PUBLIC IMPROVEMENT CONSTRUCTION PLANS

DAWSON TRAILS BLVD (NORTH)

LOCATED IN SECTION 15, TOWNSHIP 8 SOUTH, RANGE 67 WEST, THE SOUTHEAST $\frac{1}{4}$ CORNER OF SECTION 10, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN, TOWN OF CASTLE ROCK, COUNTY OF DOUGLAS, STATE OF COLORADO.
TOWN OF CASTLE ROCK PROJECT NO. CD23-0020

CONTACTS

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NOTES

1. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WHICH WOULD IMPACT THE CONSTRUCTION OF THE PROPOSED UTILITIES PRIOR TO THE START OF CONSTRUCTION.
3. CD DOCUMENTS CANNOT BE APPROVED UNTIL WRITTEN AUTHORIZATION FROM ALL PROPERTY OWNERS IS RECIEVED AND EASEMENTS ARE FINALIZED. WILL NEED TO SUBMIT EASEMENT EXHIBITS FOR REVIEW FOR EACH EASEMENT TYPE AND PROPERTY OWNER (SAME EASEMENT CAN SPAN OVER PROPERTY OWNER IF PROPERTY OWNER IS THE SAME ON EACH LOT/TRACT).

TECHNICAL CODE VARIANCES

TOCR VARIANCE #TCV25-0011
TOCR TRANSPORTATION DESIGN CRITERIA MANUAL
SECTION 2.2.8
THIS VARIANCE IS TO REQUEST CHANGE TO A PORTION +/- 1,332-FEET OF DAWSON TRAILS BOULEVARD FROM A DESIGN SPEED OF 45 MPH (MAJOR ARTERIAL) TO 40 MPH (MINOR ARTERIAL) BETWEEN PLUM CREEK PARKWAY AND CASTLE MEADOWS DRIVE, SEE ATTACHED EXHIBITS. WITH THIS ADJUSTMENT, A REDUCED K-VALUE WILL BE USED FOR THE SAG CURVE AT THE INTERSECTION WITH PLUM CREEK PARKWAY, THUS REDUCING THE SEVERE SLOPE CUT REQUIRED TO ACCESS THE CASTLE MEADOWS SITE.
THIS VARIANCE IS NOT REQUESTING ANY CHANGES TO THE ROADWAY SECTION AT THIS LOCATION, IT WILL REMAIN A MAJOR ARTERIAL ROADWAY SECTION.

CONDITIONS OF APPROVAL: APPROVED

APPROVAL DATE: 05/08/2025

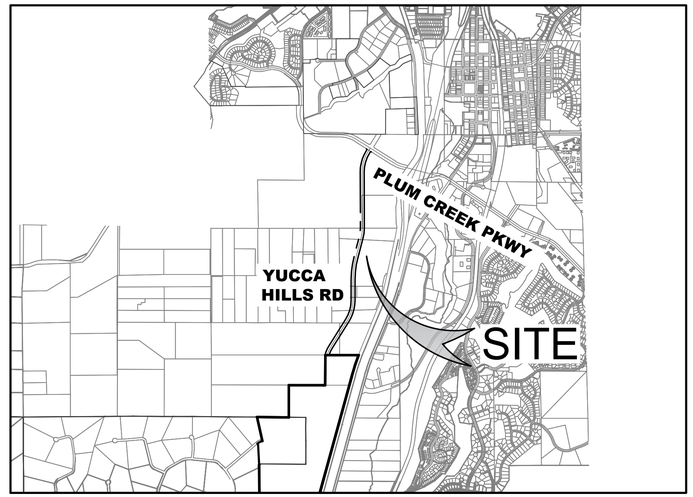
INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENT

THESE PLANS HAVE BEEN REVIEWED BY THE TOWN OF CASTLE ROCK FOR CONCEPT ONLY. THE REVIEW DOES NOT IMPLY RESPONSIBILITY BY THE REVIEWING DEPARTMENT, THE TOWN ENGINEER, OR THE TOWN OF CASTLE ROCK FOR ACCURACY AND CORRECTNESS OF THE CALCULATIONS. FURTHERMORE, THE REVIEW DOES NOT IMPLY THAT QUANTITIES OF ITEMS ON THE PLANS ARE THE FINAL QUANTITIES REQUIRED. THE REVIEW SHALL NOT BE CONSTRUED FOR ANY REASON AS ACCEPTANCE OF FINANCIAL RESPONSIBILITY BY THE TOWN FOR ADDITIONAL QUANTITIES OF ITEMS SHOWN THAT MAY BE REQUIRED DURING THE CONSTRUCTION PHASE.

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF CASTLE ROCK MUNICIPAL CODE, TECHNICAL MANUALS, AND/OR OTHER TOWN-APPROVED APPLICABLE STANDARDS.

FLOODZONE NOTE

THE SITE IS LOCATED WITHIN A ZONE X AND SHADED ZONE X FLOOD ZONE PER FEMA FIRM PANELS 08035C0301G DATED MARCH 16, 2016 AND LOMR CASE NO. 16-08-0265P EFFECTIVE JUNE 24, 2016.



VICINITY MAP

0 2,000' 4,000'
1 inch = 2,000 ft.

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BENCHMARK:

FOUND A #5 REBAR WITH RED PLASTIC CAP, STAMPED "PLS 22561". SAID BENCHMARK IS LOCATED AT THE INTERSECTION OF THE NORTH LINE OF A THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE SIXTH P.M. AND THE WESTERLY RIGHT OF WAY LINE OF WEST PLUM CREEK PARKWAY. BENCHMARK ELEVATION = 6360.72 NAVD88 DATUM.

BASIS OF BEARING:

THE BEARINGS FOR THIS DESCRIPTION ARE BASED ON THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 33, TOWNSHIP 3 SOUTH, RANGE 63 WEST OF THE SIXTH P.M., BEING ASSUMED TO BEAR S 00°25'36" E. FROM THE NORTHEAST CORNER OF SAID SECTION 33, BEING MONUMENTED BY A REBAR WITH A 2-1/2 INCH ALUMINUM CAP STAMPED "PLS 25379", IN A RANGE BOX, TO THE EAST QUARTER CORNER OF SAID SECTION 33, BEING MONUMENTED BY A REBAR WITH A 3-1/4 INCH ALUMINUM CAP, STAMPED "PLS 26715", IN A RANGE BOX, WITH ALL BEARINGS CONTAINED HEREIN RELATIVE THERETO.

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
COVER

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 1 OF 70

2025-10-01 (6:25 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs COVER.dwg

GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TOWN OF CASTLE ROCK (TCR) MUNICIPAL CODE, TCR TECHNICAL MANUALS, AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE TECHNICAL MANUAL OR ANY APPLICABLE STANDARDS, THE MORE STRINGENT STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.

3. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TOWN AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOURS NOTICE TO THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, PRIOR TO MAKING ANY CONNECTIONS/TIE-INS TO EXISTING WATER, SANITARY SEWER, AND/OR STORM SEWER SYSTEMS PROVIDED THAT THE UTILITY TIE-IN DOES NOT DISRUPT SERVICE TO EXISTING CR WATER CUSTOMERS. IF THE TIE-IN WILL DISRUPT UTILITY SERVICE, THEN CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WEEKS NOTICE TO THE TCR CONSTRUCTION INSPECTOR TO ALLOW TIME FOR CR WATER TO PROVIDE WRITTEN NOTIFICATION TO EXISTING CUSTOMERS AFFECTED BY THE TIE-IN. ALL TOWN UTILITY TIE-INS MUST BE APPROVED BY CR WATER PRIOR TO COMMENCING WORK.

6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE CRITERIA AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ONSITE AT ALL TIMES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

8. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE TCR CONSTRUCTION INSPECTOR IMMEDIATELY.

9. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD UNLESS SPECIFICALLY STATED OTHERWISE.

10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (TOWN, COUNTY OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.

11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR AS DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED UNLESS SPECIFICALLY NOTED OTHERWISE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE AND AVAILABLE TO THE TCR CONSTRUCTION INSPECTOR AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING, IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.

14. ALL INITIAL SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PER THE TEMPORARY EROSION & SEDIMENT CONTROL (TESC) PLAN PRIOR TO ANY EARTH-DISTURBING ACTIVITY. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION AT ALL TIMES. REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO CONSTRUCTION GENERAL PERMIT FOR STORMWATER DISCHARGES.

15. THE CONTRACTOR SHALL PROVIDE AN ACTION PLAN IMMEDIATELY FOLLOWING THE PRE-CONSTRUCTION MEETING DETAILING SUFFICIENT MEANS TO MITIGATE DUST ON SITE DURING OVERLOT GRADING, ROCK CRUSHING OR OTHER EARTHWORK ACTIVITIES. IF THE CONTRACTOR FAILS TO CONTROL DUST, ALL EARTH DISTURBING ACTIVITIES SHALL BE STOPPED UNTIL SUFFICIENT MEASURES ARE TAKEN TO THE TOWN'S SATISFACTION. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO AIR QUALITY REGULATIONS FOR LAND DEVELOPMENT, AS REQUIRED.

16. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.

17. THERE SHALL BE NO SITE CONSTRUCTION ACTIVITIES ON SATURDAYS UNLESS SPECIFICALLY APPROVED BY THE TCR CONSTRUCTION INSPECTOR AND NO SITE CONSTRUCTION ACTIVITIES ON SUNDAYS OR HOLIDAYS UNLESS THERE IS PRIOR WRITTEN APPROVAL BY THE PUBLIC WORKS DIRECTOR.

18. NO SOLID OBJECT (EXCLUDING FIRE HYDRANTS AND TRAFFIC CONTROL DEVICES AND TRAFFIC SIGNS) EXCEEDING THIRTY(30) INCHES IN HEIGHT ABOVE THE FLOWLINE ELEVATION OF THE ADJACENT STREET, INCLUDING BUT NOT LIMITED TO BUILDINGS, UTILITY CABINETS, WALLS, FENCES,LANDSCAPE PLANTINGS, CROPS, CUT SLOPES, AND BERMS, SHALL BE PLACED WITHIN SIGHT DISTANCE LINES AND SIGHT DISTANCE EASEMENTS.

19. THIS PROPERTY IS LOCATED WITHIN ZONE X AS PER FEMA FIRM PANEL NO. 08035C0301G, DATED MARCH 16, 2016.

20. FOUND A #5 REBAR WITH RED PLASTIC CAP, STAMPED "PLS 22561", SAID BENCHMARK IS LOCATED AT THE INTERSECTION OF THE NORTH LINE OF A THE SOUTHEAST CORNER OF SECTION 10, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE SIXTH P.M. AND THE WESTERLY RIGHT OF WAY LINE WEST PLUM CREEK PARKWAY. BENCHMARK ELEVATION= 6360.72 NAVD88 DATUM.

21. THE BEARINGS FOR THIS DESCRIPTION ARE BASED ON THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 33, TOWNSHIP 3 SOUTH, RANGE 63 WEST OF THE SIXTH P.M., BEING ASSUMED TO BEAR S 00°25'36" E, FROM THE NORTHEAST CORNER OF SAID SECTION 33, BEING MONUMENTED BY A REBAR WITH A 2-12 INCH ALUMINUM CAP STAMPED "PLS 25379", IN A RANGE BOX, TO THE EAST QUARTER CORNER OF SAID SECTION 33, BEING MONUMENTED BY A REBAR WITH A 3-1/4 INCH ALIMINUM CAP, STAMPED "PLS 26715", IN A RANGE BOX, WITH ALL BEARINGS CONTAINED HEREIN RELATIVE THERETO.

22. TYING INTO, CROSSING, OR RELOCATING CRITICAL INFRASTRUCTURE WILL REQUIRE A TIME AND MATERIALS UTILITY (TMU) PERMIT, WITH FEES REQUIRED PRIOR TO CONSTRUCTION.

SIGNAGE AND STRIPING NOTES

1. ALL SIGNAGE AND STRIPING IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE SIGNAGE AND STRIPING NOTES LISTED HERE.

2. ALL PAINT SHALL BE 15 MIL THICK UPON INSTALLATION AND 8 MIL THICK WHEN DRY.

3. ALL PERMANENT LONGITUDINAL PAVEMENT STRIPING ON ASPHALT SURFACES (CENTERLINES, LANE LINES, BAY LINES, ETC.) SHALL BE INSTALLED USING AN APPROVED REFLECTIVE TRAFFIC PAINT OR PAVEMENT MARKING TAPE. REFLECTIVE BEADS SHALL BE APPLIED IN ACCORDANCE WITH CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUFACTURER'S REQUIREMENTS. WHEN TAPE IS USED ON AN ASPHALT STREET, IT SHALL BE "ROLLED" INTO THE FINAL LIFT. ON CONCRETE SURFACES TAPE SHALL BE UTILIZED WITH A CONTRASTING BLACK EDGE AND GROOVED INTO THE PAVEMENT.

4. THERMO-PLASTIC APPLICATIONS SHALL BE AS SPECIFIED IN THE PLANS AND/OR PER TOWN CRITERIA.

5. ALL SURFACES THAT ACCEPT PAINT/THERMO-PLASTIC STRIPING OR PRE-FORMED MARKINGS SHALL BE FIRST SANDBLASTED AND THOROUGHLY CLEANED PRIOR TO INSTALLATION OF STRIPING OR MARKINGS.

6. ALL ARROW MARKINGS SHALL BE PRE-FORMED TAPE, THERMO-PLASTIC OR EPOXY-PAINTED.

7. STOP BARS SHALL BE 90 MIL THERMO-PLASTIC.

8. ALL ROADWAY SIGNAGE SHALL CONFORM TO THE MUTCD AND/OR THE TOWN'S CRITERIA.

9. ALL SIGN POSTS SHALL UTILIZE BREAK AWAY ASSEMBLIES AND FASTENERS, PER THE TCR STANDARD DETAIL.

STREET CONSTRUCTION NOTES

1. ALL STREET CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE STREET CONSTRUCTION NOTES LISTED HERE.

2. A PAVING SECTION DESIGN, SIGNED AND SEALED BY A COLORADO REGISTERED PROFESSIONAL ENGINEER, MUST BE SUBMITTED TO THE TCR PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO ANY STREET CONSTRUCTION ACTIVITY (FULL-DEPTH ASPHALT SECTIONS ARE NOT PERMITTED AT A DEPTH GREATER THAN 8" ASPHALT). THE JOB MIX SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF ANY ASPHALT.

3. WHERE PROPOSED PAVING ADJOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT A MINIMUM DISTANCE OF 12" FROM THE EXISTING EDGE TO CREATE A CLEAN CONSTRUCTION JOINT. THE DEVELOPER SHALL BE REQUIRED TO REMOVE EXISTING PAVEMENT TO A DISTANCE WHERE A CLEAN CONSTRUCTION JOINT CAN BE MADE.

4. STREET SUBGRADES SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RE-COMPACTED PRIOR TO SUB-BASE INSTALLATION. NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.

5. VALVE BOXES ARE TO BE BROUGHT UP TO GRADE AT THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.

FIRE NOTES

1. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN DRIVE LANES FOR EMERGENCY VEHICLE INGRESS AND EGRESS, INCLUDING SNOW REMOVAL.

2. EMERGENCY VEHICLE ACCESS ROAD IS REQUIRED TO ALLOW ACCESS WITHIN 150' OF ALL EXTERIOR OF THE BUILDING BY AN APPROVED ROUTE.

3. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRES APPARATUS AND SHALL BE PROVIDED WITH A SURFACE SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES. ACCESS ROAD SHALL BE EITHER CONCRETE, ASPHALT, OR OTHER APPROVED ALTERNATIVE MATERIAL ACCOMPANIED WITH AN ENGINEER'S STAMP STATING THE MATERIAL WILL SUPPORT A 75,000 POUND IMPOSED LOAD.

4. FIRE HYDRANT(S) ARE REQUIRED TO BE INSTALLED AND MADE SERVICEABLE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ONTO THE SITE AND DURING THE TIME OF VERTICAL CONSTRUCTION.

5. "NO PARKING FIRE LANE" SIGNS ARE REQUIRED IN AREAS THAT MEET THE FOLLOWING CRITERIA AND IN AREAS DESIGNATED BY THE FIRE PREVENTION BUREAU. SIGNS SHALL BE POSTED ON BOTH SIDES OF FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS AND DRIVEWAYS LESS THAN 26 FEET WIDE. SIGNS SHALL BE POSTED ON ONE SIDE ONLY OF FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS OR DRIVEWAYS BETWEEN 26 FEET WIDE AND 32 FEET WIDE. NO SIGNAGE IS REQUIRED FOR ACCESS ROADWAY FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS OR DRIVEWAYS EXCEEDING 32 FEET WIDE.

6. WHEN FIRE APPARATUS ACCESS ROADS OR A WATER SUPPLY FOR FIRE PROTECTION IS REQUIRED TO BE INSTALLED, SUCH PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ONTO THE SITE AND THE BUILDING CONSTRUCTION GOING VERTICAL.

7. TRACER WIRE SHALL BE INSTALLED ON ALL FIRE SERVICE LINES AND AT ALL FIRE HYDRANTS. REFER TO TOWN OF CASTLE ROCK STANDARD DETAILS, THE WATER LINE CONSTRUCTION NOTES, AND THE TRACER WIRE INSTALLATION NOTES LISTED HEREIN.

WATER LINE CONSTRUCTION NOTES

1. ALL WATER LINE CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE WATER LINE CONSTRUCTION NOTES LISTED HEREIN.

2. ALL WATER LINES SHALL BE: 1) DUCTILE IRON PIPE (DIP), CONFORMING TO THE REQUIREMENTS OF AWWA C150, CL350 (6"-12"), CL250 (16"AND 20"), CL200 (>24"), WITH PUSH-ON GASKETED JOINTS OR MECHANICAL JOINT ENDS, IN CONFORMANCE WITH AWWA C111. PIPE SHALL BE CEMENT-LINED IN ACCORDANCE WITH AWWA C104, AND AN EXTERIOR COATING IN ACCORDANCE WITH C151-OR 2) PVC PIPE, CONFORMING TO AWWA C900 FOR PIPE SIZES 8" AND 12", CL305 (DR14) AND AWWA C905 FOR PIPE SIZE OF 16", CL235 DR18). MINIMUM DISTRIBUTION MAIN SIZE SHALL BE 8". WATER LINES THAT ARE 10", 14", AND 18" IN DIAMETER ARE NOT PERMITTED.

3. WATER LINE FITTINGS SHALL BE DIP CONFORMING TO AWWA C153 OR C110 AND SHALL HAVE A PRESSURE RATING NOT LESS THAN THE PIPE. ALL FITTINGS SHALL BE MECHANICAL JOINT, UNLESS APPROVED BY CASTLE ROCK WATER.

4. ALL DIP AND FITTINGS SHALL BE ENCASED IN POLYETHYLENE TO PREVENT CORROSION. POLYETHYLENE WRAP, TAPE AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C105.

5. GATE VALVES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AWWA C509-1 AND AWWA C515-01, AS APPROPRIATE, AND SHALL BE DUCTILE IRON BODY AND BONNET, RESILIENT-SEATED WEDGE GATE, NON-RISING STEM TYPE, O-RING SEALS, AND SLIP-ON CONNECTIONS(TAPPING VALVES, WHERE ALLOWED, SHALL BE FLANGE X MJ). VALVE ENDS SHALL BE MECHANICAL JOINT, UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE VALVES SHALL BE SUITABLE FOR A WORKING PRESSURE OF 200 PSI. THEY SHALL BE CLOSED BY TURNING CLOCKWISE AND SHALL HAVE TWO-INCH SQUARE CAST IRON OPERATING NUTS WITH AN ARROW CAST IN THE NUT INDICATING THE DIRECTION OF OPENING. VALVES SHALL BE POLYETHYLENE WRAPPED IN ACCORDANCE WITH AWWA C105. THEY SHALL BE OF SUCH DESIGN AS TO MAINTAIN THE FULL AREA OF THE PIPE THROUGH THE VALVE WHEN OPEN AND SHALL BE DESIGNED TO TAKE FULL PRESSURE ON EITHER FACE. VALVE SHALL HAVE TYPE 304 STAINLESS STEEL BONNET BOLTS AND NUTS AND TYPE 304 STAINLESS STEEL O-RING GLAND BOLTS AND NUTS. VALVES SHALL BE MANUFACTURED BY AMERICAN FLOW CONTROL, KENNEDY OR MUELLER AND SHALL HAVE THE MANUFACTURER'S NAME OR INITIALS AND THE PRESSURE RATING CAST ON THE BODY.

6. ALL FIRE HYDRANTS SHALL BE "PACER WB67-250" BY WATEROUS CO. OR "SUPER CENTURION 250" BY MUELLER CO., OPENING TO THE LEFT. REFER TO TCR STANDARD DETAILW-11.

7. ALL WATER LINES SHALL BE BURIED AN ABSOLUTE MINIMUM OF 5 FEET FROM FINAL GRADE TO THE TOP OF THE WATER MAIN. THE MAXIMUM BURY DEPTH SHALL BE 6 FEET, UNLESS ADDITIONAL DEPTH IS REQUIRED FOR UTILITY CROSSINGS OR OTHER CONFLICTS. WHEREVER SUCH CROSSINGS OR CONFLICTS OCCUR, THE TCR STANDARD DETAIL W-17 SHALL BE USED.

8. ALL WATER LINES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL W-21.

9. CONTRACTOR SHALL MAINTAIN A MINIMUM 18-INCH VERTICAL CLEARANCE AND 10-FOOT HORIZONTAL CLEARANCE EDGE-TO-EDGE BETWEEN ALL WATER LINES AND ANY OTHER PIPED UTILITIES.

10. ALL BENDS, TEES, FIRE HYDRANTS AND PLUGS AT DEAD-END MAINS SHALL BE RESTRAINED FROM THRUST BY USING MEGALUG RESTRAINTS PER TCR STANDARD DETAIL W-18 IN COMBINATION WITH CONCRETE THRUST BLOCKS PER TCR STANDARD DETAIL W-22.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL FIRE HYDRANTS AND VALVE BOXES TO FINISH GRADE IN ACCORDANCE WITH TCR STANDARD DETAILS W-10 AND W-11.

12. WHERE WATER MAINS ARE CONSTRUCTED IN FILL AREAS, ALL FILL MATERIALS SHALL BE PLACED AND COMPACTED TO FINAL GRADE PRIOR TO THE INSTALLATION OF THE WATER MAIN AND APPURTENANCES. ALL FILL MATERIAL SHALL MEET THE TOWNS STANDARD AND BE APPROVED BY CASTLE ROCK WATER. WATER MAINS WITHIN FILL AREAS SHALL HAVE RESTRAINED JOINTS IN ACCORDANCE WITH STANDARD DETAIL W-18.

12.1 PRIOR TO CONNECTING TO THE TOWN'S EXISTING WATER SYSTEM, ALL NEW WATERLINES AND/OR SEGMENTS OF WATERLINES SHALL BE DISINFECTED, PRESSURE TESTED, AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH SECTION 450.5 OF THE TOWN OF CASTLE ROCK CONSTRUCTION METHODOLOGY AND MATERIALS MANUAL; AWWA C651-14 AND C600-5.2; AND DETAILS W-35A AND/OR W-35B. PLEASE NOTE THAT THIS DISINFECTION AND TESTING WILL BE PERFORMED WHILE THE NEW WATERLINES AND/OR SEGMENTS OF WATERLINES ARE NOT PHYSICALLY CONNECTED TO THE TOWN'S EXISTING WATER SYSTEM. TOWN AND CONTRACTOR SHALL FURNISH MATERIALS AS SHOWN ON TCR DETAILS W-35A AND/OR W-35B. CONTRACTOR SHALL PERFORM ALL PROCEDURES FOR TESTING, FLUSHING AND DISINFECTING OF ALL WATER LINES. TESTING SHALL BE DONE IN THE PRESENCE OF THE TCR CONSTRUCTION INSPECTOR. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOUR NOTICE TO, AND OBTAIN APPROVAL FROM THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720)733-2200, PRIOR TO DISINFECTION, PRESSURE TESTING, AND BACTERIOLOGICAL TESTING OF ANY NEW WATERLINES AND/OR SEGMENTS OF WATERLINES.

13. DISTANCES FOR WATER LINES ARE HORIZONTAL DISTANCE FROM THE CENTER OF THE FITTING TO CENTER OF THE FITTING. THEREFORE, DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND FITTING DIMENSIONS.

14. ALL DOMESTIC WATER SERVICE LINES SHALL BE TYPE K COPPER INSULATED WITH POLYWRAP, FROM THE MAIN TO THE METER. THE WATER METER SHALL BE SUPPLIED BY THE TOWN AND INSTALLED BY THE CONTRACTOR. THE WATER METER WILL BE AVAILABLE FOR PICK UP AT CASTLE ROCK WATER. THE INDIVIDUAL PICKING UP THE WATER METER MUST HAVE PROOF OF A PERMIT AND MUST HAVE PAID ALL FEES ASSOCIATED WITH THE WATER METER.

15. WATER LINE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. FOR ALL EXCAVATION OPERATIONS, SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.

16. WATER LINES SHALL BE ALIGNED 6 FEET OFF THE NORTH AND EAST GUTTER FLOW LINES OF PUBLIC STREETS WHEREVER POSSIBLE. SEE DETAIL W-13.

17. WHERE WATER LINE IMPROVEMENTS ARE DIFFICULT TO LOCATE ON THE SURFACE, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL PERMANENT WATER LINE MARKERS, IN ACCORDANCE WITH TCR STANDARD DETAIL W-23, OR AT THE DISCRETION OF THE TCR CONSTRUCTION INSPECTOR.

18. TRACER WIRE SHALL BE USED ON ALL DIP AND PVC WATER MAINS, AND WARNING TAPE SHALL BE PLACED 1 FOOT ABOVE ALL DIP AND PVC PIPE. REFER TO TOWN OF CASTLE ROCK STANDARD TRACER WIRE REQUIREMENTS, IN THESE GENERAL NOTES. TEST STATIONS SHALL BE CONSTRUCTED PER TOCR STANDARD DETAIL W-28.

19. THE MINIMUM DISTANCE BETWEEN TEES, CROSSES, VALVES, AND BENDS SHALL BE 10 FEET WHEREVER POSSIBLE.

20. MAXIMUM DEFLECTION FOR WATER MAINS SHALL NOT EXCEED ONE-HALF OF THE MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION OR 2.5 DEGREES, WHICHEVER IS LESS.

21. ALL RESIDENTIAL WATER SERVICE LINES SHALL BE CONSTRUCTED PERPENDICULAR TO THE FRONT PROPERTY LINE IN CONFORMANCE WITH THE TOWN OF CASTLE ROCK WATER SYSTEM DESIGN CRITERIA MANUAL AND WATER DETAILS.

22. THE MAXIMUM DEFLECTION OF DOMESTIC WATER SERVICE LINES AND IRRIGATION LINES SHALL NOT EXCEED THE MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION.

23. THE SIZE OF THE IRRIGATION TAP, LINE, METER AND BACKFLOW PREVENTION ASSEMBLY SHALL BE THE SAME TO A MINIMUM DISTANCE OF 10 PIPE DIAMETERS PAST THE WINTERIZATION TEE.

24. THE MINIMUM HORIZONTAL SEPARATION BETWEEN UTILITY LINES CARRYING THE SAME MATERIAL (E.G., WATER AND WATER) SHALL BE 5 FEET.

25. WHEN INSTALLING CUT IN TEES OR OTHER APPURTENANCES ON/IN AN EXISTING WATER LINE, THE PIPE MATERIAL BETWEEN THE EXISTING WATER LINE AND THE CUT IN TEE OR OTHER APPURTENANCE SHALL REMAIN CONSISTENT.

26. CONTRACTOR IS RESPONSIBLE TO PROVIDE BACKFLOW PREVENTION DOWNSTREAM OF THE METER. ACCEPTABLE BACKFLOW PREVENTION ASSEMBLIES ARE AS FOLLOWS:

COMMERCIAL POTABLE WATER SERVICE: REDUCED PRESSURE ASSEMBLY.

RESIDENTIAL POTABLE WATER SERVICE: DOUBLE CHECK VALVE ASSEMBLY, REDUCED PRESSURE ASSEMBLY.

COMMERCIAL FIRE SERVICE: REDUCED PRESSURE DETECTOR ASSEMBLY, DOUBLE CHECK VALVE DETECTOR ASSEMBLY.

RESIDENTIAL FIRE SERVICE: REDUCED PRESSURE DETECTOR ASSEMBLY, DOUBLE CHECK VALVE DETECTOR ASSEMBLY.

COMMERCIAL AND MULTIFAMILY IRRIGATION WATER SERVICE: REDUCED PRESSURE ASSEMBLY.

THE DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) IS THE ONLY BACK FLOW PREVENTION DEVICE RATED FOR HORIZONTAL OR VERTICAL INSTALLATION.

TIME AND MATERIALS UTILITY (TMU) PERMIT WILL BE REQUIRED WHERE SITE WILL TIE INTO OR CROSS CRITICAL INFRASTRUCTURE. TMU PERMIT FEES PER THE TMU COST ESTIMATE WILL BE REQUIRED TO BE PAID PRIOR TO CONSTRUCTION.

STORM DRAINAGE CONSTRUCTION NOTES

1. ALL STORM DRAINAGE CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE STORM DRAINAGE CONSTRUCTION NOTES LISTED HERE.

2. ALL STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE (RCP) PER ASTM C76, CL III INSTALLED WITH FLEXIBLE PLASTIC (BITUMEN) GASKETS, ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES. ANY STORM DRAINAGE PIPE UNDER A PROPOSED OR FUTURE TRAFFIC AREA SHALL BE RCP CL III AS A MINIMUM. RCP TO BE JACKED SHALL BE CL-V AS A MINIMUM.

3. ALL STORM DRAINAGE PIPES SHALL HAVE A MINIMUM COVER OF 24" UNLESS LOAD CALCULATIONS ARE PROVIDED. UNDER NO CIRCUMSTANCES WILL ANY PIPE HAVE LESS THAN 18" COVER FROM THE FINISH SURFACE TO THE OUTSIDE WALL OF THE PIPE.

4. ALL STORM DRAINAGE PIPES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL SD-2.

5. ALL STORM DRAINAGE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES AND IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. ALL EXCAVATION OPERATION SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.

6. ALL MANHOLE RIM ELEVATIONS GIVEN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL SET THE FINAL RIM ELEVATION BASED ON THE COMPLETED FINISH SURFACE.

7. ALL STORM DRAINAGE PIPES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10' FROM ALL WATER LINES. WHERE LINES CROSS, THERE SHALL BE A MINIMUM OF 18" CLEAR VERTICAL SEPARATION.

8. ALL INLETS AND MANHOLES SHALL BE PLACED ON A MINIMUM OF 1' OF ¾" WASH ROCK. IF ADDITIONAL SUBGRADE IS DISTURBED, EXCAVATION SHALL BE BACKFILLED WITH ¾" WASH ROCK OR OTHER APPROVED STRUCTURAL SOIL COMPACTED TO 95% OF ASTM D698 UNLESS OTHERWISE INSTRUCTED BY THE INSPECTOR.

SANITARY SEWER CONSTRUCTION NOTES

1. ALL SANITARY SEWER CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE SANITARY SEWER CONSTRUCTION NOTES LISTED HEREIN.

2. ALL SANITARY SEWER PIPELINES SHALL BE PVC, SDR-35, IN ACCORDANCE WITH ASTM D-3034, BELL AND SPIGOT WITH ELASTOMERIC SEAL.

3. ALL SANITARY SEWER PIPELINES SHALL HAVE A MINIMUM COVER OF 5 FEET AND MAXIMUM COVER OF 20 FEET.

4. ALL SANITARY SEWER PIPELINES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL SS-8.

5. ALL MANHOLE RIM ELEVATIONS GIVEN ON THESE PLANS ARE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL SET THE FINAL RIM ELEVATION BASED ON THE COMPLETE FINISH SURFACE AND PER TCR STANDARD DETAIL SS-3.

6. SANITARY SEWER PIPELINE SHALL BE ALIGNED 6 FEET OFF THE SOUTH AND WEST GUTTER FLOW LINES OF PUBLIC STREETS WHEREVER POSSIBLE.

7. ALL SEWER LINES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET EDGE-TO-EDGE FROM ALL WATER LINES. WHERE LINES CROSS, THERE SHALL BE A MINIMUM OF 18" CLEAR VERTICAL SEPARATION.

8. ALL SANITARY SEWER LINES MUST BE TESTED IN ACCORDANCE WITH SECTION 450.6 OF THE TOWN OF CASTLE ROCK CONSTRUCTION METHODOLOGY AND MATERIALS MANUAL IN THE PRESENCE OF A TCR CONSTRUCTION INSPECTOR.

9. ALL SANITARY SEWER LINE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. ALL EXCAVATION OPERATION SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.

10. SANITARY SEWER SERVICES SHALL BE CONNECTED A MINIMUM OF 5 FEET OUTSIDE OF MANHOLES WITH A WYE CONNECTION IN ACCORDANCE WITH TCR STANDARD DETAIL SS-2.

11. MINIMUM COVER FOR SANITARY SEWER SERVICE LINES SHALL BE 5 FEET AND THE MINIMUM SLOPE SHALL BE 2.0%.

12. ALL SANITARY SEWER SERVICE LINES SHALL BE CONSTRUCTED ALONG THE SHORTEST AND STRAIGHTEST ROUTE POSSIBLE IN CONFORMANCE WITH THE TOWN OF CASTLE ROCK WASTEWATER SYSTEM DESIGN CRITERIA MANUAL.

13. THE MINIMUM HORIZONTAL SEPARATION BETWEEN UTILITY LINES CARRYING THE SAME MATERIAL

CORE ENGINEERING NOTES

IN ADDITION TO TOWN STANDARD NOTES, THE FOLLOWING SHALL APPLY:

1. CONTRACTOR SHALL OBTAIN ALL THE MOST RECENT APPLICABLE CODES, LICENSES, STANDARDS, SPECIFICATIONS, PERMITS, BONDS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.

2. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

3. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARDS SHALL APPLY.

4. ALL CONSTRUCTION IN PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.

5. TRAFFIC AND PEDESTRIAN CONTROL SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (LATEST EDITION).

6. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF THE WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION." THESE REGULATIONS ARE DESCRIBED IN SUBPART P, PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WIDENING OR SLOUGHING OF THE TRENCH WHICH MAY BE DETRIMENTAL TO HUMAN SAFETY, TO THE PIPE BEING PLACED, TO TREES OR TO ANY EXISTING STRUCTURE WHERE EXCAVATIONS ARE MADE UNDER SEVERE WATER CONDITIONS. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.

7. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. THE PLAN MAY BE MODIFIED WITH APPROPRIATE APPROVALS FROM THE MUNICIPALITY'S ENGINEERING DIVISION AS FIELD CONDITIONS WARRANT.

8. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

9. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY." FOR INFORMATION, PLEASE CONTACT COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, WQCD-P-B2, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80246-1530. ATTENTION: PERMITS UNIT. PHONE (303) 692-3590.

10. THE CONTRACTOR SHALL REGULARLY PATROL THE PUBLIC LANDS ADJACENT TO THE DEVELOPMENT, REMOVE CONSTRUCTION DEBRIS AND KEEP THE SITE CLEAN AND SAFE.

11. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THIS PROJECT FOR PAVEMENT DESIGN AND RECOMMENDATIONS REGARDING EXCAVATION, COMPACTION, EMBANKMENT, AND TOPSOIL REMOVAL AND REPLACEMENT. FINAL PAVEMENT DESIGN TO BE DETERMINED BY THE GEOTECHNICAL ENGINEER. CONTRACTOR TO COORDINATE THIS WORK. THE CONSTRUCTION METHODS FOR EXCAVATION/EMBANKMENT, COMPACTION AND SUBGRADE PREPARATION SHALL BE IN STRICT CONFORMANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF DISCREPANCIES BETWEEN THE GEOTECHNICAL REPORT RECOMMENDATIONS AND REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

12. EXISTING GRADES AND SPOT ELEVATIONS SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM BEST AVAILABLE INFORMATION AND ARE SHOWN TO THE EXTENT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING GRADE CONDITIONS AT THE LIMITS OF CONSTRUCTION AND AT LOCATIONS THAT INTERFACE WITH EXISTING OR PROPOSED BUILDINGS AND NOTIFY THE CIVIL ENGINEER OF ANY DISCREPANCIES THAT CONTRADICT THE CIVIL ENGINEER'S INTENT FOR DRAINAGE PATTERNS, MAXIMUM AND MINIMUM SLOPES, AND PROPOSED ELEVATIONS AS SHOWN ON THE PLAN.

13. ANY EARTHWORK QUANTITIES ARE RAW NUMBERS AND HAVE NOT BEEN ADJUSTED TO ACCOUNT FOR SHRINK, SWELL, COMPACTION, UTILITY SPOILS, BUILDING FOUNDATION/BASEMENT ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EARTHWORK VALUES.

14. NOTICE TO BIDDERS - UNLESS APPROVAL BLOCKS ARE SIGNED AND THE PLANS ARE STAMPED BY A PROFESSIONAL ENGINEER, THESE DOCUMENTS ARE PENDING JURISDICTIONAL APPROVAL AND SUBJECT TO CHANGE.

15. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS

16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO FOR UTILITY LOCATIONS 2 WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION.

17. ALL STORM DRAIN PIPE SHALL BE CLASS 3 REINFORCED CONCRETE PIPE AND UTILIZING WATER TIGHT JOINTS UNLESS OTHERWISE NOTED.

18. ALL AREAS DISTURBED BEYOND CONSTRUCTION LIMITS SHALL BE RESEEDED/MULCHED AT THE CONTRACTORS EXPENSE.

19. IF CONSTRUCTING NEW CURB AND GUTTER ADJACENT TO EXISTING ASPHALT PAVEMENT, CONTRACTOR SHALL REVIEW EXISTING PAVEMENT ELEVATIONS AND PROPOSED GRADES FOR CURB AND GUTTER AND NOTIFY ENGINEER IF MAXIMUM OR MINIMUM CROSS SLOPES ON ASPHALT PATCH ARE NOT WITHIN THE LIMITS OF CONSTRUCTION.

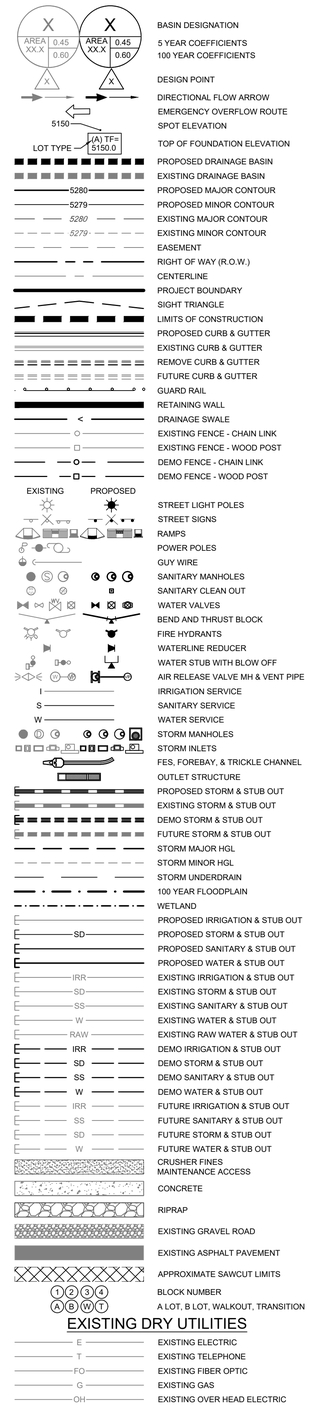
20. THE CONTRACTOR IS RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE, AND AVAILABLE TO THE PUBLIC WORKS INSPECTOR AT ALL TIMES.

21. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWINGS. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.

ABBREVIATIONS:

Δ	DELTA
AC	AIR CONDITIONING UNIT
AD	ALGEBRAIC DIFFERENCE (IN GRADE)
AE	ACCESS EASEMENT
ASPH	ASPHALT
AVE	AVENUE
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICE
BOP	BOTTOM OF PIPE
BOR	BOTTOM OF RAMP
BOS	BOTTOM OF STAIR
BOW	BACK OF WALK
BP	BEGIN PROFILE
BW	BOTTOM OF WALL (FG @ WALL FACE)
CAE	CROSS ACCESS EASEMENT
CCP	CITY OF CASTLE PINES
CDOT	CO. DEPT. OF TRANSPORTATION
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
CON	CONCENTRIC
CONC	CONCRETE
COR	CORNER
CR	CURB RAMP / CURB RETURN
DE	DRAINAGE EASEMENT
DI	DUCTILE IRON
DIA	DIAMETER
DS	DOWNSPOUT
DWG	DRAWING
E	EAST / SUPERELEVATION RATE
E	ELECTRICAL
EB	EASTBOUND
EAE	EMERGENCY ACCESS EASEMENT
EC	EDGE OF CONCRETE
ECC	ECCENTRIC
EG	EXISTING GRADE
EL	ELEVATION
ELEC	ELECTRIC
EM	ELECTRIC METER
ENCL	ENCLOSURE
EOA	EDGE OF ASPHALT
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
EOW	EDGE OF WALK
ESMT	EASEMENT
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FF	FINISH FLOOR
FH	FIRE HYDRANT
FG	FINISH GRADE
FL	FLOWLINE
FO	FIBER OPTIC
FT	FEET
G	GAS
GB	GRADE BREAK
GE	GRADING EASEMENT
GM	GAS METER
GND	GROUND
GP	GUARD POST
GR	GRADE
GRL	GUARDRAIL
GRV	GRAVEL
GS	GARAGE SLAB
GV	GATE VALVE
HC	HANDICAP
HOR	HORIZONTAL
HP	HIGH POINT
HW	HEADWALL
IN	INCHES OR INLET
INT	INTERSECTION
INV	INVERT
IRR	IRRIGATION
JT	JOINT TRENCH
K	DIST FOR 1% CHANGE OF GRADE
L	LENGTH / LEFT
LIP	LIP OF PAN
LP	LOW POINT
LS	LANDSCAPE
LT	LEFT
MAT	MATERIAL
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
N	NORTH
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
OHE	OVERHEAD ELECTRICAL
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
	POINT OF COMPOUND CURVATURE
PCR	POINT OF CURB RETURN
PE	PROFESSIONAL ENGINEER
PED	PEDESTAL
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PLS	PROFESSIONAL LAND SURVEYOR
PP	POWER POLE
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
RCP	REINFORCED CONCRETE PIPE
R	RADIUS / RIGHT
RD	ROAD
RE	REFERENCE
RET	RETAINING
REV	REVISION
ROW	RIGHT-OF-WAY
RT	RIGHT
RW	RAW WATER
S	SOUTH
SANS	SANITARY SEWER
SC	SURVEY CONTROL
SD	STORM DRAIN
SEC	SECTION
SS	SANITARY SEWER
ST	STREET / STORM
STA	STATION
STD	STANDARD
SV	SERVICE
SW	SIDEWALK
SWL	SWALE
T	TELEPHONE
TC	TOP OF CURB / TRAFFIC CONTROL
TBC	TOP BACK OF CURB
TELE	TELEPHONE / COMMUNICATIONS
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TOF	TOP OF FOUNDATION
TOP	TOP OF PIPE
TOR	TOP OF RAMP
TOS	TOP OF STAIR
TOW	TOE OF WALL
TW	TOP OF WALL
TV	TELEVISION
TYP	TYPICAL
UE	UTILITY EASEMENT
UT	UTILITY
VC	VERTICAL CURVE
VC&G	VERTICAL CURB & GUTTER
VLT	VAULT
VERT	VERTICAL
W	WEST
WB	WEST BOUND
WLK	SIDEWALK
WM	WATER METER
WT	WATER
XC	CROSS-SECTION
Y1	SINGLE YELLOW STRIPE
Y2	DOUBLE YELLOW STRIPE

LEGEND



EXISTING DRY UTILITIES

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS. INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

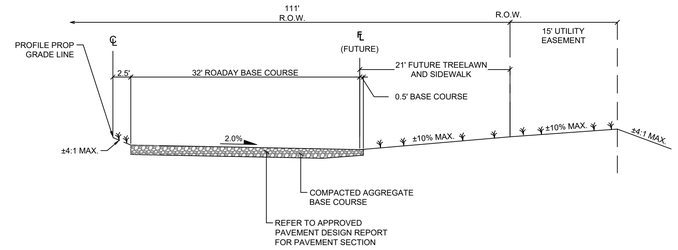
DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
GENERAL NOTES

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

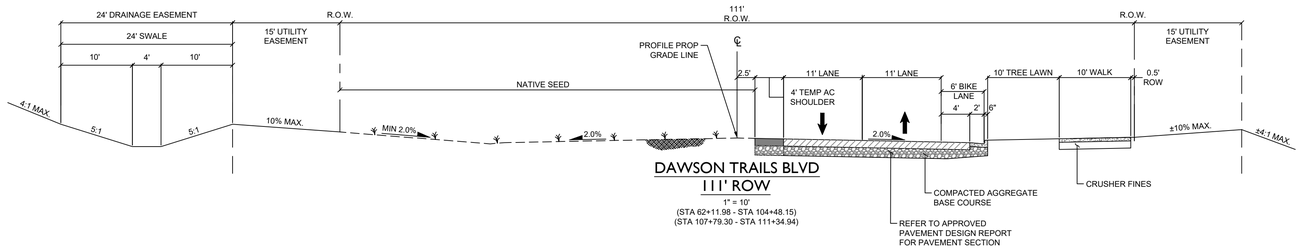
JOB NO. 20-224

SHEET 3 OF 70



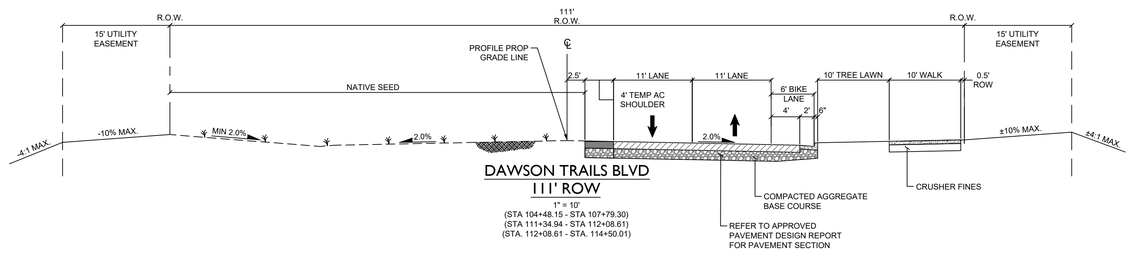
DAWSON TRAILS BLVD
INTERIM PHASE NORTHBOUND SECTION

1" = 10'



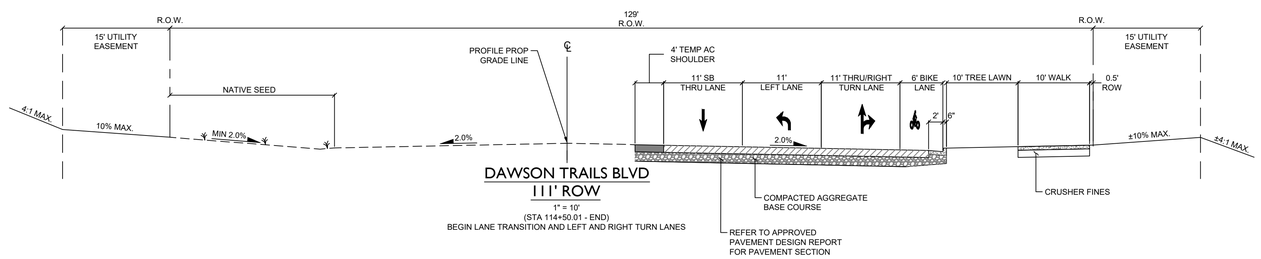
DAWSON TRAILS BLVD
111' ROW

1" = 10'
(STA 62+11.98 - STA 104+48.15)
(STA 107+79.30 - STA 111+34.94)



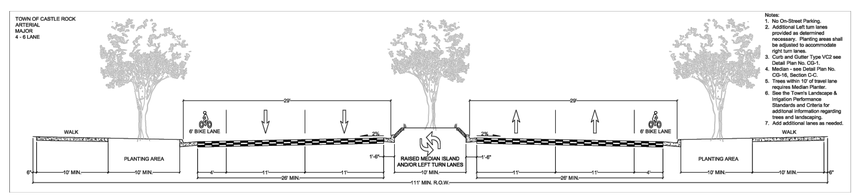
DAWSON TRAILS BLVD
111' ROW

1" = 10'
(STA 104+48.15 - STA 107+79.30)
(STA 111+34.94 - STA 112+08.61)
(STA. 112+08.61 - STA. 114+50.01)

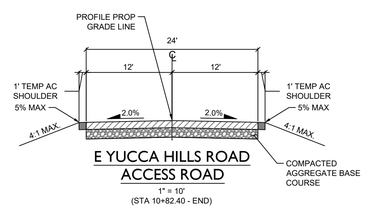


DAWSON TRAILS BLVD
111' ROW

1" = 10'
(STA 114+50.01 - END)
BEGIN LANE TRANSITION AND LEFT AND RIGHT TURN LANES



DAWSON TRAILS BLVD
(AT FINAL BUILD-OUT)



E YUCCA HILLS ROAD
ACCESS ROAD

1" = 10'
(STA 10+82.40 - END)

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
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LAND DEVELOPMENT
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PUBLIC INFRASTRUCTURE

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1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
ROAD SECTIONS

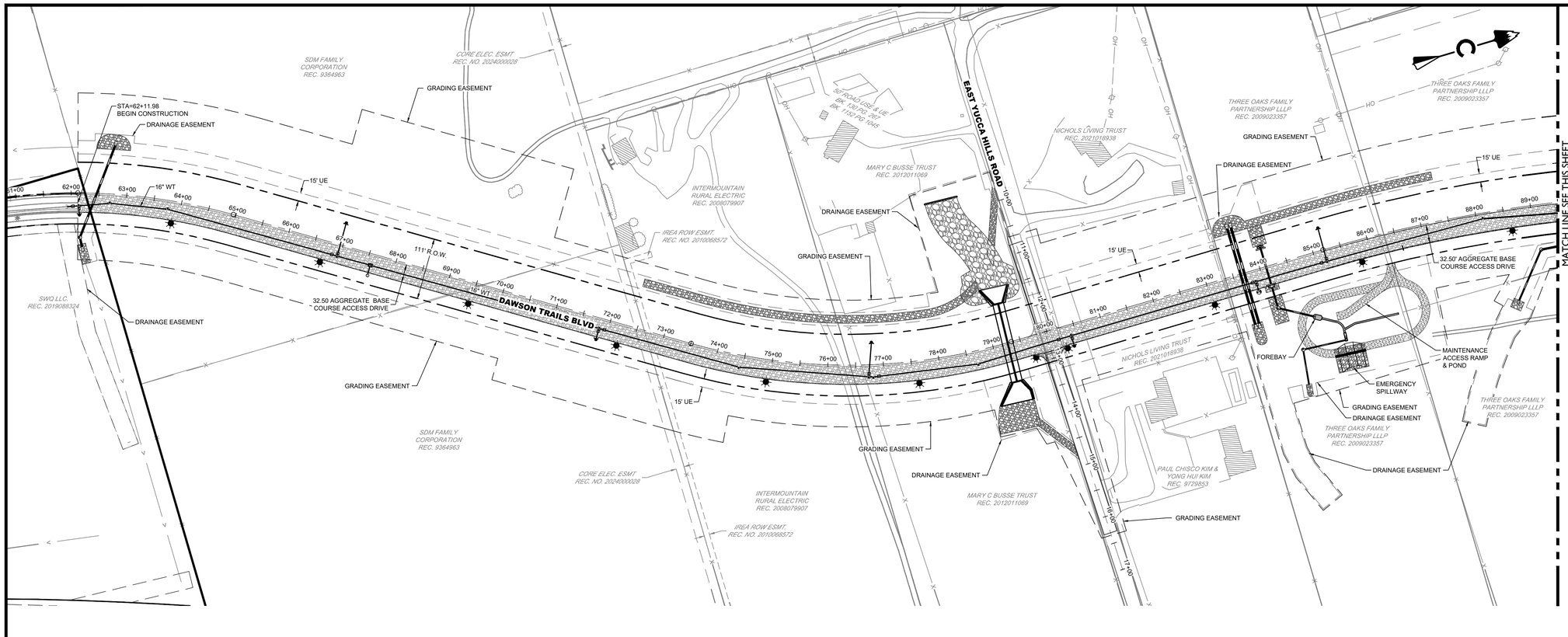
WESTSIDE

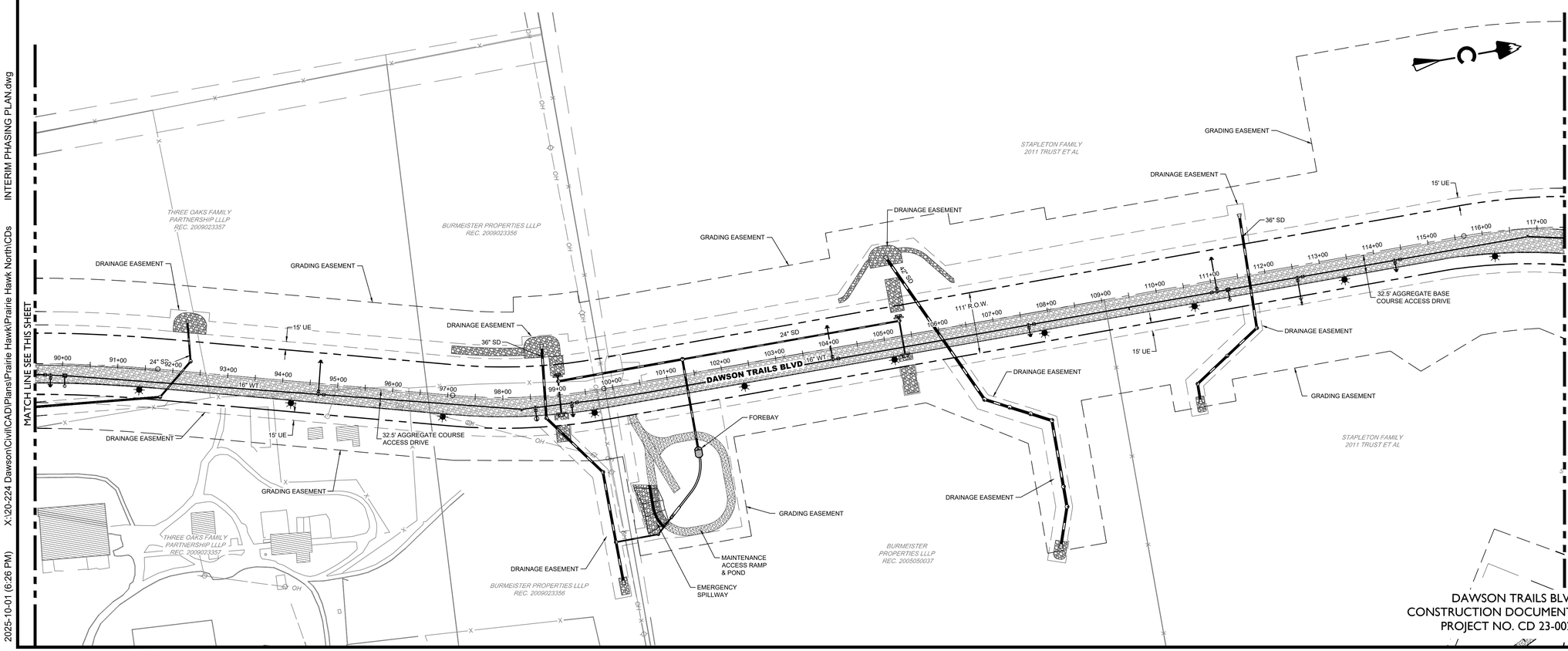
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

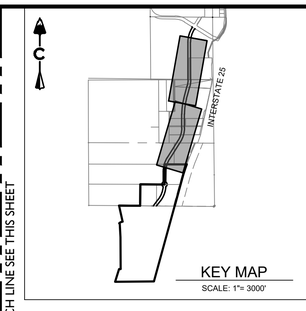
SHEET
4 OF 70

2025-10-01 (6:26 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs GENERAL NOTES.dwg





DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020



KEY MAP
SCALE: 1"= 3000'

0 100' 200'
1 inch = 100 ft.

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- EXISTING CURB & GUTTER

EXISTING / PROPOSED

- STREET LIGHT POLES
- STREET SIGNS
- WATER VALVES
- BEND AND THRUST BLOCK
- FIRE HYDRANTS
- WATERLINE REDUCER
- WATER STUB WITH BLOW OFF
- AIR RELEASE VALVE MH & VENT PIPE
- STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT
- AGGREGATE BASE COURSE\ACCESS DRIVE
- PROPOSED ASPHALT

NOTES:

1. ROADWAY TO BE CONSTRUCTED TO INTERIM ROADWAY SECTION. SEE SHEET 4 FOR ROAD SECTIONS
2. ROADWAY PAVEMENT SECTION HAS NOT BEEN FINALIZED AT THE TIME OF PREPARATION OF THESE PLANS. GENERAL CONTRACTOR TO COORDINATE WITH CIVIL ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE FINAL ROADWAY AGGREGATE BASE COURSE DEPTH, AND RESULTING STORM INLET GRATE ELEVATIONS.
3. TYPE R STRUCTURES TO BE INSTALLED AT A REDUCED ELEVATION PER RESULTS OF COORDINATION IN NOTE 2.
4. TYPE R STRUCTURES WILL BE INSTALLED WITH TYPE 13 INLET GRATES INSTEAD OF CURB FACE ASSEMBLY AND FLAT LID.
5. TYPE R STRUCTURES WILL BE COMPLETED IN THE FOLLOWING FINAL PHASE OF CONSTRUCTION WITH CURB FACE ASSEMBLY AND FLAT LID TO MATCH CDOT TYPE R INLET DETAIL. THIS WILL BE COMPLETED PRIOR TO CURB & GUTTER AND ASPHALT PAVING IN THE FOLLOWING FINAL PHASE OF CONSTRUCTION.

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
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ENERGY
PUBLIC INFRASTRUCTURE

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1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
INTERIM PHASING PLAN (1 OF 2)

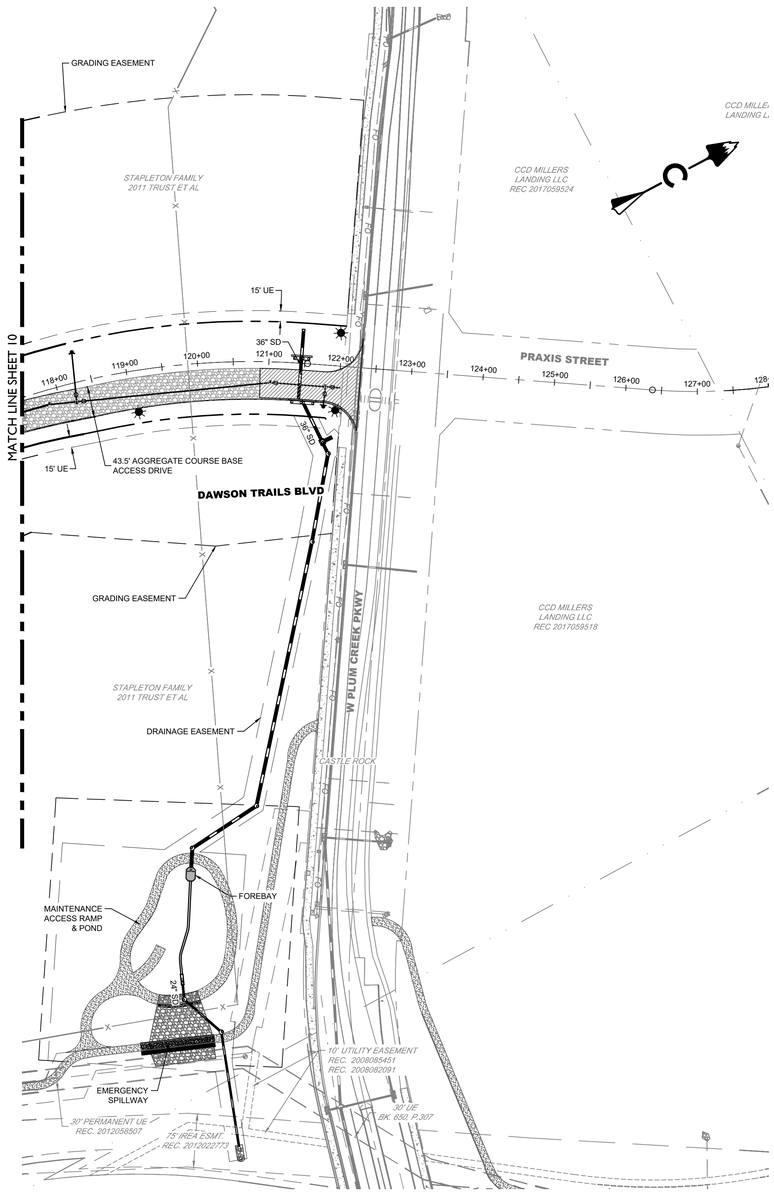
WESTSIDE

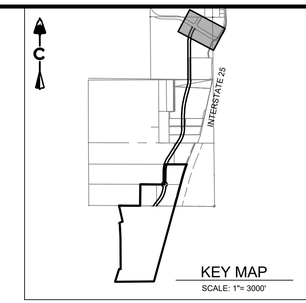
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 5 OF 70

2025-10-01 (6:26 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs INTERIM PHASING PLAN.dwg





KEY MAP
SCALE: 1"= 3000'

0 100' 200'
1 inch = 100 ft.

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- EXISTING CURB & GUTTER

EXISTING	PROPOSED	
		STREET LIGHT POLES
		STREET SIGNS
		WATER VALVES
		BEND AND THRUST BLOCK
		FIRE HYDRANTS
		WATERLINE REDUCER
		WATER STUB WITH BLOW OFF
		AIR RELEASE VALVE MH & VENT PIPE
		STORM MANHOLES
		STORM INLETS
		FES, FOREBAY, & TRICKLE CHANNEL
		OUTLET STRUCTURE
		PROPOSED STORM & STUB OUT
		EXISTING STORM & STUB OUT
		AGGREGATE BASE COURSE ACCESS DRIVE
		PROPOSED ASPHALT

NOTES:

1. ROADWAY TO BE CONSTRUCTED TO INTERIM ROADWAY SECTION. SEE SHEET 4 FOR ROAD SECTIONS
2. ROADWAY PAVEMENT SECTION HAS NOT BEEN FINALIZED AT THE TIME OF PREPARATION OF THESE PLANS. GENERAL CONTRACTOR TO COORDINATE WITH CIVIL ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE FINAL ROADWAY AGGREGATE BASE COURSE DEPTH, AND RESULTING STORM INLET GRATE ELEVATIONS.
3. TYPE R STRUCTURES TO BE INSTALLED AT A REDUCED ELEVATION PER RESULTS OF COORDINATION IN NOTE 2.
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5. TYPE R STRUCTURES WILL BE COMPLETED IN THE FOLLOWING FINAL PHASE OF CONSTRUCTION WITH CURB FACE ASSEMBLY AND FLAT LID TO MATCH CDOT TYPE R INLET DETAIL. THIS WILL BE COMPLETED PRIOR TO CURB & GUTTER AND ASPHALT PAVING IN THE FOLLOWING FINAL PHASE OF CONSTRUCTION.

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
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ENGLEWOOD, CO 80113
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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
INTERIM PHASING PLAN (1 OF 2)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
6 OF 70

2025-10-01 (6:26 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs INTERIM PHASING PLAN.dwg

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

KEY MAP
SCALE: 1"= 3000'

0 100' 200'
1 inch = 100 ft.

