REVISIONS			
	DESCRIPTION	DATE	SHEETS AFFECTED

SARATOGA ROAD & 145 NORTH IMPROVEMENTS SARATOGA SPRINGS, UT

LOCATED IN SECTIONS 19 & 20,
TOWNSHIP 5 SOUTH, RANGE 1 WEST,
SALT LAKE BASE AND MERIDIAN
SALT LAKE CITY, UTAH

MARCH 12, 2026

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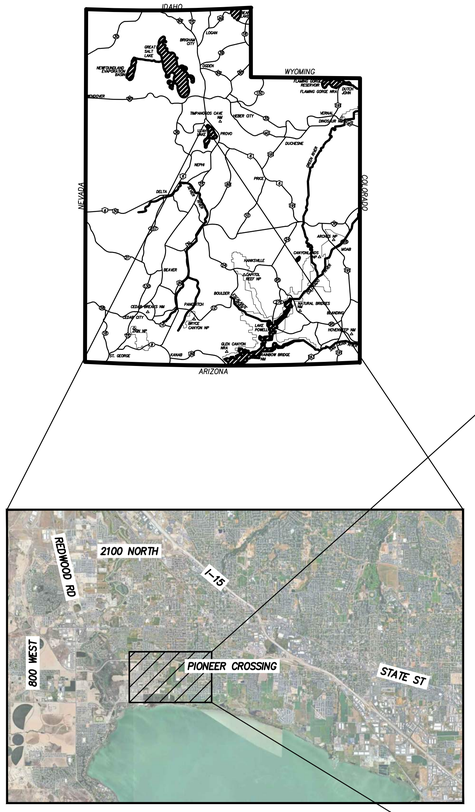
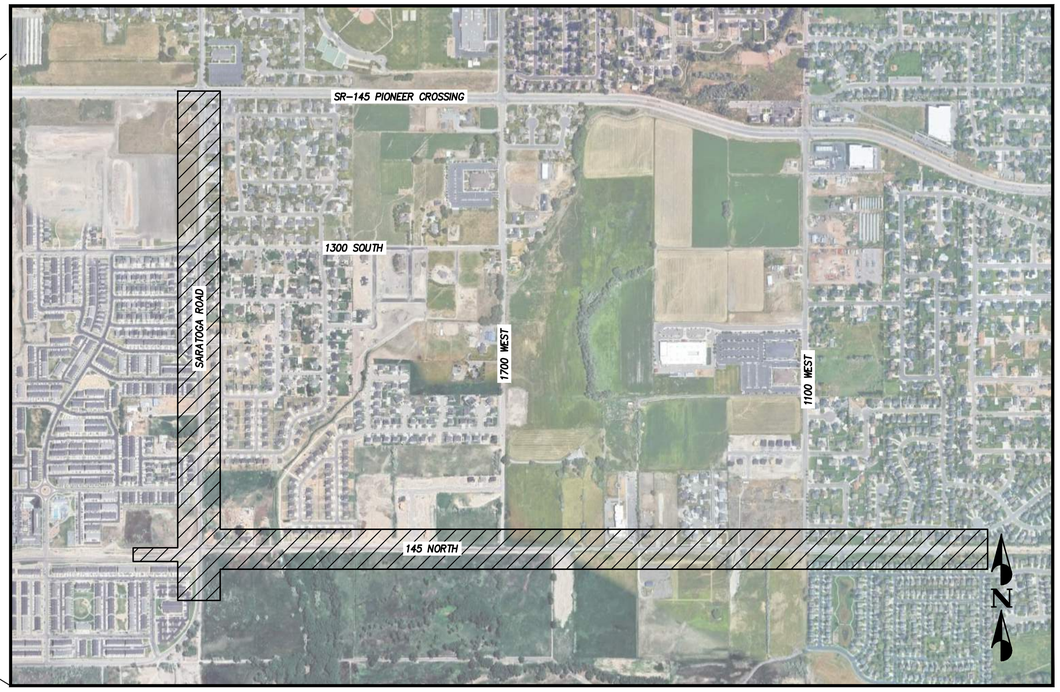
SG-S01~SG-S03	1900 SOUTH / 1100 WEST TRAFFIC SIGNAL PLANS





VICINITY MAP
NOT TO SCALE

BID SET

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CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

MARCH 12, 2026	1005.2317	DWG/00-TITLE-00	SHEET NO. C0.0
DATE:	PROJECT:	FILE:	

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND SPECIFICATIONS INCLUDING SARATOGA SPRINGS STANDARDS. IN THE ABSENCE OF PROJECT STANDARD AND SPECIFICATIONS, 2025 APWA STANDARDS AND SPECIFICATIONS SHALL GOVERN.
2. CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL SIDEWALK, PAVEMENT, GRAVEL, UTILITIES, LANDSCAPING, IRRIGATION, FENCING AND EXISTING IMPROVEMENTS DAMAGED AS PART OF CONSTRUCTION.
3. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS AND SURVEY DATA SHOWING THE FINAL LOCATION AND LAYOUT OF ALL MECHANICAL, ELECTRICAL, INSTRUMENTATION EQUIPMENT, PIPING, CONDUITS, STRUCTURES, AND OTHER FACILITIES. THE AS-BUILT RECORD OF THE ELECTRICAL SYSTEM SHALL INCLUDE THE STREET LIGHT LAYOUT PLAN SHOWING LOCATION OF LIGHTS, CONDUITS, CONDUCTORS, POINTS ON CONNECTIONS TO SERVICES, PULL BOXES, AND WIRE SIZES. THE AS-BUILT RECORD OF THE DRAINAGE/UTILITY SYSTEMS SHALL BE PROVIDED IN SARATOGA SPRINGS REQUIRED GIS FORMAT. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE WHERE THE WORK IS BEING PERFORMED TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHT-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES, AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTORS USE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT BLUE STAKES OF UTAH PRIOR TO STARTING ANY ACTIVITIES. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATIONS ONLY.
9. IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.
10. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN CONTACT THE ENGINEER FOR CLARIFICATION.
11. ANY EXISTING SURVEY MONUMENTS IN THE PROJECT AREA SHALL BE PRESERVED AND PROTECTED IN PLACE. ANY DISTURBED MONUMENTS SHALL BE RECONSTRUCTED BY THE CONTRACTOR AT THE END OF THE PROJECT, WITH BOXES (IF APPLICABLE) RAISED TO FINISHED GRADE.

DEMOLITION NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND SPECIFICATIONS INCLUDING SARATOGA SPRINGS STANDARDS. IN THE ABSENCE OF PROJECT STANDARDS AND SPECIFICATIONS, 2025 APWA STANDARDS AND SPECIFICATIONS SHALL GOVERN.
2. CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL SIDEWALK, PAVEMENT, GRAVEL, UTILITIES, LANDSCAPING, IRRIGATION, FENCING AND EXISTING IMPROVEMENTS DAMAGED AS PART OF CONSTRUCTION.
3. SIDEWALKS AND CURBS DESIGNATED TO BE DEMOLISHED SHALL BE DEMOLISHED TO THE NEAREST EXPANSION JOINT, MATCHING THESE PLANS AS CLOSELY AS POSSIBLE.
4. CONTRACTOR IS RESPONSIBLE TO PROVIDE, INSTALL AND MAINTAIN APPROPRIATE TRAFFIC CONTROL DEVICES, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE SAFE AND EFFICIENT MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND TO PROVIDE MAXIMUM PROTECTION AND SAFETY TO ROAD WORKERS.
5. IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.
6. CLEARING AND GRUBBING REQUIRED, SEE PROJECT GEOTECHNICAL ENGINEERING REPORT AND PROJECT MEASUREMENT AND PAYMENT DOCUMENT FOR DETAILS.

SITE NOTES

1. ALL CURB DIMENSIONS ARE TO LIP OF GUTTER UNLESS OTHERWISE NOTED.
2. ALL WORK SHALL COMPLY WITH THE PROJECT PLANS, PROJECT SPECIFICATIONS, PROJECT PAVEMENT EVALUATION REPORT, AND PROJECT GEOTECHNICAL ENGINEERING REPORT, WHICHEVER IS THE MOST STRINGENT. CONTRACTOR SHALL OBTAIN A COPY OF THE PAVEMENT EVALUATION REPORT AND GEOTECHNICAL ENGINEERING REPORT AND FOLLOW ALL RECOMMENDATIONS AND REQUIREMENTS HEREIN.
3. ALL STRIPING, PAVEMENT MARKINGS, AND SIGNAGE TO COMPLY WITH THE CURRENT M.U.T.C.D. EDITION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCAL CODE, WHICHEVER IS MORE STRINGENT.
4. CONTRACTOR IS RESPONSIBLE FOR PERFORMING WORK ON OR ADJACENT TO A PUBLIC ROAD TO PROVIDE, INSTALL, AND MAINTAIN APPROPRIATE TRAFFIC CONTROL DEVICES, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE SAFE AND EFFICIENT MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND TO PROVIDE MAXIMUM PROTECTION AND SAFETY TO ROAD WORKERS. TRAFFIC CONTROL SHALL COMPLY WITH THE REQUIREMENTS OF THE MUTCD. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN STAMPED AND SIGNED BY A LICENSED ENGINEER.

GRADING NOTES

1. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL STRIP AND CLEAR THE VEGETATION, MAJOR ROOTS AND ORGANIC MATERIAL (ASSUME 6" DEPTH) FROM ALL PROPOSED BUILDING AND PAVEMENT AREAS PRIOR TO SITE GRADING.
3. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL GRADE THE PROJECT SITE TO PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING ASPHALT, CURB AND GUTTER, AND ADJOINING SITE IMPROVEMENTS.
5. CONTRACTOR SHALL ENSURE FINISHED GRADE SLOPES AWAY FROM ALL STRUCTURES ACCORDING TO BUILDING CODES AND AS SHOWN ON THIS PLAN.
6. CONTRACTOR SHALL USE APPROPRIATELY SIZED EQUIPMENT FOR PROJECT WORK. CONTRACTOR SHALL NOT PERFORM WORK ON SATURATED SUBGRADE. CONTRACTOR SHALL NOT USE EQUIPMENT OR PERFORM THE WORK IN A WAY THAT CAUSES SHEAR FAILURE (PUMPING) OF THE SUBGRADE OR OF ANY OVERLYING LAYER BEING PLACED.
7. ALL STREET LIGHTS SHALL BE INSTALLED AT OR ABOVE ADJACENT TOP BACK OF CURB ELEVATION.

UTILITY/DRAINAGE NOTES

1. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE. ENSURE ALL OSHA STANDARDS ARE FOLLOWED.
2. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION. CONTRACTOR SHALL CONTROL SURFACE AND GROUND WATER WITHIN THE WORK ZONE AS NEEDED TO CONSTRUCT THE WORK ACCORDING TO SPECIFICATION REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE UTILITY & DRAINAGE ACCESS POINTS MATCH THE FINISHED GRADE. RISERS & WATER VALVE EXTENSIONS MAY BE NECESSARY, PARTICULARLY AT DEEP INSTALLATIONS.
4. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
5. ALL UTILITY SERVICE ENTRY POINTS SHOWN ARE APPROXIMATE LOCATIONS ONLY.

EROSION NOTES

1. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH ALL U.P.D.E.S. PERMIT REQUIREMENTS AND TO PREPARE A STORMWATER POLLUTION PREVENTION PLAN TO DEFINE SITE SURFACE WATER PROTECTION OBJECTIVES. COMPLIANCE WITH THE SARATOGA SPRINGS MS4 IS REQUIRED. DOCUMENTED SWPPP INSPECTIONS ARE REQUIRED.
2. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ONSITE EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL FACILITIES SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DRAINAGE AND EROSION CONTROL FACILITIES AS REQUIRED. STREETS SHALL BE KEPT CLEAN OF DEBRIS FROM SITE TRAFFIC. IN ADDITION TO REGULAR CONTRACTOR INSPECTIONS, STREETS SHALL BE SWEPT UPON CITY AND OWNER REQUEST.
4. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY, AND REMOVED AT COMPLETION OF PROJECT.
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE CITY OR COUNTY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
6. CONTRACTOR SHALL BE RESPONSIBLE OF ALL SWPPP SYSTEMS. CITY INSPECTOR MUST APPROVE THE REMOVAL OF ALL SWPPP DEVICES.
7. CONTRACTOR MAY REMOVE TEMPORARY INLET PROTECTION DEVICES AND SILT FENCING AFTER PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
8. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION (70% MIN.). EROSION CONTROL STRUCTURES IN PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE, AND LANDSCAPE DRAINING ON TO PAVEMENT IS COMPLETE.
9. THE SWPPP BOOK AND UPDES PERMIT WILL BE PROVIDED BY THE CONTRACTOR PRIOR TO WORK AND KEPT ON-SITE THROUGHOUT THE PROJECT.
10. CONTRACTOR SHALL USE A STABILIZED ROADWAY ENTRANCE AT ALL ENTRANCES TO THE WORK SITE.

TIMPANOGOS SPECIAL SERVICE DISTRICT NOTES

1. ALL TIMPANOGOS SPECIAL SERVICE DISTRICT MANHOLES SHALL BE ADJUSTED/RAISED/LOWERED IN ACCORDANCE WITH TSSD STANDARD DETAILS. DETAILS D-19 AND D-23 SHALL BE USED ON 66" POLYMER PIPE MANHOLES, AND DETAIL D-25 SHALL BE USED ON 54" CONCRETE PIPE MANHOLES, INCLUDED IN DETAIL SHEETS.
2. CONTACT DISTRICT INSPECTOR SCOTT RACKMAN (801-420-4669) AT LEAST 48 HOURS PRIOR TO ANY WORK ON TSSD FACILITIES.

ABBREVIATIONS

EX	EXISTING	FL	FLOW LINE
PROP	PROPOSED	LF	LINEAR FEET
BP	BEGINNING POINT	DI	DUCTILE IRON
EP	END POINT	RCP	REINFORCED CONCRETE PIPE
POB	POINT OF BEGINNING	MH	MANHOLE
PI	POINT OF INTERSECTION	CB	CATCH BASIN
PC	POINT OF CURVATURE	COB	CLEAN OUT BOX
PT	POINT OF TANGENCY	STM	STORM
PCC	POINT OF COMPOUND CURVE	SWR	SEWER
PRC	POINT OF REVERSE CURVE	WTR	WATER
PVI	POINT OF VERTICAL INTERSECTION	IRR	IRRIGATION
PVC	POINT OF VERTICAL CURVE	ICV	IRRIGATION CONTROL VALVE
PVT	POINT OF VERTICAL TANGENCY	SD	STORM DRAIN
ROW OR R/W	RIGHT OF WAY	SS	SANITARY SEWER
		HMA	HOT MIX ASPHALT
PUE	PUBLIC UTILITY EASEMENT	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
STA	STATION	APWA	AMERICAN PUBLIC WORKS ASSOCIATION
N	NORTHING	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
E	EASTING	OAE	OR APPROVED EQUIVALENT
R	RADIUS	TBR	TO BE REMOVED
D	DELTA	REQ'D	REQUIRED
L	LENGTH	TYP	TYPICAL
T	TANGENT	UTBC	UNTREATED BASE COURSE
CB	CHORD BEARING	OM	OBJECT MARKER
CL	CHORD LENGTH	C&G	CURB & GUTTER
TBC	TOP BACK CURB	SWL	SOLID WHITE LINE
TA	TOP OF ASPHALT	SYL	SOLID YELLOW LINE
TC	TOP OF CONCRETE	DYL	DOUBLE YELLOW LINE
FG	FINISHED GRADE	BWL	BROKEN WHITE LINE
EG	EXISTING GRADE	BYL	BROKEN YELLOW LINE
FF	FINISHED FLOOR ELEVATION	FH	FIRE HYDRANT
ELEV	ELEVATION		
FL	FLOW LINE		

BID SET

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE:
SURVEY BY:
DRAWN BY :
DESIGNED BY :
CHECKED BY :
SCALE : 1"=10'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GENERAL NOTES

DWG\00-TITLE-00
DRAWING FILE

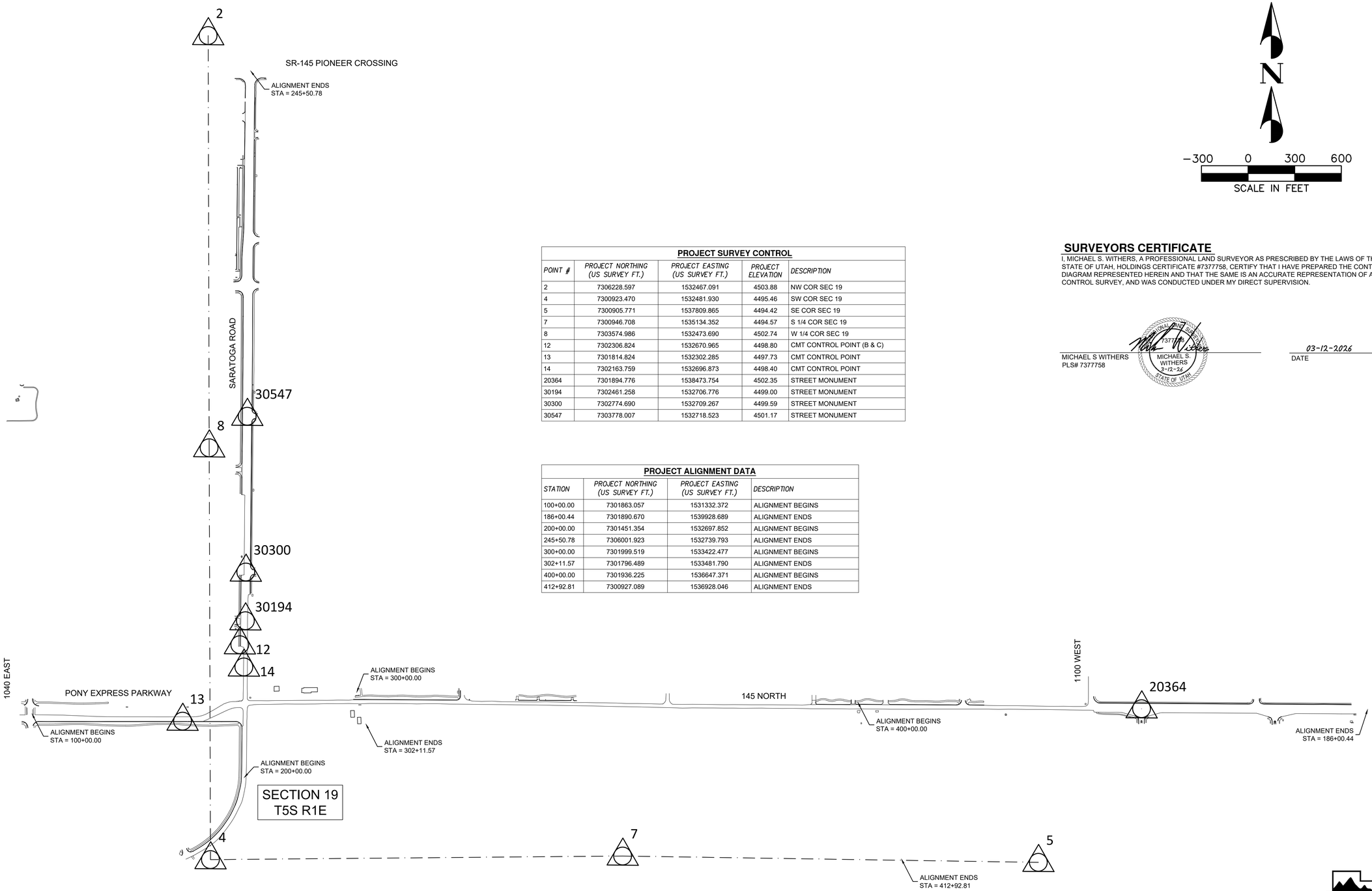
1005.2317
PROJECT NUMBER

MARCH 12, 2026
LAST REVISED

SARATOGA SP.
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4859908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C0.1



PROJECT SURVEY CONTROL

POINT #	PROJECT NORTHING (US SURVEY FT.)	PROJECT EASTING (US SURVEY FT.)	PROJECT ELEVATION	DESCRIPTION
2	7306228.597	1532467.091	4503.88	NW COR SEC 19
4	7300923.470	1532481.930	4495.46	SW COR SEC 19
5	7300905.771	1537809.865	4494.42	SE COR SEC 19
7	7300946.708	1535134.352	4494.57	S 1/4 COR SEC 19
8	7303574.986	1532473.690	4502.74	W 1/4 COR SEC 19
12	7302306.824	1532670.965	4498.80	CMT CONTROL POINT (B & C)
13	7301814.824	1532302.285	4497.73	CMT CONTROL POINT
14	7302163.759	1532696.873	4498.40	CMT CONTROL POINT
20364	7301894.776	1538473.754	4502.35	STREET MONUMENT
30194	7302461.258	1532706.776	4499.00	STREET MONUMENT
30300	7302774.690	1532709.267	4499.59	STREET MONUMENT
30547	7303778.007	1532718.523	4501.17	STREET MONUMENT

PROJECT ALIGNMENT DATA

STATION	PROJECT NORTHING (US SURVEY FT.)	PROJECT EASTING (US SURVEY FT.)	DESCRIPTION
100+00.00	7301863.057	1531332.372	ALIGNMENT BEGINS
186+00.44	7301890.670	1539928.689	ALIGNMENT ENDS
200+00.00	7301451.354	1532697.852	ALIGNMENT BEGINS
245+50.78	7306001.923	1532739.793	ALIGNMENT ENDS
300+00.00	7301999.519	1533422.477	ALIGNMENT BEGINS
302+11.57	7301796.489	1533481.790	ALIGNMENT ENDS
400+00.00	7301936.225	1536647.371	ALIGNMENT BEGINS
412+92.81	7300927.089	1536928.046	ALIGNMENT ENDS

SURVEYORS CERTIFICATE

I, MICHAEL S. WITHERS, A PROFESSIONAL LAND SURVEYOR AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH, HOLDINGS CERTIFICATE #7377758, CERTIFY THAT I HAVE PREPARED THE CONTROL DIAGRAM REPRESENTED HEREIN AND THAT THE SAME IS AN ACCURATE REPRESENTATION OF A CONTROL SURVEY, AND WAS CONDUCTED UNDER MY DIRECT SUPERVISION.

MICHAEL S WITHERS
PLS# 7377758

03-12-2026
DATE

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=300'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
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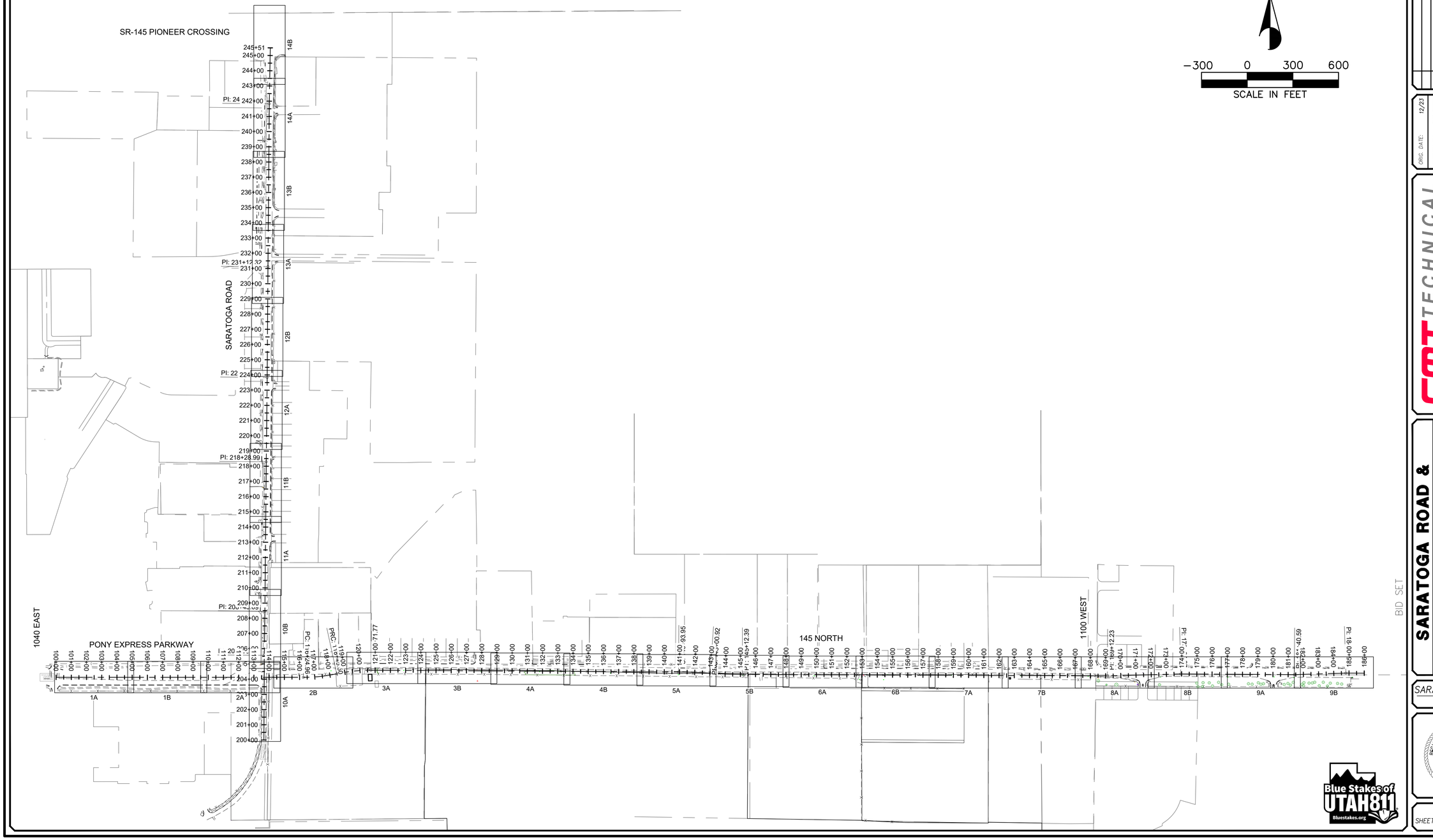
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS
SURVEY CONTROL SHEET
DWG\00-TITLE-01 DRAWING FILE
1005.2317 PROJECT NUMBER
MARCH 12, 2026 LAST REVISED

BID SET

SARATOGA SPRINGS
CITY

SHEET NO. C0.2



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−300 0 300 600

SCALE IN FEET

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY : RPB/AJP
DESIGNED BY : RPB
CHECKED BY : TDB
SCALE : 1"=300'

CMT TECHNICAL SERVICES
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SHEET INDEX

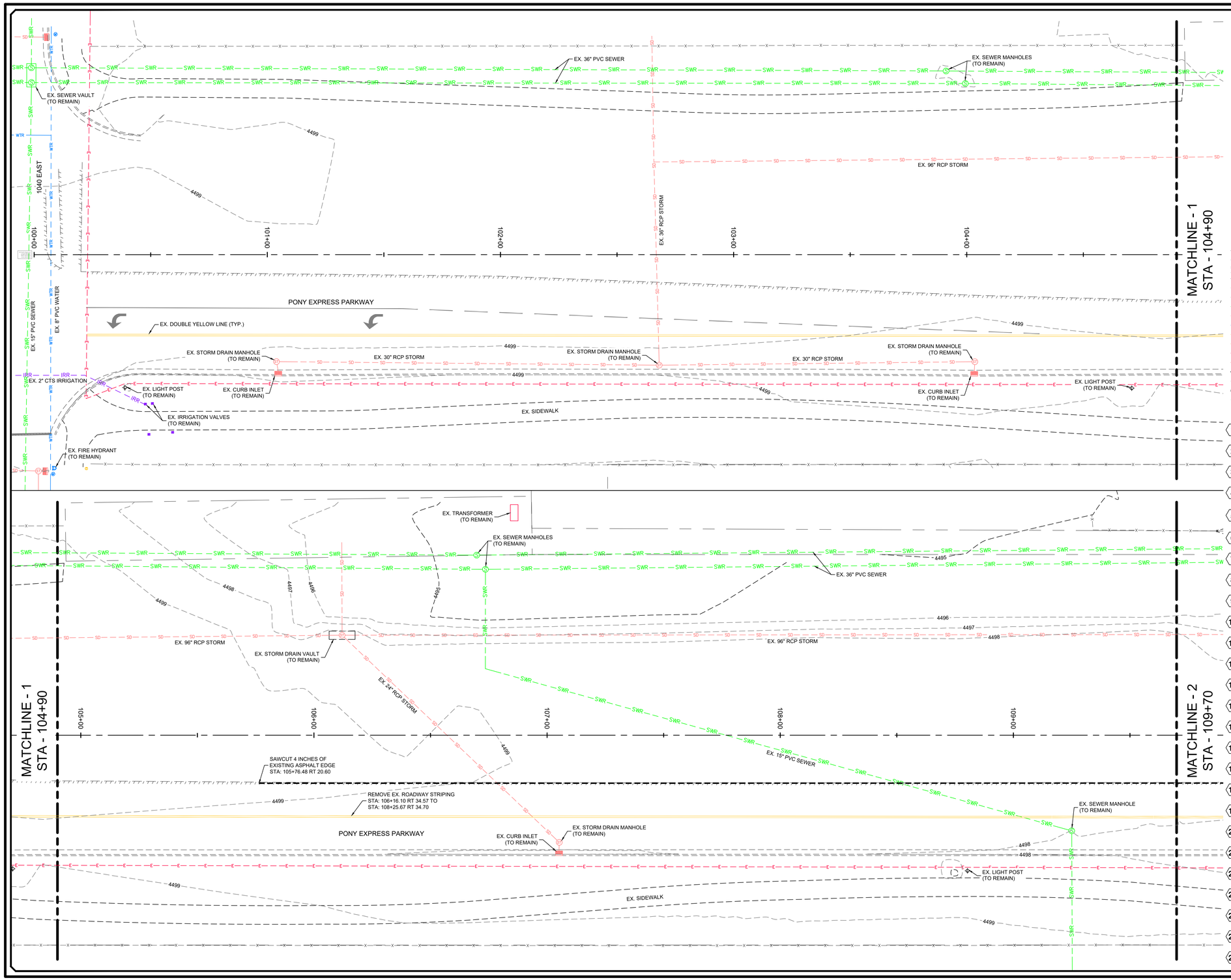
MARCH 12, 2026 | DWG \01-DEMO
1005.2317 | DRAWING FILE
PROJECT NUMBER | LAST REVISED

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

Blue Stakes of UTAH 811
Bluestakes.org

SHEET NO. C1.0



LEGEND

- EXISTING 5' CONTOUR (4500)
- EXISTING 1' CONTOUR (4501)
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- RIGHT OF WAY
- PROPOSED SAWCUT
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

1. EX. ASPHALT (TO BE REMOVED WITH BASE COURSE, HATCHED AREA)
2. EX. CONCRETE (TO BE REMOVED, HATCHED AREA)
3. EX. CURB & GUTTER (TO BE REMOVED)
4. EX. GRAVEL (TO BE REMOVED, HATCHED AREA)
5. EX. ASPHALT (REMOVE ASPHALT, CEMENT TREAT BASE COURSE, HATCHED AREA)
6. EX. WATER VALVE (ADJUST TO GRADE)
7. EX. WATER METER (TO BE RELOCATED)
8. EX. WATER MANHOLE (ADJUST TO GRADE)
9. EX. IRRIGATION VALVE (RELOCATE/ADJUST TO GRADE)
10. EX. IRRIGATION MANHOLE (ADJUST TO GRADE)
11. EX. STORM DRAIN MANHOLE (ADJUST TO GRADE)
12. EX. STORM DRAIN PIPE (TO BE REMOVED)
13. EX. SEWER MANHOLE (ADJUST TO GRADE)
14. EX. TELECOMMS PEDESTAL (TO BE RELOCATED)
15. EX. MAILBOX (TO BE RELOCATED)
16. EX. FENCE (TO BE REMOVED)
17. EX. ROAD SIGN (TO BE REMOVED)
18. EX. POWER POLE (TO BE REMOVED & LINES TO BE BURIED)
19. EX. UTILITY VALVE (ADJUST TO GRADE)
20. EX. TRANSFORMER (TO BE RELOCATED)
21. EX. ELECTRICAL PEDESTAL (TO BE RELOCATED)
22. EX. LIGHT POST (TO BE RELOCATED)
23. EX. BUILDING (TO BE REMOVED)
24. EX. CONCRETE WALL (TO BE REMOVED)
25. EX. ASPHALT (5" MILL & OVERLAY, HATCHED AREA)
26. EX. TREE (TO BE REMOVED)

Blue Stakes of UTAH 811 Bluestakes.org

BID SET

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE:	12/23
SURVEY BY:	CMT CREW
DRAWN BY:	RPB/AJP
DESIGNED BY:	RPB
CHECKED BY:	TDB
SCALE:	1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

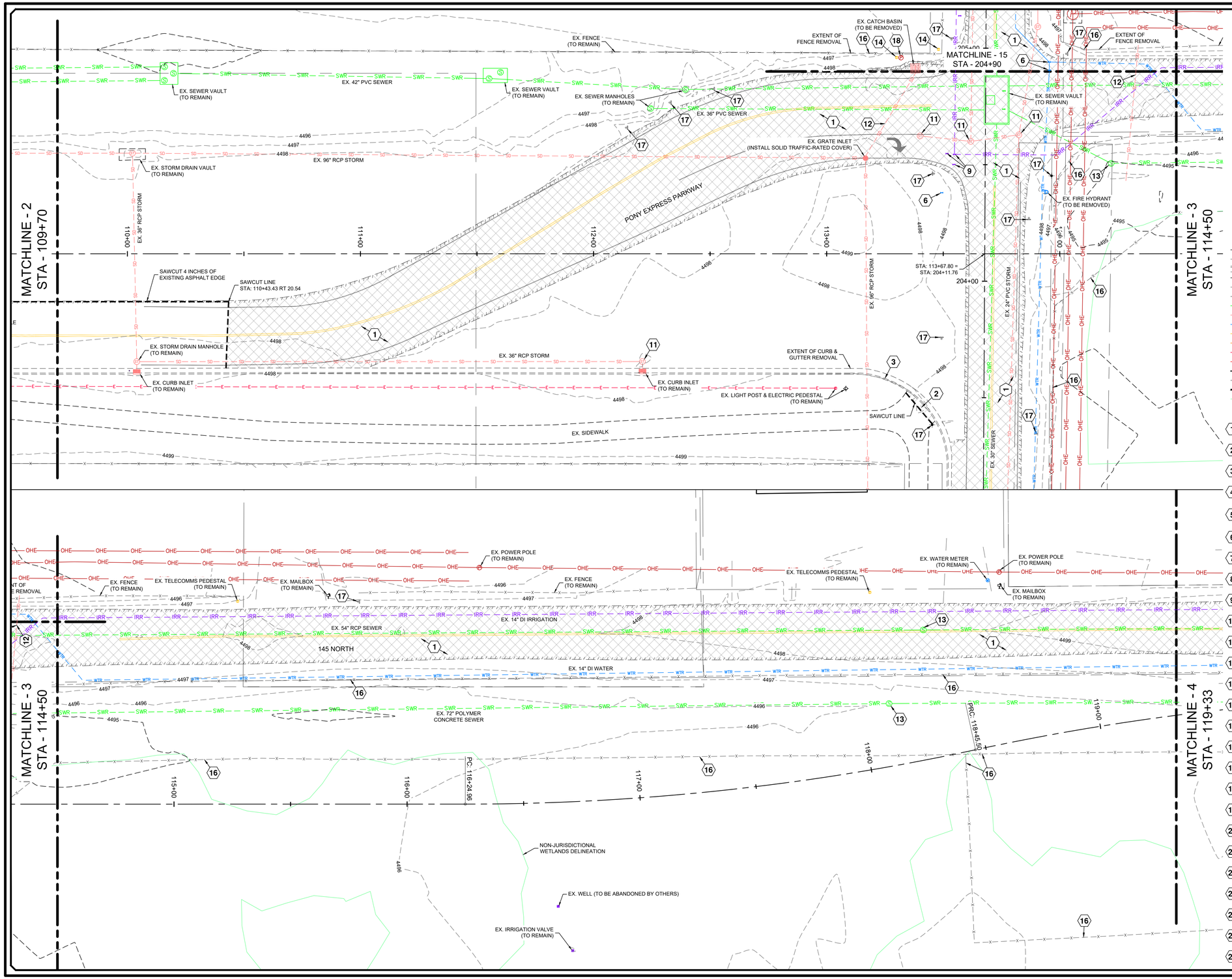
EXISTING CONDITIONS PLAN
100+00 ~ 109+70

MARCH 12, 2026	DWG\01-DEMO
LAST REVISED	DRAWING FILE
	1005.2317
	PROJECT NUMBER

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.1



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SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- RIGHT OF WAY
- PROPOSED SAWCUT
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

1. EX. ASPHALT (TO BE REMOVED WITH BASE COURSE, HATCHED AREA)
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3. EX. CURB & GUTTER (TO BE REMOVED)
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17. EX. ROAD SIGN (TO BE REMOVED)
18. EX. POWER POLE (TO BE REMOVED & LINES TO BE BURIED)
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

EXISTING CONDITIONS PLAN
109+70 ~ 119+33

DWG \01-DEMO
DRAWING FILE

MARCH 12, 2026
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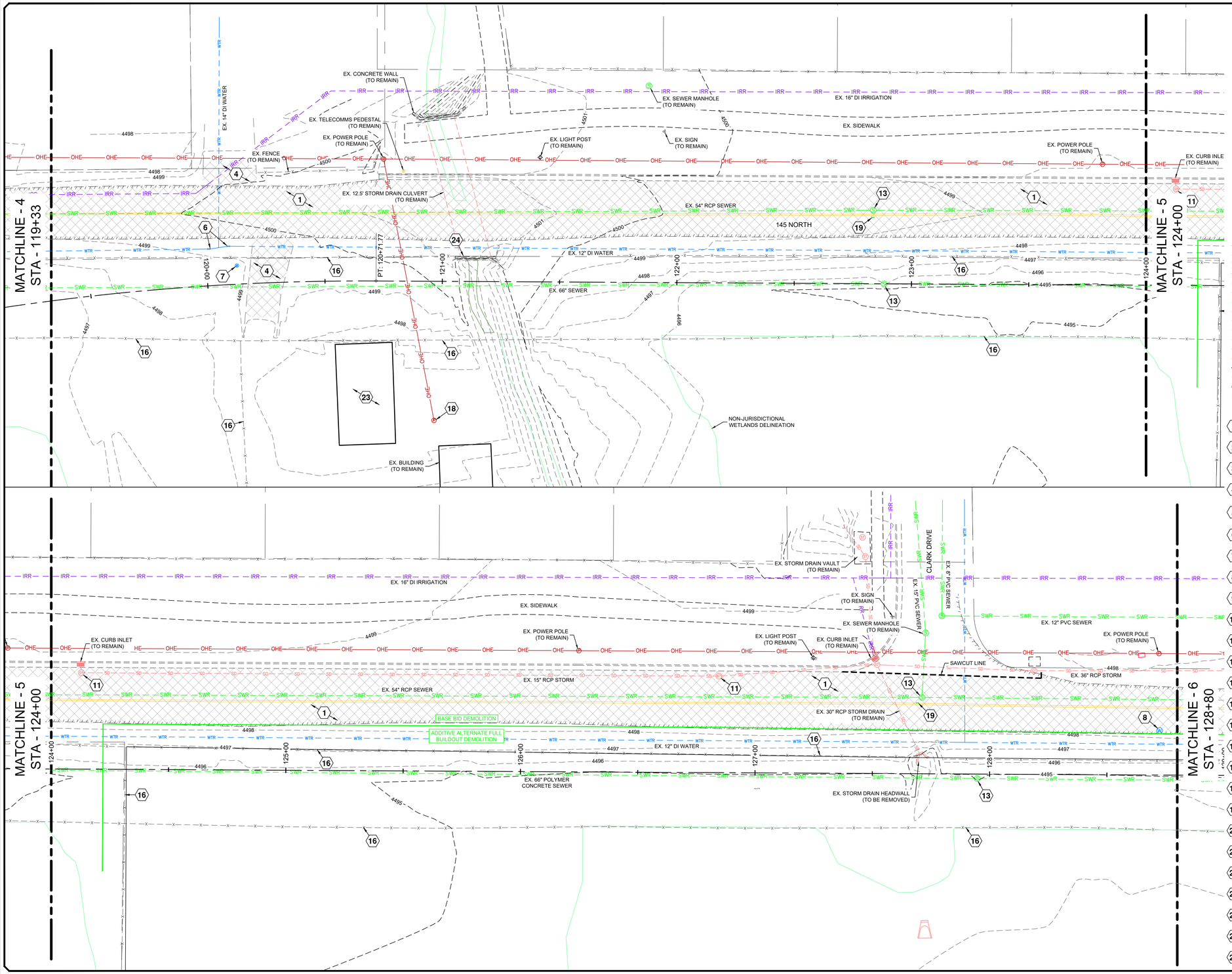
PROJECT NUMBER

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4839908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

Blue Stakes of UTAH 811
Bluestakes.org

SHEET NO. C1.2



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SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
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Blue Stakes of UTAH 811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

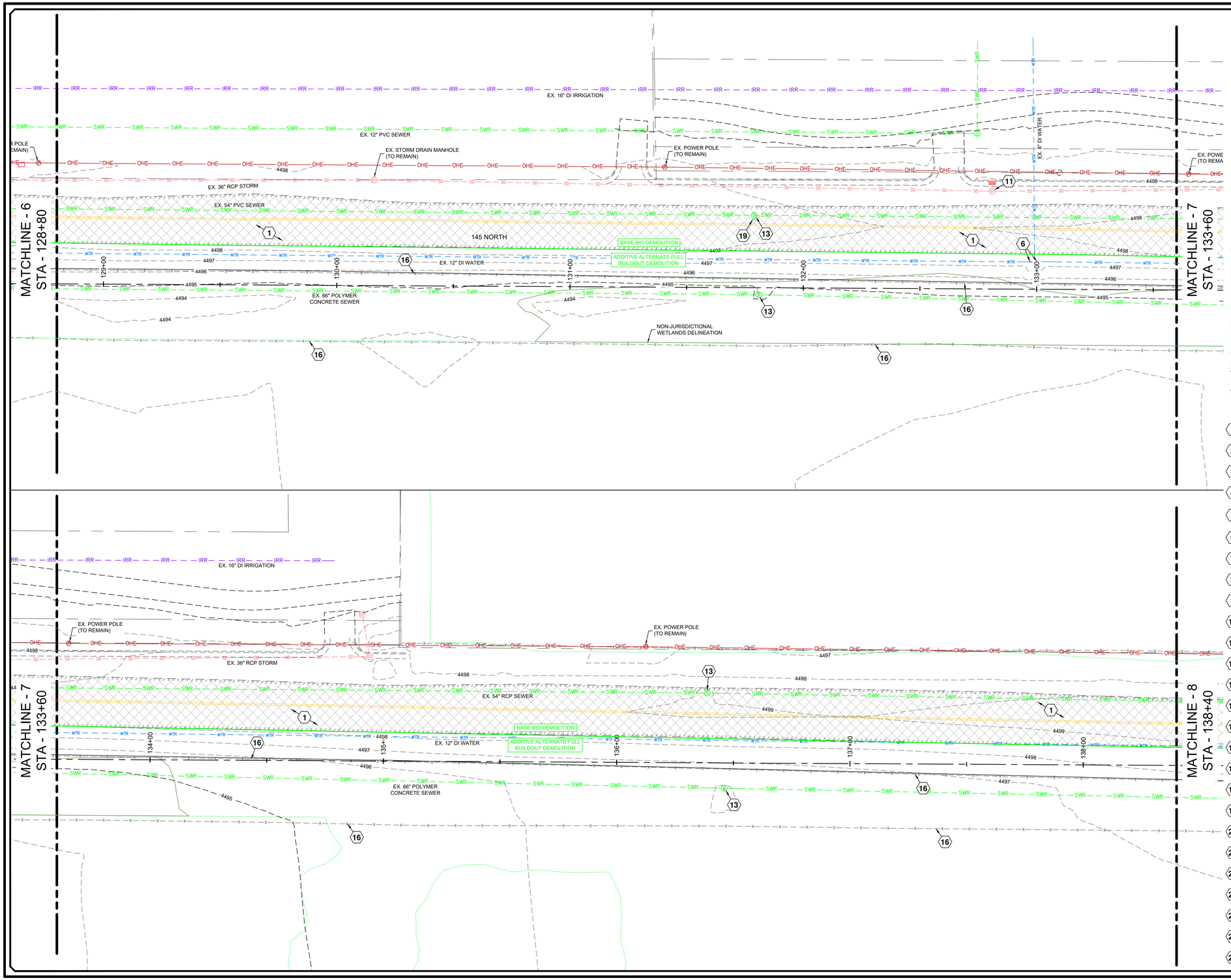
EXISTING CONDITIONS PLAN
119+33 ~ 128+80

DWG\01-DEMO DRAWING FILE
1005.2317 PROJECT NUMBER
MARCH 12, 2026 LAST REVISED

SARATOGA SPRINGS CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.3



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SCALE IN FEET

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- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
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- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
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Blue Stakes of UTAH 811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

EXISTING CONDITIONS PLAN
128+80 ~ 138+40

DWG 01-DEMO
DRAWING FILE

1005.2317
PROJECT NUMBER

MARCH 12, 2026
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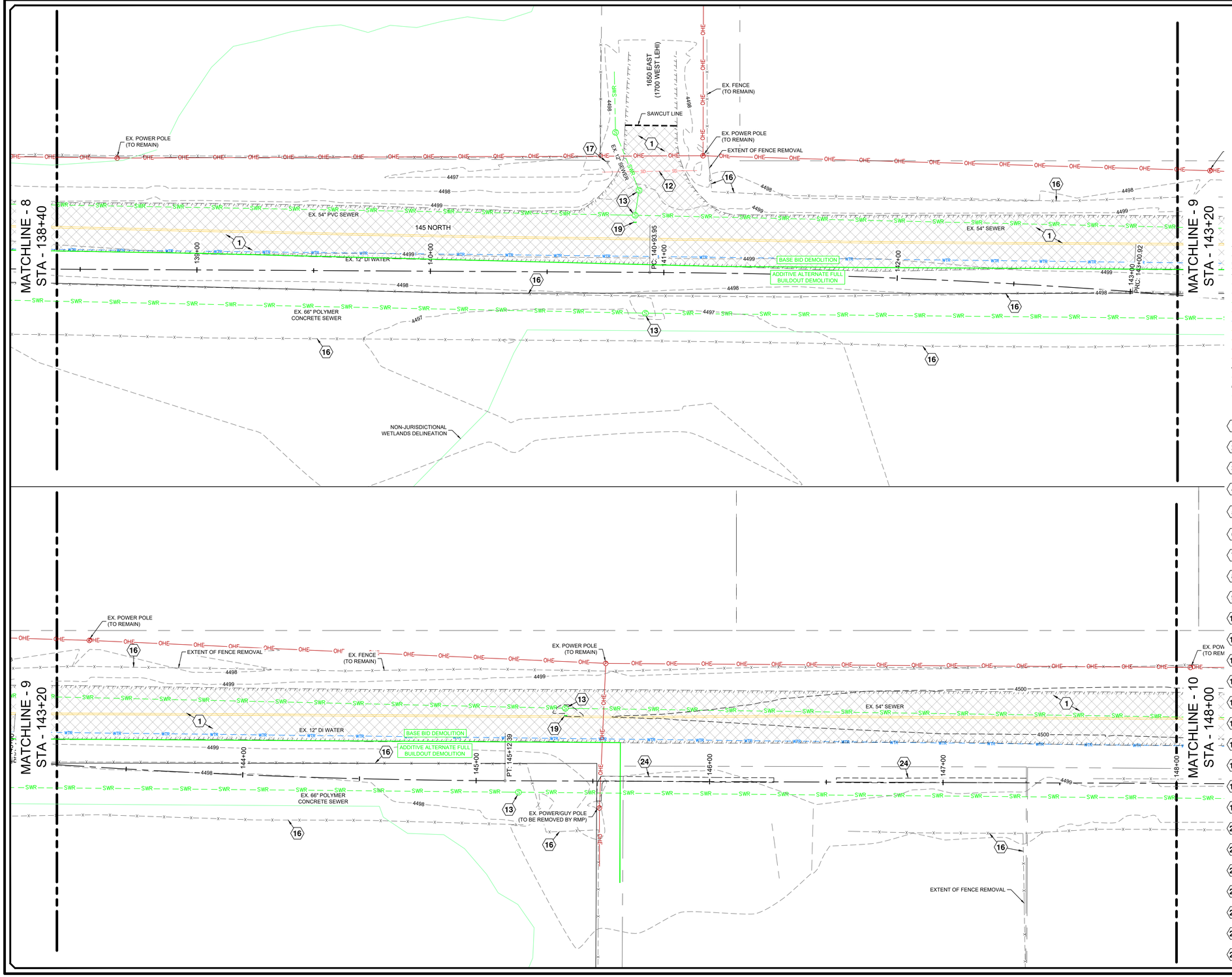
SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4839908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.4



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SCALE IN FEET

LEGEND

- 4500 EXISTING 5' CONTOUR
- 4501 EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- SWR EXISTING SEWER LINE
- SD EXISTING STORM DRAIN LINE
- WTR EXISTING WATER LINE
- T EXISTING TELEPHONE LINE
- G EXISTING GAS LINE
- E EXISTING ELECTRICAL
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Blue Stakes of UTAH 811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

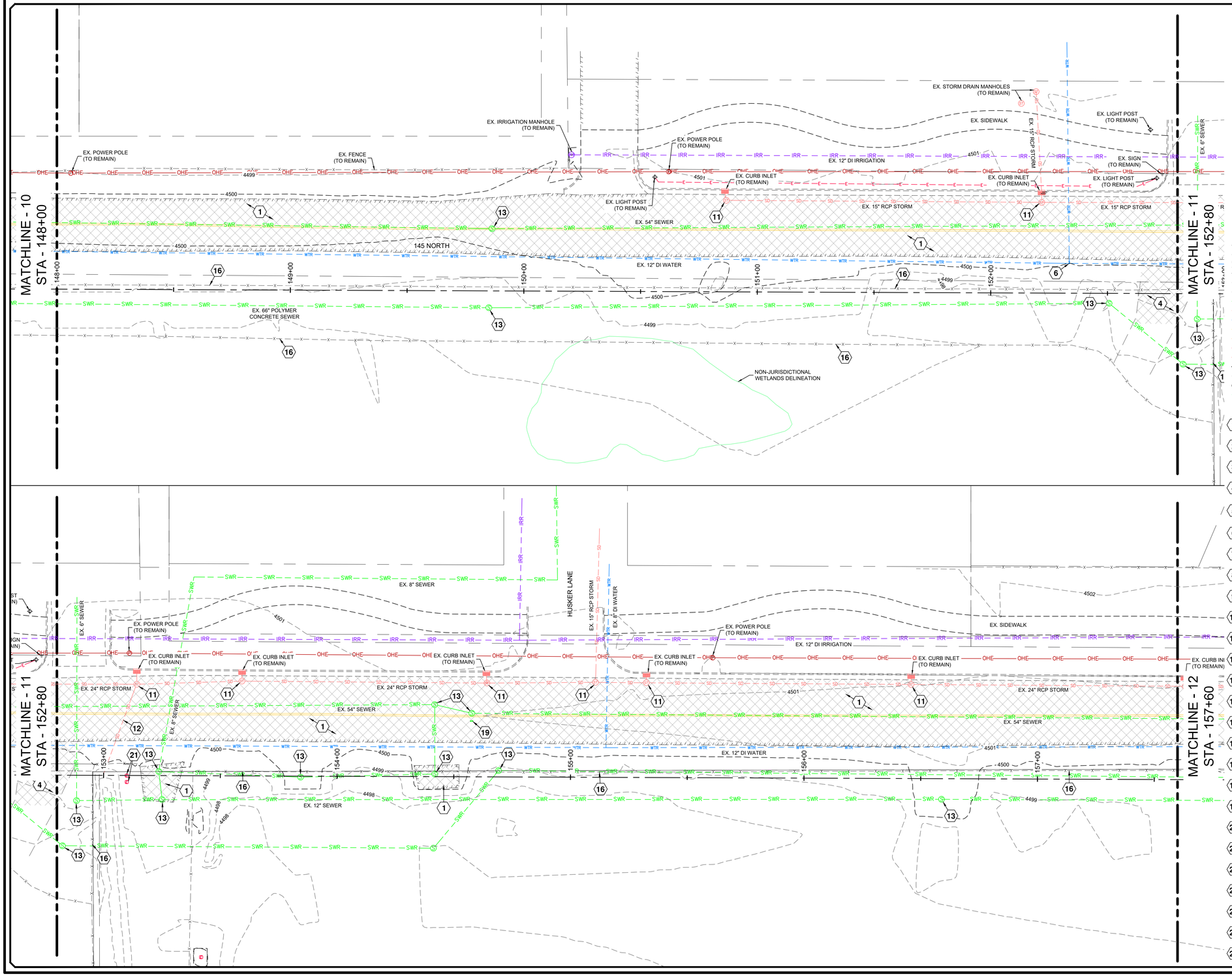
EXISTING CONDITIONS PLAN
138+40 ~ 148+00

DWG	01-DEMO
DRAWING FILE	
PROJECT NUMBER	1005.2317
LAST REVISED	MARCH 12, 2026

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4839908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.5



N

−20 0 20 40

SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
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Blue Stakes of UTAH 811 Bluestakes.org

BID SET

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

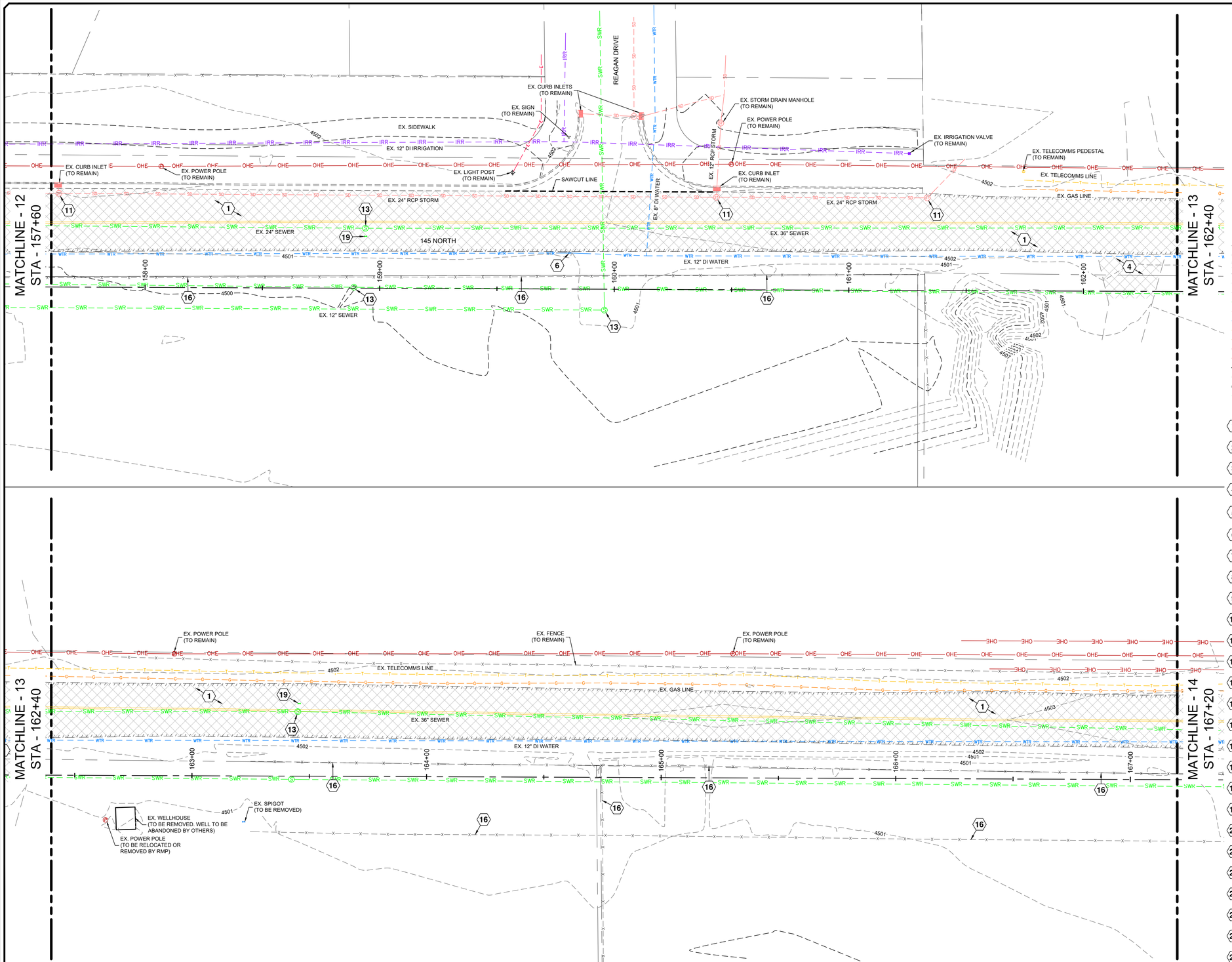
EXISTING CONDITIONS PLAN
148+00 ~ 157+60

MARCH 12, 2026 | LAST REVISED | 1005.2317 PROJECT NUMBER | DWG\01-DEMO DRAWING FILE

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4809808-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.6



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SCALE IN FEET

LEGEND

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

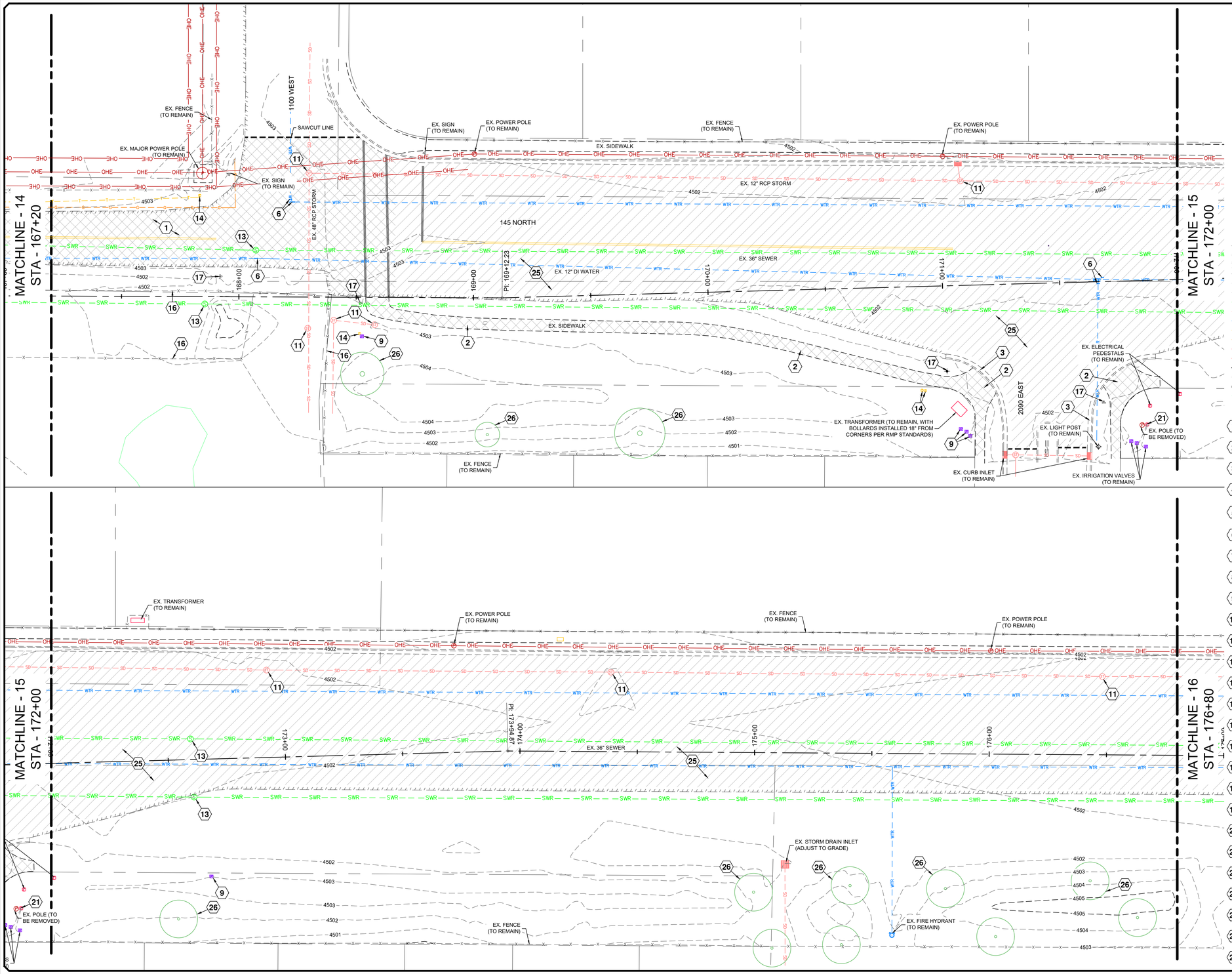
EXISTING CONDITIONS PLAN
157+60 ~ 167+20

DRAWING FILE	DWG\01-DEMO
PROJECT NUMBER	1005.2317
LAST REVISED	MARCH 12, 2026

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.7



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−20 0 20 40

SCALE IN FEET

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8. EX. WATER MANHOLE (ADJUST TO GRADE)
9. EX. IRRIGATION VALVE (RELOCATE/ADJUST TO GRADE)
10. EX. IRRIGATION MANHOLE (ADJUST TO GRADE)
11. EX. STORM DRAIN MANHOLE (ADJUST TO GRADE)
12. EX. STORM DRAIN PIPE (TO BE REMOVED)
13. EX. SEWER MANHOLE (ADJUST TO GRADE)
14. EX. TELECOMMS PEDESTAL (TO BE RELOCATED)
15. EX. MAILBOX (TO BE RELOCATED)
16. EX. FENCE (TO BE REMOVED)
17. EX. ROAD SIGN (TO BE REMOVED)
18. EX. POWER POLE (TO BE REMOVED & LINES TO BE BURIED)
19. EX. UTILITY VALVE (ADJUST TO GRADE)
20. EX. TRANSFORMER (TO BE RELOCATED)
21. EX. ELECTRICAL PEDESTAL (TO BE RELOCATED)
22. EX. LIGHT POST (TO BE RELOCATED)
23. EX. BUILDING (TO BE REMOVED)
24. EX. CONCRETE WALL (TO BE REMOVED)
25. EX. ASPHALT (5" MILL & OVERLAY, HATCHED AREA)
26. EX. TREE (TO BE REMOVED)

BID SET

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE:	12/23
SURVEY BY:	CMT CREW
DRAWN BY:	RPB/AJP
DESIGNED BY:	RPB
CHECKED BY:	TDB
SCALE:	1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

EXISTING CONDITIONS PLAN
167+20 ~ 171+35

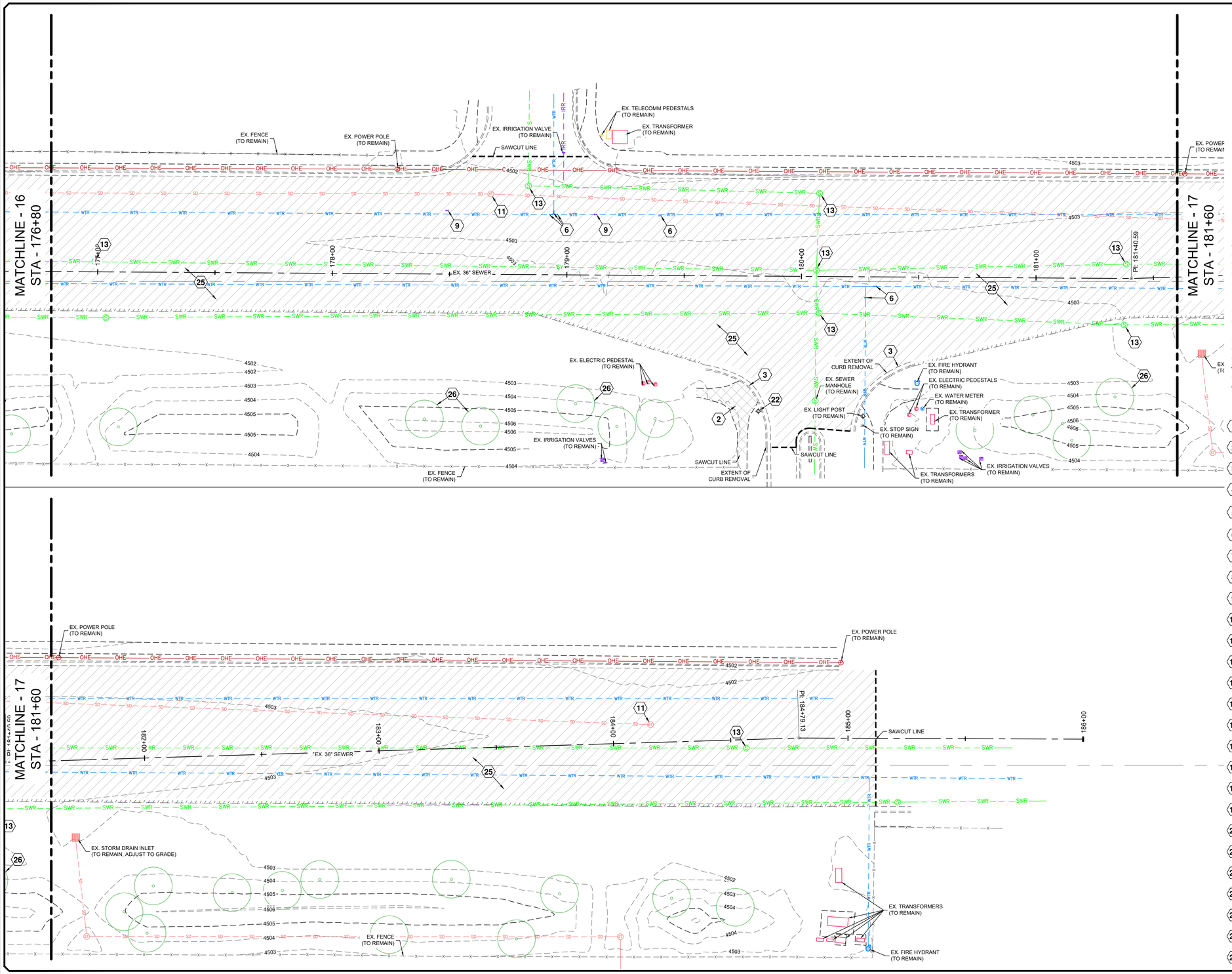
DWG \ 01-DEMO	DRAWING FILE
1005.2317	PROJECT NUMBER
MARCH 12, 2026	LAST REVISED

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

Blue Stakes of UTAH 811
Bluestakes.org

SHEET NO. C1.8



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SCALE IN FEET

LEGEND

- 4500 EXISTING 5' CONTOUR
- 4501 EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- RIGHT OF WAY
- PROPOSED SAWCUT
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

