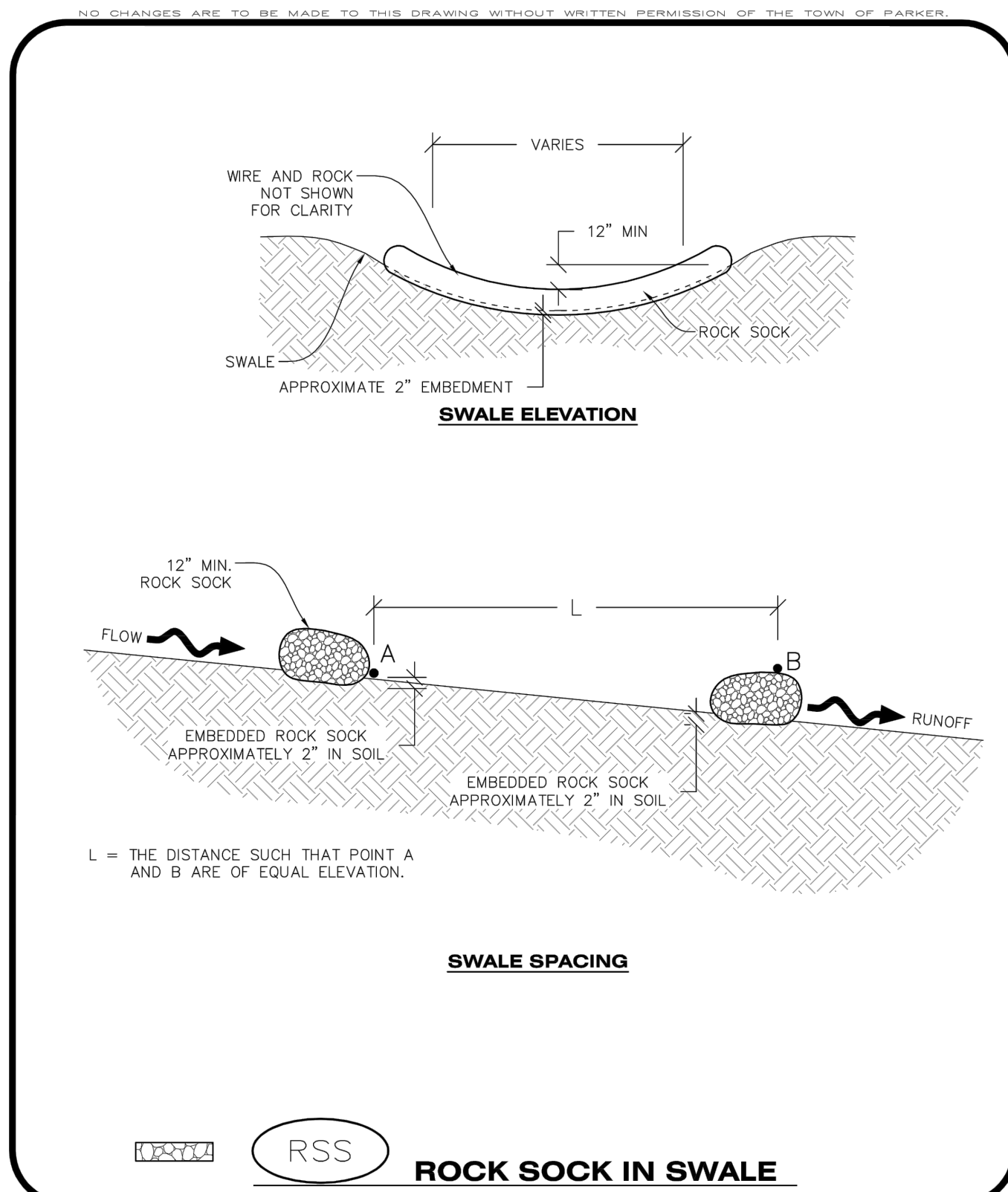


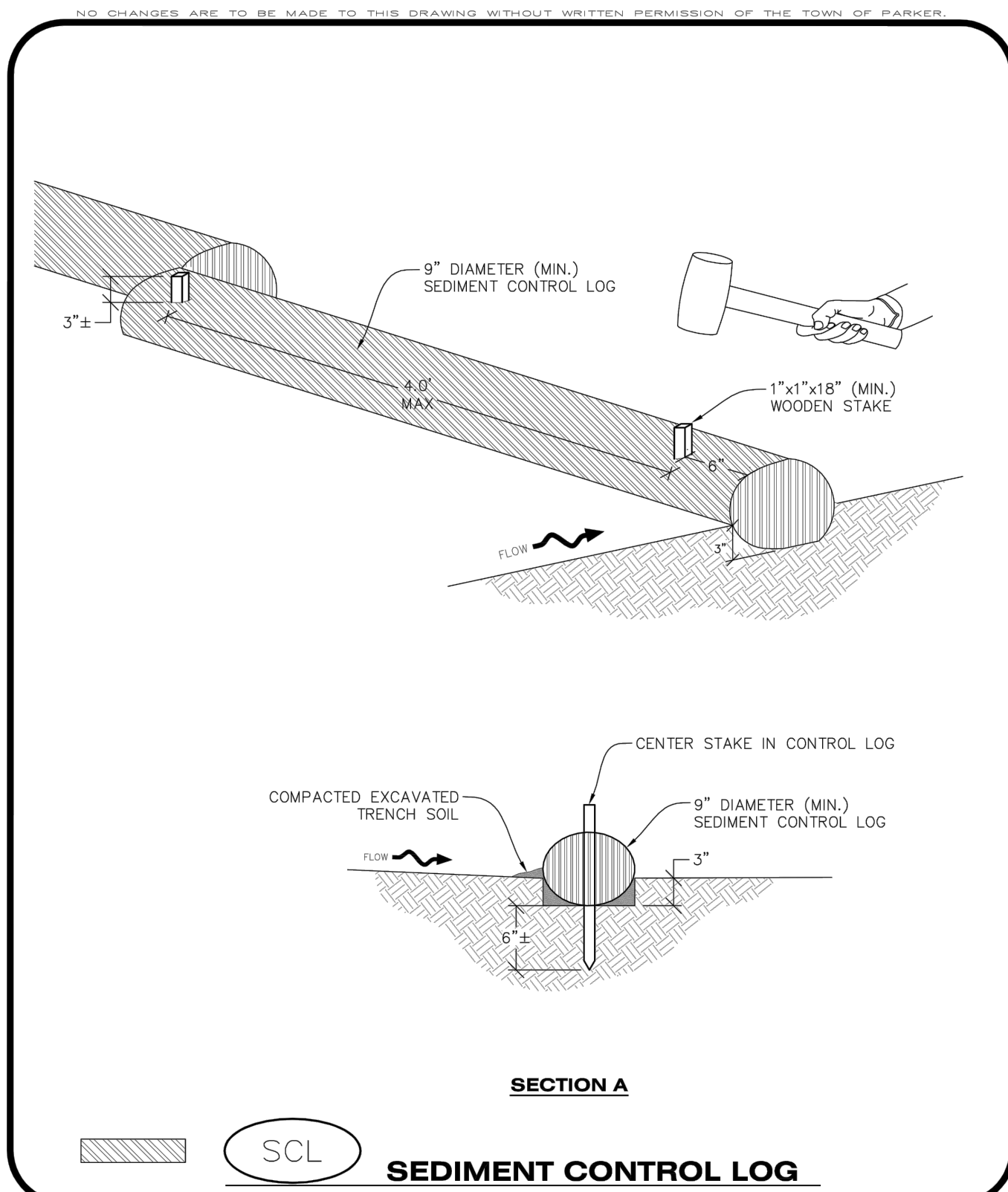
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CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES

RSS ROCK SOCK IN SWALE

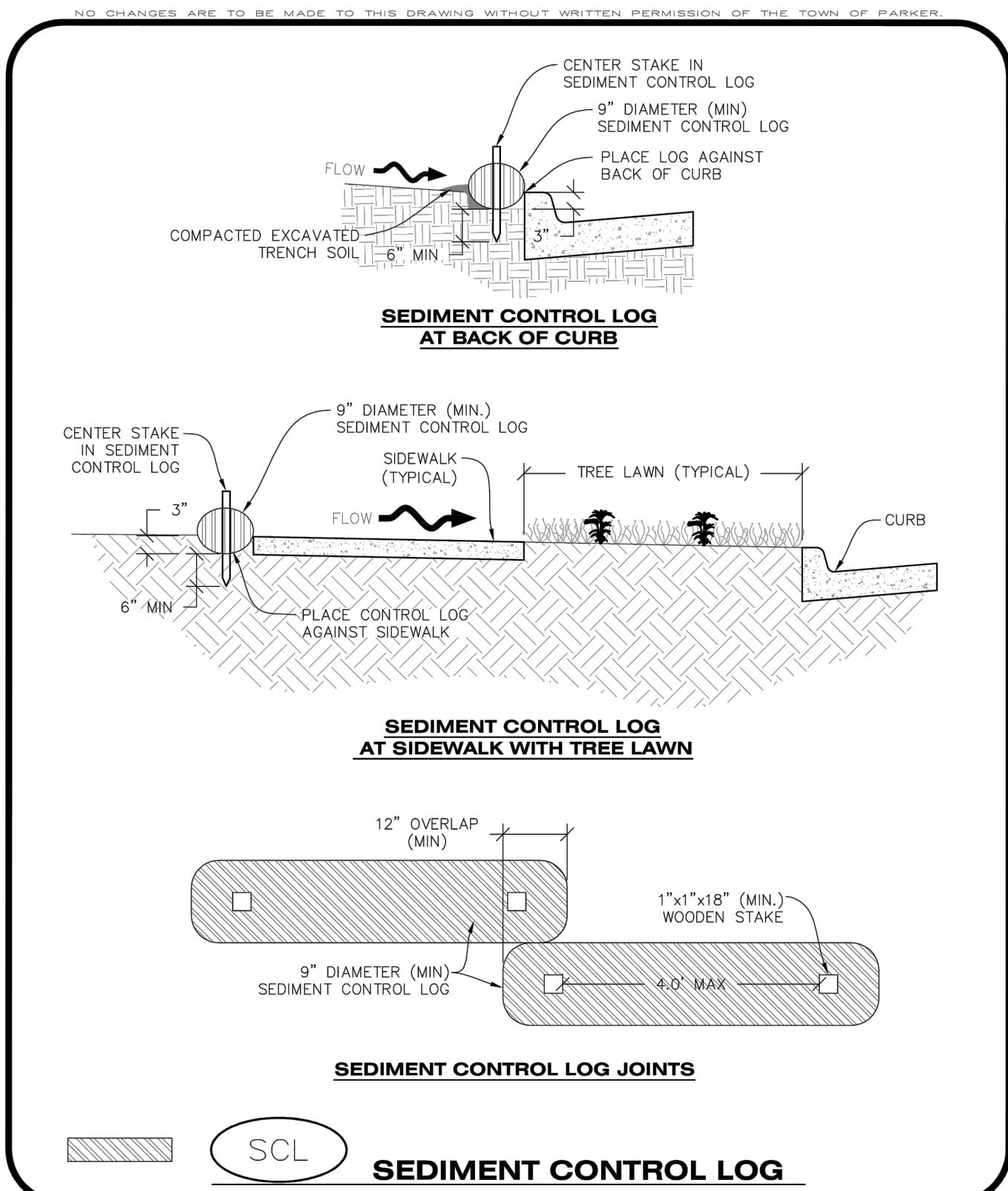
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Oct. 2013



CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES

SCL SEDIMENT CONTROL LOG

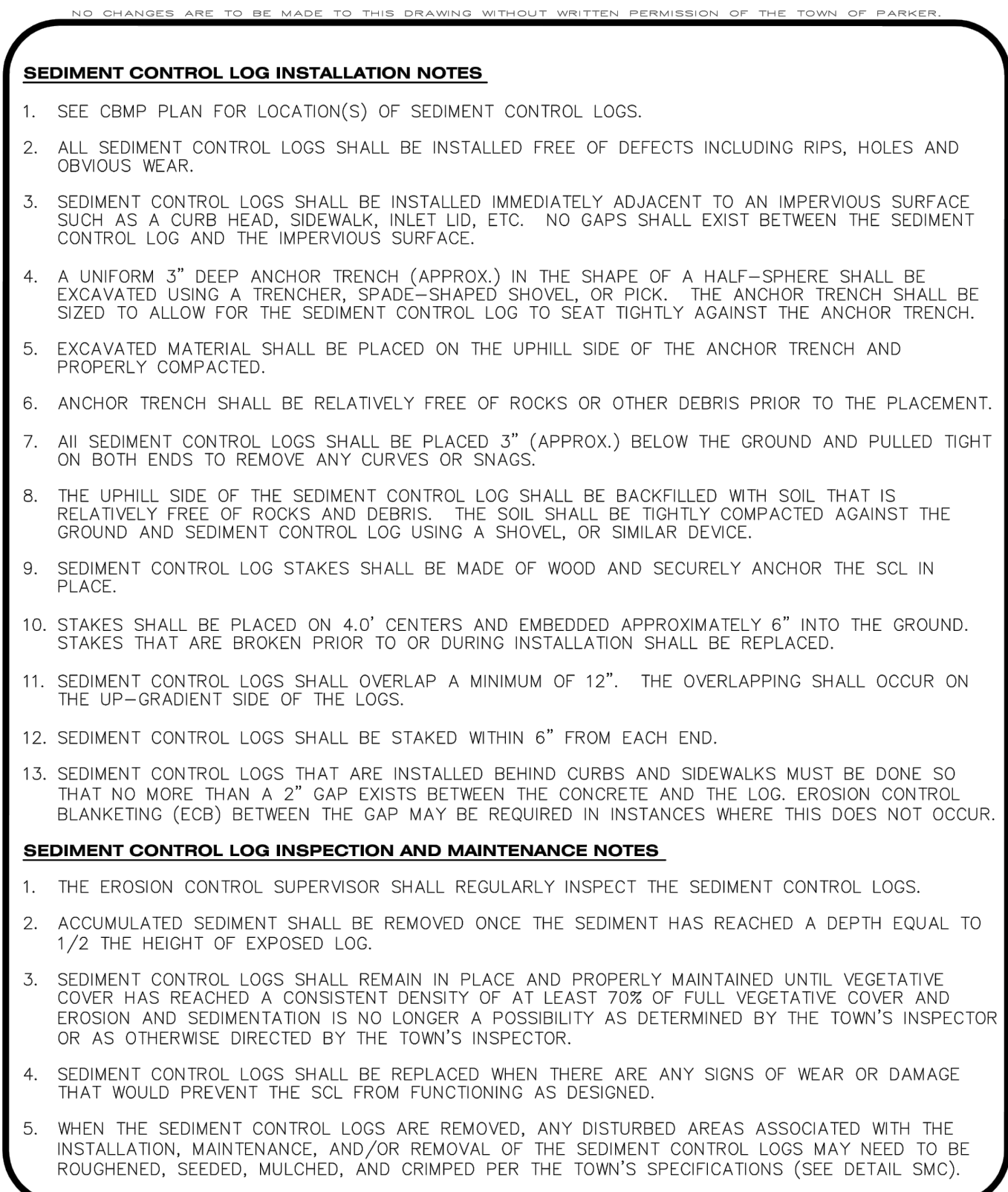
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Oct. 2013



CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES

SCL SEDIMENT CONTROL LOG

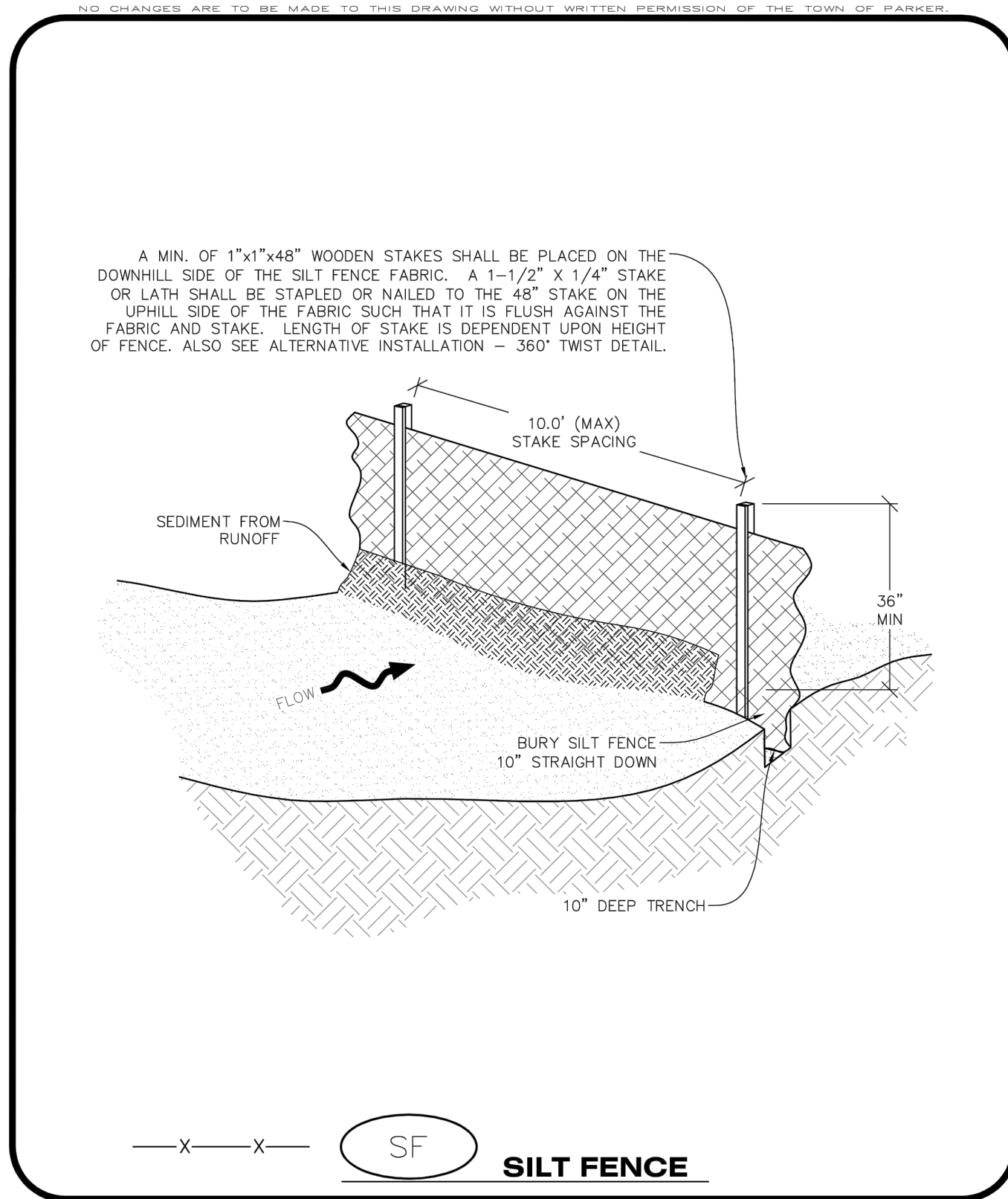
2 OF 3
Oct. 2013



CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES

SCL SEDIMENT CONTROL LOG

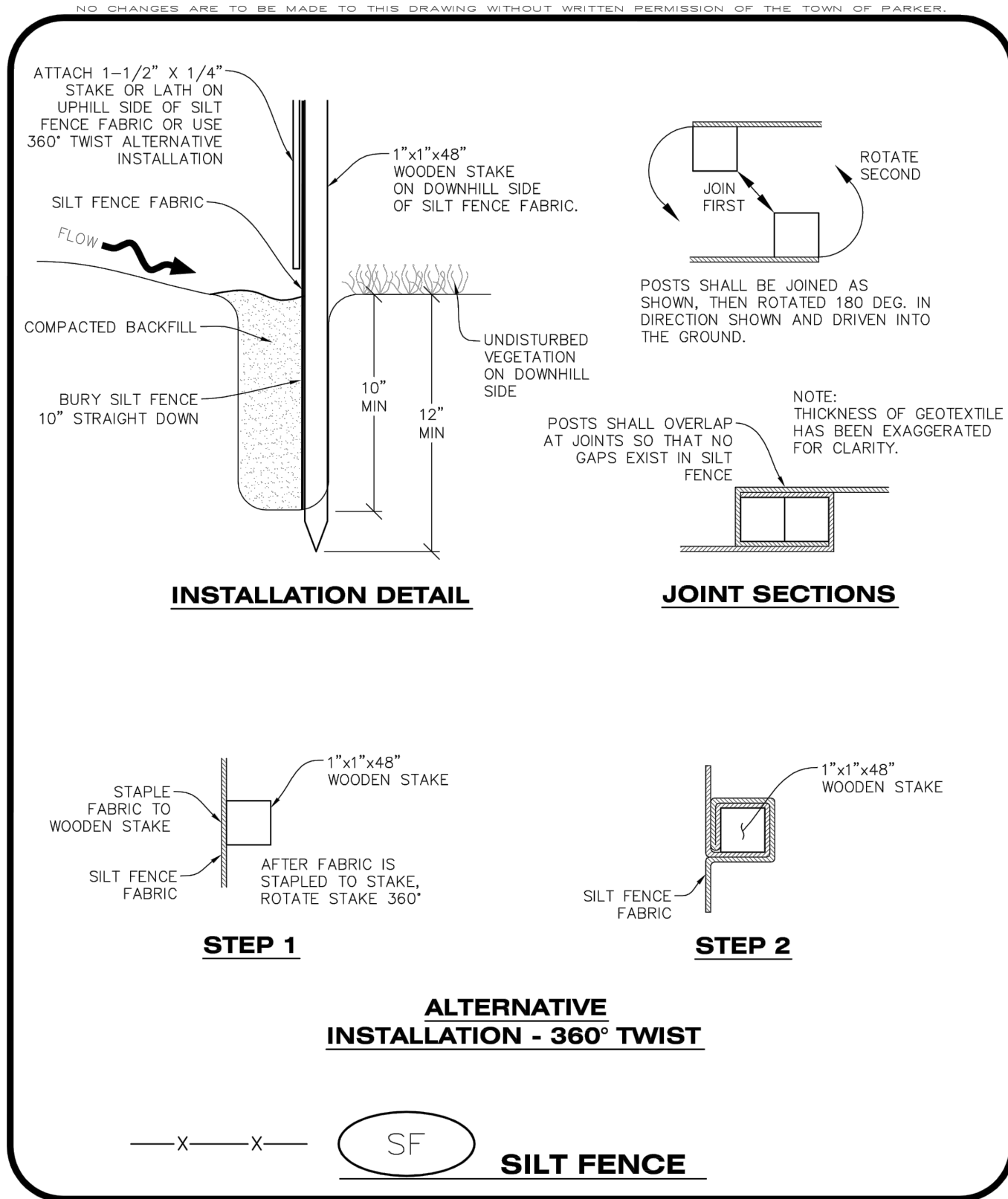
3 OF 3
Oct. 2013



CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES

SF SILT FENCE

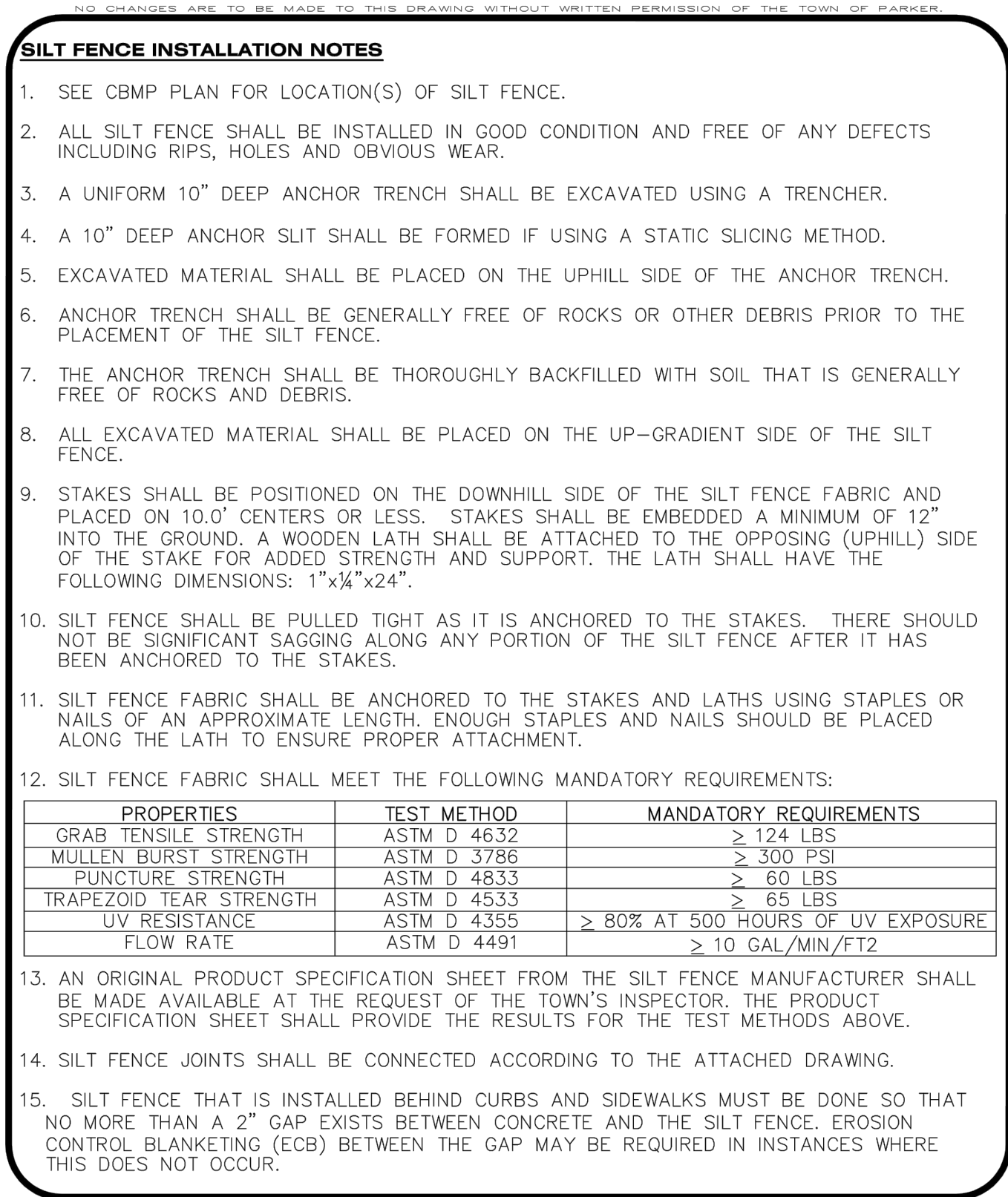
1 OF 4
Oct. 2013



CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES

SF SILT FENCE

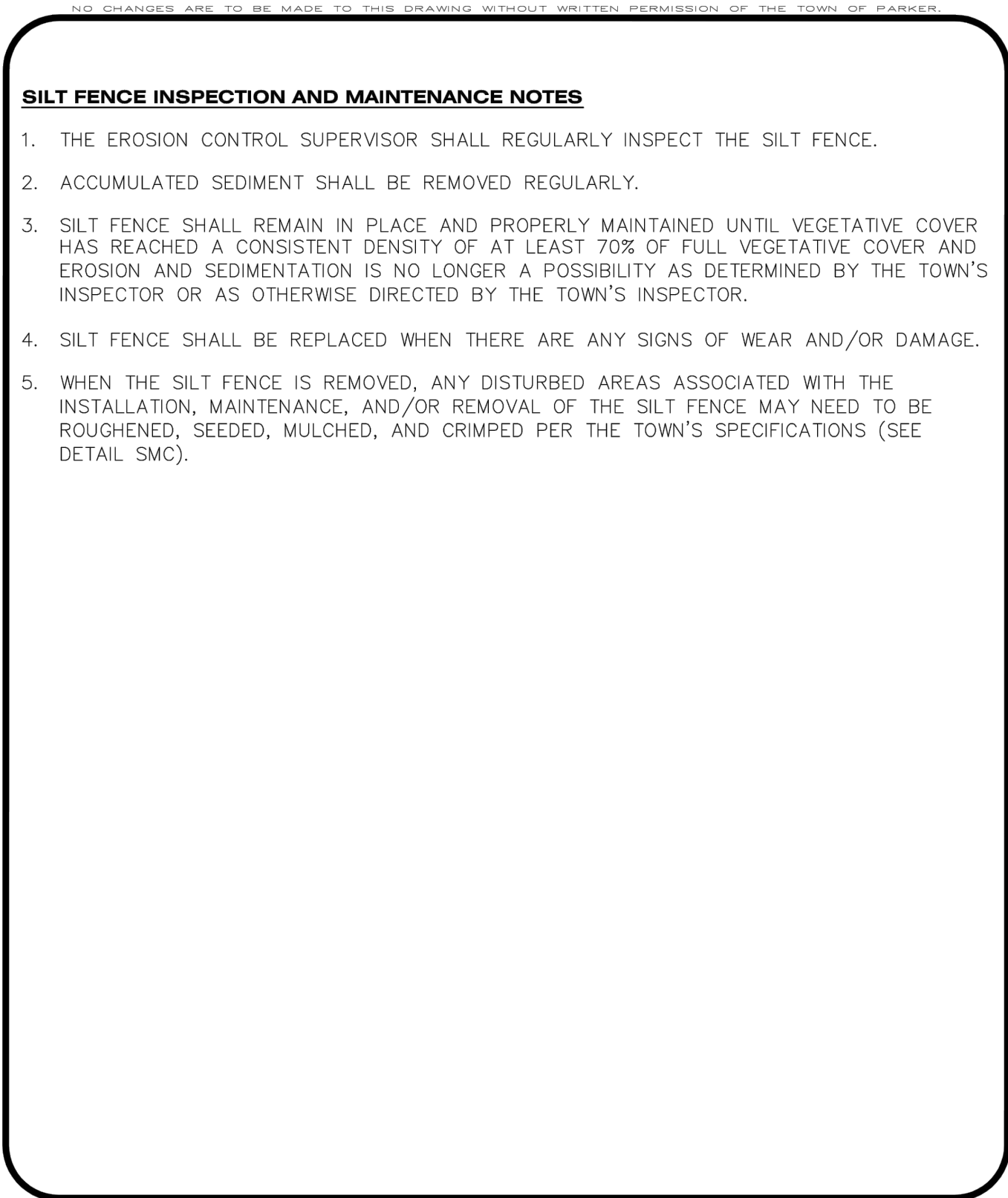
2 OF 4
Oct. 2013



CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES

SF SILT FENCE

3 OF 4
Oct. 2013



CBMP CONSTRUCTION BEST MANAGEMENT PRACTICES

SF SILT FENCE

4 OF 4
Oct. 2013

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.

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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

NO.	BY	DATE	REVISION

SEAL:

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

RICK
ENGINEERING COMPANY

San Diego - Riverside - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

PROJECT NO: 2243 DRAWN/DESIGNED BY: KAJ/JS
DATE: 3/29/2022 CHECKED BY: JS

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

CBMP DETAILS

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DRAWING NO. 16
SHEET NO. 16 OF 23

TST SUBMITTAL

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

- SEE PLAN VIEW FOR:
 - LOCATION(S) OF SEEDING AND MULCHING
 - TYPE OF SEED MIX
- 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.
- SEEDING MAY BE PERFORMED YEAR ROUND ASSUMING THE SOIL IS NOT FROZEN. SEEDING DURING TIMES OF EXTREME TEMPERATURES SHOULD BE AVOIDED IF POSSIBLE.
- 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.
- 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.
- ALL AREAS TO BE SEED AND MULCHED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING DETAILS AND NOTES. SURFACE ROUGHENING SHALL OCCUR AFTER PLACEMENT OF THE TOPSOIL.
- WHEN INSTALLED WITH A DRILL SEEDER, SEED SHALL BE PLACED AT A DEPTH OF 1/4 - 1/2 INCH. ROW SPACING SHALL BE NO MORE THAN 6-INCHES.
- ALL AREAS INCAPABLE OF BEING DRILL SEEDER 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 SEEDER 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 1/4 - 1/2 INCH.
- 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.
- 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.

