GENERAL NOTES:

- 1. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. FOR INFORMATION CONTACT: DENVER INTER-UTILITY GROUP, 1-800-922-1987 OR METRO DENVER 303-232-1991. POTHOLE EXISTING UTILITIES AS NECESSARY PRIOR TO CONSTRUCTION.
- 2. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXPENSE
- 3. ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN AT THEIR EXPENSE ALL NECESSARY PERMITS.
- 4. ALL ELEVATIONS SHOWN ARE FLOW LINE UNLESS OTHERWISE NOTED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND REPAIR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION, WHETHER SHOWN ON THESE PLANS OR NOT. CONTRACTOR SHALL CONTACT REPRESENTATIVES OF THE RESPECTIVE UTILITIES AND HAVE ALL UTILITIES FIELD LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE DRAWINGS, TO ASCERTAIN WHETHER ANY STRUCTURES AND UTILITIES MAY EXIST, AND REPAIR AND/OR REPLACE ANY STRUCTURES AND/OR UTILITIES THAT ARE DAMAGED BY THE CONTRACTOR.
- 6. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A SET OF "AS-BUILT" PLANS MARKED WITH ALL DEVIATIONS FROM THE CONSTRUCTION PLANS PRIOR TO FINAL ACCEPTANCE.
- 7. ALL CONCRETE FOR FLATWORK SHALL BE PER SOILS REPORT RECOMMENDATIONS.
- 8. EXPANSION JOINTS WILL BE PLACED IN ALL SIDEWALKS AT PC'S, PT'S, AND AT ANY FIXED OBJECTS, BUT IN NO CASE ANY FURTHER
- 9. CONTRACTOR SHALL HAVE A COPY OF THE APPROVED SOILS REPORT ON SITE.

DOUGLAS COUNTY STANDARD NOTES:

- THE DOUGLAS COUNTY ENGINEERING DIRECTOR SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE ENGINEERING DIVISION HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL CONFORMANCE WITH THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS AND THE DOUGLAS COUNTY SUBDIVISION RESOLUTION OR ACCEPTED VARIANCES TO THOSE REGULATIONS. THE DOUGLAS COUNTY ENGINEERING DIRECTOR, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY, OTHER THAN STATED ABOVE, FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS. THE OWNER AND ENGINEER UNDERSTAND THAT THE RESPONSIBILITY FOR THE ENGINEERING ADEQUACY OF THE FACILITIES DEPICTED IN THIS DOCUMENT LIES SOLELY WITH THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO WHOSE STAMP AND SIGNATURE IS AFFIXED TO THIS
- 2. ALL CONSTRUCTION SHALL CONFORM TO DOUGLAS COUNTY STANDARDS. ANY CONSTRUCTION NOT SPECIFICALLY ADDRESSED BY THESE PLANS AND SPECIFICATIONS WILL BE BUILT IN COMPLIANCE WITH THE LATEST EDITION OF THE MOST STRINGENT OF THE FOLLOWING:
 - THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS
 - THE COLORADO DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - THE COLORADO DEPARTMENT OF TRANSPORTATION M STANDARDS
- 3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DOUGLAS COUNTY ENGINEERING DIVISION AS APPLICABLE. THE COUNTY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND
- 4. THE CONTRACTOR SHALL NOTIFY THE DOUGLAS COUNTY ENGINEERING INSPECTION DIVISION, 303-660-7487, A MINIMUM OF 24-HOURS AND A MAXIMUM OF 72-HOURS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL NOTIFY DOUGLAS COUNTY ENGINEERING INSPECTION WHEN WORKING OUTSIDE OF THE PUBLIC RIGHT-OF-WAY ON ANY FACILITY THAT WILL BE CONVEYED TO THE COUNTY, URBAN DRAINAGE & FLOOD CONTROL DISTRICT, OR OTHER SPECIAL DISTRICT FOR MAINTENANCE (STORM SEWER, ENERGY DISSIPATERS, DETENTION OUTLET STRUCTURES, OR OTHER DRAINAGE INFRASTRUCTURES). FAILURE TO NOTIFY THE ENGINEERING INSPECTION DIVISION TO ALLOW THEM TO INSPECT THE CONSTRUCTION MAY RESULT IN NON-ACCEPTANCE OF THE FACILITY/INFRASTRUCTURE BY THE COUNTY AND/OR URBAN DRAINAGE.
- CONSTRUCTION WILL NOT BEGIN UNTIL ALL APPLICABLE PERMITS HAVE BEEN ISSUED. IF A DOUGLAS COUNTY ENGINEERING INSPECTOR IS NOT AVAILABLE AFTER PROPER NOTICE OF CONSTRUCTION ACTIVITY HAS BEEN PROVIDED, THE PERMITTEE MAY COMMENCE WORK IN THE INSPECTOR'S ABSENCE. HOWEVER, DOUGLAS COUNTY RESERVES THE RIGHT NOT TO ACCEPT THE IMPROVEMENT IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
- 6. THE LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION CONTACT: COLORADO 811, AT 1-800-922-1987 (WWW.COLORADO811.ORG).
- THE CONTRACTOR SHALL HAVE ONE (1) COPY OF THE PLANS SIGNED BY THE DOUGLAS COUNTY ENGINEERING DIRECTOR, ONE (1) COPY OF THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS, AS AMENDED, AND ALL APPLICABLE PERMITS AT THE JOB SITE AT ALL TIMES.
- 8. ALL PROPOSED STREET CUTS TO EXISTING PAVEMENTS FOR UTILITIES, STORM SEWER OR FOR OTHER PURPOSES ARE LISTED AND REFERENCED BELOW:
- 9. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SHALL BE SUBMITTED TO DOUGLAS COUNTY FOR ACCEPTANCE WITH THE RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT APPLICATION. A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN ACCEPTED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- 10. THE CONSTRUCTION PLANS SHALL BE CONSIDERED VALID FOR THREE (3) YEARS FROM THE DATE OF COUNTY ACCEPTANCE, AFTER WHICH TIME THESE PLANS SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY DOUGLAS COUNTY.
- 11. DOUGLAS COUNTY STANDARD DETAILS SHALL NOT BE MODIFIED. ANY NON-STANDARD DETAILS WILL BE CLEARLY IDENTIFIED AS SUCH.
- 12. PAVING, INCLUDING CONSTRUCTION OF CURB AND GUTTER (WHEN USED), SHALL NOT START UNTIL A PAVEMENT DESIGN REPORT AND SUBGRADE COMPACTION TESTS ARE ACCEPTED BY THE ENGINEERING INSPECTION DIVISION FOR ALL PUBLIC AND PRIVATE ROADS.
- 13. STANDARD DOUGLAS COUNTY HANDICAP RAMPS ARE TO BE CONSTRUCTED AT ALL CURB RETURNS AND AT MID-BLOCK LOCATIONS OPPOSITE OF ONE OF THE CURB RETURNS OF ALL "T" INTERSECTIONS AS IDENTIFIED ON THESE PLANS.
- 14. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
- 15. ALL ELEVATIONS ARE ON UNITED STATES COAST AND GEODETIC SURVEY (USC&GS) (NAVD-88) DATUM WITH DATE. THE RANGE POINT OR MONUMENTS SHALL BE SHOWN ON CONSTRUCTION DRAWINGS.
- 16. ALL STORM SEWER IMPROVEMENTS (PUBLIC AND PRIVATE) INCLUDING, BUT NOT LIMITED TO, INLETS, PIPES, CULVERTS, CHANNELS, DITCHES, HYDRAULIC STRUCTURES, RIPRAP, DETENTION BASINS, FOREBAYS, MICROPOOLS, AND WATER QUALITY FACILITIES REQUIRE PERMITTING AND INSPECTIONS. PLEASE CONTACT THE DOUGLAS COUNTY ENGINEERING INSPECTIONS DIVISION AT 303- 660-7487 FOR PERMITTING REQUIREMENTS AND INSPECTIONS SCHEDULING.
- 17. TWO (2) MANHOLE ACCESS POINTS ARE REQUIRED ON ALL TYPE R CURB INLETS GREATER THAN OR EQUAL TO TEN (10) FEET IN LENGTH.
- 18. EPOXY COATED REBAR IS REQUIRED ON ALL DRAINAGE STRUCTURES.
- 19. DOUGLAS COUNTY REQUIRES CLASS D CONCRETE FOR ALL DRAINAGE STRUCTURES.
- 20. ALL RCP STORM SEWERS MUST USE ASTM C443 WATERTIGHT GASKETS PER THE CURRENT DOUGLAS COUNTY AND URBAN DRAINAGE DESIGN CRITERIA.
- 21. ALL RCP SHALL BE CLASS III STORM SEWER PIPE UNLESS OTHERWISE SPECIFIED.
- 22. JOINT RESTRAINTS ARE REQUIRED FOR A MINIMUM OF THE LAST TWO PIPE JOINTS AND FLARED END SECTION OF AN RCP OUTFALL
- 23. PRECAST INLETS AND MANHOLE BASES ARE NOT ALLOWED.
- 24. TOE WALLS ARE REQUIRED ON FLARED END SECTIONS AT THE OUTLET END OF CULVERTS AND STORM SEWER OUTFALLS.
- 25. FILTER FABRIC IS REQUIRED UNDER ALL RIPRAP PADS.
- 26. THE PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF COLORADO, SIGNING THESE PLANS IS RESPONSIBLE FOR ENSURING THAT THE DETAILS INCLUDED ARE COMPATIBLE WITH THE STANDARD DOUGLAS COUNTY DETAILS CONTAINED IN THE LATEST VERSIONS OF THE CRITERIA MANUALS. THIS INCLUDES, BUT IS NOT LIMITED TO:
 - DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS DOUGLAS COUNTY STORM DRAINAGE DESIGN AND TECHNICAL CRITERIA
 - DOUGLAS COUNTY GRADING, EROSION AND SEDIMENT CONTROL CRITERIA
- . CDOT M & S STANDARDS MUTCD
- URBAN STORM DRAINAGE CRITERIA MANUAL VOLUMES 1,2 & 3
- 27. A TEMPORARY CONSTRUCTION ACCESS PERMIT FROM DOUGLAS COUNTY MAY BE REQUIRED FOR ANY PROJECT.

CREEKSIDE BIBLE CHURCH 2180 SOUTH INTERSTATE 25

PART OF THE N 1/2 OF SECTION 27, TOWNSHIP 8 SOUTH. RANGE 67 WEST OF THE 6TH P.M. **5.79 ACRES** CONSTRUCTION DRAWINGS



VICINITY MAP

SHEET INDEX:

C5.1

COVER SHEET OVERALL SITE PLAN C2.0 DEMOLITION PLAN C3.0 HORIZONTAL CONTROL PLAN C4.0 DETAIL SHEET C4.1 DETAIL SHEET DETAILED GRADING PLAN

ROOF DRAIN PLAN

BUILDING PERIMETER DETAILED GRADING PLAN

CALL UTILITY NOTIFICATION CENTER OF COLORADO

1 - 800 - 922 - 1987or 232 - 1991in metro

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

THE FIRST BAPTIST CHURCH OF CASTLE ROCK, COLORADO 2180 S INTERSTATE 25 CASTLE ROCK, COLORADO 80104 (303) 688-3745 MR. CHARLES VAUGHAN

CIVIL ENGINEER: CKE ENGINEERING, INC. 14257 W. EVANS CIRCLE LAKEWOOD, COLORADO 80228 (303) 917-1757 MR. JOE COCO

2 80 2

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Sheet Number:

BASIS OF BEARING: THE BEARINGS SHOWN HEREON ARE BASED UPON THE NORTH LINE OF SECTION 27, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH PM BEARING

S89°06'50"E BETWEEN THE NW CORNER OF SECTION 27 BEING A 2.5" ALUM CAP LS 6935 AND THE NE CORNER OF SECTION 27 BEING A STONE WITH

SURVEY BENCHMARK: NGS X 395. ELEVATION 6357.60 (NAVD 88).

BENCHMARK:

ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

THESE CONSTRUCTION DRAWINGS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR

ENGINEERING DIVISION ACCEPTANCE BLOCK

DATE

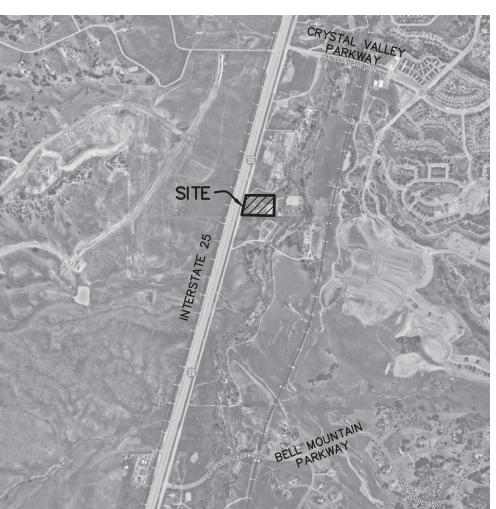
CROSS CHISELED ON TOP AT FENCE CORNER.

STREET AND DRAINAGE IMPROVEMENTS ONLY.

CREEKSIDE BIBLE CHURCH 2180 S INTERSTATE 25

A PART OF THE N 1/2 OF SEC. 27 TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH P.M. COUNTY OF DOUGLAS, STATE OF COLORADO **5.79 ACRES**

SMALL SITE GESC PLANS





VICINITY MAP
1"=2000'

CALL UTILITY NOTIFICATION CENTER OF COLORADO

1 - 800 - 922 - 1987

or 232—1991 IN METRO DENVER

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

THE GRADING, EROSION AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REQUIREMENTS OF THE GRADING, EROSION, AND SEDIMENT CONTROL (GESC) MANUAL OF DOUGLAS COUNTY AS AMENDED.

GESC PLANS PREPARED BY: The Coco

11/04/24 DATE

33392

PE NUMBER: 33392

FOR AND ON BEHALF OF CKE ENGINEERING, INC.

THE GRADING, EROSION AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PLACED IN THE DOUGLAS COUNTY FILE FOR THIS PROJECT AND APPEARS TO FULFILL APPLICABLE DOUGLAS COUNTY GRADING, EROSION AND SEDIMENT CONTROL CRITERIA, AS AMENDED. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE PERMITTEES DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED GESC PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC PLAN SHALL RUN WITH THE LAND AND SHALL BE THE OBLIGATION OF THE PERMITTEES, UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

OWNER:
THE FIRST BAPTIST CHURCH OF CASTLE ROCK, COLORADO 2180 S INTERSTATE 25
CASTLE ROCK, COLORADO 80104
(303) 688-3745
MR. CHARLES VAUGHAN

CIVIL ENGINEER:

CKE ENGINEERING, INC.

14257 W. EVANS CIRCLE

LAKEWOOD, COLORADO 80228 (303) 917-1757 MR. JOE COCO

GENERAL DRAWINGS COVER SHEET GESC DRAWINGS

OVERALL PLAN SMALL SITE GESC PLAN

GESC STANDARD NOTES AND DETAILS GESC DETAILS GESC DETAILS E4 GESC DETAILS

BENCHMARK:

SURVEY BENCHMARK: NGS X 395. ELEVATION 6357.60 (NAVD 88).

BASIS OF BEARING:

THE BEARINGS SHOWN HEREON ARE BASED UPON THE NORTH LINE OF SECTION 27, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH PM BEARING S89°06'50"E BETWEEN THE NW CORNER OF SECTION 27 BEING A 2.5" ALUM CAP LS 6935 AND THE NE CORNER OF SECTION 27 BEING A STONE WITH CROSS CHISELED ON TOP AT FENCE CORNER.

ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

DATE

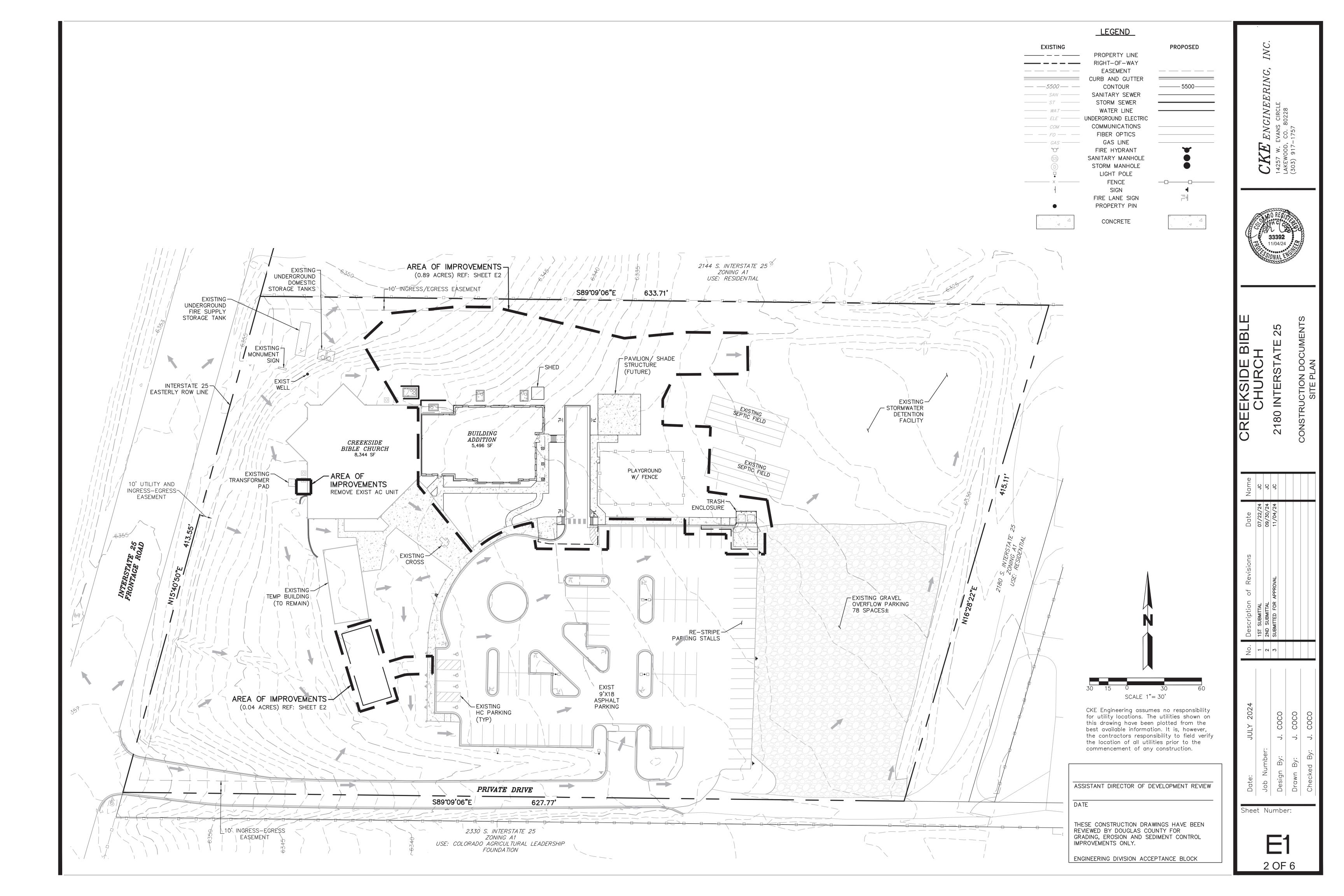
THESE CONSTRUCTION DRAWINGS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR GRADING, EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

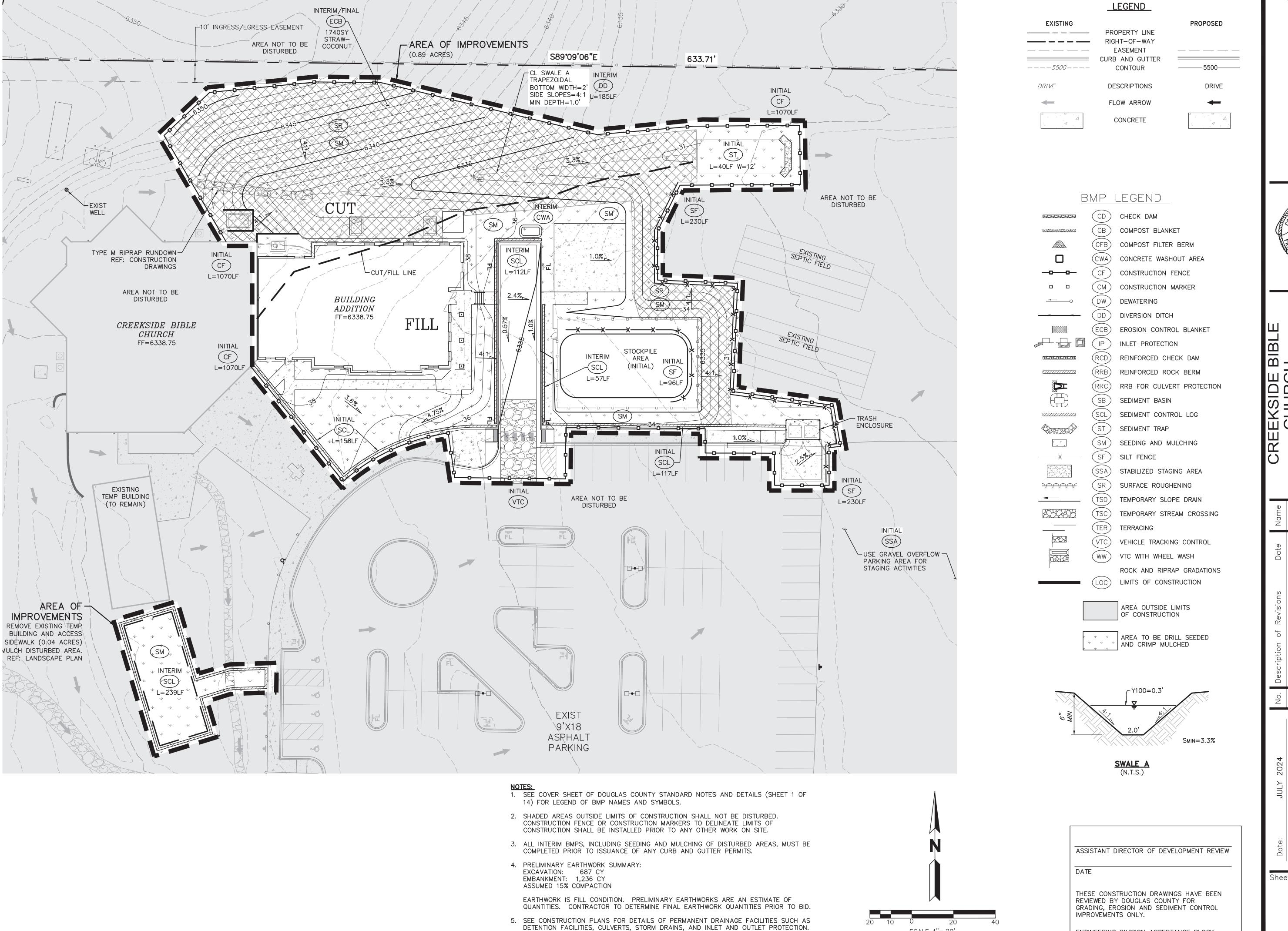
ENGINEERING DIVISION ACCEPTANCE BLOCK



Sheet Number:

1 OF 6





6. SURVEY BENCHMARK: NGS X 395. ELEVATION 6357.60 (NAVD 88).

2180

Sheet Number:

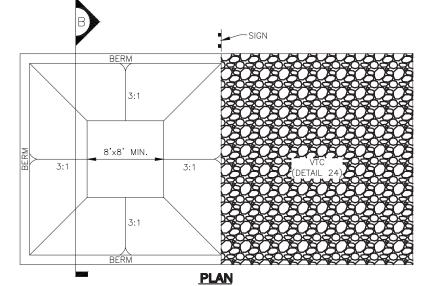
3 OF 6

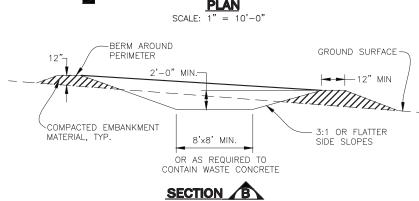
ENGINEERING DIVISION ACCEPTANCE BLOCK

SCALE 1"= 20'