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Blue Stakes of UTAH 811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

EXISTING CONDITIONS PLAN
167+20 ~ 171+35

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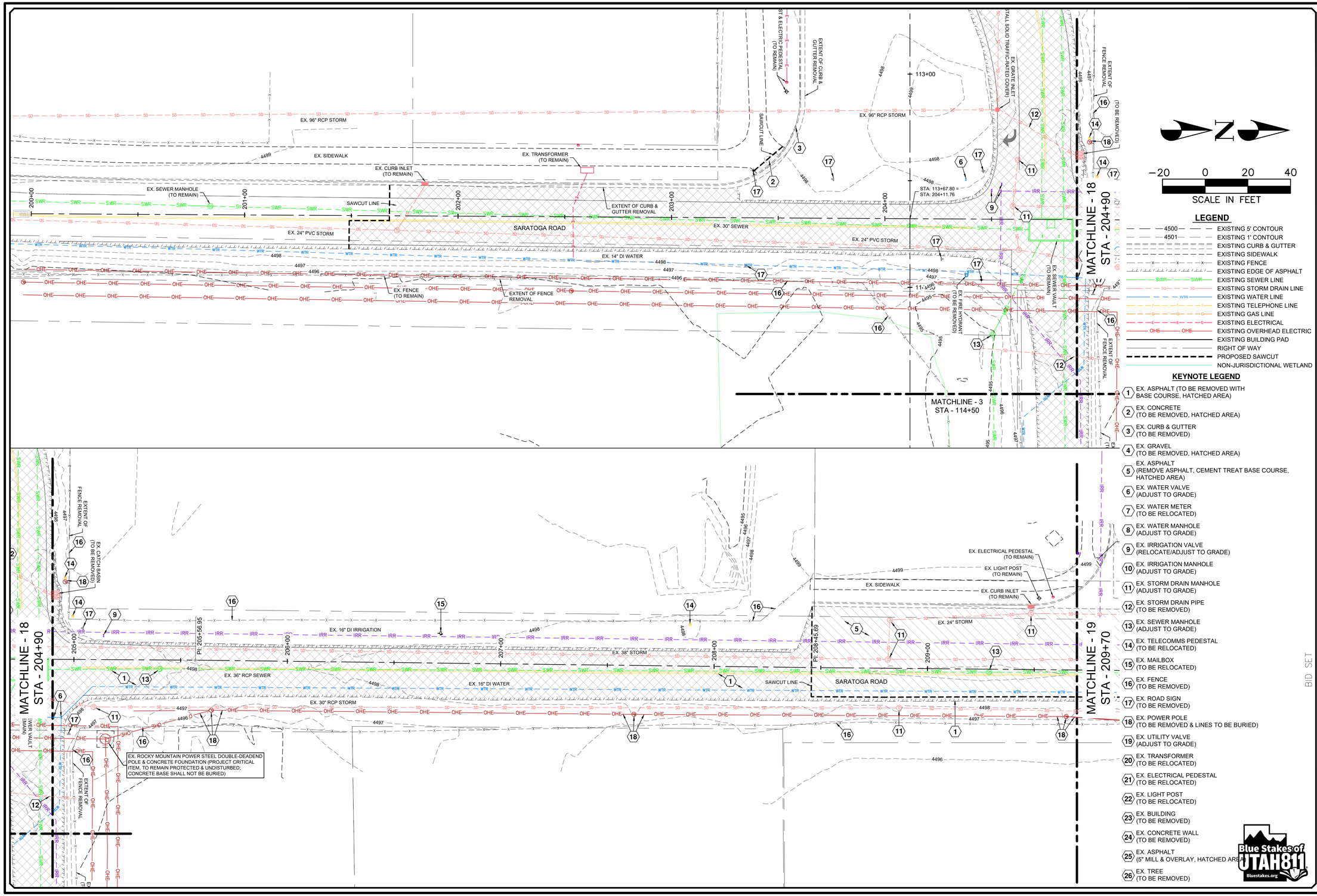
SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4959908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.9



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SCALE IN FEET

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

EXISTING CONDITIONS PLAN
200+00 ~ 209+70

MARCH 12, 2026	DWG \01-DEMO
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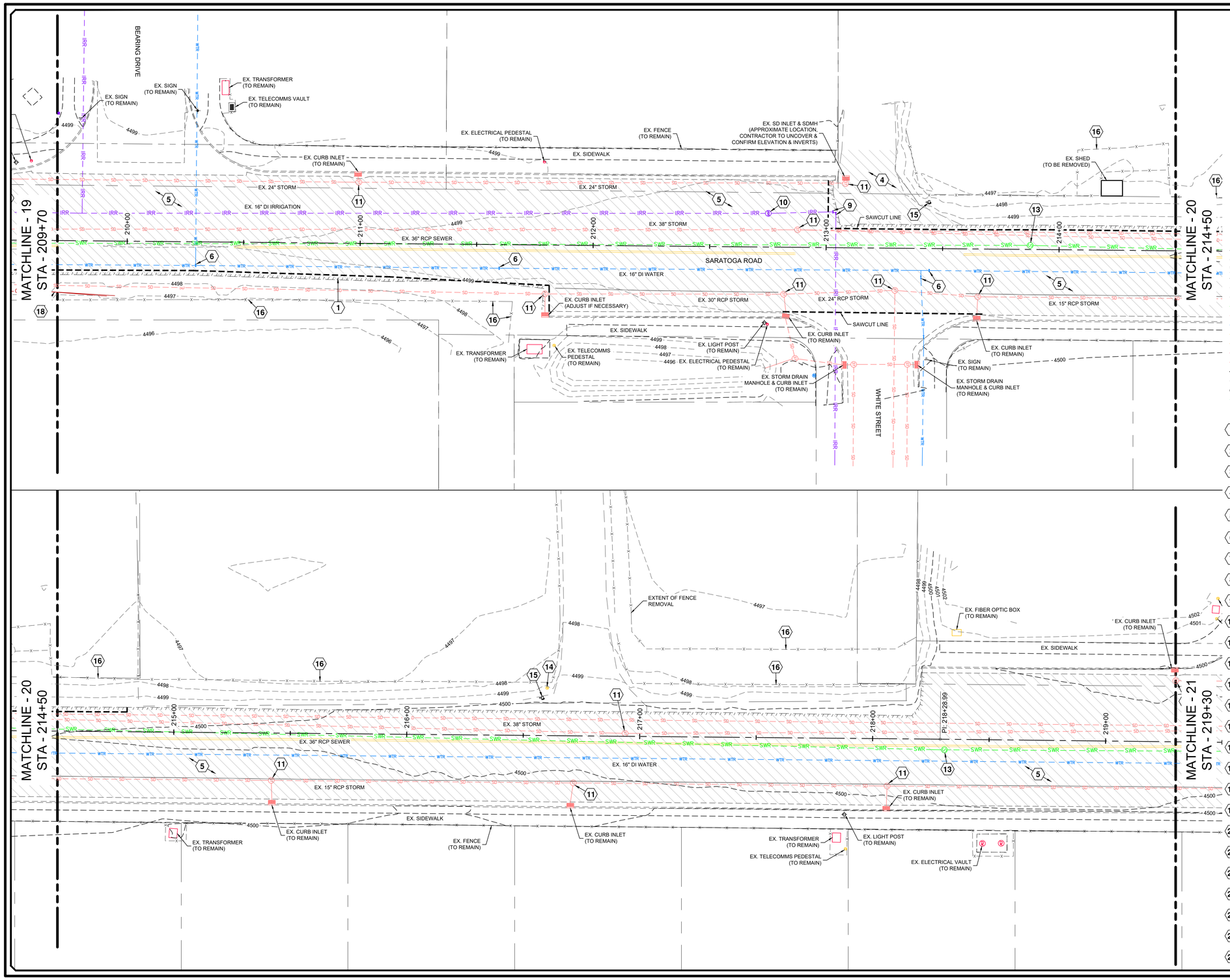
PROJECT NUMBER	

SARATOGA SPRINGS CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.10



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SCALE IN FEET

LEGEND

- 4500 — EXISTING 5' CONTOUR
- 4501 — EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- SWR — EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- WTR — EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
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Blue Stakes of UTAH811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

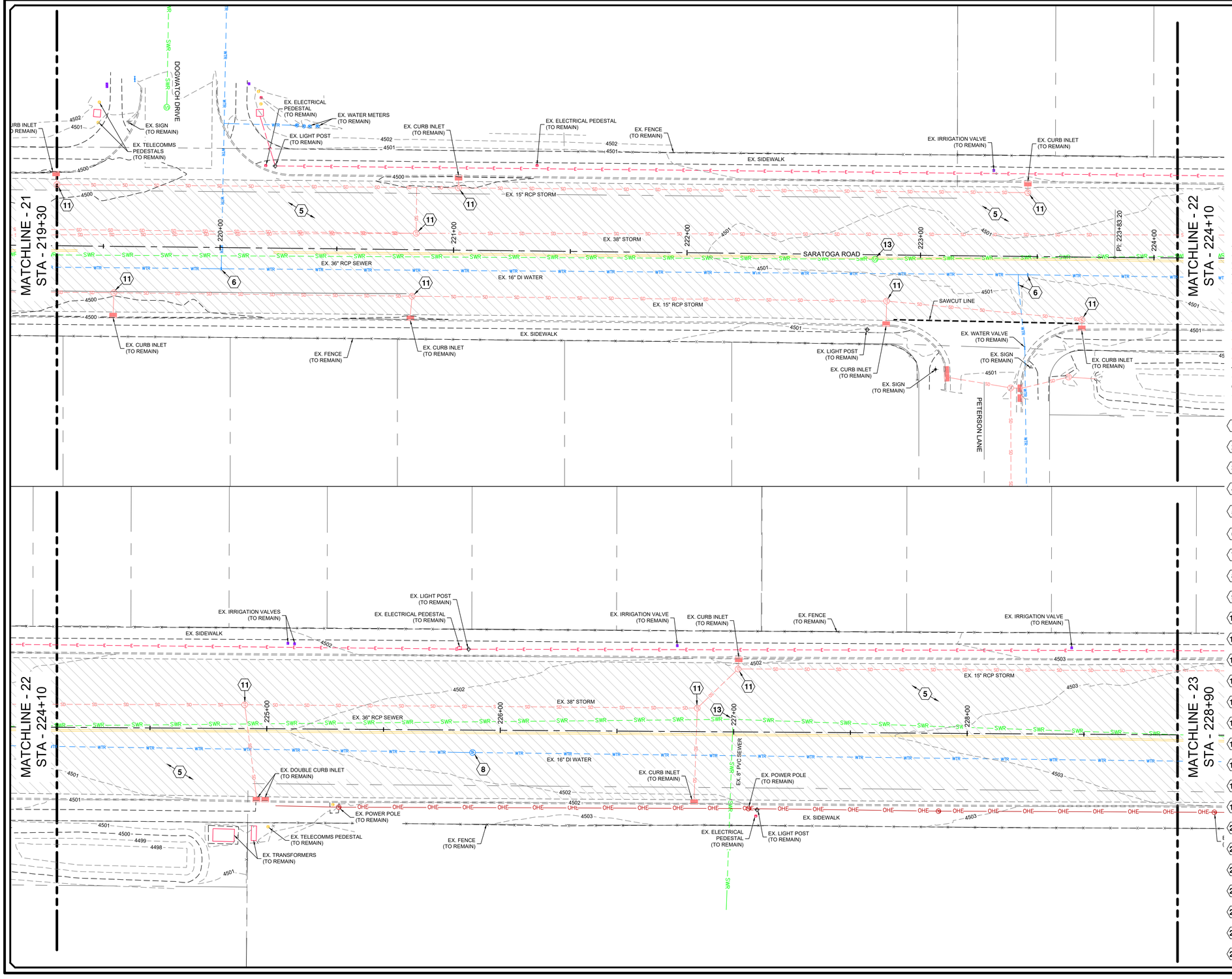
EXISTING CONDITIONS PLAN 209+70 ~ 219+30

DWG\01-DEMO	DRAWING FILE
1005.2317	PROJECT NUMBER
MARCH 12, 2026	LAST REVISED

SARATOGA SPRINGS CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.11



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SCALE IN FEET

LEGEND

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BID SET

Blue Stakes of UTAH 811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

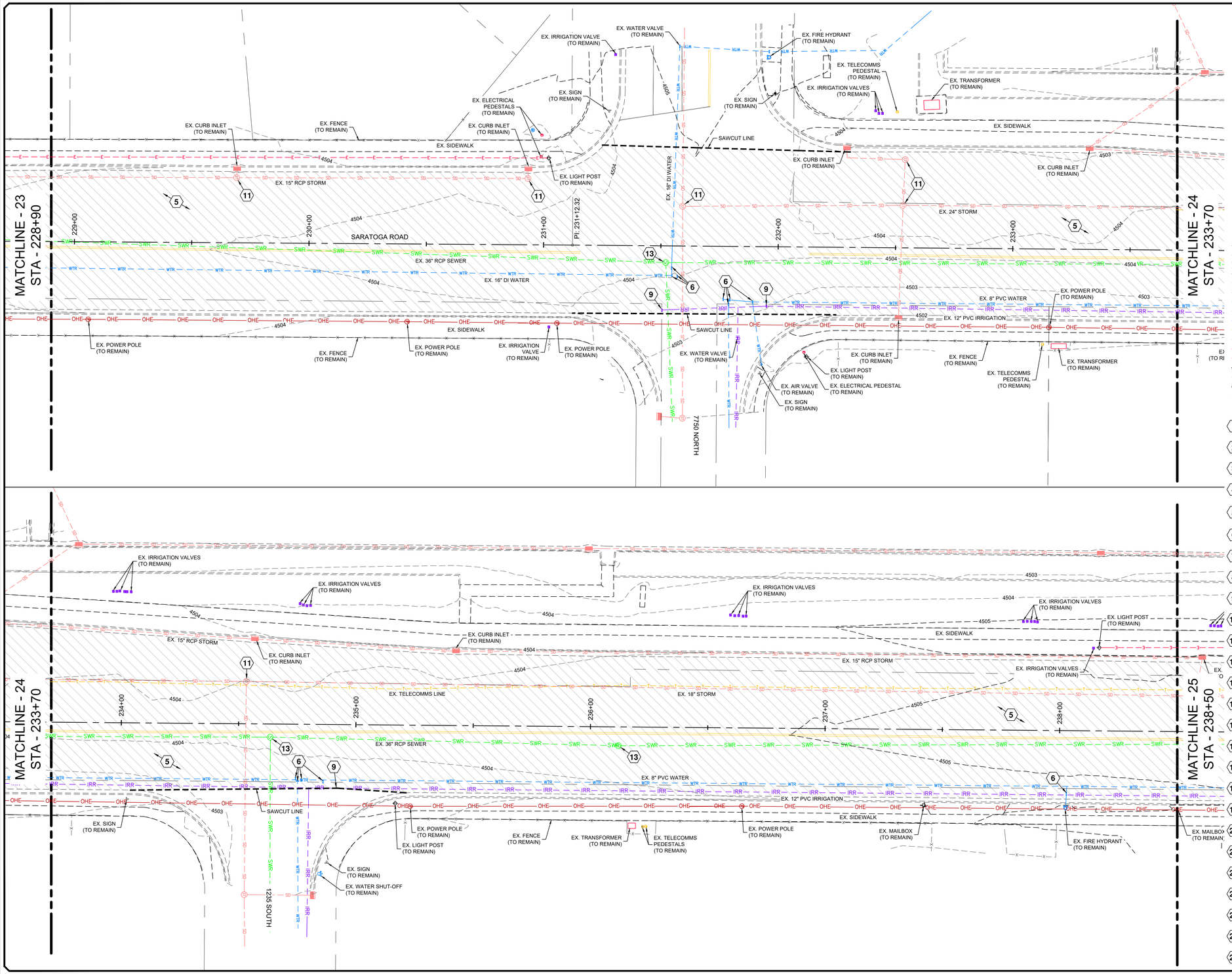
EXISTING CONDITIONS PLAN
219+30 ~ 228+90

MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG 01-DEMO — DRAWING FILE

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4839908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.12



-20 0 20 40

SCALE IN FEET

LEGEND

- 4500 EXISTING 5' CONTOUR
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

EXISTING CONDITIONS PLAN

228+90 ~ 238+50

DRAWING FILE	DWG \ 01-DEMO
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SARATOGA SPRINGS
CITY

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No. 4899908-2202
JAMES J MILLIGAN
3-12-26
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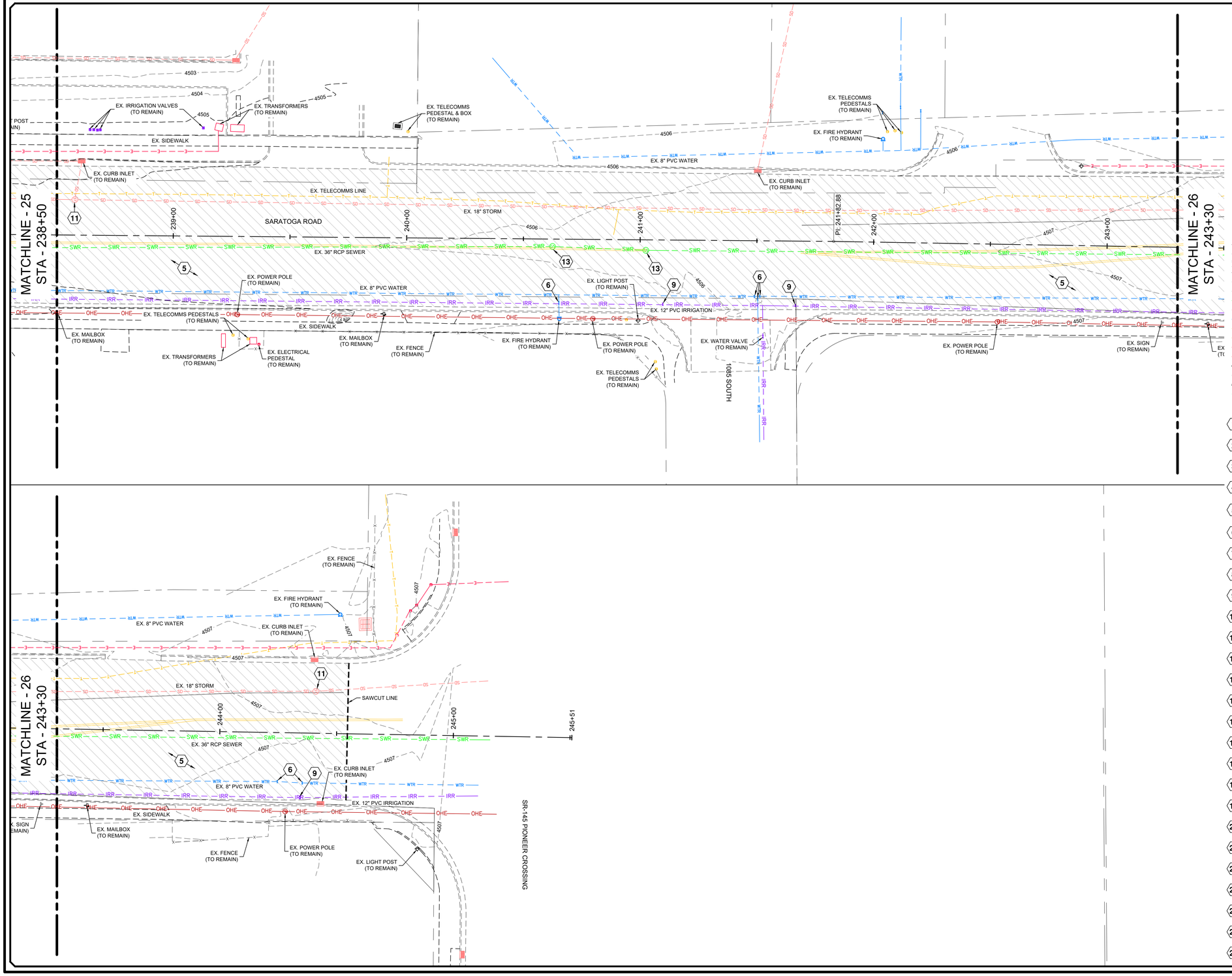

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SCALE IN FEET

LEGEND

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

EXISTING CONDITIONS PLAN 238+50 ~ 245+51

MARCH 12, 2026	DWG\01-DEMO
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SARATOGA SPRINGS
CITY

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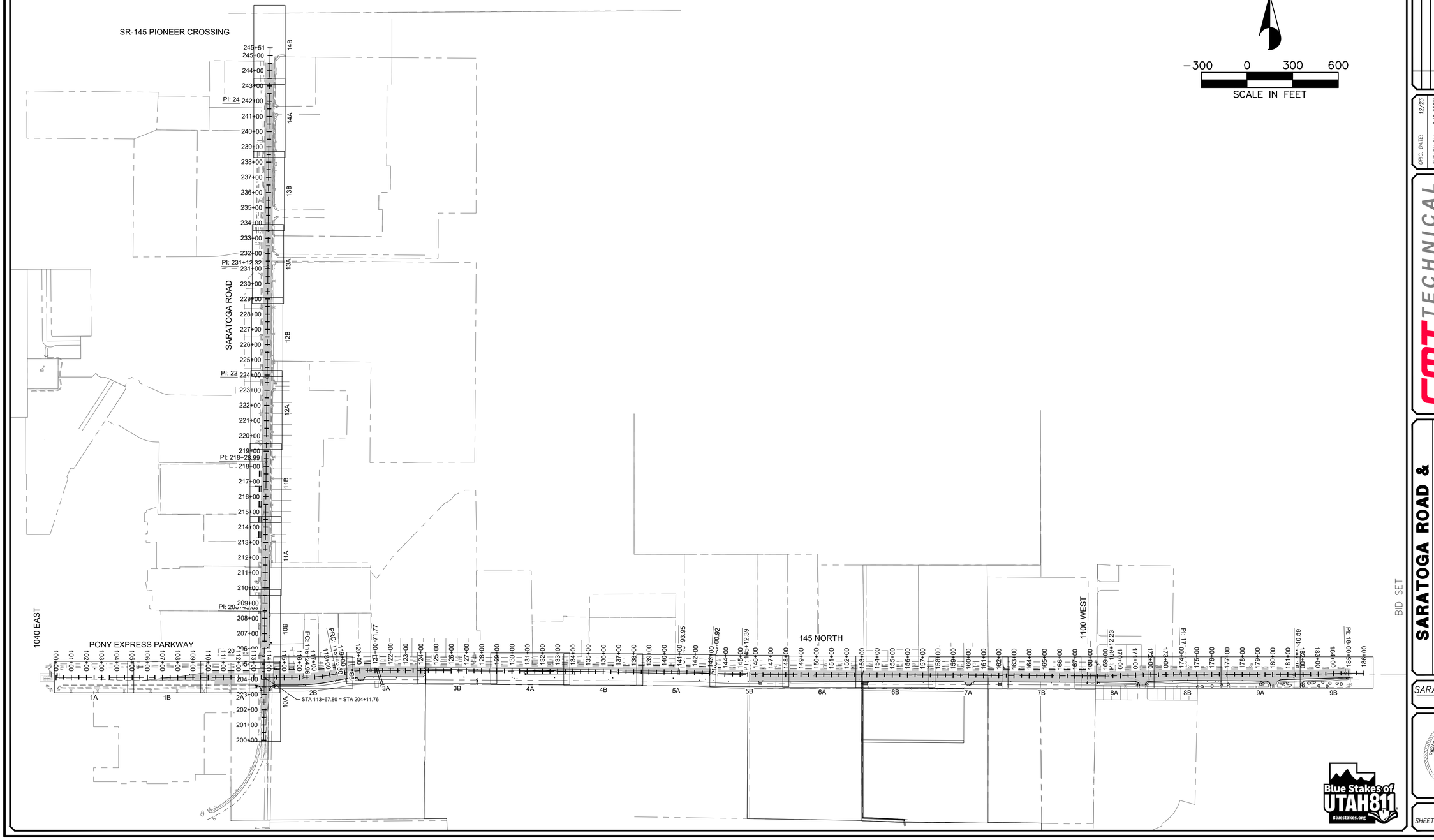
No. 4809908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C1.14



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ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/MJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=300'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN

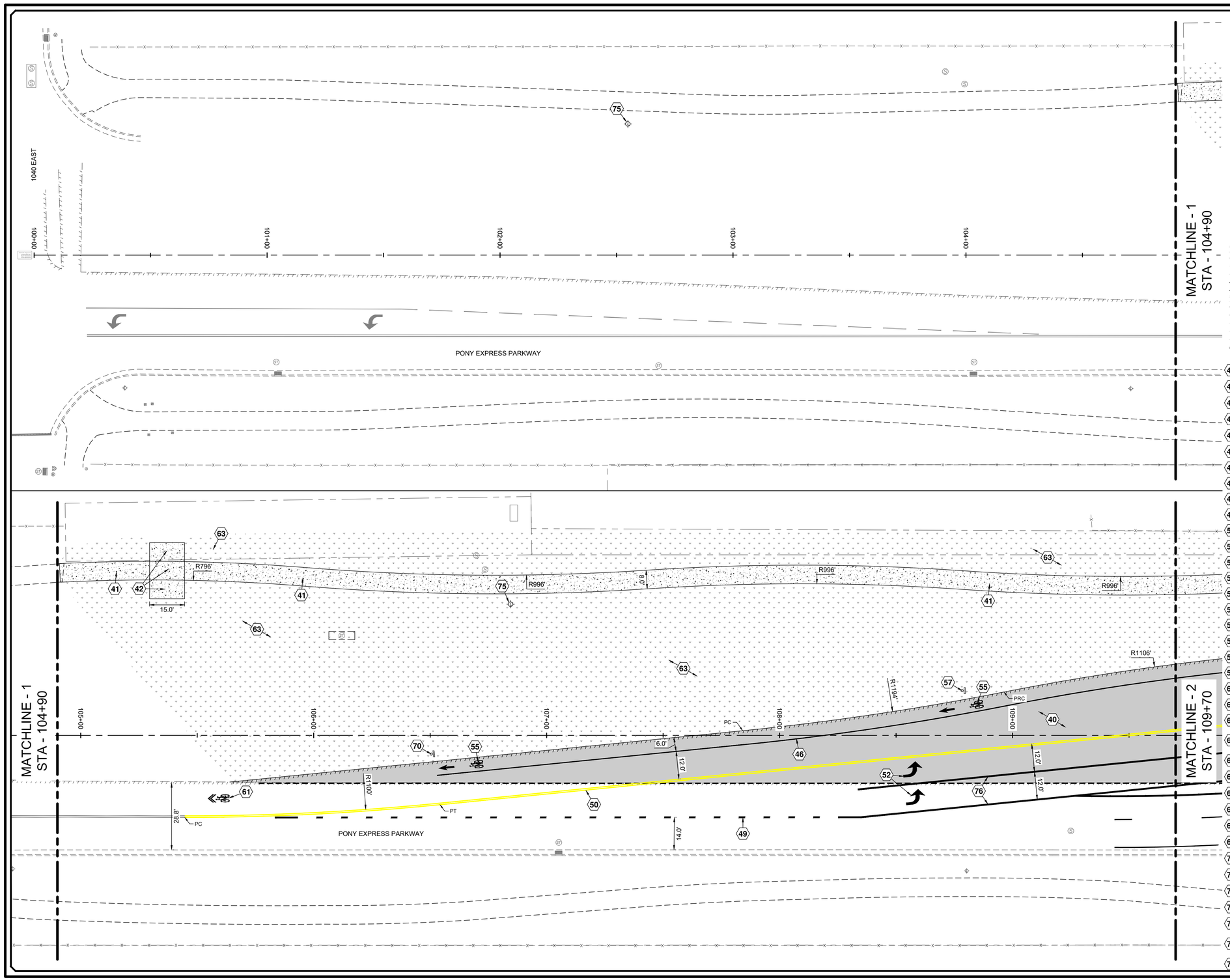
SHEET INDEX

MARCH 12, 2026	DWG \02-SITE
LAST REVISED	DRAWING FILE
1005.2317	
PROJECT NUMBER	

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.0



LEGEND

- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING OVERHEAD ELECTRIC
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- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED FENCE
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- RIGHT OF WAY
- PROPOSED SAWCUT

KEYNOTE LEGEND

40. ASPHALT PAVEMENT REQ'D (SEE DETAIL-1 ON SHEET C4.2)
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Blue Stakes of UTAH 811 — Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN
100+00 ~ 109+70

DWG \02-SITE DRAWING FILE	
PROJECT NUMBER	1005.2317
LAST REVISED	MARCH 12, 2026

SARATOGA SPRINGS
CITY

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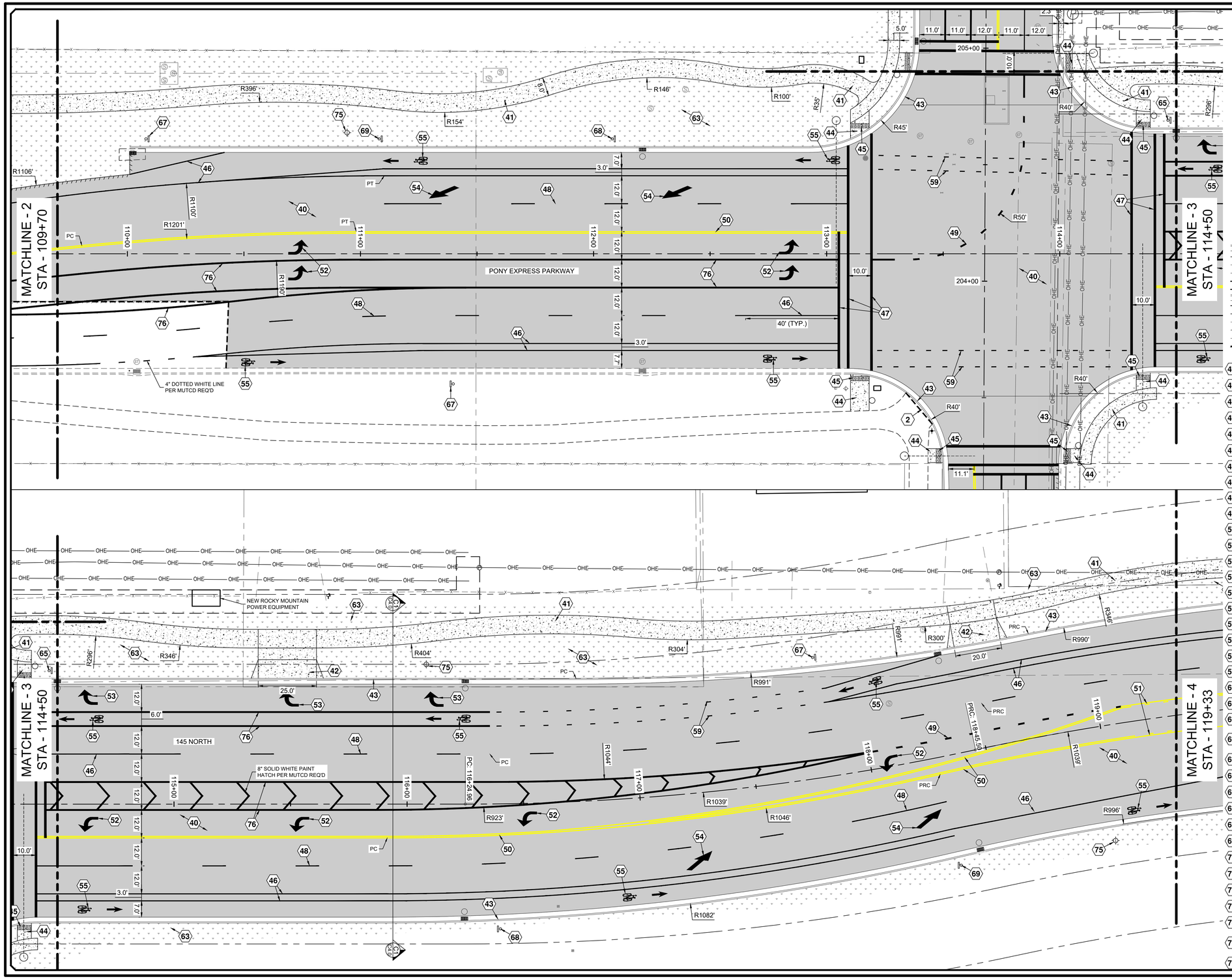
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.1



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−20 0 20 40

SCALE IN FEET

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

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109+70 ~ 119+33

DWG \02-SITE
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1005.2317
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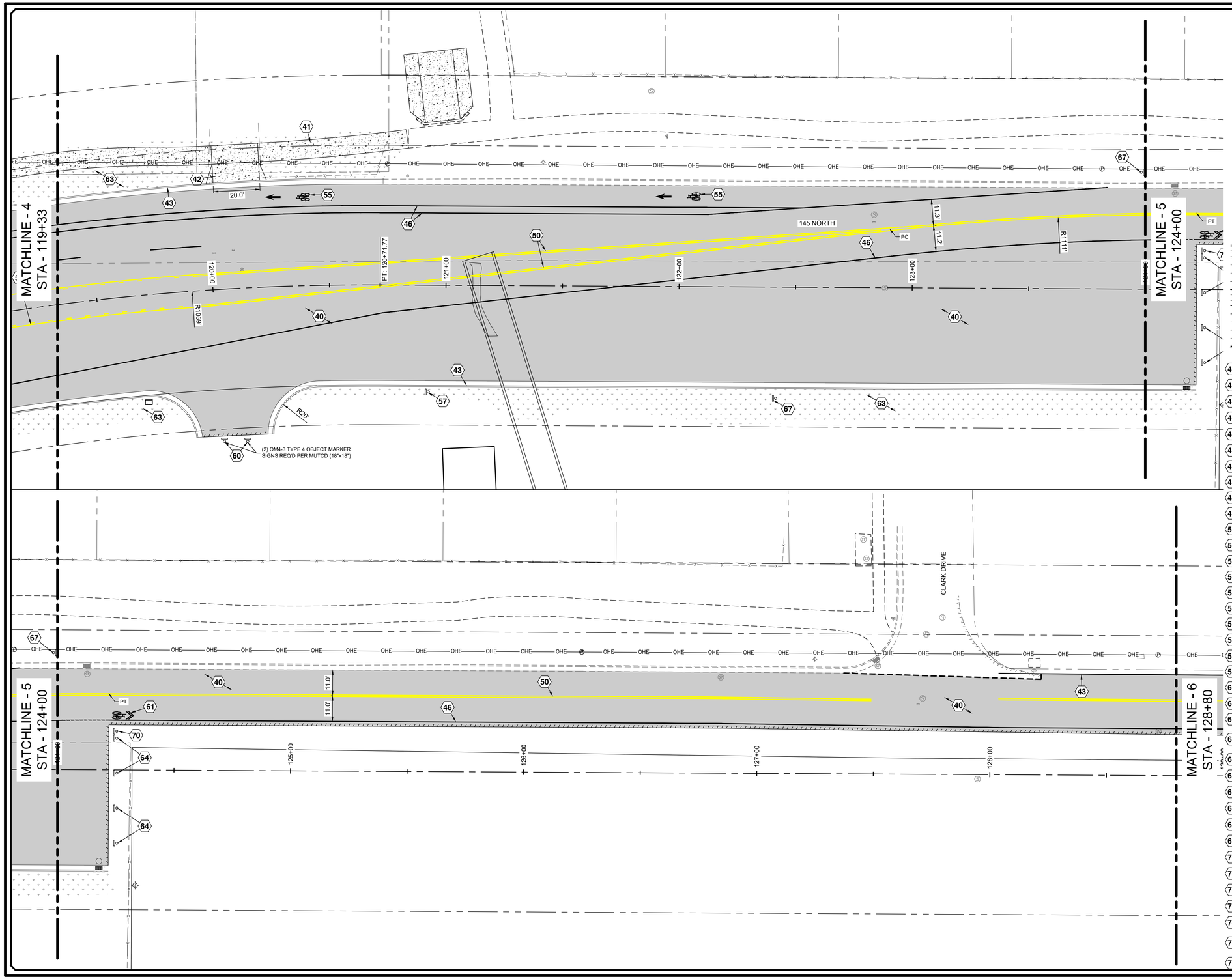
SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4859908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.2



N

−20 0 20 40

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Blue Stakes of UTAH 811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN
119+33 ~ 128+80

DWG \02-SITE
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1005.2317
PROJECT NUMBER
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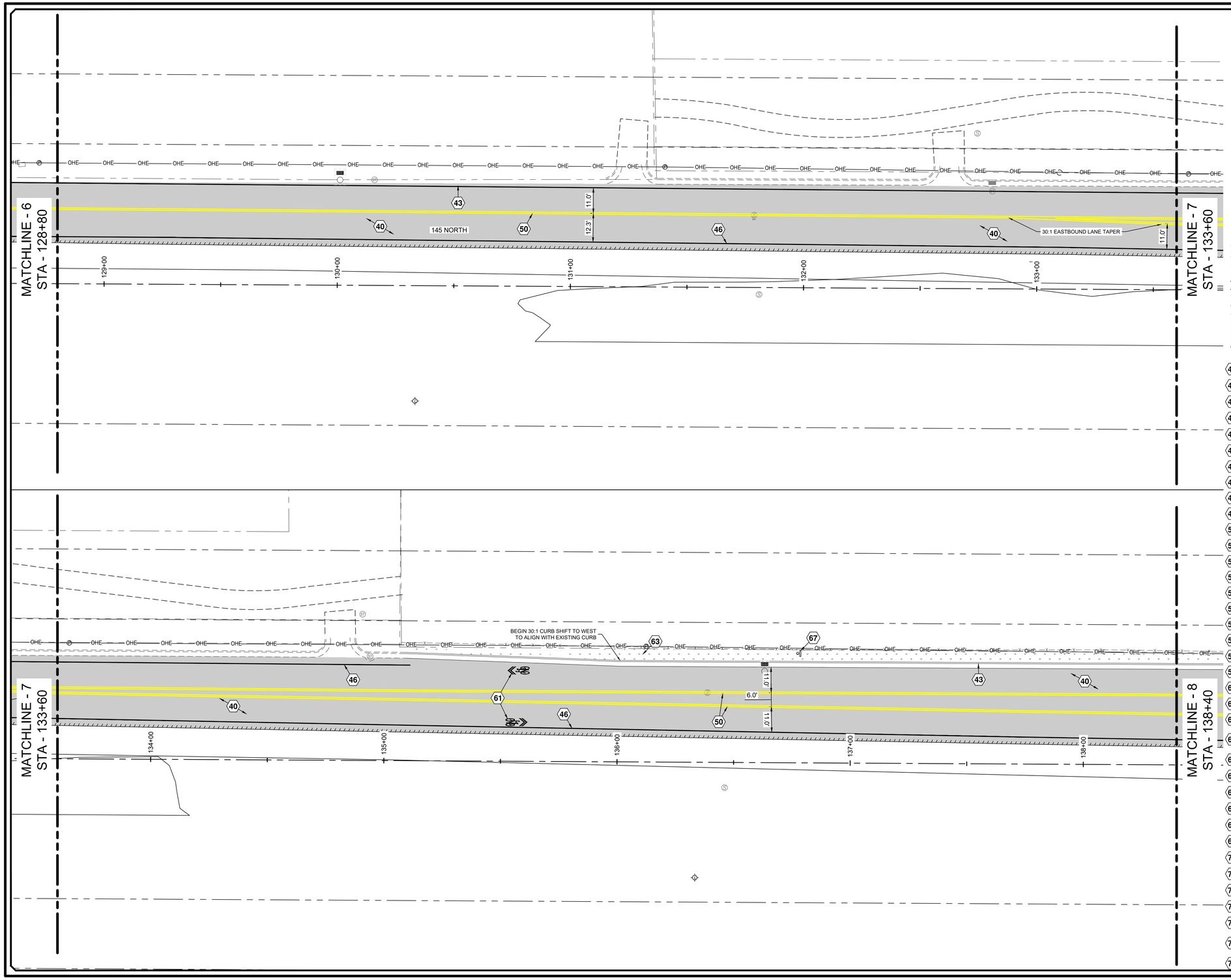
SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.3



N

−20 0 20 40

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN

128+80 ~ 138+40

DWG \02-SITE
DRAWING FILE

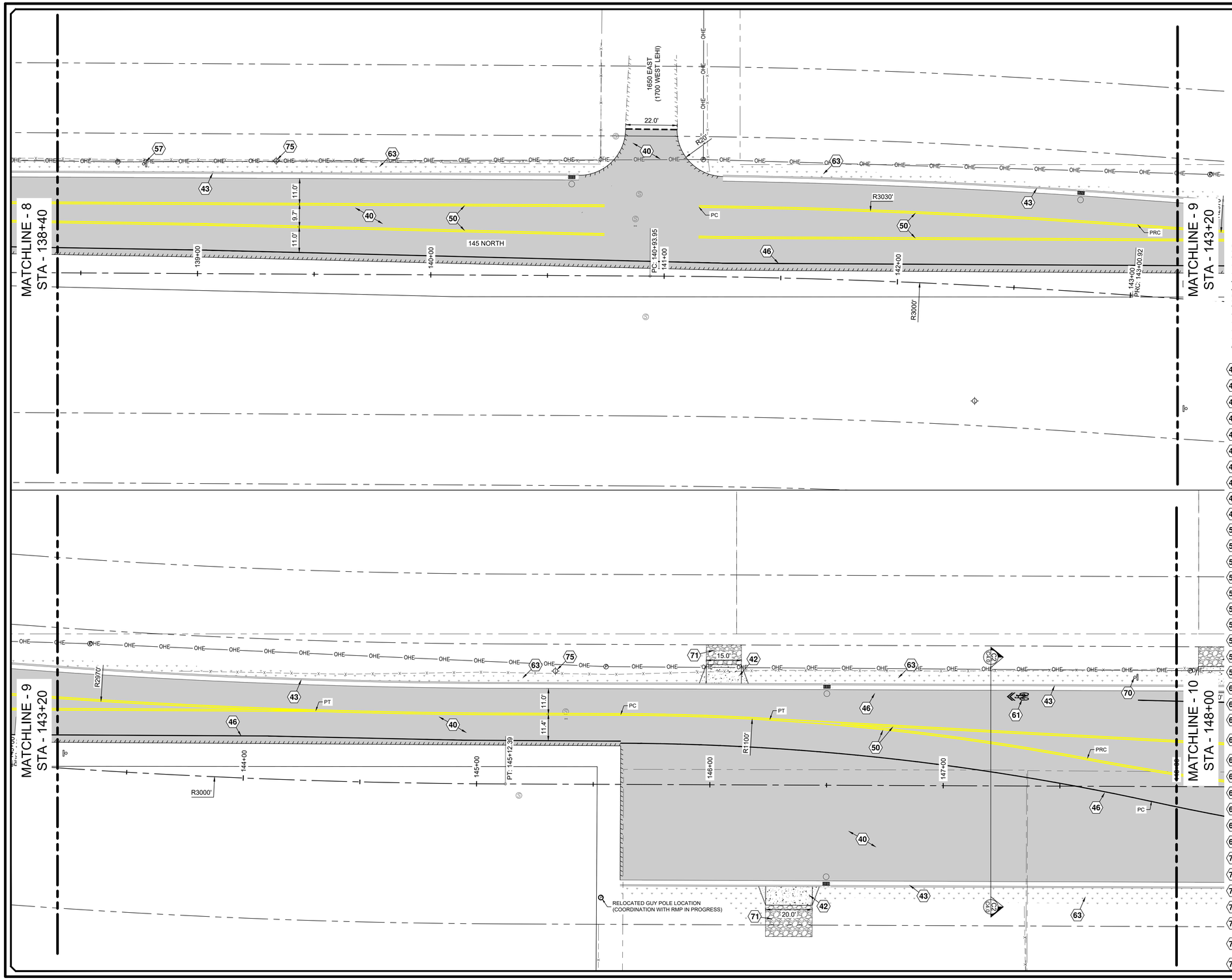
MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER

BID SET

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
James J. Milligan
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.4



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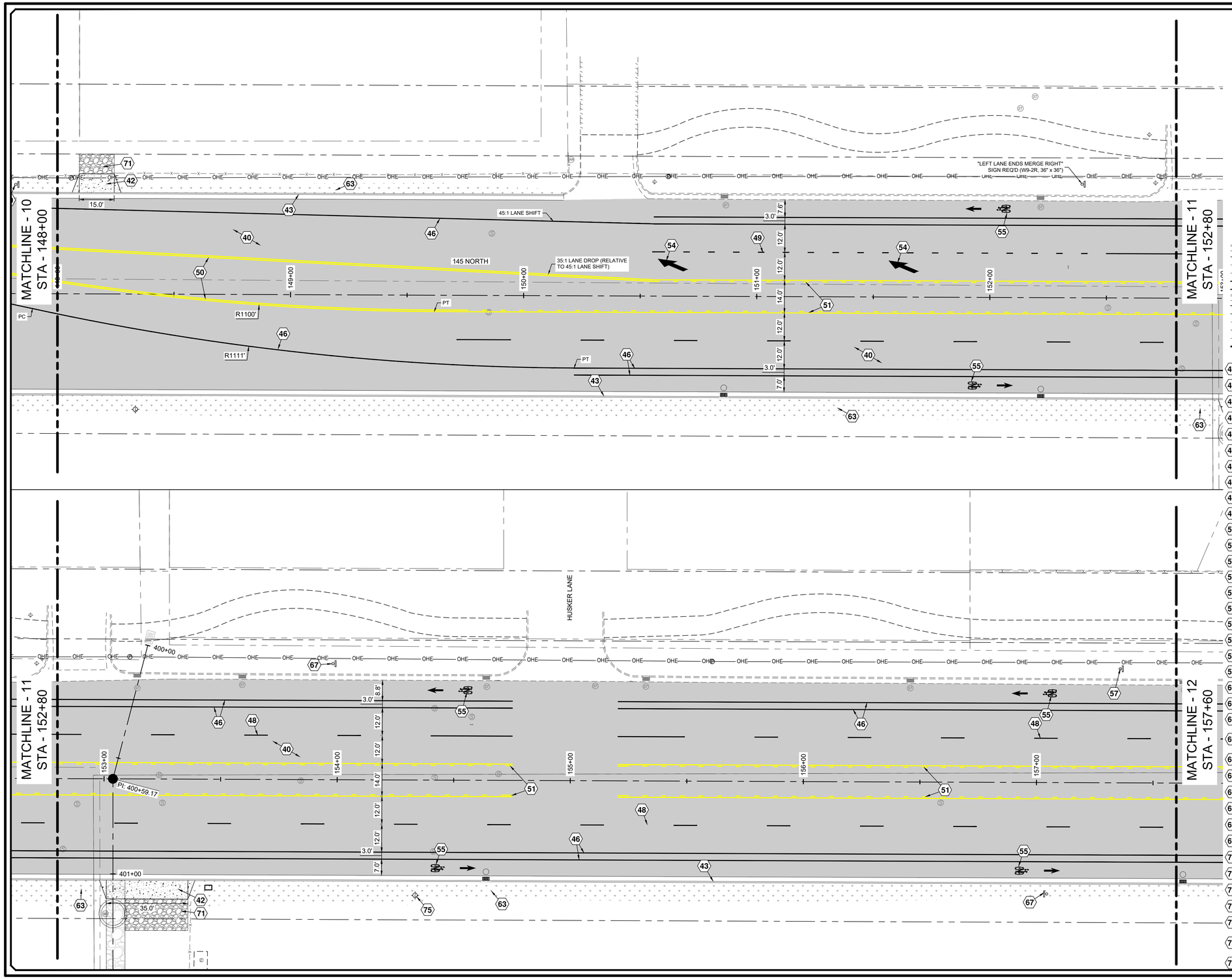
STATE OF UTAH

SHEET NO. C2.5



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−20 0 20 40

SCALE IN FEET

LEGEND

- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- RIGHT OF WAY
- PROPOSED SAWCUT

KEYNOTE LEGEND

40 ASPHALT PAVEMENT REQ'D (SEE DETAIL-1 ON SHEET C4.2)
41 CONCRETE SIDEWALK REQ'D (SEE DETAIL-9 ON SHEET C4.3)
42 CONCRETE DRIVEWAY REQ'D (SEE DETAIL-11 ON SHEET C4.3)
43 RESIDENTIAL 30" HIGH BACK CURB & GUTTER REQ'D (SEE DETAIL-10 ON SHEET C4.3)
44 ADA RAMP REQ'D (SEE DETAIL-12 ON SHEET C4.3)
45 DETECTABLE WARNING SURFACE REQ'D
46 4" SOLID WHITE LINE PER MUTCD REQ'D (TYP.)
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Blue Stakes of UTAH 811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
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SCALE: 1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
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SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN

148+00 ~ 157+60

DWG\02-SITE
DRAWING FILE

1005.2317
PROJECT NUMBER

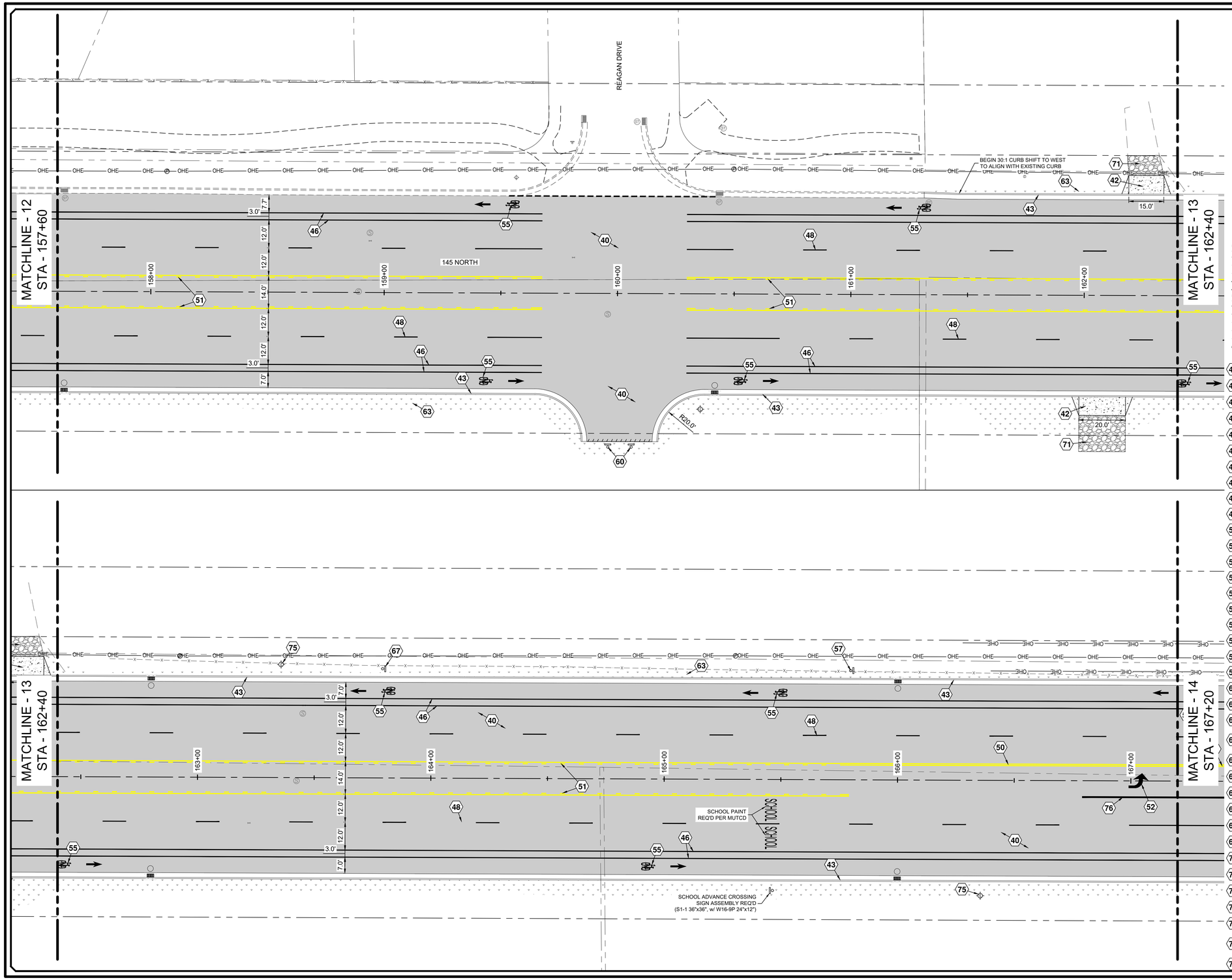
MARCH 12, 2026
LAST REVISED

BID SET

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.6



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SCALE IN FEET

LEGEND

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- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN
157+60 ~ 167+20

DWG\02-SITE
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1005.2317
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SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
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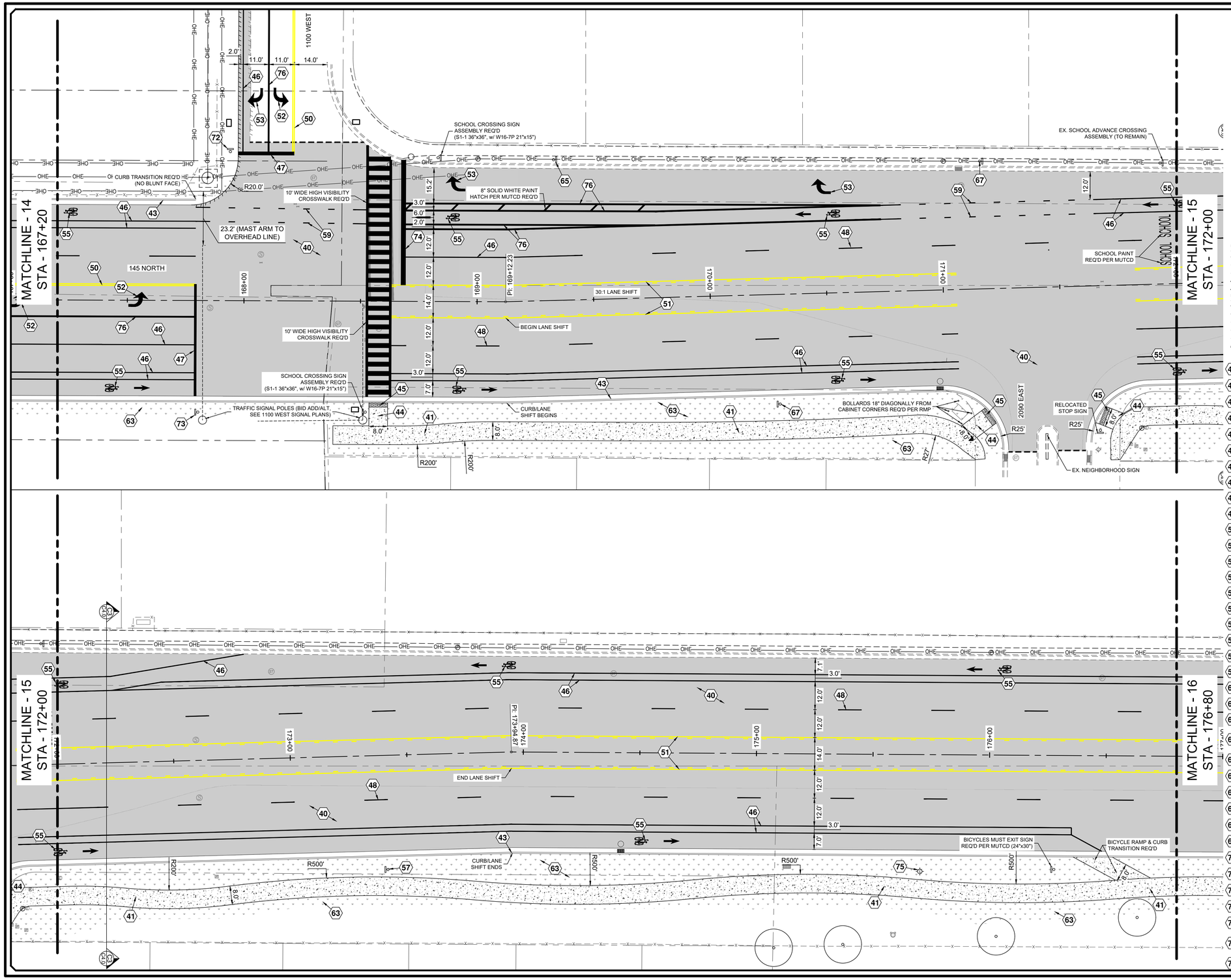
3-12-26
STATE OF UTAH

SHEET NO. C2.7



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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN
167+20 ~ 171+35

DWG\02-SITE
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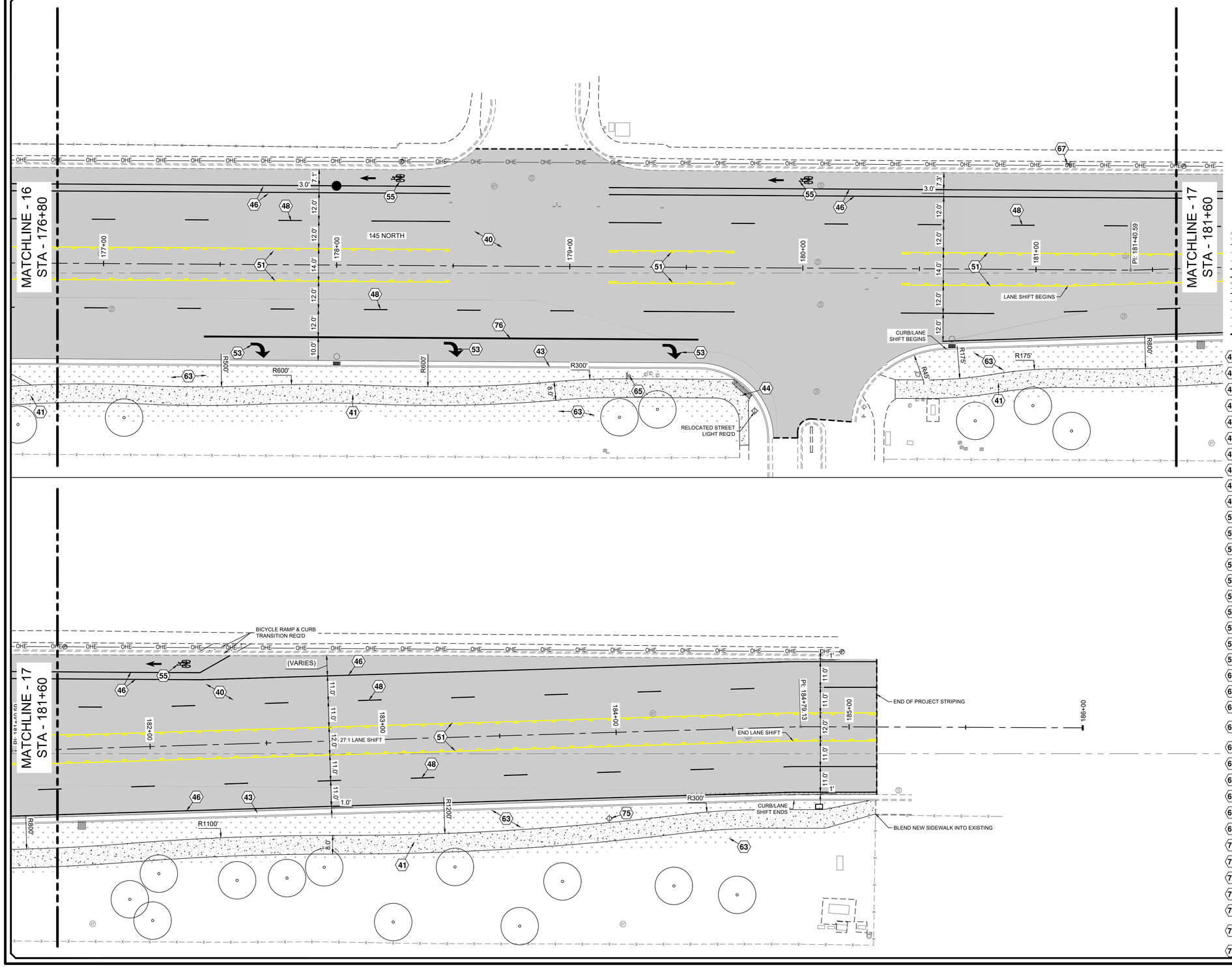
1005.2317
PROJECT NUMBER

BID SET

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.8



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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN

167+20 ~ 171+35

DWG \02-SITE DRAWING FILE

1005.2317 PROJECT NUMBER

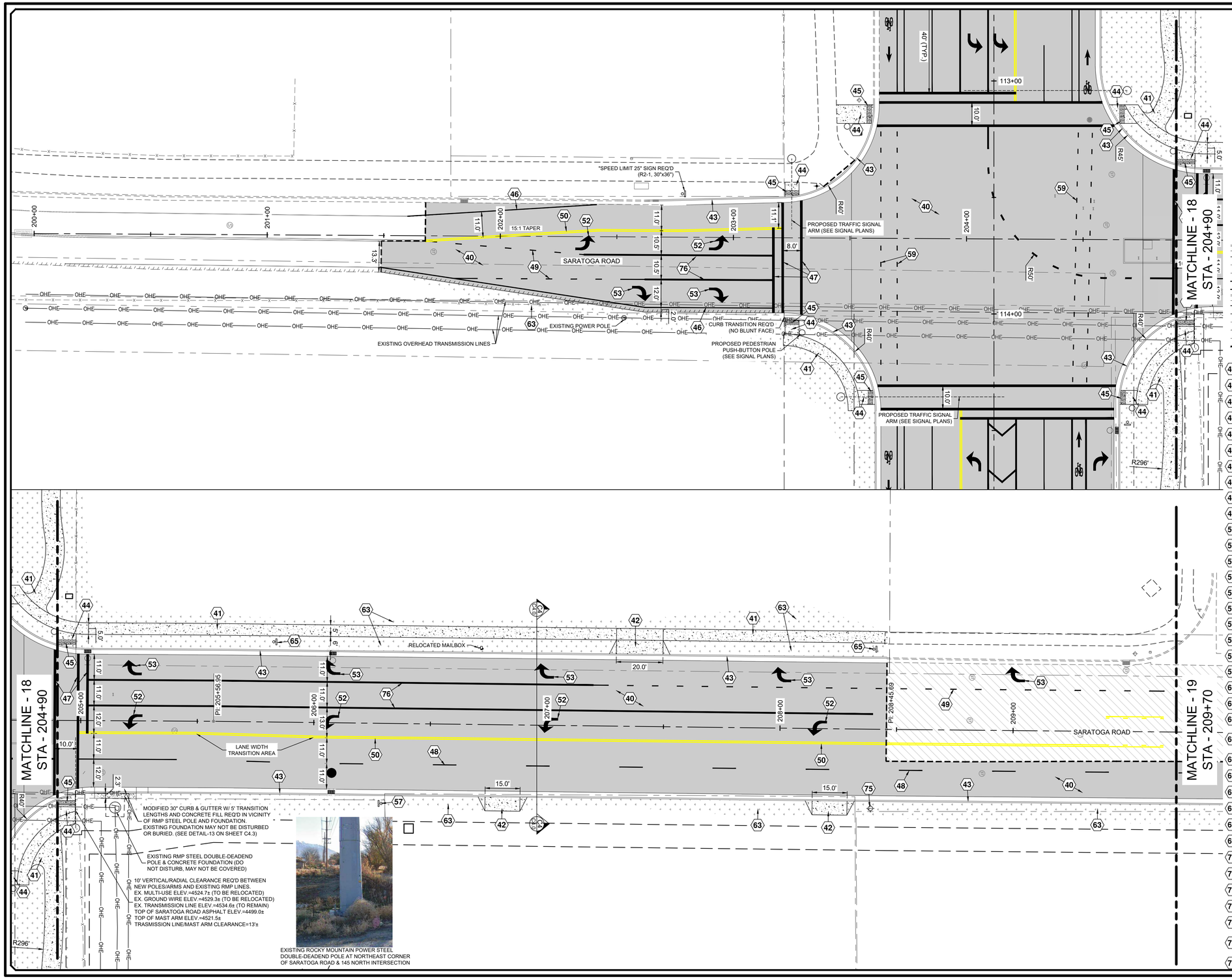
MARCH 12, 2026 LAST REVISED

BID SET

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.9



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SITE PLAN

200+00 ~ 209+70

DWG.\02-SITE | DRAWING FILE

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STATE OF UTAH

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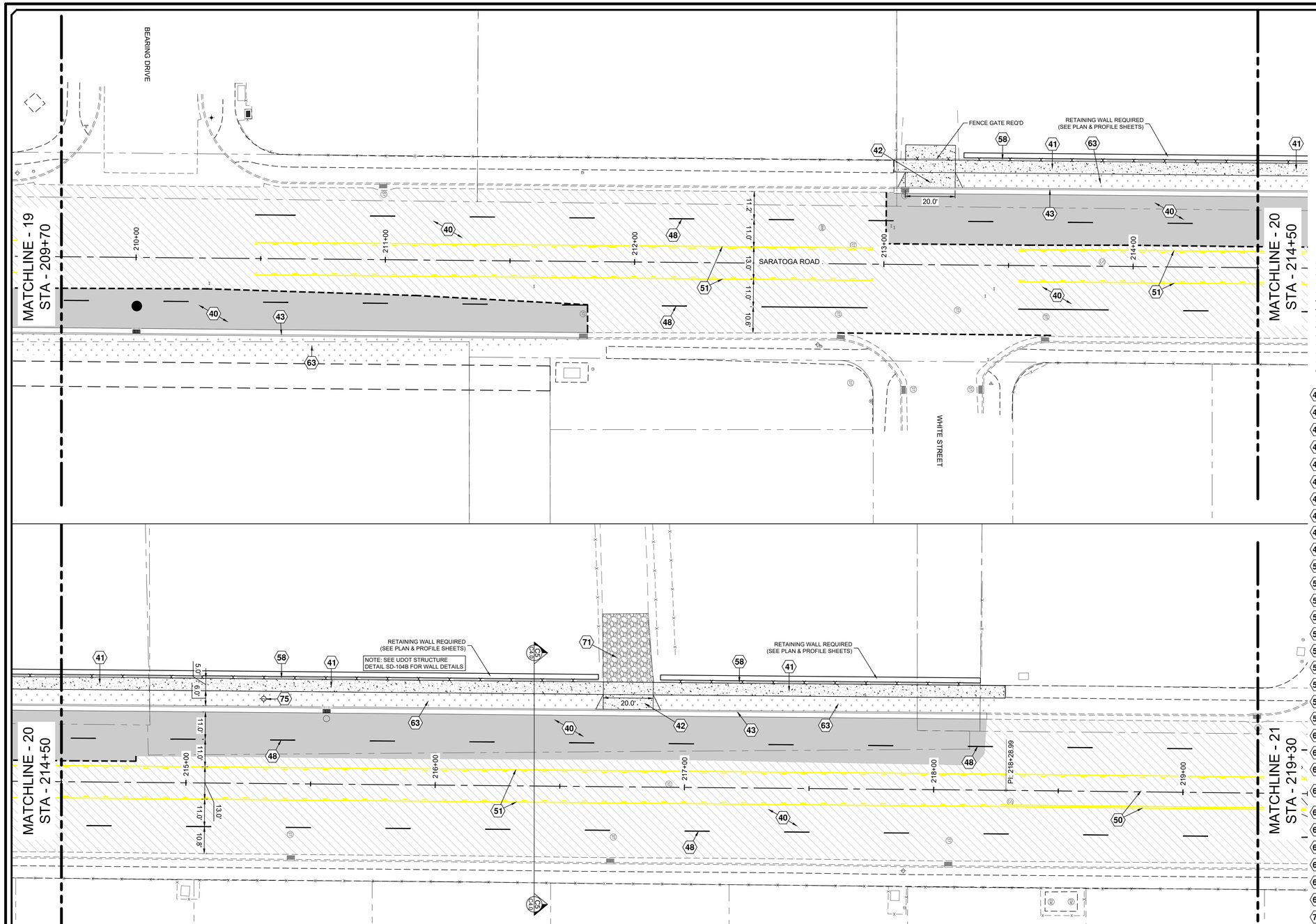

