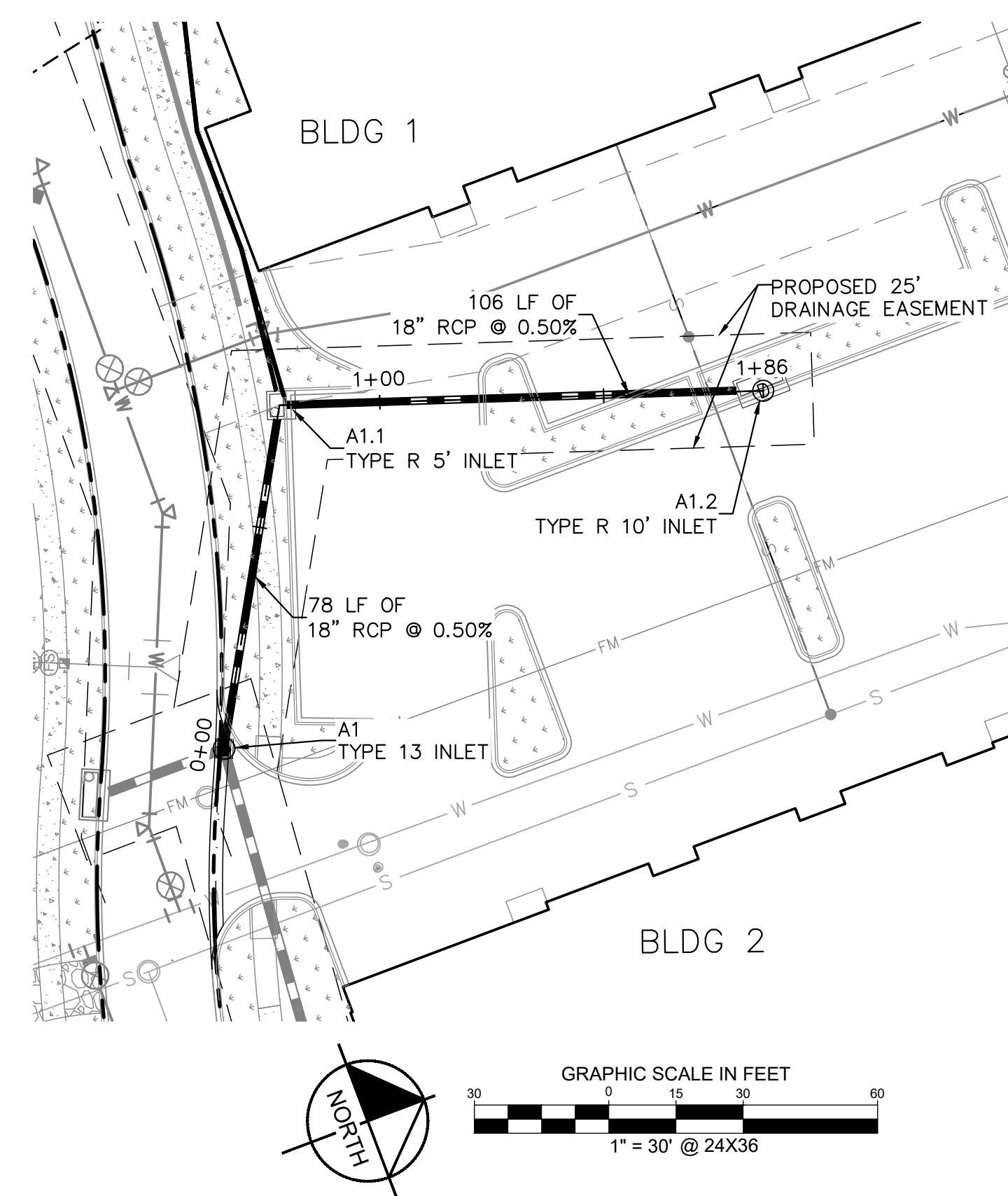
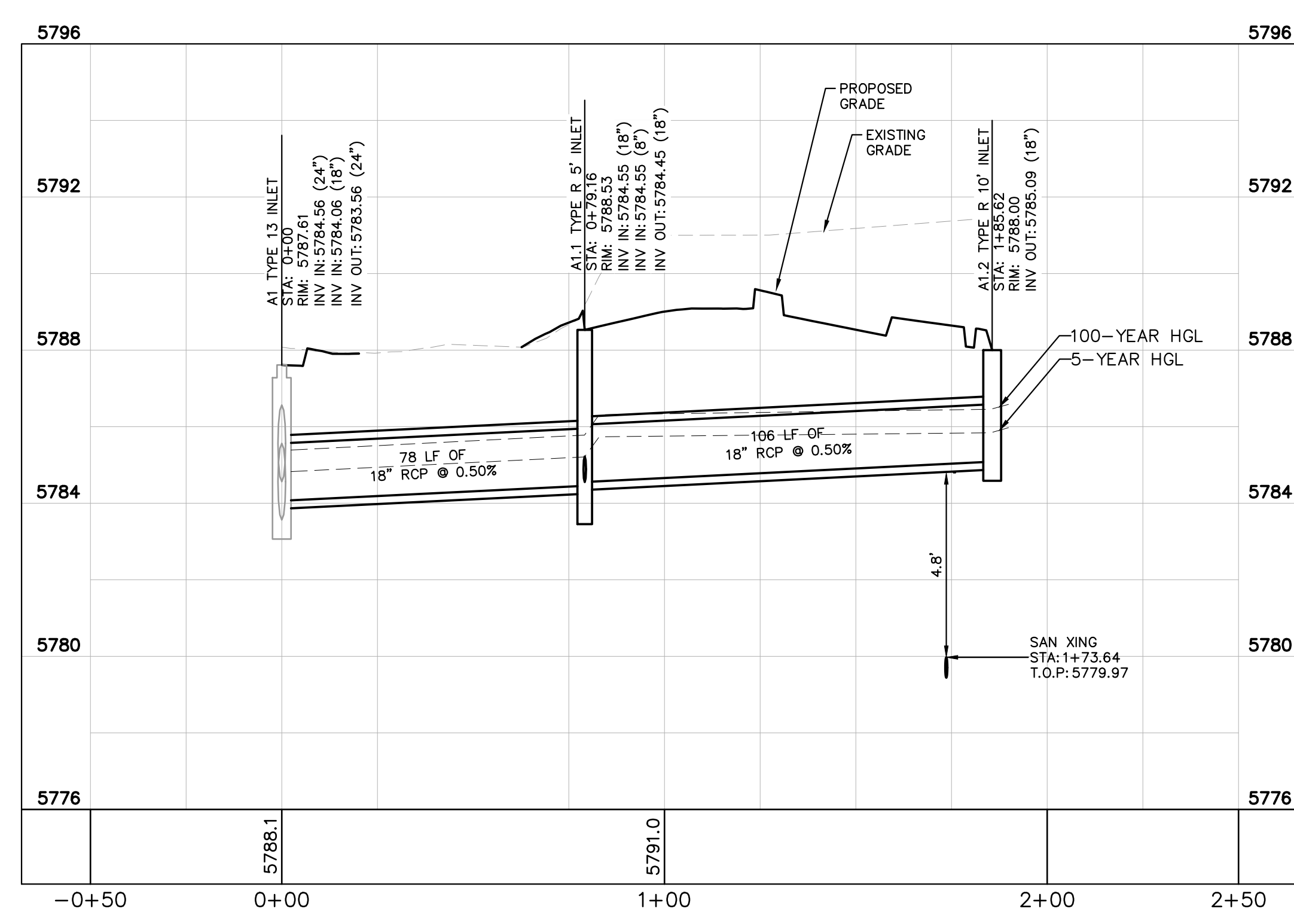
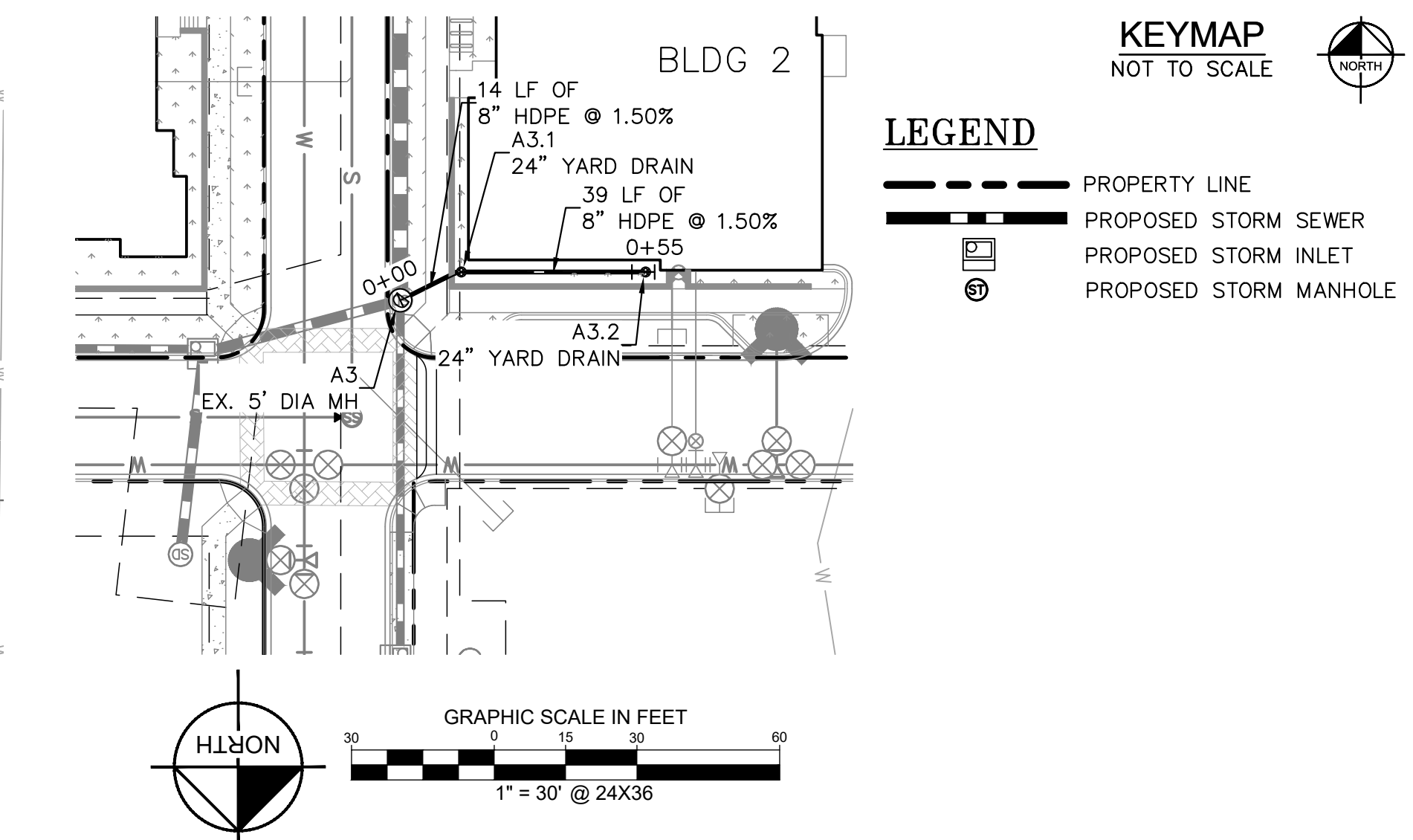
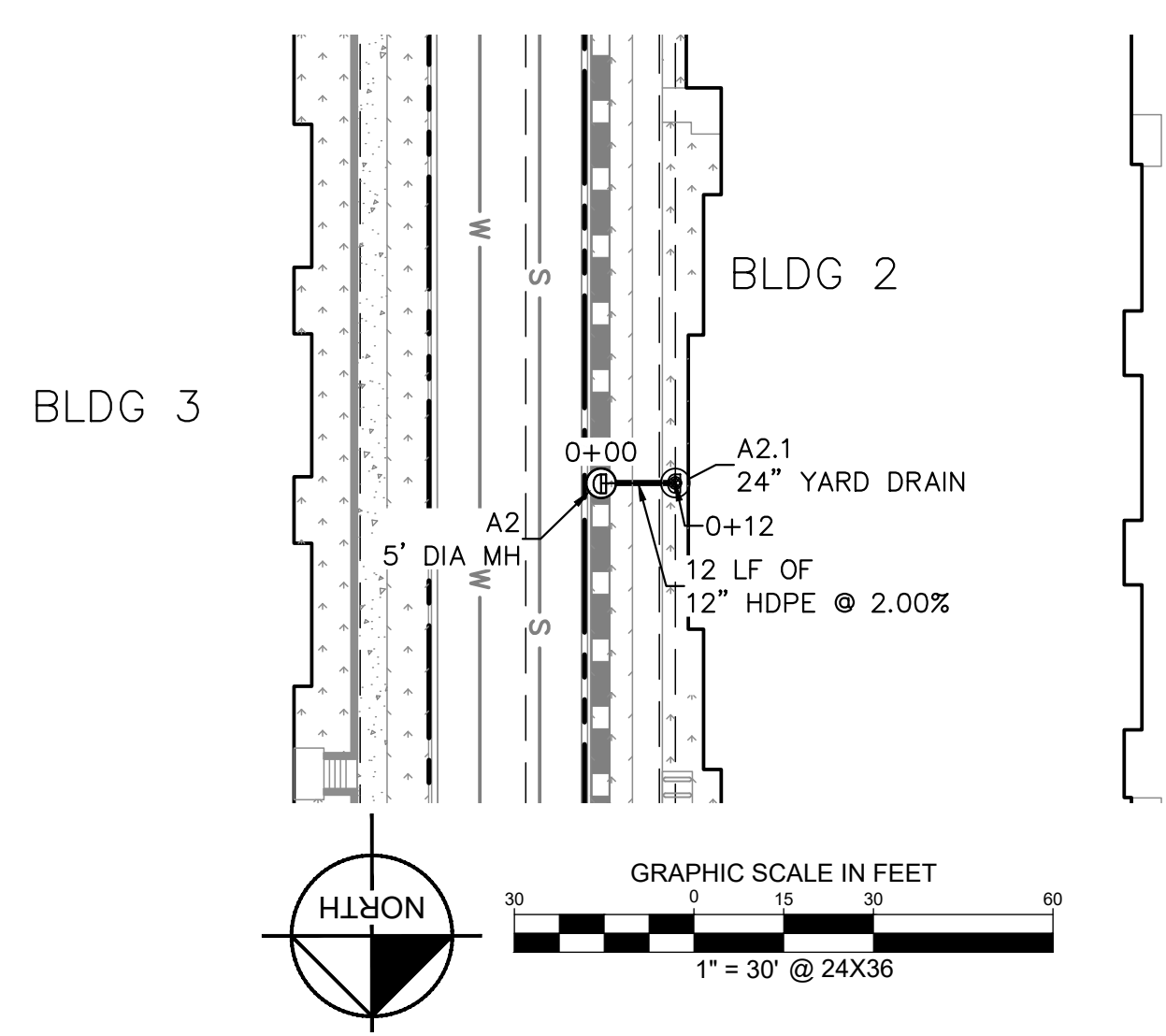


