# STATE HIGHWAY 105 / JACKSON CREEK PARKWAY - PHASE 2

#### **EL PASO COUNTY GENERAL CONSTRUCTION NOTES:**

COUNTY OF EL PASO, TOWN OF MONUMENT, STATE OF COLORADO

- THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATED AND PRESERVE ANY AND ALL UTILITIES.
- 2. BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
- 3. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE
- 4. ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD).
- 5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED
- 6. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION
- 7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K 1.2C.
- 8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- 9. BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- 10. ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY PLANNING AND COMMUNITY DEVELOPMENT PRIOR TO CONSTRUCTION.
- 11. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- 12. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED
- 13. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS

#### STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

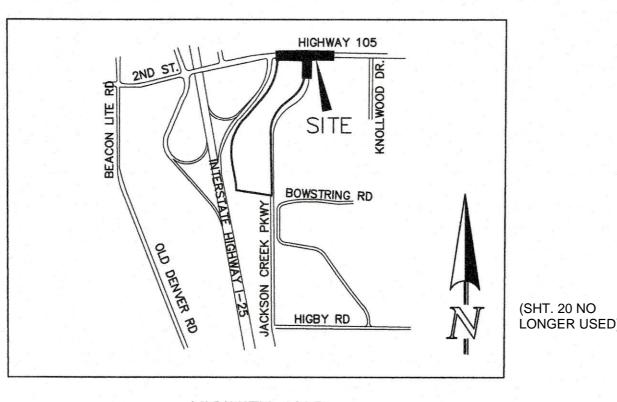
- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING: a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2 c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d. CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT -INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP' REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY
- 8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP OR CLASS IV WITH WATER TIGHT JOINTS WHERE CALLED OUT, UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE
- 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE,

#### EL PASO COUNTY SIGNING AND STRIPING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- 3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY
- 4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
- 5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- 6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS."
- 8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- 9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE COOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- 10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS,
- 11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 24" WIDE AND 9' LONG.
- 12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- 13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON
- 14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

# CONSTRUCTION PLANS

FEBRUARY 2023



VICINITY MAP

CDOT JURISDICTION

#### SHEET INDEX SHEET 1

SHEETS 21 THRU 22

TITLE SHEET SHEET 2 STANDARD NOTES SHEET 3 CDOT STANDARD PLAN LIST SHEET 4 DEMO PLAN SHEET 5 EROSION CONTROL PLAN SHEET 6 RETAINING WALL PLAN SHEET 7 RETAINING WALL DETAILS SHEETS 8 THRU 9 ROADWAY SECTION PLANS (HIGHWAY 105) SHEETS 10 THRU 11 ROADWAY SECTION PLANS (JACKSON CREEK PKWY) SHEETS 12 THRU 15 ROADWAY IMPROVEMENT PLAN & PROFILE SHEET 16 PEDESTRIAN RAMP DETAIL GRADING SHEET 17 ROADWAY STRIPING PLAN SHEET 18 ROADWAY SIGNAGE PLAN EMERGENCY OVERFLOW CONSTRUCTION

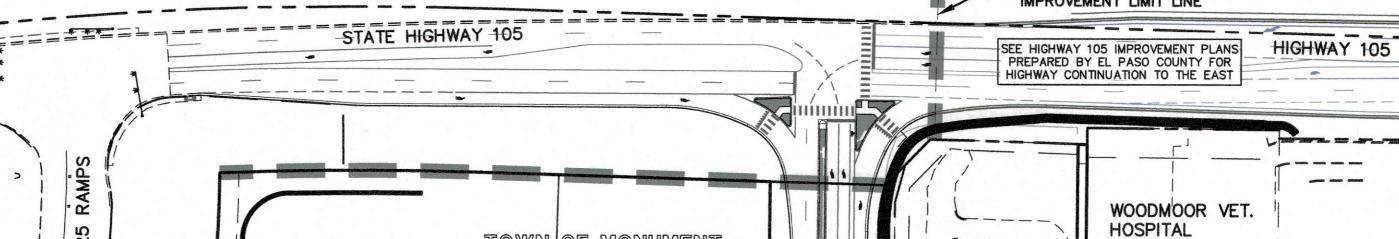
SHEETS 23 DETAIL SHEET SHEETS 24 THRU 26 SIGNAL DESIGN PLAN HWY.105/JCP (FHU)

SIGNAL DESIGN PLAN FAT TIRE/JCP (FHU)

EL PASO COUNTY JURISDICTION

STORM SEWER PLAN & PROFILES

HIGHWAY 105 PROJECT A" IMPROVEMENT LIMIT LINE



TOWN OF MONUMENT

LOT 2 ELEPHONE

LAUGHING LAB WAY

48 HOURS BEFORE YOU DIG.

MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND

PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

LOT 3 MONUMENT JUNCTION WEST FILING NO. 1

NO. REVISION

MONUMENT JUNCTION EAST FILING NO. 2

EDARP PROJECT NUMBER: CDR237

2/29/2024

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CONSULTING

STATE HIGHWAY 105 / JACKSON CREEK PKWY. - PHASE 2 CONSTRUCTION PLANS ROADWAY IMPROVEMENT PLANS

PRA | SCALE DESIGNED BY DATE 02-23-23 PRA (H) 1"= VARIES | SHEET 1 OF 26 (V) 1"= N/A JOB NO. CHECKED BY (719)785-0799(Fax)

**AGENCIES** 

**DEVELOPER:** 

CIVIL ENGINEER:

COLORADO DEPARTMENT

COLORADO DEPARTMENT

COLORADO DEPARTMENT

ENVIRONMENTAL / ROW

COUNTY ENGINEERING:

GAS COMPANY:

ELECTRIC COMPANY:

TELEPHONE COMPANY:

DESIGN ENGINEER'S STATEMENT:

MARC A WHORTON, COLORADO P.E. #37155

OWNER/DEVELOPER'S STATEMENT:

TOWN OF MONUMENT APPROVAL:

FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

STEVE SCHLOSSER, VICE PRESIDENT/PROJECT MANAGER, CLASSIC HOMES

VOLUMES 1 AND 2 AND ENGINEERING CRITERIA MANUAL AS AMENDED.

PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

FOR AND ON BEHALF OF ELITE PROPERTIES OF AMERICA, INC.

PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

**APPROVALS:** 

OF TRANSPORTATION,

OF TRANSPORTATION.

NORTH PROGRAM

OF TRANSPORTATION.

PERMIT REVIEW:

ELITE PROPERTIES OF AMERICA, INC.

619 N. CASCADE AVENUE, SUITE 200 COLORADO SPRINGS, COLORADO 80903

MR. STEVE SCHLOSSER, (719) 592-9333

MR. MARC A. WHORTON, P.E. (719) 785-2802

MS. MICHELLE REGALDO (719) 546-5416

1480 QUAIL LAKE LOOP ROAD, SUITE A

COLORADO SPRINGS, COLORADO 80906

2880 INTERNATIONAL CIRCLE, SUITE 110

MR. GILBERT LAFORCE (719) 520-7945

MR. GEORGE M. PETERSON, (719) 392-3491

COLORADO SPRINGS, COLORADO 80910

MR. ANDY STECKLEIN, P.E. (719) 227-3264

MR. GABRIEL COSYLEON (719) 562-5528 (ENV. MANAGER)

EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT

2/29/2024

MR. AMBER BILLINGS (719) 227-5725 (ROW MANAGER)

2138 FLYING HORSE CLUB DR. COLORADO SPRINGS, CO 80921

CLASSIC CONSULTING

REGION 2 - ACCESS

REGION 2 - ACCESS

5615 WILLS BOULEVARD

BLACKHILLS ENERGY

P.O. BOX 1600

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY.

SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE

CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY DIRECTLY CAUSED BY THE NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL

THESE PLANS HAVE BEEN REVIEWED BY TOWN OF MONUMENT STAFF AND FOUND TO BE IN GENERAL COMPLIANCE

WITH TOWN STANDARDS. IT IS THE RESPONSIBILITY OF THE SITE ENGINEER AND GENERAL CONTRACTOR TO ENSURE CONSTRUCTION IS IN COMPLIANCE WITH THESE PLANS AND IN CONFORMANCE WITH THE TOWN OF

MONUMENT ORDINANCES AND REGULATIONS. THE SPECIFICATIONS, STANDARDS, AND INTENT OF THE TOWN OF

VOLUMES 1 AND 2 SHALL PREVAIL IN ANY INSTANCES WHERE THESE PLANS DIFFER FROM THOSE REQUIREMENTS.

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED

AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL,

IN ACCORDANCE WITH WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN

THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE

THIS REVIEW IS ONLY FOR THE PROPOSED CONSTRUCTION IN HIGHWAY 105, EAST OF JACKSON CREEK PARKWAY.

MONUMENT ORDINANCES, REGULATIONS AND THE CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUALS

THE DEVELOPMENT SERVICES DEPARTMENT SHALL BE NOTIFIED IF ANY CHANGES NEED TO BE MADE.

THIS REVIEW IS ONLY FOR THE PROPOSED CONSTRUCTION ON JACKSON CREEK PARKWAY

DRAINAGE. GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN

CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND

37 WIDEFIELD BOULEVARD

WIDEFIELD, COLORADO 80911

MOUNTAIN VIEW ELECTRIC

LIMON, COLORADO 80828

U.S. WEST COMMUNICATIONS

(LOCATORS) (800) 922-1987

MR. LES ULFERS, (719) 495-2283

PUEBLO, COLORADO 81008

5615 WILLS BOULEVARD

PUEBLO, COLORADO 81008

REGION 2 - NORTH PROGRAM

COUNTY ENGINEER / ECM ADMINISTRATOR

AND/OR ACCURACY OF THIS DOCUMENT.

CALL UTILITY LOCATORS REVISED PER CDOT/COUNTY COMMENTS REVISED STORM PER MEETING WITH COUNTY CLASSIC CONSULTING ENGINEERS, AND SURVEYORS, LLC UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH

19 N. Cascade Avenue, Suite 200 orado Springs, Colorado 80903

- 2. A FULLY EXECUTED COMPLETE COPY OF THE ACCESS PERMITS AND A VALID NOTICE TO PROCEED TO CONSTRUCTION MUST BE ON THE JOB SITE WITH THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.
- 3. ANY ADDITIONAL PERMITS AND CLEARANCES REQUIRED BY OTHER FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES IS THE RESPONSIBILITY OF THE
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF HIGHWAY CONSTRUCTION. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND
- 5. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- 6. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- 7. FIVE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE OWNER/CONTRACTOR MUST CONTACT MR. RON YOUNG (719) 289-8718. CDOT ACCESS/TRAFFIC MANAGER, TO COORDINATE CONSTRUCTION.
- 8. WORK SHALL BEGIN AFTER 8:30 AM AND ALL EQUIPMENT SHALL BE OUT OF THE RIGHT-OF-WAY BEFORE 3:00 PM DURING SCHOOL HOURS/DAYS. NO WORK IS ALLOWED WITHIN THE HIGHWAY RIGHT-OF-WAY ON WEEKENDS OR STATE/FEDERAL HOLIDAYS. NO CONSTRUCTION VEHICLES SHALL BE PARKED, OR CONSTRUCTION MATERIALS STOCKPILED IN THE HIGHWAY RIGHT-OF-WAY OVERNIGHT. NO PRIVATE VEHICLES MAY BE PARKED IN THE HIGHWAY RIGHT-OF-WAY AT ANY TIME DURING CONSTRUCTION.
- 9. TWO WAY TRAFFIC SHALL BE MAINTAINED THROUGHOUT THE WORK AREA AT ALL
- 10. ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). THE SHEETING FOR THE SIGNS BE HIGHWAY INTENSITY SHEETING (ASTM TYPE IV RETRO REFLECTIVE SHEETING).
- 11. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES 1' FROM EXISTING EDGE OF PAVEMENT. NEW SURFACING FOR THE ACCESS AND THE HIGHWAY WIDENING SHALL BE A FULL DEPTH TOTAL OF 7 INCHES OF COMPACTED HOT MIX ASPHALT (HMA), GRAD-S(100), PG. 58-28 OR PG. 64-22 (WITH 1% LIME) PLACED IN 3 LIFTS, OVER 12 INCHES OF CEMENT TREATED SUBGRADE, OVER COMPACTED RANDOM FILL SUBGRADE WITH A MINIMUM R-VALUE OF 17 CONFIRMED WITH R2 MATERIALS.
- 12. PLACEMENT AND COMPACTION OF HOT MIX ASPHALT (HMA) SHALL COMPLY WITH SECTION 401 OF THE 2005 CDOT STANDARD SPECIFICATIONS AS WELL AS THE LATEST CDOT STANDARD SPECIAL PROVISIONS.
- 13. PLACEMENT AND COMPACTION OF SUB-GRADE, EMBANKMENTS, AND BACKFILLS SHALL COMPLY WITH SECTION 203 OF THE CDOT STANDARD SPECIFICATIONS AS WELL AS THE LATEST CDOT STANDARD SPECIAL PROVISIONS.
- 14. SOIL PREPARATION INCLUDING TOPSOIL, SEEDING, AND MULCHING IS REQUIRED WITHIN THE HIGHWAY RIGHT-OF-WAY ON ALL DISTURBED AREAS NOT SURFACED AND THOSE AREAS BEYOND THE HIGHWAY THAT MAY ERODE AND SEND DEBRIS INTO THE HIGHWAY RIGHT-OF-WAY.
- 15. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- 16. WIDENED AREAS OF THE ROADWAY SHALL BE A MINIMUM OF 20-YEAR DESIGN LIFE.
- 17. OVERLAY OF EXISTING PAVEMENT SHALL ALSO BE A MINIMUM OF 20-YEAR DESIGN LIFE TO AVOID DIFFERING MAINTENANCE ISSUES BETWEEN THE OVERLAY SECTION AN THE NEW PAVEMENT WIDENING.
- 18. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. COST OF WATER SHALL BE INCLUDED IN THE WORK.
- 19. THIS DESIGN IS IN FULL COMPLIANCE WITH SECTION 4 OF THE STATE HIGHWAY ACCESS CODE, 2 CCR 601-1 EXCEPT FOR THE FOLLOWING APPROVED VARIANCES: NONE
- 20. THIS DESIGN IS IN FULL COMPLIANCE WITH TITLE II ADA ACCESSIBILITY REQUIREMENTS EXCEPT FOR THE FOLLOWING APPROVED VARIANCES: NONE

#### **COLORADO DEPARTMENT OF TRANSPORTATION:**

CDOT PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH THE CDOT DESIGN CRITERIA. CDOT IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. CDOT THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

#### EL PASO COUNTY TRAFFIC SIGNAL NOTES

- 1. THE CONTRACTOR HALL PROVIDE, FOR REVIEW, BY THE ENGINEER, A COMPLETE TRAFFIC SIGNAL MATERIAL SUBMITTAL PACKAGE THAT CONTAINS, ALL OF THE PROPOSED TRAFFIC SIGNAL EQUIPMENT, INCLUDING MATERIAL SPECIFICATIONS AND DESCRIPTIONS THAT WILL BE NECESSARY TO COMPLETE THE TRAFFIC SIGNAL WORK. THE CONTRACTOR SHALL ALLOW FOR A MINIMUM THREE-WEEK SUBMITTAL REVIEW PERIOD AND SHALL NOT ORDER ANY SIGNAL EQUIPMENT UNTIL AFTER A REVIEW OF ALL SUBMITTALS HAVE BEEN COMPLETED BY THE ENGINEER AND VERIFIED BY THE CONTRACTOR.
- FUNCTIONAL AND OPERATIONAL RESPONSIBILITY FOR ALL NEWLY INSTALLED AND EXISTING TRAFFIC SIGNAL EQUIPMENT WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL CONSIDER THIS WORK INCIDENTAL TO THE OVERALL WORK BEING PERFORMED AND SHALL BE INCLUDED AS PART OF THE PROJECT.
- 3. SEE COLORADO DEPARTMENT OF TRANSPORTATION SIGNAL DETAILS FOR CONSTRUCTION/ INSTALLATION DETAILS NOT SHOWN ON THESE PLANS.
- 4. ALL SIGNAL EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE SALVAGED AND BECOME THE PROPERTY OF EL PASO COUNTY. THE SALVAGED EQUIPMENT SHALL BE DELIVERED AS DIRECTED BY THE ENGINEER. DELIVERY OF THE SIGNAL EQUIPMENT WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE WORK FOR REMOVAL OF TRAFFIC SIGNAL
- 5. OVERHEAD STREET NAME SIGN DESIGN AND LAYOUT INFORMATION SHALL BE PER THE STREET MANE SIGN DETAIL CONTAINED IN THE PROJECT PLAN.
- 6. TRAFFIC SIGNS MOUNTED ON SIGNAL POLES, MAST ARMS, AND PEDESTALS SHALL BE MOUNTED USING BANDING, ALUMINUM CHANNELS, AND BACKING ZEES PER APPLICABLE COOT STANDARD PLANS, OR SIMILAR RIGID SIGN BRACING MOUNTING ASSEMBLY.
- 7. ONCE THE PROFESSIONAL ENGINEERING CONSULTANT HAS COMPLETED ALL TRAFFIC SIGNAL CONTROLLER TIMING DEVELOPMENT AND CONTROLLER PROGRAMMING, THE CONTRACTOR WILL COORDINATE THE DELIVERY DATE OF THE PROGRAMMED TRAFFIC SIGNAL CONTROLLER FOR REVIEW OF EPC DEPARTMENT OF PUBLIC WORKS, HIGHWAY DIVISION SIGNAL SHOP AND ALLOW FOR A MINIMUM TWO-WEEK REVIEW PERIOD, AFTER WHICH TIME THE CONTRACTOR MAY MAKE ARRANGEMENTS FOR PICKING UP THE SIGNAL CONTROLLER.
- 8. CONTROLLER CABINET SHALL BE FURNISHED WITH A "BEST" DOOR LOCK KIT LOCK AND CODE IS "BEST": 5L6R LEFT AND
- 9. CONDUIT IS TO BE REPLACED IN THE EVENT THAT EXISTING CONDUIT IS DAMAGED AND AS DIRECTED BY THE ENGINEER.
- 10. ELECTRICAL SERVICE DISCONNECT BOXES SHALL BE LOCKABLE AND WEATHER PROOF WITH NEMA TYPE CIRCUIT BREAKER. ENCLOSURES SHALL BE PROVIDED AT THE CONNECTION POINT OF EACH POWER SOURCE OR POINT OF SERVICE AS DIRECTED BY THE ENGINEER.
- 11. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING REQUIRED TO COMPLETE THE INSTALLATION AND ESTABLISH THE FUNCTIONALITY OF ALL TRAFFIC SIGNAL EQUIPMENT.
- 12. ALL INCIDENTAL ITEMS NOT SHOWN IN THE SUMMARY OF APPROXIMATE QUANTITIES OR TABULATION OF SIGNAL EQUIPMENT SHALL BE CONSIDERED TO BE INCLUDED AS PART OF THE TRAFFIC SIGNAL INSTALLATION AND WILL NOT BE MEASURED AND PAID FOR SEPARATELY. ALL QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ECESSARY TO COMPLETE THE CONSTRUCTION SHOWN ON THESE PLANS.
- 13. THE SIGNAL SHALL NOT BE TURNED ON OR STARTED UNTIL DIRECTED BY THE ENGINEER. PRIOR TO SIGNAL ACTIVATION, THE ENGINEER SHALL CONFIRM THAT THE APPROPRIATE PAVEMENT MARKINGS AND SIGNING ARE IN PLACE AND THAT ALL WORK NECESSARY FOR PROPER SIGNAL OPERATION HAS BEEN COMPLETED.
- 14. THE SIGNAL CONTROLLER SHALL BE A MACCAIN 2070 FLEX ATC CONTROLLER AND THE CONFLICT MONITOR SHALL BE MODEL 2010 ECLIP W/ ETHERNET PORT (EDI). THE CONTROLLER CABINET SHALL BE A COOT SPECIFICATION MODEL 332D WITH BATTERY BACKUP AND AUX RACK AND SHALL CONTAIN ANTI-GRAFFITI SILVER FINISH COATING. THE CABINET SHALL BE MOUNTED ON A CAST-IN-PLACE CONCRETE FOUNDATION PER APPLICABLE COOT'S STANDARDS STANDARD PLAN AND THE CABINET SHALL BE POSITIONED SUCH THAT, WITH THE FRONT DOOR OPEN, BOTH THE CONTROLLER DISPLAY AND THE
- 15. LUMINAIRES SHALL CONSIST OF AN ASSEMBLY THAT UTILIZES LEDS AS THE LIGHT SOURCE. IN ADDITION, A COMPLETE LUMINAIRE SHALL CONSIST OF A HOUSING, LED ARRAY, AND ELECTRONIC DRIVER (POWER SUPPLY). ALL LUMINAIRES SHALL BE WIRED 120 VOLTS AC WITH MULTI-TAP HEADS. THE LED FIXTURE MUST HAVE A COLOR TEMPERATURE OF 4100K (+/-SOOK), MUST BE DESIGNED TO OPERATE AT A TEMPERATURE RANGE OF -40"F TO 105"F (-40"C TO 40° C), AND PROVIDE A MINIMUM OF 70,000 HOURS OF OPERATION. LUMINAIRES SHALL BE E-LIGHT-STAR LED STREET LIGHT, OR APPROVED EQUAL. THE CONTRACTOR SHALL PROVIDE A RECOMMENDATION FOR TYPE OF THE STREET LIGHT BASED ON THE CONSTRUCTION PLANS AND MANUFACTURER'S SPECIFICATIONS, TO BE APPROVED BY THE ENGINEER. THE FIXTURE MUST BE CAST ALUMINUM, PROVIDED WITH FUSING, SURGE SUPPRESSION AND MUST BE UL LISTED FOR WET LOCATIONS. THE FIXTURE MUST HAVE AN INTERNAL, WEATHER-TIGHT LED DRIVE. NO ACTIVE COOLING FEATURES (FANS, ETC. ) WILL BE ALLOWED. THE FINISHED SHALL MATCH THE EXTENSION ARM SHAFTS. THE LUMINAIRES WILL BE INSTALLED ON 15 FOOT EXTENSION ARM SHAFTS AT NOMINAL HEIGHT OF 40 FEET AND SHALL BE WELDED TO THE SIGNAL POLE PER CDOT TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS STANDARD PLAN S-614-40. LUMINAIRE ARM SHAFT SHALL BE IN ACCORDANCE WITH THE PROJECT
- 16. THE INTERSECTION DETECTION SYSTEM (MICROWAVE RADAR) CONTRACT ITEM INCLUDES DEVICE INSTALLATION (I.E., DETECTOR UNIT, HARDWARE, WIRING, PROCESSOR MODULE, ETC.), AND VERIFICATION OF SUCCESSFUL IN-FIELD DETECTION ZONE OPERATION BASED ON SEVERAL VEHICLE ACTUATIONS IN ALL DETECTION ZONES.
- 17. THE CONTRACTOR SHALL COORDINATE THE SCHEDULES OF THE CONTRACTED PROFESSIONAL ENGINEERING CONSULTANT AND THE EPC DEPARTMENT OF PUBLIC WORKS, HIGHWAY DIVISION TRAFFIC SIGNAL STAFF FOR SCHEDULING THE ON-SITE FIELD IMPLEMENTATION OF ALL TRAFFIC SIGNAL TIMING AND OPERATIONAL PROGRAMMING, VEHICLE DETECTION ZONE PLACEMENT, AND DETECTION EQUIPMENT POSITIONING. THIS WORK SHALL BE SCHEDULED NEAR THE END OF THE PROJECT, PRIOR TO PROJECT ACCEPTANCE, AND ONLY AFTER ALL FINAL PAVEMENT MARKINGS, SIGNING, AND TRAFFIC SIGNAL WORK HAS BEEN COMPLETED.
- 18. THE MICROWAVE RADAR DETECTION SYSTEM SHALL UTILIZE MS SEDCO INTERSECTOR TC-CK1-SBE WITH INTERFACE BOARD.
- 19. PEDESTRIAN SIGNAL HEAD INSTALLATION SHALL INCLUDE ALUMINUM AND POWDER COATED GLOSS BLACK SIGNAL HEAD WITH APPROVED LED COUNTDOWN DISPLAY, ALUMINUM OPEN VISOR WITH THE OUTSIDE POWDER COATED GLOSS BLACK, PUSHBUTTON, AND INSTRUCTIONAL R10-3E COUNTDOWN PEDESTRIAN ACTUATION SIGN. PUSHBUTTONS SHALL BE POLERA NAVIGATOR S 2-WIRE PUSH BUTTONS, SPECIFIED AS INS2 5 UN 1-B-BD-ES, OR APPROVED EQUIVALENT. CUSTOM MESSAGING SHALL NOT INTERFERE WITH TRADITIONAL NON-VISUAL FORMATS SPECIFIED IN 4E OF THE MUTCD AND SHALL ONLY PROVIDE ADDITIONAL INFORMATION AS DIRECTED BY THE ENGINEER.
- 20. ALL TRAFFIC SIGNAL POLES, MAST ARMS, PEDESTALS, AND LUMINAIRE ARMS SHALL HAVE A GLOSS BLACK COAT FINISH OVER HOT DIP GALVANIZED BASE COAT. INSTALLED IN ACCORDANCE WITH THE PAINT MANUFACTURER'S INSTRUCTIONS.
- 21. ALL SIGNAL POLE AND CONTROLLER LOCATIONS SHOWN ARE APPROXIMATE ONLY. MAST ARMS SHALL BE OF SUFFICIENT LENGTH AND DESIGN TO ALLOW PROPER PLACEMENT OF SIGNAL HEADS AND OVERHEAD SIGNING PER THE PLANS. ACTUAL LOCATIONS SHALL BE STAKED IN THE FIELD AND FIELD VERIFIED BY THE ENGINEER PRIOR TO DRILLING, EXCAVATION, AND ORDERING THE SIGNAL EQUIPMENT AND MAST ARMS. THE LOCATION OF EACH SIGNAL POLE FOUNDATION SHALL BE

POTHOLED PRIOR TO DRILLING TO CONFIRM WHETHER OR NOT ANY UTILITY CONFLICTS EXIST.