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- EXISTING LOT LINE
- FUTURE CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL

EXISTING PROPOSED

- STREET LIGHT POLES
- POTENTIAL DRIVEWAY ACCESS LOCATION
- STREET SIGNS
- RAMPS
- CRUSHER FINES MAINTENANCE ACCESS
- CONCRETE
- RIPRAP
- EXISTING GRAVEL ROAD
- EXISTING FENCE

ABBREVIATIONS:

BOTM	BOTTOM	HP	HIGH POINT
EP	EDGE OF PAVEMENT	LP	LOW POINT
FLPN	FLOODPLAIN	TF	TOP OF FOUNDATION
GE	GRADING EASEMENT	WT	WATER

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
ACCESS PLAN

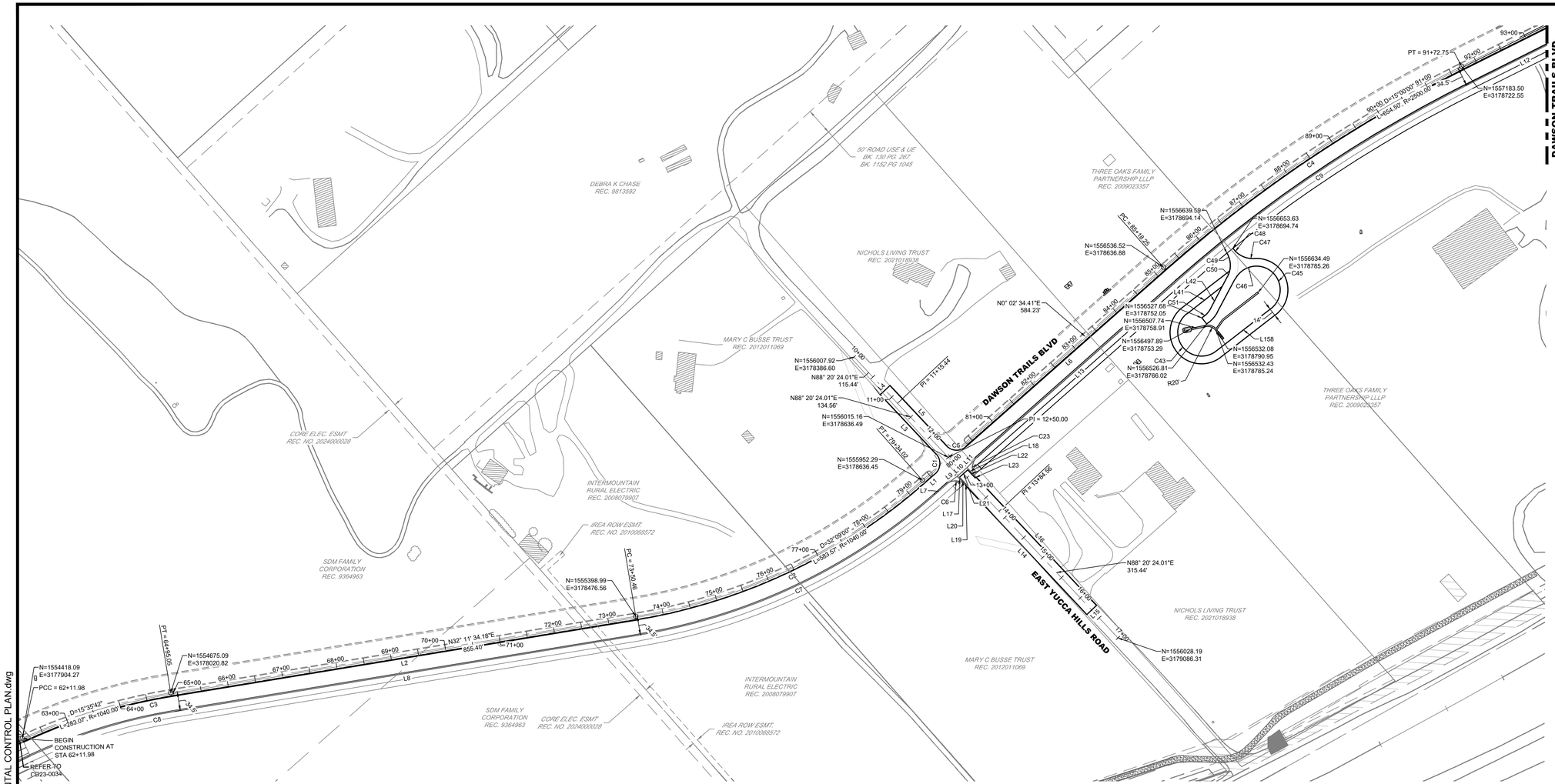
WESTSIDE

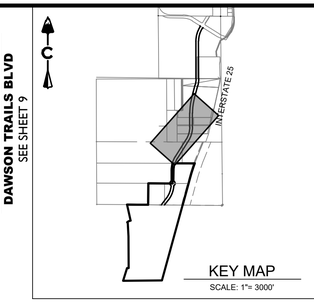
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 7 OF 70

2025-10-01 (6:27 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs ACCESS PLAN.dwg





0 100' 200'

1 inch = 100 ft.

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- EXISTING LOT LINE
- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL

EXISTING PROPOSED

- STREET LIGHT POLES
- STREET SIGNS
- RAMPS
- POWER POLES
- GUY WIRE
- SANITARY MANHOLES
- WATER VALVES
- FIRE HYDRANTS
- AIR RELEASE VALVE MH & VENT PIPE
- STORM MANHOLES
- STORM INLETS
- BLOCK NUMBER
- CRUSHER FINES MAINTENANCE ACCESS
- CONCRETE
- RIPRAP
- EXISTING GRAVEL ROAD
- EXISTING ASPHALT PAVEMENT
- APPROXIMATE SAWCUT LIMITS
- EXISTING FENCE
- EXISTING OVER HEAD ELECTRIC

ABBREVIATIONS:

BOTM	BOTTOM	HP	HIGH POINT
EP	EDGE OF PAVEMENT	LP	LOW POINT
FLPN	FLOODPLAIN	TF	TOP OF FOUNDATION
GE	GRADING EASEMENT	WT	WATER

ROADWAY HORIZONTAL CONTROLS.

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	25.30'	S 0°02'34" W
L2	855.40'	S 32°11'34" W
L3	147.99'	N 88°20'24" E
L4	24.00'	N 1°39'36" W
L5	150.19'	S 88°20'24" W
L6	484.90'	S 0°02'34" W
L7	27.62'	S 0°02'34" W
L8	855.40'	S 32°11'34" W
L9	22.27'	S 4°57'31" W
L10	24.01'	S 0°02'34" W
L11	23.75'	N 4°35'22" W
L12	214.44'	S 15°02'34" W
L13	482.58'	S 0°02'34" W
L14	321.93'	N 88°20'24" E
L15	24.00'	S 1°39'36" E
L16	319.73'	N 88°20'24" E
L17	22.27'	N 88°20'24" E
L18	23.75'	N 88°20'24" E
L19	2.00'	N 1°39'36" W
L20	18.21'	N 88°20'24" E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L21	20.01'	S 0°02'34" W
L22	19.81'	N 88°20'24" E
L23	2.00'	N 1°39'36" W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	40.013	25.000	091.7029
C2	587.215	1046.500	032.1500
C3	281.302	1033.500	015.5950
C4	652.797	2493.500	015.0000
C5	38.527	25.000	088.2971
C6	38.527	25.000	088.2971
C7	602.927	1074.500	032.1500
C8	273.681	1005.500	015.5950
C9	645.466	2465.500	015.0000
C23	40.013	25.000	091.7029

POND HORIZONTAL CONTROLS.

LINE TABLE		
LINE #	LENGTH	DIRECTION
L41	81.23'	S 3°40'25" W
L42	65.97'	S 20°31'52" E
L158	126.10'	N 3°40'25" E

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C43	135.088	43.000	179.9995
C45	109.667	43.000	146.1266
C46	38.734	43.000	051.6118
C47	44.810	43.047	059.6420
C48	44.810	43.047	059.6420
C49	44.273	43.000	058.9925
C50	44.273	43.000	058.9925
C51	18.078	43.000	024.0875

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
HORIZONTAL CONTROL PLAN (1 OF 2)

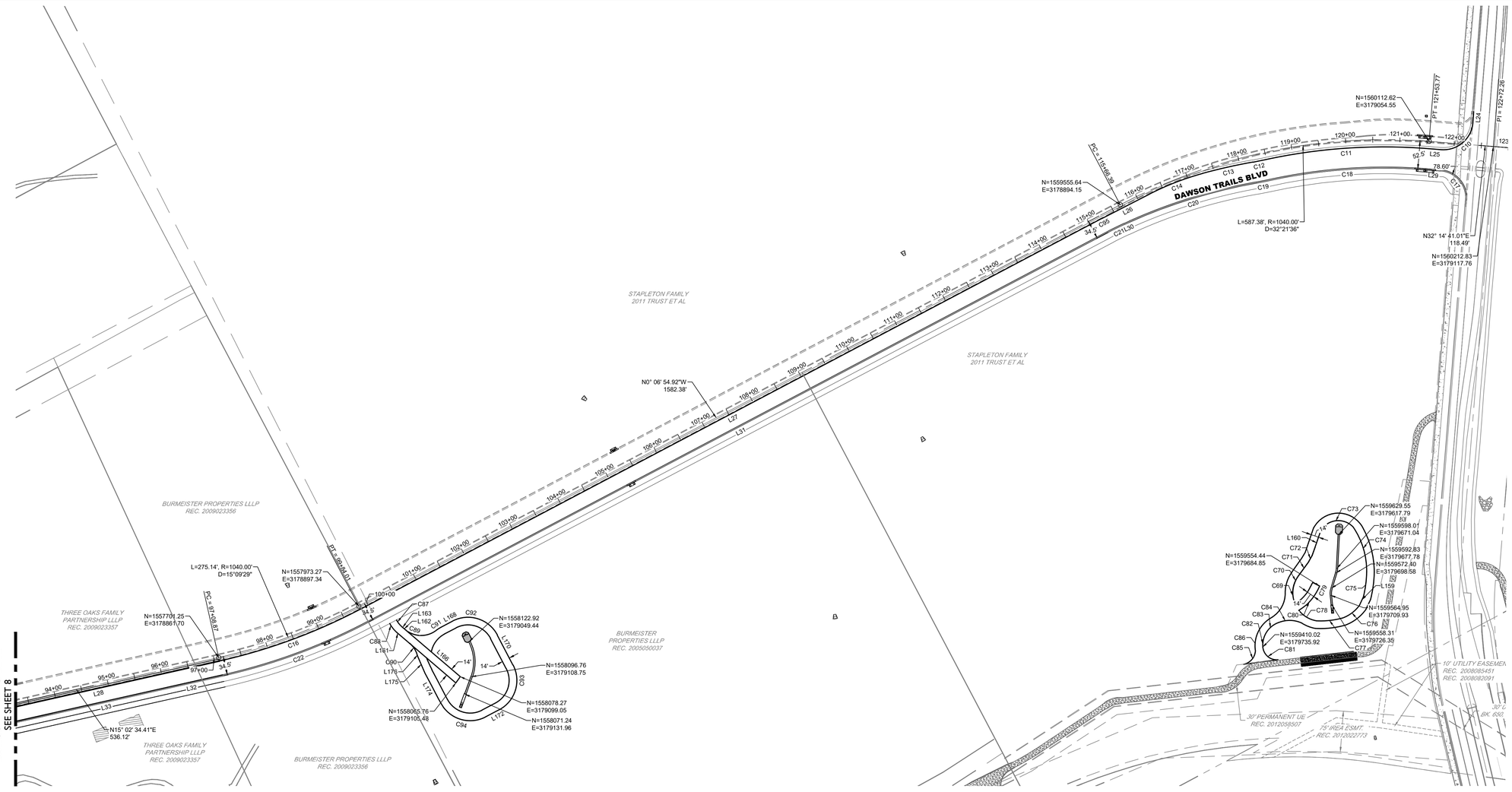
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
8 OF 70

2025-10-01 (6:27 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk North\CDs HORIZONTAL CONTROL PLAN.dwg



ROADWAY HORIZONTAL CONTROLS.

LINE TABLE			CURVE TABLE			
LINE #	LENGTH	DIRECTION	CURVE #	LENGTH	RADIUS	DELTA
L24	20.48'	S 57°47'51" E	C10	83.369	54.037	088.3964
L25	24.86'	S 32°14'43" W	C11	305.610	1026.500	017.0581
L26	98.04'	S 0°30'55" W	C12	19.627	461.000	002.4394
L27	1540.32'	S 0°06'55" E	C13	95.652	1032.654	005.3072
L28	536.12'	S 15°02'34" W	C14	104.247	506.000	011.8041
L29	25.30'	S 32°14'43" W	C16	276.862	1046.500	015.1581
L30	9.84'	S 3°34'34" W	C17	78.598	50.000	090.0667
L31	1540.37'	S 0°06'55" E	C18	293.999	987.500	017.0581
L32	120.59'	S 15°02'34" W	C19	21.288	500.000	002.4394
L33	201.09'	S 15°02'34" W	C20	245.059	993.654	014.1305
			C21	32.213	500.000	003.6914
			C22	284.269	1074.500	015.1581
			C95	0.411	12.800	001.8394

POND HORIZONTAL CONTROLS

LINE TABLE		
LINE #	LENGTH	DIRECTION
L161	31.56'	S 68°11'55" W
L162	3.30'	N 68°11'55" E
L163	4.52'	S 68°11'55" W
L166	133.20'	S 68°11'55" W
L168	24.00'	N 0°01'21" E
L170	62.00'	N 90°00'00" E
L172	28.00'	S 0°01'09" W
L174	25.10'	N 90°00'00" W
L175	33.98'	N 85°58'06" W
L176	3.83'	N 81°28'56" W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C87	16.275	43.000	021.6862
C88	21.574	57.000	021.6862
C89	61.400	45.000	078.1776
C90	24.169	45.000	030.7733
C91	10.622	60.674	010.0304
C92	95.814	60.997	090.0000
C93	95.821	61.000	090.0024
C94	59.810	61.000	056.1782

LINE TABLE		
LINE #	LENGTH	DIRECTION
L159	15.96'	S 37°11'57" E
L160	48.24'	N 43°00'17" W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C69	30.955	52.066	034.0643
C70	26.200	55.455	027.0702
C71	28.835	2837.580	000.5822
C72	13.207	187.943	004.0264
C73	69.146	37.253	106.3475
C74	87.902	142.999	035.2199
C75	47.127	199.843	013.5114
C76	39.290	67.018	033.5902
C77	49.218	150.409	018.7489
C78	38.160	52.066	041.9929
C79	43.370	103.039	024.1161
C80	43.370	103.039	024.1161
C81	20.702	25.298	046.8860
C82	57.520	44.007	074.8896
C83	57.520	44.007	074.8896
C84	43.649	53.740	046.5376
C85	35.367	26.813	075.5757
C86	73.864	59.430	071.2122

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

KEY MAP
SCALE: 1"= 3000'

0 100' 200'
1 inch = 100 ft.

LEGEND

EASEMENT
RIGHT OF WAY (R.O.W.)
CENTERLINE
PROJECT BOUNDARY
EXISTING LOT LINE
SIGHT TRIANGLE
PROPOSED CURB & GUTTER
EXISTING CURB & GUTTER
RETAINING WALL

EXISTING PROPOSED

STREET LIGHT POLES
STREET SIGNS
RAMPS
POWER POLES
GUY WIRE
SANITARY MANHOLES
WATER VALVES
FIRE HYDRANTS
AIR RELEASE VALVE MH & VENT PIPE
STORM MANHOLES
STORM INLETS
BLOCK NUMBER
CRUSHER FINES MAINTENANCE ACCESS
CONCRETE
RIPRAP
EXISTING GRAVEL ROAD
EXISTING ASPHALT PAVEMENT
APPROXIMATE SAWCUT LIMITS
EXISTING FENCE
EXISTING OVER HEAD ELECTRIC

ABBREVIATIONS:

BOTM	BOTTOM	HP	HIGH POINT
EP	EDGE OF PAVEMENT	LP	LOW POINT
FLPN	FLOODPLAIN	TF	TOP OF FOUNDATION
GE	GRADING EASEMENT	WT	WATER

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
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ENERGY
PUBLIC INFRASTRUCTURE

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1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

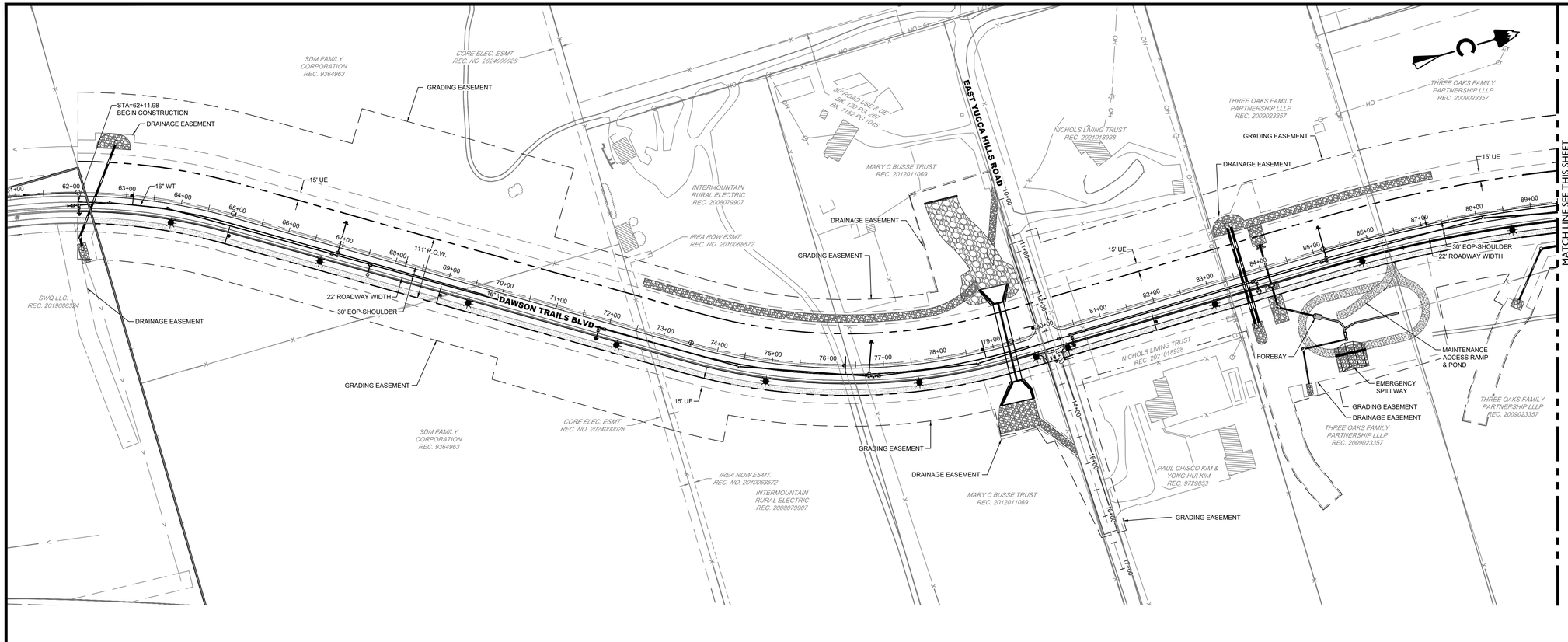
CONSTRUCTION DOCUMENTS
HORIZONTAL CONTROL PLAN (2 OF 2)

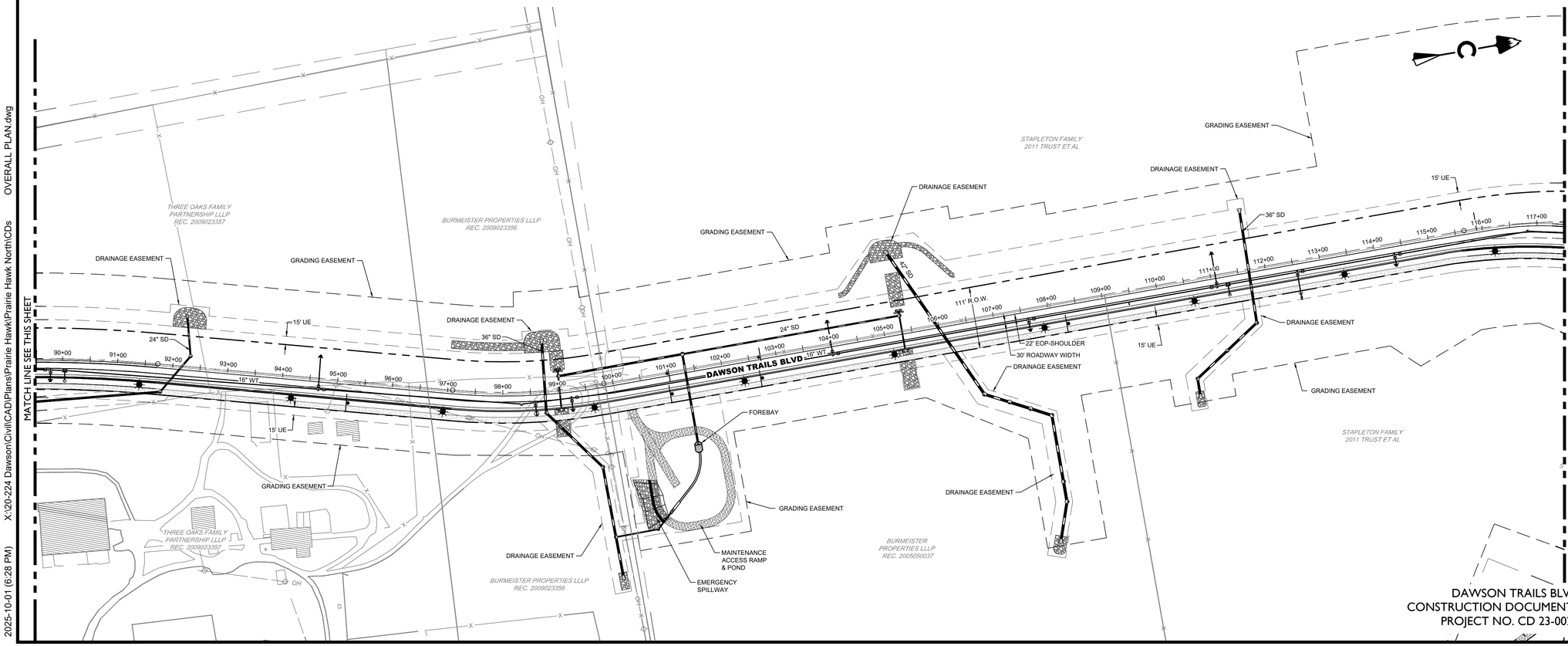
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

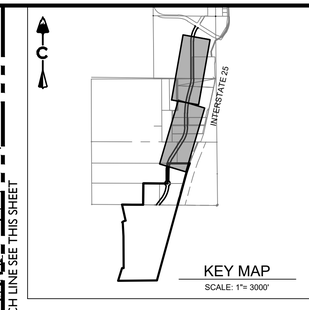
SHEET 9 OF 70

2025-10-01 (6:27 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs HORIZONTAL CONTROL PLAN.dwg





DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020



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LEGEND

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- RIGHT OF WAY (R.O.W.)
- CENTERLINE
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- EXISTING LOT LINE
- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL

EXISTING / PROPOSED

- STREET LIGHT POLES
- STREET SIGNS
- RAMPS
- POWER POLES
- GUY WIRE
- SANITARY MANHOLES
- WATER VALVES
- FIRE HYDRANTS
- AIR RELEASE VALVE MH & VENT PIPE
- STORM MANHOLES
- STORM INLETS
- BLOCK NUMBER
- CRUSHER FINES MAINTENANCE ACCESS
- CONCRETE
- RIPRAP
- CROWN TRANSITION AREA
- EXISTING GRAVEL ROAD
- EXISTING ASPHALT PAVEMENT
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- EXISTING FENCE
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ABBREVIATIONS:

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STATE OF COLORADO # 48230

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
OVERALL PLAN (1 OF 2)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 10 OF 70

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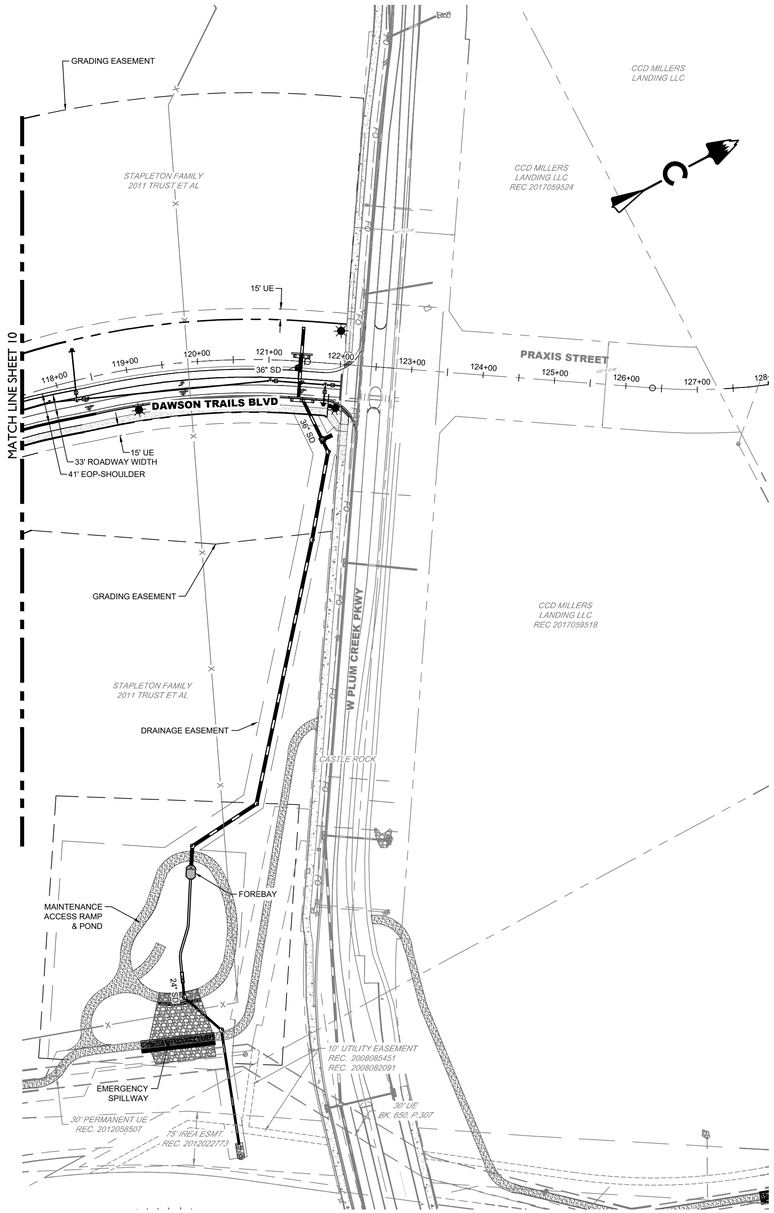

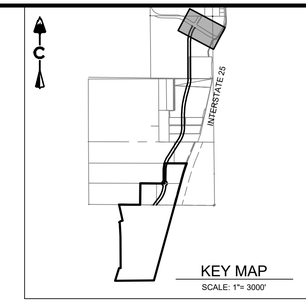

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- EASEMENT
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DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
OVERALL PLAN (2 OF 2)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
11 OF 70

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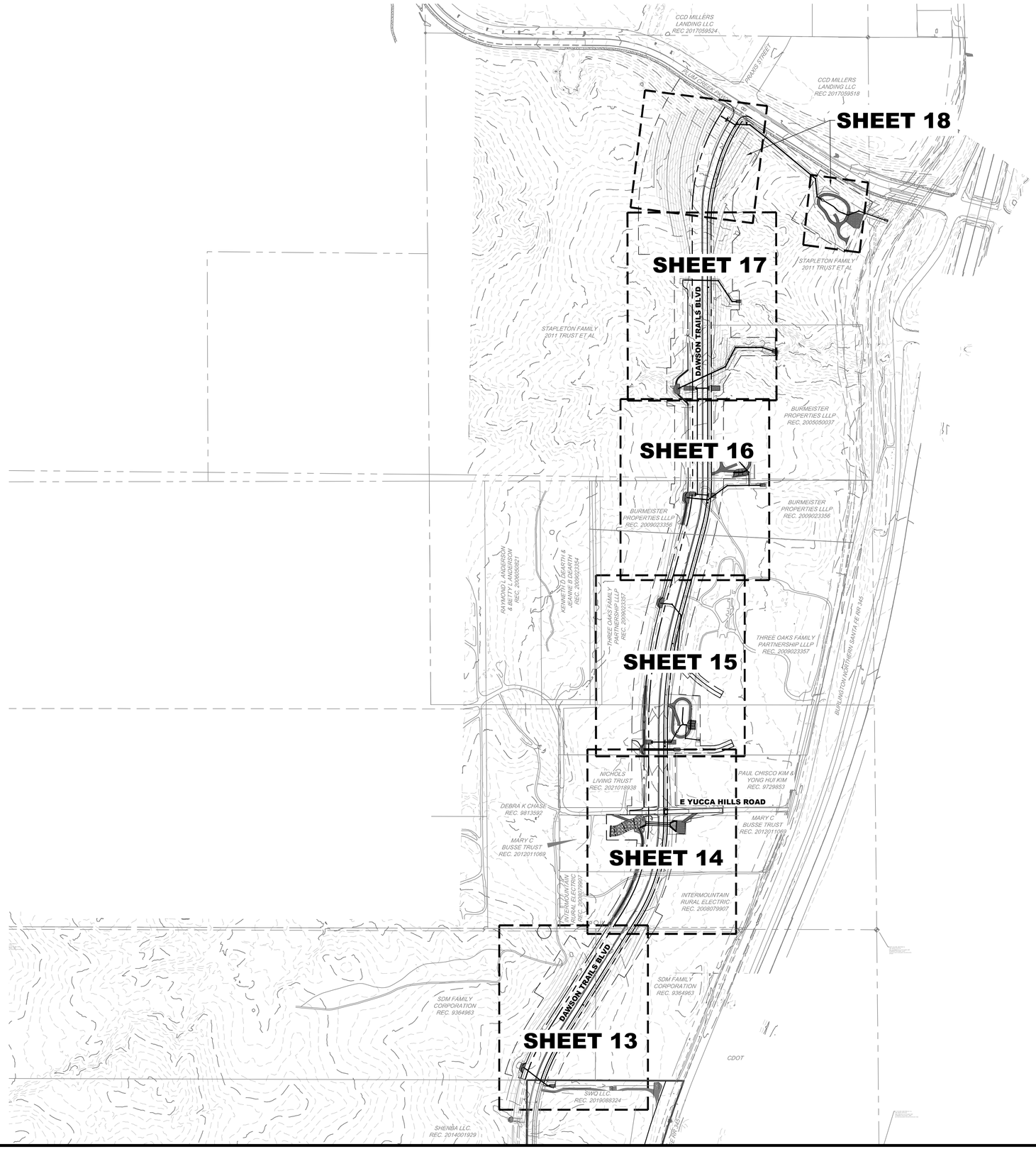

C

0 300' 600'

1 inch = 300 ft.

LEGEND

5280	PROPOSED MAJOR CONTOUR
5279	PROPOSED MINOR CONTOUR
5280	EXISTING MAJOR CONTOUR
5279	EXISTING MINOR CONTOUR
	DIRECTIONAL FLOW ARROW
	EMERGENCY OVERFLOW ROUTE
5150	SPOT ELEVATION
LOT TYPE (A) TF= 5150.0	TOP OF FOUNDATION ELEVATION
	EASEMENT
	RIGHT OF WAY (R.O.W.)
	CENTERLINE
	PROJECT BOUNDARY
	PROPOSED CURB & GUTTER
	FUTURE CURB & GUTTER
	RETAINING WALL
	LIMITS OF CONSTRUCTION
	EX. 100 YEAR FLOODPLAIN
	PR. 100 YEAR FLOODPLAIN
	WETLAND
1 2 3 4 / A B W T	BLOCK NUMBER / A LOT, B LOT, WALKOUT, TRANSITION
EXISTING / PROPOSED	
	STORM MANHOLES
	STORM INLETS
	FES, FOREBAY, & TRICKLE CHANNEL
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DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
OVERALL GRADING PLAN

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 12 OF 70

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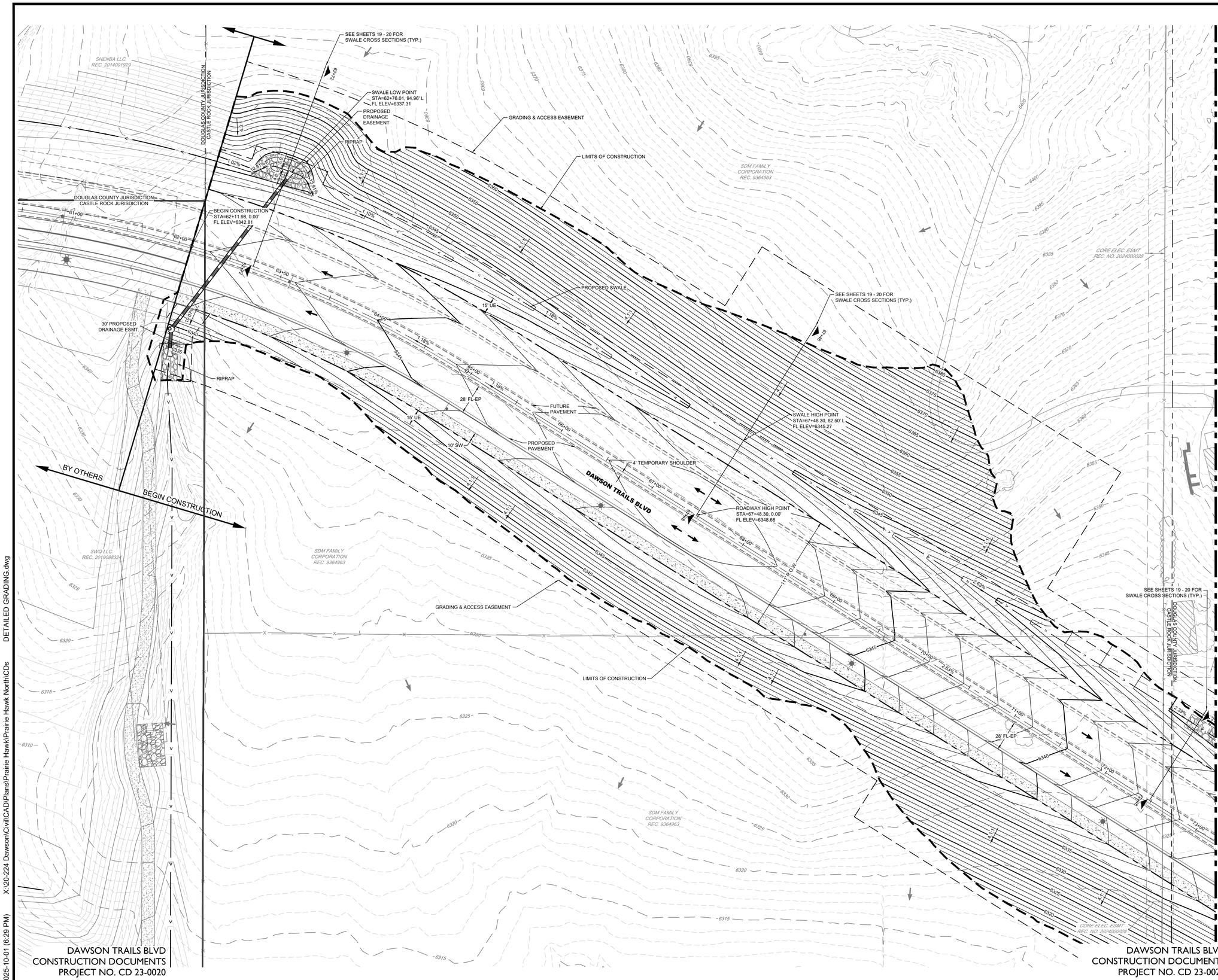

KEY MAP
SCALE: 1"= 3000'

0 40' 80'
1 inch = 40 ft.

LEGEND

- 5280 — PROPOSED MAJOR CONTOUR
- 5279 — PROPOSED MINOR CONTOUR
- 5280 — EXISTING MAJOR CONTOUR
- 5279 — EXISTING MINOR CONTOUR
- DIRECTIONAL FLOW ARROW
- EMERGENCY OVERFLOW ROUTE
- 5150 — SPOT ELEVATION
- LOT TYPE — (A) TF= 5150.0 — TOP OF FOUNDATION ELEVATION
- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- FUTURE CURB & GUTTER
- RETAINING WALL
- LIMITS OF CONSTRUCTION
- EX. 100 YEAR FLOODPLAIN
- PR. 100 YEAR FLOODPLAIN
- WETLAND
- 1 2 3 4 — BLOCK NUMBER
- A B W T — A LOT, B LOT, WALKOUT, TRANSITION
- EXISTING / PROPOSED — STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
GRADING PLAN (1 OF 6)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 13 OF 70

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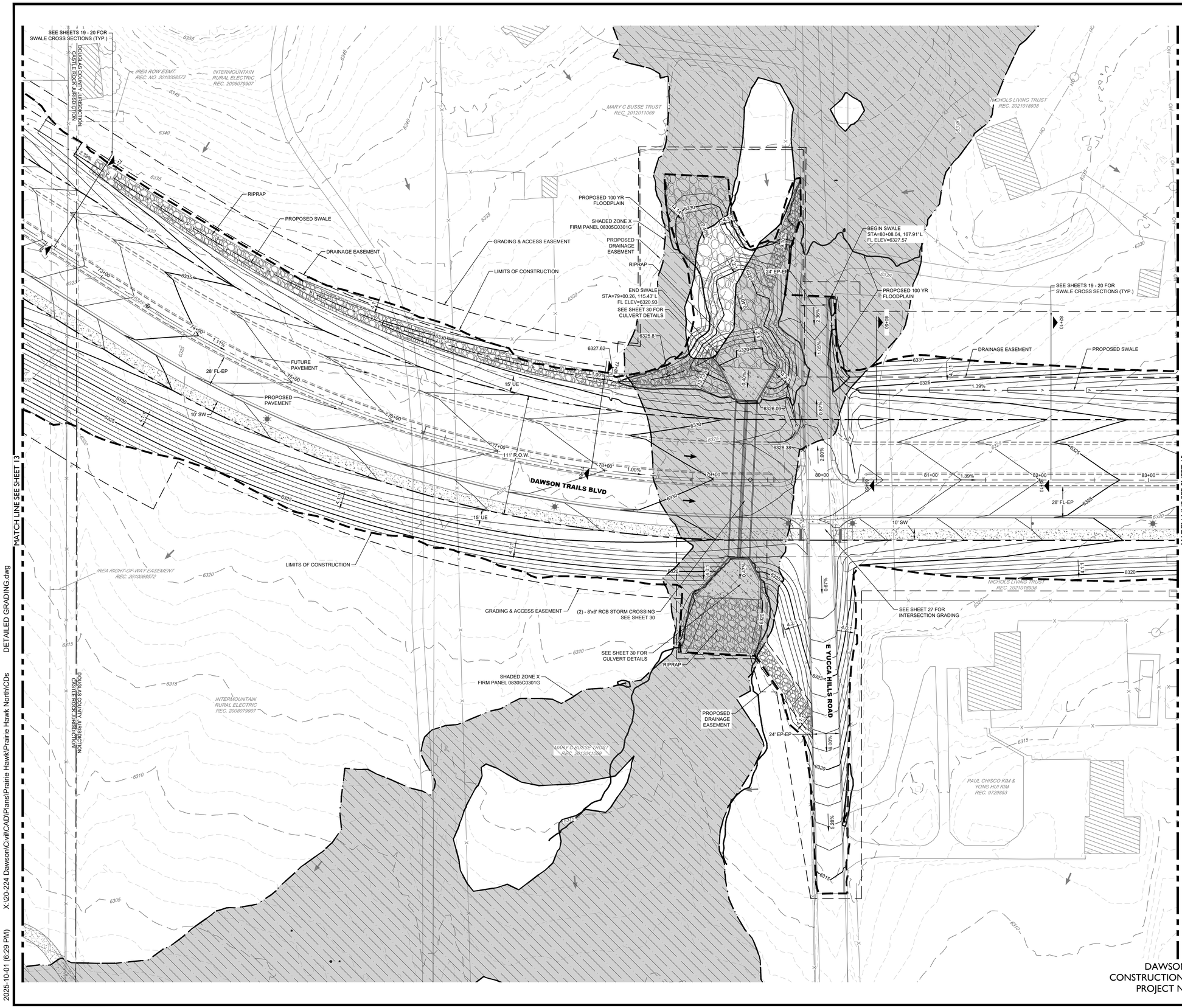

KEY MAP

SCALE: 1"= 3000'

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DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
GRADING PLAN (2 OF 6)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 14 OF 70

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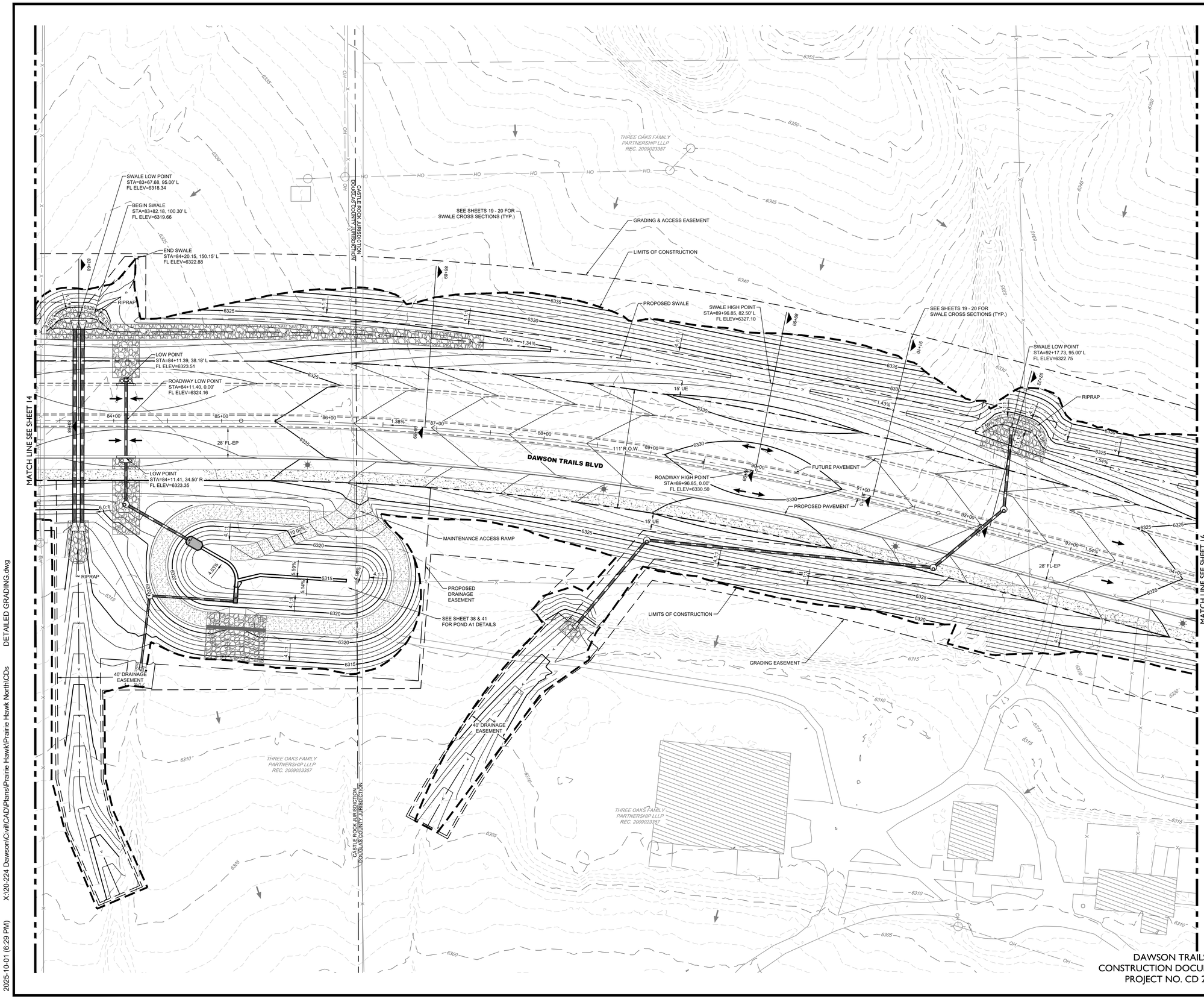

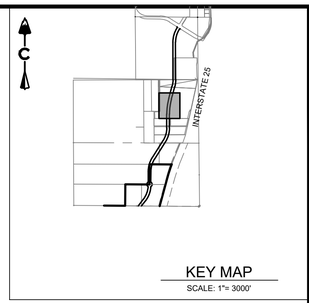

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PROJECT NO. CD 23-0020

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
GRADING PLAN (3 OF 6)

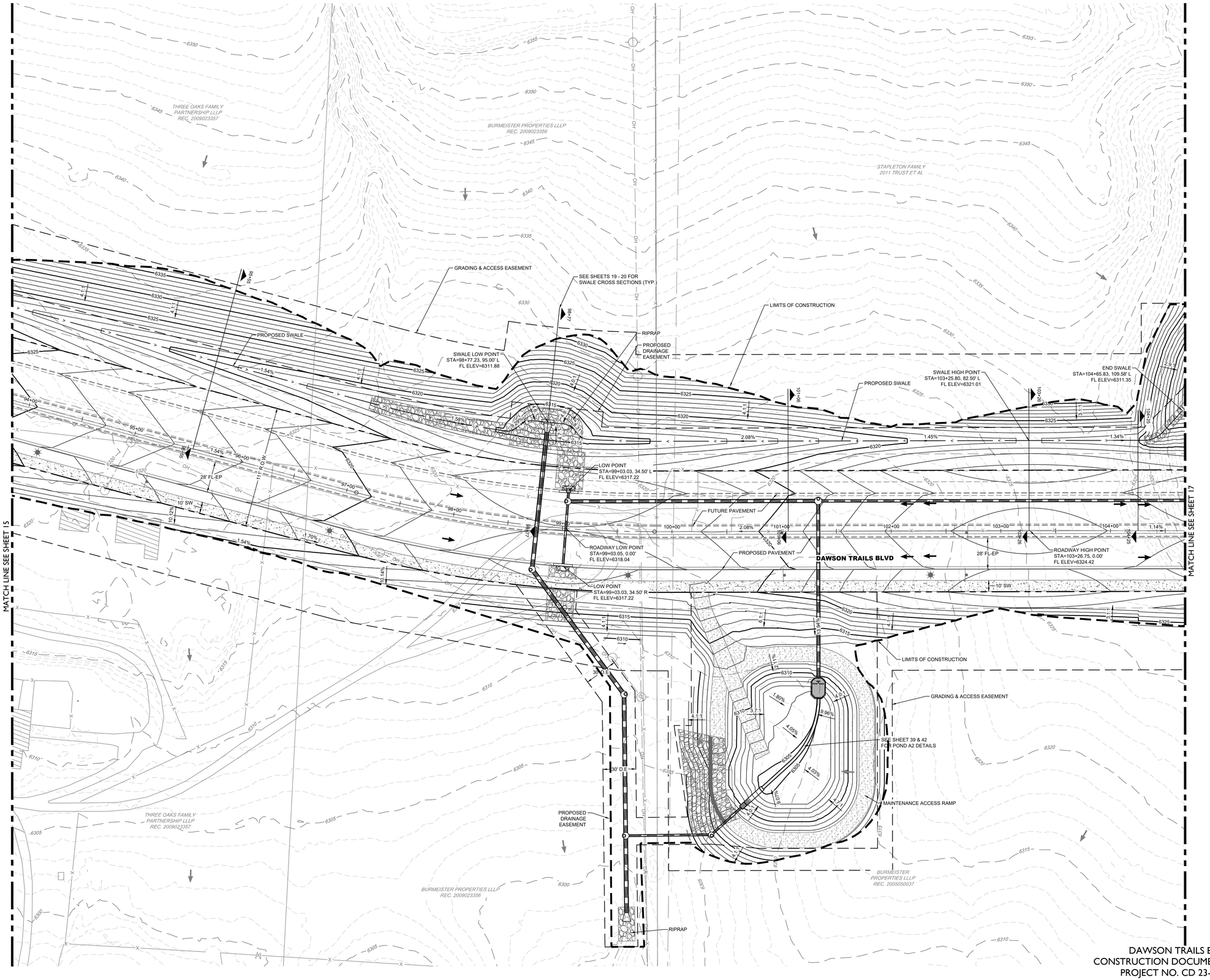
WESTSIDE

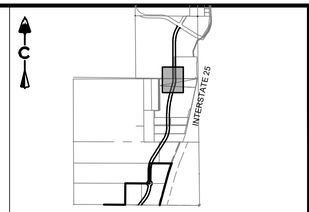
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
15 OF 70

2025-10-01 (6:29 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs DETAILED GRADING.dwg





KEY MAP
SCALE: 1"= 3000'

0 40' 80'
1 inch = 40 ft.

LEGEND

- 5280 — PROPOSED MAJOR CONTOUR
- 5279 — PROPOSED MINOR CONTOUR
- 5280 — EXISTING MAJOR CONTOUR
- 5279 — EXISTING MINOR CONTOUR
- DIRECTIONAL FLOW ARROW
- EMERGENCY OVERFLOW ROUTE
- 5150 — SPOT ELEVATION
- LOT TYPE — (A) TF= 5150.0 — TOP OF FOUNDATION ELEVATION
- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- FUTURE CURB & GUTTER
- RETAINING WALL
- LIMITS OF CONSTRUCTION
- EX. 100 YEAR FLOODPLAIN
- PR. 100 YEAR FLOODPLAIN
- WETLAND
- (1)(2)(3)(4) BLOCK NUMBER
- (A)(B)(W)(T) A LOT, B LOT, WALKOUT, TRANSITION
- EXISTING / PROPOSED — STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT
- CRUSHER FINES MAINTENANCE ACCESS
- RIPRAP

ABBREVIATIONS:

BOTM	BOTTOM
FLPN	FLOODPLAIN
TF	TOP OF FOUNDATION
HP	HIGH POINT
LP	LOW POINT
EP	EDGE OF PAVEMENT

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
GRADING PLAN (4 OF 6)

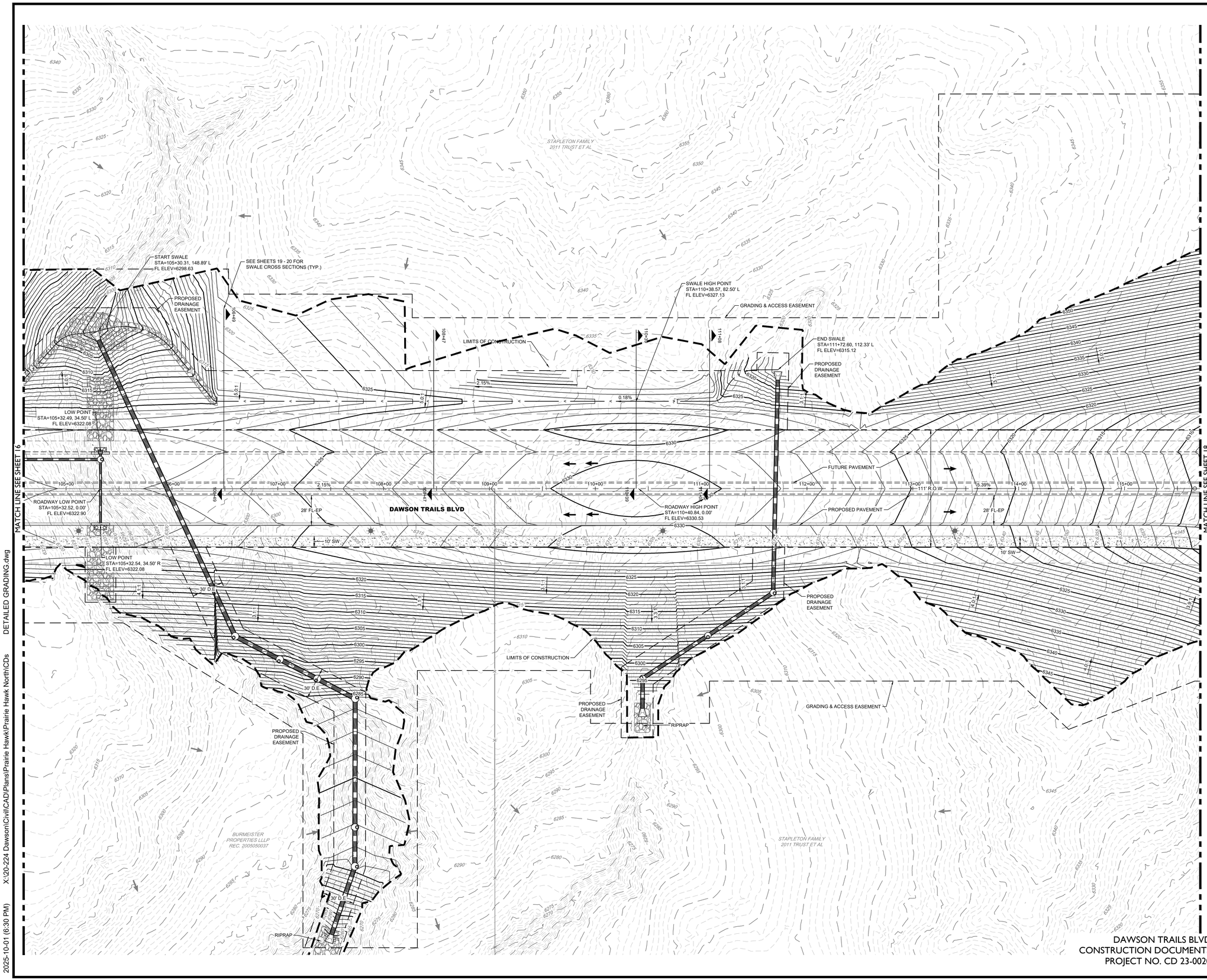
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

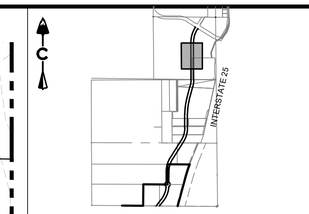
JOB NO. 20-224

SHEET 16 OF 70

2025-10-01 (6:29 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs DETAILED GRADING.dwg



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020



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STATE OF COLORADO # 48230

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DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
GRADING PLAN (5 OF 6)

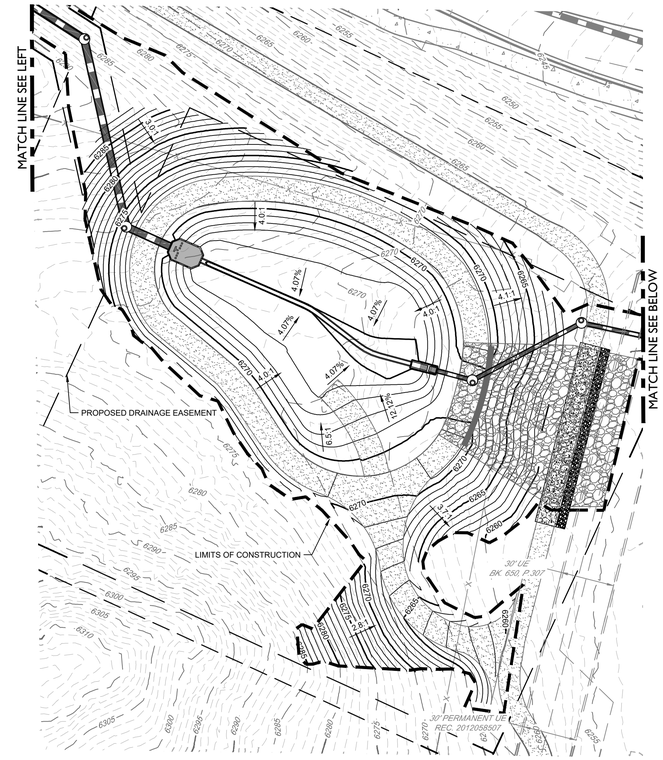
WESTSIDE

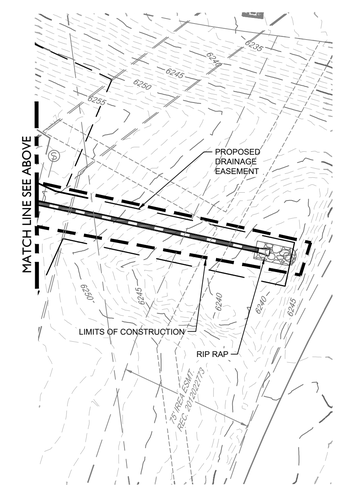
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

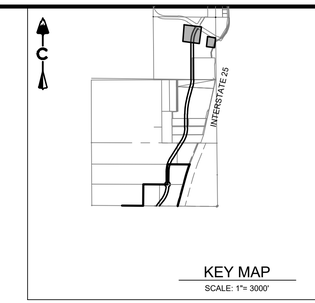
JOB NO.
20-224

SHEET
17 OF 70

2025-10-01 (6:30 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs DETAILED GRADING.dwg







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STATE OF COLORADO # 48230

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DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
GRADING PLAN (6 OF 6)

WESTSIDE

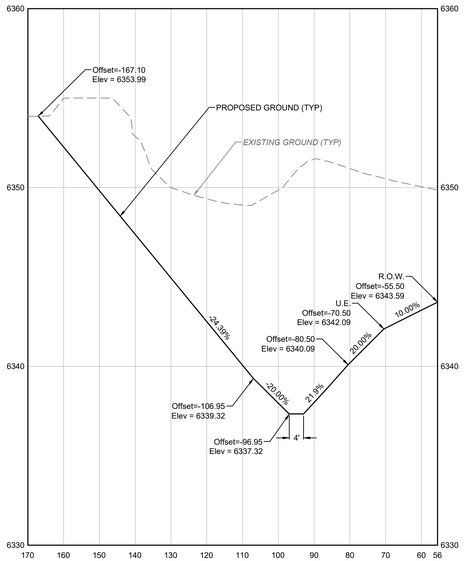
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 18 OF 70

2025-10-01 (6:30 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs DETAILED GRADING.dwg

62+72



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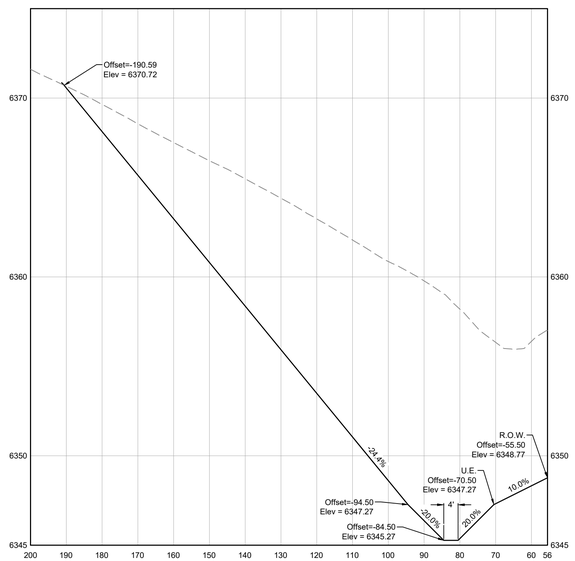

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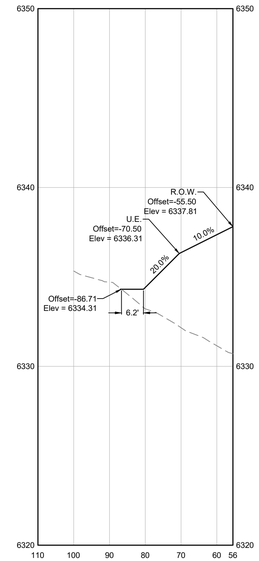

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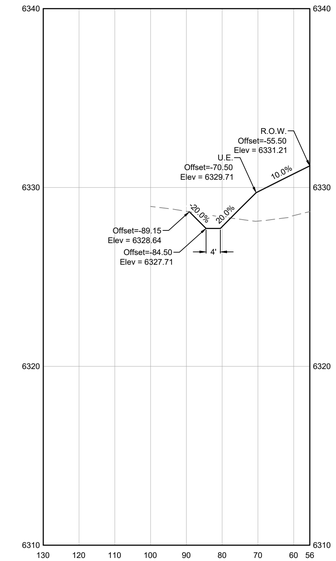

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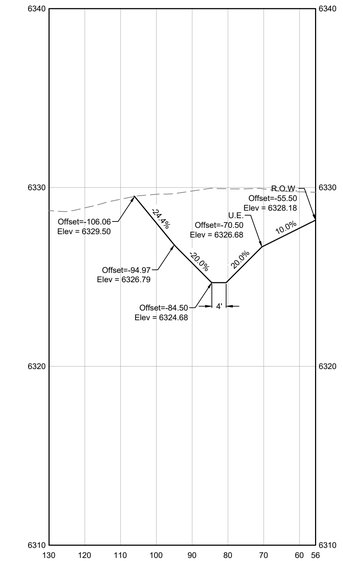

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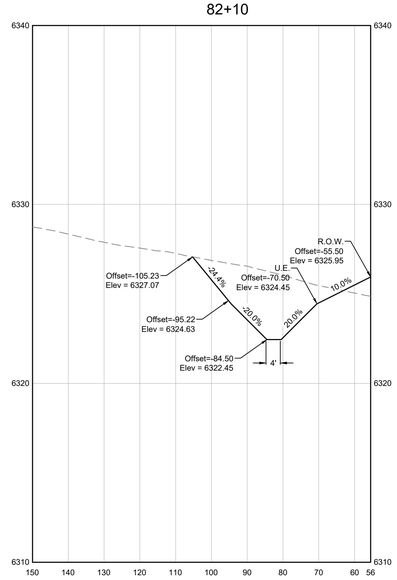

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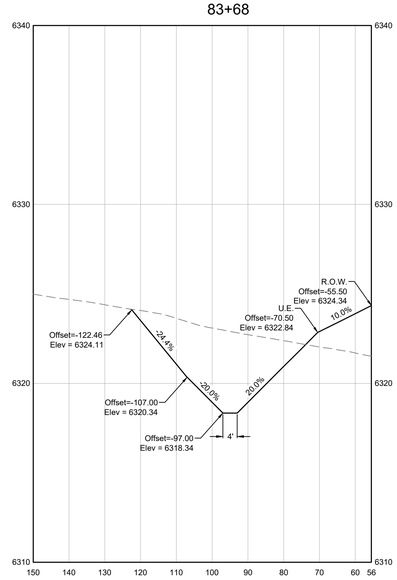

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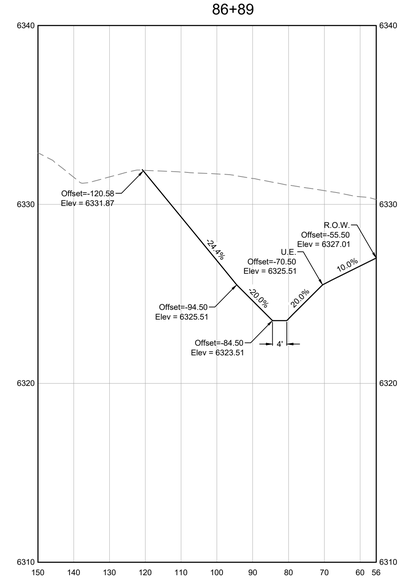