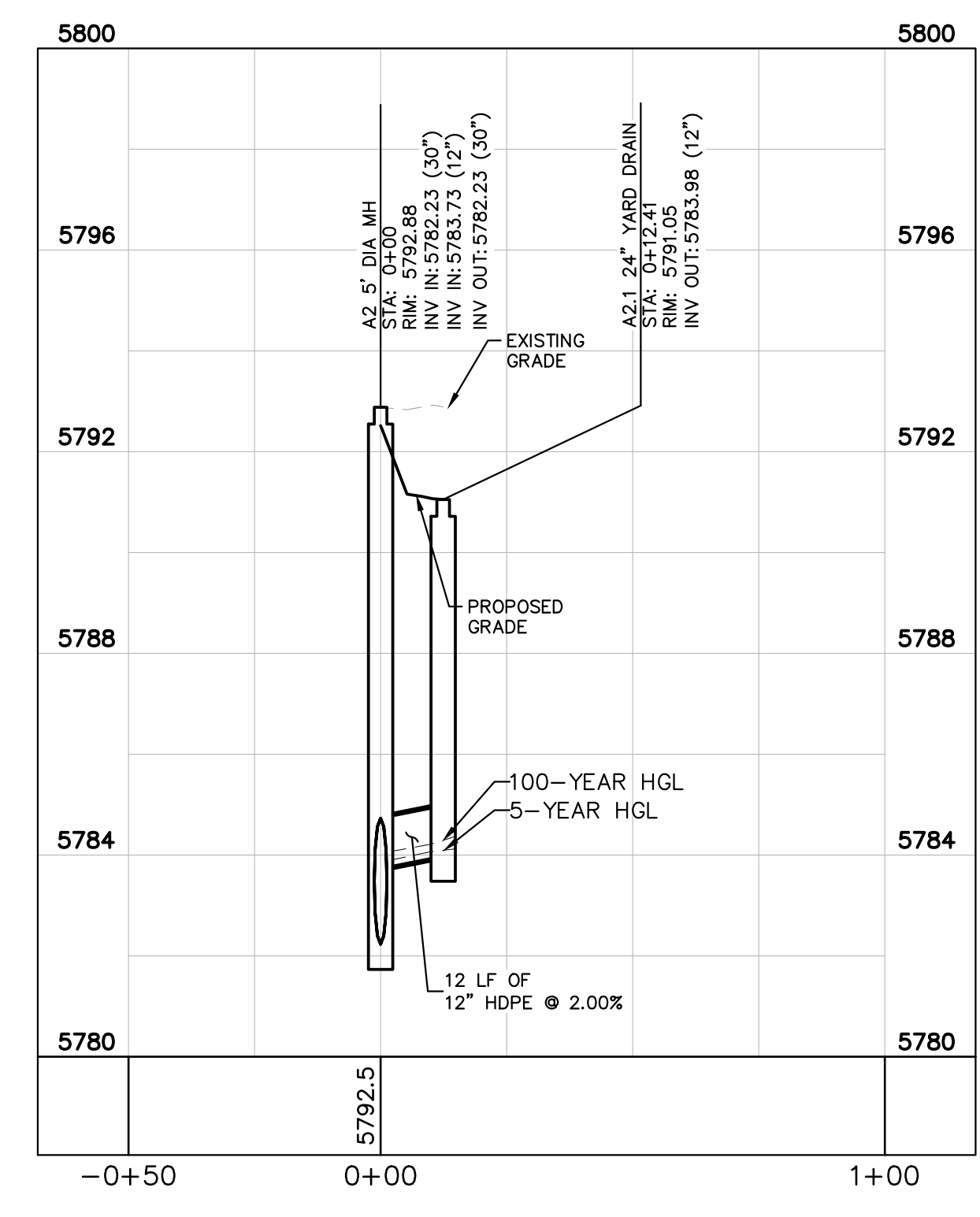
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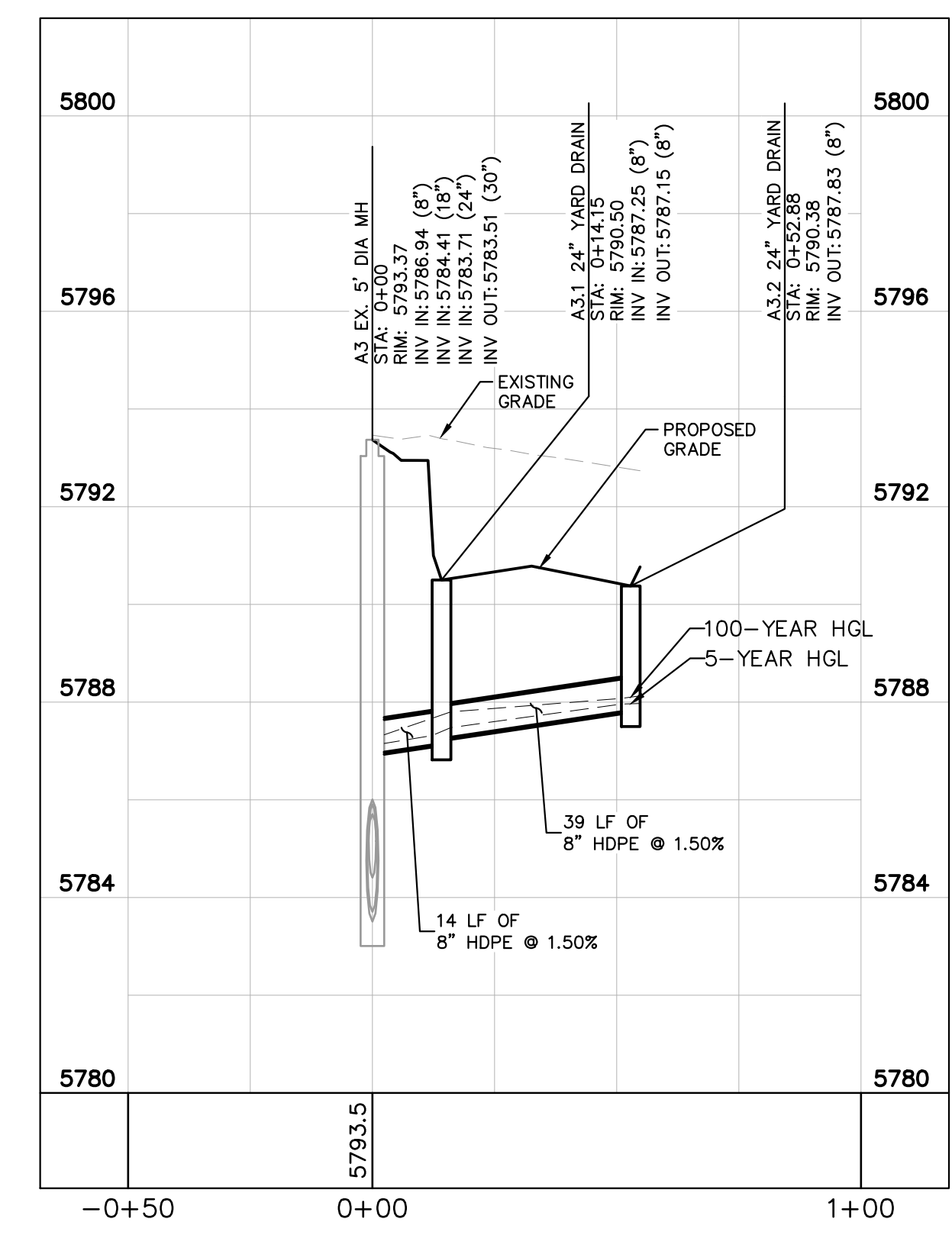
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 TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____