- 22. LATERAL OFFSETS FROM THE NEAR EDGE OF TRAFFIC SIGNAL POLES, PEDESTALS, AND CABINETS TO THE FACE OF CURB OR EDGE OF PAVED SHOULDER SHOULD BE AT LEAST SIX FEET, HOWEVER, A MINIMUM LATERAL OFFSET OF AT LEAST FOUR FEET MAY BE PROVIDED FOR CURB OFFSETS. IF NO PAVED SHOULDER EXISTS, A MINIMUM LATERAL OFFSET OF AT LEAST EIGHT FEET SHOULD BE PROVIDED FROM THE EDGE OF PAVEMENT FOR AN AUXILIARY LANE AND A MINIMUM LATERAL OFFSET OF AT LEAST TWELVE FEET SHOULD BE PROVIDED FROM THE EDGE OF PAVEMENT FOR A THROUGH LANE.
- 23. SHOULD THE CONTRACTOR ENCOUNTER WATER IN THE CAISSON, ANY DE-WATERING METHODS AND NECESSARY PERMITS SHALL BE INCLUDED IN THE COST OF THE CAISSON AND WILL BE CONSIDERED INCIDENTAL TO THE WORK.
- 24. ALL TRAFFIC SIGNAL COMPONENT PULL BOXES SHALL BE PRE-CAST HIGH DENSITY POLYMER CONCRETE (HDPC) MATERIAL WITH THE FOLLOWING SIZES: 36 INCH X 48 INCH X 18 INCH FOR THE PULL BOX ADJACENT TO THE CONTROLLER CABINET FOUNDATION AND 24 INCH X 36 INCH X 18 INCH FOR THE REMAINING PULL BOXES.
- 25. TRAFFIC PULL BOX LOCATIONS SHOWN IN THE PROJECT PLANS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER. PULL BOXES SHALL BE FLUSH WITH THE FINISHED GROUND SURFACE AND SHALL NOT BE PLACED IN AREAS THAT ARE SUSCEPTIBLE TO WATER RUNOFF OR STANDING WATER. CONDUIT RUNS BETWEEN PULL BOXES SHALL NOT EXCEED APPROXIMATELY 200 FEET AND PULL BOXES SHALL NOT BE LOCATED IN HANDICAP RAMPS, PEDESTRIAN LANDING AREAS, SIDEWALKS, PRIMARY SIDEWALK PATHS, OR ROADWAY PAVEMENT AREAS.

#### EL PASO COUNTY TRAFFIC SIGNAL NOTES (CONT.)

- 26. THE CONDUIT NUMBER AND SIZES FOR TYPICAL CONDUIT RUNS INCLUDE THE FOLLOWING FOR A PREEMINENT MAST ARM SIGNAL INSTALLATION.
  - A. BETWEEN THE SIGNAL POLE FOUNDATION AND ADJACENT SIGNAL POLE PULL BOX: TWO (2) 2 INCH AND ONE (1) 3 INCH.

C. BETWEEN THE CONTROLLER CABINET FOUNDATION AND ADJACENT PULL BOX: THREE (3) 2 INCH AND FOUR (4) 3 INCH.

- B. BETWEEN SIGNAL PULL BOXES: TWO (2) 2 INCH AND THREE (3) 3 INCH.
- D. BETWEEN THE SECONDARY SERVICE PEDESTAL METER FOUNDATION AND THE CONTROLLER CABINET FOUNDATION ONE (1) 2 INCH FOR THE ELECTRICAL SERVICE FEED.
- 27. ALL CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC AND ALL CONDUIT SHALL HAVE A PULL ROPE LEFT IN THEM WHEN CONSTRUCTION IS COMPLETED. ALL CONDUIT ENTERING THE CABINET FOUNDATION AND PULL BOXES SHALL HAVE BELL END STYLE COUPLINGS ON ALL CONDUIT ENDS.
- 28. ALL CONDUIT THAT IS DIRECTIONALLY BORED SHALL BE A MINIMUM OF THREE FEET BELOW THE EXISTING PAVEMENT. THIS WORK SHALL AVOID DISTURBING OR DAMAGING EXISTING FACILITIES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROMPT RECONSTRUCTION, ALTERATION, REPAIR OR MAINTENANCE OF HIGHWAY PROPERTY, AS NECESSARY, TO REPAIR DAMAGE CAUSED BY THE ACCOMMODATION OF THE UTILITY, AND TO RESTORE THE HIGHWAY TO PRE-EXISTING OR BETTER CONDITIONS.
- 29. ALL SIGNAL CABLE SHALL BE CONTINUOUS FROM CONNECTIONS MADE IN THE HANDHOLE COMPARTMENT OF THE SIGNAL POLE BASE TO THE TERMINAL COMPARTMENT OF THE CONTROLLER CABINET AND SHALL CONTAIN NO SPLICES. EACH SIGNAL HEAD SHALL CONTAIN SEPARATE AND CONTINUOUS SIGNAL CABLE FROM THE SIGNAL HEAD TO THE ABOVE GROUND HANDHOLE AT THE BASE OF THE SIGNAL POLE AND SHALL CONTAIN NO SPLICES.
- 30. A SEPARATE AND CONTINUOUS 21 CONDUCTOR CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE HANDHOLE AT EACH SIGNAL POLE AND SHALL CONTAIN NO SPLICES.
- 31. ALL SIGNS MOUNTED ON SIGNAL POLES, MAST ARMS, AND PEDESTALS SHALL BE MOUNTED USING BANDING ALUMINUM CHANNELS, AND BACKING ZEES PER CDOT TYPICAL POLE MOUNT SIGN INSTALLATIONS STANDARD PLAN S-614-20, OR SIMILAR RIGID SIGN BRACING MOUNTING ASSEMBLY. AS DIRECTED BY THE ENGINEER. MAST ARM SIGNS THAT REQUIRE Z-BRACKETS SHALL BE MOUNTED ON ASTRO-STYLE BRACKETS AND RISERS. THE COST OF ALL HARDWARE FITTINGS, TOOLS, AND EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION OF MAST ARM SIGNS WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- 32. ALL CONDUCTORS AND CABINET WIRING SHALL BE COLOR CODED AND PERMANENTLY TAGGED PER ENGINEER DIRECTION AND IN ACCORDANCE WITH THE SIGNAL PHASE NUMBERING AND DETECTION ZONE PHASE NUMBERING INFORMATION CONTAINED IN THE PROJECT PLANS.
- 33. ALL VEHICLE SIGNAL HEADS SHALL HAVE APPROVED 12 INCH LED INDICATIONS AND SHALL BE ALUMINUM WITH POWDER COATED GLOSS BLACK FINISH AND SHALL CONTAIN 12 INCH ALUMINUM TUNNEL VISORS WITH THE OUTSIDE POWDER COATED GLOSS BLACK. ALL VEHICLE SIGNAL HEADS SHALL HAVE ALUMINUM LOUVERED BACK PLATES WITH POWDER COATED GLOSS BLACK FINISH AND YELLOW RETRO REFLECTIVE BORDER. MAST ARM SIGNAL HEADS SHALL USE ASTRO-TYPE MOUNTING ASSEMBLIES AND SHALL BE INSTALLED APPROXIMATELY LEVEL WITH ONE ANOTHER AT A 17 TO 19 FOOT VERTICAL CLEARANCE ABOVE THE HIGH POINT OF THE PAVEMENT GRADE.
- 33. FINAL VEHICLE DIRECTION ZONE PLACEMENT AND DIMENSIONS, IN ACCORDANCE WITH THE PROJECT PLAN, AND FINAL SIGNAL PROGRAMMING SHALL BE COMPLETED IN THE FIELD AND THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR COORDINATING AND SCHEDULING THIS WORK.
- 34. ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS THAT HAVE NOT BEEN PLACED IN SERVICE SHALL BE COVERED WITH PREFABRICATED WEATHER RESISTANT NYLON FORM FITTING SIGNAL FACE COVER MATERIAL. THE SIGNAL FACE SHALL REMAIN COMPLETELY COVERED UNTIL THE SIGNAL HEAD IS PLACED IN SERVICE AND IS FULLY FUNCTIONAL AND
- 35. ALL DETECTION EQUIPMENT, DETECTION ZONES, AND SIGNAL TIMING OPERATION SHALL BE CONFIRMED IN THE FIELD BY THE PROFESSIONAL ENGINEERING CONSULTANT TO BE ACHIEVING SATISFACTORY TRAFFIC SIGNAL OPERATION.
- 36. COMMUNICATION SYSTEM SHALL BE A DYMEC ETHERNET SWITCH KY-3170EMX AND CELLULAR MODEM MICROHARD BULLET LTE, WITH CITEL SURGE SUPPRESSION ON ALL THESE COMPONENTS. 38. THE CONTRACTED PROFESSIONAL ENGINEERING TRAFFIC SIGNAL TIMING, CONTROLLER PROGRAMMING AND OPERATION
- AND OVERALL TRAFFIC SIGNAL OPERATIONAL CONSULTANT SERVICES THAT ARE TO BE RETAINED BY THE OWNER/ DEVELOPER/ DISTRICT SHALL INCLUDE, BUT NOT BE LIMITED TO: A. DEVELOPING ALL TRAFFIC SIGNAL TIMING AND ALL OPERATIONAL PARAMETERS FOR ACHIEVING ISOLATED,
- FULL-ACTUATED VEHICLE AND PEDESTRIAN INTERSECTION OPERATION AND, WHEN DOCUMENTED TO BE NECESSARY, COORDINATED SIGNAL SYSTEM TIMING PLAN OPERATION DURING VARIOUS TIMES OF THE DAY.
- B. PROGRAMMING ALL SIGNAL TIMING PARAMETERS INTO THE TRAFFIC SIGNAL CONTROLLER.
- C. FIELD IMPLEMENTING AND FINE-TUNING/ ADJUSTING ALL TRAFFIC SIGNAL TIMING PARAMETERS, INCLUDING FOLLOW-UP FIELD REVIEWS AS MAY BE NECESSARY.
- D. DEVELOPING, PROGRAMMING, FIELD IMPLEMENTING, AND FINE-TUNING ALL VEHICLE DETECTION ZONE DIMENSIONS, ZONE LOCATIONS, AND OPERATIONAL PARAMETERS.
- ALL OF THE AFOREMENTIONED CONTRACTED PROFESSIONAL ENGINEERING TRAFFIC SIGNAL OPERATIONAL CONSULTANT SERVICED DELIVERABLES SHALL BE CONSISTENT WITH NATIONAL PUBLICATIONS, INCLUDING BUT NOT LIMITED TO: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION/ REVISION, FHWA-HOP-08-024 "TRAFFIC SIGNAL TIMING MANUAL" (JUNE 2008), FHWA-HRT-04-091 "SIGNALIZED INTERSECTIONS: INFORMATIONS GUIDE" (AUGUST 2004), FHWA-HOP-06-006 "TRAFFIC CONTROL SYSTEMS HANDBOOK" (OCTOBER 2005). FHWA-DTFH61-01-C-00183 "SIGNAL TIMING PROCESS FINAL REPORT" (DECEMBER 2003), NCHRP REPORT 731 "GUIDELINES FOR TIMING YELLOW AND ALL-RED INTERVALS AT SIGNALIZED INTERSECTIONS" (2012), NCHRP REPORT 812 "SIGNAL TIMING MANUAL SECOND EDITION" (2015)

#### TOWN OF MONUMENT GENERAL NOTES:

- 1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE SITE WORK STANDARDS AND SPECIFICATIONS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TOWN OF MONUMENT MUNICIPAL CODE CRITERIA, AND APPLICABLE STANDARDS, AND APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS. THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE TOWN OF MONUMENT INSPECTOR. THE TOWN WILL ALSO INSPECT ALL WORK ON PRIVATE PROPERTY.
- 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. 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 THE 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.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE TOWN OF MONUMENT AND ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE TOWN INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- 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 THE MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
- 5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ALL PERMITS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- 7. 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 ENGINEER OF RECORD AND THE TOWN
- 8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- 9. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH M.U.T.C.D. TO THE TOWN OF MONUMENT 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.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS—BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, WHICH SHALL BE AVAILABLE TO THE TOWN OF MONUMENT DEVELOPMENT SERVICES DEPARTMENT INSPECTOR AT ALL TIMES. A REPRODUCIBLE SET OF AS-BUILT DRAWINGS MUST BE FURNISHED TO THE TOWN OF MONUMENT AT THE COMPLETION OF THE PROJECT, PRIOR TO FINAL APPROVAL BY THE TOWN AND AS A CONDITION FOR OBTAINING A CERTIFICATE OF OCCUPANCY.
- 13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE ENGINEER-OF-RECORD FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT
- 14. ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
- 15. THE CONTRACTOR SHALL SEQUENCE THE 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 WATER
- 16. NO SITE-RELATED IMPROVEMENTS MAY COMMENCE UNTIL A PRE-CONSTRUCTION MEETING IS HELD WITH THE TOWN OF MONUMENT AND ALL APPLICABLE PERMITS ARE OBTAINED.
- 17. THE DEVELOPER MUST IDENTIFY TO THE TOWN OF MONUMENT, PRIOR TO THE START OF ANY WORK, A QUALIFIED PLAN PERSON RESPONSIBLE FOR REVIEWING AND MONITORING ALL OPERATIONS IN ORDER TO PREVENT OR MINIMIZE THE IMPACT OF VIBRATION, NOISE, DUST, DRAINAGE, AND EROSION DAMAGE, AND OTHER FORMS OF POLLUTION ON NEARBY PROPERTY AND THE PUBLIC AS A WHOLE. THE DEVELOPER MUST WRITE TO THE OWNERS/OCCUPANTS OF PROPERTIES WITHIN AT LEAST 100 YARDS OF THE LIMITS OF THE WORKSITE, INFORMING THEM OF THE NATURE AND TIMING OF THE PROJECT AND PROVIDING CONTACT DETAILS FOR COMPLAINTS. THE TOWN, PRIOR TO THE COMMENCEMENT OF THE PROJECT, MUST APPROVE A COPY OF THE LETTER, MAILING LIST, AND DELIVERY DATES.
- 18. \*\*\*TOWN OF MONUMENT DISCLAIMER\*\*\* APPROVAL OF THESE SITE CONSTRUCTION PLANS PRIOR TO SITE PLAN APPROVAL DOES NOT IN ANY WAY OBLIGATE THE APPROVE SUBSEQUENT SUBMITTALS (I.E., SITE PLANS AND PLATS), AND THE TOWN HAS NO LIABILITY IN ANY FORM DUE TO

## **TOWN OF MONUMENT CONSTRUCTION NOTES:**

IN THE APPROVAL OF THESE SITE CONSTRUCTION PLANS.

LINES AND DRY UTILITIES

- 1. THE TOWN OF MONUMENT DESIGN CRITERIA & CONSTRUCTION SPECIFICATIONS MANUAL IS CONSIDERED PART OF THIS CONSTRUCTION DRAWING SET. THIS DESIGN AND PLAN SET IS INCOMPLETE WITHOUT THIS SPECIFICATIONS MANUAL. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS MANUAL AND BE FAMILIAR WITH IT FOR ALL CONSTRUCTION ACTIVITIES. A COPY CAN BE OBTAINED FROM THE TOWN BY CALLING (719)-499-3375.
- 2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN COMPLIANCE WITH THE TOWN CRITERIA AND CONSTRUCTION SPECIFICATION MANUAL AND TOWN OF MONUMENT MUNICIPAL CODE AND SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF MONUMENT
- 3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ACTUAL CONSTRUCTION. ALL EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION OF RECORD. THE CONTRACTOR IS RESPONSIBLE TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE EXISTING UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS AND AGREES TO ACCEPT FULL RESPONSIBILITY FOR FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
- 4. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING IMPROVEMENTS TO BE MET BY THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION. ANY SIGNIFICANT DISCREPANCIES FOUND BETWEEN THIS PLAN SET AND ACTUAL FIELD CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD FOR APPROPRIATE ACTION.
- 5. THE CONTRACTOR IS ADVISED THAT ALL EXISTING CONDITIONS OUTSIDE THE AREA OF WORK SHALL BE PROTECTED, IF DAMAGE OCCURS DURING CONSTRUCTION, IT WILL BE REPLACED IN THE ORIGINAL EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.
- 6. CONCRETE USED FOR CONSTRUCTION OF CURB AND GUTTER, SIDEWALK, AND CROSSPANS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. AFTER 28 DAYS.
- 7. ALL DISTURBED PAVEMENT EDGES WILL BE CUT TO NEAT LINES. THE THICKNESS OF ANY REPLACED ASPHALT AND BASE COURSE SHALL EQUAL OR EXCEED THE EXISTING THICKNESS.
- 8. WHEN ABUTTING NEW PAVEMENT TO EXISTING, OR TO REMOVE ANY BROKEN OR CRACKED PAVEMENT, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE TOWN INSPECTOR.
- 9. FINAL GRADING OF CURBS AND PAVING SHALL PROVIDE POSITIVE DRAINAGE. STANDING WATER POCKETS OR PONDING WILL
- 10. WHERE REMOVAL OF EXISTING CURB, GUTTER, SIDEWALK, OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB, GUTTER, AND SIDEWALK SHOWN AS EXISTING ON THESE PLANS IS NOT TO BE REMOVED UNLESS OTHERWISE NOTED. IF ANY OF THE EXISTING CURB, GUTTER, OR SIDEWALK IS DAMAGED BY THE CONTRACTOR, THEN IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND ROUTING DURING CONSTRUCTION, IF REQUIRED. TWO-WAY TRAFFIC SHALL BE MAINTAINED THROUGH THE WORK AREA AT ALL TIMES.
- 12. ALL DISTURBED AREAS THAT ARE TO REMAIN UNCOVERED FOR A PERIOD GREATER THAN 2 MONTHS SHALL BE RESEEDED AND WATERED UNTIL STABLE VEGETATION IS ESTABLISHED.
- 13. AT LEAST ONE SIGNED AND STAMPED SET OF THESE CONSTRUCTION DRAWINGS SHALL BE KEPT ON-SITE AT ALL TIMES.

(719)785-0799(Fax)

48 HOURS BEFORE YOU DIG, NO. REVISION CALL UTILITY LOCATORS

UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND

PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

DATE REVISED PER CDOT/COUNTY COMMENTS 5/12/23 MARC A. WHORTO

REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

CONSULTING

619 N. Cascade Avenue. Suite 200

olorado Springs, Colorado 80903

STATE HIGHWAY 105 / JACKSON CREEK PKWY. - PHASE 2 CONSTRUCTION PLANS

ROADWAY IMPROVEMENT PLANS STANDARD NOTES

DESIGNED BY | PRA | SCALE DATE 02-23-23 RAWN BY PRA (H) 1"= VARIES SHEET 2 OF 26 CHECKED BY |(V) 1" = N/A | JOB NO.

2/19/2024

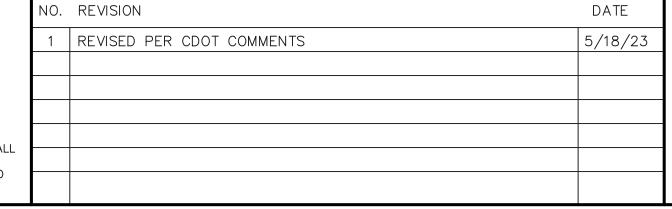
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NUMBER	TITLE	NUMBER	NUMBER	TITLE	<u>NUMBER</u>	NUMBER	<u>TIT</u>	<del></del>	NUMBER
■ M-100-1	STANDARD SYMBOLS (3 SHEETS)		<b>□</b> M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>		☐ S-612-1	DELINEATOR INSTALLATIONS (REVISED ON JANUARY 19, 2		171–178
■ M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)		<b>□</b> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)		<b>□</b> S-613-1	ROADWAY LIGHTING (6 SHE		<del>.179-186</del>
☐ M-203-1	APPROACH ROADS		■ M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS)		_ 0 0.0 1	(REVISED ON SEPTEMBER 3		
<ul><li>M-203-2</li><li>M-203-11</li></ul>	SUPERELEVATION CROWNED AND		■ M-606-15	(REVISED ON FEBRUARY 9, 2023)  GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER		□ S-613-2	ALTERNATIVE ROADWAY LIG <i>(NEW, ISSUED ON SEPTEMBE</i>		
<b>53</b> 14 007 40	DIVIDED HIGHWAYS (3 SHEETS)	47.44		(11 SHEETS) <i>(REVISED ON FEBRUARY 17, 2023)</i>		S-614-1	GROUND SIGN PLACEMENT (	2 SHEETS)	187-188
M-203-12	SUPERELEVATION STREETS (2 SHEETS)		<b>□</b> M-607-1	WIRE FENCES AND GATES (3 SHEETS)	116-118	<b>⊠</b> S-614-2	CLASS I SIGNS		189
<b>▼</b> M-206-1	(2 SHEETS)	15-16	<b>□</b> M-607-2	CHAIN LINK FENCE (3 SHEETS)	119–121	<b>⊠</b> S-614-3	CLASS II SIGNS		190
<b>□</b> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SH	EETS) 17-18	<b>□</b> M-607-3	BARRIER FENCE		<b>□</b> S-614-4	CLASS III SIGNS (3 SHEETS		
<b>▼</b> M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS)	19-29	<b>□</b> M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS)  (REVISED ON JULY 13, 2020)	<del>123-127</del>	<b>□</b> S-614-5	BREAK-AWAY SIGN SUPPORT FOR CLASS III SIGNS (2 SH		194–195
<b>□</b> M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31	<b>□</b> M-607-10	PICKET SNOW FENCE	128	<b>□</b> S-614-6	CONCRETE FOOTINGS AND S		196–197
<b>□</b> M-214-1	NURSERY STOCK DETAILS		■ M-607-15	RDAD CLOSURE GATE (9 SHEETS)			FOR CLASS III SIGNS (2 SH		
<b>⊠</b> M-216-1	SOIL RETENTION COVERING (2 SHEETS)		<b>™</b> M-608-1	CURB RAMPS (10 SHEETS)		<b>▼</b> S-614-8	TUBULAR STEEL SIGN SUPP (REVISED ON DECEMBER 29)		S)198-204
<b>□</b> M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS) (REVISED ON JANUARY 31, 2022)	<del>. 35-39-</del>	■ M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151	<del></del>	PEDESTRIAN PUSH BUTTON (SUPERSEDED ON JANUARY	POST ASSEMBLY (2 SH	-
<b>□</b> M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS (REVISED ON SEPTEMBER 6, 2022)	)	<ul><li>■ M-611-1</li><li>■ M-611-2</li></ul>	CATTLE GUARD (2 SHEETS)  DEER GUARD (2 SHEETS)		<b>□</b> S-614-10	MARKER ASSEMBLY INSTALL		
<b>□</b> M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING	40	■ M-614-1	RUMBLE STRIPS (3 SHEETS)		☐ S-614-11	MILEPOST SIGN DETAIL FOR		
■ M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLAC		■ M-614-2	SAND BARREL ARRAYS (2 SHEETS)		☐ S-614-12	STRUCTURE NUMBER INSTAL		
<b>—</b> W 301 1	(2 SHEETS)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	■ M-615-1	EMBANKMENT PROTECTOR TYPE 3		□ S-614-14	FLASHING BEACON AND SIGN		
<b>□</b> M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLAC	CE) 43-44	■ M-615-2	EMBANKMENT PROTECTOR TYPE 5		<b>⊠</b> S-614-20	TYPICAL POLE MOUNT SIGN		
<b>□</b> M-601-3	(2 SHEETS)  TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLAC	CE) 45-46	<ul><li>■ M-616-1</li><li>■ M-620-1</li></ul>	INVERTED SIPHONFIELD LABORATORY CLASS 1	163	<b>□</b> S-614-21	CONCRETE BARRIER SIGN PO (2 SHEETS) <i>(REVISED ON S</i>		216-217
<b>⊠</b> M-601-10	(2 SHEETS) HEADWALL FOR PIPES	17	■ M-620-1	FIELD LABORATORY CLASS 2 (2 SHEETS)		<b>⊠</b> S-614-22	TYPICAL MULTI-SIGN INSTA	LLATIONS	218
■ M-601-10	TYPE "S" SADDLE HEADWALLS FOR PIPE		■ M-620-11	FIELD OFFICE CLASS 1		<b>□</b> S-614-40	TYPICAL TRAFFIC SIGNAL 3		MS219-223
■ M-601-12	HEADWALLS AND PIPE OUTLET PAVING		■ M-620-12	FIELD OFFICE CLASS 2			65'-75' SINGLE MAST ARMS (REVISED ON JULY 22, 202		
■ M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SH		■ M-629-1	SURVEY MONUMENTS (2 SHEETS)		<b>⊠</b> S-614-40A	ALTERNATIVE TRAFFIC SIGN		224-227
■ M-603-1	METAL PIPE (4 SHEETS)						25'-55' SINGLE MAST ARMS	(4 SHEETS)	
<b>■</b> M-603-2	REINFORCED CONCRETE PIPE					<b>□</b> S-614-41	<i>(REVISED ON JULY 22, 202.</i> Temporary span wire sig		228-240
<b>□</b> M-603-3	PRECAST CONCRETE BOX CULVERT			COLORADO	Ш	S-614-42	CABINET FOUNDATION DETAIL		
<b>□</b> M-603-4	(REVISED ON SEPTEMBER 10, 2020)  CORRUGATED POLYETHYLENE PIPE (AASHTO M29			DEPARTMENT OF TRANSPORTATION		□ S-614-43	TRAFFIC LOOP AND MISCELL (8 SHEETS)		
	CORRUGATED POLYPROPYLENE PIPE (AASHTO M3 (REVISED ON MARCH 7, 2022)	30) (2 sheets)	M	I&S STANDARDS PLANS LIST	ll l	<b>□</b> S-614-44	PEDESTAL POLE SIGNALS (2	SHEETS)	253-254
<b>□</b> M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304	l)59			Ш	<b>⊠</b> S-614-45	PEDESTRIAN PUSH BUTTON		LS (6 SHEETS)
<b>□</b> M-603-6	STEEL REINFORCED POLYETHYLENERIBBED PIPE (AASHTO MP 20)	60		July 31, 2019		<b>□</b> S-614-50	(REVISED ON DECEMBER 3, STATIC SIGN MONOTUBE ST		255-266
<b>□</b> M-603-10	CONCRETE AND METAL END SECTIONS	61			Ш	<b>□</b> S-614-60	DYNAMIC SIGN MONOTUBE S	TRUCTURES (14 SHEETS	5)267-280
<b>□</b> M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRAT (3 SHEETS)			Revised on April 14, 2023		<b>⊠</b> S-627-1	PAVEMENT MARKINGS (11 SH (REVISED ON APRIL 14, 202		<del>281-289</del>
M-604-10  M-604-11	INLET, TYPE C		A1 1	OF THE M&S STANDARD PLANS, AS SUPPLEMENTE		<b>⊠</b> S-630-1	TRAFFIC CONTROLS FOR HIG (26 SHEETS) <i>(REVISED ON</i>		<del>290-313</del>
■ M-604-11	INLET, TYPE D			REVISED, APPLY TO THIS PROJECT WHEN USED		<b>⊠</b> S-630-2	BARRICADES, DRUMS, CONCRE	TE BARRIERS (TEMP)	314
■ M-604-13	CONCRETE INLET TYPE 13			DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.		<b>-</b> 5 670 7	AND VERTICAL PANELS		715
■ M-604-20	MANHOLES (3 SHEETS)			COLOTATION TICH ON CODOIDITANT TICH.		□ S-630-3 □ S-630-4	FLASHING BEACON (PORTABL STEEL SIGN SUPPORT (TEMP		
■ M-604-25	VANE GRATE INLET (5 SHEETS)		THE M&S STA	ANDARD PLANS USED TO DESIGN THIS PROJECT	ARE	□ S-630-4	DETAILS (2 SHEETS)  PORTABLE RUMBLE STRIPS		
<b>⊠</b> M-605-1	SUBSURFACE DRAINS	78		Y A MARKED BOX <b>-</b> , AND WILL BE ATTACHED T		□ S-630-6	EMERGENCY PULL-OFF AREA		
				OTHER M&S STANDARD PLANS ARE STILL ELIGIBL CTION IF APPROVED BY AN APPROPRIATE CDOT E		□ S-630-7	ROLLING ROADBLOCKS FOR (3 SHEETS)		
(90)	File Information	Sheet Revisions	$\overline{}$	olorado Department of Transportation		STANI	DARD	STANDARD	PLAN N
on Date: 07/31/ ner Initials: JBK	/19 Date:	Comments	.5	2829 West Howard Place				<b>STANDARDS</b>	PLANS I
Modification Date: er Initials: LTA				CDOT HQ, 3rd Floor Denver, CD 80204 Phone: 303-757-9021 FAX: 303-757-9868		PLANS	S LIST	Standard She	
		1		onstruction Engineering Services JBK					