CBMP | **SMC**
CONSTRUCTION BEST MANAGEMENT PRACTICES | 1 OF 3
OCT. 2013

SEEDING AND MULCHING MAINTENANCE NOTES

- THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEEDING AND MULCHING.
 - ANY SEEDED AND MULCHED AREAS THAT BECOME DAMAGED SHALL BE REPAIRED WITHIN THE TIME FRAME SPECIFIED BY THE TOWN'S INSPECTOR.
- WEED MANAGEMENT**
- 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.
 - 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.
 - HERBICIDES SHALL BE APPLIED DURING THE APPROPRIATE SEASONS, WHEN TARGET PLANTS ARE ACTIVELY GROWING.
 - 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.
 - 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.

CBMP | **SMC**
CONSTRUCTION BEST MANAGEMENT PRACTICES | 2 OF 3
OCT. 2013

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% SIDOATS 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

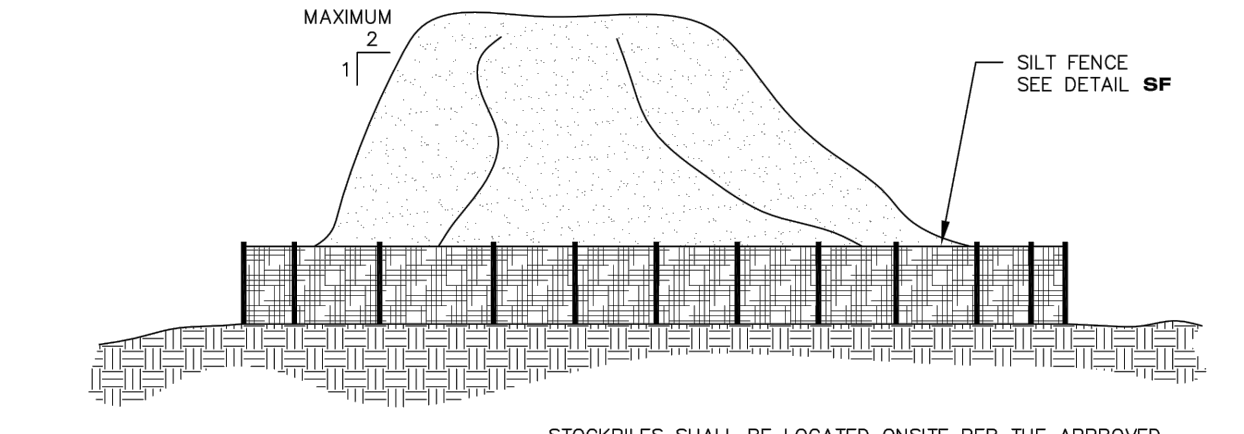
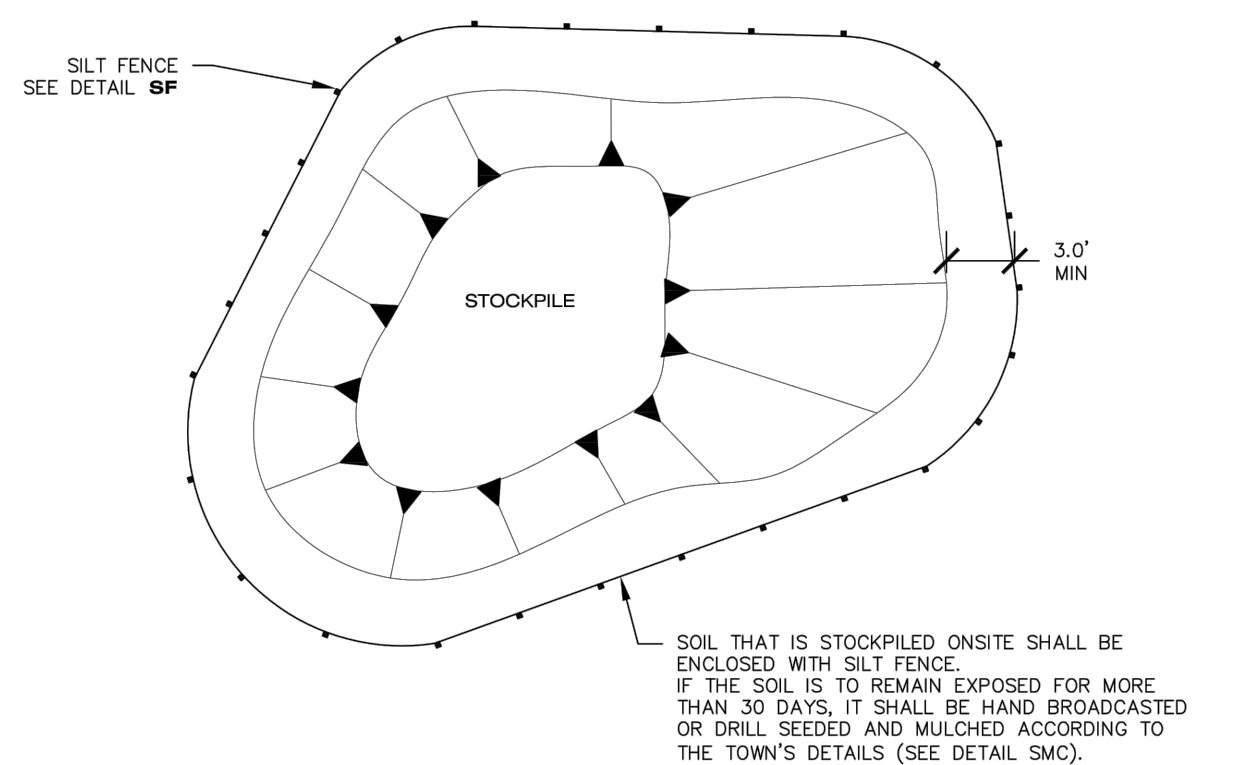
SEEDING RATE:
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

- 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

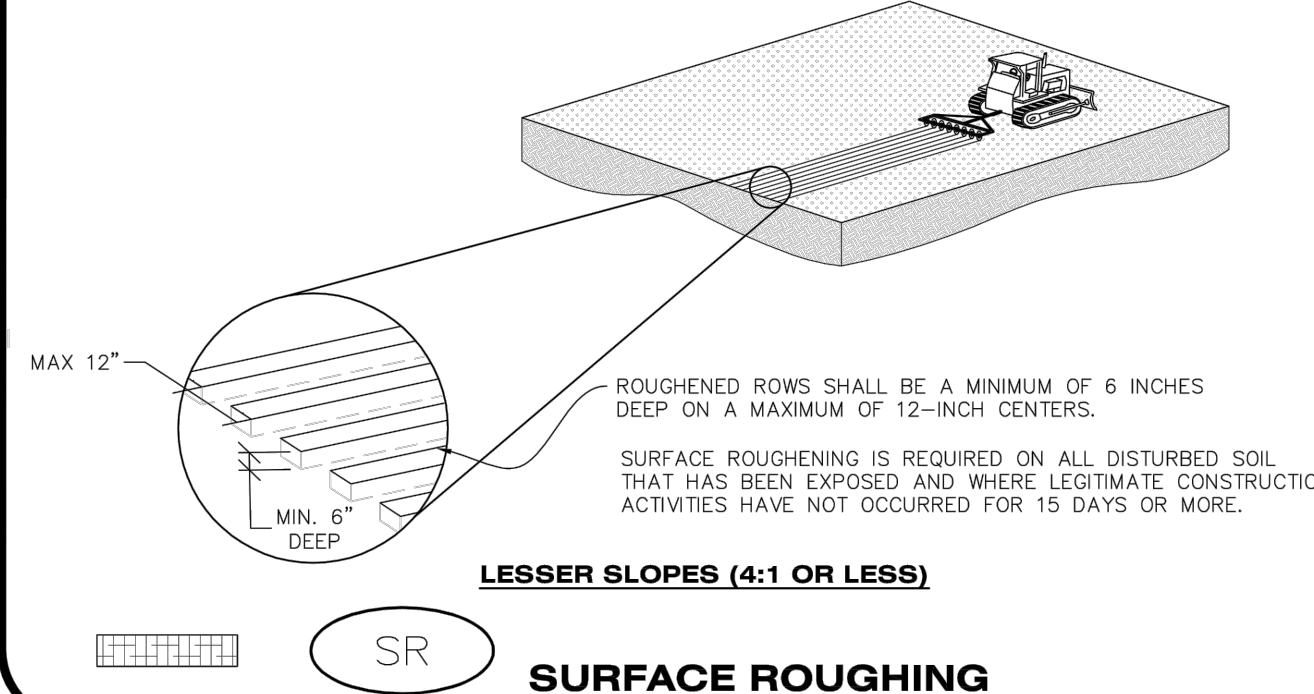
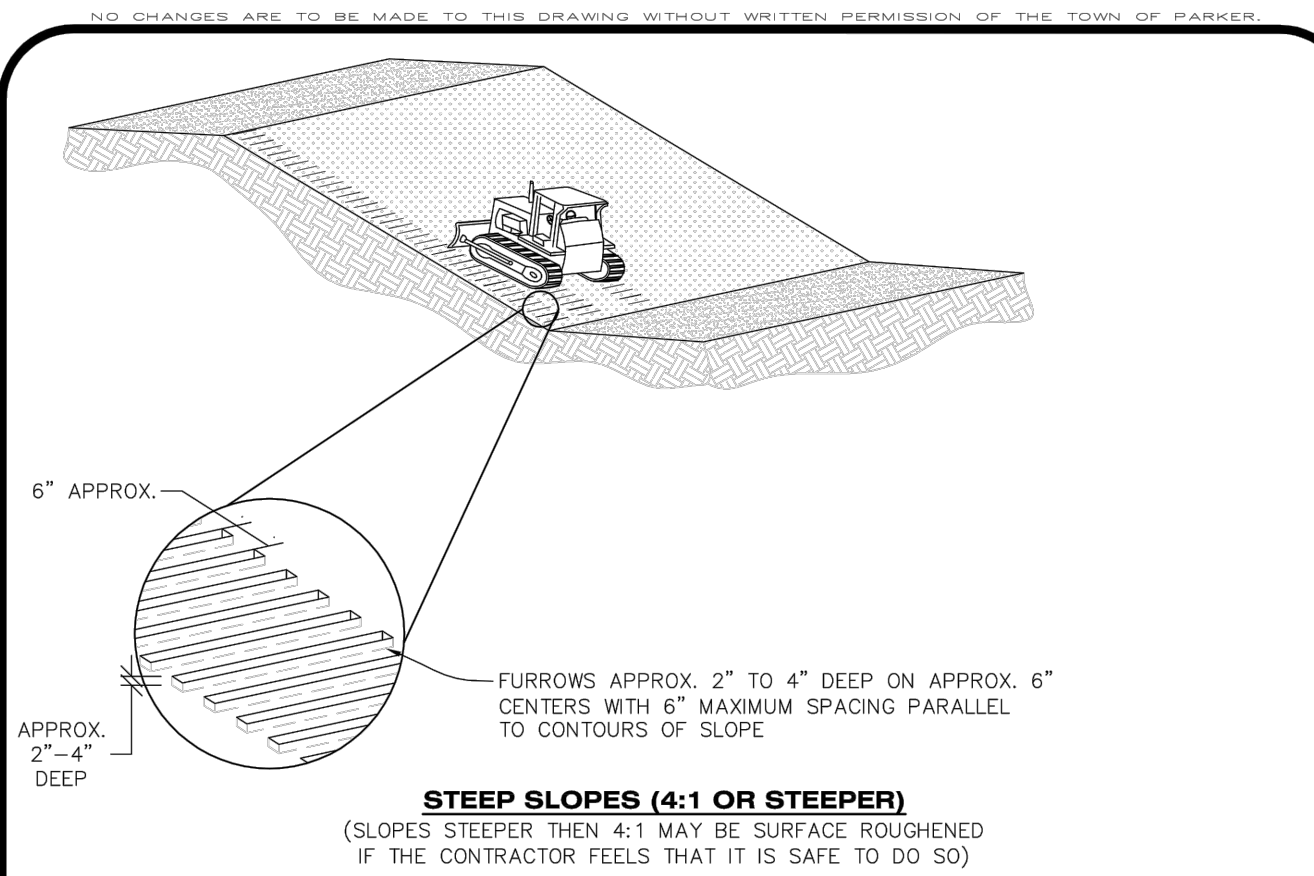
SEEDING RATE:
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

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

CBMP | **SMC**
CONSTRUCTION BEST MANAGEMENT PRACTICES | 3 OF 3
OCT. 2013



CBMP | **SP**
CONSTRUCTION BEST MANAGEMENT PRACTICES | JUNE 2006



CBMP | **SR**
CONSTRUCTION BEST MANAGEMENT PRACTICES | 1 OF 2
OCT. 2013

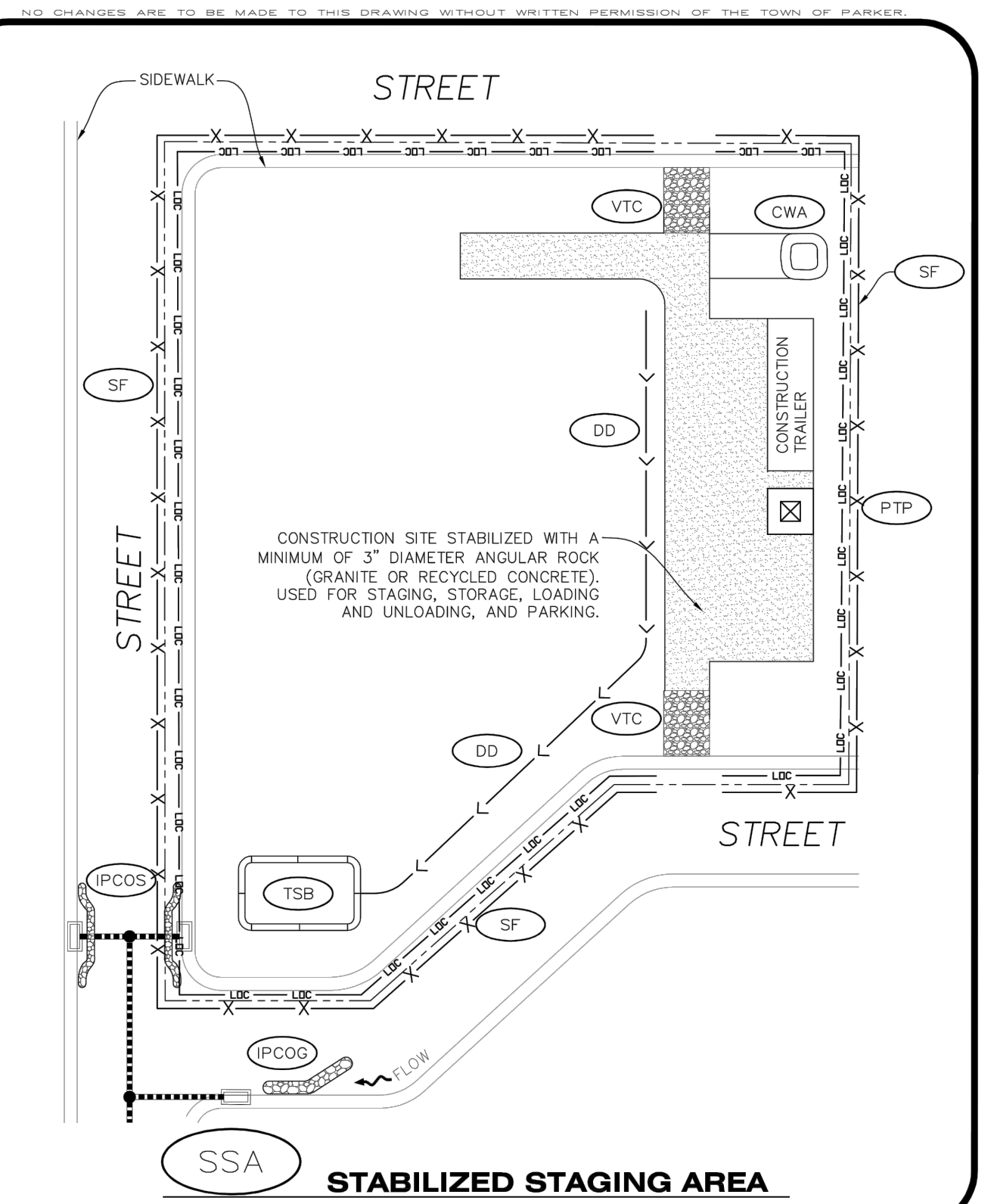
SURFACE ROUGHENING INSTALLATION NOTES

- SEE CBMP PLAN FOR LOCATION(S) OF SURFACE ROUGHENING.
- DISTURBED AREAS THAT REMAIN INACTIVE FOR 15 DAYS OR MORE MUST RECEIVE SURFACE ROUGHENING OR ANOTHER APPROVED BMP FROM THE SDCM. DETERMINATION OF JOB SITE INACTIVITY IS AT THE DISCRETION OF THE TOWN'S INSPECTOR.
- FOR STEEP SLOPES (3:1 OR STEEPER), IT IS ACCEPTABLE TO "TRACK" THE SLOPES, ACCORDING TO THE CBMP DETAILS.
- 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