STORM LINE A1 PROFILE
 [STA 0+00 TO 1+88]
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'



STORM LINE A2 PROFILE
 [STA 0+00 TO 0+12]
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'



STORM LINE A3 PROFILE
 [STA 0+00 TO 0+55]
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'

NO.	REVISION	BY	DATE	APPR

Kimley»Horn
 2020 KIMLEY-HORN AND ASSOCIATES, INC.
 4582 South Ulster Street, Suite 1500
 Denver, Colorado 80237 (303) 228-2300

DESIGNED BY: DLS
 DRAWN BY: JRK
 CHECKED BY: DLS
 DATE: 02/16/21

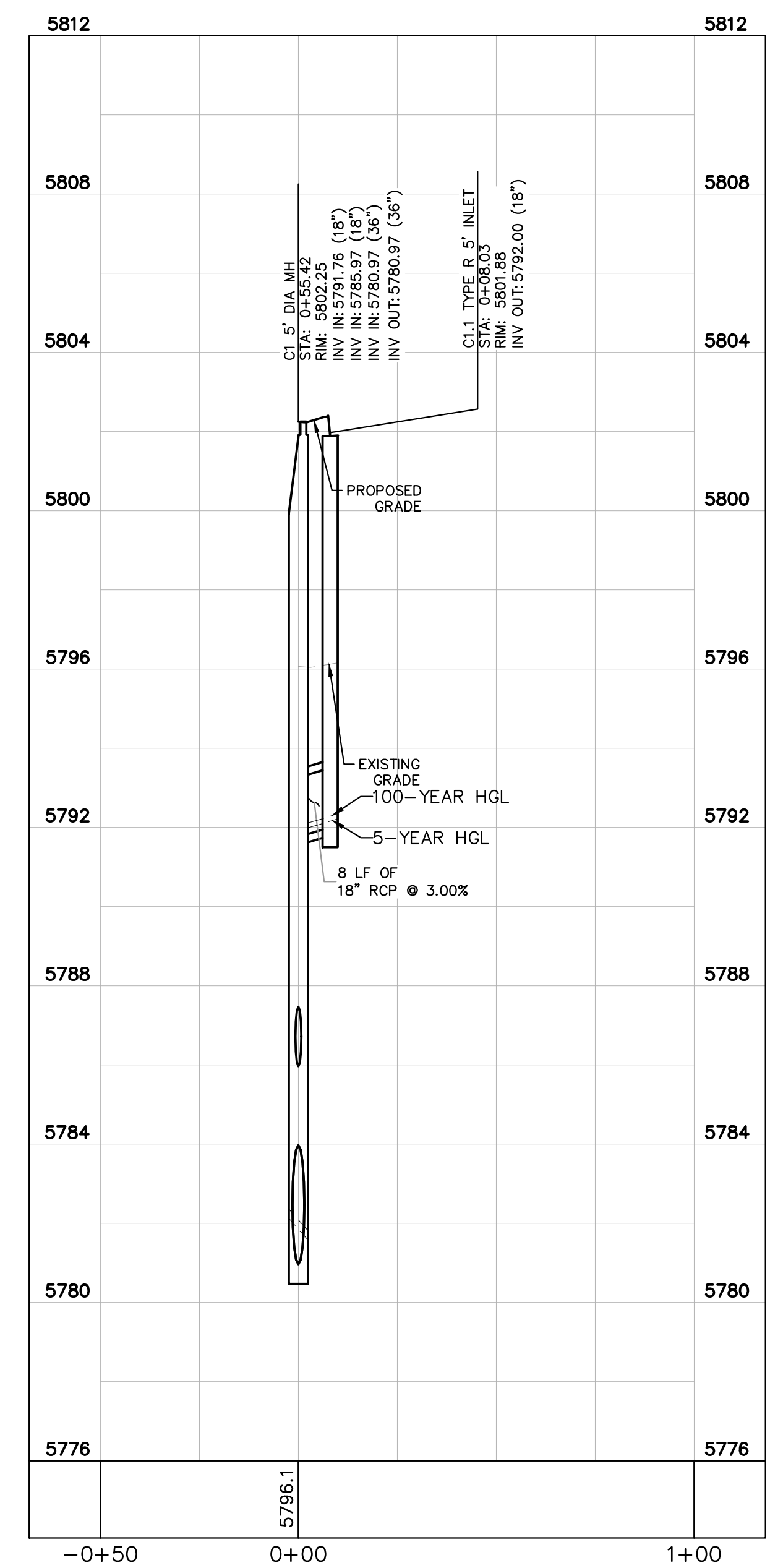
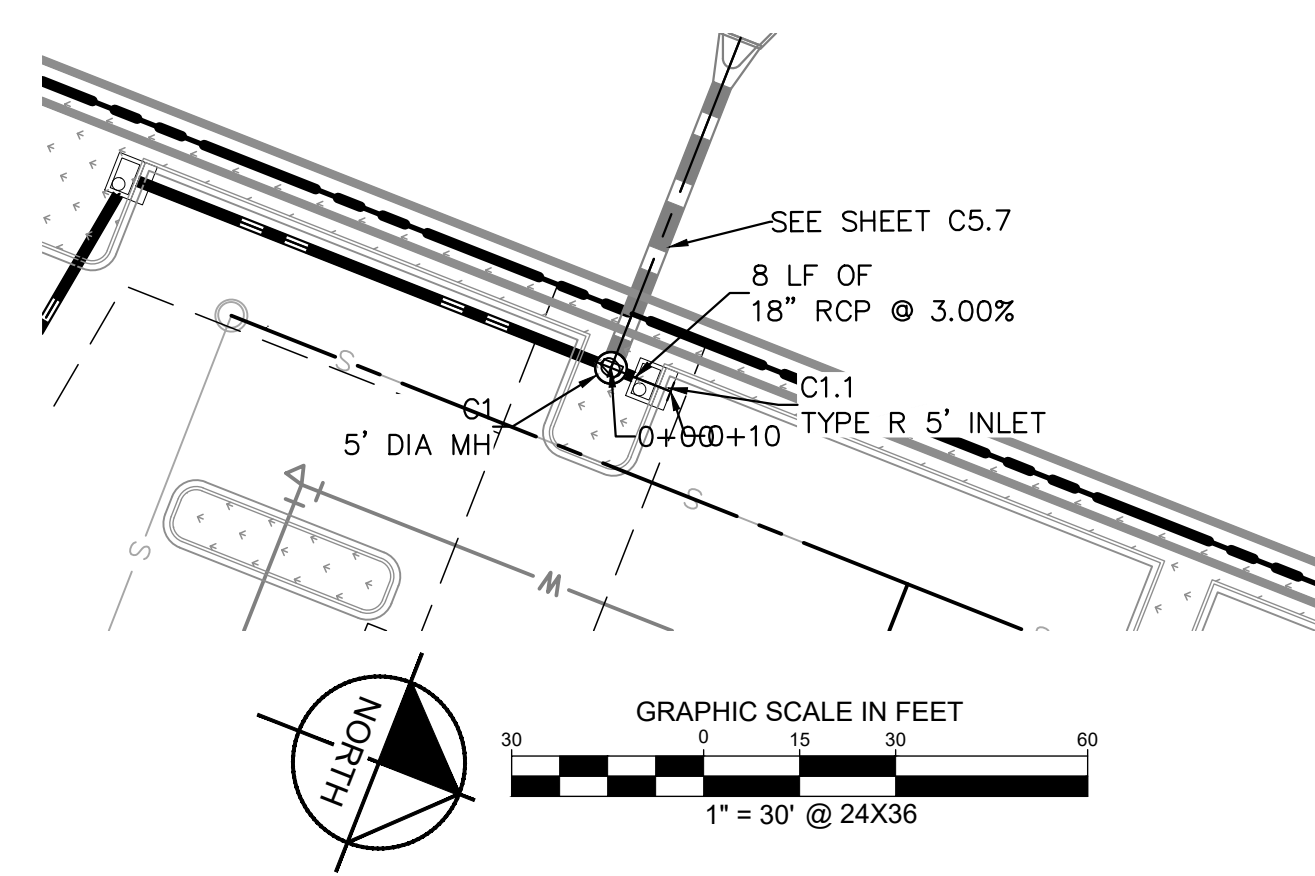