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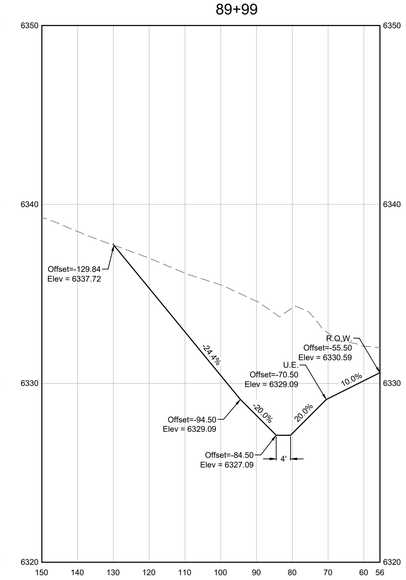

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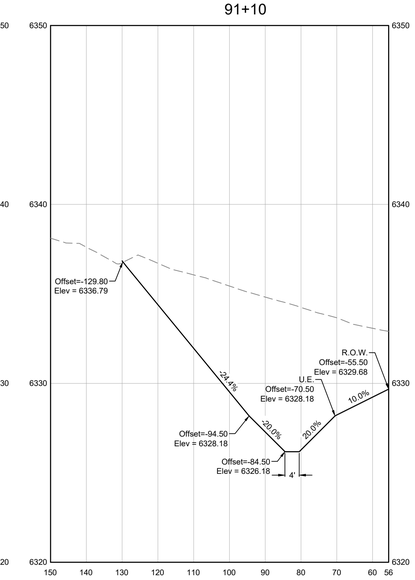

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

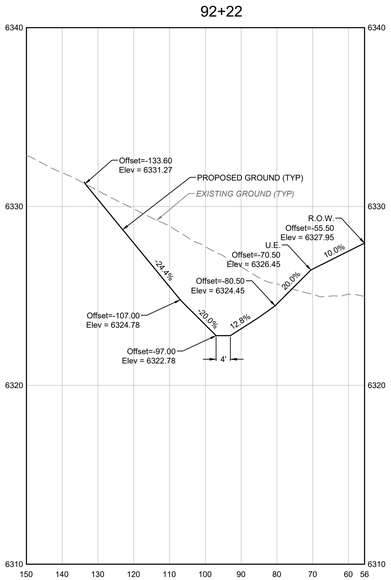
CONSTRUCTION DOCUMENTS
SWALE SECTION (1 OF 2)

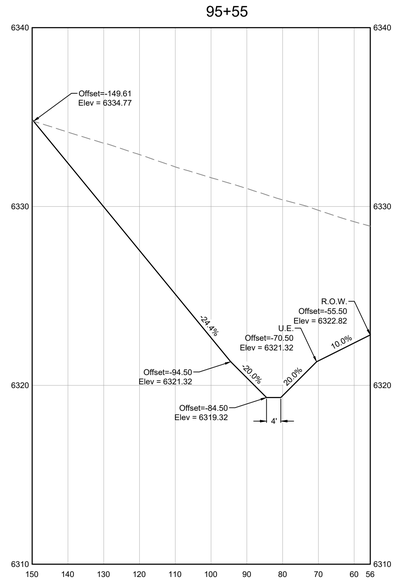
WESTSIDE

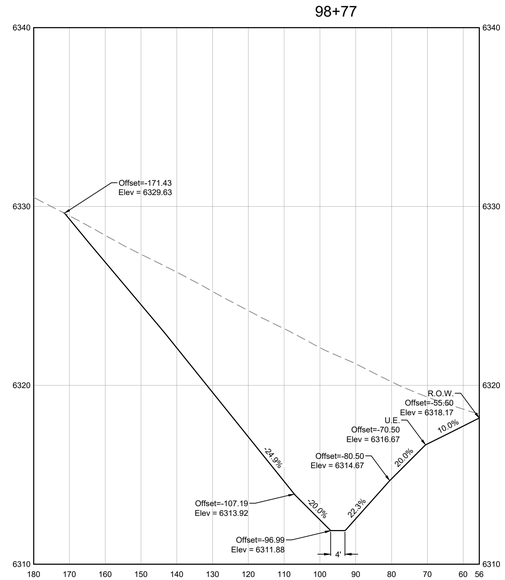
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

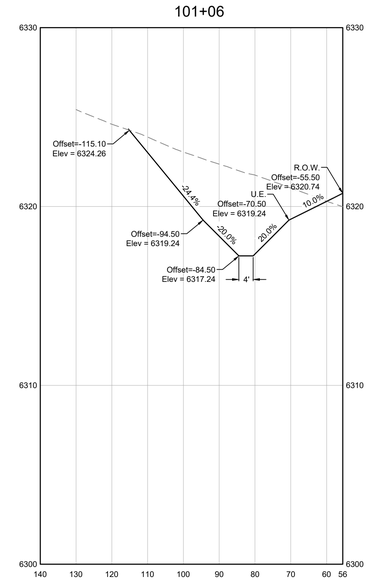
JOB NO.
20-224

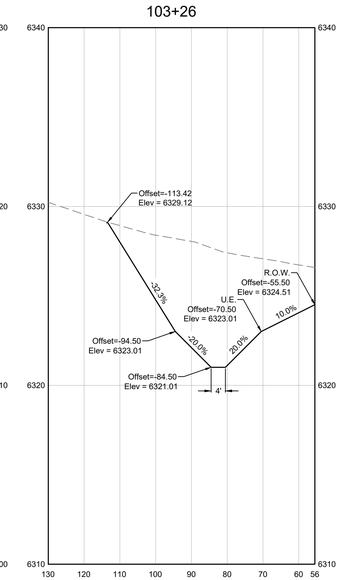
SHEET
19 OF 70

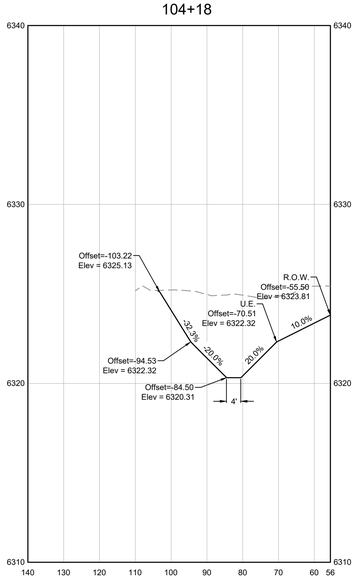


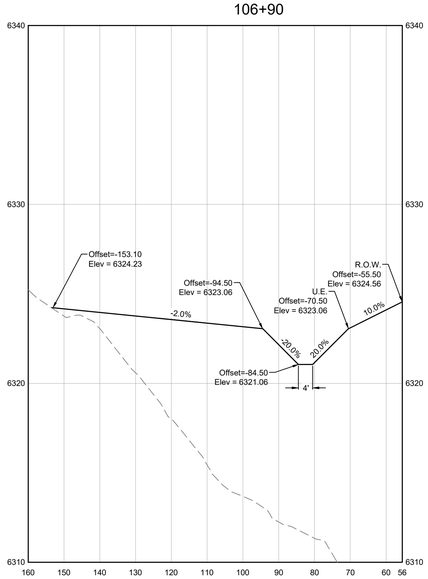


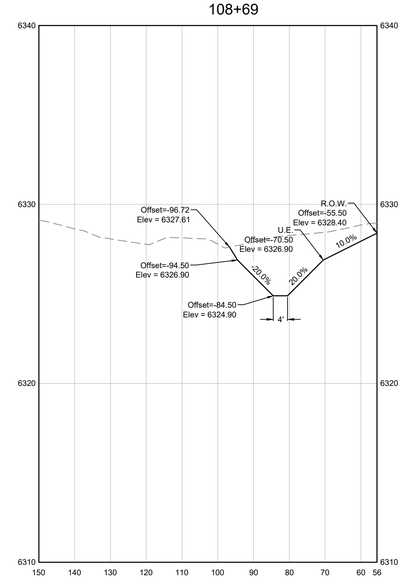


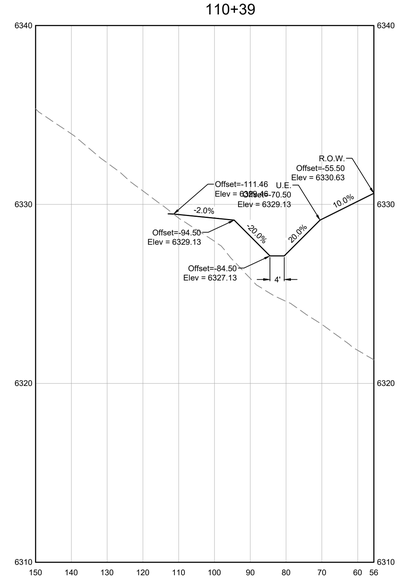


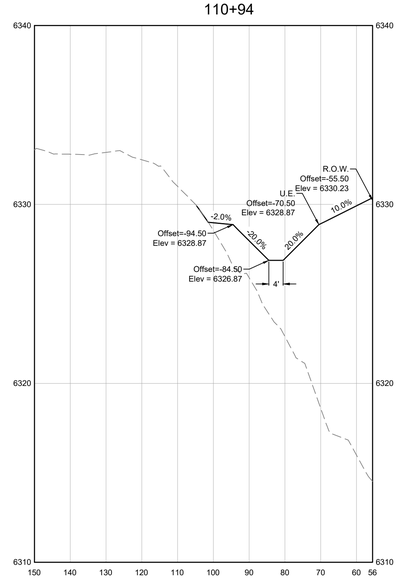












DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

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DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
SWALE SECTION (2 OF 2)

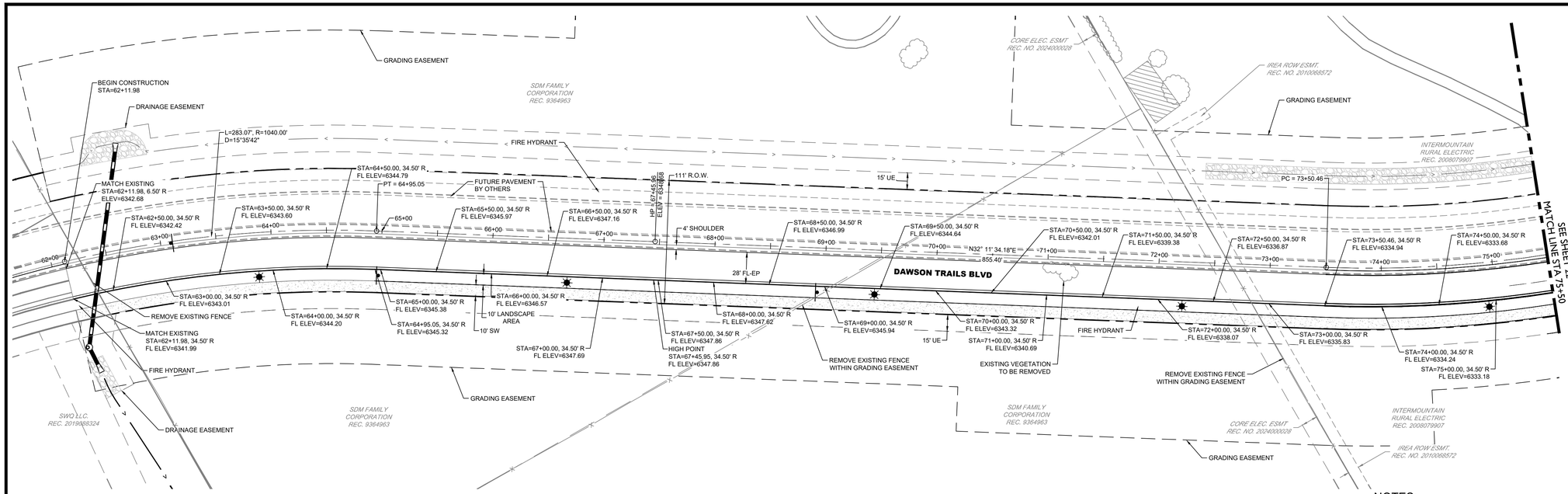
WESTSIDE

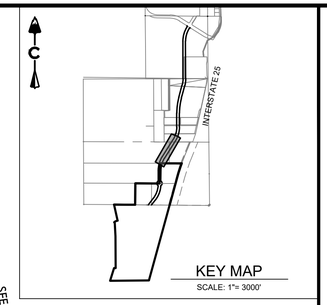
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
20 OF 70

2025-10-01 (6:30 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs SWALE SECTIONS.dwg





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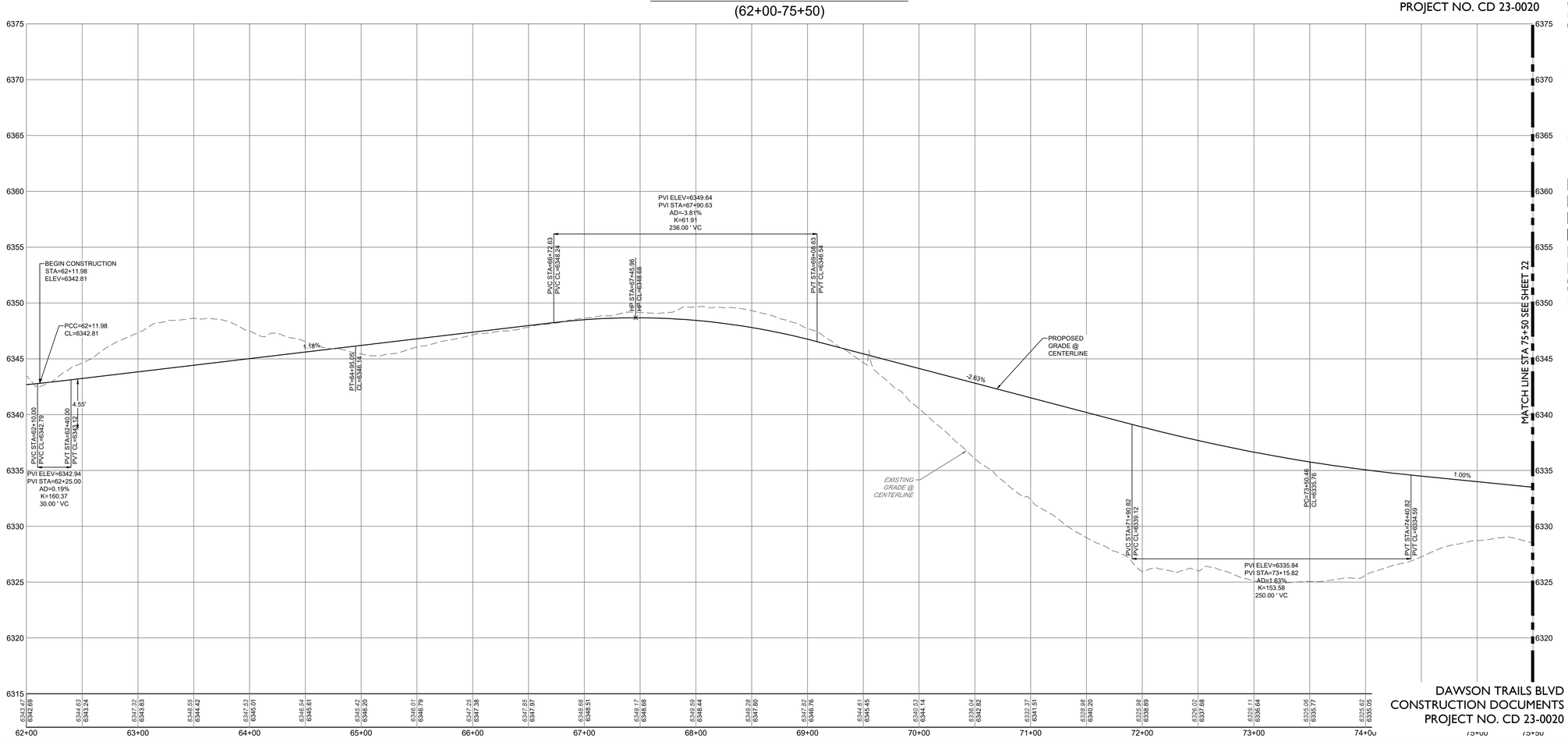
DAWSON TRAILS BLVD

(62+00-75+50)



NOTES:

1. FOR SIGNAGE AND STRIPING PLANS, SEE SHEETS 50-55.

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

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- CENTERLINE
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- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
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- RETAINING WALL

EXISTING PROPOSED

- STREET LIGHT POLES
- STREET SIGNS
- RAMPS
- POWER POLES
- GUY WIRE
- SANITARY MANHOLES
- WATER VALVES
- FIRE HYDRANTS
- AIR RELEASE VALVE MH & VENT PIPE
- STORM MANHOLES
- STORM INLETS
- BLOCK NUMBER
- CRUSHER FINES MAINTENANCE ACCESS
- CONCRETE
- RIPRAP
- CROWN TRANSITION AREA
- EXISTING GRAVEL ROAD
- EXISTING ASPHALT PAVEMENT
- APPROXIMATE SAWCUT LIMITS
- EXISTING FENCE
- EXISTING OVER HEAD ELECTRIC

ABBREVIATIONS:

BOTM	BOTTOM	HP	HIGH POINT
EP	EDGE OF PAVEMENT	LP	LOW POINT
FLPN	FLOODPLAIN	TF	TOP OF FOUNDATION
GE	GRADING EASEMENT	WT	WATER

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

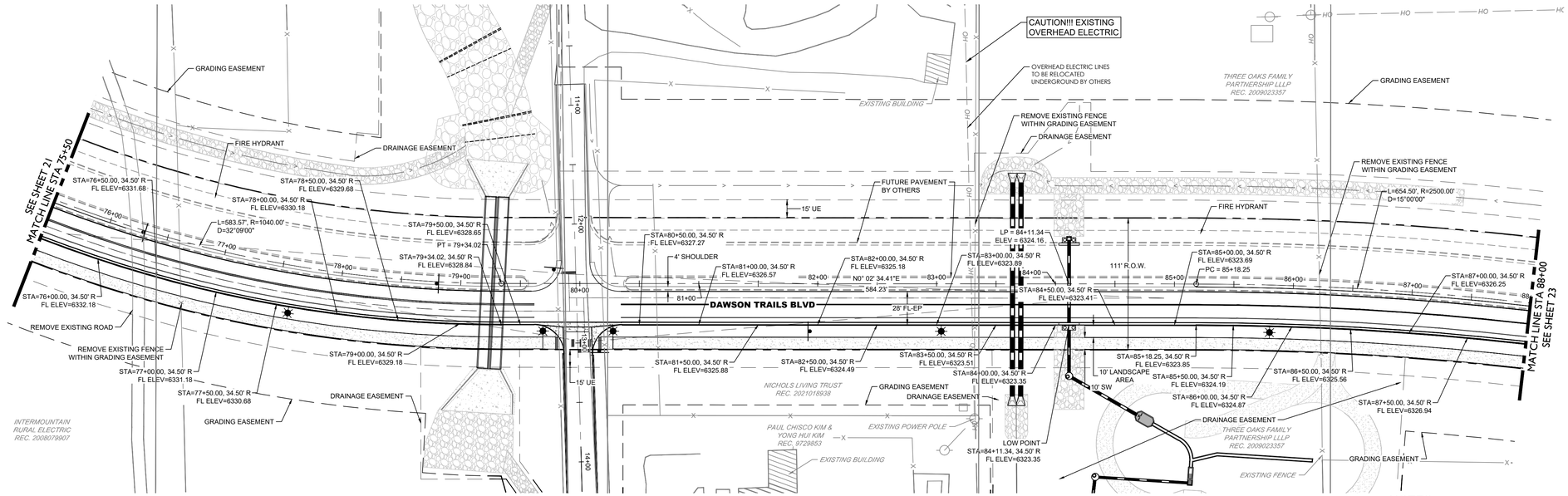
CONSTRUCTION DOCUMENTS
ROADWAY P&P (1 OF 6)

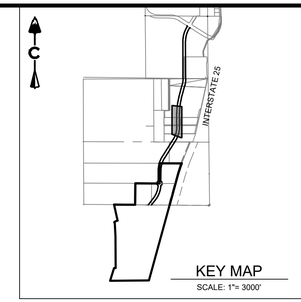
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 21 OF 70





KEY MAP
SCALE: 1"= 3000'

0 50' 100'
1 inch = 50 ft.

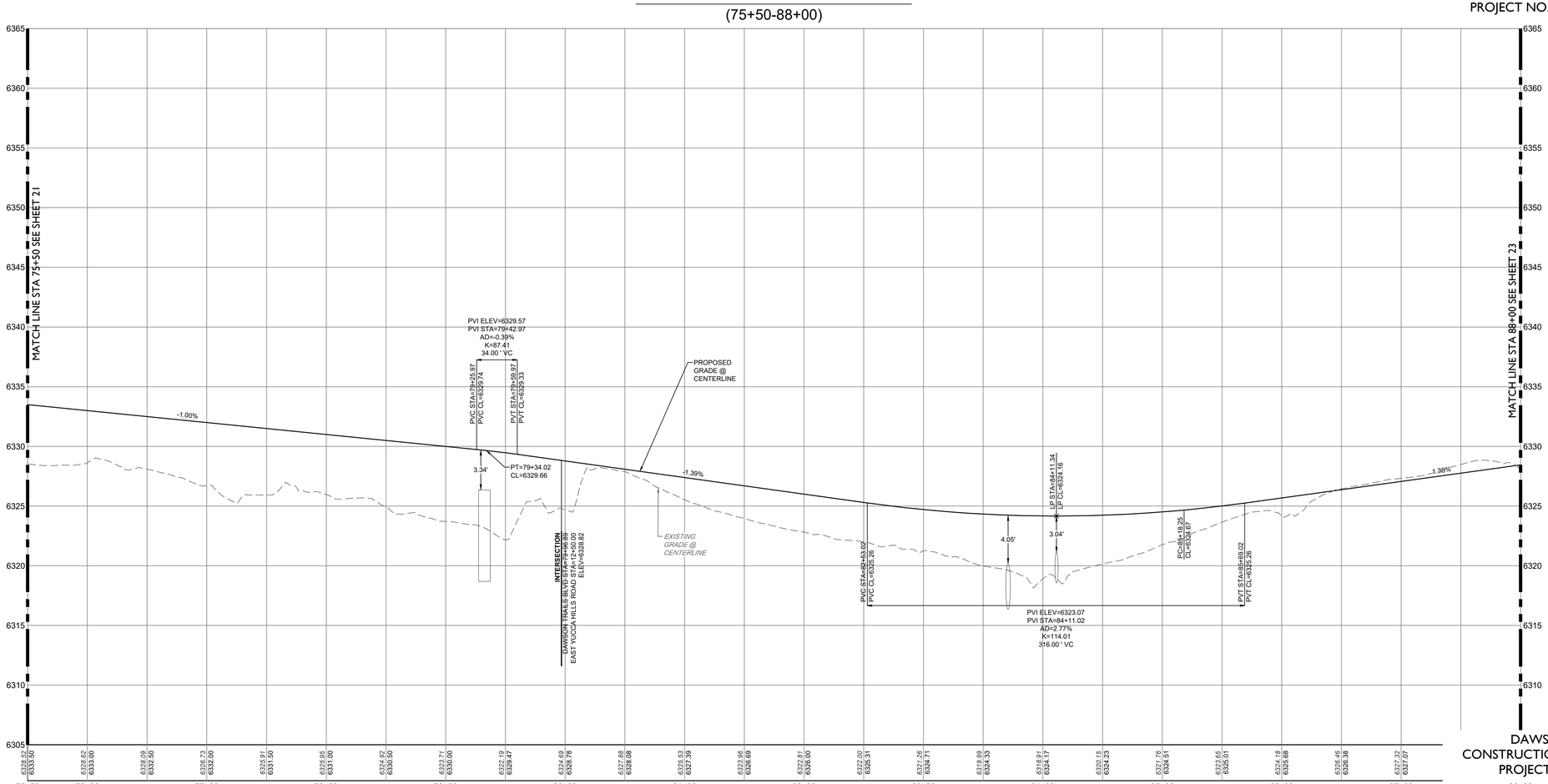
NOTES:

1. FOR SIGNAGE AND STRIPING PLANS, SEE SHEETS 50-55.

DAWSON TRAILS BLVD

(75+50-88+00)

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- EXISTING LOT LINE
- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL

EXISTING PROPOSED

- STREET LIGHT POLES
- STREET SIGNS
- RAMPS
- POWER POLES
- GUY WIRE
- SANITARY MANHOLES
- WATER VALVES
- FIRE HYDRANTS
- AIR RELEASE VALVE MH & VENT PIPE
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- STORM INLETS
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- EXISTING ASPHALT PAVEMENT
- APPROXIMATE SAWCUT LIMITS
- EXISTING FENCE
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ABBREVIATIONS:

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EP	EDGE OF PAVEMENT	LP	LOW POINT
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GE	GRADING EASEMENT	WT	WATER

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

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DEVELOPMENT SERVICES DATE

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

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2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
ROADWAY P&P (2 OF 6)

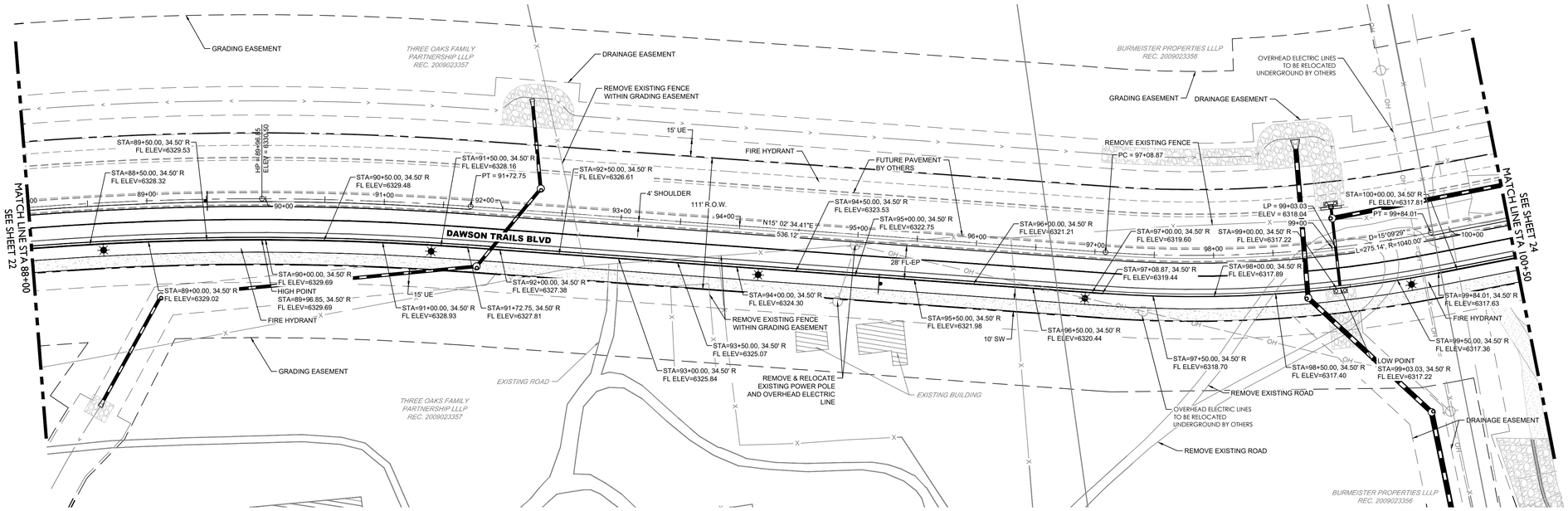
WESTSIDE

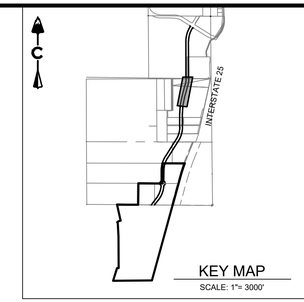
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 22 OF 70

2025-10-01 (6:31 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs ROADWAY P&P.dwg





0 50' 100'

1 inch = 50 ft.

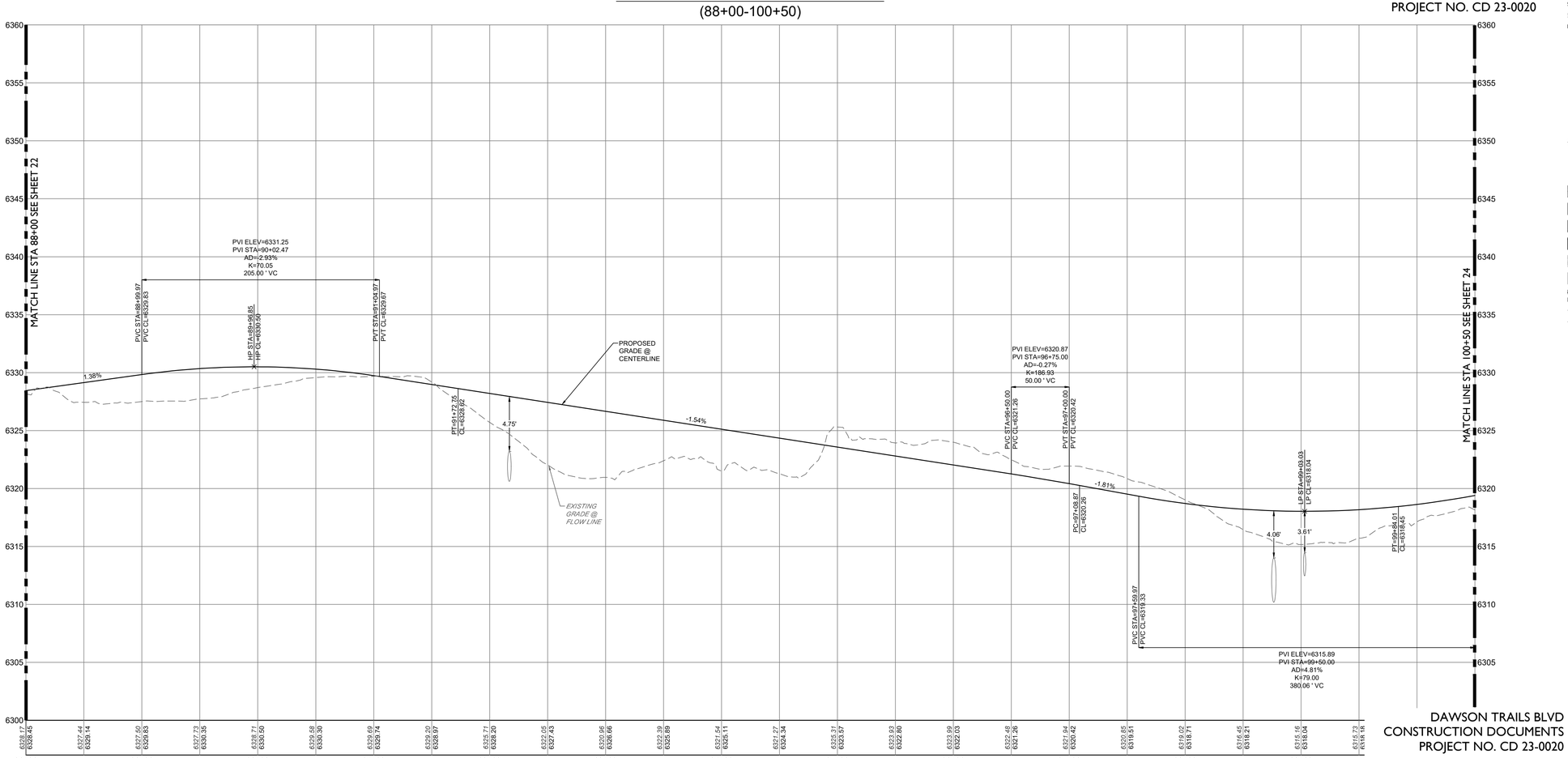
NOTES:

1. FOR SIGNAGE AND STRIPING PLANS, SEE SHEETS 50-55.

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

DAWSON TRAILS BLVD

(88+00-100+50)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- EXISTING LOT LINE
- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL

EXISTING PROPOSED

- STREET LIGHT POLES
- STREET SIGNS
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STATE OF COLORADO # 48230

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CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
ROADWAY P&P (3 OF 6)

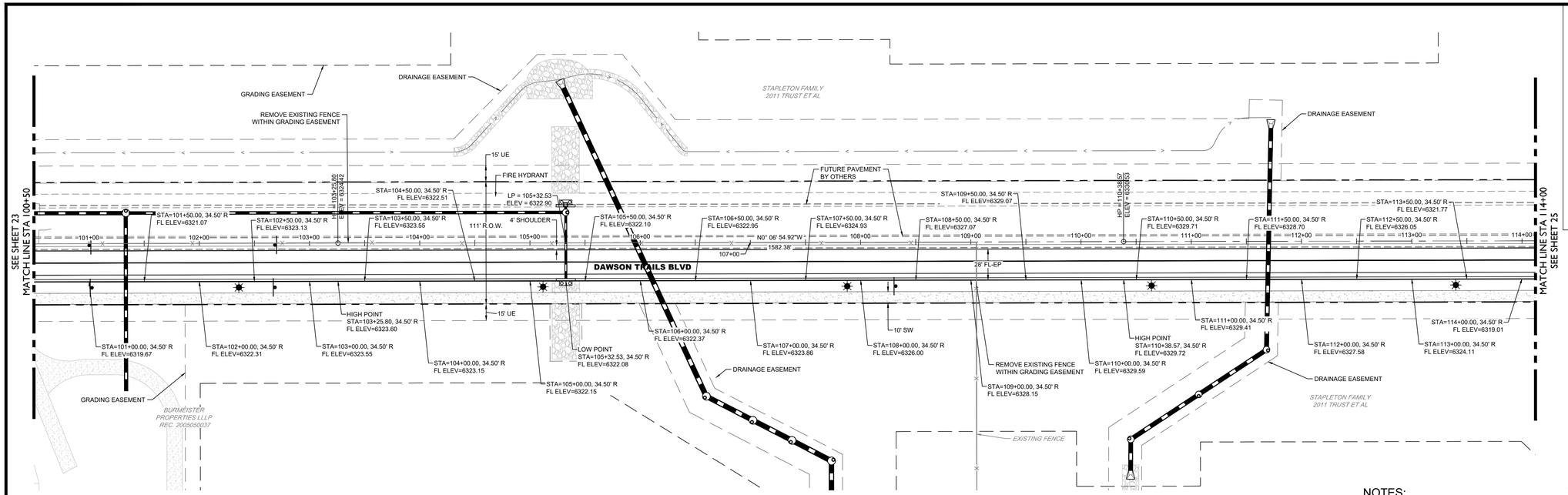
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

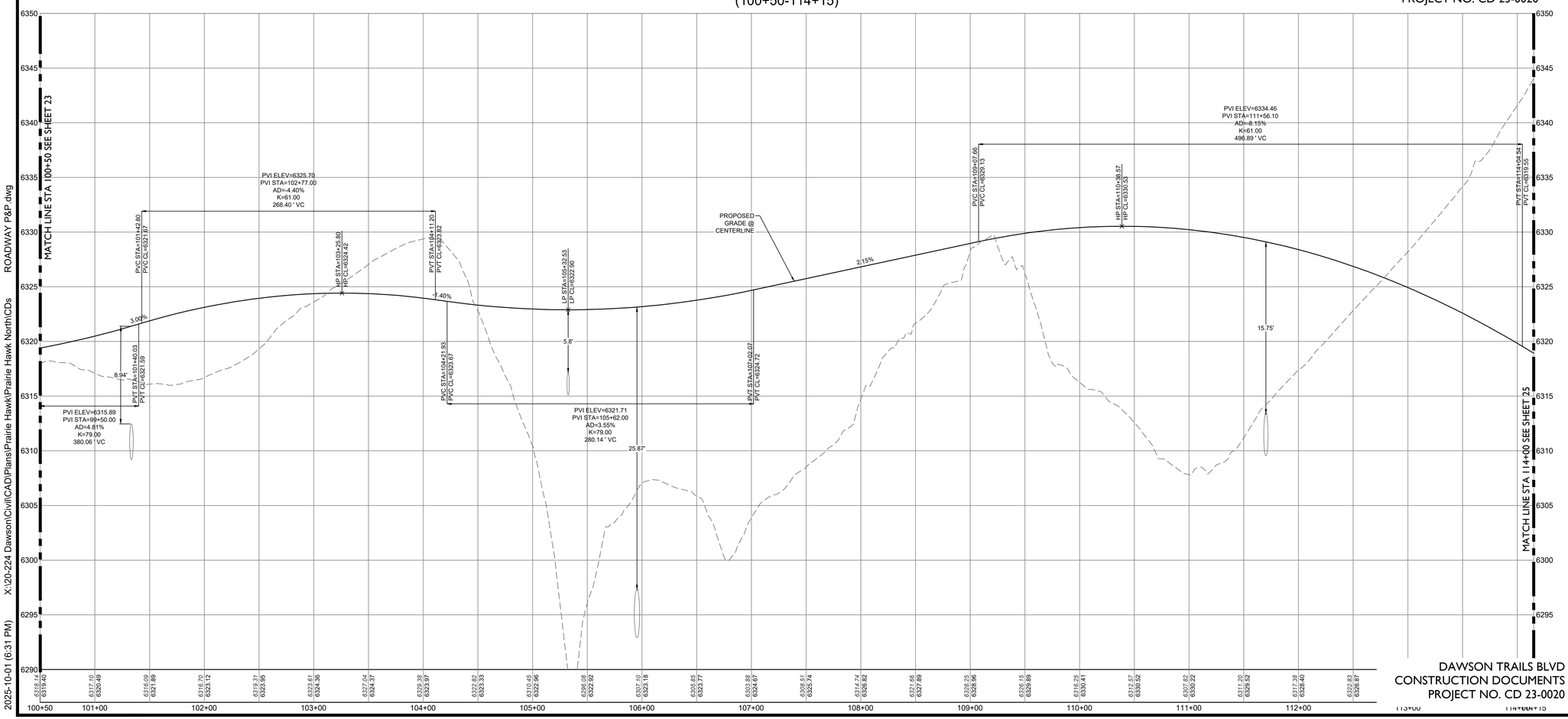
SHEET 23 OF 70

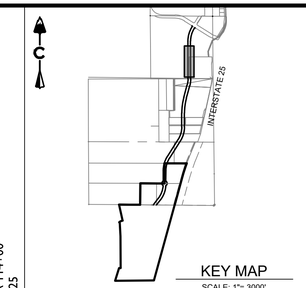
2025-10-01 (6:31 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs ROADWAY P&P.dwg



DAWSON TRAILS BLVD

(100+50-114+15)





KEY MAP

SCALE: 1"= 3000'

0 50' 100'

1 inch = 50 ft.

NOTES:

1. FOR SIGNAGE AND STRIPING PLANS, SEE SHEETS 50-55.

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- EXISTING LOT LINE
- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL

EXISTING PROPOSED

- STREET LIGHT POLES
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- RAMPS
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- FIRE HYDRANTS
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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

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DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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#	REVISION DESCRIPTION	DATE	BY
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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
ROADWAY P&P (4 OF 6)

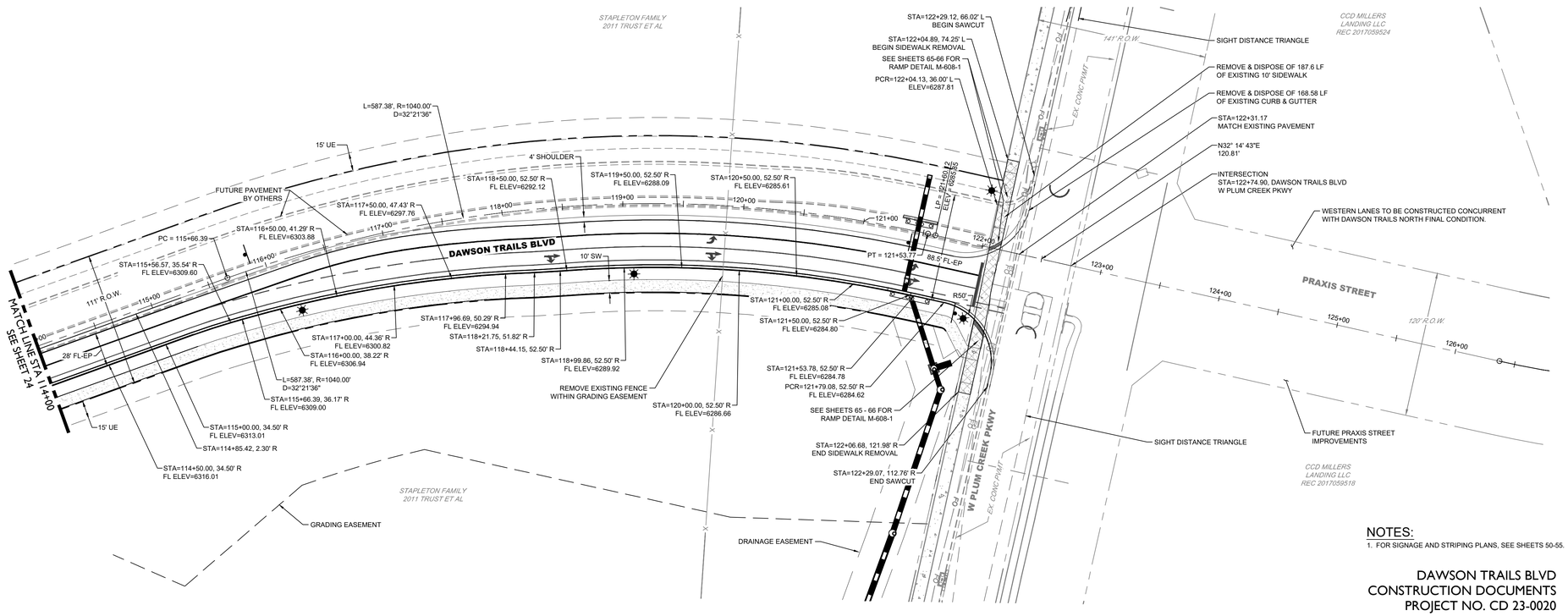
WESTSIDE

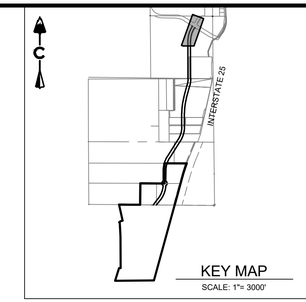
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 24 OF 70

2025-10-01 (6:31 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs ROADWAY P&P.dwg





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0 50' 100'
1 inch = 50 ft.

NOTES:

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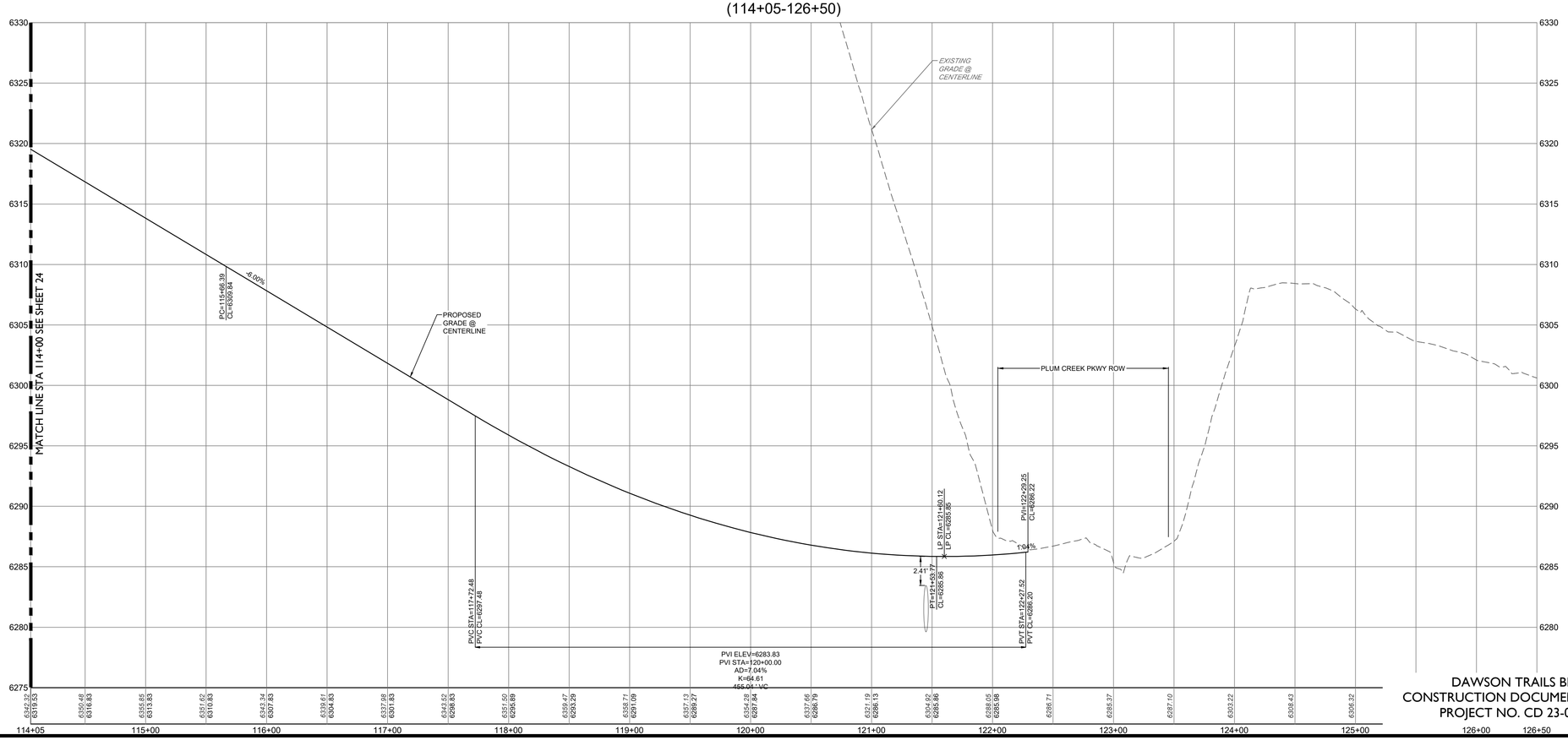
DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

DAWSON TRAILS BLVD

(114+05-126+50)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- EXISTING LOT LINE
- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL
- STREET LIGHT POLES (EXISTING / PROPOSED)
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- RAMPS
- POWER POLES
- GUY WIRE
- SANITARY MANHOLES
- WATER VALVES
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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

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DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

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DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
ROADWAY P&P [5 OF 6]

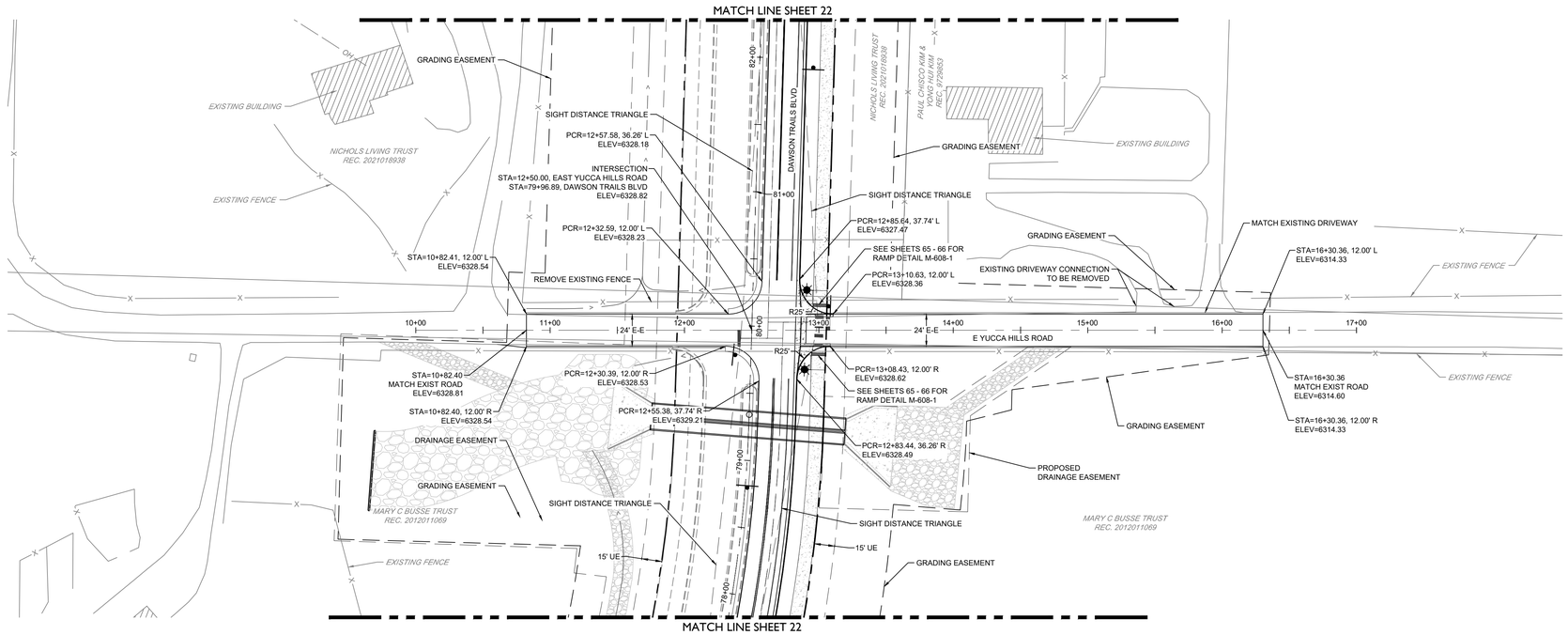
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

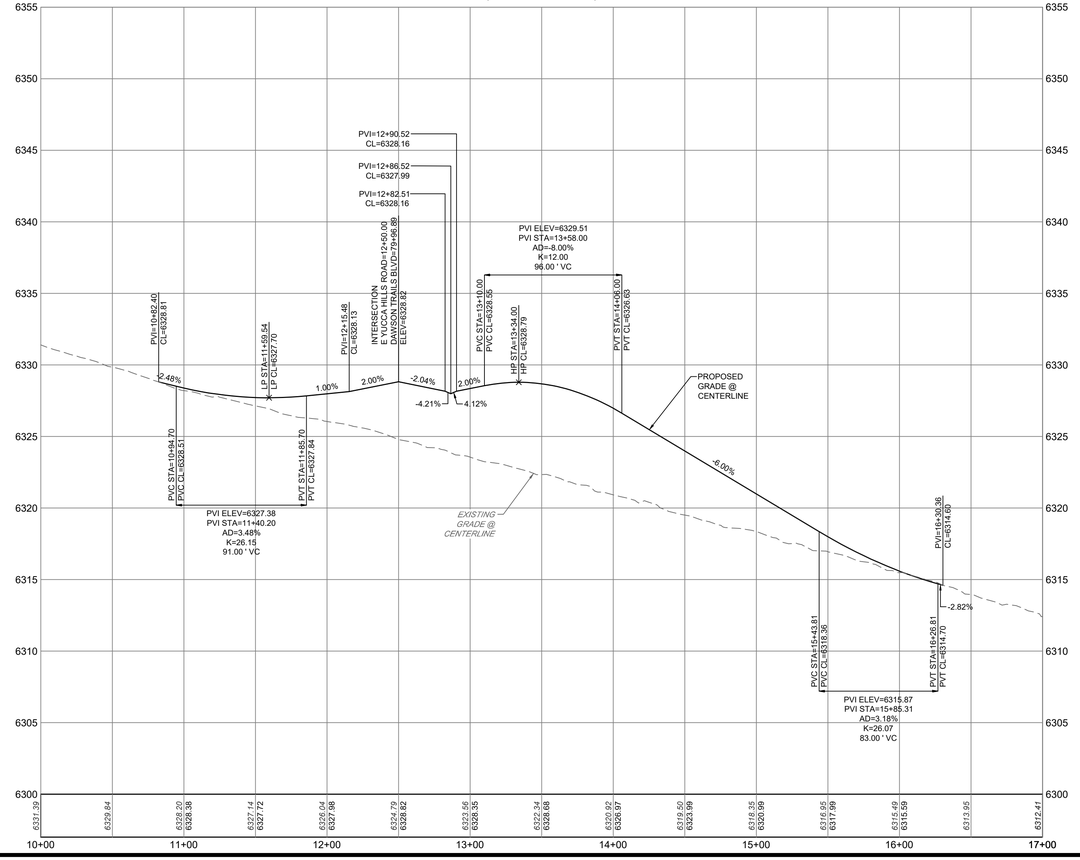
SHEET 25 OF 70

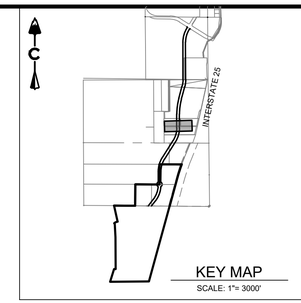
2025-10-01 (6:32 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs ROADWAY P&P.dwg



EAST YUCCA HILLS ROAD

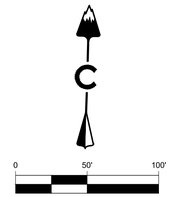
(10+00-17+00)





KEY MAP

SCALE: 1"= 3000'



1 inch = 50 ft.

NOTES:

1. FOR SIGNAGE AND STRIPING PLANS, SEE SHEETS 50-55.

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- EXISTING LOT LINE
- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL

EXISTING PROPOSED

- STREET LIGHT POLES
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DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
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LAND DEVELOPMENT
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PUBLIC INFRASTRUCTURE

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
ROADWAY P&P (6 OF 6)

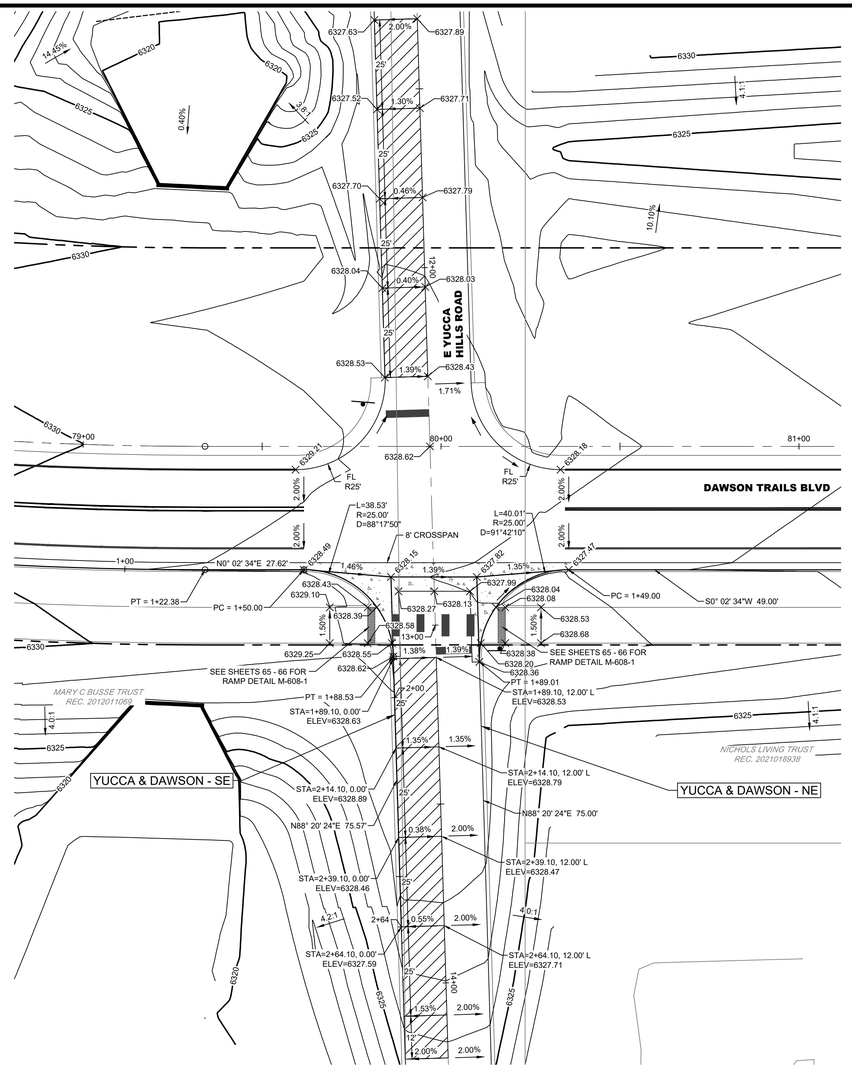
WESTSIDE

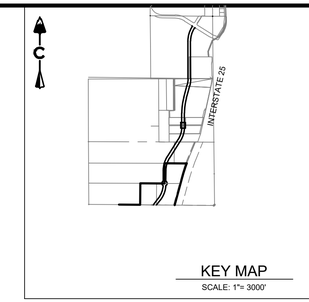
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
26 OF 70

2025-10-01 (6:32 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs ROADWAY P&P.dwg





0 20' 40'

1 inch = 20 ft.

PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
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- SIGHT TRIANGLE
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- BLOCK NUMBER
- CRUSHER FINES MAINTENANCE ACCESS
- CONCRETE
- RIPRAP
- CROWN TRANSITION AREA
- EXISTING GRAVEL ROAD
- EXISTING ASPHALT PAVEMENT
- APPROXIMATE SAWCUT LIMITS
- EXISTING FENCE
- EXISTING OVER HEAD ELECTRIC

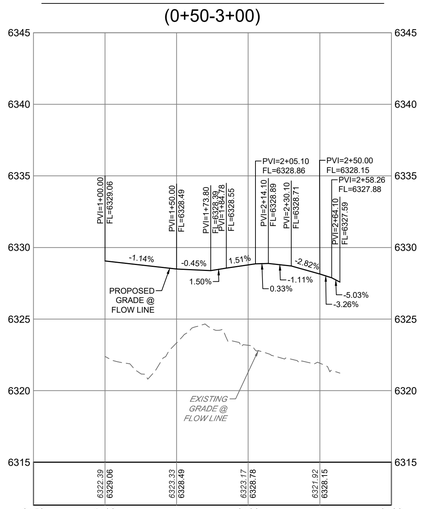
ABBREVIATIONS:

BOTM	BOTTOM	HP	HIGH POINT
EP	EDGE OF PAVEMENT	LP	LOW POINT
FLPN	FLOODPLAIN	TF	TOP OF FOUNDATION
GE	GRADING EASEMENT	WT	WATER

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

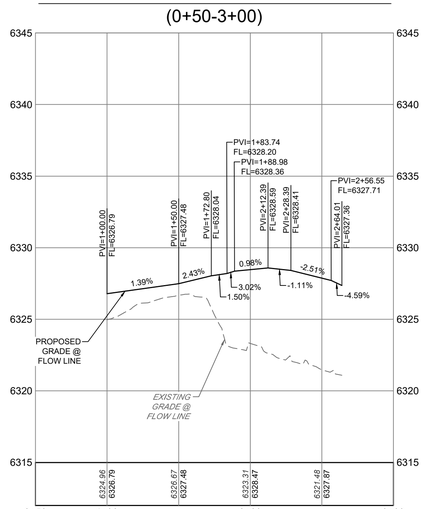
YUCCA & DAWSON - SE

(0+50-3+00)



YUCCA & DAWSON - NE

(0+50-3+00)



PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVETOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
INTERSECTION

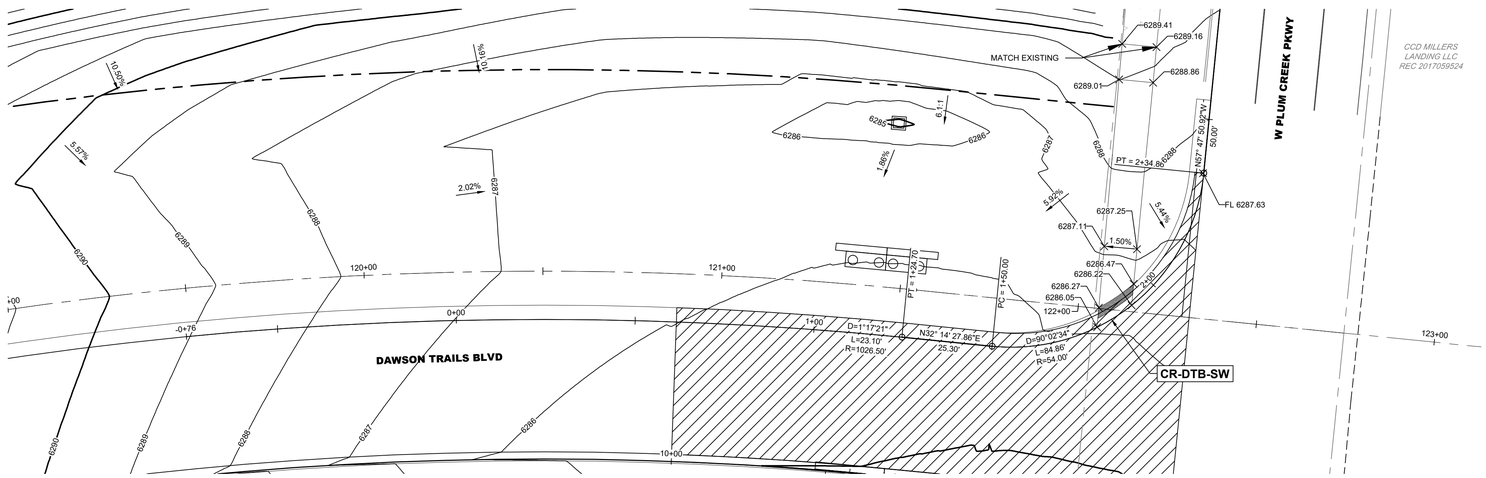
WESTSIDE

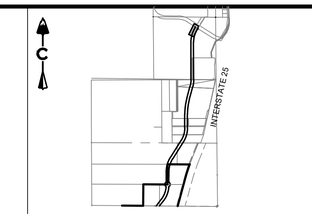
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
27 OF 70

2025-10-01 (6:34 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs INTERSECTION P&P.dwg





KEY MAP

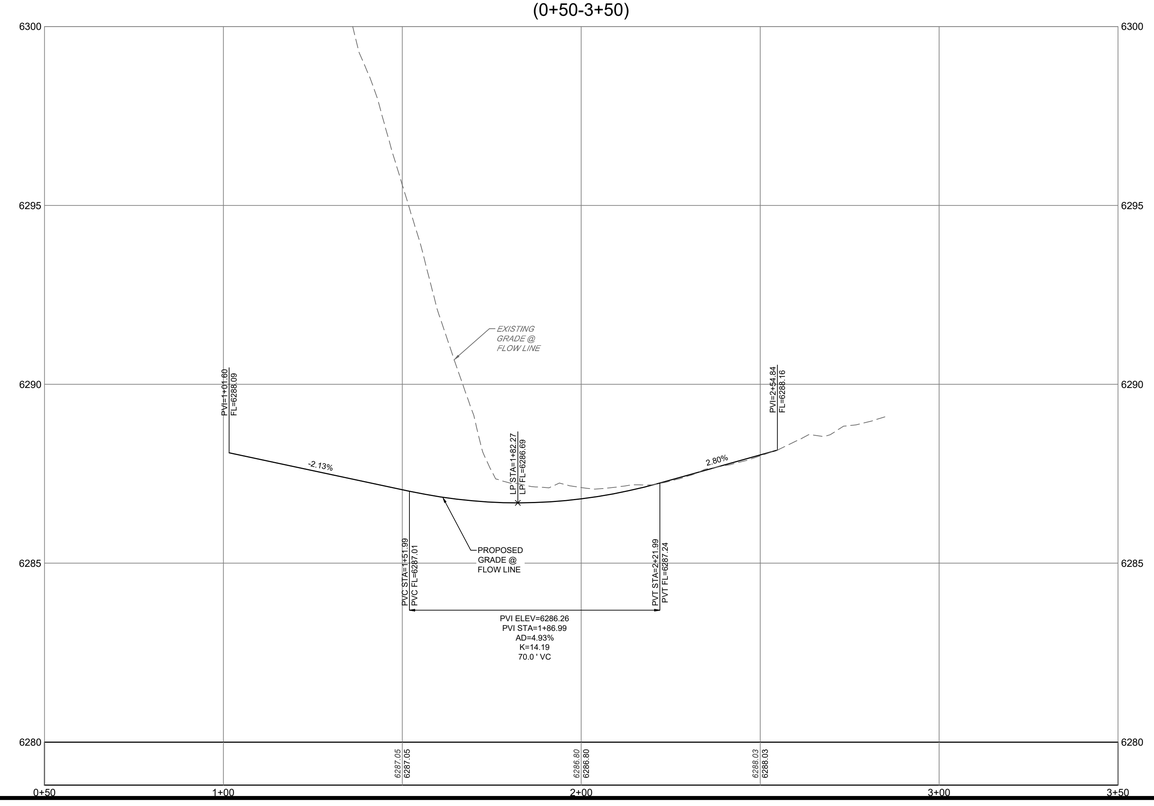
SCALE: 1"= 3000'

0 20' 40'

1 inch = 20 ft.