GRADING, EROSION, AND SEDIMENT CONTROL (GESC) GENERAL NOTES

- THE DOUGLAS COUNTY ENGINEER'S SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE DOUGLAS COUNTY PUBLIC WORKS ENGINEERING HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL COMPLIANCE WITH THE DOUGLAS COUNTY GRADING, FROSION AND SEDIMENT CONTROL (GESC) CRITERIA MANUAL, THE DOUGLAS COUNTY DIRECTOR OF ENGINEERING SERVICES, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY (OTHER THAN AS STATED ABOVE) FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS.
- 2. THE ADEQUACY OF THIS GESC PLAN LIES WITH THE ORIGINAL DESIGN ENGINEER.
- THE GESC PLAN SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY DOUGLAS COUNTY, AFTER WHICH TIME THE PLAN SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY DOUGLAS COUNTY.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DOUGLAS COUNTY PUBLIC WORKS ENGINEERING. DOUGLAS COUNTY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE GESC MANUAL, GESC PLAN OR GESC PERMIT.
- THE PLACEMENT OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE IN ACCORDANCE WITH THE DOUGLAS COUNTY ACCEPTED GESC PLAN AND THE DOUGLAS COUNTY GESC MANUAL, AS
- ANY VARIATION IN MATERIAL, TYPE OR LOCATION OF EROSION AND SEDIMENT CONTROL BMPs FROM THE DOUGLAS COUNTY ACCEPTED GESC PLAN WILL REQUIRE APPROVAL FROM AN ACCOUNTABLE REPRESENTATIVE OF THE DOUGLAS COUNTY PUBLIC WORKS ENGINEERING
- AFTER THE GESC PLAN HAS BEEN ACCEPTED, THE GESC PERMIT APPLIED FOR, FEES AND FISCAL SECURITY SUBMITTED TO THE COUNTY, AND THE GESC FIELD MANUAL OBTAINED AND REVIEWED, THE CONTRACTOR MAY INSTALL THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL BMPs INDICATED ON THE ACCEPTED GESC PLAN.
- 3. THE FIRST BMP TO BE INSTALLED ON THE SITE SHALL BE CONSTRUCTION FENCE, MARKERS, OR OTHER APPROVED MEANS OF DEFINING THE LIMITS OF CONSTRUCTION, INCLUDING CONSTRUCTION LIMITS ADJACENT TO STREAM CORRIDORS AND OTHER AREAS TO BE PRESERVED.
- AFTFR INSTALLATION OF THE INITIAL—STAGE EROSION AND SEDIMENT CONTROL BMPs, THE PERMITTEE SHALL CALL THE DOUGLAS COUNTY ENGINEERING PERMITS STAFF AT 303-660-7487 TO SCHEDULE A PRECONSTRUCTION MEETING AT THE PROJECT SITE. THE REQUEST SHALL BE MADE A MINIMUM OF THREE BUSINESS DAYS PRIOR TO THE REQUESTED MEETING TIME. NO CONSTRUCTION ACTIVITIES SHALL BE PLANNED WITHIN 24 HOURS AFTER THE PRECONSTRUCTION MEETING.
- 10. THE OWNER OR OWNER'S REPRESENTATIVE, THE GESC MANAGER, THE GENERAL CONTRACTOR, AND THE GRADING SUBCONTRACTOR. IF DIFFERENT FROM THE GENERAL CONTRACTOR, MUST ATTEND THE PRECONSTRUCTION MEETING. IF ANY OF THE REQUIRED PARTICIPANTS FAIL TO ATTEND THE PRECONSTRUCTION MEETING, OR IF THE GESC FIELD MANUAL IS NOT ON SITE, OR IF THE INSTALLATION OF THE INITIAL BMPs ARE NOT APPROVED BY THE DOUGLAS COUNTY GESC INSPECTOR, THE APPLICANT WILL HAVE TO PAY A REINSPECTION FEE, ADDRESS ANY PROBLEMS WITH BMP INSTALLATION, AND CALL TO RESCHEDULE THE MEETING, WITH A CORRESPONDING DELAY IN THE START OF CONSTRUCTION. DOUGLAS COUNTY STRONGLY ENCOURAGES THE APPLICANT TO HAVE THE ENGINEER OF RECORD AT THE PRECONSTRUCTION MEETING
- CONSTRUCTION SHALL NOT BEGIN UNTIL THE DOUGLAS COUNTY EROSION CONTROL INSPECTOR APPROVES THE INSTALLATION OF THE INITIAL BMPs AND THE APPROVED GESC PERMIT IS PICKED UP FROM THE COUNTY AND IS IN-HAND ON THE SITE. THE COMPLETED PERMIT WILL BE AVAILABLE WITHIN 24-HOURS AFTER THE INSTALLATION
- 12. THE GESC MANAGER SHALL STRICTLY ADHERE TO THE DOUGLAS COUNTY—APPROVED LIMITS OF CONSTRUCTION AT ALL TIMES. THE DOUGLAS COUNTY PUBLIC WORKS ENGINEERING MUST APPROVE ANY CHANGES TO THE LIMITS OF CONSTRUCTION AND, AT THE DISCRETION OF THE ENGINEERING DIVISION, ADDITIONAL EROSION/SEDIMENT CONTROLS MAY BE REQUIRED IN ANY ADDITIONAL AREAS OF CONSTRUCTION.
- 13. THE MAXIMUM AREA OF CONSTRUCTION SHALL BE LIMITED TO 40 ACRES (70 ACRES IF APPROVED FOR SOIL MITIGATION OPERATIONS) TO REDUCE THE AMOUNT OF LAND DISTURBED AT ANY ONE TIME. LARGER SITES SHALL BE DIVIDED INTO PHASES THAT ARE EACH 40 (OR 70) ACRES OR LESS IN SIZE. THESE PROJECTS SHALL CONDUCT GRADING ACTIVITIES IN ACCORDANCE WITH THE ACCEPTED GESC PLAN. BMP INSTALLATION AND APPROVAL BY DOUGLAS COUNTY AT THE START AND COMPLETION OF EACH PHASE SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE GESC MANUAL AND/OR GESC FIELD MANUAL.
- 4. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. FOR INFORMATION, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-800-922-1987 OR FAX AT 303-534-6700
- 15. 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 OPERATIONS.
- 16. THE GESC PERMIT SHALL BE VALID FOR A PERIOD OF ONE (1) YEAR.
- 18. THE GESC MANAGER SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE GESC PERMIT AND SHALL BE THE PERMITTEE'S CONTACT PERSON WITH THE COUNTY FOR ALL MATTERS PERTAINING TO THE GESC PERMIT. THE GESC MANAGER SHALL BE PRESENT AT THE SITE THE MAJORITY OF THE TIME AND SHALL BE AVAILABLE THROUGH A 24-HOUR CONTACT NUMBER. IN THE EVENT THAT THE CONTRACTOR'S GESC MANAGER IS NOT ON SITE AND CANNOT BE REACHED DURING A VIOLATION. THE ALTERNATE GESC MANAGER SHALL BE CONTACTED. IF NEITHER THE GESC MANAGER NOR ALTERNATE GESC MANAGER CAN BE CONTACTED DURING ANY VIOLATION, A STOP WORK ORDER SHALL BE ISSUED.
- 19. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE THROUGH THE DOUGLAS COUNTY-APPROVED ACCESS POINT. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL ACCESS POINTS ON THE SITE. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE ADDED WITH AUTHORIZATION FROM THE DOUGLAS COUNTY PUBLIC
- 20. THE GESC MANAGER IS RESPONSIBLE FOR CLEANUP OF SEDIMENT OR CONSTRUCTION DEBRIS TRACKED ONTO ADJACENT PAVED AREAS. PAVED AREAS INCLUDING STREETS ARE TO BE KEPT CLEAN THROUGHOUT BUILD-OUT AND SHALL BE CLEANED, WITH A STREET SWEEPER OR SIMILAR DEVICE. AT FIRST NOTICE OF ACCIDENTAL TRACKING OR AT THE DISCRETION OF THE DOUGLAS COUNTY EROSION CONTROL INSPECTOR, STREET WASHING IS NOT ALLOWED. DOUGLAS COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO ENSURE AREA STREETS ARE KEPT FREE OF SEDIMENT AND/OR CONSTRUCTION DEBRIS.





CONCRETE WASHOUT AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 LOCATIONS OF CONCRETE WASHOUT AREA.
- 2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- 3. VEHICLE TRACKING CONTROL (DETAIL 24) IS REQUIRED AT THE ACCESS POINT.
- 4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- 5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.
- 6. DURABLE PORTABLE CONCRETE WASHOUT BASINS OR TUBS MAY BE USED WITH THE APPROVAL OF THE EROSION CONTROL
- CONCRETE WASHOUT AREA MAINTENANCE NOTES
- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
- 3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.
- 4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT. CONCRETE WASHOUT AREA

- 21. APPROVED EROSION AND SEDIMENT CONTROL BMPs SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT. AT A MINIMUM, THE GESC MANAGER SHALL INSPECT ALL BMPs IN ACCORDANCE WITH THE ACCEPTED GESC PLAN AND GESC MANUAL. LEVEL III VIOLATIONS SHALL BE CORRECTED IMMEDIATELY AFTER THE PERMITTEE(S) NOTICE THE VIOLATION(S) OR ARE NOTIFIED OF THE VIOLATION(S). GENERALLY DOUGLAS COUNTY WILL REINSPECT FOR COMPLIANCE WITHIN 48 HOURS OF NOTIFICATION OF LEVEL III VIOLATIONS. LEVEL II VIOLATIONS SHALL BE CORRECTED IMEDIATELY, OR AS DIRECTED BY A DOUGLAS COUNTY EROSION CONTROL INSPECTOR. ACCUMULATED SEDIMENT AND CONSTRUCTION DEBRIS SHALL BE REMOVED AND PROPERLY DISPOSED.
- 23. TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN THE LOCATION SHOWN ON THE ACCEPTED GESC PLAN. THE GESC MANAGER SHALL SCHEDULE AN INSPECTION WITH THE DOUGLAS COUNTY EROSION CONTROL INSPECTOR AS SOON AS TOPSOIL STRIPPING IS COMPLETED. FAILURE TO SCHEDULE SUCH INSPECTION OR FAILURE TO STOCKPILE TOPSOIL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER. THE STOP WORK ORDER SHALL REMAIN IN PLACE UNTIL TOPSOIL IS STOCKPILED ON SITE OR APPROPRIATE SOIL AMENDMENTS ARE STOCKPILED

22. STRAW BALES ARE NOT A DOUGLAS COUNTY ACCEPTED SEDIMENT CONTROL BMP.

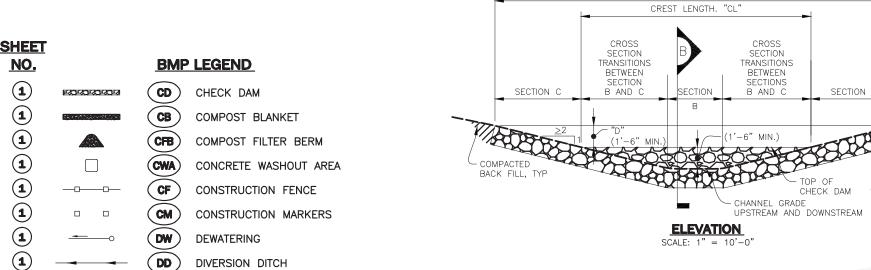
- 24. THE ACCEPTED GESC PLAN MAY REQUIRE CHANGES OR ALTERATIONS AFTER APPROVAL TO MEET CHANGING SITE OR PROJECT CONDITIONS OR TO ADDRESS INEFFICIENCIES IN DESIGN OR INSTALLATION. THE GESC MANAGER SHALL OBTAIN PRIOR APPROVAL FROM THE DESIGN ENGINEER AND DOUGLAS COUNTY PUBLIC WORKS ENGINEERING FOR ANY PROPOSED CHANGES.
- 25. LINING OF TEMPORARY SWALES AND DITCHES SHALL BE IN ACCORDANCE WITH THE GESC CRITERIA MANUAL.
- 26. NO PERMANENT EARTH SLOPES GREATER THAN 3:1 SHALL BE ALLOWED. 27. ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE LIMITS OF CONSTRUCTION DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE GESC MANAGER. THE GESC MANAGER SHALL BE HELD RESPONSIBLE FOR OBTAINING ACCESS RIGHTS TO ADJACENT PROPERTY, IF NEEDED, AND REMEDIATING ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, PROPERTIES, ETC. RESULTING FROM WORK DONE AS PART OF THIS
- 28. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- 29. SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE SEEDED AND MULCHED WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. NO STOCKPILES SHALL BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY UNLESS APPROVED BY THE DOUGLAS COUNTY PUBLIC WORKS ENGINEERING.
- 30. ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDE BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER AND DRY GULLIES OR STORM SEWER LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE CDPHE PER CRS 25-8-601, AND DOUGLAS COUNTY. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AS WELL AS THE CDPHE. CONTACT INFORMATION FOR CDPHE, DOUGLAS COUNTY AND THE NATIONAL RESPONSE CENTER CAN BE FOUND IN APPENDIX A OF THE GESC MANUAL, AS AMENDED. SPILLS THAT POSE AN IMMEDIATE RISK TO HUMAN LIFE SHALL BE REPORTED TO 911. FAILURE TO REPORT AND CLEAN UP ANY SPILL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER.
- ALL WORK ON SITE SHALL STAY A MINIMUM OF ONE HUNDRED (100) FEET AWAY FROM ANY DRAINAGEWAY, WETLAND, ETC. UNLESS OTHERWISE NOTED ON AN ACCEPTED DOUGLAS COUNTY GESC PLAN.
- 32. ALL PROJECTS SHALL BALANCE EARTHWORK QUANTITIES ON SITE. IN THE EVENT A VARIANCE IS GRANTED BY THE COUNTY DIRECTOR OF ENGINEERING SERVICES TO ALLOW IMPORT OR EXPORT OF MATERIAL, THE PERMITEE SHALL HAVE A GESC PERMIT IN HAND FOR THE IMPORT OR EXPORT SITE PRIOR TO ANY TRANSPORTING OF EARTHEN MATERIAL. THE GESC MANAGER SHALL NOTIFY THE DOUGLAS COUNTY GESC INSPECTOR OF THE LOCATION AND PERMIT NUMBERS OF BOTH THE EXPORTING AND IMPORTING SITES PRIOR TO ANY IMPORT/ EXPORT OPERATIONS. 33. THE USE OF REBAR, STEEL STAKES OR STEEL FENCE POSTS FOR STAKING OR SUPPORT OF ANY EROSION OR

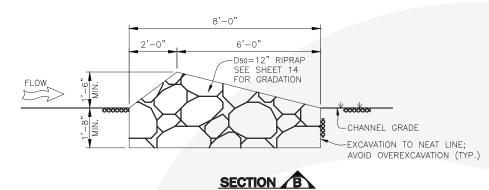
SEDIMENT CONTROL BMP IS PROHIBITED (EXCEPT STEEL TEE-POSTS FOR USE IN SUPPORTING CONSTRUCTION

- 34. THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS RESTRICTED TO APPROVED CONCRETE WASH OUT LOCATIONS ON THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED AT AN
- 35. ALL DEWATERING ON SITE SHALL BE COORDINATED WITH A DOUGLAS COUNTY GESC INSPECTOR AND BE FREE OF
- SEDIMENT IN ACCORDANCE WITH THE GESC MANUAL. 36. ALL PERMANENT INSTALLATIONS OF PIPES FOR STORM SEWERS, SLOPE DRAINS, AND CULVERTS, TOGETHER WITH RIPRAP APRONS OR OTHER INLET AND OUTLET PROTECTION, REQUIRE INSPECTION BY DOUGLAS COUNTY PUBLIC
- WORKS ENGINEERING (SEPARATE FROM GESC INSPECTIONS). 17. A COPY OF THE GESC PERMIT, ACCEPTED GESC PLANS AND THE GESC FIELD MANUAL SHALL BE ON SITE AT ALL 37. ALL DISTURBED AREAS SHALL BE DRILL SEEDED AND CRIMP MULCHED IN ACCORDANCE WITH THE GESC CRITERIA MANUAL WITHIN THIRTY DAYS OF INITIAL EXPOSURE OR WITHIN FOURTEEN (14) DAYS OF SUBSTANTIAL COMPLETION (AS DEFINED BY DOUGLAS COUNTY) OF AN AREA, WHICHEVER IS LESS. THIS MAY REQUIRE MULTIPLE
 - 38. ALL SLOPES STEEPER THEN 4:1 REQUIRED EROSION CONTROL BLANKETING.

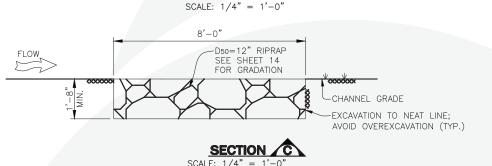
MOBILIZATIONS FOR SEEDING AND MULCHING.

- 39. HYDRAULIC SEEDING AND HYDRAULIC MULCHING ARE NOT AN ACCEPTABLE METHOD OF SEEDING OR MULCHING IN DOUGLAS COUNTY.
- 40. NO CURB AND GUTTER PERMITS SHALL BE ISSUED UNTIL ALL DISTURBED AREAS ARE DRILL SEEDED AND CRIMP
- 41. NO PAVING PERMITS SHALL BE ISSUED UNTIL ALL INTERIM INLET PROTECTION IS INSTALLED AND APPROVED BY THE EROSION CONTROL INSPECTOR.
- 42. A FINAL GESC INSPECTION SHALL BE CONDUCTED FOR CERTIFICATE OR TEMPORARY CERTIFICATE OF OCCUPANCY
- 43. ALL REMAINING AREAS THAT ARE NOT LANDSCAPED OR OTHERWISE STABILIZED SHALL BE COVERED WITH EROSION CONTROL BLANKETING. ALL EROSION CONTROL BLANKETS AND NETTING SHALL BE MADE OF 100% NATURAL AND BIODEGRADABLE MATERIAL; NO PLASTIC OR OTHER SYNTHETIC MATERIAL, EVEN IF PHOTODEGRADABLE, SHALL BE ALLOWED. SEEDING IS NOT REQUIRED UNDER BLANKETS THAT ARE USED FOR TEMPORARY FROSION CONTROL IN AREAS THAT ARE NOT LANDSCAPED OR OTHERWISE STABILIZED





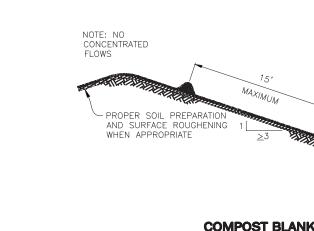
LENGTH, "L

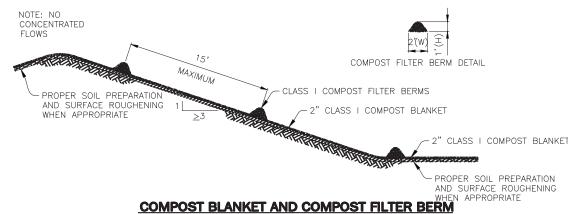


- CHECK DAM INSTALLATION NOTES
- SEE PLAN VIEW FOR:

 LOCATIONS OF CHECK DAMS.
 CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
 LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D".
- 2. CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND-DISTURBING ACTIVITIES. 3. RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D_{50} MEDIAN STONE SIZE OF 12".
- 4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-8". 5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1'-6" HIGHER THAN THE CENTER OF THE CHECK DAM.
- CHECK DAM MAINTENANCE NOTES 1. THE GESC MANAGER SHALL INSPECT CHECK DAMS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- 2. SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST. 3. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE COUNTY.







COMPOST BLANKET NOTES:

- 1. SEE PLAN VIEW FOR AREA OF COMPOST BLANKET
- 2. MAY BE USED IN PLACE OF STRAW MULCH OR EROSION CONTROL BLANKET IN AREAS WHERE ACCESS IS DIFFICULT DUE TO LANDSCAPING OR OTHER OBJECTS OR IN AREAS WHERE A SMOOTH TURF GRASS FINISH IS DESIRED.
- 3. SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL; SHALL BE PROHIBITED IN AREAS OF POSSIBLE CONCENTRATED FLOW.
- 4. SOIL PREPARATION SHALL BE COMPLETE PER THE SPECIFICATIONS OUTLINED IN
- 5. WHEN TURF GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL TAKE PLACE PRIOR TO APPLICATION.
- 6. SHALL BE EVENLY APPLIED AT A DEPTH OF 2 INCH.
- 7. MAYBE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
- 8. SEEDING SHALL BE DRILLED PRIOR TO THE APPLICATION OF COMPOST OR SEED MAY BE COMBINED AND BLOWN WITH THE PNEUMATIC BLOWER.
- 9. COMPOST FILTER BERM SHALL BE UTILIZED ON SLOPES WITH A MAXIMUM SPACING OF 15 FEET PER THE REQUIREMENTS FOUND IN THE COMPOST FILTER BERM SECTION.
- 10. THE GESC MANAGER SHALL INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT. 11. COMPOST USED IN THE APPLICATION OF THE COMPOST BLANKET SHALL BE A CLASS I COMPOST AS DEFINED BY THE FOLLOWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAMETERS.

COMPOST AS DEFINED BY THE FOLLO	DWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARA
PARAMETERS	CLASS I COMPOST FOR COMPOST BLANKET
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOLUBLE SALTS	MAXIMUM 5mmhos/cm
PH	6.0 - 8.0
AG INDEX	> 10
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+/80+
MATURITY INDICATOR EXPRESSED AS AMMONIA N/ NITRATE N RATIO	< 4
MATURITY INDICATOR EXPRESSED AS CARBON TO NITROGEN RATIO	20:1
TESTED FOR CLOPYRALID	YES/NEGATIVE RESULT
MOISTURE CONTENT	30-60 %
ORGANIC MATTER CONTENT	25-45 % OF DRY WEIGHT
PARTICLE SIZE DISTRIBUTION	3" (75mm) 100% PASSING 1" (25mm) 95% TO 100% PASSING 3/4" (19mm) 85% TO 90% PASSING 3/8" (9.5mm) 50% TO 60% PASSING #4 20 TO 35% PASSING
PRIMARY, SECONDARY NUTRIENTS; TRACE ELEMENT	MUST BE REPORTED
TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS	STA + CLOPYRALID
ORGANIC MATTER PER CUBIC YARD	MUST REPORT
CHEMICAL CONTAMINANTS	MEET OR EXCEED US EPA CLASS A STANDARD, 40 CFR 503.1 TABLES 1 & 3 LEVELS
MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT	FULLY PERMITTED UNDER COLORADO DEPARTMEN OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDO

NOTE: CLOPYRALID IS THE COMMON NAME OF A HERBICIDE THAT KILLS BROAD-LEAVED WEEDS SUCH AS DANDELIONS, CLOVER AND THISTLE.

<u>UNLINED</u>

LONGITUDINAL SLOPE <_0.5% SCALE: 1/4" = 1'-0

EROSION CONTROL BLANKET

(ECB) SEE DETAIL 9 —

30 MIL MIN. PLASTIC -

INTERMEDIATE ANCHOR TRENCH AT ONE—HALF ROLL—LENGTH SIMILAR

DIVERSION DITCH INSTALLATION NOTES

TO DETAIL 9, BUT NO STAKING -

LOCATION OF DIVERSION DITCH.

INTERMEDIATE ANCHOR TRENCH AT ONE—HALF ROLL—LENGTH SEE DETAIL 9—

COMPOST BLANKET

MATERIALS AND WASTE MANAGEMENT DIVISION

-THICKNESS=2 x D50

RIPRAP LINED

IOINTS WITH ANY ADJACENT ROLLS OF BLANKET. SEE DETAIL 9

ANCHOR TRENCH AT PERIMETER OF BLANKET AND AT OVERLAPPING JOINTS

TRANSVERSE ANCHOR TRENCHES AT PERIMETER OF BLANKET AND AT OVERLAPPING JOINTS WITH ANY ADJACENT ROLLS OF BLANKET, SIMILAR TO

WITH ANY ADJACENT ROLLS OF BLANKI

- TRANSVERSE ANCHOR TRENCHES AT PERIMETER OF

BLANKET AND AT OVERLAPPING JOINTS WITH AN ADJACENT ROLLS OF BLANKET. SEE DETAIL 9

"W" (5'-0" MIN.) STAKES PER DETAIL 9

EROSION CONTROL BLANKET (ECB) LINED

PLASTIC LINED

SCALE: 1/4" = 1'-0"

2. SEE DRAINAGE PLANS FOR DETAILS OF ANY PERMANENT CONVEYANCE FACILITIES OR DIVERSION DITCHES EXCEEDING A 2—YEAR FLOW RATE OF 10 CFS.

4. FOR ECB LINED DITCHES, INSTALLATION OF EROSION CONTROL BLANKET SHALL CONFORM TO THE REQUIREMENTS OF DETAIL 9.

5. IN LOCATIONS WHERE CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION DITCH, THE PERMITTEES SHALL INSTALL A TEMPORARY CULVERT WITH A MINIMUM DIAMETER OF 12—INCHES.

THE GESC MANAGER SHALL INSPECT DIVERSION DITCHES WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.

2. DIVERSION DITCHES ARE TO REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION, OR, IF APPROVED BY THE COUNTY, LEFT IN PLACE.

3. IF DIVERSION DITCHES ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

DD DIVERSION DITCH 8

3. DIVERSION DITCHES INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.

- TYPE OF DITCH (UNLINED, ECB LINED, PLASTIC LINED OR RIPRAP LINED). - LENGTH OF EACH TYPE OF DITCH.

DEPTH, "D", AND WIDTH, "W" DIMENSIONS.
 FOR ECB LINED DITCH, EROSION CONTROL BLANKET TYPE (SEE DETAIL 9).
 FOR RIPRAP LINED DITCH, SIZE OF RIPRAP, "D50".

SCALE: 1/4" = 1'-0"

COMPOST FILTER BERM NOTES:

- 1. SEE PLAN VIEW FOR LENGTH OF COMPOST FILTER BERM. 2. SHALL BE APPLIED TO ALL SLOPES RECEIVING A COMPOST BLANKET AT 15' INCREMENTS.
- 3. FILTER BERMS SHALL RUN PARALLEL TO THE CONTOUR. 4. FILTER BERMS SHALL BE A MINIMUM OF 1' H x 2' W.
- 5. FILTER BERMS SHALL BE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND. 6. SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL;
- SHALL BE PROHIBITED IN AREAS OF POSSIBLE CONCENTRATED FLOW.
- 7. SOIL PREPARATION SHALL BE COMPLETE PER THE SPECIFICATIONS OUTLINED IN THESE CRITERIA PRIOR TO APPLICATION.
- 8. WHEN TURF GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES
- SHALL TAKE PLACE PRIOR TO APPLICATION.
- 9. SEEDING SHALL BE DRILLED BEFORE THE APPLICATION OF COMPOST OR SEED MAY BE COMBINED AND BLOWN WITH THE PNEUMATIC BLOWER.
- 10. THE GESC MANAGER SHALL INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT. 11. COMPOST USED IN THE APPLICATION OF THE COMPOST BLANKET SHALL BE A CLASS I

COMPOST AS DEFINED BY THE FOLLO	DWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAME
ARAMETERS	CLASS I COMPOST FOR COMPOST FILTER BERM
IINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
OLUBLE SALTS	MAXIMUM 5mmhos/cm
Н	6.0 - 8.0
C NIDEN	. 40

PARAMETERS	CLASS I COMPOST FOR COMPOST FILTER BERM
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOLUBLE SALTS	MAXIMUM 5mmhos/cm
PH	6.0 - 8.0
AG INDEX	> 10
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+/80+
MATURITY INDICATOR EXPRESSED AS AMMONIA N/ NITRATE N RATIO	< 4
MATURITY INDICATOR EXPRESSED AS CARBON TO NITROGEN RATIO	20:1
TESTED FOR CLOPYRALID	YES/NEGATIVE RESULT
MOISTURE CONTENT	30-60 %
ORGANIC MATTER CONTENT	25-45 % OF DRY WEIGHT
PARTICLE SIZE DISTRIBUTION	3" (75mm) 100% PASSING 1" (25mm) 95% TO 100% PASSING 3/4" (19mm) 85% TO 90% PASSING 3/8" (9.5mm) 50% TO 60% PASSING #4 20 TO 35% PASSING
PRIMARY, SECONDARY NUTRIENTS; TRACE ELEMENT	MUST BE REPORTED
TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS	STA + CLOPYRALID
ORGANIC MATTER PER CUBIC YARD	MUST REPORT
CHEMICAL CONTAMINANTS	MEET OR EXCEED US EPA CLASS A STANDARD, 40 CFR 503.1 TABLES 1 & 3 LEVELS
MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT	FULLY PERMITTED UNDER COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDOI MATERIALS AND WASTE MANAGEMENT DIVISION
RISK FACTOR RELATING TO PLANT GERMINATION AND HEALTH	LOW
	JILIZED IT SHALL BE PRODUCED BY A FACILITY IN

POSSESSION OF A VALID NOTICE OF AUTHORIZATION (NOA) FOR THE UNRESTRICTED USE AND DISTRIBUTION BY THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT. THE NOA SHALL BE PROVIDED UPON REQUEST TO DOUGLAS COUNTY. NOTE: A LAB TEST DETAILING THE CHEMICAL, PHYSICAL, AND BIOLOGICAL PARAMETERS SHALL BE PROVIDED UPON REQUEST BY DOUGLAS COUNTY.

COMPOST FILTER BERM 3

TABLE 1. RIPRAP GRADATIONS

D50 MEDIAN STONE SIZE (INCHES)	% OF MATERIAL SMALLER THAN TYPICAL STONE	TYPICAL STONE EQUIVALENT DIAMETER (INCHES)	TYPICAL STONE WEIGHT (POUNDS)
6	70 - 100 50 - 70 35 - 50 2 - 10	12 9 6 2	85 35 10 0.4
9	70 - 100 50 - 70 35 - 50 2 - 10	15 12 9 3	160 85 35 1.3
12	70 - 100 50 - 70 35 - 50 2 - 10	21 18 12 4	440 275 85 3
18	100 50 - 70 35 - 50 2 - 10	30 24 18 6	1280 650 275 10
24	100 50 - 70 35 - 50 2 - 10	42 33 24 9	3500 1700 650 35

TABLE 2. RIPRAP BEDDING CLASS A

1 1/2" 20 - 90 NO. 4 0 - 20 NO. 200 0 - 3 MATCHES SPECIFICATIONS FOR CDC CLASS A FILTER MATERIAL AND UDFCD TYPE 1 BEDDING. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.

TABLE 3. 1 1/2" CRUSHED ROCK

SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES			
	NO. 4			
2"	100			
1 1/2"	90 - 100			
1"	20 - 55			
3/4"	0 - 15			
3/8"	0 - 5			
MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES.				