PARKER AND PINE FILING NO. 2 LOTS 1-3
 PARKER, CO
 MULTI-FAMILY CONSTRUCTION DOCUMENTS
STORM - A PLAN & PROFILE

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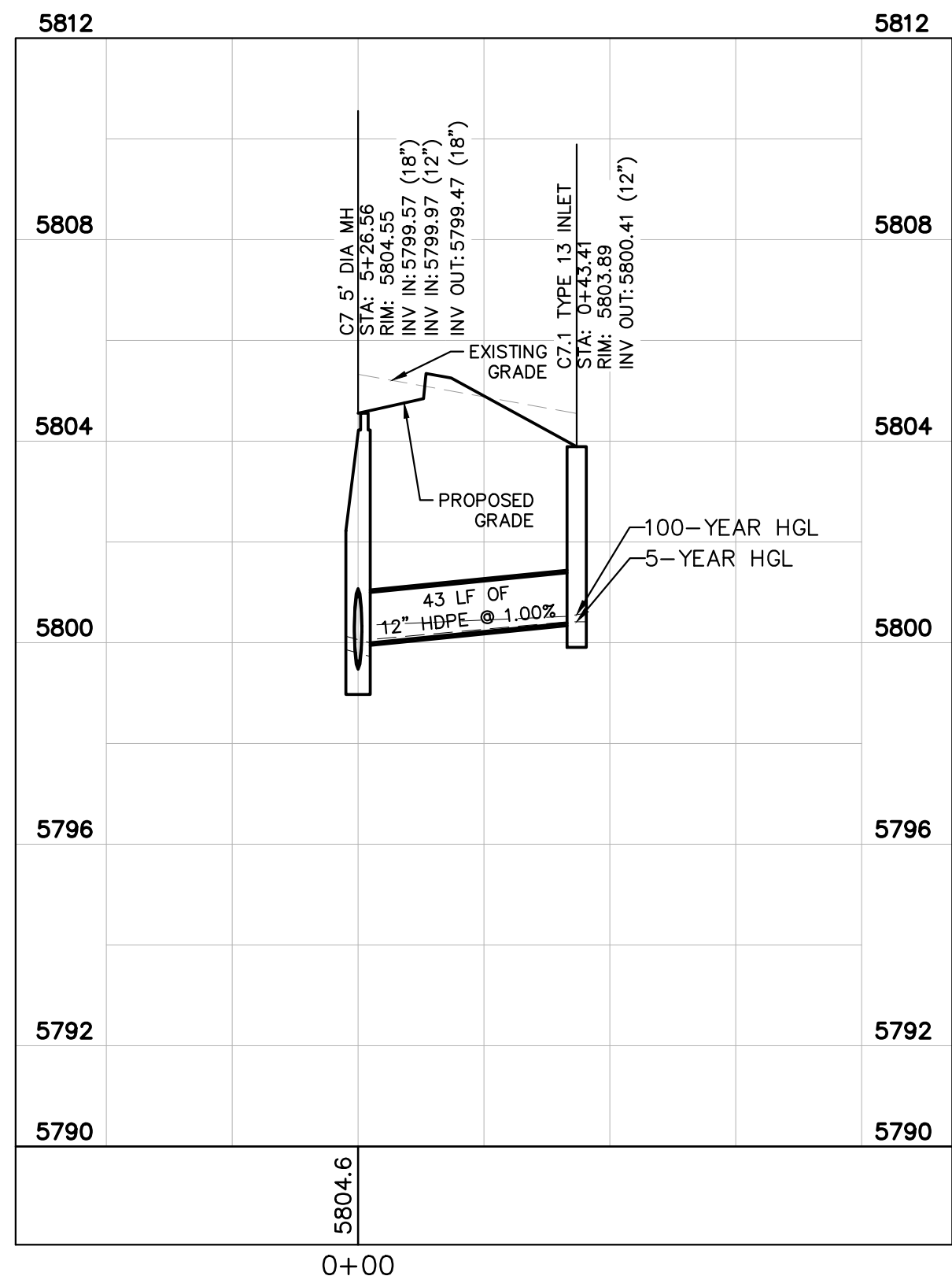
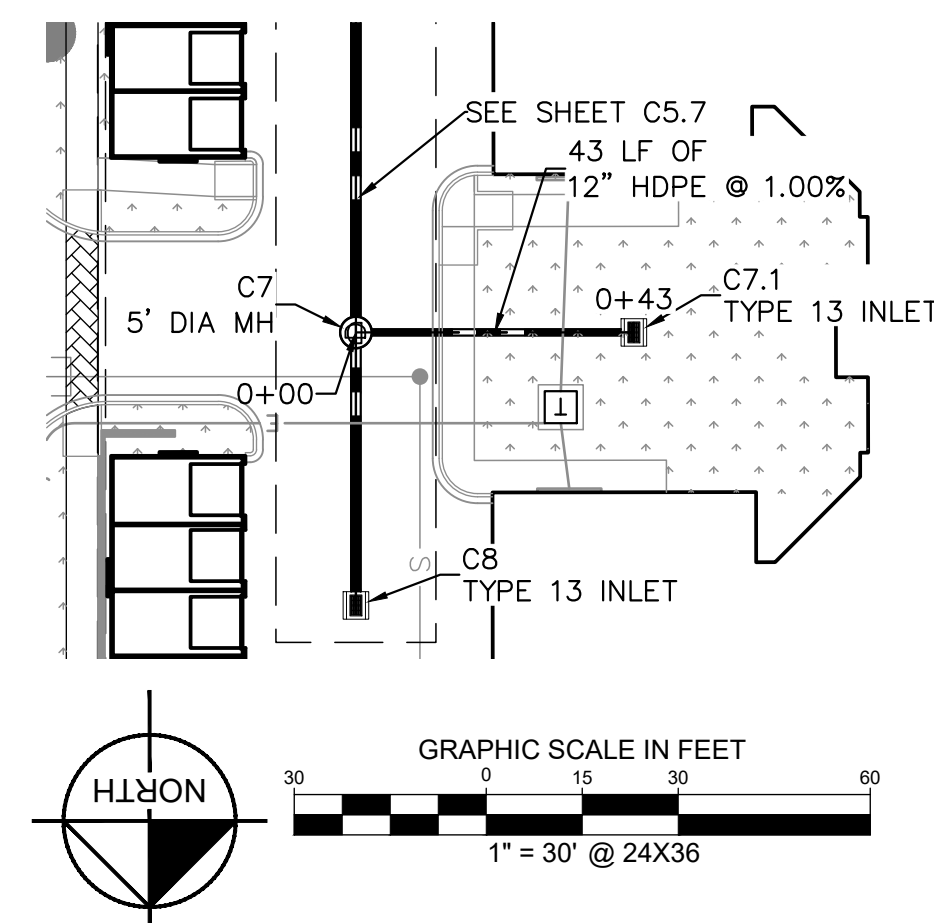
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 096481002
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 096481002CD_STM
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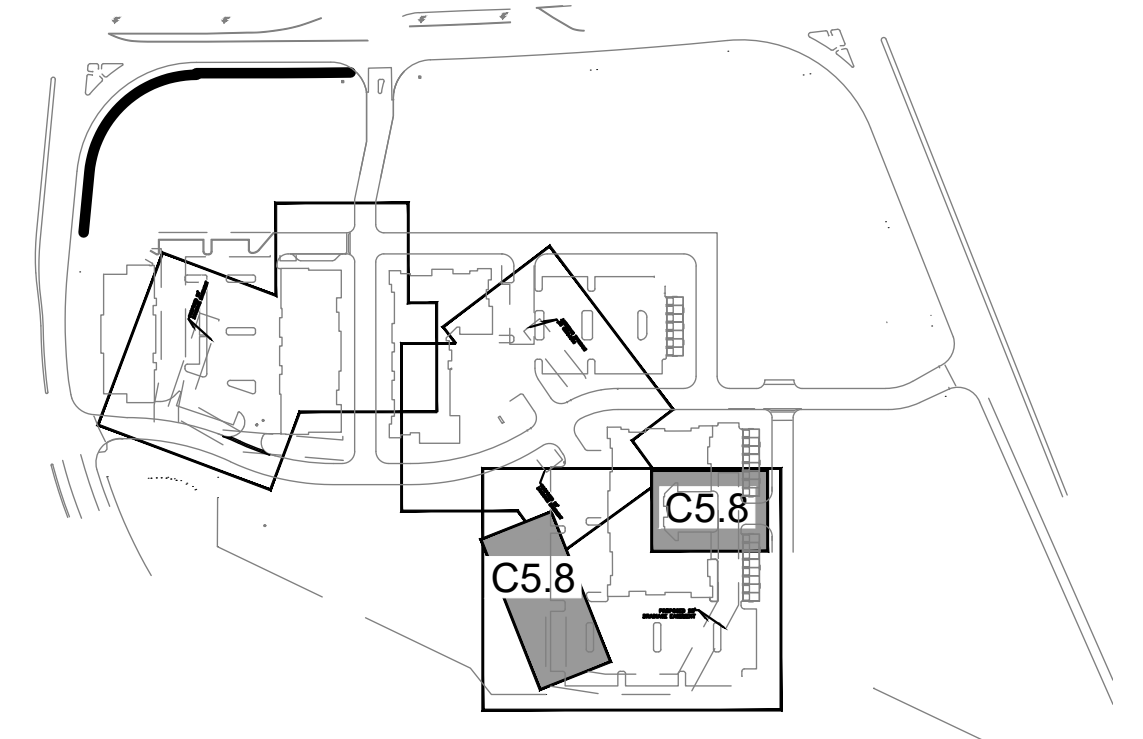
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STORM LINE C2 PROFILE
 [STA 0+00 TO 0+09]
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'



