SVA GREELEY - DENTAL BUILDING CONSTRUCTION DOCUMENTS

LOT 3 OF THE VILLAGE AT FOX RUN SUBDIVISION

SE 1/4 OF SECTION 9, TOWNSHIP 5 NORTH, RANGE 66 WEST OF THE 6TH P.M. LOCATED AT 1911 59TH AVENUE, CITY OF GREELEY, COUNTY OF WELD, STATE OF COLORADO 0.91 AC.

PROJECT NUMBER: SPR2024-0022

LEGAL DESCRIPTION:

LOT 3, THE VILLAGE AT FOX RUN, A SUBDIVISION TO THE CITY OF GREELEY, COUNTY OF WELD, STATE OF COLORADO.

BASIS OF BEARING:

BEARINGS ARE BASED ON THE EAST LINE OF LOT 3, THE VILLAGE AT FOX RUN HAVING A NAD83 COLORADO STATE PLANE NORTH ZONE GRID BEARING OF S01°00'19"E AS MEASURED AND BOUNDED BY A FOUND #5 REBAR, 0.2' BELOW GRADE, AT THE NORTHEAST CORNER OF SAID LOT AND BY A FOUND REBAR WITH 1" ORANGE PLASTIC CAP STAMPED "PLS 34995", 0.4' BELOW GRADE, AT THE SOUTHEAST CORNER OF SAID LOT.

BENCHMARK:

CITY OF GREELEY CONTROL POINT 56609D, ALSO BEING THE SOUTHEAST CORNER OF SECTION 9, TOWNSHIP 5 NORTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN - 3-1/4" DIAMETER ALUMINUM CAP STAMPED "MCRAE & SHORT INC" "LS 7242" "1994", 0.4' BELOW GRADE IN A RANGE BOX, IN THE INTERSECTION OF 20TH STREET AND 59TH AVENUE. ELEVATION: 4849.03 FEET (NAVD 1988 DATUM). THE CONTOURS SHOWN HEREON ARE AT ONE (1) FOOT INTERVALS.

CONTACTS:

OWNER/DEVELOPER: SVA GREELEY, LLC KEITH VAN TASSELL 4609 S TIMBER RD, SUITE 103B FORT COLLINS, CO 80528 PH: 970-217-9544

BATTISTA DESIGN PAUL BATTISTA

3650 WADSWORTH BLVD

WHEAT RIDGE, CO 80033

PH: (303) 428-4895

HCI ENGINEERING A DIVISION OF HABERER CARPENTRY INC. COLE HABERER, PE 621 SOUTHPARK DR., SUITE 1600 LITTLETON, CO 80210

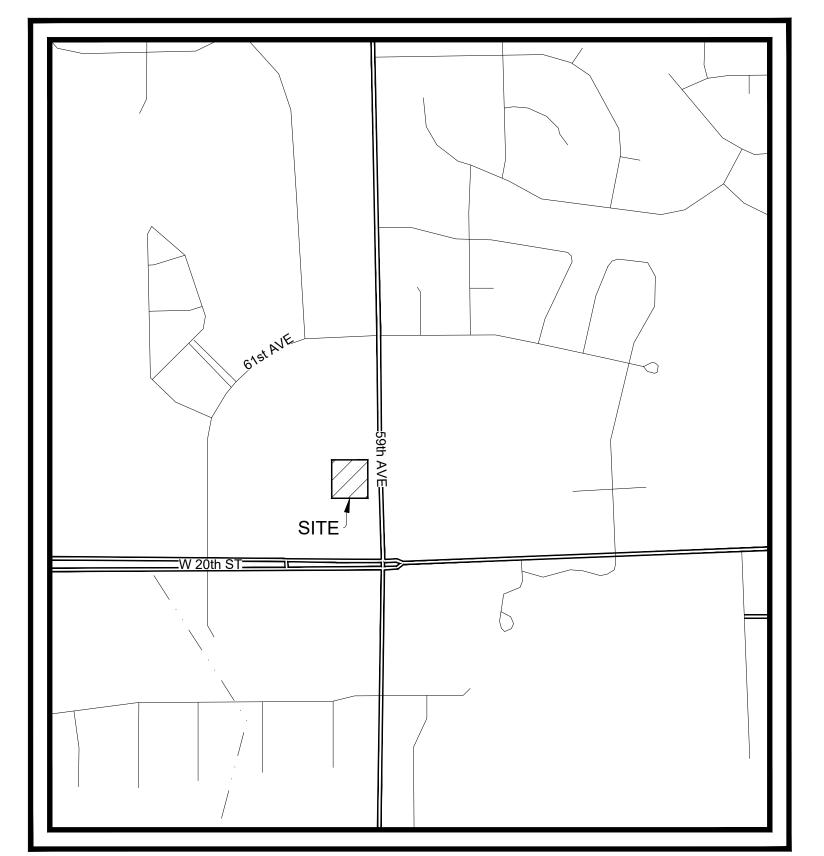
ENGINEERING SERVICE COMPANY JEFFERY A MILLER 14190 E EVANS AVE AURORA, CO 80014 PH: (303) 337-1393

PH: 303-979-3900

CIVIL ENGINEER / APPLICANT: LANDSCAPE ARCHITECT: VALERIAN, LLC CASSIE KASLON 165 S UNION BLVD, SUITE 366

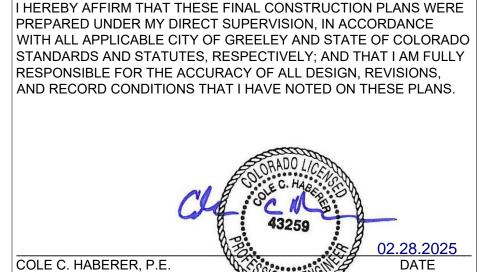
> LAKEWOOD, CO 80227 PH: 303-347-1200

> > PHOTOMETRIC ENGINEER: ROSSI ENGINEERING, INC VINCE ROSSI 5376 S GIBRALTAR CT CENTENNIAL, CO 80015 PH: (303) 720-9827

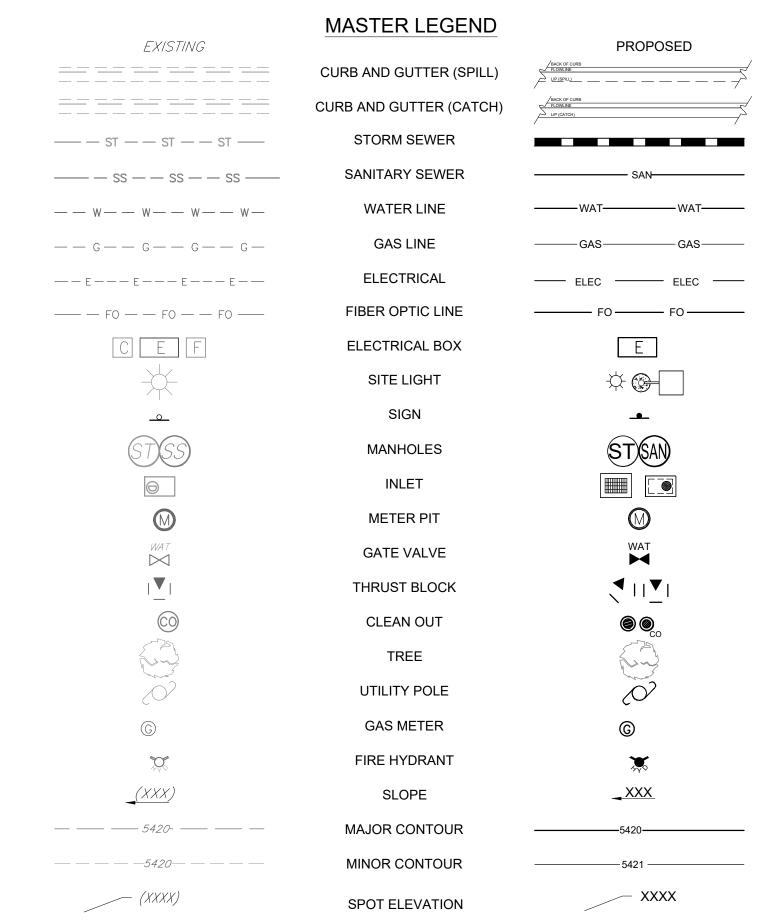


VICINITY MAP N.T.S

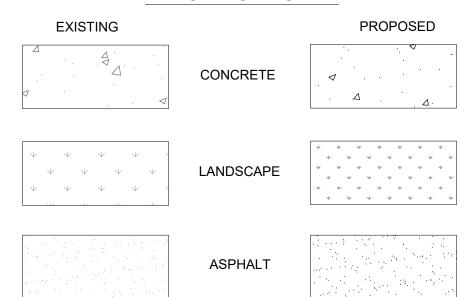
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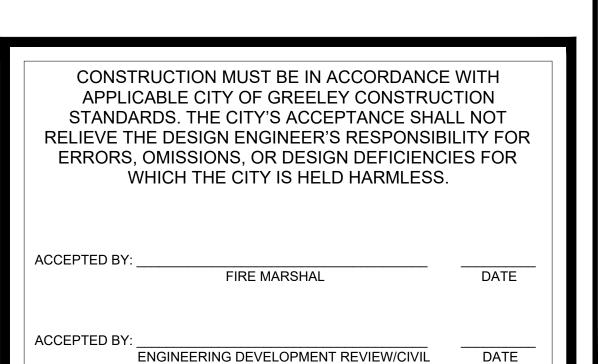


STATE OF COLORADO NO. 43259



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REVISIONS: 08.05.24 | Submittal #1 10.29.24 | Submittal #2 12.13.24 | Submittal #3 01.17.25 | Submittal #4 02.07.25 | Submittal #5 02.28.25 FINAL Project No: 24_06 Drawn By: GJB Checked By: CCH