ROCK AND RIPRAP GRADATIONS

OR OTHER APPROVED AT 15' MAX. SPACING



 \nearrow CONSTRUCTION FENCE \diagup 5 \diagdown

- 1. SEE PLAN VIEW FOR: TYPE OF CONSTRUCTION LIMIT INDICATOR (FENCE OR MARKERS).
- LOCATION AND LENGTH OF FENCE OR LINE OF MARKERS. 2. CONSTRUCTION FENCE OR MARKERS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO OTHER BMPS AND ANY LAND-DISTURBING ACTIVITIES.
- 3. STEEL TEE POSTS SHALL BE UTILIZED FOR SUPPORT OF CONSTRUCTION FENCE. MAXIMUM SPACING FOR TEE POSTS SHALL BE 15'. CONSTRUCTION FENCE MAINTENANCE NOTES
- 1. ANY DAMAGED FENCE OR MARKERS SHALL BE REPAIRED ON A DAILY BASIS. 2. FENCE OR MARKERS SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER FENCE REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE



CONSTRUCTION MARKERS (6)

(ALTERNATIVE TO CONSTRUCTION FENCE)



X3X

10

12

14

16

17

18

22

23

24

(3)

(ECB) EROSION CONTROL BLANKET

(RCD) REINFORCED CHECK DAM

(RRB) REINFORCED ROCK BERM

(SCL) SEDIMENT CONTROL LOG

SM) SEEDING AND MULCHING

(SSA) STABILIZED STAGING AREA

(TSD) TEMPORARY SLOPE DRAIN

(TSC) TEMPORARY STREAM CROSSING

(VTC) VEHICLE TRACKING CONTROL

ROCK AND RIPRAP GRADATIONS

(WW) VTC WITH WHEEL WASH

LIMITS OF CONSTRUCTION

(SR) SURFACE ROUGHENING

(RRC) RRB FOR CULVERT PROTECTION

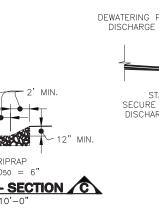
(P) INLET PROTECTION

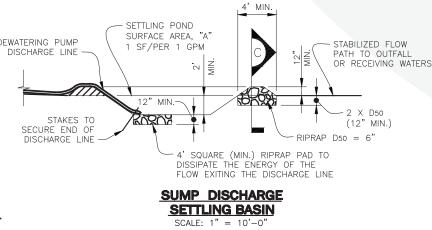
(SB) SEDIMENT BASIN

(ST) SEDIMENT TRAP

(SF) SILT FENCE

(TER) TERRACING





DEWATERING SUMP FOR SUBMERSIBLE PUMP

LID W/ HOLE CUT FOR SUCTION LINE

ALREADY FILLED WITH WATER

SUBMERSIBLE PUMP -

BELOW BUCKET ~

- PLASTIC 5-GALLON BUCKET WITH

SPACING IN SIDE AND BOTTOM

PLASTIC 5-GALLON BUCKET WITH

SPACING IN SIDE AND BOTTOM

BUCKET FILLED WITH RIPRAP BEDDING SEE SHEET 1 FOR GRADATION

DEWATERING INSTALLATION NOTES THE PERMITTEE(S) SHALL SCHEDULE AN ONSITE INSPECTION WITH THE EROSION CONTROL INSPECTOR PRIOR TO ANY SITE DEWATERING OPERATIONS BEGIN.

- 2. THE GESC MANAGER SHALL OBTAIN A CONSTRUCTION DEWATERING PERMIT (DEWATERING PERMIT) FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) PRIOR TO ANY DEWATERING OPERATIONS THAT REQUIRE A DEWATERING PERMIT.
- 3. AT A MINIMUM, THE DEWATERING BMPs SHALL CONSIST OF THE FOLLOWING: PRE-FILTER ON THE SUCTION END OF THE PUMP/HOSE. FILTER BMP PRIOR TO FINAL DISCHARGE, AND ENERGY DISSIPATING BMP AT THE DISCHARGE END OF THE HOSE/PUMP.
- 4. THE TYPE AND PLACEMENT OF DEWATERING CONTROLS SHALL BE COORDINATED WITH, AND APPROVED BY, THE EROSION CONTROL INSPECTOR PRIOR TO THE DISCHARGE OF ANY WATER 1. THE GESC MANAGER SHALL INSPECT DEWATERING SYSTEMS AND PERFORM ANY NECESSARY REPAIRS
- 2. TEMPORARY SETTLING BASINS SHALL BE REMOVED WHEN NO LONGER NEEDED FOR DEWATERING OPERATIONS. ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

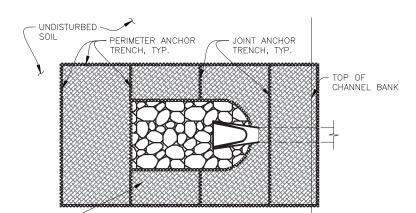


GESC GRADING, EROSION, AND SEDIMENT CONTROL

GESC PLAN STANDARD NOTES AND DETAILS

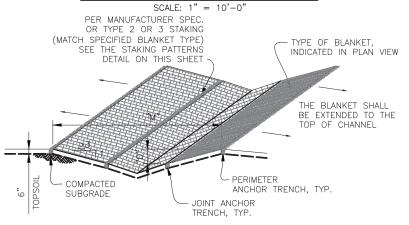
SHEET 1 OF 3

Sheet Revisions NOTE: SCALES SHOWN ARE DOUGLAS COUNTY REISSUE 1/13 FOR 24"x36' HEETS; ADJUS ACCORDINGLY FOR 11"x17' SHEETS.

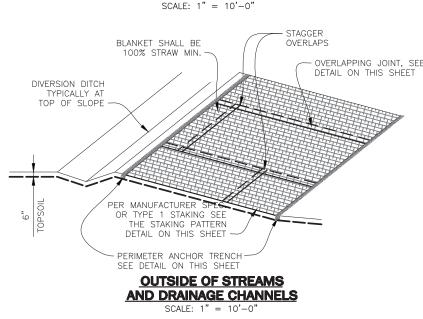


TYPE OF BLANKET AS INDICATED IN PLAN VIEW, IN ALL DISTURBED AREAS OF STREAMS AND DRAINAGE CHANNELS TO DEPTH "D" ABOVE CHANNEL INVERT. BLANKET SHALL GENERALLY BE ORIENTED PARALLEL TO FLOW DIRECTION. STAKING PATTERN SHALL MATCH BLANKET TYPE.

IN DISTURBED AREAS OF STREAMS AND DRAINAGE CHANNELS



IN DIVERSION DITCH OR SMALL DITCH DRAINAGEWAY



LENGTH. "L

CREST LENGTH. "CL"

BLOW UP OF

TWISTED WIRE GABION

REINFORCED CHECK DAM INSTALLATION NOTES

REINFORCED CHECK DAM MAINTENANCE NOTES

SEE PLAN VIEW FOR:

 LOCATIONS OF CHECK DAMS.
 CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
 LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D".

REINFORCED - ELEVATION

2. CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND—DISTURBING ACTIVITIES.

4. RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A ${\rm D_{50}}$ MEDIAN STONE SIZE OF 12".

5. THE CHECK DAM SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-6".

3. REINFORCED CHECK DAMS, GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM OPENING DIMENSION OF 4-1/2" AND A MINIMUM WIRE THICKNESS OF 0.10". WIRE "HOG RINGS" AT 4" SPACING OR OTHER APPROVED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT GABION.

6. EROSION BLANKET SHALL BE PLACED IN THE REINFORCED CHECK DAM TRENCH EXTENDING A MINIMUM OF 1'-6" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE REINFORCED CHECK DAM.

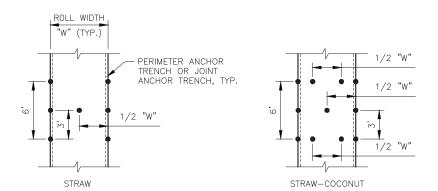
1. THE GESC MANAGER SHALL INSPECT CHECK DAMS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.

2. SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.

4. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACK FILL. ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

REINFORCED CHECK DAM 11

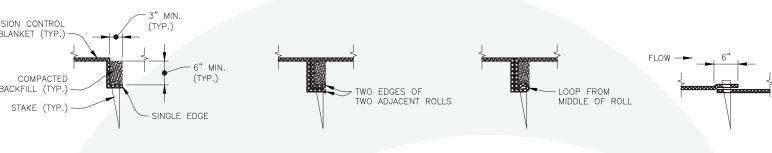
3. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE COUNTY.



STAKING PATTERNS SCALE: 1"=10'-0" SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION. IF NO MANUFACTURER'S SPECIFICATION IS AVAILABLE USE THE ACCEPTABLE STAKING PATTERN (AS SHOWN ABOVE),

INTERMEDIATE

ANCHOR TRENCH



JOINT ANCHOR TRENCH

EROSION CONTROL BLANKET INSTALLATION NOTES

PERIMETER ANCHOR TRENCH

- SEE PLAN VIEW FOR:
 LOCATION OF PERIMETER OF EROSION CONTROL BLANKET. - TYPE OF BLANKET (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR). - AREA "A" IN SQUARE YARDS OF EACH TYPE OF BLANKET.
- 2. ALL EROSION CONTROL BLANKETS AND NETTING SHALL BE MADE OF 100% NATURAL AND BIODEGRADABLE MATERIAL; NO PLASTIC OR OTHER SYNTHETIC MATERIAL, EVEN IF PHOTO DEGRADABLE, SHALL BE ALLOWED.
- 3. IN AREAS WHERE EROSION CONTROL BLANKET IS SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING BELOW THE BLANKET IN ACCORDANCE WITH THE REQUIREMENTS OF DETAIL 17, SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO BLANKET INSTALLATION AND THE BLANKET SHALL BE IN FULL CONTACT WITH SUBGRADE, NO GAPS OR VOIDS SHALL EXIST UNDER THE
- 4. PERIMETER ANCHOR TRENCH SHALL BE USED AT OUTSIDE PERIMETER OF ALL BLANKET AREAS. 5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF BLANKETS TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL BLANKET INSTALLATIONS IN A DRAINAGEWAY EXCEPT STRAW, WHICH
- 6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE—HALF THE ROLL LENGTH FOR COCONUT AND EXCELSIOR BLANKETS.
- 7. THE OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF BLANKETS TOGETHER FOR BLANKETS ON SLOPES.
- 8. MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKET SHALL CONFORM TO TABLE 7.1.



WIRE AND ROCK NOT SHOWN FOR

O" IN BED ROCK 2"IN SOIL →

ANY GAP AT JOINT SHALL BE ANY CAP AT JOINT SHALL BE FILLED WITH 1 1/2" CRUSHED ROCK AND WRAPPED WITH ADDITIONAL WIRE MESH SECURED TO ENDS OF ROCK



GROUND SURFACE

ELEVATION

SECTION D

-1-1/2" CRUSHED ROCK ENCLOSED IN WIRE MESH

GROUND SURFACE

EROSION CONTROL BLANKET INSTALLATION NOTES - CONTINUED 9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKET SHALL BE RESEEDED AND MULCHED IN ACCORDANCE WITH DETAIL 17.

OVERLAPPING JOINT

1/2 "W"

COCONUT OR EXCELSIOR

- 10. SEE DRAINAGE DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION MEASURES THAT MAY EXCEED THE DESIGN CONDITIONS ASSOCIATED WITH THE DETAILS ABOVE.
- 11. METAL STAKES OR STAPLES MAY BE USED FOR EROSION CONTROL BLANKET INSTALLATIONS OUTSIDE

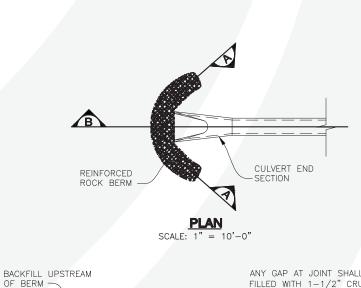
WOOD STAKE DETAIL

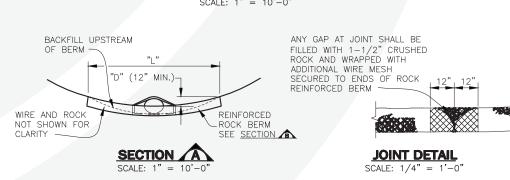
SCALE: 1/2" = 1'-0"MINIMUM THICKNESS 1/2"

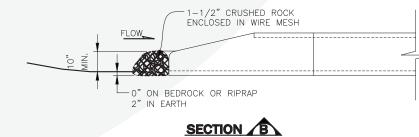
TABLE 7.1 -	NKET TYPE			
TYPE	COCONUT	STRAW CONTENT	EXCELSIOR CONTENT	NETTING MIN.
STRAW*	_	100%	-	DOUBLE/NATURA
STRAW-COCONUT	30% MIN.	70% MAX.	-	DOUBLE/NATURA
COCONUT	100%	_	-	DOUBLE/NATURA
EXCELSIOR	_	_	100%	DOUBLE/NATURA
* FOR OUTSIDE	OF STREAMS	AND DRAIN	NAGE CHANN	ELS

EROSION CONTROL BLANKET MAINTENANCE NOTES

- 1. THE GESC MANAGER SHALL INSPECT EROSION CONTROL BLANKETS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS AS NECESSARY.
- 2. EROSION CONTROL BLANKET IS TO BE LEFT IN PLACE UNLESS REQUESTED TO BE REMOVED BY THE COUNTY.
- 3. ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE RE-INSTALLED. ANY SUBGRADE AREAS BELOW THE BLANKET THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND THE EROSION CONTROL BLANKET REINSTALLED.



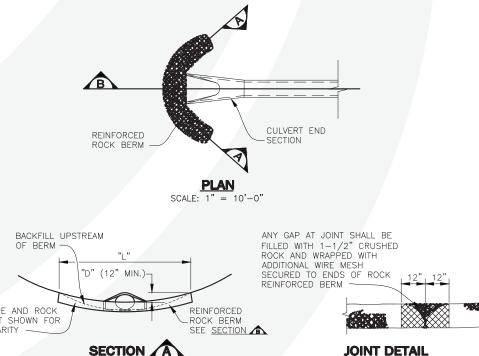


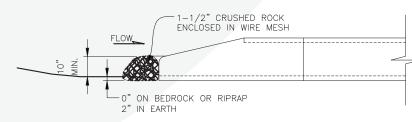


REINFORCED ROCK BERM INSTALLATION NOTES SEE PLAN VIEW FOR: LOCATIONS OF REINFORCED ROCK BERMS. LENGTH, "L", AND DEPTH, "D" DIMENSIONS.

- REINFORCED ROCK BERM SECTION APPLIES TO CULVERT INLET FILTER AND INLET PROTECTION.
- 3. CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2"). RECYCLED CONCRETE MEETING THIS GRADATION MAY BE USED.
- 4. WIRE MESH SHALL BE FABRICATED OF 20 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
- 5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- 6. FOR CONCENTRATED FLOW AREAS THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN THE CENTER OF THE BERM.
- REINFORCED ROCK BERM MAINTENANCE NOTES THE GESC MANAGER SHALL INSPECT REINFORCED ROCK BERM WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT
- 2. SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED ROCK BERM SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS WITHIN 5 INCHES OF THE CREST.
- 3. REINFORCED ROCK BERMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED. 4. WHEN REINFORCED ROCK BERMS ARE REMOVED, ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

(RRB) REINFORCED ROCK BERM (12)

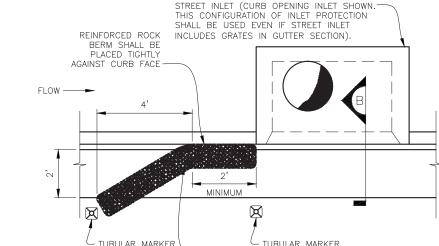




INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 LOCATIONS OF CULVERT INLET FILTERS. - LENGTH, "L", AND DEPTH, "D".
- 2. CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2), recycled concrete meeting this gradation may be used.
- 3. WIRE MESH SHALL BE FABRICATED OF 20 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
- 4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- 5. THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN THE CENTER OF THE BERM.
- 1. THE GESC MANAGER SHALL INSPECT CULVERT INLET FILTER WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- 2. SEDIMENT ACCUMULATED UPSTREAM OF CULVERT INLET FILTER SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS WITHIN 5 INCHES OF THE CREST.
- 3. RRB FOR CULVERT PROTECTION ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE COUNTY. 4. WHEN CULVERT INLET FILTERS ARE REMOVED, ANY DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.





(CURB OPENING INLET SHOWN)

SUBGRADE

WOOD STUD

AREA INLET

(TYPE C SHOWN)

INTERIM CONFIGURATION

(BEFORE PAVING) STREET INLET - PLAN

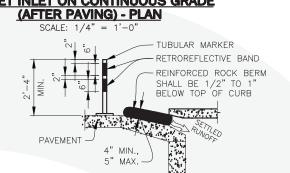
SECTION A

AREA INLET - PLAN

SECTION D

CONCRETE BLOCK



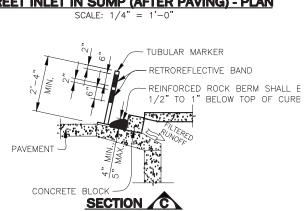


SECTION B

STREET INLET IN SUMP (AFTER PAVING) - PLAN

1-1/2" CRUSHED ROCK

- WIRE-ENCLOSED



— STREET INLET (CURB OPENING INLET SHOWN. THIS CONFIGURATION OF INLET PROTECTION

CONCRETE BLOCKS

ANY GAP AT JOINT SHALL BE

FILLED WITH 1-1/2" CRUSHED ROCK AND WRAPPED WITH ADDITIONAL WIRE MESH

SECURED TO ENDS OF ROCK
REINFORCED BERM

JOINT DETAIL

SHALL BE USED EVEN IF STREET INLET

INCLUDES GRATES IN GUTTER SECTION).

INLET PROTECTION INSTALLATION NOTES

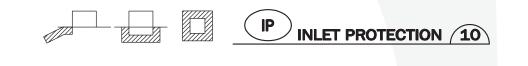
1. INTERIM CONFIGURATION OF INLET PROTECTION IN STREETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING INLET. INLET PROTECTION (AFTER PAVEMENT) SHALL BE INSTALLED WITHIN 48 HOURS AFTER PAVING IS PLACED. 2. INLET PROTECTION AT AREA INLETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING INLET.

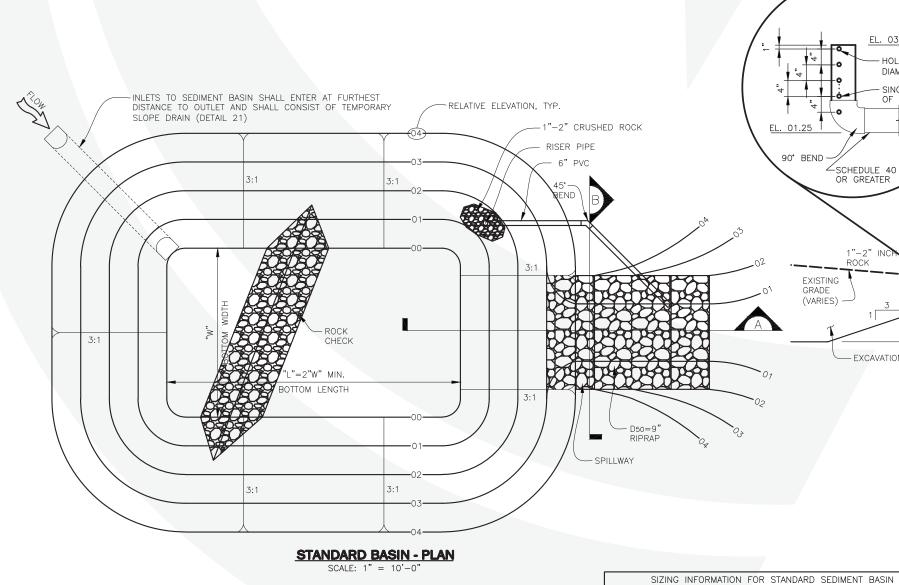
AGAINST CURB FACE

TUBULAR

- 3. CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2), recycled concrete meeting this gradation may be used.
- 4. WIRE MESH SHALL BE FABRICATED OF 20 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48—INCHES.
- 5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
- 6. REINFORCED ROCK BERM SHALL BE CONSTRUCTED IN ONE PIECE OR SHALL BE CONSTRUCTED USING JOINT DETAIL. 7. TUBULAR MARKERS SHALL MEET REQUIREMENTS OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS AMENDED.
- 8. THE TOP OF REINFORCED ROCK BERM SHALL BE 1/2"-1" BELOW TOP OF CURB. INLET PROTECTION MAINTENANCE NOTES
- 1. THE GESC MANAGER SHALL INSPECT INLET PROTECTION WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY. MORE FREQUENT INSPECTIONS AND REPAIRS SHALL BE REQUIRED DURING WINTER CONDITIONS DUE TO FREEZE/THAW PROBLEMS
- 2. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF ROCK BERM IS WITHIN 2-1/2 INCHES OF THE CREST.
- 3. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS THE COUNTY APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS. 4. WHEN INLET PROTECTION AT AREA INLETS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

EL. 03.00 ---- HOLE DIAMETER, "HD





- SEE JOINT DETAIL, THIS SHEET

┌ 10' MIN.

L₂" IN SOIL

- AREA INLET

O" ON PAVMENT

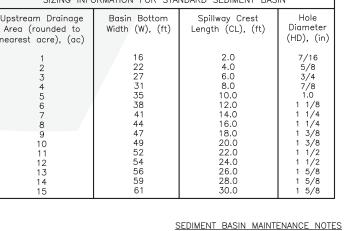
REINFORCED ROCK BERM

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:

 LOCATION OF SEDIMENT BASIN.

 TYPE OF BASIN (STANDARD BASIN OR NON-STANDARD BASIN)
- FOR STANDARD BASIN, CREST LENGTH, "CL", BOTTOM WIDTH, "W", AND HOLE DIAMETER, "HD".
 FOR NON-STANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT, "H", NUMBER OF COLUMNS, "N", HOLE DIAMETER, "HD", AND PIPE DIAMETER "D".
- 2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED. 3. SEDIMENT BASINS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER
- 4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- 5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D698. 6. PIPE SCH 40 OR GREATER SHALL BE USED.
- . THE DETAILS SHOWN ON THIS SHEET PERTAIN TO STANDARD SEDIMENT BASIN(S) IDENTIFIED ON THE GESC PLAN VIEW DRAWINGS USED FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.



TOP OF BASIN

RIPRAP BEDDING OR -

STANDARD BASIN - SECTION A CREST LENGTH MATERIAL TYP. EL. 01.0 (OR LOWER) UNDER EMBANKMENT BEDDING D50=9' RIPRAP SEF

STANDARD BASIN - SECTION B

- THE GESC MANAGER SHALL INSPECT SEDIMENT BASIN WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- 2. SEDIMENT ACCUMULATED IN SEDIMENT BASIN SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1.0 FOOT. 3. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS
- COVER IS APPROVED BY THE COUNTY. 4. IF SEDIMENT BASINS ARE REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.



Sheet Revisions NOTE: SCALES SHOWN ARE DOUGLAS COUNTY REISSUE FOR 24"x36' HEETS; ADJUS ACCORDINGLY FOR 11"x17 SHEETS.

- ALTERNATIVE TO STEPS ON BANKS ABOVE

CREST: DEFORM GABIONS AS NECESSARY
TO ALIGN TOP OF GABIONS WITH GROUND

ENCLOSED IN GABION

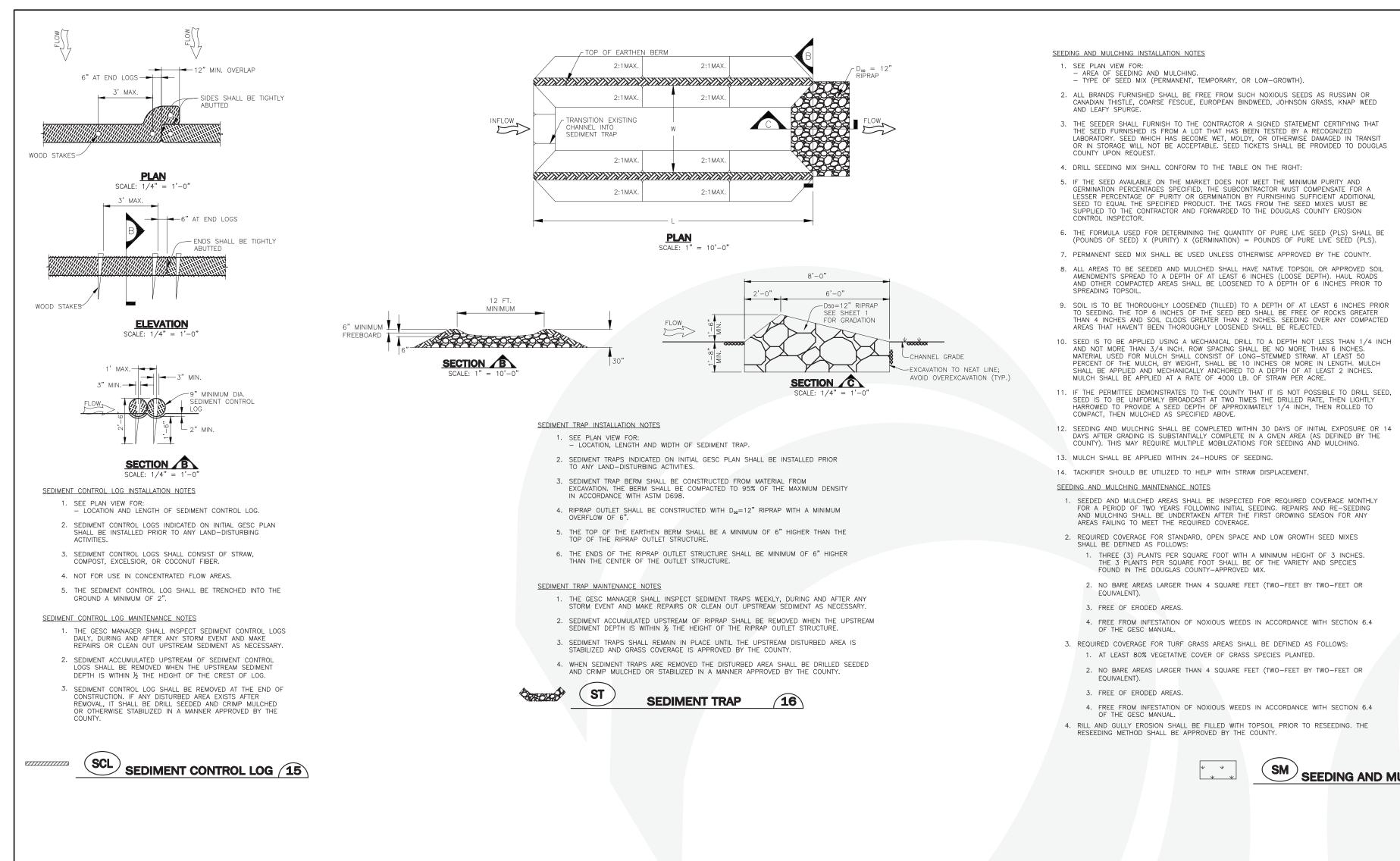
SURFACE; AVOID GAPS BETWEEN GABIONS

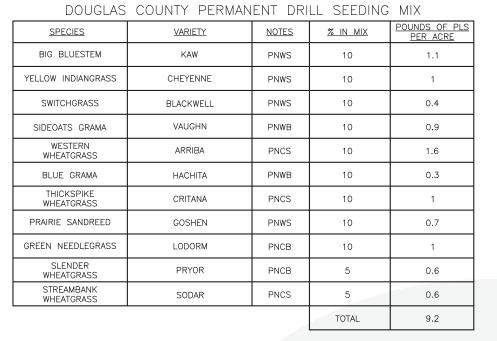
DEPTH 1'-6"

REINFORCED - SECTION A









DOUGLAS COUNTY TEMPORARY DRILL SEEDING MIX						
	<u>SPECIES</u>	VARIETY	<u>NOTES</u>	% IN MIX	POUNDS OF PLS PER ACRE	
	SMOOTH BROMEGRASS	LINCOLN	PICS	30	3.9	
	INTERMEDIATE WHEATGRASS	OAHE	PICS	30	4.5	
	PUBESCENT WHEATGRASS	LUNA	PICS	30	4.2	
	ANNUAL RYEGRASS	N/A	AICB	10	0.8	
				TOTAL	13.4	

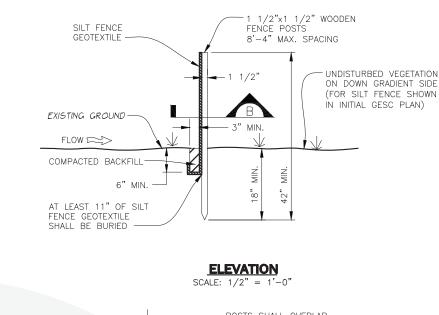
DOUGLAS COUNTY LOW-GROWTH DRILL SEEDING MIX						
SPECIES VARIETY NO		NOTES	% IN MIX	POUNDS OF PLS PER ACRE		
BUFFALOGRASS	TEXOKA	PNWS	20	3.2		
BLUE GRAMA	HACHITA	PNWB	20	0.6		
WESTERN WHEATGRASS	ARRIBA		20	3.2		
SIDEOATS GRAMA	VAUGHN	PNWB	20	1.8		
THICKSPIKE WHEATGRASS	CRITANA	PNCS	10	1		
STREAMBANK WHEATGRASS SODAR		PNCS	10	1.2		
			TOTAL	11.0		

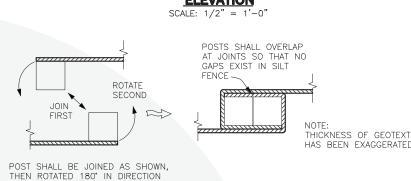
NOTES: P=PERENNIAL

C=COOL SEASON S=SOD FORMER

N=NATIVE I=INTRODUCED W=WARM SEASON

SM SEEDING AND MULCHING 17





JOINTS - SECTION B

SILT FENCE INSTALLATION NOTES

1. SEE PLAN VIEW FOR: - LOCATION AND LENGTH OF FENCE.

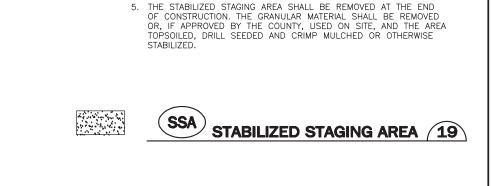
SHOWN AND DRIVEN INTO THE GROUND

2. ANCHOR TRENCH SHALL BE EXCAVATED WITH TRENCHER, OR WITH SILT FENCE INSTALLATION MACHINE; NO ROAD GRADERS, BACKHOES, ETC. SHALL BE USED. TRENCH SHALL BE COMPACTED BY HAND, WITH "JUMPING JACK", OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND. 3. SILT FENCE GEOTEXTILE SHALL MEET THE FOLLOWING REQUIREMENTS:

- 6-TO 12-GALLONS PER MINUTE PER SQUARE FOOT FLOW CAPACITY.
- 90 LB. TENSILE STRENGTH PER ASTM D462 - UV DESIGN AT 500 HRS MIN. 70% STRENGTH RETAINED PER ASTM D4355.
- 4. SILT FENCE INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND—DISTURBING ACTIVITIES.
- SILT FENCE MAINTENANCE NOTES
- 1. THE GESC MANAGER SHALL INSPECT SILT FENCE DAILY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY. 2. SEDIMENT ACCUMULATED UPSTREAM OF SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT REACHES A DEPTH OF 6-INCHES.
- 3. SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE COUNTY. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.



