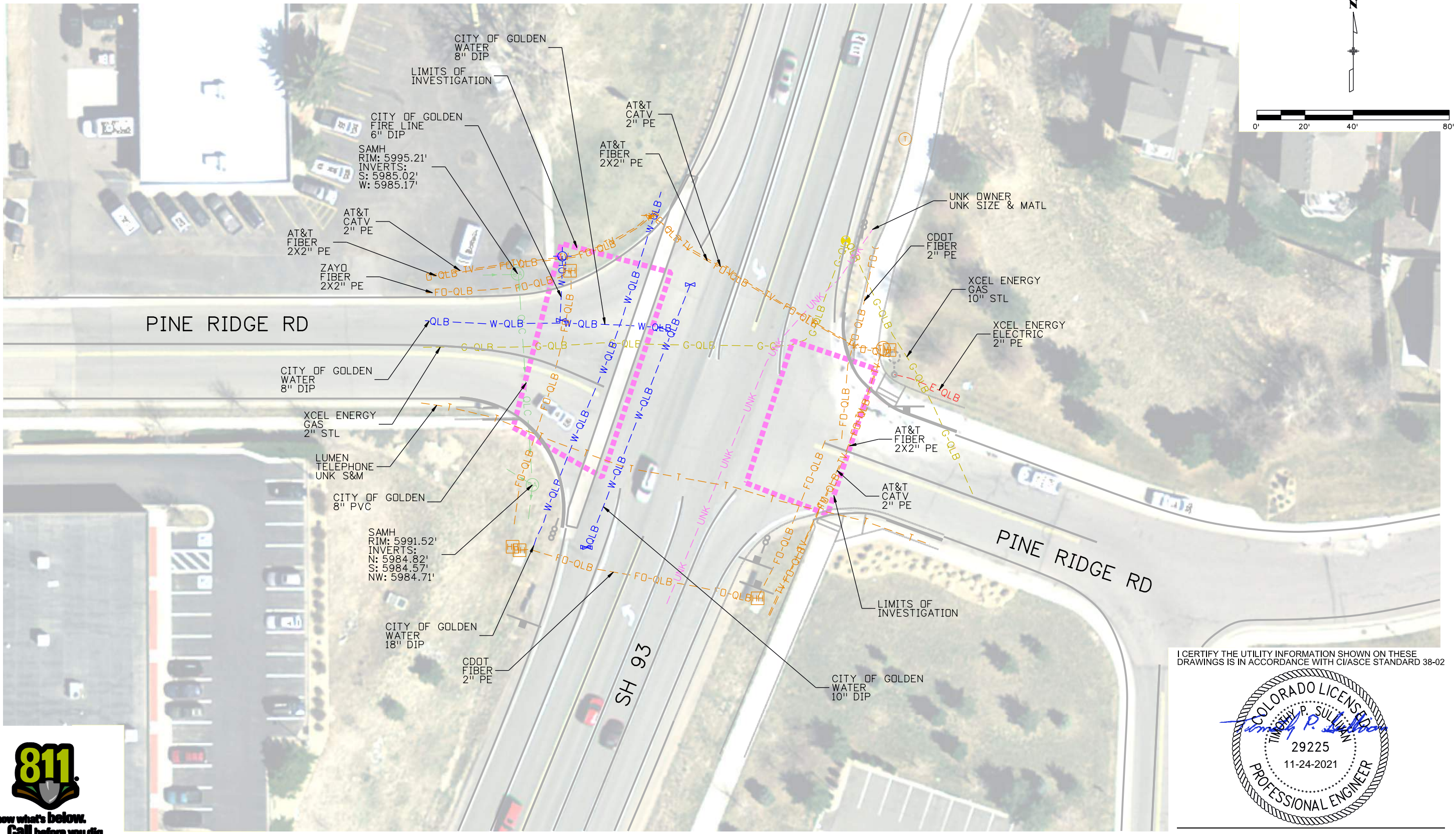
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Fax: 720-497-6951

Region 1

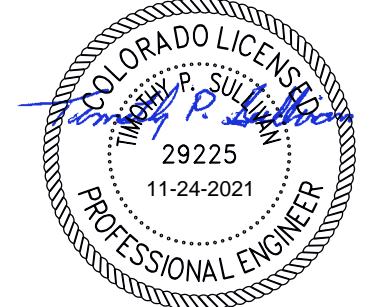
As Constructed
No Revisions:
Revised:
Void:

SH 93 IMPROVEMENTS	
SUBSURFACE UTILITY INVESTIGATION	
Designer: T. SULLIVAN	Structure Numbers: -
Detailer: K. NABB	Numbers: -
Sheet Subset: SUE UTIL.	Subset Sheets: 008 of 011

Project No./Code
NHPP 0931-033
SA 23327
Sheet Number 95



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TIMOTHY P. SULLIVAN P.E. 29225 FOR AND ON BEHALF OF SAM, LLC DATE



Print Date: 11/24/2021
File Name: 56548_SUE_Sheet 09_Plan.dgn
Horiz. Scale: 1:480 Vert. Scale: As Noted
SAM 555 ZANG ST, SUITE 210 PH: 303-988-5852 DENVER, COLORADO 80228 FAX: 303-988-2195

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

425 A CORPORATE CIRCLE
GOLDEN, CO 80401
Phone: 720-497-6959
Fax: 720-497-6951

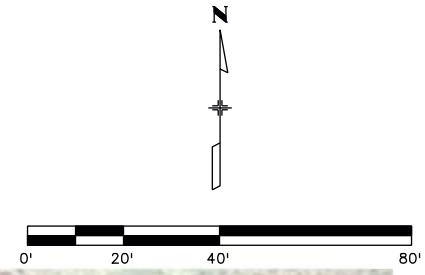
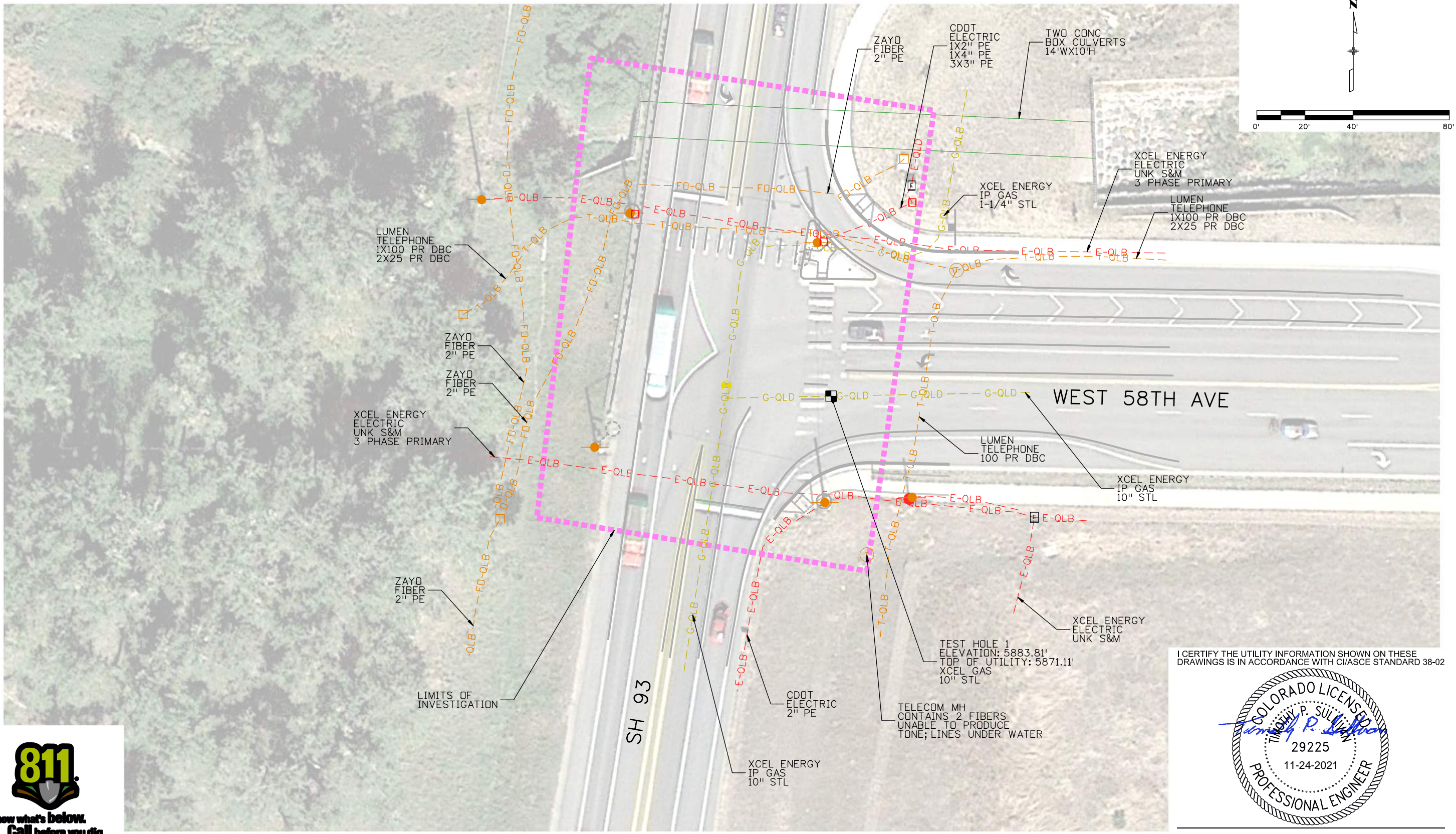
Region 1

As Constructed
No Revisions:
Revised:
Void:

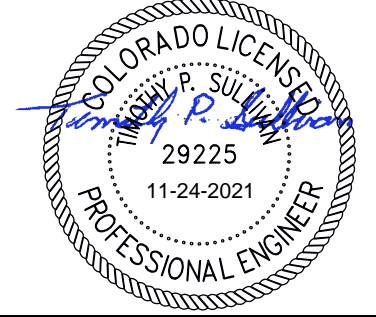
SH 93 IMPROVEMENTS SUBSURFACE UTILITY INVESTIGATION			
Designer:	T. SULLIVAN	Structure	-
Detailer:	K. NABB	Numbers	-
Sheet Subset:	SUE UTIL.	Subset Sheets:	009 of 011

Project No./Code
NHPP 0931-033
SA 23327
Sheet Number 96

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TIMOTHY P. SULLIVAN P.E. 29225 FOR AND ON BEHALF OF SAM, LLC DATE

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File Name: 56548_SUE_Sheet 10_Plan.dgn
Horiz. Scale: 1:480 Vert. Scale: As Noted
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GOLDEN, CO 80401
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Region 1

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Revised:
Void:

SH 93 IMPROVEMENTS	
SUBSURFACE UTILITY INVESTIGATION	
Designer: T. SULLIVAN	Structure Numbers: -
Detailer: K. NABB	Numbers: -
Sheet Subset: SUE UTIL.	Subset Sheets: 010 of 011

Project No./Code
NHPP 0931-033
SA 23327
Sheet Number 97

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SURVEYING AND MAPPING LLC
 555 ZANG ST, SUITE 210, LAKEWOOD, CO 80228
 PH. 303-988-5852

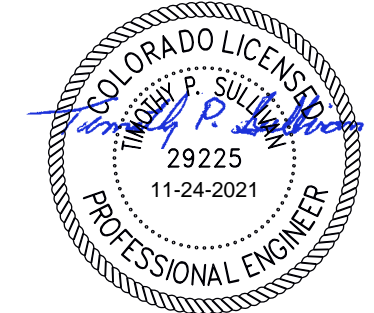
Test Hole Summary

Project: SH 93 Resurfacing
 SAM, LLC Project # 1020056548 Prepared By:
 Client: CDOT Checked By: Tim Sullivan

State: COLORADO City: Golden

TH#	Utility Expected	Utility Found	Utility Owner	Northing	Easting	Elev. Existing Ground	Elev. Top of Utility	Depth of Cover	NOTES
1	Gas	10" SW	Xcel	717546.175	78277.874	5883.81	5871.11	12.70'	SW - Steel Wrapped
2	Water	18" DI	City of Golden	705685.794	75041.519	5904.33	5897.65	6.68'	DI - Ductile Iron

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 Region 1
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 Revised:
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SH 93 IMPROVEMENTS
 SUBSURFACE UTILITY INVESTIGATION
 Designer: T. SULLIVAN
 Detailer: K. NABB
 Sheet Subset: SUE UTIL.
 Structure Numbers: -
 Subset Sheets: 011 of 011

Project No./Code
 NHPP 0931-033
 SA 23327
 Sheet Number 98

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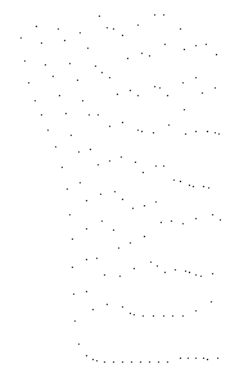
3. ADA pedestrian push buttons and decals shall be included in the cost of the controller. Pedestrian push button signs shall be decal type, adhered to a rigid flat plaque, oriented to assist with the crossing direction, conforming to MUTCD R10-3b. Traffic signal controller, cabinets, UPS and all miscellaneous components included in the cabinet necessary for full signal operation shall be delivered to the CDOT Region 1 Signal Shop at 18500 East Colfax Avenue, Aurora, CO 80011 for inspection and programming at least 15 days prior to installation. Delivery to and from the CDOT Region 1 Signal Shop shall be the responsibility of the Contractor. All damage sustained during transportation to and from the CDOT Region 1 Signal Shop shall be repaired at the Contractor's expense.
4. All vehicle and pedestrian indications shall be approved Solid State LED type. All vehicle and pedestrian head housings shall be yellow in color. Traffic signals that are mounted on mast arms shall be furnished with mounting bracket and black louvered backing plates with a 1.5 inch wide border of yellow Type XI material per the latest FHWA sign sheeting reference guide. Mast arms shall be of sufficient length to allow all signal heads to be centered over outbound lanes. Neither louvers nor Type XI material shall be paid for separately and are to be considered incidental to the work.
5. The signal shall not be put in flash mode or made fully operational until CDOT has inspected and approved the installation and all regulatory signing and pavement markings are in place. ½ inch preformed joint material shall be applied around the 6 inches of leveling concrete beneath signal poles when the signal pole is installed in existing concrete and considered incidental to the work and shall not be paid for separately.
6. Unless otherwise specified in the plans, all used or excess signal equipment shall remain the property of CDOT and be delivered to the CDOT Region 1 Signal Shop or a designated location specified in the contract.
7. Contractor's signal electrician is required to be on site, at a minimum, during AM & PM peak hours following the next day a signal is turned on to observe operation and make adjustments as needed. The Engineer may require the signal electrician to be onsite for additional hours as directed. This applies to both permanent and temporary installations. See Project Special Provision 105.20 Control of Work for requirements of the Traffic Signal Maintenance Plan.
8. The Contractor shall adhere to the following requirements regarding traffic signal construction and maintenance personnel. Current certificates showing qualifications shall be submitted at the pre-construction meeting.
 - (1) For any work inside the traffic signal cabinet, signal and signal bench technicians shall be minimum IMSA Level II certified. This includes the completion of training in construction, corrective maintenance, and signal turn-on.
 - (2) Field Technician/Electrician - or Traffic Signal Bench Technician/Signal Technician - is required. An IMSA Level II Traffic Signal Electrician - shall be on the job site at all times that signalization work is taking place to ensure proper construction.

A maximum ratio of four IMSA Level I to one IMSA Level II will be allowed for work external to the signal cabinet. The United States Department Of Labor – Bureau of Apprenticeship and Training may be substituted for the IMSA Level I Traffic Signal Electrician Requirement.
9. Item 613-10000, Wiring (1 Lump Sum), shall include all necessary wiring work, not otherwise included in an individual pay item, required to provide a complete and fully functional traffic signal system.
10. The removal of the existing signal system shall include all bases to below the finished grade per CDOT specifications, the existing control cabinet and its base, poles, mast arms, signal faces, pedestrian push buttons, pedestrian poles, pull boxes, and any other devices that were utilized in the existing signal system to be replaced which may include the removal of existing conduit that may interfere with the new signal installation. All equipment, labor, and/or materials used to complete this work shall be included in the lump sum pay item "Removal of Traffic Signal Equipment". All existing salvageable signal equipment shall remain the property of CDOT and shall be returned to CDOT's Region 1 Signal Shop.
11. Call CDOT Traffic Operations, at 303-757-9950 prior to any traffic signal work - including, but not limited to signal heads removal, replacement, or adjustment.

12. Uniformed Traffic Control shall be utilized for any and all flagging necessary within signalized intersections.
13. Two or more weeks prior to the start of construction, the Contractor shall submit temporary phasing and timing signal plans to the Engineer for approval.
14. The Contractor shall provide CDOT with at least four (4) sets of equipment specifications/descriptions and obtain approvals prior to ordering the equipment.
15. All manuals, installation guides and associated equipment shall be provided to the Engineer at time of inspection.
16. Controller cabinet shall be as shown on the plans and shall be included in the cost of the controller. The controller cabinet shall be mounted on a preformed fiberglass or concrete base. Load switches shall indicate input and output. The Uninterruptible Power Supply (UPS) shall be provided to run signal for two hours in all phases, and flash up to four additional hours.
17. Traffic Signal (Temporary): The Contractor is responsible for the coordination, installation, maintenance, and removal of any related item as may be needed to execute the proposed construction phasing and in accordance with the Project Special Provisions. The existing traffic signal controller will be utilized for the temporary signal and for the final signal configuration. This work shall not be paid for separately, but shall be included in the cost of Traffic Signal (Temporary).

Phasing Notes

1. All phases of construction shall maintain access to all properties within the project.
2. The Contractor shall phase the work to maintain all existing lanes and movements prior to construction unless otherwise noted.
3. If the Contractor will need full closures of the roadway to accommodate construction activities, the Project Engineer shall approve in conjunction with the CDOT Region 1 Traffic Engineer. It shall be the Contractor's responsibility to develop a suitable detour route using public roads. The detour shall not be implemented until approval is received from the CDOT Project Engineer and CDOT Region 1 Traffic Engineer. Refer to Project Special Provision "Traffic Control Plan General" for more details.
4. All phasing must be approved by the Project Engineer before being implemented.



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	File Name: 23327 Traffic GeneralNotes 2.dgn	Date:	Comments	Init.		No Revisions:				NHPP 0931-033
	Horiz. Scale: 1:100 Vert. Scale: As Noted					Revised:	Designer: AF	Structure Numbers		23327
						Void:	Sheet Subset: TRAF NOTE		Subset Sheets: 02 of 02	Sheet Number 100

SUMMARY OF TRAFFIC ENGINEERING ITEMS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	PROJECT TOTALS
202-00250	Removal of Pavement Marking	SF	52,738
202-00810	Removal of Ground Sign	EACH	70
202-00821	Removal of Sign Panel	EACH	3
202-00828	Removal of Traffic Signal Equipment	L S	1
202-00860	Removal of Pedestrian Push Button	EACH	20
202-00827	Removal of Pull Box	EACH	11
210-00473	Reset CCTV Camera	EACH	1
210-00810	Reset Ground Sign	EACH	2
210-00830	Reset Signal Head	EACH	7
210-00845	Reset Traffic Signal Controller	EACH	1
210-00882	Reset Traffic Signal Vehicle Detector	EACH	2
210-00859	Modify Pedestrian Push Button	EACH	1
503-00018	Drilled Caisson (18 Inch)	LF	5
503-00036	Drilled Caisson (36 Inch)	LF	38
503-00048	Drilled Caisson (48 Inch)	LF	36
613-00206	2 Inch Electrical Conduit (Bored)	LF	115
613-00306	3 Inch Electrical Conduit (Bored)	LF	420
613-01200	2 Inch Electrical Conduit (Plastic)	LF	150
613-01300	3 Inch Electrical Conduit (Plastic)	LF	275
613-07001	Type One Pull Box	EACH	6
613-07004	Type Four Pull Box	EACH	8
613-07005	Type Five Pull Box	EACH	2
613-10000	Wiring	L S	1
613-13008	Luminaire (LED) (8000 Lumens)	EACH	3
613-80130	Service Meter Cabinet	EACH	1
614-00011	Sign Panel (Class I)	SF	256
614-00012	Sign Panel (Class II)	SF	767
614-01583	Steel Sign Support (2-1/2 In Round Sch 80) (Post &	EACH	81
614-70150	Pedestrian Signal Face (16) (Countdown)	EACH	4
614-70336	Traffic Signal Face (12-12-12)	EACH	11
614-70448	Traffic Signal Face (12-12-12-12)	EACH	2
614-72855	Traffic Signal Controller Cabinet	EACH	1
614-72860	Pedestrian Push Button	EACH	12
614-72863	Pedestrian Push Button Post Assembly	EACH	16
614-70200	Accessible Pedestrian Signal	EACH	8
614-72885	Traffic Signal Vehicle Detector (Special)	EACH	11
614-81140	Traffic Signal-Light Pole Steel (1-40 Foot Mast Arm)	EACH	1
614-81145	Traffic Signal-Light Pole Steel (1-45 Foot Mast Arm)	EACH	1
614-81160	Traffic Signal Light Pole Steel (1-60 Foot Mast Arm)	EACH	1
614-84000	Traffic Signal Pedestal Pole Steel	EACH	1
627-00008	Modified Epoxy Pavement Marking	GAL	368
627-00013	Pavement Marking Paint (High Build)	GAL	1092
627-01010	Preformed Plastic Pavement Marking (Type I)(Inlaid)	SF	10314
627-30405	Preformed Thermoplastic Pavement Marking (Word-	SF	1521
627-30410	Preformed Thermoplastic Pavement Marking (Xwalk-Stop	SF	5788
620-00020	Sanitary Facility	EACH	1
626-00000	Mobilization	L S	1
630-00000	Flagging	HOUR	2300
630-00006	Uniformed Traffic Control (Vehicle)	HOUR	800
630-00007	Traffic Control Inspection	DAY	55
630-00012	Traffic Control Management	DAY	115
630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	4
630-80341	Construction Traffic Sign (Panel Size A)	EACH	184
630-80342	Construction Traffic Sign (Panel Size B)	EACH	103
630-80355	Portable Message Sign Panel	EACH	4
630-80360	Drum Channelizing Device	EACH	100
630-80370	Barrier (Temporary)	LF	1750
630-80380	Traffic Cone	EACH	300
630-80385	Lane Divider (Temporary)	EACH	54
630-80357	Advance Warning Flashing or Sequencing Arrow Panel (B	EACH	4
630-80393	Stackable Vertical Panels	EACH	50
630-85010	Impact Attenuator (Temp)	EACH	1
630-85041	Mobile Attenuator	DAY	100
632-00000	Night Work Lighting	L S	1

* - ESTIMATED ITEM, AS DIRECTED BY THE ENGINEER

TABULATION OF CONSTRUCTION TRAFFIC CONTROL DEVICES

CONSTRUCTION SIGNS			
SIGN CODE	LEGEND	DIMENSION	PANEL SIZE
			A
48G20-10	XYZ/CONSTRUCTION/THANKS YOU/555-555-5555	48x48	4
48G20-11	CONSTRUCTION INFO SIGN	48x48	4
48W4-2()	LANE ENDS (TRANSITION SYMBOL)	48x48	4
48W5-1	ROAD NARROWS	48x48	4
48W8-1	BUMP	48x48	4
48W20-0	ROAD WORK (AHEAD)	48x48	20
48W20-3	ROAD CLOSED (AHEAD)	48x48	12
48W20-5	() LANE CLOSED (AHEAD)	48x48	4
48W20-7a	FLAGGER (SYMBOL)	48x48	4
48W20-52	GROOVED PAVEMENT AHEAD	48x48	4
48W21-5	SHOULDER WORK	48x48	4
36R4-7B	KEEP RIGHT	24X30	4
36R4-8B	KEEP LEFT	24X30	4
36R52-6a	BEGIN FINES DOUBLE IN WORK ZONE	36x48	10
36R52-6b	END FINES DOUBLE IN WORK ZONE	36x48	10
36G20-5	WORK ZONE	36x12	8
36R-1 (XX)	SPEED LIMIT (XX)	36X48	8
36R2-6	FINES DOUBLE	36X24	8
24R9-9	SIDEWALK CLOSED	24x12	4
24R9-11	SIDEWALK CLOSED AHEAD CROSS HERE	24x12	4
48R11-2	ROAD CLOSED	48x30	7
24R3-1	RIGHT TURN PROHIBITION	24x24	1
30M4-9a	BICYCLE PEDESTRIAN DETOUR	30x24	4
30M4-8	DETOUR	30X24	24
30M4-8a	END DETOUR	30X24	21
30M5-1	DIRECTIONAL ARROW	30X21	7
30M6-1	DIRECTIONAL ARROW	30X21	7
30M6-2	DIRECTIONAL ARROW	30X21	6
30M6-3	DIRECTIONAL ARROW	30X21	8
36M1-5a	STATE HIGHWAY	36X36	24
24M3-1	NORTH	24X30	14
24M3-2	EAST	24X30	10
24M3-3	SOUTH	24X30	10
24M3-4	WEST	24X30	10
30M4-4	TRUCK AUXILIARY	30x15	6
TOTALS			184 103

SHEET NOTES

- SEE STANDARD S-630-1 OF THE "COLORADO STANDARDS PLANS" FOR TYPICAL PLACEMENT OF THE CONSTRUCTION TRAFFIC CONTROL DEVICES.
- LOCAL NUMBERS ONLY SHALL BE USED ON THE CONSTRUCTION INFO SIGNING AND NO NUMBER WITH EXTENSIONS SHALL BE ALLOWED.
- STENCIL BLACK ON REFLECTIVE WHITE.
- STENCIL BLACK ON REFLECTIVE ORANGE.
- TO BE PROVIDED WITH INTERCHANGEABLE PLAQUES AT NO ADDITIONAL COST TO THE PROJECT.
- ALL SIGNS SHALL BE POST MOUNTED AND PLACED IN ACCORDANCE WITH THE STANDARD "GROUND SIGN PLACEMENT" UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS, THE FINAL LOCATION OF ALL SIGNS ARE SUBJECT TO THE APPROVAL
- QUANTITIES FOR CONSTRUCTION TRAFFIC CONTROL DEVICES ARE SUFFICIENT ONLY FOR ONE SET UP AT A TIME.