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UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW

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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

37155

2/19/2024



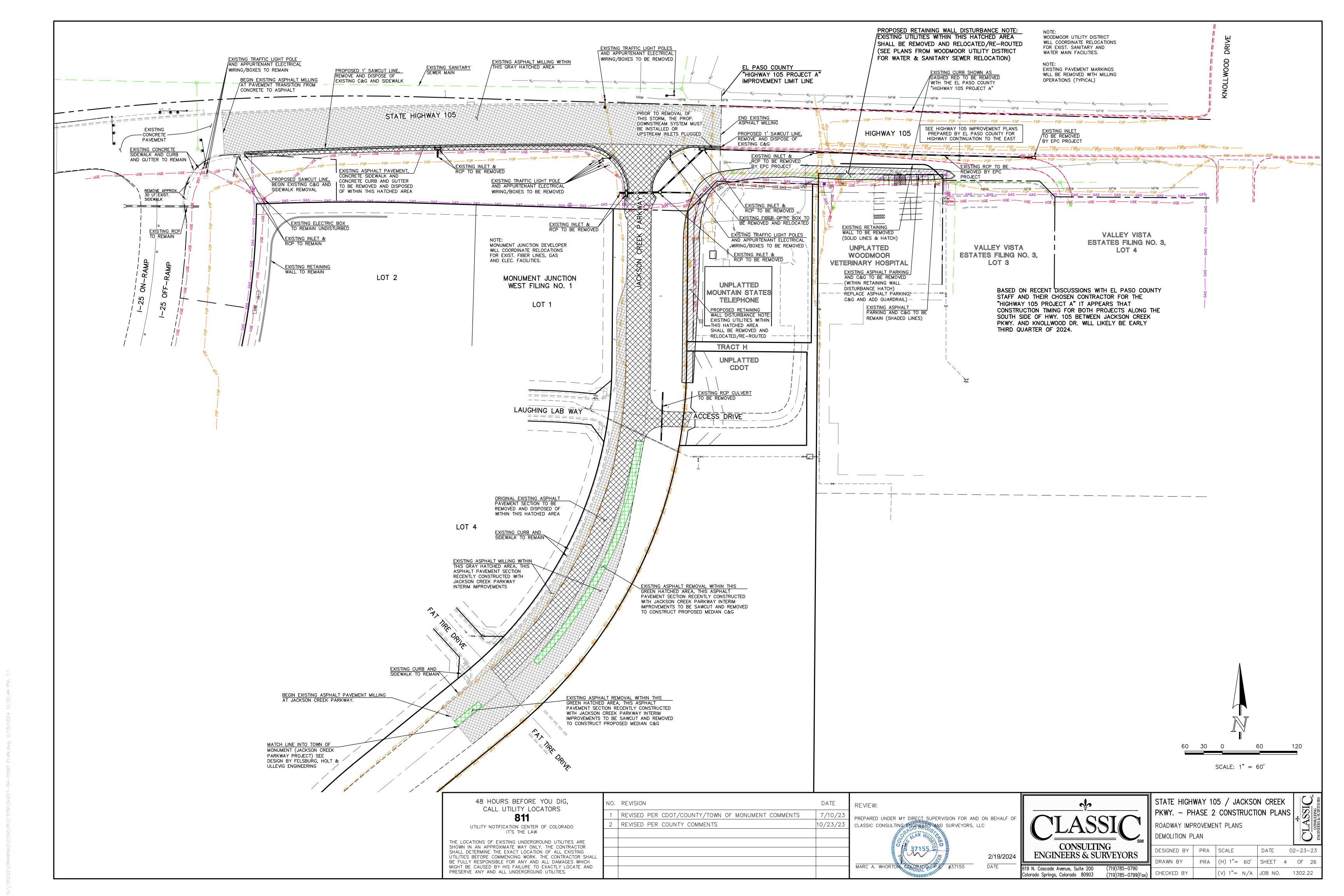
STATE HIGHWAY 105 / JACKSON CREEK
PRWY. - PHASE 2 CONSTRUCTION PLANS

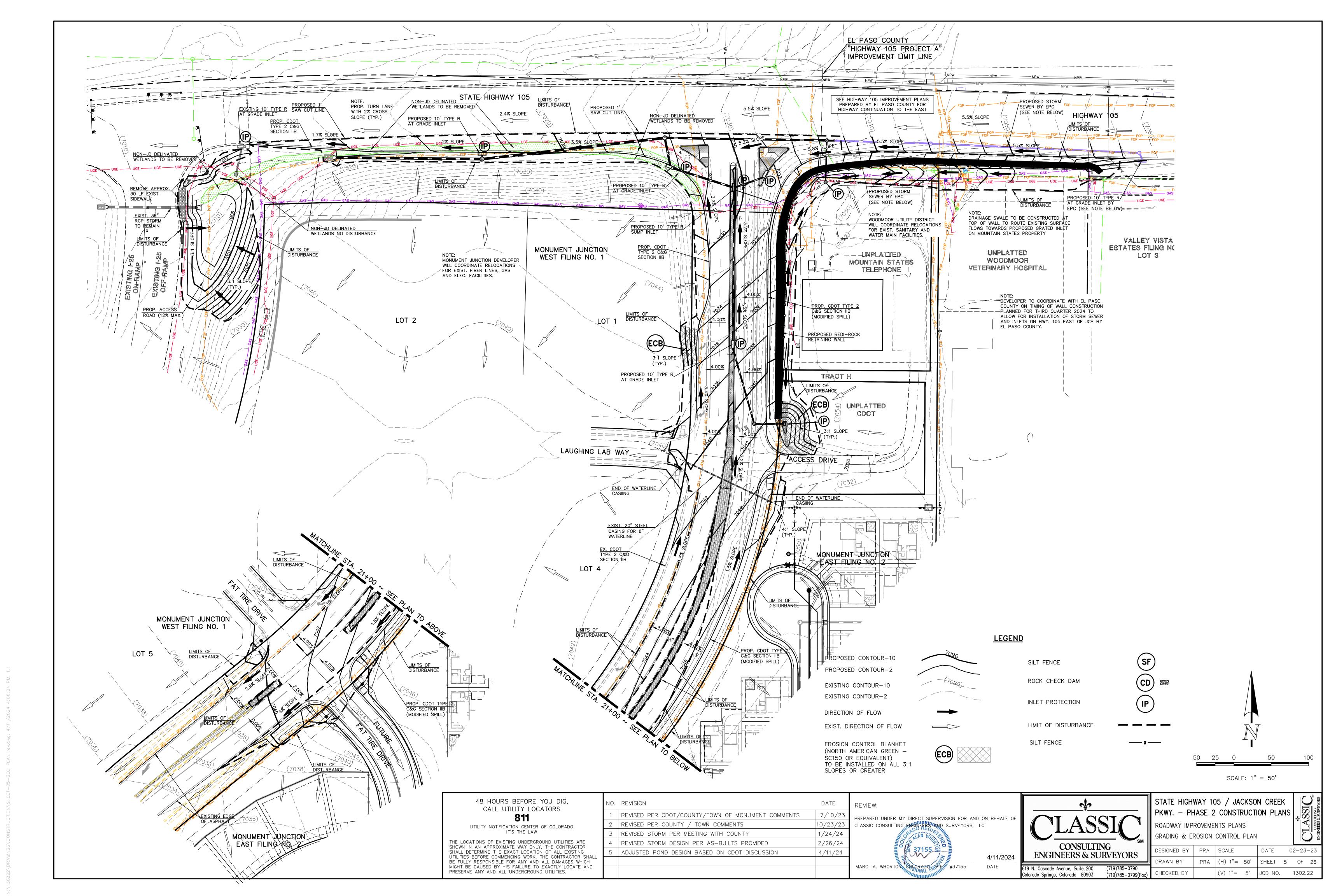
CDOT STANDARD PLAN SHEET

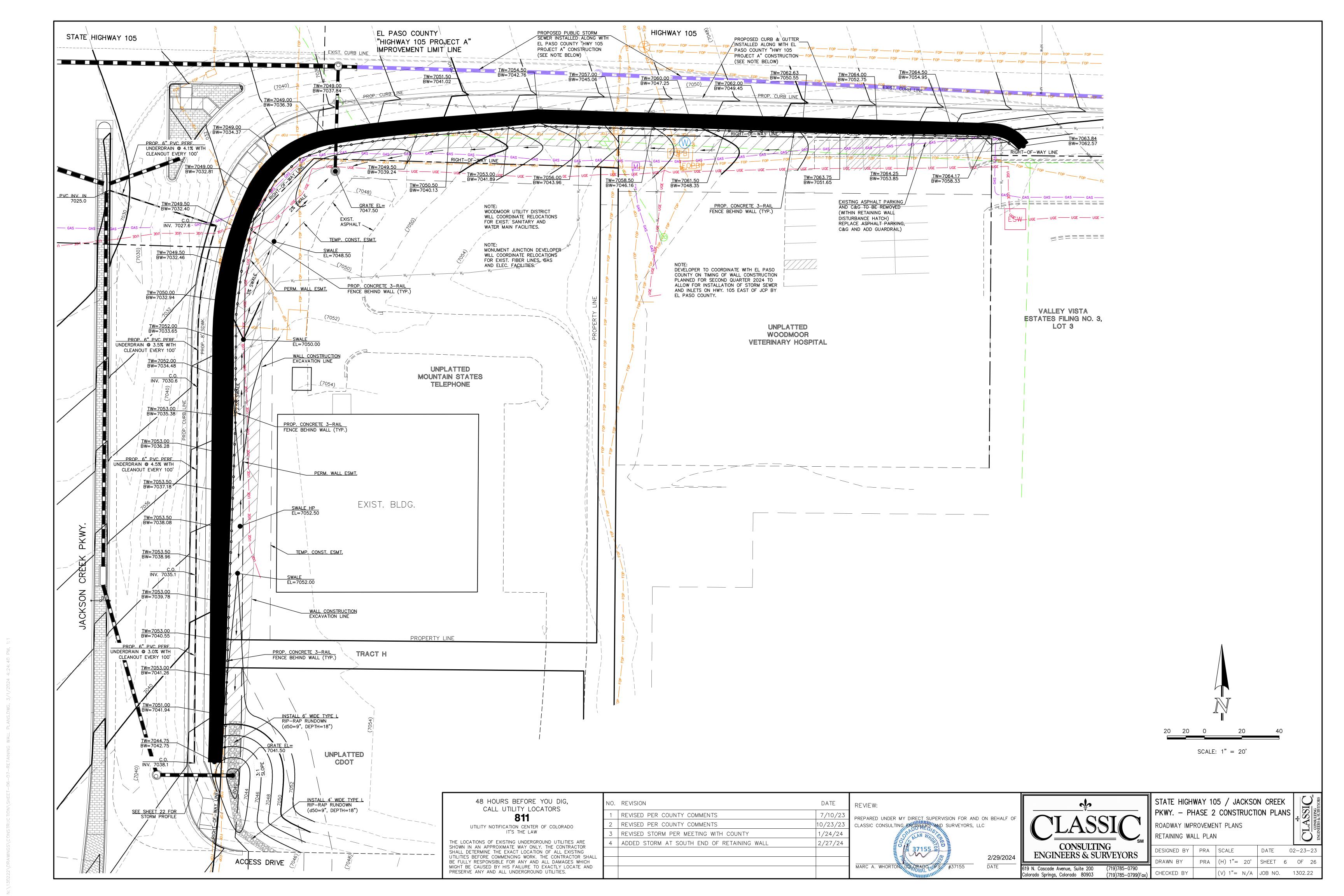
 CONSULTING
 DESIGNED BY
 PRA
 SCALE
 DATE
 02-23-23

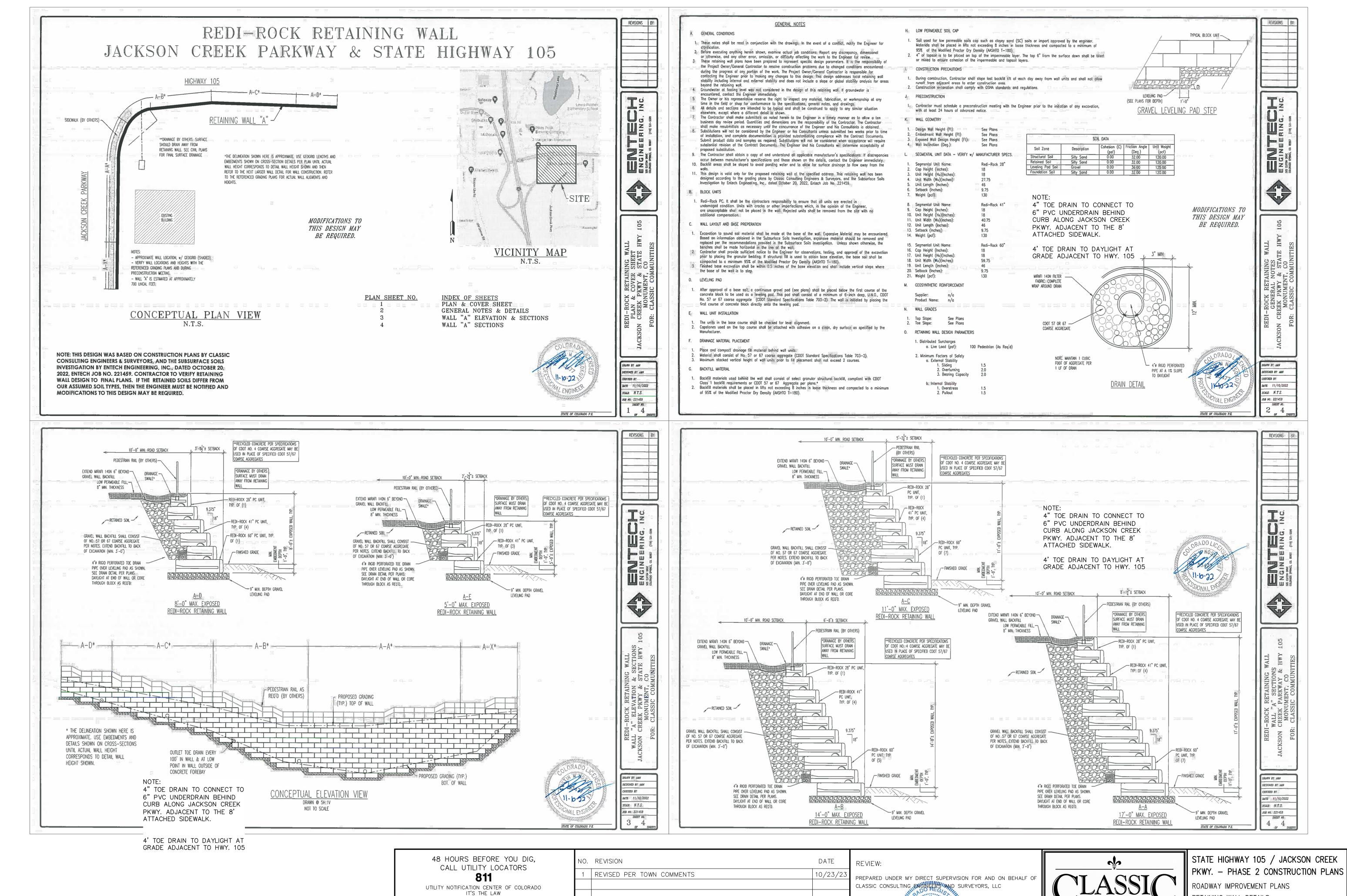
 DRAWN BY
 PRA
 (H) 1"= N/A
 SHEET 3 OF 26

 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903
 (719)785-0790 (719)785-0799(Fax)
 CHECKED BY
 (V) 1"= N/A JOB NO.
 1302.22









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PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

DATE PRA | (H) 1"= 50'

MARC. A. WHORTON, COLORADO CE

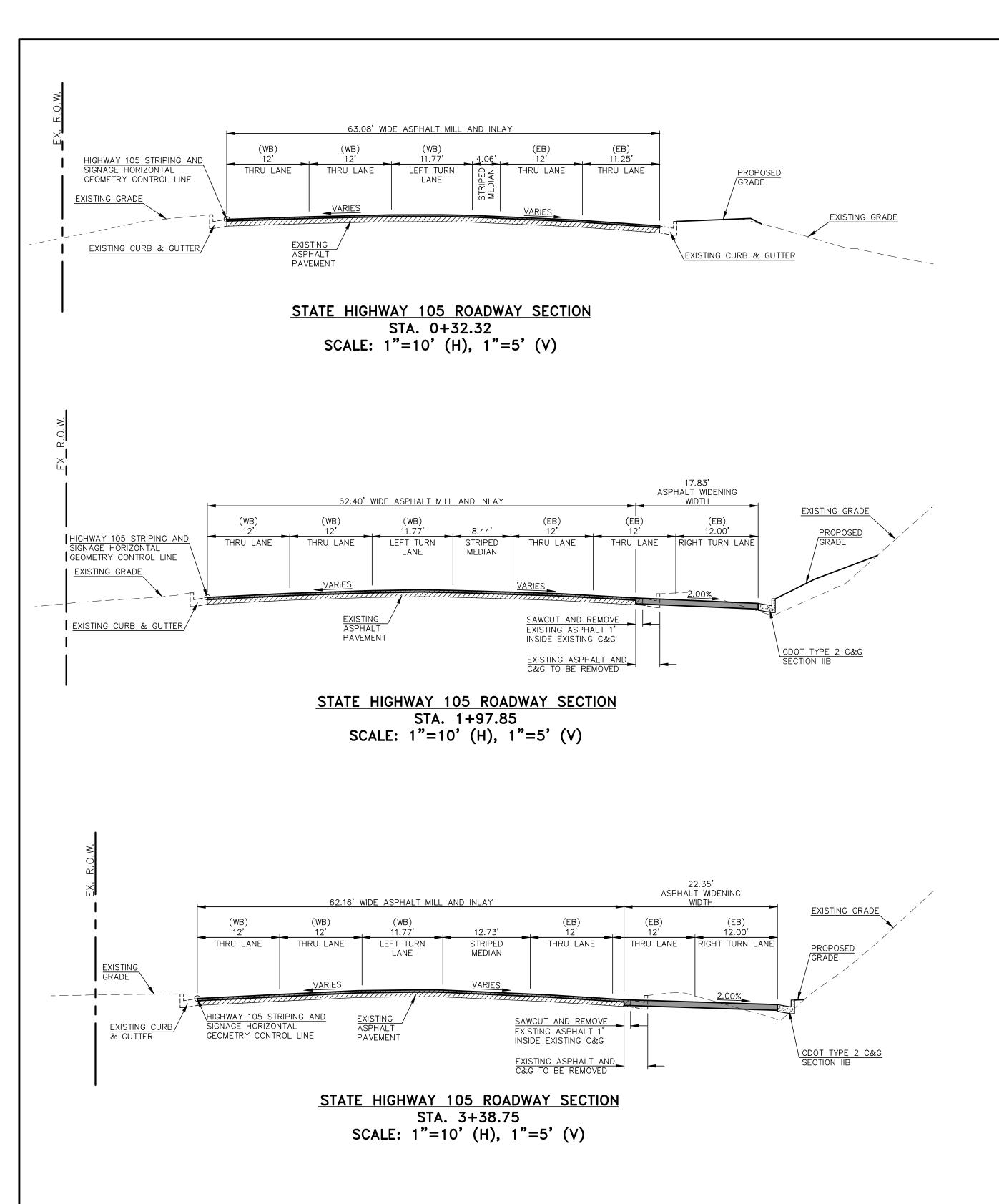
**CONSULTING ENGINEERS & SURVEYORS** 2/19/2024 619 N. Cascade Avenue, Suite 200

(719)785-0799(Fax)

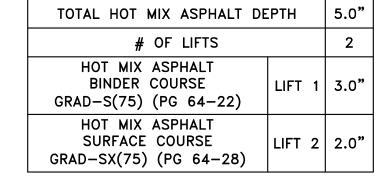
Colorado Springs, Colorado 80903

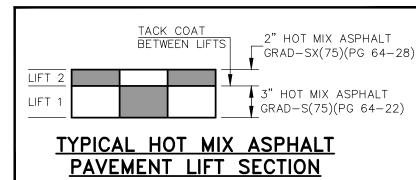
RETAINING WALL DETAILS

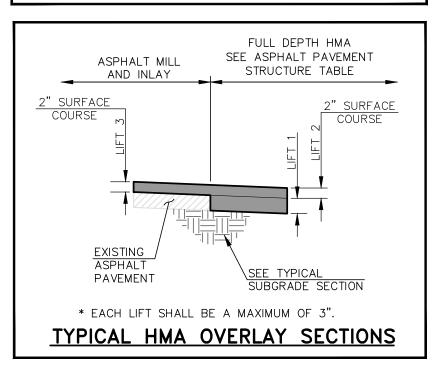
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# HOT MIX ASPHALT PAVEMENT STRUCTURE TABLE







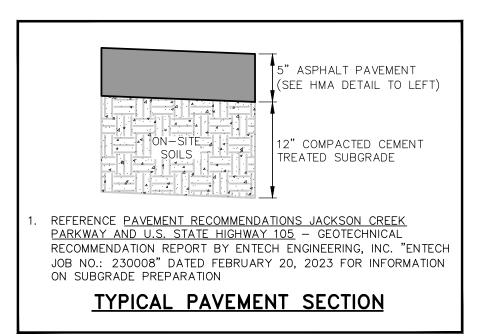
#### SUBGRADE NOTES:

SUBGRADE FOR CUT CONDITIONS: IF SUBGRADE IS R >/= 17, THEN PERFORM CEMENT TREATED SUBGRADE ON TOP 12 INCHES.