Date Issued: 26.02.2025

COVER

STORMWATER GENERAL NOTES:

- 1. ALL STORMWATER FACILITY CONSTRUCTION SHALL CONFORM TO THE MOST RECENT VERSION OF CITY OF GREELEY STANDARD DETAILS. CONSTRUCTION SPECIFICATIONS FOR STORMWATER FACILITIES NOT COVERED BY THE CITY'S STANDARD DETAILS SHALL BE THOSE IN THE MOST RECENT VERSION OF THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR THOSE PUBLISHED BY THE MILE HIGH FLOOD DISTRICT (MHFD). DETAILS NOT COVERED BY THE CITY'S STANDARD DETAILS SHALL BE THOSE IN THE CDOT MISCELLANEOUS STANDARD PLANS (M-STANDARDS) OR THOSE PUBLISHED BY THE MHFD OR AS APPROVED BY THE CITY OF GREELEY.
- 2. CITY STANDARD DETAILS ARE NOT TO SCALE UNLESS A SCALE IS INDICATED.
- 3. REMOVE ALL DEBRIS FROM TRENCHES, INCLUDING SODA CANS, RAGS, PIPE BANDING MATERIAL, ETC. BEFORE BACKFILLING.
- 4. ALL REBAR USED FOR STORM DRAINAGE STRUCTURES SHALL BE EPOXY COATED.
- 5. THE CONTRACTOR MUST FOLLOW THE REQUIREMENTS IN THE STATE STORMWATER PERMIT INCLUDING DAILY STREET AND WALKWAY SWEEPING AND DUST CONTROL, USING WATER AS A DUST PALLIATIVE WHERE REQUIRED. COSTS FOR THIS WORK ARE INCLUDED IN THE ACCEPTED TOTAL BID AND NO ADDITIONAL PAYMENT SHALL BE MADE.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-CONSTRUCTED RECORD DRAWINGS TO THE CITY OF GREELEY'S PUBLIC WORKS DEPARTMENT IN ACCORDANCE WITH THE CITY'S STORM DRAINAGE DESIGN CRITERIA.
- 7. THE CONTRACTOR IS REQUIRED TO HAVE A CURRENT CITY OF GREELEY CONTRACTOR'S LICENSE TO PERFORM ANY WORK IN PUBLIC RIGHT-OF-WAY OR EASEMENTS.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK.
- 9. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ALL CONSTRUCTION-RELATED CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK AT ALL TIMES. ANY CITY INSPECTIONS COMPLETED DURING CONSTRUCTION ARE NOT INTENDED TO EVALUATE THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- 10. WORKING HOURS SHALL BE BETWEEN 7:00 AM AND 6:00 PM ON NORMAL CITY OF GREELEY BUSINESS DAYS UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE CITY.
- 11. THE OWNER SHALL ENSURE THAT THE SIZE AND TYPE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK ARE LOCATED AND SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INCLUDING, BUT NOT LIMITED TO, ATMOS ENERGY, CENTURYLINK, XCEL ENERGY, COMCAST, AND THE GREELEY WATER AND SEWER DEPARTMENT, PRIOR TO COMMENCING CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES FIELD LOCATED.

GENERAL NOTES:

- 1. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY, OR EASEMENT SHALL CONFORM TO THE CITY OF GREELEY CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT. A PERMIT FROM PUBLIC WORKS DEPARTMENT (970-350-9881) IS REQUIRED FOR ALL CONSTRUCTION IN PUBLIC RIGHT-OF-WAY OR EASEMENTS.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH CITY REPRESENTATIVES BEFORE A PERMIT WILL BE ISSUED. CALL UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK
- 3. THE CONTRACTOR SHALL NOTIFY CONSTRUCTION SERVICES (970) 350-9539 AT LEAST 24 HOUR PRIOR TO REQUIRED INSPECTION.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/ DEVELOPER, AND THE CITY, OF ANY PROBLEMS IN CONFORMING TO THE ACCEPTED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS CONSTRUCTION.
- 5. IT IS THE RESPONSIBILITY OF THE DEVELOPER DURING CONSTRUCTION ACTIVITIES TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGED CONDITIONS, OR DESIGN ERRORS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROJECT. IF, IN THE OPINION OF THE CITY, THE MODIFICATIONS PROPOSED BY THE DEVELOPER, TO THE ACCEPTED PLANS, INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO THE FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR RE-SUBMITTING THE REVISED PLANS TO THE CITY OF GREELEY FOR ACCEPTANCE PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE PROJECT. ANY IMPROVEMENTS NOT CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED PLANS, OR THE ACCEPTED REVISED PLANS, SHALL BE REMOVED AND RECONSTRUCTED ACCORDING TO THE APPROVED PLAN.
- 6. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE CITY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- 7. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE GREELEY SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS. ANY MONUMENT THAT MUST BE DESTROYED FOR CONSTRUCTION SHALL BE REPLACED. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL LICENSED SURVEYOR (PLS) PRIOR TO DISTURBING ANY MONUMENTS.
- 9. PRIOR TO FINAL PLACEMENT OF SURFACE PAVEMENT, ALL UNDERGROUND UTILITY MAINS SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT BEYOND CURB LINE, WHEN ALLOWED BY THE UTILITY. SERVICE FROM PUBLIC UTILITIES AND FROM SANITARY SEWERS SHALL BE MADE AVAILABLE FOR EACH LOT IN SUCH A MANNER THAT WILL NOT BE NECESSARY TO DISTURB THE STREET PAVEMENT, CURB, GUTTER, AND SIDEWALK WHEN CONNECTIONS ARE MADE.
- 10. CONTRACTOR SHALL RESTRICT WORKING HOURS TO BETWEEN 7:00 AM AND 6:00 PM ON NORMAL CITY OF GREELEY BUSINESS DAYS UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE CITY.

WATER AND SANITARY SEWER GENERAL NOTES:

- 1. ALL CONSTRUCTION WORK TO BE ACCEPTED BY THE CITY SHALL CONFORM TO THE CITY OF GREELEY CONSTRUCTION SPECIFICATIONS AND DESIGN STANDARDS.
- 2. ALL OVER LOT GRADING IN THE RIGHT-OF-WAY OR EASEMENT SHALL BE COMPLETED PRIOR TO INSTALLING POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION LINES.
- 3. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CALL UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 OR DIAL 811 FOR UTILITY LOCATES 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- 4. MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL CLEAR DISTANCE SEPARATION BETWEEN POTABLE WATER MAINS/SERVICES AND SANITARY SEWER OR NON-POTABLE IRRIGATION MAINS/SERVICES. POTABLE WATER MAINS/SERVICES ARE TO BE LOCATED 18-INCHES MINIMUM ABOVE THE SANITARY SEWER OR NON-POTABLE IRRIGATION MAINS/SERVICES. IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS AND THE SANITARY SEWER OR NON-POTABLE MAINS/SERVICES CANNOT BE LOCATED BELOW THE WATER MAIN OR SERVICE, A CLEAR VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BELOW CANNOT BE MAINTAINED, OR A MINIMUM TEN (10) FOOT HORIZONTAL SEPARATION CANNOT BE ACHIEVED, THE CITY SHALL BE CONTACTED IMMEDIATELY TO REVIEW THE SITUATION.
- 5. IN ALL INSTANCES WHERE A WATER LINE LOWERING, POTABLE OR NON-POTABLE, IS REQUIRED DUE TO UNFORSEEN FIELD CONDITIONS, A DETAILED DRAWING SHALL BE PROVIDED TO THE CITY FOR ACCEPTANCE PRIOR TO PERFORMING THE WORK.

- WHERE POTABLE WATER, SANITARY SEWER, AND NON-POTABLE IRRIGATION LINES ARE LOCATED IN COMMON UTILITY EASEMENT AREAS, THERE SHALL BE NO OTHER UTILITIES LOCATED HORIZONTALLY WITHIN TEN (10) FEET OF EITHER LINE EXCEPT AT APPROVED CROSSINGS.
- CONTRACTOR SHALL NOTIFY THE CITY ONE (1) WEEK PRIOR TO COMMENCING WORK AFTER CITY ACCEPTED CONSTRUCTION DRAWINGS HAVE BEEN DISTRIBUTED AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD WITH THE CITY.
- 8. CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO BE CROSSED BY POTABLE WATER, SANITARY SEWER, OR NON-POTABLE IRRIGATION LINES AT LEAST 24 HOURS PRIOR TO CROSSING TO ENSURE 18" MINIMUM CLEARANCE FOR OPEN CUT CROSSINGS AND 36" MINIMUM CLEARANCE FOR BORED CROSSINGS. HORIZONTAL AND VERTICAL LOCATION OF CROSSED EXISTING UTILITIES SHALL BE RECORDED ON THE AS-CONSTRUCTED RECORD DRAWINGS.
- 9. SHOULD ANY VARIATIONS BEFORE OR DURING CONSTRUCTION TO THE POTABLE WATER DISTRIBUTION, SANITARY SEWER COLLECTION, OR NON-POTABLE IRRIGATION SYSTEM DESIGNS BE CONSIDERED, NOTICE MUST FIRST BE GIVEN TO THE CITY TO DETERMINE IF IT NEEDS ACCEPTANCE BY THE CITY. IF SO, A NEW PLAN SHALL BE DRAWN AND SUBMITTED TO THE CITY FOR ACCEPTANCE BY THE DESIGN ENGINEER 72 HOURS PRIOR TO CONSTRUCTION.
- 10. FINAL CONSTRUCTION PLANS ARE VALID FOR CONSTRUCTION ONE (1) YEAR FROM THE DATE OF CITY SIGNATURE ACCEPTANCE.