-STOP SIGN PER <u>MUTCD</u> STANDARDS



STAGING AREA FOR PARKING,

3" MIN. THICKNESS GRANULAR

PAVED AREA

STAGING AREA WITH COUNTY APPROVAL.

STABILIZED STAGING AREA INSTALLATION NOTES

OPERATIONS ON THE SITE.

STABILIZED STAGING AREA MAINTENANCE NOTES

SUBGRADE BECOMES EXPOSED.

<u>PLAN</u>

SEE PLAN VIEW FOR GENERAL LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED

2. STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY

3. IF REQUIRED BY THE COUNTY, SITE ACCESS ROADS SHALL BE STABILIZED IN THE SAME MANNER AS THE STAGING AREA.

4. STAGING AREA SHALL BE STABILIZED PRIOR TO ANY OTHER

ONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING

5. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF

3" OF GRANULAR MATERIAL (GRAVEL OR RECYCLED CONCRETE).

1. THE GESC MANAGER SHALL INSPECT THE STABILIZED STAGING AREA

WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE

2. GESC MANAGER SHALL PROVIDE ADDITIONAL THICKNESS OF GRANULAR MATERIAL IF ANY RUTTING OCCURS OR UNDERLYING

REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.

3. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO

CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING

4. ANY ACCUMULATED DIRT OR MUD SHALL BE REMOVED FROM THE SURFACE OF THE STABILIZED STAGING AREA.

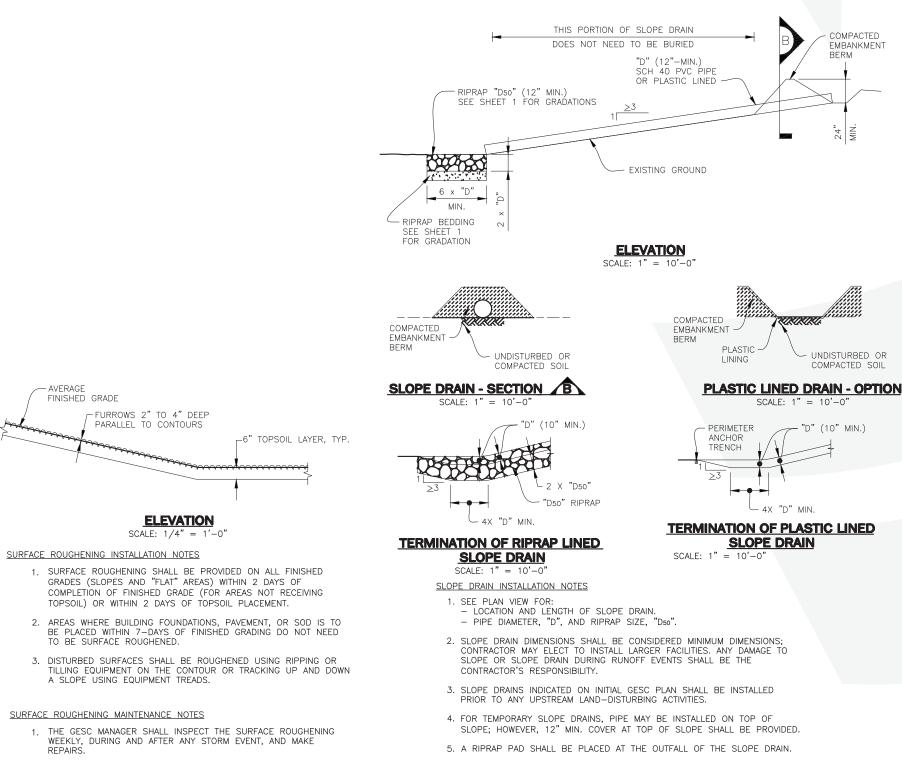
SEE DETAIL 24

STORAGE, LOADING AND

RECYCLED CONCRETE) -

SITE ACCESS -

JNLOADING STABILIZED WITH



SLOPE DRAIN MAINTENANCE NOTES

1. THE GESC MANAGER SHALL INSPECT SLOPE DRAINS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS AS NECESSARY.

2. TEMPORARY SLOPE DRAINS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION. WHEN SLOPE DRAINS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER

TSD TEMPORARY SLOPE DRAIN (21)

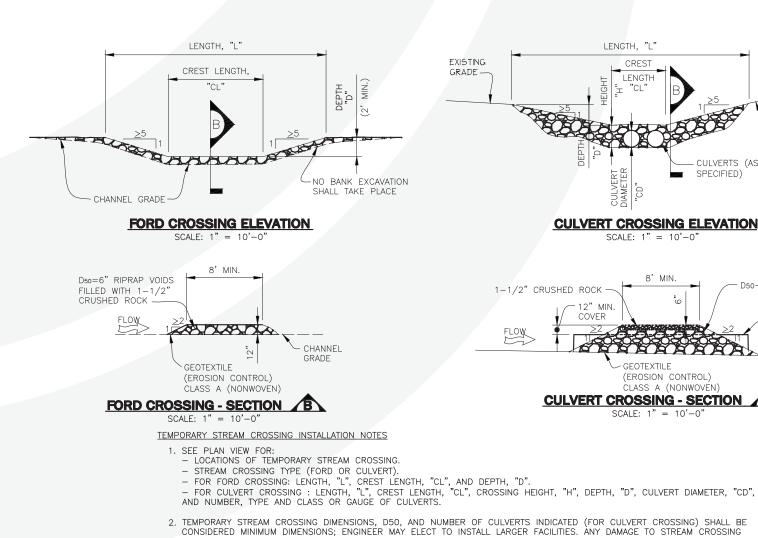
FINISHED GRADE

VEHICLES AND EQUIPMENT SHALL GENERALLY BE CONFINED TO ACCESS DRIVES AND SHALL NOT BE DRIVEN OVER AREAS THAT

3. IN NON—TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.

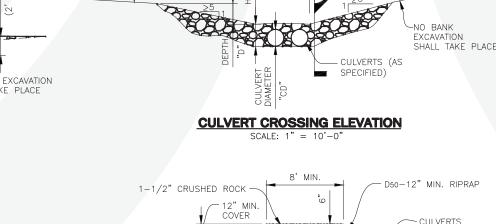
4. IN AREAS NOT SEEDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE—ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER ANY RILL

SURFACE ROUGHENING $\sqrt{20}$



THE DESIGN ENGINEER.

TEMPORARY STREAM CROSSING MAINTENANCE NOTES



LENGTH, '

- AREA OF SEEDING AND MULCHING.
- TYPE OF SEED MIX (PERMANENT, TEMPORARY, OR LOW-GROWTH).

AND LEAFY SPURGE.

COUNTY UPON REQUEST.

ANADIAN THISTLE, COARSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KNAP WEED

SUPPLIED TO THE CONTRACTOR AND FORWARDED TO THE DOUGLAS COUNTY EROSION

AND OTHER COMPACTED AREAS SHALL BE LOOSENED TO A DEPTH OF 6 INCHES PRIOR TO

AND NOT MORE THAN 3/4 INCH. ROW SPACING SHALL BE NO MORE THAN 6 INCHES.

MULCH SHALL BE APPLIED AT A RATE OF 4000 LB. OF STRAW PER ACRE.

COMPACT, THEN MULCHED AS SPECIFIED ABOVE.

SHALL BE DEFINED AS FOLLOWS:

3. FREE OF ERODED AREAS.

OF THE GESC MANUAL

3. FREE OF ERODED AREAS.

EQUIVALENT).

EQUIVALENT).

MATERIAL USED FOR MULCH SHALL CONSIST OF LONG—STEMMED STRAW. AT LEAST 50 PERCENT OF THE MULCH, BY WEIGHT, SHALL BE 10 INCHES OR MORE IN LENGTH. MULCH SHALL BE APPLIED AND MECHANICALLY ANCHORED TO A DEPTH OF AT LEAST 2 INCHES.

SEED IS TO BE UNIFORMLY BROADCAST AT TWO TIMES THE DRILLED RATE, THEN LICHTLY HARROWED TO PROVIDE A SEED DEPTH OF APPROXIMATELY 1/4 INCH, THEN ROLLED TO

AND MULCHING SHALL BE UNDERTAKEN AFTER THE FIRST GROWING SEASON FOR ANY AREAS FAILING TO MEET THE REQUIRED COVERAGE.

1. THREE (3) PLANTS PER SQUARE FOOT WITH A MINIMUM HEIGHT OF 3 INCHES. THE 3 PLANTS PER SQUARE FOOT SHALL BE OF THE VARIETY AND SPECIES FOUND IN THE DOUGLAS COUNTY-APPROVED MIX.

2. NO BARE AREAS LARGER THAN 4 SQUARE FEET (TWO-FEET BY TWO-FEET OR

2. NO BARE AREAS LARGER THAN 4 SQUARE FEET (TWO-FEET BY TWO-FEET OR

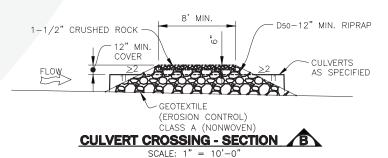
4. FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH SECTION 6.4

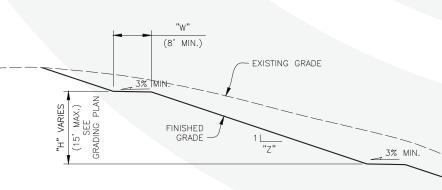
1. AT LEAST 80% VEGETATIVE COVER OF GRASS SPECIES PLANTED.

RESEEDING METHOD SHALL BE APPROVED BY THE COUNTY.

4. FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH SECTION 6.4

2. REQUIRED COVERAGE FOR STANDARD, OPEN SPACE AND LOW GROWTH SEED MIXES



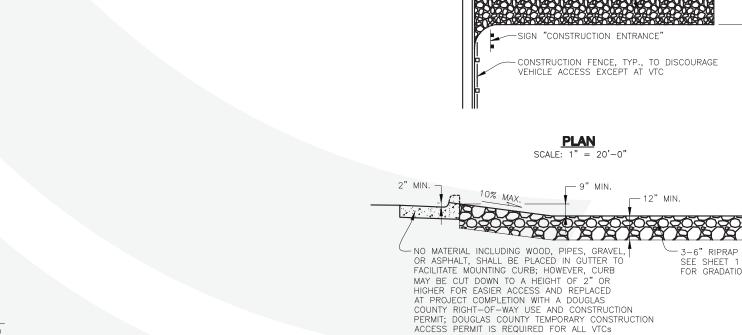


ELEVATION

TERRACING INSTALLATION NOTES 1. SEE PLAN VIEW FOR: - WIDTH, "W", AND SLOPE, "Z".

- 2. TERRACING IS NOT REQUIRED FOR SLOPES OF 4 TO 1 OR FLATTER. 3. EARTH (VEGETATED) SLOPES STEEPER THAN 3 TO 1 ARE NOT ALLOWED ON THE SITE.
- 1. THE GESC MANAGER SHALL INSPECT THE TERRACING WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
- 2. ANY RILL EROSION OCCURRING ON SLOPES SHALL BE REPAIRED AND RESEEDED AND MULCHED IN ACCORDANCE WITH DETAIL 17.
- **TERRACING**

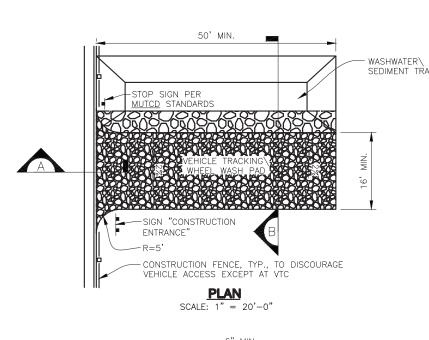


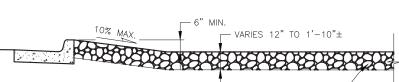


SECTION A

- VEHICLE TRACKING CONTROL INSTALLATION NOTES 1. VEHICLE TRACKING CONTROL PADS SHALL BE INSTALLED AT EVERY ACCESS POINT TO SITE.
- VEHICLE TRACKING CONTROL PADS SHALL CONSIST OF HARD, DENSE, DURABLE STONE, ANGULAR IN SHAPE AND RESISTANT TO WEATHERING. ROUNDED STONE OR BOULDERS WILL NOT BE ACCEPTABLE. THE STONES SHALL BE 3" WITH A MAXIMUM SIZE OF 6". THE STONE SHALL HAVE A SPECIFIC GRAVITY OF AT LEAST
- 2.6. CONTROL OF GRADATION WILL BE BY VISUAL INSPECTIONS. 3. ANY CRACKED OR DAMAGED CURB AND GUTTER AND SIDEWALK SHALL BE REPLACED BY PERMITTEE.
- 4. A DOUGLAS COUNTY TEMPORARY CONSTRUCTION ACCESS PERMIT IS REQUIRED FOR EACH POINT ONTO DOUGLAS COUNTY R.O.W.
- 5. A STOP SIGN INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS AMENDED, SHALL BE INSTALLED FOR EXITING TRAFFIC AT THE VTC. VEHICLE TRACKING CONTROL MAINTENANCE NOTES
- GESC MANAGER SHALL INSPECT VEHICLE TRACKING CONTROL DAILY, GRAVEL SURFACE SHALL BE CLEAN AND LOOSE ENOUGH TO RUT SLIGHTLY UNDER WHEEL LOADS AND CAUSE LOOSE GRAVEL TO DISLODGE MUD FROM TIRES. WHEN GRAVEL BECOMES COMPACTED OR FILLED WITH SEDIMENT SO THAT THE EFFECTIVENESS OF THE PAD IS DIMINISHED, CONTRACTOR SHALL RIP, TURN OVER, OR OTHERWISE LOOSEN GRAVEL, PLACE ADDITIONAL NEW GRAVEL, OR REPLACE WITH NEW GRAVEL AS NECESSARY TO RESTORE EFFECTIVENESS.
- 2. VEHICLE TRACKING CONTROL SHALL BE REMOVED AT THE END OF CONSTRUCTION, THE GRAVEL MATERIAL REMOVED OR, IF APPROVED BY THE COUNTY, USED ON SITE, AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED.

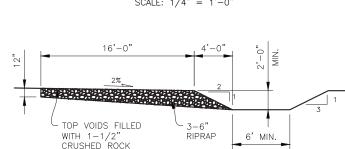






SECTION A

3-6" RIPRAP —





VEHICLE TRACKING CONTROL WITH WHEEL WASH INSTALLATION NOTES ALTHOUGH NOT NORMALLY USED, THE COUNTY RESERVES THE RIGHT TO REQUIRE VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITIES AT SITES WHERE TRACKING ONTO PAVED AREAS BECOMES A SIGNIFICANT PROBLEM.

2. IF VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITIES ARE REQUIRED, ALL WHEELS ON EVERY VEHICLE LEAVING THE SITE SHALL BE CLEANED OF MUD USING A PRESSURE—WASHER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER SOLVED.

3. VEHICLE TRACKING CONTROL PADS SHALL CONSIST OF HARD, DENSE, DURABLE STONE ANGULAR IN SHAPE AND RESISTANT TO WEATHERING. ROUNDED STONE OR BOULDERS WILL NOT BE ACCEPTABLE. THE STONES SHALL BE 3" WITH A MAXIMUM SIZE OF 6". THE STONE SHALL HAVE A SPECIFIC GRAVITY OF AT LEAST 2.6. CONTROL OF GRADATION WILL BE BY

4. ANY CRACKED OR DAMAGED CURB AND GUTTER AND SIDEWALK SHALL BE REPLACED BY CONTRACTOR.

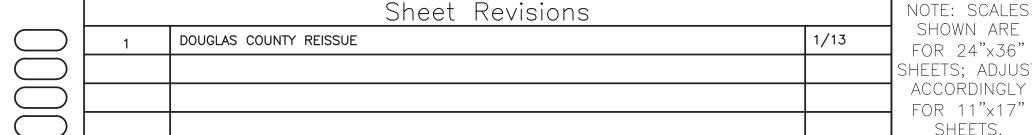
5. A STOP SIGN INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS AMENDED, SHALL BE INSTALLED FOR EXITING TRAFFIC AT THE VTC. VEHICLE TRACKING CONTROL WITH WHEEL WASH MAINTENANCE NOTES

1. GESC MANAGER SHALL INSPECT VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITIES DAILY. ACCUMULATED SEDIMENTS SHALL BE REMOVED FROM PAD SURFACE.

2. ACCUMULATED SEDIMENT IN THE WASHWATER/SEDIMENT TRAP SHALL BE REMOVED WHEN THE SEDIMENT DEPTH REACHES AN AVERAGE OF 12-INCHES.

3. VEHICLE TRACKING CONTROL WITH WHEEL WASH FACILITY SHALL BE REMOVED AT THE END OF CONSTRUCTION, THE RIPRAP MATERIAL REMOVED OR, IF APPROVED BY THE COUNTY, USED ON SITE, AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR







TEMPORARY STREAM CROSSING (22)

OR EXISTING STREAM CHANNEL DURING BASEFLOW OR FLOOD EVENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

1. THE GESC MANAGER SHALL INSPECT STREAM CROSSINGS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.

2. SEDIMENT ACCUMULATED UPSTREAM OF STREAM CROSSINGS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CROSSING IS WITHIN 6-INCHES OF THE CREST (FORD CROSSING) OR GREATER THAN AN AVERAGE

3. STREAM CROSSINGS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION.

4. WHEN STREAM CROSSINGS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE

4. FOR A TEMPORARY STREAM CROSSING THAT WILL CARRY LOADS, THE TEMPORARY STREAM CROSSING MUST BE DESIGNED BY

3. SEE SHEET 1 FOR RIPRAP AND 1-1/2" CRUSHED ROCK GRADATIONS.



2180 SOUTH INTERSTATE 25, 5TH REVISION

PART OF THE N 1/2 OF SECTION 27, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH P.M. 5.55 ACRES

SITE IMPROVEMENT PLAN SP2024-058 (REVISION TO US02-003)

THE FIRST BAPTIST CHURCH OF CASTLE ROCK, COLORADO 2180 S INTERSTATE 25

CASTLE ROCK, COLORADO 80104 (303) 688 - 3745MR. CHARLES VAUGHAN

(303) 989-4500

MR. KEVIN CALME

ARCHITECT: LEE ARCHITECTS 2525 S. WADSWORTH BLVD, SUITE 21 DENVER, COLORADO 80227

CIVIL ENGINEER: CKE ENGINEERING, INC. 14257 W. EVANS CIRCLE LAKEWOOD, COLORADO 80228 (303) 917-1757 MR. JOE COCO

LANDSCAPE ARCHITECT:

NURTURE DESIGN 8047 LODGEPOLE TRAIL LONE TREE, COLORADO 80125 (970) 779-0799 MS. KELLY HYZY

PURPOSE:

- TO CONSTRUCT A 5.496 SF RELIGIOUS EDUCATION BUILDING ADDITION INCLUDING THE FOLLOWING:
- 1. CONSTRUCT A FIRE LANE EAST OF THE BUILDING ADDITION.
- 2. REMOVE AN EXISTING 1,400SF MODULAR BUILDING.
- 3. RELOCATE AND CONSTRUCT A NEW TRASH ENCLOSURE.
- 4. RELOCATE THE EXISTING PLAYGROUND. 5. RELOCATE THE EXISTING PAVILION SHELTER.

MODIFICATIONS TO THE PREVIOUSLY APPROVED USR SITE PLAN US02-003.

ITEM	CURRENTLY APPROVED	THIS REVISION	
BUILDING FOOTPRINT/ SIZE	40,000	15,506	
ACCESSORY STRUCTURES	0	0	
PARKING/ DRIVES	91,472	82,981	
SIDEWALKS/PATIOS	4,051	8,761	
LANDSCAPE	106,234	144,903	
SEATS IN SANCUARY	560	250	
PARKING SPACES	163	85 (PAVED) + 78 (OVERFLOW)	

FUTURE PHASES NOTE:

FOR ALL FUTURE PHASES, THE APPLICANT SHALL SUBMIT A REVISED SITE IMPROVEMENT PLAN OF THE PHASE FOR WHICH A PERMIT IS REQUESTED. THIS REVISED SIP SHALL BE APPROVED PRIOR TO ISSUANCE OF A BUILDING PERMIT.

PUBLIC RIGHT-OF-WAY IMPROVEMENTS NOTE:

SIP IMPROVEMENTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL BE OWNED BY DOUGLAS COUNTY, EXCEPT THAT THE MAINTENANCE OF THE PAVEMENT AND LANDSCAPING WITHIN THE ACCESS TO THE SITE SHALL REMAIN WITH THE OWNER / DEVELOPER.

LEGAL DESCRIPTION:

A PARCEL OF LAND SITUATED IN THE NORTH 1/2 OF SECTION 27, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF DOUGLAS, STATE OF COLORADO, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 27; THENCE NORTH 89 DEGREES 06 MINUTES 50 SECONDS WEST, ALONG THE NORTH LINE OF SAID SECTION, A DISTANCE OF 2726.17 FEET TO THE EASTERLY RIGHT OF WAY LINE OF INTERSTATE HIGHWAY 25; THENCE SOUTH 15 DEGREES 40 MINUTES 50 SECONDS WEST, ALONG SAID EASTERLY RIGHT OF WAY LINE, A DISTANCE OF 933.24 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 89 DEGREES 09 MINUTES 06 SECONDS EAST, ALONG THE SOUTHERLY LINE OF THE PARCEL OF LAND DESCRIBED IN BOOK 1172 AT PAGE 2301 OF THE DOUGLAS COUNTY RECORDS, A DISTANCE OF 633.71 FEET; THENCE SOUTH 16 DEGREES 28 MINUTES 22 SECONDS WEST, A DISTANCE OF 415.10 FEET; THENCE NORTH 89 DEGREES 09 MINUTES 06 SECONDS WEST, A DISTANCE OF 627.77 FEET TO SAID EASTERLY RIGHT OF WAY LINE OF INTERSTATE HIGHWAY 25; THENCE NORTH 15 DEGREES 40 MINUTES 50 SECONDS EAST, ALONG SAID EASTERLY LINE, A DISTANCE OF 413.55 FEET TO THE POINT OF BEGINNING.





VICINITY MAP

SHEET INDEX

- 1 OF 9 COVER SHEET
- 2 OF 9 SITE PLAN
- 3 OF 9 GRADING PLAN 4 OF 9 LANDSCAPE PLAN
- 5 OF 9 LANDSCAPE NOTES AND DETAILS 6 OF 9 EXTERIOR ELEVATIONS
- 7 OF 9 EXTERIOR ELEVATIONS
- 8 OF 9 EXTERIOR ELEVATIONS
- 9 OF 9 LIGHTING DETAILS

SITE DATA TABLE:

ITEM	SF	% OF GROSS SITE	
SITE AREA	252,151	100%	
* Building Footprint	15,506	6.2%	
* Parking/ Drives	53,979	21.4%	
* Overflow Parking (Gravel)	29,002	11.5%	
* Sidewalks/ Patios	8,761	3.5%	
HARDSCAPE TOTAL	107,248	42.6%	
* Planted Area	15,922	6.3%	
* Existing Vegetation	128,981	51.1%	
LANDSCAPED TOTAL	144,903	57.4%	
ITEM	DESCRIPTI	ON	
Building: 1 Story + Temp Building	15,506 sq. ft. TOTAL		
Parking: * Required Seats 250	84 (1sp/	3 seats)	
 * Total Required Parking * Full Sized Parking Provided * Compact Parking Provided * Total Provided Parking 	84 63 <u>22</u> (26%) 85 (+78 Overflow) 4 (1 van) 4 (1 van)		
* Handicap Parking Required* Handicap Parking Provided			

SITE SPECIFIC NOTES:

- 1. THIS SITE IMPROVEMENT PLAN (SIP) IS FOR A CHURCH WITH A MAXIMUM SEATING CAPACITY IN THE MAIN WORSHIP AREA OF NO MORE THAN 250 SEATS.
- 2. THE TRAFFIC IMPACT STUDY SUBMITTED TO AND ACCEPTED BY DOUGLAS COUNTY ENGINEERING ESTIMATES 562 VEHICLE-TRIPS ON A TYPICAL SUNDAY BASED UPON TWO REGULAR SERVICES. ACCESS TO THE INTERSTATE 25 FRONTAGE ROAD IS APPROVED BY THE COLORADO DEPARTMENT OF TRANSPORTATION AND DOUGLAS COUNTY.
- 3. THE CHURCH WILL OBTAIN APPROVAL OF A PUBLIC WATER SYSTEM FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) AS A TRANSIENT NON-COMMUNITY DRINKING WATER SYSTEM AND ABIDE BY ALL ONGOING CDPHE REQUIREMENTS FOR SUCH SYSTEM.
- 4. THE FIRE SUPPRESSION SYSTEM WILL BE DESIGNED AND INSTALLED AS REQUIRED BY COUNTY CODE AND THE LOCAL FIRE DEPARTMENT. WATER WILL BE PROVIDED BY ON-SITE UNDERGROUND STORAGE TANKS AND WILL BE MAINTAINED FOR ACCESS AND USE BY THE FIRE DEPARTMENT.

