

MIXED-USE DEVELOPMENT

263 SAWATCH ROAD // PARCEL NUMBER 1939-333-45-001

LOT 2, 700 CHAMBERS SUBDIVISION, SECTION 33, TOWNSHIP 4 SOUTH, RANGE 84 WEST OF
THE 6TH PRINCIPAL MERIDIAN, TOWN OF EAGLE, COUNTY OF EAGLE, STATE OF COLORADO

LEGEND

EXISTING	PROPOSED
PROPERTY LINE	PROPERTY LINE
RIGHT-OF-WAY LINE	RIGHT-OF-WAY LINE
SECTION LINE	SECTION LINE
EASEMENT	EASEMENT
RETAINING WALL	RETAINING WALL
CURB & GUTTER	CURB & GUTTER
ASPHALT	ASPHALT
CONCRETE/SIDEWALK	CONCRETE/SIDEWALK
HANDICAP RAMPS	HANDICAP RAMPS
CONTOURS	CONTOURS
UTILITY CROSSING	UTILITY CROSSING
STORM SEWER	STORM SEWER
STORM MANHOLE	STORM MANHOLE
ROOF DRAIN	ROOF DRAIN
STORM INLET	STORM INLET
FLARED END SECTION	FLARED END SECTION
SANITARY SEWER	SANITARY SEWER
SANITARY MANHOLE	SANITARY MANHOLE
CLEAN OUT	CLEAN OUT
WATER LINE	WATER LINE
WATER VALVE	WATER VALVE
FIRE HYDRANT	FIRE HYDRANT
WATER METER	WATER METER
IRRIGATION LINE	IRRIGATION LINE
IRRIGATION CONTROL	IRRIGATION CONTROL
OVERHEAD ELECTRIC	OVERHEAD ELECTRIC
ELECTRIC LINE	ELECTRIC LINE
LIGHT POLE	LIGHT POLE
POWER POLE	POWER POLE
ELECTRIC METER	ELECTRIC METER
TELEPHONE LINE	TELEPHONE LINE
TELEPHONE PEDESTAL	TELEPHONE PEDESTAL
CABLE TV	CABLE TV
SIGN	SIGN
DIRECTION OF FLOW	DIRECTION OF FLOW
GRADING ARROW	GRADING ARROW
GAS LINE	GAS LINE
DESCRIPTIONS	DESCRIPTIONS
SPOT ELEVATIONS	SPOT ELEVATIONS



VICINITY MAP

SCALE: 1"=100'



CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS.
THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM
THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE
CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE SIZE,
MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES
PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

BASIS OF BEARING AND BENCHMARK:

BASIS OF BEARING: BEARINGS ARE BASED UPON AN ASSUMED BEARING OF S30°52'00"E
OF THE WESTERLY LIMIT OF LOT 1.

BENCHMARK: SEWER MANHOLE EC2 IN CHAMBERS AVENUE NEAR THE NORTHWEST CORNER
OF LOT 1.
RIM ELEV. = 6621.6'
INVERT ELEV. = 6614.6'

EXISTING TOPOGRAPHY SHOWN WAS TAKEN FROM THE DESIGN SURVEY COMPLETED BY
GORE RANGE SURVEYING AND RECEIVED 21 APRIL 2022.

SUBMITTALS / REVISIONS

1	SCHEMATIC DESIGN (NOT FOR CONSTRUCTION)	4/29/2023
2	DRAWINGS FOR DEVELOPMENT PERMIT (NO CONST.)	5/24/2023
3	GRADING PERMIT RESUBMITTAL	5/24/2023
4	DEVELOPMENT PERMIT RESUBMITTAL (NO CONST.)	8/22/2023

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C15.1	Details - Building Services

*NOTE: DRAWING SET FOR GRADING PERMIT ASSOCIATED WITH
POND IMPROVEMENTS IS ABBREVIATED RELATIVE TO THE SET
FOR THE ENTIRE DEVELOPMENT PROJECT ON LOT 2.*

MIXED-USE DEVELOPMENT
263 SAWATCH DRIVE
LOT 2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

YARNELL CONSULTING &
CIVIL DESIGN, LLC
P.O. BOX 3901 EAGLE, COLORADO 81631
(970) 323-7008

THE DESIGNS SHOWN HEREIN INCLUDING
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EXPRESS WRITTEN PERMISSION FROM
YARNELL CONSULTING & CIVIL DESIGN, LLC.

SHEET TITLE
COVER SHEET
SHEET NO.
C1.0

PROJECT CONTACTS		UTILITY CONTACTS		
OWNER	JURISDICTION	ARCHITECT	CIVIL ENGINEER	LAND SURVEYOR
SAWATCH 263 RD, LLC P.O. BOX 2322 AVON, COLORADO 81620 970-376-6111	TOWN OF EAGLE 200 BROADWAY EAGLE, COLORADO 81631 970-445-0847	MARTIN MANLEY ARCHITECTS P.O. BOX 1587 EAGLE, COLORADO 81631 970-328-1299	YARNELL CONSULTING & CIVIL DESIGN, LLC P.O. BOX 3901 EAGLE, COLORADO 81631-3901 970-323-7008	GORE RANGE SURVEYING 5129 LONGSUN LANE AVON, COLORADO 81620 970-479-8698
DAVE DANTAS & RICK PATRIACCA	DENNIS WIKE	JEFF MANLEY	JUSTIN YARNELL	SAM ECKER

GENERAL NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF EAGLE "PUBLIC WORKS MANUAL." ITEMS NOT COVERED WITHIN SAID MANUAL SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND M-STANDARDS.
- ALL GRADING, WATER, STORM SEWER, AND SANITARY SEWER CONSTRUCTION SHALL BE SUBJECT TO TOWN OF EAGLE INSPECTION.
- THE CONTRACTOR SHALL HAVE ONE [1] SIGNED COPY OF PLANS APPROVED BY THE TOWN OF EAGLE AND ONE [1] COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CIVIL ENGINEER-OF-RECORD TEST REPORTS, SHOP DRAWINGS, CUT SHEETS, AND ANY OTHER DOCUMENTATION NECESSARY TO CLEARLY INDICATE THE MATERIALS AND COMPONENTS SLATED FOR USE ON THE PROJECT.
- CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER, AND THE TOWN OF EAGLE PUBLIC WORKS INSPECTOR 48 HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE TOWN OF EAGLE PUBLIC WORKS INSPECTOR 24 HOURS PRIOR TO START OF WORK.
- ALL RANGE POINTS, TIES, BENCHMARKS, OR OTHER SURVEY CONTROL POINTS, WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION, MUST BE PRESERVED. ANYTHING DAMAGED OR DESTROYED MUST BE RESTORED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF COLORADO, AT NO COST TO THE OWNER.
- ALL ELEVATIONS ARE ON UNITED STATES GEOLOGICAL SURVEY (USGS) VERTICAL DATUM -- NOT ARCHITECTURAL. SPOT ELEVATIONS ARE AROUND ELEVATION 6600. THEREFORE, SPOT ELEVATION 16.25 CORRESPONDS TO USGS ELEVATION 6616.25 WHILE SPOT ELEVATION 95.38 CORRESPONDS TO USGS ELEVATION 6595.38.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING, BUT NOT LIMITED TO, SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, TRENCH EXCAVATION AND SHORING, TRAFFIC CONTROL, AND SECURITY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE TOWN/OWNER/ENGINEER CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION." THESE REGULATIONS ARE DESCRIBED IN SUBPART P, PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WIDENING OR SLOUGHING OF THE TRENCH WHICH MAY BE DEDIMENTAL TO HUMAN SAFETY, TO THE PIPE BEING PLACED, OR TO ANY EXISTING SITE IMPROVEMENTS OR STRUCTURES. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR THE SCOPE OF WORK.
- AT LEAST FIVE [5] WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE TOWN OF EAGLE ENGINEER. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A CERTIFIED TRAFFIC CONTROL SUPERVISOR AND SHALL BE IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). NO WORK SHALL BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES HAVE BEEN PLACED IN ACCORDANCE WITH THE PLAN. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THE TRAFFIC CONTROL DEVICES FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL THE ROADWAY HAS BEEN OPENED AND THE PERMANENT TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED.
- ALL TRENCH BACKFILL AND SUBGRADE PREPARATION SHALL BE TESTED TO ENSURE COMPLIANCE WITH TOWN OF EAGLE STANDARDS AND SHALL BE TESTED AT TOWN OF EAGLE-REQUIRED FREQUENCIES BY A TOWN OF EAGLE-APPROVED PRIVATE SOILS TESTING FIRM. TEST RESULTS SHALL BE SUBMITTED TO, REVIEWED, AND APPROVED BY, THE TOWN OF EAGLE PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLING BASE COURSE, ASPHALT OR CONCRETE ON PREPARED SUBGRADE. ALL BASE COURSE DENSITY SHALL ALSO BE TESTED BY THE PRIVATE SOILS FIRM AT TOWN OF EAGLE-REQUIRED FREQUENCIES TO ENSURE COMPLIANCE WITH TOWN OF EAGLE REQUIREMENTS. BASE COURSE TEST RESULTS SHALL ALSO BE APPROVED BY THE TOWN OF EAGLE PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLING PAVEMENT. ALL CONCRETE AND ASPHALT PLACED SHALL BE TESTED IN ACCORDANCE WITH TOWN OF EAGLE MINIMUM MATERIALS TESTING STANDARDS. TEST RESULTS SHALL BE REVIEWED AND APPROVED BY THE TOWN OF EAGLE PUBLIC WORKS DEPARTMENT PRIOR TO INITIATION OF THE REQUIRED TWO-YEAR WARRANTY PERIOD.
- CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL HEALTH AND SAFETY RULES AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED. REPAIR OF DAMAGED UTILITIES SHALL BE AT THE CONTRACTOR'S EXPENSE, INCLUDING BUT NOT LIMITED TO UNKNOWN UNDERGROUND UTILITIES.
- EXISTING FENCES, TREES, SIDEWALKS, CURB/GUTTER, LANDSCAPING, STRUCTURES, AND IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR RESTORED IN LIKE KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THESE PLANS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING REASONABLE ACCESS TO AND FROM ALL OF THE ADJACENT PROPERTIES THROUGHOUT THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE REQUIRED TO MEET (INDIVIDUALLY OR COLLECTIVELY) WITH ALL ADJACENT PROPERTY OWNERS WHOSE DRIVEWAY ACCESS WILL BE AFFECTED BY THE WORK. AS CONSTRUCTION CONDITIONS CHANGE AND THE WORK PROGRESSES, THE CONTRACTOR SHALL BE REQUIRED TO PERIODICALLY UPDATE THOSE PROPERTY OWNERS SO THAT THEY ARE KEPT INFORMED ABOUT THEIR ACCESS.
- OWNER/DEVELOPER SHALL OBTAIN A STORMWATER CONSTRUCTION PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, PRIOR TO CLEARING, GRADING, OR EXCAVATING A SITE OF ONE [1] ACRE OR MORE, OR LESS THAN ONE [1] ACRE BUT PART OF A LARGER DEVELOPMENT. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE TOWN OF EAGLE PUBLIC WORKS DEPARTMENT PRIOR TO THE START OF CLEARING, GRADING, OR EXCAVATING OF THE SITE. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STORM RUNOFF AND ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED, AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. NO CONCRETE SHALL BE PLACED WHERE GROUNDWATER IS VISIBLE OR UNTIL THE GROUNDWATER TABLE HAS BEEN LOWERED BELOW THE PROPOSED IMPROVEMENTS. ANY UNSTABLE AREAS, AS A RESULT OF GROUNDWATER, ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE CONTRACTOR, THE TOWN OF EAGLE PUBLIC WORKS INSPECTOR, AND THE GEOTECHNICAL ENGINEER AT THE TIME OF OCCURRENCE.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING UTILITIES (STORM SEWER, SANITARY, WATER, NATURAL GAS, ELECTRIC, TELEPHONE, FIBER OPTICS, CABLE TELEVISION, ETC.) AND FINISHED GRADES AT THE POINTS OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES TO COORDINATE SCHEDULES.

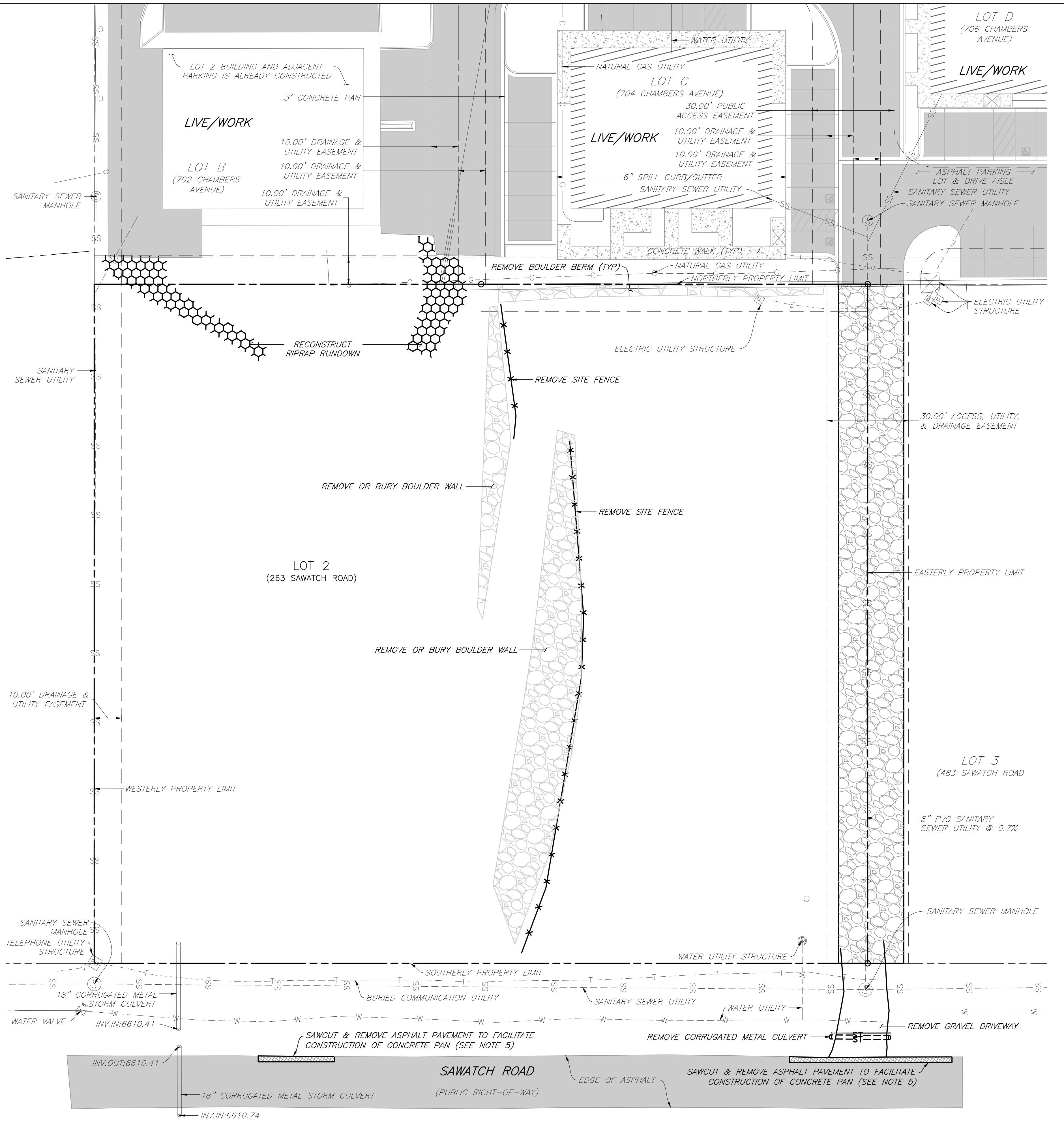
ABBREVIATIONS:

APPROX	APPROXIMATE
ARCH	ARCHITECT
ASSM	ASSEMBLY
BLDG	BUILDING
BM	BENCHMARK
BOC	BACK OF CURB
BOW	BACK OF WALK
CIP	CAST IRON PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTOUR
COR	CORNER
DEMO	DEMOLITION
DIA OR Ø	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
E	ELECTRICAL LINE
EL	ELEVATION
ELEC	ELECTRICAL
ENG	ENGINEER
ESMT	EASEMENT
EXIST	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FGW	FINISHED GRADE AT WALL
FHY	FIRE HYDRANT
FL	FLOW LINE
FT	FOOT
GB	GRADE BREAK
GR	GRATE (AREA OR VALLEY INLETS)
GV	GATE VALVE
HERCP	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORZ	HORIZONTAL
HP	HIGH POINT
INV.	INVERT
LF	LINEAL FEET
LP	LOW POINT
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRICAL
PC	POINT OF HORIZONTAL TANGENCY
PCC	POINT OF COMPOUND CURVE
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PIV	POINT OF HORIZONTAL INTERSECTION
PIV	PRESSURE INDICATOR VALVE
PL	PROPERTY LINE
PLBG	PLUMBING
POC	POINT ON CURVE
POT	POINT OF TANGENT
PRC	POINT OF REVERSE CURVE
PRKG	PARKING
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
ROW	RIGHT OF WAY
SSWR	SANITARY SEWER
SEC	SECTION
SF	SQUARE FOOT
STA	STATION
STRM	STORM SEWER
STRUC	STRUCTURAL
SW	SIDEWALK
SY	SQUARE YARD
TELE	TELEPHONE
TB	THRUST BLOCK
TEMP	TEMPORARY
TOC	TOP OF CURB
TOW ₁	TOP OF WALL ₁
UD	UNDER DRAIN
UG	UNDERGROUND
VERT	VERTICAL
VC	VERTICAL CURVE
W	WATER LINE

DESIGN BY:	J. YARNELL	NO.:	ISSUE / REVISION	DATE	NAME	THE DESIGNS SHOWN HEREIN INCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS THEREOF ARE PROPRIETARY & CANNOT BE COPIED, DUPLICATED, OR COMMERCIALIZED, EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM YARNELL CONSULTING & CIVIL DESIGN, LLC.
DRAWN BY:	J. YARNELL	1.	SCHEMATIC DESIGN (NO CONST.)	4/29/23	JY	
REVIEWED BY:	J. YARNELL	2.	DEVELOPMENT PERMIT SUBMISSION	5/24/23	JY	
		3.	GRADE PERMIT SUBMITTAL	5/24/23	JY	
PROJECT NO.:	19.022	4.	DEVELOPMENT PERMIT RESUBMITTAL	8/22/23	JY	
DATE:	8/23/2023	5.				

SHEET TITLE
GENERAL NOTES &
ABBREVIATIONS

SHEET NO.
C1.1



NOTES:

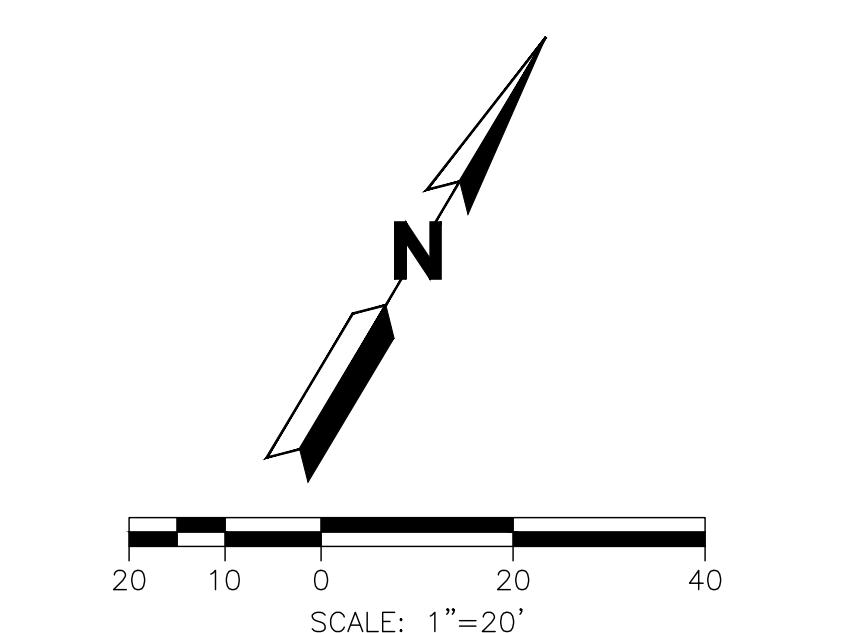
1. ITEMS NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
 2. FOR TREE REMOVAL, RE: LANDSCAPE.
 3. REMOVE VEGETATION, THEN STRIP AND STOCKPILE TOPSOIL WITHIN PROPERTY LIMITS BUT OUTSIDE THE DRIPLINES OF ALL TREES SLATED TO REMAIN.
 4. INSTALL TREE PROTECTION AND PERIMETER CONTROL BEST MANAGEMENT PRACTICES PRIOR TO COMMENCING DEMOLITION/CLEARING ACTIVITIES.
 5. ALL ASPHALT SLATED FOR REMOVAL SHALL BE SAWCUT ALONG A NEAT LINE -- RIPPING ASPHALT WITH AN EXCAVATOR IS NOT ACCEPTABLE. SAWCUTS PARALLEL TO THE PATH OF VEHICULAR TRAVEL SHALL BE OUTSIDE THE WHEEL TRACKS -- EITHER CENTERED IN THE TRAVEL LANE OR ALONG THE EDGE.
 6. ALL CONCRETE SLATED FOR REMOVAL SHALL BE SAWCUT ALONG THE NEAREST EXISTING JOINT.

ED-USE DEVELOPMENT
263 SAWATCH DRIVE
2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

YARNELL CONSULTING &
CIVIL DESIGN, LLC
P.O. BOX 3901, EAGLE, COLORADO 81631

(970) 323-7008

114



ALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR

DO NOT DIG, GRADE OR EXCAVATE FOR WORKING OF UNDERGROUND MEMBER UTILITIES

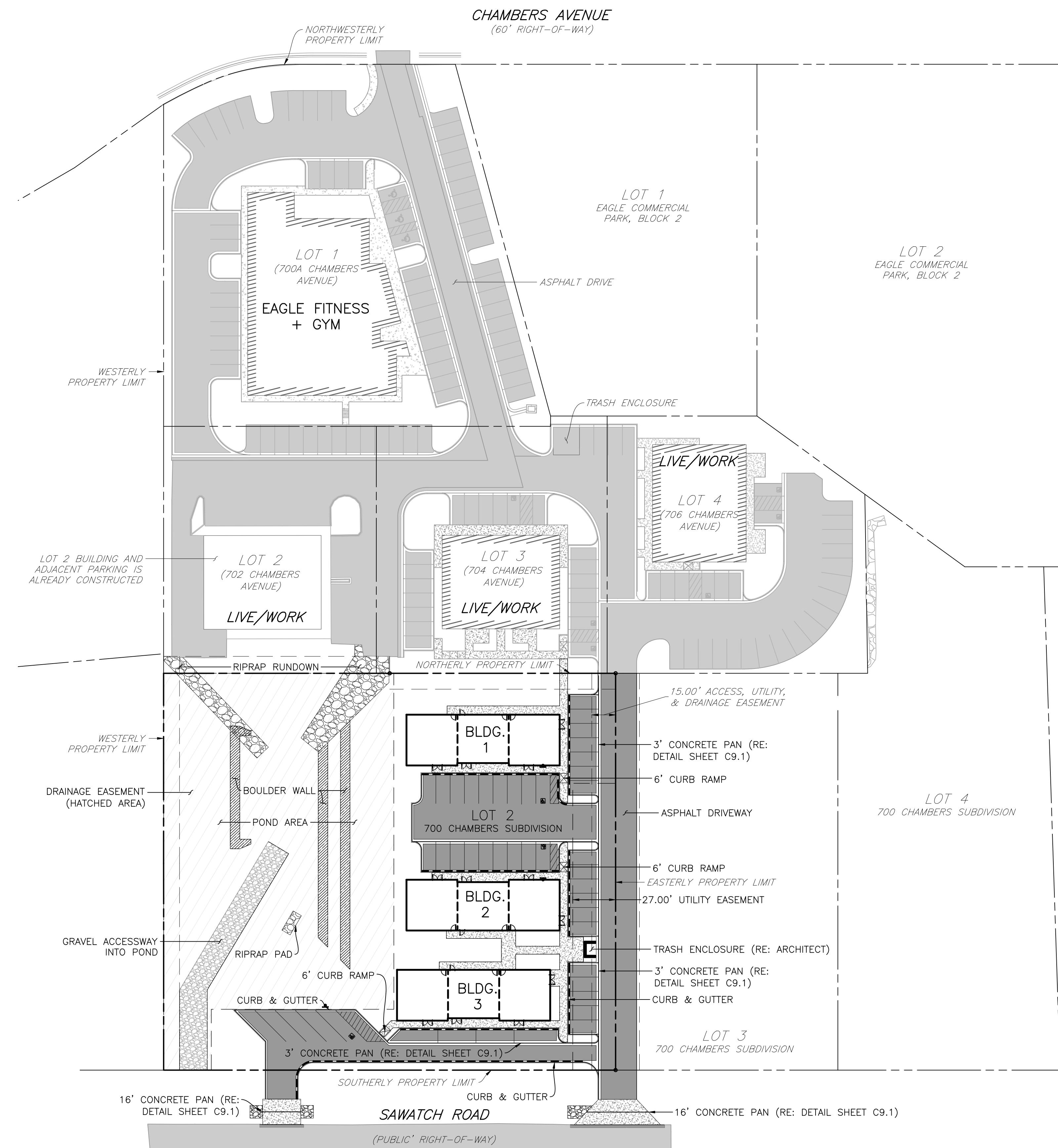
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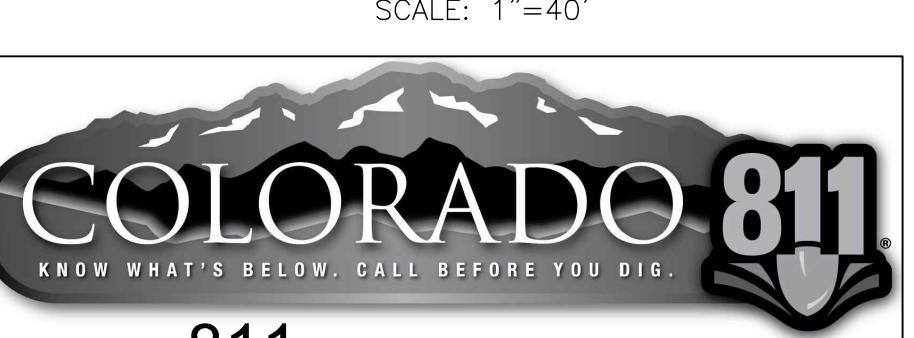
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HEET TITLE
EXISTING
CONDITIONS &
DEMO PLAN

