

RICK ENGINEERING COMPANY SPECIAL NOTES:

- 1. ANY QUESTION RAISED RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL NOT BE RAISED SUBSEQUENT TO COMPLETION OF THE WORK UNLESS ALL SURVEY STAKES ARE MAINTAINED INTACT. SHOULD SUCH STAKES NOT BE PRESENT AND VERIFIED AS TO THEIR ORIGIN, NO CLAIM FOR ADDITIONAL COMPENSATION FOR CORRECTION SHALL BE PRESENTED TO ANY PARTY AND SUCH WORK SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
- 2. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 3. NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- 4. THE CONTRACTOR SHALL FOLLOW THE GUIDELINES AND REGULATIONS AS SET FORTH BY OSHA
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL UTILITIES ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT 303-537-8020. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM HIS OPERATIONS BY APPROPRIATE MEANS (TEMPORARY EROSION CONTROL BMP'S) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATIONS IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
- 6. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF THE AVAILABLE RECORDS AND UNDERGROUND UTILITY LOCATING SERVICE AT AN ASCE 38-02 MINIMUM LEVEL B. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE AND ELECTRIC CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION AND TO OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER AND/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM SAME.
- 8. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATIONS OF EXISTING FACILITIES.
- 9. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY.
- 10. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- 11. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
- 12. WHERE TRENCHES ARE WITHIN EASEMENTS OR WITHIN 10' OF ANY BUILDING, A SOILS REPORT SHALL BE SUBMITTED TO THE ENGINEER OF WORK BY A QUALIFIED SOILS ENGINEER WHICH INDICATES THAT TRENCH BACKFILL WAS COMPACTED UNDER THE OBSERVATION OF THE SOILS ENGINEER AND IN ACCORDANCE WITH THE ABOVE-NAMED SPECIFICATIONS.
- 13. ALL FRAMES, COVERS, VALVE BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.

GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE PWSO ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION, THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA, THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA, THE ENVIRONMENTAL PROTECTION AGENCY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- 2. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER THE CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS CONTACT THE PWSO IMMEDIATELY.
- 3. PWSO ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING STREET CUTS, UTILITY INTERFERENCE AND TRAFFIC CONTROLS.
- 5. ALL CONCRETE SHALL BE A MINIMUM OF CLASS A, 6 SACK, TYPE II, 3000-POUND COMPRESSION STRENGTH. ALL CONCRETE ASSOCIATED WITH ROADWAY CONSTRUCTION SHALL BE CLASS D.
- 6. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF "AS-BUILT" DRAWINGS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL BY DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL-SIZED PRINTS SHALL BE TRANSMITTED TO THE PWSO OFFICE.
- 7. NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TESTS MUST BE SUBMITTED TO DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
- 8. ALL CURBS SHALL BE CAREFULLY AND FIRMLY BACKFILLED BY THE CONTRACTOR. ANY EXCESS MATERIAL FROM SUBGRADE TRIMMING SHALL NOT BE LEFT IN THE STREET CORE, BUT SHALL BE SPREAD UNIFORMLY IN A 20-FOOT WIDE ZONE BEHIND THE WALK.
- 9. REFER TO OVERLOT GRADING AND EROSION CONTROL PLANS FOR GRADING NOTES.
- 10. EXPANSION JOINTS WILL BE PLACED IN ALL SIDEWALKS AND CURB AND GUTTER AT PCS, PTS, AND AT ANY FIXED OBJECT, BUT IN NO CASE MORE THAN 500 FT APART.
- 11. THE APPLICANT IS PBSI CHAMBERS & HESS UNITS, LLC.
- 12. THE UTILITY CONTRACTOR THAT INSTALLS SANITARY SEWER, STORM SEWER AND WATER SHALL, AFTER PROPERLY COMPLETING THE WORK, WALK THE SITE WITH THE OWNER'S REPRESENTATIVE(S) TO INSPECT MANHOLES, HYDRANTS, VALVE BOXES, AND INLETS PRIOR TO THE START OF WORK BY THE CURB, GUTTER AND WALK CONTRACTOR. A SIMILAR FIELD INSPECTION SHALL OCCUR WITH THE UTILITY CONTRACTOR AND CURB CONTRACTOR TO INSPECT THESE ITEMS PLUS CURB STOP BOXES AND CONCRETE WORK PRIOR TO THE START OF WORK BY THE PAVING CONTRACTOR. THESE FIELD INSPECTIONS ARE INTENDED TO HELP ESTABLISH RESPONSIBILITY FOR ANY NECESSARY REPAIRS, CLEANING, ETC. THAT ARE NEEDED. THESE INSPECTIONS WITH A REPRESENTATIVE OF THE OWNER ARE IN ADDITION TO ANY INSPECTIONS BY REPRESENTATIVES OF THE TOWN OF PARKER OR PARKER WATER AND SANITATION DISTRICT.
- 13. ALL TESTING AND INSPECTION FOR COMPLIANCE WITH TOWN OF PARKER STANDARDS SHALL BE COMPLETED BEFORE ANY CONDITIONAL ACCEPTANCE.
- 14. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF ROLLED "AS-BUILT" DRAWINGS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL PRIOR TO PRINTING MYLAR DRAWINGS FOR THE DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZED MYLAR PRINTS SHALL BE TRANSMITTED TO THE PWSO OFFICE AND AN ADDITIONAL SET OF ROLLED PRINTS SHALL BE TRANSMITTED TO THE DISTRICT ENGINEER'S OFFICE PRIOR TO PROBATIONARY ACCEPTANCE.
- 15. TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
- 16. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND SEWER) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO COST TO THE DISTRICT.
- 17. SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
- 18. NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER.
- 19. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SERVICE SEWERS
"V" FOR WATER SERVICES
- 20. NO TREES ALLOWED IN EASEMENTS OR WITHIN 8' OF WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY. NO TREES ALLOWED WITHIN 7' OF THE EDGE OF ANY STORM SEWER.
- 21. BENCHMARKS:
DOUGLAS COUNTY:
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND REPAIR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION, WHETHER SHOWN ON THESE PLANS OR NOT. CONTRACTOR SHALL CONTACT REPRESENTATIVES OF THE RESPECTIVE UTILITIES AND HAVE ALL UTILITIES FIELD LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE DRAWINGS, TO ASCERTAIN WHETHER ANY STRUCTURES AND UTILITIES MAY EXIST, AND REPAIR AND/OR REPLACE ANY STRUCTURES AND/OR UTILITIES THAT ARE DAMAGED BY THE CONTRACTOR.
- 23. ALL DIMENSIONS AND RADII ARE TO FLOW LINE UNLESS OTHERWISE NOTED.
- 24. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A SET OF "AS-BUILT" PLANS MARKED WITH ALL DEVIATIONS FROM THE CONSTRUCTION PLANS PRIOR TO INITIAL ACCEPTANCE.
- 25. ALL STATIONING IS ON CENTERLINE OF RIGHT OF WAY UNLESS OTHERWISE NOTED.

ROADWAY NOTES:

- 1. PAVING SHALL NOT COMMENCE UNTIL A SOILS REPORT AND PAVEMENT DESIGN IS APPROVED BY THE ENGINEERING DIVISION AND SUB-GRADE COMPACTION TESTS ARE SUBMITTED TO AND APPROVED BY THE DEVELOPMENT REVIEW ENGINEER.
- 2. STANDARD TOWN OF PARKER CURB RAMPS ARE TO BE CONSTRUCTED AT ALL CURB RETRUNS AND "T" INTERSECTIONS.
- 3. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
- 4. ALL ELEVATIONS ARE ON USGS DATUM WITH DATE. RANGE POINT OR MONUMENT SHALL BE SHOWN ON THE CONSTRUCTION PLANS.
- 5. EXCEPT WHERE OTHERWISE PROVIDED FOR IN THESE PLANS AND SPECIFICATIONS, THE COLORADO DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE COLORADO DEPARTMENT OF HIGHWAYS M-STANDARDS AND THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL, LATEST EDITION, SHALL APPLY.

CONSTRUCTION NOTES:

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE LATEST EDITION OF THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL AND THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL.
- 2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT. THE TOWN RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- 3. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE GRADING PERMIT AND ALL OTHER NECESSARY PERMITS HAVE BEEN OBTAINED.
- 4. A DEVELOPMENT REVIEW ENGINEER SHALL BE CONTACTED A MINIMUM OF 24 HOURS PRIOR TO A NECESSARY INSPECTION. IF A DEVELOPMENT REVIEW ENGINEER IS NOT AVAILABLE AFTER PROPER NOTICE OF CONSTRUCTION ACTIVITY HAS BEEN PROVIDED, THE PERMITTEE MAY COMMENCE WORK IN THE DEVELOPMENT REVIEW ENGINEER'S ABSENCE; HOWEVER, TOWN OF PARKER RESERVES THE RIGHT TO REJECT THE IMPROVEMENT IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
- 5. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION, CONTACT DENVER INTER-UTILITY GROUP AT 303-534-6700 OR 1-800-922-1987. THE CONTRACTOR SHALL FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS, APPROVED BY THE TOWN OF PARKER PUBLIC WORKS DIRECTOR, AND ONE (1) COPY OF THE ROADWAY DESIGN AND CONSTRUCTION CRITERIA AT THE JOB SITE AT ALL TIMES.
- 7. ALL PROSPED STREET CUTS TO EXISTING PAVEMENTS FOR UTILITIES, STORM SEWER, OR FOR OTHER PURPOSES ARE LISTED AND REFERENCED BELOW:
WATER TIE IN:
SANITARY SEWER CONNECTION
STORM SEWER CONNECTION
A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE TOWN OF PARKER FOR ACCEPTANCE WITH THE RIGHT OF WAY PERMIT USE APPLICATION. A PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR USE DURING CONSTRUCTION.
- 9. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION"
- 10. COMPACTION OF ALL TRENCHES MUST BE ATTAINED AND COMPACTION TEST RESULTS SUBMITTED TO THE DEVELOPMENT REVIEW ENGINEER IN PRELIMINARY FORM PRIOR TO PAVING AND IN FINAL FORM PRIOR TO PROBATIONARY ACCEPTANCE.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. THE PLAN MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH APPROVAL FROM THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT.
- 12. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN PROPER TRAFFIC CONTROL DEVICES UNTIL THE SITE IS OPEN TO TRAFFIC. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 13. PLANS ARE APPROVED FOR ONE (1) YEAR FROM THE DATE SHOWN ON THE TOWN OF PARKER SIGNATURE BLOCK. PLANS SHALL BE RESUBMITTED TO THE TOWN FOR APPROVAL AFTER ONE (1) YEAR. THE COST OF THE PLAN RE-REVIEW AND RE-ACCEPTANCE WILL BE CHARGED BACK TO THE DEVELOPER INCLUDING ALL TIME AND EXPENSES OF THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT.
- 14. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 15. ALL DAMAGED EXISTING CURB, GUTTER, AND SIDEWALK SHALL BE REPAIRED PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.
- 16. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY". FOR INFORMATION, PLEASE CONTACT COLORADO DEPARTMENT OF HEALTH, WATER QUALITY CONTROL DIVISION, WOOD-PE-B2, 4300 CHERRY DRIVE SOUTH, DENVER, COLORADO, 80222-1530. ATTN: PERMITS AND ENFORCEMENT SECTION. PHONE: 303-692-3500
- 17. IF DEWATERING IS REQUIRED, A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT IS REQUIRED FOR DISCHARGES TO A STORM SEWER, CHANNEL, IRRIGATION DITCH, ANY STREET THAT IS TRIBUTARY TO THE FOREMENTIONED FACILITIES OR ANY WATER OF THE UNITED STATES.
- 18. ALL REFERENCES TO BOOKS, PAGES, MAPS AND RECEPTION NUMBER ARE PUBLIC DOCUMENTS ON FILE WITH THE COUNTY CLERK AND RECORDERS OFFICE.