11. ALL POTABLE WATER MAINS, SERVICES, AND HYDRANT LINES SHALL HAVE A MINIMUM COVER OF FIVE (5)

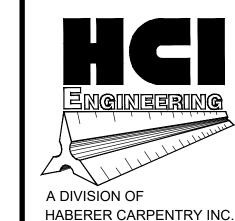
- FEET AND A MAXIMUM COVER OF SIX (6) FEET UNLESS OTHERWISE INDICATED ON THE ACCEPTED CONSTRUCTION DRAWINGS.
- 12. ALL NON-POTABLE WATER MAINS AND SERVICES SHALL HAVE A MINIMUM COVER OF THREE AND A HALF (3.5) FEET AND A MAXIMUM COVER OF SIX (6) FEET UNLESS OTHERWISE INDICATED ON THE ACCEPTED CONSTRUCTION DRAWINGS.
- THE EXISTING WATER SYSTEM. VALVES WHICH PASS TESTING FOR PRESSURE AND LEAKAGE AT THE TIME OF INSTALLATION AND THE TESTING WAS PERFORMED IN THE PRESENCE OF THE CITY MAY BE CONSIDERED AS A BULKHEAD.

13. ALL NEW WATER MAINS SHALL BE BULKHEADED AND TESTED AND APPROVED PRIOR TO CONNECTION TO

- 14. VERIFICATION SURVEY TOP OF PIPE ELEVATIONS AT ALL POTABLE AND NON-POTABLE WATER LINE VALVES, AND SANITARY SEWER MANHOLE INVERTS SHALL BE SURVEYED AND PROVIDED TO THE CITY BY THE DESIGN ENGINEER FOR ACCEPTANCE PRIOR TO PAVING CONSTRUCTION. THE VERIFICATION SURVEY SHALL ALSO PROVIDE SEWER PIPE SLOPES AND LENGTH AND PROPOSED FINISHED GROUND ELEVATIONS AT ALL VALVE BOXES AND MANHOLE RIM ELEVATIONS.
- 15. ALL UTILITY CONDUIT CROSSINGS OF POTABLE WATER, SANITARY SEWER AND NON-POTABLE IRRIGATION LINES SHALL BE ENCASED IN HIGH DENSITY POLYETHYLENE (HDPE) PIPE, WITH A MINIMUM STANDARD DIMENSION RATIO (SDR) 11 ACROSS THE ENTIRE EASEMENT OR RIGHT-OF-WAY WIDTH. THE ENCASEMENT JOINT SHALL BE BUTT FUSED. FLEXIBLE JOINTS ARE NOT ALLOWED.
- 16. WET TAPS SHALL BE DRILLED BY THE CITY FOR A FEE. CALL 970-350-9810 AT LEAST 48 HOURS IN ADVANCE TO PAY FEES AND SCHEDULE TAP.
- 17. AN A.S.S.E. APPROVED BACKFLOW PREVENTION ASSEMBLY IS REQUIRED ON EACH DOMESTIC WATER SERVICE LINE (WATER SERVICE, DEDICATED FIRE LINE, IRRIGATION SERVICE) IMMEDIATELY AFTER IT ENTERS THE BUILDING. INSTALLATION OF A BACKFLOW PREVENTION ASSEMBLY IS REQUIRED BY FEDERAL AND STATE HEALTH REGULATIONS. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE A REDUCED PRESSURE ZONE (RPZ) DEVICE AND SHALL BE LOCATED NEAR A FLOOR DRAIN. THIS ASSEMBLY MUST BE TESTED BY A CERTIFIED TESTER UPON INSTALLATION AND THEREAFTER ON AN ANNUAL BASIS TO COMPLY WITH CITY CODE AND STATE HEALTH DEPARTMENT REGULATIONS. [CHAPTER 14.08.195], [VOLUME III, APPENDIX A6]
 - THE FOLLOWING LINK PROVIDES A LIST OF CERTIFIED TESTERS FOR BACKFLOW ASSEMBLIES: HTTP://GREELEYGOV.COM/SERVICES/WS/DEVELOPMENT/CROSS-CONNECTION-AND-BACKFLOW-PREVENTION
 - BACKFLOW ASSEMBLY TEST AND MAINTENANCE REPORTS CAN BE MAILED TO THE CITY OF GREELEY WATER AND SEWER DEPARTMENT AT 1001 11TH AVE, 2ND FLOOR, GREELEY, CO 80631, FAXED TO 970-350-9805, OR EMAILED TO CHRISSY.LUTZ@GREELEYGOV.COM ALL BACKFLOW TEST REPORTS NEED TO BE PROVIDED TO THE WATER AND SEWER DEPARTMENT UPON INSTALLATION AND THEREAFTER ON AN ANNUAL BASIS.
- 18. APPROPRIATE BACKFLOW PREVENTION ASSEMBLIES ARE REQUIRED ON THE APPLICABLE USES INCLUDING DOMESTIC WATER SERVICE, FIRE SPRINKLER SYSTEM, AND LANDSCAPE IRRIGATION SYSTEM. ALL BACKFLOW TEST REPORTS SHALL BE PROVIDED TO THE CITY OF GREELEY WATER AND SEWER DEPARTMENT UPON INSTALLATION AND ON AN ANNUAL BASIS THEREAFTER.
- 19. PRIOR TO EXCAVATION AND CONSTRUCTION OVER AND NEAR THE EXISTING WATER AND SEWER MAINS, PLEASE CONTACT THE WATER AND SEWER DEPARTMENT RIGHT-OF-WAY STAFF AT (970) 350-9539, TO COMPLETE THE APPLICABLE DOCUMENTATION TO WORK WITHIN THE RIGHT OF WAY AND EASEMENTS.
- 20. ABANDON THE EXISTING WATER LINE PER CITY OF GREELEY WATER AND SEWER SPECIFICATIONS. A CITY OF GREELEY REPRESENTATIVE MUST BE PRESENT DURING ABANDONMENT OF SERVICES.

GENERAL GRADING, EROSION & SEDIMENT CONTROL NOTES:

- 1. CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT AND EROSION CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO, SILT FENCE, INLET PROTECTION, VTC PAD, WHEEL WASHOUT, AND SEDIMENT BASINS BEFORE COMMENCING ANY LAND CLEARING OR GRADING ACTIVITIES. THE CONTRACTOR SHALL LIMIT TOPSOIL STRIPPING OPERATIONS TO WITHIN THE AREAS IN WHICH THEY WILL BE IMMEDIATELY WORKING. THE CONSTRUCTION OF UNDERGROUND UTILITIES SHALL BE INCLUDED AS A LAND DISTURBING ACTIVITY. ALL EXCAVATED MATERIAL SHALL BE PLACED WHERE SEDIMENT WILL ERODE BACK INTO THE TRENCH. ALL TRENCHES SHALL BE BACKFILLED BY THE END OF THE DAYS WORK; BACKFILL SHALL BE PERMANENTLY STABILIZED BEFORE CONSTRUCTION IS CONSIDERED COMPLETE.
- 2. ALL DISTURBED AREAS AND SOIL STOCKPILES SHALL BE ADEQUATELY STABILIZED AS DEFINED IN THE URBAN DRAINAGE FLOOD CONTROL DISTRICT (UDFCD), VOLUME 3, CONSTRUCTION BEST MANAGEMENT PRACTICES, SECTION 3.0 "EROSION CONTROL". ALL DISTURBED SOILS AND SOIL STOCKPILES SHALL BE WATERED AND MAINTAINED IN A ROUGHENED CONDITION AT ALL TIMES DURING CONSTRUCTION ACTIVITIES TO PREVENT WIND-CAUSED EROSION. ALL LAND DISTURBING ACTIVITIES WILL BE IMMEDIATELY DISCONTINUED WHEN FUGITIVE DUST IMPACTS ADJACENT PROPERTIES, AS DETERMINED BY CITY INSPECTOR. PERMANENT OR TEMPORARY NATIVE SEED (SEE SDDC MANUAL SECTION 14 FOR SEEDING SPECIFICATIONS) SOIL STABILIZATION SHALL BE REQUIRED WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED. IF DISTURBED AREAS OR STOCKPILES ARE NOT BROUGHT TO FINAL GRADE WITHIN 30 DAYS FOLLOWING THE INITIAL DISTURBANCE, OR RE-DISTURBANCE, TEMPORARY STABILIZATION MEASURES SHALL BE REQUIRED. NO SOIL STOCKPILE SHALL EXCEED TEN (10) FEET IN HEIGHT. ALL SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED A SLOPE OF 4V:1H.
- 3. ALL STORM SEWER INLETS SHALL BE PROTECTED FROM THE ENTRY OF SEDIMENT-LADEN WATER. HAY BALES ARE NOT RECOGNIZED BY THE CITY OF GREELEY AS AN ACCEPTABLE FORM OF EROSION CONTROL.
- 4. INSPECTION OF ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REQUIRED AT THE END OF EACH DAY'S WORK, WITH NECESSARY MAINTENANCE AND REPAIRS PROVIDED IMMEDIATELY. THE CITY OF GREELEY INSPECTOR SHALL, AT THEIR DISCRETION, REQUIRE ANY EROSION CONTROL DEVICES BE REPAIRED, REPLACED, RELOCATED, MODIFIED, OR REMOVED. SUCH REQUESTS SHALL BE COMPLETED WITHIN 5 WORKING DAYS FOLLOWING RECEIPT OF THE WRITTEN REQUEST FROM THE INSPECTOR. ALL PUBLIC RIGHT OF WAY POLLUTED WITH DIRT, MUD, OR DEBRIS SHALL BE SWEPT CLEAN AT THE END OF EACH DAYS WORK OR AFTER STORM EVENTS, AS NECESSARY. ALL TEMPORARY AND PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AS SOON AS THEIR FUNCTION HAS BEEN FULFILLED. SEDIMENT TRAPS/BASINS SHALL BE CLEANED AND REMOVED, OR STABILIZED, WHEN ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED. THE SITE CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OFF ALL SILT FROM THE SITE, IF IT IS NOT REUSABLE ON SITE.
- 5. THE LANDOWNER SHALL BE HELD RESPONSIBLE FOR THE LONG-TERM STABILITY OF CUT AND FILL SLOPES AND THE SUCCESSFUL ESTABLISHMENT OF PERMANENT VEGETATIVE COVER ON EXPOSED SOIL AS DEFINED IN THE UDFCD, VOLUME 3, CONSTRUCTION BEST MANAGEMENT PRACTICES, SECTION 3.2 "MULCHING".
- 6. ALL CONSTRUCTION SUPPLIES OR MATERIALS USED OR STORED ON SITE MUST BE DISPOSED OF PROPERLY AND MUST MEET ALL APPLICABLE MATERIAL SAFETY DATA SHEET CRITERIA.
- 7. THE STATE STORMWATER DISCHARGE PERMIT HOLDER MAY BE LIABLE FOR ANY VIOLATIONS RESULTING FROM THE ACTIONS TAKEN BY SITE CONTRACTORS, SUBCONTRACTORS, MAINTENANCE CREWS, ETC.
- 8. RESTORATION OF ANY AREAS DISTURBED BY THE PROPOSED GRADING ACTIVITIES SHALL BE DONE IN COMPLIANCE WITH THE REQUIREMENTS OUTLINED IN SECTION 14 VEGETATION & IRRIGATION OF THE STORM DRAINAGE DESIGN CRITERIA AND CONSTRUCTION STANDARDS.
- 9. CITY OF GREELEY REPRESENTATIVE SHALL BE ON SITE DURING ALL SEEDING ACTIVITIES TO INSPECT THE CONDITIONS AND ENSURE COMPLIANCE WITH THE STORM DRAINAGE DESIGN CRITERIA AND CONSTRUCTION STANDARDS.
- 10. TO SCHEDULE THIS REQUIRED INSPECTION, PLEASE CALL (970) 336-4074 AT LEAST 48 HOURS IN ADVANCE OF THE SEEDING ACTIVITIES.
- 11. ALL SEED BAGS TAGS MUST BE TURNED IN TO THE CITY OF GREELEY REPRESENTATIVE.