CR-DTB-SW

(0+50-3+50)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CONTRACTOR TO CONFIRM EXISTING PLUM CREEK FLOW LINE ELEVATIONS PRIOR TO CONSTRUCTION.

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- EXISTING LOT LINE
- SIGHT TRIANGLE
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- RETAINING WALL

EXISTING / PROPOSED

- STREET LIGHT POLES
- STREET SIGNS
- RAMPS
- POWER POLES
- GUY WIRE
- SANITARY MANHOLES
- WATER VALVES
- FIRE HYDRANTS
- AIR RELEASE VALVE MH & VENT PIPE
- STORM MANHOLES
- STORM INLETS
- BLOCK NUMBER
- CRUSHER FINES MAINTENANCE ACCESS
- CONCRETE
- RIPRAP
- CROWN TRANSITION AREA
- EXISTING GRAVEL ROAD
- EXISTING ASPHALT PAVEMENT
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ABBREVIATIONS:

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3473 S. BROADWAY
ENGLEWOOD, CO 80113
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LAND DEVELOPMENT
ENERGY
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DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
INTERSECTION-01 SW

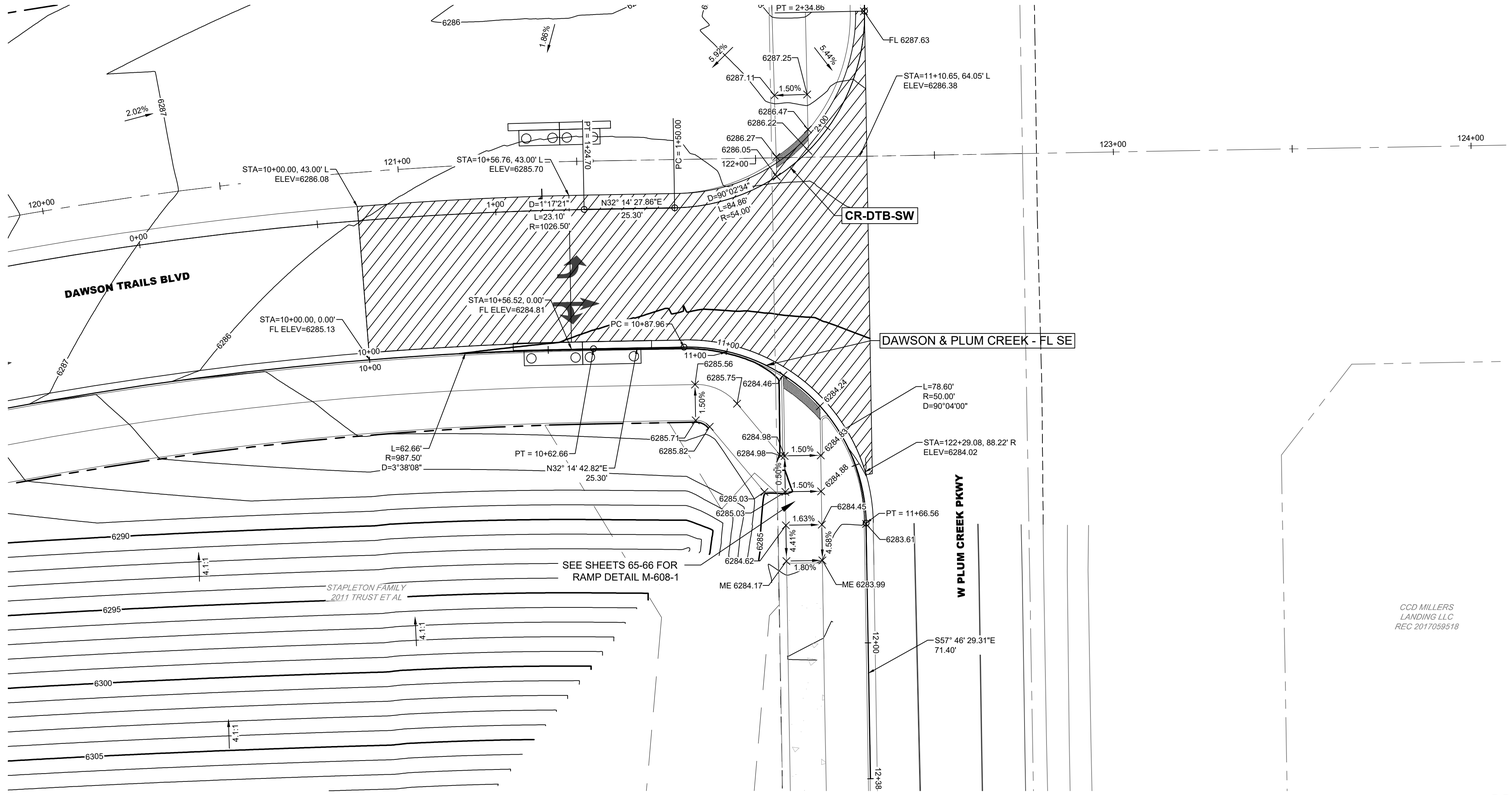
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

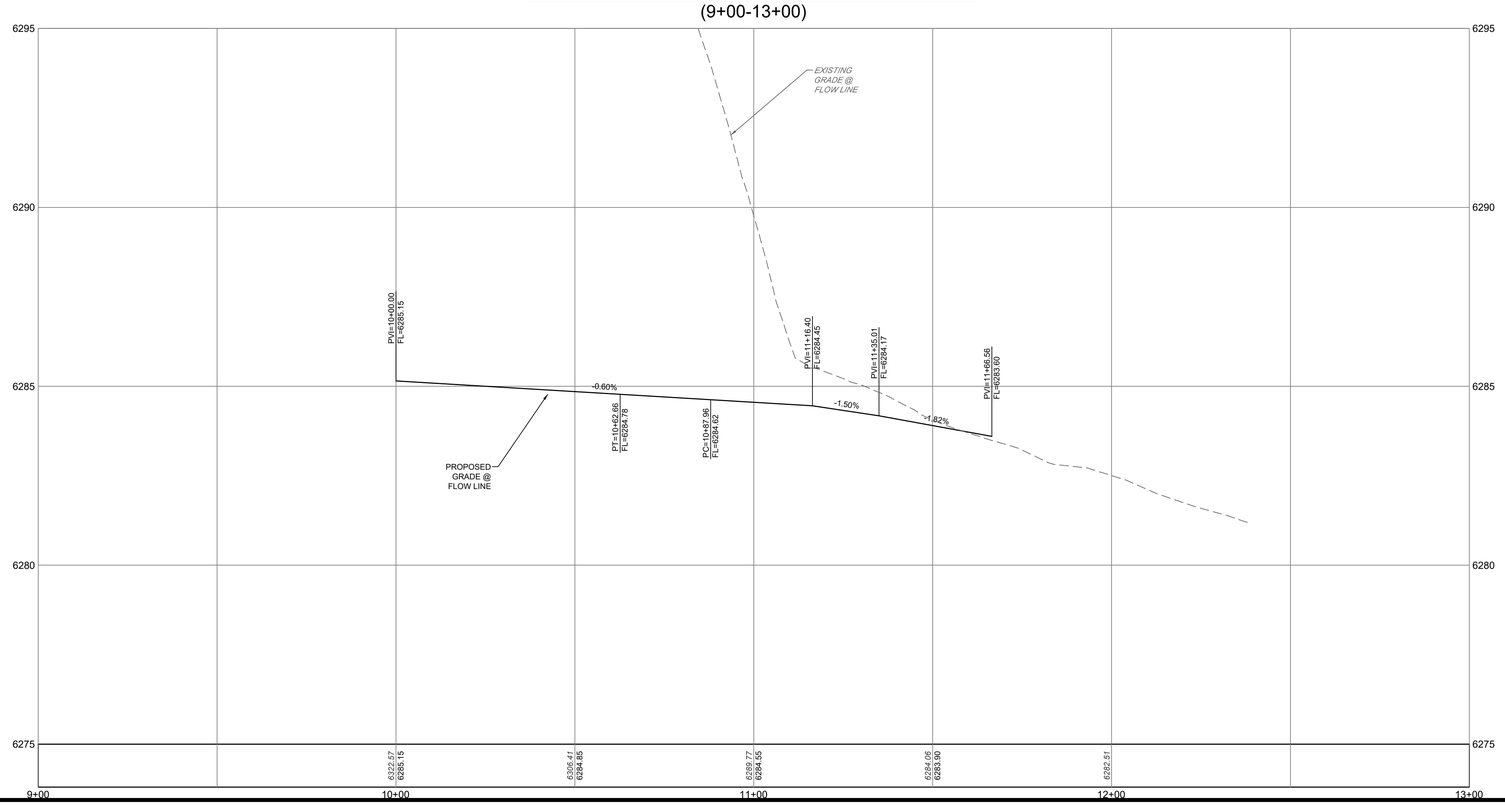
SHEET 28 OF 70

2025-10-01 (6:34 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs INTERSECTION P&P.dwg



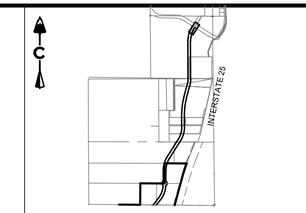
DAWSON & PLUM CREEK - FL SE

(9+00-13+00)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CONTRACTOR TO CONFIRM
EXISTING PLUM CREEK
FLOW LINE ELEVATIONS
PRIOR TO CONSTRUCTION.



KEY MAP
SCALE: 1"= 3000'

0 20' 40'
1 inch = 20 ft.

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
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ENERGY
PUBLIC INFRASTRUCTURE

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
INTERSECTION-01 SE

WESTSIDE

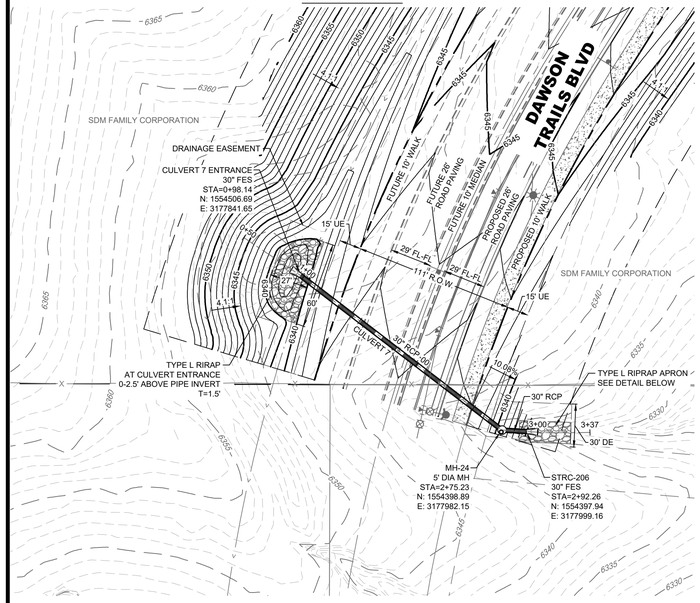
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

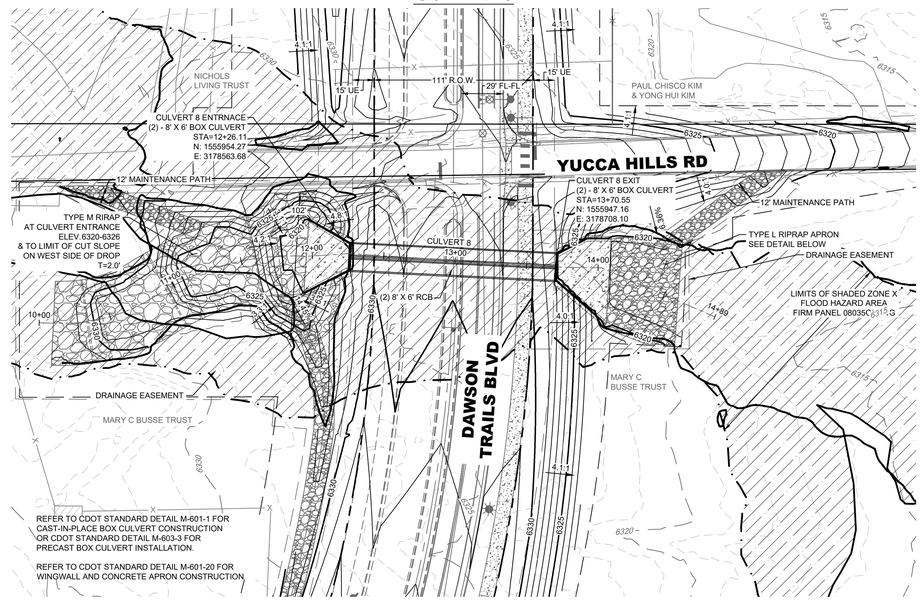
SHEET
29 OF 70

2025-10-01 (6:34 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs INTERSECTION P&P.dwg

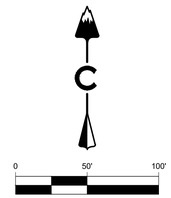
CULVERT 7



CULVERT 8



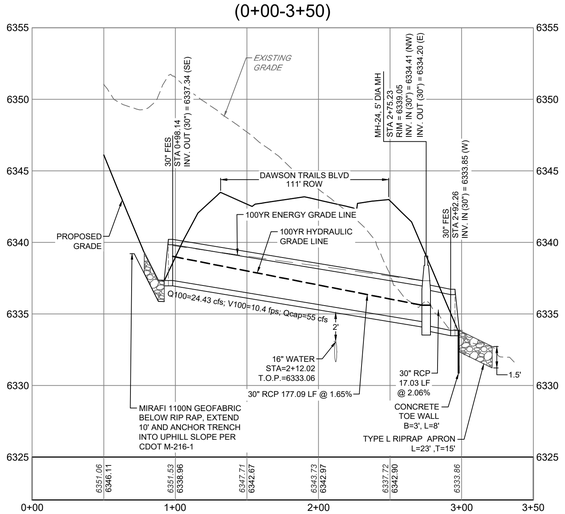
KEY MAP
SCALE: 1"= 3000'



PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

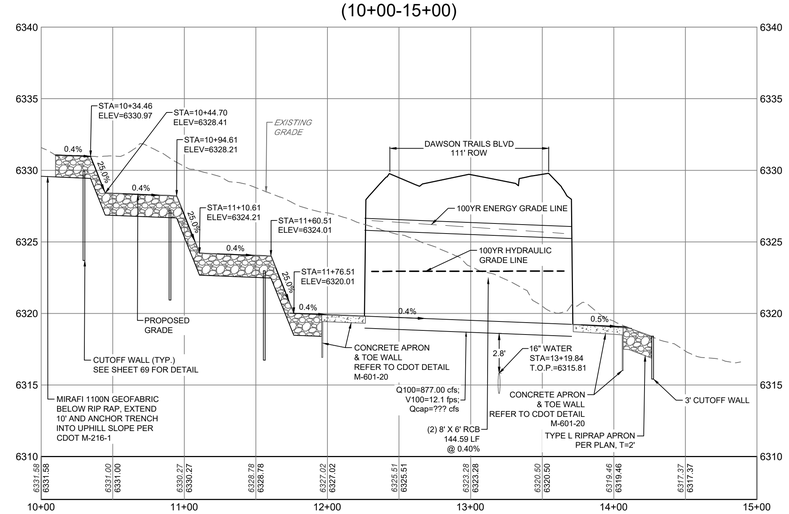
STORM - DAWSON TRAILS BLVD - CULVERT 7

(0+00-3+50)



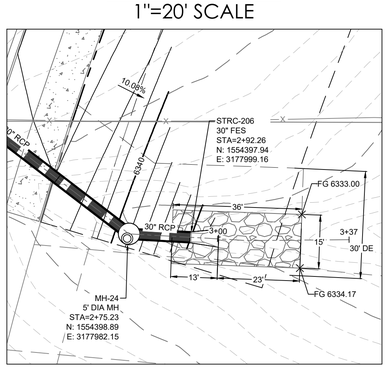
STORM - DAWSON TRAILS BLVD - CULVERT_8

(10+00-15+00)



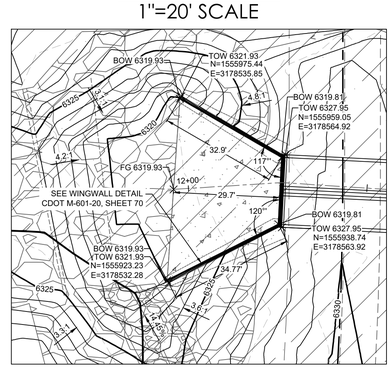
CULVERT 7 OUTLET

1"=20' SCALE



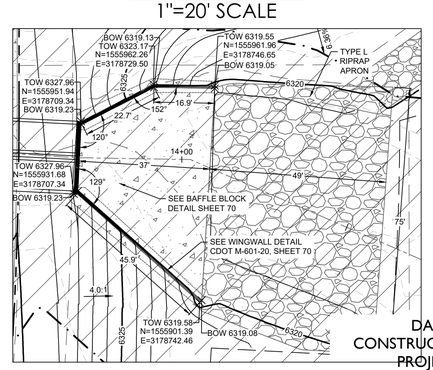
CULVERT 8 INTLET

1"=20' SCALE



CULVERT 8 OUTLET

1"=20' SCALE



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- PROPOSED SANITARY & STUB OUT
- EXISTING SANITARY & STUB OUT
- SANITARY SERVICE
- WATER SERVICE
- PROPOSED WATER & STUB OUT
- EXISTING WATER & STUB OUT
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT
- FUTURE STORM & STUB OUT
- STORM MAJOR HGL
- STORM MINOR HGL
- STORM UNDERDRAIN

EXISTING / PROPOSED

- STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES MAINTENANCE ACCESS
- RIPRAP
- BLOCK NUMBER
- 100 YEAR FLOODPLAIN
- WETLAND
- SHADED ZONE X FLOOD AREA

NOTES:

1. ALL CONCRETE TOE WALLS WILL BE 8" THICK.
2. SEE RIPRAP APRON DETAILS, AND LOW TAILWATER BASIN DETAILS SHEET 69.

PROFESSIONAL ENGINEER CERTIFICATION

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STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

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DEVELOPMENT SERVICES DATE

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM P&P (1 OF 8)

WESTSIDE

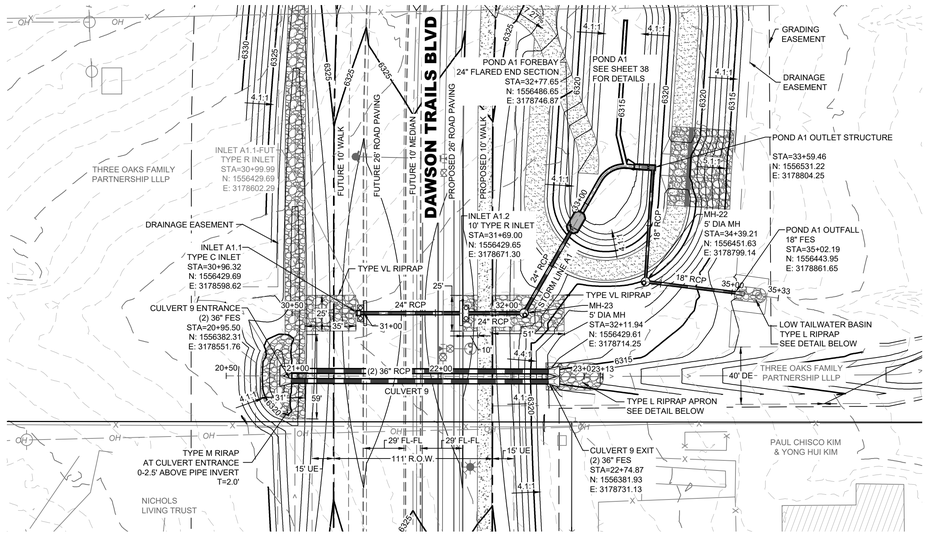
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

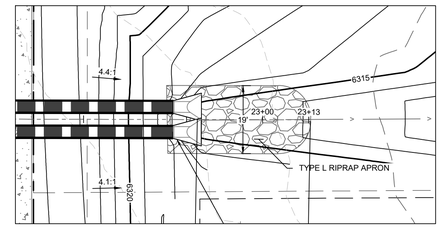
SHEET
30 OF 70

2025-10-01 (6:35 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM P&P.dwg

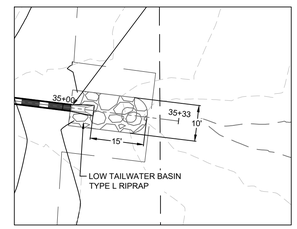
CULVERT 9



CULVERT 9 OUTLET
1"=20' SCALE



CULVERT A1 OUTLET
1"=20' SCALE



KEY MAP
SCALE: 1"= 3000'

0 50' 100'
1 inch = 50 ft.

PROFILE
HORIZ: 1" = 50'
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LEGEND

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NOTES:

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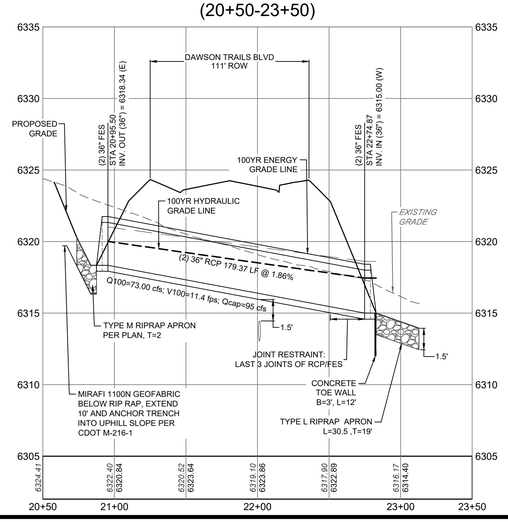
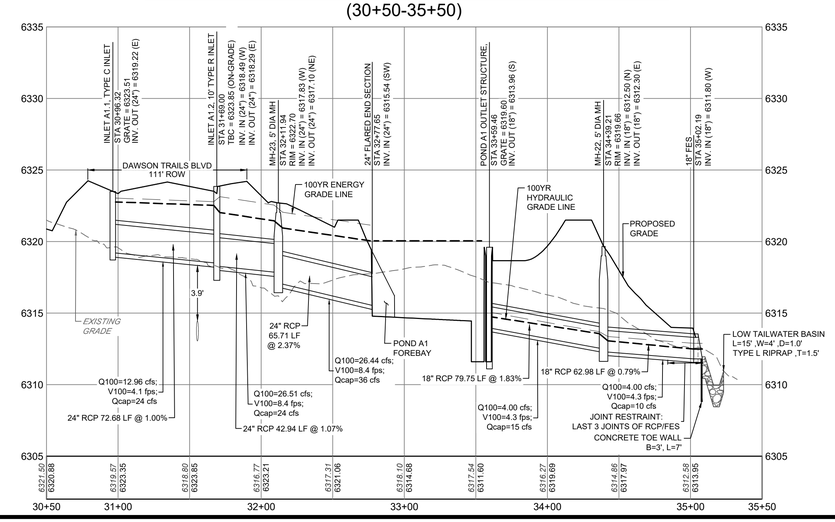
STORM - DAWSON TRAILS BLVD - CULVERT_9
(20+50-23+50)



STORM - DAWSON TRAILS BLVD - A1
(30+50-35+50)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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DEVELOPMENT SERVICES DATE

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ENGLEWOOD, CO 80113
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LAND DEVELOPMENT
ENERGY
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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM P&P (2 OF 8)

WESTSIDE

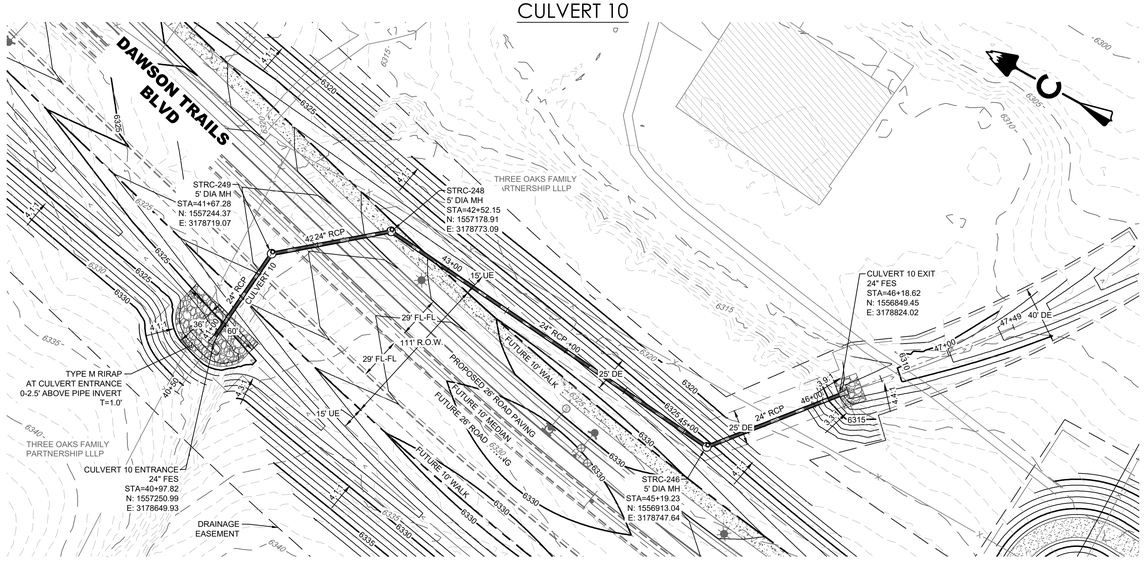
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

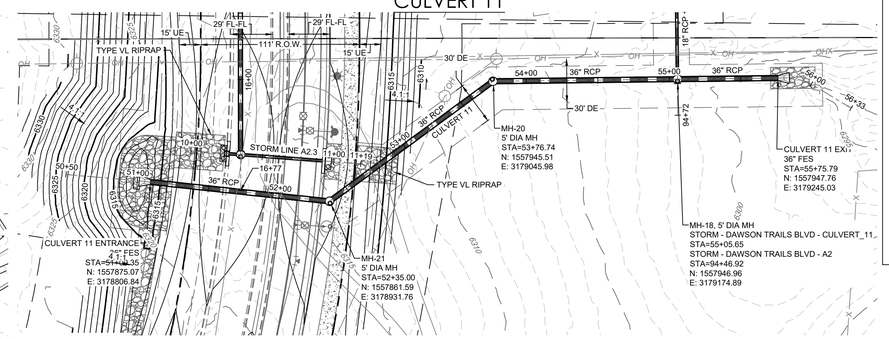
SHEET
31 OF 70

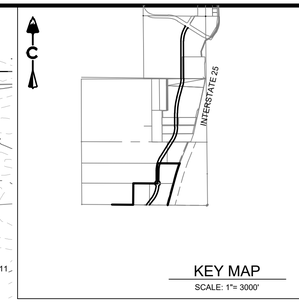
2025-10-01 (6:36 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM P&P.dwg

CULVERT 10



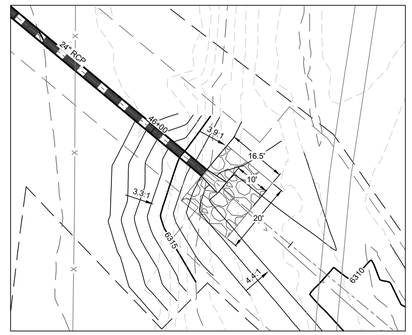
CULVERT 11



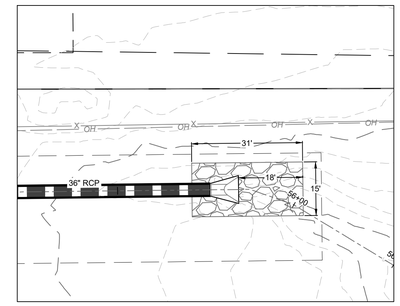


KEY MAP
SCALE: 1"= 3000'

CULVERT 10 OUTLET
1"=20' SCALE



CULVERT 11 OUTFALL
1"=20' SCALE



C

0 50' 100'

1 inch = 50 ft.

PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- PROPOSED SANITARY & STUB OUT
- SS — EXISTING SANITARY & STUB OUT
- S — SANITARY SERVICE
- W — WATER SERVICE
- PROPOSED WATER & STUB OUT
- W — EXISTING WATER & STUB OUT
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT
- FUTURE STORM & STUB OUT
- STORM MAJOR HGL
- STORM MINOR HGL
- STORM UNDERDRAIN

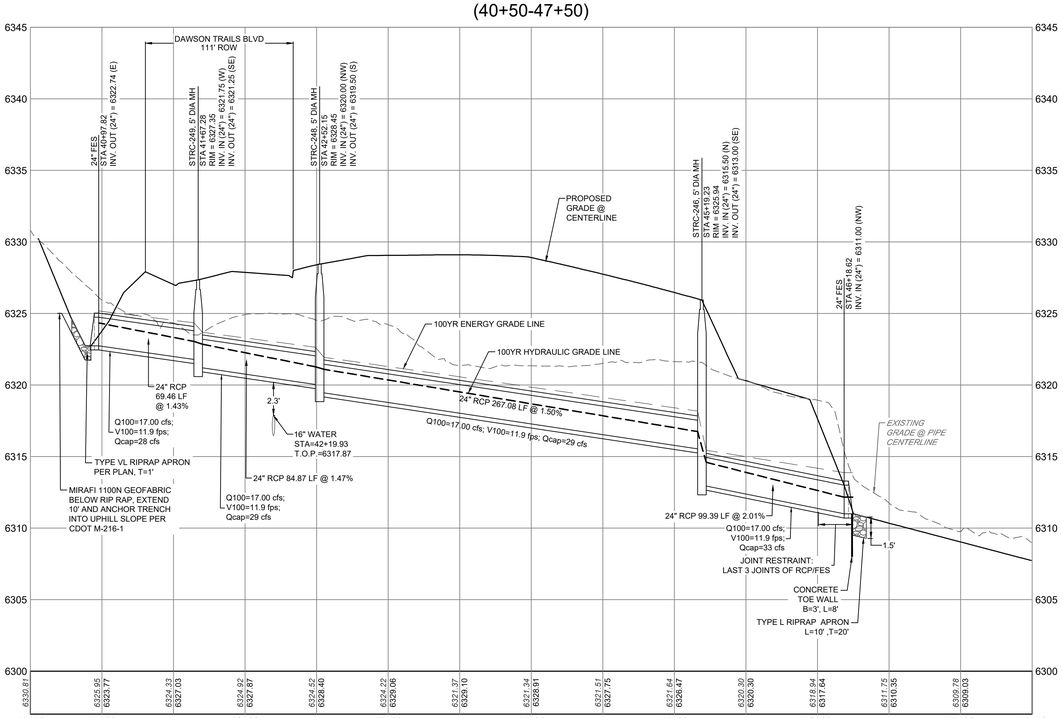
EXISTING PROPOSED

- STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES MAINTENANCE ACCESS
- RIPRAP
- 1 2 3 4 — BLOCK NUMBER
- 100 YEAR FLOODPLAIN
- WETLAND
- SHADED ZONE X FLOOD AREA

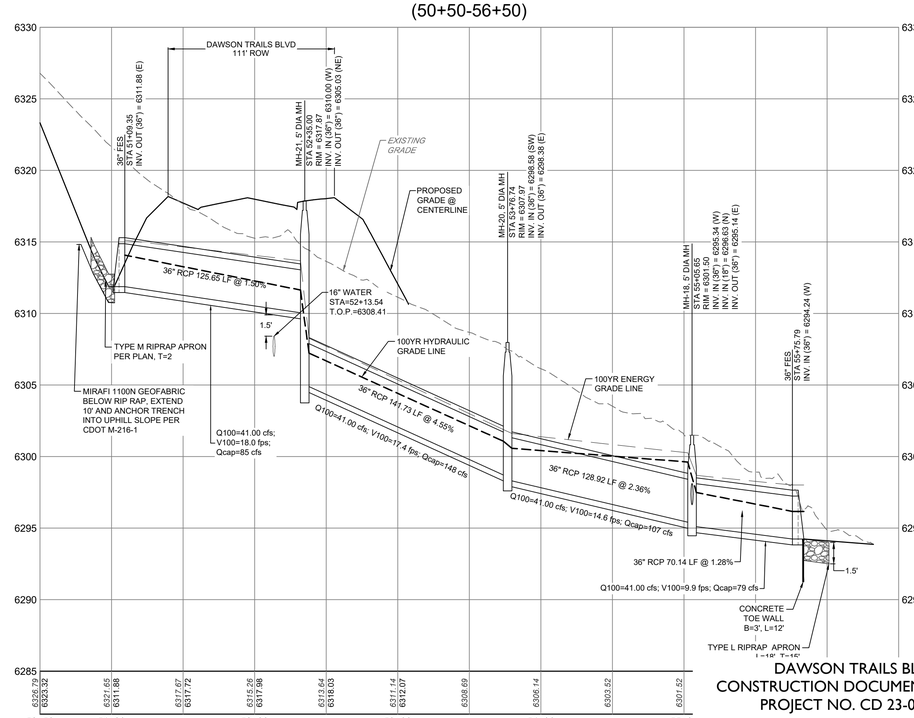
NOTES:

1. ALL CONCRETE TOE WALLS WILL BE 8" THICK.
2. SEE RIPRAP APRON DETAILS, AND LOW TAILWATER BASIN DETAILS SHEET 69.

STORM - DAWSON TRAILS BLVD - CULVERT_10
(40+50-47+50)



STORM - DAWSON TRAILS BLVD - CULVERT_11
(50+50-56+50)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM P&P (3 OF 8)

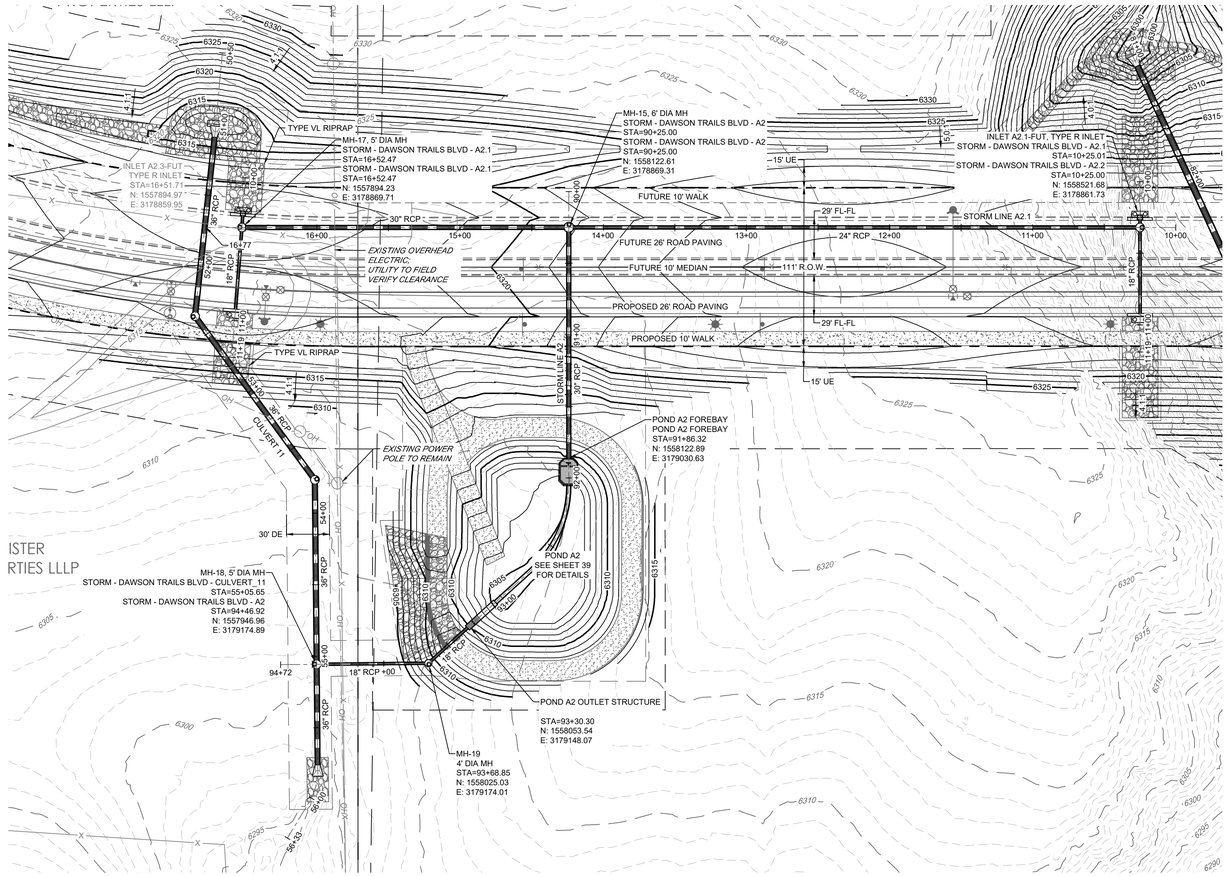
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 32 OF 70

X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM P&P.dwg
2025-10-01 (6:37 PM)



KEY MAP
SCALE: 1"= 3000'

0 50' 100'
1 inch = 50 ft.

PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- PROPOSED SANITARY & STUB OUT
- SS — EXISTING SANITARY & STUB OUT
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- PROPOSED STORM & STUB OUT
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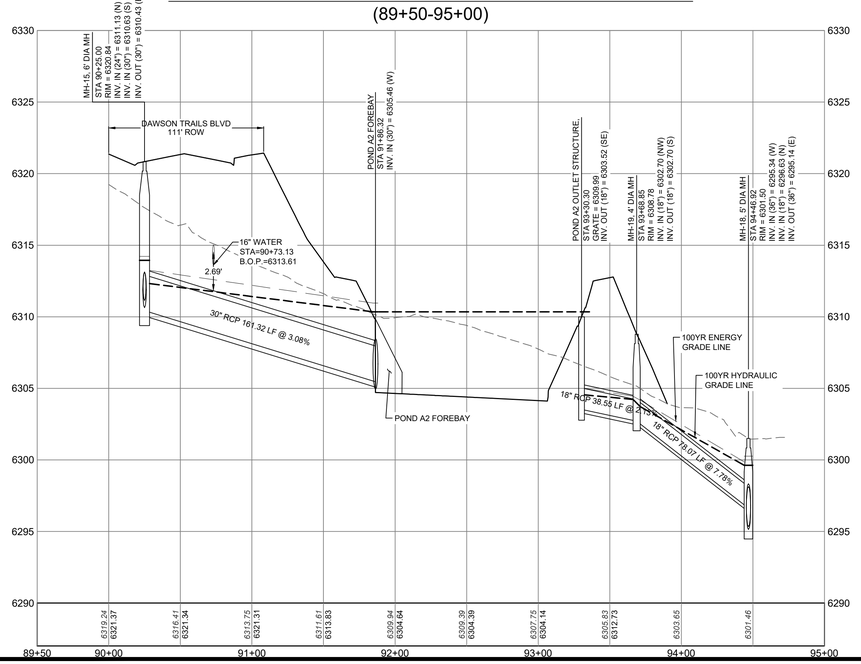
- FUTURE STORM & STUB OUT
- STORM MAJOR HGL
- STORM MINOR HGL
- STORM UNDERDRAIN
- EXISTING / PROPOSED — STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES MAINTENANCE ACCESS
- RIPRAP
- 1 2 3 4 — BLOCK NUMBER
- 100 YEAR FLOODPLAIN
- WETLAND
- SHADED ZONE X FLOOD AREA

NOTES:

1. ALL CONCRETE TOE WALLS WILL BE 8" THICK.
2. SEE RIPRAP APRON DETAILS, AND LOW TAILWATER BASIN DETAILS SHEET 69.

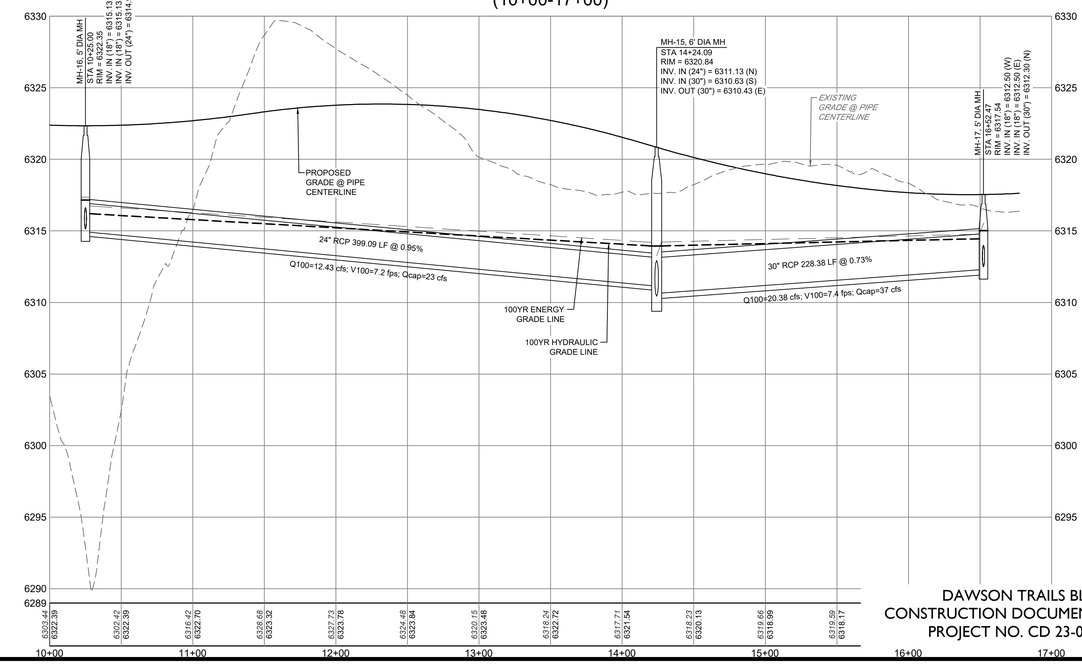
STORM - DAWSON TRAILS BLVD - A2

(89+50-95+00)



STORM - DAWSON TRAILS BLVD - A2.1

(10+00-17+00)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

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TOWN OF CASTLE ROCK APPROVAL

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3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVETOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

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2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
STORM P&P (4 OF 8)

WESTSIDE

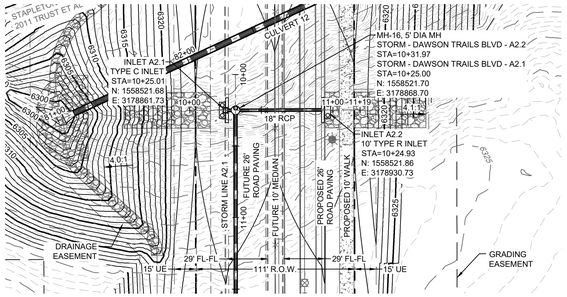
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

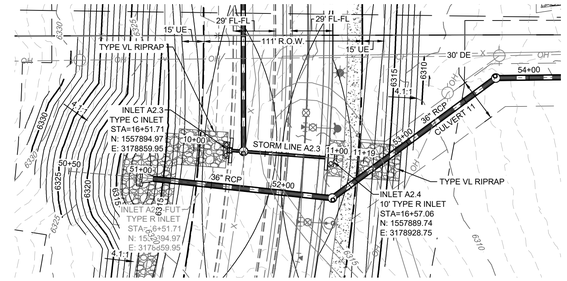
SHEET
33 OF 70

2025-10-01 (6:37 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM P&P.dwg

STORM A2.2



STORM A2.2



KEY MAP

SCALE: 1"= 3000'

0 50' 100'

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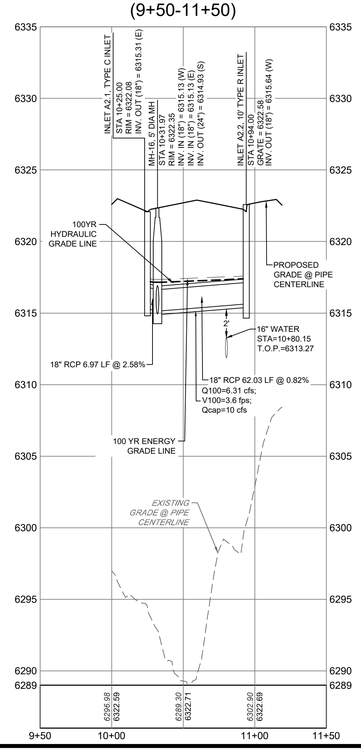
PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

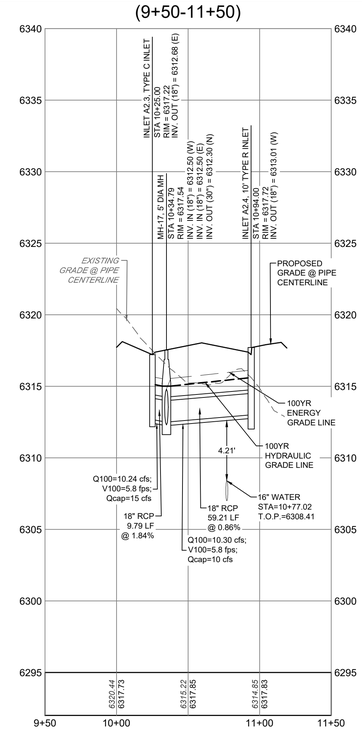
STORM - DAWSON TRAILS BLVD - A2.2

(9+50-11+50)



STORM - DAWSON TRAILS BLVD - A2.3

(9+50-11+50)



LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- PROPOSED SANITARY & STUB OUT
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- STORM MINOR HGL
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- OUTLET STRUCTURE
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- BLOCK NUMBER
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NOTES:

1. ALL CONCRETE TOE WALLS WILL BE 8" THICK.
2. SEE RIPRAP APRON DETAILS, AND LOW TAILWATER BASIN DETAILS SHEET 69.

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

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DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM P&P (5 OF 8)

WESTSIDE

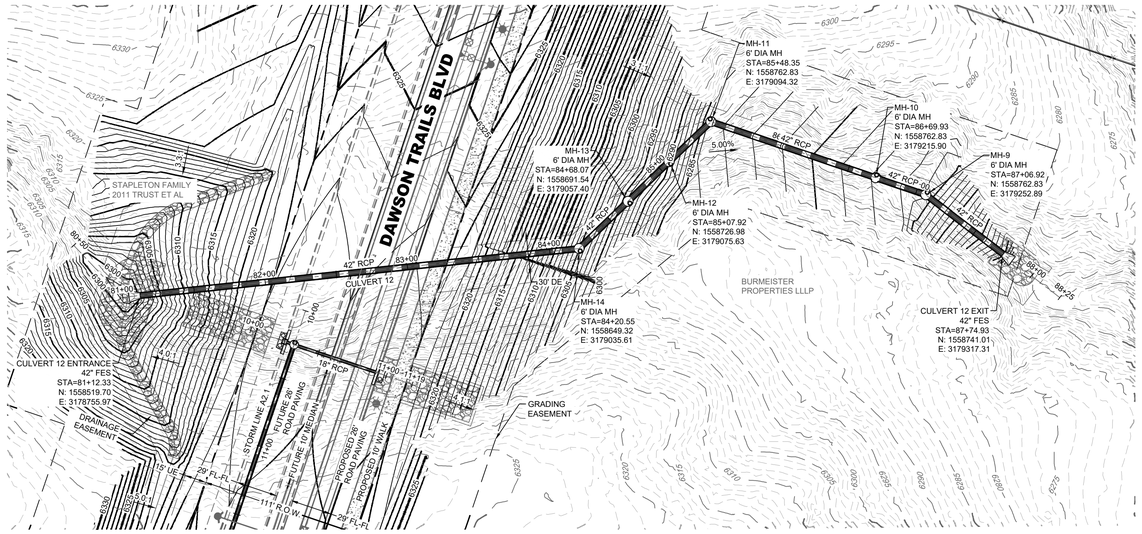
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

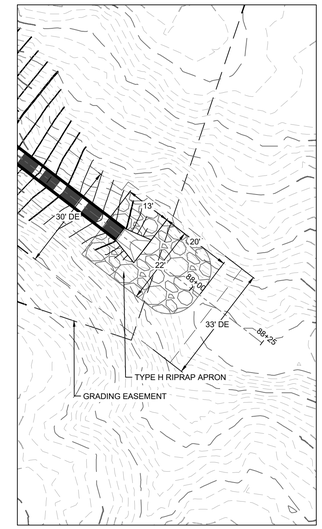
SHEET 34 OF 70

2025-10-01 (6:37 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM P&P.dwg

STORM A 12



CULVERT 10 OUTLET
1"=20' SCALE



KEY MAP
SCALE: 1"= 3000'

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PROFILE
HORIZ: 1" = 50'
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- EXISTING STORM & STUB OUT
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- STORM MAJOR HGL
- STORM MINOR HGL
- STORM UNDERDRAIN

EXISTING PROPOSED

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- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES MAINTENANCE ACCESS
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- WETLAND
- SHADED ZONE X FLOOD AREA

NOTES:

1. ALL CONCRETE TOE WALLS WILL BE 8" THICK.
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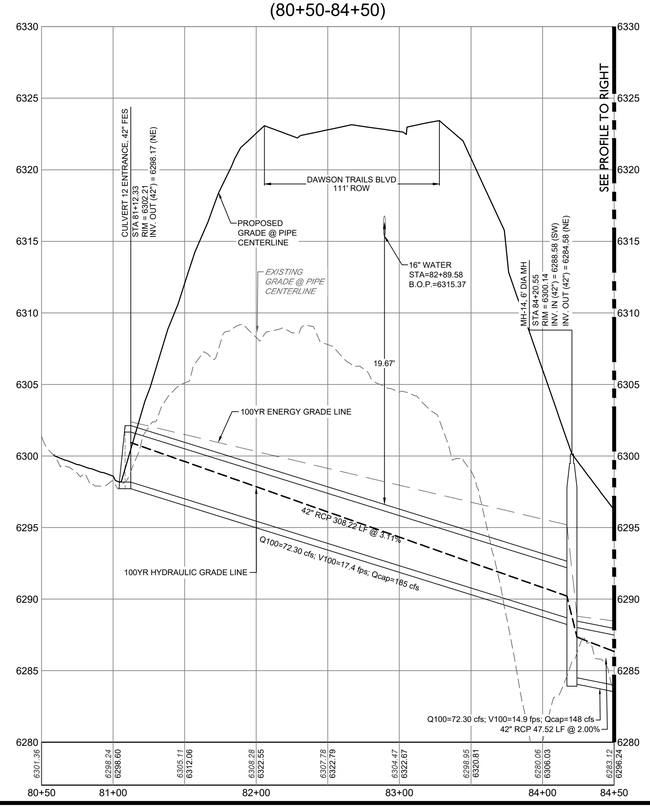
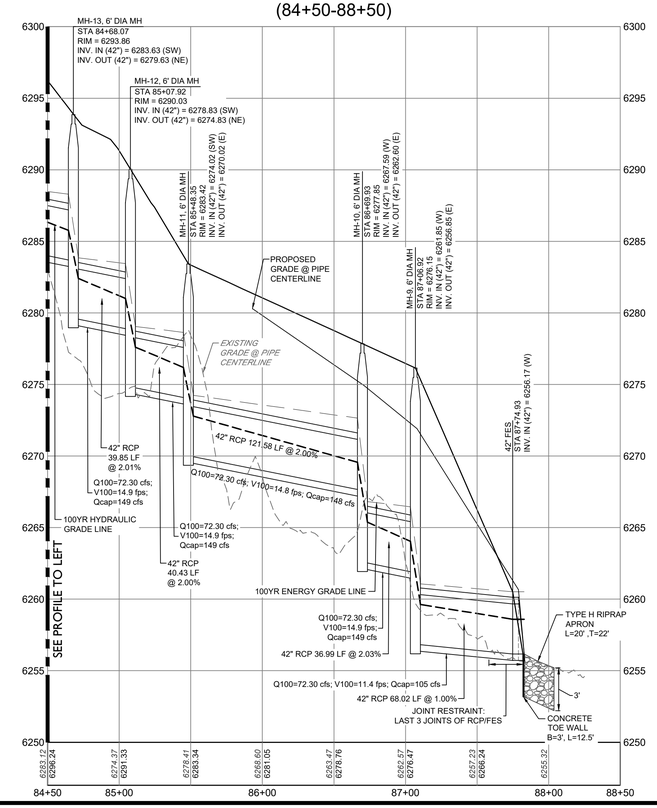
TORM - DAWSON TRAILS BLVD - CULVERT_12
(80+50-84+50)



STORM - DAWSON TRAILS BLVD - CULVERT_12
(84+50-88+50)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

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DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM P&P (6 OF 8)

WESTSIDE

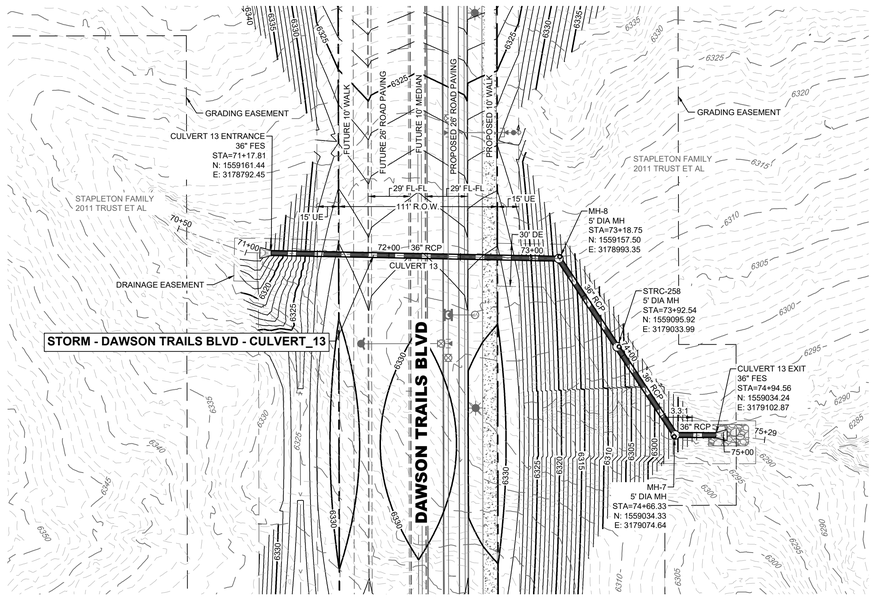
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

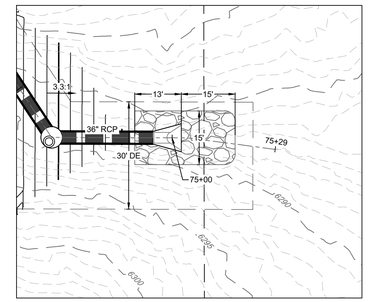
SHEET 35 OF 70

2025-10-01 (6:38 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM P&P.dwg

CULVERT 13



CULVERT 13 OUTFALL
1"=20' SCALE



KEY MAP
SCALE: 1"= 3000'

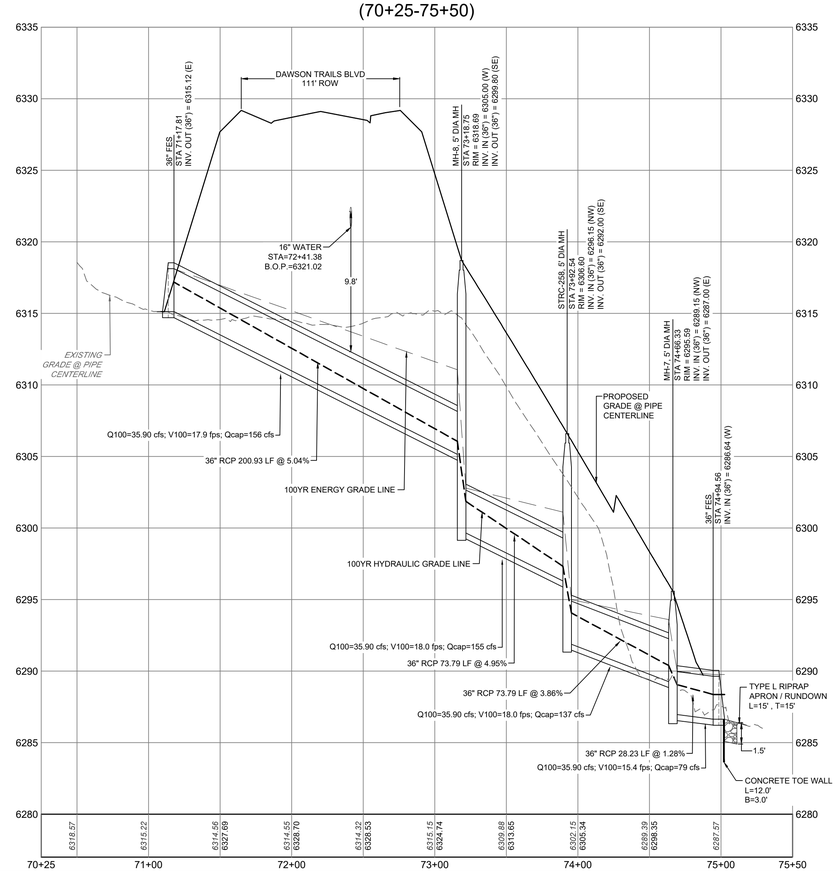
C

0 50' 100'

1 inch = 50 ft.

PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

STORM - DAWSON TRAILS BLVD - CULVERT_13
(70+25-75+50)



LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
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- STORM UNDERDRAIN

EXISTING PROPOSED

- STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES MAINTENANCE ACCESS
- RIPRAP
- 1 2 3 4 — BLOCK NUMBER
- 100 YEAR FLOODPLAIN
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NOTES:

1. ALL CONCRETE TOE WALLS WILL BE 8" THICK.
2. SEE RIPRAP APRON DETAILS, AND LOW TAILWATER BASIN DETAILS SHEET 69.

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

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CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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ENERGY
PUBLIC INFRASTRUCTURE

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM P&P (7 OF 8)

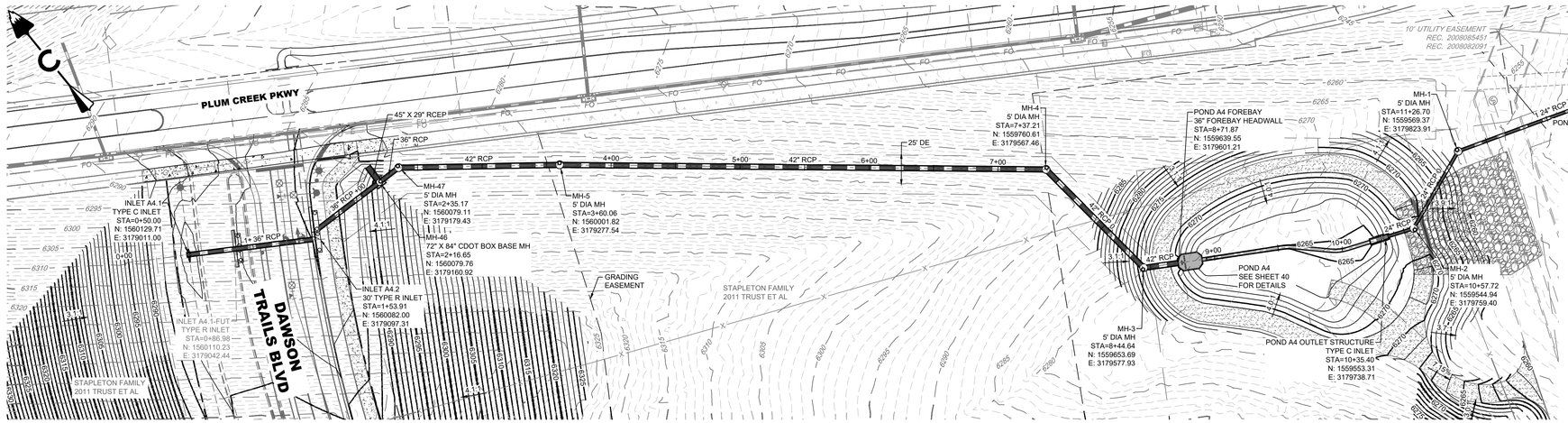
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

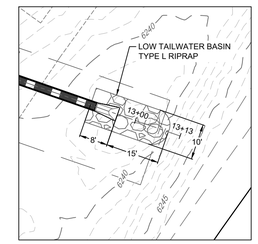
JOB NO.
20-224

SHEET
36 OF 70

STORM A4



CULVERT 11 OUTFALL
1"=20' SCALE



KEY MAP
SCALE: 1"= 3000'

0 50' 100'
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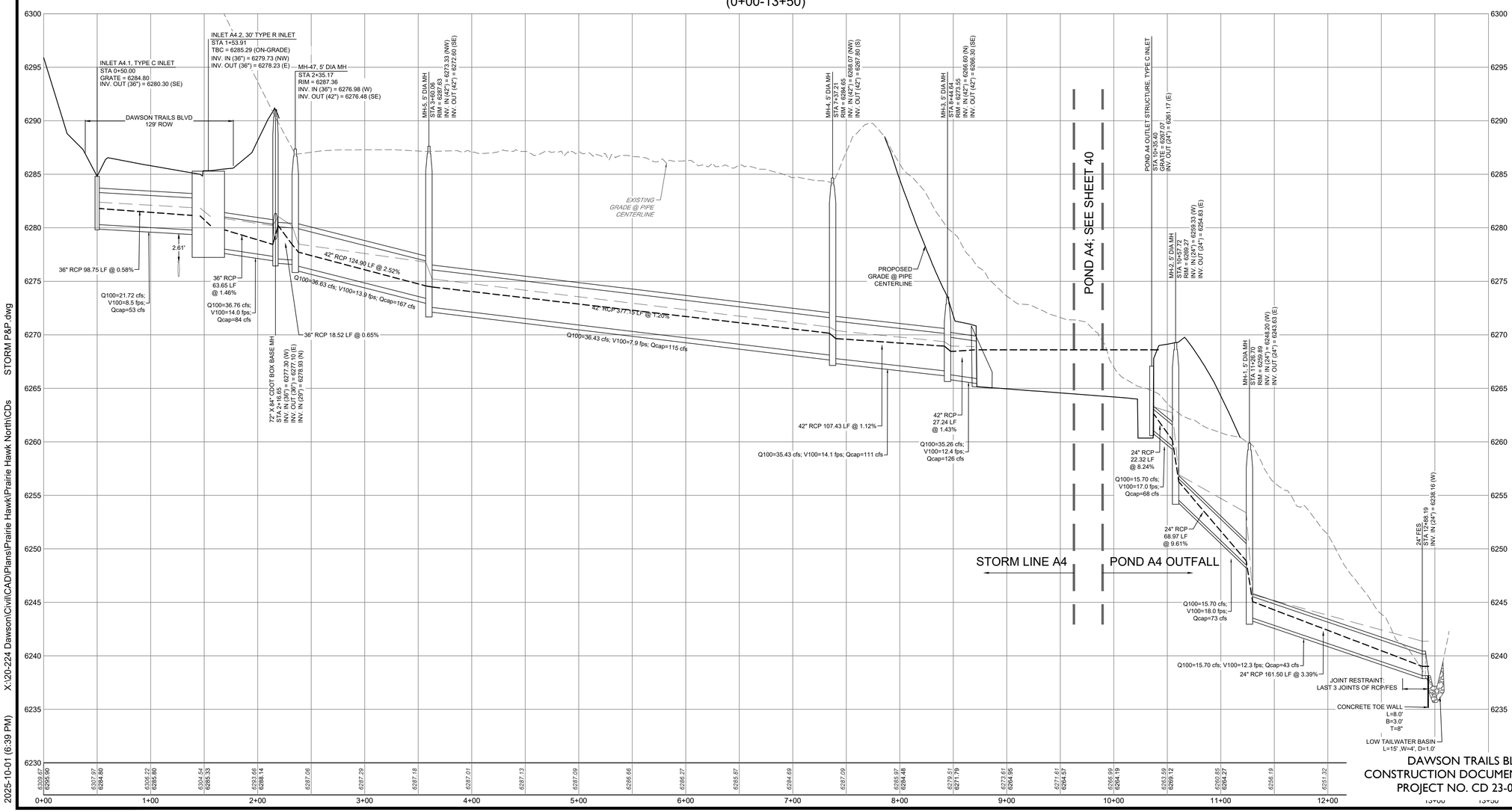
PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

STORM - DAWSON TRAILS BLVD - A4

(0+00-13+50)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
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DAWSON TRAILS BLVD
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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

CORE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM P&P (8 OF 8)

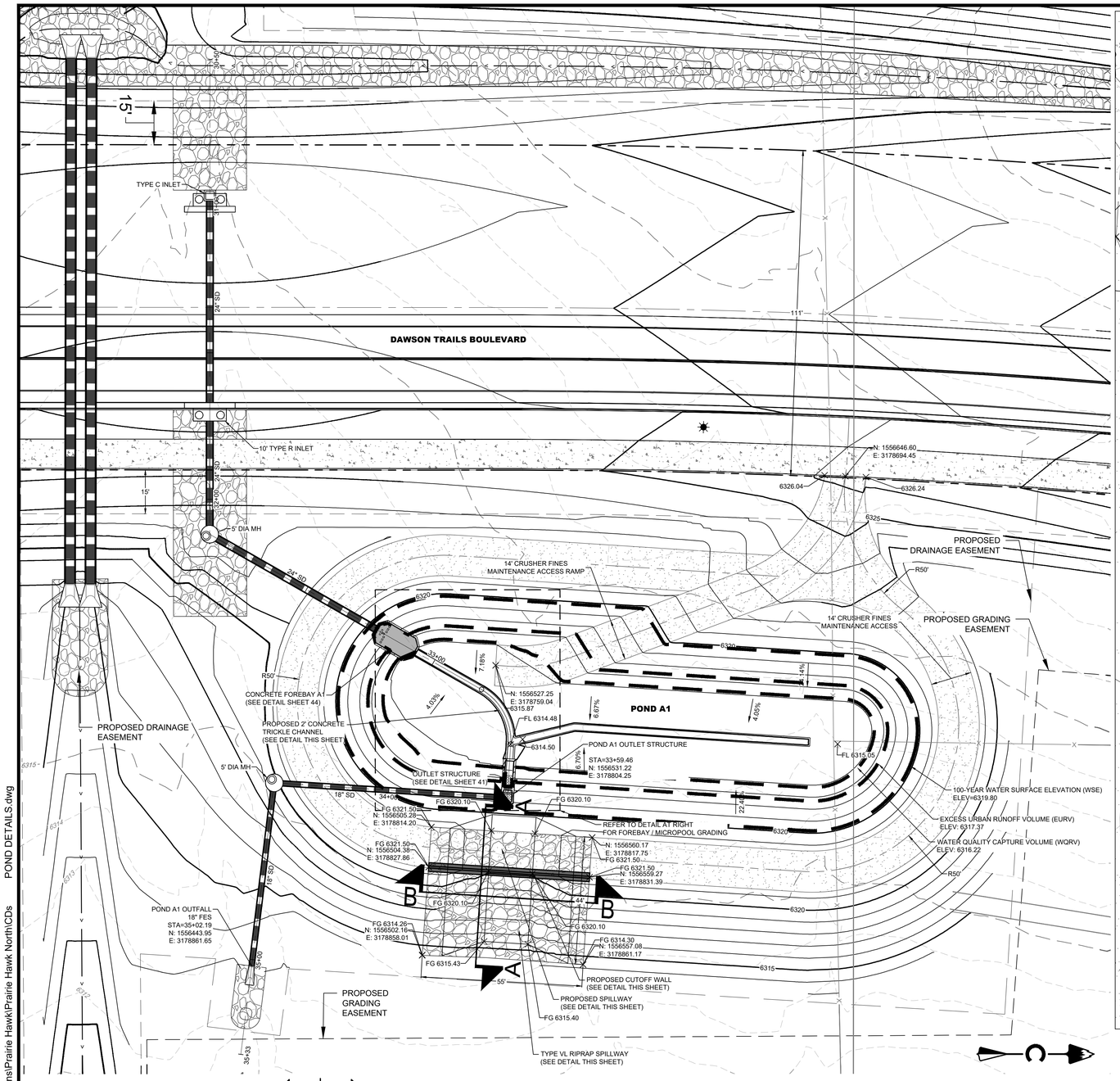
WESTSIDE

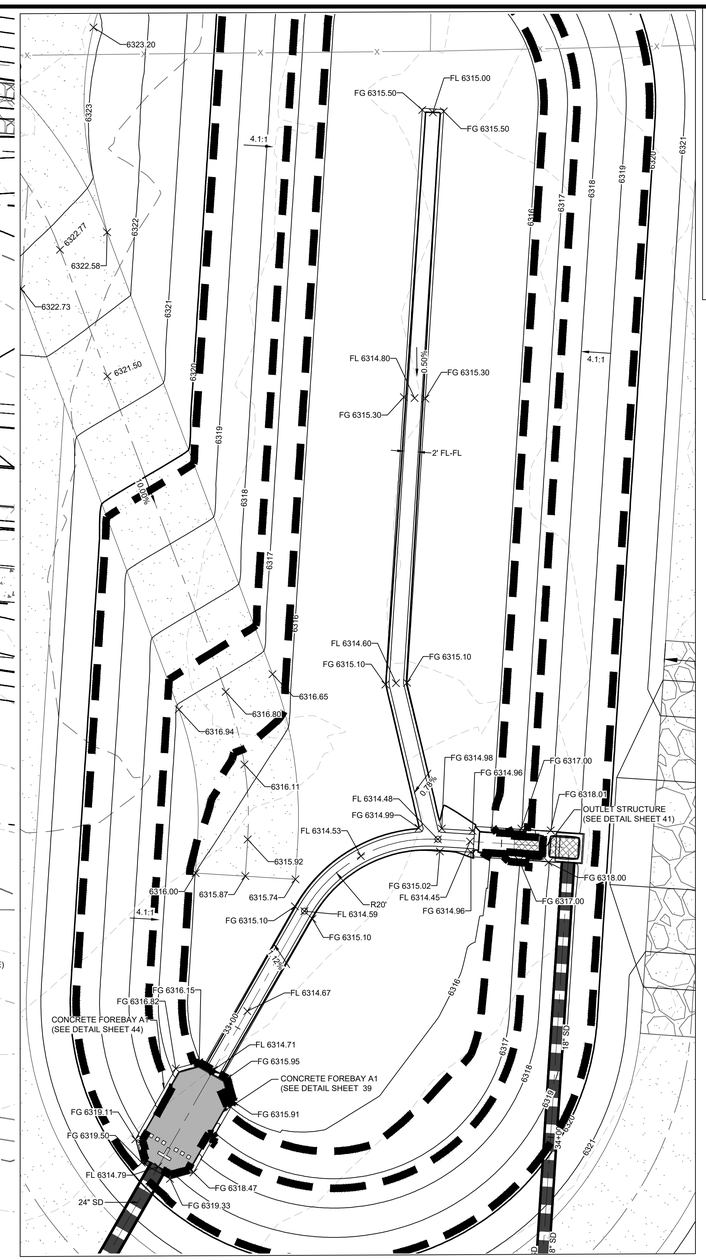
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

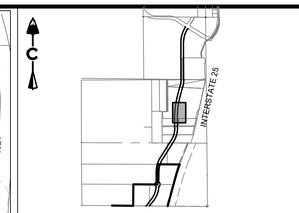
SHEET
37 OF 70

2025-10-01 (6:39 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM P&P.dwg





FOREBAY /TRICKLE CHANNEL / MICROPOOL GRADING DETAIL
SCALE: 1" = 10'



KEY MAP
SCALE: 1"= 3000'

0 20' 40'
1 inch = 20 ft.

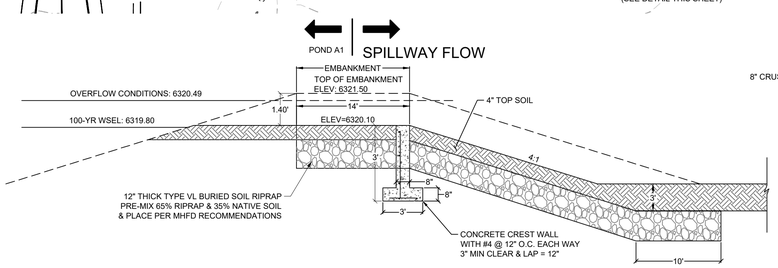
PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

LEGEND

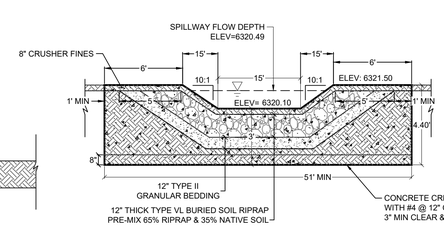
- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- 5280 PROPOSED MAJOR CONTOUR
- 5279 PROPOSED MINOR CONTOUR
- 5280 EXISTING MAJOR CONTOUR
- 5279 EXISTING MINOR CONTOUR
- DIRECTIONAL FLOW ARROW
- 5150 SPOT ELEVATION
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT
- FUTURE STORM & STUB OUT
- STORM MAJOR HGL
- STORM MINOR HGL
- STORM UNDERDRAIN

EXISTING PROPOSED

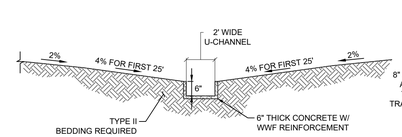
- STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES MAINTENANCE ACCESS
- RIPRAP
- 1 2 3 4 BLOCK NUMBER
- 100 YEAR FLOODPLAIN
- WETLAND
- SHADED ZONE X FLOOD AREA



EMERGENCY SPILLWAY SECTION A-A
NTS

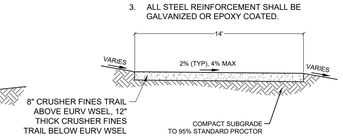


CONCRETE CREST WALL SECTION B-B
NTS



TRICKLE CHANNEL TYPICAL SECTION
NTS

NOTES:
1. ALL EXPOSED CONCRETE EDGES SHALL BE CONSTRUCTED WITH 1/2" RADIUS OF CHAMFER.
2. ALL TRASH RACKS SHALL BE HOT DIPPED GALVANIZED (TYPICAL).
3. ALL STEEL REINFORCEMENT SHALL BE GALVANIZED OR EPOXY COATED.



MAINTENANCE ACCESS TYPICAL SECTION
NTS

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

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DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
POND DETAILS - POND A1

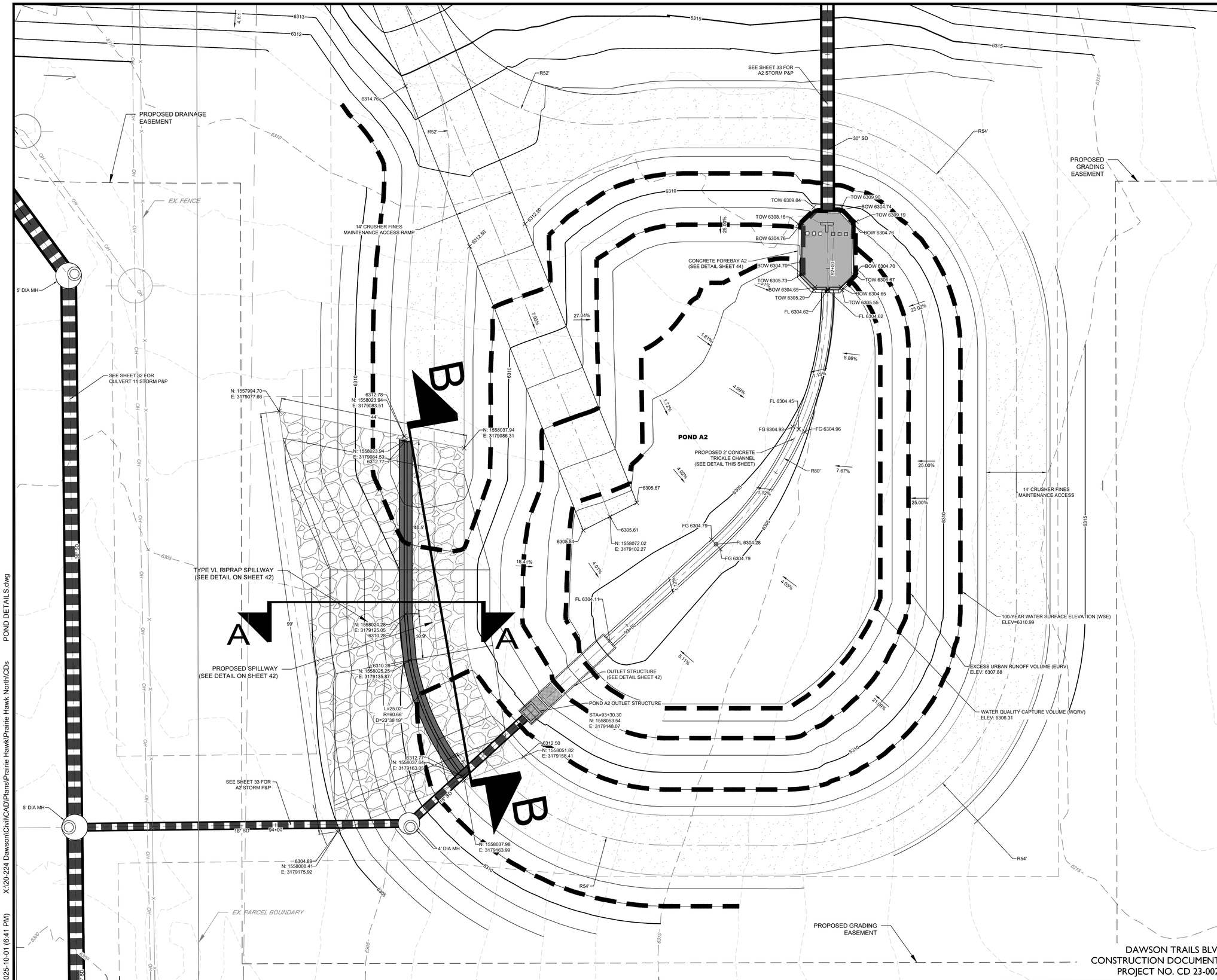
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 38 OF 70

2025-10-01 (6:40 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs POND DETAILS.dwg



PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

KEY MAP

SCALE: 1"= 3000'

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- 5280 PROPOSED MAJOR CONTOUR
- 5279 PROPOSED MINOR CONTOUR
- 5280 EXISTING MAJOR CONTOUR
- 5279 EXISTING MINOR CONTOUR
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- 5150 SPOT ELEVATION
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT
- FUTURE STORM & STUB OUT
- STORM MAJOR HGL
- STORM MINOR HGL
- STORM UNDERDRAIN

EXISTING PROPOSED

- STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES MAINTENANCE ACCESS
- RIPRAP
- 1 2 3 4 BLOCK NUMBER
- 100 YEAR FLOODPLAIN
- WETLAND
- SHADED ZONE X FLOOD AREA

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STATE OF COLORADO # 48230

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DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
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ENGLEWOOD, CO 80113
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DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
POND DETAILS - POND A2

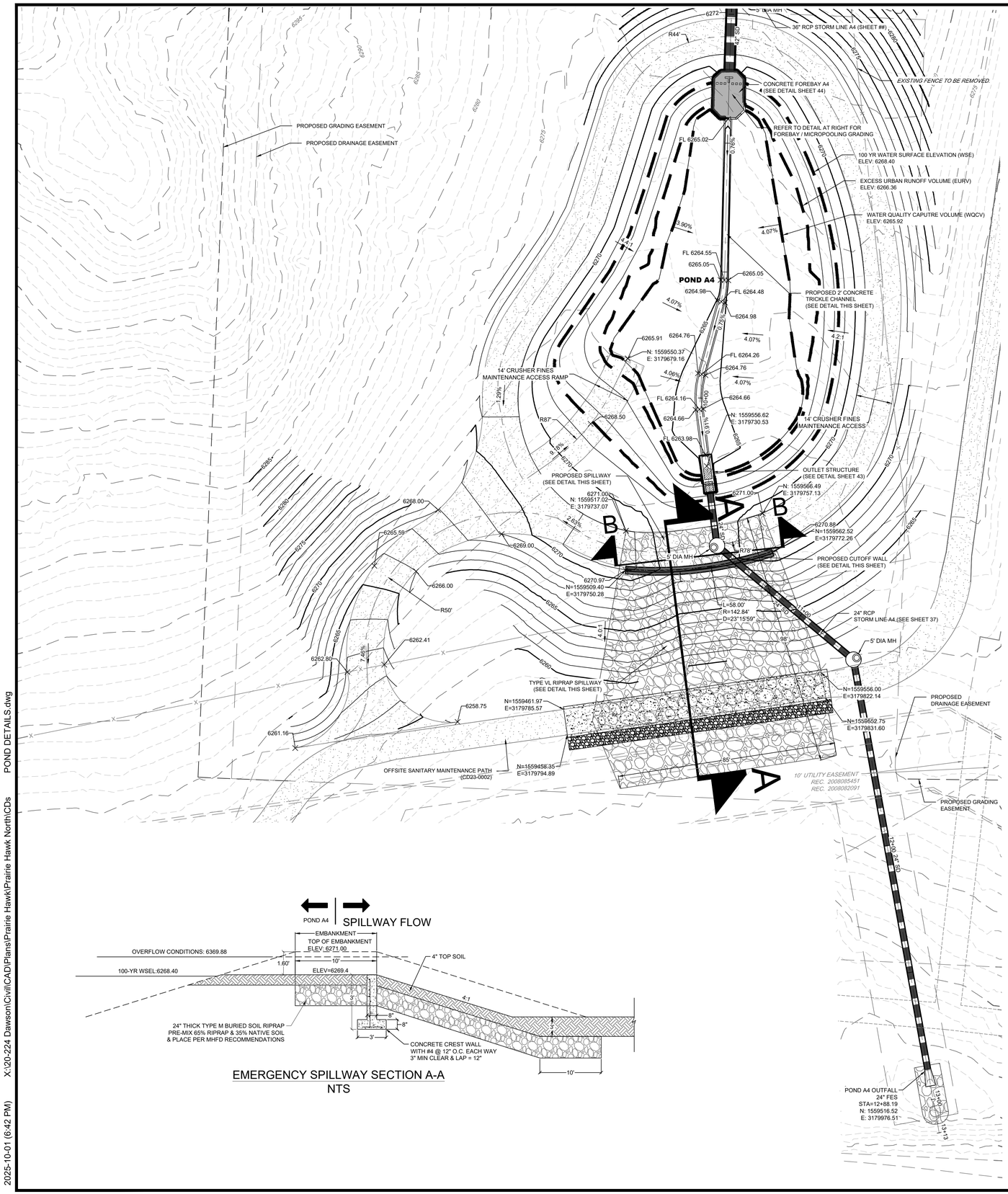
WESTSIDE

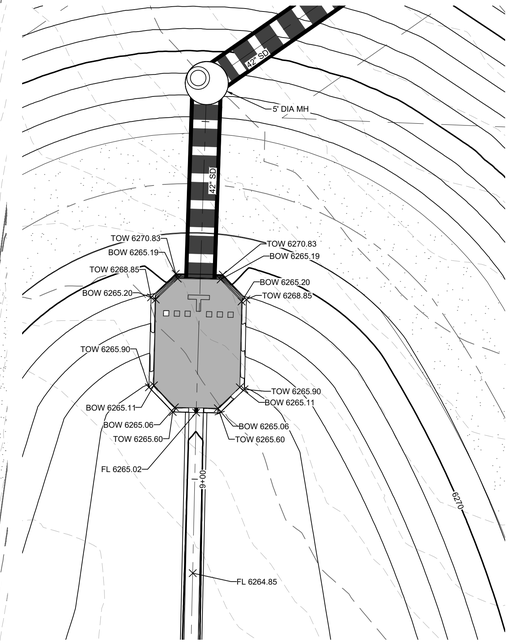
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

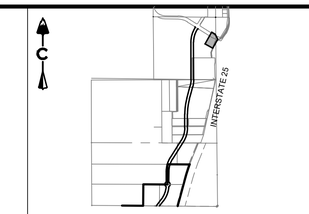
SHEET 39 OF 70

2025-10-01 (6:41 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs POND DETAILS.dwg

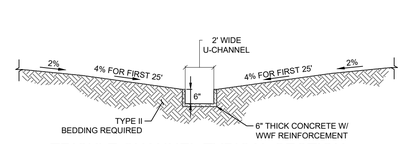




FOREBAY / MICROPOOL GRADING DETAIL
SCALE: 1" = 10'

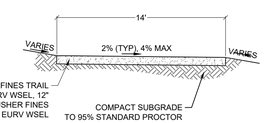


KEY MAP
SCALE: 1"= 3000'



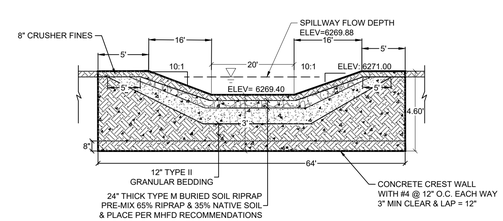
TRICKLE CHANNEL TYPICAL SECTION
NTS

NOTES:
1. ALL EXPOSED CONCRETE EDGES SHALL BE CONSTRUCTED WITH 1/2" RADIUS OF CHAMFER.
2. ALL TRASH RACKS SHALL BE HOT DIPPED GALVANIZED (TYPICAL).
3. ALL STEEL REINFORCEMENT SHALL BE GALVANIZED OR EPOXY COATED.



MAINTENANCE ACCESS TYPICAL SECTION
NTS

EMERGENCY SPILLWAY SECTION A-A
NTS



CONCRETE CREST WALL SECTION B-B
NTS

1 inch = 20 ft.

PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
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- PROPOSED CURB & GUTTER
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PROFESSIONAL ENGINEER CERTIFICATION

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STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

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DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
POND DETAILS - POND A4

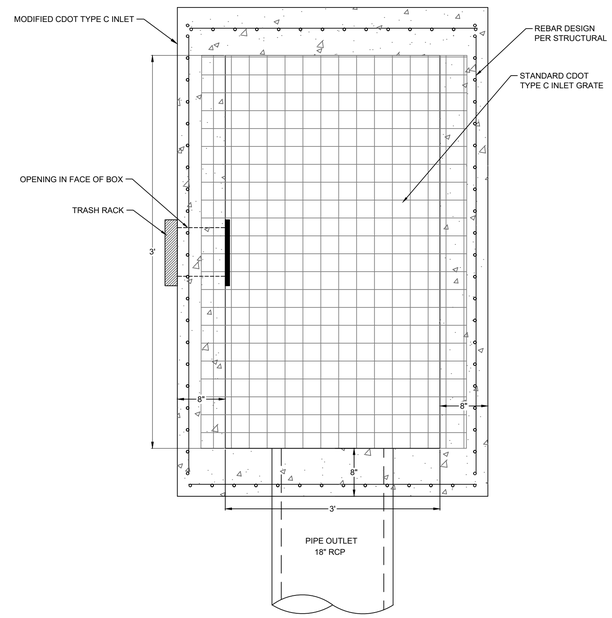
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

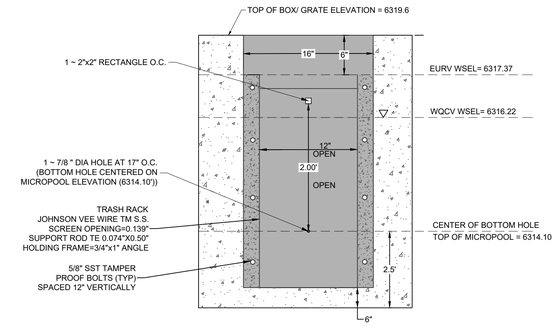
JOB NO. 20-224

SHEET 40 OF 70

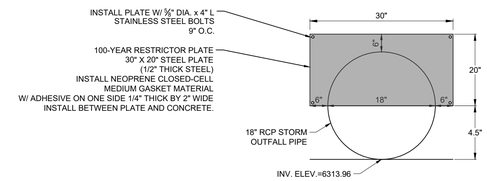
2025-10-01 (6:42 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs POND DETAILS.dwg



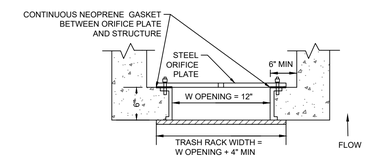
POND A1 OUTLET STRUCTURE PLAN
NTS



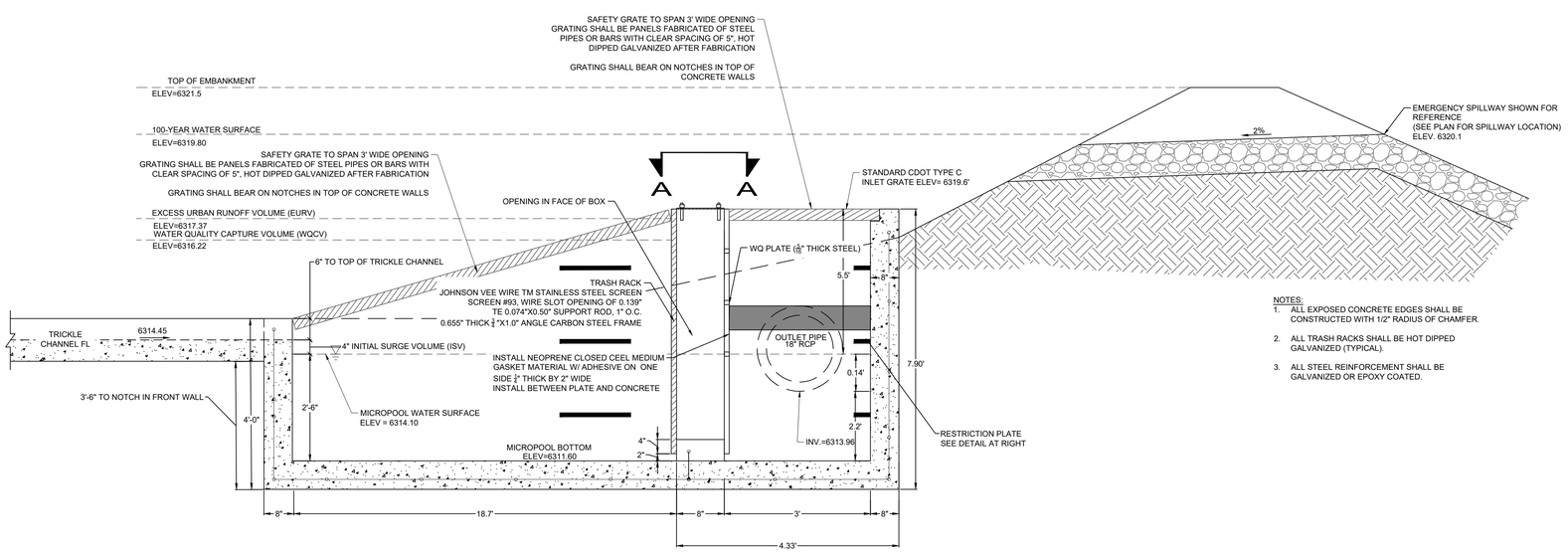
ORIFICE PLATE - ELEVATION
NTS



OUTLET STRUCTURE ORIFICE PLATE
NTS



TRASH RACK/ORIFICE PLATE SECTION A-A
NTS



POND A4 OUTLET STRUCTURE SECTION
NTS

NOTES:
1. ALL EXPOSED CONCRETE EDGES SHALL BE CONSTRUCTED WITH 1/2" RADIUS OF CHAMFER.
2. ALL TRASH RACKS SHALL BE HOT DIPPED GALVANIZED (TYPICAL).
3. ALL STEEL REINFORCEMENT SHALL BE GALVANIZED OR EPOXY COATED.

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

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STATE OF COLORADO # 48230

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DEVELOPMENT SERVICES DATE

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LAND DEVELOPMENT
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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
OUTLET STRUCTURE - POND A1

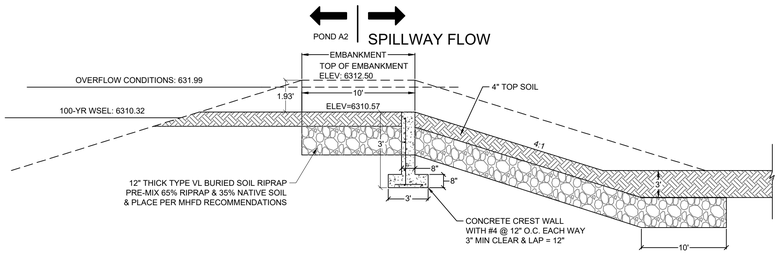
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

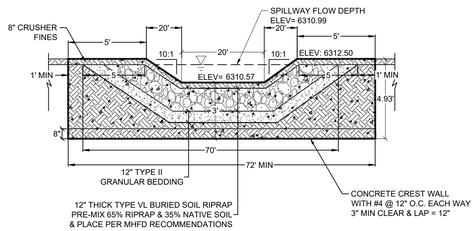
JOB NO.
20-224

SHEET
41 OF 70

2025-10-01 (6:42 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs POND DETAILS.dwg



EMERGENCY SPILLWAY SECTION A-A
NTS



CONCRETE CREST WALL SECTION B-B
NTS

NOTES:
1. ALL EXPOSED CONCRETE EDGES SHALL BE CONSTRUCTED WITH 1/2" RADIUS OF CHAMFER.
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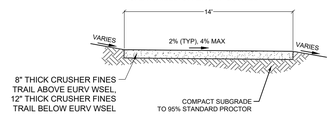
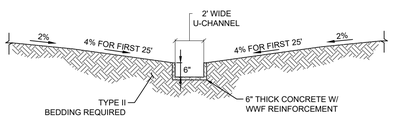
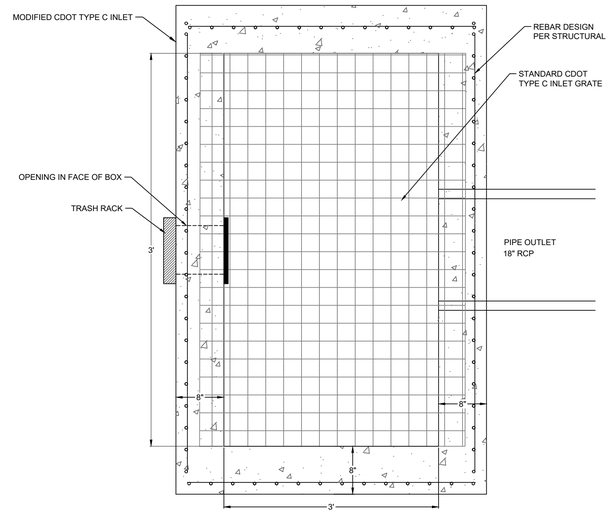


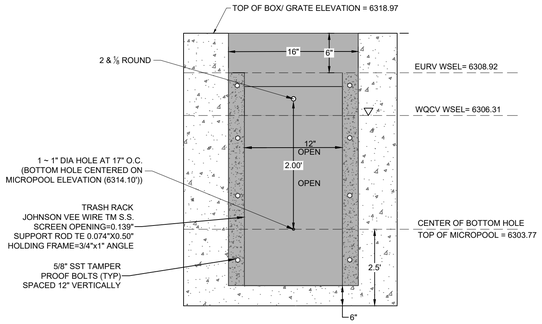
MAINTENANCE ACCESS TYPICAL SECTION
NTS



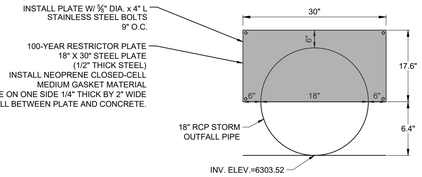
TRICKLE CHANNEL TYPICAL SECTION
NTS



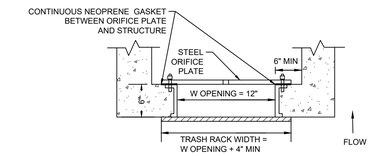
POND A2 OUTLET STRUCTURE PLAN
NTS



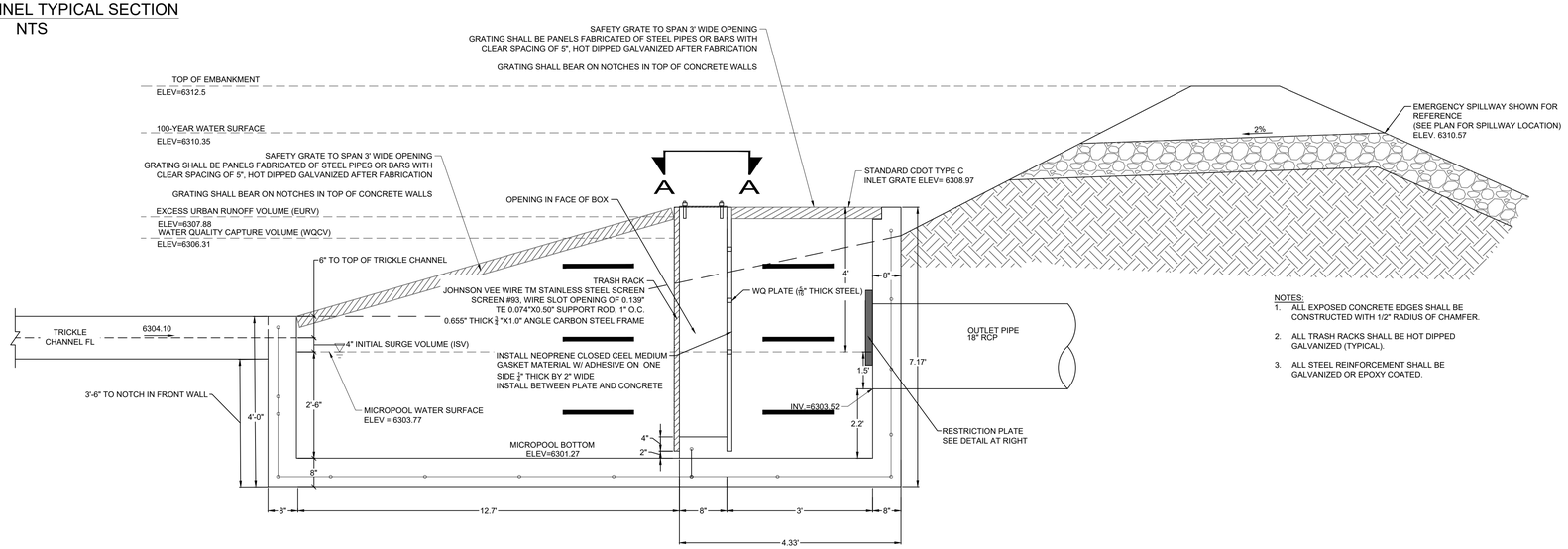
ORIFICE PLATE - ELEVATION
NTS



OUTLET STRUCTURE ORIFICE PLATE
NTS



TRASH RACK/ORIFICE PLATE SECTION A-A
NTS



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DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE
CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM
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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
OUTLET STRUCTURE - POND A2

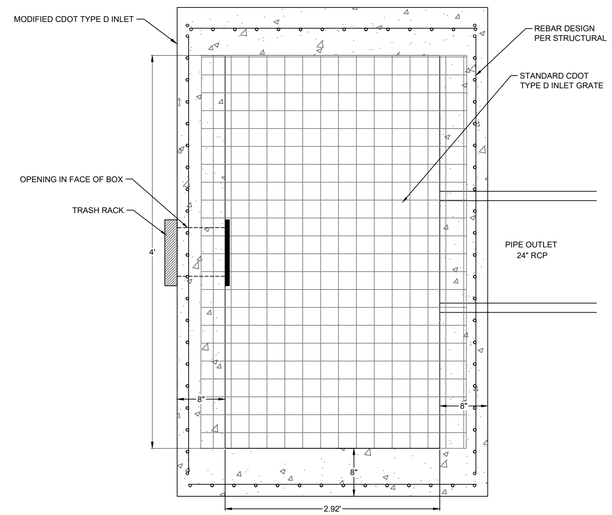
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

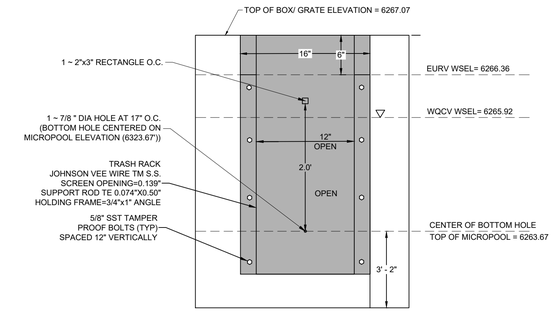
JOB NO.
20-224

SHEET
42 OF 70

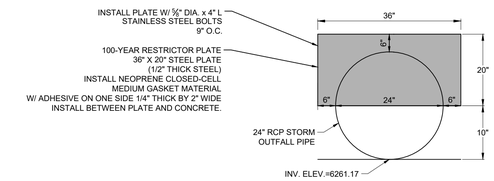
2025-10-01 (6:42 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk North\CDs POND DETAILS.dwg



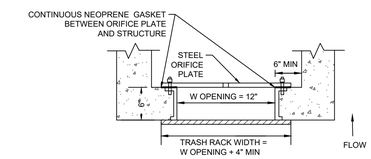
POND A4 OUTLET STRUCTURE PLAN
NTS



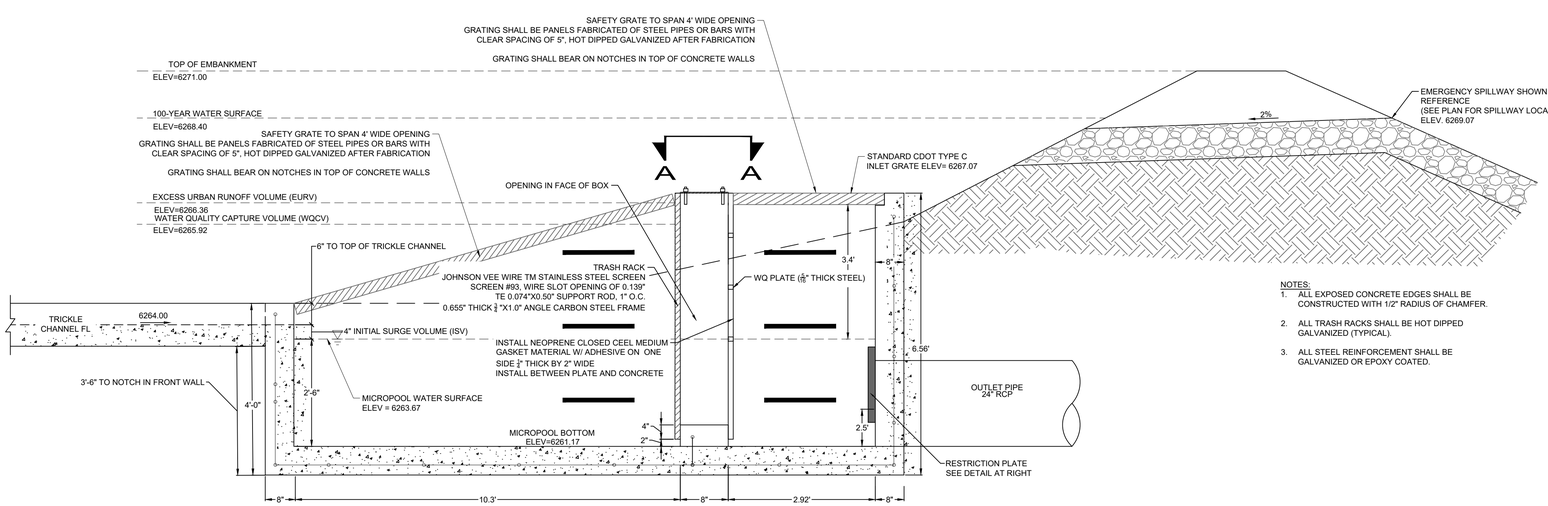
ORIFICE PLATE - ELEVATION
NTS



OUTLET STRUCTURE ORIFICE PLATE
NTS



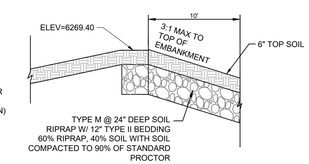
TRASH RACK/ORIFICE PLATE SECTION A-A
NTS



POND A4 OUTLET STRUCTURE SECTION
NTS

NOTES:
1. ALL EXPOSED CONCRETE EDGES SHALL BE CONSTRUCTED WITH 1/2" RADIUS OF CHAMFER.
2. ALL TRASH RACKS SHALL BE HOT DIPPED GALVANIZED (TYPICAL).
3. ALL STEEL REINFORCEMENT SHALL BE GALVANIZED OR EPOXY COATED.

POND A4 | SPILLWAY FLOW



SPILLWAY SECTION
NTS

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
OUTLET STRUCTURE - POND A4

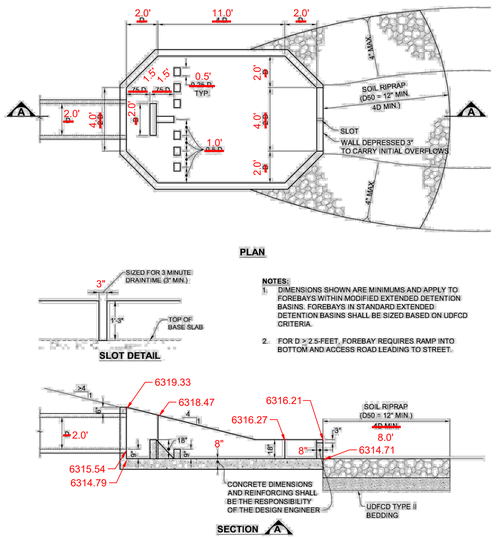
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

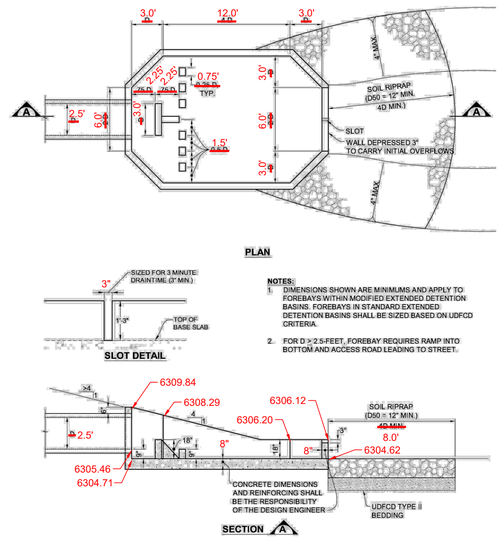
SHEET
43 OF 70

FIGURE 14-8
CONCEPT FOR INTEGRAL FOREBAY AT PIPE OUTFALL



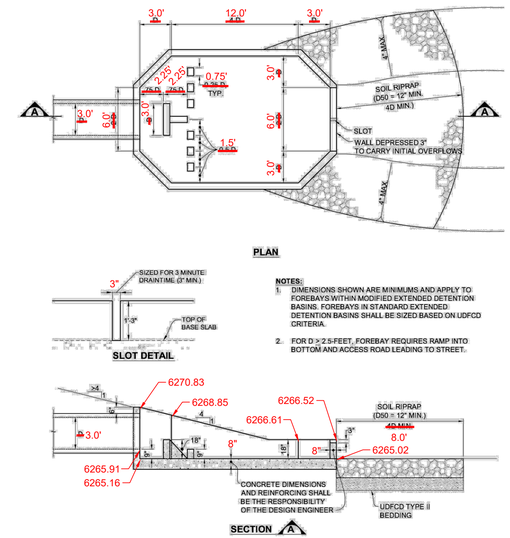
FOREBAY A1

FIGURE 14-8
CONCEPT FOR INTEGRAL FOREBAY AT PIPE OUTFALL



FOREBAY A2

FIGURE 14-8
CONCEPT FOR INTEGRAL FOREBAY AT PIPE OUTFALL



FOREBAY A4

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
FOREBAY DETAILS

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
44 OF 70

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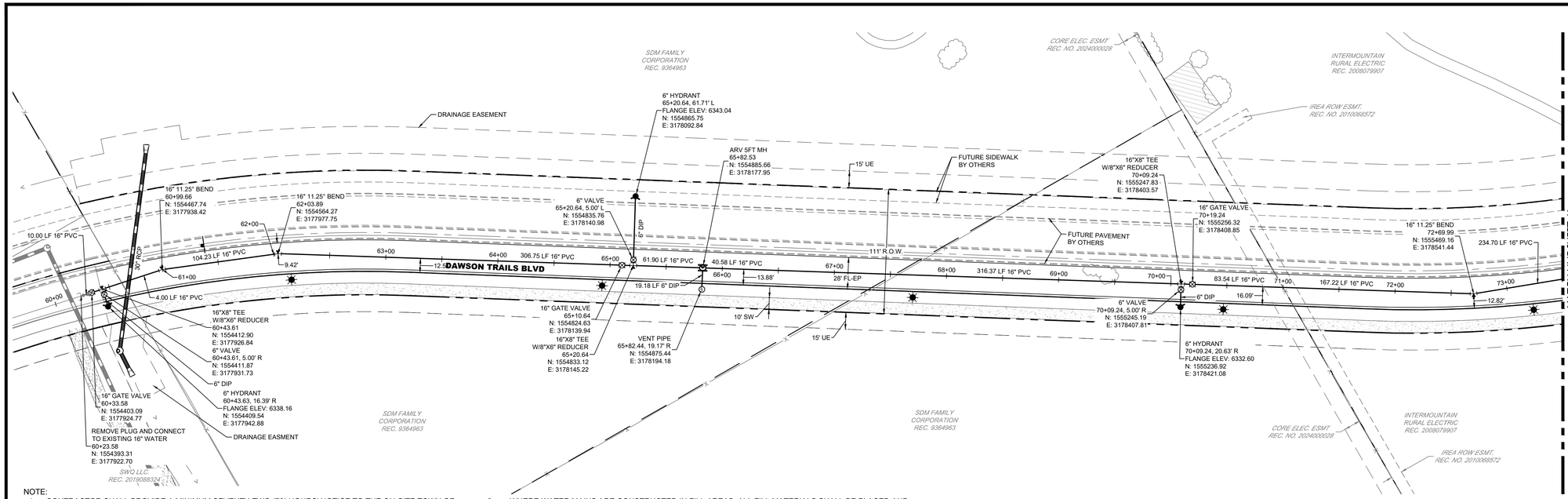

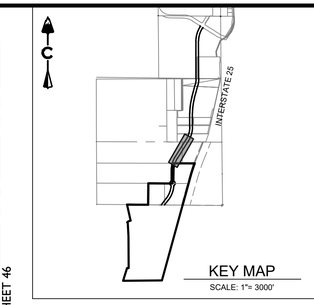

KEY MAP
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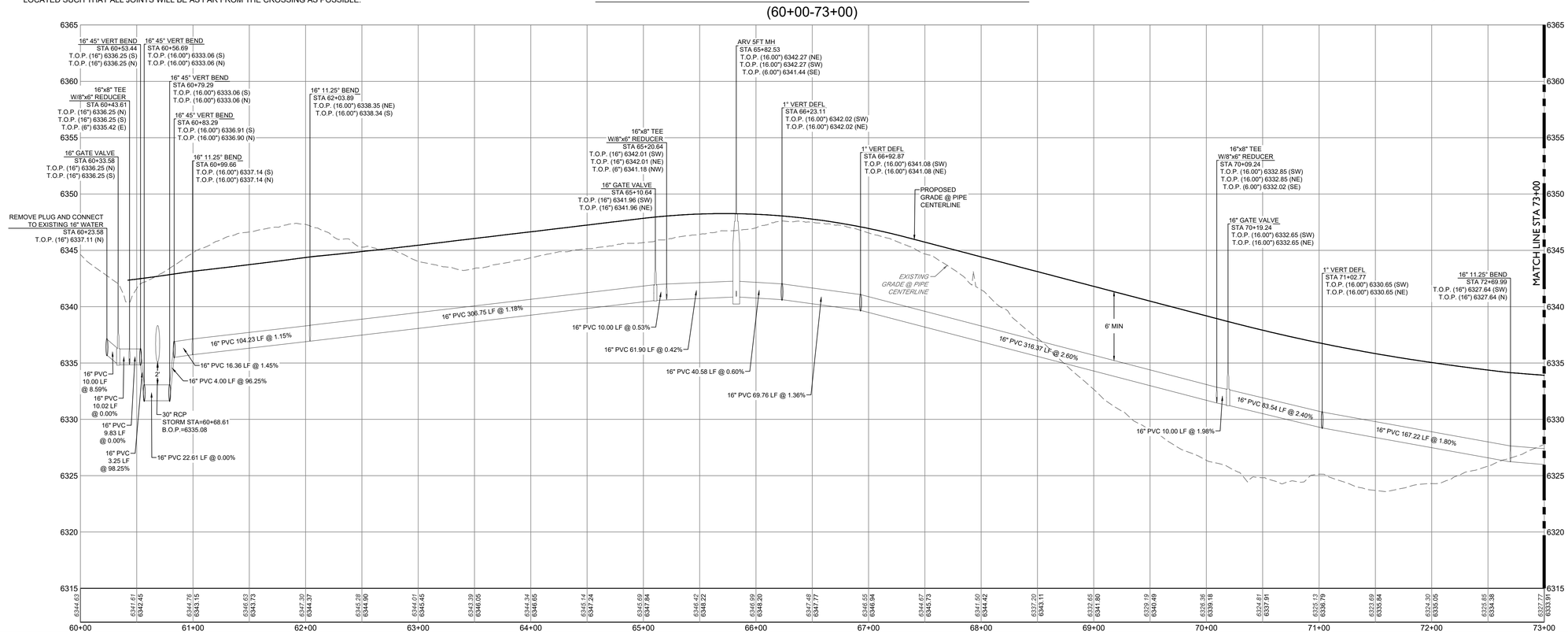
DAWSON TRAILS BLVD - WATER MAIN

(60+00-73+00)

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020



LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- PROPOSED SANITARY & STUB OUT
- SS — EXISTING SANITARY & STUB OUT
- S — SANITARY SERVICE
- W — WATER SERVICE
- PROPOSED WATER & STUB OUT
- W — EXISTING WATER & STUB OUT
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT

EXISTING / PROPOSED

- WATER VALVES
- BEND AND THRUST BLOCK
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ENGLEWOOD, CO 80113
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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
WATER P&P (1 OF 5)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 45 OF 70

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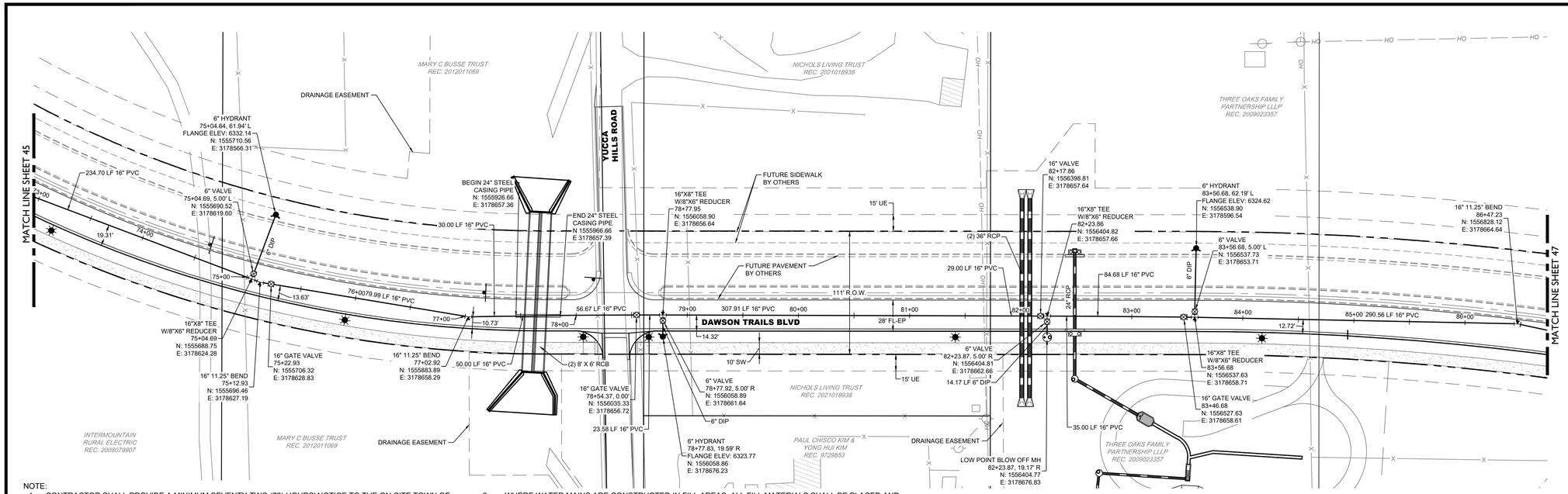

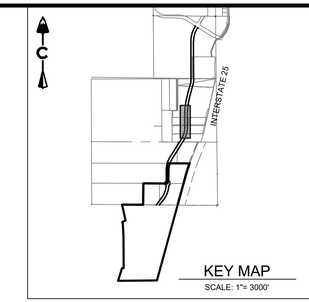

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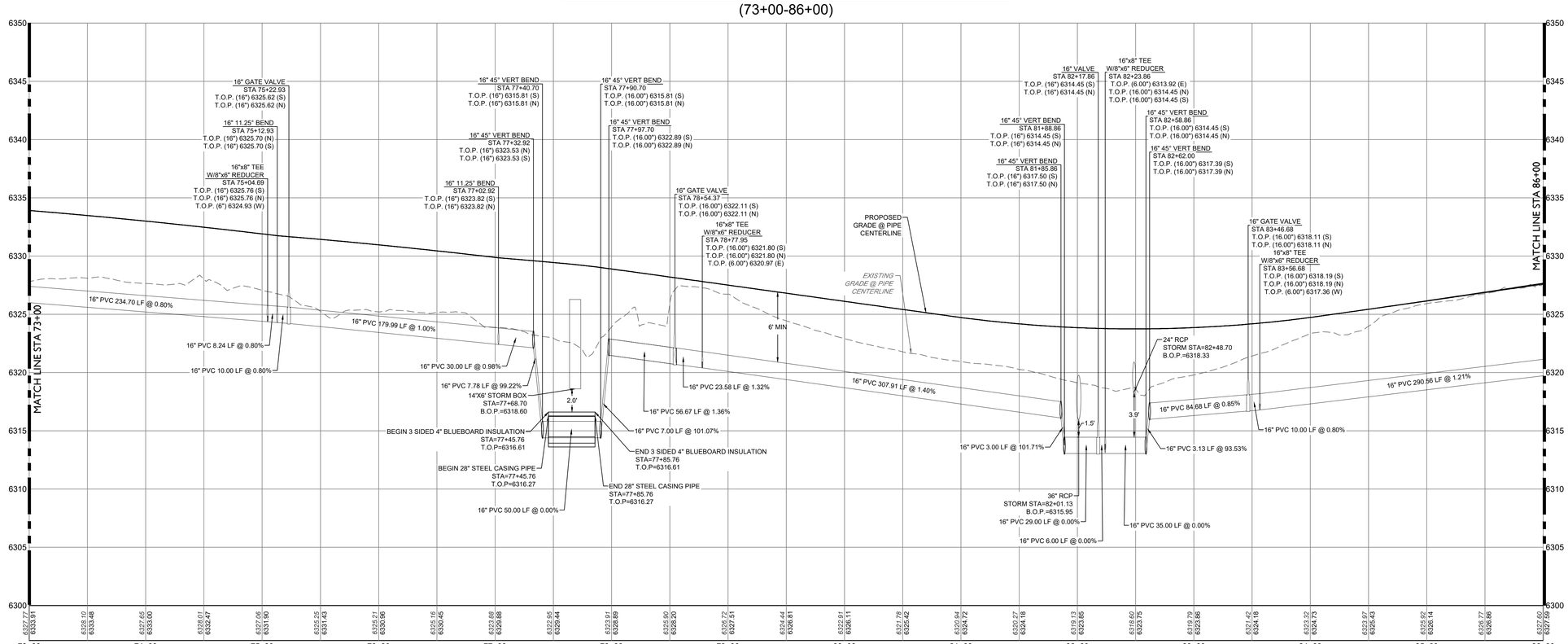
DAWSON TRAILS BLVD - WATER MAIN

(73+00-86+00)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
WATER P&P (2 OF 5)

WESTSIDE

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DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

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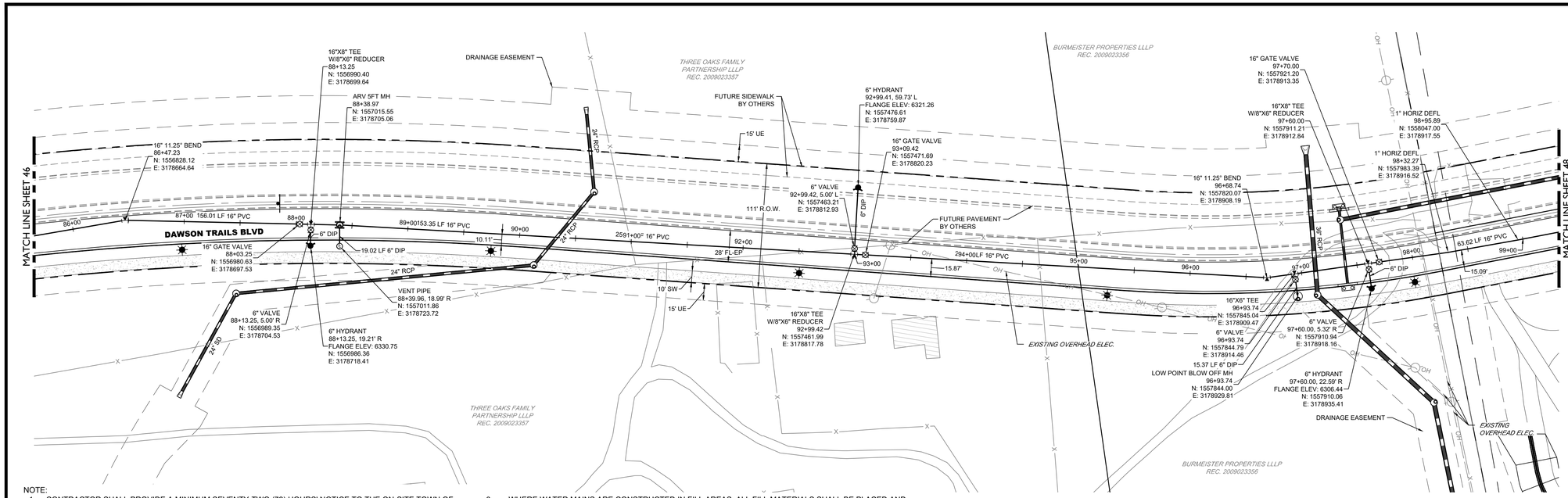

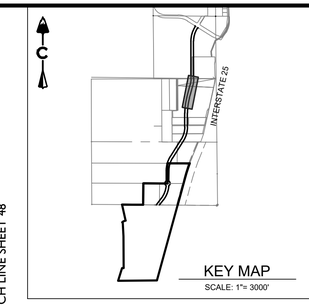

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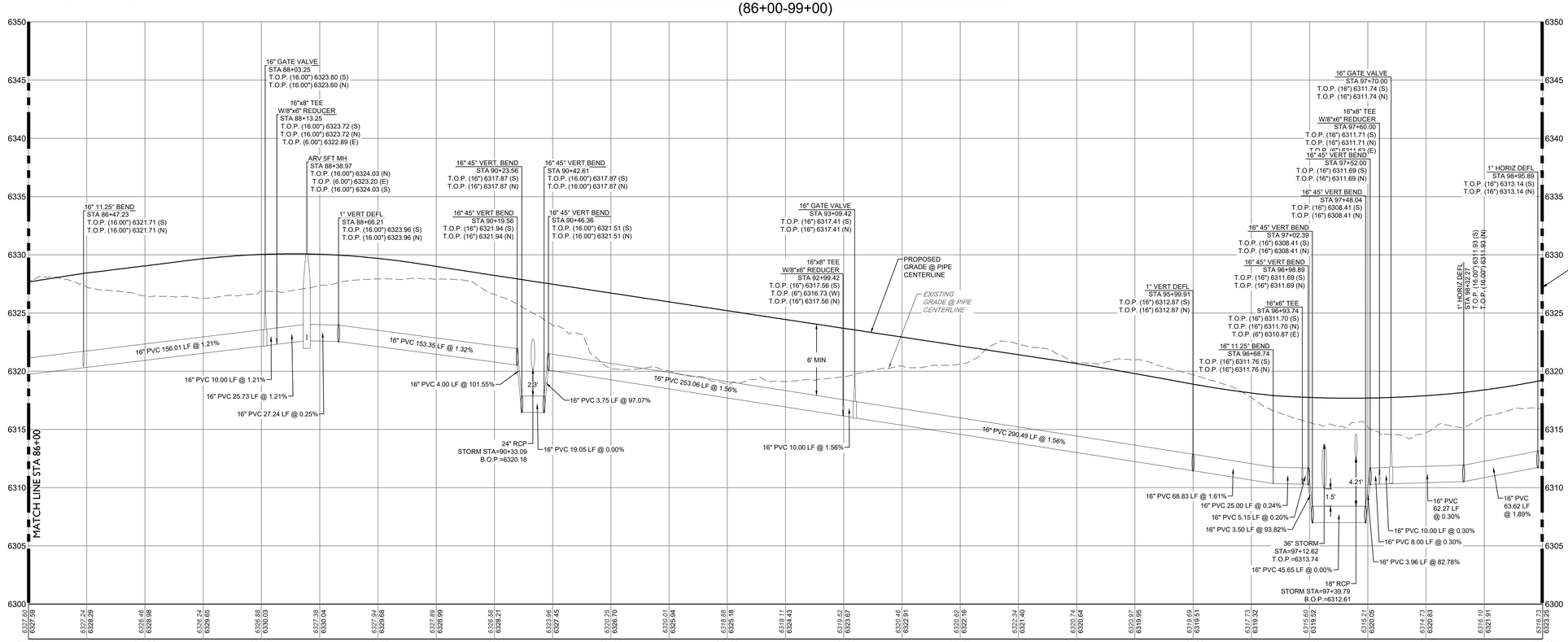
8. PER TOCR WATER CRITERIA SECTION 4.4.5, DEFLECTION SHALL NOT EXCEED ONE HALF OF THE MANUFACTURER'S MAXIMUM ALLOWABLE DEFECTION FOR THE SPECIFIED PIPE DIAMETER AND LAY LENGTH, OR ONE HALF OF THE MAXIMUM DEFLECTION ALLOWED BY AWAA, WHICHEVER IS LESS.