UDFCD NOTE:

- 1. THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT MAY CONDUCT SITE VISITS DURING PROJECT CONSTRUCTION WITHIN OR NEAR THE CHANNEL TO OBSERVE CONSTRUCTION FOR CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. COORDINATION WITH THE UDFCD CONSTRUCTION MANAGER IS REQUIRED 48 HOURS PRIOR TO ANY CONSTRUCTION. CONTACT MIKE SARMENTO, UDFCD CONSTRUCTION MANAGER AT 303-455-6277, WSARMENTO@UDFCD.ORG

PARKER STANDARD STORM DRAINAGE INFRASTRUCTURE NOTES:

- 1. ALL STORM DRAINAGE IMPROVEMENTS ARE SUBJECT TO COMPLIANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, M & S STANDARDS, AND ALL STANDARD SPECIAL PROVISIONS CURRENTLY USED BY CDOT, WITH THE MODIFICATIONS SET FORTH IN THE TOWN OF PARKER'S STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL (SDECM), AS AMENDED.
- 2. THE CONTRACTOR SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8 CRS), THE "PROTECTION OF FISHING STREAMS" TITLE 33, ARTICLE 5, CRS), THE "CLEAN WATER ACT" (33 USC 1344), CHERRY CREEK RESERVOIR CONTROL REGULATION NO. 72" (5 CCR 1002-72), THE REGULATION PROMULGATED, CERTIFICATION OR PERMITS ISSUES, AND THE REQUIREMENTS PRESENTED IN THE SDECM REVISION TO SECTION 107 AND THE CONSTRUCTION BMP PLAN. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- 3. INSPECTIONS: CONSTRUCTION SHALL NOT BEGIN UNTIL A GRADING PERMIT HAS BEEN ISSUED FOR THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE TOWN OF PARKER ENGINEERING DEPARTMENT (PUBLIC WORKS) TO SCHEDULE INSPECTIONS A MINIMUM OF 48 HOURS PRIOR THE CONSTRUCTION OF ALL DRAINAGE INFRASTRUCTURE (STORM SEWERS, INLETS, MANHOLES, ENERGY DISSIPATORS, RIPRAP, GROUTED BOULDERS, DETENTION POND OUTLET STRUCTURES, FOREBAYS, TRICKLE CHANNELS, ETC). FAILURE TO NOTIFY THE ENGINEERING DEPARTMENT FOR INSPECTIONS MAY RESULT IN NON-ACCEPTANCE OF THE INFRASTRUCTURE BY THE TOWN. URBAN DRAINAGE AND FLOOD CONTROL DISTRICT MUST ALSO BE NOTIFIED IN A SIMILAR MANNER FOR ALL MAINTENANCE ELIGIBLE DRAINAGE INFRASTRUCTURES (CONSULT WITH STORMWATER ENGINEERING DIVISION).
- 4. STRUCTURAL BACKFILL (CDOT CLASS 1) SHALL BE COMPACTED TO CONFORM TO CDOT STANDARD SPECIFICATION 203.03. STRUCTURAL BACKFILL (CDOT CLASS 2) SHALL CONFORM TO CDOT STANDARD SPECIFICATION 203.07. AT THE CONTRACTOR'S OPTION, STRUCTURAL BACKFILL (SQUEEGEE) MEETING THE GRADATION REQUIREMENTS CONTAINED IN REVISION OF SECTION 206 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM, MAY BE SUBSTITUTED FOR STRUCTURE BACKFILL

- (CLASS 1) OR CLASS 2) FOR BACKFILLING OF CULVERT PIPES, STORM SEWER PIPES, MANHOLES AND INLET STRUCTURES; HOWEVER, THE TOP 2 FEET BELOW SUBGRADE ELEVATION SHALL BE THE REQUIRED EMBANKMENT MATERIAL.
- 5. ALL EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
- 6. TESTING: PROBATIONARY ACCEPTANCE OF STORM DRAINAGE IMPROVEMENTS WILL BE CONTINGENT UPON SATISFACTORY TESTING RESULTS. IN ALL CASES WHERE TESTS INDICATE COMPACTION LESS THAN THAT REQUIRED BY TOWN SPECIFICATIONS, ADDITIONAL COMPACTION AND TESTS WILL BE REQUIRED UNTIL THE SPECIFICATIONS ARE MET. FREQUENCY OF TESTING WILL BE AS FOLLOWS: 1 TEST FOR SUBGRADE AND 1 TEST FOR BACKFILL AT EVERY ABOVE GROUND APPURTENANCE (MANHOLES, INLETS, ETC) 1 TEST EVERY 200 LF OF MAINLINE TRENCH EVERY 1 FOOT OF BACKFILL LIFT AND WITHIN 1 FOOT FROM ALL STRUCTURES.
- 7. ALLOWABLE STORM SEWER CONDUIT MATERIAL WITHIN THE TOWN OF PARKER SHALL BE LIMITED TO REINFORCED CONCRETE PIPE (RCP) CONFORMING TO CDOT STANDARD SPECIFICATION 706.02.
- 8. ALL RCP JOINTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C443. RUBBER GASKETS SHALL BE USED ON ALL PIPE JOINTS CONFORMING TO ASTM C443. ALL RCP SECTIONS SHALL BE JOINED IN SUCH A TOWN OF PARKER PAGE 2 OF 2 MANNER THAT THE ENDS ARE FULLY ENDED AND THE INNER SURFACES ARE REASONABLE FLUSH. AVERAGE JOINT GAP THAT EXCEEDS 1/8 INCH SHALL BE FILLED WITH AN APPROVED FLEXIBLE PLASTIC SEALANT.
- 9. JOINT RESTRAINTS AND TOE-WALLS, CONFORMING TO CDOT M&S STANDARD PLAN NO. M-601-11 SHALL BE USED ON ALL RCP FLARED END SECTION OUTFALLS.
- 10. EPOXY COATED REBAR SHALL BE USED AS REINFORCING STEEL ON ALL STORM INLETS AND STRUCTURES. REFERENCE CDOT M&S STANDARD PLAN NO. M-604-10, 11, 12, AND 13.
- 11. CDOT CLASS D CONCRETE SHALL BE USED FOR ALL CONCRETE DRAINAGE STRUCTURES.
- 12. PRE-CAST INLETS AND MANHOLE BASES SHALL NOT BE USED WITHIN THE TOWN OF PARKER RIGHT-OF-WAY, WITH THE EXCEPTION OF CDOT TYPE C AND D INLETS.
- 13. TWO- (2) MANHOLE ACCESS POINTS ARE REQUIRED ON ALL TYPE "R" CURB INLETS GREATER THAN OR EQUAL TO TEN (10) FEET IN LENGTH AS PRESENTED IN CDOT M&S STANDARD PLAN NO. M-604-12.
- 14. ALL GROUTING (BOULDERS, RIPRAP) SHALL BE IN ACCORDANCE WITH THE REVISION OF SECTION 506 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM.
- 15. ALL BOULDERS AND RIPRAP SHALL BE SELECTED AND PLACED IN ACCORDANCE WITH THE REVISION OF SECTION 506 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM.
- 16. CONTRACTOR SHALL REFER TO THE TOWN OF PARKER'S CONSTRUCTION BEST MANAGEMENT PRACTICES DETAILS AND NOTES FOR ALL REQUIREMENTS RELATING TO RE-VEGETATION, SEDIMENT AND EROSION CONTROL REQUIREMENTS FOR CONSTRUCTION ACTIVITIES.
- 17. PIPE BELLS SHALL NOT BE CAST INTO MANHOLE BASES OR INLETS.

SIGNAGE AND STRIPING NOTES:

- 1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT VERSION OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), COLORADO SUPPLEMENTAL MUTCD, AND THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL. FURTHER SPECIFICATIONS AND ILLUSTRATIONS ARE LOCATED IN THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) M&S STANDARDS.
- 2. A FIELD INSPECTION OF LOCATION AND INSTALLATION OF ALL SIGNS, AND MARKING SHALL BE PERFORMED BY THE TOWN OF PARKER.
- 3. THE CONTRACTOR INSTALLING SIGNS SHALL BE RESPONSIBLE FOR THE LOCATING AND PROTECTING OF ALL UNDERGROUND UTILITIES.
- 4. TYPE III (LIGHTED) BARRICADES SHALL BE SET AT THE ENDS OF ROADWAYS SEPARATING FINISHED (AND/OR ACCEPTED) AND UNFINISHED CONSTRUCTION AREAS AND SHALL BE MAINTAINED BY THE CONTRACTOR/DEVELOPER. "ROAD CLOSED AHEAD" AND "TO BE EXTENDED" WARNING SIGNS SHALL BE INSTALLED APPROPRIATELY IN ADVANCE OF THE TYPE III BARRICADES.
- 5. SPECIAL CARE SHALL BE TAKEN IN SIGN LOCATIONS TO ENSURE AN UNOBSTRUCTED VIEW OF EACH SIGN.
- 6. WHERE STOP SIGN CONTROL IS APPROPRIATE, 36-INCH STOP SIGNS SHALL BE USED FOR APPROXIMATES TO ANY ROADWAY THAT IS CLASSIFIED AS A COLLECTOR OR GREATER.
- 7. A 7-FOOT MINIMUM POST LENGTH SHALL BE MAINTAINED FROM THE BOTTOM OF THE SIGN PANEL TO THE GROUND. THIS REQUIREMENT FOR VERTICAL CLEARANCE IS FOR ALL SIGNS.
- 8. DELINEATION OF ROADWAYS SHALL BE AS SPECIFIED IN THE COLORADO DEPARTMENT OF TRANSPORTATION M&S STANDARDS.
- 9. RAISED MEDIAN ISLAND NOSES SHALL HAVE R4-7 SIGNS AT EACH END.
- 10. SIGNAGE AND STRIPING HAVE BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF REVIEW. PRIOR TO THE INITIATION OF ANY WARRANTY PERIOD, THE TOWN OF PARKER RESERVES THE RIGHT TO REQUIRE MODIFICATIONS TO EXISTING OR INSTALLATION OF, ADDITIONAL SIGNAGE AND/OR PAVEMENT MARKING IF IT IS DETERMINED THAT CONDITIONS WARRANT SUCH MODIFICATION ACCORDING TO THE MUTCD OR THE CDOT M&S STANDARDS. ALL SIGNAGE AND STRIPING SHALL FALL UNDER THE REQUIREMENTS OF THE TWO-YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION. ADDITIONALLY, ALL PAVEMENT MARKING SHALL NOT LIFT OR PEEL DURING THE FIRST YEAR AFTER INSTALLATION
- 11. DIAMOND GRADE MATERIAL SHALL BE USED ON ALL STOP SIGN AND OVERHEAD SIGNS. ALL OTHER ROADSIDE SIGNS SHALL USE HIGH-INTENSITY GRADE SHEETING. NO FLOURESCENT YELLOW-GREEN SHEETING SHALL BE USED UNLESS SPECIFICALLY APPROVED BY THE TOWN OF PARKER.
- 12. ALL STREET NAME SIGNS SHALL BE HIGH INTENSITY, EXTRUDED, GREEN AND WHITE BLADES. ARTERIAL AND COLLECTOR STREET NAME SIGNS SHALL BE 9-INCH BLADES AND HAVE MIXED CASE LETTERING. LOCAL STREET NAME SIGNS SHALL BE 6-INCH BLADES WITH ALL MIXED CASE LETTERING.
- 13. ALL LAYOUTS FOR INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE SUBMITTED TO THE TOWN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 14. ALL REMOVED SIGNS SHALL BE RETURNED TO THE TOWN OF PARKER.