APPROVAL CERTIFICATE

• FAILURE TO OBTAIN A BUILDING PERMIT WITHIN THREE (3) YEARS AFTER THE DATE OF THE SIP APPROVAL, AS NOTED ON THE NOTICE OF ACTION - FINAL STATUS, SHALL CAUSE THE UNBUILT

PORTION OF THIS SIP TO BE NULL AND VOID, UNLESS AN EXTENSION WAS GRANTED.

• ACCEPTANCE OF SITE CONSTRUCTION DRAWINGS BY DOUGLAS COUNTY ENGINEERING

SERVICES SHALL BE REQUIRED (AS APPLICABLE) PRIOR TO ISSUANCE OF BUILDING

• SIGNS SHOWN HEREON ARE <u>NOT</u> APPROVED. ALL SIGNS REQUIRE APPROVAL OF A SIGN PERMIT IN ACCORDANCE WITH THE SIGN STANDARDS SECTION OF THE DOUGLAS

ACKNOWLEDGED BEFORE ME THIS______ DAY OF______, 2024, BY _____

THE UNDERSIGNED AS THE OWNER OR OWNER'S REPRESENTATIVE OF THE LANDS DESCRIBED HEREIN

HEREBY AGREE ON BEHALF OF ITSELF AND ITS SUCCESSORS AND ASSIGNS TO DEVELOP AND MAINTAIN THE PROPERTY DESCRIBED HEREON IN ACCORDANCE AND COMPLIANCE WITH THIS APPROVED SIP AND

THE FIRST BAPTIST CHURCH OF CASTLE ROCK, COLORADO A COLORADO NONPROFIT CORPORATION

____ AND _____ AS ____

THE FIRST BAPTIST CHURCH OF CASTLE ROCK, COLORADO A COLORADO NONPROFIT CORPORATION

PERMITS. ACCEPTANCE OF SITE CONSTRUCTION DRAWINGS EXPIRES THREE YEARS

THIS SITE IMPROVEMENT PLAN HAS BEEN REVIEWED AND FOUND TO BE COMPLETE AND IN ACCORDANCE WITH DOUGLAS COUNTY REGULATIONS.

ENGINEERING SERVICES

PLANNING SERVICES

ATTEST: (IF CORP)

SECRETARY/ TREASURER

STATE OF COLORADO COUNTY OF _____

MY COMMISSION EXPIRES:

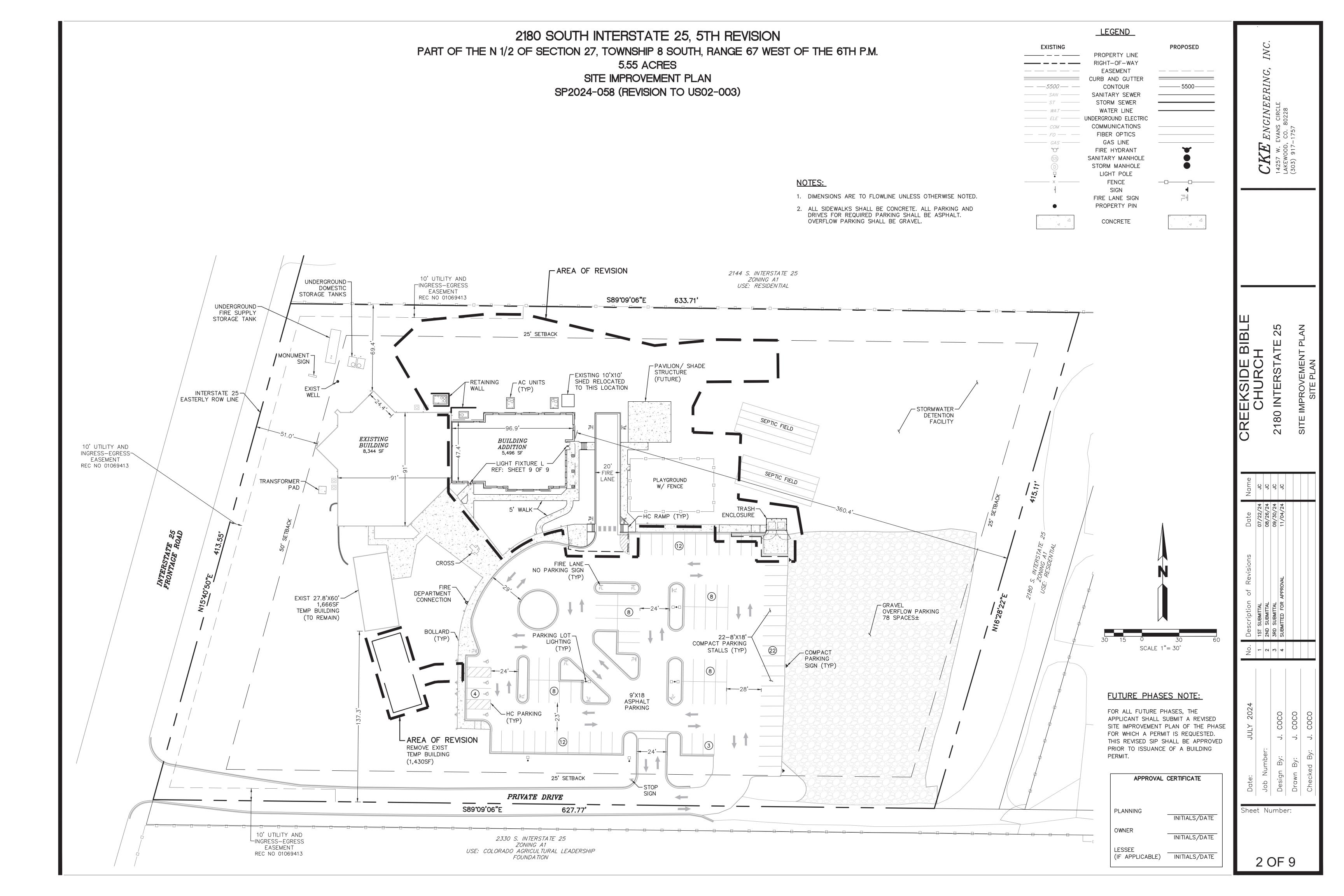
WITNESS MY HAND AND OFFICIAL SEAL.

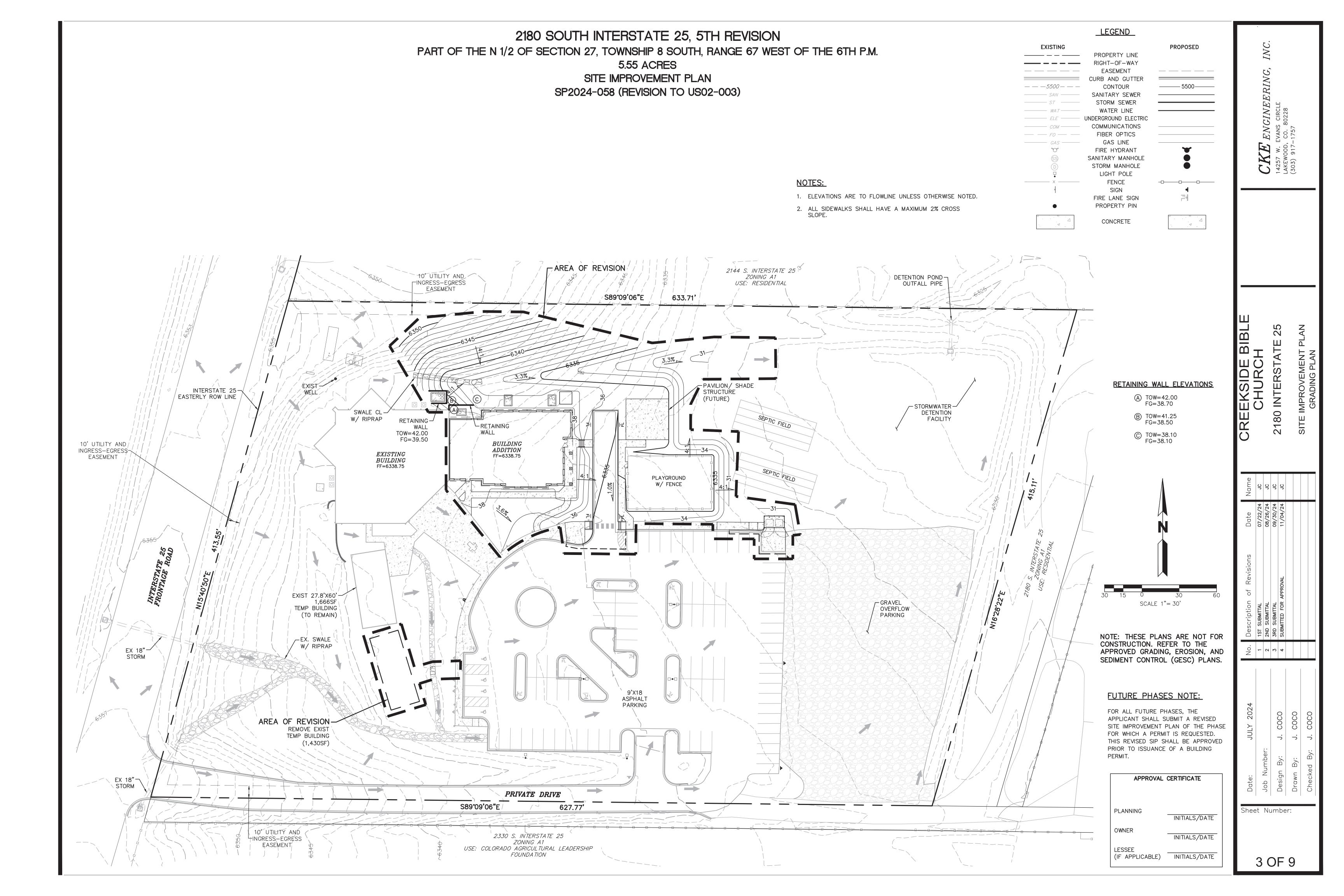
AFTER THE DATE OF SIGNATURE.

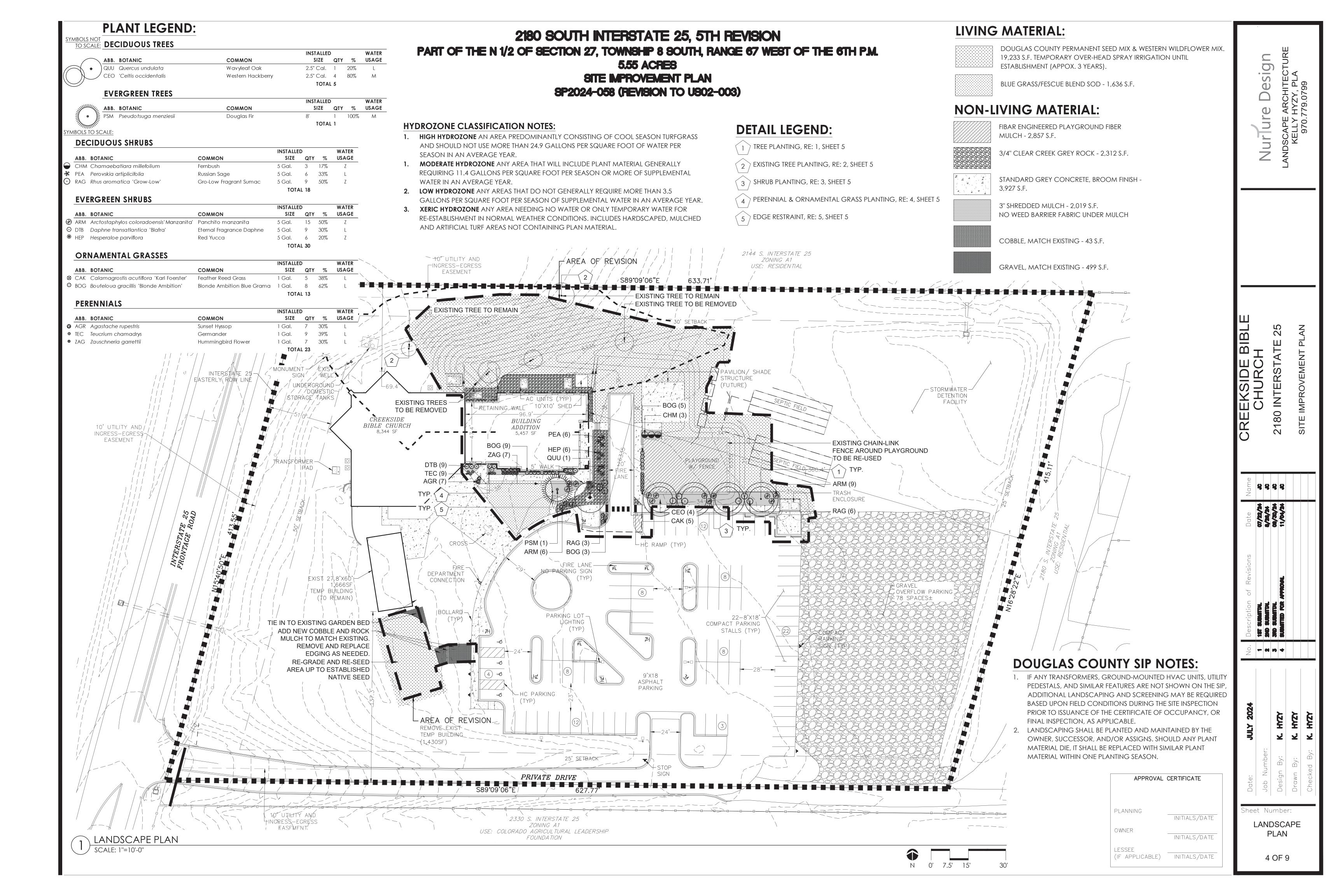
THE DOUGLAS COUNTY ZONING RESOLUTION.

COUNTY ZONING RESOLUTION.

JULY 2024	No.	No. Description of Revisions	Date	Name
	-	1ST SUBMITTAL	07/22/24	ರ
	2	2ND SUBMITTAL	08/26/24	2
	3	3RD SUBMITTAL	09/30/24	ರ
J. COCO	4	SUBMITTED FOR APPROVAL	11/04/24	၁၄
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GENERAL NOTES:

2180 SOUTH INTERSTATE 25, 5TH REVISION PART OF THE N 1/2 OF SECTION 27, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH P.M.

5.55 ACRES CONTRACTOR TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO BEFORE DIGGING, INCLUDING BUT NOT LIMITED

SITE IMPROVEMENT PLAN **SP2024-058 (REVISION TO US02-003)**

EXISTING CONDITIONS PRIOR TO CONSTRUCTION. FAILURE TO INSPECT THE SITE PRIOR TO CONSTRUCTION SHALL NOT BE CAUSE FOR REQUESTING ADDITIONAL MONIES BY THE CONTRACTOR.

THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.

CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS

CONTRACTOR SHALL REPORT SUCH CONDITIONS TO THE OWNER.

5. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR FOR SAFETY PRECAUTIONS OR PROBLEMS UTILIZED IN CONNECTION WITH THE WORK, AND HE/SHE WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

TO, TRENCHING, SHRUB AND TREE PLANTING PITS. IF UTILITIES OCCUR WITHIN (3) THREE FEET OF PROPOSED FOOTINGS, THE

CONTRACTOR IS RESPONSIBLE FOR FULL ON-SITE INVESTIGATIONS AS NEEDED IN ORDER TO GAIN A FULL UNDERSTANDING OF

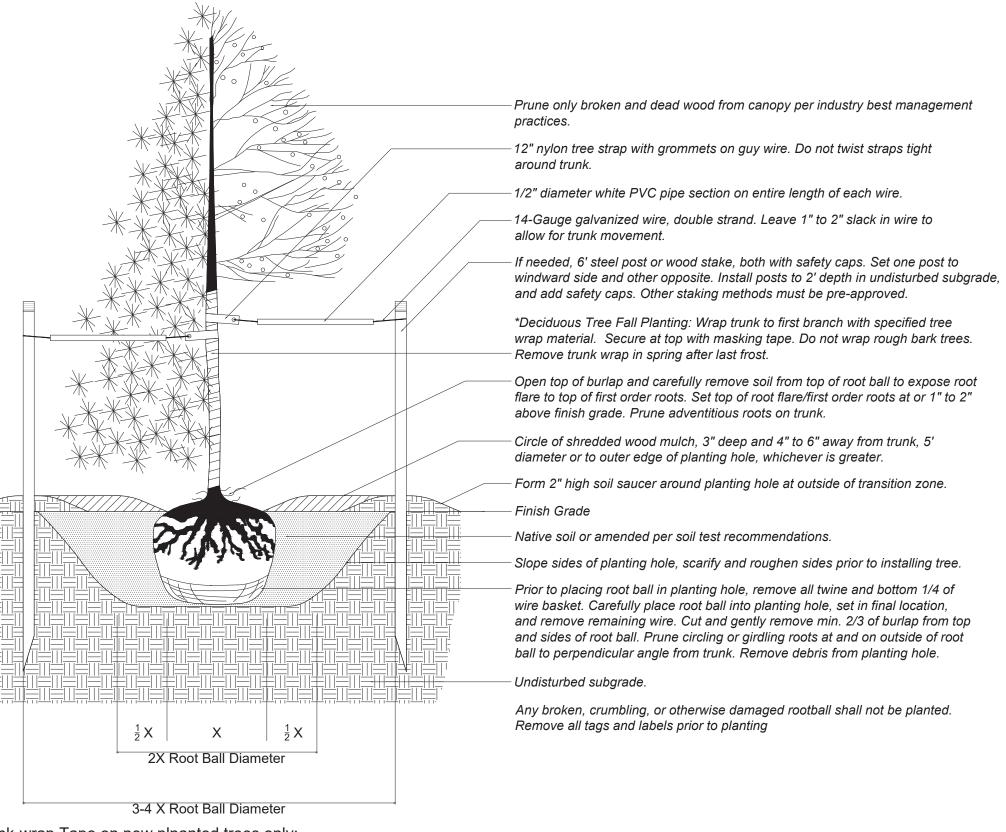
VERIFY ALL CONDITIONS AT THE JOB SITE AND NOTIFY LANDSCAPE ARCHITECT AND THE OWNER'S REP. IMMEDIATELY OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

LANDSCAPE NOTES:

- ALL NEW LANDSCAPE AND IRRIGATION SHALL BE UNDER WARRANTY FOR A PERIOD OF (1) YEAR. THE WARRANTY PERIOD SHALL COMMENCE ONCE ALL PUNCH LIST ITEMS ARE SATISFACTORY COMPLETED AND A LETTER OF FINAL COMPLETION IS PROVIDED FROM THE OWNER'S REPRESENTATIVE. ALL LANDSCAPE AND IRRIGATION MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1 YEAR AFTER THE FINAL COMPLETION IS PROVIDED IN WRITING.
- PLANT MATERIAL AND BED LOCATIONS TO BE STAKED BY THE LANDSCAPE CONTRACTOR FOR REVIEW BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT. ALL ADJUSTMENTS SHALL BE MADE BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT DIG PLANT PITS UNTIL LOCATIONS ARE APPROVED.
- ROUGH GRADING TO PLUS OR MINUS ONE TENTH OF A FOOT BY GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE FINISH GRADING IN ALL LANDSCAPE AREAS. LANDSCAPE CONTRACTOR TO APPROVE ROUGH GRADES PRIOR TO MOBILIZATION. MOBILIZATION ON THE PART OF THE LANDSCAPE CONTRACTOR WILL INDICATE THAT ROUGH GRADING IS ACCEPTABLE TO THE LANDSCAPE CONTRACTOR, AND THEREFORE BE RESPONSIBLE FOR PROVIDING ALL FINISHED GRADES TO MEET THE CIVIL GRADING PLANS.
- TREES AND SHRUBS WILL BE INSPECTED ON-SITE. LANDSCAPE PLANT MATERIALS MAY BE REJECTED AT ANY TIME DUE TO ISSUES OF QUALITY.
- ALL PLANT MATERIAL SHALL MEET OR EXCEED CURRENT AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1 AND THE COLORADO NURSERY ACT AND ACCOMPANYING RULE AND REGULATIONS

SOIL PREPARATION:

- APPLY AMENDMENTS IN TURF AND PLANTING BEDS TO THESE SPECIFICATIONS UNLESS SOILS REPORT STATES OTHERWISE: 1.1. AGED ORGANIC MATTER: 4 CUBIC YARDS PER 1000 S.F. FREE OF WEED OR OTHER NOXIOUS PLANT SEEDS, LUMPS, STONES, OR
- OTHER FOREIGN CONTAMINANTS HARMFUL TO PLANT LIFE. ACCEPTABLE COMPOST PRODUCT: CLASS I COMPOST, SUCH AS ECOGRO OR BIO-COMP, AS PROVIDED BY A1 ORGANICS, EATON, CO, OR APPROVED EQUAL.
- 1.2. MILORGANITE NATURAL SLOW RELEASE FERTILIZER OR EQUAL: SEE MANUFACTURERS RECOMMENDATIONS FOR LAWN AND BED
- APPLICATION RATES 2. AFTER APPLYING SOIL AMENDMENTS, THOROUGHLY TILL AREA TO DEPTH OF 6" MINIMUM, BY TILLING UNTIL SOIL IS WELL PULVERIZED
- 3. FINISH GRADE TO BE BELOW THE EDGE OF PAVEMENT OR EDGE RESTRAINT, PRIOR TO SODDING, PLANTING OR REPLACING GROUND-COVER MATERIAL:
- SODDED AREAS: ALLOW 1 INCH FOR SOD
- 3.2. PLANTING AND GRAVEL AREAS: ALLOW 4 INCHES FOR WOOD OR GRAVEL MULCH



*Trunk-wrap Tape on new plnanted trees only:

TREE PLANTING

- Two layers of crinkled paper cemented together with bituminous material, 4 inches (102 mm) wide min.
- 2. Wrap trees with trunk-wrap tape. start at base of trunk and spiral cover trunk to height of first branches. overlap wrap, exposing half the width, and securely attach without causing girdling. do not use staples. inspect tree trunks for injury, improper pruning, and insect infestation and take corrective measures required before wrapping. do not wrap rough bark, populus or gleditsia trees. remove wrap in
- 2.1. No tree shall be wrapped after may 21 or before november 1.
- 2.2. All deciduous trees shall be wrapped by nov. 15. remove tree wrap by may 15.
- Contractor shall be responsible for wrapping and unwrapping trees during the warranty period.

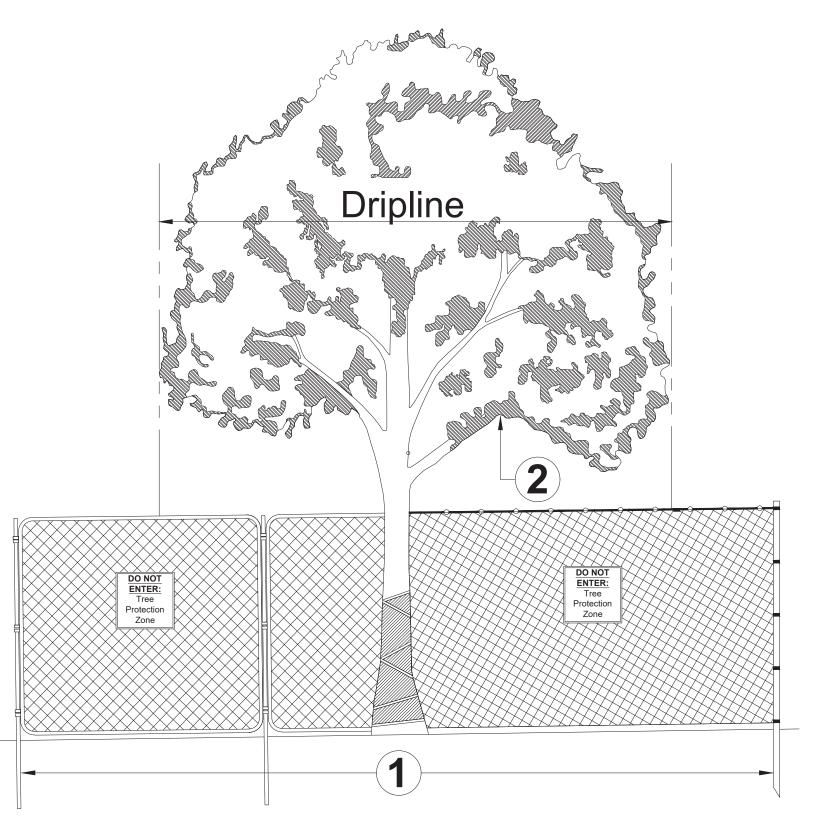
EXISTING TREE PROTECTION

IRRIGATION CONCEPT:

- AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A QUALIFIED IRRIGATION CONTRACTOR.
- 2. THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WELL WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACK-FLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
- 3. ALL NON-TURF PLANTED AREAS WILL BE DRIP IRRIGATION.
- SODDED/SEEDED AREAS SHALL BE IRRIGATED WITH SPRAY OR ROTOR HEADS AT 100% HEAD-TO-HEAD
- 5. ALL PLANTS WITH SIMILAR HYDRO-ZONE CHARACTERS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDRO-ZONE
- 6. THE IRRIGATION SYSTEM SHALL DESIGNED AND INSTALLED, THE MINIMUM EXTEND POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVISES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTO AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.
- 7. IRRIGATION BACK-FLOW PREVENTER SHALL BE SCREENED BY LANDSCAPING, IRRIGATION CONTROLLER SHALL BE SCREENED BY LANDSCAPING. EQUIPMENT SHALL BE IN A VANDAL PROOF LOCKABLE CABINET OR LOCATED WITHIN THE BUILDING UTILITY CLOSET

SEED ESTABLISHMENT NOTES:

- IF POSSIBLE, SEED SHALL BE DRILL SEEDED IN EARLY SPRING.
- 2. THE LANDSCAPE CONTRACTOR SHALL SEED ALL NATIVE SEED AREAS AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING OPERATIONS. SOIL PREPARATION MEASURES IN A AREAS TO BE SEEDED SHALL BE COMPLETED PRIOR TO SEEDING.
- FOR PROPER ESTABLISHMENT SEED SHALL BE INSTALLED WHEN AT LEAST THREE MONTHS REMAIN IN THE GROWING SEASON. IF LESS THAN THREE MONTHS REMAIN IN THE GROWING SEASON, AT THE TIME OF SEEDING, THE LANDSCAPE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND OWNER. THE IRRIGATION SYSTEM FOR SEEDED AREAS SHALL BE FULLY OPERATION AT THE TIME OF SEEDING
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADDITIONAL CORRECTIVE MEASURES, AT HIS OWN COST, TO SATISFY ESTABLISHMENT REQUIREMENTS AND ENSURE TIMELY CLOSEOUT. THESE MEASURES MAY INCLUDE, AT THE OWNER'S OPTION, RE-SEEDING OF SPARSELY GERMINATED AREAS.



Area 1: Tree Protection Zone and Critical Root Zone Protection

The Tree Protection Zone (TPZ) shall be equal to dripline or 1.5 feet radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5' above soil line), whichever is greater.

- A. Min 6' in height steel chain link fence is required. Steel chain link fence panels or rolls are acceptable.
- 1. When chain link rolls are installed, it shall be fastened to heavy duty steel posts with safety caps at minimum five (5) attachment points with 12-gauge wire, including points at top and bottom. Weave wire through top of roll to eliminate sag.
- 2. Posts shall be driven 2' to 3' below grade and spaced at max. five to ten foot (5' 10') o.c. intervals. Fencing must be kept taut at all times.
- 3. TPZ, shall be maintained in the location and condition until site improvments are completed.

Area 2: Canopy Protection

Protect canopy and minimize damage. Prune as needed for any clearance issues prior to performing work.

