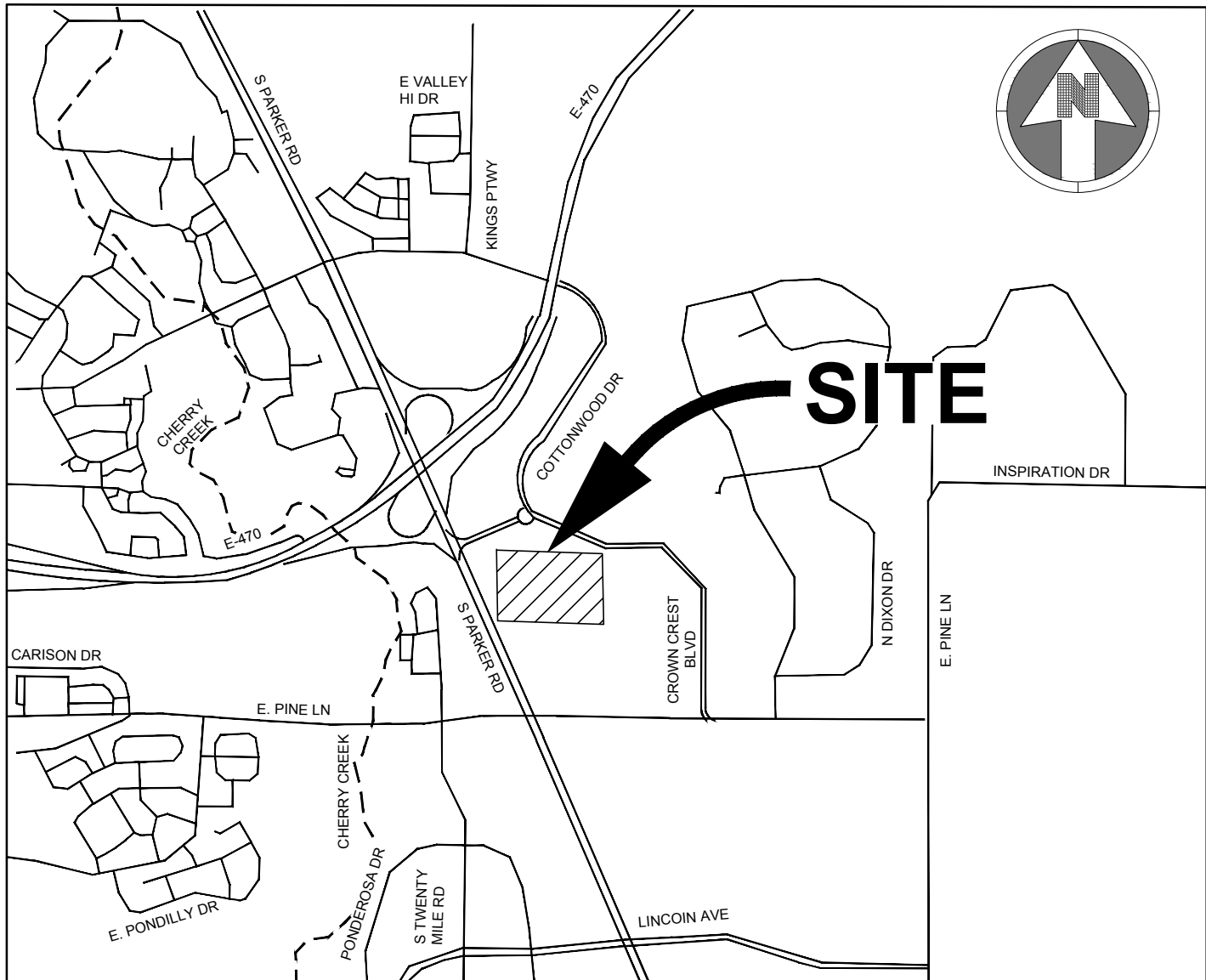


ADVENTHEALTH PARKER EXPANSION

CROWN POINT FILING 1 AMENDMENT 30, LOT 1, TRACT A & B
IN THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, DOUGLAS COUNTY, COLORADO



VICINITY MAP

SCALE: 1"=2000'

ENGINEER'S STATEMENT

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THE PROPOSED SUBDIVISION, ADVENTHEALTH PARKER EXPANSION, IS DESIGNED IN ACCORDANCE WITH THE TOWN OF PARKER SIGHT DISTANCE CRITERIA AND WITH AASHTO *POLICY ON GEOMETRIC DESIGN OF HIGHWAY & STREETS*.

MEGAN HUERTER VOGT
REGISTERED PROFESSIONAL ENGINEER
COLORADO NO. 47666

AGENCY LIST

CORE ELECTRICAL COOPERATIVE
PO DRAWER A
5496 US HWY 85
SEDALIA, CO. 80135
303-888-3100
CONTACT: BROOKS KAUFMAN

FIRE-SOUTH METRO FIRE RESCUE
9195 E. MINERAL AVE
CENTENNIAL, CO 80112
720-989-2000
CONTACT: RANDY CAPRA

TOWN OF PARKER-PUBLIC WORKS
20120 E. MAINSTREET
PARKER, CO 80134
303-840-9546
CONTACT: MIKE WAUGH

CABLE-COMCAST
6850 S. TUSCON WAY
ENGLEWOOD, CO. 80112
303-603-5605
CONTACT: KEVIN YOUNG

TRI-COUNTY HEALTH DEPARTMENT
7000 E. BELLEVUE AVENUE
GREENWOOD VILLAGE, CO. 80111
303-220-9200
CONTACT: CAROL MACLENNAN

CROWN POINT ARCHITECTURAL
CONTROL COMMITTEE
27905 MEADOW DRIVE, SUITE 11
EVERGREEN, CO 80439 303-674-7856
CONTACT: TIM LEONARD

GAS-XCEL ENERGY
2070 SOUTH VALENTIA STREET
DENVER, CO. 80231
1-800-628-2121
CONTACT: DESIGN MANAGER

TOWN OF PARKER
PLANNING AND BUILDING DEPT.
20120 E. MAIN STREET
PARKER, CO. 80134
303-841-2332
CONTACT: PAUL WORKMAN

COTTONWOOD WATER & SANITATION DISTRICT
2 INVERNESS DRIVE EAST
ENGLEWOOD, CO
303-792-9509
CONTACT: PATRICK MULHERN/ LAURI TATLOCK

TELEPHONE - CENTURY LINK
LOCAL NETWORK OPERATIONS
9750 E. COSTILLA AVENUE
ENGLEWOOD, CO. 80112
303-792-1840
CONTACT: KAREN CAIME

COTTONWOOD WATER AND SANITATION
DISTRICT ENGINEER-KENNEDY JENKS CONSULTING
143 UNION BOULEVARD
SUITE 600
LAKEWOOD, CO 80228
PHONE: 303-985-3636
CONTACTS: TOM NAPOLILLI

OWNER INFORMATION

ADVENTHEALTH PARKER
9395 CROWN CREST BLVD.
PARKER, CO. 80138
303-269-4014

DESIGN INFORMATION

ARCHITECT: BOULDER ASSOCIATES
PHONE: 303-499-7795

ARCHITECT: SMITHGROUP
PHONE: 303-832-3272

CIVIL ENGINEER: S. A. MIRO, INC
PHONE: 303-741-3737

LANDSCAPE ARCHITECT: OXBOW DESIGN COLLABORATION
PHONE: 720-465-6168

STRUCTURAL ENGINEER: MGA STRUCTURAL ENGINEERS, INC.
PHONE: 719-635-4473

MEPT ENGINEERS: CATOR RUMA & ASSOCIATES CO
PHONE: 303-232-6200

FIRE PROTECTION: TLH FIRE
PHONE: 303-517-1775

BASIS OF BEARING:

BEARINGS ARE BASED ON THE LINE FROM CONTROL POINT 200 TO CONTROL POINT 201, MONUMENTED AS SHOWN HERON BEARING N 53°47'17" E.

BENCHMARK:

BASIS OF ELEVATIONS: BEARINGS ARE BASED ON CONTROL POINT 200 BEING AN ELEVATION OF 5825.42

Sheet List Table	
Sheet Number	Sheet Title
C000	COVER SHEET
C001	CIVIL NOTES AND LEGEND
C021	OVERALL SITE PLAN
C022	SITE PLAN
C023	SITE PLAN
C111	DEMOLITION PLAN
C112	DEMOLITION PLAN
C121	HORIZONTAL CONTROL PLAN
C122	HORIZONTAL CONTROL DATA
C123	HORIZONTAL CONTROL DATA
C211	GRADING PLAN
C212	GRADING PLAN
C240	EROSION CONTROL COVER SHEET
C241	INITIAL EROSION CONTROL PLAN
C242	INITIAL EROSION CONTROL PLAN
C243	INTERIM EROSION CONTROL PLAN
C244	INTERIM EROSION CONTROL PLAN
C245	FINAL EROSION CONTROL PLAN
C246	FINAL EROSION CONTROL PLAN
C251	EROSION CONTROL DETAILS
C252	EROSION CONTROL DETAILS
C253	EROSION CONTROL DETAILS
C254	EROSION CONTROL DETAILS
C255	EROSION CONTROL DETAILS
C256	EROSION CONTROL DETAILS
C257	EROSION CONTROL DETAILS
C258	EROSION CONTROL DETAILS
C259	EROSION CONTROL DETAILS
C331	STORM PLAN AND PROFILE
C332	STORM PLAN AND PROFILE
C333	STORM PLAN AND PROFILE
C351	STORM DETAILS
C352	STORM DETAILS
C353	STORM DETAILS
C411	PAVING PLAN
C412	PAVING PLAN
C451	SITE DETAILS
C452	SITE DETAILS
C500	WATER AND SANITARY COVER SHEET
C501	WATER AND SANITARY NOTES AND LEGEND
C511	UTILITY PLAN
C512	UTILITY PLAN
C531	SANITARY PLAN AND PROFILE
C532	SANITARY PLAN AND PROFILE
C551	WATER AND SANITARY DETAILS
C552	WATER AND SANITARY DETAILS
C553	WATER AND SANITARY DETAILS



S. A. MIRO, INC.
CIVIL + STRUCTURAL
CONSULTING ENGINEERS

4582 S. Ulster St., Suite 750
Denver, CO 80237
303-741-3737
www.samiro.com



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DATE	06/03/2024								
DESCRIPTION	1ST TOWN SUBMITTAL	2ND TOWN SUBMITTAL							
NO.	1	2							

PROJECT: ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

DRAWING TITLE: COVER SHEET

FILE PATH: C:\Users\leda\Documents\S.A. Miro, Inc.\CivilJobs\23079 AHP Expansion\05 CAD\Plans and Details\C000-COVR.dwg C000 - 8/16/2024

THIS DOCUMENT IS
SUBJECT TO CHANGE AS A
RESULT OF JURISDICTIONAL
APPROVALS. CONSTRUCTION
DOCUMENTS SHALL CONTAIN
THE APPROVAL SIGNATURES
OF THE REVIEWING ENTITIES.
THIS DOCUMENT IS NOT
FOR CONSTRUCTION.

DESIGNED BY: RJH
DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079

DRAWING NUMBER:

C000

Town of Parker, Director of Engineering/Public Works

Date

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH 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 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

The legend is divided into two main sections: **PROPOSED** and **EXISTING**.

PROPOSED symbols include:

- PROPERTY LINE**: A solid line.
- SECTION LINE**: A dashed line with a diamond symbol.
- RIGHT OF WAY LINE**: A solid line with a dashed line inside.
- CENTER LINE**: A dashed line.
- CURB AND GUTTER**: A solid line with a dashed line inside.
- SIDEWALK**: A solid line with a dashed line inside.
- WALL**: A solid line with a dashed line inside.
- FENCE**: A solid line with 'X' marks.
- SIGN**: A solid line with a 'T' symbol.
- LIGHT**: A solid line with a circle symbol.
- TREE**: A stylized tree symbol.
- MINOR CONTOURS**: A dashed line with the number 5343.
- MAJOR CONTOURS**: A solid line with the number 5345 and the letter 'RL'.
- RIDGE LINE**: A dashed line with the number 43.50.
- SPOT ELEVATION**: A circle with a crosshair and the number 43.50.
- CABLE TV LINE**: A solid line with the label 'CATV'.
- COMMUNICATION LINE**: A solid line with the label 'COMM'.
- ELECTRICAL LINE**: A solid line with the letter 'E'.
- OVERHEAD ELECTRICAL LINE**: A solid line with the label 'OE'.
- FIBER OPTIC LINE**: A solid line with the label 'FO'.
- GAS LINE**: A solid line with the letter 'G'.
- TELEPHONE LINE**: A solid line with the letter 'T'.
- IRRIGATION LINE**: A solid line with the label 'IRR'.
- RAW WATER LINE**: A solid line with the label 'RAW'.
- SANITARY SEWER LINE**: A solid line with the label 'SS'.
- STEAM LINE**: A solid line with the label 'ST'.
- STORM SEWER LINE**: A solid line with a dashed line inside.
- WATER LINE**: A solid line with the letter 'W'.
- EASEMENT**: A solid line with a dashed line inside.
- INLET**: A rectangle with a circle inside.
- FLARED END SECTIONS**: A rectangle with a circle inside.
- CLEANOUT**: A circle with a crosshair.
- FIRE HYDRANT**: A circle with a crosshair.
- VALVE**: A circle with a crosshair.
- WATER FITTINGS**: A circle with a crosshair.
- PEDESTAL**: A circle with a crosshair.
- UTILITY CROSSING**: A circle with a crosshair.
- MANHOLES**: Circles with the letters 'TV', 'COM', 'E', 'FO', 'T', 'S', 'D', 'W'.
- LAMBS TONGUE**: A solid line with a 'T' symbol.
- ROOF DRAIN**: A solid line with a 'T' symbol.
- OVERFLOW**: A solid line with a 'T' symbol.
- ELECTRIC VEHICLE PARKING STRIPING**: A solid line with a dashed line inside.

EXISTING symbols include:

- CURB AND GUTTER**: A solid line.
- SIDEWALK**: A solid line.
- WALL**: A solid line.
- FENCE**: A solid line with 'X' marks.
- SIGN**: A solid line with a 'T' symbol.
- LIGHT**: A solid line with a circle symbol.
- TREE**: A stylized tree symbol.
- MINOR CONTOURS**: A dashed line with the number 5343.
- MAJOR CONTOURS**: A solid line with the number 5345.
- SPOT ELEVATION**: A circle with a crosshair and the number 43.50.
- CABLE TV LINE**: A solid line with the label 'EX CATV'.
- COMMUNICATION LINE**: A solid line with the label 'EX COMM'.
- ELECTRICAL LINE**: A solid line with the letter 'EX E'.
- OVERHEAD ELECTRICAL LINE**: A solid line with the label 'EX OE'.
- FIBER OPTIC LINE**: A solid line with the label 'EX FO'.
- GAS LINE**: A solid line with the label 'EX G'.
- TELEPHONE LINE**: A solid line with the label 'EX T'.
- IRRIGATION LINE**: A solid line with the label 'EX IRR'.
- RAW WATER LINE**: A solid line with the label 'EX RAW'.
- SANITARY SEWER LINE**: A solid line with the label 'EX SS'.
- STEAM LINE**: A solid line with the label 'EX ST'.
- STORM SEWER LINE**: A solid line with the label 'EX SD'.
- WATER LINE**: A solid line with the label 'EX W'.
- EASEMENT**: A solid line with a dashed line inside.
- INLET**: A rectangle with a circle inside.
- FLARED END SECTIONS**: A rectangle with a circle inside.
- CLEANOUT**: A circle with a crosshair.
- FIRE HYDRANT**: A circle with a crosshair.
- VALVE**: A circle with a crosshair.
- PEDESTAL**: A circle with a crosshair.
- MANHOLES**: Circles with the letters 'TV', 'COM', 'E', 'FO', 'T', 'S', 'D', 'W'.

BV	BUTTERFLY VALVE	PCC	POINT OF COMPOUND CURVATURE
BOV	BLOW OFF VALVE	PCR	POINT OF CURB RETURN
BW	BOTTOM OF WALL @ FINISHED GRADE	PI	POINT ON INTERSECTION
CL	CENTERLINE	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PT	POINT OF TANGENCY
EJ	EXPANSION JOINT	PVC	POLYVINYL CHLORIDE
ELEC.	ELECTRIC	RCP	REINFORCED CONCRETE PIPE
ELEV.	ELEVATION	RCB	REINFORCED CONCRETE BOX
EX	EXISTING	RL	RIDGE LINE
FES	FLARED END SECTION	ROW	RIGHT OF WAY
FG	FINISHED GRADE	RT	RIGHT
FS	FINISHED SURFACE	SD	STORM DRAINAGE SEWER
FL	FLOWLINE	SS	SANITARY SEWER
GB	GRADE BREAK	STA:	STATION
HP	HIGH POINT	STRM	STORM SEWER
FH	FIRE HYDRANT	TOP	TOP OF FLANGE
INV.	INVERT	TOP	TOP OF PIPE
IRR	IRRIGATION	TW	TOP OF WALL @ FINISHED GRADE
KB	KICK BLOCK	TYP.	TYPICAL
LF	LINEAR FEET	VCP	VITRIFIED CLAY PIPE
LP	LOW POINT	VPC	VERTICAL POINT OF CURVATURE
LT	LEFT	VPI	VERTICAL POINT OF INTERSECTION
ME	MATCH EXISTING	VPT	VERTICAL POINT OF TANGENCY
MH	MANHOLE	WATR	WATER LINE
PC	POINT OF CURVATURE		

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 (5CCR 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 TO THE CONSTRUCTION OF ALL DRAINAGE INFRASTRUCTURE (STORM SEWERS, INLETS, MANHOLES, ENERGY DISSIPATORS, RIPRAP, GROUTED BOULDERS, DETENTION POND OUTLET STRUCTURES, FOREBAYS, TRICKLE CHANNELS, ETC). FAILURE TO NOTIFY THE ENGINEERING DEPARTMENT FOR INSPECTIONS MAY RESULT IN NON-ACCEPTANCE OF THE INFRASTRUCTURE BY THE TOWN. URBAN DRAINAGE AND FLOOD CONTROL DISTRICT MUST ALSO BE NOTIFIED IN A SIMILAR MANNER FOR ALL MAINTENANCE ELIGIBLE DRAINAGE INFRASTRUCTURES (CONSULT WITH STORMWATER ENGINEERING DIVISION).
4. STRUCTURAL BACKFILL (CDOT CLASS 1) SHALL BE COMPACTED TO CONFORM TO CDOT STANDARD SPECIFICATION 203.03. STRUCTURAL BACKFILL (CDOT CLASS 2) SHALL CONFORM TO CDOT STANDARD SPECIFICATION 203.07. AT THE CONTRACTOR'S OPTION, STRUCTURAL BACKFILL (SQUEEGEE) MEETING THE GRADATION REQUIREMENTS CONTAINED IN REVISION OF SECTION 206 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM, MAY BE SUBSTITUTED FOR STRUCTURE BACKFILL (CLASS 1 OR CLASS 2) FOR BACKFILLING OF CULVERT PIPES, STORM SEWER PIPES, MANHOLES AND INLET STRUCTURES; HOWEVER, THE TOP 2 FEET BELOW SUBGRADE ELEVATION SHALL BE THE REQUIRED EMBANKMENT MATERIAL.
5. ALL EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
6. TESTING: PROBATIONARY ACCEPTANCE OF STORM DRAINAGE IMPROVEMENTS WILL BE CONTINGENT UPON SATISFACTORY TESTING RESULTS. IN ALL CASES WHERE TESTS INDICATE COMPACTION LESS THAN THAT REQUIRED BY TOWN SPECIFICATIONS, ADDITIONAL COMPACTION TESTS WILL BE REQUIRED UNTIL THE SPECIFICATIONS ARE MET. FREQUENCY OF TESTING WILL BE AS FOLLOWS:
 - 1 TEST FOR EVERY 100 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 MANNER THAT THE ENDS ARE FULLY ENTERED AND THE INNER SURFACES ARE REASONABLY FLUSH. AVERAGE JOINT GAP THAT EXCEEDS 1/8 INCH SHALL BE FILLED WITH AN APPROVED FLEXIBLE PLASTIC SEALANT.
9. JOINT RESTRAINTS AND TOE-WALLS, CONFORMING TO CDOT M&S STANDARD PLAN NO. M-601-11 SHALL BE USED ON ALL RCP FLARED END SECTIONS OF ALL.
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 (RIPRAP) SHALL BE SHELLED 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.

1. ALL MATERIALS AND CONSTRUCTION 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 PRECONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A PRECONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE GRADING PERMIT AND ALL OTHER NECESSARY PERMITS HAVE BEEN OBTAINED.
4. THE TOWN INSPECTOR SHALL BE CONTACTED A MINIMUM OF 24 HOURS PRIOR TO A NECESSARY INSPECTION. IF A TOWN INSPECTOR IS NOT AVAILABLE AFTER PROPER NOTICE OF CONSTRUCTION ACTIVITY HAS BEEN PROVIDED, THE PERMITTEE MAY COMMENCE WORK IN THE TOWN INSPECTOR'S ABSENCE. HOWEVER, THE 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 IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS. 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 DIRECTOR OF ENGINEERING/PUBLIC WORKS, AND ONE (1) COPY OF THE ROADWAY DESIGN AND CONSTRUCTION CRITERIA AT THE JOB SITE AT ALL TIMES.
7. A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE TOWN OF PARKER FOR ACCEPTANCE WITH THE RIGHT-OF-WAY USE PERMIT APPLICATION. A PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR USE DURING CONSTRUCTION.
8. 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."
9. COMPACTION OF ALL TRENCHES MUST BE ATTAINED AND COMPACTION TEST RESULTS SUBMITTED TO THE DEVELOPMENT REVIEW DIVISION IN PRELIMINARY FORM PRIOR TO PAVING AND IN FINAL FORM PRIOR TO PROBATIONARY ACCEPTANCE.
10. 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.
11. 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.
12. PLANS ARE APPROVED FOR PERIOD OF 1 (ONE) YEAR FROM THE DATE SHOWN ON THE TOWN OF PARKER SIGNATURE BLOCK. PLANS SHALL BE RESUBMITTED TO THE TOWN FOR APPROVAL AFTER 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.
13. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR. SUCH RESTORATION MAY BE REQUIRED TO BE COMPLETED PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.
14. ALL DAMAGED EXISTING CURB, GUTTER, AND SIDEWALK SHALL BE REPAIRED PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.
15. 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 HEATH, WATER QUALITY CONTROL DIVISION, WQCD-PF-B2, 4300 CHERRY DRIVE SOUTH, DENVER, COLORADO 80222-1530. ATTENTION: PERMITS AND ENFORCEMENT SECTION. PHONE (303) 892-3500.
16. IF DETERMINED REQUIRED, A STATE CONSTRUCTION DETERMINING 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.
17. ALL REFERENCES TO BOOKS, PAGES, MAPS, AND RECEPTION NUMBER ARE PUBLIC DOCUMENTS ON FILE WITH THE COUNTY CLERK AND RECORDER'S OFFICE.

1. BASIS OF BEARINGS: BEARINGS ARE BASED ON THE LINE FROM CONTROL POINT 200 TO CONTRL POINT 201, MONUMENTED AS SHOWN HEREON BEARING N 53°47'17" E.
2. THE CONTRACTOR SHALL VERIFY THAT BUILDING GRID LOCATIONS ARE CONSISTENT WITH LATEST ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.

1. THE CONTRACTOR SHALL ADJUST EXISTING AND PROPOSED MANHOLES, WATER VALVES AND OTHER SURFACE APPURTENANCES WITHIN THE LIMITS OF WORK TO FINISHED GRADE.
2. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL/LANDSCAPE PLANS FOR CONCRETE SCORING PATTERNS, COLOR AND FINISHING.
3. PROPOSED PAVEMENT DESIGN IS BASED UPON THE GEOTECHNICAL REPORT BY KUMAR & ASSOCIATES, INC. DATED MARCH 28, 2024. S.A. MIRO, INC. MAKES NO WARRANTIES OR CERTIFICATION OF PAVEMENT PERFORMANCE.

1. LOCATION OF ALL EXISTING UTILITIES (PRIVATE AND PUBLIC) SHALL BE IDENTIFIED AND VERIFIED BY THE CONTRACTOR PRIOR TO MOBILIZATION, CONSTRUCTION AND ORDERING OF MATERIALS. IF ANY CONFLICTS OR DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL BEAR THE FULL COST OF REMOVAL, REPLACEMENT, REPAIR AND DELAYS RELATED TO ANY AND ALL UNVERIFIED EXISTING CONDITIONS.
2. ALL UTILITY LENGTHS AND QUANTITIES SHOWN ON THESE PLANS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND QUANTITIES PRIOR TO ORDERING OF ANY MATERIALS.
3. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
4. WHERE FLARED END SECTIONS ARE REQUIRED, THE LENGTH OF PIPE INCLUDES THE FLARED END SECTION.
5. ALL UTILITY WORK SHALL BE COMPLETED PRIOR TO ANY PAVING.
6. CONTRACTOR SHALL SURVEY THE LOCATION AND ELEVATION OF ALL INSTALLED UTILITIES PRIOR TO TRENCH BACKFILL, AND PROVIDE SURVEY INFORMATION TO THE ENGINEER UPON COMPLETION OF THE PROJECT FOR AS-BUILT DOCUMENTATION.

1. SITE GRADING (EXCAVATION, EMBANKMENTS, AND COMPACTION) SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST GEOTECHNICAL REPORT FOR THIS PROPERTY.
2. SPOT ELEVATIONS MAY BE ABBREVIATED FOR CLARITY. REFER TO THE ADJACENT CONTOUR LABELS FOR FULL ELEVATIONS.
3. MAXIMUM PROPOSED SLOPES SHALL BE 4:1 UNLESS NOTED OTHERWISE.
4. SPOT ELEVATIONS ARE TO FLOWLINE UNLESS NOTED OTHERWISE.
5. PROPOSED GRADING SHALL MEET AND MATCH EXISTING GRADE AT LIMITS OF DISTURBANCE.
6. PROPOSED GRADING AS SHOWN REFLECTS PLANNED FINISHED GRADE. THE CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTH, SUBGRADE REQUIREMENTS, OVEREXCAVATION, TOPSOIL, AND ANY EROSION/STABILIZING CONSTRUCTION.
7. MAXIMUM TEMPORARY SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND IN COMPLIANCE WITH OSHA REQUIREMENTS.
8. DIRECTIONAL SLOPE ARROWS INDICATE THE SLOPE OF THE FINISHED GRADE IN THE DIRECTION OF THE ARROW, TYPICALLY IN THE DIRECTION OF TRAVEL OR CROSS-SLOPE OF PROPOSED PAVEMENT. THE ARROW DOES NOT NECESSARILY POINT DOWNHILL IN THE DIRECTION OF MAXIMUM SLOPE.
9. THE GRADING AND STORM DRAINAGE DESIGN PRESENTED HEREIN IS DESIGNED TO CONVEY STORMWATER RUNOFF OFF-SITE DURING A 100-YEAR STORM EVENT. DURING AND FOLLOWING THIS STORM EVENT, FLOODING OF STREETS AND SITE MAY OCCUR. THE PROPOSED INTERIOR FINISHED FLOOR ELEVATION IS DESIGNED TO BE ABOVE THE WATER SURFACE LEVEL ASSOCIATED WITH THE 100-YEAR STORM EVENT. THIS APPROACH ADHERES TO THE CRITERIA DEVELOPED BY THE MILE HIGH FLOOD DISTRICT (MHFD), AS PRESENTED IN THE URBAN STORM DRAINAGE CRITERIA MANUAL, ALONG WITH THE LOCAL JURISDICTIONAL DRAINAGE REQUIREMENTS. THIS DESIGN CRITERIA REPRESENTS THE CURRENT BEST ENGINEERING PRACTICES IN THE REGION AND THE LOCAL STANDARD OF CARE.

A 100-YEAR STORM EVENT IS DEFINED AS HAVING A 1-HOUR RAINFALL DEPTH OF 2.31 INCHES. STORM INFRASTRUCTURE IS DESIGNED TO ACCOMMODATE A RATE OF FLOW, THEREFORE IT IS POSSIBLE TO EXPERIENCE FLOODING IF THE RATE OF PRECIPITATION IS HIGHER THAN THE DESIGN EVENT, EVEN IF THE STORM EVENT TOTALS LESS THAN 2.31 INCHES. EXTREME STORM EVENTS CAN BE HYPER-LOCALIZED, AND MAY NOT BE WELL REPRESENTED BY FLOWING RAIN GAUGES.

FURTHER, STORMWATER MANAGEMENT SYSTEMS REQUIRE REGULAR MAINTENANCE. FAILURE TO PROVIDE PROPER MAINTENANCE REDUCES THE HYDRAULIC CAPACITY OF THE SYSTEM AND MAY RESULT IN FLOODING. S. A. MIRO, INC. IS NOT RESPONSIBLE FOR SITE FLOODING THAT OCCURS AS A RESULT OF EITHER THE EXTREME WEATHER EVENTS, OR OF POORLY-MAINTAINED AT-GRADE AND BELOW-GRADE STORM INFRASTRUCTURE UTILITIES.

THE CONTRACTOR SHALL CONFORM TO OVEREXCAVATION REQUIREMENTS DETAILED WITHIN THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT. OVEREXCAVATION REQUIREMENTS ARE NOT DEPICTED ON THE CIVIL PLANS.

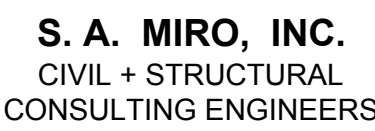
1. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE WORK SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIFICATIONS IN A SATISFACTORY MANNER. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, TOOLS, LABOR, AND INCIDENTALS TO COMPLETE THE WORK.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AT THEIR EXPENSE TO COMPLETE ALL GRADING, UTILITY WORK AND INSTALLATION OF EROSION CONTROL MEASURES.
4. THE CONTRACTOR SHALL COORDINATE WORK WITH ALL ADJACENT PROJECTS.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACTOR TO PROTECT EXISTING UTILITY LINES SHOWN ON THESE PLANS AND THOSE UTILITY LINES WHICH MAY NOT BE SHOWN ON THESE PLANS.
6. EXISTING SITE INFORMATION SHOWN ON THESE DRAWINGS IS BASED UPON AVAILABLE SURVEY BY FARNSWORTH GROUP DATED APRIL 30, 2024. S.A. MIRO, INC. MAKES NO WARRANTIES OR CERTIFICATION OF THE COMPLETENESS OR ACCURACY OF THE EXISTING CONDITIONS PRESENTED. THE CONTRACTOR SHALL INSPECT THE SITE TO ASSESS EXISTING CONDITIONS, AND SATISFY THEMSELVES THAT THE DOCUMENTS ACCURATELY REPRESENT THE SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FOUND DURING INITIAL INSPECTIONS, OR SUBSEQUENTLY, SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY FOR INFORMATION RELATIVE TO THE INTENDED CONSTRUCTION.
7. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED USING FIELD SURVEY DATA LOCATING MANHOLES, WATER VALVES, ELECTRICAL EQUIPMENT, AND OTHER FEATURES FOUND AT THE SURFACE. NO SUBSURFACE EXPLORATION HAS BEEN DONE TO VERIFY EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICT PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL BEAR THE FULL COST OF REMOVAL, REPLACEMENT AND DELAY RELATED TO UNVERIFIED EXISTING CONDITIONS. WHERE THE CONTRACTOR FINDS CONFLICTS OR DISCREPANCIES, THEY SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY APPROPRIATE ENTITIES FOR UTILITY LOCATES AND START OF CONSTRUCTION PRIOR TO ANY WORK BEING STARTED.
10. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL AFFECTED PARTIES PRIOR TO ANY UTILITY SHUTDOWN OF SERVICE.
11. ALL QUANTITIES SHOWN ON THESE PLANS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES PRIOR TO CONSTRUCTION AND ORDERING OF ANY MATERIALS.
12. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
13. THE CONTRACTOR SHALL FOLLOW/VERIFY THE INTENT OF THE DESIGN AT ALL LOCATIONS OF TIE-IN TO EXISTING FEATURES.
14. TO REDUCE THE POTENTIAL FOR CLOGGING OF DEBRIS GRATES, NO STRAW MULCH SHALL BE USED WITHIN THE EXCESS URBAN RUNOFF VOLUME OF A DETENTION BASIN. INSTEAD, EROSION CONTROL BLANKET SHALL BE INSTALLED FOR A WIDTH OF AT LEAST 6-FEET ON BOTH SIDES OF THE CONCRETE LOW FLOW CHANNELS OR UP TO A DEPTH OF 1-FOOT IN SLOPE RIPRAP OR BENDED LOW FLOW CHANNELS. ADDITIONALLY, HYDRAULICALLY APPLIED WOOD FIBER MULCH, STABILIZED FIBER MATRIX BONDED FIBER MATRIX, OR FLEXIBLE GROWTH MEDIUM SHALL BE USED IN ALL OTHER AREAS WITHIN THE EXCESS URBAN RUNOFF VOLUME OF THE DETENTION BASIN. THE BLANKET AND HYDRAULICALLY APPLIED MULCH SHALL COMPLY WITH THE MATERIALS AND INSTALLATION REQUIREMENTS FOR EROSION CONTROL BLANKETS AS REQUIRED BY THE TOWN'S CBMP PROGRAM, AND WHERE APPLICABLE, THE PRODUCT MANUFACTURER.

1. UNLESS OTHERWISE NOTED, EXISTING UTILITIES AND STRUCTURES SHALL REMAIN AND BE PROTECTED IN PLACE.
2. THE CONTRACTOR SHALL PROTECT ALL ADJACENT IMPROVEMENTS (BUILDINGS, ROADWAYS, FENCES, PARKING LOTS, UTILITIES, ETC.) FROM DAMAGE AND EROSION. ALL DISTURBED AREAS OUTSIDE OF THE LIMITS OF WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH 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 THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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Town of Parker, Director of Engineering/Public Works Date _____



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303-741-3737
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PROJECT:	DRAWING TITLE:
ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	CIVIL NOTES AND LEGEND

NO.	DESCRIPTION	DATE
1	1ST TOWN SUBMITTAL	06/03/2024
2	2ND TOWN SUBMITTAL	08/16/2024

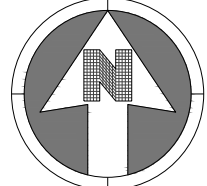
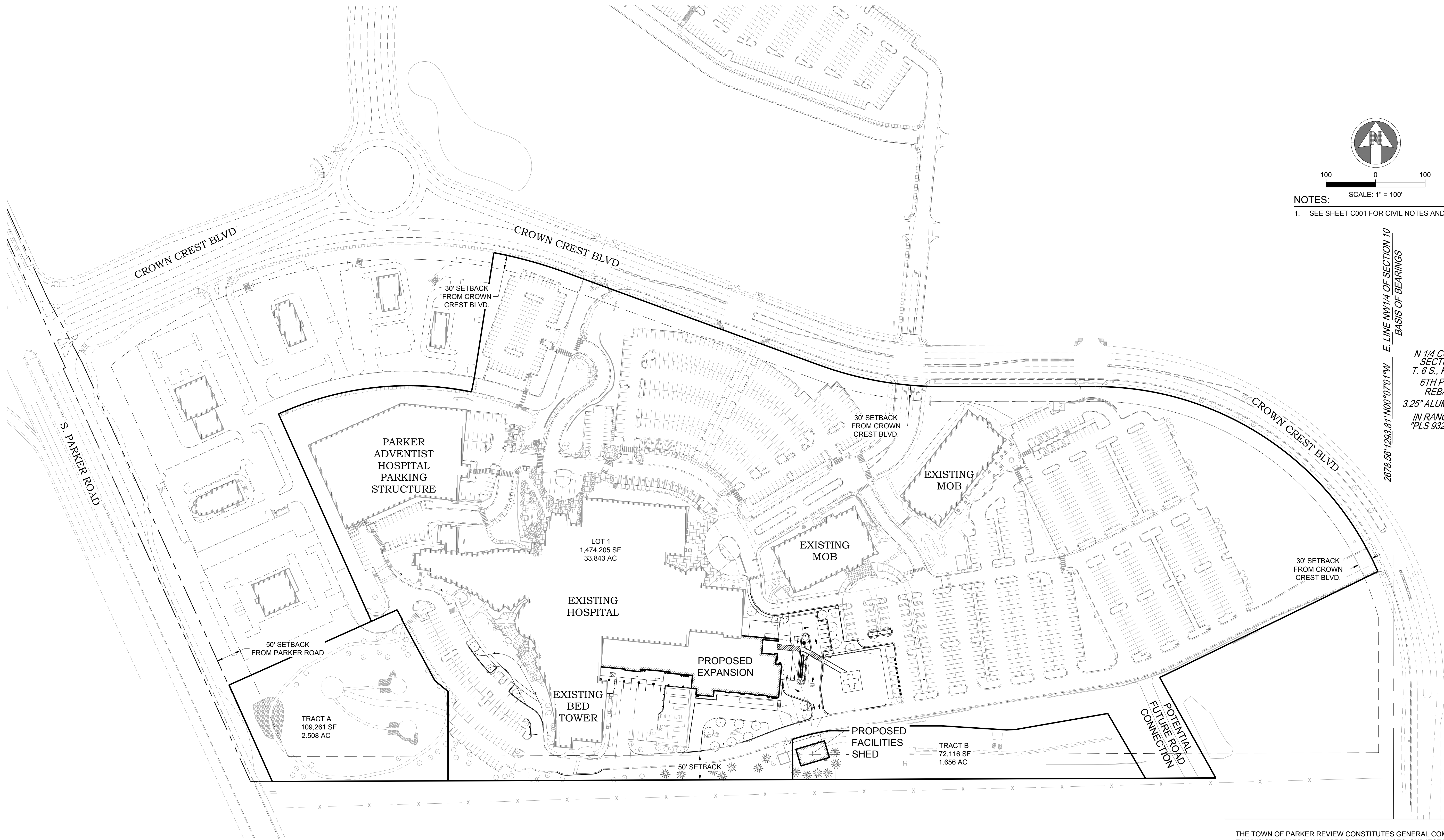
FILE PATH: C:\Users\jeds\Documents\S. A. Miro, Inc.\Civil\Jobs\23079 AHP Expansion\05 CAD Plans and Details\C000-COVR.dwg C001 - 8/16/2024

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DESIGNED BY:	RJH
DRAWN BY:	EDS
CHECKED BY:	MHV
MIRO JOB NO.	23079

DRAWING NUMBER:

C001



100 0 100
SCALE: 1" = 100'

NOTES:
1. SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.

2678.56' 1293.81' 100°07'01" W E LINE NW1/4 OF SECTION 10
BASIS OF BEARINGS

N 1/4 CORNER
SECTION 10
T. 6 S., R. 66 W.,
6TH P.M. #6
REBAR W/
3.25" ALUMINUM CAP
IN RANGE BOX
"PLS 9329 2005"

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DATE	DESCRIPTION	NO.	PROJECT	DRAWING TITLE:
06/03/2024	1ST TOWN SUBMITTAL	1	ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	OVERALL SITE PLAN
08/16/2024	2ND TOWN SUBMITTAL	2		

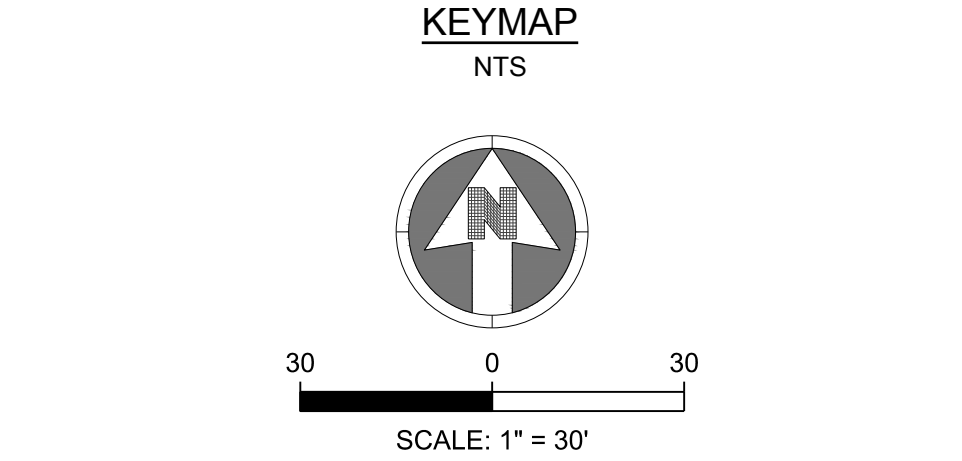
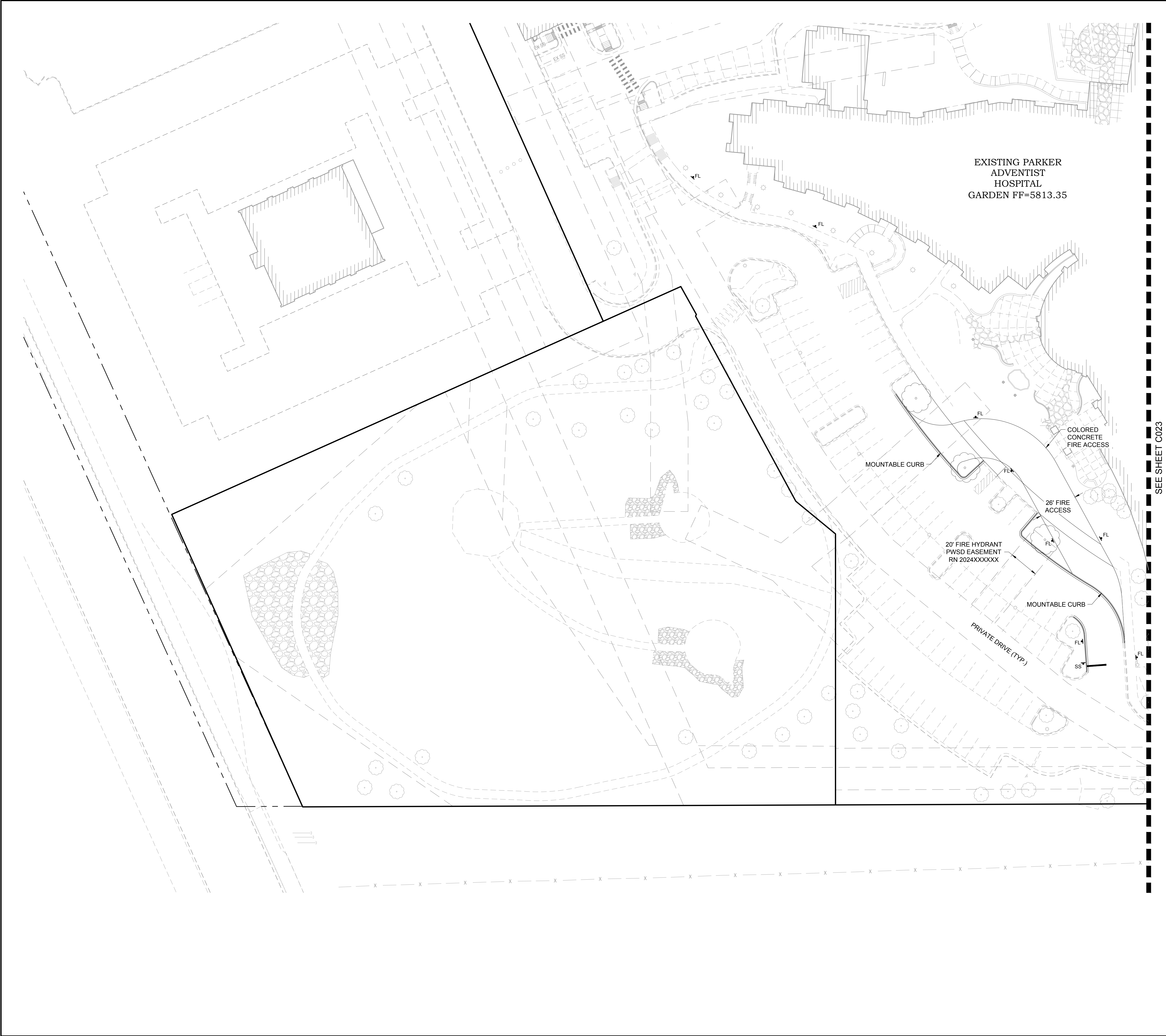
FILE PATH: C:\Users\leda\Documents\S.A. Miro, Inc.\Civil\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C021-SITE-PLAN.dwg C021 - 8/16/2024

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CHECKED BY:	MHV
MIRO JOB NO.	23079

DRAWING NUMBER:

C021



NOTES:
1. SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.

- LEGEND:
- SS PROPOSED "STOP" SIGN
RE: DTL. 4 / C452
 - FL PROPOSED "FIRE LANE" SIGN
RE: DTL. 4 / C452

SEE SHEET C023

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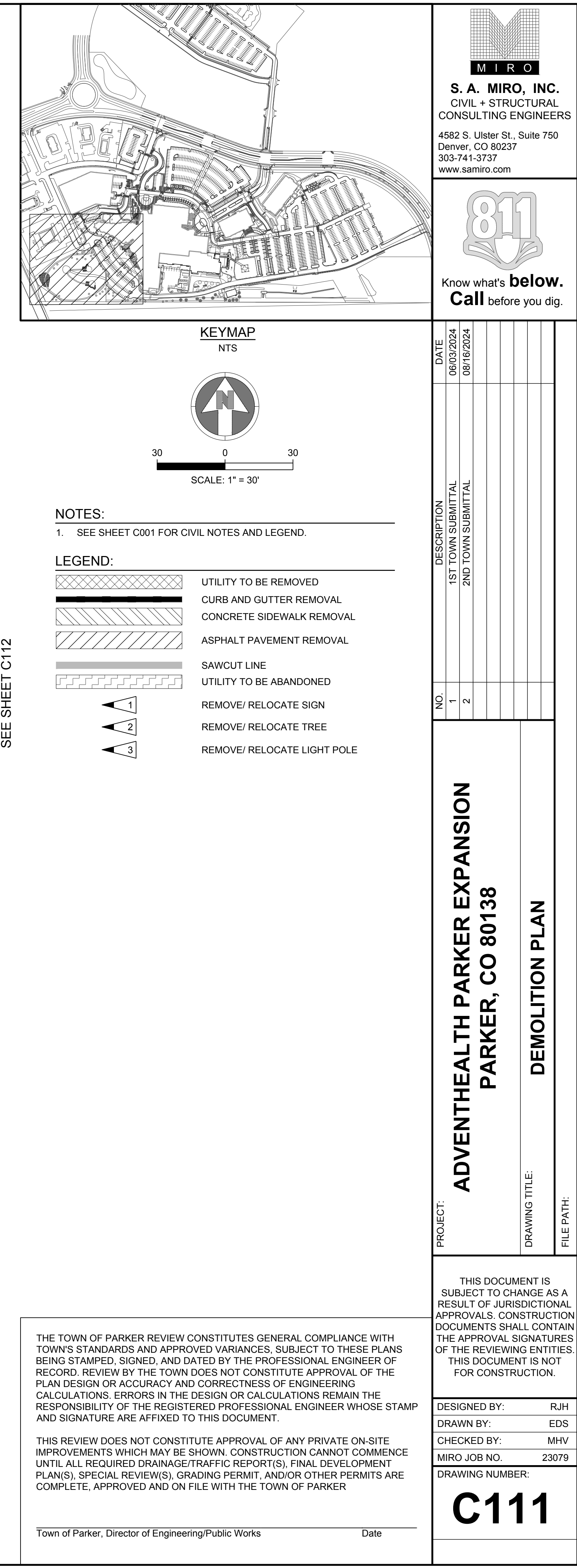
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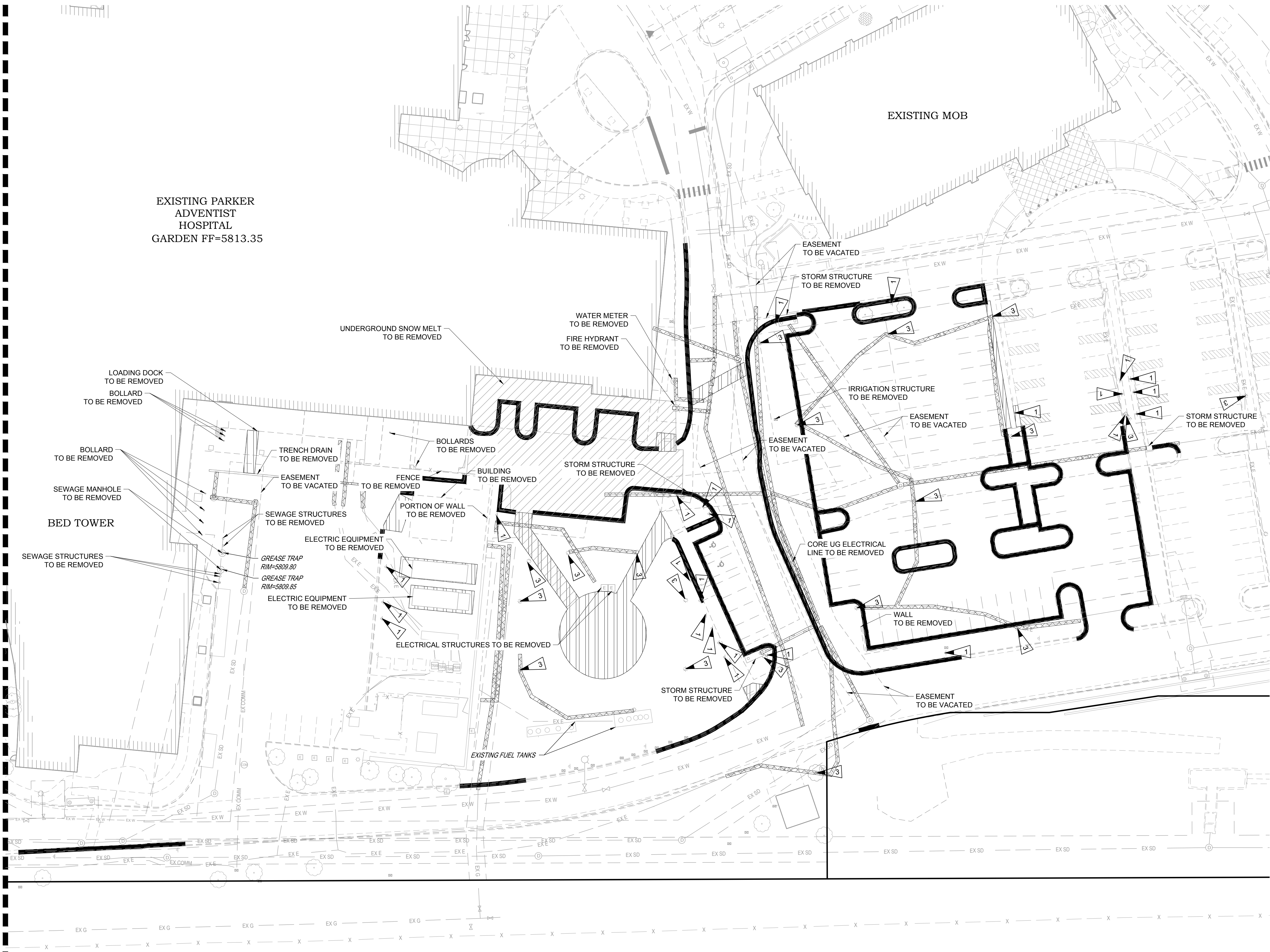


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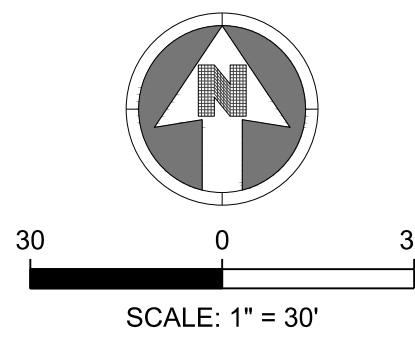
PROJECT:	DATE	06/03/2024	DESCRIPTION	1ST TOWN SUBMITTAL	08/16/2024	NO.	1	PROJECT:	ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	DRAWING TITLE:	SITE PLAN	FILE PATH:
	2ND TOWN SUBMITTAL	2										
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CHECKED BY:		MHV										
MIRO JOB NO.		23079										
DRAWING NUMBER:		C022										



SEE SHEET C111



KEYMAP
NTS



NOTES:
1. SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.