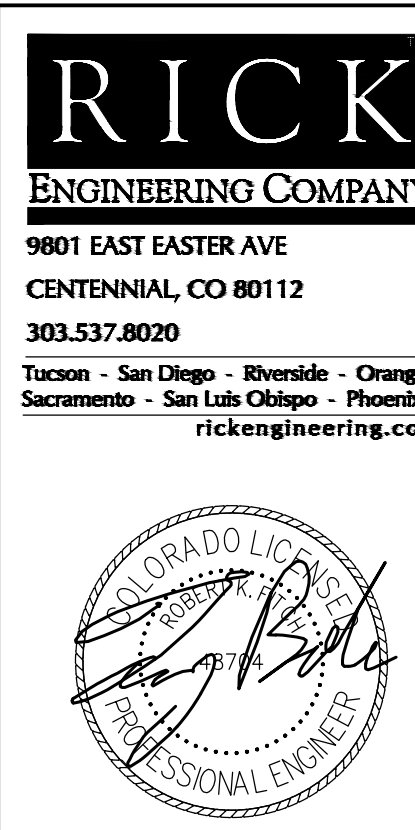
TOWN OF PARKER APPROVALS

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TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS DATE

ROADWAY & STORM DRAIN PLANS FOR DOUGLAS 234 FILING, NO. 6
DOUGLAS COUNTY, COLORADO



REVISIONS:

NO.	DESCRIPTION	DATE:
1	-	-

SCALE: NTS
DATE: 2/19/2021
DRAWN BY: WD
CHECKED BY: JS
JOB NO: D01173-A

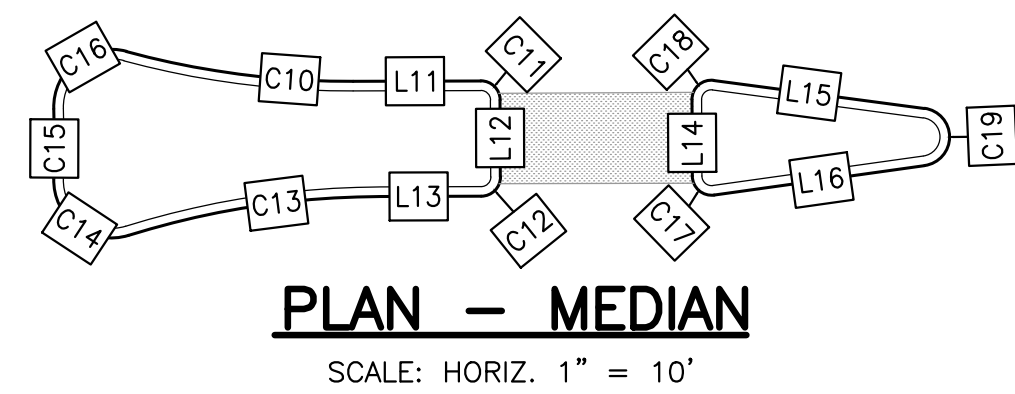
NOTES SHEET

PROJECT NO. D01173-A
DRAWING NO. 2
SHEET NO. 2 OF 25 SHEETS

2021-10-19 10:29 AM 2021-10-19 10:29 AM

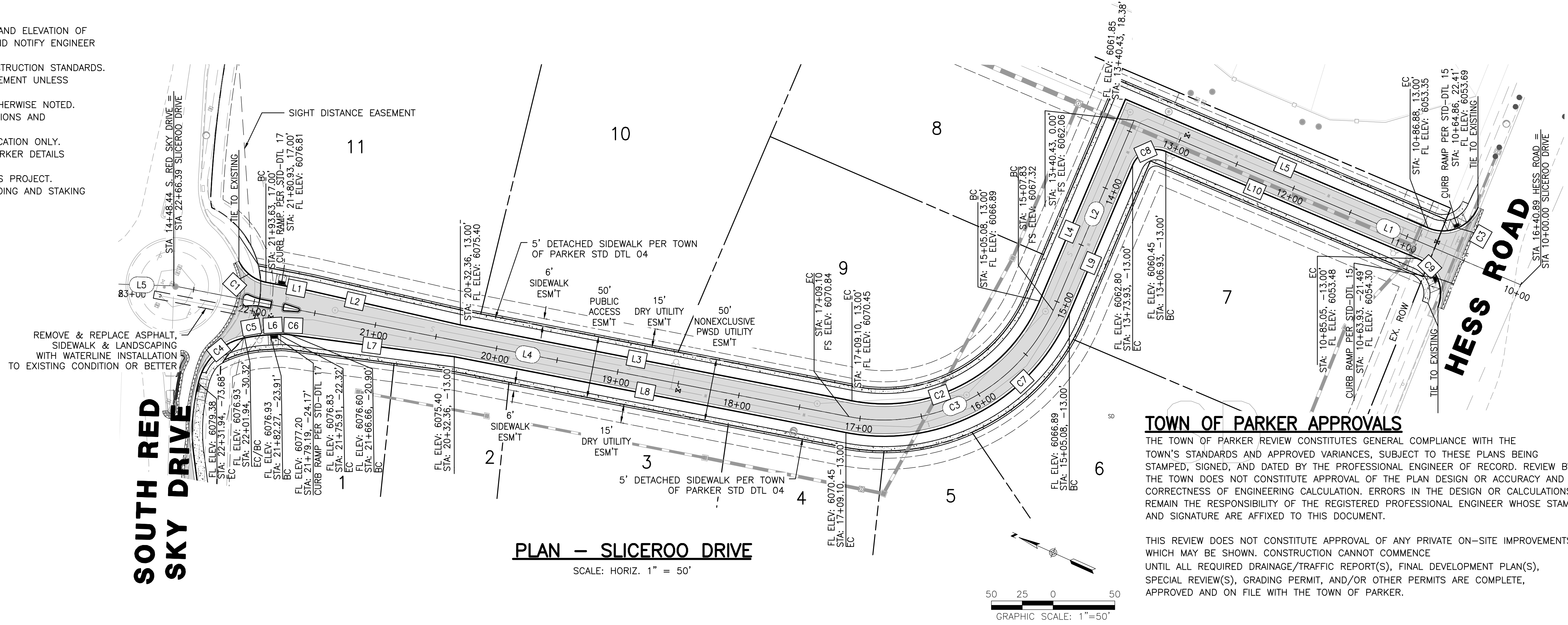
ROADWAY NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION, AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- REFER TO GENERAL NOTES ON SHEET 2 FOR ALL APPLICABLE CONSTRUCTION STANDARDS.
- ALL ROAD ELEVATIONS SHOWN IN PROFILE ARE CENTERLINE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL STATIONING OFFSETS ARE TAKEN FROM CENTERLINE UNLESS OTHERWISE NOTED.
- ACCESSIBLE RAMP SYMBOLS SHOWN ON THESE PLANS ARE FOR LOCATION ONLY. ACCESSIBLE RAMPS SHALL BE CONSTRUCTED PER THE TOWN OF PARKER DETAILS INCLUDED IN THIS PLAN SET.
- REFER TO SHEET 25 FOR TYPICAL STREET SECTIONS USED FOR THIS PROJECT.
- REFER TO SHEET 19 FOR DETAILED INTERSECTION AND MEDIAN GRADING AND STAKING INFORMATION.



CURVE #/LINE #	LENGTH	BEARING/DELTA	RADIUS	TYPE
C1	28.89'	054°15'55"	30.50'	TYPE 2 SECTION II-B
C2	186.34'	077°55'45"	137.00'	TYPE 2 SECTION II-B
C3	48.60'	091°17'40"	30.50'	TYPE 2 SECTION II-B
C4	55.81'	066°37'21"	48.00'	TYPE 2 SECTION II-B
C5	20.70'	007°54'24"	150.00'	TYPE 2 SECTION II-B
C6	9.37'	010°44'07"	50.00'	TYPE 2 SECTION II-B
C7	221.70'	077°55'45"	163.00'	TYPE 2 SECTION II-B
C8	32.20'	090°00'00"	20.50'	TYPE 2 SECTION II-B
C9	47.30'	088°50'50"	30.50'	TYPE 2 SECTION II-B
C10	11.95'	015°22'48"	44.50'	TYPE 2 SECTION II-B
C11	1.57'	090°00'00"	1.00'	TYPE 2 SECTION II-B
C12	1.57'	090°00'00"	1.00'	TYPE 2 SECTION II-B
C13	13.32'	017°08'53"	44.50'	TYPE 2 SECTION II-B
C14	5.72'	109°10'54"	3.00'	TYPE 2 SECTION II-B
C15	3.62'	003°40'19"	56.50'	TYPE 2 SECTION II-B
C16	5.60'	107°01'06"	3.00'	TYPE 2 SECTION II-B
C17	1.71'	097°45'55"	1.00'	TYPE 2 SECTION II-B
C18	1.71'	097°45'55"	1.00'	TYPE 2 SECTION II-B
C19	4.31'	164°28'11"	1.50'	TYPE 2 SECTION II-B
L1	36.28	S13°07'09"E	N/A	TYPE 2 SECTION II-B
L2	125.06	S11°17'10"E	N/A	TYPE 2 SECTION II-B
L3	323.25	S13°07'09"E	N/A	TYPE 2 SECTION II-B
L4	177.65	N88°57'06"E	N/A	TYPE 2 SECTION II-B
L5	266.55	S1°02'54"E	N/A	TYPE 2 SECTION II-B
L6	6.56	N27°13'09"W	N/A	TYPE 2 SECTION II-B
L7	134.54	N16°29'02"W	N/A	TYPE 2 SECTION II-B
L8	323.25	S13°07'09"E	N/A	TYPE 2 SECTION II-B
L9	131.15	N88°57'06"E	N/A	TYPE 2 SECTION II-B
L10	221.89	S1°02'54"E	N/A	TYPE 2 SECTION II-B
L11	6.64	S89°48'14"W	N/A	TYPE 2 SECTION II-B
L12	4.00	N0°11'46"W	N/A	TYPE 2 SECTION II-B
L13	5.25	N89°48'14"E	N/A	TYPE 2 SECTION II-B
L14	3.98	N0°11'46"W	N/A	TYPE 2 SECTION II-B
L15	11.07	S82°25'51"E	N/A	TYPE 2 SECTION II-B
L16	11.07	S82°02'20"W	N/A	TYPE 2 SECTION II-B

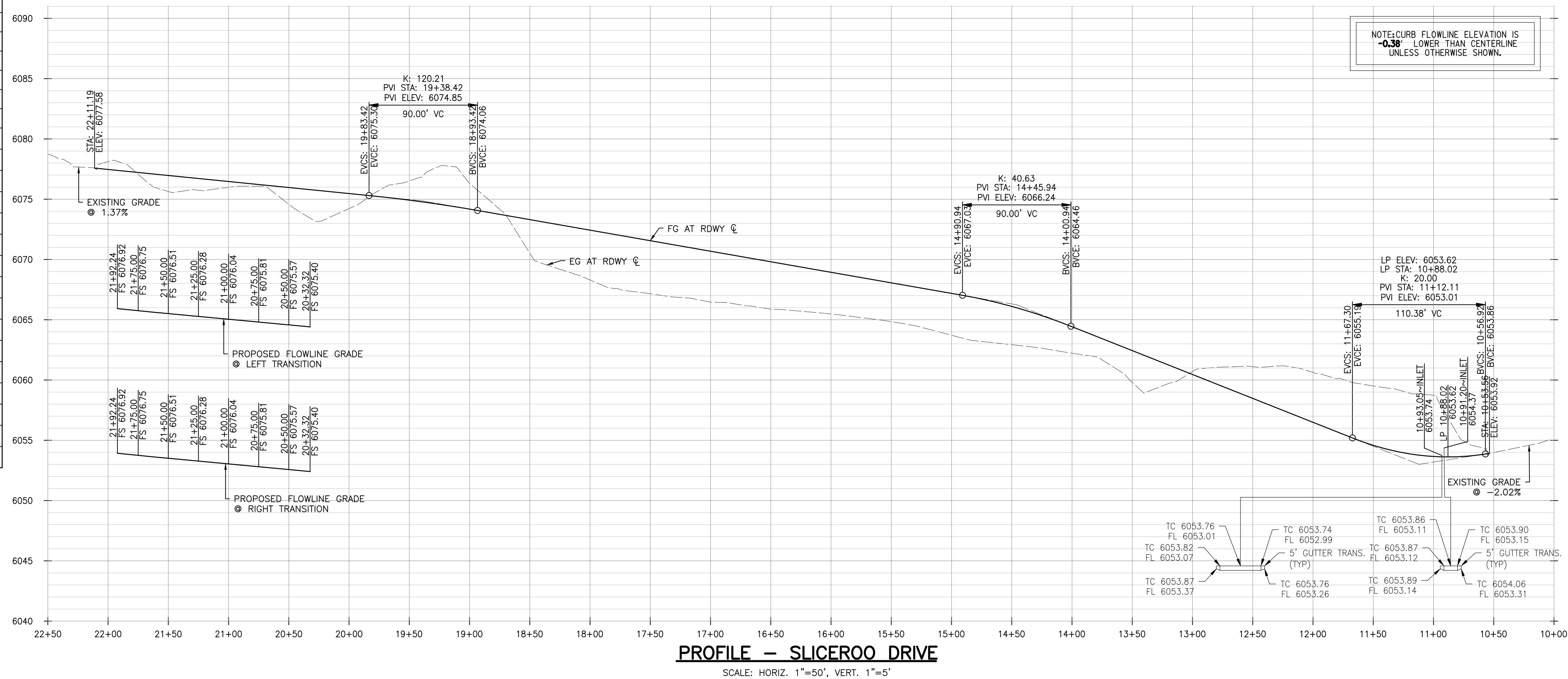
CURVE #/LINE #	RADIUS	LENGTH	DELTA (Δ)	DIRECTION
C3	150.00'	204.02'	77°55'45"	N52° 05' 01.35"W
L1	N/A	340.43'	N/A	N1° 02' 54.00"W
L2	N/A	164.65'	N/A	S88° 57' 06.00"W
L4	N/A	557.29'	N/A	N13° 07' 08.70"W
L5	N/A	51.95'	N/A	N22° 15' 46.00"W