STORM LINE C3 PROFILE
 [STA 0+00 TO 0+43]
 HORIZONTAL SCALE: 1"=30'
 VERTICAL SCALE: 1"=3'



KEYMAP
 NOT TO SCALE

LEGEND
 - - - - - PROPERTY LINE
 --- PROPOSED STORM SEWER
 □ PROPOSED STORM INLET
 ● PROPOSED STORM MANHOLE

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 CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____



NO.	REVISION	BY	DATE

Kimley»Horn
 2020 KIMLEY-HORN AND ASSOCIATES, INC.
 4582 South Ulster Street, Suite 1500
 Denver, Colorado 80237 (303) 228-2300

DESIGNED BY: DLS
 DRAWN BY: JRK
 CHECKED BY: DLS
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PARKER AND PINE FILING NO. 2 LOTS 1-3
 PARKER, CO
 MULTI-FAMILY CONSTRUCTION DOCUMENTS
STORM - D PLAN & PROFILE

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 Date: 10/16/2010 10:57 AM
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GENERAL NOTES

- 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.
- THE PRECAST FLAT TOP MAY BE USED ON ANY MANHOLE, THE ECCENTRIC CONE MAY BE USED WHEN THE MANHOLE TOP HEIGHT IS AT LEAST 8'-0".
- THE MANHOLE RING FRAME SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE CONCREDED WITH A CONCRETE GROUT IN UNPAVED AREA OR A CONCRETE COLLAR IN PAVED AREA. SEE DETAILS ON SHEETS 2 AND 3.
- DESIGN OF BED BASE IS BASED ON STRAIGHT RISE OF PIPE OR CHANGE IN DIRECTION OF LESS THAN 45° SPECIAL DESIGN IS REQUIRED FOR 45° OR GREATER.
- PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO ASTM M 198 (ASTM C 478).
- CAST-IN-PLACE MANHOLES SHALL BE CLASS B CONCRETE. 5 STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3 FT. 6 IN. AND SHALL CONFORM TO ASTM M 199.
- 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" MIN. WINDOW CLEARANCE.
- ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY OPEN CHANNELIZATION ADAPTERS FOR PIPE SIZE, SHAPE, ALICE, AND DIRECTION OF FLOW DETAILS SHOWN ARE TYPICAL FOR INSTALLATIONS WITH AN INVERT OF SAME RELATIVE ELEVATION FOR EXCESSIVE ELEVATION DIFFERENCE BETWEEN INVERTS SPECIAL BRACKETING DETAILS WILL BE SHOWN ON THE PLANS.
- FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
- STRENGTH SHALL EXCEED 8 FT. MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLOTTED.
- THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE MANHOLE PROFILE AND CROSS SLOPE.
- WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER 1/2" MIN TO 3/4" MAX.

MARK	SIZE	TYPE	WT. W/FT.	NO.	QTY.	FORMULA
401	4	I	0.668	1	1	401 BAR LENGTH = 32" + 2W + 1.0.
402	4	III	0.668	1	1	402 BAR LENGTH = 1.0 + 2W
500	5	I	1.043	1	1	500 NUMBER BARS REQ'D = 3 + 4 (24" x 12" x 4")
501	5	I	1.043	1	1	501 BAR LENGTH = 24" + 1.0 + 2W
502	5	II	1.043	1	1	502 NUMBER BARS REQ'D = 2 (24" x 12" x 4")
503	5	II	1.043	1	1	503 BAR LENGTH = 32" + 2W + 1.0.
504	5	I	1.043	1	1	504 BAR LENGTH = 24" + 1.0 + 2W
100	11	I	5.333	1	1	100 TYPE III
100	11	I	5.333	1	1	100 TYPE II
100	11	I	5.333	1	1	100 TYPE I

QUANTITIES FOR CONCRETE MANHOLE BOX BASE

MARK	SIZE	TYPE	WT. W/FT.	NO.	QTY.	FORMULA
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100	11	I	5.333	1	1	100 TYPE III
100	11	I	5.333	1	1	100 TYPE II
100	11	I	5.333	1	1	100 TYPE I

T-BASE MANHOLES NOTES

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

MANHOLE T-BASE

SECTION F-F ADJUST MANHOLE 20 IN. OR LESS

SECTION F-F MODIFY MANHOLE GREATER THAN 20 IN.