LEGEND:	
	UTILITY TO BE REMOVED
	CURB AND GUTTER REMOVAL
	CONCRETE SIDEWALK REMOVAL
	ASPHALT PAVEMENT REMOVAL
	SAWCUT LINE
	UTILITY TO BE ABANDONED
	REMOVE/ RELOCATE SIGN
	REMOVE/ RELOCATE TREE
	REMOVE/ RELOCATE LIGHT POLE

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DATE	06/03/2024
DESCRIPTION	1ST TOWN SUBMITTAL
NO.	1
NO.	2
NO.	3
NO.	4
NO.	5
NO.	6
NO.	7
NO.	8
NO.	9
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NO.	93
NO.	94
NO.	95
NO.	96
NO.	97
NO.	98
NO.	99
NO.	100

PROJECT:

ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

DRAWING TITLE:

DEMOLITION PLAN

FILE PATH:

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DESIGNED BY:

RJH

DRAWN BY:

EDS

CHECKED BY:

MHV

MIRO JOB NO.

23079

DRAWING NUMBER:

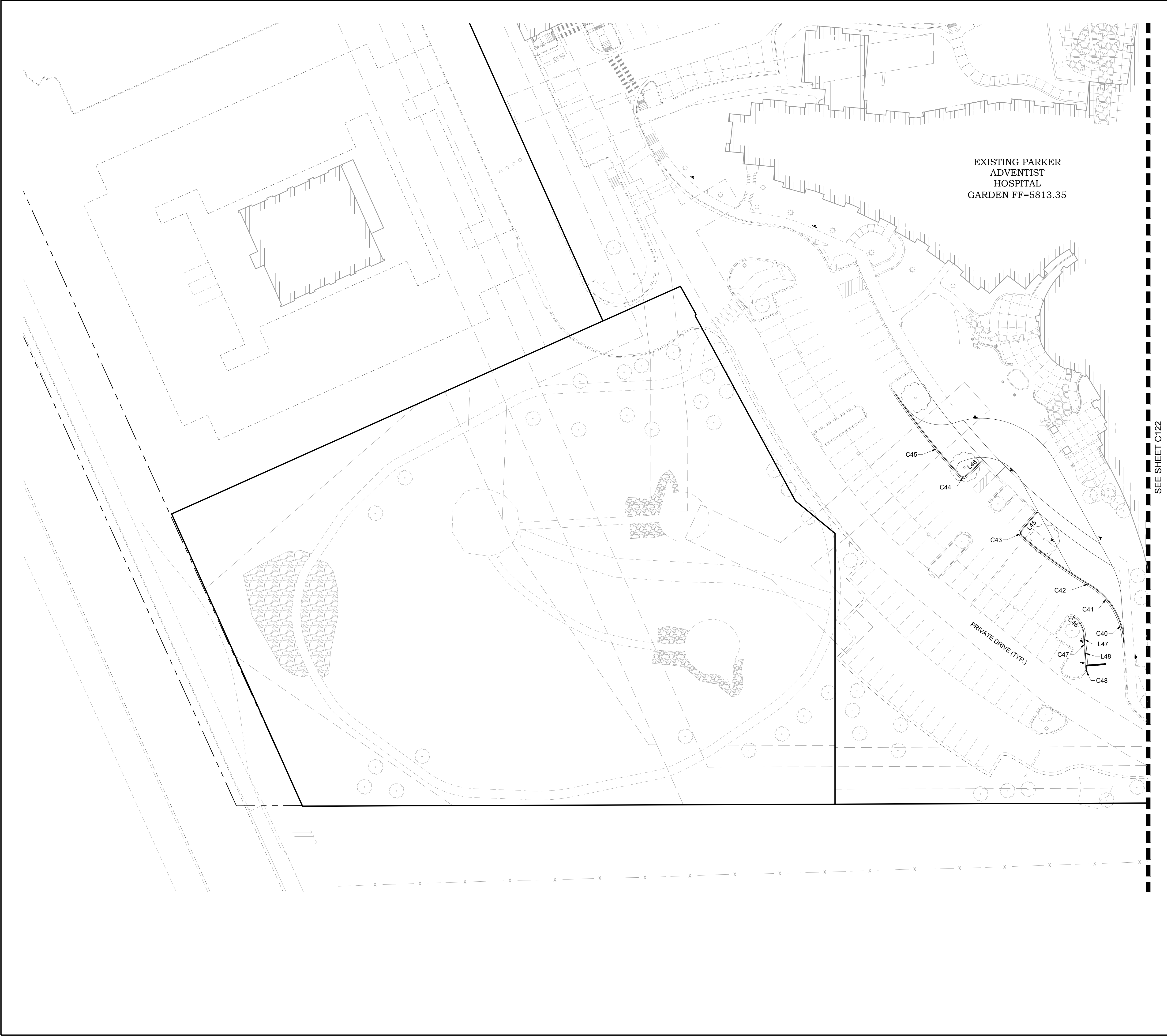
C112

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Town of Parker, Director of Engineering/Public Works

Date

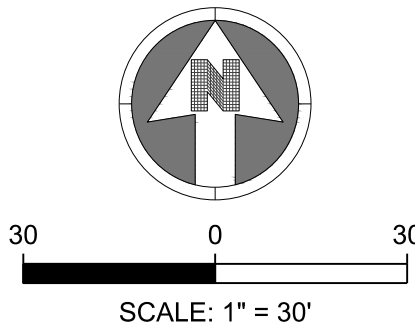


EXISTING PARKER
ADVENTIST
HOSPITAL
GARDEN FF=5813.35

SEE SHEET C122



KEYMAP
NTS

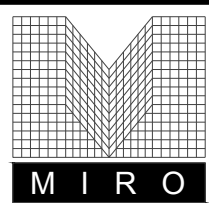


NOTES:
1. SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.

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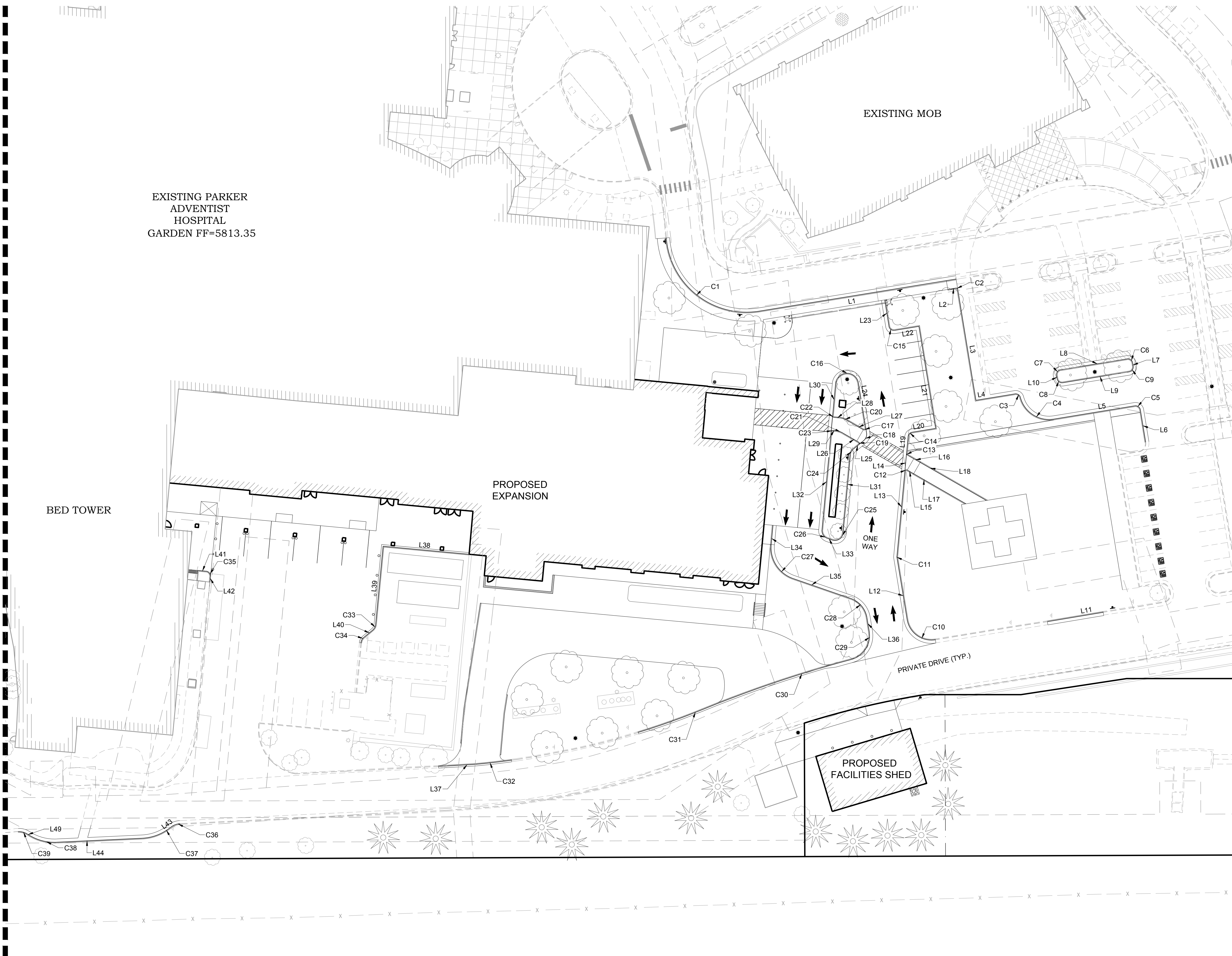
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PROJECT:	NO.	DESCRIPTION	DATE	
			1ST TOWN SUBMITTAL	2ND TOWN SUBMITTAL
ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	1		06/03/2024	
	2		08/16/2024	
DRAWING TITLE:	HORIZONTAL CONTROL PLAN			
FILE PATH:				
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DRAWN BY:	EDS			
CHECKED BY:	MHV			
MIRO JOB NO.	23079			
DRAWING NUMBER:	C121			

SEE SHEET C022



KEYMAP
NTS

SCALE: 1" = 30'

NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.

PROJECT: ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

DRAWING TITLE: HORIZONTAL CONTROL DATA

FILE PATH:

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DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079
DRAWING NUMBER: **C122**

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06/03/2024	1ST TOWN SUBMITTAL	1
08/16/2024	2ND TOWN SUBMITTAL	2

SEE SHEET C211

EXISTING PARKER
ADVENTIST
HOSPITAL
GARDEN FF=5813.35

BED TOWER

EXISTING MOB

PROPOSED EXPANSION

FFE = 5829.35
GARDEN FFE=5813.35
LOADING DOCK ELEV.=5809.85

SOUTH POND B

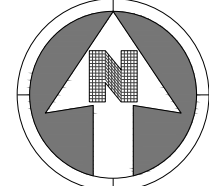
PROPOSED FACILITIES SHED

FFE=5824.00

EX. OUTLET CONTROL STRUCTURE
ORIFICE AND RESTRICTOR
PLATES TO BE REPLACED
SEE DETAILS ON SHEET C353

KEYMAP

NTS



30 0 30
SCALE: 1" = 30'

NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.

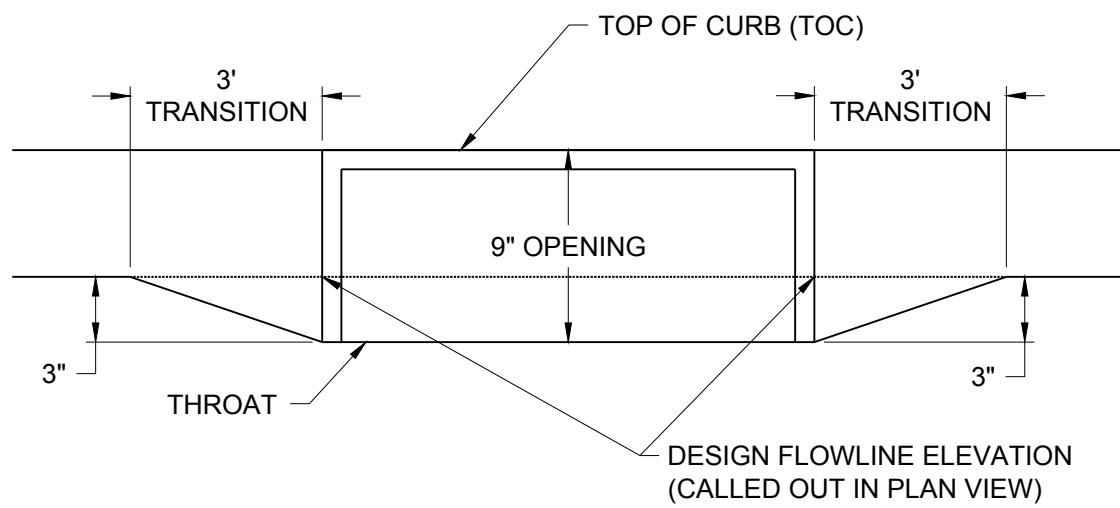
"TW" DENOTES FINISH
GRADE AT HIGH SIDE OF
WALL

RETAINING WALL

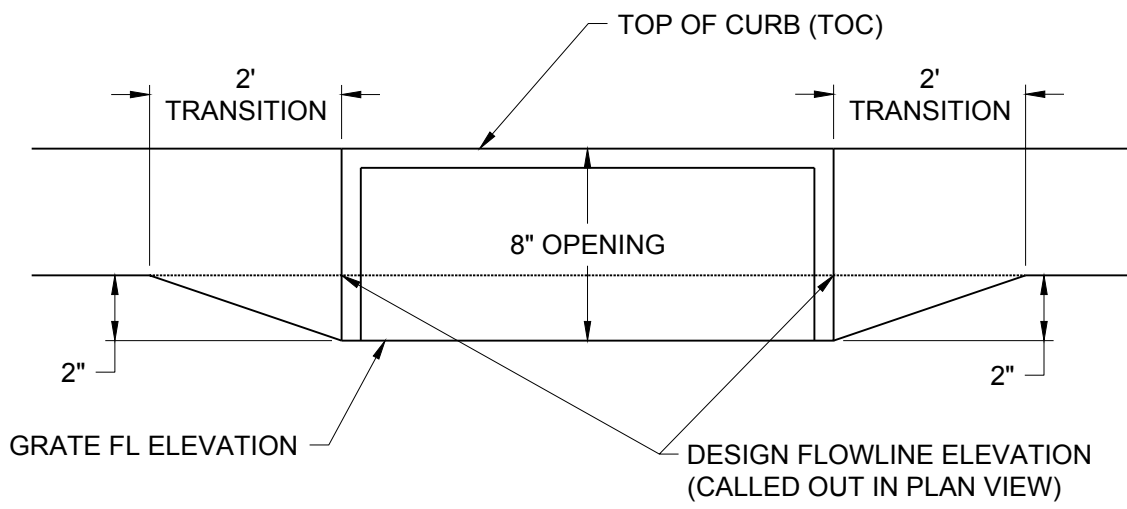
"BW" DENOTES FINISH
GRADE AT LOW SIDE OF
WALL

RETAINING WALL GRADING LABEL DETAIL

NOT TO SCALE



TYPE R INLET ANNOTATION DETAIL



SINGLE TYPE 16 COMBO INLET ANNOTATION DETAIL

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Town of Parker, Director of Engineering/Public Works Date



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DATE	DESCRIPTION	NO.	PROJECT	DRAWING TITLE:	FILE PATH: C:\Users\leda\Documents\S.A. Miro, Inc.\Civil\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C211-GRAD-PLAN.dwg C212 - 8/16/2024
06/03/2024	1ST TOWN SUBMITTAL	1	ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	GRADING PLAN	
08/16/2024	2ND TOWN SUBMITTAL	2			

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DESIGNED BY: RJH
DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079

DRAWING NUMBER:
C212

ADVENTHEALTH PARKER EXPANSION

Sheet List Table	
Drawing Number	Sheet Title
C240	EROSION CONTROL COVER SHEET
C241	INITIAL EROSION CONTROL PLAN
C242	INITIAL EROSION CONTROL PLAN
C243	INTERIM EROSION CONTROL PLAN
C244	INTERIM EROSION CONTROL PLAN
C245	FINAL EROSION CONTROL PLAN
C246	FINAL EROSION CONTROL PLAN
C251	EROSION CONTROL DETAILS
C252	EROSION CONTROL DETAILS
C253	EROSION CONTROL DETAILS
C254	EROSION CONTROL DETAILS
C255	EROSION CONTROL DETAILS
C256	EROSION CONTROL DETAILS
C257	EROSION CONTROL DETAILS
C258	EROSION CONTROL DETAILS
C259	EROSION CONTROL DETAILS



NO.	DESCRIPTION	DATE
1	1ST TOWN SUBMITTAL	09/03/2024
2	2ND TOWN SUBMITTAL	09/16/2024

DRAWING TITLE: **EROSION CONTROL COVER SHEET**

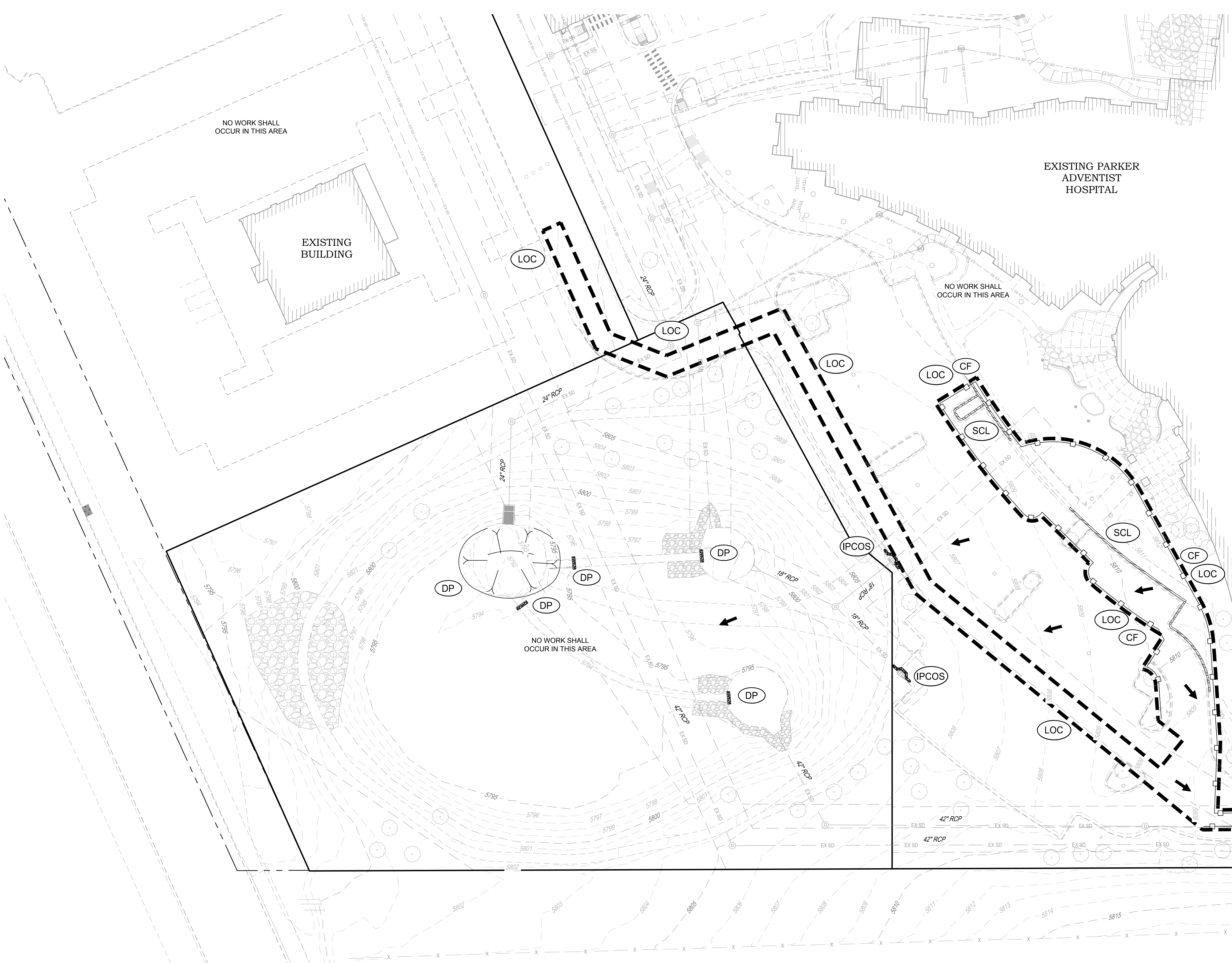
FILE PATH: C:\Users\edwards\Documents\AHP Expansion\05 CAD Plans and Details\C240-ERQS-COVR.dwg C240 - 8/16/2024

Town of Parker, Director of Engineering/Public Works Date _____

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DRAWN BY:	EDS
CHECKED BY:	MHV
MIRO JOB NO.	23079

DRAWING NUMBER:

C240



NOTES:

1. SEE SHEETS C251-C259 FOR EROSION CONTROL NOTES, LEGEND AND DETAILS.

- TOWN OF PARKER NOTES:**
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 - THE VTC PAD FOR A CWA DOES NOT NEED TO CONFORM TO THE FORMAL VTC DETAIL, AND THE TRUE LOCATION OF THE CWA MAY BE DETERMINED BY THE TOWN AND ECS.
 - THE TRUE LOCATION OF THE PORTABLE TOILET PROTECTION (PTP) MAY BE DETERMINED.
 - THE TOWN MAY ALLOW THE USE OF PROPRIETARY INLET PROTECTION FOR THE PROPOSED IPAPS FOR THE SAKE OF MAINTENANCE. HOWEVER, THE CONTRACTOR MUST SEEK APPROVAL PRIOR TO INSTALLATION.
 - ALL DIRTY STREET, CURBS, GUTTERS, SIDEWALKS, DRIVE AISLES, ETC., MUST BE THOROUGHLY CLEANED THROUGHOUT THE DAY AND IMMEDIATELY BEFORE THE END OF THE WORK DAY.
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 - ANY ONSITE BULK FUEL STORAGE REQUIRES A FIRE LIFE SAFETY PERMIT FROM THE TOWN PRIOR TO INSTALLATION. CONTACT RANDY CAPRA AT RCAPRA@PARKERONLINE.ORG OR 303-805-3163.
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KEYMAP
NTS

30 0 30
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LEGEND:

	CD	CHECK DAM
	CF	CONSTRUCTION FENCE
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	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
	TI	TEMPORARY IRRIGATION
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	LOC	LIMITS OF CONSTRUCTION
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06/03/2024	1ST TOWN SUBMITTAL	#	ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	INITIAL EROSION CONTROL PLAN	C:\Users\edsa\Documents\A. Miro, Inc.\Civil\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C241-EROS-PLAN-INITIAL.dwg C241 - 8/16/2024
08/16/2024	2ND TOWN SUBMITTAL	#			

DESIGNED BY: RJH

DRAWN BY: EDS

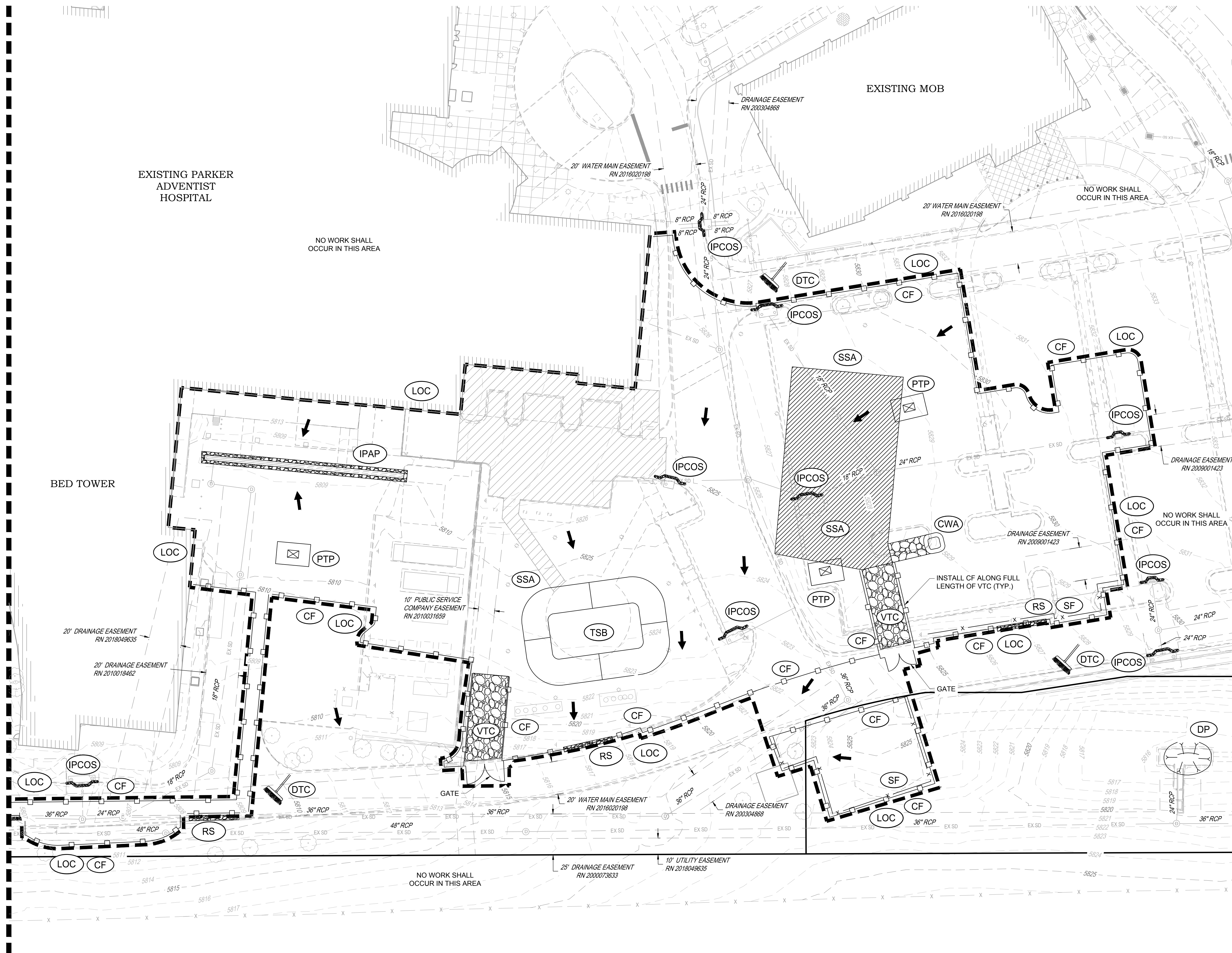
CHECKED BY: MHV

MIRO JOB NO. 23079

DRAWING NUMBER:

C241

SEE SHEET C241



NOTES:
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	CWA	CONCRETE WASHOUT AREA
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08/16/2024	2ND TOWN SUBMITTAL	#			
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DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079

DRAWING NUMBER:
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DATE	06/03/2024
DESCRIPTION	1ST TOWN SUBMITTAL
NO.	1
DESCRIPTION	2ND TOWN SUBMITTAL
NO.	2

**ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

PROJECT:

INTERIM EROSION CONTROL PLAN

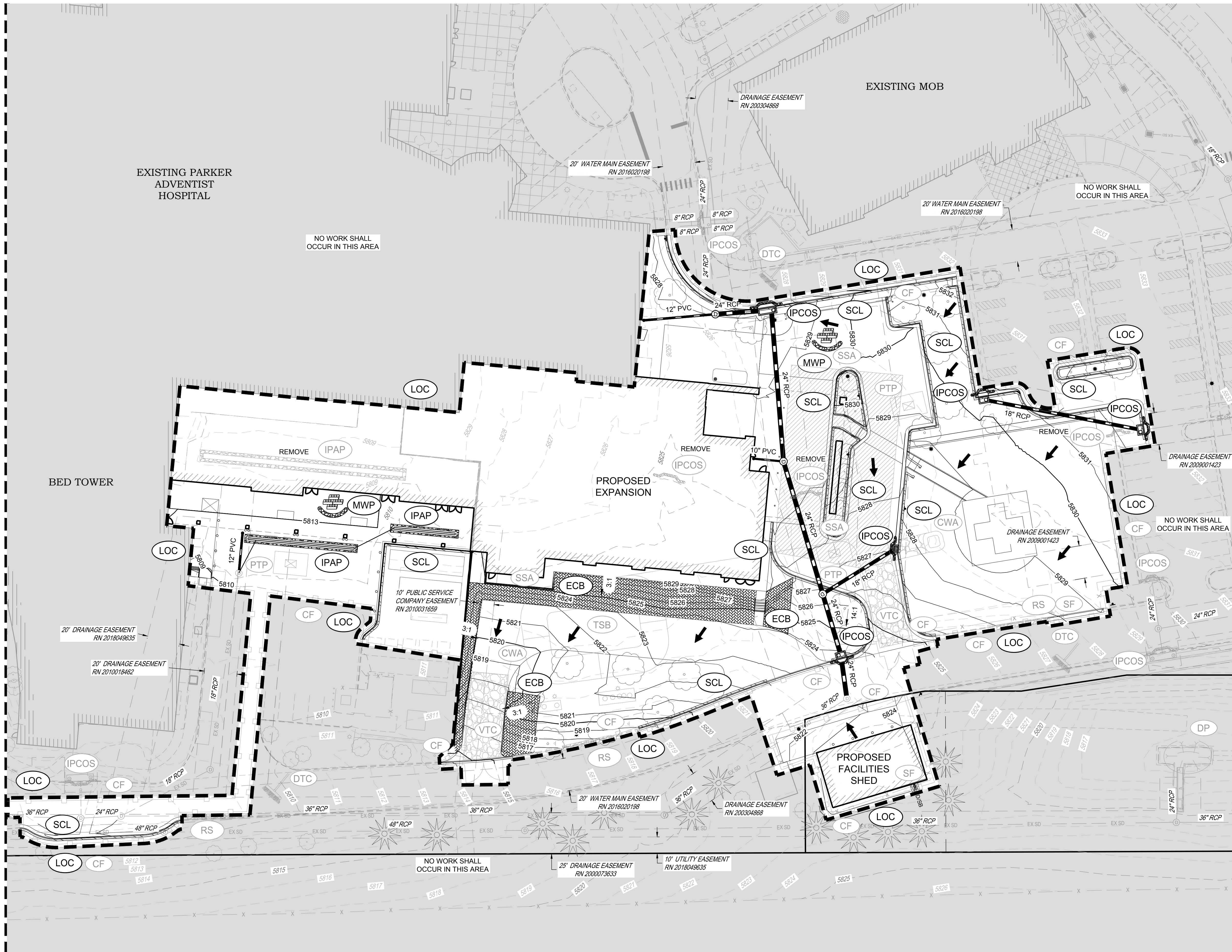
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FILE PATH: C:\Users\stda\Documents\S.A. Miro, Inc.\Civil\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C243-EROS-PLAN-INTERIM.dwg C243 - 8/16/2024

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SEE SHEET C243

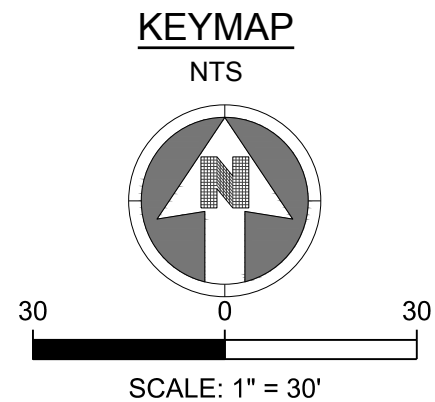


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	IPCOG	INLET PROTECTION, CURB ON-GRADE, TYPE R INLET
	IPCOS	INLET PROTECTION, CURB ON SUMP, TYPE R INLET
	LP	LOT PROTECTION
	MWP	MASONRY WORK PROTECTION
	PTP	PORTABLE TOILET PROTECTION
	RCSC	ROUGH CUT STREET CONTROL
	RS	ROCK SOCK
	RSS	ROCK SOCK IN 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
	TI	TEMPORARY IRRIGATION
	TSB	TEMPORARY SEDIMENT BASIN
	VTC	VEHICLE TRACKING CONTROL
	LOC	LIMITS OF CONSTRUCTION
		FLOW DIRECTION ARROW

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH 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 THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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Town of Parker, Director of Engineering/Public Works Date

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06/03/2024	1ST TOWN SUBMITTAL	1
08/16/2024	2ND TOWN SUBMITTAL	2

PROJECT: **ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

DRAWING TITLE: **INTERIM EROSION CONTROL PLAN**

FILE PATH: C:\Users\leda\Documents\S.A. Miro, Inc.\CivilJobs\23079 AHP Expansion\05 CAD\Plans and Details\C243-EROS-PLAN-INTERIM.dwg C244 - 8/16/2024

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MIRO JOB NO.	23079
DRAWING NUMBER:	C244

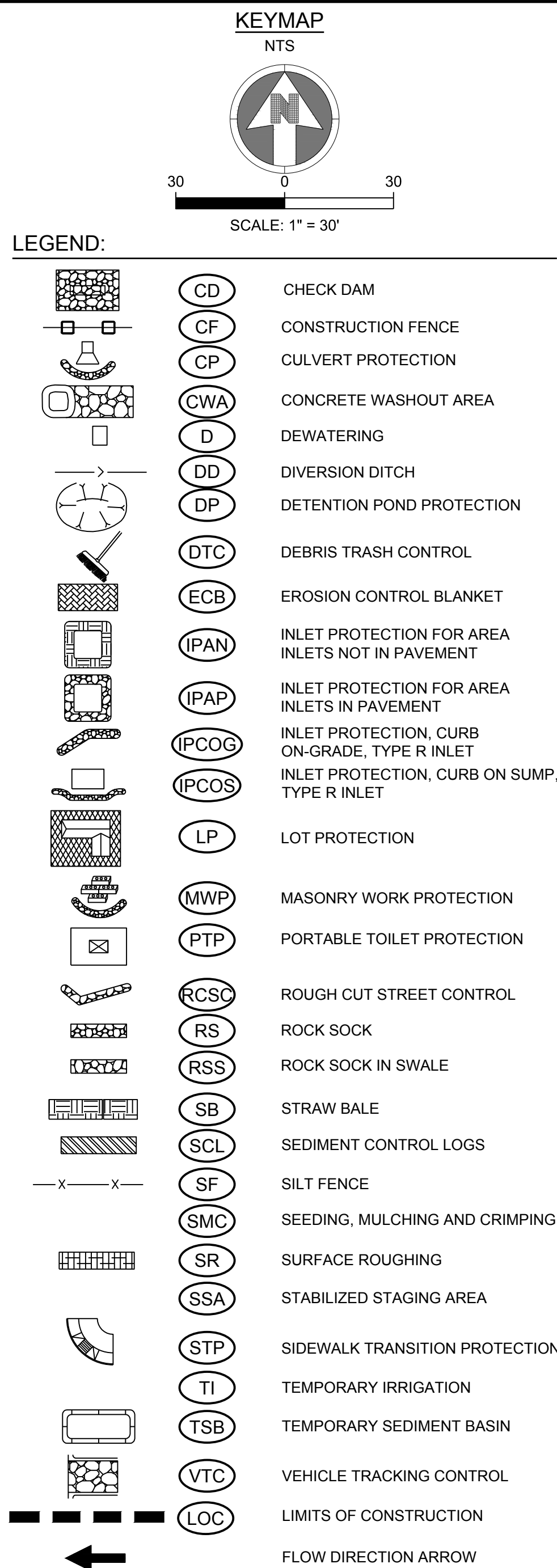


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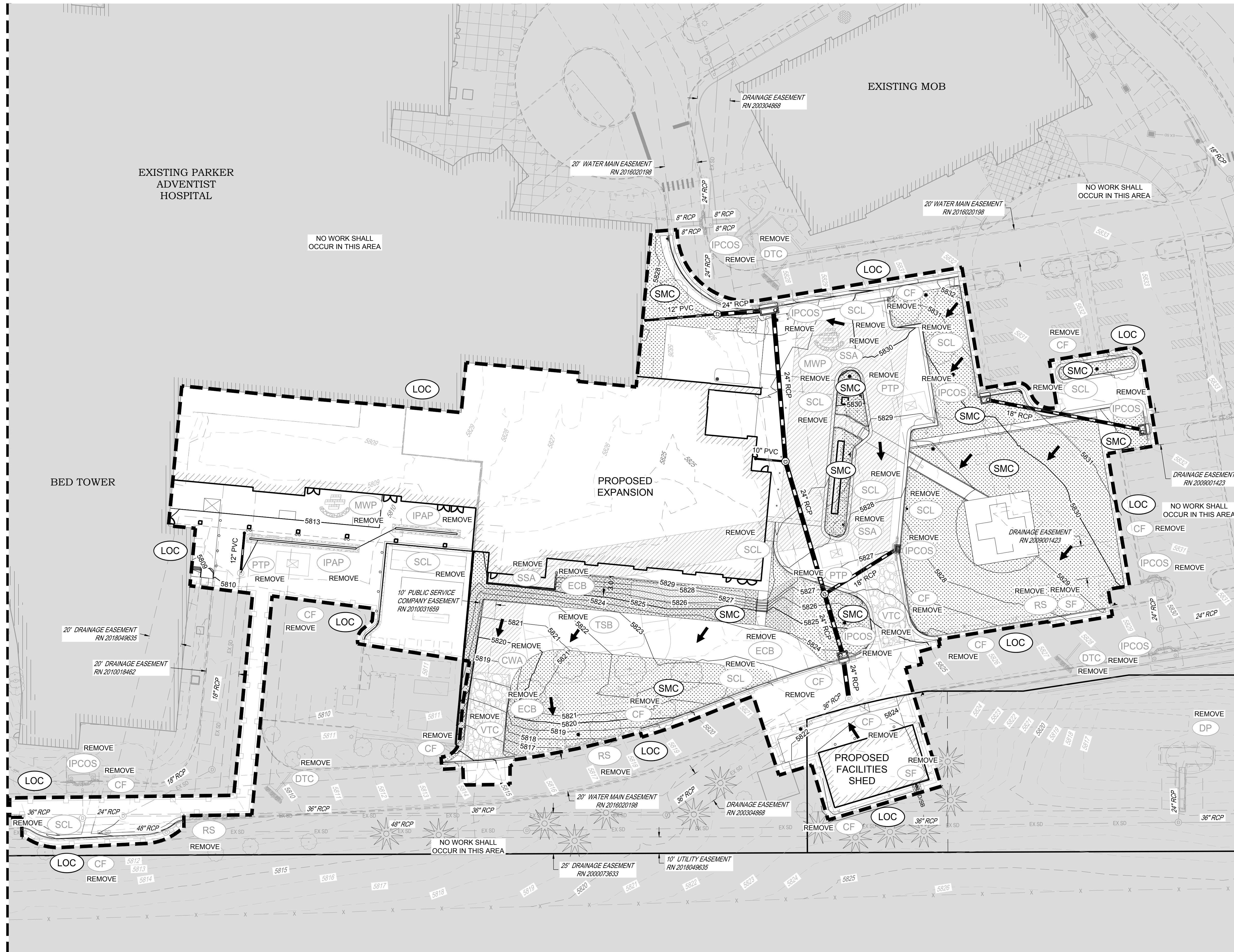
TOWN OF PARKER NOTES:	
1. ALL GRADES SHOWN ARE FINAL FINISHED SURFACE GRADE AFTER TOPSOIL, SOD, PAVING ETC., EXCEPT IN THE AREA OF SOIL STOCK PILE.	9. ANY ONSITE BULK FUEL STORAGE REQUIRES A FIRE LIFE SAFETY PERMIT FROM THE TOWN PRIOR TO INSTALLATION. CONTACT RANDY CAPRA AT RCAPRA@PARKERONLINE.ORG OR 303-805-3163.
2. SEE TOWN OF PARKER CONSTRUCTION BEST MANAGEMENT PRACTICES.	10. MASONRY WORK PROTECTION IS REQUIRED FOR CONSTRUCTION OF BUILDINGS.
3. THE VTC PAD FOR A CWA DOES NOT NEED TO CONFORM TO THE FORMAL VTC DETAIL, AND THE TRUE LOCATION OF THE CWA MAY BE DETERMINED BY THE TOWN AND EGS.	11. THE TRUE LOCATION OF THE CWA MAY BE DETERMINED BY THE TOWN AND THE EGS.
4. THE TRUE LOCATION OF THE PORTABLE TOILET PROTECTION (PTP) MAY BE DETERMINED.	12. TO REDUCE THE POTENTIAL FOR CLOGGING OF DEBRIS GRATES, NO STRAW MULCH SHALL BE USED WITHIN THE EXCESS URBAN RUNOFF VOLUME OF A DETENTION BASIN.
5. THE TOWN MAY ALLOW THE USE OF PROPRIETARY INLET PROTECTION FOR THE PROPOSED JPAPS FOR THE SAKE OF MAINTENANCE. HOWEVER, THE CONTRACTOR MUST SEEK APPROVAL PRIOR TO INSTALLATION.	INSTEAD, EROSION CONTROL BLANKET SHALL BE INSTALLED FOR A WIDTH OF AT LEAST 6-FOOT ON BOTH SIDES OF THE CONCRETE LOW FLOW CHANNELS OR UP TO A DEPTH OF 1-FOOT IN SOIL RIPRAP OR BENCHMARKED LOW FLOW CHANNELS. ADDITIONALLY, HYDRAULICALLY APPLIED WOOD FIBER MULCH, STABILIZED FIBER MATRIX, BONDED FIBER MATRIX, OR FLEXIBLE GROWTH MEDIUM SHALL BE USED IN ALL OTHER AREAS WITHIN THE EXCESS URBAN RUNOFF VOLUME OF THE DETENTION BASIN. THE BLANKET AND HYDRAULICALLY APPLIED MULCH SHALL COMPLY WITH THE MATERIALS AND INSTALLATION REQUIREMENTS FOR EROSION CONTROL BLANKETS AS REQUIRED BY THE TOWN'S CBMP PROGRAM, AND WHERE APPLICABLE, THE PRODUCT MANUFACTURER
6. ALL DIRTY STREET, CURBS, GUTTERS, SIDEWALKS, DRIVE AISLES, ETC., MUST BE THOROUGHLY CLEANED THROUGHOUT THE DAY AND IMMEDIATELY BEFORE THE END OF THE WORK DAY.	
7. LOT PROTECTION (LP) IS REQUIRED ON COMMERCIAL LOTS WHEN LANDSCAPING IS NOT POSSIBLE.	
8. PROVIDE SEDIMENT CONTROL LOGS (SCL) ALONG BACK OF ALL CURBS ADJACENT TO LANDSCAPE/PERVIOUS AREAS INCLUDING LANDSCAPE ISLANDS AND ALL ATTACHED PEDESTRIAN WALKS.	

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PROJECT:		ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138		NO. #		DESCRIPTION 1ST TOWN SUBMITTAL 2ND TOWN SUBMITTAL		DATE 06/09/2024 08/16/2024	
DRAWING TITLE:		FINAL EROSION CONTROL PLAN		#		#		#	
FILE PATH: C:\Users\eds\Documents\S. A. Miro, Inc\Civil\Jobs\230793 AHP Expansion\05 CAD\Plans and Details\C245-EROS-PLAN-FINAL.dwg C245 - 8/16/2024									
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CHECKED BY:					MHV				
MIRRO JOB NO.					23079				
DRAWING NUMBER:					C245				

SEE SHEET C245



NOTES:

1. SEE SHEETS C251-C259 FOR EROSION CONTROL NOTES, LEGEND AND DETAILS.
2. ADDITIONAL PTPS MAY BE NEEDED IN THE INTERIM AND FINAL PHASE.
3. EROSION CONTROL BLANKETS ARE REQUIRED FOR ALL SLOPES STEEPER THAN 4:1.

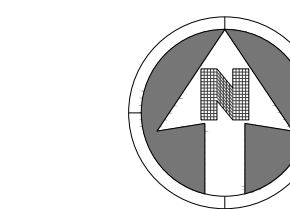
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KEYMAP

NTS



SCALE: 1" = 30'

LEGEND:

	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
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	IPCOG	INLET PROTECTION, CURB ON-GRADE, TYPE R INLET
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DESCRIPTION	1ST TOWN SUBMITTAL	2ND TOWN SUBMITTAL							
NO.	#	#	#	#	#	#	#	#	#

ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

PROJECT:

DRAWING TITLE: **FINAL EROSION CONTROL PLAN**

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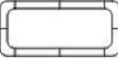
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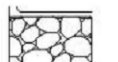
TI

TEMPORARY IRRIGATION



TSB

TEMPORARY SEDIMENT BASIN



VTC

VEHICLE TRACKING CONTROL



COLORADO

CBMP

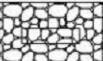
CONSTRUCTION BEST MANAGEMENT PRACTICES

LEGEND

3 OF 3

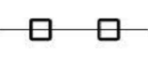
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CD

CHECK DAM



CF

CONSTRUCTION FENCE



CP

CULVERT PROTECTION



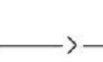
CWA

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



COLORADO

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

LEGEND

1 OF 3

Oct. 2013

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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 24-6-601, 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 BMPs 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.



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CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

GEN NOTES

3 OF 4

Oct. 2013

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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 (o.n.o. 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 FLOWING 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.



COLORADO

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

GEN NOTES

1 OF 4

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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 GRIMPING



SR

SURFACE ROUGHING



SSA

STABILIZED STAGING AREA



STP

SIDEWALK TRANSITION PROTECTION



COLORADO

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

LEGEND

2 OF 3

Oct. 2013

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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 BMPs 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 BARRIER 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.



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CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

GEN NOTES

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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, TROKLE 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 BMPs 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.