TOWN OF PARKER APPROVALS
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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____



ROADWAY & STORM DRAIN PLANS FOR DOUGLAS 234 FILING, NO. 6
DOUGLAS COUNTY, COLORADO

RICK ENGINEERING COMPANY
9801 EAST EASTER AVE
CENTENNIAL, CO 80112
303.537.8020
Tucson - San Diego - Riverside - Orange
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REVISIONS:

NO.	DESCRIPTION	DATE:
1		

SCALE: 1" = 50'
DATE: 2/19/2021
DRAWN BY: WD
CHECKED BY: JS
JOB NO: D01173-A

SLICEROO DR PLAN & PROFILE

PROJECT NO. D01173-A
DRAWING NO. 15
SHEET NO. 15 OF 25 SHEETS

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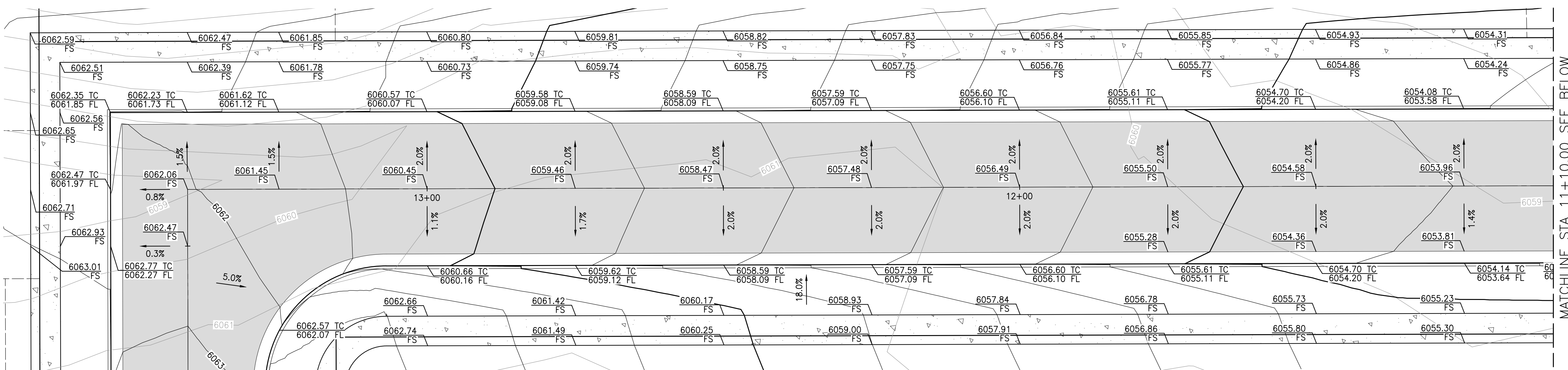
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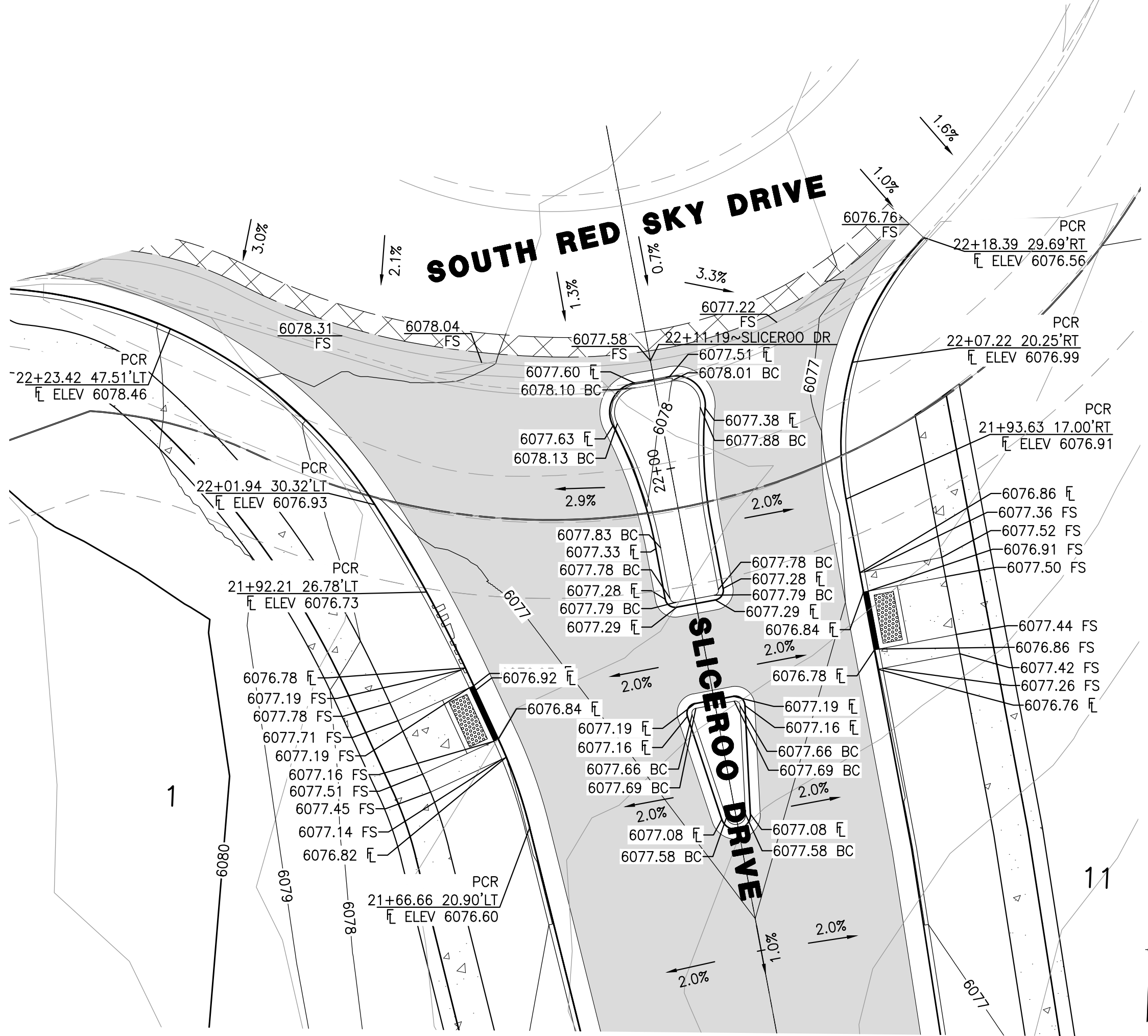
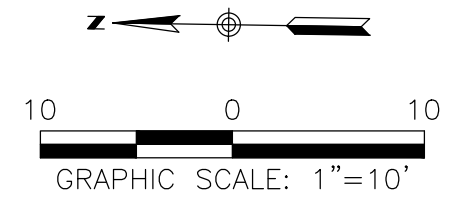
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DATE: 2/19/2021
DRAWN BY: WD
CHECKED BY: JS
JOB NO: D01173-A

**INTERSECTION
DETAILS**

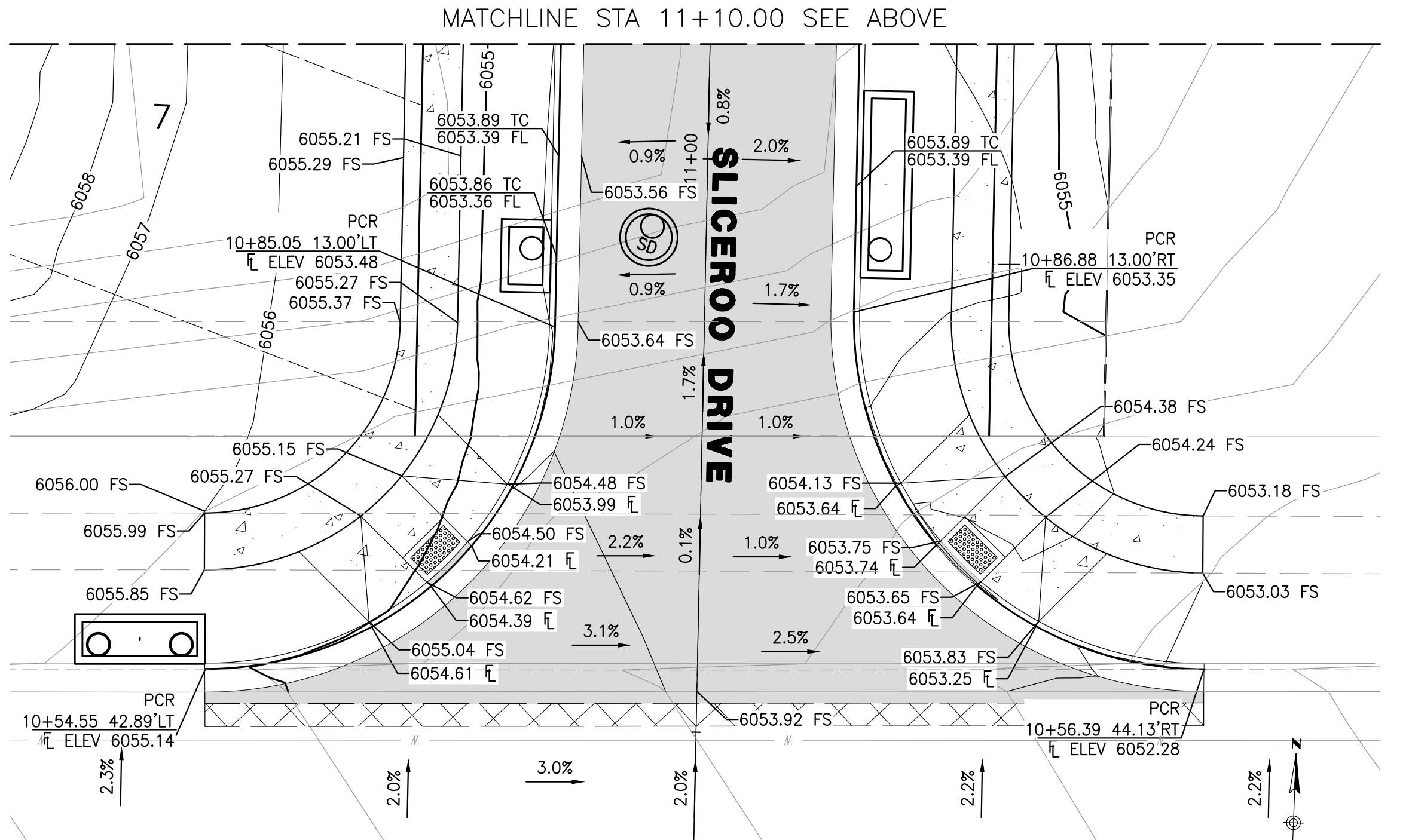
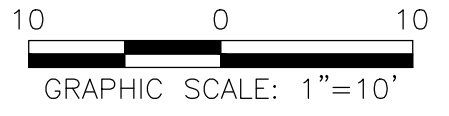
PROJECT NO:
D01173-A
DRAWING NO:
18
SHEET NO. 18 OF 25 SHEETS