621 SOUTHPARK DR., SUITE 1600

LITTLETON CO, 80120

PHONE: (303) 979-3900



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MARKING OF UNDERGROUN
MEMBER UTILITIES.

GREELEY - DENTAL BUILDI ONSTRUCTION DOCUMENTS SPR2024-0022 1911 59th AVENUE GREELEY, CO 80634

REVISIONS:

No. Date: Description:

1 08.05.24 Submittal #1

2 10.29.24 Submittal #2

3 12.13.24 Submittal #3

4 01.17.25 Submittal #4

5 02.07.25 Submittal #5

6 02.28.25 FINAL

Drawn By: GJB
Checked By: CCH
Date Issued: 26.02.2025
Sheet Name:

Project No: 24 06

GREELEY NOTES
Sheet

Number

C11

Engineering Projects\2024\24_06 - Greeley Ortho\CAD\Plans\CDs\24_06 CD -

DEMOLITION NOTES:

- 1. TREE REMOVAL/RELOCATION SHALL BE COORDINATED WITH LANDSCAPE PLANS AND OWNER'S REPRESENTATIVE.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY THE EXTENTS OF REQUIRED DEMOLITION PRIOR TO CONSTRUCTION. ADDITIONAL SCOPE MAY BE REQUIRED THAN SHOWN HEREON. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH STRUCTURAL MECHANICAL, ELECTRICAL, PLUMBING, LANDSCAPING AND ARCHITECTURAL DRAWINGS.
- 3. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES PRIOR TO CONSTRUCTION.
- 4. THESE PLANS ARE BASED ON THE SURVEY BY FALCON SURVEYING DATED 5/22/2023. HCI ENGINEERING HAS NOT CONDUCTED ANY ON SITE INVESTIGATION FOR EXISTING UTILITIES. ADDITIONAL UTILITIES, IN USE OR ABANDONED, MIGHT EXIST ON, NEAR OR CROSSING THE SUBJECT PROPERTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT ON SITE INVESTIGATION FOR UNKNOWN UTILITIES AND CONFIRM UTILITY LOCATIONS SHOWN HEREON. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCY.
- 5. CONTRACTOR SHALL PRESERVE EXISTING VEGETATION OUTSIDE OF THE PROJECT LIMITS. ANY DAMAGE TO VEGETATION OR SITE IMPROVEMENTS OUTSIDE OF THE PROJECT LIMITS DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 6. BARRIERS/FENCING SHALL BE PROVIDED PRIOR TO SITE DEMOLITION TO PROVIDE FOR SAFETY OF WORKERS AND PASSERSBY. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ROUTES DURING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL SUBMIT A DETAIL DEMOLITION PLAN OUTLINING REMOVAL.
- 8. THE CONTRACTOR SHALL PROVIDE FOR DUST CONTROL DURING DEMOLITION TO INCLUDE COVERING TRUCKS HAULING DEBRIS OFFSITE, PERIODICALLY CLEANING AND SWEEPING ADJACENT STREETS AND DRIVES AND/OR USING DUST PALLIATIVE AS NEEDED.
- 9. THE CONTRACTOR SHALL SAW CUT EXISTING ASPHALT PAVEMENT AT DEMOLITION LIMITS. APPLY SS-1 TACKCOAT AT EDGE PRIOR TO PLACING NEW ASPHALT.
- THEN BROKEN AT THE JOINT TO CREATE A ROUGH SURFACE TO ACCEPT NEW CONCRETE.

10. EXISTING CONCRETE AT DEMOLITION LIMITS SHALL BE SCORED

- 11. THE CONTRACTOR SHALL REFER TO PROJECT SPECIFICATIONS FOR THE DISPOSAL OF ALL DEMOLISHED ITEMS.
- 12. THOROUGHLY CLEAN ALL AREAS, SURFACES, BUILDINGS AND STRUCTURES IMPACTED BY DEMOLITION ACTIVITIES PRIOR TO START OF NEW CONSTRUCTION.
- 13. DEMOLITION SHALL INCLUDE (AT A MINIMUM): REMOVAL OF ASPHALT, CONCRETE, AND OR GRAVEL
- SURFACES.
- REMOVAL OR TREES. BUSHES AND FOLIAGE. AS DIRECTED BY LANDSCAPE. TREE REMOVAL OR TRANSPLANTING SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND LANDSCAPE.
- REMOVAL OF FENCE.
- REMOVAL OF ANY UNSATISFACTORY SOIL, AS IDENTIFIED BY THE GEOTECHNICAL ENGINEER.

GRADING NOTES:

- 1. ALL EARTHWORK REQUIRED OF THIS CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS, GEOTECHNICAL INVESTIGATION FOR THE SITE AND THE APPROPRIATE GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS.
- 2. A PRE CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE DEVELOPER, ENGINEER, CONTRACTOR AND THE APPROPRIATE GOVERNING AGENCY PRIOR TO ANY CONSTRUCTION.
- 3. REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL DRAWINGS FOR COMPACTION AND EARTHWORK REQUIREMENTS FOR THE BUILDING PADS AND ADJACENT AREAS. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
- 4. IF THE SUBGRADE SHOULD BECOME FROZEN, DESICCATED, SATURATED, OR DISTURBED, THE AFFECTED MATERIAL SHOULD BE REMOVED OR THESE MATERIALS SHOULD BE SCARIFIED, MOISTURE CONDITIONED, AND RECOMPACTED PRIOR TO FOUNDATION, FLOOR SLAB AND PAVEMENT CONSTRUCTION.
- 5. FILL SHOULD BE PLACED AND COMPACTED IN HORIZONTAL (8") LIFTS, USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE RECOMMENDED MOISTURE CONTENTS AND DENSITIES THROUGHOUT THE LIFT. REFER TO GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS.
- 6. THE PLACEMENT AND COMPACTION OF FILL AND BACKFILL SHOULD BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. REFER TO THE COMPACTION REQUIREMENTS IN THE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
- 7. ALL SOILS USED FOR FILL AND BACKFILL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION. THE GEOTECHNICAL ENGINEER SHALL OBSERVE AND TEST THE FILL COMPACTION, APPROVE THE FILL MATERIALS AND COMMENT, AS NEEDED, ON THE METHOD OF PLACING AND COMPACTION, IN WRITING, TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE GEOTECHNICAL ENGINEER WHEN TESTS ARE TO BE MADE. THE GEOTECHNICAL ENGINEER SHALL APPROVE ALL FOUNDATION EXCAVATIONS AND GIVE WRITTEN APPROVAL OF THE COMPLETED FOUNDATIONS TO THE ARCHITECT. QUALITY CONTROL BY AN INDEPENDENT TESTING AGENCY AND GEOTECHNICAL ENGINEER SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.
- 8. NO RUBBLE OR DEBRIS INCLUDING TIMBER, CONCRETE RUBBLE, TREES, BRUSH, AND ASPHALT SHALL BE PLACED IN THE BACKFILL UNDER ANY OF THE PROPOSED BUILDINGS, STREETS, CURB & GUTTER, SIDEWALK, DRAINAGE STRUCTURES, WITHIN FIVE (5) FEET OF A BUILDING FOOTPRINT OR BE IN THE PLACEMENT OF ANY UNCLASSIFIED FILL. PROPERLY GRADED RUBBLE MAY BE USED IN SOME LOCATIONS AS SPECIFIED AND VERIFIED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND HAULING OF SUCH MATERIALS TO A SUITABLE SPOIL AREA. COSTS ASSOCIATED WITH THE REMOVAL OF SUCH MATERIALS SHALL BE PAID FOR AS DOCUMENTED IN THE PROJECT SPECIFICATIONS.
- 9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, MAINTENANCE AND OPERATION OF ANY REQUIRED DEWATERING SYSTEM. THE CONTRACTOR SHALL PERFORM SUCH INDEPENDENT INVESTIGATION AS DEEMED NECESSARY TO DETERMINE THE SUBSURFACE GROUNDWATER CONDITIONS AND UNSTABLE SOIL CONDITIONS TO BE ENCOUNTERED THROUGHOUT THE CONSTRUCTION.
- 10. IMMEDIATELY PUMP OR BAIL OUT WATER FOUND IN EXCAVATIONS, WHETHER RAIN OR SEEPAGE. EXCAVATIONS MUST BE KEPT FREE FROM WATER AT ALL TIMES. TAKE ALL MEASURES AND FURNISH ALL EQUIPMENT AND LABOR NECESSARY TO CONTROL THE FLOW. DRAINAGE AND ACCUMULATION OF WATER AS REQUIRED TO PERMIT COMPLETION OF THE WORK AND TO AVOID DAMAGE TO THE WORK. CONTRACTOR SHALL COMPLY WITH ALL CDPHE AND OSHA RULES AND REGULATIONS AT ALL TIMES.
- 11. WHEN FREEZING TEMPERATURES MAY BE EXPECTED. DO NOT EXCAVATE TO THE FULL DEPTH INDICATED UNLESS THE FOOTING OR SLABS ARE TO BE POURED IMMEDIATELY AFTER THE EXCAVATION HAS BEEN COMPLETED. IF PLACING OF CONCRETE IS DELAYED, PROTECT THE BOTTOMS OF EXCAVATIONS FROM FROST UNTIL CONCRETE IS PLACED.
- 12. NO FILL MATERIAL SHALL BE PLACED, SPREAD OR ROLLED WHILE IT IS FROZEN OR THAWING OR DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IN PROGRESS IS INTERRUPTED BY HEAVY RAIN, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL THE GEOTECHNICAL ENGINEER INDICATES THAT THE MOISTURE CONTENT AND DENSITY OF THE PREVIOUSLY PLACED FILL ARE AS SPECIFIED.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ADEQUATE SHORING AND/OR BRACING NECESSARY TO FACILITATE THE EXCAVATION ASSOCIATED WITH THE CONSTRUCTION OF THE WALLS, PIPELINES AND FOUNDATIONS. THE BRACING AND/OR SHORING OF EXCAVATED WALLS OR TRENCHES SHALL BE IN COMPLIANCE WITH OSHA REGULATIONS AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. THE COST OF SHORING AND/OR BRACING SHALL BE INCLUDED IN THE COST OF THE SPECIFIC CONSTRUCTION ITEM REQUIRING THE SHORING AND/OR BRACING.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND HAULING OF UNSUITABLE FILL MATERIALS TO A SUITABLE SPOIL AREA. EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. THE COST OF HAULAGE AND SPOILING OF EXCESS EXCAVATED MATERIALS SHALL BE PAID FOR AS DOCUMENTED IN THE PROJECT SPECIFICATIONS.

- 15. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE PRIOR TO BIDDING TO VERIFY SITE CONDITIONS.
- 16. PROPOSED GRADING CONTOURS SHOWN ON THE PLAN ARE TO FINAL GRADE.
- 17. ALL VERTICAL SPOT ELEVATIONS SHOWN ON THE GRADING PLAN ARE FLOWLINE OF CURB (FL), UNLESS OTHERWISE NOTED.
- 18. ALL SLOPES EQUAL TO OR GREATER THAN 4:1 SHALL REQUIRE EROSION CONTROL BLANKET, NORTH AMERICAN GREEN SC150BN DOUBLE NETTED OR EQUAL AS A TEMPORARY STABILIZATION MEASURE.
- 19. ALL SURFACES NOT RECEIVING PAVEMENT OR OTHER TREATMENT SHALL BE SEEDED AND MULCHED
- 20. BUILDING CONTRACTOR(S) WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- 21. SIDEWALK SLOPES SHALL NOT EXCEED 2.0% MAXIMUM CROSS SLOPES AND 5.0% MAXIMUM LONGITUDINAL SLOPES, UNLESS OTHERWISE NOTED. THE SLOPE IN THE HANDICAP PARKING SPACES AND ASSOCIATED STRIPED ISLAND SHALL NOT EXCEED 2.0%.
- 22. APPROXIMATE AREA TO BE DISTURBED = 0.65 ACRES
- 23. THESE PLANS HAVE BEEN PREPARED BY HCI ENGINEERING IN ACCORDANCE WITH AND IN RELIANCE UPON THE GEOTECHNICAL STUDY AND RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR PAVEMENT DESIGN AND RECOMMENDATIONS REGARDING EXCAVATION, COMPACTION, MATERIALS. EMBANKMENT. PAVEMENT SUBEXCAVATION. MOISTURE CONTROL, AND TOPSOIL REMOVAL AND REPLACEMENT. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF DISCREPANCIES BETWEEN THE GEOTECHNICAL REPORT RECOMMENDATIONS AND REQUIREMENTS OF THESE CONSTRUCTION DRAWINGS.
- 24. CONTRACTOR SHALL PROVIDE A 2-FOOT MINIMUM ASPHALT PATCH AT ALL NEW FLATWORK (SIDEWALK, CURB AND GUTTER, CROSS PANS, ETC..) TO EXISTING PAVEMENT LOCATIONS. THE PATCH MATCH EXISTING PAVEMENT THICKNESS. RECOMMENDATIONS PER GEOTECHNICAL REPORT OR JURISDICTIONAL STANDARDS WHICHEVER IS MOST CONSERVATIVE. IF REQUIRED, THE PATCH SHALL BE UP-SIZED AS NEED TO ENSURE GRADE SLOPES BETWEEN FLATWORK AND EXISTING PAVEMENT ARE NOT GREATER THAN 5% AND LESS THAN 2.0%. CONTRACTOR SHALL COMPLETE A FIELD INSPECTION TO DETERMINE IS ADDED PAVEMENT PATCH WORK IS NEEDED.
- 25. GRADING AND FORM CHECK SHALL BE PROVIDED TO ENGINEER PRIOR TO INSTALLATION AND POURING OF ADA RAMPS AND PARKING STALLS.
- 26. CONTRACTOR SHALL PROVIDE ENGINEER WITH TOPOGRAPHIC AS-BUILT SURVEY OF ALL CRITICAL PEDESTRIAN PATHS, RAMPS AND STRUCTURE THRESHOLDS TO ENSURE CONFORMANCE WITH ADA CRITERIA.

SIGNAGE AND STRIPING NOTES

- ALL TRAFFIC CONTROL, TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVISES (MUTCD). THE CURRENT COLORADO SUPPLEMENT AND THE APPROVED PLANS.
- 2. THE PAVEMENT MARKING PAINT SHALL BE ALKYD-RESIN TYPE, READY MIXED COMPLYING WITH AASHTO M248, TYPE I, COLOR AS NOTED ON PLANS OR CHLORINATED-RUBBER BASE TRAFFIC LANE MARKING PAINT, FACTORY-MIXED, QUICK-DRYING AND NON-BLEEDING.
- 3. INSTALL THE PAVEMENT MARKING PAINT PER THE MANUFACTURER'S RECOMMENDATIONS.
- 4. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. APPLY IN TWO COATS AT MANUFACTURER'S RECOMMENDED RESULTS. SWEEP AND CLEAN SURFACE PRIOR TO PAINTING TO ELIMINATE LOOSE MATERIAL AND DUST.
- STRIPING SHALL BE DONE WHEN THE AIR AND PAVEMENT TEMPERATURES ARE AT LEAST 50F OR AS RECOMMENDED BY THE MANUFACTURER. THE PAVEMENT SURFACE AND WEATHER CONDITIONS SHALL BE CONDUCIVE TO SATISFACTORY RESULTS.
- 6. STOP SIGN PLACEMENT LOCATIONS SHALL BE PER SECTION 2B-9 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND CDoT S-614-1.
- 7. EXISTING PAVEMENT MARKINGS CONFLICTING WITH PROPOSED DESIGN SHALL BE REMOVED BY A WATER OR SAND BLAST METHOD THAT WILL NOT DETERIORATE THE PAVEMENT, AS APPROVED BY THE ENGINEER.
- 8. HANDICAP PARKING SIGNS SHALL BE LOCATED AT EACH HANDICAP PARKING SPACE.
- ALL PAVEMENT MARKINGS FOR PARKING SPACES AND PAINTED ISLANDS SHALL BE 4-INCH WIDE WHITE STRIPES, UNLESS OTHERWISE NOTED.
- 10. STRIPED ISLANDS: 4" WIDE WHITE PAINTED STRIPES @ 36" O.C. TYPICAL, PAINTED AT A 45 DEGREE ANGLE TO PARKING SPACE
- 11. CONTRACTOR TO VERIFY FIRE LANE PAINT AND SIGN LOCATIONS WITH FIRE DEPARTMENT PRIOR TO INSTALLATION.