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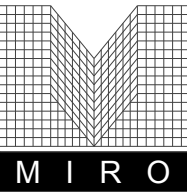
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CONSTRUCTION BEST MANAGEMENT PRACTICES

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06/03/2024	1ST TOWN SUBMITTAL	1
08/16/2024	2ND TOWN SUBMITTAL	2

PROJECT:

ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

DRAWING TITLE:

EROSION CONTROL DETAILS

FILE PATH: C:\Users\leda\Documents\3079 AHP Expansion\05 CAD\Plans and Details\C251-EROS-DTLs.dwg C251 - 8/16/2024

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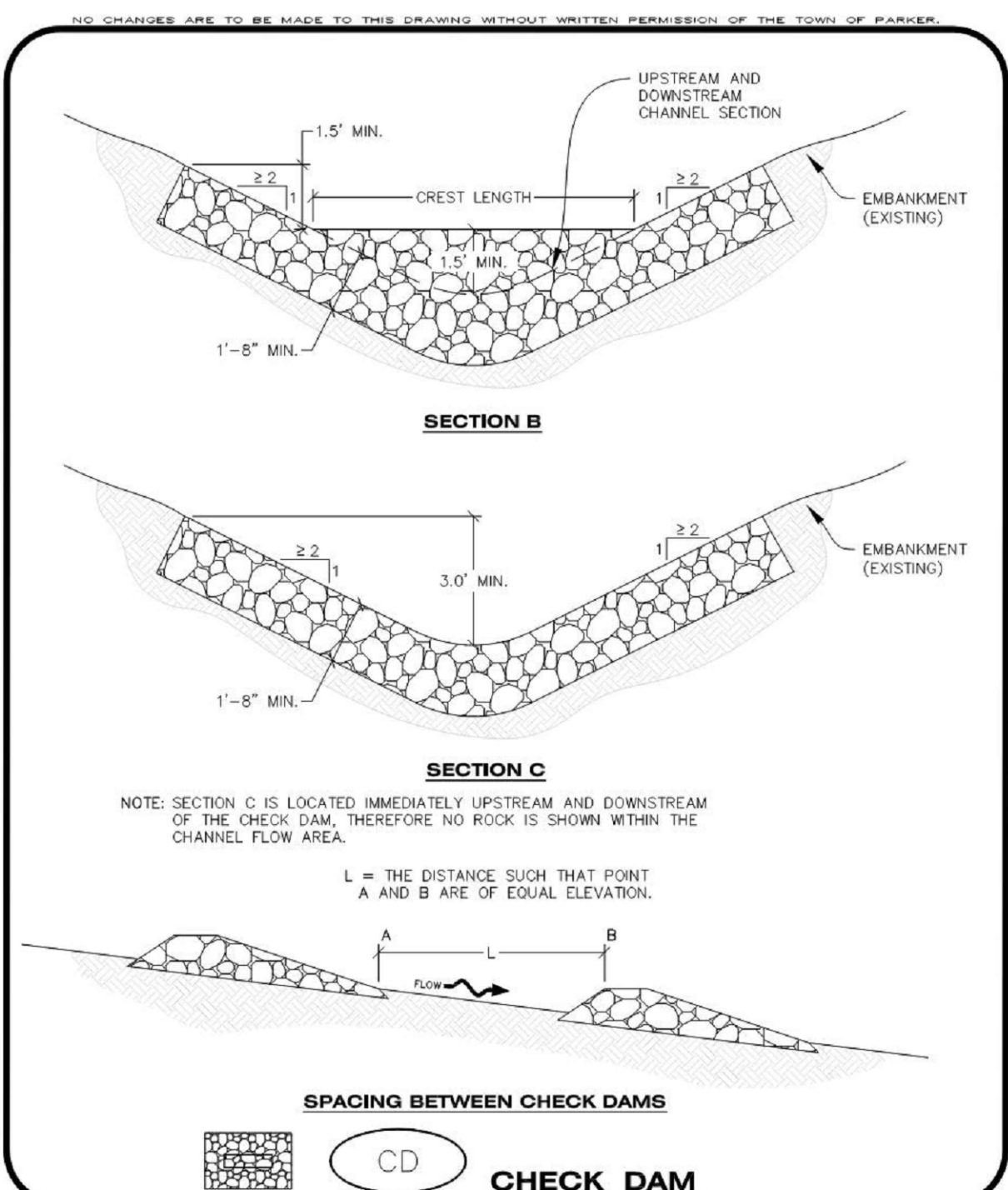
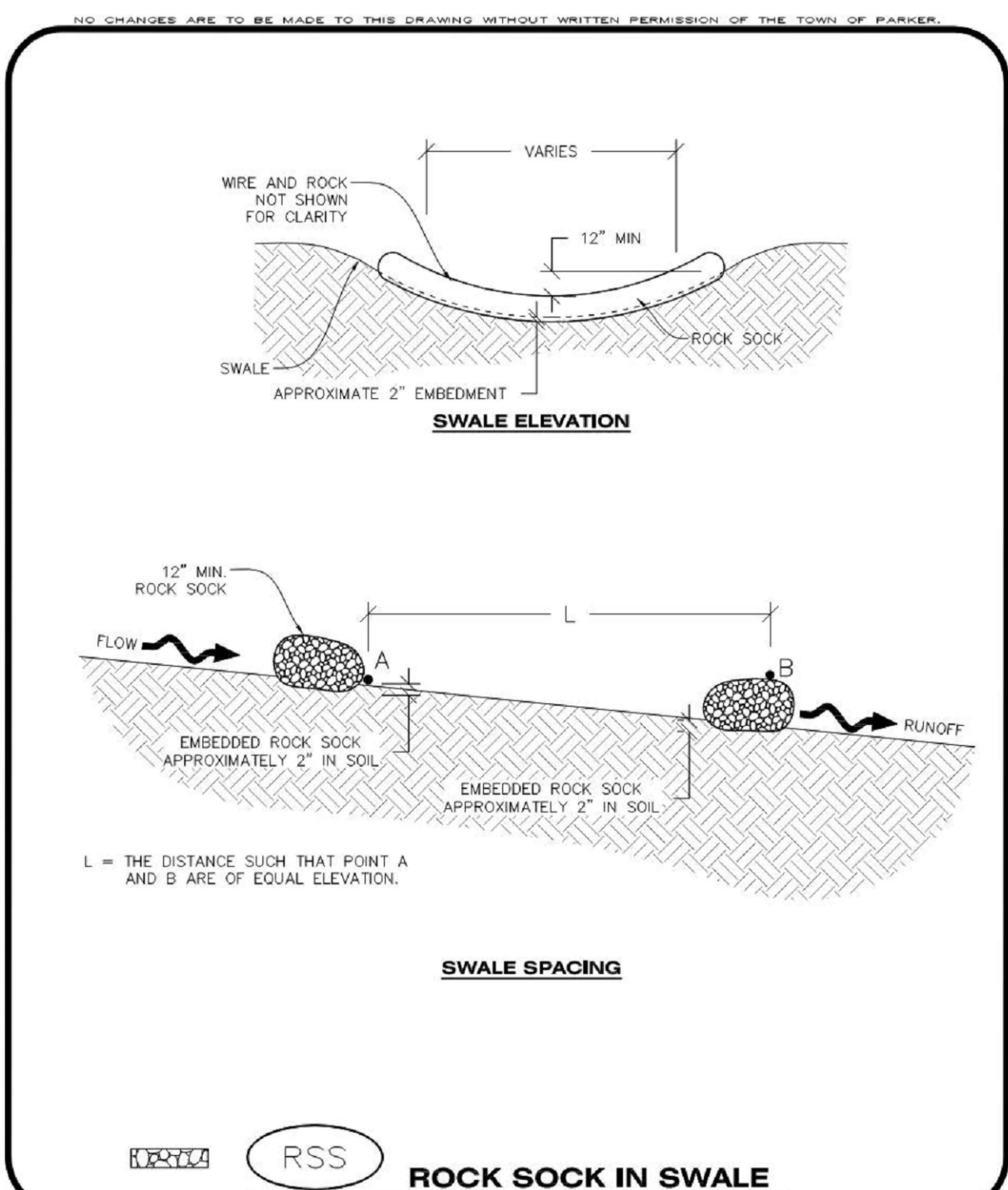
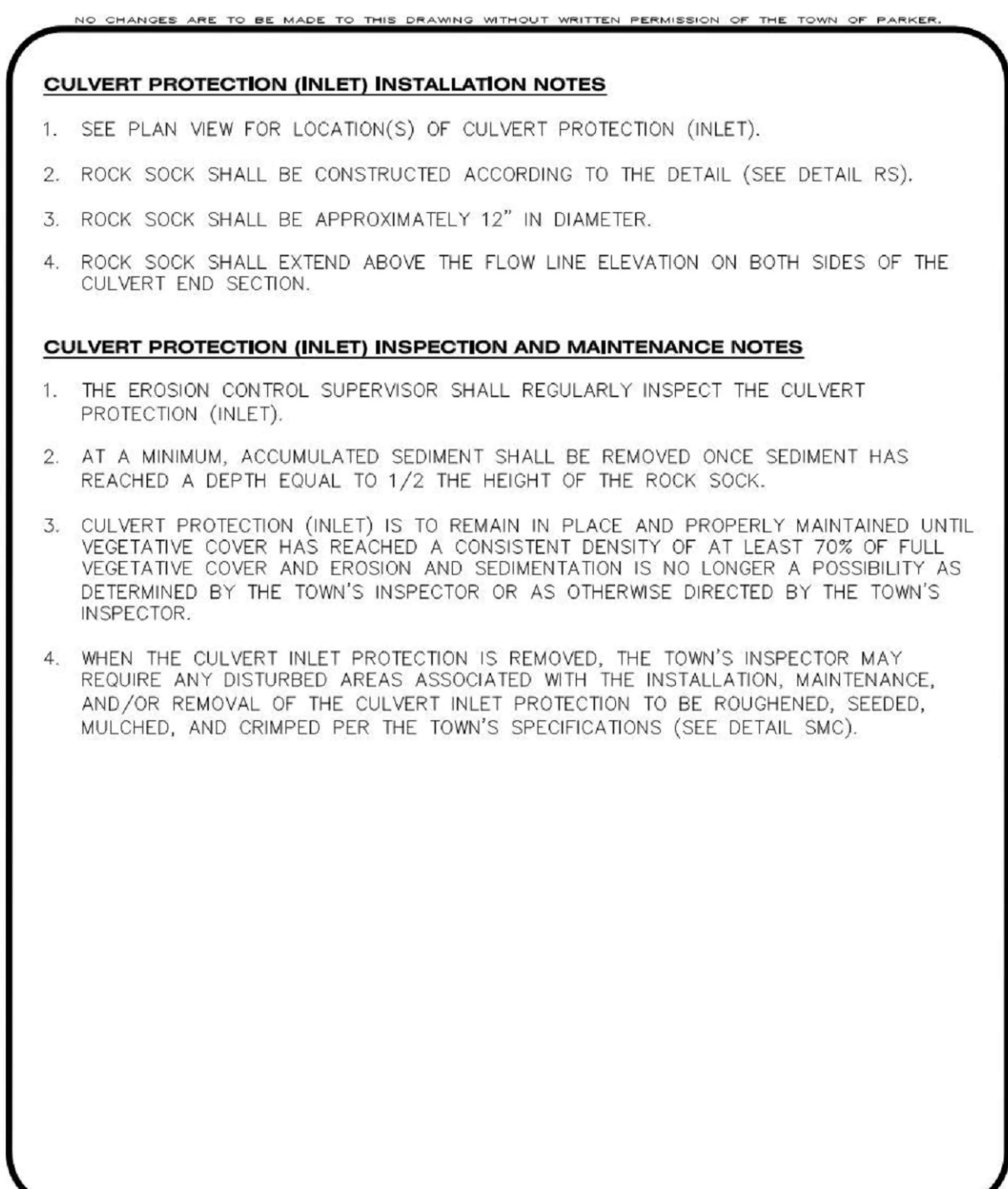
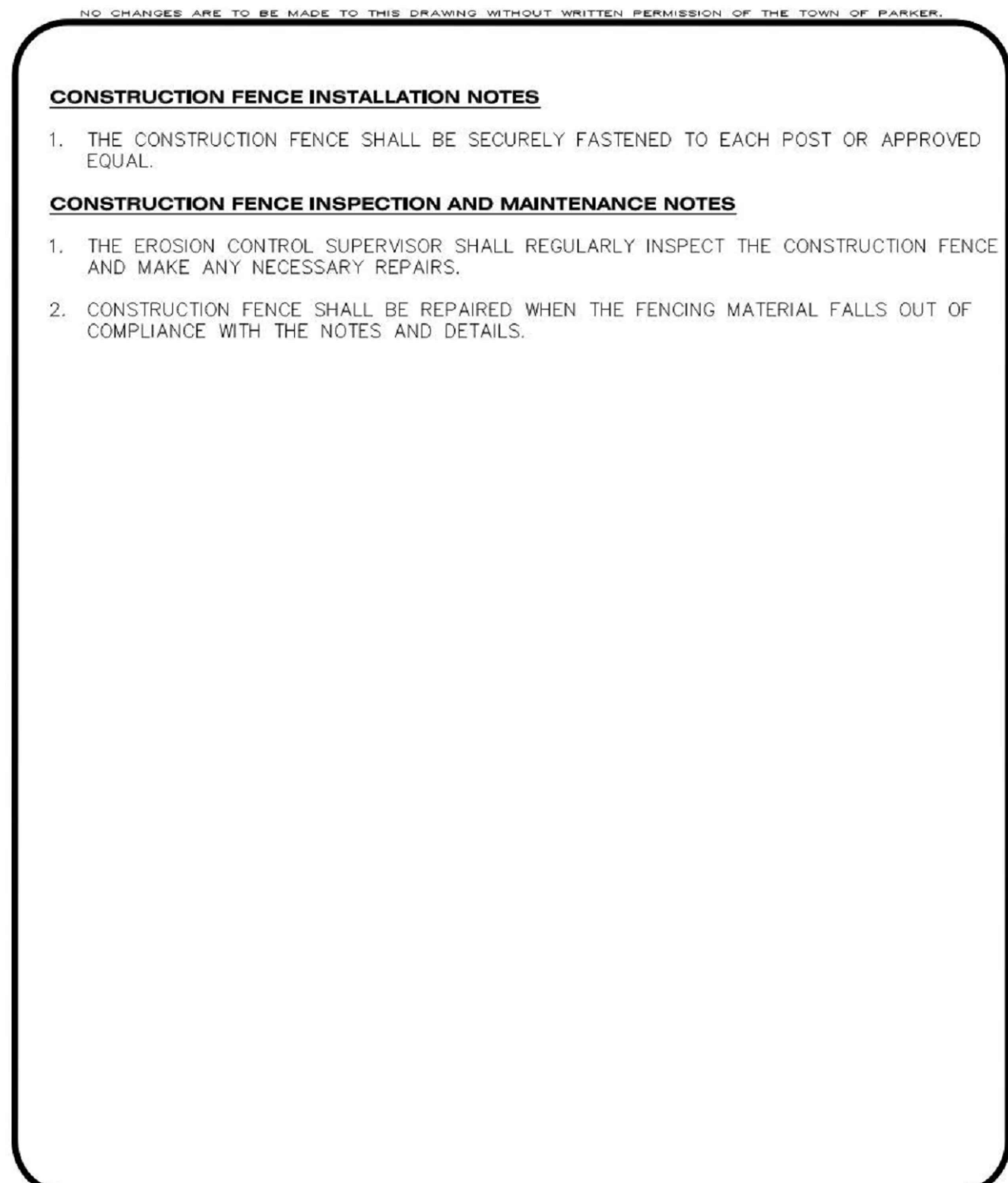
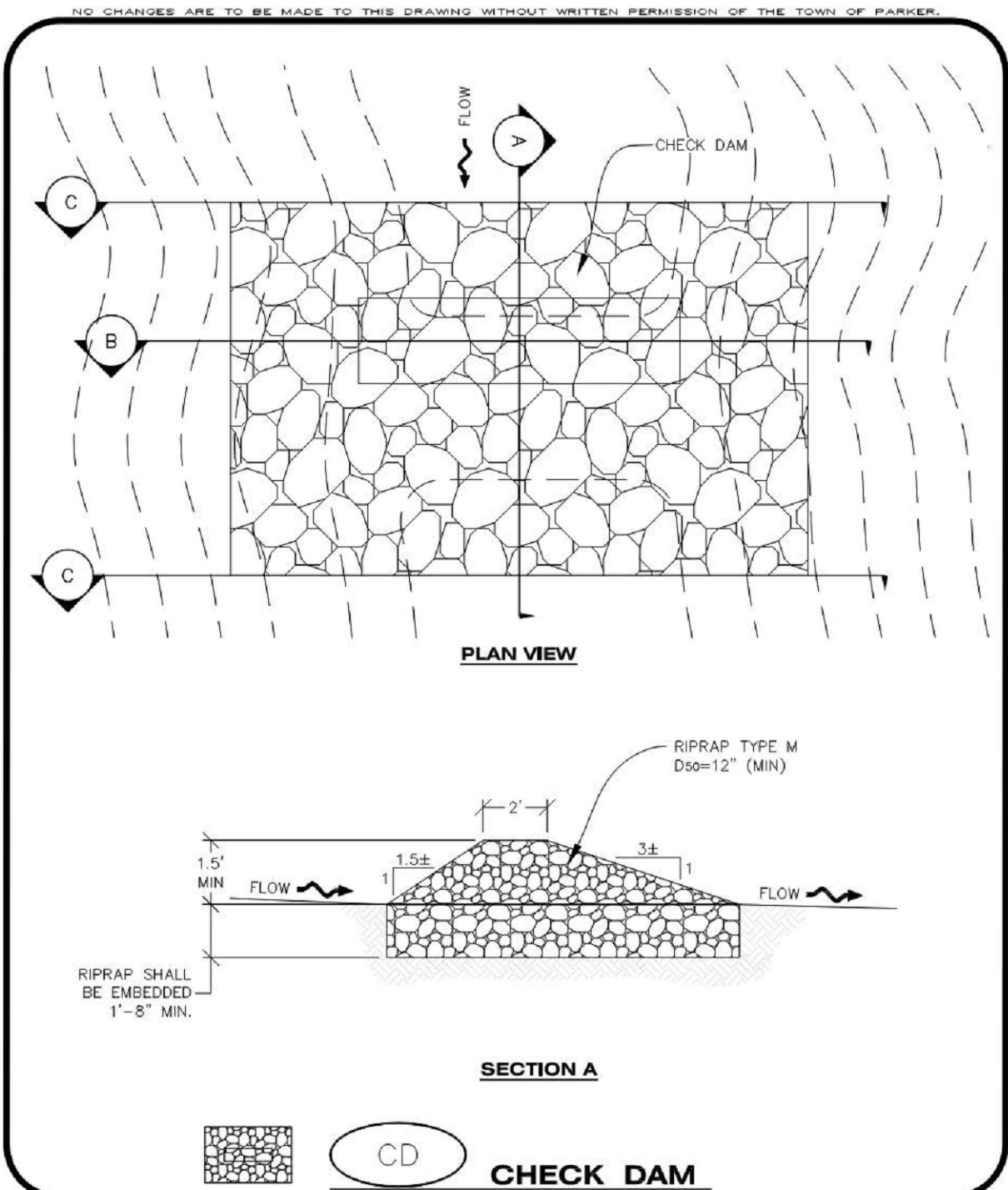
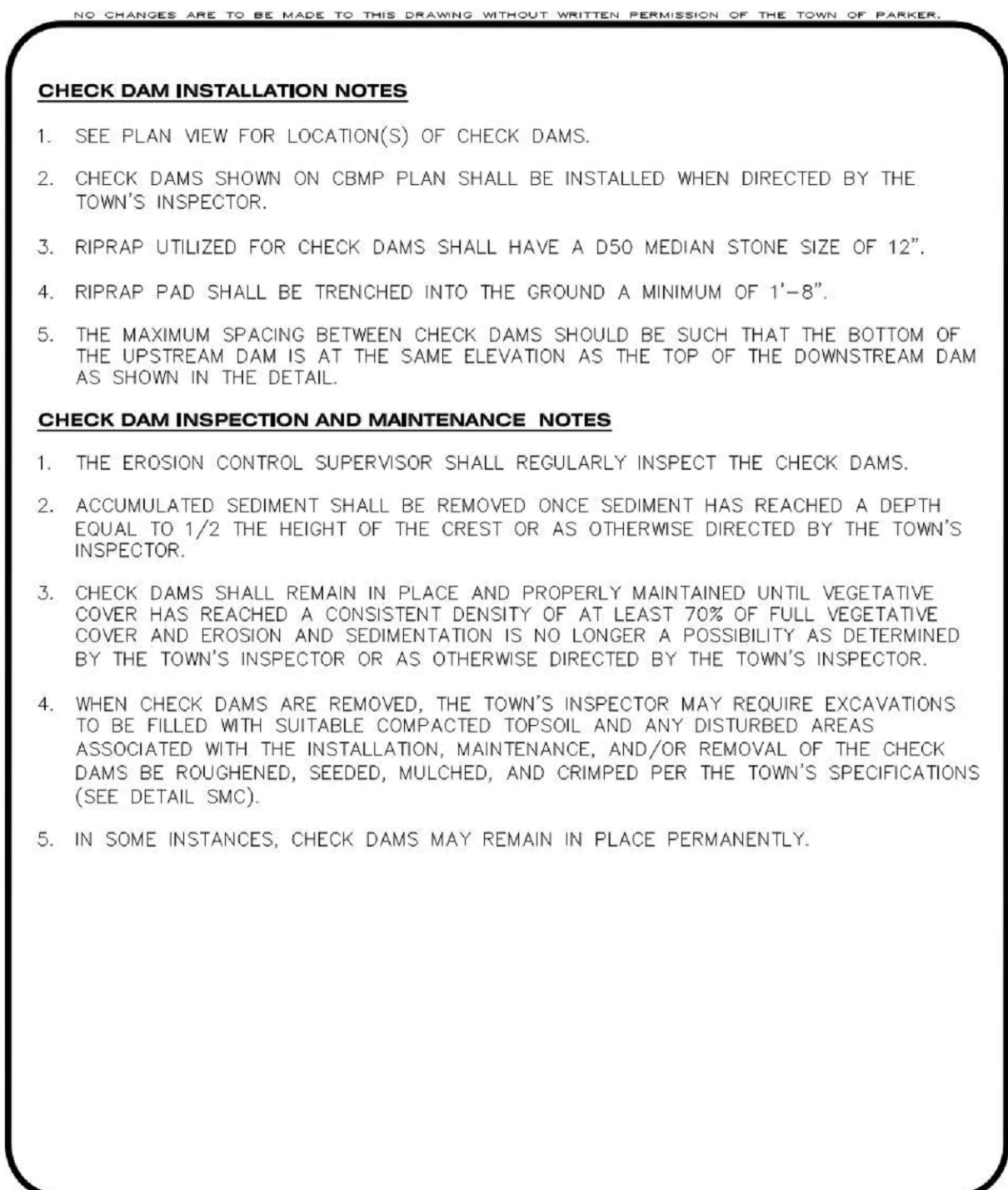
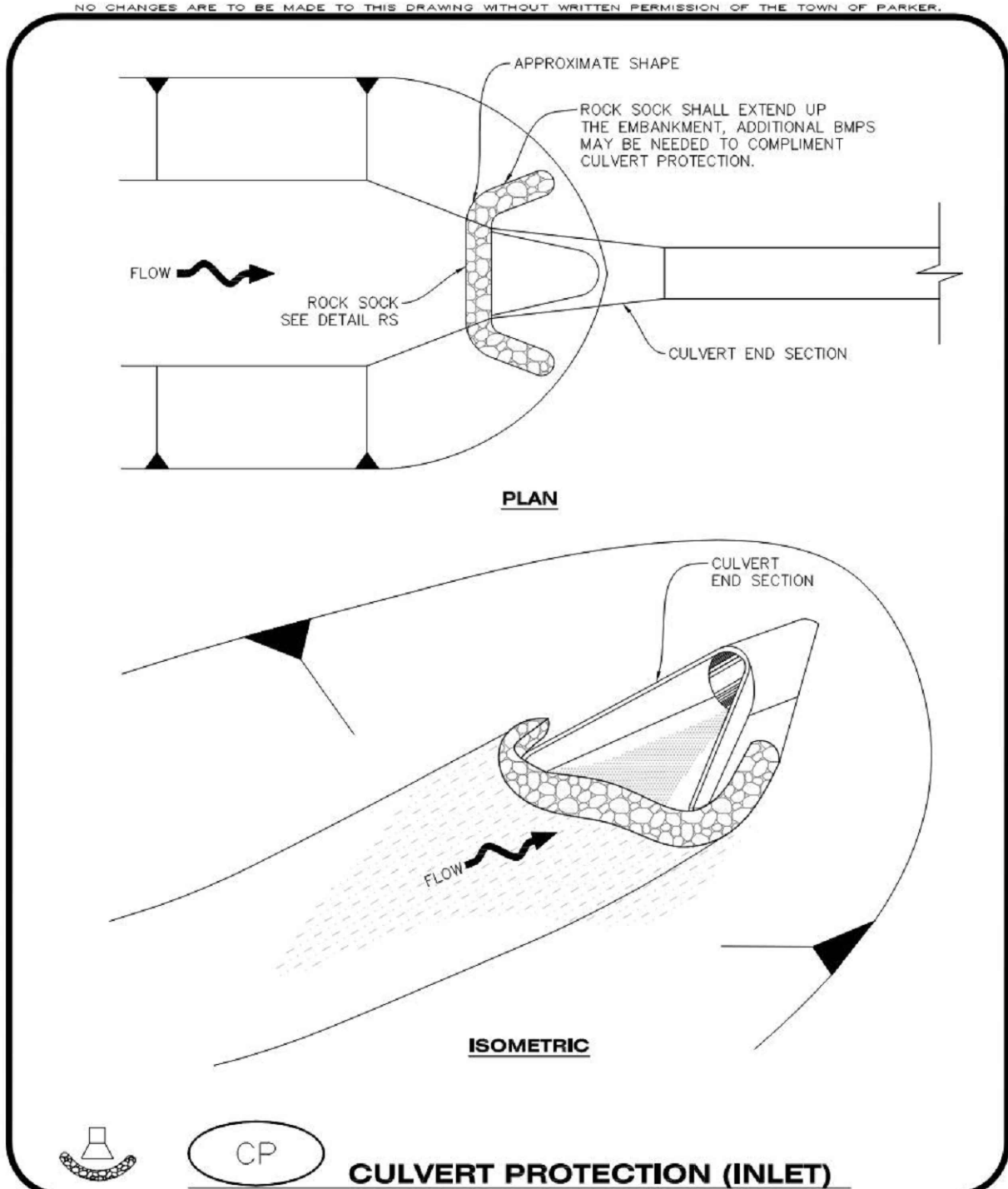
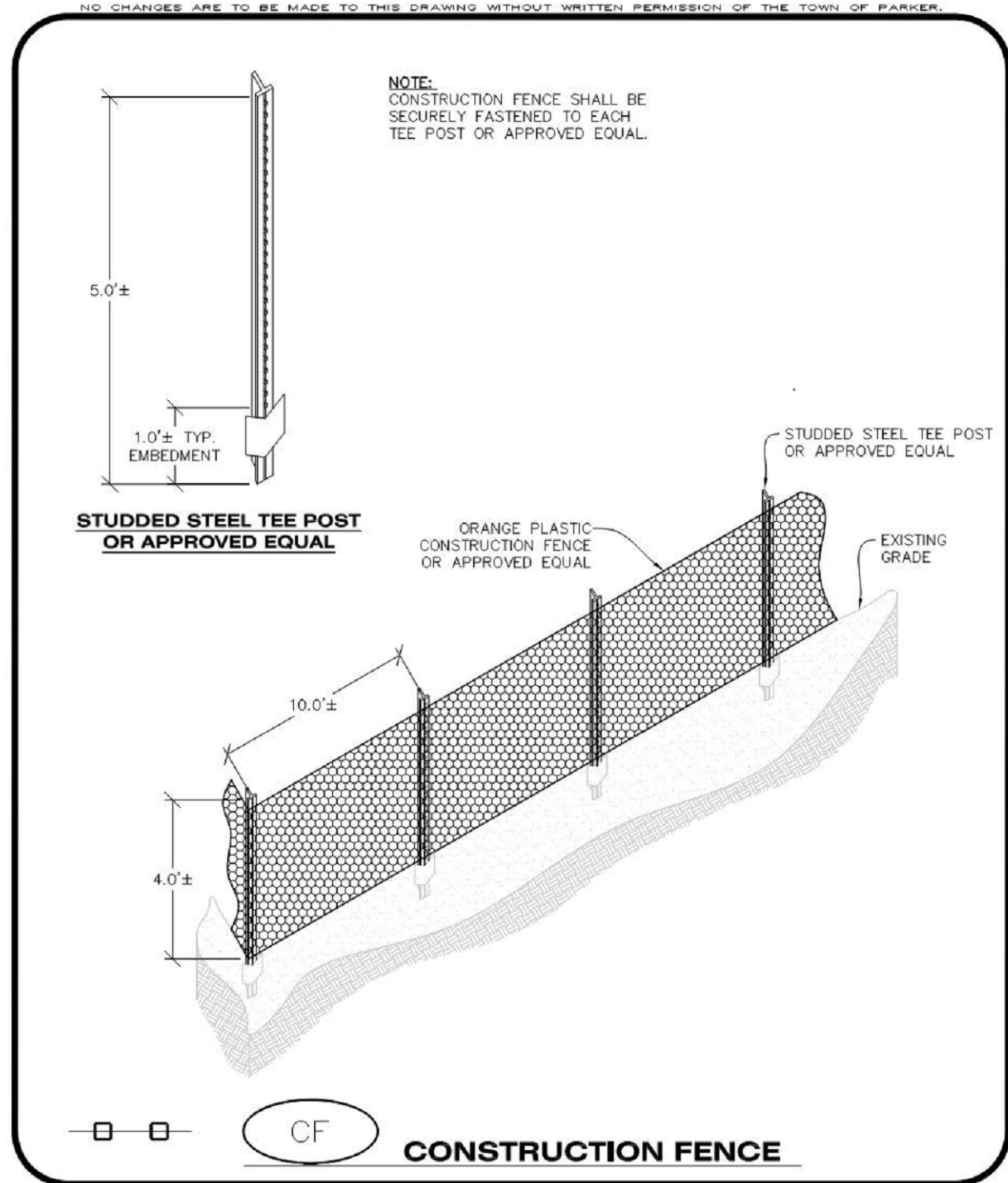
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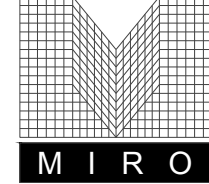
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DRAWING NUMBER:
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PROJECT: **ADVENTHEALTH PARKER EXPANSION**
PARKER, CO 80138

DRAWING TITLE: **EROSION CONTROL DETAILS**

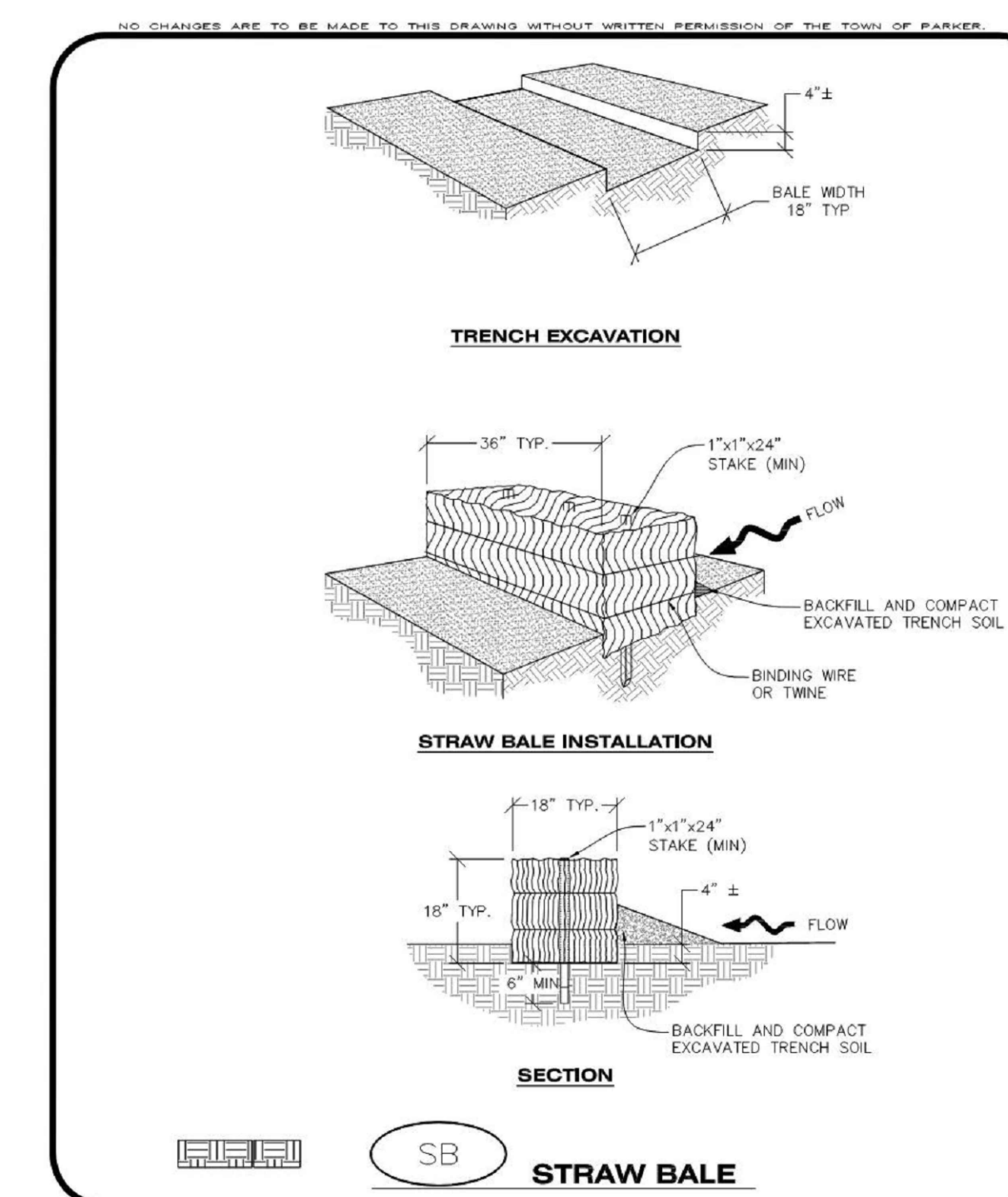
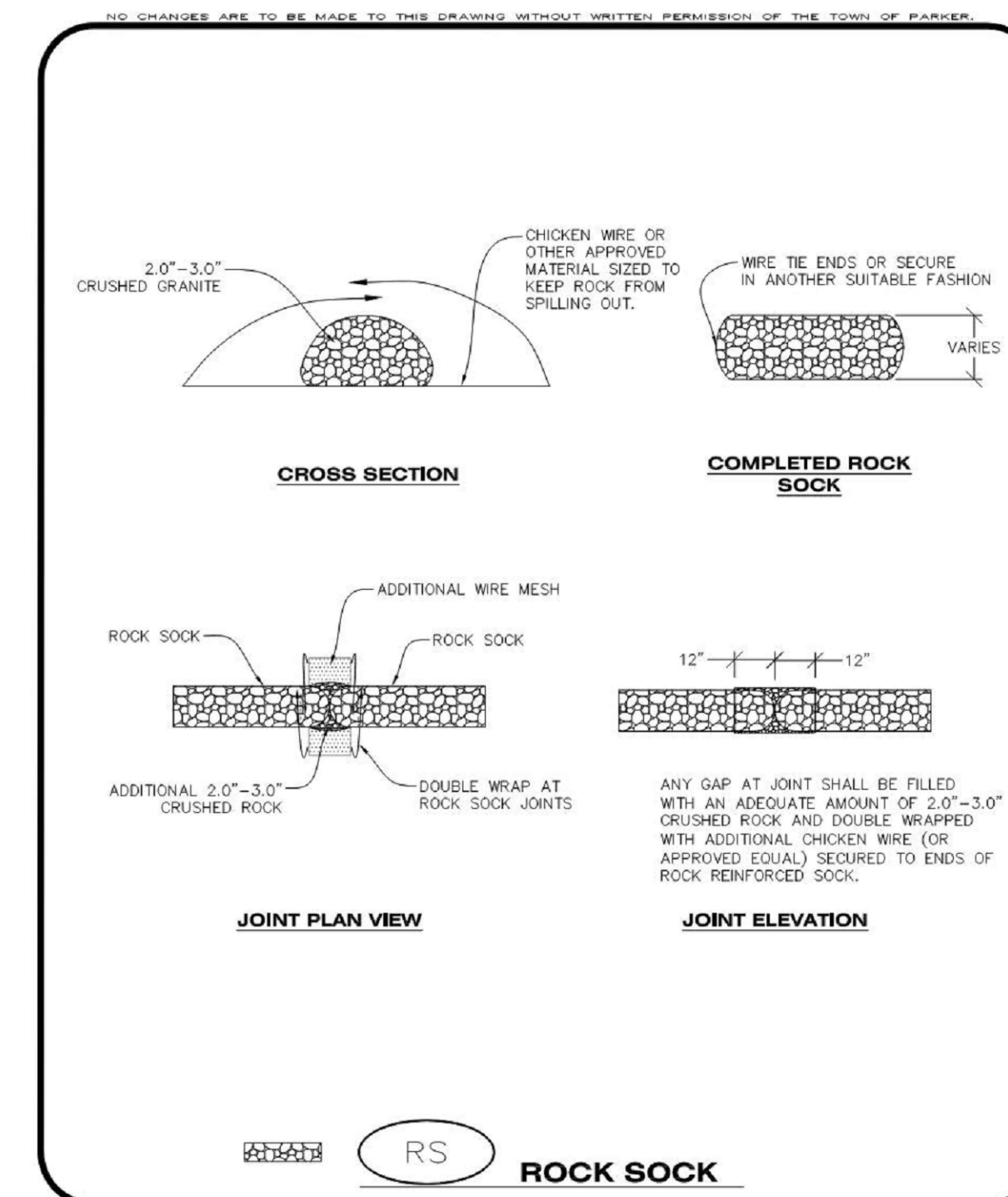
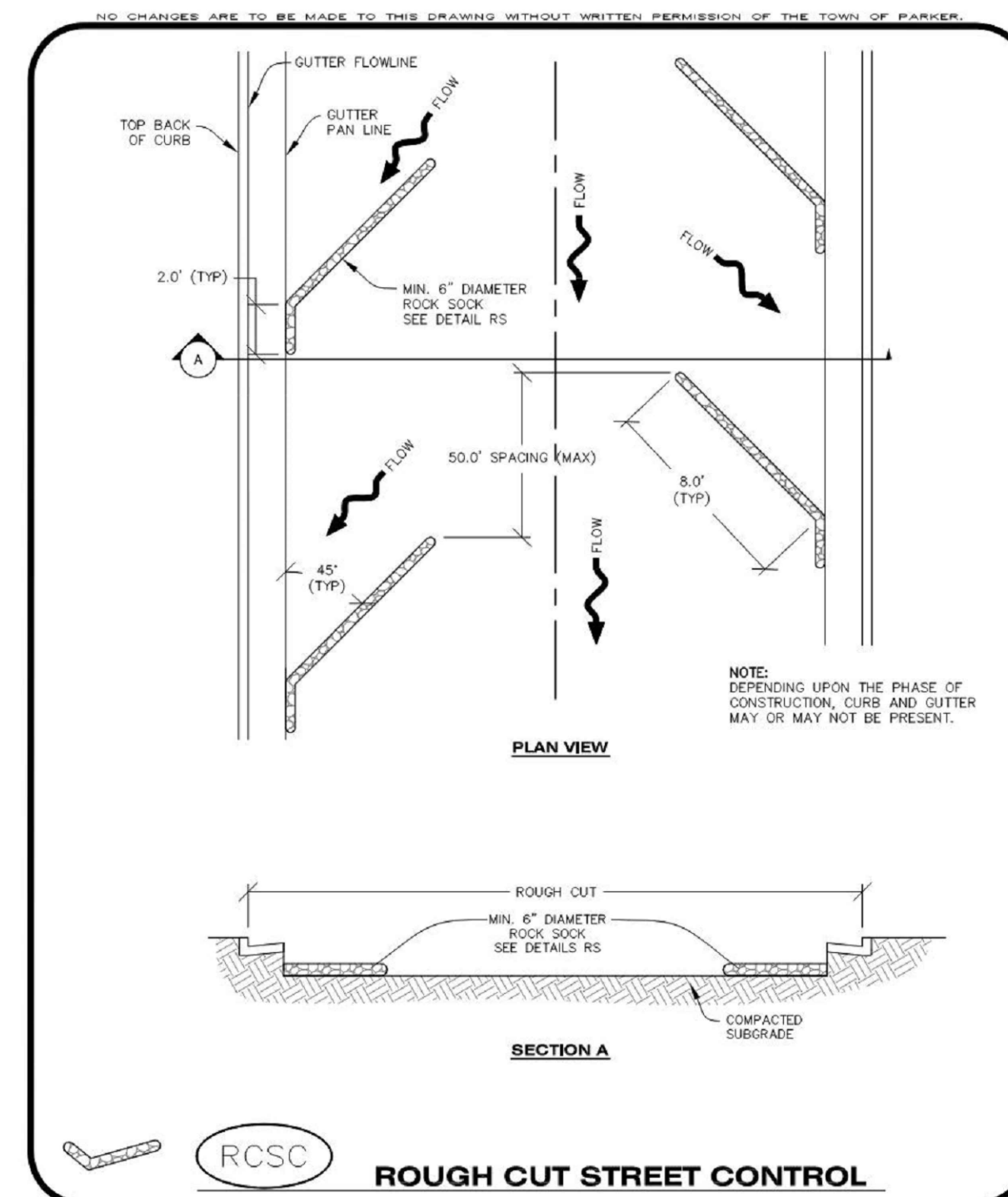
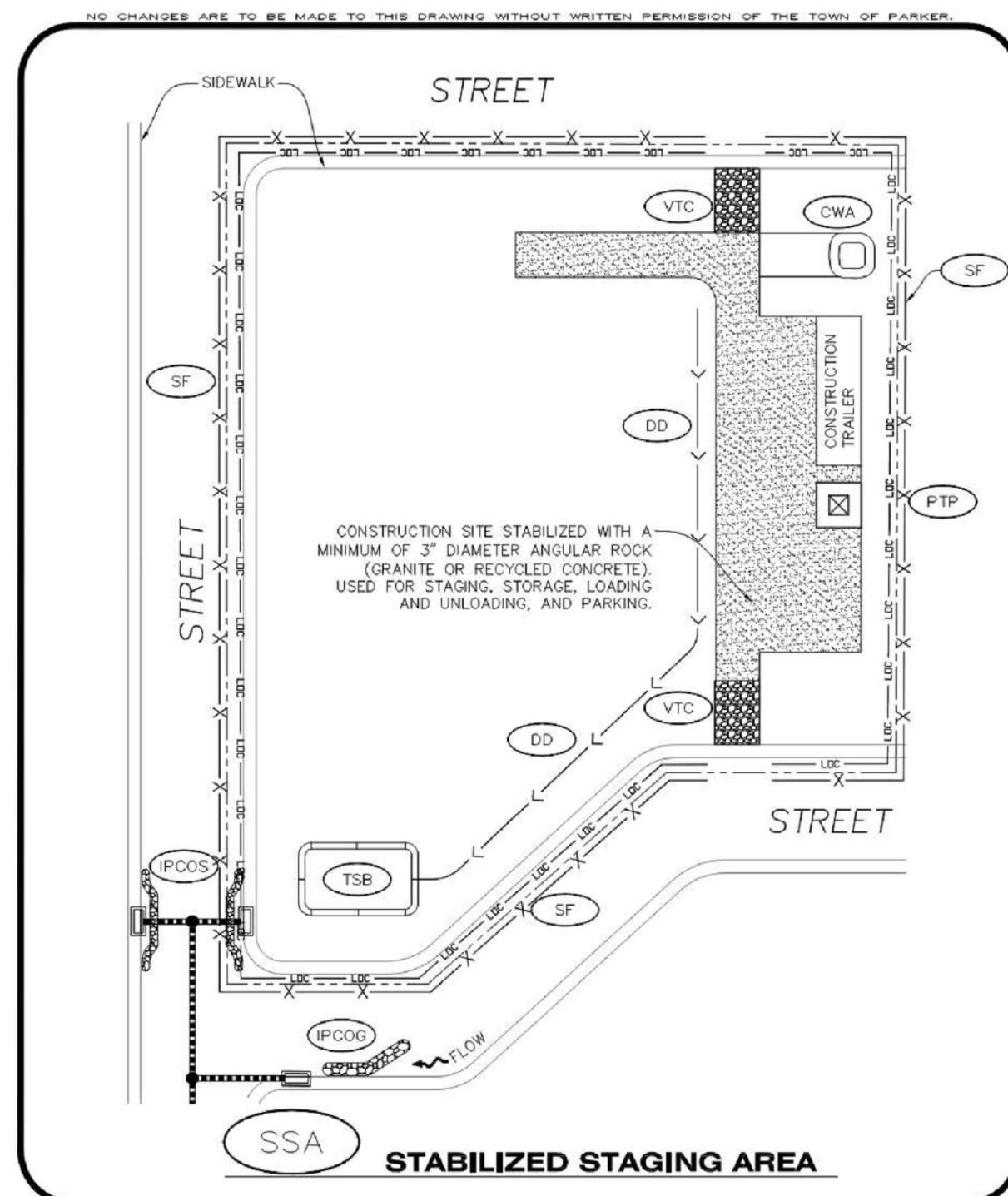
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C254



- ### STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE CBMP PLAN IN 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.



- ### 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 ROCK.
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 SUBGRADE PREPARATION BEGINS FOR PAVING. AT THAT POINT, THE RSCC SHOULD BE REMOVED IN INCREMENTS BASED ON SUBGRADE PREPARATION.



ROCK SOCK INSTALLATION NOTES

1. SEE CEMP 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 SUBJECT TO WHOLE OR PARTIAL 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.



