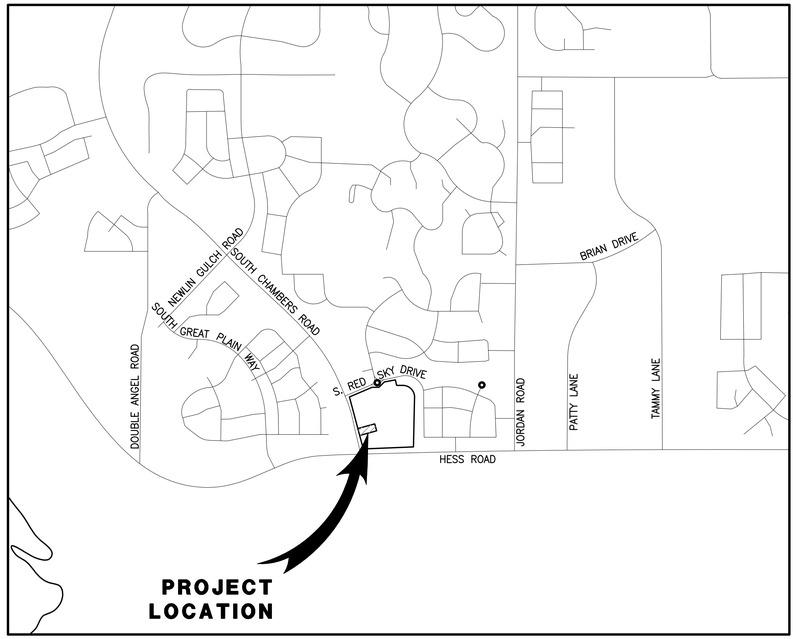
# ROADWAY & STORM DRAIN CONSTRUCTION PLANS FOR DUNKIN' DONUTS

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

A PORTION OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 29, TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN, TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
0.901 ACRES, 1 COMMERCIAL LOT




VICINITY MAP
SCALE 1"= 1000'

GRAPHIC SCALE: 1"=1000'

## CONTACT LIST

### DEVELOPER
FIRST CUP DUNKIN' DONUTS, LLC
106 S. KYRENE RD, SUITE 2
CHANDLER, AZ 85226
PHONE: 480.313.2724
CONTACT: BRIAN ZUREK

### ARCHITECT
ETHOS ARCHITECTURE GROUP
8025 W. 25TH PLACE
LAKEWOOD, CO 80214
PHONE: 303.374.9896
CONTACT: JOHN SPONSELLER

### ENGINEER
RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
PHONE: 303.537.8020
CONTACT: TROY BALES

### SURVEYOR
RICK ENGINEERING COMPANY
5690 WEBSTER ST.
ARVADA, CO 80002
PHONE: 303.403.2433
CONTACT: ROBERT HENNESSY

### PARKER PUBLIC WORKS
20120 E. MAINSTREET
PARKER, CO. 80138
PHONE: 303.840.9546
STREETS – MIKE WAUGH
STORM WATER – JACOB JAMES

### TOWN OF PARKER POLICE DEPARTMENT
19600 E. PARKER SQUARE DR.
PARKER, CO. 80134
PHONE: 303.841.9800

### PARKER WATER AND SANITATION DISTRICT
18100 E. WOODMAN DR.
PARKER, CO. 80134
PHONE: 303.841.4627

### FIRE & LIFE SAFETY
20120 E. MAINSTREET
PARKER, CO 80138
PHONE: 303.205.3169
CONTACT: RANDALL CAPRA

### UTILITY NOTIFICATION COMPANY OF COLORADO
2801 SOUTH YOUNGFIELD ST, SUITE 301
GOLDEN, CO 80401
PHONE: 800.922.1987
LOCAL CALLS: (811)

### XCEL ENERGY
5909 E. 38TH AVE.
DENVER, CO 80207
PHONE: 303.329.1618
CONTACT: MICHELLE O'NAN

### COMCAST
6850 S. TUCSON WAY
ENGLEWOOD, CO 80112
PHONE: 720.490.3867
CONTACT: KEVIN YOUNG

### LUMEN
9750 E. COSTILLA AVE.
ENGLEWOOD, CO 80220
PHONE; 303.792.6069
CONTACT: WILLIAM BENSON

### COLORADO DEPARTMENT OF HEALTH
4210 E. 11TH AVE.
DENVER, CO
PHONE: 303.320.8333

### INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION
5496 NORTH US HWY 85
P.O BOX DRAWER A
SEDALIA, CO 80135
PHONE: 303.688.3100
CONTACT: JASON JENKS

### MILE HIGH FLOOD CONTROL DISTRICT (MHFCD)
2480 W. 26TH AVE.
SUITE 156–B
DENVER, CO 80211
PHONE: 303.455.6277
CONTACT: MIKE SARMENTO

## SITE BENCHMARK & BASIS OF BEARINGS:

THE PRIMARY BENCHMARK USED TO DETERMINE THE BASIS OF ELEVATIONS FOR THIS MAP IS BY GPS OBSERVATION NAVD88. A SITE BENCHMARK HAS BEEN SET AT THE NORTHWEST CORNER OF A DRAIN INLET ON CHAMBERS ROAD, APPROXIMATELY 200'± NORTH OF HESS ROAD. ELEVATION = 6075.31

THE BASIS OF BEARINGS IS THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 29 TOWNSHIP 6 SOUTH, RANGE 66 WEST, 6TH PRINCIPAL MERIDIAN, BEARING SOUTH 89°15'13" WEST AS SHOWN ON FINAL PLAT DOUGLAS 234 FILING NO. 1.

## SHEET INDEX


| NO. | TITLE |
|---|---|
| 1 | COVER SHEET |
| 2 | NOTES |
| 3 | EXISTING CONDITIONS & DEMOLITION PLAN |
| 4 | HORIZONTAL CONTROL PLAN |
| 5 | GRADING PLAN |
| 6 | SIGNAGE AND STRIPING PLAN |
| 7 | SIGNAGE AND STRIPING DETAILS |
| 8 | STORM DRAIN PLAN & PROFILE |
| 9 | INITIAL CBMP PLAN |
| 10 | INTERIM/FINAL CBMP PLAN |
| 11 | CBMP DETAILS |
| 12 | CBMP DETAILS |
| 13 | CBMP DETAILS |
| 14 | CBMP DETAILS |
| 15 | CBMP DETAILS |
| 16 | CBMP DETAILS |
| 17 | CBMP DETAILS |
| 18 | CBMP DETAILS |
| 19 | CBMP DETAILS |
| 20 | CBMP DETAILS |
| 21 | STANDARD DETAILS |
| 22 | STANDARD DETAILS |
| 23 | STANDARD DETAILS |
| 24 | STANDARD DETAILS |
| 25 | STANDARD DETAILS |
| 26 | STANDARD DETAILS |


## ABBREVIATIONS

| | |
|---|---|
| CL | CENTERLINE |
| DIA. | DIAMETER |
| DIST. | DISTRICT |
| E | EASTING |
| ESMT | EASEMENT |
| EX. | EXISTING |
| EG | EXISTING GRAD |
| FG | FINISHED GRADE |
| FL | FLOW LINE |
| FS | FINISHED SURFACE |
| FFE | FINISHED FLOOR ELEVATION |
| INL | INLET |
| INV | INVERT |
| LP | LOW POINT |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| N | NORTHING |
| PL | PROPERTY LINE |
| PROP. | PROPOSED |
| PVC | POLYVINYL CHLORIDE PIPE |
| RCP | REINFORCED CONCRETE PIPE |
| REC. | RECEPTION |
| RIM | RIM ELEVATION |
| R.O.W. | RIGHT OF WAY |
| SAN | SANITARY SEWER |
| SF | SQUARE FOOT |
| SDI | STORM DRAIN INLET |
| SDMH | STORM DRAIN MANHOLE |
| STA. | STATION |
| STD | STANDARD |

## LEGEND

| | EXISTING | PROPOSED |
|---|---|---|
| PROPERTY BOUNDARY | | |
| PROPERTY LINE | | |
| RIGHT–OF–WAY | | |
| CENTERLINE | | |
| CURB | | |
| CURB & GUTTER | | |
| EASEMENT | | |
| CONTOURS | | |
| WATER LINE | W | W |
| SANITARY SEWER LINE | S | S |
| STORM DRAIN LINE | | |
| GAS LINE | G | |
| ELECTRIC LINE | E | |
| TYPICAL LATERALS | | XX |
| SANITARY SEWER MANHOLE | S | |
| STORM DRAIN MANHOLE | D | |
| STORM DRAIN INLET | | |
| FIRE HYDRANT | | |
| AC PAVING | | |
| CONCRETE | | |
| LANDSCAPE | | |

## SIGHT DISTANCE CERTIFICATION:

"I, THE UNDERSIGNED, HEREBY CERTIFY THAT THE PROPOSED SUBDIVISION IS DESIGNED WITH ADEQUATE CORNER SIGHT DISTANCE FOR ALL INTERSECTIONS, AND PEDESTRIAN CROSSING LOCATIONS. CONSIDERATION OF LANDSCAPING IMPACTS TO THE CORNER SIGHT DISTANCE AT BOTH INITIAL AND MATURE GROWTH HAS BEEN REVIEWED. THE MINIMUM CORNER SIGHT DISTANCE IS IN COMPLIANCE WITH AASHTO "POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS".

I HEREBY AFFIRM THAT THESE CONSTRUCTION PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

_____
TROY BALES
RICK ENGINEERING COMPANY

## TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON–SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

_____
TOWN OF PARKER, DIRECTOR OF ENGINEERING/PUBLIC WORKS DATE

| NO. | BY | DATE | REVISION |
|---|---|---|---|
| | | | |

SEAL:


8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver


| | |
|---|---|
| 2243 | DRAWN/DESIGNED BY: KA/JS |
| 8/24/2023 | CHECKED BY: JS |
| PROJECT NO: | |
| DATE: | |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:
DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4
DOUGLAS COUNTY, COLORADO

COVER SHEET

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

DRAWING NO. 1
SHEET NO. 1 OF 26

2ND SUBMITTAL


C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\Parcel\Road and Storm Drain Construction Plans\2243-C-TITL01.dwg – plotted by: kalozard ON 2023-08-24 @ 08:43 – ctb:rec_ncs.ctb – ©2023 Rick Engineering Company

## 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 BMPS) 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 PWSD 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 PWSD IMMEDIATELY.
3. PWSD 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 PWSD 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 PWSD 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 PROPSED 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
8. 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, WQCD-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 AFOREMENTIONED 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 DISSIPATERS, 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 ENTERED AND THE INNER SURFACES ARE REASONABLE FLUSH. AVERAGE JOINT GAP THAT EXCEEDS ½ 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:

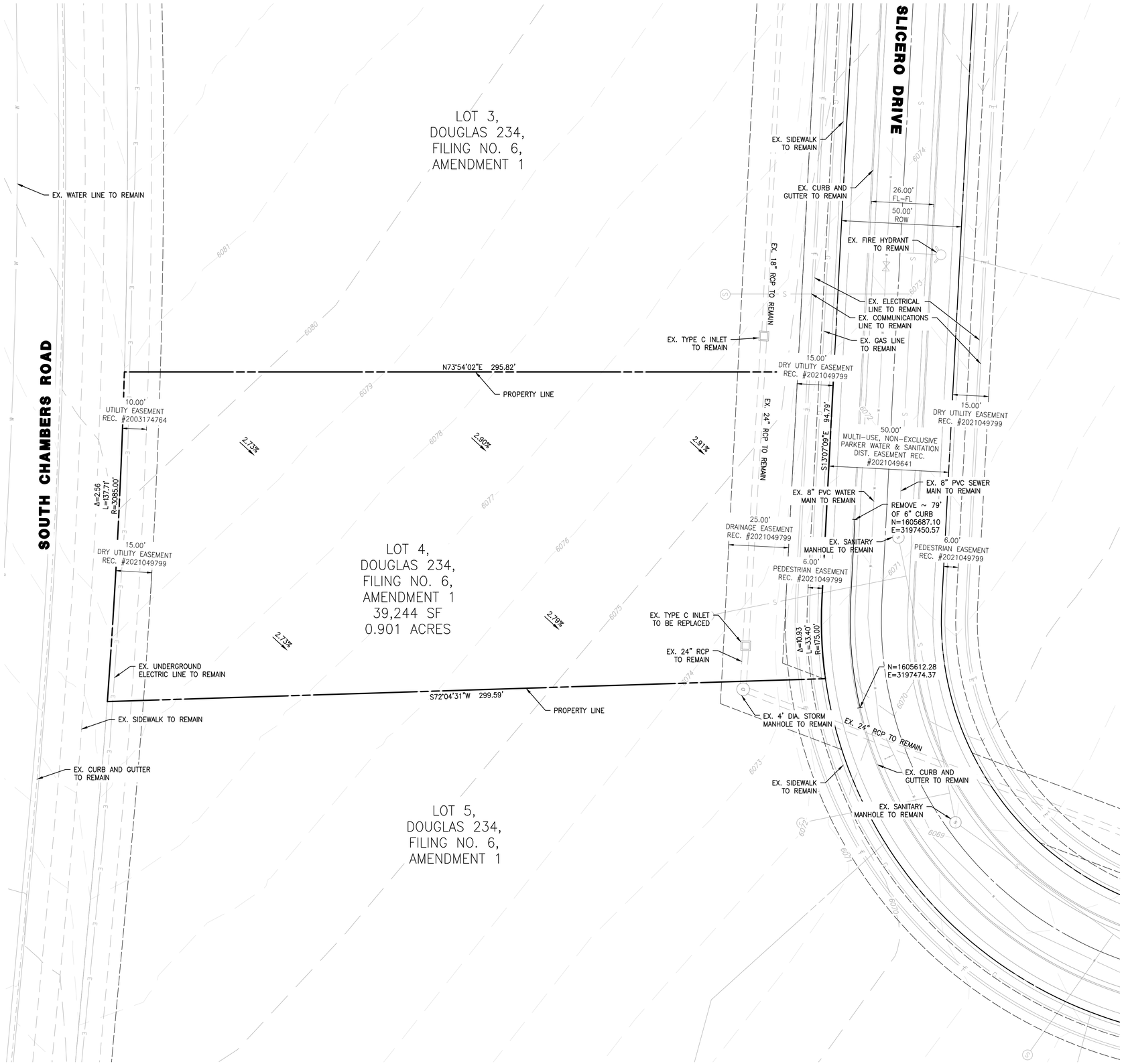
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT VERSION OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), COLORADO SUPPLEMENTAL MUTCD, AND THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL. FURTHER SPECIFICATIONS AND ILLUSTRATIONS ARE LOCATED IN THE COLORADO 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 AREAD 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 APPROACHES 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 TIM 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 SIGNAND 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.

| NO. | BY | DATE | REVISION |
|---|---|---|---|
| | | | |

SEAL:


RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver


| | |




## TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

_____

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

## NOTES

1. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
2. ALL EXISTING IMPROVEMENTS TO BE PROTECTED IN PLACE, UNLESS SPECIFICALLY CALLED AS "TO BE REMOVED".

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:


8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver


| | |
|---|---|
| 2243 | DRAWN/DESIGNED BY: KA/JS |
| 8/24/2023 | CHECKED BY: JS |
| PROJECT NO: | |
| DATE: | |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## EXISTING CONDITIONS & DEMOLITION PLAN

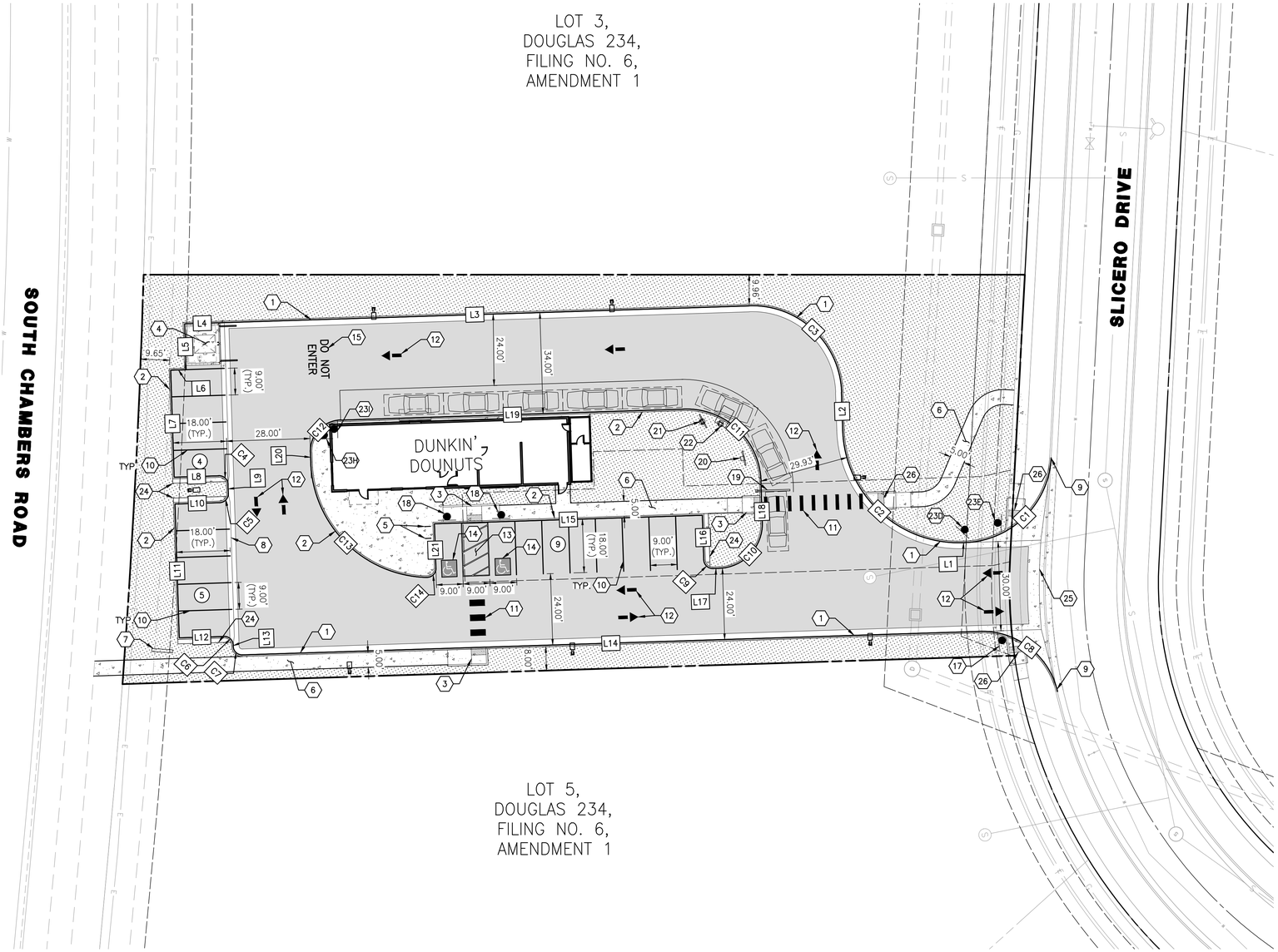
Know what's **below.** **Call** before you dig.

DRAWING NO. 3

SHEET NO. 3 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DEM001.dwg - plotted by: kalozard ON 2023-08-24 @ 08:43 - ctb:rec_ncs.ctb - ©2022 Rick Engineering Company




## TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

_____

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

## CONSTRUCTION NOTES

1. PROPOSED VERTICAL CURB AND GUTTER PER TOWN OF PARKER STD DTL 3.
2. PROPOSED CURB TYPE 2 (SECTION B) 6" BARRIER PER CDOT STD PLAN NO. M-609-1.
3. PROPOSED MIDBLOCK CURB RAMP PER TOWN OF PARKER STD DTL 17.
4. PROPOSED TRASH ENCLOSURE PROPOSED
5. BIKE PARKING (4 SPACES)
6. PROPOSED SIDEWALK PER TOWN OF PARKER STD DTL 4.
7. PROPOSED MONUMENT SIGN (ALL SIGNS ARE REVIEWED UNDER SEPARATE PERMIT)
8. 3' GUTTER TYPE 2 PER CDOT STD PLAN NO. M-609-1.
9. TIE INTO EXISTING
10. 4" WIDE, WHITE PARKING SPACE MARKING
11. WHITE CROSSWALK MARKINGS PER DETAIL "A"
12. DIRECTIONAL ARROW PER DETAIL "B"
13. 4" WIDE, WHITE, SOLID DIAGONAL MARKINGS AT 5' SPACING ANGLED AT 30 DEGREES
14. INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING PER MUTCD
15. "DO NOT ENTER" PAVEMENT LEGEND
16. "NO PARKING" PAVEMENT LEGEND
17. R1-1 SIGN PER MUTCD
18. "HANDICAP PARKING ONLY" SIGN AND "VAN ACCESSIBLE" SIGN
19. SINGLE VEHICLE CLEARANCE BAR PER DETAIL "C" ON SHEET SS-02
20. DIGITAL PREVIEW BOARD PER DETAIL "D" ON SHEET SS-02
21. DIGITAL MENU BOARD PER DETAIL "E" ON SHEET SS-02
22. ORDER CANOPY PER DETAIL "G" ON SHEET SS-02
23. DIRECTIONAL SIGN PER DETAIL "H" ON SHEET SS-02. SIGN FACE(S) AS NOTED ON PLAN
24. PROPOSED 18" CONCRETE LANDING
25. PROPOSED 8' CROSS PAN PER TOWN OF PARKER STD DTL 19.
26. PROPOSED DIRECTIONAL CURB RAMP PER TOWN OF PARKER STD DTL 18.

**CURB CURVE TABLE**

| CURVE # | LENGTH | RADIUS | DELTA | DESCRIPTION |
|---|---|---|---|---|
| C1 | 44.61' | 30.00' | 085°11'40"" | 6" VERTICAL CURB & GUTTER |
| C2 | 61.26' | 39.00' | 090°00'00"" | 6" VERTICAL CURB & GUTTER |
| C3 | 47.12' | 30.00' | 090°00'00"" | 6" VERTICAL CURB & GUTTER |
| C7 | 4.71' | 3.00' | 090°00'00"" | 6" VERTICAL CURB & GUTTER |
| C8 | 35.83' | 26.00' | 078°57'47"" | 6" VERTICAL CURB & GUTTER |

**CURB CURVE TABLE**

| CURVE # | LENGTH | RADIUS | DELTA | DESCRIPTION |
|---|---|---|---|---|
| C4 | 4.71' | 3.00' | 090°00'00"" | CURB TYPE 2 (SECTION B) 6" BARRIER |
| C5 | 4.71' | 3.00' | 090°00'00"" | CURB TYPE 2 (SECTION B) 6" BARRIER |
| C6 | 4.71' | 3.00' | 090°00'00"" | CURB TYPE 2 (SECTION B) 6" BARRIER |
| C9 | 4.71' | 3.00' | 090°00'00"" | CURB TYPE 2 (SECTION B) 6" BARRIER |
| C10 | 23.56' | 15.00' | 090°00'00"" | CURB TYPE 2 (SECTION B) 6" BARRIER |
| C11 | 39.27' | 25.00' | 090°00'00"" | CURB TYPE 2 (SECTION B) 6" BARRIER |
| C12 | 16.49' | 10.50' | 090°00'00"" | CURB TYPE 2 (SECTION B) 6" BARRIER |
| C13 | 60.50' | 40.00' | 086°39'12"" | CURB TYPE 2 (SECTION B) 6" BARRIER |
| C14 | 4.89' | 3.00' | 093°20'48"" | CURB TYPE 2 (SECTION B) 6" BARRIER |

**CURB LINE TABLE**

| LINE # | LENGTH | DIRECTION | DESCRIPTION |
|---|---|---|---|
| L1 | 0.72' | S72°04'30.90"W | 6" VERTICAL CURB & 2' GUTTER |
| L2 | 12.79' | N17°55'29.10"W | 6" VERTICAL CURB & 2' GUTTER |
| L3 | 177.84' | S72°04'30.90"W | 6" VERTICAL CURB & 2' GUTTER |
| L13 | 0.39' | S17°55'29.10"E | 6" VERTICAL CURB & 2' GUTTER |
| L14 | 247.54' | N72°04'30.90"E | 6" VERTICAL CURB & 2' GUTTER |

**CURB LINE TABLE**

| LINE # | LENGTH | DIRECTION | DESCRIPTION |
|---|---|---|---|
| L4 | 11.83' | S72°04'30.90"W | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L5 | 15.39' | S17°55'29.10"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L6 | 5.17' | S72°04'30.90"W | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L7 | 36.00' | S17°55'29.10"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L8 | 15.00' | N72°04'30.90"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L9 | 3.00' | S17°55'29.10"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L10 | 15.00' | S72°04'30.90"W | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L11 | 45.00' | S17°55'29.10"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L12 | 15.00' | N72°04'30.90"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L15 | 90.00' | N72°04'30.90"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L16 | 15.00' | S17°55'29.10"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L17 | 2.00' | N72°04'30.90"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L18 | 13.79' | N17°55'29.10"W | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L19 | 115.34' | S72°04'30.90"W | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L20 | 3.29' | S17°55'29.10"E | CURB TYPE 2 (SECTION B) 6" BARRIER |
| L21 | 14.94' | N17°55'29.10"W | CURB TYPE 2 (SECTION B) 6" BARRIER |

20 10 0 20 40
GRAPHIC SCALE: 1"=20'

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:


RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver


PROJECT NO: 2243 | DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 | CHECKED BY: JS

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

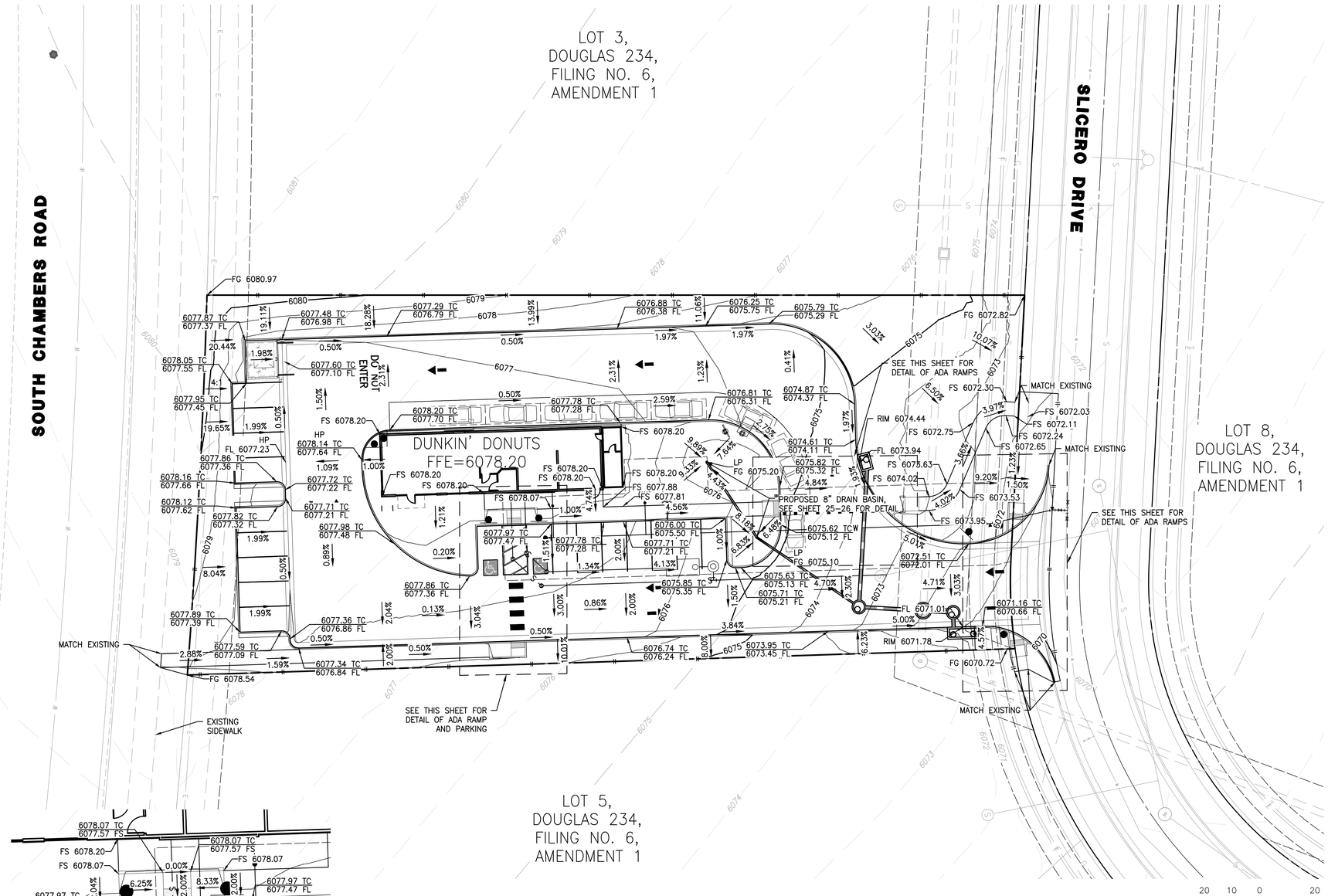
## HORIZONTAL CONTROL PLAN

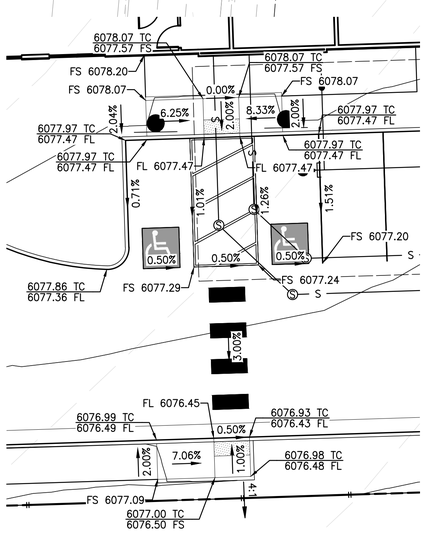
811 Know what's below. Call before you dig.