IF SUBGRADE IS R < 17, THEN OVER EXCAVATE 24 INCHES AND REPLACE WITH R >/= 17 MATERIAL AND PERFORM CEMENT TREATED SUBGRADE ON TOP 12 INCHES.
[RECONDITIONING IS SPECIFIED IN SECTION 306 OF THE CDOT STANDARD SPECIFICATIONS].

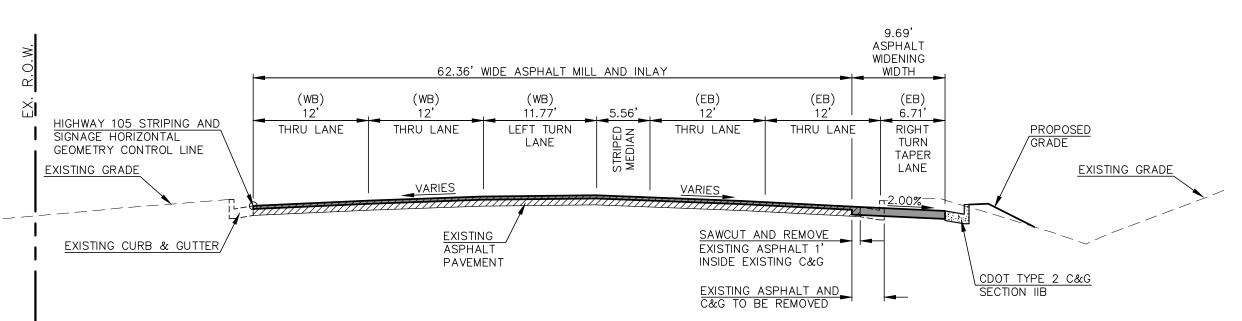
SUBGRADE FOR FILL CONDITIONS:

ALL FILL SHALL BE R >/= 17 MATERIAL WITH 12 INCHES OF CEMENT TREATED SUBGRADE ON TOP OF FILL MATERIAL.

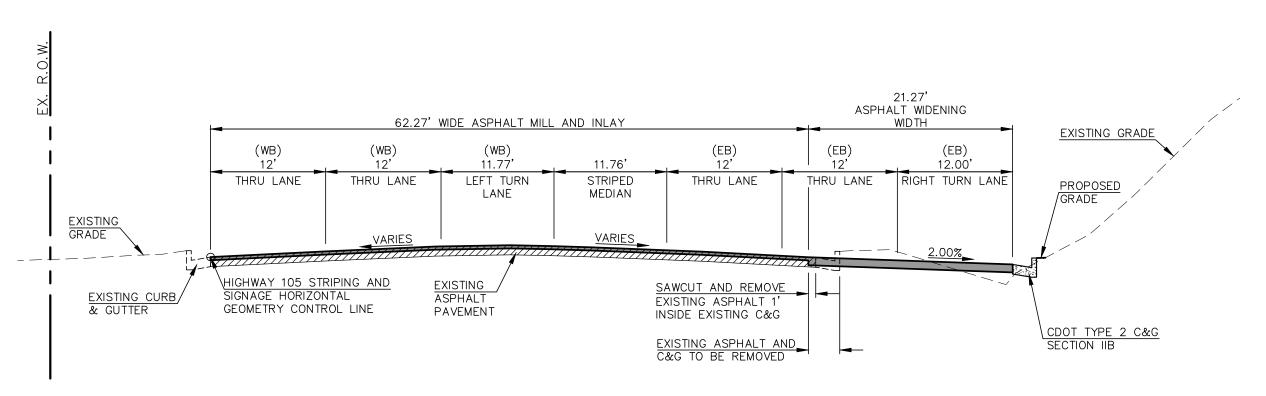


#### HIGHWAY 105 TYPICAL SECTION NOTES

- BREAK POINTS IN SLOPES SHALL BE ROUNDED BY THE CONTRACTOR FOR A PLEASING APPEARANCE DURING CONSTRUCTION.
- SEE HIGHWAY 105 IMPROVEMENT PLANS (SHEETS 9, 10 AND 17) FOR ADDITIONAL INFORMATION ON THE ROADWAY SECTION DIMENSIONS.
- 3. A TWO-INCH OVERLAY OF THE ROADWAY IN AREAS OF RECONSTRUCTION AND/OR RE-STRIPING IS REQUIRED. THE WIDTH OF THE OVERLAY SHALL ENCOMPASS ALL LANES CONTIGUOUS TO AREAS OF RECONSTRUCTION AND/OR RE-STRIPING.
- 4. SEE PAVEMENT RECOMMENDATIONS JACKSON CREEK PARKWAY AND U.S. STATE HIGHWAY 105 GEOTECHNICAL RECOMMENDATION REPORT BY ENTECH ENGINEERING, INC. "ENTECH JOB NO.: 230008" DATED FEBRUARY 20, 2023 FOR INFORMATION ON SUBGRADE PREPARATION.
- 5. THE CONTRACTOR SHALL VERIFY ALL SUBGRADE CONDITIONS IN CUT AREAS PRIOR TO PREPARATION AND PAVING.
- 6. FOR FILL CONDITIONS, THE CONTRACTOR SHALL VERIFY SUBGRADE CONDITIONS THROUGH COMPACTION AND DENSITY TESTING PRIOR TO PAVING.
- 7. SMOOTHNESS CATEGORY SHALL BE CATEGORY 2.



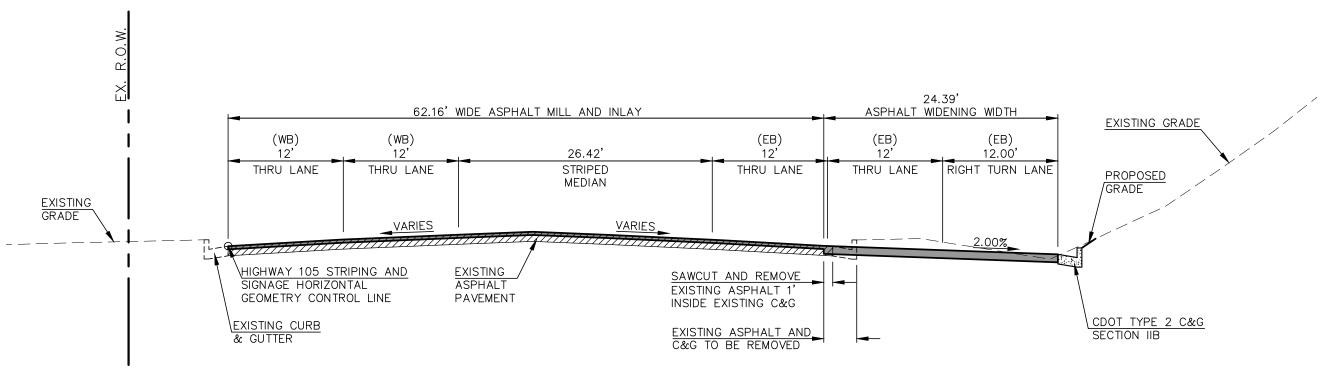
STATE HIGHWAY 105 ROADWAY SECTION
STA. 1+15.00
SCALE: 1"=10' (H), 1"=5' (V)



STATE HIGHWAY 105 ROADWAY SECTION

STA. 2+99.16

SCALE: 1"=10' (H), 1"=5' (V)



STATE HIGHWAY 105 ROADWAY SECTION
STA. 4+39.51
SCALE: 1"=10' (H), 1"=5' (V)

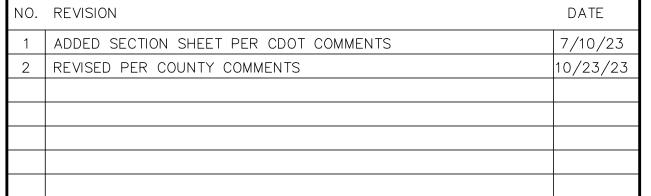
NOTE:
THE FOLLOWING ASPHALT SECTIONS APPLY ONLY TO AREAS WITHIN THE STATE HIGHWAY 105 RIGHT—OF—WAY.

THE FOLLOWING ASPHALT SECTIONS APPLY ONLY TO AREAS WITHIN STATE HIGHWAY 105 RIGHT—OF—WAY.

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UTILITY NOTIFICATION CENTER OF COLORADO
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REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

37155

2/19/2024

MARC A. WHORTON COLORADO OP B #37155

DATE



(719)785-0799(Fax)

619 N. Cascade Avenue, Suite 200

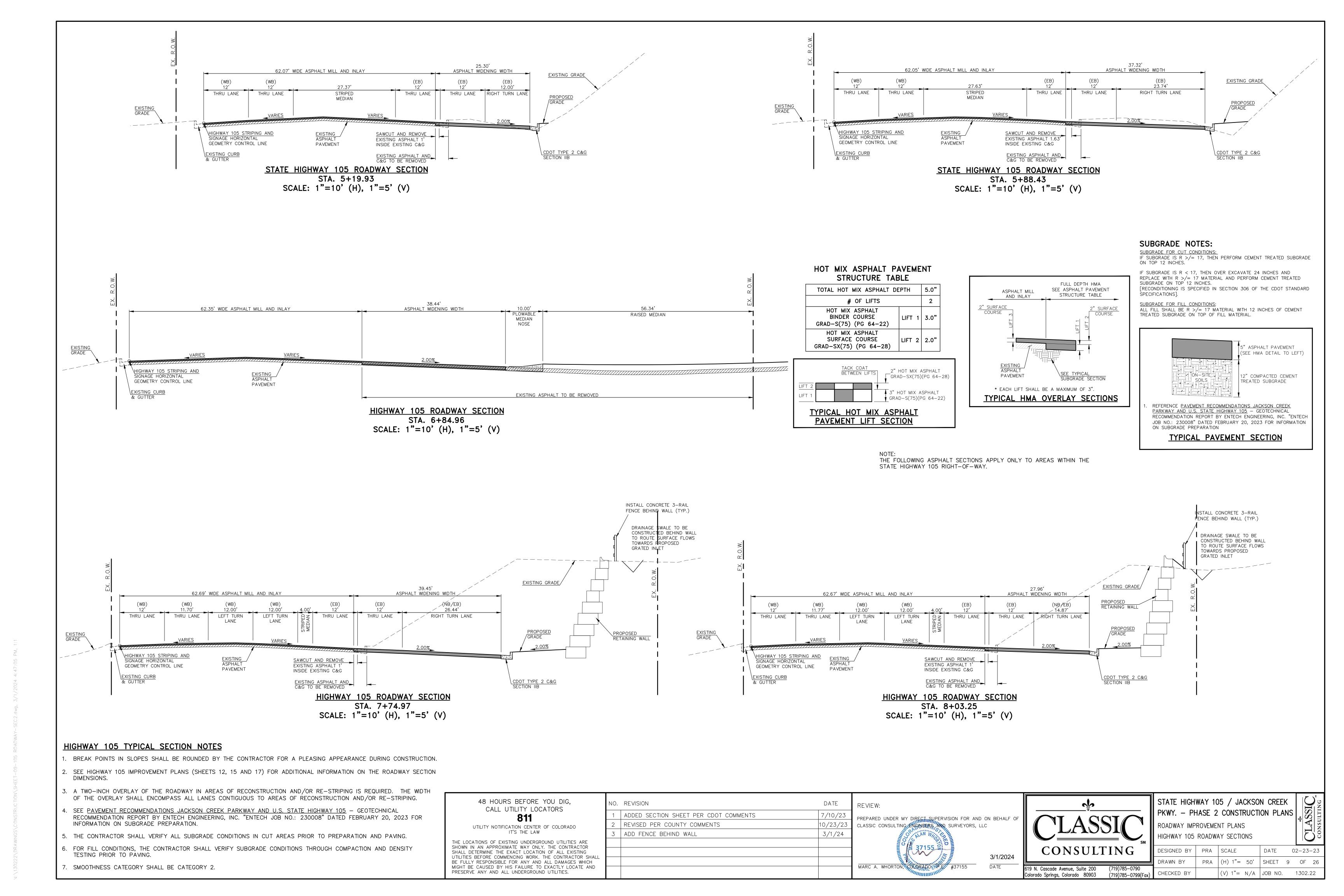
Colorado Springs, Colorado 80903

STATE HIGHWAY 105 / JACKSON CREEK
PKWY. — PHASE 2 CONSTRUCTION PLANS
ROADWAY IMPROVEMENT PLANS
HIGHWAY 105 ROADWAY SECTIONS

DESIGNED BY PRA SCALE DATE 02-23-23

DRAWN BY PRA (H) 1"= 50' SHEET 8 OF 26

CHECKED BY (V) 1"= N/A JOB NO. 1302.22



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NO. REVISION

REVISED PER JACOBS COMMENTS

REVISED PER COUNTY COMMENTS

3 | REVISED RAISED MEDIAN TREATMENT

DATE

10/23/23

2/16/24

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF

2/16/2024

CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

STATE HIGHWAY 105 / JACKSON CREEK

PKWY. - PHASE 2 CONSTRUCTION PLANS

JACKSON CREEK PKWY. ROADWAY SECTIONS

PRA SCALE

DATE 02-23-23

PRA | (H) 1"= 50' | SHEET 10 OF 26

(V) 1"= N/A JOB NO. 1302.22

ROADWAY IMPROVEMENT PLANS

DESIGNED BY

CHECKED BY

(719)785-0799(Fax)

CONSULTING

619 N. Cascade Avenue, Suite 200

Colorado Springs, Colorado 80903

OTO EST OF FITTION (MOLT CLICTEDIA) OF COMMANDE ENTRY OF SECTION O

SUBGRADE PREPARATION.

TESTING PRIOR TO PAVING.

7. SMOOTHNESS CATEGORY SHALL BE CATEGORY 2.

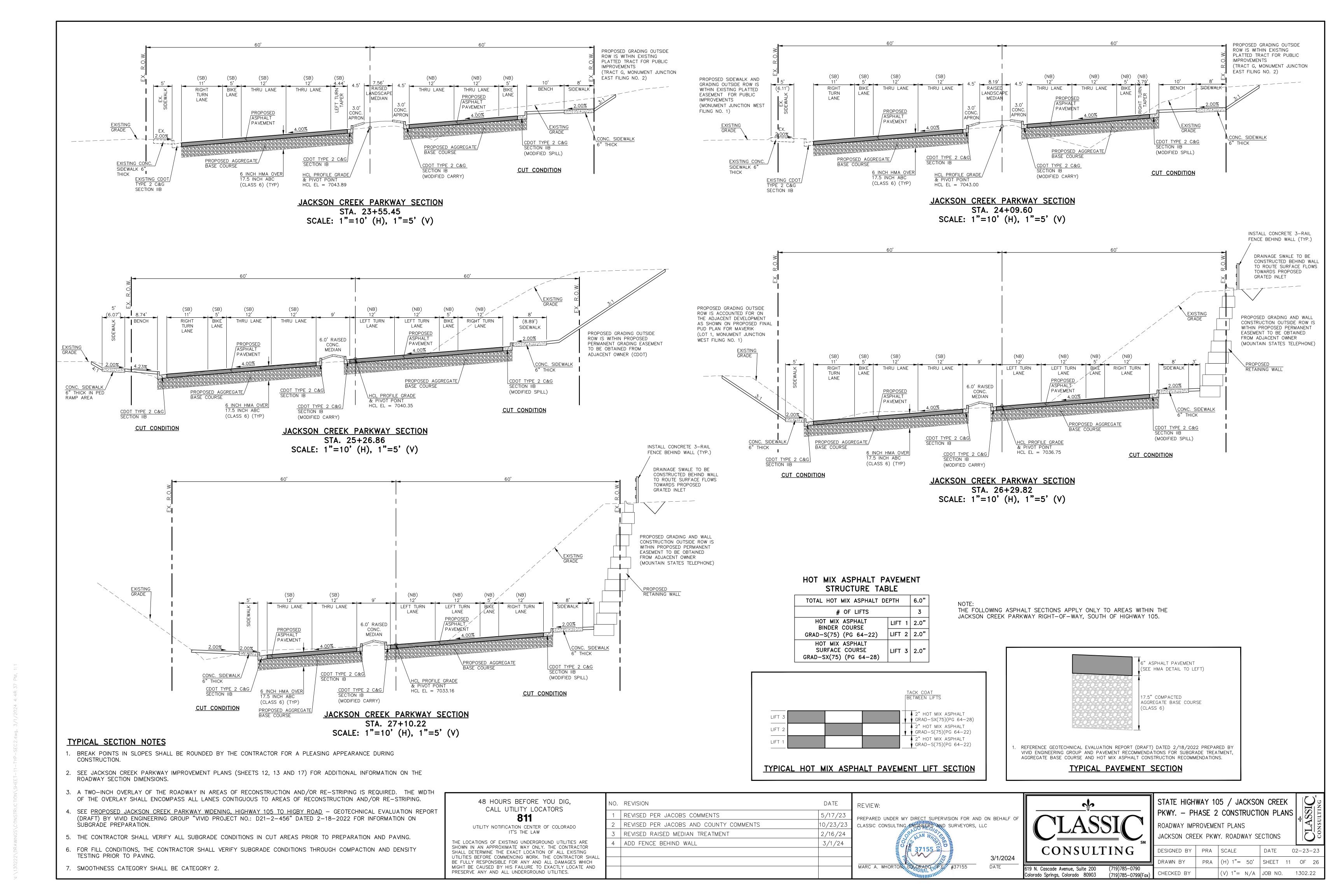
OF THE OVERLAY SHALL ENCOMPASS ALL LANES CONTIGUOUS TO AREAS OF RECONSTRUCTION AND/OR RE-STRIPING.

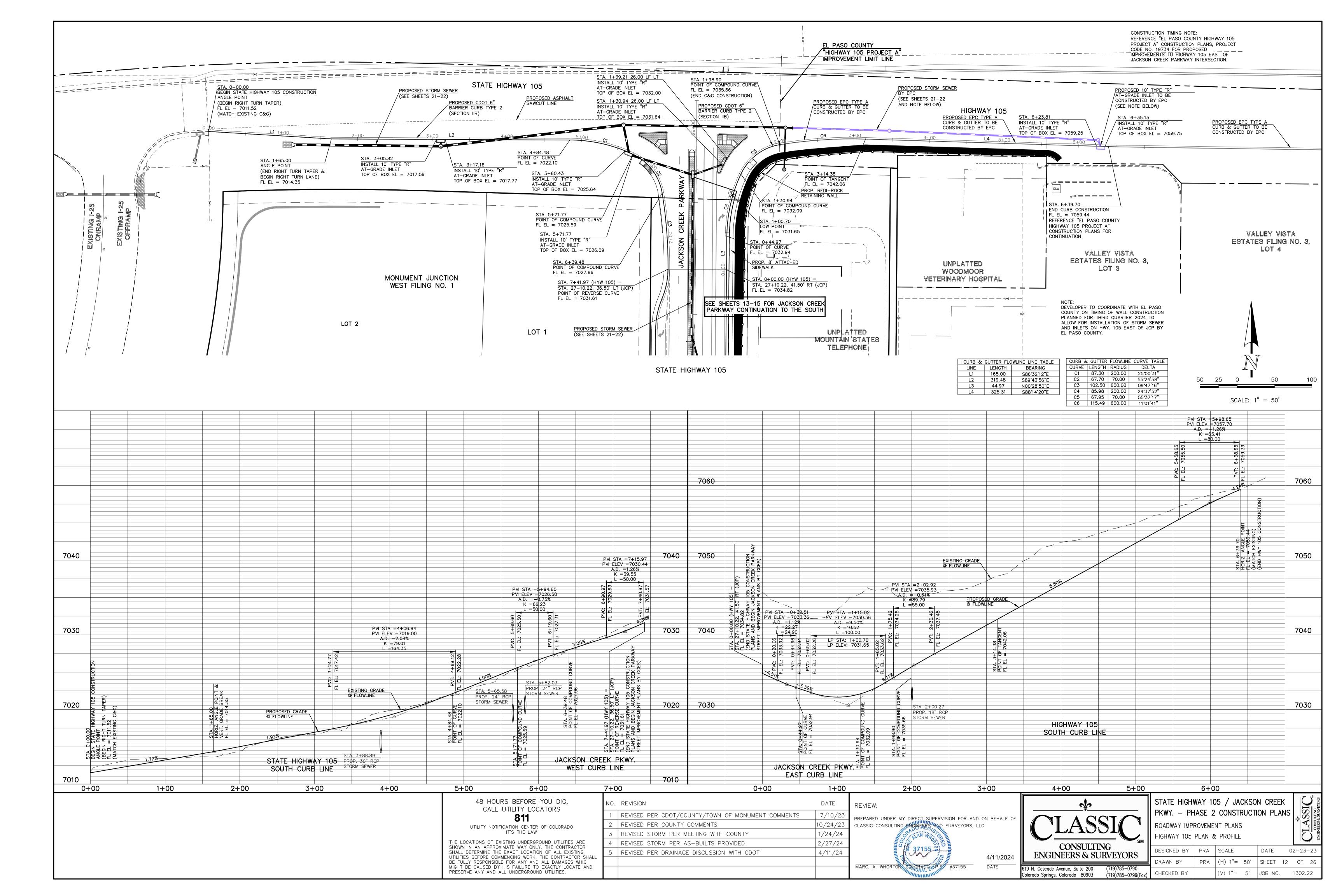
(DRAFT) BY VIVID ENGINEERING GROUP "VIVID PROJECT NO.: D21-2-456" DATED 2-18-2022 FOR INFORMATION ON

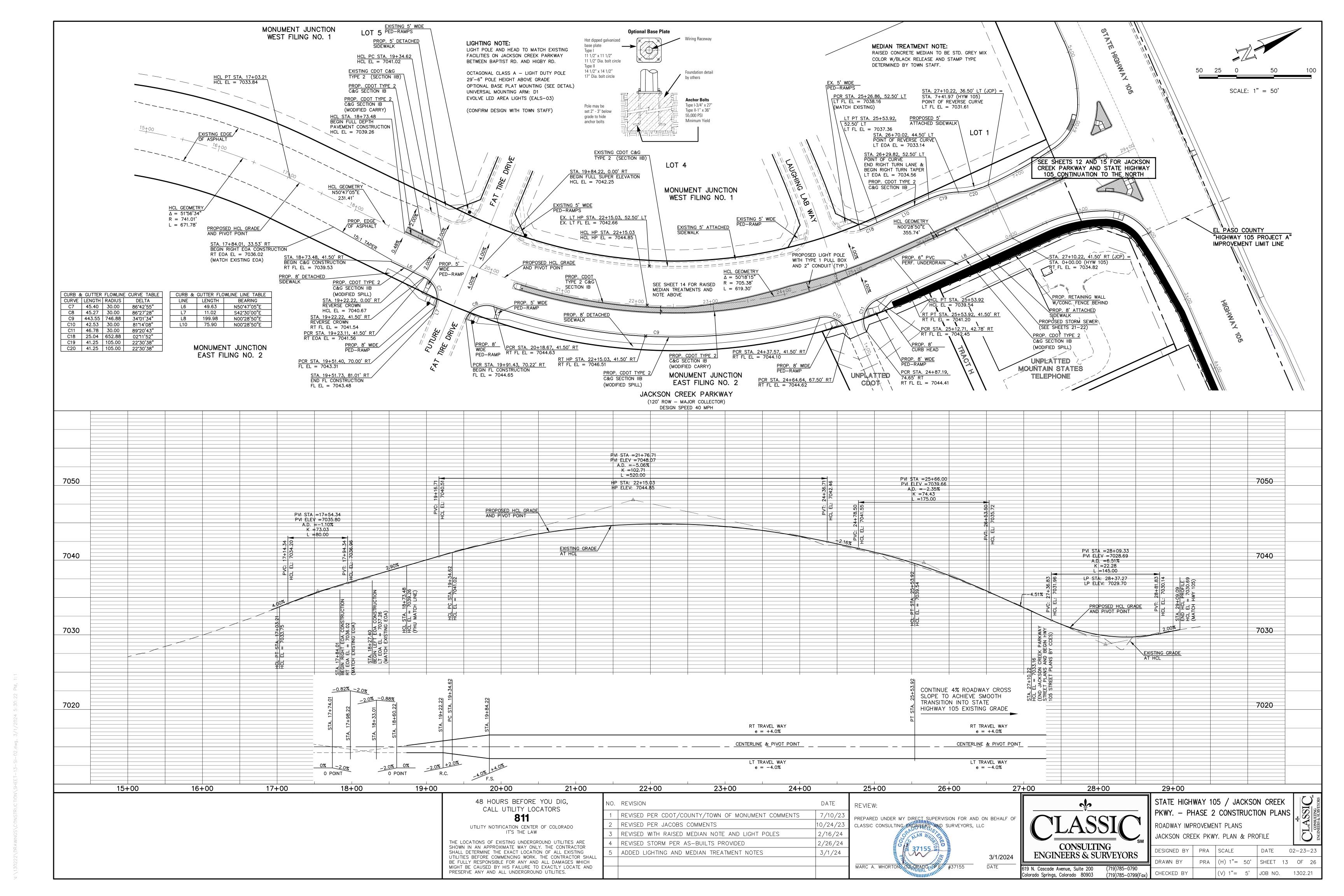
5. THE CONTRACTOR SHALL VERIFY ALL SUBGRADE CONDITIONS IN CUT AREAS PRIOR TO PREPARATION AND PAVING.