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

CBMP | **SR**
CONSTRUCTION BEST MANAGEMENT PRACTICES | 2 OF 2
OCT. 2013



CBMP | **SSA**
CONSTRUCTION BEST MANAGEMENT PRACTICES | 1 OF 2
OCT. 2013

STABILIZED STAGING AREA INSTALLATION NOTES

- SEE CBMP PLAN FOR LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH TOWN APPROVAL.
- STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN PARKING, STORAGE, AND LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" DIAMETER OF ANGULAR ROCK (GRANITE OR RECYCLED CONCRETE).
- 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

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

CBMP | **SSA**
CONSTRUCTION BEST MANAGEMENT PRACTICES | 2 OF 2
OCT. 2013

TOWN OF PARKER APPROVALS

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NO.	BY	DATE	REVISION

SEAL: **ENGINEERING COMPANY**
PROJECT NO: 2243 | DRAWN/DESIGNED BY: KA/JS
DATE: 3/29/2022 | CHECKED BY: JS
8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
rickengineering.com
rick@rickeng.com
303.537.8020
San Diego - Riverside - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

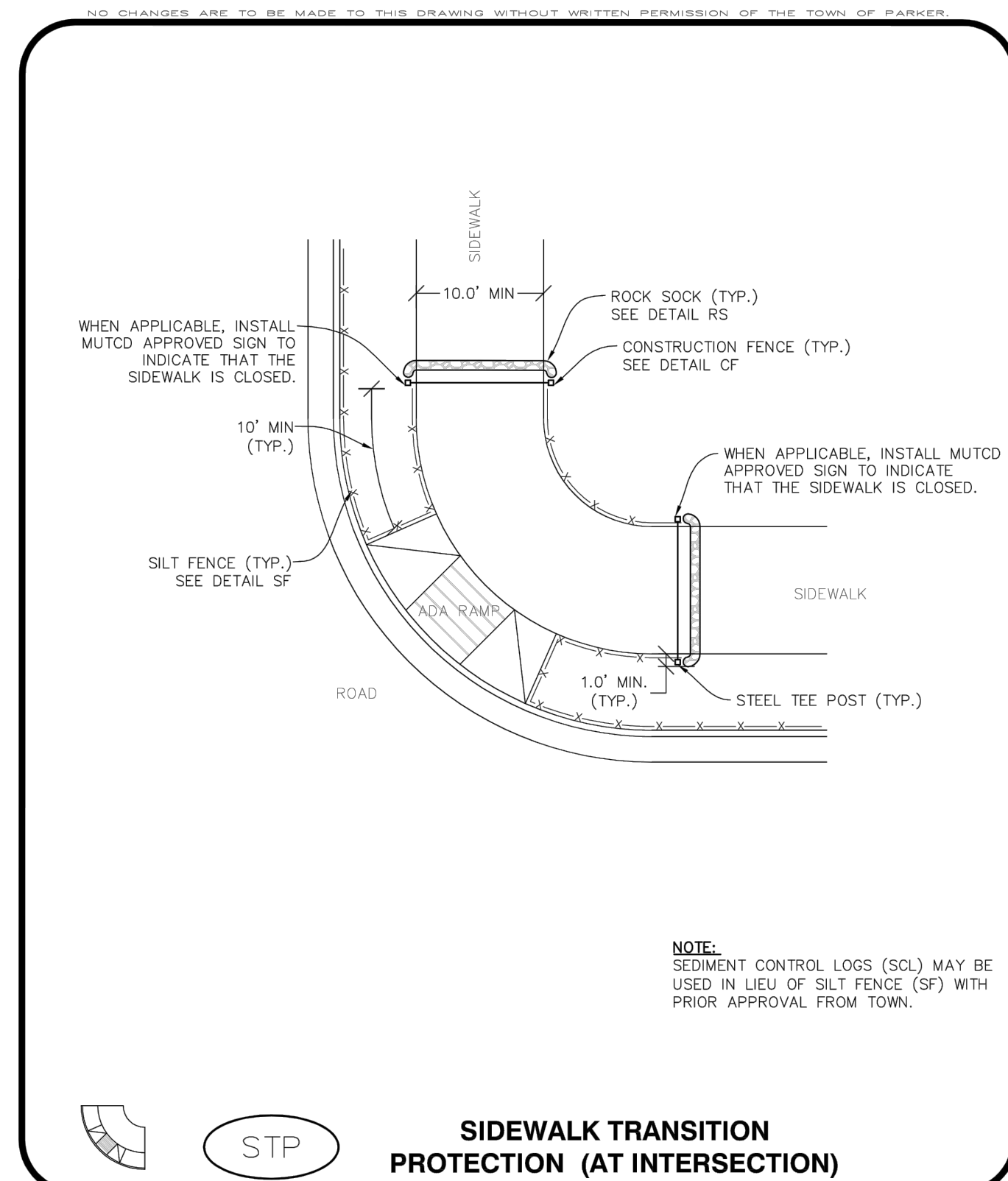
ROADWAY & STORM DRAIN PLANS PREPARED FOR:
**DOUGLAS 234, FILING NO. 6,
AMENDMENT 1, LOT 4**
DOUGLAS COUNTY, COLORADO
CBMP DETAILS

811
Know what's below.
Call before you dig.
DRAWING NO. 17
SHEET NO. 17 OF 23

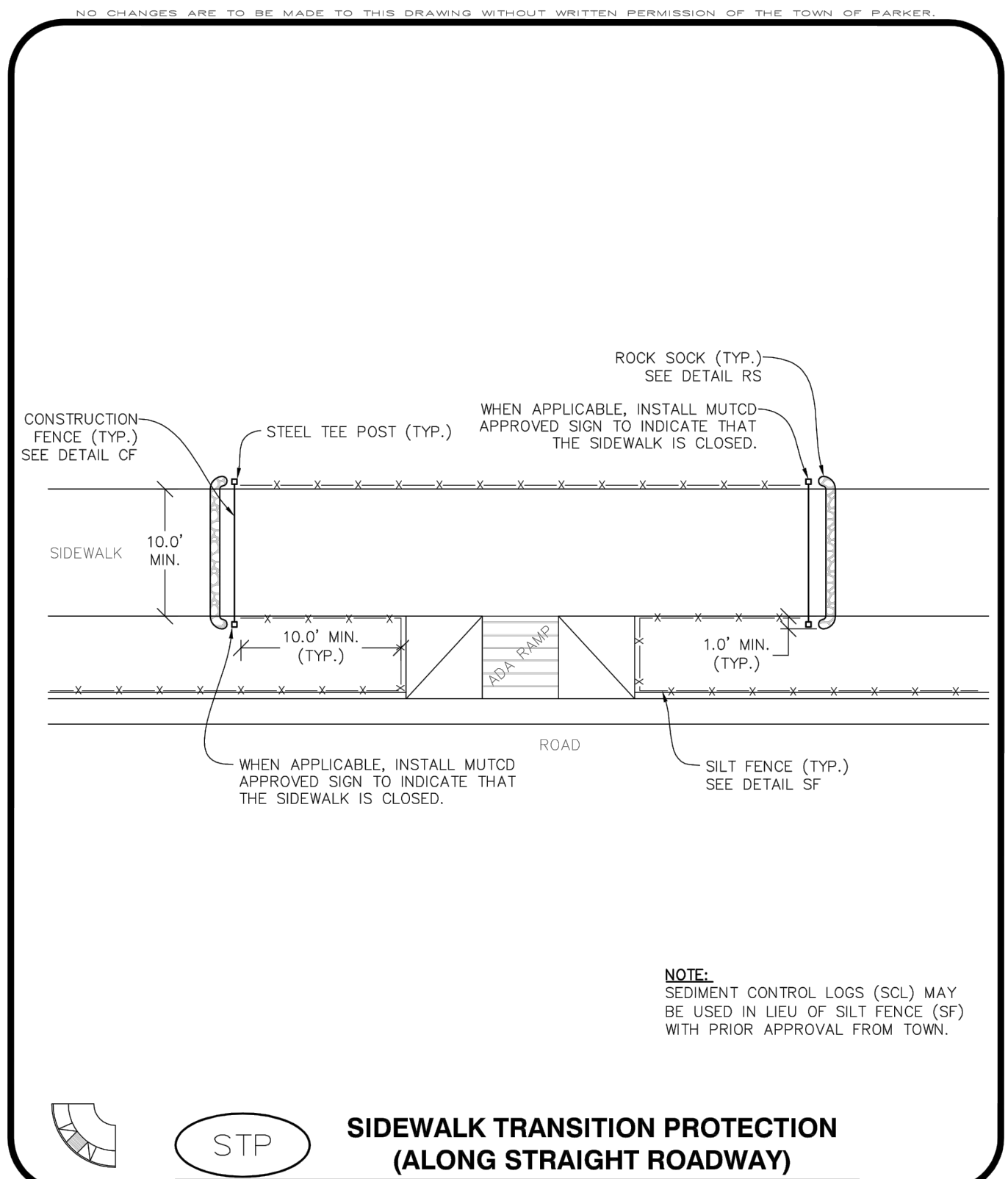
1ST SUBMITTAL

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STP | **SIDWALK TRANSITION PROTECTION (AT INTERSECTION)** | **CBMP** | **CONSTRUCTION BEST MANAGEMENT PRACTICES** | **STP** | 1 OF 3 | Oct. 2013



STP | **SIDWALK TRANSITION PROTECTION (ALONG STRAIGHT ROADWAY)** | **CBMP** | **CONSTRUCTION BEST MANAGEMENT PRACTICES** | **STP** | 2 OF 3 | Oct. 2013

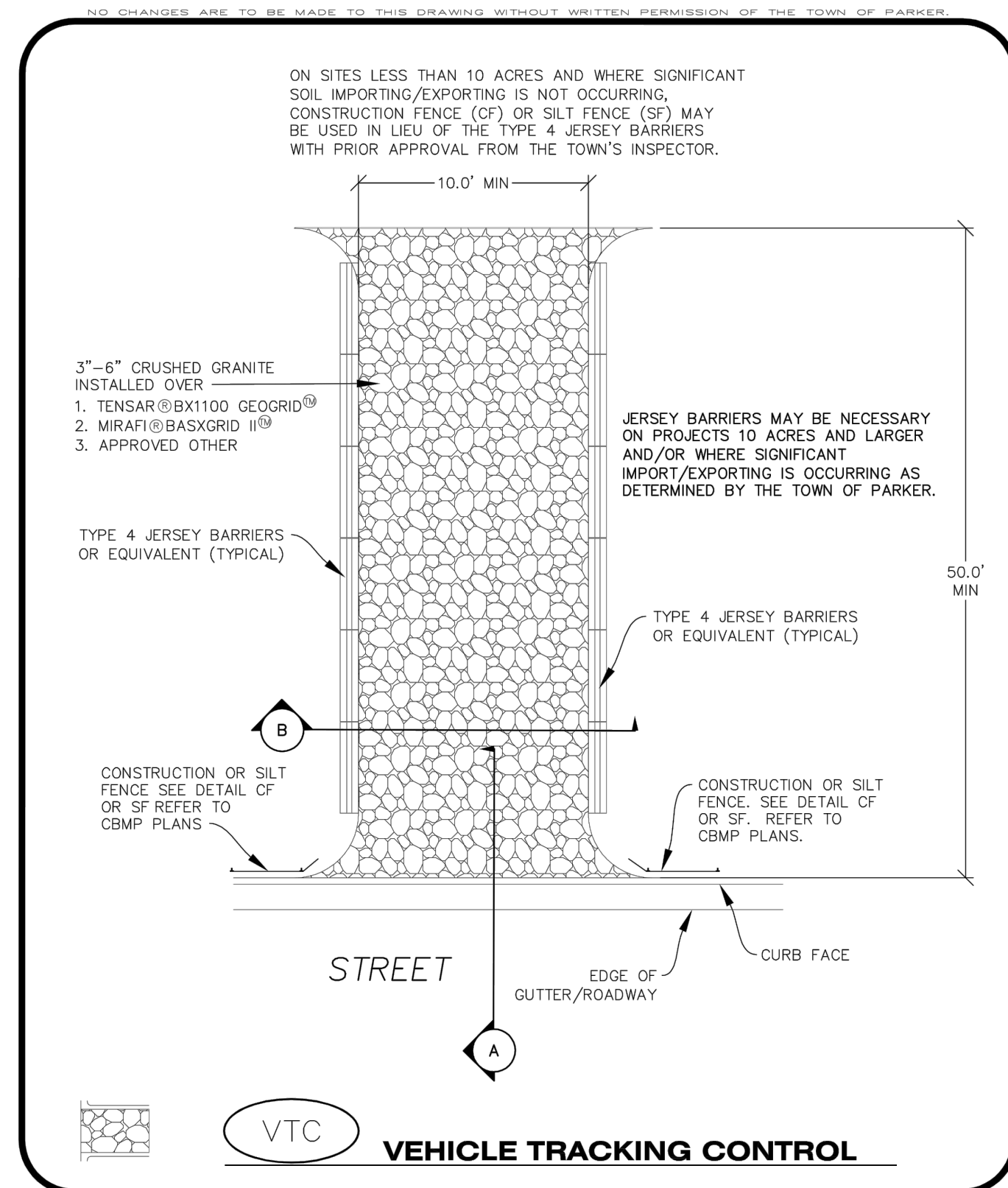
SIDWALK TRANSITION PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR LOCATION(S) OF SIDWALK TRANSITION PROTECTION.
- ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
- SILT FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL SF).
- CONSTRUCTION FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL CF).
- SEDIMENT CONTROL LOGS MAY BE USED IN LIEU OF SILT FENCE WITH PRIOR APPROVAL FROM THE TOWN.