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425 A Corporate Circle
Golden, CO 80401
Phone: 720-497-6959
FAX: 720-497-6951

Region 1 JDS

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TABULATION OF TRAFFIC ITEMS			
Designer:	AF	Structure	
Detailer:	AM	Numbers	
Sheet Subset:	TRAFF TAB	Subset Sheets:	01 of 06

Project No./Code	NHPP 0931-033
	23327
Sheet Number	101

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TABULATION OF SIGNS

SIGN NO.	STATION	SIGN CODE	LEGEND	DIRECTION	SIGN STRUCTURE	SIGN PANEL SIZE			BACKGROUND COLOR	SIGN PANEL			REMOVE GROUND SIGN	REMOVE SIGN PANEL	RESET GROUND SIGN	SIGN STEEL POST 2.5" RD 80 (Post&Slipbase)			COMENTS			
						W"	x	H"		CLASS I	CLASS II	CLASS III				EA	EA	EA		EA		
										SF	SF	SF								10'	12'	14'
						614-00011	614-00012	614-00013		202-00810	202-00821	210-00810				614-01583						
1	SH 93	M1-4(US 6)	US 6	NB		24		24	White	4												
2	100+16	M6-1L	Left Arrow	NB		21		15	White	3												
3	100+16	M1-5a(SH 93)	SH 93	NB		24		24	White	4												
4	100+16	M6-3	Thru Arrow	NB		21		15	White	3												
5	100+16	M1-5a(SH 58)	SH 58	NB		24		24	White	4												
6	100+16	M6-1R	Right Arrow	NB		21		15	White	3												
7	100+26	R3-5L	Left Only	SB	006G271669A	30		36	White	8									Mounted on signal mast arm.			
8	100+26	R3-5L	Left Only	SB	006G271669A	30		36	White	8									Mounted on signal mast arm.			
9	100+27	M1-4(US 6)	US 6	EB		24		24	White	4												
10	100+27	M6-1R	Right Arrow	EB		21		15	White	3												
11	100+27	M1-5a(SH 93)	SH 93	EB		24		24	White	4												
12	100+27	M6-1L	Left Arrow	EB		21		15	White	3												
13	100+27	M1-5a(SH 58)	SH 58	EB		24		24	White	4												
14	100+27	M6-3	Thru Arrow	EB		21		15	White	3												
15	100+86	R3-5L	Left Only	WB	006G271669D	30		36	White	8									Mounted on signal mast arm.			
16	100+86	R3-5L	Left Only	WB	006G271669D	30		36	White	8									Mounted on signal mast arm.			
17	101+40	M1-4(US 6)	US 6	SB		24		24	White	4												
18	101+40	M6-6R	Thru-Right	SB		21		15	White	3												
19	101+40	M1-5a(SH 58)	SH 58	SB		24		24	White	4												
20	101+40	M6-1L	Left Arrow	SB		21		15	White	3												
21	101+55	R3-5L	Left Only	NB	006G271669C	30		36	White	8				1					Mounted on signal mast arm.			
22	101+55	R3-5L	Left Only	NB	006G271669C	30		36	White	8									Mounted on signal mast arm.			
23	101+62	M1-4(US 6)	US 6	WB		24		24	White	4												
24	101+62	M6-6L	Thru-Left	WB		21		15	White	3												
25	101+62	M1-5a(SH 93)	SH 93	WB		24		24	White	4												
26	101+62	M6-1R	Right Arrow	WB		21		15	White	3												
27	102+32	Special	Vehicles >13'	SB		48		60	White					1					Sign layout to be provided			
28	102+32	Special	On US 6	SB		48		24	White													
29	103+42	D1-2	Denver/Idaho Spgs	SB		84		30	Green					1			2		Sign layout to be provided.			
30	104+20	M3-1	North	NB		24		12	White	2												
31	104+20	M1-5a(SH 93)	SH 93	NB		24		24	White	4												
32	105+08	M1-4(US 6)	US 6	SB		24		24	White	4												
33	105+08	M6-6R	Thru-Right	SB		21		15	White	3												
34	105+08	M1-5a(SH 58)	SH 58	SB		24		24	White	4												
35	105+08	M6-1L	Left Arrow	SB		21		15	White	3												
36	105+12	W1-4R	Slight Right	NB		36		36	Yellow					1			1					
37	107+31	W3-3	Signal Ahead	SB		36		36	Yellow													
38	109+33	D2-1(Boulder)	Boulder 18	NB		72		18	Green					1			1					
39	109+65	Special	To SH 119	SB		72		84	Green										Sign layout to be provided.			
SHEET TOTALS										138	73	42	8	2	1	4	3	3				

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				JDS			

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TABULATION OF SIGNS

SIGN NO.	STATION	SIGN CODE	LEGEND	DIRECTION	SIGN STRUCTURE	SIGN PANEL SIZE			BACKGROUND COLOR	SIGN PANEL			REMOVE GROUND SIGN	REMOVE SIGN PANEL	RESET GROUND SIGN	SIGN STEEL POST 2.5" RD 80 (Post&Slipbase)			COMMENTS			
						W"	x	H"		CLASS I	CLASS II	CLASS III				EA	EA	EA		EA		
										SF	SF	SF								10'	12'	14'
						614-00011	614-00012	614-00013		202-00810	202-00821	210-00810				614-01583						
	SH 93																					
40	111+40	M2-1	JCT	SB		21	15	White	3													
41	111+40	M1-5a(SH 58)	SH 58	SB		24	24	White	4													
42	111+40	M2-1	JCT	SB		21	15	White	3													
43	111+40	M1-4(US 6)	US 6	SB		24	24	White	4													
44	112+51	R2-1(45)	45 MPH	NB		36	48	White		12		1										
45	117+19	W1-4R	Slight Right	SB		48	48	Yellow		16		1										
46	120+04	R2-1(45)	45 MPH	SB		36	48	White		12		1										
47	130+34	D3-2	Iowa Dr Next Signal	NB		72	36	Green		18		1				2			Sign layout to be provided.			
48	138+47	R3-7R	RLMTR	SB		36	36	White		9		1										
49	141+40	W9-2	Lane Ends Merge Left	NB				Yellow				1										
50	141+86	D3-2	Iowa Dr Next Signal	SB		72	36	Green		18		1				2			Sign layout to be provided.			
51	142+16	R2-1(45)	45 MPH	NB		36	48	White		12		1										
52	144+84	R3-7R	RLMTR	NB		30	30	White				1										
53	146+10	D3-2	Wash Ave Next Signal	NB		96	48	Green		32		1							Sign layout to be provided.			
54	149+89	R3-7R	RLMTR	NB		30	30	White				1										
55	151+83	R3-5R	Right Only	NB		30	36	White					1									
56	151+83	R3-6R	Thru-Right	NB		30	36	White	8										Mount over NB second lane.			
57	153+71	R3-7R	RLMTR	SB		36	36	White		9		1										
58	156+23	R2-1(45)	45 MPH	SB		36	48	White		12		1										
59	155+73	W4-2R	Right Lane Merge	NB		36	36	Yellow		9						1						
60	158+49	D3-2	Wash Ave Next Signal	SB		96	48	Green		32		1							Sign layout to be provided.			
61	158+73	M3-3	South	SB		24	12	White		2		1										
62	158+73	M1-5a(SH 93)	SH 93	SB		24	24	White		4												
63	162+72	R2-1(45)	45 MPH	NB		36	48	White		12		1										
64	166+51	D3-2	Golden Gate Next Signal	NB		96	48	Green		32									Sign layout to be provided.			
65	167+70	Special	Golden Gate Canyon SP	NB		96	48	Brown		32				1					Sign layout to be provided.			
66	169+79	R3-7R	RLMTR	NB		30	30	White				1										
67	170+88	W4-2R	Right Lane Merge	SB		36	36	Yellow		9		1										
68	174+35	R3-6R	Thru-Right	NB		30	36	White	8										Mounted on signal mast arm.			
69	174+71	R1-2	Yield	WB		36	36	Red	9			1										
70	175+57	R3-7R	RLMTR	SB		36	36	White		9		1										
71	176+84	W4-2R	Right Lane Merge	NB		36	36	Yellow		9												
72	177+26	W3-3	Signal Ahead	SB		36	36	Yellow		9		1										
73	179+10	R2-1(45)	45 MPH	NB		36	48	White		12		1										
74	179+82	D3-2	Golden Gate Next Signal	SB		96	48	Green		32									Sign layout to be provided.			
75	180+87	W1-8	Chevron	NB		18	24	Yellow	3			1										
76	181+55	R2-1(45)	45 MPH	SB		36	48	White		12		1										
77	181+60	W1-8	Chevron	NB		18	24	Yellow	3			1										
78	181+96	R3-2L	No Left Turn	NB		24	24	White	4			1										
79	188+80	R3-7R	RLMTR	SB		36	36	White		9		1										
SHEET TOTALS									49	374	0	28	1	1	15	19						

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022 File Name: 23327_TRAFF_TAB_3.dgn Horiz. Scale: 1:1 Vert. Scale: As Noted	Sheet Revisions Date: Comments Init.	Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	TABULATION OF SIGNING Designer: AF Structure: Detailer: AM Numbers: Sheet Subset: TRAFF TAB Subset Sheets: 03 of 06	Project No./Code NHPP 0931-033 23327 Sheet Number 103
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TABULATION OF SIGNS

SIGN NO.	STATION	SIGN CODE	LEGEND	DIRECTION	SIGN STRUCTURE	SIGN PANEL SIZE			BACKGROUND COLOR	SIGN PANEL			REMOVE GROUND SIGN	REMOVE SIGN PANEL	RESET GROUND SIGN	SIGN STEEL POST 2.5" RD 80 (Post&Slipbase)			COMMENTS			
						W"	x	H"		CLASS I	CLASS II	CLASS III				EA	EA	EA		EA		
										SF	SF	SF								10'	12'	14'
						614-00011	614-00012	614-00013		202-00810	202-00821	210-00810				614-01583						
SH 93																						
80	190+76	R3-7R	RLMTR	NB		36	36	White		9		1				1						
81	191+64	M3-1	North	NB		24	12	White	2			1										
82	191+64	11-5a(SH 93)	SH 93	NB		24	24	White	4								1					
83	192+80	R2-1(45)	45 MPH	SB		36	48	White		12		1					1					
84	194+41	R3-7R	RLMTR	NB		36	36	White		9		1				1						
85	195+87	R3-7R	RLMTR	SB		36	36	White		9		1				1						
86	199+65	R2-1(45)	45 MPH	SB		36	48	White		12		1					1					
87	200+58	R3-7R	RLMTR	SB		36	36	White		9		1				1						
88	203+81	R2-1(55)	55 MPH	NB		36	48	White		12		1					1					
89	204+86	R3-2L	No Left Turn	NB		36	36	White		9		1				1						
90	205+04	R1-2	Yield	EB		36	36	Red		9		1				1						
91	205+81	R3-2L	No Left Turn	SB		36	36	White		9		1				1						
92	206+22	R3-7R	RLMTR	SB		36	36	White		9		1				1						
93	206+98	W3-5(45)	45 MPH Ahead	SB		36	36	Yellow		9		1				1						
94	207+19	R7-1	No Parking Any Time	NB		12	18	White	2			1				1						
95	207+19	R7-201	Tow-Away Zone	NB		12	6	White	1													
96	207+69	R3-7R	RLMTR	SB		36	36	White		9		1				1						
97	209+69	R7-1	No Parking Any Time	NB		12	18	White	2			1				1						
98	209+69	R7-201aP	Tow-Away Zone	NB		12	6	White	1													
99	210+37	R3-2L	No Left Turn	WB		36	36	White		9		1				1						
100	210+75	R52-7A	Truckers / Engine Brake	SB		36	48	White		12		1						1				
101	210+75	Special	Up To \$400 Fine	SB		36	24	White		6									1			
102	211+21	R3-7R	RLMTR	SB		36	36	White		9		1				1						
103	211+30	R7-1	No Parking Any Time	NB		12	18	White	2			1				1						
104	211+30	R7-201aP	Tow-Away Zone	NB		12	6	White	1													
105	212+97	R7-1	No Parking Any Time	NB		12	18	White	2			1				1						
106	212+97	R7-201aP	Tow-Away Zone	NB		12	6	White	1													
107	214+18	R3-7R	RLMTR	SB		36	36	White		9		1				1						
108	215+19	W11-3	Deer	NB		48	48	Yellow		16		1					1					
109	215+60	R7-1	No Parking Any Time	NB		12	18	White	2			1				1						
110	215+60	R7-201	Tow-Away Zone	SB		12	6	White	1													
111	224+31	R2-1(55)	55 MPH	NB		36	48	White		12		1					1					
112	227+38	W14-3	No Passing Zone	NB		48	48	Yellow		16		1					1					
113	235+18	W14-3	No Passing Zone	SB		48	48	Yellow		16		1					1					
114	256+18	W14-3	No Passing Zone	NB		48	48	Yellow		16		1					1					
115	263+45	R2-1(55)	55 MPH	SB		36	48	White		12		1					1					
116	227+79	R3-7R	RLMTR	SB		36	36	White		9		1				1						
117	276+16	D3-2(58th)	58th Ave Next Signal	NB		84	36	Green		21		1				2						
118	276+78	W3-3	Signal Ahead	NB		36	36	Yellow		9		1				1						
119	276+78	W13-1P(45)	45 MPH	NB		24	24	Yellow		4												
SHEET TOTALS										21	302	0	32	0	0	22	10	3				

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							Void:		Sheet Subset: TRAFF TAB		Subset Sheets: 04 of 06		Sheet Number 104	

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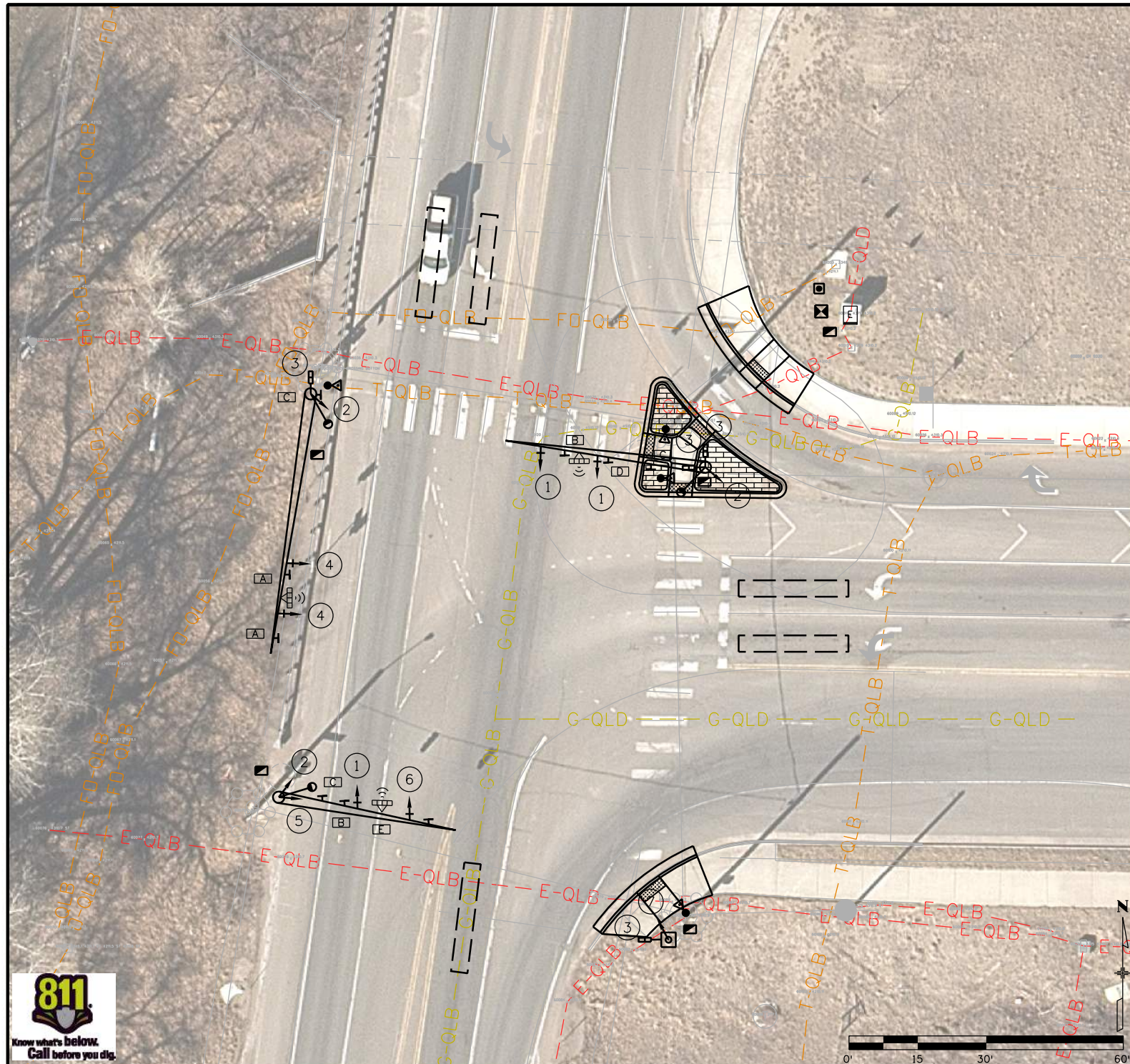
TABULATION OF SIGNS

SIGN NO.	STATION	SIGN CODE	LEGEND	DIRECTION	SIGN STRUCTURE	SIGN PANEL SIZE			BACKGROUND COLOR	SIGN PANEL			REMOVE GROUND SIGN	REMOVE SIGN PANEL	RESET GROUND SIGN	SIGN STEEL POST 2.5" RD 80 (Post&Slipbase)			COMENTS
						W"	x	H"		CLASS I	CLASS II	CLASS III				EA			
										SF	SF	SF	EA	EA	EA	10'	12'	14'	
						614-00011	614-00012	614-00013		202-00810	202-00821	210-00810	614-01583						
	SH 93																		
120	278+96	R3-7R	RLMTR	NB		36	36	White		9		1				1			
121	282+90	R3-7R	RLMTR	NB		36	36	White		9		1				1			
122	283+60	R10-27a	Left Turn Yield	SB	093A003035D	30	36	White	8										
123	283+60	R3-5a	Thru Only	SB	093A003035D	30	36	White	8										
124	284+19	R3-5L	Left Only	WB	093A003035C	30	36	White	8										
125	284+19	R3-5L	Left Only	WB	093A003035C	30	36	White	8										
126	284+51	R3-5a	Thru Only	NB	093A003035B	30	36	White	8										
127	284+51	R3-5R	Right Only	NB	093A003035B	30	36	White	8										
SHEET TOTALS									48	18		2	0	0	2	0	0		
PROJECT TOTALS									256	767	0	70	3	2	43	32	6		

New signs on new signal mast arm; refer to traffic signal plans for more information.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022 File Name: 23327_TRAFF_TAB 5.dgn Horiz. Scale: 1:1 Vert. Scale: As Noted	Sheet Revisions Date: Comments Init.	Colorado Department of Transportation  425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	TABULATION OF SIGNING Designer: AF Detailer: AM Sheet Subset: TRAFF TAB Subset Sheets: 05 of 06	Project No./Code NHPP 0931-033 23327 Sheet Number 105
				JDS		

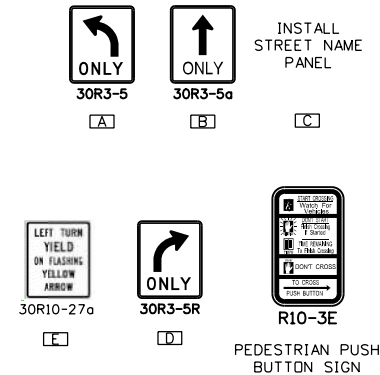
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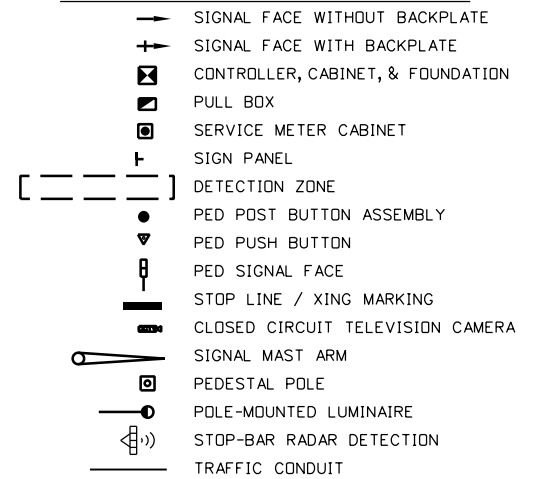
NOTES:

1. THE LOCATION OF TRAFFIC SIGNAL EQUIPMENT INCLUDING CONTROLLER CABINETS, POLES, AND PULL BOXES WITHIN CDDT ROW, SHALL BE FIELD VERIFIED WITH CDDT R1 TRAFFIC SIGNAL ENGINEER PRIOR TO CONSTRUCTION. SIGNAL DETECTION SHALL BE FIELD VERIFIED WITH THE VENDOR AND CDDT REGION 1 TRAFFIC ENGINEER PRIOR TO CONSTRUCTION.
2. ALL SIGNAL DETECTION SHOWN ON PLANS IS FOR ILLUSTRATIVE PURPOSES ONLY. IT IS ESTIMATED TO INSTALL THREE NEW STOP BAR DETECTIONS AND RESET TWO EXISTING ADVANCED DETECTIONS.
3. TRAFFIC SIGNAL POLES SHALL BE A MINIMUM OF 40' IN HEIGHT FROM THE FINISHED GRADE. TRAFFIC SIGNAL POLES SHALL BE HOT DIP GALVANIZED STEEL.
4. MISCELLANEOUS RESETS OF EQUIPMENT ON THE MAST ARMS AND POLES WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE WORK.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TRAFFIC SIGNAL OPERATIONS DURING CONSTRUCTION.
6. STOP BAR DETECTION ZONES ARE SHOWN ON THE PLANS. ADVANCED DETECTION ZONES SHALL BE 100' BEHIND STOP BAR DETECTION ZONES (TYPICAL ALL LANES).

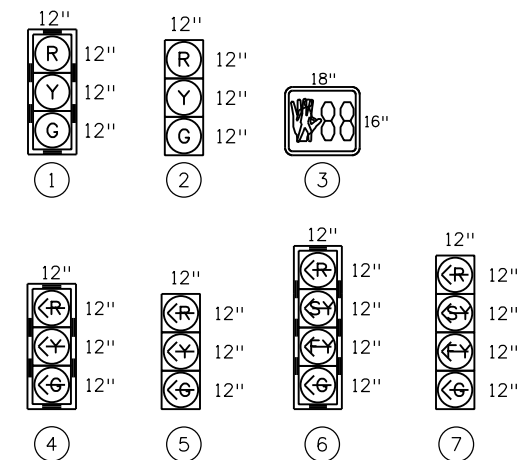
SIGN DETAILS



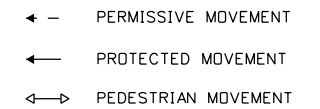
PROPOSED SIGNAL LEGEND



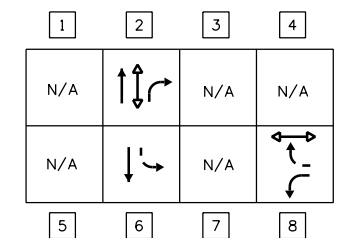
SIGNAL FACE DETAILS



PHASING DIAGRAM LEGEND

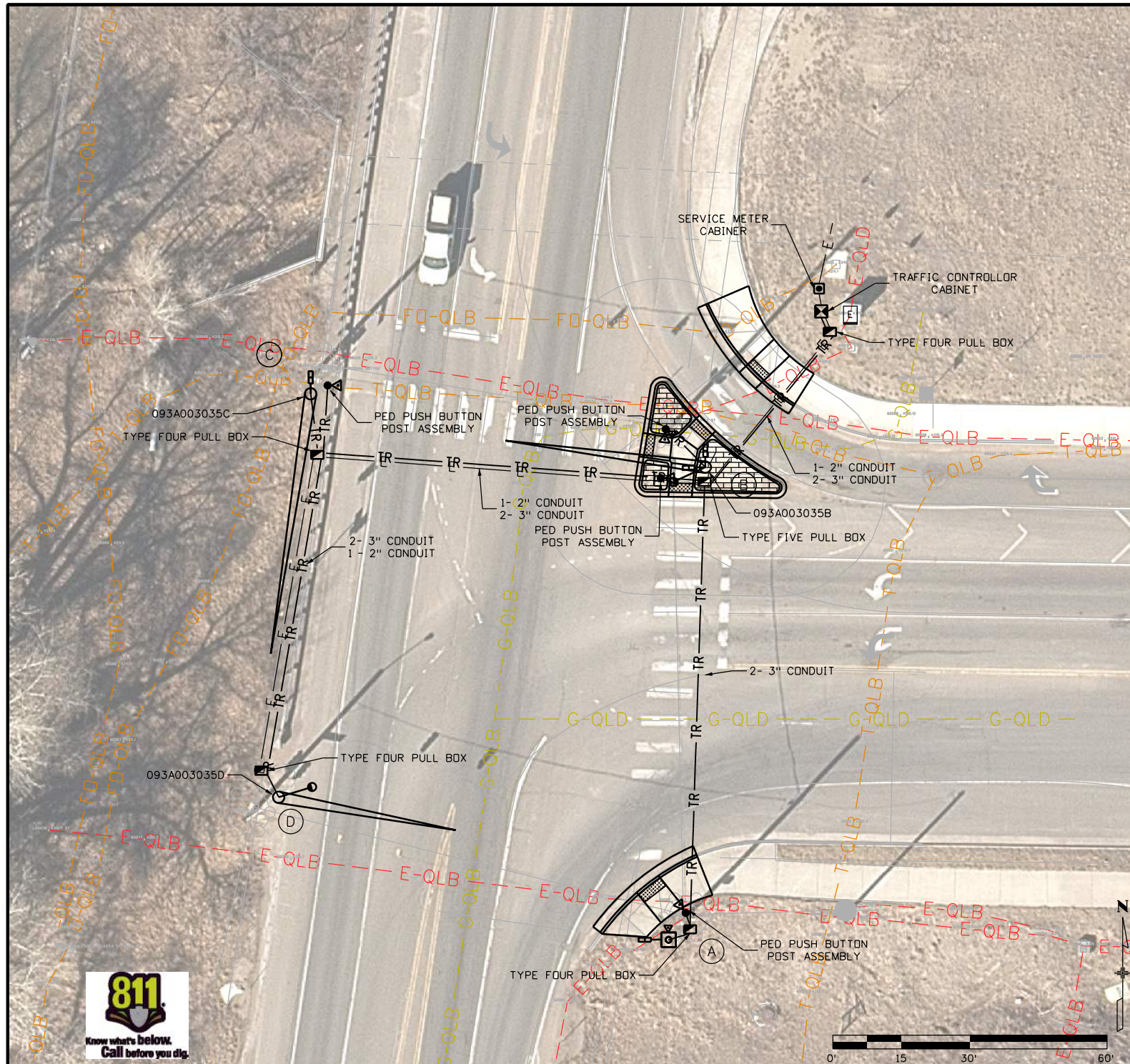


PHASING DIAGRAM



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	File Name: 23227 DES_SignalPlan.dgn	Date:	Comments	Init.						NHPP 0931-033	
	Horiz. Scale: 1:30 Vert. Scale: As Noted									23327	
					425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951	Revised:	Designer: AF	Structure Numbers	Sheet Number 107		
					Region 1	Void:	Detailer: AF	Subset Sheets: 1 of 2			

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NOTES:

1. UTILITIES SHOWN ON THIS PLAN SHEET ARE FOR INFORMATION ONLY, SEE UTILITY PLAN SUBSET FOR SUBSURFACE UTILITY ENGINEERING INFORMATION.
2. TRAFFIC SIGNAL POLE LOCATION WILL BE FIELD VERIFIED WITH CDOT TRAFFIC SIGNAL ENGINEER PRIOR TO INSTALLATION AND LOCATIONS MAY CHANGE DUE TO SITE RESTRICTIONS.
3. SEE SIGNAL PLAN NOTES SHEET FOR ADDITIONAL NOTES AND INFORMATION REGARDING SIGNAL PLANS.