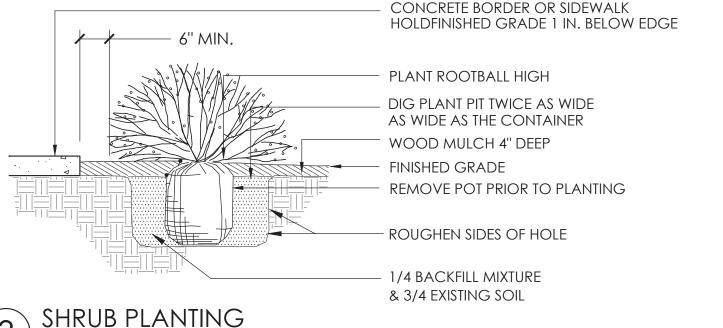
- TPZ shall not be resized, modified, removed, or altered in any manner.
- Entrance/access to the TPZ is not permitted.
- No materials, debris, equipment, or site amenities shall be stored within the TPZ.
- While TPZ fencing is in place, trees shall be deep-root watered at an interval of once every two weeks when temperatures are at or above 40 degrees F. Trees shall be watered at the rate of twenty-five (25) gallons per inch

SCALE: N.T.S

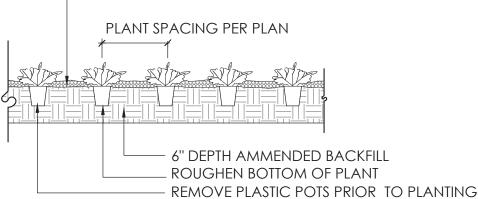
MULCHING NOTES:

- MULCH IN PLANTING BEDS AND AROUND TREES: SHRUB BED/PLANTING AREAS SHALL BE MULCHED TO A
- 2. NO WEED BARRIER FABRIC SHALL BE INSTALLED UNDER WOOD OR 3/4" ROCK MULCH OR ON TOP OF TREE ROOT-BALLS. WEED BARRIER FABRIC TO BE USED ONLY UNDER ROCK MULCH WITHOUT PLANTINGS.
- 3. MULCH SHALL BE NATURAL SHREDDED WESTERN CEDAR NOT LARGER THAN FOUR INCHES (4") IN LENGTH AND CERTIFIED PATHOGEN, WEED AND CHEMICAL FREE. MULCH TO BE HARVESTED IN A SUSTAINABLE MANNER FROM A LOCAL SOURCE.
- 4. SURFACE COVERAGE SHALL BE A MINIMUM 3FT RADIUS FROM THE TRUNK FOR TREES WHERE POSSIBLE; AND MULCH SHALL BE KEPT A MINIMUM OF 4-6IN AWAY FROM TREE TRUNKS AND NOT TOUCHING THE BASE OF OTHER WOODY LANDSCAPE PLANTS.
- 5. NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED.
- 6. ALL PLANTING AREAS WITH SLOPES 4:1 OR STEEPER SHALL RECEIVE COCONUT FIBER EROSION CONTROL NETTING FROM ROLLS OR APPROVED TACKIFIER.

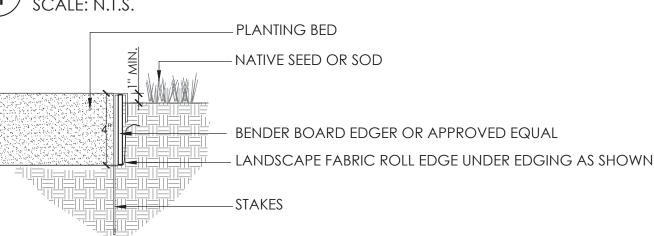
PRUNE ALL DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING



WOOD MULCH 4" DEEP (AFTER SETTLEMENT). NOTE: MULCH DEPTH AROUND PLANT BASE MAY BE THINNER. DO NOT BURY PLANT FOLIAGE WITH MULCH



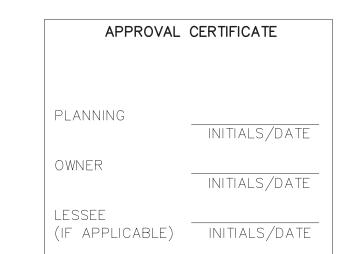
PERENNIAL & ORNAMENTAL GRASS PLANTING SCALE: N.T.S.



- 1. CONTRACTOR TO SUBMIT SAMPLE PRIOR TO ORDERING MATERIAL OR DELIVERING TO SITE.
- 2. NO EDGER REQUIRED WHEN MULCH ADJACENT TO PAVEMENT, BORDER, OR WALLS. 3. SET ALL EDGING 1" ABOVE FINISH GRADE AS SHOWN.
- 4. EDGING SHALL BE INSTALLED AT ALL TRANSITIONS INCLUDING:
- 4.1. GRAVEL OR WOOD MULCH NEXT TO NATIVE GRASS OR SOD 5. EDGING SHALL ABUT CONCRETE CURBS AND WALKS PERPENDICULAR, AND SHALL BE FLUSH WITH
- GRADES OF CONCRETE. 6. ALL JOINTS TO BE SECURELY STAKED.
- 7. CONTRACTOR SHALL CUT TOP EDGE(S) AS NEEDED TO BE PARALLEL WITH GRADE.

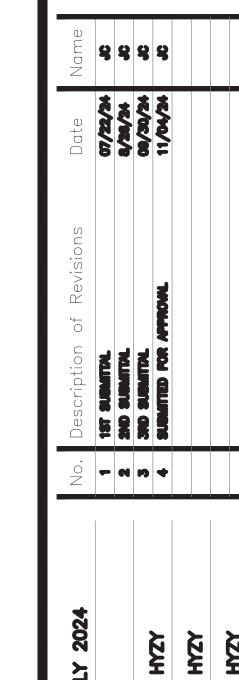
EDGE RESTRAINT

SCALE: N.T.S.



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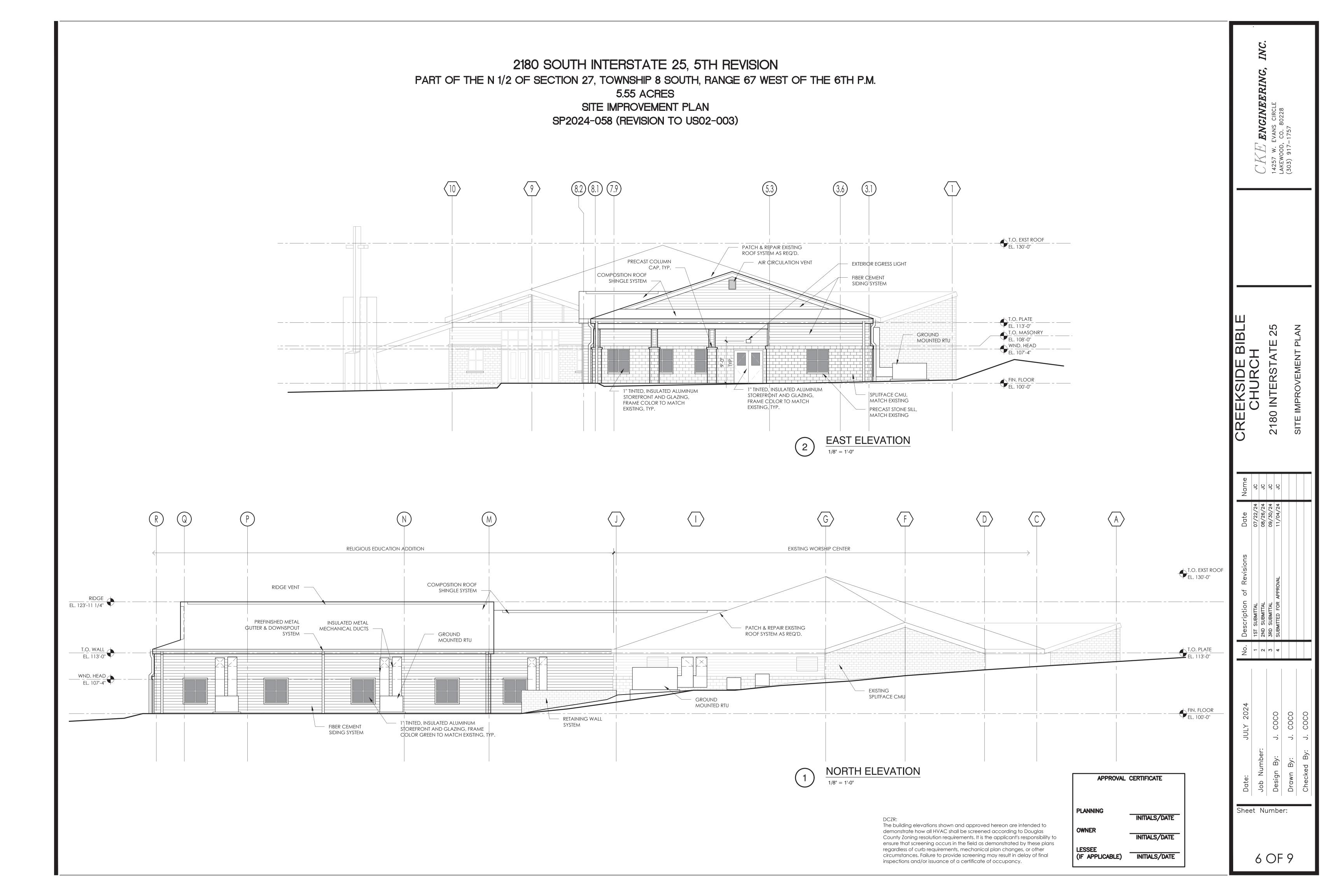
2



Sheet Number:

LANDSCAPE NOTES & DETAILS

5 OF 9



2180 SOUTH INTERSTATE 25, 5TH REVISION PART OF THE N 1/2 OF SECTION 27, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH P.M. 5.55 ACRES SITE IMPROVEMENT PLAN SP2024-058 (REVISION TO US02-003) RELIGIOUS EDUCATION ADDITION EXISTING WORSHIP CENTER COMPOSITION ROOF SHINGLE SYSTEM COMPOSITION ROOF SHINGLE SYSTEM RIDGE EL. 123'-11 1/4" FIBER CEMENT FACIA SYSTEM PREFINISHED METAL GUTTER & DOWNSPOUT FIBER CEMENT FACIA SYSTEM T.O. MASONRY EL. 108'-0" 2180 INTERSTATE 1" TINTED, INSULATED ALUMINUM STOREFRONT AND GLAZING, FRAME COLOR TO MATCH EXISTING, TYP. — FIBER CEMENT SIDING SYSTEM - SPLITFACE CMU, MATCH EXISTING 1" INSULATED ALUMINUM STOREFRONT WITH TINTED GLAZING AND DOORS -PRECAST STONE SILL, MATCH EXISTING SOUTH ELEVATION EXISTING WORSHIP CENTER RELIGIOUS EDUCATION ADDITION PREFINISHED METAL **GUTTER & DOWNSPOUT** T.O. MASONRY EL. 108'-0" 1" TINTED, INSULATED EXTERIOR EGRESS LIGHTING SPLITFACE CMU, ALUMINUM STOREFRONT SIDING SYSTEM MATCH EXISTING AND GLAZING, FRAME COLOR TO MATCH EXISTING, SOUTH-EAST ELEVATION 1/8" = 1'-0" APPROVAL CERTIFICATE Sheet Number: INITIALS/DATE The building elevations shown and approved hereon are intended to demonstrate how all HVAC shall be screened according to Douglas INITIALS/DATE County Zoning resolution requirements. It is the applicant's responsibility to ensure that screening occurs in the field as demonstrated by these plans regardless of curb requirements, mechanical plan changes, or other (IF APPLICABLE) INITIALS/DATE circumstances. Failure to provide screening may result in delay of final inspections and/or issuance of a certificate of occupancy.

2180 SOUTH INTERSTATE 25, 5TH REVISION

PART OF THE N 1/2 OF SECTION 27, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH P.M.

5.55 ACRES

SITE IMPROVEMENT PLAN

SP2024-058 (REVISION TO US02-003)





EXTERIOR BUILDING FINISHES

COMPOSITION SHINGLE SYSTEM:
OWENS CORNING, DURATION, CHATEAU GREEN
TO MATCH EXISTING

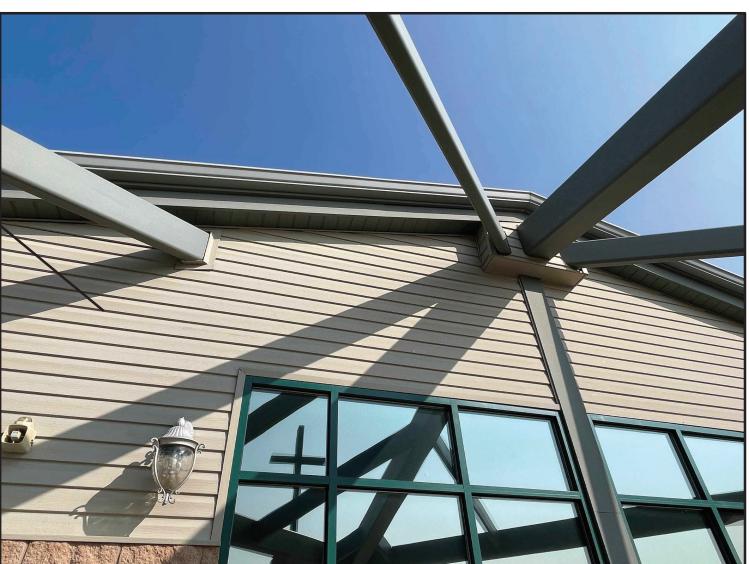
FIBER CEMENT SIDING: HARDI SIDING OR EQUAL COLOR TO MATCH EXISTING

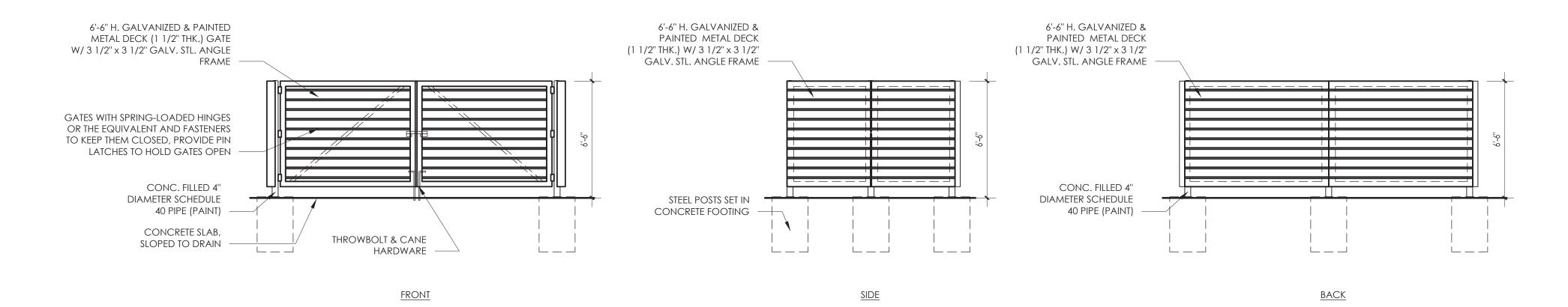
SPLIT FACE CMU: ANCHOR BLOCK CO.- SANTA FE #506 TO MATCH EXISTING

GUTTERS, DOWNSPOUTS, TRASH ENCLOSURE & MISC. METALS:
SHERWIN WILLIAMS SW6326 HENNA SHADE TO MATCH EXISTING

ALUMINUM STOREFRONT WINDOWS: TO MATCH EXISTING







TRASH ENCLOSURE ELEVATIONS

1/4" = 1'-0"

DCZR:
The building elevations shown and approved hereon are intended to demonstrate how all HVAC shall be screened according to Douglas County Zoning resolution requirements. It is the applicant's responsibility to ensure that screening occurs in the field as demonstrated by these plans regardless of curb requirements, mechanical plan changes, or other circumstances. Failure to provide screening may result in delay of final inspections and/or issuance of a certificate of occupancy.

PLANNING

INITIALS/DATE

OWNER

INITIALS/DATE

LESSEE
(IF APPLICABLE)

INITIALS/DATE

AEEKSIDE BIBLE CHURCH

No. Description of Revisions Date Name

1 1ST SUBMITTAL 07/22/24 JC
2 2ND SUBMITTAL 08/26/24 JC
3 3RD SUBMITTAL 09/30/24 JC
4 SUBMITTED FOR APPROVAL 11/04/24 JC

Date: JULY 2024

Job Number:

Design By: J. COCO

Checked By: J. COCO

8 OF 9

2180 SOUTH INTERSTATE 25, 5TH REVISION

PART OF THE N 1/2 OF SECTION 27, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE 6TH P.M.

5.55 ACRES

SITE IMPROVEMENT PLAN SP2024-058 (REVISION TO US02-003)

LUMINAIRE SCHEDULE QTY WATTS SOURCE TEMP LUMENS DIMMING TAG MOUNTING MANUFACTURER MODEL REMARKS DESCRIPTION 11 LED 3000K 1550 EM SCONCE SURFACE ∐THONIA WPX1 LED P1 30K MVOLT E4WH



WPX LED Wall Packs









Front View

Luminaire	Height (H)	Width (W)	Depth (D)	Side Conduit Location		Weight
Lummaire	neight (n)	with (w)	veptii (v)	Α	В	weight
WPX1	8.1"(20.6 cm)	11.1" (28.3 cm)	3.2"(8.1 cm)	4.0"(10.3 cm)	0.6" (1.6 cm)	6.1 lbs (2.8kg)
WPX2	9.1" (23.1 cm)	12.3" (31.1 cm)	4.1" (10.5 cm)	4.5" (11.5 cm)	0.7" (1.7 cm)	8.2 lbs (3.7kg)
WPX3	9.5" (24.1 cm)	13.0" (33.0 cm)	5.5" (13.7 cm)	4.7" (12.0 cm)	0.7"(1.7 cm)	11.0 lbs (5.0kg)

S S WARRANTS

Introduction

The WPX LED wall packs are energy-efficient, costeffective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in three sizes, the WPX family delivers 1,550 to 9,200 lumens with a wide, uniform distribution.

The WPX full cut-off solutions fully cover the footprint of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life. Photocell and emergency egress battery options make WPX ideal for every wall

mounted lighting application.

Ordering Information

EXAMPLE: WPX2 LED 40K MVOLT DDBXD

Series		Color	Temperature	Voltage		Options		Finish	
WPX1 LED P1 WPX1 LED P2 WPX2 LED WPX3 LED	1,550 Lumens, 11W ¹ 2,900 Lumens, 24W 6,000 Lumens, 47W 9,200 Lumens, 69W	30K 40K 50K	3000K 4000K 5000K	MVOLT 347	120V - 277V 347V ³	(blank) E4WH E14WC PE	None Emergency battery backup, CEC compliant (4W, 0°C min) ² Emergency battery backup, CEC compliant (14W, -20°C min) ² Photoceli ³	DDBXD DWHXD DBLXD Note : For	Dark bronze White Black other options, consult factory.

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration options. Specific values are available on request.

1. All WPX wall packs come with 6kV surge protection standard, except WPX1 LED P1 package which comes with 2.5kV surge protection standard. Add SPD6KV option to get WPX1 LED P1 with 6kV surge protection.

Sample nomenclature: WPX1 LED P1 40K MVOLT SPD6KV DDBXD

2. Particular Section 1. 2. Battery pack options only available on WPX1 and WPX2.

3. Battery pack options not available with 347V or PE options.

FEATURES & SPECIFICATIONS

LITHONIA LIGHTING.

COMMERCIAL OUTDOOR

The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution. WPX is rated for -40°C to 40°C.

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

LECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs and LED lumen maintenance of L90/100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (Note: WPX1 LED P1 package comes with a standard surge protection rating of 2.5kV. It can be ordered with an optional 6kV surge protection). All photocell (PE) operate on MVOLT (120V - 277V) input.

Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen

WPX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases, WPX is only recommended for installations with LEDs facing downwards. CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark Sky Association (IDA) Fixture Seal of Approval (CSA):

(FSA) is available for all products on this page utilizing 3000K color temperature only. 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com WPX LED © 2020-2024 Acuity Brands Lighting, Inc. All rights reserved. Rev. 07/01/24

Performance Data Flectrical Load

Luminaire	Input Power (W)	120V	208V	240V	277₹	34
WPX1 LED P1	11W	0.09	0.05	0.05	0.04	0.
WPX1 LED P2	24W	0.20	0.12	0.10	0.09	0.
WPX2	47W	0.39	0.23	0.20	0.17	0.
WPX3	69W	0.58	0.33	0.29	0.25	0.

Projected LED Lumen Maintenance Data references the extrapolated performance projections in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the desired number of opera values, contact factory.			
Operating Hours	50,000	75,000	100,000
Lumen Maintenance	>0.94	>0.92	>0.90

IID Replacement Guide					
Luminaire	Equivalent HID Lamp	WPX Input Power			
WPX1 LED P1	100W	11W			
WPX1 LED P2	150W	24W			
WPX2	250W	47W			

400W

4000K 1,568 Ambient Ambient Lumen Multipl 0℃ 32℉ 5°C 41°F 4000K 10℃ 50°F 1.03 5000K 2,954 15℃ 59℉ 1.02 20°C 68°F 1.01 4000K 5,896 25°C 77°F 5000K 6,201 30℃ 86℉ 0.99 3000K 8,984 35℃ 95℉ 4000K 40°C 104°F 0.97

Lumen Ambient Temperature

(LAT) Multipliers

lumen output for average ambient

Emergency Egress Battery Packs

The emergency battery backup is integral to the luminaire — no external housing or back box is required. The emergency battery will power the luminaire for a minimum duration of

Battery Type	Minimum Temperature Rating	Power (Watts)	Controls Option	Ordering Example
Standard	0℃	4W	E4WH	WPX2 LED 40K MVOLT E4WH DDBXD
Cold Weather	-20°C	14W	E14WC	WPX2 LED 40K MVOLT E14WC DDBXD

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WPX LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards 0.5 fc Mounting Height = 12 Feet. **WPX3 LED**



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2020-2024 Acuity Brands Lighting, Inc. All rights reserved.

WPX LED Rev. 07/01/24

NOTES:

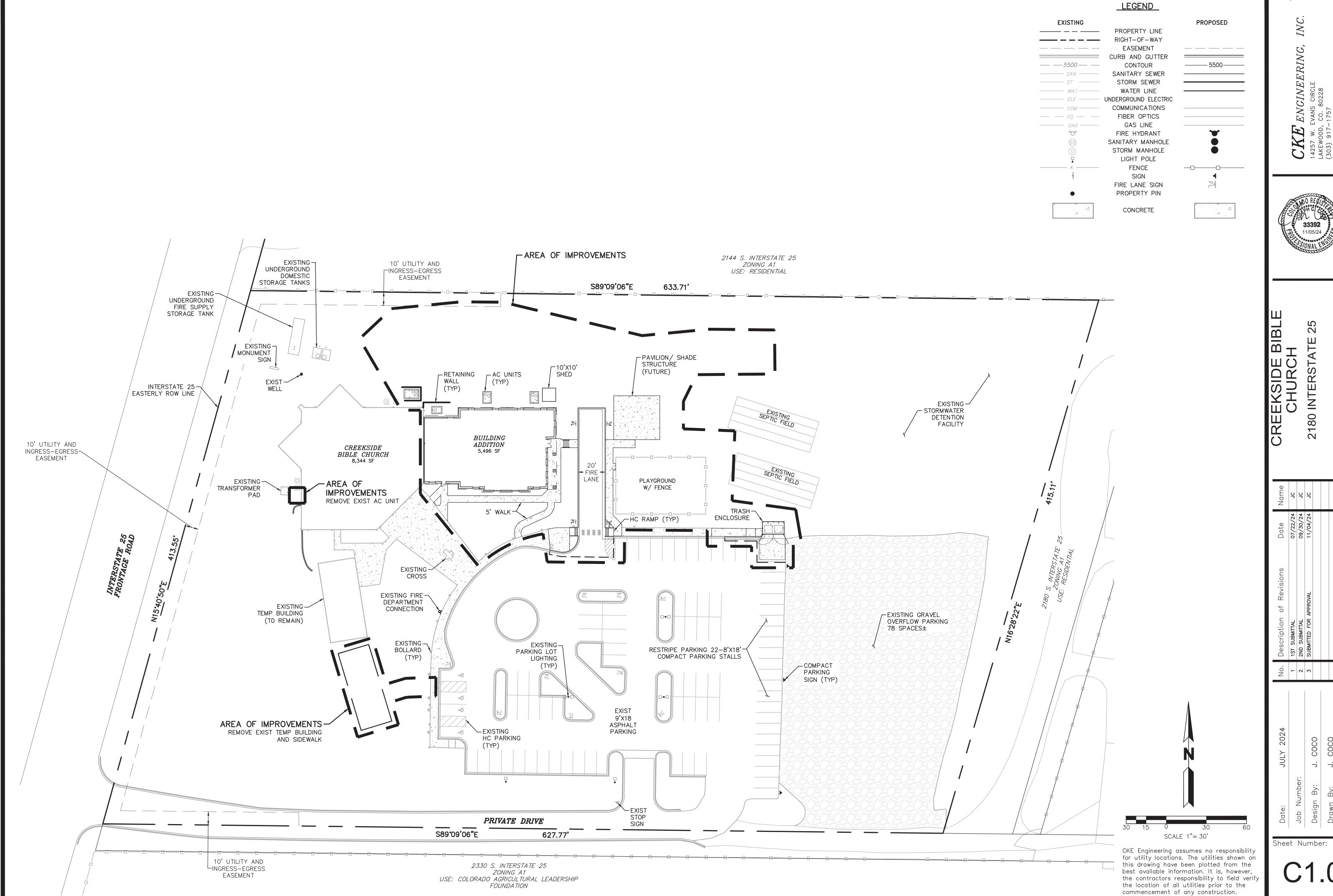
- 1. REFERENCE SITE PLAN (SHEET 2 OF 9) AND EXTERIOR BUILDING ELEVATIONS FOR LOCATIONS OF PROPOSED LIGHT FIXTURE L.
- 2. PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR CONDUCTING FINAL INSPECTIONS, DOUGLAS COUNTY SHALL CONDUCT AN EVENING SITE VISIT TO ENSURE ILLUMINATION LEVELS GENERATED BY THE LIGHTING: MEET ALL COUNTY CRITERIA AS WELL AS THOSE INDICATED ON THE APPROVED SITE IMPROVEMENT PLAN; DO NOT CREATE DISABILITY GLARE ON ADJACENT PROPERTIES; AND THAT ALL FIXTURES ARE FULL CUTOFF AS DEFINED BY THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. IN THE EVENT LIGHTING LEVELS DO NOT MEET THESE CRITERIA, REMEDIAL ACTION MAY INCLUDE RE-LAMPING WITH LOWER WATTAGE BULBS, RELOCATING FIXTURES, SHIELDING FIXTURES, REMOVING FIXTURES, OR REPLACING FIXTURES. IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO ENSURE ALL SITE LIGHTING COMPLIES WITH LIGHTING STANDARDS SECTION OF THE DOUGLAS COUNTY ZONING RESOLUTION PRIOR TO REQUESTING ISSUANCE OF A CERTIFICATE OF OCCUPANCY AND/OR FINAL INSPECTIONS.