HEET NO.
C2



CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES



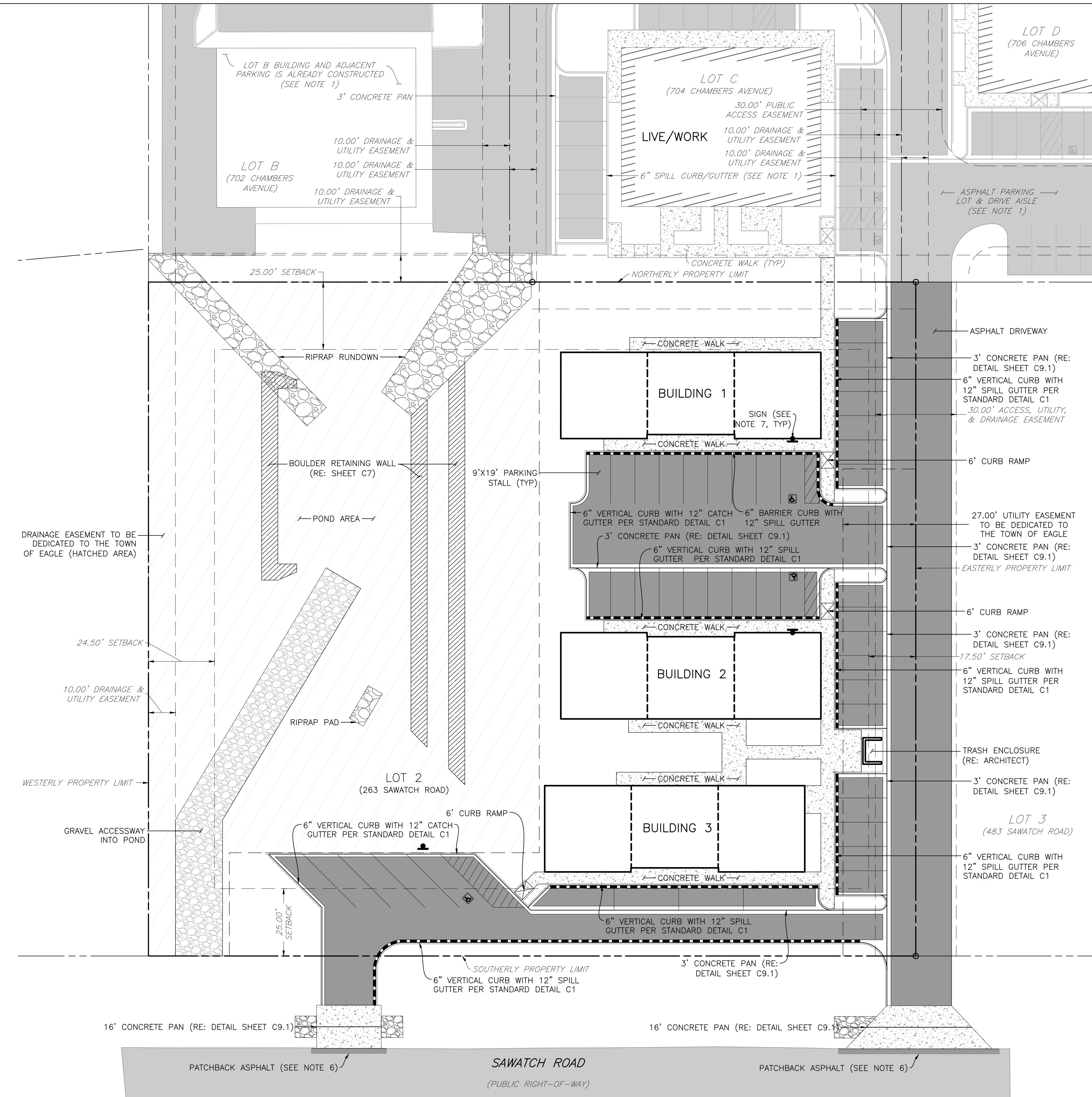
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DATE:	4.	DEVELOPMENT PERMIT RESUBMITTAL	8/22/23	J.Y
	5.			J.Y

SHEET TITLE	SUBDIVISION SITE PLAN
SHEET NO.	C3.0



NOTES:

1. IMPROVEMENTS ON LOTS 1, 3, AND 4 ON THE 700 CHAMBERS SUBDIVISION WAS COMPLETED IN 2018 AND IS SHOWN NOW AS "EXISTING" FROM ORIGINAL DESIGN FILES BUT HAS NOT BEEN RE-SURVEYED.
 2. BUILDING LOCATIONS AND EXTENTS WERE PREPARED BY MARTIN | MANLEY ARCHITECTS AND RECEIVED ELECTRONICALLY ON 14 AUGUST 2023. ANY SUBSEQUENT UPDATES ARE NOT REFLECTED IN THESE DRAWINGS.
 3. FOR ALL LANDSCAPING DETAILS AND INFORMATION, RE: ARCHITECT.
 4. FOR DRIVEWAY, AND WALKWAY PAVEMENT SECTIONS, RE: GEOTECHNICAL ENGINEER.
 5. ALL WORK SHALL BE CONSTRAINED TO THE LIMITS OF DISTURBANCE.
 6. ASPHALT PATCHBACK PER THE TOWN OF EAGLE "PUBLIC WORKS MANUAL."
 7. THE THREE PROPOSED SIGNS ON THE PROJECT ARE SLATED TO DESIGNATED ACCESSIBLE PARKING STALLS. THE SIGNS ADJACENT TO BUILDINGS 1 AND 2 SHOULD BE MOUNTED TO THE BUILDING ITSELF. THE SIGN ADJACENT TO BUILDING 3 SHOULD BE DESIGNATED AS VAN ACCESSIBLE AND MOUNTED ON A STEEL "U" CHANNEL POST.

CIVIL DESIGN, LLC
P.O. BOX 3901, EAGLE, COLORADO 81631

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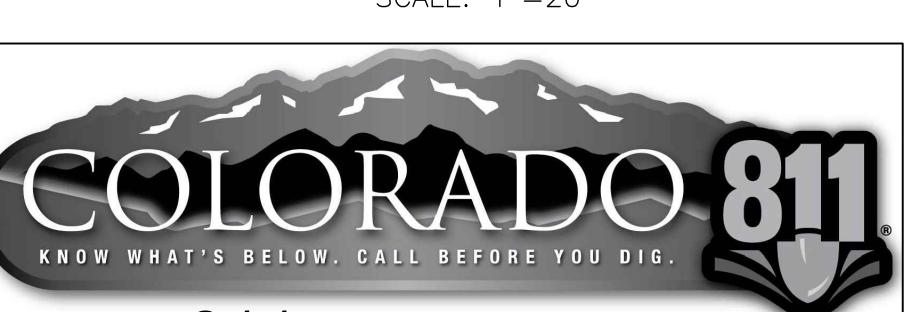
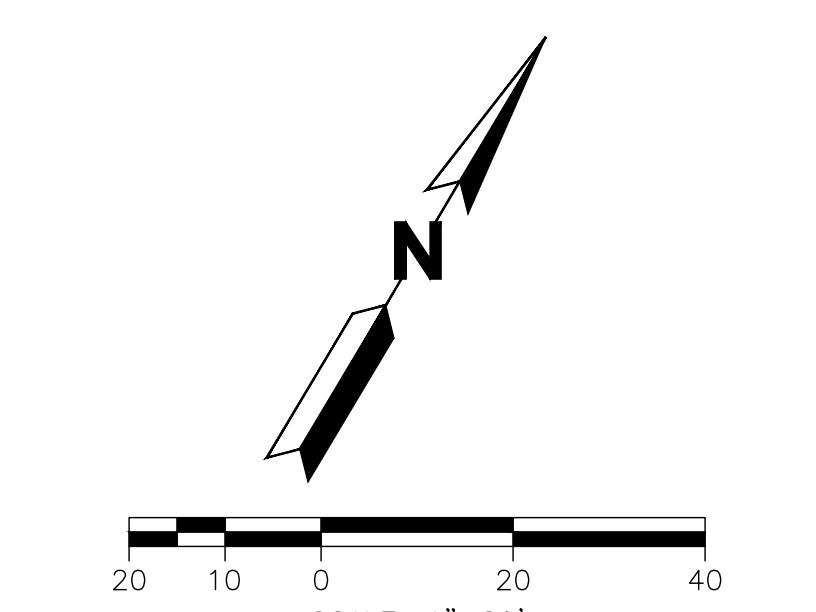
11 of 11

200 SAMWATOU DRIE

BSC SIB DIVISION

3 SUBDIVISION
.ORADO

111



CALL **811** 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKINGS OF UNDERGROUND LUMBER, WELDING, UTILITY

MARKING OF UNDERGROUND MEMBER UTILITIES

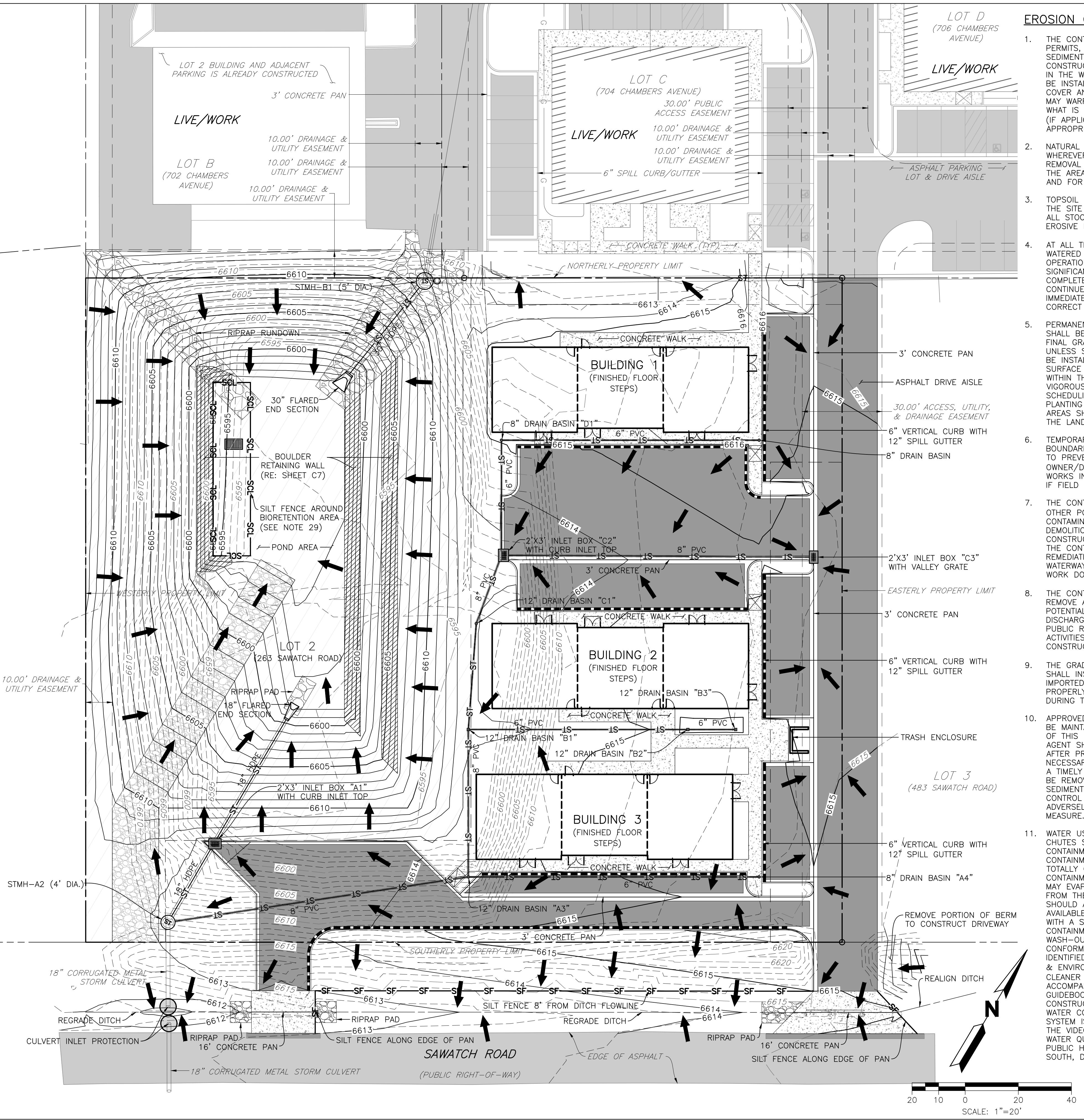
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DRAWN BY:	J. YARNELL	1. SCHEMATIC DESIGN (NO CONSL.)	4/29/23	JJY
REVIEWED BY:	J. YARNELL	2. DEVELOPMENT PERMIT SUBMISSION	5/24/23	JJY
		3. GRADING PERMIT SUBMITTAL	5/24/23	JJY
PROJECT NO.:	19.022	4. DEVELOPMENT PERMIT RESUBMITTAL	8/22/23	JJY
DATE:	8/23/2023	5.		JJY

SET TITLE
SITE PLAN

SET NO.
C3.1



EROSION CONTROL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, AND IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION TO PREVENT DAMAGING FLOWS ON THE SITE AND IN THE WATERSHED BELOW THE SITE. CONTROL SYSTEMS SHALL BE INSTALLED PRIOR TO STRIPPING OF NATIVE VEGETATIVE COVER AND AS GRADING PROGRESSES. CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS AND WITHIN THE NARRATIVE (IF APPLICABLE). THE APPROACH MAY BE MODIFIED WITH APPROPRIATE APPROVALS AS FIELD CONDITIONS WARRANT.

NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATION AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.

TOPSOIL SHALL BE STOCKPILED TO THE EXTENT PRACTICAL ON THE SITE FOR USE ON AREAS TO BE REVEGETATED. ANY AND ALL STOCKPILES SHALL BE LOCATED AND PROTECTED FROM EROSION ELEMENTS.

AT ALL TIMES, THE PROPERTY SHALL BE MAINTAINED AND/OR WATERED TO PREVENT WIND-CAUSED EROSION. EARTHWORK OPERATIONS SHALL BE DISCONTINUED WHEN FUGITIVE DUST SIGNIFICANTLY IMPACTS ADJACENT PROPERTY. IF EARTHWORK IS COMPLETE OR DISCONTINUED AND DUST FROM THE SITE CONTINUES TO CREATE PROBLEMS, THE CONTRACTOR SHALL IMMEDIATELY INSTITUTE MITIGATIVE MEASURES AND SHALL CORRECT DAMAGE TO ADJACENT PROPERTY.

PERMANENT OR TEMPORARY SOIL-STABILIZATION MEASURES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 30 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. UNLESS SPECIFIED OTHERWISE, TEMPORARY VEGETATION SHALL BE INSTALLED ON ALL DISTURBED AREAS WHERE PERMANENT SURFACE IMPROVEMENTS ARE NOT SCHEDULED FOR INSTALLATION WITHIN THREE MONTHS. TEMPORARY VEGETATION SHALL BE A VIGOROUS, DROUGHT-TOLERANT, NATIVE SPECIES MIX. PROJECT SCHEDULING SHOULD TAKE ADVANTAGE OF SPRING OR FALL PLANTING SEASONS FOR NATURAL GERMINATION, BUT SEEDED AREAS SHALL BE IRRIGATED, IF CONDITIONS MERIT. REFER TO THE LANDSCAPE PLAN FOR FINAL LANDSCAPING.

TEMPORARY FENCES SHALL BE INSTALLED ALONG ALL BOUNDARIES OF THE CONSTRUCTION LIMITS OR PROPERTY LINES TO PREVENT GRADING ON PROPERTY NOT OWNED BY THE OWNER/DEVELOPER. IN ADDITION, THE TOWN OF EAGLE PUBLIC WORKS INSPECTOR MAY REQUIRE ADDITIONAL TEMPORARY FENCES IF FIELD CONDITIONS WARRANT.

THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM LEAVING THE SITE AND/OR CONTAMINATING THE BIORETENTION AREA DURING ALL DEMOLITION, EXCAVATION, TRENCHING, GRADING OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, ROADWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN INADVERTENTLY DISCHARGED TO, OR ACCUMULATED IN, THE FLOWLINES AND PUBLIC RIGHT-OF-WAY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT.

THE GRADING CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC ROADWAYS.

APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL CONTROL MEASURES WEEKLY AND AFTER PRECIPITATION EVENTS WHICH GENERATE RUNOFF. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IN A TIMELY MANNER. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A CONTROL MEASURE BEFORE THE SEDIMENT LEVEL REACHES ONE-HALF THE HEIGHT OF THE CONTROL MEASURE OR, AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE CONTROL MEASURE.

WATER USED IN THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES SHALL BE DISCHARGED INTO A PREDEFINED, BERMED CONTAINMENT AREA ON THE JOB SITE. THE REQUIRED CONTAINMENT AREA IS TO BE BERMED SO THAT WASH WATER IS TOTALLY CONTAINED. WASH WATER DISCHARGED INTO THE CONTAINMENT AREA SHALL NOT BE ALLOWED TO INFILTRATE BUT MAY EVAPORATE. DRIED CEMENT WASTE SHALL BE REMOVED FROM THE CONTAINMENT AREA AND PROPERLY DISPOSED OF. SHOULD A PREDEFINED, BERMED CONTAINMENT AREA NOT BE AVAILABLE DUE TO THE PROJECT SIZE, OR LACK OF AN AREA WITH A SUITABLE GROUND SURFACE FOR ESTABLISHING A CONTAINMENT AREA, PROPER DISPOSAL OF READY-MIX WASH-OUT AND RINSE-OFF WATER AT THE JOB SITE SHALL CONFORM TO THE APPROVED TECHNIQUES AND PRACTICES IDENTIFIED IN THE COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT'S TRAINING VIDEO ENTITLED "BUILDING FOR A CLEANER ENVIRONMENT, READY MIX WASHOUT TRAINING", AND ITS ACCOMPANYING MANUAL ENTITLED, "READY MIX WASHOUT GUIDEBOOK, VEHICLE AND EQUIPMENT WASHOUT AT CONSTRUCTION SITES." THE DIRECT OR INDIRECT DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED. INFORMATION ABOUT, OR COPIES OF THE VIDEO AND TRAINING MANUAL ARE AVAILABLE FROM THE WATER QUALITY CONTROL DIVISION, COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80222-1530, 303-692-3555.

PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING, OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE WATERSHED AND/OR STORM SEWER SYSTEM IS PROHIBITED.

13. PAVED SURFACES WHICH ARE ADJACENT TO CONSTRUCTION SITES SHALL BE SWEPT IN A TIMELY MANNER WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ON TO THEM. EITHER SWEEPING BY HAND OR USE OF STREET SWEEPERS IS ACCEPTABLE. STREET SWEEPERS USING WATER WHILE SWEEPING IS PREFERRED IN ORDER TO MINIMIZE DUST. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.

14. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON-SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICAL.

15. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TACKING, OR WIND.

16. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS.

17. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED CONTROL AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.

18. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.

19. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.

20. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPERCHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

21. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.

22. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.

23. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK EVERY 14 DAYS AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.

24. THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS, SUBCONTRACTORS, MATERIAL SUPPLIERS, LESSEES, AND PROPERTY OWNERS THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED.

25. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

26. THE ENTIRETY OF THE SOFTSCAPE WITHIN THE POND SHALL BE REVEGETATED IN ACCORDANCE WITH SECTION 6.02.3 OF THE TOWN OF EAGLE "PUBLIC WORKS MANUAL."

27. SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON-SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICAL, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.

28. APPROPRIATE CONTROL MEASURES FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON-SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

29. PROPOSED BIORETENTION AREA AND THE SOILS BENEATH CANNOT BE CONTAMINATED BY POLLUTANT-LADEN RUN-OFF OR ELSE THE SYSTEM WILL NOT WORK AS INTENDED. CONTRACTOR MUST TAKE EXCEPTIONAL CARE TO ENSURE ONLY CLEAN WATER REACHES THIS AREA. SILT FENCE SHALL BE PROVIDED AND MAINTAINED UNTIL 70% VEGETATIVE COVER IS PROVIDED ON ENTIRFTY OF SITE.

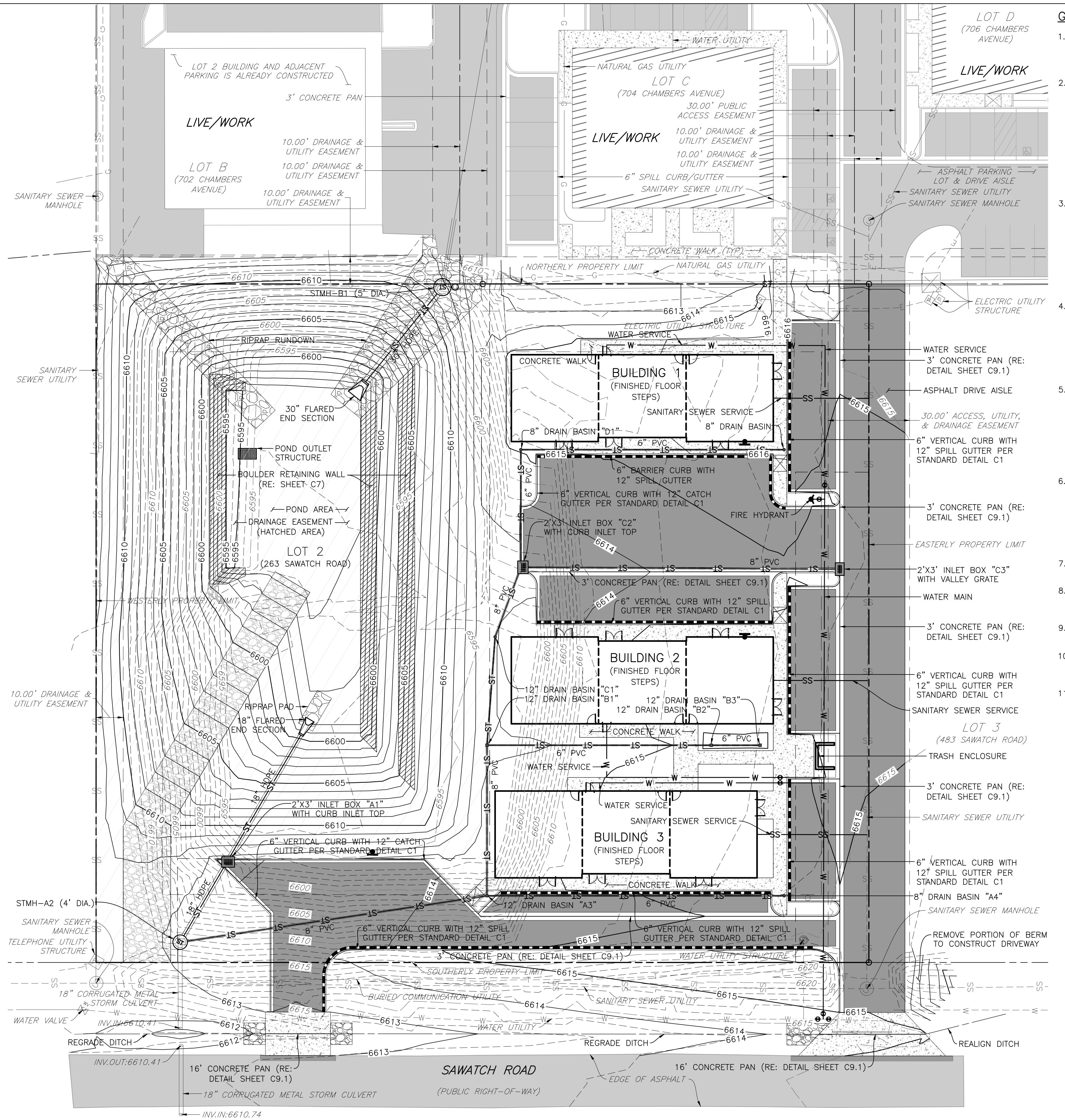
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(970) 323-7008

ED-USE DEVELOPMENT
263 SAWWATCH DRIVE
2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

SHEET TITLE
EROSION
CONTROL PLAN

SHEET NO.
C4



GRADING NOTES:

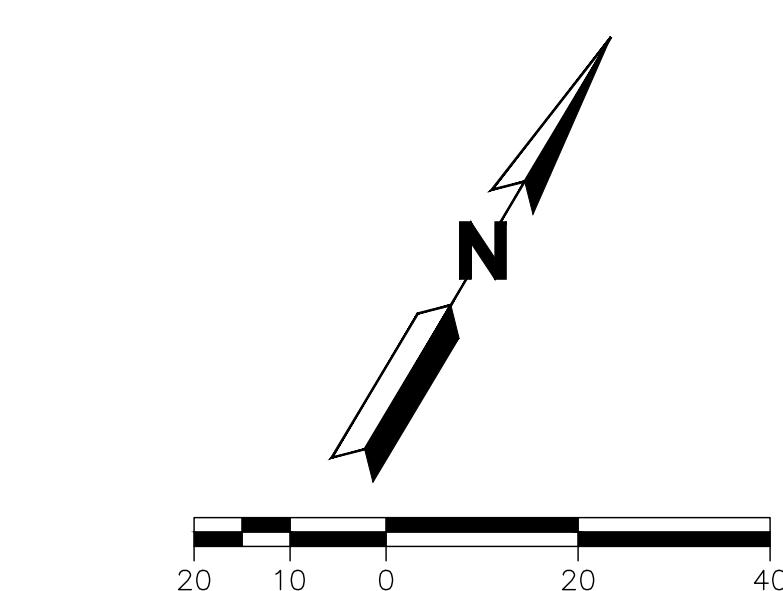
1. ALL SITE GRADING, EXCAVATION, EMBANKMENT, AND COMPACTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST GEOTECHNICAL INVESTIGATION FOR THIS PROPERTY AND SHALL FURTHER BE IN CONFORMANCE WITH THE TOWN OF EAGLE "PUBLIC WORKS MANUAL," LATEST EDITION.
 2. THE GRADING DESIGN SHOWN HEREON HAS BEEN PREPARED IN CONFORMANCE WITH THE REQUIREMENTS OF FHA AND HUD CRITERIA AND TO THE GREATEST EXTENT POSSIBLE, IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS FOR THIS PROJECT. VARIOUS CONFLICTING DESIGN CRITERIA MAKE TOTAL COMPLIANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS DIFFICULT [ADA, SITE PLAN LAYOUT, ETC.]. THUS, THESE PLANS HAVE BEEN PROVIDED TO THE GEOTECHNICAL ENGINEER FOR REVIEW AND COMMENT RELATIVE TO COMPLIANCE WITH THEIR RECOMMENDATIONS. IF THE GEOTECHNICAL ENGINEER DETERMINES THE DESIGN MAY COMPROMISE THE ACCEPTABLE PERFORMANCE OF THE STRUCTURES AND/OR PAVEMENTS, UPON RECEIPT OF THE WRITTEN COMMENTS FROM THE GEOTECHNICAL ENGINEER, COMMENTS WILL BE DISCUSSED AND RESOLVED WITH THE OWNER AND THE GEOTECHNICAL ENGINEER, AND WILL BE ADDRESSED IN A MANNER AS DIRECTED BY THE OWNER.
 3. IF THE OWNER ELECTS TO UTILIZE FOUNDATION SYSTEMS AND/OR PAVEMENT DESIGNS THAT REQUIRE SPECIAL CONSIDERATION FOR CONTROL OF SUBGRADE MOISTURE, SPECIAL PRECAUTIONS AND EXTRAORDINARY DESIGN PARAMETERS SHALL BE THE RESPONSIBILITY OF THE GEOTECHNICAL ENGINEER IN CONCERT WITH THE FOUNDATION/PAVEMENT DESIGN. IT IS ACKNOWLEDGED THAT VARIOUS FOUNDATION SYSTEMS REQUIRE DIFFERENT LEVELS OF SUBGRADE PREPARATION, DRAINAGE DESIGNS, AND/OR SUBSURFACE DRAINAGE CRITERIA THAT ARE BEYOND THE PURVIEW AND RESPONSIBILITY OF YARNELL CONSULTING & CIVIL DESIGN, LLC, AND THE GRADING PLANS SHOWN HEREON. THE INCORPORATION AND EXECUTION OF THESE SPECIAL PRECAUTIONS SHALL OCCUR IN CLOSE COORDINATION WITH THE GEOTECHNICAL ENGINEER'S DESIGN AND CONSTRUCTION OBSERVATIONS.
 4. GRADING SHOWN HEREON IS DESIGNED TO ADDRESS PROPER DRAINAGE CONSIDERATIONS FOR THE PROTECTION OF THE STRUCTURES AND IMPROVEMENTS WITHIN THE PROJECT. THE COORDINATION OF THIS DESIGN AND COMPLIANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATION WITH THE LANDSCAPE ARCHITECT'S DESIGN, IS THE RESPONSIBILITY OF THE OWNER AND/OR DEVELOPER. YARNELL CONSULTING & CIVIL DESIGN, LLC HIGHLY RECOMMENDS THAT THE LANDSCAPE IMPROVEMENTS BE REVIEWED AND APPROVED FOR COMPLIANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
 5. EXISTING ELEVATIONS SHOWN ON THIS DRAWING HAVE BEEN DEPICTED FROM BEST AVAILABLE INFORMATION AND ARE SHOWN TO THE EXTENT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING GRADE CONDITIONS AT THE LIMITS OF CONSTRUCTION AND AT LOCATIONS THAT INTERFACE WITH EXISTING OR PROPOSED BUILDINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT CONTRADICT THE ENGINEER'S INTENT FOR DRAINAGE PATTERNS, MAXIMUM AND MINIMUM SLOPES, AND PROPOSED ELEVATIONS AS SHOWN ON THE PLAN. THE ENGINEER WILL NOT BE LIABLE FOR ANY COSTS ASSOCIATED WITH CHANGES TO THE DESIGN WITHOUT PROPER NOTIFICATION.
 6. PROPOSED CONTOURS AND SPOT ELEVATIONS AS SHOWN HEREIN ARE DEFINED AS FINISHED ELEVATION AFTER PAVING, LANDSCAPING, ETC. CONTRACTOR SHALL COORDINATE WITH GEOTECH FOR PAVEMENT THICKNESS AND LANDSCAPE FOR THICKNESS OF TOPSOIL, SOD AND LANDSCAPE MATERIALS.