STRAW BALE INSTALLATION NOTES

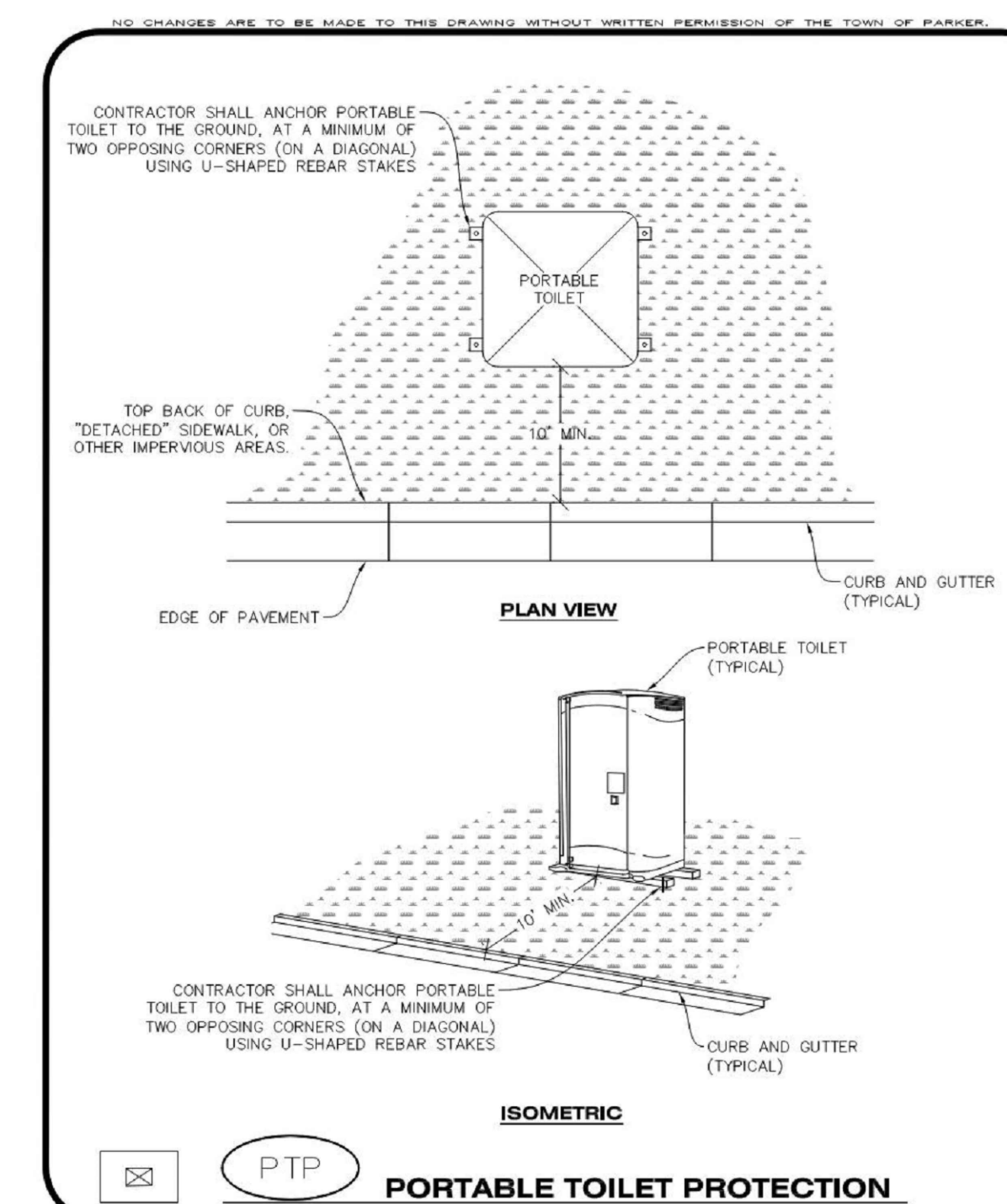
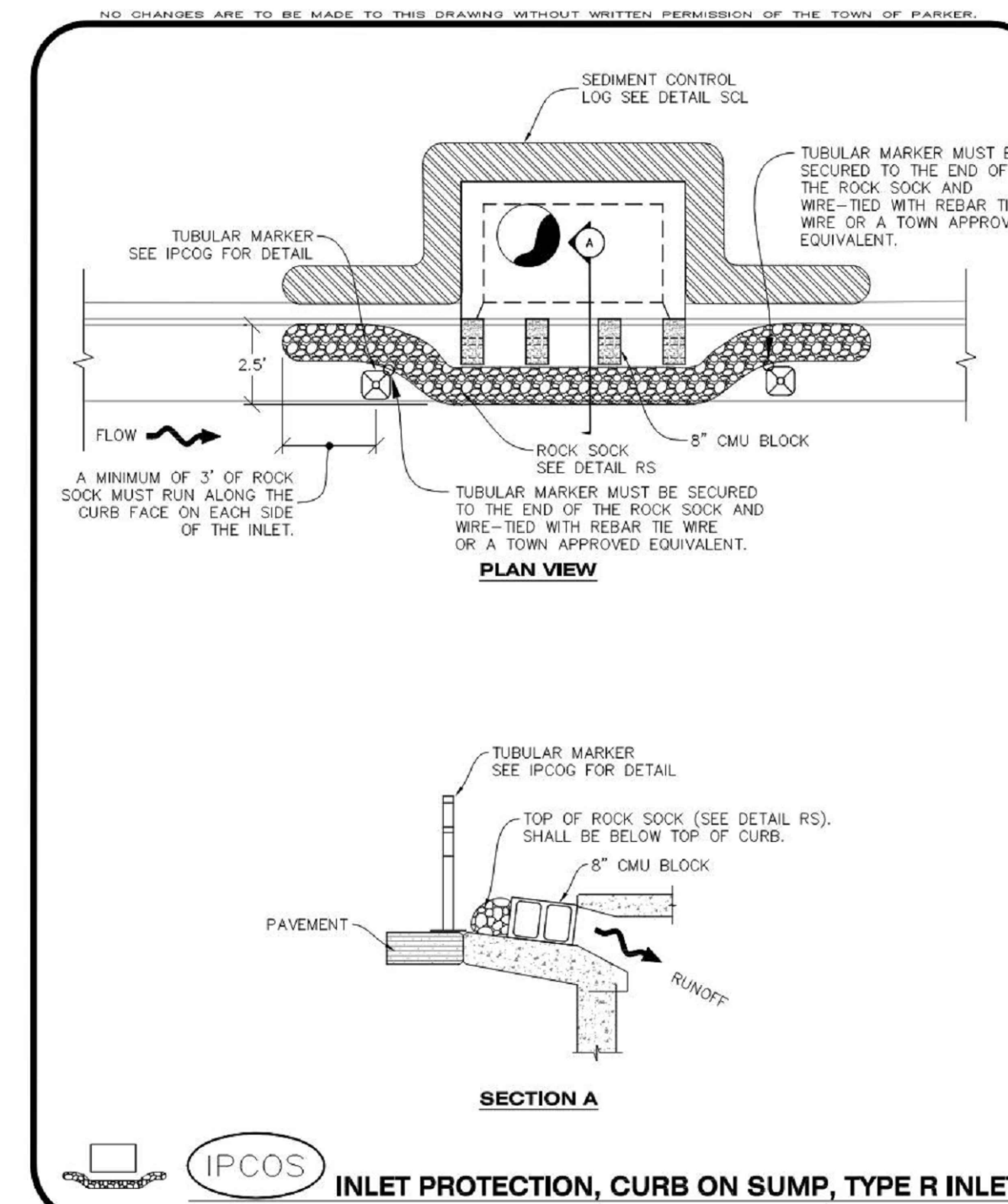
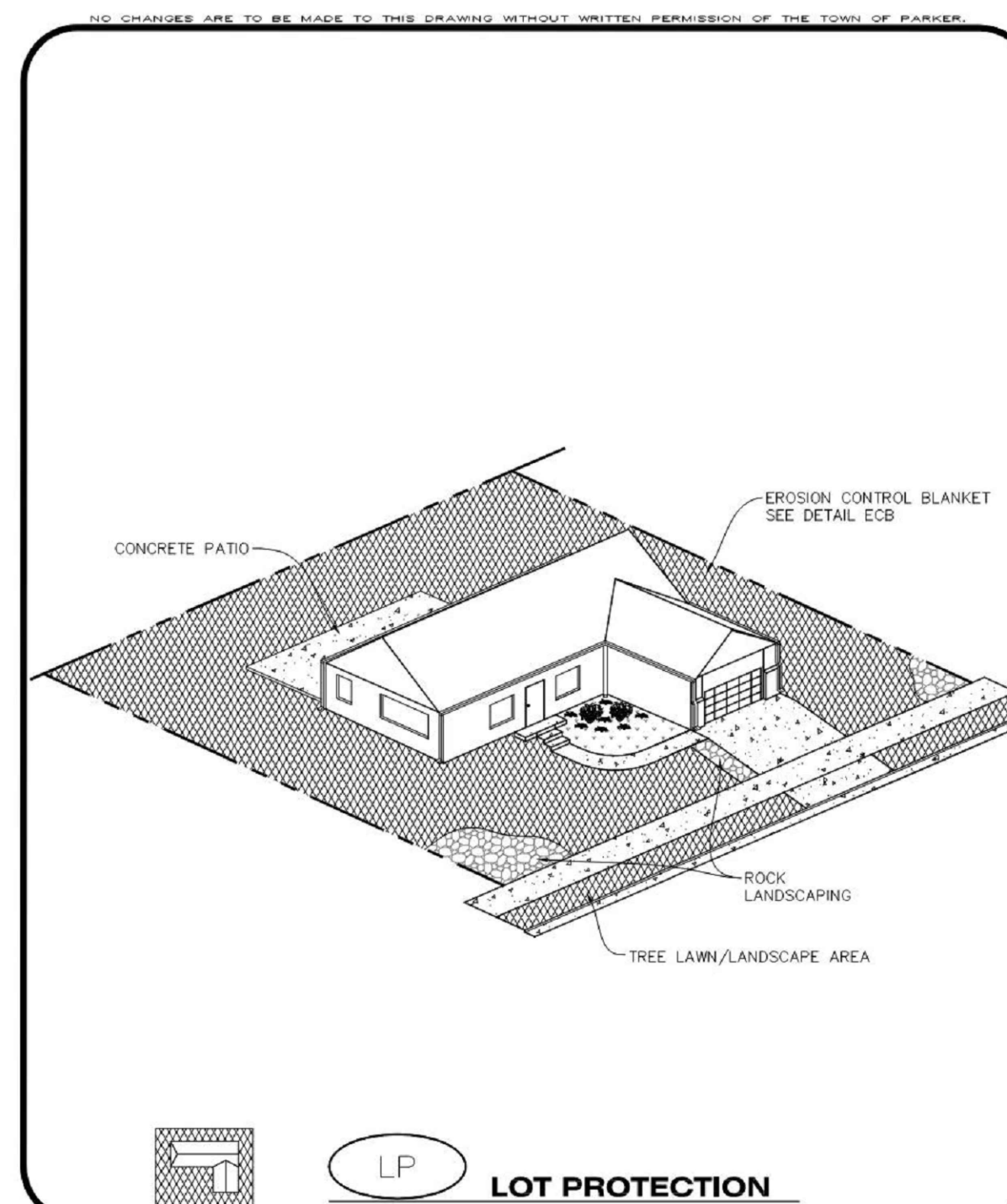
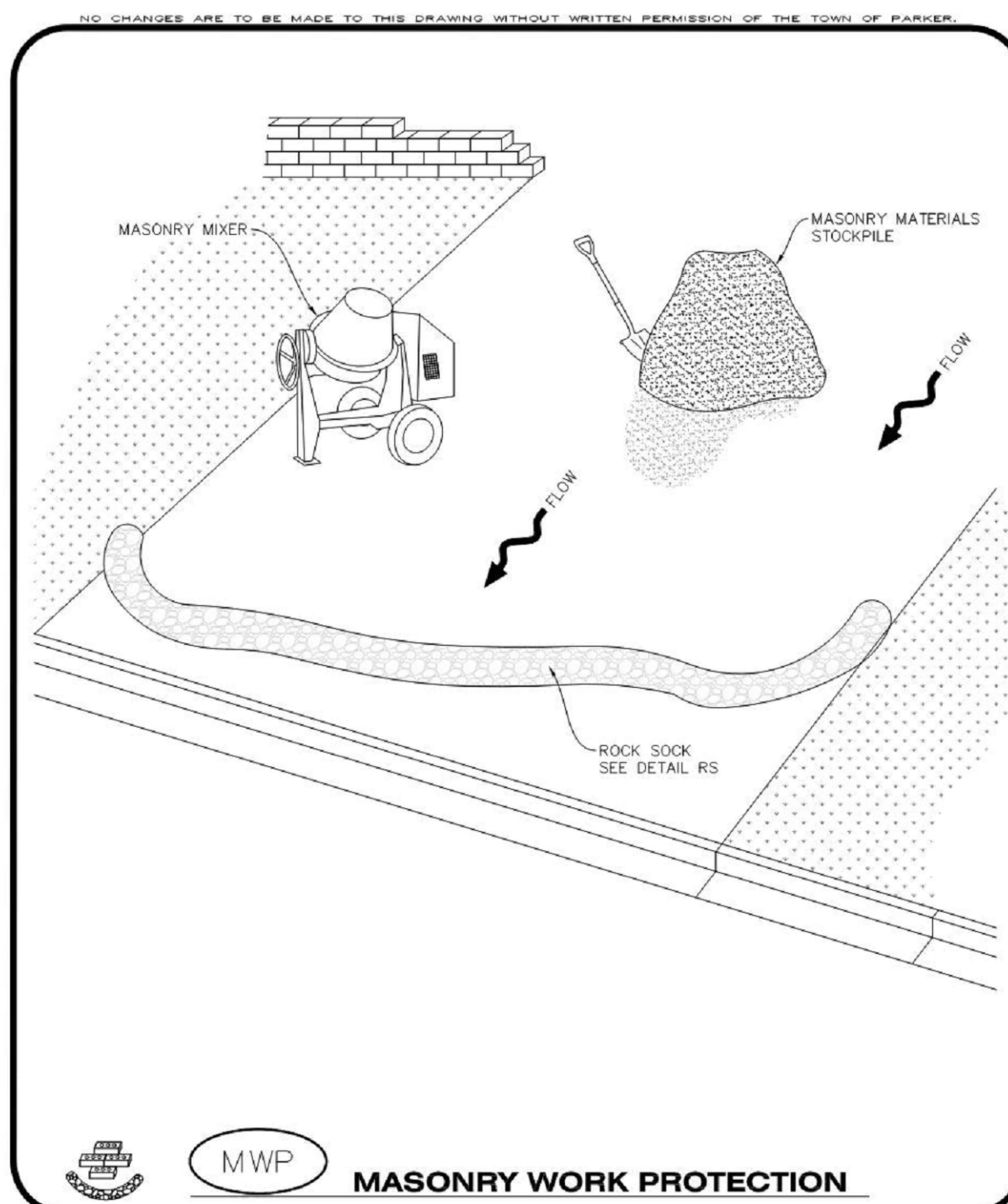
1. SEE CBMP PLAN FOR LOCATION(S) OF STRAW BALES.
2. TYPICAL STRAW BALES SHALL BE APPROXIMATELY 36"x18"x18".
3. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE A MINIMUM OF 1"x1"x24".
4. WOODEN STAKES SHALL BE PLACED APPROXIMATELY 6" IN THE GROUND.
5. STRAW BALES 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. COVER 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 REVEGETATED, SEEDING, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).



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PROJECT:	ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138
DRAWING TITLE:	EROSION CONTROL DETAILS
FILE PATH:	C:\Users\leda\Documents\S. A. Miro, Inc.\Civil\jobs\23079 AHP - Expansion\65 CAD\Plans and Details\C251-EROS-DTLS.dwg C255 - 8/16/2024
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DRAWN BY:	EDS
CHECKED BY:	MHV
MIRO JOB NO.	23079
DRAWING NUMBER: C255	



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.



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.



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. NO 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. RUCK 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.



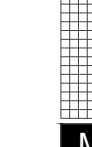
PORTABLE TOILET PROTECTION INSTALLATION NOTES

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 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.





S. A. MIRO, INC.

CIVIL & STRUCTURAL

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4582 S. Ulster St., Suite 750

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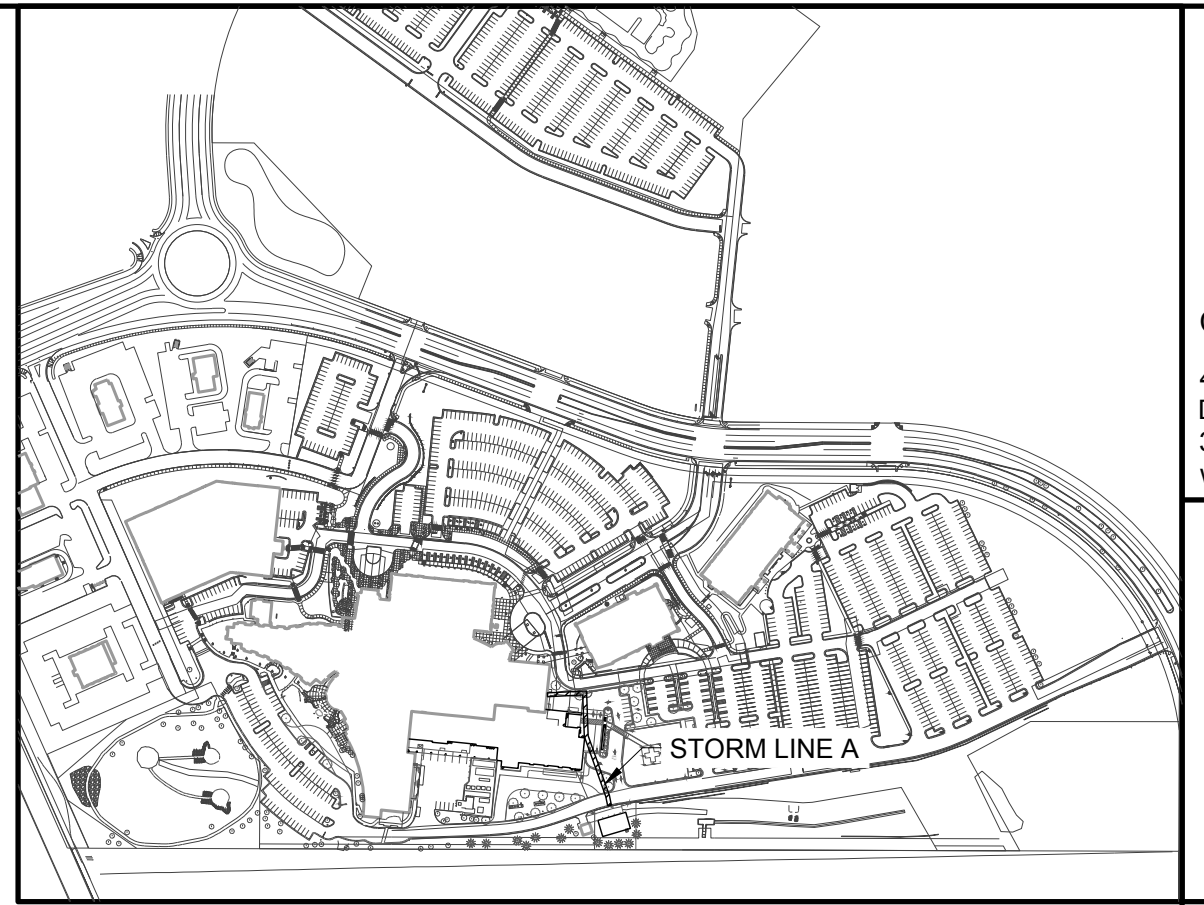
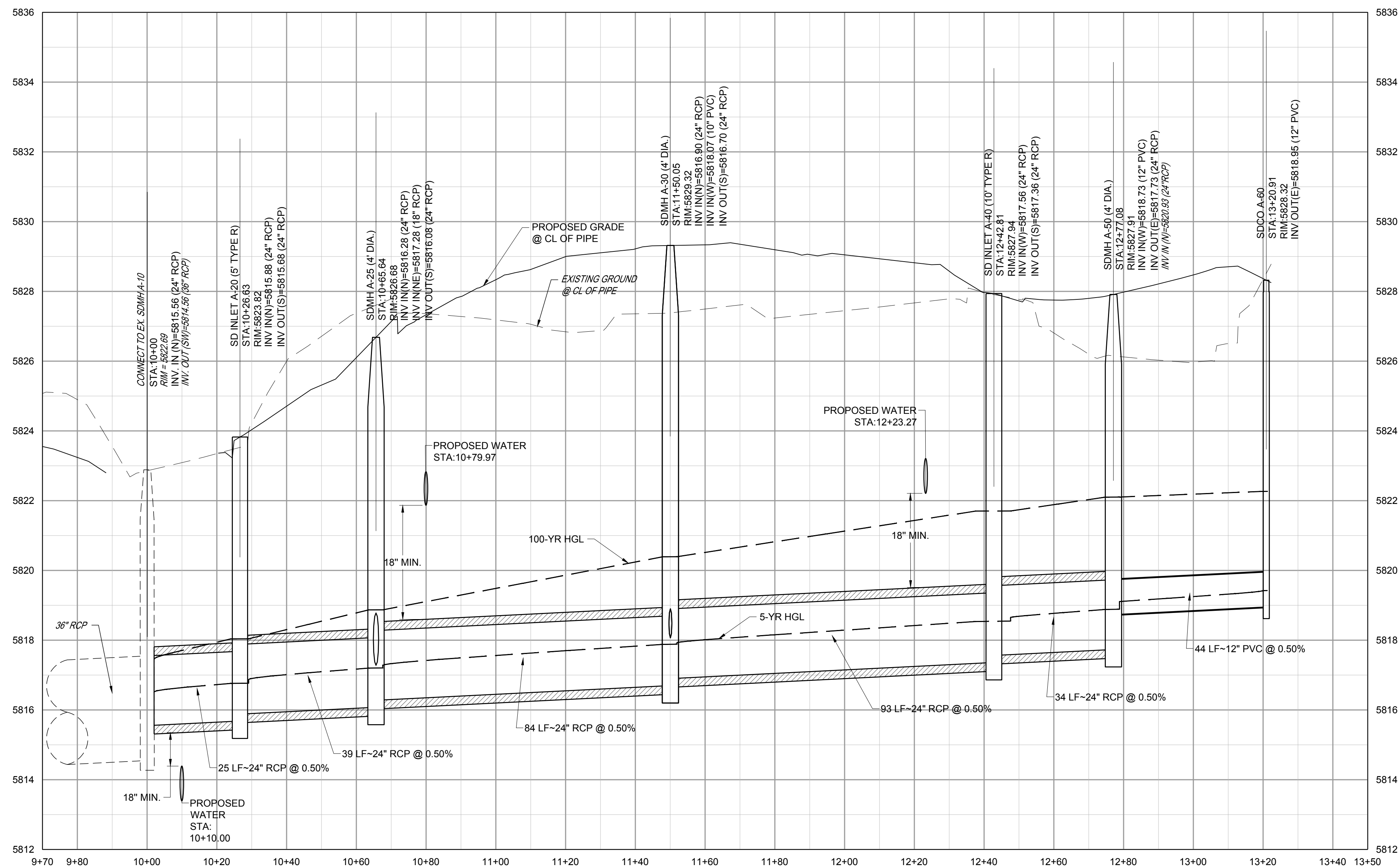
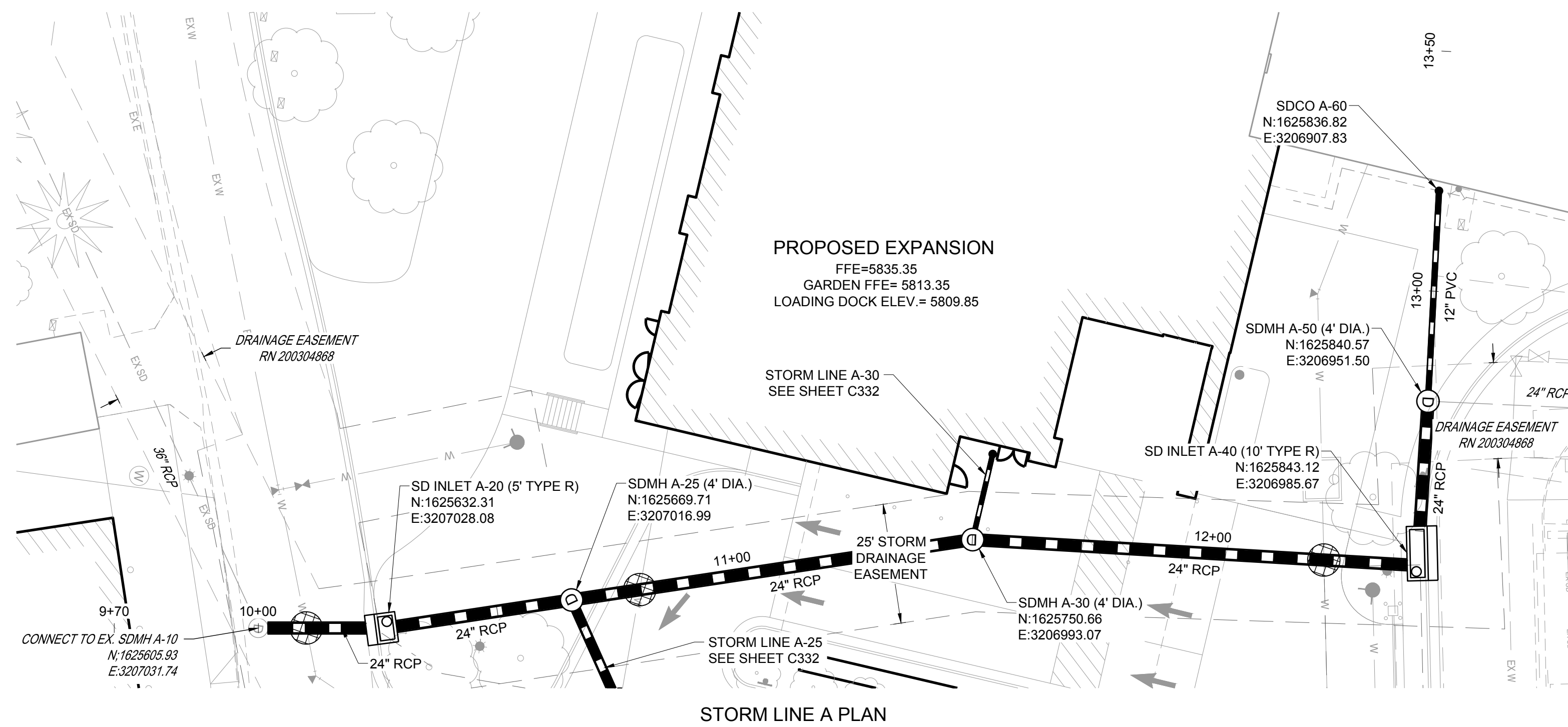
PROJECT:	NO.	DESCRIPTION	DATE
ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	1	1ST TOWN SUBMITTAL	06/03/2024
	2	2ND TOWN SUBMITTAL	06/16/2024
DRAWING TITLE:			
EROSION CONTROL DETAILS			
FILE PATH: C:\Users\eds\OneDrive\A. A. Miros\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C2561-EROS-DTLS.dwg C256 - 8/16/2024			

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- NOTES:**
-
1. SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.
 2. ALL EXISTING DRY UTILITIES ARE ASSUMED TO BE 3' DEEP TO TOP OF PIPE.
 3. ALL EXISTING WATER LINES ARE ASSUMED TO BE 4.5' DEEP TO TOP OF PIPE.
 4. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICTS IMMEDIATELY.
 5. SEE SHEETS C351-XXX FOR STORM DETAILS.
- LEGEND:**

UTILITY CROSSING



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1	1ST TOWN SUBMITTAL	06/03/2024
2	2ND TOWN SUBMITTAL	09/16/2024

**ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

STORM PLAN AND PROFILE

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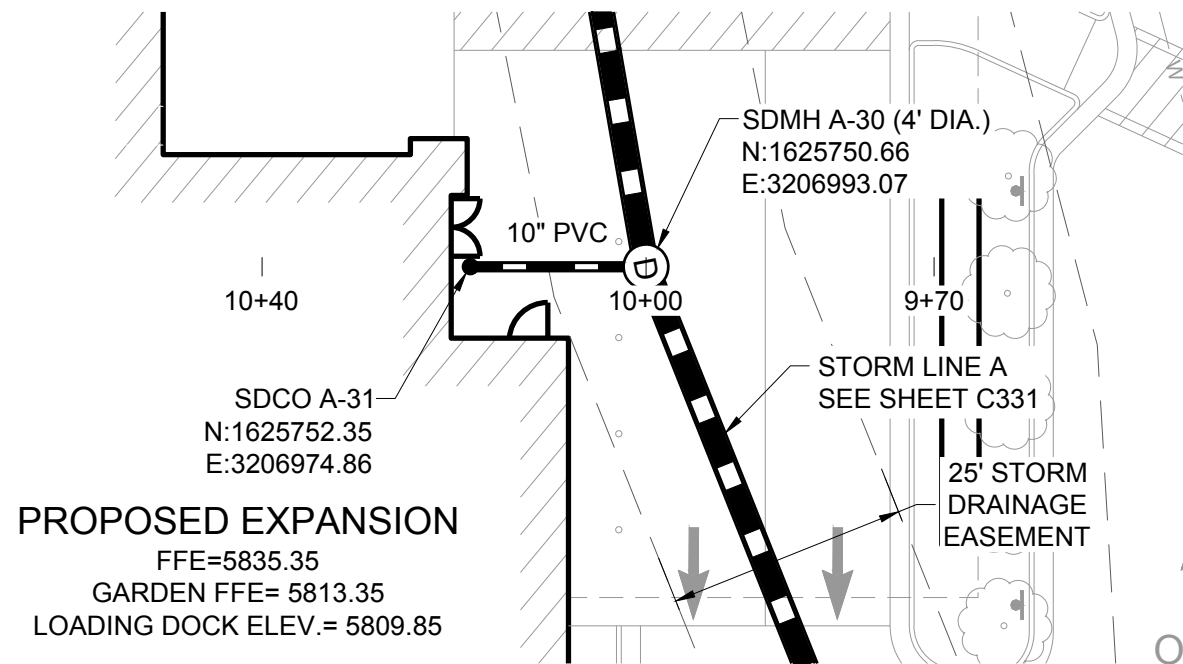
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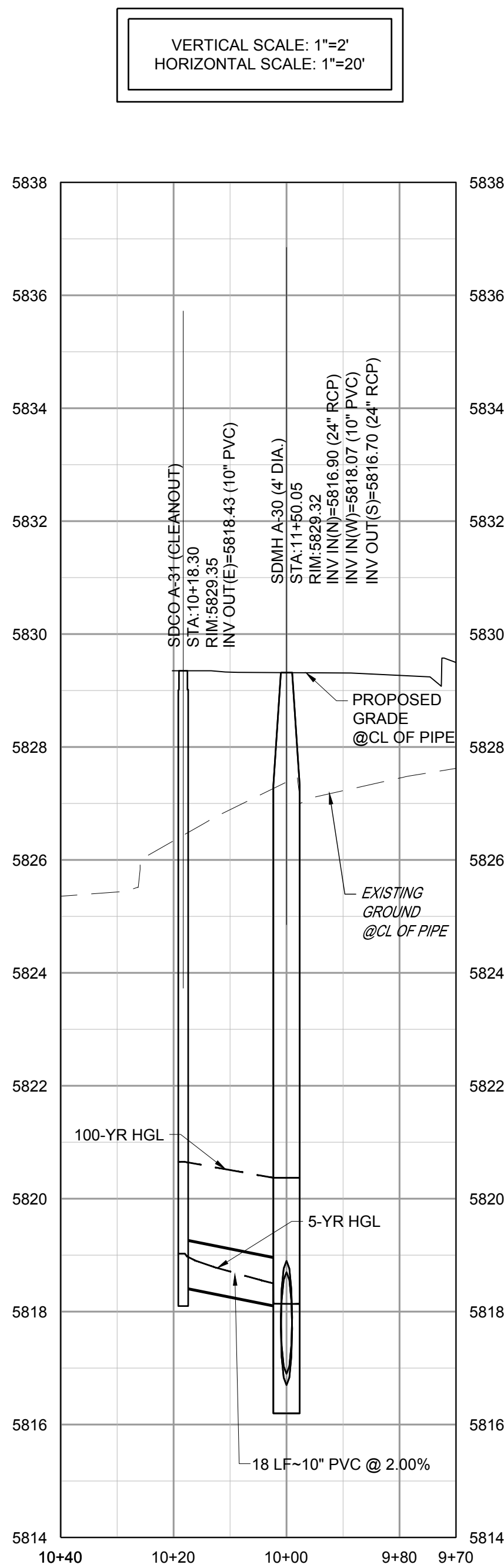
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DRAWING NUMBER:	

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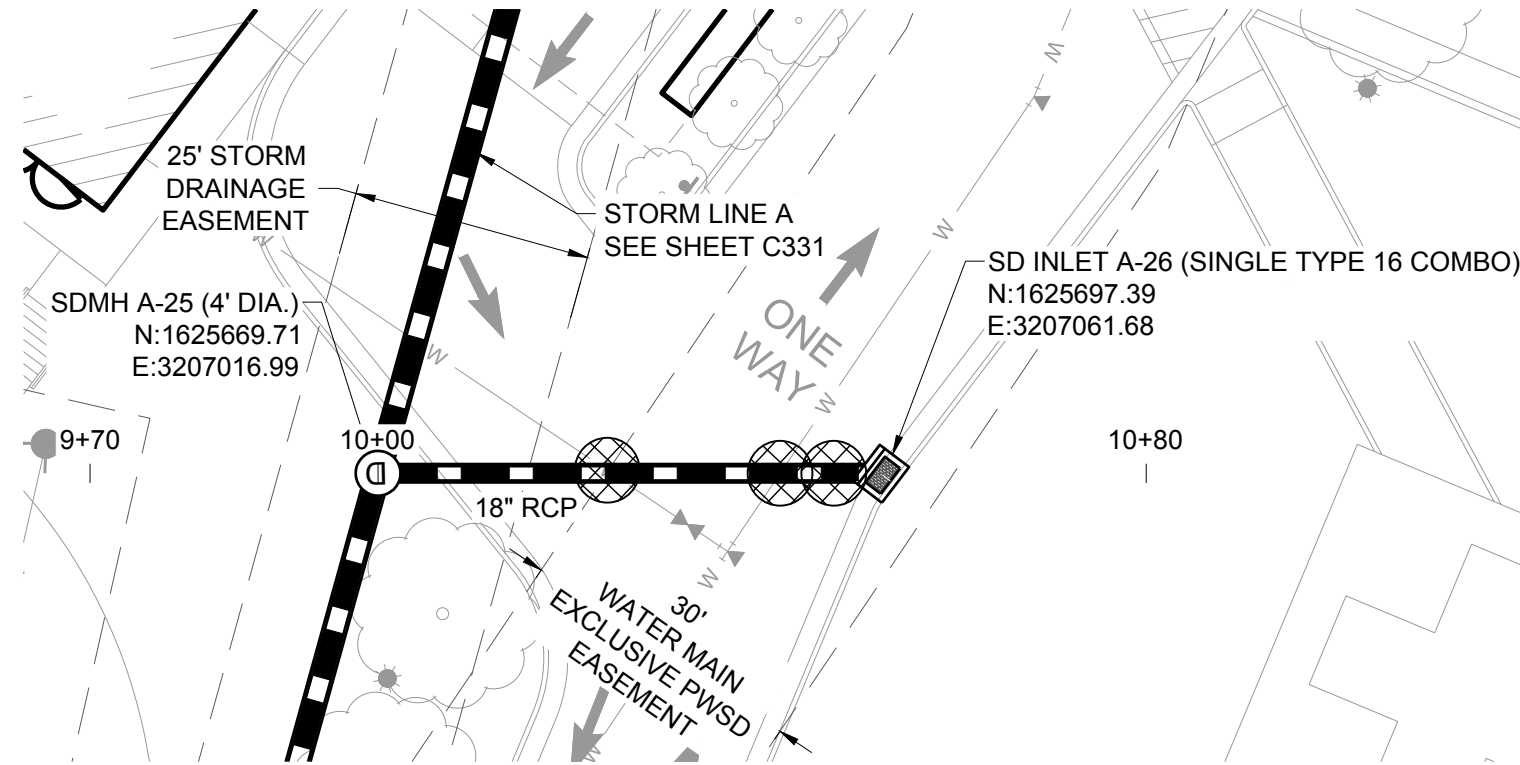
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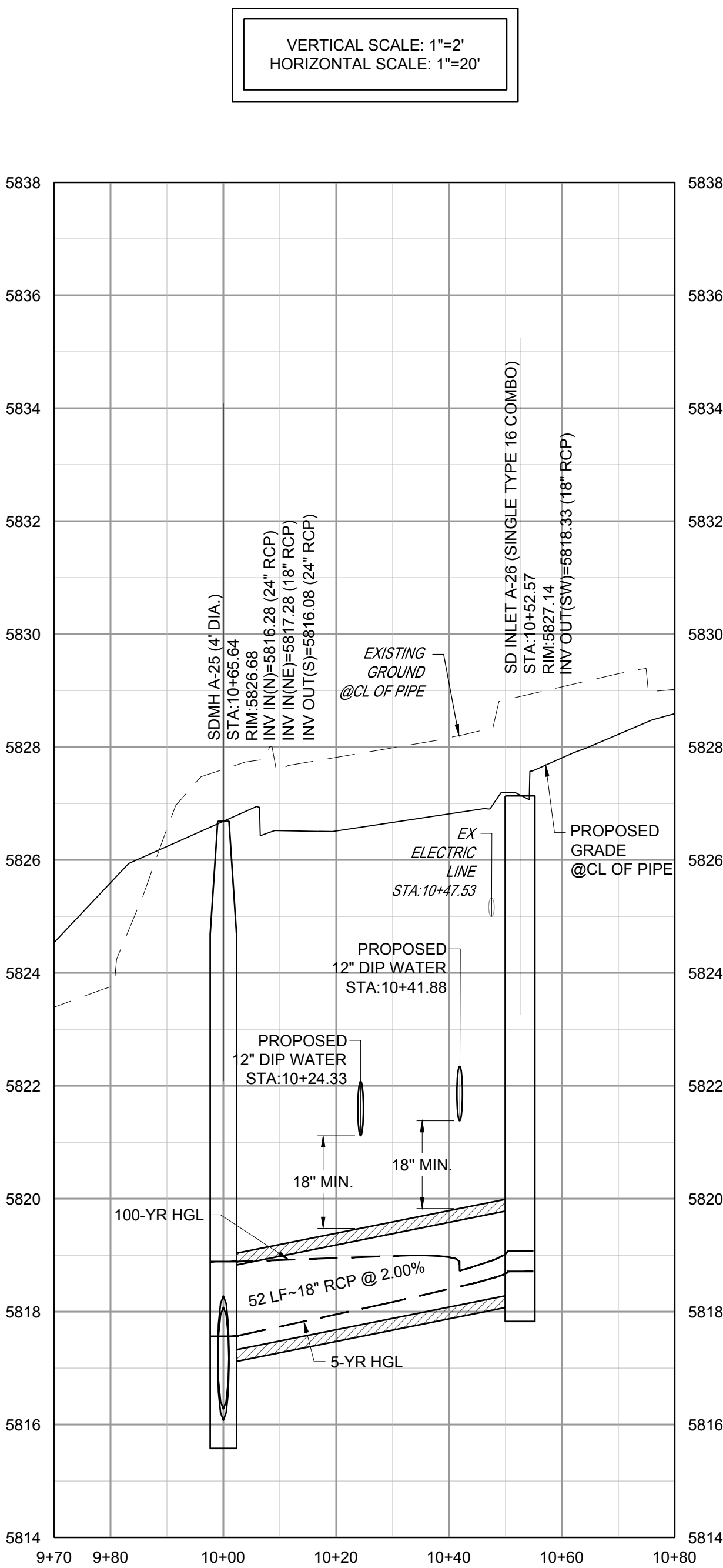
STORM LINE A-30 PLAN



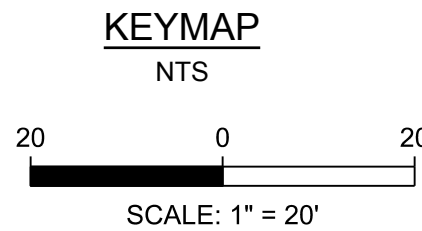
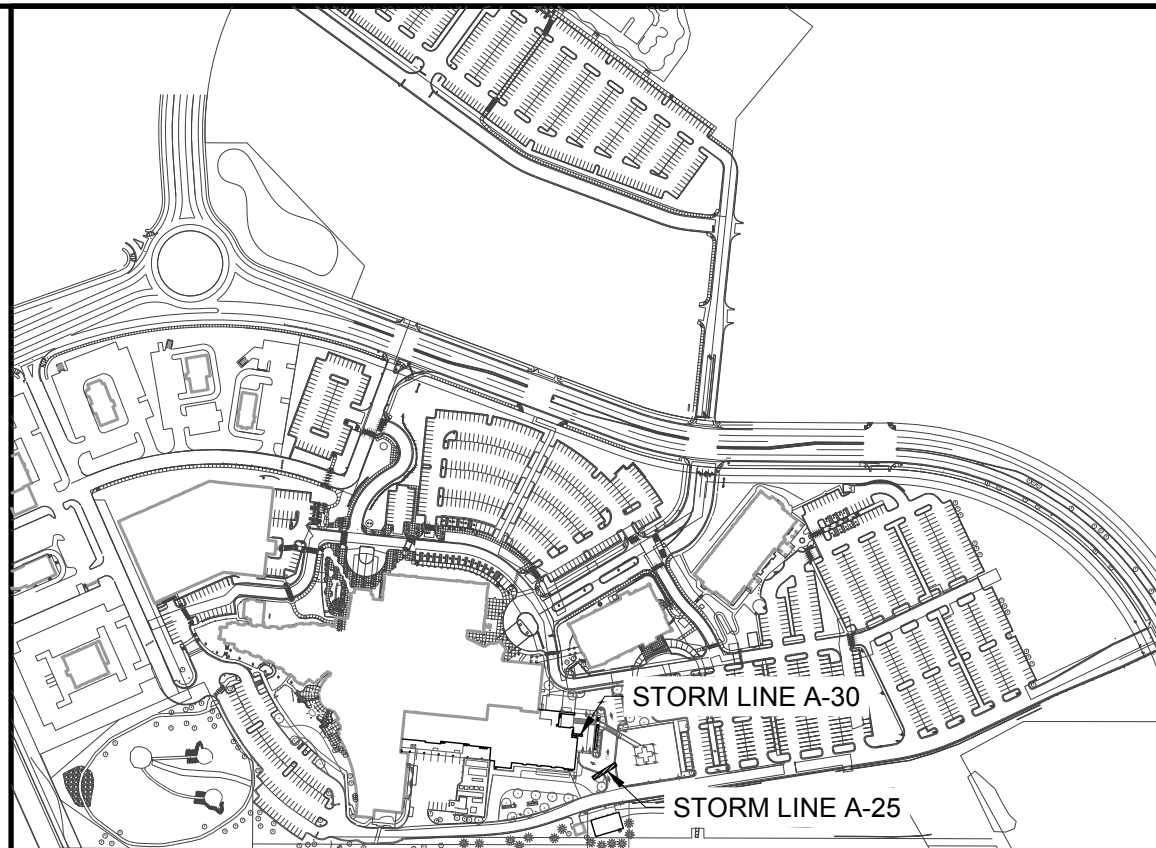
STORM LINE A-30 PROFILE



STORM LINE A-25 PLAN



STORM LINE A-25 PROFILE



- NOTES:
- SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.
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 - SEE SHEETS C351-XXX FOR STORM DETAILS.
- LEGEND:

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2	08/16/2024			

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PARKER, CO 80138**

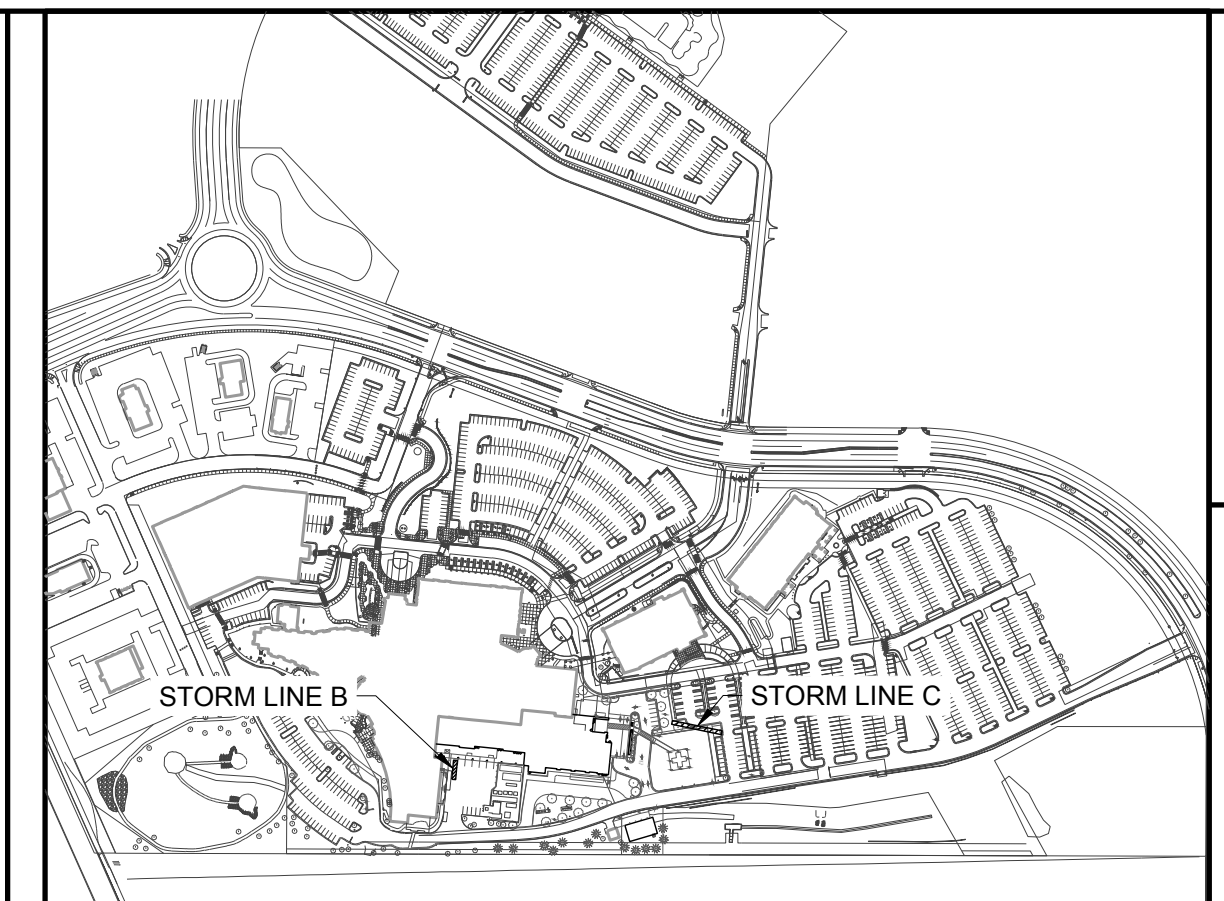
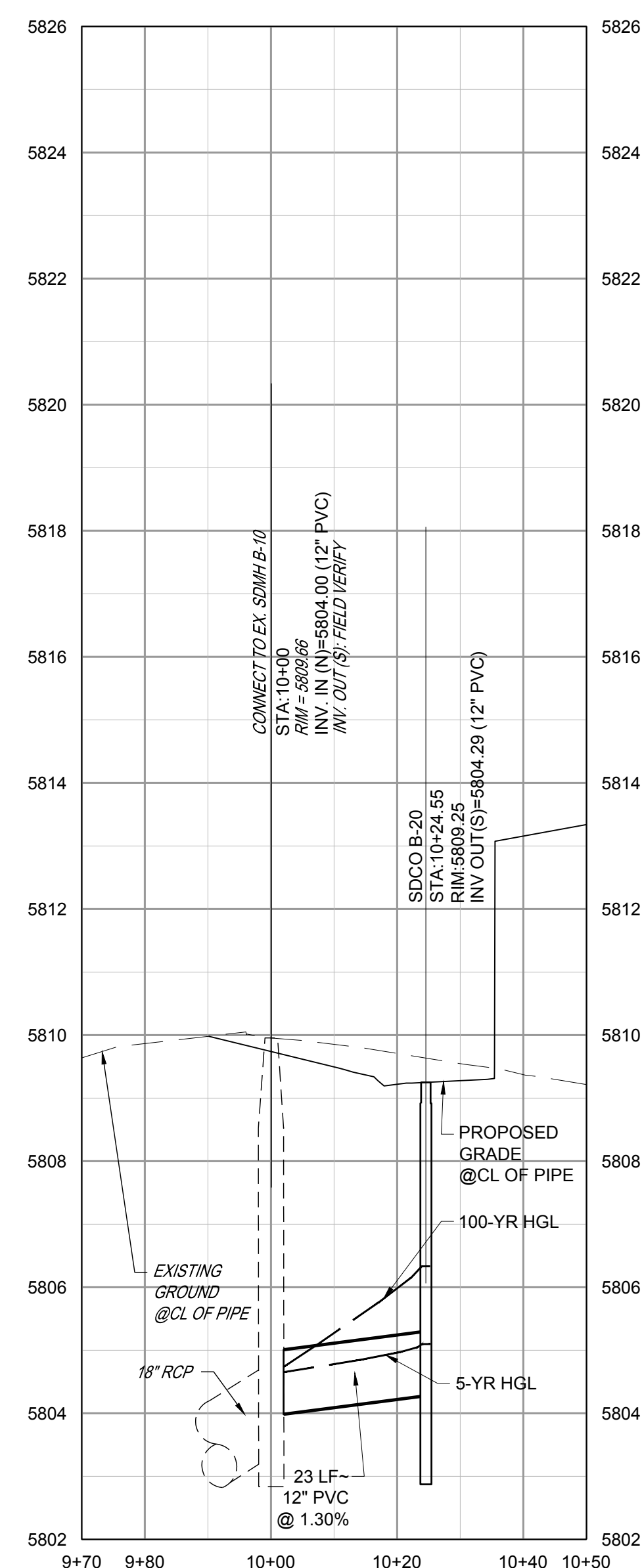
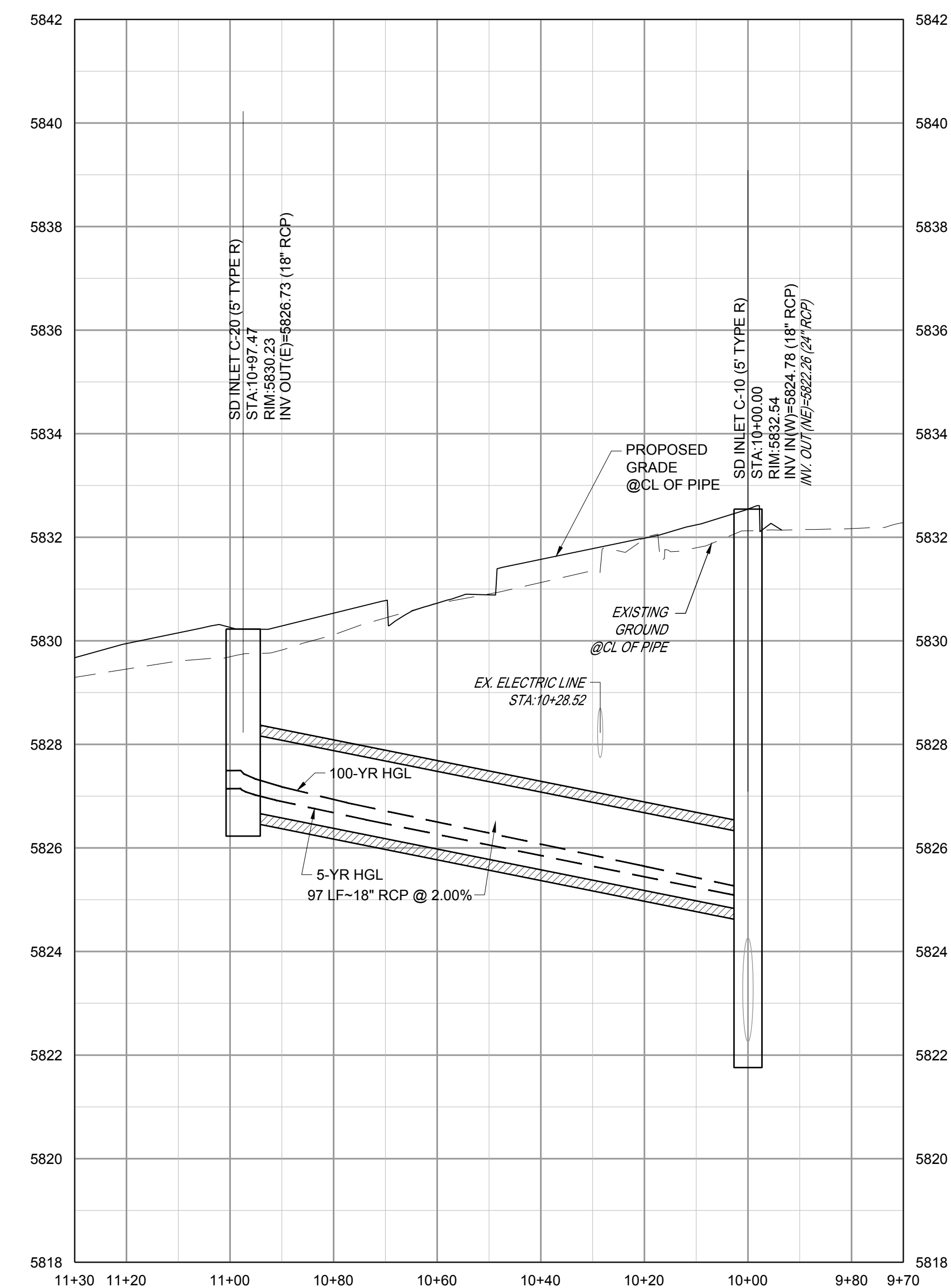
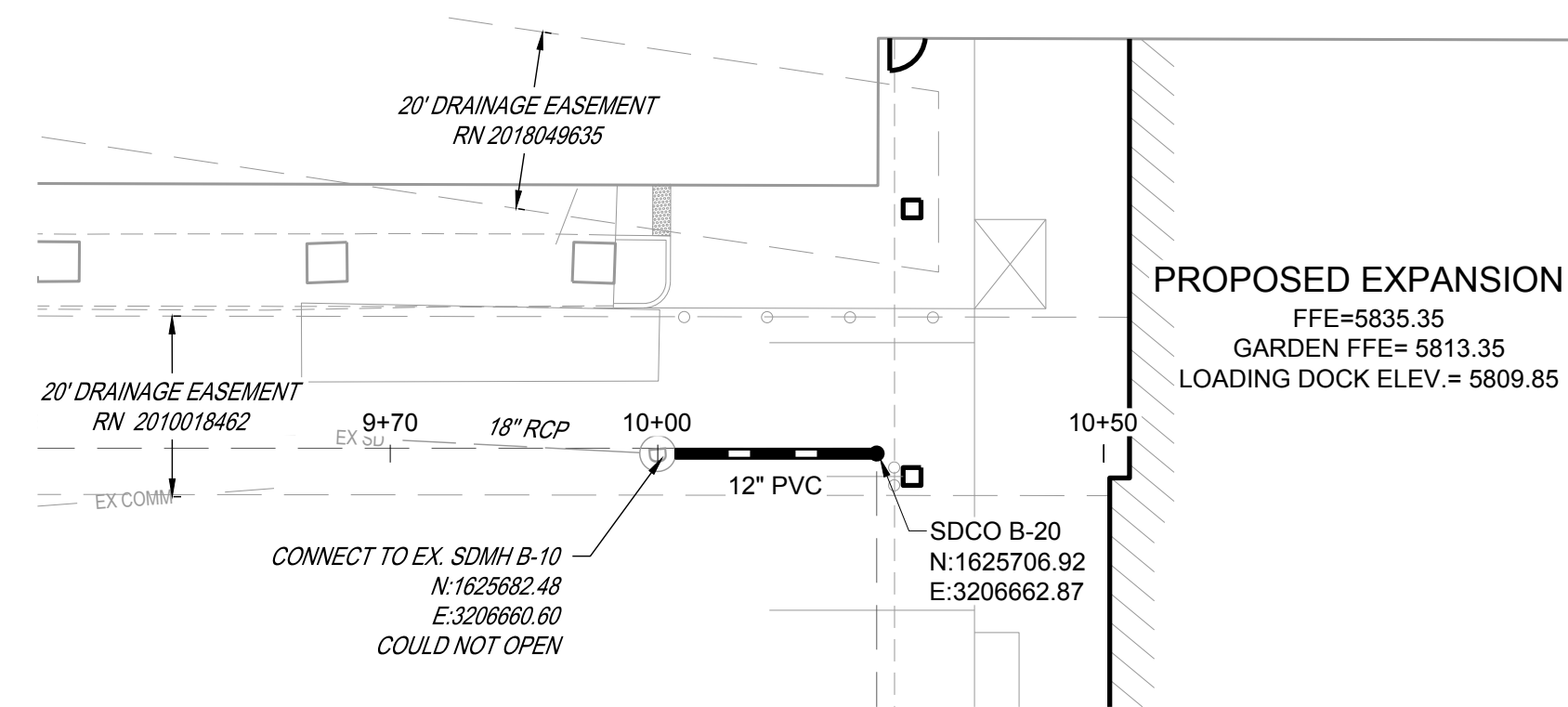
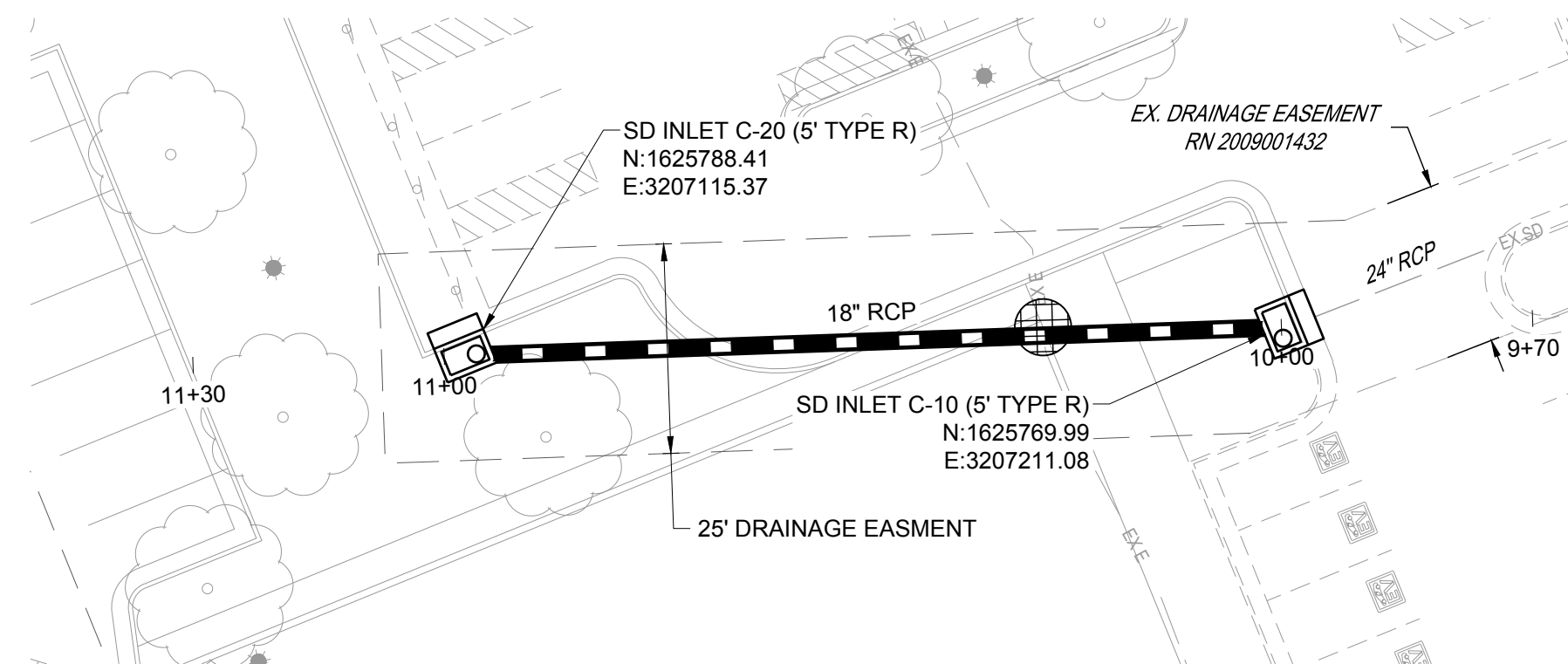
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- NOTES:**
1. SEE SHEET C001 FOR CIVIL NOTES AND LEGEND.
 2. ALL EXISTING DRY UTILITIES ARE ASSUMED TO BE 3' DEEP TO TOP OF PIPE.
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 5. SEE SHEETS C351-XXX FOR STORM DETAILS.

LEGEND:

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NO.	DESCRIPTION	DATE
1	1ST TOWN SUBMITTAL	09/05/2024
2	2ND TOWN SUBMITTAL	09/16/2024

ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138

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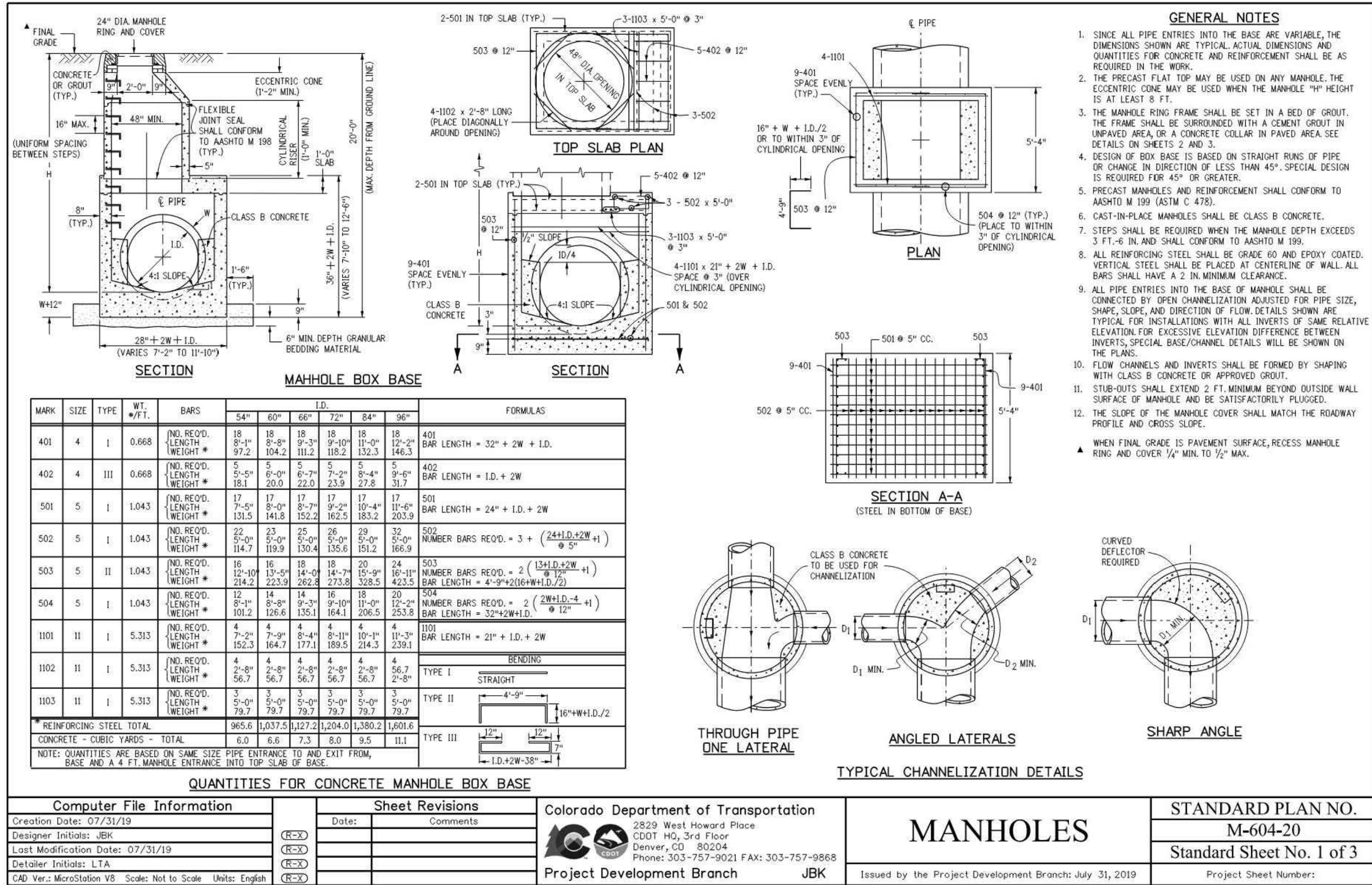
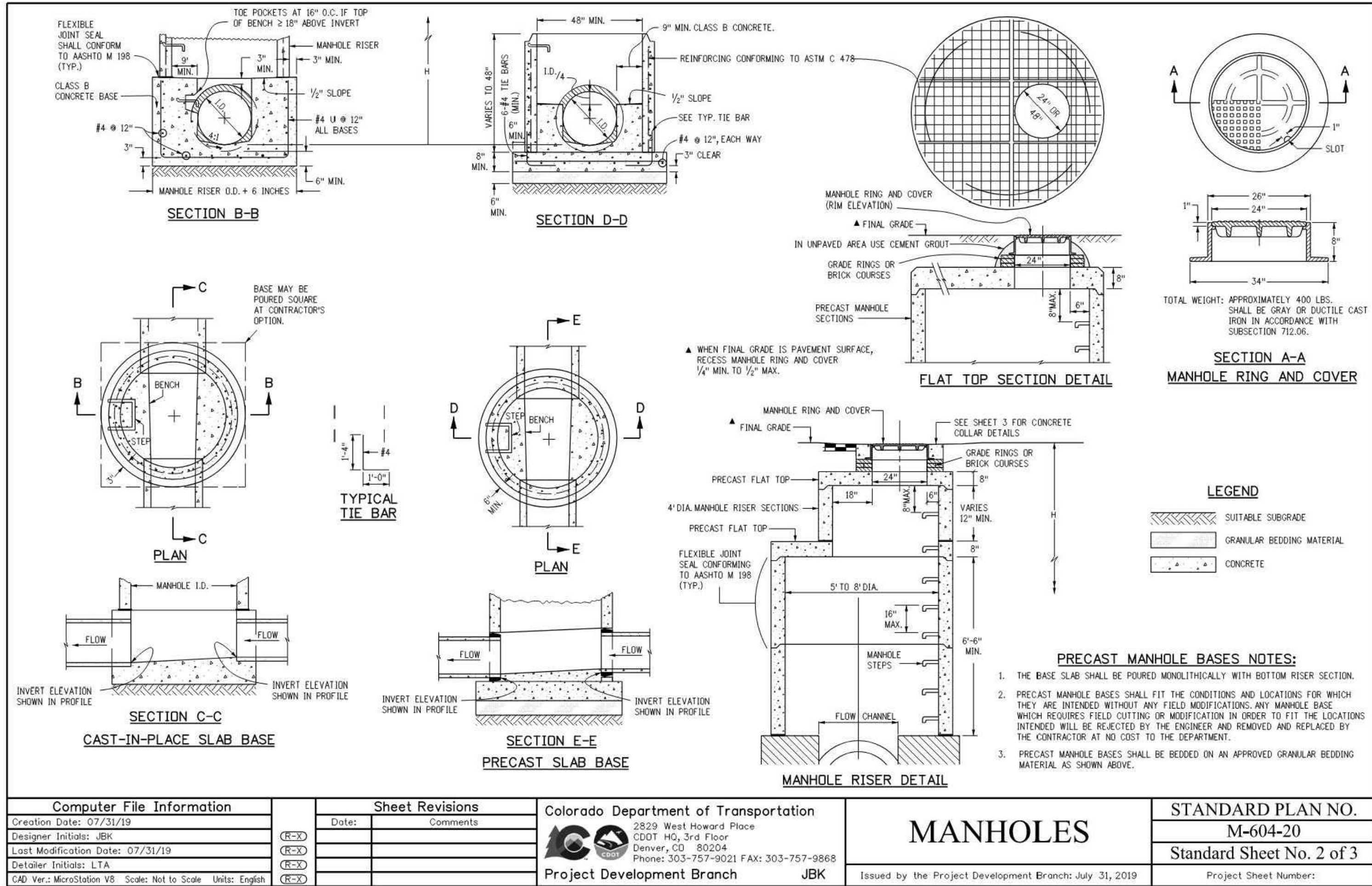
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DATE	DESCRIPTION	NO.
06/03/2024	1ST TOWN SUBMITTAL	1
08/16/2024	2ND TOWN SUBMITTAL	2

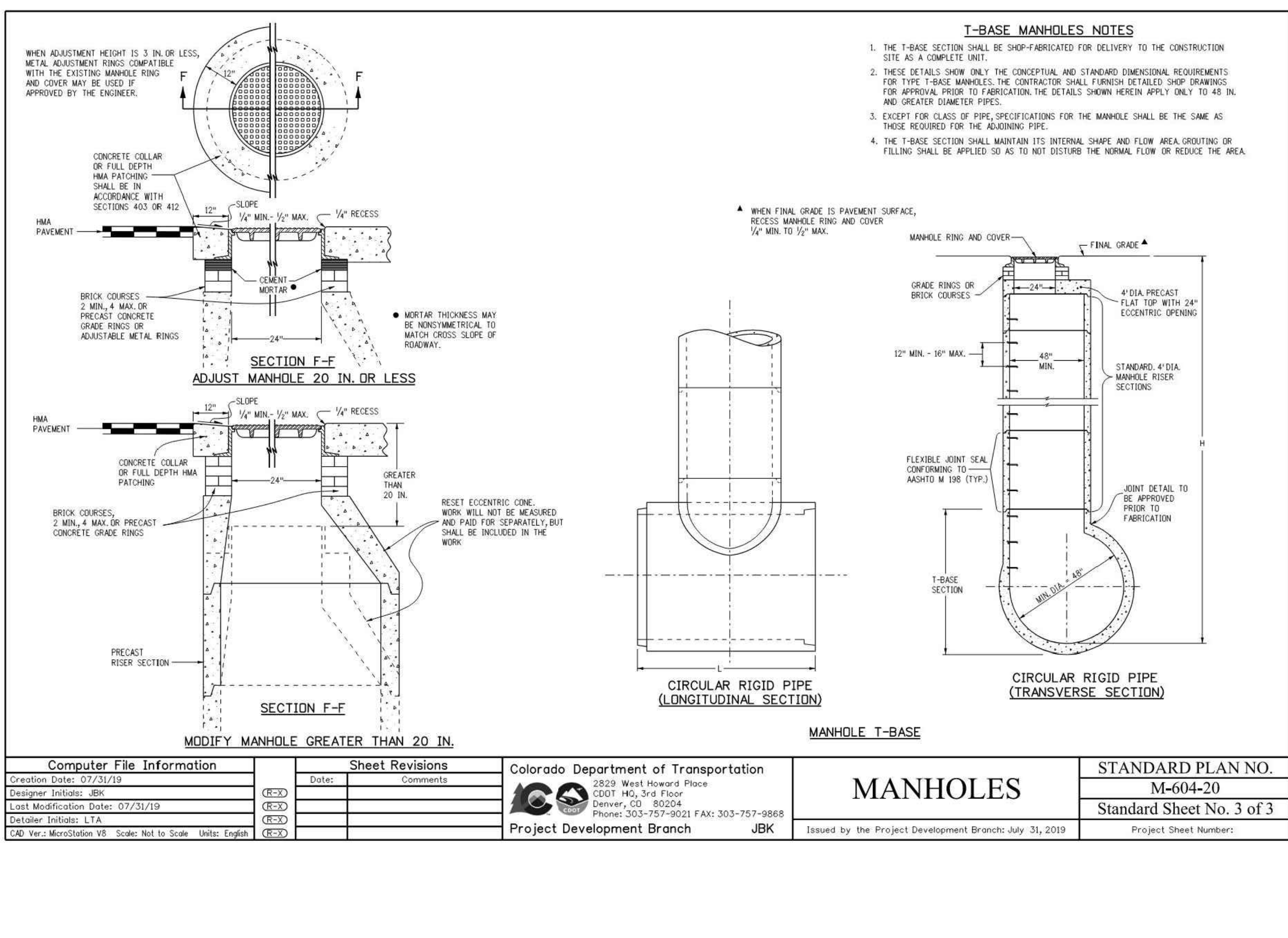
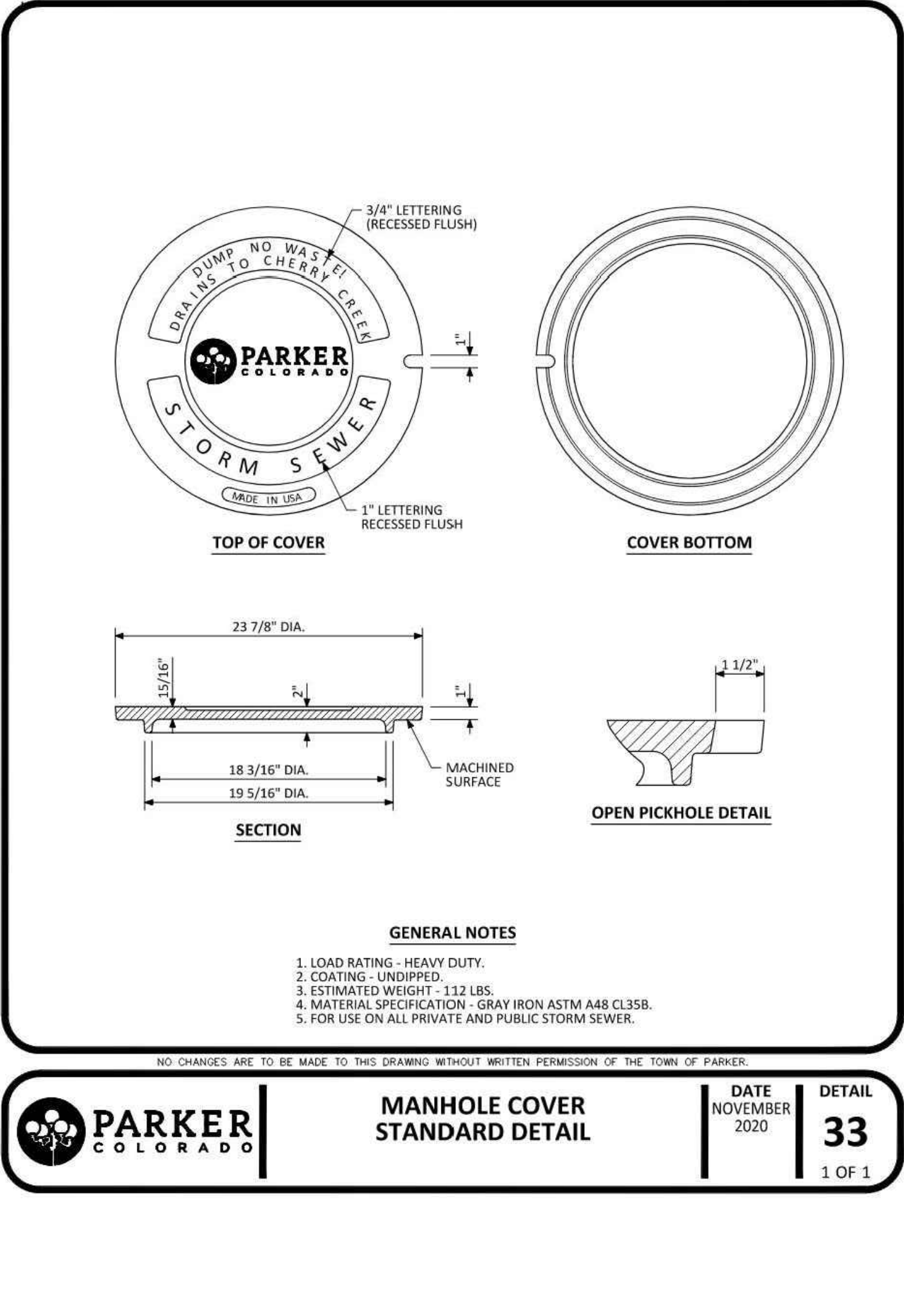
PROJECT: ADVENTHEALTH PARKER EXPANSION
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STORM DETAILS

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Town of Parker, Director of Engineering/Public Works Date

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.		
				NO. REQ'D.	LENGTH		NO. REQ'D.	LENGTH		NO. REQ'D.	LENGTH		NO. REQ'D.	LENGTH		NO. REQ'D.	LENGTH	
401	4	11"	II	15	*		21	*		26	*		11	*		17	*	
402	4	11"	II	7	*		12	*		18	*		3	*		5	*	
403	4	9"	II	*	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	6'-10"		7	6'-10"		7	6'-10"		7	6'-10"		7	6'-10"	
407	4	9"	II	*	5'-10"		*	10'-10"		*	15'-10"		*	5'-10"		*	5'-10"	
408	4	12"	II	3	6'-10"		3	11'-10"		3	16'-0"		3	11'-10"		3	16'-0"	
409	4	8"	II	6	5'-10"		6	10'-10"		6	15'-10"		6	10'-10"		6	15'-10"	
410	4	11"	VII															
411	4	11"	II							3	5'-2"		3	10'-2"				
412	4	11"	II							3	2'-9"		3	2'-9"				
413	4	9"	II							7	10'-10"		7	15'-10"				
501	5	5/8"	IV	11	3'-4"		22	3'-4"		33	3'-4"		22	3'-4"		33	3'-4"	
502	5	5/8"	III										11	11'-5"		17	11'-5"	
503	5	5/8"	II	5	3'-6"		16	3'-6"		27	3'-6"		6	3'-6"		6	3'-6"	
504	5	5/8"	IX										4	8'-10"		5	8'-10"	
601	6	2 1/2"	V	2	8'-10"		2	8'-10"		2	8'-10"		2	8'-10"		2	8'-10"	
SEB.5			I	1	5'-10"		1	10'-10"		1	15'-10"		1	10'-10"		1	15'-10"	
				2 BARS, 5 REQ'D			4 BARS, 5 REQ'D			6 BARS, 5 REQ'D			8 BARS, 5 REQ'D			10 BARS, 5 REQ'D		

* VARIABLE REFER TO TABLE TWO.
 ■ INCLUDE #4, 18 IN. BARS (SEE CHANNEL LAYOUT).

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

H"	LENGTH	NO. REQ'D.		L = 5 FT.	L = 10 FT.	L = 15 FT.
		REGULAR	DROP BOX			
3'-0"	2'-8"	1'-8"		3.2	285	5.3
3'-6"	3'-2"	2'-2"		3.4	305	5.7
4'-0"	3'-8"	2'-8"		3.7	326	6.0
4'-6"	4'-2"	3'-2"		3.9	334	6.4
5'-0"	4'-8"	3'-8"		4.1	354	6.7
5'-6"	5'-2"	4'-2"		4.4	375	7.0
6'-0"	5'-8"	4'-8"		4.6	382	7.2
6'-6"	6'-2"	5'-2"		4.8	402	7.5
7'-0"	6'-8"	5'-8"		5.0	423	7.8
7'-6"	7'-2"	6'-2"		5.3	430	8.0
8'-0"	7'-8"	6'-8"		5.5	451	8.3
8'-6"	8'-2"	7'-2"		5.7	471	8.5
9'-0"	8'-8"	7'-8"		6.0	479	8.7
9'-6"	9'-2"	8'-2"		6.2	488	8.9
10'-0"	9'-8"	8'-8"		6.4	520	9.2
10'-6"	10'-2"	9'-2"		6.7	527	9.4
11'-0"	10'-8"	9'-8"		6.9	547	9.6

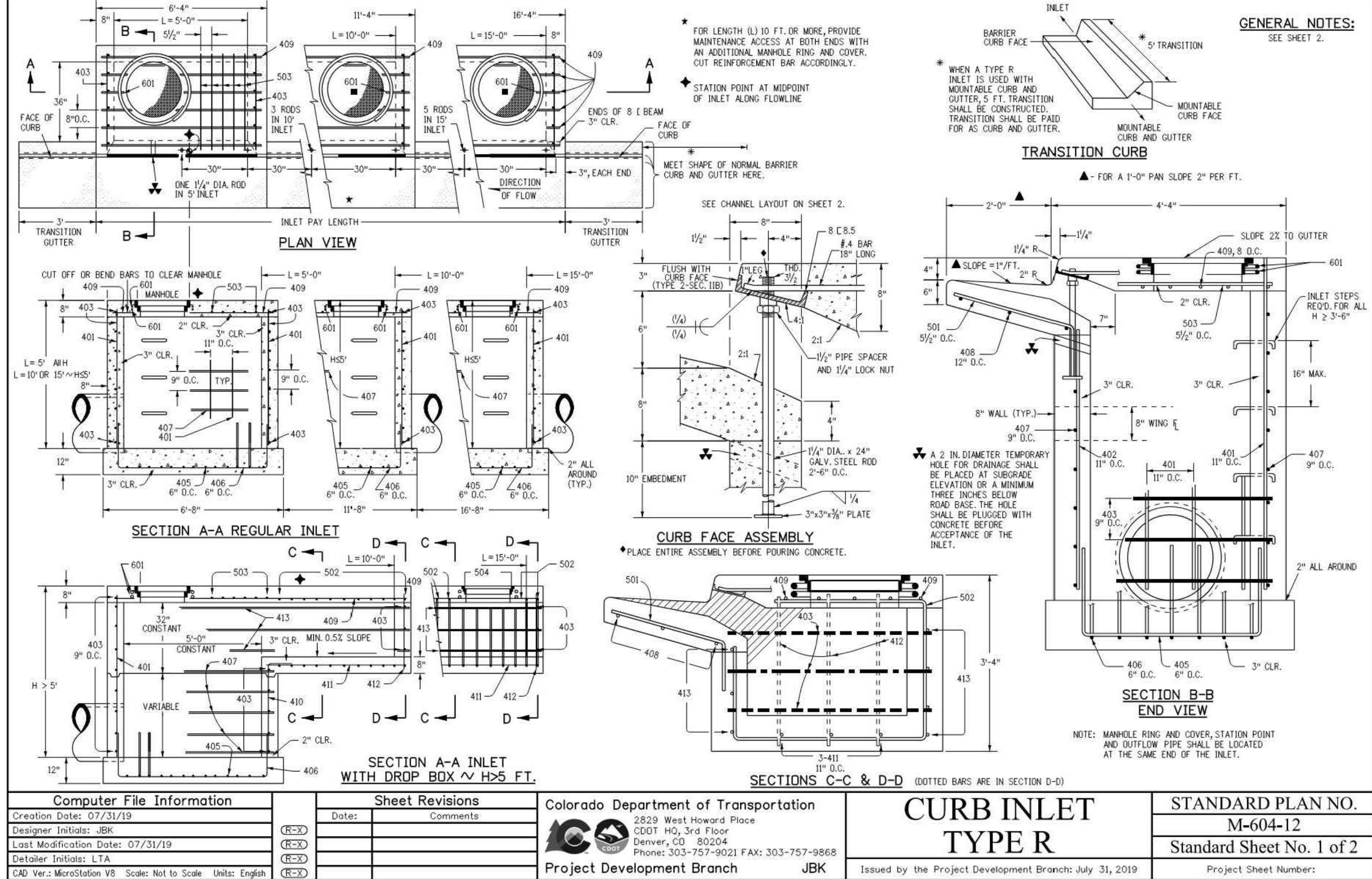
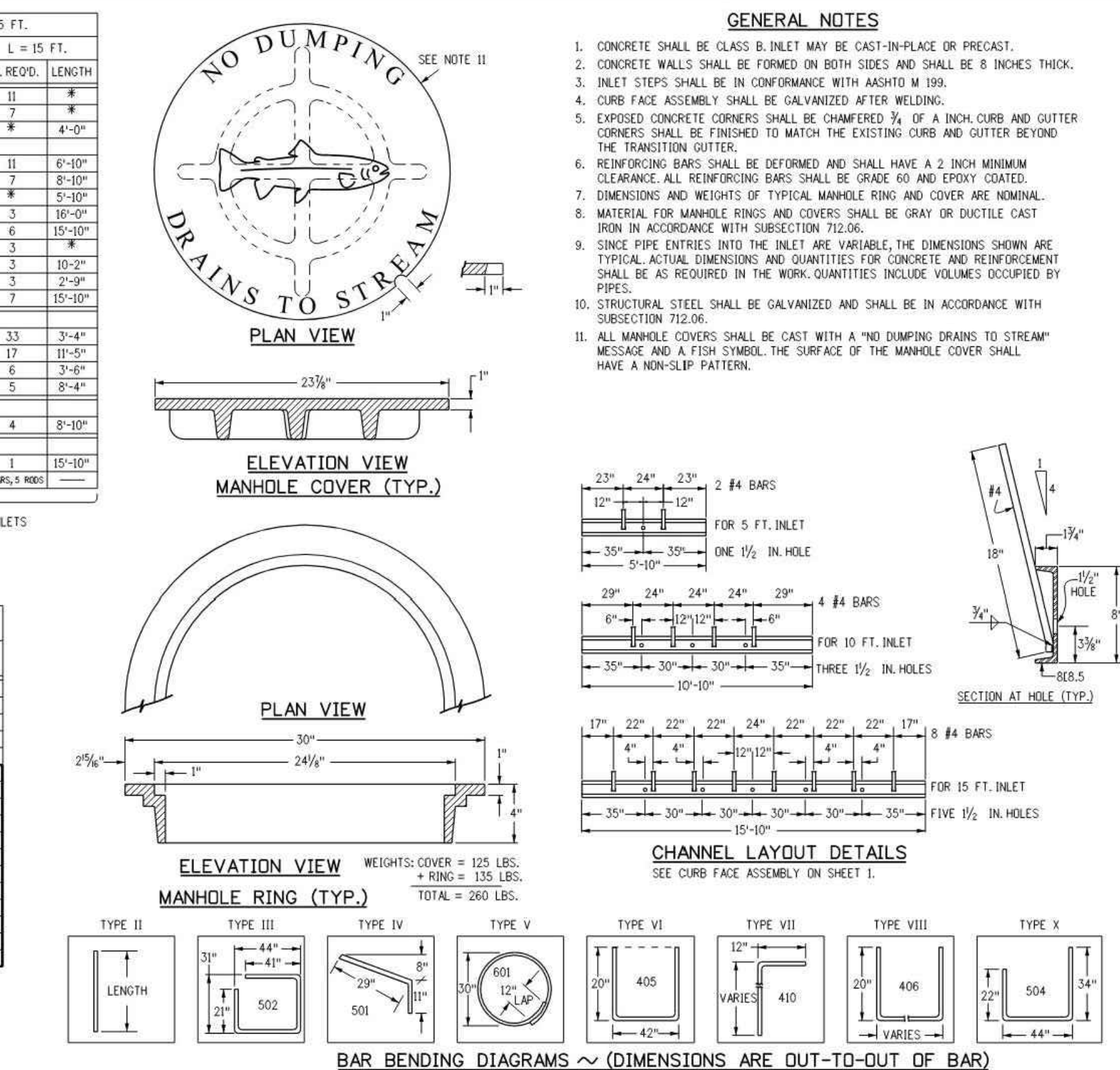
NOTES: FOR L=5 FT., L=10 FT., AND L=15 FT.
 REGULAR INLETS: TOTAL QUANTITIES NEEDED ARE OUTSIDE THE HEAVY BLACK LINE.
 DROP BOX INLETS: TOTAL QUANTITIES NEEDED ARE INSIDE THE HEAVY BLACK LINE.
 STEEL WEIGHTS DO NOT INCLUDE STRUCTURAL STEEL CHANNEL.

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

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

Computer File Information		Sheet Revisions	
Creation Date: 07/31/19		Date:	Comments:
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CAD Ver: MicroStation V8 Scale: Not to Scale Units: English	(R)		

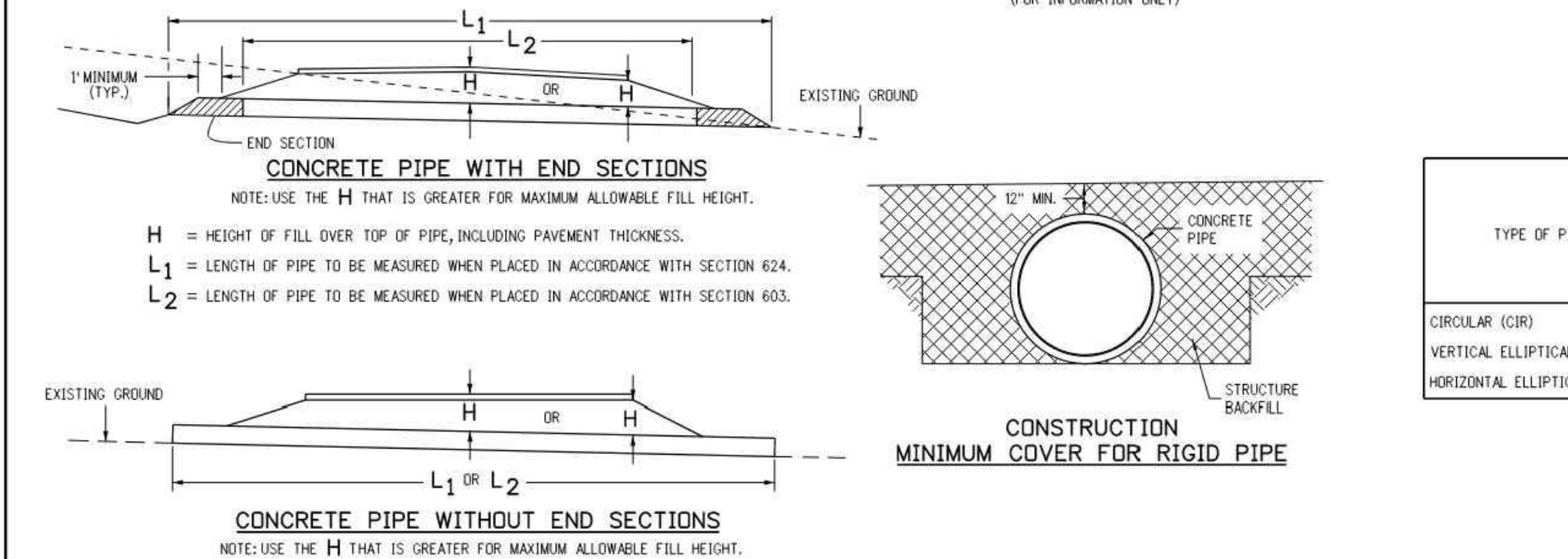
Computer File Information		Sheet Revisions	
Creation Date: 07/31/19		Date:	Comments:
Designer Initials: JBK	(R)		
Last Modification Date: 07/31/19	(R)		
Detailer Initials: LTA	(R)		
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English	(R)		



CIRCULAR (CIR)				VERTICAL ELLIPTICAL (VE)				HORIZONTAL ELLIPTICAL (HE)			
PIPE SIZE - Ba	WALL THICKNESS	0.3 Bc	0.3 OUTSIDE DIA	SPAN	RISE	WALL THICKNESS	0.3 OUTSIDE RISE	SPAN	RISE	WALL THICKNESS	0.3 OUTSIDE RISE
12	2	0.40						23	14	2-3/4	0.49
15	2-1/4	0.49									
18	2-1/2	0.58									
21	2-3/4	0.66						30	19	3-1/4	0.66
24	3	0.75						34	22	3-1/2	0.73
27	3-1/4	0.84						38	24	3-3/4	0.79
30	3-1/2	0.92						45	29	4-1/2	0.95
33	3-3/4	1.01									
36	4	1.10									
42	4-1/2	1.28		29	45	4-1/2	1.35	45	29	4-1/2	1.35
48	5	1.45		34	53	5-1/2	1.78	60	38	5-1/2	1.23
54	5-1/2	1.62		43	68	6	2.00	68	43	6	1.38
60	6	1.80		48	76	6-1/2	2.23	76	48	6-1/2	1.53
66	6-1/2	1.97		53	83	7	2.43	83	53	7	1.68
72	7	2.15		58	91	7-1/2	2.65	91	58	7-1/2	1.83
78	7-1/2	2.32		63	98	8	2.85	98	63	8	1.98
84	8	2.50		68	106	8-1/2	3.08	106	68	8-1/2	2.13
90	8-1/2	2.68		72	113	9	3.28	113	72	9	2.25
96	9	2.85		77	121	9-1/2	3.50	121	77	9-1/2	2.40
102	9-1/2	3.02		82	128	9-3/4	3.69	128	82	9-3/4	2.54
108	10	3.20		87	136	10	3.90	136	87	10	2.68

△ ALSO EQUIVALENT ROUND DIMENSION FOR ELLIPTICAL PIPE.

DIMENSIONS FOR REINFORCED CONCRETE PIPE (FOR INFORMATION ONLY)



TYPE OF PIPE	HEIGHT OF FILL OVER TOP OF PIPE, H (FEET)					
	CLASS CIR II	CLASS CIR III	CLASS CIR IV	CLASS CIR V	CLASS CIR VI	CLASS CIR VII
CIRCULAR (CIR)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62	± 62 TO 80
VERTICAL ELLIPTICAL (VE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62	± 62 TO 80
HORIZONTAL ELLIPTICAL (HE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62	± 62 TO 80

ALLOWABLE RANGE OF HEIGHTS FOR FILL OVER REINFORCED CONCRETE PIPE (ALL SIZES)

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

Computer File Information		Sheet Revisions	
Creation Date: 07/31/19		Date:	Comments:
Designer Initials: JBK	(R)		
Last Modification Date: 07/31/19	(R)		
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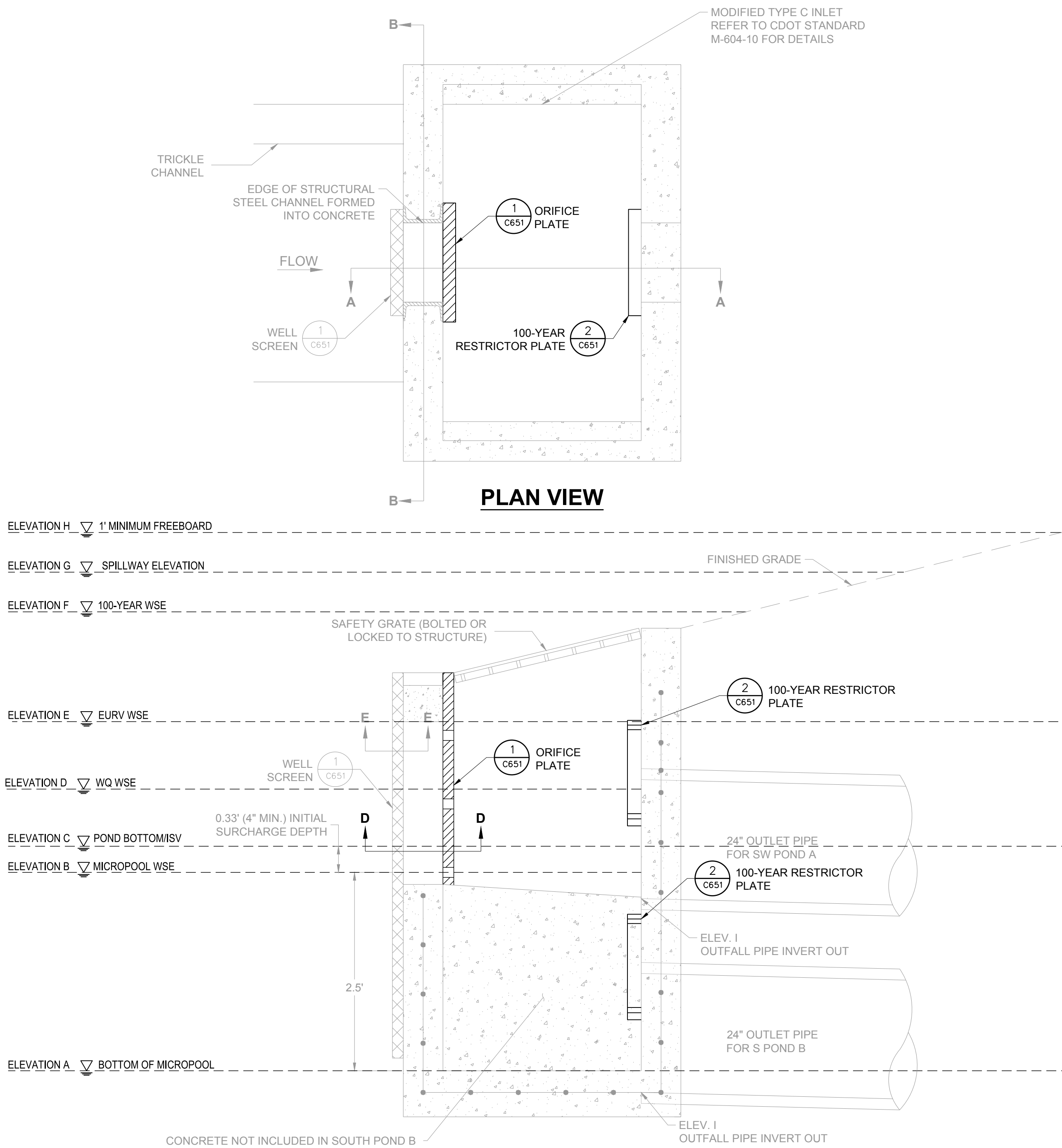
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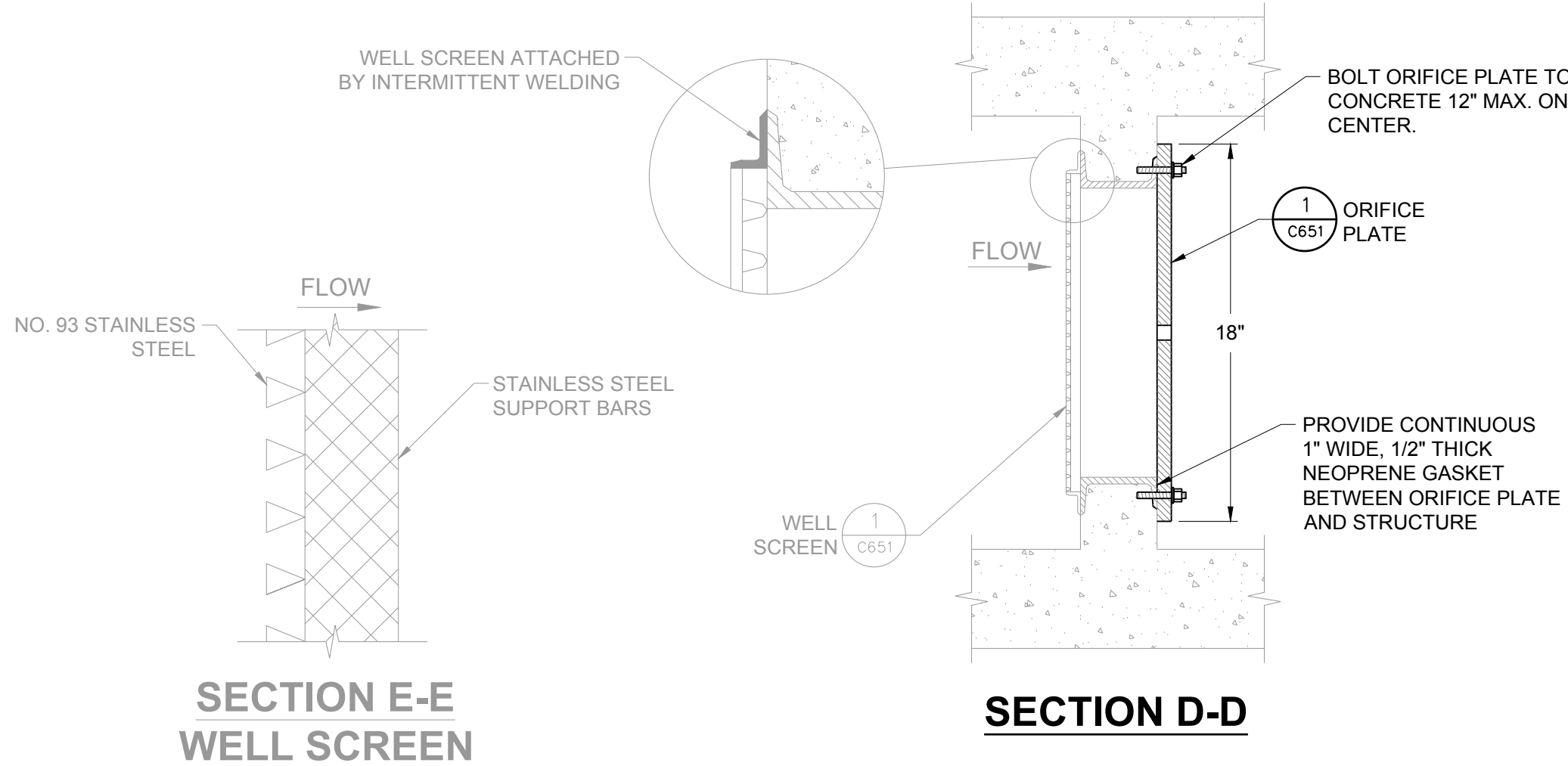
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Creation Date: 07/31/19		Date:	Comments:
Designer Initials: JBK	(R)		
Last Modification Date: 07/31/19	(R)		
Detailer Initials: LTA	(R)		