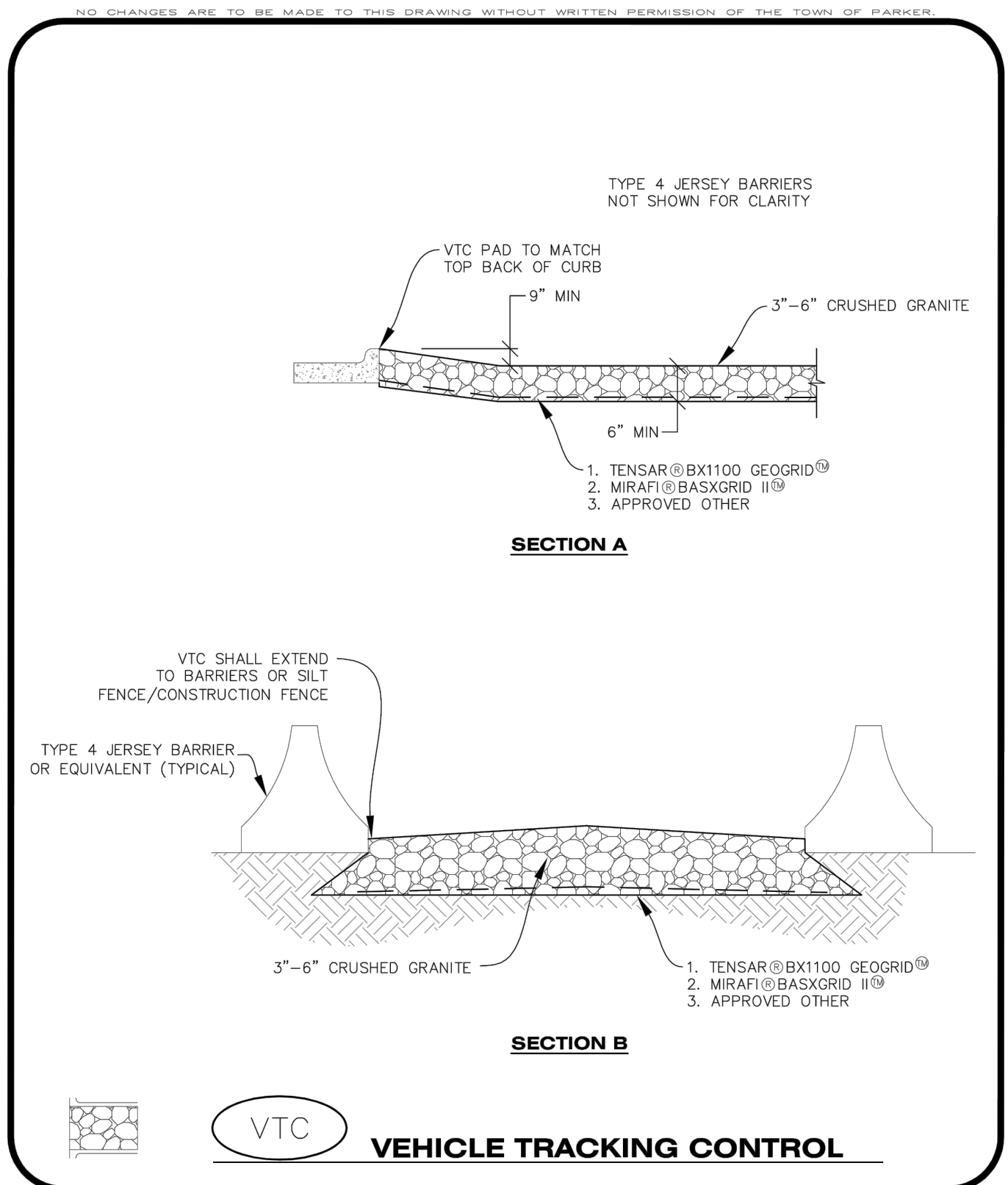
SIDWALK TRANSITION PROTECTION INSPECTION & MAINTENANCE NOTES

- THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SIDWALK TRANSITION INSPECTION.

STP | **SIDWALK TRANSITION PROTECTION (AT INTERSECTION)** | **CBMP** | **CONSTRUCTION BEST MANAGEMENT PRACTICES** | **STP** | 3 OF 3 | Oct. 2013



VTC | **VEHICLE TRACKING CONTROL** | **CBMP** | **CONSTRUCTION BEST MANAGEMENT PRACTICES** | **VTC** | 1 OF 3 | Oct. 2013



VTC | **VEHICLE TRACKING CONTROL** | **CBMP** | **CONSTRUCTION BEST MANAGEMENT PRACTICES** | **VTC** | 2 OF 3 | Oct. 2013

VEHICLE TRACKING CONTROL PAD INSTALLATION NOTES

- SEE CBMP PLAN FOR LOCATION(S) OF VEHICLE TRACKING CONTROL PAD(S).
- 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.
- THE VEHICLE TRACKING CONTROL PAD(S) INDICATED ON CBMP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- VEHICLE TRACKING CONTROL PADS SHALL BE A MINIMUM OF 50-FOOT LONG AND 10-FOOT WIDE, UNLESS A VARIANCE HAS BEEN GRANTED BY THE TOWN'S INSPECTOR.
- 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.
- CRUSHED ROCK SHALL BE A MINIMUM OF 3-6" GRANITE WITH A FRACTURED FACE (ALL SIDES).

VEHICLE TRACKING CONTROL PAD INSTALLATION AND MAINTENANCE NOTES

- THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE VEHICLE TRACKING CONTROL PAD.
- 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).
- THE VEHICLE TRACKING CONTROL PAD SHALL BE MAINTAINED SUCH THAT THE ROCK REMAINS RELATIVELY LOOSE AND ACCUMULATED MUD AND OTHER DEBRIS IS REGULARLY REMOVED.

VTC | **VEHICLE TRACKING CONTROL** | **CBMP** | **CONSTRUCTION BEST MANAGEMENT PRACTICES** | **VTC** | 3 OF 3 | Oct. 2013

TOWN OF PARKER APPROVALS

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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

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

SEAL: _____
 PROJECT NO: 2243 | DRAWN/DESIGNED BY: KAJS | CHECKED BY: JS
 DATE: 3/29/2022

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

DRAWING NO. **18**
 SHEET NO. 18 OF 23

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

Computer File Information: Creation Date: 07/31/19, Designer: JKB, Last Modification Date: 07/31/19, Detailer: LTA, CAD Ver: MicroStation V8.

Sheet Revisions: [Table with columns for Date, Comments, and Revisions]

Colorado Department of Transportation: 2829 West Howard Place, COOT HO, 3rd Floor, Denver, CO 80204, Phone: 303-757-9021, Fax: 303-757-9868.

Project Development Branch: JKB

Issued by the Project Development Branch: July 31, 2019

Project Sheet Number: [Blank]

MANHOLES
STANDARD PLAN NO. M-604-20
Standard Sheet No. 2 of 3

Computer File Information: Creation Date: 07/31/19, Designer: JKB, Last Modification Date: 07/31/19, Detailer: LTA, CAD Ver: MicroStation V8.

Sheet Revisions: [Table with columns for Date, Comments, and Revisions]

Colorado Department of Transportation: 2829 West Howard Place, COOT HO, 3rd Floor, Denver, CO 80204, Phone: 303-757-9021, Fax: 303-757-9868.

Project Development Branch: JKB

Issued by the Project Development Branch: July 31, 2019

Project Sheet Number: [Blank]

MANHOLES
STANDARD PLAN NO. M-603-2
Standard Sheet No. 1 of 1

Computer File Information: Creation Date: 07/31/19, Designer: JKB, Last Modification Date: 07/31/19, Detailer: LTA, CAD Ver: MicroStation V8.

Sheet Revisions: [Table with columns for Date, Comments, and Revisions]

Colorado Department of Transportation: 2829 West Howard Place, COOT HO, 3rd Floor, Denver, CO 80204, Phone: 303-757-9021, Fax: 303-757-9868.

Project Development Branch: JKB

Issued by the Project Development Branch: July 31, 2019

Project Sheet Number: [Blank]

REINFORCED CONCRETE PIPE
STANDARD PLAN NO. M-603-2
Standard Sheet No. 1 of 1

Computer File Information: Creation Date: 07/31/19, Designer: JKB, Last Modification Date: 07/31/19, Detailer: LTA, CAD Ver: MicroStation V8.

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Colorado Department of Transportation: 2829 West Howard Place, COOT HO, 3rd Floor, Denver, CO 80204, Phone: 303-757-9021, Fax: 303-757-9868.

Project Development Branch: JKB

Issued by the Project Development Branch: July 31, 2019

Project Sheet Number: [Blank]

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

8678 CONCORD CENTER DR, UNIT 200
ENGLEWOOD, CO 80112
303.537.8020

STANDARD DETAILS

2243 DRAWN/DESIGNED BY: KAJ/JS
3/29/2022 CHECKED BY: JS

PROJECT NO: [Blank]
DATE: [Blank]

SEAL: [Blank]

NO. BY DATE REVISION

19
SHEET NO. 19 OF 23

TOWN OF PARKER, DIRECTOR OF ENGINEERING

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.

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C:\RICK\Projects\002000\2243_DunkinDonuts\Civil\PlanSets\Road and Storm Drain Construction Plans\2243-C-DT103.dwg - plotted by: kolazard on 2022-03-29 @ 15:38 - cbrnick_ncs_2022.ctb

GENERAL NOTES:
 * 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.
 * WHEN A TYPE R INLET IS USED WITH MOUNTABLE CURB AND GUTTER, 5 FT. TRANSITION SHALL BE PROVIDED. TRANSITION SHALL BE PAID FOR AS CURB AND GUTTER.
 * WHEN A TYPE R INLET IS USED WITH MOUNTABLE CURB AND GUTTER, TRANSITION SHALL BE PAID FOR AS CURB AND GUTTER.
 * MEET SHAPE OF NORMAL BARRIER CURB AND GUTTER HERE.
 * SEE CHANNEL LAYOUT ON SHEET 2.
 * PLACE ENTIRE ASSEMBLY BEFORE POURING CONCRETE.
 * A 2 IN. DIAMETER TEMPORARY PILE FOR BRACKETS SHALL BE PLACED AT SUBGRADE ELEVATION OR A MINIMUM THREE INCHES BELOW ROAD BASE. THE HOLE SHALL BE FLOUGED WITH CONCRETE BEFORE ACCEPTANCE OF THE INLET.

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

MARK	BAR SIZE	D.C. SPACING	TYPE	ALL INLETS			INLETS: H ≤ 5 FT.			INLETS: H > 5 FT.		
				L = 5 FT.	L = 10 FT.	L = 15 FT.	L = 5 FT.	L = 10 FT.	L = 15 FT.	L = 5 FT.	L = 10 FT.	L = 15 FT.
401	4	11"	II	15	21	26	11	11	11	11	11	
402	4	11"	II	7	13	18	7	7	7	7	7	
403	4	9"	II	8	14	19	8	8	8	8	8	
405	4	6"	VI	11	17	22	11	11	11	11	11	
406	4	6"	VIII	7	13	18	7	7	7	7	7	
407	4	9"	II	8	14	19	8	8	8	8	8	
408	4	12"	II	3	6	9	3	3	3	3	3	
409	4	8"	II	6	10	14	6	6	6	6	6	
410	4	11"	VIII	11	17	22	11	11	11	11	11	
411	4	11"	II	15	21	26	11	11	11	11	11	
412	4	11"	II	7	13	18	7	7	7	7	7	
413	4	9"	II	8	14	19	8	8	8	8	8	

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

"H"	LENGTH	NO. REQ'D.		L = 5 FT.			L = 10 FT.			L = 15 FT.		
		REGULAR	DRIP BOX	CONC. CU. YDS.	STEEL LBS.	CONC. CU. YDS.	STEEL LBS.	CONC. CU. YDS.	STEEL LBS.	CONC. CU. YDS.	STEEL LBS.	
3'-0"	2'-0"	10	7	3.2	285	5.3	497	7.4	706			
3'-0"	3'-0"	10	7	3.4	305	5.7	528	7.9	747			
4'-0"	3'-0"	12	9	3.7	326	6.0	559	8.4	786			
4'-0"	4'-0"	12	9	3.9	334	6.4	571	8.8	803			
5'-0"	4'-0"	14	11	4.1	354	6.7	622	9.3	844			
5'-0"	5'-0"	16	13	4.4	375	7.0	653	9.8	875			
6'-0"	5'-0"	16	13	4.6	382	7.2	664	10.0	886			
6'-0"	6'-0"	18	15	4.8	402	7.4	684	10.2	906			
7'-0"	6'-0"	20	17	5.0	423	7.6	705	10.4	927			
7'-0"	7'-0"	20	17	5.3	430	7.8	716	10.6	938			
8'-0"	7'-0"	22	19	5.5	451	8.0	737	10.8	959			
8'-0"	8'-0"	24	21	5.7	471	8.2	758	11.0	980			
9'-0"	8'-0"	24	21	6.0	479	8.4	769	11.2	991			
9'-0"	9'-0"	26	23	6.2	489	8.6	780	11.4	1002			
10'-0"	9'-0"	28	25	6.4	500	8.8	791	11.6	1013			
10'-0"	10'-0"	28	25	6.7	527	9.0	812	11.8	1034			
11'-0"	10'-0"	30	27	6.9	547	9.2	833	12.0	1055			

GENERAL NOTES:
 * CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
 * CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 INCHES THICK.
 * INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
 * CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
 * EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1/4" OF A INCH CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEYOND THE TRANSITION GUTTER.
 * REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 INCH MINIMUM CLEARANCE ALL REINFORCING BARS SHALL BE GRADE 60 AND PROXY COATED.
 * DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
 * MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
 * 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.
 * STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
 * 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.

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

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

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

COMPUTER FILE INFORMATION
 Creation Date: 07/31/19
 Designer Initials: JBK
 Last Modification Date: 07/31/19
 Detailer Initials: LTA
 CAD Ver: MicroStation V8 Scale: Not to Scale Units: English

SHEET REVISIONS

Colorado Department of Transportation
 2829 West Howard Place
 6007 HD, 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

NO DUMPING DRAINS TO STREAM

GENERAL NOTES:
 * CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
 * CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 INCHES THICK.
 * INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
 * CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
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 * 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.

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

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

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

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Colorado Department of Transportation
 2829 West Howard Place
 6007 HD, 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

MANHOLE COVER STANDARD DETAIL

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

DATE: NOVEMBER 2020
DETAIL: 33
1 OF 1

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

STANDARD DETAILS

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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

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 SHEET NO. 20 OF 23

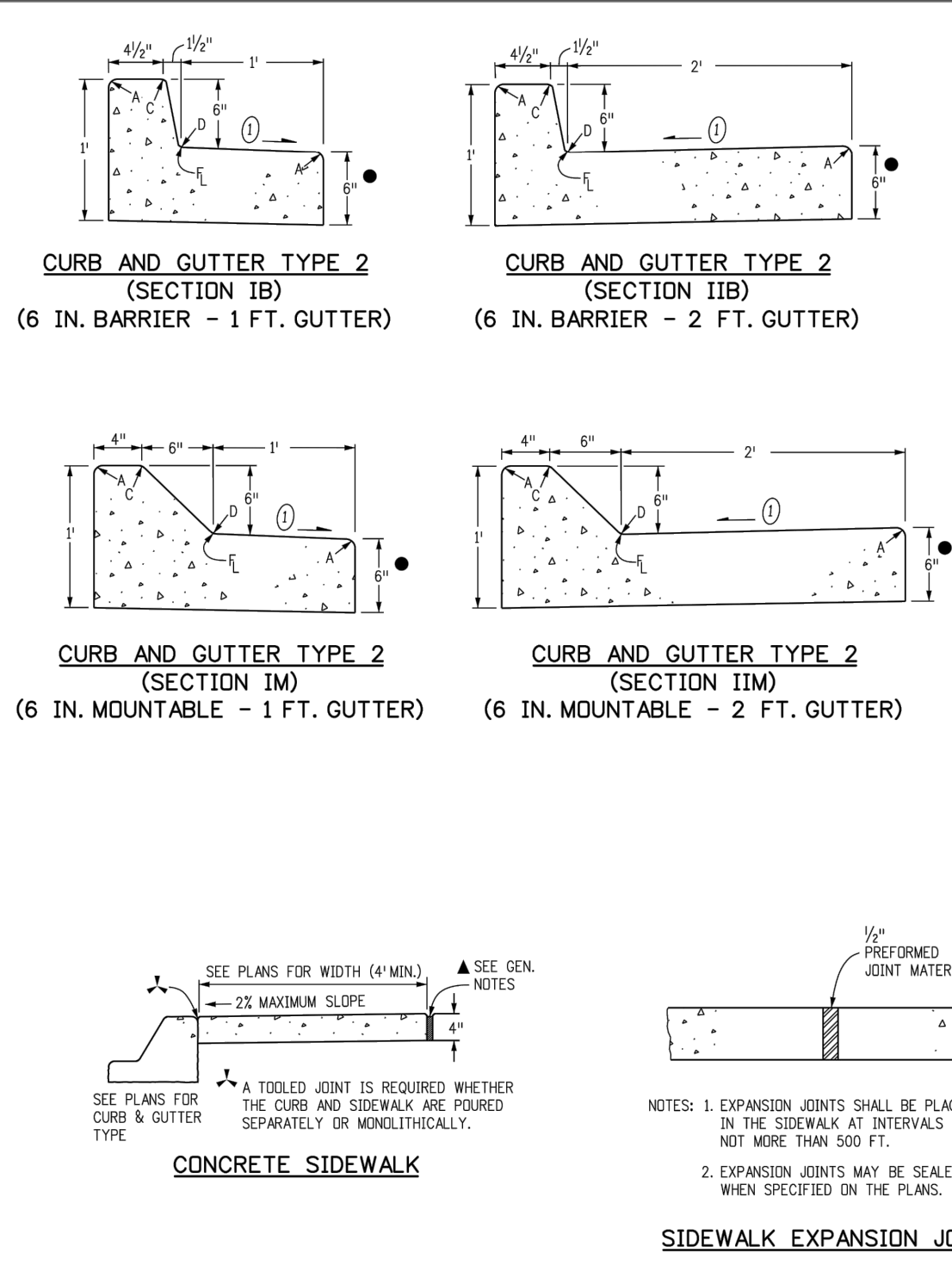
PROJECT NO: **2243** DRAWN/DESIGNED BY: **KAJS**
 CHECKED BY: **JS**
 DATE: **3/29/2022**

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GENERAL NOTES

- ON ROADWAY CURVES WITH A RADIUS OF 1,000 FT. OR LESS, CURBS AND GUTTERS ARE TO BE PLACED ON THE ARC OF THE CURVE, UNLESS OTHERWISE NOTED ON THE PLANS. A MAXIMUM CURB LENGTH OF 10 FT. MAY BE USED WHEN THE CURVE RADIUS IS GREATER THAN 1,000 FT.
- CONCRETE SHALL BE CLASS B.
- PROFILE GRADE OF CURBS AND GUTTERS SHALL BE LOCATED AT THE FLOW LINE.
- 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.
- GUTTER CROSS SLOPES MAY BE ADJUSTED TO FACILITATE DRAINAGE FOR PROFILE GRADES AS SHOWN ON THE PLANS.
- 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.
- INCREASE SIDEWALK THICKNESS TO 6 IN. AT LOCATIONS SHOWN ON THE PLANS.
- MINIMUM SIDEWALK WIDTH IS 4 FT.