FG = FINISHED GRADE, FF = FINISH FLOOR, TOF = TOP OF FOUNDATION, HP = HIGH POINT, LP = LOW POINT, TOW = TOP OF WALL, FGW = FINISHED GRADE AT WALL [FRONT OR REAR], GB = GRADE BREAK, FL = FLOWLINE, TBC = TOP BACK OF CURB.

 7. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WALKWAYS SHALL BE CONSTRUCTED WITH AN ABSOLUTE MAXIMUM CROSS SLOPE OF 1.8% AND RUNNING SLOPE OF 4.9%.
 8. POSITIVE DRAINAGE MUST BE PROVIDED FROM ALL STRUCTURES. UNLESS SPECIFICALLY NOTED OTHERWISE, ENSURE 2.0% ON HARDSCAPE AND 10:1 [H:V] FOR 10 FEET ON SOFTSCAPE.
 9. ALL ISLANDS ARE TO BE GRADED SUCH THAT THERE IS A POSITIVE DRAINAGE TO ADJACENT CURB AND GUTTER.
 10. TEMPORARY CUT/FILL SLOPES SHALL NOT EXCEED A STEEPNESS OF 1:1 (H:V). PERMANENT SLOPES SHALL NOT EXCEED 3:1 (H:V) [UNLESS NOTED OTHERWISE] IN AREAS TO BE SEEDED OR SODDED.
 11. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED MANHOLE RIMS, VALVE BOXES, ETC. TO MATCH FINAL GRADE.

MARKING OF UNDERGROUND MEMBER UTILITIES

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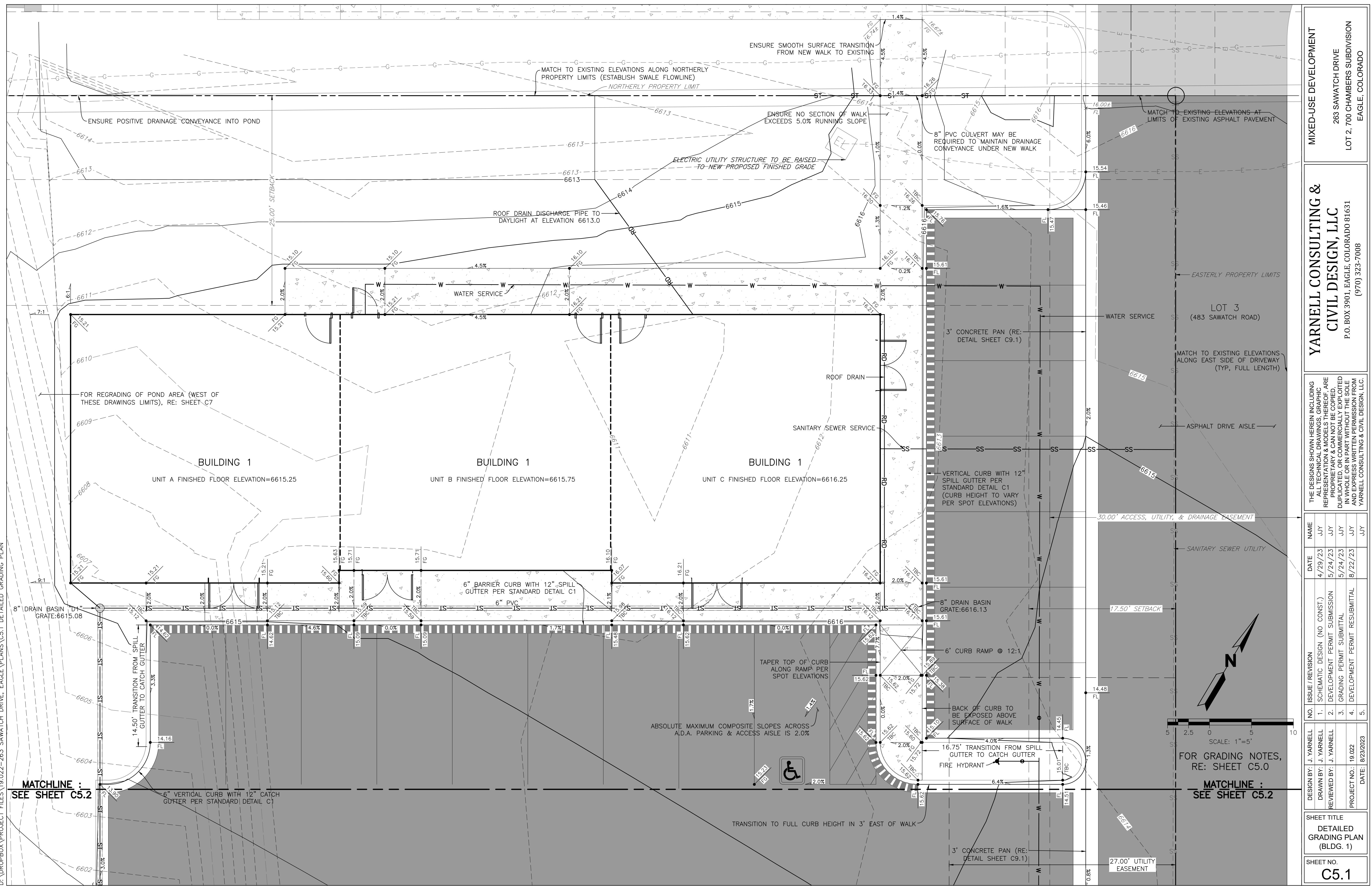


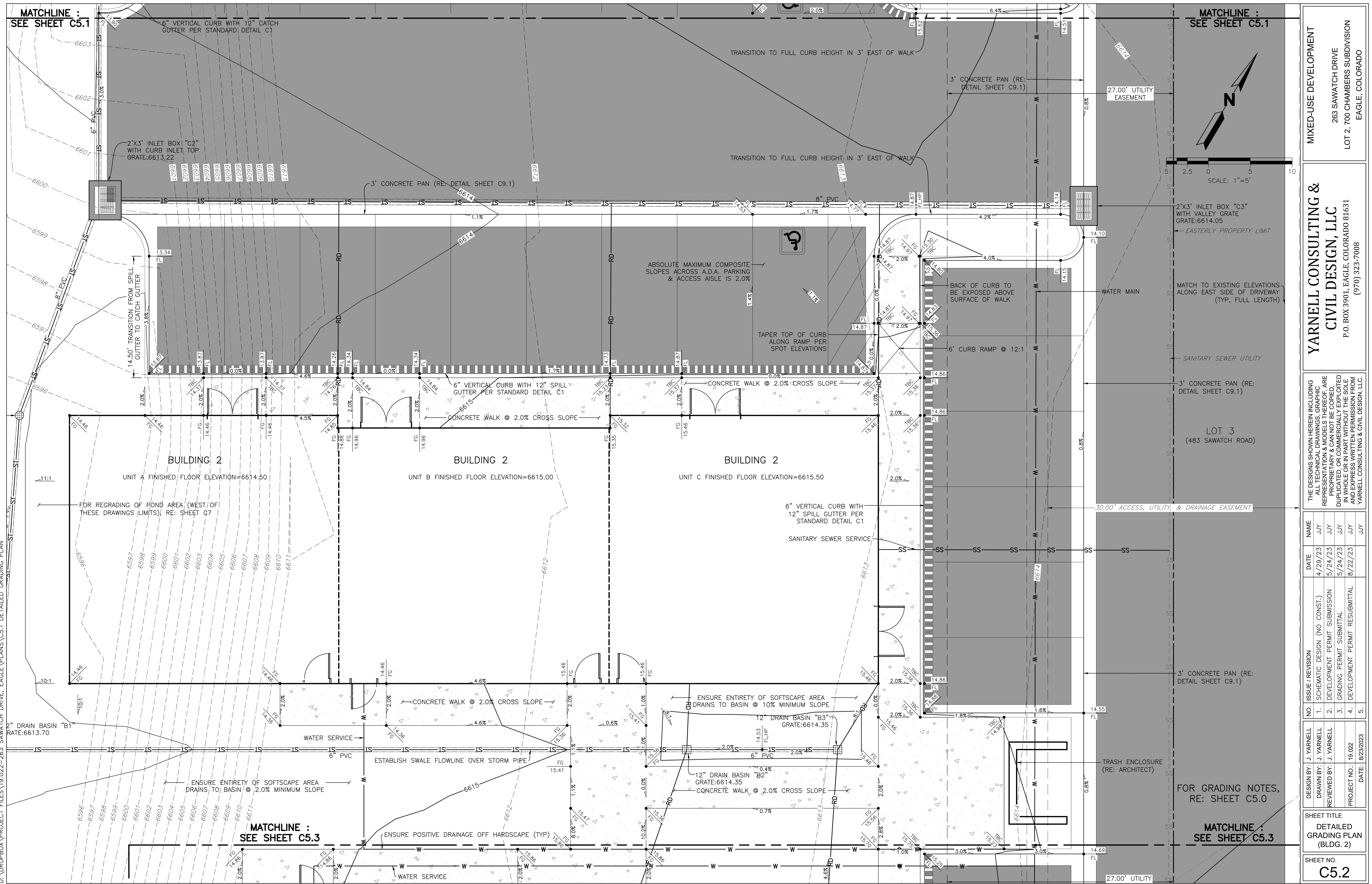
ED-USE DEVELOPMENT
263 SAWATCH DRIVE
2, 700 CHAMBERS SUBDIVISION
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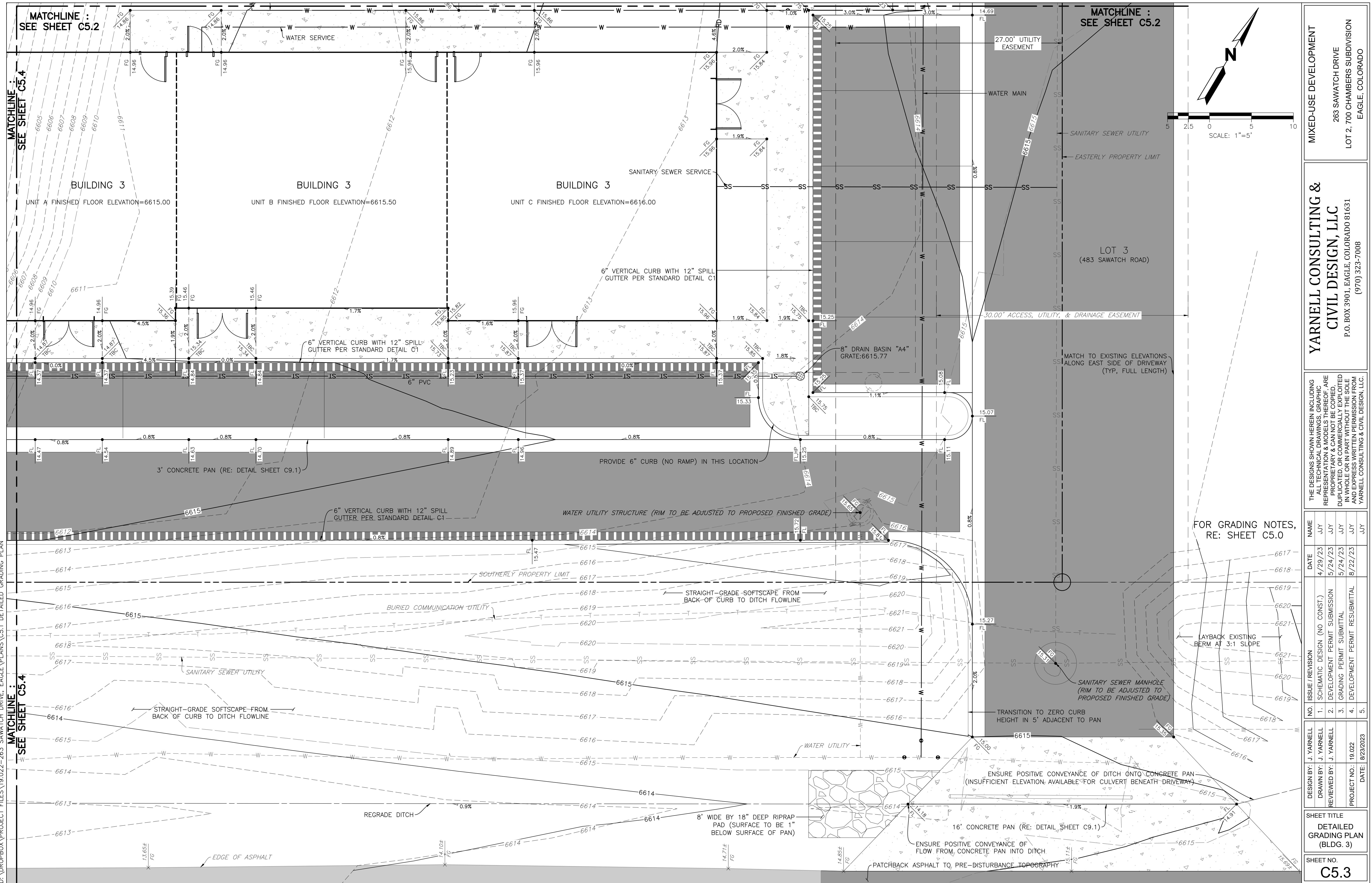
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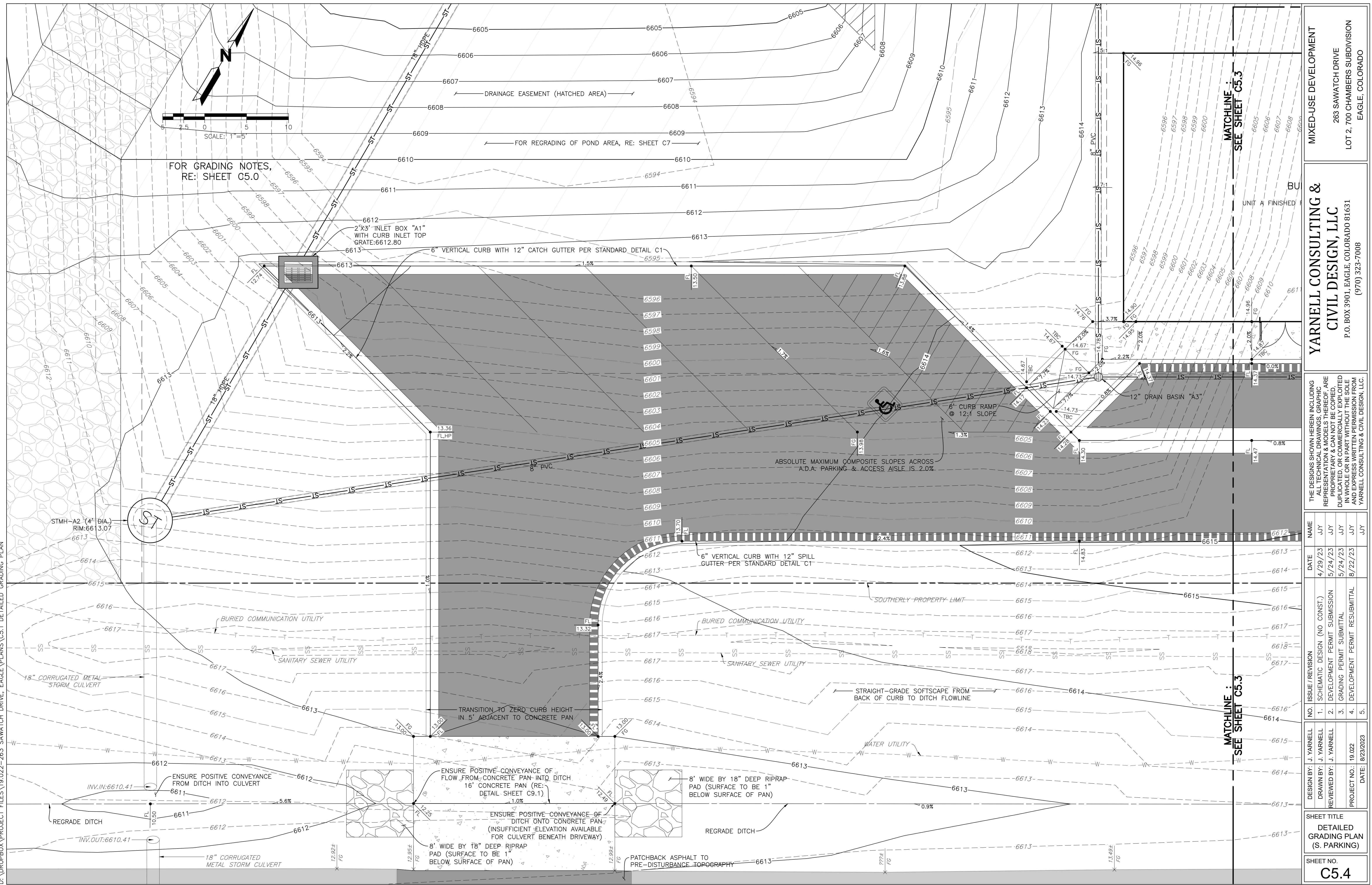
1, EAGLE, COLORADO 81051
(970) 323-7008

SHEET TITLE	
OVERALL GRADING PLAN	
SHEET NO.	
C5.0	
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DRAWN BY:	J. YARNELL
REVIEWED BY:	J. YARNELL
PROJECT NO.:	19.022
DATE:	8/23/2023
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2.	DEVELOPMENT PERMIT SUBMISSION
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4/29/23	JJY
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8/22/23	JJY
	JJY





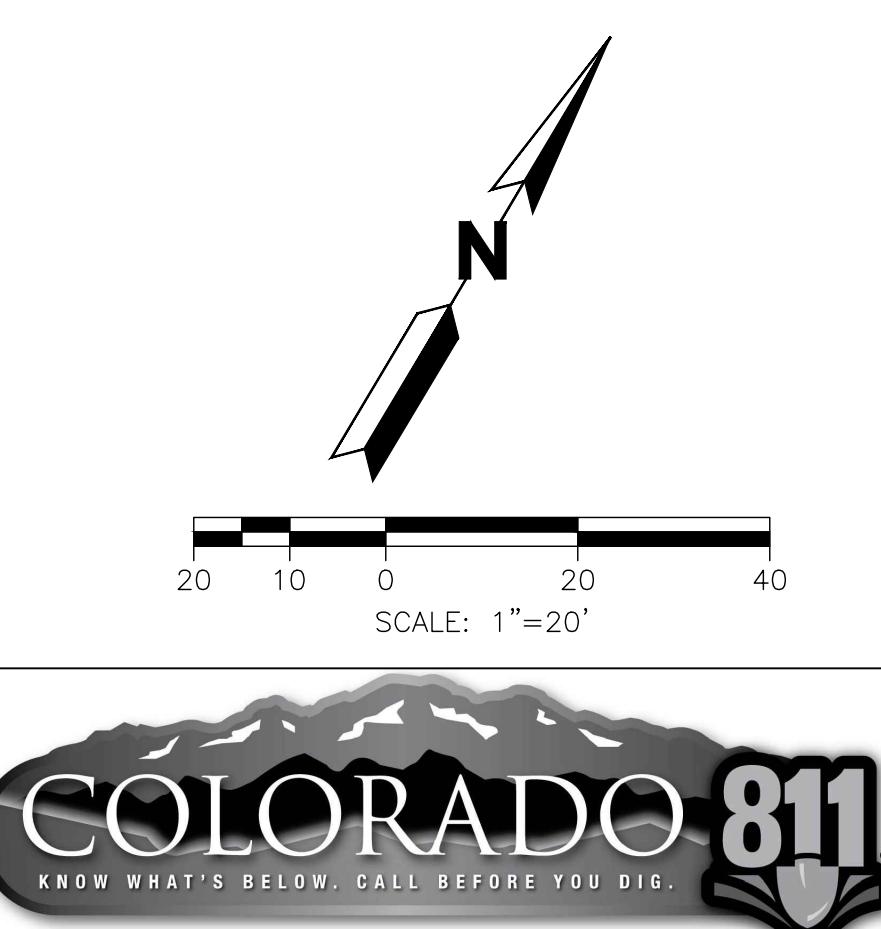
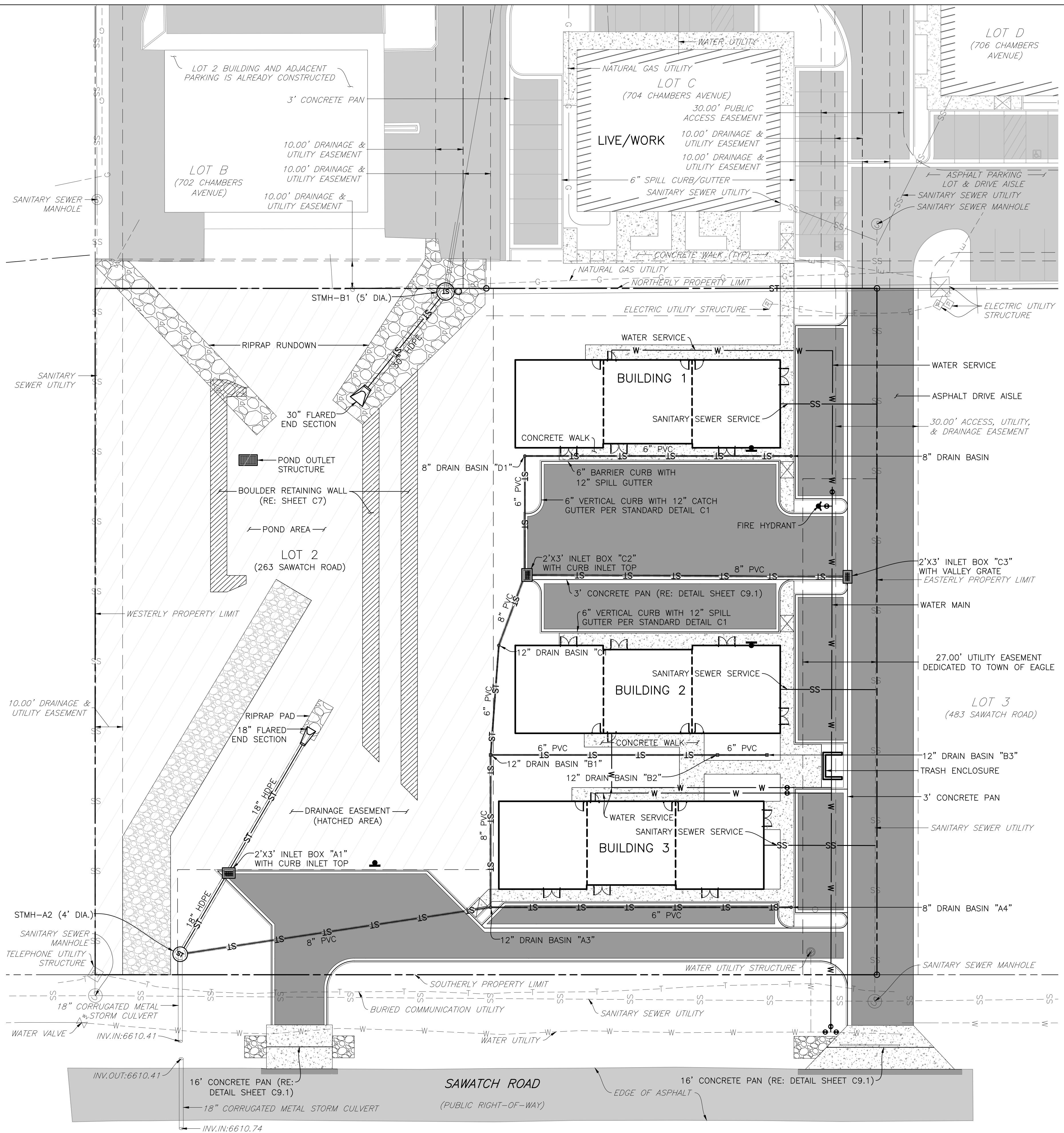




FOR UTILITY NOTES, RE: SHEET C6.3

UTILITY OWNERSHIP BREAKDOWN:

1. 8" DUCTILE IRON WATER MAIN IS PUBLIC
 2. 6" DUCTILE IRON FIRE HYDRANT LATERAL IS PUBLIC
 3. FIRE HYDRANT AND GUARD VALVE ARE PUBLIC
 4. 8" GATE VALVES ARE PUBLIC
 5. 4" GATE VALVES ARE PRIVATE
 6. 4" DUCTILE IRON WATER SERVICES ARE PRIVATE
 7. 6" PVC SANITARY SEWER SERVICES ARE PRIVATE
 8. SANITARY SEWER CLEAN-OUTS ARE PRIVATE
 9. SANITARY SEWER WYES ARE PUBLIC
 10. STORM SEWER MANHOLE A1 (STMH-A1) AND 2'X3' INLET BOX A2 ARE PUBLIC
 11. STORM SEWER PIPES LARGER THAN 8" IN DIAMETER ARE PUBLIC
 12. EXCEPT AS NOTED ABOVE, STORM SEWER PIPES AND STRUCTURES ARE PRIVATE



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ED-USE DEVELOPMENT
263 SAWATCH DRIVE
700 CHAMBERS SUBDIVISION
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DATE:	8/23/2023	5.		
SHEET TITLE				
OVERALL UTILITY PLAN				
SHEET NO.				
C6.0				

FOR UTILITY NOTES, RE: SHEET C6.3

SAWATCH ESTATES
2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

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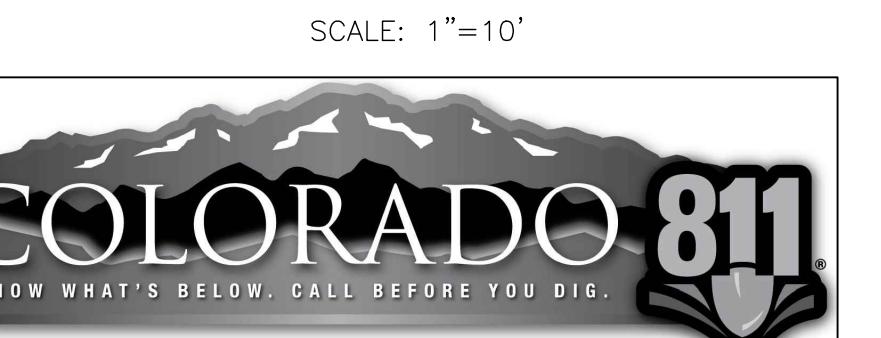
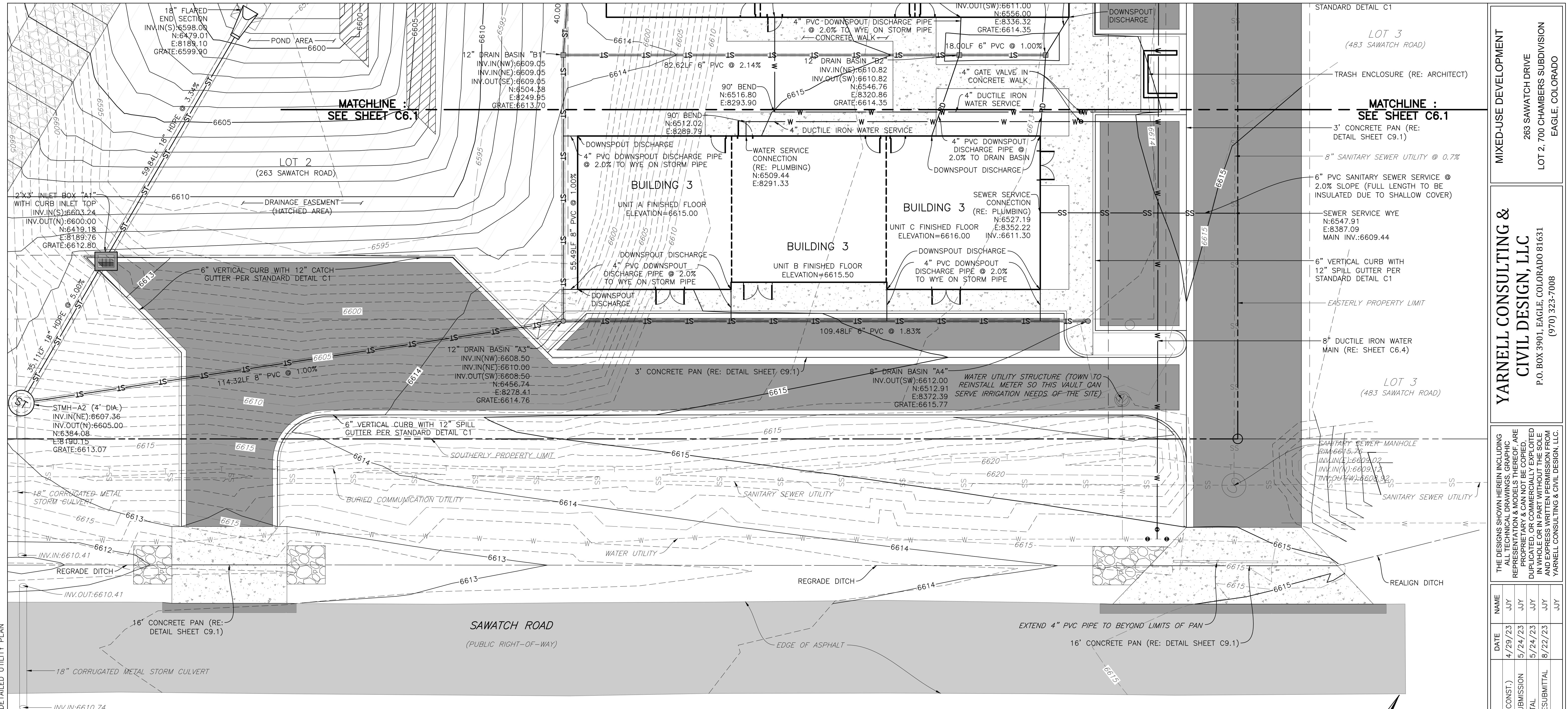
Figure 1 shows a 3D vector field plot. The vectors are represented by black arrows, with their length indicating the magnitude and their orientation indicating the direction. A large vector labeled 'N' is shown originating from a point. A color bar at the bottom indicates the scale, with values 5, 0, 10, and 20 marked. The plot is set against a white background.



