LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

LOCATED IN THE NORTHEAST QUARTER OF SECTION 34, TOWNSHIP 7 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOWN OF CASTLE ROCK, COUNTY OF DOUGLAS, STATE OF COLORADO
TOWN OF CASTLE ROCK PROJECT NO. CD26-0008

LINETYPE LEGEND

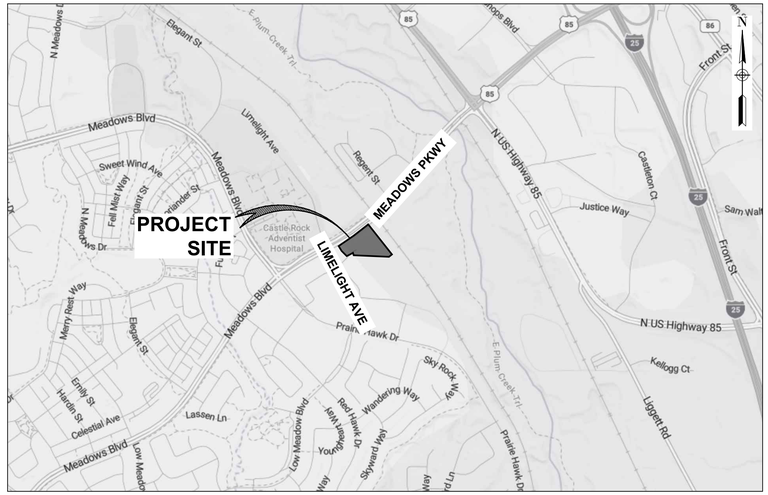
PROPOSED		EXISTING
	AASHTO SIGHT TRIANGLE	
	ACCESSIBLE ROUTE	
CATV CATV	CABLE TV	CATV
	CENTERLINE OF ROAD	
5280	CONTOUR - MAJOR	5280
5279	CONTOUR - MINOR	5279
	DRAINAGE SWALE	
E E	ELECTRIC - UNDERGROUND	E
	EXPOSED FOUNDATION	
X X	FENCE - BARBED WIRE	X
	FENCE - CHAIN LINK	
	FENCE - WOOD POST	
FO FO	FIBER OPTIC LINE	FO
F F F F	FIRE SERVICE	F
G G	GAS LINE	G
	GUARDRAIL	
	HANDRAIL	
IRR IRR	IRRIGATION	IRR
OH OH	OVERHEAD POWER	OH
	PROPERTY BOUNDARY	
	RETAINING WALL	
	RIGHT-OF-WAY LINE	
RD RD	ROOF DRAIN	
	SANITARY SEWER	
	STEM WALL	
	STORM SEWER	
T T	TELEPHONE	T
UD UD UD	UNDERDRAIN	UD UD UD
W W	WATER LINE	W W

SYMBOLS LEGEND

CLEANOUT
CROSSWALK
CURB STOP/ CORP STOP
DOOR
ELECTRIC METER
FIRE DEPARTMENT CONNECTION
FIRE HYDRANT
GAS METER
GATE VALVE
LIGHT POLE
PARKING COUNT PER ROW
PARKING COUNT TOTAL
PARKING METER
ROOF DRAIN
SANITARY MANHOLE
SIGHT DISTANCE TRIANGLE
SLOPE (2.0%)
SPOT ELEVATION (80.00)
STORM INLET
STORM MANHOLE
STREET SIGN
TRANSFORMER
UTILITY POLE
WATER METER

HATCHING LEGEND

ACCESSIBLE RAMP
CONCRETE PAVING
RIPRAP / GRAVEL
SIDEWALK CHASE
TRUNCATED DOMES



VICINITY MAP

SCALE 1" = 1000'

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*SHEETS ARE BY OTHERS AND ARE NOT STAMPED BY THE EOR. SEE INDIVIDUAL SHEETS FOR CERTIFICATIONS

ABBREVIATIONS:

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICE
AC	AIR CONDITIONING UNIT
AE	ACCESS EASEMENT
APPR	APPURTENANCE
ASPH	ASPHALT
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICE
BOP	BOTTOM OF PIPE
BOR	BOTTOM OF RAMP
BOS	BOTTOM OF STAIR
BOW	BACK OF WALK
BW	BOTTOM OF WALL (FG @ WALL FACE)
CAE	CROSS ACCESS EASEMENT
CL	CENTERLINE
CO	CLEANOUT
CON	CONCENTRIC
CONC	CONCRETE
COR	CORNER
DE	DRAINAGE EASEMENT
DI	DUCTILE IRON
DIA	DIAMETER
EAE	EMERGENCY ACCESS EASEMENT
ECC	ECCENTRIC
EG	EXISTING GRADE
EL	ELEVATION
ELEC	ELECTRIC
EM	ELECTRIC METER
ENCL	ENCLOSURE
EOA	EDGE OF ASPHALT
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAN
EOW	EDGE OF WALK
ESMT	EASEMENT
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FF	FINISH FLOOR
FH	FIRE HYDRANT
FG	FINISH GRADE
FL	FLOWLINE
FO	FIBER OPTIC
FT	FEET
GB	GRADE BREAK
GM	GAS METER
GR	GRATE
GRVL	GRAVEL
GS	GARAGE SLAB
GV	GATE VALVE
HC	HANDICAP
HOR	HORIZONTAL
HP	HIGH POINT
IN	INCHES OR INLET
INT	INTERSECTION
INV	INVERT
LIP	LIP OF PAN
LP	LOW POINT
LS	LANDSCAPE
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
NTS	NOT TO SCALE
OC	ON CENTER
PC	POINT OF CURVATURE
PCR	POINT OF CURB RETURN
PED	PEDESTAL
PL	PROPERTY LINE
PP	POWER POLE
PR	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE
RET	RETAINING
REV	REVISION
ROW	RIGHT-OF-WAY
SS	SANITARY SEWER
ST	STORM
STD	STANDARD
SV	SERVICE
SWL	SWALE
SW, SWLK	SIDEWALK
TBC	TOP BACK OF CURB
TELE	TELEPHONE / COMMUNICATIONS
TOB	TOP OF BANK
TOF	TOP OF FOUNDATION
TOP	TOP OF PIPE
TOR	TOP OF RAMP
TOS	TOP OF STAIR
TW	TOP OF WALL
TYP	TYPICAL
UE	UTILITY EASEMENT
UTIL	UTILITY
VB	VERTICAL BEND
VC&G	VERTICAL CURB & GUTTER
VCP	VITRIFIED CLAY PIPE
VLT	VAULT
VERT	VERTICAL
WAT	WATER
WM	WATER METER

INDEMNIFICATION AND ADHERENCE TO STANDARD STATEMENTS

THESE PLANS HAVE BEEN REVIEWED BY THE TOWN OF CASTLE ROCK FOR CONCEPT ONLY. THE REVIEW DOES NOT IMPLY RESPONSIBILITY BY THE REVIEWING DEPARTMENT. THE TOWN ENGINEER, OR THE TOWN OF CASTLE ROCK FOR ACCURACY AND CORRECTNESS OF THE CALCULATIONS. FURTHERMORE, THE REVIEW DOES NOT IMPLY THAT QUANTITIES OF ITEMS ON THE PLANS ARE THE FINAL QUANTITIES REQUIRED. THE REVIEW SHALL NOT BE CONSTRUED FOR ANY REASON AS ACCEPTANCE OF FINANCIAL RESPONSIBILITY BY THE TOWN FOR ADDITIONAL QUANTITIES OF ITEMS SHOWN THAT MAY BE REQUIRED DURING THE CONSTRUCTION PHASE.

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF CASTLE ROCK MUNICIPAL CODE, TECHNICAL MANUALS AND/OR OTHER TWON APPROVED APPLICABLE STANDARDS.

CONTACTS

CIVIL ENGINEER
ROTH LANG ENGINEERING GROUP, LLC
6855 S HAVANA ST, SUITE 600
CENTENNIAL, CO 80112
303-841-9365

TOWN OF CASTLE ROCK
PUBLIC WORKS DEPARTMENT
4175 N. CASTLE ROCK CT
CASTLE ROCK, CO 80109
720-733-2462

CASTLE ROCK WATER
CASTLE ROCK WATER
175 KELLOG CT.
CASTLE ROCK, CO
(720) 733-6000

GAS
BLACK HILLS ENERGY
350 INDIAN ST., STE 400
GOLDEN, CO 80401
303-568-3260

OWNER/DEVELOPER
EDWARD FRANKIE
WESTBRIDGE DEVELOPMENT
312-925-5922

LANDSCAPE ARCHITECT
TIM DUNN
TIM DUNN LANDSCAPE ARCHITECTURE
720-350-2411

ELECTRIC
CORE ELECTRIC COOPERATION
5496 N. U.S. HIGHWAY 85
SEDALIA, CO 80135
303-688-3100

SURVEYOR
ANTHONY PEALL
AZTECH CONSULTANT, INC.
300 EAST MINERAL AVENUE, SUITE 1
LITTLETON, CO 80122
303-713-1898

ILLUMINATION
CRAIG OLSON
JCAA CONSULTING ENGINEERS LLC
4100 WADSWORTH BLVD
WHEAT RIDGE, CO 80033
303-985-3260

TECHNICAL CRITERIA VARIANCE

TCV NO	DESCRIPTION	SUBMITTAL DATE	APPROVAL DATE
TCV26-0019	CR WATER SYSTEM DESIGN 4.4.15.2 CURB STOP IN PAVEMENT	6/18/2026	
TCV26-0020	WATER QUALITY EXCLUSION PER SDDTCM 13.1.5	6/18/2026	7/17/2026

FIELD CHANGE ORDER TABLE

FCO #	DATE	PURPOSE/DESCRIPTION

PROFESSONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

Know what's below. Call before you dig.

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

FLOOD PLAIN NOTE

THIS PROPERTY IS LOCATED WITHIN ZONE X AS PER FEMA FIRM PANEL NO. 08035C0169G, DATED MARCH 16, 2016. NO PORTIONS OF THE PROPERTY ARE LOCATED WITHIN A DESIGNATED 100-YEAR FLOODPLAIN ZONE.

LEGAL DESCRIPTION

LOT 6-A-1A-1, THE MEADOWS FILING NO. 17, AREA NO. 4, AMENDMENT NO. 19 IN THE NORTHEAST QUARTER OF SECTION 34, TOWNSHIP 7 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF DOUGLAS, STATE OF COLORADO

BENCHMARK

DOUGLAS COUNTY CONTROL POINT #3.011025 (AZTEC #912). RECOVERED A 3" BRASS CAP LOCATED 220' MORE LESS EAST AUBURN DR., 200' MORE OR LESS WEST OF THE END OF ATCHISON CT. AND 80' MORE OR LESS NORTH OF WATER TANK FENCE.

BASIS OF BEARINGS

BEARINGS ARE BASED ON THE WEST LINE OF SAID SECTION 34, TOWNSHIP 7 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE NORTHWEST CORNER BY A NO. 6 BAR WITH 3.25" ALUMINUM CAP STAMPED "AZTEC PLS 38064 2014" AND AT THE SOUTHWEST CORNER BY A NO. 6 REBAR WITH 2.5" ALUMINUM CAP STAMPED "ARCHER & ASSOC. LS 6935 1998", ASSUMED TO BEAR N 89°27'31",W 2,657.54 FEET.

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
COVER SHEET

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKIE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C0.00
1 of 44

Plotted by: Jacob Hueselton Date: 7/20/2026 3:44 PM
File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C0.00 - COVER SHEET.dwg

TOWN OF CASTLE ROCK GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TOWN OF CASTLE ROCK (TCR) MUNICIPAL CODE, TCR TECHNICAL MANUALS, AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE TECHNICAL MANUALS OR ANY APPLICABLE STANDARDS, THE MORE STRINGENT STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.
3. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TOWN AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOURS NOTICE TO THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, PRIOR TO MAKING ANY CONNECTIONS/TIE-INS TO EXISTING WATER, SANITARY SEWER, AND/OR STORM SEWER SYSTEMS PROVIDED THAT THE UTILITY TIE-IN DOES NOT DISRUPT SERVICE TO EXISTING CR WATER CUSTOMERS. IF THE TIE-IN WILL DISRUPT UTILITY SERVICE, THEN CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WEEKS NOTICE TO THE TCR CONSTRUCTION INSPECTOR TO ALLOW TIME FOR CR WATER TO PROVIDE WRITTEN NOTIFICATION TO EXISTING CUSTOMERS AFFECTED BY THE TIE-IN. ALL TOWN UTILITY TIE-INS MUST BE APPROVED BY CR WATER PRIOR TO COMMENCING WORK.
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE CRITERIA AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ONSITE AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
8. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE TCR CONSTRUCTION INSPECTOR IMMEDIATELY.
9. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD UNLESS SPECIFICALLY STATED OTHERWISE.
10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH MUTCD TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY (TOWN, COUNTY OR STATE) FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR AS DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED UNLESS SPECIFICALLY NOTED OTHERWISE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE AND AVAILABLE TO THE TCR CONSTRUCTION INSPECTOR AT ALL TIMES.
13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTANT ENGINEER FOR CLARIFICATION AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
14. ALL INITIAL SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PER THE TEMPORARY EROSION & SEDIMENT CONTROL (TESC) PLAN PRIOR TO ANY EARTH-DISTURBING ACTIVITY. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION AT ALL TIMES. REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO CONSTRUCTION GENERAL PERMIT FOR STORMWATER DISCHARGES.
15. THE CONTRACTOR SHALL PROVIDE AN ACTION PLAN IMMEDIATELY FOLLOWING THE PRE-CONSTRUCTION MEETING DETAILING SUFFICIENT MEANS TO MITIGATE DUST ON SITE DURING OVERLOT GRADING, ROCK CRUSHING OR OTHER EARTHWORK ACTIVITIES. IF THE CONTRACTOR FAILS TO CONTROL DUST, ALL EARTH DISTURBING ACTIVITIES SHALL BE STOPPED UNTIL SUFFICIENT MEASURES ARE TAKEN TO THE TOWN'S SATISFACTION. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO AIR QUALITY REGULATIONS FOR LAND DEVELOPMENT, AS REQUIRED.
16. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.
17. THERE SHALL BE NO SITE CONSTRUCTION ACTIVITIES ON SATURDAYS UNLESS SPECIFICALLY APPROVED BY THE TCR CONSTRUCTION INSPECTOR AND NO SITE CONSTRUCTION ACTIVITIES ON SUNDAYS OR HOLIDAYS UNLESS THERE IS PRIOR WRITTEN APPROVAL BY THE PUBLIC WORKS DIRECTOR.
18. NO SOLID OBJECT (EXCLUDING FIRE HYDRANTS AND TRAFFIC CONTROL DEVICES AND TRAFFIC SIGNS) EXCEEDING THIRTY(30) INCHES IN HEIGHT ABOVE THE FLOWLINE ELEVATION OF THE ADJACENT STREET, INCLUDING BUT NOT LIMITED TO BUILDINGS, UTILITY CABINETS, WALLS, FENCES, LANDSCAPE PLANTINGS, CROPS, CUT SLOPES, AND BERMS, SHALL BE PLACED WITHIN SIGHT DISTANCE LINES AND SIGHT DISTANCE EASEMENTS.
19. THIS PROPERTY IS LOCATED WITHIN ZONE X AS PER FEMA FIRM PANEL NO. 08035C0169G, DATED MARCH 16, 2016. NO PORTIONS OF THE PROPERTY ARE LOCATED WITHIN A DESIGNATED 100-YEAR FLOODPLAIN ZONE.
20. BENCHMARK: DOUGLAS COUNTY CONTROL POINT #3.011025 (AZTEC #912). RECOVERED A 3" BRASS CAP LOCATED 220' MORE LESS EAST AUBURN DR., 200' MORE OR LESS WEST OF THE END OF ATCHISON CT. AND 80' MORE OR LESS NORTH OF WATER TANK FENCE.
21. BASIS OF BEARINGS: BEARINGS ARE BASED ON THE WEST LINE OF SAID SECTION 34, TOWNSHIP 7 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE NORTHWEST CORNER BY A NO. 6 BAR WITH 3.25" ALUMINUM CAP STAMPED "AZTEC PLS 38064 2014" AND AT THE SOUTHWEST CORNER BY A NO. 6 REBAR WITH 2.5" ALUMINUM CAP STAMPED "ARCHER & ASSOC. LS 6935 1998", ASSUMED TO BEAR N 89°27'31",W 2,657.54 FEET.

STREET CONSTRUCTION NOTES:

1. ALL STREET CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE STREET CONSTRUCTION NOTES LISTED HERE.
2. A PAVING SECTION DESIGN, SIGNED AND SEALED BY A COLORADO REGISTERED PROFESSIONAL ENGINEER, MUST BE SUBMITTED TO THE TCR PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO ANY STREET CONSTRUCTION ACTIVITY (FULL-DEPTH ASPHALT SECTIONS ARE NOT PERMITTED AT A DEPTH GREATER THAN 8" ASPHALT). THE JOB MIX SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF ANY ASPHALT.
3. WHERE PROPOSED PAVING ADJOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT A MINIMUM DISTANCE OF 12" FROM THE EXISTING EDGE TO CREATE A CLEAN CONSTRUCTION JOINT. THE DEVELOPER SHALL BE REQUIRED TO REMOVE EXISTING PAVEMENT TO A DISTANCE WHERE A CLEAN CONSTRUCTION JOINT CAN BE MADE.
4. STREET SUBGRADES SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RE-COMPACTED PRIOR TO SUB-BASE INSTALLATION. NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED AND APPROVED BY THE TCR CONSTRUCTION INSPECTOR.
5. VALVE BOXES ARE TO BE BROUGHT UP TO GRADE AT THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.

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

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

RLEG GENERAL NOTES:

1. UNLESS OTHERWISE MODIFIED HEREIN, ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE GOVERNING MUNICIPALITY, DISTRICT, AGENCY OR ENTITY. IF THE GOVERNING MUNIPALITY, DISTRICT, AGENCY OR ENTITY DOES NOT HAVE A STANDARD, AN APPLICABLE STANDARD FROM THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARDS (M &S STANDARDS, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION) SHALL BE ADHERED TO. FURTHER ALL OTHER APPLICABLE STATE AND FEDERAL REGULATIONS ARE TO BE FOLLOWED. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS OR REGULATIONS, THE MOST RESTRICTIVE STANDARD SHALL APPLY.
2. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
3. EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED UPON THE BEST INFORMATION AVAILABLE AS SUPPLIED BY SURFACE EVIDENCE AND UTILITY COMPANY MAPS. UTILITIES THAT EXIST MAY NOT BE SHOWN HEREIN. THE SIZE, LOCATION, TYPE AND NUMBER OF UTILITY SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND NOTIFICATION OF ANY DISCREPANCY SHALL BE MADE TO THE OWNER AND ENGINEER BEFORE ANY OTHER WORK IS PERFORMED.
4. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING EXCAVATION OR GRADING, TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. OTHER UNREGISTERED UTILITY ENTITIES (I.E. DITCH / IRRIGATION COMPANY) ARE TO BE LOCATED BY CONTACTING THE RESPECTIVE REPRESENTATIVE. UTILITY SERVICE LATERALS ARE ALSO TO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED.
6. A STATE CONSTRUCTION DEWATERING WASTEWATER DISCHARGE PERMIT IS REQUIRED IF DEWATERING IS REQUIRED IN ORDER TO INSTALL UTILITIES OR WATER IS DISCHARGED INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF JOB SITE SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
8. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE DESIGNER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
9. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE DEVELOPER SHALL CONTACT THE DESIGNER AND THE LOCAL ENTITY ENGINEER IMMEDIATELY.
10. THE CONTRACTOR SHALL REFER TO AN APPROVED GEOTECHNICAL STUDY FOR ADDITIONAL INFORMATION PERTAINING TO THE SITE CONSTRUCTION, MATERIALS AND PAVEMENTS.
11. CONTRACTOR SHALL REFER TO THE APPROVED EROSION CONTROL MANAGEMENT PLAN FOR IMPLEMENTATION OF BEST MANAGEMENT PRACTICES TO MINIMIZE OR ELIMINATE EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.

SIGNAGE AND STRIPING NOTES:

1. ALL SIGNAGE AND STRIPING IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE SIGNAGE AND STRIPING NOTES LISTED HERE.
2. ALL PAINT SHALL BE 15 MIL THICK UPON INSTALLATION, AND 8 MIL THICK WHEN DRY.
3. ALL PERMANENT LONGITUDINAL PAVEMENT STRIPING ON ASPHALT SURFACES (CENTERLINES, LANE LINES, BAY LINES, ETC.) SHALL BE INSTALLED USING AN APPROVED REFLECTIVE TRAFFIC PAINT OR PAVEMENT MARKING TAPE. REFLECTIVE BEADS SHALL BE APPLIED IN ACCORDANCE WITH CDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUFACTURER'S REQUIREMENTS. WHEN TAPE IS USED ON AN ASPHALT STREET, IT SHALL BE "ROLLED" INTO THE FINAL LIFT. ON CONCRETE SURFACES TAPE SHALL BE UTILIZED WITH A CONTRASTING BLACK EDGE AND GROOVED INTO THE PAVEMENT.
4. THERMO-PLASTIC APPLICATIONS SHALL BE AS SPECIFIED IN THE PLANS AND/OR PER TOWN CRITERIA.
5. ALL SURFACES THAT ACCEPT PAINT/THERMO-PLASTIC STRIPING OR PRE-FORMED MARKINGS SHALL BE FIRST SANDBLASTED AND THOROUGHLY CLEANED PRIOR TO INSTALLATION OF STRIPING OR MARKINGS.
6. ALL ARROW MARKINGS SHALL BE PRE-FORMED TAPE, THERMO-PLASTIC OR EPOXY-PAINTED.
7. STOP BARS SHALL BE 90 MIL THERMO-PLASTIC.
8. ALL ROADWAY SIGNAGE SHALL CONFORM TO THE MUTCD AND/OR THE TOWN'S CRITERIA.
9. ALL SIGNPOSTS SHALL UTILIZE BREAKAWAY ASSEMBLIES AND FASTENERS, PER THE TCR STANDARD DETAIL.

FIRE NOTES:

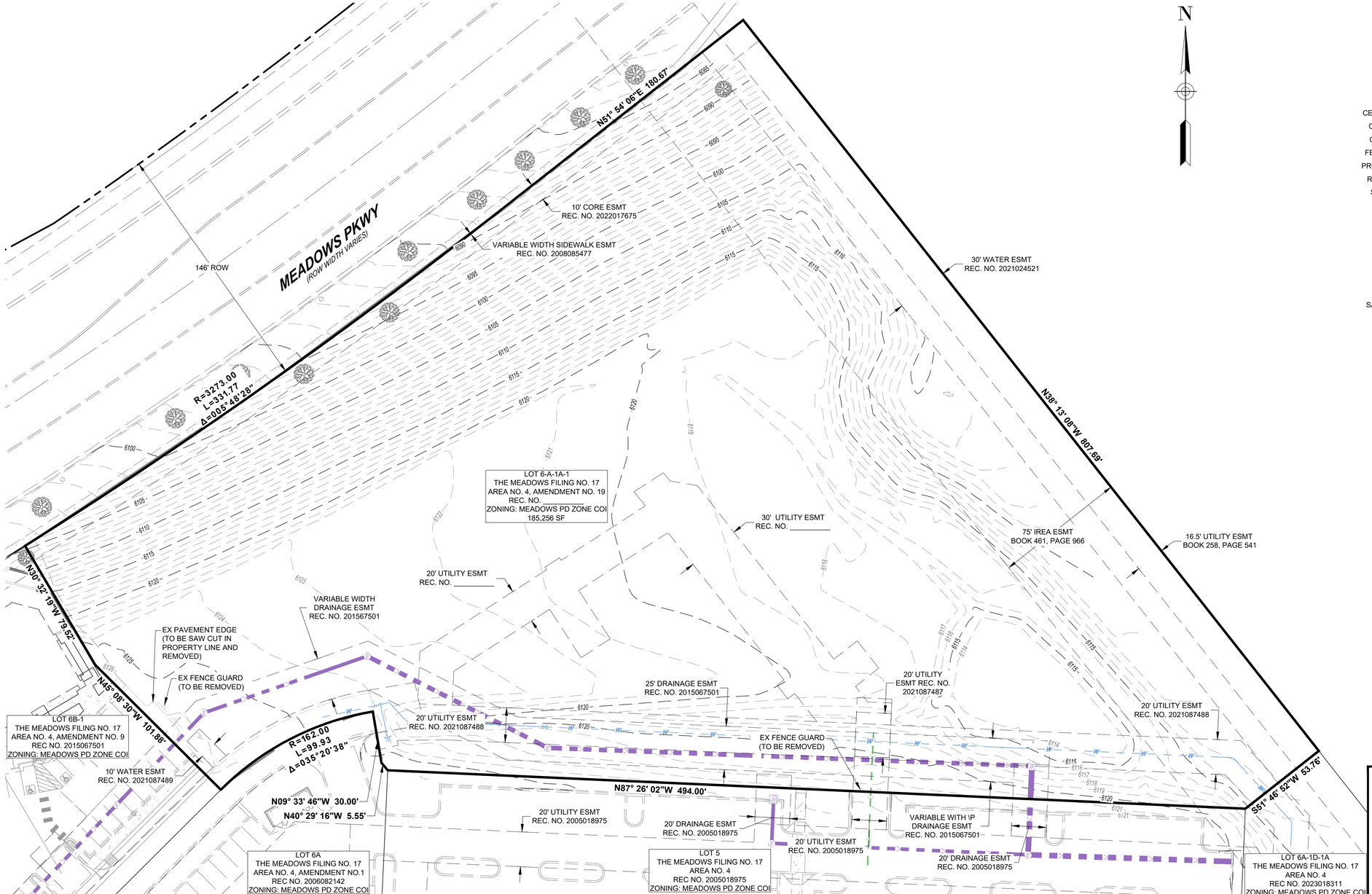
1. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN DRIVE LANES FOR EMERGENCY VEHICLE INGRESS AND EGRESS, INCLUDING SNOW REMOVAL.
2. EMERGENCY VEHICLE ACCESS ROAD IS REQUIRED TO ALLOW ACCESS WITHIN 150' OF ALL EXTERIOR OF THE BUILDING BY AN APPROVED ROUTE.
3. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRES APPARATUS AND SHALL BE PROVIDED WITH A SURFACE SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES. ACCESS ROAD SHALL BE EITHER CONCRETE, ASPHALT, OR OTHER APPROVED ALTERNATIVE MATERIAL ACCOMPANIED WITH AN ENGINEER'S STAMP STATING THE MATERIAL WILL SUPPORT A 75,000 POUND IMPOSED LOAD.
4. FIRE HYDRANT(S) ARE REQUIRED TO BE INSTALLED AND MADE SERVICEABLE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ONTO THE SITE AND DURING THE TIME OF VERTICAL CONSTRUCTION.
5. "NO PARKING FIRE LANE" SIGNS ARE REQUIRED IN AREAS THAT MEET THE FOLLOWING CRITERIA AND IN AREAS DESIGNATED BY THE FIRE PREVENTION BUREAU. SIGNS SHALL BE POSTED ON BOTH SIDES OF FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS AND DRIVEWAYS LESS THAN 26 FEET WIDE. SIGNS SHALL BE POSTED ON ONE SIDE ONLY OF FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS OR DRIVEWAYS BETWEEN 26 FEET WIDE AND 32 FEET WIDE. NO SIGNAGE IS REQUIRED FOR ACCESS ROADWAY FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS OR DRIVEWAYS EXCEEDING 32 FEET WIDE.
6. WHEN FIRE APPARATUS ACCESS ROADS OR A WATER SUPPLY FOR FIRE PROTECTION IS REQUIRED TO BE INSTALLED, SUCH PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ONTO THE SITE AND THE BUILDING CONSTRUCTION GOING VERTICAL.
7. TRACER WIRE SHALL BE INSTALLED ON ALL FIRE SERVICE LINES AND AT ALL FIRE HYDRANTS. REFER TO TOWN OF CASTLE ROCK STANDARD DETAILS, THE WATER LINE CONSTRUCTION NOTES, AND THE TRACER WIRE INSTALLATION NOTES LISTED HEREIN.

STORM DRAINAGE CONSTRUCTION NOTES:

1. ALL STORM DRAINAGE CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE STORM DRAINAGE CONSTRUCTION NOTES LISTED HERE.
2. ALL STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE (RCP) PER ASTM C76, CL III INSTALLED WITH FLEXIBLE PLASTIC (BITUMEN) GASKETS, ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES. ANY STORM DRAINAGE PIPE UNDER A PROPOSED OR FUTURE TRAFFIC AREA SHALL BE RCP CL III AS A MINIMUM. RCP TO BE JACKED SHALL BE CL-V AS A MINIMUM.
3. ALL STORM DRAINAGE PIPES SHALL HAVE A MINIMUM COVER OF 24" UNLESS LOAD CALCULATIONS ARE PROVIDED. UNDER NO CIRCUMSTANCES WILL ANY PIPE HAVE LESS THAN 18" COVER FROM THE FINISH SURFACE TO THE OUTSIDE WALL OF THE PIPE.
4. ALL STORM DRAINAGE PIPES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL SD-2.
5. ALL STORM DRAINAGE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES AND IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. ALL EXCAVATION OPERATION SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL MANHOLE RIM ELEVATIONS GIVEN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL SET THE FINAL RIM ELEVATION BASED ON THE COMPLETED FINISH SURFACE.
7. ALL STORM DRAINAGE PIPES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10' FROM ALL WATER LINES. WHERE LINES CROSS, THERE SHALL BE A MINIMUM OF 18" CLEAR VERTICAL SEPARATION.
8. ALL INLETS AND MANHOLES SHALL BE PLACED ON A MINIMUM OF 1' OF $^3/_4$" WASH ROCK. IF ADDITIONAL SUBGRADE IS DISTURBED, EXCAVATION SHALL BE BACKFILLED WITH $^3/_4$" WASH ROCK OR OTHER APPROVED STRUCTURAL SOIL COMPACTED TO 95% OF ASTM D698 UNLESS OTHERWISE INSTRUCTED BY THE INSPECTOR.
9. LANDSCAPE DRAINS (18" SQUARE OR SMALLER) SHALL BE NDS CATCH BASINS WITH ADA COMPLIANT GRATES THAT MEET HS-20 LOADING OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

WATERLINE CONSTRUCTION NOTES:

1. ALL WATER LINE CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THE COVER SHEET OF THESE PLANS AS WELL AS THE WATER LINE CONSTRUCTION NOTES LISTED HEREIN.
2. ALL WATER LINES SHALL BE: 1) DUCTILE IRON PIPE (DIP), CONFORMING TO THE REQUIREMENTS OF AWWA C150, CL350 (6"-12"), CL250 (16"AND 20"), CL200 (>24"), WITH PUSH-ON GASKETED JOINTS OR MECHANICAL JOINT ENDS, IN CONFORMANCE WITH AWWA C111. PIPE SHALL BE CEMENT-LINED IN ACCORDANCE WITH AWWA C104, AND AN EXTERIOR COATING IN ACCORDANCE WITH C151; OR 2) PVC PIPE, CONFORMING TO AWWA C900 FOR PIPE SIZES 8" AND 12", CL305 (DR14) AND AWWA C905 FOR PIPE SIZE OF 16", CL235 (DR18). MINIMUM DISTRIBUTION MAIN SIZE SHALL BE 8". WATER LINES THAT ARE 10", 14", AND 18" IN DIAMETER ARE NOT PERMITTED.
3. WATER LINE FITTINGS SHALL BE DIP CONFORMING TO AWWA C153 OR C110 AND SHALL HAVE A PRESSURE RATING NOT LESS THAN THE PIPE. ALL FITTINGS SHALL BE MECHANICAL JOINT, UNLESS APPROVED BY CASTLE ROCK WATER.
4. ALL DIP AND FITTINGS SHALL BE ENCASED IN POLYETHYLENE TO PREVENT CORROSION. POLYETHYLENE WRAP, TAPE AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C105.
5. GATE VALVES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AWWA C509-1 AND AWWA C515-01, AS APPROPRIATE, AND SHALL BE DUCTILE IRON BODY AND BONNET, RESILIENT-SEATED WEDGE GATE, NON-RISING STEM TYPE, O-RING SEALS, AND SLIP-ON CONNECTIONS (TAPPING VALVES, WHERE ALLOWED, SHALL BE FLANGE X MJ). VALVE ENDS SHALL BE MECHANICAL JOINT, UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE VALVES SHALL BE SUITABLE FOR A WORKING PRESSURE OF 200 PSI. THEY SHALL BE CLOSED BY TURNING CLOCKWISE AND SHALL HAVE TWO-INCH SQUARE CAST IRON OPERATING NUTS WITH AN ARROW CAST IN THE NUT INDICATING THE DIRECTION OF OPENING. VALVES SHALL BE POLYETHYLENE WRAPPED IN ACCORDANCE WITH AWWA C105. THEY SHALL BE OF SUCH DESIGN AS TO MAINTAIN THE FULL AREA OF THE PIPE THROUGH THE VALVE. THEY SHALL BE DESIGNED TO TAKE FULL PRESSURE ON EITHER FACE. VALVE SHALL HAVE TYPE 304 STAINLESS STEEL BONNET BOLTS AND NUTS AND TYPE 304 STAINLESS STEEL O-RING GLAND BOLTS AND NUTS. VALVES SHALL BE MANUFACTURED BY AMERICAN FLOW CONTROL, KENNEDY OR MUELLER AND SHALL HAVE THE MANUFACTURER'S NAME OR INITIALS AND THE PRESSURE RATING CAST ON THE BODY.
6. ALL FIRE HYDRANTS SHALL BE "PACER WB67-250" BY WATEROUS CO. OR "SUPER CENTURION 250" BY MUELLER CO., ORIENTING TO THE LEFT. REFER TO TCR STANDARD DETAIL W-11.
7. ALL WATER LINES SHALL BE BURIED AN ABSOLUTE MINIMUM OF 5 FEET FROM FINAL GRADE TO THE TOP OF THE WATER MAIN. THE MAXIMUM BURY DEPTH SHALL BE 6 FEET, UNLESS ADDITIONAL DEPTH IS REQUIRED FOR UTILITY CROSSINGS OR OTHER CONFLICTS. WHEREVER SUCH CROSSINGS OR CONFLICTS OCCUR, THE TCR STANDARD DETAIL W-17 SHALL BE USED.
8. ALL WATER LINES SHALL BE BEDDED IN ACCORDANCE WITH TCR STANDARD DETAIL W-21.
9. CONTRACTOR SHALL MAINTAIN A MINIMUM 18-INCH VERTICAL CLEARANCE AND 10-FOOT HORIZONTAL CLEARANCE EDGE-TO-EDGE BETWEEN ALL WATER LINES AND ANY OTHER PIPED UTILITIES.
10. ALL BENDS, TEES, FIRE HYDRANTS AND PLUGS AT DEAD-END MAINS SHALL BE RESTRAINED FROM THRUST BY USING MEGALUG RESTRAINTS PER TCR STANDARD DETAIL W-18 IN COMBINATION WITH CONCRETE THRUST BLOCKS PER TCR STANDARD DETAIL W-22.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL FIRE HYDRANTS AND VALVE BOXES TO FINISH GRADE IN ACCORDANCE WITH TCR STANDARD DETAILS W-10 AND W-11.
12. PRIOR TO CONNECTING TO THE TOWN'S EXISTING WATER SYSTEM, ALL NEW WATERLINES AND/OR SEGMENTS OF WATERLINES SHALL BE DISINFECTED, PRESSURE TESTED, AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH SECTION 450.5 OF THE TOWN OF CASTLE ROCK CONSTRUCTION METHODOLOGY AND MATERIALS MANUAL; AWWA C651-14 AND C600-5.2; AND DETAILS W-35A AND/OR W-35B. PLEASE NOTE THAT THIS DISINFECTION AND TESTING WILL BE PERFORMED WHILE THE NEW WATERLINES AND/OR SEGMENTS OF WATERLINES ARE NOT PHYSICALLY CONNECTED TO THE TOWN'S EXISTING WATER SYSTEM. TOWN AND CONTRACTOR SHALL FURNISH MATERIALS AS SHOWN ON DETAILS W-35A AND/OR W-35B. CONTRACTOR SHALL PERFORM ALL PROCEDURES FOR TESTING, FLUSHING AND DISINFECTING OF ALL WATER LINES. TESTING SHALL BE DONE IN THE PRESENCE OF THE TCR CONSTRUCTION INSPECTOR. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY-TWO (72) HOUR NOTICE TO, AND OBTAIN APPROVAL FROM THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720)733 - 2200, PRIOR TO DISINFECTION, PRESSURE TESTING, AND BACTERIOLOGICAL TESTING OF ANY NEW WATERLINES AND/OR SEGMENTS OF WATERLINES.
13. DISTANCES FOR WATER LINES ARE HORIZONTAL DISTANCE FROM THE CENTER OF THE FITTING TO CENTER OF THE FITTING OF THE PIPE, DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND FITTING DIMENSIONS.
14. ALL DOMESTIC WATER SERVICE LINES SHALL BE TYPE K COPPER INSULATED WITH POLYWRAP, FROM THE MAIN TO THE METER. THE WATER METER SHALL BE SUPPLIED BY THE TOWN AND INSTALLED BY THE CONTRACTOR. THE WATER METER WILL BE AVAILABLE FOR PICK UP AT CASTLE ROCK WATER. THE INDIVIDUAL PICKING UP THE WATER METER MUST HAVE PROOF OF A PERMIT AND MUST HAVE PAID ALL FEES ASSOCIATED WITH THE WATER METER.
15. WATER LINE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. FOR ALL EXCAVATION OPERATIONS, SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
16. WATER LINES SHALL BE ALIGNED 6 FEET OFF THE NORTH AND EAST GUTTER FLOW LINES OF PUBLIC STREETS WHEREVER POSSIBLE. SEE DETAIL W-13.
17. WHERE WATER LINE IMPSTAVEMENTS ARE DIFFICULT TO LOCATE ON THE SURFACE, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL PERMANENT WATER LINE MARKERS, IN ACCORDANCE WITH TCR STANDARD DETAIL W-23, OR AT THE DISCRETION OF THE TCR CONSTRUCTION INSPECTOR.
18. TRACER WIRE SHALL BE USED ON ALL DIP AND PVC WATER MAINS, AND WARNING TAPE SHALL BE PLACED 1 FOOT ABOVE ALL DIP AND PVC PIPE. REFER TO TOWN OF CASTLE ROCK STANDARD TRACER WIRE REQUIREMENTS, IN THESE GENERAL NOTES. TEST STATIONS SHALL BE CONSTRUCTED PER STANDARD DETAIL W-28.
19. THE MINIMUM DISTANCE BETWEEN TEES, CROSSES, VALVES, AND BENDS SHALL BE 10 FEET WHEREVER POSSIBLE.
20. MAXIMUM DEFLECTION FOR WATER MAINS SHALL NOT EXCEED ONE-HALF OF THE MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION OR 2.5 DEGREES, WHICHEVER IS LESS.
21. ALL RESIDENTIAL WATER SERVICE LINES SHALL BE CONSTRUCTED PERPENDICULAR TO THE FRONT PROPERTY LINE IN CONFORMANCE WITH THE TOWN OF CASTLE ROCK WATER SYSTEM DESIGN CRITERIA MANUAL, AND WATER DETAILS.
22. THE MAXIMUM DEFLECTION OF DOMESTIC WATER SERVICE LINES AND IRRIGATION LINES SHALL NOT EXCEED THE MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION.
23. THE SIZE OF THE IRRIGATION TAP, LINE, METER AND BACKFLOW PREVENTION ASSEMBLY SHALL BE THE SAME TO A MINIMUM DISTANCE OF 10 PIPE DIAMETERS PAST THE WINTERIZATION TEE.
24. THE MINIMUM HORIZONTAL SEPARATION BETWEEN UTILITY LINES CARRYING THE SAME MATERIAL (E.G., WATER AND WATER) SHALL BE 5 FEET.
25. WHEN INSTALLING CUT IN TEES OR OTHER APPURTENANCES ON/IN AN EXISTING WATER LINE, THE PIPE MATERIAL BETWEEN THE EXISTING WATER LINE AND THE CUT IN TEE OR OTHER APPURTENANCE SHALL REMAIN CONSISTENT.
26. CONTRACTOR IS RESPONSIBLE TO PROVIDE BACKFLOW PREVENTION DOWNSTREAM OF THE METER. ACCEPTABLE BACKFLOW PREVENTION ASSEMBLIES ARE AS FOLLOWS:
    - COMMERCIAL POTABLE WATER SERVICE: REDUCED PRESSURE ASSEMBLY.
    - RESIDENTIAL POTABLE WATER S



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LINETYPE LEGEND

	EXISTING
CENTERLINE OF ROAD	
CONTOUR - MAJOR	5280
CONTOUR - MINOR	5279
FENCE - WOOD POST	
PROPERTY BOUNDARY	
RIGHT-OF-WAY LINE	
SANITARY SEWER	
STORM SEWER	
WATER LINE	W

SYMBOLS LEGEND

- FIRE HYDRANT
- GATE VALVE
- LIGHT POLE
- SANITARY MANHOLE
- STORM INLET
- STREET SIGN
- TREE
- UTILITY POLE

NOTES:

1. SEE SHEET C0.01 FOR DEMOLITION NOTES.
2. ALL EXISTING ONSITE UTILITIES, BUILDINGS AND FEATURES TO BE REMOVED UNLESS OTHERWISE INDICATED.
3. ALL TREES AND VEGETATION INCIDENTAL TO DEMOLITION AND PROPOSED IMPROVEMENTS SHALL BE REMOVED.

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

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

PROFESSONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

EXISTING CONDITIONS & DEMO PLAN

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

30 0 30
HORIZONTAL SCALE: 1" = 30'

SHEET NUMBER:
C2.10
3 of 44

Plotted by: Jacob Huselton Date: 7/16/2026 11:58 AM
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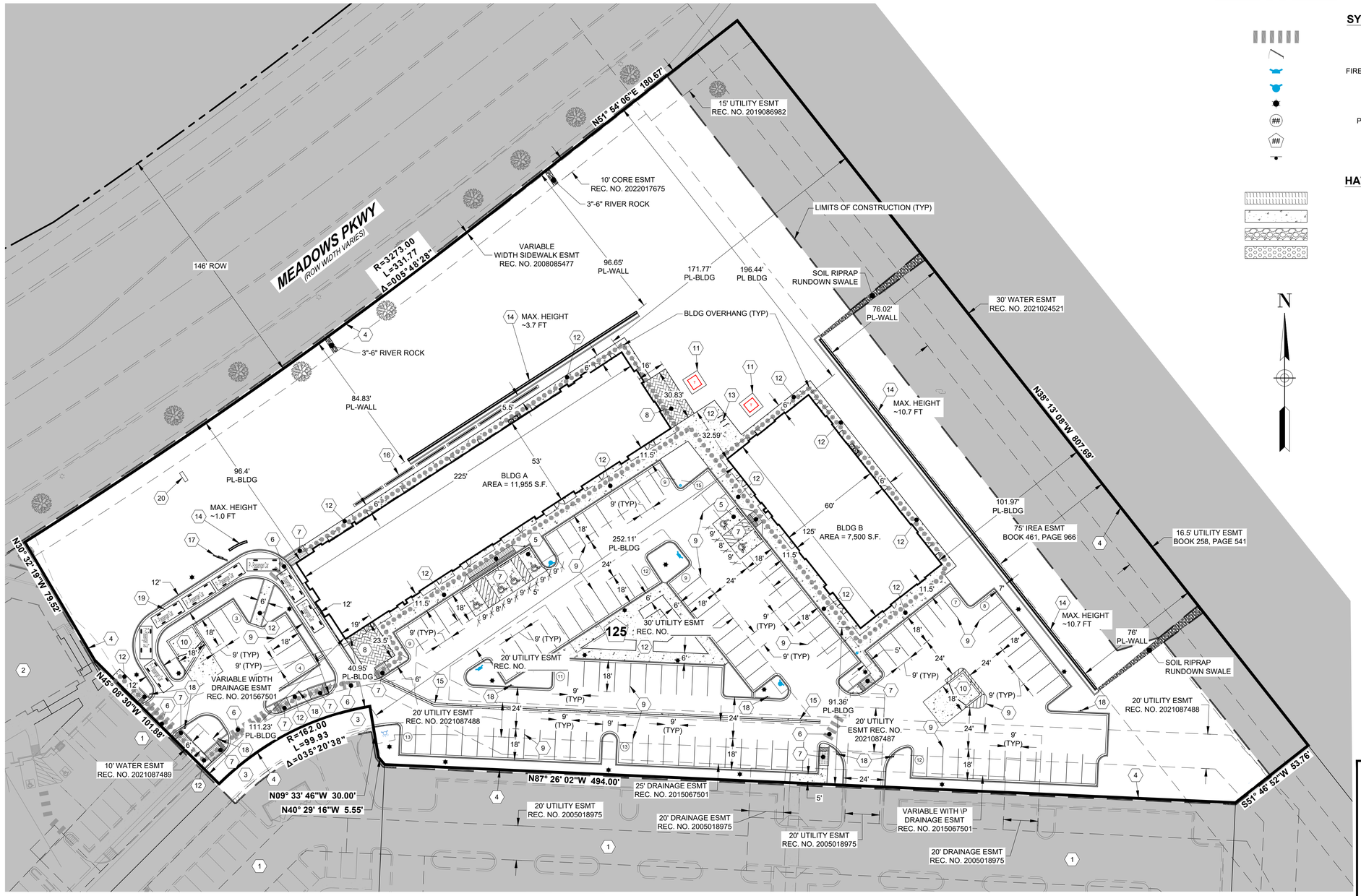


LINETYPE LEGEND

PROPOSED		EXISTING
	ACCESSIBLE ROUTE	
	CENTERLINE OF ROAD	
	DRAINAGE SWALE	
	PROPERTY BOUNDARY	
	RETAINING WALL	
	RIGHT-OF-WAY LINE	

SYMBOLS LEGEND

	CROSSWALK
	DOOR
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	LIGHT POLE
##	PARKING COUNT PER ROW
##	PARKING COUNT TOTAL
	STREET SIGN

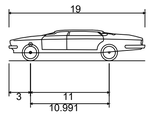
HATCHING LEGEND

	ACCESSIBLE RAMP
	CONCRETE PAVING
	RIPRAP / GRAVEL
	TRUNCATED DOMES

N

KEY:

1. EX PARKING LOT
2. EX BUILDING
3. EX ASPHALT ACCESS ROAD
4. PROPERTY LINE
5. ACCESSIBLE PARKING
6. CROSSWALK
7. CURB RAMP
8. PATIO
9. 4" WHITE STRIPE (TYP)
10. TRASH ENCLOSURE
11. 10' X 10' TRANSFORMER PAD
12. SIDEWALK, SEE PLAN FOR WIDTH
13. BIKE RACKS
14. RETAINING WALL
15. VALLEY PAN
16. SCREEN WALLS (TYP) (RE: ARCHITECTURAL PLANS)
17. DRIVE THROUGH MENU BOARD
18. NO PARKING FIRE LANE SIGN AND CURB MARKING
19. DRIVE THROUGH STACKING SPACES (TYP) (8 SPACES TOTAL) (SEE PASSENGER CAR PROFILE FOR TYP DIMENSIONS)
20. MONUMENT SIGN, RE: ARCHITECTURE PLANS FOR DETAILS



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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

P - Passenger Car
Overall Length 19.00 ft
Overall Width 7.00 ft

PROFESSONAL ENGINEER CERTIFICATION

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KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

SITE PLAN

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

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HORIZONTAL SCALE: 1" = 30'

SHEET NUMBER:
C4.10
4 of 44

Plotted by: Jacob Hiselton Date: 7/16/2026 11:52 AM
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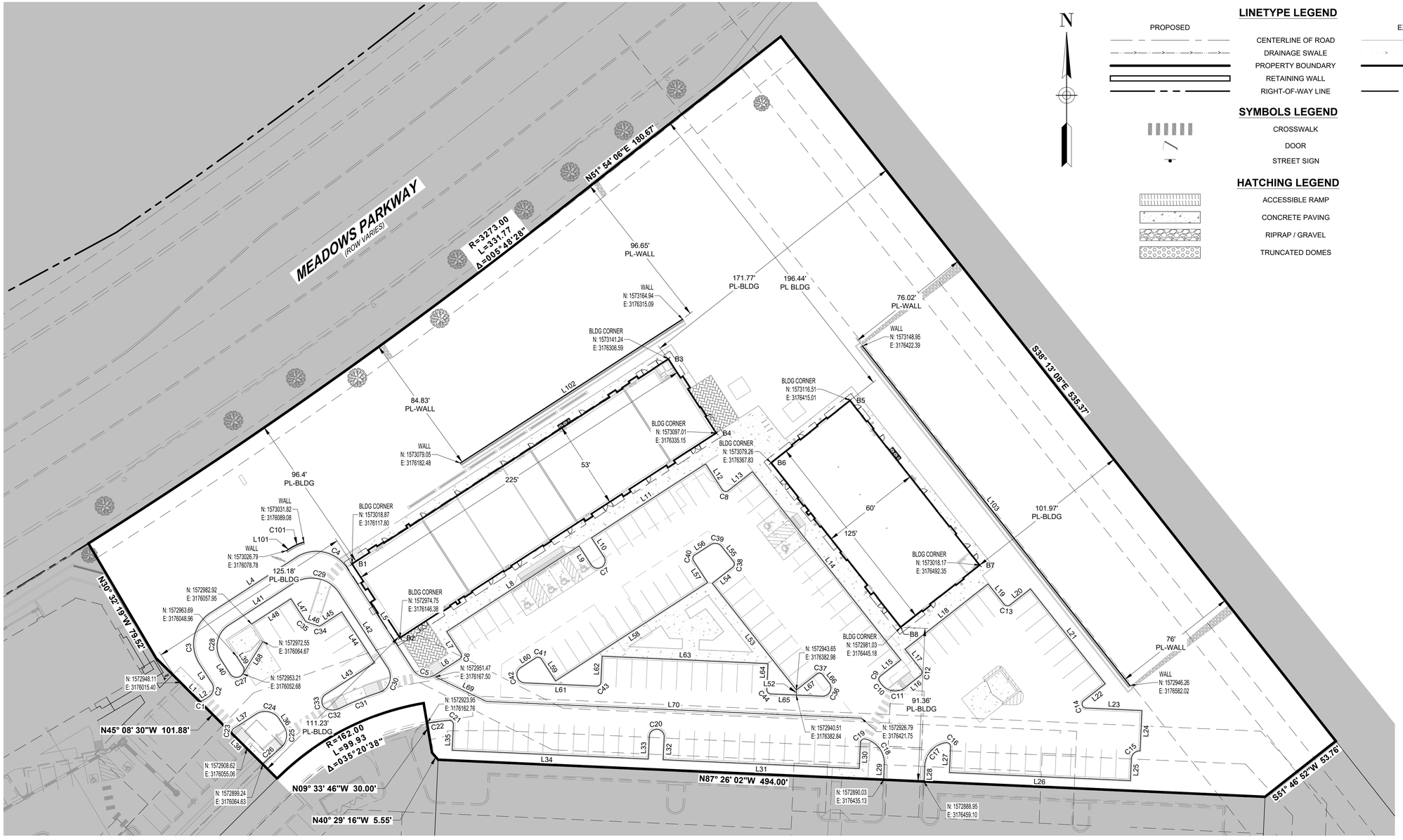

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LINETYPE LEGEND

PROPOSED		EXISTING
	CENTERLINE OF ROAD	
	DRAINAGE SWALE	
	PROPERTY BOUNDARY	
	RETAINING WALL	
	RIGHT-OF-WAY LINE	

SYMBOLS LEGEND

CROSSWALK

DOOR

STREET SIGN

HATCHING LEGEND

ACCESSIBLE RAMP

CONCRETE PAVING

RIPRAP / GRAVEL

TRUNCATED DOMES

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

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

NOTE:

1. SEE SHEET C4.21 FOR HORIZONTAL CONTROL TABLES.
2. ALL WALL COORDINATES, LINES, AND CURVES ARE MEASURED FROM THE BOTTOM FACE OF THE WALL (NORTHWEST FOR BLDG A WALLS AND NORTHEAST FOR BLDG B WALLS.