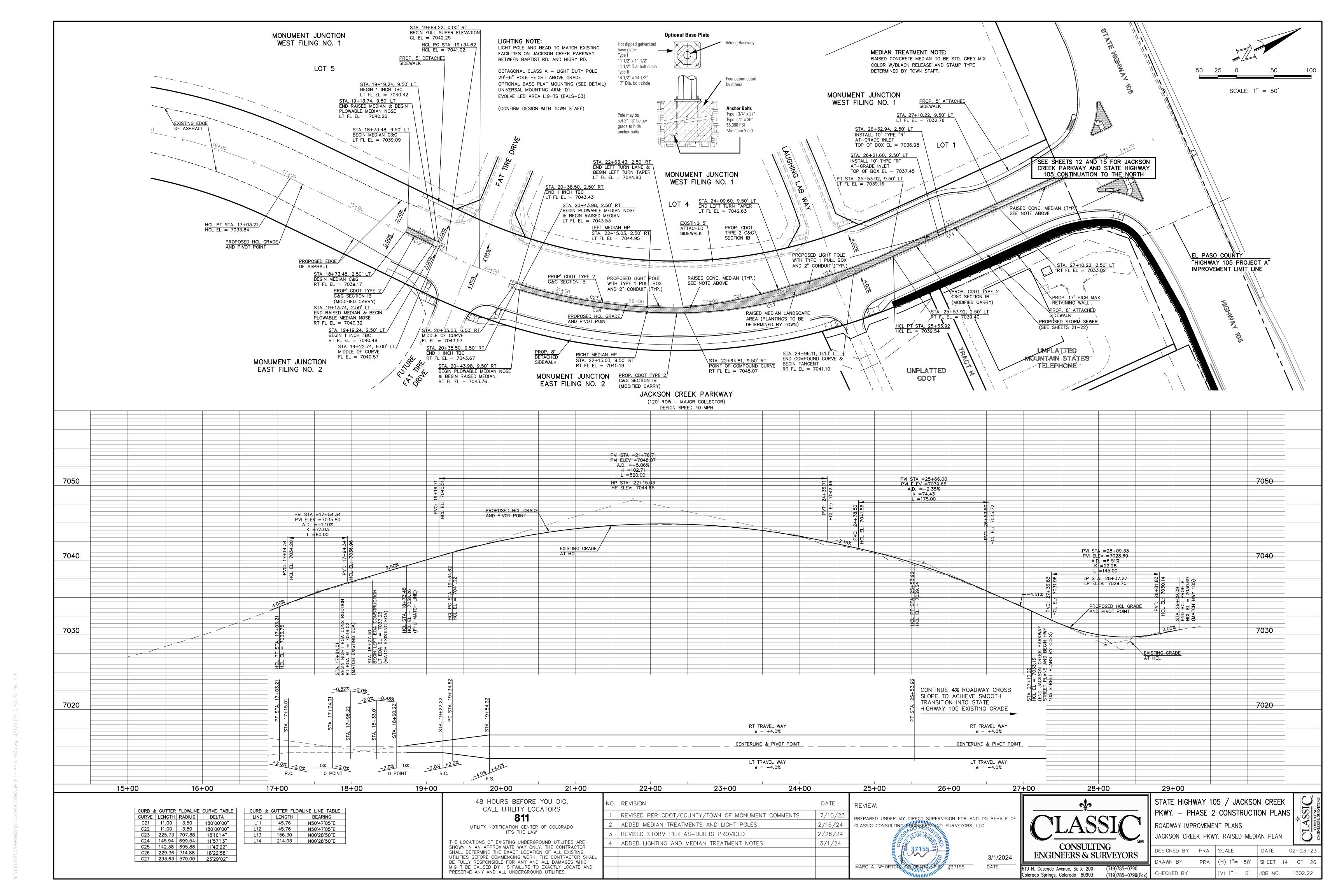
6. FOR FILL CONDITIONS, THE CONTRACTOR SHALL VERIFY SUBGRADE CONDITIONS THROUGH COMPACTION AND DENSITY

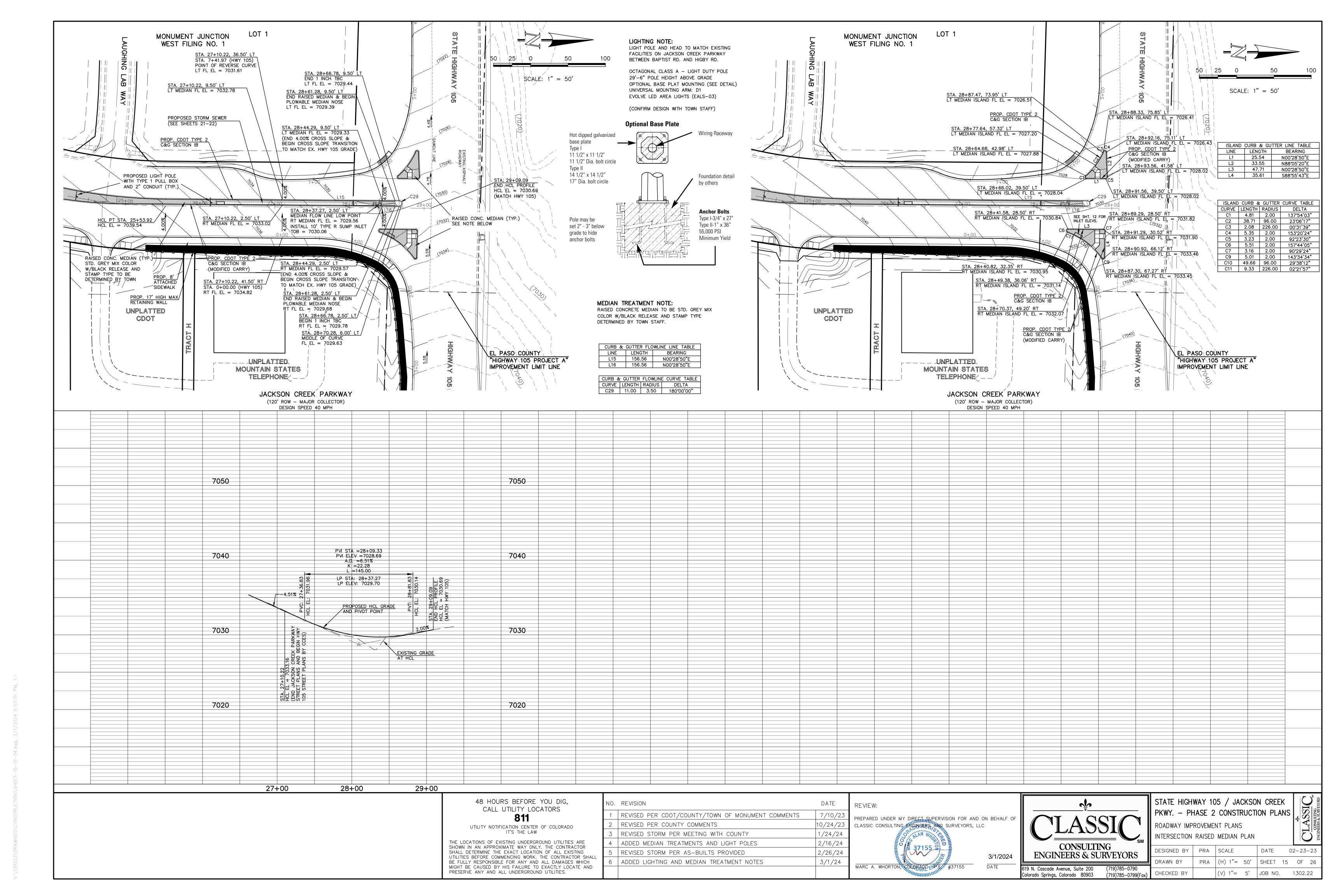
4. SEE <u>PROPOSED JACKSON CREEK PARKWAY WIDENING, HIGHWAY 105 TO HIGBY ROAD</u> - GEOTECHNICAL EVALUATION REPORT