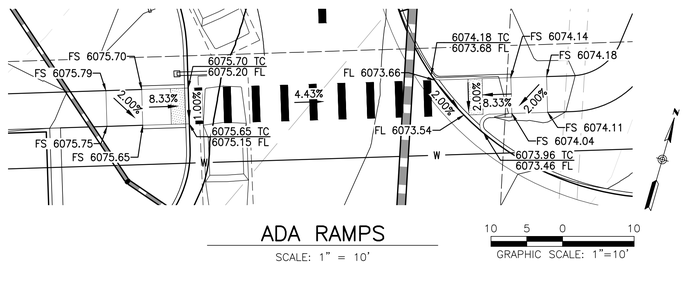
DRAWING NO. 4
SHEET NO. 4 OF 26

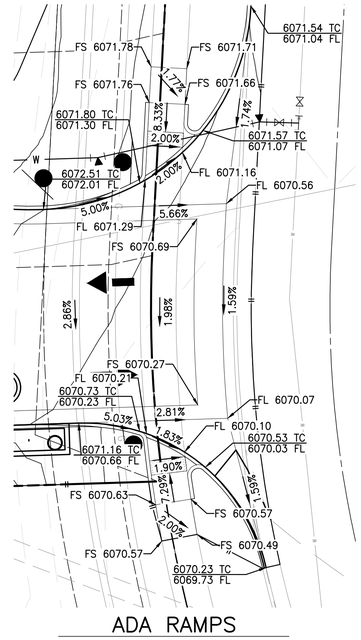
2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-HORZ01.dwg - plotted by: kalozard ON 2023-08-24 @ 16:49 - ctbrec_rics.ctb - ©2023 Rick Engineering Company




## TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

_____

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

## GRADING NOTES

1. CONTRACTOR SHALL REFER TO GEOTECHNICAL ENGINEER'S REPORT TO ENSURE REQUIREMENTS FOR MINIMUM GROUND SLOPE ARE MET.
2. RETAINING WALL DESIGN PROVIDED BY OTHERS.
3. ALL ADA RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.0%.
4. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL CALL 811 PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
6. 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 ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
8. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY MANHARD CONSULTING ON AUGUST 31, 2018. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
9. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2: 1 UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.

| NO. | BY | DATE | REVISION |
|---|---|---|---|
| | | | |

SEAL:


8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver


| | |
|---|---|
| 2243 | DRAWN/DESIGNED BY: KA/JS |
| | CHECKED BY: JS |
| PROJECT NO: | |
| DATE: | 8/24/2023 |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## GRADING PLAN

Know what's below. Call before you dig.

DRAWING NO. 5

SHEET NO. 5 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-GR001.dwg - plotted by: kalizard ON 2023-08-24 @ 08:44 - ctbxrec_ncs.ctb - © 2023 Rick Engineering Company

## SIGNING 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 AND S STANDARDS.

2. A FIELD INSPECTION OF LOCATION AND INSTALLATION OF ALL SIGNS AND MARKINGS 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. A "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 APPROACHES 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 AND S STANDARDS.

9. RAISED MEDIAN ISLAND NOSES SHALL HAVE R4-7 SIGNS AT EACH END AND A 4"X12" HIGH INTENSITY YELLOW BLANK SIGN LOCATED MIDWAY BETWEEN THE R4-7 SIGN AND FINISHED GRADE ON EACH POST.

10. SIGNAGE AND STRIPING HAS 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 AND S STANDARDS. ALL SIGNAGE AND STRIPING SHALL FALL UNDER THE REQUIREMENTS OF THE TWO-YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION. ADDITIONALLY, ALL PAVEMENT MARKINGS SHALL NOT LIFT OR PEEL DURING THE FIRST YEAR AFTER INSTALLATION.

11. DIAMOND GRADE MATERIAL SHALL BE USED ON ALL STOP SIGNS AND OVERHEAD SIGNS. ALL OTHER ROADSIDE TRAFFIC CONTROL DEVICES SHALL USE HIGH INTENSITY GRADE SHEETING. NO FLUORESCENT 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 INCHES BLADES WITH 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.

15. CROSSWALKS:

SHALL BE CONSTRUCTED USING PREFORMED THERMO-PLASTIC OR AN APPROVED EQUAL.

SHALL BE LONGITUDINAL 2 FEET BY 10 FEET (CONTINENTAL) TYPE OR OTHER APPROVED BY THE TOWN OF PARKER.

SHALL LINE UP WITH HANDICAP RAMPS. SHALL BE CENTERED WITHIN LANES AND PLACED ON LANE AND CURB LINES SO AS TO AVOID VEHICLE WHEEL PATHS.

16. ALL PAVEMENT MARKING MATERIAL (INCLUDING WORDS AND SYMBOLS) SHALL BE AS FOLLOWS:

FOR CONCRETE SURFACE:

LONG LINE MARKINGS (CHANNELIZATION LINES, SKIPS, ETC.) SHALL BE EPOXY PAINT. OTHER PAINT MAY BE USED FOR TEMPORARY APPLICATION ONLY WHEN APPROVED BY THE TOWN OF PARKER.

WORDS, SYMBOLS, AND CROSSWALKS/STOP BARS SHALL BE METHYL-MYTHACRALATE, PREFORMED THERMOPLASTIC (90 MIL), PREFORMED PLASTIC (90 MIL), INLAYED TAPE (STAMARK), OR AS SPECIFIED.

(SAND OR WATER BLAST CURING COMPOUND PRIOR TO INSTALLATION OF MARKINGS.)

FOR ASPHALT SURFACE:

LONG LINE MARKINGS (CHANNELIZATION LINES, SKIPS, ETC.) SHALL BE EPOXY PAINT. OTHER PAINT MAY BE USED FOR TEMPORARY APPLICATION ONLY WHEN APPROVED BY THE TOWN OF PARKER.

WORDS, SYMBOLS, AND CROSSWALKS/STOP BARS SHALL BE HOT APPLIED THERMOPLASTIC (90 MIL), PREFORMED PLASTIC (90 MIL), INLAYED TAPE (STAMARK), METHYL-MYTHACRALATE, OR AS SPECIFIED.

17. INSPECTION AND APPROVAL OF STRIPING AND CROSSWALK LAYOUT TO BE DONE BY TOWN OF PARKER DEVELOPMENT REVIEW ENGINEER (CALL 303-840-9546) PRIOR TO APPLICATION OF FINAL STRIPING.

## CONSTRUCTION NOTES

1. 4" WIDE, WHITE PARKING SPACE MARKING
2. WHITE CROSSWALK MARKINGS PER DETAIL "A"
3. DIRECTIONAL ARROW PER DETAIL "B"
4. 4" WIDE, WHITE, SOLID DIAGONAL MARKINGS AT 5' SPACING ANGLED AT 30 DEGREES
5. INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING PER MUTCD
6. "DO NOT ENTER" PAVEMENT LEGEND
7. R1-1 SIGN PER MUTCD
8. "HANDICAP PARKING ONLY" SIGN AND "VAN ACCESSIBLE" SIGN
9. SINGLE VEHICLE CLEARANCE BAR PER DETAIL "C" ON SHEET SS-02
10. DIGITAL PREVIEW BOARD PER DETAIL "D" ON SHEET SS-02
11. DIGITAL MENU BOARD PER DETAIL "E" ON SHEET SS-02
12. PYLON SIGN PER DETAIL "F" ON SHEET SS-02. SIGN LEGEND AND SIZE TO BE DETERMINED BY ARCHITECT.
13. ORDER CANOPY PER DETAIL "G" ON SHEET SS-02
14. DIRECTIONAL SIGN PER DETAIL "H" ON SHEET SS-02. SIGN FACE(S) AS NOTED ON PLAN

## LEGEND

PROPERTY BOUNDARY

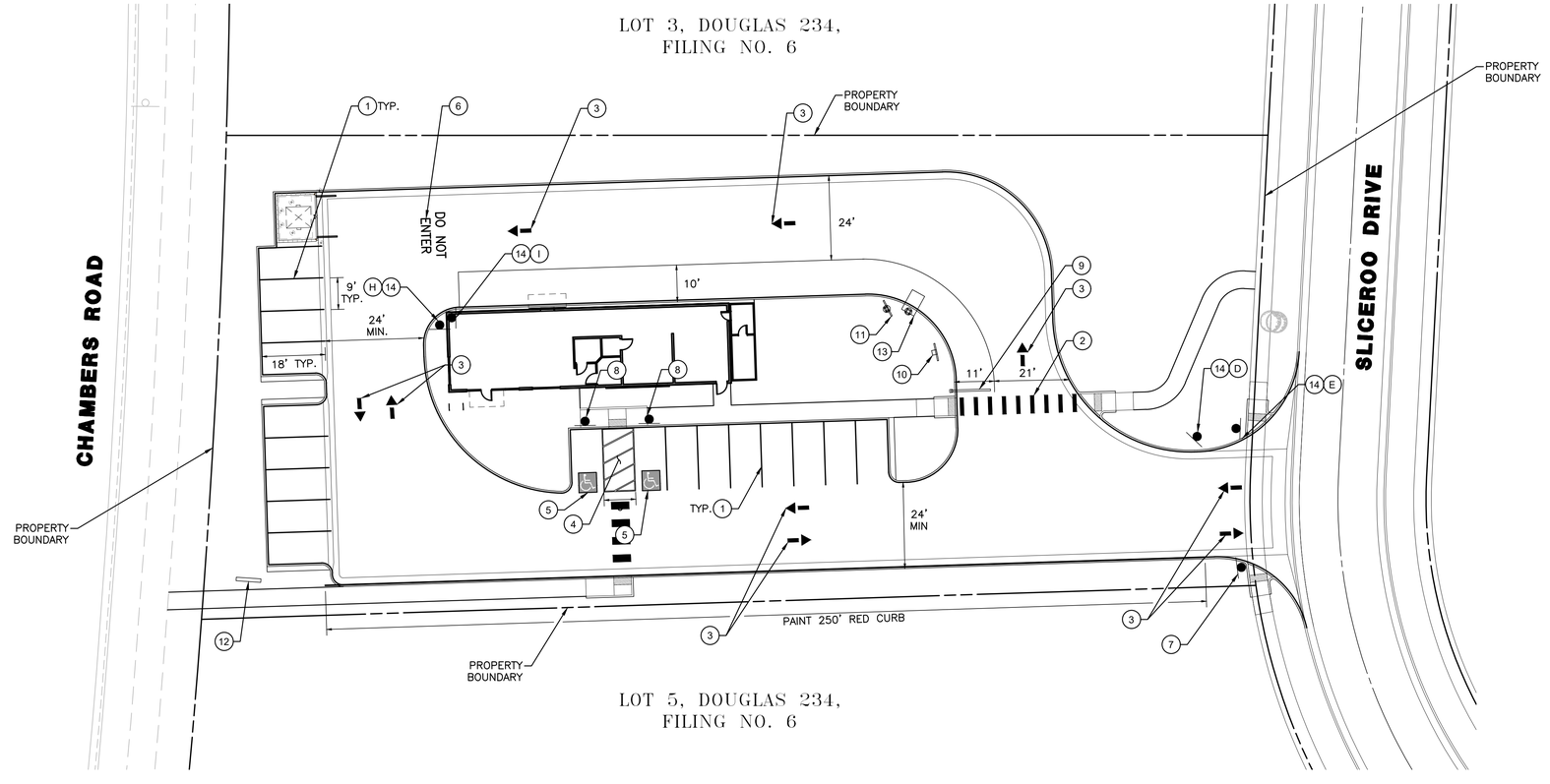
PROPOSED SIGN

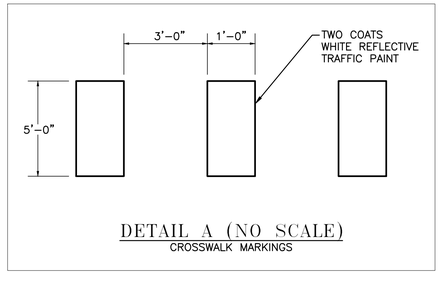
EXISTING SIGN

## PROPOSED SIGNS THIS SHEET:

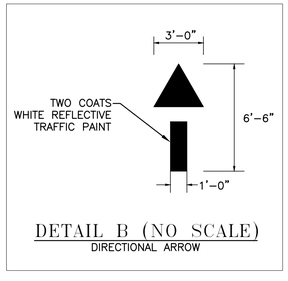



R1-1 "HANDICAP PARKING ONLY" "VAN ACCESSIBLE"

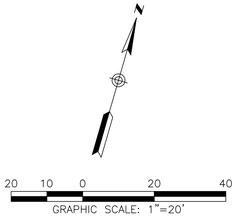



DETAIL A (NO SCALE)
CROSSWALK MARKINGS




DETAIL B (NO SCALE)
DIRECTIONAL ARROW




## TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:


RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com


| | |
|---|---|
| PROJECT NO: | 2243 |
| DRAWN/DESIGNED BY: | PJ |
| DATE: | 02/18/2022 |
| CHECKED BY: | BRS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

SS-01

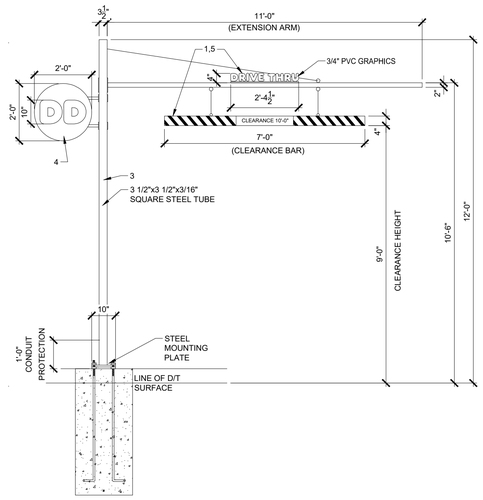
Know what's below. Call before you dig.

DRAWING NO. 6

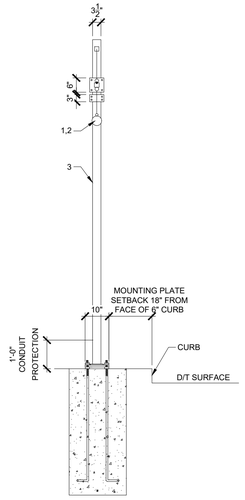
SHEET NO. 6 OF 26

2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Traffic\PlanSets\2243-T-SS01.dwg - plotted by: kalazard ON 2023-08-24 @ 08:44 - ctb:rec_mcs.ctb - ©2023 Rick Engineering Company




FRONT VIEW (SINGLE LANE)




SIDE VIEW

NON-ILLUMINATED DRIVE-THRU STRUCTURE

NOTES:
1. PAINT TO MATCH ORANGE PMS 165C, GLOSS FINISH.
2. PAINT TO MATCH PINK PMS 219C, GLOSS FINISH.
3. PAINT TO MATCH PMS COOL GRAY 1C, GLOSS FINISH.
4. OPTIONAL 24" x 24" MEDALLION SIGN WITH REMOVABLE / ADJUSTABLE PLATES, SINGLE SIDED VINYL.
5. OPTIONAL REFLECTIVE FILM:
   3M U680CR-10 SCOTCHLITE REFLECTIVE MCS (LATEX OR SOLVENT INKS)
   8519 LUSTER PROTECTIVE LAMINATE PRINTED TO MATCH.

- PMS 165 DUNKIN' ORANGE
- PMS 219 DUNKIN' PINK
- PMS 7540C DUNKIN' GRAY
- PMS COOL GRAY 1C

COLORS:

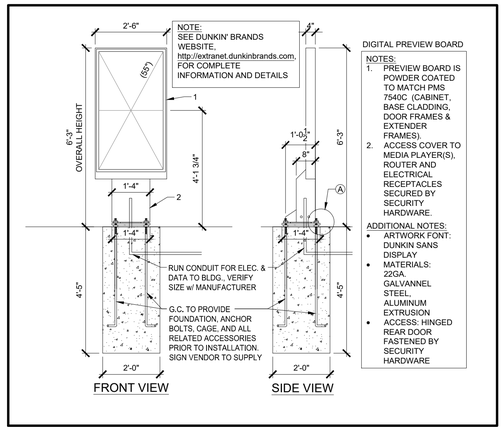
| PMS | VINYL/PAINT |
|---|---|
| PMS 165 DD ORANGE | TRANS 3M #3630-3123 |
| PMS 219 DD PINK | TRANS 3M #3630-1379 |
| PMS 7540C DD GRAY | TRANS 3M #7725-41 |
| PMS COOL GRAY 1C | TRANS 3M #7725-11 |

NOTE:
SEE DUNKIN' BRANDS WEBSITE, http://extranet.dunkinbrands.com,
FOR COMPLETE INFORMATION AND DETAILS

ADDITIONAL NOTES:
- ARTWORK FONT: DUNKIN SANS DISPLAY
- 120 VOLT CIRCUIT, TO BE CONFIRMED BY SITE
- CLEARANCE TO BE CONFIRMED BY SITE

NOTE:
INSTALLER MUST BE SURE TO SHIM CANOPY PLATE AT BOTTOM, AND ADJUST ANCHOR BOLTS AT BOTTOM OF COLUMN SO THAT THE CANOPY SITS WITH A $\frac{1}{4}$" / FT FALL FROM OPEN SIDE TO POLE SIDE SO WATER WILL DRAIN OFF POLE SIDE.

## DETAIL C ( NO SCALE)
SINGLE VEHICLE CLEARANCE BAR

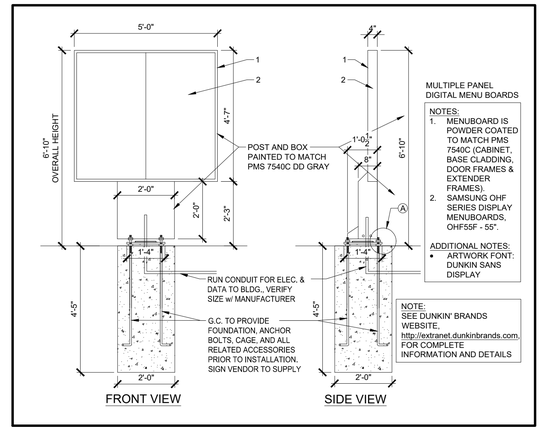



DIGITAL PREVIEW BOARD

NOTES:
1. PREVIEW BOARD IS POWDER COATED TO MATCH PMS 7540C (CABINET, BASE CLADDING, DOOR FRAMES & EXTENDER FRAMES).
2. ACCESS COVER TO MEDIA PLAYER(S), ROUTER AND ELECTRICAL RECEPTACLES SECURED BY SECURITY HARDWARE.

ADDITIONAL NOTES:
- ARTWORK FONT: DUNKIN SANS DISPLAY
- MATERIALS: 22GA. GALVANNEL STEEL, ALUMINUM EXTRUSION
- ACCESS: HINGED REAR DOOR FASTENED BY SECURITY HARDWARE

## DETAIL D ( NO SCALE)
DIGITAL PREVIEW BOARD



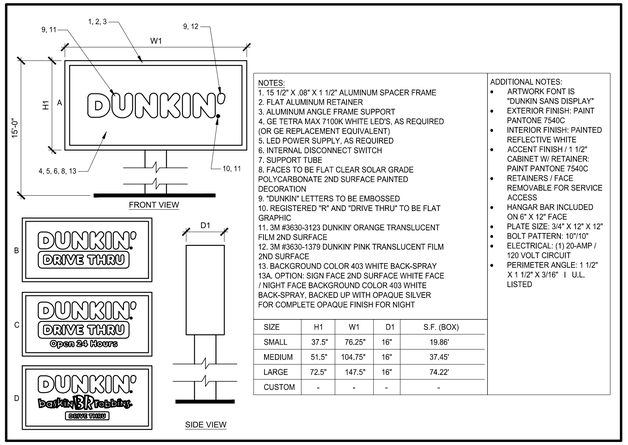

MULTIPLE PANEL
DIGITAL MENU BOARDS

NOTES:
1. MENUBOARD IS POWDER COATED TO MATCH PMS 7540C (CABINET, BASE CLADDING, DOOR FRAMES & EXTENDER FRAMES).
2. SAMSUNG OHF SERIES DISPLAY MENUBOARDS. OHF55F - 55".

ADDITIONAL NOTES:
- ARTWORK FONT: DUNKIN SANS DISPLAY

NOTE:
SEE DUNKIN' BRANDS WEBSITE, http://extranet.dunkinbrands.com, FOR COMPLETE INFORMATION AND DETAILS

## DETAIL E ( NO SCALE)
DIGITAL MENU BOARD

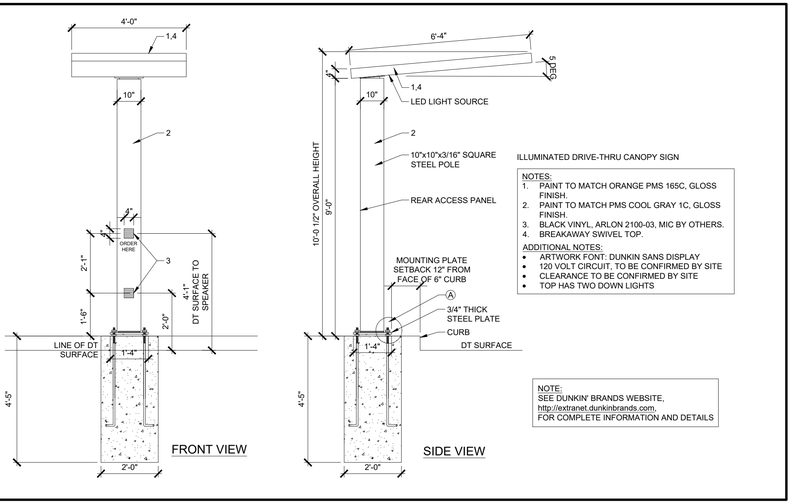



NOTES:
1. 15 1/2" X .08" X 1 1/2" ALUMINUM SPACER FRAME
2. FLAT ALUMINUM RETAINER
3. ALUMINUM ANGLE FRAME SUPPORT
4. GE TETRA MAX 7100K WHITE LED'S, AS REQUIRED (OR GE REPLACEMENT EQUIVALENT)
5. LED POWER SUPPLY, AS REQUIRED
6. INTERNAL DISCONNECT SWITCH
7. SUPPORT TUBE
8. FACES TO BE FLAT CLEAR SOLAR GRADE POLYCARBONATE 2ND SURFACE PAINTED DECORATION
9. "DUNKIN" LETTERS TO BE EMBOSSED
10. REGISTERED "R" AND "DRIVE THRU" TO BE FLAT GRAPHIC
11. 3M #3630-3123 DUNKIN' ORANGE TRANSLUCENT FILM 2ND SURFACE
12. 3M #3630-1379 DUNKIN' PINK TRANSLUCENT FILM 2ND SURFACE
13. BACKGROUND COLOR 403 WHITE BACK-SPRAY
13A. OPTION: SIGN FACE 2ND SURFACE WHITE FACE / NIGHT FACE BACKGROUND COLOR 403 WHITE BACK-SPRAY, BACKED UP WITH OPAQUE SILVER FOR COMPLETE OPAQUE FINISH FOR NIGHT

| SIZE | H1 | W1 | D1 | S.F. (BOX) |
|---|---|---|---|---|
| SMALL | 37.5" | 76.25" | 16" | 19.86' |
| MEDIUM | 51.5" | 104.75" | 16" | 37.45' |
| LARGE | 72.5" | 147.5" | 16" | 74.22' |
| CUSTOM | - | - | - | - |

ADDITIONAL NOTES:
- ARTWORK FONT IS "DUNKIN SANS DISPLAY"
- EXTERIOR FINISH: PAINT PANTONE 7540C
- INTERIOR FINISH: PAINTED REFLECTIVE WHITE
- ACCENT FINISH / 1 1/2" CABINET W/ RETAINER: PAINT PANTONE 7540C
- RETAINERS / FACE REMOVABLE FOR SERVICE ACCESS
- HANGAR BAR INCLUDED ON 6" X 12" FACE
- PLATE SIZE: 3/4" X 12" X 12"
- BOLT PATTERN: 10"/10"
- ELECTRICAL: (1) 20-AMP / 120 VOLT CIRCUIT
- PERIMETER ANGLE: 1 1/2" X 1 1/2" X 3/16" I U.L. LISTED

## DETAIL F ( NO SCALE)
PYLON SIGN



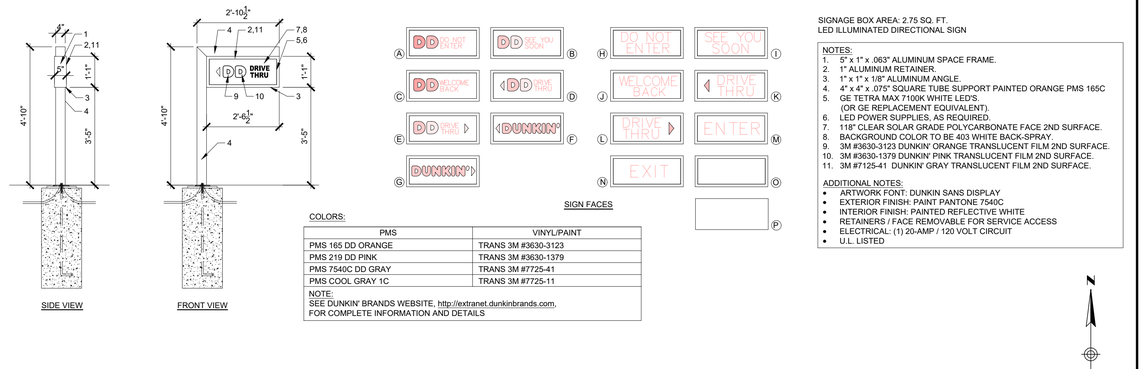

ILLUMINATED DRIVE-THRU CANOPY SIGN

NOTES:
1. PAINT TO MATCH ORANGE PMS 165C, GLOSS FINISH.
2. PAINT TO MATCH PMS COOL GRAY 1C, GLOSS FINISH.
3. BLACK VINYL, ARLON 2100-03, MIC BY OTHERS.
4. BREAKAWAY SWIVEL TOP.

ADDITIONAL NOTES:
- ARTWORK FONT: DUNKIN SANS DISPLAY
- 120 VOLT CIRCUIT, TO BE CONFIRMED BY SITE
- CLEARANCE TO BE CONFIRMED BY SITE
- TOP HAS TWO DOWN LIGHTS

NOTE:
SEE DUNKIN' BRANDS WEBSITE,
http://extranet.dunkinbrands.com,
FOR COMPLETE INFORMATION AND DETAILS

## DETAIL G ( NO SCALE)
ORDER CANOPY




SIGNAGE BOX AREA: 2.75 SQ. FT.
LED ILLUMINATED DIRECTIONAL SIGN

NOTES:
1. 5" x 1" x .063" ALUMINUM SPACE FRAME.
2. 1" ALUMINUM RETAINER.
3. 1" x 1" x 1/8" ALUMINUM ANGLE.
4. 4" x 4" x .075" SQUARE TUBE SUPPORT PAINTED ORANGE PMS 165C
5. GE TETRA MAX 7100K WHITE LED'S. (OR GE REPLACEMENT EQUIVALENT).
6. LED POWER SUPPLIES, AS REQUIRED.
7. 118" CLEAR SOLAR GRADE POLYCARBONATE FACE 2ND SURFACE.
8. BACKGROUND COLOR TO BE 403 WHITE BACK-SPRAY.
9. 3M #3630-3123 DUNKIN' ORANGE TRANSLUCENT FILM 2ND SURFACE.
10. 3M #3630-1379 DUNKIN' PINK TRANSLUCENT FILM 2ND SURFACE.
11. 3M #7125-41 DUNKIN' GRAY TRANSLUCENT FILM 2ND SURFACE.

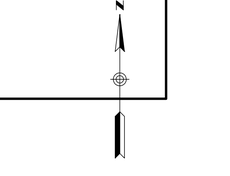
ADDITIONAL NOTES:
- ARTWORK FONT: DUNKIN SANS DISPLAY
- EXTERIOR FINISH: PAINT PANTONE 7540C
- INTERIOR FINISH: PAINTED REFLECTIVE WHITE
- RETAINERS / FACE REMOVABLE FOR SERVICE ACCESS
- ELECTRICAL: (1) 20-AMP / 120 VOLT CIRCUIT
- U.L. LISTED

COLORS:

| PMS | VINYL/PAINT |
|---|---|
| PMS 165 DD ORANGE | TRANS 3M #3630-3123 |
| PMS 219 DD PINK | TRANS 3M #3630-1379 |
| PMS 7540C DD GRAY | TRANS 3M #7725-41 |
| PMS COOL GRAY 1C | TRANS 3M #7725-11 |

NOTE:
SEE DUNKIN' BRANDS WEBSITE, http://extranet.dunkinbrands.com,
FOR COMPLETE INFORMATION AND DETAILS

## DETAIL H ( NO SCALE)
DIRECTIONAL SIGNS




| NO. | BY | DATE | REVISION |
|---|---|---|---|
| | | | |

SEAL:


RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com


| | |
|---|---|
| PROJECT NO: | 2243 |
| DRAWN/DESIGNED BY: | KA/JS |
| DATE: | 02/18/2022 |
| CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

SS-02

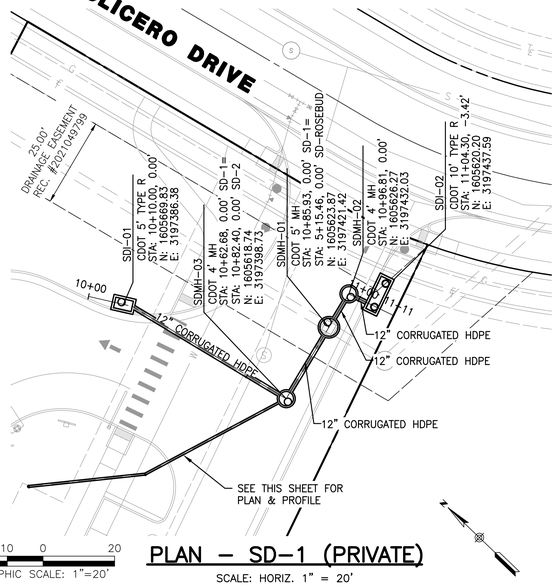
Know what's below. Call before you dig.