▲ EXPANSION JOINTS SHALL BE INSTALLED WHEN ABUTTING EXISTING CONCRETE OR FIXED STRUCTURE. EXPANSION JOINT MATERIAL SHALL BE 1/2" IN THICK AND SHALL EXTEND THE FULL DEPTH OF CONTACT SURFACE.

① GUTTER CROSS SLOPES SHALL BE 1/2" IN 10 FT. WHEN DRAINING AWAY FROM CURB AND 1 IN 10 FT. WHEN DRAINING TOWARD CURB WITH EXCEPTION TO IMMEDIATELY ADJACENT TO CURB RAMPS - SEE STANDARD PLAN M-609-1 FOR SLOPE REQUIREMENTS.

● WHEN THE BARS ARE REQUIRED, THE GUTTER THICKNESS SHALL BE INCREASED TO THE PAVEMENT THICKNESS (1) BARS SHALL BE EPDM-COATED #4 CONFORMING TO ASTM M 284 AND SPACED AT 3 FT. INTERVALS. THEY SHALL BE INSERTED 1/2" AND 1/2" LENGTH INTO THE GUTTER.

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

■ FLOW LINE LOCATION WILL BE ESTABLISHED BY 1/2" SHOWN ON PLANS.

LEGEND FOR RADII

- A = 1/4" TO 1/2"
- B = 1"
- C = 1 1/2"
- D = 1/2" TO 2"

CONSTRUCTION OF CONCRETE GUTTERS AT INTERSECTION

▲ CURB AND GUTTER - MIN. 6" THICK OR SAME AS PAVEMENT (LESSOR)

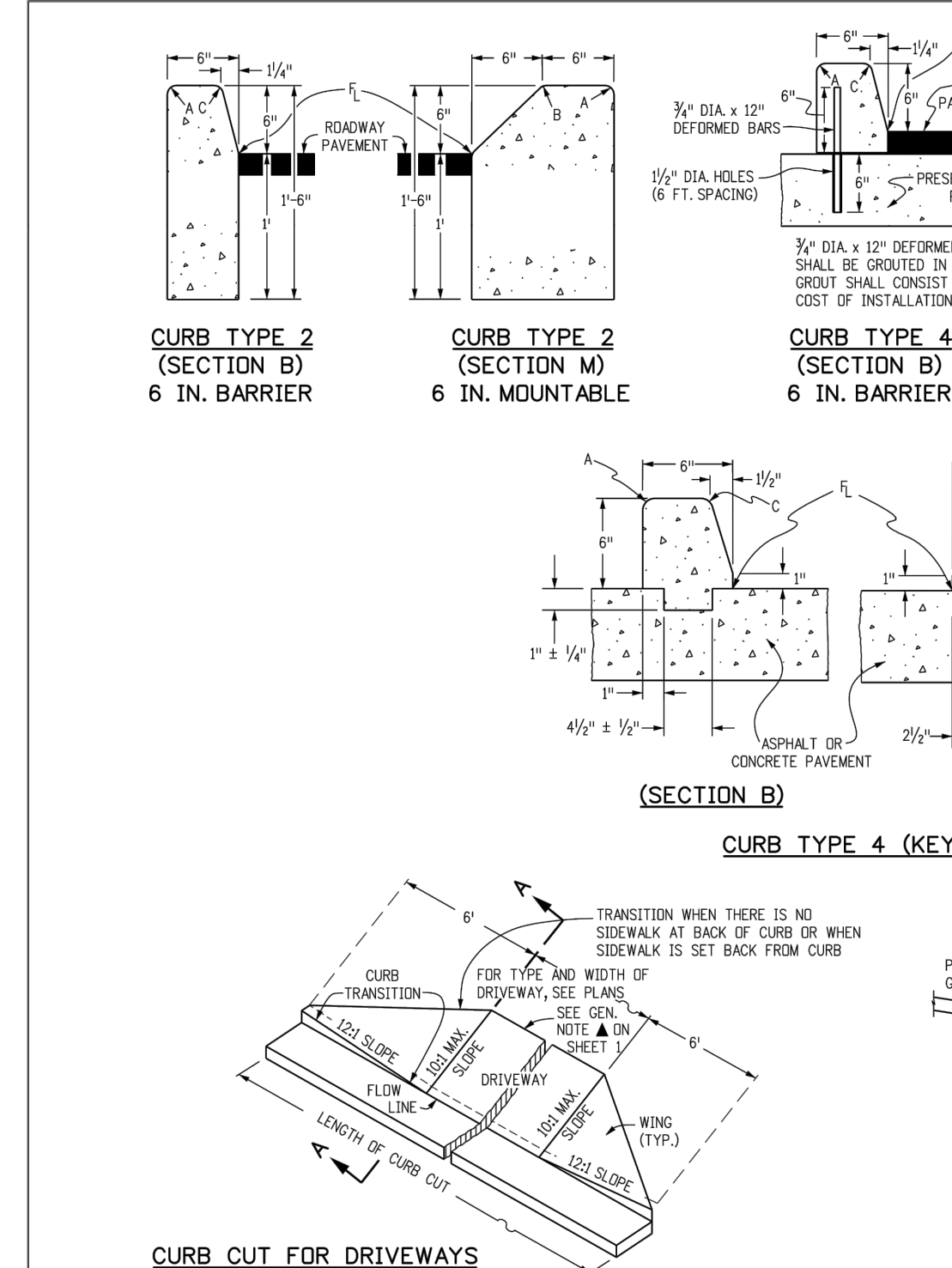
▲ GUTTER - MIN. 6" THICK OR SAME AS PAVEMENT (LESSOR)

▲ TO BE BUILT MONOLITHICALLY WITH CURB AND GUTTER (TYPE 2) IS NOT REQUIRED

▲ TO BE BUILT WITH CURB AND GUTTER (TYPE 2) IS NOT REQUIRED

Computer File Information		Sheet Revisions		Colorado Department of Transportation	
Creation Date: 07/31/19	Designer Initials: JBK	Date:	Comments:	2829 West Howard Place	CDOT HO, 3rd Floor
Last Modification Date: 07/31/19	Detailer Initials: LTA			Denver, CO 80204	Phone: 303-757-9021 FAX: 303-757-9868
CAD Ver: MicroStation V8	Scale: Not to Scale	Units: English		Project Development Branch	JBK

CURB, GUTTERS, AND SIDEWALKS	STANDARD PLAN NO. M-609-1
Issued by the Project Development Branch July 31, 2019	Project Sheet No. 1 of 4



LEGEND FOR RADII

- A = 1/8" TO 1/4"
- B = 1"
- C = 1 1/2"
- D = 1/2" TO 2"

CONCRETE PAVEMENT (DRIVEWAYS)

▲ CONCRETE CLASS B SHALL CONTAIN 1.5 POUNDS PER CUBIC YARD OF APPROVED POLYPROPYLENE FIBERS AND MAY HAVE A NOMINAL AGGREGATE SIZE OF 3/8" IN.

TRANSVERSE CONTRACTION JOINT FOR CONCRETE PAVEMENT (DRIVEWAYS)

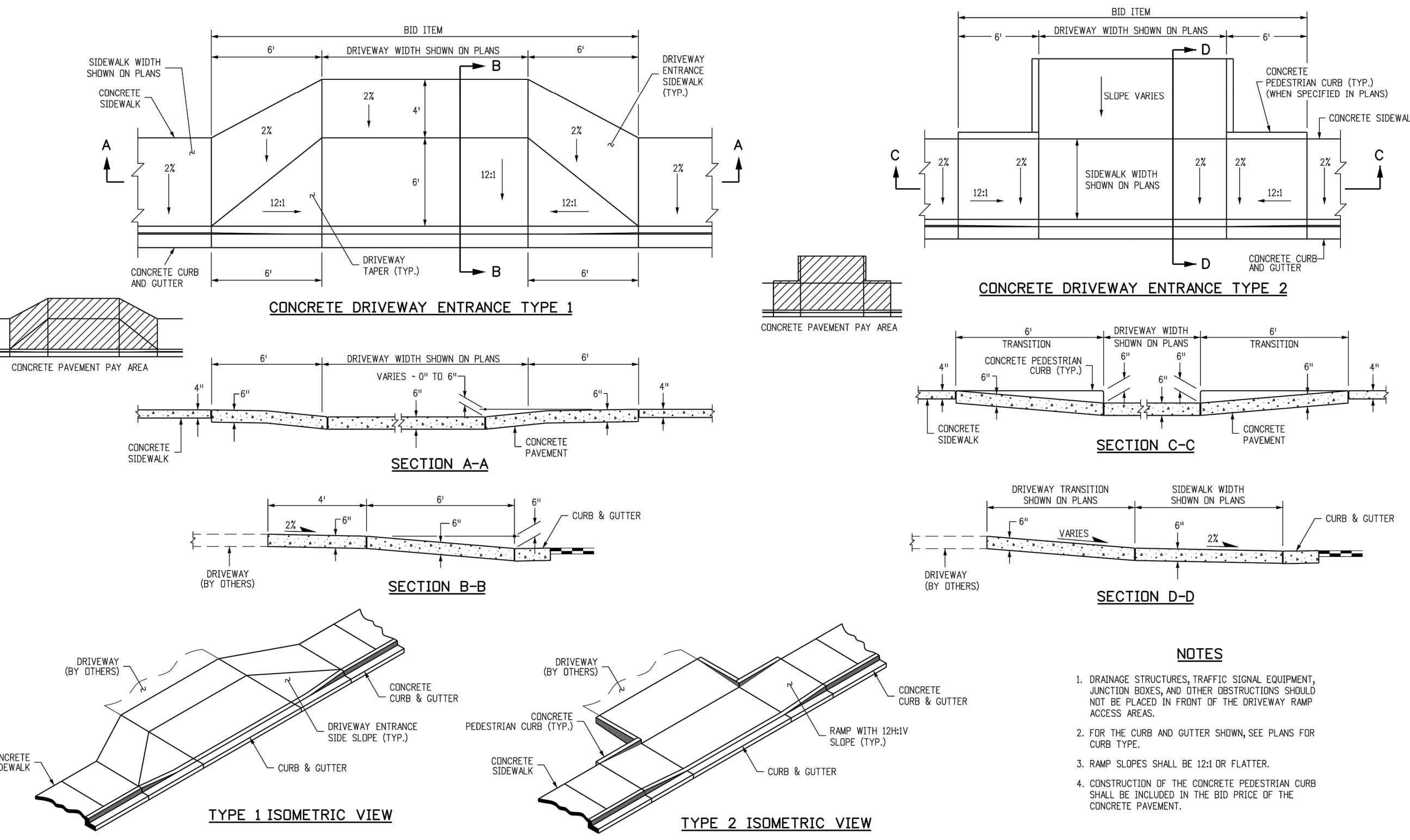
NOTE: BITUMINOUS OR CONCRETE * UNLESS OTHERWISE SPECIFIED ON THE PLANS.

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

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

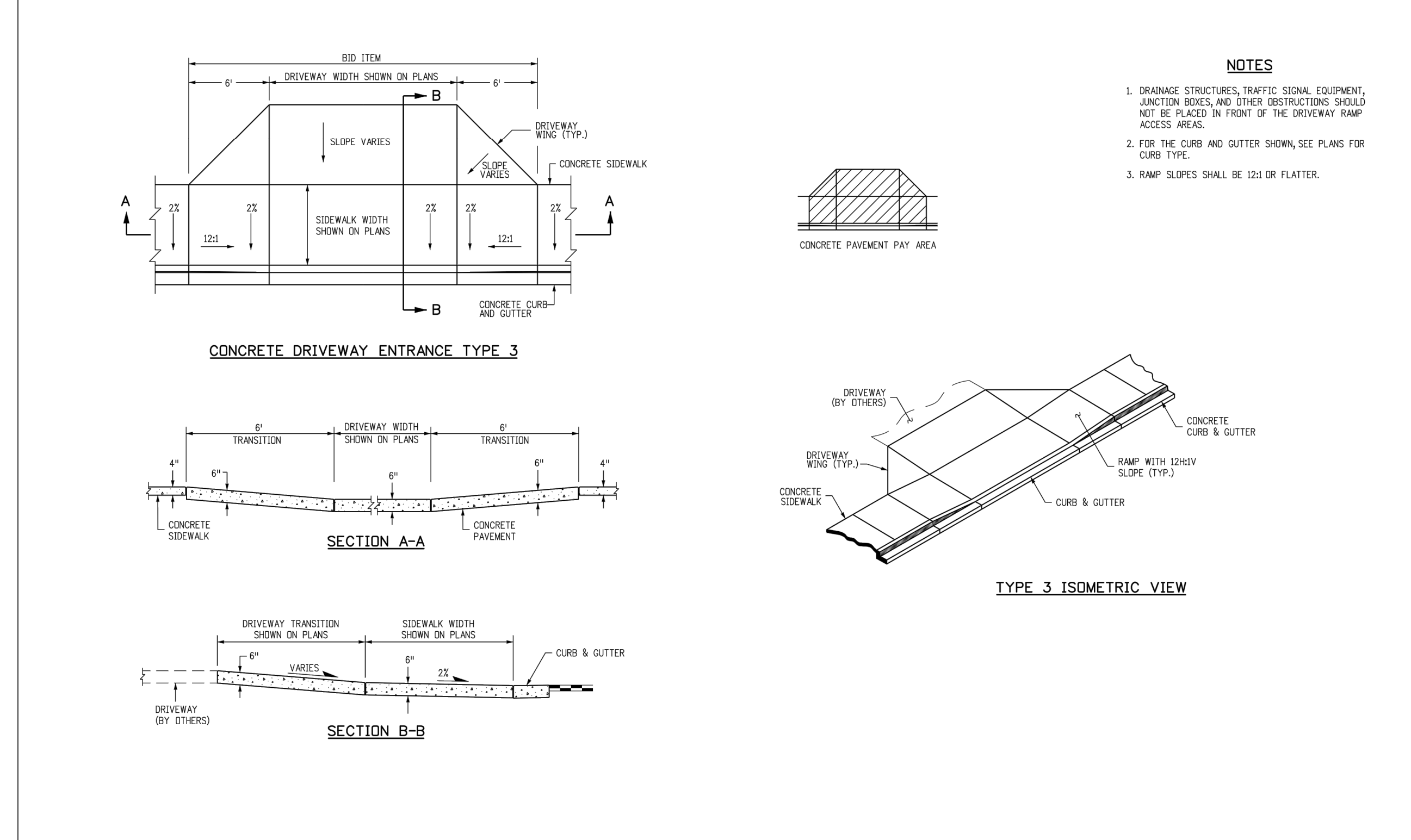
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CURB, GUTTERS, AND SIDEWALKS	STANDARD PLAN NO. M-609-1
Issued by the Project Development Branch July 31, 2019	Project Sheet No. 2 of 4



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CURB, GUTTERS, AND SIDEWALKS	STANDARD PLAN NO. M-609-1
Issued by the Project Development Branch July 31, 2019	Project Sheet No. 3 of 4