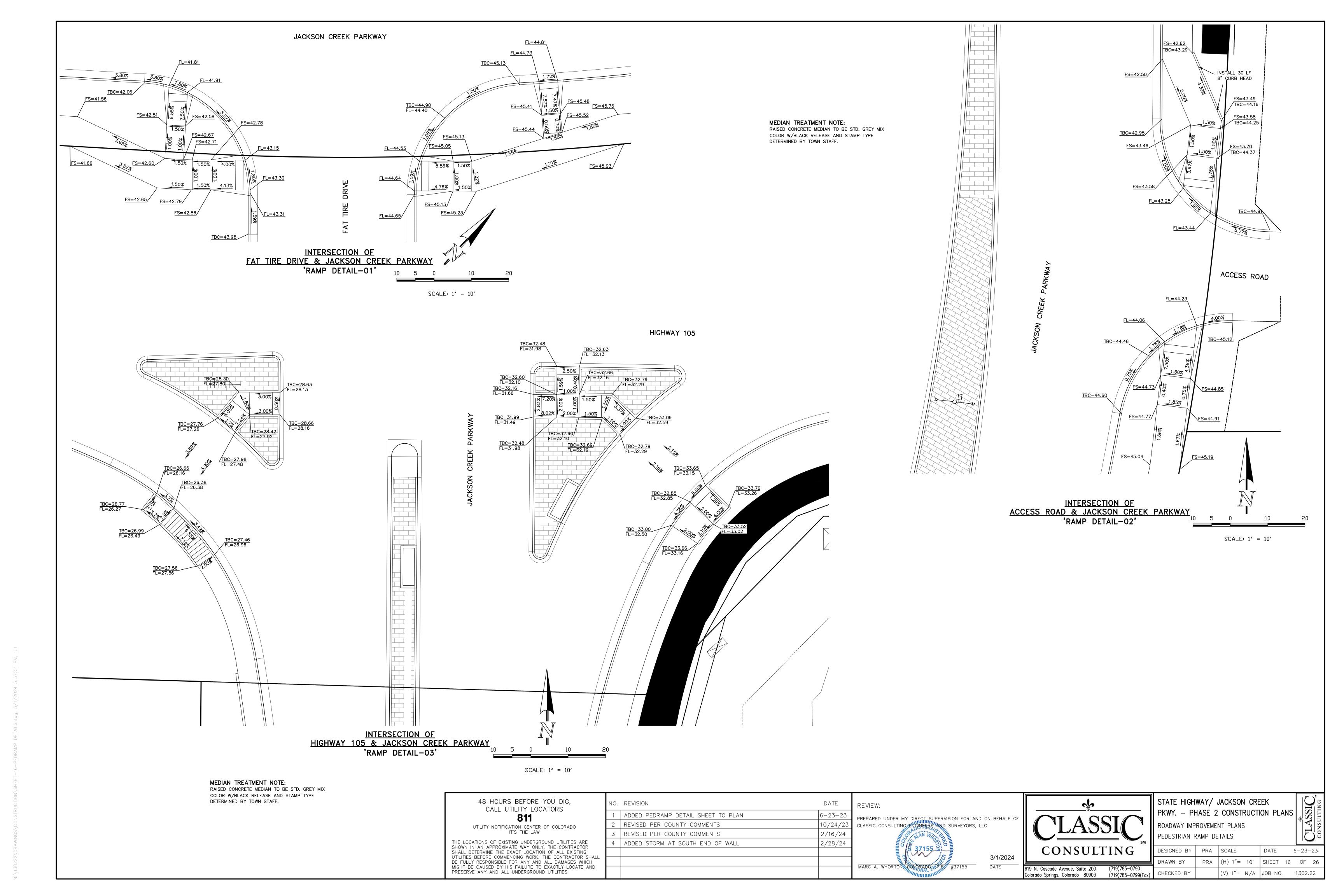


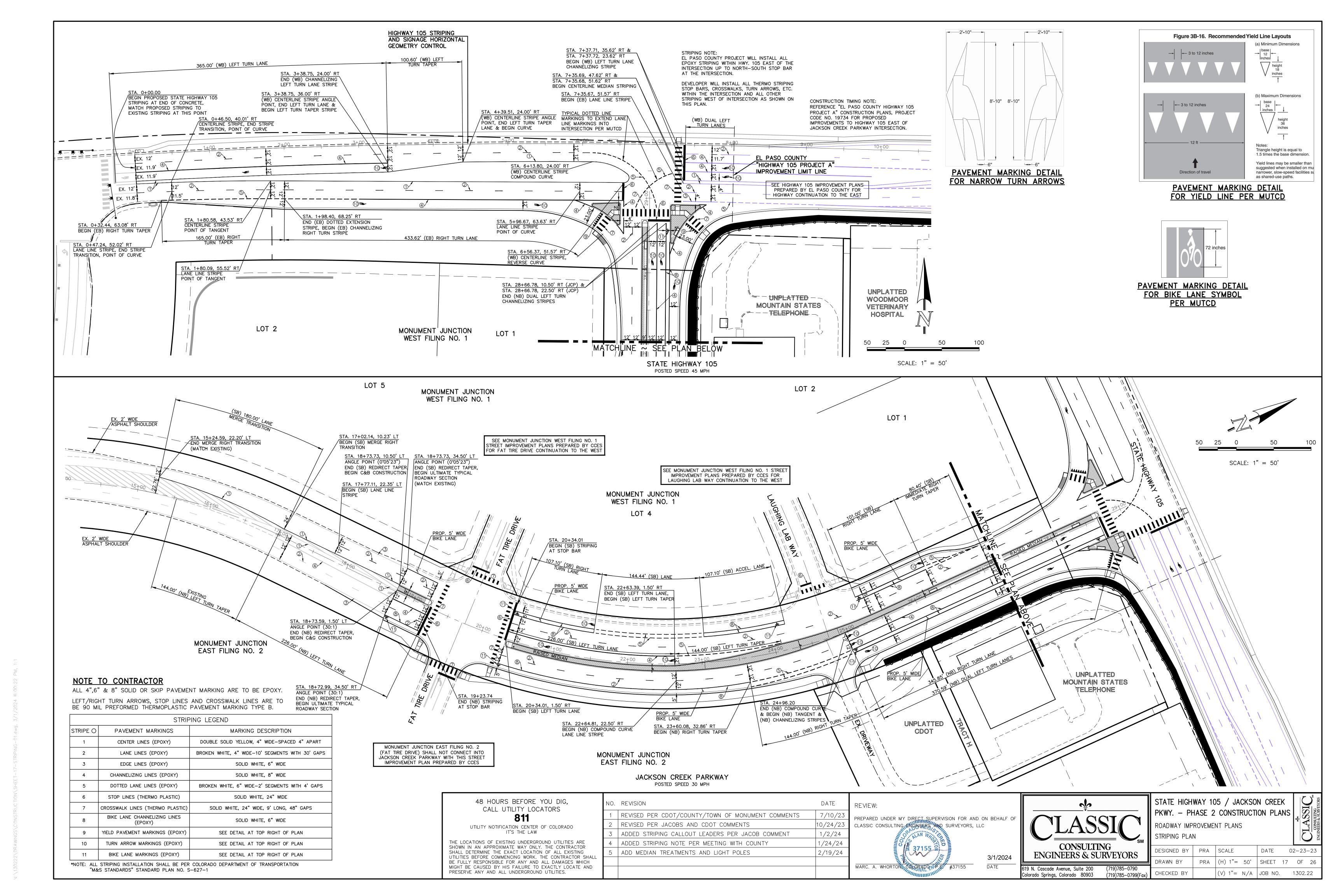


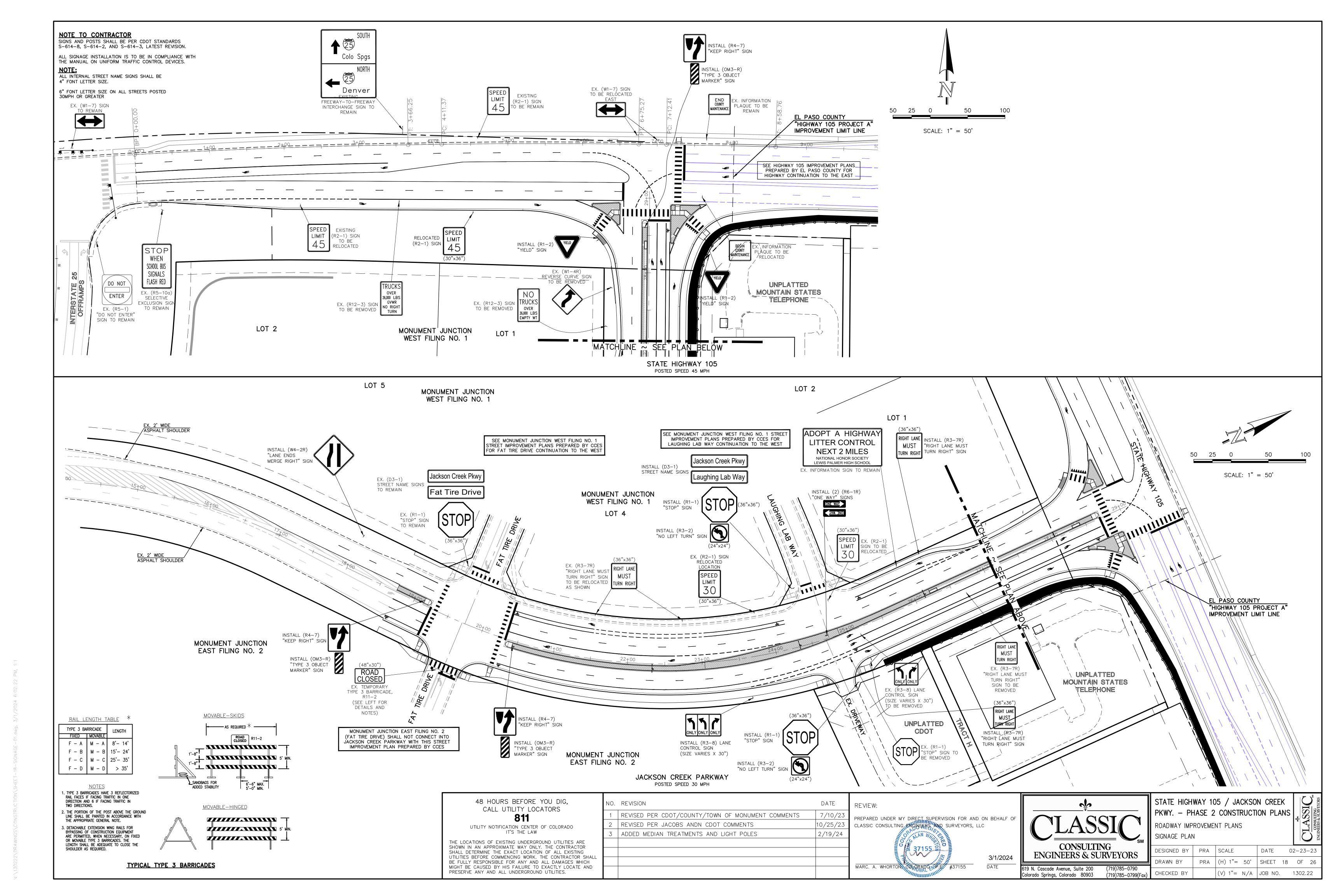


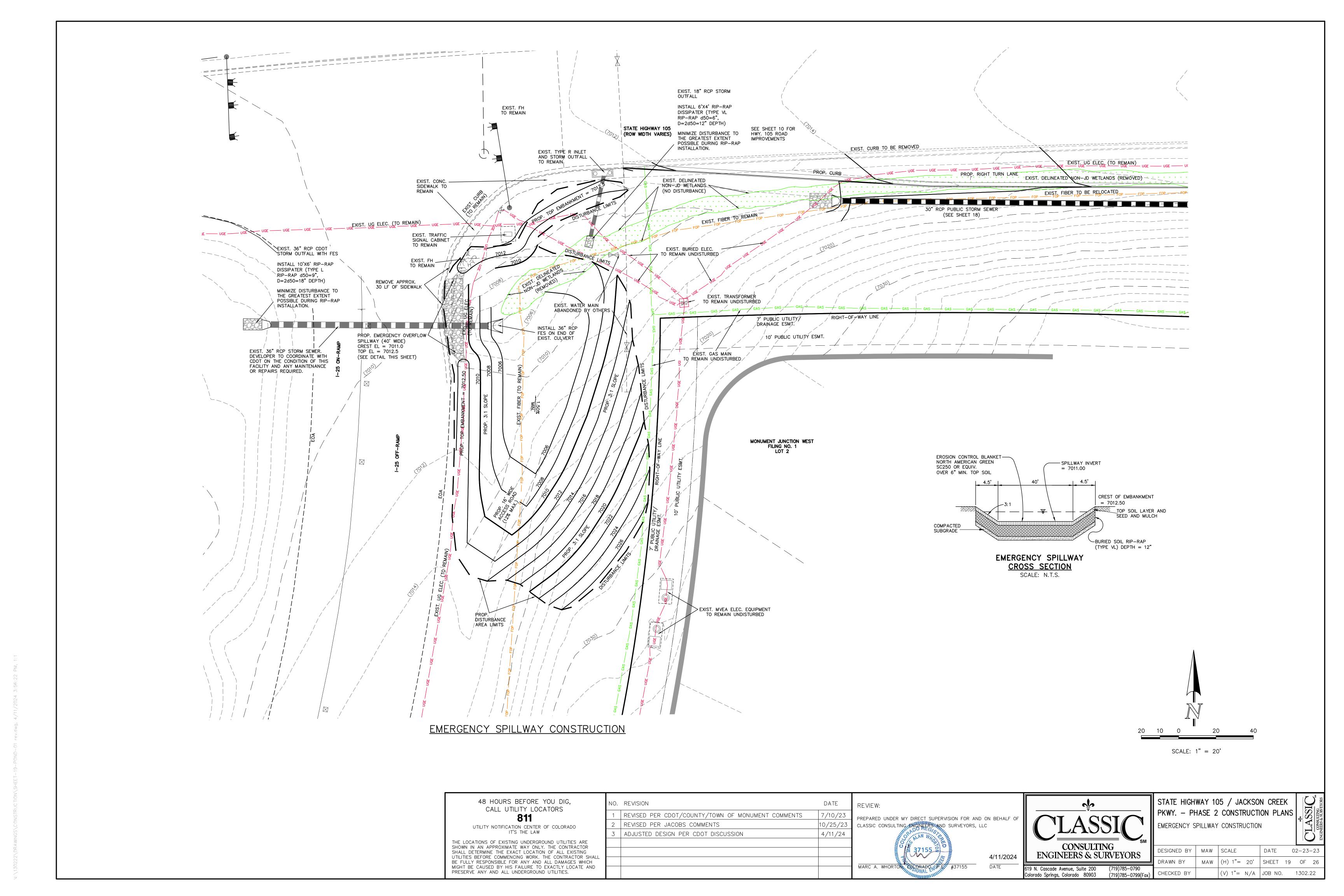


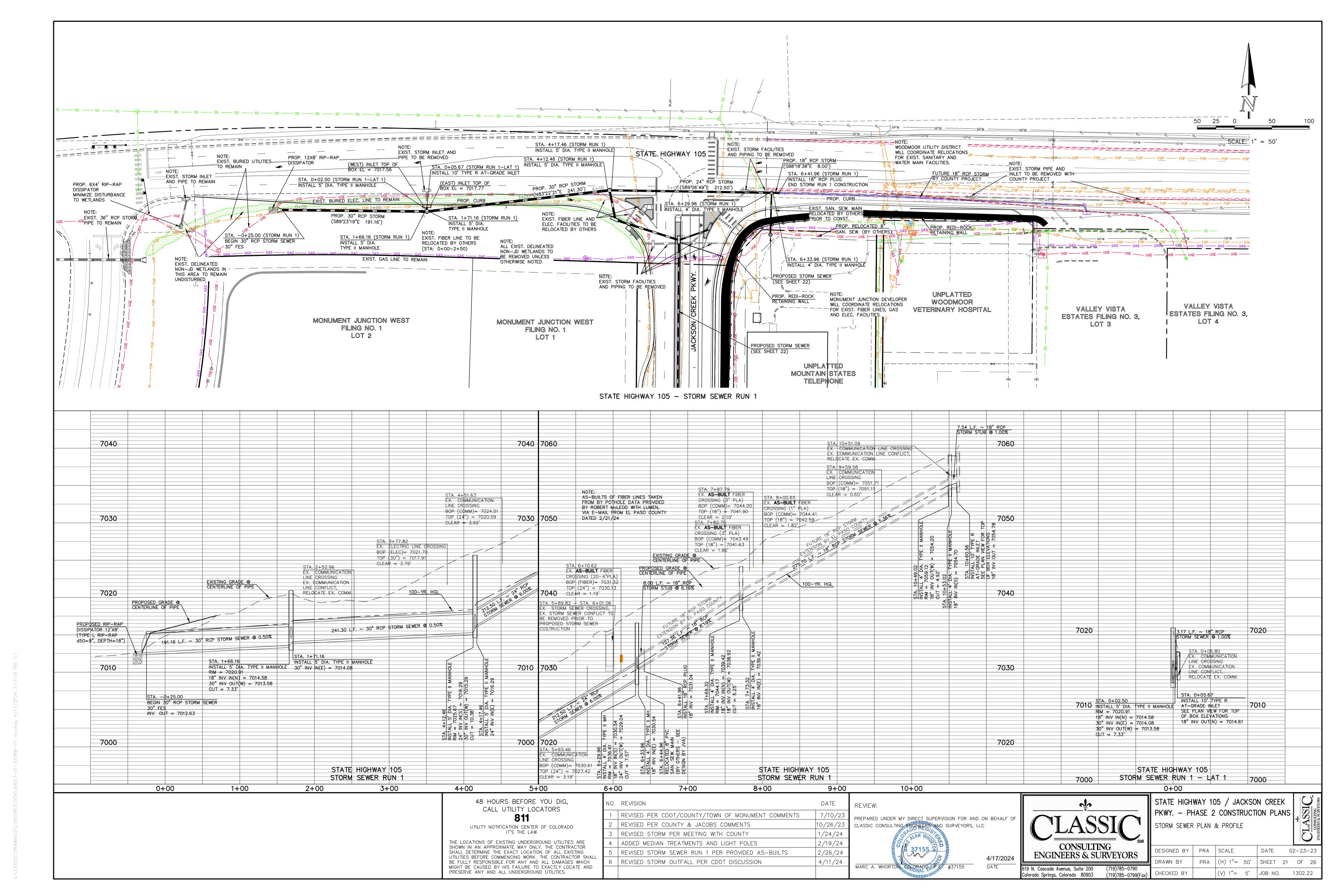


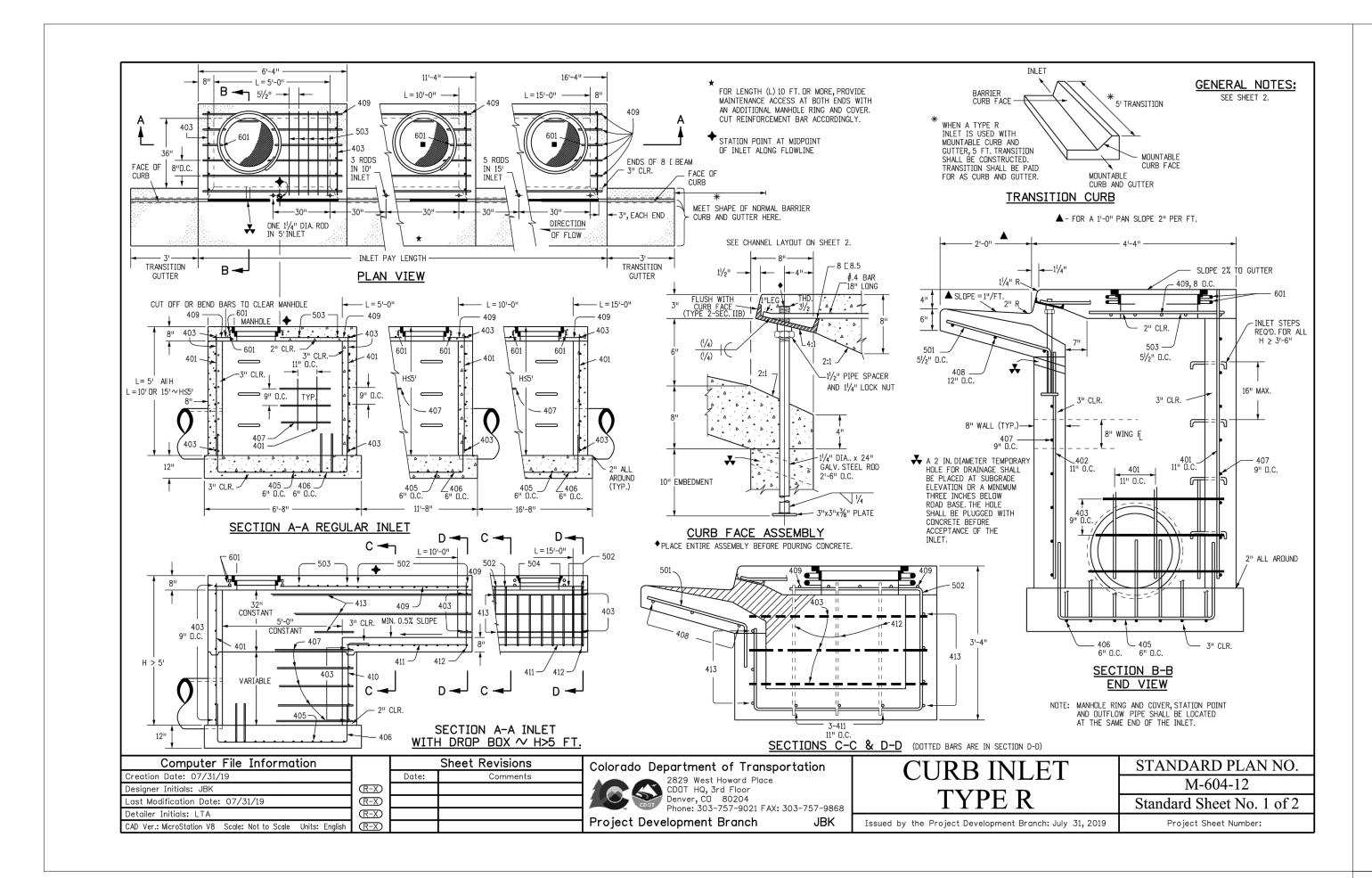


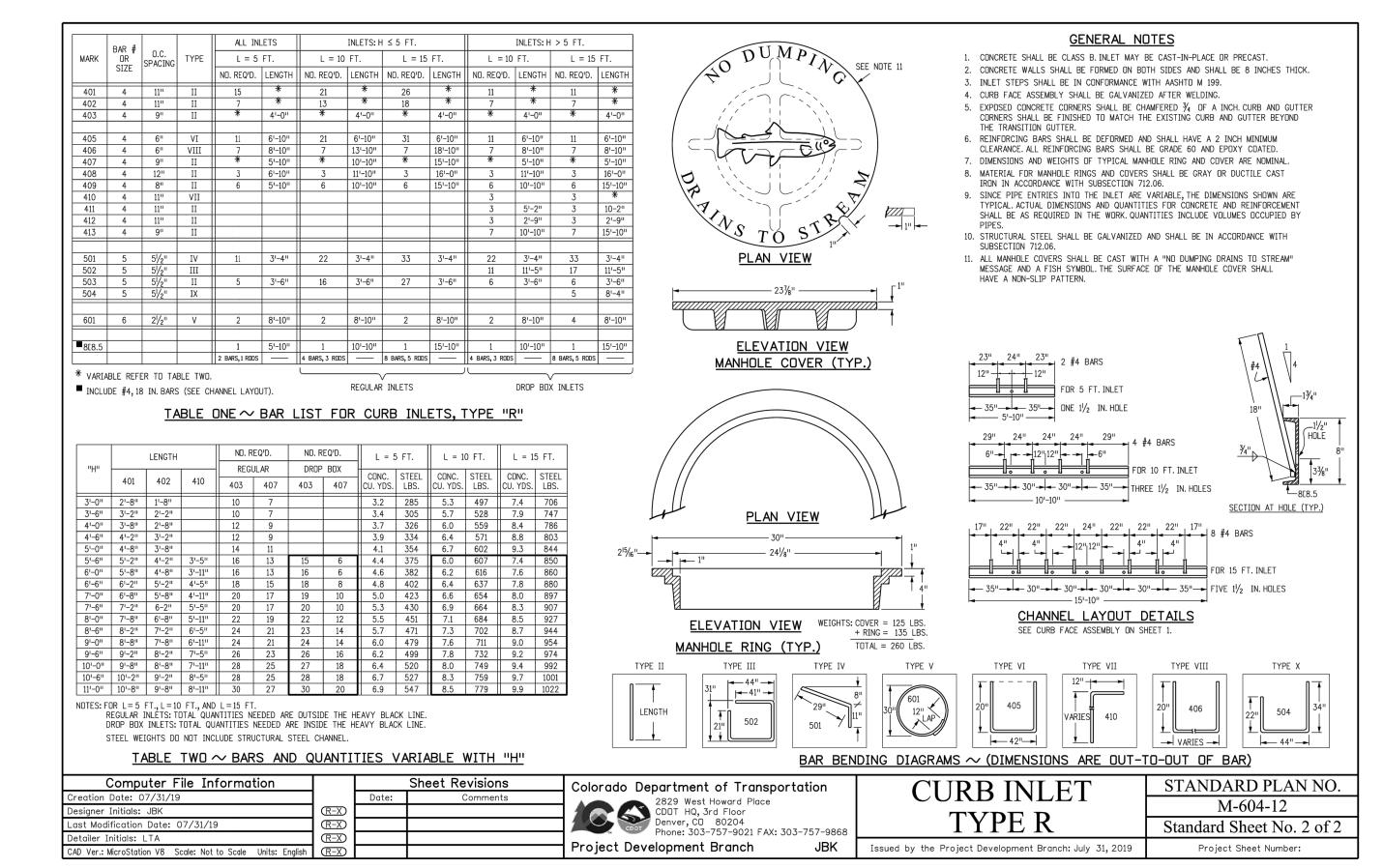


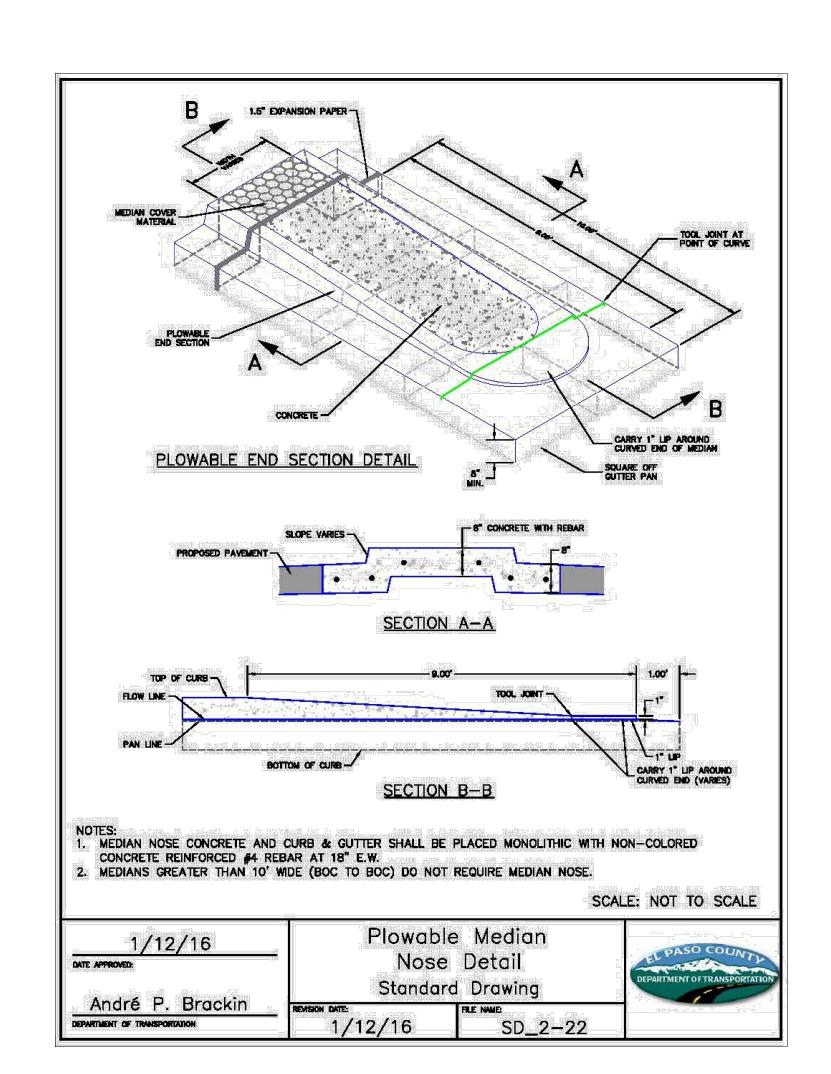


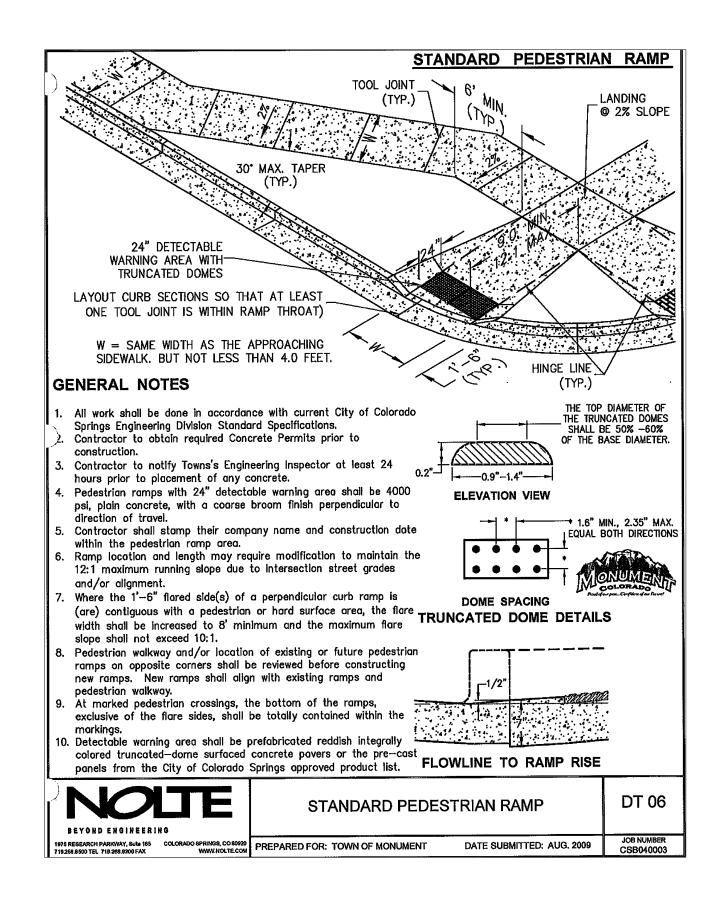




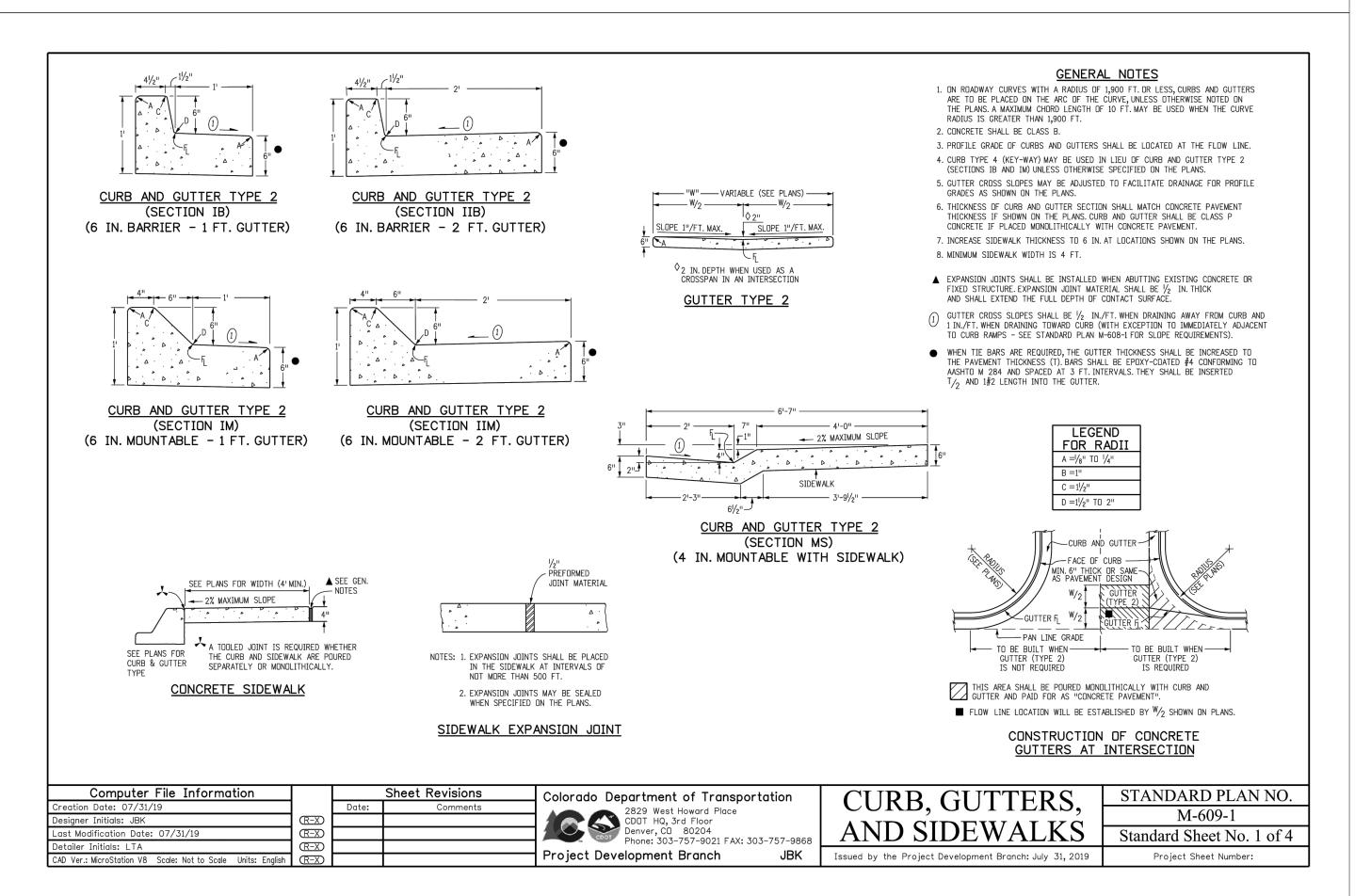


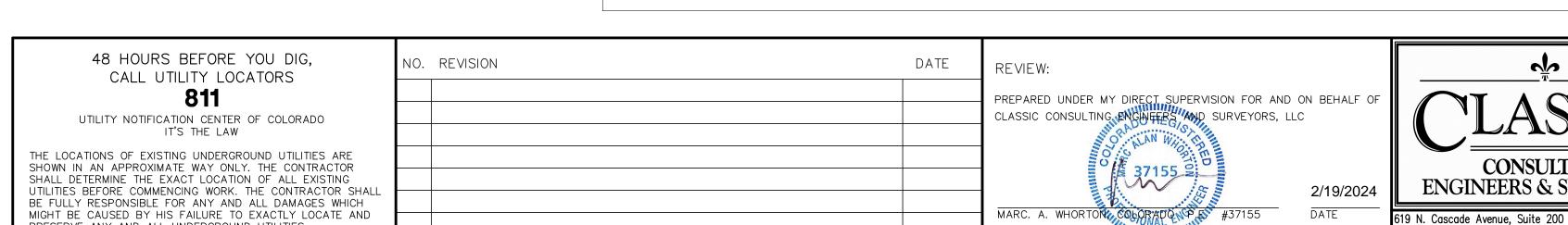






PRESERVE ANY AND ALL UNDERGROUND UTILITIES.





STATE HIGH PKWY. – PH ROADWAY IMP DETAIL SHEET DESIGNED BY DRAWN BY

(719)785-0799(Fax)

olorado Springs, Colorado 80903

STATE HIGHWAY 105 / JACKSON CREEK PKWY. - PHASE 2 CONSTRUCTION PLANS ROADWAY IMPROVEMENT PLANS

 DESIGNED BY
 PRA
 SCALE
 DATE
 02-23-23

 DRAWN BY
 PRA
 (H) 1"= 50"
 SHEET 23 OF 26

 CHECKED BY
 (V) 1"= 5"
 JOB NO. 1302.22

CDOT ITEM NO.	ITEM DESCRIPTION	UNITS	TOTAL	NOTES
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1	REFER TO THE REMOVAL ITEMS AND QUANTITIES BELOW
	REMOVAL OF TRAFFIC SIGNAL POLE	EACH	4	
	REMOVAL OF TRAFFIC SIGNAL HEAD	EACH	12	
FOR	REMOVAL OF TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	1	
INFORMATION	REMOVAL OF LUMINAIRE	EACH	4	RETURN TO EL PASO COUNTY
ONLY	REMOVAL OF STREET NAME SIGN	EACH	3	
	REMOVAL OF LANE USE/OPERATION SIGN	EACH	2	
	REMOVAL OF SPAN WIRE CABLE	LF	320	
210-00479	RESET RADIO COMMUNICATION ANTENNA	EACH	1	
503-00036	DRILLED SHAFT (36 INCH)	LF	60	CDOT STD. S-614-40A FOOTING
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	400	SCHEDULE 80
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	800	SCHEDULE 80
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	155	SCHEDULE 80
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	190	SCHEDULE 80
613-07003	TYPE THREE PULL BOX	EACH	4	SIGNAL POLE AND CONTROLLER PULL BOXES
613-07004	TYPE FOUR PULL BOX	EACH	1	HOME RUN PULL BOX
613-10000	WIRING	LS	1	SIGNAL AND LIGHTING
613-13004	LUMINAIRE (LED) (4,000 LUMENS)	EACH	4	
613-50109	METER POWER PEDESTAL	EACH	1	
614-00011	SIGN PANEL (CLASS I)	SF	26	
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EACH	4	LED TYPE, POLYCARBONATE, YELLOW INCOLOR
614-70336	TRAFFIC SIGNAL FACE $(12-12-12)$	EACH	15	LED TYPE, POLYCARBONATE, YELLOW INCOLOR
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EACH	1	
614-72860	PEDESTRIAN PUSH BUTTON	EACH	1	PUSH BUTTON STATION, R10-3e SIGN AND ANY NECESSARY EXTENDER
614-72863	PEDESTRIAN PUSH BUTTON POST ASSEMBLY	EACH	3	CDOT STD. S-614-45, INCLUDES R10-3e SIGNS
614-72866	FIRE PREEMPTION UNIT AND TIMER	EACH	1	INCLUDES 2 PREEMPTION UNITS
614-72886	INTERSECTION DETECTION SYSTEM (CAMERA)	EACH	2	
614-81000	TRAFFIC SIGNAL-LIGHT POLE STEEL	EACH	1	
614-81125	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-25 FOOT MAST ARM)	EACH	1	CDOT STD. S-614-40A
614-81145	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-45 FOOT MAST ARM)	EACH	1	CDOT STD. S-614-40A
614-81155	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-55 FOOT MAST ARM)	EACH	1	CDOT STD. S-614-40A
614-86248	TRAFFIC SIGNAL CONTROLLER (TYPE 2070LC)	EACH	1	