DAWSON TRAILS BLVD - WATER MAIN

(86+00-99+00)

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020



LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- PROPOSED SANITARY & STUB OUT
- SS — EXISTING SANITARY & STUB OUT
- S — SANITARY SERVICE
- W — WATER SERVICE
- PROPOSED WATER & STUB OUT
- W — EXISTING WATER & STUB OUT
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT

EXISTING / PROPOSED

- WATER VALVES
- BEND AND THRUST BLOCK
- FIRE HYDRANTS
- WATERLINE REDUCER
- WATER STUB WITH BLOW OFF
- AIR RELEASE VALVE MH & VENT PIPE
- STREET LIGHT POLES
- BLOCK NUMBER

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTVELY, AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
WATER P&P (3 OF 5)

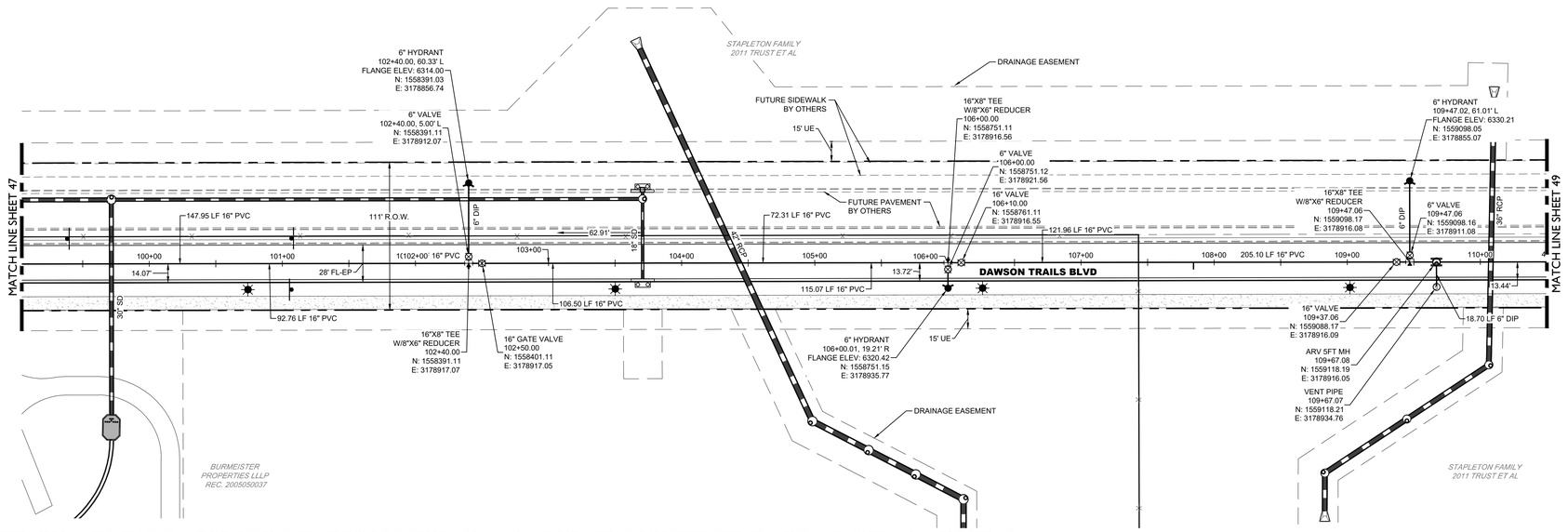
WESTSIDE

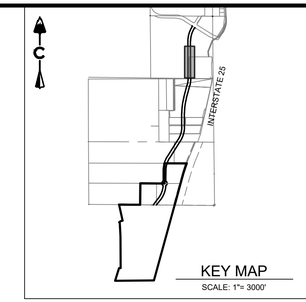
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 47 OF 70

2025-10-01 (6:43 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs WATER P&P.dwg





KEY MAP
SCALE: 1"= 3000'

0 50' 100'
1 inch = 50 ft.

PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

NOTE:

1. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOURS' NOTICE TO THE ON-SITE TOWN OF CASTLE ROCK CONSTRUCTION INSPECTOR, (720) 733-2200, PRIOR TO MAKING ANY CONNECTIONS/TIE-INS TO EXISTING WATER, SANITARY SEWER, AND/OR STORM SEWER SYSTEMS PROVIDED THAT THE UTILITY TIE-IN DOES NOT DISRUPT SERVICE TO EXISTING CASTLE ROCK WATER CUSTOMERS. IF THE TIE-IN WILL DISRUPT UTILITY SERVICE, THEN THE CONTRACTOR SHALL PROVIDED A MINIMUM THREE (3) WEEKS' NOTICE TO THE TCR CONSTRUCTION INSPECTOR TO ALLOW TIME FOR CR WATER TO PROVIDE WRITTEN NOTIFICATION TO EXISTING CUSTOMERS AFFECTED BY THE TIE-IN. ALL TOWN UTILITY TIE-INS MUST BE APPROVED BY CR WATER PRIOR TO COMMENCING WORK.
2. ALL UTILITY CUTS WITHIN THE RIGHT OF WAY TO BE BACKFILLED ABOVE ANY BEDDING REQUIREMENTS WITH FLOWABLE FILL UP TO SUBGRADE. EDGE-MILL IS REQUIRED AROUND THE PERIMETER OF THE SAW-CUT. MATCH EXISTING ASPHALT DEPTH AND COORDINATE WITH THE PUBLIC WORKS INSPECTOR.
3. VALVE BOXES AND MANHOLE RIMS SHALL BE BROUGHT TO THE FINISHED SURFACE AT THE TIME OF PAVEMENT PLACEMENT IN ACCORDANCE WITH TOWN STANDARD DETAILS.
4. ALL SURFACE FEATURES WITHIN UNPAVED PORTION OF PROJECT ARE TO BE BURIED 6"-12" BELOW FINAL ROAD GRADE.
5. AT INSTANCES WHERE A WATER MAIN CROSSES A STORM SEWER, REGARDLESS OF VERTICAL CLEARANCE, AND WHICH PIPE CROSSES OVER THE OTHER, ONE FULL STANDARD LENGTH SECTION OF EACH PIPE SHALL BE LOCATED SUCH THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE.
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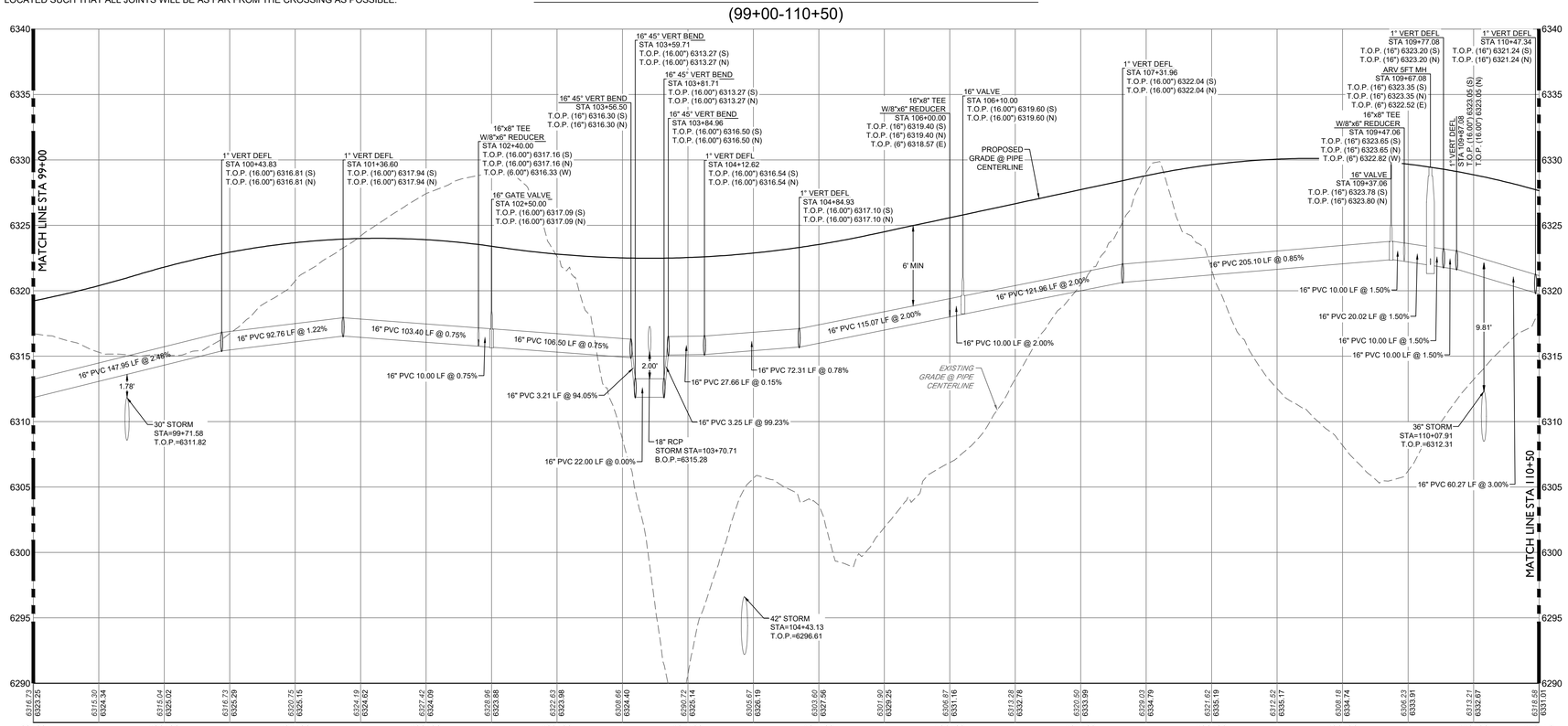
DAWSON TRAILS BLVD - WATER MAIN

(99+00-110+50)



DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
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- PROPOSED SANITARY & STUB OUT
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- BEND AND THRUST BLOCK
- FIRE HYDRANTS
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- BLOCK NUMBER

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
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CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOUR CORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
WATER P&P (4 OF 5)

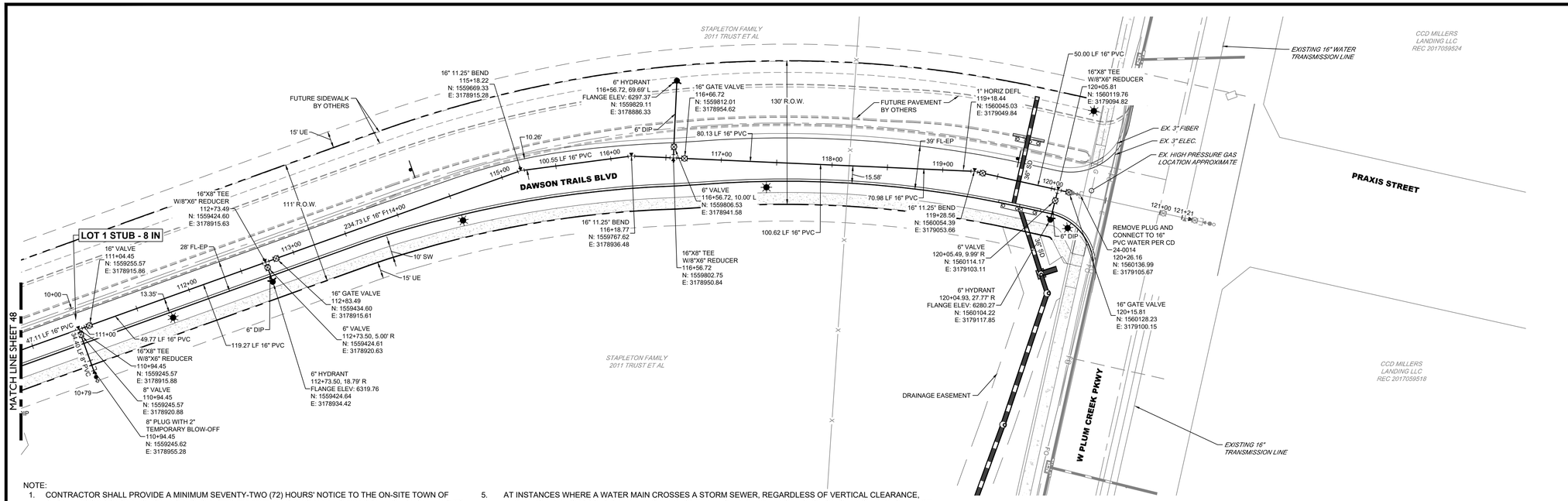
WESTSIDE

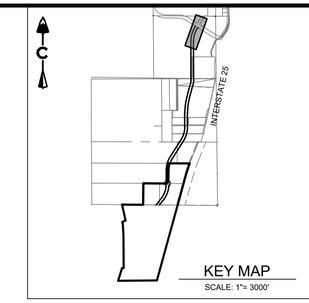
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 48 OF 70

2025-10-01 (6:43 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs WATER P&P.dwg





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DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LEGEND

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- PROPOSED SANITARY & STUB OUT
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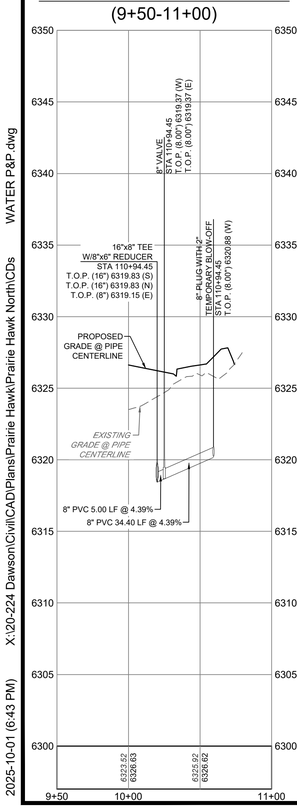
- AIR RELEASE VALVE MH & VENT PIPE
- STREET LIGHT POLES
- BLOCK NUMBER

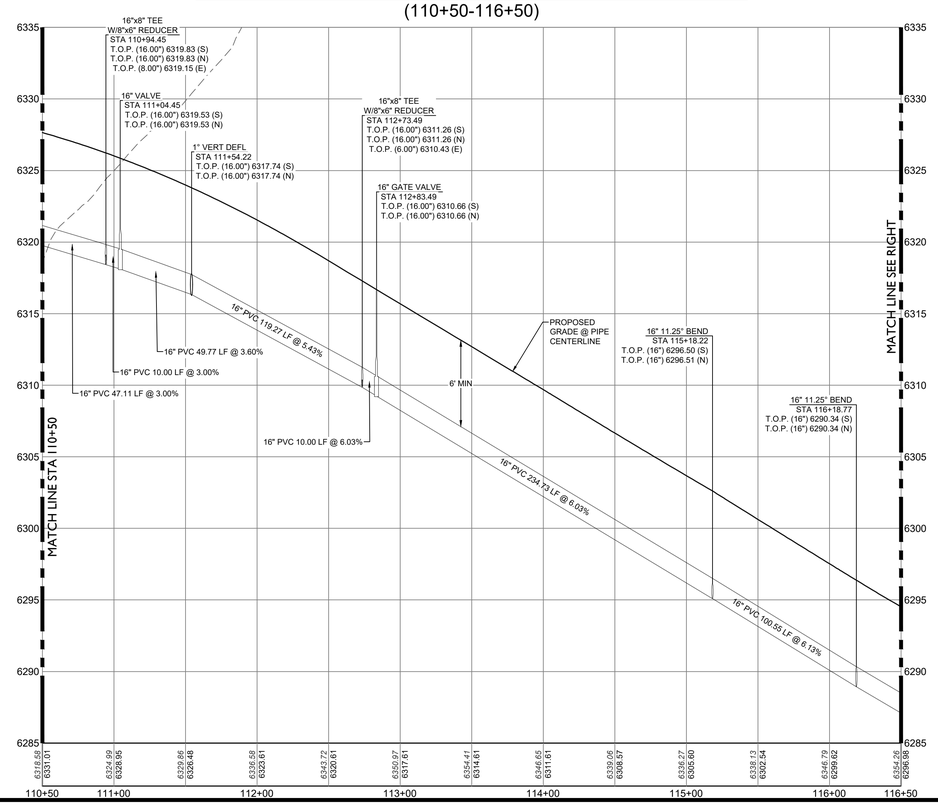
LOT 1 STUB - 8 IN

(9+50-11+00)



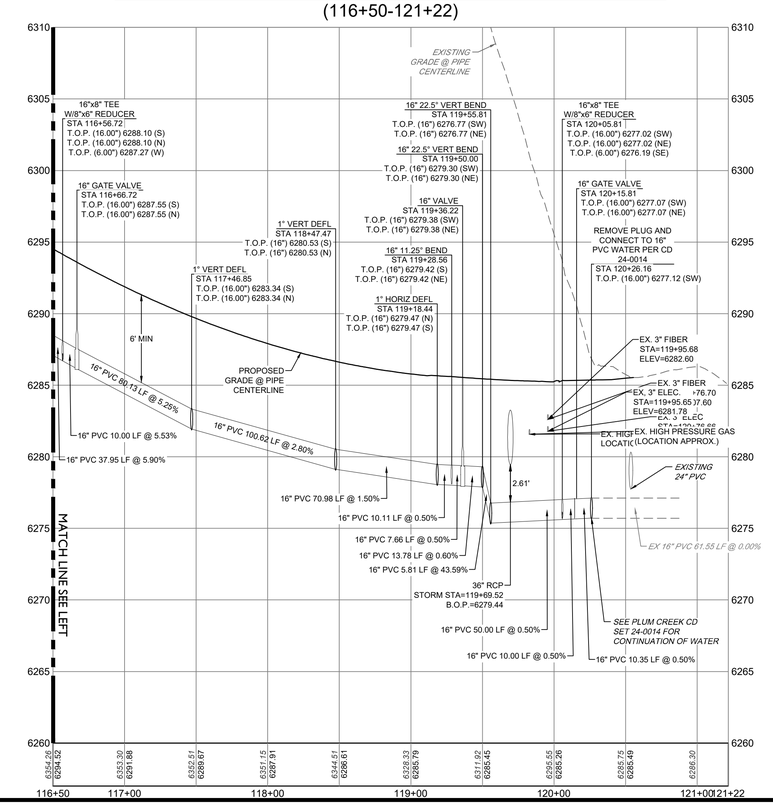
DAWSON TRAILS BLVD - WATER MAIN

(110+50-116+50)



DAWSON TRAILS BLVD - WATER MAIN

(116+50-121+22)



PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

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DEVELOPMENT SERVICES DATE

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

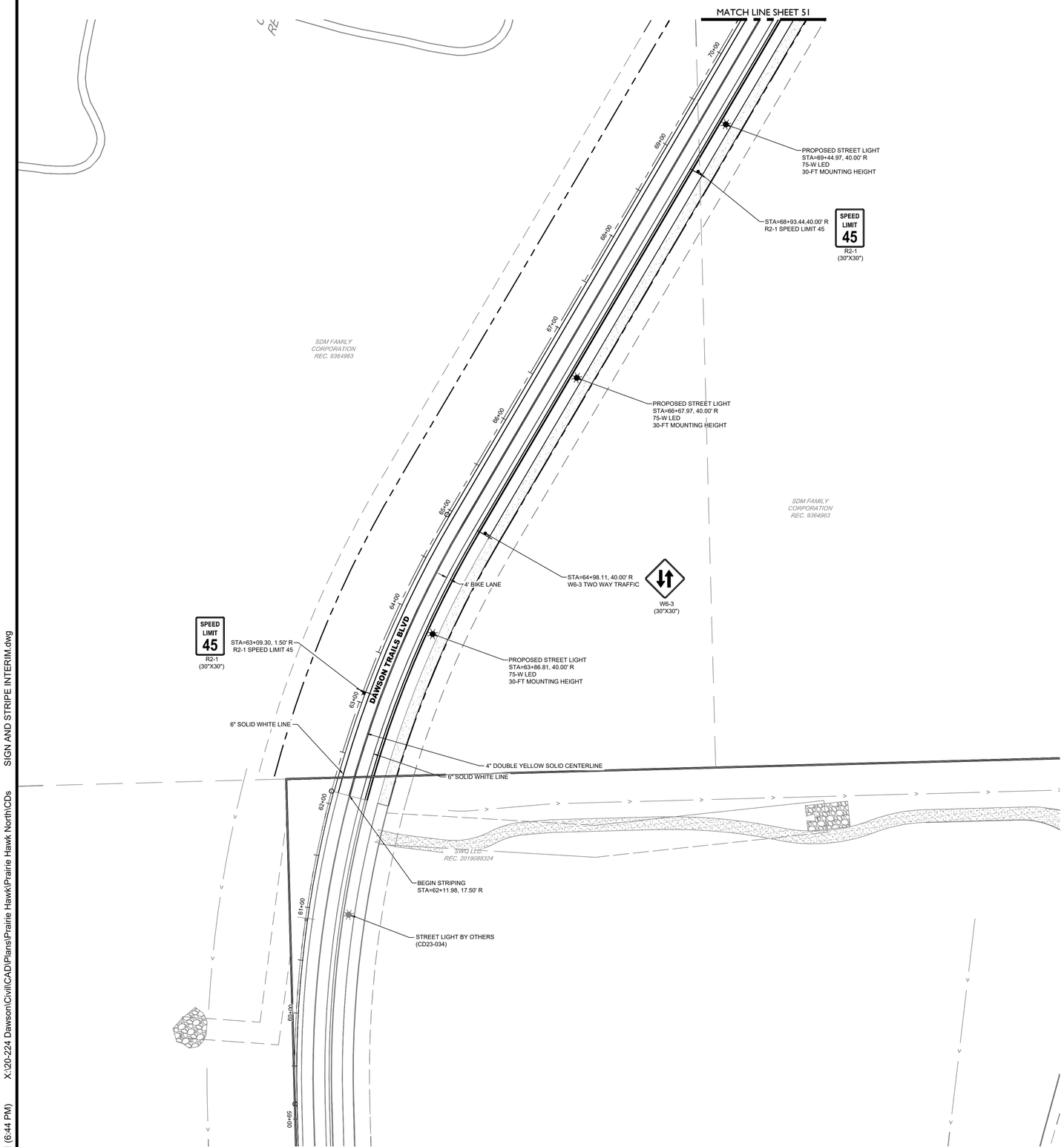
CONSTRUCTION DOCUMENTS
WATER P&P (5 OF 5)

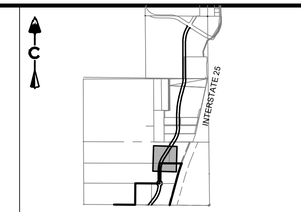
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 49 OF 70

2025-10-01 (6:43 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs WATER P&P.dwg





KEY MAP
SCALE: 1"= 3000'

C

0 50' 100'

1 inch = 50 ft.

LEGEND

XX	EXISTING
R	REMOVE EXISTING
XX	PROPOSED
B1	TYPE 1 - BARRICADE
B2	TYPE 2 - BARRICADE
B3	TYPE 3 - BARRICADE
CS	REGULAR ADVANCE CROSSWALK SIGN S1-1 (30" X 30")+ W16-P (24" X 12")
LP	STREET LIGHT POLE
SN	STREET NAME SIGN
NO	NO OUTLET SIGN W14-2 (30" X 30")
PC	PEDESTRIAN CROSSING WITH ARROW S1-1 (30" X 30" + W16-7
SA	STOP SIGN R1-1 (30" X 30") ALL WAY R1-3P (18" X 9")
SS	STOP SIGN R1-1 (30" X 30")
W-	4" WHITE DASHED LINE (10' DASH 30' GAP)
W2	24" SOLID WHITE STOP BAR
W4	4" SOLID WHITE LINE
W6	6" SOLID WHITE LINE
W8	8" SOLID WHITE LINE
WC	WHITE CROSSWALK STRIPING (X' x X' BAR, X' GAP) PLACE BARS PARALLEL W/ WHEEL PATH
Y2	4" SOLID DOUBLE YELLOW LINE (3" GAP)
Y4	4" SOLID YELLOW LINE
1	SIGN PER PLAN
25	25 MPH SPEED LIMIT SIGN R2-1 (24"x30")
35	35 MPH SPEED LIMIT SIGN R2-1 (24"x30")

PROFESSIONAL ENGINEER CERTIFICATION

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DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
SIGNAGE AND STRIPING PLAN (1 OF 6)

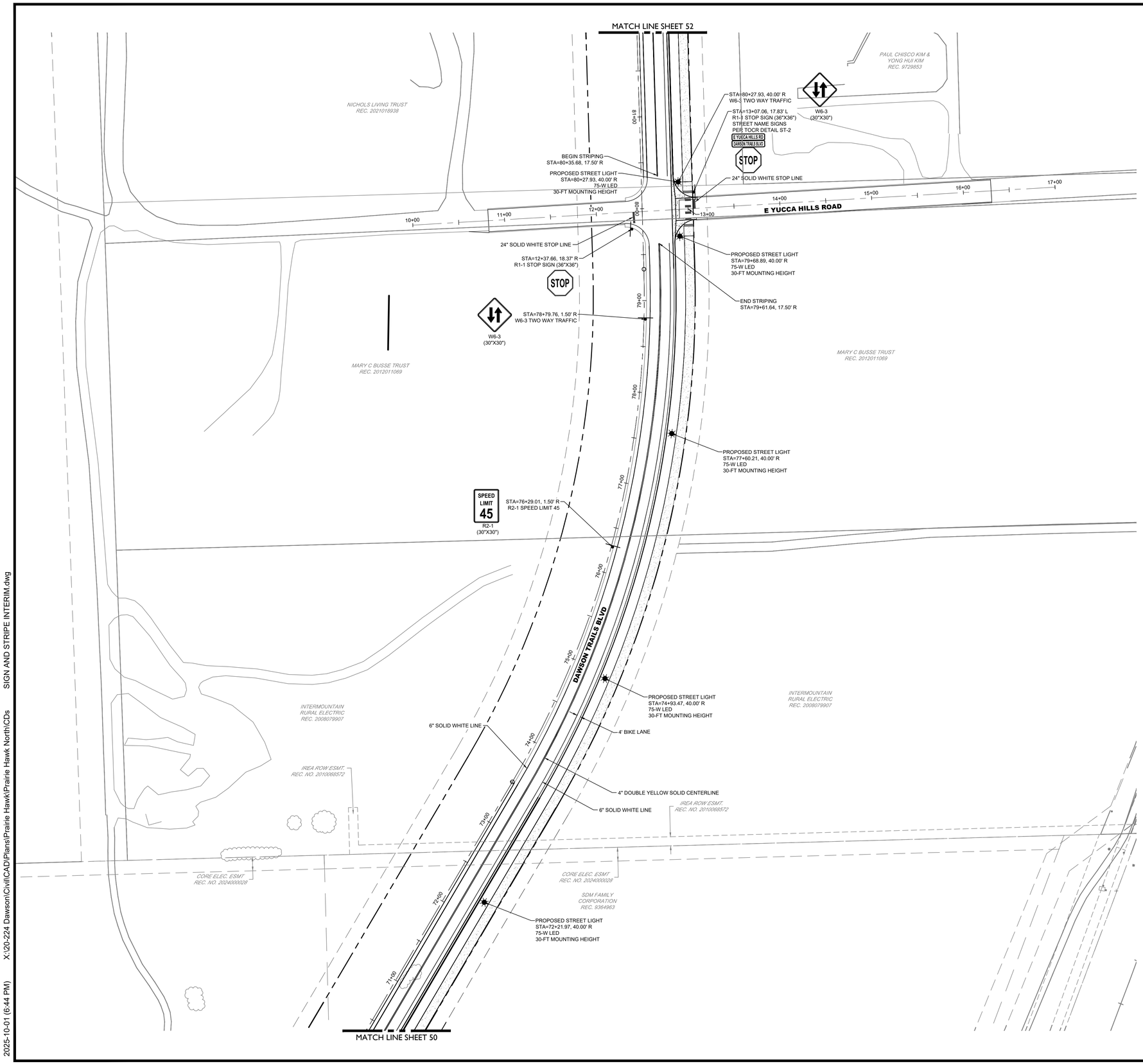
WESTSIDE

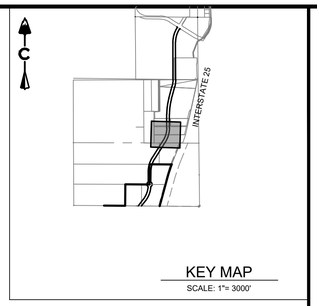
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
50 OF 70

2025-10-01 (6:44 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs SIGN AND STRIPE INTERIM.dwg





KEY MAP

SCALE: 1"= 3000'

C

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NOTE:

1. ALL PERMANENT LONGITUDINAL PAVEMENT STRIPING SHALL BE INSTALLED USING AN APPROVED REFLECTIVE TRAFFIC PAINT OR THERMOPLASTIC MATERIAL. REFLECTIVE BEADS SHALL BE APPLIED IN ACCORDANCE WITH CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUFACTURER'S REQUIREMENTS. ON CONCRETE SURFACES, A CONTRASTING BLACK EDGE TO WHITE LINES AND GROOVED INTO THE PAVEMENT SHALL BE UTILIZED.
2. STREET NAME SIGNS SHALL BE INSTALLED PER TOWN OF CASTLE ROCK THOROUGHFARE DESIGN CRITERIA, MANUAL SECTION(S) 4.2.7 OR 6.2.2 AND 6.2.3, AND PER TOWN OF CASTLE ROCK STANDARD DETAIL ST-2.

LEGEND

XX	EXISTING
R	REMOVE EXISTING
XX	PROPOSED
B1	TYPE 1 - BARRICADE
B2	TYPE 2 - BARRICADE
B3	TYPE 3 - BARRICADE
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LP	STREET LIGHT POLE
SN	STREET NAME SIGN
NO	NO OUTLET SIGN W14-2 (30" X 30") (NO OUTLET)
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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
SIGNAGE AND STRIPING PLAN (2 OF 6)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
51 OF 70

KEY MAP
SCALE: 1"= 3000'

C

0 50' 100'

1 inch = 50 ft.

NOTE:

1. ALL PERMANENT LONGITUDINAL PAVEMENT STRIPING SHALL BE INSTALLED USING AN APPROVED REFLECTIVE TRAFFIC PAINT OR THERMOPLASTIC MATERIAL. REFLECTIVE BEADS SHALL BE APPLIED IN ACCORDANCE WITH CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUFACTURER'S REQUIREMENTS. ON CONCRETE SURFACES, A CONTRASTING BLACK EDGE TO WHITE LINES AND GROOVED INTO THE PAVEMENT SHALL BE UTILIZED.
2. STREET NAME SIGNS SHALL BE INSTALLED PER TOWN OF CASTLE ROCK THOROUGHFARE DESIGN CRITERIA MANUAL SECTION(S) 4.2.7 OR 6.2.2 AND 6.2.3, AND PER TOWN OF CASTLE ROCK STANDARD DETAIL ST-2.

LEGEND

XX	EXISTING
R	REMOVE EXISTING
XX	PROPOSED
B1	TYPE 1 - BARRICADE
B2	TYPE 2 - BARRICADE
B3	TYPE 3 - BARRICADE
CS	REGULAR ADVANCE CROSSWALK SIGN S1-1 (30" X 30")+ W16-P (24" X 12")
LP	STREET LIGHT POLE
SN	STREET NAME SIGN
NO	NO OUTLET SIGN W14-2 (30" X 30")
PC	PEDESTRIAN CROSSING WITH ARROW S1-1 (30" X 30" + W16-7
SA	STOP SIGN R1-1 (30" X 30") ALL WAY R1-3P (18" X 6")
SS	STOP SIGN R1-1 (30" X 30")
W-	4" WHITE DASHED LINE (10' DASH 30' GAP)
W2	24" SOLID WHITE STOP BAR
W4	4" SOLID WHITE LINE
W6	6" SOLID WHITE LINE
W8	8" SOLID WHITE LINE
WC	WHITE CROSSWALK STRIPING (X' x X' BAR, X' GAP) PLACE BARS PARALLEL W/ WHEEL PATH
Y2	4" SOLID DOUBLE YELLOW LINE (3" GAP)
Y4	4" SOLID YELLOW LINE
1	SIGN PER PLAN
25	25 MPH SPEED LIMIT SIGN R2-1 (24"x30")
35	35 MPH SPEED LIMIT SIGN R2-1 (24"x30")

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
SIGNAGE AND STRIPING PLAN (3 OF 6)

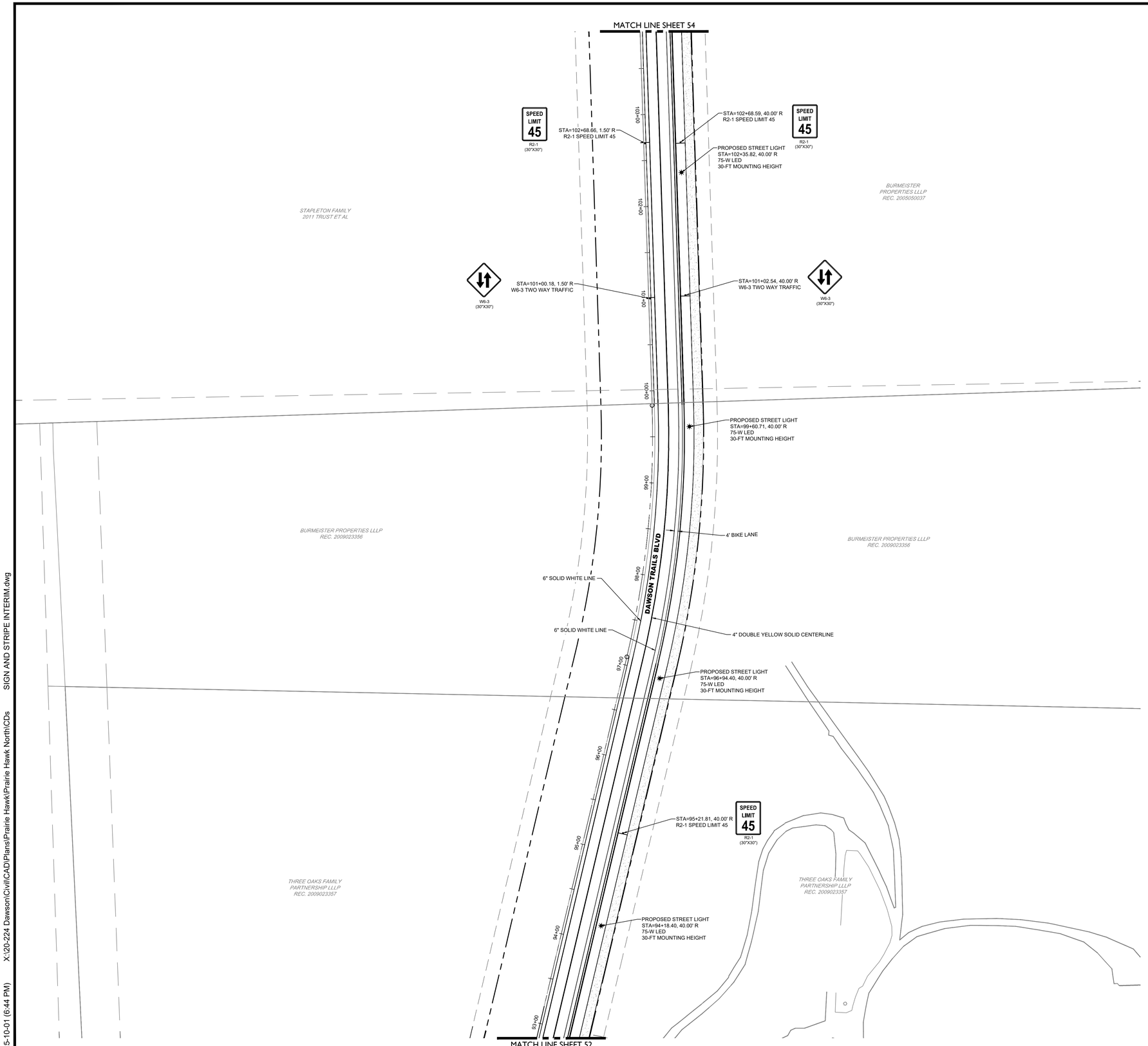
WESTSIDE

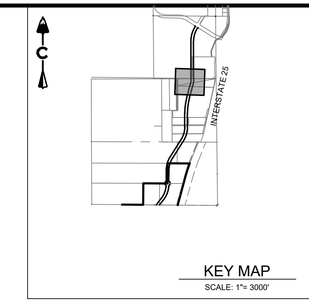
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 52 OF 70

2025-10-01 (6:44 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs SIGN AND STRIPE INTERIM.dwg





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LEGEND

XX	EXISTING
R	REMOVE EXISTING
XX	PROPOSED
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LP	STREET LIGHT POLE
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W4	4" SOLID WHITE LINE
W6	6" SOLID WHITE LINE
W8	8" SOLID WHITE LINE
WC	WHITE CROSSWALK STRIPING (X' x X' BAR, X' GAP) PLACE BARS PARALLEL W/ WHEEL PATH
Y2	4" SOLID DOUBLE YELLOW LINE (3" GAP)
Y4	4" SOLID YELLOW LINE
1	SIGN PER PLAN
25	25 MPH SPEED LIMIT SIGN R2-1 (24"x30")
35	35 MPH SPEED LIMIT SIGN R2-1 (24"x30")

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
SIGNAGE AND STRIPING PLAN (4 OF 6)

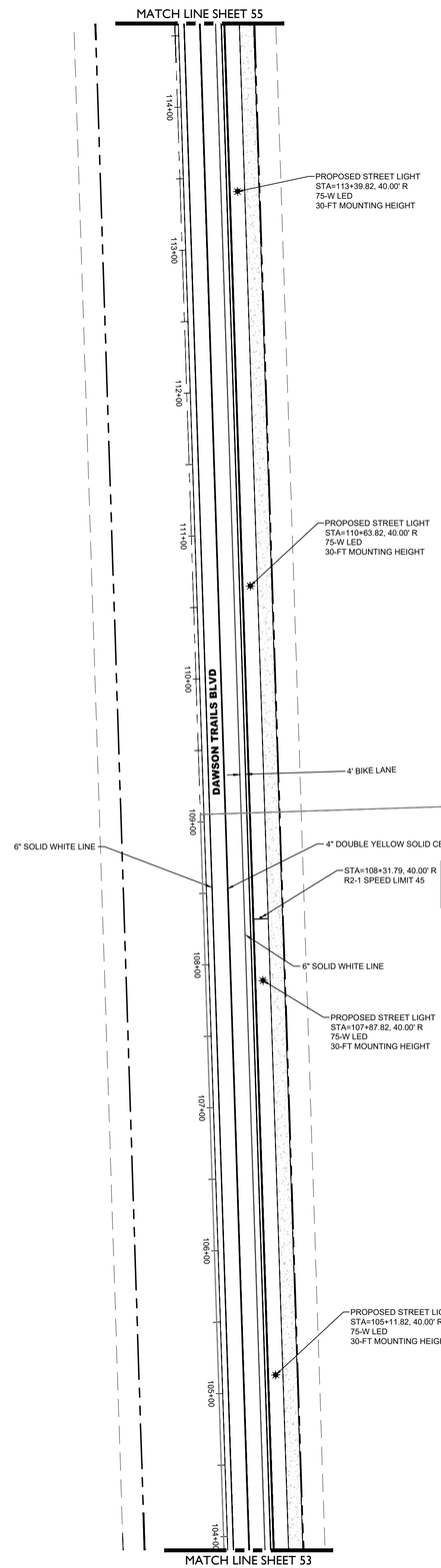
WESTSIDE

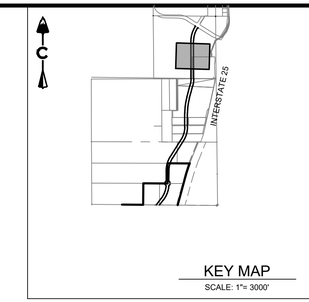
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
53 OF 70

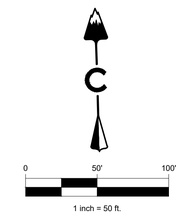
2025-10-01 (6:44 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs SIGN AND STRIPE INTERIM.dwg





KEY MAP

SCALE: 1"= 3000'



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2. STREET NAME SIGNS SHALL BE INSTALLED PER TOWN OF CASTLE ROCK THOROUGHFARE DESIGN CRITERIA MANUAL SECTION(S) 4.2.7 OR 6.2.2 AND 6.2.3, AND PER TOWN OF CASTLE ROCK STANDARD DETAIL ST-2.

LEGEND

XX	EXISTING
R	REMOVE EXISTING
XX	PROPOSED
B1	TYPE 1 - BARRICADE
B2	TYPE 2 - BARRICADE
B3	TYPE 3 - BARRICADE
CS	REGULAR ADVANCE CROSSWALK SIGN S1-1 (30" X 30")+ W16-P (24" X 12") — PED XING, AHEAD
LP	STREET LIGHT POLE
SN	STREET NAME SIGN
NO	NO OUTLET SIGN W14-2 (30" X 30") — NO OUTLET
PC	PEDESTRIAN CROSSING WITH ARROW S1-1 (30" X 30" + W16-7 — PED XING
SA	STOP SIGN R1-1 (30" X 30") ALL WAY R1-3P (18" X 6") — STOP, ALL WAY
SS	STOP SIGN R1-1 (30" X 30") — STOP
W-	4" WHITE DASHED LINE (10' DASH 30' GAP)
W2	24" SOLID WHITE STOP BAR
W4	4" SOLID WHITE LINE
W6	6" SOLID WHITE LINE
W8	8" SOLID WHITE LINE
WC	WHITE CROSSWALK STRIPING (X' x X' BAR, X' GAP) PLACE BARS PARALLEL W/ WHEEL PATH
Y2	4" SOLID DOUBLE YELLOW LINE (3" GAP)
Y4	4" SOLID YELLOW LINE
1	SIGN PER PLAN
25	25 MPH SPEED LIMIT SIGN R2-1 (24"x30")
35	35 MPH SPEED LIMIT SIGN R2-1 (24"x30")

PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

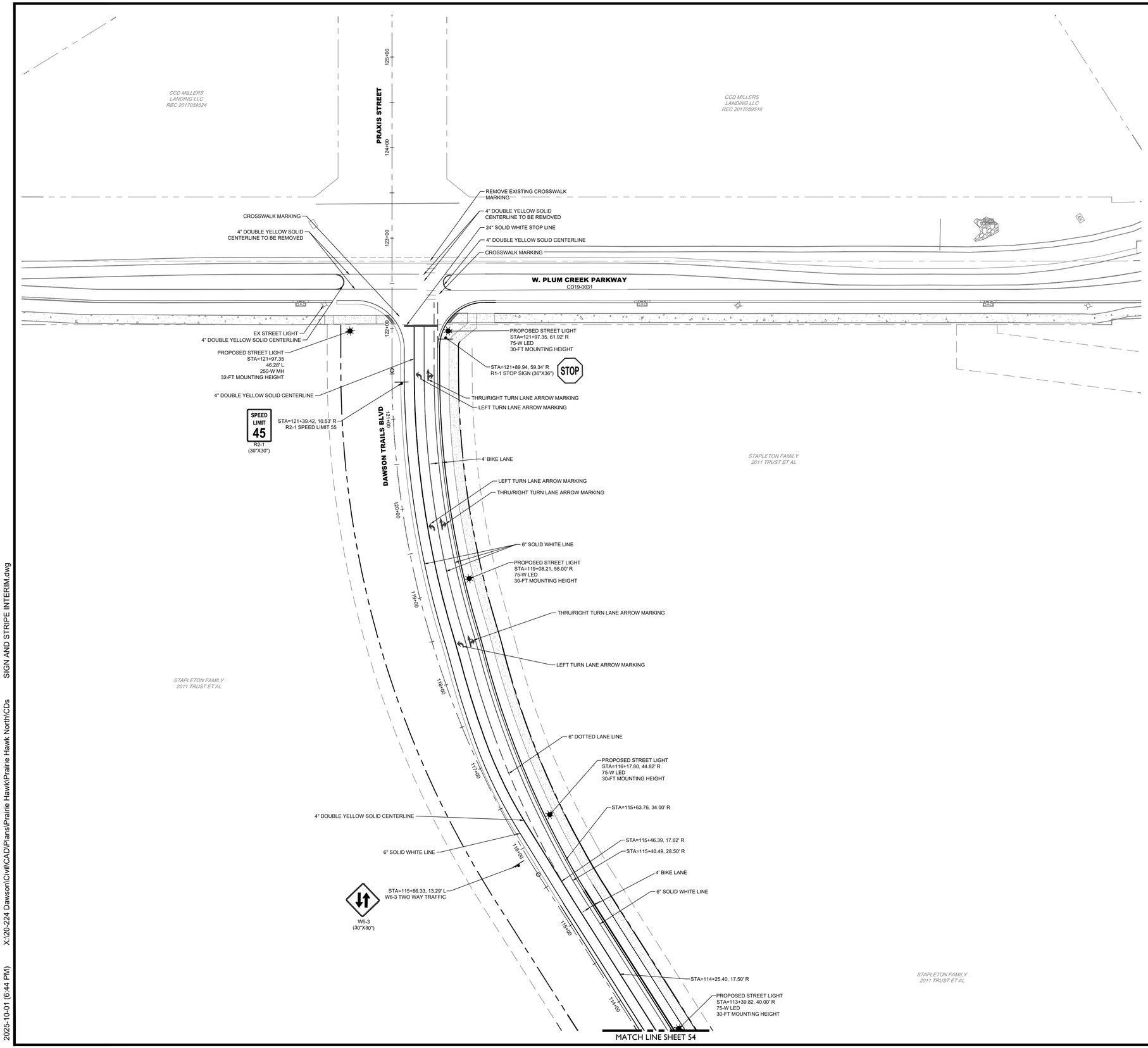
CONSTRUCTION DOCUMENTS
SIGNAGE AND STRIPING PLAN (5 OF 6)

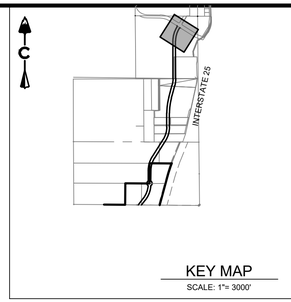
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
54 OF 70





KEY MAP
SCALE: 1"= 3000'

0 50' 100'
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NOTE:
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LEGEND

XX	EXISTING
R	REMOVE EXISTING
XX	PROPOSED
B1	TYPE 1 - BARRICADE
B2	TYPE 2 - BARRICADE
B3	TYPE 3 - BARRICADE
CS	REGULAR ADVANCE CROSSWALK SIGN S1-1 (30" X 30")+ W16-P (24" X 12")
LP	STREET LIGHT POLE
SN	STREET NAME SIGN
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PROFESSIONAL ENGINEER CERTIFICATION

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
SIGNAGE AND STRIPING PLAN (6 OF 6)

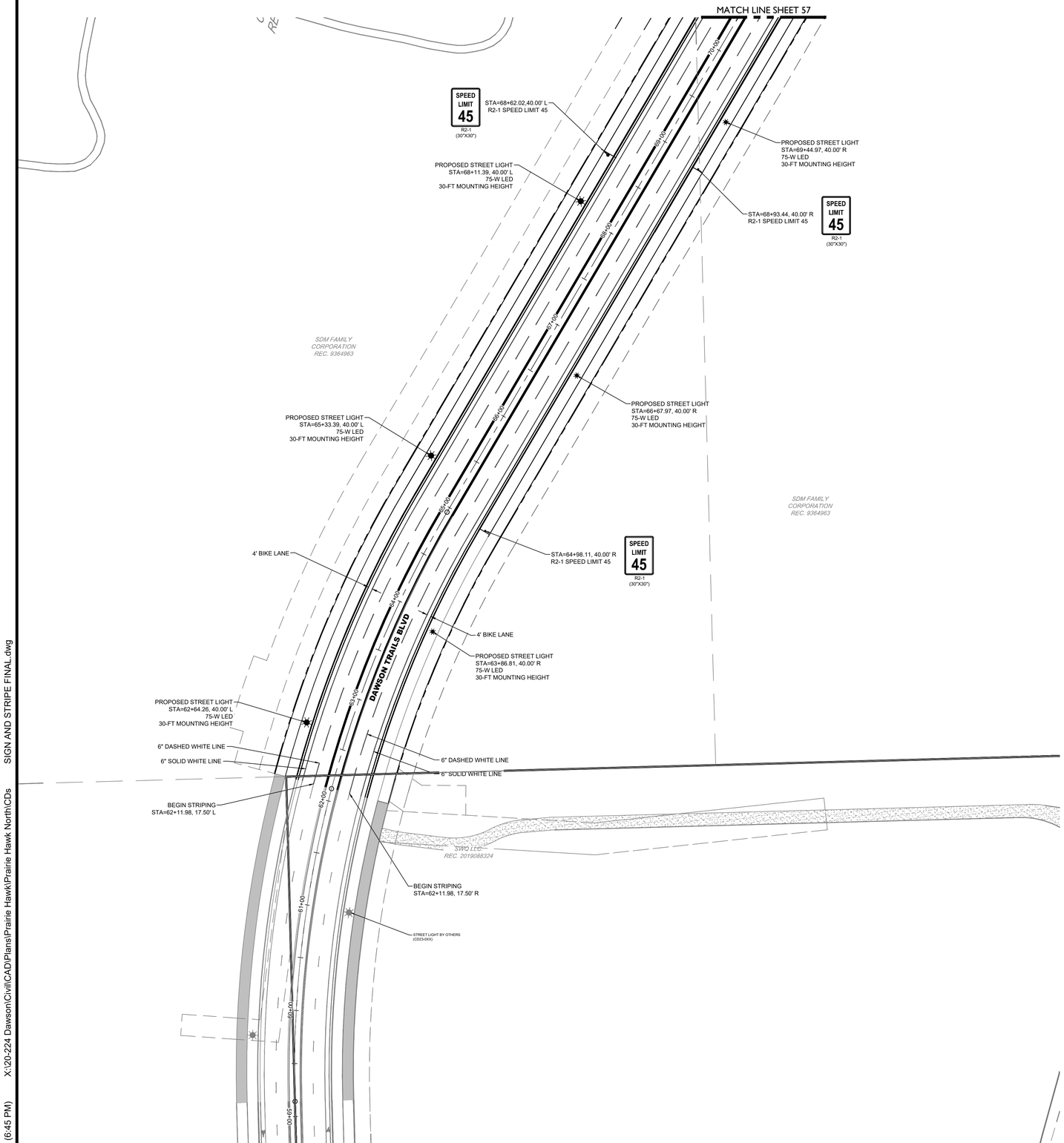
WESTSIDE

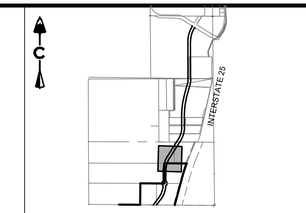
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 55 OF 70

2025-10-01 (6:44 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs SIGN AND STRIPE INTERIM.dwg





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FOR REFERENCE ONLY

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

PROFESSIONAL ENGINEER CERTIFICATION

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DEVELOPMENT SERVICES DATE

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
FINAL SIGNAGE AND STRIPING PLAN (1 OF 6)

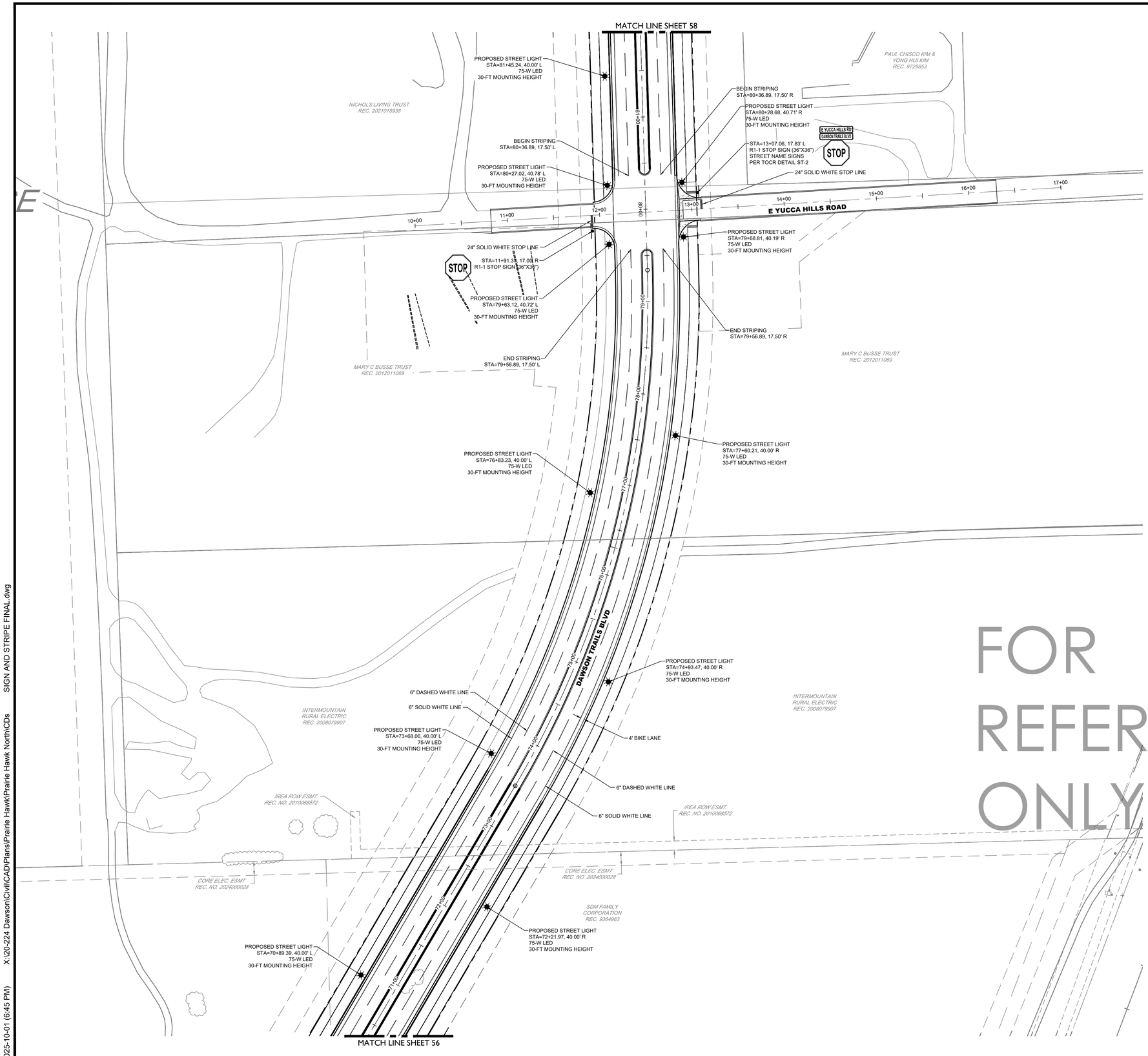
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 56 OF 70

2025-10-01 (6:45 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs SIGN AND STRIPE FINAL.dwg



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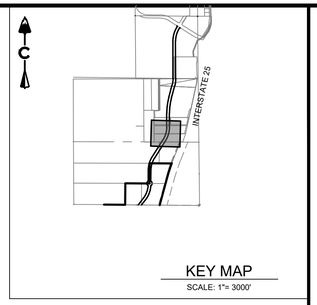

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DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
FINAL SIGNAGE AND STRIPING PLAN (2 OF 6)

WESTSIDE

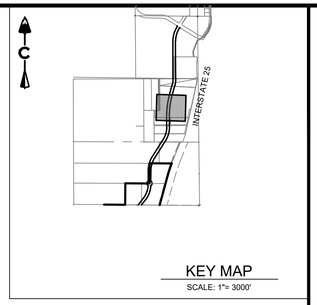
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
57 OF 70

2025-10-01 (6:45 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs SIGN AND STRIPE FINAL.dwg

FOR REFERENCE ONLY



KEY MAP
SCALE: 1"= 3000'

C

0 50' 100'

1 inch = 50 ft.

LEGEND

XX	EXISTING
R	REMOVE EXISTING
XX	PROPOSED
B1	TYPE 1 - BARRICADE
B2	TYPE 2 - BARRICADE
B3	TYPE 3 - BARRICADE
CS	REGULAR ADVANCE CROSSWALK SIGN S1-1 (30" X 30")+ W16-P (24" X 12")
LP	STREET LIGHT POLE
SN	STREET NAME SIGN
NO	NO OUTLET SIGN W14-2 (30" X 30")
PC	PEDESTRIAN CROSSING WITH ARROW S1-1 (30" X 30" + W16-7
SA	STOP SIGN R1-1 (30" X 30") ALL WAY R1-3P (18" X 6")
SS	STOP SIGN R1-1 (30" X 30")
W-	4" WHITE DASHED LINE (10' DASH 30' GAP)
W2	24" SOLID WHITE STOP BAR
W4	4" SOLID WHITE LINE
W6	6" SOLID WHITE LINE
W8	8" SOLID WHITE LINE
WC	WHITE CROSSWALK STRIPING (X' x X' BAR, X' GAP) PLACE BARS PARALLEL W/ WHEEL PATH
Y2	4" SOLID DOUBLE YELLOW LINE (3" GAP)
Y4	4" SOLID YELLOW LINE
1	SIGN PER PLAN
25	25 MPH SPEED LIMIT SIGN R2-1 (24"x30")
35	35 MPH SPEED LIMIT SIGN R2-1 (24"x30")

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

MICHAEL GOODHUE, P.E. DATE
STATE OF COLORADO # 48230

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL.

DEVELOPMENT SERVICES DATE

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
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ENGLEWOOD, CO 80113
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ENERGY
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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
FINAL SIGNAGE AND STRIPING PLAN (3 OF 6)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

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58 OF 70

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
FINAL SIGNAGE AND STRIPING PLAN (4 OF 6)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

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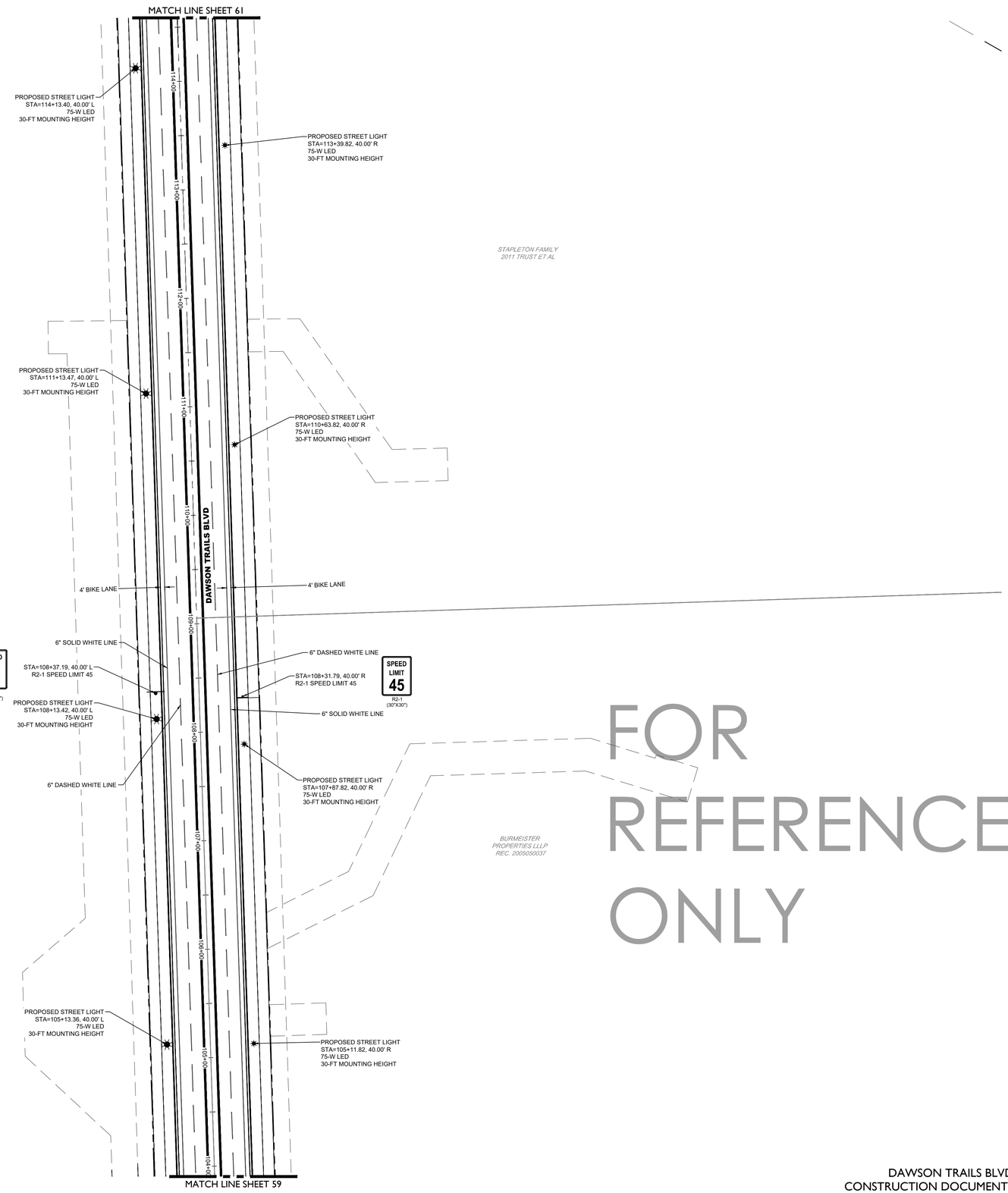

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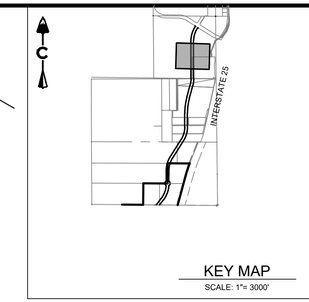

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DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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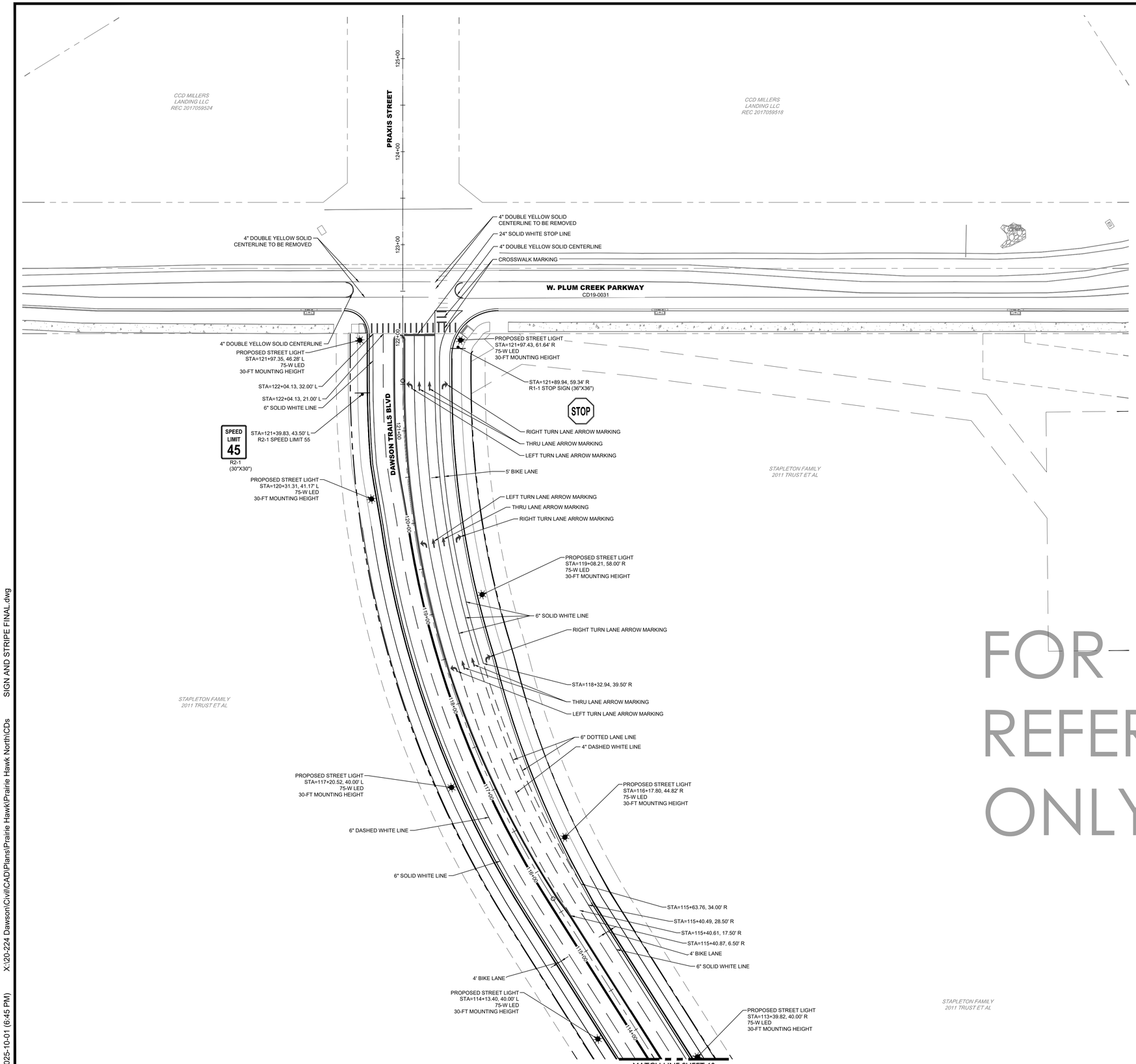
DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
FINAL SIGNAGE AND STRIPING PLAN (5 OF 6)

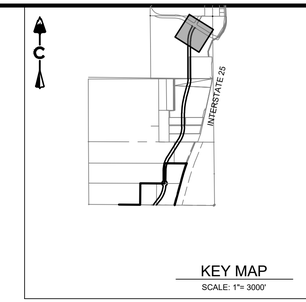
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 60 OF 70





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FOR-REFERENCE ONLY

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
FINAL SIGNAGE AND STRIPING PLAN (6 OF 6)

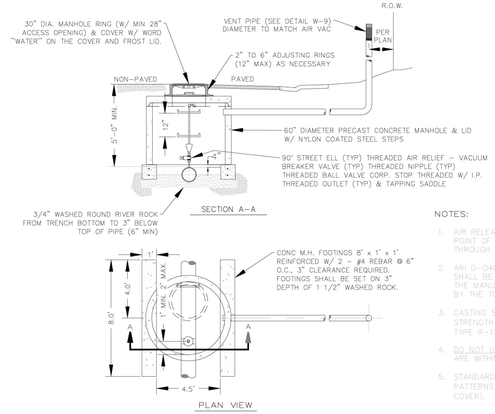
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 61 OF 70

2025-10-01 (6:45 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs SIGN AND STRIPE FINAL.dwg



NOTES:

1. AIR RELEASE VALVE SHALL BE PLACED @ THE HIGH POINT OF THE MAIN WATER LINE OR AS DETERMINED THROUGH PLAN REVIEW.
2. ARI D-040 COMBINATION AIR VALVE "BARAK" SHALL BE USED. SIZING TO BE ESTABLISHED FROM THE MANUFACTURER'S SIZING TABLES & APPROVED BY THE TOWN.
3. CASTING SPECS: ASTM A-48 W/ A MIN TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1758 RING & COVER OR APPROVED EQUAL).
4. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE WITHIN DRAINAGE WAYS.
5. STANDARD MANUFACTURER'S LETTERING SIZES & PATTERNS (LETTERING SHALL BE CAST AS PART OF COVER).