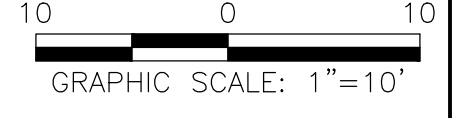
SLICEROO DRIVE
SCALE: HORIZ. 1"=10'



SLICEROO DRIVE & SOUTH RED SKY DRIVE INTERSECTION
SCALE: HORIZ. 1"=10'



SLICEROO DRIVE & HESS ROAD INTERSECTION
SCALE: HORIZ. 1"=10'

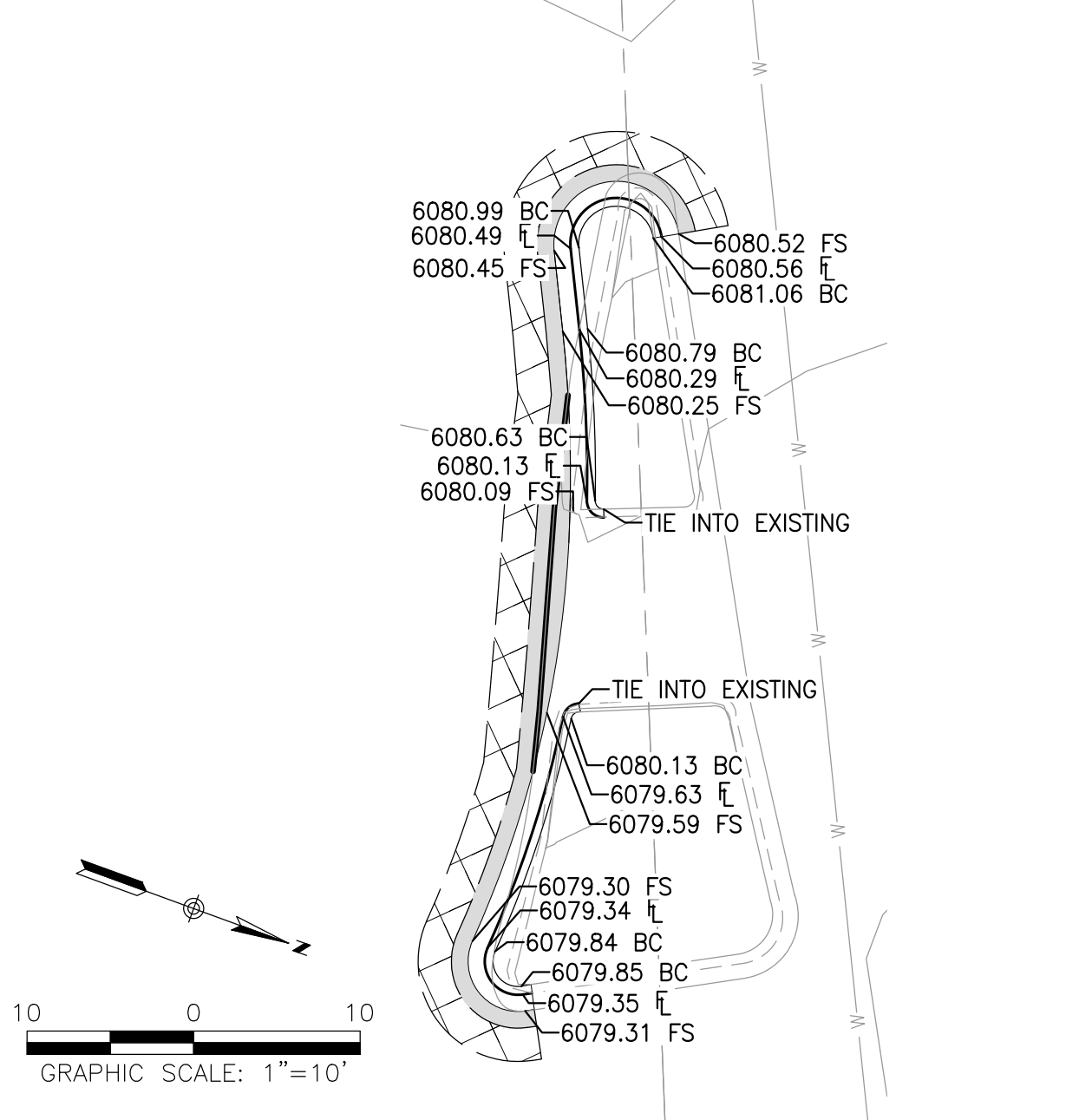


TOWN OF PARKER APPROVALS

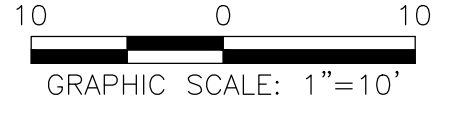
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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____



SOUTH RED SKY DRIVE MEDIAN
SCALE: HORIZ. 1"=10'



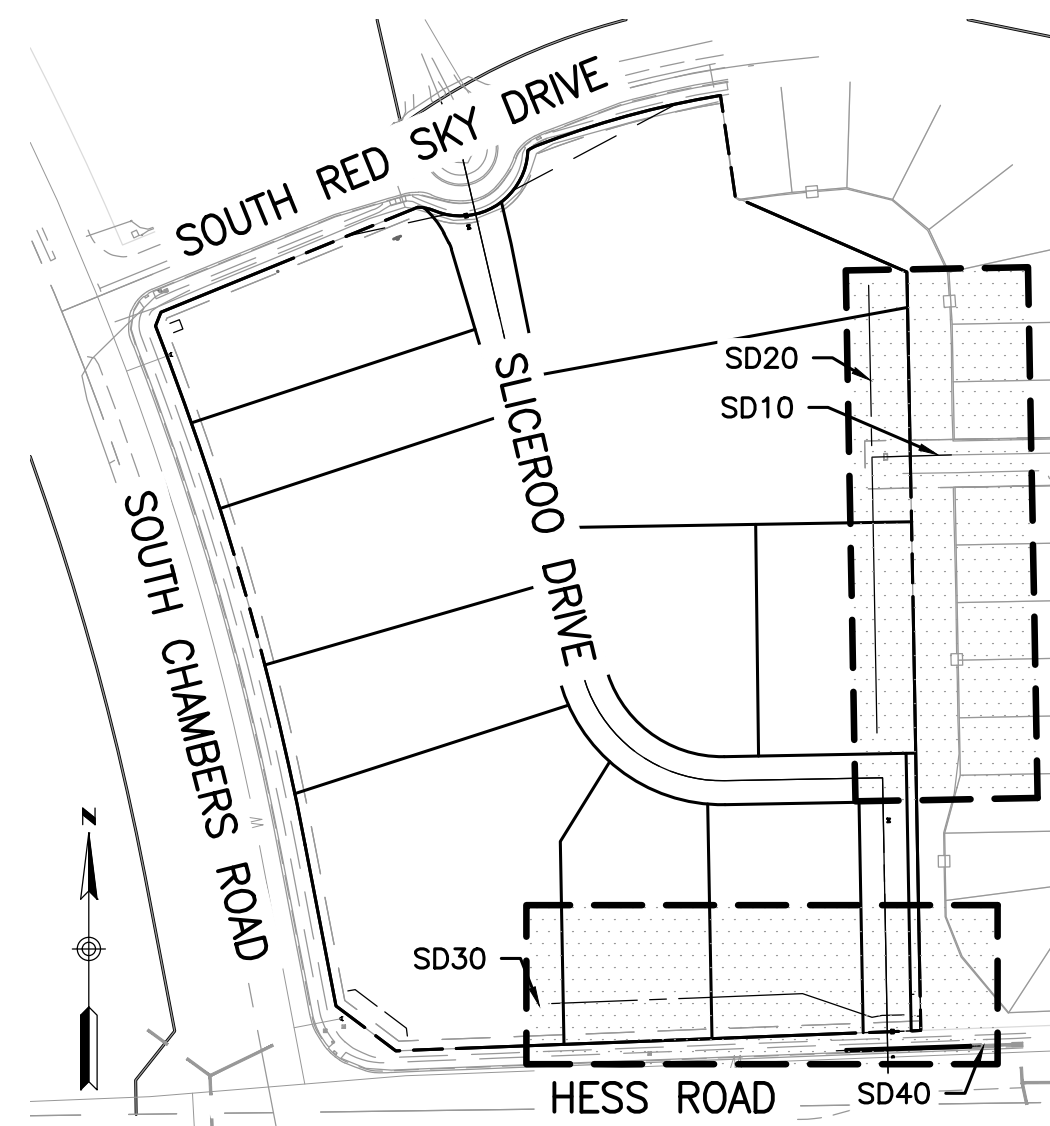
STORM SEWER NOTES

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- RIM ELEVATIONS GIVEN FOR ALL TYPE-R INLETS IN CURB LINE ARE TOP-OF-CURB (OR FRONT TOP OF INLET) ELEVATIONS. STATIONS AND OFFSETS SHOWN IN PROFILE FOR TYPE-R INLETS ARE AT CENTER OF INLET.
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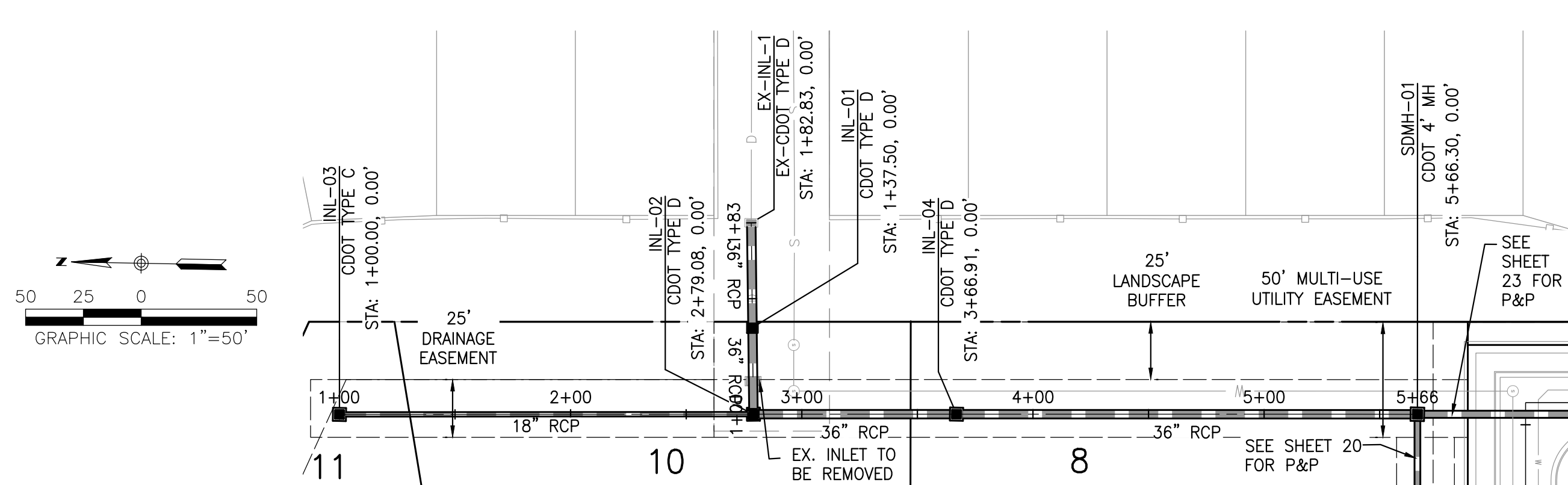


KEY MAP

SCALE: HORIZ. 1" = 200'