SECTION G-G CIRCULAR RIGID PIPE (LONGITUDINAL SECTION)

SECTION G-G CIRCULAR RIGID PIPE (TRANSVERSE SECTION)

BACK OF CURB

FACE OF CURB

GUTTER WIDTH TRANSITION DETAIL

SECTION A-A BOLLARD DETAIL

SECTION B-B BOLLARD DETAIL

SECTION C-C BOLLARD DETAIL

SECTION D-D BOLLARD DETAIL

SECTION E-E BOLLARD DETAIL

SECTION F-F BOLLARD DETAIL

SECTION G-G BOLLARD DETAIL

LEGEND

- SUITABLE SUBGRADE
- GRANULAR BEDDING MATERIAL
- CONCRETE

PRECAST MANHOLE BASES NOTES:

- THE BASE SLAB SHALL BE FORMED MONOLITHICALLY WITH BOTTOM RISER SECTION.
- 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 HIS OWN COST TO THE DEPARTMENT.
- PRECAST MANHOLE BASES SHALL BE BEDDED ON AN APPROVED GRANULAR BEDDING MATERIAL AS SHOWN ABOVE.

D9 BOLLARD DETAIL

D10 BOLLARD DETAIL

NO.	REVISION	BY	DATE	APPR

Kimley»Horn

2020 KIMLEY-HORN AND ASSOCIATES, INC.
 4582 South Ulster Street, Suite 1500
 Denver, Colorado 80237 (303) 228-2300

DESIGNED BY: DLS
 DRAWN BY: JRK
 CHECKED BY: DLS
 DATE: 02/16/21

PARKER AND PINE FILING NO. 2 LOTS 1-3
 PARKER, CO
 MULTI-FAMILY CONSTRUCTION DOCUMENTS
 DETAILS

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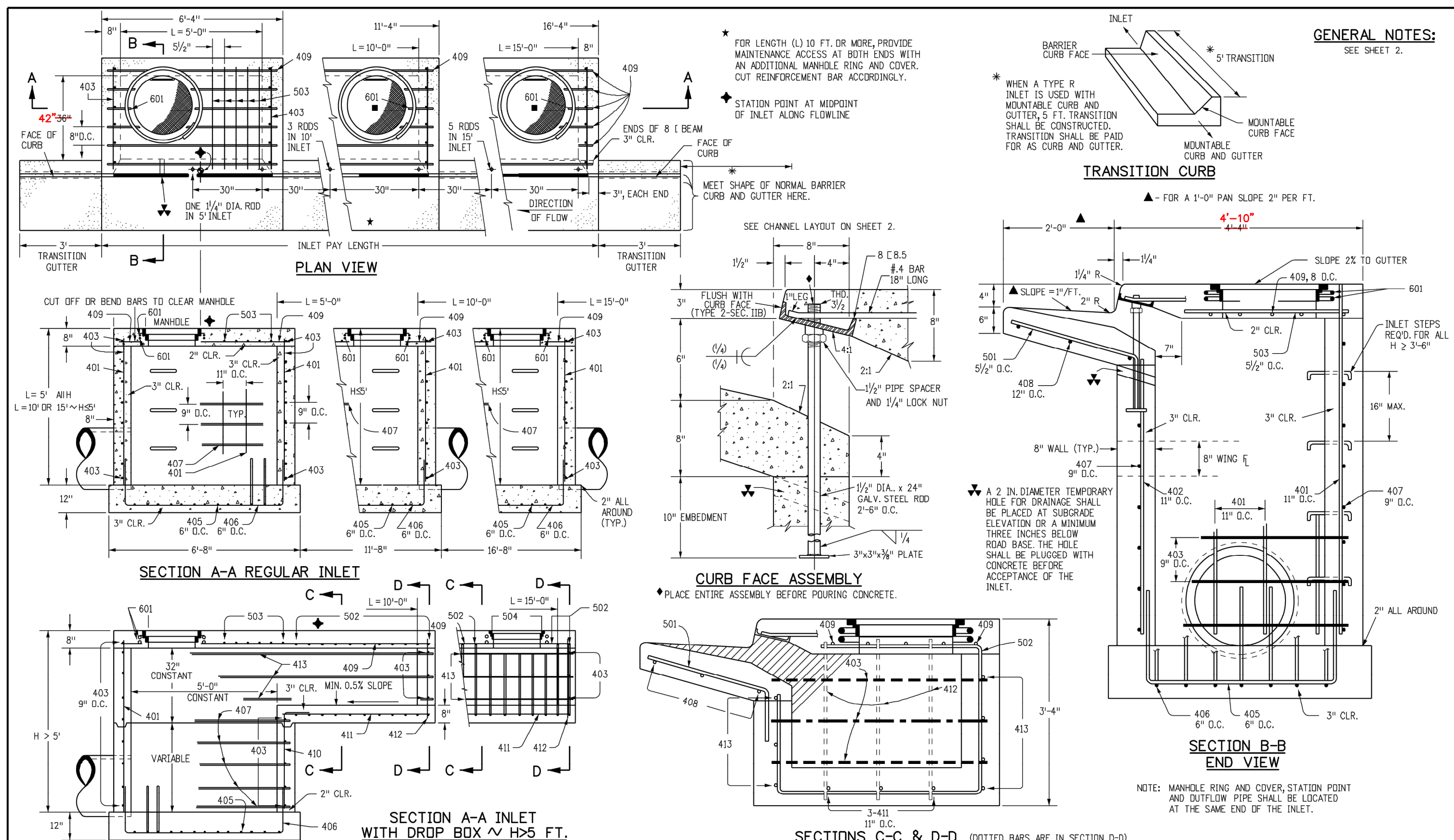
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PROJECT NO.
 096481002

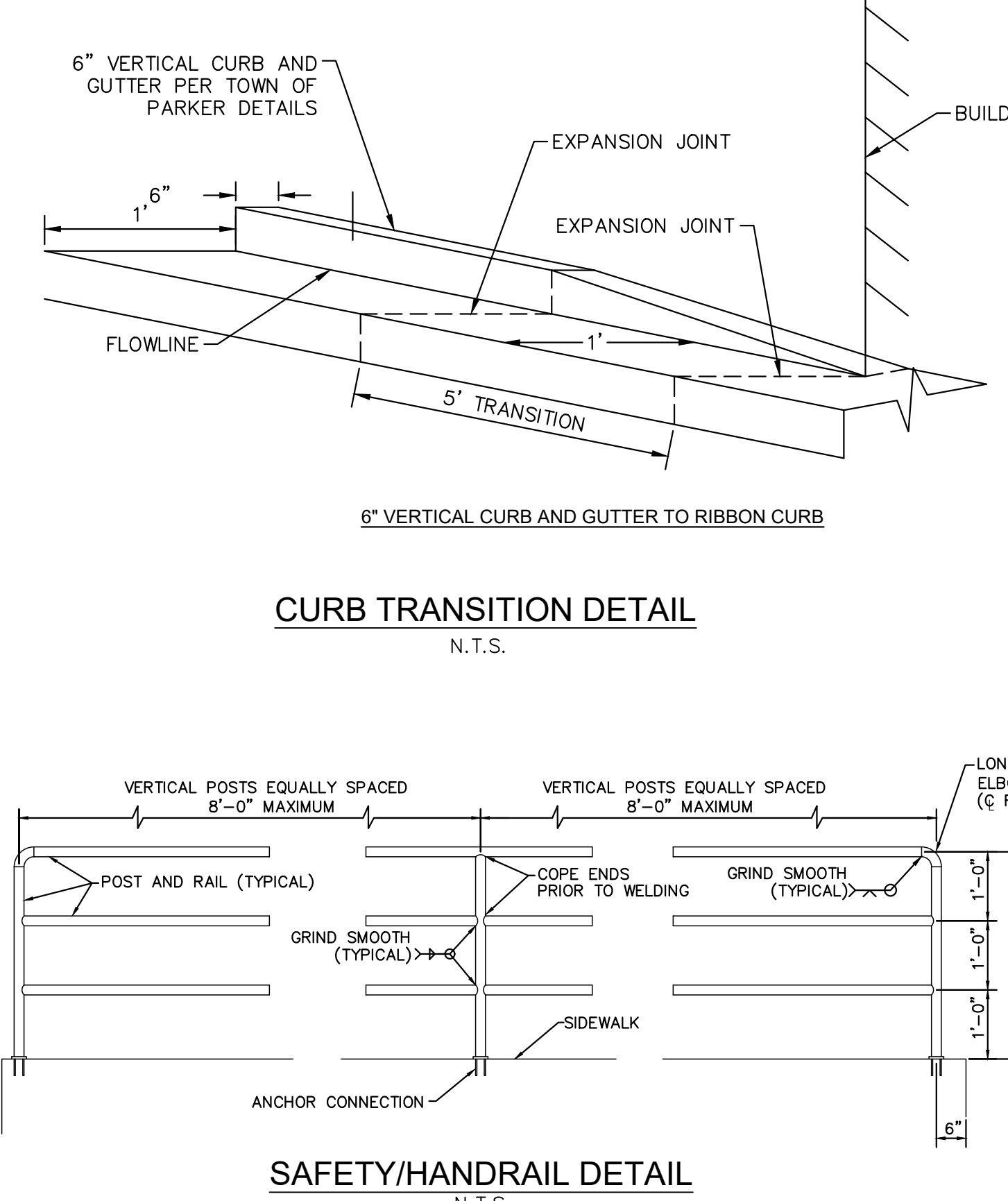
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Last Modification Date: 07/04/12	Initials: LTA			Phone: (303) 757-9083	Fax: (303) 757-9820	Sheet No. 1 of 2	
Full Path: www.colorado.gov/info/business/designsupport				Project Development Branch	DD/LTA	Issued By: Project Development Branch July 4, 2012	
Drawing File Name: 6040120202.dwg							
CAD Ver: MicroStation V8	Scale: Not to Scale	Units: English					