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- PROPOSED SIDEWALK
- PROPOSED FENCE
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- RIGHT OF WAY
- PROPOSED SAWCUT

KEYNOTE LEGEND

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Blue Stakes of UTAH 811 Bluestakes.org

BID SET

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
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SCALE: 1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN
209+70 ~ 219+30

DWG\02-SITE
DRAWING FILE

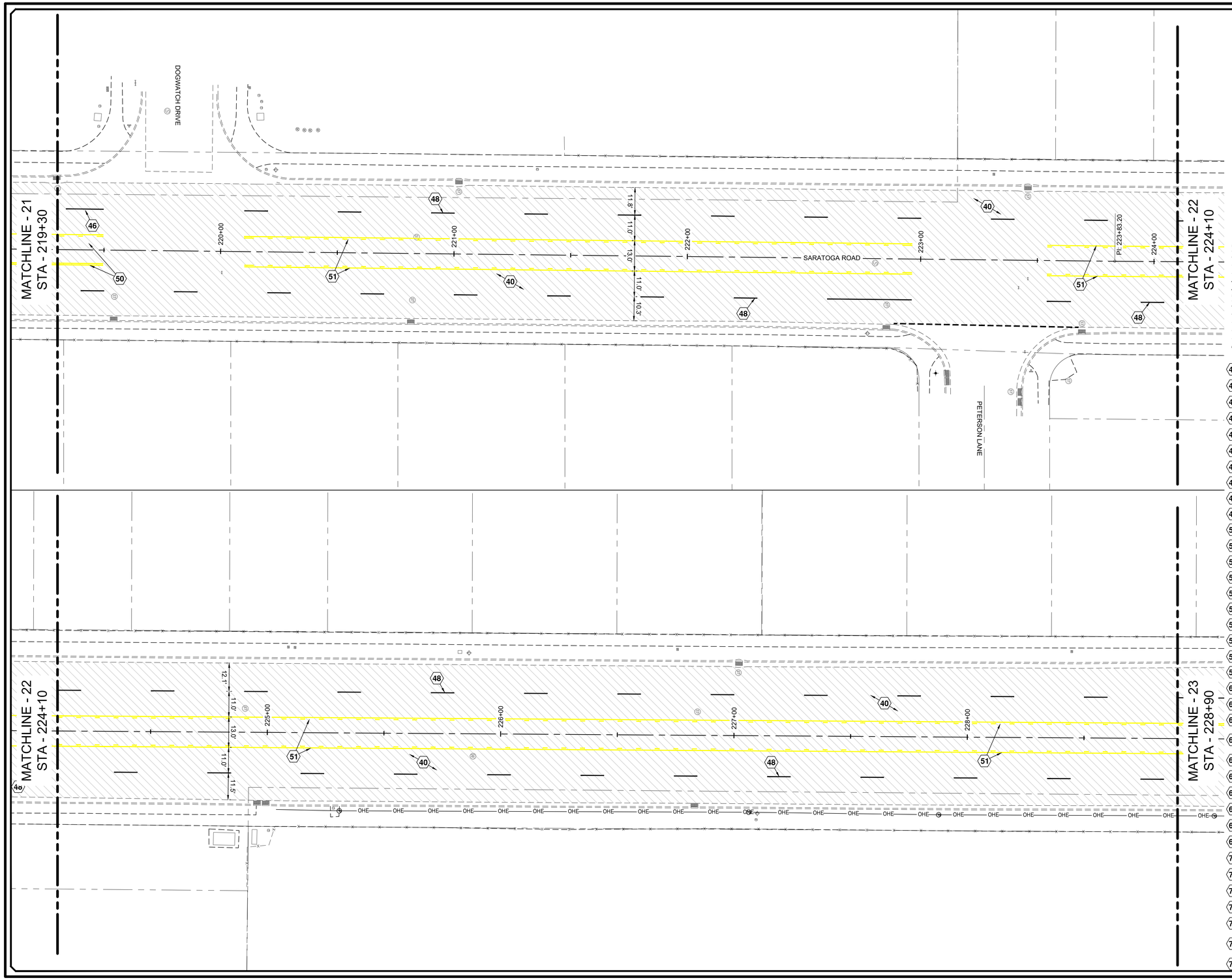
1005.2317
PROJECT NUMBER

MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.11



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SCALE IN FEET

LEGEND

- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED CURB & GUTTER
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Blue Stakes of UTAH811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN
219+30 ~ 228+90

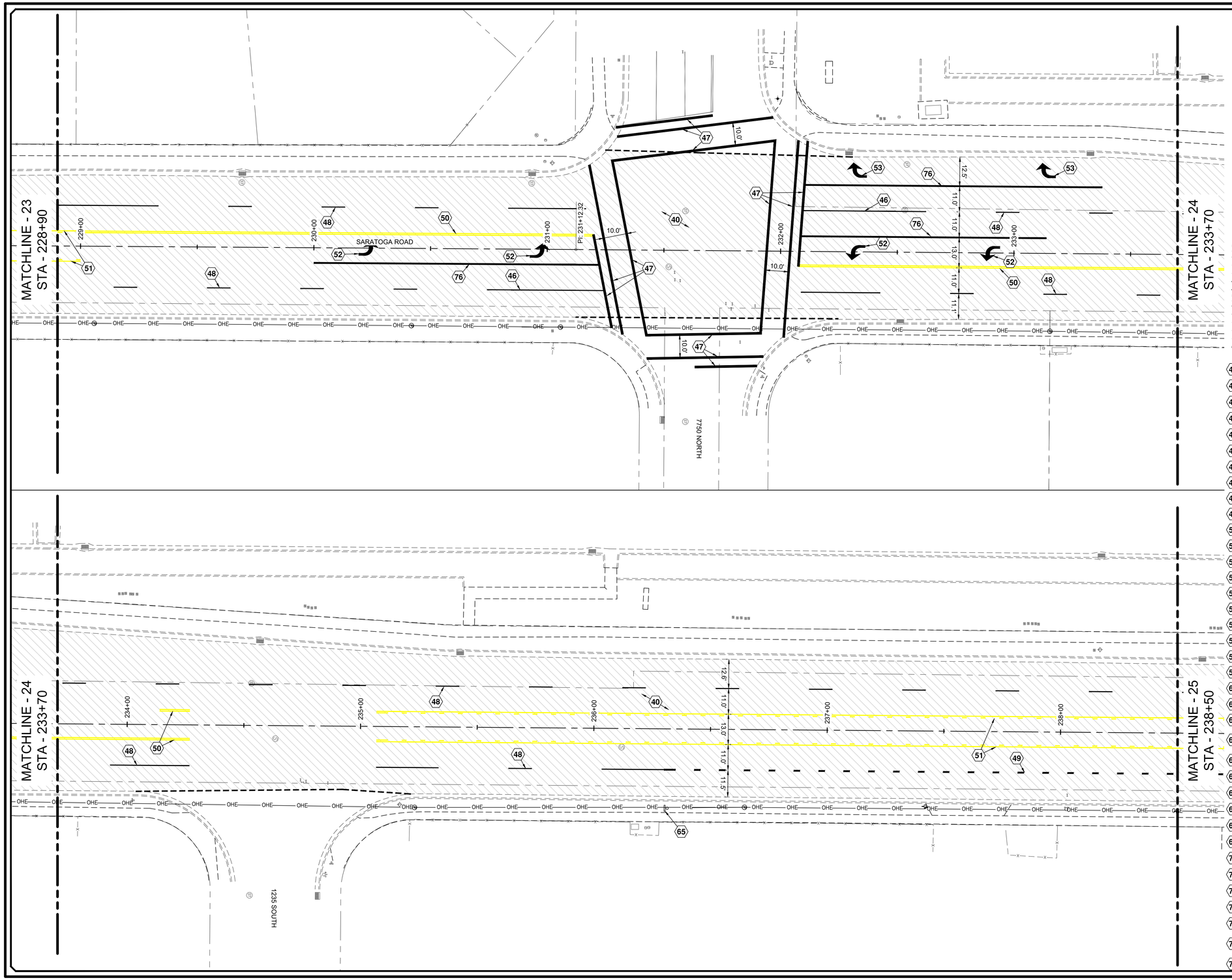
DWG\02-SITE
DRAWING FILE
1005.2317
PROJECT NUMBER
MARCH 12, 2026
LAST REVISED

BIDSET

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4859808-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.12



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LEGEND

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN
228+90 ~ 238+50

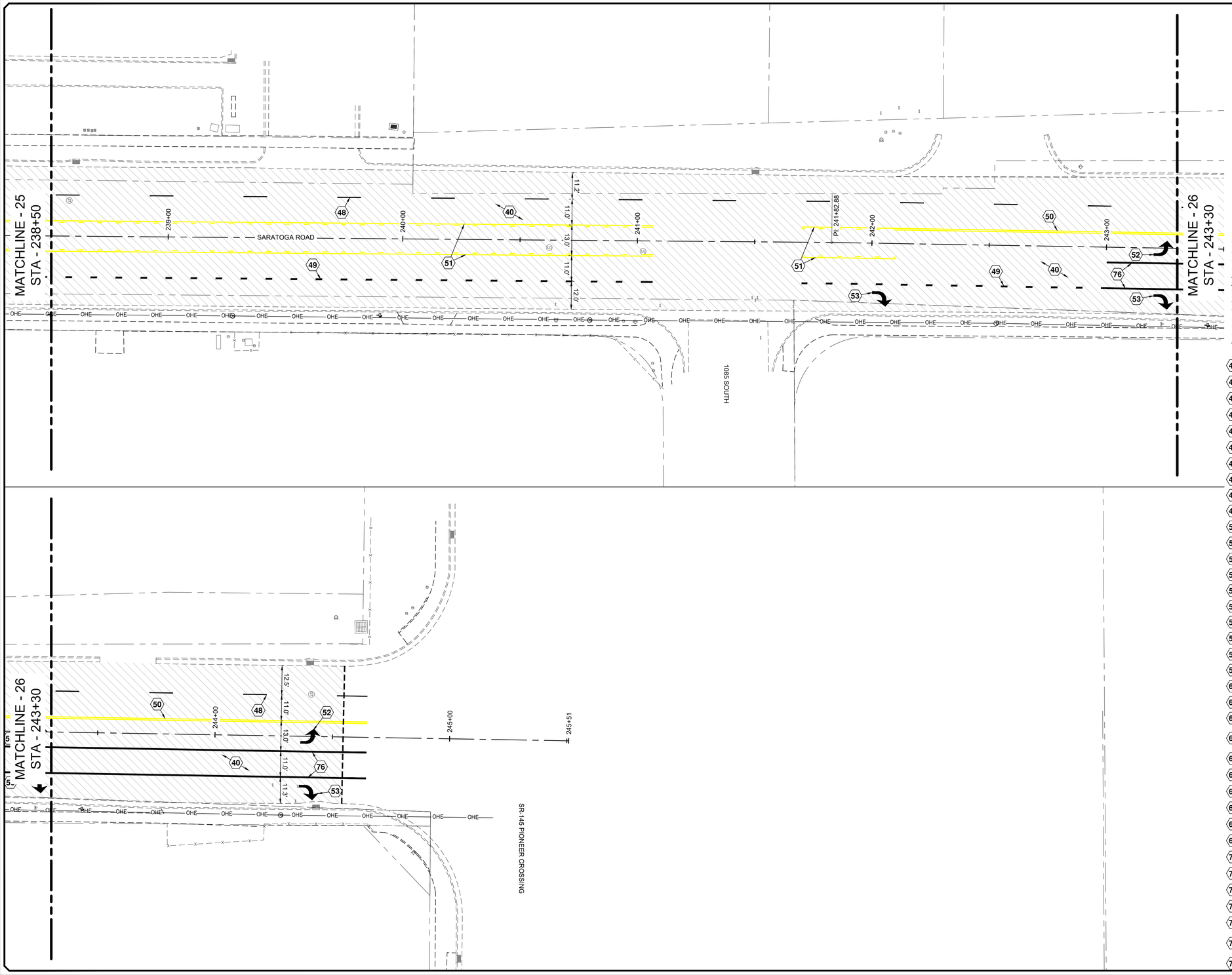
MARCH 12, 2026
LAST REVISED

DWG\02-SITE
DRAWING FILE
1005.2317
PROJECT NUMBER

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.13



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SCALE IN FEET

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Blue Stakes of UTAH 811 bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

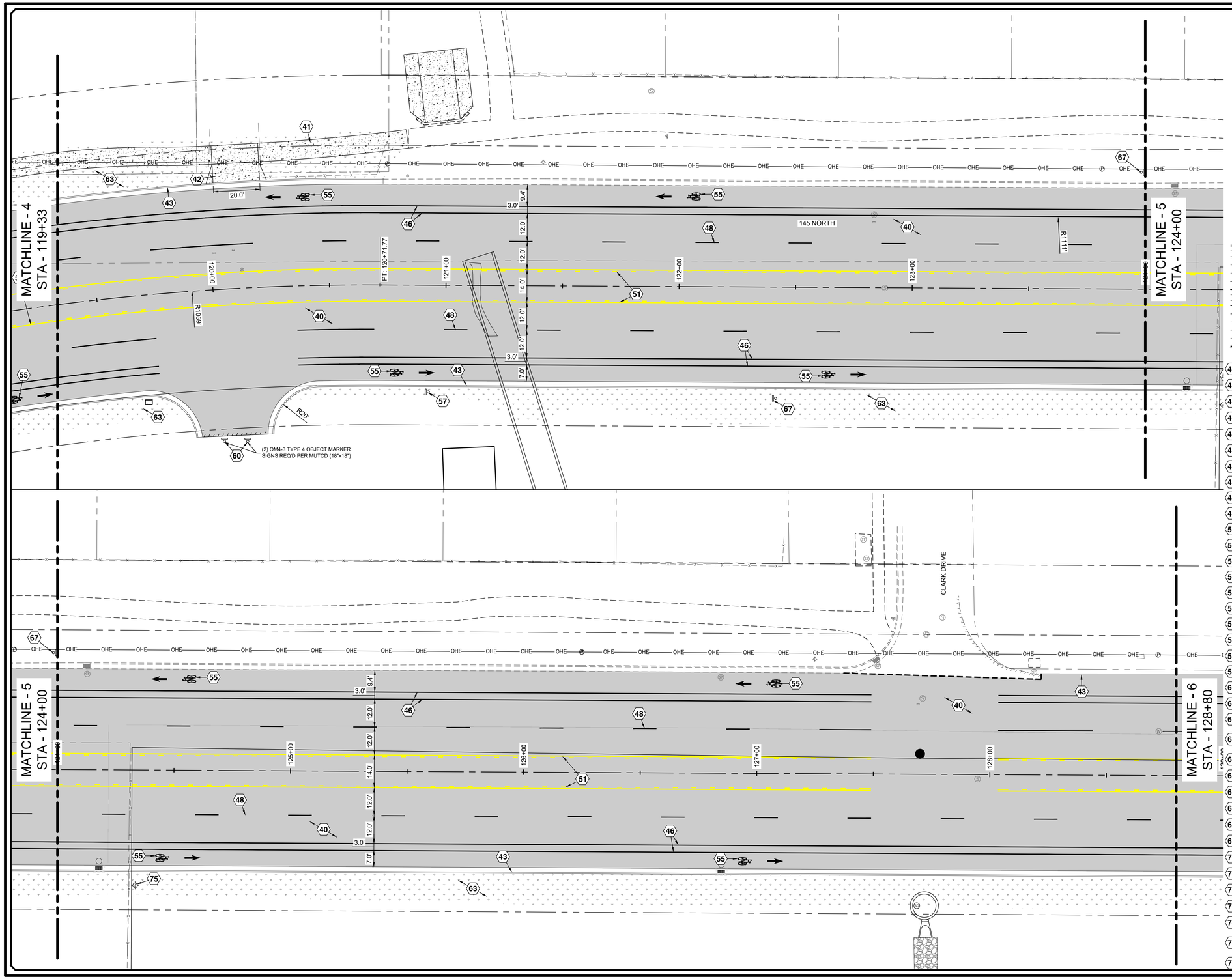
SITE PLAN
238+50 ~ 245+51

MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG \02-SITE — DRAWING FILE

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.14



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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN

119+33 ~ 128+80

DWG \02-SITE
DRAWING FILE

MARCH 12, 2026
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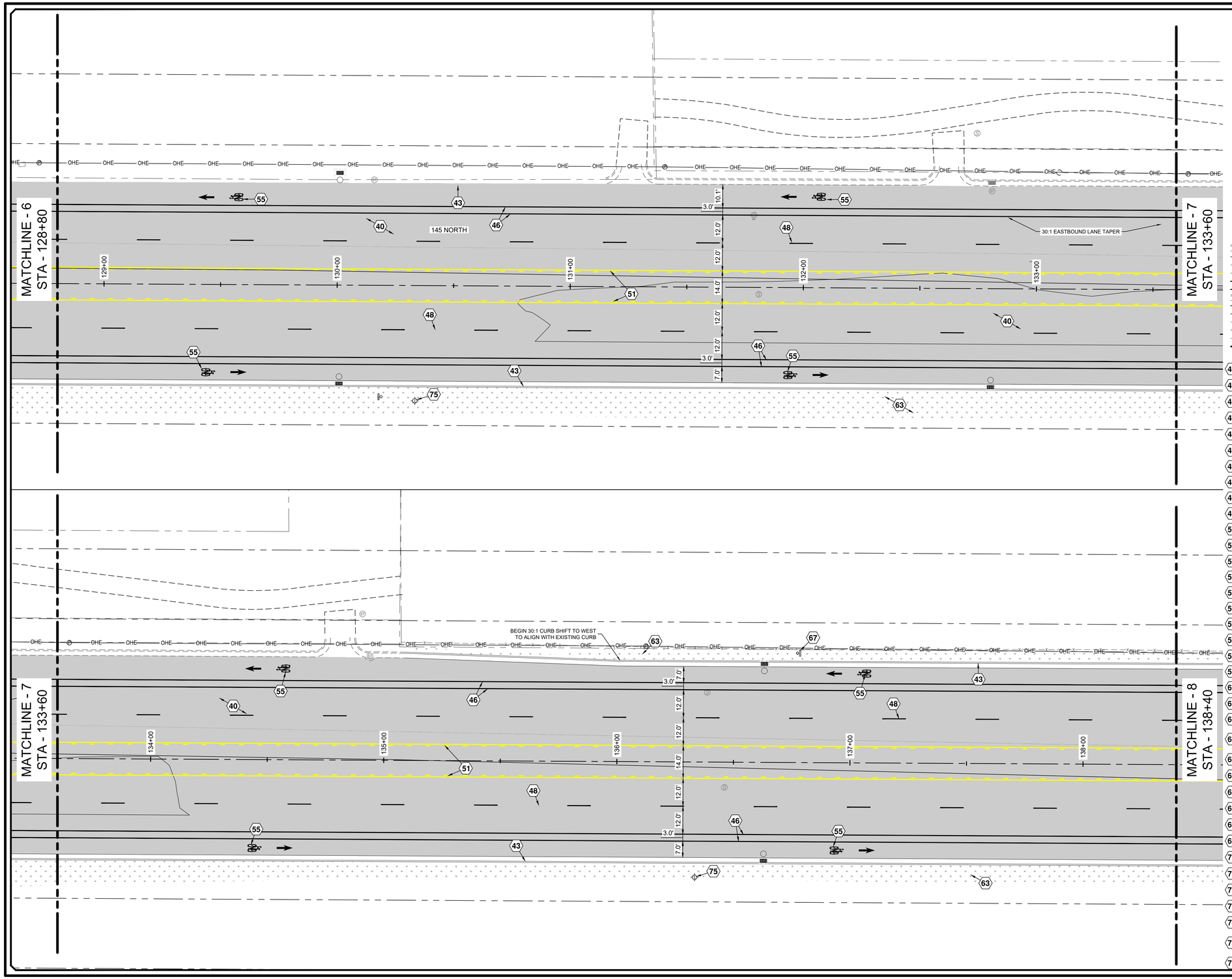
1005.2317
PROJECT NUMBER

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4859908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.3A



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SCALE IN FEET

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49 8" DOTTED WHITE LINE PER MUTCD REQ'D (TYP.)
50 4" DOUBLE YELLOW LINE PER MUTCD REQ'D (TYP.)
51 4" BROKEN & SOLID YELLOW LINES PER MUTCD REQ'D (TYP.)
52 LEFT TURN LANE-USE ARROW PER MUTCD REQ'D
53 RIGHT TURN LANE-USE ARROW PER MUTCD REQ'D
54 LANE REDUCTION ARROW PER MUTCD REQ'D
55 BIKE SYMBOL W/ ARROW PAVEMENT MARKINGS PER MUTCD REQ'D
56 "NO PARKING" SIGN REQ'D (R8-3, 24" X 24")
57 "SPEED LIMIT 35" SIGN REQ'D (R2-1, 30" X 36")
58 FENCE REQ'D
59 4" DOTTED WHITE LINE PER MUTCD REQ'D (TYP.)
60 (2) OM4-3 TYPE 4 OBJECT MARKER SIGNS REQ'D PER MUTCD (18"x18")
61 SHARROW MARKING REQ'D
62 "ONLY" MARKING REQ'D
63 NATIVE SEED MIX W/ EROSION CONTROL BLANKETS REQ'D (PER SARATOGA STANDARD MIX, SECTION 02727 2.3C.1, HATCHED AREA)
64 OM4-3 TYPE 4 OBJECT MARKER (18"x18") SIGNS PER MUTCD REQ'D
65 "RIGHT LANE MUST TURN RIGHT" SIGN REQ'D (R3-7R, 36" x 36")
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67 "BIKE LANE" SIGN REQ'D (R3-17, 24"x18")
68 "RIGHT LANE ENDS" SIGN REQ'D (W9-1, 36" x 36")
69 "LANE ENDS MERGE LEFT" SIGN REQ'D (W9-2L, 36" x 36")
70 "BIKE LANE ENDS" SIGN & PLAQUE REQ'D (R3-17, 24" x 18" SIGN W/ R3-17bP, 24" x 9" PLAQUE)
71 GRAVEL DRIVEWAY TIE-IN REQ'D
72 STOP SIGN REQ'D (R1-1, 30"x30")
73 STOP SIGN REQ'D (R1-1, 36"x36")
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76 8" SOLID WHITE LINE PER MUTCD REQ'D (TYP.)

Blue Stakes of UTAH 811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
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SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN
128+80 ~ 138+40

DWG \02-SITE
DRAWING FILE

MARCH 12, 2026
LAST REVISED

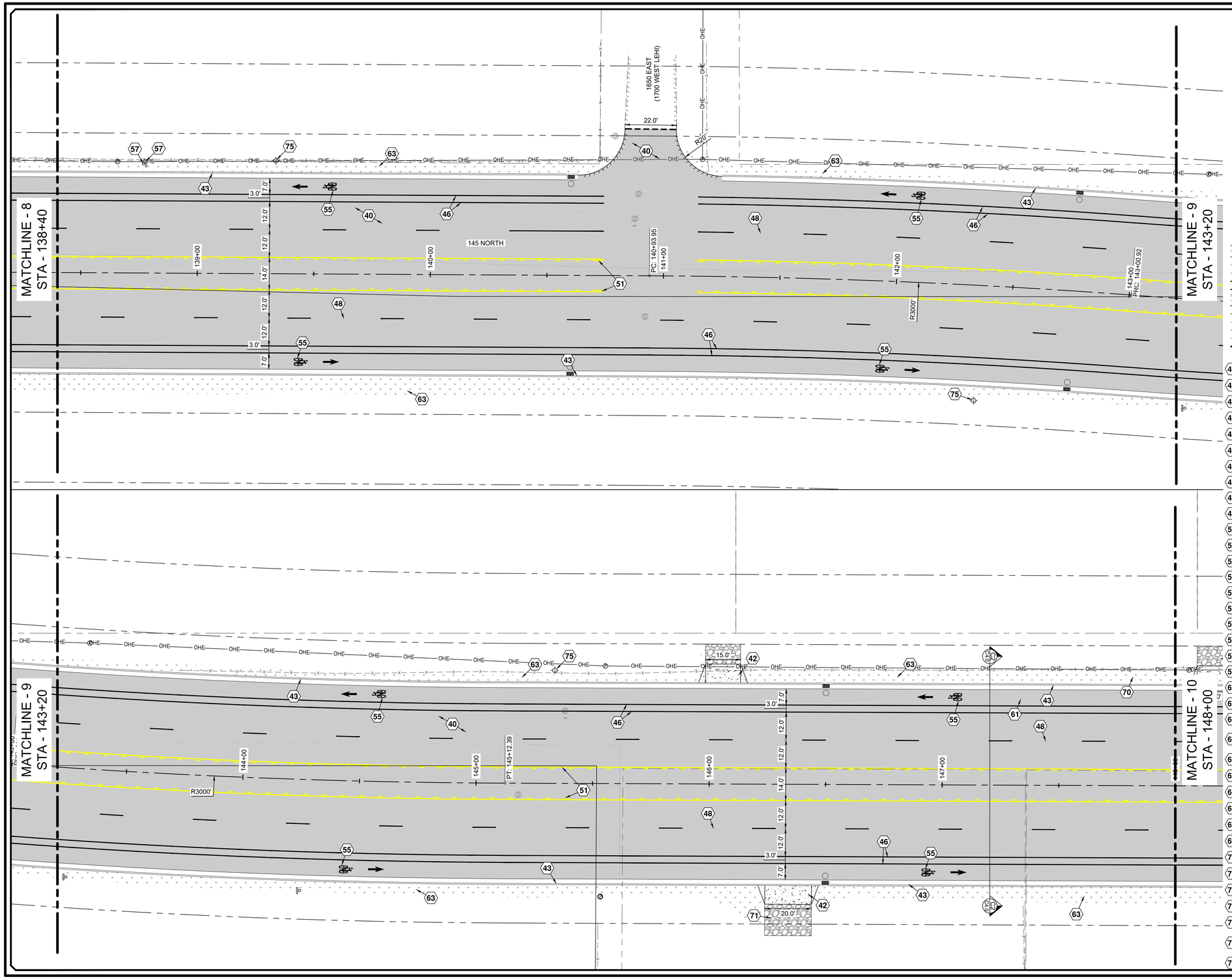
1005.2317
PROJECT NUMBER

BID SET

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
James J. Milligan
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.4A



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SCALE IN FEET

LEGEND

- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- RIGHT OF WAY
- PROPOSED SAWCUT

KEYNOTE LEGEND

40. ASPHALT PAVEMENT REQ'D (SEE DETAIL-1 ON SHEET C4.2)
41. CONCRETE SIDEWALK REQ'D (SEE DETAIL-9 ON SHEET C4.3)
42. CONCRETE DRIVEWAY REQ'D (SEE DETAIL-11 ON SHEET C4.3)
43. RESIDENTIAL 30" HIGH BACK CURB & GUTTER REQ'D (SEE DETAIL-10 ON SHEET C4.3)
44. ADA RAMP REQ'D (SEE DETAIL-12 ON SHEET C4.3)
45. DETECTABLE WARNING SURFACE REQ'D
46. 4" SOLID WHITE LINE PER MUTCD REQ'D (TYP.)
47. 12" SOLID WHITE LINE PER MUTCD REQ'D (TYP.)
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Blue Stakes of UTAH811 Bluestakes.org

BID SET

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ORIG. DATE:	12/23
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CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
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MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

SITE PLAN

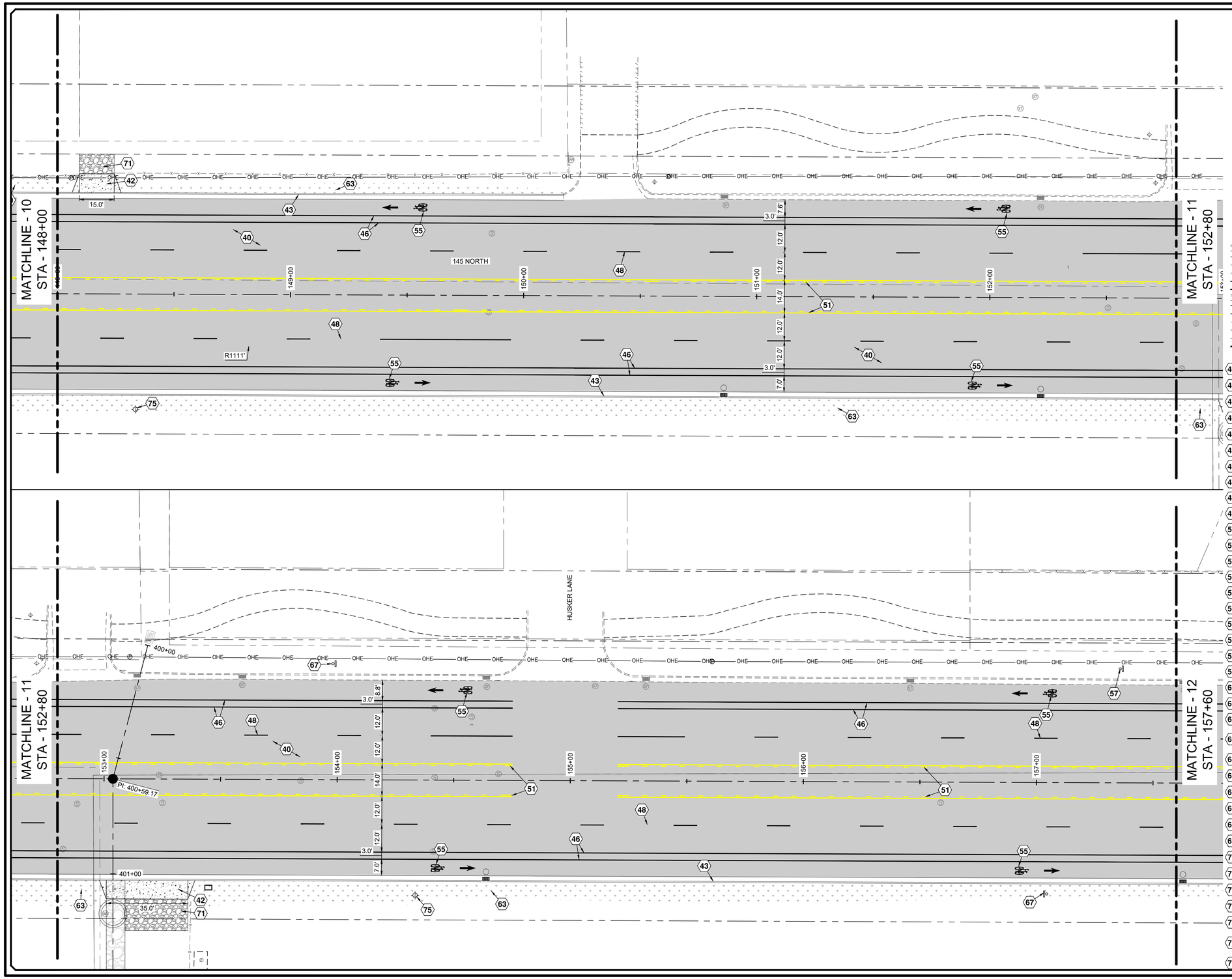
138+40 ~ 148+00

DWG\02-SITE	
DRAWING FILE	
1005.2317	
PROJECT NUMBER	
MARCH 12, 2026	
LAST REVISED	

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.5A



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SCALE IN FEET

LEGEND

- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- RIGHT OF WAY
- PROPOSED SAWCUT

KEYNOTE LEGEND

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Blue Stakes of UTAH 811 Bluestakes.org

BID SET

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ORIG. DATE: 12/23
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CMT TECHNICAL SERVICES
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

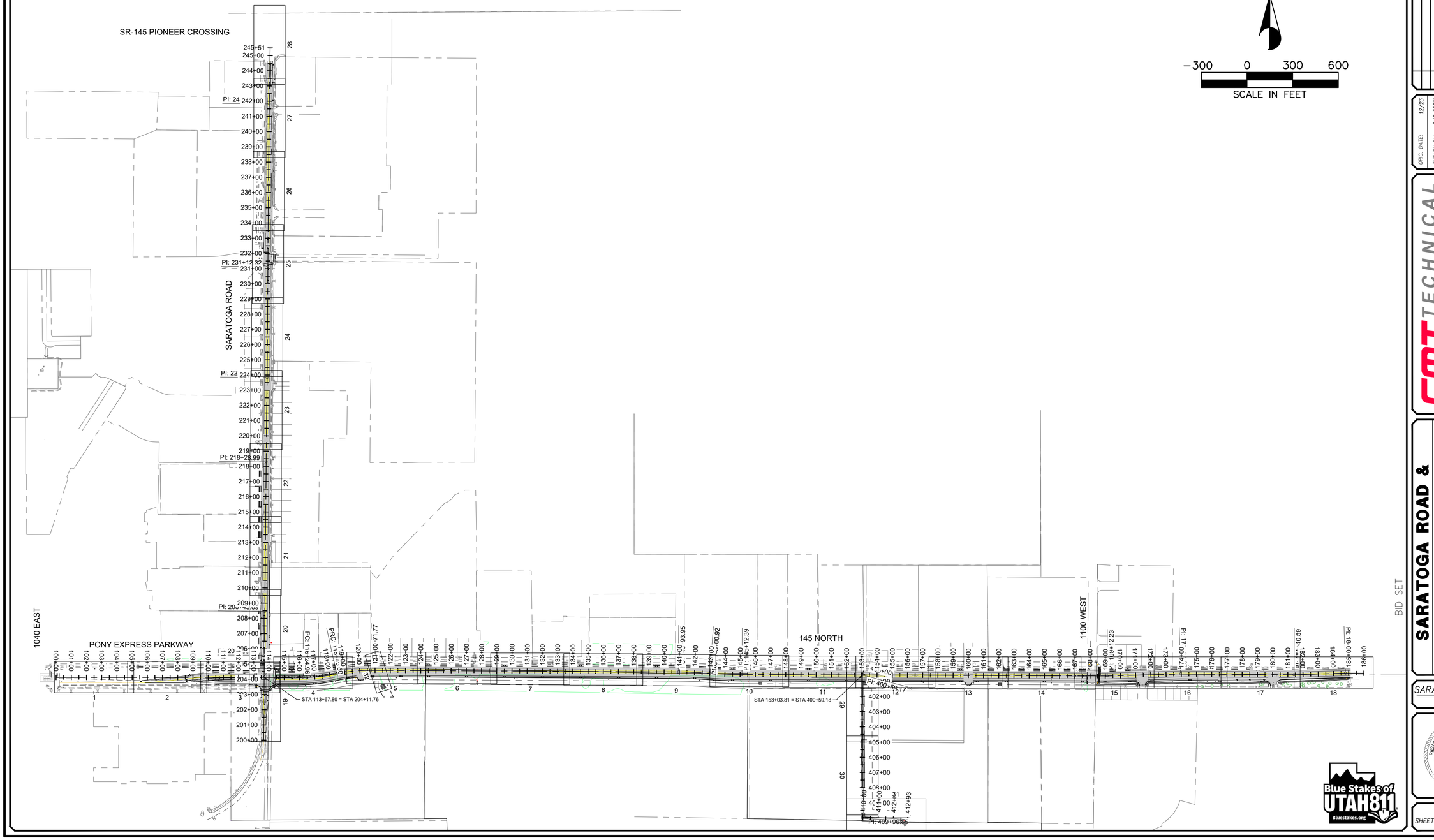
SITE PLAN
148+00 ~ 157+60

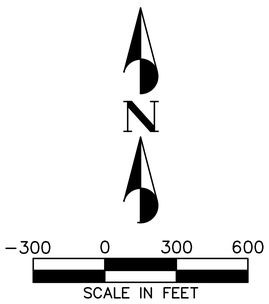
DWG \02-SITE
DRAWING FILE
1005.2317
PROJECT NUMBER
MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C2.6A





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ORIG. DATE: 12/23
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE

SHEET INDEX

MARCH 12, 2026
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DWG \03-P&P
DRAWING FILE

1005.2317
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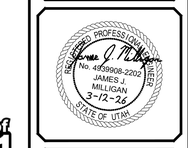
SARATOGA SPRINGS
CITY



Blue Stakes of UTAH 811
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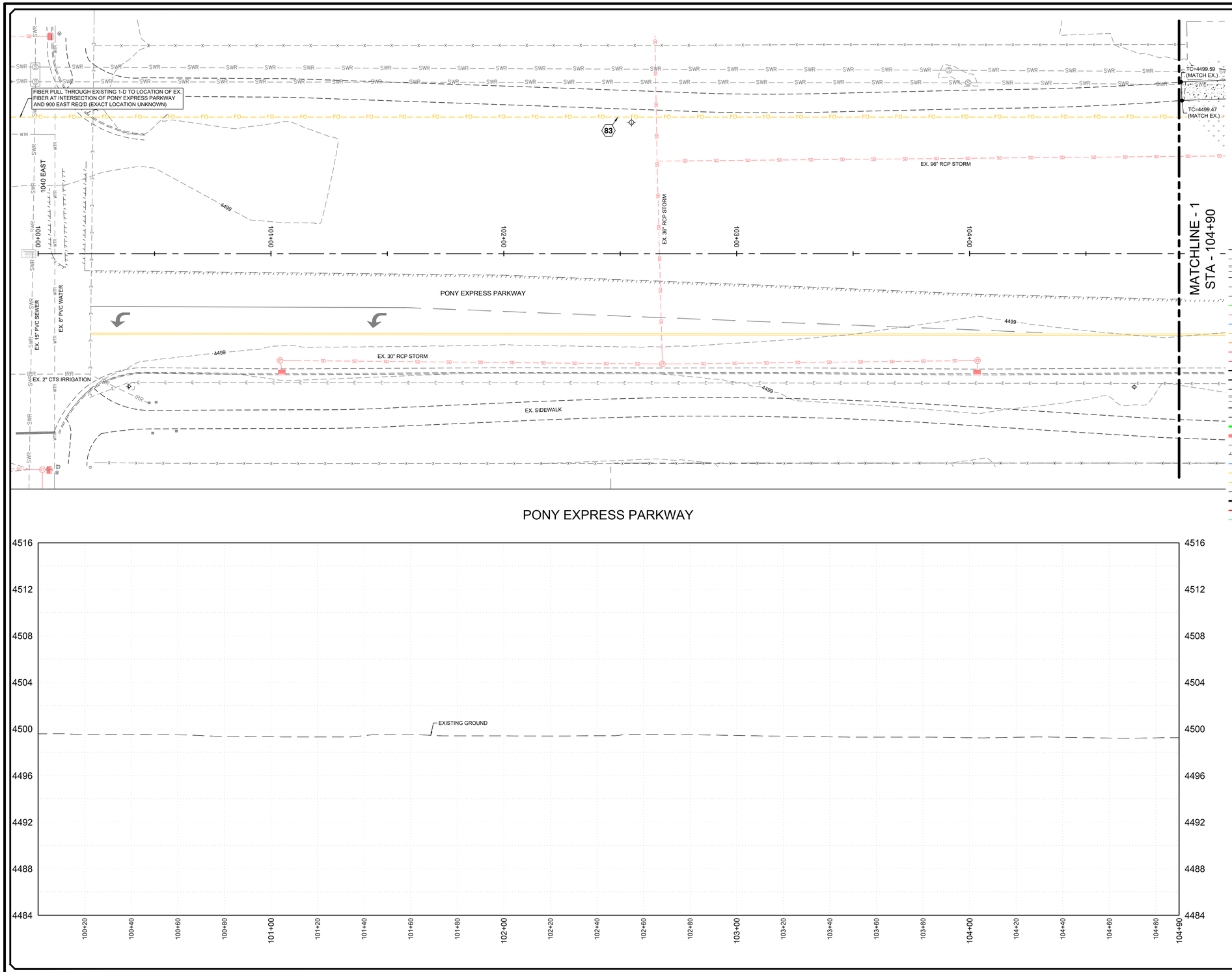
SHEET NO. C3.0



LEGEND

- 4500 EXISTING 5' CONTOUR
- 4501 EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- SWR EXISTING SEWER LINE
- SD EXISTING STORM DRAIN LINE
- WTR EXISTING WATER LINE
- T EXISTING TELEPHONE LINE
- G EXISTING GAS LINE
- E EXISTING ELECTRICAL
- OHE EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- 4500 PROPOSED 5' CONTOUR
- 4501 PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- X PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- WTR PROPOSED WATER LINE
- 1D PROPOSED 1-D CONDUIT BANK
- FO PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

PONY EXPRESS PARKWAY

BID SET

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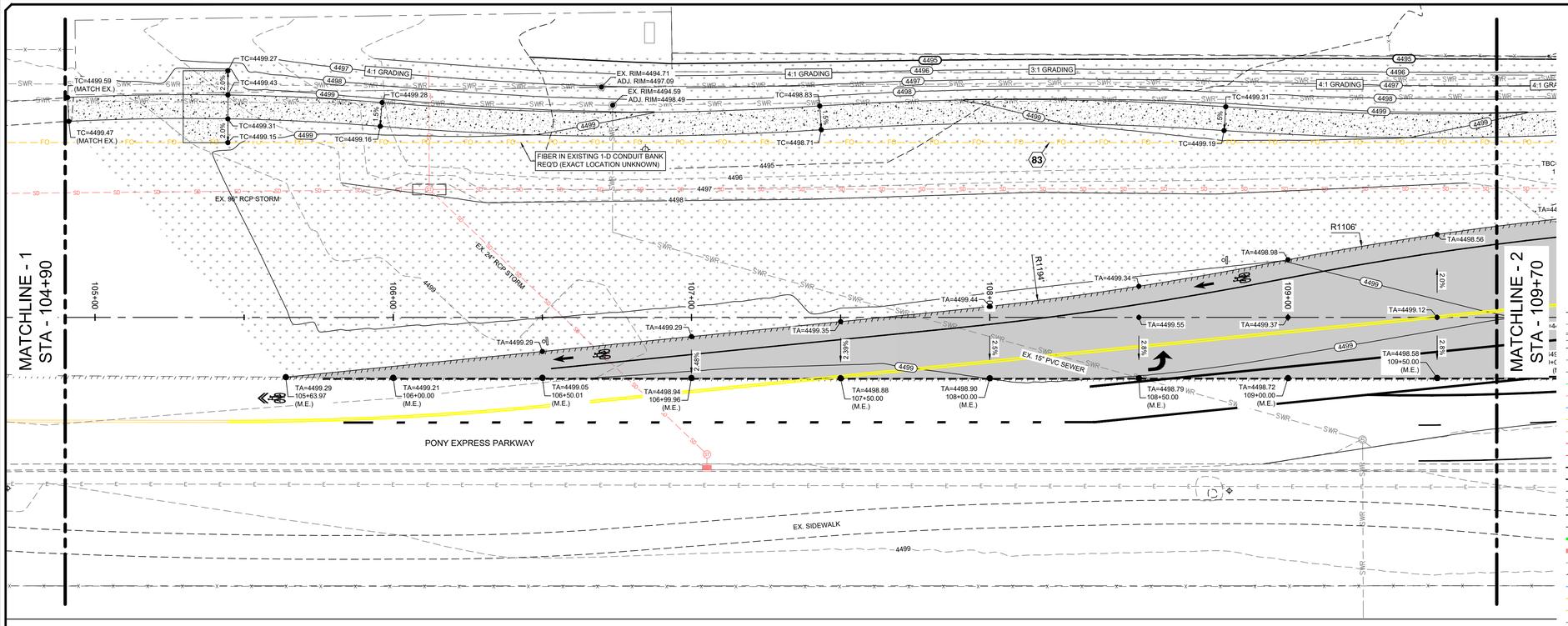
SARATOGA ROAD & 145 NORTH IMPROVEMENTS

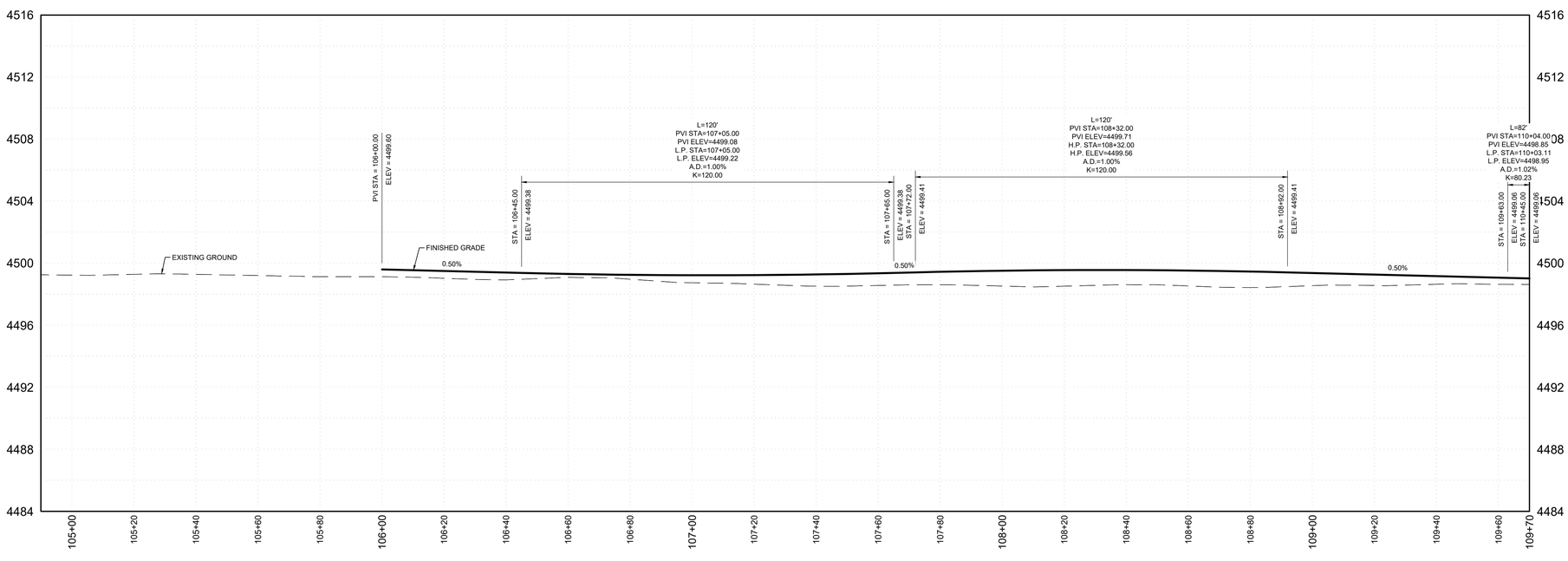
GRADING & DRAINAGE PLAN & PROFILE
100+00 ~ 104+90

MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG\03-P&P — DRAWING FILE

SARATOGA SPRINGS
CITY

SHEET NO. C3.1





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−20 0 20 40

SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
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- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
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BID SET

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE
104+90 ~ 109+70

MARCH 12, 2026 — LAST REVISED
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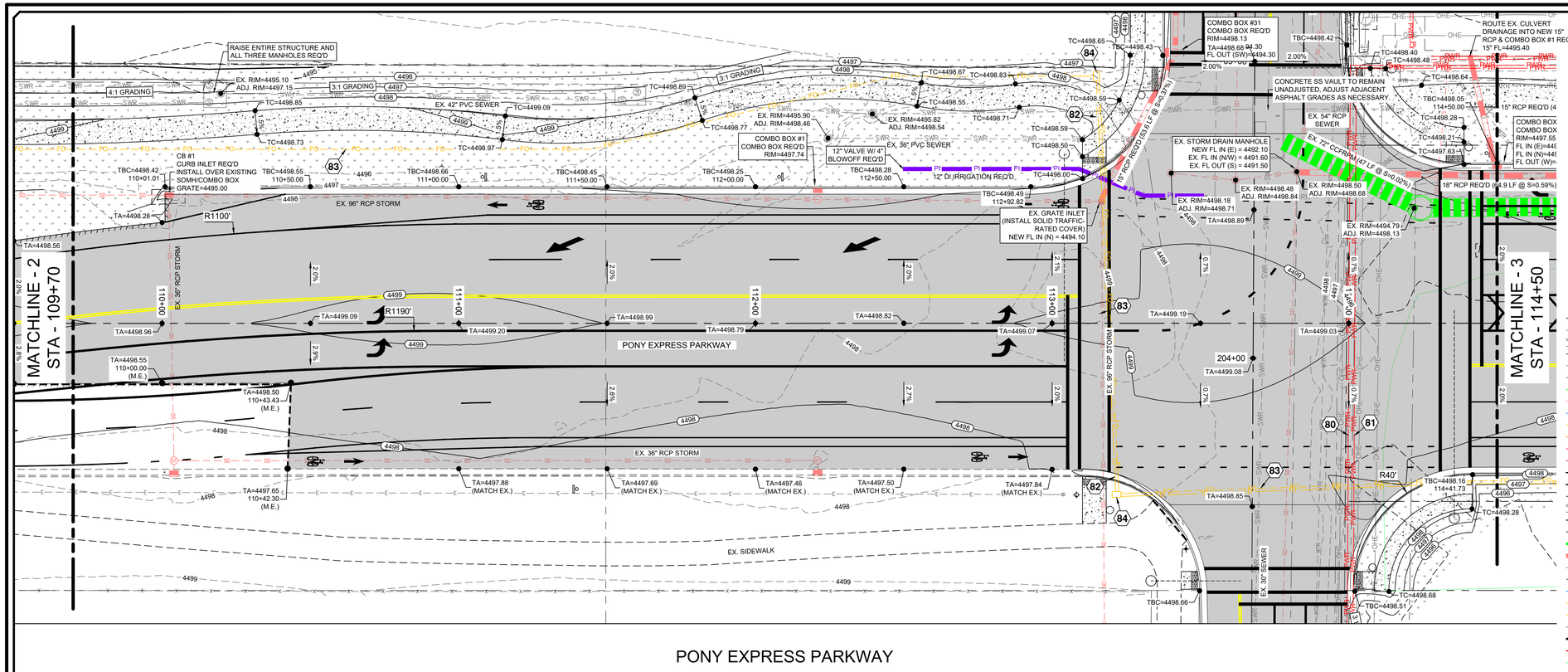
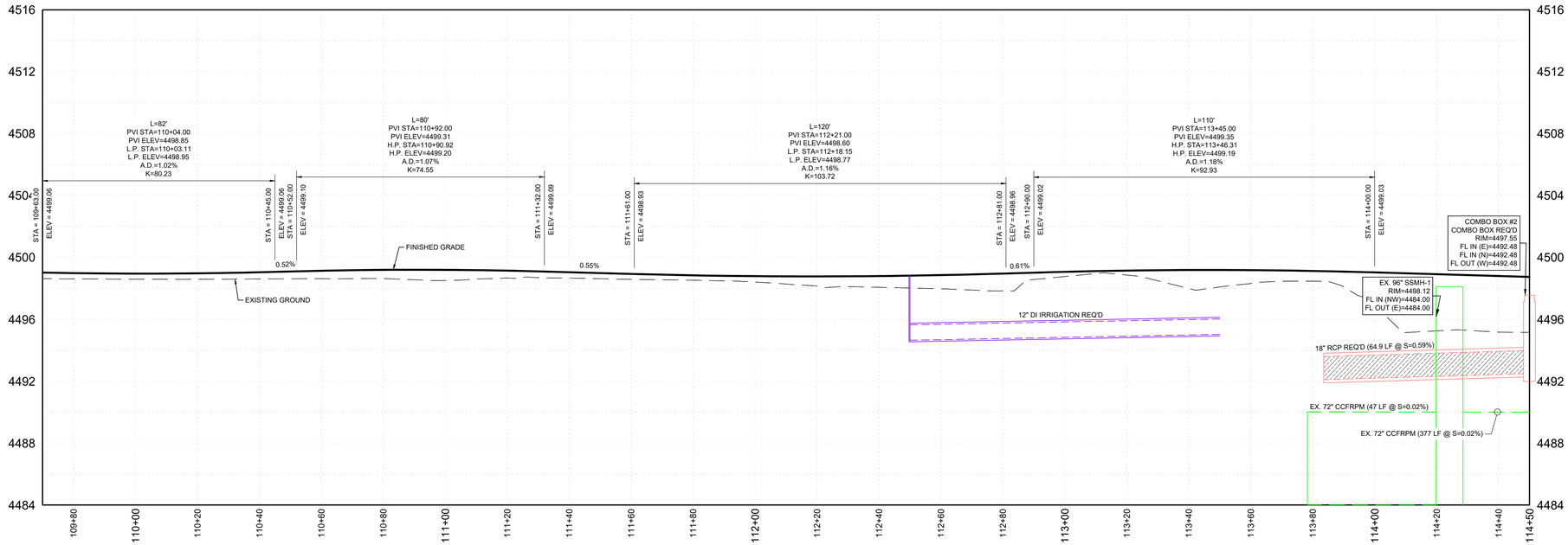
SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.2





PONY EXPRESS PARKWAY

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SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
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- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
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- PROPOSED CENTER LINE
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- PROPOSED SEWER LINE
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- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

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109+70 ~ 114+50

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SARATOGA SPRINGS
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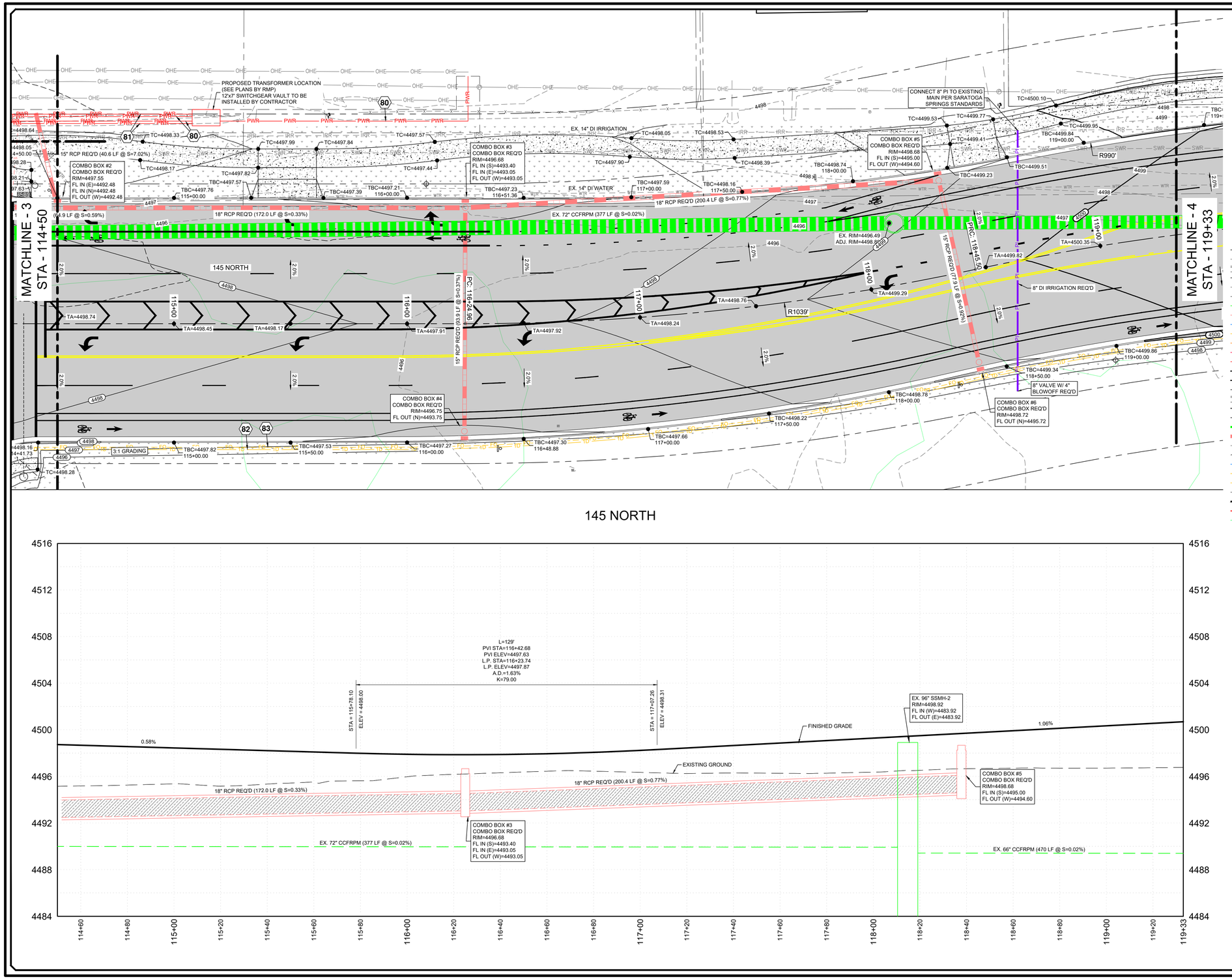
Blue Stakes of UTAH811 Bluestakes.org

SHEET NO. C3.3



145 NORTH

N

−20 0 20 40

SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

81 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

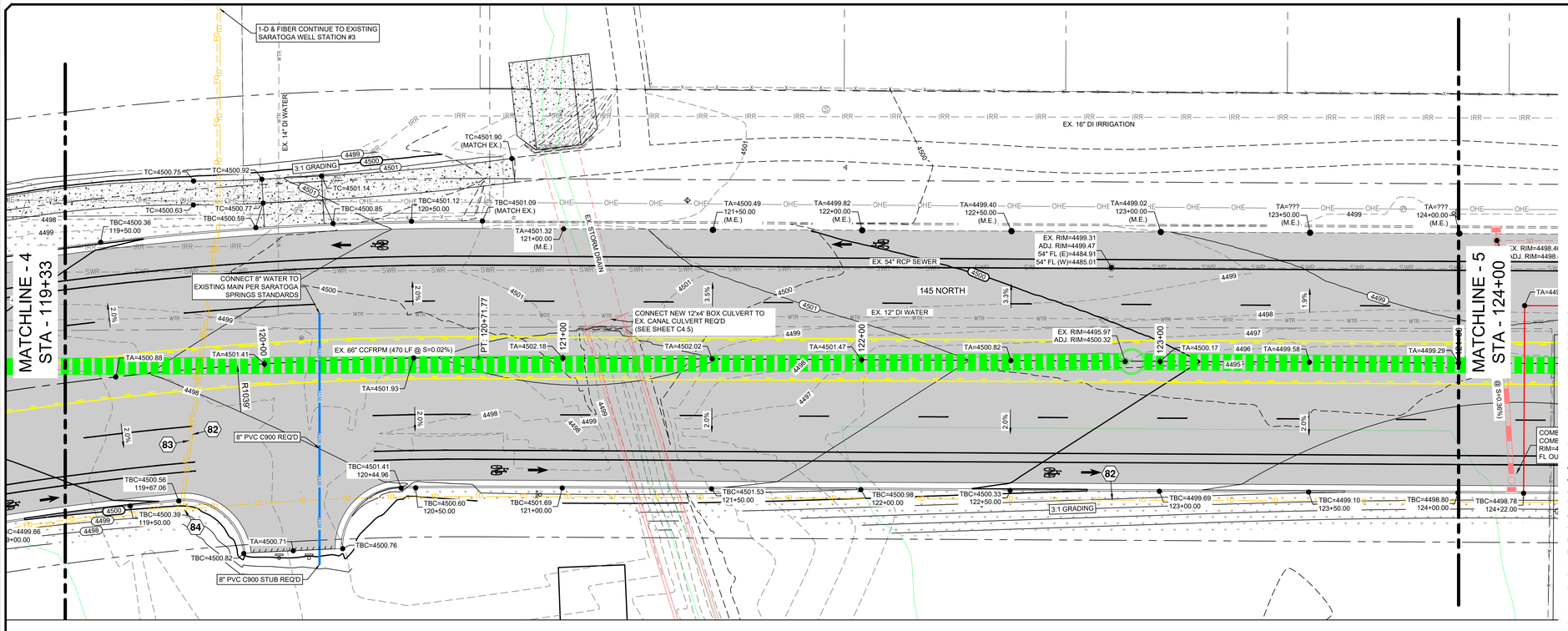
GRADING & DRAINAGE PLAN & PROFILE
114+50 ~ 119+33

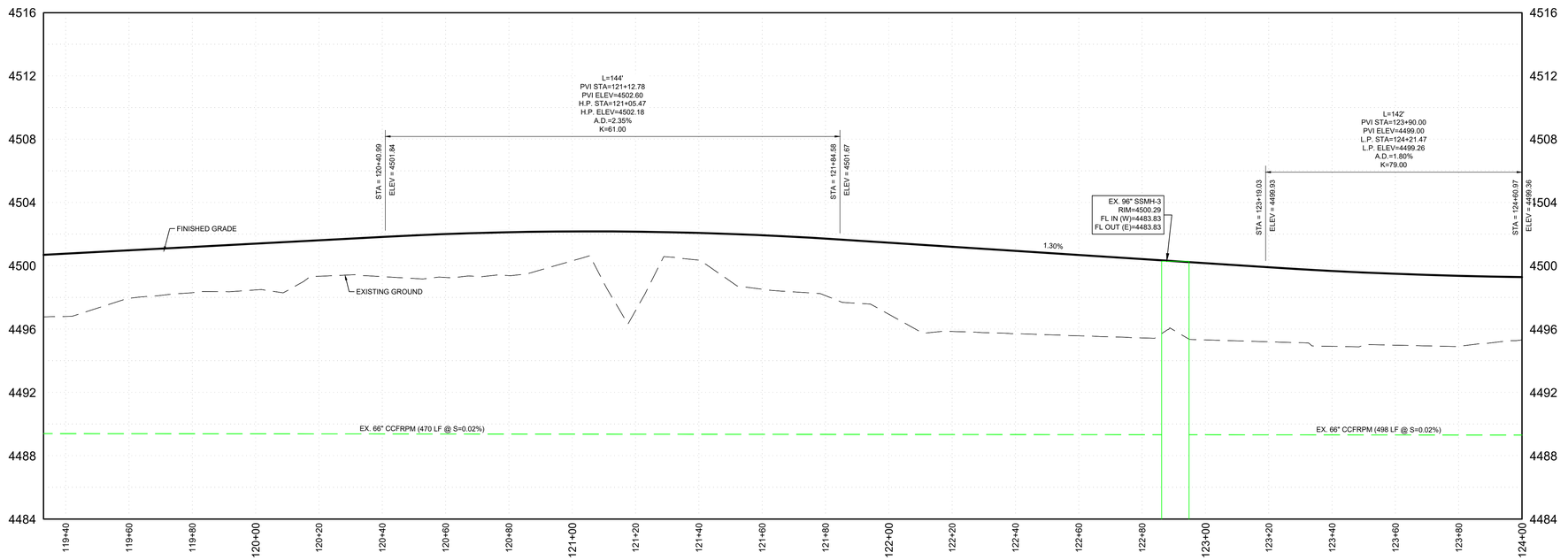
MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG\03-P&P — DRAWING FILE