PROPOSED SIGNAL LEGEND

- SIGNAL FACE WITHOUT BACKPLATE
- SIGNAL FACE WITH BACKPLATE
- CONTROLLER, CABINET, & FOUNDATION
- PULL BOX
- SERVICE METER CABINET
- SIGN PANEL
- DETECTION ZONE
- PULL BOX (SPECIAL)
- PED PUSH BUTTON POST ASSEMBLY
- PED SIGNAL FACE
- STOP LINE / XING MARKING
- CLOSED CIRCUIT TELEVISION CAMERA
- SIGNAL MAST ARM
- PEDESTAL POLE
- POLE-MOUNTED LUMINAIRE
- STOP-BAR RADAR DETECTION
- TRAFFIC CONDUIT

TRAFFIC SIGNAL POLE SCHEDULE

POLE NUMBER	A	B	C	D
LOCATION	SE	NE	NW	SW
DIA./DEPTH	18"/ 5FT	36"/ 19FT	48"/ 21FT	36"/ 19FT
MAST ARM LENGTH	-	45'	60'	40'
STANDARD	-	S-614-40A	S-614-40	S-614-40A
STRUCTURE NUMBER	-	093A003035B	093A003035C	093A003035D

TABULATION OF SIGNAL ITEMS

ALL QUANTITIES CARRIED TO THE SUMMARY OF TRAFFIC ENGINEERING ITEMS

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1
210-00473	RESET CCTV CAMERA	EA	1
210-00845	RESET TRAFFIC SIGNAL CONTROLLER	EA	1
210-00882	RESET TRAFFIC SIGNAL VEHICLE DETECTOR	EA	2
503-00018	DRILLED SHAFT 18"	LF	5
503-00036	DRILLED SHAFT 36"	LF	38
503-00048	DRILLED SHAFT 48"	LF	21
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	115
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	420
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	100
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	275
613-07004	TYPE FOUR PULL BOX	EA	4
613-07005	TYPE FIVE PULL BOX	EA	1
613-10000	WIRING	LS	1
613-13008	LUMINAIRE (LED) (8000 LUMENS)	EA	3
613-80130	SERVICE METER CABINET	EA	1
614-00011	SIGN PANEL (CLASS 1)	SF	48
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EA	4
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	9
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12)	EA	2
614-72855	PEDESTRIAN PUSH BUTTON	EA	4
614-72860	PEDESTRIAN PUSH BUTTON POST ASSEMBLY)	EA	4
614-72863	TRAFFIC SIGNAL CONTROLLER CABINET	EA	1
614-72885	TRAFFIC SIGNAL VEHICLE DETECTOR (STOP BAR)	EA	3
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40 FOOT MAST ARM)	EA	1
614-81145	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-45 FOOT MAST ARM)	EA	1
614-81160	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-60 FOOT MAST ARM)	EA	1
614-84000	TRAFFIC SIGNAL PEDESTAL POLE STEEL	EA	1

Print Date: 10/27/2022

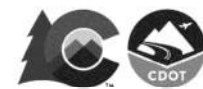
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Horiz. Scale: 1:30 Vert. Scale: As Noted

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



425 A Corporate Circle
Golden, CO 80401
Phone: 720-497-6959
FAX: 720-497-6951

Region 1

JDS

As Constructed

No Revisions:

Revised:

Void:

**SH-93 & W. 58TH AVE
SIGNAL PLAN**

Designer:	AF	Structure Numbers	093A003035B-D
Detailer:	AF	Subset Sheets:	2 of 2

Project No./Code

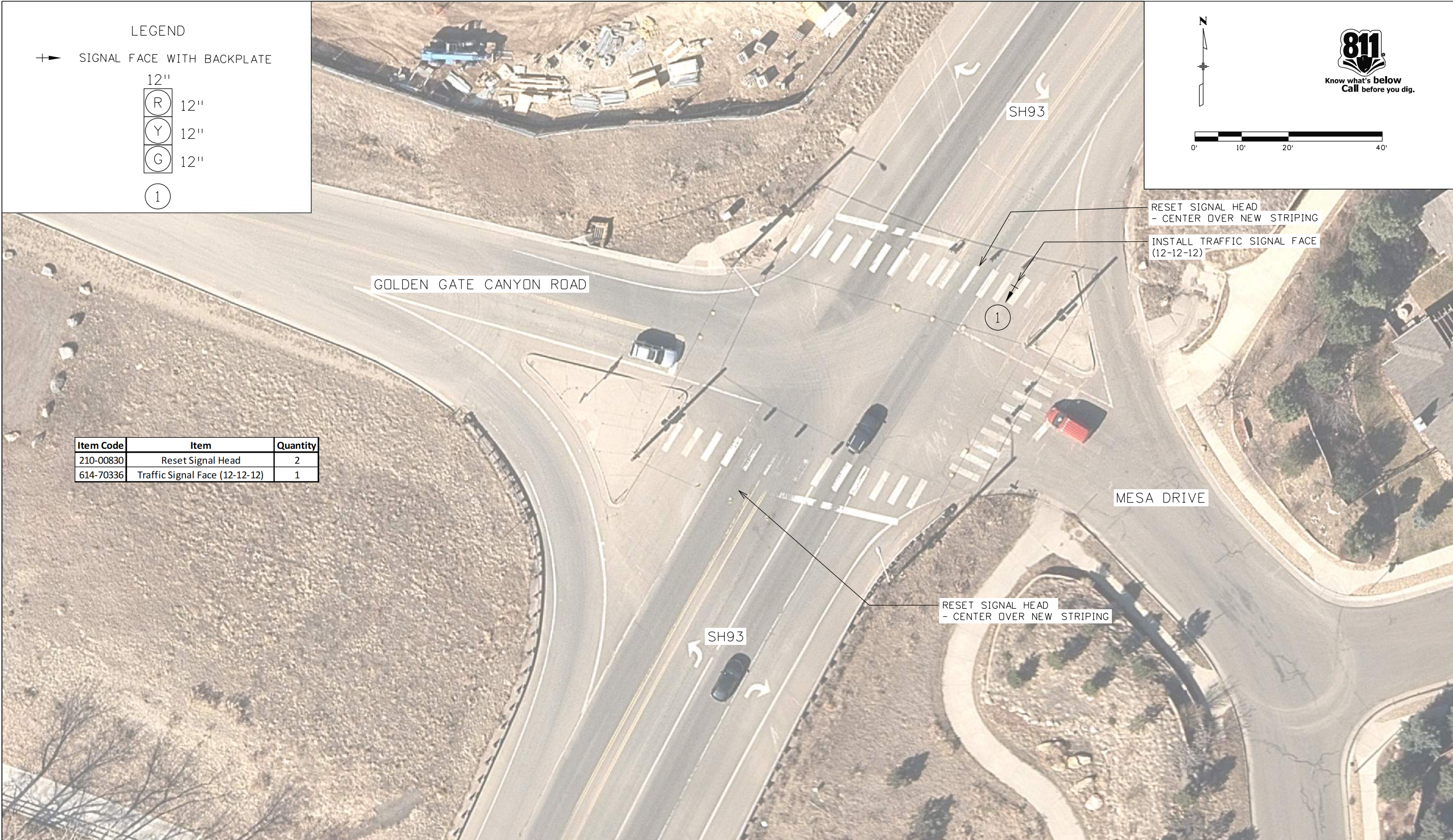
NHPP 0931-033

23327

Sheet Number 108

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LEGEND

- + SIGNAL FACE WITH BACKPLATE
- 12" (R) 12"
- 12" (Y) 12"
- 12" (G) 12"
- (1)

811
Know what's below
Call before you dig.

Item Code	Item	Quantity
210-00830	Reset Signal Head	2
614-70336	Traffic Signal Face (12-12-12)	1

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

Print Date: 8/15/2022	
File Name: 23327_TRAF_GOLDENGATE.dgn	
Horiz. Scale: 1:20	Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 425 A Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6959
 FAX: 720-497-6951
 Region 1 JDS

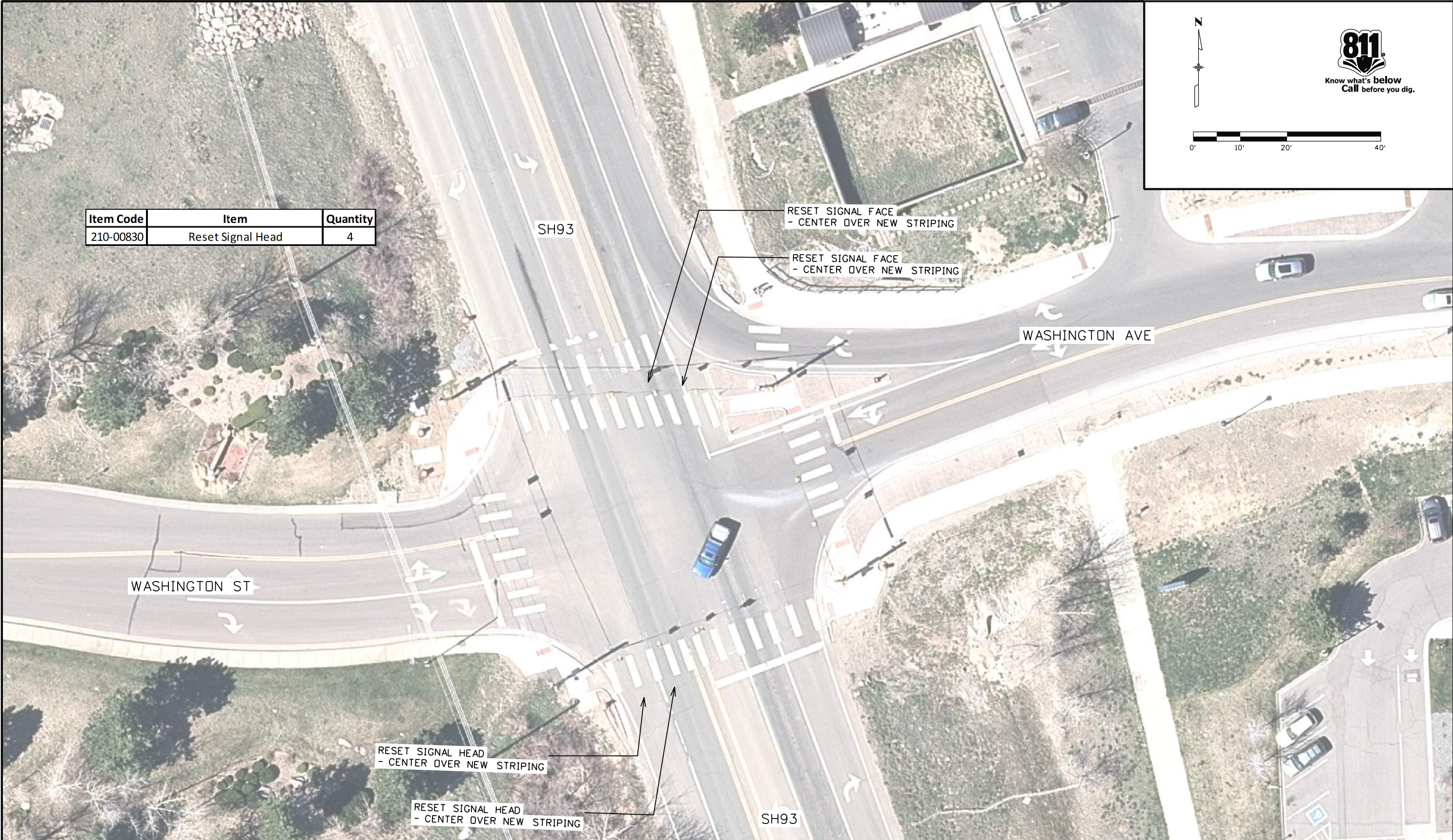
As Constructed
No Revisions:
Revised:
Void:

SH 93 AND GOLDEN GATE CANYON ROAD TRAFFIC IMPROVEMENTS	
Designer: AF	Structure Numbers
Detailer: AAM	
Sheet Subset: TRAFIMPROV	Subset Sheets: 01 of 04

Project No./Code	NHPP 0931-033
	23327
Sheet Number	109

Item Code	Item	Quantity
210-00830	Reset Signal Head	4

811
Know what's below
Call before you dig.




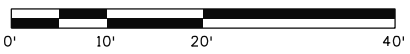
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/15/2022	Sheet Revisions			Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	SH 93 AND WASHINGTON DR TRAFFIC IMPROVEMENTS			Project No./Code
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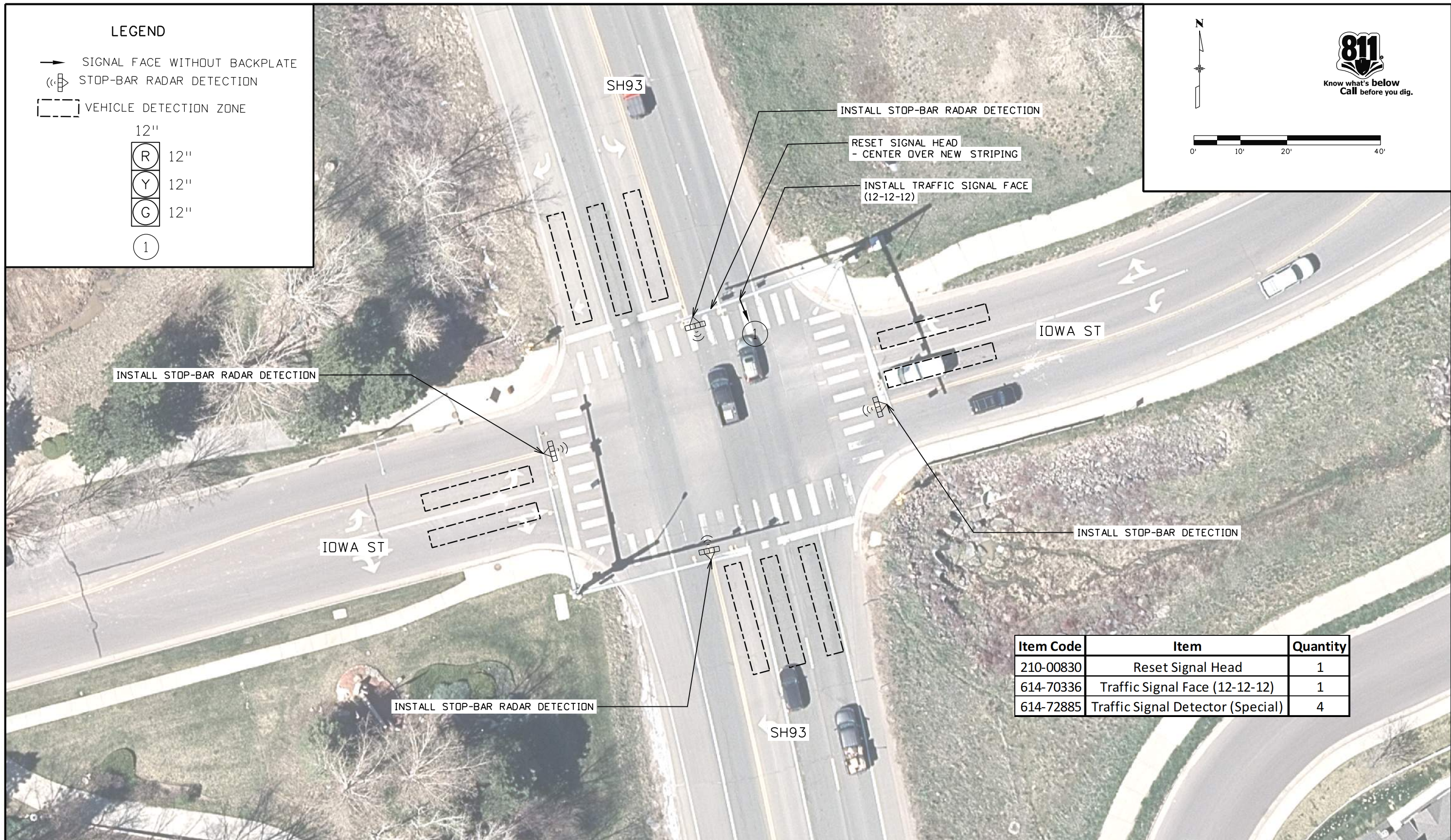
LEGEND

- SIGNAL FACE WITHOUT BACKPLATE
- ⊞ STOP-BAR RADAR DETECTION
- ⊞ VEHICLE DETECTION ZONE
- 12" (R) 12"
- 12" (Y) 12"
- 12" (G) 12"
- 1 (1)





811
Know what's below
Call before you dig.






Item Code	Item	Quantity
210-00830	Reset Signal Head	1
614-70336	Traffic Signal Face (12-12-12)	1
614-72885	Traffic Signal Detector (Special)	4

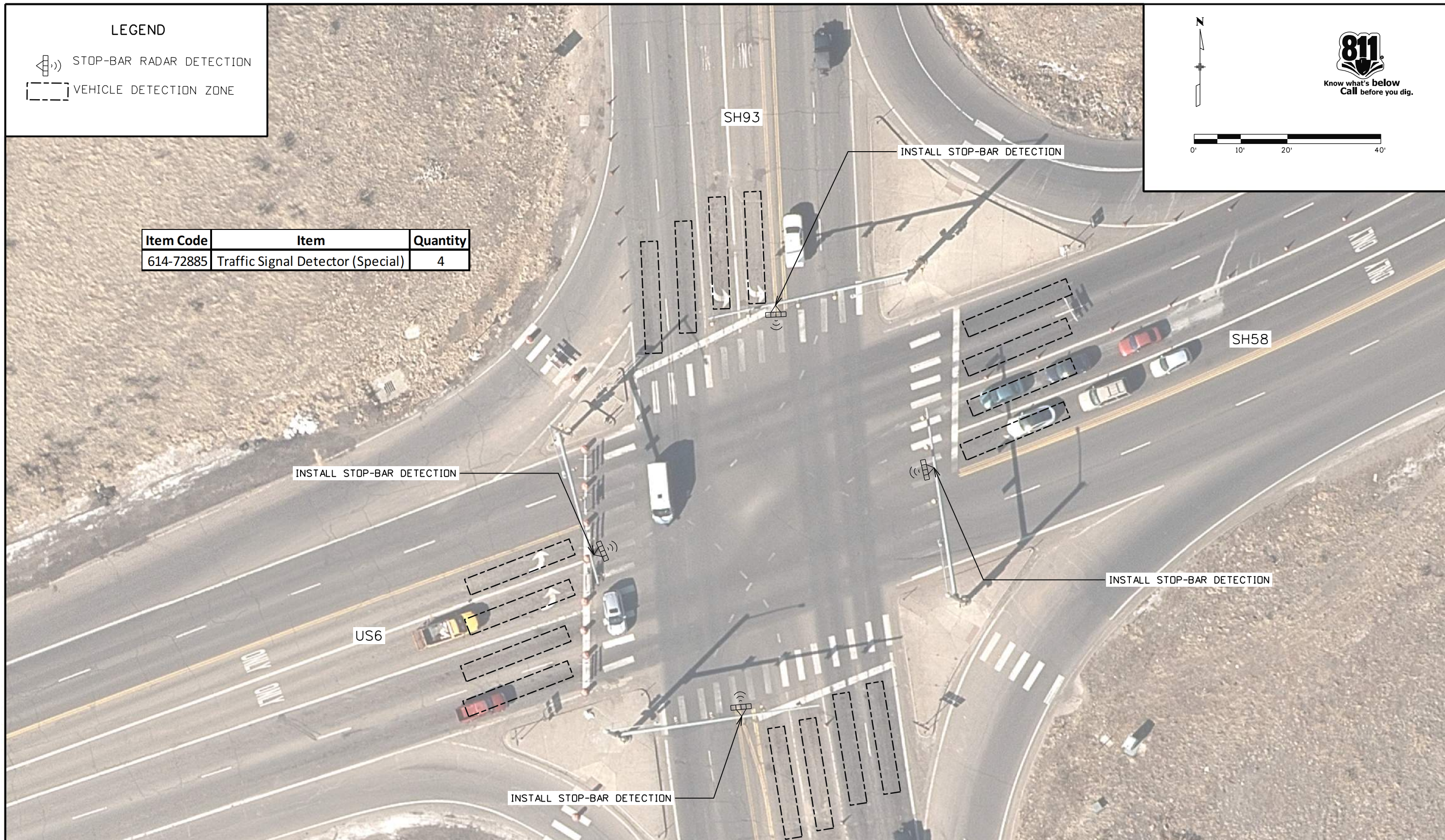
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	Date:	Comments	Init.															
  	JDS																	

LEGEND

-  STOP-BAR RADAR DETECTION
-  VEHICLE DETECTION ZONE

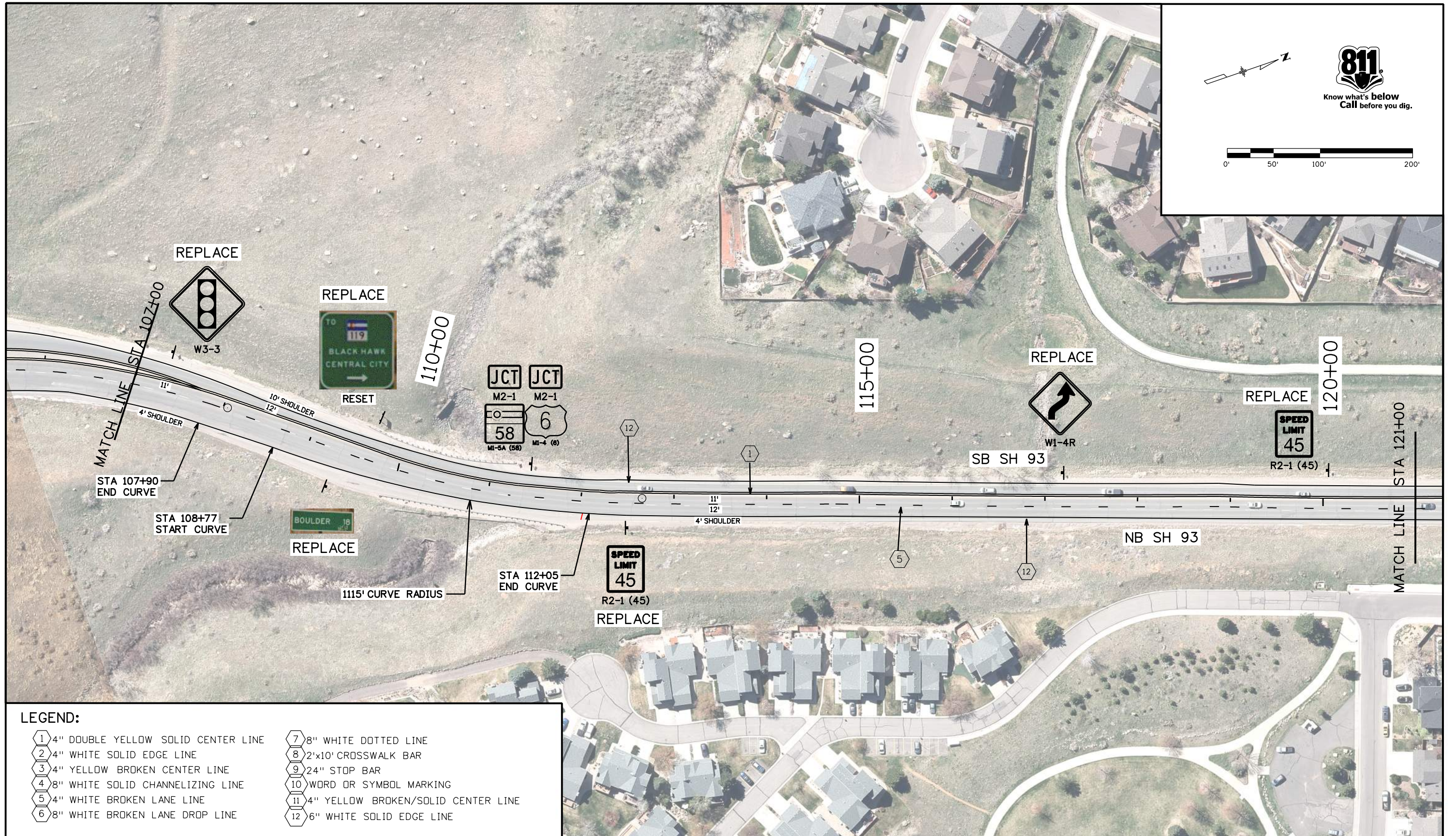
Item Code	Item	Quantity
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/15/2022		Sheet Revisions			Colorado Department of Transportation  425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed		SH 93 AND SH 58/US 6 TRAFFIC IMPROVEMENTS			Project No./Code	
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LEGEND:

- | | |
|--------------------------------------|---------------------------------------|
| 1 4" DOUBLE YELLOW SOLID CENTER LINE | 7 8" WHITE DOTTED LINE |
| 2 4" WHITE SOLID EDGE LINE | 8 2'x10' CROSSWALK BAR |
| 3 4" YELLOW BROKEN CENTER LINE | 9 24" STOP BAR |
| 4 8" WHITE SOLID CHANNELIZING LINE | 10 WORD OR SYMBOL MARKING |
| 5 4" WHITE BROKEN LANE LINE | 11 4" YELLOW BROKEN/SOLID CENTER LINE |
| 6 8" WHITE BROKEN LANE DROP LINE | 12 6" WHITE SOLID EDGE LINE |

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

Print Date: 10/25/2022
 File Name: 23327DES_SnS_02.dgn
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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

Region 1

425 A Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6959
 FAX: 720-497-6951

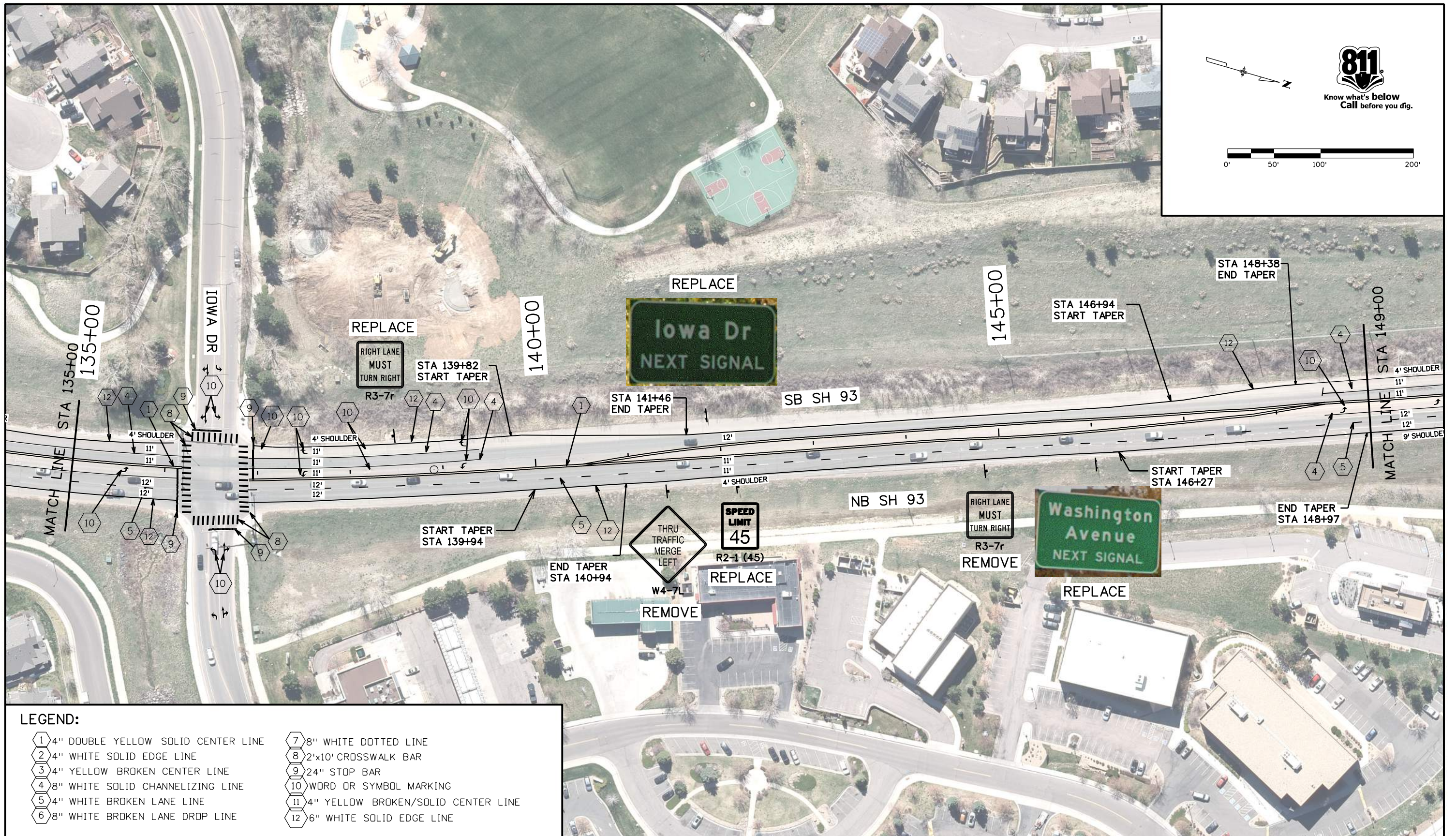
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As Constructed
No Revisions:
Revised:
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SIGNING & STRIPING PLANS			
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Sheet Subset:	S AND S	Subset Sheets:	02 of 14

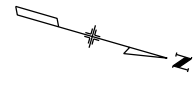
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23327
Sheet Number 114