DRAWING NO. 7

SHEET NO. 7 OF 26

2ND SUBMITTAL

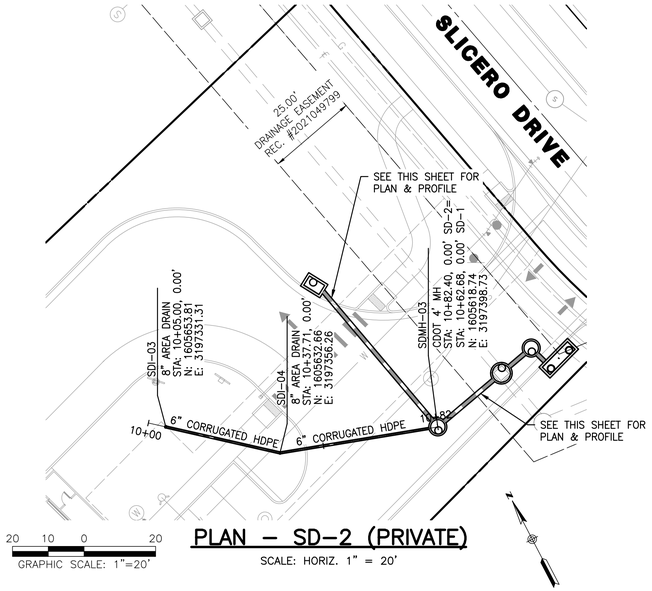

C:\RICK\Projects\002000\2243_DunkinDonuts\Traffic\PlanSets\2243-T-SS02.dwg — plotted by: kalazard ON 2023-08-28 @ 08:05 — ctb:rec_ncs.ctb — © 2023 Rick Engineering Company




20 10 0 20
GRAPHIC SCALE: 1"=20'

## PLAN – SD–1 (PRIVATE)

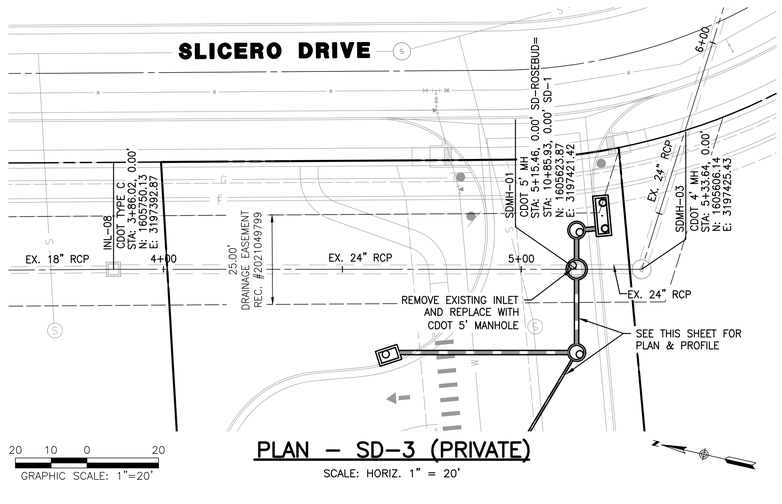
SCALE: HORIZ. 1" = 20'




20 10 0 20
GRAPHIC SCALE: 1"=20'

## PLAN – SD–2 (PRIVATE)

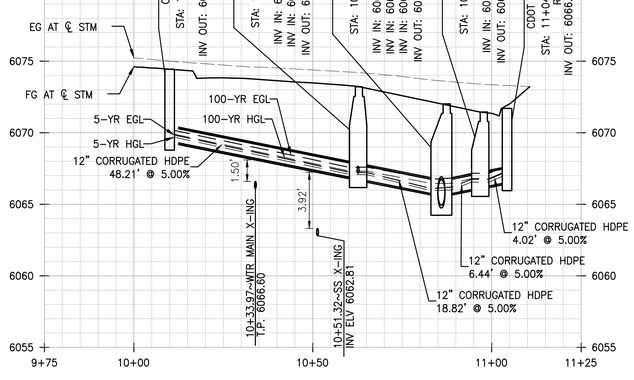
SCALE: HORIZ. 1" = 20'




20 10 0 20
GRAPHIC SCALE: 1"=20'

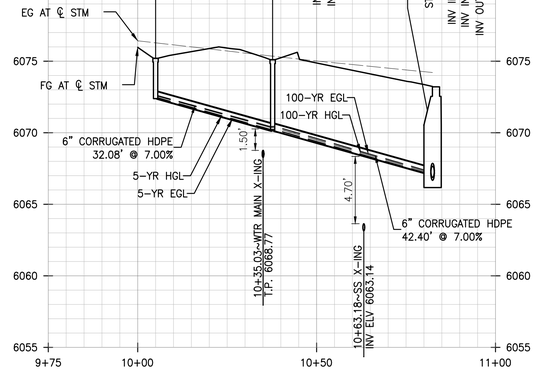
## PLAN – SD–3 (PRIVATE)

SCALE: HORIZ. 1" = 20'



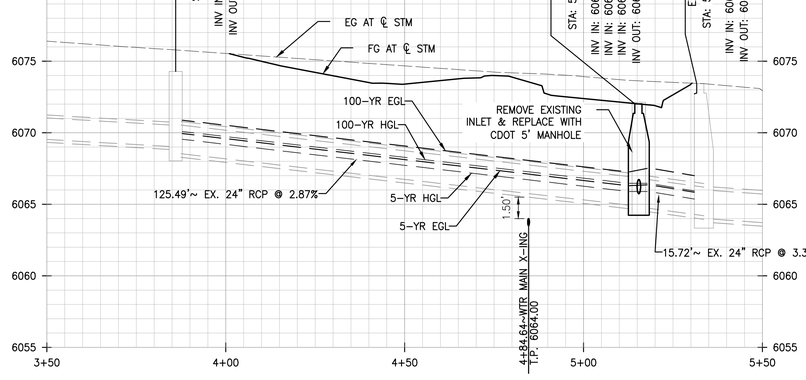

## PROFILE – SD–1 (PRIVATE)

SCALE: HORIZ. 1"=20', VERT. 1"=5'




## PROFILE – SD–2 (PRIVATE)

SCALE: HORIZ. 1"=20', VERT. 1"=5'




## PROFILE – SD–3 (PRIVATE)

SCALE: HORIZ. 1"=20', VERT. 1"=5'

## STORM SEWER NOTES

1. 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.
2. REFER TO GENERAL NOTES ON SHEET 2 FOR ALL APPLICABLE CONSTRUCTION STANDARDS.
3. ALL STATIONING OFFSETS ARE TAKEN FROM CENTERLINE UNLESS OTHERWISE NOTED. REFER TO FINAL PLAT FOR RIGHT–OF–WAY AND CENTERLINE DIMENSIONS AND HORIZONTAL CONTROL.
4. 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.
5. ALL STORM SEWER PIPE LENGTHS ARE TO CENTER OF STRUCTURE FOR MANHOLES AND TO THE INSIDE OF THE CONCRETE BOX FOR TYPE–R AND TYPE–C INLETS.
6. ALL WATER MAIN CROSSINGS WITH STORM SEWER AND SANITARY SEWER SHALL HAVE A MINIMUM OF 18" CLEAR DISTANCE, VERTICAL. PIPE PROTECTION AT ALL CROSSINGS SHALL BE PROVIDED PER TOWN OF PARKER AND STATE SPECIFICATIONS.
7. ALL STORM SEWER SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED.
8. A BLANKET DRAINAGE AND PUBLIC ACCESS EASEMENT IS DEDICATED ACROSS THE PRIVATE DRIVE TRACT AS SHOWN ON THE MINOR DEVELOPMENT PLAT.

## TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON–SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

_____

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:

8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

| | |
|---|---|
| PROJECT NO: | 2243 |
| DATE: | 8/24/2023 |
| DRAWN/DESIGNED BY: | KA/JS |
| CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

# STORM DRAIN PLAN & PROFILE

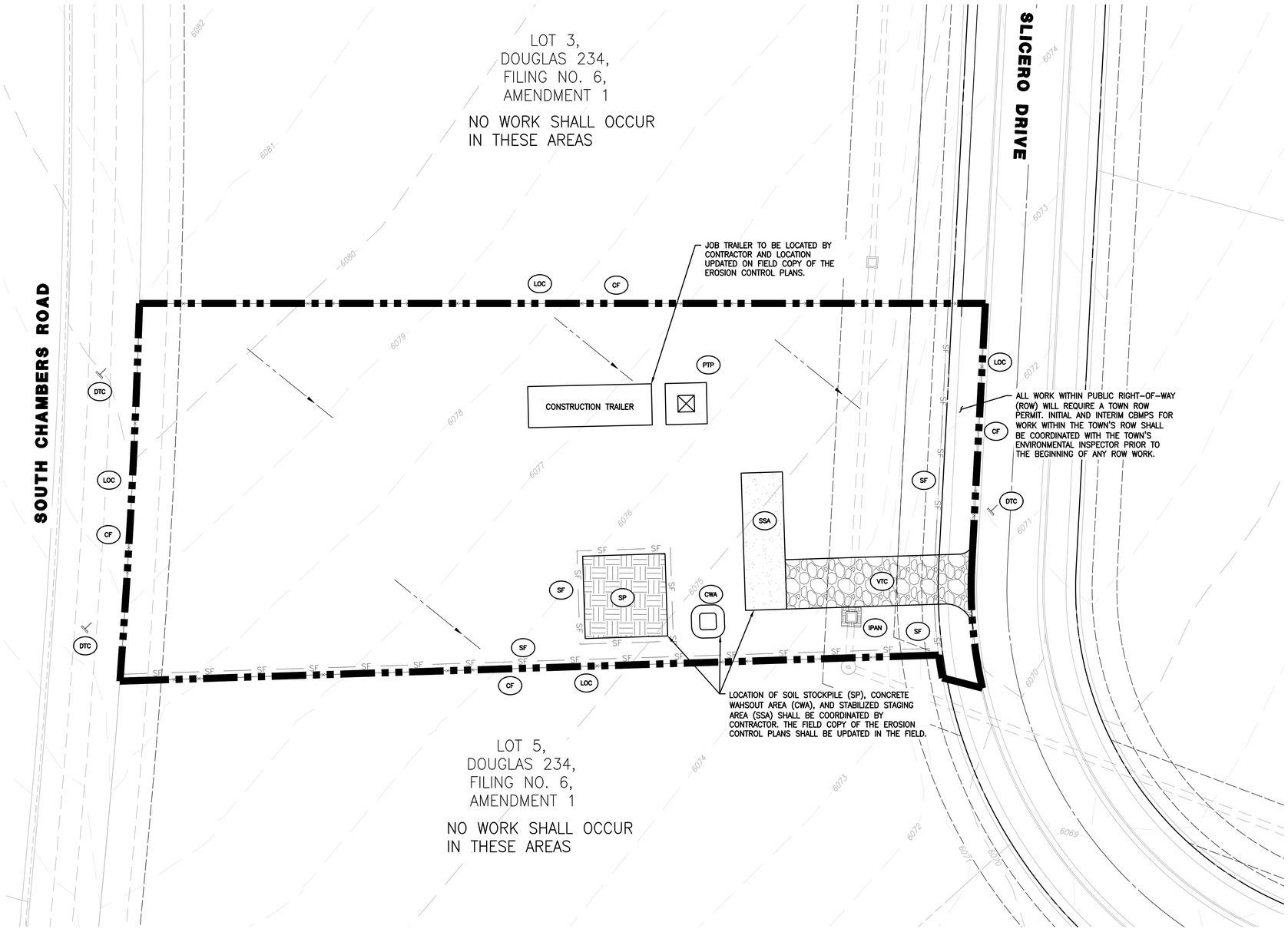
811 Know what's below. Call before you dig.

DRAWING NO. 8

SHEET NO. 8 OF 26

2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-SD01.dwg – plotted by: kalazard ON 2023-08-24 @ 08:45 – ctb:rec_ncs.ctb – ©2023 Rick Engineering Company




## NOTES:

1. SILT FENCE TO BE INSTALLED IN AREAS OF SIGNIFICANT TOPOGRAPHY AND SHALL HAVE STAKES @ 5'-0" O.C.
2. ALL SILT FENCE AND OTHER SEDIMENT BMP'S MUST BE PLACED IMMEDIATELY BEHIND THE BACK OF CURB OR SIDEWALK. IF GAP EXISTS AFTER INSTALLATION, ECB MAY BE NECESSARY.
3. LOT PROTECTION (LP) IS REQUIRED ON COMMERCIAL LOTS WHEN LANDSCAPING IS NOT POSSIBLE.
4. ALL CONSTRUCTION TRASH MUST BE THOROUGHLY CLEANED UP ON A DAILY BASIS.
5. REFER TO IRRIGATION AND LANDSCAPE PLANS FOR TEMPORARY IRRIGATION PLANS.
6. ALL PERMANENT SLOPES STEEPER THAN 4:1 NEED ECB.
7. CONCRETE WASHOUT, STABILIZED STAGING AREA, PORTABLE TOILETS AND SOIL STOCKPILE LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR/DEVELOPER AND UPDATED ON THE STORMWATER MANAGEMENT PLAN AS REQUIRED BY THE STATE ISSUED STORMWATER DISCHARGE PERMIT. ANY CBMP PLAN CHANGES SHALL BE COORDINATED THROUGH THE TOWN'S ENVIRONMENTAL INSPECTOR.

## LEGEND

- CWA — CONCRETE WASHOUT AREA
- IPAN — INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT
- LOC — LIMITS OF CONSTRUCTION
- PTP — PORTABLE TOILET PROTECTION
- SF — SILT FENCE
- CF — CONSTRUCTION FENCE
- SSA — STABILIZED STAGING AREA
- VTC — VEHICLE TRACKING CONTROL
- SP — SOIL STOCKPILE
- DTC — DEBRIS TRASH CONTROL

## TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

_____

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

20 10 0 20 40
GRAPHIC SCALE: 1"=20'

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:


8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver


| | |
|---|---|
| PROJECT NO: | 2243 |
| DRAWN/DESIGNED BY: | KA/JS |
| DATE: | 8/24/2023 |
| CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## INITIAL CBMP PLAN

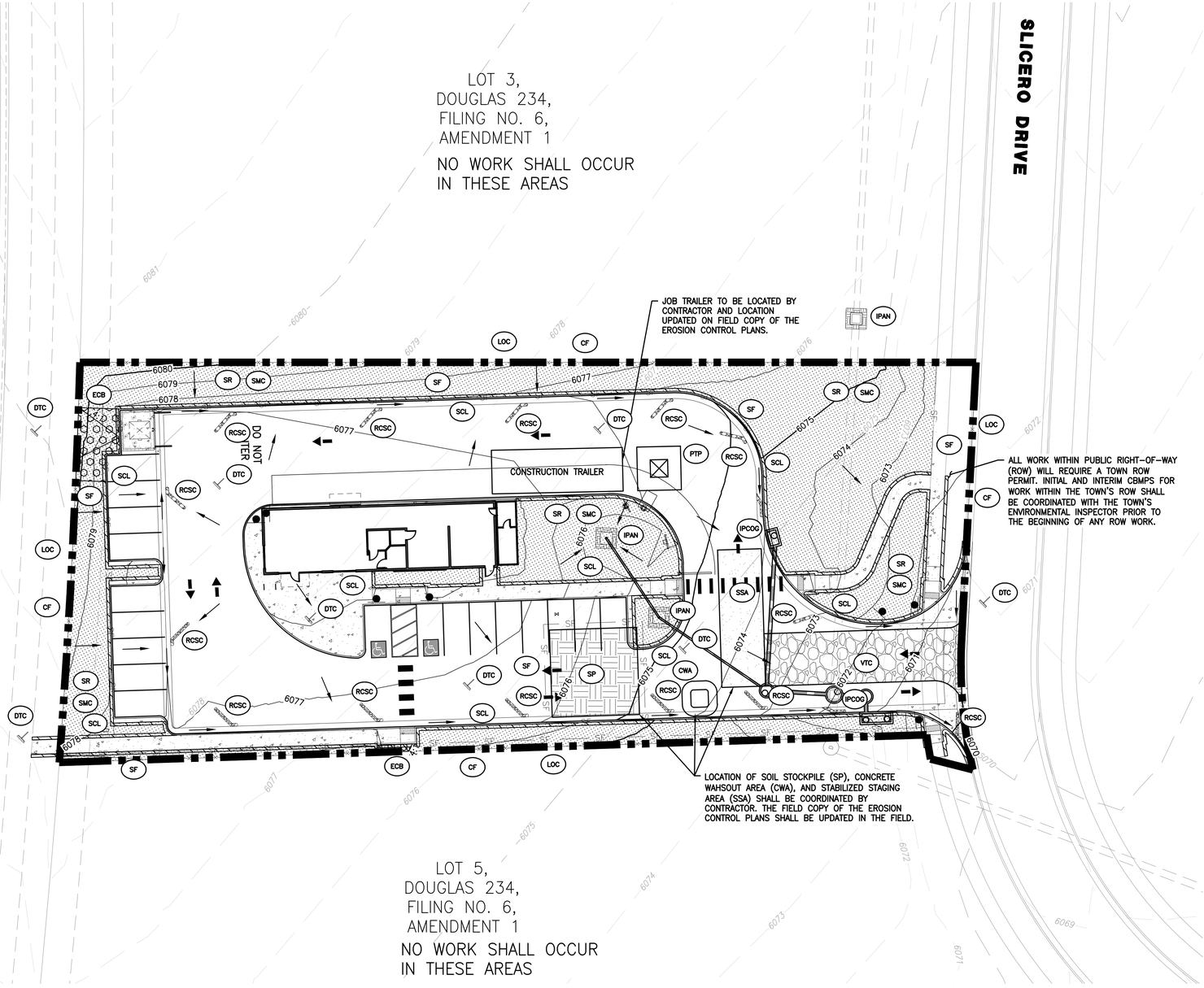
811 Know what's below. Call before you dig.

DRAWING NO. 9

SHEET NO. 9 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-EC_INITIAL.dwg - plotted by: kalozard ON 2023-08-24 @ 08:45 - ctb:rec_ncs.ctb - © 2023 Rick Engineering Company




## NOTES:

1. SILT FENCE TO BE INSTALLED IN AREAS OF SIGNIFICANT TOPOGRAPHY AND SHALL HAVE STAKES @ 5'-0" O.C.
2. ALL SILT FENCE AND OTHER SEDIMENT BMP'S MUST BE PLACED IMMEDIATELY BEHIND THE BACK OF CURB OR SIDEWALK. IF GAP EXISTS AFTER INSTALLATION, ECB MAY BE NECESSARY.
3. LOT PROTECTION (LP) IS REQUIRED ON COMMERCIAL LOTS WHEN LANDSCAPING IS NOT POSSIBLE.
4. ALL CONSTRUCTION TRASH MUST BE THOROUGHLY CLEANED UP ON A DAILY BASIS.
5. REFER TO IRRIGATION AND LANDSCAPE PLANS FOR TEMPORARY IRRIGATION PLANS.
6. ALL PERMANENT SLOPES STEEPER THAN 4:1 NEED ECB.
7. CONCRETE WASHOUT, STABILIZED STAGING AREA, PORTABLE TOILETS AND SOIL STOCKPILE LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR/DEVELOPER AND UPDATED ON THE STORMWATER MANAGEMENT PLAN AS REQUIRED BY THE STATE ISSUED STORMWATER DISCHARGE PERMIT. ANY CBMP PLAN CHANGES SHALL BE COORDINATED THROUGHT THE TOWN'S ENVIRONMENTAL INSPECTOR.
8. EROSION CONTROL BLANKET (ECB) MAY BE UTILIZED OVER THE ENTIRE TREE LAWN IN LIEU OF THE SCL.

## LEGEND

- CWA — CONCRETE WASHOUT AREA
- IPAN — INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT
- LOC — LIMITS OF CONSTRUCTION
- PTP — PORTABLE TOILET PROTECTION
- SF — SILT FENCE
- CF — CONSTRUCTION FENCE
- SSA — STABILIZED STAGING AREA
- VTC — VEHICLE TRACKING CONTROL
- SP — SOIL STOCKPILE
- DTC — DEBRIS TRASH CONTROL
- IPCOG — INLET PROTECTION, CURB ON SUMP, TYPE R INLET
- SCL — SEDIMENT CONTROL LOG
- ECB — EROSION CONTROL BLANKET
- SMC — SEEDING, MULCHING AND CRIMPING
- SR — SURFACE ROUGHING
- RCSC — ROUGH CUT STREET CONTROL

## TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

_____

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

GRAPHIC SCALE: 1"=20'

| NO. | BY | DATE | REVISION |
|---|---|---|---|
| | | | |

SEAL:


RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com


| | |
|---|---|
| PROJECT NO: | 2243 |
| DRAWN/DESIGNED BY: | KA/JS |
| DATE: | 8/24/2023 |
| CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## INTERIM/FINAL CBMP PLAN

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

DRAWING NO. 10

SHEET NO. 10 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-EC_INTERIM-FINAL.dwg - plotted by: kalazard ON 2023-08-24 @ 08:46 - ctb:rec_ncs.ctb - ©2023 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

1. GRADING, DRILLING, CLEARING, EXCAVATING, BACK-FILLING, SOIL STRIPPING, SOIL IMPORTING EXPORTING OR ANY OTHER FORM OF SOIL DISTURBANCE SHALL NOT COMMENCE UNTIL A TOWN OF PARKER GRADING/EXCAVATION PERMIT HAS BEEN ISSUED.

2. THE TOWN OF PARKER GRADING/EXCAVATION PERMIT IS VALID FOR A PERIOD OF 2 YEARS FROM THE DATE OF ISSUANCE. ANY LAPSE IN PERMIT COVERAGE MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND/OR FINES.

3. ALL EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED ACCORDING TO THE CBMP PLAN INSTALLATION NOTES AND DETAILS AND/OR PERMITTED VARIANCES. ALL MATERIALS, WORKMANSHIP AND INSTALLATION METHODS ARE SUBJECT TO INSPECTION BY THE TOWN'S INSPECTOR. THE TOWN OF PARKER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS, WORKMANSHIP AND/OR INSTALLATION METHODS THAT DO NOT CONFORM TO THE CBMP PLAN AND/OR PERMITTED VARIANCES.

4. THE EROSION CONTROL SUPERVISOR SHALL REVISE OR MODIFY THE EROSION AND SEDIMENT CONTROL MEASURES IF IT BECOMES APPARENT THAT THE ORIGINAL PLAN IS INADEQUATE, OR AS A RESULT OF DEFICIENCIES IDENTIFIED DURING INSPECTIONS PERFORMED BY THE TOWN'S INSPECTOR.

5. THE INSTALLATION OF ADDITIONAL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) MAY BE REQUIRED OF THE EROSION CONTROL SUPERVISOR, PROPERTY OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS AT ANY TIME THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION AND/OR SUBSEQUENT REVEGETATION PERIOD.

6. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE NOTICE OF NUISANCE REPORTS (a.k.a, CONSTRUCTION SITE RUNOFF CONTROL INSPECTION REPORTS), APPROVED CBMP PLAN(S) AND THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL.

7. THE EROSION CONTROL SUPERVISOR SHALL BE READILY AVAILABLE TO DISCUSS AND CORRECT ANY PROBLEMS THAT MAY ARISE RELATING TO GRADING, EROSION AND SEDIMENT CONTROL.

8. IF IT IS ANTICIPATED THAT ALL OR A PORTION OF THE PROJECT WILL OCCUR DURING SEASONS SUSCEPTIBLE TO SNOWFALL, THE USE OF CERTAIN EROSION AND SEDIMENT CONTROL BMPS ADJACENT TO PUBLIC ROADWAYS MAY NEED TO BE RECONSIDERED DUE TO THE NATURE OF SNOW REMOVAL OPERATIONS. AN APPROVED ALTERNATIVE MAY BE NECESSARY TO MINIMIZE DAMAGE FROM THESE OPERATIONS. THE TOWN OF PARKER ASSUMES NO RESPONSIBILITY FOR DAMAGE TO ANY BMPS AS A RESULT OF SNOW PLOWING AND SNOW REMOVAL.

9. AREAS OF LAND DISTURBANCE EQUAL TO 40 ACRES OR GREATER SHALL NOT BE EXPOSED FOR MORE THAN 30 CONSECUTIVE DAYS WITHOUT TEMPORARY OR PERMANENT STABILIZATION.

10. AUTHORIZED EXEMPTIONS MAY BE ALLOWED TO THE 40-ACRE LIMIT FOR REMOVAL AND STORAGE OF CUT MATERIAL WHERE (A) GEOTECHNICAL LIMITATIONS RESTRICT THE USE OF TEMPORARY OR PERMANENT STABILIZATION OF THE STORED MATERIAL (E.G., SWELLING SOILS, ROCK) AND (B) WHEN THE OWNER CAN DEMONSTRATE THAT THE 40-ACRE LIMIT IS PHYSICALLY AND/OR FINANCIALLY IMPRACTICABLE. FOR SITES GRANTED THIS EXEMPTION, A PHASING AND EARTHWORK QUANTITIES PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT AND APPROVED PRIOR TO THE COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES. SUBMITTAL REQUIREMENTS INCLUDE:

    (I) PHASING PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.

    (II) EARTHWORK QUANTITY PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.

    (III) BMP PLAN SHOWING SPECIFIC EROSION AND SEDIMENT CONTROLS FOR EACH PHASE.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 1 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

11. ANY EROSION AND SEDIMENT CONTROL BMPS THAT ARE DAMAGED OR IN NEED OF MAINTENANCE OR REPLACEMENT SHALL BE CORRECTED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

12. ALL DEFICIENCIES LISTED ON THE NOTICE OF NUISANCE FORM SHALL BE COMPLETED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES. ALL REQUIRED ACTIONS MUST BE IN THE CORRECTED FORM DURING THE FOLLOW-UP INSPECTION.

13. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY.

14. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS.

15. ALL TRASH RECEPTACLES ON SITE SHALL BE FREE OF HOLES, CRACKS, GAPS, AND/OR OTHER PERMEABLE AREAS THAT MAY ALLOW FOR THE DISCHARGE OF POLLUTANTS.

16. ALL TRASH RECEPTACLES ON SITE SHALL BE EMPTIED AT A FREQUENCY AS TO ENSURE THAT THE TRASH REMAINS CONFINED TO THE RECEPTACLE.

17. ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.

18. ALL PORTABLE TOILETS SHALL BE STAKED DOWN AT ALL TIMES USING U-SHAPED REBAR STAKES. THE PORTABLE TOILETS SHALL ALSO BE PLACED A MINIMUM DISTANCE OF 10 FEET FROM ALL IMPERVIOUS SURFACES, INCLUDING, BUT NOT LIMITED TO STREETS CURBS, GUTTERS, SIDEWALKS AND PARKING LOTS.

19. THE EROSION CONTROL SUPERVISOR SHALL MAINTAIN STRICT ADHERENCE TO THE LIMITS OF CONSTRUCTION AND PROPERTY LIMITS FOR ALL MATERIALS, VEHICLES AND EQUIPMENT. FAILURE TO ABIDE BY THIS REQUIREMENT MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.

20. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED. SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.

21. NO PERMANENT SLOPES GREATER THAN 3:1 ARE ALLOWED.

22. ALL PERMANENT SLOPES STEEPER THAN 4:1 (HORIZONTAL TO VERTICAL) SHALL REQUIRE EROSION CONTROL BLANKET(S). TEMPORARY SLOPES IN TEMPORARY SEDIMENT BASINS THAT ARE STEEPER THAN 4:1 MAY REQUIRE EROSION CONTROL BLANKETS.

23. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ADVERSE IMPACTS THAT OCCUR TO NEIGHBORING PROPERTIES. THE EROSION CONTROL SUPERVISOR MUST OBTAIN PERMISSION FROM LAND OWNERS PRIOR TO ENTERING SUCH PROPERTY.

24. A WATER SOURCE SHALL BE AVAILABLE ONSITE DURING CONSTRUCTION ACTIVITIES, AND UTILIZED TO MINIMIZE FUGITIVE DUST. ALTERNATIVE BMPS MAY BE REQUIRED IF INITIAL ATTEMPTS TO SUPPRESS DUST ARE UNSUCCESSFUL.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 2 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

25. ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS, INCLUDING CONCRETE WASHOUT WATER, WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDES BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER, DRY GULLIES OR STORM SEWERS LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) PER 25-8-601, AND THE TOWN OF PARKER. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AND THE CDPHE. SPILLS THAT POSE AN IMMEDIATE SAFETY HAZARD SHALL BE REPORTED TO 911.

26. THE CLEANING OF CONCRETE TRUCKS AND EQUIPMENT IS RESTRICTED TO THE APPROVED CONCRETE WASHOUT LOCATION ON THE JOB SITE. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO STATE WATERS OR STORM SEWER SYSTEMS.

27. VEHICLE AND EQUIPMENT DEGREASING IS PROHIBITED ON THE JOB SITE.

28. ALL DEWATERING ON SITE SHALL BE COORDINATED WITH THE TOWN'S INSPECTOR. A STATE PERMIT MAY BE REQUIRED FOR DEWATERING. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR OBTAINING AND ADHERING TO ALL APPLICABLE PERMITS.

29. HYDRAULIC SEEDING AND/OR HYDRAULIC MULCHING ARE ONLY ALLOWED IN AREAS UNDER TEMPORARY OR PERMANENT IRRIGATION OR FOR THE PURPOSE OF TEMPORARY SOIL STABILIZATION.

30. APPLICABLE CONSTRUCTION BMPS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL ALL LANDSCAPING HAS BEEN INSTALLED AND THE DESIRABLE VEGETATION HAS REACHED A POINT IN WHICH EROSION AND SEDIMENTATION IS NO LONGER A CONCERN AS DETERMINED BY THE TOWN'S INSPECTOR.

31. GRADING SECURITY RELEASE REQUIREMENTS:

    1) DEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H OR ITEM I (BELOW).

        A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
        B. UNIFORM PERENNIAL VEGETATION COVER HAS BEEN ESTABLISHED WITH AN INDIVIDUAL PLANT DENSITY OF AT LEAST SEVENTY PERCENT (70%) OF PRE-DISTURBANCE LEVELS.
        C. ALL CBMPS HAVE BEEN PROPERLY REMOVED FROM THE SITE.
        D. IF ANY EROSION IS PRESENT, IT IS INSIGNIFICANT AND IS NOT LEAVING THE SITE AND/OR LEADING INTO ANY ON-SITE DRAINAGE INFRASTRUCTURE THAT MAY CONVEY SURFACE WATER OFF SITE.
        E. WEEDS REPRESENT NO MORE THAN FIFTY PERCENT (50%) OF THE TOTAL VEGETATION ON THE SITE.
        F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
        G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
        H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
        I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED

    FOR THE APPLICABLE SITE OR ASSIGNMENT AS PROVIDED BY SECTION 11.10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION AT THE TIME OF CLOSING TO ENSURE THAT THE NEW SITE OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 3 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

2) NONDEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H AND J, OR ITEMS I AND J (BELOW).