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BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS.
THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM
THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE
CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE,
MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES
PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

DESIGN BY:	J. YARNELL	NO.	ISSUE / REVISION	DATE	NAME
DRAWN BY:	J. YARNELL	1.	SCHEMATIC DESIGN (NO CONST.)	4/29/23	JY
REVIEWED BY:	J. YARNELL	2.	DEVELOPMENT PERMIT SUBMISSION	5/24/23	JY
		3.	GRADE PERMIT SUBMITTAL	5/24/23	JY
PROJECT NO.:	19-022	4.	DEVELOPMENT PERMIT RESUBMITTAL	8/22/23	JY
DATE:	8/23/2023	5.			

SHEET TITLE
DETAILED UTILITY PLAN

SHEET NO.
C6.2

UTILITY LOCATION NOTES:

1. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO [UNCC] AT 1-800-922-1087, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. OTHER UNREGISTERED UTILITY ENTITIES ARE TO BE LOCATED BY CONTACTING THE RESPECTIVE REPRESENTATIVE. UTILITY SERVICE LATERALS ARE ALSO TO BE LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL FIELD VERIFY SIZE, AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER, UTILITY PROVIDER(S), AND TOWN OF EAGLE PUBLIC WORKS INSPECTOR OF ANY DISCREPANCIES.
2. YARNELL CONSULTING & CIVIL DESIGN, LLC (YCCD) ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION, [HORIZONTAL AND VERTICAL] OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND NOTIFY THE ENGINEER, UTILITY PROVIDER(S), AND TOWN OF EAGLE PUBLIC WORKS INSPECTOR OF ANY DISCREPANCIES.
3. IN ACCORDANCE WITH NEW REGULATIONS, ALL UTILITIES CONSTRUCTED AFTER JANUARY 01, 2019 SHALL BE EQUIPPED WITH 10-GAUGE (MINIMUM) TRACER WIRE TAPE TO THE TOP OF THE PIPE.

DRY UTILITY GENERAL NOTES:

1. ALL BENDS SHALL BE SWEEPING.
2. FOR FINISHED GRADE AT PAD/PEDESTAL LOCATIONS, RE: DETAILED GRADING PLANS. RAISE PAD ELEVATION TO MEET JURISDICTIONAL STANDARD.

ELECTRIC NOTES:

1. ELECTRIC DESIGN IS BY OTHERS. INTENT OF UTILITY PLAN(S) IS TO SHOW CONDUIT ROUTING AND EQUIPMENT PLACEMENT ON THE SITE FOR COORDINATION PURPOSES.
2. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH HOLY CROSS ENERGY CONSTRUCTION STANDARDS (LATEST EDITION).
3. INDIVIDUAL CONDUITS SHALL BE PROVIDED BETWEEN THE TRANSFORMER AND EACH UNIT.
4. ALL ELECTRIC CONDUITS SHALL BE 4" PVC.

FIBER OPTIC (F.O.) / TELEPHONE NOTES:

1. COMMUNICATION DESIGN IS BY OTHERS. INTENT OF UTILITY PLANS IS TO SHOW CONDUIT ROUTING AND EQUIPMENT PLACEMENT ON THE SITE FOR COORDINATION PURPOSES.
2. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH LUMEN CONSTRUCTION STANDARDS (LATEST EDITION).

CABLE TELEVISION NOTES:

1. CABLE TELEVISION DESIGN IS BY OTHERS. INTENT OF UTILITY PLANS IS TO SHOW CONDUIT ROUTING AND EQUIPMENT PLACEMENT ON THE SITE FOR COORDINATION PURPOSES.
2. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH COMCAST CONSTRUCTION STANDARDS (LATEST EDITION).

NATURAL GAS NOTES:

1. NO NATURAL GAS UTILITIES ARE PROPOSED ON THE PROJECT.

SANITARY SEWER NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF EAGLE "PUBLIC WORKS MANUAL" [LATEST REVISION]. ALL SANITARY SEWER CONSTRUCTION SHALL BE INSPECTED BY A TOWN OF EAGLE PUBLIC WORKS INSPECTOR.
2. ALL SANITARY SEWER LINES SHALL BE CLASS 150 C900 POLYVINYL CHLORIDE [PVC] PIPE IN ACCORDANCE WITH ASTM D-2241.
3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SEWER POINTS OF CONNECTION PRIOR TO CONSTRUCTION OF ANY PROPOSED SEWER.
4. ALL SANITARY SEWER TESTING SHALL BE DONE IN ACCORDANCE WITH THE TOWN OF EAGLE "PUBLIC WORKS MANUAL" [LATEST REVISION].
5. THE ENGINEER, OWNER, AND TOWN OF EAGLE PUBLIC WORKS INSPECTOR SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY PLANNED CONSTRUCTION.
6. MAINTAIN A MINIMUM OF TEN [10] FEET HORIZONTAL SEPARATION BETWEEN THE OUTSIDE OF ALL SANITARY SEWER AND WATER MAINS AND SERVICES.
7. DISTANCES FOR SANITARY SEWER ARE THE HORIZONTAL DISTANCES BETWEEN THE CENTER OF STRUCTURES. THEREFORE, DISTANCES SHOWN ON PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND STRUCTURE WIDTHS.
8. CONTRACTOR TO COORDINATE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITY SERVICE CONNECTIONS TO BUILDING WITH MECHANICAL/PLUMBING PLANS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
9. ALL SANITARY SEWERS SHALL BE BED PER THE TOWN OF EAGLE'S STANDARD TRENCHING AND BACKFILL DETAIL.

10. NO BACKFILL MATERIAL SHALL BE PLACED ABOVE THE SPRINGLINE OF THE PIPE UNTIL A TOWN OF EAGLE PUBLIC WORKS INSPECTOR HAS AUTHORIZED BACKFILLING. IT SHALL BE THE DUTY OF THE CONTRACTOR TO NOTIFY THE TOWN OF EAGLE PUBLIC WORKS INSPECTOR 48 HOURS IN ADVANCE OF PROPOSED BACKFILL OPERATIONS SO A TOWN OF EAGLE PUBLIC WORKS INSPECTOR MAY INSPECT THE PIPE AND THE BEDDING PRIOR TO BACKFILLING.
11. ALL SANITARY SEWER PIPES SHALL BE INSTALLED WITH INSULATED NO. 12 TYPE UF TAPE ON TOP OF PIPE AS A TRACER WIRE. TRACER WIRE IS TO BE LOOPED UP TO EACH STRUCTURE (INLETS, OUTLETS, MANHOLES AND/OR CLEANOUTS, AS APPLICABLE). A CATHODIC PROTECTION BOX IS TO BE SET ON THE RIGHT HAND SIDE OF EACH STRUCTURE. THE BOX SHALL HAVE A CAST IRON LOCKING LID WITH A THREE AND ONE-HALF INCH [3-1/2"] DIAMETER, EIGHTEEN INCH [18"] LONG PVC BODY. THE CAP WILL NEED A TWO-WIRE CONNECTION POST AS A MINIMUM.

12. CONTRACTOR SHALL IMMEDIATELY REMOVE DEBRIS DEPOSITED INTO PUBLIC MANHOLES AND OTHER PUBLIC STRUCTURES TO ELIMINATE THE POSSIBILITY OF PROPERTY DAMAGE DUE TO THE DEBRIS CAUSING BACKUP INTO PRIVATE PROPERTIES. IF IT IS DETERMINED THAT DEBRIS CAUSED A BACKUP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES.
13. NO TREES SHALL BE PLANTED WITHIN ANY SEWER EASEMENT OR WITHIN TEN [10] FEET OF ANY PUBLIC MANHOLES, OR PIPES.

14. CONTRACTOR SHALL IMMEDIATELY REMOVE DEBRIS DEPOSITED INTO PUBLIC MANHOLES AND OTHER PUBLIC STRUCTURES TO ELIMINATE THE POSSIBILITY OF PROPERTY DAMAGE DUE TO THE DEBRIS CAUSING BACKUP INTO PRIVATE PROPERTIES. IF IT IS DETERMINED THAT DEBRIS CAUSED A BACKUP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES.
15. NO TREES SHALL BE PLANTED WITHIN ANY UTILITY EASEMENT OR WITHIN TEN [10] FEET OF ANY PUBLIC MANHOLES, PIPES OR INLETS.
16. RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE, SUCH THAT THERE IS NO MORE THAN EIGHTEEN [18] INCHES FROM FINISHED GRADE TO THE TOP OF THE CONE SECTION. THE RIM SHALL BE LEFT 1/8-INCH TO 1/4-INCH BELOW FINISHED ASPHALT.
17. COORDINATES FOR AREA INLETS ARE AT CENTER OF INLET. COORDINATES FOR FLARED END SECTIONS ARE AT CENTER OF FLARED END.
18. SLOPE OF INLET FLOW LINE OR GRATE TO MATCH STREET GRADE UNLESS INLET IS AT A SUMP LOCATION.
19. CONTRACTOR TO COORDINATE HORIZONTAL AND VERTICAL LOCATIONS OF ROOF DRAIN SERVICES AND DOWNSPOUTS WITH PLUMBING AND ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
20. FOR ANY INFILTRATION SYSTEMS PROPOSED AS PART OF THE PROJECT, CONTRACTOR SHALL ENGAGE THE PROJECT'S GEOTECHNICAL ENGINEER TO PERFORM AN OPEN HOLE INSPECTION AND ENSURE THE INFILTRATION RATE IS NO LESS THAN 5 MINUTES / INCH. THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY OF TEST RESULTS.

STORM SEWER NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF EAGLE "PUBLIC WORKS MANUAL" [LATEST REVISION]. ALL STORM SEWER CONSTRUCTION SHALL BE INSPECTED BY A TOWN OF EAGLE PUBLIC WORKS INSPECTOR.
2. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING STORM SEWER POINTS OF CONNECTION PRIOR TO CONSTRUCTION OF ANY PROPOSED STORM SEWER.
3. ALL STORM SEWER LINES 12 INCHES IN SIZE AND GREATER SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH ASTM F-405.
4. ALL STORM SEWER LINES LESS THAN 12 INCHES IN SIZE SHALL BE SDR-35 POLYVINYL CHLORIDE [PVC] PIPE IN ACCORDANCE WITH ASTM D-3034.
5. ALL STORM SEWER PIPE JOINTS SHALL BE BELL AND SPIGOT TYPE, INSTALLED WITH AN APPROVED RUBBER GASKET O-RING OR PROFILE TYPE GASKET SO AS TO BE WATER-TIGHT.
6. DISTANCES FOR STORM SEWER PIPE ARE THE HORIZONTAL DISTANCES BETWEEN CENTER OF STRUCTURES. THEREFORE, DISTANCES SHOWN ON PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND STRUCTURE WIDTHS.
7. WHERE APPLICABLE, DISTANCES FOR STORM SEWER PIPE INCLUDE THE LENGTH OF THE FLARED END SECTION.

8. ALL STORM SEWER PIPES SHALL BE INSTALLED WITH INSULATED NO. 12 TYPE UF TAPE ON TOP OF PIPE AS A TRACER WIRE. TRACER WIRE IS TO BE LOOPED UP TO EACH STRUCTURE (INLETS, OUTLETS, MANHOLES AND/OR CLEANOUTS, AS APPLICABLE). A CATHODIC PROTECTION BOX IS TO BE SET ON THE RIGHT HAND SIDE OF EACH STRUCTURE. THE BOX SHALL HAVE A CAST IRON LOCKING LID WITH A THREE AND ONE-HALF INCH [3-1/2"] DIAMETER, EIGHTEEN INCH [18"] LONG PVC BODY. THE CAP WILL NEED A TWO-WIRE CONNECTION POST AS A MINIMUM.
9. MANHOLES, BARRELS, CONES, AND COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) INLETS SHALL BE CONSTRUCTED OF PRECAST CONCRETE. CAST-IN-PLACE STRUCTURES SHALL NOT BE ALLOWED.
10. PRECAST MANHOLES AND RISERS SHALL BE MANUFACTURED IN CONFORMITY WITH ASTM DESIGNATION C-478. ALL CONES SHALL BE ECCENTRIC, EXCEPT FOR MANHOLE DEPTHS SIX [6] FEET OR LESS WHEN A FLAT TOP SECTION SHALL BE USED.
11. DRAIN BASINS SHALL BE AS MANUFACTURED BY NYLOPLAST, OR APPROVED EQUAL. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DOCUMENTATION.

12. ALL STORM SEWERS SHALL BE BED PER THE TOWN OF EAGLE'S STANDARD TRENCHING AND BACKFILL DETAIL.
13. THE FLEXIBLE PLASTIC JOINT SEALING COMPOUND WITHIN PRECAST STRUCTURES SHALL BE "RAMNEK" RUBBERNECK OR APPROVED EQUAL.
14. CONTRACTOR SHALL IMMEDIATELY REMOVE DEBRIS DEPOSITED INTO PUBLIC MANHOLES AND OTHER PUBLIC STRUCTURES TO ELIMINATE THE POSSIBILITY OF PROPERTY DAMAGE DUE TO THE DEBRIS CAUSING BACKUP INTO PRIVATE PROPERTIES. IF IT IS DETERMINED THAT DEBRIS CAUSED A BACKUP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES.
15. NO TREES SHALL BE PLANTED WITHIN ANY UTILITY EASEMENT OR WITHIN TEN [10] FEET OF ANY PUBLIC MANHOLES, PIPES OR INLETS.
16. RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS TO ADJUST THE MANHOLE FRAME TO THE REQUIRED FINAL GRADE, SUCH THAT THERE IS NO MORE THAN EIGHTEEN [18] INCHES FROM FINISHED GRADE TO THE TOP OF THE CONE SECTION. THE RIM SHALL BE LEFT 1/8-INCH TO 1/4-INCH BELOW FINISHED ASPHALT.
17. COORDINATES FOR AREA INLETS ARE AT CENTER OF INLET. COORDINATES FOR FLARED END SECTIONS ARE AT CENTER OF FLARED END.
18. SLOPE OF INLET FLOW LINE OR GRATE TO MATCH STREET GRADE UNLESS INLET IS AT A SUMP LOCATION.
19. CONTRACTOR TO COORDINATE HORIZONTAL AND VERTICAL LOCATIONS OF ROOF DRAIN SERVICES AND DOWNSPOUTS WITH PLUMBING AND ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
20. FOR ANY INFILTRATION SYSTEMS PROPOSED AS PART OF THE PROJECT, CONTRACTOR SHALL ENGAGE THE PROJECT'S GEOTECHNICAL ENGINEER TO PERFORM AN OPEN HOLE INSPECTION AND ENSURE THE INFILTRATION RATE IS NO LESS THAN 5 MINUTES / INCH. THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY OF TEST RESULTS.

WATER NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF EAGLE "PUBLIC WORKS MANUAL" [LATEST REVISION]. ALL WATER UTILITY CONSTRUCTION SHALL BE INSPECTED BY A TOWN OF EAGLE PUBLIC WORKS INSPECTOR.
2. ALL WATER UTILITY CONSTRUCTION SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE TOWN OF EAGLE. THE ENGINEER, OWNER AND TOWN OF EAGLE PUBLIC WORKS INSPECTOR SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY PLANNED CONSTRUCTION.
3. ALL WATER MAINS, FIRE HYDRANT LATERALS, AND SERVICES FOUR [4] INCHES IN SIZE AND GREATER SHALL BE DUCTILE IRON, MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C151, CLASS 52, WITH BITUMINOUS OUTSIDE COATING (ONE MIL THICK) AND CEMENT MORTAR LINING PER AWWA C104. PIPE JOINTS SHALL BE PUSH-ON TYPE UTILIZING RUBBER RING GASKET IN ACCORDANCE WITH AWWA C111. PIPE SHALL BE SUPPLIED WITH COPPER BONDING STRAPS AND MECHANICAL ATTACHMENT. A #4 CONDUCTOR AND CADWELDS (CHARGE SIZE CA 45) OR THE MANUFACTURERS' SUPPLIED STRAP SHALL BE USED TO BOND EACH JOINT AND FITTING.
4. ALL WATER PIPE JOINT FITTINGS SHALL BE MADE FROM ASTM A536, 65-45-12 DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL BE AT A PRESSURE RATING OF 350 PSI AND SHALL BE WRAPPED WITH EIGHT MILLIMETER MINIMUM THICKNESS POLYETHYLENE MATERIAL IN ACCORDANCE WITH AWWA STANDARD C105. TWIST-OFF NUTS, SIZED THE SAME AS THE TEE-HEAD BOLTS, SHALL BE USED TO ENSURE PROPER ACTUATING OF RESTRAINING DEVICES.

5. ALL WATER PIPES SHALL BE INSTALLED WITH INSULATED NO. 12 TYPE UF TAPE ON TOP OF PIPE AS A TRACER WIRE. TRACER WIRE IS TO BE LOOPED UP TO EACH HYDRANT. A CATHODIC PROTECTION BOX IS TO BE SET ON THE RIGHT HAND SIDE OF EACH HYDRANT. THE BOX SHALL HAVE A CAST IRON LOCKING LID WITH A THREE AND ONE-HALF INCH [3-1/2"] DIAMETER, EIGHTEEN INCH [18"] LONG PVC BODY. THE CAP WILL NEED A TWO-WIRE CONNECTION POST AS A MINIMUM.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST ALL WATER VALVE BOXES TO THE REQUIRED FINAL GRADE. IN ADDITION, VALVE EXTENSIONS SHALL BE INSTALLED SUCH THAT A VALVE KEY SIX [6] FEET IN LENGTH CAN OPERATE THE VALVE.
7. NO PIPE SHALL BE BACKFILLED UNTIL IT HAS BEEN INSPECTED BY A TOWN OF EAGLE PUBLIC WORKS INSPECTOR.
8. THE MANUFACTURER SHALL FURNISH A CERTIFIED STATEMENT THAT ALL OF THE SPECIFIED TESTS AND INSPECTIONS HAVE BEEN MADE AND THE RESULTS THEREOF COMPLY WITH THE REQUIREMENT OF THE APPLICABLE STANDARDS HEREIN SPECIFIED. A COPY OF THE CERTIFICATION WILL BE SENT TO THE TOWN OF EAGLE PUBLIC WORKS INSPECTOR UPON REQUEST.

9. DISTANCES FOR WATER ARE THE HORIZONTAL DISTANCE BETWEEN CENTER OF FITTING TO CENTER OF VALVE, METER, ETC. THEREFORE, DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND FITTING DIMENSIONS.
10. MAINTAIN A MINIMUM OF TEN [10] FEET HORIZONTAL SEPARATION BETWEEN THE OUTSIDE OF ALL SANITARY SEWER AND WATER MAINS AND SERVICES.
11. FOR ALL PIPE INSTALLATIONS, THE DEPTH OF COVER OVER THE PIPE MEASURED FROM OFFICIAL FINISHED/FINAL GRADE TO THE TOP OF THE PIPE SHALL BE A MINIMUM OF SIX [6] AND MAXIMUM OF NINE [9] FEET AND SHALL BE KNOWN AS THE COVER OVER THE PIPE.
12. FIRE HYDRANTS SHALL CONFORM TO THE TOWN OF EAGLE MATERIALS AND SPECIFICATIONS. FIRE HYDRANT ASSEMBLIES SHALL INCLUDE ALL PIPE, FITTINGS, VALVES, THRUST BLOCKS, RESTRAINTS, AND MATERIALS NECESSARY TO INSTALL THE HYDRANT.
13. INSTALL THRUST BLOCKS AT ALL BENDS, STUBS AND TEES IN WATER LINES. ALL BLOW-OFFS, VALVES AND BENDS SHALL BE RODDED OR MECHANICALLY-RESTRAINED PER TOWN OF EAGLE DETAILS AS NOTED OR IF SOIL CONDITIONS ARE UNSTABLE OR AS DIRECTED BY THE TOWN OF EAGLE PUBLIC WORKS INSPECTOR.
14. CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE CHLORINATED PER THE TOWN OF EAGLE'S REQUIREMENTS.
15. WHEN IT IS NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSINGS, A MINIMUM CLEARANCE OF 18 INCHES SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF PIPES.
16. INDIVIDUAL SERVICE LINE PRESSURE REGULATING VALVES ARE REQUIRED.
17. THE WATER QUALITY CONTROL DIVISION OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT [CDPHE] REQUIRES ALL WATER LINE CONTRACTORS TO POSSESS A CURRENT DISCHARGE PERMIT FOR DISCHARGES OF CHLORINATED AND PROCESS WATERS ASSOCIATED WITH THE INSTALLATION OF NEW MAINS OR CONDUITS. CONTACT CDPHE WATER QUALITY CONTROL DIVISION AT 303-692-3539 FOR INFORMATION ON OBTAINING THE REQUIRED PERMIT.

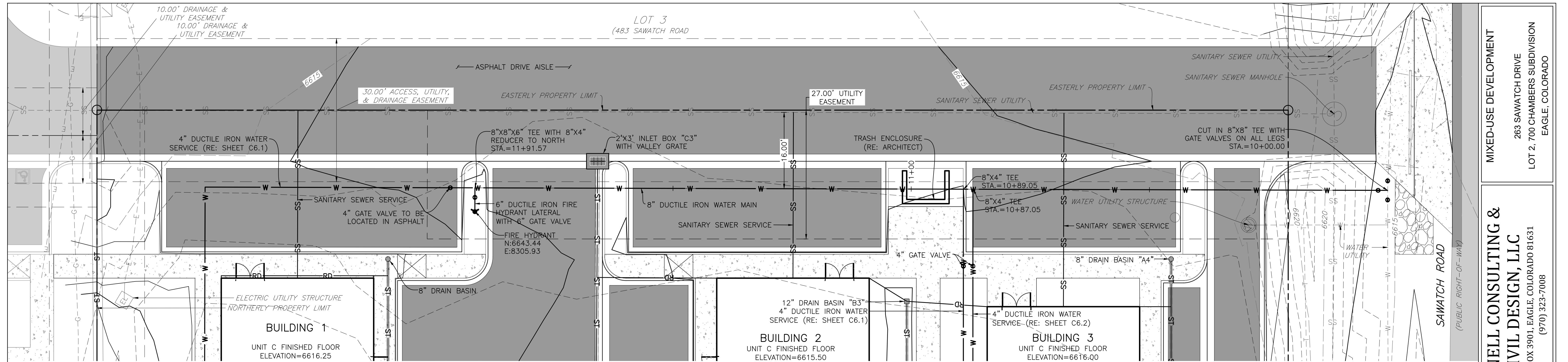
18. CONTRACTOR TO COORDINATE HORIZONTAL AND VERTICAL LOCATIONS OF UTILITY SERVICE CONNECTIONS TO BUILDING WITH MECHANICAL/PLUMBING PLANS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
19. THE WATER SERVICE SIZE HAS BEEN PROVIDED BY THE PROJECT'S LIFE SAFETY ENGINEER BASED UPON THE DEMANDS OF THE FIRE SUPPRESSION SYSTEM IN CONJUNCTION WITH THE AVAILABLE PRESSURE AND VOLUME FROM THE PUBLIC SYSTEM AT THE CONNECTION POINT.