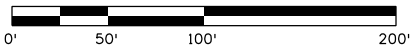
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811
Know what's below
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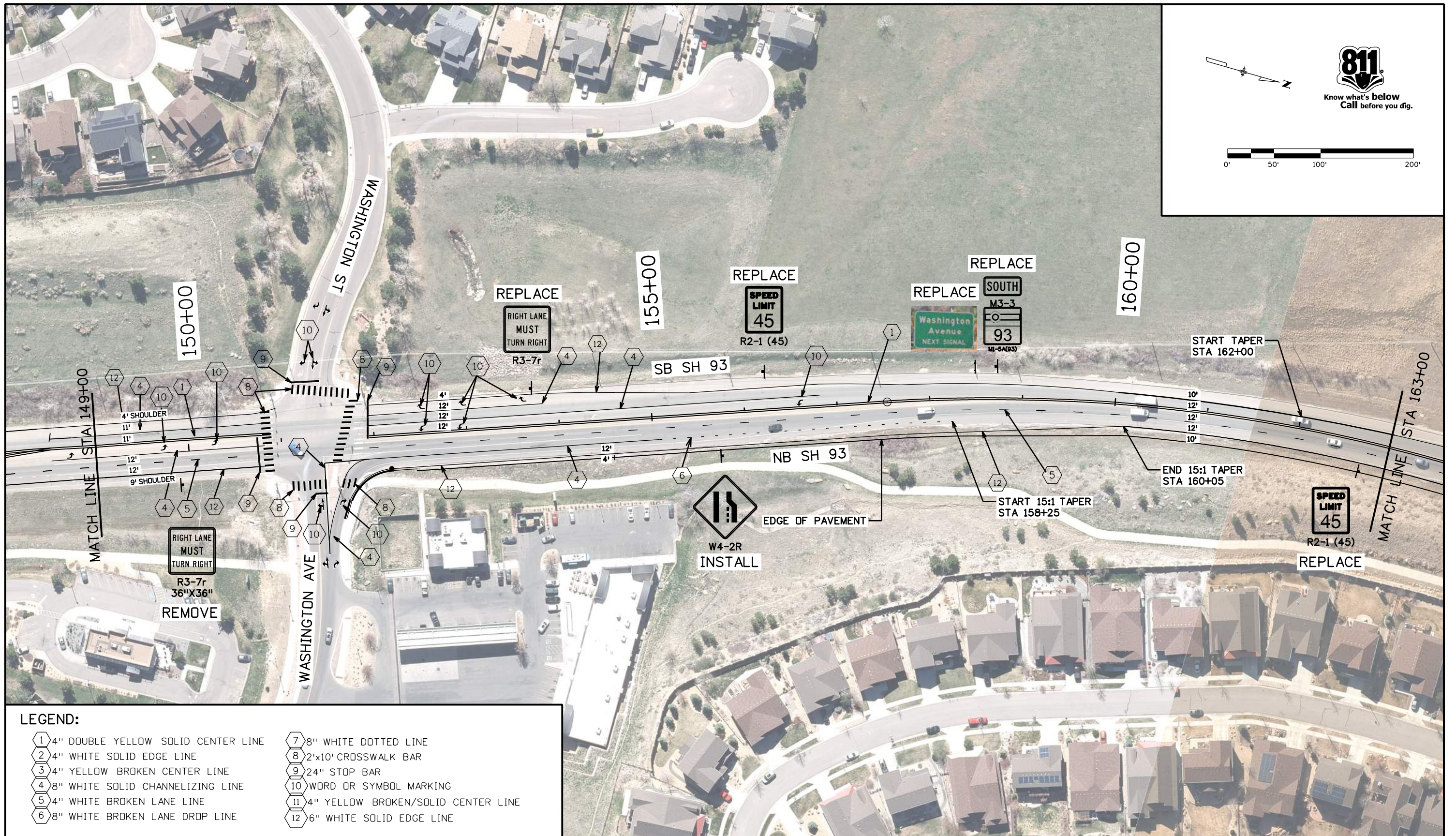


LEGEND:

1 4" DOUBLE YELLOW SOLID CENTER LINE	7 8" WHITE DOTTED LINE
2 4" WHITE SOLID EDGE LINE	8 2'x10' CROSSWALK BAR
3 4" YELLOW BROKEN CENTER LINE	9 24" STOP BAR
4 8" WHITE SOLID CHANNELIZING LINE	10 WORD OR SYMBOL MARKING
5 4" WHITE BROKEN LANE LINE	11 4" YELLOW BROKEN/SOLID CENTER LINE
6 8" WHITE BROKEN LANE DROP LINE	12 6" WHITE SOLID EDGE LINE

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022 File Name: 23327DES_SnS_04.dgn Horiz. Scale: 1:100.003 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.										Colorado Department of Transportation  425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	SIGNING & STRIPING PLANS STA 135+00 TO 149+00 Designer: AF Detailer: AF Sheet Subset: S AND S Subset Sheets: 04 of 14	Project No./Code NHPP 0931-033 23327 Sheet Number 116
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811
Know what's below
Call before you dig.

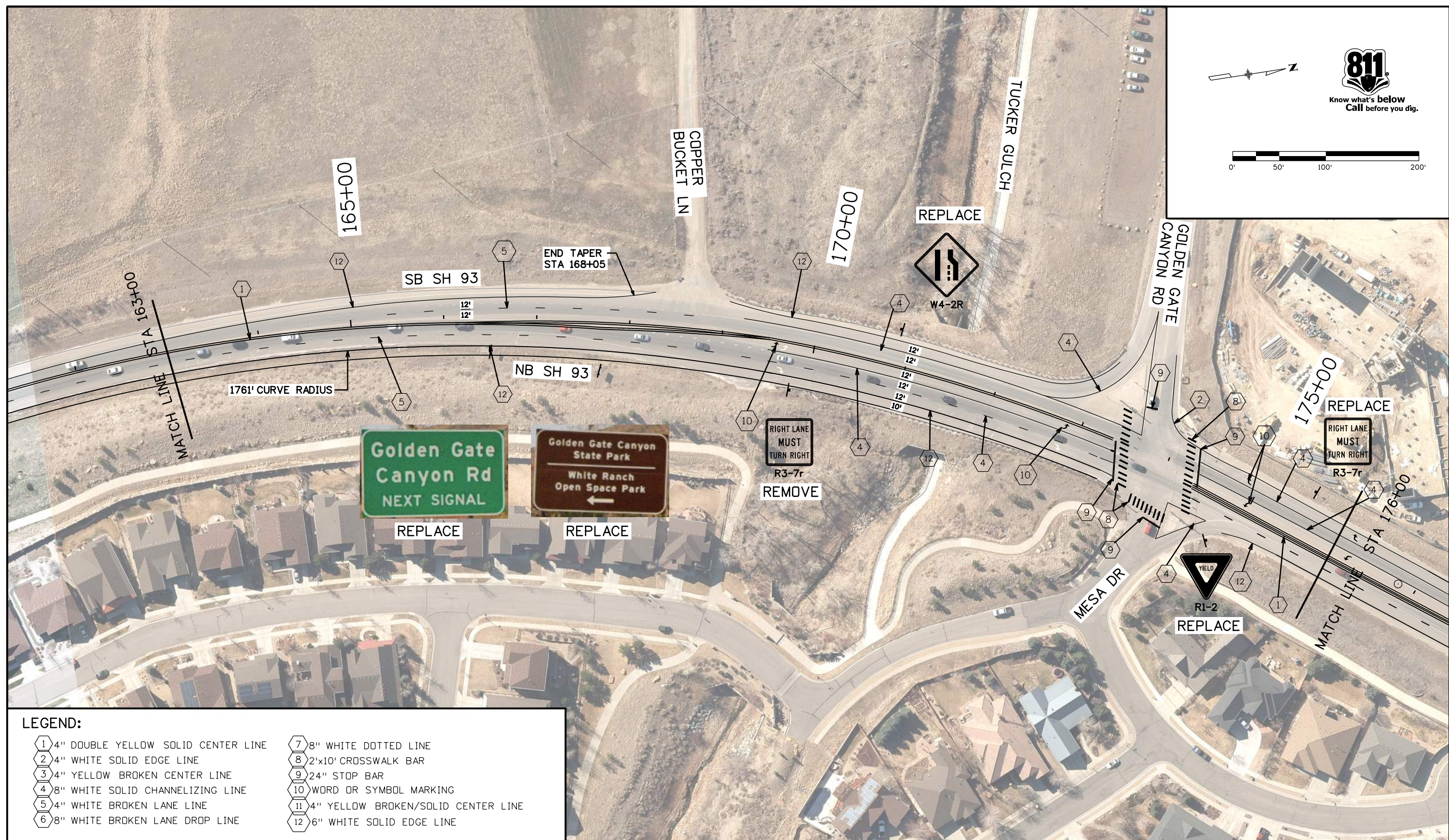
0' 50' 100' 200'

LEGEND:

1 4" DOUBLE YELLOW SOLID CENTER LINE	7 8" WHITE DOTTED LINE
2 4" WHITE SOLID EDGE LINE	8 2'x10' CROSSWALK BAR
3 4" YELLOW BROKEN CENTER LINE	9 24" STOP BAR
4 8" WHITE SOLID CHANNELIZING LINE	10 WORD OR SYMBOL MARKING
5 4" WHITE BROKEN LANE LINE	11 4" YELLOW BROKEN/SOLID CENTER LINE
6 8" WHITE BROKEN LANE DROP LINE	12 6" WHITE SOLID EDGE LINE

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022 File Name: 23327DES_SnS_05.dgn	Sheet Revisions	Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions:	SIGNING & STRIPING PLANS STA 149+00 TO 163+00	Project No./Code NHPP 0931-033													
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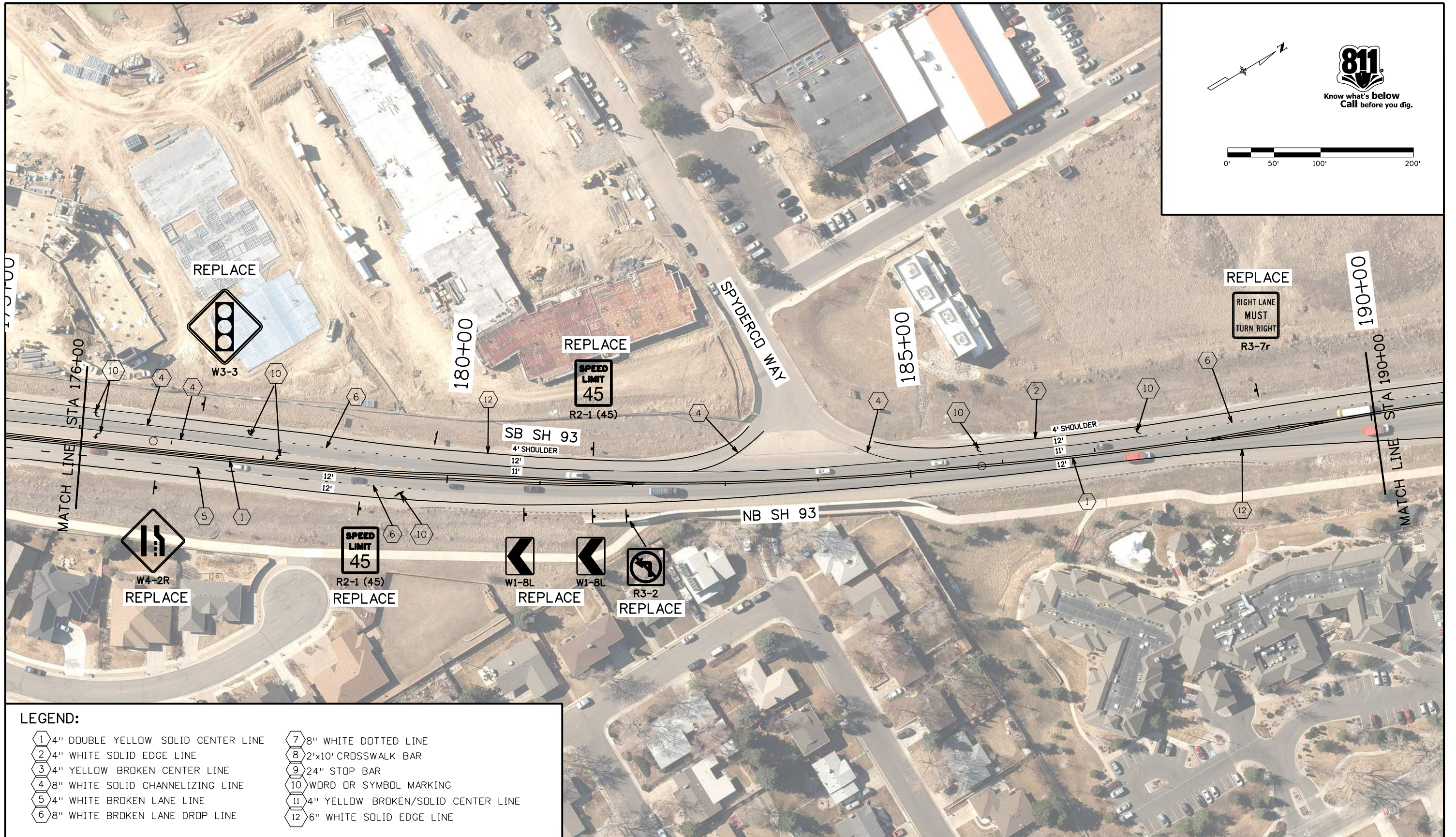


LEGEND:

1	4" DOUBLE YELLOW SOLID CENTER LINE	7	8" WHITE DOTTED LINE
2	4" WHITE SOLID EDGE LINE	8	2'x10' CROSSWALK BAR
3	4" YELLOW BROKEN CENTER LINE	9	24" STOP BAR
4	8" WHITE SOLID CHANNELIZING LINE	10	WORD OR SYMBOL MARKING
5	4" WHITE BROKEN LANE LINE	11	4" YELLOW BROKEN/SOLID CENTER LINE
6	8" WHITE BROKEN LANE DROP LINE	12	6" WHITE SOLID EDGE LINE

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022	Sheet Revisions			Colorado Department of Transportation Region 1	As Constructed No Revisions: Revised: Void:	SIGNING & STRIPING PLANS		Project No./Code NHPP 0931-033 23327 Sheet Number 118
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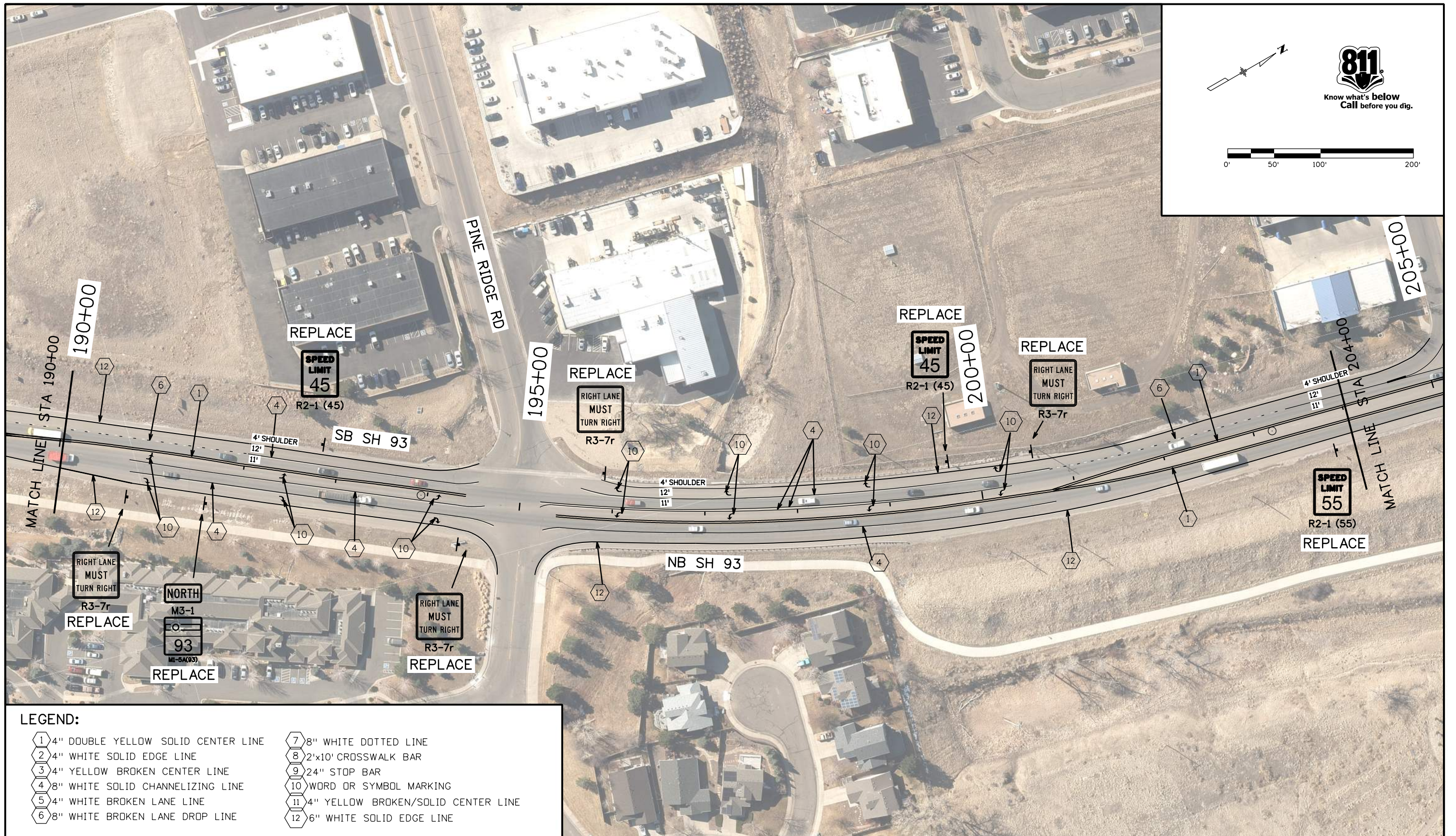


LEGEND:

- | | |
|---|---|
| <ul style="list-style-type: none"> 1 4" DOUBLE YELLOW SOLID CENTER LINE 2 4" WHITE SOLID EDGE LINE 3 4" YELLOW BROKEN CENTER LINE 4 8" WHITE SOLID CHANNELIZING LINE 5 4" WHITE BROKEN LANE LINE 6 8" WHITE BROKEN LANE DROP LINE | <ul style="list-style-type: none"> 7 8" WHITE DOTTED LINE 8 2'x10' CROSSWALK BAR 9 24" STOP BAR 10 WORD OR SYMBOL MARKING 11 4" YELLOW BROKEN/SOLID CENTER LINE 12 6" WHITE SOLID EDGE LINE |
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022 File Name: 23327DES_SnS_07.dgn Horiz. Scale: 1:100 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.										Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	SIGNING & STRIPING PLANS STA 176+00 TO 190+00 Designer: AF Detailer: AF Sheet Subset: S AND S Subset Sheets: 07 of 14	Project No./Code NHPP 0931-033 23327 Sheet Number 119
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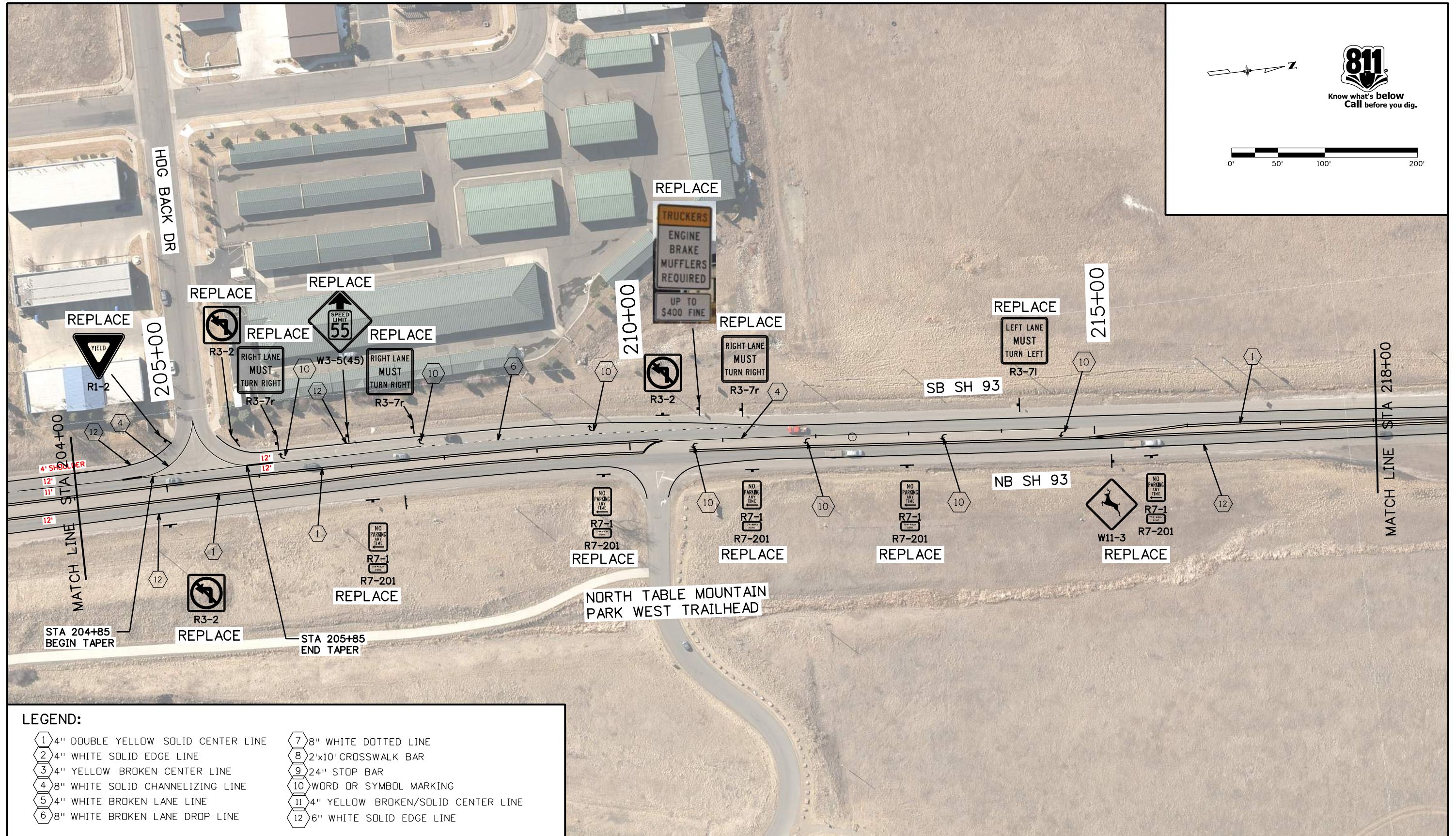
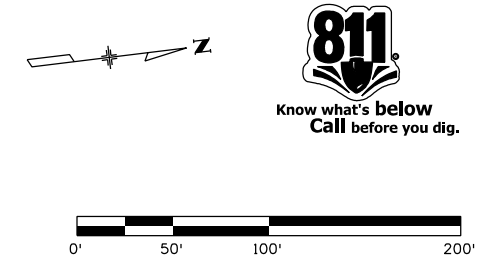


LEGEND:

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All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022 File Name: 23327DES_SnS_08.dgn Horiz. Scale: 1:100 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.										Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	SIGNING & STRIPING PLANS STA 190+00 TO 204+00 Designer: AF Detailer: AF Sheet Subset: S AND S Subset Sheets: 08 of 14	Project No./Code NHPP 0931-033 23327 Sheet Number 120
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LEGEND:


1 4" DOUBLE YELLOW SOLID CENTER LINE	7 8" WHITE DOTTED LINE
2 4" WHITE SOLID EDGE LINE	8 2'x10' CROSSWALK BAR
3 4" YELLOW BROKEN CENTER LINE	9 24" STOP BAR
4 8" WHITE SOLID CHANNELIZING LINE	10 WORD OR SYMBOL MARKING
5 4" WHITE BROKEN LANE LINE	11 4" YELLOW BROKEN/SOLID CENTER LINE
6 8" WHITE BROKEN LANE DROP LINE	12 6" WHITE SOLID EDGE LINE

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Print Date: 10/25/2022
 File Name: 23327DES_SnS_09.dgn
 Horiz. Scale: 1:100.003 Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



425 A Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6959
 FAX: 720-497-6951

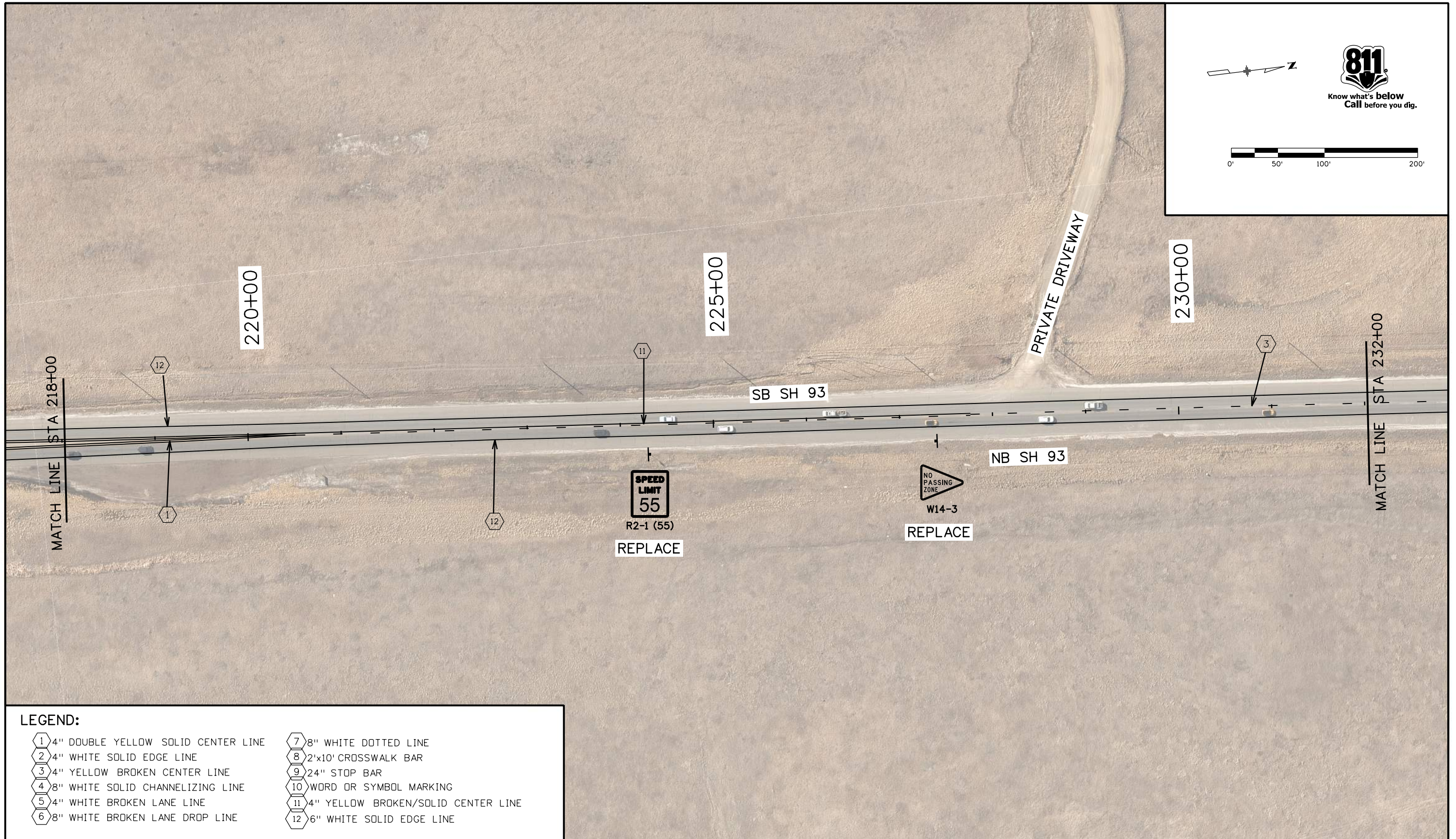
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As Constructed
 No Revisions:
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SIGNING & STRIPING PLANS STA 204+00 TO 218+00			
Designer:	AF	Structure Numbers	
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Sheet Subset:	S AND S	Subset Sheets:	09 of 14