HCI GENERAL UTILITY NOTES:

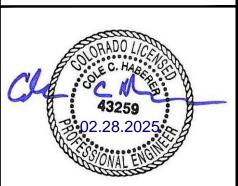
- 1. ALL WATER, SANITARY SEWER AND STORM SEWER WORK SHALL COMPLY WITH THE APPROPRIATE GOVERNING AGENCIES' STANDARDS AND SPECIFICATIONS, CURRENT EDITION, PERTINENT TO EACH UTILITY.
- 2. THE CONTRACTOR AND SURVEY CREW SHALL VERIFY ELEVATIONS OF EXISTING SANITARY SEWER, STORM SEWER, WATER LINES AND MANHOLES TO BE TIED TO PRIOR TO CONSTRUCTION OR STAKING OF PIPE. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCY.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS.
- 4. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE APPROPRIATE GOVERNING AGENCY PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 5. THE LOCATIONS OF EXISTING UTILITIES ARE BASED UPON THE BEST AVAILABLE INFORMATION, ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- 6. LOCATION OF ALL EXISTING UTILITIES (PRIVATE OR PUBLIC) SHALL BE IDENTIFIED AND VERIFIED BY CONTRACTOR PRIOR TO MOBILIZATION, CONSTRUCTION, OR ORDERING OF MATERIALS. THE CONTRACTOR SHALL BEAR THE FULL COST OF REMOVAL REPLACEMENT AND DELAY RELATED TO UNVERIFIED EXISTING CONDITIONS. WHERE THE CONTRACTOR FINDS CONFLICTS OR DISCREPANCIES THEY SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- 7. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS THAT ARE NECESSARY TO PERFORM THE PROPOSED WORK.
- 8. PIPE BACKFILLING SHALL NOT OCCUR UNTIL PIPE HAS BEEN INSPECTED.
- 9. BEGIN LAYING PIPE AT THE LOWEST POINT, WITH THE BELLS POINTING UPHILL. LAY THE PIPE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. LAY PIPE TRUE TO LINE AND GRADE AS SHOWN ON THE DRAWINGS.
- 10. ALL STORM SEWER AND SANITARY SEWER PIPE LENGTHS AND SLOPES ARE FIGURED FROM CENTER OF MANHOLE, BEND, WYE AND THE INSIDE WALL OF INLETS. PIPE LENGTHS ARE GIVEN AS A HORIZONTAL LENGTH AND ARE APPROXIMATE. PIPE LENGTHS INCLUDE THE FLARED END SECTION.
- 11. ALL STORM SEWER AND SANITARY SEWER PIPE BEDDING TO BE CLASS B BEDDING ALTERNATE. UNLESS OTHERWISE NOTED.
- 12. RCP STORM SEWER PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
- 13. ALL RCP SECTIONS SHALL BE JOINED IN SUCH A MANNER THAT THE ENDS ARE FULLY ENTERED AND THE INNER SURFACES ARE REASONABLY FLUSH. RUBBER GASKETS SHALL BE USED ON ALL PIPE JOINTS CONFORMING TO ASTM C-433. AVERAGE JOINT GAP THAT EXCEEDS ½ INCH SHALL BE FILLED WITH AN APPROVED FLEXIBLE PLASTIC SEALANT.
- 14. PVC STORM SEWER PIPES AND SANITARY MAIN / SERVICES SHALL CONFORM TO ASTM D3034 SDR 35 FOR SIZES 4-INCHES TO 15-INCHES IN DIAMETER (SOLID WALL), UNLESS OTHERWISE NOTED. GASKETS SHALL COMPLY WITH ASTM F477, CONSISTING OF A PROPERLY VULCANIZED HIGH GRADE ELASTOMERIC COMPOUND. LUBRICANTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. JOINTS SHALL BE IN CONFORMANCE WITH ASTM D3212. C900 PIPE USED FOR STORM SEWER CONSTRUCTION SHALL BE DR18.
- 15. CONSTRUCTION AND MATERIALS USED IN ALL STORM SEWER CONSTRUCTION SHALL BE PER THE APPROPRIATE GOVERNING AGENCIES STANDARDS. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
- 16. CONSTRUCTION AND MATERIALS USED IN ALL SANITARY SEWER OR WATER MAIN CONSTRUCTION SHALL BE PER THE APPROPRIATE GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
- 17. MANHOLE RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER SHALL BE SET IN CENTERED CONCRETE RINGS WITH RAM-NECK FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEVATIONS.
- 18. SANITARY AND STORM SEWER PIPE SHALL BE CONSTRUCTED A MINIMUM OF TEN-FEET FROM THE CENTER OF WATER LINES. EXCEPT WHERE THEY CROSS.
- 19. ALL WATER AND SANITARY SEWER SERVICES MUST BE INSPECTED BY THE APPROPRIATE GOVERNING AGENCIES INSPECTOR.
- 20. SANITARY SEWER CLEAN OUTS SHALL BE THE SAME SIZE AS THE HOST PIPE. CLEAN OUTS TO HAVE THREADED CAPS. COVERS TO BE TRAFFIC RATED AND FLUSH WITH FINISHED GRADE.

- 21. WATER SERVICE PIPING SHALL BE TYPE K COPPER, SOFT, UNLESS OTHERWISE NOTED. ALL WATER SERVICE PIPE SHALL BE INSTALLED WITH 5.0-FT COVER TYPICAL (4.5-FT MINIMUM) BELOW FINISHED GRADE. THE MAXIMUM COVER IS 5.5 FEET UNLESS OTHERWISE NOTED IN THE PLANS AND APPROVED BY APPROPRIATE GOVERNING AGENCY.
- 22. REFER TO LIGHTING PLAN FOR LOCATIONS OF LIGHT POLES.
- 23. WHERE APPROPRIATE, NEATLY SAW CUT ALL EXISTING CONCRETE AND ASPHALT, THE PLACEMENT OF ADDITIONAL PAVING SHALL BE DONE TO A NEAT WORK LINE, SAW CUTTING A MINIMUM OF ONE (1) FOOT. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE WORK. REPAIR/REPLACE ALL DISTURBED EXISTING ITEMS WITH LIKE MATERIALS AND THICKNESSES. ANY ASPHALT REMOVED IS TO BE REPLACED TO MEET THE SPECIFICATIONS OF THE COLORADO DEPT OF TRANSPORTATION. EXISTING CONCRETE PAVEMENT SHALL BE SCORED THEN BROKEN AT JOINT TO CREATE A ROUGH SURFACE FOR THE CONSTRUCTION JOINT.
- 24. ALL ASPHALT WORK REQUIRING PATCHING WILL BE PERFORMED TO A NEAT WORK LINE. THE EXISTING ASPHALT SHALL BE SAW CUT. ALL ASPHALT PATCH WORK SHALL BE AT LEAST 2' WIDE AFTER THE COMPLETION OF WORK. NEW CURB CAN BE PLACED FLUSH WITH THE EXISTING ASPHALT IF IT IS TO A NEAT WORK LINE.
- 25. ALL UTILITIES ARE BASED UPON SURFACE LOCATES AND OR RECORD MAPS. ENGINEER IS NOT RESPONSIBLE FOR INCONSISTENCIES DUE TO INACCURATE LOCATES OR RECORDS. ENGINEER RECOMMENDS ALL UTILITIES BE POTHOLED AND FIELD SURVEYED TO VERIFY THIS INFORMATION.
- 26. CONTRACTOR SHALL COORDINATE ALL DRY UTILITIES SERVICE AND RELOCATIONS WITH THE PROVIDERS.
- 27. CONTRACTOR SHALL COORDINATE RIMS OF ALL MANHOLES AND SURFACE STRUCTURES WITH ANY CHANGE IN GRADE. CONTRACTOR SHALL INCLUDE COST TO LOWER OR RAISE ALL RIMS AS NEEDED FOR NEW GRADES.
- 28. ALL SANITARY SEWER CLEAN OUTS (C.O.) TO BE 2-WAY AND HAVE HS-25 RATED COVERS.
- 29. ALL WATER INSTALLATION SHALL COMPLY WITH APPROVED PLANS.
- 30. ALL SANITARY SEWER FITTINGS SHALL BE AS MANUFACTURED AND FURNISHED BY THE PIPE SUPPLIER OR APPROVED EQUAL AND HAVE BELL AND / OR SPIGOT CONFIGURATIONS COMPATIBLE WITH
- 31. 4" SANITARY SEWER SERVICE SHALL HAVE A MINIMUM SLOPE OF 2.0% (1/2" PER FOOT). 6" SANITARY SEWER SERVICES SHALL HAVE A MINIMUM SLOPE OF 1.0% (1/4" PER FOOT).
- 32. CONTRACTOR TO VERIFY EXISTING SEWER SERVICE DEPTH AND SIZE BEFORE STARTING ANY WORK. NOTIFY ENGINEER IF ANY MODIFICATIONS NEED TO BE MADE. ALL CONNECTIONS TO EXISTING SEWER LINES SHALL BE CONFIRMED.
- 33. WATER LINES, METERS, TAPS AND FIRE HYDRANTS MUST BE IN CONFORMANCE WITH THE APPROPRIATE GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS OR SUPPLEMENTARY STANDARDS AND SPECIFICATIONS.
- 34. ALL SANITARY SEWER IMPROVEMENTS MUST BE IN CONFORMANCE WITH THE APPROPRIATE GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS OR SUPPLEMENTARY STANDARDS AND SPECIFICATIONS.
- PROVIDER PRIOR TO CONSTRUCTION.

35. DRY UTILITY IMPROVEMENTS SHALL BE COORDINATED WITH THE

36. CONTRACTOR IS RESPONSIBLE FOR COORDINATION, COMPLETION AND SUBMITTAL OF ALL DRY UTILITY (GAS. ELECTRIC. PHONE. CABLE, AND OTHER) APPLICATIONS.