    A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
    B. ALL CBMPS HAVE BEEN PROPERLY REMOVED FROM THE SITE.
    C. EROSION IS NEGLIGIBLE, IF EVEN PRESENT.
    D. THE VEGETATION REPRESENTS A PERENNIAL STAND OF A DENSE, UNIFORM SURFACE OF GRASS WITH NO AREA GREATER THAN ONE (1) SQUARE FOOT THAT IS BARREN OF DESIRABLE VEGETATION. INFREQUENT, WIDELY SCATTERED AREAS WHERE NATIVE VEGETATION HAS NOT YET TAKEN HOLD MAY QUALIFY FOR ACCEPTANCE AT THE DISCRETION OF THE TOWN.
    E. WEEDS REPRESENT NO MORE THAN TEN PERCENT (10%) OF THE TOTAL VEGETATION ON SITE.
    F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
    G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
    H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
    I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED FOR THE APPLICABLE SITE OR THE GRADING PERMIT HAS BEEN ASSIGNED AS PROVIDED BY SECTION 11.10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION, AT THE TIME OF CLOSING ON THE SALE OF A SITE THAT IS SUBJECT TO A GRADING PERMIT, TO ENSURE THAT THE NEW PROPERTY OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.
    J. ALL KNOWN DRAINAGE ISSUES ASSOCIATED WITH THE PROJECT HAVE BEEN MITIGATED AND A SUFFICIENT AMOUNT OF TIME HAS PASSED TO ENSURE THAT SUCH ISSUES HAVE BEEN CORRECTED. THIS REQUIREMENT DOES NOT INCLUDE THOSE DRAINAGE ISSUES ORIGINATING ON RESIDENTIAL LOTS.

(D) NOXIOUS WEEDS MUST BE CONTROLLED AS PROVIDED UNDER STATE LAW AND SECTION 6.01.260 OF THE TOWN OF PARKER MUNICIPAL CODE. FAILURE TO CONTROL NOXIOUS WEEDS ON THE SITE MAY CONSTITUTE A NUISANCE, SUBJECT TO THE PENALTIES CONTAINED IN THE CODE.

DEFINITIONS:

**DEVELOPABLE PROPERTY** MEANS ANY LAND THAT HAS BEEN GRADED AND IS PART OF A PLATTED LOT OR PLATTED TRACT OF RECORD, THAT WAS PLATTED FOR FUTURE DEVELOPMENT, INCLUDING RESIDENTIAL HOME CONSTRUCTION OR PUBLIC IMPROVEMENTS.

**NONDEVELOPABLE PROPERTY** MEANS LAND THAT HAS BEEN GRADED AND WILL NOT BE FURTHER DISTURBED AS PART OF ANY FUTURE DEVELOPMENT. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: PARKS, OPEN SPACE, HOMEOWNER ASSOCIATION OR BUSINESS ASSOCIATION PLATTED TRACTS, DETENTION PONDS AND DRAINAGEWAYS.

32. FAILURE TO COMPLY WITH ANY OF THE REQUIREMENTS DESCRIBED IN THIS SECTION MAY RESULT IN THE ISSUANCE OF: A NOTICE OF INTENT TO ISSUE A STOP WORK ORDER, A STOP WORK ORDER AND/OR THE REMEDIES/PENALTIES DESCRIBED IN CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE.

33. ANY PERSON CONVICTED OF VIOLATING ANY PROVISION OF THE TOWN OF PARKER, GRADING & EARTH MOVEMENT SECTION OF THE MUNICIPAL CODE SHALL BE GUILTY OF A MISDEMEANOR AND, UPON CONVICTION, BE PUNISHED BY A FINE OF NOT MORE THAN FOUR HUNDRED NINETY NINE DOLLARS ($499.00) FOR EACH SEPARATE OFFENSE. EACH DAY A VIOLATION CONTINUES SHALL CONSTITUTE A SEPARATE OFFENSE. THE TOWN ALSO MAY SEEK IN MUNICIPAL COURT AN INJUNCTION, ABATEMENT, RESTITUTION OR ANY OTHER REMEDY TO PREVENT, ENJOIN, ABATE OR REMOVE THE VIOLATION. A PERSON CONVICTED OF VIOLATING CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE SHALL BE LIABLE FOR THE ACTUAL COST OF REHABILITATING THE PROPERTY. THE COSTS MAY BE RECOVERED AS RESTITUTION IN MUNICIPAL COURT PROCEEDINGS OR IN A SEPARATE CIVIL ACTION.

34. THE TOWN OF PARKER RESERVES THE RIGHT TO ALLOW MODIFICATIONS AND SUBSTITUTIONS TO THE CBMP NOTES AND DETAILS WHEN SUCH MODIFICATIONS AND SUBSTITUTIONS OFFER THE SAME LEVEL OF PROTECTION AS THE STANDARD REQUIREMENTS BASED UPON THE SPECIFIC SITUATION, AS DETERMINED BY TOWN STAFF. DUE TO THE INSIGNIFICANCE AND REGULARITY OF SUCH MODIFICATIONS AND SUBSTITUTIONS, THE APPROVAL OF SUCH VARIATIONS MAY NOT BE DOCUMENTED BY TOWN STAFF.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | GEN NOTES 4 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

| | | |
|---|---|---|
| CD | CHECK DAM | |
| CF | CONSTRUCTION FENCE | |
| CP | CULVERT PROTECTION | |
| CWA | CONCRETE WASHOUT AREA | |
| D | DEWATERING | |
| DD | DIVERSION DITCH | |
| DP | DETENTION POND PROTECTION | |
| DTC | DEBRIS TRASH CONTROL | |
| ECB | EROSION CONTROL BLANKET | |
| IPAN | INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT | |
| IPAP | INLET PROTECTION FOR AREA INLETS IN PAVEMENT | |
| IPCOG | INLET PROTECTION, CURB ON-GRADE, TYPE R INLET | |
| IPCOS | INLET PROTECTION, CURB ON SUMP, TYPE R INLET | |

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 1 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

| | | |
|---|---|---|
| LP | LOT PROTECTION | |
| MWP | MASONRY WORK PROTECTION | |
| PTP | PORTABLE TOILET PROTECTION | |
| RCSC | ROUGH CUT STREET CONTROL | |
| RS | ROCK SOCK | |
| RSS | ROCK SOCK IN SWALE | |
| SB | STRAW BALE | |
| SCL | SEDIMENT CONTROL LOGS | |
| SF | SILT FENCE | |
| SMC | SEEDING, MULCHING AND CRIMPING | |
| SR | SURFACE ROUGHING | |
| SSA | STABILIZED STAGING AREA | |
| STP | SIDEWALK TRANSITION PROTECTION | |

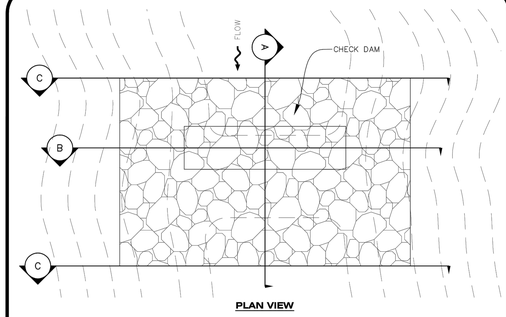
Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 2 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

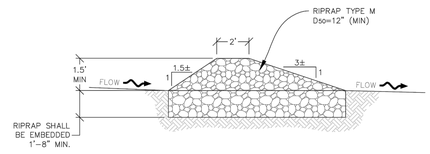
| | | |
|---|---|---|
| TI | TEMPORARY IRRIGATION | |
| TSB | TEMPORARY SEDIMENT BASIN | |
| VTC | VEHICLE TRACKING CONTROL | |

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LEGEND 3 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




PLAN VIEW




SECTION A

CD CHECK DAM

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | CD 1 OF 3 Oct. 2013

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

PROJECT NO: 2243 DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 CHECKED BY: JS

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

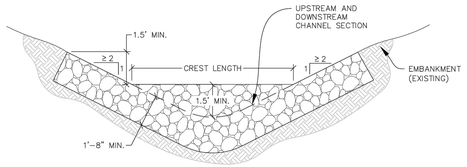
Know what's below. Call before you dig.

DRAWING NO. 11
SHEET NO. 11 OF 26

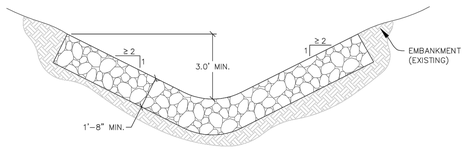
2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL01.dwg — plotted by: kalozard ON 2023-08-24 @ 08:46 — ctb:rec_rpt.ctb — © 2022 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



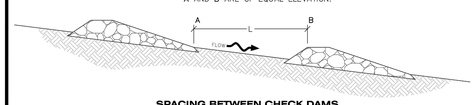

**SECTION B**




**SECTION C**

**NOTE:** SECTION C IS LOCATED IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE CHECK DAM, THEREFORE NO ROCK IS SHOWN WITHIN THE CHANNEL FLOW AREA.

L = THE DISTANCE SUCH THAT POINT **A** AND **B** ARE OF EQUAL ELEVATION.




**SPACING BETWEEN CHECK DAMS**

CD **CHECK DAM**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**CHECK DAM INSTALLATION NOTES**

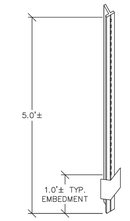
1. SEE PLAN VIEW FOR LOCATION(S) OF CHECK DAMS.
2. CHECK DAMS SHOWN ON CBMP PLAN SHALL BE INSTALLED WHEN DIRECTED BY THE TOWN'S INSPECTOR.
3. RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D50 MEDIAN STONE SIZE OF 12".
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-8".
5. THE MAXIMUM SPACING BETWEEN CHECK DAMS SHOULD BE SUCH THAT THE BOTTOM OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM AS SHOWN IN THE DETAIL.

**CHECK DAM INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CHECK DAMS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE CREST OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. CHECK DAMS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. WHEN CHECK DAMS ARE REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE EXCAVATIONS TO BE FILLED WITH SUITABLE COMPACTED TOPSOIL AND ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CHECK DAMS BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
5. IN SOME INSTANCES, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY.

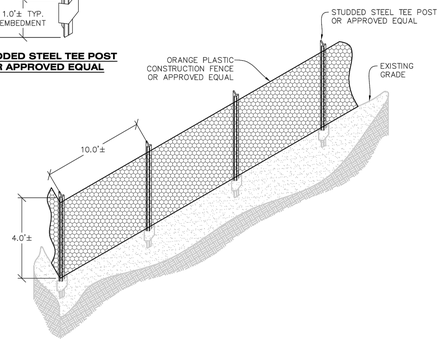


NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**NOTE:**
CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO EACH TEE POST OR APPROVED EQUAL.

**STUDDED STEEL TEE POST OR APPROVED EQUAL**




CF **CONSTRUCTION FENCE**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**CONSTRUCTION FENCE INSTALLATION NOTES**

1. THE CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO EACH POST OR APPROVED EQUAL.

**CONSTRUCTION FENCE INSPECTION AND MAINTENANCE NOTES**

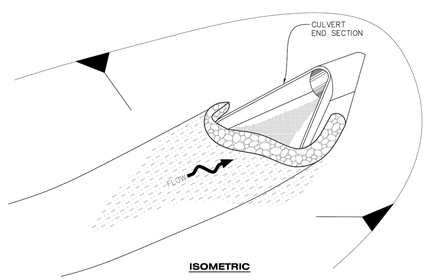
1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CONSTRUCTION FENCE AND MAKE ANY NECESSARY REPAIRS.
2. CONSTRUCTION FENCE SHALL BE REPAIRED WHEN THE FENCING MATERIAL FALLS OUT OF COMPLIANCE WITH THE NOTES AND DETAILS.



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**PLAN**




**ISOMETRIC**

CP **CULVERT PROTECTION (INLET)**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**CULVERT PROTECTION (INLET) INSTALLATION NOTES**

1. SEE PLAN VIEW FOR LOCATION(S) OF CULVERT PROTECTION (INLET).
2. ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
3. ROCK SOCK SHALL BE APPROXIMATELY 12" IN DIAMETER.
4. ROCK SOCK SHALL EXTEND ABOVE THE FLOW LINE ELEVATION ON BOTH SIDES OF THE CULVERT END SECTION.

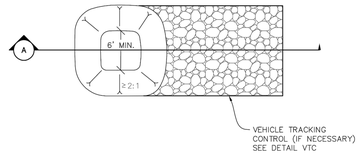
**CULVERT PROTECTION (INLET) INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CULVERT PROTECTION (INLET).
2. AT A MINIMUM, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE ROCK SOCK.
3. CULVERT PROTECTION (INLET) IS TO REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. WHEN THE CULVERT INLET PROTECTION IS REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CULVERT INLET PROTECTION TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

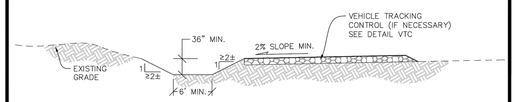


NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**NOTE:**
A VTC PAD IS NOT NECESSARY IF THERE IS ANOTHER VTC PAD IN BETWEEN THE CWA AND ROADWAY, PARKING LOT, DRIVE AISLES, ETC.




**PLAN VIEW**




**SECTION A**

CWA **CONCRETE WASHOUT AREA**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**CONCRETE WASHOUT AREA INSTALLATION NOTES**

1. CONCRETE WASHOUT AREAS SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT THE ACCESS POINT TO ALL CONCRETE WASHOUT AREAS WHEN NO OTHER VTC PAD EXISTS IN BETWEEN THE CWA AND THE ROADWAY.
3. IF GROUNDWATER IS ENCOUNTERED WHEN DIGGING THE PIT, A NEW LOCATION SHOULD BE SELECTED. IF NO OTHER LOCATION CAN BE FOUND, A ONE-PIECE IMPERVIOUS LINER SHALL BE REQUIRED ALONG THE BOTTOM AND SIDES OF THE SUBSURFACE PIT.

**CONCRETE WASHOUT AREA INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CONCRETE WASHOUT AREA.
2. CONCRETE WASHOUT MATERIALS SHALL BE REMOVED BEFORE ITS CAPACITY HAS BEEN REACHED.
3. CONCRETE WASHOUT AREAS SHALL BE ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE AND ASSOCIATED WASH WATER.
4. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE AS NECESSARY TO ENSURE ADEQUATE CAPACITY.
5. CONCRETE WASHOUT AREAS SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
6. WHEN CONCRETE WASHOUT AREAS ARE REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE EXCAVATIONS TO BE FILLED WITH SUITABLE COMPACTED BACKFILL AND TOPSOIL, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CONCRETE WASHOUT AREAS SHALL BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).



| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

| | |
|---|---|
| PROJECT NO: | 2243 |
| DRAWN/DESIGNED BY: | KA/JS |
| DATE: | 8/24/2023 |
| CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

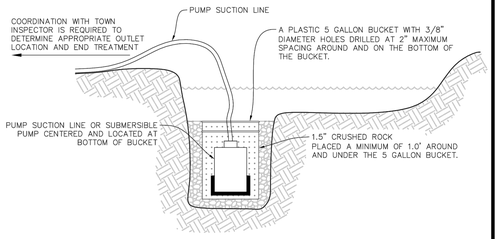
Know what's below. Call before you dig.

DRAWING NO.
12
SHEET NO. 12 OF 26

2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL01.dwg - plotted by: katazard ON 2023-08-24 @ 08:46 - ctb:rec_ncs.ctb - © 2022 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**TYPICAL DEWATERING SUMP**

**NOTE:**
IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE APPROPRIATE MEASURES TO PROTECT PUMPING EQUIPMENT AND MINIMIZE SEDIMENT. USE OF A PLASTIC 5 GALLON BUCKET IS SUGGESTED BUT NOT REQUIRED. THE CONTRACTOR SHALL NOT HOLD THE TOWN LIABLE FOR DAMAGE TO PUMPING EQUIPMENT REGARDLESS OF METHODS USED.

D **DEWATERING**

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — D — 1 OF 2 — Oct. 2013

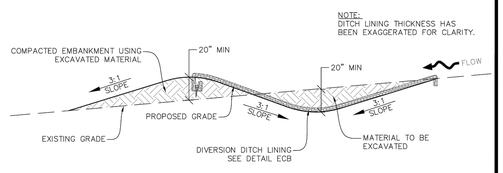
**DEWATERING INSTALLATION NOTES**

1. IT IS THE EROSION CONTROL SUPERVISOR'S RESPONSIBILITY TO ENSURE THAT ALL DEWATERING IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE).

**DEWATERING MAINTENANCE NOTES**

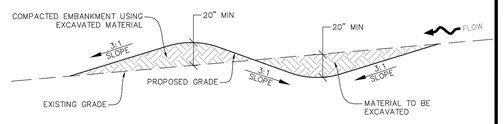
1. THE EROSION CONTROL SUPERVISOR SHALL INSPECT THE DEWATERING OPERATION TO ENSURE THAT THE DISCHARGE WATER IS DRAINING TO THE PROPER LOCATION(S) AND PERFORM ANY NECESSARY REPAIRS OR MAINTENANCE ON A FREQUENT BASIS.

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — D — 2 OF 2 — Oct. 2013




DIVISION DITCH GEOMETRY AND REQUIRED LINING MATERIAL SHALL BE OBTAINED FROM ASSOCIATED CBMP PLANS VIA THE DESIGN ENGINEER. IF THIS INFORMATION IS NOT PROVIDED ON THE CBMP PLANS, THE CONTRACTOR SHALL NOTIFY THE TOWN PRIOR TO CONSTRUCTION

**DIVERSION DITCH SECTION LINED CHANNEL**




**DIVERSION DITCH SECTION UNLINED CHANNEL**

DD **DIVERSION DITCH**

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — DD — 1 OF 2 — Oct. 2013

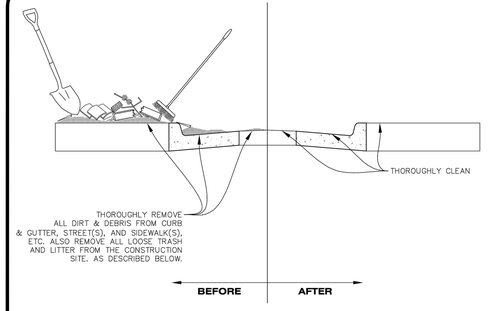
**DIVERSION DITCH INSTALLATION NOTES**

1. SEE THE PLAN VIEW FOR THE LOCATION(S) OF THE DIVERSION DITCHES.
2. A PLASTIC LINER, RIPRAP, OR EROSION CONTROL BLANKET MAY BE NECESSARY TO PROTECT THE DIVERSION DITCH. THE REQUIRED LINING MATERIAL SHALL BE OBTAINED FROM THE CBMP PLANS VIA THE DESIGN ENGINEER.
3. ALL MATERIAL EXCAVATED FROM THE DITCH MAY BE USED TO CONSTRUCT THE BERM ON THE DOWNHILL SIDE OF THE DITCH.
4. THE DIVERSION DITCH SHALL BE A MINIMUM OF 20" DEEP WITH APPROX. 3:1 SIDE SLOPES. THE ADJACENT BERM SHALL BE A MINIMUM OF 20" IN HEIGHT WITH APPROX. 3:1 SIDE SLOPES. ALL EMBANKMENTS SHALL BE FIRMLY COMPACTED.
5. THE DISCHARGE FROM THE DIVERSION DITCH SHALL BE DIRECTED TOWARDS AN APPROPRIATELY SIZED TEMPORARY SEDIMENT BASIN OR OTHER APPROVED AREA.

**DIVERSION DITCH INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE DIVERSION DITCH.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 (10") THE CREST HEIGHT.
3. DIVERSION DITCHES SHALL BE RE-GRADED FOLLOWING THE SIGNS OF MODERATE OR MORE SOIL EROSION OR ANY DAMAGE.
4. DIVERSION DITCHES ARE TO REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR. ALTERNATIVELY, THE DIVERSION DITCHES MAY BE REMOVED WHEN THE SITE'S TOPOGRAPHY CHANGES SUCH THAT SIGNIFICANT RUNOFF IS NO LONGER POSSIBLE. IN SOME INSTANCES, THE DIVERSION DITCHES MAY REMAIN IN PLACE PERMANENTLY.

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — DD — 2 OF 2 — Oct. 2013




**NOTE:**

1. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY. FURTHERMORE, ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.

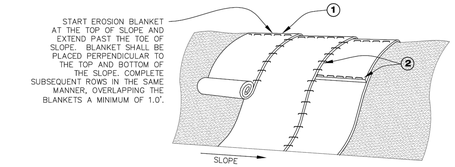
DTC **DEBRIS AND TRASH CONTROL**

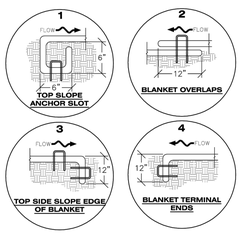
CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — DTC — 1 OF 2 — Oct. 2013

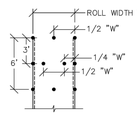
**DEBRIS CONTROL NOTES:**

1. A COMBINATION OF SURFACE SCRAPING AND SWEEPING MAY BE NECESSARY TO PROPERLY CLEAN THESE AREAS.
2. ALL CHEMICAL SPILLS AND/OR STAINS ON THE SITE SHALL BE CLEANED TO THE MAXIMUM EXTENT PRACTICABLE. IN SOME CASES IT MAY BE NECESSARY TO USE PRESSURIZED WATER AND A VAC-TRUCK.
3. ON-SITE PERSONNEL, DELIVERY DRIVERS, ETC., SHOULD BE EDUCATED ON THE NEED FOR CONTINUAL DEBRIS AND TRASH CONTROL.

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — DTC — 2 OF 2 — Oct. 2013



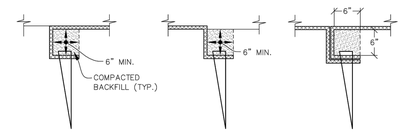

**STAPLE PATTERN**

NOTE: STAPLES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. IF MANUFACTURER INFO IS NOT AVAILABLE THEN ABOVE STAPLE PATTERN SHALL BE USED. WOODEN STAKES SHALL NOT BE USED FOR EROSION CONTROL BLANKET ON SLOPES.

NOTE:
WHEN NECESSARY, ALL SEEDING SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF EROSION CONTROL BLANKETS. PLEASE SEE DETAIL SMC FOR SEEDING, MULCHING, AND CRIMPING REQUIREMENTS.

ECB **EROSION CONTROL BLANKET (SLOPE)**

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — ECB — 1 OF 3 — Oct. 2013




**TOE OF SLOPE ANCHOR TRENCH**

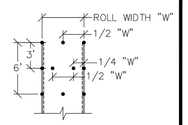
**TOP OF SLOPE ANCHOR TRENCH**

**JOINT ANCHOR TRENCH** USED TO JOIN BLANKETS TOGETHER (LONGITUDINAL)




SAW 2" x 4" LUMBER ON DIAGONAL

**WOOD STAKE DETAIL**
ALTERNATIVE WOOD STAKE PRODUCTS MAY BE USED WITH APPROVAL FROM THE TOWN.




**STAKING PATTERN**

NOTE: STAKES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. IF MANUFACTURER INFO IS NOT AVAILABLE THEN ABOVE STAKING PATTERN SHALL BE USED. STAPLES SHALL NOT BE USED FOR EROSION CONTROL BLANKET IN CHANNELS.

NOTES:
1. WOOD STAKES SHALL BE INSTALLED SUCH THAT ONLY 1" IS EXPOSED ABOVE THE GROUND.
2. WHEN NECESSARY, ALL SEEDING SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF EROSION CONTROL BLANKETS. PLEASE SEE DETAIL SMC FOR SEEDING, MULCHING, AND CRIMPING REQUIREMENTS.

ECB **EROSION CONTROL BLANKET (CHANNEL)**

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — ECB — 2 OF 3 — Oct. 2013

SEAL:

| NO. | BY | DATE | REVISION |
|---|---|---|---|

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

| | | | |
|---|---|---|---|
| PROJECT NO: | 2243 | DRAWN/DESIGNED BY: | KA/JS |
| DATE: | 8/24/2023 | CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

Know what's below. Call before you dig.

DRAWING NO. 13

SHEET NO. 13 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL01.dwg — plotted by: kolozard ON 2023-08-24 @ 08:47 — ctb:rec_rics.ctb — © 2022 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

## EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE THE PLAN VIEW FOR THE LOCATION(S) OF THE EROSION CONTROL BLANKETS.
2. EROSION CONTROL BLANKETS USED FOR CHANNEL PROTECTION SHALL BE PROPERLY SELECTED BY THE DESIGN ENGINEER BASED ON CURRENT AND FUTURE FLOW RATES WITHIN THE CHANNEL. BASED ON THESE CALCULATIONS, TURF REINFORCEMENT MATTING OR RIPRAP MAY BE NECESSARY IN LIEU OF EROSION CONTROL BLANKETS.
3. IMMEDIATELY PRIOR TO BLANKET INSTALLATION, SOIL SURFACE SHALL BE SMOOTH. AND FREE OF ANY GAPS, VOIDS, WEEDS, ROCKS, STICKS, OR OTHER MISCELLANEOUS DEBRIS.
4. EROSION CONTROL BLANKET SHALL THEN BE INSTALLED ACCORDING TO THE DETAILED DRAWINGS.
5. ANY DAMAGED OR REMAINING STAPLES OR STAKES SHALL BE REMOVED FROM THE SITE.
6. ALL EROSION CONTROL BLANKETS FOR SLOPE PROTECTION INSTALLED IN THE TOWN SHALL BE DOUBLE NET, STRAW OR EXCELSIOR.

| MANUFACTURER | PRODUCT NAME |
|---|---|
| NORTH AMERICAN GREEN | S150 |
| APPROVED EQUAL | APPROVED EQUAL |

7. IN MOST CASES, EROSION CONTROL BLANKETS FOR SLOPE PROTECTION ARE TO REMAIN IN PLACE PERMANENTLY.

## EROSION CONTROL BLANKET MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE EROSION CONTROL BLANKETS AND MAKE ANY NECESSARY REPAIRS.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | ECB 3 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

## AREA INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF AREA INLET PROTECTION.
2. THE AREA INLET PROTECTION SHOWN ON CBMP PLANS SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF NEW INLETS. AN INTERIM STYLE OF INLET PROTECTION MAY BE ALLOWED UNTIL THE INSTALLATION OF THE GUTTER AND/OR PAVEMENT.

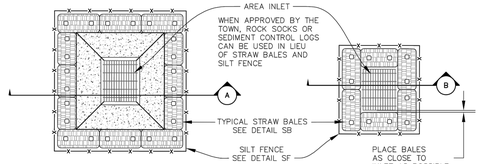
## AREA INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE AREA INLET PROTECTION.
2. AREA INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. WHEN THE AREA INLET PROTECTION IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE AREA INLET PROTECTION MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
4. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

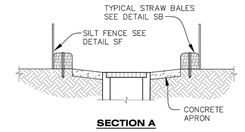
Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPA 1 OF 1 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

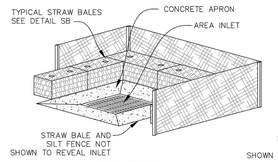
THIS METHOD OF INLET PROTECTION SHALL NOT BE USED ON INLETS RECEIVING SIGNIFICANT FLOWS, SUCH AS IN CERTAIN SWALES/CHANNELS OR HIGHWAY MEDIANS. INLET PROTECTION FOR AREA INLETS IN PAVEMENT (SEE DETAIL IPAP) SHALL BE USED IN THESE CONDITIONS.




**AREA INLET WITH CONCRETE APRON PLAN VIEW**

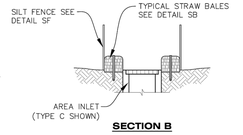



**SECTION A**

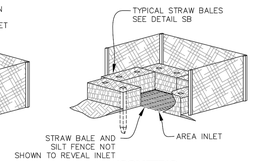



**ISOMETRIC**

**AREA INLET PLAN VIEW**




**SECTION B**




**ISOMETRIC**

IPAN **INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPAN 1 OF 1 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

## AREA INLET PROTECTION INSTALLATION NOTES

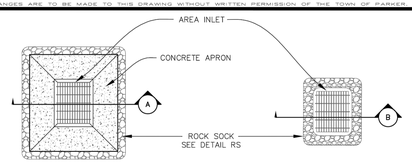
1. SEE PLAN VIEW FOR LOCATION(S) OF AREA INLET PROTECTION.
2. THE AREA INLET PROTECTION SHOWN ON CBMP PLANS SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF NEW INLETS. AN INTERIM STYLE OF INLET PROTECTION MAY BE ALLOWED UNTIL THE INSTALLATION OF THE GUTTER AND/OR PAVEMENT.

## AREA INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE AREA INLET PROTECTION.
2. AREA INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. WHEN THE AREA INLET PROTECTION IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE AREA INLET PROTECTION MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
4. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

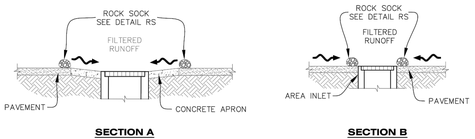
Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPA 1 OF 1 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

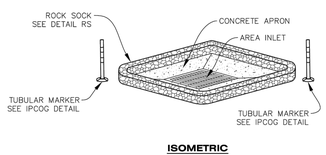



**AREA INLET WITH CONCRETE APRON PLAN VIEW**

**AREA INLET PLAN VIEW**




**SECTION A** **SECTION B**

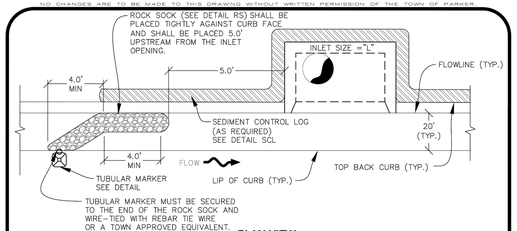



**ISOMETRIC**

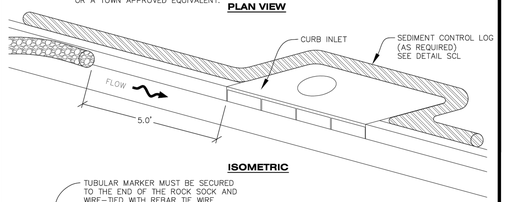
IPAP **INLET PROTECTION FOR AREA INLETS IN PAVEMENT**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPAP 1 OF 1 Oct. 2013

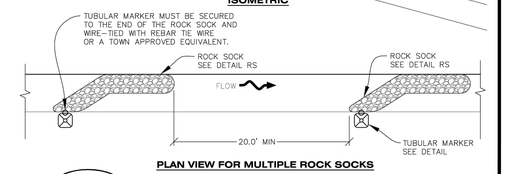
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**PLAN VIEW**




**ISOMETRIC**

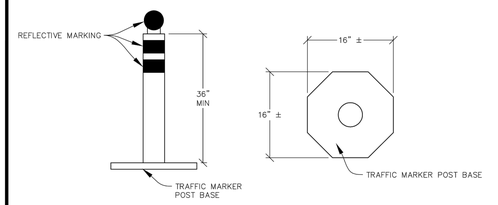



**PLAN VIEW FOR MULTIPLE ROCK SOCKS**

IPCOG **INLET PROTECTION, CURB ON-GRADE, TYPE R INLET**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOG 1 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**ELEVATION** **BASE**

**TUBULAR TRAFFIC MARKER DETAIL**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOG 2 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

## INLET PROTECTION, CURB ON-GRADE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ON-GRADE INLET PROTECTION.
2. CRUSHED ROCK SHALL BE 2.0"-3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK FOR ON-GRADE INLET PROTECTION SHALL BE ONE CONTINUOUS PIECE.
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL, SIZED TO KEEP ROCK FROM SPILLING OUT.
5. ROCK SOCK SHALL BE PLACED 5.0' UPHILL OF THE INLET OPENING.
6. TUBULAR MARKER SHALL BE A MINIMUM OF 3.0' HIGH WITH REFLECTIVE BANDS AND OCTAGON SHAPED BASES.
7. THE CURB INLET PROTECTION SHOWN ON CBMP PLAN SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE APPLICABLE INSTALLATION OF THE FIRST LIFT OF ASPHALT ON ROADWAYS DRAINING TO THE INLET.