PROFESSONAL ENGINEER CERTIFICATION

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KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

HORIZONTAL CONTROL PLAN

PREPARED FOR:

WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

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HORIZONTAL SCALE: 1" = 30'

SHEET NUMBER:
C4.20
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Plotted by: Jacob Huselton Date: 7/16/2026 11:52 AM

FLOW LINE CONTROL TABLE

LINE TABLE		
LINE	LENGTH	DIRECTION
L1	14.72	S44° 58' 01"E
L2	4.05	N57° 04' 13"E
L3	13.45	N32° 55' 47"W
L4	60.98	N57° 04' 17"E
L5	72.01	S32° 56' 47"E
L6	16.78	N57° 04' 12"E
L7	15.50	N32° 55' 48"W
L8	94.00	N57° 04' 12"E
L9	13.50	S32° 55' 48"E
L10	13.50	N32° 55' 48"W
L11	81.00	N57° 04' 12"E
L12	18.27	S32° 55' 48"E
L13	18.34	N51° 46' 52"E
L14	143.00	S38° 13' 06"E
L15	15.50	S51° 46' 52"W
L16	11.50	N51° 46' 54"E
L17	15.50	N38° 13' 06"W
L18	63.00	N51° 46' 54"E
L19	15.50	S38° 13' 06"E
L20	15.50	N51° 46' 54"E

LINE TABLE		
LINE	LENGTH	DIRECTION
L21	72.00	S38° 13' 06"E
L22	16.31	S51° 46' 52"W
L23	33.35	S87° 26' 02"E
L24	24.00	S02° 33' 58"W
L25	13.00	S02° 33' 58"W
L26	108.00	N87° 26' 02"W
L27	15.25	N02° 34' 01"E
L28	9.19	S02° 33' 43"W
L29	9.09	N02° 33' 43"E
L30	15.25	S02° 33' 58"W
L31	117.00	N87° 26' 02"W
L32	13.50	N02° 33' 58"E
L33	13.50	S02° 33' 58"W
L34	117.00	N87° 26' 02"W
L35	15.28	N02° 33' 58"E
L36	5.11	S32° 55' 47"E
L37	15.78	N57° 04' 13"E
L38	11.57	N44° 57' 51"W
L39	6.75	S32° 55' 47"E
L40	10.00	N32° 55' 47"W

LINE TABLE		
LINE	LENGTH	DIRECTION
L41	45.98	N57° 04' 13"E
L42	52.87	S32° 57' 00"E
L43	34.78	N57° 03' 37"E
L44	36.00	N32° 56' 23"W
L45	15.19	S57° 03' 37"W
L46	8.00	N71° 31' 40"W
L47	15.88	N32° 55' 47"W
L48	27.80	S57° 04' 13"W
L52	3.14	S02° 33' 17"W
L53	81.00	N38° 13' 06"W
L54	15.50	N51° 46' 54"E
L55	11.35	N38° 13' 06"W
L56	11.35	S57° 04' 12"W
L57	15.50	S32° 55' 48"E
L58	108.00	S57° 04' 12"W
L59	15.50	N32° 55' 48"W
L60	10.75	S57° 04' 12"W
L61	42.95	S87° 26' 02"E
L62	15.50	N02° 33' 58"E
L63	99.00	S87° 26' 02"E

LINE TABLE		
LINE	LENGTH	DIRECTION
L64	15.50	S02° 33' 58"W
L65	30.72	S87° 26' 02"E
L66	6.25	N38° 13' 06"W
L67	15.50	S51° 46' 54"W
L68	22.76	S31° 48' 26"W
L69	33.84	S64° 15' 19"E
L70	224.00	S87° 26' 43"E

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD DIRECTION
C1	3.40	2.50	77.96	S83° 56' 54"E
C2	9.42	6.00	90.00	N12° 04' 10"E
C3	34.56	22.00	90.00	N12° 04' 07"E
C4	34.55	22.00	89.98	S77° 56' 17"E
C5	15.71	10.00	89.98	S77° 56' 18"E
C6	3.93	2.50	90.00	N12° 04' 12"E
C7	14.14	4.50	180.00	N57° 04' 12"E
C8	4.16	2.50	95.29	S80° 34' 28"E
C9	3.93	2.50	90.00	S6° 46' 53"W
C10	15.71	10.00	90.00	S83° 13' 06"E
C11	15.71	10.00	90.00	S83° 13' 06"E
C12	3.93	2.50	90.00	N6° 46' 54"E
C13	3.93	2.50	90.00	S83° 13' 06"E
C14	6.07	2.50	139.22	S17° 49' 35"E
C15	7.85	5.00	90.00	S47° 33' 58"W
C16	4.43	2.50	101.54	N48° 12' 03"W
C17	20.54	15.00	78.47	S41° 47' 48"W
C18	20.54	15.00	78.46	N36° 40' 03"W
C19	4.43	2.50	101.54	S53° 20' 05"W
C20	14.14	4.50	180.00	N87° 26' 01"W

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD DIRECTION
C21	4.24	2.50	97.09	N45° 58' 38"W
C22	12.98	150.00	4.96	S83° 00' 01"W
C23	4.45	2.50	102.03	N6° 03' 11"E
C24	15.71	10.00	90.00	S77° 55' 47"E
C25	14.44	10.00	82.75	S8° 26' 37"W
C26	14.39	174.00	4.74	S47° 26' 50"W
C27	14.14	4.50	180.00	S57° 04' 13"W
C28	23.56	15.00	90.00	N12° 04' 13"E
C29	31.41	20.00	89.98	S77° 56' 17"E
C30	18.33	10.00	105.03	S19° 33' 49"W
C31	25.06	174.48	8.23	S67° 57' 44"W
C32	7.41	10.00	42.46	S85° 04' 30"W
C33	11.41	5.00	130.76	N8° 19' 07"W
C34	0.90	1.00	51.41	S82° 45' 58"W
C35	0.67	1.00	38.60	N52° 13' 44"W
C36	11.41	5.00	130.78	N27° 10' 26"E
C37	3.93	2.50	90.00	N83° 13' 06"W
C38	3.93	2.50	90.00	N6° 46' 54"E
C39	7.39	5.00	84.71	N80° 34' 27"W
C40	3.93	2.50	90.00	S12° 04' 12"W

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD DIRECTION
C41	3.93	2.50	90.00	N77° 55' 48"W
C42	12.61	5.00	144.50	S15° 10' 55"E
C43	3.93	2.50	90.00	N47° 33' 58"E
C44	3.93	2.50	90.00	S42° 26' 02"E

RETAINING WALL CONTROL TABLE

WALL LINE TABLE		
LINE	LENGTH	DIRECTION
L101	2.64	S57° 04' 34"W
L102	158.00	N57° 04' 12"E
L103	258.00	S38° 13' 23"E

WALL CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD DIRECTION
C101	8.88	28.56	17.81	S65° 59' 47"W

BUILDING CORNER CONTROL TABLE

BUILDING POINT TABLE		
POINT NO.	NORTHING	EASTING
B1	1573018.87	3176117.80
B2	1572974.75	3176146.38
B3	1573141.24	3176306.59
B4	1573097.01	3176335.15
B5	1573116.51	3176415.01
B6	1573079.26	3176367.83
B7	1573018.17	3176492.35
B8	1572981.03	3176445.18

NOTE:

1. ALL WALL COORDINATES, LINES, AND CURVES ARE MEASURED FROM THE BOTTOM FACE OF THE WALL (NORTHWEST FOR BLDG A WALLS AND NORTHEAST FOR BLDG B WALLS.

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

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

PROFESSONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

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APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
HORIZONTAL CONTROL TABLES

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26		
DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C4.21
6 of 44

Plotted by: Jacob Huselton Date: 7/16/2026 11:52 AM
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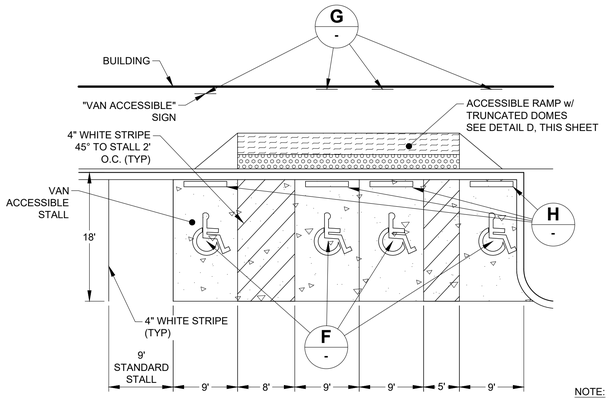
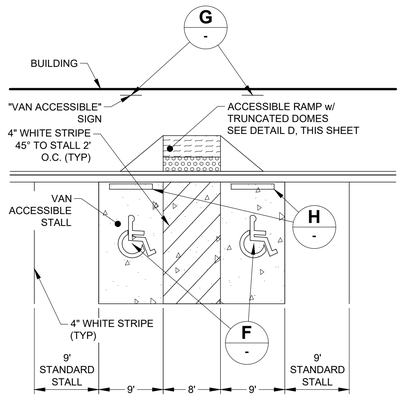


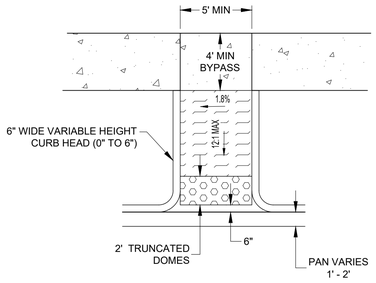
NOTE:
ALL MARKINGS SHALL MEET ACCESSIBLE AND LOCAL JURISDICTION STANDARDS

A ACCESSIBLE PARKING DETAIL
1" = 10'

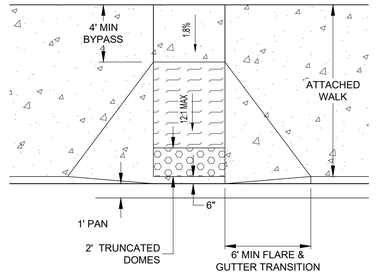


NOTE:
ALL MARKINGS SHALL MEET ACCESSIBLE AND LOCAL JURISDICTION STANDARDS

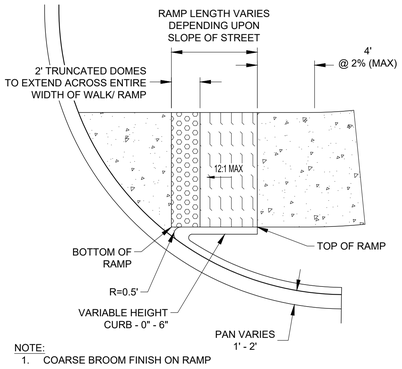
B ACCESSIBLE PARKING DETAIL
1" = 10'



C CURB RAMP - TYPE 2
1" = 5'

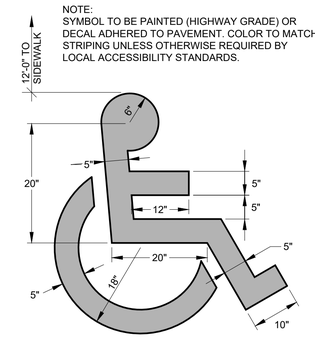


D CURB RAMP - TYPE 3
1" = 5'



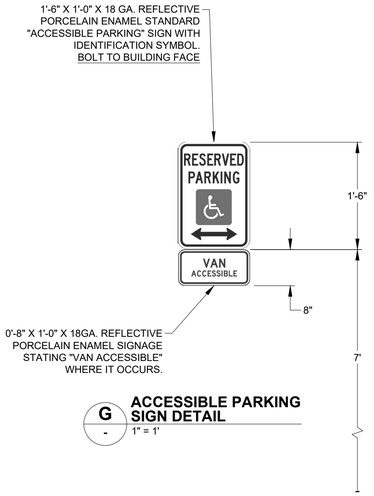
NOTE:
1. COARSE BROOM FINISH ON RAMP

E CURB RAMP - TYPE 5
1" = 5'

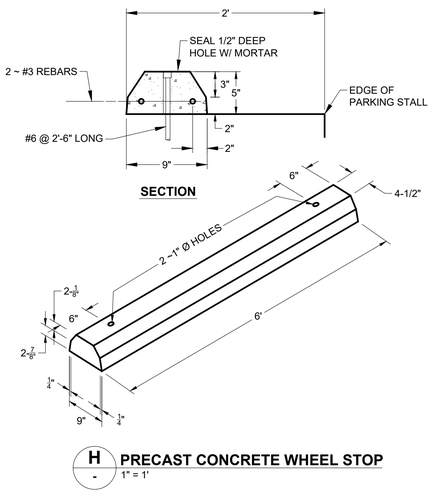


NOTE:
SYMBOL TO BE PAINTED (HIGHWAY GRADE) OR DECAL ADHERED TO PAVEMENT. COLOR TO MATCH STRIPING UNLESS OTHERWISE REQUIRED BY LOCAL ACCESSIBILITY STANDARDS.

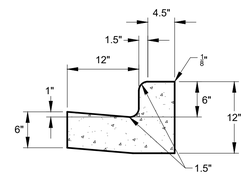
F ACCESSIBLE PARKING PAVEMENT MARKING DETAIL
NTS



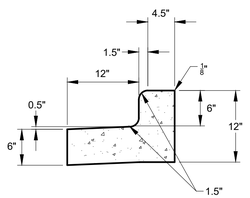
G ACCESSIBLE PARKING SIGN DETAIL
1" = 1'



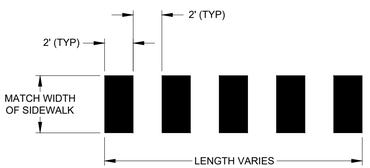
H PRECAST CONCRETE WHEEL STOP
1" = 1'



I 6" VERTICAL CURB w/ 1' CATCH PAN
1" = 1'



J 6" VERTICAL CURB w/ 1' SPILL PAN
1" = 1'



NOTE:
CROSSWALK STRIPING SHALL BE EPOXY PAINT. ALL STRIPING MUST BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

K CROSSWALK DETAIL
1" = 5'

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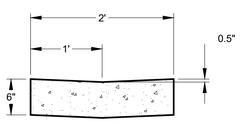
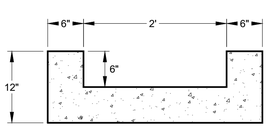
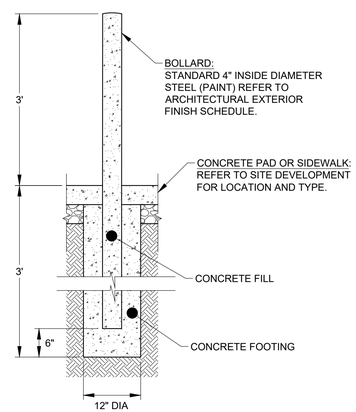


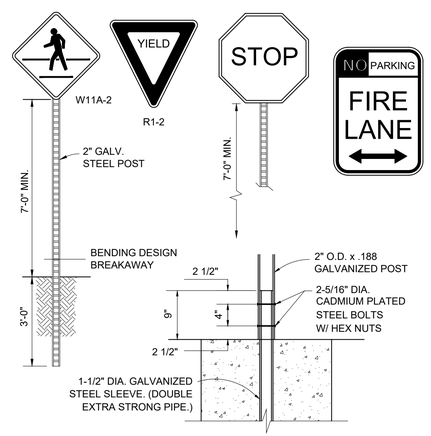
L VALLEY PAN DETAIL
1" = 1'



M CURB CHASE DETAIL
1" = 1'



N STEEL BOLLARD SECTION
NTS



O SIGNAGE DETAILS
NTS

PROFESSONAL ENGINEER CERTIFICATION

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KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
SITE DETAILS

WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

PREPARED FOR:

DATE	REVISIONS	BY

ISSUE DATE: 7/16/26

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C4.90
7 of 44

Plotted by: Jacob Huselton Date: 7/16/2026 11:52 AM
File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C4.90 - SITE DETAILS.dwg

LINETYPE LEGEND

PROPOSED		EXISTING
5280	CONTOUR - MAJOR	5280
5279	CONTOUR - MINOR	5279
	RETAINING WALL	
RD RD	ROOF DRAIN	
	STORM SEWER	

SYMBOLS LEGEND

2.0%	SLOPE
80.00	SPOT ELEVATION
	STORM INLET
	STORM MANHOLE

(80.00)

D

HATCHING LEGEND

- ACCESSIBLE RAMP
- CONCRETE PAVING
- RIPRAP / GRAVEL
- TRUNCATED DOMES

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

OVERALL GRADING PLAN

PREPARED FOR:

WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

30 0 30
HORIZONTAL SCALE: 1" = 30'

PROFESSONAL ENGINEER CERTIFICATION

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PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

SHEET NUMBER:
C5.10
8 of 44

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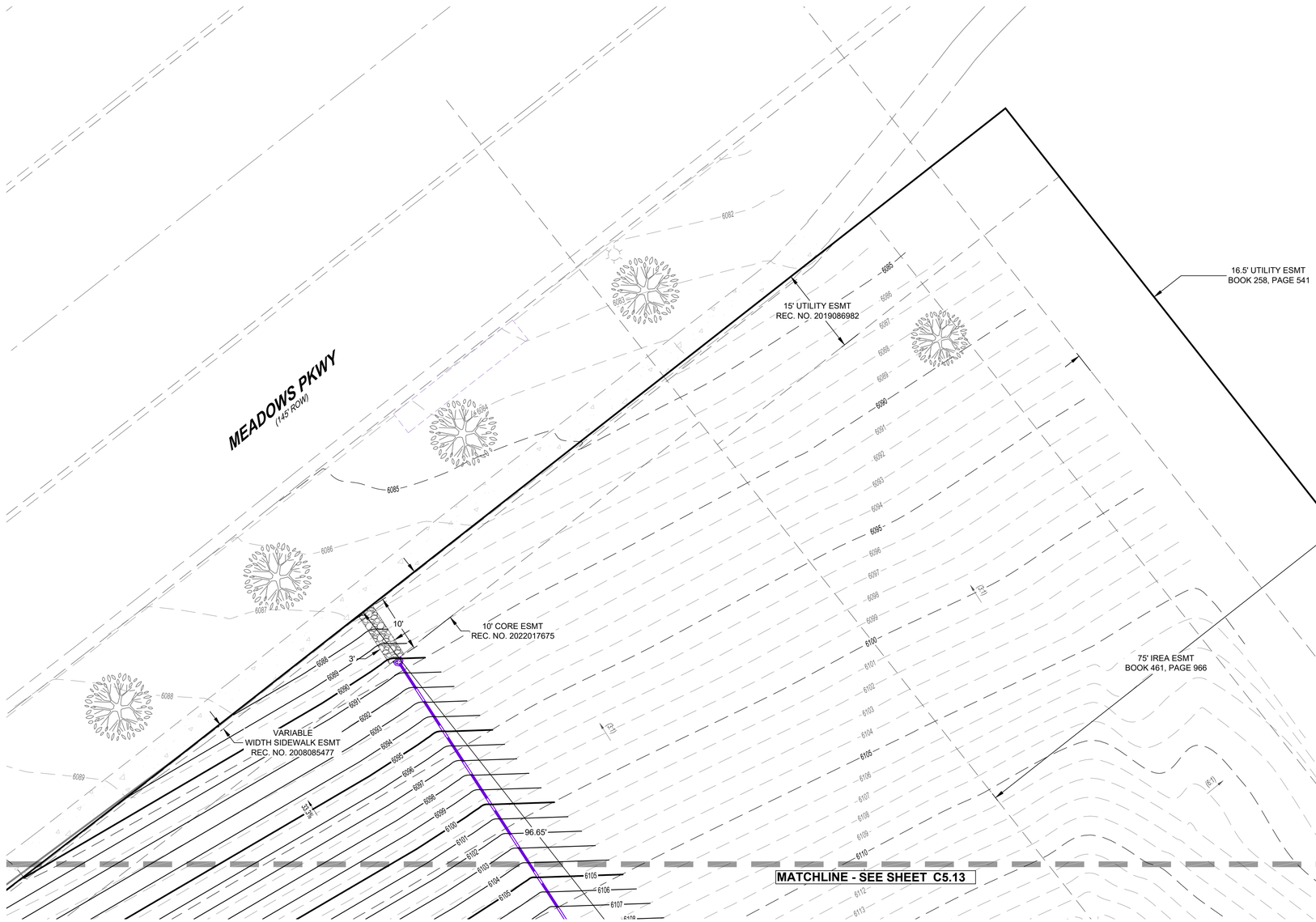

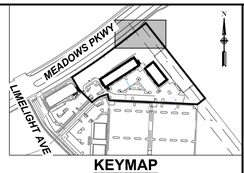

KEYMAP
1" = 400'

LINETYPE LEGEND

PROPOSED		EXISTING
5280	CONTOUR - MAJOR	5280
5279	CONTOUR - MINOR	5279
	RETAINING WALL	
RD RD	ROOF DRAIN	
	STORM SEWER	

SYMBOLS LEGEND

2.0%	SLOPE	
80.00	SPOT ELEVATION	(80.00)
	STORM INLET	
D	STORM MANHOLE	D

HATCHING LEGEND

- ACCESSIBLE RAMP
- CONCRETE PAVING
- RIPRAP / GRAVEL
- TRUNCATED DOMES

N

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COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

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APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
DETAILED GRADING PLAN

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

10 0 10
HORIZONTAL SCALE: 1" = 10'

SHEET NUMBER:
C5.11
9 of 44

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C5.11 - C5.17 - GRADING PLANS.dwg Plotted by: Jacob Huselton Date: 7/16/2026 11:53 AM

LINETYPE LEGEND

PROPOSED		EXISTING
5280	CONTOUR - MAJOR	5280
5279	CONTOUR - MINOR	5279
	RETAINING WALL	
RD RD	ROOF DRAIN	
	STORM SEWER	

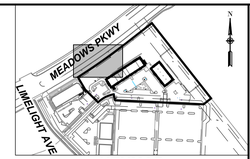
SYMBOLS LEGEND

2.0%	SLOPE
80.00	SPOT ELEVATION
	STORM INLET
D	STORM MANHOLE

(80.00)

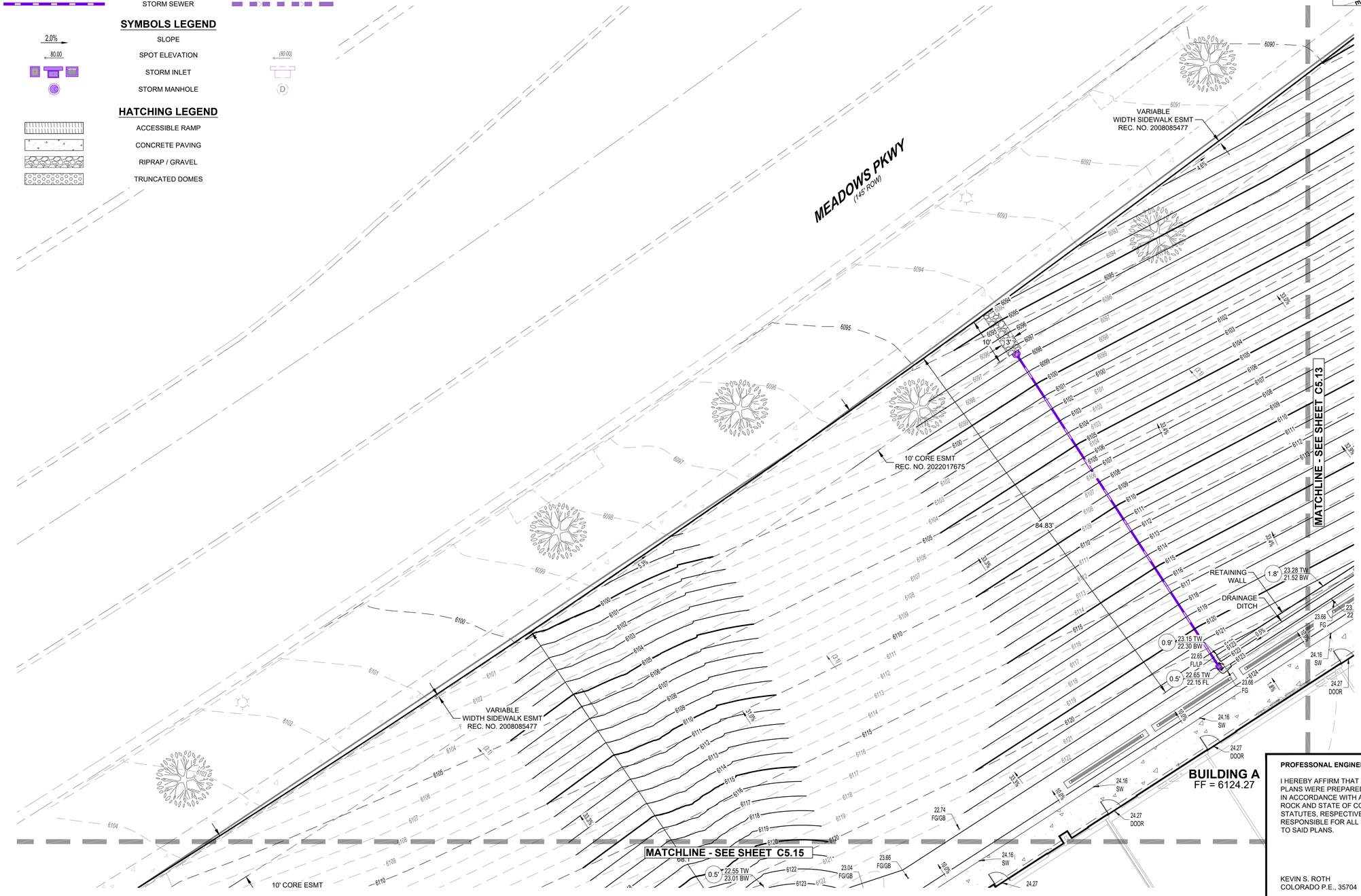
HATCHING LEGEND

- ACCESSIBLE RAMP
- CONCRETE PAVING
- RIPRAP / GRAVEL
- TRUNCATED DOMES



KEYMAP
1" = 400'

N



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NOTES:

1. RETAINING WALLS, SECTIONS OF RETAINING WALLS 4-FEET IN HEIGHT OR HIGHER OR TIERED WALLS MUST BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF COLORADO AND MUST RECEIVE A BUILDING PERMIT FROM THE TOWN OF CASTLE ROCK PRIOR TO THE ISSUANCE OF THE PUBLIC WORKS PERMIT.

PROFESSIONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
DETAILED GRADING PLAN

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

10 0 10
HORIZONTAL SCALE: 1" = 10'

SHEET NUMBER:
C5.12
10 of 44

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C5.11 - C5.17 - GRADING PLANS.dwg Plotted by: Jacob Hueltson Date: 7/16/2026 11:53 AM

LINETYPE LEGEND

PROPOSED		EXISTING
5280	CONTOUR - MAJOR	5280
5279	CONTOUR - MINOR	5279
	RETAINING WALL	
RD RD	ROOF DRAIN	
	STORM SEWER	

SYMBOLS LEGEND

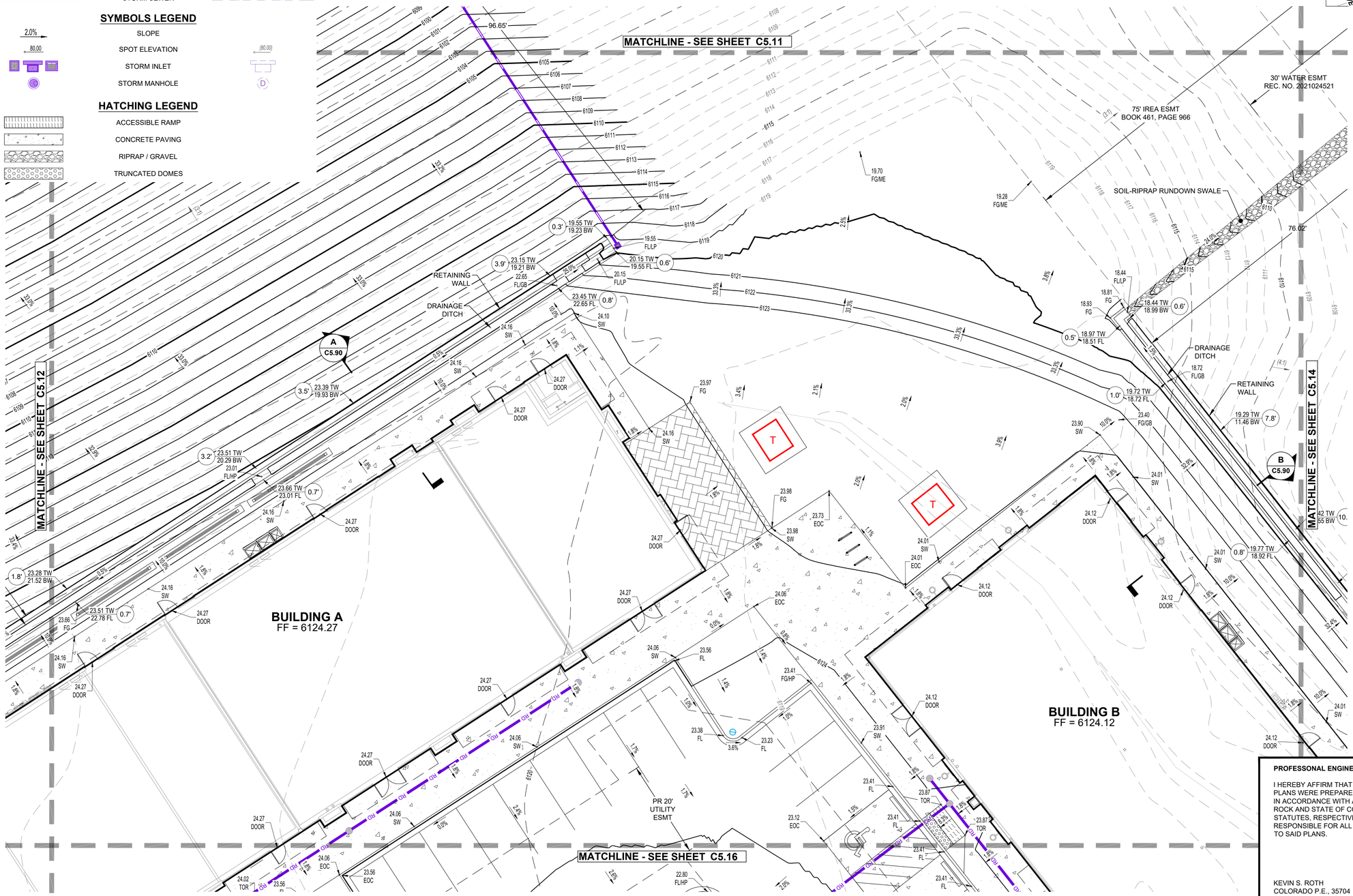
2.0%	SLOPE
80.00	SPOT ELEVATION
	STORM INLET
	STORM MANHOLE

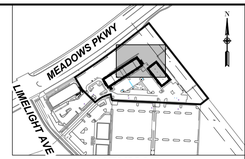
(80.00)

D

HATCHING LEGEND

- ACCESSIBLE RAMP
- CONCRETE PAVING
- RIPRAP / GRAVEL
- TRUNCATED DOMES





KEYMAP
1" = 400'

N

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EDWARD FRANKE
PHONE: 312-925-5922

DATE	REVISIONS	BY

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10 0 10
HORIZONTAL SCALE: 1" = 10'

SHEET NUMBER:
C5.13
11 of 44

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C5.11 - C5.17 - GRADING PLANS.dwg
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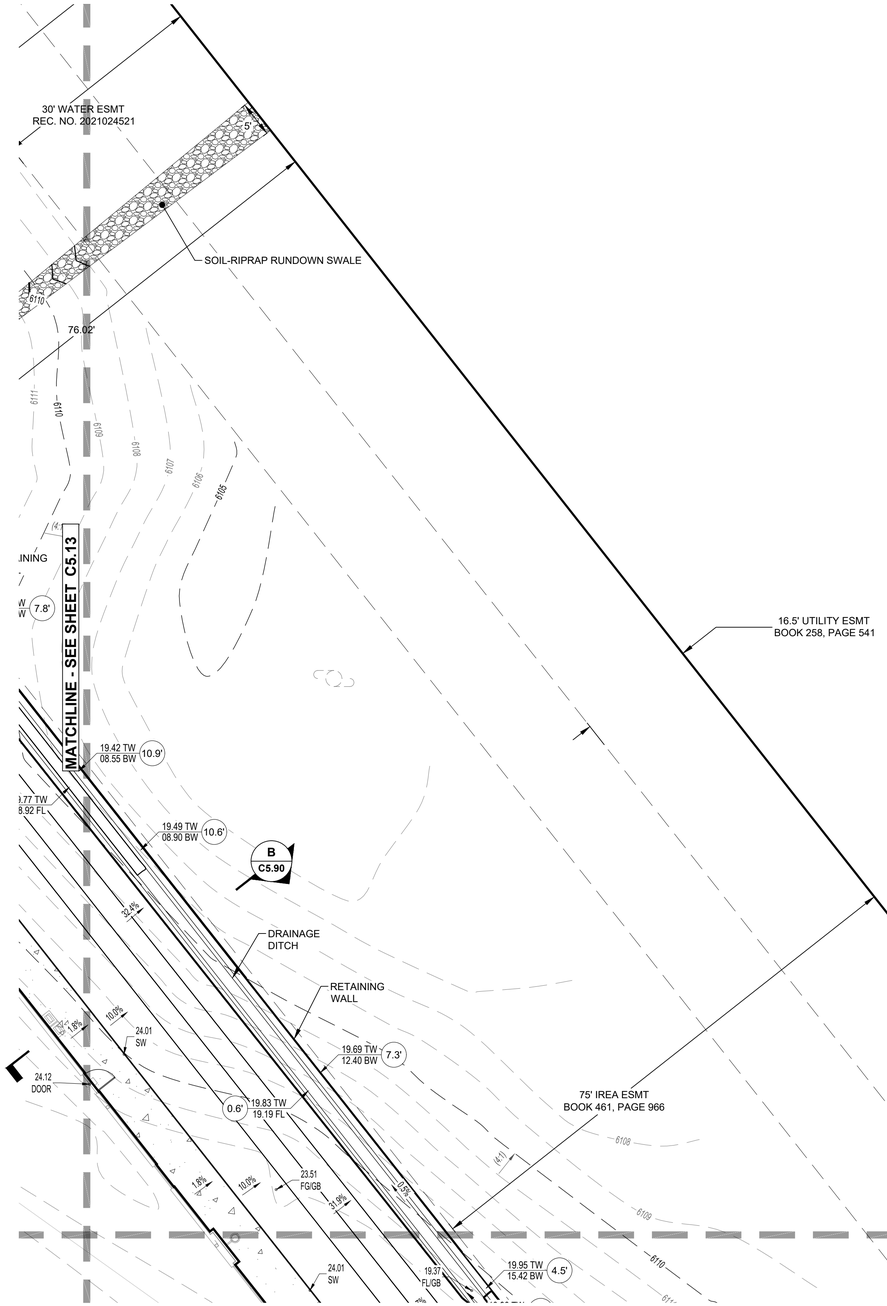

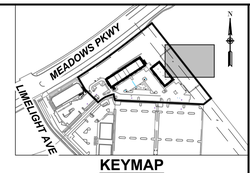

KEYMAP
1" = 400'

LINETYPE LEGEND

PROPOSED		EXISTING
5280	CONTOUR - MAJOR	5280
5270	CONTOUR - MINOR	5279
	RETAINING WALL	
RD RD	ROOF DRAIN	
	STORM SEWER	

SYMBOLS LEGEND

2.0%	SLOPE	
80.00	SPOT ELEVATION	(80.00)
	STORM INLET	
	STORM MANHOLE	D

HATCHING LEGEND

- ACCESSIBLE RAMP
- CONCRETE PAVING
- RIPRAP / GRAVEL
- TRUNCATED DOMES

N

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WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

DATE	REVISIONS	BY

ISSUE DATE: 7/16/26

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

10 0 10
HORIZONTAL SCALE: 1" = 10'

SHEET NUMBER:
C5.14
12 of 44

Plotted by: Jacob Huselton Date: 7/16/2026 11:53 AM
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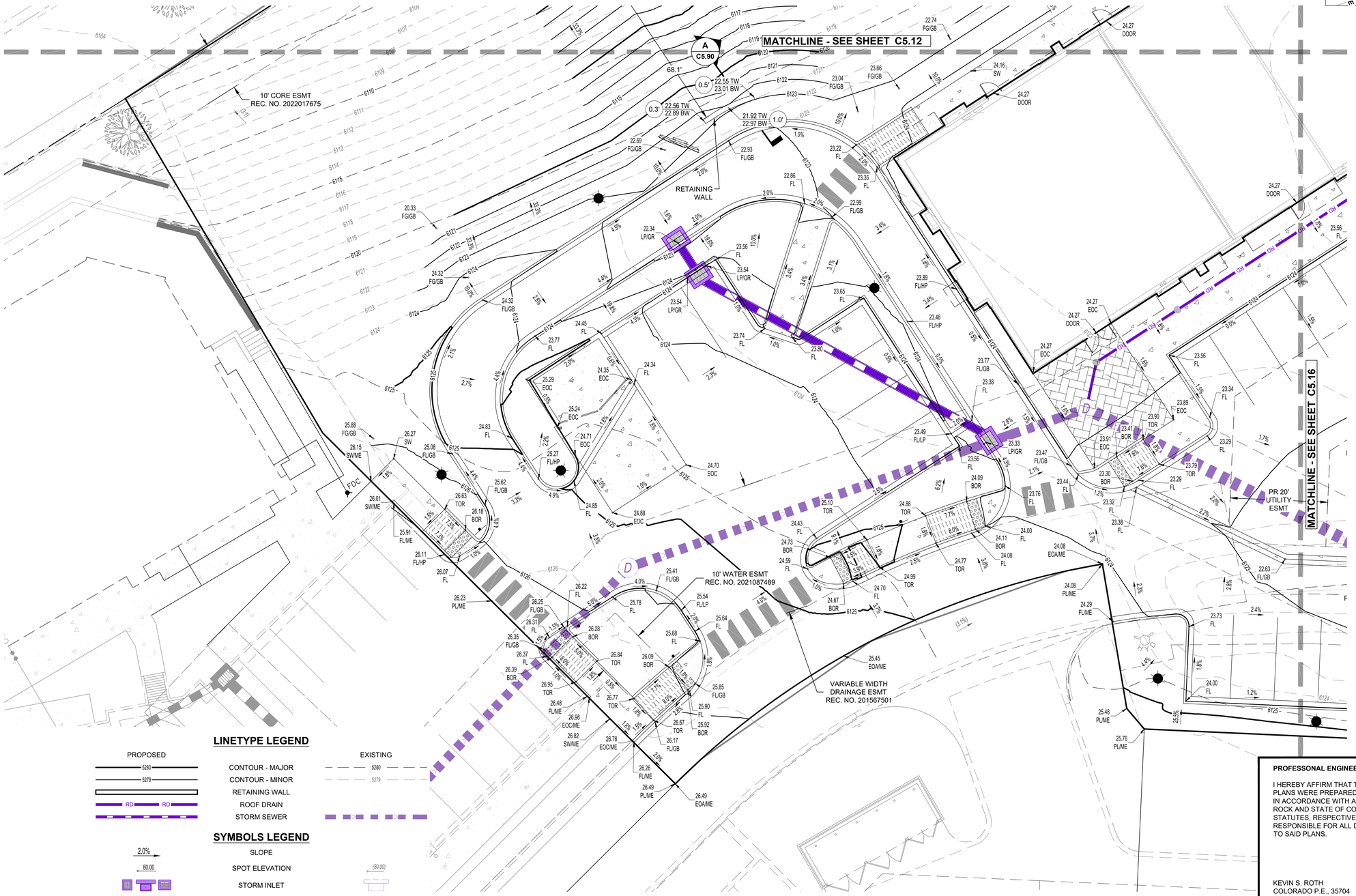

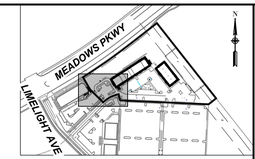

KEYMAP
1" = 400'

N

LINETYPE LEGEND

PROPOSED		EXISTING
5280	CONTOUR - MAJOR	5280
5279	CONTOUR - MINOR	5279
	RETAINING WALL	
RD RD	ROOF DRAIN	
	STORM SEWER	

SYMBOLS LEGEND

2.0%	SLOPE	
80.00	SPOT ELEVATION	(80.00)
	STORM INLET	
D	STORM MANHOLE	D

HATCHING LEGEND

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EDWARD FRANKE
PHONE: 312-925-5922

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DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

10 0 10
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SHEET NUMBER:
C5.15
13 of 44