Project No./Code
 NHPP 0931-033
 23327
 Sheet Number 121

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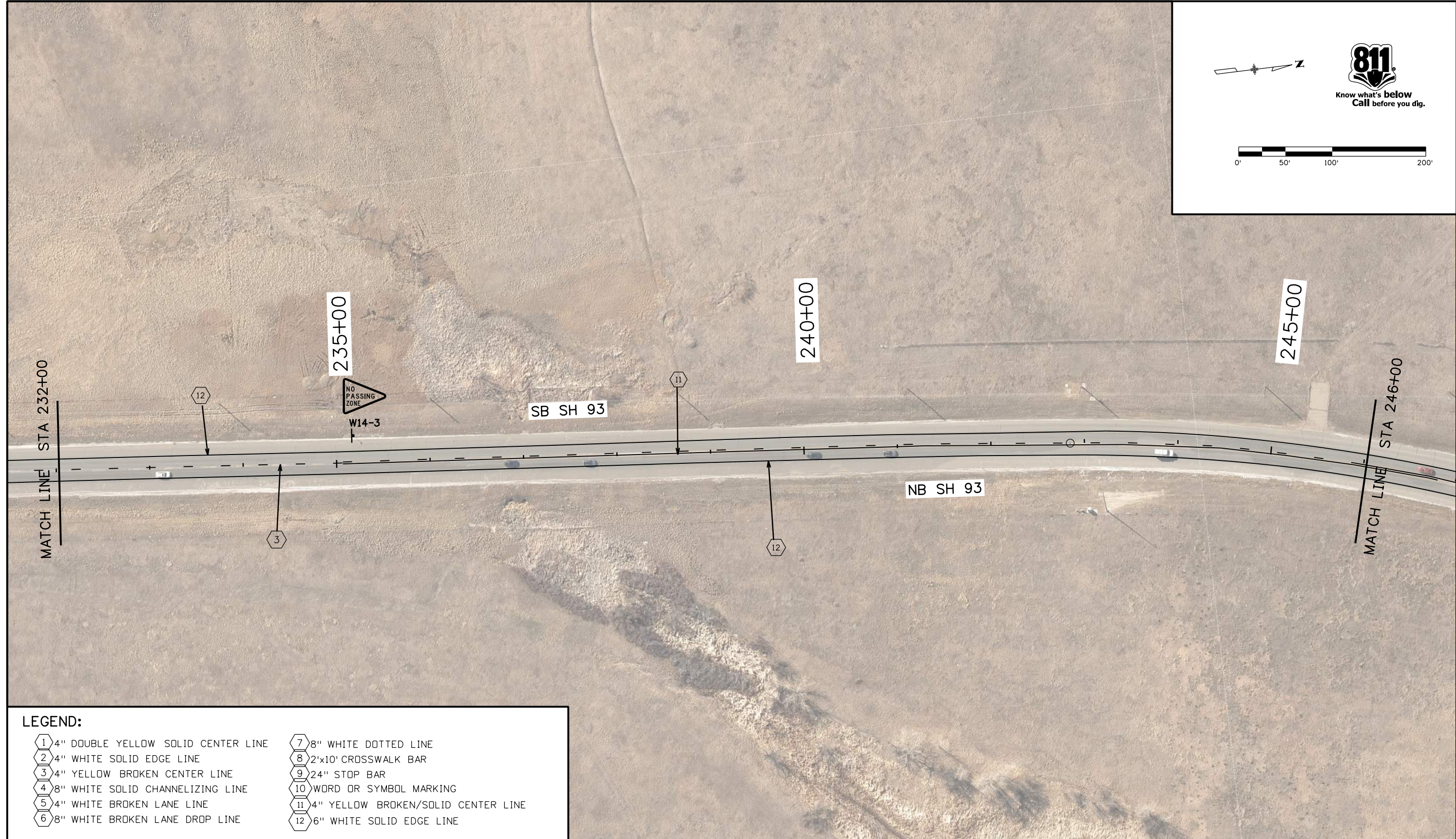
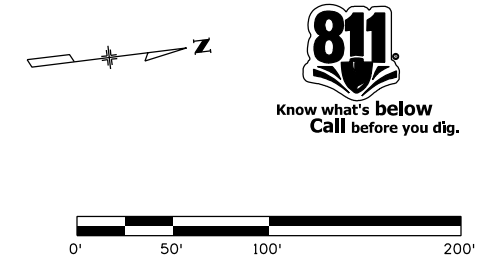


LEGEND:

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All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022	Sheet Revisions			Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed	SIGNING & STRIPING PLANS			Project No./Code
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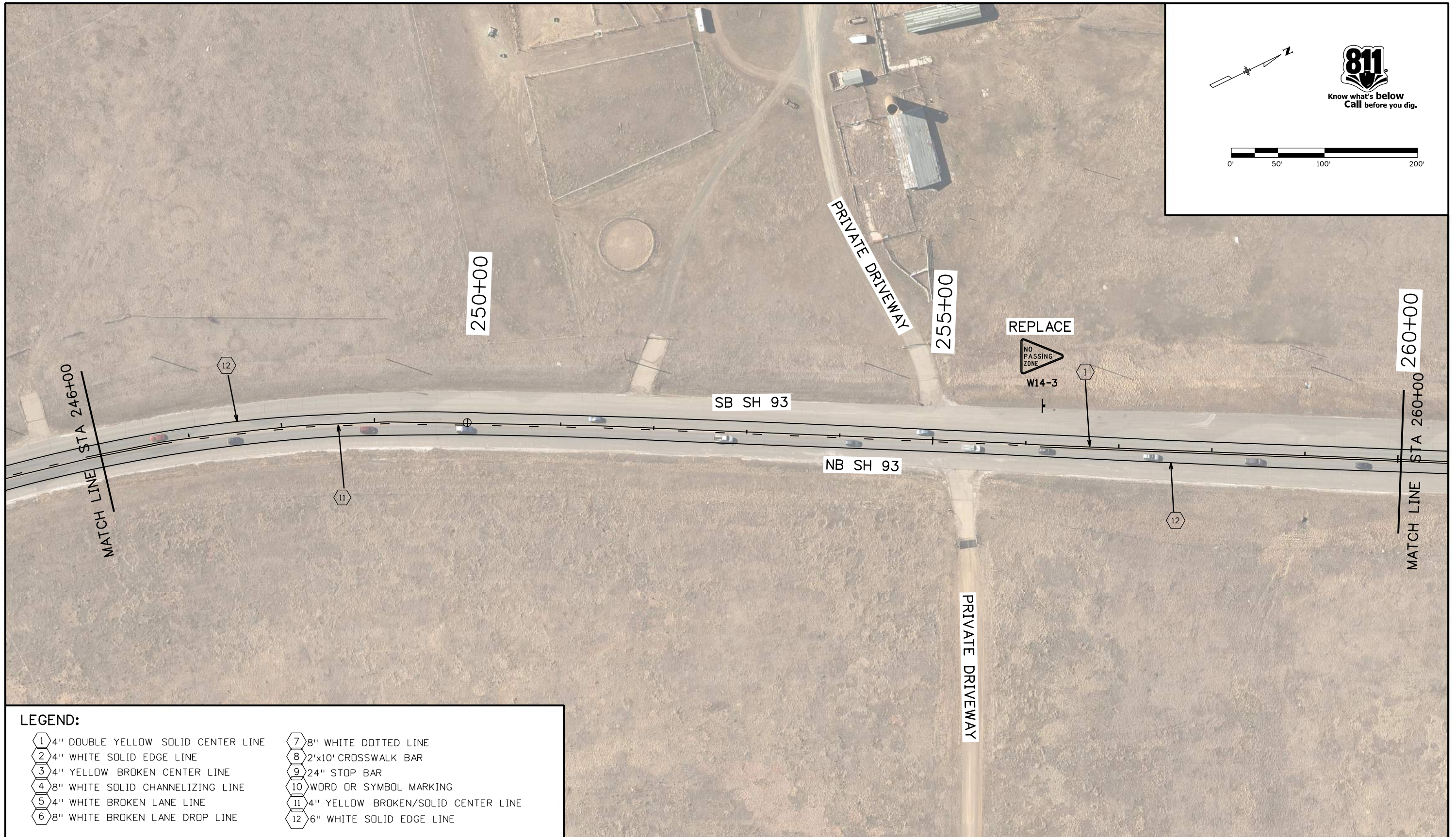


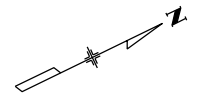

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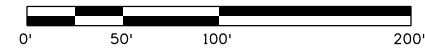
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2 4" WHITE SOLID EDGE LINE	8 2'x10' CROSSWALK BAR
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022	Sheet Revisions			Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed	SIGNING AND STRIPING PLANS		Project No./Code
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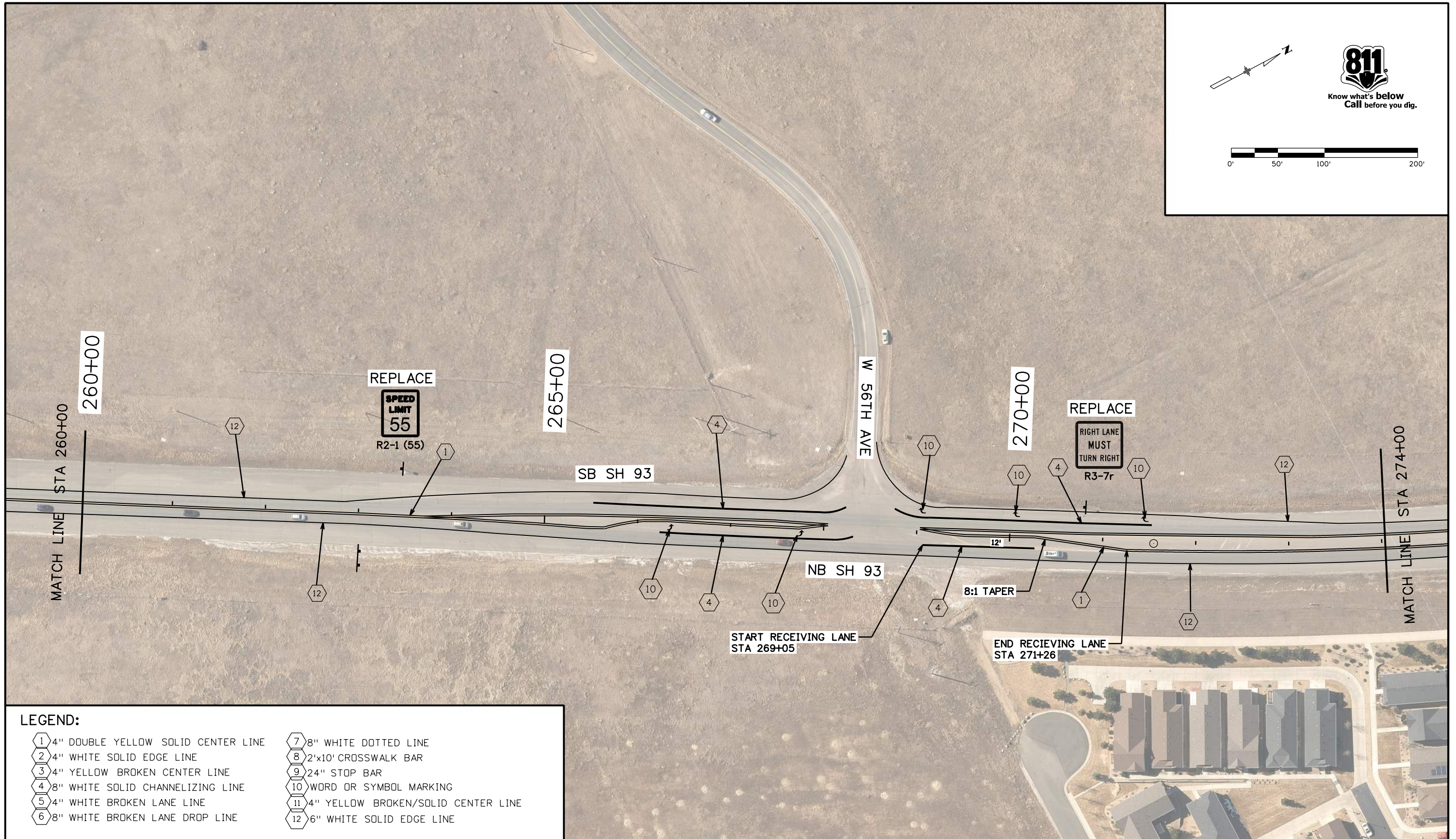


LEGEND:

<ul style="list-style-type: none"> 1 4" DOUBLE YELLOW SOLID CENTER LINE 2 4" WHITE SOLID EDGE LINE 3 4" YELLOW BROKEN CENTER LINE 4 8" WHITE SOLID CHANNELIZING LINE 5 4" WHITE BROKEN LANE LINE 6 8" WHITE BROKEN LANE DROP LINE 	<ul style="list-style-type: none"> 7 8" WHITE DOTTED LINE 8 2'x10' CROSSWALK BAR 9 24" STOP BAR 10 WORD OR SYMBOL MARKING 11 4" YELLOW BROKEN/SOLID CENTER LINE 12 6" WHITE SOLID EDGE LINE
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/26/2022 File Name: 23327DES_SnS_12.dgn Horiz. Scale: 1:100 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.										Colorado Department of Transportation  425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	JDS	As Constructed No Revisions: Revised: Void:	SIGNING & STRIPING PLANS STA 246+00 TO 260+00 Designer: AF Detailer: AF Sheet Subset: S AND S Subset Sheets: 12 of 14	Project No./Code NHPP 0931-033 23327 Sheet Number 124
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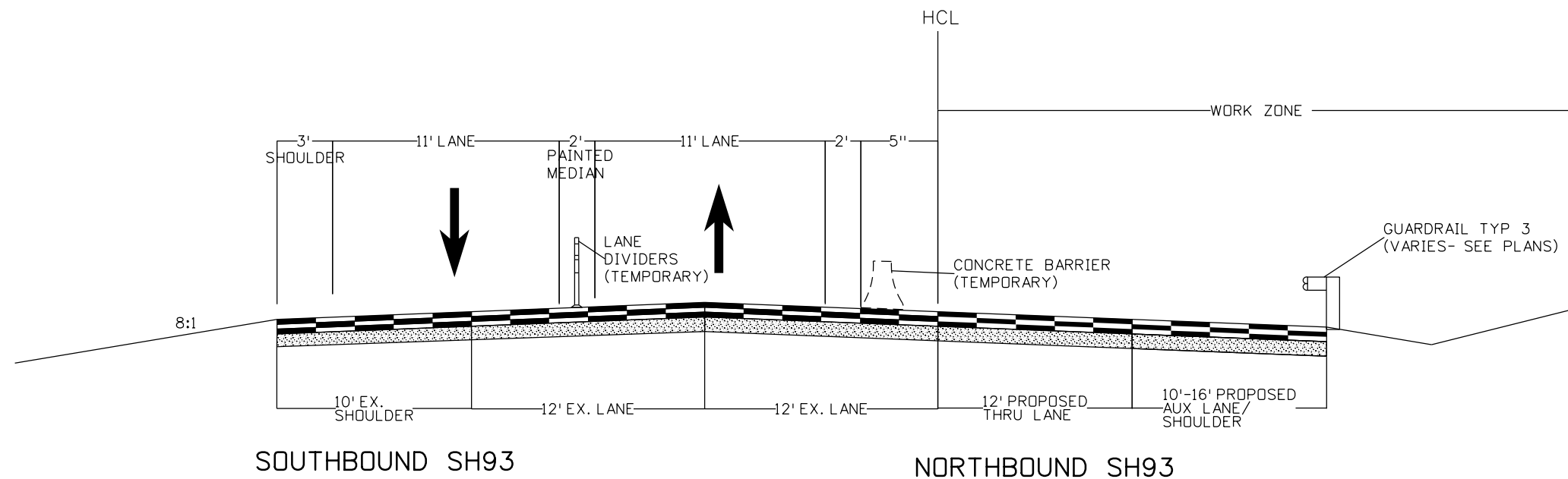


LEGEND:

<ul style="list-style-type: none"> 1 4" DOUBLE YELLOW SOLID CENTER LINE 2 4" WHITE SOLID EDGE LINE 3 4" YELLOW BROKEN CENTER LINE 4 8" WHITE SOLID CHANNELIZING LINE 5 4" WHITE BROKEN LANE LINE 6 8" WHITE BROKEN LANE DROP LINE 	<ul style="list-style-type: none"> 7 8" WHITE DOTTED LINE 8 2'x10' CROSSWALK BAR 9 24" STOP BAR 10 WORD OR SYMBOL MARKING 11 4" YELLOW BROKEN/SOLID CENTER LINE 12 6" WHITE SOLID EDGE LINE
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/25/2022 File Name: 23327DES_SnS_13.dgn Horiz. Scale: 1:100 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 30%;">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.										Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	JDS	As Constructed No Revisions: Revised: Void:	SIGNING AND STRIPING PLANS STA 260+00 TO 274+00 Designer: AF Detailer: AF Sheet Subset: S AND S Subset Sheets: 13 of 14	Project No./Code NHPP 0931-033 23327 Sheet Number 125
	Date:	Comments	Init.																

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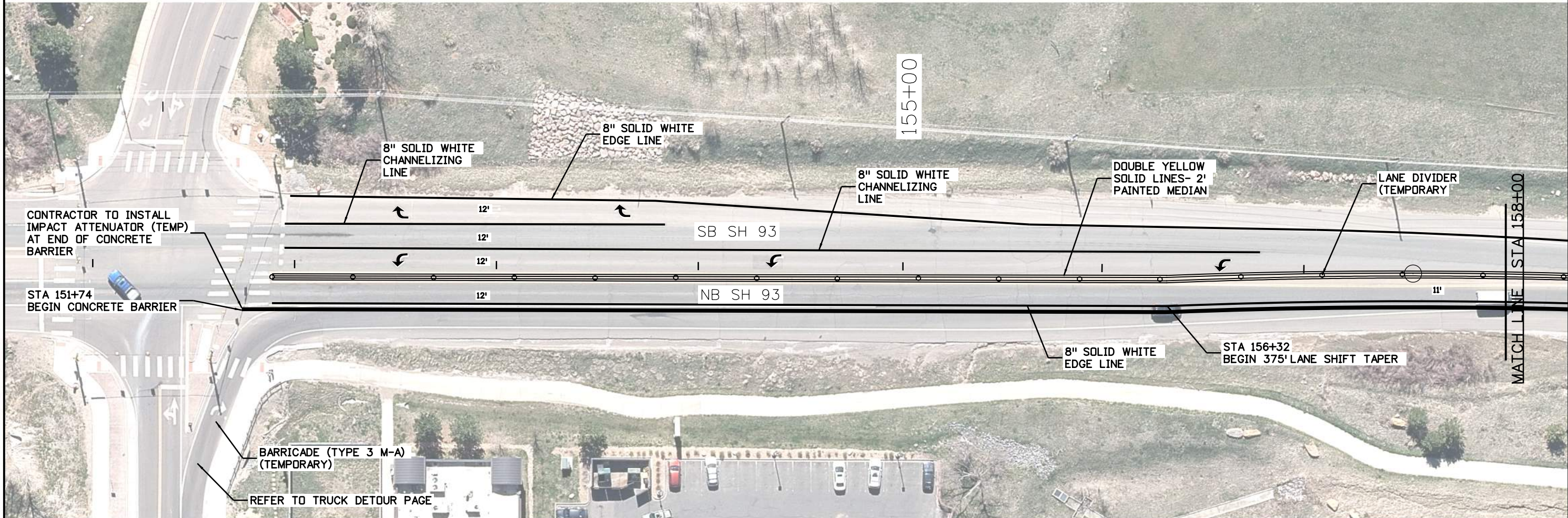
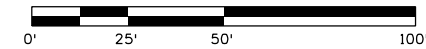
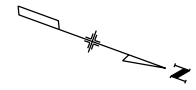
SOUTHBOUND SH93

NORTHBOUND SH93

TEMPORARY SH 93 PHASING
TYPICAL SECTION
STA 151+70 TO STA 169+50

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/4/2022	Sheet Revisions			Colorado Department of Transportation		As Constructed		SH 93 TRAFFIC CONTROL		Project No./Code	
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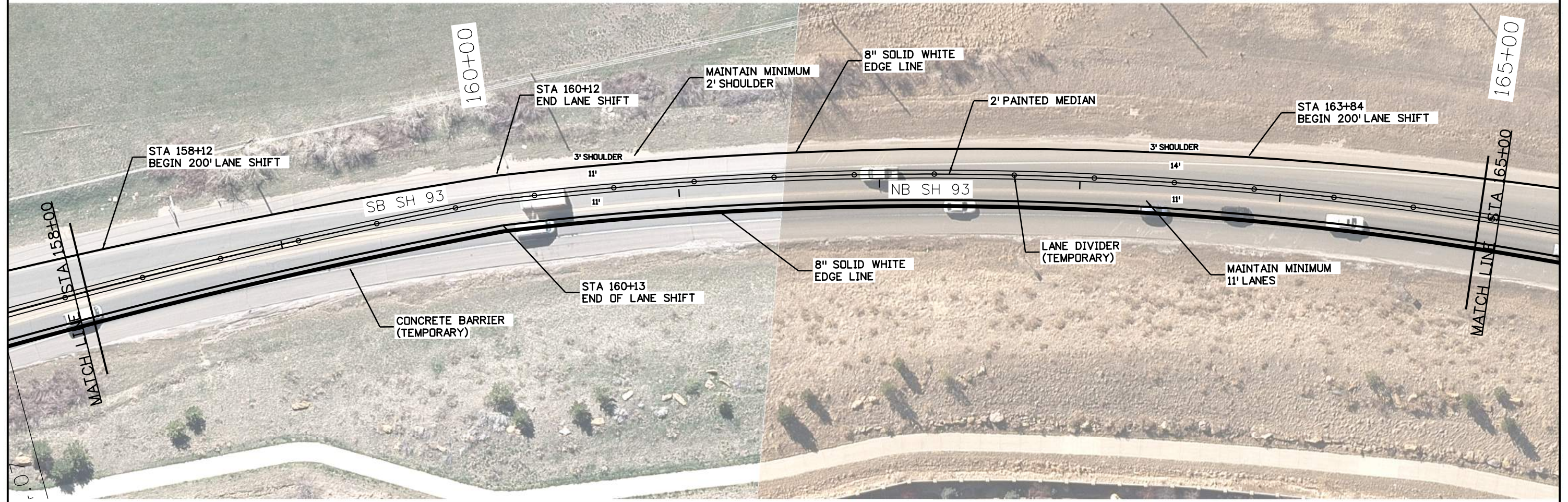
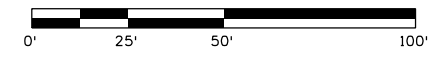
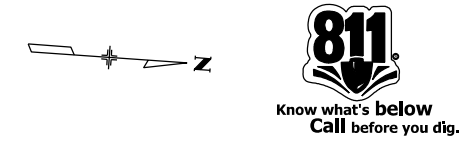
THE TRAFFIC CONTROL PLANS HAVE BEEN DEVELOPED TO ESTIMATE PROJECT SCHEDULE AND QUANTITIES. THESE PLANS ARE PROVIDED FOR THE CONTRACTORS INFORMATION AND SHOW ONE POTENTIAL APPROACH TO COMPLETE THE WORK WHILE MEETING THE LANE CLOSURE REQUIREMENTS AND MINIMIZING TRAFFIC IMPACTS. OTHER TRAFFIC CONTROL SOLUTIONS MAY BE PROPOSED AND IMPLEMENTED AS APPROVED BY THE PROJECT ENGINEER

ALL EXISTING SIGNS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SHALL BE COVERED OR TURNED DURING ALL WORKING HOURS. THIS SHALL BE INCLUDED IN THE COST OF WORK AND SHALL NOT BE PAID FOR SEPARATELY.

SEE CDOT REVISED STANDARD S-630-1 FOR TYPICAL PHASING STRATEGIES.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/4/2022	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> </tbody> </table>			Date:	Comments	Init.										Colorado Department of Transportation  425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951		As Constructed No Revisions:		SH 93 TRAFFIC CONTROL STRIPING		Project No./Code	
	Date:				Comments	Init.																		
File Name: 23327DES_Traffic Control1.dgn	Region 1		JDS		NHPP 0931-033																			
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malewska 11:44:53 AM pw:\cdot-pw.bentley.com\cdot-pw-01p\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TO 58TH\Design\Drawings\23327DES_Traffic Control2



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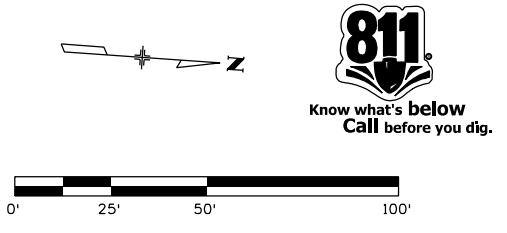
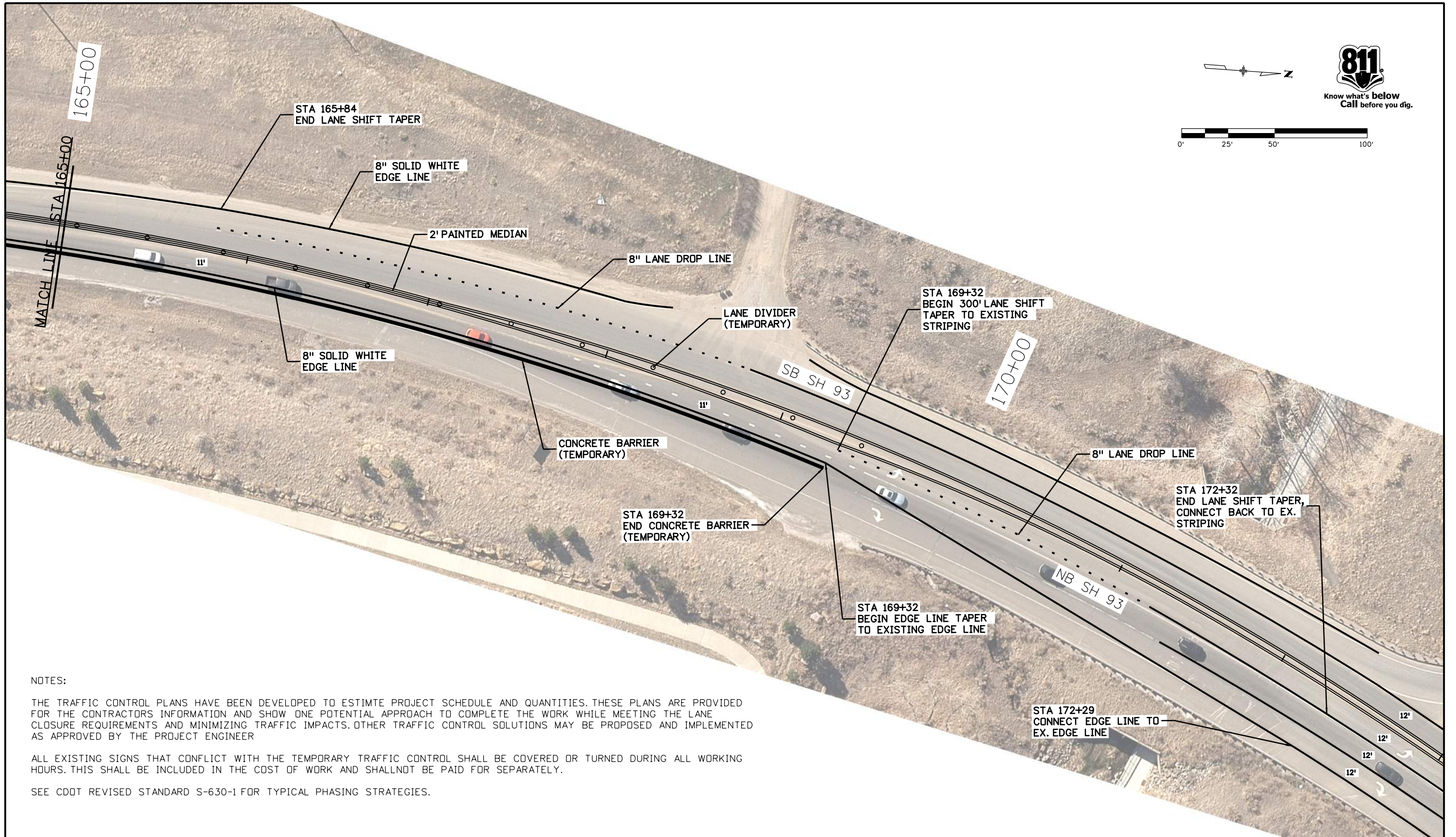
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SEE CDOT REVISED STANDARD S-630-1 FOR TYPICAL PHASING STRATEGIES.