MIXED-USE DEVELOPMENT
263 SAWATCH DRIVE
LOT 2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

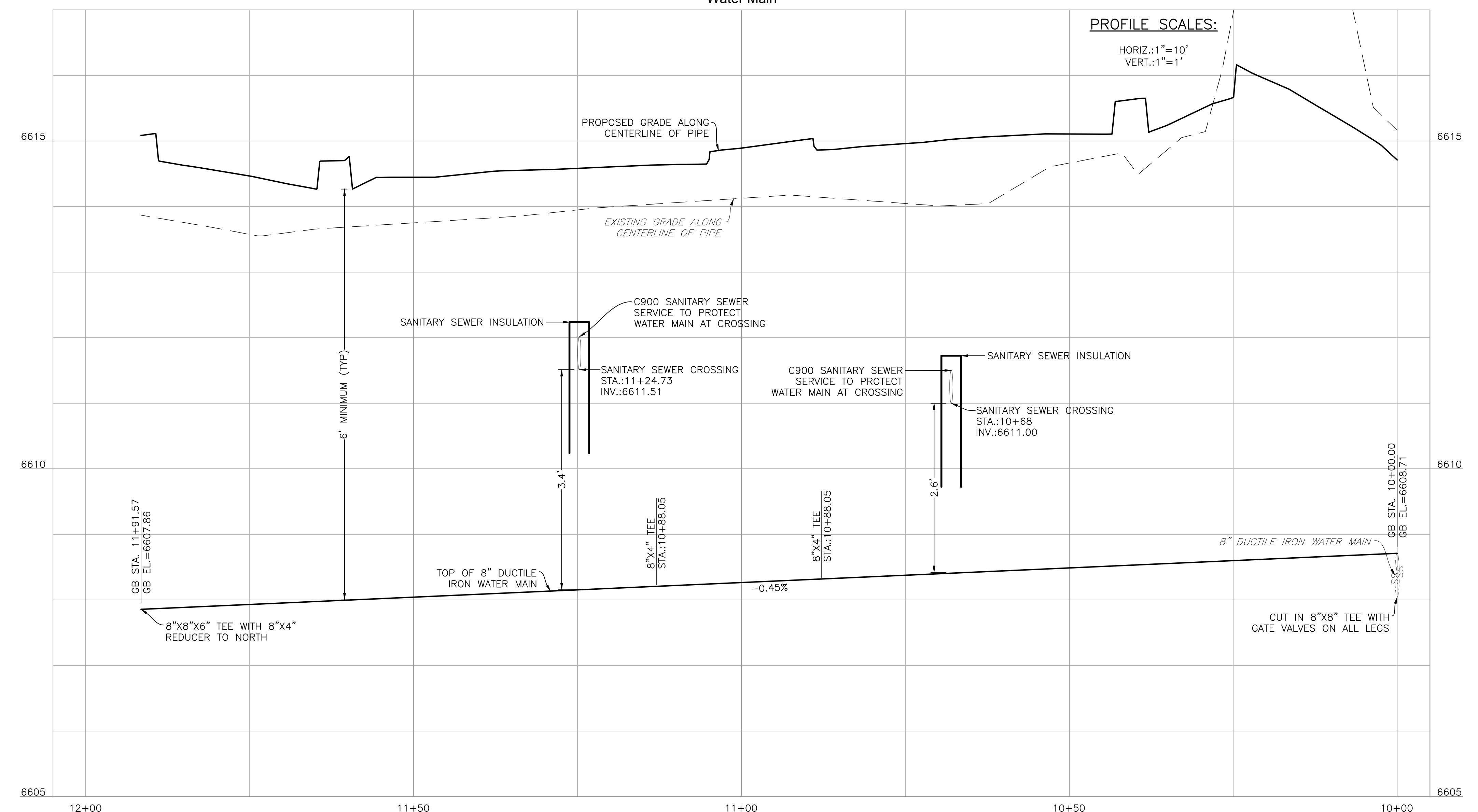
YARNELL CONSULTING &
CIVIL DESIGN, LLC
P.O. BOX 3901 EAGLE, COLORADO 81631
(970) 323-7008

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SHEET TITLE
UTILITY NOTES
SHEET NO.
C6.3



Water Main



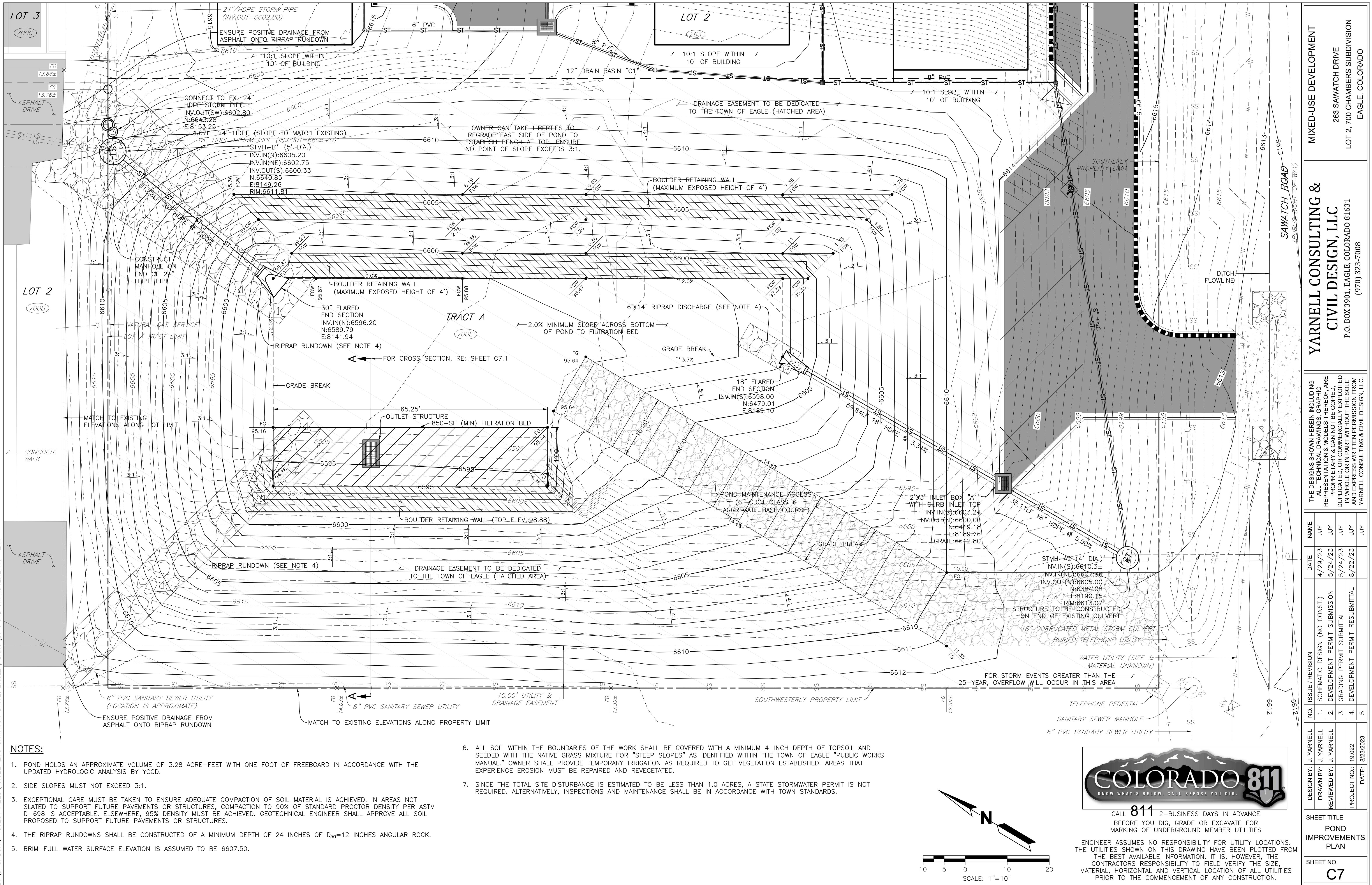
FOR UTILITY NOTES RE SHEET 06.3



CALL **811** 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

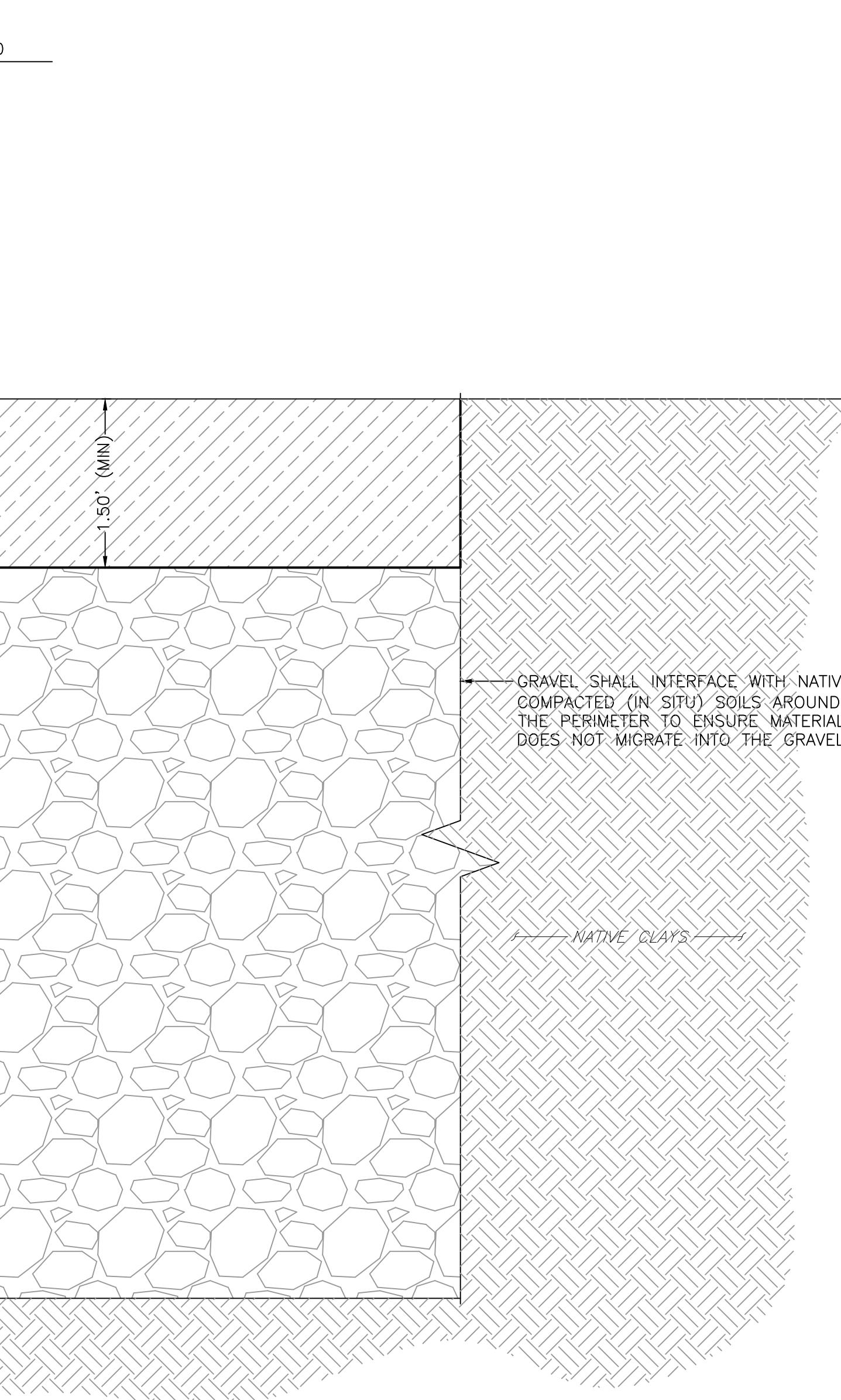
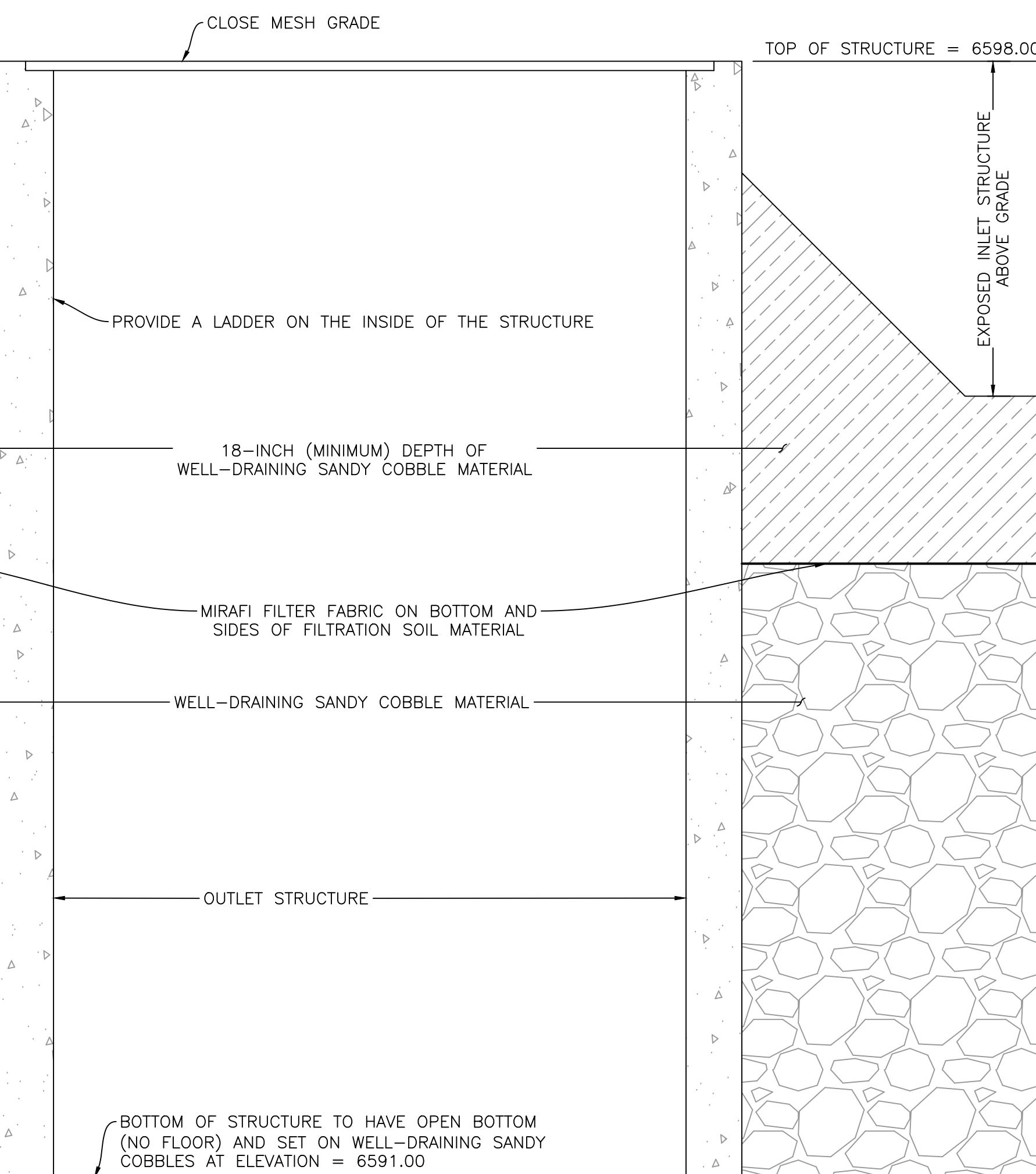
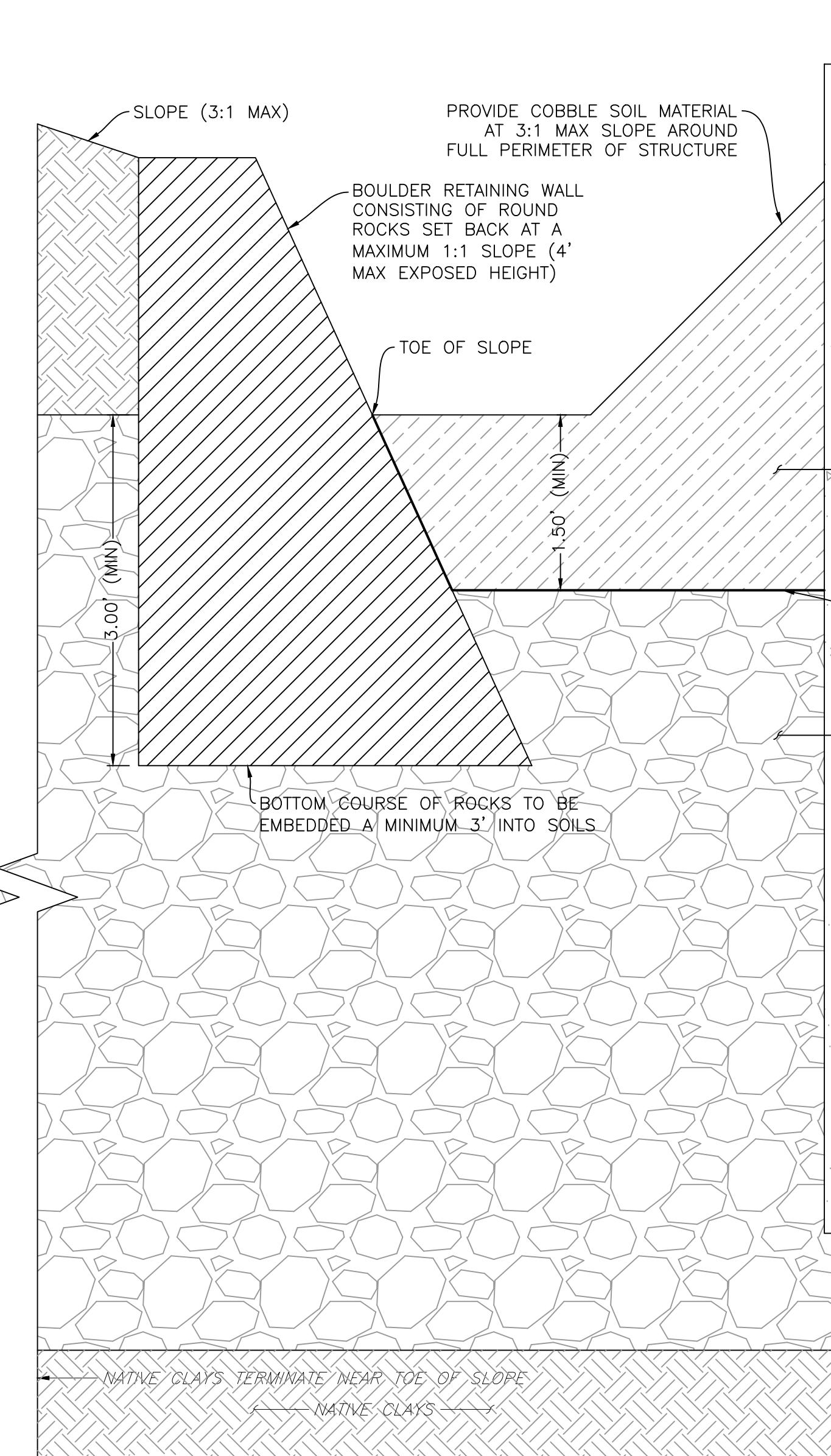
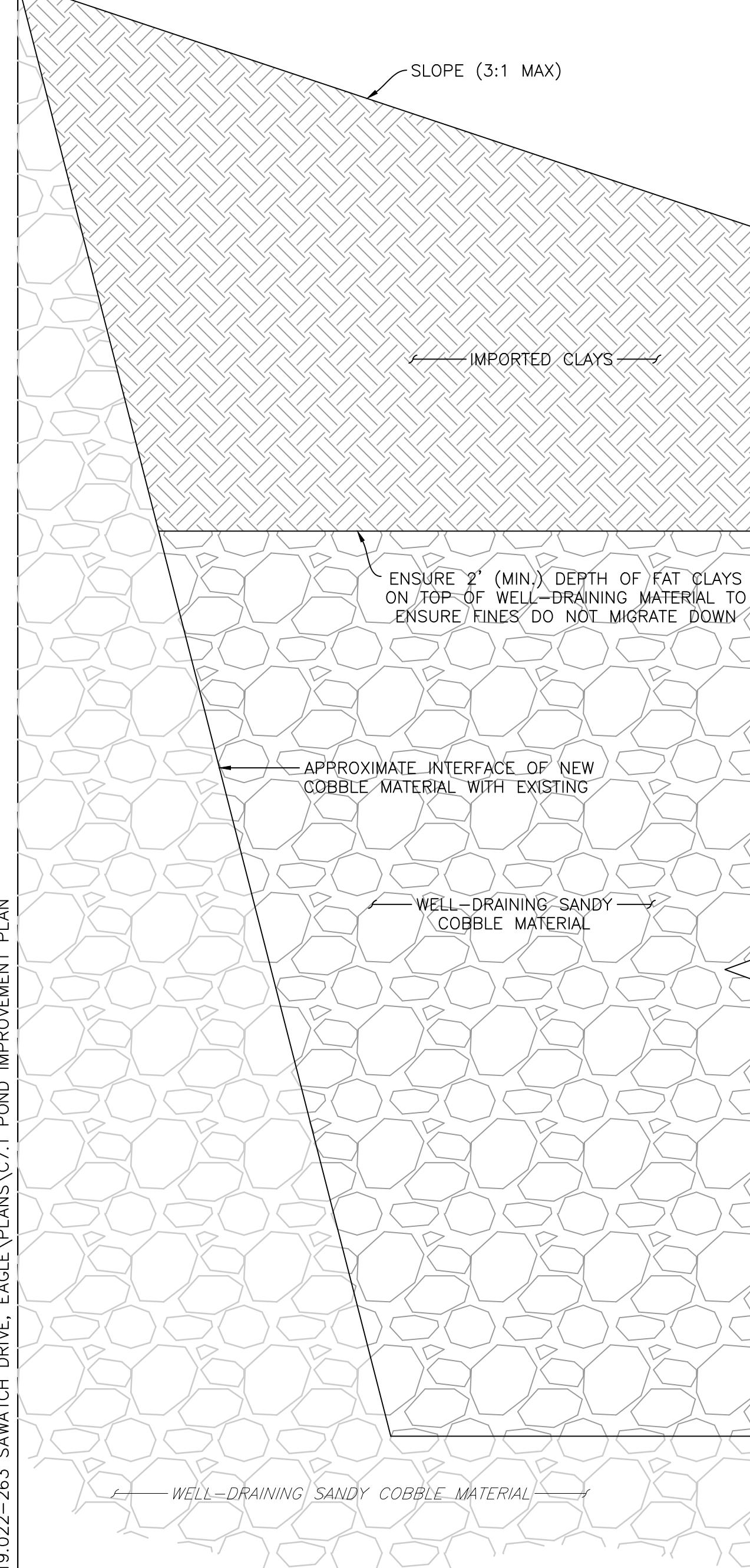
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MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES
PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

D:\DROPOBOX\PROJECI\ES\19.022-263 SAWITCH DRIVE\ANS\ANS\& PROFILE



SPILLWAY ELEVATION = 6612.5±

25-YEAR WATER SURFACE ELEVATION = 6607.50
 VOLUME = 3.3 ACRE-FEET



NOTES:

1. PROJECT'S GEOTECHNICAL ENGINEER SHALL BE ON-SITE TO CONFIRM WHEN SUFFICIENT EXCAVATION HAS OCCURRED AND THAT NATIVE, WELL-DRAINING COBBLE SOILS HAVE BEEN EXPOSED.
2. THE BIOFILTRATION MATERIAL SHALL BE EXCAVATED AND REPLACED ONCE THE SURFACE OF THE MATERIAL IS WITHIN 18 INCHES FROM THE TOP OF THE INLET BOX, OR WHEN STANDING WATER IS OBSERVED IN THE BOTTOM OF THE POND.

SECTION A-A OF BIOFILTRATION AREA AT BOTTOM OF DETENTION POND

N.T.S.

MIXED-USE DEVELOPMENT
 263 SAWATCH DRIVE
 LOT 2, 700 CHAMBERS SUBDIVISION
 EAGLE, COLORADO

YARNELL CONSULTING &
 CIVIL DESIGN, LLC
 P.O. BOX 3901 EAGLE, COLORADO 81631
 (970) 323-7008

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DESIGN BY: J. YARNELL
 DRAWN BY: J. YARNELL
 REVIEWED BY: J. YARNELL
 PROJECT NO.: 19.022
 DATE: 8/23/2023

NO. ISSUE / REVISION
 1. SCHEMATIC DESIGN (NO CONST.)
 2. DEVELOPMENT PERMIT SUBMISSION
 3. GRAVING PERMIT SUBMITTAL
 4. DEVELOPMENT PERMIT RESUBMITTAL
 5.

DATE
 4/29/23
 5/24/23
 5/24/23
 8/22/23
 8/23/2023

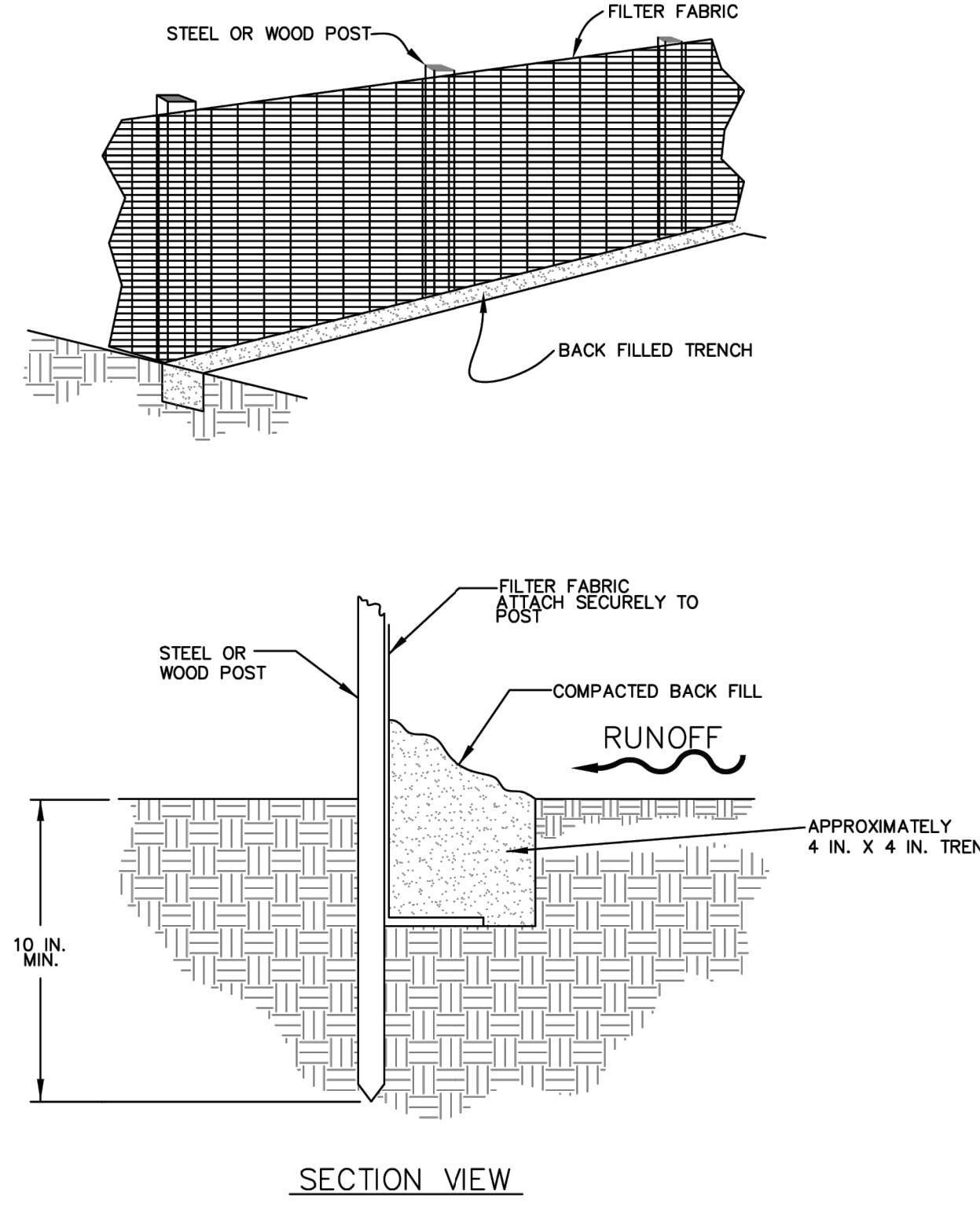
SHEET TITLE
 POND
 IMPROVEMENT
 PLAN

SHEET NO.
 C7.1

DETAILS TO BE INCLUDED IN A BUILDING PERMIT SUBMITTAL:

- 16' CONCRETE PAN
- 3' CONCRETE PAN
- FLARED END SECTION
- DOWNSPOUT DISCHARGE

DESIGN BY: DRAWN BY: REVIEWED BY: PROJECT NO.: DATE:	J. YARNELL J. YARNELL J. YARNELL 19.022 8/23/2023	NO. ISSUE / REVISION 1. SCHEMATIC DESIGN (NO CONST.) 2. DEVELOPMENT PERMIT SUBMISSION 3. GRADING PERMIT SUBMITTAL 4. DEVELOPMENT PERMIT RESUBMITTAL 5. DATE: 8/23/2023	DATE 4/29/23 5/24/23 5/24/23 8/22/23 JJY JJY JJY JJY JJY	NAME JJY JJY JJY JJY JJY	MIXED-USE DEVELOPMENT 263 SAWATCH DRIVE LOT 2, 700 CHAMBERS SUBDIVISION EAGLE, COLORADO
SHEET TITLE DETAILS					



SECTION VIEW

GENERAL NOTES:

1. THE MAXIMUM TRIBUTARY AREA IS LIMITED TO 0.25 ACRES PER 100 FEET OF FENCE.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE HALF THE HEIGHT OF THE FENCE HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE.