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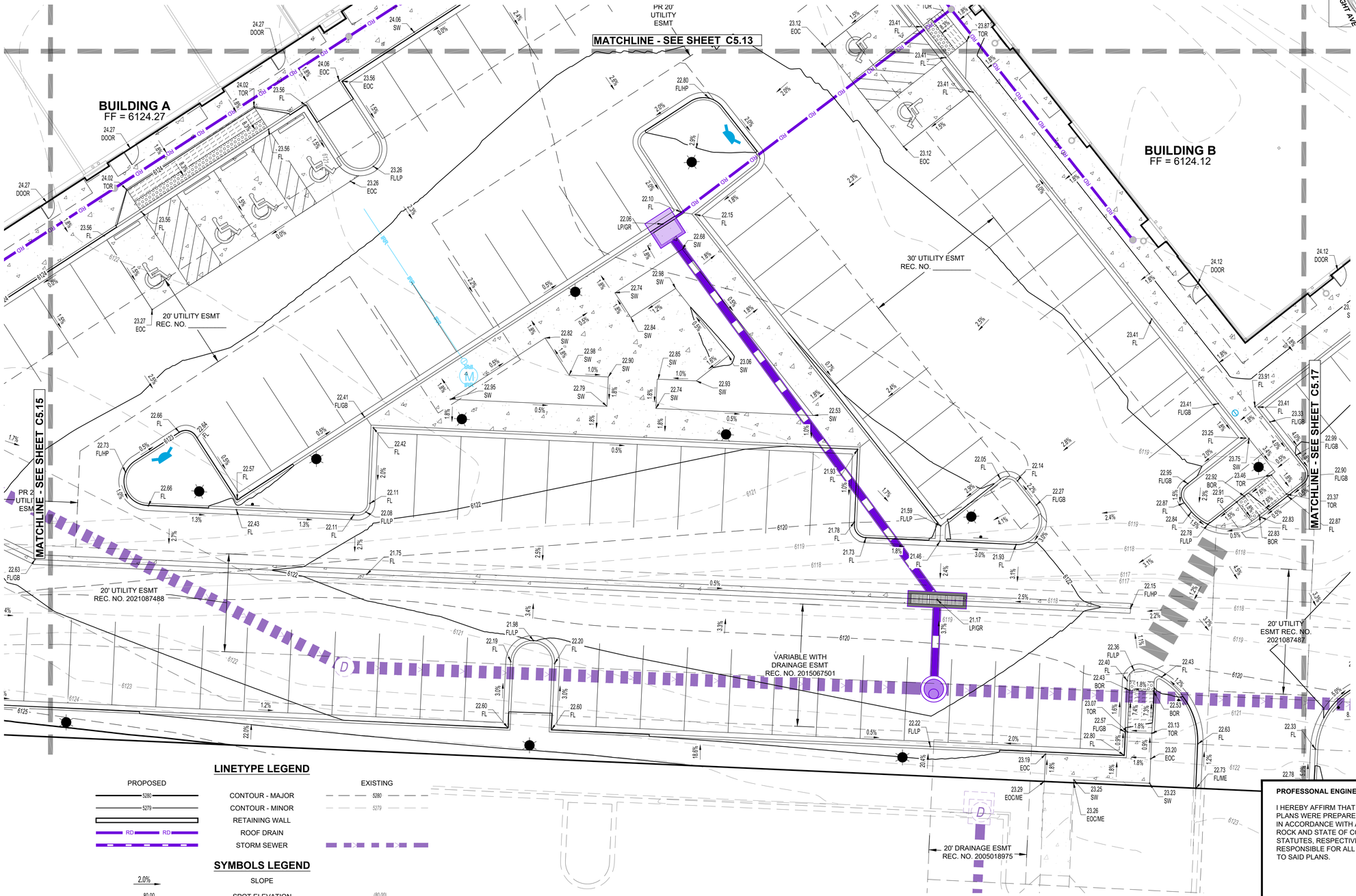

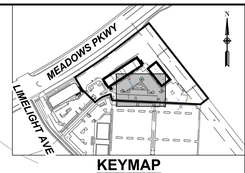

KEYMAP
1" = 400'

N

LINETYPE LEGEND

PROPOSED		EXISTING
5280	CONTOUR - MAJOR	5280
5279	CONTOUR - MINOR	5279
	RETAINING WALL	
RD RD	ROOF DRAIN	
	STORM SEWER	

SYMBOLS LEGEND

2.0%	SLOPE
60.00	SPOT ELEVATION
	STORM INLET
	STORM MANHOLE

(60.00)

D

HATCHING LEGEND

ACCESSIBLE RAMP
CONCRETE PAVING
RIPRAP / GRAVEL
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LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

DETAILED GRADING PLAN

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

10 0 10
HORIZONTAL SCALE: 1" = 10'

SHEET NUMBER:
C5.16
14 of 44

Plotted by: Jacob Huselton Date: 7/16/2026 11:53 AM
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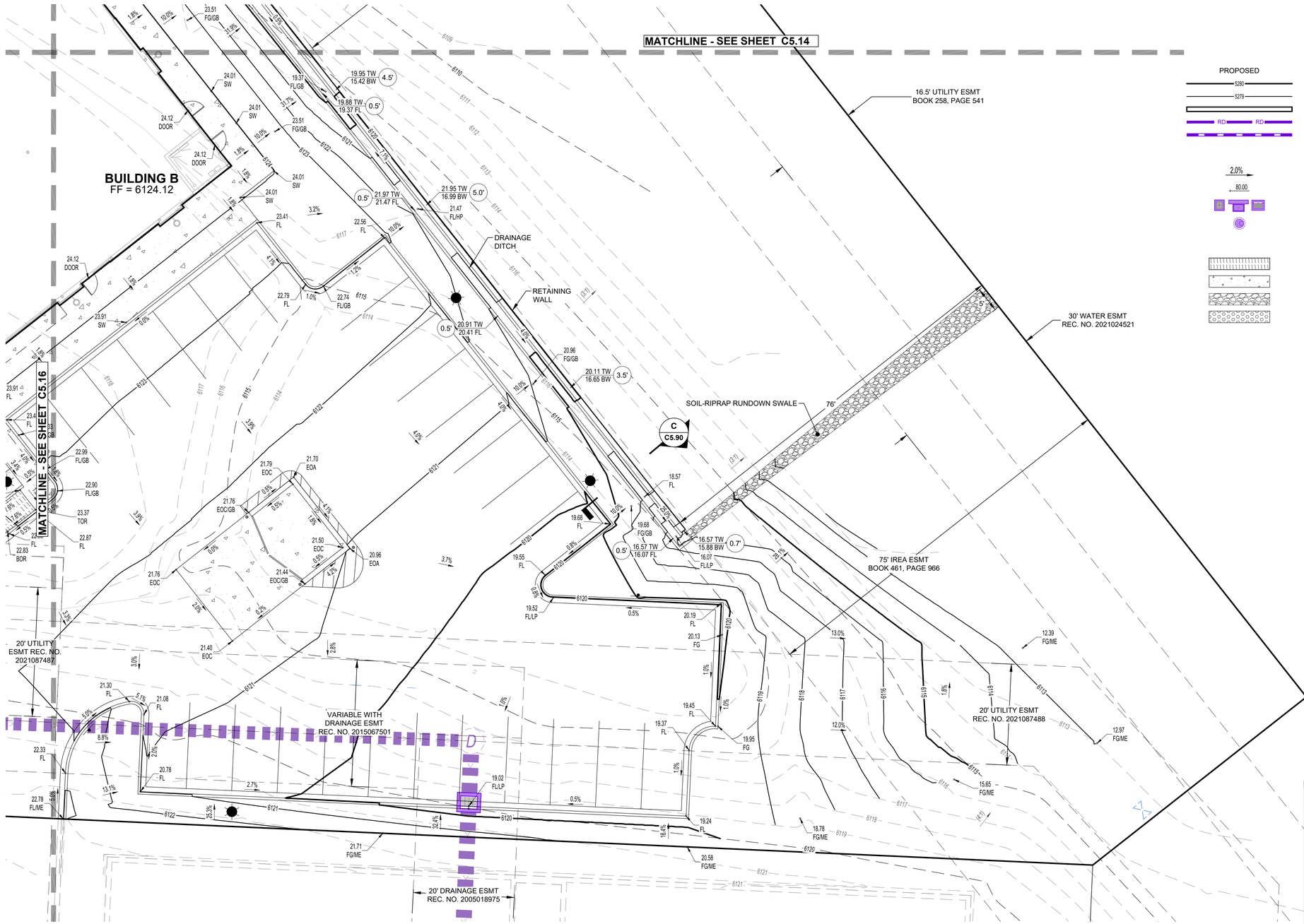

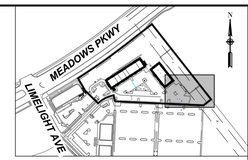

KEYMAP
1" = 400'

LINETYPE LEGEND

PROPOSED		EXISTING
5280	CONTOUR - MAJOR	5280
5270	CONTOUR - MINOR	5279
	RETAINING WALL	
RD RD	ROOF DRAIN	
	STORM SEWER	

SYMBOLS LEGEND

2.0%	SLOPE
80.00	SPOT ELEVATION
	STORM INLET
D	STORM MANHOLE

HATCHING LEGEND

- ACCESSIBLE RAMP
- CONCRETE PAVING
- RIPRAP / GRAVEL
- TRUNCATED DOMES

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DETAILED GRADING PLAN

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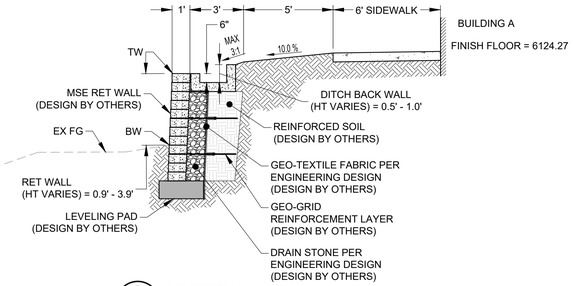
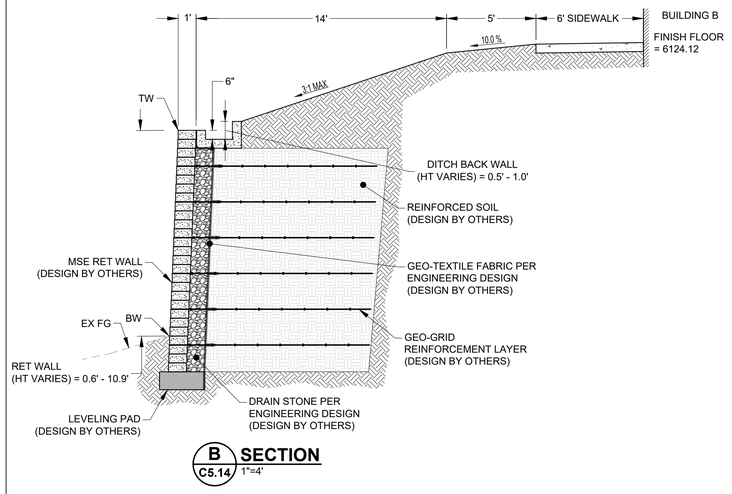
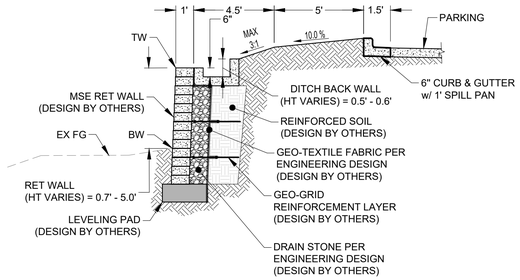


A C5.17 **SECTION**
1"=4'



B C5.14 **SECTION**
1"=4'



C C5.17 **SECTION**
1"=4'

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LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
GRADING DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26		
DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C5.90
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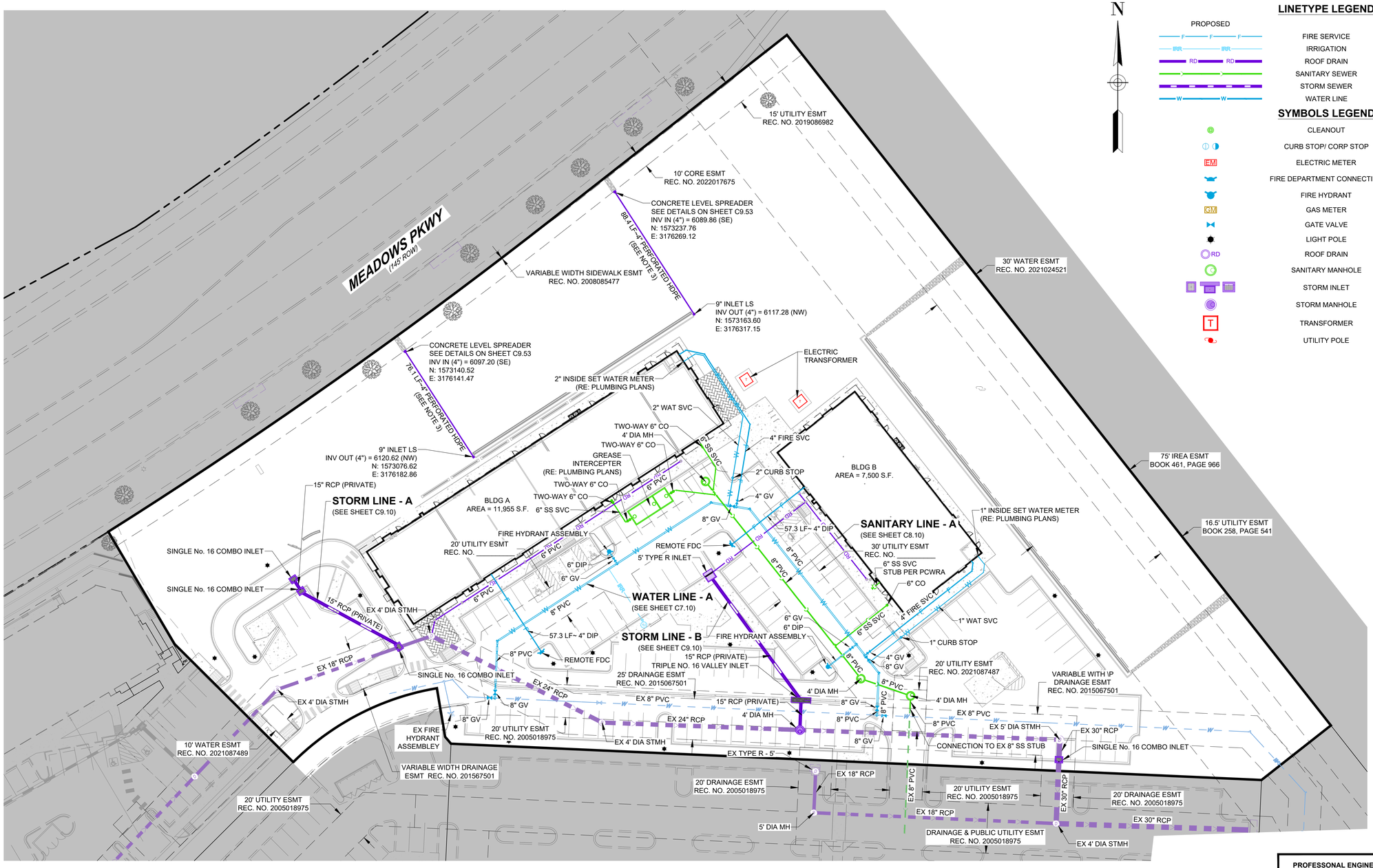
File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\C7's\C5.90 - GRADING DETAILS.dwg Plotted by: Jacob Huselton Date: 7/16/2026 11:53 AM



N

LINETYPE LEGEND

PROPOSED		EXISTING
F F F	FIRE SERVICE	F F F
IRR IRR	IRRIGATION	IRR IRR
RD RD	ROOF DRAIN	RD RD
	SANITARY SEWER	
	STORM SEWER	
W W	WATER LINE	W W

SYMBOLS LEGEND

	CLEANOUT	
	CURB STOP/ CORP STOP	
EM	ELECTRIC METER	EM
	FIRE DEPARTMENT CONNECTION	
	FIRE HYDRANT	
GM	GAS METER	GM
	GATE VALVE	
	LIGHT POLE	
RD	ROOF DRAIN	
S	SANITARY MANHOLE	S
	STORM INLET	
D	STORM MANHOLE	D
T	TRANSFORMER	T
	UTILITY POLE	

NOTES:

1. CONTRACTOR SHALL PROVIDE A MINIMUM SEVENTY TWO (72) HOURS' NOTICE TO THE ON-SITE TCR CONSTRUCTION INSPECTOR, (720) 733-2200, PRIOR TO MAKING ANY CONNECTIONS OR TIE-INS TO EXISTING WATER, SANITARY SEWER, AND/OR STORM SEWER SYSTEMS PROVIDED THAT THE UTILITY TIE-IN DOES NOT DISRUPT SERVICE TO EXISTING CR WATER CUSTOMERS. IF THE TIE-IN REQUIRES A LINE SHUTDOWN, OR WILL DISRUPT UTILITY SERVICE, THEN CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WEEKS' NOTICE TO THE TCR CONSTRUCTION INSPECTOR TO ALLOW TIME FOR CR WATER TO PROVIDE WRITTEN NOTIFICATION TO EXISTING CUSTOMERS AFFECTED BY THE TIE-IN. ALL TOWN UTILITY TIE-INS MUST BE APPROVED BY CR WATER PRIOR TO COMMENCING WORK.
2. AT ALL INSTANCES WHERE A WATER MAIN CROSSES A SANITARY SEWER MAIN OR STORM SEWER, REGARDLESS OF VERTICAL CLEARANCE, AND WHICH PIPE CROSSES OVER THE OTHER, ONE FULL STANDARD LENGTH SECTION OF EACH PIPE SHALL BE LOCATED SUCH THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE.
3. 4" PERFORATED HDPE SHALL BE INSTALLED WITH PERFORATIONS DIRECTED DOWNWARD.
4. TCV26-0019: CURB STOP FOR BUILDING B LOCATED IN CONCRETE SIDEWALK.

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LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

OVERALL UTILITY PLAN

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

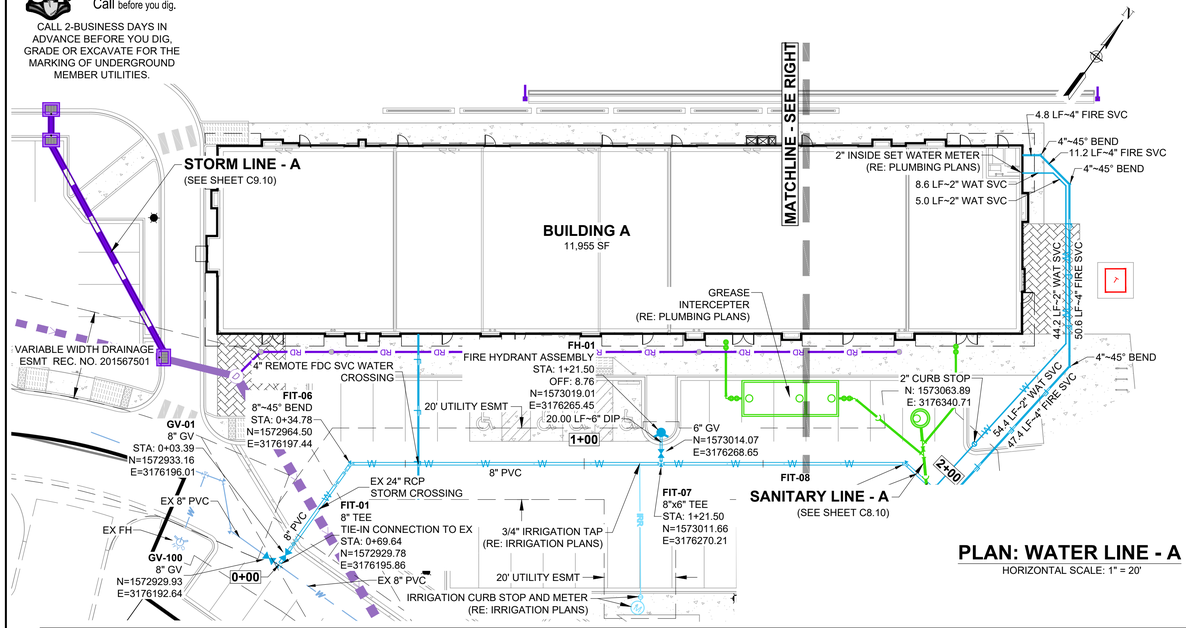
30 0 30
HORIZONTAL SCALE: 1" = 30'

SHEET NUMBER:
C6.10
17 of 44

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C6.10 - OVERALL UTILITY PLAN.dwg
Plotted by: Jacob Hiselton Date: 7/16/2026 11:53 AM

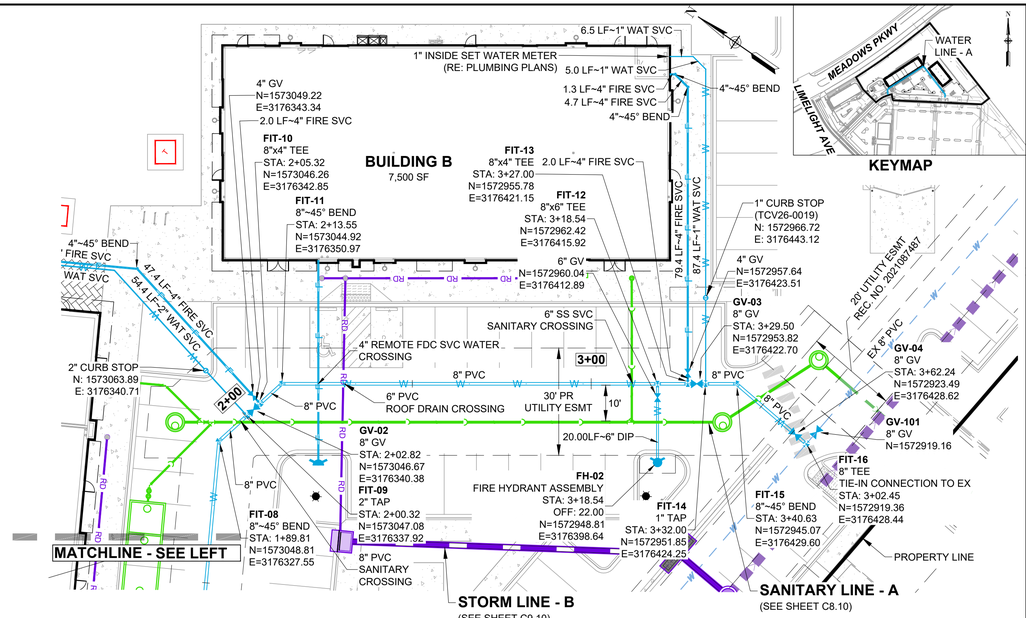
811 Know what's below. Call before you dig.

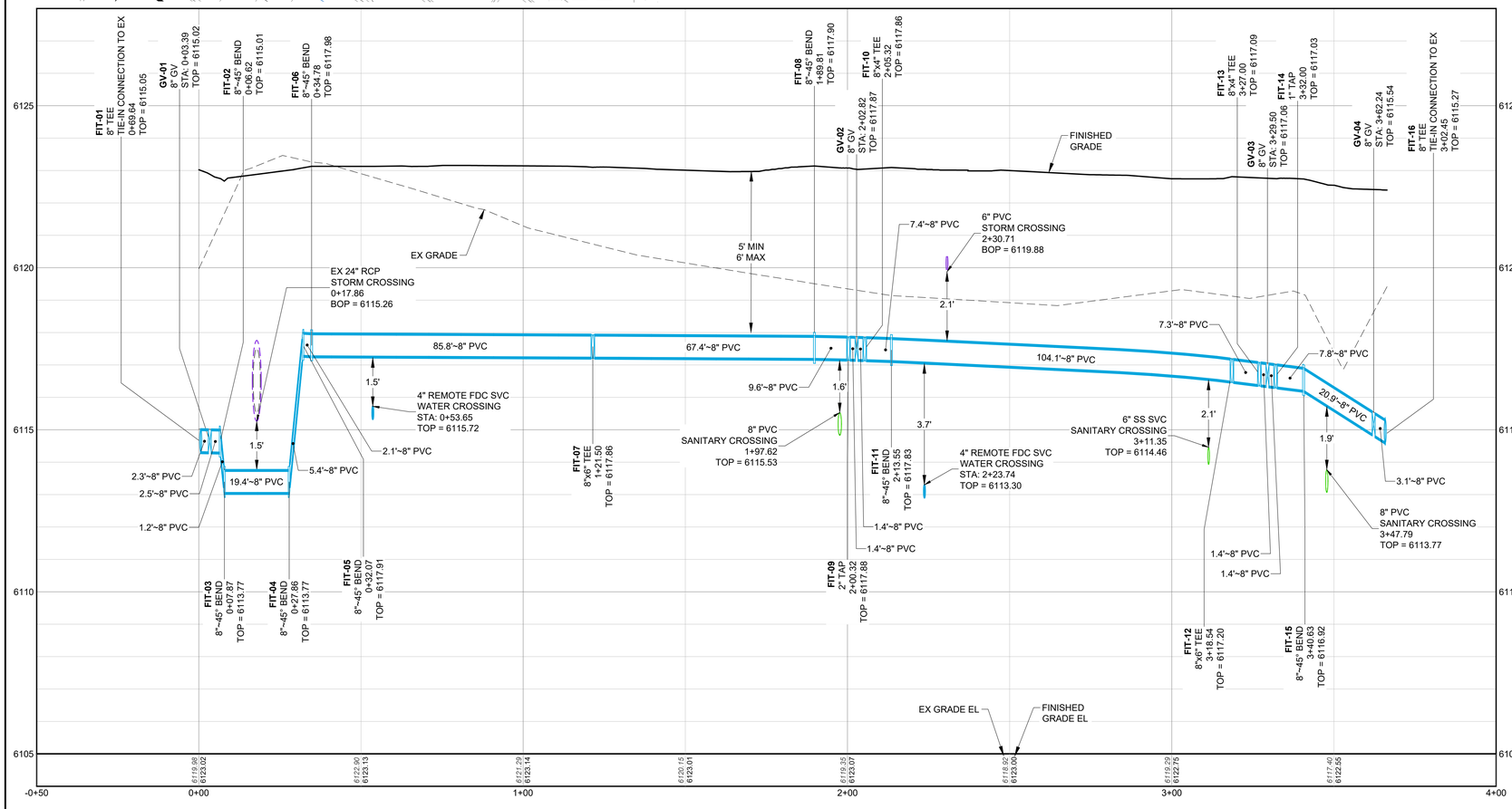
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.



PLAN: WATER LINE - A

HORIZONTAL SCALE: 1" = 20'





PROFILE: WATER LINE - A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

LINETYPE LEGEND

	PROPOSED	EXISTING
FIRE SERVICE	F F F	F F F F
IRRIGATION	IRR IRR	IRR IRR
ROOF DRAIN	RD RD	
SANITARY SEWER		
STORM SEWER		
WATER LINE	W W	W W

SYMBOLS LEGEND

	CLEANOUT	
	CURB STOP/ CORP STOP	
EM	ELECTRIC METER	EM
	FIRE DEPARTMENT CONNECTION	
	FIRE HYDRANT	
GM	GAS METER	GM
	GATE VALVE	
	LIGHT POLE	
RD	ROOF DRAIN	
	SANITARY MANHOLE	S
	STORM INLET	
	STORM MANHOLE	D
T	TRANSFORMER	T
	UTILITY POLE	

NOTES:

1. CONTRACTOR SHALL NOTIFY CASTLE ROCK WATER OF ANY WORK THAT REQUIRES SHUTDOWN OR INTERRUPTION OF SERVICE OF EXISTING WATER MAINS THREE WEEKS PRIOR TO THE PROPOSED SHUTDOWN OR INTERRUPTION UNLESS OTHERWISE APPROVED BY CASTLE ROCK WATER.
2. ALL HYDRANT LATERALS SHALL BE FULLY RESTRAINED USING MEG-A-LUG JOINT RESTRAINT OR APPROVED EQUAL. ALL FIRE PROTECTION SERVICE LINES SHALL BE FULLY RESTRAINED IN THEIR ENTIRETY.
3. TCV26-0019: CURB STOP FOR BUILDING B LOCATED IN CONCRETE SIDEWALK.

PROFESSONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

PLAN & PROFILE - WATER LINE - A

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C7.10
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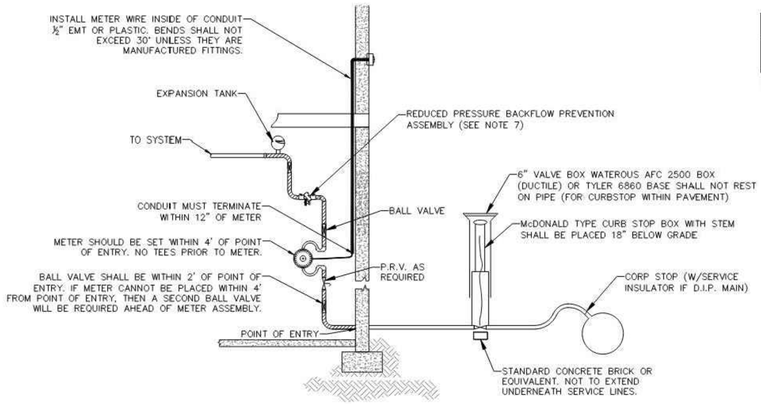
File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C7.10 - PLAN & PROFILE - WATER LINE - A.dwg Plotted by: Jacob Huselton Date: 7/16/2026 11:53 AM



METER LAY LENGTH
¾" x ⅝" = 7 ¾"
1" = 11 ¼"

*LAY LENGTH INCLUDES TWO ⅛" GASKETS

NOTES:

1. METER MUST BE SET WITHIN 4 FEET OF POINT OF ENTRY.
2. INSTALL METER WIRE PROVIDED BY TOWN AT EXTERIOR OF BUILDING NO MORE THAN 4 FEET BACK FROM FRONT AND 4 FEET ABOVE FINISHED GRADE. METER WIRE SHALL NOT BE BLOCKED BY FENCE OR LANDSCAPING. LEAVE WIRE LONG ENOUGH TO FREELY MOVE 2 FEET IN AND OUT OF EXTERIOR WALL. WIRE CANNOT BE PINCHED AT EXTERIOR WALL. TOTAL LENGTH OF WIRE SHALL NOT EXCEED 50 FEET.
3. BALL VALVE, PN: B21-333
4. METER WILL BE PROVIDED BY THE TOWN AND INSTALLED BY THE CONTRACTOR.
5. BALL VALVE, PN: B11-333 (FORD)
6. PRV MUST BE INSTALLED PER PLUMBING CODE.
7. REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY, HORIZONTAL INSTALLATION. CALL CASTLE ROCK WATER FOR OTHER INSTALLATION ORIENTATIONS. THERE SHALL BE NO TEES PRIOR TO THIS POINT.
8. NUMBER 2 METER YOKE PN: CH88-233 (1" - V82 FORD METER BOX CO.)
9. CURB STOP SHALL BE PLACED IN THE UTILITY EASEMENT OR ROW. REFER TO DETAIL W-40.
10. INSTALL EXPANSION TANK (2 GAL. MIN.) OR THERMAL EXPANSION RELIEF VALVE, AS REQUIRED BY PLUMBING CODE.
11. 3/4-INCH & 1-INCH TYPE K COPPER - INSTALLED CONTINUOUS FROM CURB STOP TO EXPANSION TANK AND INSULATED WITH POLYWRAP.
12. METERS WILL NOT BE SET IF CURB STOP BOX IS NOT UP TO FINISHED GRADE, IF WIRE IS MISSING OR IN WRONG AREA, OR IF AN ASSEMBLY IS NOT IN PLACE.
13. METER SHALL NOT BE LOCATED IN A CRAWL SPACE.
14. TRACER WIRE SHALL BE INSTALLED ON ALL WATER MAINS. REFER TO TOWN OF CASTLE ROCK STANDARD TRACER WIRE REQUIREMENTS UNDER GENERAL NOTES.

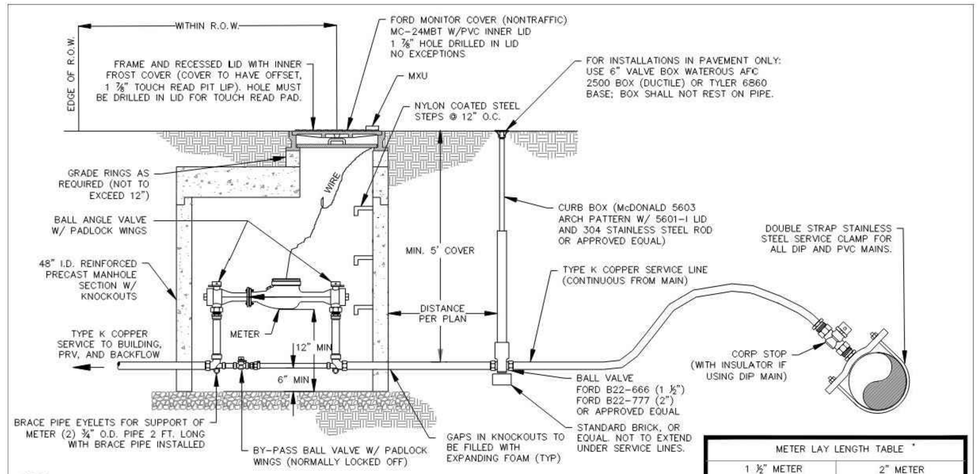
Sheet Revisions	
Date	Comments
3/20	REVISED PER STAFF COMMENTS
10/20	REVISED PER STAFF COMMENTS
10/22	REVISED PER STAFF COMMENTS

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

¾" AND 1" INSIDE COMMERCIAL WATER METER SET

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
W-1B
Sheet 1 of 1



METER LAY LENGTH TABLE *	
1 ½" METER	2" METER
13 ¼"	15 ½"

*LENGTH INCLUDES TWO (2) ⅛" GASKETS

NOTES:

1. FLANGED METER AND WIRE SHALL BE SUPPLIED BY THE TOWN AND INSTALLED BY THE CONTRACTOR.
2. FORD 1 ½" CUSTOMSETTER 1 ½"-VBB76-12B-11-66-NL & C84-66ONL; 2" METER 2"-VBB77-12B-11-77-NL & C84-77QNL WITH BYPASS.
3. METER WILL NOT BE SET IF CURB STOP BOX IS NOT UP TO GRADE, IF WIRE IS IN THE WRONG AREA OR IF AN ASSEMBLY IS NOT IN PLACE.
4. THERMAL EXPANSION REQUIRED ON POTABLE SERVICES, NOT REQUIRED ON IRRIGATION SERVICES.
5. WHEN INSTALLING SENSUS OMNI METERS WITH STRAINER, A MINIMUM OF 2 ½ PIPE DIAMETERS OF STRAIGHT RUN PIPE OR EQUIVALENT FULL OPEN COMPONENTS IS REQUIRED UPSTREAM AND DOWNSTREAM OF THE METER OR STRAINER FLANGES. FULL OPEN FLOW COMPONENTS MAY CONSIST OF: STRAIGHT PIPE, FULL OPEN GATE VALVES, BYPASS TEES AND CONCENTRIC REDUCERS (1 NOMINAL PIPE SIZE REDUCTION ONLY). FOR ALL OTHER INSTALLATION CONFIGURATIONS, A MINIMUM OF 5 PIPE DIAMETERS OF STRAIGHT RUN IS REQUIRED UPSTREAM.
6. ALL COPPER PIPES REQUIRE A POLYWRAP SLEEVE TAPED DOWN AT BENDS AND AROUND CORP STOPS.
7. ALL SERVICES SHALL BE INSTALLED WITH BEDDING MATERIAL A MINIMUM OF 4" ABOVE AND BELOW THE PIPE.

Sheet Revisions	
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3/20	REVISED PER STAFF COMMENTS
6/22	REVISED PER STAFF COMMENTS

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1-1/2 INCH & 2 INCH POTABLE WATER SERVICES

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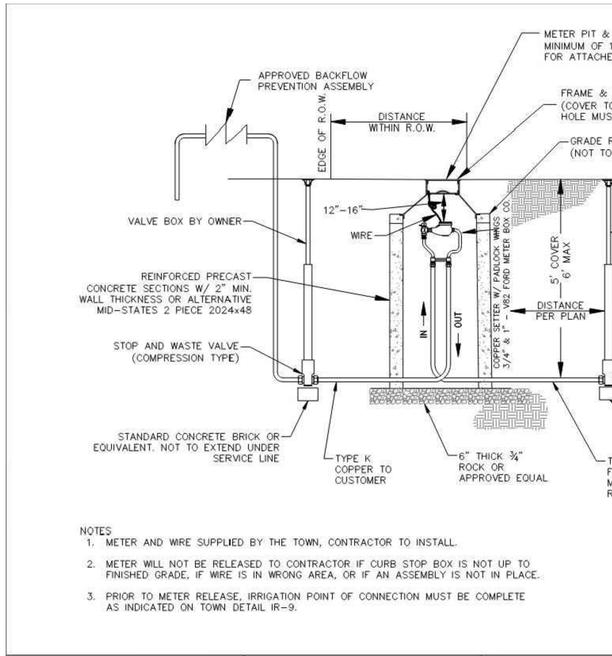
DETAIL PLAN NO.
W-3
Sheet 1 of 1



NOTES

1. METER AND WIRE SUPPLIED BY THE TOWN, CONTRACTOR TO INSTALL.
2. METER WILL NOT BE RELEASED TO CONTRACTOR IF CURB STOP BOX IS NOT UP TO FINISHED GRADE, IF WIRE IS IN WRONG AREA, OR IF AN ASSEMBLY IS NOT IN PLACE.
3. PRIOR TO METER RELEASE, IRRIGATION POINT OF CONNECTION MUST BE COMPLETE AS INDICATED ON TOWN DETAIL IR-9.

METER LAY LENGTH
3/4" = 7 3/4"
1" = 11 1/4"

*LAY LENGTHS INCLUDE TWO 1/8" GASKETS

Sheet Revisions	
Date	Comments
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12/21	REVISED PER STAFF COMMENTS

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100 N. Wilcox St.
Castle Rock, CO 80104
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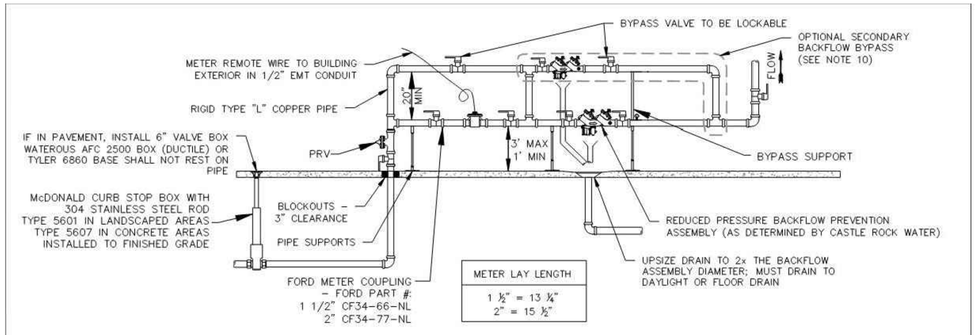
3/4 INCH & 1 INCH IRRIGATION METERS

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
W-4A
Sheet 1 of 1



METER LAY LENGTH
1 ½" = 13 ¼"
2" = 15 ½"

NOTES:

1. INSTALL METER IN HORIZONTAL PLANE W/ METER SET UPRIGHT ONLY.
2. NO GATE OR BUTTERFLY VALVES ON 1 1/2" OR 2" SERVICE. USE 1/4 TURN BALL VALVES WITH HANDLE. BYPASS MUST BE LOCKABLE WITH PADLOCK PROVIDED BY CASTLE ROCK WATER.
3. METER AND WIRE PROVIDED BY THE TOWN. CONTRACTOR TO INSTALL METER AND WIRE.
4. BACKFLOW PREVENTION ASSEMBLIES MUST HAVE TEN (10) PIPE DIAMETERS UPSTREAM FROM NEAREST FITTING & THREE (3) PIPE DIAMETERS DOWNSTREAM TO NEXT FITTING.
5. IF WIRE EXITS THROUGH MASONRY, IT MUST BE PLACED INSIDE A CONDUIT.
6. REDUCED PRESSURE BACKFLOW PREVENTORS, AS DETERMINED BY CASTLE ROCK WATER, SHALL CONFORM TO THE COLORADO CROSS CONNECTION CONTROL MANUAL AND THE FOUNDATION FOR CROSS CONNECTION CONTROL HYDRAULIC RESEARCH FOR PROPER APPLICATION, INSTALLATION AND INSPECTION. MIN CLEARANCE 12", MAX CLEARANCE 36" FROM FLOOR. MIN SIDE CLEARANCE WHEN TEST COCK FACES A WALL 24". WHEN TEST COCKS FACE AWAY FROM WALL MIN CLEARANCE 12". NO ELECTRICAL COMPONENTS IN THE SAME GENERAL AREA AS THE BACKFLOW ASSEMBLY. CONTRACTOR TO PROVIDE PASSING TEST RESULTS ON ALL BACKFLOW PREVENTION ASSEMBLIES TO CASTLE ROCK WATER.
7. METER AND BYPASS ASSEMBLY SHALL BE SECURED PROPERLY.
8. PLEASE SEE DETAIL W-40 IF CURBSTOP IS LOCATED IN CONCRETE.
9. METERS WILL NOT BE SET IF CURB STOP BOX IS NOT UP TO FINISHED GRADE OR IF AN ASSEMBLY IS NOT IN PLACE. METER SHALL NOT BE LOCATED IN A CRAWL SPACE.
10. IF CONTINUOUS WATER SERVICE IS REQUIRED DURING BACKFLOW TESTING, A SECONDARY BACKFLOW BYPASS WILL BE REQUIRED.

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INSIDE 1 ½ INCH & 2 INCH METER SET

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DETAIL PLAN NO.
W-6B
Sheet 1 of 1

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
WATER DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

DATE	REVISIONS	BY

ISSUE DATE: 7/16/26

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

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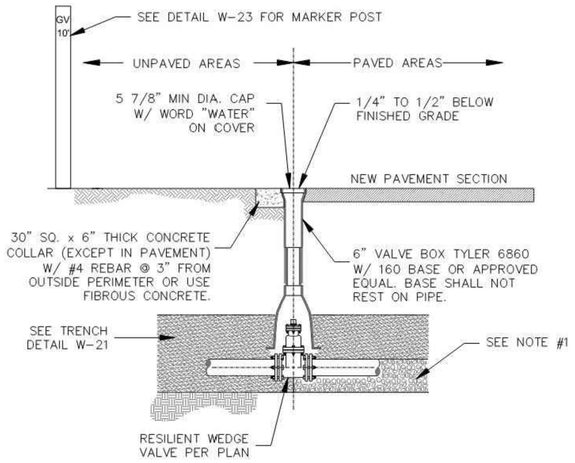
C7.50
19 of 44

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\C7's\C7.50 -WATER DETAILS.dwg Plotted by: Jacob Huselton Date: 7/16/2026 11:54 AM



NOTES:

1. CARE SHALL BE TAKEN WHEN INSTALLING VALVES TO ASSURE PROPER SUPPORT OF THE VALVE. THE ENGINEER MAY REQUIRE 3/4" CRUSHED ROCK TO BE INSTALLED UNDER THE VALVE TO PROVIDE PROPER SUPPORT.
2. VALVES SHALL NOT BE PLACED IN CONCRETE CROSS PANS, GUTTERS, OR OTHER DRAINAGE WAYS.
3. OPERATING NUTS OR EXTENSIONS SHALL NOT BE SET CLOSER THAN THREE (3) FEET FROM FINISHED GRADE. IF OPERATING NUT IS DEEPER THAN FIVE (5) FEET FROM FINAL GRADE, PROVIDE A 1 1/4" EXTENSION SHAFT W/ CENTERING RING. OPERATOR EXTENSIONS SHALL BE CONNECTED TO THE VALVE OPERATOR NUT USING A SET SCREW.
4. GATE VALVE SHALL BE POLYETHYLENE WRAPPED (8 MIL).
5. CONCRETE COLLARS & MARKER POSTS ARE REQUIRED WHEN VALVE IS LOCATED IN AN UNPAVED AREA.
6. VALVE BOXES ARE TO BE BROUGHT UP TO GRADE @ THE TIME OF PAVEMENT PLACEMENT OR OVERLAY. VALVE BOX ADJUSTING RINGS ARE NOT ALLOWED.
7. SEE DETAILS W-13 & W-14 FOR TYPICAL VALVE LOCATIONS.
8. TRACER WIRE SHALL BE ROUTED AROUND TO NORTH OR EAST OF VALVE BOX (SEE DETAIL W-28).

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Town of Castle Rock
100 N. Wilcox St.
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TYPICAL VALVE BOX

DETAIL PLAN NO. W-10

Issued By: Town of Castle Rock, Development Services January 1, 2023

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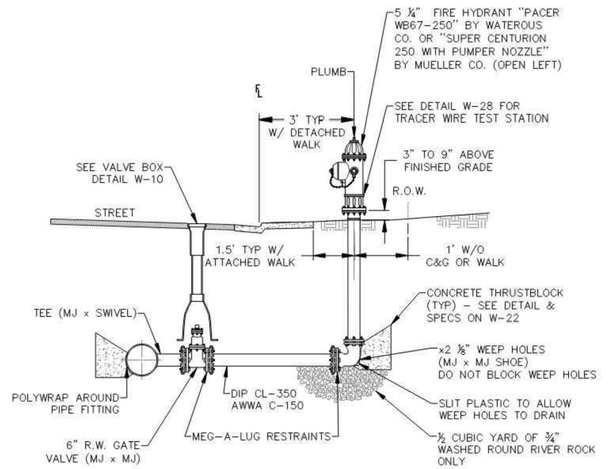

NOTES:

1. ALL HYDRANTS SHALL BE PAINTED "SAFETY YELLOW" FROM THE FACTORY. FIELD RE-PAINTING MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR.
2. THE CONNECTIONS SHALL BE 2 TO 2 ½" NOZZLES AND 1 TO 5 ½" PUMPER NOZZLE. ALL THREADS TO BE NATIONAL STANDARD W/ 1 ½" PENTAGONAL CAP NUTS. ALL HYDRANTS SHALL BE AWWA C-502-94 STANDARD OPEN LEFT.
3. NO TAPS SHALL BE ALLOWED BETWEEN THE HYDRANT & THE MAIN.
4. THE ENTIRE FIRE HYDRANT ASSEMBLY SHALL BE WRAPPED W/ 8 MIL POLYETHYLENE, INCLUDING THE RISER PORTION, TO FINISHED GRADE. CUT HOLE IN WRAP AT WEEP HOLE.
5. ALL FIRE HYDRANTS SHALL BE INSTALLED PLUMB & LOCATED ACCORDING TO PROJECT PLANS.
6. SEE FIRE HYDRANT LOCATION DETAILS W-13 & W-14 FOR PROPER LOCATION RELATIVE TO OTHER IMPROVEMENTS & REFER TO APPROVED PLANS.
7. THE MECHANICAL JOINTS OF THE FIRE HYDRANT ASSEMBLY SHALL BE RESTRAINED VIA MEG-A-LUG JOINT CLAMPS.
8. NO MORE THAN ONE HYDRANT EXTENSION, NOT TO EXCEED 24" MAY BE USED. OVERALL HEIGHT MAY NOT EXCEED 8'.
9. A TRACER WIRE TEST STATION IS REQUIRED; REFER TO DETAIL W-28.
10. FOR BURY DEPTHS GREATER THAN 8' REFER TO DETAIL W-11A.

TYPICAL JOINT RESTRAINT
DETAIL FOR MULTIPLE JOINT
ASSEMBLIES (NOT TO SCALE)

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FIRE HYDRANT ASSEMBLY

DETAIL PLAN NO. W-11

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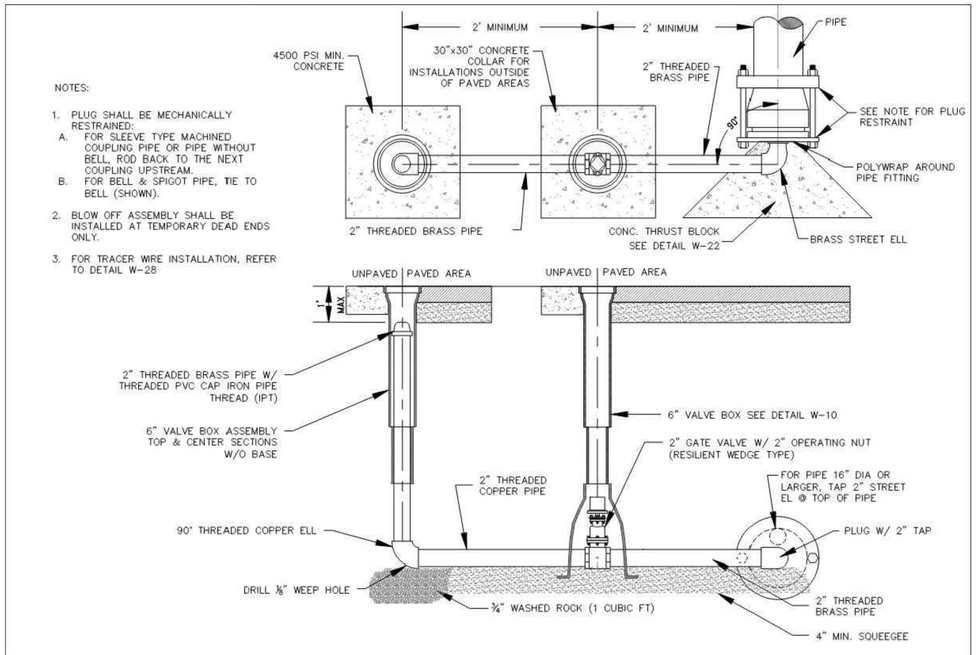

NOTES:

1. PLUG SHALL BE MECHANICALLY RESTRAINED:
   A. FOR SLEEVE TYPE MACHINED COUPLING PIPE OR PIPE WITHOUT BELL, ROD BACK TO THE NEXT COUPLING UPSTREAM.
   B. FOR BELL & SPIGOT PIPE, TIE TO BELL (SHOWN).
2. BLOW OFF ASSEMBLY SHALL BE INSTALLED AT TEMPORARY DEAD ENDS ONLY.
3. FOR TRACER WIRE INSTALLATION, REFER TO DETAIL W-28.