Sheet Revisions	
Date	Comments
8/13	REVISED PER STAFF COMMENTS
3/18	REVISED PER STAFF COMMENTS
3/20	REVISED PER STAFF COMMENTS
6/22	REVISED PER STAFF COMMENTS

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
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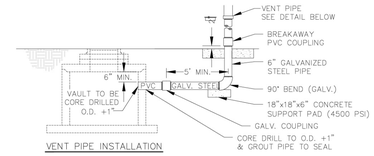
AIR RELEASE VALVE & VAULT

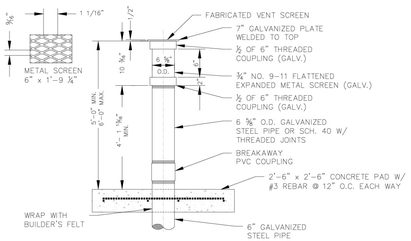
DETAIL PLAN NO. W-8
Sheet 1 of 1

Issued By: Town of Castle Rock, Development Services January 1, 2023

NOTE: VENT PIPES TO BE LOCATED IN THE FIELD @ THE NEAREST INTERSECTION OF THE STREET PROPERTY LINE & SIDE LOT LINE. PAINT PIPE SAFETY YELLOW & LOCATE MANHOLE W/ DISTANCE & DIRECTIONS SIMILAR TO MARKER POST.



VENT PIPE INSTALLATION



VENT PIPE & BREAK–AWAY COUPLING DETAILS

Sheet Revisions	
Date	Comments
3/18	REVISED PER STAFF COMMENTS
3/20	REVISED PER STAFF COMMENTS
6/22	REVISED PER STAFF COMMENTS

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VENT PIPE

DETAIL PLAN NO. W-9
Sheet 1 of 1

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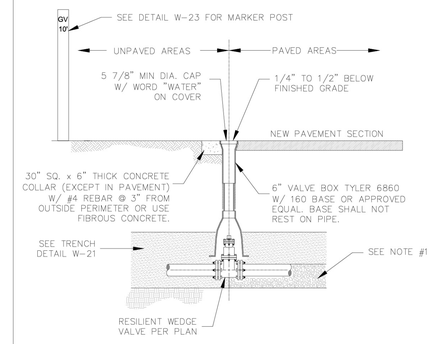

NOTES:

1. CARE SHALL BE TAKEN WHEN INSTALLING VALVES TO ASSURE PROPER SUPPORT OF THE VALVE. THE ENGINEER MAY REQUIRE 3/4" CRUSHED ROCK TO BE INSTALLED UNDER THE VALVE TO PROVIDE PROPER SUPPORT.
2. VALVES SHALL NOT BE PLACED IN CONCRETE CROSS PANS, GUTTERS, OR OTHER DRAINAGE WAYS.
3. OPERATING NUTS OR EXTENSIONS SHALL NOT BE SET CLOSER THAN THREE (3) FEET FROM FINISHED GRADE. IF OPERATING NUT IS DEEPER THAN FIVE (5) FEET FROM FINAL GRADE, PROVIDE A 1 1/4" EXTENSION SHAFT W/ CENTERING RING. OPERATOR EXTENSIONS SHALL BE CONNECTED TO THE VALVE OPERATOR NUT USING A SET SCREW.
4. GATE VALVE SHALL BE POLYETHYLENE WRAPPED (8 MIL).
5. CONCRETE COLLARS & MARKER POSTS ARE REQUIRED WHEN VALVE IS LOCATED IN AN UNPAVED AREA.
6. VALVE BOXES ARE TO BE BROUGHT UP TO GRADE @ THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.
7. SEE DETAILS W–13 & W–14 FOR TYPICAL VALVE LOCATIONS.
8. TRACER WIRE SHALL BE ROUTED AROUND TO NORTH OR EAST OF VALVE BOX (SEE DETAIL W–28).

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3/20	REVISED PER STAFF COMMENTS

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TYPICAL VALVE BOX

DETAIL PLAN NO. W-10
Sheet 1 of 1

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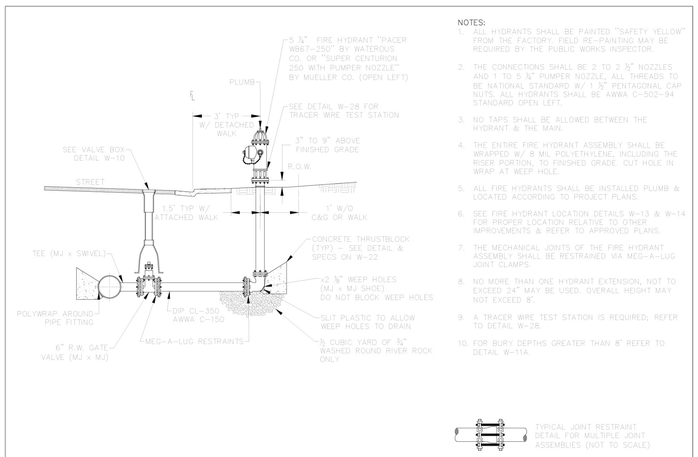

NOTES:

1. ALL HYDRANTS SHALL BE PAINTED "SAFETY YELLOW" FROM THE FACTORY. FIELD RE–PAINTING MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR.
2. THE CONNECTIONS SHALL BE 2 TO 2 ½" NOZZLES AND 1 TO 5 ¼" PUMPER NOZZLE, ALL THREADS TO BE NATIONAL STANDARD W/ 1 ¾" PENTAGONAL CAP NUTS. ALL HYDRANTS SHALL BE AWWA C–502–94 STANDARD OPEN LEFT.
3. NO TAPS SHALL BE ALLOWED BETWEEN THE HYDRANT & THE MAIN.
4. THE ENTIRE FIRE HYDRANT ASSEMBLY SHALL BE WRAPPED W/ 8 MIL POLYETHYLENE, INCLUDING THE RISER PORTION, TO FINISHED GRADE. CUT HOLE IN WRAP AT WEEP HOLE.
5. ALL FIRE HYDRANTS SHALL BE INSTALLED PLUMB & LOCATED ACCORDING TO PROJECT PLANS.
6. SEE FIRE HYDRANT LOCATION DETAILS W–13 & W–14 FOR PROPER LOCATION RELATIVE TO OTHER IMPROVEMENTS & REFER TO APPROVED PLANS.
7. THE MECHANICAL JOINTS OF THE FIRE HYDRANT ASSEMBLY SHALL BE RESTRAINED VIA MEG–A–LUG JOINT CLAMPS.
8. NO MORE THAN ONE HYDRANT EXTENSION, NOT TO EXCEED 24" MAY BE USED. OVERALL HEIGHT MAY NOT EXCEED 8'.
9. A TRACER WIRE TEST STATION IS REQUIRED; REFER TO DETAIL W–28.
10. FOR BURY DEPTHS GREATER THAN 8' REFER TO DETAIL W–11A.

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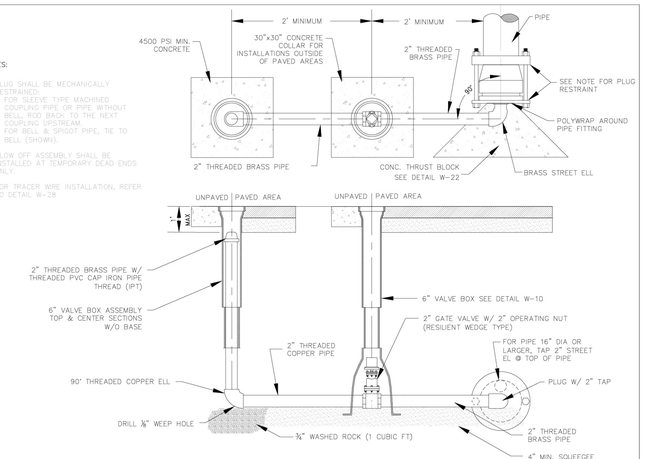
FIRE HYDRANT ASSEMBLY

DETAIL PLAN NO. W-11
Sheet 1 of 1

Issued By: Town of Castle Rock, Development Services January 1, 2023

NOTES:

1. PLUG SHALL BE MECHANICALLY RESTRAINED.
   A. FOR SLEEVE TYPE MACHINED COUPLING PIPE OR PIPE WITHOUT BELL, RIO BACK TO THE NEXT COUPLING UPSTREAM.
   B. FOR BELL & SPIGOT PIPE, TIE TO BELL (SHOWN).
2. BLOW OFF ASSEMBLY SHALL BE INSTALLED AT TEMPORARY DEAD ENDS ONLY.
3. FOR TRACER WIRE INSTALLATION, REFER TO DETAIL W–28



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TEMPORARY BLOW-OFF ASSEMBLY

DETAIL PLAN NO. W-16
Sheet 1 of 1

Issued By: Town of Castle Rock, Development Services January 1, 2023

LENGTH OF RESTRAINED PIPE

PIPE SIZE	4"	6"	8"	12"	16"	20"	24"
FITTING	L	L	L	L	L	L	L
90° BEND, TEE, PLUG OR VALVE	30'	45'	60'	86'	108'	132'	155'
45° BEND	M1	13'	18'	25'	32'	39'	45'
22 1/2° BEND	M1	M1	M1	M1	M1	M1	M1
11 1/4° BEND	--	--	M1	M1	M1	M1	M1

LEGEND

L = LENGTH

M1 = MINIMUM OF 1 FULL LENGTH OF PIPE

NOTES:

1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES & BENDS.
2. MINIMUM 5' GROUND COVER REQUIRED.
3. ALL FITTINGS SHALL BE FITTED WITH MEG–A–LUGS.
4. PIPE RESTRAINTS SHALL BE AS FOLLOWS:
   A. D.I.P. – RESTRAINTS FOR STD. MECHANICAL JOINTS SHALL BE OF HIGH STRENGTH DUCTILE IRON CONFORMING TO ASTM A536, GRADE 65–45–12. MECH. JOINTS SHALL HAVE A WATER WORKING PRESSURE OF 100 P.S.I. MINIMUM AND SHALL BE EBBA IRON INC., MEG–A–LUG SERIES 1100, FORD METER BOX CO., UNI–FLANGE 1400 OR APPROVED EQUAL.
   B. PVC – RESTRAINT DEVICES SHALL BE MANUFACTURED OF HIGH STRENGTH DUCTILE IRON, ASTM A536,GRADE 65–45–12 IN 2" – 24" SIZES, ASTM A36 IN SIZES 30" – 36". FULL RATED PRESSURE OF THE PVC PIPE AND SHALL BE EBBA IRON INC., MEG–A–LUG SERIES 1100 FORD METER BOX, UNI–FLANGE 1400 OR APPROVED EQUAL.

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PIPE RESTRAINT TABLE

DETAIL PLAN NO. W-18
Sheet 1 of 1

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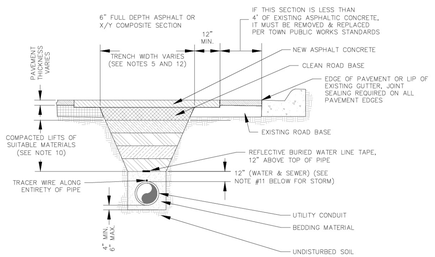
NOTES:

1. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THIS DETAIL UNLESS OTHERWISE SPECIFIED BY PUBLIC WORKS.
2. PRIOR TO PLACEMENT OF CONCRETE, ALL EDGES SHALL BE SAW CUT TO A CLEAN, STRAIGHT, AND VERTICAL EDGE.
3. PRIOR TO PLACEMENT OF ASPHALT, 18 INCHES OF ADJACENT ASPHALT SHALL BE MILLED TO 2 INCH DEPTH ON ALL SIDES TO MATCH EXISTING PAVEMENT. INNER SURFACE TO BE TACKED WITH HISS–1.
4. WHEN SUBSTITUTING FOR BACKFILL MATERIAL, FLOWABLE FILL SHALL CONFORM TO MGFEC CLSM STANDARDS.
5. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE DIAMETER OF THE PIPE.
6. 95% OF ASTM D698 STANDARD COMPACTION EFFORT IS REQUIRED ON ALL TRENCHING ZONES, IN BOTH IMPROVED & UNIMPROVED AREAS.
7. IN UNIMPROVED AREAS, ALL DISTURBED AREAS SHALL BE REGRADED, SEEDED & MULCHED.
8. IN CONCRETE ROADWAYS, A MINIMUM OF 1/2 PANEL WIDTH OR 10' x 5' SECTION WILL BE ALLOWED TO REMAIN, OTHERWISE THE ENTIRE CONCRETE PANEL MUST BE REPLACED.
9. USE #4 REBAR AT 2' CENTERS ALONG THE PERIMETER OF CONCRETE REPLACEMENT SECTIONS.
10. 6" MAXIMUM COMPACTED LIFT THICKNESS IF FLOWABLE FILL NOT REQUIRED.
11. BEDDING MATERIAL DEPTH WHEN INSTALLING STORM SEWER SHALL BE UP TO SPRING LINE, EXCEPT IN AREAS OF UNSUITABLE BACKFILL, THEN BEDDING MATERIAL SHALL BE 12" ABOVE PIPE.
12. TRENCH WIDTHS LESS THAN 4' OR TRENCHING THAT EXPERIENCES CAVE–INS OR SLOUGHING SHALL REQUIRE FLOWABLE FILL IN ORDER TO ACHIEVE COMPACTION.



Sheet Revisions	
Date	Comments
3/18	REVISED PER STAFF COMMENTS
3/20	REVISED PER STAFF COMMENTS

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
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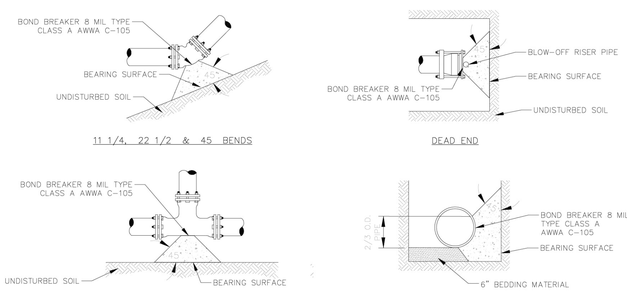
Development Services

WATER TRENCH DETAIL

DETAIL PLAN NO. W-21
Sheet 1 of 1

Issued By: Town of Castle Rock, Development Services January 1, 2023



NOTES:

1. BEARING AREAS SHOWN ON THE CHART ARE MINIMUM AREAS & ARE DESIGNED USING THE FOLLOWING CRITERIA:
   A. INTERNAL WORKING PRESSURE OF 150 PSI.
   B. TRANSIENT (WATER HAMMER) PRESSURE OF 120 PSI FOR 4", 6" & 8" DIAMETER LINES, 110 PSI FOR 12" LINES, & 70 PSI FOR 20" LINES.
   C. THRUSTBLOCK CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
2. ALL SIZES OF BENDS, TEES & DEAD ENDS SHALL HAVE CONCRETE THRUSTBLOCKS.
3. THRUSTBLOCKS ARE NOT A SUBSTITUTE FOR JOINT RESTRAINT.

MINIMUM BEARING SURFACE AREA

(IN SQUARE FEET)

SIZE OF PIPE	BENDS 11 1/4°	22 1/2°	45°	90°	TEE OR DEAD END
6"	2.00	2.00	2.25	4.25	3.00
8"	2.00	2.00	4.00	5.50	5.25
12"	2.00	4.25	8.25	12.00	11.00
16"	3.50	6.50	12.50	23.00	16.50
20"	5.00	10.00	18.50	35.50	25.50

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6/22	REVISED PER STAFF COMMENTS

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HORIZONTAL BEND THRUSTBLOCKS

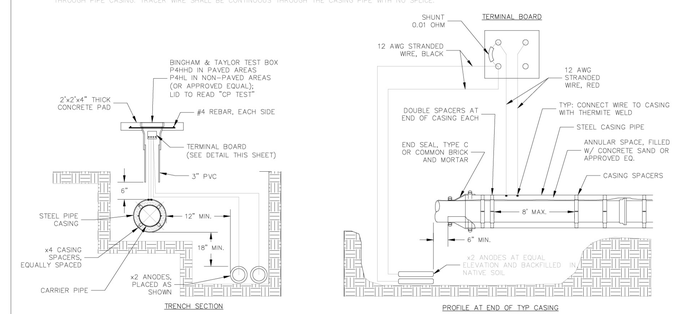
DETAIL PLAN NO. W-22
Sheet 1 of 1

Issued By: Town of Castle Rock, Development Services January 1, 2023

NOTES:

1. MINIMUM ID OF CASING PIPE SHALL ACCOMMODATE MAXIMUM OD OF CARRIER PIPE JOINTS AND/OR RESTRAINTS.
2. MINIMUM CASING PIPE DIAMETER AND THICKNESS SHALL BE PER TABLE UNLESS SPECIFIED BY ENGINEER.
3. IF CARRIER PIPE RESTRAINT IS REQUIRED, RESTRAINED CASING SPACERS SHALL BE USED (E.G. FORD).
4. ANODES SHALL BE "ULTRAMAG HIGH POTENTIAL MAGNESIUM", MINIMUM 46 LBS EACH, PACKAGED READY FOR BURIAL; MODEL NO. 1703, OR APPROVED EQUAL.
5. 24" OF SURPLUS WIRE SHALL BE LEFT AT ALL CONNECTIONS.
6. TERMINAL BOARD SHALL HAVE x4 TERMINALS.
7. TRACER WIRE SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD NOTES AND DETAILS, AND SHALL BE DIRECTED THROUGH PIPE CASING. TRACER WIRE SHALL BE CONTINUOUS THROUGH THE CASING PIPE WITH NO SPLICE.

CARRIER PIPE DIA. (IN)	CASING PIPE DIA. (IN)	CASING PIPE THICKNESS (IN)	NO. OF SPACERS PER 20 FT. LENGTH
4	12	0.188	3
6	16	0.250	3
8	18	0.282	3
12	22	0.344	3
16	28	0.406	3
20	32	0.469	3
24	36	0.562	3



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PIPE CASING

DETAIL PLAN NO. W-25

Issued By: Town of Castle Rock, Development Services January 1, 2023

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
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ENGLEWOOD, CO 80113
303.703.4444
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ENERGY
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1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
WATER DETAILS (1 OF 3)

WESTSIDE

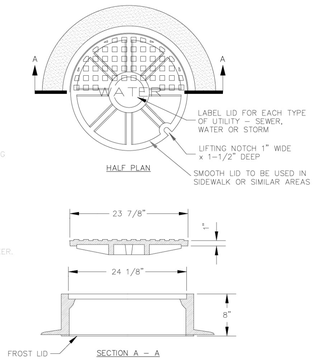
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 62 OF 70

WATER DETAILS.dwg

2025-10-01 (6:45 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs



NOTES:

1. CASTING SPECIFICATIONS: ASTM A-48 WITH A MINIMUM TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1706 RING AND COVER OR EQUIVALENT).
2. H-20 DESIGN LOAD RATING IS REQUIRED.
3. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE WITHIN DRAINAGE WAYS.
4. STANDARD MANUFACTURER'S LETTERING SIZES & PATTERNS. (LETTERING SHALL BE CAST AS PART OF COVER).
5. MANHOLES PLACED OUTSIDE OF ROW MUST HAVE CARSONITE MARKER.

Sheet Revisions	
Date	Comments
3/19	REVISED PER STAFF COMMENTS
3/20	REVISED PER STAFF COMMENTS
8/22	REVISED PER STAFF COMMENTS

Town of Castle Rock
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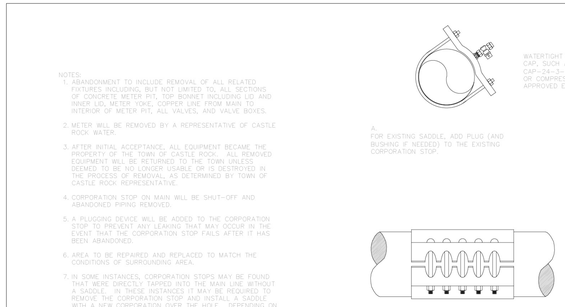
WATER MANHOLE 24 INCH RING & COVER

DETAIL PLAN NO. W-26

Sheet 1 of 1

Issued By: Town of Castle Rock, Development Services January 1, 2022



NOTES:

1. ABANDONMENT TO INCLUDE REMOVAL OF ALL RELATED FIXTURES INCLUDING, BUT NOT LIMITED TO, ALL SECTIONS OF CONCRETE METER PIT, TOP BONNET INCLUDING LID AND INNER LID, METER YOKE, COPPER LINE FROM MAIN TO INTERIOR OF METER PIT, ALL VALVES, AND VALVE BOXES.
2. METER WILL BE REMOVED BY A REPRESENTATIVE OF CASTLE ROCK WATER.
3. AFTER INITIAL ACCEPTANCE, ALL EQUIPMENT BECAME THE PROPERTY OF THE TOWN OF CASTLE ROCK. ALL REMOVED EQUIPMENT WILL BE RETURNED TO THE TOWN UNLESS DEEMED TO BE NO LONGER USABLE OR IS DESTROYED IN THE PROCESS OF REMOVAL, AS DETERMINED BY TOWN OF CASTLE ROCK REPRESENTATIVE.
4. CORPORATION STOP ON MAIN WILL BE SHUT-OFF AND ABANDONED PIPING REMOVED.
5. A PLUGGING DEVICE WILL BE ADDED TO THE CORPORATION STOP TO PREVENT ANY LEAKING THAT MAY OCCUR IN THE EVENT THAT THE CORPORATION STOP FAILS AFTER IT HAS BEEN ABANDONED.
6. AREA TO BE REPAIRED AND REPLACED TO MATCH THE CONDITIONS OF SURROUNDING AREA.
7. IN SOME INSTANCES, CORPORATION STOPS MAY BE FOUND THAT WERE DIRECTLY TAPPED INTO THE MAIN LINE WITHOUT A SADDLE. IN THESE INSTANCES IT MAY BE REQUIRED TO REMOVE THE CORPORATION STOP AND INSTALL A SADDLE WITH A NEW CORPORATION OVER THE HOLE. DEPENDING ON THE INTEGRITY OF THE EXISTING MAIN, A STAINLESS REPAIR CLAMP MAY BE REQUIRED IN PLACE OF A SADDLE, AT DISCRETION OF THE TOWN REPRESENTATIVE.
8. CROSS CONNECTION CONTROL TECHNICIAN FOR THE TOWN SHALL BE NOTIFIED OF ANY SERIAL NUMBERS OF BACK FLOW PREVENTION DEVICES REMOVED FROM SERVICE.
9. ABANDONMENT REQUEST LETTER MUST BE SUBMITTED TO CASTLE ROCK WATER BILLING TO DISCONTINUE ACCOUNT.

Sheet Revisions	
Date	Comments
3/19	REVISED PER STAFF COMMENTS
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12/21	REVISED PER STAFF COMMENTS

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WATER SERVICE LINE ABANDONMENT DETAIL

DETAIL PLAN NO. W-27

Sheet 1 of 1

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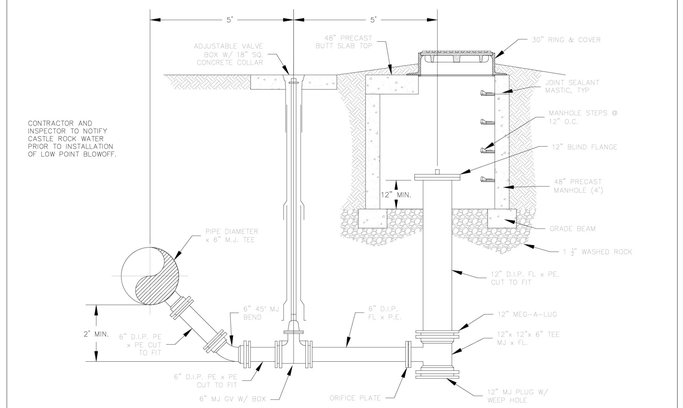

Sheet Revisions	
Date	Comments
3/19	NEW DETAIL
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LOW POINT BLOWOFF

DETAIL PLAN NO. W-41

Sheet 1 of 1

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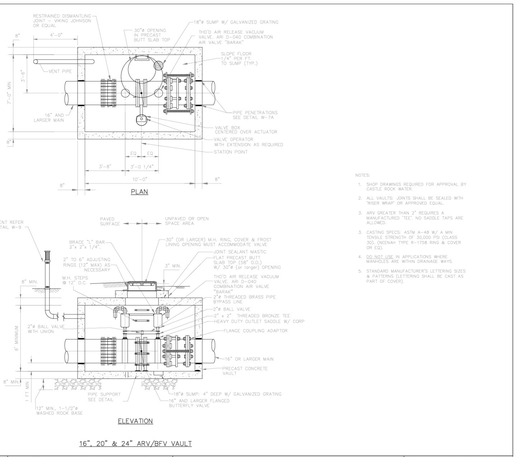

16", 20" & 24" ARV/BFV VAULT

NOTES:

1. SHOP DRAWINGS REQUIRED FOR APPROVAL BY CASTLE ROCK WATER.
2. ALL HALTON JOINTS SHALL BE SEALED WITH "RISER WRAP" OR APPROVED EQUAL.
3. ARV GREATER THAN 2" REQUIRES A MANUFACTURED "TEE" NO SADDLE TAPS ARE ALLOWED.
4. CASTING SPECS: ASTM A-48 W/ A MIN TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1706 RING & COVER OR EQ).
5. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE WITHIN DRAINAGE WAYS.
6. STANDARD MANUFACTURER'S LETTERING SIZES & PATTERNS (LETTERING SHALL BE CAST AS PART OF COVER).

Sheet Revisions	
Date	Comments
8/13	REVISED PER STAFF COMMENTS
3/19	REVISED PER STAFF COMMENTS
3/20	REVISED PER STAFF COMMENTS
3/21	REVISED PER STAFF COMMENTS

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AIR RELEASE & BUTTERFLY VALVES & VAULT

DETAIL PLAN NO. W-42

Sheet 1 of 1

Issued By: Town of Castle Rock, Development Services January 1, 2023

NOTES:

1. ALL HYDRANTS SHALL BE PAINTED "SAFETY YELLOW" FROM THE FACTORY. FIELD RE-PAINTING MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR.
2. THE CONNECTIONS SHALL BE 2 TO 2 ½" NOZZLES AND 1 TO 5 ¼" PUMPER NOZZLE, ALL THREADS TO BE NATIONAL STANDARD W/ 1 ½" PENTAGONAL CAP NUTS. ALL HYDRANTS SHALL BE AWWA C-502-94 STANDARD OPEN LEFT.
3. NO TAPS SHALL BE ALLOWED BETWEEN THE HYDRANT & THE MAIN.
4. THE ENTIRE FIRE HYDRANT ASSEMBLY SHALL BE WRAPPED W/ 8 MIL POLYETHYLENE, INCLUDING THE RISER PORTION, TO FINISHED GRADE. CUT HOLE IN WRAP AT WEEP HOLE.
5. ALL FIRE HYDRANTS SHALL BE INSTALLED PLUMB & LOCATED ACCORDING TO PROJECT PLANS.
6. SEE FIRE HYDRANT LOCATION DETAILS W-13 & W-14 FOR PROPER LOCATION RELATIVE TO OTHER IMPROVEMENTS & REFER TO APPROVED PLANS.
7. THE MECHANICAL JOINTS OF THE FIRE HYDRANT ASSEMBLY SHALL BE RESTRAINED VIA MEG-A-LUG JOINT CLAMPS.
8. NO MORE THAN ONE HYDRANT EXTENSION, NOT TO EXCEED 24" MAY BE USED. OVERALL HEIGHT MAY NOT EXCEED 8'.
9. A TRACER WIRE TEST STATION IS REQUIRED FOR ALL FIRE HYDRANTS; REFER TO DETAIL W-28.

Sheet Revisions	
Date	Comments
3/19	NEW DETAIL
3/20	NEW DETAIL
4/22	REVISED PER STAFF COMMENTS

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Castle Rock, CO 80104
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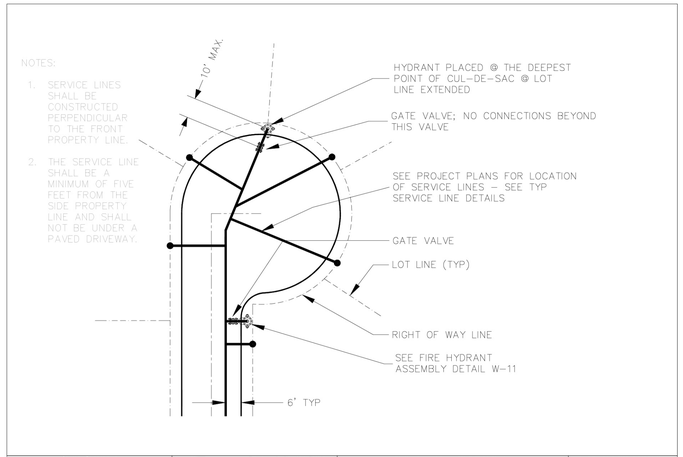
DEEP BURY FIRE HYDRANT ASSEMBLY

DETAIL PLAN NO. W-11A

Sheet 1 of 1

Issued By: Town of Castle Rock, Development Services January 1, 2023



NOTES:

1. SERVICE LINES SHALL BE CONSTRUCTED PERPENDICULAR TO THE FRONT PROPERTY LINE.
2. THE SERVICE LINE SHALL BE A MINIMUM OF FIVE FEET FROM THE SIDE PROPERTY LINE AND SHALL NOT BE UNDER A PAVED DRIVEWAY.

Sheet Revisions	
Date	Comments
3/19	REVISED PER STAFF COMMENTS
3/20	REVISED PER STAFF COMMENTS
12/21	REVISED PER STAFF COMMENTS

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WATER SYSTEM IN CUL-DE-SACS

DETAIL PLAN NO. W-14

Sheet 1 of 1

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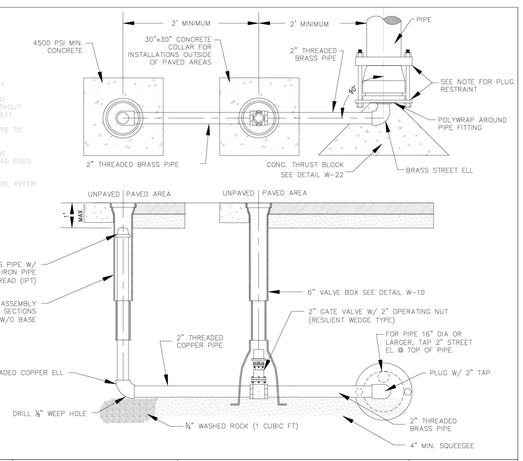

NOTES:

1. PLUG SHALL BE MECHANICALLY RESTRAINED:
   A. FOR SLEEVE TYPE MACHINED COUPLING PIPE OR PIPE WITHOUT BELL, ROD BACK TO THE NEXT COUPLING UPSTREAM.
   B. FOR BELL & SPIGOT PIPE, TIE TO BELL (SHOWN).
2. BLOW OFF ASSEMBLY SHALL BE INSTALLED AT TEMPORARY DEAD ENDS ONLY.
3. FOR TRACER WIRE INSTALLATION, REFER TO DETAIL W-28.

Sheet Revisions	
Date	Comments
3/19	REVISED PER STAFF COMMENTS
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TEMPORARY BLOW-OFF ASSEMBLY

DETAIL PLAN NO. W-16

Sheet 1 of 1

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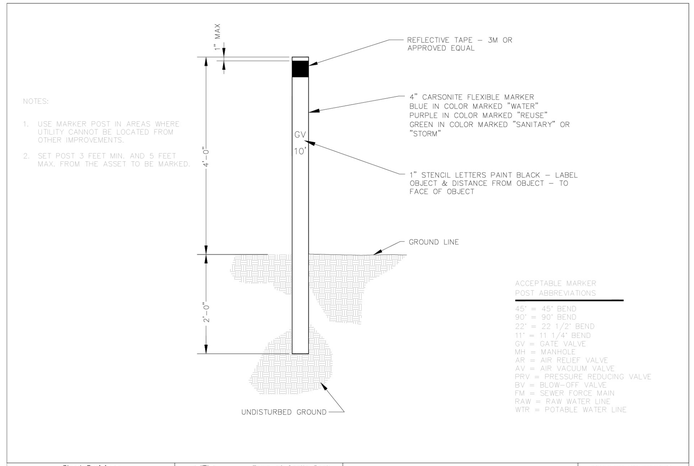

NOTES:

1. USE MARKER POST IN AREAS WHERE UTILITY CANNOT BE LOCATED FROM OTHER IMPROVEMENTS.
2. SET POST 3 FEET MIN. AND 5 FEET MAX. FROM THE ASSET TO BE MARKED.

ACCEPTABLE MARKER POST ABBREVIATIONS

11.25° = 45° BEND	
90° = 90° BEND	
22° = 22 1/2° BEND	
11° = 11 1/4° BEND	
GV = GATE VALVE	
MH = MANHOLE	
AR = AIR RELIEF VALVE	
AV = AIR VACUUM VALVE	
PRV = PRESSURE REDUCING VALVE	
BV = BLOW-OFF VALVE	
FM = SEWER FORCE MAIN	
RAW = RAW WATER LINE	
WTR = POTABLE WATER LINE	

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3/19	REVISED PER STAFF COMMENTS
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7/22	REVISED PER STAFF COMMENTS

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MARKER POST

DETAIL PLAN NO. W-23

Sheet 1 of 1

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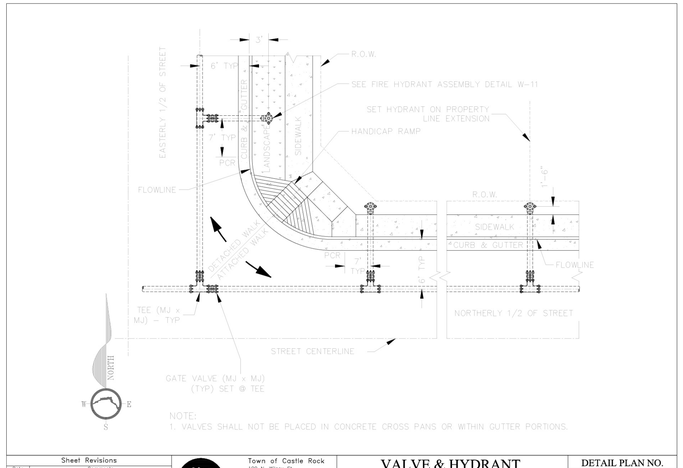

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VALVE & HYDRANT LOCATIONS

DETAIL PLAN NO. W-13

Issued By: Town of Castle Rock, Development

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

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2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)

CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
WATER DETAILS (2 OF 3)

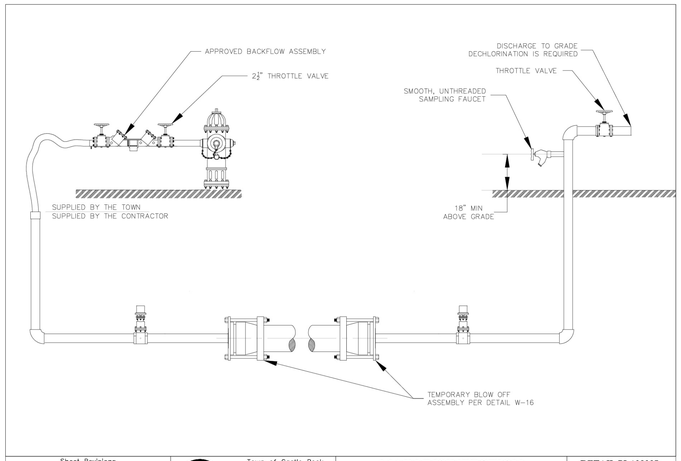
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 63 OF 70

2025-10-01 (6:45 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs WATER DETAILS.dwg



Sheet Revisions	
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8/16	NEW DETAIL
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3/20	REVISED PER STAFF COMMENTS

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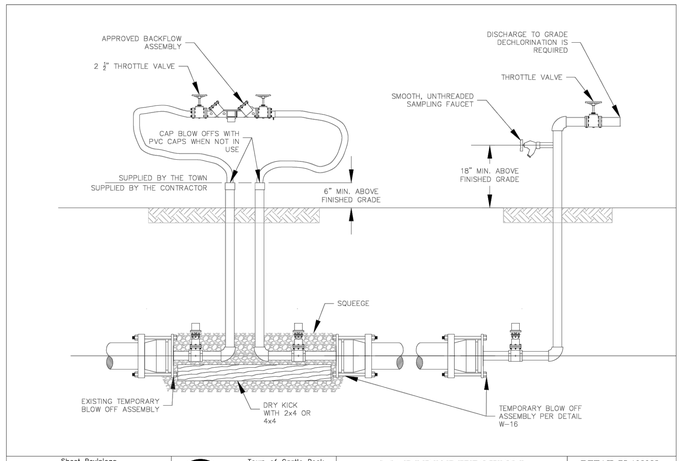
MAIN DISINFECTION
UP TO 12"

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
W-35A
Sheet 1 of 1



Sheet Revisions	
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8/16	NEW DETAIL
5/19	REVISED PER STAFF COMMENTS
3/20	REVISED PER STAFF COMMENTS

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MAIN DISINFECTION
UP TO 12"

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
W-35B
Sheet 1 of 1

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
WATER DETAILS (3 OF 3)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

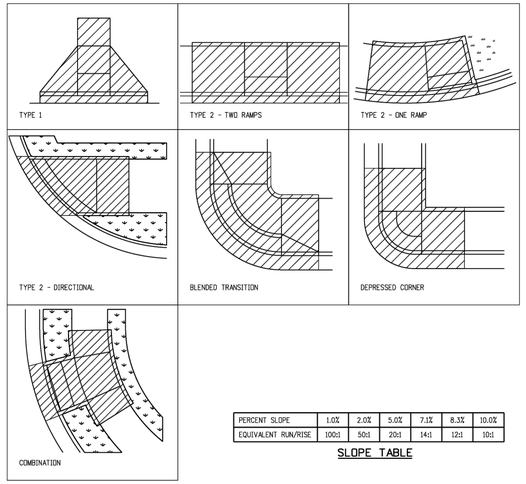
SHEET
64 OF 70

2025-10-01 (6:45 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs WATER DETAILS.dwg

CURB RAMP GENERAL NOTES:

1. IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION, PROVIDE A SEPARATE CURB RAMP FOR EACH MARKED OR UNMARKED PEDESTRIAN STREET CROSSING. CURB RAMPS SHALL BE CONTAINED WHOLLY WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING OR CROSSWALK THEY SERVE, OR AS SHOWN ON THE CONTRACT PLANS.
2. ALTERATIONS ARE DEFINED AS CHANGES TO AN EXISTING HIGHWAY THAT AFFECT PEDESTRIAN ACCESS, CIRCULATION, OR USE. ALTERATIONS INCLUDE, BUT ARE NOT LIMITED TO, RESURFACING, REHABILITATION, RECONSTRUCTION, CURB RAMP RETROFITS, HISTORIC RESTORATION, OR CHANGES OR REARRANGEMENT TO STRUCTURAL PARTS OR ELEMENTS OF A PEDESTRIAN FACILITY.
3. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP OR TURNING SPACE, WITHOUT RAISED OBSTACLES, THAT COULD BE MISTAKENLY TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
4. IN ALTERATIONS, WHERE AN EXISTING PHYSICAL CONSTRAINT PREVENTS PROVIDING A SEPARATE CURB RAMP FOR EACH PEDESTRIAN STREET CROSSING, A SINGLE DIAGONAL RAMP (ON THE APEX) SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS. THE USE OF A SINGLE DIAGONAL RAMP SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. DIAGONAL RAMPS ARE NOT ACCEPTABLE IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION.
5. DETECTABLE WARNINGS SURFACES (DWS) ARE INTENDED TO INDICATE THE BOUNDARY BETWEEN A PEDESTRIAN ROUTE AND VEHICULAR ROUTE WHERE THERE IS A FLUSH RATHER THAN CURBED CONNECTION. DWS ARE NOT INTENDED TO PROVIDE WAYFINDING. DWS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS;
   1. CURB RAMPS, BLENDED TRANSITIONS, AND DEPRESSED CORNERS AT PEDESTRIAN STREET CROSSINGS;
   2. PEDESTRIAN REFUGE ISLANDS (8 FEET IN WIDTH OR GREATER);
   3. BOARDING PLATFORMS AT TRANSIT STOPS WHERE THE EDGE OF THE PLATFORM IS NOT PROTECTED TO PEDESTRIAN CROSS TRAFFIC; AND
   4. BOARDING AREAS AT SIDEWALK OR STREET LEVEL TRANSIT STOPS WHERE THE AREA IS NOT PROTECTED TO PEDESTRIAN CROSS TRAFFIC.
6. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT GUTTER, HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. FEDERAL YELLOW COLOR IS PREFERRED, HOWEVER, OTHER COLORS MAY BE USED IF APPROVED BY THE ENGINEER.
7. IN ALTERATIONS, TO AVOID CHASING GRADE INDEFINITELY ON STEEP ROADWAYS, A CURB RAMPS LENGTH IS NOT REQUIRED TO EXCEED 15 FEET REGARDLESS OF THE RESULTING RAMP RUNNING SLOPE.
8. ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE.
9. DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, OR OTHER OBSTRUCTIONS SHALL NOT BE INSTALLED ON THE CURB RAMP, OR TURNING SPACE AREAS.
10. IN NEW CONSTRUCTION, PULL BOXES, METER BOXES, MAINTENANCE HOLE COVERS, VAULT LIDS, OR SIMILAR, SHALL NOT BE CONSTRUCTED WITHIN ANY PART OF CURB RAMP OR TURNING SPACE. IN ALTERATIONS, WHERE THESE ITEMS CANNOT BE RELOCATED OUTSIDE OF THE CURB RAMP OR TURNING SPACE, THEY MUST NOT CREATE A VERTICAL DISCONTINUITY GREATER THAN 1/2 INCH. ANY VERTICAL DISCONTINUITY BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1V:2H. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE SURFACE DISCONTINUITY.
11. CONSTRUCTION OF ANY REQUIRED PEDESTRIAN CURB SHALL BE INCLUDED IN THE BID PRICE OF THE CONCRETE CURB RAMP AND WILL NOT BE PAID FOR SEPARATELY.
12. ALL CURB RAMP JOINTS AND GRADE BREAKS SHALL BE FLUSH (0"-1/8"). THE JOINT BETWEEN THE ROADWAY SURFACE AND THE GUTTER PAN SHALL BE FLUSH.
13. THE CONTRACTOR SHALL VERIFY REMOVAL LIMITS ARE SUFFICIENT TO PROVIDE POSITIVE DRAINAGE, MAINTAIN EXISTING DRAINAGE PATTERNS, AND AVOID PONDING IN THE FINAL CONFIGURATION.
14. FLARED SIDE SLOPES MAY EXCEED 10.0% ONLY WHERE THEY ABUT A NON-WALKABLE SURFACE, OR WHERE THE ADJACENT RAMP SURFACE IS BLOCKED TO PEDESTRIAN TRAFFIC.
15. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 13.33%. THE COUNTER SLOPE OF THE GUTTER AT THE FOOT OF A RAMP, TURNING SPACE, OR BLENDED TRANSITION SHALL NOT EXCEED 5.0%.
16. GRADE BREAKS AT THE TOP AND BOTTOM OF RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF THE RAMP RUN OR TURNING SPACE. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
17. A BROOM FINISH, WITH SWEEPS PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAFFIC, SHALL BE APPLIED TO ALL RAMP AND TURNING SPACE SURFACES.
18. IN ALTERATIONS, WHERE A RAMP OR TURNING SPACE MUST TIE INTO AN EXISTING GRADE THAT CANNOT BE ALTERED, THE RAMP OR TURNING SPACE MAY BE WARPED TO TRANSITION TO THE REQUIRED CROSS SLOPE. THE TRANSITION TO THE REQUIRED CROSS SLOPE SHALL BE SPREAD EVENLY OVER THE LENGTH OF THE RAMP OR TURNING SPACE TO MINIMIZE THE DEGREE OF WARPING. THE RATE OF CHANGE ON A RAMP OR TURNING SPACE SHALL NOT EXCEED 3% PER LINEAR FOOT.
19. DESIGN AND CONSTRUCT CURB RAMPS, TURNING SPACES, AND FLARE SLOPES WITH THE FLATTEST SLOPES POSSIBLE. THE SLOPES INDICATED IN THESE DETAILS SHOW THE MAXIMUM SLOPES ALLOWABLE. PREFERRED VALUES TO BE USED DURING DESIGN, LAYOUT, AND CONSTRUCTION ARE:
   - RAMP RUNNING SLOPE 7.5%
   - RAMP CROSS SLOPE 1.5%
   - TURNING SPACE RUNNING SLOPE 1.5%
   - TURNING SPACE CROSS SLOPE 1.5%
   - FLARE SLOPE 8.0-9.0%
20. WHERE SNOW REMOVAL EQUIPMENT WILL BE USED TO CLEAR THE PEDESTRIAN ACCESS ROUTE, CONSULT THE ENGINEER PRIOR TO CONSTRUCTION TO ENSURE THE WIDTH AND THICKNESS OF CURB RAMPS IS SUFFICIENT TO ACCOMODATE SUCH EQUIPMENT.
21. PROVIDE EXPANSION JOINT MATERIAL 1/2" THICK WHERE CURB RAMPS ADJOIN ANY RIGID PAVEMENT, OR STRUCTURE. THE TOP OF THE JOINT FILLER MATERIAL SHALL BE FLUSH WITH ADJOINING CONCRETE SURFACES. THE EXPANSION JOINT MATERIAL SHALL EXTEND FOR THE FULL DEPTH OF THE CONCRETE SURFACE.
22. PROVIDE TIE BAR REINFORCING BETWEEN INDEPENDENTLY POURED CONCRETE CURB RAMPS OR TURNING SPACES AND CURB AND GUTTER. DRILL AND GROUT NO. 4 12 INCH LONG REINFORCEMENT BARS (EPOXY COATED) AT 18 INCHES CENTER TO CENTER MINIMUM.

CURB RAMP PAY AREAS



PERCENT SLOPE	1.0%	2.0%	5.0%	7.1%	8.3%	10.0%
EQUIVALENT RUN/RISE	100:1	50:1	20:1	14:1	12:1	10:1

SLOPE TABLE

GENERAL NOTES & PAY AREAS

Computer File Information		Sheet Revisions	
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Detailer Initials: LTA	(R-X)		
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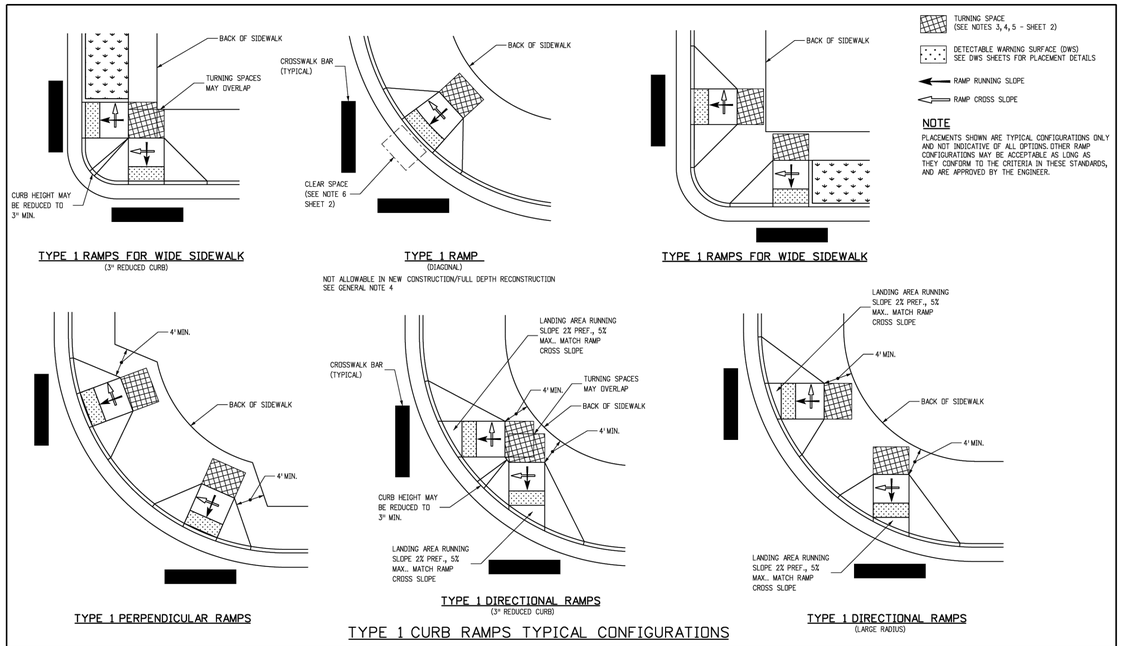
CURB RAMPS

STANDARD PLAN NO.
M-608-1
Standard Sheet No. 1 of 10

Issued by the Project Development Branch: July 31, 2019

Project Sheet Number:



TYPE 1 RAMPS FOR WIDE SIDEWALK
(3" REDUCED CURB)

TYPE 1 RAMP
(DIAGONAL)
NOT ALLOWABLE IN NEW CONSTRUCTION/FULL DEPTH RECONSTRUCTION
SEE GENERAL NOTE 4

TYPE 1 RAMPS FOR WIDE SIDEWALK

NOTE
PLACEMENTS SHOWN ARE TYPICAL CONFIGURATIONS ONLY AND NOT INDICATIVE OF ALL OPTIONS. OTHER RAMP CONFIGURATIONS MAY BE ACCEPTABLE AS LONG AS THEY CONFORM TO THE CRITERIA IN THESE STANDARDS, AND ARE APPROVED BY THE ENGINEER.

TYPE 1 PERPENDICULAR RAMPS

TYPE 1 DIRECTIONAL RAMPS
(3" REDUCED CURB)

TYPE 1 DIRECTIONAL RAMPS
(LARGE RADIUS)

TYPE 1 CURB RAMPS TYPICAL CONFIGURATIONS

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CURB RAMPS

STANDARD PLAN NO.
M-608-1
Standard Sheet No. 3 of 10

Issued by the Project Development Branch: July 31, 2019

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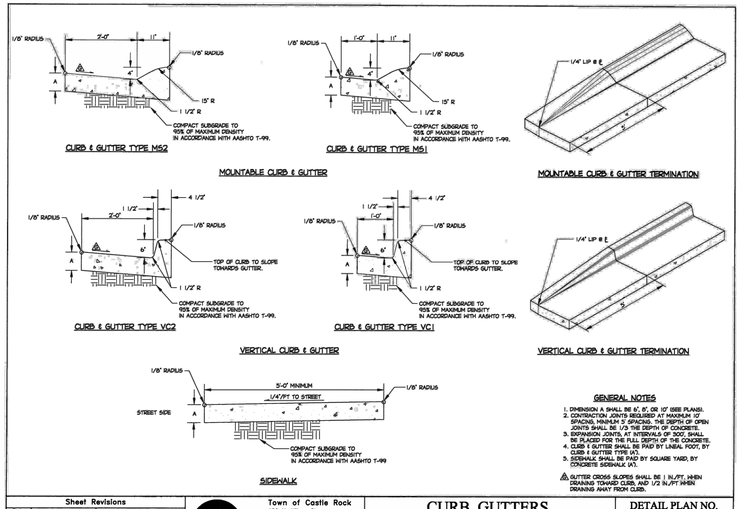

GENERAL NOTES
1. DIMENSION A SHALL BE 6', 8', OR 10' (SEE PLANS).
2. CONTRACTION JOINTS REQUIRED AT MAXIMUM 10' SPACING, MINIMUM 5' SPACING. THE DEPTH OF OPEN JOINTS SHALL BE 1/3 THE DEPTH OF CONCRETE.
3. EXPANSION JOINTS, AT INTERVALS OF 300', SHALL BE PLACED FOR THE FULL DEPTH OF THE CONCRETE.
4. CURB & GUTTER SHALL BE PAID BY LINEAL FOOT, BY CURB & GUTTER TYPE (#).
5. SIDEWALK SHALL BE PAID BY SQUARE YARD, BY CONCRETE SIDEWALK (X").

⚠ GUTTER CROSS SLOPES SHALL BE 1 IN./FT. MIN. DRAINING TOWARD CURB, AND 1/2 IN./FT. MIN. DRAINING AWAY FROM CURB.

Sheet Revisions	
Date	Comments

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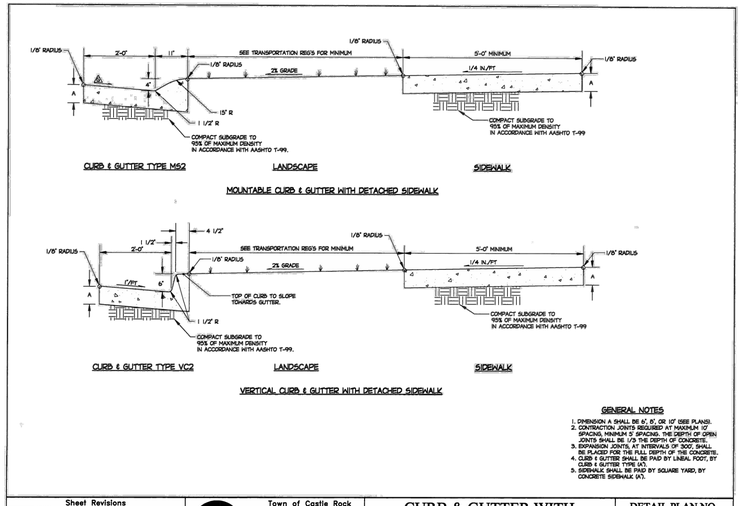
Development Services

CURB, GUTTERS, AND SIDEWALK

Issued By: Town of Castle Rock, Development Services March 31, 2010

DETAIL PLAN NO.
CG-1
Sheet 1 of 1



GENERAL NOTES
1. DIMENSION A SHALL BE 6', 8', OR 10' (SEE PLANS).
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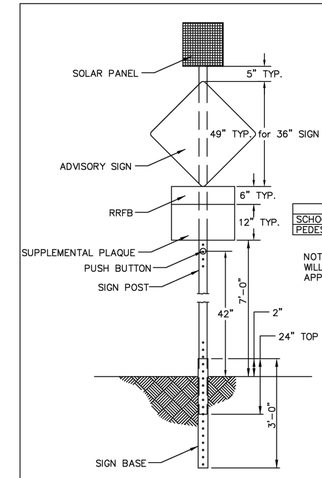
CURB & GUTTER WITH DETACHED SIDEWALK

Issued By: Town of Castle Rock, Development Services March 31, 2010

DETAIL PLAN NO.
CG-3
Sheet 1 of 1



SIGN PANEL: SIGN SHAPE AND SIZES, LEGEND AND REFLECTORIZATION SHALL BE IN CONFORMANCE WITH THE MUTCD, LATEST EDITION. ATTACH THE SIGN PANELS TIGHTLY TO THE POST USING BOLTS, NOT RIVETS, AND USE OVERSIZED WASHERS TO KEEP THE SIGN FROM BREAKING LOOSE FROM THE POST WHEN A VEHICLE HITS IT.

BREAKAWAY DEVICES: SLEEVE ASSEMBLIES LIKE THE ONE SHOWN HERE WILL INCREASE THE SAFETY OF A SIGN WHEN IT IS DAMAGED AND MAKE IT EASIER TO REPAIR. AFTER THE SIGN HAS BEEN DAMAGED, THE BROKEN STUB OF THE POST CAN BE REMOVED FROM THE BASE AND A NEW POST INSTALLED.

VINYL APPLICATIONS *

SIGN TYPE	MATERIALS
SCHOOL CROSSING	DG3 YELLOW/GREEN
PEDESTRIAN CROSSING	DG3 YELLOW/GREEN

NOTE: ENGINEER GRADE AND HI INTENSITY WILL NO LONGER BE USED UNLESS PRIOR APPROVAL FROM SUPERVISOR IS OBTAINED.

* ALL SHEETING MUST CONFORM TO THE CURRENT MUTCD EDITION REQUIREMENTS FOR RETRO-REFLECTIVITY LEVELS. THE TABLE AT THE LEFT IS THE MINIMUM STANDARD UNLESS FOUND TO BE NONCOMPLIANT WITH THE LATEST MUTCD REQUIREMENTS.

WHEN A SIGN BASE FALLS WITHIN A HARDSCAPE AREA, A 6" PVC SLEEVE SHALL BE INSTALLED AT THE SIGN LOCATION PRIOR TO PLACEMENT OF THE CONCRETE. SIGN BASES WILL NOT BE ALLOWED TO BE CONCRETED IN WITHOUT A PVC SLEEVE.

SIGN POSTS SHALL BE 2" X 2", SIGN BASES SHALL BE 2.25" X 2.25"

SIGN POSTS AND BASES SHALL BE STEEL PERFORATED SQUARE TUBING AS SUPPLIED BY UNISTRUT, OR APPROVED EQUIVALENT.

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RRFB SIGN POST & BASE DETAIL

Issued By: Town of Castle Rock, Development Services March 31, 2010

DETAIL PLAN NO.
ST-3
Sheet 1 of 1

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
ROADWAY DETAILS (1 OF 2)

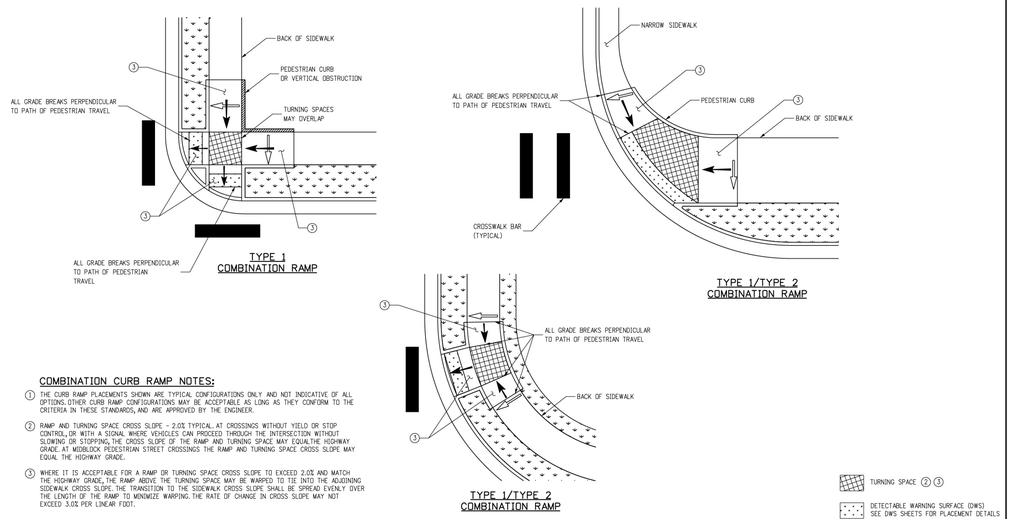
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 65 OF 70

2025-10-01 (6:46 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs ROADWAY DETAILS.dwg



COMBINATION CURB RAMP NOTES:

1. THE CURB RAMP PLACEMENTS SHOWN ARE TYPICAL CONFIGURATIONS ONLY AND NOT INDICATIVE OF ALL OPTIONS. OTHER CURB RAMP CONFIGURATIONS MAY BE ACCEPTABLE AS LONG AS THEY CONFORM TO THE CRITERIA IN THESE STANDARDS, AND ARE APPROVED BY THE ENGINEER.
2. RAMP AND TURNING SPACE CROSS SLOPE < 2.0% TYPICAL. AT CROSSINGS WITHOUT YIELD OR STOP CONTROL, OR WITH A SIGNAL WHERE VEHICLES CAN PROCEED THROUGH THE INTERSECTION WITHOUT SLOWING OR STOPPING, THE CROSS SLOPE OF THE RAMP AND TURNING SPACE MAY EQUAL THE HIGHWAY GRADE. AT MIDBLOCK PEDESTRIAN STREET CROSSINGS THE RAMP AND TURNING SPACE CROSS SLOPE MAY EQUAL THE HIGHWAY GRADE.
3. WHERE IT IS ACCEPTABLE FOR A RAMP OR TURNING SPACE CROSS SLOPE TO EXCEED 2.0% AND MATCH THE HIGHWAY GRADE, THE RAMP ABOVE THE TURNING SPACE MAY BE WARPED TO TIE INTO THE ADJOINING SIDEWALK CROSS SLOPE. THE TRANSITION TO THE SIDEWALK CROSS SLOPE SHALL BE SPREAD EVENLY OVER THE LENGTH OF THE RAMP TO MINIMIZE WARPING. THE RATE OF CHANGE IN CROSS SLOPE MAY NOT EXCEED 3.0% PER LINEAR FOOT.