	SW POND A	S POND B
ELEV. A (BOTTOM OF MICROPOOL)	5791.29	5812.50
ELEV. B (MICROPOOL WATER SURFACE ELEVATION)	5793.79	5815.00
ELEV. C (POND BOTTOM/INITIAL SURCHARGE WATER SURFACE ELEVATION)	5794.12	5815.33
ELEV. D (WATER QUALITY WATER SURFACE ELEVATION)	5795.46	5817.71
ELEV. E (EURV WATER SURFACE ELEVATION)	5797.02	5819.07
ELEV. F (100-YR WATER SURFACE ELEVATION)	5798.04	5820.04
ELEV. G (SPILLWAY ELEVATION)	5799.58	5821.20
ELEV. H (FREEBOARD)	5800.97	5824.00
ELEV. I (OUTFALL PIPE INVERT OUT)	5793.69	5812.26
Y _o	22"	18"
Y _i	6"	10"

OUTLET STRUCTURE
TABLE

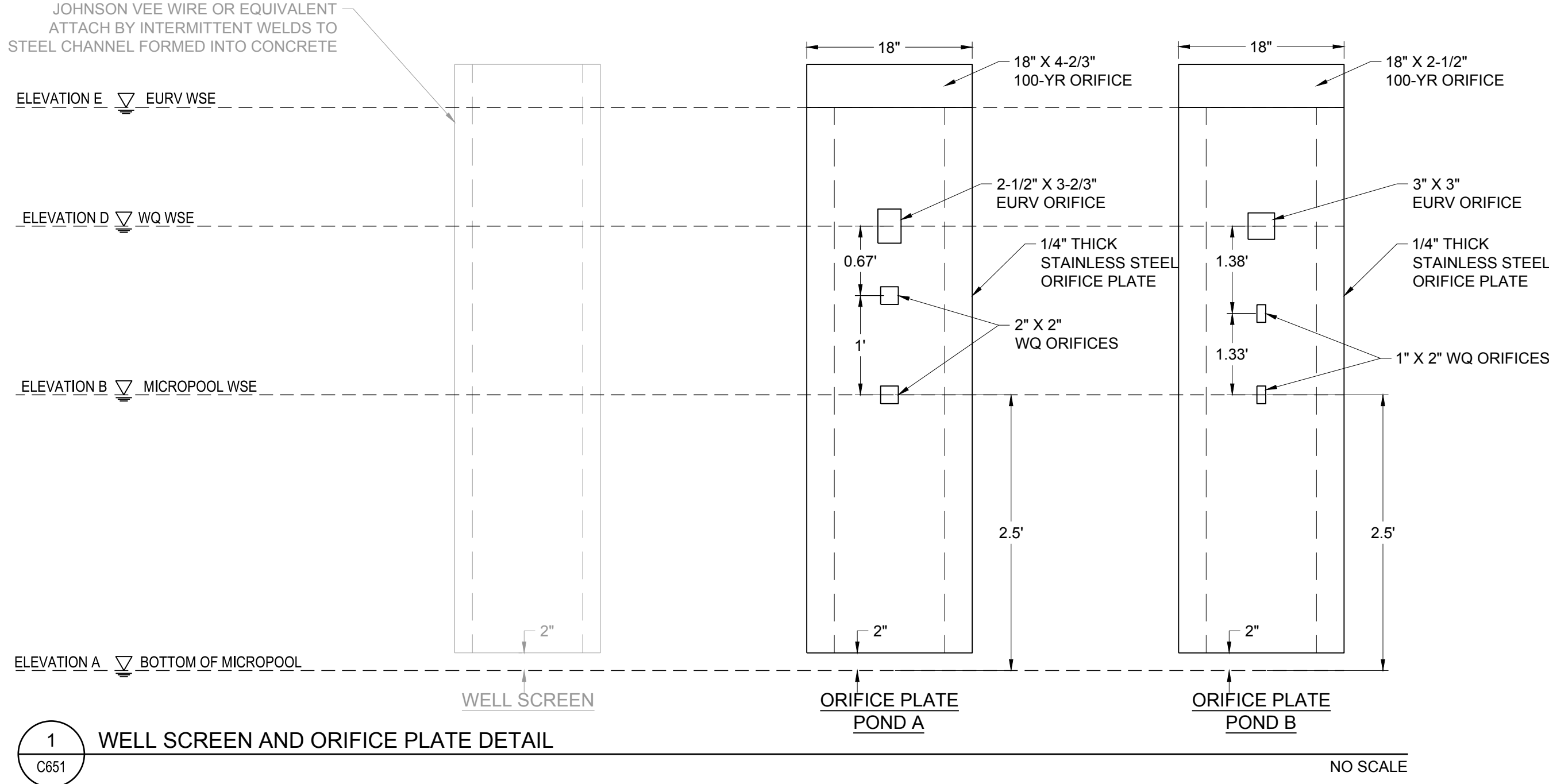


SECTION A-A

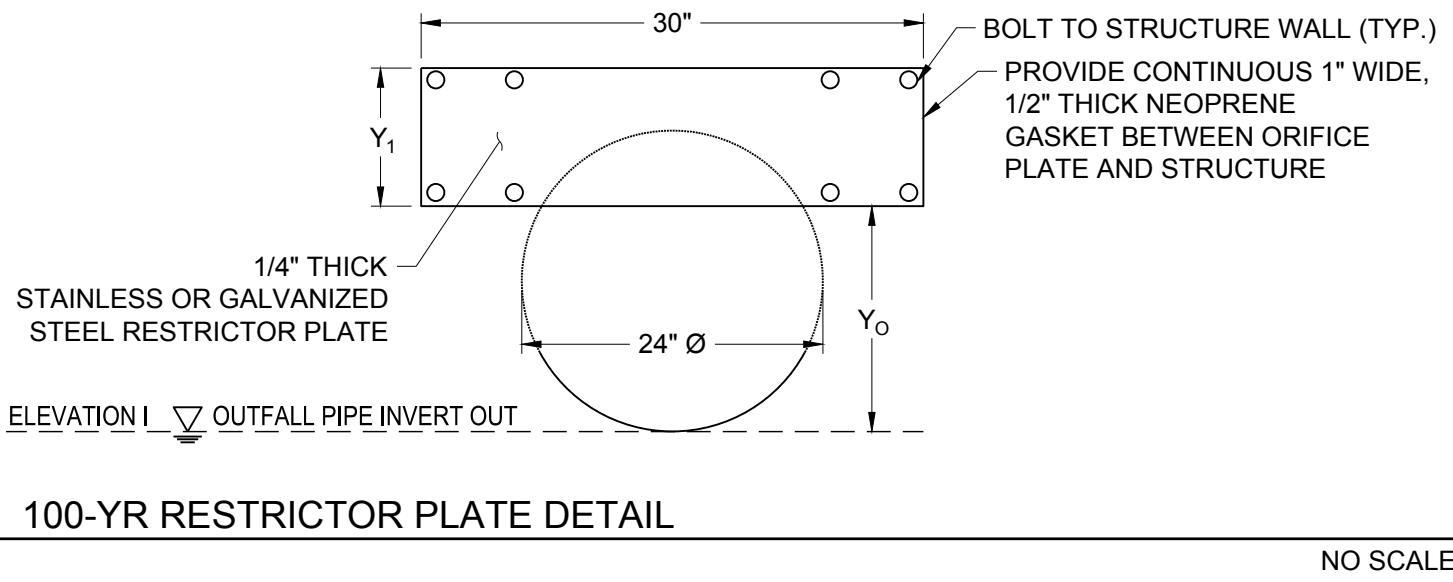


SECTION E-E
WELL SCREEN

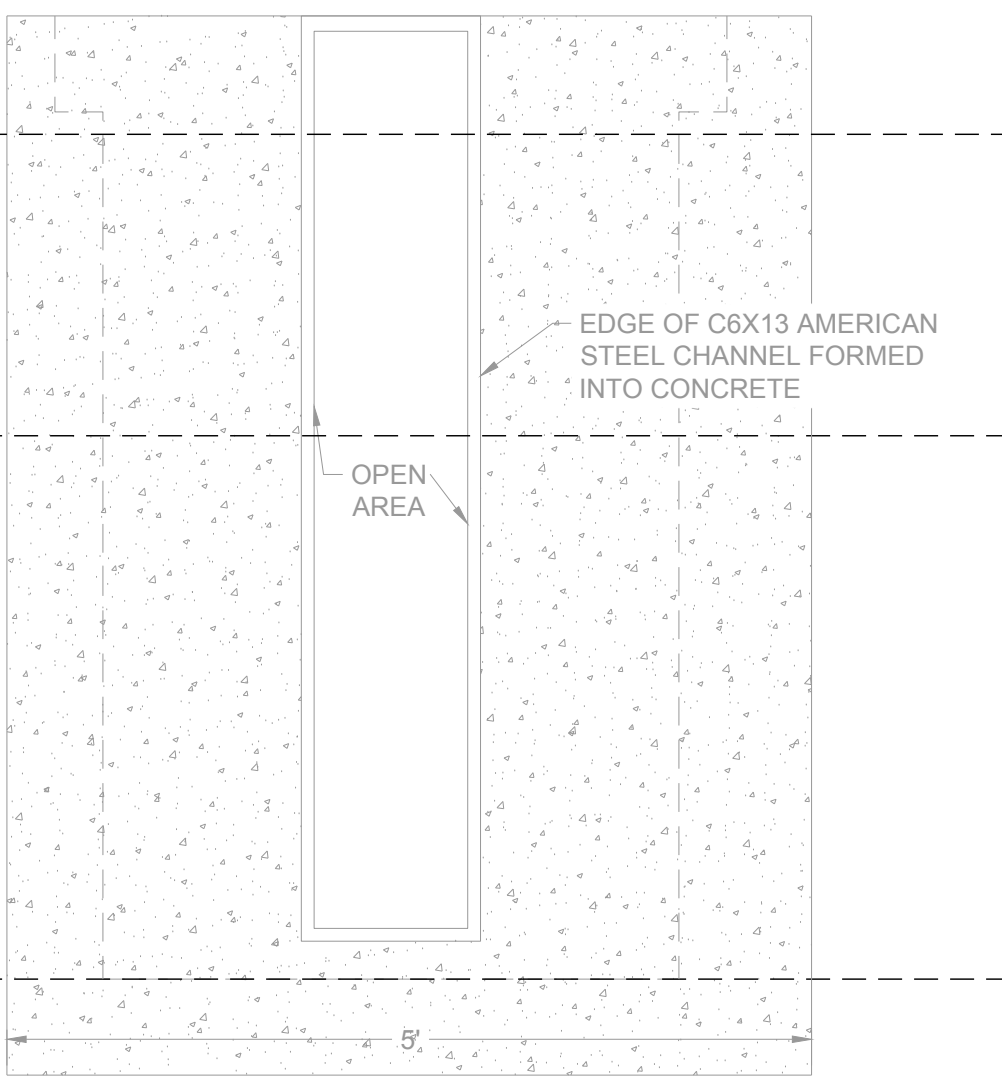
SECTION D-D



WELL SCREEN AND ORIFICE PLATE DETAIL



100-YR RESTRICTOR PLATE DETAIL



SECTION B-B
MID-WALL

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Town of Parker, Director of Engineering/Public Works Date

DATE	DESCRIPTION	NO.	PROJECT	DRAWING TITLE:	FILE PATH:
06/03/2024	1ST TOWN SUBMITTAL	1	ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	STORM DETAILS	C:\Users\leda\Documents\A. Miro, Inc.\CivilJobs\23079 AHP Expansion\05 CAD\Plans and Details\C351-STRM-DTLS.dwg C353 - 8/16/2024
08/16/2024	2ND TOWN SUBMITTAL	2			

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DESIGNED BY: RJH
DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079

DRAWING NUMBER:
C353



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Denver, CO 80237
303-741-3737
www.samiro.com



LEGEND:

- | | |
|--|---|
| | PROPOSED 6' CATCH CURB AND GUTTER
RE: DTL 2-/A/C451 |
| | PROPOSED 6' SPILL CURB AND GUTTER
RE: DTL 2-/B/C451 |
| | PROPOSED MOUNTABLE CURB AND GUTTER
RE: DTL 2-/D/C451 |
| | PROPOSED FLUSH CURB AND GUTTER
RE: DTL 2-/C/C451 |
| | PROPOSED PATCHBACK
RE: DTL 2/C452 |
| | PROPOSED CURB TRANSITION |
| | PROPOSED 4' COMPOSITE ASPHALT
OVER 8' BASE COURSE
RE: DTL 1-/A/C451 |
| | PROPOSED 6' CONCRETE PAVEMENT
RE: DTL 1-/B/C451 |
| | PROPOSED 7' CONCRETE REINFORCED W/ REBAR
RE: DTL 1-/C/C451 |
| | PROPOSED 6' CONCRETE WELDED WIRE REINFORCED
RE: DTL 1-/D/C451 |

SEE SHEET C412

EXISTING PARKER
ADVENTIST
HOSPITAL

**ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

PAVING PLAN

FILE PATH: C:\Users\leds\DCI\ACCDocs\S. A. Miro, Inc-\Civil\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C411-PAVING-PLAN.dwg C411 - 8/16/2024

PROJECT:

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APPROVALS. CONSTRUCTION
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DESIGNED BY:	RJH
DRAWN BY:	EDS
CHECKED BY:	MHV
MIRO JOB NO.	23079

DRAWING NUMBER:

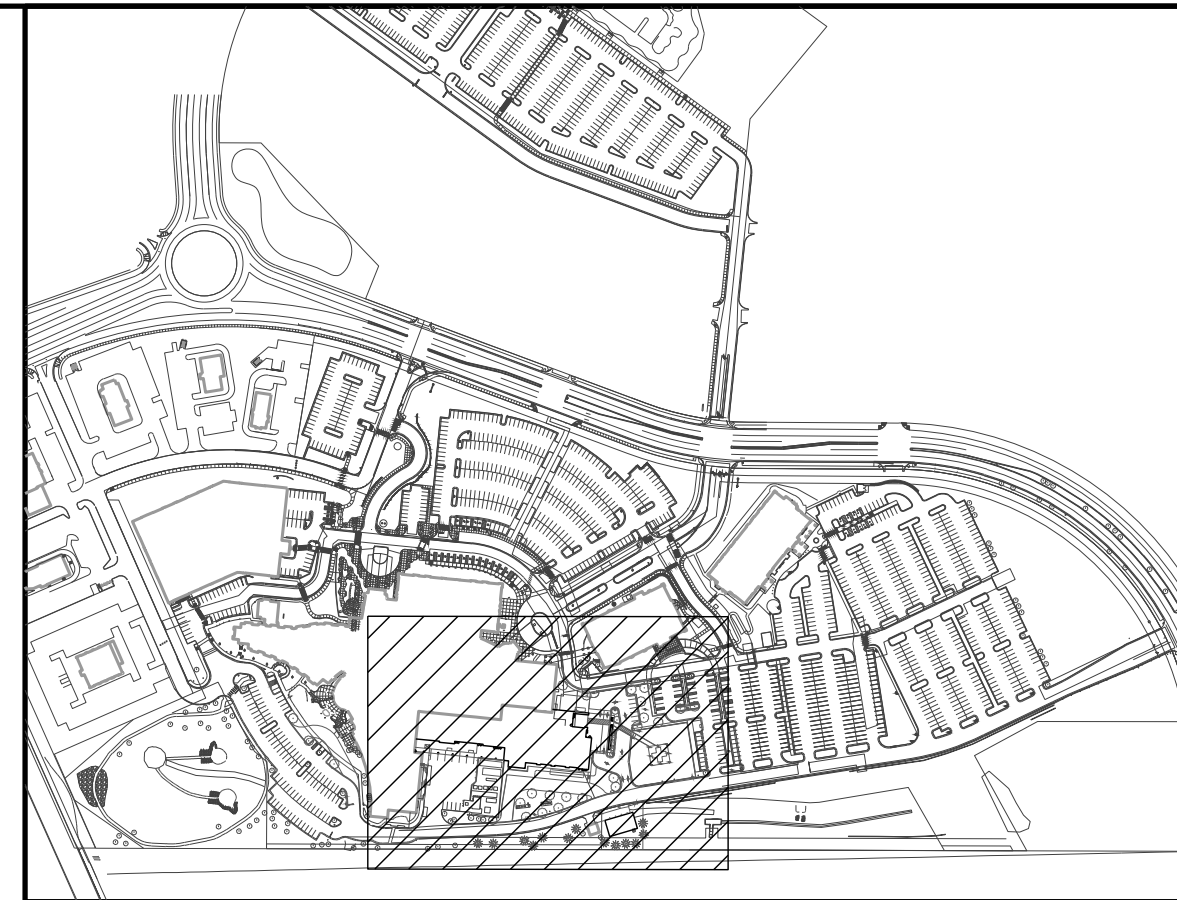
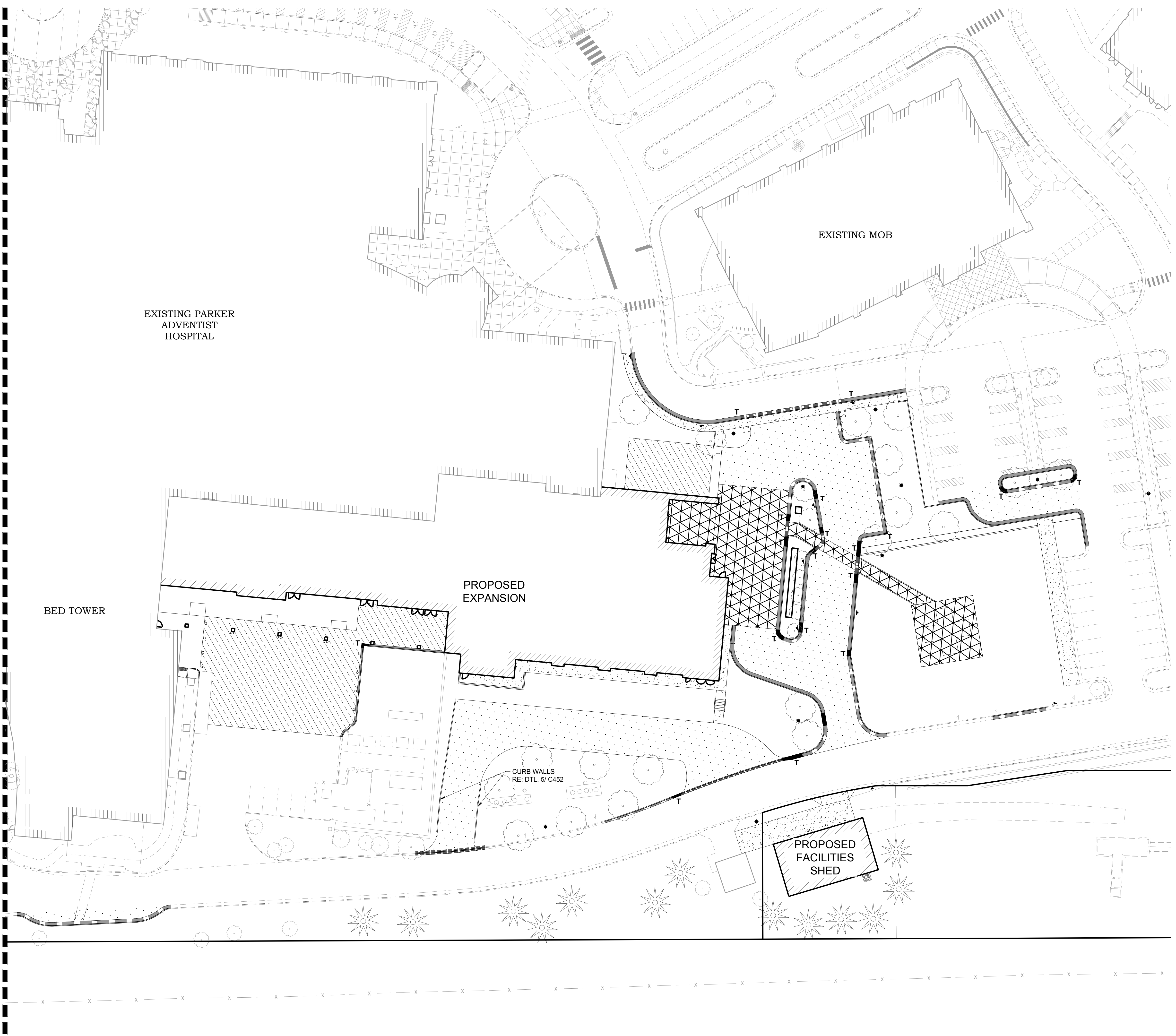
C411

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 THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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Town of Parker, Director of Engineering/Public Works _____ Date _____

SEE SHEET C411



KEYMAP
NTS

30 0 30
SCALE: 1" = 30'

LEGEND:

- PROPOSED 6" CATCH CURB AND GUTTER
RE: DTL. 2-A/ C451
- PROPOSED 6" SPILL CURB AND GUTTER
RE: DTL. 2-B/ C451
- PROPOSED MOUNTABLE CURB AND GUTTER
RE: DTL. 2-D/ C451
- PROPOSED FLUSH CURB AND GUTTER
RE: DTL. 2-C/ C451
- PROPOSED PATCHBACK
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- PROPOSED CURB TRANSITION
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OVER 8" BASE COURSE
RE: DTL. 1-A/ C451
- PROPOSED 6" CONCRETE PAVEMENT
RE: DTL. 1-B/ C451
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RE: DTL. 1-C/ C451
- PROPOSED 8" CONCRETE WELDED WIRE REINFORCED
RE: DTL. 1-D/ C451

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH 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 THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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DATE	DESCRIPTION	NO.
06/03/2024	1ST TOWN SUBMITTAL	1
08/16/2024	2ND TOWN SUBMITTAL	2

PROJECT: ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

DRAWING TITLE: PAVING PLAN

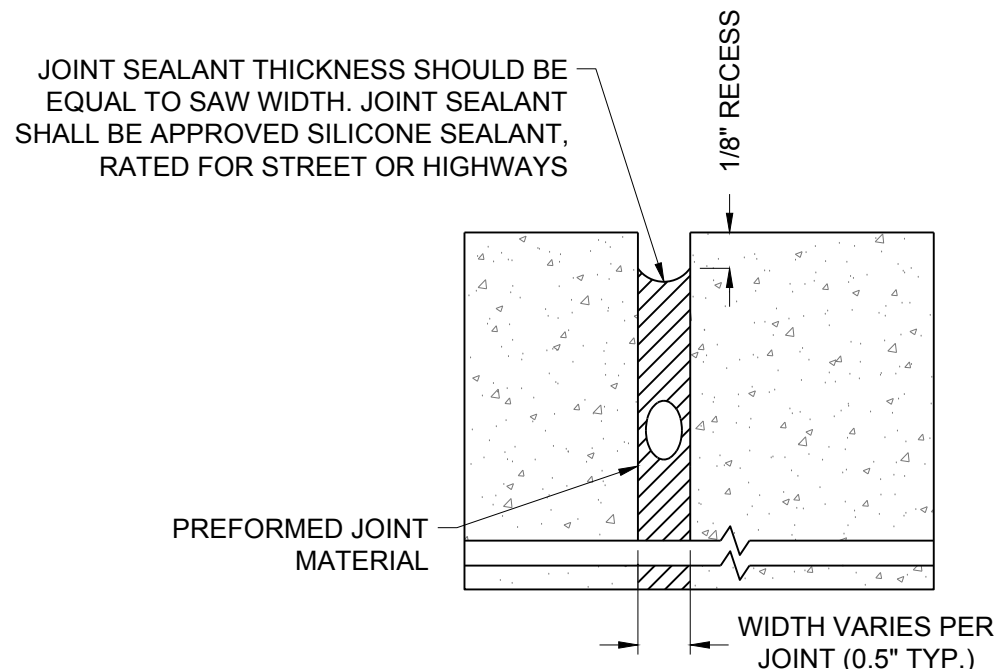
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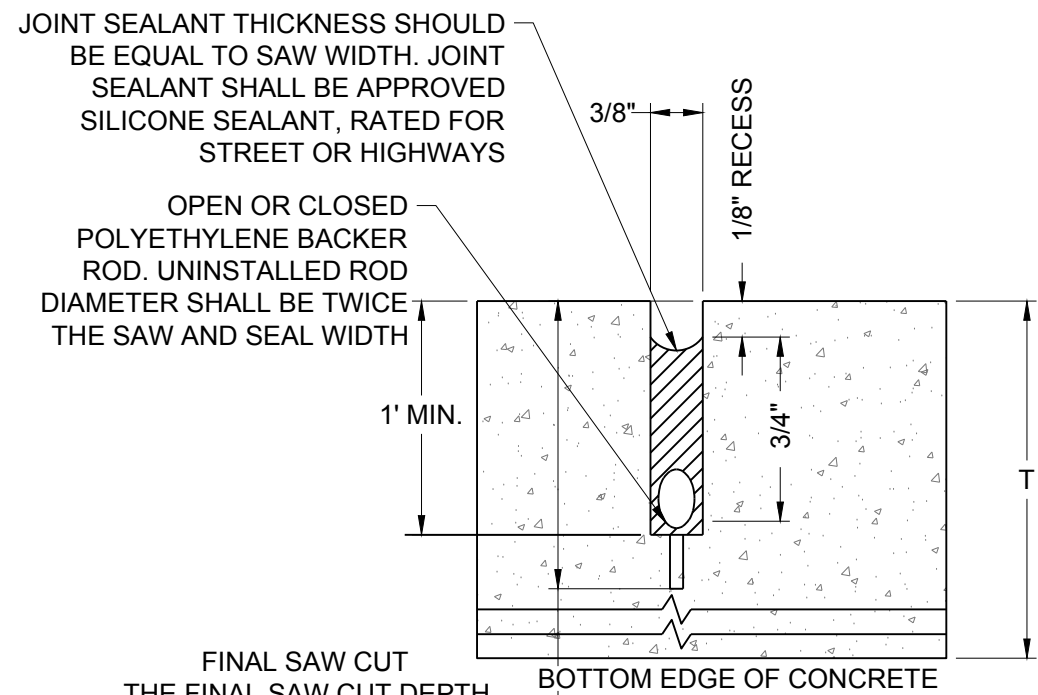
DESIGNED BY:	RJH
DRAWN BY:	EDS
CHECKED BY:	MHV
MIRO JOB NO.	23079

DRAWING NUMBER:
C412

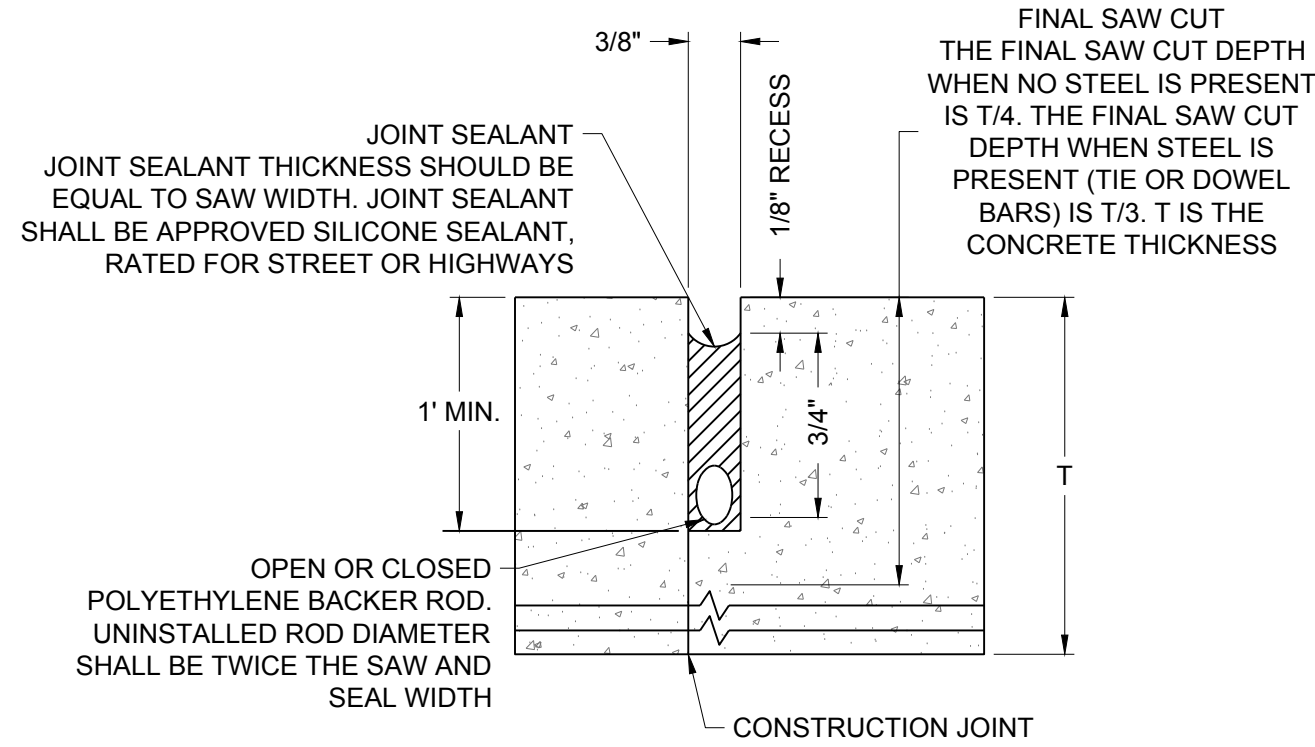
Town of Parker, Director of Engineering/Public Works _____ Date _____



D EXPANSION JOINT SEALANT
NO SCALE

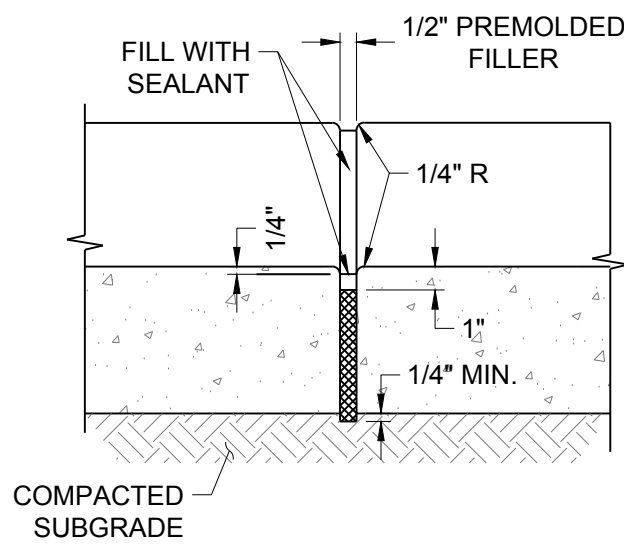


D SAW CUT JOINT SEALANT
NO SCALE



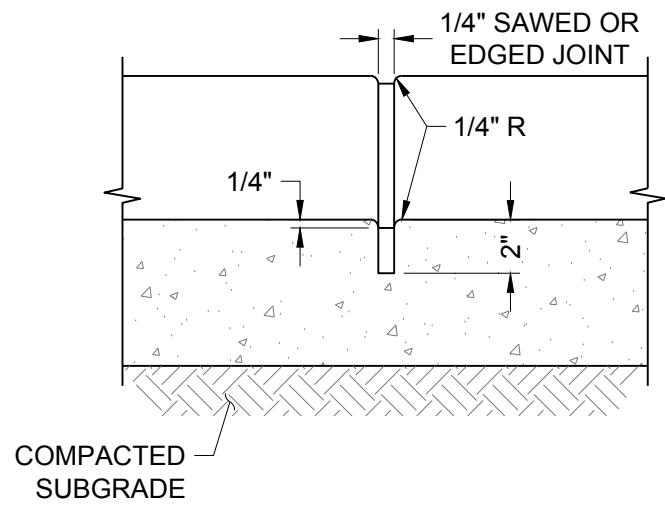
E CONSTRUCTION JOINT SEALANT
NO SCALE

3 JOINTS & SEALANTS
NO SCALE



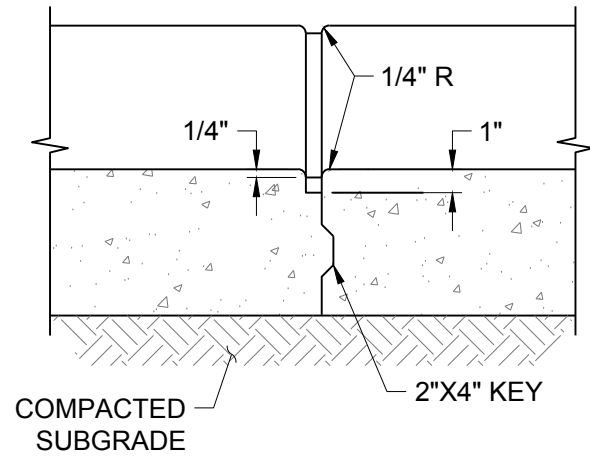
NOTE: INSTALL AT: POINTS OF CURVES WITH RADII <100'; AT ALL ENDS OF RETURNS; WHERE CURBS ABUT INLETS AND OTHER STRUCTURES. MAX SPACING IS 50' APART.

A EXPANSION JOINT
NO SCALE



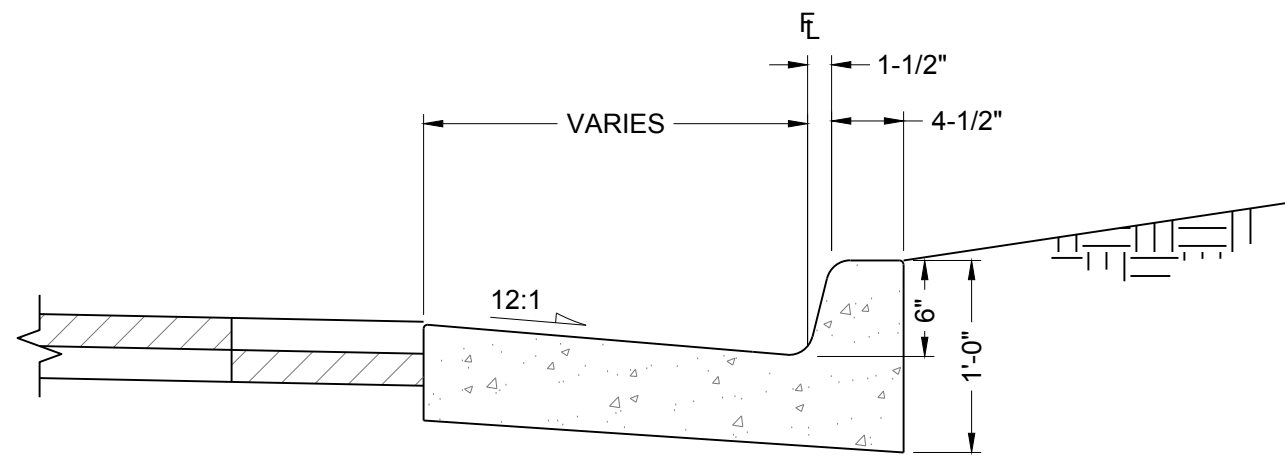
NOTE: MINIMUM SPACING IS 10' APART.

B CONTRACTION JOINT
NO SCALE

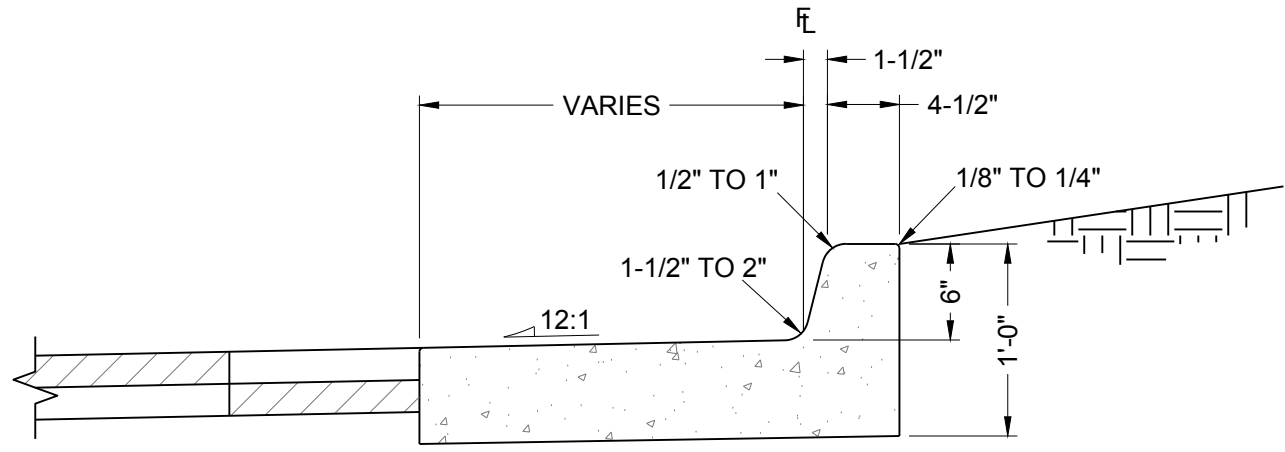


NOTE: INSTALL AT EDGES OF NEW PAVEMENT AT END OF WORK DAY.

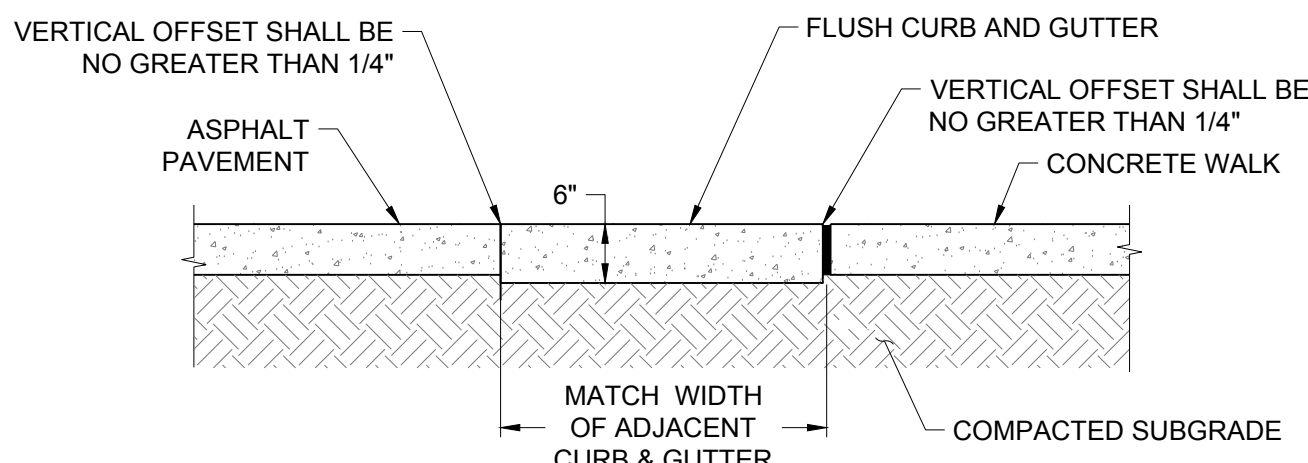
C CONSTRUCTION JOINT
NO SCALE



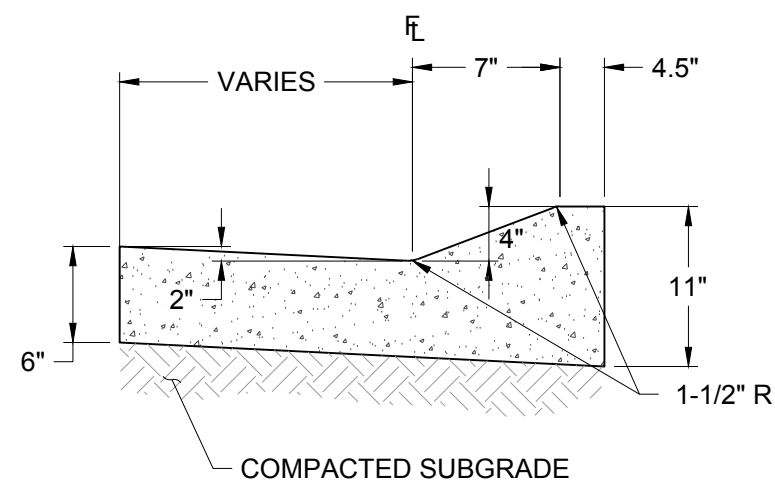
A CATCH CURB
NO SCALE



B SPILL CURB
NO SCALE

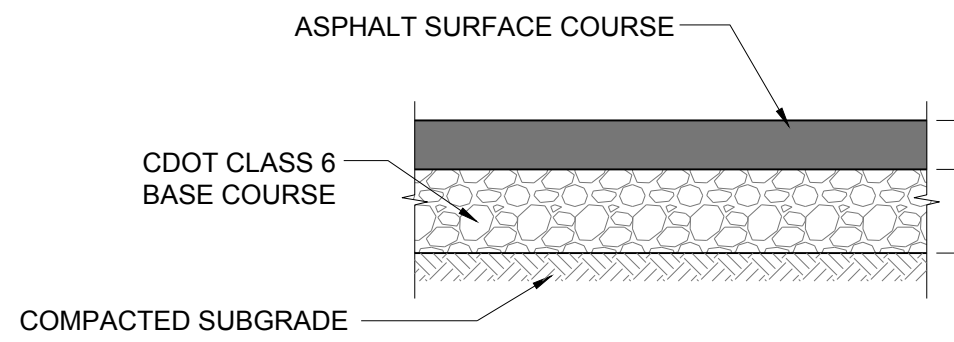


C FLUSH CURB
NO SCALE

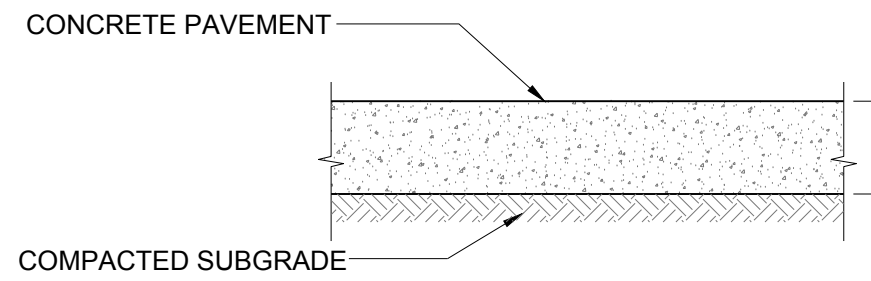


D MOUNTABLE CURB
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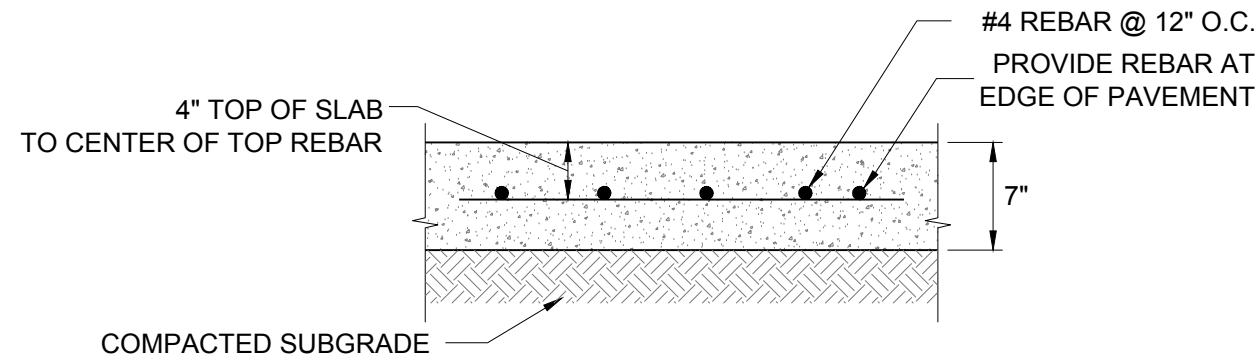
2 CURBS & GUTTERS
NO SCALE



A ASPHALT PAVEMENT SECTION
NO SCALE

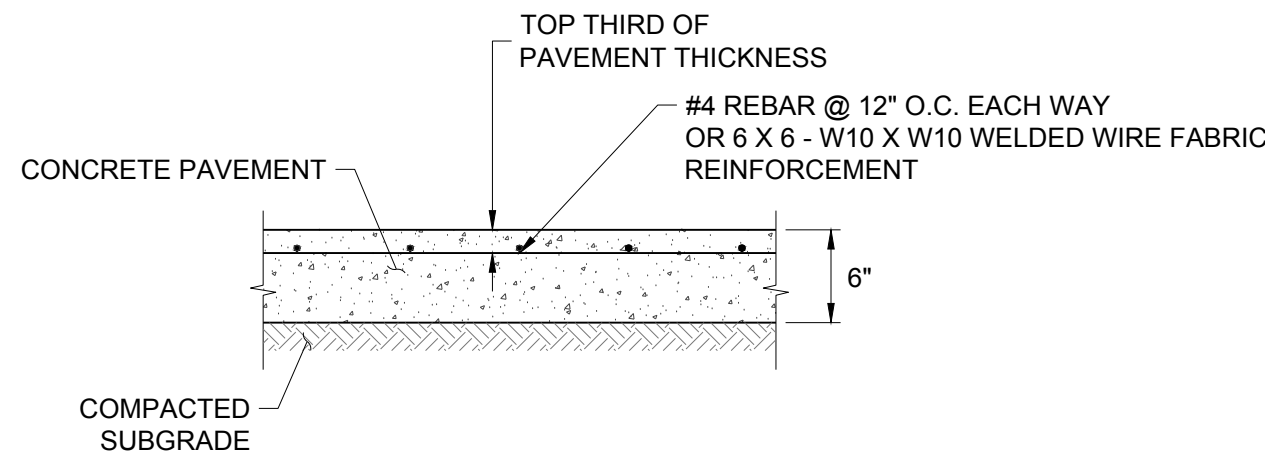


B CONCRETE PAVEMENT SECTION
NO SCALE



NOTE: INSTALL EXPANSION JOINT MATERIAL BETWEEN NEW PAVEMENT AND EXISTING CONCRETE / OTHER STRUCTURES. SET EXPANSION JOINT MATERIAL VERTICAL, WITH TOP EDGE BELOW FINISHED SURFACE OF CONCRETE

C CONCRETE PAVEMENT SECTION
NO SCALE



D CONCRETE PAVEMENT SECTION
NO SCALE

1 PAVEMENT SECTIONS
NO SCALE

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Town of Parker, Director of Engineering/Public Works Date



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DATE	06/03/2024
DESCRIPTION	1ST TOWN SUBMITTAL
NO.	1
DESCRIPTION	2ND TOWN SUBMITTAL
NO.	2

ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

SITE DETAILS

PROJECT: ADVENTHEALTH PARKER EXPANSION
DRAWING TITLE: SITE DETAILS

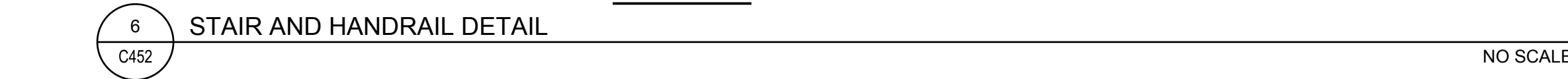
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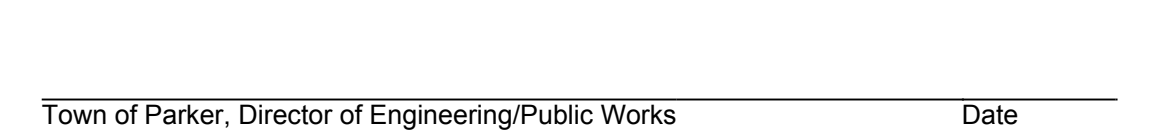
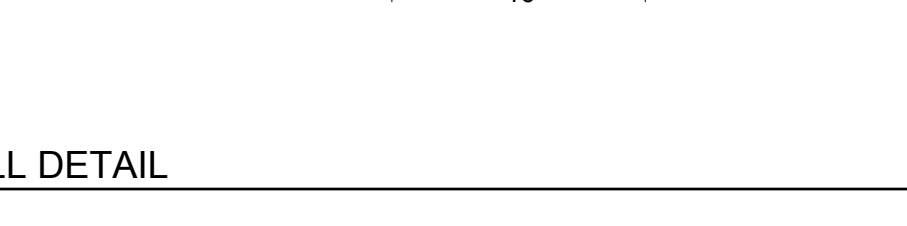
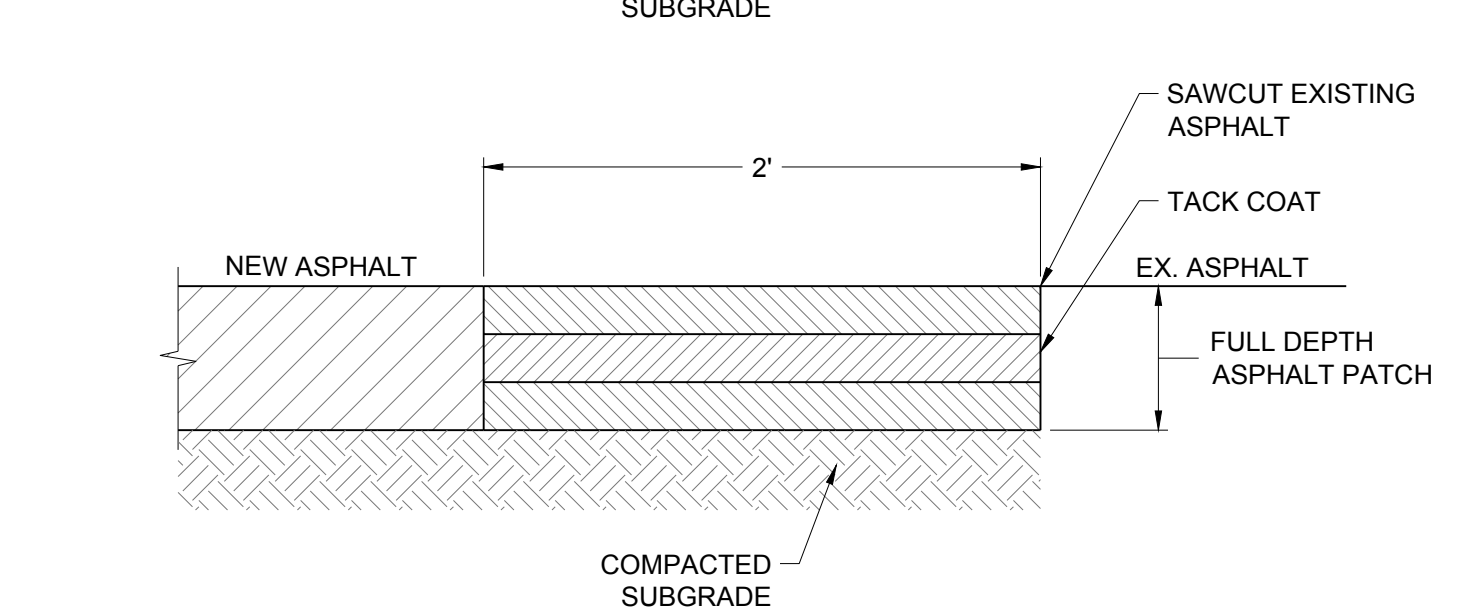
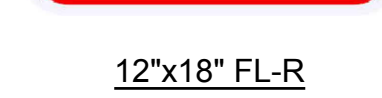
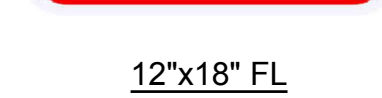
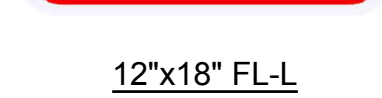
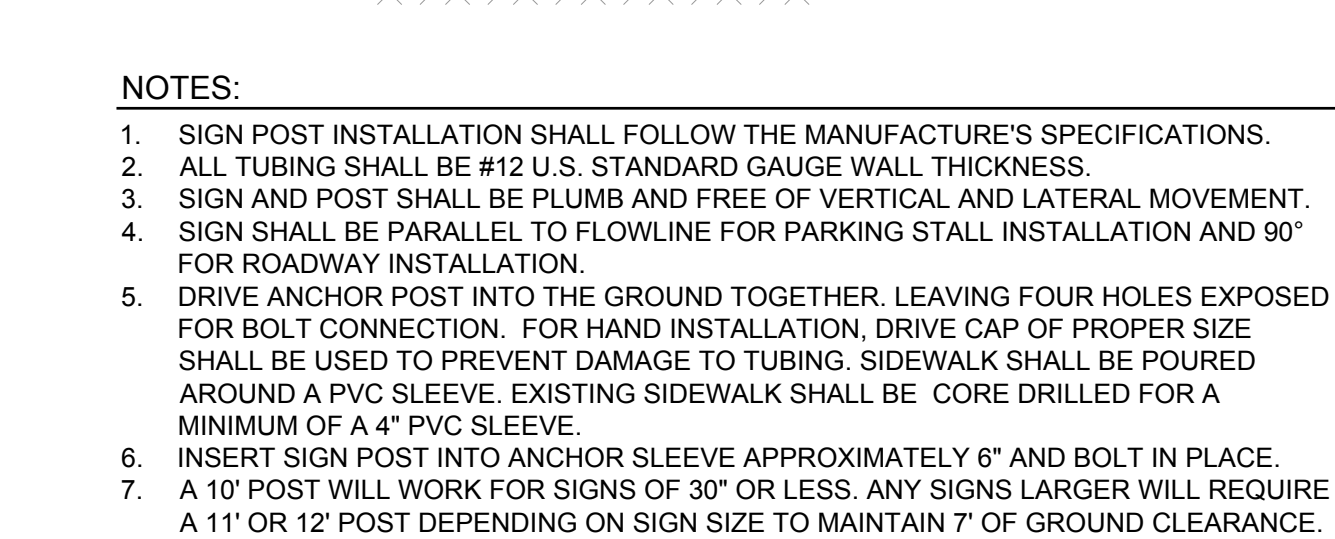
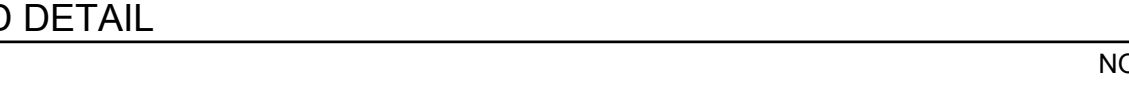
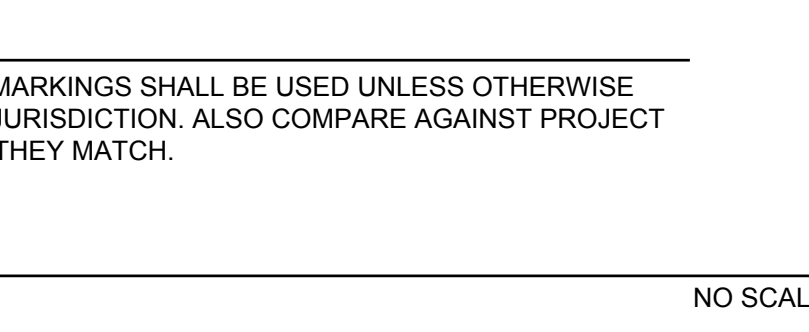
DESIGNED BY: RJH
DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079

DRAWING NUMBER:

C451



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ADVENTHEALTH PARKER EXPANSION

CROWN POINT FILING 1 AMMENDMENT 30, LOT 1, TRACT A & B
SITUATED IN THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

OWNER INFORMATION

ADVENTHEALTH PARKER
9395 CROWN CREST BLVD.
PARKER, CO. 80138
303-269-4014

DESIGN INFORMATION

ARCHITECT: BOULDER ASSOCIATES
PHONE: 303-499-7795

ARCHITECT: SMITHGROUP
PHONE: 303-832-3272

CIVIL ENGINEER: S. A. MIRO, INC
PHONE: 303-741-3737

LANDSCAPE ARCHITECT: OXBOW DESIGN COLLABORATION
PHONE: 720-465-6168

STRUCTURAL ENGINEER: MGA STRUCTURAL ENGINEERS, INC.
PHONE: 719-635-4473

MEPT ENGINEERS: CATOR RUMA & ASSOCIATES CO
PHONE: 303-232-6200

FIRE PROTECTION: TLH FIRE
PHONE: 303-517-1775

AGENCY LIST

CORE ELECTRIC COOPERATIVE
PO DRAWER A
5496 US HWY 85
SEDALIA, CO. 80135
303-688-3100
CONTACT: BROOKS KAUFMAN

FIRE-SOUTH METRO FIRE RESCUE
9195 E. MINERAL AVE
CENTENNIAL, CO 80112
720-989-2000
CONTACT: RANDY CAPRA

TOWN OF PARKER-PUBLIC WORKS
20120 E. MAINSTREET
PARKER, CO 80134
303-840-9546
CONTACT: MIKE WAUGH

CABLE-COMCAST
6880 S. TUSCON WAY
ENGLEWOOD, CO. 80112
303-603-5605
CONTACT: KEVIN YOUNG

TRI-COUNTY HEALTH DEPARTMENT
7000 E. BELLEVIEW AVENUE
GREENWOOD VILLAGE, CO. 80111
303-220-9200
CONTACT: CAROL MACLENNAN

CROWN POINT ARCHITECTURAL
CONTROL COMMITTEE
27905 MEADOW DRIVE, SUITE 11
EVERGREEN, CO 80439 303-674-7856
CONTACT: TIM LEONARD

GAS-XCEL ENERGY
2070 SOUTH VALENTIA STREET
DENVER, CO. 80231
1-800-628-2121
CONTACT: DESIGN MANAGER

TOWN OF PARKER
PLANNING AND BUILDING DEPT.
20120 E. MAIN STREET
PARKER, CO. 80134
303-841-2332
CONTACT: PAUL WORKMAN

COTTONWOOD WATER & SANITATION DISTRICT
2 INVERNESS DRIVE EAST
ENGLEWOOD, CO
303-792-9509

CONTACT: PATRICK MULHERN/ LAURI TATLOCK

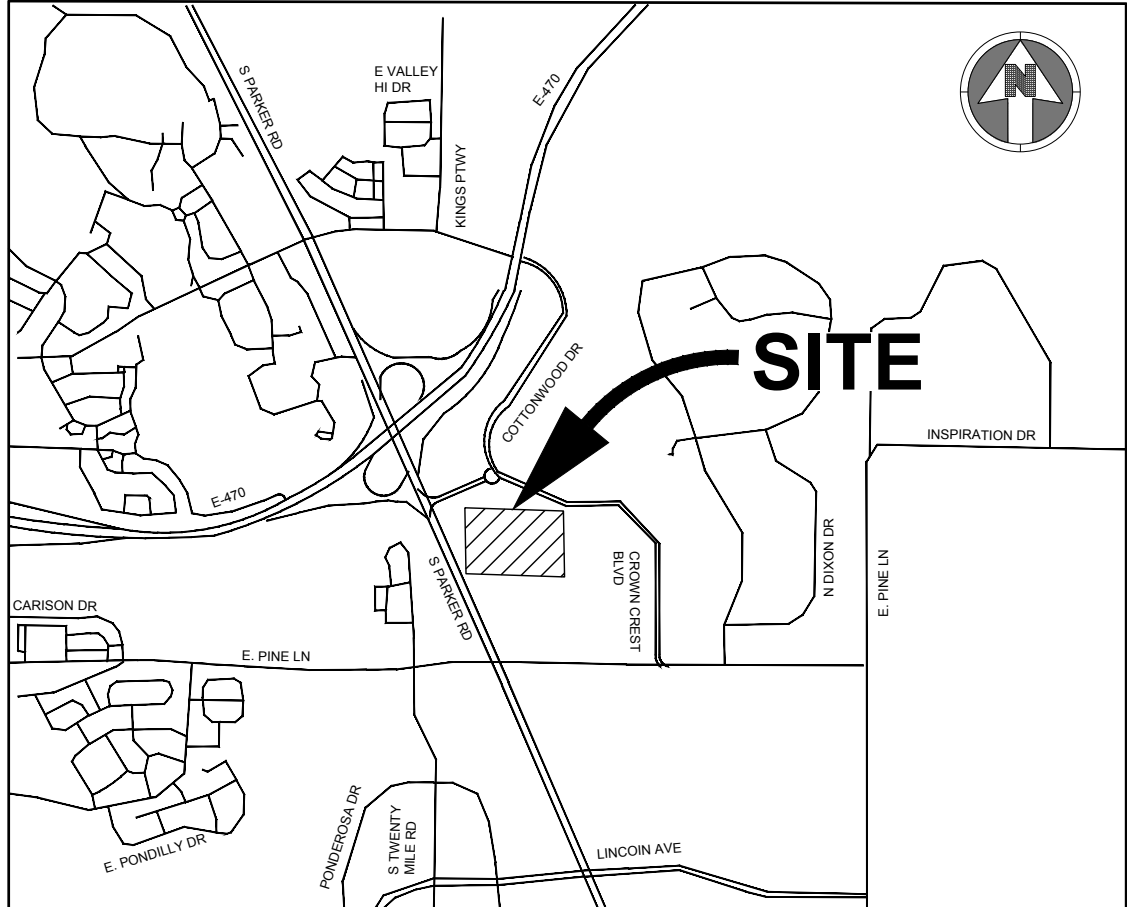
TELEPHONE - CENTURY LINK
LOCAL NETWORK OPERATIONS
9750 E. COSTILLA AVENUE
ENGLEWOOD, CO. 80112
303-792-1840
CONTACT: KAREN CAIME

COTTONWOOD WATER AND SANITATION
DISTRICT ENGINEER-KENNEDY JENKS CONSULTING
143 UNION BOULEVARD
SUITE 600
LAKEWOOD, CO 80228
PHONE: 303-985-3636
CONTACTS: TOM NAPOLILLI

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

Fire Code Official or Designated Representative _____ Date _____

(NOTE - UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA 24 WHEN SUBMITTING FOR REVIEW.)



VICINITY MAP

SCALE:1"=2000'

MATERIALS LIST	
ITEM	QUANTITY
12" DIP	306 LF
8" DIP	74 LF
6" DIP	97 LF
4" DIP	137 LF
FIRE HYDRANT	3
4" WATER METER	1
12" GATE VALVE	2
8" GATE VALVE	1
6" GATE VALVE	3
4" GATE VALVE	1
12"x12" TEE	1
12"x6" TEE	2
12"x8" TEE	1
12"x4" TEE	1
45° BEND	1
22.5° BEND	2
11.25° BEND	1
VERTICAL BEND	4
10" PVC	923
4" MANHOLE	6
DUAL CLEANOUT	1

Sheet List Table	
Sheet Number	Sheet Title
C500	WATER AND SANITARY COVER SHEET
C501	WATER AND SANITARY NOTES AND LEGEND
C511	UTILITY PLAN
C512	UTILITY PLAN
C531	SANITARY PLAN AND PROFILE
C532	SANITARY PLAN AND PROFILE
C551	WATER AND SANITARY DETAILS
C552	WATER AND SANITARY DETAILS
C553	WATER AND SANITARY DETAILS

GENERAL NOTES :

- NO VERTICAL CONSTRUCTION ON THIS SITE WILL BE ALLOWED UNTIL SUCH TIME THAT CURB, GUTTER, AND FIRST LIFT ASPHALT ARE INSTALLED. A SITE INSPECTION WILL BE REQUIRED TO ENSURE THAT THIS REQUIREMENT IS MADE PRIOR TO ALLOWING VERTICAL CONSTRUCTION TO COMMENCE

THE DISTRICT INSPECTOR MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL PARKER WATER AND SANITATION DISTRICT AT 303-841-4627. THE DISTRICT WILL PROVIDE PERIODIC INSPECTIONS OF THE 24 HOUR NOTICE TO THE INSPECTOR IS REQUIRED FOR SCHEDULING INSPECTIONS. ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____
(DISTRICT REPRESENTATIVE)

DATE: _____

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

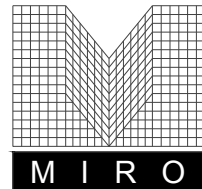
BY: _____
(DISTRICT ENGINEER)

DATE: _____

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH 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 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 _____



S. A. MIRO, INC.
CIVIL + STRUCTURAL
CONSULTING ENGINEERS

4582 S. Ulster St., Suite 750
Denver, CO 80237
303-741-3737
www.samiro.com



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DATE	DESCRIPTION	NO.
06/03/2024	1ST TOWN SUBMITTAL	1
08/16/2024	2ND TOWN SUBMITTAL	2

PROJECT: ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

DRAWING TITLE: WATER AND SANITARY COVER SHEET

FILE PATH: C:\Users\teda\Documents\S.A. Miro, Inc.\CivilJobs\23079 AHP Expansion\05 CAD\Plans and Details\C500-WATR-SSEW-COVR.dwg C500 - 8/16/2024

THIS DOCUMENT IS SUBJECT TO CHANGE AS A RESULT OF JURISDICTIONAL APPROVALS. CONSTRUCTION DOCUMENTS SHALL CONTAIN THE APPROVAL SIGNATURES OF THE REVIEWING ENTITIES. THIS DOCUMENT IS NOT FOR CONSTRUCTION.

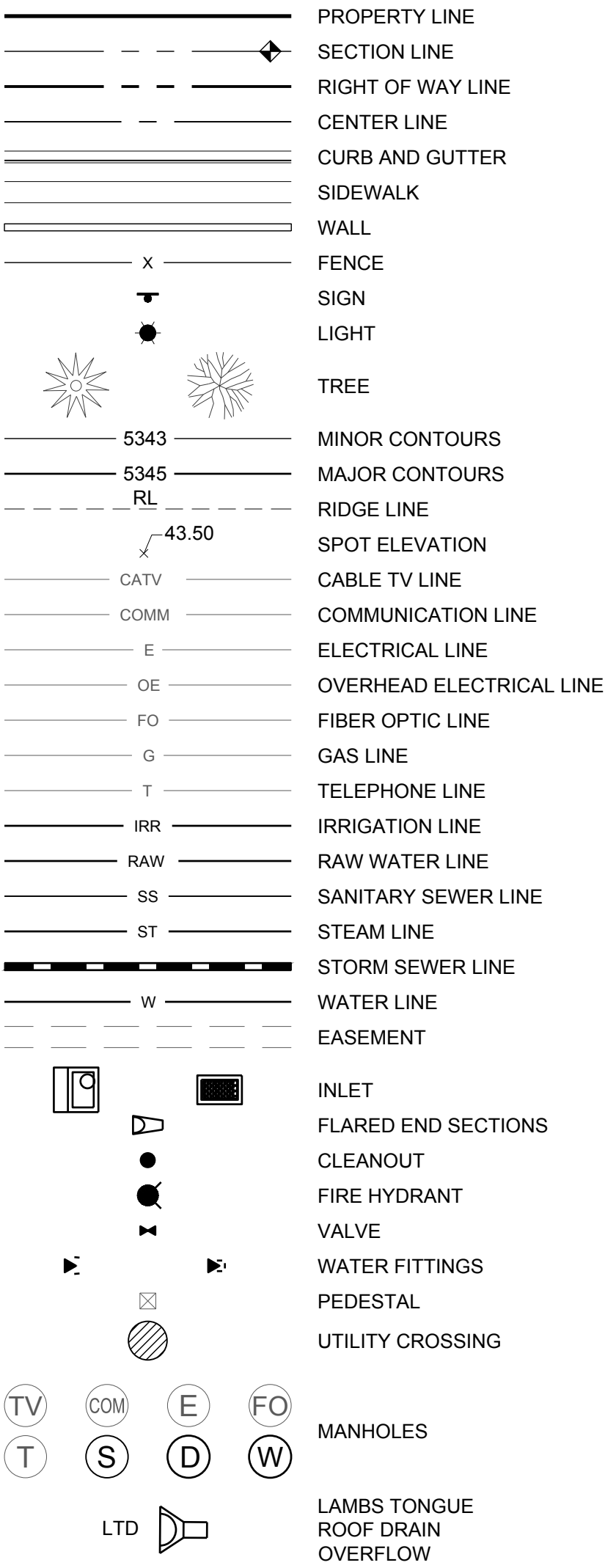
DESIGNED BY: RJH
DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079

DRAWING NUMBER:

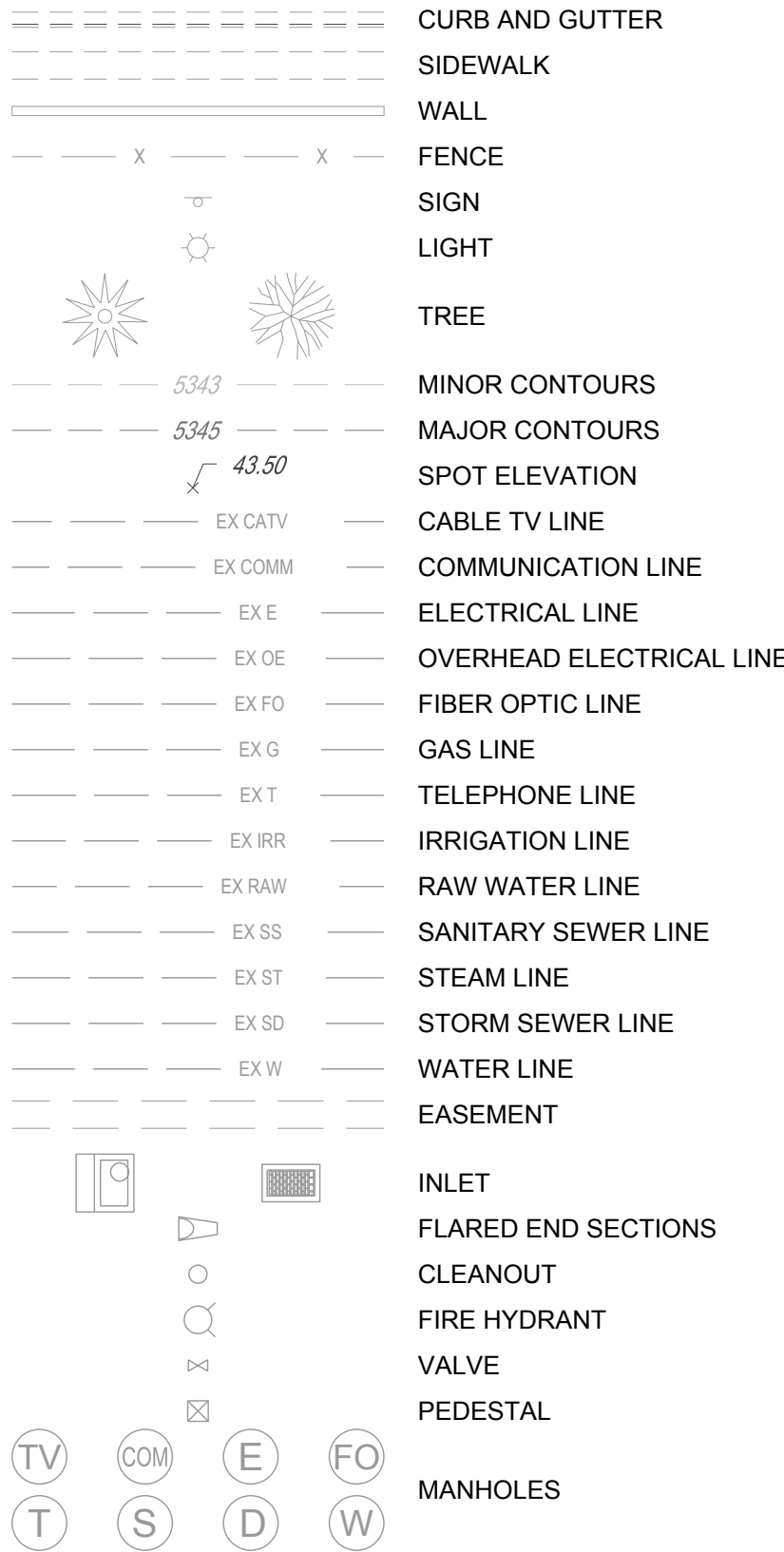
C500

MASTER LEGEND:

PROPOSED



EXISTING



COTTONWOOD WATER AND SANITATION DISTRICT GENERAL NOTES :

- ALL MAINS, SYSTEM PLANS AND CONSTRUCTION SHALL CONFORM TO THE COTTONWOOD WATER AND SANITATION DISTRICT (THE DISTRICT) SPECIFICATIONS AND SHALL BE SUBJECT TO CONSTRUCTION OBSERVATION BY DISTRICT PERSONNEL OR REPRESENTATIVES. ALL MATERIAL AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH DISTRICT SPECIFICATIONS AND STANDARDS.
- THE OWNER, HIS/HER ENGINEER, OR CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE DISTRICT MANAGER AND DISTRICT ENGINEER AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. PLANS WITH THE DISTRICT REVIEW STAMP WILL BE DISTRIBUTED PRIOR TO OR AT THE PRECONSTRUCTION MEETING. NO CONSTRUCTION WILL BE PERMITTED UNTIL FORMAL RECORDING OF EASEMENTS IS COMPLETE. NO CONSTRUCTION WILL BE PERMITTED PRIOR TO THE PRECONSTRUCTION MEETING.
- ALL WATER MAINS INSTALLED SHALL CONFORM TO DENVER WATER MATERIAL SPECIFICATIONS.
DUCTILE IRON PIPE MS-1 AWWA C151 CLASS 50 WITH POLYWRAP
POLYVINYL CHLORIDE (PVC) MS-2 AWWA C900-07 DR14 PVC
- THE APPROVAL OF THE CONSTRUCTION PLANS SIGNIFIES ONLY THAT THE PLANS MEET THE MINIMUM REQUIREMENTS OF THE DISTRICT'S STANDARDS AND SPECIFICATIONS BASED ON THE INFORMATION PROVIDED BY THE DESIGN ENGINEER, OWNER-DEVELOPER, AND CONTRACTOR. APPROVAL IS NOT A REPRESENTATION OR WARRANTY THAT THE SYSTEM AND ASSOCIATED COMPONENTS WILL PERFORM ANY CERTAIN FUNCTIONS.
- THE DISTRICT, ITS REPRESENTATIVE, AND/OR THE DISTRICT ENGINEER, IS NOT A GUARANTOR OF THE CONSTRUCTION CONTRACTORS' OBLIGATIONS AND PERFORMANCE OF CONTRACT.
- OBSERVATION OF WORK IN PROGRESS AND ON-SITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE BY THE DISTRICT OR DISTRICT ENGINEER OF THE CONTRACTOR'S CONTRACTUAL COMMITMENT.
- THE DISTRICT AND/OR DISTRICT ENGINEER IS NOT RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY OF ANY REGULATIONS RELATING THERETO.
- THE DISTRICT AND/OR DISTRICT ENGINEER, EXERCISES NO CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENTS, SCAFFOLDING, FORMS, OR ANY OTHER WORK AIDS USED IN OR ABOUT THE PROJECT, OR IN THE SUPERINTENDING OF THE SAME.
- THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE DESIGN ENGINEER, OR THE COUNTY.
- THE CONTRACTOR IS RESPONSIBLE FOR:
A. NOTIFYING ALL CUSTOMERS POSSIBLY AFFECTED BY OUTAGE OF WATER OR SEWER SERVICE DURING CONSTRUCTION PRIOR TO SHUTTING OFF SAID SERVICE.
B. OBTAINING, AT THE CONTRACTOR'S EXPENSE, ALL APPLICABLE LICENSES, PERMITS, BONDS, ETC. REQUIRED FOR MAIN INSTALLATION/SYSTEM MODIFICATIONS.
C. CONTACTING THE DISTRICT FOR A PRE-CONSTRUCTION MEETING AT 303-649-9857. CONSTRUCTION CANNOT START FOR AT LEAST 48 HOURS AFTER THE MEETING HAS BEEN HELD.
D. NOTIFYING THE DISTRICT 48 HOURS IN ADVANCE OF ANY NEEDS TO SHUT DOWN ANY PORTION OF THE EXISTING WATER AND/OR SANITARY SEWER SYSTEM.
E. NOTIFYING THE DISTRICT 48 HOURS IN ADVANCE FOR CONSTRUCTION OBSERVATIONS.
F. IN CASE OF AN EMERGENCY AFTER WORKING HOURS CALL THE DISTRICT OFFICE AT (303) 426-3167 FOR RECORDED INSTRUCTIONS.
- UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION HAVE BEEN LOCATED FROM FIELD INVESTIGATION AND THE BEST AVAILABLE UTILITY RECORDS AND ARE APPROXIMATE ONLY. THE DISTRICT ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL COORDINATE HIS/HER ACTIVITIES WITH THE AFFECTED UTILITY COMPANIES AND SHALL NOTIFY THE UTILITY NOTIFICATION CENTER, PHONE NO. 1-800-922-1987, 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL PERFORM POTHOLING ON EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF THE WATER AND/OR SANITARY SEWER LINES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION COST OF THE PIPELINE.
- THE CONTRACTOR SHALL HAVE IN HIS/HER POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PROJECT PLANS SIGNED BY THE DISTRICT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING SIGNS, STRUCTURES, FENCES, ETC ENCOUNTERED ON THE JOB AND RESTORING THEM TO THEIR ORIGINAL CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. USE OF THE DISTRICTS SEWER SYSTEM FOR THE DISPOSAL OF GROUND WATER IS PROHIBITED WITHOUT WRITTEN CONSENT FROM THE DISTRICT. NO CONCRETE SHALL BE PLACED WHERE GROUNDWATER IS VISIBLE OR UNTIL THE GROUNDWATER TABLE HAS BEEN LOWERED BELOW THE PROPOSED IMPROVEMENTS. ANY UNSTABLE AREAS, AS A RESULT OF GROUNDWATER, ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE DISTRICT AND THE DESIGN ENGINEER AT THE TIME OF THE OCCURRENCE.
- IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO RESOLVE CONSTRUCTION PROBLEMS WITH THE DISTRICT DUE TO CHANGED CONDITIONS ENCOUNTERED DURING THE PROGRESS OF ANY PORTION OF THE PROPOSED WORK. IF, IN THE OPINION OF THE DISTRICT, PROPOSED ALTERATIONS TO THE SIGNED CONSTRUCTION PLANS INVOLVES SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR SUBMITTING REVISED PLANS TO THE DISTRICT FOR REVIEW PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE WORK.
- THE OWNER IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PLAN REVIEW AND CONSTRUCTION OBSERVATION.
- MAINTAIN MINIMUM OF 10 FEET SEPARATION BETWEEN WATER AND SANITARY SEWER MAINS AND SERVICES IN ACCORDANCE WITH COLORADO STATE DEPARTMENT OF HEALTH AND ENVIRONMENT STANDARDS.
- THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A TRAFFIC CONTROL PLAN TO DOUGLAS COUNTY AND TO CDOT PRIOR TO ISSUANCE OF A STREET CUT PERMIT.
- SHOP DRAWINGS ARE TO BE SUBMITTED AT LEAST 48 HOURS PRIOR TO THE INSTALLATION OF ANY MATERIALS FOR ALL PIPES, FITTINGS AND APPURTENANCES.

COTTONWOOD WATER NOTES :

- EXISTING VALVES IN THE DISTRICT SERVICE AREA MAY ONLY BE OPERATED BY DISTRICT PERSONNEL.
- BEFORE ANY TAPS ARE MADE TO MAINS, APPLICATION(S) FOR THE TAPS MUST BE RECEIVED AND APPROVED BY THE DISTRICT.
- IRRIGATION DEMANDS MUST BE FORMALLY SUBMITTED FOR ALL PROJECT REQUIRING WATER FOR LANDSCAPING PURPOSES.
- FINAL PLUMBING PLANS MUST BE RECIEVED AND REVIEWED BY THE DISTRICT ENGINEER BEFORE WATER SERVICE TAPS CAN BE AWARDED IN ORDER TO PERFORM FUTURE UNIT ANALYSIS TO VERIFY TAP SIZE FOR ALL COMMERCIAL, INDUSTRIAL AND MULTI-FAMILY DEVELOPMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THE WATER LINE WORK.
- PRIOR TO INSTALLATION OF WATER MAINS, ROAD CONSTRUCTION MUST HAVE PROGRESSED TO AT LEAST THE "SUB-GRADE" STAGE. SUB-GRADE IS DEFINED AS AN ELEVATION OF NO MORE THAN SEVEN (7) INCHES BELOW THE FINISHED STREET GRADE. THE CONTRACTOR WILL ADJUST ALL VALVE BOXES AND FIRE HYDRANTS TO THE FINAL FINISHED GRADE.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF FOUR AND ONE-HALF (4-1/2) FEET OF COVER AND ARE TO BE THREE (3) FEET FROM THE EDGE OF THE GUTTER PAN.
- DISTANCE FOR WATERLINES IS THE HORIZONTAL DISTANCE BETWEEN CENTER OF FITTING TO CENTER OF VALVE, METER, ETC. THEREFORE, THE DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AT FITTING DIMENSIONS.
- ALL HYDRANT LATERALS AND FIRE LINES SHALL BE DUCTILE IRON PIPE CLASS 50 AND FULLY RESTRAINED WITH POLYWRAP.
- ALL WATER LINE VALVES SHALL BE SET AT THE INTERSECTION OF THE EXTENDED PROPERTY LINE AND WATER LINE, EXCEPT WHERE THAT POINT FALLS IN THE FLOW LINE OF A CONCRETE CROSS PAN. IN THAT CASE, THE VALVE SHALL BE LOCATED SO THAT THE SURFACE DRAINAGE DOES NOT INFILTRATE THE VALVE BOX. IF A TAPPING TEE IS NOT LOCATED ON A PROPERTY LINE THEN THE ASSOCIATED VALVE WILL NOT BE REQUIRED AS SHOWN ON THE PLANS. VALVE BOXES SHALL BE SET AT AN ELEVATION IN ACCORDANCE WITH COUNTY PAVING REQUIREMENTS.
- ALL VALVES, VALVE BOXES, CURB STOPS AND/OR METER PIT COVERS SHALL HAVE THE WORD "WATER" STAMPED ON THEM. ALL POTABLE WATER VALVES SHALL BE OPENED IN A CLOCKWISE DIRECTION. ALL VALVE BOXES AND FIRE HYDRANTS WILL BE ADJUSTED TO THE FINAL FINISHED GRADE BY THE CONTRACTOR.
- ALL IRRIGATION AND NON-POTABLE PIPE SHALL BE PURPLE IN COLOR OR SHALL BE LABELED WITH PURPLE TAPE READING "CAUTION NONPOTABLE WATER" ALONG THE FULL LENGTH OF THE PIPE.
- POLYETHYLENE WRAPPINGS SHALL BE INSTALLED AROUND ALL DUCTILE IRON PIPE, FITTINGS, VALVES, FIRE HYDRANT BARRELS, AND RODS AND CLAMPS. THE POLYETHYLENE SHALL HAVE A MINIMUM THICKNESS OF EIGHT (8) MILS.
- TRACER WIRE, GAUGE 12 COPPER, SHALL BE INSTALLED ON ALL WATER LINES, FIRE HYDRANTS LATERALS AND APPURTENANCES.
- INDIVIDUAL SERVICE LINES ARE REQUIRED TO HAVE PRV'S WHEN SYSTEM PRESSURE EXCEEDS 80 PSI IN ACCORDANCE WITH UNIFORM PLUMBING CODE.
- A BACKFLOW PREVENTION DEVICE APPROVED BY DENVER WATER IS REQUIRED ON THE TREATED WATER SERVICE LINE FOR:
A. ALL COMMERCIAL AND MULTI-FAMILY DOMESTIC TAPS.
B. FIRE LINES
- ALL WATER LINES SHALL BE CHLORINATED IN ACCORDANCE WITH AWWA C-651, "DISINFECTING WATER MAINS." THE REQUIRED METHOD IS TO USE SUFFICIENT CHLORINE TABLET TO PRODUCE A 25 MG/L SOLUTION. THESE TABLETS SHALL BE ADHERED TO THE TOP OF THE PIPE WITH A FOOD GRADE ADHESIVE SUCH AS PERMATED CLEAR R.T.V. CHLORINATION OF 16-INCH AND LARGER PIPE REQUIRE A CHLORINE SLURRY. THE CHLORINATION OF ANY FINISHED PIPELINE SHALL BE COMPLETED PRIOR TO HYDROSTATIC TESTING.
- THE WATER QUALITY CONTROL DIVISION OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) REQUIRES ALL WATER LINE CONTRACTORS TO POSSESS A CURRENT DISCHARGE PERMIT FOR DISCHARGES OF CHLORINATED AND PROCESS WATERS ASSOCIATED WITH THE INSTALLATION OF NEW MAINS OR CONDUITS. CONTACT CDPHE WATER QUALITY CONTROL DIVISION AT (303) 692-3539 FOR INFORMATION ON OBTAINING THE REQUIRED PERMIT.
- HYDROSTATIC TESTING: ALL WATER LINES SHALL BE HYDROSTATIC TESTED IN ACCORDANCE WITH AWWA C-600 SECTION 4 "HYDROSTATIC TESTING". ALL WATER LINES SHALL BE TESTED TO A MINIMUM OF 160 PSI. THE TEST SHALL BE SCHEDULED WITH THE DISTRICT AUTHORITY AND COORDINATED WITH ANY OTHER REVIEWING OR APPROVING AGENCY. THE CONSTRUCTOR SHALL FURNISH ALL EQUIPMENT FOR TESTING. THE ALLOWABLE LEAKAGE RATES ARE AS FOLLOWS:

PIPE I.D.	ALLOWABLE LEAKAGE PER 1000 FEET	
	D.I.P	PVC
4"	0.37 GAL/HOUR	0.33 GAL/HOUR
6"	0.55 GAL/HOUR	0.50 GAL/HOUR
8"	0.74 GAL/HOUR	0.66 GAL/HOUR
12"	1.10 GAL/HOUR	1.00 GAL/HOUR
16"	1.47 GAL/HOUR	
20"	1.84 GAL/HOUR	

- ONLY ONE (1) POINT OF CONNECTION WILL BE ALLOWED UNTIL ALL TESTING OF NEW INSTALLATIONS IS COMPLETED TO THE DISTRICT'S SATISFACTION.
- PROBATIONARY ACCEPTANCE OF THE NEW WATER LINES IS CONTINGENT UPON RECEIVING COPIES OF:
A. PASSING WATER LINE TRENCH COMPACTION TEST RESULTS;
B. PASSING HYDROSTATIC PRESSURE TEST RESULTS;
C. RECORD DRAWINGS
D. PASSING HEALTH DEPARTMENT TESTS (CHLORINE AND/OR CLEAR WATER AS REQUIRED)
- THE COST OF THE WATER LINE CONSTRUCTION IS \$_____.
- THE STATIC PRESSURE MEASURED AT THE FIRE HYDRANT LOCATED AT THE PARKER ADVENTIST HOSPITAL IS 90 PSI. PLEASE INTERPOLATE TO DETERMINE THE PRESSURE AT THE CONNECTION TO THE EXISTING SYSTEM. 9395 CROWN CREST BLVD, PARKER, CO 80138

COTTONWOOD SANITARY SEWER NOTES :

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THE SANITARY SEWER LINE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR:
A. NOTIFYING THE DISTRICT 48 HOURS IN ADVANCE OF ANY NEED TO SHUT DOWN ANY PORTION OF THE EXISTING SANITARY SEWER SYSTEM.
B. NOTIFYING THE DISTRICT 48 HOURS IN ADVANCE OF THE WORK.
C. IN CASE OF AN EMERGENCY AFTER WORKING HOURS, CALL THE DISTRICT OFFICE AT (303) 986-2275 FOR RECORDED INSTRUCTIONS.
- UNDERDRAINS ARE NOT PART OF THE SANITARY SEWER LINES OR SYSTEM AND WILL NOT BE ALLOWED IN THE SAME TRENCH AS THE SANITARY SEWER MAINS. UNDERDRAINS SHALL NOT BE ACCEPTED, MAINTAINED OR SUBJECT TO CONSTRUCTION OBSERVATION BY THE DISTRICT. THE DISTRICT HAS NO SPECIFICATIONS FOR UNDERDRAINS AND WILL ONLY REVIEW THEIR PROPOSED LOCATION RELATIVE TO THE SANITARY SEWER LINES.
- THE CONTRACTOR SHALL VERIFY EXISTING MANHOLE INVERTS TO BE CONNECTED TO PRIOR TO CONSTRUCTION STAKING AND CONSTRUCTION.
- PRIOR TO INSTALLATION OF SANITARY SEWER MAINS, ROAD CONSTRUCTION MUST HAVE PROGRESSED TO AT LEAST THE SUB-GRADE STAGE. SUB-GRADE IS DEFINED AS AN ELEVATION OF NO MORE THAN SEVEN (7) INCHES BELOW THE FINISHED STREET GRADE. THE CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS TO THE FINAL FINISHED GRADE.
- THE LENGTH OF SANITARY SEWER IS THE HORIZONTAL DISTANCE BETWEEN CENTERS OF MANHOLE. THEREFORE DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND MANHOLE DIMENSIONS.
- THE PIPE USED FOR SANITARY SEWER MAINS SHALL BE IN ACCORDANCE WITH ASTM D-3034 SDR 35 PVC PIPE IN PAVED RIGHTS-OF-WAY AND EASEMENTS, AND AWWA C-900 CLASS 165 (DR25) IN UNPAVED EASEMENTS OR AS NOTED ON THE PROJECT PLANS.
- MANHOLE RIMS SHALL BE SET AT AN ELEVATION RELATIVE TO THE PAVEMENT. IN ACCORDANCE WITH COUNTY STANDARDS. WHETHER THE MANHOLE IS IN A PAVED OR UNPAVED GRADE, A MAXIMUM ACCEPTABLE VERTICAL ADJUSTMENT UTILIZING CONCRETE RINGS IS TWELVE (12) INCHES.
- THE CONTRACTOR SHALL TAKE CARE TO PROPERLY SHAPE ALL MANHOLE INVERTS AND BENCHES IN ACCORDANCE WITH DISTRICT STANDARDS AND SPECIFICATIONS, TO PROMOTE SMOOTH FLOW THROUGH THE MANHOLE. INVERTS OF LINES INTERSECTING AT 90 DEGREES AND AT HIGHLY DIVERGENT OR FLAT SLOPES ARE ESPECIALLY CRITICAL. MANHOLE INVERTS SHALL BE CONSTRUCTED WITH A SMOOTH TROWEL FINISH, AND BENCHES FINISHED WITH A LIGHT BROOM, NON-SKID FINISH.
- TRACER WIRE, GAUGE 12 COPPER, SHALL BE INSTALLED ON ALL SEWER LINES, MANHOLES, AND CLEANOUTS.
- THE SANITARY SEWER SERVICE SHALL BE STUBBED OUT. THE END OF THE STUB SHALL BE WITNESSED BY A WOOD, CARSONITE OR METAL POST AT LEAST FOUR FEET LONG, BURIED TO EXPOSE ONE FOOT. THE CONTRACTOR SHALL FURNISH THE AUTHORITY WITH AN AS-BUILT LOCATION OF THE WYE.
A. LOW PRESSURE AIR TEST 100% OF THE NEW SYSTEM, AND
B. DEFLECTION TEST, AT A MINIMUM 33% OF THE SYSTEM FIFTEEN (15) FEET OR LESS IN DEPTH, AND 100% OF THE SYSTEM GREATER THAN FIFTEEN (15) FEET IN DEPTH.
C. JET AND TV/VIDEO TAPE 100% OF THE SYSTEM.
- PROBATIONARY ACCEPTANCE OF THE NEW SANITARY SEWER MAINS IS CONTINGENT UPON RECEIVING COPIES OF:
A. SANITARY SEWER TRENCH COMPACTION TEST RESULTS,
B. RECORD DRAWINGS, AND
C. COMPLETION OF SYSTEM TESTING.
- CONNECTIONS TO EXISTING DISTRICT LINES WILL BE PERMITTED UPON ACCEPTANCE OF THE NEW SANITARY SEWER SYSTEM. EXISTING PIPE AT THE POINT OF CONNECTION SHALL NOT BE "BROKEN OUT" UNTIL THE NEW SYSTEM IS ACCEPTED.
- MONITORING MANHOLES ARE REQUIRED FOR ALL COMMERCIAL AND INDUSTRIAL SANITARY SERVICE LINES.
- PIPE BEDDING UP TO 16-FEET IN DEPTH IS TO BE SQUEEGEE. PIPE BEDDING IN EXCESS OF 16-FEET IN DEPTH IS TO BE 34-INCH AGGREGATE. PIPE BEDDING IN EXCESS OF 22-FEET MUST BE SPECIFIED BY THE DISTRICT ENGINEER.