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6/22	REVISED PER STAFF COMMENTS

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TEMPORARY BLOW-OFF ASSEMBLY

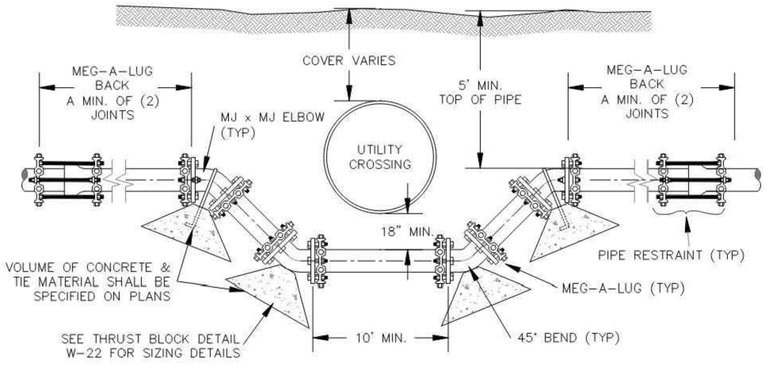
DETAIL PLAN NO. W-16

Issued By: Town of Castle Rock, Development Services January 1, 2023

Sheet 1 of 1

NOTES:

1. WHERE WATER LINE COVER EXCEEDS 7'-6" AT THE LOW POINT OF THE CONDUIT CROSSING, VERTICAL BENDS ARE REQUIRED. WHEN COVER IS LESS THAN 7'-6", PIPE JOINTS MAY BE DEFLECTED 1/2 THE MANUFACTURER'S RECOMMENDED DEFLECTION IN LIEU OF VERTICAL BENDS. THE LIMITS OF THE DEPRESSED AREA SHALL BE DOCUMENTED ON THE "AS-BUILT" DRAWINGS.
2. IF UTILITY CROSSING IS SANITARY SEWER & IS OVER A RAW OR POTABLE WATER LINE, ALL UTILITY CROSSING JOINTS WITHIN 10' SHALL BE ENCASED 1' BOTH SIDES OF THE JOINT W/ CONCRETE. SEE ENCASEMENT DETAIL W-20.
3. MULTIPLE JOINTS BETWEEN MEG-A-LUG FITTINGS SHALL BE RESTRAINED.
4. SEE PIPE RESTRAINT TABLE (DETAIL W-18) FOR SPECIFICATIONS.
5. NO TEES, SERVICE CONNECTIONS, VALVES, OR FIRE HYDRANT CONNECTIONS ARE ALLOWED IN LOWERING.
6. PIPE MATERIAL IN LOWERED SECTION SHALL MATCH THE MAIN LINE.



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Development Services

WATERLINE LOWERING

DETAIL PLAN NO. W-17

Issued By: Town of Castle Rock, Development Services January 1, 2023

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PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
WATER DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
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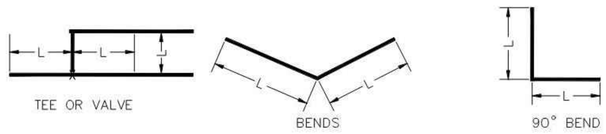
LENGTH OF RESTRAINED PIPE

PIPE SIZE	4"	6"	8"	12"	16"	20"	24"
FITTING	L	L	L	L	L	L	L
90° BEND, TEE, PLUG OR VALVE	30'	45'	60'	86'	108'	132'	155'
45° BEND	M1	13'	18'	25'	32'	39'	45'
22 1/2° BEND	M1	M1	M1	M1	M1	M1	M1
11 1/4° BEND	--	--	M1	M1	M1	M1	M1

LEGEND

L = LENGTH

M1 = MINIMUM OF 1 FULL LENGTH OF PIPE



TEE OR VALVE BENDS 90° BEND

NOTES:

1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES & BENDS.
2. MINIMUM 5' GROUND COVER REQUIRED.
3. ALL FITTINGS SHALL BE FITTED WITH MEG-A-LUGS.
4. PIPE RESTRAINTS SHALL BE AS FOLLOWS:
   A. D.I.P. – RESTRAINTS FOR STD. MECHANICAL JOINTS SHALL BE OF HIGH STRENGTH DUCTILE IRON CONFORMING TO ASTM A536, GRADE 65-45-12. MECH. JOINTS SHALL HAVE A WATER WORKING PRESSURE OF 100 P.S.I. MINIMUM AND SHALL BE EBBA IRON INC., MEG-A-LUG SERIES 1100, FORD METER BOX CO., UNI-FLANGE 1400 OR APPROVED EQUAL.
   B. PVC – RESTRAINT DEVICES SHALL BE MANUFACTURED OF HIGH STRENGTH DUCTILE IRON, ASTM A536,GRADE 65-45-12 IN 2" – 24" SIZES, ASTM A36 IN SIZES 30" – 36". FULL RATED PRESSURE OF THE PVC PIPE AND SHALL BE EBBA IRON INC., MEG-A-LUG SERIES 1100 FORD METER BOX, UNI-FLANGE 1400 OR APPROVED EQUAL.

Sheet Revisions	
Date	Comments
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Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

PIPE RESTRAINT TABLE

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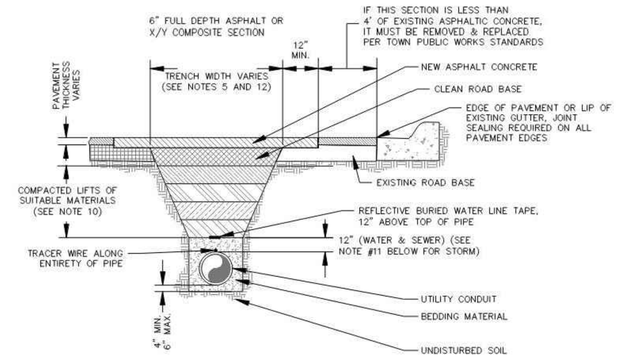
DETAIL PLAN NO. W-18

Sheet 1 of 1

NOTES:

1. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THIS DETAIL UNLESS OTHERWISE SPECIFIED BY PUBLIC WORKS.
2. PRIOR TO PLACEMENT OF CONCRETE, ALL EDGES SHALL BE SAW CUT TO A CLEAN, STRAIGHT, AND VERTICAL EDGE.
3. PRIOR TO PLACEMENT OF ASPHALT, 18 INCHES OF ADJACENT ASPHALT SHALL BE MILLED TO 2 INCH DEPTH ON ALL SIDES TO MATCH EXISTING PAVEMENT. INNER SURFACE TO BE TACKED WITH HSS-1.
4. WHEN SUBSTITUTING FOR BACKFILL MATERIAL, FLOWABLE FILL SHALL CONFORM TO MGPEC CLSM STANDARDS.
5. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE DIAMETER OF THE PIPE.
6. 95% OF ASTM D698 STANDARD COMPACTION EFFORT IS REQUIRED ON ALL TRENCHING ZONES, IN BOTH IMPROVED & UNIMPROVED AREAS.
7. IN UNIMPROVED AREAS, ALL DISTURBED AREAS SHALL BE REGRADED, SEEDED & MULCHED.
8. IN CONCRETE ROADWAYS, A MINIMUM OF 1/2 PANEL WIDTH OR 10' x 5' SECTION WILL BE ALLOWED TO REMAIN, OTHERWISE THE ENTIRE CONCRETE PANEL MUST BE REPLACED.
9. USE #4 REBAR AT 2' CENTERS ALONG THE PERIMETER OF CONCRETE REPLACEMENT SECTIONS.
10. 6" MAXIMUM COMPACTED LIFT THICKNESS IF FLOWABLE FILL NOT REQUIRED.
11. BEDDING MATERIAL DEPTH WHEN INSTALLING STORM SEWER SHALL BE UP TO SPRING LINE, EXCEPT IN AREAS OF UNSUITABLE BACKFILL, THEN BEDDING MATERIAL SHALL BE 12" ABOVE PIPE.
12. TRENCH WIDTHS LESS THAN 4' OR TRENCHING THAT EXPERIENCES CAVE-INS OR SLOUGHING SHALL REQUIRE FLOWABLE FILL IN ORDER TO ACHIEVE COMPACTION.



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WATER TRENCH DETAIL

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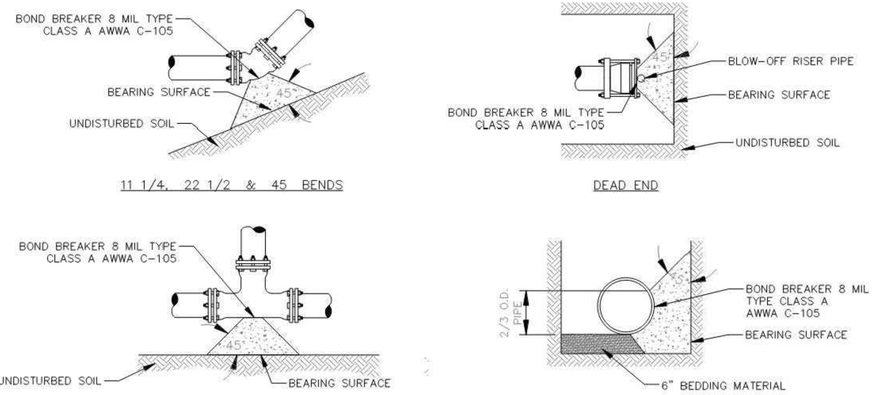
DETAIL PLAN NO. W-21

Sheet 1 of 1



NOTES:

1. BEARING AREAS SHOWN ON THE CHART ARE MINIMUM AREAS & ARE DESIGNED USING THE FOLLOWING CRITERIA:
   A. INTERNAL WORKING PRESSURE OF 150 PSI.
   B. TRANSIENT (WATER HAMMER) PRESSURE OF 120 PSI FOR 4", 6" & 8" DIAMETER LINES, 110 PSI FOR 12" LINES, & 70 PSI FOR 20" LINES.
   C. THRUSTBLOCK CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4500 PSI.
2. ALL SIZES OF BENDS, TEES & DEAD ENDS SHALL HAVE CONCRETE THRUSTBLOCKS.
3. THRUSTBLOCKS ARE NOT A SUBSTITUTE FOR JOINT RESTRAINT.

MINIMUM BEARING SURFACE AREA

(IN SQUARE FEET)

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11 1/4°	22 1/2°	45°	90°	
6"	2.00	2.00	2.25	4.25	3.00
8"	2.00	2.00	4.00	8.00	5.25
12"	2.00	4.25	8.25	12.00	11.00
16"	3.50	6.50	12.50	23.00	16.50
20"	5.00	10.00	19.50	35.50	25.00

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3/20	REVISED PER STAFF COMMENTS
6/22	REVISED PER STAFF COMMENTS

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HORIZONTAL BEND THRUSTBLOCKS

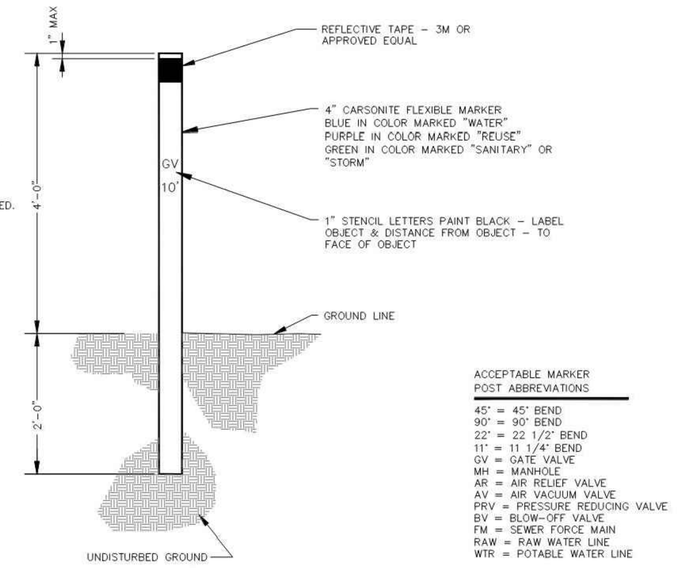
Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO. W-22

Sheet 1 of 1

NOTES:

1. USE MARKER POST IN AREAS WHERE UTILITY CANNOT BE LOCATED FROM OTHER IMPROVEMENTS.
2. SET POST 3 FEET MIN. AND 5 FEET MAX. FROM THE ASSET TO BE MARKED.



ACCEPTABLE MARKER POST ABBREVIATIONS

45° = 45° BEND
90° = 90° BEND
22° = 22 1/2° BEND
11° = 11 1/4° BEND
GV = GATE VALVE
MH = MANHOLE
AR = AIR RELIEF VALVE
AV = AIR VACUUM VALVE
PRV = PRESSURE REDUCING VALVE
BV = BLOW-OFF VALVE
FM = SEWER FORCE MAIN
RAW = RAW WATER LINE
WTR = POTABLE WATER LINE

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MARKER POST

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO. W-23

Sheet 1 of 1

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

WATER DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

DATE	REVISIONS	BY

ISSUE DATE: 7/16/26

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:

C7.52

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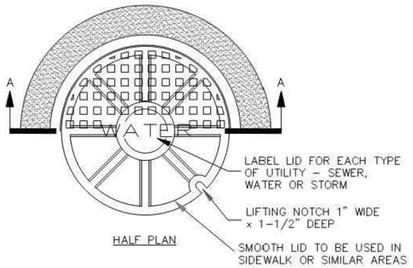
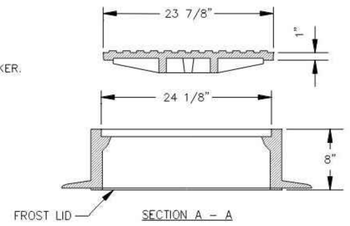
File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C7.50 -WATER DETAILS.dwg Plotted by: Jacob Huselton Date: 7/16/2026 11:54 AM



HALF PLAN

NOTES:

1. CASTING SPECIFICATIONS: ASTM A-48 WITH A MINIMUM TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1706 RING AND COVER OR EQUIVALENT).
2. H-20 DESIGN LOAD RATING IS REQUIRED.
3. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE WITHIN DRAINAGE WAYS.
4. STANDARD MANUFACTURER'S LETTERING SIZES & PATTERNS. (LETTERING SHALL BE CAST AS PART OF COVER).
5. MANHOLES PLACED OUTSIDE OF ROW MUST HAVE CARSONITE MARKER.



SECTION A – A

Sheet Revisions	
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Town of Castle Rock
100 N. Wilcox St.
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WATER MANHOLE 24 INCH RING & COVER

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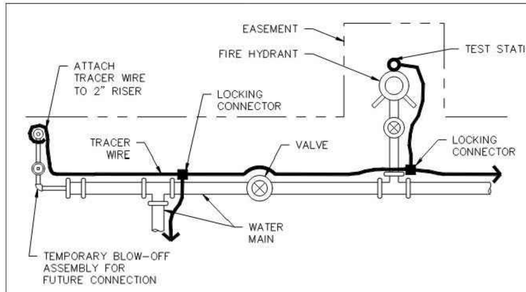
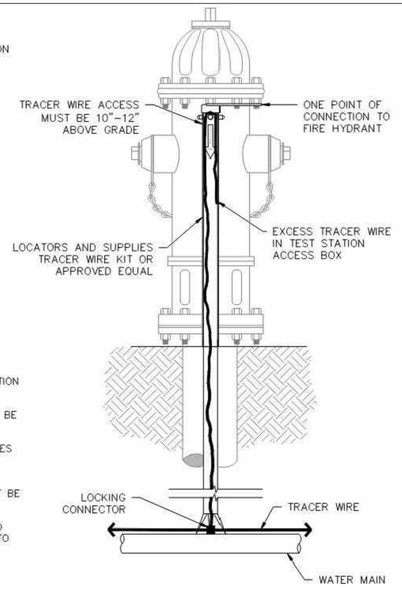
DETAIL PLAN NO.
W-26
Sheet 1 of 1



TRACER WIRE SAMPLE PLAN

NOTES:

1. REFER TO STANDARD NOTES FOR TOWN OF CASTLE ROCK GENERAL TRACER WIRE REQUIREMENTS. FOR TEST STATION AT MANHOLE, REFER TO DETAIL SD-5.
2. TRACER WIRE AND TEST STATION LIDS SHALL BE BLUE FOR POTABLE WATER DISTRIBUTION SYSTEM AND PURPLE FOR RECLAIMED OR RAW WATER COMPONENTS.
3. TRACER WIRE IN PLAN IS SHOWN AWAY FROM PIPE FOR CLARITY. TRACER WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5-FOOT INTERVALS.
4. TRACER WIRE SHALL BE LAID CONTINUOUSLY, PASSING AROUND THE OUTSIDE OF VALVES AND FITTINGS ON THE NORTH OR EAST SIDE.
5. TEST STATIONS SHALL BE INSTALLED AT EVERY FIRE HYDRANT, AS SHOWN, OR AT A MINIMUM INTERVAL OF 500 FEET. TEST STATIONS NOT LOCATED NEAR HYDRANTS MUST BE PLACED BEHIND EDGE OF PAVEMENT.
6. AT ALL TEMPORARY BLOW-OFFS, THE END OF THE TRACER WIRE SHALL BE CONTAINED WITHIN A CORROSION PREVENTION CAP, THEN BROUGHT TO SURFACE AND ATTACHED TO THE RISER PIPE AT GRADE WITHIN THE EASEMENT OR R.O.W.
7. TEST STATIONS SHALL LIE WITHIN UTILITY EASEMENT OR PUBLIC R.O.W.
8. PROVIDE ADEQUATE LENGTH OF TRACER WIRE TO EXTEND 12 INCHES ABOVE GRADE.
9. TEST STATIONS NOT LOCATED AT A FIRE HYDRANT MUST BE AT GRADE WITH LOCKING LID.



FIRE HYDRANT TRACER WIRE DETAIL

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TRACER WIRE DETAIL

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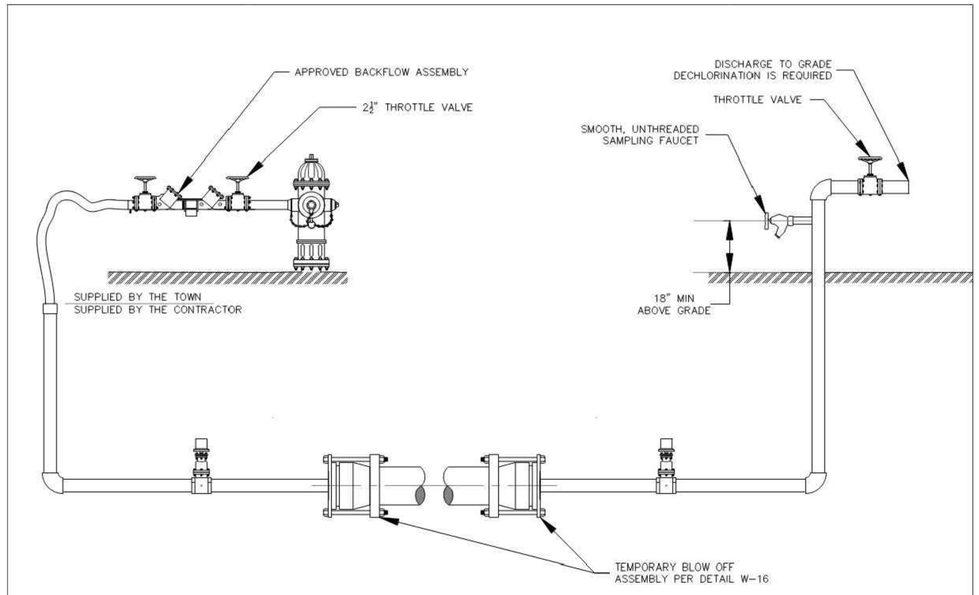
DETAIL PLAN NO.
W-28
Sheet 1 of 1



Sheet Revisions	
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100 N. Wilcox St.
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MAIN DISINFECTION UP TO 12"

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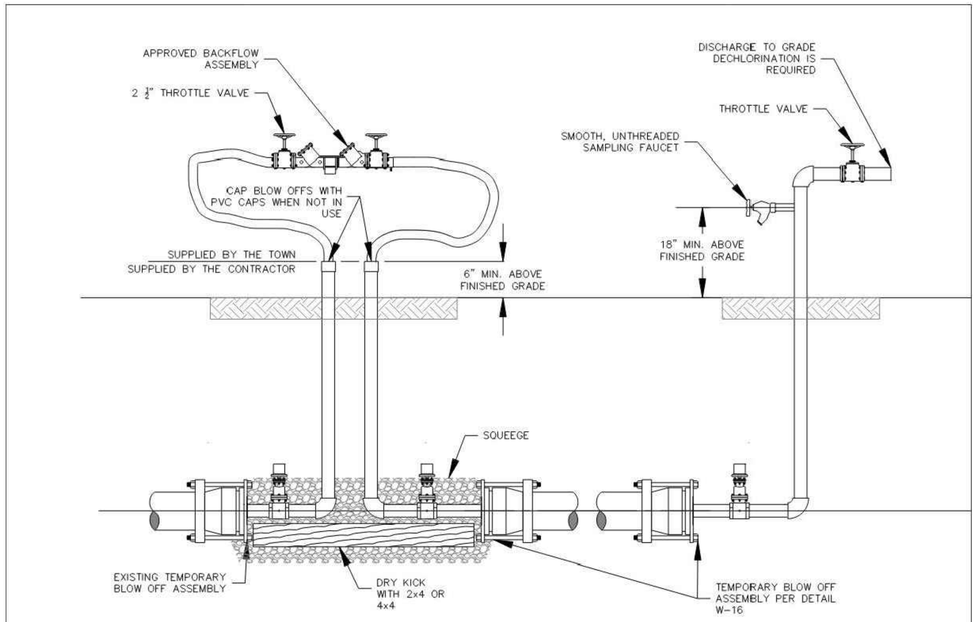
DETAIL PLAN NO.
W-35A
Sheet 1 of 1



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MAIN DISINFECTION UP TO 12"

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
W-35B
Sheet 1 of 1

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6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
WATER DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C7.53
22 of 44

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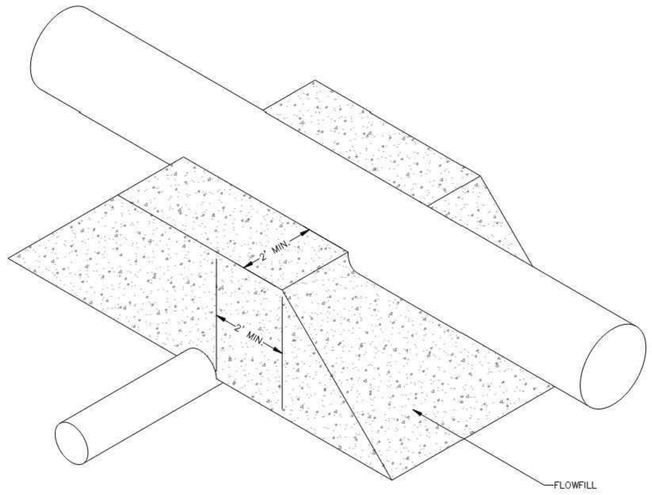

NOTES:

1. PIPES MUST BE WRAPPED WITH POLYETHYLENE TUBING.
2. FLOWFILL SHALL EXTEND TO OR BEYOND PIPE SPRINGLINES.

Sheet Revisions	
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PIPE CROSSING WITH FLOW FILL

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
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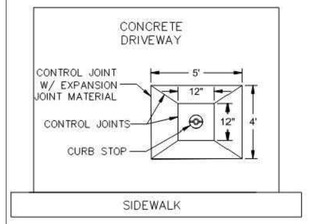
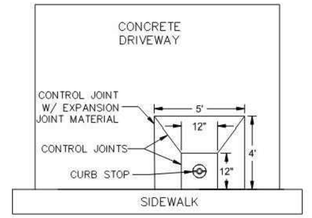
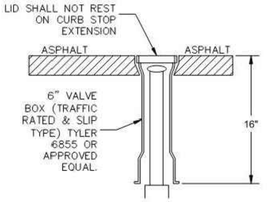
Sheet 1 of 1



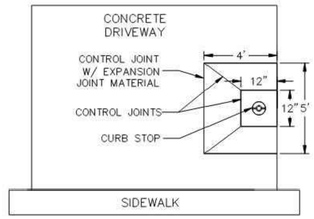
CURB STOP IN CONCRETE DRIVEWAY



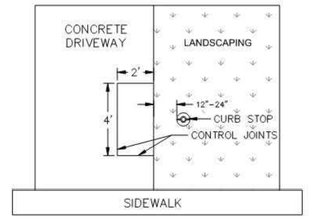
CURB STOP IN CONCRETE DRIVEWAY AT EDGE OF SIDEWALK



CURB STOP IN ASPHALT



CURB STOP AT EDGE OF CONCRETE DRIVEWAY



CURB STOP 12 TO 24 INCHES FROM PAVEMENTS (OTHER THAN SIDEWALK)

NOTES:

1. IN PAVEMENT, DEPRESS CURB STOP APPROXIMATELY ¼" BELOW FINISHED GRADE.
2. A TECHNICAL CRITERIA VARIANCE, FIELD CHANGE ORDER AND/OR ASSOCIATED FEES MAY BE REQUIRED FOR CURB STOPS PLACED IN PAVEMENTS.
3. UNLESS REPAIRS OF TOWN-OWNED INFRASTRUCTURE IS NEEDED, THE PROPERTY OWNER IS RESPONSIBLE FOR PAVEMENT AROUND CURB STOP.
4. CURB STOP SHALL BE McDONALD 5607 w/ 304 STANLESS STEEL ROD OR APPROVED EQUAL.
5. CURB STOPS LOCATED IN RESIDENTIAL DRIVEWAYS WILL REQUIRE A FIELD CHANGE ORDER.
6. CURB STOP SHALL BE PLACED AT THE SAME ELEVATION OF THE SIDEWALK OR AT FINISHED GRADE.

Sheet Revisions	
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CURB STOP IN PAVEMENT

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
W-40
Sheet 1 of 1

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
WATER DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26		
DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C7.54
23 of 44

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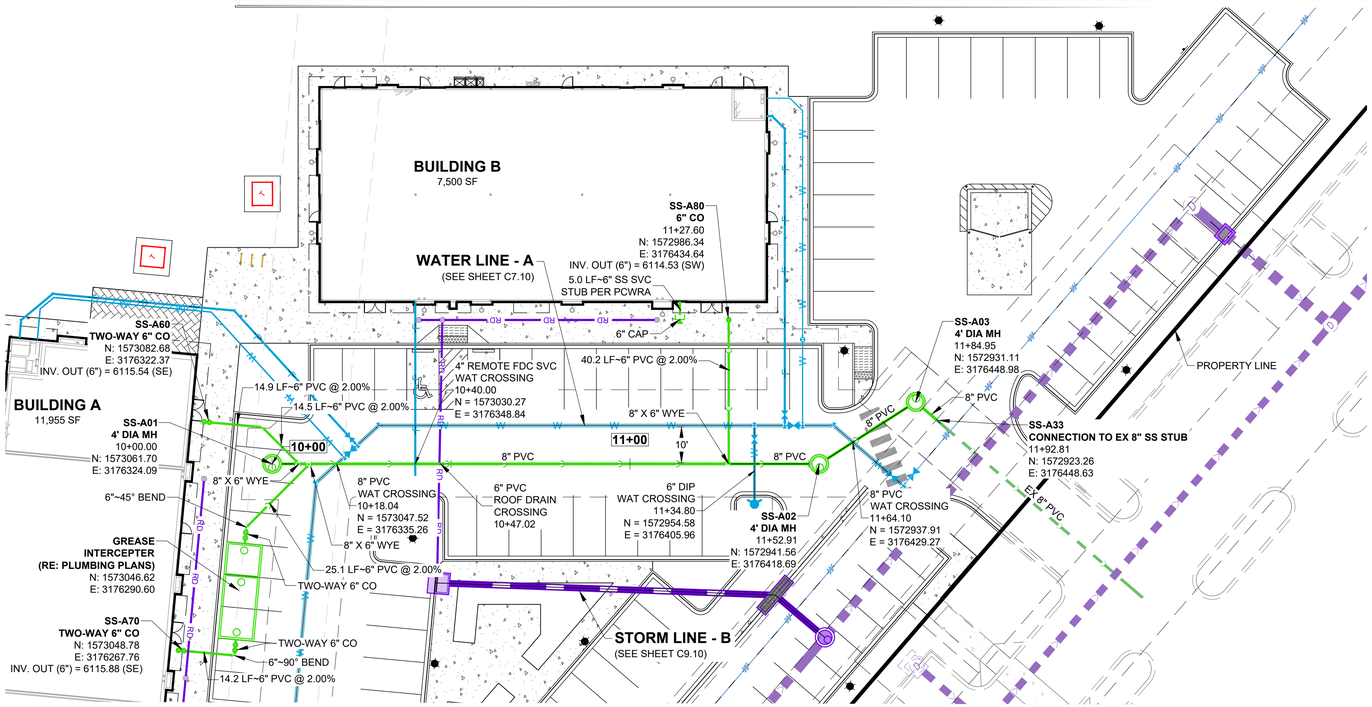
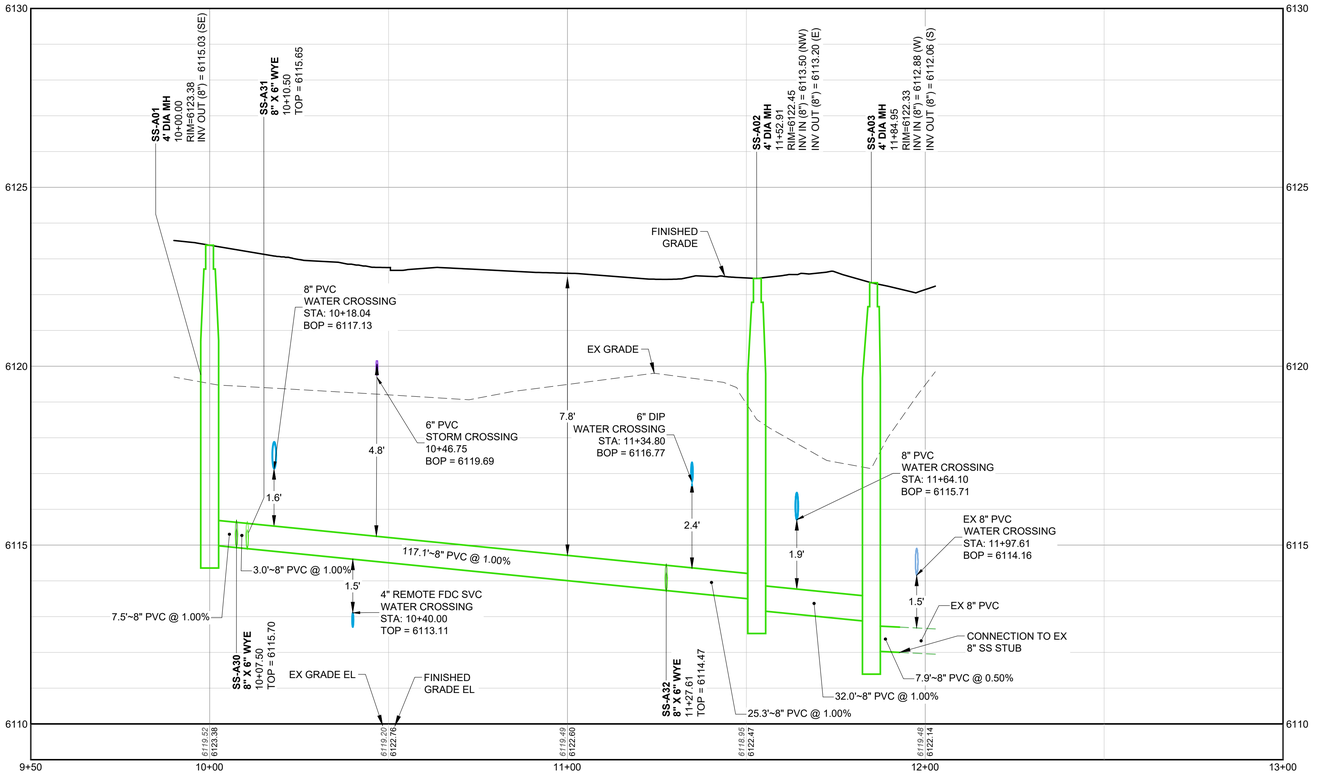


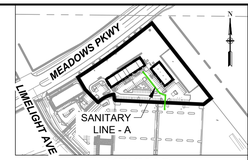
PLAN: SANITARY LINE - A

HORIZONTAL SCALE: 1" = 20'



PROFILE: SANITARY LINE - A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'



KEYMAP

LINETYPE LEGEND

	PROPOSED	EXISTING
FIRE SERVICE	F F F	F F F F
IRRIGATION	IRR IRR	IRR IRR
ROOF DRAIN	RD RD	
SANITARY SEWER		
STORM SEWER		
WATER LINE	W W	W W

SYMBOLS LEGEND

CLEANOUT		
CURB STOP/ CORP STOP		
ELECTRIC METER	EM	EM
FIRE DEPARTMENT CONNECTION		
FIRE HYDRANT		
GAS METER	GM	GM
GATE VALVE		
LIGHT POLE		
ROOF DRAIN	RD	
SANITARY MANHOLE	S	S
STORM INLET		
STORM MANHOLE	D	D
TRANSFORMER	T	T
UTILITY POLE		

NOTE:

1. THE FINAL SIZE AND DESIGN OF THE GREASE INTERCEPTOR SHALL BE IN ACCORDANCE WITH THE PLUM CREEK WATER RECLAMATION AUTHORITY CODE OF RULES AND REGULATIONS

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

PROFESSONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

Know what's below. Call before you dig.

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
PLAN & PROFILE - SANITARY LINE - A

WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

PREPARED FOR:

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
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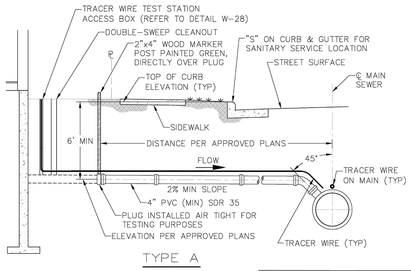
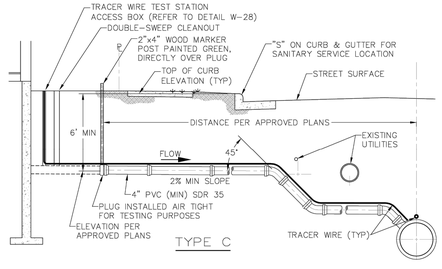
24 of 44

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C8.10 - PLAN & PROFILE - SANITARY LINE - A.dwg Plotted by: Jacob Huselton Date: 7/16/2026 11:54 AM

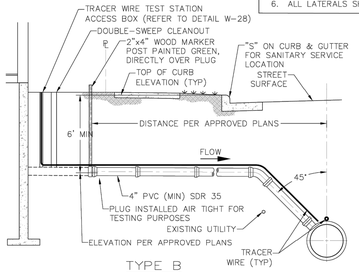


TYPE A

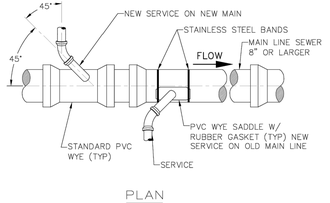


TYPE C

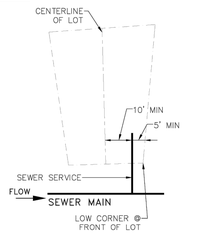
NOTES:
1. TYPE "A" ELEMENTS ARE TYPICAL FOR ALL TYPES UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL LATERALS SHALL BE LOCATED 10' MINIMUM DISTANCE FROM THE DOWNHILL PROPERTY LINE OF THE SERVICE SIDE OF THE LOT, UNLESS OTHERWISE APPROVED BY THE TOWN PRIOR TO INSTALLATION.
3. ALL SEWER LATERAL CONNECTIONS SHALL BE TYPE "A" AND SHALL BE CONSTRUCTED ON A STRAIGHT LINE AND GRADE BETWEEN CONTROL POINTS EXCEPT AS OTHERWISE INDICATED ON THE APPROVED PROJECT PLANS.
4. TRACER WIRE IS REQUIRED FOR ALL SANITARY SEWER MAINS, LATERALS AND MANHOLES.
5. TRACER WIRE SHALL BE BROUGHT UP IN A TRACER WIRE TEST STATION LOCATED BETWEEN CLEANOUT AND FOUNDATION, AND IS TO BE PROVIDED BY THE BUILDER.
6. ALL LATERALS SHALL BE INSTALLED WITH BEDDING MATERIAL A MINIMUM OF 4" ABOVE AND BELOW THE PIPE.



TYPE B



PLAN



SERVICE LOCATION DETAIL

Sheet Revisions	
Date	Comments
3/20	REVISED PER STAFF COMMENTS
12/22	REVISED PER STAFF COMMENTS

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

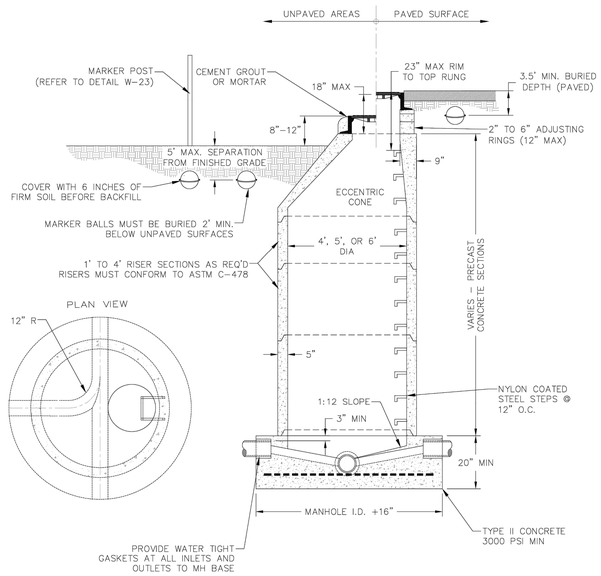
SEWER LATERAL CONNECTIONS

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SS-2
Sheet 1 of 1

PIPE I.D.	MANHOLE I.D.
18" & SMALLER	4'-0"
21" TO 48"	5'-0"
54"	6'-0"
60" & LARGER	SPECIAL DESIGN

NOTES:
1. MANHOLE RISER MINIMUM DIAMETER SHALL CONFORM TO THE TABLE ABOVE.
2. ALL MANHOLES SHALL BE SET ON 1 FOOT OF ¾-INCH CRUSHED ROCK.
3. FLAT CONCRETE MANHOLE TOPS MAY BE USED INSTEAD OF CONE SECTIONS WHERE RIM TO INVERT IS 7'-0" OR LESS.
4. SET EACH SECTION (RISER, CONE, ADJUSTING RINGS) IN A FULL BED OF BITUMINOUS MASTIC (RAMNECK) OR PLASTIC SEALING COMPOUND.
5. MANHOLE STEPS SHALL BE POSITIONED OVER THE BENCH IN A VERTICAL LINE.
6. NO MANHOLE STEPS ARE ALLOWED IN THE ADJUSTING RINGS.
7. ON STRAIGHT THROUGH GRADES, SEWER MAINS MAY BE LAID THROUGH THE MANHOLE AND USED AS THE INVERT. THE TOP ½ PORTION OF THE PIPE SHALL BE CUT AWAY TO A NEAT LINE. ANY BROKEN EDGES SHALL BE PLASTERED SMOOTH WITH CONCRETE MORTAR. IF GRADE IS NOT STRAIGHT THROUGH, THE FLOWLINES AT THE BASE SHALL BE HAND FORMED WHEN THE BASE IS POURED. FLOWLINES SHALL BE GROUND SMOOTH WITH A CONCRETE FINISHING STONE.
8. MANHOLE LID SHALL BE ¼-INCH BELOW ASPHALT AND TIPPED TO CONFORM WITH PAVEMENT SLOPES.
9. PLACE MARKER BALLS EVERY 50 FEET AND AT PIPE JUNCTIONS.
10. PRESSURIZED STORM SEWER PIPES AND SANITARY SEWER FORCE MAINS REQUIRE TRACER WIRE INSTALLATION.



Sheet Revisions	
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Town of Castle Rock
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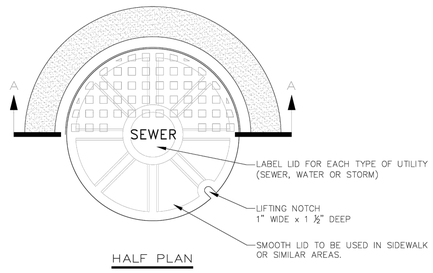
Development Services

SANITARY AND STORM SEWER MANHOLE

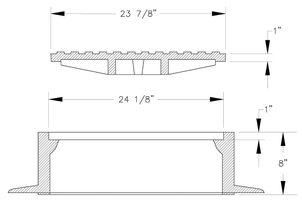
Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SS-3
1 of 1



HALF PLAN

NOTES:
1. CASTING SPECIFICATIONS: ASTM A-48 WITH A MINIMUM TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1706 RING & COVER OR EQUIVALENT).
2. TOTAL MINIMUM WEIGHT APPROXIMATELY 410 LBS.
3. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE WITHIN DRAINAGE WAYS.
4. STANDARD MANUFACTURER'S LETTERING SIZES & PATTERNS. (LETTERING SHALL BE CAST AS PART OF COVER.)
5. MANHOLE OUTSIDE OF R.O.W. MUST HAVE A LOCKING LID AND CARSONITE MARKER.
6. TRACER WIRE REQUIRED FOR ALL SEWER MAINS, LATERALS AND MANHOLES. REFER TO DETAILS SD-5, SS-2, SS-11, AND W-28.



SECTION A – A

Sheet Revisions	
Date	Comments
3/20	REVISED PER STAFF COMMENTS

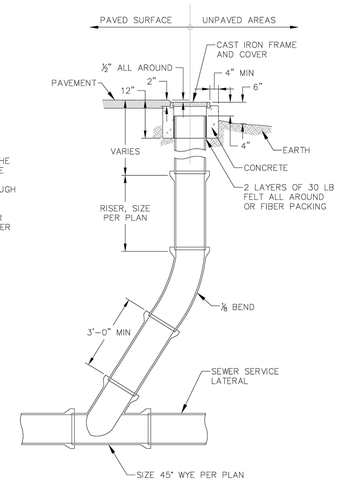
Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

SEWER MANHOLE 24" RING & COVER

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SS-4
Sheet 1 of 1

NOTES:
1. CLEANOUT PIPE DIAMETER SHALL BE THE SAME SIZE AS THE SEWER LINE AT THE WYE.
2. SEWER IS NOT TO BE CONVEYED THROUGH CLEANOUT.
3. CLEANOUT IS FOR PRIVATE USE ONLY.
4. TRACER WIRE REQUIRED FOR ALL SEWER MAINS, LATERALS AND MANHOLES. REFER TO DETAILS SD-5, SS-2, SS-11, AND W-28.



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Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
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Fax: (720) 733-2217
Development Services

SEWER CLEANOUT

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SS-7
Sheet 1 of 1

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
SANITARY SEWER DETAILS

WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

PREPARED FOR:

ISSUE DATE: 7/16/26

DATE	REVISIONS	BY

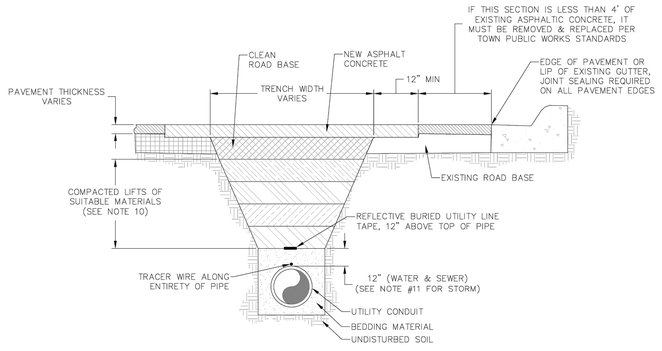
DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C8.50
25 of 44

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C8.50 - SANITARY SEWER DETAILS.dwg Plotted by: Jacob Huselton Date: 7/16/2026 11:54 AM

NOTES:

1. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THIS DETAIL UNLESS OTHERWISE SPECIFIED BY PUBLIC WORKS.
2. PRIOR TO PLACEMENT OF CONCRETE, ALL EDGES SHALL BE SAW CUT TO A CLEAN, STRAIGHT, AND VERTICAL EDGE.
3. PRIOR TO PLACEMENT OF ASPHALT, 18 INCHES OF ADJACENT ASPHALT SHALL BE MILLED TO 2 INCH DEPTH ON ALL SIDES TO MATCH EXISTING PAVEMENT. INNER SURFACE TO BE TACKED WITH HSS-1.
4. WHEN SUBSTITUTING FOR BACKFILL MATERIAL, FLOWABLE FILL SHALL CONFORM TO MGPEC CLSM STANDARDS.
5. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE DIAMETER OF THE PIPE.
6. 95% OF ASTM D698 STANDARD COMPACTION EFFORT IS REQUIRED ON ALL TRENCHING ZONES, IN BOTH IMPROVED & UNIMPROVED AREAS.
7. IN UNIMPROVED AREAS, ALL DISTURBED AREAS SHALL BE REGRADED, SEEDED & MULCHED.
8. IN CONCRETE ROADWAYS, A MINIMUM OF 1/2 PANEL WIDTH OR 10' x 5' SECTION WILL BE ALLOWED TO REMAIN, OTHERWISE THE ENTIRE CONCRETE PANEL MUST BE REPLACED.
9. USE #4 REBAR AT 2' CENTERS ALONG THE PERIMETER OF CONCRETE REPLACEMENT SECTIONS.
10. 6" MAXIMUM COMPACTED LIFT THICKNESS IF FLOWABLE FILL NOT REQUIRED.
11. BEDDING MATERIAL DEPTH WHEN INSTALLING STORM SEWER SHALL BE UP TO SPRING LINE, EXCEPT IN AREAS OF UNSUITABLE BACKFILL, THEN BEDDING MATERIAL SHALL BE 12" ABOVE PIPE.
12. TRENCH WIDTHS LESS THAN 4' OR TRENCHING THAT EXPERIENCES CAVE-INS OR SLOUGHING SHALL REQUIRE FLOWABLE FILL IN ORDER TO ACHIEVE COMPACTION.