## ON-GRADE INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ON-GRADE INLET PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
4. ON-GRADE INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOG 3 OF 3 Oct. 2013

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:

RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

PROJECT NO: 2243 | DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 | CHECKED BY: JS

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

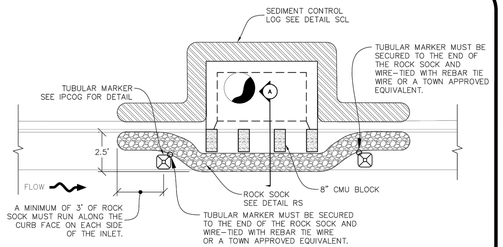
Know what's below. Call before you dig.

DRAWING NO. 14
SHEET NO. 14 OF 26

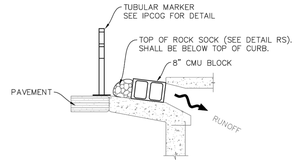
2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL01.dwg - plotted by: katazard ON 2023-08-24 @ 08:47 - ctb:rec_ncs.ctb - © 2022 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**PLAN VIEW**




**SECTION A**

IPCOS **INLET PROTECTION, CURB ON SUMP, TYPE R INLET**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOS 1 OF 2 Oct. 2013

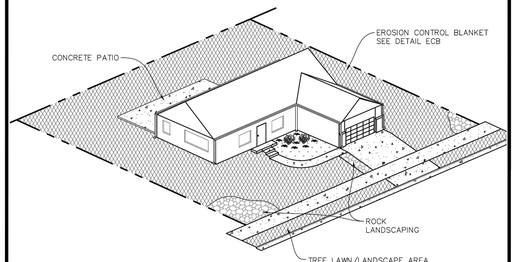
**CURB INLET PROTECTION INSTALLATION NOTES**

1. SEE CBMP PLAN FOR LOCATION(S) OF CURB INLET PROTECTION.
2. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK SHALL BE ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL SIZED TO KEEP ROCK FROM SPILLING OUT.
5. ROCK SOCK SHALL EXTEND 3.0' ALONG THE CURB BEYOND LOCATIONS WHERE IT RETURNS TO CONTACT CURB FACE.
6. TUBULAR TRAFFIC MARKERS SHALL BE A MINIMUM OF 36" IN HEIGHT WITH REFLECTIVE BANDS AND OCTAGON SHAPED BASES.
7. THE CURB INLET PROTECTION SHOWN ON CBMP PLAN SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF THE FIRST LIFT OF ASPHALT ON ROADWAYS DRAINING TO THE CURB INLET. CMU BLOCKS OR THE ROCK SOCK SHALL BE USED AS INTERIM PROTECTION UNTIL THE FIRST LIFT OF ASPHALT IS INSTALLED.

**CURB INLET PROTECTION INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CURB INLET PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
4. CURB INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | IPCOS 2 OF 2 Oct. 2013




LP **LOT PROTECTION**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LP 1 OF 2 Oct. 2013

**EROSION CONTROL BLANKET FOR LOT PROTECTION INSTALLATION NOTES**

1. ALL EROSION CONTROL BLANKETS FOR LOT PROTECTION INSTALLED IN THE TOWN SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

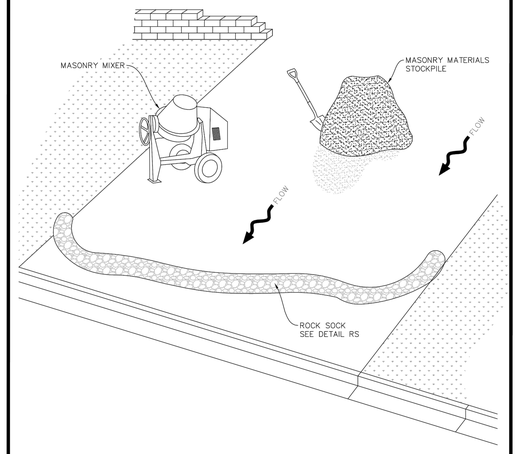
| MANUFACTURER | PRODUCT NAME |
|---|---|
| NORTH AMERICAN GREEN | S150 BN |
| APPROVED EQUAL | APPROVED EQUAL |

2. ALL EROSION CONTROL BLANKETS FOR LOT PROTECTION SHALL BE INSTALLED ACCORDING TO THE DETAIL DRAWINGS, WITH THE FOLLOWING ALLOWANCES AND ADDITIONS:
   - THE TOWN WILL ALLOW THE USE OF BIODEGRADABLE, EROSION CONTROL BLANKET–SPECIFIC STAPLES, IN LIEU OF TRADITIONAL METAL STAPLES.
   - ALL EROSION CONTROL BLANKET EDGES (SIDES AND ENDS) MUST OVERLAP THE ADJACENT BLANKET BY A MINIMUM OF 6–INCHES WITH THE UP–GRADIENT EDGES BEING PLACED ON TOP OF THE DOWN–GRADIENT EDGE OF THE ADJACENT BLANKET.
   - THE EDGES (SIDES AND ENDS) OF THE EROSION CONTROL BLANKETS DO NOT NEED TO BE TRENCHED INTO THE GROUND ASSUMING THE SITE CONDITIONS WILL NOT CAUSE EROSION BENEATH THE BLANKETS. THESE ASSUMPTIONS WILL BE THE RESPONSIBILITY OF THE EROSION CONTROL SUPERVISOR. ON OCCASION, THE TOWN'S INSPECTOR MAY REQUEST TRENCHING BASED UPON SITE CONDITIONS.
   - TOPSOIL PLACEMENT, SEEDING, AND MULCHING WILL NOT BE REQUIRED ON THE LOTS PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET.
3. ANY DAMAGED OR EXCESS STAPLES SHALL BE REMOVED FROM THE SITE FOLLOWING INSTALLATION.
4. THE EROSION CONTROL BLANKETING REQUIRED AS PART OF THE LOT PROTECTION (LP) REQUIREMENT MUST BE INSTALLED OVER ALL UN–LANDSCAPED AREAS WITHIN EACH RESIDENTIAL, MULTI–FAMILY, AND COMMERCIAL LOT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY / TEMPORARY CERTIFICATE OF OCCUPANCY.

**EROSION CONTROL BLANKET FOR LOT PROTECTION MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE EROSION CONTROL BLANKET FOR LOT PROTECTION.
2. EROSION CONTROL BLANKETS FOR LOT PROTECTION ARE INTENDED TO REMAIN IN PLACE AND MAINTAINED UNTIL LANDSCAPING IS INSTALLED.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | LP 2 OF 2 Oct. 2013




MWP **MASONRY WORK PROTECTION**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | MWP 1 OF 2 Oct. 2013

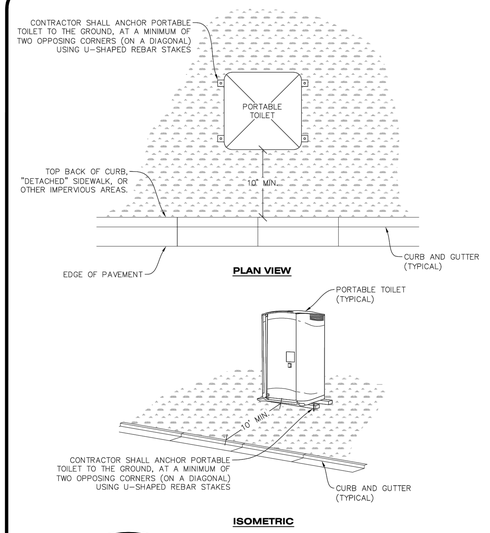
MASONRY WORK PROTECTION INSTALLATION NOTES

1. MASONRY WORK PROTECTION MAY NEED TO BE INSTALLED WHEN MASONRY WORK AND MIXING IS OCCURRING.
2. A ROCK SOCK SHALL BE INSTALLED IN A CRESCENT SHAPE ON THE DOWNHILL SIDE OF THE MASONRY WORK AND MIXER.
3. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
4. ROCK SOCK SHALL BE ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
5. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL, SIZED TO KEEP ROCK FROM SPILLING OUT.

MASONRY WORK PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE MASONRY WORK PROTECTION.
2. ALL CONCRETE WASTE SHALL BE REGULARLY CLEANED AND PLACED IN THE CONCRETE WASH OUT AREA.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | MWP 2 OF 2 Oct. 2013




PTP **PORTABLE TOILET PROTECTION**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | PTP 1 OF 2 Oct. 2013

**PORTABLE TOILET PROTECTION INSTALLATION NOTES**

1. PORTABLE TOILETS SHALL BE PLACED A MINIMUM OF 10.0' BEHIND ALL CURBS, SIDEWALKS, AND OTHER IMPERVIOUS AREAS.
2. ALL PORTABLE TOILETS MUST BE GROUPED TOGETHER.
3. PORTABLE TOILETS SHALL BE SECURELY ANCHORED TO THE GROUND USING U–SHAPED REBAR STAKES.
4. U–SHAPED REBAR STAKES SHALL BE POSITIONED ON AT LEAST 2 OPPOSING (DIGITAL) CORNERS.

**PORTABLE TOILET PROTECTION INSPECTION AND MAINTENANCE NOTES**

2. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE PORTABLE TOILET PROTECTION.
3. PORTABLE TOILETS SHALL BE SERVICED AT THE NECESSARY INTERVALS TO ELIMINATE THE POSSIBILITY OF OVERFLOW.
4. WHEN THE PORTABLE TOILETS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE TOILETS MAY NEED TO BE LANDSCAPED OR ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
5. PORTABLE TOILETS THAT ARE NOT CONSISTENTLY MAINTAINED IN ACCORDANCE WITH THESE REQUIREMENTS MAY NEED TO BE CLUSTERED TOGETHER, IN ONE CENTRALIZED LOCATION IN ORDER TO INCREASE COMPLIANCE AND REDUCE THE CHANCE OF A SPILL.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | PTP 2 OF 2 Oct. 2013

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

PROJECT NO: 2243 | DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 | CHECKED BY: JS

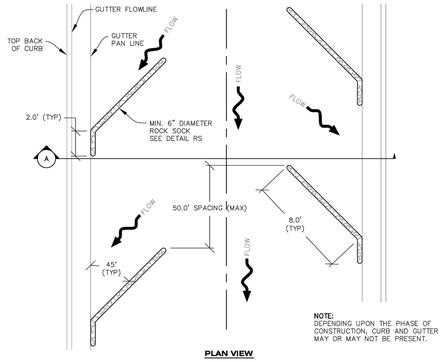
Know what's below. Call before you dig.

DRAWING NO. 15
SHEET NO. 15 OF 26

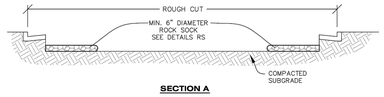
2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL01.dwg — plotted by: kalozard ON 2023-08-24 @ 08:47 — ctb:rec_rcs.ctb — © 2022 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**PLAN VIEW**




**SECTION A**

RCSC

## ROUGH CUT STREET CONTROL

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — RCSC 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**ROUGH CUT STREET CONTROL INSTALLATION NOTES**

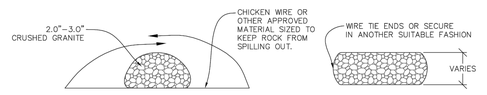
1. SEE CBMP PLAN FOR LOCATION(S) OF ROUGH CUT STREET CONTROL.
2. THE SPACING OF THE ROUGH CUT STREET CONTROL MAY BE DETERMINED BY THE DESIGN ENGINEER AND SHOWN ON THE CBMP PLAN.

**ROUGH CUT STREET CONTROL INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ROUGH CUT STREET CONTROL.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.
3. ROUGH CUT STREET CONTROL SHALL BE REPAIRED IMMEDIATELY FOLLOWING ANY SIGN OF WEAR OR ALTERATION OF THE ORIGINAL SHAPE AND DIMENSIONS.
4. ROUGH CUT STREET CONTROL SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL SUB-GRADE PREPARATION BEGINS FOR PAVING. AT THAT POINT, THE RCSC SHOULD BE REMOVED IN INCREMENTS BASED ON SUBGRADE PREPARATION.

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — RCSC 2 OF 2 Oct. 2013

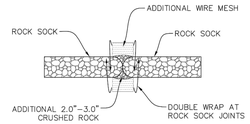
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



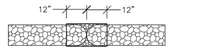

**CROSS SECTION**




**COMPLETED ROCK SOCK**




**JOINT PLAN VIEW**




ANY GAP AT JOINT SHALL BE FILLED WITH AN ADEQUATE AMOUNT OF 2.0"-3.0" CRUSHED ROCK AND DOUBLE WRAPPED WITH ADDITIONAL CHICKEN WIRE (OR APPROVED EQUAL) SECURED TO ENDS OF ROCK REINFORCED SOCK.

**JOINT ELEVATION**

RS

## ROCK SOCK

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — RS 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**ROCK SOCK INSTALLATION NOTES**

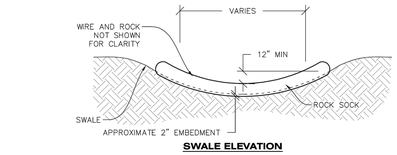
1. SEE CBMP PLAN FOR LOCATION(S) OF ROCK SOCK.
2. CRUSHED ROCK SHALL BE APPROXIMATELY 2.0"-3.0" GRANITE IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK SHALL BE APPROXIMATELY ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL SIZED TO KEEP ROCK FROM SPILLING OUT.
5. MINIMUM ROCK SOCK DIAMETER SHALL VARY BASED ON APPLICATION (7" MIN).
6. TUBULAR MARKERS MAY NEED TO BE USED IN CONJUNCTION WITH ROCKS SOCKS ANYTIME THE ROCK SOCK IS PLACED ON A ROADWAY, SIDEWALK, PARKING LOT OR OTHER LOCATION SUSCEPTIBLE TO VEHICLE OR PEDESTRIAN TRAFFIC. TUBULAR MARKERS SHALL CONFORM TO THE TUBULAR MARKER DETAIL.

**ROCK SOCK INSPECTION AND MAINTENANCE NOTES**

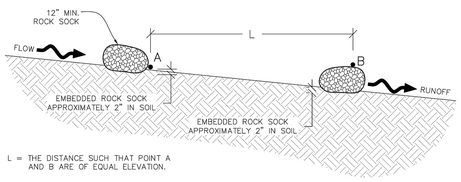
1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ROCK SOCKS.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
3. ROCK SOCKS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — RS 2 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**SWALE ELEVATION**



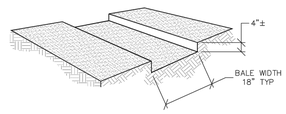

**SWALE SPACING**

RSS

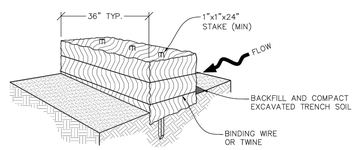
## ROCK SOCK IN SWALE

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — RSS 1 OF 1 Oct. 2013

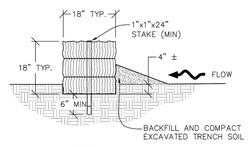
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**TRENCH EXCAVATION**




**STRAW BALE INSTALLATION**




**SECTION**

SB

## STRAW BALE

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — SB 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**STRAW BALE INSTALLATION NOTES**

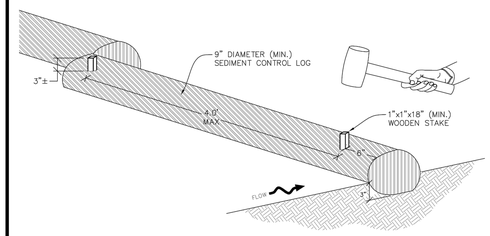
1. SEE CBMP PLAN FOR LOCATION(S) OF STRAW BALES.
2. TYPICAL STRAW BALES SHALL BE APPROXIMATELY 36"X18"X18".
3. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE A MINIMUM OF 1"X1"X24".
4. WOODEN STAKES SHALL BE PLACED APPROXIMATELY 6" INTO THE GROUND.
5. STRAW BALES SHALL BE SPACED AND POSITIONED ACCORDING TO DETAILS.

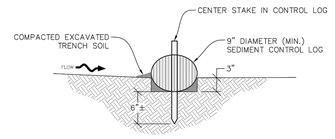
**STRAW BALE INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE STRAW BALES.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE STRAW BALE.
3. STRAW BALES MAY NEED TO BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN, OR OTHERWISE DAMAGED.
4. STRAW BALES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN INSPECTOR.
5. WHEN THE STRAW BALES ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE STRAW BALES MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — SB 2 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**SECTION A**

SCL

## SEDIMENT CONTROL LOG

CBMP — CONSTRUCTION BEST MANAGEMENT PRACTICES — SCL 1 OF 3 Oct. 2013

SEAL:

| NO. | BY | DATE | REVISION |
|---|---|---|---|
| | | | |

RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

PROJECT NO: 2243 DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 CHECKED BY: JS

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

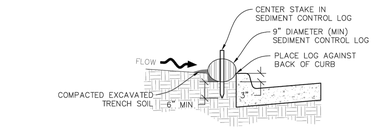
Know what's below. Call before you dig.

DRAWING NO. 16
SHEET NO. 16 OF 26

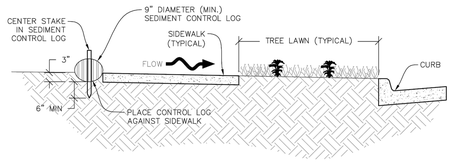
2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL02.dwg — plotted by: kalozard ON 2023-08-24 @ 08:47 — ctb:rec_rics.ctb — © 2023 Rick Engineering Company

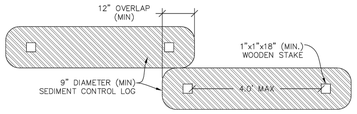
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**SEDIMENT CONTROL LOG AT BACK OF CURB**




**SEDIMENT CONTROL LOG AT SIDEWALK WITH TREE LAWN**




**SEDIMENT CONTROL LOG JOINTS**

SCL **SEDIMENT CONTROL LOG**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SCL 2 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**SEDIMENT CONTROL LOG INSTALLATION NOTES**

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT CONTROL LOGS.
2. ALL SEDIMENT CONTROL LOGS SHALL BE INSTALLED FREE OF DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. SEDIMENT CONTROL LOGS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO AN IMPERVIOUS SURFACE SUCH AS A CURB HEAD, SIDEWALK, INLET LID, ETC. NO GAPS SHALL EXIST BETWEEN THE SEDIMENT CONTROL LOG AND THE IMPERVIOUS SURFACE.
4. A UNIFORM 3" DEEP ANCHOR TRENCH (APPROX.) IN THE SHAPE OF A HALF-SPHERE SHALL BE EXCAVATED USING A TRENCHER, SPADE-SHAPED SHOVEL, OR PICK. THE ANCHOR TRENCH SHALL BE SIZED TO ALLOW FOR THE SEDIMENT CONTROL LOG TO SEAT TIGHTLY AGAINST THE ANCHOR TRENCH.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH AND PROPERLY COMPACTED.
6. ANCHOR TRENCH SHALL BE RELATIVELY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT.
7. ALL SEDIMENT CONTROL LOGS SHALL BE PLACED 3" (APPROX.) BELOW THE GROUND AND PULLED TIGHT ON BOTH ENDS TO REMOVE ANY CURVES OR SNAGS.
8. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS RELATIVELY FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED AGAINST THE GROUND AND SEDIMENT CONTROL LOG USING A SHOVEL, OR SIMILAR DEVICE.
9. SEDIMENT CONTROL LOG STAKES SHALL BE MADE OF WOOD AND SECURELY ANCHOR THE SCL IN PLACE.
10. STAKES SHALL BE PLACED ON 4.0' CENTERS AND EMBEDDED APPROXIMATELY 6" INTO THE GROUND. STAKES THAT ARE BROKEN PRIOR TO OR DURING INSTALLATION SHALL BE REPLACED.
11. SEDIMENT CONTROL LOGS SHALL OVERLAP A MINIMUM OF 12". THE OVERLAPPING SHALL OCCUR ON THE UP-GRADIENT SIDE OF THE LOGS.
12. SEDIMENT CONTROL LOGS SHALL BE STAKED WITHIN 6" FROM EACH END.
13. SEDIMENT CONTROL LOGS THAT ARE INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN THE CONCRETE AND THE LOG. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.

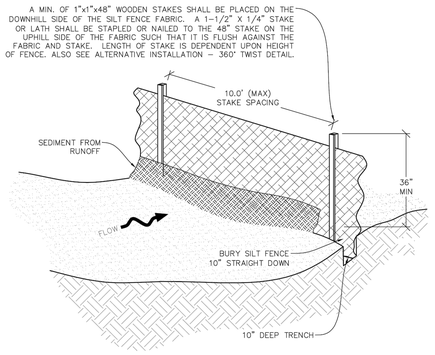
**SEDIMENT CONTROL LOG INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEDIMENT CONTROL LOGS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF EXPOSED LOG.
3. SEDIMENT CONTROL LOGS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SEDIMENT CONTROL LOGS SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR OR DAMAGE THAT WOULD PREVENT THE SCL FROM FUNCTIONING AS DESIGNED.
5. WHEN THE SEDIMENT CONTROL LOGS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SEDIMENT CONTROL LOGS MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SCL 3 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

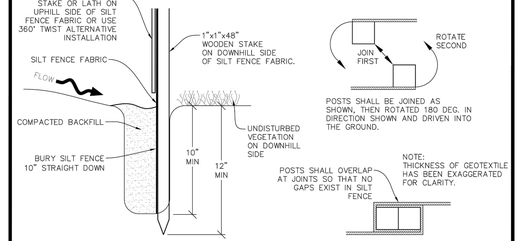
A MIN. OF 1"x1"x48" WOODEN STAKES SHALL BE PLACED ON THE DOWNHILL SIDE OF THE SILT FENCE FABRIC. A 1-1/2" X 1/4" STAKE OR LATH SHALL BE STAPLED OR NAILED TO THE 48" STAKE ON THE UPHILL SIDE OF THE FABRIC SUCH THAT IT IS FLUSH AGAINST THE FABRIC AND STAKE. LENGTH OF STAKE IS DEPENDENT UPON HEIGHT OF FENCE. ALSO SEE ALTERNATIVE INSTALLATION - 360° TWIST DETAIL.




—x—x— SF **SILT FENCE**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 1 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**INSTALLATION DETAIL** **JOINT SECTIONS**




**STEP 1** **STEP 2**

**ALTERNATIVE INSTALLATION - 360° TWIST**

—x—x— SF **SILT FENCE**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 2 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**SILT FENCE INSTALLATION NOTES**

1. SEE CBMP PLAN FOR LOCATION(S) OF SILT FENCE.
2. ALL SILT FENCE SHALL BE INSTALLED IN GOOD CONDITION AND FREE OF ANY DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. A UNIFORM 10" DEEP ANCHOR TRENCH SHALL BE EXCAVATED USING A TRENCHER.
4. A 10" DEEP ANCHOR SLIT SHALL BE FORMED IF USING A STATIC SLICING METHOD.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH.
6. ANCHOR TRENCH SHALL BE GENERALLY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT OF THE SILT FENCE.
7. THE ANCHOR TRENCH SHALL BE THOROUGHLY BACKFILLED WITH SOIL THAT IS GENERALLY FREE OF ROCKS AND DEBRIS.
8. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UP-GRADIENT SIDE OF THE SILT FENCE.
9. STAKES SHALL BE POSITIONED ON THE DOWNHILL SIDE OF THE SILT FENCE FABRIC AND PLACED ON 10.0' CENTERS OR LESS. STAKES SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE GROUND. A WOODEN LATH SHALL BE ATTACHED TO THE OPPOSING (UPHILL) SIDE OF THE STAKE FOR ADDED STRENGTH AND SUPPORT. THE LATH SHALL HAVE THE FOLLOWING DIMENSIONS: 1"x¼"x24".
10. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD NOT BE SIGNIFICANT SAGGING ALONG ANY PORTION OF THE SILT FENCE AFTER IT HAS BEEN ANCHORED TO THE STAKES.
11. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES AND LATHS USING STAPLES OR NAILS OF AN APPROXIMATE LENGTH. ENOUGH STAPLES AND NAILS SHOULD BE PLACED ALONG THE LATH TO ENSURE PROPER ATTACHMENT.
12. SILT FENCE FABRIC SHALL MEET THE FOLLOWING MANDATORY REQUIREMENTS:

| PROPERTIES | TEST METHOD | MANDATORY REQUIREMENTS |
|---|---|---|
| GRAB TENSILE STRENGTH | ASTM D 4632 | ≥ 124 LBS |
| MULLEN BURST STRENGTH | ASTM D 3786 | ≥ 300 PSI |
| PUNCTURE STRENGTH | ASTM D 4833 | ≥ 60 LBS |
| TRAPEZOID TEAR STRENGTH | ASTM D 4533 | ≥ 65 LBS |
| UV RESISTANCE | ASTM D 4355 | ≥ 80% AT 500 HOURS OF UV EXPOSURE |
| FLOW RATE | ASTM D 4491 | ≥ 10 GAL/MIN/FT2 |

13. AN ORIGINAL PRODUCT SPECIFICATION SHEET FROM THE SILT FENCE MANUFACTURER SHALL BE MADE AVAILABLE AT THE REQUEST OF THE TOWN'S INSPECTOR. THE PRODUCT SPECIFICATION SHEET SHALL PROVIDE THE RESULTS FOR THE TEST METHODS ABOVE.
14. SILT FENCE JOINTS SHALL BE CONNECTED ACCORDING TO THE ATTACHED DRAWING.
15. SILT FENCE THAT IS INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN CONCRETE AND THE SILT FENCE. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 3 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**SILT FENCE INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SILT FENCE.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED REGULARLY.
3. SILT FENCE SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SILT FENCE SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR AND/OR DAMAGE.
5. WHEN THE SILT FENCE IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SILT FENCE MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SF 4 OF 4 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**SEEDING AND MULCHING SHALL BE PERFORMED ACCORDING TO THE ACCOMPANYING DETAIL(S) AND TEXT. NO EXCEPTIONS SHALL BE MADE**

1. SEE PLAN VIEW FOR:
   - LOCATION(S) OF SEEDING AND MULCHING
   - TYPE OF SEED MIX
2. SEED MIXES MAY CONFORM TO THE TABLE PROVIDED WITH THE SMC NOTES OR ALTERNATIVES MAY BE ALLOWED WITH PRIOR PERMISSION BY THE TOWN'S INSPECTOR.
3. SEEDING MAY BE PERFORMED YEAR ROUND ASSUMING THE SOIL IS NOT FROZEN. SEEDING DURING TIMES OF EXTREME TEMPERATURES SHOULD BE AVOIDED IF POSSIBLE.
4. AT THE BEGINNING OF THE LAND DISTURBANCE ACTIVITIES, IT IS HIGHLY RECOMMENDED THAT AN APPROPRIATE AMOUNT OF NATIVE TOPSOIL BE STRIPPED FROM THE SITE AND STOCKPILED. ALL AREAS, PRIOR TO PERMANENT SEEDING AND MULCHING, WILL LIKELY NEED TO BE COVERED WITH AN APPROPRIATE LAYER OF TOPSOIL. THIS REQUIREMENT APPLIES TO ALL AREAS WHERE NATIVE SEEDING IS SPECIFIED ON THE CBMP PLAN AND/OR LANDSCAPING PLANS.
5. IT IS STRONGLY RECOMMENDED THAT SAMPLES FROM THE STRIPPED TOPSOIL BE PROPERLY COLLECTED AND TESTED BY A QUALIFIED LABORATORY TO ENSURE ADEQUATE NUTRIENT CONTENT PRIOR TO SEEDING AND MULCHING. IF IT IS DISCOVERED THAT THE TOPSOIL IS VOID OF THE NUTRIENTS NECESSARY TO SUCCESSFULLY ESTABLISH THE REQUIRED VEGETATION, THEN THE APPROPRIATE AMENDMENTS SHALL BE ADDED.
6. ALL AREAS TO BE SEEDED AND MULCHED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING DETAILS AND NOTES. SURFACE ROUGHENING SHALL OCCUR AFTER PLACEMENT OF THE TOPSOIL.
7. WHEN INSTALLED WITH A DRILL SEEDER, SEED SHALL BE PLACED AT A DEPTH OF ¼ – ½ INCH. ROW SPACING SHALL BE NO MORE THAN 6-INCHES.
8. ALL AREAS INCAPABLE OF BEING DRILL SEEDED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING NOTES OR EFFECTIVELY ROUGHENED USING A HARROW OR OTHER SUCH IMPLEMENT. ALL AREAS SHALL BE UNIFORMLY HAND BROADCASTED WITH THE PROPER SEED MIX APPLIED AT TWO TIMES THE DRILL SEEDED RATE. BROADCASTED AREAS SHALL THEN BE RE-HARROWED OR RE-RAKED USING A HARD-TIPPED RAKE TO ENSURE THAT SEEDS ARE BURIED TO AN APPROXIMATE DEPTH OF ¼ – ½ INCH.
9. AFTER SEEDING HAS BEEN COMPLETED, MULCH SHALL BE UNIFORMLY APPLIED AT A RATE OF 2 TONS/ACRE (4,000 LBS/ACRE). MULCH SHALL BE MECHANICALLY CRIMPED TO A DEPTH OF 2 INCHES USING A CRIMPER. MULCH SHALL BE HAND CRIMPED AND COVERED WITH A TACKIFIER IN AREAS WHERE MECHANICAL CRIMPING IS NOT POSSIBLE. WHEN SOILS PERMIT, ALL MULCH SHALL BE CRIMPED SUCH THAT THE INDIVIDUAL PIECES OF STRAW OR HAY FORM EXAGGERATED V-SHAPES PROTRUDING OUT OF THE GROUND SEVERAL INCHES.
10. IN CERTAIN INSTANCES, IT MAY BE NECESSARY TO APPLY A TACKIFIER IN ORDER TO HELP WITH STRAW DISPLACEMENT. TACKIFIER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SMC 1 OF 3 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**SEEDING AND MULCHING MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEEDING AND MULCHING.
2. ANY SEEDED AND MULCHED AREAS THAT BECOME DAMAGED SHALL BE REPAIRED WITHIN THE TIME FRAME SPECIFIED BY THE TOWN'S INSPECTOR.