A DIVISION OF HABERER CARPENTRY INC. 621 SOUTHPARK DR SUITE 1600 LITTLETON CO, 80120 PHONE: (303) 979-3900 INFO@HABERERGROUP.COM



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ELEY - DEN TRUCTION D SPR2024-(1911 59th AV SREELEY, CC GR ON ON

REVISIONS: No. Date: Description: 08.05.24 | Submittal #1 10.29.24 | Submittal #2 12.13.24 | Submittal #3 01.17.25 | Submittal #4 02.07.25 Submittal #5 02.28.25 FINAL

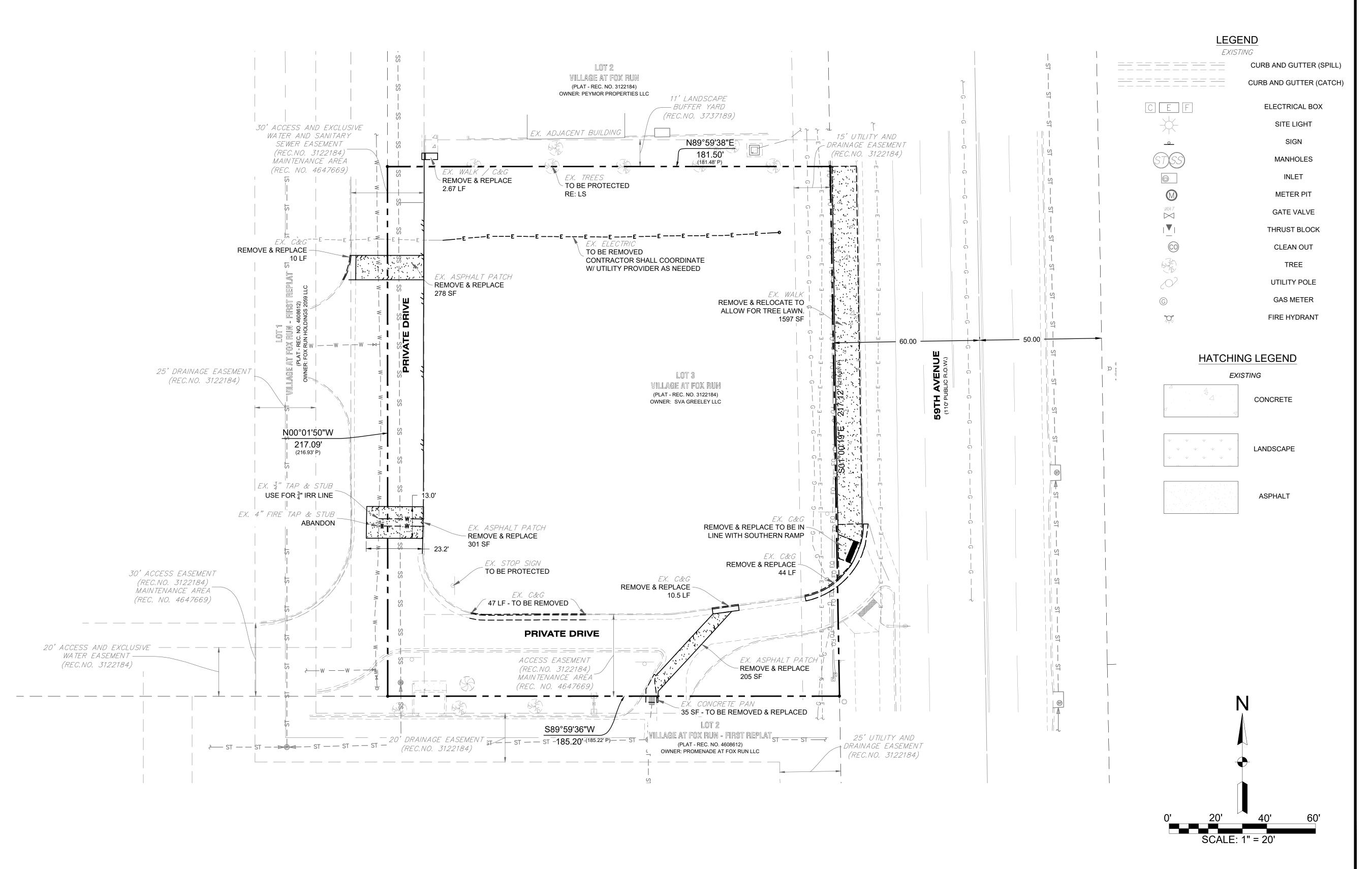
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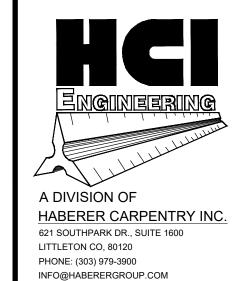
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HCI NOTES

SVA GREELEY - DENTAL BUILDING CONSTRUCTION DOCUMENTS

LOT 3, THE VILLAGE AT FOX RUN,
CITY OF GREELEY, COUNTY OF WELD, STATE OF COLORADO
(1911 59th AVENUE)







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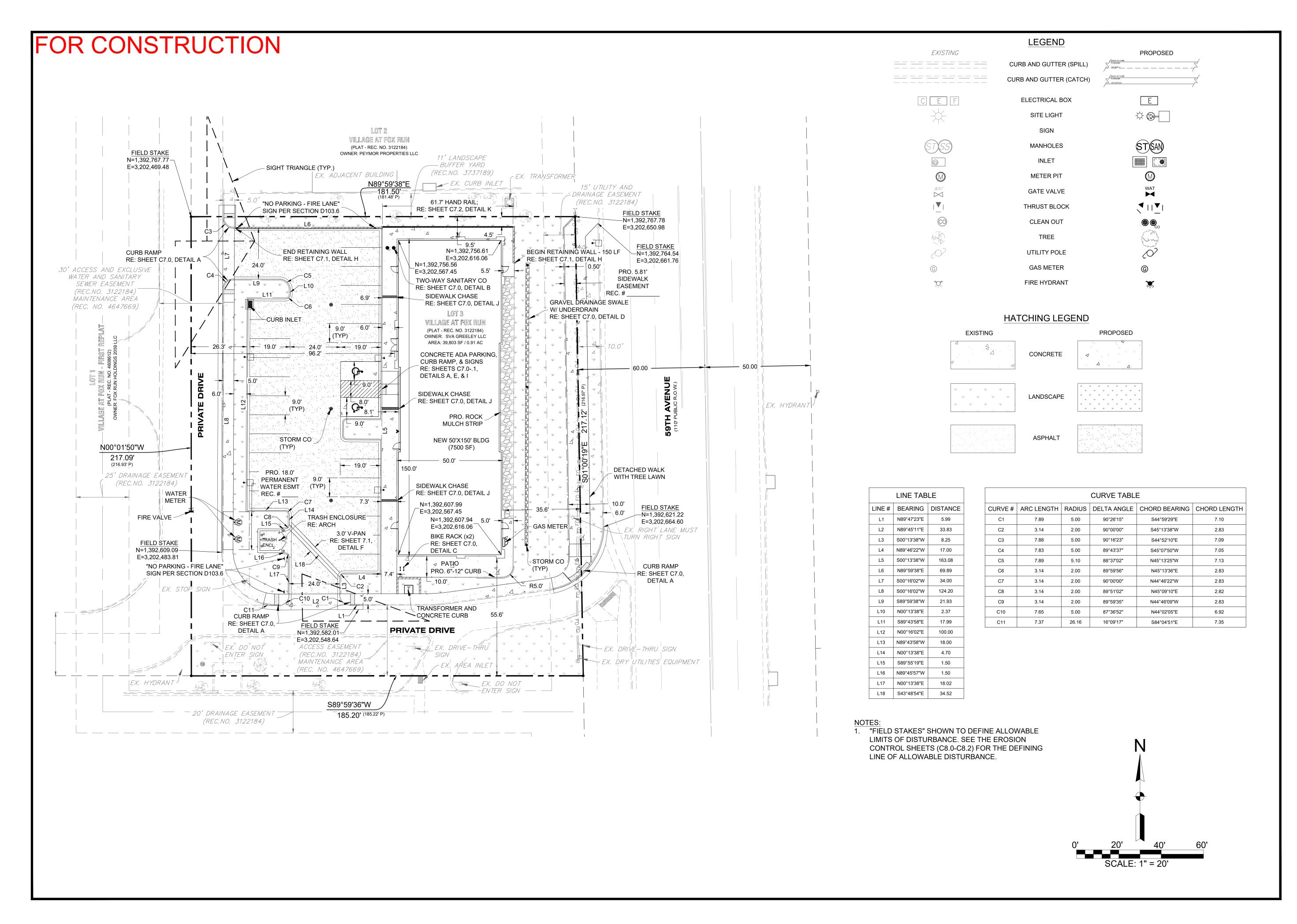
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1911 59th AVENUE
GREELEY, CO 80634

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A DIVISION OF

HABERER CARPENTRY INC.