Title: Detail Silt Fence
 Project: Public Works Manual
 Drawn: JB
 Checked:
 Sheet: Drainage.dwg

Date: 1/18/208

D4



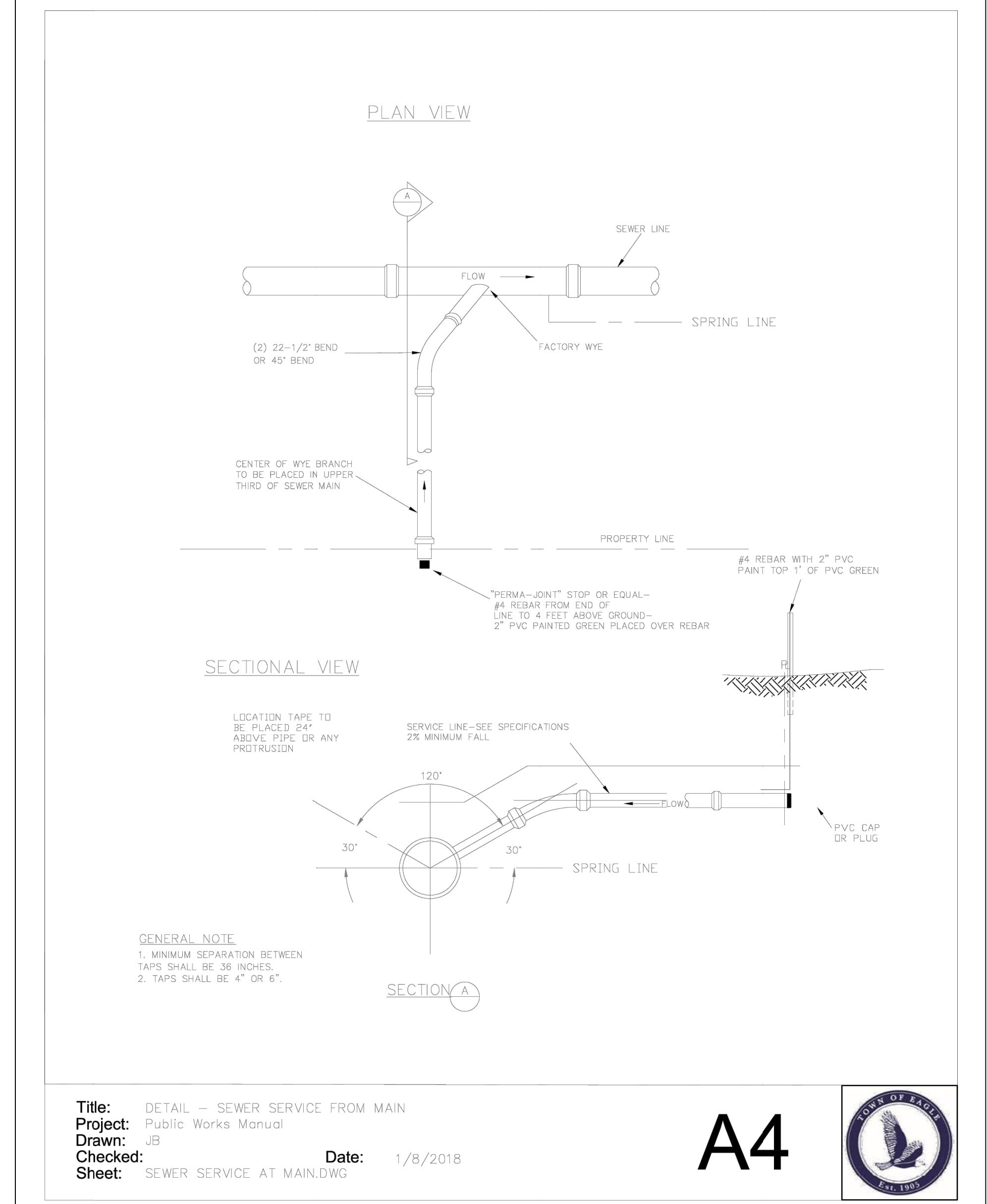
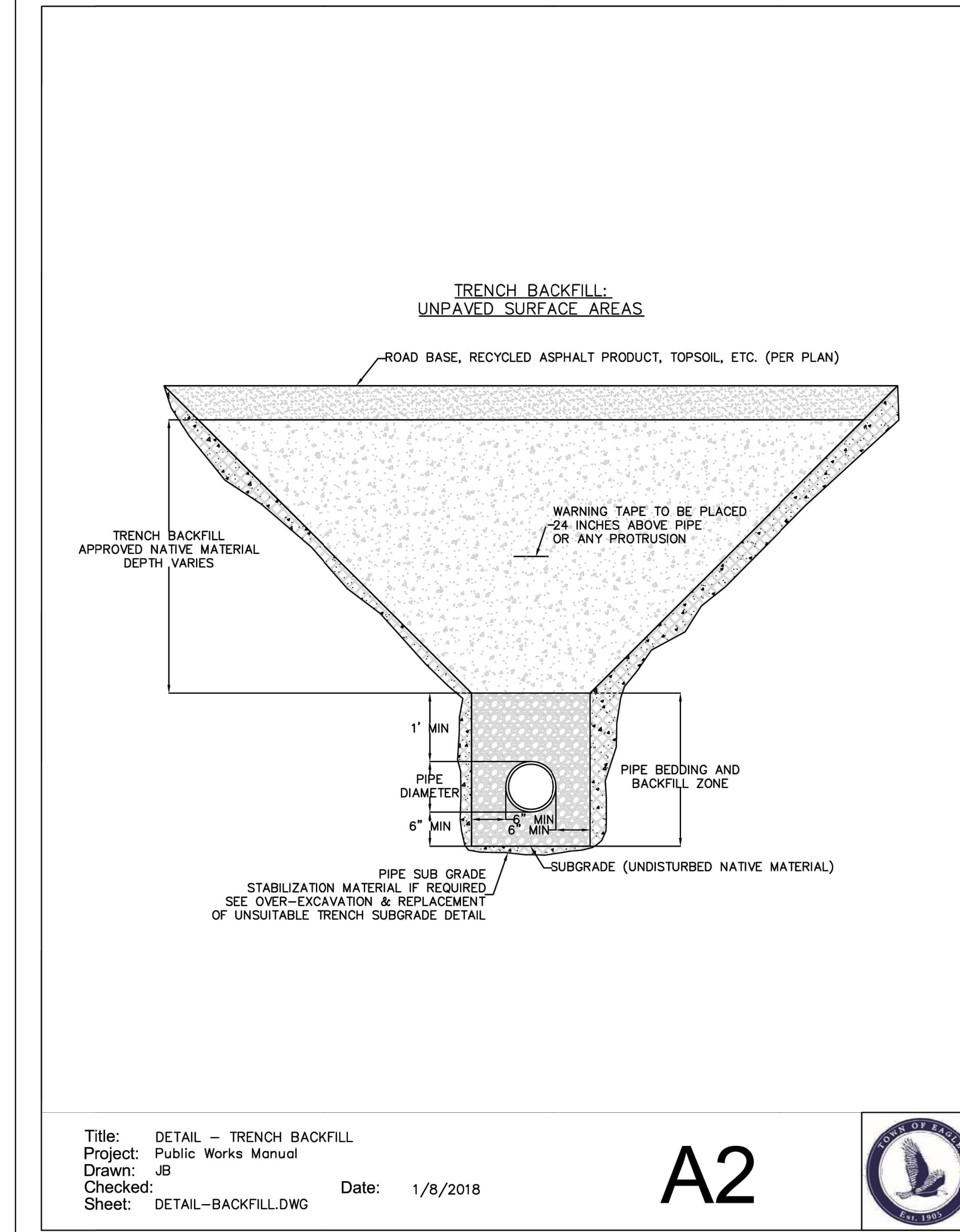
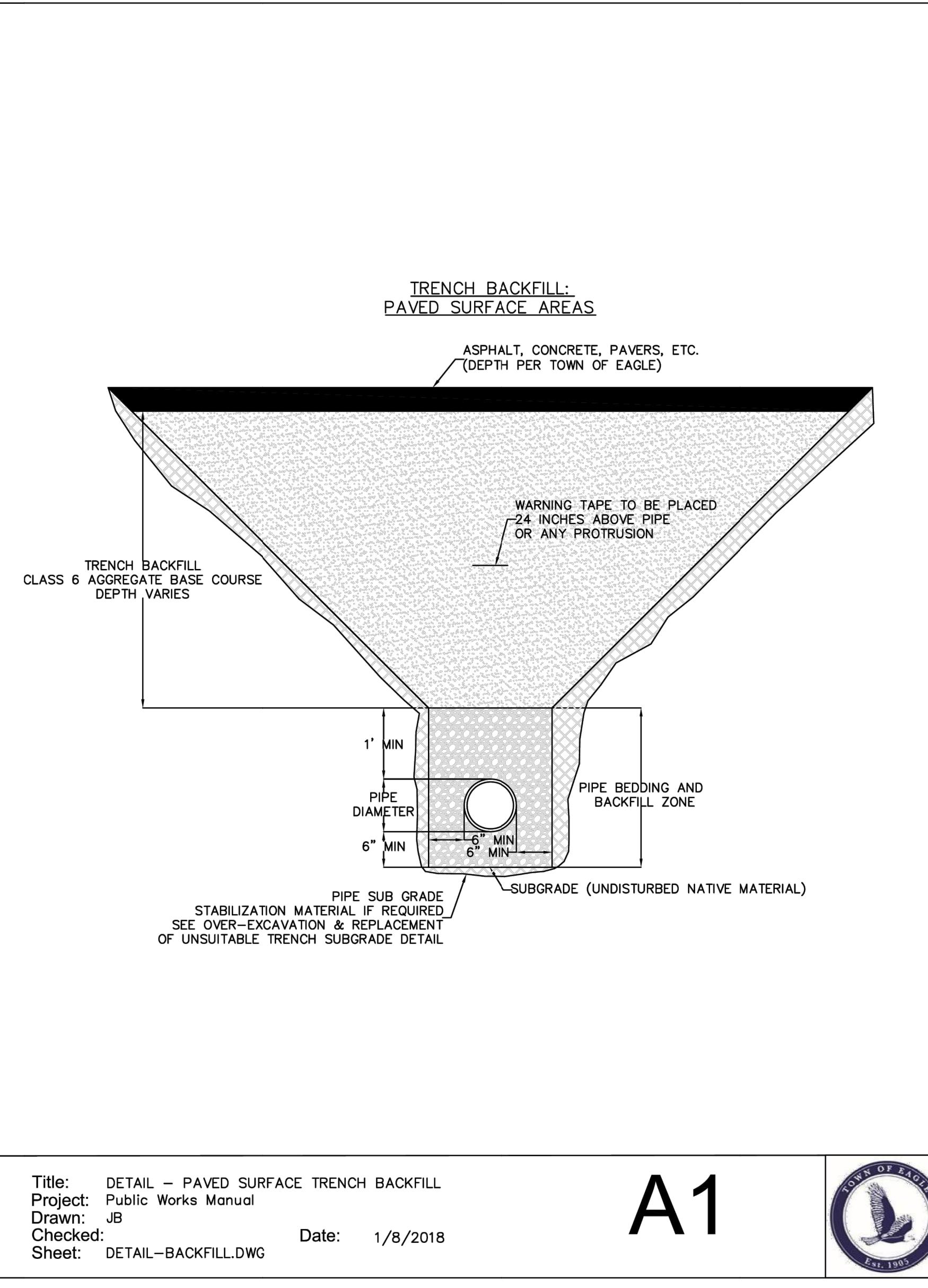
MIXED-USE DEVELOPMENT
 263 SAWATCH DRIVE
 LOT 2, 700 CHAMBERS SUBDIVISION
 EAGLE, COLORADO

YARNELL CONSULTING &
 CIVIL DESIGN, LLC
 P.O. BOX 3901 EAGLE, COLORADO 81631
 (970) 323-7008

DESIGN BY:	J. YARNELL	NO.	ISSUE / REVISION	DATE	NAME
DRAWN BY:	J. YARNELL	1.	SCHEMATIC DESIGN (NO CONST.)	4/29/23	JY
REVIEWED BY:	J. YARNELL	2.	DEVELOPMENT PERMIT SUBMISSION	5/24/23	JY
PROJECT NO.:	19.022	3.	GRAADING PERMIT SUBMITTAL	5/24/23	JY
		4.	DEVELOPMENT PERMIT RESUBMITTAL	8/22/23	JY
		5.		8/23/2023	JY

SHEET TITLE
 EROSION
 CONTROL
 DETAILS

SHEET NO.
 C10.1

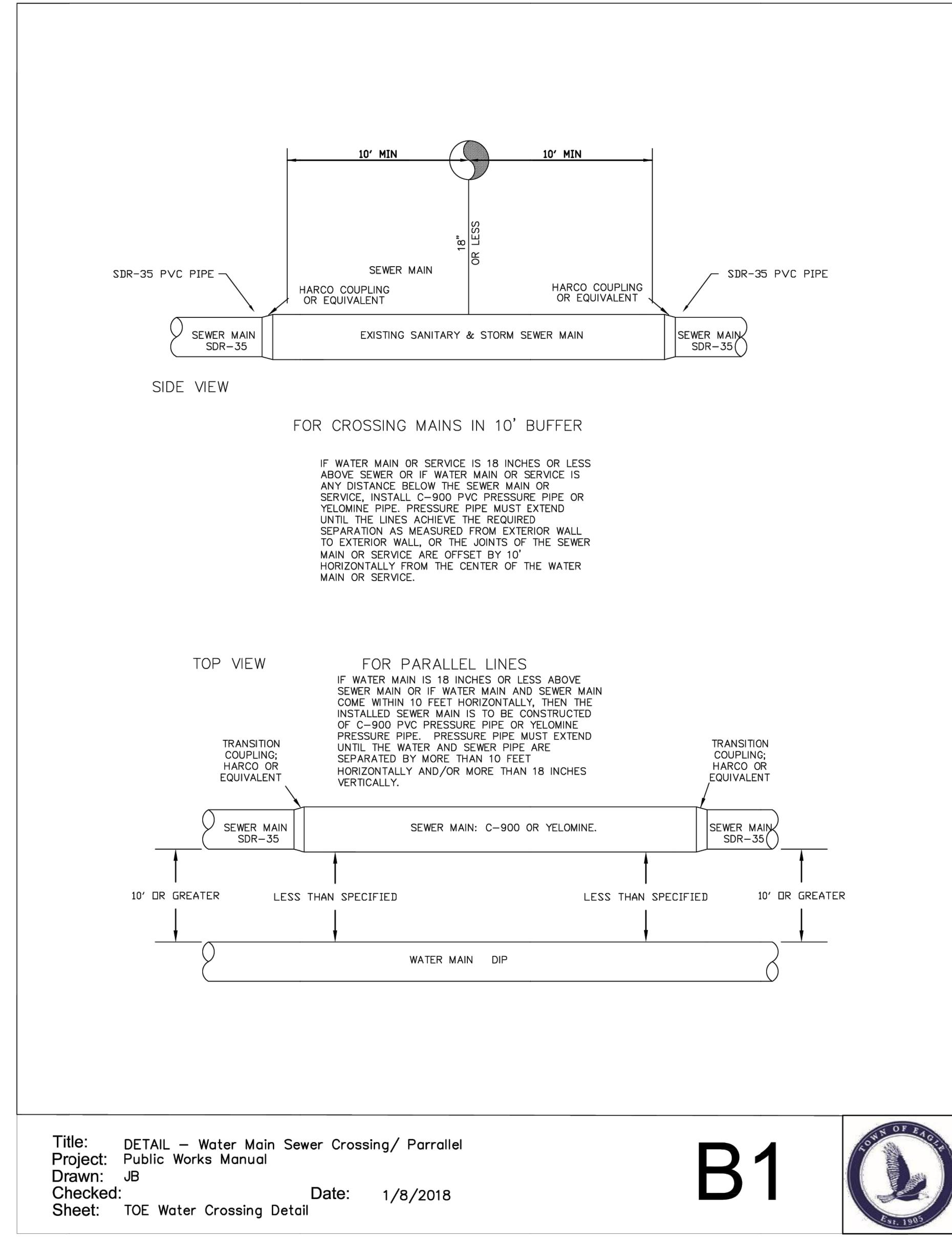


SHEET TITLE DETAILS - SANITARY SEWER	
SHEET NO. C11.1	
DESIGN BY: J. YARNELL DRAWN BY: J. YARNELL REVIEWED BY: J. YARNELL PROJECT NO.: 19.022 DATE: 8/23/2023	NAME J.Y J.Y J.Y J.Y J.Y
NO. ISSUE / REVISION 1. SCHEMATIC DESIGN (NO CONST.) 2. DEVELOPMENT PERMIT SUBMISSION 3. GRAVING PERMIT SUBMITTAL 4. DEVELOPMENT PERMIT RESUBMITTAL 5. DATE: 8/23/2023	DATE 4/29/23 5/24/23 5/24/23 8/22/23 8/23/2023

MIXED-USE DEVELOPMENT
263 SAWATCH DRIVE
LOT 2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

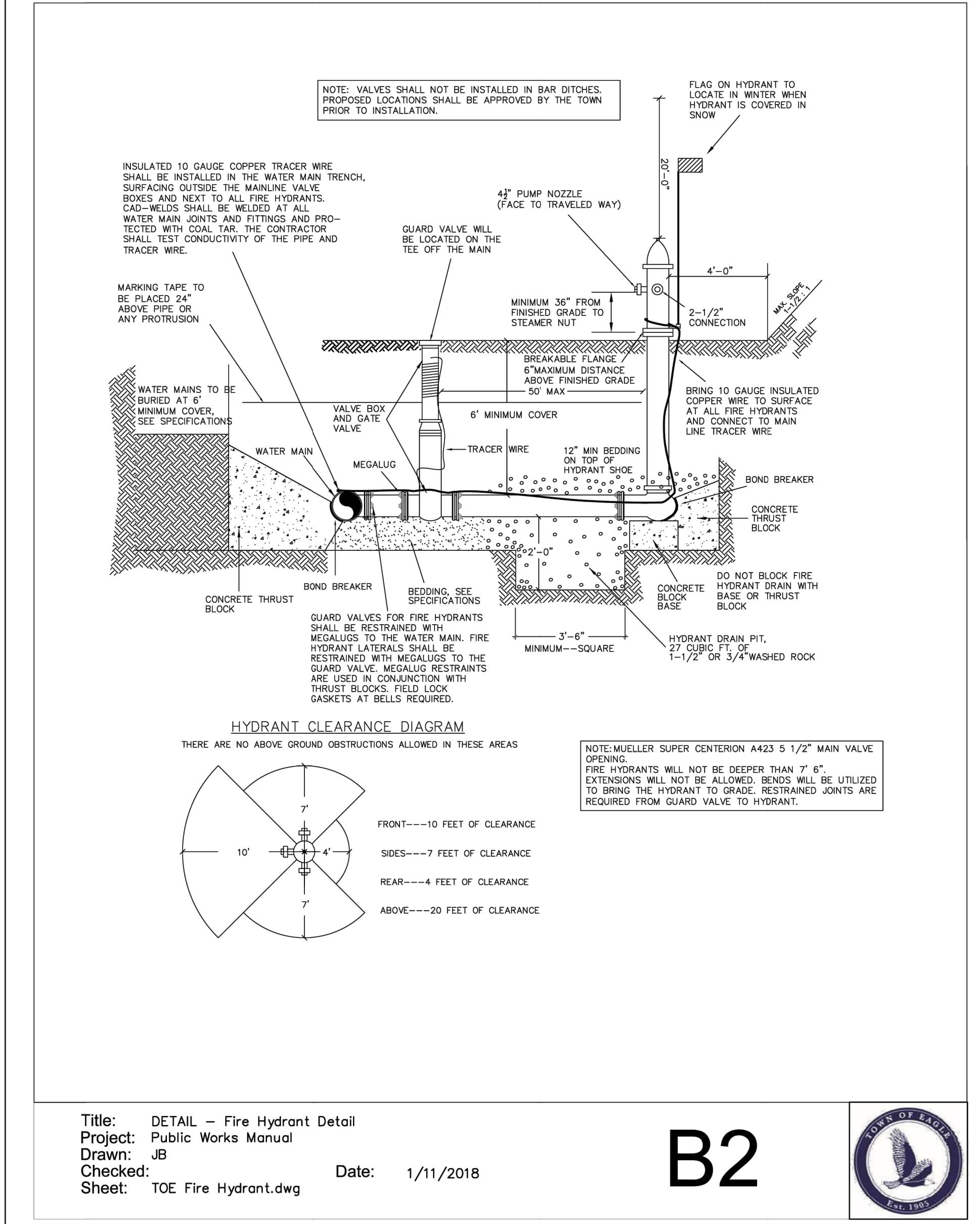
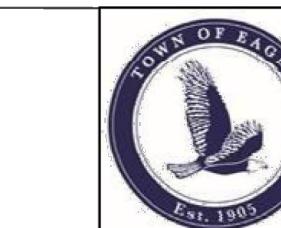
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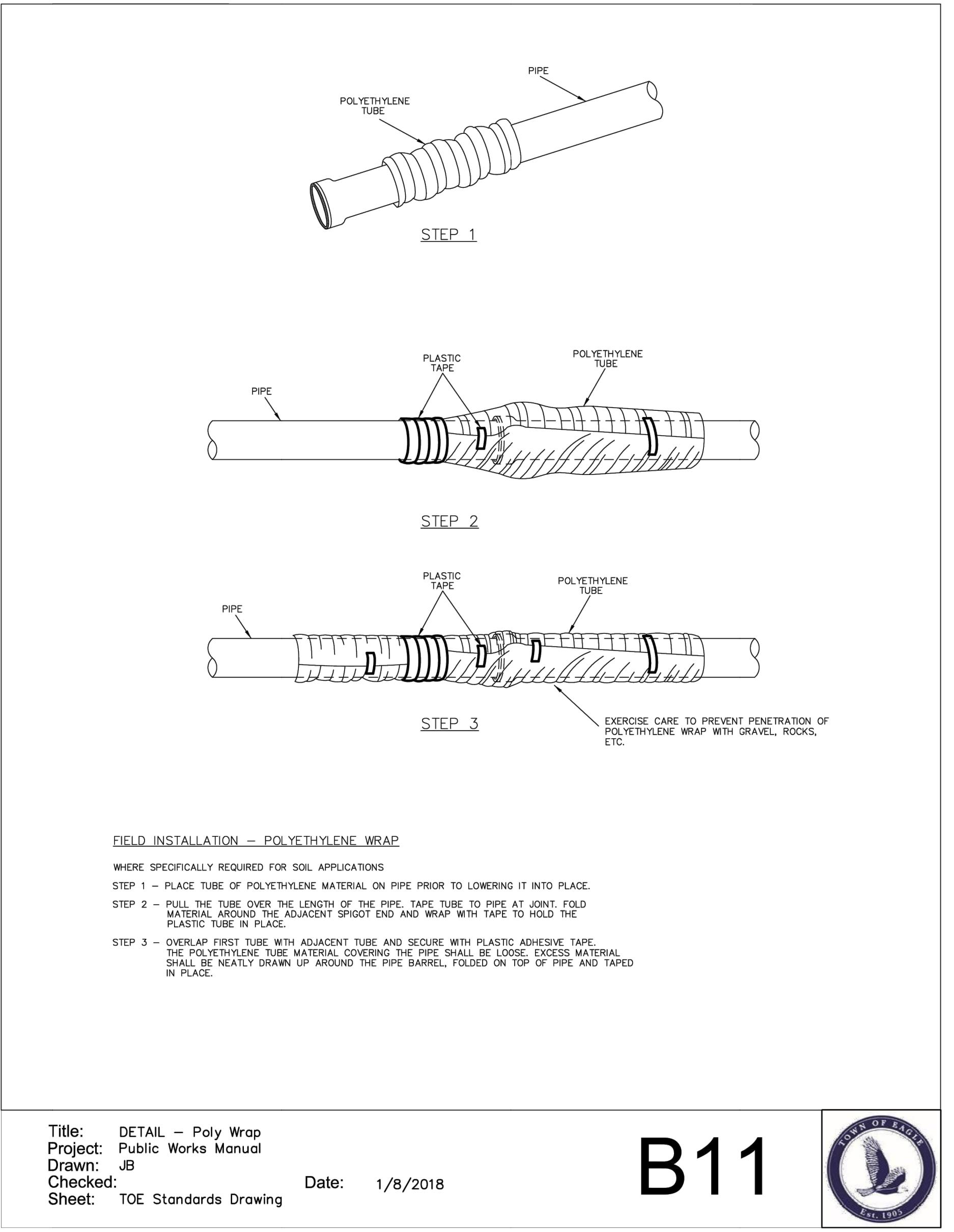
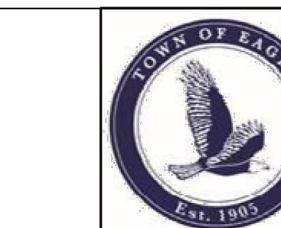
Title: DETAIL - Water Main Sewer Crossing/ Parallel
Project: Public Works Manual
Drawn: JB
Checked: Date: 1/8/2018
Sheet: TOE Water Crossing Detail

B1



Title: DETAIL - Fire Hydrant Detail
Project: Public Works Manual
Drawn: JB
Checked: Date: 1/11/2018
Sheet: TOE Fire Hydrant.dwg

B2



Title: DETAIL - Poly Wrap
Project: Public Works Manual
Drawn: JB
Checked: Date: 1/8/2018
Sheet: TOE Standards Drawing