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.4





N

−20 0 20 40

SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

81 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE:	12/23
SURVEY BY:	CMT CREW
DRAWN BY:	RPB/AJP
DESIGNED BY:	RPB
CHECKED BY:	TDB
SCALE:	1"=20'

CMT TECHNICAL SERVICES
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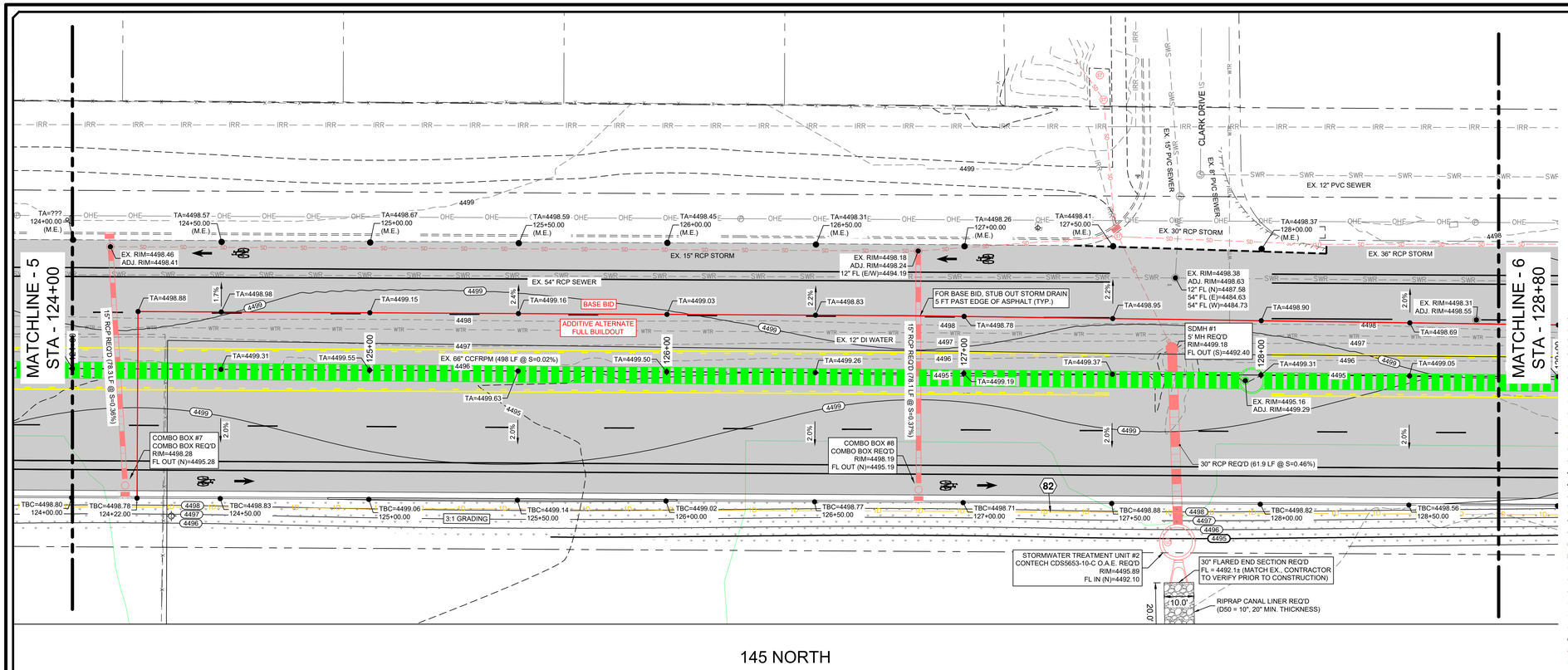
SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE
119+33 ~ 124+00

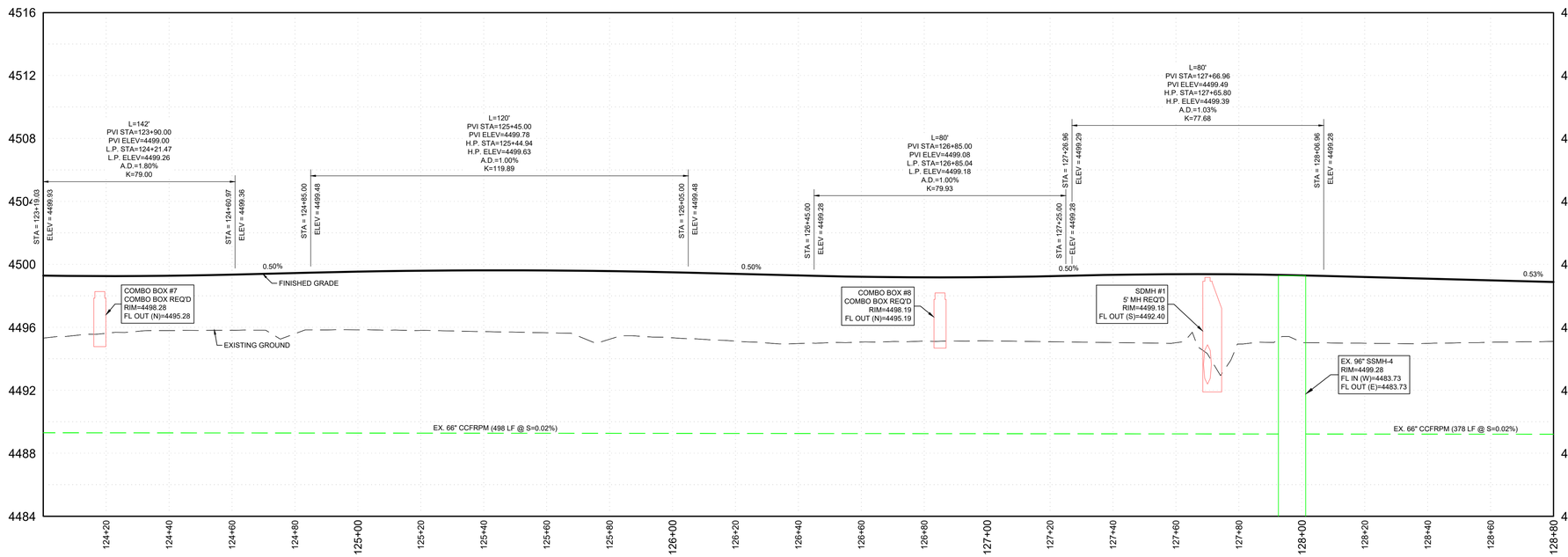
DWG\03-P&P	DRAWING FILE
1005.2317	PROJECT NUMBER
MARCH 12, 2026	LAST REVISED

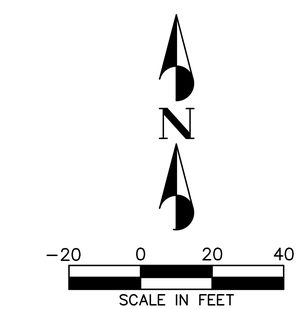
SARATOGA SPRINGS
CITY

SHEET NO. C3.5



145 NORTH





LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH 811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23 | SURVEY BY: CMT CREW | DRAWN BY: RPB/MJP | DESIGNED BY: RPB | CHECKED BY: TDB | SCALE: 1"=20'

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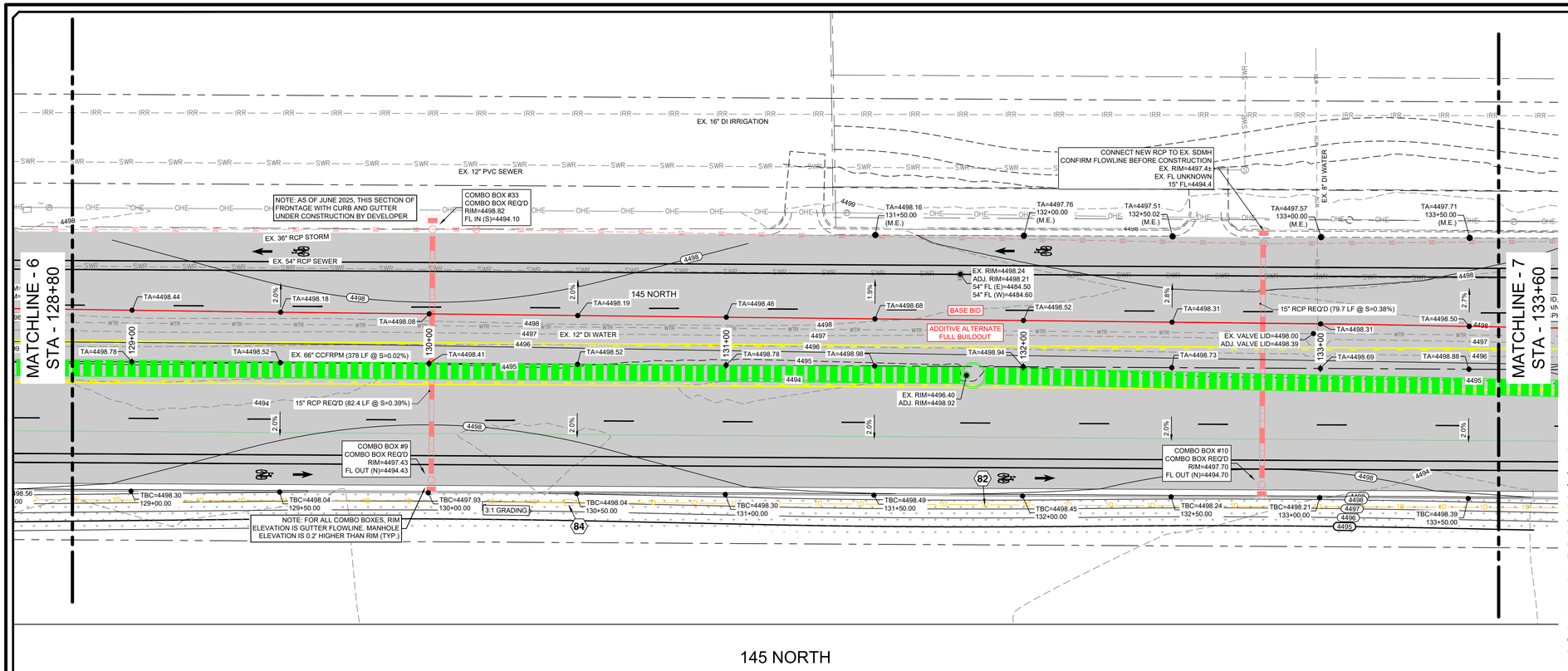
SARATOGA ROAD & 145 NORTH IMPROVEMENTS

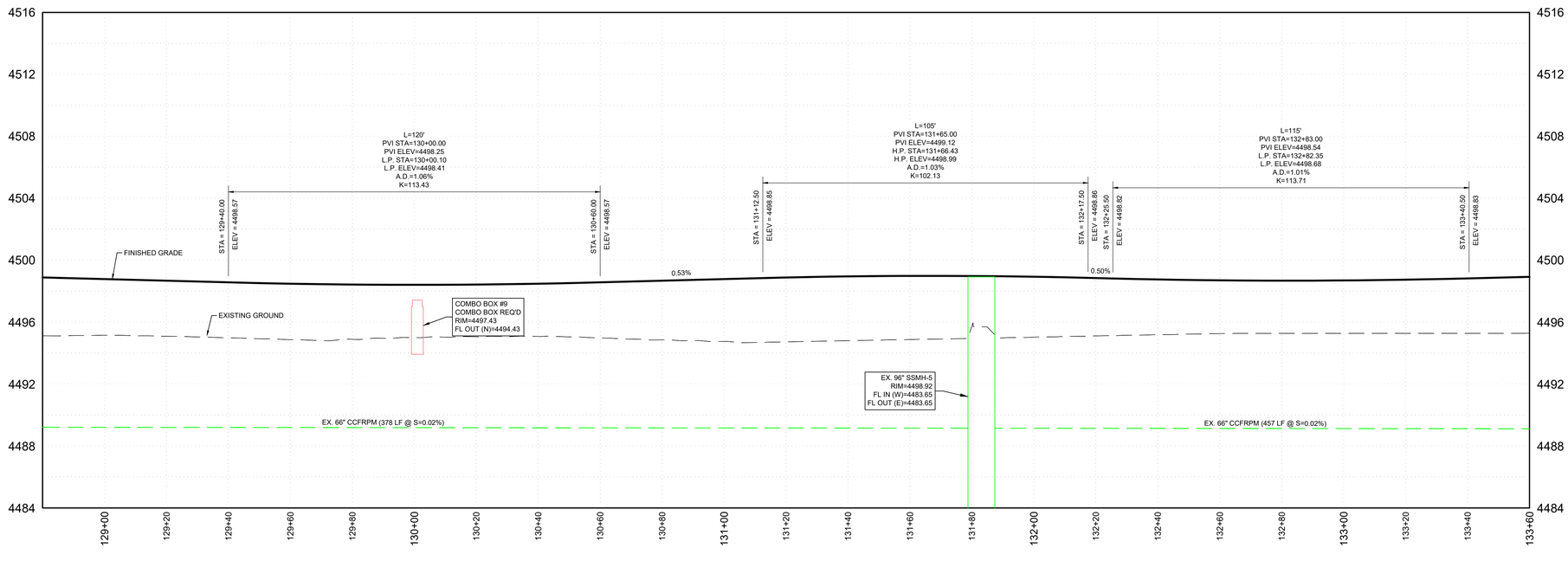
GRADING & DRAINAGE PLAN & PROFILE
124+00 ~ 128+80

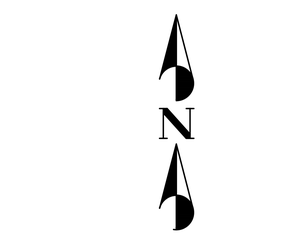
MARCH 12, 2026 (LAST REVISED) | 1005.2317 (PROJECT NUMBER) | DWG \03-P&P (DRAWING FILE)

SARATOGA SPRINGS
CITY

SHEET NO. C3.6







LEGEND

- 4500 EXISTING 5' CONTOUR
- 4501 EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- SWR EXISTING SEWER LINE
- SD EXISTING STORM DRAIN LINE
- WTR EXISTING WATER LINE
- T EXISTING TELEPHONE LINE
- G EXISTING GAS LINE
- E EXISTING ELECTRICAL
- OHE EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- 4500 PROPOSED 5' CONTOUR
- 4501 PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- WTR PROPOSED WATER LINE
- 1D PROPOSED 1-D CONDUIT BANK
- FO PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

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81 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE 128+80 ~ 133+60

MARCH 12, 2026
LAST REVISED

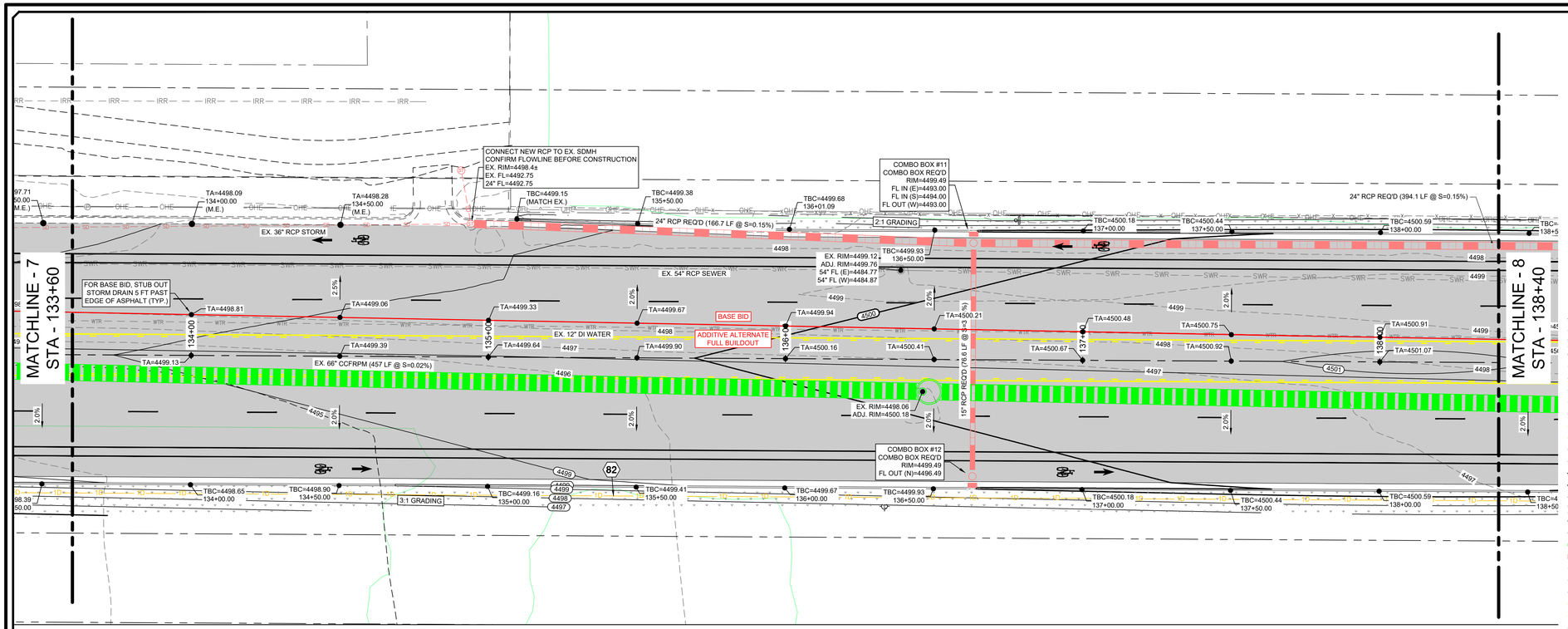
DWG \03-P&P
DRAWING FILE

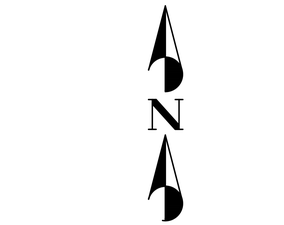
1005.2317
PROJECT NUMBER

SARATOGA SPRINGS
CITY

ENGINEER'S CERTIFICATE
I HEREBY CERTIFY THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF UTAH, HOLDING CERTIFICATE NO. 4899908-2202, AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH. JAMES J. MILLIGAN
3-12-26

SHEET NO. C3.7





LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
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- PROPOSED 1-D CONDUIT BANK
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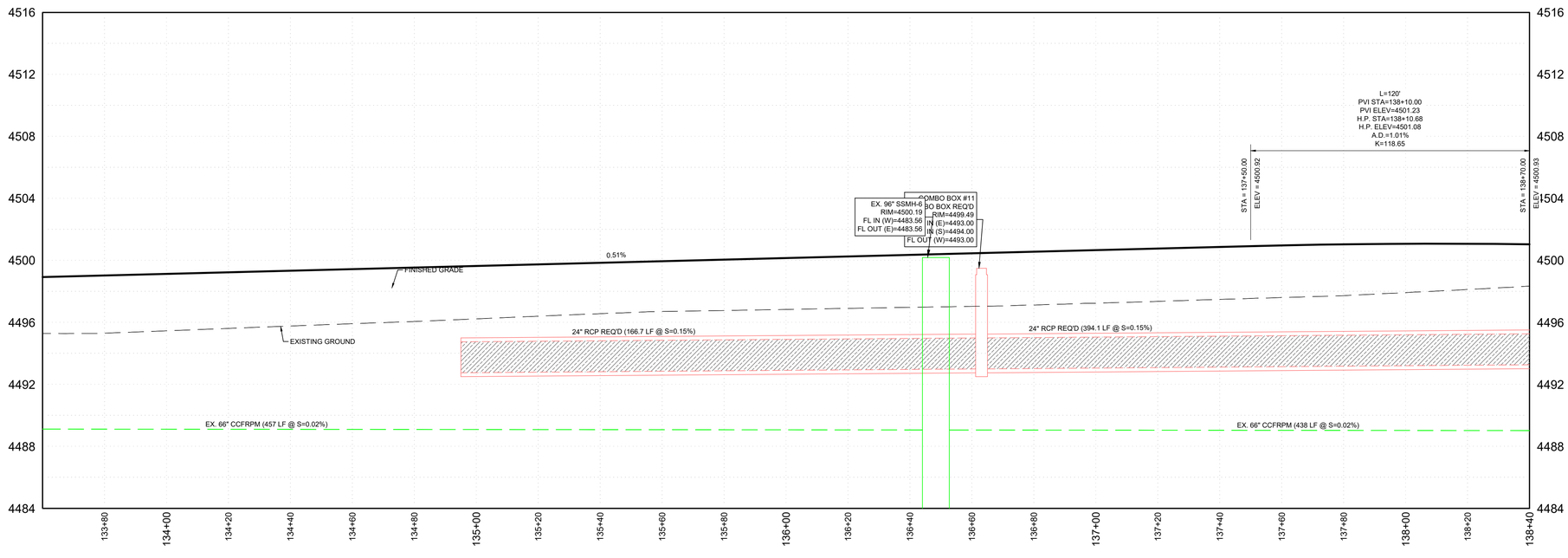
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

145 NORTH



BID SET

Blue Stakes of UTAH 811 — Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D				

ORIG. DATE:	12/23	DESIGNED BY:	RPB
SURVEY BY:	CMT CREW	CHECKED BY:	TDB
DRAWN BY:	RPB/AJP	SCALE:	1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

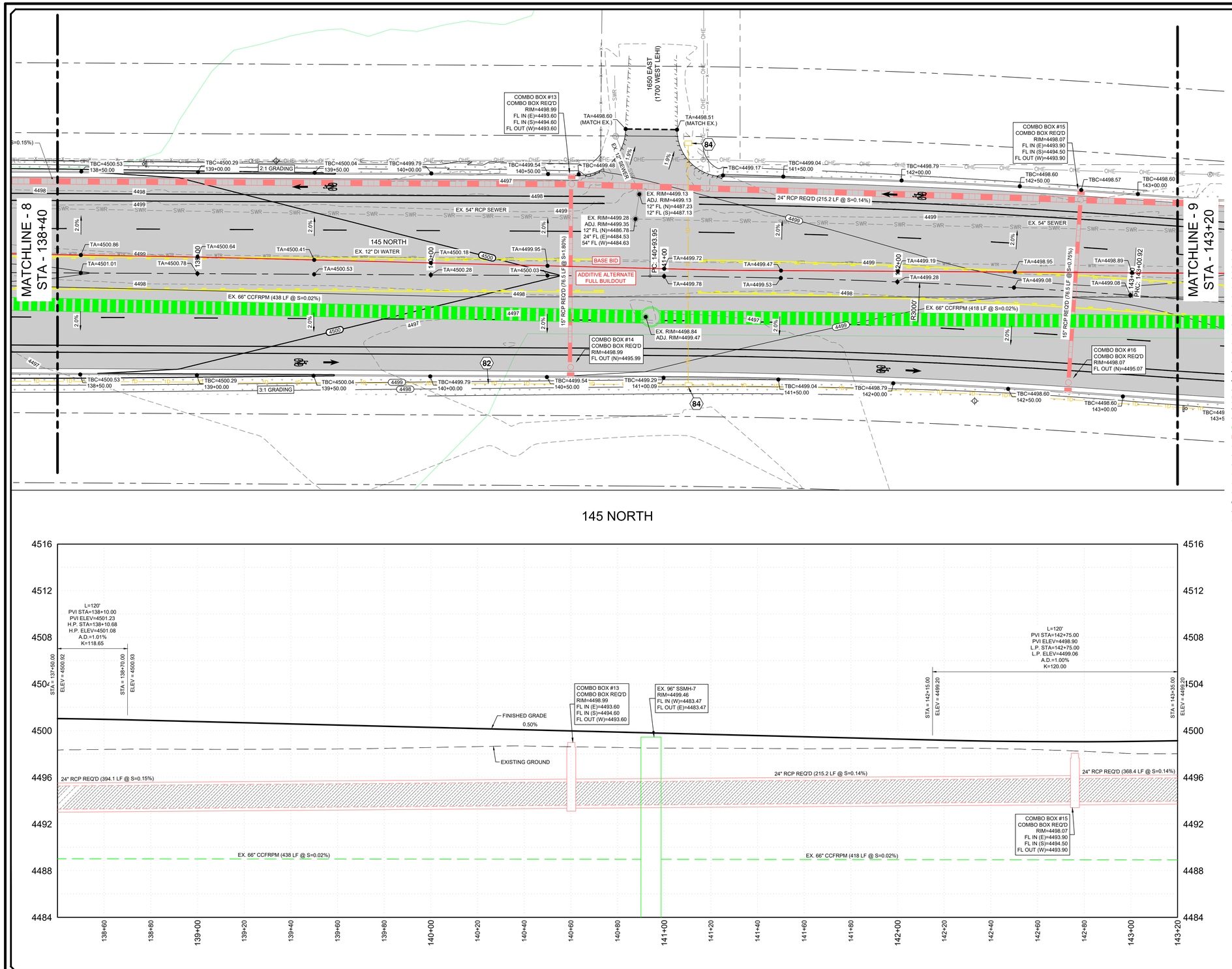
GRADING & DRAINAGE PLAN & PROFILE
133+60 ~ 138+40

MARCH 12, 2026	LAST REVISED	1005.2317	PROJECT NUMBER
DWG\03-P&P	DRAWING FILE		

SARATOGA SPRINGS
CITY

PROFESSIONAL ENGINEER — No. 4939908-2202 — JAMES J. MILLIGAN — 3-12-26 — STATE OF UTAH

SHEET NO. C3.8



LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
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- PROPOSED 1-D CONDUIT BANK
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KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

145 NORTH

BID SET

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SURVEY BY:	CMT CREW
DRAWN BY:	RPB/MJP
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

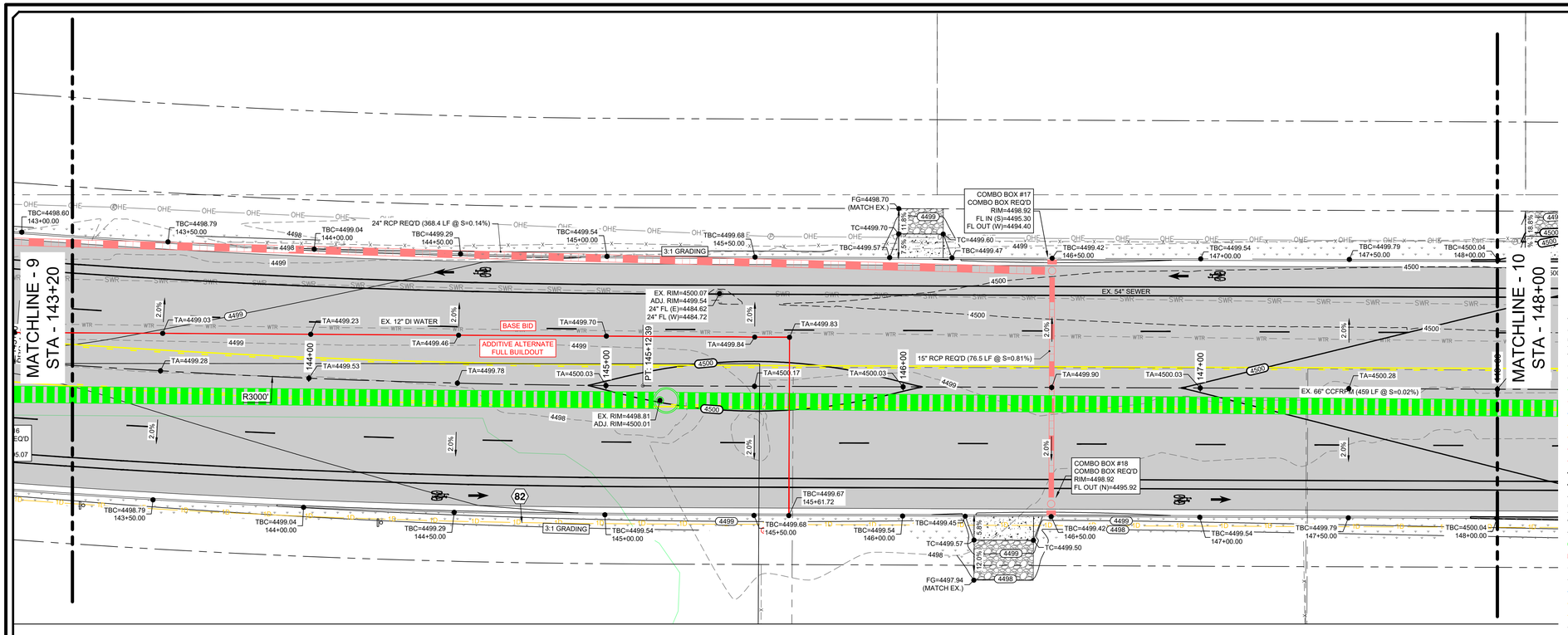
GRADING & DRAINAGE PLAN & PROFILE
138+40 ~ 143+20

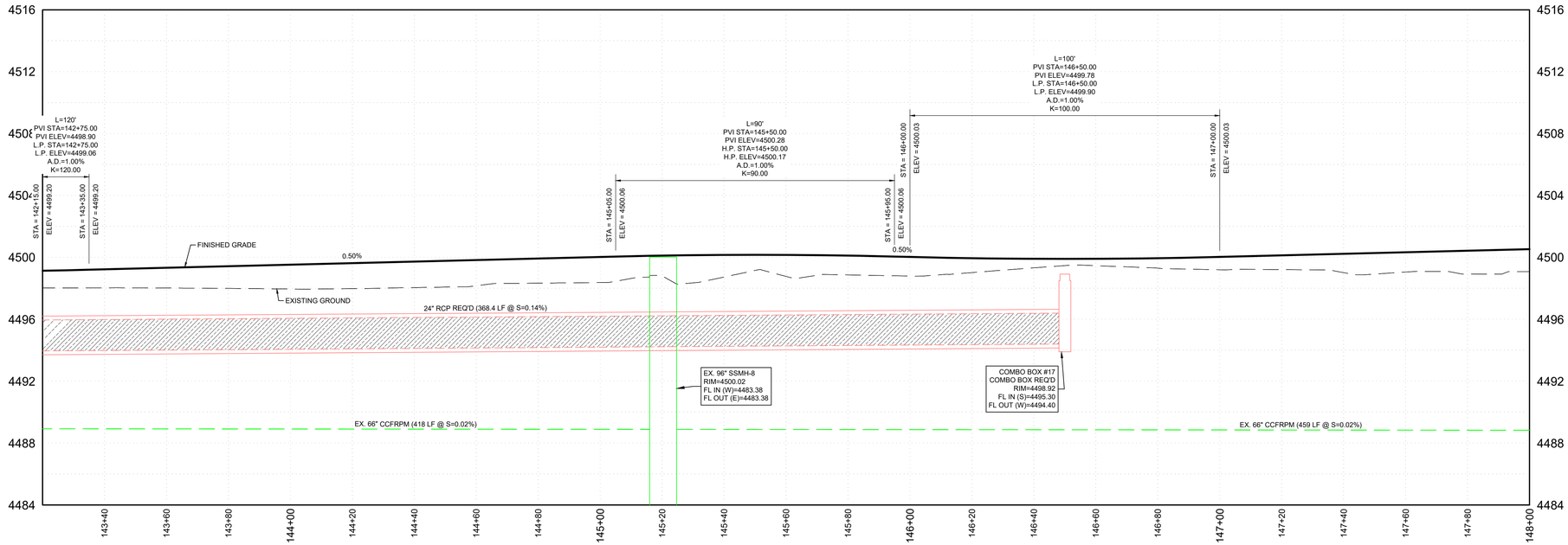
DWG \03-P&P	
DRAWING FILE	
1005.2317	
PROJECT NUMBER	
MARCH 12, 2026	
LAST REVISED	

SARATOGA SPRINGS
CITY

SHEET NO. C3.9

Blue Stakes of UTAH 811 Bluestakes.org





N

−20 0 20 40

SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
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- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

81 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/MJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=20'

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

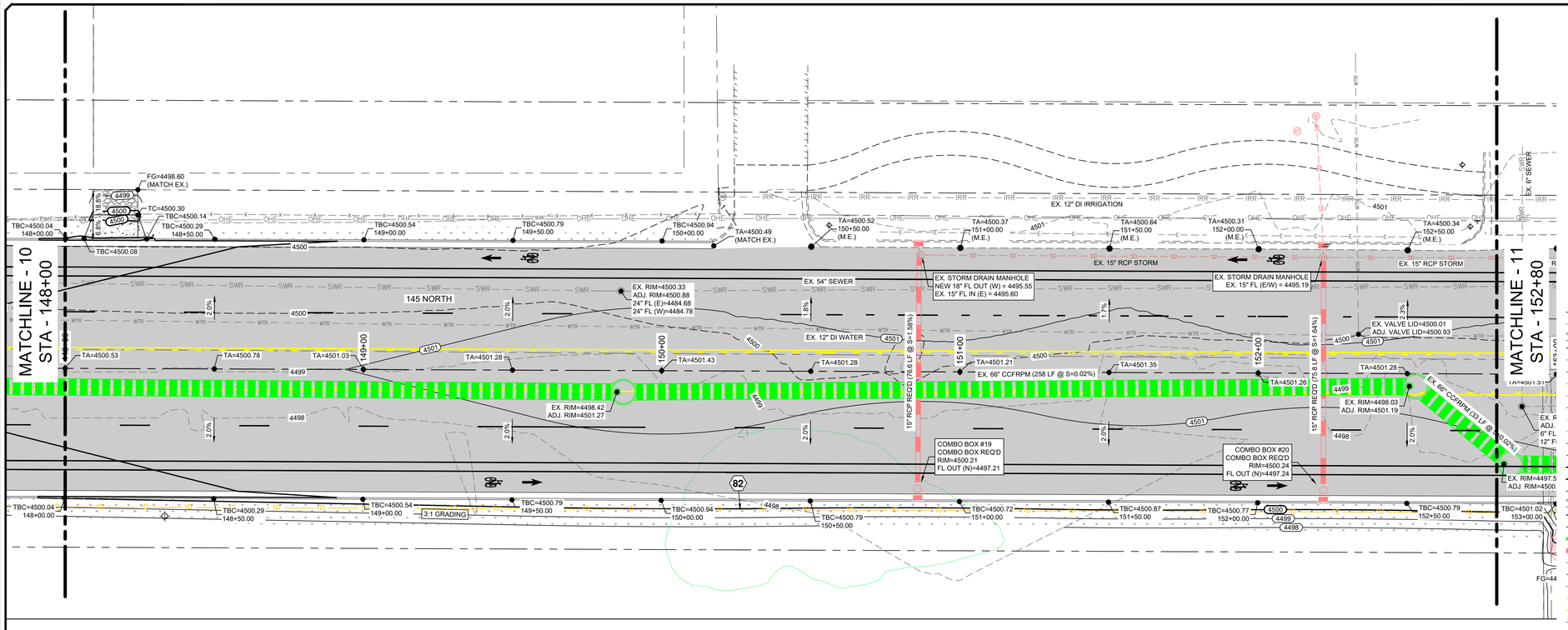
GRADING & DRAINAGE PLAN & PROFILE
143+20 ~ 148+00

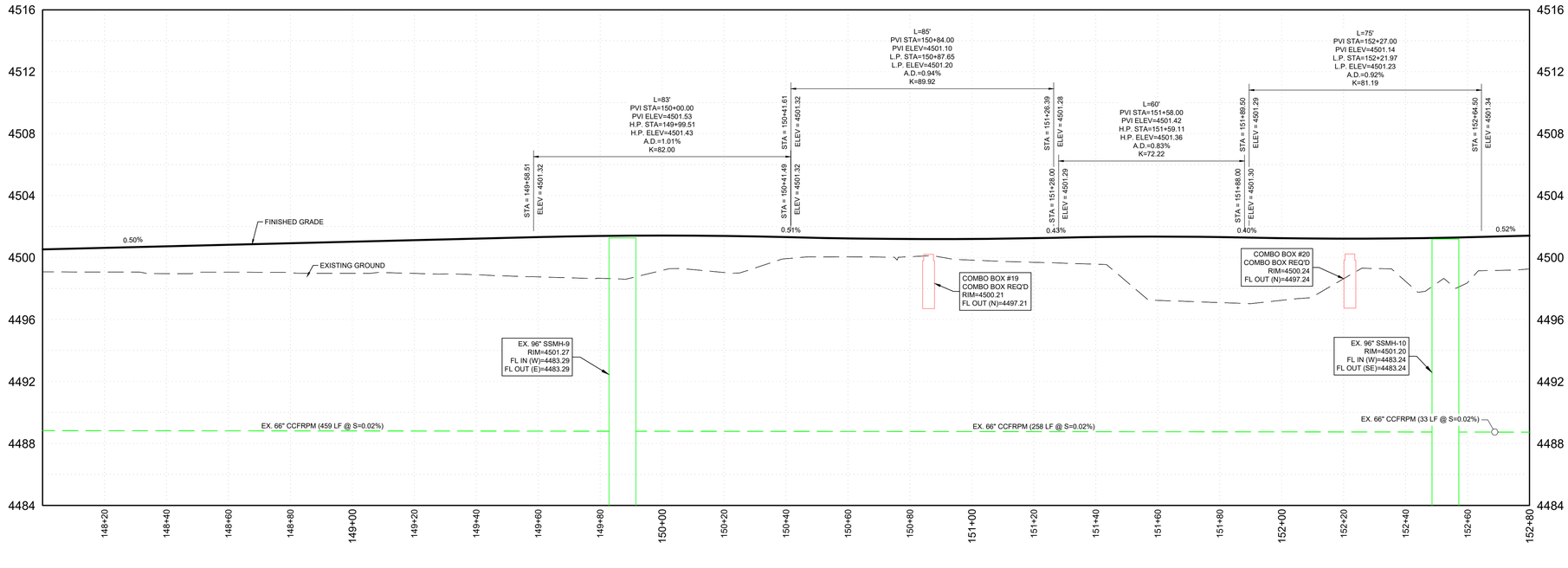
MARCH 12, 2026 — LAST REVISED
DWG\03-P&P — DRAWING FILE
1005.2317 — PROJECT NUMBER

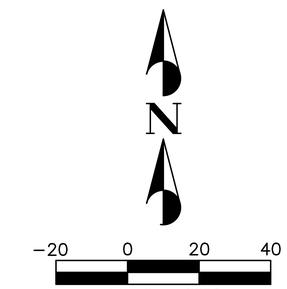
SARATOGA SPRINGS
CITY

Blue Stakes of UTAH 811 Bluestakes.org

SHEET NO. C3.10







LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/MJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

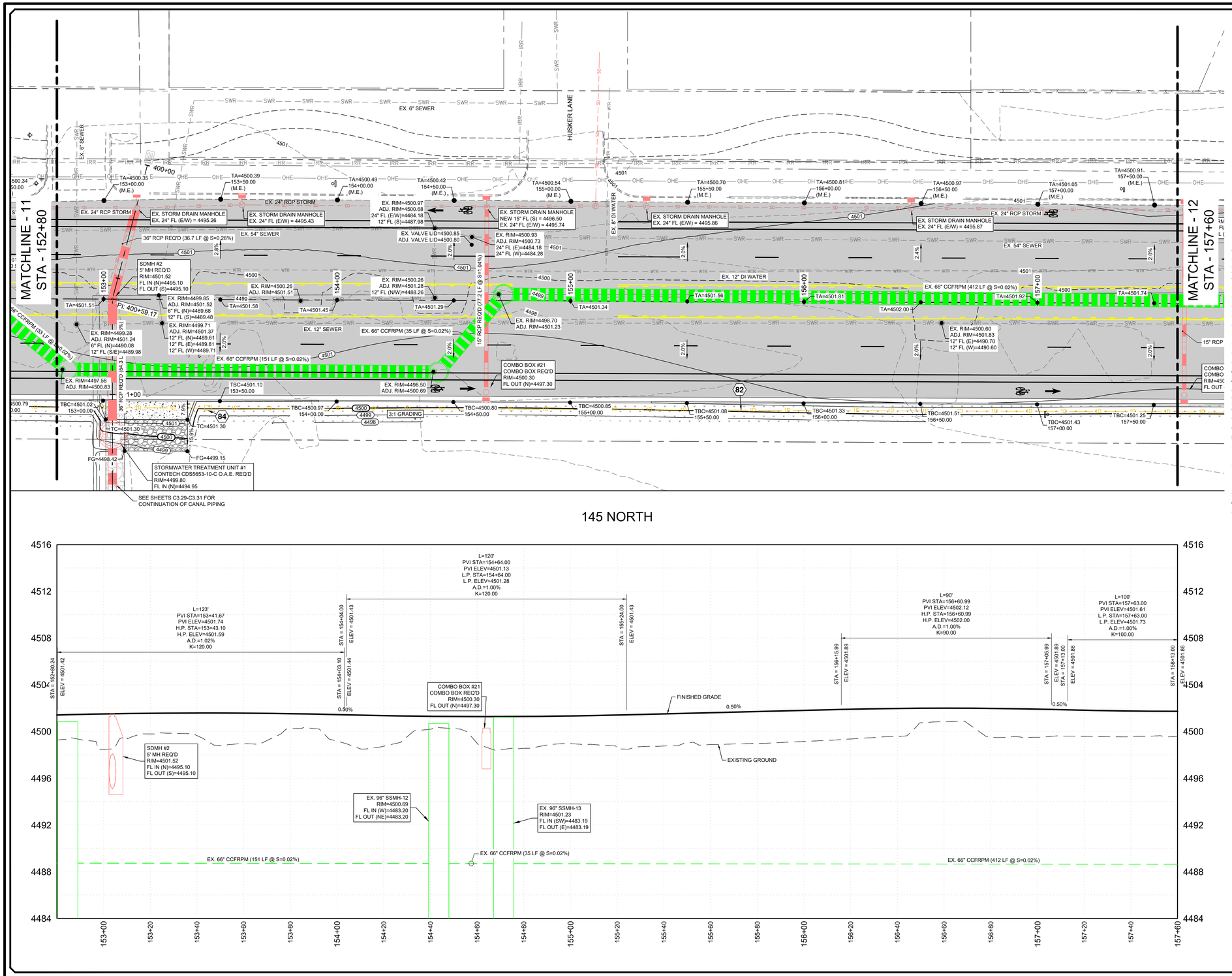
GRADING & DRAINAGE PLAN & PROFILE 148+00 ~ 152+80

DWG\03-P&P
DRAWING FILE
1005.2317
PROJECT NUMBER
MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4999908-2202
JAMES J. MILLIGAN
STATE OF UTAH
3-12-26

SHEET NO. C3.11



145 NORTH

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

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82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

NO.	DESCRIPTION	DATE	APP'D

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE
152+80 ~ 157+60

DWG\103-P&P
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1005.2317
PROJECT NUMBER
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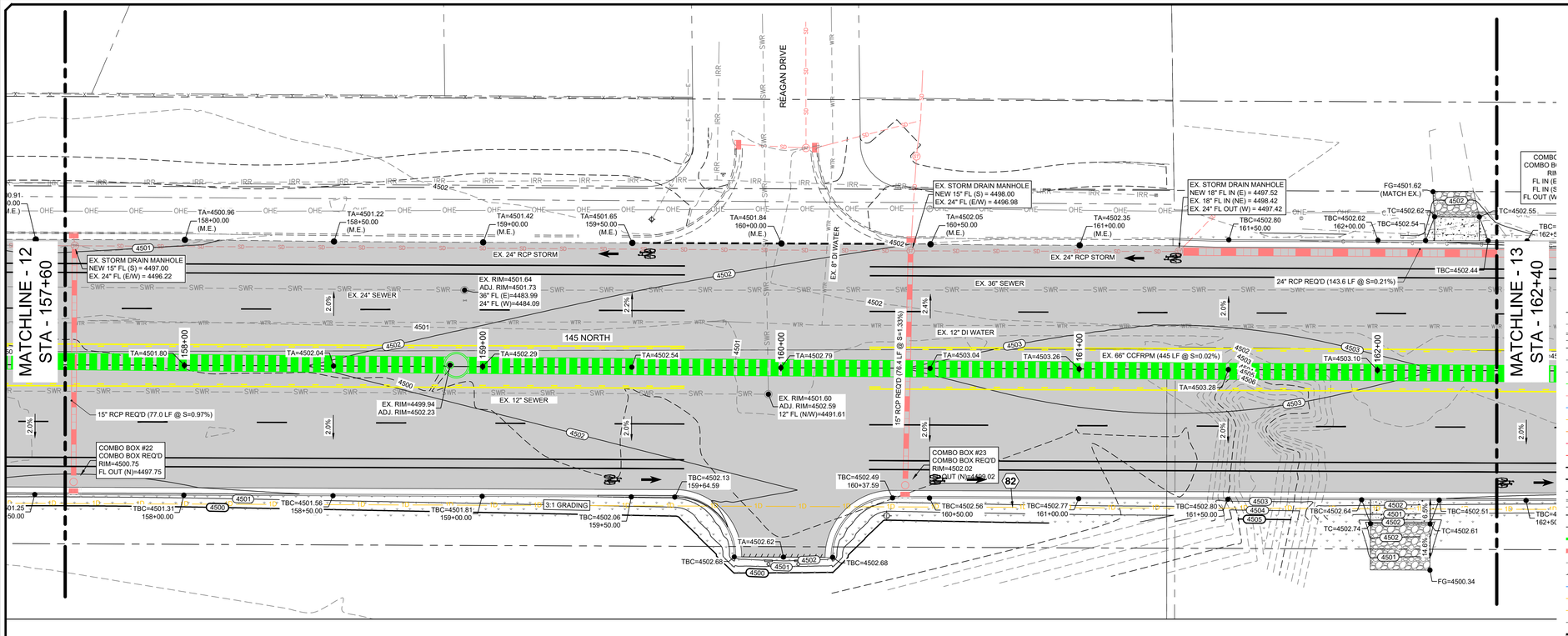
SARATOGA SPRINGS
CITY

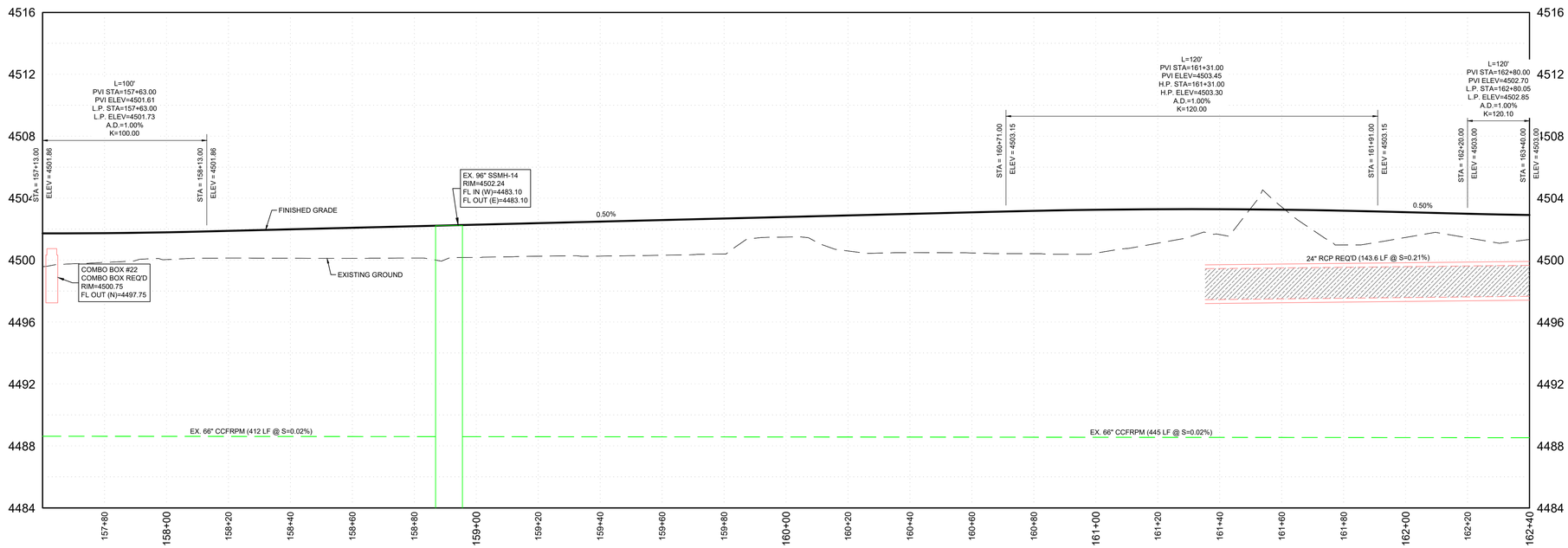
REGISTERED PROFESSIONAL ENGINEER
No. 4999908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

BID SET

Blue Stakes of UTAH 811
Bluestakes.org

SHEET NO. C3.12





N

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SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
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- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
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KEYNOTE LEGEND

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82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH 811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

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ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE
157+60 ~ 162+40

DWG\03-P&P
DRAWING FILE

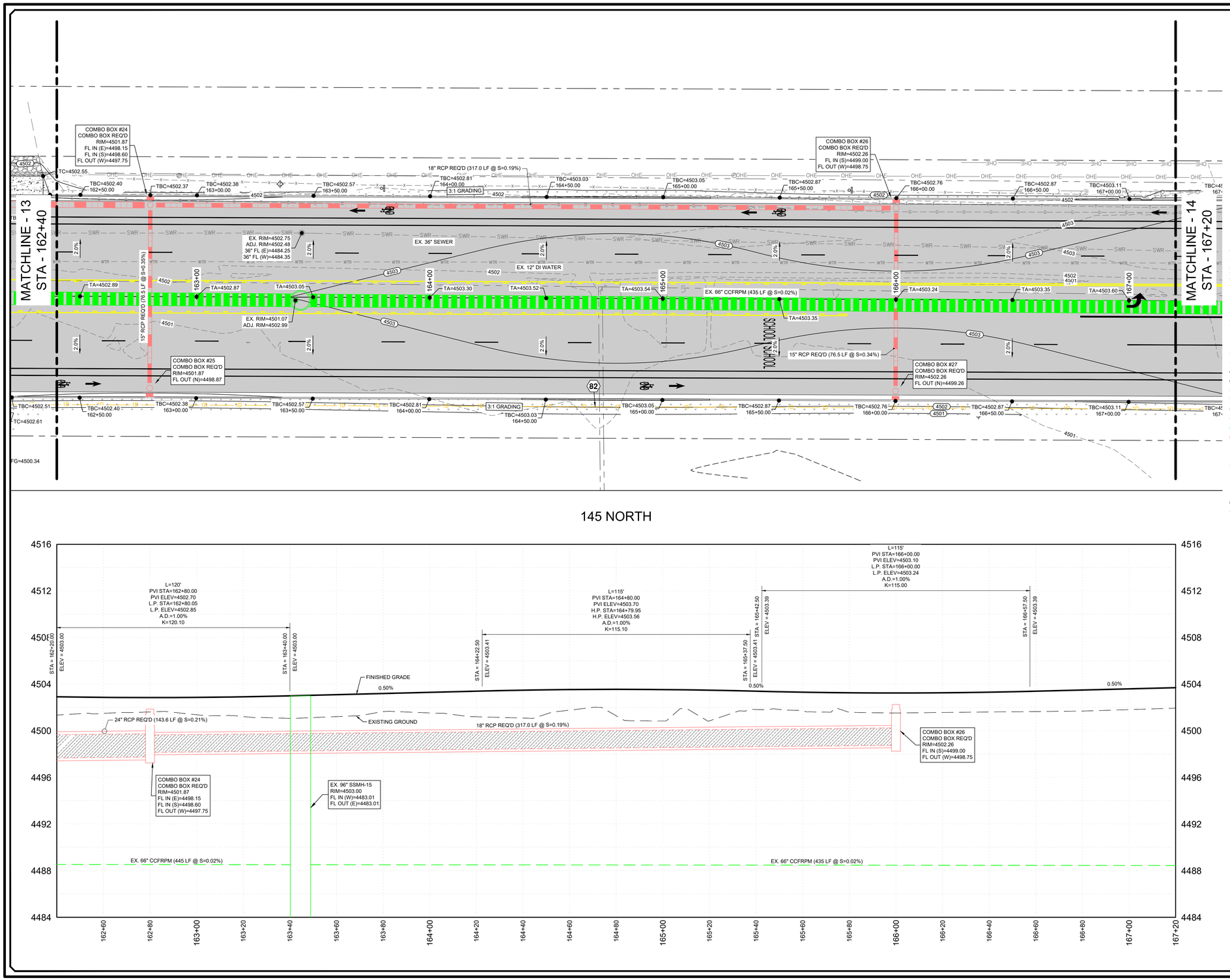
1005.2317
PROJECT NUMBER

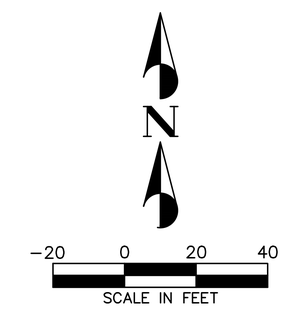
MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS
CITY

PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.13





LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
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- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

145 NORTH

BID SET

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE:	12/23	DESIGNED BY:	RPB
SURVEY BY:	CMT CREW	CHECKED BY:	TDB
DRAWN BY:	RPB/MJP	SCALE:	1"=20'

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

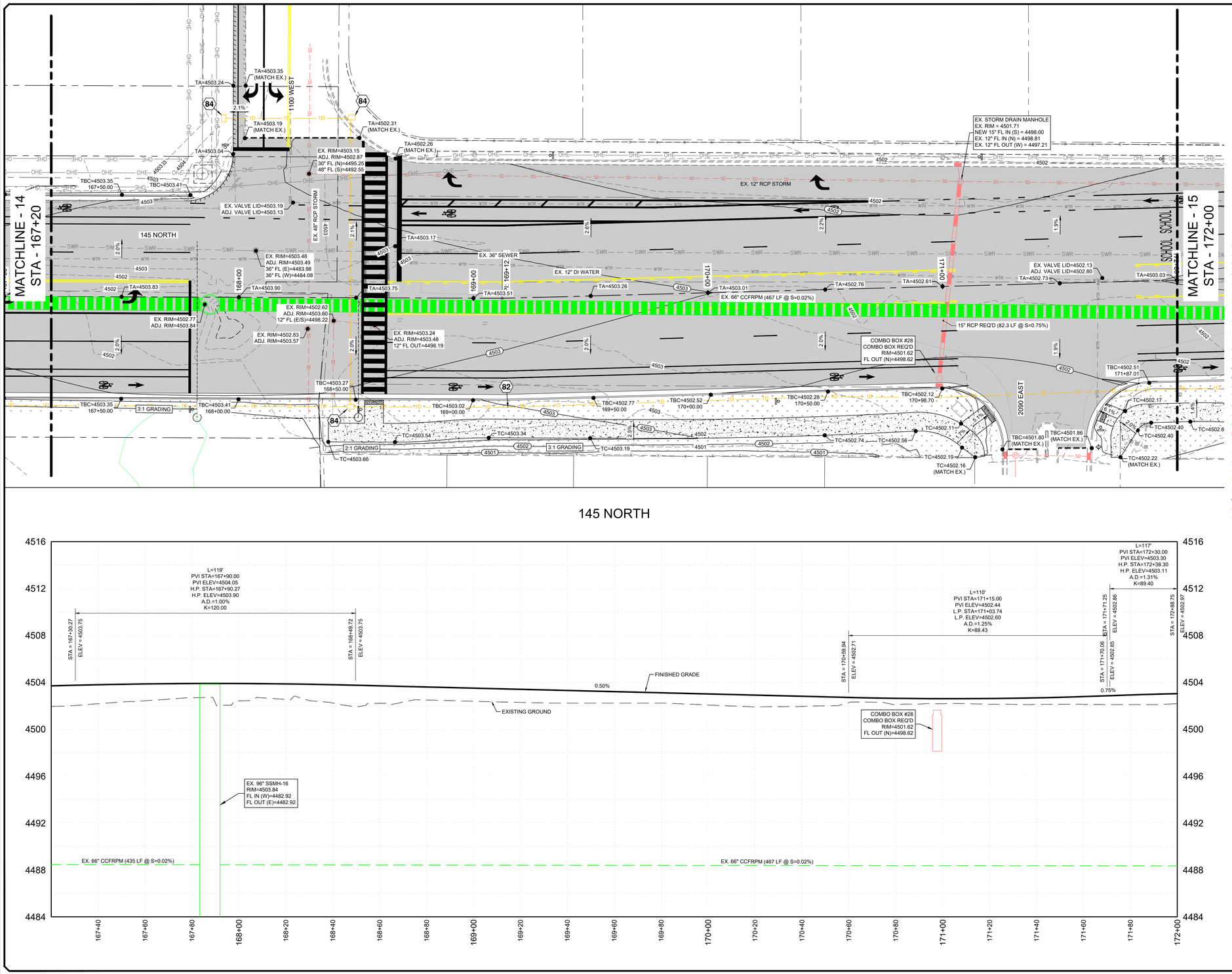
GRADING & DRAINAGE PLAN & PROFILE
162+40 ~ 167+20

MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG \03-P&P — DRAWING FILE

SARATOGA SPRINGS
CITY

SHEET NO. C3.14

Blue Stakes of UTAH 811
Bluestakes.org



LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
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- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
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- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
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KEYNOTE LEGEND

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82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

145 NORTH

BID SET

NO.	DESCRIPTION	DATE	APP'D

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CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

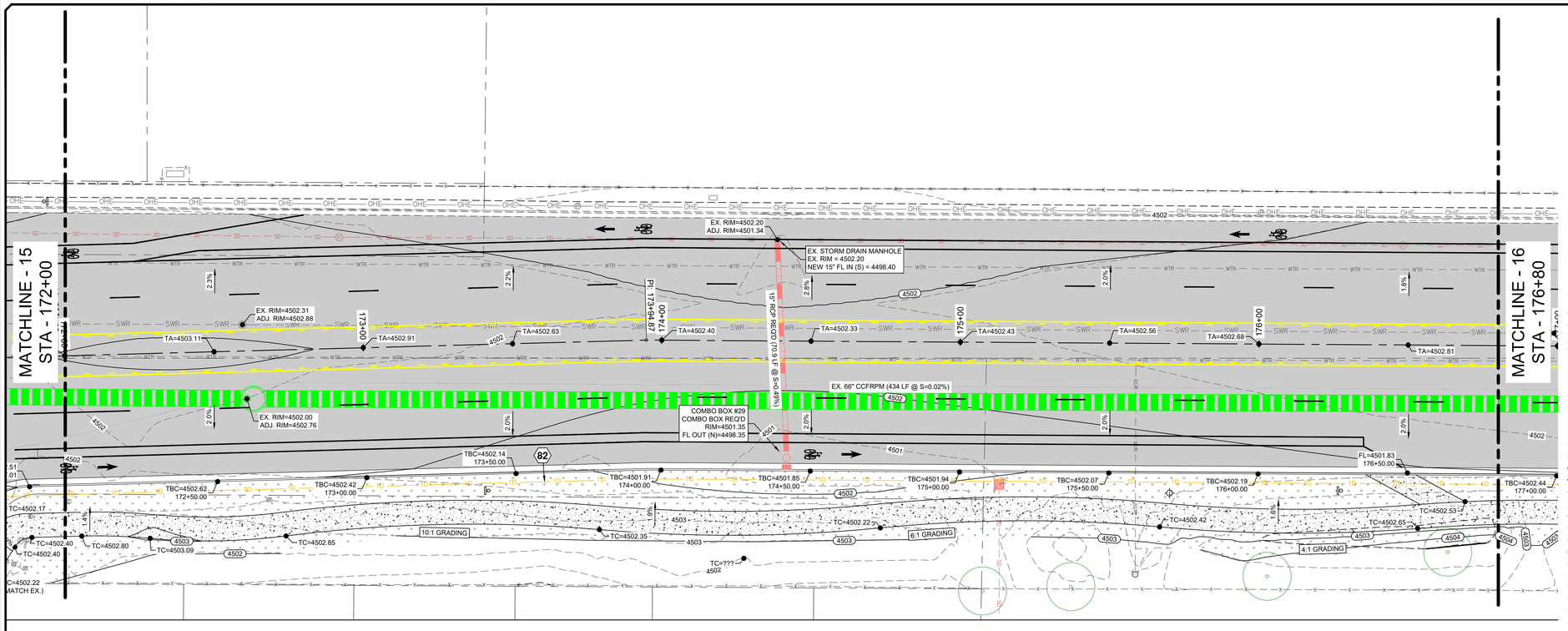
GRADING & DRAINAGE PLAN & PROFILE
167+20 ~ 171+35

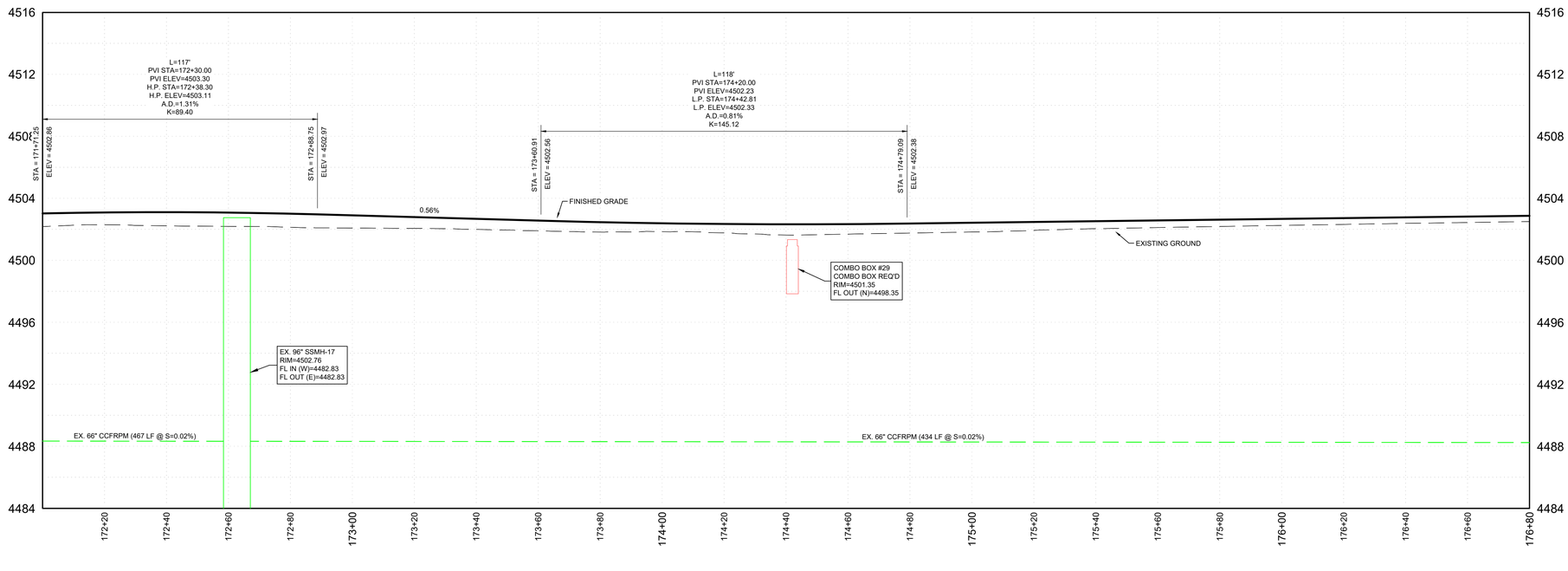
MARCH 12, 2026	DWG \03-P&P
LAST REVISED	DRAWING FILE
1005.2317	PROJECT NUMBER

SARATOGA SPRINGS
CITY

Blue Stakes of UTAH 811 Bluestakes.org

SHEET NO. C3.15





LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
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- EXISTING ELECTRICAL
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- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
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- PROPOSED STORM DRAIN LINE
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- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

BID SET

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CMT TECHNICAL SERVICES
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

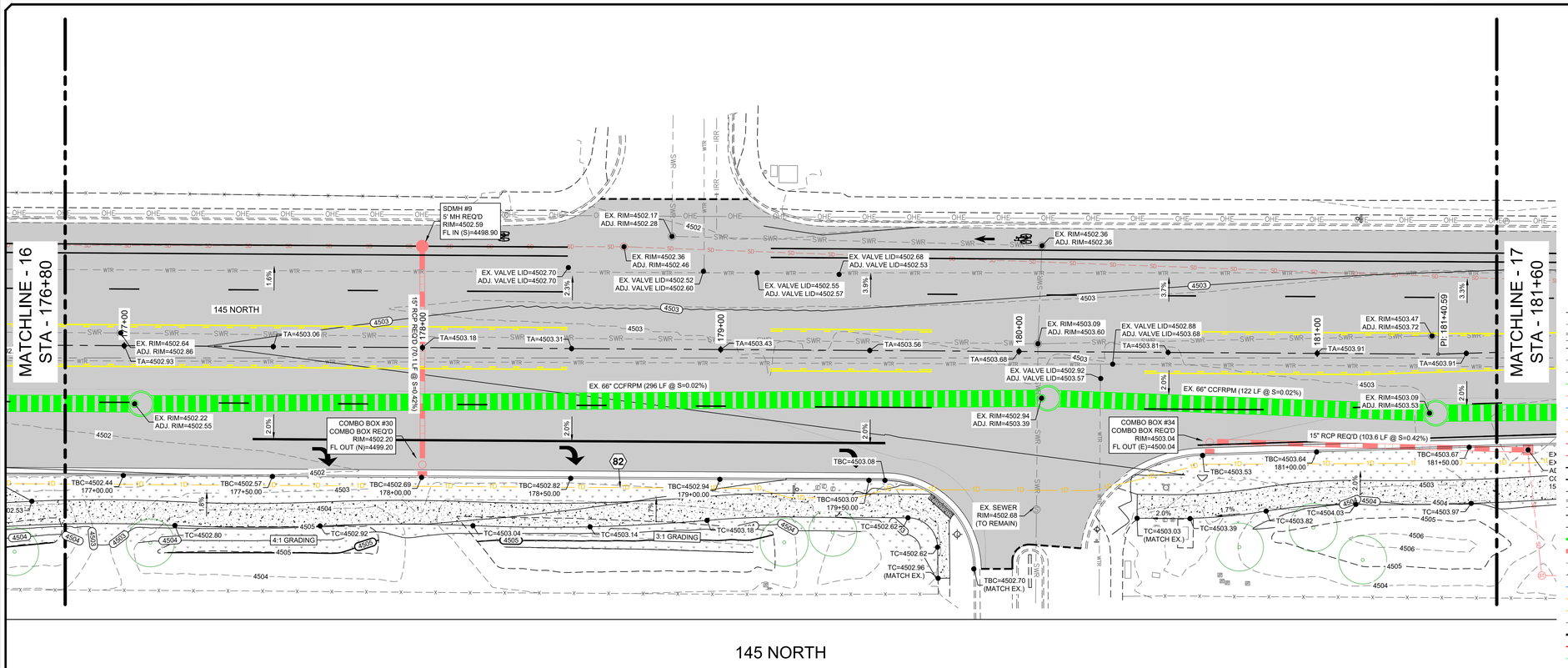
GRADING & DRAINAGE PLAN & PROFILE
167+20 ~ 171+35