Sheet Revisions	
Date	Comments
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8/22	REVISED PER STAFF COMMENTS

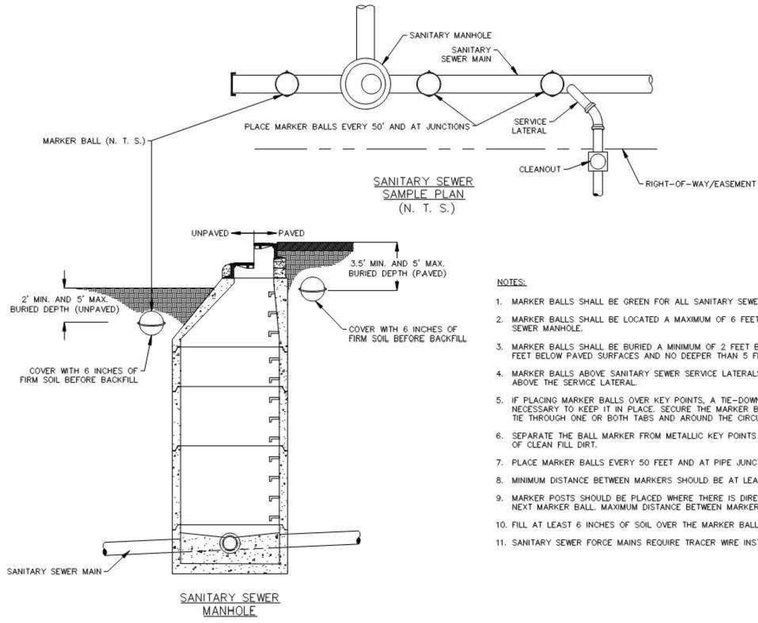
Town of Castle Rock
COLORADO

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

SANITARY SEWER TRENCH DETAIL

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SS-8
Sheet 1 of 1



NOTES:

1. MARKER BALLS SHALL BE GREEN FOR ALL SANITARY SEWER LATERALS AND MANHOLES.
2. MARKER BALLS SHALL BE LOCATED A MAXIMUM OF 6 FEET FROM EVERY SANITARY SEWER MANHOLE.
3. MARKER BALLS SHALL BE BURIED A MINIMUM OF 2 FEET BELOW UNPAVED SURFACES, 3.5 FEET BELOW PAVED SURFACES AND NO DEEPER THAN 5 FEET BELOW FINISHED GRADE.
4. MARKER BALLS ABOVE SANITARY SEWER SERVICE LATERALS MUST BE LOCATED DIRECTLY ABOVE THE SERVICE LATERAL.
5. IF PLACING MARKER BALLS OVER KEY POINTS, A TIE-DOWN PROCEDURE MAY BE NECESSARY TO KEEP IT IN PLACE. SECURE THE MARKER BALL BY INSERTING A CABLE TIE THROUGH ONE OR BOTH TABS AND AROUND THE CIRCUMFERENCE OF THE PIPE.
6. SEPARATE THE BALL MARKER FROM METALLIC KEY POINTS WITH A MINIMUM OF 4 INCHES OF CLEAN FILL DIRT.
7. PLACE MARKER BALLS EVERY 50 FEET AND AT PIPE JUNCTIONS.
8. MINIMUM DISTANCE BETWEEN MARKERS SHOULD BE AT LEAST 6 FEET.
9. MARKER POSTS SHOULD BE PLACED WHERE THERE IS DIRECT LINE OF SIGHT TO THE NEXT MARKER BALL. MAXIMUM DISTANCE BETWEEN MARKER POSTS SHOULD BE 400 FEET.
10. FILL AT LEAST 6 INCHES OF SOIL OVER THE MARKER BALL BEFORE BACKFILL.
11. SANITARY SEWER FORCE MAINS REQUIRE TRACER WIRE INSTALLATION.

Sheet Revisions	
Date	Comments
12/21	REVISED PER STAFF COMMENTS
10/22	REVISED PER STAFF COMMENTS

Town of Castle Rock
COLORADO

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
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Development Services

MARKER BALLS FOR SANITARY SEWERS

Issued By: Town of Castle Rock, Development Services January 1, 2023

DETAIL PLAN NO.
SS-11
Sheet 1 of 1

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
SANITARY SEWER DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C8.51
26 of 44

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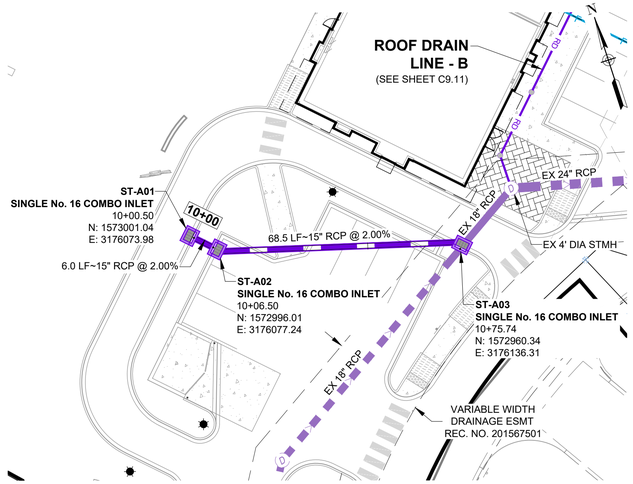
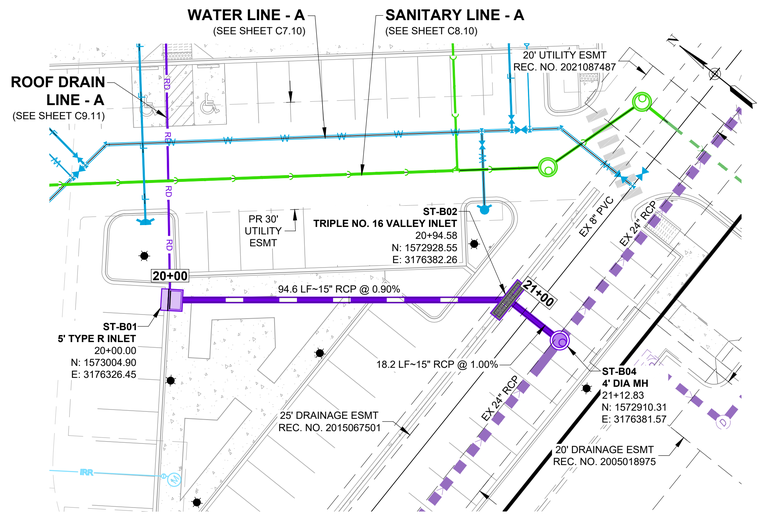


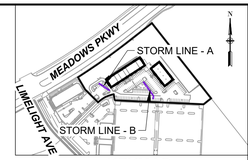
PLAN: STORM LINE - A

HORIZONTAL SCALE: 1" = 20'



PLAN: STORM LINE - B

HORIZONTAL SCALE: 1" = 20'



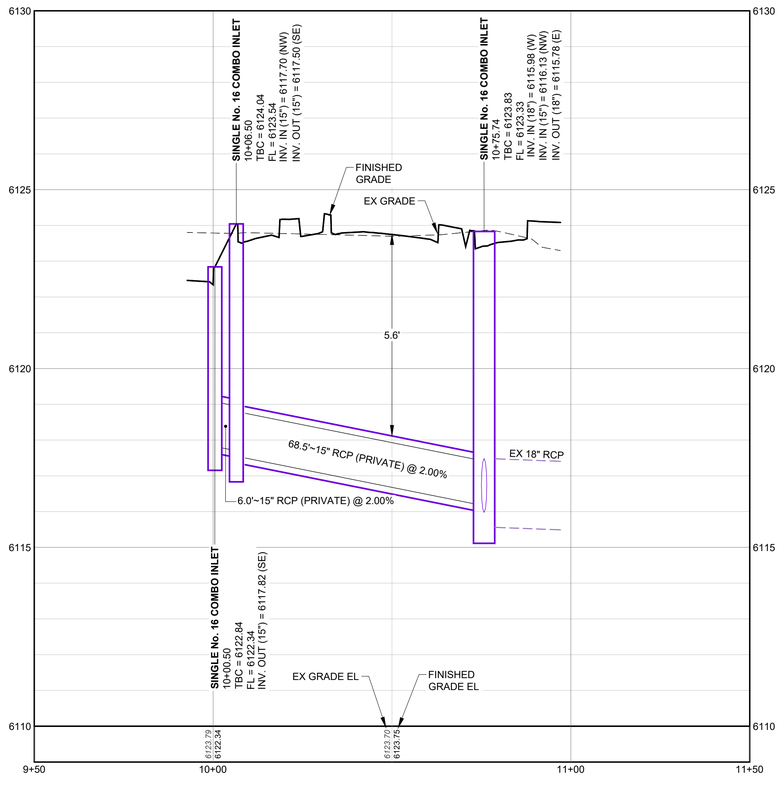
KEYMAP

LINETYPE LEGEND

PROPOSED		EXISTING
F F F	FIRE SERVICE	F F F F
IRR IRR	IRRIGATION	IRR IRR
RD RD	ROOF DRAIN	
	SANITARY SEWER	
	STORM SEWER	
W W	WATER LINE	W W

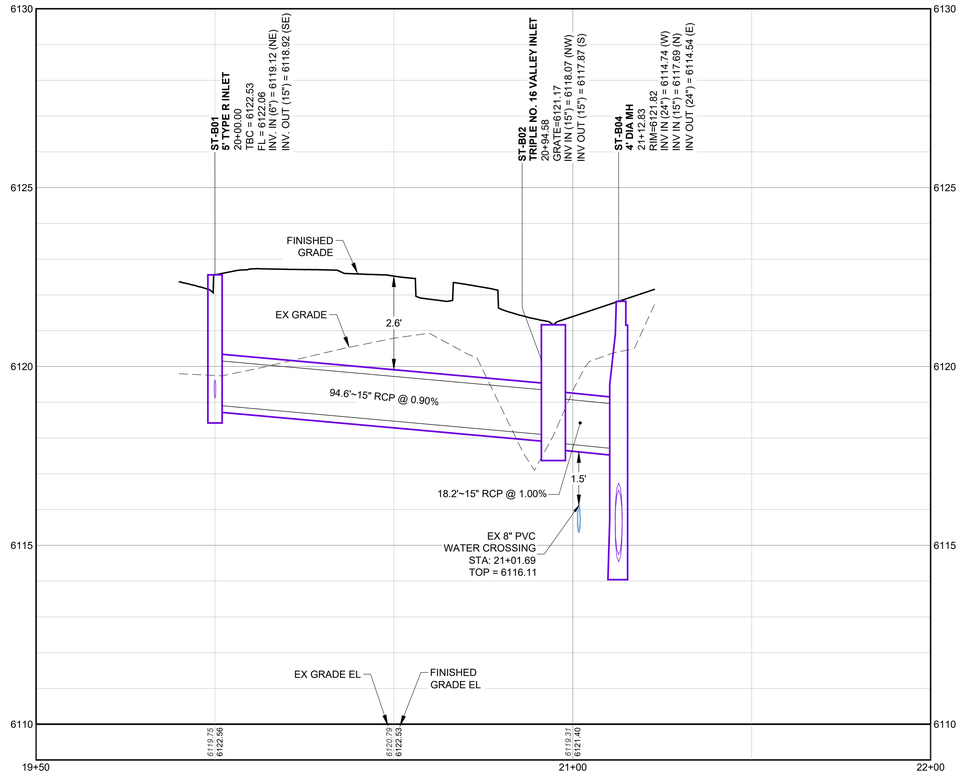
SYMBOLS LEGEND

	CLEANOUT	
	CURB STOP/ CORP STOP	
EM	ELECTRIC METER	EM
	FIRE DEPARTMENT CONNECTION	
	FIRE HYDRANT	
GM	GAS METER	GM
	GATE VALVE	
	LIGHT POLE	
RD	ROOF DRAIN	
S	SANITARY MANHOLE	S
	STORM INLET	
D	STORM MANHOLE	D
T	TRANSFORMER	T
	UTILITY POLE	



PROFILE: STORM LINE - A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'



PROFILE: STORM LINE - B

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

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

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

PLAN & PROFILES - STORM LINES - A & B

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26

DATE	REVISIONS	BY

2 1 0 — 20 0 20
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

PROFESSONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

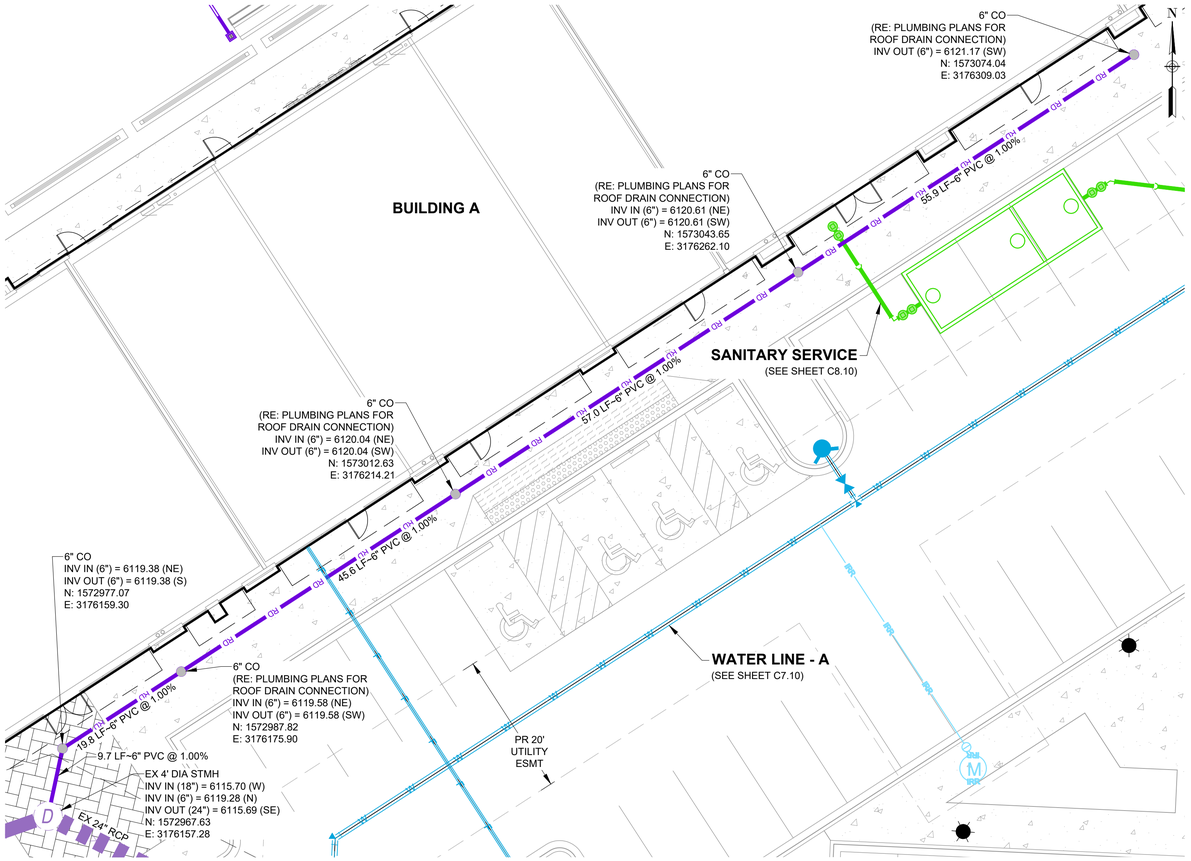
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

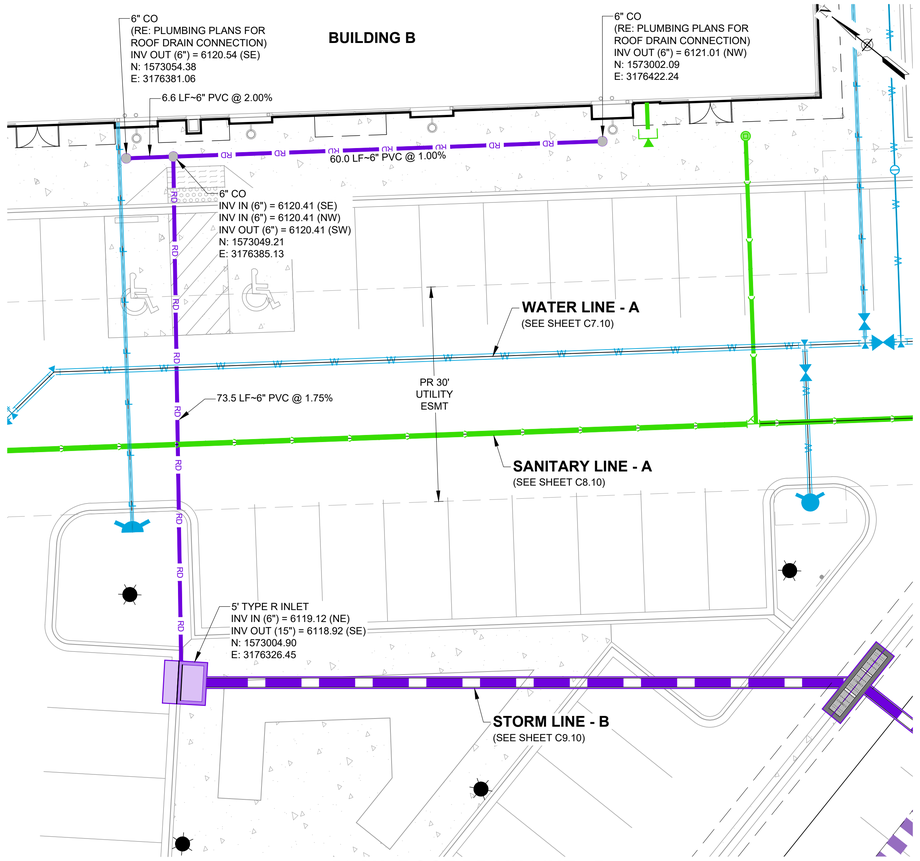
SHEET NUMBER:
C9.10
27 of 44

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C9.10 - PLAN & PROFILES - STORM LINES - A & B.dwg Plotted by: Jacob Huselton Date: 7/16/2026 11:54 AM



PLAN: ROOF DRAIN LINE - A

HORIZONTAL SCALE: 1" = 20'



PLAN: ROOF DRAIN LINE - B

HORIZONTAL SCALE: 1" = 20'

LINETYPE LEGEND

PROPOSED		EXISTING
F F F	FIRE SERVICE	F F F
IRR IRR	IRRIGATION	IRR IRR
RD RD	ROOF DRAIN	
	SANITARY SEWER	
	STORM SEWER	
W W	WATER LINE	W W

SYMBOLS LEGEND

	CLEANOUT	
	CURB STOP/ CORP STOP	
EM	ELECTRIC METER	EM
	FIRE DEPARTMENT CONNECTION	
	FIRE HYDRANT	
GM	GAS METER	GM
	GATE VALVE	
	LIGHT POLE	
RD	ROOF DRAIN	
S	SANITARY MANHOLE	S
	STORM INLET	
D	STORM MANHOLE	D
T	TRANSFORMER	T
	UTILITY POLE	

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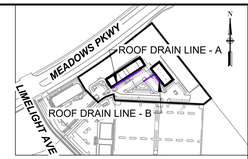
APPROVED BY:

DEVELOPMENT SERVICES DATE



KEYMAP

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
ROOF DRAIN LINES - A & B

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26

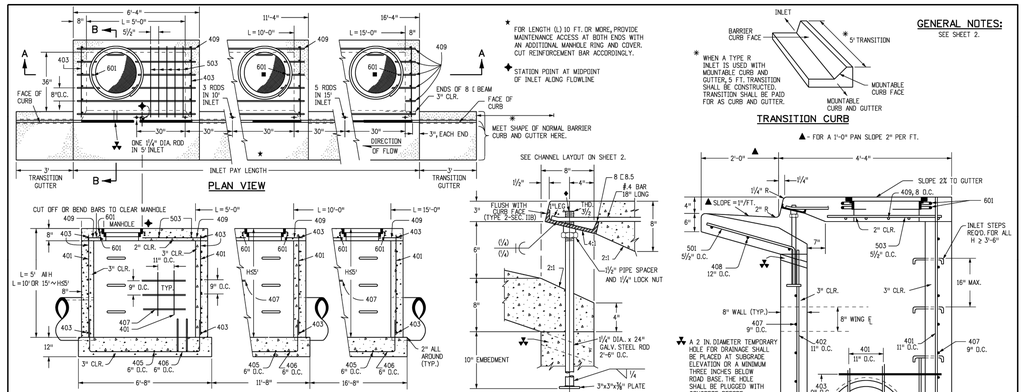
DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

10 0 10
HORIZONTAL SCALE: 1" = 10'

SHEET NUMBER:
C9.11
28 of 44

Plotted by: Jacob Hustelton Date: 7/16/2026 11:55 AM
File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\C0\C9.11 - ROOF DRAIN LINES - A & B.dwg



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Colorado Department of Transportation
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Project Development Branch JBK

CURB INLET TYPE R

STANDARD PLAN NO.
M-604-12
Standard Sheet No. 1 of 2
Project Sheet Number:

Issued by the Project Development Branch: July 31, 2019

MARK	BAR # OR SIZE	O.C. SPACING	TYPE	ALL INLETS L = 5 FT. NO. REQ'D.	ALL INLETS L = 5 FT. LENGTH	INLETS: H ≤ 5 FT. L = 10 FT. NO. REQ'D.	INLETS: H ≤ 5 FT. L = 10 FT. LENGTH	INLETS: H ≤ 5 FT. L = 15 FT. NO. REQ'D.	INLETS: H ≤ 5 FT. L = 15 FT. LENGTH	INLETS: H > 5 FT. L = 10 FT. NO. REQ'D.	INLETS: H > 5 FT. L = 10 FT. LENGTH	INLETS: H > 5 FT. L = 15 FT. NO. REQ'D.	INLETS: H > 5 FT. L = 15 FT. LENGTH
401	4	11"	II	15	*	21	*	26	*	11	*	11	*
402	4	11"	II	7	*	13	*	18	*	7	*	7	*
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	8'-10"	7	13'-10"	7	18'-10"	7	8'-10"	7	8'-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							3		3	
411	4	11"	II							3	5'-2"	3	10'-2"
412	4	11"	II							3	2'-9"	3	7'-9"
413	4	9"	II							7	10'-10"	7	15'-10"
501	5	5½"	IV	11	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"	33	3'-4"
502	5	5½"	III							11	11'-5"	17	11'-5"
503	5	5½"	II	5	3'-6"	16	3'-6"	27	3'-6"	6	3'-6"	6	3'-6"
504	5	5½"	IX									5	8'-4"
601	6	2½"	V	2	8'-10"	2	8'-10"	2	8'-10"	2	8'-10"	4	8'-10"
■R8.5				1 (2 BARS, 1 RODS)	5'-10"	1 (4 BARS, 3 RODS)	10'-10"	1 (4 BARS, 5 RODS)	15'-10"	1 (4 BARS, 5 RODS)	10'-10"	1 (8 BARS, 5 RODS)	15'-10"

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

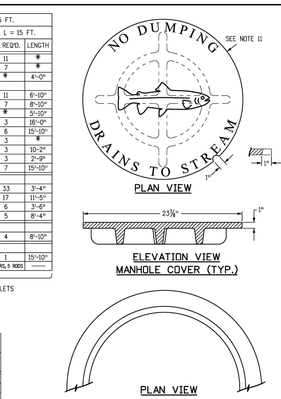
REGULAR INLETS | DROP BOX INLETS

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

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

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

TABLE TWO ∼ BARS AND QUANTITIES VARIABLE WITH "H"



GENERAL NOTES

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

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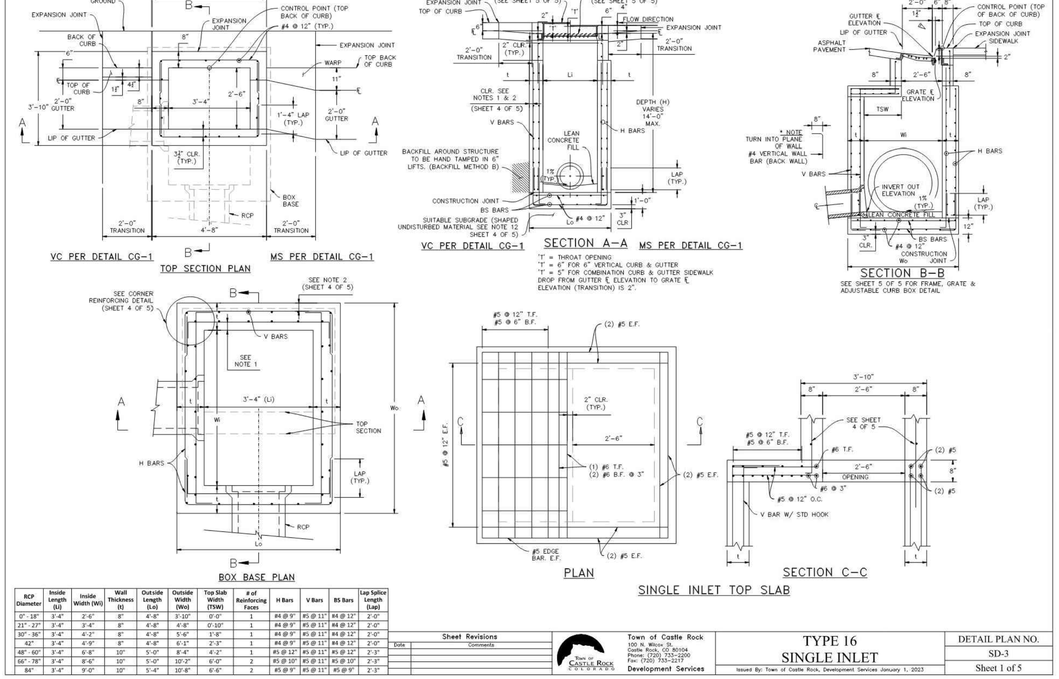
CURB INLET TYPE R

STANDARD PLAN NO.
M-604-12
Standard Sheet No. 2 of 2
Project Sheet Number:

Issued by the Project Development Branch: July 31, 2019



RCP Diameter	Inside Length (Li)	Inside Width (Wi)	Wall Thickness (t)	Outside Length (Lo)	Outside Width (Wo)	Top Slab Width (TSW)	# of Reinforcing Faces	H Bars	V Bars	BS Bars	Lap Splice Length (Lap)
0" - 18"	3'-4"	2'-6"	8"	4'-8"	3'-10"	0'-0"	1	#4 @ 9"	#5 @ 11"	#4 @ 12"	2'-0"
21" - 27"	3'-4"	3'-4"	8"	4'-8"	4'-8"	0'-10"	1	#4 @ 9"	#5 @ 11"	#4 @ 12"	2'-0"
30" - 36"	3'-4"	4'-2"	8"	4'-8"	5'-6"	1'-8"	1	#4 @ 9"	#5 @ 11"	#4 @ 12"	2'-0"
42"	3'-4"	4'-9"	8"	4'-8"	6'-1"	2'-3"	1	#4 @ 9"	#5 @ 11"	#4 @ 12"	2'-0"
48" - 60"	3'-4"	6'-8"	10"	5'-0"	8'-4"	4'-2"	1	#5 @ 12"	#5 @ 11"	#5 @ 12"	2'-3"
66" - 78"	3'-4"	8'-6"	10"	5'-0"	10'-2"	6'-0"	2	#5 @ 10"	#5 @ 11"	#5 @ 10"	2'-3"
84"	3'-4"	9'-0"	10"	5'-4"	10'-8"	6'-6"	2	#5 @ 9"	#5 @ 11"	#5 @ 9"	2'-3"

Sheet Revisions		
Date	Comments	

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
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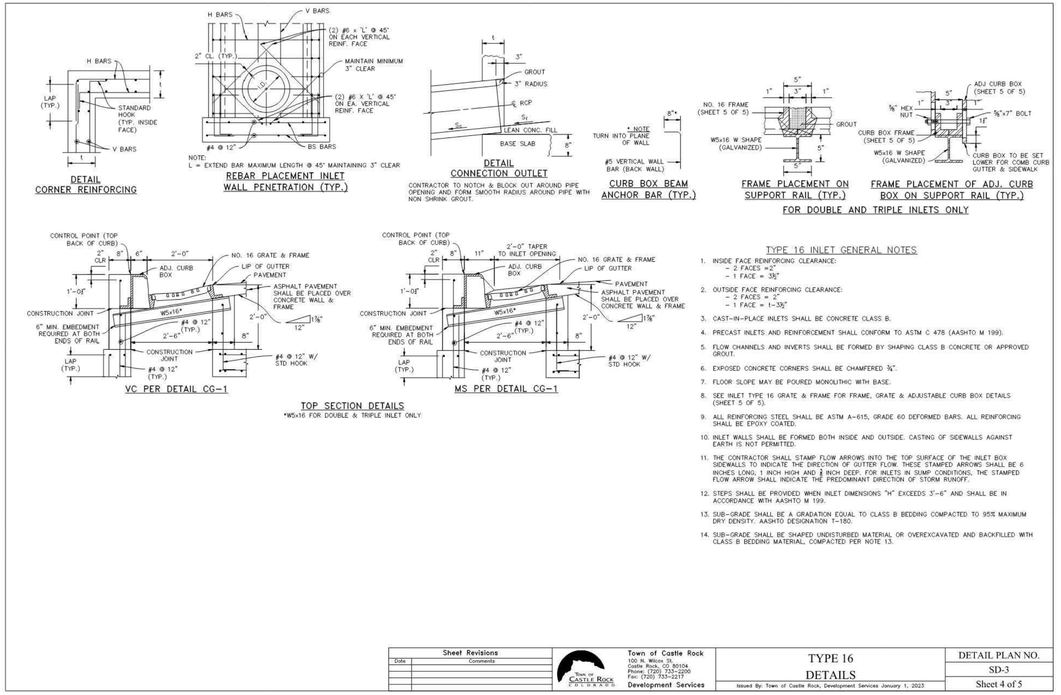
Development Services

TYPE 16 SINGLE INLET

DETAIL PLAN NO.
SD-3
Sheet 1 of 5

Issued By: Town of Castle Rock, Development Services January 1, 2023



TYPE 16 INLET GENERAL NOTES

1. INSIDE FACE REINFORCING CLEARANCE:
   - 2 FACES = 2"
   - 1 FACE = 3½"
2. OUTSIDE FACE REINFORCING CLEARANCE:
   - 2 FACES = 2"
   - 1 FACE = 1-3½"
3. CAST-IN-PLACE INLETS SHALL BE CONCRETE CLASS B.
4. PRECAST INLETS AND REINFORCEMENT SHALL CONFORM TO ASTM C 478 (AASHTO M 199).
5. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING CLASS B CONCRETE OR APPROVED GROUT.
6. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾".
7. FLOOR SLOPE MAY BE POURED MONOLITHIC WITH BASE.
8. SEE INLET TYPE 16 GRATE & FRAME FOR FRAME, GRATE & ADJUSTABLE CURB BOX DETAILS (SHEET 5 OF 5).
9. ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60 DEFORMED BARS. ALL REINFORCING SHALL BE EPOXY COATED.
10. INLET WALLS SHALL BE FORMED BOTH INSIDE AND OUTSIDE. CASTING OF SIDEWALLS AGAINST EARTH IS NOT PERMITTED.
11. THE CONTRACTOR SHALL STAMP FLOW ARROWS INTO THE TOP SURFACE OF THE INLET BOX SIDEWALLS TO INDICATE THE DIRECTION OF GUTTER FLOW. THESE STAMPED ARROWS SHALL BE 6 INCHES LONG, 1 INCH HIGH AND ⅛ INCH DEEP. FOR INLETS IN SUMP CONDITIONS, THE STAMPED FLOW ARROW SHALL INDICATE THE PREDOMINANT DIRECTION OF STORM RUNOFF.
12. STEPS SHALL BE PROVIDED WHEN INLET DIMENSIONS "H" EXCEEDS 3'-6" AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
13. SUB-GRADE SHALL BE A GRADATION EQUAL TO CLASS B BEDDING COMPACTED TO 95% MAXIMUM DRY DENSITY. AASHTO DESIGNATION T-180.
14. SUB-GRADE SHALL BE SHAPED UNDISTURBED MATERIAL OR OVEREXCAVATED AND BACKFILLED WITH CLASS B BEDDING MATERIAL, COMPACTED PER NOTE 13.

Sheet Revisions		
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TYPE 16 DETAILS

DETAIL PLAN NO.
SD-3
Sheet 4 of 5

Issued By: Town of Castle Rock, Development Services January 1, 2023

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
STORM DRAINAGE DETAILS

WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

PREPARED FOR:

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C9.50
29 of 44

Plotted by: Jacob Hueltson Date: 7/16/2026 11:55 AM
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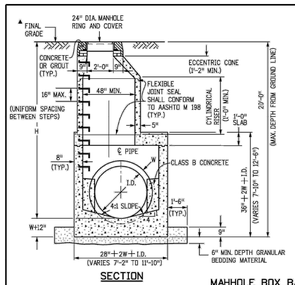
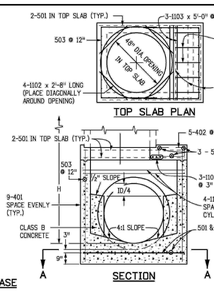
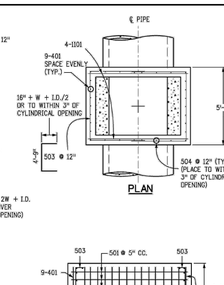






GENERAL NOTES

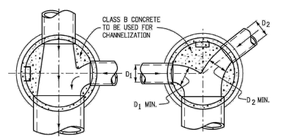
1. SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
2. THE PRECAST FLAT TOP MAY BE USED ON ANY MANHOLE. THE ECCENTRIC CONE MAY BE USED WHEN THE MANHOLE "H" HEIGHT IS AT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

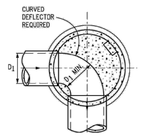
▲ WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER ¼" MIN. TO ½" MAX.

MARK	SIZE	TYPE	WT. w/FT.	BARS	I.D. 54"	60"	66"	72"	84"	96"	FORMULAS
401	4	I	0.668	NO. REQ'D. / LENGTH / WEIGHT *	18 / 8'-1" / 97.2	18 / 8'-8" / 104.2	18 / 9'-3" / 111.2	18 / 9'-10" / 118.2	18 / 11'-0" / 132.3	18 / 12'-2" / 146.3	401 BAR LENGTH = 32" + 2W + I.D.
402	4	III	0.668	NO. REQ'D. / LENGTH / WEIGHT *	5 / 5'-5" / 18.1	5 / 6'-0" / 20.0	5 / 6'-7" / 22.0	5 / 7'-2" / 23.9	5 / 8'-4" / 27.8	5 / 9'-6" / 31.7	402 BAR LENGTH = I.D. + 2W
501	5	I	1.043	NO. REQ'D. / LENGTH / WEIGHT *	17 / 13'-5" / 131.5	17 / 14'-6" / 141.8	17 / 15'-7" / 152.2	17 / 16'-8" / 162.5	17 / 17'-9" / 183.2	17 / 17'-6" / 203.9	501 BAR LENGTH = 24" + I.D. + 2W
502	5	I	1.043	NO. REQ'D. / LENGTH / WEIGHT *	22 / 5'-0" / 114.7	23 / 5'-0" / 118.9	25 / 5'-0" / 130.4	26 / 5'-0" / 135.6	29 / 5'-0" / 151.2	32 / 5'-0" / 166.9	502 NUMBER BARS REQD. = 3 + $\left(\frac{24+I.D.+2W}{5}+1\right)$
503	5	II	1.043	NO. REQ'D. / LENGTH / WEIGHT *	16 / 12'-10" / 214.2	16 / 13'-5" / 223.5	18 / 14'-0" / 252.2	18 / 14'-7" / 273.8	20 / 15'-8" / 328.5	24 / 16'-10" / 423.5	503 NUMBER BARS REQD. = 2 $\left(\frac{13+I.D.+2W}{6}+1\right)$ BAR LENGTH = 4'-9"+2(16+W+I.D./2)
504	5	I	1.043	NO. REQ'D. / LENGTH / WEIGHT *	12 / 8'-0" / 101.2	14 / 8'-8" / 126.6	14 / 9'-3" / 135.1	16 / 9'-10" / 164.1	18 / 11'-0" / 206.5	20 / 12'-2" / 253.8	504 NUMBER BARS REQD. = $\left(\frac{2W+I.D.-4}{6}+1\right)$ @ 12" BAR LENGTH = 32"+2W+I.D.
1101	11	I	5.313	NO. REQ'D. / LENGTH / WEIGHT *	4 / 7'-2" / 152.3	4 / 7'-9" / 164.7	4 / 8'-4" / 177.1	4 / 8'-11" / 189.5	4 / 10'-1" / 214.3	4 / 11'-3" / 239.1	1101 BAR LENGTH = 21" + I.D. + 2W
1102	11	I	5.313	NO. REQ'D. / LENGTH / WEIGHT *	4 / 2'-8" / 56.7	4 / 2'-8" / 56.7	4 / 2'-8" / 56.7	4 / 2'-8" / 56.7	4 / 2'-8" / 56.7	4 / 2'-8" / 56.7	BENDING: TYPE I STRAIGHT
1103	11	I	5.313	NO. REQ'D. / LENGTH / WEIGHT *	3 / 5'-0" / 79.7	3 / 5'-0" / 79.7	3 / 5'-0" / 79.7	3 / 5'-0" / 79.7	3 / 5'-0" / 79.7	3 / 5'-0" / 79.7	TYPE II 4'-9" 16"+W+I.D./2
REINFORCING STEEL TOTAL					965.6	1,037.5	1,127.2	1,204.0	1,380.2	1,601.6	TYPE III 12" 12" I.D.+2W-38" 2"
CONCRETE - CUBIC YARDS - TOTAL					6.0	6.6	7.3	8.0	9.5	11.1	

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

QUANTITIES FOR CONCRETE MANHOLE BOX BASE





TYPICAL CHANNELIZATION DETAILS

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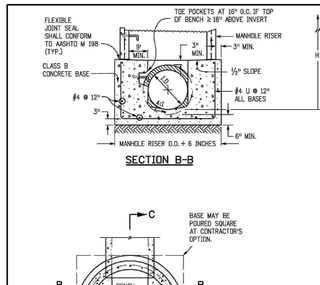
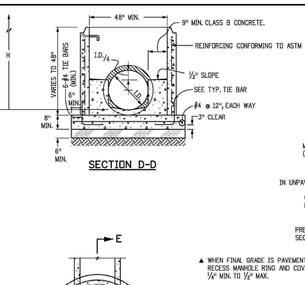
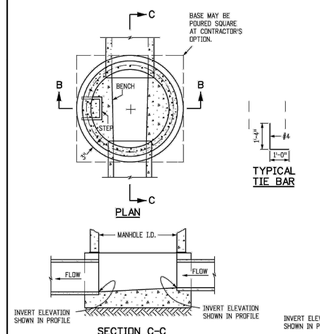
MANHOLES

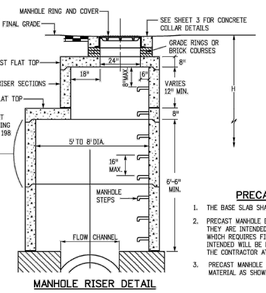
Issued by the Project Development Branch: July 31, 2019

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









PRECAST MANHOLE BASES NOTES:

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

LEGEND

- SUITABLE SUBGRADE
- GRANULAR BEDDING MATERIAL
- CONCRETE

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

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

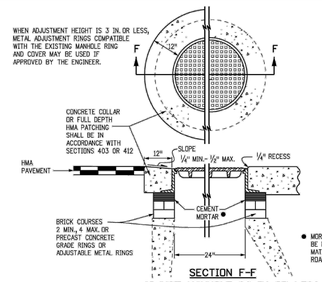
MANHOLES

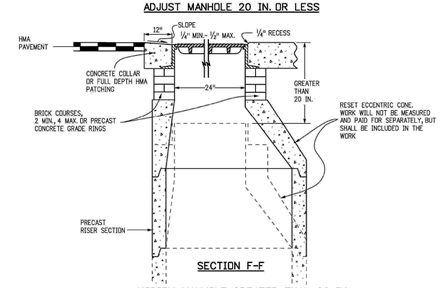
Issued by the Project Development Branch: July 31, 2019

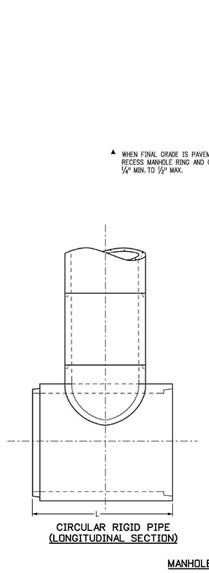
STANDARD PLAN NO. M-604-20
Standard Sheet No. 2 of 3
Project Sheet Number:

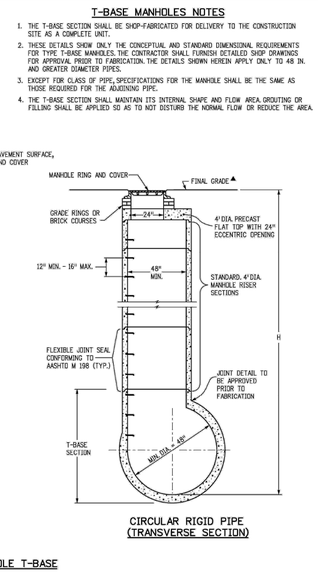
T-BASE MANHOLES NOTES

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









MANHOLE T-BASE

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

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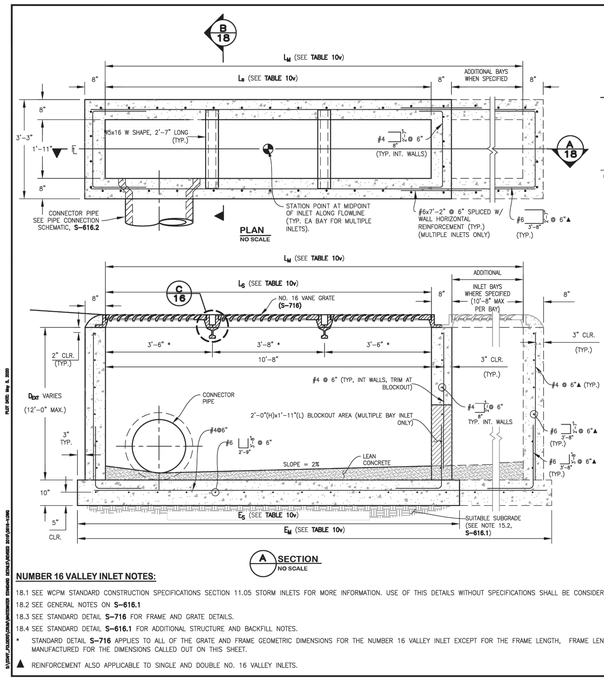
Project Development Branch JBK

MANHOLES

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO. M-604-20
Standard Sheet No. 3 of 3
Project Sheet Number:



NUMBER 16 VALLEY INLET NOTES:

18.1 SEE WCPM STANDARD CONSTRUCTION SPECIFICATIONS SECTION 11.05 STORM INLETS FOR MORE INFORMATION. USE OF THIS DETAILS WITHOUT SPECIFICATIONS SHALL BE CONSIDERED NON-COMPLIANT.

18.2 SEE GENERAL NOTES ON **S-616.1**

18.3 SEE STANDARD DETAIL **S-716** FOR FRAME AND GRATE DETAILS.

18.4 SEE STANDARD DETAIL **S-616.1** FOR ADDITIONAL STRUCTURE AND BACKFILL NOTES.

* STANDARD DETAIL **S-716** APPLIES TO ALL OF THE GRATE AND FRAME GEOMETRIC DIMENSIONS FOR THE NUMBER 16 VALLEY INLET EXCEPT FOR THE FRAME LENGTH, FRAME LENGTH SHOULD BE MANUFACTURED FOR THE DIMENSIONS CALLED OUT ON THIS SHEET.

▲ REINFORCEMENT ALSO APPLICABLE TO SINGLE AND DOUBLE NO. 16 VALLEY INLETS.

TABLE 10v. NO. 16 VALLEY TOTAL INLET LENGTH

INLET CONFIGURATION	L_B OR L_W INLET LENGTH	$\blacktriangleleft E_B$ OR E_W TOTAL BOTTOM SLAB LENGTH
TRIPLE NO. 16 VALLEY	10'-8"	12'-6"
NO. 16 VALLEY 3-3-2 (EXAMPLE CONFIGURATION)	10'-8", 10'-8", 7'-0"	31'-6"
NO. 16 VALLEY (CONFIGURATION TEMPLATE)	L_B L_B L_W	=3"+8"+L_B+8"+L_B+8"+L_W+8"+3"

●MAX. BOTTOM SLAB LENGTH = 75'-0"

NO.	DESCRIPTION OF REVISIONS	DATE	BY

DENVER
PUBLIC WORKS

CITY AND COUNTY OF DENVER
2000 W. 3RD AVE. DENVER, CO 80223
www.denvergov.org

STANDARD DETAILS
SINGLE-DOUBLE-TRIPLE NUMBER 16 INLET VALLEY

S-616V

DESIGNED BY:	APD
DRAWN BY:	ASP/JDMT
CHECKED BY:	
DRAWING NAME:	
APPROVED:	
DATE:	JUNE 2020
SHEET NO.:	18

ROTH LANG ENGINEERING GROUP, LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
STORM DRAINAGE DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

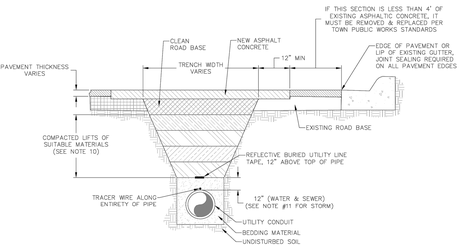
SHEET NUMBER:
C9.51
30 of 44

Plotted by: Jacob Huselton Date: 7/16/2026 11:55 AM

File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\CD's\C9.50 - STORM DRAINAGE DETAILS.dwg

NOTES:

1. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THIS DETAIL UNLESS OTHERWISE SPECIFIED BY PUBLIC WORKS.
2. PRIOR TO PLACEMENT OF CONCRETE, ALL EDGES SHALL BE SAW CUT TO A CLEAN, STRAIGHT, AND VERTICAL EDGE.
3. PRIOR TO PLACEMENT OF ASPHALT, 18 INCHES OF ADJACENT ASPHALT SHALL BE MILLED TO 2 INCH DEPTH ON ALL SIDES TO MATCH EXISTING PAVEMENT. INNER SURFACE TO BE TACKED WITH HSS-1.
4. WHEN SUBSTITUTING FOR BACKFILL MATERIAL, FLOWABLE FILL SHALL CONFORM TO MGPEC CLSM STANDARDS.
5. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE DIAMETER OF THE PIPE.
6. 95% OF ASTM D698 STANDARD COMPACTION EFFORT IS REQUIRED ON ALL TRENCHING ZONES, IN BOTH IMPROVED & UNIMPROVED AREAS.
7. IN UNIMPROVED AREAS, ALL DISTURBED AREAS SHALL BE REGRADED, SEEDED & MULCHED.
8. IN CONCRETE ROADWAYS, A MINIMUM OF 1/2 PANEL WIDTH OR 10' x 5' SECTION WILL BE ALLOWED TO REMAIN, OTHERWISE THE ENTIRE CONCRETE PANEL MUST BE REPLACED.
9. USE #4 REBAR AT 2' CENTERS ALONG THE PERIMETER OF CONCRETE REPLACEMENT SECTIONS.
10. 6" MAXIMUM COMPACTED LIFT THICKNESS IF FLOWABLE FILL NOT REQUIRED.
11. BEDDING MATERIAL DEPTH WHEN INSTALLING STORM SEWER SHALL BE UP TO SPRING LINE, EXCEPT IN AREAS OF UNSUITABLE BACKFILL, THEN BEDDING MATERIAL SHALL BE 12" ABOVE PIPE.
12. TRENCH WIDTHS LESS THAN 4' OR TRENCHING THAT EXPERIENCES CAVE-INS OR SLOUGHING SHALL REQUIRE FLOWABLE FILL IN ORDER TO ACHIEVE COMPACTION.