**WEED MANAGEMENT**

1. ALL HERBICIDES SHALL BE APPLIED BY COMMERCIAL PESTICIDE APPLICATORS LICENSED BY THE COLORADO DEPARTMENT OF AGRICULTURE AS QUALIFIED APPLICATORS. THE CONTRACTOR SHALL FURNISH DOCUMENTATION OF SUCH LICENSING PRIOR TO HERBICIDE APPLICATION.
2. HERBICIDE APPLICATION METHOD SHALL BE SUCH THAT PLANT GROWTH OUTSIDE THE DESIGNATED TREATMENT AREAS WILL NOT BE DAMAGED. ALL DAMAGE CAUSED BY IMPROPER HERBICIDE APPLICATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. HERBICIDES SHALL BE APPLIED DURING THE APPROPRIATE SEASONS, WHEN TARGET PLANTS ARE ACTIVELY GROWING.
4. AFTER THE GRASS SEED IS ESTABLISHED, APPROPRIATE HERBICIDES SHALL BE APPLIED TO CONTROL THE REMAINING WEEDS TO ENSURE A TIMELY RETURN OF THE FINANCIAL SECURITY. PROPER TIMING OF HERBICIDE APPLICATIONS ARE NECESSARY TO ACHIEVE THE SUPPRESSION OF WEED SEED PRODUCTION AND DEPLETION OF WEED ROOT MASS. ULTIMATELY, THE HERBICIDES USED SHALL BE BASED UPON THE TARGET WEEDS.
5. HERBICIDE TREATMENTS SHALL CONTINUE AT AN APPROPRIATE RATE UNTIL IT IS EVIDENT THAT WEED GROWTH PRESENCE AND GROWTH IS MINIMAL AND MAY BE CONTROLLED THROUGH MOWING AND/OR ANNUAL HERBICIDE TREATMENT.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | SMC 2 OF 3 Oct. 2013

SEAL:

| NO. | BY | DATE | REVISION |
|---|---|---|---|

RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

| | |
|---|---|
| 2243 | DRAWN/DESIGNED BY: KA/JS |
| 8/24/2023 | CHECKED BY: JS |
| PROJECT NO: | |
| DATE: | |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

**DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4**

DOUGLAS COUNTY, COLORADO

**CBMP DETAILS**

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

DRAWING NO. 17

SHEET NO. 17 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL02.dwg - plotted by: katazard ON 2023-08-24 @ 08:47 - ctb:rec_ncs.ctb - ©2023 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**TOWN OF PARKER, SEED MIX 1**
20% CANADA WILDRYE
15% CRESTED WHEATGRASS
15% SLENDER WHEATGRASS
10% ANNUAL RYEGRASS
10% SHEEP FESCUE
10% BIG BLUESTEM
10% SIDEOATS GRAMA
5% CANADA BLUEGRASS
5% BLUE GRAMA

**SEEDING RATE:**
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

**TOWN OF PARKER, SEED MIX 2**
22% SLENDER WHEATGRASS
18% SODAR STREAMBANK WHEATGRASS
13% ARIZONA FESCUE
13% BLUE GRAMA
12% BUFFALOGRASS
12% BARLEY OR OATS
5% SPIKE MUHLY
5% INDIAN RICEGRASS

**SEEDING RATE:**
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

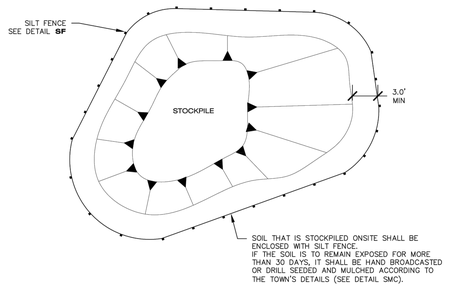
**TOWN OF PARKER, SEED MIX 3 (LOW-GROWTH MIX)**
25% EPHRAIM CRESTED WHEATGRASS
23% SHEEP FESCUE
18% PERENNIAL RYEGRASS
13% CANADA BLUEGRASS
12% BARLEY OR OATS
9% BLUE FESCUE

**SEEDING RATE:**
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

**SEED MIX 4:**
OTHER SEED MIXES APPROVED BY THE TOWN OF PARKER



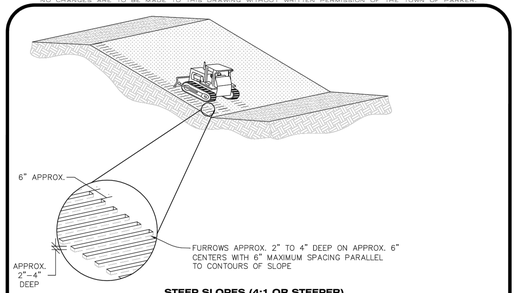
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.



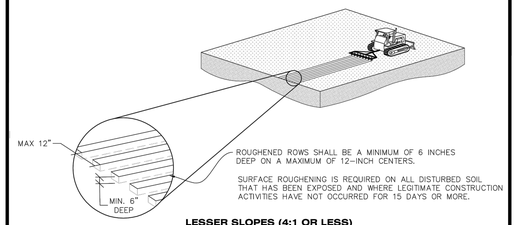

SP **STOCKPILE PROTECTION**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**STEEP SLOPES (4:1 OR STEEPER)**
(SLOPES STEEPER THEN 4:1 MAY BE SURFACE ROUGHENED IF THE CONTRACTOR FEELS THAT IT IS SAFE TO DO SO)




**LESSER SLOPES (4:1 OR LESS)**

SR **SURFACE ROUGHING**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**SURFACE ROUGHENING INSTALLATION NOTES**

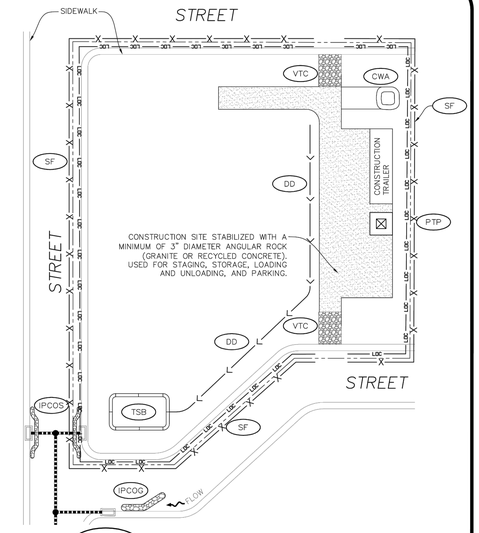
1. SEE CBMP PLAN FOR LOCATION(S) OF SURFACE ROUGHENING.
2. DISTURBED AREAS THAT REMAIN INACTIVE FOR 15 DAYS OR MORE MUST RECEIVE SURFACE ROUGHENING OR ANOTHER APPROVED BMP FROM THE SDEOM. DETERMINATION OF JOB SITE INACTIVITY IS AT THE DISCRETION OF THE TOWN'S INSPECTOR.
3. FOR STEEP SLOPES (3:1 OR STEEPER), IT IS ACCEPTABLE TO "TRACK" THE SLOPES, ACCORDING TO THE CBMP DETAILS.
4. SCHEDULES FOR REQUIRING STABILIZATION MAY BE MODIFIED BY THE PERMITTEE TO ALLOW FOR SPECIAL CONSIDERATIONS SUCH AS STABILIZING ACCESS AREAS AND AREAS IN CLOSE PROXIMITY TO CONTINUING CONSTRUCTION.

**SURFACE ROUGHENING INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL PROACTIVELY INSPECT THE SURFACE ROUGHENING.



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




SSA **STABILIZED STAGING AREA**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**STABILIZED STAGING AREA INSTALLATION NOTES**

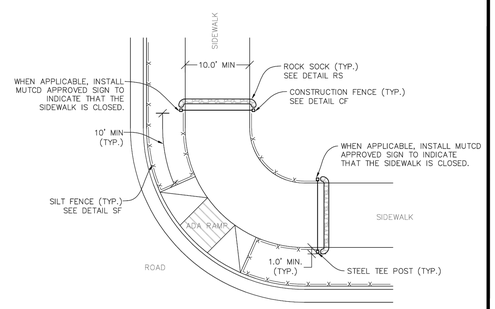
1. SEE CBMP PLAN FOR LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH TOWN APPROVAL.
2. STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN PARKING, STORAGE, AND LOADING OPERATIONS.
3. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" DIAMETER OF ANGULAR ROCK (GRANITE OR RECYCLED CONCRETE).
4. SSA FOR SMALLER SITES MAY NOT BE PRACTICAL. IN THESE AND SIMILAR SITUATIONS, VARIANCES MAY BE PERMITTED BY THE TOWN.

**STABILIZED STAGING AREA INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE STAGING AREA.
2. STABILIZED STAGING AREA SHALL BE ENLARGED AS NECESSARY TO CONTAIN PARKING, STORAGE, LOADING, AND UNLOADING.



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

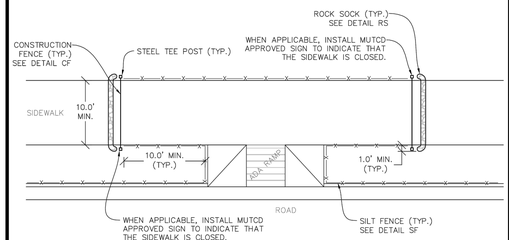



**NOTE:**
SEDIMENT CONTROL LOGS (SCL) MAY BE USED IN LIEU OF SILT FENCE (SF) WITH PRIOR APPROVAL FROM TOWN.

STP **SIDEWALK TRANSITION PROTECTION (AT INTERSECTION)**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**NOTE:**
SEDIMENT CONTROL LOGS (SCL) MAY BE USED IN LIEU OF SILT FENCE (SF) WITH PRIOR APPROVAL FROM TOWN.

STP **SIDEWALK TRANSITION PROTECTION (ALONG STRAIGHT ROADWAY)**



SEAL:

| NO. | BY | DATE | REVISION |
|---|---|---|---|

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

| | | | |
|---|---|---|---|
| PROJECT NO: | 2243 | DRAWN/DESIGNED BY: | KA/JS |
| DATE: | 8/24/2023 | CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

Know what's below. Call before you dig.

DRAWING NO.
18
SHEET NO. 18 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL02.dwg — plotted by: kalozard ON 2023-08-24 @ 08:47 — ctb:rec_ncs.ctb — © 2023 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

## SIDEWALK TRANSITION PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF SIDEWALK TRANSITION PROTECTION.
2. ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
3. SILT FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL SF).
4. CONSTRUCTION FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL CF).
5. SEDIMENT CONTROL LOGS MAY BE USED IS LIEU OF SILT FENCE WITH PRIOR APPROVAL FROM THE TOWN.

## SIDEWALK TRANSITION PROTECTION INSPECTION & MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SIDEWALK TRANSITION INSPECTION.

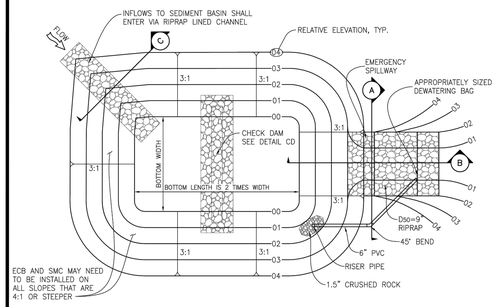


To allow for a proper and timely establishment of native grasses, temporary irrigation is required over all areas where permanent native seeding is proposed. This includes, but is not limited to: detention ponds, drainageways, park and trail areas, general open space, etc. **In addition to the landscape plans, please show the temporary irrigation symbol (TI) on the CBMP Plan over all areas where permanent native seeding is proposed.** As a reminder, when working within Parker Water and Sanitation District's (PWSD) jurisdiction, the following is required:

- Temporary irrigation for native seed must be supplied by a fire hydrant hook-up. Use of proposed/existing landscape irrigation taps is not allowed. Please indicate on the irrigation plans fire hydrants that are to be used for the temporary irrigation mainline and provide a detail for the connection. This detail should show the hydrant, PRV, PWSD water meter, a 2" backflow assembly, a 2" x 2" cam lock for fire department quick disconnect and a support system for all components
- The following note must be shown on the Irrigation plan set "Temporary irrigation for establishment of native vegetation must be installed above ground, and removed immediately after establishment is complete, or in no case, any longer than one growing season." PWSD may allow temporary irrigation to continue for one additional growing season with prior approval.
- The following note must be shown on the Irrigation plan set "All temporary irrigation components including but not limited to mainlines, laterals, valves, heads and quick couplers must be installed above ground."
- All temporary irrigation components including but not limited to mainlines, laterals, valves, heads and quick couplers must be clearly labeled on the plans.
- Provide detail drawings for all above ground components including but not limited to mainlines, laterals, valves, heads and quick couplers.

If the project is outside of PWSD's jurisdiction, check with the applicable water provider regarding their specific requirements for temporary irrigation.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

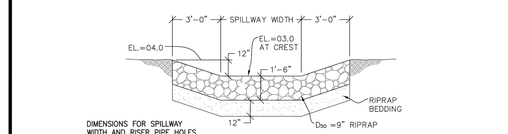



**PLAN VIEW**

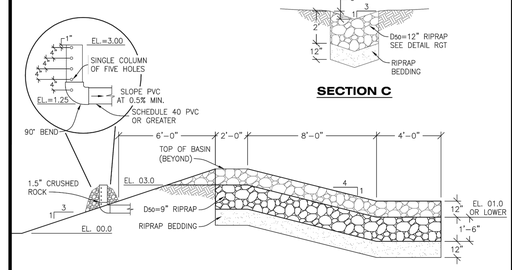
TSB **TEMPORARY SEDIMENT BASIN**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**SECTION A**




**SECTION C**

**SECTION B**

TSB **TEMPORARY SEDIMENT BASIN**



## TEMPORARY SEDIMENT BASIN INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT BASIN(S).
2. THE TEMPORARY SEDIMENT BASIN(S) SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY OTHER GRADING ACTIVITIES.
3. THE EXACT DIMENSIONS AND DETAILS OF THE TEMPORARY SEDIMENT BASIN SHALL BE DETERMINED BY THE DESIGN ENGINEER, IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3" AND SHALL HAVE A MINIMUM OF 15% BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% DENSITY, AND WITHIN +/– 2% OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698.
6. AN APPROPRIATELY SIZED DEWATERING BAG SHALL BE SECURED TO THE END OF THE DISCHARGE PIPE. THE DEWATERING BAG SHALL BE REPLACED ONCE SEDIMENT ACCUMULATION REACHES 50%.

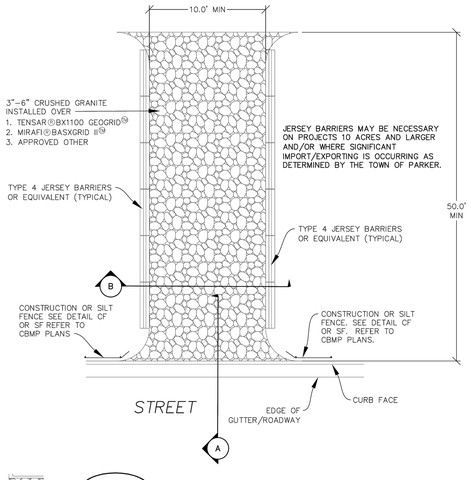
## TEMPORARY SEDIMENT BASIN INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE TEMPORARY SEDIMENT BASIN.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT REACHES A DEPTH OF 2.0', OR WITHIN 2.0' OF THE SPILLWAY CREST, OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. SEDIMENT BASINS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL UPSTREAM VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR.



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

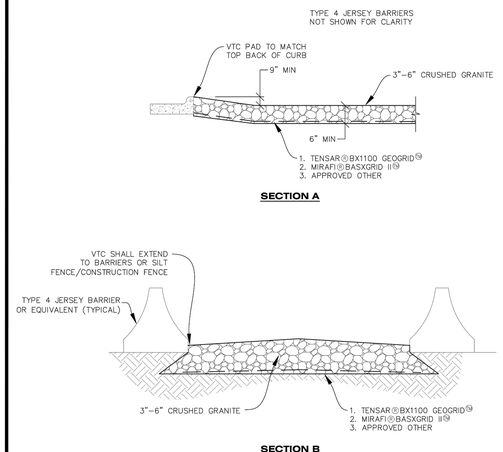
ON SITES LESS THAN 10 ACRES AND WHERE SIGNIFICANT SOIL IMPORTING/EXPORTING IS NOT OCCURRING, CONSTRUCTION FENCE (CF) OR SILT FENCE (SF) MAY BE USED IN LIEU OF THE TYPE 4 JERSEY BARRIERS WITH PRIOR APPROVAL FROM THE TOWN'S INSPECTOR.




VTC **VEHICLE TRACKING CONTROL**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**SECTION A**




**SECTION B**

VTC **VEHICLE TRACKING CONTROL**



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

## VEHICLE TRACKING CONTROL PAD INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF VEHICLE TRACKING CONTROL PAD(S).
2. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED. SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.
3. THE VEHICLE TRACKING CONTROL PAD(S) INDICATED ON CBMP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
4. VEHICLE TRACKING CONTROL PADS SHALL BE A MINIMUM OF 50–FEET LONG AND 10–FEET WIDE, UNLESS A VARIANCE HAS BEEN GRANTED BY THE TOWN'S INSPECTOR.
5. A BIAXIAL GEO–GRID SHALL BE PLACED UNDER THE VEHICLE TRACKING CONTROL PAD PRIOR TO THE PLACEMENT OF ROCK. THE AREA SHALL BE FREE FROM ANY VOIDS, ROCKS AND DEBRIS. THE BIAXIAL GEO–GRID SHALL BE TENSAR BX1100, MIRAFI BASXGRID II, OR AN APPROVED EQUAL. GEO–GRID SHALL BE PLACED, AND APPROPRIATELY OVERLAPPED IF NECESSARY, TO COVER THE ENTIRE LENGTH AND WIDTH OF THE VEHICLE TRACKING CONTROL PAD.
6. CRUSHED ROCK SHALL BE A MINIMUM OF 3–6" GRANITE WITH A FRACTURED FACE (ALL SIDES).

## VEHICLE TRACKING CONTROL PAD INSTALLATION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE VEHICLE TRACKING CONTROL PAD.
2. WHEN THE VEHICLE TRACKING CONTROL PAD IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE VEHICLE TRACKING CONTROL PAD SHALL BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
3. THE VEHICLE TRACKING CONTROL PAD SHALL BE MAINTAINED SUCH THAT THE ROCK REMAINS RELATIVELY LOOSE AND ACCUMULATED MUD AND OTHER DEBRIS IS REGULARLY REMOVED.



SEAL:

| NO. | BY | DATE | REVISION |
|---|---|---|---|
| | | | |

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Las Vegas - Denver - Phoenix
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

| | | | |
|---|---|---|---|
| PROJECT NO: | 2243 | DRAWN/DESIGNED BY: | KA/JS |
| DATE: | 8/24/2023 | CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

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

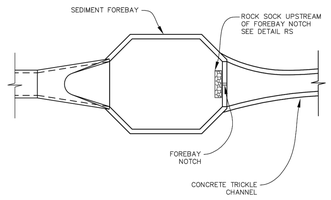
DRAWING NO. 19

SHEET NO. 19 OF 26

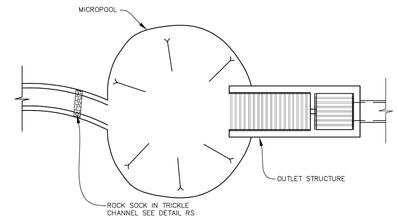
2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL02.dwg – plotted by: kalazard ON 2023-08-24 @ 08:48 – ctb:rec_ncs.ctb – © 2023 Rick Engineering Company

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.




**FOREBAY**




**OUTLET / MICROPOOL**

DP

**DETENTION POND PROTECTION**

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DP 1 OF 2 Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

**DETENTION POND PROTECTION INSTALLATION NOTES**

1. DETENTION POND PROTECTION SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE CONSTRUCTION OF THE TRICKLE CHANNEL AND FOREBAY.
2. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK FOR OUTLET STRUCTURE AND FOREBAY PROTECTION SHALL BE ONE CONTINUOUS PIECE (SEE DETAIL RS).

**DETENTION POND PROTECTION INSPECTION AND MAINTENANCE NOTES**

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE OUTLET STRUCTURE PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY.
3. OUTLET STRUCTURE PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.

Town of Parker COLORADO | CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES | DP 2 OF 2 Oct. 2013

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

| | |
|---|---|
| 2243 | DRAWN/DESIGNED BY: KA/JS |
| 8/24/2023 | CHECKED BY: JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## CBMP DETAILS

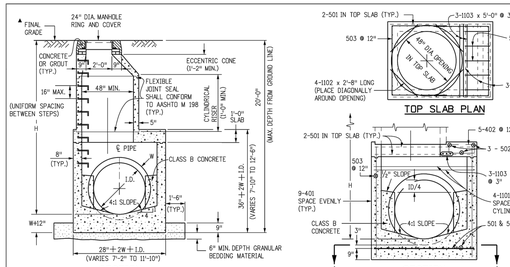
811 Know what's below. Call before you dig.

DRAWING NO. 20

SHEET NO. 20 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL02.dwg – plotted by: kalizard ON 2023-08-24 @ 08:48 – ctb:rec_ncs.ctb – © 2023 Rick Engineering Company



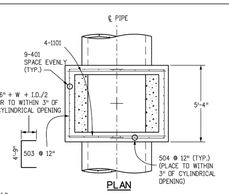

SECTION




TOP SLAB PLAN




SECTION



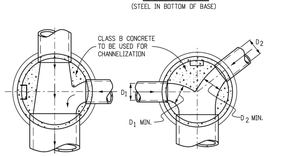

PLAN

MAHHOLE BOX BASE

| MARK | SIZE | TYPE | WT. w/FT | BARS | I.D. 54" | 60" | 66" | 72" | 84" | 96" | FORMULAS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 401 | 4 | I | 0.668 | (NO. REQD.) (LENGTH) WEIGHT # | 18 8'-1" 97.2 | 18 8'-8" 104.2 | 18 9'-3" 111.2 | 18 9'-10" 118.2 | 18 11'-0" 132.3 | 18 12'-2" 146.3 | 401 BAR LENGTH = 32" + 2W + I.D. |
| 402 | 4 | III | 0.668 | (NO. REQD.) (LENGTH) WEIGHT # | 5 5'-5" 18.5 | 5 5'-10" 20.0 | 5 6'-3" 22.0 | 5 6'-7" 23.9 | 5 8'-4" 27.8 | 5 9'-0" 30.7 | 402 BAR LENGTH = I.D. + 2W |
| 501 | 5 | I | 1.043 | (NO. REQD.) (LENGTH) WEIGHT # | 17 7'-5" 131.5 | 17 8'-0" 141.8 | 17 8'-7" 152.2 | 17 9'-2" 162.5 | 17 10'-4" 183.2 | 17 11'-6" 203.9 | 501 BAR LENGTH = 24" + I.D. + 2W |
| 502 | 5 | I | 1.043 | (NO. REQD.) (LENGTH) WEIGHT # | 22 6'-9" 114.7 | 23 7'-4" 119.9 | 25 7'-10" 130.4 | 26 8'-4" 135.6 | 32 9'-10" 166.9 | 32 10'-7" 151.2 | 502 NUMBER BARS REQD. = 3 + $\left(\frac{24+I.D.+2W}{@\ 5"}+1\right)$ |
| 503 | 5 | II | 1.043 | (NO. REQD.) (LENGTH) WEIGHT # | 16 12'-10" 214.2 | 16 13'-5" 223.9 | 18 14'-0" 262.8 | 18 14'-7" 273.8 | 20 15'-9" 328.5 | 24 16'-11" 423.5 | 503 NUMBER BARS REQD. = $2\left(\frac{13+I.D.+2W}{@\ 12"}+1\right)$ BAR LENGTH = 4'-9"+2(6+W+I.D./2) |
| 504 | 5 | I | 1.043 | (NO. REQD.) (LENGTH) WEIGHT # | 12 8'-1" 101.2 | 14 8'-8" 126.6 | 14 9'-3" 135.1 | 16 9'-10" 164.1 | 18 11'-0" 206.5 | 20 12'-2" 253.8 | 504 NUMBER BARS REQD. = $2\left(\frac{28+I.D.-4}{@\ 12"}+1\right)$ BAR LENGTH = 32"+2W+I.D. |
| 1101 | 11 | I | 5.313 | (NO. REQD.) (LENGTH) WEIGHT # | 4 7'-2" 152.3 | 4 7'-9" 164.7 | 4 8'-4" 177.1 | 4 8'-11" 189.5 | 4 10'-2" 214.3 | 4 11'-3" 239.1 | 1101 BAR LENGTH = 22" + I.D. + 2W |
| 1102 | 11 | I | 5.313 | (NO. REQD.) (LENGTH) WEIGHT # | 4 2'-8" 56.7 | 4 2'-8" 56.7 | 4 2'-8" 56.7 | 4 2'-8" 56.7 | 4 2'-8" 56.7 | 4 2'-8" 56.7 | BENDING TYPE I STRAIGHT |
| 1103 | 11 | I | 5.313 | (NO. REQD.) (LENGTH) WEIGHT # | 3 5'-0" 79.7 | 3 5'-0" 79.7 | 3 5'-0" 79.7 | 3 5'-0" 79.7 | 3 5'-0" 79.7 | 3 5'-0" 79.7 | TYPE II 4'-9" 16"+W+I.D./2 |
| # REINFORCING STEEL TOTAL | | | | | 965.6 | 1,037.5 | 1,127.2 | 1,204.0 | 1,380.2 | 1,601.6 | TYPE III 12" 12" 7" I.D.+2W-38" |
| CONCRETE = CUBIC YARDS = TOTAL | | | | | 6.0 | 6.6 | 7.3 | 8.0 | 9.5 | 11.1 | |

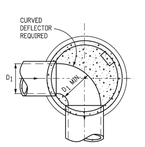
NOTE: QUANTITIES ARE BASED ON SAME SIZE PIPE ENTRANCE TO AND EXIT FROM, BASE AND A 4 FT. MANHOLE ENTRANCE INTO TOP SLAB OF BASE.

QUANTITIES FOR CONCRETE MANHOLE BOX BASE



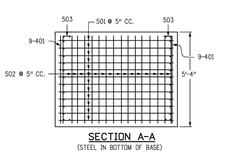

THROUGH PIPE ONE LATERAL

ANGLED LATERALS




SHARP ANGLE

TYPICAL CHANNELIZATION DETAILS




SECTION A-A
(STEEL IN BOTTOM OF BASE)

## 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 ECCENTRIC CONE MAY BE USED WHEN THE MANHOLE "H" HEIGHT IS AT LEAST 8 FT.
3. THE MANHOLE RING FRAME SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE SURROUNDED WITH A CONCRETE GROUT IN UNPAVED AREA, OR A CONCRETE COLLAR IN PAVED AREA. SEE DETAILS ON SHEETS 2 AND 3.
4. DESIGN OF BOX BASE IS BASED ON STRAIGHT RUNS OF PIPE. OR CHANGE IN DIRECTION OF LESS THAN 45°. SPECIAL DESIGN IS REQUIRED FOR 45° OR GREATER.
5. PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO AASHTO M 199 (ASTM C 478).
6. CAST-IN-PLACE MANHOLES SHALL BE CLASS B CONCRETE.
7. STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3 FT.-6 IN. AND SHALL CONFORM TO AASHTO M 199.
8. ALL REINFORCING STEEL SHALL BE GRADE 60 AND EPOXY COATED. VERTICAL STEEL SHALL BE PLACED AT CENTERLINE OF WALL. ALL BARS SHALL HAVE A 2 IN.MINIMUM CLEARANCE.
9. ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY OPEN CHANNELIZATION ADJUSTED FOR PIPE SIZE, SHAPE, SLOPE, AND DIRECTION OF FLOW. DETAILS SHOWN ARE TYPICAL FOR INSTALLATIONS WITH ALL INVERTS OF SAME RELATIVE ELEVATION. FOR EXCESSIVE ELEVATION DIFFERENCE BETWEEN INVERTS, SPECIAL BASE/CHANNEL DETAILS WILL BE SHOWN ON THE PLANS.
10. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
11. STUB-OUTS SHALL EXTEND 2 FT. MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
12. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.

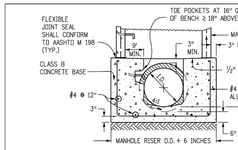
▲ WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER 1/4" MIN. TO 1/2" MAX.

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

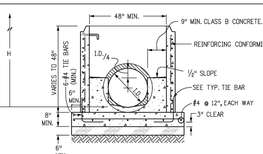
Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

# MANHOLES

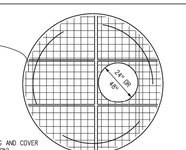
STANDARD PLAN NO. M-604-20
Standard Sheet No. 1 of 3
Issued by the Project Development Branch: July 31, 2019
Project Sheet Number:




SECTION B-B

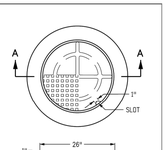



SECTION D-D



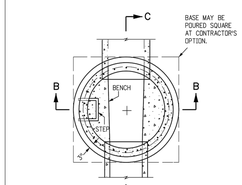

FLAT TOP SECTION DETAIL

▲ WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER 1/4" MIN. TO 1/2" MAX.




TOTAL WEIGHT: APPROXIMATELY 400 LBS. SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.