ABBREVIATIONS:

BFV	BUTTERFLY VALVE	PCC	POINT OF COMPOUND CURVATURE
BOV	BLOW OFF VALVE	PCR	POINT OF CURB RETURN
BW	BOTTOM OF WALL @ FINISHED GRADE	PI	POINT ON INTERSECTION
CL	CENTERLINE	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PT	POINT OF TANGENCY
EJ	EXPANSION JOINT	PVC	POLYVINYL CHLORIDE
ELEC.	ELECTRIC	RCP	REINFORCED CONCRETE PIPE
ELEV.	ELEVATION	RCB	REINFORCED CONCRETE BOX
EX	EXISTING	RL	RIDGE LINE
FES	FLARED END SECTION	ROW	RIGHT OF WAY
FG	FINISHED GRADE	RT	RIGHT
FS	FINISHED SURFACE	SD	STORM DRAINAGE SEWER
FL	FLOWLINE	SS	SANITARY SEWER
GB	GRADE BREAK	STA:	STATION
HP	HIGH POINT	STRM	STORM SEWER
FH	FIRE HYDRANT	TOF	TOP OF FLANGE
INV.	INVERT	TOP	TOP OF PIPE
IRR	IRRIGATION	TW	TOP OF WALL @ FINISHED GRADE
KB	KICK BLOCK	TYP.	TYPICAL
LF	LINEAR FEET	VCP	VITRIFIED CLAY PIPE
LP	LOW POINT	VPC	VERTICAL POINT OF CURVATURE
LT	LEFT	VPI	VERTICAL POINT OF INTERSECTION
ME	MATCH EXISTING	W	WATER
MH	MANHOLE	W	WATER
PC	POINT OF CURVATURE	W	WATER

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DATE	DESCRIPTION	NO.	1	2					
06/03/2024	1ST TOWN SUBMITTAL								
08/16/2024	2ND TOWN SUBMITTAL								

PROJECT: **ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

DRAWING TITLE: **WATER AND SANITARY NOTES AND LEGEND**

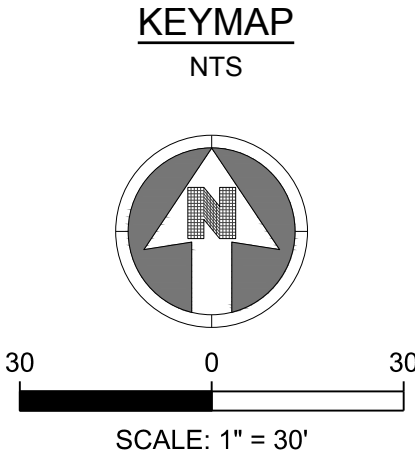
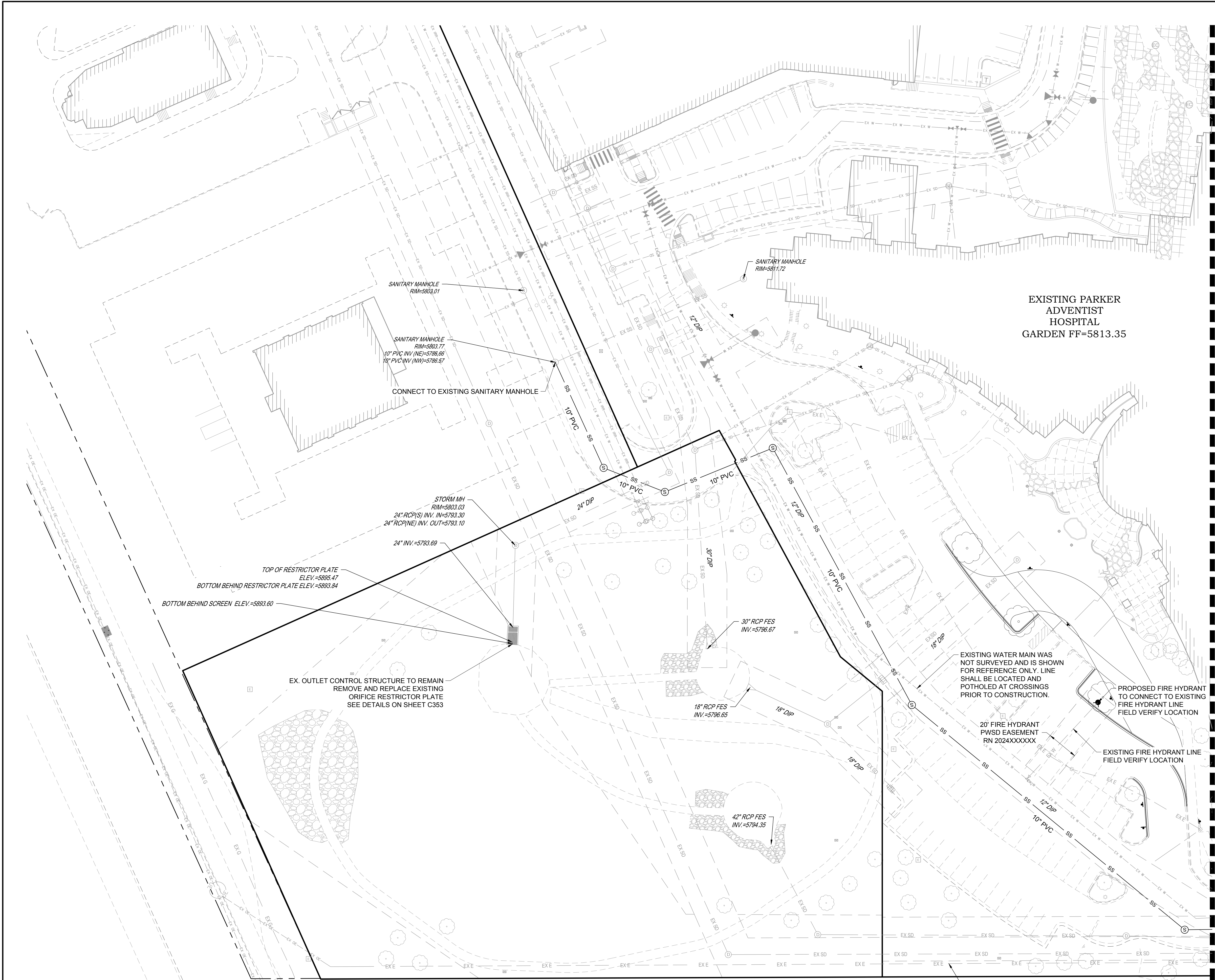
FILE PATH: C:\Users\leda\Documents\A. Miro, Inc.\Civil\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C500-WATR-SSEW-COVW.dwg C501 - 8/16/2024

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DESIGNED BY:	RJH
DRAWN BY:	EDS
CHECKED BY:	MHV
MIRO JOB NO.	23079

DRAWING NUMBER:

C501



- LEGEND:
- | | | | |
|----------|--------|-----|------------------------------------|
| --- | EX E | --- | EXISTING SURVEYED ELECTRICAL LINE |
| --- | EX FO | --- | EXISTING SURVEYED FIBER OPTIC LINE |
| --- | EX G | --- | EXISTING SURVEYED GAS LINE |
| --- | EX T | --- | EXISTING SURVEYED TELEPHONE LINE |
| --- | EX SS | --- | EXISTING SURVEYED SANITARY LINE |
| --- | EX SD | --- | EXISTING SURVEYED STORM LINE |
| --- | EX W | --- | EXISTING SURVEYED WATER LINE |
| --- | EX UE | --- | EXISTING DESIGNED ELECTRICAL LINE |
| --- | EX GAS | --- | EXISTING DESIGNED GAS LINE |
| --- | EX SS | --- | EXISTING DESIGNED SANITARY LINE |
| --- | EX SD | --- | EXISTING DESIGNED STORM LINE |
| --- | EX W | --- | EXISTING DESIGNED WATER LINE |
| --- | --- | --- | EXISTING EASEMENT |
| [Symbol] | --- | --- | EXISTING STORM INLET |
| [Symbol] | --- | --- | EXISTING CLEANOUT |
| [Symbol] | --- | --- | EXISTING FIRE HYDRANT |
| [Symbol] | --- | --- | EXISTING WATER VALVE |
| [Symbol] | --- | --- | EXISTING MANHOLES |
| [Symbol] | --- | --- | PROPOSED ELECTRICAL LINE |
| [Symbol] | --- | --- | PROPOSED FIBER OPTIC LINE |
| [Symbol] | --- | --- | PROPOSED GAS LINE |
| [Symbol] | --- | --- | PROPOSED TELEPHONE LINE |
| [Symbol] | --- | --- | PROPOSED SANITARY LINE |
| [Symbol] | --- | --- | PROPOSED STORM LINE |
| [Symbol] | --- | --- | PROPOSED WATER LINE |
| [Symbol] | --- | --- | PROPOSED STORM INLET |
| [Symbol] | --- | --- | PROPOSED CLEANOUT |
| [Symbol] | --- | --- | PROPOSED FIRE HYDRANT |
| [Symbol] | --- | --- | PROPOSED WATER VALVE |
| [Symbol] | --- | --- | PROPOSED WATER FITTINGS |
| [Symbol] | --- | --- | PROPOSED MANHOLES |

SEE SHEET C512

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

Fire Code Official or Designated Representative _____ Date _____

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NO.	1		2	

PROJECT: **ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

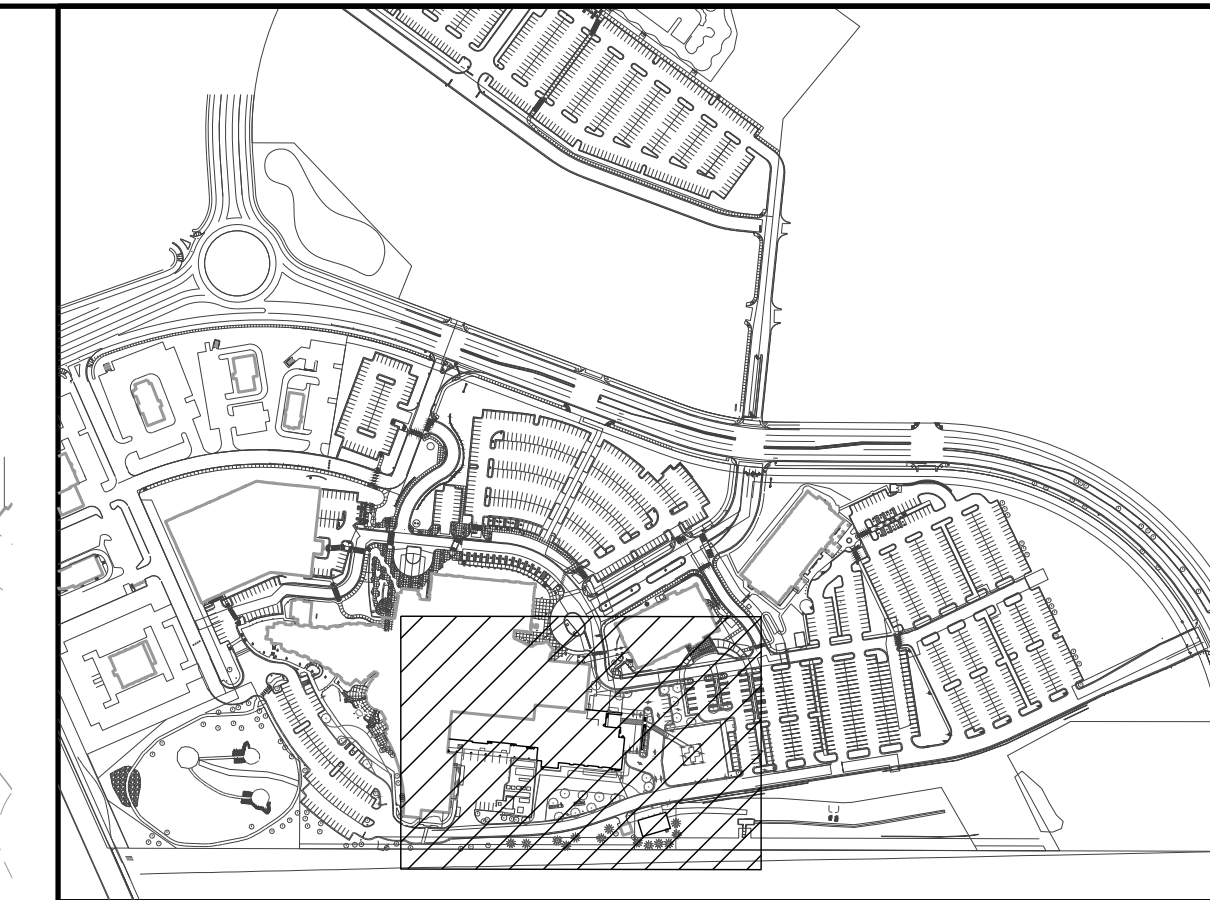
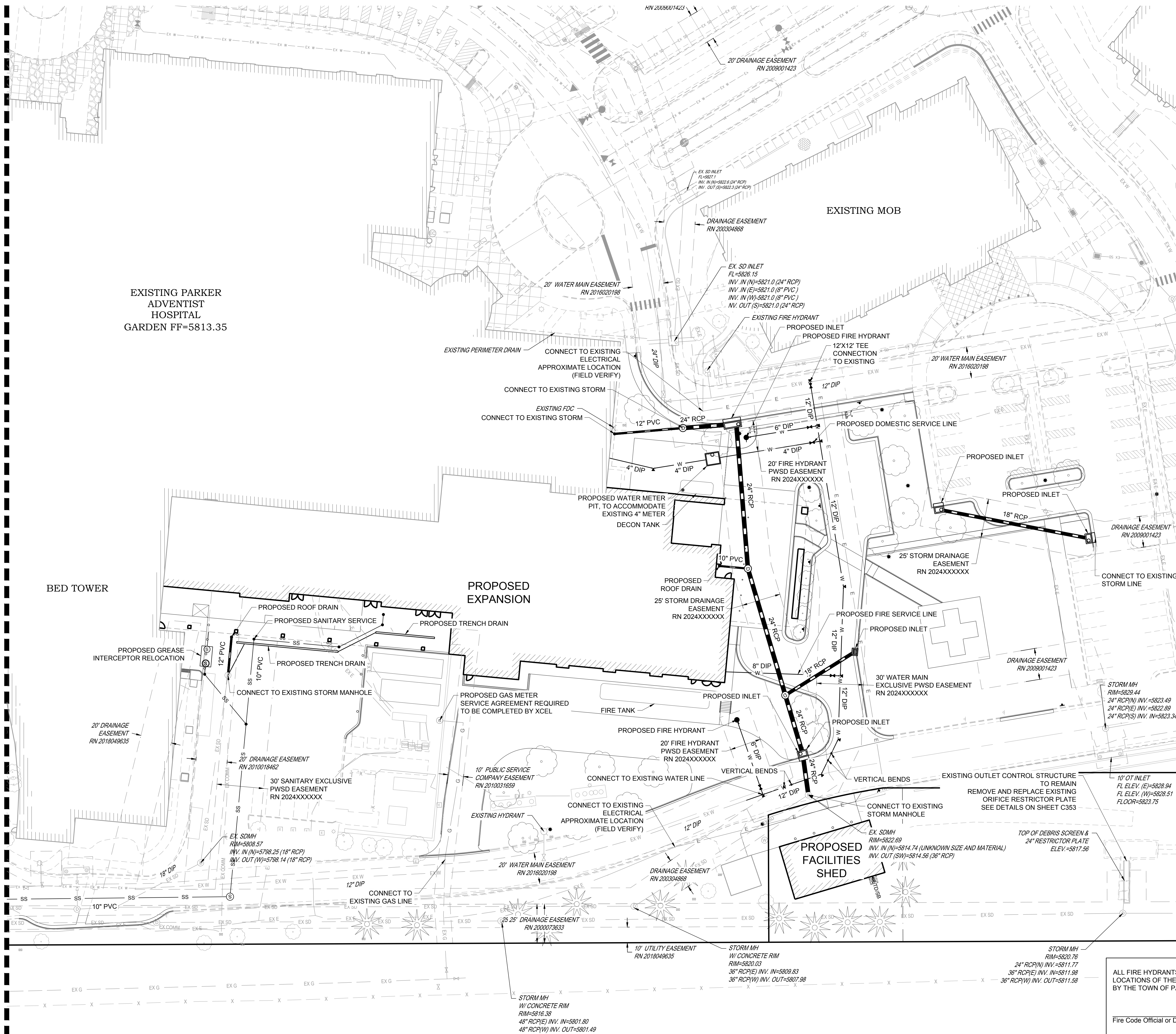
DRAWING TITLE: **UTILITY PLAN**

FILE PATH: _____

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CHECKED BY:	MHV
MIRO JOB NO.	23079
DRAWING NUMBER:	C511

SEE SHEET C511



KEYMAP
NTS

30 0 30
SCALE: 1" = 30'

LEGEND:

---	EX E	EXISTING SURVEYED ELECTRICAL LINE
---	EX FO	EXISTING SURVEYED FIBER OPTIC LINE
---	EX G	EXISTING SURVEYED GAS LINE
---	EX T	EXISTING SURVEYED TELEPHONE LINE
---	EX SS	EXISTING SURVEYED SANITARY LINE
---	EX SD	EXISTING SURVEYED STORM LINE
---	EX W	EXISTING SURVEYED WATER LINE
---	EX UE	EXISTING DESIGNED ELECTRICAL LINE
---	EX GAS	EXISTING DESIGNED GAS LINE
---	EX SS	EXISTING DESIGNED SANITARY LINE
---	EX SD	EXISTING DESIGNED STORM LINE
---	EX W	EXISTING DESIGNED WATER LINE
---	EX E	EXISTING EASEMENT
---	---	EXISTING STORM INLET
---	---	EXISTING CLEANOUT
---	---	EXISTING FIRE HYDRANT
---	---	EXISTING WATER VALVE
---	---	EXISTING MANHOLES
---	---	PROPOSED ELECTRICAL LINE
---	---	PROPOSED FIBER OPTIC LINE
---	---	PROPOSED GAS LINE
---	---	PROPOSED TELEPHONE LINE
---	---	PROPOSED SANITARY LINE
---	---	PROPOSED STORM LINE
---	---	PROPOSED WATER LINE
---	---	PROPOSED STORM INLET
---	---	PROPOSED CLEANOUT
---	---	PROPOSED FIRE HYDRANT
---	---	PROPOSED WATER VALVE
---	---	PROPOSED WATER FITTINGS
---	---	PROPOSED MANHOLES

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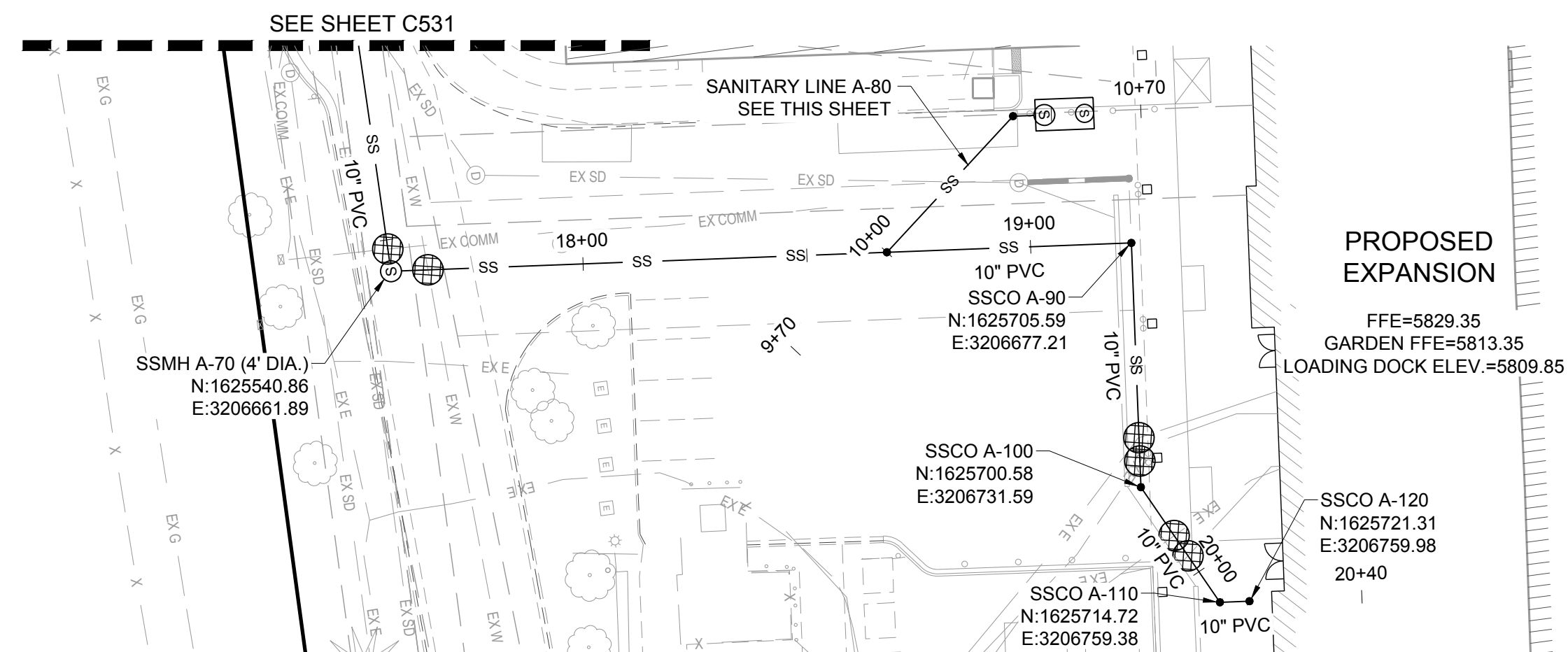
DATE	DESCRIPTION	NO.	PROJECT	DRAWING TITLE:	FILE PATH:
06/03/2024	1ST TOWN SUBMITTAL	1	ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138	UTILITY PLAN	
08/16/2024	2ND TOWN SUBMITTAL	2			

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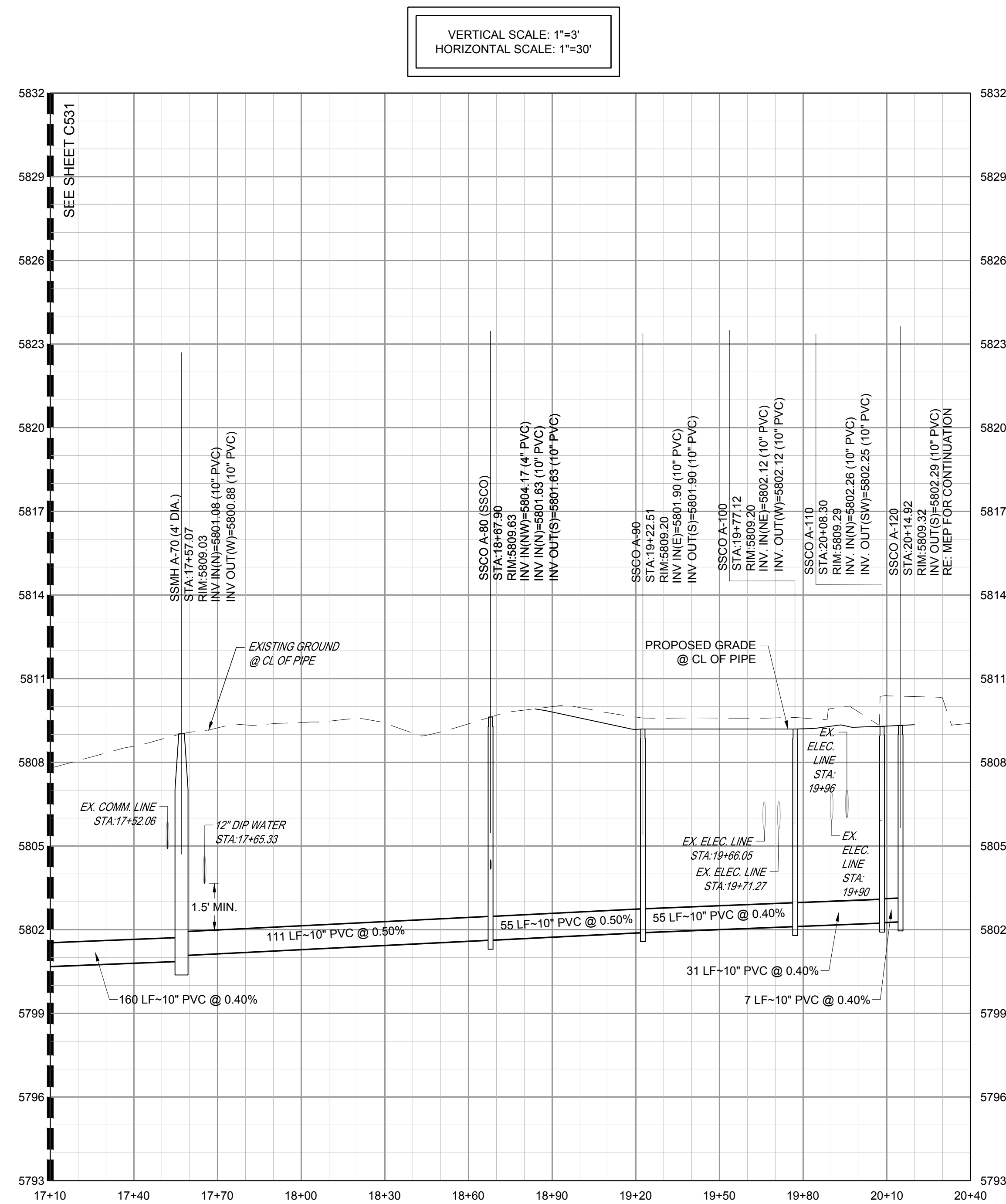
DESIGNED BY: RJH
DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079
DRAWING NUMBER: **C512**

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

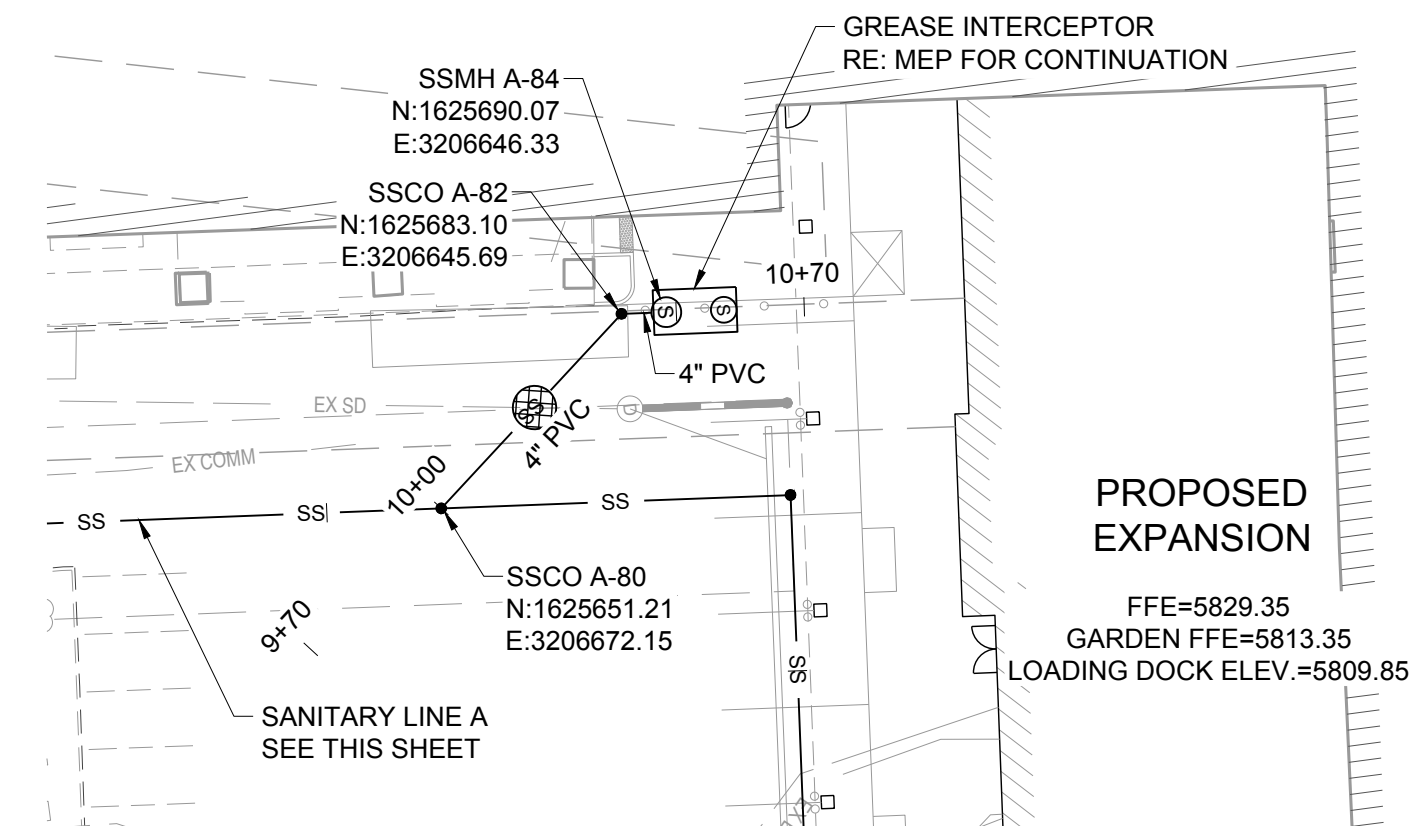
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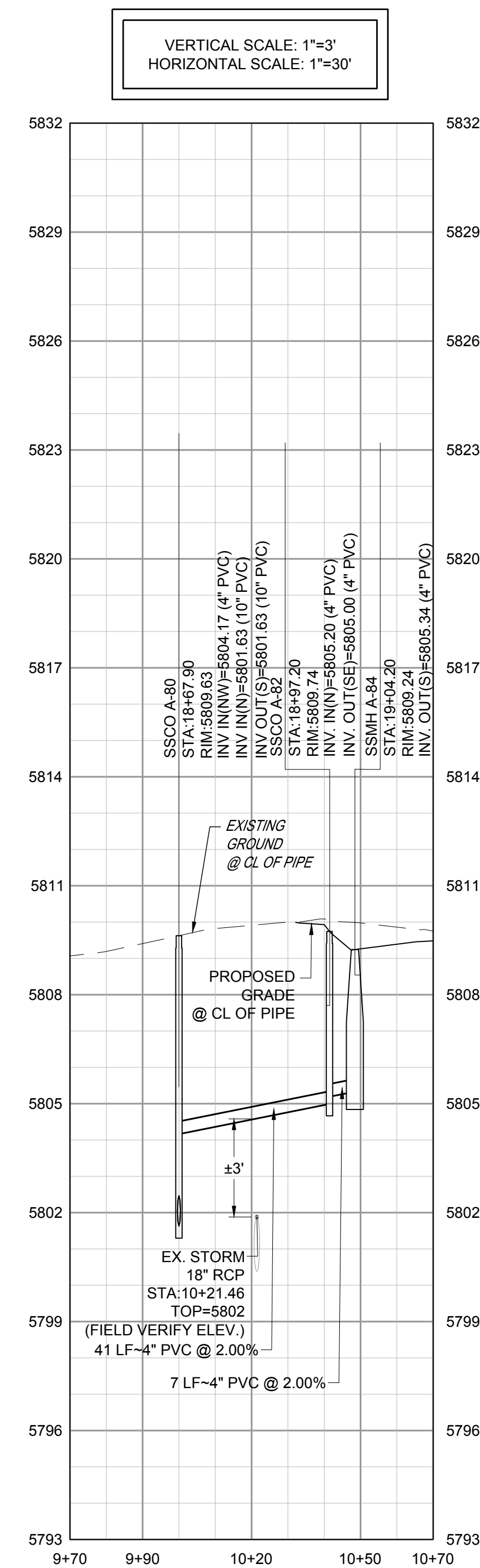
SANITARY LINE A PLAN (CONTINUED)



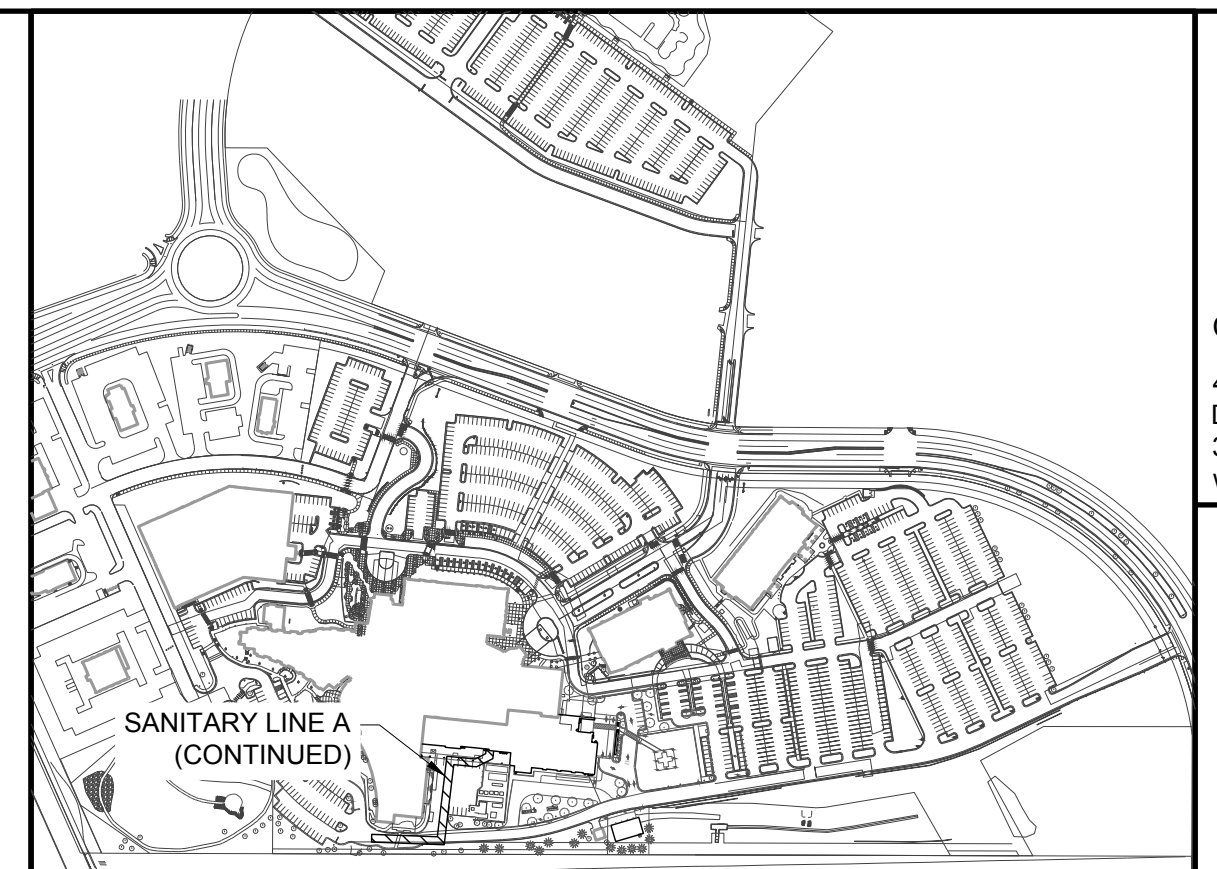
SANITARY LINE A PROFILE (CONTINUED)



SANITARY LINE A-80 PLAN



SANITARY LINE A-80 PROFILE

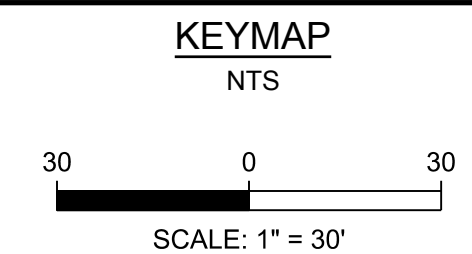


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NOTES:

1. SEE SHEET C501 FOR SANITARY NOTES AND LEGEND.
2. ALL EXISTING DRY UTILITIES ARE ASSUMED TO BE 3' DEEP TO TOP OF PIPE.
3. ALL EXISTING WATER LINES ARE ASSUMED TO BE 4.5' DEEP TO TOP OF PIPE.
4. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICTS IMMEDIATELY.

LEGEND:



UTILITY CROSSING

[illegible]

**ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

SANITARY PLAN AND PROFILE

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DESIGNED BY:	RJH
DRAWN BY:	EDS
CHECKED BY:	MHV
PIRO JOB NO.	23079

DRAWING NUMBER:

C532



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2		08/16/2024	

PROJECT: ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138

DRAWING TITLE: WATER AND SANITARY DETAILS

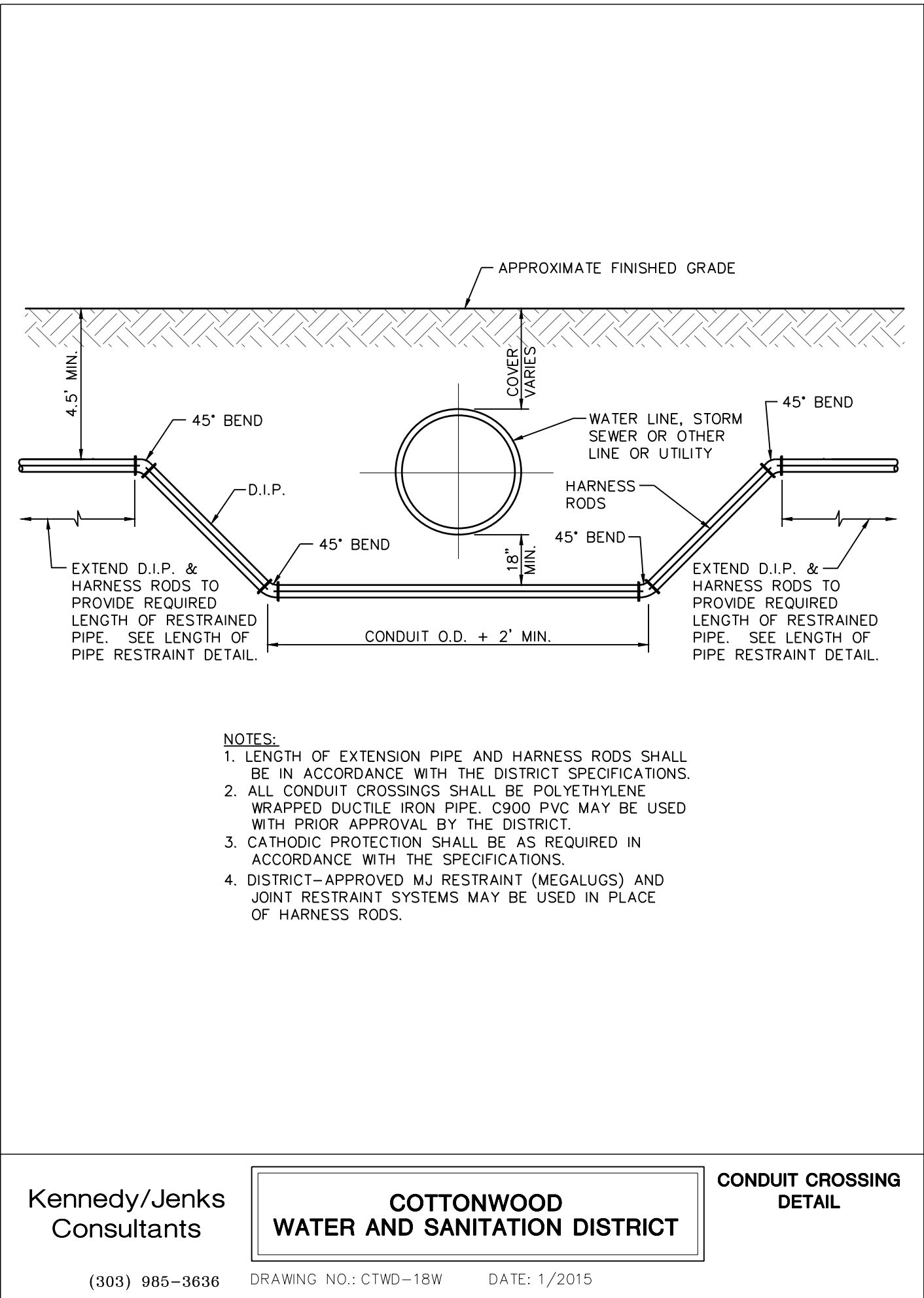
FILE PATH: C:\Users\leda\Documents\A. Miro, Inc.\CivilJobs\23079 AHP Expansion\05 CAD\Plans and Details\C551-WATR-SSEW-DTLS.dwg C553 - 8/16/2024

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CHECKED BY: MHV
MIRO JOB NO. 23079

DRAWING NUMBER:

C553



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COTTONWOOD
WATER AND SANITATION DISTRICT

CONDUIT CROSSING
DETAIL

(303) 985-3636 DRAWING NO.: CTWD-18W DATE: 1/2015

ROD DIAMETER, GRADE & LENGTH OF RESTRAINED PIPE																							
PIPE SIZE	4"			6"			8"			12"			16"			20"			24"				
FITTING	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G		
90° BEND, TEE, PLUG	3/4"	30'	MS	3/4"	45'	MS	3/4"	60'	MS	3/4"	86'	HS	1"	108'	HS	1 1/4"	132'	HS	-	155'	-		
VALVE	3/4"	30'	MS	3/4"	45'	MS	3/4"	60'	MS	3/4"	86'	HS	1"	108'	HS	1 1/4"	132'	HS	-	155'	-		
45° BEND	3/4"	9'	MS	3/4"	13'	MS	3/4"	18'	MS	3/4"	25'	MS	1"	32'	MS	3/4"	39'	HS	-	45'	-		
22 1/2" BEND	3/4"	2'	MS	3/4"	4'	MS	3/4"	5'	MS	3/4"	7'	MS	3/4"	8'	MS	3/4"	10'	MS	-	12'	-		
11 1/4" BEND	3/4"	2'	MS	3/4"	2'	MS	3/4"	2'	MS	3/4"	2'	MS	3/4"	2'	MS	3/4"	3'	MS	-	3'	-		

TEE

PLUG

90° BEND

VALVE

BENDS

NOTES:

1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
2. CLAMPS, RODS & MEGALUGS NOT ALLOWED FOR 24" & LARGER PIPES.
3. D=DIAMETER, L=LENGTH, G=GRADE, MS=MILD STEEL, HS=HIGH STRENGTH.
4. MIN 4.5' GROUND COVER REQD.
5. BASED ON 150 PSI INTERNAL PRESSURE.
6. MS = MILD STEEL ROD ASTM A 36.
7. HS = HIGH STRENGTH ROD ASTM A 193 GRADE B7.
8. NUTS SHALL BE ASTM A 307 GRADE A OR B HEXAGON HEAVY SERIES. HS NUTS SHALL CONFORM TO MS-22.
9. SEE TIE ROD DETAIL DRAWING, ALSO; TIE ROD COUPLING DETAILS, CLAMP DETAILS AND SET CLAMP DETAILS.
10. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
11. LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALUGS.
12. CROSSES MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.
13. 12" AND SMALLER IN LINE VALVES AND TEES SHALL HAVE A MECHANICAL JOINT RESTRAINT DEVICE ON EACH SIDE OF THE FITTING OR VALVE. MECHANICAL JOINT RESTRAINT DEVICE SHALL BE PER MS-2.
14. A SECOND VALVE WILL BE REQD TO BE CLOSED WHEN EXCAVATING NEXT TO A EXIST VALVE.
15. ON PLUGS, TEES AND BENDS KICKBLOCK SHALL BE USED IN ADDITION TO RESTRAINT.
16. WHEN REDUCERS ARE USED ON VALVE INSTALLATIONS THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE NOT THE SIZE OF THE VALVE.

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12" COTTONWOOD
WATER AND SANITATION DISTRICT

LENGTH OF
RESTRAINED PIPE

(303) 985-3636

DRAWING NO.: CTWD-9W

DATE: 1/2015

TEE

PLUG

90° BEND

VALVE

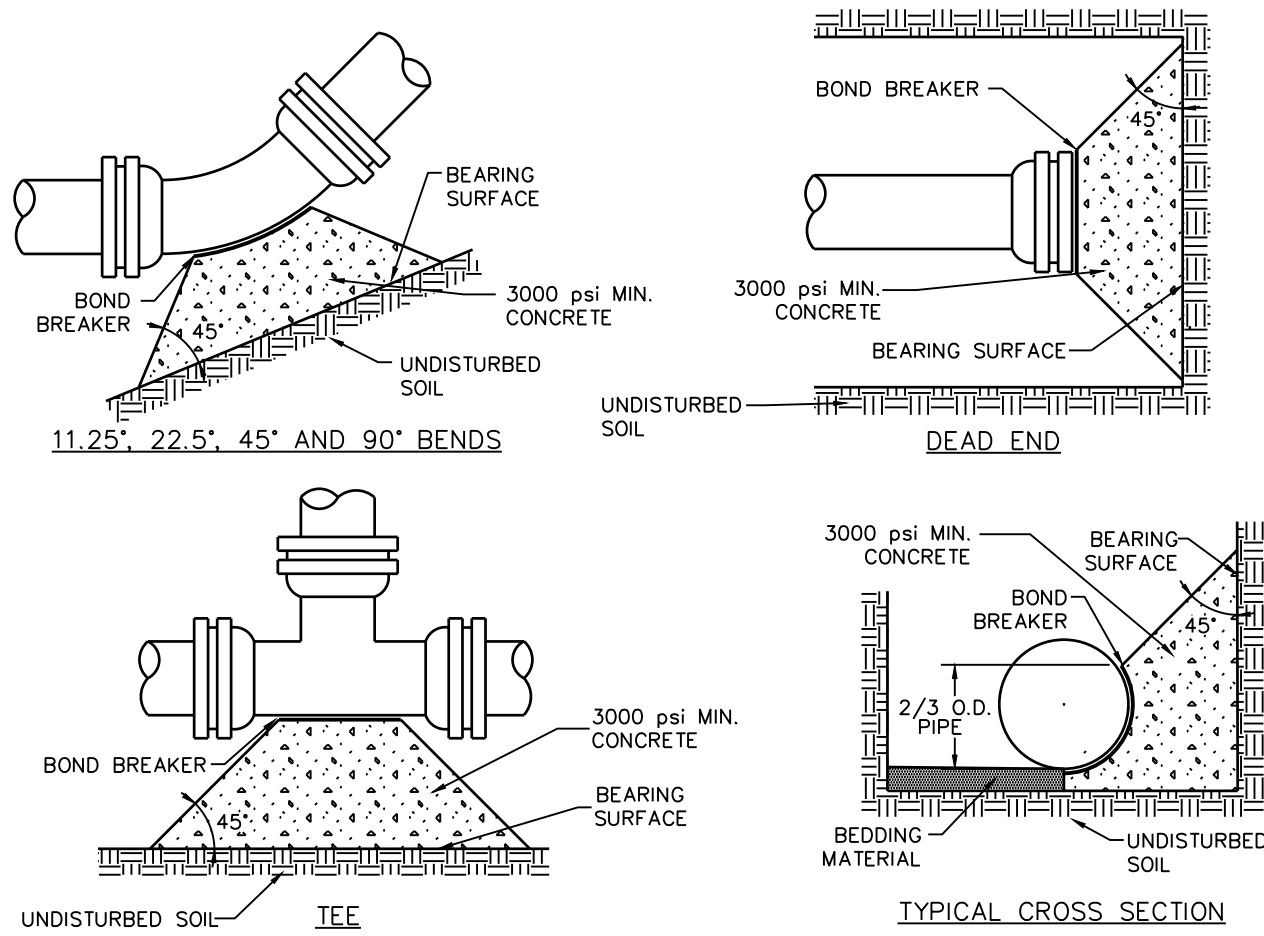
BENDS

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COTTONWOOD
WATER AND SANITATION DISTRICT

LENGTH OF
RESTRAINED PIPE

(303) 985-3636 DRAWING NO.: CTWD-9W DATE: 1/2015



MINIMUM BEARING SURFACE AREA
(IN SQUARE FEET)

SIZE OF PIPE	B E N D S				TEE OR DEAD END
	11.25°	22.5°	45°	90°	
4"	1.00	1.00	1.00	2.00	1.50
6"	1.00	1.25	2.25	4.25	3.00
8"	1.00	2.00	4.00	7.50	5.25
12"	2.25	4.50	8.75	16.00	11.25
16"	3.75	7.50	14.50	27.00	19.00
20"	5.00	10.00	19.50	35.50	25.00
24"	7.00	14.00	27.75	51.00	36.00

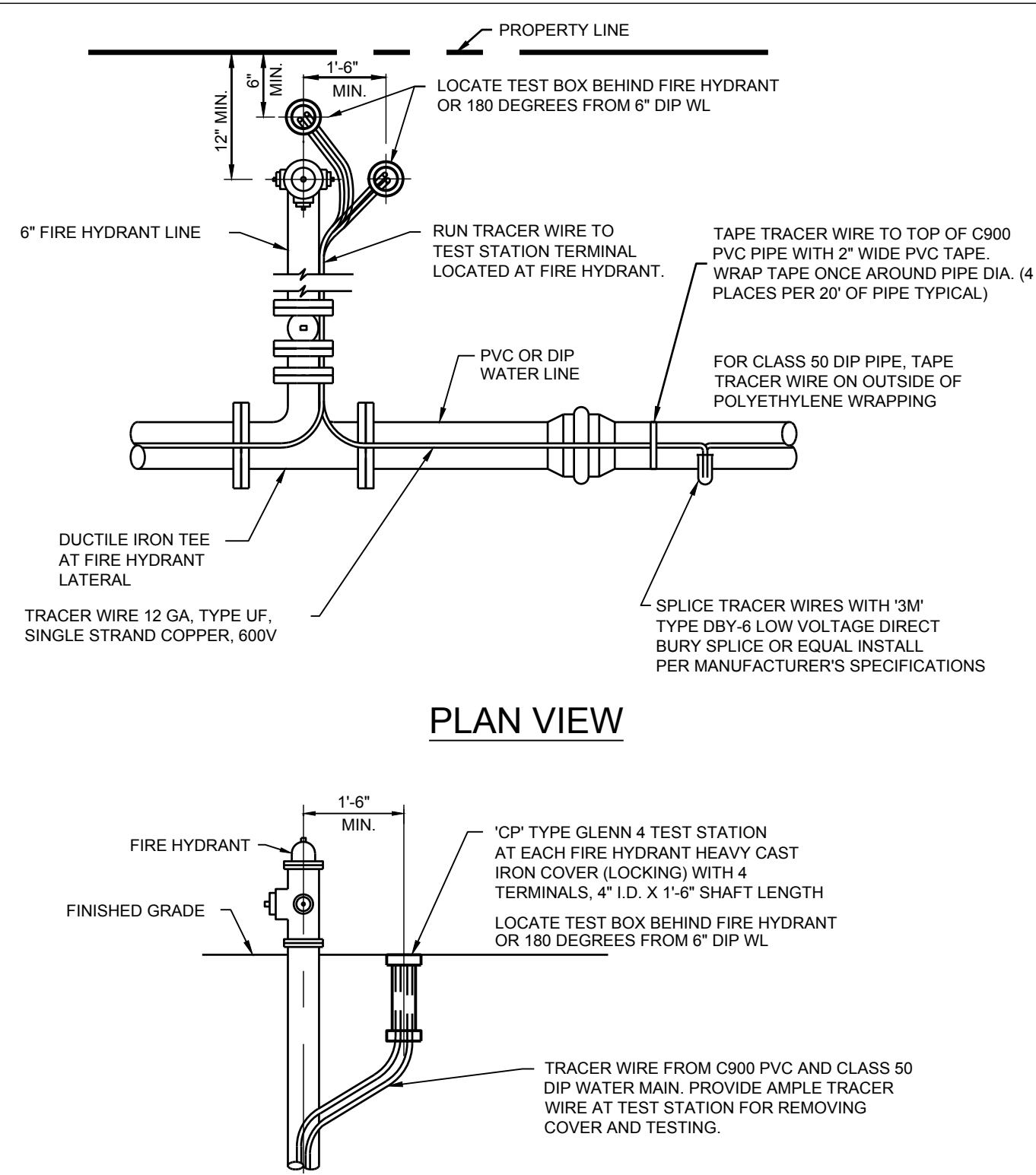
- NOTES:
1. BEARING AREAS SHOWN ON THE CHART ARE MINIMUM AREAS AND ARE DESIGNED USING THE FOLLOWING CRITERIA:
 - 1.1. INTERNAL WORKING PRESSURE OF 150 PSI.
 - 1.2. TRANSIENT (WATER HAMMER) PRESSURE OF 120 PSI FOR 4, 6, AND 8-INCH DIAMETER LINES, 110 PSI FOR 12-INCH LINES, AND 70 PSI FOR 16-INCH AND 20-INCH LINES.
 - 1.3. MINIMUM UNDISTURBED SOIL BEARING CAPACITY OF 3,000 PSI.
 2. ALL SIZES OF BENDS, TEES, AND DEAD ENDS SHALL HAVE KICKBLOCKS.
 3. MECHANICAL JOINT RESTRAINT IS ALSO REQUIRED ON ALL FITTINGS. SEE LENGTH OF PIPE RESTRAINT DETAIL FOR SPECIFIC REQUIREMENTS.
 4. ALL BENDS SHALL BE RESTRAINED.

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COTTONWOOD
WATER AND SANITATION DISTRICT

KICKBLOCK

(303) 985-3636 DRAWING NO.: CTWD-12W DATE: 1/2015



PLAN VIEW

PROFILE

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COTTONWOOD
WATER AND SANITATION DISTRICT

PVC & DIP WATER
MAIN TRACER WIRE
INSTALLATION
DETAIL

(303) 985-3636 DRAWING NO.: CTWD-11W DATE: 1/2015