Sheet Revisions	
Date	Comments
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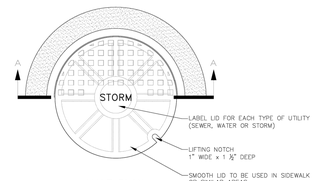
6/21	REVISED PER STAFF COMMENTS

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

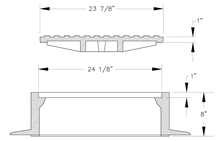
STORM SEWER TRENCH DETAIL	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services January 1, 2023	SD-2
	Sheet 1 of 1



HALF PLAN

NOTES:

1. CASTING SPECIFICATIONS: ASTM A-48 WITH A MINIMUM TENSILE STRENGTH OF 30,000 PSI (CLASS 30). (NEENAH TYPE R-1706 RING & COVER OR EQUIVALENT).
2. TOTAL MINIMUM WEIGHT APPROXIMATELY 410 LBS.
3. DO NOT USE IN APPLICATIONS WHERE MANHOLES ARE WITHIN DRAINAGE WAYS.
4. STANDARD MANUFACTURER'S LETTERING SIZES & PATTERNS. (LETTERING SHALL BE CAST AS PART OF COVER.)
5. MANHOLE OUTSIDE OF R.O.W. MUST HAVE A LOCKING LID AND CARSONITE MARKER.
6. TRACER WIRE REQUIRED FOR ALL SEWER MAINS, LATERALS AND MANHOLES. REFER TO DETAILS SD-5, SS-2, SS-11, AND W-28.



SECTION A – A

Sheet Revisions	
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Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
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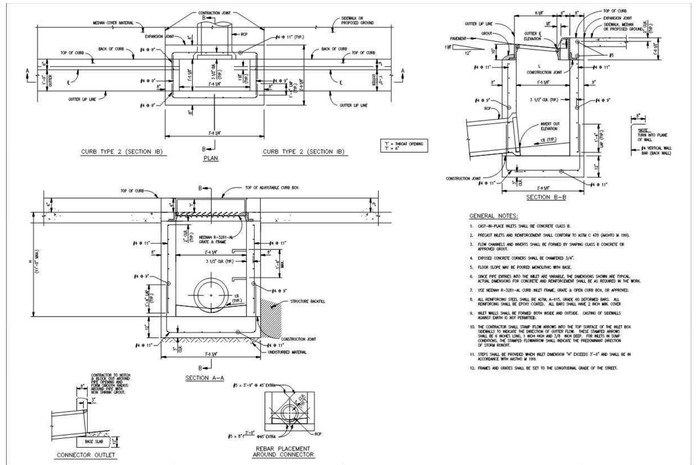
STORM SEWER MANHOLE 24" RING & COVER	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services January 1, 2023	SD-1
	Sheet 1 of 1



GENERAL NOTES:

1. CAST-IN-PLACE INLETS SHALL BE CONCRETE CLASS B.
2. PRECAST INLETS AND REINFORCEMENT SHALL CONFORM TO ASTM C 478 (AASHTO M 199).
3. FLOW CHANNELS AND WINGPITS SHALL BE FORMED BY SHAPING CLASS B CONCRETE OR APPROVED GROUT.
4. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
5. FLOOR SLOPE MAY BE POURED MONOLITHIC WITH BASE.
6. SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS PER CONDITIONS AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
7. USE NEENAH R-3281-A, CURB INLET FRAME, GRATE & OPEN CURB BOX, OR APPROVED.
8. ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60 DEFORMED BAR. ALL REINFORCING STEEL SHALL BE #5 BARS OR SMALLER. ALL BAR SPACING SHALL BE MAX.
9. INLET WALLS SHALL BE STRAIGHT WITH NO WINGS AND OUTSIDE. CASTING OF SIDEWALLS AGAINST EARTH IS NOT PERMITTED.
10. THE CONCRETE CURB, CURB FLOW ARROWS AND THE TOP SURFACE OF THE INLET BOX THEREWITH TO INDICATE THE DIRECTION OF GUTTER FLOW. THESE SYMBOLS SHALL BE APPLIED USING 1 BEAN HOE AND TOOL AND NOT BY TOOLING THE CONCRETE. THE COMPLETED FORMWORK SHALL REQUIRE THE PRELIMINARY APPROVAL OF STORM RUNOFF.
11. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" EXCEEDS 5'-0" AND SHALL BE IN ACCORDANCE WITH ASTM M 199.
12. FRAMES AND GRATES SHALL BE SET TO THE LONGITUDINAL GRADE OF THE STREET.

Sheet Revisions	
Date	Comments

Town of Castle Rock
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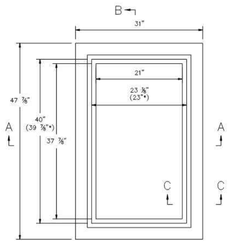
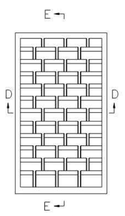
Development Services

TYPE 16 INLET SPECIAL	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services January 1, 2023	SD-4
	Sheet 1 of 1

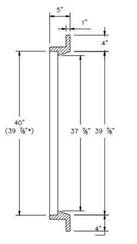


PLAN – FRAME

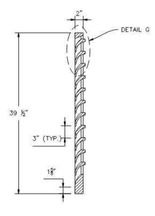


PLAN – GRATE

* CLEAR SEAT OPENING

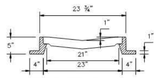


SECTION E–E



SECTION B–B

TYPE 16 INLET GRATE AND FRAME



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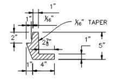

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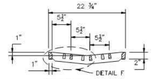

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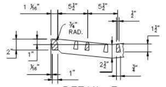

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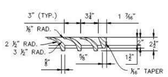

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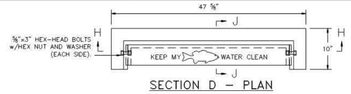
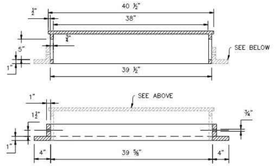
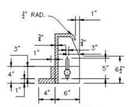


SECTION D – PLAN



SECTION H–H



SECTION J–J

ADJUSTABLE CURB BOX

MINIMUM CURB OPENING AREA = 150 IN²

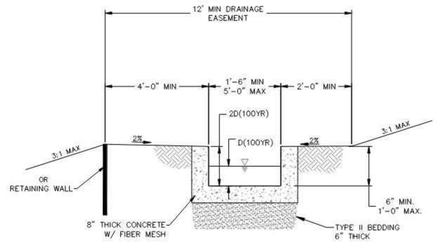
Sheet Revisions	
Date	Comments

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

TYPE 16 GRATE & FRAME ADJUSTABLE CURB BOX DETAILS	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services January 1, 2023	SD-3
	Sheet 5 of 5

NOTES:

1. THIS DETAIL APPLIES TO DIVERSION SWALES AT RETAINING WALLS AND RESIDENTIAL LOTS AS REQUIRED PER SECTION 3.1.5 OF THE STORM DRAINAGE DESIGN AND TECHNICAL CRITERIA MANUAL.
2. CONCRETE JOINTS SHALL BE PER TOWN OF CASTLE ROCK STANDARD SPECIFICATIONS.
3. A 42-INCH SAFETY HANDRAIL IS REQUIRED ON RETAINING WALLS 48" AND GREATER IN HEIGHT. HANDRAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH IBC 1015.
4. LONGITUDINAL SLOPE SHALL NOT EXCEED 10%
5. FLOWS MUST BE CAPTURED BY INLET PIPED PRIOR TO ENTERING THE STREET.
6. DIVERSION SWALES SERVING PRIVATE DEVELOPMENT SHALL NOT BE PLACED ON TOWN PROPERTY OR OPEN SPACE.
7. DIVERSION SWALES MUST BE SHOWN ON STRUCTURAL DESIGN OF RETAINING WALL AND INCORPORATED INTO THE STRUCTURAL DESIGN AND CERTIFICATION.
8. STRUCTURAL DESIGN OF RETAINING WALL MUST INCLUDE LIVE LOAD OF MAINTENANCE VEHICLES.



TYPICAL DIVERSION SWALE

Sheet Revisions	
Date	Comments
5/20	REVISED PER STAFF COMMENTS
10/20	ISSUED FOR USE
7/22	REVISED PER STAFF COMMENTS

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

TYPICAL DIVERSION SWALE	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services January 1, 2023	SD-7
	Sheet 1 of 1

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
STORM DRAINAGE DETAILS

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

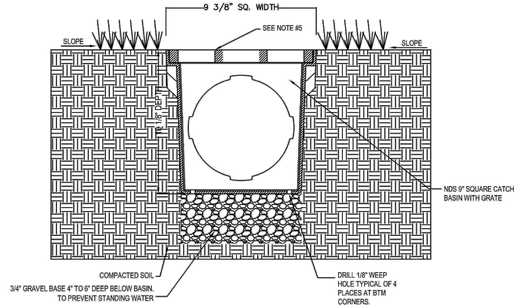
SHEET NUMBER:
C9.52
31 of 44

Plotted by: Jacob Huselton Date: 7/16/2026 11:55 AM
File Name: S:_Projects\240701 - Limelight\CADD\Sheet Sets\C0's\C0.50 -STORM DRAINAGE DETAILS.dwg

PROJECT NAME:		FILE #	ID_CB_9IN_LANDSCAPE

NDS
We put water in its place

INSTALLATION DETAIL



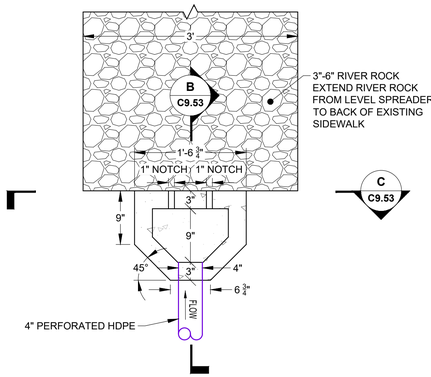
NOTES:
1. GRATE TO BE ATTACHED TO CATCH BASIN WITH SCREW PROVIDED AT TIME OF INSTALLATION.
2. RISER CAN BE CUT TO ACHIEVE EXACT ELEVATION.
3. EXISTING SOILS SHOULD BE EVALUATED TO ENSURE PROPER STRUCTURAL AND PERMEABILITY PROPERTIES.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
5. RECESS CHANNEL AND GRATE 1/8" FOR PEDESTRIAN TRAFFIC
6. DO NOT SCALE DRAWING.
7. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
8. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

SQUARE CATCH BASIN

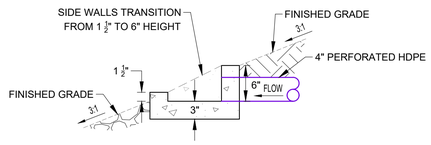
9" SQUARE CATCH BASIN - INSTALLATION FOR LANDSCAPE APPLICATIONS

FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com, DESIGN ASSISTANCE- designworx@ndspro.com
851 N. HARVARD AVE. LINDSAY, CA 93247 WWW.NDSPRO.COM 1-800-726-1994

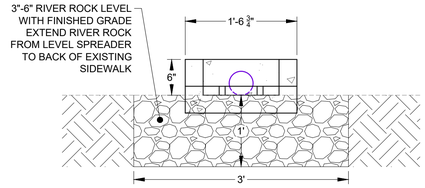
SAVE DATE: 5/26/2021 12:10 PM TEMPLATE: QMS-TMP-8.3-05 REV 1.0 - 3/24/2020



A C9.53 LEVEL SPREADER DETAIL: PLAN
1" = 1'



B C9.53 LEVEL SPREADER DETAIL: PROFILE
1" = 1'



C C9.53 LEVEL SPREADER DETAIL: FRONT ELEVATION
1" = 1'

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
STORM DRAINAGE DETAILS

WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922
PREPARED FOR:

ISSUE DATE: 7/16/26	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

SHEET NUMBER:
C9.53
32 of 44

Plotted by: Jacob Huselton Date: 7/16/2026 11:55 AM
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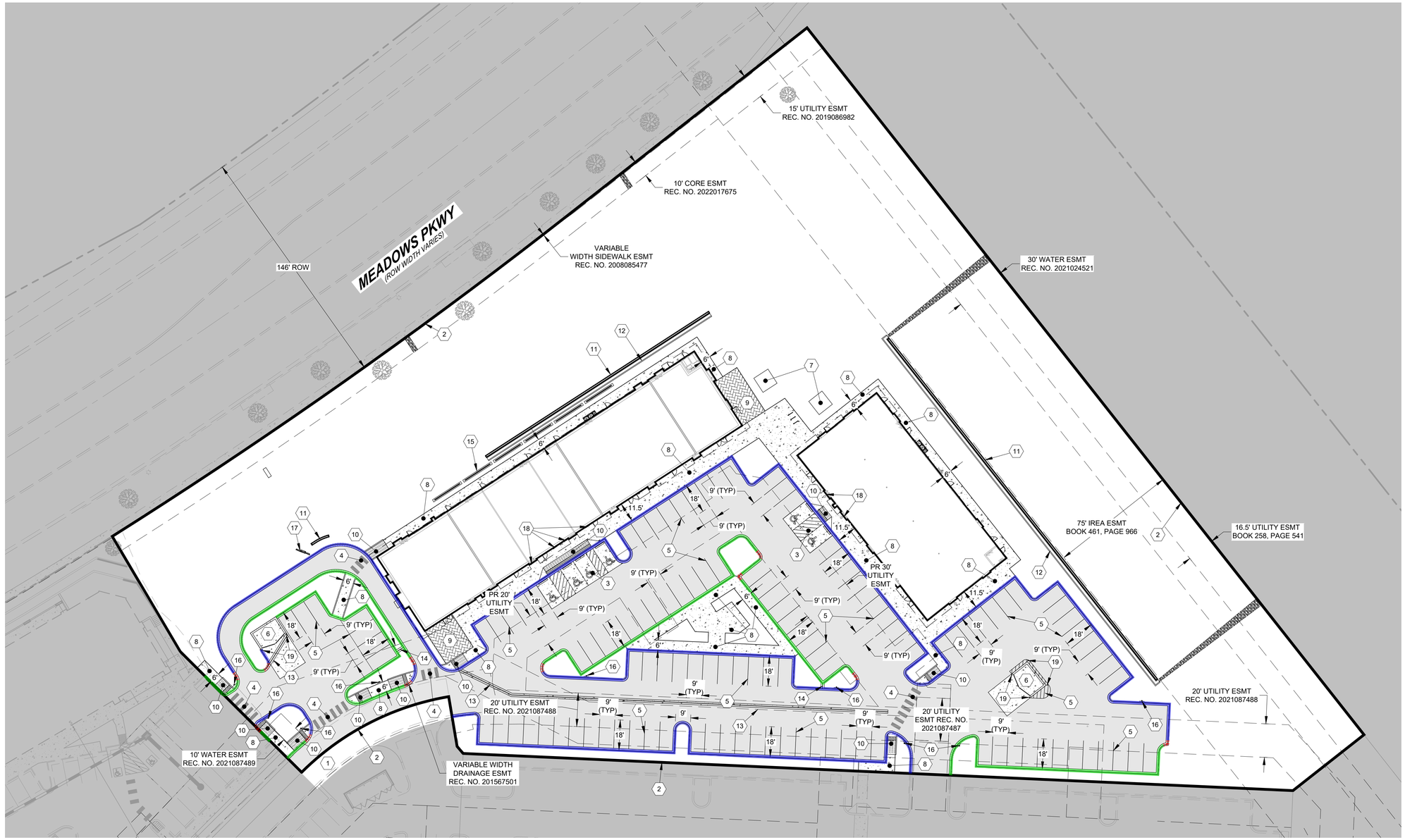


N

KEY:

1. EX ASPHALT ACCESS ROAD
2. PROPERTY LINE
3. ACCESSIBLE PARKING DETAIL, SEE DETAILS A AND B, SHEET C4.90
4. CROSSWALK, SEE DETAIL K, SHEET C4.90.
5. 4" WHITE STRIPE (TYP)
6. TRASH ENCLOSURE, RE: ARCHITECTURAL PLANS
7. 10' X 10' CONCRETE TRANSFORMER PAD
8. SIDEWALK, SEE PLAN FOR WIDTH
9. PATIO, RE: ARCHITECTURAL PLANS
10. CURB RAMP, SEE DETAILS C, D, AND E, SHEET C4.90
11. RETAINING WALL, SEE DETAILS A, B, AND C, SHEET C5.90
12. RETAINING WALL DRAINAGE DITCH, SEE DETAILS A, B, AND C, SHEET C5.90
13. VALLEY PAN (2' WIDE), SEE DETAIL L, SHEET C4.90
14. CURB CHASE (2' WIDE), SEE DETAIL M, SHEET C4.90
15. SCREEN WALL (TYP) , RE: ARCHITECTURAL PLANS
16. NO PARKING FIRE LANE SIGN AND CURB MARKING, SEE DETAIL O, SHEET C4.90
17. DRIVE THROUGH MENU BOARD, RE: ARCHITECTURAL PLANS
18. ADA PARKING SIGN, TO BE MOUNTED ON THE BUILDING WALL, SEE DETAIL G, SHEET C4.90.
19. BOLLARD, SEE DETAIL N, SHEET C4.90

LEGEND:

- 6" VERTICAL CURB WITH 1.0' CATCH PAN (SEE DETAIL I, SHEET C4.90)
- 5' TRANSITION FROM CATCH TO SPILL CURB
- 6" VERTICAL CURB WITH 1.0' SPILL PAN (SEE DETAIL J, SHEET C4.90)
- ASPHALT PAVING
- CONCRETE PAVING
- ADA RAMP
- TRUNCATED DOMES

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

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

PROFESSONAL ENGINEER CERTIFICATION

I HEREBY AFFIRM THAT THESE FINAL CONSTRUCTION PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, IN ACCORDANCE WITH ALL APPLICABLE TOWN OF CASTLE ROCK AND STATE OF COLORADO STANDARDS AND STATUTES, RESPECTIVELY; AND THAT I AM FULLY RESPONSIBLE FOR ALL DESIGN AND REVISIONS RELATIVE TO SAID PLANS.

KEVIN S. ROTH
COLORADO P.E., 35704

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19

PRIVATE IMPROVEMENT CONSTRUCTION PLANS

PAVING SIGNAGE & STRIPING PLAN

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

DATE	REVISIONS	BY

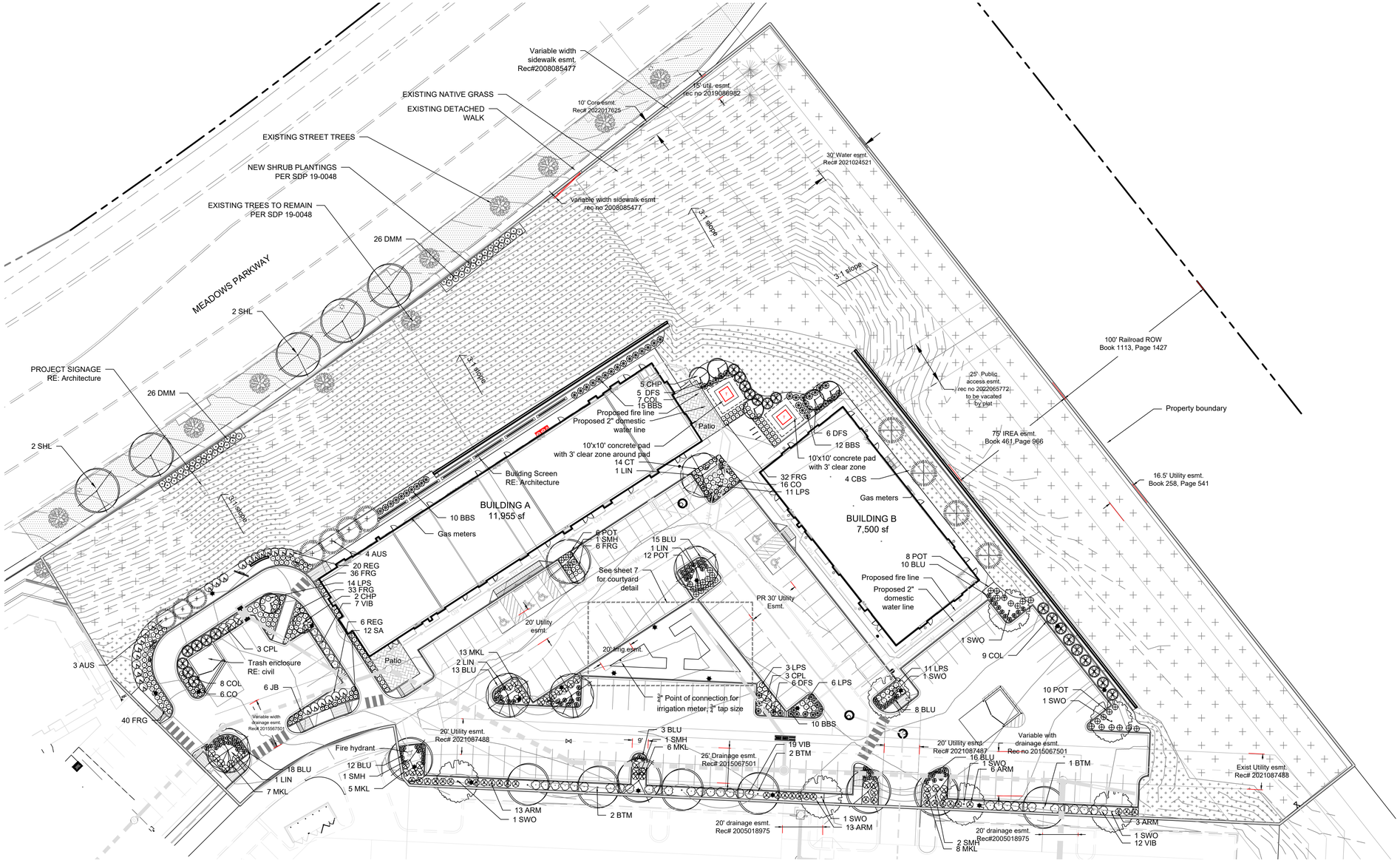
ISSUE DATE: 7/16/26

DESIGNED BY:	KSR
DRAWN BY:	JJH, SAS
JOB NUMBER:	240701

30 0 30
HORIZONTAL SCALE: 1" = 30'

SHEET NUMBER:
C10.40
33 of 44

File Name: S:_Projects\240701 - Limelight\CAD\Sheet Sets\CD's\C10.40 - PAVING SIGNAGE & STRIPING PLAN.dwg
Plotted by: Jacob Huselton Date: 7/16/2026 11:55 AM



0 30 60

North Scale 1"=30'

LEGEND

EXISTING NATIVE SEED
Seed is established with no irrigation

EXISTING TURF TREE LAWN
Turf is established with irrigation system in place

IRRIGATED SEED MIX
Temporary irrigated until establishment
Pawnee Buttes- PBSI Native Lawn Mix
Buffalograss, Blue Grama
Application rate of 5 lbs/1,000 sf

2" cal. deciduous trees
1.5" cal. ornamental trees
6' ht. evergreen trees
5 gal. evergreen shrubs
5 gal. deciduous shrubs
1 gal. ornamental grasses
1 gal. perennials

Note: All plant material to receive drip irrigation

Note:
Per Town of Castle Rock Section 4.4.5.1, CU Structural Soil will be used in all planting areas that are less than 8' in width.
All planting beds shown on the Courtyard Detail on Sheet L.3 will receive structural soil.

BEFORE YOU DIG
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1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

These plans have been reviewed by the Town of Castle Rock for concept only. The review does not imply responsibility by the reviewing department, the Town Engineer, or the Town of Castle Rock for accuracy and correctness of the calculations. Furthermore, the review does not imply that quantities of items on the plans are the final quantities required. The review shall not be construed for any reason as acceptance of financial responsibility by the Town for additional quantities of items shown that may be required during the construction phase.

All work shall be constructed in accordance with the Town of Castle Rock Municipal Code, Technical Manuals and/or other Town-approved applicable standards.

TOWN APPROVAL BLOCK

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services *Date*

TIM DUNN A.S.L.A. R.L.A.
TIM DUNN DESIGN LANDSCAPE ARCHITECTURE
tadunn1958@gmail.com 720-350-2411
www.timdunnlandscapearchitect.com

REV. NO.	DESCRIPTION	DATE

CASTLE ROCK LIMELIGHT, LLC

CASTLE ROCK LIMELIGHT RETAIL
LANDSCAPE PLAN

CASTLE ROCK, COLORADO 80108

TIM DUNN 400 02/25/2026 Original Date of Licensure STATE OF COLORADO REGISTERED LANDSCAPE ARCHITECT
LANDSCAPE ARCHITECT: TIM DUNN
COLORADO LICENSE 400

PROJ NO:
DRAWN BY: TAD
DATE : March 15, 2026

SHEET NUMBER
L.1
34 OF 44

PROJECT NUMBER CD26-0008

CASTLE ROCK STREETSCAPE TABLE

STREETSCAPE*

Street Name/Tract	Linear Feet (LF)**	Required Street Trees *(1 tree per 40 LF)*	Existing Street Trees (If applicable)	Provided Street Trees	Required Street Shrubs *(4 shrubs per required tree)*	Provided Street Shrubs
Meadows Parkway	511	13	8	13	3	52
		0			0	
		0			0	
		0			0	
		0			0	
		0			0	
		0			0	
		0			0	

*Streetscape requirements can be found in Section 8.2.1 of the Landscape and Irrigation Criteria Manual
*Streetscape does not count towards overall site landscape requirements
*Residential Only - On local streets, the required front yard tree shall meet the street tree requirements for that section of roadway.
**Please provide the linear footage and clearly show on the Site Development Plan for all streets/tracts.

CASTLE ROCK NON RESIDENTIAL SITE INVENTORY

NON-RESIDENTIAL SITE INVENTORY

Town of Castle Rock Registered Professional: Tim Dunn R.L.A A.S.L.A

State of Colorado License Landscape Architect #

Town of Castle Rock Registration # License # 400

Company Name: Tim Dunn Design Address: 6948 Daventry Place Castle Pines, Co 80108

Phone: 720-350-2411 Email: tadunn1958@gmail.com Date: 3.4.26

Project Name: Limelight Retail SDP25-0024

Please add values/quantity in the shaded areas. Provided values/quantity must be equal to or greater than the required value/quantity.

Gross Site Area	Required Landscape *(10% of the gross site area)*	Existing Landscape (If Applicable)	Provided Landscape Area	Required Trees *(2 trees / 1,000 sqft)*	Provided Trees	Required Shrubs *(4 shrubs / 1,000 sqft)*	Provided Shrubs	Soil Prep Amounts (cu.yds. Per 1000 SF)
185,253	18,525		103,264	37	48	74	336	4 cuyd/1000 sf
Turf Grass Square Footage (SF)*	**Required Landscape Coverage Percentage (75% minimum)**	**Existing Landscape (If Applicable)**	**Provided Landscape Coverage at Maturity (SF)**	**Required Nonliving Ornamental Percentage *(25% maximum)***	**Provided Nonliving Ornamental Area in Landscape (SF)**	**Required Large Canopy Deciduous Tree (50% minimum)**	**Provided Large Canopy Deciduous Shade Tree**	**Separate Irrigation Service Connections**
0	13,894		92,937	25,816	10,327	22	25	Yes X No ____

Parking Lot*

Parking Lot Area	Landscaping Area Required *(10% of square footage)*	Existing Landscape (If Applicable)	Landscaped Area Provided	Required Trees** *(2 large canopy deciduous shade trees / 1,000 sqft)*	Provided Trees	Required Shrubs** *(4 shrubs / 1,000 sqft)*	Provided Shrubs
50,262	5,026		5,160	10	17	20	140

Parking Lot Peninsula/Islands (60 Spaces or More)***

Number of Parking Spaces	Number of Landscaped Islands Required *(1 island per 15 spaces)*		Number of Landscaped Islands Provided	Required Trees*** *(Minimum of 1 large canopy deciduous shade tree per island/peninsula)*	Provided Trees	Required Shrubs *(Minimum of 4 shrubs per island/peninsula)*	Provided Shrubs
125	8		14	14	17	56	140

*Parking Lot landscaping can count towards overall site landscape requirements.
**Parking Lot landscaping outside of landscaped islands/peninsulas should be located within 3 feet of the parking lot perimeter.
***Evergreens are not permitted in landscaped islands/peninsulas.
****Parking Lot Peninsula/Islands criteria for lots over 40 spaces can be found in Section 7.2.1.2(2)(c.) of the Landscape and Irrigation Criteria Manual.

ADDITIONAL LANDSCAPE NOTES

1. IF ANY TRANSFORMERS, GROUND-MOUNTED HVAC UNITS, UTILITY PEDESTALS, OR SIMILAR FEATURES EXISTING ON SITE, BUT NOT SHOWN ON THE SITE DEVELOPMENT PLAN, ADDITIONAL LANDSCAPING AND SCREENING MAY BE REQUIRED BASED UPON FIELD CONDITIONS DETERMINED DURING THE SITE INSPECTION. INSTALLATION WILL BE REQUIRED PRIOR TO THE FINAL INSPECTION AND THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY, AS APPLICABLE.

2. NONLIVING LANDSCAPE MATERIAL SUCH AS ROCK, STONE, BARK CHIPS, AND SHAVINGS WHICH NO LONGER COVER THE AREA IN WHICH THEY WERE ORIGINALLY INSTALLED, SHALL BE REGULARLY REPLENISHED TO MAINTAIN THE FULL COVERAGE TO A MINIMUM DEPTH OF TWO (2) INCHES FOR ROCK MULCH AND FOUR (4) INCHES FOR WOOD MULCH.

3. PLANTS AND VEGETATION UNDER THE TOWN OF CASTLE ROCK'S PLANT LIST SHALL BE IN LINE WITH THE ADOPTED CWPP AND FIRE RESISTIVE VEGETATION FOR THE REGION TO MEET THE ADOPTED FIRE CODES BY THE TOWN OF CASTLE ROCK.

LANDSCAPE NOTES

1. Non-irrigated native seed areas shall be installed using the Town of Castle Rock Grading Erosion and Sediment Control Manual (GESC) standard detail #17.
2. No turf and or overhead irrigation on slopes 3:1.
3. No slopes greater than 3:1 are permitted.
4. Top soil, if disturbed shall be stock piled and reused on the site.
5. No more than sixty percent of the total commercial landscape area shall include irrigated turf grass.
6. No individual plant may have supplemental water demand greater than 15" per growing season.

IRRIGATION NOTES

1. The irrigation system shall be equipped with a backflow prevention assembly approved by the Town of Castle Rock.
2. Irrigation tap, line, meter and backflow prevention assembly must be the same size from the tap to a minimum distance of 10 pipe diameters past the backflow prevention assembly and winterization tee.
3. Water waste is not allowed per the Town of Castle Rock's Water Use Management Plan. Therefore, all nozzles are to be fine tune adjusted so that overspray onto hard surfaces is eliminated.
4. Irrigation is not permitted on 3:1 slopes.
5. Velocity shall not exceed 7.5 FPS through the water meter.
6. No overhead irrigation in areas less than 10 feet wide.
7. There is to be neither plant material nor irrigation in areas less than 4 feet wide.

CASTLE ROCK LANDSCAPE NOTES

1. Installing contractor shall contact Castle Rock Water at 720.733.6017 to schedule a pre-construction meeting before beginning the installation of the landscaping.
2. Landscape and irrigation shall be installed by a Town of Castle Rock registered landscape contract professional.
3. Soil inspection is required before plant installation and scheduling soil inspection should be discussed at the landscape preconstruction meeting.
4. Installing Contractor is to provide submittal from suppliers for sod and native seed mix at time of landscape inspection.
5. Soil amendment shall be a minimum of four (4) cubic yards of organic matter per one-thousand square feet. This soil amendment shall be rototilled to a depth of six (6) inches. Class I or Class II compost is required.
6. Trees, large shrubs and permanent objects are not permitted in water, sanitary and storm sewer utility easements.
7. All landscape is to be installed per Town of Castle Rock planting details.
8. Plant species and location should follow the approved plan, if site conditions or plant availability require changes to the plan, the contractor must obtain approval from the Town of Castle Rock and the owner's representative.
9. Town of Castle Rock is not responsible for replacing landscape or irrigation removed in utility easements due to utility line maintenance or repair (PWR 14.3.13)
10. Town permit and Town approved landscape plans are required on site during installation of the landscape and irrigation.
11. Town inspectors will not approve landscape and overhead irrigation on slopes steeper than 3:1.
12. Overhead irrigation is not permitted on slopes equal to 3:1 or in areas less than 10' in width.

CASTLE ROCK IRRIGATION NOTES

1. Installing contractor shall contact the Town of Castle Rock utilities department at 720.733.6017 to schedule a pre-construction meeting before beginning the installation of the irrigation system.
2. Irrigation shall be installed by a Town of Castle Rock registered landscape contract professional.
3. Backflow to be tested by a certified backflow technician approved by the utility department within 10 days of the irrigation meter installation and annually thereafter.
4. Irrigation exemption must be obtained from the Castle Rock Water if irrigating the native seed or the sod on a daily basis for establishment during the months of June and August. Irrigation exemptions will not be issued during the month of July.
5. Irrigation systems must be designed to operate within the Town of Castle Rock Water Use Management plan. Current commercial hours of operation are a three fixed days a week from 10 pm to 6 am.
6. Overhead irrigation in areas less than 10' in width or installed on slopes steeper than 3:1 will not be approved by Town of Castle Rock inspectors.
7. All irrigation installations must meet Town of Castle Rock details
8. Please note that the irrigation tap, line, meter and backflow prevention assembly must be the same size from the tap to a minimum distance of 10 pipe diameters past the backflow prevention assembly and winterization tee.
9. All sprinkler heads to be adjusted to minimize/eliminate over spray on to hard surfaces or unintended areas. Per Town of Castle Rock Water Use Management Plan Water Waste is not allowed
10. Irrigation systems are to be winterized annually in the fall.

GENERAL GRADING NOTES

1. ALL AREAS ARE TO BE GRADED TO ACHEIVE POSITIVE DRAINAGE. MINIMUM SLOPE ON LANDSCAPED AREAS SHALL BE 2%, MAXIMUM SLOPE SHALL BE 3:1.
2. MAXIMUM ALLOWED FINAL GRADES FOR LONGITUDINAL SLOPE ON WALKS AND PAVED AREAS SHALL BE 6% UNLESS OTHERWISE INDICATED ON PLANS.
3. ALL SLOPES EQUAL OR GREATER THAN 3:1 ARE TO BE CALLED OUT ON THE LANDSCAPE SHEETS.

CORE NOTES

Overhead distribution lines and structures

1. TREES GROWING TALLER THAN 10 FEET SHOULD NOT BE PLANTED WITHIN DISTRIBUTION LINE IN RIGHTS-OF-WAY, HOWEVER, THEY MAY BE PLANTED AT LEAST 20 FEET (HORIZONTALLY FROM OVERHEAD ELECTRIC DISTRIBUTION LINES, REGARDLESS OF THE WIDTH OF THE RIGHT-OF-WAY.
2. ALL TREES SHOULD BE PLANTED AT LEAST 20 FEET FROM POLES AND STRUCTURES.
3. SHRUBS, GROUND COVERS AND FLOWERBEDS MAY BE PLANTED UP TO THE BASE OF POLES AND STRUCURES. HOWEVER, PLANT MATERIAL MAY BE DESTROYED DURING OPERATIONS AND MAINTENANCE OF LINES. DAMAGED OR DESTROYED MATERIAL WILL NOT BE REPLACED.

Overhead distribution lines and structures

1. ALL TREES SHOULD BE PLANTED AT LEAST 10 FEET FROM EQUIPMENT.
2. SHRUBS, GROUND COVERS, AND FLOWERBEDS MAY BE PLANTED UP TO 3 FEET FROM EQUIPMENT EXCEPT AT LEAST 10 FEET SHALL BE KEPT CLEAR IN FRONT OF TRANSFORMER SWITCH DOORS. HOWEVER, PLANT MATERIAL MAY BE DESTROYED DURING OPERATIONS AND MAINTENANCE OF LINES. DAMAGED OR DESTROYED MATERIAL WILL NOT BE REPLACED.

BEFORE YOU DIG
CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
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Plant Schedule & Legend

QUAN.	KEY	COMMON NAME	BOTANICAL NAME	SIZE	CONDITION	HYDROZONE	MATURE SIZE heightxwidth
DECIDUOUS SHADE TREES							
10	SMH	Shademaster Honeylocust (5 SMH in ROW, 5 on site)	Gleditsia triacanthos inermis	2" caliper	b&b	2	40'x30'
7	SWO	Swamp White Oak	Quercus bicolor	2" caliper	b&b	2	50'x35'
8	LIN	Littleleaf Linden	Tilia cordata	2" caliper	b&b	3	40'x30'
5	BTM	Big Tooth Maple	Acer grandentatum	2" caliper	b&b	2	25'x15'
ORNAMENTAL TREES							
7	CHP	Chanticleer Pear	Pyrus calleryana 'Chanticleer'	1.5" caliper	b&b	2-3	25'x15'
EVERGREEN TREES							
7	AUS	Austrian Pine	Pinus nigra	6' ht.	b&b	2	45'x30'
4	CBS	Colorado Blue Spruce	Pinus pungens	6' ht.	b&b	3	60'x30'
EVERGREEN SHRUBS							
23	COL	Cologreen Juniper	Juniperus chinensis	5 gal.	container	2	16'x8'
31	ARM	Armstrong Juniper	Juniperus chinensis 'Armstrongii'	5 gal.	container	2	4'x4'
DECIDUOUS SHRUBS							
26	REG	Regent Serviceberry	Amelanchier alnifolia 'Regent'	5 gal.	container	2-3	6'x6'
61	LPS	Little Princess Spriea	Spirea japonica 'Little Princess'	5 gal.	container	2-3	3'x4'
17	DFS	Dwarf Fragrant Sumac	Rhus aromatica 'Gro-low'	5 gal.	container	2	3'x6'
36	GDP	Gold Drop Potentilla	Potentilla fruticosa 'Gold Drop'	5 gal.	container	2	3'x3'
39	MKL	Miss Kim Lilac	Syringa patula 'Miss Kim'	5 gal.	container	2-3	5'x4'
13	CPL	Common Purple Lilac	Syringa vulgaris	5 gal.	container	2-3	12'x5'
38	VIB	Mohican Viburnum	Viburnum lantana 'Mohican'	5 gal.	container	2-3	8'x4
52	DMM	Dwarf Mountain Mahogany	Cercoparus intricatus	5 gal.	container	1	4'x3'
ORNAMENTAL GRASSES							
147	KFG	Feather Reed Grass	Calamagrostis acutiflora 'K Foerster'	1 gal.	container	2-3	4'x3'
47	BBS	Big Bluestem Grass	Andropogan geraradii	1 gal.	container	2	5'x3'
95	BLU	Blonde Ambition Grama	Bouteloua gracilis 'Blonde Ambition'	1 gal.	container	2	3'x2'
PERENNIALS							
25	JB	Jupiers Beard	Centranthus rubur	1 gal.	container	1-2	3'x2'
25	CO	Coreopsis	Coreopsis grandiflorara	1 gal.	container	2	2'x3'
24	CT	Catmint	Nepeta x faassenii 'Walkers Low'	1 gal.	container	1-2	3'x2'
24	SA	Salvia	Salvina nemerosa 'May Night'	1 gal.	container	1-2	3'x2'

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TOWN APPROVAL BLOCK

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services *Date*

TIM DUNN A.S.L.A. R.L.A.
TIM DUNN DESIGN LANDSCAPE ARCHITECTURE
tadunn1958@gmail.com 720-350-2411
www.timdunnlandscapearchitect.com

REV. NO.	DESCRIPTION	DATE

CASTLE ROCK LIMELIGHT, LLC

CASTLE ROCK LIMELIGHT RETAIL
PLAN SCHEDULE, CASTLE ROCK NOTES

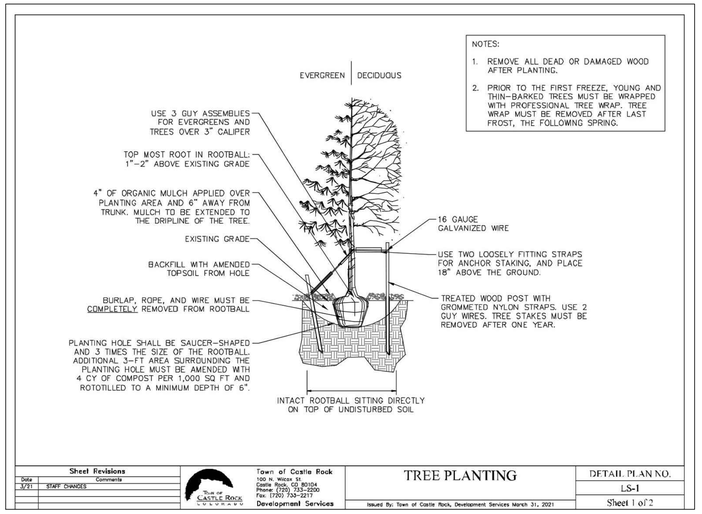
CASTLE ROCK, COLORADO 80108

TIM DUNN A.S.L.A. 02/26/2008 Original Date of Licensure STATE OF COLORADO COLORADO LANDSCAPE ARCHITECT
LANDSCAPE ARCHITECT: TIM DUNN
COLORADO LICENSE 1400

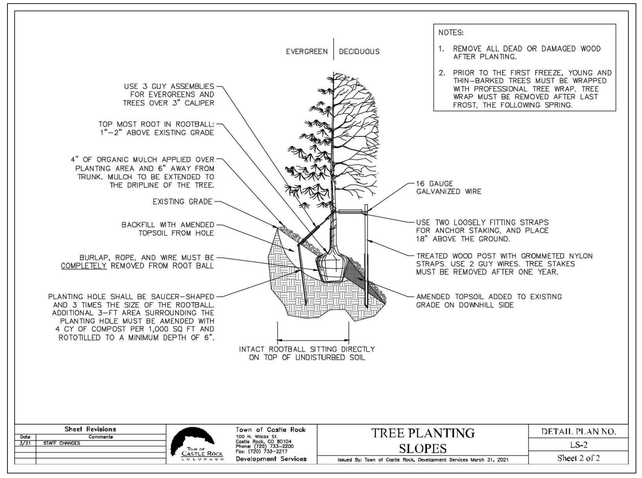
PROJ NO:
DRAWN BY: TAD
DATE : March 15, 2026

SHEET NUMBER
L.2
35 OF 44

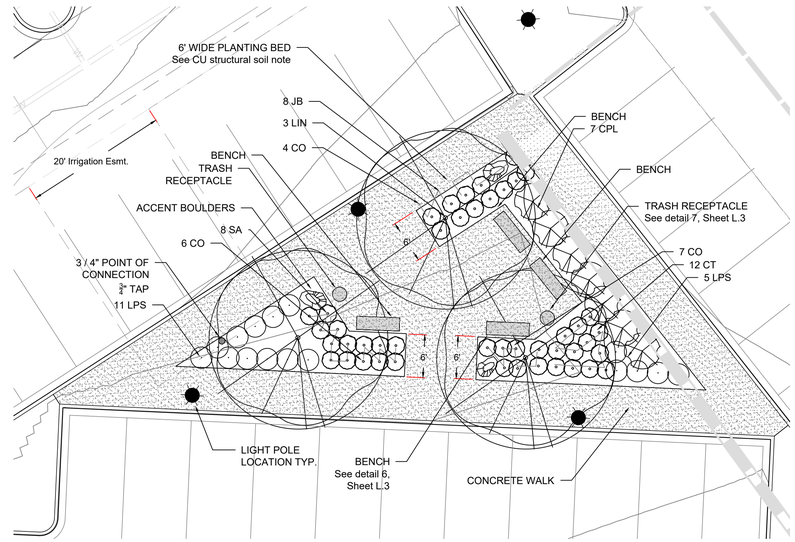
PROJECT NUMBER CD26-0008



1 L.3 Tree Planting Detail
Town of Castle Rock



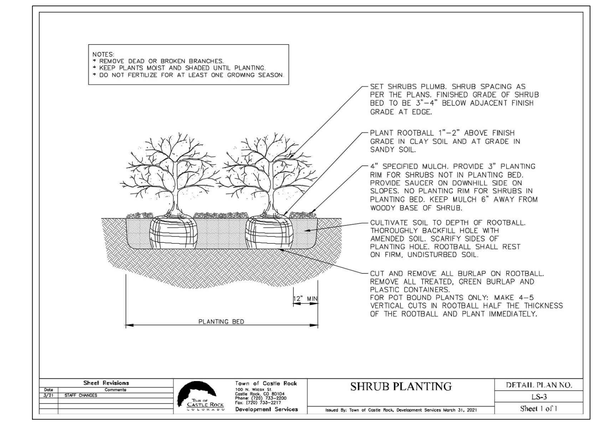
2 L.3 Tree Planting Detail on Slopes
Town of Castle Rock



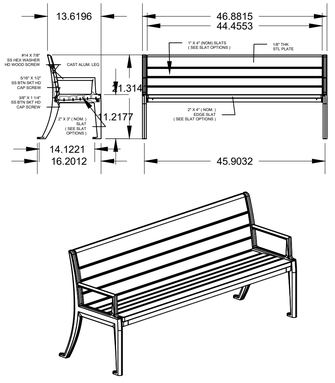
Courtyard Detail

Per Town of Castle Rock Section 4.4.5.1, CU Structural Soil will be used in all planting beds shown in this plaza detail.