- GENERAL NOTES:**
- FOR LENGTH 6.0 TO 10 FT. OR MORE, PROVIDE MAINTENANCE ACCESS AT BOTH ENDS WITH AN ADDITIONAL MANHOLE RING AND COVER. BUT REINFORCEMENT BAR ACCORDINGLY.
 - STATION POINT AT MIDPOINT OF INLET ALONG FLOWLINE.
 - MEET SHAPE OF NORMAL BARRIER CURB AND GUTTER HERE.
 - SEE CHANNEL LAYOUT ON SHEET 2.
 - FOR A 1-1/2" PAN SLOPE 2" PER FT.
 - WHEN A TYPE R INLET IS USED WITH MOUNTABLE CURB AND GUTTER, 5 FT. TRANSITION SHALL BE CONSTRUCTED. TRANSITION SHALL BE PAID FOR AS CURB AND GUTTER.
 - FOR A 2 IN. DIAMETER TEMPORARY HOLE FOR DRAINAGE SHALL BE PLACED AT SUBGRADE ELEVATION OF A MINIMUM THREE INCHES BELOW ROAD BASE. THE HOLE SHALL BE PLUGGED WITH CONCRETE BEFORE ACCEPTANCE OF THE INLET.
 - MANHOLE RING AND COVER, STATION POINT AND OUTFLOW PIPE SHALL BE LOCATED AT THE SAME END OF THE INLET.
- NOTES:**
- BROOM FINISH ALL SURFACES.
 - CURB MAY BE SPILL OR CATCH AS INDICATED ON PLANS.
 - JOINT SPACING 10' MAXIMUM.
- NOTES:**
- POSTS AND RAILS SHALL BE 1.5" SCHEDULE 40 HOT-DIPPED GALVANIZED STEEL PIPE ASTM A 53, GRADE A (2.72 #/LF, 1.9" O.D.).
 - PAINT RAIL BLACK SHOP PRIME WITH RUST INHIBITING PRIMER (FIELD REPAIR PRIMER AS NEEDED).
 - VERTICAL POSTS TO BE EVENLY SPACED.
 - REMOVE ALL SHARP EDGES.
 - INSTALL SAFETY RAIL AS REQUIRED BY PLANS OR SPECIFICATIONS.

MARK	BAR # OR SIZE	O.C. SPACING	TYPE	ALL INLETS				INLETS H < 5 FT.				INLETS H > 5 FT.			
				L = 5 FT.	L = 10 FT.	L = 15 FT.	L = 10 FT.	L = 15 FT.	L = 10 FT.	L = 15 FT.	L = 10 FT.	L = 15 FT.			
401	4	11"	II	15	7	21	11	13	18	7	11	7	8-10"	7	8-10"
402	4	11"	II	7	13	18	11	13	18	7	11	7	8-10"	7	8-10"
403	4	9"	II	7	13	18	11	13	18	7	11	7	8-10"	7	8-10"

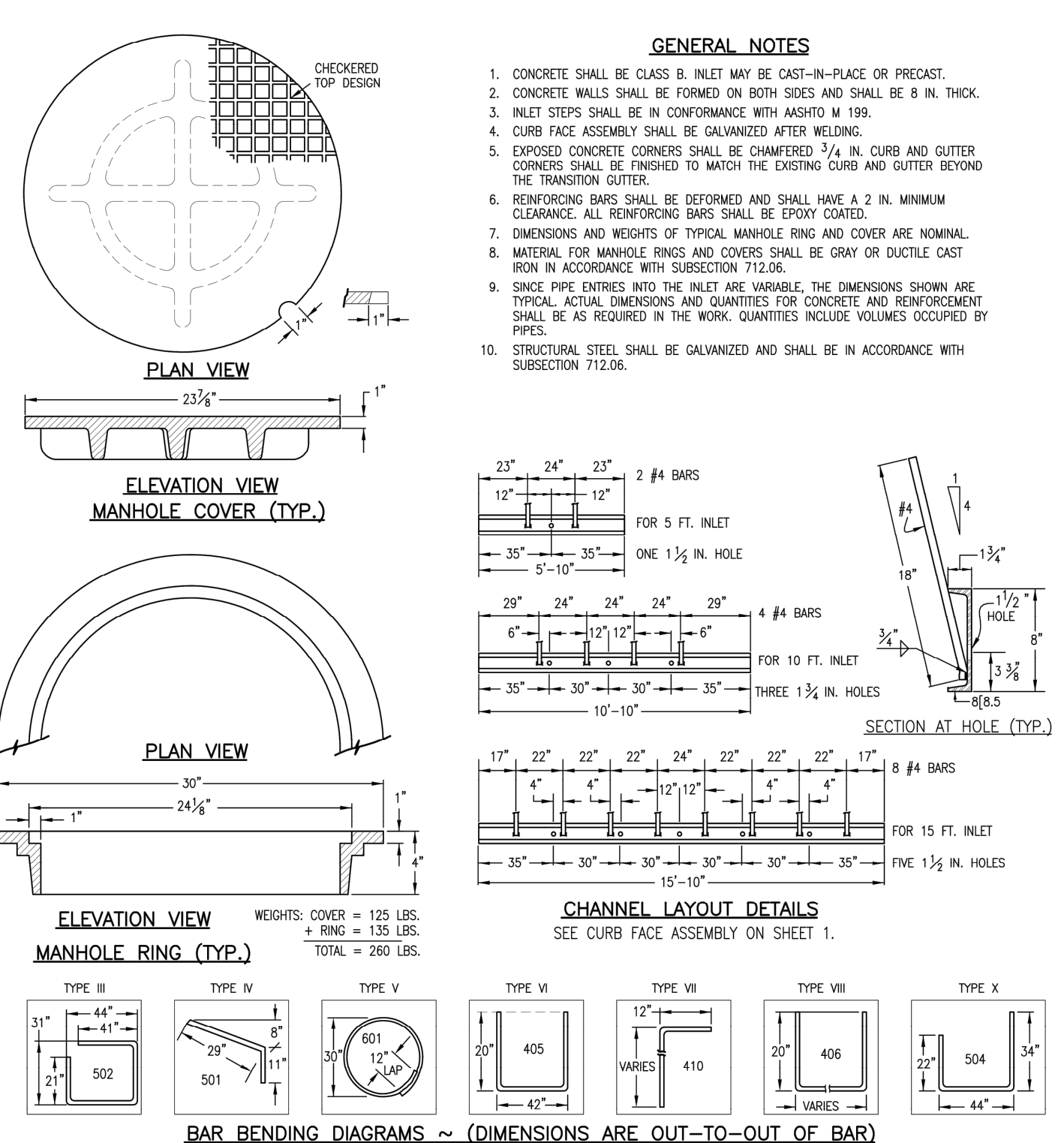
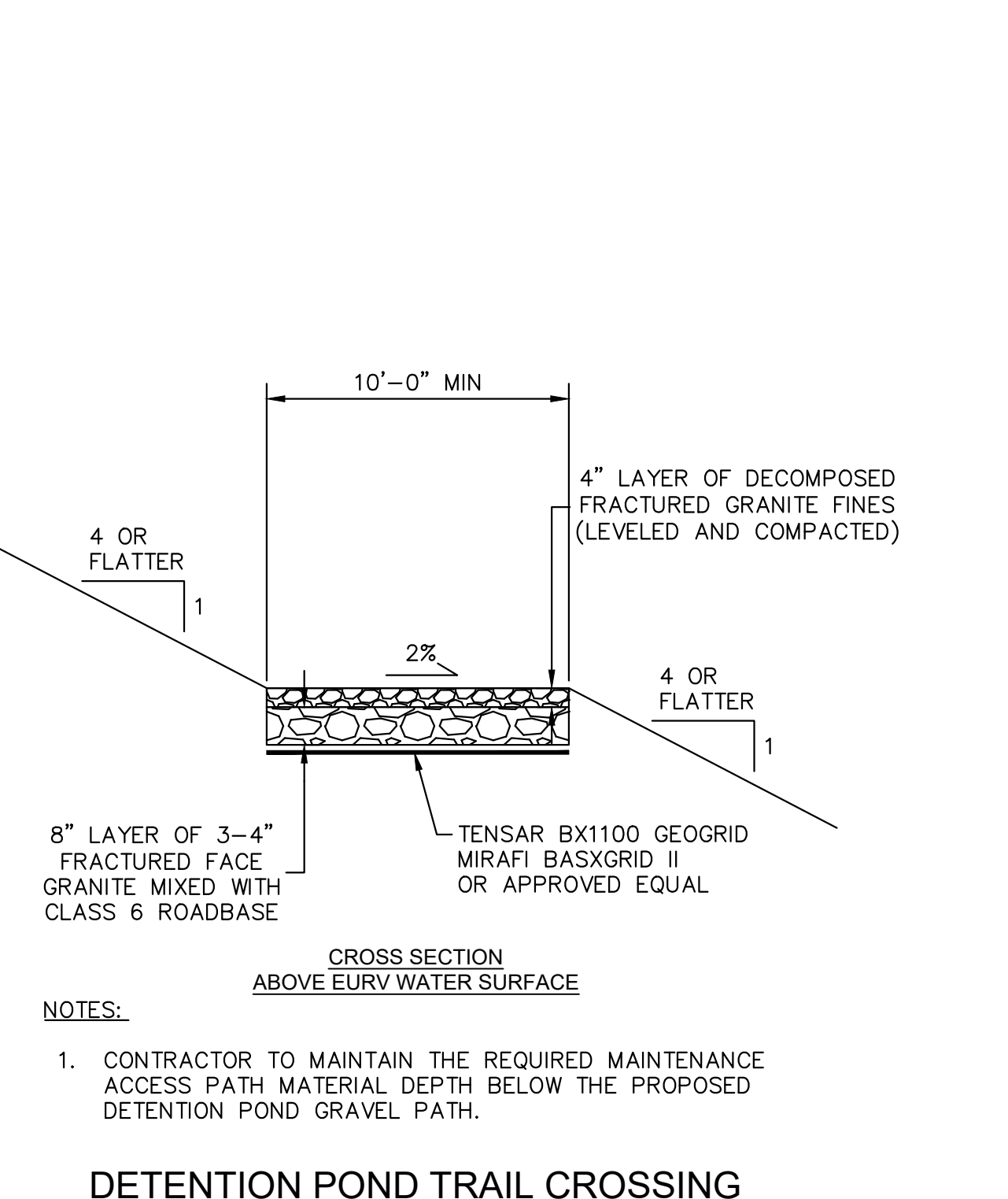
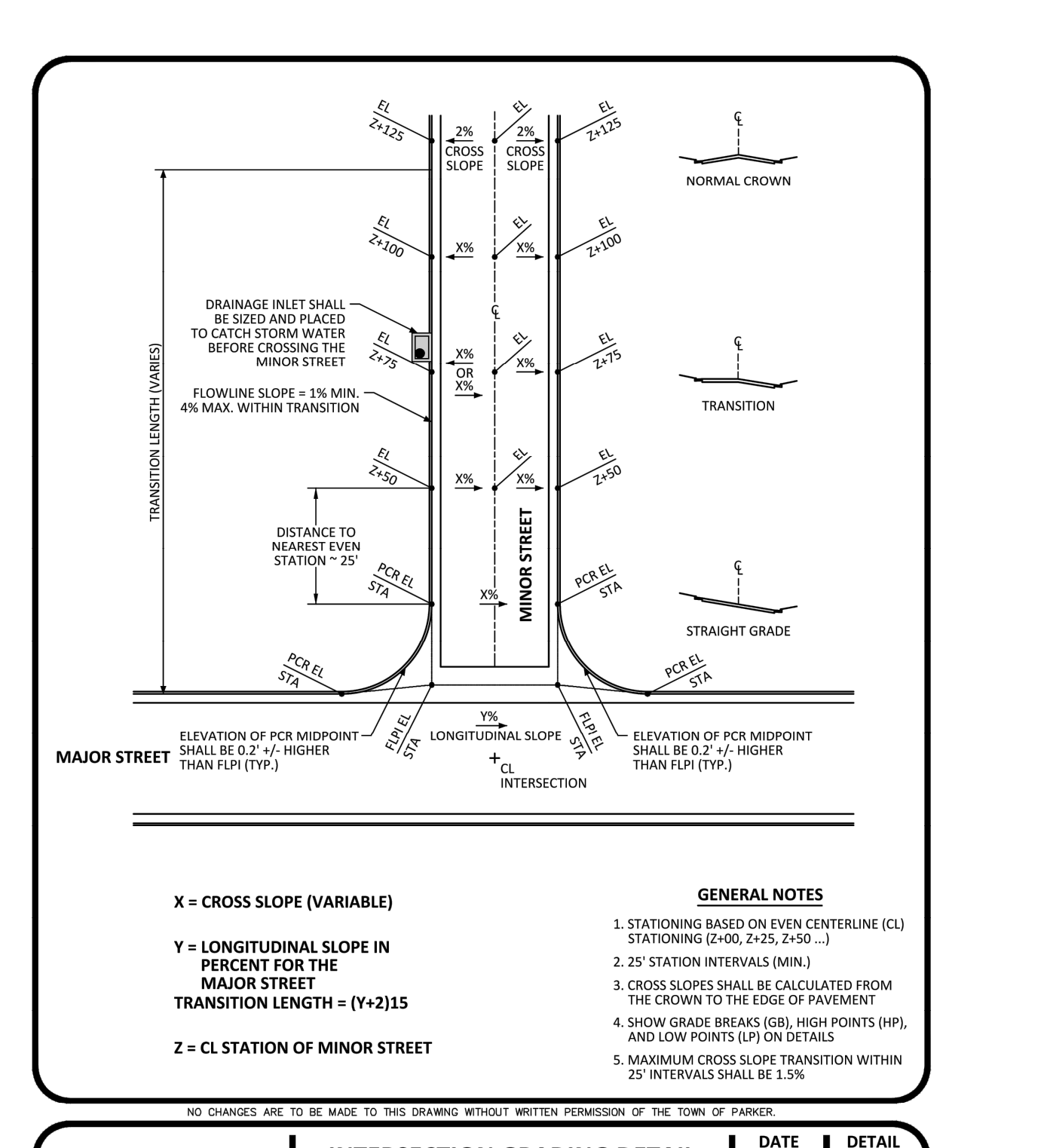


TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

"H"	LENGTH	REGULAR		DROP BOX		L = 5 FT.		L = 10 FT.		L = 15 FT.	
		NO. REQ'D.	CONC. STEEL CU. YDS.	NO. REQ'D.	CONC. STEEL CU. YDS.	CONC. STEEL CU. YDS.	CONC. STEEL CU. YDS.	CONC. STEEL CU. YDS.	CONC. STEEL CU. YDS.	CONC. STEEL CU. YDS.	CONC. STEEL CU. YDS.
3'-0"	2'-8"	1-8"	10	7	3.2	285	5.3	497	7.4	708	
3'-0"	3'-2"	2'-2"	10	7	3.4	305	5.7	508	7.9	747	
4'-0"	3'-8"	2'-8"	12	9	3.7	326	6.0	559	8.4	788	
4'-0"	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'-0"	5'-2"	4'-2"	14	11	4.4	375	6.0	607	7.4	850	
6'-0"	5'-8"	4'-8"	16	13	4.6	382	6.2	616	7.6	860	
6'-0"	6'-2"	5'-2"	16	13	4.8	402	6.4	637	7.8	880	
7'-0"	6'-8"	5'-8"	20	17	5.0	423	6.6	654	8.0	897	
7'-0"	7'-2"	6'-2"	20	17	5.3	430	6.9	664	8.3	907	
8'-0"	7'-8"	6'-8"	22	19	5.5	451	7.1	684	8.5	927	
8'-0"	8'-2"	7'-2"	24	21	5.7	471	7.3	702	8.7	944	
9'-0"	8'-8"	7'-8"	24	21	6.0	479	7.6	711	9.0	954	
9'-0"	9'-2"	8'-2"	26	23	6.2	489	7.8	732	9.2	974	
10'-0"	9'-8"	8'-8"	28	25	6.4	520	8.0	749	9.4	992	
10'-0"	10'-2"	9'-2"	28	25	6.7	527	8.3	759	9.7	1001	
11'-0"	10'-8"	9'-8"	30	27	6.9	547	8.5	779	9.9	1022	

Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
Creation Date: 07/04/06	Initials: SRJ	Date:	Comments:	4201 East Arkansas Avenue	Denver, Colorado 80222	M-604-12	
Last Modification Date: 02/04/06	Initials: LTA			Phone: (303) 757-9083	Fax: (303) 757-9820	Sheet No. 2 of 2	
Full Path: www.dot.state.co.us/DesignSupport/				Project Development Branch	SRJ/LTA	Issued By: Project Development Branch on July 04, 2006	
Drawing File Name: 6040120202.dwg							
CAD Ver: MicroStation V8	Scale: Not to Scale	Units: English					



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PARKER AND PINE FILING NO. 2 LOTS 1-3
 PARKER, CO
 MULTI-FAMILY CONSTRUCTION DOCUMENTS
 DETAILS

Kimley»Horn
 2020 KIMLEY-HORN AND ASSOCIATES, INC.
 4582 South Ulster Street, Suite 1500
 Denver, Colorado 80237 (303) 228-2300

DESIGNED BY: DLS
 DRAWN BY: JRK
 CHECKED BY: DLS
 DATE: 02/16/21

PRELIMINARY
 FOR REVIEW ONLY
 NOT FOR CONSTRUCTION
Kimley»Horn
 Kimley-Horn and Associates, Inc.
 PROJECT NO.
 096481002
 DRAWING NAME
 096481002PW_DT
 C6.2