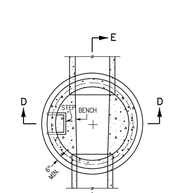
SECTION A-A
MANHOLE RING AND COVER



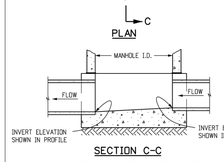

PLAN



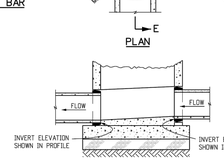

TYPICAL TIE BAR



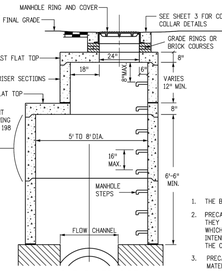

PLAN




SECTION C-C
CAST-IN-PLACE SLAB BASE




SECTION E-E
PRECAST SLAB BASE




MANHOLE RISER DETAIL

## LEGEND

SUITABLE SUBGRADE
GRANULAR BEDDING MATERIAL
CONCRETE

## PRECAST MANHOLE BASES NOTES:

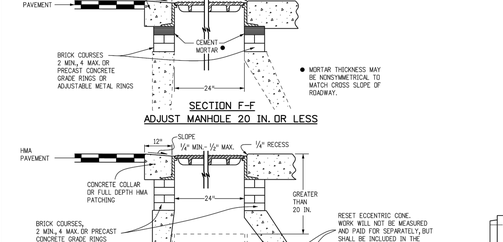
1. THE BASE SLAB SHALL BE POURED MONOLITHICALLY WITH BOTTOM RISER SECTION.
2. PRECAST MANHOLE BASES SHALL FIT THE CONDITIONS AND LOCATIONS FOR WHICH THEY ARE INTENDED WITHOUT ANY FIELD MODIFICATIONS. ANY MANHOLE BASE WHICH REQUIRES FIELD CUTTING OR MODIFICATION IN ORDER TO FIT THE LOCATIONS INTENDED WILL BE REJECTED BY THE ENGINEER AND REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT.
3. PRECAST MANHOLE BASES SHALL BE BEDDED ON AN APPROVED GRANULAR BEDDING MATERIAL AS SHOWN ABOVE.

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

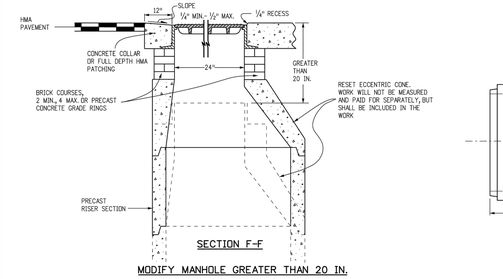
Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868
Project Development Branch JBK

# MANHOLES

STANDARD PLAN NO. M-604-20
Standard Sheet No. 2 of 3
Issued by the Project Development Branch: July 31, 2019
Project Sheet Number:




SECTION F-F
ADJUST MANHOLE 20 IN. OR LESS

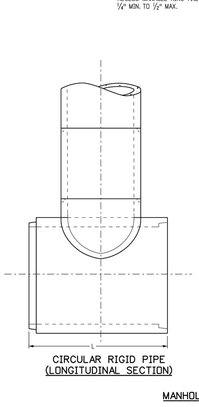


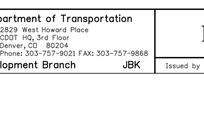

SECTION F-F
MODIFY MANHOLE GREATER THAN 20 IN.

## T-BASE MANHOLES NOTES

1. THE T-BASE SECTION SHALL BE SHOP-FABRICATED FOR DELIVERY TO THE CONSTRUCTION SITE AS A COMPLETE UNIT.
2. THESE DETAILS SHOW ONLY THE CONCEPTUAL AND STANDARD DIMENSIONAL REQUIREMENTS FOR TYPE T-BASE MANHOLES. THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. THE DETAILS SHOWN HEREIN APPLY ONLY TO 48 IN. AND GREATER DIAMETER PIPES.
3. EXCEPT FOR CLASS OF PIPE, SPECIFICATIONS FOR THE MANHOLE SHALL BE THE SAME AS THOSE REQUIRED FOR THE ADJOINING PIPE.
4. THE T-BASE SECTION SHALL MAINTAIN ITS INTERNAL SHAPE AND FLOW AREA. GROUTING OR FILLING SHALL BE APPLIED SO AS TO NOT DISTURB THE NORMAL FLOW OR REDUCE THE AREA.

▲ WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER 1/4" MIN. TO 1/2" MAX.




CIRCULAR RIGID PIPE (LONGITUDINAL SECTION)

CIRCULAR RIGID PIPE (TRANSVERSE SECTION)

MANHOLE T-BASE

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

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

# MANHOLES

STANDARD PLAN NO. M-604-20
Standard Sheet No. 3 of 3
Issued by the Project Development Branch: July 31, 2019
Project Sheet Number:

## LEGEND

H = ALLOWABLE HEIGHT OF COVER OVER THE TOP OF THE PIPE, EXCLUDING PAVEMENT THICKNESS.

THE MINIMUM COVER SHALL BE THE DIMENSIONS SHOWN IN THE TABLE BELOW OR THE ENTIRE PAVEMENT STRUCTURE THICKNESS AS DEFINED IN SPECIFICATION 101.02, WHICHEVER IS GREATER.

THE MINIMUM COVER IN THE TABLE BELOW IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT: HMA OR PCCP

FILL HEIGHTS AND DESIGN ASSUMPTIONS ARE BASED ON AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, SECTION 12, FOR 900 PSI LONG TERM STRENGTH OF HDPE, AND AASHTO T180 MINIMUM RELATIVE COMPACTION OF 95%.

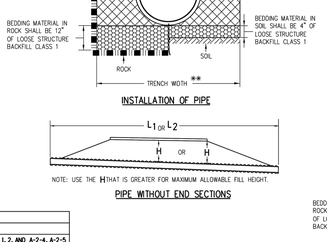
FILL HEIGHTS ARE BASED ON AASHTO M294 FOR POLYETHYLENE TYPE S PIPES WITH OUTER, CORRUGATED WALLS AND SMOOTH INNER LINERS.

$L_1$ = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 624.

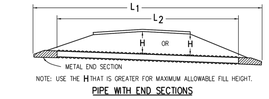
$L_2$ = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 603.

M = THE MINIMUM SPACING BETWEEN THE OUTSIDE WALLS OF MULTIPLE PIPES OR END SECTIONS IS 18" OR 1/16 d, WHICHEVER IS GREATER.

d = INNER DIAMETER OF PIPE.




INSTALLATION OF PIPE




NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.

PIPE WITH END SECTIONS




NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.

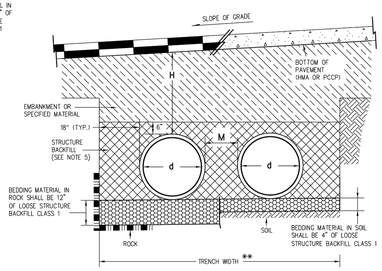
PIPE WITHOUT END SECTIONS

| HIGH DENSITY POLYETHYLENE (HDPE) FINAL FILL HEIGHTS H MAXIMUM COVER (FT.) | | | | |
|---|---|---|---|---|
| PIPE DIA d (IN.) | H MIN. COVER (FT.) | FLOWABLE FILL COMP. | CDOT CLASS 3 AND A-1, A-3 95% | CDOT CLASS 1, 2, AND A-2-4, A-2-5 95% |
| 12 | 1 | 35 | 24 | 17 |
| 15 | 1 | 38 | 25 | 18 |
| 18 | 1 | 36 | 24 | 17 |
| 24 | 1 | 28 | 20 | 14 |
| 30 | 1 | 28 | 20 | 14 |
| 36 | 1 | 26 | 18 | 13 |
| 42 | 1 | 23 | 16 | 11 |
| 48 | 1 | 25 | 17 | 12 |
| 54 | 1 | 22 | 16 | 11 |
| 60 | 2 | 25 | 17 | 12 |

MINIMUM AND MAXIMUM COVER

## GENERAL NOTES

1. ALL PIPES SHALL MEET THE REQUIREMENTS OF AASHTO M294 FOR POLYETHYLENE TYPE S WITH SMOOTH INNER SURFACE.
2. WHEN A PIPE IS TO BE EXTENDED, THE SAME PIPE MATERIAL AND SIZE AS IN THE ORIGINAL INSTALLATION SHALL BE USED.
3. MINIMUM COVER FOR TEMPORARY/CONSTRUCTION LOADS SHALL BE PROVIDED DURING CONSTRUCTION TO PROTECT THE PIPE FROM DAMAGE AS SHOWN IN THE TABLE. FINAL MAXIMUM COVER HEIGHTS (H) SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
4. WHEN INSTALLING A GUARDRAIL OR A SIGN POST DIRECTLY ABOVE A PIPE, THE POST'S BOTTOM MUST BE AT LEAST 1 FOOT ABOVE THE TOP OF THE PIPE. THE HOLE FOR THE POST SHALL BE DRILLED INTO THE SOIL.
5. STRUCTURE BACKFILL MATERIAL SHALL BE CLASS 1.
6. FOR PIPES 24 INCHES OR LESS IN DIAMETER, H MIN. MAY BE REDUCED TO ONE FOOT FOR LOW VOLUME APPROACH ROADS NOT ON STATE HIGHWAYS.
7. FOR FLOWABLE FILL INSTALLATIONS, REFER TO SECTION 206.02(A). CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN PROPER PIPE ALIGNMENT AND PREVENT DISPLACEMENT DUE TO PIPE BOUNCY.




INSTALLATION OF MULTIPLE PIPES

NOTE: M IS 12 INCHES FOR DIAMETERS (d) UP TO AND INCLUDING 24 INCHES AND d/2 FOR GREATER DIAMETERS.

** TRENCH WIDTH ASSUMES STABLE IN-SITU SIDE WALL

| NOMINAL PIPE DIAMETER (IN.) | MINIMUM COVER (IN.) FOR INDICATED AXLE LOADS (KIPS) | | | |
|---|---|---|---|---|
| | 18.0–50.0 | 50.0–75.0 | 75.0–110.0 | 110.0–150.0 |
| 24 – 36 | 24.0 | 30.0 | 36.0 | 36.0 |
| 42 – 48 | 36.0 | 36.0 | 42.0 | 48.0 |
| 54 – 60 | 36.0 | 36.0 | 42.0 | 48.0 |

MINIMUM COVER FOR CONSTRUCTION LOADS

| Computer File Information | | Sheet Revisions | |
|---|---|---|---|
| Creation Date: 07/31/19 | | Date: | Comments |
| Designer Initials: JBK | BOX | 03/07/22 | Separated the previous M-603-4, Corrugated Polyethylene Pipe (AASHTO M294) and Polypropylene Pipe (AASHTO M330) sheet into 2 sheets. Revised the Legend and Gen. Notes. Deleted the "Construction Minimum Cover for Plant" detail and incorporated its dimensions in to the tables and installation of Pipes details. |
| Last Modification Date: 03/07/22 | BOX | | |
| Detailer Initials: LTA | BOX | | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | BOX | | |

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

# CORRUGATED POLYETHYLENE PIPE (AASHTO M294)

STANDARD PLAN NO. M-603-4
Standard Sheet No. 1 of 2
Issued by the Project Development Branch: July 31, 2019
Project Sheet Number:

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL03.dwg – plotted by: kalazard ON 2023-08-24 @ 08:48 – ctbrec_mcs.ctb – © 2022 Rick Engineering Company

SEAL:

| NO. | BY | DATE | REVISION |
|---|---|---|---|

RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
rickengineering.com

PROJECT NO: 2243 | DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 | CHECKED BY: JS

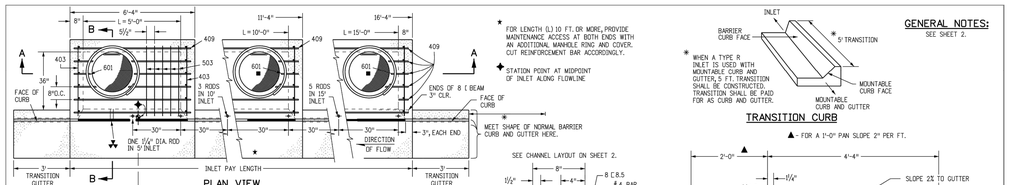
ROADWAY & STORM DRAIN PLANS PREPARED FOR:
DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4
DOUGLAS COUNTY, COLORADO

STANDARD DETAILS

Know what's below. Call before you dig.

DRAWING NO. 21
SHEET NO. 21 OF 26

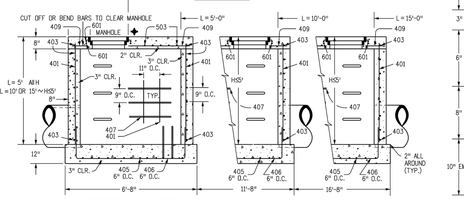
2ND SUBMITTAL



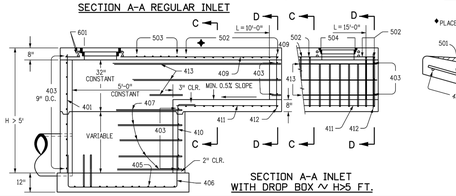

PLAN VIEW

FOR LENGTH (L) 10 FT. OR MORE, PROVIDE MAINTENANCE ACCESS AT BOTH ENDS WITH AN ADDITIONAL MANHOLE RING AND COVER. CUT REINFORCEMENT BAR ACCORDINGLY.

STATION POINT AT MIDPOINT OF INLET ALONG FLOWLINE



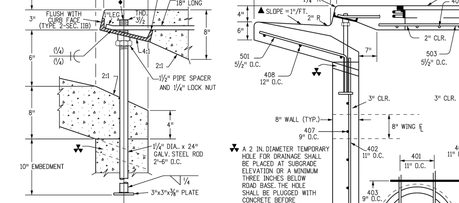

SECTION A-A REGULAR INLET




SECTION A-A INLET WITH DROP BOX ~ H>5 FT.

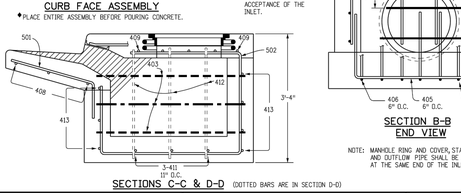



TRANSITION CURB

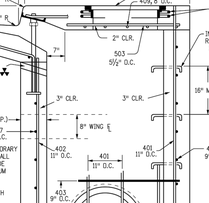



CURB FACE ASSEMBLY

PLACE ENTIRE ASSEMBLY BEFORE POURING CONCRETE.




SECTIONS C-C & D-D (DOTTED BARS ARE IN SECTION D-D)




SECTION B-B END VIEW

▲ - FOR A 1"-0" PAN SLOPE 2" PER FT.

A 2 IN. DIAMETER TEMPORARY HOLE FOR DRAINAGE SHALL BE PLACED AT SUBGRADE ELEVATION OR A MINIMUM THREE INCHES BELOW ROAD BASE. THE HOLE SHALL BE PLUGGED WITH CONCRETE BEFORE ACCEPTANCE OF THE INLET.

NOTE: MANHOLE RING AND COVER, STATION POINT AND OUTFLOW PIPE SHALL BE LOCATED AT THE SAME END OF THE INLET.

## GENERAL NOTES:

SEE SHEET 2.

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

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

Project Development Branch JBK

# CURB INLET TYPE R

STANDARD PLAN NO. M-604-12

Standard Sheet No. 1 of 2

Issued by the Project Development Branch: July 31, 2019

Project Sheet Number:

| MARK | BAR # OR SIZE | O.C. SPACING | TYPE | ALL INLETS L = 5 FT. NO. REQ'D. | ALL INLETS L = 5 FT. LENGTH | INLETS: H ≤ 5 FT. L = 10 FT. NO. REQ'D. | INLETS: H ≤ 5 FT. L = 10 FT. LENGTH | INLETS: H ≤ 5 FT. L = 15 FT. NO. REQ'D. | INLETS: H ≤ 5 FT. L = 15 FT. LENGTH | INLETS: H > 5 FT. L = 10 FT. NO. REQ'D. | INLETS: H > 5 FT. L = 10 FT. LENGTH | INLETS: H > 5 FT. L = 15 FT. NO. REQ'D. | INLETS: H > 5 FT. L = 15 FT. LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 401 | 4 | 11" | I1 | 15 | * | 21 | * | 26 | * | 11 | * | 11 | * |
| 402 | 4 | 11" | I1 | 7 | * | 13 | * | 18 | * | 7 | * | 7 | * |
| 403 | 4 | 9" | I1 | * | 4'-0" | * | 4'-0" | * | 4'-0" | * | 4'-0" | * | 4'-0" |
| 405 | 4 | 6" | VI | 11 | 6'-10" | 21 | 6'-10" | 31 | 6'-10" | 11 | 6'-10" | 11 | 6'-10" |
| 406 | 4 | 6" | VIII | 7 | 8'-10" | 7 | 13'-10" | 7 | 18'-10" | 7 | 8'-10" | 7 | 8'-10" |
| 407 | 4 | 9" | I1 | * | 5'-10" | * | 10'-10" | * | 15'-10" | * | 5'-10" | * | 5'-10" |
| 408 | 4 | 12" | I1 | 3 | 6'-10" | 3 | 11'-10" | 3 | 16'-0" | 3 | 11'-10" | 3 | 16'-0" |
| 409 | 4 | 8" | I1 | 6 | 5'-10" | 6 | 10'-10" | 6 | 15'-10" | 6 | 10'-10" | 6 | 15'-10" |
| 410 | 4 | 11" | VII | | | | | | | 3 | | 3 | * |
| 411 | 4 | 11" | I1 | | | | | | | 3 | 5'-2" | 3 | 10'-2" |
| 412 | 4 | 11" | I1 | | | | | | | 3 | 2'-9" | 3 | 2'-9" |
| 413 | 4 | 9" | I1 | | | | | | | 7 | 10'-10" | 7 | 15'-10" |
| 501 | 5 | 5½" | IV | 11 | 3'-4" | 22 | 3'-4" | 33 | 3'-4" | 22 | 3'-4" | 33 | 3'-4" |
| 502 | 5 | 5½" | III | | | | | | | 11 | 11'-5" | 17 | 11'-5" |
| 503 | 5 | 5½" | II | 5 | 3'-6" | 16 | 3'-6" | 27 | 3'-6" | 6 | 3'-6" | 6 | 3'-6" |
| 504 | 5 | 5½" | IX | | | | | | | | | 5 | 8'-4" |
| 601 | 6 | 2½" | V | 2 | 8'-10" | 2 | 8'-10" | 2 | 8'-10" | 2 | 8'-10" | 4 | 8'-10" |
| ■ RE8.5 | | | | 1 | 5'-10" | 1 | 10'-10" | 1 | 15'-10" | 1 | 10'-10" | 1 | 15'-10" |
| | | | | 2 BARS, 1 RODS | —— | 4 BARS, 2 RODS | —— | 6 BARS, 3 RODS | —— | 4 BARS, 1 RODS | —— | 6 BARS, 2 RODS | —— |
| | | | | | | REGULAR INLETS | | | | DROP BOX INLETS | | | |

* VARIABLE REFER TO TABLE TWO.

■ INCLUDE #4, 18 IN. BARS (SEE CHANNEL LAYOUT).

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

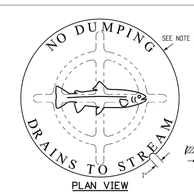
| "H" | LENGTH 401 | LENGTH 402 | LENGTH 410 | NO. REQ'D. REGULAR 403 | NO. REQ'D. REGULAR 407 | NO. REQ'D. DROP BOX 403 | NO. REQ'D. DROP BOX 407 | L = 5 FT. CONC. CU. YDS. | L = 5 FT. STEEL LBS. | L = 10 FT. CONC. CU. YDS. | L = 10 FT. STEEL LBS. | L = 15 FT. CONC. CU. YDS. | L = 15 FT. STEEL LBS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3'-0" | 2'-8" | 1'-8" | | 10 | 7 | | | 3.2 | 285 | 5.3 | 497 | 7.4 | 706 |
| 3'-6" | 3'-2" | 2'-2" | | 10 | 7 | | | 3.4 | 305 | 5.7 | 528 | 7.9 | 747 |
| 4'-0" | 3'-8" | 2'-8" | | 12 | 9 | | | 3.7 | 326 | 6.0 | 559 | 8.4 | 786 |
| 4'-6" | 4'-2" | 3'-2" | | 12 | 9 | | | 3.9 | 334 | 6.4 | 571 | 8.8 | 803 |
| 5'-0" | 4'-8" | 3'-8" | | 14 | 11 | | | 4.1 | 354 | 6.7 | 602 | 9.3 | 844 |
| 5'-6" | 5'-2" | 4'-2" | 3'-5" | 16 | 13 | 15 | 6 | 4.4 | 375 | 6.0 | 607 | 7.4 | 850 |
| 6'-0" | 5'-8" | 4'-8" | 3'-11" | 16 | 13 | 16 | 6 | 4.6 | 382 | 6.2 | 616 | 7.6 | 860 |
| 6'-6" | 6'-2" | 5'-2" | 4'-5" | 18 | 15 | 18 | 8 | 4.8 | 402 | 6.4 | 637 | 7.8 | 880 |
| 7'-0" | 6'-8" | 5'-8" | 4'-11" | 20 | 17 | 19 | 10 | 5.0 | 423 | 6.6 | 654 | 8.0 | 897 |
| 7'-6" | 7'-2" | 6'-2" | 5'-5" | 20 | 17 | 20 | 10 | 5.3 | 430 | 6.9 | 664 | 8.3 | 907 |
| 8'-0" | 7'-8" | 6'-8" | 5'-11" | 22 | 19 | 22 | 12 | 5.5 | 451 | 7.1 | 684 | 8.5 | 927 |
| 8'-6" | 8'-2" | 7'-2" | 6'-5" | 24 | 21 | 23 | 14 | 5.7 | 471 | 7.3 | 702 | 8.7 | 944 |
| 9'-0" | 8'-8" | 7'-8" | 6'-11" | 24 | 21 | 24 | 14 | 6.0 | 479 | 7.6 | 711 | 9.0 | 954 |
| 9'-6" | 9'-2" | 8'-2" | 7'-5" | 26 | 23 | 26 | 16 | 6.2 | 499 | 7.8 | 732 | 9.2 | 974 |
| 10'-0" | 9'-8" | 8'-8" | 7'-11" | 28 | 25 | 27 | 18 | 6.4 | 520 | 8.0 | 749 | 9.4 | 992 |
| 10'-6" | 10'-2" | 9'-2" | 8'-5" | 28 | 25 | 28 | 18 | 6.7 | 527 | 8.3 | 759 | 9.7 | 1001 |
| 11'-0" | 10'-8" | 9'-8" | 8'-11" | 30 | 27 | 30 | 20 | 6.9 | 547 | 8.5 | 779 | 9.9 | 1022 |

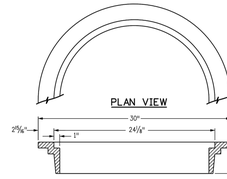
NOTES: FOR L=5 FT, L = 10 FT., AND L =15 FT.
REGULAR INLETS: TOTAL QUANTITIES NEEDED ARE OUTSIDE THE HEAVY BLACK LINE.
DROP BOX INLETS: TOTAL QUANTITIES NEEDED ARE INSIDE THE HEAVY BLACK LINE.
STEEL WEIGHTS DO NOT INCLUDE STRUCTURAL STEEL CHANNEL.

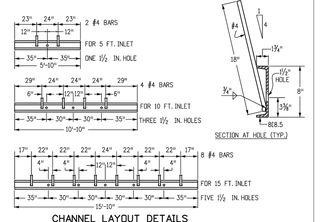
TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

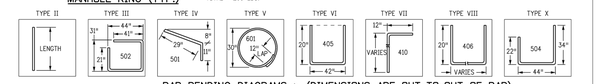
## GENERAL NOTES

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 INCHES THICK.
3. INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
4. CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ OF A INCH. CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEYOND THE TRANSITION GUTTER.
6. REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 INCH MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE GRADE 60 AND EPOXY COATED.
7. DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
8. MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
9. SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK. QUANTITIES INCLUDE VOLUMES OCCUPIED BY PIPES.
10. STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
11. ALL MANHOLE COVERS SHALL BE CAST WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE AND A FISH SYMBOL. THE SURFACE OF THE MANHOLE COVER SHALL HAVE A NON-SLIP PATTERN.




BAR BENDING DIAGRAMS ~ (DIMENSIONS ARE OUT-TO-OUT OF BAR)

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

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

Project Development Branch JBK

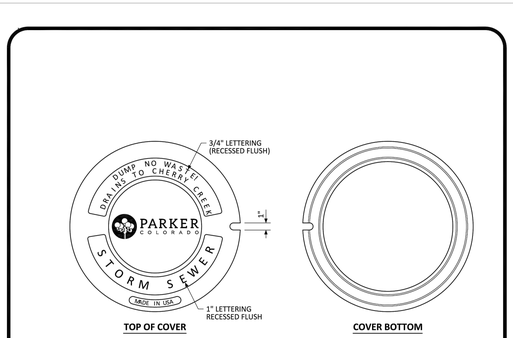
# CURB INLET TYPE R

STANDARD PLAN NO. M-604-12

Standard Sheet No. 2 of 2

Issued by the Project Development Branch: July 31, 2019

Project Sheet Number:




**GENERAL NOTES**

1. LOAD RATING - HEAVY DUTY.
2. COATING - UNDIPPED.
3. ESTIMATED WEIGHT - 112 LBS.
4. MATERIAL SPECIFICATION - GRAY IRON ASTM A48 CL35B.
5. FOR USE ON ALL PRIVATE AND PUBLIC STORM SEWER.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO

**MANHOLE COVER STANDARD DETAIL**

DATE: NOVEMBER 2020

DETAIL: 33

1 OF 1

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:

8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com

RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

| | | | |
|---|---|---|---|
| PROJECT NO: | 2243 | DRAWN/DESIGNED BY: | KA/JS |
| DATE: | 8/24/2023 | CHECKED BY: | JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## STANDARD DETAILS

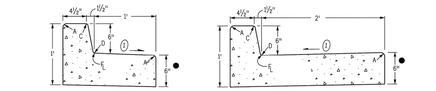
Know what's below. Call before you dig.

DRAWING NO. 22

SHEET NO. 22 OF 26

2ND SUBMITTAL

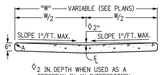
C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL03.dwg — plotted by: kalozard ON 2023-08-24 @ 08:48 — ctb:rec_rics.ctb — © 2022 Rick Engineering Company



CURB AND GUTTER TYPE 2
(SECTION IB)
(6 IN. BARRIER - 1 FT. GUTTER)

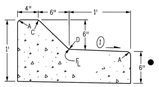


CURB AND GUTTER TYPE 2
(SECTION IIB)
(6 IN. BARRIER - 2 FT. GUTTER)

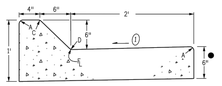


◊ 2 IN. DEPTH WHEN USED AS A CROSSPAN IN AN INTERSECTION

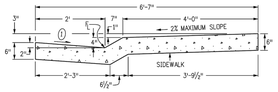
GUTTER TYPE 2



CURB AND GUTTER TYPE 2
(SECTION IM)
(6 IN. MOUNTABLE - 1 FT. GUTTER)



CURB AND GUTTER TYPE 2
(SECTION IIM)
(6 IN. MOUNTABLE - 2 FT. GUTTER)



CURB AND GUTTER TYPE 2
(SECTION MS)
(4 IN. MOUNTABLE WITH SIDEWALK)

## GENERAL NOTES

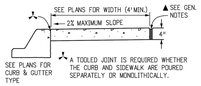
1. ON ROADWAY CURVES WITH A RADIUS OF 1,900 FT. OR LESS, CURBS AND GUTTERS ARE TO BE PLACED ON THE ARC OF THE CURVE, UNLESS OTHERWISE NOTED ON THE PLANS. A MAXIMUM CHORD LENGTH OF 10 FT. MAY BE USED WHEN THE CURVE RADIUS IS GREATER THAN 1,900 FT.
2. CONCRETE SHALL BE CLASS B.
3. PROFILE GRADE OF CURBS AND GUTTERS SHALL BE LOCATED AT THE FLOW LINE.
4. CURB TYPE 4 (KEY-WAY) MAY BE USED IN LIEU OF CURB AND GUTTER TYPE 2 (SECTIONS IB AND IM) UNLESS OTHERWISE SPECIFIED ON THE PLANS.
5. GUTTER CROSS SLOPES MAY BE ADJUSTED TO FACILITATE DRAINAGE FOR PROFILE GRADES AS SHOWN ON THE PLANS.
6. THICKNESS OF CURB AND GUTTER SECTION SHALL MATCH CONCRETE PAVEMENT THICKNESS IF SHOWN ON THE PLANS. CURB AND GUTTER SHALL BE CLASS P CONCRETE IF PLACED MONOLITHICALLY WITH CONCRETE PAVEMENT.
7. INCREASE SIDEWALK THICKNESS TO 6 IN. AT LOCATIONS SHOWN ON THE PLANS.
8. MINIMUM SIDEWALK WIDTH IS 4 FT.

▲ EXPANSION JOINTS SHALL BE INSTALLED WHEN ABUTTING EXISTING CONCRETE OR FIXED STRUCTURE. EXPANSION JOINT MATERIAL SHALL BE ½ IN. THICK AND SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE.

(1) GUTTER CROSS SLOPES SHALL BE ½ IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB (WITH EXCEPTION TO IMMEDIATELY ADJACENT TO CURB RAMPS - SEE STANDARD PLAN M-608-1 FOR SLOPE REQUIREMENTS).

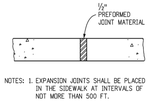
● WHEN TIE BARS ARE REQUIRED, THE GUTTER THICKNESS SHALL BE INCREASED TO THE PAVEMENT THICKNESS (T). BARS SHALL BE EPOXY-COATED #4 CONFORMING TO AASHTO M 284 AND SPACED AT 3 FT. INTERVALS. THEY SHALL BE INSERTED ½ AND 1½ LENGTH INTO THE GUTTER.

| LEGEND FOR RADII |
|---|
| A = 1⅛" TO ¼" |
| B = 1" |
| C = 1½" |
| D = 1½" TO 2" |



SEE PLANS FOR WIDTH (4' MIN.) ▲ SEE GEN. NOTES
2% MAXIMUM SLOPE
4"
SEE PLANS FOR CURB & GUTTER TYPE
▲ A TOOLED JOINT IS REQUIRED WHETHER THE CURB AND SIDEWALK ARE POURED SEPARATELY OR MONOLITHICALLY.