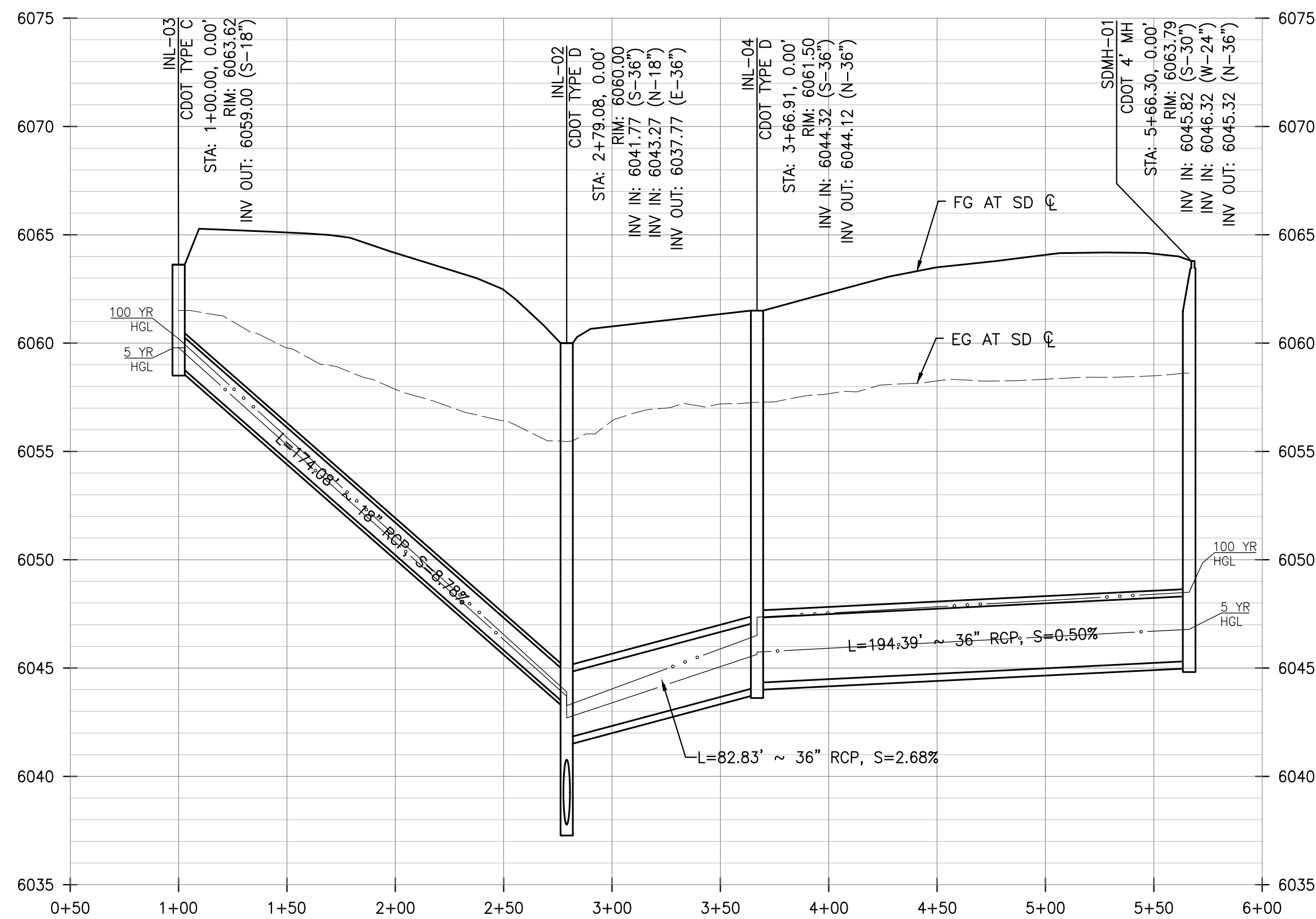
TOWN OF PARKER, DIRECTOR OF ENGINEERING

DATE



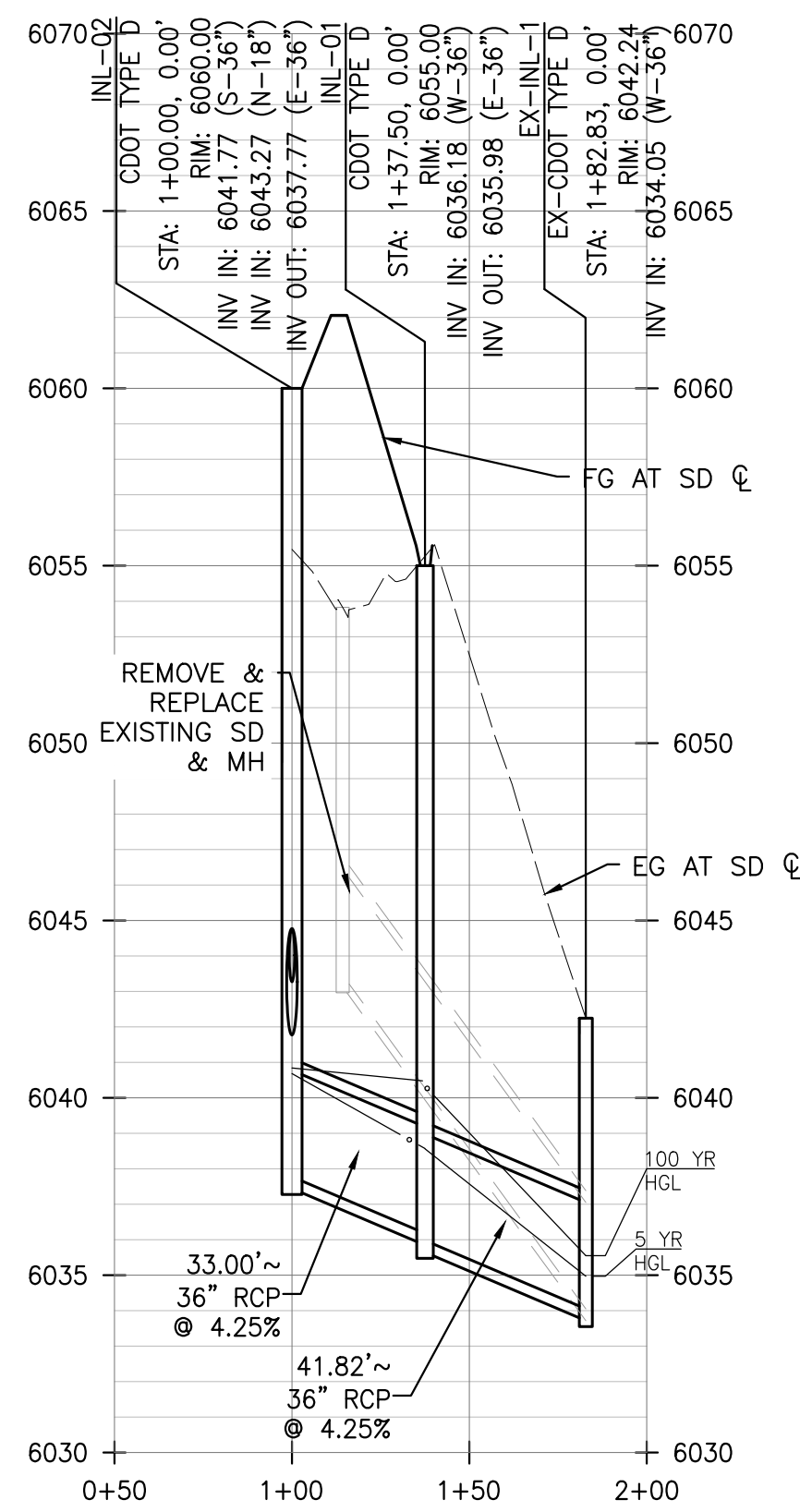
PROFILE - SD10 & SD20

SCALE: HORIZ. 1" = 50'



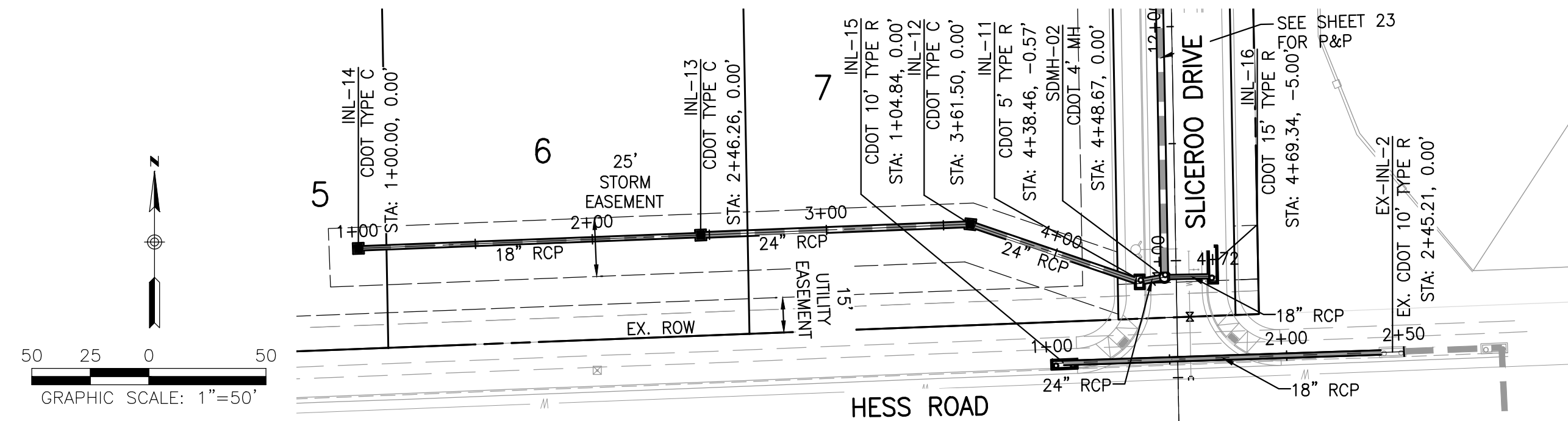
PROFILE - SD20

SCALE: HORIZ. 1"=50', VERT. 1"=5'



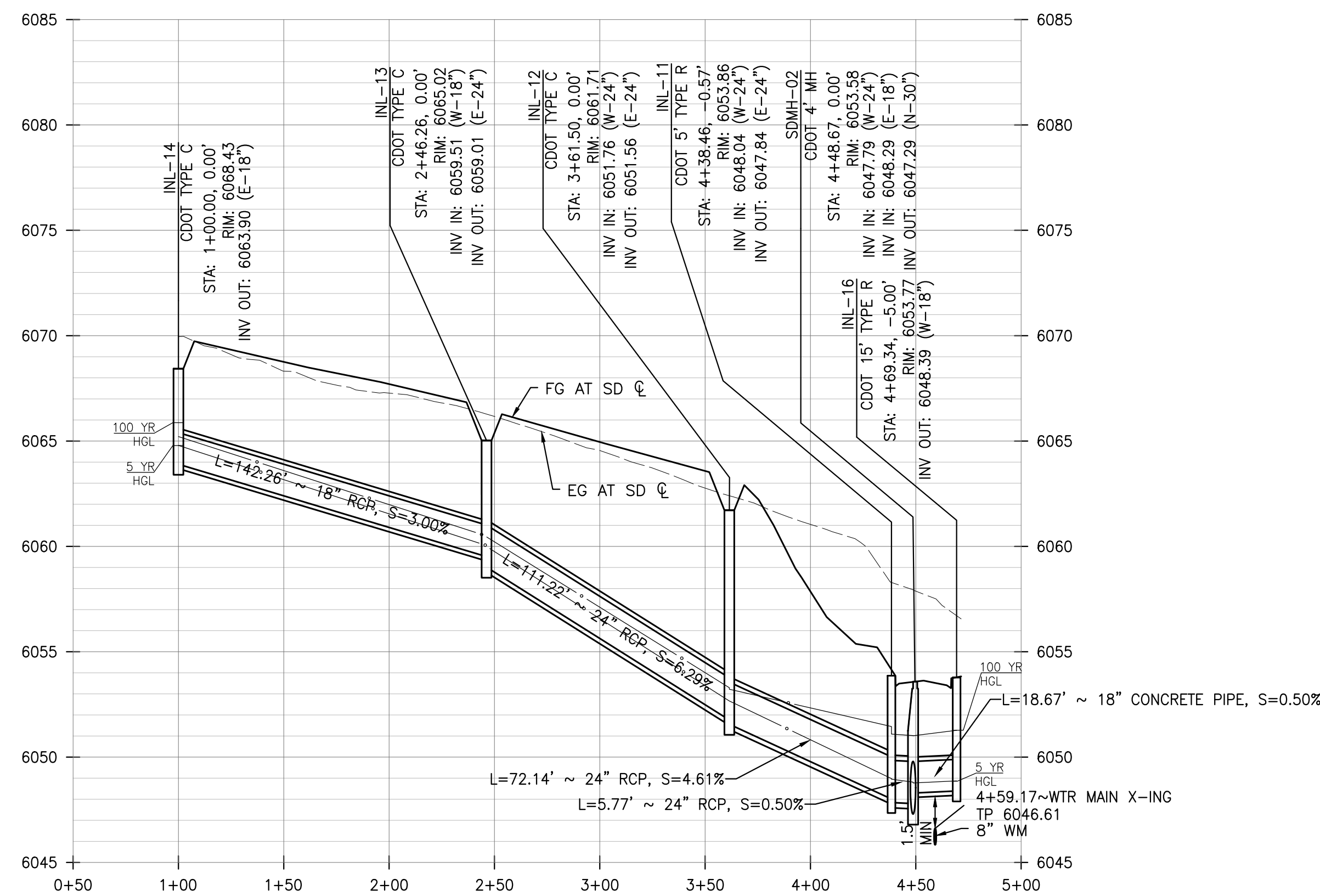
PROFILE - SD10

SCALE: HORIZ. 1"=50', VERT. 1"=5'