North Scale 1"=10'

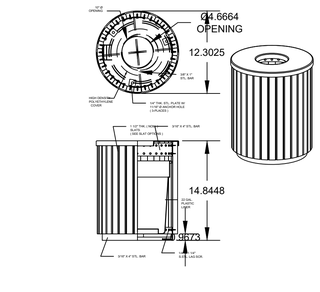


3 L.3 Shrub Planting Detail
Town of Castle Rock



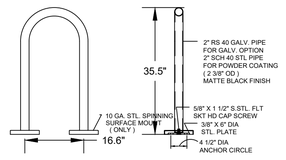
6 L.3 BENCH DETAIL

DUMOR BENCH 6' - 270 SERIES SURFACE MOUNT
MATTE BLACK POWDER COAT FINISH
INSTALL PER MANUFACTURERS RECOMMENDATIONS
RECYCLED PLASTIC CEDAR COLOR



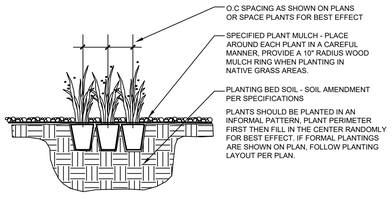
7 L.3 TRASH RECEPTACLE

DUMOR TRASH RECEPTACLE - MODEL 70 SURFACE MOUNT
MATTE BLACK POWDER COAT FINISH
INSTALL PER MANUFACTURERS RECOMMENDATIONS
RECYCLED PLASTIC CEDAR COLOR

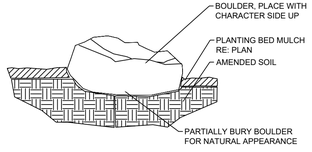


8 L.3 BIKE RACK

DUMOR BIKE RACK - 83 SERIES SURFACE MOUNT
MATTE BLACK POWDER COAT FINISH
INSTALL PER MANUFACTURERS RECOMMENDATIONS



4 L.3 Grass & Perennial Planting Detail



5 L.3 Boulder Placement Detail

BEFORE YOU DIG
CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

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TOWN APPROVAL BLOCK

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services *Date*

TIM DUNN A.S.L.A. R.L.A.
TIM DUNN DESIGN LANDSCAPE ARCHITECTURE
tadunn1958@gmail.com 720-350-2411
www.timdunnlandscapearchitect.com

REV. NO.	DESCRIPTION	DATE

CASTLE ROCK LIMELIGHT, LLC

CASTLE ROCK LIMELIGHT RETAIL
LANDSCAPE DETAILS

CASTLE ROCK, COLORADO 80108

TIM DUNN 400 REGISTERED 10/25/2000 Original Date of Licensure STATE OF COLORADO LANDSCAPE ARCHITECT
LANDSCAPE ARCHITECT, TIM DUNN
COLORADO LICENSE #400

PROJ NO:
DRAWN BY: TAD
DATE : March 15, 2026

SHEET NUMBER
L.3
36 OF 44

PROJECT NUMBER CD26-0008

SEEDING & MULCHING INSTALLATION NOTES

1. SEE PLAN FOR LOCATIONS OF SEEDING AND MULCHING AND TYPE OF SEED MIX.
2. PERMANENT SEEDING IN AREAS THAT ARE NOT IRRIGATED MAY BE PERFORMED YEAR ROUND ASSUMING THE SOIL IS WORKABLE AND NOT FROZEN. PREFERRED SEASONS FOR SEEDING ARE SPRING AND FALL, SEEDING DURING TIMES OF EXTREME TEMPERATURES SHALL BE AVOIDED IF POSSIBLE.
3. ALL SEED MIXES SHALL BE FREE OF NOXIOUS WEEDS AND MUST BE CERTIFIED.
4. SEED WHICH HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR STORAGE WILL NOT BE ACCEPTABLE.
5. ALL AREAS TO BE SEEDED AND MULCHED SHALL BE SURFACE ROUGHENED PRIOR TO SEEDING. SURFACE ROUGHENING SHALL OCCUR AFTER THE SPREADING OF TOP SOIL OR SOIL AMENDMENT.
AREAS THAT HAVE NOT BEEN PROPERLY ROUGHENED WILL BE REJECTED.
6. SEED IS TO BE INSTALLED USING A RANGELAND DRILL SEEDER. SEED SHALL BE PLACED AT A DEPTH OF $\frac{1}{4}$ TO $\frac{1}{2}$ INCH. ROW SPACING SHALL BE NO MORE THAN 6 INCHES. THE USE OF GRAIN DRILL SEEDERS, MECHANICAL BROADCAST SEEDERS, DRUM SEEDERS OR ANY OTHER TYPE OF SEEDER IS PROHIBITED.
7. ALL AREAS INCAPABLE OF BEING DRILL SEEDED SHALL BE SURFACED ROUGHENED USING A HARROW OR HARD TIPPED RAKE. ALL AREAS SHALL BE UNIFORMLY HAND BROADCASTED WITH THE PROPER SEED MIX APPLIED AT TWO TIMES THE DRILL SEEDED RATE.
8. AFTER SEEDING HAS BEEN COMPLETED, MULCH SHALL BE UNIFORMLY APPLIED AT A RATE OF 2 TONS/ACRE (4000 LBS/AC.). MULCH SHALL BE MECHANICALLY CRIMPED TO A DEPTH OF 2 INCHES USING A CRIMPER. MULCH SHALL BE HAND CRIMPED AND COVERED WITH A TACKIFIER IN AREAS WHERE MECHANICAL CRIMPING IS NOT POSSIBLE. ALL MULCH SHALL BE CRIMPED SUCH THAT THE INDIVIDUAL PIECES OR STRAY OR HAY FORM EXAGGERATED V-SHAPES PROTRUDING OUT OF THE GROUND SEVERAL INCHES. STRAW OR HAY IN A STAGE OF DECOMPOSITION OR OLD, DRY MULCH WHICH BREAKS DURING THE APPLICATION OR CRIMPING PROCESS WILL NOT BE ACCEPTED.
9. THE SEEDED AREA SHALL BE MULCHED AND CRIMPED WITHIN 4 HOURS AFTER SEEDING. AREAS NOT MULCHED AND CRIMPED WITHIN 4 HOURS AFTER SEEDING OR PRIOR TO PRECIPITATION OR WINDY CONDITIONS ON SITE SHALL BE RESEEDED WITH SPECIFIED SEED MIX PRIOR TO MULCHING AND CRIMPING.
10 IN CERTAIN INSTANCES, IT MAY BE NECESSARY TO APPLY A TACKIFIER IN ORDER TO HELP WITH THE STRAW DISPLACEMENT. TACKIFIER SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
11. MULCH SHALL CONSIST OF CERTIFIED WEED FREE OR MARSH STRAW OF HAY DERIVED FROM OATS, BARLEY, WHEAT, RYE, OR TRITICALE.
12. MULCH SHALL BE INSPECTED FOR ANY REGIONALLY CERTIFIED WEED FREE BASED ON THE REGIONALLY DESIGNATED NOXIOUS WEED AND UNDESIRABLE PLANT LIST FROM COLORADO, WYOMING, MONTANA, NEBRASKA, UTAH, IDAHO, KANSAS, SOUTH DAKOTA OR ANY OTHER STATE NOT LISTED THAT SERVED AS THE PLACE OF ORIGIN FOR THE STRAW MULCH.
13. THE CONTRACTOR SHALL PROVIDE A TRANSIT CERTIFICATE THAT HAS BEEN FILLED OUT AND SIGNED BY THE GROWER AND BY THE DEPARTMENT OF AGRICULTURE INSPECTOR.
14. THE CONTRACTOR MAY OBTAIN A CURRENT LIST OF COLORADO WEED FREE FORAGE CROP PRODUCERS WHO HAVE COMPLETED CERTIFICATION BY CONTACTING THE COLORADO DEPARTMENT OF OF AGRICULTURE, DIVISION OF PLANT INDUSTRY.

GENERAL SEEDING NOTES

Seed shall be labeled in accordance with the U.S. Department of Agriculture, Rules and Regulations and the Federal Seed Act. Seed shall be equal in quality to the standards for "Certified Seed" and shall be furnished in the sealed unopened, standard containers. Seed shall be fresh, clean, pure live seed with the following varieties, mixed in proportions by weight shown and meeting the minimum percentages of purity and germination specified.

Seed shall be applied at a rate shown by mix. Seed shall pass government test for germination of eighty percent (80%) and for purity of ninety percent (90%). The Pure Live Seed shall not be less than 67.5% for any one variety, with the average of the mixture, no less than seventy two percent (72%). All seed shall be free of Poa annua and all noxious objectionable weeds with a maximum crop of .10% and maximum weed of .10%. If seed available on the market does not meet the minimum purity and germination percentages specified, the Contractor must compensate by furnishing sufficient additional seed to equal the specified product. Product comparison shall be made on the basis of pure live seed in pounds. The formula for determining the quality of pure live seed (PLS) shall be:

Pounds of Seed x (% Purity x % Germination) = pounds of Pure Live Seed (PLS)

WEED MANAGEMENT NOTES

1. ALL HERBICIDES SHALL BE APPLIED BY COMMERCIAL PESTICIDE APPLICATORS LICENSED BY THE COLORADO DEPARTMENT OF AGRICULTURE AS QUALIFIED APPLICATORS. THE CONTRACTOR SHALL FURNISH DOCUMENTATION OF SUCH LICENSING PRIOR TO HERBICIDE APPLICATION.

2. HERBICIDE APPLICATION METHOD SHALL BE SUCH THAT PLANT GROWTH OUTSIDE THE DESIGNATED TREATMENT AREAS WILL NOT BE DAMAGED. ALL DAMAGE CAUSED BY IMPROPER HERBICIDE APPLICATION SHALL BE REPAIRED AT THE CONSTRACTOR'S EXPENSE.

3. A NON-SELECTIVE HERBICIDE SUCH AS ROUND-UP PRO OR AN APPROVED EQUAL SHALL BE APPLIED TO ALL EXPOSED AREAS TO BE SEEDED IF THERE IS ANY PRESENCE OF WEED GROWTH PRIOR TO SURFACE ROUGHENING FOR PERMANENT SEEDING AND MULCHING. ROUND-UP PRO SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.

4. HERBICIDES SHALL BE APPLIED DURING GROWING SEASONS WHEN TARGET PLANTS ARE ACTIVELY GROWING.

5. ROUND-UP PRO SHALL BE APPLIED WHEN THE PROBABILITY OF FORECASTED RAINFALL IS MINIMAL FOR A PERIOD OF 48 HOURS.

6. A PERIOD OF 48 HOURS SHALL PASS AFTER THE HERBICIDE APPLICATION BEFORE THE TREATED AREAS ARE SURFACE ROUGHENED, SEEDED, AND MULCHED.

7. AFTER THE GRASS SEED IS ESTABLISHED, APPROPRIATE HERBICIDES SHALL BE APPLIED TO CONTROL THE REMAINING WEEDS AND ENSURE A TIMELY RETURN OF THE FINANCIAL SECURITY. GRASS PLANTS NEED TO BE AT A MINIMUM OF THE THREE-TILLER STAGE, OR 6 TO 8 INCHES IN HEIGHT, PRIOR TO THE HERBICIDE APPLICATION. PROPER TIMING OF HERBICIDE APPLICATIONS ARE NECESSARY TO ACHIEVE THE SUPPRESSION OF WEED SEED PRODUCTION AND DEPLETION OF WEED ROOT MASS.

8. HERBICIDE TREATMENTS SHALL CONTINUE AT A RATE OF TWO TIMES PER YEAR UNTIL IT IS EVIDENT THAT WEED GROWTH PRESENCE AND GROWTH IS MINIMAL AND MAY BE CONTROLLED THROUGH MOWING.

9. ONLY DISTURBED AREAS SHALL BE MAINTAINED FOR WEEDS. NATIVE AREAS IN THEIR UNDISTURBED CONDITION SHALL REMAIN AS IS.

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TOWN APPROVAL BLOCK

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM
DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services *Date*

TIM DUNN A.S.L.A. R.L.A.
TIM DUNN DESIGN LANDSCAPE ARCHITECTURE
tadunn1958@gmail.com 720-350-2411
www.timdunnlandscapearchitect.com

REV. NO.	DESCRIPTION	DATE

CASTLE ROCK LIMELIGHT, LLC

CASTLE ROCK LIMELIGHT RETAIL
SEEDING & MAINTENANCE NOTES

CASTLE ROCK, COLORADO 80108

TIM DUNN 400 02/03/2006 Original Date of License STATE OF COLORADO REGISTERED LANDSCAPE ARCHITECT
LANDSCAPE ARCHITECT, TIM DUNN COLORADO LICENSE #400

PROJ NO:
DRAWN BY: TAD
DATE : March 15, 2026

SHEET NUMBER
L.4
37 OF 44

PROJECT NUMBER CD26-0008

Irrigation Construction Notes

1. ALL BASE INFORMATION HAS BEEN TAKEN FROM DRAWINGS PREPARED BY TIM DUNN DESIGN.
2. REFER TO TECHNICAL SPECIFICATIONS AND CONSTRUCTION DETAILS FOR INSTALLATION PROCEDURES.
3. CONTRACTOR SHALL FIELD VERIFY PRESSURE AT BACKFLOW PREVENTER LOCATION FOR EACH TAP PRIOR TO ORDERING MATERIALS OR STARTING ANY IRRIGATION INSTALLATION AND NOTIFY CONSULTANT OF ANY DIFFERENCES FROM STATED PRESSURE. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT HE ASSUMES FULL RESPONSIBILITY FOR ANY SYSTEM ALTERATIONS. SYSTEM HAS BEEN DESIGNED FOR A STATIC PRESSURE OF 91 PSI (PER CASTLE ROCK WATER).

TAP LOCATION/NUMBER	REQUIRED PRESSURE
1	71 PSI

4. CONTRACTOR SHALL COORDINATE INSTALLATION OF SLEEVING WITH INSTALLATION OF CONCRETE FLATWORK AND PAVING. ALL SLEEVING IS BY CONTRACTOR UNLESS OTHERWISE NOTED. UNLESS NOTED OTHERWISE ON IRRIGATION PLANS INSTALL SLEEVING BASED ON SLEEVE SIZING GUIDE BELOW:

PIPE SIZE OR WIRE QUANTITY	REQUIRED SLEEVE
3/4" - 1" PIPING	1-2" PVC SLEEVE
1-1/2" - 2" PIPING	1-4" PVC SLEEVE
1-25 CONTROL WIRES	1-2" PVC SLEEVE

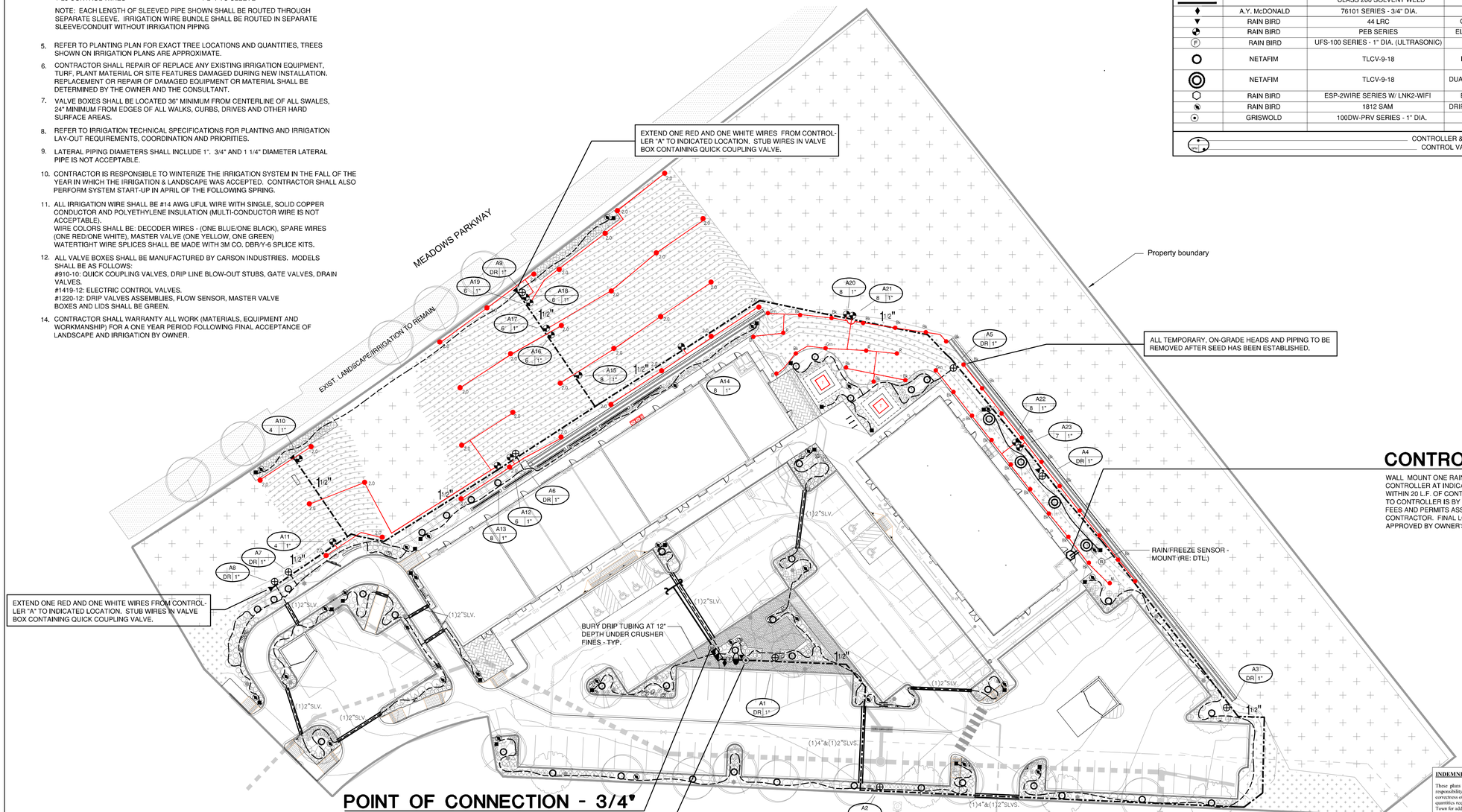
NOTE: EACH LENGTH OF SLEEVED PIPE SHOWN SHALL BE ROUTED THROUGH SEPARATE SLEEVE. IRRIGATION WIRE BUNDLE SHALL BE ROUTED IN SEPARATE SLEEVE/CONDUIT WITHOUT IRRIGATION PIPING

5. REFER TO PLANTING PLAN FOR EXACT TREE LOCATIONS AND QUANTITIES, TREES SHOWN ON IRRIGATION PLANS ARE APPROXIMATE.
6. CONTRACTOR SHALL REPAIR OF REPLACE ANY EXISTING IRRIGATION EQUIPMENT, TURF, PLANT MATERIAL OR SITE FEATURES DAMAGED DURING NEW INSTALLATION. REPLACEMENT OR REPAIR OF DAMAGED EQUIPMENT OR MATERIAL SHALL BE DETERMINED BY THE OWNER AND THE CONSULTANT.
7. VALVE BOXES SHALL BE LOCATED 36" MINIMUM FROM CENTERLINE OF ALL SWALES, 24" MINIMUM FROM EDGES OF ALL WALKS, CURBS, DRIVES AND OTHER HARD SURFACE AREAS.
8. REFER TO IRRIGATION TECHNICAL SPECIFICATIONS FOR PLANTING AND IRRIGATION LAY-OUT REQUIREMENTS, COORDINATION AND PRIORITIES.
9. LATERAL PIPING DIAMETERS SHALL INCLUDE 1". 3/4" AND 1 1/4" DIAMETER LATERAL PIPE IS NOT ACCEPTABLE.
10. CONTRACTOR IS RESPONSIBLE TO WINTERIZE THE IRRIGATION SYSTEM IN THE FALL OF THE YEAR IN WHICH THE IRRIGATION & LANDSCAPE WAS ACCEPTED. CONTRACTOR SHALL ALSO PERFORM SYSTEM START-UP IN APRIL OF THE FOLLOWING SPRING.
11. ALL IRRIGATION WIRE SHALL BE #14 AWG UFUL WIRE WITH SINGLE, SOLID COPPER CONDUCTOR AND POLYETHYLENE INSULATION (MULTI-CONDUCTOR WIRE IS NOT ACCEPTABLE).
WIRE COLORS SHALL BE: DECODER WIRES - (ONE BLUE/ONE BLACK), SPARE WIRES (ONE RED/ONE WHITE), MASTER VALVE (ONE YELLOW, ONE GREEN)
WATERTIGHT WIRE SPLICES SHALL BE MADE WITH 3M CO. DBR/Y-6 SPLICE KITS.
12. ALL VALVE BOXES SHALL BE MANUFACTURED BY CARSON INDUSTRIES. MODELS SHALL BE AS FOLLOWS:
#910-10: QUICK COUPLING VALVES, DRIP LINE BLOW-OUT STUBS, GATE VALVES, DRAIN VALVES.
#1419-12: ELECTRIC CONTROL VALVES.
#1220-12: DRIP VALVES ASSEMBLIES, FLOW SENSOR, MASTER VALVE BOXES AND LIDS SHALL BE GREEN.
14. CONTRACTOR SHALL WARRANTY ALL WORK (MATERIALS, EQUIPMENT AND WORKMANSHIP) FOR A ONE YEAR PERIOD FOLLOWING FINAL ACCEPTANCE OF LANDSCAPE AND IRRIGATION BY OWNER.

Irrigation Equipment and Materials Schedule

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.	COMMENTS
T	HUNTER	PROS-04-PRS40-CV W/ MPCorner NOZZ.	HI-POP HEAD W/ ROTARY NOZZ.	10	10
M	HUNTER	PROS-04-PRS40-CV W/ MP1000-90 NOZZ.	HI-POP HEAD W/ ROTARY NOZZ.	10	10
Bk	HUNTER	PROS-04-PRS40-CV W/ MP2000-90 NOZZ.	HI-POP HEAD W/ ROTARY NOZZ.	10	10
R	HUNTER	PROS-04-PRS40-CV W/ MP2000-360 NOZZ.	HI-POP HEAD W/ ROTARY NOZZ.	10	10
B	HUNTER	PROS-04-PRS40-CV W/ MP3000-90 NOZZ.	HI-POP HEAD W/ ROTARY NOZZ.	10	10
Grn	HUNTER	PROS-04-PRS40-CV W/ MP2000-210 NOZZ.	HI-POP HEAD W/ ROTARY NOZZ.	10	10
2.0	HUNTER	I-20-04-PRB W/ #2.0 NOZZLE	HI-POP GEAR DRIVEN ROTOR	11	11
	LASCO	SLO-CLOSE (FxF) - 1" DIA.	SLO-CLOSE BALL VALVE	9	
	FEBCO	825YA - 3/4" DIA.	BACKFLOW PREVENTER	1, 2 & 3	
M		3/4" - BY OTHERS	WATER METER	-	
	RAIN BIRD	XCZ-100-PRB-LC	DRIP VALVE ASSEMBLY	12	W/ DECODER
R	RAIN BIRD	WR2-RFC	WIRELESS RAIN/FREEZE SENSOR	18	
		LINE SIZE	DRIP LINE BLOW-OUT STUB & OPERATIONAL INDICATOR	15	W/ DECODER
		CLASS 200 SOLVENT WELD - 1" DIA. UNLESS NOTED OTHERWISE	PVC LATERAL	9	
		CLASS 200 SOLVENT WELD	PVC MAINLINE	9	
	CENTENNIAL PLASTICS	3/4" I.D.	POLY DRIP TUBING	14	
		CLASS 200 SOLVENT WELD	PVC SLEEVING		
	A.Y. McDONALD	76101 SERIES - 3/4" DIA.	MANUAL DRAIN VALVE	5	
	RAIN BIRD	44 LRC	QUICK COUPLING VALVE	8	
	RAIN BIRD	PEB SERIES	ELECTRIC CONTROL VALVE	4	W/ DECODER
F	RAIN BIRD	UFS-100 SERIES - 1" DIA. (ULTRASONIC)	FLOW SENSOR	7	
	NETAFIM	TLCV-9-18	IN-LINE DRIP TREE RING	16	
	NETAFIM	TLCV-9-18	DUAL IN-LINE DRIP TREE RINGS	17	
	RAIN BIRD	ESP-2WIRE SERIES W/ LNK2-WIFI	ELECTRIC CONTROLLER	11	TWO-WIRE SYSTEM
	RAIN BIRD	1812 SAM	DRIP OPERATIONAL INDICATOR	16	
	GRISWOLD	100DW-PRV SERIES - 1" DIA.	MASTER VALVE	3	

(valve) CONTROLLER & STATION NO.
CONTROL VALVE SIZE



CONTROLLER LOCATION "A"

WALL MOUNT ONE RAIN BIRD ESP-2WIRE SERIES 50 STATION TWO-WIRE CONTROLLER AT INDICATED LOCATION. 120 VOLT ELECTRICAL POWER IS AVAILABLE WITHIN 20 L.F. OF CONTROLLER LOCATION. ELECTRICAL POWER AND CONNECTION TO CONTROLLER IS BY CONTRACTOR WITH WORK CONFORMING TO LOCAL CODE. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID BY CONTRACTOR. FINAL LOCATION OF CONTROLLER SHALL BE REVIEWED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

POINT OF CONNECTION - 3/4"

TIE ONTO 3/4" IRRIGATION WATERR METER AT INDICATED LOCATION. EXTEND 3/4" K SOFT COPPER AT 54" DEPTH TO BACKFLOW PREVENTER LOCATION. INSTALL ONE 3/4" STOP & WASTE VALVE, ONE 3/4" REDUCED PRESSURE BACKFLOW PREVENTER AND ENCLOSURE, ONE 1" FLOW SENSOR, ONE 3/4" MANUAL DRAIN VALVE, ONE 1" ISOLATION VALVE, ONE QUICK COUPLING VALVE, ONE 1" MASTER VALVE AND EXTEND CLASS 200 PVC MAINLINE AS SHOWN. EXTEND TWO 14 GA. IRRIGATION WIRES (MASTER VALVE AND ONE RUN PAIGE ELEC. P7171D-A CABLE (FLOW SENSOR) TO CONTROLLER. WORK SHALL CONFORM TO LOCAL CODE. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID BY CONTRACTOR. FINAL LOCATION OF BACKFLOW PREVENTER SHALL BE REVIEWED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.

Know what's below Call before you dig.

North Scale 1"=30'

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Approved By:

Development Services *Date*

IRRIGATION DESIGN PREPARED BY DAVID ZICKERMAN TOCR #15-1032

Xpert IRRIGATION DESIGN
DAVID ZICKERMAN TOCR #1032
LITTLETON, COLORADO 80127
303-346-2698
xpertdesign@qwest.net

REV. NO.	DESCRIPTION	DATE
1	CASTLE ROCK WATER RE-SUBMITTAL	05/28/2026

CASTLE ROCK LIMELIGHT, LLC

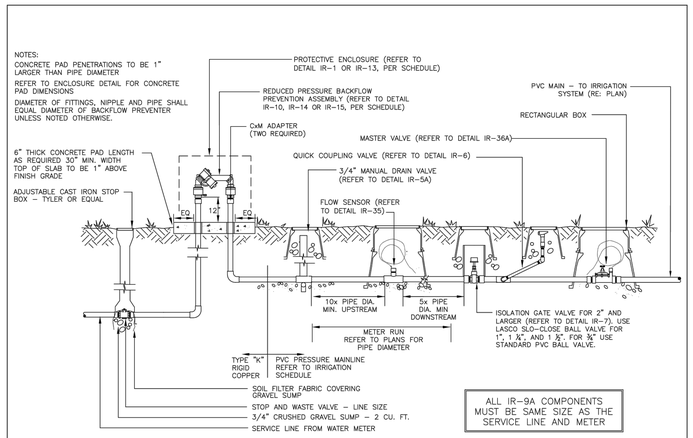
CASTLE ROCK LIMELIGHT RETAIL
IRRIGATION PLAN

CASTLE ROCK, COLORADO 80108

PROJ NO:
DRAWN BY: DZ
DATE :

SHEET NUMBER
I.1
38 OF 44

PROJECT NUMBER CD26-0008

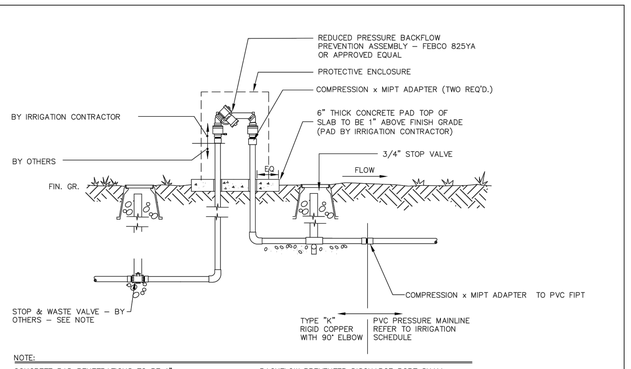


Sheet Revisions	
Date	Comments
3/21	STAFF CHANGES
9/23	REVISED BY STAFF
1/24	REVISED BY STAFF

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

POINT OF CONNECTION	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-9A
	SHEET 1 OF 1

POINT OF CONNECTION 1



NOTE:

CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN TUBING DIAMETER

DIAMETER OF FITTINGS, NIPPLE AND TUBING SHALL EQUAL DIAMETER OF BACKFLOW PREVENTER UNLESS NOTED OTHERWSE.

BACKFLOW PREVENTER DISCHARGE PORT SHALL BE INSTALLED 12" MIN. FROM TOP OF CONCRETE PAD.

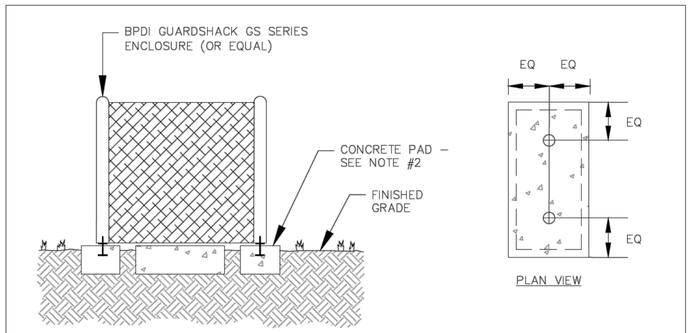
STOP & WASTE VALVE SHALL BE COMPRESSION FITTING ONLY, NO THREADS OR FLARED FITTINGS.

Sheet Revisions	
Date	Comments
3/21	STAFF CHANGES
9/23	REVISED BY STAFF
1/24	REVISED BY STAFF

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

BACKFLOW PREVENTER 2" & SMALLER (Town Owned)	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-10B
	Sheet 1 of 1

BACKFLOW PREVENTER 2



NOTES:

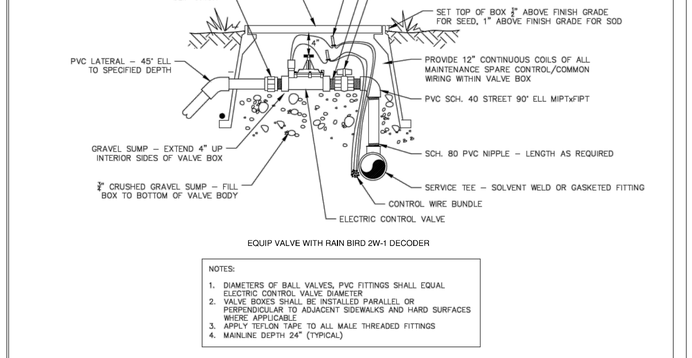
1. PAD PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1" LARGER THAN RISER IN DIAMETER
2. CONCRETE PAD DEPTH SHALL BE 6" WITH 1" ABOVE FINISH GRADE
3. INSTALL ENCLOSURE ANCHORS AS PER MANUFACTURER'S RECOMMENDATIONS
4. PROVIDE ENCLOSURE IN FEDERAL GREEN COLOR

Sheet Revisions	
Date	Comments
4/23	REVIEWED BY STAFF
1/24	REVISED BY STAFF

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

BACKFLOW ENCLOSURE	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-1
	Sheet 1 of 1

BACKFLOW ENCLOSURE 3



EQUIP VALVE WITH RAIN BIRD 2W-1 DECODER

NOTES:

1. DIAMETERS OF BALL VALVES, PVC FITTINGS SHALL EQUAL ELECTRIC CONTROL VALVE DIAMETER
2. VALVE BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT SIDEWALKS AND HARD SURFACES WHERE APPLICABLE
3. APPLY TEFLON TAPE TO ALL MALE THREADED FITTINGS
4. MAINLINE DEPTH 24" (TYPICAL)

Sheet Revisions	
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Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
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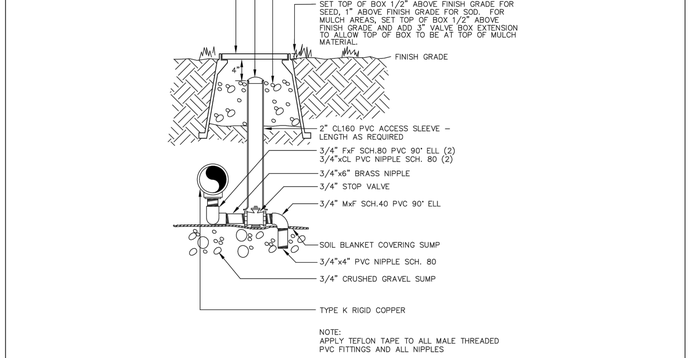
Fax: (720) 733-2217
Development Services

ELECTRIC CONTROL VALVE	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-16
	Sheet 1 of 1

ELECTRIC CONTROL VALVE 4



NOTE:
APPLY TEFLON TAPE TO ALL MALE THREADED PVC FITTINGS AND ALL NIPPLES

Sheet Revisions	
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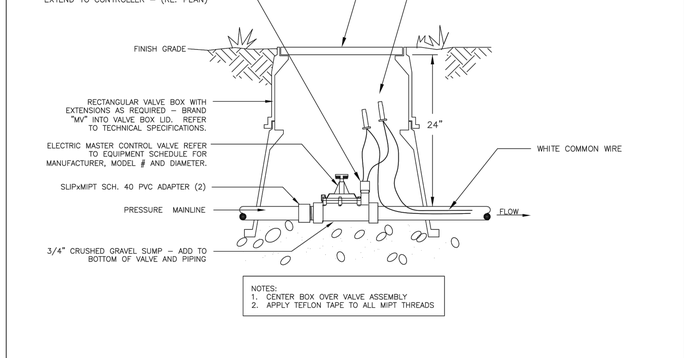
9/23	REVISED BY STAFF
1/24	REVISED BY STAFF

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

MANUAL DRAIN VALVE (Town Owned)	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-5B
	Sheet 1 of 1

MANUAL DRAIN VALVE 5



NOTES:
1. CENTER BOX OVER VALVE ASSEMBLY
2. APPLY TEFLON TAPE TO ALL MIPT THREADS

Sheet Revisions	
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3/21	STAFF CHANGES
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1/24	REVISED BY STAFF

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

MASTER VALVE	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-36A
	SHEET 1 OF 1

MASTER VALVE 6

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

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All work shall be constructed in accordance with the Town of Castle Rock Municipal Code, Technical Manuals and/or other Town-approved applicable standards.

TOWN APPROVAL BLOCK

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services *Date*

IRRIGATION DESIGN PREPARED BY DAVID ZICKERMAN TOCR #15-1032

Avocet IRRIGATION DESIGN
11757 W. KEN CARYL AVE., SUITE F-508
LITTLETON, COLORADO 80127
303.904.0244
avocet@wispertel.net

REV. NO.	DESCRIPTION	DATE
1	CASTLE ROCK WATER RE-SUBMITTAL	05/28/2026

CASTLE ROCK LIMELIGHT, LLC

CASTLE ROCK LIMELIGHT RETAIL
IRRIGATION DETAILS

CASTLE ROCK, COLORADO 80108

PROJ NO:

DRAWN BY: DZ

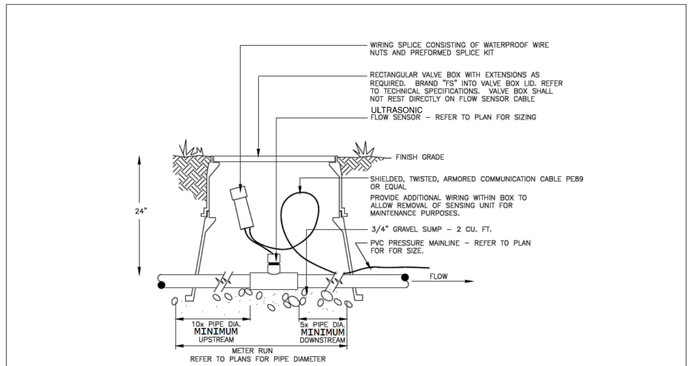
DATE :

SHEET NUMBER

I.2

39 OF 44

PROJECT NUMBER CD26-0008



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Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

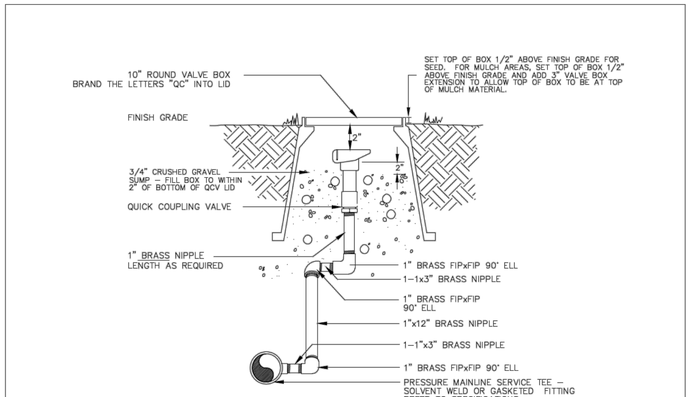
FLOW SENSOR

DETAIL PLAN NO. IR-35

Issued By: Town of Castle Rock, Development Services February 1, 2024

SHEET 1 OF 1

FLOW SENSOR 7



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Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

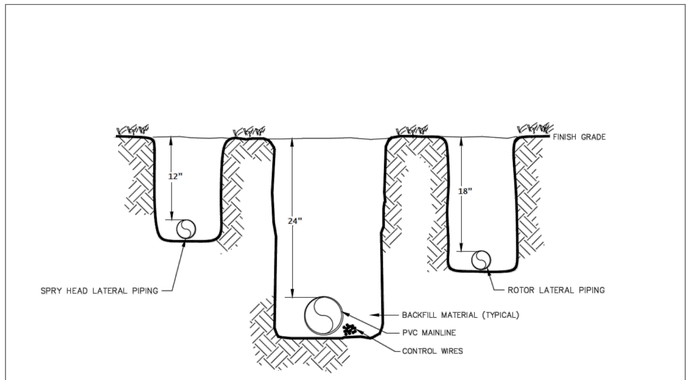
QUICK COUPLING VALVE

DETAIL PLAN NO. IR-6

Issued By: Town of Castle Rock, Development Services February 1, 2024

Sheet 1 of 1

QUICK COUPLING VALVE 8



Sheet Revisions	
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1/24	REVISED BY STAFF

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

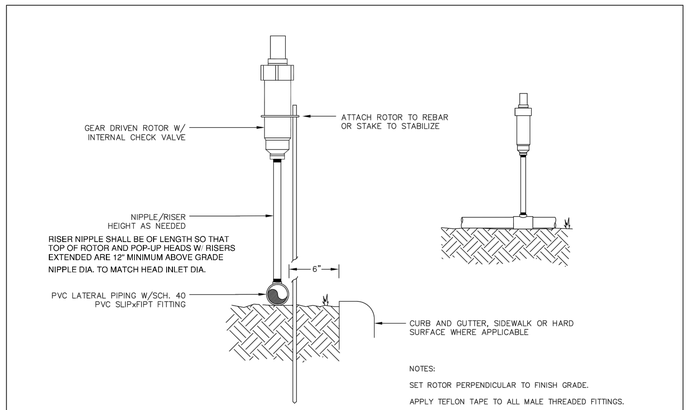
MAIN LINE & LATERAL TRENCH

DETAIL PLAN NO. IR-21

Issued By: Town of Castle Rock, Development Services February 1, 2024

Sheet 1 of 1

TRENCHES 9



Sheet Revisions	
Date	Comments

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

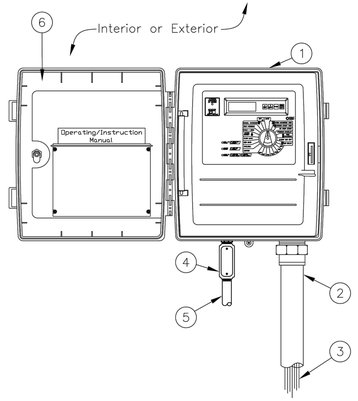
TEMP ABOVE GROUND GEAR DRIVEN ROTOR

DETAIL PLAN NO. IR-3

Issued By: Town of Castle Rock, Development Services October 24, 2025

Sheet 1 of 1

ON-GRADE HEAD 10



1. CONTROLLER: WALL MOUNT
2. 2–INCH PVC SCH 40 CONDUIT AND FITTINGS
3. WIRES TO CONTROL VALVES
4. JUNCTION BOX
5. 1–INCH PVC SCH 40 CONDUIT AND FITTINGS TO DEDICATED POWER SUPPLY
6. INCLUDE ZONE CHART

Sheet Revisions	
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3/21	STAFF CHANGES
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1/24	REVISED BY STAFF

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
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Development Services

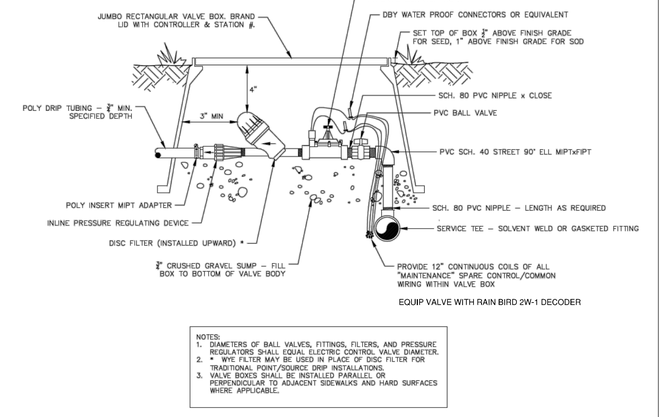
WEATHER-BASED CONTROLLER: WALL MOUNT

DETAIL PLAN NO. IR-26

Issued By: Town of Castle Rock, Development Services February 1, 2024

Sheet 1 of 1

CONTROLLER 11



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Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
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Development Services

DRIP / SUB-SURFACE VALVE ASSEMBLY

DETAIL PLAN NO. IR-18

Issued By: Town of Castle Rock, Development Services February 1, 2024

Sheet 1 of 1

DRIP VALVE ASSEMBLY 12

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

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TOWN APPROVAL BLOCK

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services *Date*

IRRIGATION DESIGN PREPARED BY DAVID ZICKERMAN TOCR #15-1032

Arvada IRRIGATION DESIGN
11757 W. KEN CARYL AVE., SUITE F-508
LITTLETON, COLORADO 80127
303-904-4056
arvada@wispertel.net

REV. NO.	DESCRIPTION	DATE
1	CASTLE ROCK WATER RE-SUBMITTAL	05/28/2026

CASTLE ROCK LIMELIGHT, LLC

CASTLE ROCK LIMELIGHT RETAIL
IRRIGATION DETAILS

CASTLE ROCK, COLORADO 80108

PROJ NO:

DRAWN BY: DZ

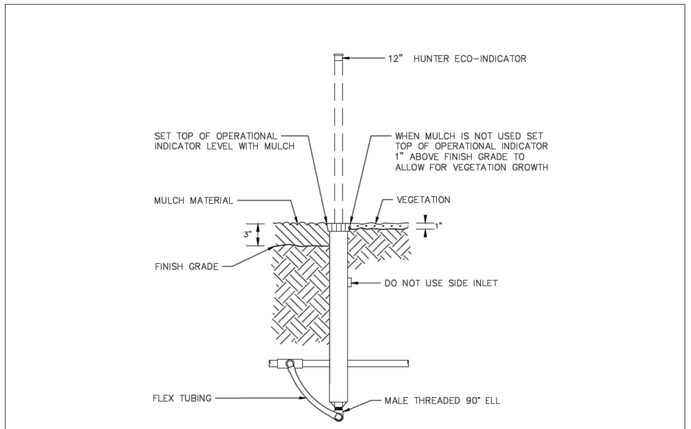
DATE :

SHEET NUMBER

I.3

40 OF 44

PROJECT NUMBER CD26-0008

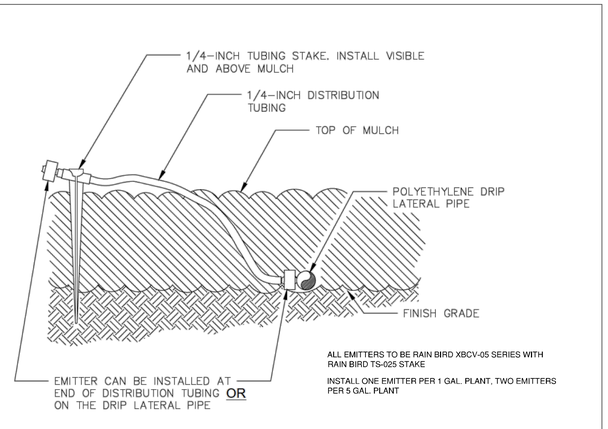


Sheet Revisions		
Date	Comments	
3/21	STAFF CHANGES	
4/23	STAFF CHANGES	
1/24	REVISED BY STAFF	

Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

NON-RESIDENTIAL OPERATIONAL INDICATOR	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-34
	Sheet 1 of 1

INTERMEDIATE DRIP OPERATIONAL INDICATOR 13



Sheet Revisions		
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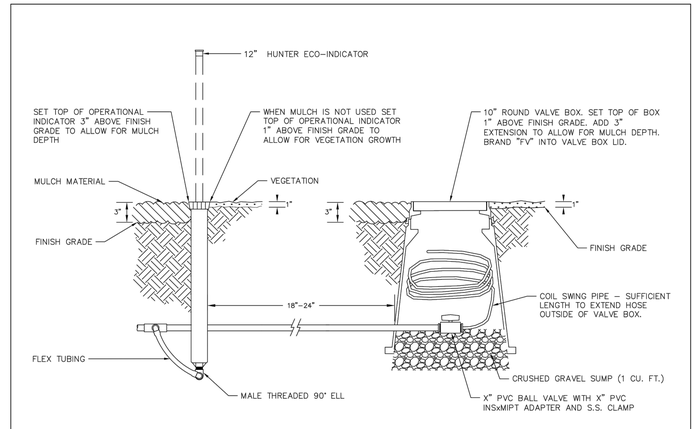
Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
Phone: (720) 733-2200
Fax: (720) 733-2217
Development Services

DRIP EMITTER ON STAKE	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-25
	Sheet 1 of 1

DRIP EMITTER 14



Sheet Revisions		
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Town of Castle Rock
100 N. Wilcox St.
Castle Rock, CO 80104
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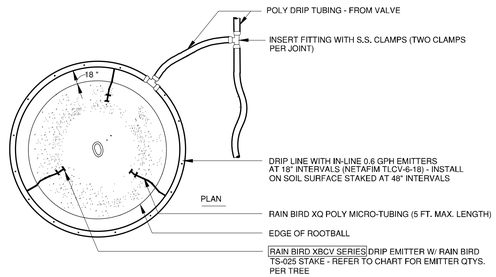
Development Services

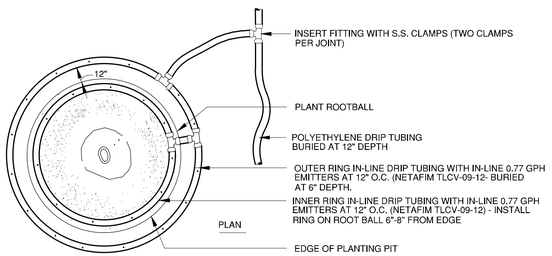
NON-RESIDENTIAL FLUSH-OUT & OPERATIONAL INDICATOR	DETAIL PLAN NO.
Issued By: Town of Castle Rock, Development Services February 1, 2024	IR-32
	Sheet 1 of 1