B11



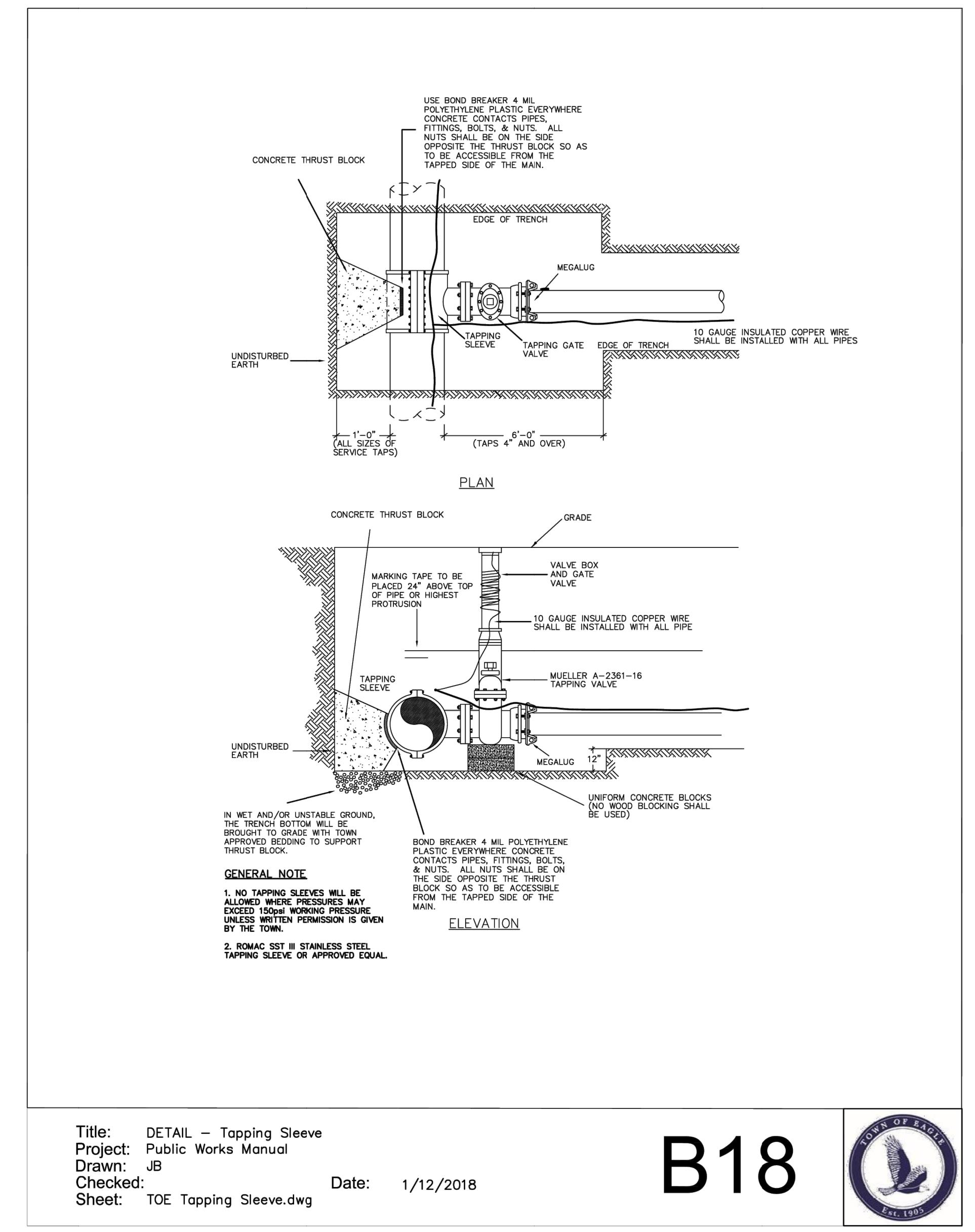
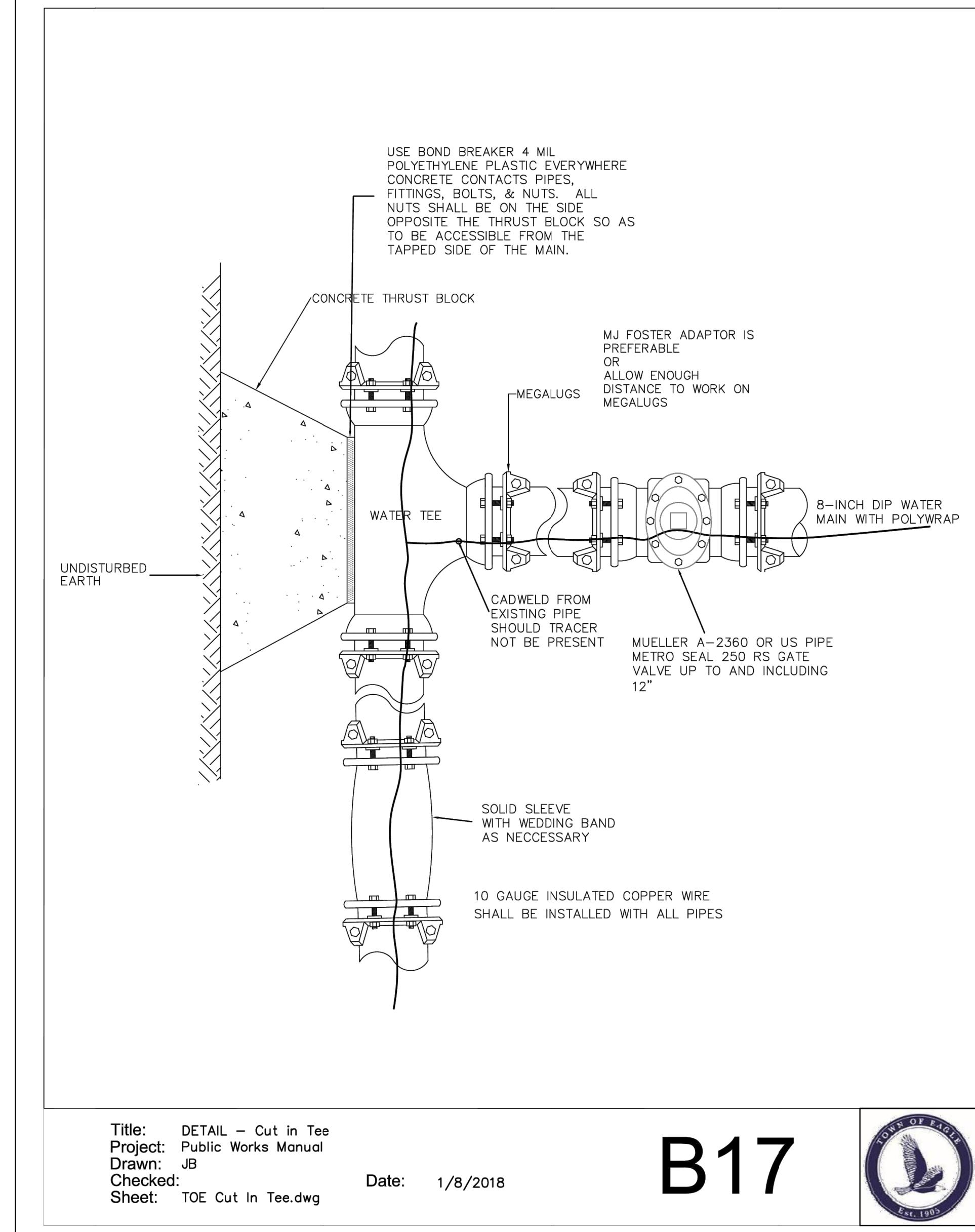
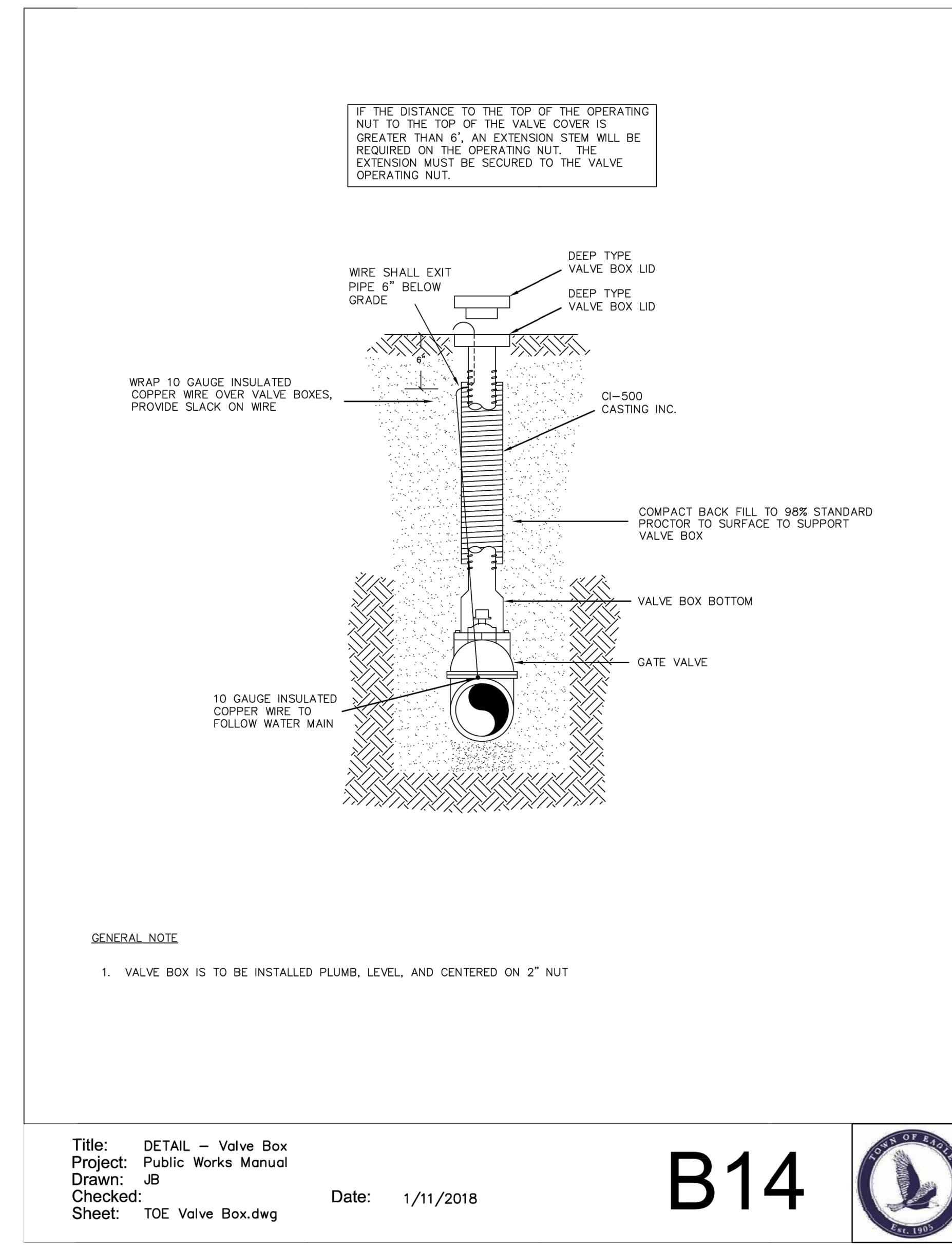
YARNELL CONSULTING & CIVIL DESIGN, LLC
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MIXED-USE DEVELOPMENT
263 SAWATCH DRIVE
LOT 2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

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SHEET TITLE
DETAILS - WATER

SHEET NO.
C12.1



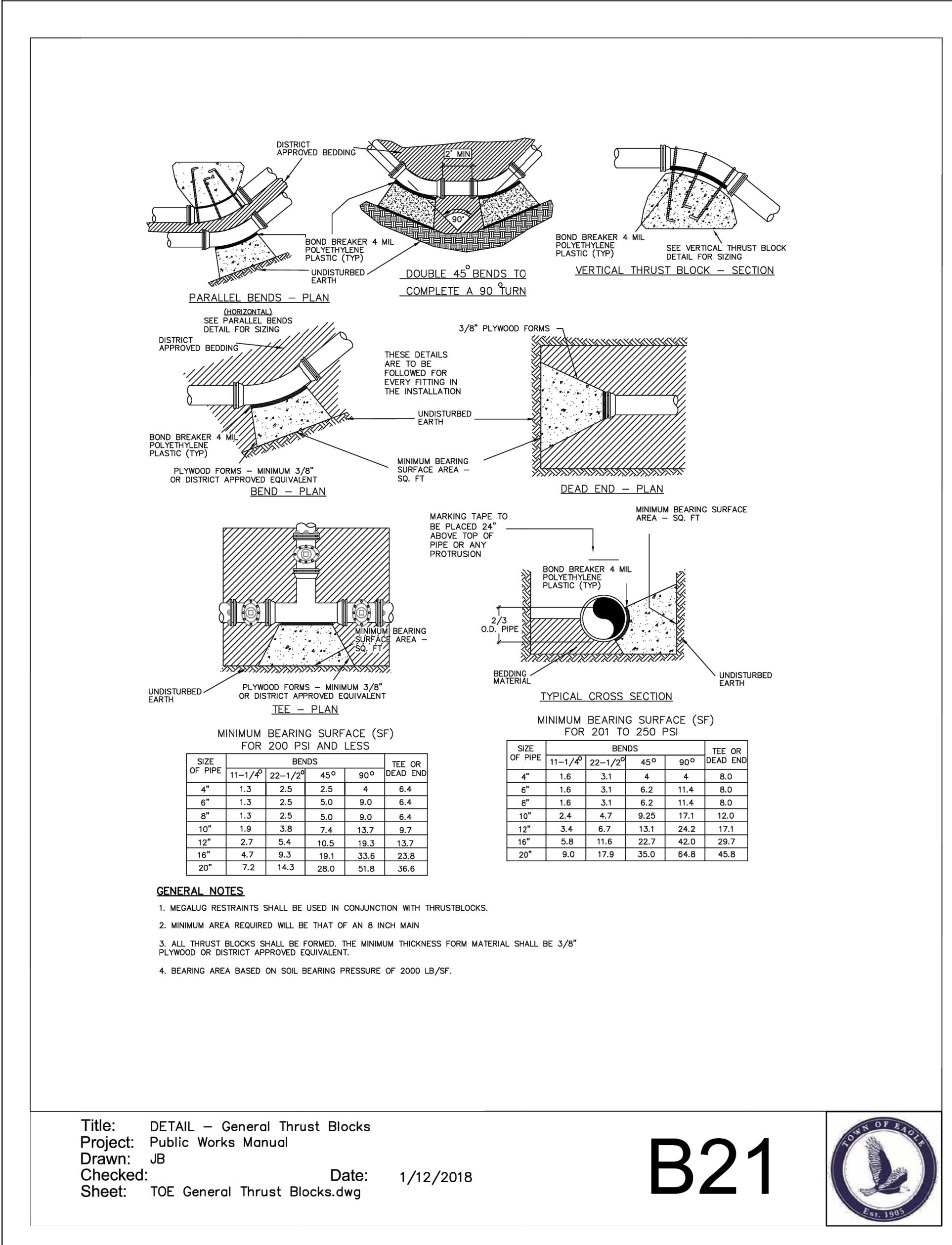
DESIGN BY: J. YARNELL	NO. ISSUE / REVISION	DATE	NAME
DRAWN BY: J. YARNELL	1. SCHEMATIC DESIGN (NO CONST.)	4/29/23	JY
REVIEWED BY: J. YARNELL	2. DEVELOPMENT PERMIT SUBMISSION	5/24/23	JY
PROJECT NO.: 19.022	3. GRADING PERMIT SUBMITTAL	5/24/23	JY
DATE: 8/23/2023	4. DEVELOPMENT PERMIT RESUBMITTAL	8/22/23	JY
	5.		

SHEET TITLE
DETAILS - WATER

SHEET NO.
C12.2

MIXED-USE DEVELOPMENT
263 SAWATCH DRIVE
LOT 2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

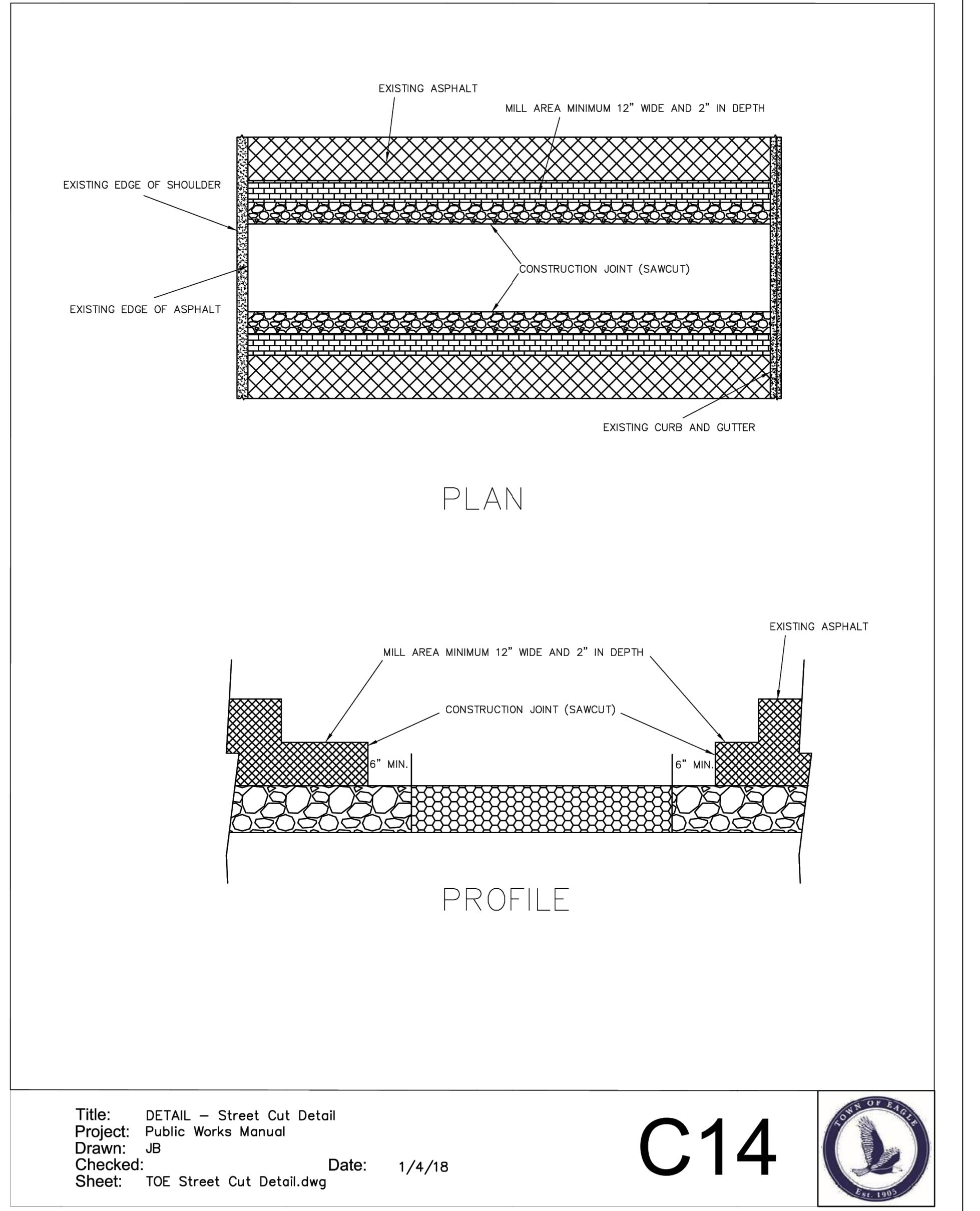
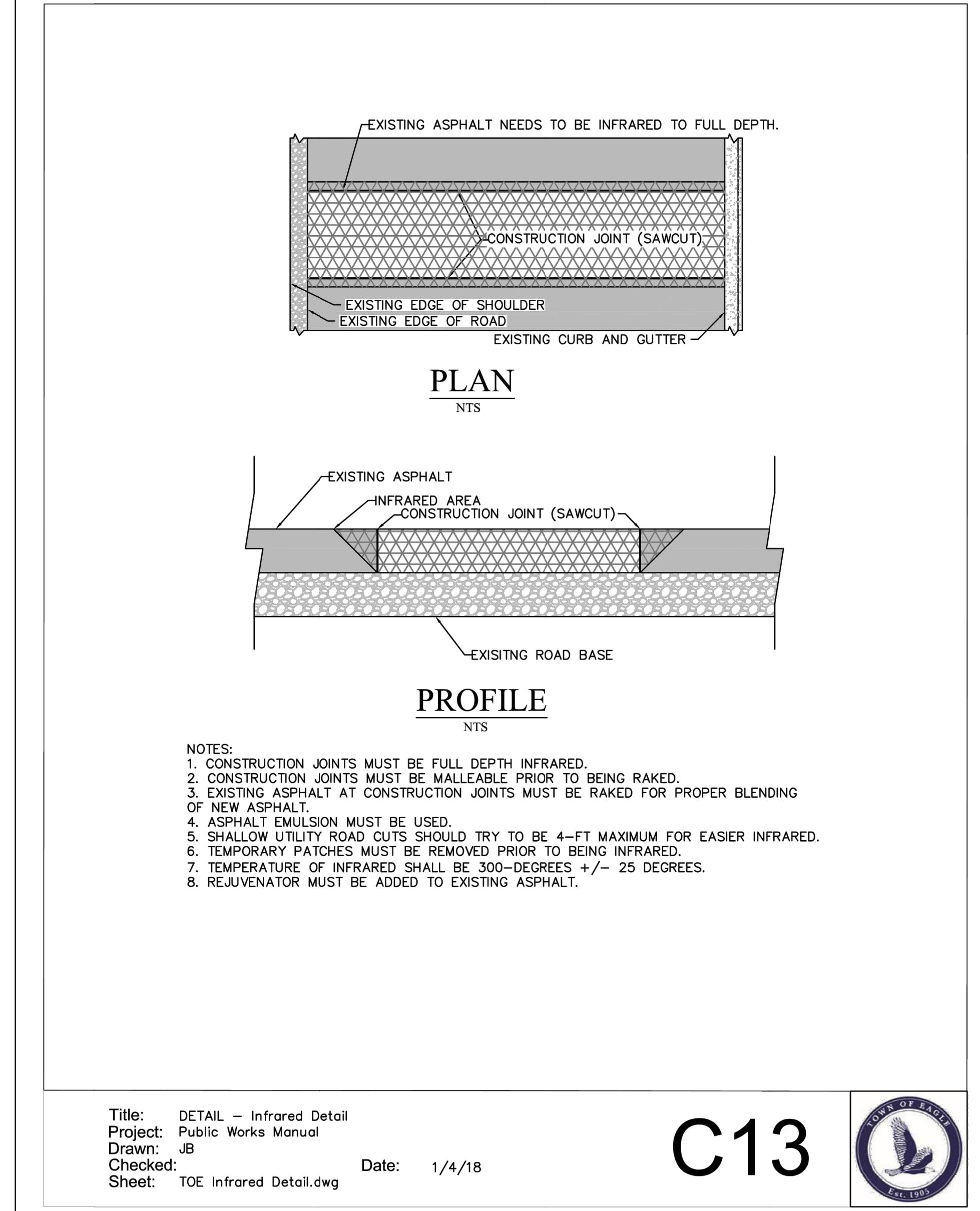
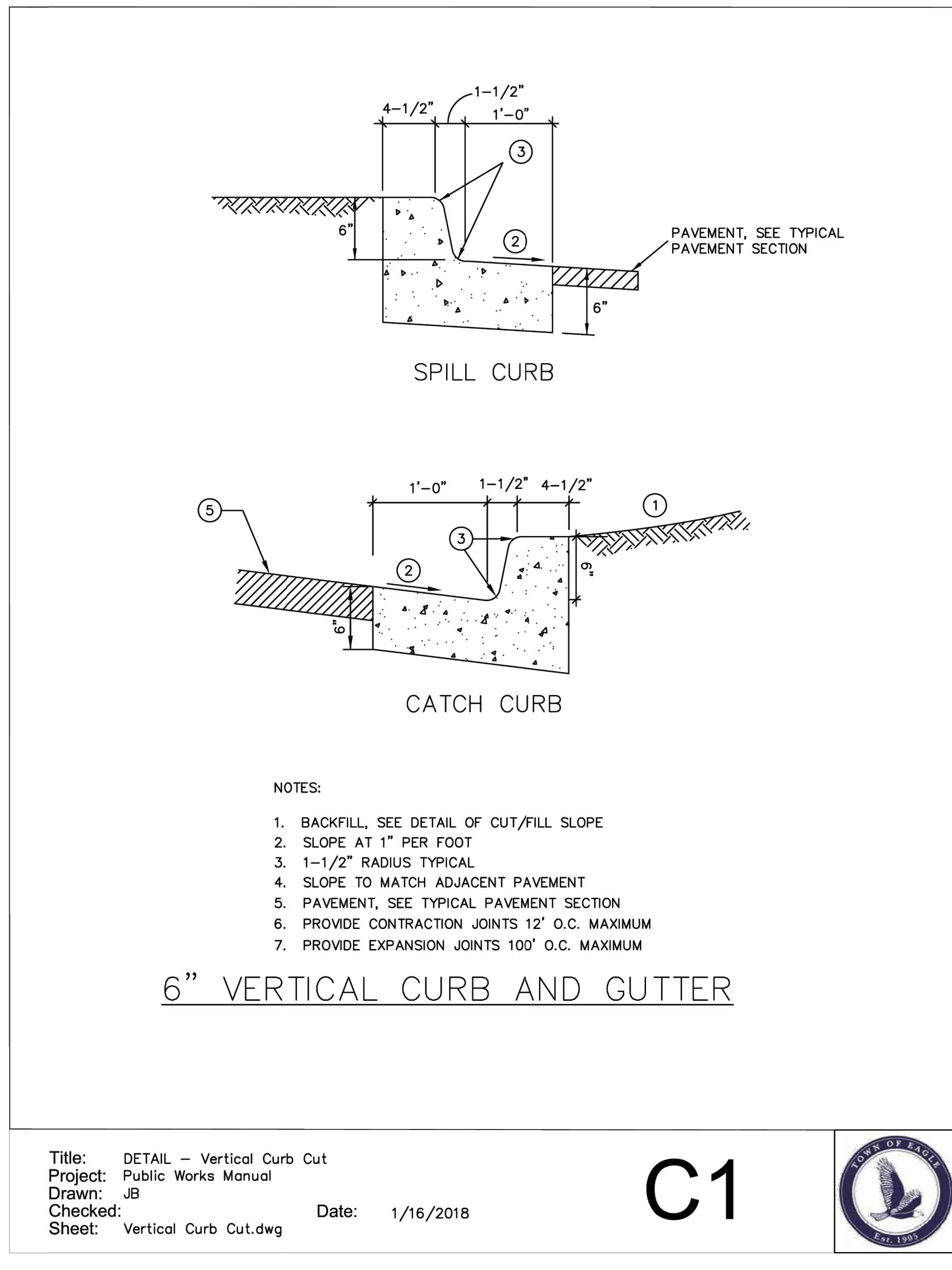
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MIXED-USE DEVELOPMENT
 263 SAWATCH DRIVE
 LOT 2, 700 CHAMBERS SUBDIVISION
 EAGLE, COLORADO

SHEET TITLE
 DETAILS - WATER
SHEET NO.
 C12.3



MIXED-USE DEVELOPMENT
263 SAWATCH DRIVE
LOT 2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