EEKSIDE BIBLE CHURCH

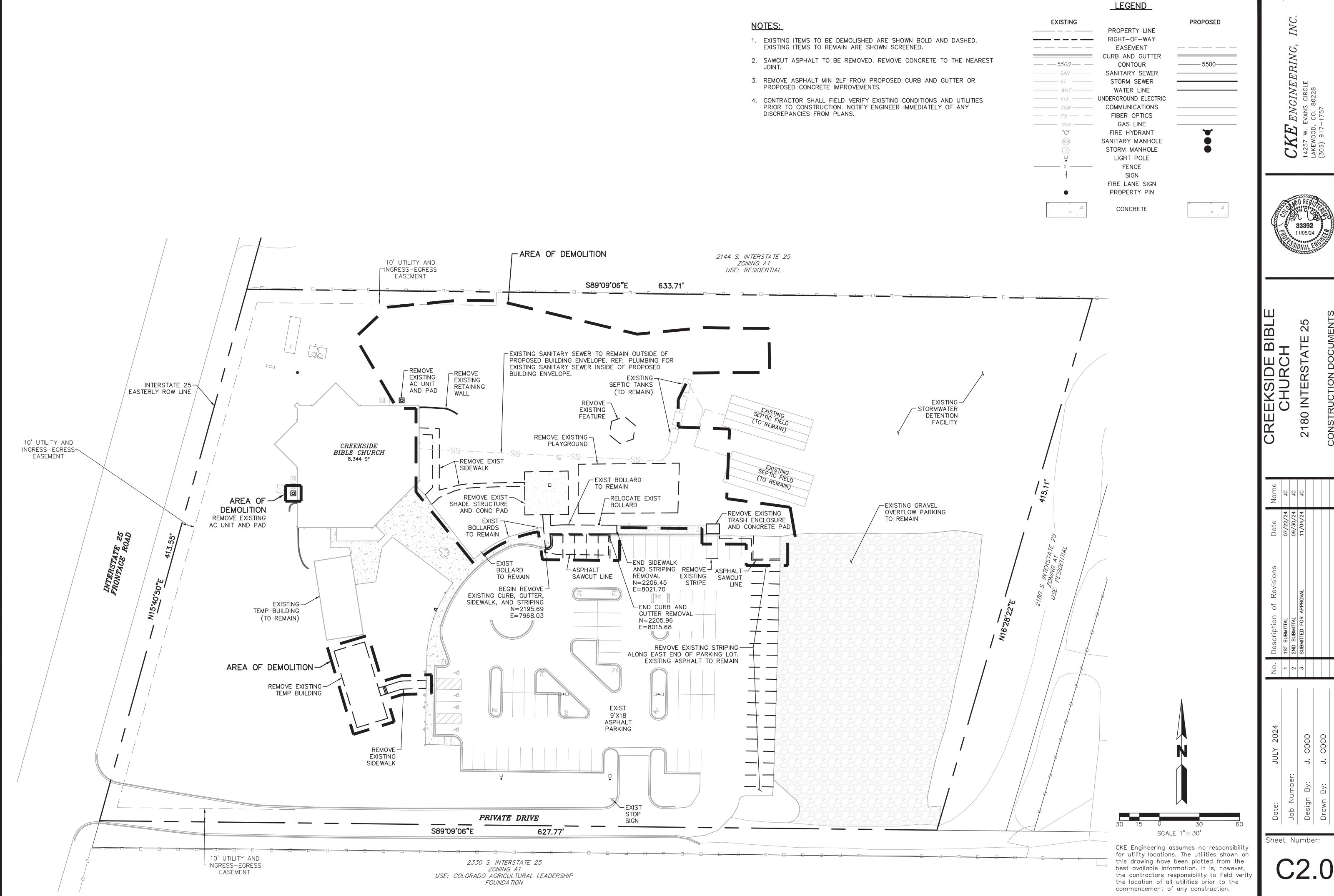
2180 INTERS

No. Description of Revisions Date Name	1 1ST SUBMITTAL 07/22/24 JC	2 2ND SUBMITTAL 08/26/24 JC	3 3RD SUBMITTAL 09/30/24 JC	4 SUBMITTED FOR APPROVAL 11/04/24 JC			
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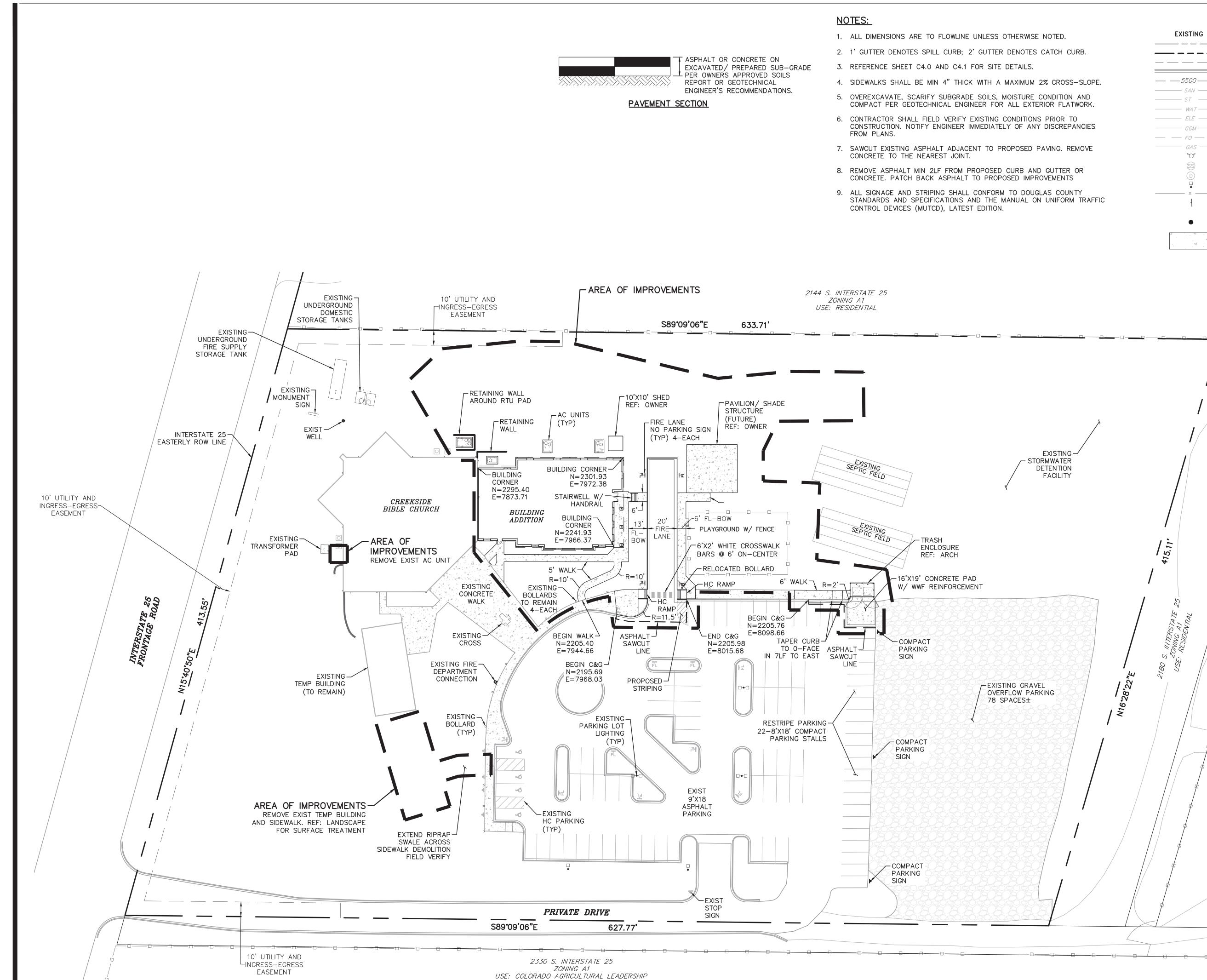
APPROVAL CERTIFICATE PLANNING INITIALS/DATE OWNER INITIALS/DATE (IF APPLICABLE) INITIALS/DATE











FOUNDA TION

<u>LEGEND</u>

PROPOSED

PROPERTY LINE
RIGHT-OF-WAY
EASEMENT
CURB AND GUTTER
CONTOUR

SANITARY SEWER

CURB AND GUTTER

CONTOUR

SANITARY SEWER

STORM SEWER

WATER LINE

UNDERGROUND ELECTRIC

COMMUNICATIONS

FIBER OPTICS

GAS LINE

FIRE HYDRANT

SIGN FIRE LANE SIGN PROPERTY PIN

SANITARY MANHOLE

STORM MANHOLE

LIGHT POLE

FENCE

ABBREVIATIONS:
FL-FLOW LINE
BOW-BACK OF WALK
C&G-CURB AND GUTTER

CONCRETE

33392 11/05/24

ENGINEERING,
EVANS CIRCLE
CO. 80228
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REEKSIDE BIBLE CHURCH

1 IST SUBMITTAL 07/22/24 JC 2ND SUBMITTAL 09/30/24 JC 3 SUBMITTED FOR APPROVAL 11/04/24 JC

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 JULY 2024
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 2

 ssign By:
 J. COCO

 awn By:
 J. COCO

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 J. COCO

Sheet Number:

SCALE 1"= 30'

CKE Engineering assumes no responsibility for utility locations. The utilities shown on

this drawing have been plotted from the

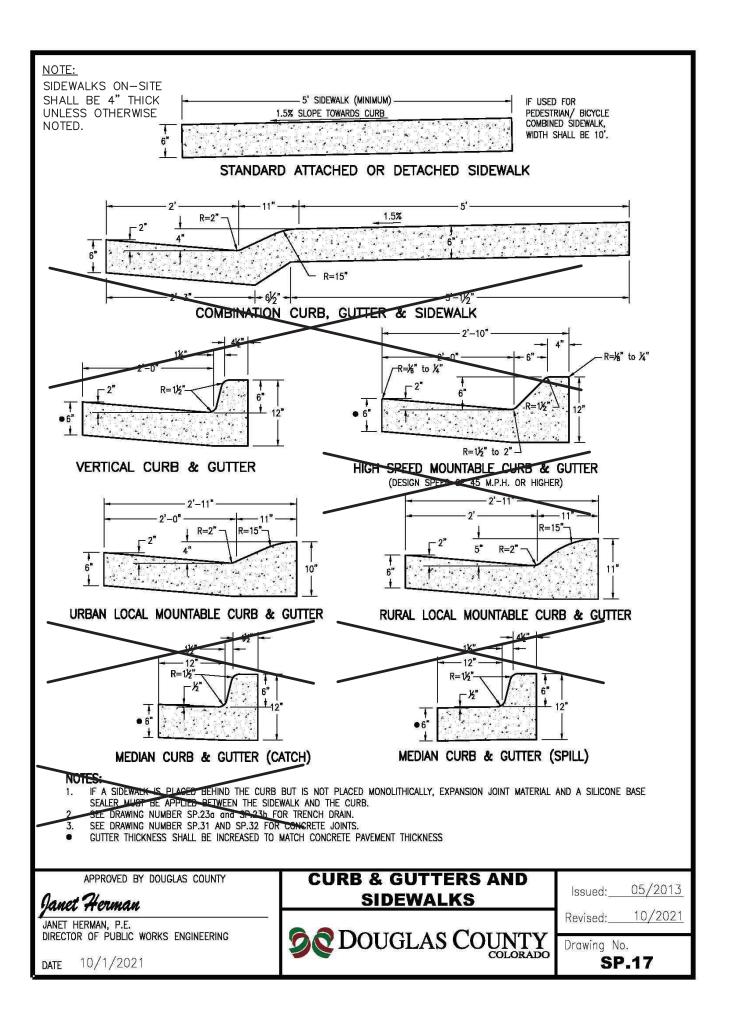
the contractors responsibility to field verify

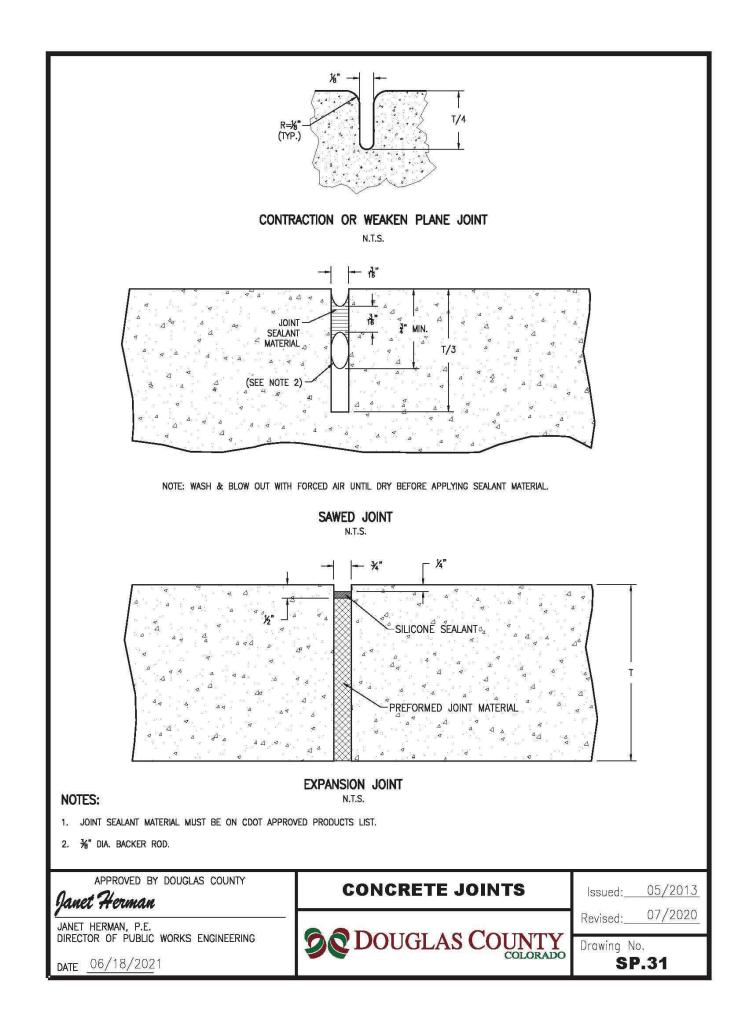
best available information. It is, however,

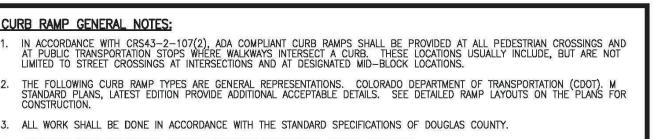
the location of all utilities prior to the

commencement of any construction.

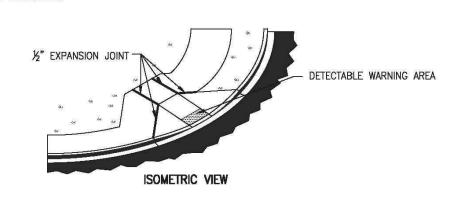
C3.0







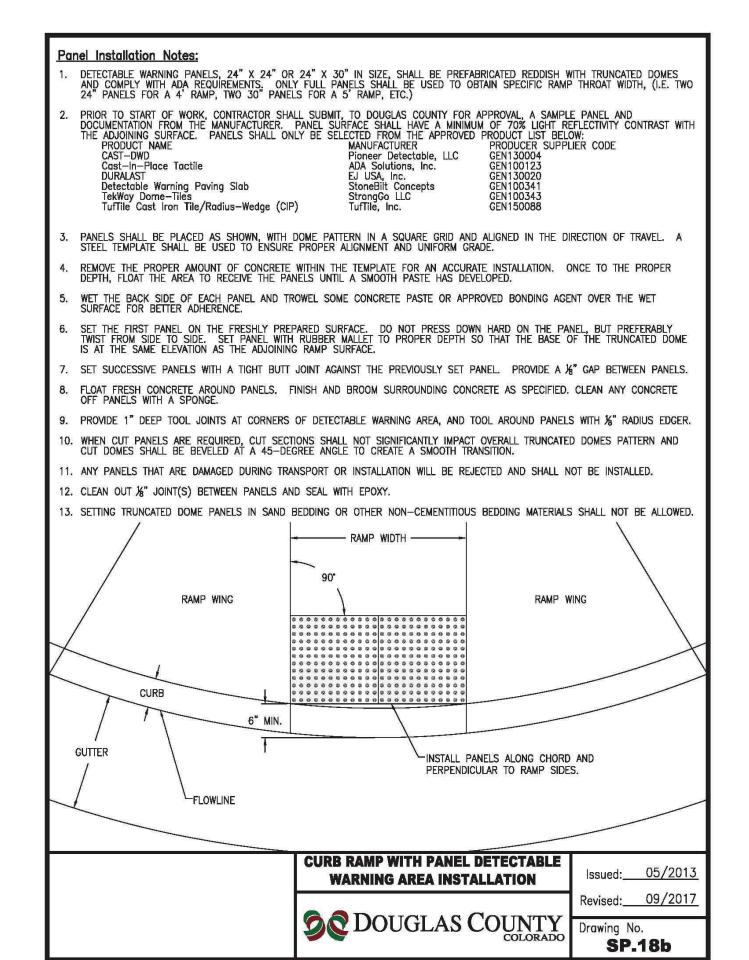
- . SIDEWALKS SHALL BE RAMPED WHERE A DRIVEWAY IS EXTENDED ACROSS THE WALK.
- DETAILS SHOWN IN THE PLAN SHALL APPLY TO ALL CONSTRUCTION OR RECONSTRUCTION OF STREETS, CURBS OR SIDEWALKS PER
- 6. IN NEW CONSTRUCTION, RAMP AND CURB MAY BE POURED MONOLITHICALLY.
- RAMP AND WINGS SHALL BE POURED MONOLITHICALLY.
- 8. MINIMUM WIDTH OF RAMPS SHALL BE 4 FEET AND RAMP SLOPES SHALL NOT BE STEEPER THAN 7.5%.
- . MAINTAIN BACK OF WALK ELEVATION AT 1.5% SLOPE FROM TOP OF CURB.
- 10. CONCRETE FOR SIDEWALK RAMPS SHALL BE CLASS "D".
- 11. A ½" EXPANSION JOINT SHALL BE REQUIRED WHERE THE CONCRETE RAMP JOINS ANY RIGID PAVEMENT OR STRUCTURE.
- 12. DRAINAGE STRUCTURES SHALL NOT BE PLACED IN LINE WITH RAMPS. LOCATION OF THE RAMP SHALL TAKE PRECEDENCE OVER LOCATION OF THE DRAINAGE STRUCTURE.

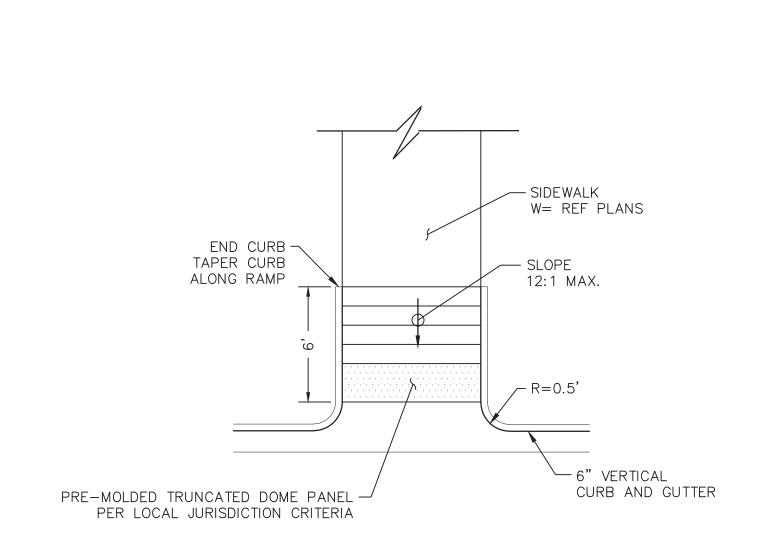


DETECTABLE WARNING AREA NOTES

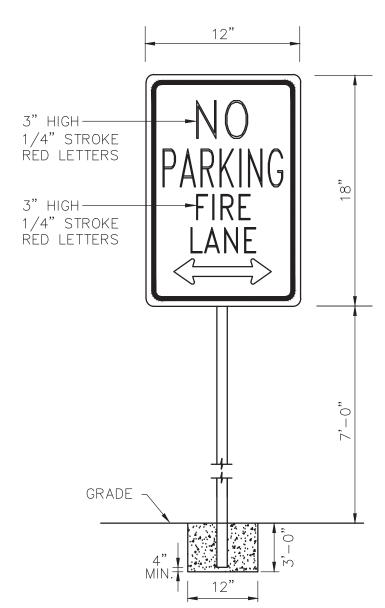
- DETECTABLE WARNING DEVICES SHALL BE TRUNCATED DOME WARNING DEVICES. COLOR SHALL BE BRICK RED, TILE RED, OR OTHER EQUIVALENT COLOR TO PROVIDE COLOR CONTRAST WITH ADJACENT SURFACES, AS REQUIRED BY ADAAG SECTION 4.29.2. THE COUNTY ENGINEER MUST APPROVE THE TRUNCATED DOME WARNING AREA COLOR PRIOR TO CONSTRUCTION.
- CONTRASTING COLOR REQUIREMENT SHALL BE MET BY TRUNCATED DOME SECTIONS AND NOT BY USE OF COLORED CONCRETE.
- . ALL DETECTABLE WARNING AREAS SHALL START A MINIMUM OF 6 INCHES AND A MAXIMUM OF 5 FEET FROM THE FLOW LINE OF THE CURB UNLESS INSTALLED AT CUT-THROUGH REFUGE ISLANDS, IN WHICH CASE THE DWA WILL START AT THE EDGE OF THE ISLAND. ALL DETECTABLE WARNING AREAS SHALL BE 24 INCHES IN LENGTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA ONLY.
- SURFACE APPLIED TRUNCATED DOME PANELS ARE ONLY ALLOWED ON PRE-EXISTING CURB RAMPS AND ARE NOT ALLOWED IN NEW CONSTRUCTION.

approved by douglas county Janet Herman	CURB RAMP & DETECTABLE WARNING AREA NOTES	lssued: 05/2013
JANET HERMAN, P.E.	a Davier I a Corn	Revised: 05/2021
DIRECTOR OF PUBLIC WORKS ENGINEERING	DOUGLAS COUNTY	Drawing No.
DATE 06/18/2021	COLONIES	SP.18a





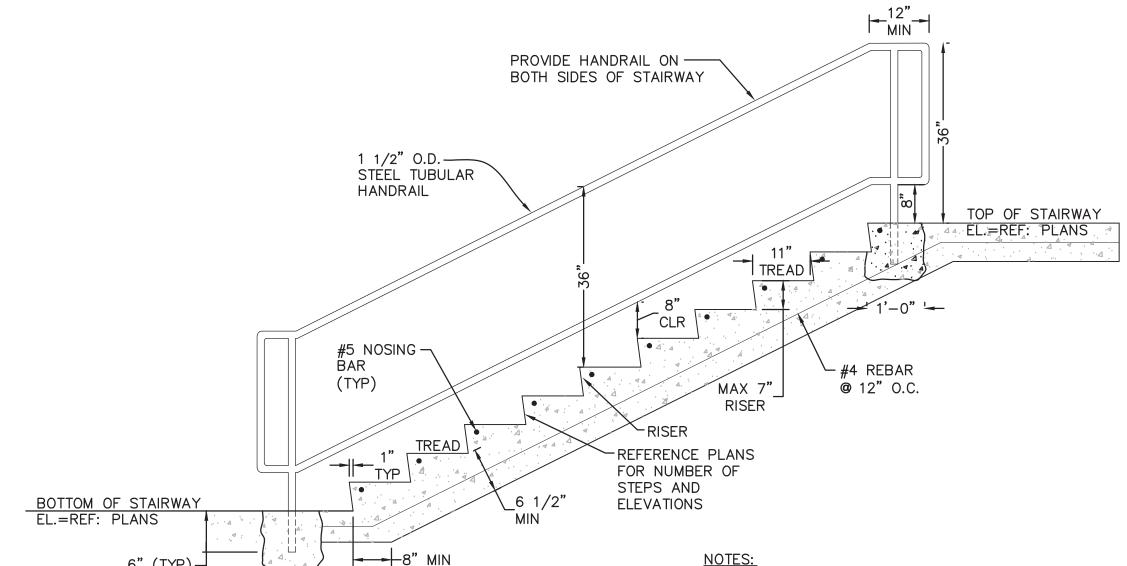
DIRECTIONAL HANDICAP RAMP DETAIL N.T.S.



FIRE LANE SIGNAGE N.T.S.



COMPACT CAR PARKING SIGNAGE



1'-0"

1.) PROVIDE MIDWAY POLE FOR STAIRWAY GREATER THAN 4' IN HEIGHT.

- 2.) ALL POSTS AND RAILING SHALL BE SCHEDULE 40 HOT-DIP GALVANIZED PIPE.
- RAILING SHALL BE WELDED (ALL AROUND) TO POSTS AND SHARP CORNERS GROUND SMOOTH.
- 4.) ALL RAILING SYSTEMS SHALL HAVE A PRIMER AND FINISH COAT (3 MILS EACH) OF TYPE I, ZINC DUST/ZINC OXIDE LINSEED OIL PAINT, OR APPROVED
- 5.) COLOR BLACK UNLESS OTHERWISE NOTED BY ARCHITECT

STAIRWELL DETAIL

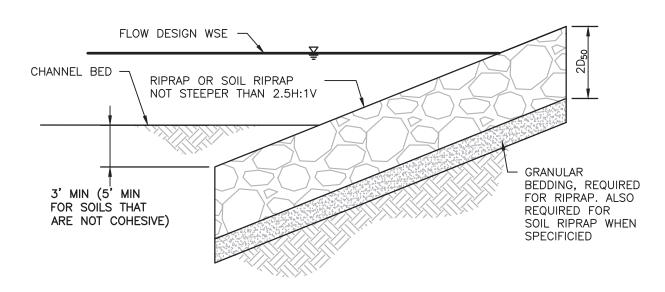
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Date 07/22/08/26/09/30/

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RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D ₅₀ * (INCHES)
TYPE VL	70 - 100 50 - 70 35 - 50 2 - 10	12 9 6 2	6
TYPE L	70 - 100 50 - 70 35 - 50 2 - 10	15 12 9 3	9
TYPE M	70 - 100 50 - 70 35 - 50 2 - 10	21 18 12 4	12
TYPE H	70 - 100 50 - 70 35 - 50 2 - 10	30 24 18 6	18

SOIL RIPRAP PLACEMENT AND GRADATION

SOIL RIPRAP NOTES:

- 1. ELEVATION TOLERANCES FOR THE SOIL RIPRAP SHALL BE 0.10 FEET. THICKNESS OF SOIL RIPRAP SHALL BE NO LESS THAN THICKNESS SHOWN AND NO MORE THAN 2-INCHES GREATER THAN THE THICKNESS SHOWN.
- WHERE "SOIL RIPRAP" IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP VOIDS ARE TO BE FILLED WITH NATIVE SOIL. THE RIPRAP SHALL BE PRE-MIXED WITH THE NATIVE SOIL AT THE FOLLOWING PROPORTIONS BY VOLUME: 65 PERCENT RIPRAP AND 35 PERCENT SOIL. THE SOIL USED FOR MIXING SHALL BE NATIVE TOPSOIL AND SHALL HAVE A MINIMUM FINES CONTENT OF 15 PERCENT. THE SOIL RIPRAP SHALL BE INSTALLED IN A MANNER THAT RESULTS IN A DENSE, INTERLOCKED LAYER OF RIPRAP WITH RIPRAP VOIDS FILLED COMPLETELY WITH SOIL. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF SOIL; THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT SOIL.
- WHERE SPECIFIED (TYPICALLY AS "BURIED SOIL RIPRAP"), A SURFACE LAYER OF TOPSOIL SHALL BE PLACED OVER THE SOIL RIPRAP ACCORDING TO THE THICKNESS SPECIFIED ON THE CONTRACT DRAWINGS. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
- 4. ALL SOIL RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.