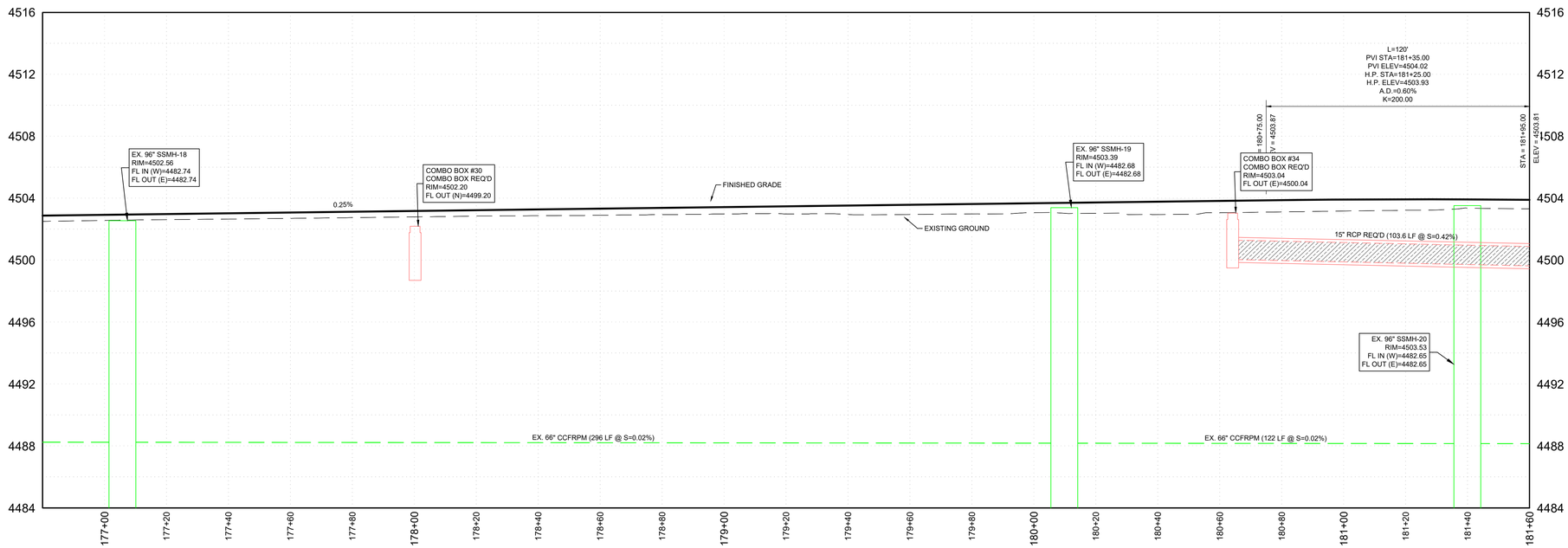
MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG\03-P&P — DRAWING FILE

SARATOGA SPRINGS
CITY

Blue Stakes of UTAH 811 Bluestakes.org

SHEET NO. C3.16





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SCALE IN FEET

LEGEND

- 4500 EXISTING 5' CONTOUR
- 4501 EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- SWR EXISTING SEWER LINE
- SD EXISTING STORM DRAIN LINE
- WTR EXISTING WATER LINE
- T EXISTING TELEPHONE LINE
- G EXISTING GAS LINE
- E EXISTING ELECTRICAL
- OHE EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- 4500 PROPOSED 5' CONTOUR
- 4501 PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- WTR PROPOSED WATER LINE
- 1D PROPOSED 1-D CONDUIT BANK
- FO PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

81 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH 811 Bluestakes.org

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE
167+20 ~ 171+35

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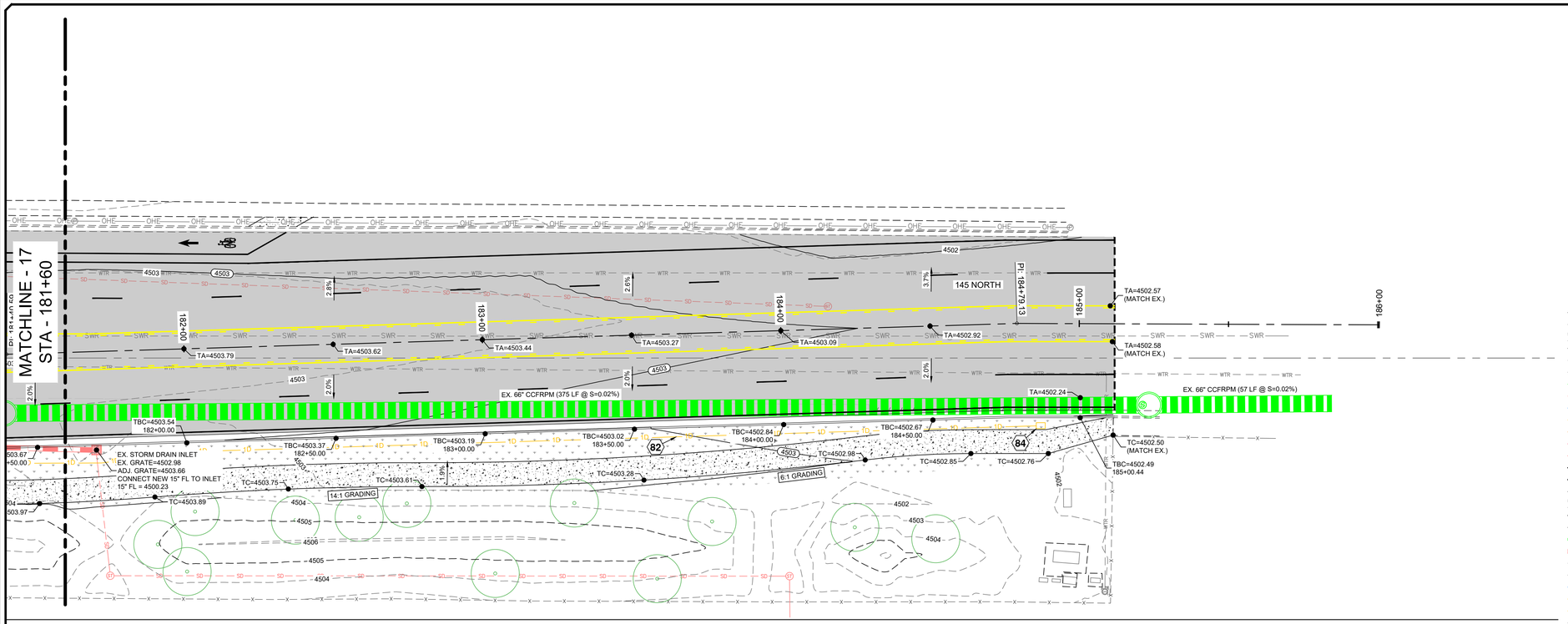
SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.17



LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
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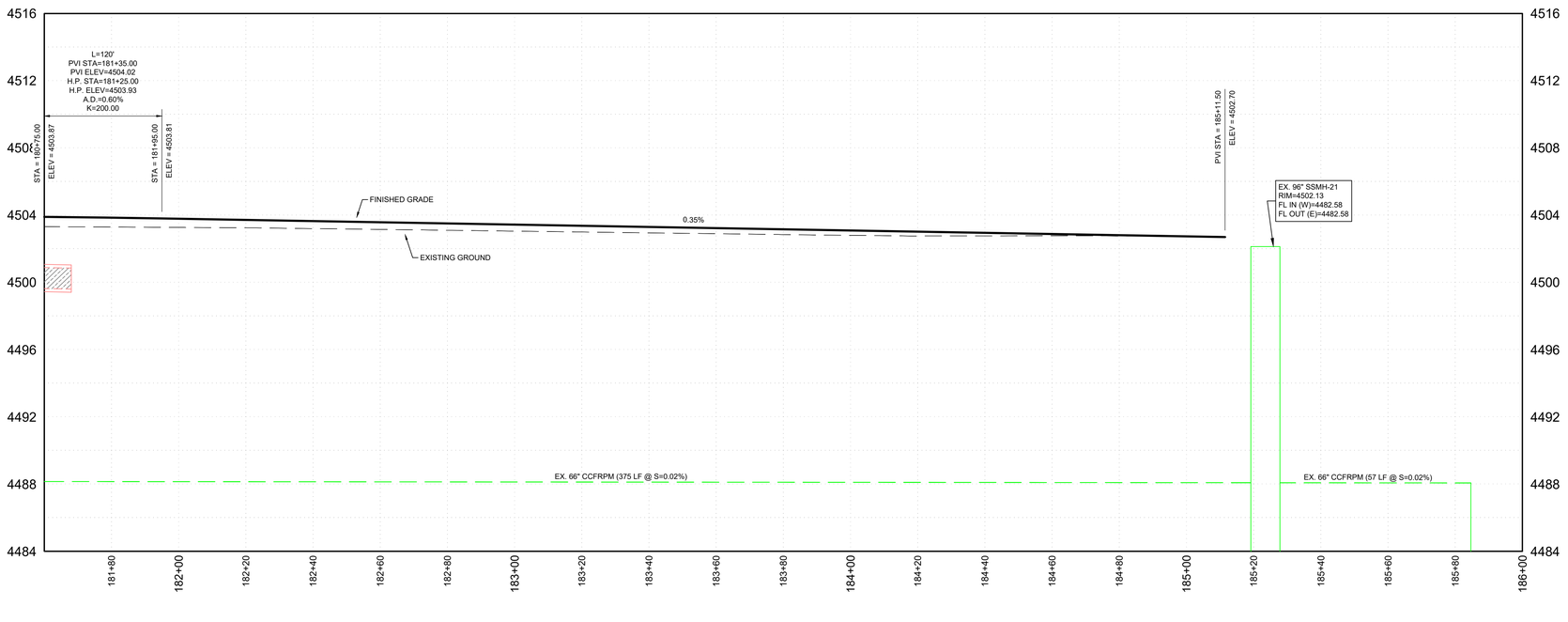

BID SET

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

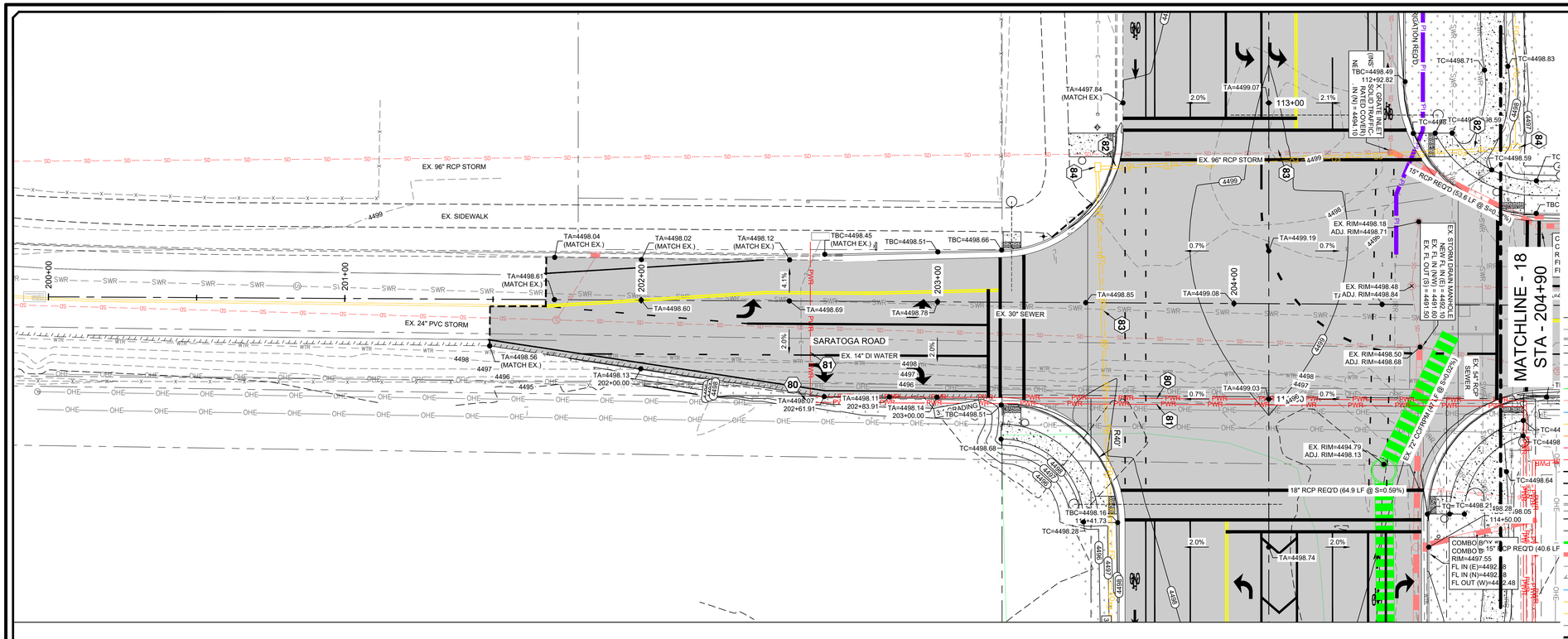
GRADING & DRAINAGE PLAN & PROFILE
167+20 ~ 171+35

MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG\03-P&P — DRAWING FILE

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.18



SCALE IN FEET

−20 0 20 40

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

81 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/MJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=20'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

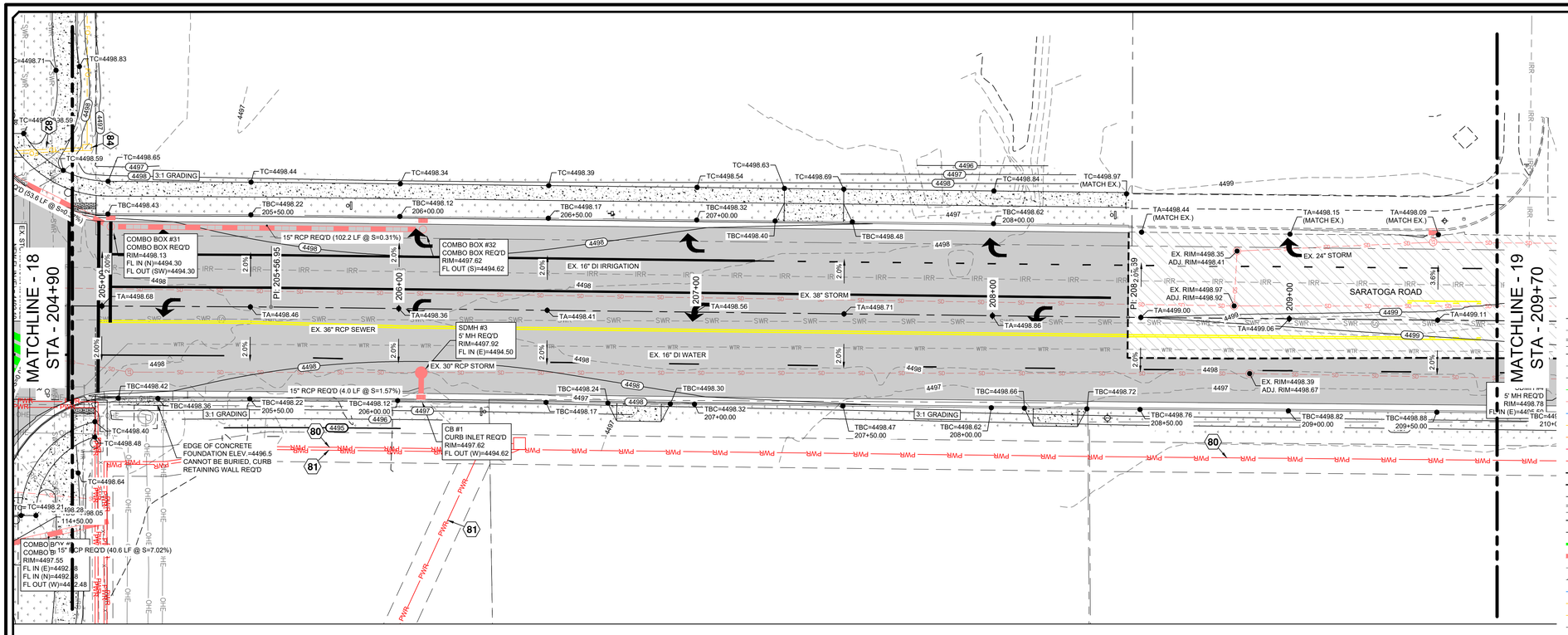
SARATOGA ROAD & 145 NORTH IMPROVEMENTS

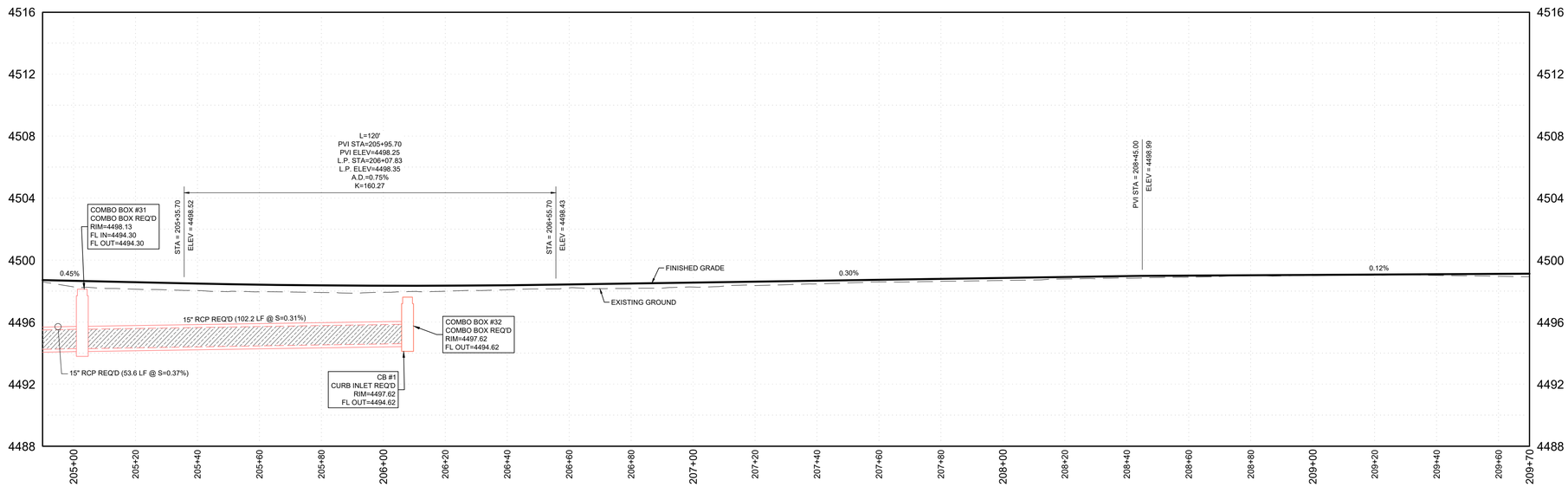
GRADING & DRAINAGE PLAN & PROFILE
200+00 ~ 204+90

MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG \03-P&P — DRAWING FILE

SARATOGA SPRINGS
CITY

SHEET NO. C3.19





SCALE IN FEET

−20 0 20 40

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
- PROPOSED EDGE OF ASPHALT
- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

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81 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)

82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
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DRAWN BY: RPB/MJP
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CMT TECHNICAL SERVICES
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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

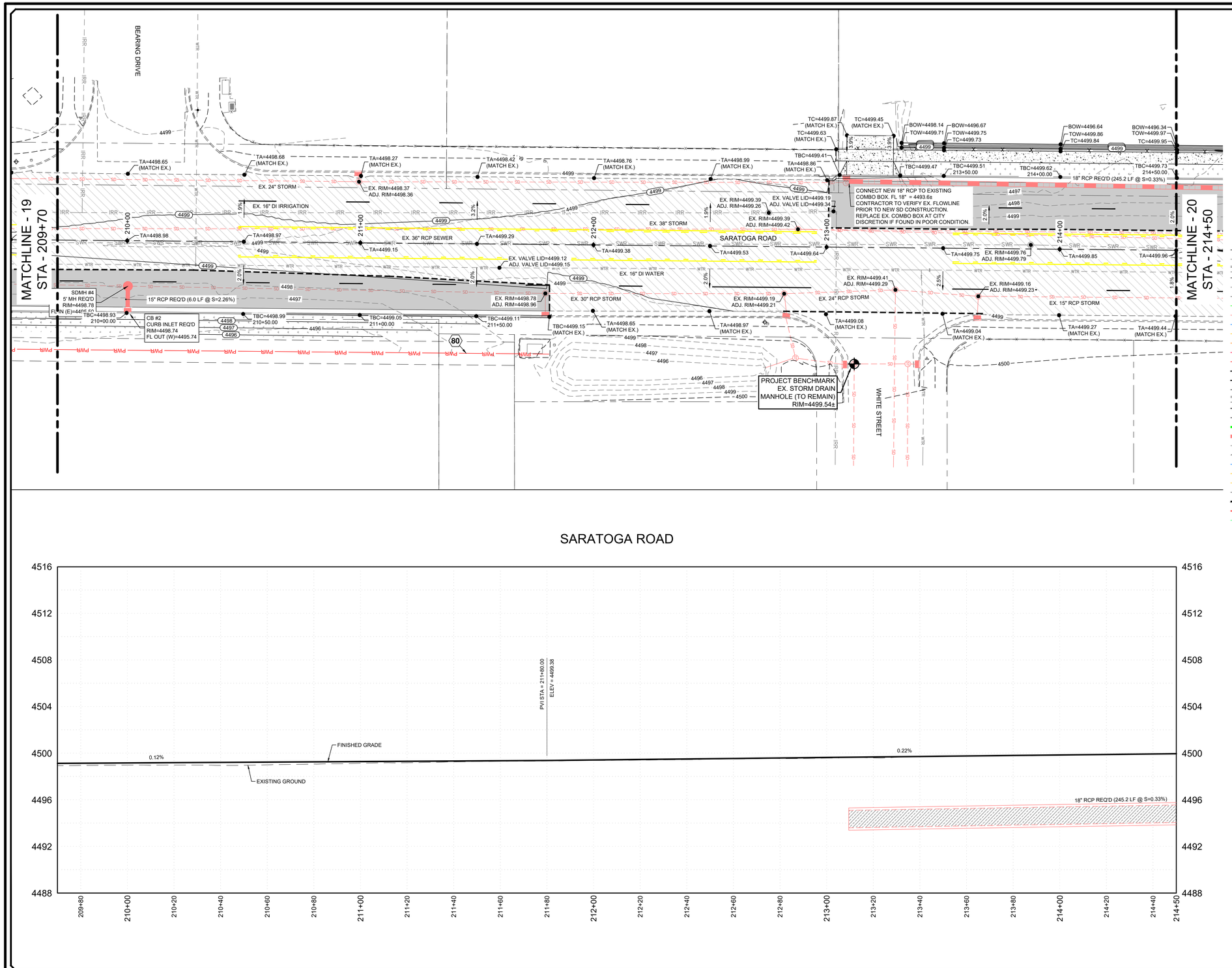
GRADING & DRAINAGE PLAN & PROFILE
204+90 ~ 209+70

DWG \03-P&P
DRAWING FILE
1005.2317
PROJECT NUMBER
MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS
CITY

PROFESSIONAL ENGINEER
No. 4959908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.20



SCALE IN FEET
−20 0 20 40

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
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- EXISTING ELECTRICAL
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- EXISTING BUILDING PAD
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- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
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KEYNOTE LEGEND

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82 1-D CONDUIT BANK REQ'D

83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

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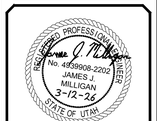
SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE
209+70 ~ 214+50

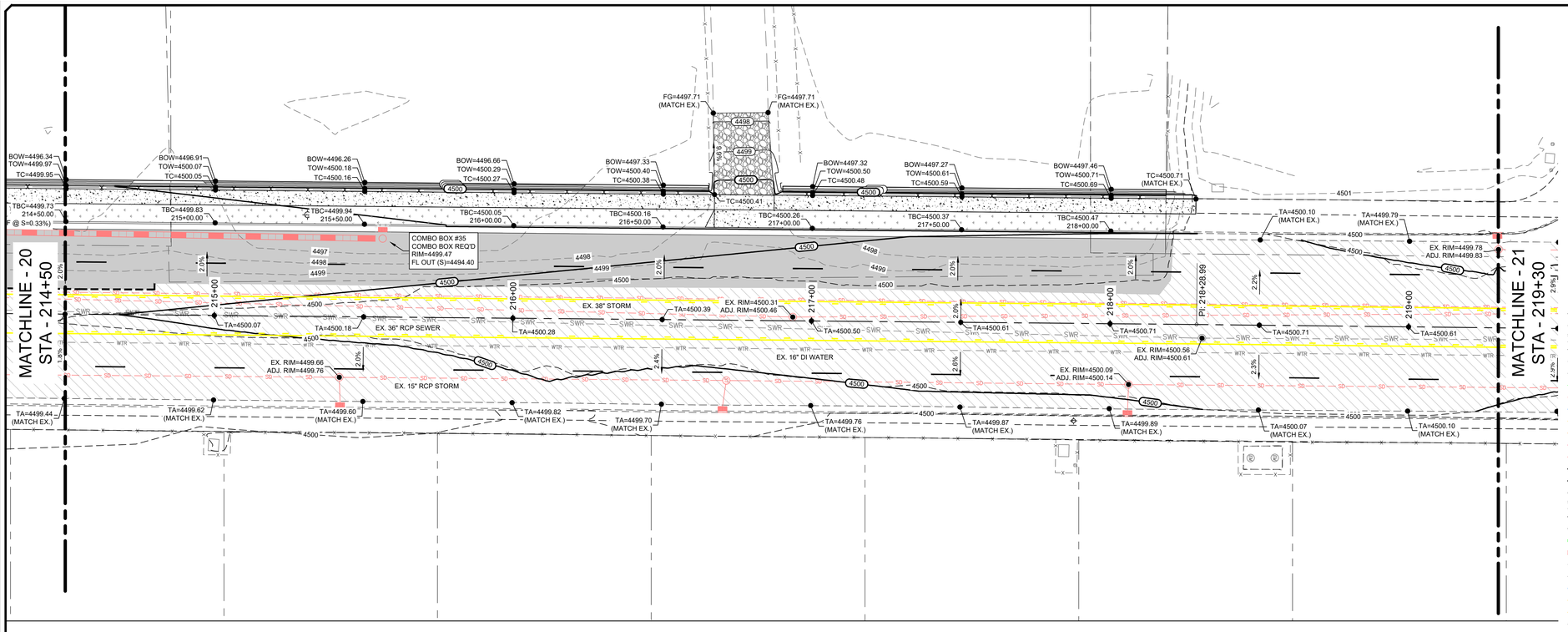
MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG \03-P&P — DRAWING FILE

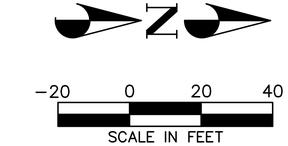
SARATOGA SPRINGS
CITY



Blue Stakes of UTAH811 Bluestakes.org

SHEET NO. C3.21





LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
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- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
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- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
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- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

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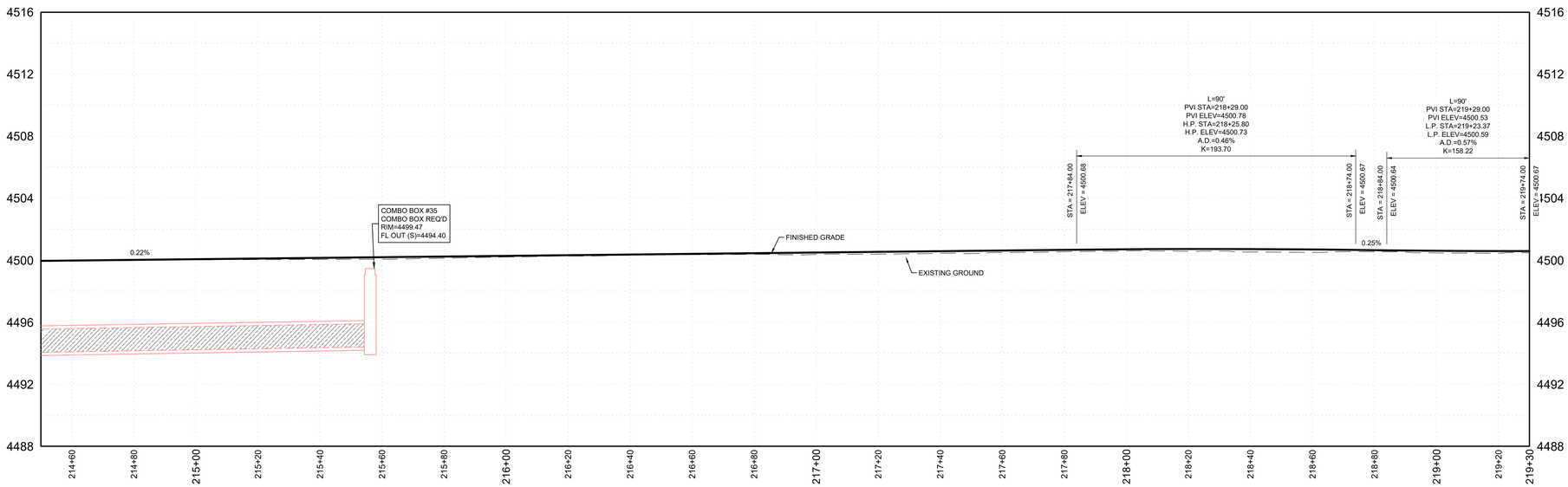
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

SARATOGA ROAD



BID SET

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CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
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MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
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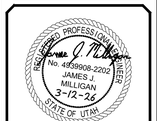
SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE
214+50 ~ 219+30

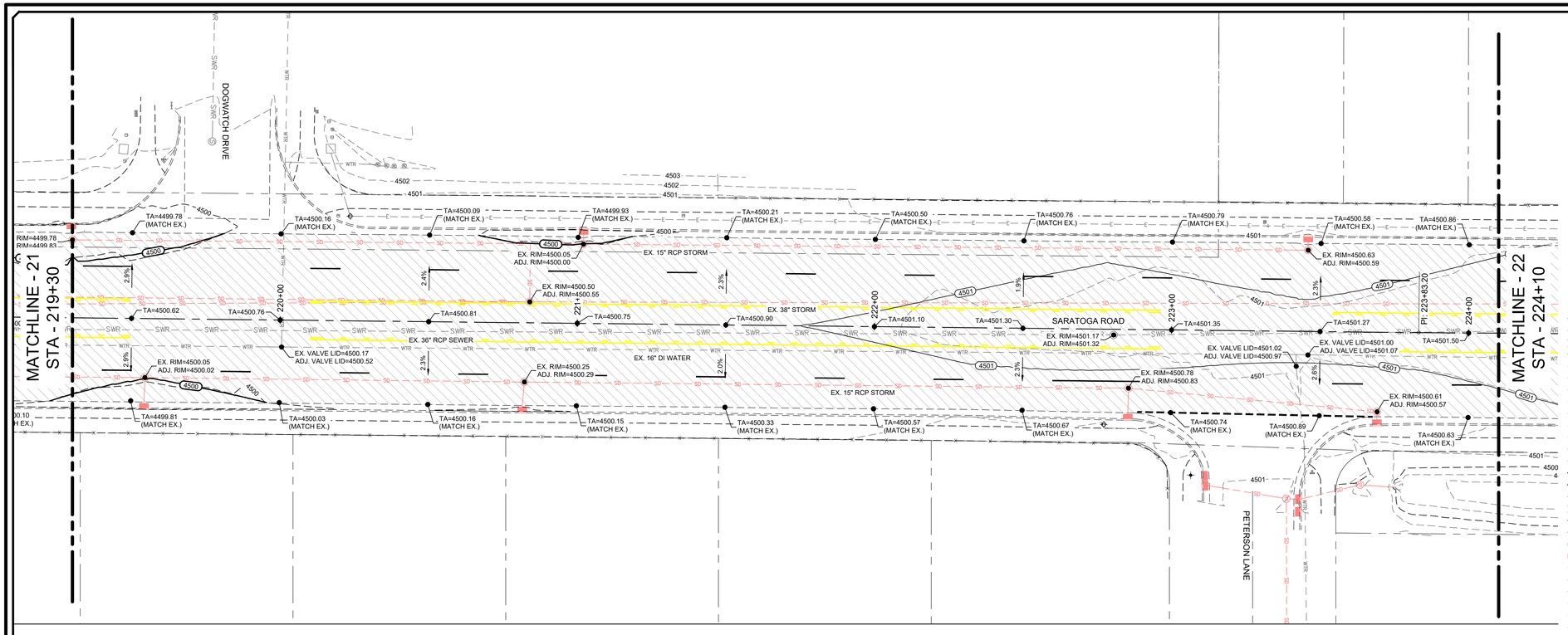
DWG \03-P&P
DRAWING FILE
1005.2317
PROJECT NUMBER
MARCH 12, 2026
LAST REVISED

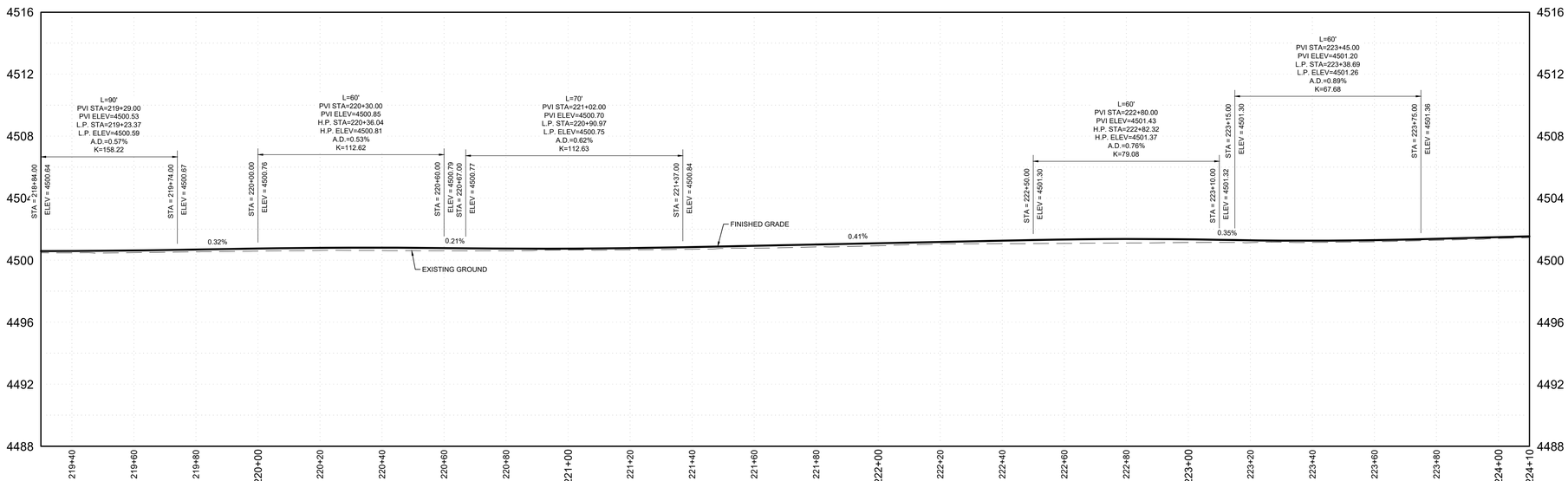
SARATOGA SPRINGS
CITY



SHEET NO. C3.22

Blue Stakes of UTAH811 Bluestakes.org





−20 0 20 40

SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING EDGE OF ASPHALT
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
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- EXISTING TELEPHONE LINE
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- EXISTING BUILDING PAD
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- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
82. 1-D CONDUIT BANK REQ'D
83. FIBER REQ'D (IN 1-D CONDUIT)
84. 1-D JUNCTION BOX REQ'D

BID SET

Blue Stakes of UTAH811 Bluestakes.org

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
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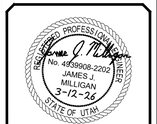
SARATOGA ROAD & 145 NORTH IMPROVEMENTS

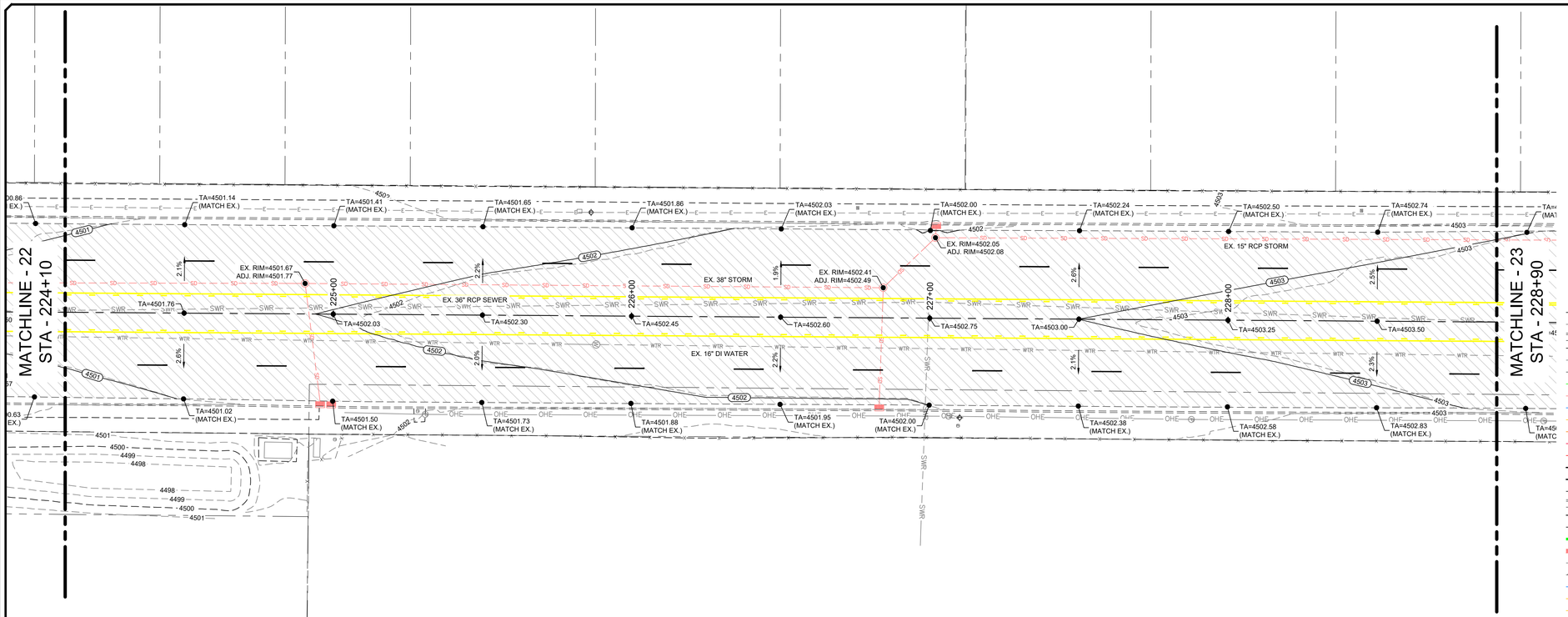
GRADING & DRAINAGE PLAN & PROFILE
219+30 ~ 224+10

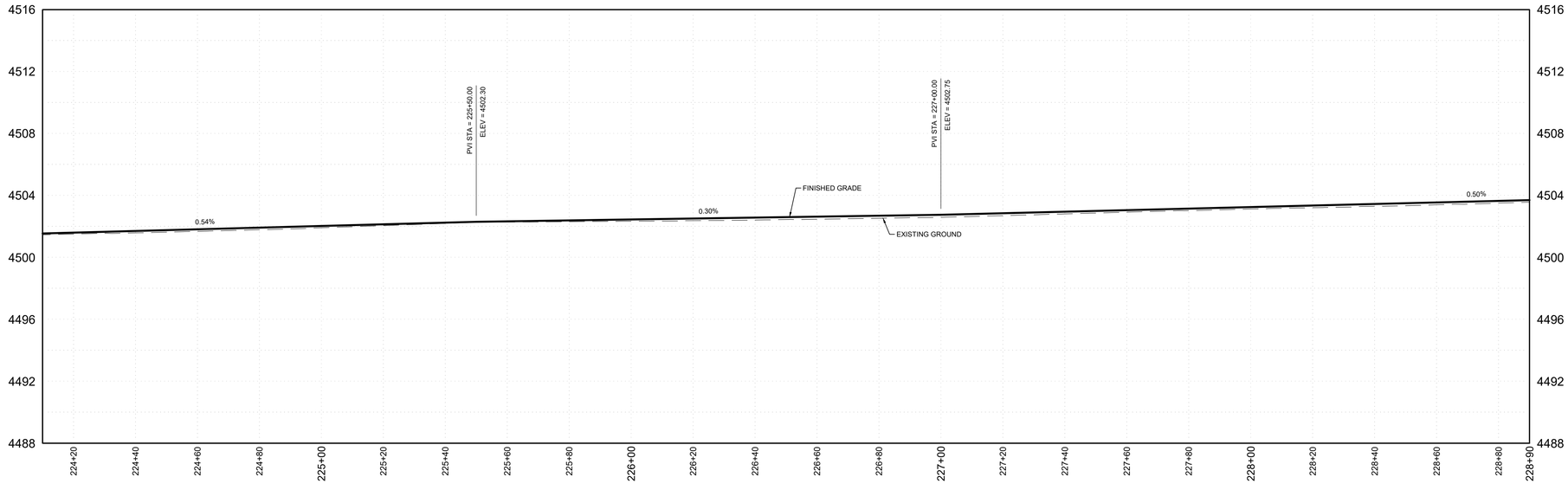
MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG\03-P&P — DRAWING FILE

SARATOGA SPRINGS
CITY



SHEET NO. C3.23





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SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING CURB & GUTTER
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- EXISTING FENCE
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BID SET

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

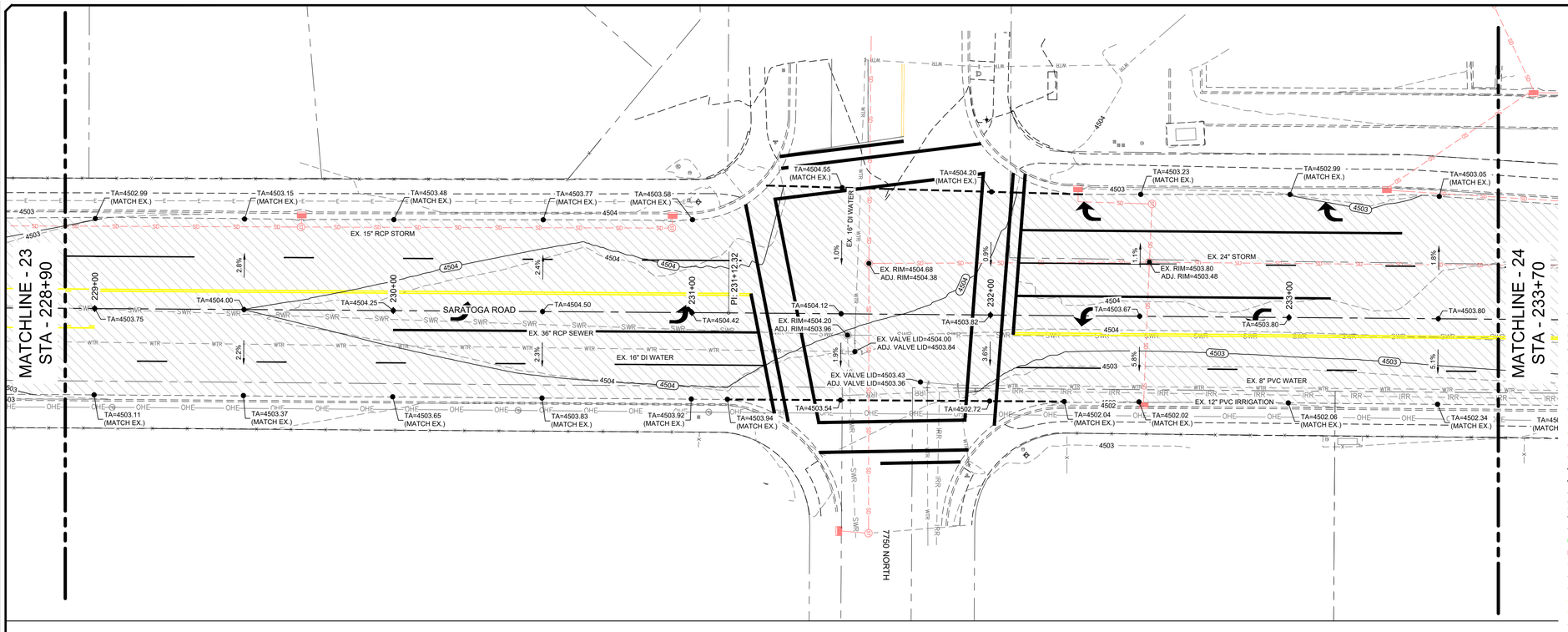
GRADING & DRAINAGE PLAN & PROFILE
224+10 ~ 228+90

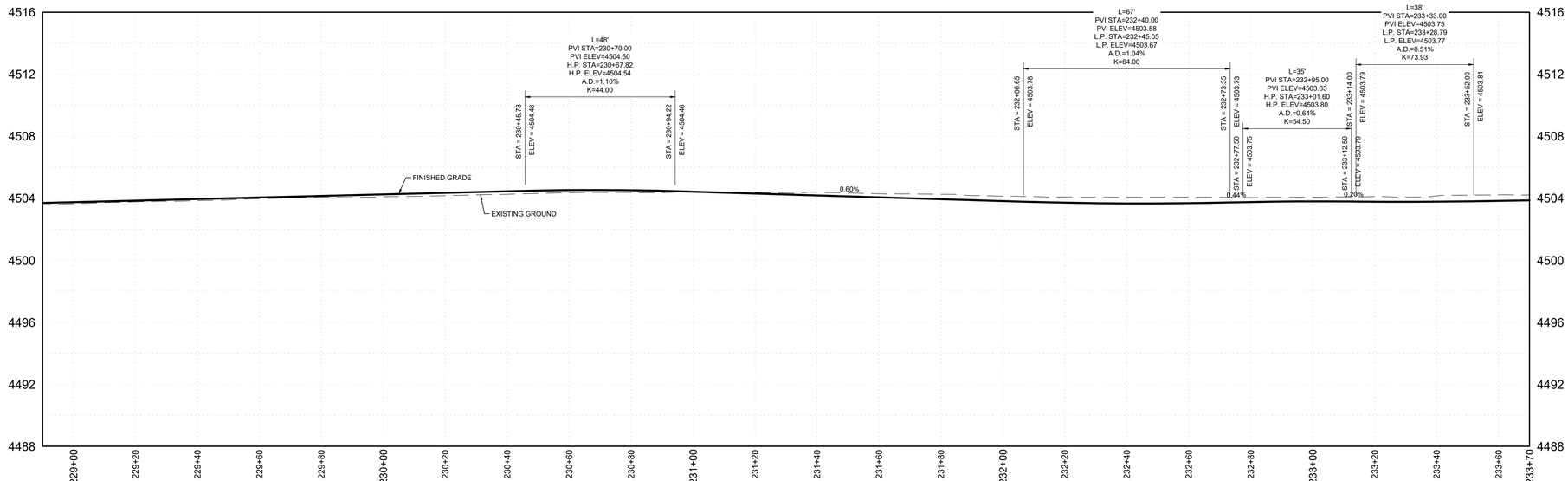
MARCH 12, 2026 — LAST REVISED
1005.2317 — PROJECT NUMBER
DWG \03-P&P — DRAWING FILE

SARATOGA SPRINGS
CITY

PROFESSIONAL ENGINEER
No. 4939908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.24





−20 0 20 40

SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
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83 FIBER REQ'D (IN 1-D CONDUIT)

84 1-D JUNCTION BOX REQ'D

BID SET

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

GRADING & DRAINAGE PLAN & PROFILE

228+90 ~ 233+70

MARCH 12, 2026 — LAST REVISED

DWG\03-P&P — DRAWING FILE

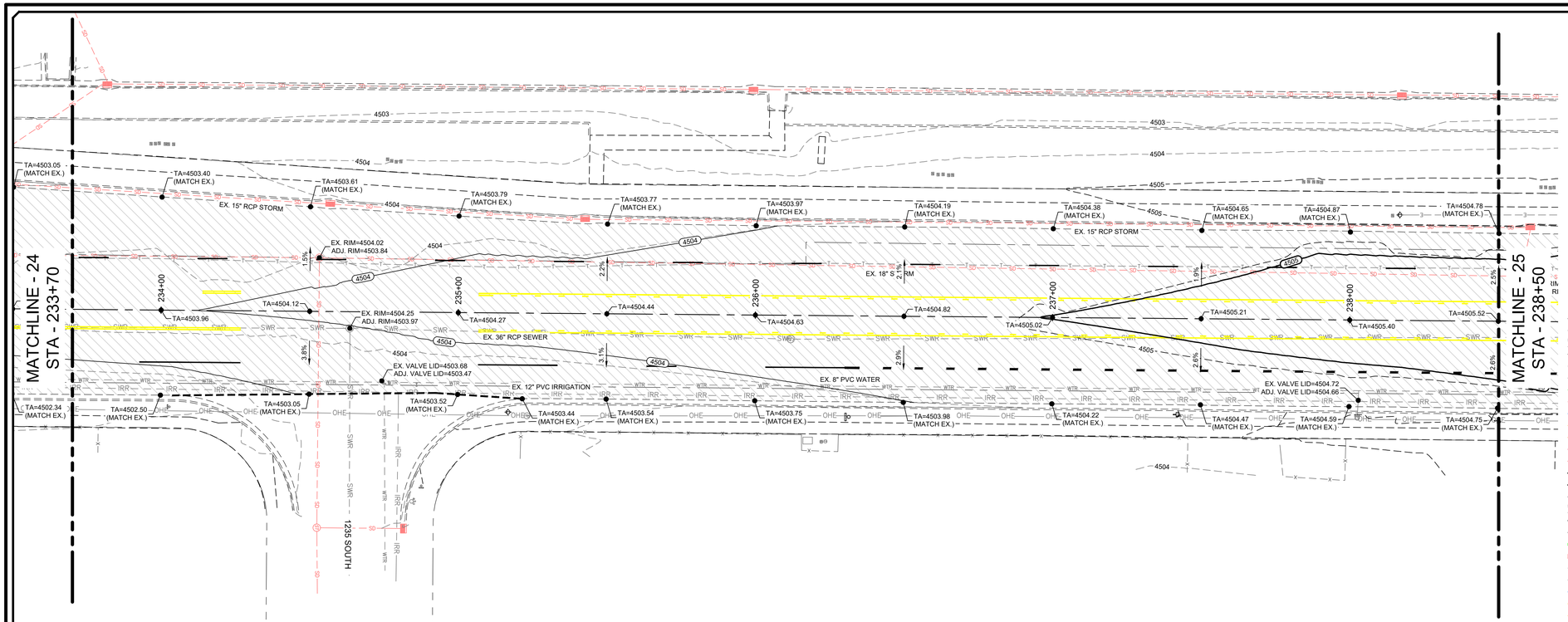
1005.2317 — PROJECT NUMBER

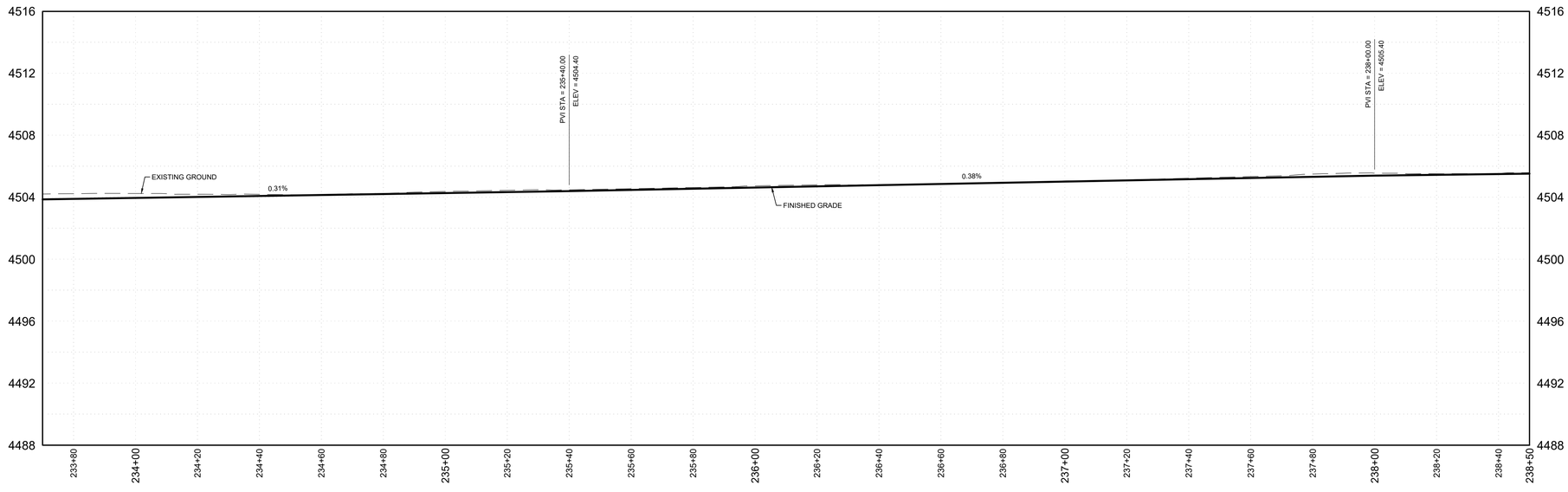
SARATOGA SPRINGS
CITY

LICENSED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

Blue Stakes of UTAH811 Bluestakes.org

SHEET NO. C3.25





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SCALE IN FEET

LEGEND

- EXISTING 5' CONTOUR
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- EXISTING SIDEWALK
- EXISTING FENCE
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- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL
- EXISTING OVERHEAD ELECTRIC
- EXISTING BUILDING PAD
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED CURB & GUTTER
- PROPOSED CENTER LINE
- PROPOSED SIDEWALK
- PROPOSED SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED FENCE
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- PROPOSED WATER LINE
- PROPOSED 1-D CONDUIT BANK
- PROPOSED FIBER (IN 1-D)
- RIGHT OF WAY
- PROPOSED SAWCUT
- ADDITIVE ALTERNATE DIVISION
- NON-JURISDICTIONAL WETLAND

KEYNOTE LEGEND

80. 6" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
81. 3" POWER CONDUIT REQ'D (SEE PACIFICORP/RMP PLAN, DETAIL-16 ON SHEET C4.3)
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84. 1-D JUNCTION BOX REQ'D

BID SET

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SCALE: 1"=20'

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

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233+70 ~ 238+50

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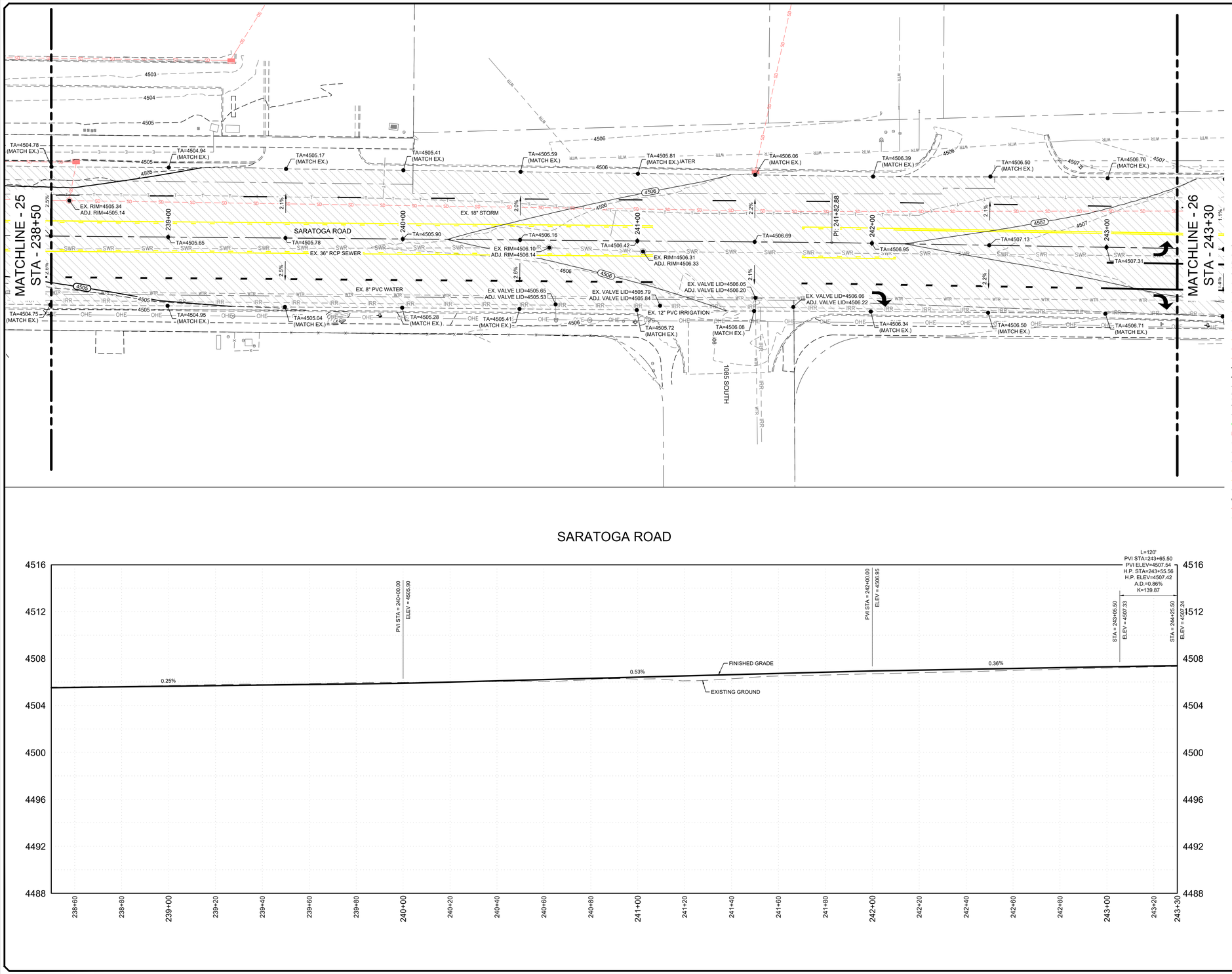
DWG \03-P&P\ DRAWING FILE

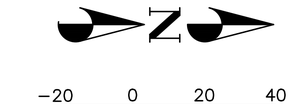
SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4909908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.26

Blue Stakes of UTAH 811
Bluestakes.org





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238+50 ~ 243+30

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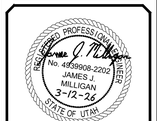
CITY



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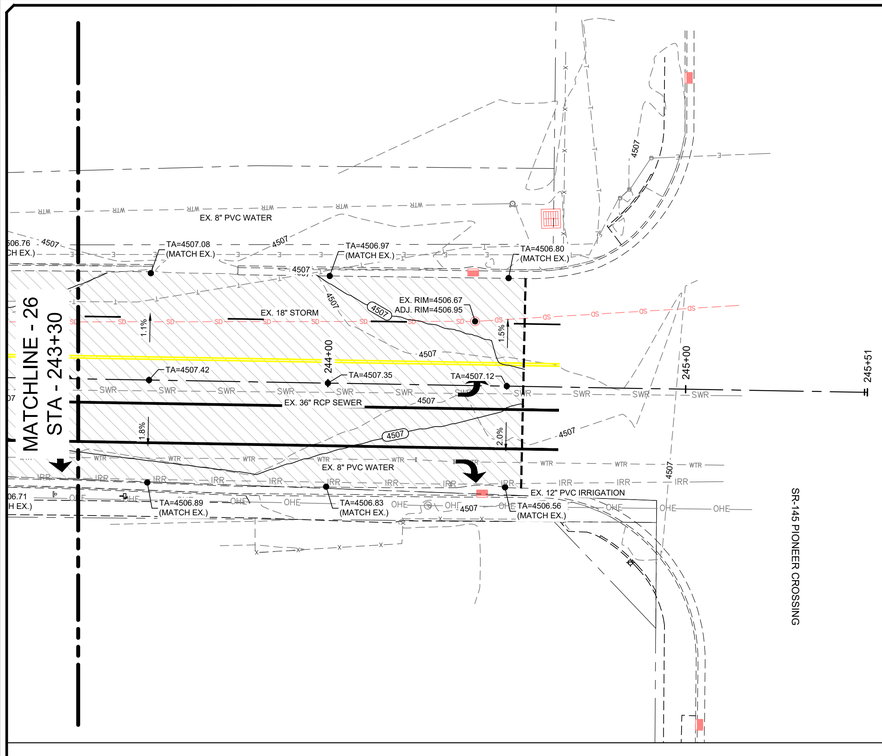

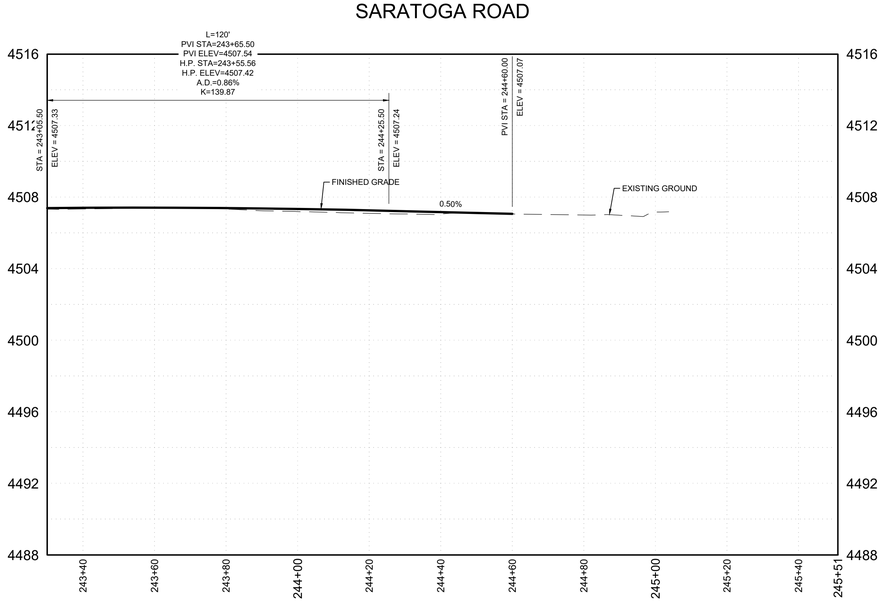

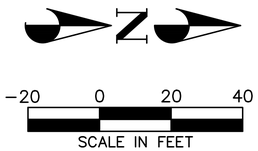

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243+30 ~ 245+51

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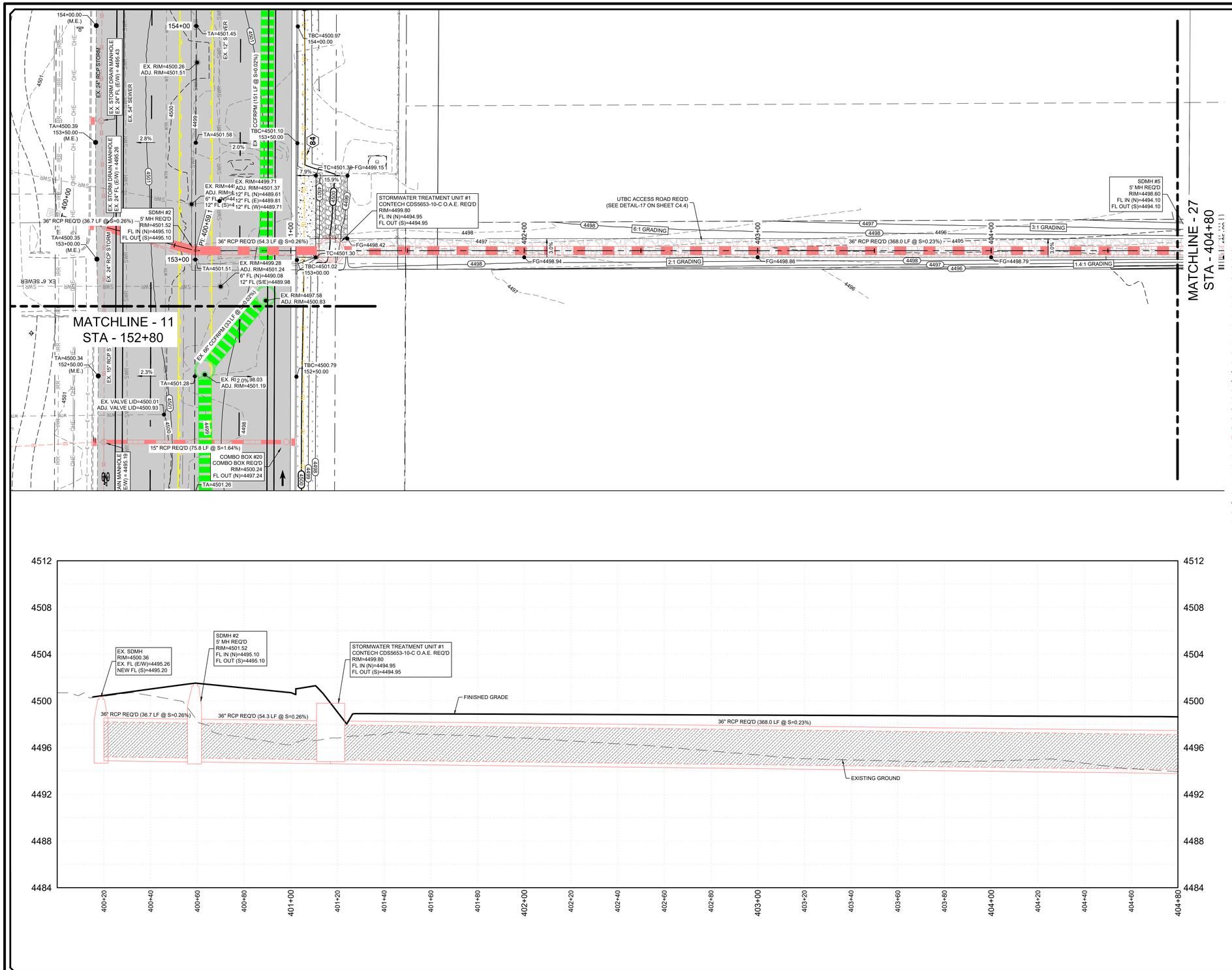
SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J. MILIGAN
3-12-26
STATE OF UTAH