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CURB, GUTTERS, AND SIDEWALKS	STANDARD PLAN NO. M-609-1
Issued by the Project Development Branch July 31, 2019	Project Sheet No. 4 of 4

TOWN OF PARKER APPROVALS

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SEAL:

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ENGLEWOOD, CO 80112
303.537.8020

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PROJECT NO: 2243 | DRAWN/DESIGNED BY: KAJS | CHECKED BY: JS
DATE: 3/29/2022

ROADWAY & STORM DRAIN PLANS PREPARED FOR:

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

DOUGLAS COUNTY, COLORADO

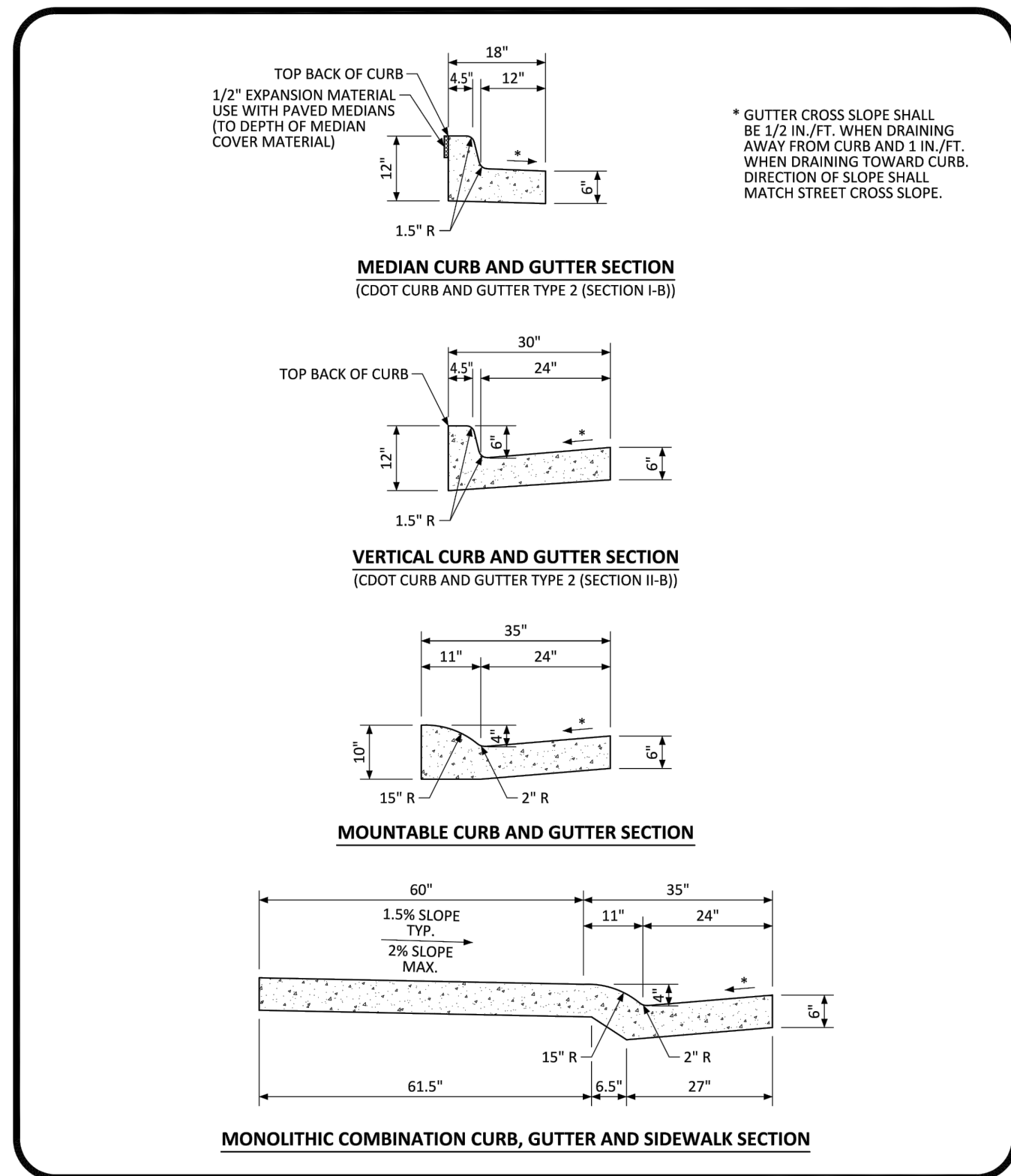
STANDARD DETAILS

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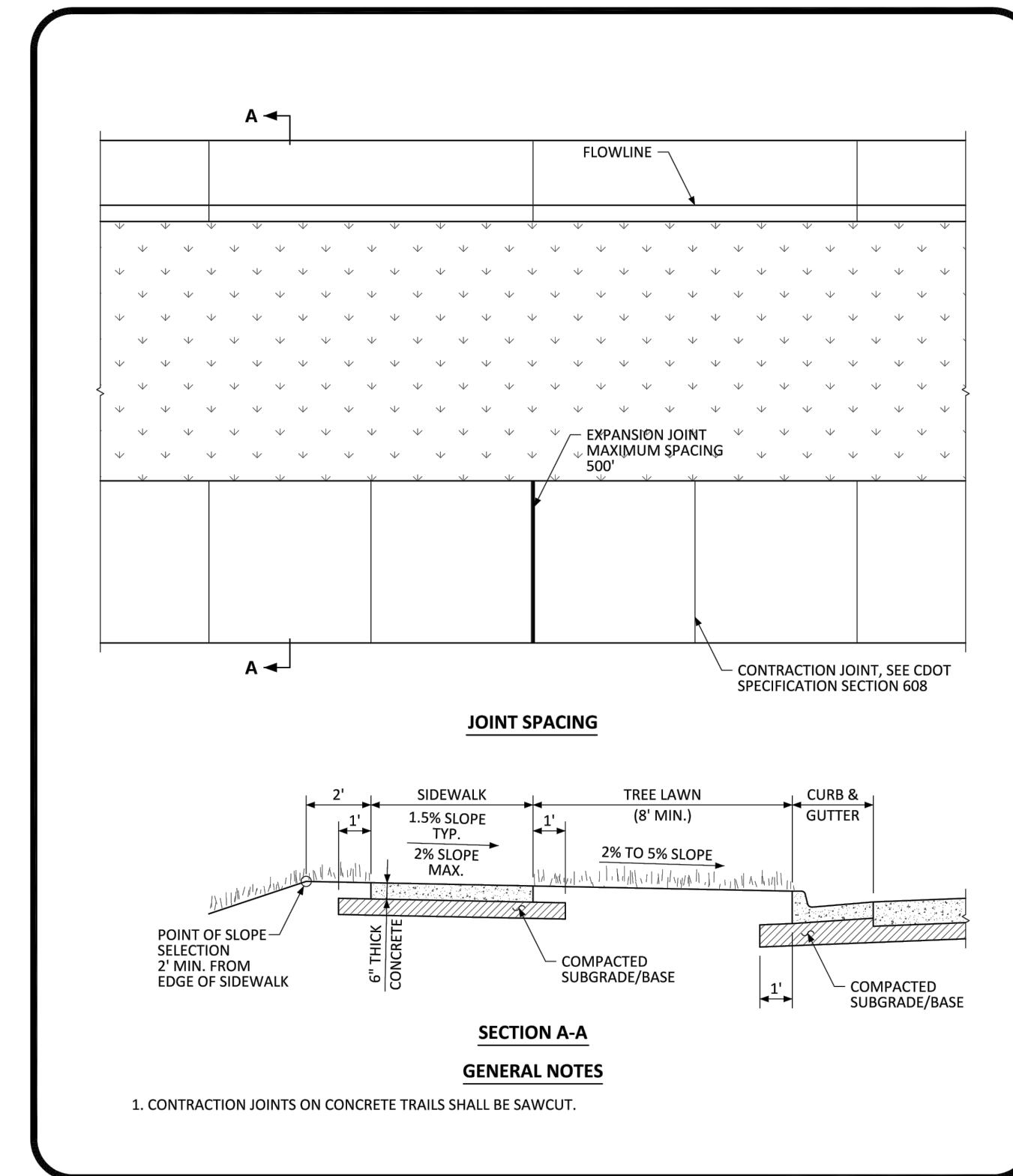
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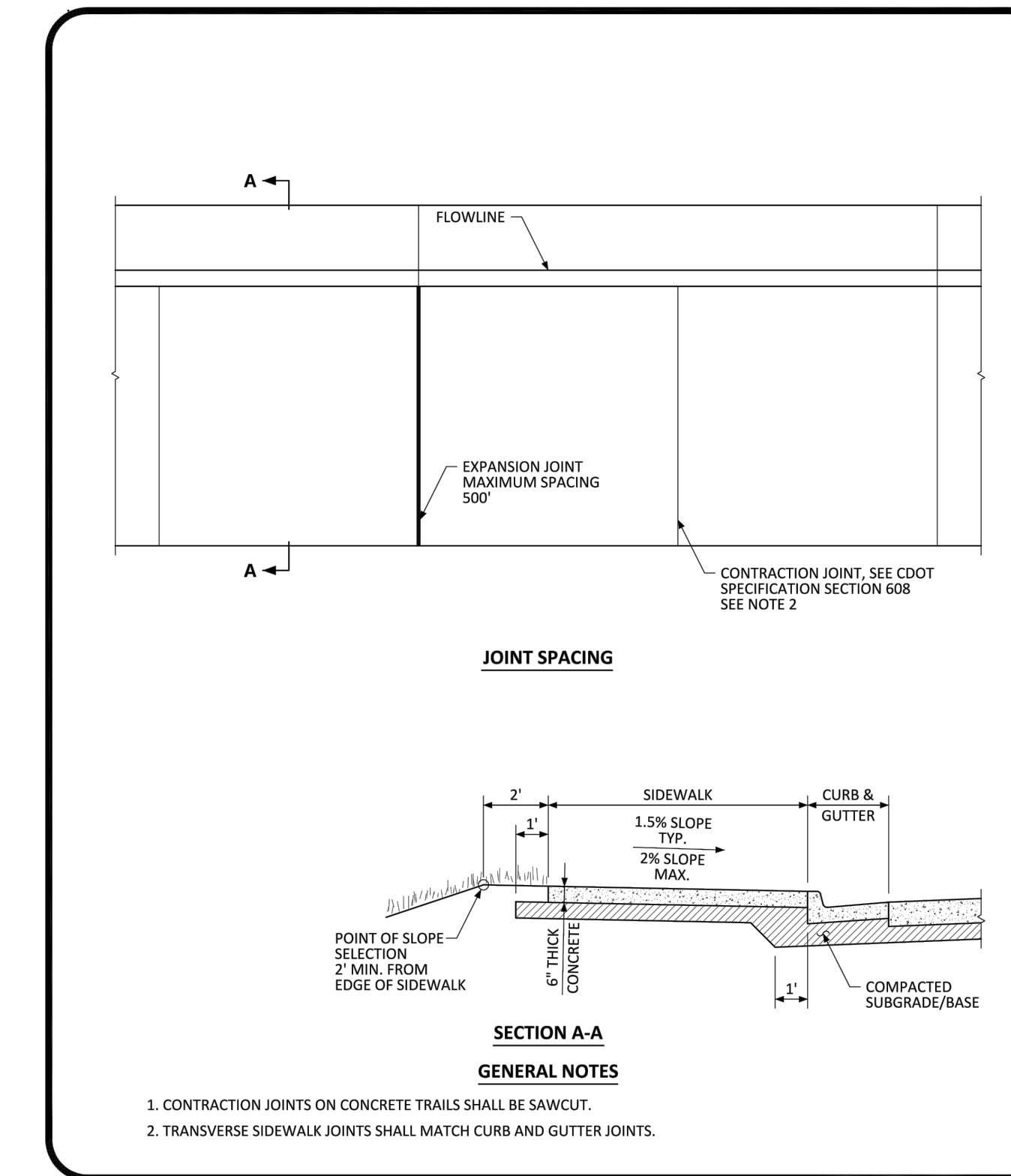
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO CURB, GUTTER, AND SIDEWALK SECTIONS STANDARD DETAIL DATE NOVEMBER 2020 DETAIL 3 1 OF 1



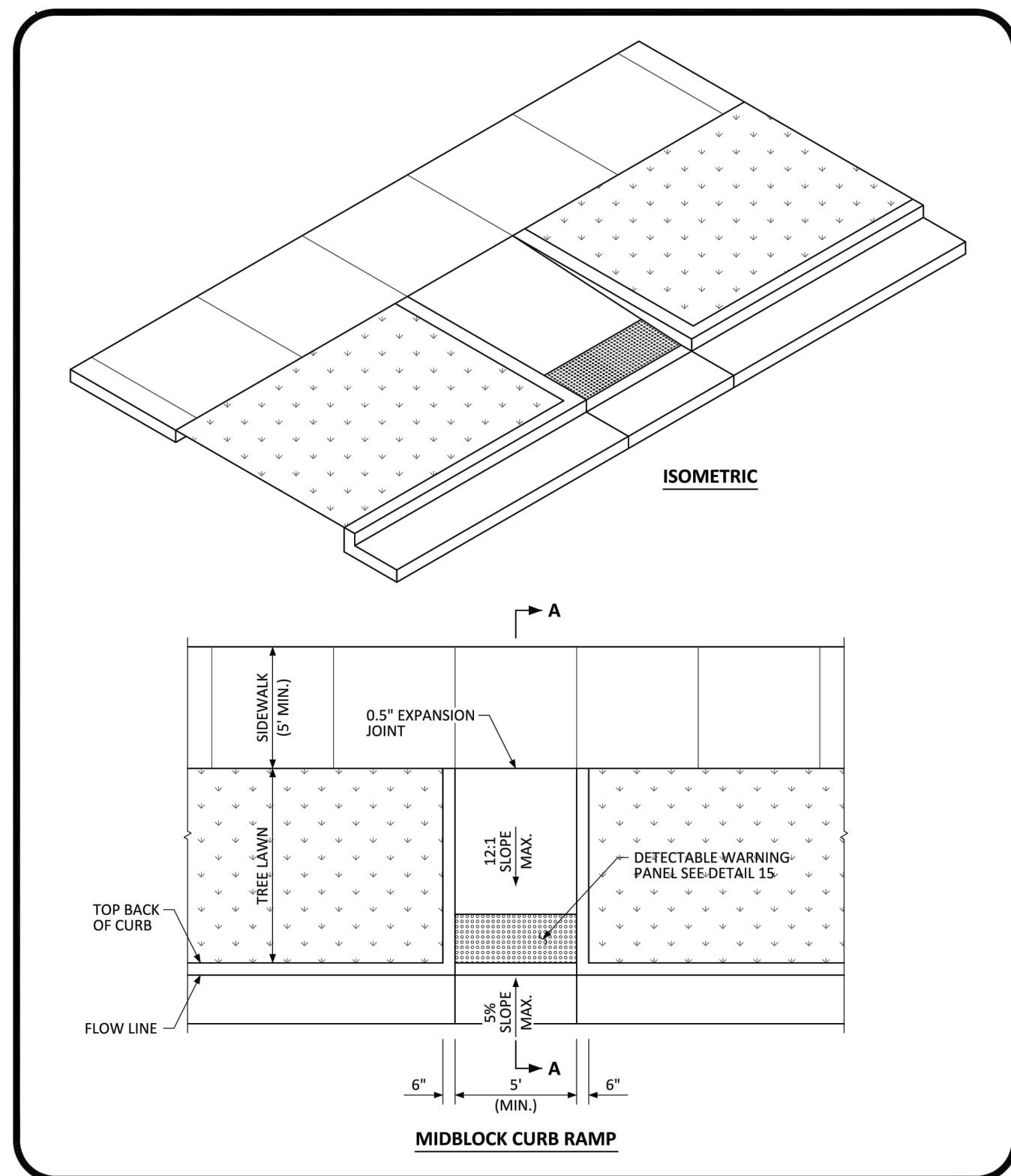
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PARKER COLORADO DETACHED SIDEWALK STANDARD DETAIL DATE NOVEMBER 2020 DETAIL 4 1 OF 2