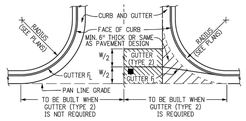
CONCRETE SIDEWALK



½" PREFORMED JOINT MATERIAL

NOTES: 1. EXPANSION JOINTS SHALL BE PLACED IN THE SIDEWALK AT INTERVALS OF NOT MORE THAN 500 FT.
2. EXPANSION JOINTS MAY BE SEALED WHEN SPECIFIED ON THE PLANS.

SIDEWALK EXPANSION JOINT




▨ THIS AREA SHALL BE POURED MONOLITHICALLY WITH CURB AND GUTTER AND PAID FOR AS "CONCRETE PAVEMENT".

■ FLOW LINE LOCATION WILL BE ESTABLISHED BY W/2 SHOWN ON PLANS.

CONSTRUCTION OF CONCRETE GUTTERS AT INTERSECTION

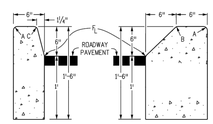
| Computer File Information | | Sheet Revisions | |
|---|---|---|---|
| Creation Date: 07/31/19 | | Date: | Comments |
| Designer Initials: JBK | ☐ | | |
| Last Modification Date: 07/31/19 | ☐ | | |
| Detailer Initials: LTA | ☐ | | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | ☐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

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

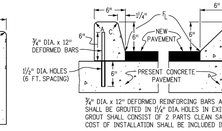
# CURB, GUTTERS, AND SIDEWALKS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-609-1
Standard Sheet No. 1 of 4
Project Sheet Number:



CURB TYPE 2
(SECTION B)
6 IN. BARRIER



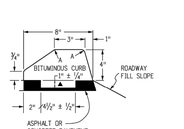
CURB TYPE 2
(SECTION M)
6 IN. MOUNTABLE

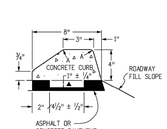



¾" DIA. x 12" DEFORMED REINFORCING BARS AT 6 FT. SPACING SHALL BE GROUTED IN 1½" DIA. HOLES IN EXISTING CONCRETE. GROUT SHALL CONSIST OF 2 PARTS CLEAN SAND AND 1 PART CEMENT. COST OF INSTALLATION SHALL BE INCLUDED IN THE PRICE BID FOR CURB.

CURB TYPE 4
(SECTION B)
6 IN. BARRIER

CURB TYPE 4
(SECTION M)
6 IN. MOUNTABLE

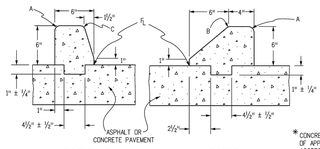



CURB TYPE 6
(SECTION M)
4 IN. MOUNTABLE

NOTE: BITUMINOUS OR CONCRETE* UNLESS OTHWISE SPECIFIED ON THE PLANS.

▲ KEY-WAY MAY BE OMITTED WHEN PLACED UNDER GUARDRAIL.

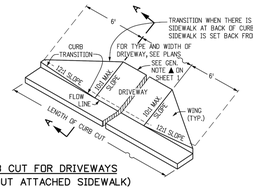


(SECTION B) (SECTION M)

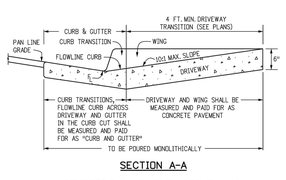
CURB TYPE 4 (KEY-WAY)*

| LEGEND FOR RADII |
|---|
| A = ⅛ TO ¼" |
| B = 1" |
| C = 1½" |
| D = 1½" TO 2" |

* CONCRETE CLASS B SHALL CONTAIN 1.5 POUNDS PER CUBIC YARD OF APPROVED POLYPROPYLENE FIBERS AND MAY HAVE A NOMINAL AGGREGATE SIZE OF ⅜ IN.

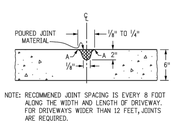



CURB CUT FOR DRIVEWAYS
(WITHOUT ATTACHED SIDEWALK)




SECTION A-A

CONCRETE PAVEMENT (DRIVEWAYS)




NOTE: RECOMMENED JOINT SPACING IS EVERY 8 FOOT ALONG THE WIDTH AND LENGTH OF DRIVEWAY. FOR DRIVEWAYS WIDER THAN 12 FEET, JOINTS ARE REQUIRED.

TRANSVERSE CONTRACTION JOINT FOR CONCRETE PAVEMENT (DRIVEWAYS)

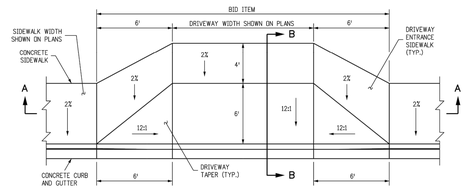
| Computer File Information | | Sheet Revisions | |
|---|---|---|---|
| Creation Date: 07/31/19 | | Date: | Comments |
| Designer Initials: JBK | ☐ | | |
| Last Modification Date: 07/31/19 | ☐ | | |
| Detailer Initials: LTA | ☐ | | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | ☐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

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

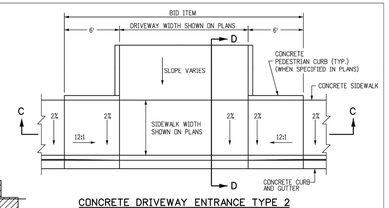
# CURB, GUTTERS, AND SIDEWALKS

Issued by the Project Development Branch: July 31, 2019

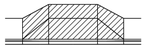
STANDARD PLAN NO.
M-609-1
Standard Sheet No. 2 of 4
Project Sheet Number:



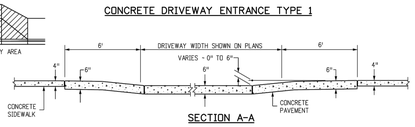

CONCRETE DRIVEWAY ENTRANCE TYPE 1



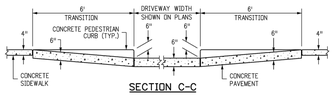

CONCRETE DRIVEWAY ENTRANCE TYPE 2



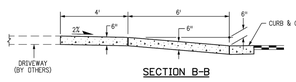
CONCRETE PAVEMENT PAY AREA



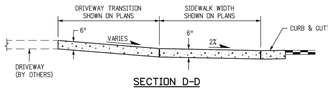

SECTION A-A



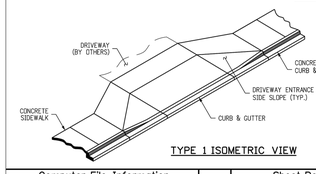

SECTION C-C



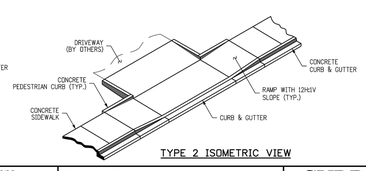

SECTION B-B




SECTION D-D




TYPE 1 ISOMETRIC VIEW




TYPE 2 ISOMETRIC VIEW

## NOTES

1. DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, JUNCTION BOXES, AND OTHER OBSTRUCTIONS SHOULD NOT BE PLACED IN FRONT OF THE DRIVEWAY RAMP ACCESS AREAS.
2. FOR THE CURB AND GUTTER SHOWN, SEE PLANS FOR CURB TYPE.
3. RAMP SLOPES SHALL BE 12:1 OR FLATTER.
4. CONSTRUCTION OF THE CONCRETE PEDESTRIAN CURB SHALL BE INCLUDED IN THE BID PRICE OF THE CONCRETE PAVEMENT.

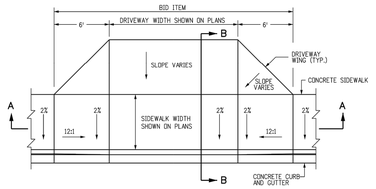
| Computer File Information | | Sheet Revisions | |
|---|---|---|---|
| Creation Date: 07/31/19 | | Date: | Comments |
| Designer Initials: JBK | ☐ | | |
| Last Modification Date: 07/31/19 | ☐ | | |
| Detailer Initials: LTA | ☐ | | |
| CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English | ☐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

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

# CURB, GUTTERS, AND SIDEWALKS

Issued by the Project Development Branch: July 31, 2019

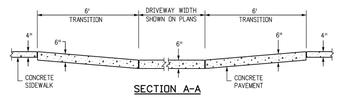
STANDARD PLAN NO.
M-609-1
Standard Sheet No. 3 of 4
Project Sheet Number:



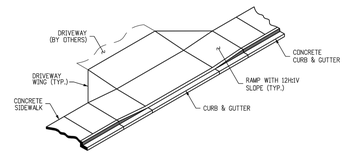

CONCRETE DRIVEWAY ENTRANCE TYPE 3



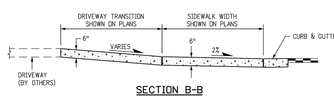
CONCRETE PAVEMENT PAY AREA




SECTION A-A




TYPE 3 ISOMETRIC VIEW




SECTION B-B

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

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

# CURB, GUTTERS, AND SIDEWALKS

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-609-1
Standard Sheet No. 4 of 4
Project Sheet Number:

| NO. | BY | DATE | REVISION |
|---|---|---|---|

SEAL:


RICK ENGINEERING COMPANY
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com


| | | |
|---|---|---|
| PROJECT NO: | 2243 | DRAWN/DESIGNED BY: KA/JS |
| DATE: | 8/24/2023 | CHECKED BY: JS |

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

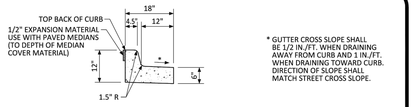
STANDARD DETAILS

Know what's below. Call before you dig.

DRAWING NO.
23
SHEET NO. 23 OF 26

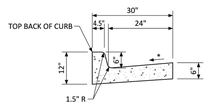
2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DT103.dwg - plotted by: kalazard ON 2023-08-24 @ 08:48 - ctb:rec_mcs.ctb - ©2022 Rick Engineering Company

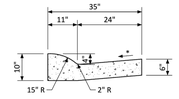



* GUTTER CROSS SLOPE SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 3 IN./FT. WHEN DRAINING TOWARD CURB. DIRECTION OF SLOPE SHALL MATCH STREET CROSS SLOPE.

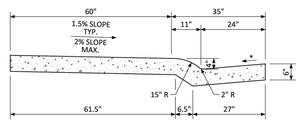
**MEDIAN CURB AND GUTTER SECTION**
(CDOT CURB AND GUTTER TYPE 2 (SECTION I-B))




**VERTICAL CURB AND GUTTER SECTION**
(CDOT CURB AND GUTTER TYPE 2 (SECTION II-B))




**MOUNTABLE CURB AND GUTTER SECTION**




**MONOLITHIC COMBINATION CURB, GUTTER AND SIDEWALK SECTION**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

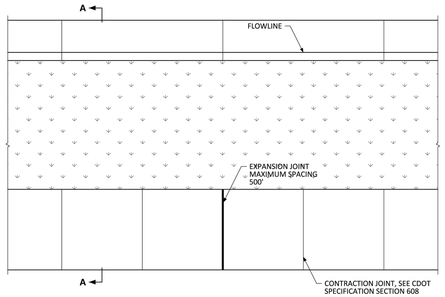
PARKER COLORADO

**CURB, GUTTER, AND SIDEWALK SECTIONS STANDARD DETAIL**

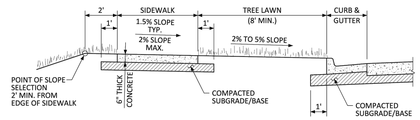
DATE: NOVEMBER 2020

DETAIL: 3

1 OF 1




**JOINT SPACING**




**SECTION A-A**

**GENERAL NOTES**

1. CONTRACTION JOINTS ON CONCRETE TRAILS SHALL BE SAWCUT.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

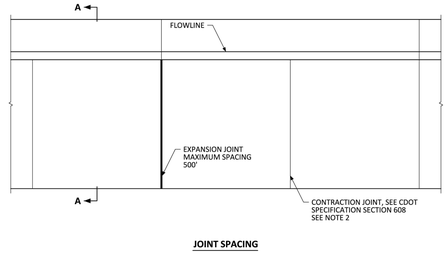
PARKER COLORADO

**DETACHED SIDEWALK STANDARD DETAIL**

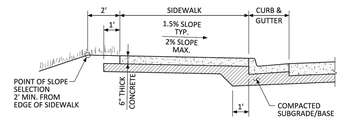
DATE: NOVEMBER 2020

DETAIL: 4

1 OF 2




**JOINT SPACING**




**SECTION A-A**

**GENERAL NOTES**

1. CONTRACTION JOINTS ON CONCRETE TRAILS SHALL BE SAWCUT.
2. TRANSVERSE SIDEWALK JOINTS SHALL MATCH CURB AND GUTTER JOINTS.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

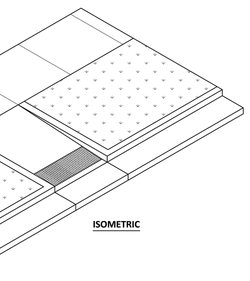
PARKER COLORADO

**ATTACHED SIDEWALK STANDARD DETAIL**

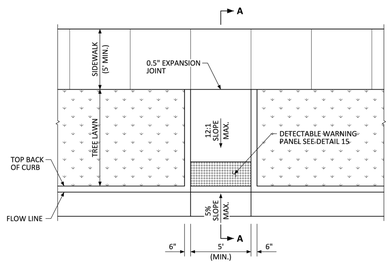
DATE: NOVEMBER 2020

DETAIL: 4

2 OF 2



**ISOMETRIC**




**MIDBLOCK CURB RAMP**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

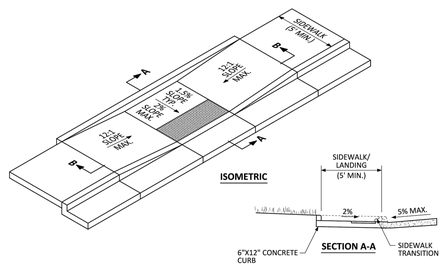
PARKER COLORADO

**MIDBLOCK CURB RAMP LAYOUT STANDARD DETAIL**

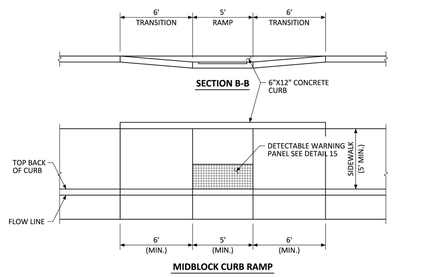
DATE: NOVEMBER 2020

DETAIL: 17

1 OF 2




**ISOMETRIC**




**MIDBLOCK CURB RAMP**

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

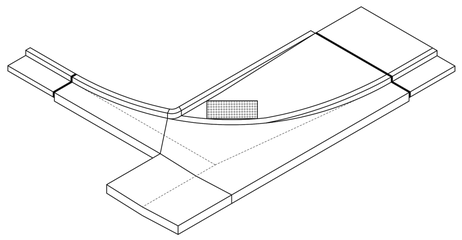
PARKER COLORADO

**MIDBLOCK CURB RAMP LAYOUT STANDARD DETAIL**

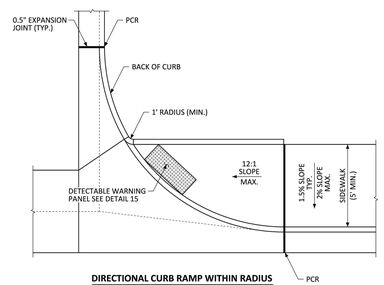
DATE: NOVEMBER 2020

DETAIL: 17

2 OF 2



**ISOMETRIC**




**DIRECTIONAL CURB RAMP WITHIN RADIUS**
(ATTACHED SIDEWALK)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO

**DIRECTIONAL CURB RAMP WITHIN RADIUS LAYOUT STANDARD DETAIL**

DATE: NOVEMBER 2020

DETAIL: 18

1 OF 2

SEAL:

| NO. | BY | DATE | REVISION |
|---|---|---|---|

RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

PROJECT NO: 2243 | DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 | CHECKED BY: JS

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## STANDARD DETAILS

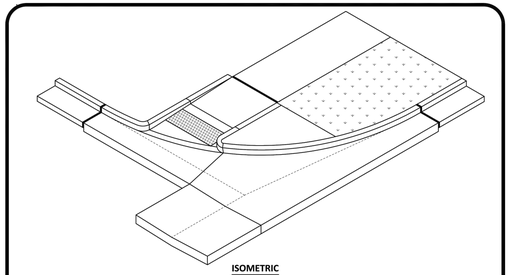
Know what's **below.** **Call** before you dig.

DRAWING NO. 24

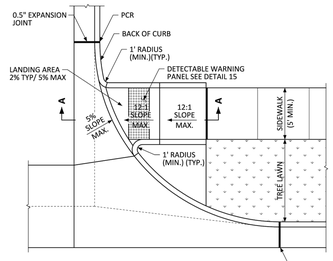
SHEET NO. 24 OF 26

2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL03.dwg — plotted by: kalozard ON 2023-08-24 @ 08:49 — ctb:rec_ncs.ctb — © 2022 Rick Engineering Company



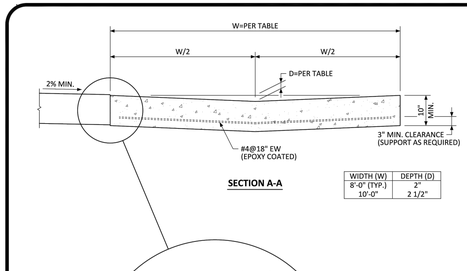
**ISOMETRIC**




**DIRECTIONAL CURB RAMP WITHIN RADIUS**
(DETACHED SIDEWALK)

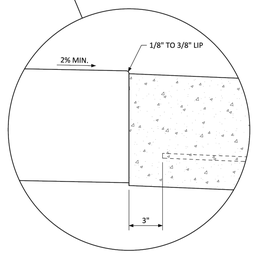
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

| PARKER COLORADO | DIRECTIONAL CURB RAMP WITHIN RADIUS LAYOUT STANDARD DETAIL | DATE NOVEMBER 2020 | DETAIL 18 2 OF 2 |
|---|---|---|---|




**SECTION A-A**

| WIDTH (W) | DEPTH (D) |
|---|---|
| 8'-0" (TYP.) | 2" |
| 10'-0" | 2 1/2" |

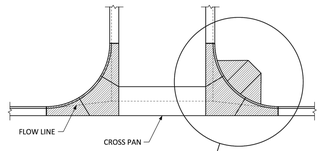



**GENERAL NOTES**

1. CONTRACTION JOINTS SHALL BE PROVIDED AT 10' MAXIMUM SPACING.

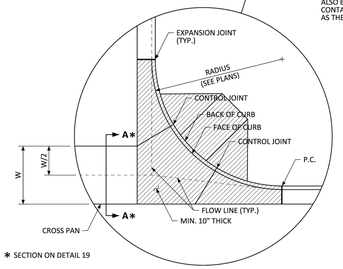
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

| PARKER COLORADO | INTERSECTION CROSS PAN LAYOUT STANDARD DETAIL | DATE NOVEMBER 2020 | DETAIL 19 1 OF 2 |
|---|---|---|---|




**PLAN VIEW**

THIS AREA SHALL BE POURED MONOLITHICALLY WITH CURB AND GUTTER. THIS AREA SHALL ALSO BE THE SAME THICKNESS AND CONTAIN THE SAME REINFORCING AS THE CROSS PAN.




* SECTION ON DETAIL 19

**GENERAL NOTES**

1. EXPANSION JOINTS SHALL BE SEALED IN ACCORDANCE WITH THE LATEST CDOT M&S STANDARD PLANS.
2. REINFORCING SHALL BE CONTINUOUS FROM CROSS PAN TO APRONS AND PLACED AS SHOWN IN STANDARD DETAIL 19.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

| PARKER COLORADO | INTERSECTION CROSS PAN LAYOUT STANDARD DETAIL | DATE NOVEMBER 2020 | DETAIL 19 2 OF 2 |
|---|---|---|---|

## Section 2721

## Engineered Surface Drainage Products

**GENERAL**
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

**MATERIALS**
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

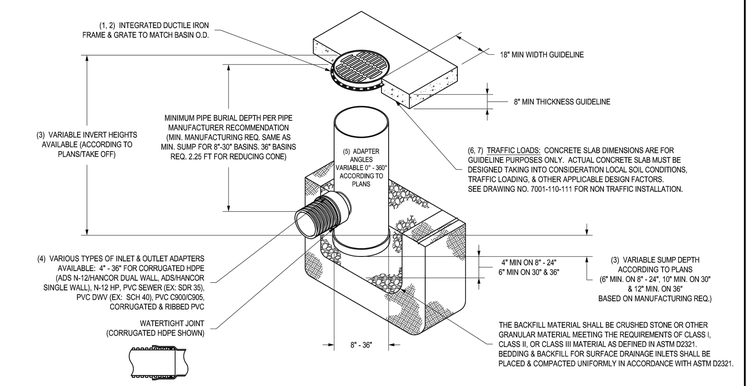
The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

**INSTALLATION**
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2013 NYLOPLAST

| | | | |
|---|---|---|---|
| DRAWN BY CJA | MATERIAL | ADS Nyloplast | 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com |
| DATE 3-10-00 | | | |
| REVISED BY NMH | PROJECT NO./NAME | TITLE | 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS |
| DATE 02-21-18 | | | |
| DWG SIZE A | SCALE 1:1 SHEET 1 OF 1 | DWG NO. | 7001-110-011 REV J |

## NYLOPLAST DRAIN BASIN WITH STANDARD GRATE




1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2011 NYLOPLAST

| | | | |
|---|---|---|---|
| DRAWN BY EBC | MATERIAL | ADS Nyloplast | 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com |
| DATE 1-23-06 | | | |
| REVISED BY NMH | PROJECT NO./NAME | TITLE | DRAIN BASIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL |
| DATE 06-12-18 | | | |
| DWG SIZE A | SCALE 1:40 SHEET 1 OF 1 | DWG NO. | 7001-110-144 REV J |

SEAL:

| NO. | BY | DATE | REVISION |
|---|---|---|---|

RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

PROJECT NO: 2243 DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 CHECKED BY: JS

ROADWAY & STORM DRAIN PLANS PREPARED FOR:
DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4
DOUGLAS COUNTY, COLORADO

STANDARD DETAILS

Know what's below. Call before you dig.

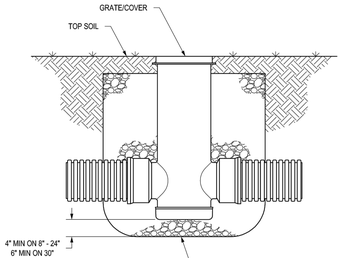
DRAWING NO. 25
SHEET NO. 25 OF 26

2ND SUBMITTAL

C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL03.dwg — plotted by: kolozard ON 2023-08-24 @ 08:49 — ctb:rec_ncs.ctb — © 2022 Rick Engineering Company

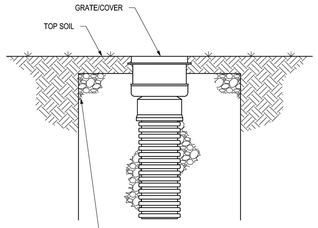
## NON TRAFFIC INSTALLATION

### DRAIN BASIN




THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

### INLINE DRAIN




THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2021 NYLOPLAST

| | | | |
|---|---|---|---|
| DRAWN BY | CJA | MATERIAL | |
| DATE | 9-30-99 | | |
| REVISED BY | NMH | PROJECT NO./NAME | |
| DATE | 03-11-16 | | |
| DWG SIZE | A | SCALE 1:25 | SHEET 1 OF 1 |

Nyloplast

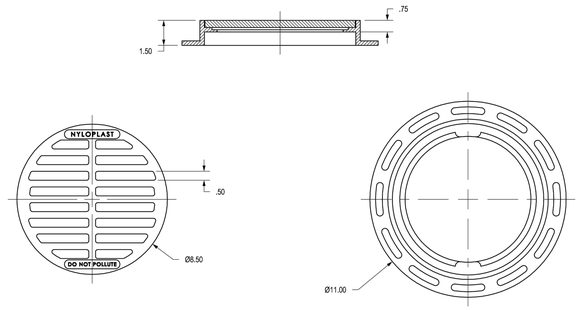
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION

DWG NO. 7001-110-111 REV E

## 0899CGSF

APPROX. DRAIN AREA = 22.53 SQ IN
APPROX. WEIGHT WITH FRAME = 7.74 LBS




DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE HAS LIGHT DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.
LOCKING DEVICE AVAILABLE UPON REQUEST

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2007 NYLOPLAST

| | | | |
|---|---|---|---|
| DRAWN BY | NMH | MATERIAL | DUCTILE IRON |
| DATE | 6-22-18 | | |
| APPD BY | NMH | PROJECT NO./NAME | |
| DATE | 6-22-18 | | |
| DWG SIZE | A | SCALE 1:4 | SHEET 1 OF 1 |

ADS Nyloplast

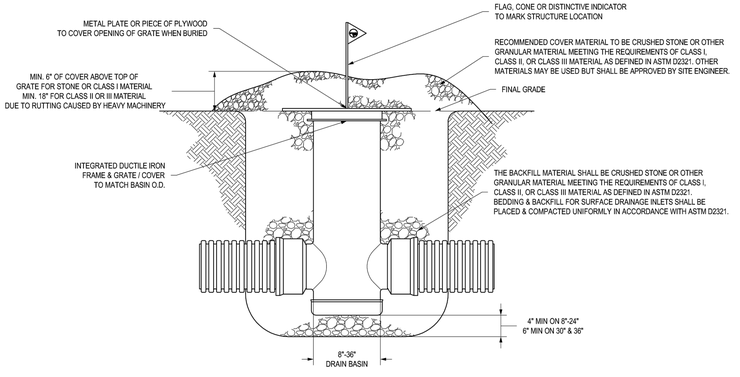
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 8 IN STANDARD GRATE ASSEMBLY - TYPE B

DWG NO. 7001-110-537 REV A

## NYLOPLAST DRAIN BASIN CONSTRUCTION PROTECTION DETAIL - OPTION 1

(BURIED STRUCTURE DETAIL)




1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. IN THE EVENT A BASIN IS DAMAGED DURING CONSTRUCTION, RISER SECTIONS CAN BE USED FOR FIELD REPAIRS.
4 - COVER MATERIAL SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION OR APPROVED BY SITE ENGINEER. MATERIAL SHALL BE ABLE TO SUPPORT VEHICLE TRAFFIC AND SHALL COVER THE STRUCTURE A MINIMUM OF 6".

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2007 NYLOPLAST

| | | | |
|---|---|---|---|
| DRAWN BY | NMH | MATERIAL | |
| DATE | 10-02-18 | | |
| APPD BY | NMH | PROJECT NO./NAME | |
| DATE | 10-02-18 | | |
| DWG SIZE | A | SCALE 1:20 | SHEET 1 OF 1 |

ADS Nyloplast

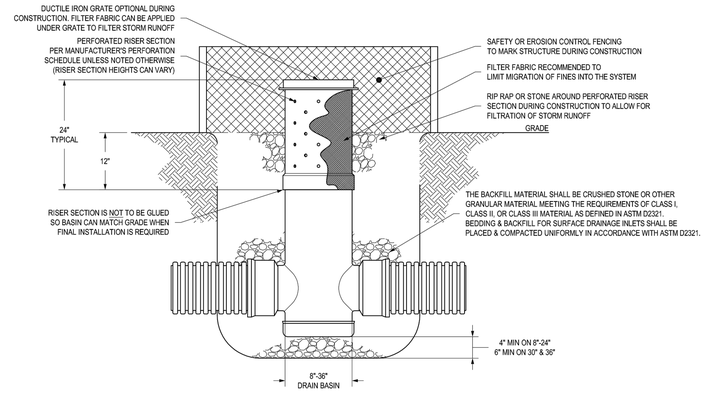
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN CONSTRUCTION PROTECTION DETAIL

DWG NO. 7001-110-552 REV A

## NYLOPLAST DRAIN BASIN CONSTRUCTION PROTECTION DETAIL - OPTION 2

(EROSION CONTROL STRUCTURE DETAIL)




1 - PERFORATED RISER SECTION IS TO BE REMOVED AND REPLACED WITH SOLID RISER FOLLOWING THE FINAL SITE GRADING. IF THE PERFORATED RISER SECTIONS ARE DAMAGED DURING CONSTRUCTION, THEY CAN BE EASILY REPLACED WITH MINIMAL DAMAGE TO MAIN BASIN BODY / BASE SECTION.
2 - FRAMES & GRATES/SOLID COVERS ARE TO BE INSTALLED ONCE EROSION CONTROL STRUCTURE IS NO LONGER NEEDED.
3 - PERFORATION SCHEDULE WILL MEET NYLOPLAST SPECIFICATIONS OUTLINED IN DRAWING 7001-110-008 UNLESS NOTED OTHERWISE.
4 - DRAIN BASIN TO BE CUSTOM MANUFACTURES ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. IN THE EVENT A BASIN IS DAMAGED DURING CONSTRUCTION, RISER SECTIONS CAN BE USED FOR FIELD REPAIRS.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2007 NYLOPLAST

| | | | |
|---|---|---|---|
| DRAWN BY | NMH | MATERIAL | |
| DATE | 10-02-18 | | |
| APPD BY | NMH | PROJECT NO./NAME | |
| DATE | 10-02-18 | | |
| DWG SIZE | A | SCALE 1:20 | SHEET 1 OF 1 |

ADS Nyloplast

3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: CONSTRUCTION EROSION CONTROL DRAIN BASIN DETAIL

DWG NO. 7001-110-553 REV A

| NO. | BY | DATE | REVISION |
|---|---|---|---|
| | | | |

SEAL:

RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020
rickengineering.com
San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

PROJECT NO: 2243 DRAWN/DESIGNED BY: KA/JS
DATE: 8/24/2023 CHECKED BY: JS

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

# DOUGLAS 234, FILING NO. 6, AMENDMENT 1, LOT 4

DOUGLAS COUNTY, COLORADO

## STANDARD DETAILS

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

DRAWING NO. 26
SHEET NO. 26 OF 26

2ND SUBMITTAL

C:\RICK\Projects\D02000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DTL03.dwg — plotted by: kalozard ON 2023-08-24 @ 08:49 — ctb:rec_rncs.ctb — © 2022 Rick Engineering Company