COMBINATION CURB RAMPS TYPICAL CONFIGURATIONS

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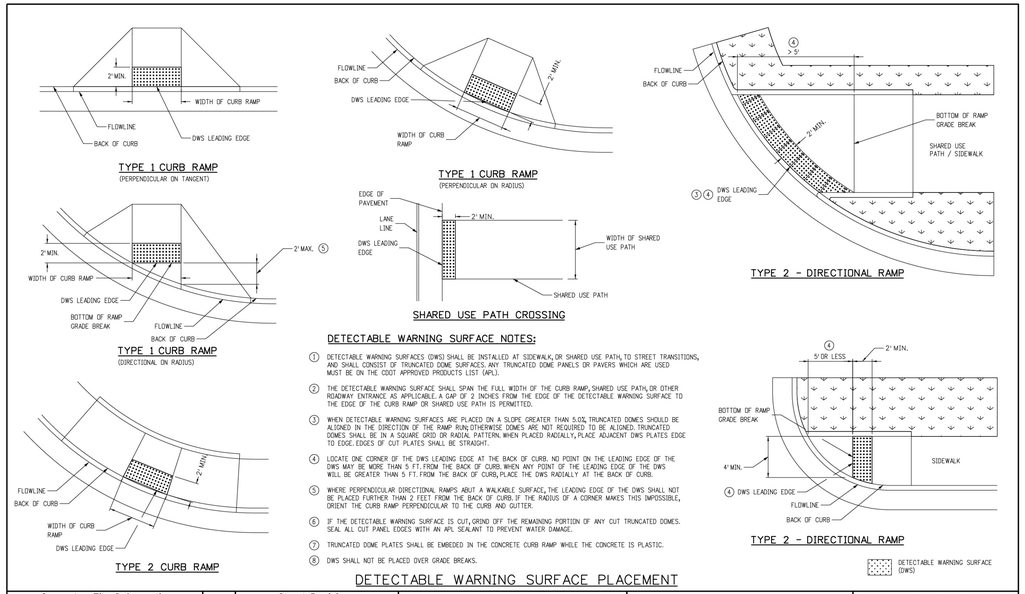
CURB RAMPS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-608-1
Standard Sheet No. 6 of 10
Project Sheet Number:



DETECTABLE WARNING SURFACE NOTES:

1. DETECTABLE WARNING SURFACES (DWS) SHALL BE INSTALLED AT SIDEWALK, OR SHARED USE PATH, TO STREET TRANSITIONS, AND SHALL CONSIST OF TRUNCATED DOME SURFACES. ANY TRUNCATED DOME PANELS OR PAVERS WHICH ARE USED MUST BE ON THE CDOT APPROVED PRODUCTS LIST (APL).
2. THE DETECTABLE WARNING SURFACE SHALL SPAN THE FULL WIDTH OF THE CURB RAMP, SHARED USE PATH, OR OTHER ROADWAY ENTRANCE AS APPLICABLE. A GAP OF 2 INCHES FROM THE EDGE OF THE DETECTABLE WARNING SURFACE TO THE EDGE OF THE CURB RAMP OR SHARED USE PATH IS PERMITTED.
3. WHEN DETECTABLE WARNING SURFACES ARE PLACED ON A SLOPE GREATER THAN 5.0%, TRUNCATED DOMES SHOULD BE ALIGNED IN THE DIRECTION OF THE RAMP RUN; OTHERWISE DOMES ARE NOT REQUIRED TO BE ALIGNED. TRUNCATED DOMES SHALL BE IN A SQUARE GRID OR RADIAL PATTERN. WHEN PLACED RADIALLY, PLACE ADJACENT DWS PLATES EDGE TO EDGE. EDGES OF CUT PLATES SHALL BE STRAIGHT.
4. LOCATE ONE CORNER OF THE DWS LEADING EDGE AT THE BACK OF CURB. NO POINT ON THE LEADING EDGE OF THE DWS MAY BE MORE THAN 5 FT. FROM THE BACK OF CURB. WHEN ANY POINT OF THE LEADING EDGE OF THE DWS WILL BE GREATER THAN 5 FT. FROM THE BACK OF CURB, PLACE THE DWS RADIALLY AT THE BACK OF CURB.
5. WHERE PERPENDICULAR DIRECTIONAL RAMPS ABUT A WALKABLE SURFACE, THE LEADING EDGE OF THE DWS SHALL NOT BE PLACED FURTHER THAN 2 FEET FROM THE BACK OF CURB. IF THE RADIUS OF A CORNER MAKES THIS IMPOSSIBLE, ORIENT THE CURB RAMP PERPENDICULAR TO THE CURB AND GUTTER.
6. IF THE DETECTABLE WARNING SURFACE IS CUT, GRIND OFF THE REMAINING PORTION OF ANY CUT TRUNCATED DOMES. SEAL ALL CUT PANEL EDGES WITH AN APL SEALANT TO PREVENT WATER DAMAGE.
7. TRUNCATED DOME PLATES SHALL BE EMBEDED IN THE CONCRETE CURB RAMP WHILE THE CONCRETE IS PLASTIC.
8. DWS SHALL NOT BE PLACED OVER GRADE BREAKS.

DETECTABLE WARNING SURFACE PLACEMENT

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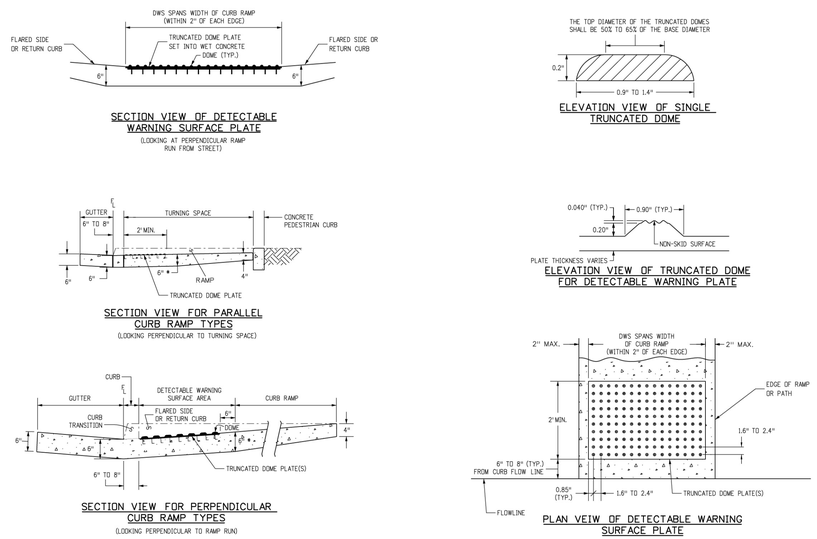
CURB RAMPS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-608-1
Standard Sheet No. 9 of 10
Project Sheet Number:



DETECTABLE WARNING SURFACE DETAILS

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CURB RAMPS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-608-1
Standard Sheet No. 10 of 10
Project Sheet Number:

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
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3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
ROADWAY DETAILS (2 OF 2)

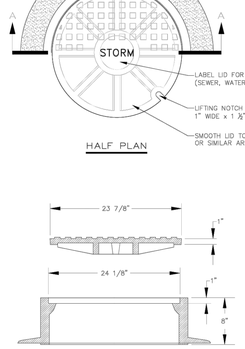
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 66 OF 70

2025-10-01 (6:46 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs ROADWAY DETAILS.dwg



NOTES:
1. CASTING SPECIFICATIONS: ASTM A-48 WITH A MINIMUM TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1706 RING & COVER OR EQUIVALENT).
2. TOTAL MINIMUM WEIGHT APPROXIMATELY 410 LBS.
3. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE WITHIN DRAINAGE WAYS.
4. STANDARD MANUFACTURER'S LETTERING SIZES & PATTERNS. (LETTERING SHALL BE CAST AS PART OF COVER.)
5. MANHOLE OUTSIDE OF R.O.W. MUST HAVE A LOCKING LID AND CARSONITE MARKER.
6. TRACER WIRE REQUIRED FOR ALL SEWER MAINS, LATERALS AND MANHOLES. REFER TO DETAILS SD-5, SS-2, SS-11, AND W-28.

Sheet Revisions	
Date	Comments
3/20	REVISED PER STAFF COMMENTS

Town of Castle Rock COLORADO
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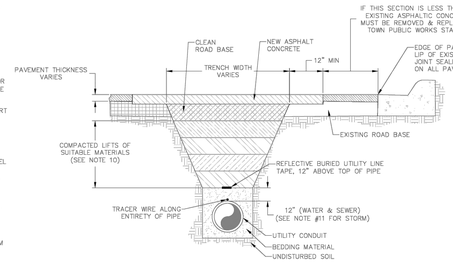
Development Services

STORM SEWER MANHOLE 24" RING & COVER

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-1
Sheet 1 of 1

NOTES:
1. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THIS DETAIL UNLESS OTHERWISE SPECIFIED BY PUBLIC WORKS.
2. PRIOR TO PLACEMENT OF CONCRETE, ALL EDGES SHALL BE SAW CUT TO A CLEAN, STRAIGHT, AND VERTICAL EDGE.
3. PRIOR TO PLACEMENT OF ASPHALT, 18 INCHES OF ADJACENT ASPHALT SHALL BE MILLED TO 2 INCH DEPTH ON ALL SIDES TO MATCH EXISTING PAVEMENT. INNER SURFACE TO BE TACKED WITH HSS-1.
4. WHEN SUBSTITUTING FOR BACKFILL MATERIAL, FLOWABLE FILL SHALL CONFORM TO MSPEC CLSM STANDARDS.
5. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE DIAMETER OF THE PIPE.
6. 95% OF ASTM D698 STANDARD COMPACTION EFFORT IS REQUIRED ON ALL TRENCHING ZONES, IN BOTH IMPROVED & UNIMPROVED AREAS.
7. IN UNIMPROVED AREAS, ALL DISTURBED AREAS SHALL BE REGRADED, SEEDED & MULCHED.
8. IN CONCRETE ROADWAYS, A MINIMUM OF 1/2 PANEL WIDTH OR 10' x 5' SECTION WILL BE ALLOWED TO REMAIN, OTHERWISE THE ENTIRE CONCRETE PANEL MUST BE REPLACED.
9. USE #4 REBAR AT 2' CENTERS ALONG THE PERIMETER OF CONCRETE REPLACEMENT SECTIONS.
10. 6" MAXIMUM COMPACTED LIFT THICKNESS IF FLOWABLE FILL NOT REQUIRED.
11. BEDDING MATERIAL DEPTH WHEN INSTALLING STORM SEWER SHALL BE UP TO SPRING LINE, EXCEPT IN AREAS OF UNSUITABLE BACKFILL, THEN BEDDING MATERIAL SHALL BE 12" ABOVE PIPE.
12. TRENCH WIDTHS LESS THAN 4' OR TRENCHING THAT EXPERIENCES CAVE-INS OR SLOUGHING SHALL REQUIRE FLOWABLE FILL IN ORDER TO ACHIEVE COMPACTION.



Sheet Revisions	
Date	Comments
3/20	REVISED PER STAFF COMMENTS
8/22	REVISED PER STAFF COMMENTS

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Town of Castle Rock
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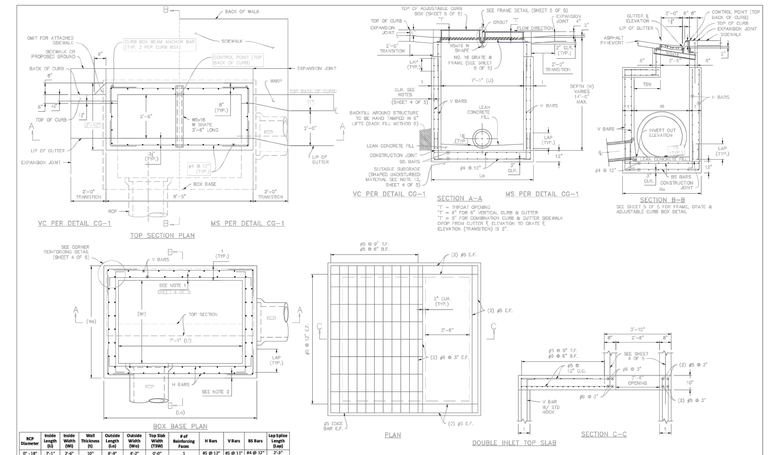
STORM SEWER TRENCH DETAIL

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-2
Sheet 1 of 1



RCP Diameter	Inside Length (LI)	Inside Width (WI)	Wall Thickness (t)	Outside Length (Lo)	Outside Width (Wo)	Top Slab Width (TSW)	# of Reinforcing Faces	H Bars	V Bars	BS Bars	Lap Splice Length (Lap)
2'-18"	7'-11"	2'-6"	10"	8'-6"	6'-0"	2'-0"	1	#5 @ 12"	#5 @ 12"	#4 @ 12"	2'-3"
21"-27"	7'-11"	2'-6"	10"	8'-6"	6'-0"	2'-0"	1	#5 @ 12"	#5 @ 12"	#4 @ 12"	2'-3"
30"-36"	7'-11"	4'-0"	10"	8'-6"	7'-10"	2'-6"	1	#5 @ 12"	#5 @ 12"	#4 @ 12"	2'-3"
42"	7'-11"	4'-6"	10"	8'-6"	8'-10"	3'-0"	1	#5 @ 12"	#5 @ 12"	#4 @ 12"	2'-3"
48"-54"	7'-11"	5'-0"	10"	8'-6"	9'-10"	3'-6"	1	#5 @ 12"	#5 @ 12"	#4 @ 12"	2'-3"
60"-72"	7'-11"	6'-6"	10"	8'-6"	12'-2"	4'-0"	2	#5 @ 9"	#5 @ 12"	#5 @ 9"	2'-9"
84"	7'-11"	8'-0"	10"	8'-6"	14'-6"	4'-6"	2	#5 @ 9"	#5 @ 12"	#5 @ 9"	2'-9"

Sheet Revisions	
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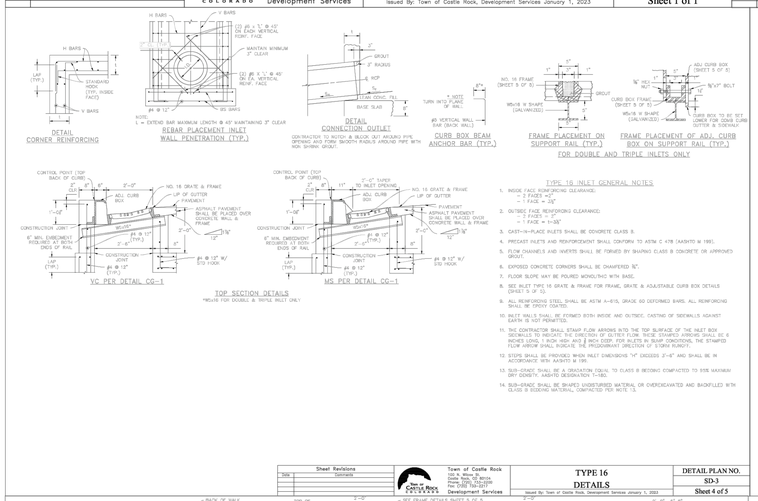
TYPE 16 DOUBLE INLET

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-3
Sheet 2 of 5



TYPE 16 INLET GENERAL NOTES
1. INSIDE FACE REINFORCING CLEARANCE:
   - 2 FACES = 2½"
   - 1 FACE = 2½"
2. OUTSIDE FACE REINFORCING CLEARANCE:
   - 2 FACES = 3"
   - 1 FACE = 1-¾"
3. CAST-IN-PLACE INLETS SHALL BE CONCRETE CLASS B.
4. PRECAST INLETS AND REINFORCEMENT SHALL CONFORM TO ASTM C 478 (AASHTO M 199).
5. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING CLASS B CONCRETE OR APPROVED GROUT.
6. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾".
7. FLOOR SLOPE MAY BE POURED MONOLITHIC WITH BASE.
8. SEE INLET TYPE 16 GRATE & FRAME FOR FRAME, GRATE & ADJUSTABLE CURB BOX DETAILS (SHEET 5 OF 5).
9. ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60 DEFORMED BARS. ALL REINFORCING SHALL BE EPOXY COATED.
10. INLET WALLS SHALL BE FORMED BOTH INSIDE AND OUTSIDE, CASTING OF SIDEWALLS AGAINST EARTH IS NOT PERMITTED.
11. THE CONTRACTOR SHALL STAMP FLOW ARROWS INTO THE TOP SURFACE OF THE INLET BOX SIDEWALLS TO INDICATE THE DIRECTION OF GUTTER FLOW. THESE STAMPED ARROWS SHALL BE 6 INCHES LONG, 1-INCH WIDE AND ¼ INCH DEEP. FOR INLETS IN SUMP CONDITIONS, THE STAMPED FLOW ARROW SHALL INDICATE THE PROGRAMMABLE DIRECTION OF STORM RUNOFF.
12. STEPS SHALL BE PROVIDED WHEN INLET EMBEDMENTS "H" EXCEEDS 2'-6" AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
13. SUB-GRADE SHALL BE SHAPED UNDISTURBED MATERIAL OR OVEREXCAVATED AND BACKFILLED WITH CLASS B BEDDING MATERIAL COMPACTED PER NOTE 13.
14. SUB-GRADE SHALL BE SHAPED UNDISTURBED MATERIAL OR OVEREXCAVATED AND BACKFILLED WITH CLASS B BEDDING MATERIAL COMPACTED PER NOTE 13.

Sheet Revisions	
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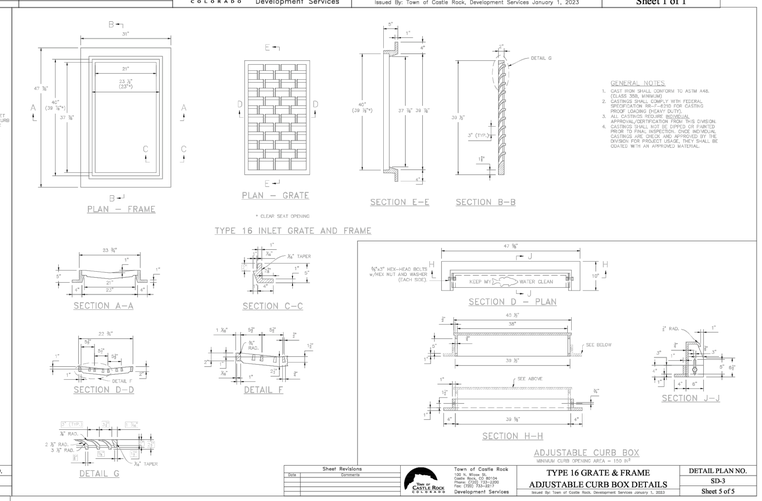
TYPE 16 DETAILS

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-3
Sheet 4 of 5



GENERAL NOTES
1. CAST IRON SHALL CONFORM TO ASTM A48, CLASS 35B, MINIMUM.
2. ALL WELDING SHALL COMPLY WITH FEDERAL SPECIFICATION QQ-L-635D FOR CARBON PROOF LOADING (HEAVY DUTY).
3. ALL WELDS SHALL BE CONTINUOUS, APPROVAL/CERTIFICATION FROM THE DIVISION.
4. CASTINGS SHALL NOT BE DIPPED OR PAINTED PRIOR TO FINAL INSPECTION. ONCE REMOVAL, DAMAGED CAST IRON SHALL BE REPAIRED AND DIVISION MUST BE NOTIFIED. ALL SURFACES SHALL BE COATED WITH AN APPROVED MATERIAL.

Sheet Revisions	
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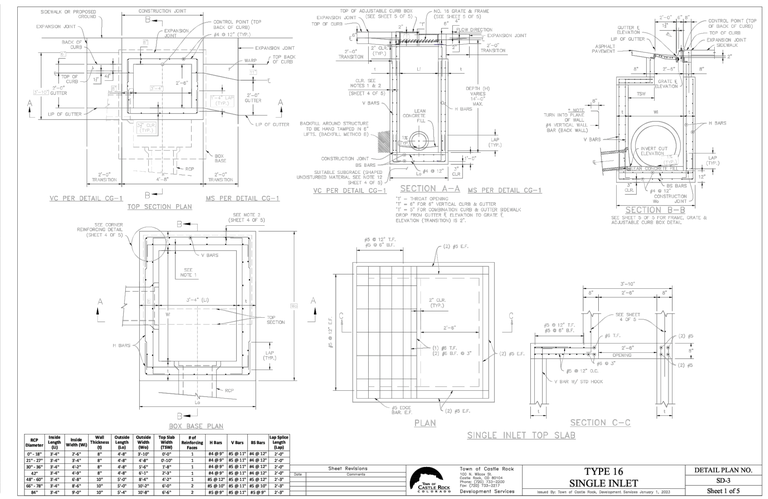
TYPE 16 GRATE & FRAME ADJUSTABLE CURB BOX DETAILS

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-3
Sheet 5 of 5



RCP Diameter	Inside Length (LI)	Inside Width (WI)	Wall Thickness (t)	Outside Length (Lo)	Outside Width (Wo)	Top Slab Width (TSW)	# of Reinforcing Faces	H Bars	V Bars	BS Bars	Lap Splice Length (Lap)
2'-18"	10'-11"	2'-6"	12"	12'-11"	4'-6"	2'-0"	2	#5 @ 9"	#5 @ 12"	#4 @ 12"	2'-3"
21"-27"	10'-11"	2'-6"	12"	12'-11"	5'-6"	2'-0"	2	#5 @ 9"	#5 @ 12"	#4 @ 12"	2'-3"
30"-36"	10'-11"	4'-0"	12"	12'-11"	6'-2"	2'-6"	2	#5 @ 9"	#5 @ 12"	#4 @ 12"	2'-3"
42"	10'-11"	4'-6"	12"	12'-11"	6'-8"	3'-0"	2	#5 @ 9"	#5 @ 12"	#4 @ 12"	2'-3"
48"-54"	10'-11"	5'-0"	12"	12'-11"	8'-8"	4'-0"	2	#5 @ 9"	#5 @ 12"	#5 @ 12"	2'-3"
60"-72"	10'-11"	6'-6"	12"	12'-11"	10'-4"	4'-6"	2	#5 @ 9"	#5 @ 12"	#5 @ 12"	2'-3"
84"	10'-11"	8'-0"	12"	12'-11"	12'-6"	5'-6"	2	#5 @ 9"	#5 @ 12"	#5 @ 9"	2'-3"

Sheet Revisions	
Date	Comments

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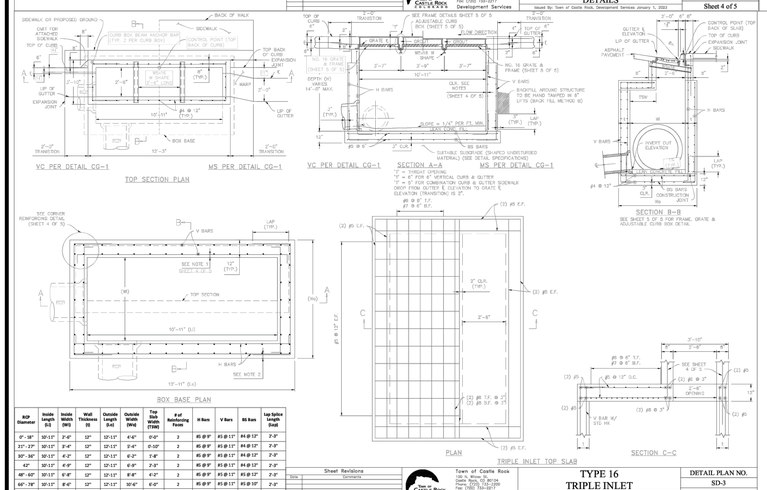
TYPE 16 SINGLE INLET

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-3
Sheet 1 of 5



RCP Diameter	Inside Length (LI)	Inside Width (WI)	Wall Thickness (t)	Outside Length (Lo)	Outside Width (Wo)	Top Slab Width (TSW)	# of Reinforcing Faces	H Bars	V Bars	BS Bars	Lap Splice Length (Lap)
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21"-27"	10'-11"	2'-6"	12"	12'-11"	5'-6"	2'-0"	3	#5 @ 9"	#5 @ 12"	#4 @ 12"	2'-3"
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84"	10'-11"	8'-0"	12"	12'-11"	12'-6"	5'-6"	3	#5 @ 9"	#5 @ 12"	#5 @ 9"	2'-3"

Sheet Revisions	
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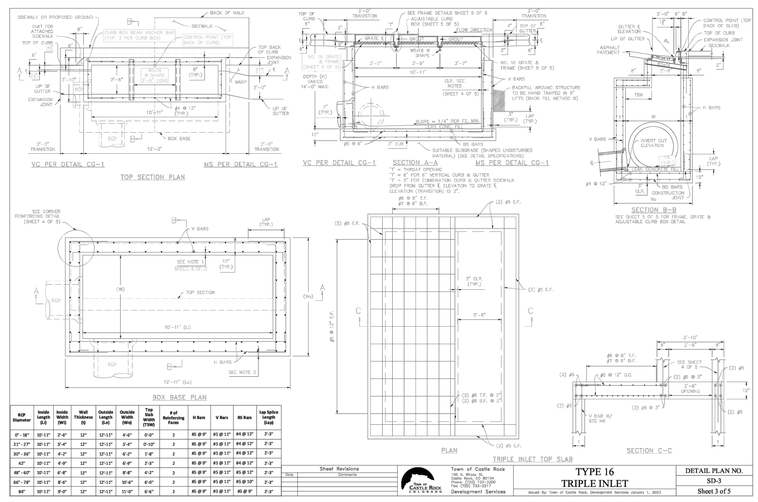
TYPE 16 TRIPLE INLET

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-3
Sheet 3 of 5



RCP Diameter	Inside Length (LI)	Inside Width (WI)	Wall Thickness (t)	Outside Length (Lo)	Outside Width (Wo)	Top Slab Width (TSW)	# of Reinforcing Faces	H Bars	V Bars	BS Bars	Lap Splice Length (Lap)
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21"-27"	10'-11"	2'-6"	12"	12'-11"	5'-6"	2'-0"	3	#5 @ 9"	#5 @ 12"	#4 @ 12"	2'-3"
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42"	10'-11"	4'-6"	12"	12'-11"	6'-8"	3'-0"	3	#5 @ 9"	#5 @ 12"	#4 @ 12"	2'-3"
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84"	10'-11"	8'-0"	12"	12'-11"	12'-6"	5'-6"	3	#5 @ 9"	#5 @ 12"	#5 @ 9"	2'-3"

Sheet Revisions	
Date	Comments

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TYPE 16 TRIPLE INLET

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-3
Sheet 3 of 5

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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO

CONSTRUCTION DOCUMENTS
STORM DETAILS (1 OF 4)

WESTSIDE

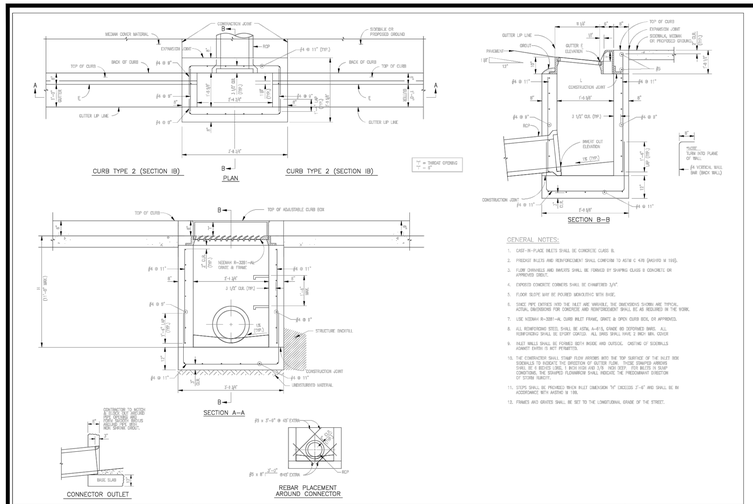
DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 67 OF 70

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

2025-10-01 (6:46 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk North\CDs STORM DETAILS.dwg



GENERAL NOTES:

1. CAST-IN-PLACE INLETS SHALL BE CONCRETE CLASS B.
2. PROVIDED INLETS AND REINFORCEMENT SHALL CONFORM TO ACI318 & ACI 305(ASTM D 1293).
3. FLOW CHANNELS AND WINGPOSTS SHALL BE FORMED BY SHAPING CLASS B CONCRETE OR APPROVED SIMILAR.
4. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
5. FLOOR SLOPE MAY BE PROVIDED MONOLITHIC WITH BASE.
6. TIMES PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL ACTUAL DIMENSIONS FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
7. USE NEENAH R-3281-HB, CURB INLET FRAME, GRATE & OPEN COVER BOX, OR APPROVED.
8. ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60 DEFORMED BARS. ALL REINFORCING SHALL BE EPOXY COATED. ALL BARS SHALL HAVE 3 INCH MIN. COVER
9. INLET SHALL SHALL BE FORMED BOTH INSIDE AND OUTSIDE. CAUTION OF SIDEWALLS AGAINST EARTH IS NOT PERMITTED.
10. THE CONSTRUCTION SHALL START FLOW ARROWS WITH THE TOP SURFACE OF THE INLET BOX SIDEWALLS TO INDICATE THE DIRECTION OF BOTTOM FLOW. THESE STAMPED ARROWS SHALL BE 4 REQUIRED (1NR.) 1 BOX-EACH AND 3.75" TOO WIDTH TO SHAP CONTAINING THE STAMPED FLOWARROW SHALL INDICATE THE PREDOMINANT DIRECTION OF STORM RUNOFF.
11. STOPS SHALL BE PROVIDED TWICE INLET DIMENSION "H" EXCEEDS 2'-6" AND SHALL BE IN ACCORDANCE WITH ASTM D 1751.
12. FRAMES AND GRATES SHALL BE SET TO THE CONSTANNAL GRADE OF THE STREET.

Sheet Revisions	
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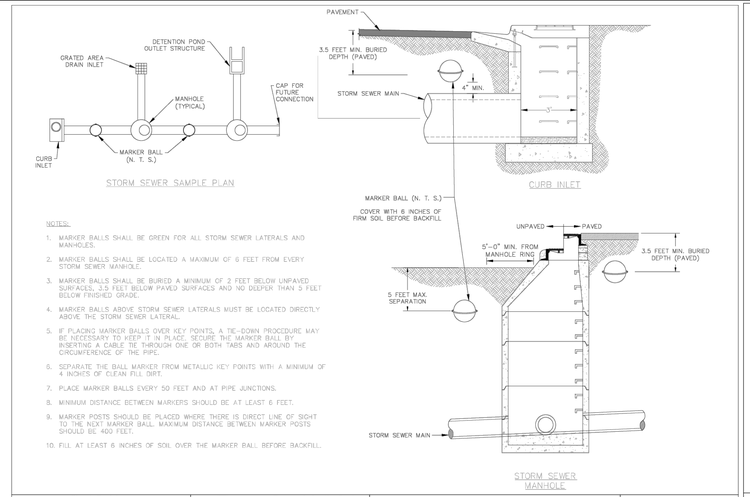
TYPE 16 INLET SPECIAL

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-4
Sheet 1 of 1



NOTES:

1. MARKER BALLS SHALL BE GREEN FOR ALL STORM SEWER LATERALS AND MANHOLES.
2. MARKER BALLS SHALL BE LOCATED A MAXIMUM OF 6 FEET FROM EVERY STORM SEWER MANHOLE.
3. MARKER BALLS SHALL BE BURIED A MINIMUM OF 2 FEET BELOW UNPAVED SURFACES, 3.5 FEET BELOW PAVED SURFACES AND NO DEEPER THAN 5 FEET BELOW FINISHED GRADE.
4. MARKER BALLS ABOVE STORM SEWER LATERALS MUST BE LOCATED DIRECTLY ABOVE THE STORM SEWER LATERAL.
5. IF PLACING MARKER BALLS OVER KEY POINTS, A TIE-DOWN PROCEDURE MAY BE NECESSARY TO KEEP IT IN PLACE. SECURE THE MARKER BALL BY INSERTING A CABLE TIE THROUGH ONE OR BOTH TABS AND AROUND THE CIRCUMFERENCE OF THE PIPE.
6. SEPARATE THE BALL MARKER FROM METALLIC KEY POINTS WITH A MINIMUM OF 4 INCHES OF CLEAN FILL DIRT.
7. PLACE MARKER BALLS EVERY 50 FEET AND AT PIPE JUNCTIONS.
8. MINIMUM DISTANCE BETWEEN MARKERS SHOULD BE AT LEAST 6 FEET.
9. MARKER POSTS SHOULD BE PLACED WHERE THERE IS DIRECT LINE OF SIGHT TO THE NEXT MARKER BALL. MAXIMUM DISTANCE BETWEEN MARKER POSTS SHOULD BE 400 FEET.
10. FILL AT LEAST 6 INCHES OF SOIL OVER THE MARKER BALL BEFORE BACKFILL.

Sheet Revisions	
Date	Comments
10/21	REVISED PER STAFF COMMENTS
12/21	REVISED PER STAFF COMMENTS
10/22	REVISED PER STAFF COMMENTS

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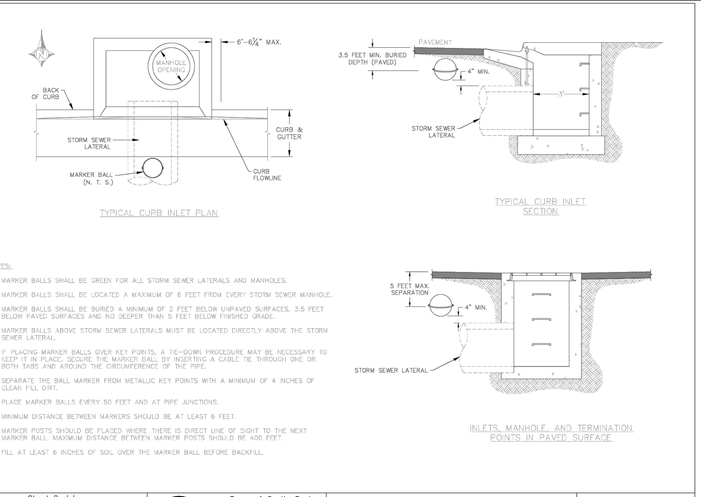
MARKER BALLS FOR STORM SEWERS

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-5
Sheet 1 of 1



NOTES:

1. MARKER BALLS SHALL BE GREEN FOR ALL STORM SEWER LATERALS AND MANHOLES.
2. MARKER BALLS SHALL BE LOCATED A MAXIMUM OF 6 FEET FROM EVERY STORM SEWER MANHOLE.
3. MARKER BALLS SHALL BE BURIED A MINIMUM OF 2 FEET BELOW UNPAVED SURFACES, 3.5 FEET BELOW PAVED SURFACES AND NO DEEPER THAN 5 FEET BELOW FINISHED GRADE.
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6. SEPARATE THE BALL MARKER FROM METALLIC KEY POINTS WITH A MINIMUM OF 4 INCHES OF CLEAN FILL DIRT.
7. PLACE MARKER BALLS EVERY 50 FEET AND AT PIPE JUNCTIONS.
8. MINIMUM DISTANCE BETWEEN MARKERS SHOULD BE AT LEAST 6 FEET.
9. MARKER POSTS SHOULD BE PLACED WHERE THERE IS DIRECT LINE OF SIGHT TO THE NEXT MARKER BALL. MAXIMUM DISTANCE BETWEEN MARKER POSTS SHOULD BE 400 FEET.
10. FILL AT LEAST 6 INCHES OF SOIL OVER THE MARKER BALL BEFORE BACKFILL.

Sheet Revisions	
Date	Comments
12/21	REVISED PER STAFF COMMENTS
10/22	REVISED PER STAFF COMMENTS

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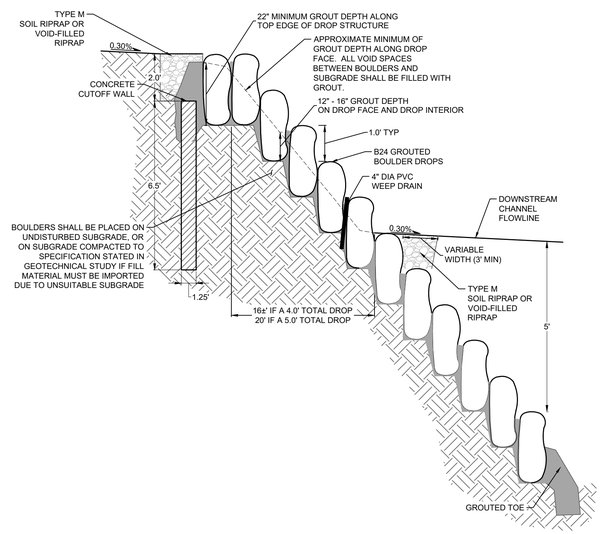
MARKER BALL DETAILS AT STORM SEWER LATERALS

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SD-6
Sheet 1 of 1



DROP STRUCTURE TYPICAL SECTION
ALONG CHANNEL CENTERLINE
N.T.S

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
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#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM DETAILS (2 OF 4)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO.
20-224

SHEET
68 OF 70

2025-10-01 (6:46 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM DETAILS.dwg

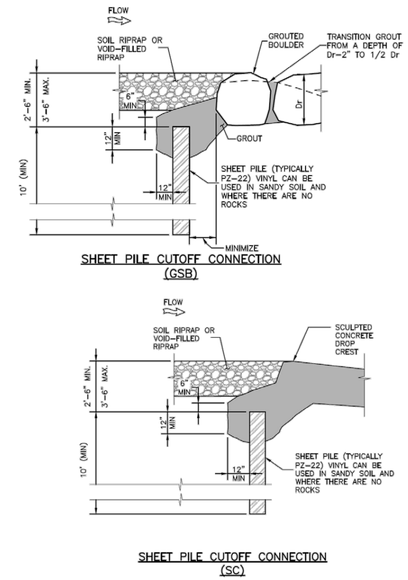


Figure 9-7. Sheet pile cutoff wall upstream of drop structure

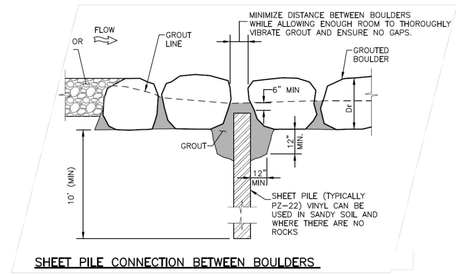


Figure 9-8. Sheet pile cutoff wall connections between boulders

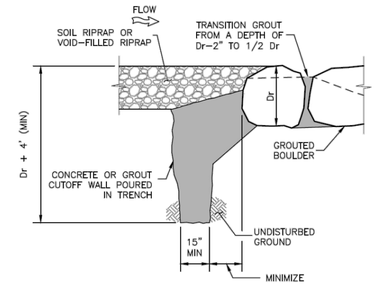
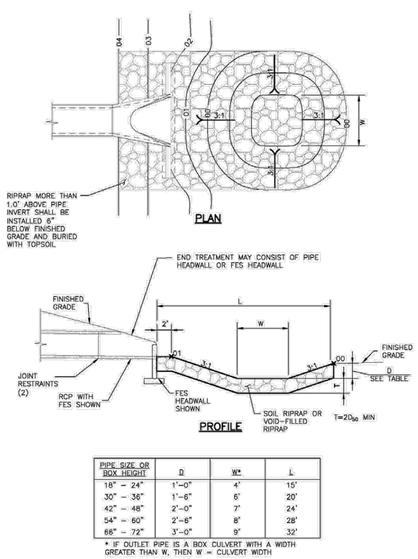


Figure 9-9. Concrete or grout cutoff wall upstream of drop structure



PIPE SIZE OR BOX HEIGHT	D	W*	L
18" – 24"	1'-0"	4'	15'
30" – 36"	1'-6"	6'	20'
42" – 48"	2'-0"	7'	24'
54" – 60"	2'-6"	8'	28'
66" – 72"	3'-0"	9"	32'

* IF OUTLET PIPE IS A BOX CULVERT WITH A WIDTH GREATER THAN W, THEN W = CULVERT WIDTH

Figure 9-37. Low tailwater riprap basin

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444
LIVEYOURCORE.COM

LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

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

#	REVISION DESCRIPTION	DATE	BY
1	1ST SUBMITTAL	06/29/23	JFF
2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM DETAILS (3 OF 4)

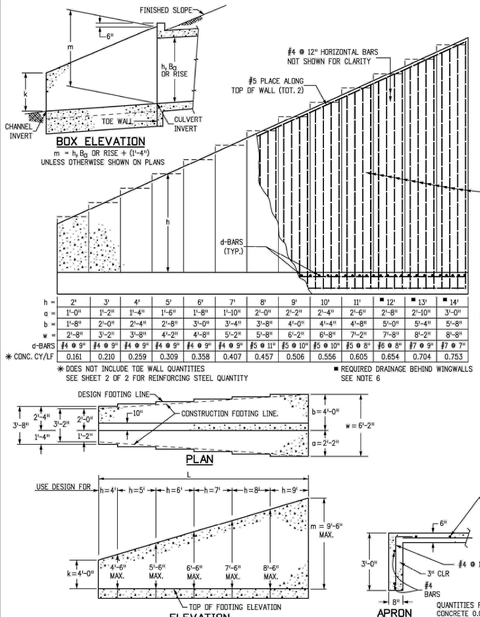
WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 69 OF 70

2025-10-01 (6:46 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk\Prairie Hawk North\CDs STORM DETAILS.dwg



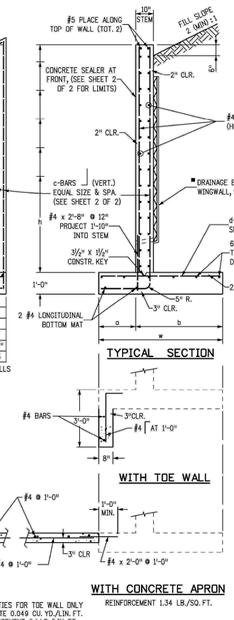
BOX ELEVATION

m = h_1 B_D OR RISE + (1'-4")
UNLESS OTHERWISE SHOWN ON PLANS

h =	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	■ 12'	■ 13'	■ 14'
a =	1'-0"	1'-2"	1'-4"	1'-6"	1'-8"	1'-10"	2'-0"	2'-2"	2'-4"	2'-6"	2'-8"	2'-10"	3'-0"
b =	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-4"	4'-8"	5'-0"	5'-4"	5'-8"
w =	2'-8"	3'-2"	3'-8"	4'-2"	4'-8"	5'-2"	5'-8"	6'-2"	6'-8"	7'-2"	7'-8"	8'-2"	8'-8"
d-BARS	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#5 @ 11"	#5 @ 10"	#5 @ 10"	#5 @ 10"	#5 @ 8"	#7 @ 9"	#7 @ 7"
✱ CONC. CY/LF	0.161	0.210	0.259	0.309	0.358	0.407	0.457	0.506	0.556	0.605	0.654	0.704	0.753

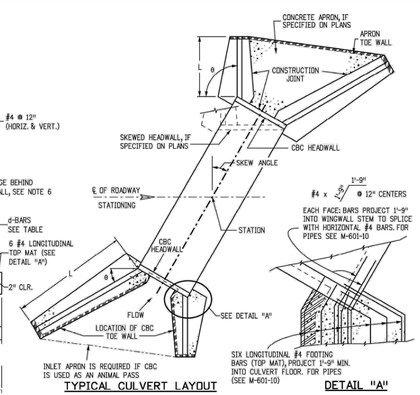
✱ DOES NOT INCLUDE TOE WALL QUANTITIES
SEE SHEET 2 OF 2 FOR REINFORCING STEEL QUANTITY

■ REQUIRED DRAINAGE BEHIND WINGWALLS
SEE NOTE 6



QUANTITIES FOR TOE WALL ONLY
CONCRETE 0.049 CU. YD./LIN. FT.
REINFORCEMENT 5.1 LB./LIN. FT.

REINFORCEMENT 1.34 LB./SQ. FT.



TYPICAL CULVERT LAYOUT

DETAIL "A"

DESIGN DATA:

AASHTO LRFD EIGHTH EDITION, 2017
DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN, YIELD LINE METHOD

REINFORCED CONCRETE:
CONCRETE CLASS D (BOX CULVERT): f'_c = 4,500 PSI
REINFORCING STEEL: f_y = 60,000 PSI

LOADING:
AT-REST EARTH (FLUID) PRESSURE FOR CONCRETE STEM DESIGN = 55 PCF FOR 2 (MIN.) : 1 SLOPED BACKFILL
ACTIVE EARTH (FLUID) PRESSURE FOR CONCRETE FOOTING DESIGN = 40 PCF FOR 2 (MIN.) : 1 SLOPED BACKFILL
LIVE LOAD SURCHARGE = 2'
MINIMUM RESISTANCE FOR SOIL BEARING = 5.5 KSF
SOIL BEARING RESISTANCE FACTOR = 0.45

GENERAL NOTES:

1. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ IN.
2. WINGWALL FOOTING AND FLOOR OF BOX CULVERT SHALL BE PLACED MONOLITHICALLY.
3. DIMENSIONS "m", "k", "L", "m" AND ANGLE "θ" FOR WINGWALL SHALL BE AS SHOWN ON THE PLANS.
4. MINIMUM CLASS B LAP SPLICE LENGTH FOR BLACK REINFORCING BARS:

BAR SIZE:	#4	#5	#6	#7
SPLICE LENGTH:	1'- 6"	1'-11"	2'-3"	2'-7"

5. DESIGN DOES NOT CONSIDER ANY SCOUR EFFECTS.
6. WINGWALL DRAIN SHALL BE REQUIRED IF "m" ≥ 12.0 FT., SEE SHEET 2 OF 2 FOR DETAILS.

Computer File Information		Sheet Revisions	
Creation Date: 07/31/19		Date:	Comments
Designer Initials: JBK			
Last Modification Date: 07/31/19			
Detailer Initials: LTA			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			

Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

WINGWALLS FOR PIPE OR BOX CULVERTS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-601-20
Standard Sheet No. 1 of 2
Project Sheet Number:

c-BARS AND REINFORCING STEEL QUANTITY (EXCLUDE TOE WALL)

✱ REINFORCING STEEL QUANTITY INCLUDES STEM AND FOOTING QUANTITIES, BUT DOES NOT INCLUDE TOE WALL QUANTITIES.

L (MULTIPLE OF m)		≤ (1.0 x m)		≤ (1.25 x m)		≤ (1.5 x m)		≤ (1.75 x m)		≤ (2.0 x m)		≤ (2.25 x m)		≤ (2.5 x m)		≤ (2.75 x m)		≤ (3.0 x m)		≤ (3.25 x m)		≤ (3.5 x m)	
m (FT)	k (FT)	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.	c-BARS	✱ REINF. LB./L.F.
14	4	#4 @ 10"	53.60	#5 @ 10"	57.95	#5 @ 10"	57.10	#5 @ 8"	60.22	#5 @ 7"	62.43	#5 @ 7"	62.09	#5 @ 6"	65.38	#5 @ 6"	65.15	#6 @ 8"	67.10	#6 @ 8"	66.94	#6 @ 7"	70.66
	5	#4 @ 10"	55.86	#5 @ 10"	60.46	#5 @ 10"	59.60	#5 @ 8"	62.89	#5 @ 7"	65.23	#5 @ 7"	64.88	#5 @ 6"	68.34	#5 @ 6"	68.11	#6 @ 8"	70.17	#6 @ 8"	70.00	#6 @ 7"	73.90
	6	#5 @ 10"	64.43	#5 @ 10"	70.60	#5 @ 10"	69.69	#5 @ 8"	74.93	#5 @ 8"	74.45	#6 @ 7"	78.30	#6 @ 6"	83.64	#6 @ 6"	83.40	#6 @ 6"	83.22	#6 @ 6"	83.05	#7 @ 7"	89.64
	7	#5 @ 10"	67.29	#6 @ 10"	73.76	#6 @ 10"	72.83	#6 @ 8"	78.32	#6 @ 8"	77.84	#6 @ 7"	81.87	#6 @ 6"	87.45	#6 @ 6"	87.21	#6 @ 6"	87.02	#6 @ 6"	86.86	#7 @ 7"	93.73
	8	#5 @ 8"	74.71	#6 @ 8"	83.46	#6 @ 7"	87.09	#6 @ 6"	92.54	#7 @ 7"	99.47	#7 @ 7"	99.08	#7 @ 6"	107.11	#7 @ 6"	106.86	#7 @ 6"	106.66	#7 @ 6"	106.49	#7 @ 6"	106.35
	9	#5 @ 8"	78.10	#6 @ 8"	87.23	#6 @ 7"	91.03	#6 @ 6"	96.72	#7 @ 7"	103.93	#7 @ 7"	103.54	#7 @ 6"	111.90	#7 @ 6"	111.65	#7 @ 6"	111.45	#7 @ 6"	111.28	#7 @ 6"	111.13
13	4	#4 @ 10"	50.51	#4 @ 10"	49.25	#5 @ 10"	53.71	#5 @ 10"	53.09	#5 @ 10"	52.36	#5 @ 9"	53.85	#5 @ 8"	55.54	#5 @ 7"	57.85	#5 @ 7"	57.67	#5 @ 7"	57.51	#6 @ 9"	59.93
	5	#4 @ 10"	52.66	#4 @ 10"	51.37	#5 @ 10"	56.09	#5 @ 10"	55.46	#5 @ 10"	54.99	#5 @ 9"	56.29	#5 @ 8"	58.08	#5 @ 7"	60.51	#5 @ 7"	60.33	#5 @ 7"	60.17	#6 @ 8"	62.72
	6	#4 @ 10"	54.92	#5 @ 10"	59.48	#5 @ 9"	60.31	#6 @ 9"	67.56	#6 @ 9"	67.08	#6 @ 9"	66.70	#6 @ 8"	69.53	#6 @ 8"	69.28	#6 @ 7"	73.12	#6 @ 7"	72.95	#6 @ 7"	72.81
	7	#4 @ 10"	57.36	#5 @ 10"	62.16	#5 @ 9"	63.05	#6 @ 9"	70.66	#6 @ 9"	70.16	#6 @ 9"	69.78	#6 @ 8"	72.75	#6 @ 8"	72.50	#6 @ 7"	76.52	#6 @ 7"	76.35	#6 @ 7"	76.20
	8	#5 @ 10"	66.39	#6 @ 10"	72.82	#5 @ 8"	77.97	#6 @ 7"	81.68	#6 @ 7"	81.19	#6 @ 6"	86.67	#6 @ 6"	86.37	#7 @ 7"	93.18	#7 @ 7"	92.97	#7 @ 7"	92.80	#7 @ 7"	92.64
	9	#5 @ 10"	69.37	#6 @ 10"	76.10	#6 @ 8"	81.49	#6 @ 7"	85.37	#6 @ 7"	84.87	#6 @ 6"	90.59	#6 @ 6"	90.29	#7 @ 7"	97.39	#7 @ 7"	97.18	#7 @ 7"	97.00	#7 @ 7"	96.85
12	2	#4 @ 10"	43.91	#4 @ 10"	42.65	#4 @ 10"	41.82	#4 @ 10"	41.22	#4 @ 10"	40.78	#4 @ 9"	41.29	#5 @ 10"	44.61	#5 @ 10"	44.37	#5 @ 10"	44.18	#5 @ 10"	44.01	#5 @ 10"	43.87
	3	#4 @ 10"	45.82	#4 @ 10"	44.55	#4 @ 10"	43.71	#4 @ 10"	43.11	#4 @ 10"	42.66	#4 @ 9"	43.22	#5 @ 10"	46.75	#5 @ 10"	46.51	#5 @ 10"	46.32	#5 @ 10"	46.15	#5 @ 10"	46.01
	4	#4 @ 10"	47.80	#4 @ 10"	46.51	#4 @ 10"	45.65	#5 @ 10"	50.06	#5 @ 10"	49.59	#5 @ 10"	49.23	#5 @ 10"	48.94	#5 @ 10"	48.69	#5 @ 9"	50.00	#5 @ 8"	51.72	#5 @ 8"	51.57
	5	#4 @ 10"	49.84	#4 @ 10"	48.53	#4 @ 10"	47.66	#5 @ 10"	52.33	#5 @ 10"	51.85	#5 @ 10"	51.48	#5 @ 10"	51.19	#5 @ 10"	50.94	#5 @ 9"	52.33	#5 @ 8"	54.14	#5 @ 8"	54.00
	6	#4 @ 10"	51.99	#4 @ 10"	50.65	#5 @ 10"	55.34	#5 @ 8"	58.41	#5 @ 8"	57.93	#6 @ 10"	60.60	#6 @ 10"	60.29	#6 @ 9"	62.42	#6 @ 9"	62.22	#6 @ 9"	62.04	#6 @ 8"	64.89
	7	#4 @ 10"	54.30	#5 @ 10"	58.80	#5 @ 10"	57.87	#5 @ 8"	61.10	#5 @ 8"	60.61	#6 @ 10"	63.43	#6 @ 10"	63.11	#6 @ 9"	65.35	#6 @ 9"	65.15	#6 @ 9"	64.97	#6 @ 8"	67.96
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	3	#4 @ 10"	43.57	#4 @ 10"	42.27	#4 @ 10"	41.40	#4 @ 10"	40.79	#4 @ 10"	40.33	#4 @ 10"	39.97	#4 @ 10"	39.69	#4 @ 10"	39.45	#4 @ 9"	40.12	#5 @ 10"	43.54	#5 @ 10"	43.39
	4	#4 @ 10"	45.48	#4 @ 10"	44.16	#4 @ 10"	43.28	#4 @ 10"	42.66	#4 @ 9"	43.09	#5 @ 10"	46.57	#5 @ 10"	46.27	#5 @ 10"	46.02	#5 @ 10"	45.82	#5 @ 10"	45.65	#5 @ 10"	45.50
	5	#4 @ 10"	47.46	#4 @ 10"	46.10	#4 @ 10"	45.21	#4 @ 10"	44.58	#4 @ 9"	45.06	#5 @ 10"	48.74	#5 @ 10"	48.44	#5 @ 10"	48.19	#5 @ 10"	47.99	#5 @ 10"	47.81	#5 @ 10"	47.67
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	7	#4 @ 10"	51.73	#4 @ 10"	50.31	#4 @ 9"	50.43	#5 @ 10"	54.29	#5 @ 10"	53.78	#5 @ 9"	55.04	#5 @ 9"	54.73	#5 @ 8"	56.55	#5 @ 8"	56.35	#5 @ 7"	58.84	#5 @ 7"	58.70
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9	2	#4 @ 10"	38.01	#4 @ 10"	36.75	#4 @ 10"	35.85	#4 @ 10"	35.21	#4 @ 10"	34.73	#4 @ 10"	34.36	#4 @ 10"	34.06	#4 @ 10"	33.81	#4 @ 10"	33.61	#4 @ 10"	33.44	#4 @ 10"	33.30
	3	#4 @ 10"	39.93	#4 @ 10"	38.56	#4 @ 10"	37.64	#4 @ 10"	36.99	#4 @ 10"	36.51	#4 @ 10"	36.13	#4 @ 10"	35.83	#4 @ 10"	35.58	#4 @ 10"	35.38	#4 @ 10"	35.21	#4 @ 10"	35.06
	4	#4 @ 10"	41.81	#4 @ 10"	40.40	#4 @ 10"	39.47	#4 @ 10"	38.81	#4 @ 10"	38.31	#4 @ 10"	37.93	#4 @ 10"	37.63	#4 @ 10"	37.37	#4 @ 10"	37.17	#4 @ 10"	36.99	#4 @ 10"	36.84
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8	2	#4 @ 10"	36.41	#4 @ 10"	35.01	#4 @ 10"	34.08	#4 @ 10"	33.42	#4 @ 10"	32.92	#4 @ 10"	32.54	#4 @ 10"	32.23	#4 @ 10"	31.97	#4 @ 10"	31.77	#4 @ 10"	31.59	#4 @ 10"	31.44
	3	#4 @ 10"	38.23	#4 @ 10"	36.80	#4 @ 10"	35.85	#4 @ 10"	35.18	#4 @ 10"	34.67	#4 @ 10"	34.28	#4 @ 10"	33.97	#4 @ 10"	33.70	#4 @ 10"	33.50	#4 @ 10"	33.32	#4 @ 10"	33.17
	4	#4 @ 10"	40.09	#4 @ 10"	38.61	#4 @ 10"	37.64	#4 @ 10"	36.95	#4 @ 10"	36.44	#4 @ 10"	36.04	#4 @ 10"	35.72	#4 @ 10"	33.45	#4 @ 10"	35.25	#4 @ 10"	35.07	#4 @ 10"	34.91
	5	#4 @ 10"	41.99	#4 @ 10"	40.47	#4 @ 10"	39.47	#4 @ 10"	38.76	#4 @ 10"	38.24	#4 @ 10"	37.83	#4 @ 10"	37.50	#4 @ 10"	37.23	#4 @ 10"	37.02	#4 @ 10"	36.84	#4 @ 10"	36.68
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	7	#4 @ 10"	46.19	#4 @ 10"	44.56	#4 @ 10"	43.49	#4 @ 10"	42.74	#4 @ 10"	42.18	#4 @ 10"	41.75	#4 @ 10"	41.41	#4 @ 10"	41.13	#4 @ 9"	45.65	#5 @ 10"	45.45	#5 @ 10"	45.28
7	2	#4 @ 10"	34.90	#4 @ 10"	33.44	#4 @ 10"	32.47	#4 @ 10"	31.78	#4 @ 10"	31.27	#4 @ 10"	30.86	#4 @ 10"	30.54	#4 @ 10"	30.27	#4 @ 10"	30.06	#4 @ 10"	29.88	#4 @ 10"	29.72
	3	#4 @ 10"	36.73	#4 @ 10"	35.23	#4 @ 10"	34.23	#4 @ 10"	33.53	#4 @ 10"	33.00	#4 @ 10"	32.59	#4 @ 10"	32.26	#4 @ 10"	31.99	#4 @ 10"	31.78	#4 @ 10"	31.59	#4 @ 10"	31.43
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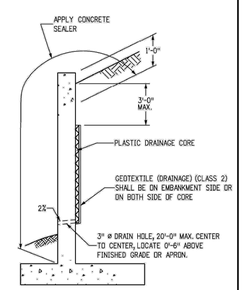
	5	#4 @ 10"	40.48	#4 @ 10"	38.86	#4 @ 10"	37.80	#4 @ 10"	37.06	#4 @ 10"	36.50	#4 @ 10"	36.07	#4 @ 10"	35.73	#4 @ 10"	35.44	#4 @ 10"	35.22	#4 @ 10"	35.03	#4 @ 10"	34.86
	6	#4 @ 10"	42.39	#4 @ 10"	40.71	#4 @ 10"	39.61	#4 @ 10"	38.84	#4 @ 10"	38.26	#4 @ 10"	37.82	#4 @ 10"	37.47	#4 @ 10"	37.17	#4 @ 10"	36.95	#4 @ 10"	36.75	#4 @ 10"	36.58

EXAMPLE:

SELECT THE c-BARS SIZE, SPACING AND STEEL QUANTITY FOR A 25.0 FEET LONG WINGWALL WITH m = 11.8 FT. AND k = 6.3 FT.

SOLUTION:

1. DETERMINE WINGWALL LENGTH IN MULTIPLE OF m:
   L / m = 25.0 / 11.8 = 2.12
   L = (2.12 x m), USE L ≤ (2.25 x m)
2. ROUND TO REAREST WHOLE NUMBER FOR m AND k:
   m = 11.8 FT., USE m = 12.0 FT.
   k = 6.3 FT., USE k = 6.0 FT.
3. DETERMINE c-BARS BY USING THE TABLE:
   L ≤ (2.25 x m)
   m = 12
   k = 6
   c-BARS: #6 @ 10"
   REINF. STEEL = 60.60 LB / LF
4. DETERMINE REINFORCING STEEL QUANTITY OF WHOLE WINGWALL:
   REINFORCING STEEL QUANTITY = 25.0 x 60.60 = 1,515 LB.



LIMITS OF CONCRETE SEALER AND WINGWALL DRAIN DETAILS

NOTES: 1. THE GEOCOMPOSITE SHALL BE SECURED TO THE WALL TO PREVENT MOVEMENT DURING BACKFILLING.

2. COST OF GEOCOMPOSITE DRAIN AND CONCRETE SEALER SHALL BE INCLUDED IN THE WORK.

Computer File Information		Sheet Revisions	
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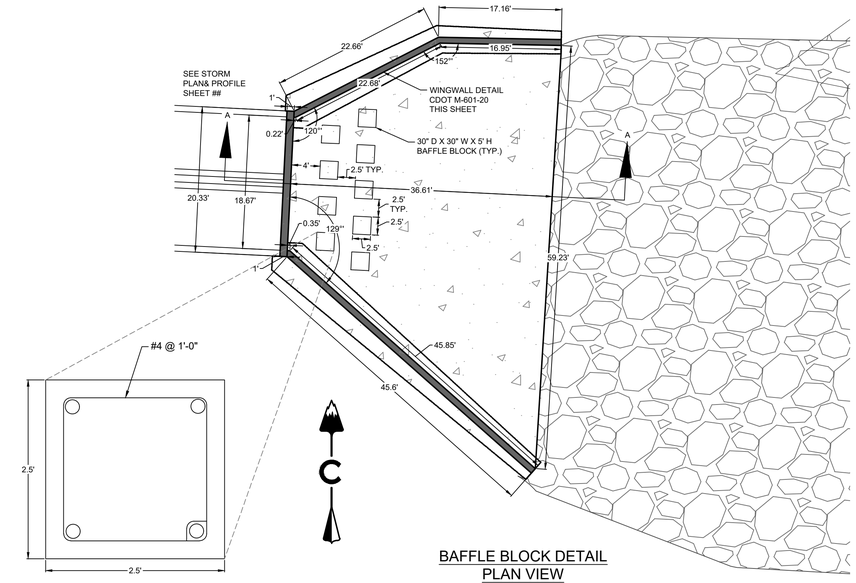
Project Development Branch JBK

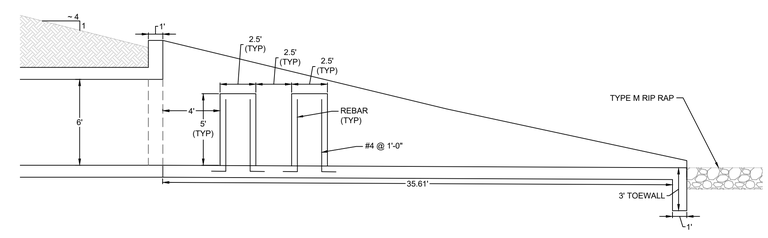
WINGWALLS FOR PIPE OR BOX CULVERTS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-601-20
Standard Sheet No. 2 of 2
Project Sheet Number:



BAFFLE BLOCK DETAIL
PLAN VIEW
SCALE: 1" = 10'



BAFFLE BLOCK DETAIL
SECTION A-A
SCALE: 1" = 5'

DAWSON TRAILS BLVD
CONSTRUCTION DOCUMENTS
PROJECT NO. CD 23-0020

CORE CONSULTANTS, INC.
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2	2ND SUBMITTAL	10/09/23	JFF
3	3RD SUBMITTAL	06/25/25	MG

DAWSON TRAILS BLVD (NORTH)
CASTLE ROCK, COLORADO
CONSTRUCTION DOCUMENTS
STORM DETAILS (4 OF 4)

WESTSIDE

DESIGNED BY: MG
DRAWN BY: CT
CHECKED BY: MG

JOB NO. 20-224

SHEET 70 OF 70

2025-10-01 (6:46 PM) X:\20-224 Dawson\Civil\CAD\Plans\Prairie Hawk North\CDs STORM DETAILS.dwg