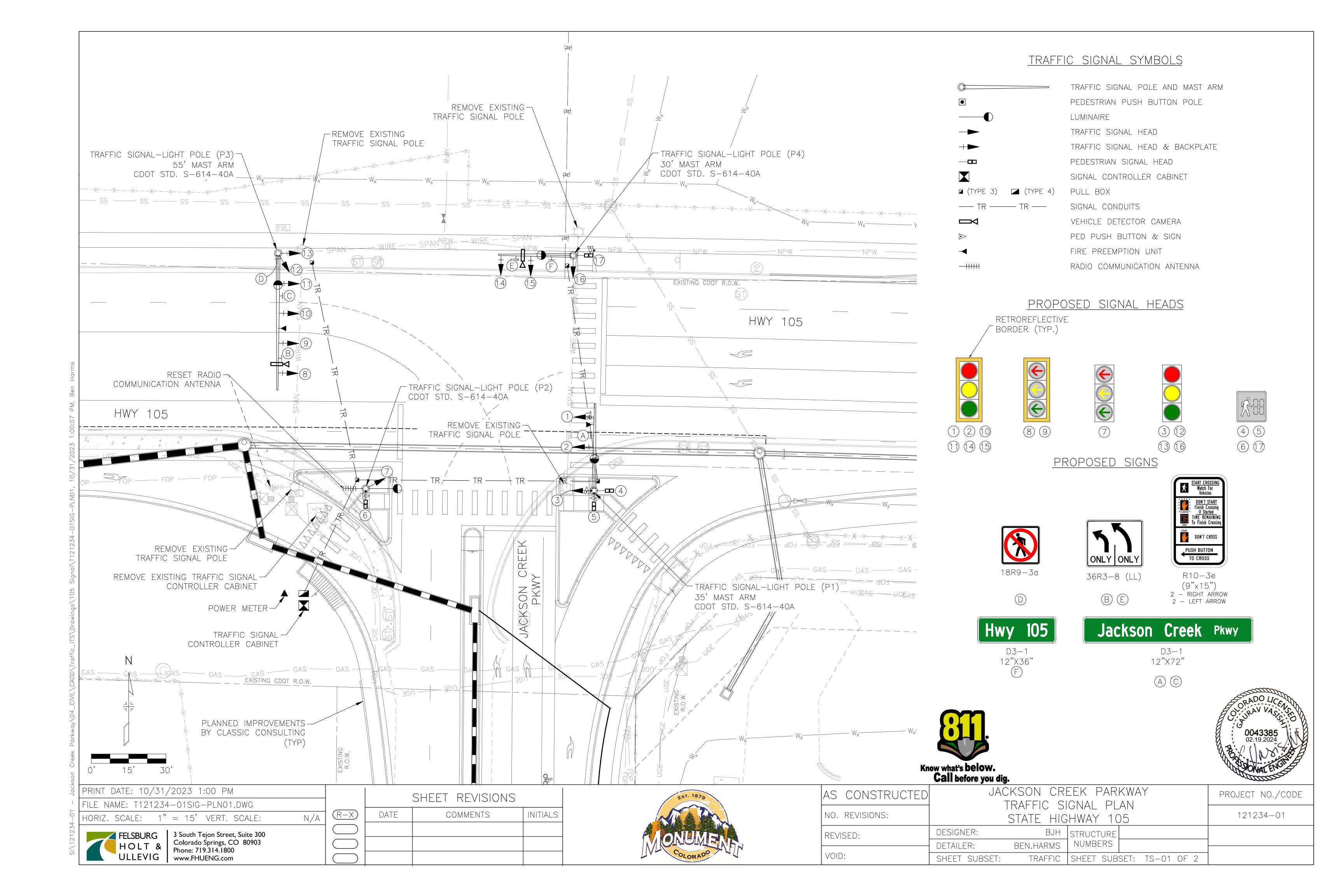
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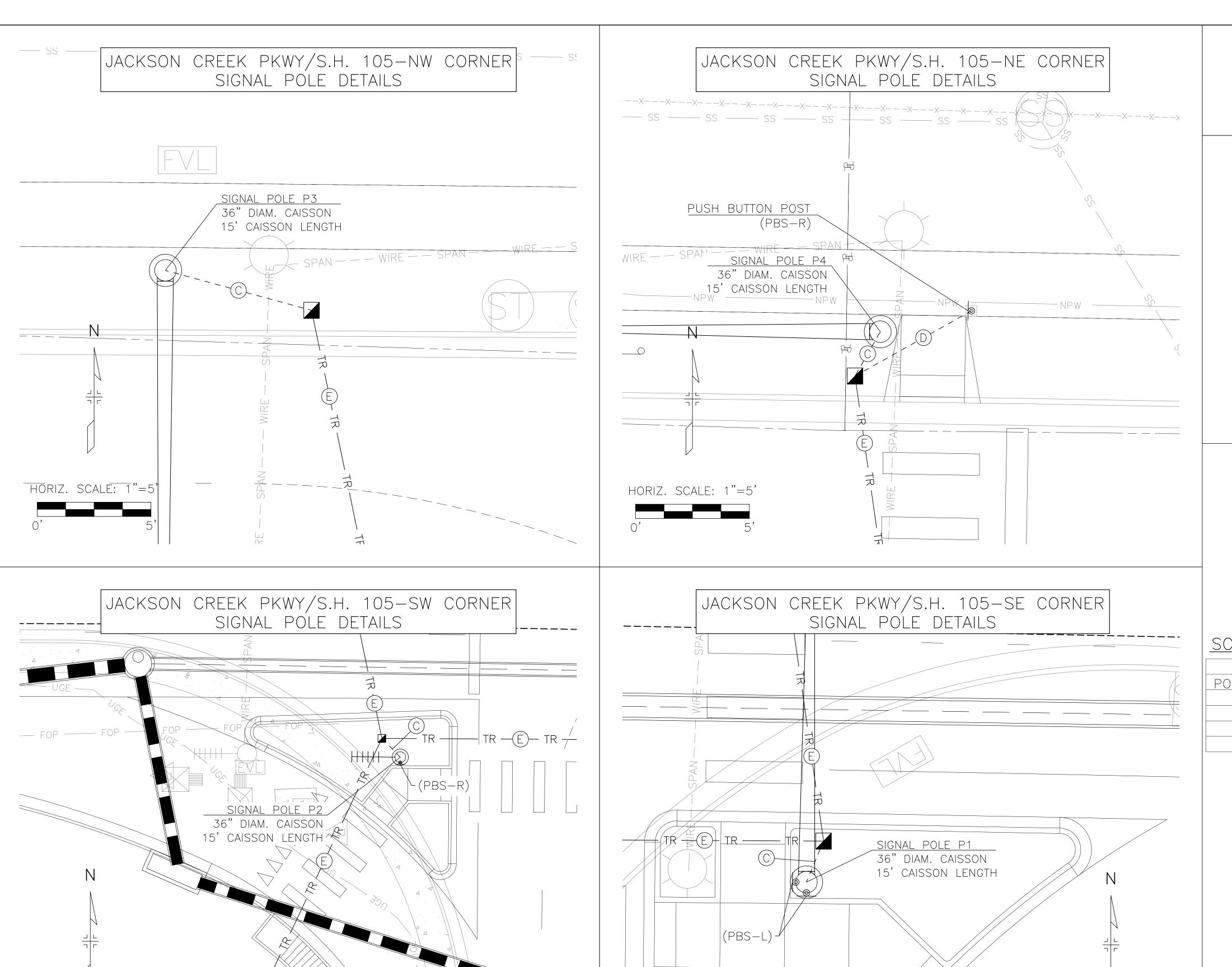
0. \   2   20	FELSBURG HOLT & ULLEVIG	3 South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719.314.1800 www.FHUENG.com		(
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# <u>LEGEND</u>

(PBS-R/L = PED PUSH BUTTION STATION WITHR10-3e RIGHT OR LEFT SIGN



PULL BOX (TYPE 4) (24"X36"X24")



PULL BOX (TYPE 3) (17"X30"X12")

TRAFFIC SIGNAL CONDUIT STREET CROSSINGS --- TRAFFIC SIGNAL CONDUIT PULL BOX CONNECTIONS

SIGNAL CONDUITS

A POV	VER METER:	1-2"
-------	------------	------

A	POWER METER:	1-2"	(TRENCHED)
B	CONTROLLER	1-2" AND 4-3"	(TRENCHED)
$\bigcirc$	SIGNAL POLES	1-2" AND 2-3"	(TRENCHED)
	PUSH BUTTON POST	2-2"	(TRENCHED)
E	STREET CROSSINGS	1-2" AND 2-3"	(BORED)

## NOTE:

PULL BOX AND CONDUIT LOCATIONS ARE APPROXIMATE ONLY. TO THE EXTENT POSSIBLE, THE CONTRACTOR SHALL INSTALL PULL BOXES OUTSIDE OF SIDEWALK AREAS; HOWEVER, IF PULL BOXES NEED TO BE PLACED WITHIN SIDEWALKS, THEY SHALL BE INSTALLED FLUSH WITH THE FINISHED SURFACE AND THE LIDS SHALL HAVE AN ANTI—SKID SURFACE TREATMENT. PULL BOXES SHALL NOT BE INSTALLED IN ANY CURB RAMPS.

# SCHEDULE OF TRAFFIC SIGNAL POLES

TF	RAFFIC SIGN	AL POLE	STAKING L	OCATION AND	CAISSON	DETAILS
POLE ID	MAST ARM	LUMMINAIRE ARM	NORTHING	EASTING	DIAMETER	DEPTH
P1	35 FT	15 FT ARM	1459419.60	3183115.91	36 IN	15 FT
P2	_	15 FT ARM	1459420.43	3183024.20	36 IN	15 FT
P3	55 FT	15 FT ARM	1459515.01	3182989.04	36 IN	15 FT
P4	30 FT	15 FT ARM	1459514.13	3183107.67	36 IN	15 FT





FELSBURG HOLT &	3 South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719.314.1800	N/A	
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	FILE NAME: T121234 HORIZ. SCALE: FELSBURG	FELSBURG HOLT & South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719.314.1800	FILE NAME: T121234-01SIG-PLN02.DWG  HORIZ. SCALE: VARIES VERT. SCALE: N/A  FELSBURG HOLT & Colorado Springs, CO 80903 Phone: 719.314.1800

HORIZ. SCALE: 1"=10'

	SHEET REVISIONS						
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HORIZ. SCALE: 1"=5'

II betore you	dig.			Allen
JACKSON CREEK PARKWAY TRAFFIC SIGNAL POLE DETAILS				PROJECT NO./CODE
IKA	STATE HIG			121234-01
SIGNER:	BJH	STRUCTURE		
TAII FR:	BEN HARMS	NUMBERS		

SHEET SUBSET:

TS-02 OF 2

- 2. ALL TRAFFIC SIGNAL-LIGHT POLES SHALL BE GROUNDED.
- 3. TRAFFIC SIGNAL MAST ARM POLE AND PEDESTAL POLE LOCATIONS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE TOWN BEFORE INSTALLATION.
- 4. LOCATIONS OF THE TRAFFIC SIGNAL POLES AND PEDESTAL POLE FOUNDATIONS SHALL BE ADJUSTED BY THE DESIGN ENGINEER IF NECESSARY.
- 5. ALL TRAFFIC SIGNAL POLES. MAST ARMS AND CAISSONS SHALL BE DESIGNATED AND CONSTRUCTED FOR A 100 MPH DESIGN WIND SPEED.
- 6. TRAFFIC SIGNAL POLES SHALL BE A MINIMUM OF 40 FEET IN HEIGHT FROM FINISHED GRADE. TRAFFIC SIGNAL POLES SHALL BE HOT DIP GALVANIZED. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF MONUMENT ON POLE COLOR PRIOR TO PROCUREMENT. POLES SHALL BE OCTAGONAL TAPERED AS MANUFACTURED BY AMERON INTERNATIONAL, OR AS APPROVED BY THE TOWN OF MONUMENT.
- 7. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE APPROVED SOLID STATE LED TYPE. ALL VEHICLE HEAD HOUSINGS SHALL BE YELLOW IN COLOR WITH TUNNEL VISORS.
- 8. LUMINAIRES SHALL BE LED TYPE WITH CUT-OFF LENSES. LUMINAIRES SHALL BE COBRA HEAD STYLE AND 15 FEET IN LENGTH.
- 9. SIGNAL HEADS ON MAST ARMS SHALL HAVE FINAL LOCATIONS CONFIRMED WITH THE DESIGN ENGINEER.
- 10. PROPOSED SIGNAL HEADS SHALL BE COVERED BY METHOD APPROVED BY TOWN OF MONUMENT UNTIL READY FOR OPFRATION.
- 11. PAYMENT SHALL BE MADE ONLY FOR ITEMS IN THE PAY ITEM LIST. ALL OTHER ITEMS NECESSARY TO PROVIDE A FULLY FUNCTIONAL TRAFFIC SIGNAL INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
- 12. PULL BOX LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE TOWN OF MONUMENT'S CIVIL ENGINEERING INSPECTOR. ALL PULL BOXES SHALL BE FLUSH WITH FINISHED GROUND SURFACE.
- 13. ALL CONDUIT SHALL HAVE A PULL ROPE LEFT IN THEM WHEN CONSTRUCTION IS COMPLETED. ALL CONDUIT UNDER THE ROADWAY SHALL BE DIRECTIONALLY BORED A MINIMUM OF 3' BELOW EXISTING PAVEMENT. ALL CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC. ALL CONDUIT SHALL BE SEALED WITH DUCT SEAL PUTTY.
- 14. ALL CONDUIT RUNS WITH MULTIPLE CONDUITS SHALL BE INSTALLED IN A COMMON BORE OR TRENCH. ALL CONDUIT RUNS SHALL HAVE TRACER WIRE INSTALLED FOR FUTURE LOCATES.
- 15. TOP OF SIGNAL POLE AND PEDESTAL POLE CAISSONS SHALL BE INSTALLED TWO (2) INCHES ABOVE THE FINISHED GROUND SURFACE.

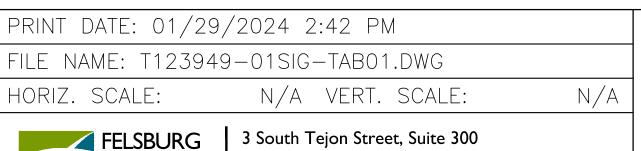
- 16. NO EXCAVATIONS SHALL BE PERMITTED UNTIL UNDERGROUND UTILITIES HAVE BEEN LOCATED TO THE SATISFACTION OF ALL PARTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL AERIAL AND UNDERGROUND UTILITIES DURING CONSTRUCTION. CALL 811 FOR ALL UTILITY LOCATION REQUIREMENTS.
- 17. THE CONTROLLER CABINET SHALL BE MOUNTED ON A PREFORMED FIBERGLASS BASE. LOAD SWITCHES SHALL INDICATE INPUT AND OUTPUT.
- 18. ITEM 614-86800, UNINTERRUPTIBLE POWER SUPPLY (UPS) SHALL BE PROVIDED TO RUN THE SIGNAL FOR TWO (2) HOURS IN ALL PHASES, AND FLASH FOR FOUR (4) ADDITIONAL HOURS.
- 19. THE CONTRACTOR SHALL PROVIDE THE TOWN OF MONUMENT WITH THREE (3) SETS OF EQUIPMENT SPECIFICATIONS/ DESCRIPTIONS AND OBTAIN APPROVALS PRIOR TO ORDERING THE EQUIPMENT.
- 20. ALL MANUALS, INSTALLATION GUIDES AND ASSOCIATED EQUIPMENT SHALL BE PROVIDED TO THE TOWN OF MONUMENT'S CIVIL ENGINEERING INSPECTOR AT TIME OF INSPECTION.
- 21. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUPPLY THE TOWN OF MONUMENT WITH TWO (2) SETS OF RECORD DRAWINGS AND CORRECTED PLANS OF THE TRAFFIC SIGNALS IN PDF FORMAT.
- 22. THE CONTRACTOR SHALL OBTAIN PERMITS REQUIRED BY TOWN OF MONUMENT. ALL COST ASSOCIATED WITH PERMITS SHALL NOT BE PAID FOR SEPARATELY BUT BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 23. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS THROUGHOUT THE PROJECT FOR PEDESTRIANS, BICYCLISTS AND DISABLED PERSONS. WHEN EXISTING ACCESS ROUTE IS DISTURBED BY CONSTRUCTION, A TEMPORARY ALL-WEATHER ACCESS SHALL BE PROVIDED.

- 24. THE LOCATION AND ORIENTATION OF ALL PEDESTRIAN SIGNAL HEADS, PEDESTAL POLES, AND PUSH BUTTONS SHALL BE FIELD APPROVED PRIOR TO INSTALLATION. THE CONTRACTOR SHALL CONTACT TOM MARTINEZ, CIVIL ENGINEERING INSPECTOR, AT 719-499-3375 TWO BUSINESS DAYS PRIOR TO INSTALLATION.
- 25. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL CONFORM TO MUTCD R10-3e. PEDESTRIAN PUSH BUTTON SIGNS SHALL BE ALUMINUM PANEL TYPE AND SHALL BE INCLUDED IN THE COST FOR PEDESTRIAN PUSH BUTTONS.
- 26. THE CONTRACTOR SHALL HAVE A LICENSED JOURNEYMAN ELECTRICIAN ON THE JOB SITE DURING ALL TRAFFIC SIGNAL AND ELECTRICAL WORK, INCLUDING THE INSTALLATION OF ALL CONDUITS AND CAISSONS. A COPY OF LICENSE SHALL BE SUBMITTED BEFORE ANY WORK BEGINS. COLORADO STATE ELECTRICAL BOARD RULES PERTAINING TO JOURNEYMAN / APPRENTICE RATIO SHALL BE ENFORCED.
- 27. ISMA LEVEL II BENCH TECH CERTIFIED TECHNICIAN IS REQUIRED FOR ALL WORK BEING COMPLETED IN THE TRAFFIC SIGNAL CABINET.
- 28. FOR ALL WORK EXTERNAL TO THE SIGNAL CABINET, A MINIMUM IMSA LEVEL 1 TRAFFIC SIGNAL FIELD TECHNICAL/ELECTRICIAN, OR TRAFFIC SIGNAL BENCH TECHNICIAN/SIGNAL TECHNICIAN IS REQUIRED. A JOURNEYMAN ELECTRICIAN AND AN IMSA LEVEL II TRAFFIC SIGNAL ELECTRICIAN SHALL BE ON THE JOB SITE AT ALL TIMES THAT THE SIGNALIZATION WORK IS TAKING PLACE TO ENSURE PROPER CONSTRUCTION. FOR EACH JOURNEYMAN ELECTRICIAN PRESENT, A MAXIMUM OF 3 APPRENTICE ELECTRICIANS WILL BE ALLOWED TO WORK.
- 29. CAPS SHALL NOT BE INSTALLED ON ANCHOR BOLTS.
- 30. TRAFFIC SIGNAL MAST ARM POLES, PEDESTAL POLES, AND CAISSONS SHALL BE MANUFACTURED AND CONSTRUCTED IN ACCORDANCE WITH CDOT STANDARDS S-614-40A AND S-614-44, RESPECTIVELY.
- 31. WHEN CONSTRUCTION TRAFFIC CONTROL SIGNS ARE NOT IN USE, THEY SHALL BE MASKED, TURNED IN SUCH A WAY THAT THEY ARE UNREADABLE, OR REMOVED.

- 32. UNLESS OTHERWISE PROVIDED IN THE PLANS, EXISTING SIGNS SHALL BE MAINTAINED AND/OR RELOCATED AS NECESSARY DURING CONSTRUCTION. ANY EXISTING SIGNS THAT CONFLICT WITH TEMPORARY SIGNS SHALL BE MASKED OR REMOVED. THE COST TO MAINTAIN, RELOCATE OR MASK EXISTING SIGNS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
- 33. TWO OR MORE WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TEMPORARY PHASING AND SIGNAL TIMING PLANS TO THE TOWN OF MONUMENT FOR APPROVAL.
- 34. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING FEATURES NOT DESIGNATED FOR REMOVAL, INCLUDING, BUT NOT LIMITED TO: LANDSCAPING, IRRIGATION SYSTEMS, UTILITIES, FENCES, SIDEWALKS AND EXISTING SIGNAGE. DAMAGED FEATURES SHALL BE REPLACED "IN-KIND" BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE.
- 35. THE CONTRACTOR SHALL DEVELOP AN ACCESS MAINTENANCE PLAN IN COORDINATION WITH, AND BASED ON THE REQUIREMENTS OF, THE AFFECTED PROPERTY OWNERS AND TENANTS, AND SUBMIT IT TO THE TOWN OF MONUMENT FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK. THIS PLAN SHALL DETAIL ALL BARRICADES, RAMPS, SIGNS AND TEMPORARY MEANS OF ACCESS REQUIRED BY THE PROPERTY OWNERS OR TENANTS. PRIOR TO THE COMMENCING OF ANY WORK WHICH AFFECTS ACCESS TO PROPERTY, THE ACCESS MAINTENANCE PLAN FOR THAT PROPERTY MUST BE SUBMITTED AND APPROVED BY THE TOWN OF MONUMENT.
- 36. THE CONTRACTOR SHALL COORDINATE AND COOPERATE FULLY WITH LOCAL AUTHORITIES, UTILITY OWNERS AND OTHER CONTRACTORS TO ENSURE THAT ADEQUATE AND PROPER TRAFFIC CONTROL IS PROVIDED.
- 37. ALL SIGNAL LENSES SHALL BE 12 INCHES IN DIAMETER.
- 38. CLEAR ZONE SHALL BE IN ACCORDANCE WITH AASHTO'S "ROADSIDE DESIGN GUIDE" LATEST EDITION.

#### TABULATION OF TRAFFIC SIGNAL ITEMS

CDOT ITEM NO.	ITEM DESCRIPTION	UNITS	TOTAL	NOTES
503-00018	DRILLED SHAFT (18 INCH)	LF	20	CDOT STD. S-614-44 PEDESTAL POLE FOOTING
503-00036	DRILLED SHAFT (36 INCH)	LF	76	CDOT STD. S-614-40A SIGNAL POLE FOOTING
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	350	SCHEDULE 80
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	700	SCHEDULE 80
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	620	SCHEDULE 80
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	120	SCHEDULE 80
613-07003	TYPE THREE PULL BOX	EACH	2	SIGNAL POLE PULL BOX
613-07004	TYPE FOUR PULL BOX	EACH	1	SIGNAL POLE PULL BOX
613-07005	TYPE FIVE PULL BOX	EACH	1	CONTROLLER CABINET PULL BOX
613-10000	WIRING	LS	1	SIGNAL AND LIGHTING
613-13004	LUMINAIRE (LED) (4,000 LUMENS)	EACH	4	
613-80130	SERVICE METER CABINET	EACH	1	
614-00011	SIGN PANEL (CLASS I)	SF	53	
614-00012	SIGN PANEL (CLASS II)	SF	22.5	STREET NAME SIGNS MOUNTED ON SIGNAL MAST ARM
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EACH	8	LED TYPE, POLYCARBONATE, YELLOW IN COLOR
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH	9	LED TYPE, POLYCARBONATE, YELLOW IN COLOR
614-70560	TRAFFIC SIGNAL FACE (12-12-12-12)	EACH	9	LED TYPE, POLYCARBONATE, YELLOW IN COLOR
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EACH	1	SAFETRAN 332D: INCLUDES UPS BATTERY BACKUP SYSTEM
614-72860	PEDESTRIAN PUSH BUTTON	EACH	8	INTELLICROSS BY PELCO AUDIBLE PUSH BUTTON STATION, R10-3e SIGN AND ANY NECESSARY EXTENDER
614-72886	INTERSECTION DETECTION SYSTEM (CAMERA)	EACH	4	AUTOSCOPE VISION BY ECONOLITE
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40 FOOT MAST ARM)	EACH	2	CDOT STD. S-614-40A
614-81150	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-50 FOOT MAST ARM)	EACH	1	CDOT STD. S-614-40A
614-81155	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-55 FOOT MAST ARM)	EACH	1	CDOT STD. S-614-40A
614-00000	TRAFFIC SIGNAL CONTROLLER	EACH	1	ECONOLITE COBALT RACKMOUNT CONTROLLER