All seals for this set of drawings are applied to the cover page(s)	Print Date: 10/4/2022 File Name: 23327DES_Traffic Control2 Horiz. Scale: 1:50 Vert. Scale: As Noted	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Date:</th> <th style="width: 60%;">Comments</th> <th style="width: 25%;">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.										Colorado Department of Transportation 425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	SH 93 TRAFFIC CONTROL STRIPING Designer: AF Detailer: AF Sheet Subset: TCP Subset Sheets: 03 of 04	Project No./Code NHPP 0931-033 23327 Sheet Number 129
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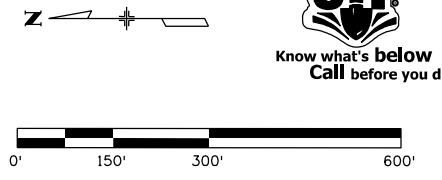
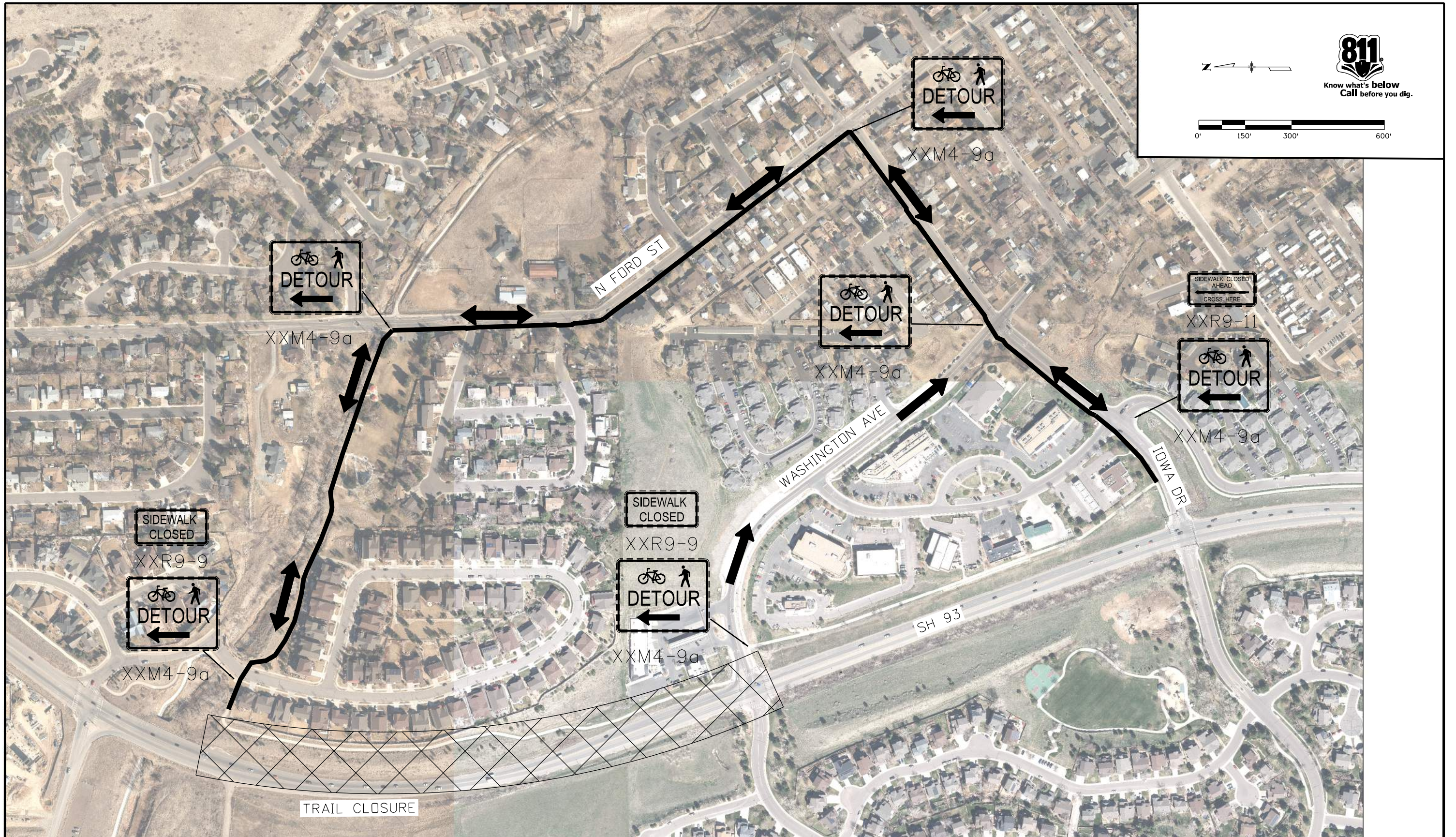
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SEE CDOT REVISED STANDARD S-630-1 FOR TYPICAL PHASING STRATEGIES.

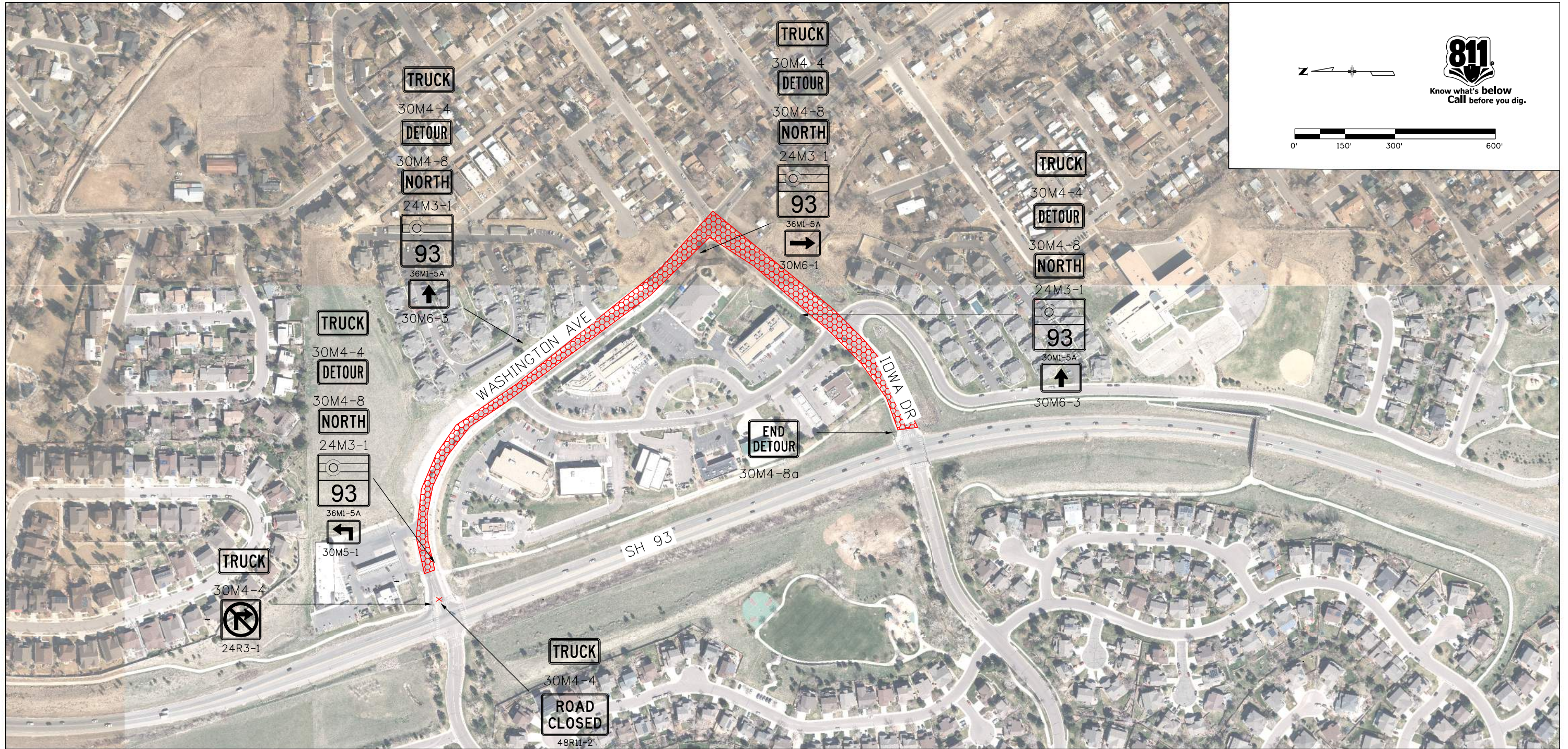
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malewska 2:28:52 PM pw:\cdot-pw.bentley.com\cdot-pw-01P\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TO 58TH\Design\Drawings\23327 Ped Detour.dgn



All seals for this set of drawings are applied to the cover page(s)	Print Date: 6/28/2022	Sheet Revisions			Colorado Department of Transportation  425 A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951 Region 1	As Constructed		PEDESTRIAN DETOUR		Project No./Code	
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malewska 1:25:55 PM p:\cdot-pw\benley.com\cdot-pw-01P\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TO 58TH\Design\Drawings\23327 Truck Detour.dgn



DETOUR NOTES:

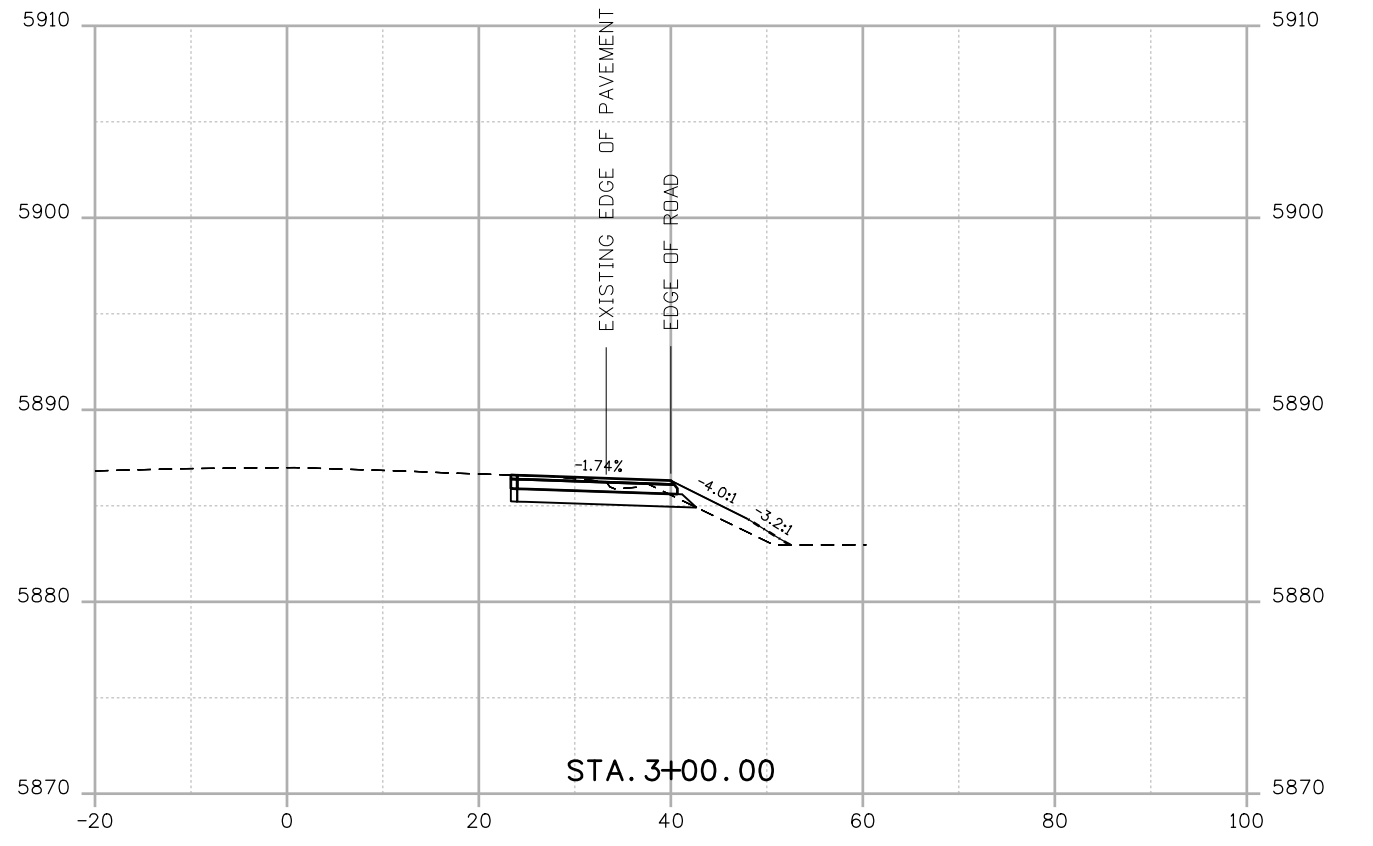
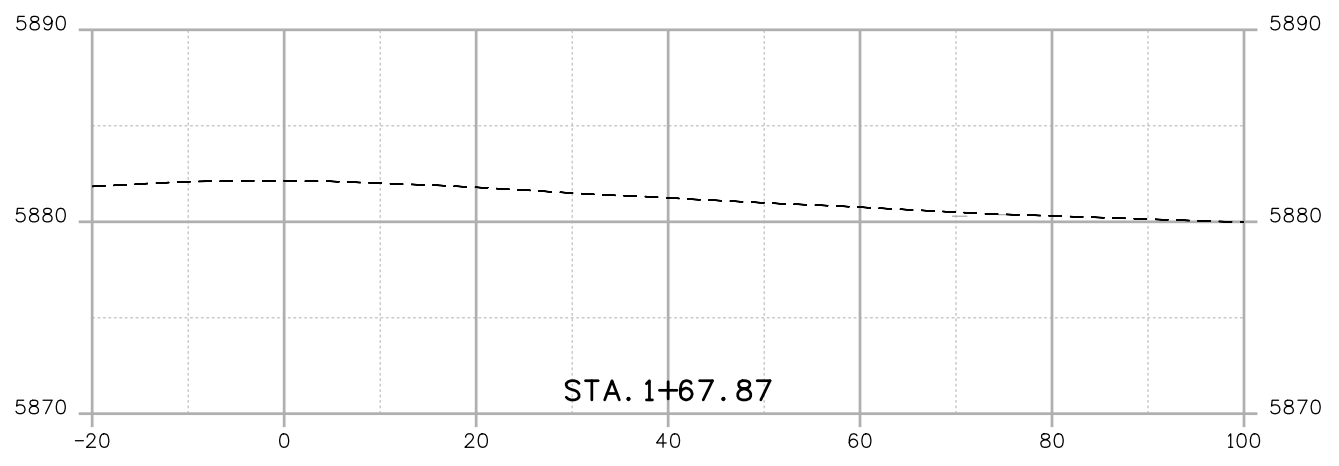
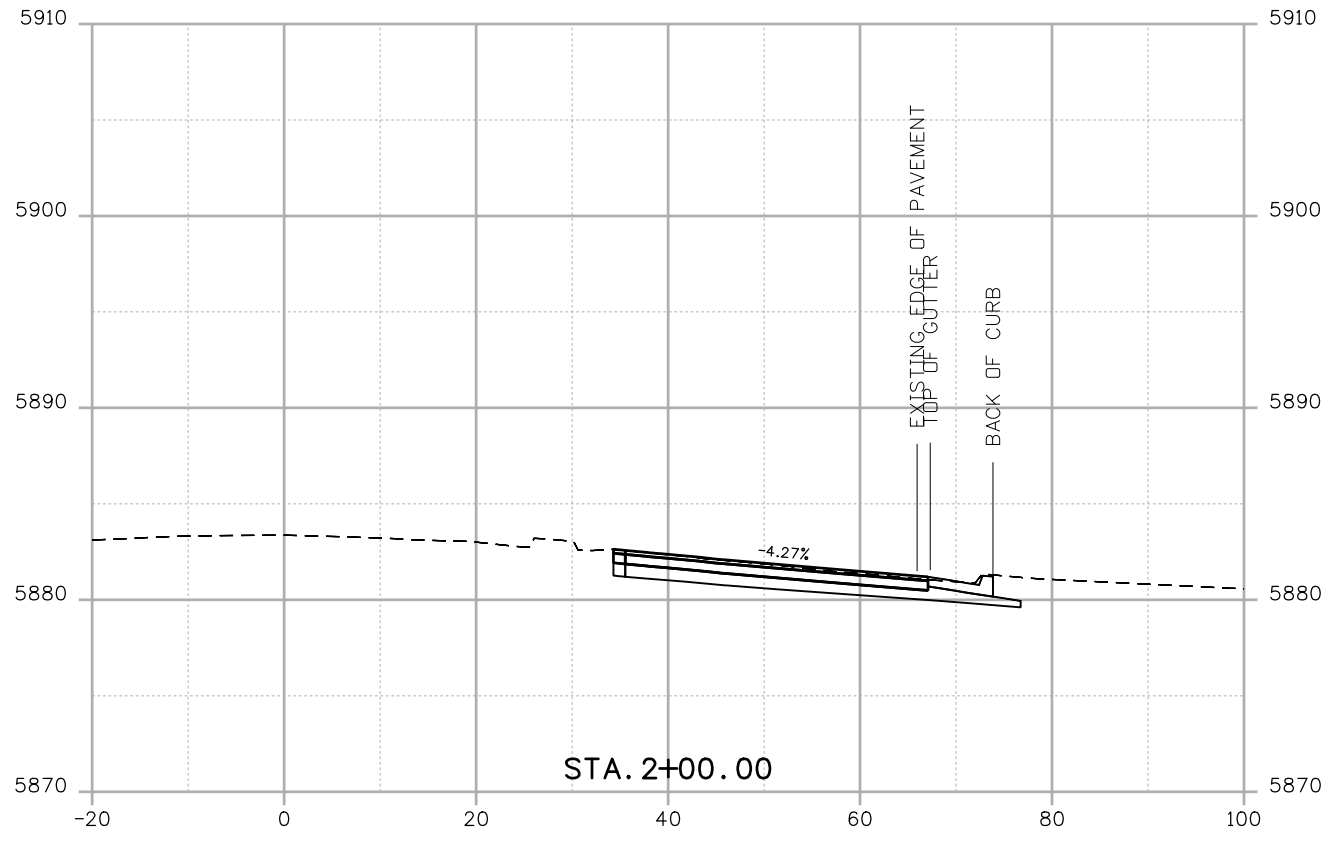
- 1) CLOSE NB SH93 TO TRUCK TRAFFIC COMING FROM WASHINGTON AVENUE
- 2) DETOUR WASHINGTON AVENUE TO IDWA DRIVE FOR NB SH93 ACCESS
- 3) QUANTITIES FOR DETOUR SIGNING ARE PROVIDED IN TRAFFIC TABULATIONS
- 4) SEE CDOT REVISED STANDARD S-630-1 FOR ADVANCED TRAFFIC CONTROL REQUIREMENTS

LEGEND:

- RIGHT LANE CLOSURE
- DETOUR ROUTE

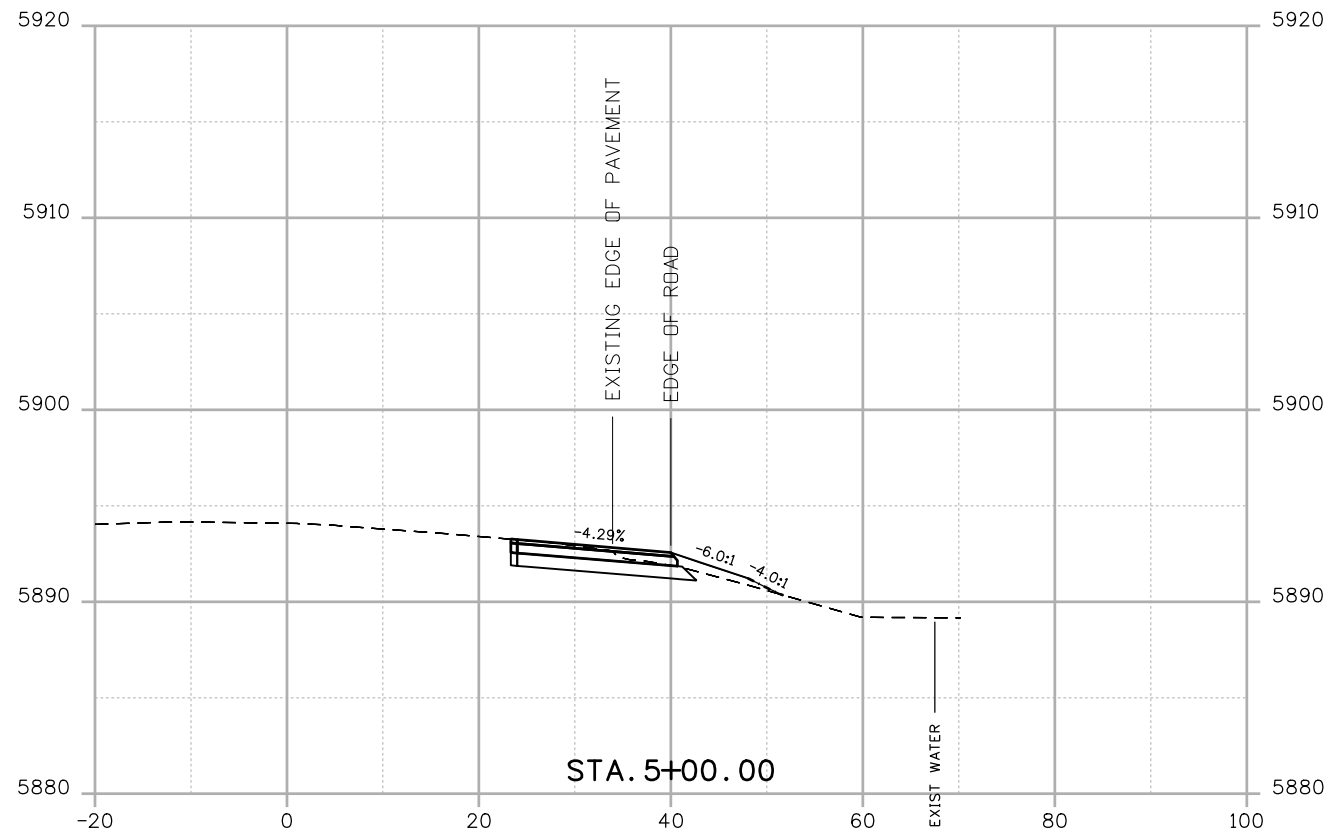
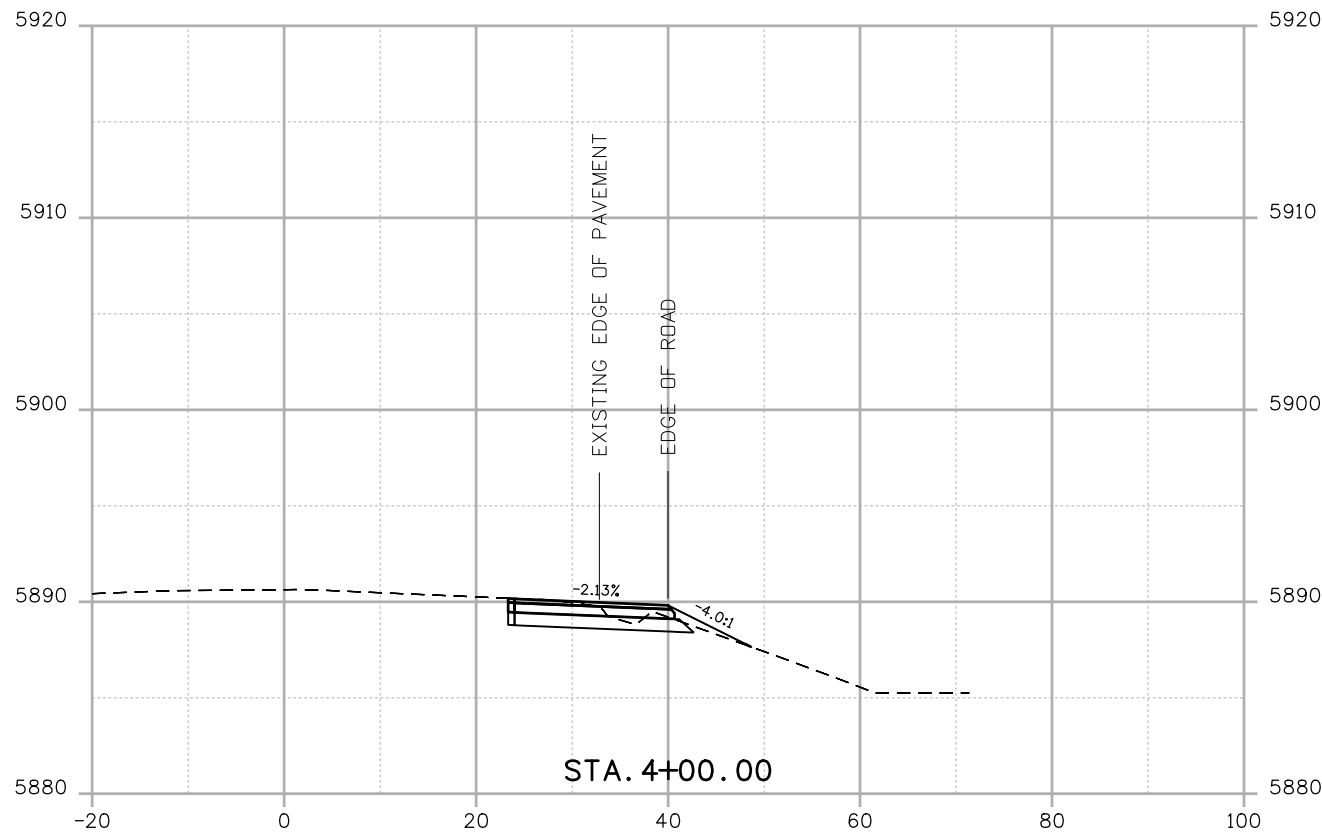
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All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/18/2022	Sheet Revisions			Colorado Department of Transportation			As Constructed		CROSS SECTIONS			Project No./Code					
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					Region 1			JDS										

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Colorado Department of Transportation