Blue Stakes of UTAH811 Bluestakes.org

SHEET NO. C3.28



SCALE IN FEET
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400+00 ~ 404+80

DWG \03-P&P
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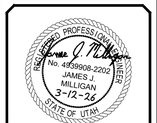

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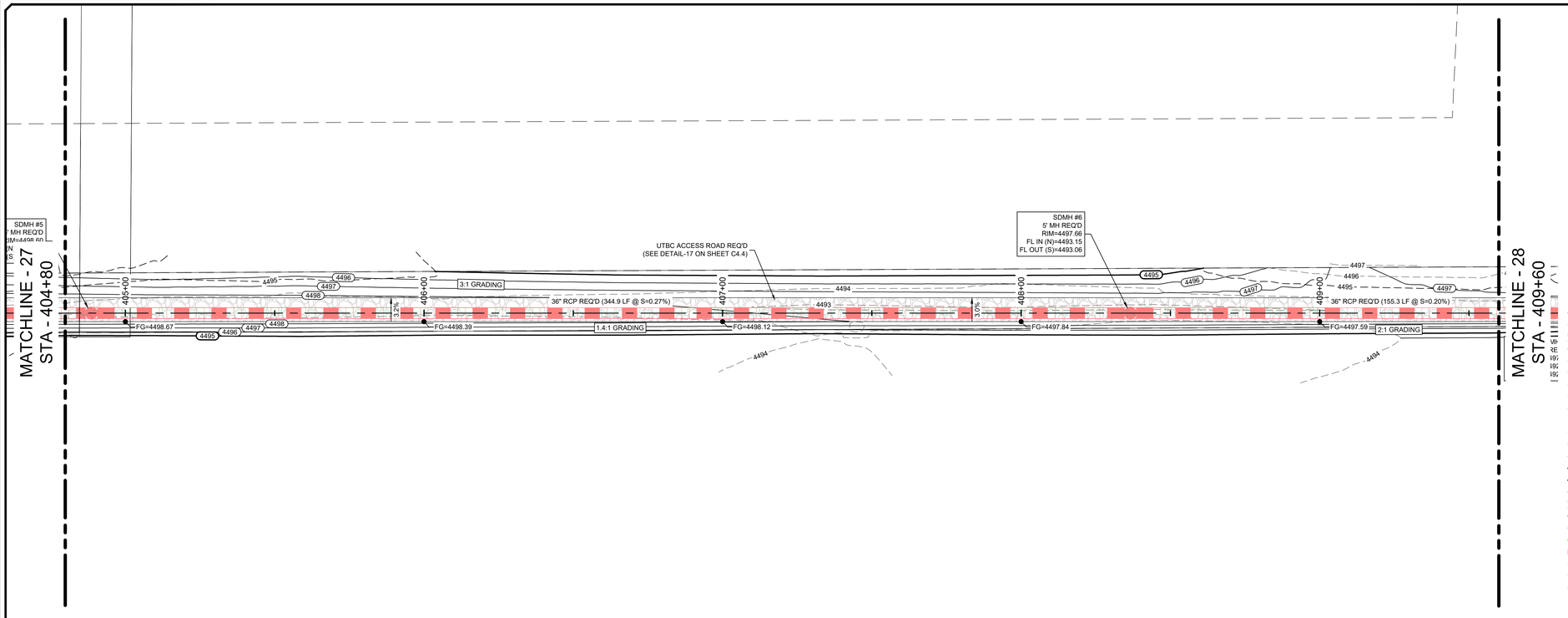

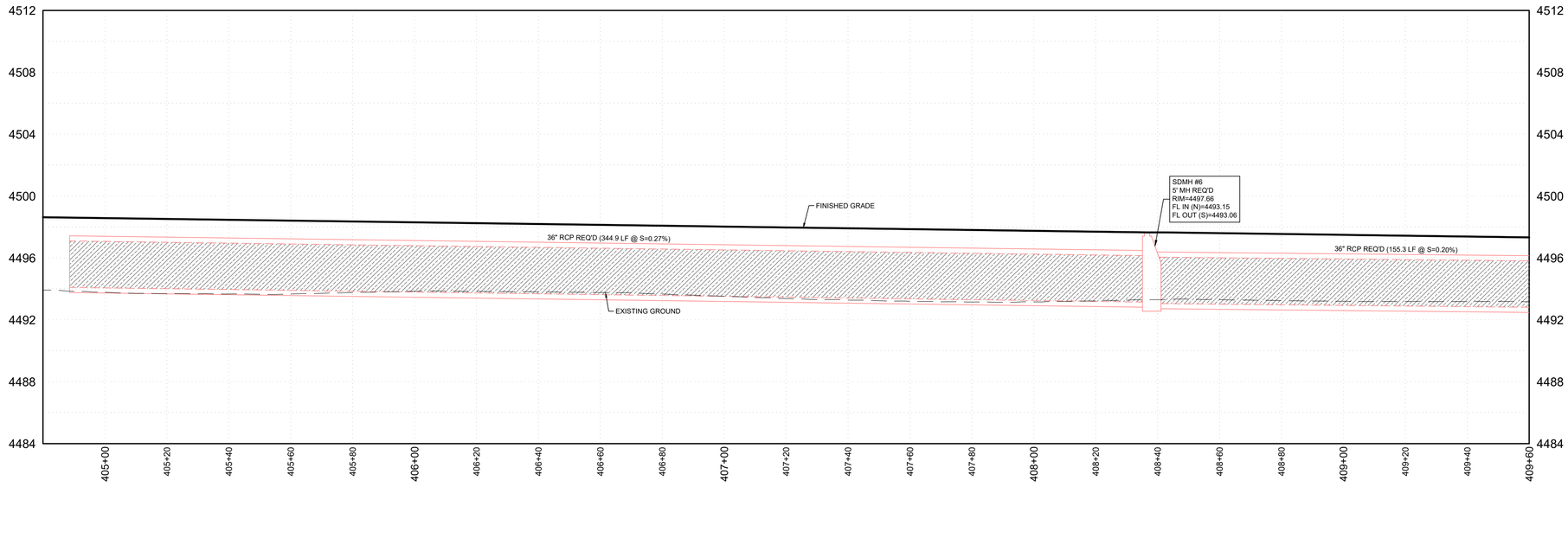

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SARATOGA ROAD & 145 NORTH IMPROVEMENTS

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404+80 ~ 409+60

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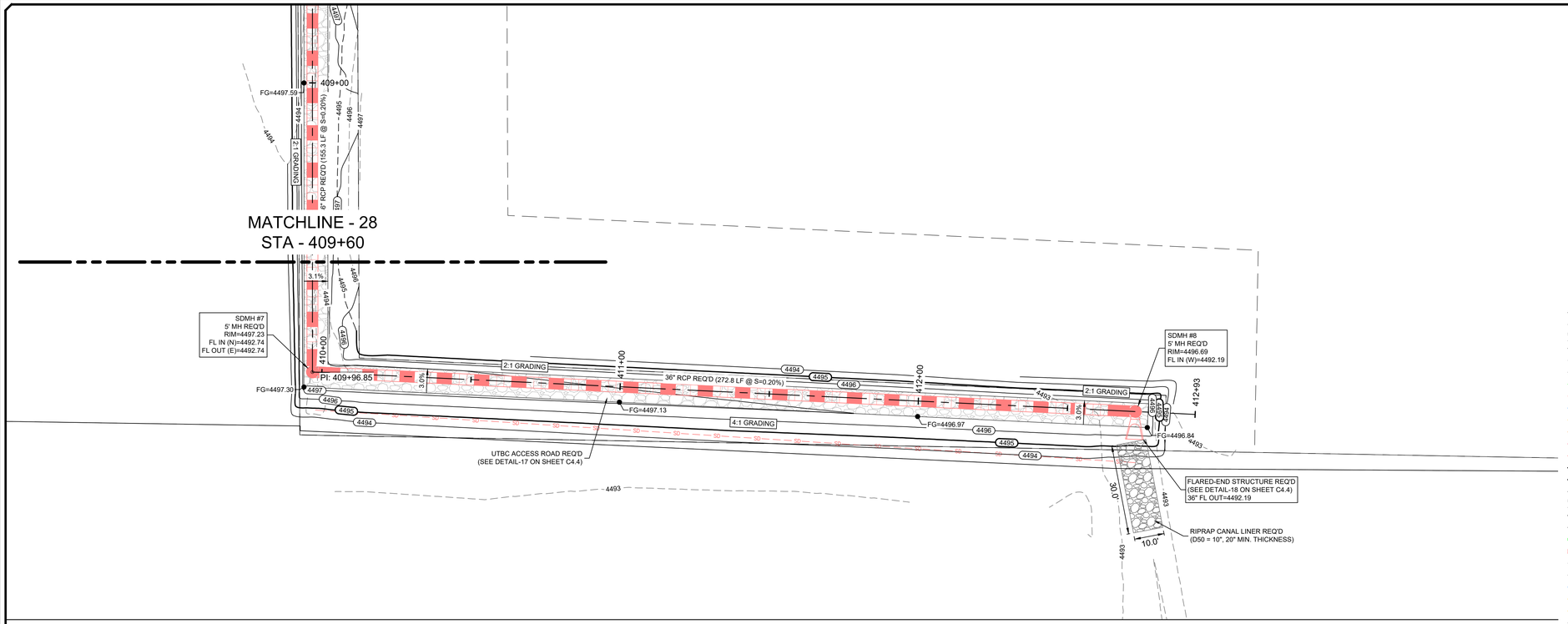
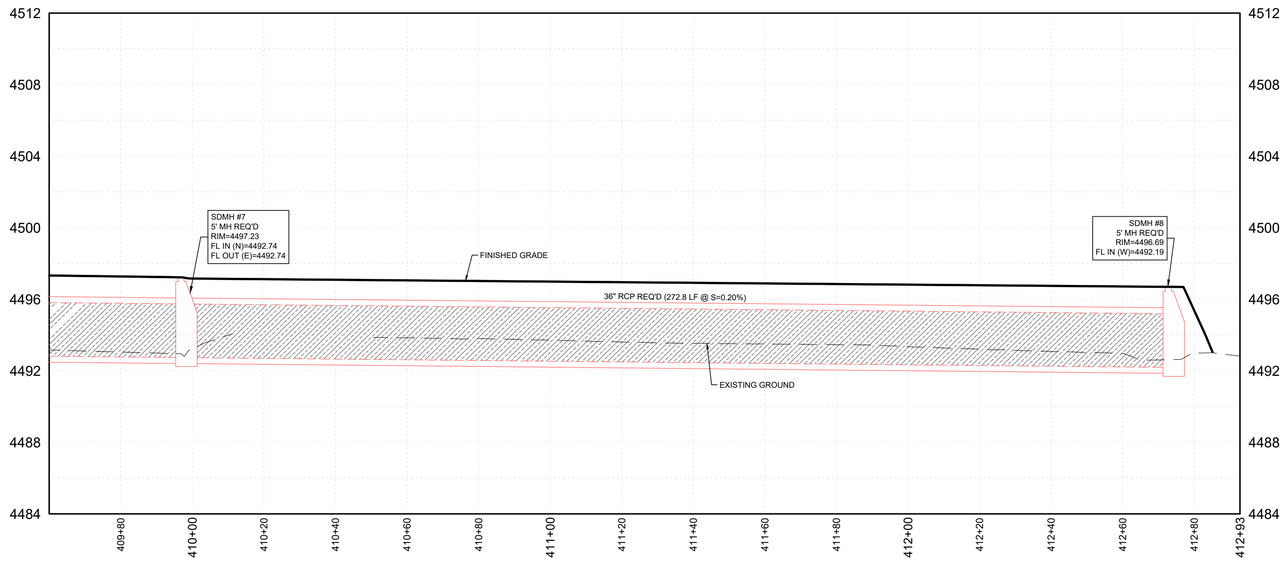
REGISTERED PROFESSIONAL ENGINEER
No. 4909908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C3.30





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SCALE IN FEET

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409+60 ~ 412+93

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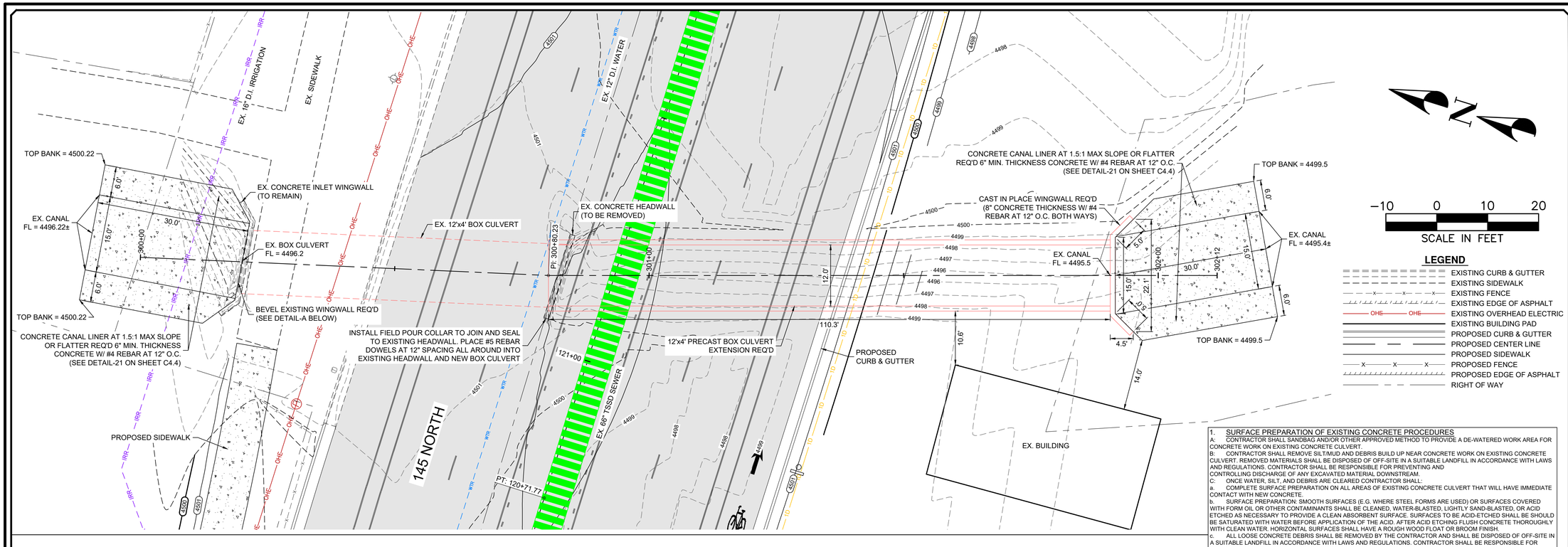
SHEET NO. C3.31



1. SURFACE PREPARATION OF EXISTING CONCRETE PROCEDURES

A: CONTRACTOR SHALL SANDBAG AND/OR OTHER APPROVED METHOD TO PROVIDE A DE-WATERED WORK AREA FOR CONCRETE WORK ON EXISTING CONCRETE CULVERT.

B: CONTRACTOR SHALL REMOVE SILT/MUD AND DEBRIS BUILD UP NEAR CONCRETE WORK ON EXISTING CONCRETE CULVERT. REMOVED MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A SUITABLE LANDFILL IN ACCORDANCE WITH LAWS AND REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING DISCHARGE OF ANY EXCAVATED MATERIAL DOWNSTREAM.

C: ONCE WATER, SILT, AND DEBRIS ARE CLEARED CONTRACTOR SHALL:

a. COMPLETE SURFACE PREPARATION ON ALL AREAS OF EXISTING CONCRETE CULVERT THAT WILL HAVE IMMEDIATE CONTACT WITH NEW CONCRETE.

b. SURFACE PREPARATION: SMOOTH SURFACES (E.G. WHERE STEEL FORMS ARE USED) OR SURFACES COVERED WITH FORM OIL OR OTHER CONTAMINANTS SHALL BE CLEANED, WATER-BLASTED, LIGHTLY SAND-BLASTED, OR ACID ETCHED AS NECESSARY TO PROVIDE A CLEAN ABSORBENT SURFACE. SURFACES TO BE ACID-ETCHED SHALL BE SHOULD BE SATURATED WITH WATER BEFORE APPLICATION OF THE ACID. AFTER ACID ETCHING FLUSH CONCRETE THOROUGHLY WITH CLEAN WATER. HORIZONTAL SURFACES SHALL HAVE A ROUGH WOOD FLOAT OR BROOM FINISH.

c. ALL LOOSE CONCRETE DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE IN A SUITABLE LANDFILL IN ACCORDANCE WITH LAWS AND REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING DISCHARGE OF ANY CONCRETE MATERIAL DOWNSTREAM.

d. ENGINEER TO COMPLETE SITE OBSERVATIONS FOLLOWING SURFACE PREPARATION EFFORTS.

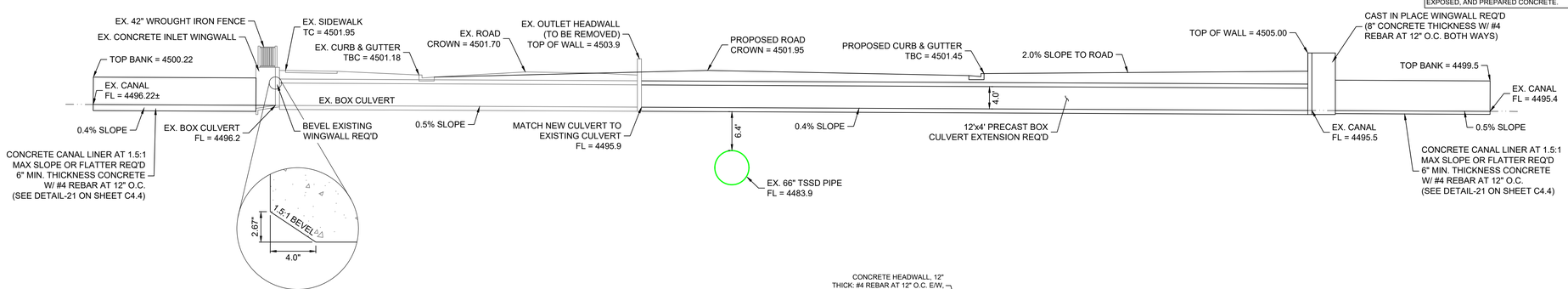
2. SURFACE TREATMENT AT EXISTING CULVERT ENDS INCLUDING BEVEL CUT(S)

A: UPON COMPLETION OF SURFACE PREPARATION AND BEVEL CUTS APPLY GENERAL SURFACE TREATMENT APPLICATION AS FOLLOWS:

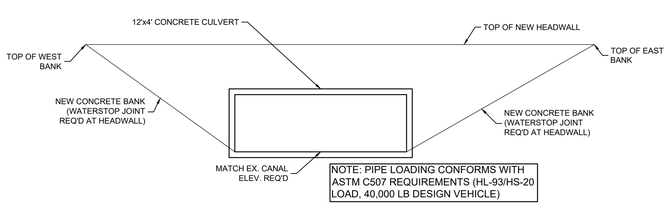
1. APPLY NANO-LITHIUM TECHNOLOGY SPRAY; LITHIUM BASED GHOSTSHIELD BY SILOXA-TEK OR PENTRASIL 244+ BY CONVERGENT TECHNOLOGIES, OR APPROVED EQUAL. APPLY OVER ALL ACCESSIBLE, EXPOSED, AND PREPARED CONCRETE.

NOTE: SUBMITTAL REQUIRED ON 12'x4' BOX CULVERT, STRUCTURALLY RATED TO HS20 LOADING.

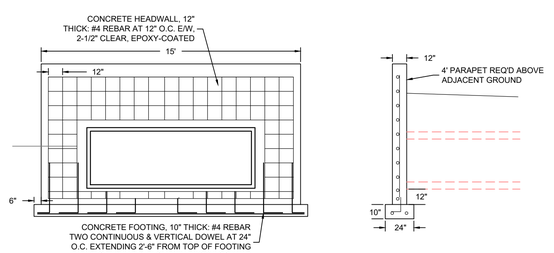
NOTE: CONTRACTOR RESPONSIBLE FOR ACCOMMODATING CANAL FLOWS DURING CULVERT CONSTRUCTION.



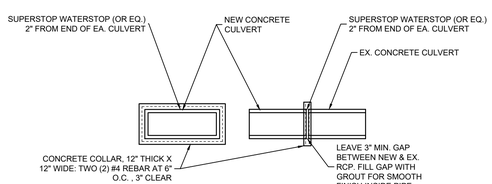
DETAIL-A
WINGWALL BEVEL IMPROVEMENTS



SECTION C1 - CULVERT/HEADWALL
(NOT TO SCALE)



CULVERT/HEADWALL REINFORCEMENT DETAIL
(NOT TO SCALE)



CULVERT CONNECTION DETAIL
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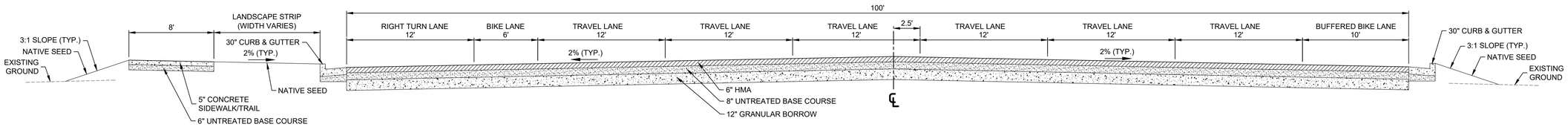
SARATOGA ROAD & 145 NORTH IMPROVEMENTS
CULVERT EXTENSION PLAN
300+00 ~ 301+84
DWG 03-2CULVERT
DRAWING FILE
1005.2317
PROJECT NUMBER
MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS
CITY

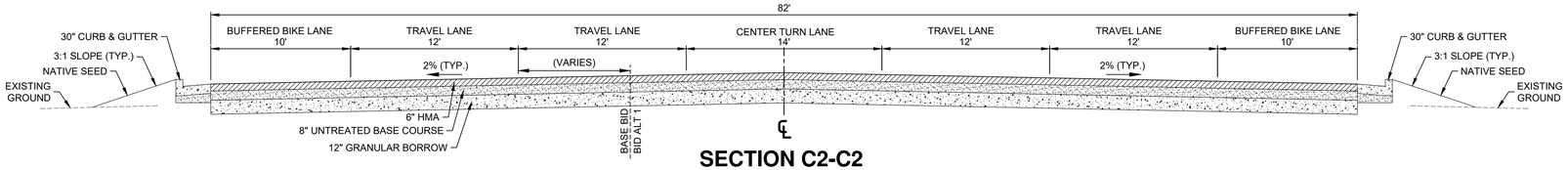
REGISTERED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. **C3.32**



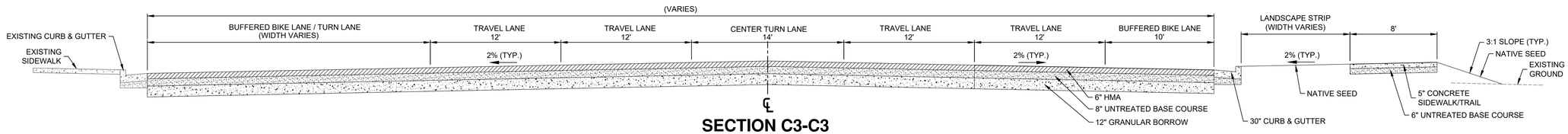
SECTION C1-C1

145 NORTH CROSS-SECTION
(WITH DUAL LEFTS, RIGHT TURN LANE, AND TRAIL)



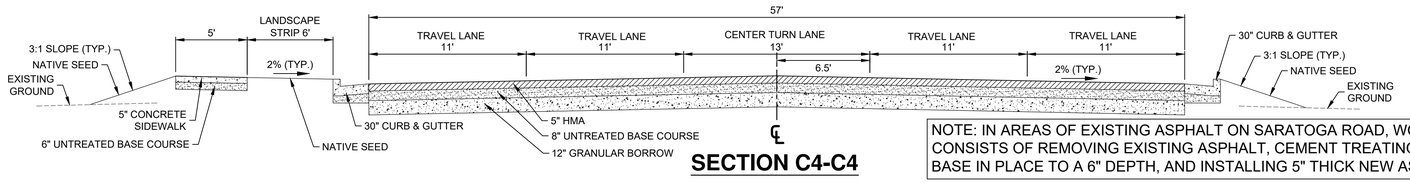
SECTION C2-C2

145 NORTH TYPICAL CROSS-SECTION



SECTION C3-C3

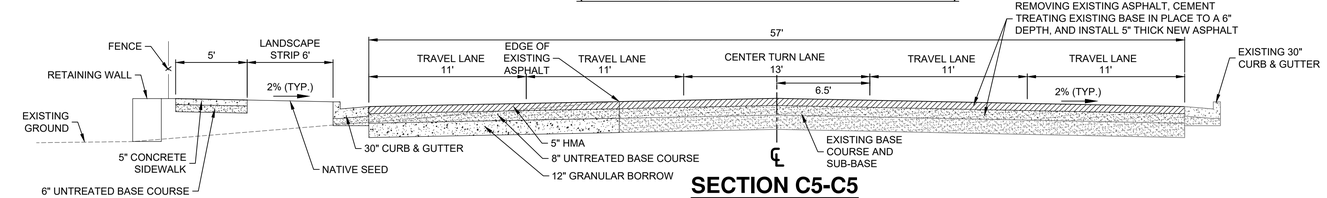
145 NORTH CROSS-SECTION



SECTION C4-C4

SARATOGA ROAD CROSS-SECTION
(TYPICAL, IN AREAS OF FULL-REBUILD)

NOTE: IN AREAS OF EXISTING ASPHALT ON SARATOGA ROAD, WORK CONSISTS OF REMOVING EXISTING ASPHALT, CEMENT TREATING EXISTING BASE IN PLACE TO A 6" DEPTH, AND INSTALLING 5" THICK NEW ASPHALT.



SECTION C5-C5

SARATOGA ROAD CROSS-SECTION
(TYPICAL, AREA OF WIDENING TO WEST)

NOTE: ALL CONSTRUCTION SHALL ADHERE TO THE RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THE PROJECT GEOTECHNICAL STUDY (CMT PROJECT NO. 21527, DATED SEPTEMBER 18, 2024) AND THE PROJECT PAVEMENT EVALUATION (CMT, DATED SEPTEMBER 6, 2024). THE CONTRACTOR SHALL FURNISH THEMSELVES COPIES OF THESE DOCUMENTS (AS PART OF THE PROJECT MANUAL). IF UNFORESEEN CONDITIONS ARISE, CONTRACTOR SHALL CONTACT ENGINEER FOR CLARIFICATION.

TYPICAL CROSS SECTIONS

BID SET

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=5'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

TYPICAL SECTIONS & DETAILS

DWG \04-DETAIL
DRAWING FILE

1005.231
PROJECT NUMBER

MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS
CITY

REGISTERED PROFESSIONAL ENGINEER
No. 4656908-2202
JAMES J MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C4.0

EROSION CONTROL NOTES

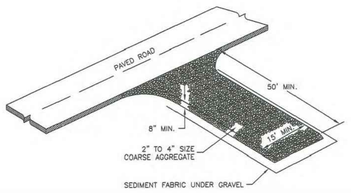
1. THIS PLAN HAS BEEN PREPARED AS A GUIDE FOR THE INSTALLATION OF STORM WATER POLLUTION PREVENTION SYSTEMS. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH ALL U.P.D.E.S. PERMIT REQUIREMENTS AND TO ADJUST PLAN AS NECESSARY TO MEET SITE SURFACE WATER PROTECTION OBJECTIVES.
2. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ONSITE EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL FACILITIES SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DRAINAGE AND EROSION CONTROL FACILITIES AS REQUIRED. STREETS SHALL BE KEPT CLEAN OF DEBRIS FROM SITE TRAFFIC. IN ADDITION TO REGULAR CONTRACTOR INSPECTIONS, STREETS SHALL BE SWEPT UPON CITY AND OWNER REQUEST.
4. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY, AND REMOVED AT COMPLETION OF PROJECT.
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE CITY OR COUNTY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
6. CONTRACTOR SHALL BE RESPONSIBLE OF ALL SWPPP SYSTEMS. CITY INSPECTOR MUST APPROVE THE REMOVAL OF ALL SWPPP DEVICES.
7. CONTRACTOR MAY REMOVE TEMPORARY INLET PROTECTION DEVICES AND SILT FENCING AFTER PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
8. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION (70% MIN.). EROSION CONTROL STRUCTURES IN PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE, AND LANDSCAPE DRAINING ON TO PAVEMENT IS COMPLETE.
9. THE SWPPP BOOK AND UPDES PERMIT WILL BE PROVIDED BY THE CONTRACTOR PRIOR TO WORK.

DETAIL-A
EROSION CONTROL NOTES

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.

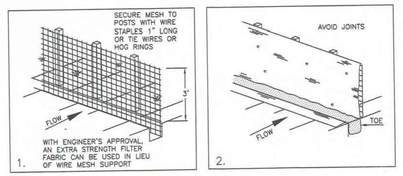
Stabilized roadway entrance

1. **GENERAL**
   A. Description. A temporary stabilized pad of gravel for controlling equipment and construction vehicle access to the site.
   B. Application. At any site where vehicles and equipment enter the public right of way.
2. **PRODUCT** (Not used)
3 **EXECUTION**
   A. Clear and grub area and grade to provide maximum slope of 1 percent away from paved roadway.
   B. Compact subgrade.
   C. Place filter fabric under stone if desired (recommended for entrance area that remains more than 3 months).
   D. Maintenance.
      1) Prevent tracking or flow of mud into the public right-of-way.
      2) Periodic top dressing with 2-inch stone may be required, as conditions demand, and repair any structures used to trap sediments.
      3) Inspect daily for loss of gravel or sediment buildup.
      4) Inspect adjacent area for sediment deposit and install additional controls as necessary.
      5) Expand stabilized area as required to accommodate activities.

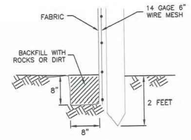


DETAIL-B
VEHICLE TRACKING CONTROL
(SEE APWA PLAN NO. 126)

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



INSTALLATION SEQUENCE



TOE DETAIL

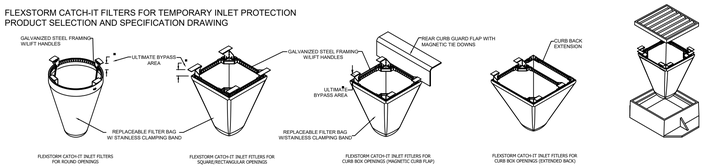
APWA Utah Chapter

Silt fence

Plan **122** February 2006

DETAIL-C
SILT FENCE
(SEE APWA PLAN NO. 122)

FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING



Product selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)

Standard	Inlet Type	Grate Size	Opening Size	Bag Cap. (ft³)	Flow Ratings (CFS)		ADS P/N
					FX	Bypass	
12" x 12" precast catch basin	Concrete Box (HD)	15 x 15	**12 x 12**	0.9	1.0	2.6	62SQ12FX
18" x 18" precast catch basin	Concrete Box (HD)	21 x 18	**18 x 18**	2.1	1.5	3.9	62SQ18FX
24" x 24" precast catch basin	Concrete Box (HD)	27 x 24	**24 x 24**	3.4	1.9	5.0	62SQ24FX
35.5x18 Curb Box	Curb Inlet (CB)	35.5x18	**33x15.5**	3.4	2.0	4.6	62UTCBEXTFX
36" x 24" precast catch basin	Concrete Box (HD)	40 x 24	**36 x 24**	5.6	2.5	6.5	62SQ362HFX
36" X 24" Combination inlet	Concrete Box (HD)	40 x 24	**36 x 32**	4.5	2.3	5.9	62SQCB362HFX
48 x 18 drop inlet	Frame and Grate (SQ)	48x18	**44x18**	4.7	2.6	5.5	62SQ4818FX
36" X 36" precast catch basin	Concrete Box (HD)	40 x 36	**36 x 36**	7.6	4.4	10.0	62SQ36FX
48" X 48" precast catch basin	Concrete Box (HD)	52 x 48	**48 x 48**	13.8	5.4	12.0	62SQ48FX

*FLOW RATINGS SHOWN ARE 50% MAXIMUM

NOTES

1. ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.
2. TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCTURES MAY REQUIRE ADDITIONAL REVIEW.
3. UPON ORDERING THE ADS P/N CONFIRMATION OF THE DOT CALLOUT, FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.
4. FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

INSTALLATION:

1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

NOTE: INLET PROTECTION REQUIRED ON ALL PROPOSED AND EXISTING INLETS ALONG THE PROJECT FRONTAGE.

DETAIL-D
INLET DROP PROTECTION
FLEXSTORM CATCH-IT INLET FILTER REQ'D (OR APPROVED EQUAL)

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=1'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

BID SET

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

TYPICAL SECTIONS & DETAILS

MARCH 12, 2026 LAST REVISED

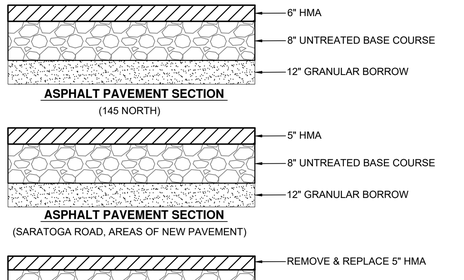
1005.2317 PROJECT NUMBER

DWG\C4-DETAIL DRAWING FILE

SARATOGA SPRINGS CITY

REGISTERED PROFESSIONAL ENGINEER No. 4839808-2202 JAMES J. MILLIGAN 3-12-26 STATE OF UTAH

SHEET NO. **C4.1**



ASPHALT PAVEMENT SECTION
(145 NORTH)

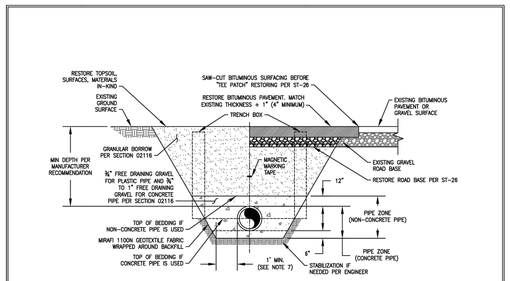
ASPHALT PAVEMENT SECTION
(SARATOGA ROAD, AREAS OF NEW PAVEMENT)

ASPHALT PAVEMENT SECTION
(SARATOGA ROAD, AREAS OF EXISTING ASPHALT)

6" DRIVABLE CONCRETE SECTION
(ALL DRIVEWAY APPROACHES, SIDEWALK CROSSING DRIVE APPROACHES, AND AS-NOTED ON PLAN)

5" CONCRETE SIDEWALK SECTION

DETAIL-1
PAVEMENT SECTIONS
(NOT TO SCALE)

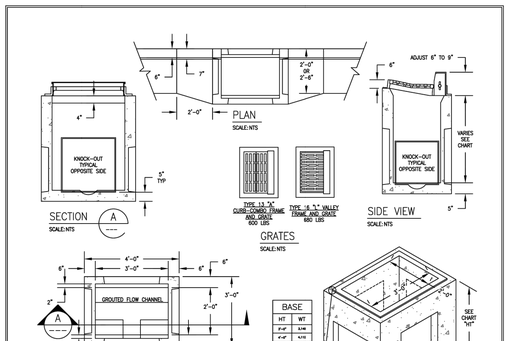


CROSS-SECTION: TYPICAL TRENCH

NOTES:
1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 300' OF SAID UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLUE STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY TO MOVE THE UTILITY IF NECESSARY OR OBTAIN PERMISSION FROM THE CITY ENGINEER TO MODIFY GRADE OF PIPELINE IN ORDER TO GO AROUND UTILITIES.
2. PROVIDE GEOTECHNICAL REPORT. FOLLOW RECOMMENDATIONS OF GEOTECHNICAL REPORT
3. PIPE ZONE SHALL BE PLACED IN LIFTS AND TAMPED
4. TRENCHES SHALL BE COMPACTED IN LIFTS TO 95% DENSITY
5. GEOTEXTILE FABRIC IS REQUIRED WHERE EVIDENCE OF EXISTING OR PAST GROUNDWATER CONDITIONS ARE PRESENT. THESE LOCATIONS ARE TYPICALLY EAST OF REDWOOD RD AND SOUTH OF CROSSROADS BLVD.
6. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE PARTY WHO DAMAGED THE UTILITY.
7. THE MINIMUM CLEAR WIDTH OF THE TRENCH, MEASURED AT THE SPRING LINE OF THE PIPE, SHOULD BE 12 INCHES GREATER THAN THE DIAMETER OF THE PIPE. IN ROCKY SUB-GRADES, 18" OF CLEARANCE SHALL BE PROVIDED ON ALL SIDES OF PIPE.
8. INSTALL MAGNETIC DETECTOR TAPE 3' ABOVE PIPE IN TRENCH.
9. THE CITY RECOMMENDS CONTRACTOR MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING. (SEE OSHA AND UOSH REQUIREMENTS, LATEST EDITIONS).
10. TESTING: ALL STORM DRAIN LINES TO HAVE POST INSTALLATION CCTV AND NECESSARY REPAIRS MADE BEFORE ACCEPTANCE. A MANDREL OR BALL CAN BE USED TO VERIFY DEFORMATION OF A PIPE AS DETERMINED FROM THE CCTV UNLESS SPECIFIED OTHERWISE. AIR TEST MAY BE REQUIRED BY ENGINEER TO 4 PSI FOR 10 MIN. WITH NO LOSS OF AIR PRESSURE.
11. ALL STORM DRAIN TO BE INSTALLED IN PUBLIC RIGHT-OF-WAY OR RECORDED DRAINAGE EASEMENT UNLESS OTHERWISE APPROVED BY THE CITY ENGINEERS.
12. WHERE COLLAPSIBLE SOILS ARE ENCOUNTERED, FURNISH, PLACE AND COMPACT IMPORTED BACKFILL MATERIALS AS REQUIRED AND AS DIRECTED.

STORM DRAIN PIPE TRENCH	DATE: SEP 2023	REVISIONS: REVISION | DATE | BY | COMMENTS	STANDARD DETAILS
	DRAWING NAME: SD-1		STORM DRAIN
	DRAWN BY: JWP	SARATOGA SPRINGS CITY	**SD-1**
	CHECKED: | APPROVED:	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794	

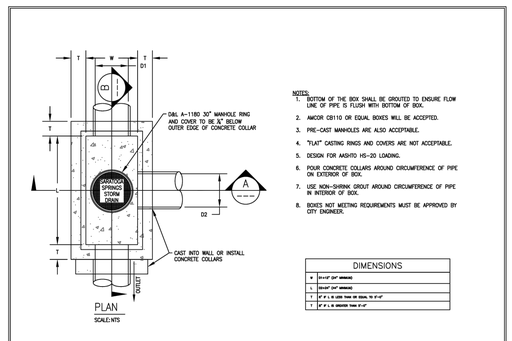
DETAIL-2
STORM DRAIN PIPE TRENCH
(SEE SARATOGA SPRINGS STANDARD DETAIL SD-1)



NOTES:
1. DESIGNED FOR AASHTO H-20 LOADING.
2. DESIGNED ACCORDING TO ASTM C57 AND ASTM C858-83.
3. ALL SUMPS TO BE GROUTED WITH FLOW CHANNELS FORMED INTO THE BOTTOM OF THE BOX TO MINIMIZE DEBRIS ACCUMULATION.
4. BICYCLE SAFE GRATES ONLY. PROVIDE TYPE 13 "A" GRATE, D&L I-3516 OR TYPE 16 "L" GRATE, D&L I-3517.
5. POUR CONCRETE COLLARS AROUND CIRCUMFERENCE OF PIPE ON EXTERIOR OF BOX.
6. USE NON-SHRINK GROUT AROUND CIRCUMFERENCE OF PIPE ON INTERIOR OF BOX.
7. CURB HOODS SHALL BE USED ONLY IN CURB APPLICATIONS.
8. FRAMES REQUIRE 4 BEARING WALLS.

GUTTER INLET BOX	DATE: SEP 2023	REVISIONS: REVISION | DATE | BY | COMMENTS	STANDARD DETAILS
	DRAWING NAME: SD-2		STORM DRAIN
	DRAWN BY: BTL	SARATOGA SPRINGS CITY	**SD-2**
	CHECKED: | APPROVED:	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794	

DETAIL-3
GUTTER INLET BOX
(SEE SARATOGA SPRINGS STANDARD DETAIL SD-2)



NOTES:
1. BOTTOM OF THE BOX SHALL BE GROUTED TO ENSURE FLOW LINE OF PIPE IS FLUSH WITH BOTTOM OF BOX.
2. AMCOR CB110 OR EQUAL BOXES WILL BE ACCEPTED.
3. PRE-CAST MANHOLES ARE ALSO ACCEPTABLE.
4. "FLAT" CASTING RINGS AND COVERS ARE NOT ACCEPTABLE.
5. DESIGN FOR AASHTO HS-20 LOADING.
6. POUR CONCRETE COLLARS AROUND CIRCUMFERENCE OF PIPE ON EXTERIOR OF BOX.
7. USE NON-SHRINK GROUT AROUND CIRCUMFERENCE OF PIPE IN INTERIOR OF BOX.
8. BOXES NOT MEETING REQUIREMENTS MUST BE APPROVED BY CITY ENGINEER.

DIMENSIONS	
A	24"x4" (24" MINIMUM)
L	22x22" (24" MINIMUM)
T	4" if L IS LESS THAN OR EQUAL TO 4'-0"
T	6" if L IS GREATER THAN 4'-0"

CLEANOUT BOX	DATE: SEP 2023	REVISIONS: REVISION | DATE | BY | COMMENTS	STANDARD DETAILS
	DRAWING NAME: SD-4		STORM DRAIN
	DRAWN BY:	SARATOGA SPRINGS CITY	**SD-4**
	CHECKED: | APPROVED:	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794	

DETAIL-4
CLEANOUT BOX
(SEE SARATOGA SPRINGS STANDARD DETAIL SD-4)

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE:	12/23
SURVEY BY:	CMT CREW
DRAWN BY:	RPB/AJP
DESIGNED BY:	RPB
CHECKED BY:	TDB
SCALE:	1"=1'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
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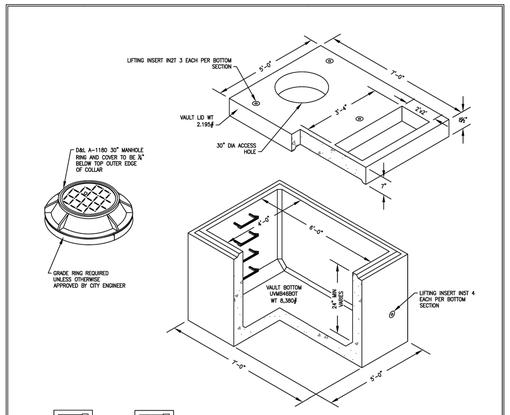
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS
TYPICAL SECTIONS & DETAILS

MARCH 12, 2026	
LAST REVISED	
PROJECT NUMBER	1005.2317
DRAWING FILE	DWG\04-DETAIL

BID SET

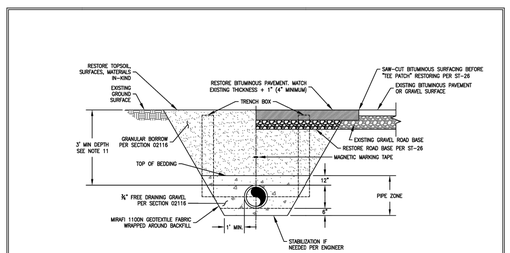
SARATOGA SPRINGS CITY



NOTES:
1. VAULTS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
2. OPENINGS MAY BE SIZED AND LOCATED AS REQUIRED.
3. OPTIONAL HARDWARE MAY BE CAST IN AS REQUIRED.
4. CHECK HARDWARE SECTION FOR OPTIONAL HARDWARE.
5. POUR CONCRETE COLLARS AROUND CIRCUMFERENCE OF PIPE ON EXTERIOR OF BOX.
6. USE NON-SHRINK GROUT AROUND CIRCUMFERENCE OF PIPE ON INTERIOR OF BOX.
7. BICYCLE SAFE GRATES ONLY. PROVIDE TYPE 13 "A" GRATE, D&L I-3516 OR TYPE 16 "L" GRATE, D&L I-3517.

COMBINATION BOX	DATE: SEP 2023	REVISIONS: REVISION | DATE | BY | COMMENTS	STANDARD DETAILS
	DRAWING NAME: SD-5		STORM DRAIN
	DRAWN BY: JWP	SARATOGA SPRINGS CITY	**SD-5**
	CHECKED: | APPROVED:	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794	

DETAIL-5
COMBINATION BOX
(SEE SARATOGA SPRINGS STANDARD DETAIL SD-5)

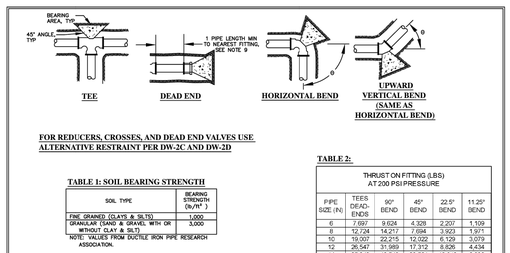


CROSS-SECTION: TYPICAL TRENCH

NOTES:
1. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 300' OF SAID UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLUE STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY TO MOVE THE UTILITY IF NECESSARY OR OBTAIN PERMISSION FROM THE CITY ENGINEER TO MODIFY GRADE OF PIPELINE IN ORDER TO GO AROUND UTILITIES.
2. PROVIDE GEOTECHNICAL REPORT. FOLLOW RECOMMENDATIONS OF GEOTECHNICAL REPORT
3. PIPE ZONE SHALL BE PLACED IN LIFTS AND TAMPED
4. TRENCHES SHALL BE COMPACTED IN LIFTS TO 95% DENSITY
5. GEOTEXTILE FABRIC IS REQUIRED WHERE EVIDENCE OF EXISTING OR PAST GROUNDWATER CONDITIONS ARE PRESENT. THESE LOCATIONS ARE TYPICALLY EAST OF REDWOOD RD AND SOUTH OF CROSSROADS BLVD.
6. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE PARTY WHO DAMAGED THE UTILITY.
7. THE MINIMUM CLEAR WIDTH OF THE TRENCH, MEASURED AT THE SPRING LINE OF THE PIPE, SHOULD BE 12 INCHES GREATER THAN THE DIAMETER OF THE PIPE. IN ROCKY SUB-GRADES, 18" OF CLEARANCE SHALL BE PROVIDED ON ALL SIDES OF PIPE.
8. INSTALL MAGNETIC DETECTOR TAPE 3' ABOVE PIPE OR 2' ABOVE PIPE WHEN PIPE IS SHALLOWER THAN 4' AND LOOP TRACING WIRE TO GROUND SURFACE IN VALVE BOXES PER DW-15.
9. THE CITY RECOMMENDS CONTRACTOR MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING. (SEE OSHA AND UOSH REQUIREMENTS, LATEST EDITIONS).
10. WHERE COLLAPSIBLE SOILS ARE ENCOUNTERED, FURNISH, PLACE AND COMPACT IMPORTED BACKFILL MATERIALS AS REQUIRED PER SPECIFICATIONS.
11. MINIMUM COVER OVER TOP OF PIPE SHALL BE 36-INCHES BELOW THE FINISHED GRADE. THIS DEPTH MAY BE INCREASED AS REQUIRED TO MISS UNDERGROUND UTILITIES, STORM DRAINS, OR OTHER OBSTRUCTIONS, OR WHERE INDICATED ON THE DRAWINGS.
12. FURNISH AND INSTALL POLY-WRAP ON DUCTILE IRON PIPE.

PRESSURIZED IRRIGATION PIPE TRENCH	DATE: SEP 2023	REVISIONS: REVISION | DATE | BY | COMMENTS	STANDARD DETAILS
	DRAWING NAME: PI-1		PRESSURIZED IRR
	DRAWN BY: JWP	SARATOGA SPRINGS CITY	**PI-1**
	CHECKED: | APPROVED:	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794	

DETAIL-6
IRRIGATION PIPE TRENCH
(SEE SARATOGA SPRINGS STANDARD DETAIL PI-1)



FOR REDUCERS, CROSSES, AND DEAD END VALVES USE ALTERNATIVE RESTRAINT PER DW-2C AND DW-2D

TABLE 1: SOIL BEARING STRENGTH

SOIL TYPE	BEARING STRENGTH (lb/ft²)
FINE GRAINED (CLAYS & SILTS)	1,000
GRANULAR (SAND & GRAVEL) WITH OR WITHOUT CLAY & SILT)	3,000

NOTE: VALUES FROM DUCTILE IRON PIPE RESEARCH ASSOCIATION.

SAFE BEARING LOAD FORMULA
THRUST BLOCK AREA AGAINST TRENCH WALL (SQUARE FEET) = 1.5 × THRUST ON FITTING (LBS) SEE TABLE 2 ÷ BEARING STRENGTH (LBS/SQ FT) SEE TABLE 1

TABLE 2:

	THRUST ON FITTING (LBS) AT 200 PSI PRESSURE				
PIPE SIZE (IN)	TEES DEAD-ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
6	7,697	9,624	4,326	2,207	1,109
8	12,724	14,217	7,694	3,923	1,971
10	19,007	22,215	12,022	6,129	3,079
12	26,547	31,989	17,312	8,826	4,434
14	35,343	43,540	23,564	12,013	6,036
16	45,396	56,669	30,777	15,690	7,883
18	56,706	71,975	38,953	19,858	9,977
20	69,272	88,858	48,090	24,518	12,317
24	98,175	127,955	69,249	35,303	17,737

TABLE 3:

	REQUIRED THRUST BLOCK BEARING AREA (SQ FT) FINE GRAINED SOILS (CLAYS & SILTS)				
PIPE SIZE (IN)	TEES DEAD-ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
6	12	15	7	4	2
8	20	22	12	6	3
10	29	34	19	10	5
12	40	48	26	14	7
14	54	66	36	19	10
16	69	86	47	24	12
18	86	108	59	30	15
20	104	134	73	37	19
24	148	192	104	53	27

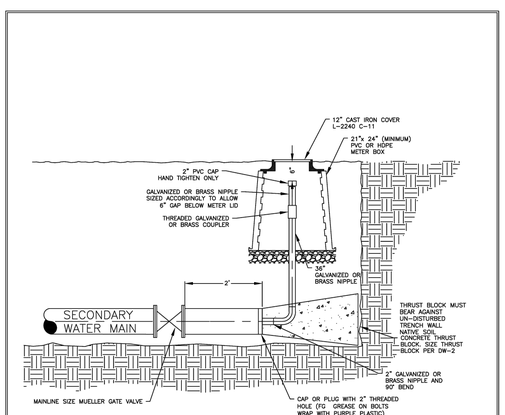
TABLE 4:

	REQUIRED THRUST BLOCK BEARING AREA (SQ FT) GRANULAR SOILS (SAND & GRAVEL WITH OR WITHOUT CLAY & SILT)				
PIPE SIZE (IN)	TEES DEAD-ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
6	4	5	3	2	1
8	7	8	4	2	1
10	10	12	7	4	2
12	14	16	9	5	3
14	18	22	12	7	4
16	23	29	16	8	4
18	29	36	20	10	5
20	35	45	25	13	7
24	50	64	35	18	9

NOTES:
1. CONCRETE THRUST BLOCKS ARE NOT ALLOWED UNDER PAVED SURFACES WITHIN PUBLIC RIGHT OF WAYS, I.E. BETWEEN INITIAL AND FUTURE CURB LINES. ALL PIPE FITTINGS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE RESTRAINED PER DW-17 OR SHALL BE DESIGNED AND SPECIFIED BY THE PROJECT ENGINEER.
2. RESTRAINED PIPE JOINTS MAY BE USED AS AN ALTERNATIVE TO THRUST BLOCKS PER DW-17.
3. MINIMUM SIZE OF THRUST BLOCK SHALL BE DETERMINED FROM THE TABLES ON THIS DRAWING.
4. CONCRETE MIX STRENGTH SHALL BE 2,000 PSI MIN.
5. PLACE CONCRETE AGAINST UNDISTURBED SOIL.
6. CAPS OR PLUGS SHALL BE LOCATED 1 PIPE LENGTH, IE, 18 FEET MINIMUM, FROM NEAREST FITTING OR JOINT.
7. FITTINGS SHALL BE POLYETHYLENE WRAPPED PRIOR TO PLACING CONCRETE THRUST BLOCK. CARE SHOULD BE TAKEN TO ASSURE THAT THE JOINT, INCLUDING BOLTS WILL BE ACCESSIBLE AFTER PLACING THE THRUST BLOCK.
8. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI, A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRENGTH INDICATED IN TABLE 1 ABOVE, AND UP TO 24" DIAMETER. CONDITIONS WITH PRESSURES, SOILS, OR PIPE SIZE OUTSIDE OF THESE LIMITS REQUIRE A PROJECT SPECIFIC DESIGN.
9. SITE SPECIFIC HORIZONTAL BEARING STRENGTH VALUES MAY BE USED TO CALCULATE THRUST BLOCK SIZES IF A SITE SPECIFIC GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THE SPECIFIC SITE IDENTIFYING SOIL BEARING STRENGTH.
10. IF A SITE SPECIFIC GEOTECHNICAL REPORT HAS BEEN PREPARED WITH SPECIFIC SITE SOIL BEARING STRENGTH, SITE SPECIFIC HORIZONTAL THRUST BLOCK SIZES MAY BE CALCULATED AND SUBMITTED TO THE CITY FOR CONSIDERATION.
11. FITTINGS SHALL BE POLYETHYLENE WRAPPED PRIOR TO PLACING CONCRETE THRUST BLOCK. CARE SHOULD BE TAKEN TO ASSURE THAT THE JOINT, INCLUDING BOLTS WILL BE ACCESSIBLE AFTER PLACING THE THRUST BLOCK.
12. THRUST BLOCK BEARING AREA SHALL BE ROUNDED UP TO NEAREST WHOLE NUMBER.

CONCRETE THRUST BLOCKS	DATE: OCTOBER 2023	REVISIONS: REVISION | DATE | BY | COMMENTS	STANDARD DETAILS
	DRAWING NAME: PI-2		DRINKING WATER
	DRAWN BY: AJH3	SARATOGA SPRINGS CITY	**PI-2**
	CHECKED: | APPROVED:	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794	

DETAIL-7
CONCRETE THRUST BLOCKS
(SEE SARATOGA SPRINGS STANDARD DETAIL PI-2)

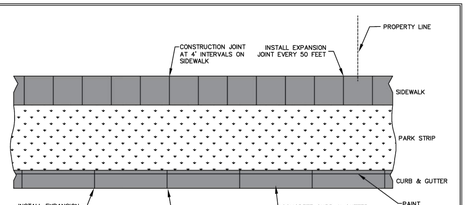


TEMPORARY 2" BLOW-OFF VALVE	DATE: MARCH 2022	REVISIONS: REVISION | DATE | BY | COMMENTS	STANDARD DETAILS
	DRAWING NAME: PI-12B		PRESSURIZED IRR
	DRAWN BY: JWP	SARATOGA SPRINGS CITY	**PI-12B**
	CHECKED: | APPROVED:	1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 PHONE: 801-766-9793 FAX: 801-766-9794	

DETAIL-8
TEMPORARY 2" BLOW-OFF VALVE
(SEE SARATOGA SPRINGS STANDARD DETAIL PI-12B)

REGISTERED PROFESSIONAL ENGINEER
No. 4838908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. **C4.2**



PLAN VIEW

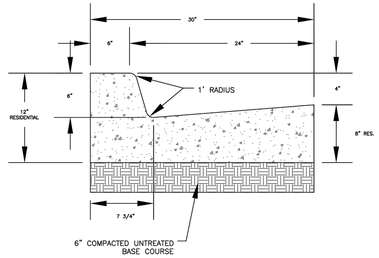
NOTES:

1. A MINIMUM 6" DEPTH OF ROADBASE MATERIAL SHALL BE PLACED TO GRADE AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY UNDER DRIVEWAY, WATERWAY, AND CURB & GUTTER PRIOR TO PLACEMENT OF CONCRETE.
2. A MINIMUM 6" DEPTH OF ROADBASE MATERIAL SHALL BE PLACED TO GRADE AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY UNDER SIDEWALK AT ALL OTHER LOCATIONS PRIOR TO PLACEMENT OF CONCRETE.
3. WHERE CONSTRUCTION IS ADJACENT TO STATE HIGHWAY FRONTAGE, STATE HIGHWAY DEPARTMENT REQUIREMENTS SHALL GOVERN.
4. CONCRETE SHALL BE 3/4 INCH MAXIMUM AGGREGATE, 6.3 BAGS PER YARD OF TYPE 2 CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
5. EXPANSION JOINTS FOR CURB & GUTTER ARE TO BE SPACED NO MORE THAN 100 FT. AND SIDEWALKS SHALL BE SPACED EVERY 50 FT. EXPANSION JOINTS SHALL BE CONSTRUCTED BY PLACING AN APPROVED MATERIAL, (TYPICALLY BITUMINOUS IMPREGNATED FIBERBOARD), THE FULL DEPTH OF THE CONCRETE.
6. CONSTRUCTION JOINT IS MADE BY SCORING THE CONCRETE WITH 1/2" RADIUS EDGING TOOL OR OTHER METHOD APPROVED BY ENGINEER.
7. SLOPE SIDEWALK TO ROADWAY AT 1.5% GRADE (+/- 0.5% MAX).
8. LOCATE ALL INLET GRATES 2' MINIMUM AWAY FROM THE PEDESTRIAN CROSSWALK, WITH ALL DRAINAGE INTERCEPTED BEFORE IT GETS TO THE CROSSWALK AREA.
9. THE SIDEWALK SHALL BE A MIN. 5" THICK CONCRETE.
10. INSTALL MAGNETIC DETECTOR TAPE WITH A MIN. OF 14 GAUGE COATED TRACER WIRE FOR ALL PVC OR OTHER PIPE.
11. PAINT LOT NUMBERS AT PROPERTY LINES.
12. SEWER LATERAL LOCATIONS TO BE MARKED ON TOP OF CURB WITH AN S.
13. CULINARY WATER LATERAL LOCATIONS TO BE MARKED ON TOP OF CURB WITH A W.
14. SECONDARY WATER LATERAL LOCATIONS TO BE MARKED ON TOP OF CURB WITH AN I.
15. WATER VALVE LOCATIONS TO BE MARKED ON TOP OF CURB WITH A V.

SIDEWALK AND CURB & GUTTER

DATE: MARCH 2022 | DRAWING NAME: ST-1 | DRAWN BY: JBP | CHECKED: | APPROVED:
REVISIONS: REVISION | DATE | BY | COMMENTS
SARATOGA SPRINGS CITY — 1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 — PHONE: 801-766-9793 FAX: 801-766-9794
STANDARD DETAILS | STREET STANDARDS | **ST-1**

DETAIL-9
SIDEWALK AND CURB & GUTTER
(SEE SARATOGA SPRINGS STANDARD DETAIL ST-1)

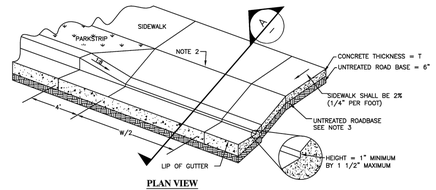


*FOR USE ON COLLECTOR AND ARTERIAL ROADWAYS

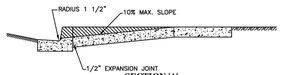
RESIDENTIAL 30" HIGH BACK CURB & GUTTER

DATE: MARCH 2022 | DRAWING NAME: ST-2A | DRAWN BY: JBP | CHECKED: | APPROVED:
REVISIONS: REVISION | DATE | BY | COMMENTS
SARATOGA SPRINGS CITY — 1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 — PHONE: 801-766-9793 FAX: 801-766-9794
STANDARD DETAILS | STREET STANDARDS | **ST-2A**

DETAIL-10
30" HIGH BACK CURB & GUTTER
(SEE SARATOGA SPRINGS STANDARD DETAIL ST-2A)



PLAN VIEW



SECTION 'A'

NOTES:

1. EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
2. PLACE 1/2" EXPANSION JOINT BETWEEN DRIVEWAY APRON AND CURB AND IN THE DRIVEWAY CENTERLINE IF "W" IS GREATER THAN 20'. FILLER MATERIAL SHALL BE FULL DEPTH OF CONCRETE PLUS 1", WITH TOP SET FLUSH WITH TOP OF CONCRETE.
3. USE UNTREATED ROADBASE UNDER CURB, GUTTER AND SIDEWALK. COMPACT TO 95% OF THE MAXIMUM DRY DENISTY.
4. ALL CONCRETE SLABS WITH A LENGTH/WIDTH RATIO GREATER THAN 2:1 SHALL HAVE CONTRACTION JOINTS INSTALLED AS REQUIRED TO STAY WITHIN 2:1 RATIO.
5. BACK EDGE OF SIDEWALK TO BE SET AT AN ELEVATION 2% HIGHER THAN THE TOP BACK OF CURB.
6. SIDEWALK TO BE A MINIMUM OF 5 FEET WIDE UNLESS OTHERWISE SPECIFIED.
7. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CITY'S STANDARD SPECIFICATIONS.

DRIVE APPROACH DIMENSIONS

DIMENSION	LEGNTH ACCORDING TO ZONE
W	12'-0" MIN. RESIDENTIAL ZONES 30'-0" MAX. RESIDENTIAL ZONES
T	0'-~~5" RESIDENTIAL ZONES~~ 6"

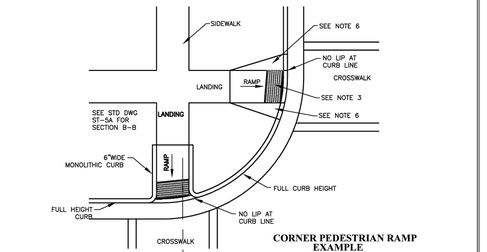
SLOPE TABLE

DIMENSION	ZONE
(A) 2% MAX.	RESIDENTIAL ZONE
(B) 3% MAX.	RESIDENTIAL ZONE
(C) 5% MAX.	RESIDENTIAL ZONE

SINGLE FAMILY RESIDENTIAL DRIVE APPROACH

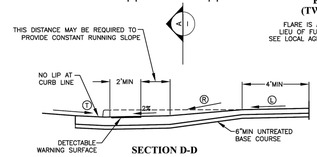
DATE: MARCH 2022 | DRAWING NAME: ST-4A | DRAWN BY: JBP | CHECKED: | APPROVED:
REVISIONS: REVISION | DATE | BY | COMMENTS
SARATOGA SPRINGS CITY — 1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 — PHONE: 801-766-9793 FAX: 801-766-9794
STANDARD DETAILS | STREET STANDARDS | **ST-4A**

DETAIL-11
RESIDENTIAL CONCRETE DRIVE APPROACH (MODIFIED)
(SEE SARATOGA SPRINGS STANDARD DETAIL ST-4A)



CORNER PEDESTRIAN RAMP EXAMPLE (TWO RAMPS)

FLARE IS ACCEPTABLE IN LIEU OF FULL HEIGHT CURB SEE LOCAL AGENCY REQUIREMENTS



SECTION D-D

NOTES:

1. REFER TO STD DWG ST-5A FOR PEDESTRIAN ACCESS RAMP DETAIL AND SLOPE REQUIREMENTS.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP, LANDING, OR CURB CUT. SEE DETAIL A ON STD DWG ST-5A FOR DETECTABLE WARNING SURFACE DIMENSIONS.
3. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 6" TO 8" FROM THE CURB LINE.
4. WHEN DETECTABLE WARNING SURFACE IS CUT, GRIND REMAINING PORTION OF ANY CUT DOMES. SEAL ALL CUT PANEL EDGES TO PREVENT WATER DAMAGE.
5. LOCATE CURB CUT WITHIN CROSSWALK.
6. WARP FLATWORK TO MATCH TOP OF CURB AND SIDEWALK.