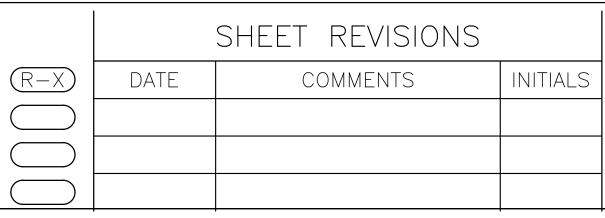
Phone: 719.314.1800

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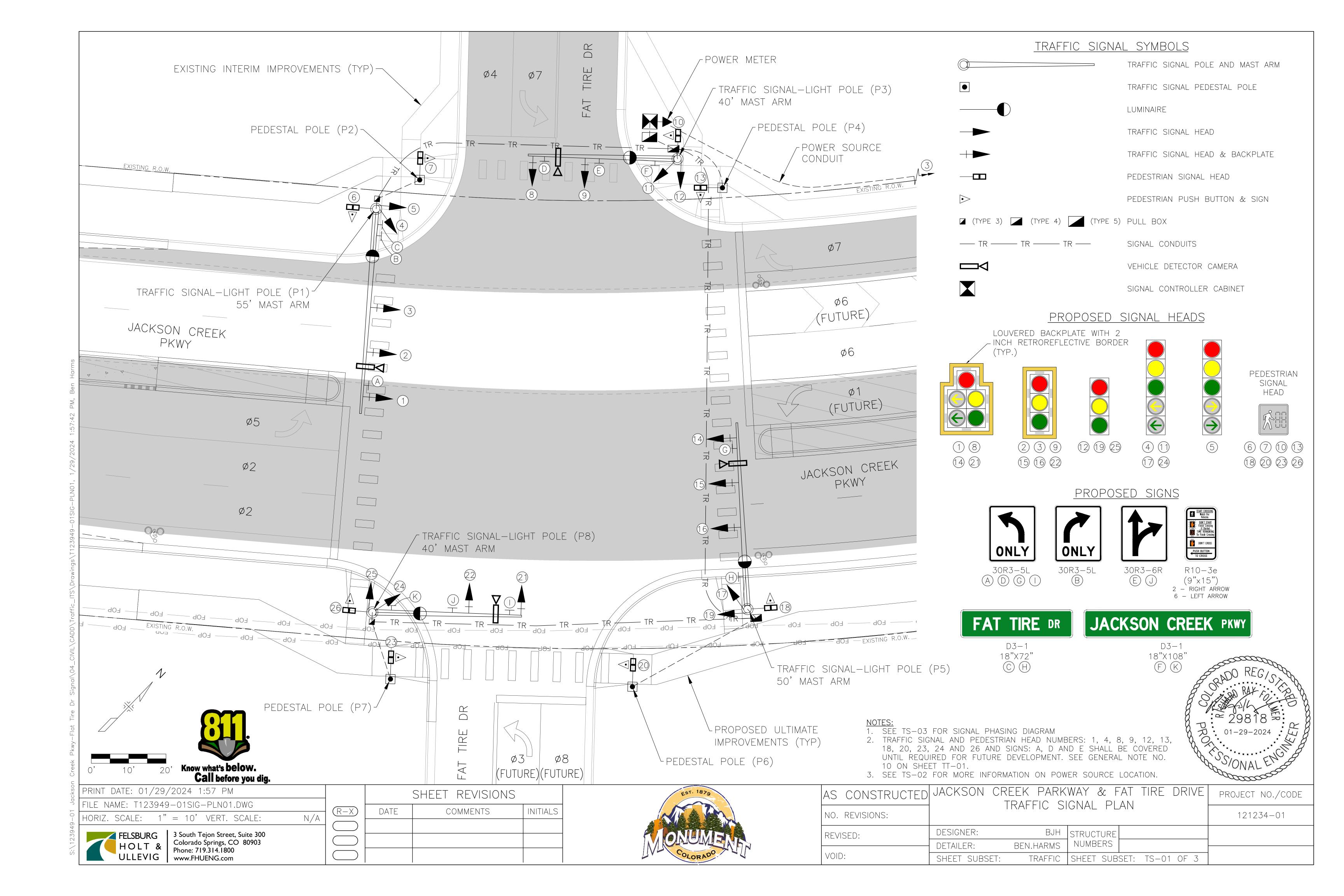
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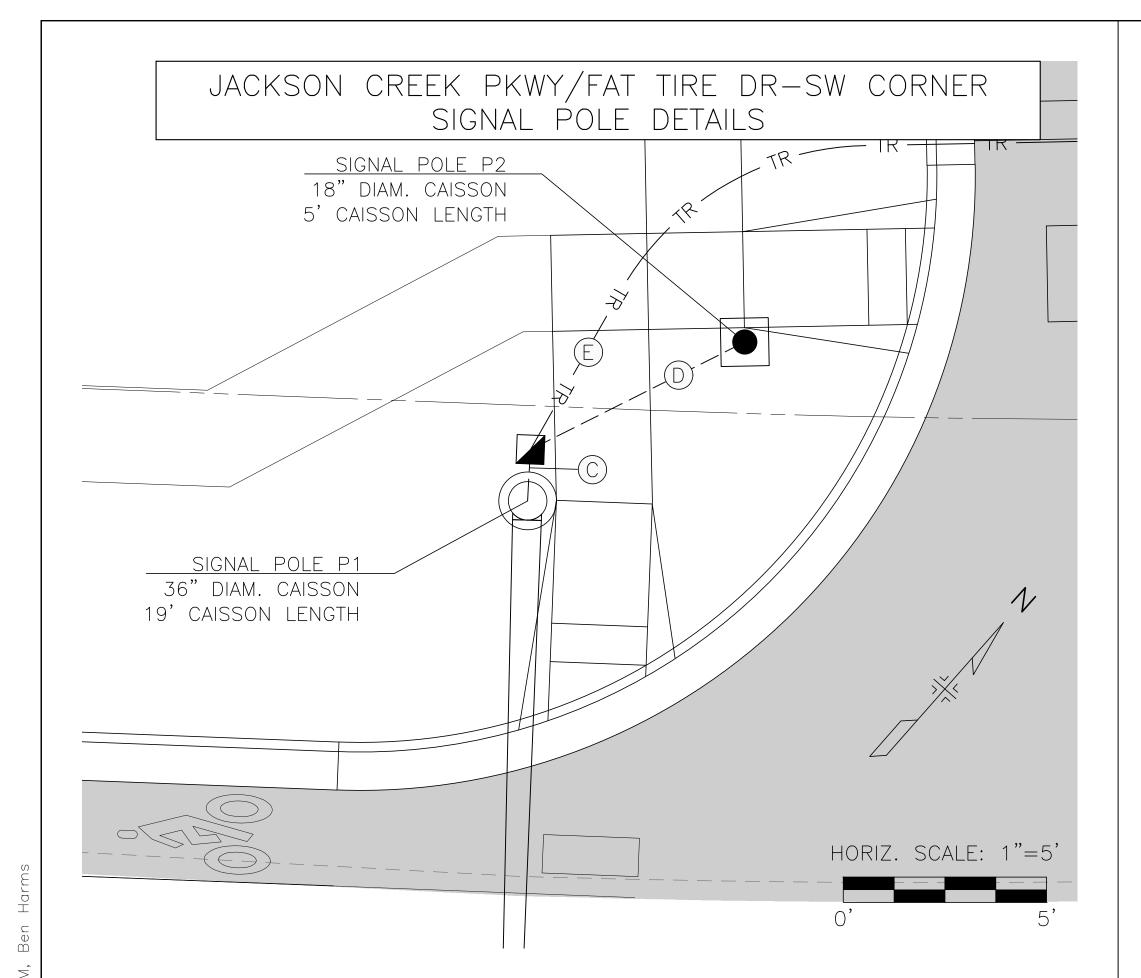
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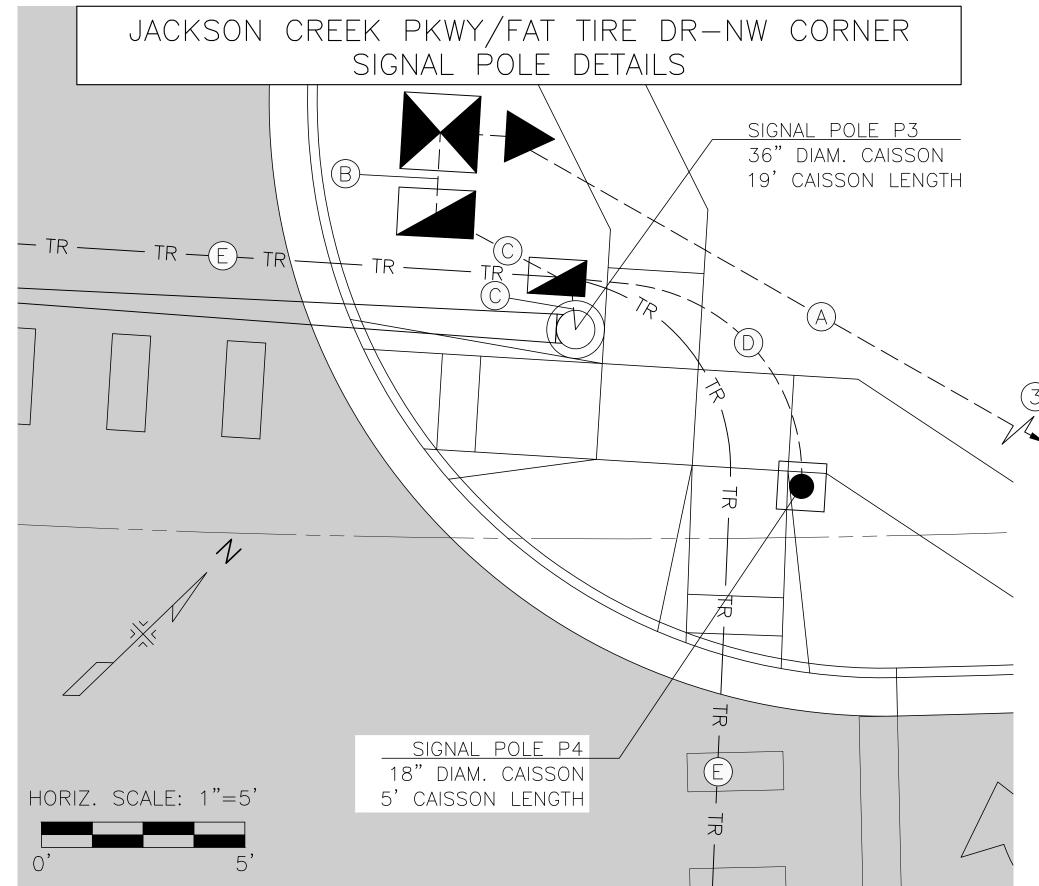


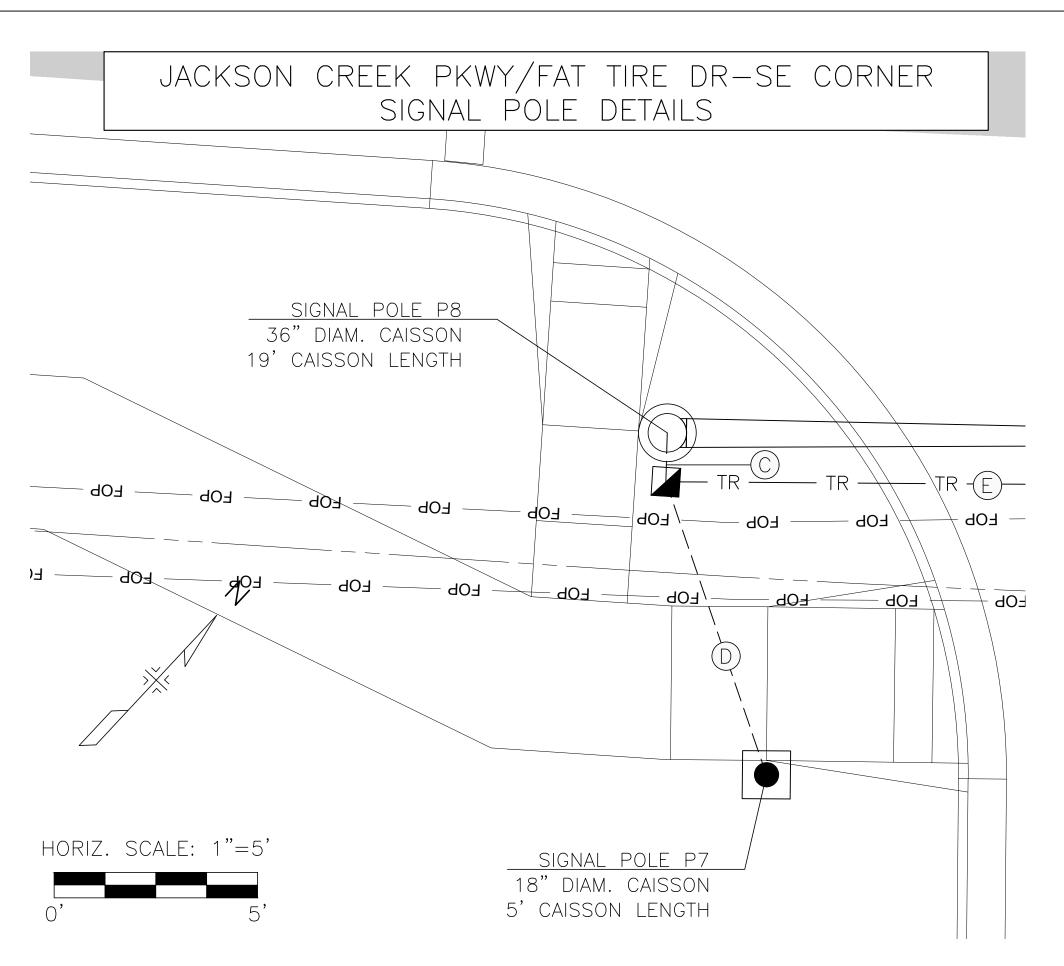


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AS CONSTRUCTED	JACKSON CREEK PAR	KWAY & FAT TIRE DRIVE	PROJECT NO./CODE		
NO. REVISIONS:	TRAFFIC SIGNAL GENERAL NOTES & TABULATIONS to revisions:				
REVISED:	DESIGNER: BJH	STRUCTURE			
	DETAILER: BEN.HARMS	NUMBERS			
VOID:	SHEET SUBSET: TRAFFIC	SHEET SUBSET: TT-01 OF 1			

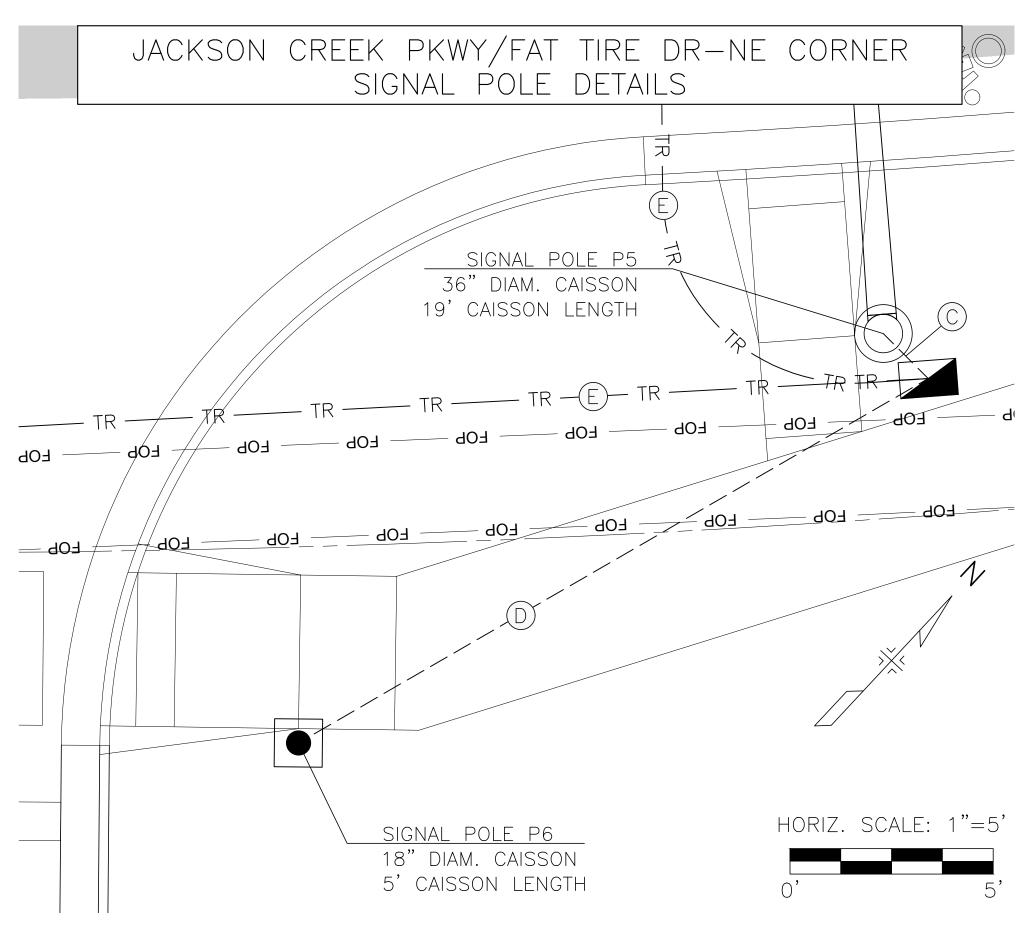








N/A



## LEGEND

PULL BOX (TYPE 5) (30"X48"X24")



PULL BOX (TYPE 4) (24"X36"X24")



PULL BOX (TYPE 3) (17"X30"X12")

TRAFFIC SIGNAL CONDUIT STREET CROSSINGS ---- TRAFFIC SIGNAL CONDUIT PULL BOX CONNECTIONS SIGNAL CONDUITS

POWER METER:

1-2"

(TRENCHED)

CONTROLLER SIGNAL POLES 1-2" AND 4-3" 1-2" AND 2-3"

(TRENCHED) (TRENCHED)

A B C

2-2" PEDESTAL POLE

(TRENCHED) (BORED)

STREET CROSSINGS

1-2" AND 2-3"

# NOTE:

- 1. PULL BOX AND CONDUIT LOCATIONS ARE APPROXIMATE ONLY. TO THE EXTENT POSSIBLE, THE CONTRACTOR SHALL INSTALL PULL BOXES OUTSIDE OF SIDEWALK AREAS; HOWEVER, IF PULL BOXES NEED TO BE PLACED WITHIN SIDEWALKS, THEY SHALL BE INSTALLED FLUSH WITH THE FINISHED SURFACE AND THE LIDS SHALL HAVE AN ANTI-SKID SURFACE TREATMENT. PULL BOXES SHALL NOT BE INSTALLED IN ANY CURB RAMPS.
- 2. TOP OF SIGNAL POLE AND PEDESTAL POLE CAISSONS SHALL BE INSTALLED TWO (2) INCHES ABOVE THE FINISHED GROUND SURFACE,
- (3.) POWER SOURCE IS LOCATED APPROXIMATELY 330 FEET NORTHEAST OF POWER METER LOCATION NEAR THE INTERSECTION OF LAUGHING LAB WAY AND JACKSON CREEK PARKWAY. CONTRACTOR SHALL COORDINATE INSTALLATION OF SERVICE WITH MOUNTAIN VIEW ELECTRIC ASSOCIATION CONTACT: JIM KENNEL | 719-494-2628 | JIM.K@MVEA.COOP.

### SCHEDULE OF TRAFFIC SIGNAL POLES

TRAFFIC SIGNAL POLE			STAKING L	OCATION AND	CAISSON	DETAILS
POLE ID	MAST	LUMMINAIRE ARM	NORTHING	EASTING	DIAMETER	DEPTH (FFFT)
P1	ARM 55 FT	15 FT ARM	1458586.13	3182771.47	(INCH) 36	(FEET) 19
P2	_	<del>_</del>		3182774.48		5
P3	40 FT	15 FT ARM	1458651.82	3182820.24	36	19
P4	_	_	1458654.62	3182834.29	18	5
P5	50 FT	15 FT ARM	1458578.11	3182917.50	36	19
P6	_	_	1458541.74	3182909.77	18	5
P7	_	_	1458498.19	3182861.73	18	5
P8	40 FT	15 FT ARM	1458507.69	3182845.80	36	19







PROJECT NO./CODE

121234-01

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FILE	NAME:	T123949-01SIG-PLN02.DWG	

HORIZ. SCALE: VARIES VERT. SCALE: 3 South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719.314.1800 FELSBURG

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SHEET REVISIONS COMMENTS INITIALS  $\mathbb{R}-X$ DATE



S CONSTRUCTED JACKSON CREEK PARKWAY & FAT TIRE DRIVI TRAFFIC SIGNAL POLE & CONDUIT DETAILS 10. REVISIONS:			Weili Belole J							
	S	CONSTRUCTE	DJACKSON	CREEK	PARKWAY	&	FAT	ΠRΕ	DRIVE	
	10.	REVISIONS:	TRAFFIC	SIGNAL	POLE &	CO	NDUIT	DE	TAILS	

). REVISIONS:					
VISED:	DESIGNER:	BJH	STRUCTURE		
	DETAILER:	BEN.HARMS	NUMBERS		
)ID:	SHEET SUBSET:	TRAFFIC	SHEET SUBSE	ET: TS-02 OF 3	

# JACKSON CREEK PKWY 4 \* 4 \* 6 \* 29.2 \* 6 \* 15.2 \* 4 \* 108\*

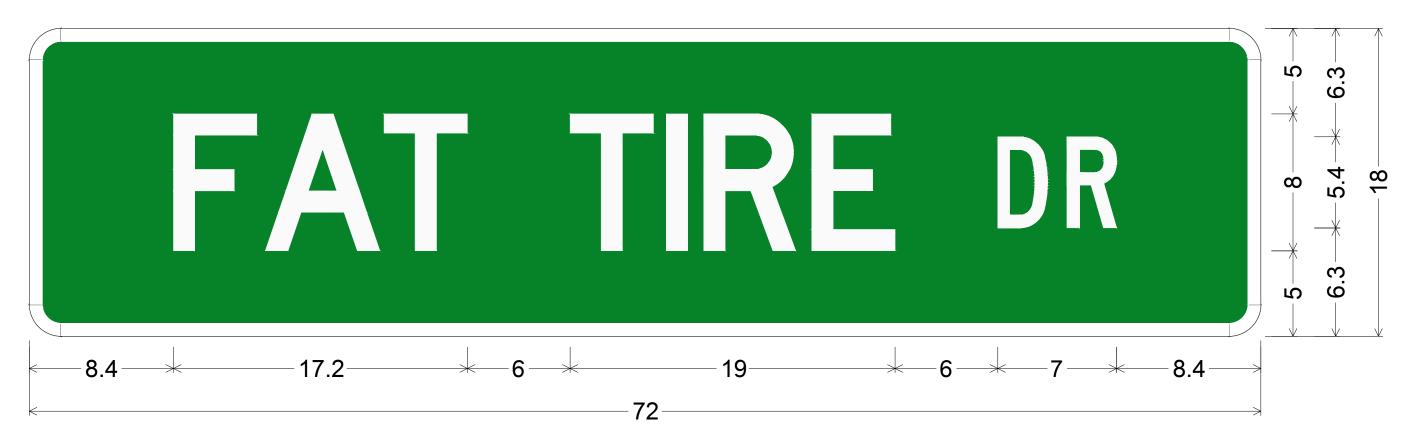
1.9" Radius, 0.8" Border, White on Green;

"JACKSON", D 50% spacing; "CREEK", D 50% spacing; "PKWY", C;

Table of distances between letter and object lefts

 J
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D-3

1.9" Radius, 0.8" Border, White on Green;

"FAT", D 50% spacing; "TIRE", D 50% spacing; "DR", C;

Table of distances between letter and object lefts

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 T
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PHASING KEY

PROTECTED MOVEMENT

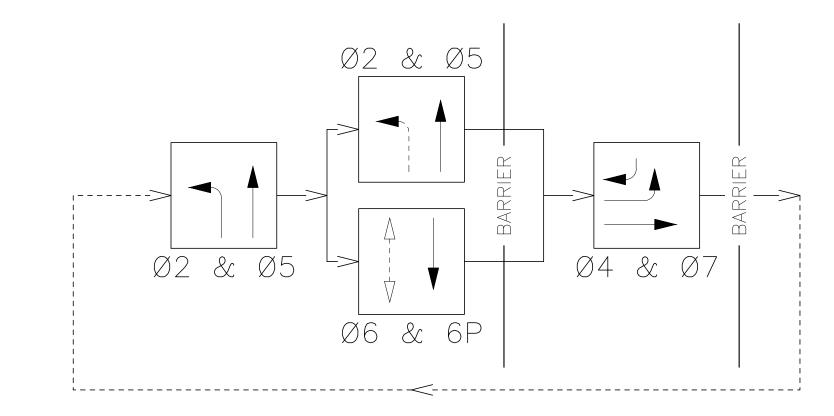
PERMISSIVE MOVEMENT

→ PED MOVEMENT

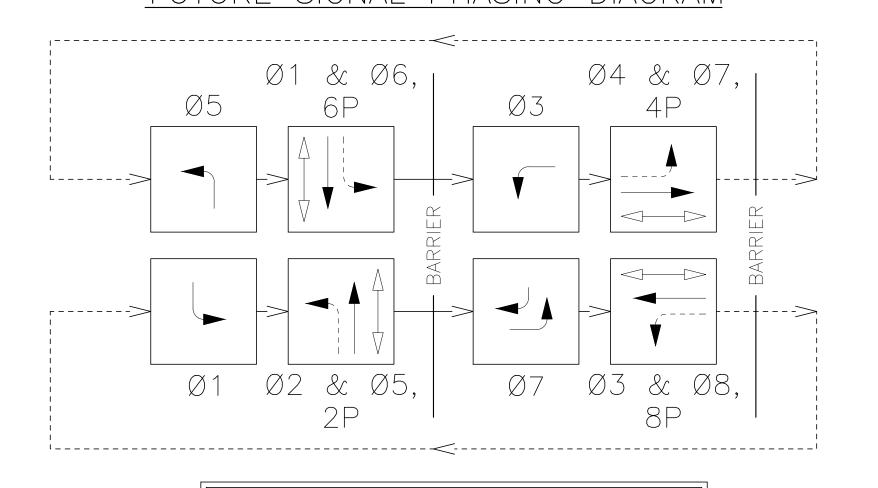
NOTES:

- 1. PEDESTRIAN INDICATIONS 2P & 6P SHALL BE PLACED IN RECALL MODE.
- 2. PHASES 1, 2, 5 & 6 ARE JACKSON CREEK PARKWAY. PHASES 3, 4, 7 & 8 ARE FAT TIRE DRIVE.

# INTERIM SIGNAL PHASING DIAGRAM



# FUTURE SIGNAL PHASING DIAGRAM



EMERGENCY FLASH SEQUENCE

JACKSON CREEK PKWY = YELLOW

FAT TIRE DR = RED



PRINT DATE: 01/29/2024 2:20 PM						
FILE NAME: T123949-01SIG-PLN03.DWG						
HORIZ. SCALE:	N/A VERT. SCALE:	N/A				
FELSBURG 3 South Tejon Street, Suite 300						

. 00/122.	11) / 1
FELSBURG HOLT & ULLEVIG	3 South Tejon Street, Suite 300 Colorado Springs, CO 80903 Phone: 719.314.1800 www.FHUENG.com

		SHEET REVISIONS	
(R-X)	DATE	COMMENTS	INITIALS



						4000
AS CONSTRUCTED	JACKSON	CREEK PARK STREET NAME	WAY & F	AT T	IRE DRIVE	PROJECT NO./CODE
NO. REVISIONS:		SIILLI IVAIVIL	. SIGN LA	1001		121234-01
REVISED:	DESIGNER:	BJH	STRUCTURE			
	DETAILER:	BEN.HARMS	NUMBERS			
VOID:	SHEET SUBS	ET: TRAFFIC	SHEET SUBS	SET:	TS-03 OF 3	