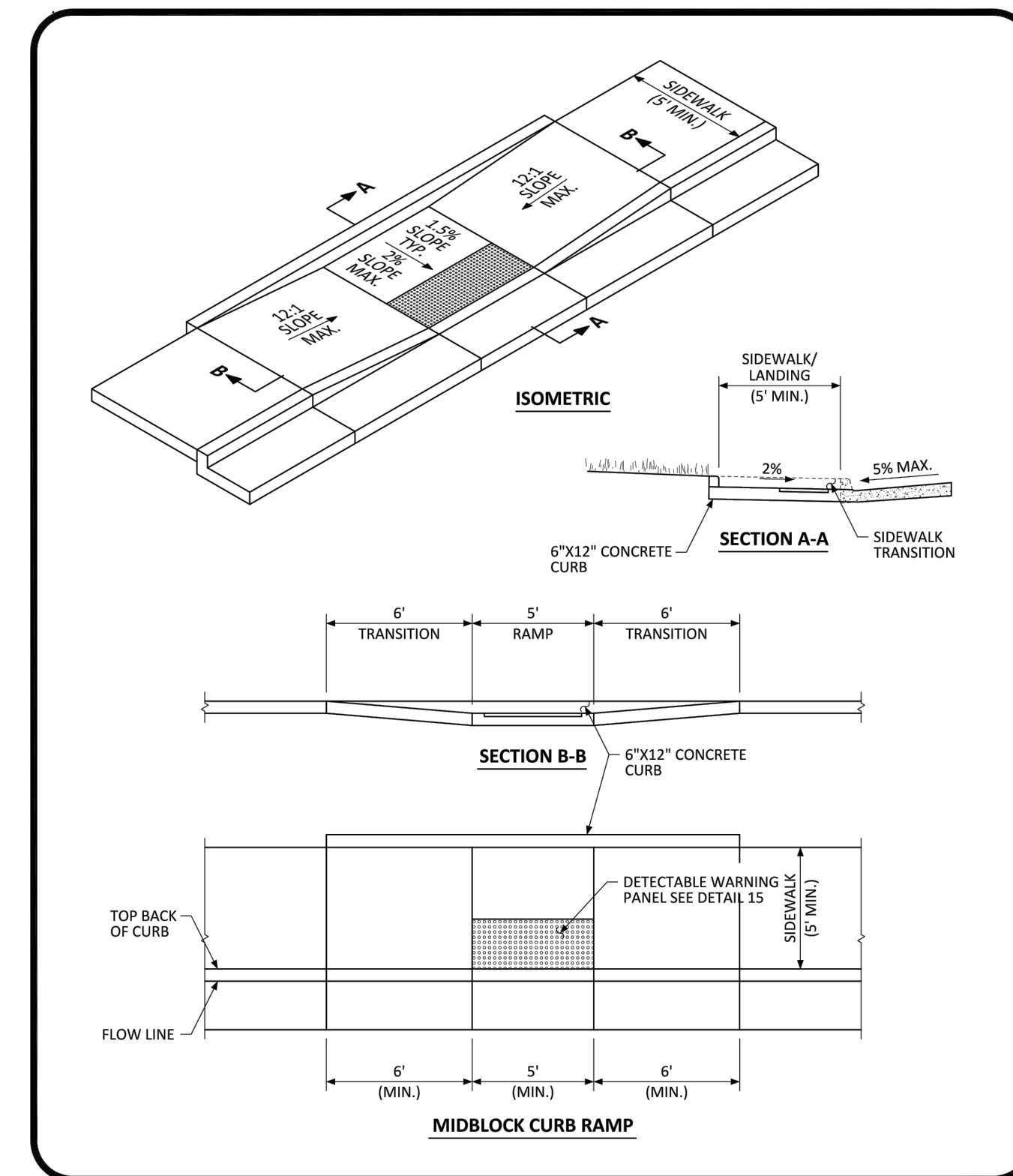
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PARKER COLORADO ATTACHED SIDEWALK STANDARD DETAIL DATE NOVEMBER 2020 DETAIL 4 2 OF 2



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



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PARKER COLORADO MIDBLOCK CURB RAMP LAYOUT STANDARD DETAIL DATE NOVEMBER 2020 DETAIL 17 2 OF 2

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TOWN OF PARKER, DIRECTOR OF ENGINEERING

DATE

SEAL:

RICK ENGINEERING COMPANY
8678 CONCORD CENTER DR, UNIT 200
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rickengineering.com

San Diego - Riverside - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

PROJECT NO: 2243 DRAWN/DESIGNED BY: KA/JS
DATE: 3/29/2022 CHECKED BY: JS

ROADWAY & STORM DRAIN PLANS PREPARED FOR:
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AMENDMENT 1, LOT 4**
DOUGLAS COUNTY, COLORADO

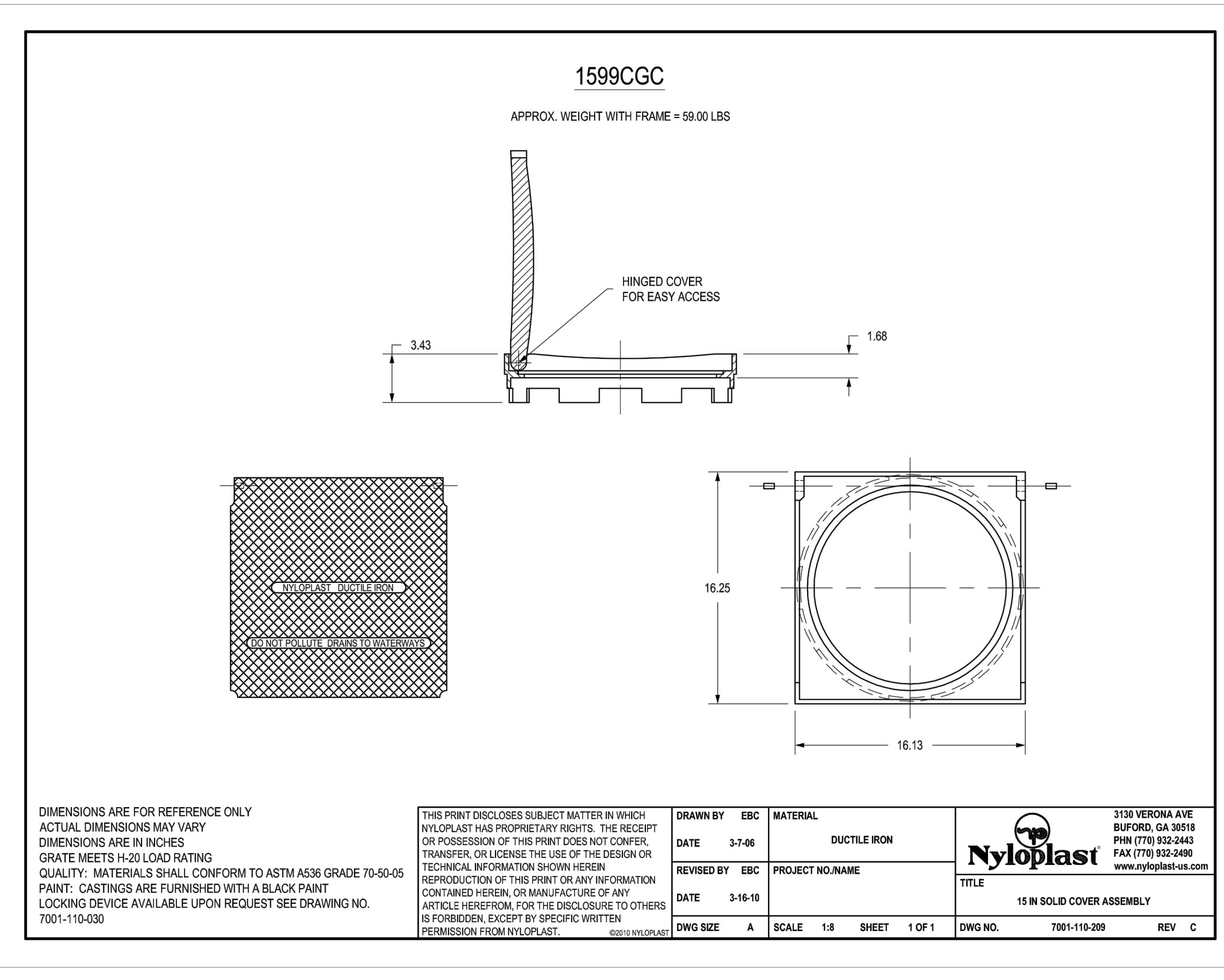
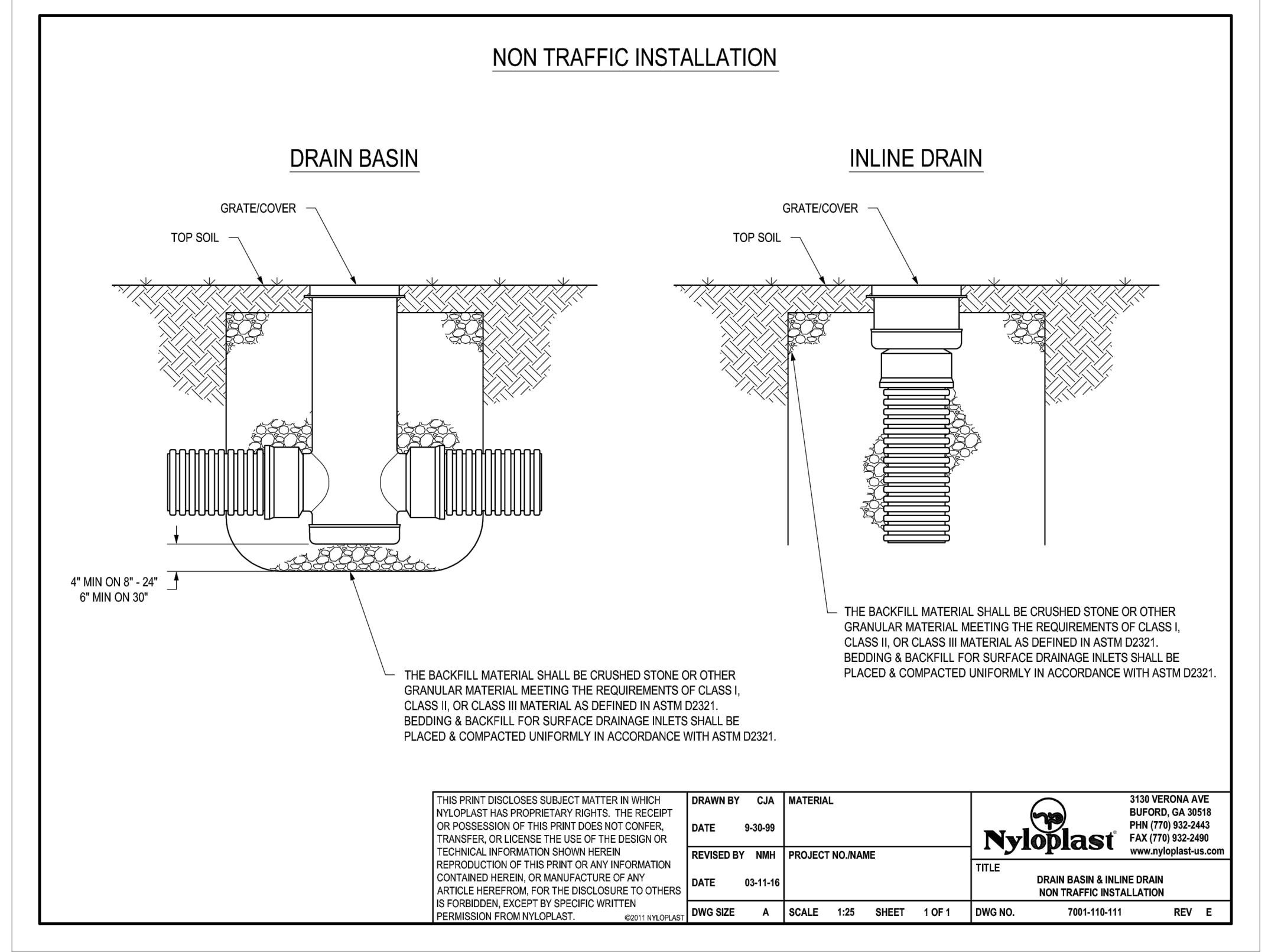
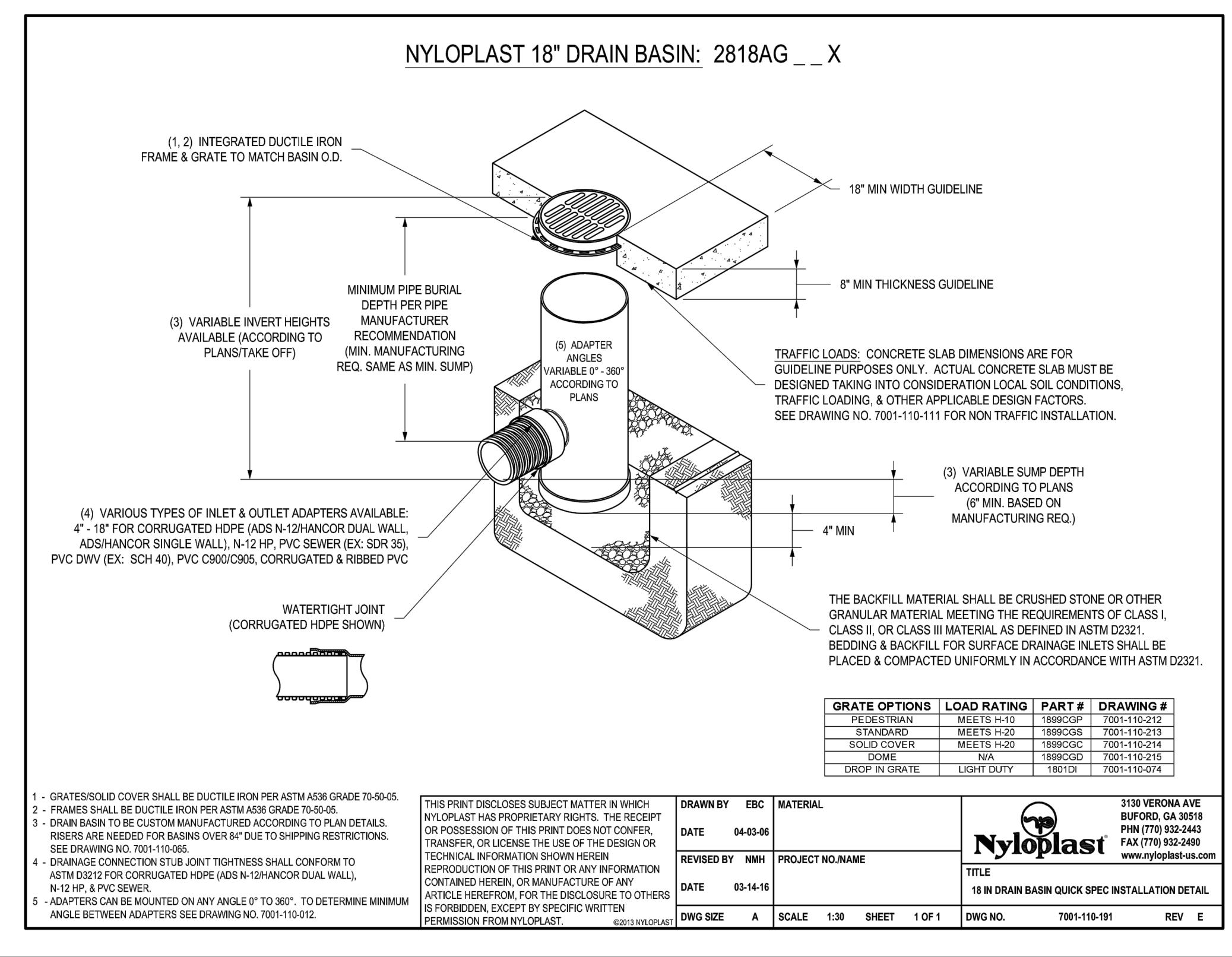
STANDARD DETAILS



DRAWING NO. 22
SHEET NO. 22 OF 23

TST SUBMITTAL

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NO.	BY	DATE	REVISION

SEAL:

PROJECT NO:	2243	DRAWN/DESIGNED BY:	KAJS
DATE:	3/29/2022	CHECKED BY:	JS

RICK ENGINEERING COMPANY

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

San Diego - Riverside - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

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.
23
SHEET NO. 23 OF 23

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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

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