425 A CORPORATE CIRCLE
 GOLDEN CO, 80401
 Phone: 720-497-6959
 FAX: 720-497-6951

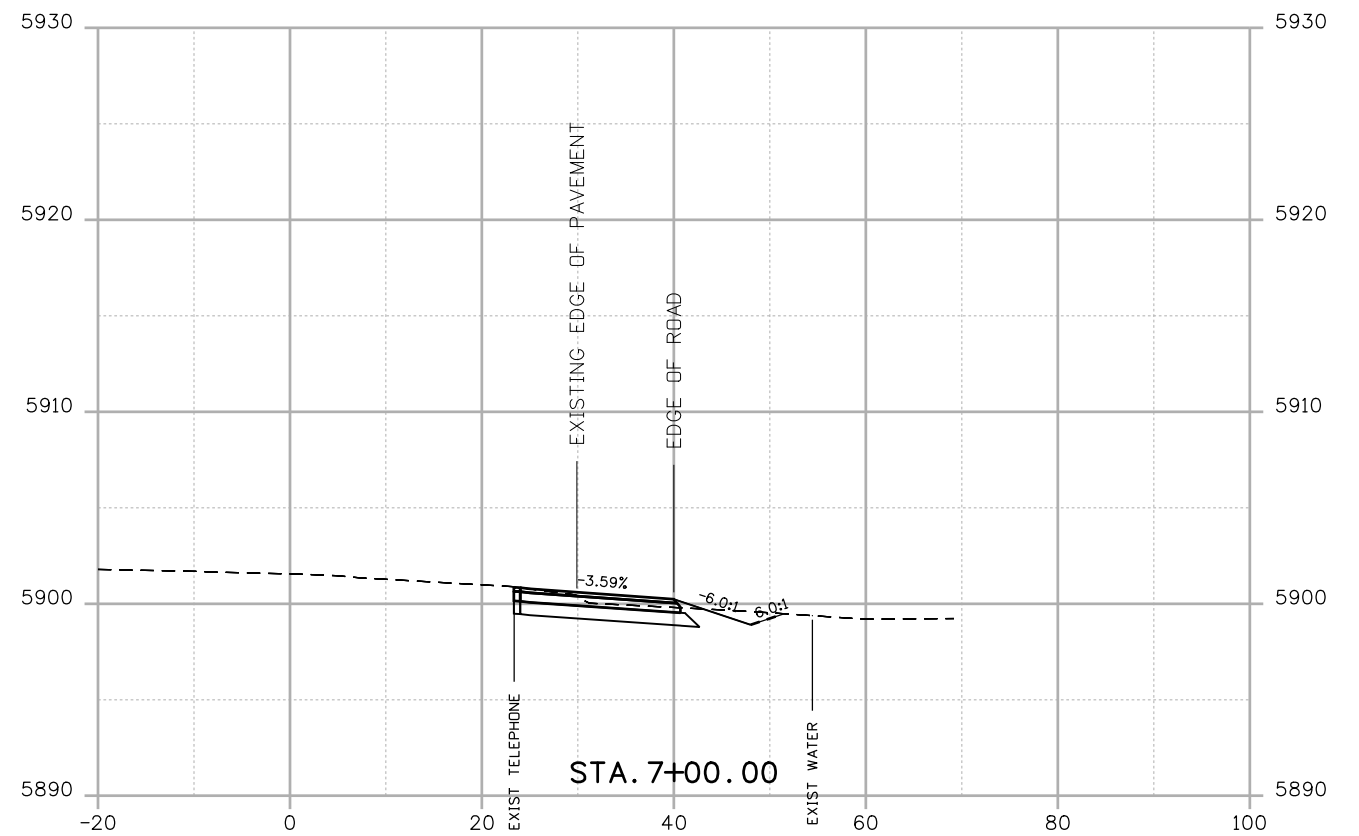
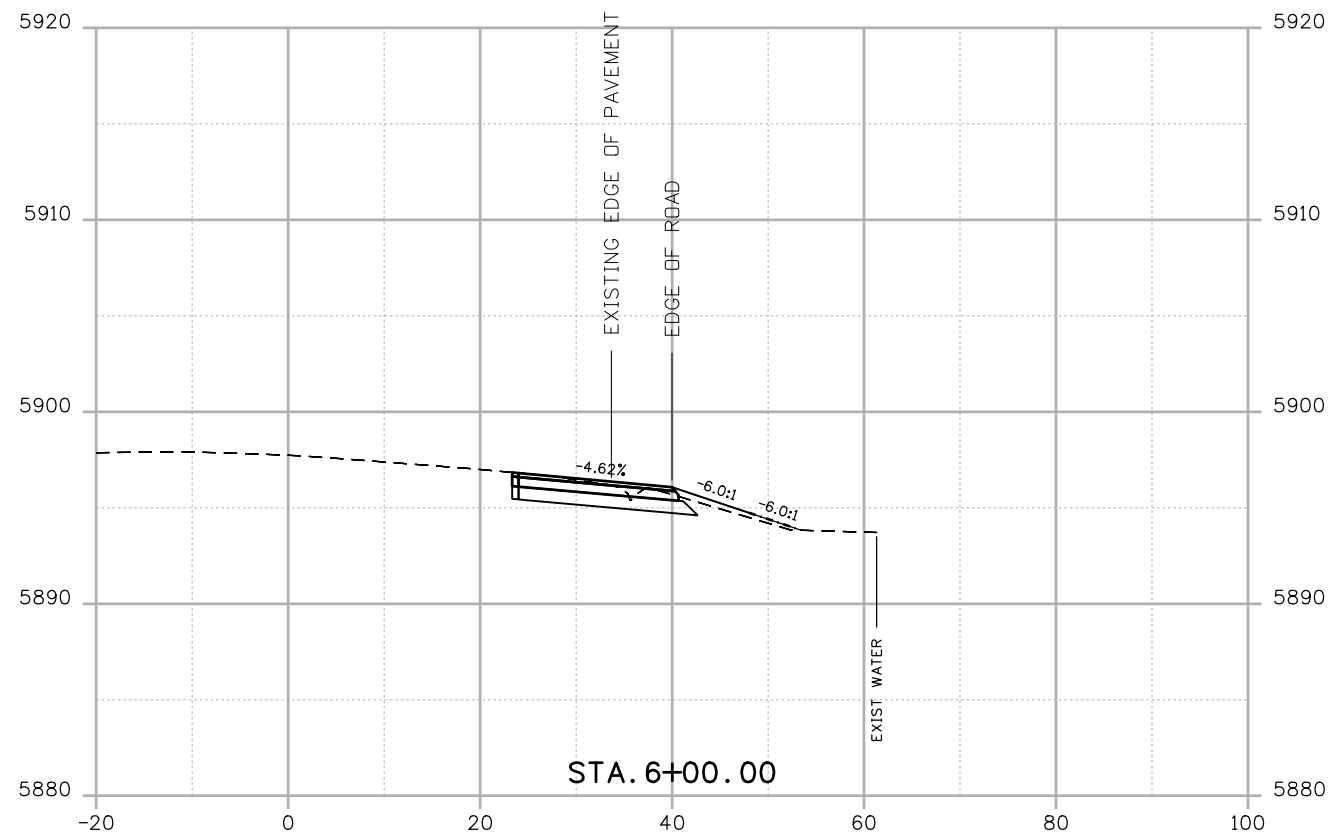
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Revised:
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Sheet Subset:	XSEC	Subset Sheets:	2 of 9

Project No./Code
NHPP 0931-033
23327
Sheet Number 134

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

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Colorado Department of Transportation

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GOLDEN CO, 80401
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FAX: 720-497-6951

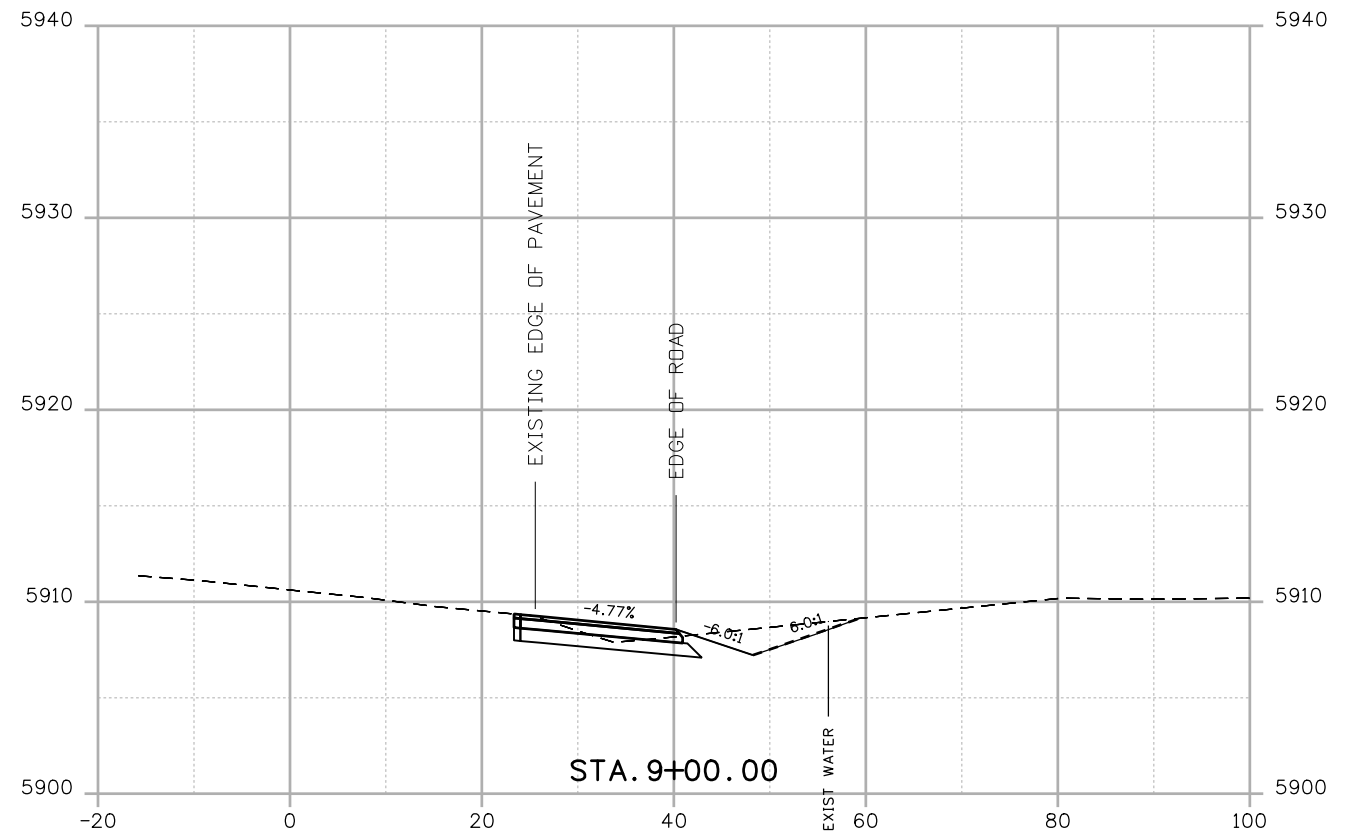
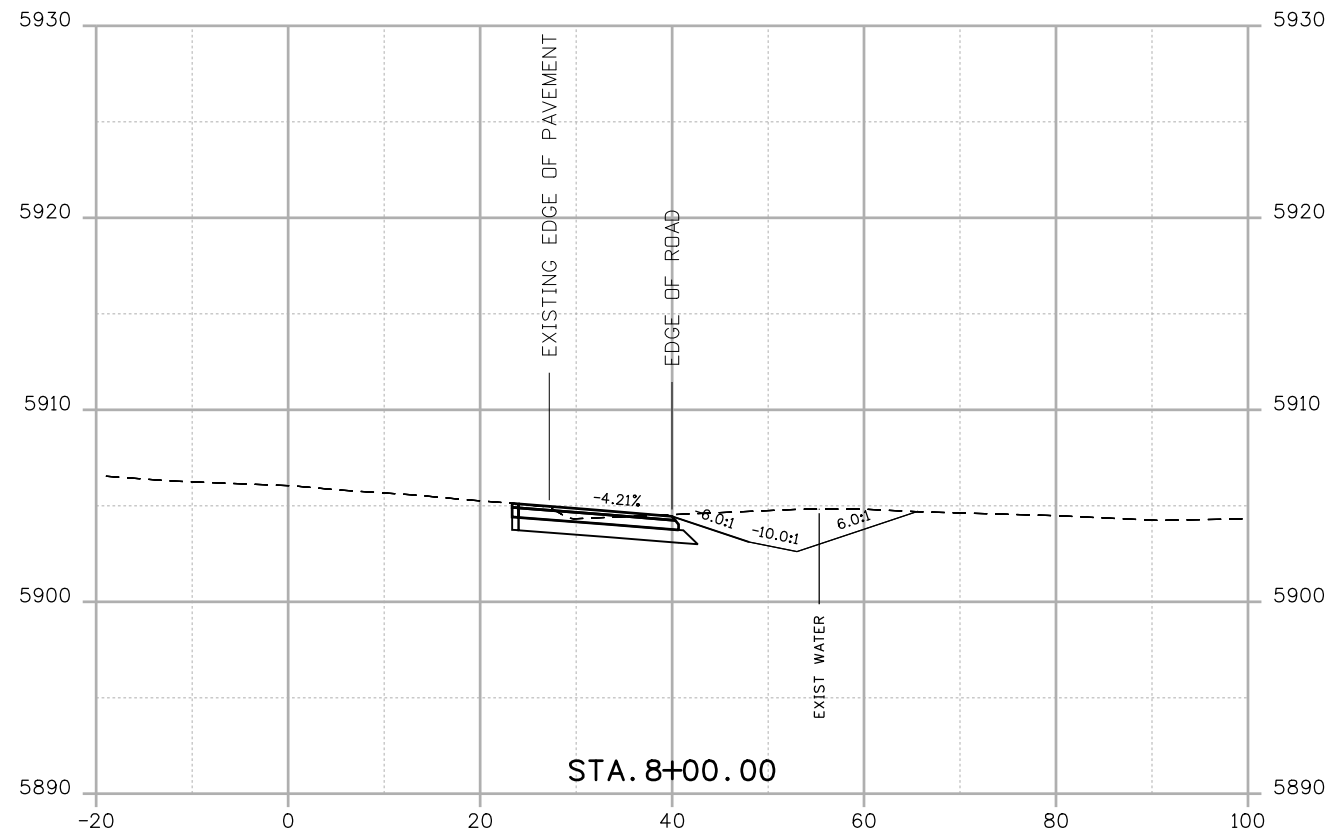
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Project No./Code
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23327
Sheet Number 135

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Sheet Revisions		
Date:	Comments	Init.

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425 A CORPORATE CIRCLE
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 FAX: 720-497-6951

Region 1 JDS

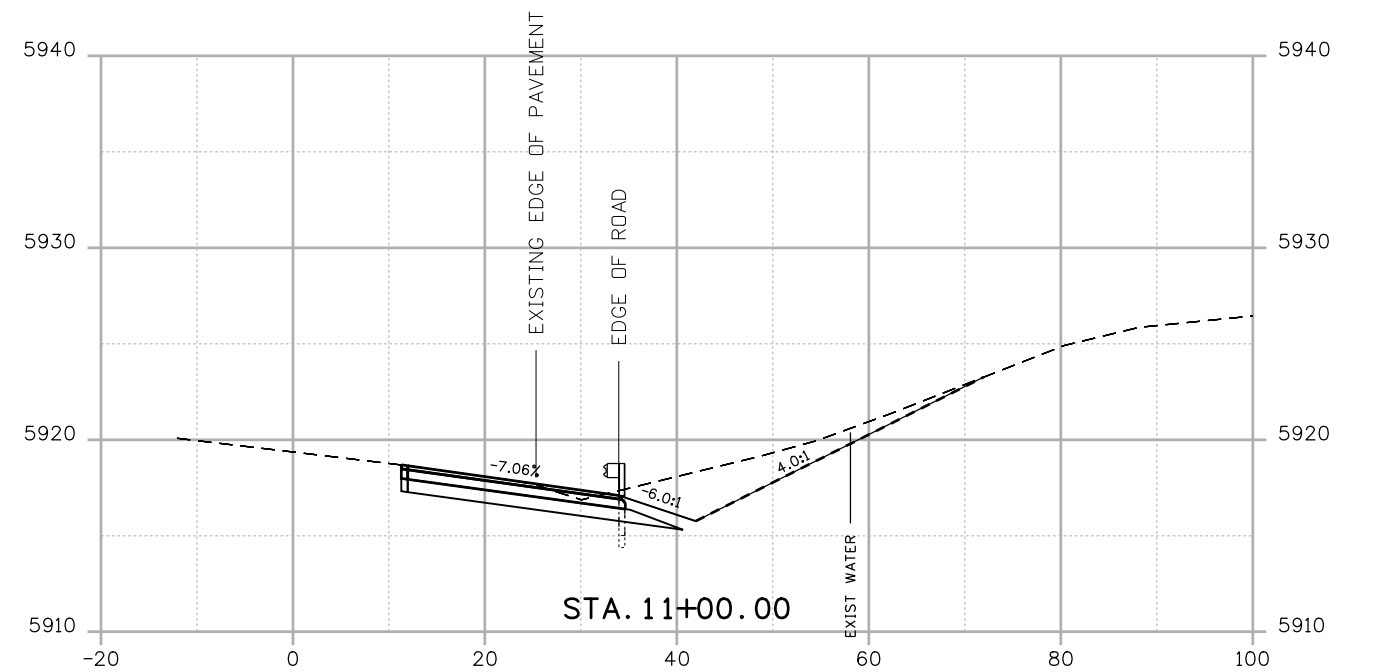
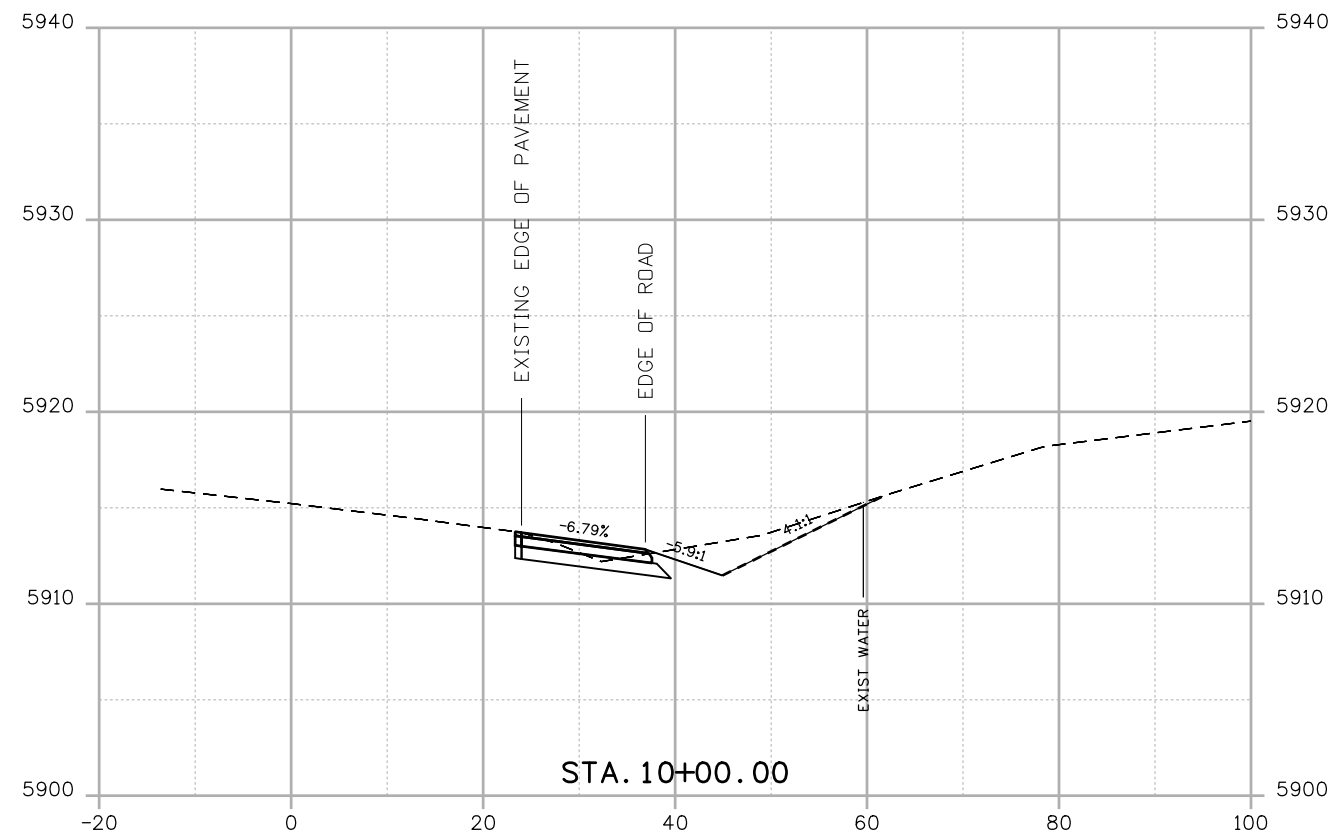
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CROSS SECTIONS

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Project No./Code
NHPP 0931-033
23327
Sheet Number 136

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

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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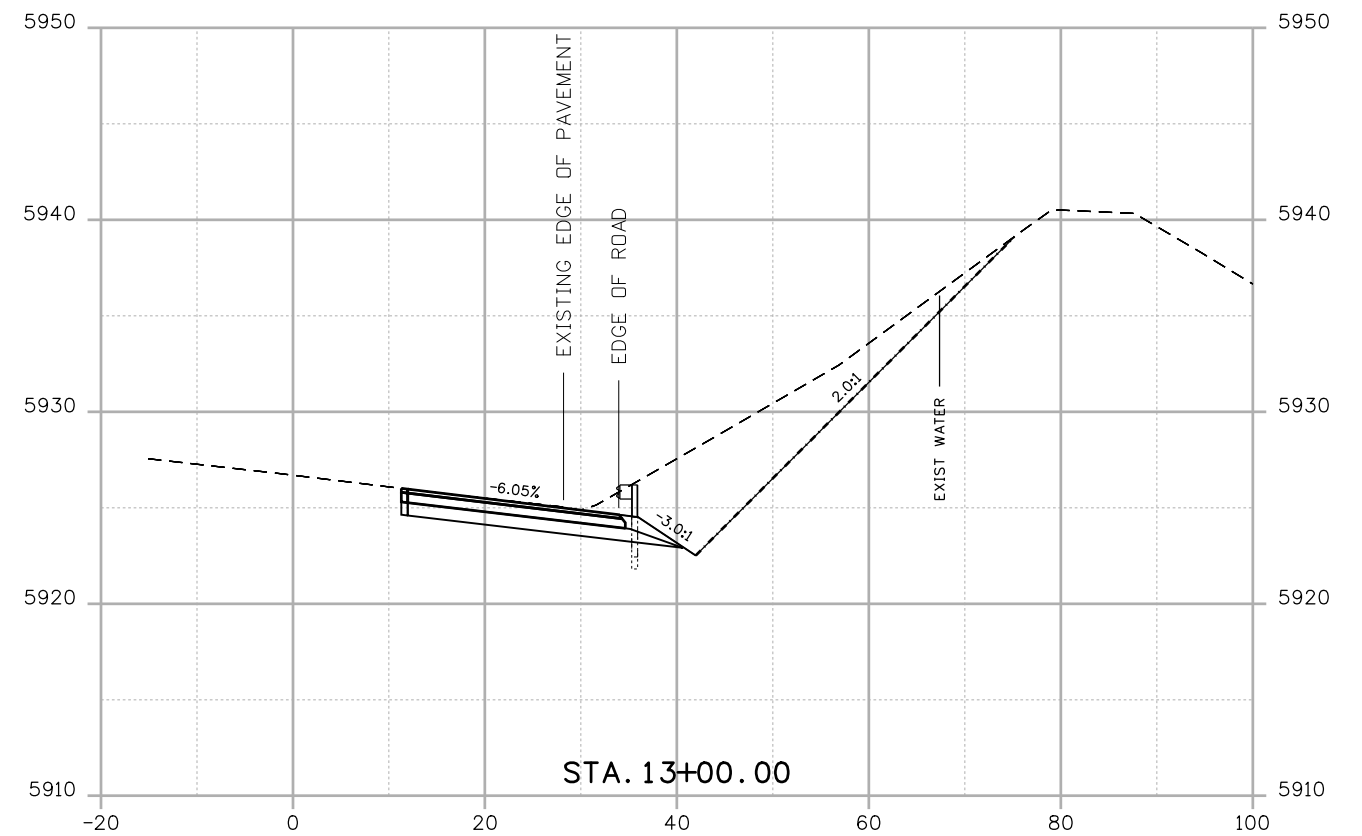
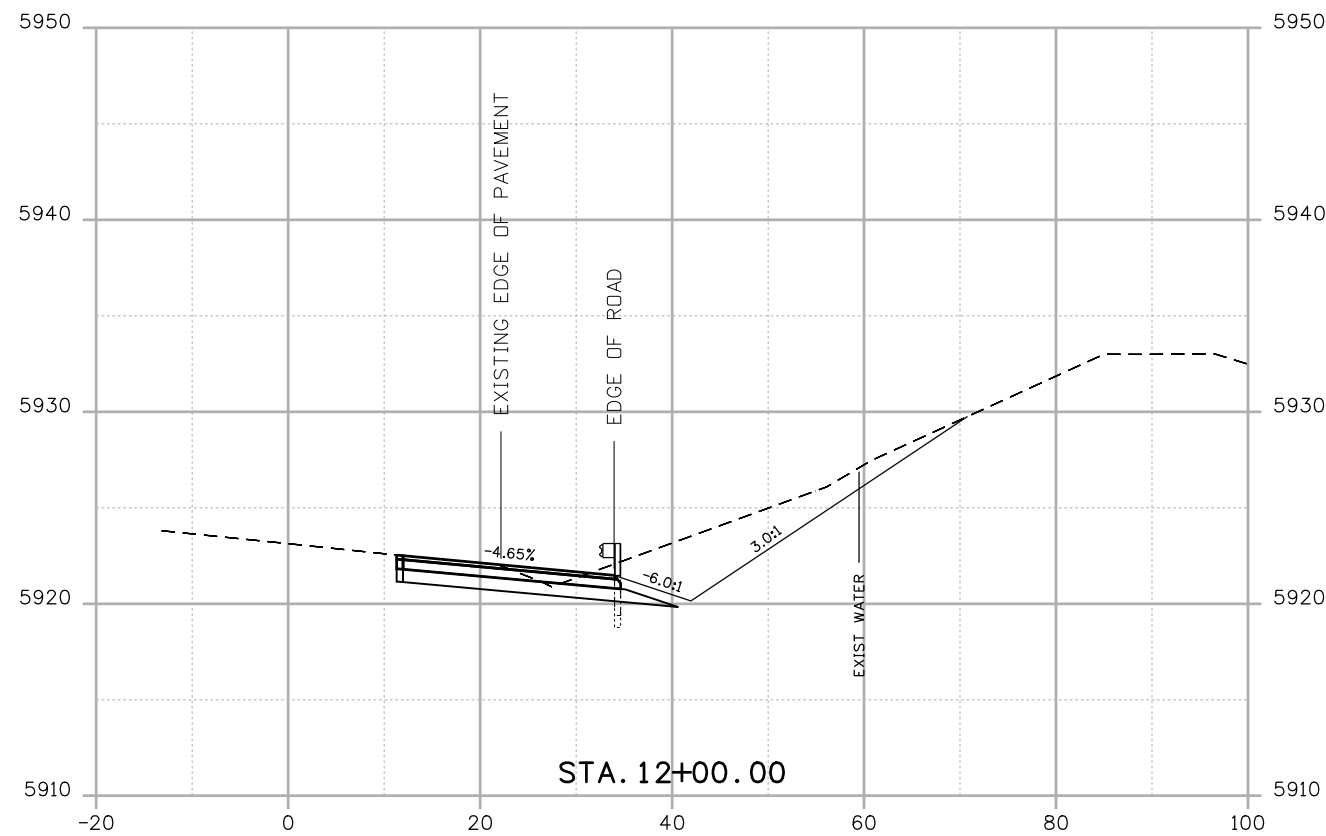
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Project No./Code
NHPP 0931-033
23327
Sheet Number 137

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Date:	Comments	Init.