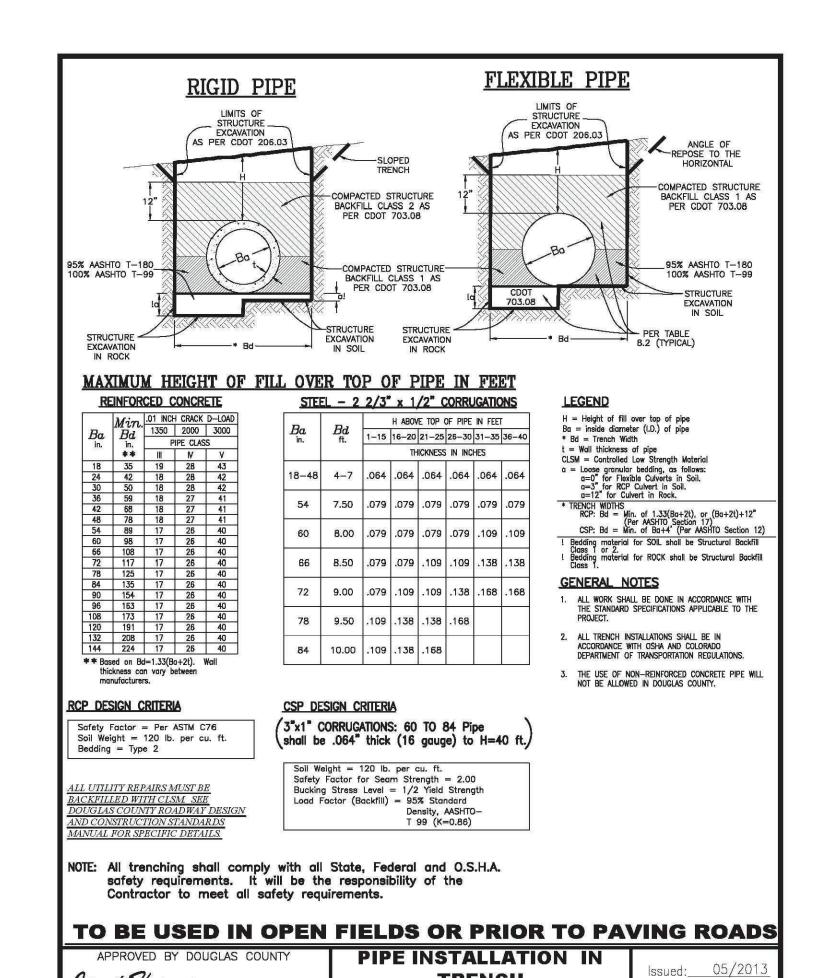
THICKNESS REQUIREMENTS FOR GRANULAR BEDDING						
	MINIMUM BEDDING THICKNESS (INCHES)					
RIPRAP DESIGNATION	FINE-GRAIN	COARSE-GRAINED SOILS 2				
	TYPE I (LOWER LAYER)	TYPE II (UPPER LAYER)	TYPE II			
$VL (D_{50} = 6 IN)$	4	4	6			
$L (D_{50} = 9 IN)$	4	4	6			
$M (D_{50} = 12 IN)$	4	4	6			
$H (D_{50} = 18 IN)$	4	6	8			
$VH (D_{50} = 24 IN)$	4	6	8			

1. MAY SUBSTITUTE ONE 12-INCH LAYER OF TYPE II BEDDING. THE SUBSTITUTION OF ONE LAYER OF TYPE II BEDDING SHALL NOT BE PERMITTED AT DROP STRUCTURES. THE USE OF A COMBINATION OF FILTER FABRIC AND TYPE II BEDDING AT DROP STRUCTURES IS ACCEPTABLE. 2. FIFTY PERCENT OR MORE BY WEIGHT RETAINED ON THE #40 SIEVE.

SP.46b

GRADATION FOR GRANULAR BEDDING						
	PERCENT	PASSING BY WEIGHT				
U.S. STANDARD SIEVE SIZE	TYPE I CDOT SECT. 703.01	TYPE II CDOT SECT. 703.09 CLASS A				
3 INCHES	_	90 - 100				
1½ INCHES	-	_				
¾ INCHES	_	20 — 90				
% INCHES	100	-				
#4	95 — 100	0 - 20				
#16	45 - 80	-				
#50	10 - 30	_				
#100	2 - 10	-				
#200	0 - 2	0 - 3				

RIPRAP BEDDING



TRENCH

DOUGLAS COUNTY

Revised: 05/202

SP.46a

ENGINEERING

DATE 06/18/202

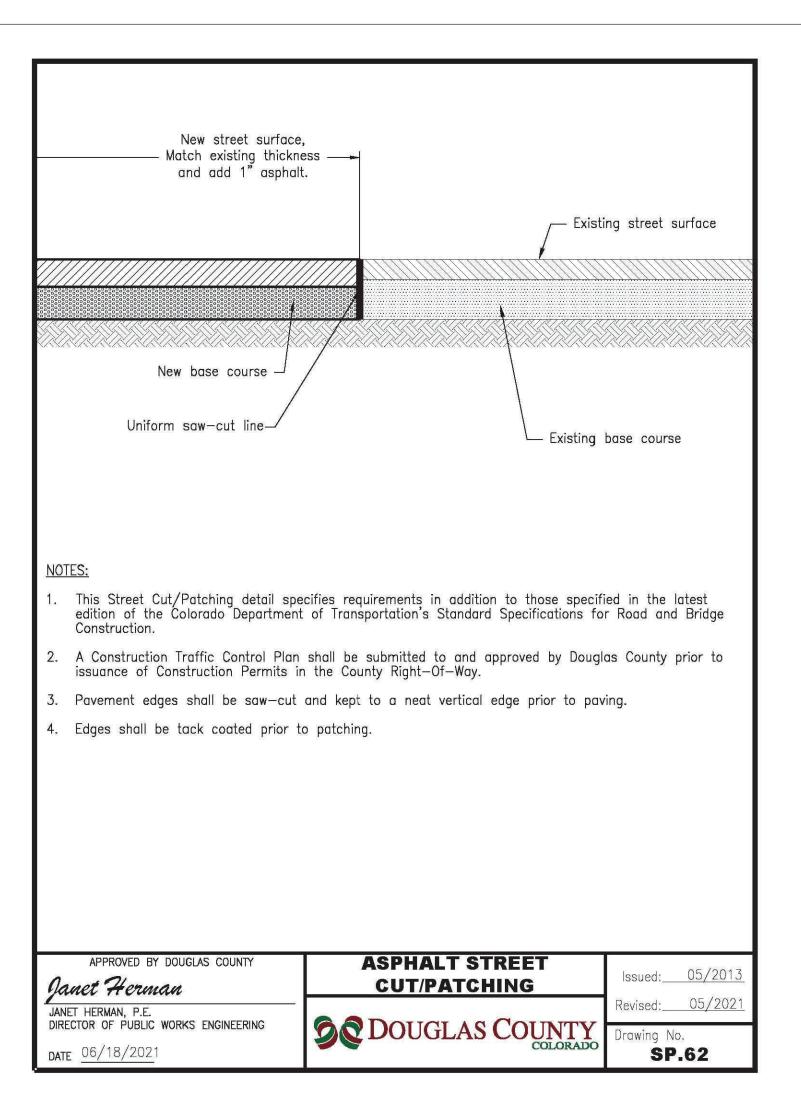
Janet Herman

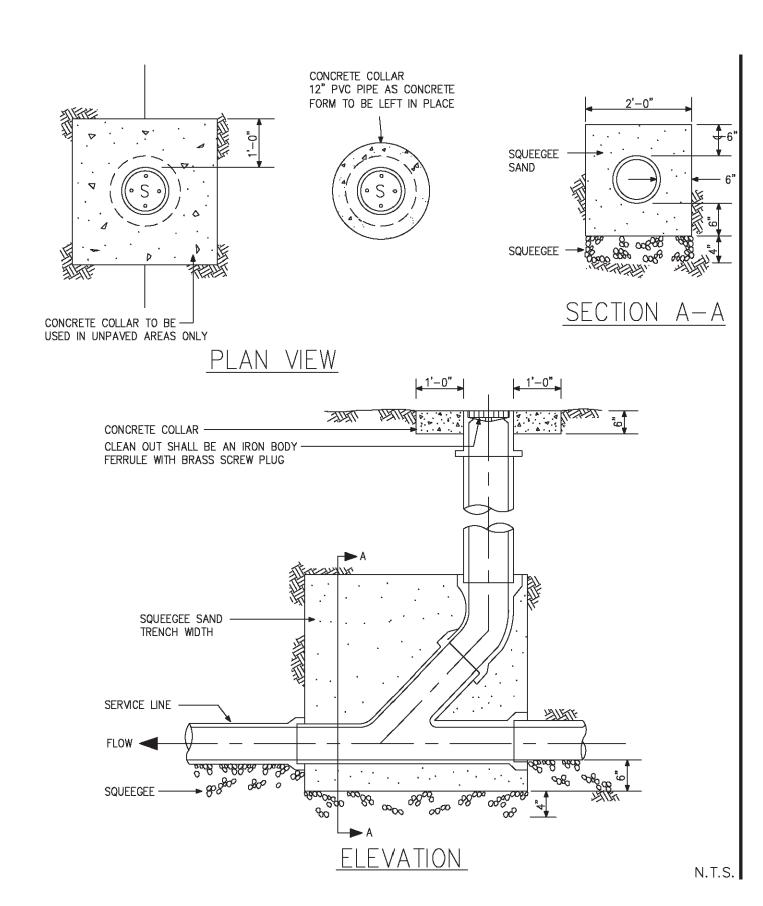
ENGINEERING

DATE 06/18/2021

JANET HERMAN, P.E. DIRECTOR OF PUBLIC WORKS

1. This trench backfill detail specifies requirements in addition to those specified in the latest edition of the Colorado Department of Transportation's Standard Specifications for Road and Bridge Construction. 2. A construction traffic control plan shall be submitted to and approved by Douglas County prior to issuance of construction permits in the County right-of-way. 3. Trench shall be braced or shored as necessary for the safety of the workers and protection of other utilities or structures in accordance with applicable local, state and federal safety regulations. 4. The trench width shall be confined to those minimum dimensions, which will permit proper installation and acceptable pipe loading, as established by current local, state and federal Safety regulations. 5. Backfill compaction requirements: Minimum density will be determined in accordance with AASHTO T 99 or T 180 as defined by CDOT Standard Specifications Section 203.07 and CDOT 703.03. Except for CLSM. 6. Pavement edges shall be saw-cut. Edges shall be tack coated prior to patching. 7. All storm sewers shall be constructed so that a minimum cover is maintained to withstand AASHTO HS-20 loading on the pipe. The minimum cover to withstand live loading depends upon the pipe size, type and class, and soil bedding condition, but shall be not less than 1-foot at any point along the pipe. Other factors that affect the depth of the pipe are hydraulic grade line elevations, inlet depths, adjacent utilities or utility crossings, including water and sewer services lines along residential streets, and connections to existing storm sewer systems. The roadway subgrade, which supports the pavement section is typically plowed to a certain depth, moisture treated and compacted prior to the placement of the sub-base, base course, and surfacing. There are also instances where the subgrade material must be excavated and replaced or treated to a certain depth to mitigate swelling soils. These efforts can impact the storm sewer system if it has not been designed with adequate depth. The design engineer shall use the best information available, including pavement design or soils reports (if available) to ensure that storm sewer pipes have adequate depth. 8. Changes in design criteria will require compensating change in pipe design. 9. When pipe sewer is to be extended or replaced with pipe of different material, the connections shall conform to the detail shown on plans or be approved through Douglas County Engineering. 10. When two or more conduits are laid side—by—side, they shall be placed so that they are ½ outside diameter, or ½ outside span, or 3' apart, whichever is less. However, if end sections are used, the minimum spacing shall be 1' between the outside edge of end sections. 11. TRENCH INSTALLATION (per OSHA Standards): a. Trenches over 5 feet in depth shall be either shored or the trench walls shall be sloped no steeper than 3:1 to the angle of repose. If sloped, the bottom of the slope shall be a minimum of 1 foot b. Shoring will be required when the bottom of the slope is more than 3 feet above the bottom of the trench. c. All sheeting or shoring to be removed. 12. CLSM may be used in place of Structural Backfill. 13. CLSM shall not exceed a strength over 100 p.s.i. REFERENCE: Douglas County Drainage Manual and Colorado Department of Transportation "M" Standards. TO BE USED IN OPEN FIELDS OR PRIOR TO PAVING ROADS PIPE INSTALLATION IN APPROVED BY DOUGLAS COUNTY Issued: 05/201 Janet Herman TRENCH NOTES Revised: 05/202 JANET HERMAN, P.E. DIRECTOR OF PUBLIC WORKS DOUGLAS COUNTY





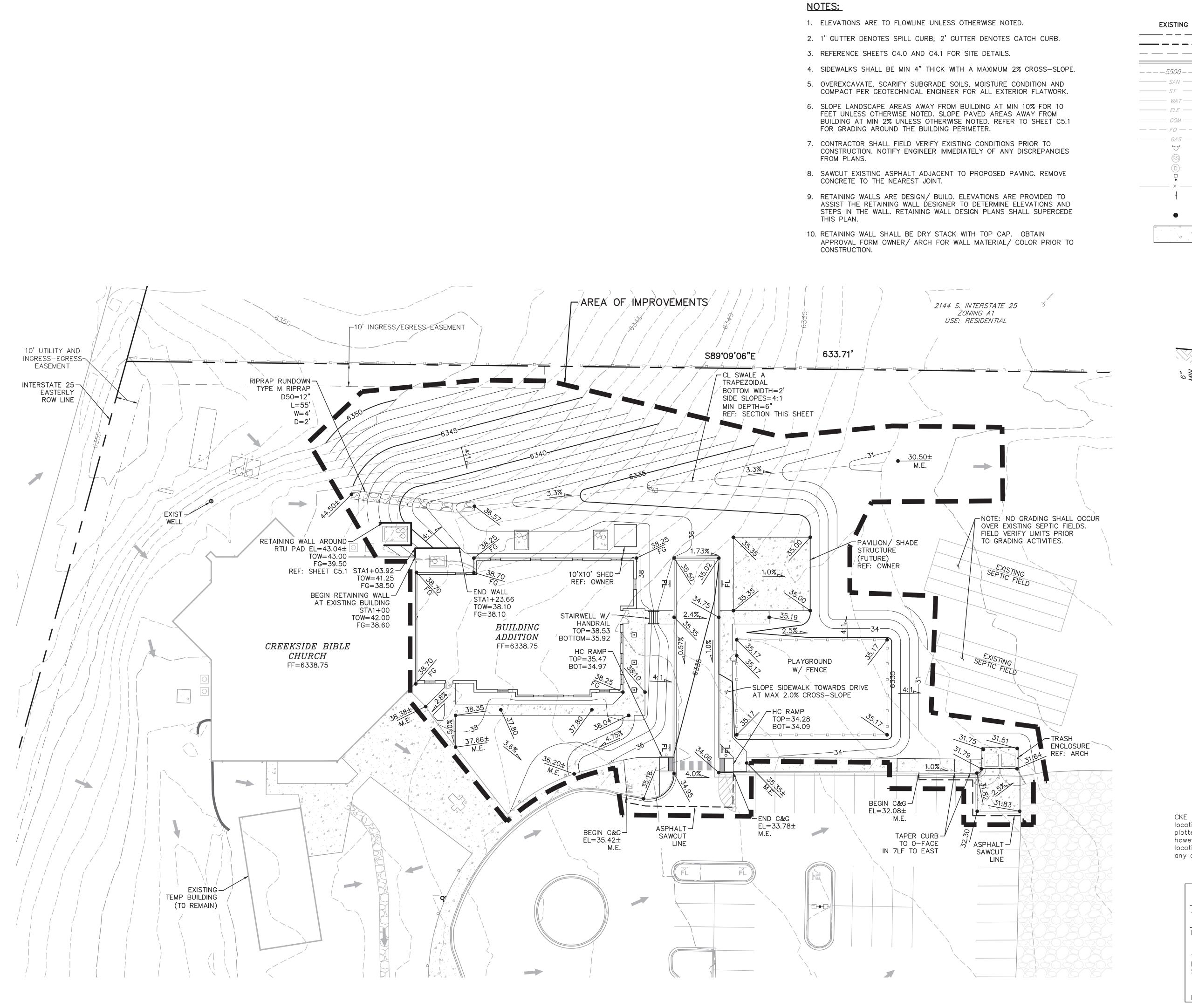
CLEAN OUT DETAIL

ENGINEERING,
EVANS CIRCLE
CO. 80228



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<u>LEGEND</u>

PROPERTY LINE RIGHT-OF-WAY EASEMENT CURB AND GUTTER

CONTOUR SANITARY SEWER STORM SEWER WATER LINE UNDERGROUND ELECTRIC COMMUNICATIONS FIBER OPTICS GAS LINE FIRE HYDRANT SANITARY MANHOLE STORM MANHOLE

LIGHT POLE FENCE SIGN FIRE LANE SIGN

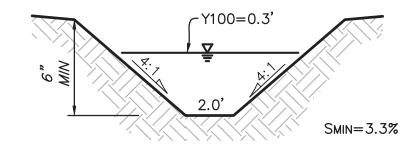
PROPERTY PIN CONCRETE

PROPOSED

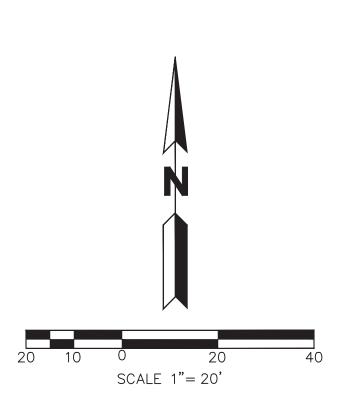
——— 5500**——**

ABBREVIATIONS: FL-FLOW LINE EOA-EDGE OF ASPHALT ME-MATCH EXISTING HP-HIGH POINT LP-LOW POINT GB-GRADE BREAK TOW-TOP OF WALL

FG-FINISHED GRADE



SWALE A (N.T.S.)



CKE Engineering 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 location of all utilities prior to the commencement of any construction.

ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

DATE

THESE CONSTRUCTION DRAWINGS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR STREET AND DRAINAGE IMPROVEMENTS ONLY.

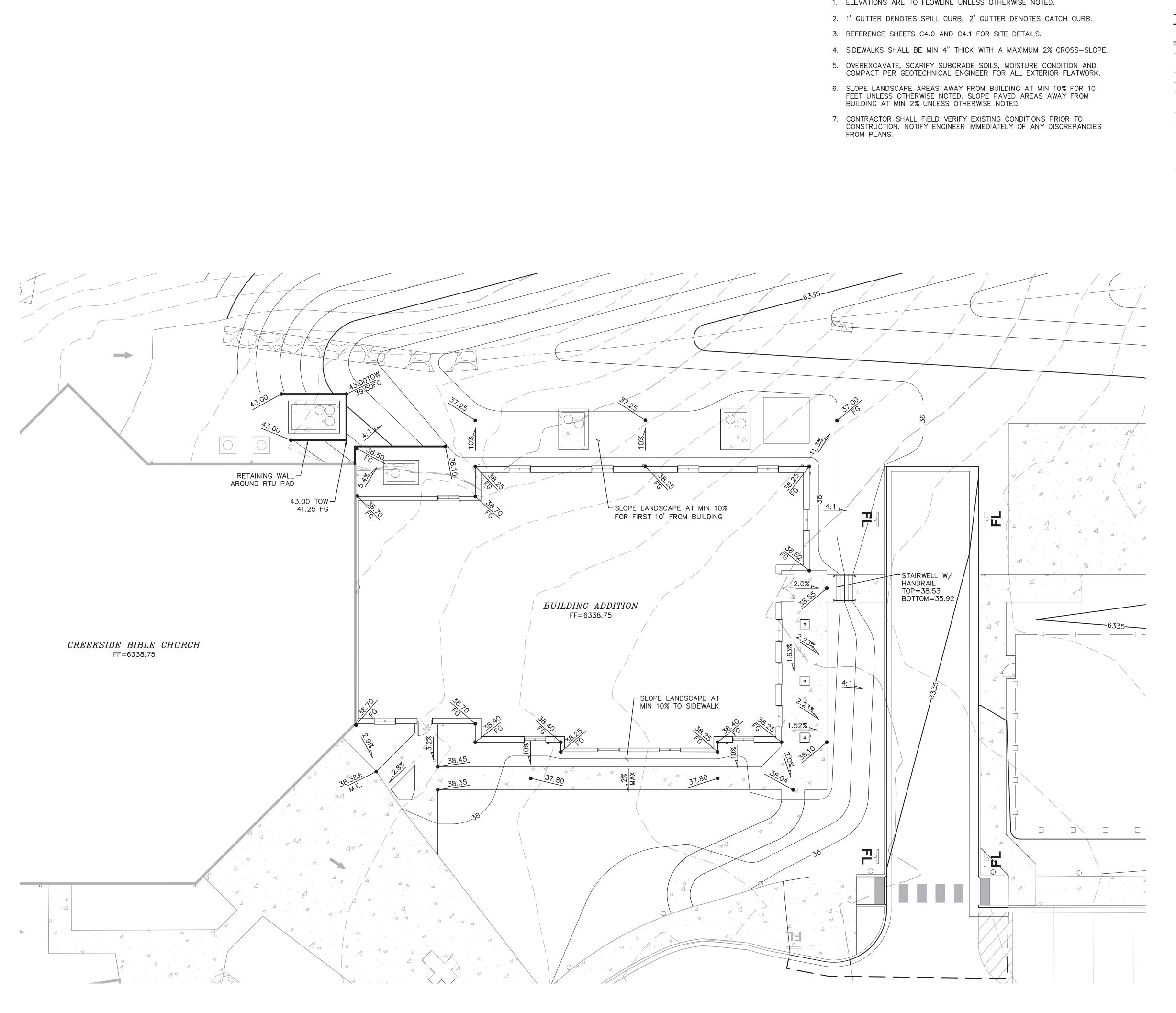
ENGINEERING DIVISION ACCEPTANCE BLOCK

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CO. 80228



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1. ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

NOTES:

<u>LEGEND</u>

EXISTING

PROPERTY LINE RIGHT-OF-WAY EASEMENT

CURB AND GUTTER CONTOUR SANITARY SEWER STORM SEWER WATER LINE UNDERGROUND ELECTRIC COMMUNICATIONS

FIBER OPTICS GAS LINE FIRE HYDRANT SANITARY MANHOLE STORM MANHOLE LIGHT POLE **FENCE**

SIGN FIRE LANE SIGN PROPERTY PIN

ABBREVIATIONS: FL-FLOW LINE

CONCRETE

EOA-EDGE OF ASPHALT ME-MATCH EXISTING HP-HIGH POINT LP-LOW POINT GB-GRADE BREAK TOW-TOP OF WALL FG-FINISHED GRADE

SCALE 1"= 10'

ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

THESE CONSTRUCTION DRAWINGS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR STREET AND DRAINAGE IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

any construction.

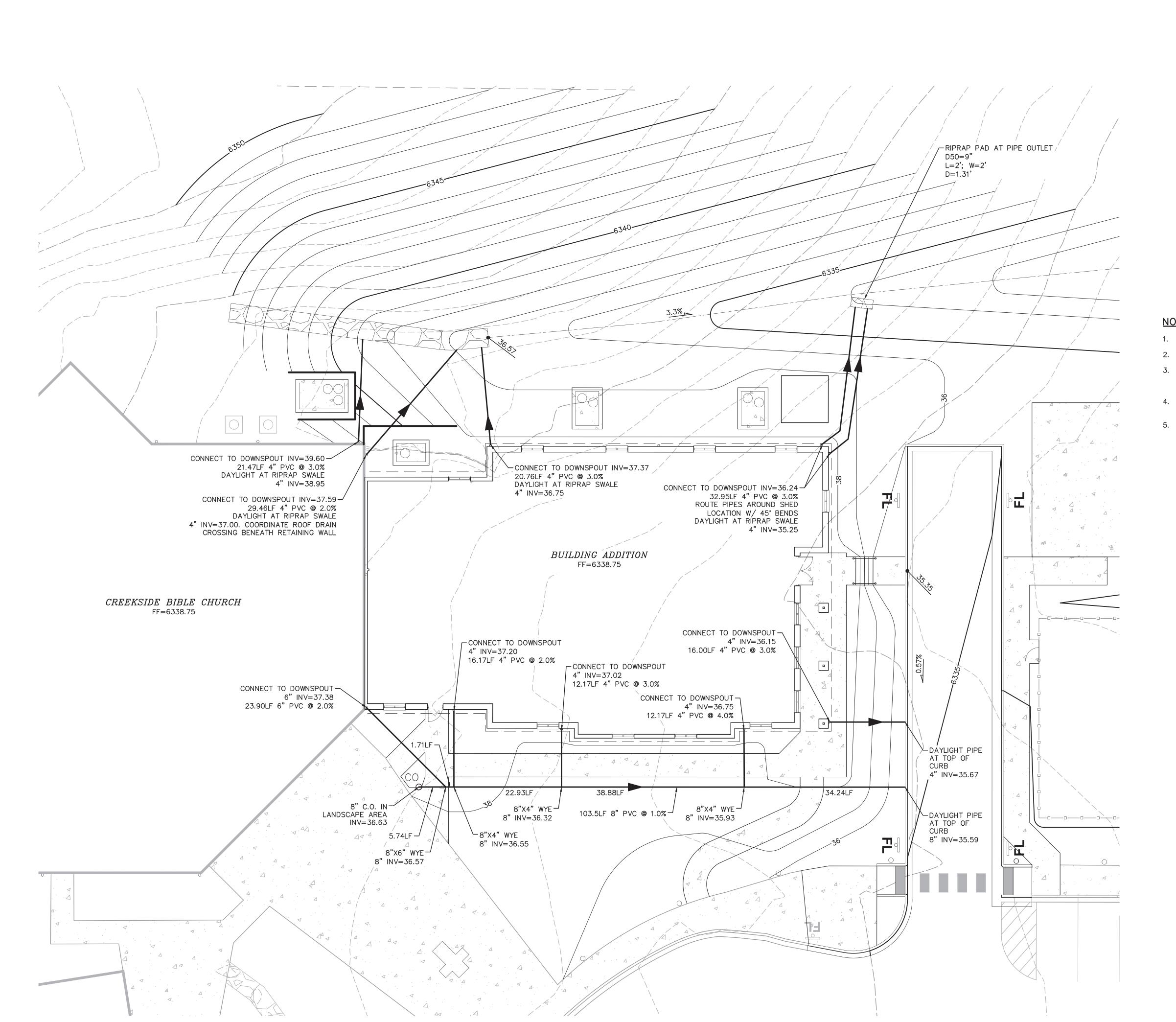
DATE

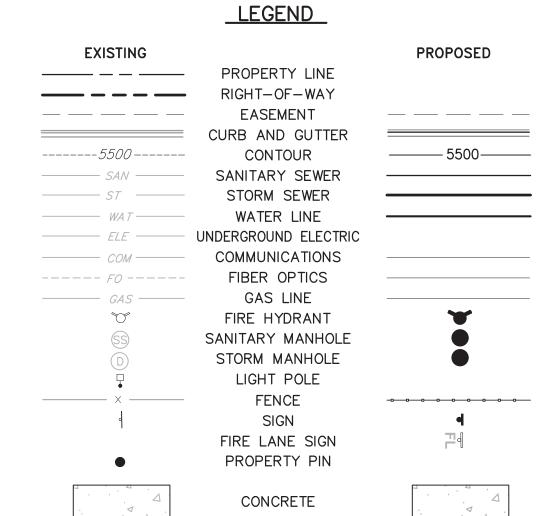
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PROPOSED

180 2

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NOTES:

- 1. ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
- 2. REFERENCE SHEETS C4.0 AND C4.1 FOR STORM DETAILS.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FROM PLANS.
- 4. STORM SEWER SHALL BE SDR 35 PVC. ADS HDPE MAY BE USED IN LIEU OF PVC WITH APPROVAL FROM THE PROJECT OWNER.
- 5. PROVIDE RODENT SCREENS AT ALL PIPE DAYLIGHT LOCATIONS.

No. Description of Revisions Da

1 1ST SUBMITTAL 07/
2 2ND SUBMITTAL 09/
3 SUBMITTED FOR APPROVAL 11/

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CO. 80228

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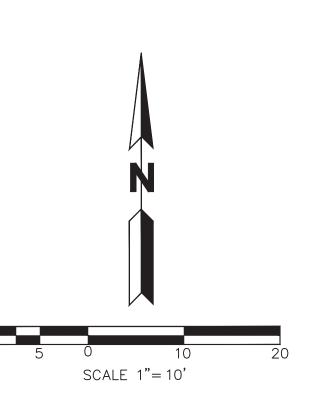
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Date: JULY 2024

No. Description
1 IST SUBMITTA
2 ZND SUBMITTA
3 SUBMITTED FC
5 Design By: J. COCO
Checked By: J. COCO

Sheet Number:

C6.0



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any construction.