ADA ACCESSIBLE CURB RAMP

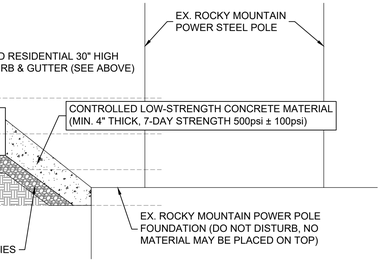
DATE: MARCH 2022 | DRAWING NAME: ST-5D | DRAWN BY: JBP | CHECKED: | APPROVED:
REVISIONS: REVISION | DATE | BY | COMMENTS
SARATOGA SPRINGS CITY — 1307 N. COMMERCE DR. #200, SARATOGA SPRINGS, UT 84045 — PHONE: 801-766-9793 FAX: 801-766-9794
STANDARD DETAILS | STREET STANDARDS | **ST-5D**

DETAIL-12
ADA CURB RAMP
(SEE SARATOGA SPRINGS STANDARD DETAIL ST-5D)

NO.	DESCRIPTION	DATE	APP'D

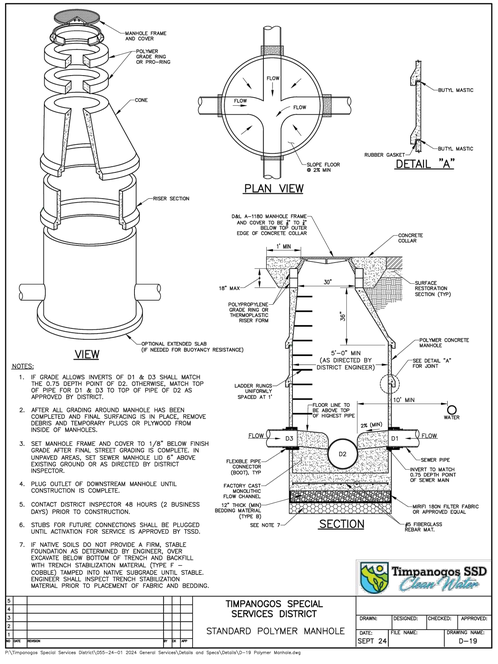
ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=1'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB



MODIFIED RESIDENTIAL 30" HIGH BACK CURB & GUTTER

DETAIL-13
MODIFIED 30" CURB & GUTTER AND CONCRETE FILL
(AT RMP STEEL DOUBLE DEADEND POLE, AS NOTED ON PLANS)



NOTES:

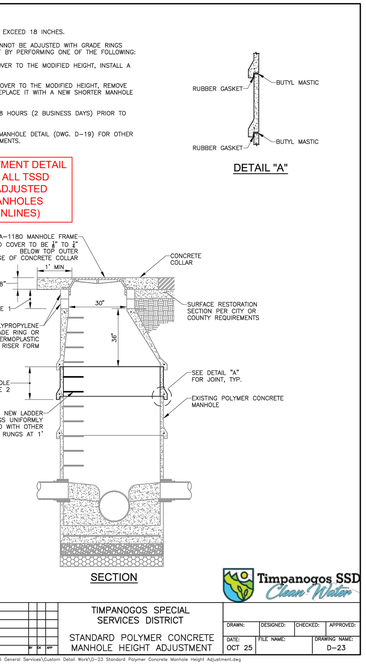
1. IF GRADE ALLOWS INVERTS OF D1 & D3 SHALL MATCH THE 0.75 DEPTH POINT OF D2. OTHERWISE, MATCH TOP OF PIPE FOR D1 & D3 TO TOP OF PIPE OF D2 AS APPROVED BY DISTRICT.
2. AFTER ALL GRADING AROUND MANHOLE HAS BEEN COMPLETED AND FINAL SURFACING IS IN PLACE, REMOVE DEBRIS AND TEMPORARY PLUGS OR PLYWOOD FROM INSIDE OF MANHOLES.
3. SET MANHOLE FRAME AND COVER TO 1/8" BELOW FINISH GRADE AFTER FINAL STREET GRADING IS COMPLETE. IN UNPAVED AREAS, SET SEWER MANHOLE LID 6" ABOVE EXISTING GROUND OR AS DIRECTED BY DISTRICT INSPECTOR.
4. PLUG OUTLET OF DOWNSTREAM MANHOLE UNTIL CONSTRUCTION IS COMPLETE.
5. CONTACT DISTRICT INSPECTOR 48 HOURS (2 BUSINESS DAYS) PRIOR TO CONSTRUCTION.
6. STUBS FOR FUTURE CONNECTIONS SHALL BE PLUGGED UNTIL ACTIVATION FOR SERVICE IS APPROVED BY TSSD.
7. IF NATIVE SOILS DO NOT PROVIDE A FIRM, STABLE FOUNDATION AS DETERMINED BY ENGINEER, OVER EXCAVATE BELOW BOTTOM OF TRENCH AND BACKFILL WITH TRENCH STABILIZATION MATERIAL (TYPE F - COBBLE) TAMPED INTO NATIVE SUBGRADE UNTIL STABLE. ENGINEER SHALL INSPECT TRENCH STABILIZATION MATERIAL PRIOR TO PLACEMENT OF FABRIC AND BEDDING.

Timpanogos SSD Clean Water

TIMPANOGOS SPECIAL SERVICES DISTRICT
STANDARD POLYMER MANHOLE
DRAWN: | DESIGNED: | CHECKED: | APPROVED:
DATE: SEPT 24 | FILE NAME: | DRAWING NAME: D-19

P:\Timpanogos Special Services District\055-24-01 2024 General Services\Details and Specs\Details\D-19 Polymer Manhole.dwg

DETAIL-14
TSSD STANDARD POLYMER MANHOLE
(SEE TSSD DRAWING #D-19)

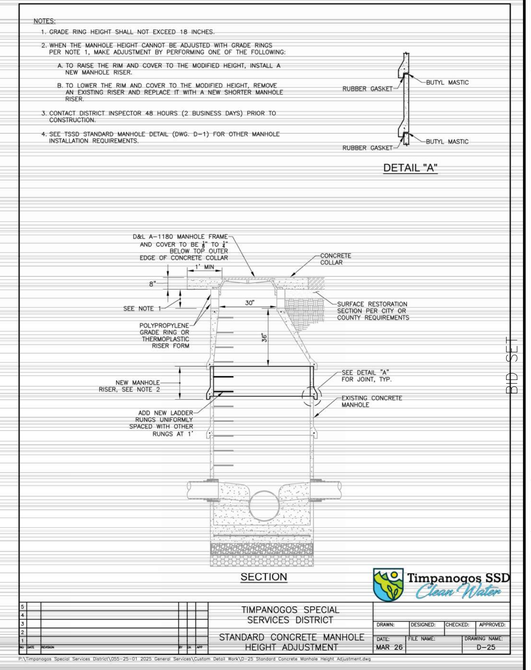


Timpanogos SSD Clean Water

TIMPANOGOS SPECIAL SERVICES DISTRICT
STANDARD POLYMER CONCRETE MANHOLE HEIGHT ADJUSTMENT
DRAWN: | DESIGNED: | CHECKED: | APPROVED:
DATE: OCT 25 | FILE NAME: | DRAWING NAME: D-23

P:\Timpanogos Special Services District\055-25-01 2025 General Services\Custom Detail Work\D-23 Standard Polymer Concrete Manhole Height Adjustment.dwg

DETAIL-15
TSSD STANDARD POLYMER CONCRETE MANHOLE HEIGHT ADJUSTMENT
(FOR POLYMER CONCRETE TSSD MANHOLES, SEE TSSD DRAWING #D-23)



Timpanogos SSD Clean Water

TIMPANOGOS SPECIAL SERVICES DISTRICT
STANDARD CONCRETE MANHOLE HEIGHT ADJUSTMENT
DRAWN: | DESIGNED: | CHECKED: | APPROVED:
DATE: MAR 26 | FILE NAME: | DRAWING NAME: D-25

P:\Timpanogos Special Services District\055-25-01 2025 General Services\Custom Detail Work\D-25 Standard Concrete Manhole Height Adjustment.dwg

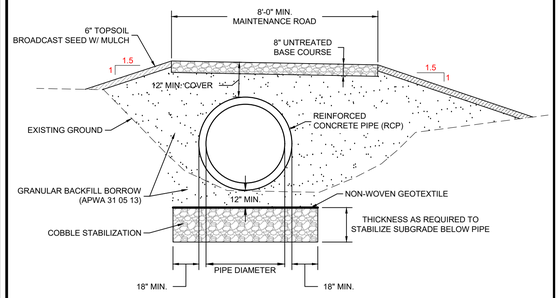
DETAIL-16
TSSD STANDARD POLYMER CONCRETE MANHOLE HEIGHT ADJUSTMENT
(FOR STANDARD CONCRETE TSSD MANHOLES, SEE TSSD DRAWING #D-25)

SARATOGA ROAD & 145 NORTH IMPROVEMENTS
TYPICAL SECTIONS & DETAILS
DWG\04-DETAIL
DRAWING FILE
1005.2317
PROJECT NUMBER
MARCH 12, 2026
LAST REVISED
BID SET

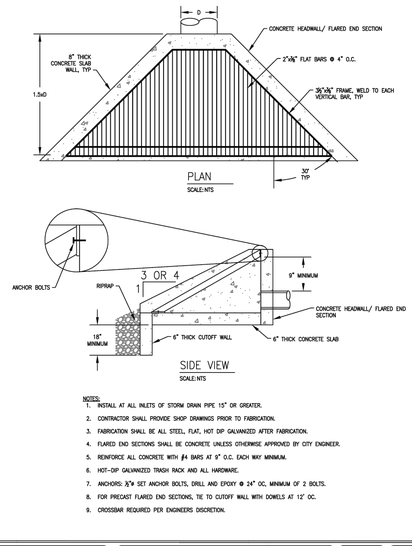
SARATOGA SPRINGS
CITY

PROFESSIONAL ENGINEER — No. 4899908-2202 — JAMES J. MILLIGAN — 3-12-26 — STATE OF UTAH

SHEET NO. **C4.3**



DETAIL-17
CANAL PIPING CROSS SECTION
(NOT TO SCALE)



NOTES:
1. INSTALL AT ALL INLETS OF STORM DRAIN PIPE 15" OR GREATER.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION.
3. FABRICATION SHALL BE ALL STEEL, FLAT, HOT DIP GALVANIZED AFTER FABRICATION.
4. FLARED END SECTIONS SHALL BE CONCRETE UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
5. REINFORCE ALL CONCRETE WITH #4 BARS AT 9" O.C. EACH WAY MINIMUM.
6. HOT-DIP GALVANIZED TRASH RACK AND ALL HARDWARE.
7. ANCHORS: ⅜" SET ANCHOR BOLTS, DRILL AND EPOXY Φ 24" OC, MINIMUM OF 2 BOLTS.
8. FOR PRECAST FLARED END SECTIONS, TIE TO CUTOFF WALL WITH DOWELS AT 12" OC.
9. CROSSBAR REQUIRED PER ENGINEERS DISCRETION.

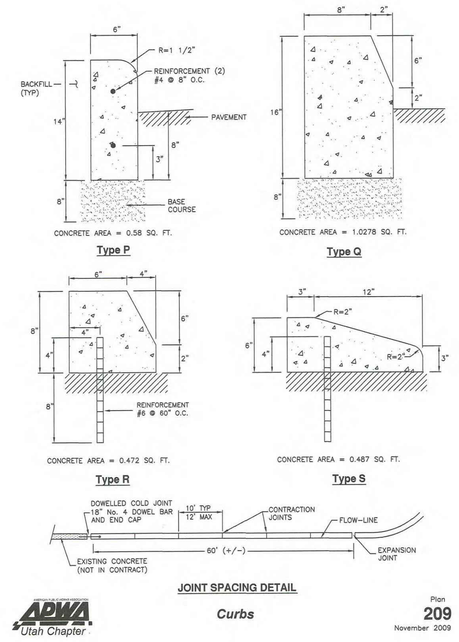
INLET/OUTLET TRASH GRATES

DATE: SEP 2023	REVISIONS: REVISION	DATE	BY	COMMENTS
DRAWING NAME: SD-6				
DRAWN BY: JWP				
CHECKED	APPROVED			

SARATOGA SPRINGS CITY
1307 N. COMMERCE DR.
SUITE 200
SARATOGA SPRINGS, UTAH 84045
PHONE: 801-766-9793
FAX: 801-766-9794

STANDARD DETAILS
STORM DRAIN
SD-6

DETAIL-18
FLARED-END STRUCTURE
(SEE SARATOGA SPRINGS STANDARD DETAIL SD-6)



JOINT SPACING DETAIL

APWA Utah Chapter

Curbs

Plan **209**
November 2009

DETAIL-19
TYPE Q CURB
(SEE APWA PLAN #209)

DETAIL-20
NOT USED

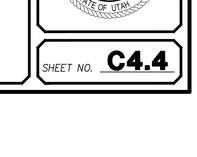
NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=1'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

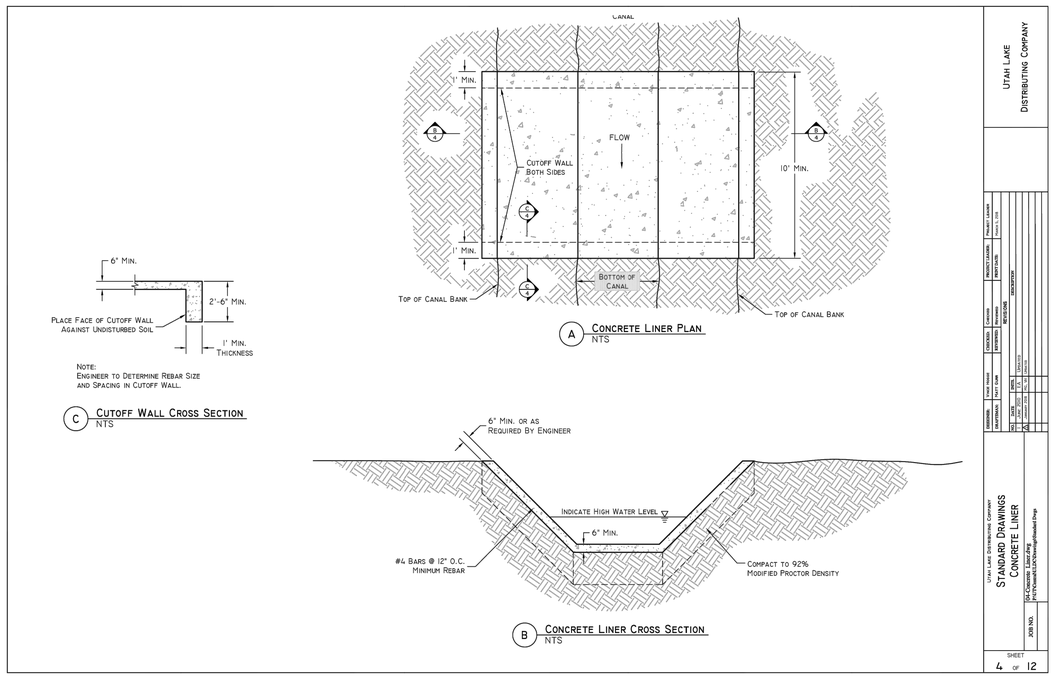
SARATOGA ROAD & 145 NORTH IMPROVEMENTS
TYPICAL SECTIONS & DETAILS
DWG\04-DETAIL
DRAWING FILE
1005.2317
PROJECT NUMBER
MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS CITY



SHEET NO. **C4.4**

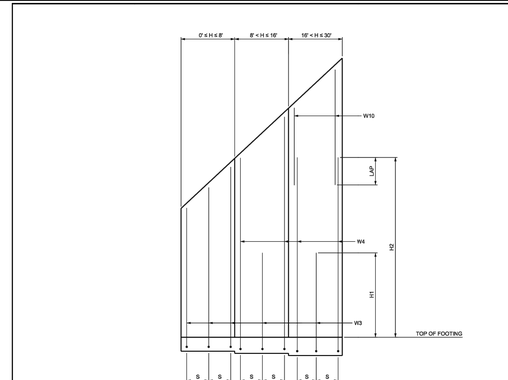
BID SET



UTAH LAKE DISTRIBUTING COMPANY

UTAH LAKE DISTRIBUTING Company
STANDARD DRAWINGS
CONCRETE LINER
JOB NO.
SHEET 4 OF 12

DETAIL-21
CONCRETE CANAL LINER
(NOT TO SCALE)

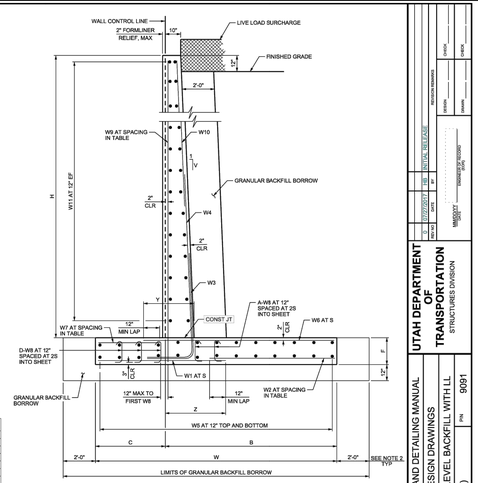


BACK FACE VERTICAL REINFORCING SCHEMATIC

TABLE OF DIMENSIONS, REINFORCING STEEL, AND BEARING DATA

DIMENSIONS	H	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	30'-0"
	W	2'-6"	3'-6"	4'-6"	5'-6"	6'-6"	7'-6"	8'-6"	9'-6"	10'-6"	11'-6"	12'-6"	13'-1"	14'-3"	14'-10"
	C	1'-3"	1'-3"	1'-6"	1'-9"	2'-0"	2'-4"	2'-9"	3'-0"	3'-4"	3'-8"	4'-0"	4'-3"	4'-9"	4'-10"
	B	1'-6"	2'-0"	3'-0"	3'-9"	4'-6"	5'-0"	5'-6"	6'-6"	7'-0"	7'-6"	8'-4"	8'-10"	9'-6"	10'-0"
	F	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-6"	1'-6"	2'-0"	2'-2"	2'-6"	2'-8"	2'-8"	2'-10"	3'-10"
	V	1'-24	1'-24	1'-24	1'-24	1'-24	1'-24	1'-24	1'-24	1'-24	1'-24	1'-24	1'-19	1'-16	1'-16	1'-13
	S	18"	18"	12"	7"	6"	7"	5"	7"	6"	6"	6"	7"	6"	6"
REINFORCING STEEL	W1	#4	#5	#4	#4	#4	#4	#4	#4	#4	#5	#5	#6	#6	#7
	W2	-	-	-	-	-	-	-	-	-	#5@12"	#5@12"	#6@14"	#5@12"	#5@12"
	W3	#4	#5	#4	#4	#4	#5	#5	#5	#7	#7	#8	#8	#9	#9
	W4	-	-	-	-	#4	#4	#5	#5	#7	#7	#8	#8	#9	#9
	W5	#4	#4	#4	#4	#4	#4	#4	#4	#5	#5	#5	#5	#5	#5
	W6	#4	#4	#4	#4	#4	#4	#5	#4	#5	#5	#6	#6	#7	#7
	W7	-	-	-	-	-	-	-	-	-	-	#5@12"	#5@12"	#6@14"	#5@12"	#5@12"
	W8	-	-	-	-	-	-	-	-	#4	#4	#4	#4	#4	#4
	W9	#4@18"	#4@18"	#4@18"	#4@14"	#4@18"	#4@14"	#4@15"	#4@14"	#4@12"	#4@12"	#4@12"	#5@14"	#5@12"	#5@12"
	W10	-	-	-	-	-	-	-	#5	#5	#6	#6	#7	#7	#7
	W11	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#5	#5	#5
	A	-	-	-	-	-	-	-	2	2	2	2	2	2	3
	D	-	-	-	-	-	-	-	2	3	2	3	3	4	4
	Z	2'-0"	2'-1"	2'-6"	2'-10"	3'-2"	3'-7"	4'-1"	4'-0"	4'-10"	1'-0"	1'-1"	1'-4"	1'-4"	1'-10"
	Y	1'-4"	2'-4"	3'-0"	3'-7"	4'-2"	4'-10"	5'-6"	6'-4"	6'-10"	1'-6"	1'-8"	1'-11"	2'-0"	2'-0"
	H1	-	-	-	2'-6"	5'-0"	6'-3"	-	6'-9"	7'-6"	8'-4"	9'-6"	10'-10"	12'-3"	13'-3"	14'-0"
	H2	-	-	-	-	-	-	-	1'-1"-3"	12'-7"	13'-9"	15'-6"	16'-11"	18'-1"	19'-5"
	LAP	-	-	-	-	-	-	-	2'-0"	2'-0"	3'-7"	3'-7"	4'-2"	4'-2"	4'-2"
BEARING DATA	SERV	⊕ PT	2.05	3.07	4.00	4.65	5.18	6.04	7.16	8.01	8.63	9.61	10.37	10.94	12.16	12.44
		Ov KSF	0.91	1.26	1.46	1.74	2.15	2.41	2.54	2.93	3.23	3.49	3.82	4.13	4.27	4.70
	STR	⊕ PT	1.66	2.22	2.96	3.43	3.76	4.48	5.45	7.61	6.61	8.11	9.84	8.55	11.56	9.83
		Ov KSF	1.45	1.94	2.19	2.61	3.28	3.61	3.70	4.25	4.70	5.05	5.52	5.97	6.15	6.79
	EXT	⊕ PT	1.54	1.85	2.30	2.44	2.35	2.67	3.26	3.50	3.51	3.88	4.22	4.37	5.04	5.00
		Ov KSF	1.18	1.89	2.36	3.14	4.56	5.32	5.49	6.68	7.97	8.75	9.55	10.55	10.56	12.02

* CONSIDER ALTERNATE WALL TYPES OR COUNTERFORT WALLS FOR H > 22'



SPREAD FOOTING SECTION
(SEE TABLE FOR REINFORCING SPACING NOT SHOWN)

NOTES
1. 'F' IS THE EFFECTIVE FOOTING WIDTH AND Ov IS THE VERTICAL STRESS IN THE SOIL AS DEFINED IN THE CURRENT EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
2. A TWO FOOT HORIZONTAL AND FOOTING DEPTH VERTICAL LAYER OF GRANULAR BACKFILL BORROW IS REQUIRED IN FRONT OF THE TOE AND BEHIND THE HEEL.

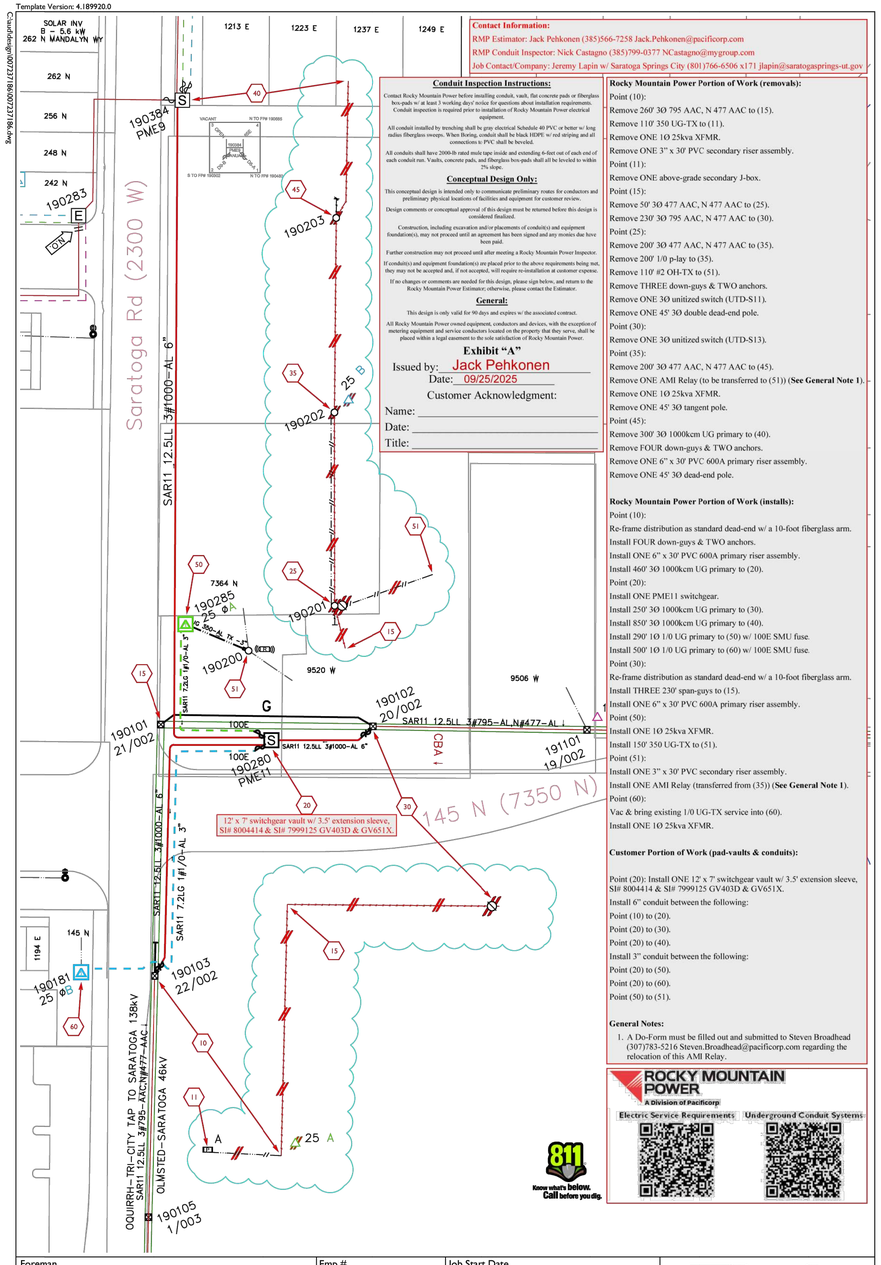
UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION

STRUCTURES DESIGN AND DETAILING MANUAL
STRUCTURES DESIGN DRAWINGS
CIP RETAINING WALL - LEVEL BACKFILL WITH LL
PIN 9091
S-ST99(128)

STATEWIDE
COUNTY
SDDM
STRUCTURE NUMBER
SD-104B
DRAWING NUMBER
SHEET XX OF XX

DETAIL-22
4' UDOT RETAINING WALL
(SEE UDOT STRUCTURE DIVISION DRAWING SD-104B)

Template Version: 4.189920.0



Contact Information:
RMP Estimator: Jack Pehkonen (385)566-7258 Jack.Pehkonen@pacificorp.com
RMP Conduit Inspector: Nick Castagno (385)799-0377 NCastagno@mygroup.com
Job Contact/Company: Jeremy Lapin w/ Saratoga Springs City (801)766-6506 x171 jlapin@saratogaspringsut.gov

Conduit Inspection Instructions:

Contact Rocky Mountain Power before installing conduit, vault, flat concrete pads or fiberglass box-pads w/ at least 3 working days' notice for questions about installation requirements. Conduit inspection is required prior to installation of Rocky Mountain Power electrical equipment.

All conduit installed by trenching shall be gray electrical Schedule 40 PVC or better w/ long radius fiberglass sweeps. When Boring, conduit shall be black HDPE w/ red striping and all connections to PVC shall be beveled.

All conduits shall have 2000-lb rated mule tape inside and extending 6-feet out of each end of each conduit run. Vaults, concrete pads, and fiberglass box-pads shall all be leveled to within 2% slope.

Conceptual Design Only:

This conceptual design is intended only to communicate preliminary routes for conductors and preliminary physical locations of facilities and equipment for customer review.

Design comments or conceptual approval of this design must be returned before this design is considered finalized.

Construction, including excavation and/or placements of conduit(s) and equipment foundation(s), may not proceed until an agreement has been signed and any monies due have been paid.

Further construction may not proceed until after meeting a Rocky Mountain Power Inspector.

If conduit(s) and equipment foundation(s) are placed prior to the above requirements being met, they may not be accepted and, if not accepted, will require re-installation at customer expense.

If no changes or comments are needed for this design, please sign below, and return to the Rocky Mountain Power Estimator; otherwise, please contact the Estimator.

General:

This design is only valid for 90 days and expires w/ the associated contract.

All Rocky Mountain Power owned equipment, conductors and devices, with the exception of metering equipment and service conductors located on the property that they serve, shall be placed within a legal easement to the sole satisfaction of Rocky Mountain Power.

Exhibit "A"

Issued by: Jack Pehkonen
Date: 09/25/2025

Customer Acknowledgment:

Name: _____
Date: _____
Title: _____

Rocky Mountain Power Portion of Work (removals):

Point (10):
Remove 260' 3Ø 795 AAC, N 477 AAC to (15).
Remove 110' 350 UG-TX to (11).
Remove ONE 1Ø 25kva XFMR.
Remove ONE 3" x 30' PVC secondary riser assembly.
Point (11):
Remove ONE above-grade secondary J-box.
Point (15):
Remove 50' 3Ø 477 AAC, N 477 AAC to (25).
Remove 230' 3Ø 795 AAC, N 477 AAC to (30).
Point (25):
Remove 200' 3Ø 477 AAC, N 477 AAC to (35).
Remove 200' 1/0 p-lay to (35).
Remove 110' #2 OH-TX to (51).
Remove THREE down-guys & TWO anchors.
Remove ONE 3Ø unitized switch (UTD-S11).
Remove ONE 45' 3Ø double dead-end pole.
Point (30):
Remove ONE 3Ø unitized switch (UTD-S13).
Point (35):
Remove 200' 3Ø 477 AAC, N 477 AAC to (45).
Remove ONE AMI Relay (to be transferred to (51)) (**See General Note 1**).
Remove ONE 1Ø 25kva XFMR.
Remove ONE 45' 3Ø tangent pole.
Point (45):
Remove 300' 3Ø 1000kcm UG primary to (40).
Remove FOUR down-guys & TWO anchors.
Remove ONE 6" x 30' PVC 600A primary riser assembly.
Remove ONE 45' 3Ø dead-end pole.

Rocky Mountain Power Portion of Work (installs):

Point (10):
Re-frame distribution as standard dead-end w/ a 10-foot fiberglass arm.
Install FOUR down-guys & TWO anchors.
Install ONE 6" x 30' PVC 600A primary riser assembly.
Install 460' 3Ø 1000kcm UG primary to (20).
Point (20):
Install ONE PME11 switchgear.
Install 250' 3Ø 1000kcm UG primary to (30).
Install 850' 3Ø 1000kcm UG primary to (40).
Install 290' 1Ø 1/0 UG primary to (50) w/ 100E SMU fuse.
Install 500' 1Ø 1/0 UG primary to (60) w/ 100E SMU fuse.
Point (30):
Re-frame distribution as standard dead-end w/ a 10-foot fiberglass arm.
Install THREE 230' span-guys to (15).
Install ONE 6" x 30' PVC 600A primary riser assembly.
Point (50):
Install ONE 1Ø 25kva XFMR.
Install 150' 350 UG-TX to (51).
Point (51):
Install ONE 3" x 30' PVC secondary riser assembly.
Install ONE AMI Relay (transferred from (35)) (**See General Note 1**).
Point (60):
Vac & bring existing 1/0 UG-TX service into (60).
Install ONE 1Ø 25kva XFMR.

Customer Portion of Work (pad-vaults & conduits):

Point (20): Install ONE 12' x 7' switchgear vault w/ 3.5' extension sleeve, SI# 8004414 & SI# 7999125 GV403D & GV651X.
Install 6" conduit between the following:
Point (10) to (20).
Point (20) to (30).
Point (20) to (40).
Install 3" conduit between the following:
Point (20) to (50).
Point (20) to (60).
Point (50) to (51).

General Notes:

1. A Do-Form must be filled out and submitted to Steven Broadhead (307)783-5216 Steven.Broadhead@pacificorp.com regarding the relocation of this AMI Relay.

ROCKY MOUNTAIN POWER
A Division of Pacificorp
Electric Service Requirements | Underground Conduit Systems

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

Foreman		Emp #	Job Start Date			
CC# 11421	WO# / REQ# 007237186	Map String 11405001.0	Job Complete Date			
Customer: SAR11 SARATOGA CITY ROAD WIDENING 7350 N Address: SARATOGA RD & 145 N, SARATOGA SPRINGS, UT 84045 Estimator: Jack Pehkonen (385)566-7258			Circuit SAR11	Post Jobs ☐ RQII ☐ Posted ☐	EST ID# P45838	Print Date 9/19/2025	Scale 1" = 90'

PACIFICORP
A BERKSHIRE HATHAWAY ENERGY COMPANY

1 OF 1

DETAIL-23
PACIFICORP POWER DESIGN
(NOT TO SCALE)

BID SET

NO.	DESCRIPTION	DATE	APP'D

ORIG. DATE: 12/23
SURVEY BY: CMT CREW
DRAWN BY: RPB/AJP
DESIGNED BY: RPB
CHECKED BY: TDB
SCALE: 1"=1'

CMT TECHNICAL SERVICES
2796 SOUTH REDWOOD ROAD, WEST VALLEY, UT 84119
PHONE: (801) 908-5859
MATERIALS TESTING • INSPECTION SERVICES • LAB TESTING • GEOTECHNICAL
ENVIRONMENTAL • CIVIL ENGINEERING • TRANSPORTATION ENGINEERING
SURVEYING CONSTRUCTION MANAGEMENT SPECIALTY LAB

SARATOGA ROAD & 145 NORTH IMPROVEMENTS

TYPICAL SECTIONS & DETAILS

DWG\04-DETAIL
DRAWING FILE

1005.2317
PROJECT NUMBER

MARCH 12, 2026
LAST REVISED

SARATOGA SPRINGS
CITY

LICENSED PROFESSIONAL ENGINEER
No. 4899908-2202
JAMES J. MILLIGAN
3-12-26
STATE OF UTAH

SHEET NO. C4.5

LEGEND

- CONDUIT
- P1 — SIGNAL POLE IDENTIFICATION
- DUAL MAST ARM SIGNAL POLE
- MAST ARM SIGNAL POLE
- SIGNAL POLE LUMINAIRE EXTENSION WITH ARM
- SIGNAL POLE LUMINAIRE EXTENSION WITH VERTICAL ATTACHMENT
- MAST ARM MOUNTED SIGN
- PS — POWER SOURCE
- TRAFFIC SIGNAL POLE
- TYPE 0 - 1 SECTION SIGNAL HEAD ASSEMBLY
- TYPE I - 3 SECTION SIGNAL HEAD ASSEMBLY
- TYPE II - 3 SECTION SIGNAL HEAD ASSEMBLY
- TYPE III - 3 SECTION (ALL AROWS) SIGNAL HEAD ASSEMBLY
- TYPE IV - 4 SECTION SIGNAL HEAD ASSEMBLY
- TYPE V - 5 SECTION SIGNAL HEAD ASSEMBLY
- TYPE VI - 4 SECTION (ALL ARROWS) SIGNAL HEAD ASSEMBLY
- TYPE VII - 4 SECTION SIGNAL HEAD ASSEMBLY
- PEDESTRIAN HYBRID BEACON - 3 SECTION SIGNAL HEAD ASSEMBLY
- VIBRATION MITIGATOR
- TRAFFIC SIGNAL CONTROLLER CABINET
- TYPE A JUNCTION BOX
- TYPE B JUNCTION BOX
- III — TYPE C JUNCTION BOX
- III-PC — TYPE III JUNCTION BOX (ATMS)
- SAME JUNCTION BOX USED FOR SIGNAL CIRCUIT
- PEDESTRIAN SIGNAL HEAD WITH PUSH BUTTON
- AUDIBLE PEDESTRIAN SIGNAL HEAD
- UNDERGROUND SERVICE PEDESTAL (USP)
- PREEMPTION CONTROL SYSTEM DETECTOR
- DIRECTIONAL ANTENNA
- VIDEO DETECTION CAMERA
- CCTV CAMERA
- RADAR DETECTION, DILEMMA ZONE
- RADAR DETECTION, STOP BAR
- LIDAR DETECTION

NOTES:

1. CONTACT SARATOGA SPRINGS CITY ENGINEERING TO SCHEDULE/COORDINATE ON THE FOLLOWING ITEMS:

   SIGNAL INSPECTION: 8 DAYS PRIOR TO TURN-ON CONTACT THE CITY TO REQUEST A SIGNAL INSPECTION.

   SIGNAL TURN-ON: PROVIDE 5 DAYS NOTICE TO SARATOGA SPRINGS CITY ENGINEERING.

2. REFER TO UDOT STD DWG SL SERIES FOR DETAILS.

REGISTERED PROFESSIONAL ENGINEER
HARRY JOSEPH PERRIN, JR.
11/5/2025
STATE OF UTAH

No.	REVISION	BY	DATE
1	FOR CITY REVIEW	JP	7/22/2025
2	SECOND SUBMITTAL	JP	9/5/2025
3	THIRD SUBMITTAL	JP	9/16/2025
4	FINAL SUBMITTAL	JP	11/5/2025

Project Number
Designed By JP
Drawn By JB
Checked By JP Date 11/5/2025

A-Trans Transportation Engineering
P.O. Box 521651 Salt Lake City, UT 84152
Phone: (801) 949-0348
Email: atrans@comcast.net

145 NORTH / SARATOGA ROAD

SIGNAL LEGEND

SG-S01

CONTRACTOR FURNISHED MATERIALS

	STRUCTURAL SUPPORT							POWER			CONDUIT							JUNCTION BOX			SIGN				
	MAST ARM SIGNAL POLE FOUNDATION - 3' X 12' (30' TO 65')	MAST ARM SIGNAL POLE FOUNDATION - 3' X 14' (70' TO 75')	MAST ARM SIGNAL POLE FOUNDATION - 4' X 14' (80' TO 85')	TRAFFIC SIGNAL/PED POLE FOUNDATION - 2' X 3'	HIGHWAY LUMINAIRE POLE FOUNDATION - 2.5' x 8'	CABINET FOUNDATION	UNDERGROUND SERVICE PEDESTAL FOUNDATION	UNDERGROUND SERVICE PEDESTAL	DUAL METER UNDERGROUND SERVICE PEDESTAL	POWER SOURCE (120 VOLT)	2" CONDUIT	2 1/2" CONDUIT	3" CONDUIT	2" CONDUIT WITH DETECTABLE PULL TAPE (FUTURE USE)	TRENCHING PAVED SURFACE	ADDITIONAL COST FOR ROCKY SOIL	DIRECTIONAL BORING	TYPE A	TYPE B	TYPE C	MAST ARM MOUNTED SIGN WITH MOUNTING BRACKETS	GALAXY ASTRO-BRAC, ARM CLAMP ONLY (96" CABLE)	ASTRO-BRAC GUSSETED TUBE ONLY (96" LENGTH)	SIGN CLAMP	SIGNAL POLE MOUNTED SIGN WITH MOUNTING BRACKETS
LOCATION	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	EA	EA	EA	EA	EA	EA
145 North Saratoga Road	2	2		4		1	1	1		1	1700		70	850			500		3	1	7	4	4	16	0
TOTALS	**2**	**2**	**0**	**4**	**0**	**1**	**1**	**1**	**0**	**1**	**$**	**$**	**$**	**$**	**$**	**$**	**$**	**0**	**3**	**1**	**7**	**4**	**4**	**16**	**0**

$ THESE ITEMS ARE CALCULATED BY THE CONTRACTOR

CONTRACTOR FURNISHED MATERIALS

	SIGNAL AND PEDESTRIAN							LIGHTING			GROUNDING			DETECTION		
	NO. 10 SINGLE CONDUCTOR STRANDED COPPER CABLE	7 CONDUCTOR NO. 14 CABLE (SIGNAL CIRCUIT)	7 CONDUCTOR NO. 14 CABLE (PED CIRCUIT)	4 CONDUCTOR NO. 14 CABLE (PUSH BUTTON CIR)	COUNTDOWN PEDESTRIAN SIGNAL HEAD	PUSH BUTTON AND SIGN ASSEMBLY	PUSH BUTTON FRAME STAND-OFF BRACKET	NO. 4 SINGLE CONDUCTOR CABLE	NO. 6 SINGLE CONDUCTOR CABLE	NO. 12 AWG WIRE WITH BLUE INSULATION	GROUND ROD	NO. 6 BARE COPPER GROUND WIRE	NO. 12 STRANDED GROUND WIRE (STOP BAR DETECTION)	CAT 6 CCTV CABLE	SMART SENSOR ADVANCE CABLE (SEE NOTE 5)	CAT6 GAMECHANGER
LOCATION	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	PAIR	LIN FT	LIN FT	LIN FT	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT
145 North Saratoga Road	140	1000	1300	1300	8	8	0			630	4	1600		65		360
TOTALS	**$**	**$**	**$**	**$**	**8**	**8**	**0**	**$**	**$**	**$**	**4**	**$**	**$**	**$**	**$**	**$**

$ THESE ITEMS ARE CALCULATED BY THE CONTRACTOR

NOTES:

1. SEE UDOT STD DWG SL SERIES AND SECTIONS 02892 AND 16530.
2. CONTACT REGION SIGNAL CREW (SEE SG-S01 FOR CONTACT INFORMATION) THREE (3) DAYS IN ADVANCE OF UNDERGROUND SERVICE PEDESTAL INSPECTION.
3. PLACE ALL CONDUIT IN SAME BORE SHOT WHERE POSSIBLE.
4. CONSTRUCT SIGNAL IN A MANNER TO AVOID DAMAGE TO EXISTING UTILITIES. ASSUME RESPONSIBILITY FOR ANY UTILITY DAMAGED BY CONSTRUCTION OPERATIONS. THE PLANS SHOW BURIED UTILITY LOCATIONS IN THEIR APPROXIMATE LOCATION ONLY.
5. SEE MANUFACTURER'S REQUIREMENTS FOR CABLE TYPE

REGISTERED PROFESSIONAL ENGINEER
No. 164302
JAMES JOSEPH PERKIN, JR.
11/5/2025
STATE OF UTAH

No.	REVISION	BY	DATE
1	FOR CITY REVIEW	JP	7/22/2025
2	SECOND SUBMITTAL	JP	9/5/2025
3	THIRD SUBMITTAL	JP	9/16/2025
4	FINAL SUBMITTAL	JP	11/5/2025

Project Number
Designed By JP
Drawn By JB
Checked By JP Date 11/5/2025

A-Trans Transportation Engineering
P.O. Box 521651 Salt Lake City, UT 84152
Phone: (801) 949-0348
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145 NORTH / SARATOGA ROAD

SIGNAL SCHEDULE

SG-S02

CITY FURNISHED MATERIALS

SIGNAL SCHEDULE

	TRAFFIC SIGNAL					POLES					MAST ARMS													ANCHOR BOLTS	
	CONTROLLER	M.M.U.	SIGNAL CABINET	BATTERY BACKUP (In Cabinet)	POWDER COATING	5'6" TRAFFIC / PED SIGNAL POLE (Slip Base)	11' TRAFFIC / PED SIGNAL POLE (Slip Base)	15' TRAFFIC / PED SIGNAL POLE (Slip Base)	TYPE A MAST ARM SIGNAL POLE (30' to 55')	TYPE B MAST ARM SIGNAL POLE (60' to 75')	30' CURVED MAST ARM	35' CURVED MAST ARM	40' CURVED MAST ARM	40' STRAIGHT MAST ARM (NON-STOCK)	45' CURVED MAST ARM	45' STRAIGHT MAST ARM (NON-STOCK)	50' CURVED MAST ARM	50' STRAIGHT MAST ARM (NON-STOCK)	55' CURVED MAST ARM	60' STRAIGHT MAST ARM	70' STRAIGHT MAST ARM	70' CURVED MAST ARM	VIBRATION MITIGATOR	2" x 66" ANCHOR BOLT (Mast Poles)	1" x 36" ANCHOR BOLT (Traffic Poles)
LOCATION	EA	EA	EA	EA	LUMP	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
145 North Saratoga Road	1	1	1				4		2	2			1				1				2		3	16	16
TOTALS	**1**	**1**	**1**	**0**	**0**	**0**	**4**	**0**	**2**	**2**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**2**	**0**	**3**	**16**	**16**

CITY FURNISHED MATERIALS

HIGHWAY LIGHTING SCHEDULE

	POLE / EXTENSIONS								ARMS				LED's		
	40' HIGHWAY LUMINAIRE POLE (Slip Base)	30' HIGHWAY LUMINAIRE POLE (Slip Base)	LUMINAIRE POLE CAP	25' LUMINAIRE EXTENSION (2' 6") (For Type A Mast Pole)	30' LUMINAIRE EXTENSION (7' 6") (For Type A Mast Pole)	40' LUMINAIRE EXTENSION (17' 6") (For Type A Mast Pole)	40' LUMINAIRE EXTENSION (12' 6") (For Type B Mast Pole)	VERTICAL LUMINAIRE EXTENSION	10' LUMINAIRE ARM	15' LUMINAIRE ARM	10' DUAL LUMINAIRE ARM (NON-STOCK)	15' DUAL LUMINAIRE ARM	MULTI-VOLT / TYPE-A (250w)	MULTI-VOLT / TYPE-B (400w)	MAST ARM MOUNTED LIGHTING LED LUMINAIRE (400w)
LOCATION	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
145 North Saratoga Road						1	1			2				2	2
TOTALS	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**2**	**0**	**0**	**0**	**2**	**2**

CITY FURNISHED MATERIALS

DETECTION SCHEDULE

RADAR DETECTION

	ADVANCE RADAR SENSOR (Dilemma Zone)	LIDAR DETECTOR (Mounting bracket, POE Splitter, Splitter Bracket)	SENSOR MOUNT	EPOXY SPLICE KIT	CCTV CAMERA	CLICK-650 RADAR INTERFACE (4 sensors)	ARC 6 RADAR INTERFACE (6 surge cards)
LOCATION	EA	EA	EA	EA	EA	EA	EA
145 North Saratoga Road	0	2	0	0	1		
TOTALS	**0**	**2**	**0**	**0**	**1**	**0**	**0**

AUDIBLE PED BUTTONS

	2-WIRE AUDIBLE PED BUTTON (For Full Intersection)	2-WIRE CENTRAL CONTROL UNIT	4-WIRE AUDIBLE PED BUTTON (For 1 or 2 Crossings)
LOCATION	EA	EA	EA
145 North Saratoga Road			
TOTALS	**0**	**0**	**0**

SIGNAL HEAD SCHEDULE

LED MODULES

	RED BALL	YELLOW BALL	GREEN BALL	RED ARROW	YELLOW ARROW	GREEN ARROW
LOCATION	EA	EA	EA	EA	EA	EA
145 North Saratoga Road	8	8	8	3	4	3
TOTALS	**8**	**8**	**8**	**3**	**4**	**3**

POLYMER SIGNAL HEADS

	1-SECTION SIGNAL HEAD	3-SECTION SIGNAL HEAD	4-SECTION SIGNAL HEAD	5-SECTION SIGNAL HEAD	PEDESTRIAN HYBRID BEACON SIGNAL HEAD (PHB/HAWK)	TYPE-7 SIGNAL HEAD (Dual-Red)	3 SECTION ASTRO-BRAC ASSEMBLY	4/5 SECTION ASTRO BRAC ASSEMBLY	MAST ARM EXTENSION KIT
LOCATION	EA	EA	EA	EA	EA	EA	EA	EA	EA
145 North Saratoga Road		10	1				10	1	
TOTALS	**0**	**10**	**1**	**0**	**0**	**0**	**10**	**1**	**0**

NOTES:

1. POLYMER SIGNAL HEAD ASSEMBLIES INCLUDE SIGNAL HEAD HOUSING, VISORS, AND LOUVERED BACK PLATE WITH RETROREFLECTIVE TAPE WHEN APPLICABLE.

PROFESSIONAL ENGINEER — REGISTERED — STATE OF UTAH
Jeffrey Joseph Perrin
No. 6362
JEFFREY JOSEPH PERRIN, JR.
11/5/2025

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Drawn By JB
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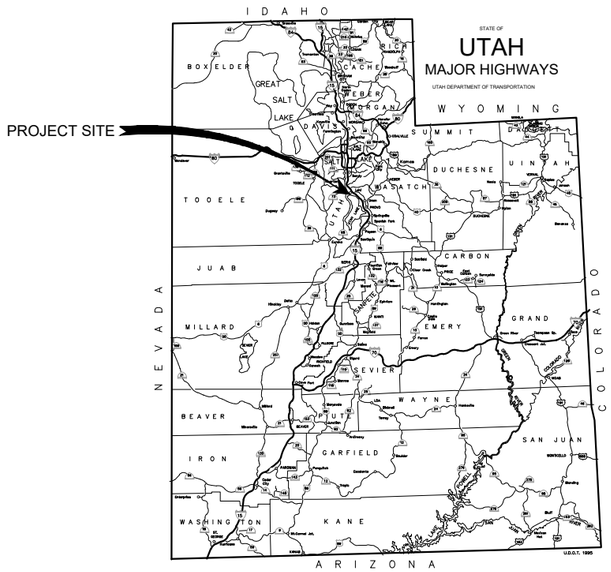
145 NORTH / SARATOGA ROAD

SIGNAL SCHEDULE

SG-S03



INTERSECTION IMPROVEMENT
TRAFFIC SIGNAL PLANS

145 NORTH / SARATOGA ROAD
SARATOGA SPRINGS, UTAH

INDEX TO SHEETS

SHEET NUMBER	DESCRIPTION
SG-01	TITLE SHEET
SG-02	SIGNAL PLAN SHEET
SG-03	DETECTOR SHEET
SG-04	CONDUIT SHEET
SG-05	CIRCUIT SHEET
SG-06	UTILITIES SHEET
SG-S01	LEGEND
SG-S02	SIGNAL SCHEDULE
SG-S03	SIGNAL SCHEDULE

NOTES:
THE SIGNAL DESIGN IS FOR THE NEW SIGNAL PROPOSED AT 145 NORTH ALONG SARATOGA ROAD WITH ALL STANDARDS AND SPECIFICATIONS AS PER UDOT'S CURRENT STANDARDS AND SPECIFICATIONS.
ALL SURFACE RESTORATION TO PRE-CONSTRUCTION CONDITION IS REQUIRED, INCLUDING BUT NOT LIMITED TO LANDSCAPING, SPRINKLERS AND SURFACE TREATMENTS.

REGISTERED PROFESSIONAL ENGINEER
No. 164862
HARRY JOSEPH PERRIN, JR.
11/5/2025
STATE OF UTAH

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145 NORTH / SARATOGA ROAD
TITLE SHEET

SG-01

SIGNAL SCHEDULE						
Pole Identification	Mast Arm Length	Luminaire Height	Luminaire Extension	Stationing	Offset	Comments
P1	70	40	15	204+68.9	LT 64.0	
P2				204+88.6	LT 38.0	PED POLE 11'
P3	50			204+97.8	RT 46.3	M.A. MOUNT LUMINAIRE
P4				204+71.1	RT 72.2	PED POLE 11'
P5	70			203+46.1	RT 68.1	M.A MOUNT LUMINAIRE
P6				203+29.5	RT 40.8	PED POLE 11'
P7	40	40	15	203+24.9	LT 33.9	
P8				203+48.9	LT 47.9	PED POLE 11'

DETAIL A
DS3-3 SINGLE STREET NAME SIGN
72" X 18", 1.50" RADIUS, 0.5" BORDER,
WHITE ON GREEN;
"145 North" C;

DETAIL B
DS3-3 SINGLE STREET NAME SIGN
96" X 18", 1.50" RADIUS, 0.5" BORDER,
WHITE ON GREEN;
"Saratoga Road" C;

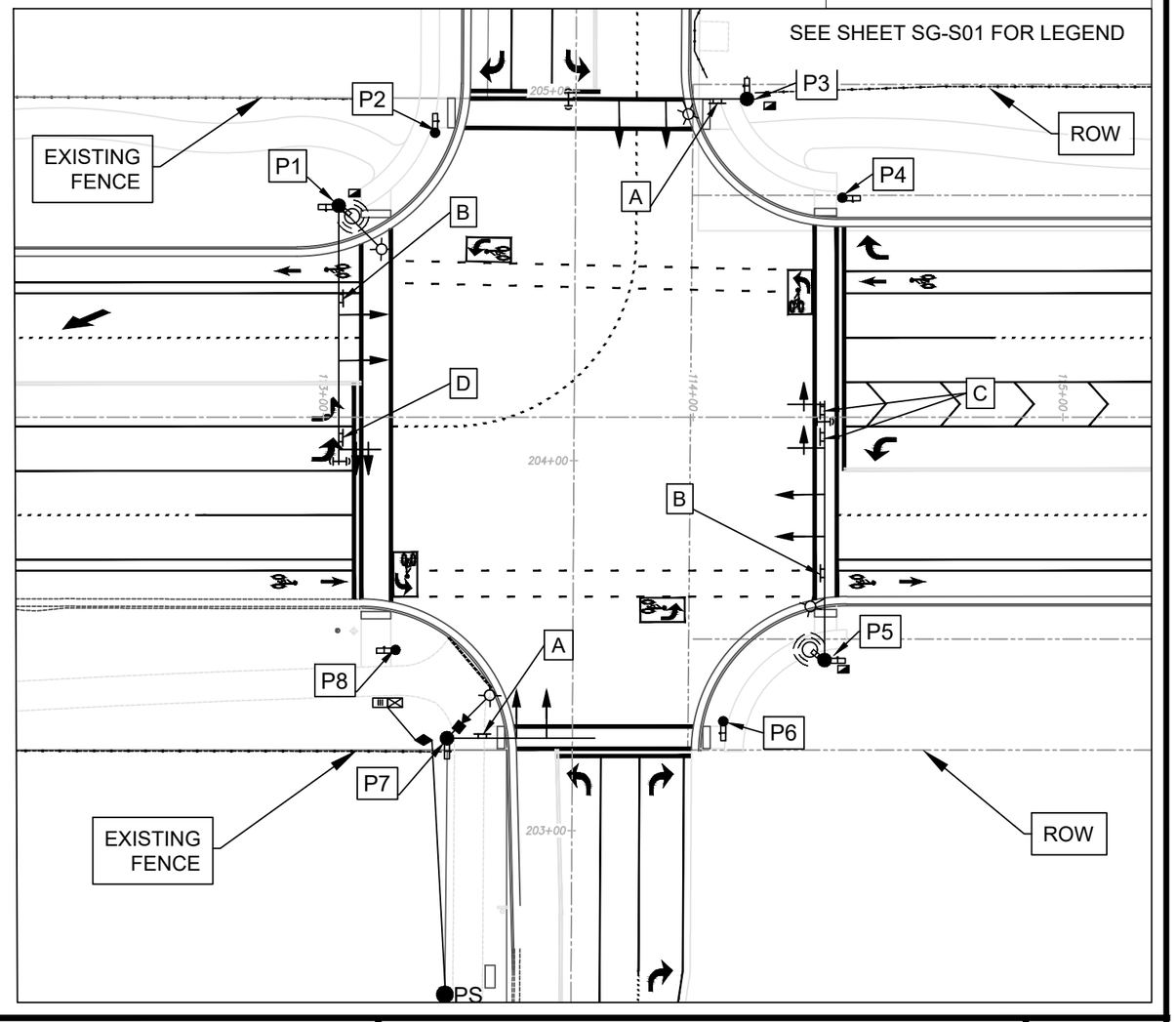
DETAIL C
R3-5L 30" X 36"
1.88" RADIUS, 1.75"
BORDER, 0.5"
INDENT BLACK ON WHITE

DETAIL D
RS10-21EX_30X42
1.88" RADIUS, 0.75" BORDER, 0.5"
INDENT BLACK ON WHITE; "LEFT
TURN" C; "YIELD" C; "ON" C;
"FLASHING" C;

NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT VERSION OF THE UDOT STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE PUBLIC RIGHT OF WAY.
3. ALL UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE BLUESTAKED BEFORE WORK BEGINS. BEFORE DIGGING CALL BLUESTAKES FOR THE LOCATION OF UNDRGROUND UTILITIES: 1-800-662-4111 OR 811 TO VERIFY AND PROTECT EXISTING UTILITIES. BORE ALL CONDUIT ROADWAY CROSSINGS UNDER EXISTING PAVEMENT.
4. EXISTING POWER SOURCE IS LOCATED APPROXIMATELY 95 FEET FROM THE SOUTHWEST CORNER AT A JUNCTION BOX WITH FACILITY POINT NUMBER "11405001.0190103-A" AS DIRECTED BY JACK PEHKONEN OF PACIFICORP. (801-756-1239)
5. ALL SIGNAL POLES TO BE SURROUNDED BY CONCRETE WITH CONCRETE FLATWORK EXTENDING TO THE SIDEWALK AND PEDESTRIAN RAMP. MUST BE FLUSH WITH GRADE AND MUST NOT EXCEED A 2% SLOPE.
6. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS AND SIGNS AS SHOWN. PUSH BUTTON MUST BE WITHIN 10 INCHES OF THE TURNING SPACE.
7. ALL SIGNS INSTALLED WILL BE HIGH INTENSITY GRADE PER UDOT STANDARD SPECIFICATION 02890, RETROREFLECTIVE SHEETING.
8. PROVIDE A 18.5 FT MINIMUM AND 21 FT MAXIMUM CLEARANCE FROM BOTTOM OF SIGNAL HEADS (INCLUDING BACK PLATES AND BRACKETS) TO TOP OF PAVEMENT.
9. REFER TO UDOT STD DWG SL SERIES FOR DETAILS.
10. VIBRATION MITIGATORS ARE REQUIRED ON P1, P3 AND P5 MAST ARM POLES AS SHOWN AND SHOULD BE PLACED AS CLOSE TO THE END OF THE MAST ARM AS POSSIBLE.
11. OVERHEAD LUMINAIRES TO BE PLACED ON P1 AND P7 AT A 45 DEGREE ANGLE.
12. MAST ARM LUMINAIRES TO BE MOUNTED ON P3 AND P5 TO THE SIDE OF THE ARM HANGING OUT OVER THE PEDESTRIAN RAMP. THIS IS DUE TO OVERHEAD POWER LINE CONFLICT ON THE EASTERN SIDE OF THE INTERSECTION.
13. CONTACT SARATOGA SPRINGS CITY TO SCHEDULE/COORDINATE SIGNAL INSPECTION.
14. STRIPING PLAN WAS PROVIDED BY CMT TECHNICAL SERVICES.

1:40 SCALE



ALL UTILITY AND CENTERLINE INFORMATION IS PROVIDED BY CMT TECHNICAL SERVICES AND MAY NOT BE REFLECTIVE OF ALL UTILITIES IN THE FIELD.

REGISTERED PROFESSIONAL ENGINEER
JARRY JOSEPH PERRIN, JR.
11/5/2025
STATE OF UTAH

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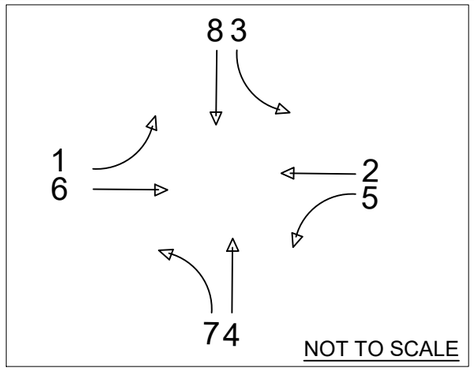
145 NORTH / SARATOGA ROAD
SIGNAL PLAN SHEET

SG-02

NEMA PHASE



LEGEND

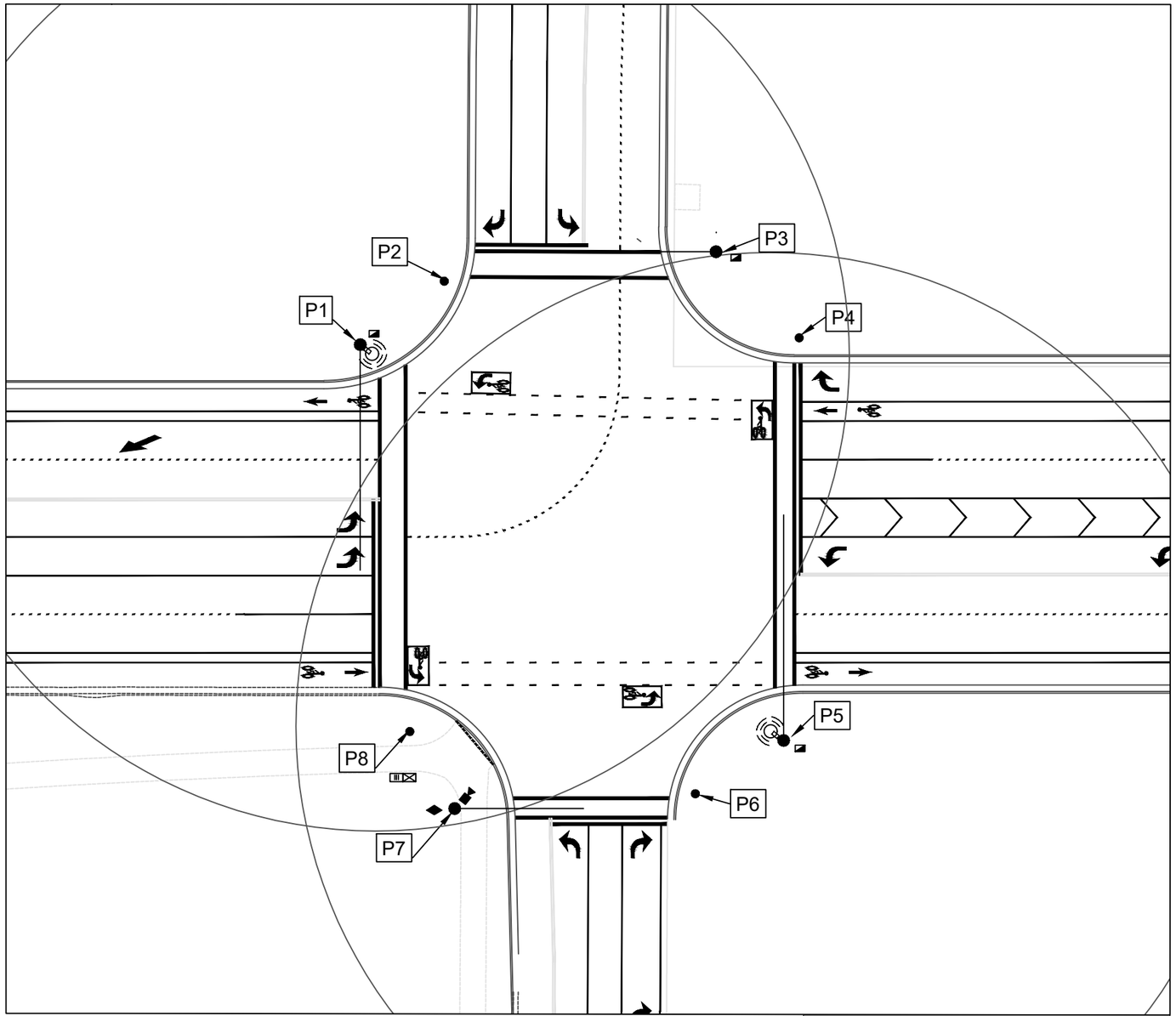
LIDAR SENSOR PLACEMENT

CCTV CAMERA

DETECTION NOTES:

1. INSTALL LIDAR DETECTORS PER UDOT AND MANUFACTURER'S STANDARDS.
2. LIDAR DETECTION TO BE INSTALLED ON POLES P1 AND P5 WITH GAMECHANGER CAT6 CABLE PER UDOT STANDARDS.
3. CCTV CAMERA TO BE MOUNTED UNDER LUMINAIRE ON P7.
4. CONTACT SARATOGA CITY ENGINEERING TO COORDINATE PROPER LIDAR DETECTION PLACEMENT WITH 2 DAYS ADVANCE NOTICE.