DRIP FLUSH-OUT and OPERATIONAL INDICATOR 15

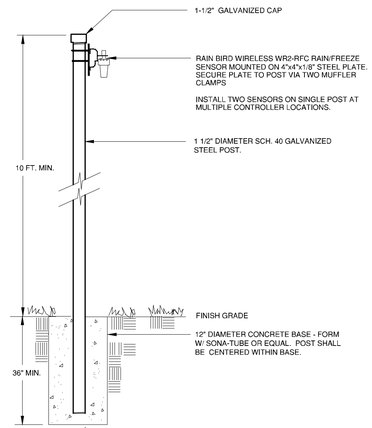


PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS
1 1/2" CALIPER TREE	1.0 GPH	THREE EACH
2" CALIPER TREE	1.0 GPH	FOUR EACH
2 1/2" CALIPER TREE	1.0 GPH	SIX EACH
6 FT. CONIFEROUS TREE	1.0 GPH	FOUR EACH
8 FT. CONIFEROUS TREE	1.0 GPH	SIX EACH

TREE RING DRIP ASSEMBLY 16



DUAL TREE RING DRIP ASSEMBLY 17



RAIN/FREEZE SENSOR 18

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

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TOWN APPROVAL BLOCK

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Approved By:

Development Services *Date*

IRRIGATION DESIGN PREPARED BY DAVID ZICKERMAN TOCR #15-1032

Avocet IRRIGATION DESIGN
11172 W. KEWAUNEE PLACE
LITTLETON, COLORADO 80127
303-362-3698
avocetdesign@att.net

REV. NO.	DESCRIPTION	DATE
1	CASTLE ROCK WATER RE-SUBMITTAL	05/28/2026

CASTLE ROCK LIMELIGHT, LLC

CASTLE ROCK LIMELIGHT RETAIL
IRRIGATION DETAILS

CASTLE ROCK, COLORADO 80108

PROJ NO:

DRAWN BY: DZ

DATE :

SHEET NUMBER

I.4

41 OF 44

PROJECT NUMBER CD26-0008

ANNUAL WATER USE CALCULATIONS

Seasonal Water Use and Peak Flow Projections
3/30/26

Description	Irrigated Acres	Month	Application Rate (in./month)	Monthly water use (gallons)	Maximum Required Flow-(GPM
Irrigated Turf Grass		April	0.00	0	
		May	2.07	0	
		June	3.11	0	
	0.000	July	4.00	0	0.0
		August	3.40	0	
		Sept.	2.22	0	
		Octobe	0.00	0	
annual sub-total			14.80 /yr	0 /yr	
				0.00 acrefeet	
Irrigated Shrub Beds		April	0.00	0	
		May	1.36	11,078	
		June	2.13	17,350	
	0.300	July	2.72	22,156	4.4
		August	2.37	19,305	
		Sept.	1.42	11,567	
		Octobe	0.00	0	
annual sub-total			10.00 /yr	81,457 /yr	
				0.25 acrefeet	
Irrigated Native Grass		April	0.00	0	
		May	0.50	9,096	
		June	0.76	13,826	
	0.670	July	1.00	18,192	3.6
		August	0.86	15,645	
		Sept.	0.55	10,006	
		Octobe	0.00	0	
annual sub-total			3.67 /yr	66,765 /yr	
				0.20 acrefeet	

HYDRAULIC CALCULATIONS

TOWN OF CASTLE ROCK COLORADO

Irrigation System Hydraulic Worksheet

Project Name:	**Limelight**						**Date:**	March 30, 2026	
Project Location:									
Prepared by:	**David Zickerman**						**Current TOCR Registration #**	15-1032	
	Controller "A" - zone A14								
Tap Size		**0.75**	**"**		**Source of Pressure**	Town of Castle Rock Utilities			
Static Water Pressure:		**91**	**psi**						
Hydraulic Grade At Zone:					**Company**	Avocet Irrigation Design			
	Ft. of Copper			Pipe Size (")	K Copper	Friction Loss (from chart)		Flow-GPM	Loss/Gain
Service Line (tap to meter):	20	LF		0.75	K Copper	9.53	/100 FT	8	1.91
Water Meter:				0.75		1.00		8	1.00
Service Line (meter to backflow):	15	LF		0.75	K Copper	9.53	/100 FT	8	1.43
Backflow:		Febco 825YA		0.75		12		8	12.00
Master Valve:		Griswold DWS		3/4		4.7		8	4.70
Pressure Required at Head:		Hunter I-20 rotor							45
Lateral Allowance:									2.00
Control Valve Allowance:									1.80
Mainline Allowances:									
Length of Mainline	Pipe Material		Size		Gals.				
760	LF CL200BE		1.5"	"@	8	GPM	0.14	/100 FT	1.06
	LF CL200BE			"@	8	GPM-Looped		/100 FT	0.00
Elevation:									
	Tap elevation		6,122			High/Low:	6,121		-0.43

Green shading indicates required information you must provide

Total System requirements (PSI)	***70.47***
Available System Pressure (PSI)	***91.00***

Town of Castle Rock provides a minimum of 43 psi

Total irrigated area for tap # 1 ***is*** 42,250 ***sq. ft.***

IRRIGATION SCHEDULE

TOWN OF CASTLE ROCK COLORADO

IRRIGATION CHART

Registered Professional David Zickerman Registration # 15-1032 Date 04-16-19

Company Name Avocet Irrigation Design Address 7114 W. Jefferson Ave.., Suite 200, Lakewood, CO
Phone 303-986-2175 Email avocet@wispertel.net Clock Make: Hunter I-CORE

r Circle r Diamond r Square

	Zone	Hydrozone (Very Low <5" Low 5-10" Medium 10-15" High >15")	Plant Type (Turf, Native, Shrubs, Perennials, Trees, Annuals, etc.)	Head Type (Rotors, Sprays, Bubblers, Drip, SDI, etc.)	Nozzle (Nozzle/ Emitter size)	App. Rate (inches/hour)	GPM (Per Zone)	Inches/Month (Peak not to exceed 6"/month or 1.5"/week)	Run Time (Minutes/ Month)	Run Time (Minutes Every Third Day))	Water Usage (Gallons per month)
	Ex. 1	*High*	*Blue Grass*	*RB 1806 SAM PRS*	*15'*	*1.83*	*t5*	*6*	*197*	*20*	*2951*
	Ex. 2	*Low*	*Buffalo Grass*	*Hunter I-20*	*3*	*1.83*	*t5*	*1*	*33*	*3*	*492*
	A1	Low	Trees/Shrubs	Drip	varies	1	4	2	120	12	480
	A2	Low	Trees/Shrubs	Drip	varies	1	3	2	120	12	360
	A3	Low	Trees/Shrubs	Drip	varies	1	2	2	120	12	240
	A4	Low	Trees/Shrubs	Drip	varies	1	2	2	120	12	240
	A5	Low	Trees/Shrubs	Drip	varies	1	2	2	120	12	240
	A6	Low	Trees/Shrubs	Drip	varies	1	2	2	120	12	240
	A7	Low	Trees/Shrubs	Drip	varies	1	2	2	120	12	240
	A8	Low	Trees/Shrubs	Drip	varies	1	3	2	120	12	360
	A9	Low	Trees/Shrubs	Drip	varies	1	1	2	120	12	120
TEMPORARY	A10	Low	Native seed	Hunter I-20 w/ 2.0 PC nozzle	2	0.38	4	2	316	32	1263
TEMPORARY	A11	Low	Native seed	Hunter I-20 w/ 2.0 PC nozzle	2	0.38	4	2	316	32	1263
TEMPORARY	A12	Low	Native seed	Hunter I-20 w/ 2.0 FC nozzle	2	0.19	6	2	632	63	3789
TEMPORARY	A13	Low	Native seed	Hunterl-20 w/ 2.0 FC nozzle	2	0.19	8	2	632	63	5053
TEMPORARY	A14	Low	Native seed	Hunterr I-20 w/ 2.0 PC nozzle	2	0.38	8	2	316	32	2526
TEMPORARY	A15	Low	Native seed	Hunterl-20 w/ 2.0 FC nozzle	2	0.19	8	2	632	63	5053
TEMPORARY	A16	Low	Native seed	Hunter I-20 w/ 2.0 FC nozzle	2	0.19	6	2	632	63	3789
TEMPORARY	A17	Low	Native seed	Hunter I-20 w/ 2.0 FC nozzle	2	0.19	6	2	632	63	3789
TEMPORARY	A18	Low	Native seed	Hunter I-20 w/ 2.0 PC nozzle	2	0.38	8	2	316	32	1895
TEMPORARY	A19	Low	Native seed	Hunterl-20 w/ 2.0 PC nozzle	2	0.38	8	2	316	32	2526
TEMPORARY	A20	Low	Native seed	Hinter PROS12--PRS40-CV	2	0.43	8	2	279	28	2233
TEMPORARY	A21	Low	Native seed	Hinter PROS12--PRS40-CV	2	0.43	8	2	279	28	2233
TEMPORARY	A22	Low	Native seed	Hinter PROS12--PRS40-CV	2	0.43	8	2	279	28	2233
TEMPORARY	A23	Low	Native seed	Hinter PROS12--PRS40-CV	2	0.43	7	2	279	28	1953
								Totals	6933	693	42119
	Total								**Min/Month**	**Min/cycle**	**Gallons/Month**

TEMPORARY

Town Irrigation Notes

1. THE IRRIGATION TAP, LINE, METER AND BACKFLOW PREVENTION ASSEMBLY MUST BE THE SAME SIZE FROM THE TAP TO A MINIMUM DISTANCE OF 10 PIPE DIAMETERS PAST THE BACKFLOW PREVENTION ASSEMBLY AND WINTERIZATION TEE.
2. IRRIGATION AMOUNTS ARE TO BE ADJUSTED SEASONALLY.
3. IRRIGATION SYSTEMS ARE TO BE WINTERIZED ANNUALLY IN THE FALL.
4. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN APPROVED BY THE UTILITY DEPT. WITHIN 10 DAYS OF THE IRRIGATION METER INSTALLATION AND ANNUALLY THEREAFTER.
5. CONTACT THE TOWN OF CASTLE ROCK UTILITIES DEPARTMENT AT 720-733-6017 FOR A PRE-CONSTRUCTION MEETING BEFORE BEGINNING THE IRRIGATION SYSTEM INSTALLATION.
6. ALL IRRIGATION INSTALLATIONS MUST MEET TOWN OF CASTLE ROCK DETAILS.
7. WATER WASTE IS NOT ALLOWED PER THE TOWN OF CASTLE ROCK'S WATER USE MANAGEMENT PLAN. THEREFORE, ALL NOZZLES ARE TO BE FINE TUNED/ADJUSTED SO THAT OVERSPRAY ONTO HARD SURFACES IS ELIMINATED
8. OVERHEAD IRRIGATION IN AREAS LESS THAN 10 FT. WIDTH OR INSTALLED ON SLOPES STEEPER THAN 3:1 WILL NOT BE APPROVED BY TOWN OF CASLTE ROCK INSPECTORS.
9. IRRIGATION SYSTEMS MUST BE DESIGNED TO OPERATE WITHIN THE TOWN OF CASTLE ROCK WATER USE MANAGEMENT PLAN. CURRENT COMMERCIAL HOURS OF OPERATION MUST FOLLOW THREE DAY FIXED SCHEDULE FROM 8:00 P.M. TO 8:00 A.M.
10. IRRIGATION EXEMPTION MUST BE OBTAINED FROM CASTLE ROCK WATER DEPT. IF IRRIGATING NATIVE SEED OR SOD ON A DAILY BASIS FOR ESTABLISHMENT DURING THE MONTHS OF MAY, JUNE, AUGUST AND SEPTEMBER. IRRIGATION EXEMPTIONS WILL NOT BE ISSUED FOR THE MONTH OF JULY.
11. IRRIGATION SYSTEM SHALL BE INSTALLED BY A TOWN OF CASTLE ROCK REGISTERED LANDSCAPE CONTRACT PROFESSIONAL.
12. A COPY OF THE STAMPED AND TOWN-APPROVED IRRIGATION PLANS IS TO BE AVAILABLE ON-SITE DURING IRRIGATION INSPECTIONS

INDEMNIFICATION AND ADHERENCE TO STANDARDS STATEMENTS

These plans have been reviewed by the Town of Castle Rock for concept only. The review does not imply responsibility by the reviewing department, the Town Engineer, or the Town of Castle Rock for accuracy and correctness of the calculations. Furthermore, the review does not imply that quantities of items on the plans are the final quantities required. The review shall not be construed for any reason as acceptance of financial responsibility by the Town for additional quantities of items shown that may be required during the construction phase.

All work shall be constructed in accordance with the Town of Castle Rock Municipal Code, Technical Manuals and/or other Town-approved applicable standards.

TOWN APPROVAL BLOCK

TOWN OF CASTLE ROCK APPROVAL
PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

Approved By:

Development Services *Date*

IRRIGATION DESIGN PREPARED BY DAVID ZICKERMAN TOCR #15-1032

Avocet IRRIGATION DESIGN
7114 W. JEFFERSON AVE. SUITE #200
LITTLETON, COLORADO 80127
303-986-2175
avocet@wispertel.net

REV. NO.	DESCRIPTION	DATE
1	CASTLE ROCK WATER RE-SUBMITTAL	05/28/2026

CASTLE ROCK LIMELIGHT, LLC

CASTLE ROCK LIMELIGHT RETAIL
IRRIGATION DETAILS

CASTLE ROCK, COLORADO 80108

PROJ NO:
DRAWN BY: DZ
DATE :

SHEET NUMBER
I.5
42 OF 44

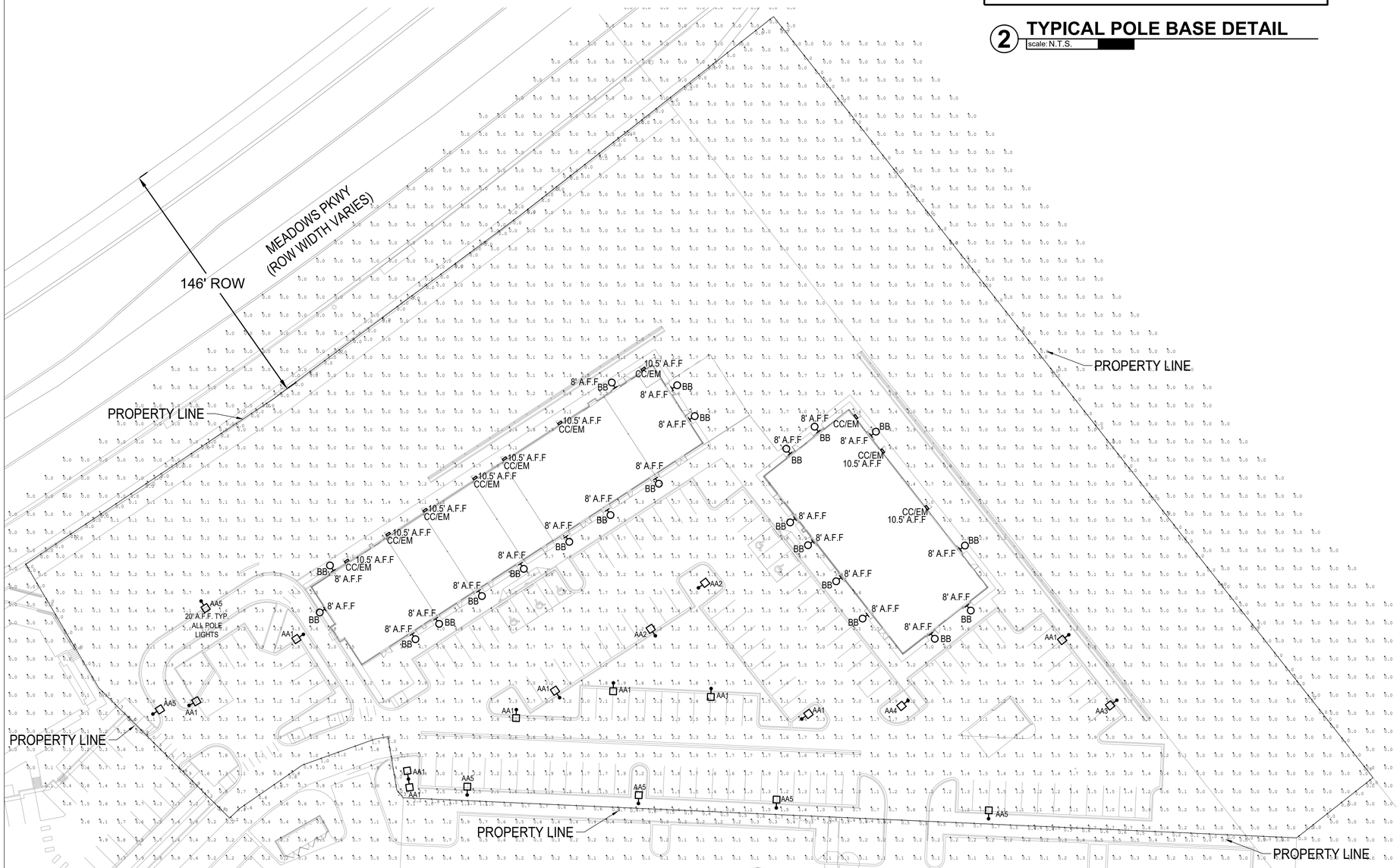
PROJECT NUMBER CD26-0008

Site Lumminary Summary Table

Luminaire ID/ Symbol	Manufacturer	Model	Catolog Number	Description	Full Cut Off (Y/N)	Distribution	Voltage	Dimming	Quantity	Mounting	Lamps: Mounting Height	Quantity	Type	Watts	Lumens	Color Temp/CRI	Light loss factor	Fixture Finish
AA1	COOPER	MCGRAW EDISON	GLEON-SA1B-740-U-T3R	POLE LIGHT	Y	TYPE III	UNV.	N/A	11	POLE	20'	1	LED	44	5571	4000K	1	BRONZE
AA2	COOPER	MCGRAW EDISON	GLEON-SA3A-740-U-T5WQ	POLE LIGHT	Y	TYPE V	UNV.	N/A	1	POLE	20'	1	LED	113	13881	4000K	1	BRONZE
AA3	COOPER	MCGRAW EDISON	GLEON-SA3B-740U-T3R-HSS	POLE LIGHT	Y	TYPE III	UNV.	N/A	1	POLE	20'	1	LED	124	12220	4000K	1	BRONZE
AA4	COOPER	MCGRAW EDISON	GLEON-SA2A-740-U-5WQ	POLE LIGHT	Y	TYPE V	UNV.	N/A	1	POLE	20'	1	LED	66	9147	4000K	1	BRONZE
AA5	COOPER	MCGRAW EDISON	GLEON-SA1B-740-U-T3R-HSS	POLE LIGHT	Y	TYPE III	UNV.	N/A	6	POLE	20'	1	LED	44	4190	4000K	1	BRONZE
BB	CURRENT	SPECTRA	SP1-FLR-Y3-32LED-3K-HHS-AWM1	WALL SCONCE	Y	TYPE III	UNV.	N/A	22	WALL	8'	1	LED	57	4311	4000K	1	BRONZE
CC	COOPER	MCGRAW EDISON	IST-SA1A-730-U-T3-HSS	WALL SCONCE	Y	TYPE III	UNV.	N/A	10	WALL	10.5'	1	LED	20.1	1868	4000K	1	BRONZE

Calculation Summary — List the Use Area / Zone Type

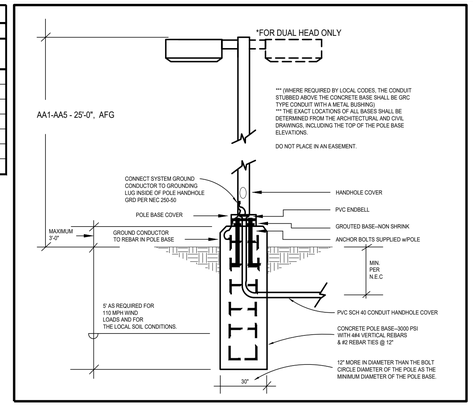
Label	Calc Type	Units	Average	Min	Max	AVG Min Max
OVERALL SITE	ILLUMINANCE	FC	1.14	0	5	N/A
PAST PROPERTY LINE	ILLUMINANCE	FC	0.16	0	3.2	N/A
PROPERTY LINE	ILLUMINANCE	FC	0.3	0	3	N/A
JOINT PARKING LOT	ILLUMINANCE	FC	2.3	1.1	4.9	4.45
PARKING LOT A	ILLUMINANCE	FC	1.72	1.1	3	2.73
PARKING LOT B	ILLUMINANCE	FC	1.97	0.2	4.6	23
PARKING LOT C	ILLUMINANCE	FC	1.97	1	3	3



1 PHOTOMETRIC PLAN

scale: 1"=30'-0"

NORTH



2 TYPICAL POLE BASE DETAIL

scale: N.T.S.

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p 303.985.3260
#24.181

ILLUMINATION PLAN STANDARD NOTES:

1. THE OBJECTIVE OF THE PARKING LOTS IN THIS SDP WAS TO PROVIDE SUFFICIENT LIGHTING IN ALL PARKING SPACES. THIS WAS ACCOMPLISHED BY PLACING POLE LIGHTS AND BUILDING LIGHTS TO ILLUMINATE THE PARKING AREAS. THE OBJECTIVE OF THE BUILDING MOUNTED LIGHTING WAS TO PROVIDE FACADE, BUILDING ENTRANCE LIGHTING, AND SUPPLEMENTAL PARKING LOT LIGHTING. THIS WAS ACCOMPLISHED BY CHOOSING THE RIGHT LIGHTS AND PLACING THE BUILDING LIGHTING THROUGHOUT BOTH BUILDINGS.
2. EXPECTED HOURS OF OPERATION OF THE BUILDINGS ARE FROM 7:00 AM TO 10:00 PM. ALL LIGHTING FIXTURES WILL BE RUN FROM WHEN THE PHOTOCELL TURNS THEM ON UNTIL 10:30 PM WHEN TURNED OFF BY TIME CLOCK. THEY WILL THEN TURN ON AT 6:30 AM BY TIME CLOCK UNTIL SHUTOFF BY PHOTOCELL. TIME CLOCK TO COMPLY WITH IECC C405.2.6.4.
3. ALL LIGHTS ALONG PROPERTY LINES HAVE HOUSE SIDE SHIELDING TO MINIMIZE LIGHT TRESPASS. ALL LIGHTS ARE AIMED AWAY FROM PROPERTY LINE EXCEPT AT SHARED PARKING LOT ENTRANCES AND EXITS.
4. FORWARD THROW LUMINARIES: THE FOLLOWING LIGHTING TYPES ARE PROHIBITED: FORWARD THROW LUMINARIES (TYPE IV DISTRIBUTION), POLE-MOUNTED LIGHTS AIMED AT A BUILDING'S FAÇADE, AND UNSHIELDED WALL PACKS ARE PROHIBITED.
5. MONUMENT SIGN TO BE SUBMITTED UNDER DIFFERENT PERMIT.

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

ROTH LANG ENGINEERING GROUP LLC
6855 SOUTH HAVANA STREET, SUITE 600
CENTENNIAL, CO 80112
PHONE: 303-841-9365

LOT 6A-1A-1, THE MEADOWS F17, AREA 4, AMD. NO. 19
PRIVATE IMPROVEMENT CONSTRUCTION PLANS
ILLUMINATION PLAN

PREPARED FOR:
WESTBRIDGE DEVELOPMENT
EDWARD FRANKE
PHONE: 312-925-5922

ISSUE DATE: 03/19/26		
DATE	REVISIONS	BY
07/14/26	CITY COMMENTS	CO

DESIGNED BY:	CO
DRAWN BY:	CO
JOB NUMBER:	240701

COLORADO REGISTERED CHRISTOPHER W. OLSEN 19221 PROFESSIONAL ENGINEER
07.14.2026

SHEET NUMBER:
EP100
43 of 44

TYPE 'AA1-AA5'

TYPE 'AA1-AA5'

Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

GLEON Galleon

Area / Site Luminaire

Interactive Menu

- Ordering Information page 2
- Product Specifications page 3
- Optical Distributions page 4
- Product Specifications page 4
- Energy and Performance Data page 4
- Control Options page 5

Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt
- Options to meet Buy American and other domestic preference requirements

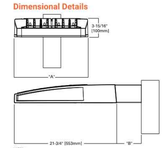
Product Certifications

3G VIB, IP66

Connected Systems

- WaveLinx
- Enlighted

Dimensional Details



Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length	"B" Q4 Arm Length	"B" OAL Length	"B" GMEA Length
1-4	15-1/2"	7"	10"	10-5/8"	--	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	--	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	10-5/16"	--
9-10	33-3/4"	7"	16"	--	10-5/16"	--

NOTES:
1. Refer to https://www.cooperlighting.com/global for notice qualification. Not all product variations are DLC qualified.
2. Not certified for 5000K CCT and warmer only.

McGraw-Edison

GLEON Galleon

Ordering Information

SAMPLE NUMBER: **GLEON-SA4C-740-U-T4FT-GM**

Product Family [1]	Light Engine: Configuration	Light Engine: Drive Current	Color Temperature	Voltage	Distribution	Mounting	Finish
SA Square Large **SB** Square Medium **SC** Square Small **TEA** SLEON Galleon, Tools Agreements Act Compliant [4]	**SA1** 1 Square **SA2** 2 Square **SA3** 3 Square **SA4** 4 Squares **SA5** 5 Squares **SA6** 6 Squares **SA8** 8 Squares	**A** 400mA **B** 530mA **C** 700mA **P** 1050mA	**727** 727K, 2200K **730** 730K, 3000K **735** 735K, 3500K **740** 740K, 4000K **750** 750K, 5000K **760** 760K, 6000K **815** 815K, 2700K **830** 830K, 3000K **AMB** Amber, 590nm [2,3]	**U** 120-277V **H** 347V **J** 480V **4** 277V **5** 347V **6** 480V [4]	**T1S** Type I Short **T2S** Type II Short **T2M** Type II Medium **T3S** Type III Short **T3M** Type III Medium **T3L** Type III Long **T4FT** Type IV Forward Throw **T4M** Type IV Medium **TFTM** Type IV Wide **BLC** Backlight Control **VLC** Very Low Cutoff **SL1** Sharp Cutoff Left **SR1** Sharp Cutoff Right **SL2** Sharp Cutoff Left Extended **SR2** Sharp Cutoff Right Extended **SLL** Sharp Cutoff Left Long **SRL** Sharp Cutoff Right Long **SLS** Sharp Cutoff Left Short **SRS** Sharp Cutoff Right Short **SQ** Square Cutoff **FTG** Forward Throw Greenhouse **FTGL** Forward Throw Greenhouse Left **FTGR** Forward Throw Greenhouse Right **FTGW** Forward Throw Greenhouse Wide **T5W** Type V Square Wide **T5N** Type V Narrow **T5VS** Type V Short Stubby **T5VW** Type V Wide **T6W** Type VI Wide **T7S** Type VII Short **T7M** Type VII Medium **T7L** Type VII Long **T8M** Type VIII Medium **T8L** Type VIII Long **T9** Type IX **T10** Type X **T4FTS** Type IV Forward Throw Short **BLS** Type V w/Spill Control **BLD** Type V w/Split Control **BLB** Type V w/Spill Control **BLT** Type V w/Trapezoidal **SLL-HT** Sharp Cutoff Left Long w/ Elevator Left **SLR-HT** Sharp Cutoff Left Long w/ Elevator Right **HR** Houlihan Rdwy Type I **FA1 Option** **T2W** Type II Square Wide **T2N** Type II **T2V** Type II Urban **T4W** Type IV **T4M** Type IV Wide	**(Blank)** Arm for Round or Square Pole **NA** Universal **NM** Mast Arm Adapter [5] **MA** Wall Mount **SAS** Short Arm (Standard Length) [6] **SMA** Quick Mount Arm (Extended Length) [6] **QML** Quick Mount Arm (Standard Length, Large) [6]	**AP** Grey **BZ** Bronze **BK** Black **DP** Dark Platinum Metallic **WH** White **SVLSS** Custom Color [7]

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately) [8]
SIM External 0-10V Dimming Leads [9,10] **P7** Photocontrol, 7-Pin Twist-Lock Receptacle **P7-** Photo Twist-Lock Receptacle, Voltage [11] **DM** Series 2NV UL 1449 Surge Protective Device **HA** -40°C Low Ambient **HA-CCT** High Ambient **HSS** Integrated House Side Shield [12] **SF** Single Fuse (120, 277, or 347V) [13] **DF** Double Fuse (208, 240, or 480V) [13] **SRMM** Shirt Mounting Shield, Metal [14] **SZT** Light Square Tilt Trunnion to Match Housing [15] **TGT** Tool-less Door Hardware **CC** Coastal Construction Finish [16] **SPD** Surge Protection [17] **SVG** Glass Assembly Kit Right **CE-CU** Marking [18] **DCR** Dusk to Dawn Operation, 5 Hours [19] **AMB10** +10hr Hours Dim, 5 Hours [19] **AMB15** +15hr Hours Dim, 7 Hours [19] **AMB20** +20hr Hours Dim, 9 Hours [19] **DALI** DALI Drivers	**BPC** Button Type Photocontrol **P7** Photocontrol, 7-Pin Receptacle **P7C** NEMA 7-Pin Photocontrol Receptacle [20] **CPED** Dimming Occupancy Sensor with Bluetooth Interface, 8' - 24' Mounting [21] **CPEDH** Dimming Occupancy Sensor with Bluetooth Interface, 25' - 40' Mounting [21] **MLC-LOW** Motion Sensor for ON/OFF Operation, 8' - 15' Mounting Height [22] **MLC-LOW-P7** Motion Sensor for ON/OFF Operation, 8' - 15' Mounting Height, 7-Pin [22] **MLC-LOW-DCR** Motion Sensor for ON/OFF Operation, 8' - 15' Mounting Height [22] **MLS-LOW-DCR** Low and Motion Sensor, 8' - 15' Mounting Height [22] **MSLOW-LSS** Motion Sensor for Dimming Operation, 8' - 20' Mounting Height [22] **MSLOW-LSS-P7** Motion Sensor for Dimming Operation, 8' - 20' Mounting Height, 7-Pin [22] **SFSAS** Wave Link, 24 Dimmy Dimming Motion and Daylight, Bluetooth Programmable, 7 - 15' Mounting [23] **SFSAS-P7** Wave Link, 24 Dimmy Dimming Motion and Daylight, Bluetooth Programmable, 7 - 15' Mounting [23] **SFSAS** WaveLink Pro, 24 Drive, Dimming Motion and Daylight, NAC Programmable, 7 - 40' Mounting [23] **SFSAS-P7** WaveLink Pro, 24 Drive, Dimming Motion and Daylight, NAC Programmable, 7 - 40' Mounting [23] **SMB-LSS** Enlighted Sensor, 8 - 15' Mounting Height [24] **SMB-LSE** Enlighted Sensor, 12 - 40' Mounting Height [24] **SMB10-LSS** Glimpse Occupancy Sensor 14' Mounting [25] **SMB10-LSE** Glimpse Occupancy Sensor 25' Mounting [25] **SMB10-LSE** Glimpse Occupancy Sensor 27 - 40' Mounting [25]	**GA/SA1813** Photocontrol Shorting Cap **MA1020-SB** Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1020-DB** Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1027-SS** 0@180° Tenon Adapter for 2-3/8" O.D. Tenon **MA1027-DS** 90@180° Tenon Adapter for 2-3/8" O.D. Tenon **MA1027-TS** 90@180° Tenon Adapter for 2-3/8" O.D. Tenon **MA1027-QS** 90@90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1035-SB** 0@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-DB** 0@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-SS** 0@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-DS** 0@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-TS** 90@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-QS** 90@90° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-SBS** 180° Tenon Adapter for 3-1/2" O.D. Tenon **FAM-100** Wireless Configuration Tool for Occupancy Sensor [8] **GLEON-MA** Quick Mount Arm Kit, Extended Length [6] **GLEON-MT1** Field Installed Mesh Top for 3-4 Light Squares **GLEON-MT2** Field Installed Mesh Top for 5-6 Light Squares **GLEON-MT3** Field Installed Mesh Top for 7-8 Light Squares **GLEON-MT4** Field Installed Mesh Top for 9-10 Light Squares **GLEON-QML** Quick Mount Arm Kit [6] **GLEON-QMEA** Quick Mount Extended Arm Kit [6] **LS-GEON-2PX** Wireless Node, 2-Port [26] **LS-GEON-2TX** Fiber Networking Device, Basic [26] **LS-GEON-2PX** Fiber Networking Device, Wireless [26] **WSLC-TP-15A** WaveLinx Outdoor Control Module [27]

NOTES:
1. Luminaire is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to Engineering Guidelines for additional information.
2. Energize Light Converters™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Override continuous flash light spec tested to meet SAE/IES/IESNA requirements.
4. Not available with HS options.
5. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
6. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
7. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
8. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
9. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
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27. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L LumenSafe Technology	**B** Obsidian Dome Camera **N** Hi-Res Dome Camera **J** Bullseye PTZ Camera	**0** Cellular, No SIM **A** Cellular, AT&T **V** Cellular, Verizon **S** Cellular, Sprint	**E** Ethernet, Rogers **W** Wi-Fi Networking w/ Direct Directional Antenna **X** Ethernet Networking

TYPE 'BB'

TYPE 'BB'

architectural area&lighting

SP1

DECORATIVE & POST TOP

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- Reliable, efficient operation
- Type 2, 3, 4, 5 distributions
- 2700K, 3000K, 3500K, 4000K, 5000K
- 0-10V dimming ready
- Integral surge protection
- IP65
- Four hood styles and four lens elements to configure a look of harmony with your architecture
- Symmetric or asymmetric distribution
- Post-top, wall mount arm, or pole mount arm options
- Adaptable appearance is perfect for contemporary or traditional installations
- Stainless steel studs

Spectra

Spectra Large

	Weight	EPA
SP1	42 lbs / 19.05 kg	1.08 - 1.13

SPECIFICATIONS

CONSTRUCTION

- Luminaire housings shall be cast aluminum, A356 alloy
- Outer lens shall be clear acrylic and sealed to the housing with a molded silicone gasket on the top and bottom
- Vertical struts shall be 316 stainless steel tubing
- All internal and external hardware shall be stainless steel
- Hoods shall have hemmed or beaded edges for added strength
- The underside of the hoods are painted to match the fixture color
- Luminaire finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance

OPTICAL MODULE

- Light emitting diode (LED) assembly shall be sealed to a die-cast anodized aluminum heat sink with an injection molded silicone rubber gasket and stainless steel bezel, IP66
- LED optics shall be injection molded PMMA acrylic and be mounted to a metal printed circuit board with a uniform conformal coating over the panel surface and electrical features

INSTALLATION

- The electrical assembly shall be mounted to a powered internal service tray and accessed by loosening two captive bolts and lifting off the top of the luminaire
- The pole mounted arm for a single fixture (SAP) and pole mounted arm for two fixtures at 180° (TAP) shall have a cast aluminum post top and fixture fitter with two round horizontal stainless steel bars.
- The post fitter shall slip over a 4"/100 mm pole and be secured with six stainless steel set screws
- The wall mounted arms for a SP1 fixture shall have a cast aluminum wall plate, cover and fixture fitter with two round horizontal stainless steel bars. The cover shall secure to the wall plate with four stainless steel set screws.

ELECTRICAL

- Luminaires shall accept 120 thru 277 50/60Hz input voltage have integral surge protection and wire leads for controls
- Drivers shall be UL recognized, have a minimum starting temperature of -30°C and have a 0-10v dimming interface with a dimming range of 10-100%
- Drivers shall have a power factor ≥ 90 and THD of ≤20% at full load with an inrush current maximum of <20.0 Amps maximum at 230VAC
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems
- Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV

ELECTRICAL (CONTINUED)

- LifeShield/TM shall be provided with all configurations for added protection in the event of abnormally excessively high ambient temperature conditions
- Surge protector shall be UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372 J

CONTROLS

- SCP shall have an integral surge protection device with a current rating of 10,000 Amps using the industry standard 8/20uSec wave and tune rating of 372 J
- Sensor not intended for use with additional photo-control, wireless control or dimming systems.

CERTIFICATIONS

- Luminaire shall be listed with ETL for outdoor, wet location use, UL 1598, UL 8750 and Canadian CSA Std. C22.2 no.250

WARRANTY

- 5 year warranty

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architectural area&lighting

SP1

DECORATIVE & POST TOP

DATE: LOCATION:
CATALOG #:

ORDERING GUIDE

CATALOG #:

Example: SP1-ANG-Y2-32LED-4K-550-BLS-SCP-SAP1

HOUSING

INDY

Luminaire	Hood Style	Color Temperature	Drive Current	Color
SP1 Spectra large scale. Style inset 4 4"/100mm pole	**ANG** Angled **FLT** Flared **STR** Straight **DBL** Double	**32LED-27K** 32 LED Warm White 2700K **32LED-3K** 32 LED Warm White 3000K **32LED-35K** 32 LED Warm White 3500K **32LED-4K** 32 LED Neutral White 4000K **32LED-5K** 32 LED Bright White 5000K	**550** 550mA, 57 watts	**BLS** Black Gloss Smooth **BLT** Black Matte Textured **DBS** Dark Bronze Gloss Smooth **DBT** Dark Bronze Matte Textured **GTT** Graphite Matte Textured **LGS** Light Grey Gloss Smooth **LGT** Light Grey Matte Textured **PSS** Platinum Silver Gloss Smooth **VGT** Verde Green Matte Textured **WHS** White Gloss Smooth **WHT** White Matte Textured **Color Option** **CC** Custom Color **CLA-A** [1] Clear Anodize

Options	Mounting (Optional)
ADS SP1 adapter. Designed to slip over a 3"/82.5mm O.D. pole **LDL** Lightly diffused lens **SF** Single Fuse (120, 277V) **DF** Double Fuse (208, 240V) **HHS** House Side Shield **PCA-C*** Photocontrol Adapter Contemporary	All arms regardless of hood diameter have a 4"/100mm distance from the edge of the fixture to the pole centerline or face of the wall. **Wall Mount** **AWM1** Wall Mounted Arm (Extension: 8.313"/211mm x 4.75"/120mm) **Pole Mount** **SAP1** Single Arm slips over a 4"/100mm OD Pole **TAP1** Twin Arm slips over a 4"/100mm OD Pole

Note:
* See Accessories for more information

Current Control Solutions — Accessories (Sold Separately)

SCP Sensor Control Programmable (view product page)

Pole accessory is available to include an occupancy detection for outdoor applications meeting California Title 24

For exterior information limited to these accessories please visit currentlighting.com. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

Note:
1 Recommended for harsh environment, salt spray 3,000 hours rated

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TYPE 'CC'

TYPE 'CC'

Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Interactive Menu

- Ordering Information page 2
- Product Specifications page 3
- Energy and Performance Data page 3
- Control Options page 4

Quick Facts

- 15 Optical Distributions
- Lumen packages range from 2,459 to 11,480 (20W - 95W)
- Efficacy up to 149 lumens per watt

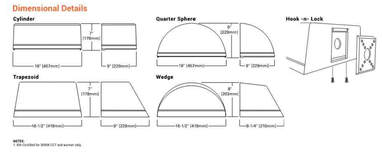
Product Certifications

IP66

Connected Systems

- WaveLinx
- Enlighted

Dimensional Details



NOTES:
1. Not certified for 5000K CCT and warmer only.

McGraw-Edison

Impact Elite LED

Ordering Information

SAMPLE NUMBER: **ISC-SA1F-740-U-T3-BZ**

Product Family [1]	Light Engine: Configuration	Light Engine: Drive Current	Color Temperature	Voltage	Distribution	Finish
ISC Impact Elite LED Small Cylinder **ISS** Impact Elite LED Small Quarter Sphere **IST** Impact Elite LED Small Trapezoid **ISW** Impact Elite LED Small Wedge **ISA-SA** Impact Elite LED Small Cylinder Buy American Act Compliant [4] **ISA-SS** Impact Elite LED Small Quarter Sphere Buy American Act Compliant [4] **ISA-ST** Impact Elite LED Small Trapezoid Buy American Act Compliant [4] **ISA-SW** Impact Elite LED Small Wedge Buy American Act Compliant [4] **TAA-SA** Impact Elite LED Small Cylinder Tools Agreements Act Compliant [4] **TAA-SS** Impact Elite LED Small Quarter Sphere Tools Agreements Act Compliant [4] **TAA-ST** Impact Elite LED Small Trapezoid Tools Agreements Act Compliant [4] **TAA-SW** Impact Elite LED Small Wedge Tools Agreements Act Compliant [4]	**1A1F** 1 Square **2A2F** 2 Square **P4** 4 Panel (24 LED) [2]	**A** 350mA **B** 530mA **C** 700mA **D** 1000mA **P** 1050mA	**727** 727K, 2200K **730** 730K, 3000K **735** 735K, 3500K **740** 740K, 4000K **750** 750K, 5000K **760** 760K, 6000K **815** 815K, 2700K **830** 830K, 3000K **AMB** 590nm, Amber [3]	**1B** 120-277V **H** 347V **J** 480V **T** 277-480V [4]	**T3** Type III **T4M** Type IV Medium **T4W** Type IV Wide **T5W** Type V Wide **BLC** Backlight Control **VLC** Very Low Cutoff **FTG** Forward Throw Greenhouse **FTGW** Forward Throw Greenhouse Wide **SQ** Square Cutoff **SR** Sharp Cutoff Right **SL** Sharp Cutoff Left **SRL** Sharp Cutoff Right Long **SLL** Sharp Cutoff Left Long **SRS** Sharp Cutoff Right Short **SLS** Sharp Cutoff Left Short **FA1 Option** **T2M** Type II Medium **T3M** Type III Medium **T3L** Type III Long **T4W** Type IV Wide	**AP** Grey **BZ** Bronze **BK** Black **DP** Dark Platinum Metallic **WH** White **SVLSS** Custom Color [5]

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately) [6]
R Primary Surge Protection (4kV) Only [7] **DM** Series 2NV UL 1449 Surge Protective Device [8] **CBP** Battery Pack with Back Box, Cold Weather [9,10] **CBP-DBS** Battery Pack with Back Box, Cold Weather, Dark Bronze [9,10] **HSS** Integrated House Side Shield [11] **SCLD** Lighted Door [12,13] **SRMM** Shirt Mounting Shield, Metal [14] **SZT** Light Square Tilt Trunnion to Match Housing [15] **SVLSS** Custom Color Plate Painted to Match Housing **TGT** Tool-less Door Hardware **CC** Coastal Construction Finish [16] **SPD** Surge Protection [17] **SVG** Glass Assembly Kit Right **CE-CU** Marking [18] **DCR** Dusk to Dawn Operation, 5 Hours [19] **AMB10** +10hr Hours Dim, 5 Hours, 10% [19] **AMB15** +15hr Hours Dim, 7 Hours, 10% [19] **AMB20** +20hr Hours Dim, 9 Hours, 10% [19] **DALI** DALI Drivers	**BPC** Button Type Photocontrol **P7** Photocontrol, 7-Pin Receptacle [20] **P7C** NEMA 7-Pin Photocontrol Receptacle [20] **CPED** Dimming Occupancy Sensor with Bluetooth Interface, 8' - 24' Mounting [21] **CPEDH** Dimming Occupancy Sensor with Bluetooth Interface, 25' - 40' Mounting [21] **MLC-LOW** Motion Sensor for ON/OFF Operation, 8' - 15' Mounting Height [22] **MLC-LOW-P7** Motion Sensor for ON/OFF Operation, 8' - 15' Mounting Height, 7-Pin [22] **MLS-LOW-DCR** Low and Motion Sensor, 8' - 15' Mounting Height [22] **MSLOW-LSS** Motion Sensor for Dimming Operation, 8' - 20' Mounting Height [22] **MSLOW-LSS-P7** Motion Sensor for Dimming Operation, 8' - 20' Mounting Height, 7-Pin [22] **SFSAS** Wave Link, 24 Dimmy Dimming Motion and Daylight, Bluetooth Programmable, 7 - 15' Mounting [23] **SFSAS-P7** Wave Link, 24 Dimmy Dimming Motion and Daylight, Bluetooth Programmable, 7-Pin, 7 - 15' Mounting [23] **SFSAS** WaveLink Pro, 24 Drive, Dimming Motion and Daylight, NAC Programmable, 7 - 40' Mounting [23] **SFSAS-P7** WaveLink Pro, 24 Drive, Dimming Motion and Daylight, NAC Programmable, 7-Pin, 7 - 40' Mounting [23]	**MA1035-SB** 0@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-DB** 0@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-SS** 0@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-DS** 0@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-TS** 90@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-QS** 90@90° Tenon Adapter for 3-1/2" O.D. Tenon **MA1035-SBS** 180° Tenon Adapter for 3-1/2" O.D. Tenon **FAM-100** Wireless Configuration Tool for Occupancy Sensor [6] **GLEON-MT1** Field Installed Mesh Top for 3-4 Light Squares **GLEON-MT2** Field Installed Mesh Top for 5-6 Light Squares **GLEON-MT3** Field Installed Mesh Top for 7-8 Light Squares **GLEON-MT4** Field Installed Mesh Top for 9-10 Light Squares **GLEON-QML** Quick Mount Arm Kit [7] **GLEON-QMEA** Quick Mount Extended Arm Kit [7] **LS-GEON-2PX** Wireless Node, 2-Port [24] **LS-GEON-2TX** Fiber Networking Device, Basic [24] **LS-GEON-2PX** Fiber Networking Device, Wireless [24] **WSLC-TP-15A** WaveLinx Outdoor Control Module [25]

NOTES:
1. Energize Light Converters™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Override continuous flash light spec tested to meet SAE/IES/IESNA requirements.
3. Not available with HS options.
4. Not compatible with motion/photocontrol sensor and standard quick mount arm (QMEA).
5. Requires the use of an external step down transformer when combined with sensor options. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
6. 4000K mount white fine texture only. Per NEC, roof top and 1/2" wall unpowered systems, impedance grounded systems, ungrounded systems and solidly grounded wye systems up to Three Phase, Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems.
7. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected. Requires 120 volt (1R) or 277 volt (4R) mounting. Refer to www.designlights.org Qualified Products List under Family Models for details.
8. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
9. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
10. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
11. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
12. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
13. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
14. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
15. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
16. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
17. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
18. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
19. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
20. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
21. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
22. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
23. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.
24. Not available with HS options. Not available with SMB, SMC, MLC-LOW, MLS-LOW, SFC, SFA or RFA options. Available in CCT/CTG only.
25. Not for use with SRM, SMB, SMC or RM options. Arrives from plant in shelf when HSS is selected.

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L LumenSafe Technology	**B** Obsidian Dome Camera **N** Hi-Res Dome Camera **J** Bullseye PTZ Camera	**0** Cellular, No SIM **A** Cellular, AT&T **V** Cellular, Verizon **S** Cellular, Sprint	**E** Ethernet, Rogers **W** Wi-Fi Networking w/ Direct Directional Antenna **X** Ethernet Networking

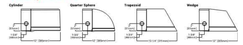
Cylinder

Quarter Sphere

Trapezoid

Wedge

Thruway Back Box



Product Specifications

Construction
- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access
- IK10 impact rated

Optics
- High-efficiency injection-molded AccuLED optics technology
- 15 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical
- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Mounting
- Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment
- Two black-oxide coated 4dim set screws concealed but accessible from below

Finish
- Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

NOTICE:
ALL LIGHT SOURCES ARE
FULL CUT-OFF

TOWN OF CASTLE ROCK APPROVAL

PLANS ARE HEREBY APPROVED FOR ONE YEAR FROM DATE OF DEVELOPMENT SERVICES APPROVAL

APPROVED BY:

DEVELOPMENT SERVICES DATE

JCAA
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
p