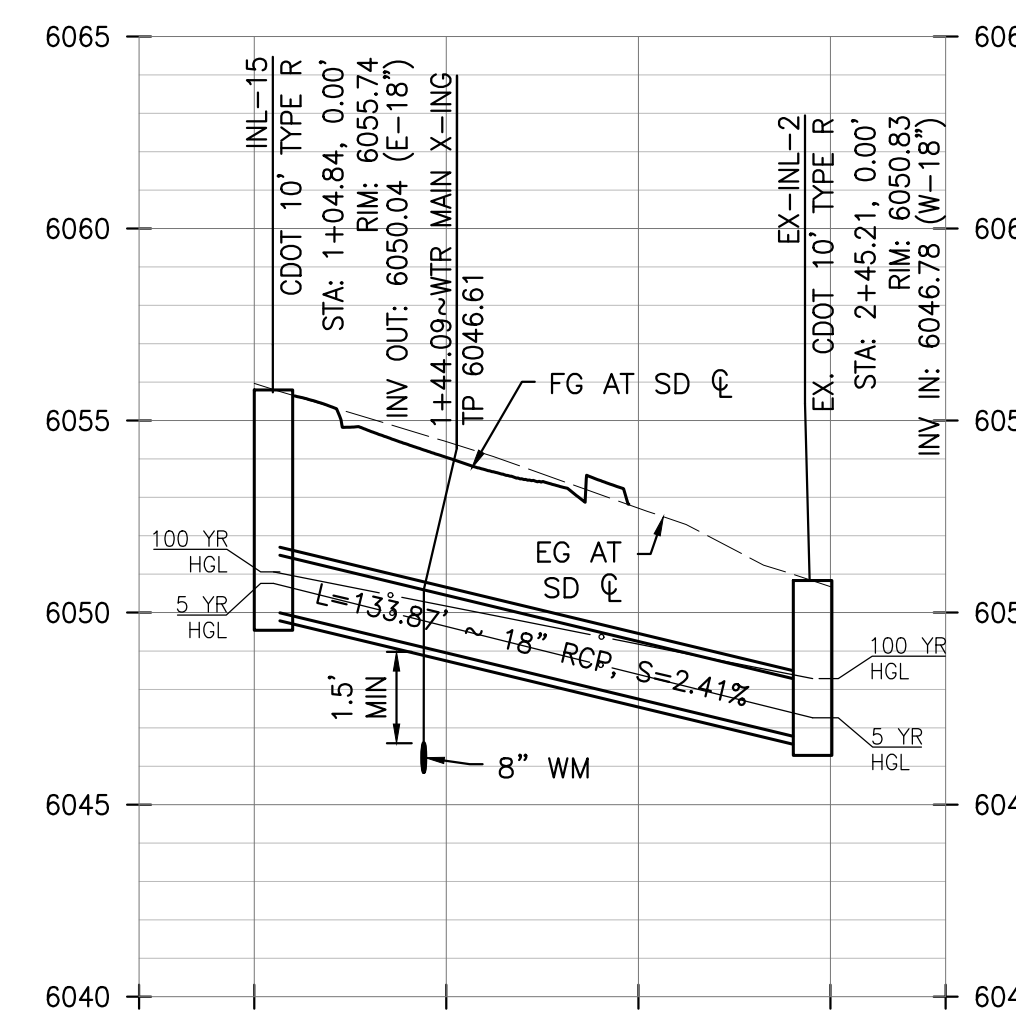
PLAN - SD30 & SD40

SCALE: HORIZ. 1" = 50'



PROFILE - SD30

SCALE: HORIZ. 1"=50', VERT. 1"=5'



PROFILE - SD40

SCALE: HORIZ. 1"=50', VERT. 1"=5'

ROADWAY & STORM DRAIN PLANS FOR DOUGLAS 234 FILING, NO. 6
DOUGLAS COUNTY, COLORADO

RICK ENGINEERING COMPANY
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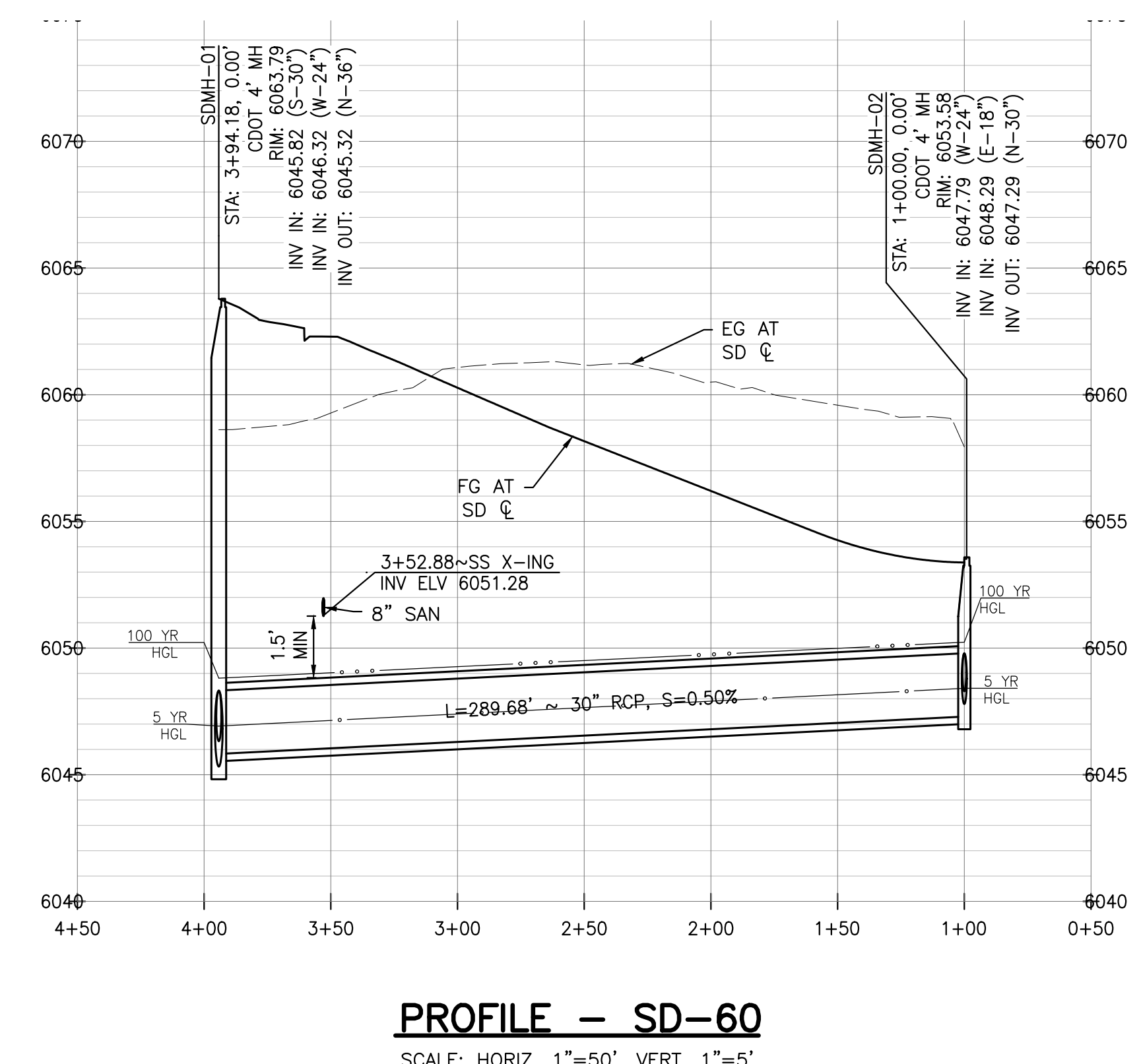
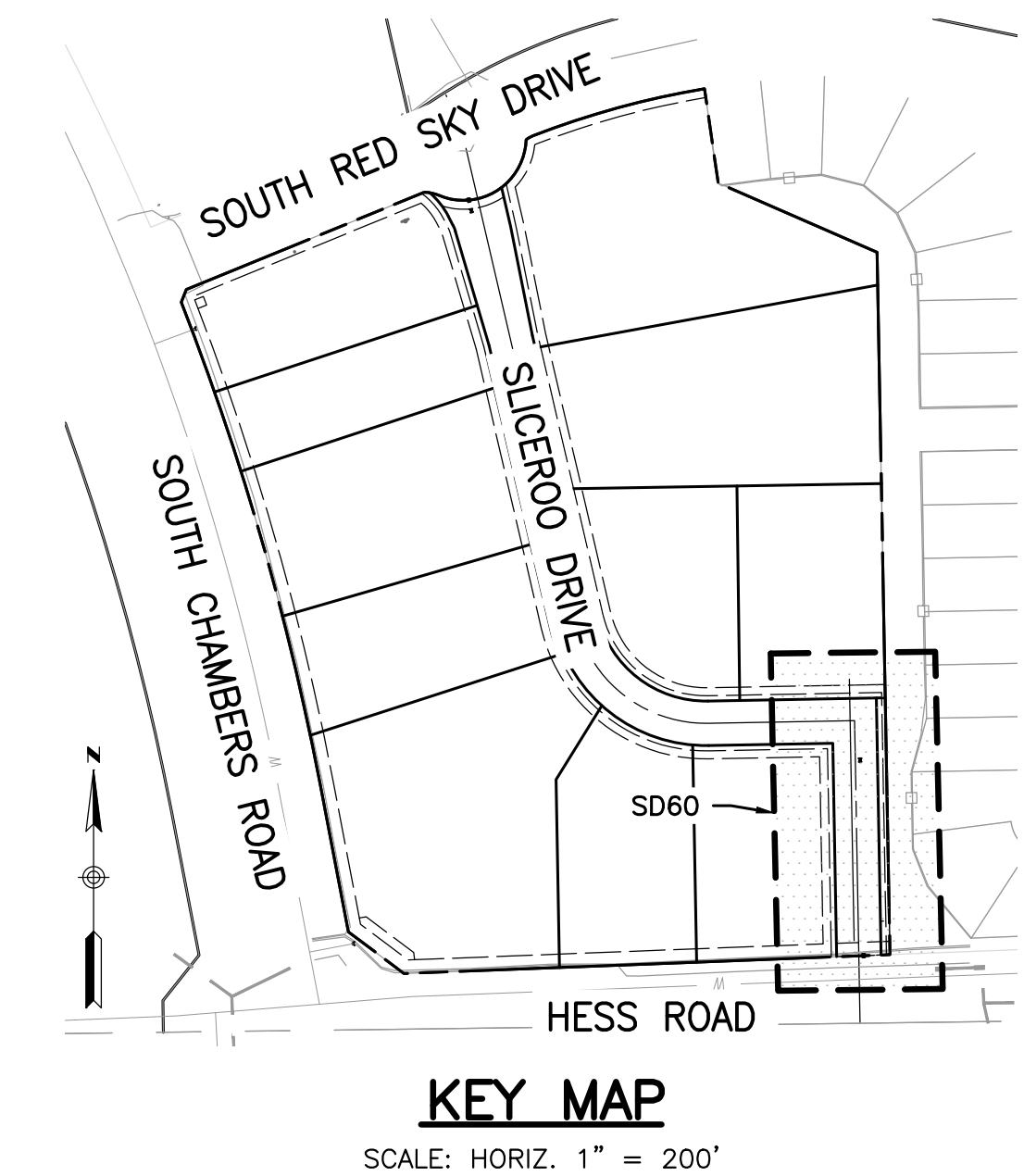
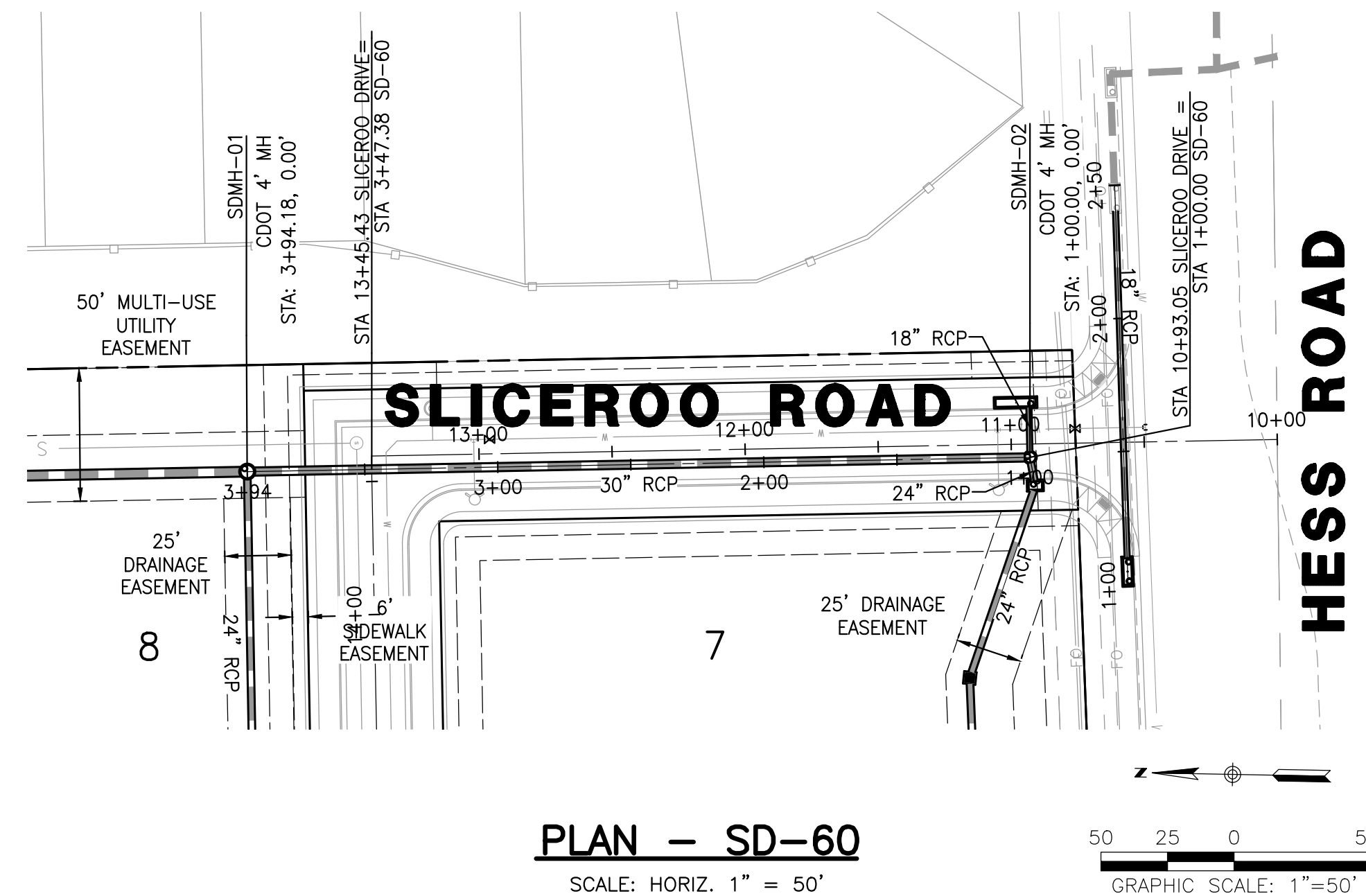
REVISIONS:

NO.	DESCRIPTION	DATE:
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SCALE: AS SHOWN
DATE: 2/19/2021
DRAWN BY: WD
CHECKED BY: JS
JOB NO: D01173-A

STORM DRAIN PLAN & PROFILE

PROJECT NO. D01173-A
DRAWING NO. 21
SHEET NO. 21 OF 25 SHEETS



STORM SEWER NOTES

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DOUGLAS COUNTY, COLORADO

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REVISIONS:		
NO.	DESCRIPTION	DATE
1	-	-

SCALE: 1" = 50'
DATE: 2/19/2021
DRAWN BY: WD
CHECKED BY: JS
JOB NO: D01173-A

STORM DRAIN PLAN & PROFILE

PROJECT NO. D01173-A
DRAWING NO. 23
SHEET NO. 23 OF 25 SHEETS

GENERAL NOTES

1. SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
2. THE PRECAST FLAT TOP MAY BE USED ON ANY MANHOLE THE EXISTING CURB MAY BE USED WITH THE MANHOLE 1/4" HIGH IS AT LEAST 8 FT.
3. THE MANHOLE RING FRAME SHALL BE SET IN A BED OF ABOUT THE FRAME SHALL BE SURROUNDED WITH A CONCRETE GROUT IN UNPAVED AREAS OR A CONCRETE SOLAR IN PAVED AREAS. SEE DETAILS ON SHEETS 2 AND 3.
4. A DESIGN OF THE MANHOLE IS BASED ON STRAIGHT RUNS OF PIPE OR CHANGE IN DIRECTION OF LINES THAN 45° SPECIAL DESIGN IS REQUIRED FOR 45° OR GREATER.
5. PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO ADOPTS W-90 SERIES C-401.
6. CAST-IN-PLACE MANHOLES SHALL BE CLASS B CONCRETE.
7. STEPS SHALL BE REQUIRED WITH THE MANHOLE DEPTH EXCEEDS 3 FT. IN AND SHALL CONFORM TO ADOPTS W-90.
8. ALL REINFORCING STEEL SHALL BE GRADE 60 AND TYPICAL COATED STEEL SHALL BE PLACED AT CENTERLINE OF WALL. ALL BASIC SHALL HAVE A 2" MINIMUM CLEARANCE.
9. ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY SPIRAL CHANNELIZATION ADJUSTED FOR PIPE SIZE, SLOPE, LENGTH AND DIRECTION OF FLOW. DETAILS SHOWN ARE TYPICAL FOR INSTALLATIONS WITH ALL SIZES OF CONCRETE RELATIVE ELEVATION FOR EXCESSIVE SLOPES OR UNUSUAL SIZES. SEE DETAILS ON SHEETS 2 AND 3.
10. FLOW CHANNELS AND REINFORCING SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
11. STEPS SHALL BE LOCATED 2' MINIMUM BEFORE OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLACED.
12. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.
13. WHEN FINAL GRADE IS PAVED SURFACE, RECESS MANHOLE RING AND COVER 3/8" TO 1/2" MAX.

QUANTITIES FOR CONCRETE MANHOLE BOX BASE

MARK	SIZE	TYPE	WT.	REIN.	REIN. LENGTH	REIN. WEIGHT	CONCRETE	FORMS
401	4	I	0.686	NO REIN.	17.0	0.000	0.250	1.00
402	4	II	0.686	NO REIN.	17.0	0.000	0.250	1.00
501	5	I	1.043	NO REIN.	22.0	0.000	0.375	1.50
502	5	II	1.043	NO REIN.	22.0	0.000	0.375	1.50
601	6	I	1.643	NO REIN.	33.0	0.000	0.562	2.25
602	6	II	1.643	NO REIN.	33.0	0.000	0.562	2.25
701	7	I	2.533	NO REIN.	50.0	0.000	0.844	3.38
702	7	II	2.533	NO REIN.	50.0	0.000	0.844	3.38
801	8	I	3.833	NO REIN.	75.0	0.000	1.266	5.06
802	8	II	3.833	NO REIN.	75.0	0.000	1.266	5.06

Computer File Information: Colorado Department of Transportation, Project Development Branch, JKB

STANDARD PLAN NO. M-604-20
Standard Sheet No. 1 of 3

STEEL GRATE QUANTITIES

NO.	DESCRIPTION	LENGTH	AREA	WEIGHT
1	54 x 7.7 BEAM	40'	7.70	300
2	3/4" x 1/2" FLAT	280'	2.80	108
3	3/4" x 1/2" FLAT	280'	2.80	108
TOTAL LBS. = 516				

QUANTITIES FOR ONE INLET

NO.	DESCRIPTION	LENGTH	AREA	WEIGHT
1	54 x 7.7 BEAM	40'	7.70	300
2	3/4" x 1/2" FLAT	280'	2.80	108
3	3/4" x 1/2" FLAT	280'	2.80	108
4	3/4" x 1/2" FLAT	280'	2.80	108
5	3/4" x 1/2" FLAT	280'	2.80	108
6	3/4" x 1/2" FLAT	280'	2.80	108
7	3/4" x 1/2" FLAT	280'	2.80	108
8	3/4" x 1/2" FLAT	280'	2.80	108
9	3/4" x 1/2" FLAT	280'	2.80	108
10	3/4" x 1/2" FLAT	280'	2.80	108
11	3/4" x 1/2" FLAT	280'	2.80	108
12	3/4" x 1/2" FLAT	280'	2.80	108
13	3/4" x 1/2" FLAT	280'	2.80	108
14	3/4" x 1/2" FLAT	280'	2.80	108
15	3/4" x 1/2" FLAT	280'	2.80	108
16	3/4" x 1/2" FLAT	280'	2.80	108
17	3/4" x 1/2" FLAT	280'	2.80	108
18	3/4" x 1/2" FLAT	280'	2.80	108
19	3/4" x 1/2" FLAT	280'	2.80	108
20	3/4" x 1/2" FLAT	280'	2.80	108
21	3/4" x 1/2" FLAT	280'	2.80	108
22	3/4" x 1/2" FLAT	280'	2.80	108
23	3/4" x 1/2" FLAT	280'	2.80	108
24	3/4" x 1/2" FLAT	280'	2.80	108
25	3/4" x 1/2" FLAT	280'	2.80	108
26	3/4" x 1/2" FLAT	280'	2.80	108
27	3/4" x 1/2" FLAT	280'	2.80	108
28	3/4" x 1/2" FLAT	280'	2.80	108
29	3/4" x 1/2" FLAT	280'	2.80	108
30	3/4" x 1/2" FLAT	280'	2.80	108
31	3/4" x 1/2" FLAT	280'	2.80	108
32	3/4" x 1/2" FLAT	280'	2.80	108
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97	3/4" x 1/2" FLAT	280'	2.80	108
98	3/4" x 1/2" FLAT	280'	2.80	108
99	3/4" x 1/2" FLAT	280'	2.80	108
100	3/4" x 1/2" FLAT	280'	2.80	108

Computer File Information: Colorado Department of Transportation, Project Development Branch, JKB

STANDARD PLAN NO. M-604-10
Standard Sheet No. 1 of 1

GENERAL NOTES

1. FOR LENGTHS (L) UP TO 10 FT. MORE, PROVIDE MAINTENANCE ACCESS AT BOTH ENDS WITH AN ADDITIONAL MANHOLE RING AND COVER. OUT REINFORCEMENT BAR ACCORDINGLY.
2. STATION POINT AT MIDPOINT OF INLET ALONG FLOWLINE.
3. EACH END.
4. MEET CURB OF NORMAL BARRIER CURB AND GUTTER HERE.
5. SEE CHANNEL LAYOUT ON SHEET 2.
6. 1/2" DIA. x 24" LONG STEEL ROD.
7. 1/2" DIA. x 24" LONG STEEL ROD.
8. 1/2" DIA. x 24" LONG STEEL ROD.
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NO.	DESCRIPTION	LENGTH	AREA	WEIGHT
1	54 x 7.7 BEAM	40'	7.70	300
2	3/4" x 1/2" FLAT	280'	2.80	108
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