Colorado Department of Transportation

425 A CORPORATE CIRCLE
 GOLDEN CO, 80401
 Phone: 720-497-6959
 FAX: 720-497-6951

Region 1 JDS

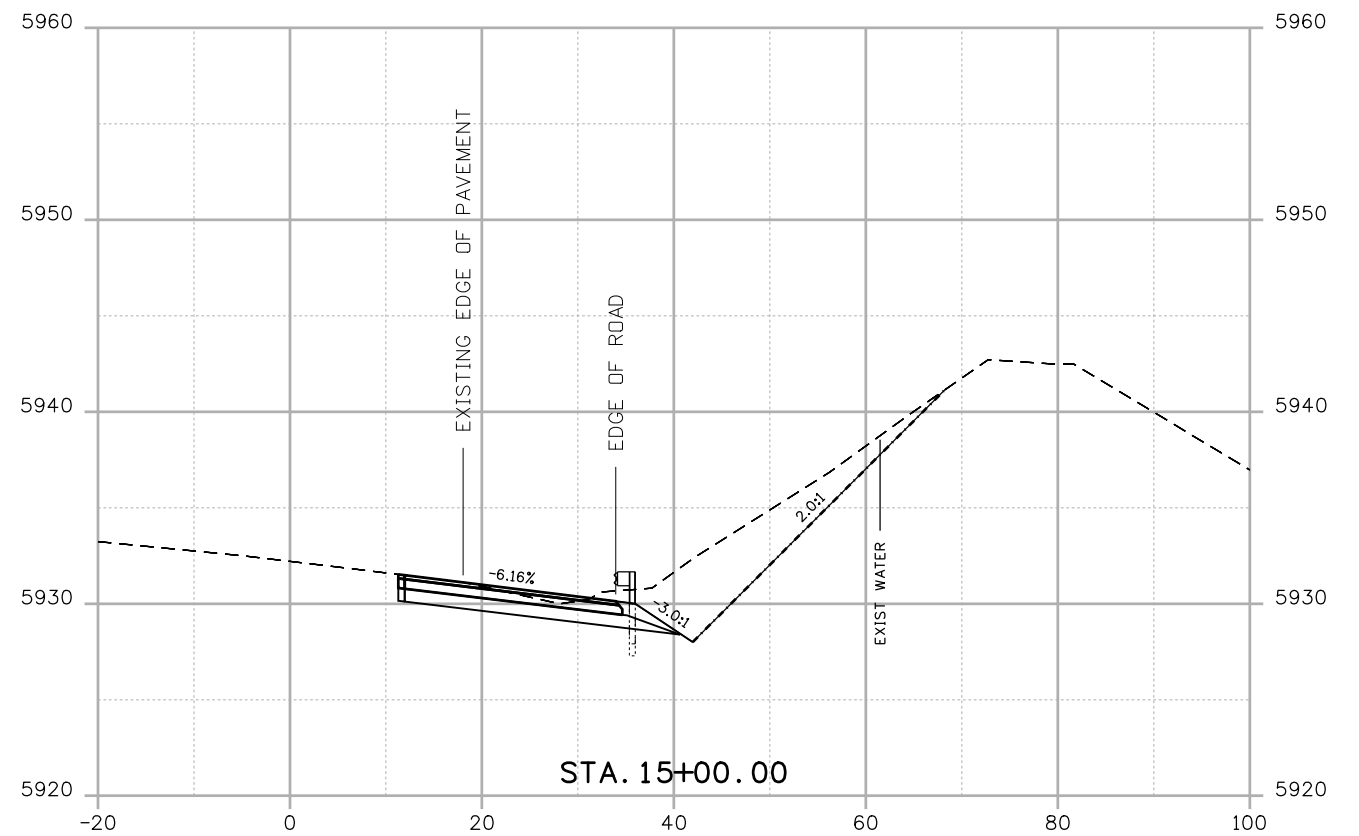
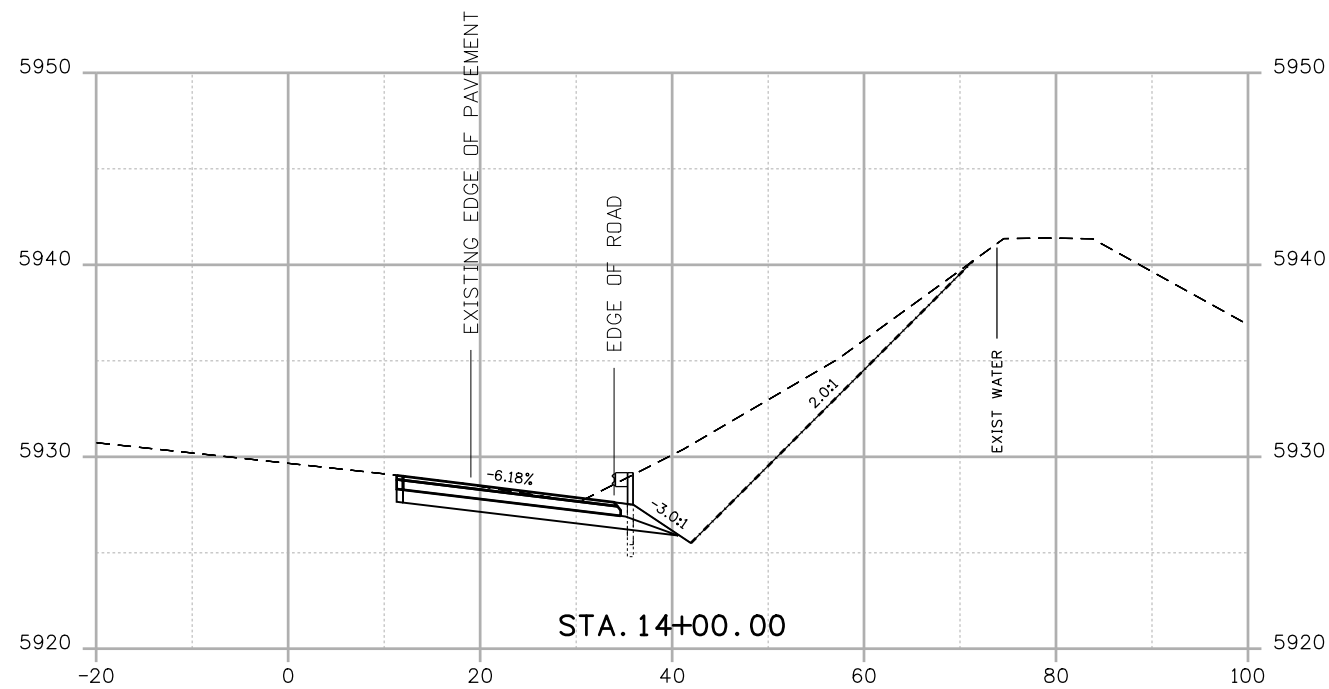
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CROSS SECTIONS

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Sheet Subset:	XSEC	Subset Sheets:	6 of 9

Project No./Code
NHPP 0931-033
23327
Sheet Number 138

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Colorado Department of Transportation

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 FAX: 720-497-6951

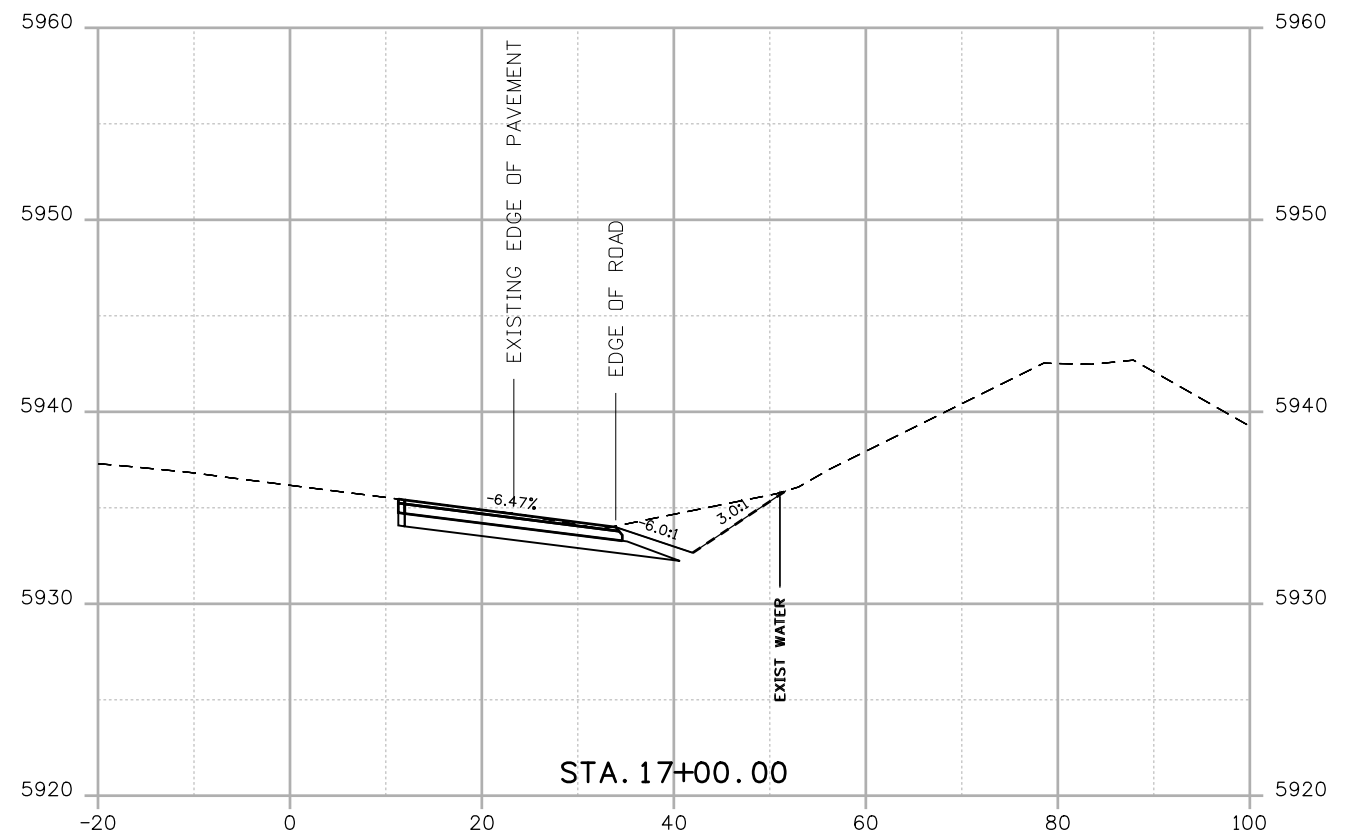
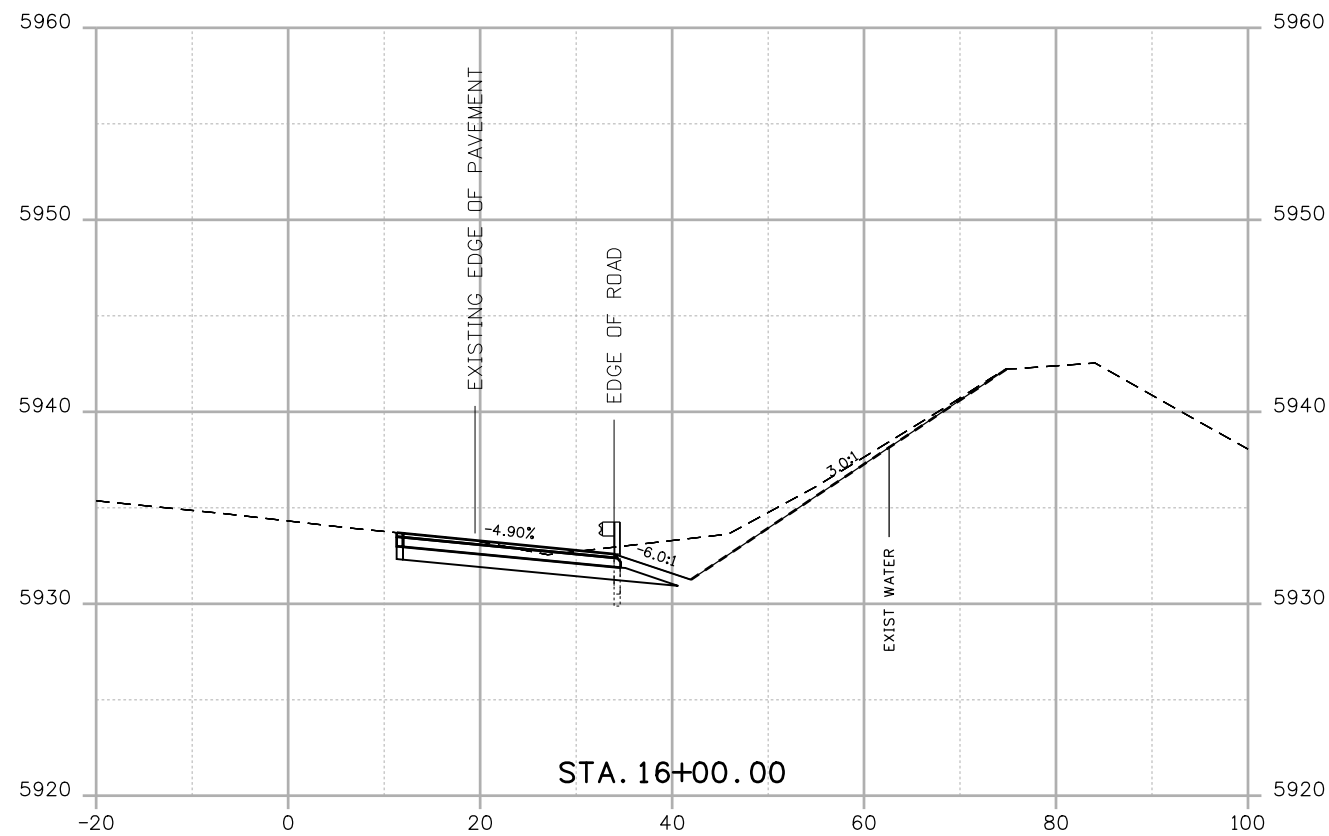
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23327
Sheet Number 139

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

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Colorado Department of Transportation
 425 A CORPORATE CIRCLE
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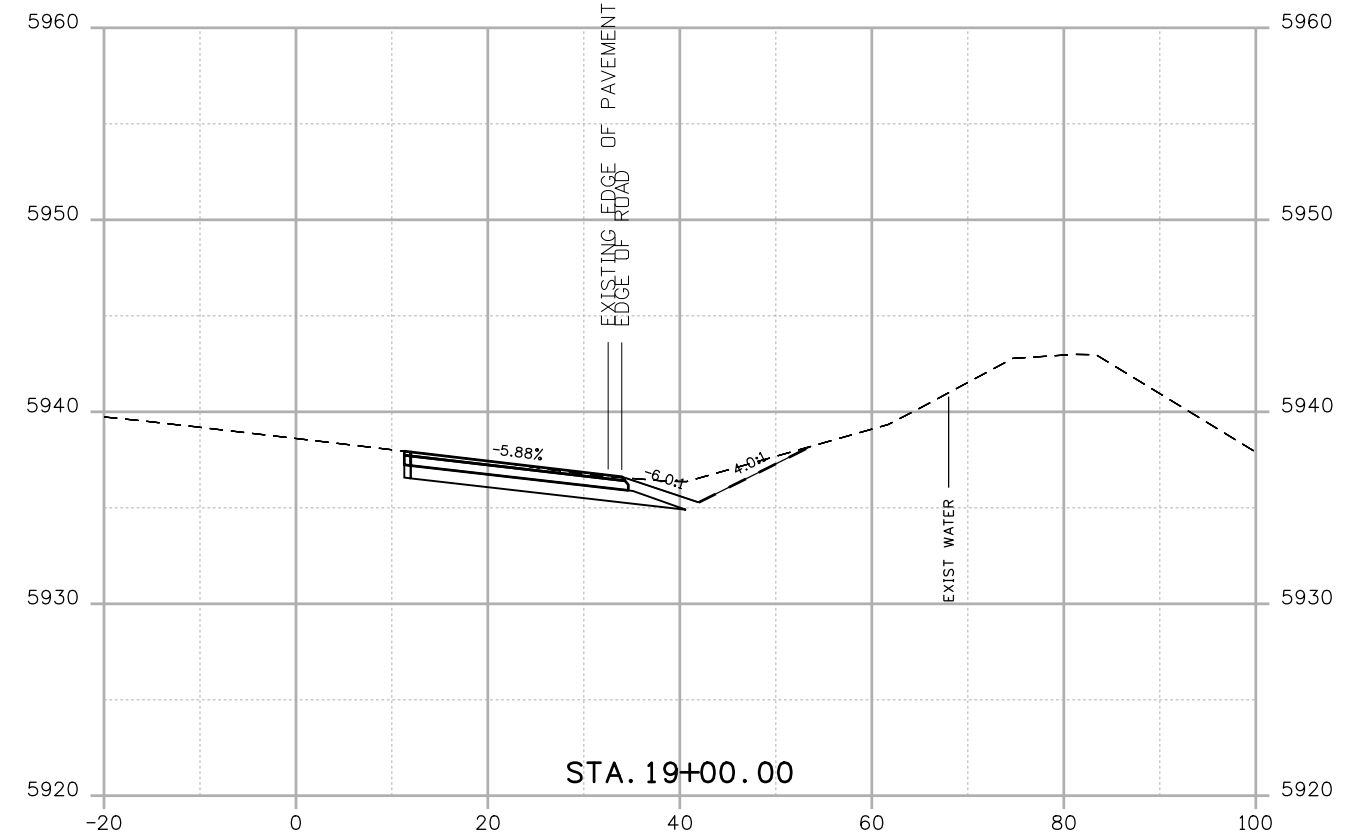
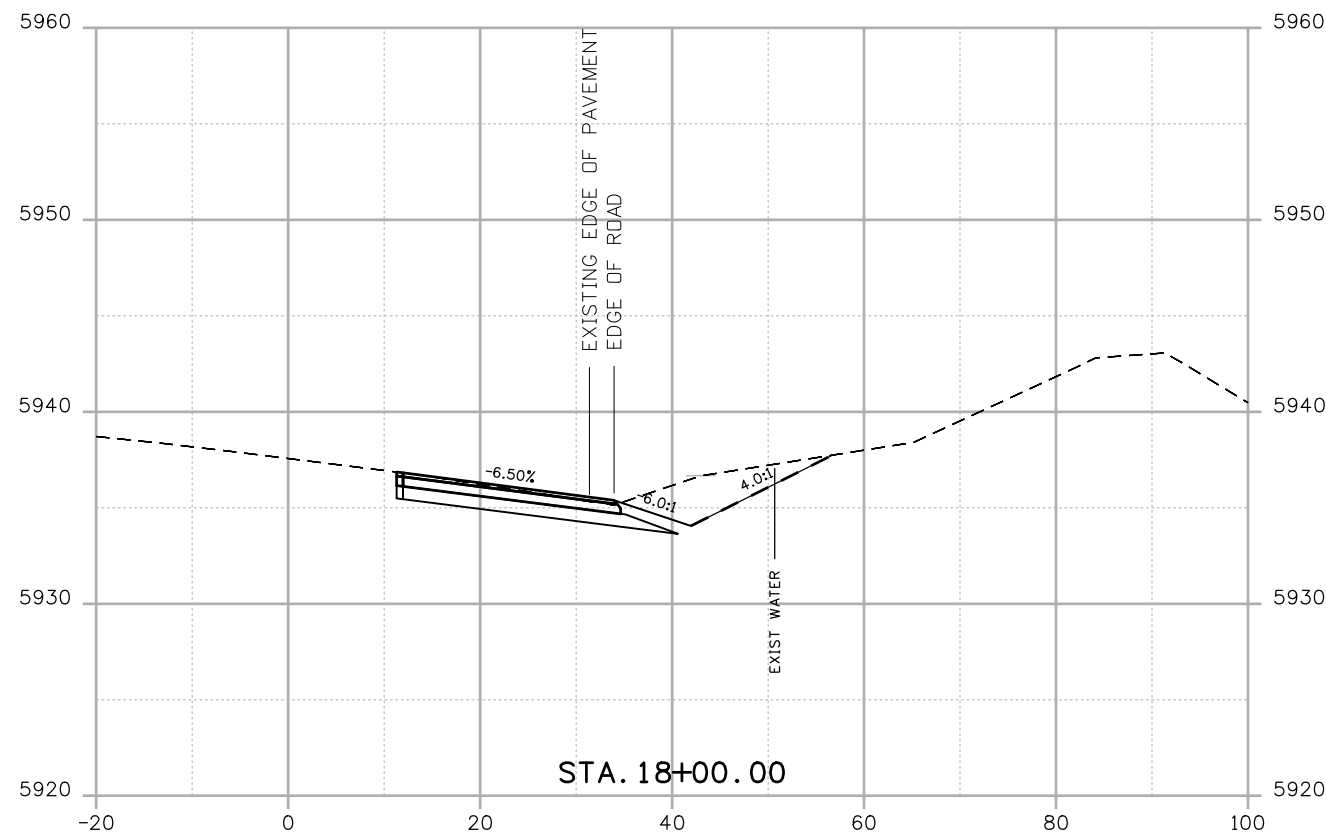
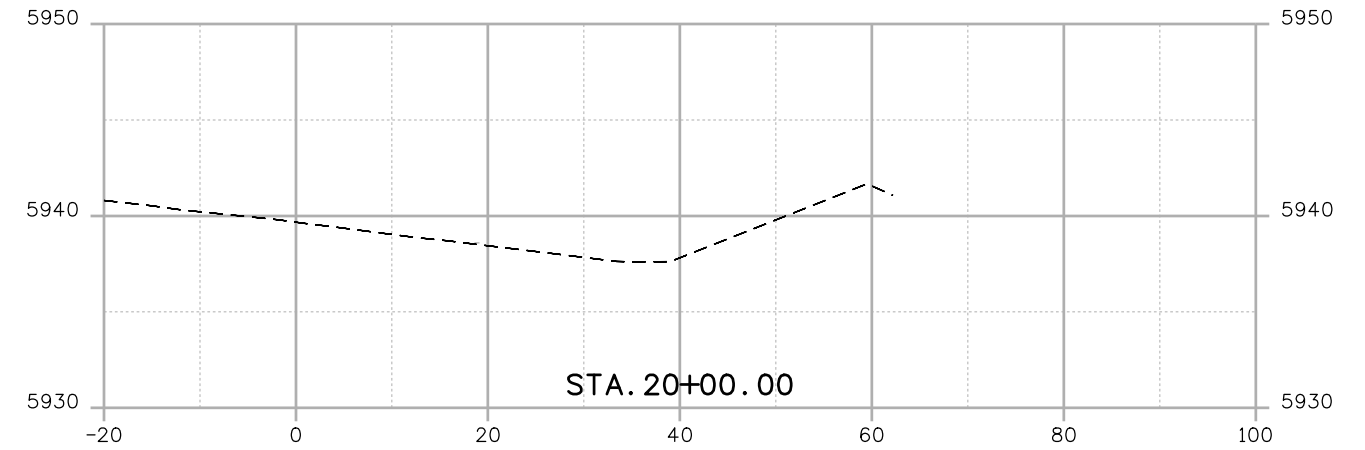
Region 1 JDS

As Constructed
No Revisions:
Revised:
Void:

CROSS SECTIONS			
Designer:	AF	Structure Numbers	
Detailer:	AF		
Sheet Subset:	XSEC	Subset Sheets:	8 of 9

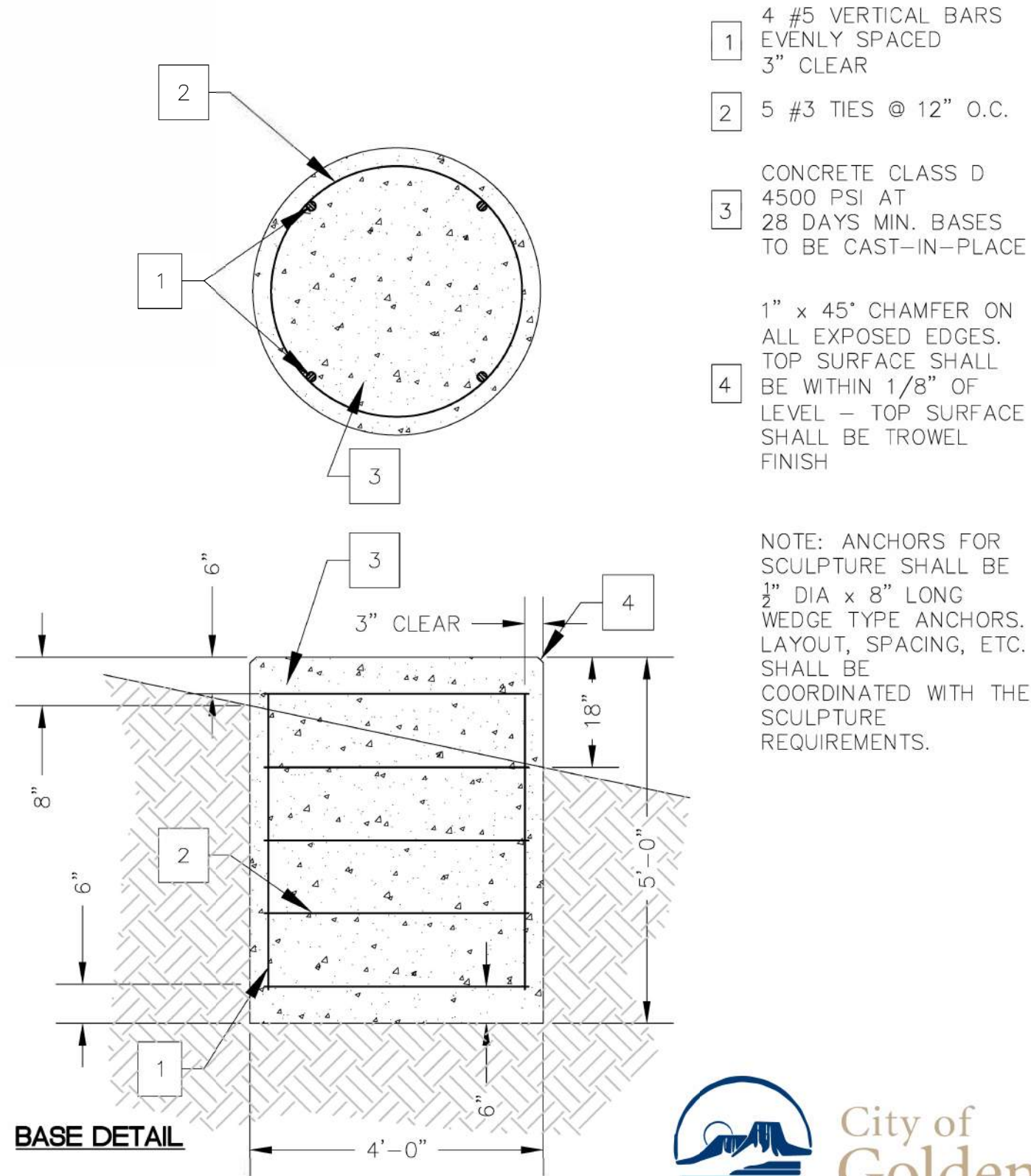
Project No./Code
NHPP 0931-033
23327
Sheet Number 140

farberova 3:43:53 PM pw:\\cdot-pw.bentley.com\cdot-pw-01P\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - 5H93 US6 TD 58TH\Design\Drawings\23327_DES_Cross Section 9.dgn



All seals for this set of drawings are applied to the cover page(s)	Print Date: 8/18/2022	Sheet Revisions			Colorado Department of Transportation				As Constructed		CROSS SECTIONS				Project No./Code	
	File Name: 23327_DES_Cross Section 9.dgn	Date:	Comments	Init.	 425 A CORPORATE CIRCLE GOLDEN CO, 80401 Phone: 720-497-6959 FAX: 720-497-6951		JDS		No Revisions:		Designer: AF Detailer: AF Sheet Subset: XSEC Subset Sheets: 9 of 9				NHPP 0931-033	
	Horiz. Scale: 1:20 Vert. Scale: As Noted														23327	
															Sheet Number 141	

malewska 11:37:30 AM pw:\cdot-pw.bentley.com\cdot-pw-01p\Documents\05 Legacy Active Projects (Migrated)\23000-23999\300-399\23327 - SH93 US6 TD 58TH\Design\Drawings\23327DES_CaissonDetail.dgn



- 1 4 #5 VERTICAL BARS
EVENLY SPACED
3" CLEAR
- 2 5 #3 TIES @ 12" O.C.
- 3 CONCRETE CLASS D
4500 PSI AT
28 DAYS MIN. BASES
TO BE CAST-IN-PLACE
- 4 1" x 45° CHAMFER ON
ALL EXPOSED EDGES.
TOP SURFACE SHALL
BE WITHIN 1/8" OF
LEVEL – TOP SURFACE
SHALL BE TROWEL
FINISH

NOTE: ANCHORS FOR
SCULPTURE SHALL BE
1/2" DIA x 8" LONG
WEDGE TYPE ANCHORS.
LAYOUT, SPACING, ETC.
SHALL BE
COORDINATED WITH THE
SCULPTURE
REQUIREMENTS.



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

Print Date: 10/20/2022
File Name: 23327DES_CaissonDetail.dgn
Horiz. Scale: 1:100 Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

425 A Corporate Circle
Golden, CO 80401
Phone: 720-497-6959
FAX: 720-497-6951

Region 1 JDS

As Constructed
No Revisions:
Revised:
Void:

CAISSON DETAIL			
Designer:	AM	Structure Numbers	
Detailer:	AM		
Sheet Subset:	CAISSON	Subset Sheets:	01 of 01

Project No./Code
NHPP 0931-033
23327
Sheet Number 142