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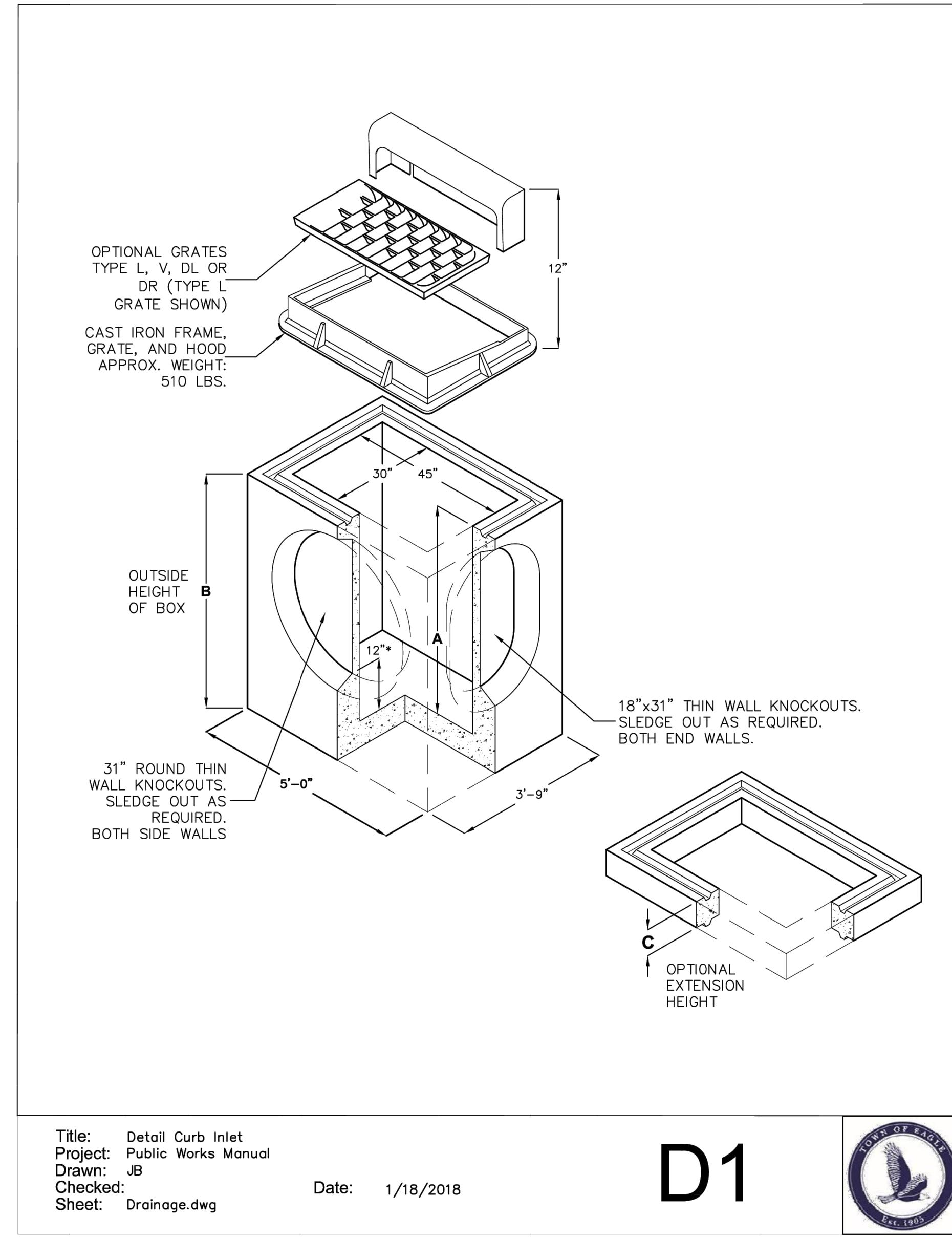
SHEET TITLE
DETAILS - ROAD

SHEET NO.
C13.1

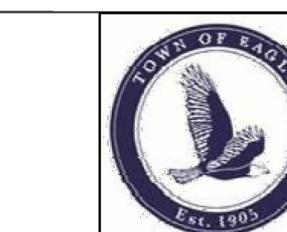
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REPRESENTATION & MODELS THEREOF ARE
PROPRIETARY & CANNOT BE COPIED
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DESIGN BY: J. YARNELL
DRAWN BY: J. YARNELL
REVIEWED BY: J. YARNELL
PROJECT NO.: 19.022
DATE: 8/23/2023

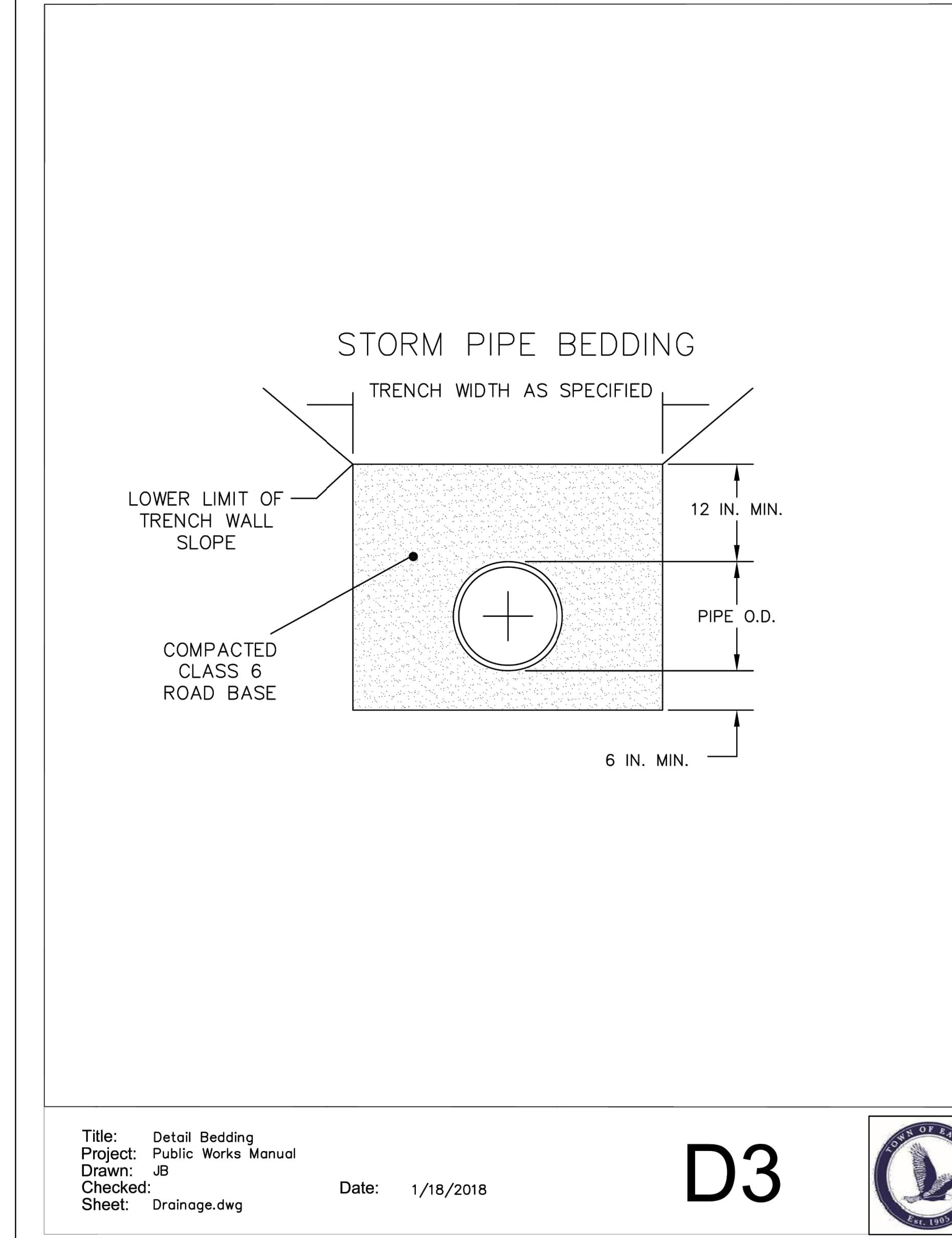
NO. ISSUE / REVISION
1. SCHEMATIC DESIGN (NO CONST.)
2. DEVELOPMENT PERMIT SUBMISSION
3. GRADING PERMIT SUBMITTAL
4. DEVELOPMENT PERMIT RESUBMITTAL
5. DATE: 4/29/23
5/24/23
5/24/23
8/22/23
8/22/23



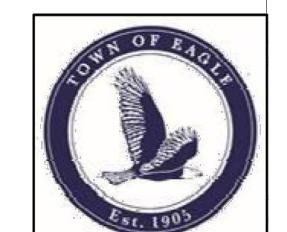
D1



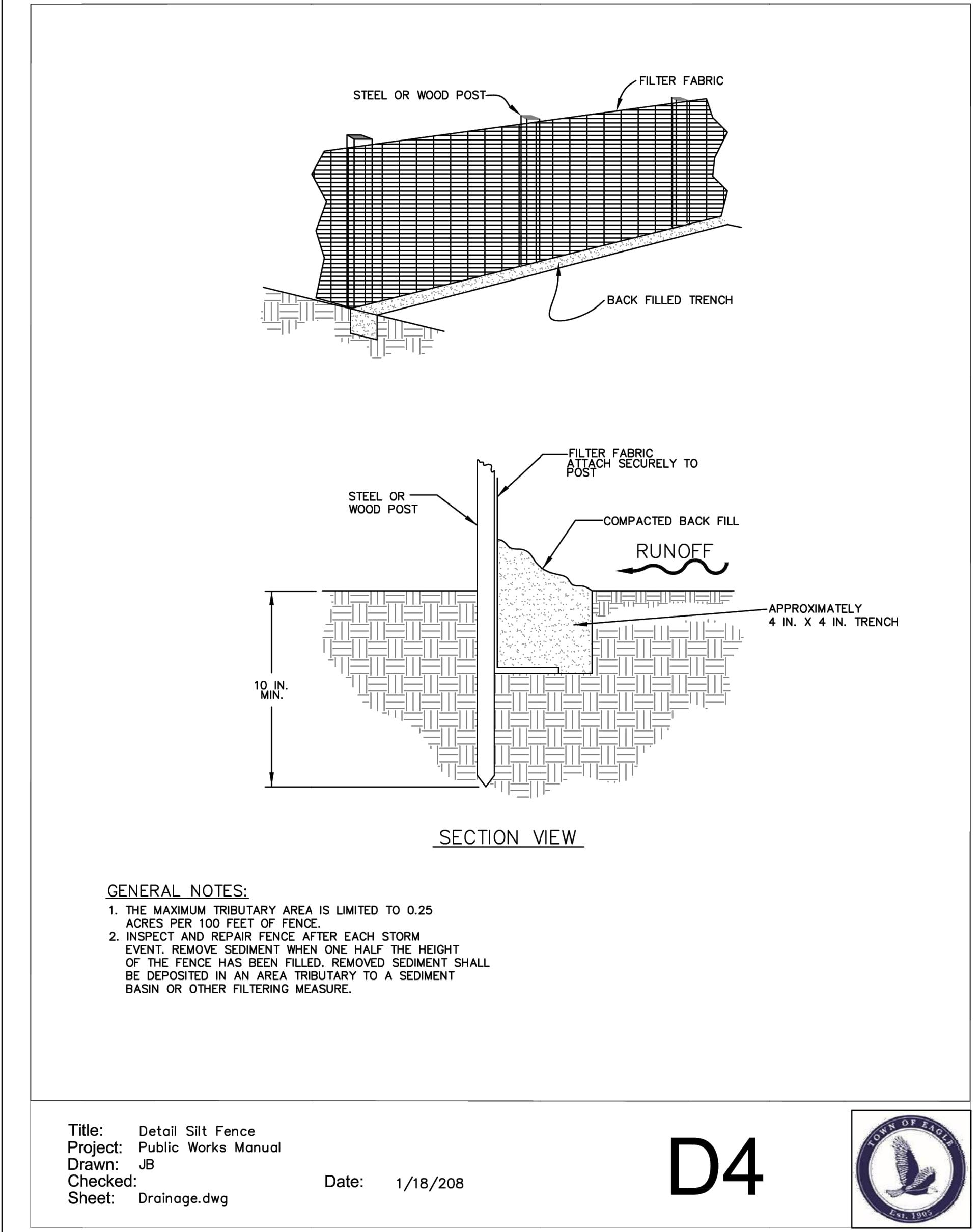
Title: Detail Curb Inlet
Project: Public Works Manual
Drawn: JB
Checked: JB
Sheet: Drainage.dwg
Date: 1/18/2018



D3



Title: Detail Bedding
Project: Public Works Manual
Drawn: JB
Checked: JB
Sheet: Drainage.dwg
Date: 1/18/2018



D4



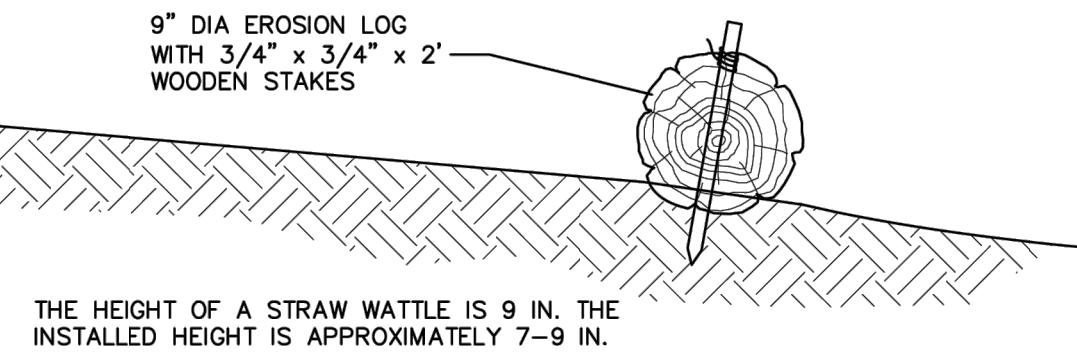
Title: Detail Silt Fence
Project: Public Works Manual
Drawn: JB
Checked: JB
Sheet: Drainage.dwg
Date: 1/18/2018

YARNELL CONSULTING & CIVIL DESIGN, LLC
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MIXED-USE DEVELOPMENT
263 SAWATCH DRIVE
LOT 2, 700 CHAMBERS SUBDIVISION
EAGLE, COLORADO

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SHEET TITLE
DETAILS - STORM SEWER
SHEET NO.
C14.1



EROSION LOG WATTLE DETAIL

N.T.S.

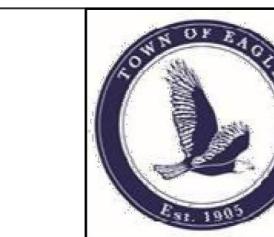
This sediment barrier is designed for low surface flows not to exceed 1 cfs for small areas, slope flatter than 3:1 or short slopes, and where silt fences are not practicable. Straw Wattles can also be installed on contour on steeper slopes to reduce surface, spread water flow and capture sediment. The following is a brief description of the Straw Wattles, their uses and installation.

1. The height of a Straw Wattle is 9 in. The installed height is approximately 5 – 7 in. The standard length of Straw Wattles is 25 ft., however other lengths will be made upon request.
2. Straw Wattles can be installed on contour of slope, with a slight downslope angle at the end of each row to allow for slow drainage during heavy precipitation. They can also be used at the top of slopes to prevent sheeting over the edge, and they can be used at the toe of slopes. Straw Wattles can also be used along sidewalks and curbs and around storm drains and inlets to prevent sediment pollution.
3. Straw Wattles can be used to replace silt fences, straw bale dikes and sand bag barriers. They can also be placed in drainage swales to slow flows and capture sediment: they can be used as level spreaders to prevent concentrated flow, and in place of earthen berms or dikes.
4. Straw Wattles should be installed on surface.
5. Lay the Wattle in the trench and stake with 3/4" X 3/4" X 18" or 24" wood stakes at each end and 4-foot on center. When installing running lengths, Straw Wattle ends should be buttoned firmly together to prevent leakage, and securely staked together but overlapping is acceptable.
6. When used on slopes, Straw Wattles do not require removal and can be abandoned in place. However, when used for temporary purposes such as along sidewalks or curbs, or around storm drains, they can be removed and reused.
7. Wattles installed on slopes that are steeper than 2:1 shall be spaced at 10' intervals rather than 20' intervals.

Title: Erosion Log
 Project: Public Works Manual
 Drawn: JB
 Checked:
 Sheet: Erosion Log.dwg

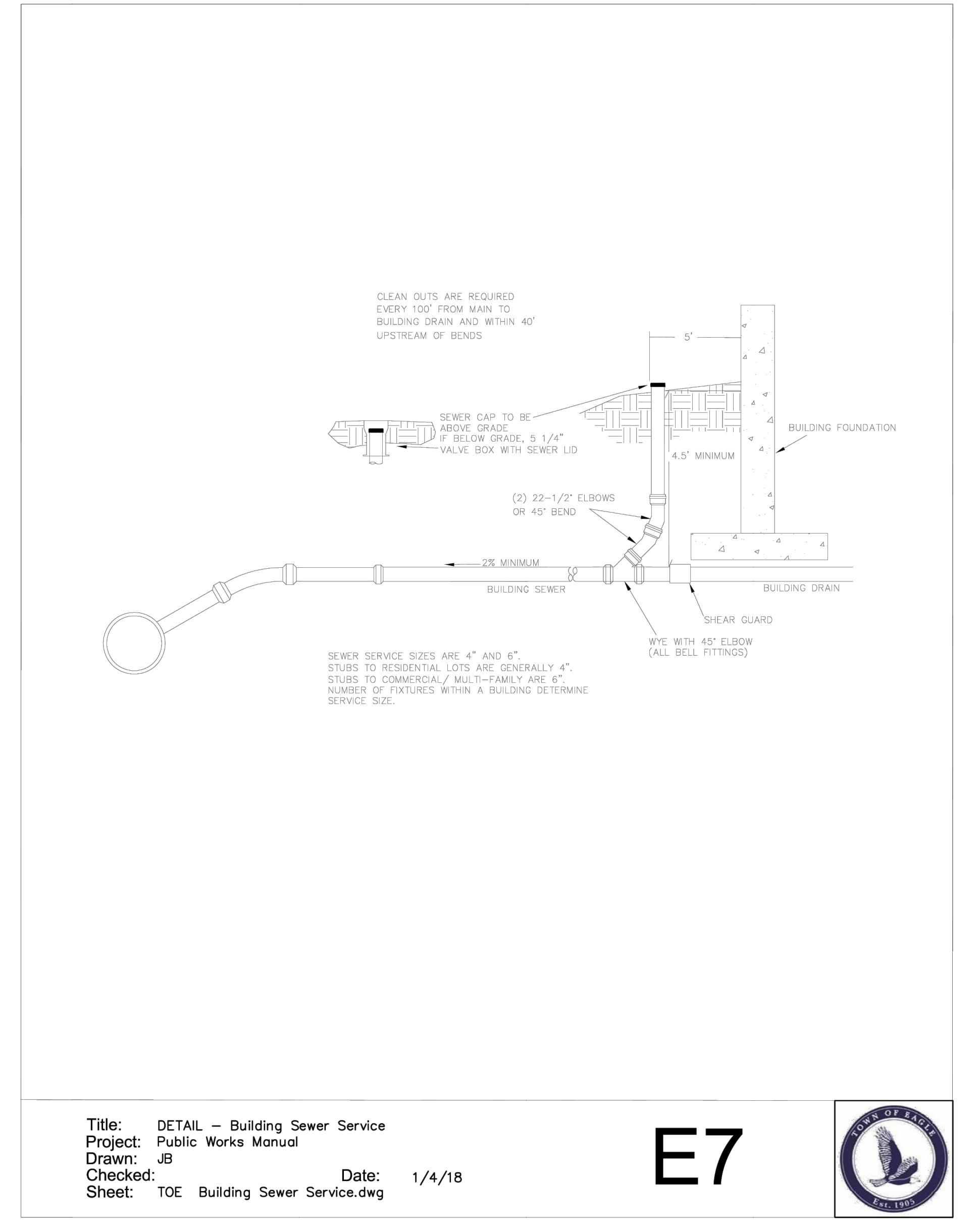
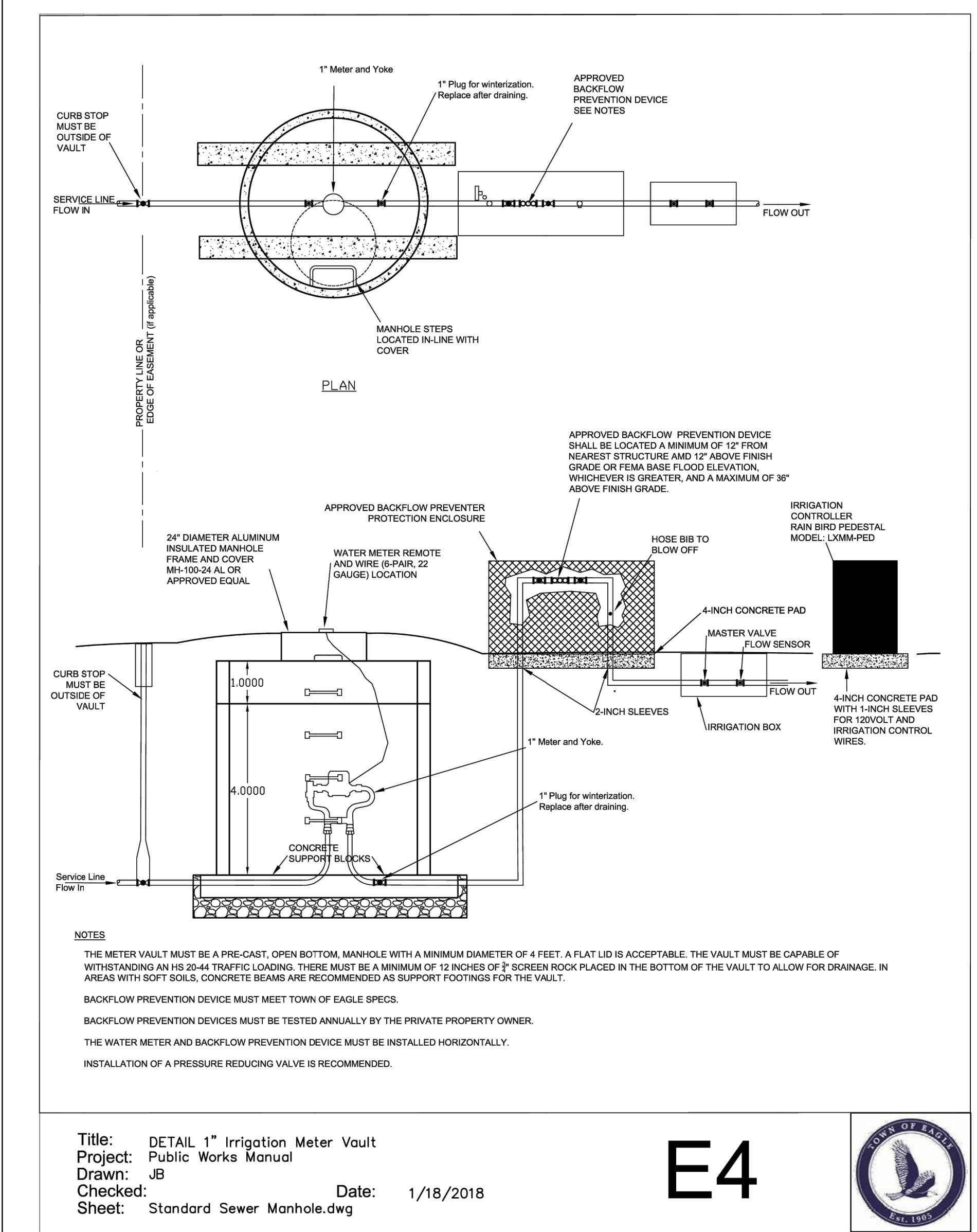
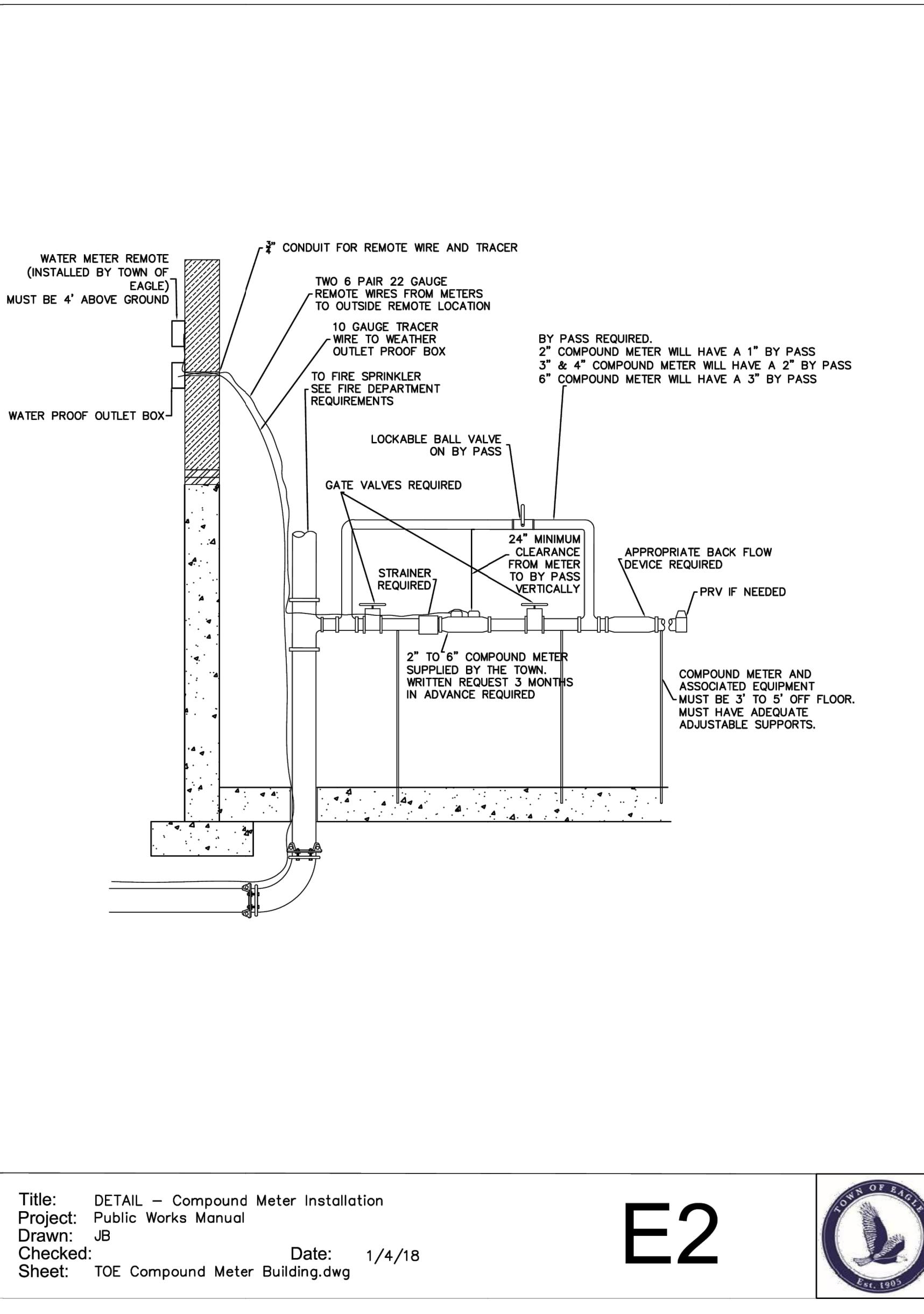
Date: 1/18/2018

D5



DESIGN BY: J. YARNELL	NO. ISSUE / REVISION	DATE	NAME	MIXED-USE DEVELOPMENT
DRAWN BY: J. YARNELL	1. SCHEMATIC DESIGN (NO CONST.)	4/29/23	J.Y	263 SAWATCH DRIVE
REVIEWED BY: J. YARNELL	2. DEVELOPMENT PERMIT SUBMISSION	5/24/23	J.Y	LOT 2, 700 CHAMBERS SUBDIVISION
	3. GRADING PERMIT SUBMITTAL	5/24/23	J.Y	EAGLE, COLORADO
PROJECT NO.: 19.022	4. DEVELOPMENT PERMIT RESUBMITTAL	8/22/23	J.Y	
	5.	8/23/2023	J.Y	

SHEET TITLE
C9.1 DETAILS (2)
SHEET NO.



MIXED-USE DEVELOPMENT	263 SAWATCH DRIVE
LOT 2, 700 CHAMBERS SUBDIVISION EAGLE, COLORADO	YARNELL CONSULTING & CIVIL DESIGN, LLC P.O. BOX 3901 EAGLE, COLORADO 81631 (970) 323-7008

1. SCHEMATIC DESIGN (NO CONST.)
 2. DEVELOPMENT PERMIT SUBMISSION
 3. GRADING PERMIT SUBMITTAL
 4. DEVELOPMENT PERMIT RESUBMITTAL
 5. DATE: 8/23/2023

SHEET TITLE
DETAILS - BUILDING SERVICES
SHEET NO.
C15.1