SPEED LIMIT:
145 NORTH = 35 MPH
SARATOGA ROAD = 35 MPH



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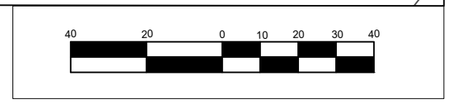

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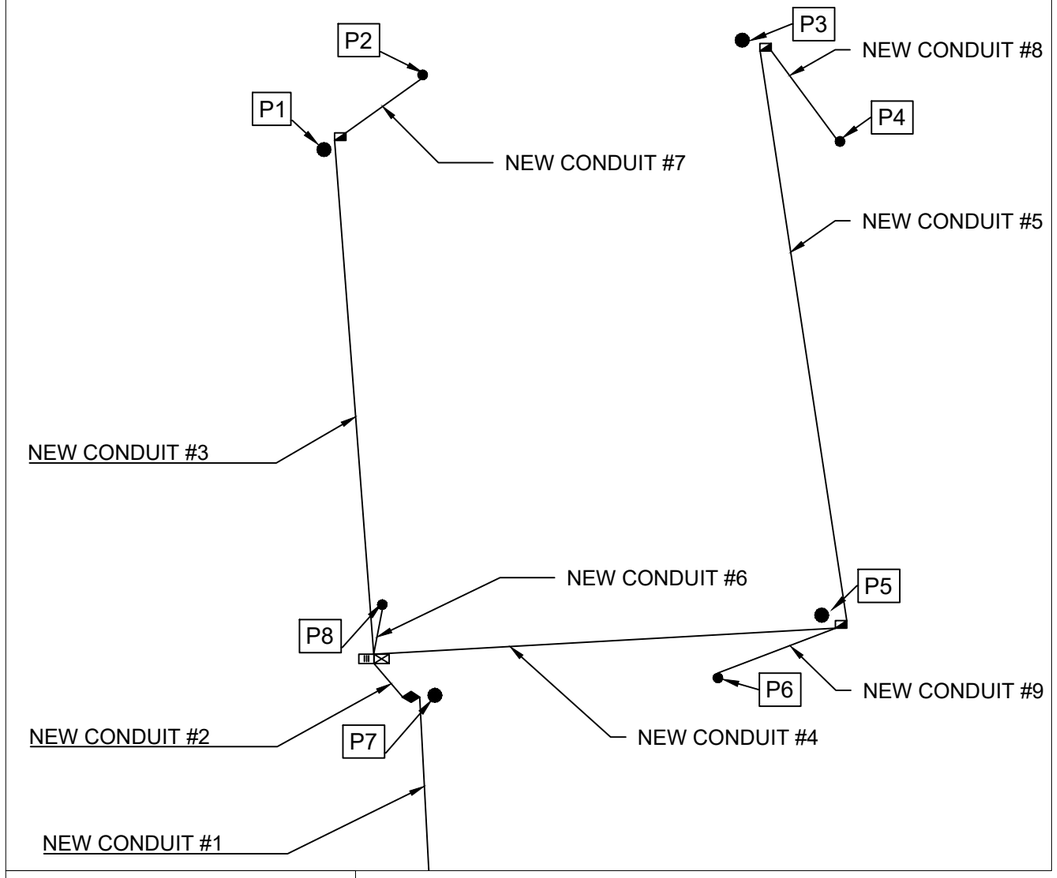
145 NORTH / SARATOGA ROAD

DETECTOR AND COMMUNICATION SHEET

SG-03

CONDUIT DIAGRAM



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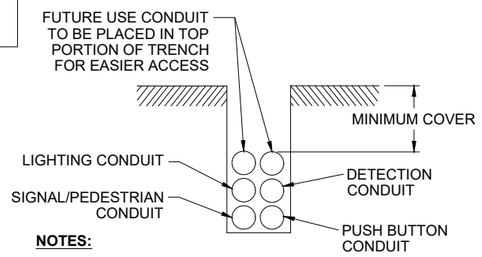

NOTES:

1. REFER TO UDOT 2025 STANDARD SPECIFICATIONS (13553) AND STANDARD DRAWINGS (SL-10) FOR MINIMUM CONDUIT DEPTH REQUIREMENTS.
2. MINIMUM OF 6 -2" CONDUITS ARE REQUIRED FOR EACH ROAD CROSSING LOCATION.
3. CONDUIT # 6-9 TO INCLUDE ONE 2" CONDUIT

BORING DETAIL

CONDUIT NOTES:

1. REFER TO UDOT STANDARD DRAWINGS AND TRENCHING DIAGRAM FOR PLACEMENT OF CIRCUITS.
2. PLACE ALL CONDUIT IN SAME BORE SHOT WHERE POSSIBLE.
3. MAINTAIN A MINIMUM OF 1 FOOT CLEARANCE BETWEEN CONDUIT AND ALL UTILITIES.
4. FIELD VERIFY CONDUIT AND CABLING QUANTITIES BEFORE ORDERING.
5. CONDUIT #1 TO INCLUDE ONE 3" CONDUIT WITH DETECTABLE PULL TAPE FOR SIGNAL POWER.
6. CONDUIT #2 TO INCLUDE ONE 2" CONDUIT.
7. CONDUIT CROSSINGS #3, #4 AND #5 TO INCLUDE SIX 2" CONDUIT.
8. CONDUIT CROSSING #3 TO ALSO INCLUDE A 3" COMMUNICATION CONDUIT IN THE DIRECTIONAL BORE CONNECTING THE TYPE C JUNCTION BOX ON THE SOUTHWEST CORNER TO THE NEW COMMUNICATION BOX ON THE NORTHWEST CORNER.
9. CONDUIT #6-9 TO INCLUDE ONE 2" CONDUIT. UDOT STANDARD DRAWING SL-3
10. CONDUIT FROM JUNCTION BOXES TO POLE FOUNDATIONS TO MEET UDOT STANDARD DRAWINGS (SL SERIES) SL-1, SL-3, SL-10
11. SURFACE RESTORATION INCLUDING BUT NOT LIMITED TO SPRINKLERS, SIDEWALK, LANDSCAPING AND PAVING REQUIRED FOR ANY DAMAGE CAUSED BY INSTALLATION OF CONDUIT.

CIRCUIT NOTES:

POWER CIRCUIT
- TWO NO.10 SINGLE CONDUCTOR STRANDED COPPER CABLE TYPE RHH-USE2-RHW2 XLP OR APPROVED EQUIVALENT
- 6 AWG BARE SOLID COPPER GROUND WIRE
- IN 2" PVC CONDUIT (POWER)

SIGNAL CIRCUIT
- 7 CONDUCTOR 14 AWG, STRANDED CABLE, IMSA 20-1 (120 VOLTS)
- 6 AWG BARE SOLID COPPER GROUND WIRE
- IN 2" PVC CONDUIT (SIGNAL)

PEDESTRIAN PUSH BUTTON CIRCUIT
- 4 CONDUCTOR NO.14 AWG, STRANDED CABLE, IMSA 20-1 (LOW VOLTAGE)
- IN 2" PVC CONDUIT (PUSH BUTTON)

PEDESTRIAN SIGNAL HEAD CIRCUIT
- 7 CONDUCTOR NO. 14 AWG, STRANDED CABLE, IMSA 20-1 (120 VOLTS)
- NO. 6 AWG BARE SOLID COPPER GROUND IF NO SIGNAL CIRCUIT IS PRESENT IN CONDUIT.
- IN 2" PVC CONDUIT (SAME CONDUIT AT SIGNAL CIRCUIT)

LIGHTING CIRCUIT
- TWO NO. 12 SINGLE CONDUCTOR BLUE INSULATED, STRANDED COPPER CABLE TYPE RHH-USE2-RHW2 XLP
- NO. 6 AWG BARE SOLID COPPER GROUND WIRE
- IN 2" PVC CONDUIT (LIGHTING)

LIDAR SENSOR CIRCUIT
- CAT6 GAMECHANGER

FUTURE USE CIRCUIT
- DETECTABLE PULL TAPE IN 2" CONDUIT

REGISTERED PROFESSIONAL ENGINEER
JOSEPH HARRY PERRIN, JR.
11/5/2025
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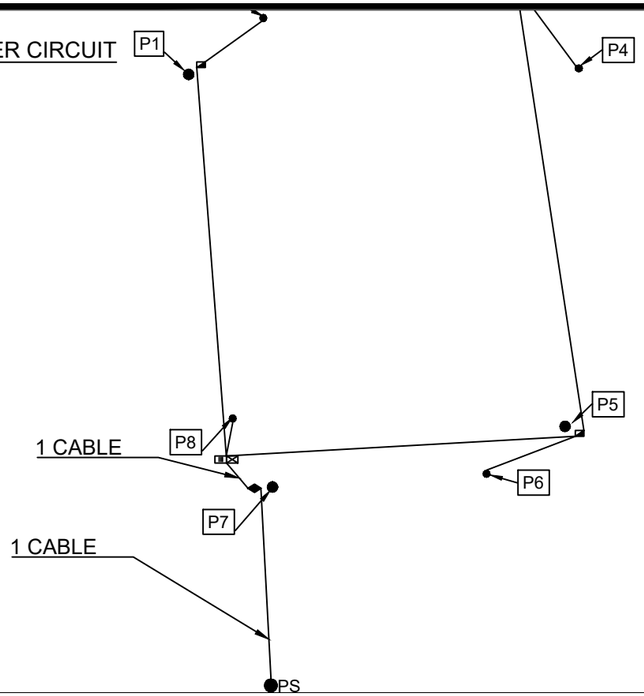
145 NORTH / SARATOGA ROAD

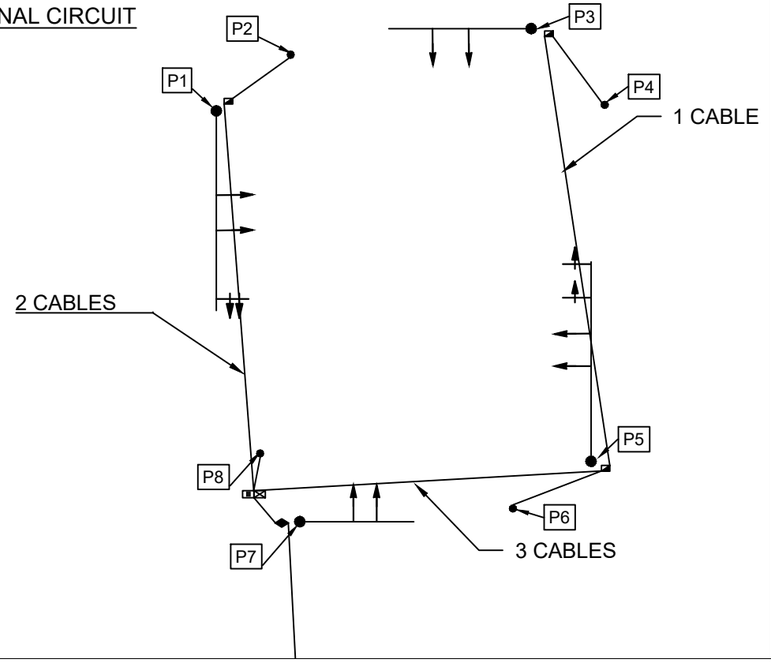
CONDUIT SHEET

SG-04

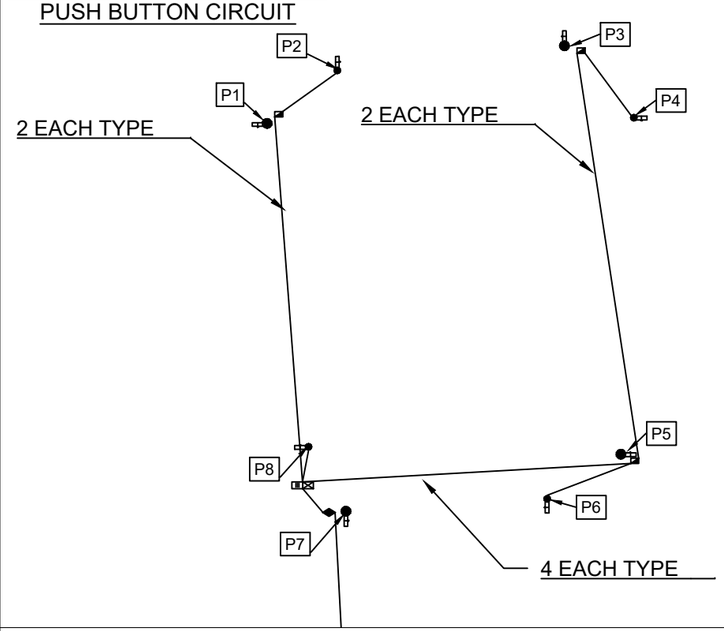
POWER CIRCUIT



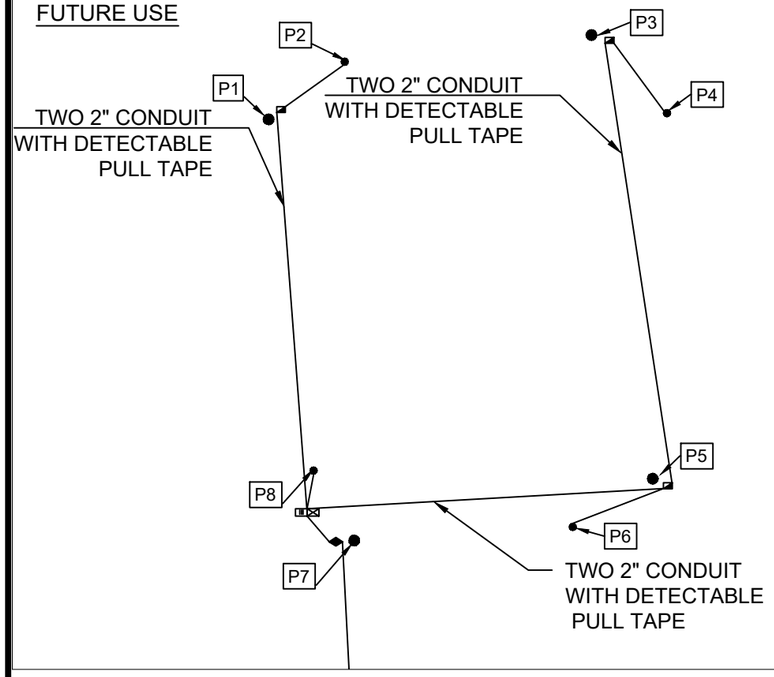
SIGNAL CIRCUIT



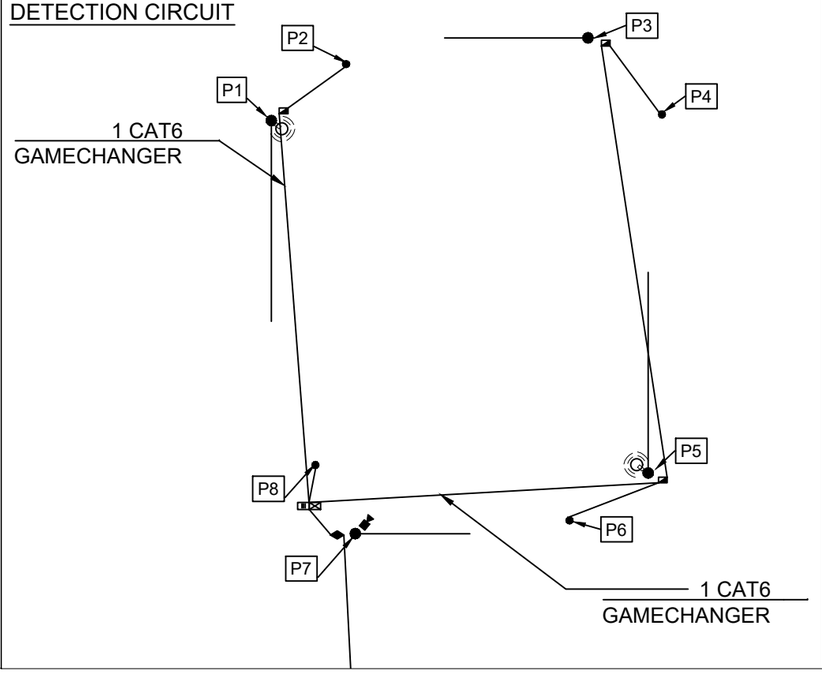
PEDESTRIAN SIGNAL HEAD & PUSH BUTTON CIRCUIT



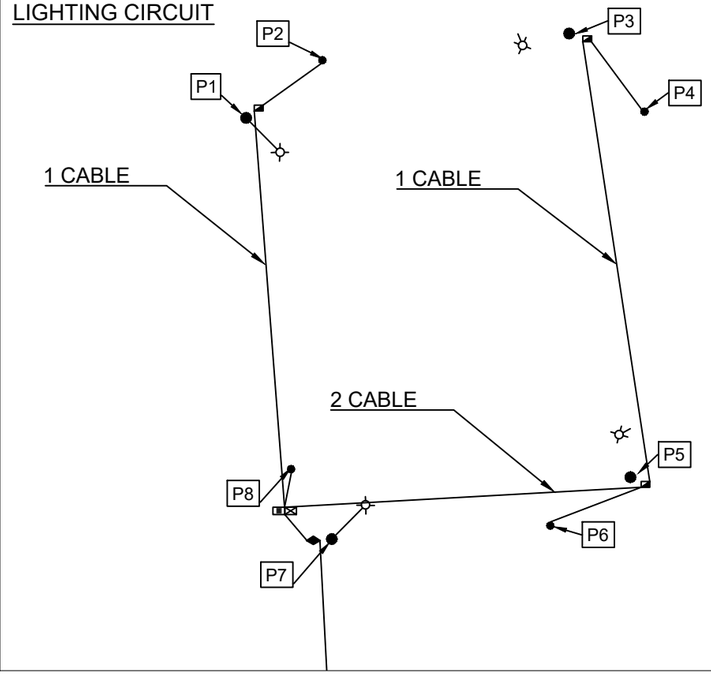
FUTURE USE



DETECTION CIRCUIT



LIGHTING CIRCUIT



NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
JOSEPH PERRIN
No. 6802
STATE OF UTAH
JOSEPH PERRIN, JR.
11/5/2025

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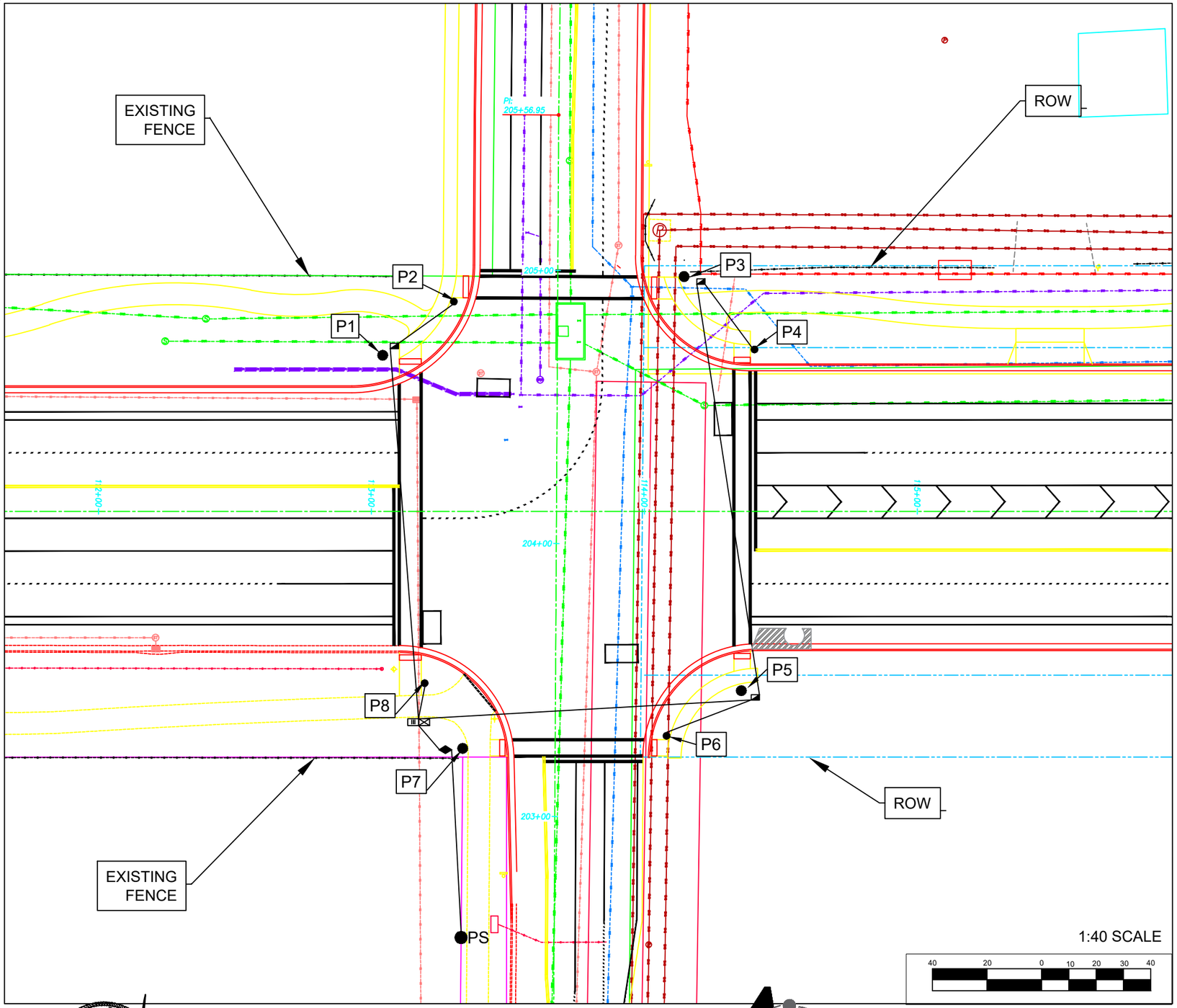
145 NORTH / SARATOGA ROAD

CIRCUIT SHEET

SG-05



CONTROL

ALL PROVIDED STATIONING IS BASED ON THE CENTERLINE INFORMATION PROVIDED BY CMT TECHNICAL SERVICES. ALL UTILITY INFORMATION IS ALSO PROVIDED BY CMT TECHNICAL SERVICES AND MAY NOT BE REFLECTIVE OF ALL UTILITIES IN THE FIELD.

NOTES

PLANNED AND EXISTING SEWERS, WATER MAINS, TELEPHONE CONDUITS, ELECTRICAL CABLES, AND OTHER UNDERGROUND STRUCTURES ARE SHOWN ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER. IT IS EXPECTED THAT THERE MAY BE MOVEMENT IN THE DESIGN LOCATION AND QUANTITIES OF UTILITIES AND STRUCTURES SHOWN. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR BUT IS NOT GUARANTEED TO BE EITHER CORRECT OR COMPLETE AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL MAKE SUCH INVESTIGATIONS AS HE SHALL DEEM NECESSARY, AHEAD OF EXCAVATION, TO LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES SO THAT THEY WILL NOT BE ACCIDENTALLY DAMAGED BY HIS CONSTRUCTION OPERATION. SHOULD A CONFLICT OCCUR, PLEASE CONTACT THE GOVERNING AGENCIES AND THE ENGINEER IMMEDIATELY TO RESOLVE.

ALL SIGNAL AND TRAFFIC POLE LOCATIONS TO BE POTHOLED PRIOR TO CONSTRUCTION TO CONFIRM NO UNDERGROUND UTILITY CONFLICT. BEFORE DIGGING CALL BLUESTAKES FOR THE LOCATION OF UNDERGROUND UTILITIES: 1-800-662-4111 OR 811

SOME OF THE OVERHEAD POWER LINES ON THE EAST SIDE OF THE INTERSECTION WILL NEED TO BE RELOCATED TO COMPLY WITH ROCKY MOUNTAIN POWER'S REQUIREMENTS OF 10 FOOT RADIAL CLEARANCE FROM ANY SIGNAL EQUIPMENT. THIS IS ALSO WHY NO OVERHEAD LUMINAIRES ARE SHOWN ON THE EASTERN SIDE SIGNAL POLES. UNDER ARM LUMINAIRES ARE ADDED INSTEAD.

N

REGISTERED PROFESSIONAL ENGINEER
JAMES JOSEPH PERKIN, JR.
11/5/2025
STATE OF UTAH

No.	REVISION	BY	DATE
1	FOR CITY REVIEW	JP	7/22/2025
2	SECOND SUBMITTAL	JP	9/5/2025
3	THIRD SUBMITTAL	JP	9/16/2025
3	FINAL SUBMITTAL	JP	11/5/2025

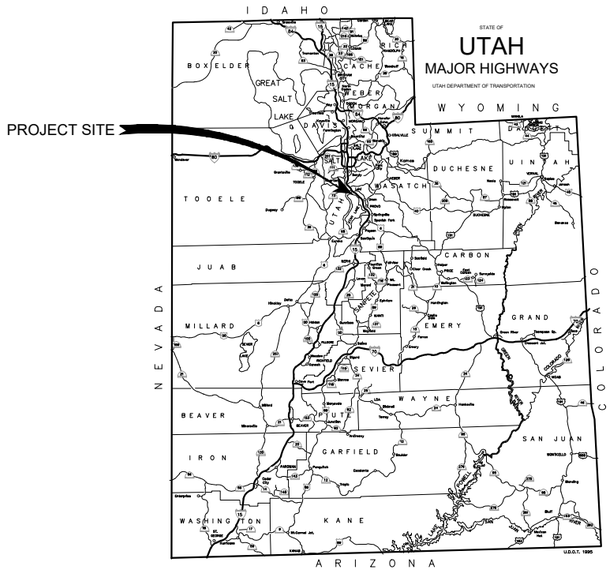
Project Number
Designed By JP
Drawn By JB
Checked By JP Date 11/5/2025

A-Trans Transportation Engineering
P.O. Box 521651 Salt Lake City, UT 84152
Phone: (801) 949-0348
Email: atrans@comcast.net

145 NORTH / SARATOGA ROAD

UTILITIES AND CONTROL SHEET

SG-06



INTERSECTION IMPROVEMENT
TRAFFIC SIGNAL PLANS

1900 SOUTH / 1100 WEST
SARATOGA SPRINGS, UTAH

INDEX TO SHEETS	
SHEET NUMBER	DESCRIPTION
SG-01	TITLE SHEET
SG-02	SIGNAL PLAN SHEET
SG-03	DETECTOR SHEET
SG-04	CONDUIT SHEET
SG-05	CIRCUIT SHEET
SG-06	UTILITIES SHEET
SG-S01	LEGEND
SG-S02	SIGNAL SCHEDULE
SG-S03	SIGNAL SCHEDULE

NOTES:
THE SIGNAL DESIGN IS FOR THE NEW SIGNAL PROPOSED AT 1100 WEST ALONG 1900 SOUTH WITH ALL STANDARDS AND SPECIFICATIONS PER UDOT'S CURRENT STANDARDS AND SPECIFICATIONS.
ALL SURFACE RESTORATION TO PRE-CONSTRUCTION CONDITION IS REQUIRED, INCLUDING BUT NOT LIMITED TO LANDSCAPING, SPRINKLERS AND SURFACE TREATMENTS.

DRAFT
NOT FOR
CONSTRUCTION

No.	REVISION	BY	DATE
1	FIRST SUBMITTAL	JP	2/26/2026

Project Number
Designed By JP
Drawn By JB
Checked By JP Date 2/26/2026

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1900 SOUTH / 1100 WEST

TITLE SHEET

SG-01

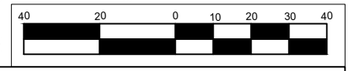
SIGNAL SCHEDULE							
Pole Identification	Mast Arm Length	Mast Arm Length	Luminaire Height	Luminaire Extension	Stationing	Offset	Comments
P1					168+71.7	LT 61.8	PED POLE 11'
P2	50 TO N	45 TO W	40	15 TO N	168+50.9	RT 51.2	DUAL MAST ARM POLE
P3	75		40	15	167+82.2	RT 51.5	MAST ARM SIGNAL POLE

DETAIL A
DS3-3 SINGLE STREET NAME SIGN
72" X 18", 1.50" RADIUS, 0.5" BORDER, WHITE ON GREEN;
"1100 West" C;

DETAIL B
DS3-3 SINGLE STREET NAME SIGN
72" X 18", 1.50" RADIUS, 0.5" BORDER, WHITE ON GREEN;
"1900 South" C;

DETAIL C
RS10-21EX_30X42
1.88" RADIUS, 0.75" BORDER, 0.5" INDENT BLACK ON WHITE; "LEFT TURN" C; "YIELD" C; "ON" C; "FLASHING" C;

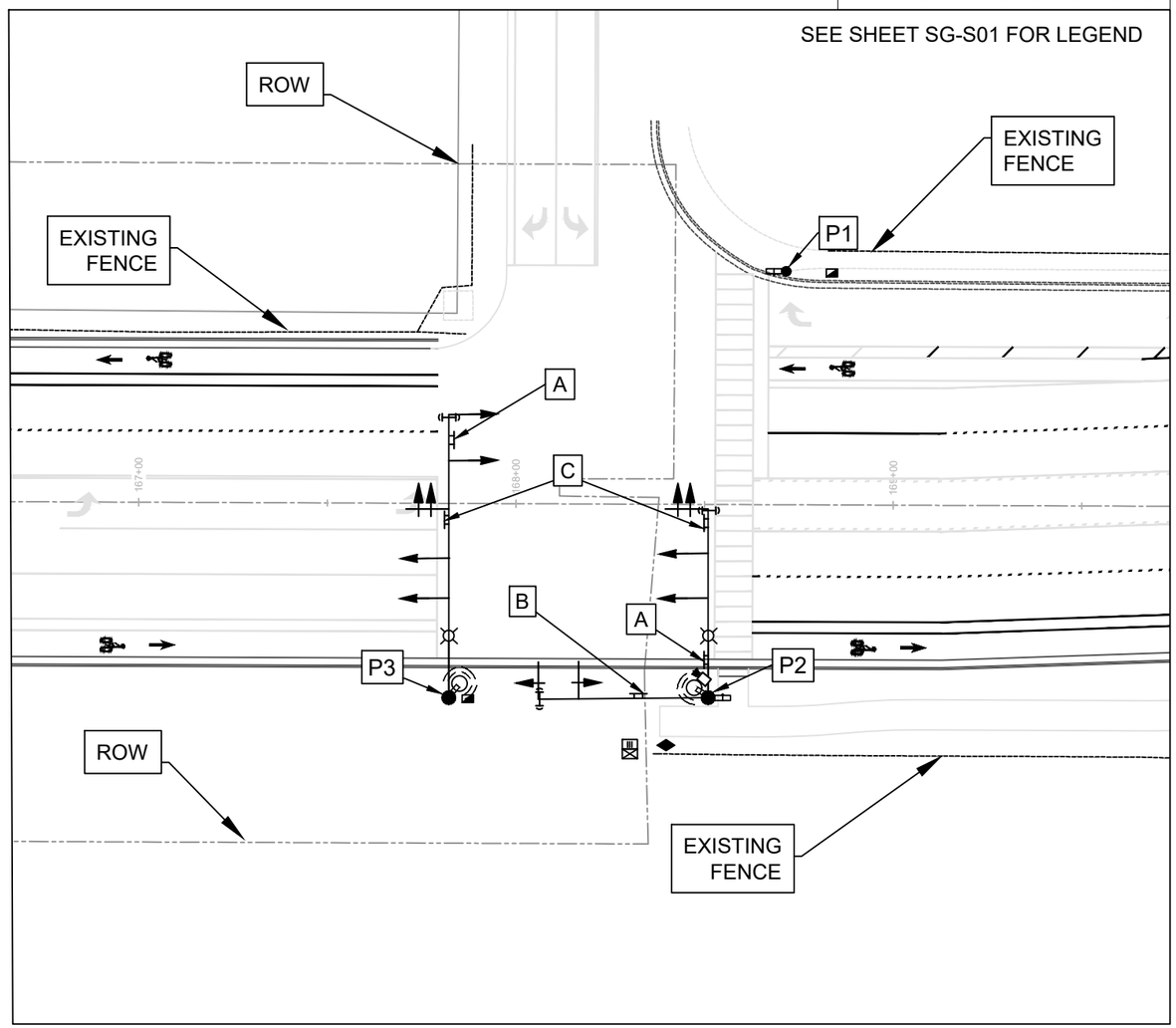
1:40 SCALE



NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT VERSION OF THE UDOT STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE PUBLIC RIGHT OF WAY.
3. ALL UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE BLUESTAKED BEFORE WORK BEGINS. BEFORE DIGGING CALL BLUESTAKES FOR THE LOCATION OF UNDRGROUND UTILITIES: 1-800-662-4111 OR 811 TO VERIFY AND PROTECT EXISTING UTILITIES. BORE ALL CONDUIT ROADWAY CROSSINGS UNDER EXISTING PAVEMENT.
4. EXISTING POWER SOURCE IS TO BE DETERMINED. AS DIRECTED BY JACK PEHKONEN OF PACIFICORP. (801-756-1239)
5. ALL SIGNAL POLES TO BE SURROUNDED BY CONCRETE WITH CONCRETE FLATWORK EXTENDING TO THE SIDEWALK AND PEDESTRIAN RAMP. MUST BE FLUSH WITH GRADE AND MUST NOT EXCEED A 2% SLOPE.
6. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS AND SIGNS AS SHOWN. PUSH BUTTON MUST BE WITHIN 10 INCHES OF THE TURNING SPACE.
7. ALL SIGNS INSTALLED WILL BE HIGH INTENSITY GRADE PER UDOT STANDARD SPECIFICATION 02890, RETROREFLECTIVE SHEETING.
8. PROVIDE A 18.5 FT MINIMUM AND 21 FT MAXIMUM CLEARANCE FROM BOTTOM OF SIGNAL HEADS (INCLUDING BACK PLATES AND BRACKETS) TO TOP OF PAVEMENT.
9. REFER TO UDOT STD DWG SL SERIES FOR DETAILS.
10. VIBRATION MITIGATORS ARE REQUIRED ON BOTH MAST ARM POLES ON P2, AND P3 MAST ARM POLES AS SHOWN AND SHOULD BE PLACED AS CLOSE TO THE END OF THE MAST ARM AS POSSIBLE.
11. OVERHEAD LUMINAIRES TO BE PLACED ON P2 AND P3.
12. CONTACT SARATOGA SPRINGS CITY TO SCHEDULE/COORDINATE SIGNAL INSPECTION.
13. STRIPING PLAN WAS PROVIDED BY CMT TECHNICAL SERVICES.

SEE SHEET SG-S01 FOR LEGEND



ALL UTILITY AND CENTERLINE INFORMATION IS PROVIDED BY CMT TECHNICAL SERVICES AND MAY NOT BE REFLECTIVE OF ALL UTILITIES IN THE FIELD.

DRAFT
NOT FOR CONSTRUCTION

No.	REVISION	BY	DATE
1	FIRST SUBMITTAL	JP	2/26/2026

Project Number
Designed By JP
Drawn By JB
Checked By JP Date 2/26/2026

A–Trans Transportation Engineering
P.O. Box 521651 Salt Lake City, UT 84152
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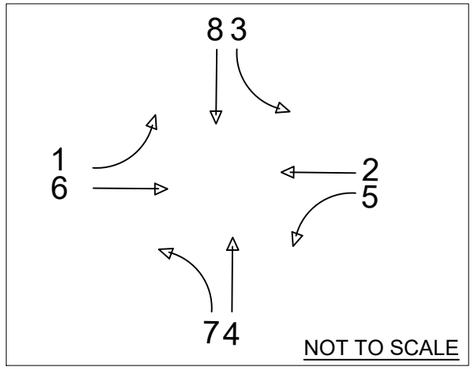
1900 SOUTH / 1100 WEST

SIGNAL PLAN SHEET

SG-02

NEMA PHASE



LEGEND

LIDAR SENSOR PLACEMENT

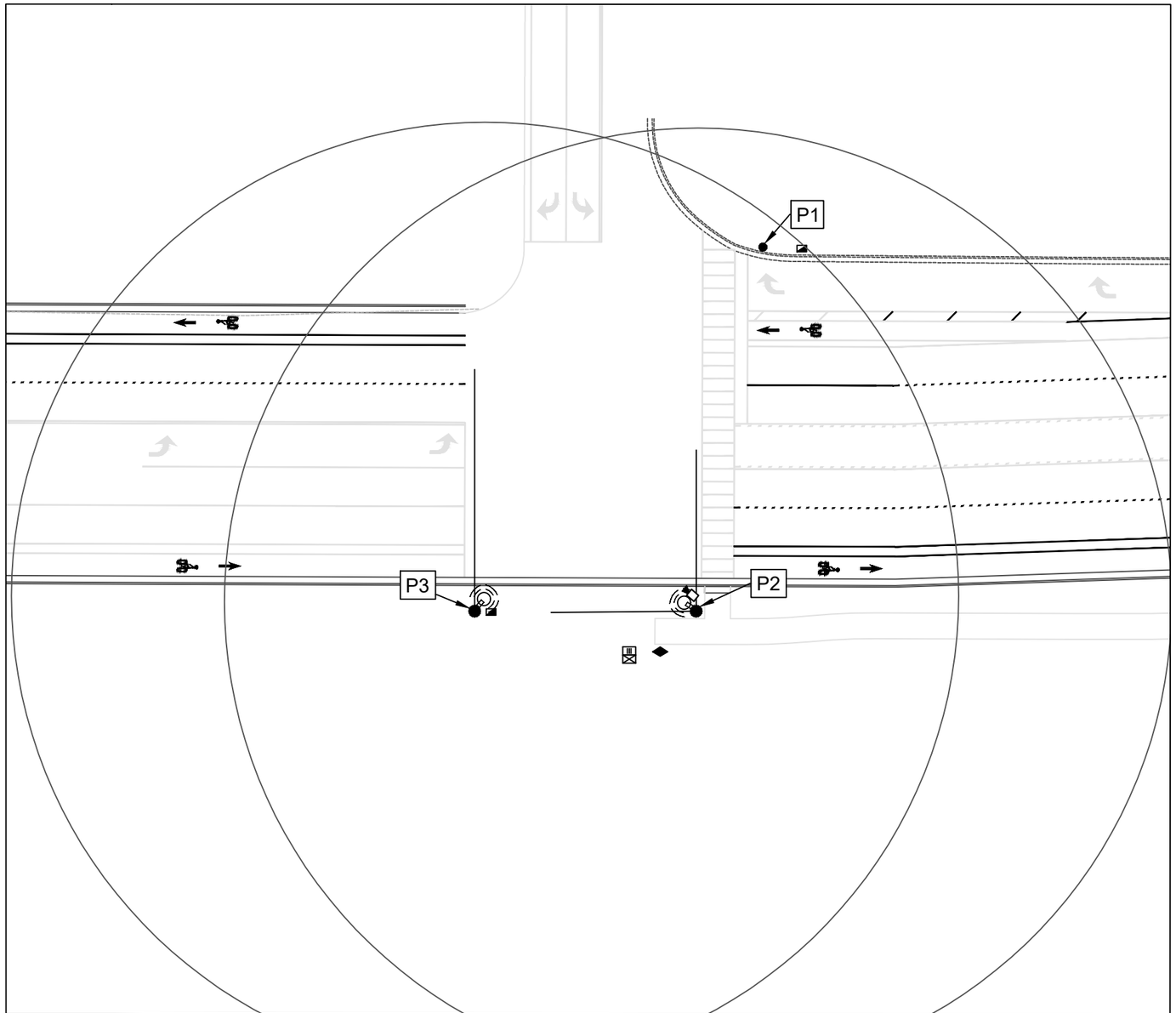
CCTV CAMERA

DETECTION NOTES:

1. INSTALL LIDAR DETECTORS PER UDOT AND MANUFACTURER'S STANDARDS.
2. LIDAR DETECTION TO BE INSTALLED ON POLES P2 AND P3 WITH GAMECHANGER CAT6 CABLE PER UDOT STANDARDS.
3. CCTV CAMERA TO BE MOUNTED UNDER LUMINAIRE ON P2.
4. CONTACT SARATOGA CITY ENGINEERING TO COORDINATE PROPER LIDAR DETECTION PLACEMENT WITH 2 DAYS ADVANCE NOTICE.

SPEED LIMIT:
1900 SOUTH = 35 MPH

N



1:40 SCALE

40 20 0 10 20 30 40

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CONSTRUCTION

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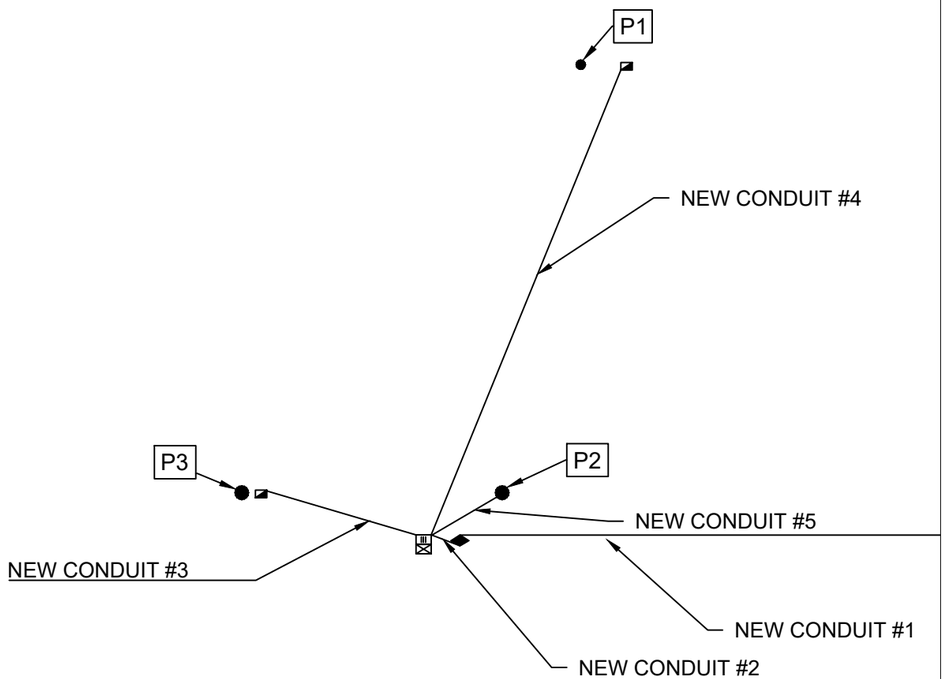
1900 SOUTH / 1100 WEST

DETECTION AND COMMUNICATION SHEET

SG-03

CONDUIT DIAGRAM



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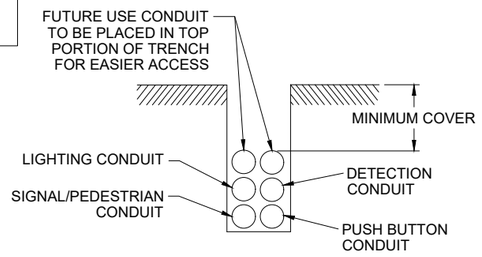

NOTES:

1. REFER TO UDOT 2025 STANDARD SPECIFICATIONS (13553) AND STANDARD DRAWINGS (SL-10) FOR MINIMUM CONDUIT DEPTH REQUIREMENTS.
2. MINIMUM OF SIX 2" CONDUITS ARE REQUIRED FOR EACH ROAD CROSSING LOCATION.
3. CONDUIT #5 TO INCLUDE THREE 2" CONDUIT.

BORING DETAIL

CONDUIT NOTES:

1. REFER TO UDOT STANDARD DRAWINGS AND TRENCHING DIAGRAM FOR PLACEMENT OF CIRCUITS.
2. PLACE ALL CONDUIT IN SAME BORE SHOT WHERE POSSIBLE.
3. MAINTAIN A MINIMUM OF 1 FOOT CLEARANCE BETWEEN CONDUIT AND ALL UTILITIES.
4. FIELD VERIFY CONDUIT AND CABLING QUANTITIES BEFORE ORDERING.
5. CONDUIT #1 TO INCLUDE ONE 3" CONDUIT WITH DETECTABLE PULL TAPE FOR SIGNAL POWER.
6. CONDUIT #2 TO INCLUDE ONE 2" CONDUIT.
7. CONDUIT CROSSINGS #3 AND #4 TO INCLUDE SIX 2" CONDUITS.
8. CONDUIT #5 TO INCLUDE THREE 2" CONDUITS.
9. A FIBER DROP FROM THE 1D FIBER BANK IS NEEDED INTO THE SIGNAL CABINET.
10. CONDUIT FROM JUNCTION BOXES TO POLE FOUNDATIONS TO MEET UDOT STANDARD DRAWINGS (SL SERIES) SL-1, SL-3, SL-10
11. SURFACE RESTORATION INCLUDING BUT NOT LIMITED TO SPRINKLERS, SIDEWALK, LANDSCAPING AND PAVING REQUIRED FOR ANY DAMAGE CAUSED BY INSTALLATION OF CONDUIT.

CIRCUIT NOTES:

POWER CIRCUIT
- TWO NO.10 SINGLE CONDUCTOR STRANDED COPPER CABLE TYPE RHH-USE2-RHW2 XLP OR APPROVED EQUIVALENT
- 6 AWG BARE SOLID COPPER GROUND WIRE
- IN 2" PVC CONDUIT (POWER)

SIGNAL CIRCUIT
- 7 CONDUCTOR 14 AWG, STRANDED CABLE, IMSA 20-1 (120 VOLTS)
- 6 AWG BARE SOLID COPPER GROUND WIRE
- IN 2" PVC CONDUIT (SIGNAL)

PEDESTRIAN PUSH BUTTON CIRCUIT
- 4 CONDUCTOR NO.14 AWG, STRANDED CABLE, IMSA 20-1 (LOW VOLTAGE)
- IN 2" PVC CONDUIT (PUSH BUTTON)

PEDESTRIAN SIGNAL HEAD CIRCUIT
- 7 CONDUCTOR NO. 14 AWG, STRANDED CABLE, IMSA 20-1 (120 VOLTS)
- NO. 6 AWG BARE SOLID COPPER GROUND IF NO SIGNAL CIRCUIT IS PRESENT IN CONDUIT.
- IN 2" PVC CONDUIT (SAME CONDUIT AT SIGNAL CIRCUIT)

LIGHTING CIRCUIT
- TWO NO. 12 SINGLE CONDUCTOR BLUE INSULATED, STRANDED COPPER CABLE TYPE RHH-USE2-RHW2 XLP
- NO. 6 AWG BARE SOLID COPPER GROUND WIRE
- IN 2" PVC CONDUIT (LIGHTING)

LIDAR SENSOR CIRCUIT
- CAT6 GAMECHANGER

FUTURE USE CIRCUIT
- DETECTABLE PULL TAPE IN 2" CONDUIT

DRAFT
NOT FOR CONSTRUCTION

No.	REVISION	BY	DATE
1	FIRST SUBMITTAL	JP	2/26/2026

Project Number
Designed By JP
Drawn By JB
Checked By JP Date 2/26/2026

A–Trans Transportation Engineering
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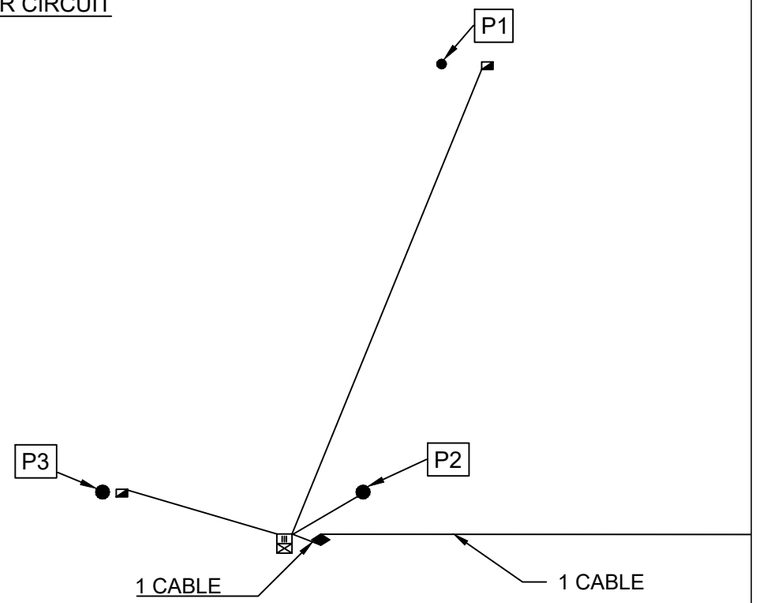
1900 SOUTH / 1100 WEST

CONDUIT SHEET

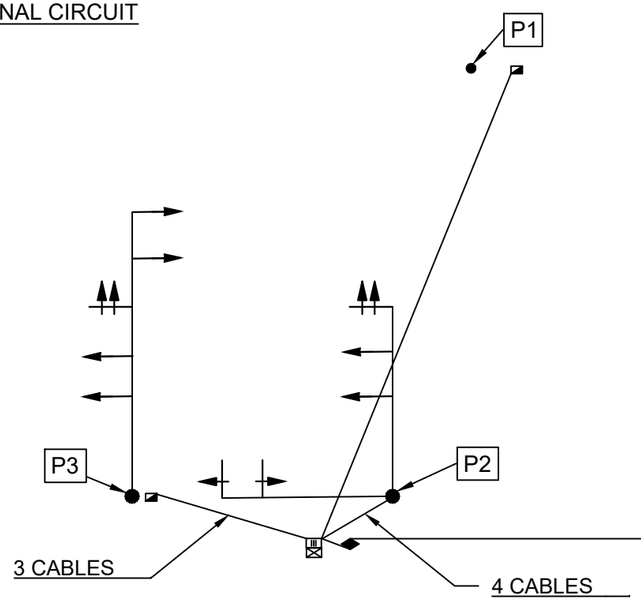
SG-04

POWER CIRCUIT



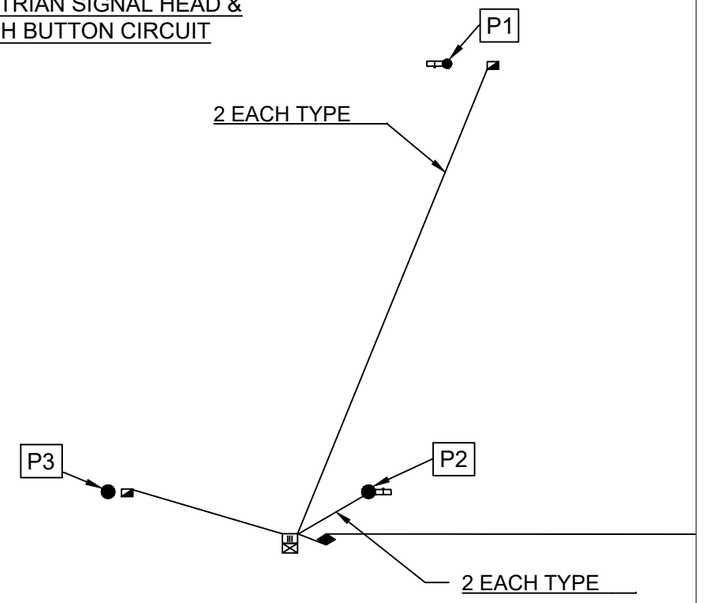
1 - 40 SCALE

SIGNAL CIRCUIT



1 - 40 SCALE

PEDESTRIAN SIGNAL HEAD & PUSH BUTTON CIRCUIT



1 - 40 SCALE

FUTURE USE

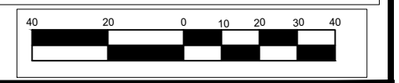
1 - 40 SCALE

DETECTION CIRCUIT

1 - 40 SCALE

LIGHTING CIRCUIT

1 - 40 SCALE



DRAFT
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CONSTRUCTION

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1	FIRST SUBMITTAL	JP	2/26/2026

Project Number
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Drawn By JB
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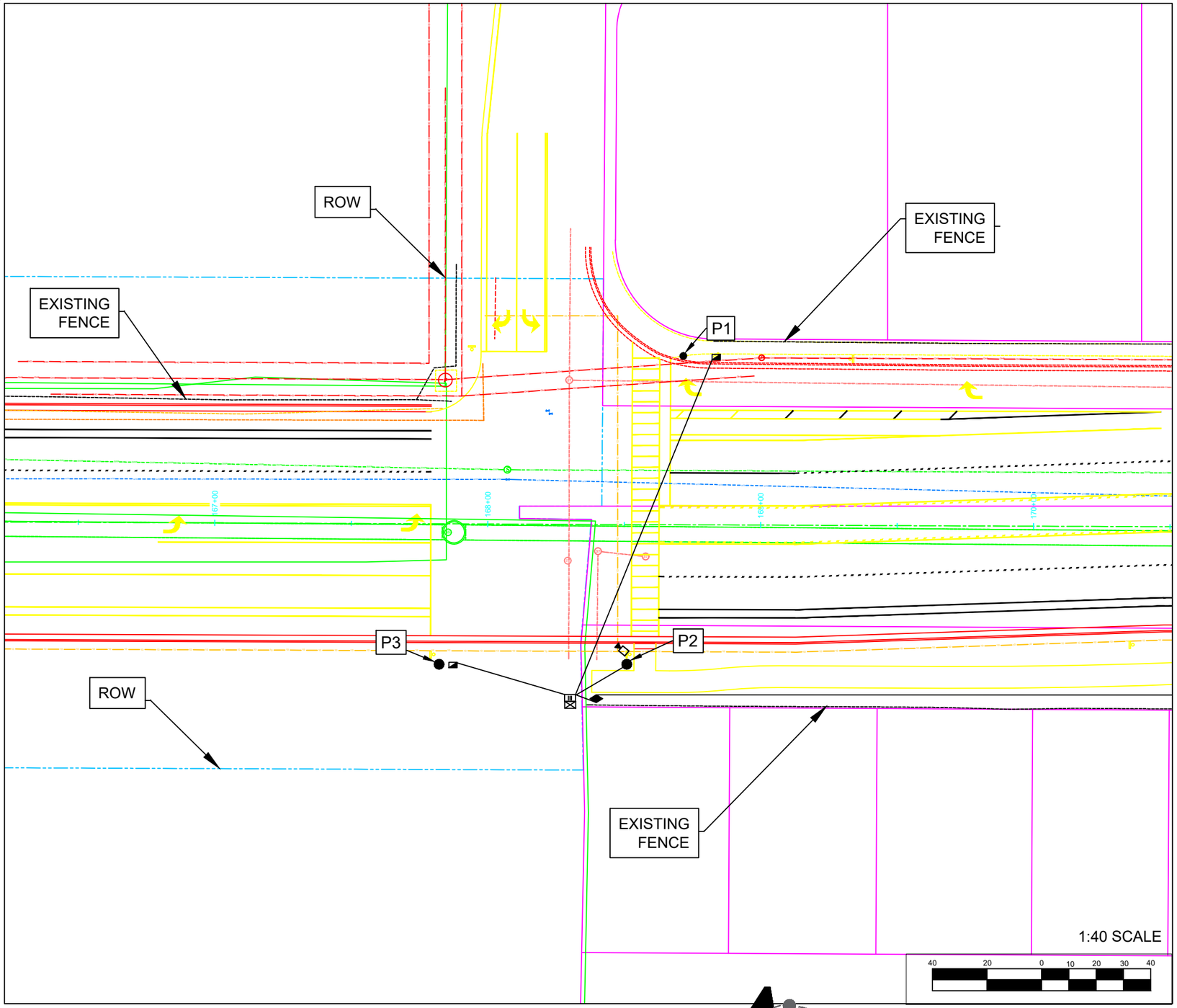
1900 SOUTH / 1100 WEST

CIRCUIT SHEET

SG-05



CONTROL

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N

NOTES

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DRAFT
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CONSTRUCTION

No.	REVISION	BY	DATE
1	FIRST SUBMITTAL	JP	2/26/2026

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1900 SOUTH / 1100 WEST

UTILITIES AND CONTROL SHEET

SG-06

LEGEND

- CONDUIT
- P1 — SIGNAL POLE IDENTIFICATION
- DUAL MAST ARM SIGNAL POLE
- MAST ARM SIGNAL POLE
- SIGNAL POLE LUMINAIRE EXTENSION WITH ARM
- SIGNAL POLE LUMINAIRE EXTENSION WITH VERTICAL ATTACHMENT
- MAST ARM MOUNTED SIGN
- PS — POWER SOURCE
- TRAFFIC SIGNAL POLE
- TYPE 0 - 1 SECTION SIGNAL HEAD ASSEMBLY
- TYPE I - 3 SECTION SIGNAL HEAD ASSEMBLY
- TYPE II - 3 SECTION SIGNAL HEAD ASSEMBLY
- TYPE III - 3 SECTION (ALL AROWS) SIGNAL HEAD ASSEMBLY
- TYPE IV - 4 SECTION SIGNAL HEAD ASSEMBLY
- TYPE V - 5 SECTION SIGNAL HEAD ASSEMBLY
- TYPE VI - 4 SECTION (ALL ARROWS) SIGNAL HEAD ASSEMBLY
- TYPE VII - 4 SECTION SIGNAL HEAD ASSEMBLY
- PEDESTRIAN HYBRID BEACON - 3 SECTION SIGNAL HEAD ASSEMBLY
- VIBRATION MITIGATOR
- TRAFFIC SIGNAL CONTROLLER CABINET
- TYPE A JUNCTION BOX
- TYPE B JUNCTION BOX
- TYPE C JUNCTION BOX
- III-PC — TYPE III JUNCTION BOX (ATMS)
- SAME JUNCTION BOX USED FOR SIGNAL CIRCUIT
- PEDESTRIAN SIGNAL HEAD WITH PUSH BUTTON
- AUDIBLE PEDESTRIAN SIGNAL HEAD
- UNDERGROUND SERVICE PEDESTAL (USP)
- PREEMPTION CONTROL SYSTEM DETECTOR
- DIRECTIONAL ANTENNA
- VIDEO DETECTION CAMERA
- CCTV CAMERA
- RADAR DETECTION, DILEMMA ZONE
- RADAR DETECTION, STOP BAR
- LIDAR DETECTION

NOTES:

1. CONTACT SARATOGA SPRINGS CITY ENGINEERING TO SCHEDULE/COORDINATE ON THE FOLLOWING ITEMS:

   SIGNAL INSPECTION: 8 DAYS PRIOR TO TURN-ON CONTACT THE CITY TO REQUEST A SIGNAL INSPECTION.

   SIGNAL TURN-ON: PROVIDE 5 DAYS NOTICE TO SARATOGA SPRINGS CITY ENGINEERING.

2. REFER TO UDOT STD DWG SL SERIES FOR DETAILS.

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1	FIRST SUBMITTAL	JP	2/26/2026

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1900 SOUTH / 1100 WEST

SIGNAL LEGEND

SG-S01

CONTRACTOR FURNISHED MATERIALS

	STRUCTURAL SUPPORT							POWER			CONDUIT							JUNCTION BOX			SIGN				
	MAST ARM SIGNAL POLE FOUNDATION - 3' X 12' (30' TO 65')	MAST ARM SIGNAL POLE FOUNDATION - 3' X 14' (70' TO 75')	MAST ARM SIGNAL POLE FOUNDATION - 4' X 14' (80' TO 85')	TRAFFIC SIGNAL/PED POLE FOUNDATION - 2' X 3'	HIGHWAY LUMINAIRE POLE FOUNDATION - 2.5' x 8'	CABINET FOUNDATION	UNDERGROUND SERVICE PEDESTAL FOUNDATION	UNDERGROUND SERVICE PEDESTAL	DUAL METER UNDERGROUND SERVICE PEDESTAL	POWER SOURCE (120 VOLT)	2" CONDUIT	2 1/2" CONDUIT	3" CONDUIT	2" CONDUIT WITH DETECTABLE PULL TAPE (FUTURE USE)	TRENCHING PAVED SURFACE	ADDITIONAL COST FOR ROCKY SOIL	DIRECTIONAL BORING	TYPE A	TYPE B	TYPE C	MAST ARM MOUNTED SIGN WITH MOUNTING BRACKETS	GALAXY ASTRO-BRAC, ARM CLAMP ONLY (96" CABLE)	ASTRO-BRAC GUSSETED TUBE ONLY (96" LENGTH)	SIGN CLAMP	SIGNAL POLE MOUNTED SIGN WITH MOUNTING BRACKETS
LOCATION	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	EA	EA	EA	EA	EA	EA
1900 South 1100 West		2		1		1	1	1		1	800		TBD	400			500		2	1	5	3	3	9	0
TOTALS	**0**	**2**	**0**	**1**	**0**	**1**	**1**	**1**	**0**	**1**	**$**	**$**	**$**	**$**	**$**	**$**	**$**	**0**	**2**	**1**	**5**	**3**	**3**	**9**	**0**

CONTRACTOR FURNISHED MATERIALS

	SIGNAL AND PEDESTRIAN							LIGHTING			GROUNDING			DETECTION		
	NO. 10 SINGLE CONDUCTOR STRANDED COPPER CABLE	7 CONDUCTOR NO. 14 CABLE (SIGNAL CIRCUIT)	7 CONDUCTOR NO. 14 CABLE (PED CIRCUIT)	4 CONDUCTOR NO. 14 CABLE (PUSH BUTTON CIR)	COUNTDOWN PEDESTRIAN SIGNAL HEAD	PUSH BUTTON AND SIGN ASSEMBLY	PUSH BUTTON FRAME STAND-OFF BRACKET	NO. 4 SINGLE CONDUCTOR CABLE	NO. 6 SINGLE CONDUCTOR CABLE	NO. 12 AWG WIRE WITH BLUE INSULATION	GROUND ROD	NO. 6 BARE COPPER GROUND WIRE	NO. 12 STRANDED GROUND WIRE (STOP BAR DETECTION)	CAT 6 CCTV CABLE	SMART SENSOR ADVANCE CABLE (SEE NOTE 5)	CAT6 GAMECHANGER
LOCATION	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	PAIR	LIN FT	LIN FT	LIN FT	EA	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT
1900 South 1100 West	TBD	300	300	300	2	2	0			350	3	600		65		125
TOTALS	**$**	**$**	**$**	**$**	**2**	**2**	**0**	**$**	**$**	**$**	**3**	**$**	**$**	**$**	**$**	**$**

$ THESE ITEMS ARE CALCULATED BY THE CONTRACTOR

NOTES:

1. SEE UDOT STD DWG SL SERIES AND SECTIONS 02892 AND 16530.
2. CONTACT REGION SIGNAL CREW (SEE SG-S01 FOR CONTACT INFORMATION) THREE (3) DAYS IN ADVANCE OF UNDERGROUND SERVICE PEDESTAL INSPECTION.
3. PLACE ALL CONDUIT IN SAME BORE SHOT WHERE POSSIBLE.
4. CONSTRUCT SIGNAL IN A MANNER TO AVOID DAMAGE TO EXISTING UTILITIES. ASSUME RESPONSIBILITY FOR ANY UTILITY DAMAGED BY CONSTRUCTION OPERATIONS. THE PLANS SHOW BURIED UTILITY LOCATIONS IN THEIR APPROXIMATE LOCATION ONLY.
5. SEE MANUFACTURER'S REQUIREMENTS FOR CABLE TYPE

DRAFT
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Checked By JP Date 2/26/2026

A-Trans Transportation Engineering
P.O. Box 521651 Salt Lake City, UT 84152
Phone: (801) 949-0348
Email: atrans@comcast.net

1900 SOUTH / 1100 WEST

SIGNAL SCHEDULE

SG-S02

CITY FURNISHED MATERIALS

SIGNAL SCHEDULE

	TRAFFIC SIGNAL					POLES					MAST ARMS												ANCHOR BOLTS	
	CONTROLLER	M.M.U.	SIGNAL CABINET	BATTERY BACKUP (In Cabinet)	POWDER COATING	5'6" TRAFFIC / PED SIGNAL POLE (Slip Base)	11' TRAFFIC / PED SIGNAL POLE (Slip Base)	15' TRAFFIC / PED SIGNAL POLE (Slip Base)	TYPE A MAST ARM SIGNAL POLE (30' to 55')	TYPE B MAST ARM SIGNAL POLE (60' to 75')	30' CURVED MAST ARM	35' CURVED MAST ARM	40' CURVED MAST ARM	40' STRAIGHT MAST ARM (NON-STOCK)	45' CURVED MAST ARM	45' STRAIGHT MAST ARM (NON-STOCK)	50' CURVED MAST ARM	50' STRAIGHT MAST ARM (NON-STOCK)	55' CURVED MAST ARM	60' STRAIGHT MAST ARM	70' CURVED MAST ARM	75' STRAIGHT MAST ARM	VIBRATION MITIGATOR	2" x 66" ANCHOR BOLT (Mast Poles)	1" x 36" ANCHOR BOLT (Traffic Poles)
LOCATION	EA	EA	EA	EA	LUMP	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
1900 South 1100 West	1	1	1				1			2					1			1				1	3	8	4

CITY FURNISHED MATERIALS

HIGHWAY LIGHTING SCHEDULE

	POLE / EXTENSIONS								ARMS				LED's		
	40' HIGHWAY LUMINAIRE POLE (Slip Base)	30' HIGHWAY LUMINAIRE POLE (Slip Base)	LUMINAIRE POLE CAP	25' LUMINAIRE EXTENSION (2' 6") (For Type A Mast Pole)	30' LUMINAIRE EXTENSION (7' 6") (For Type A Mast Pole)	40' LUMINAIRE EXTENSION (17' 6") (For Type A Mast Pole)	40' LUMINAIRE EXTENSION (12' 6") (For Type B Mast Pole)	VERTICAL LUMINAIRE EXTENSION	10' LUMINAIRE ARM	15' LUMINAIRE ARM	10' DUAL LUMINAIRE ARM (NON-STOCK)	15' DUAL LUMINAIRE ARM	MULTI-VOLT / TYPE-A (250w)	MULTI-VOLT / TYPE-B (400w)	MAST ARM MOUNTED LIGHTING LED LUMINAIRE (400w)
LOCATION	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
1900 South 1100 West							2			2			2		

CITY FURNISHED MATERIALS

DETECTION SCHEDULE

	RADAR DETECTION								AUDIBLE PED BUTTONS		
	ADVANCE RADAR SENSOR (Dilemma Zone)	LIDAR DETECTOR (Mounting bracket, POE Splitter, Splitter Bracket)	SENSOR MOUNT	CAT6 GAMECHANGER	EPOXY SPLICE KIT	CCTV CAMERA	CLICK-650 RADAR INTERFACE (4 sensors)	ARC 6 RADAR INTERFACE (6 surge cards)	2-WIRE AUDIBLE PED BUTTON (For Full Intersection)	2-WIRE CENTRAL CONTROL UNIT	4-WIRE AUDIBLE PED BUTTON (For 1 or 2 Crossings)
LOCATION	EA	EA	EA	LIN FT	EA	EA	EA	EA	EA	EA	EA
1900 South 1100 West	0	2	0		0	1					

SIGNAL HEAD SCHEDULE

	LED MODULES						POLYMER SIGNAL HEADS								
	RED BALL	YELLOW BALL	GREEN BALL	RED ARROW	YELLOW ARROW	GREEN ARROW	1-SECTION SIGNAL HEAD	3-SECTION SIGNAL HEAD	4-SECTION SIGNAL HEAD	5-SECTION SIGNAL HEAD	PEDESTRIAN HYBRID BEACON SIGNAL HEAD (PHB/HAWK)	TYPE-7 SIGNAL HEAD (Dual-Red)	3 SECTION ASTRO-BRAC ASSEMBLY	4/5 SECTION ASTRO BRAC ASSEMBLY	MAST ARM EXTENSION KIT
LOCATION	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
1900 South 1100 West	6	6	6	4	6	4		8	2				8	2	

NOTES:

1. POLYMER SIGNAL HEAD ASSEMBLIES INCLUDE SIGNAL HEAD HOUSING, VISORS, AND LOUVERED BACK PLATE WITH RETROREFLECTIVE TAPE WHEN APPLICABLE.

DRAFT
NOT FOR
CONSTRUCTION

No.	REVISION	BY	DATE
1	FIRST SUBMITTAL	JP	2/26/2026

Project Number
Designed By JP
Drawn By JB
Checked By JP Date 2/26/2026

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1900 SOUTH / 1100 WEST

SIGNAL SCHEDULE

SG-S03