621 SOUTHPARK DR., SUITE 1600

LITTLETON CO, 80120

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INFO@HABERERGROUP.COM



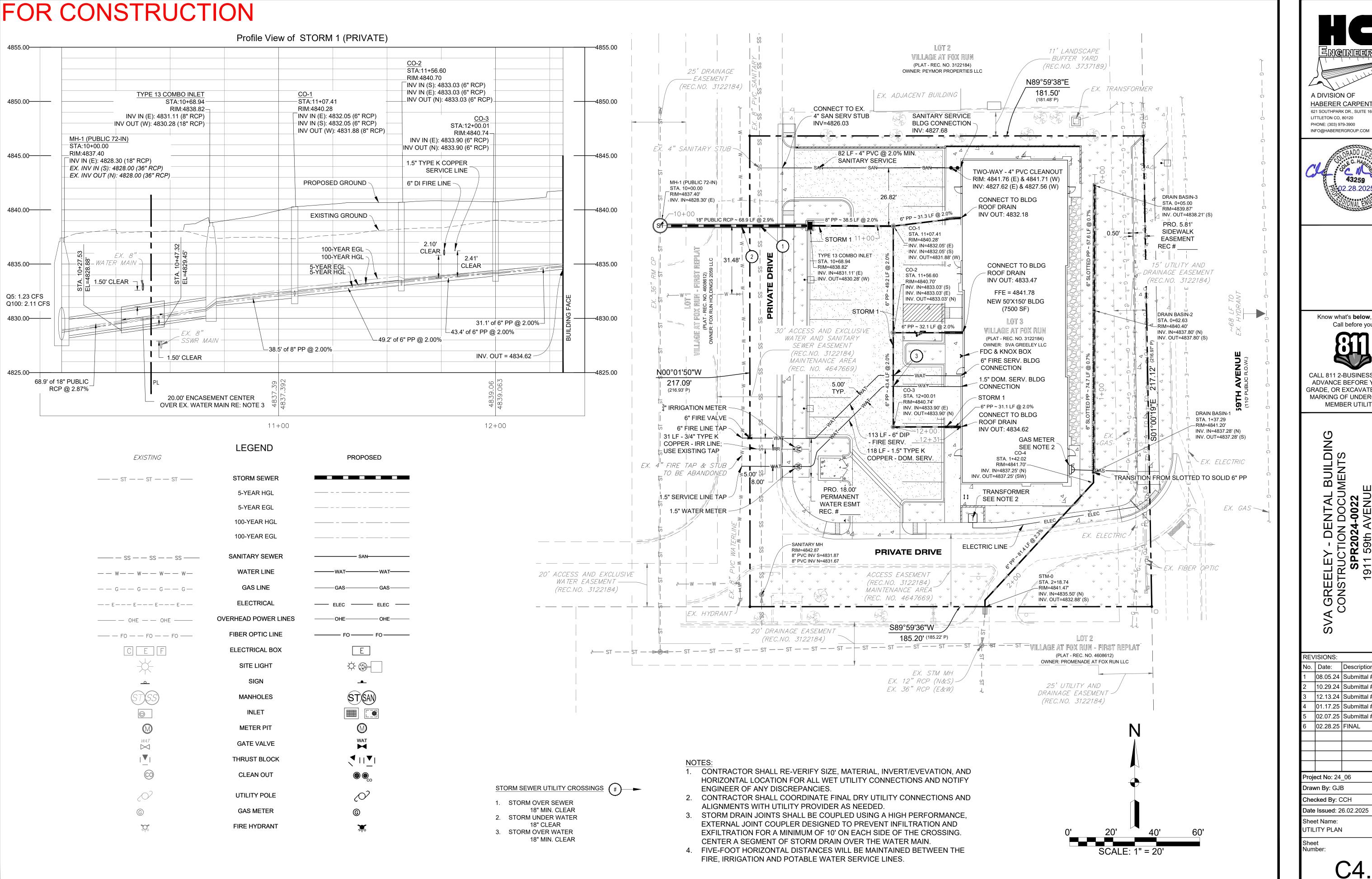
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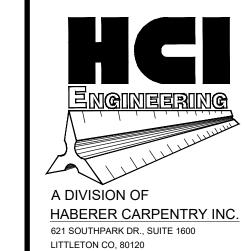
CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

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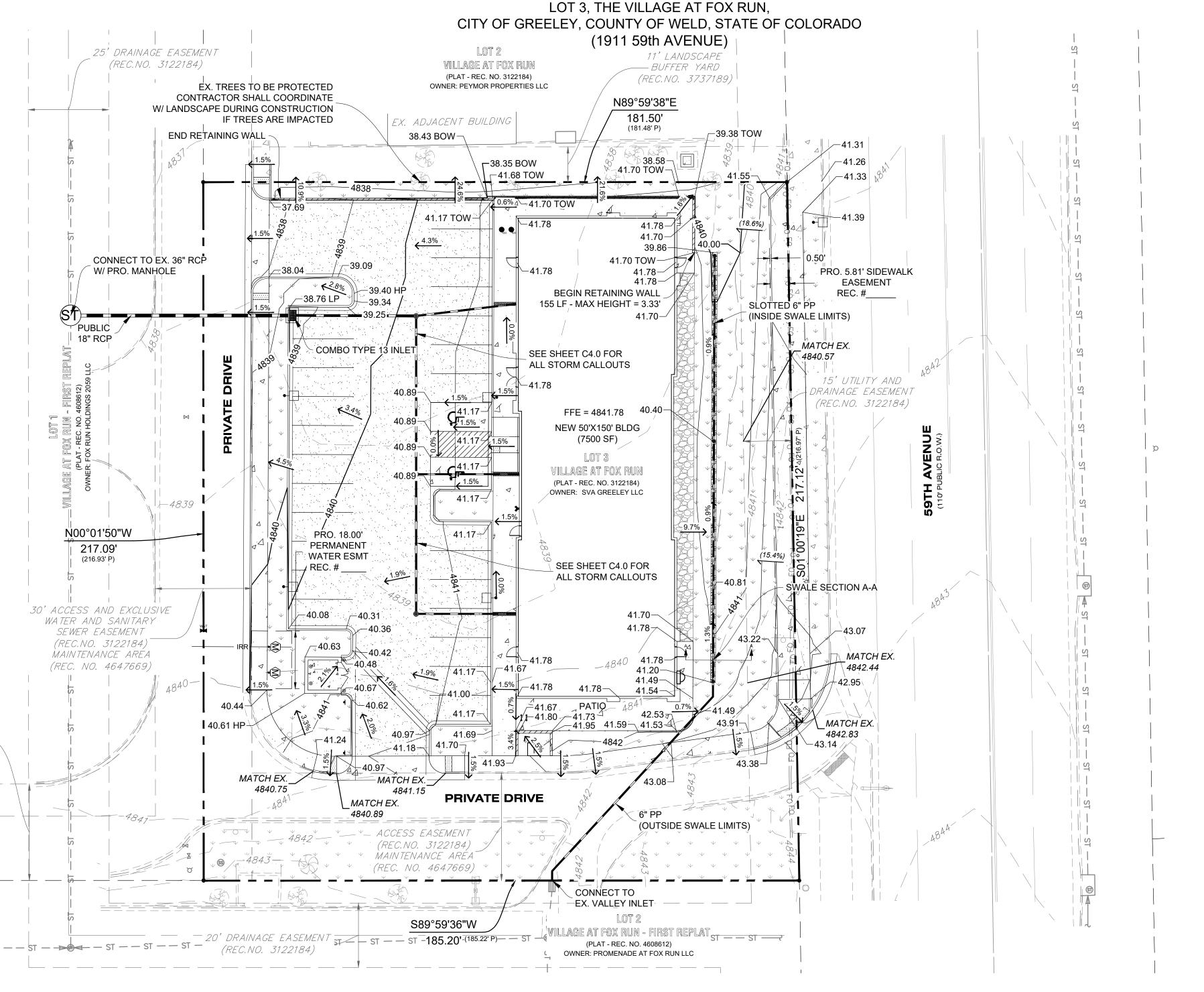
MEMBER UTILITIES.

TAL BUILDING OCUMENTS 022 ENUE 80634 SEELEY - DE ISTRUCTION SPR2024 1911 59th A GREELEY, (GR.

	S		s\2024\24 06 - Greeley Ortho\CAD\Plans\CDs\24 06 CD
V	ISIONS:		s\24
	Date:	Description:	2
	08.05.24	Submittal #1	lans
	10.29.24	Submittal #2	
	12.13.24	Submittal #3	ζ
	01.17.25	Submittal #4	rtho
	02.07.25	Submittal #5	Ō
	02.28.25	FINAL	ele
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je	ect No: 24	_06	s\20

Drawn By: GJB Checked By: CCH Date Issued: 26.02.2025 Sheet Name: UTILITY PLAN

SVA GREELEY - DENTAL BUILDING CONSTRUCTION DOCUMENTS



GRADING LEGEND

MAJOR CONTOUR

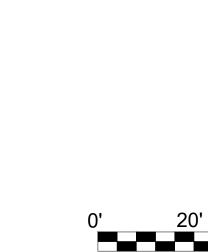
MINOR CONTOUR

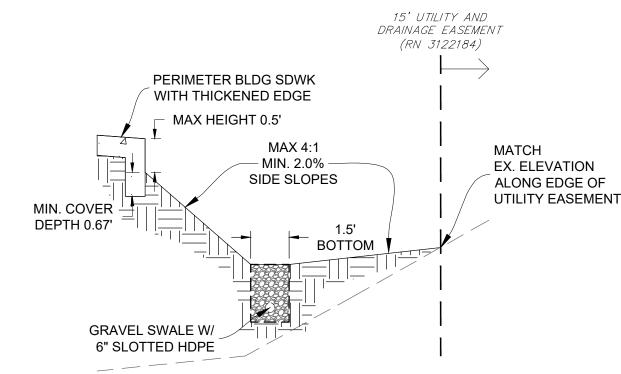
SPOT ELEVATION

XXX

(XXX)

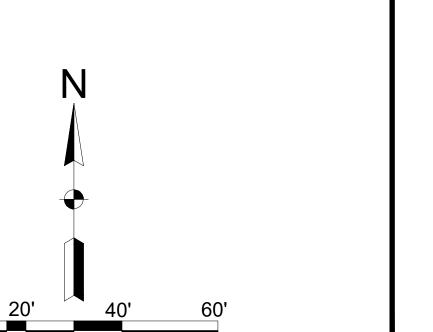
— — *5420-* — — —





TYPICAL SWALE SECTION A-A: (N.T.S.)

1. DETAIL CONTAINS VERTICAL EXAGGERATION 2. GRAVEL TO BE WASHED 0.75" - 1.50" WASHED CRUSHED GRANITE 3. LINE TRENCH WITH PERMEABLE GEOTEXTILE.



A DIVISION OF HABERER CARPENTRY INC. 621 SOUTHPARK DR., SUITE 1600 LITTLETON CO, 80120

PHONE: (303) 979-3900



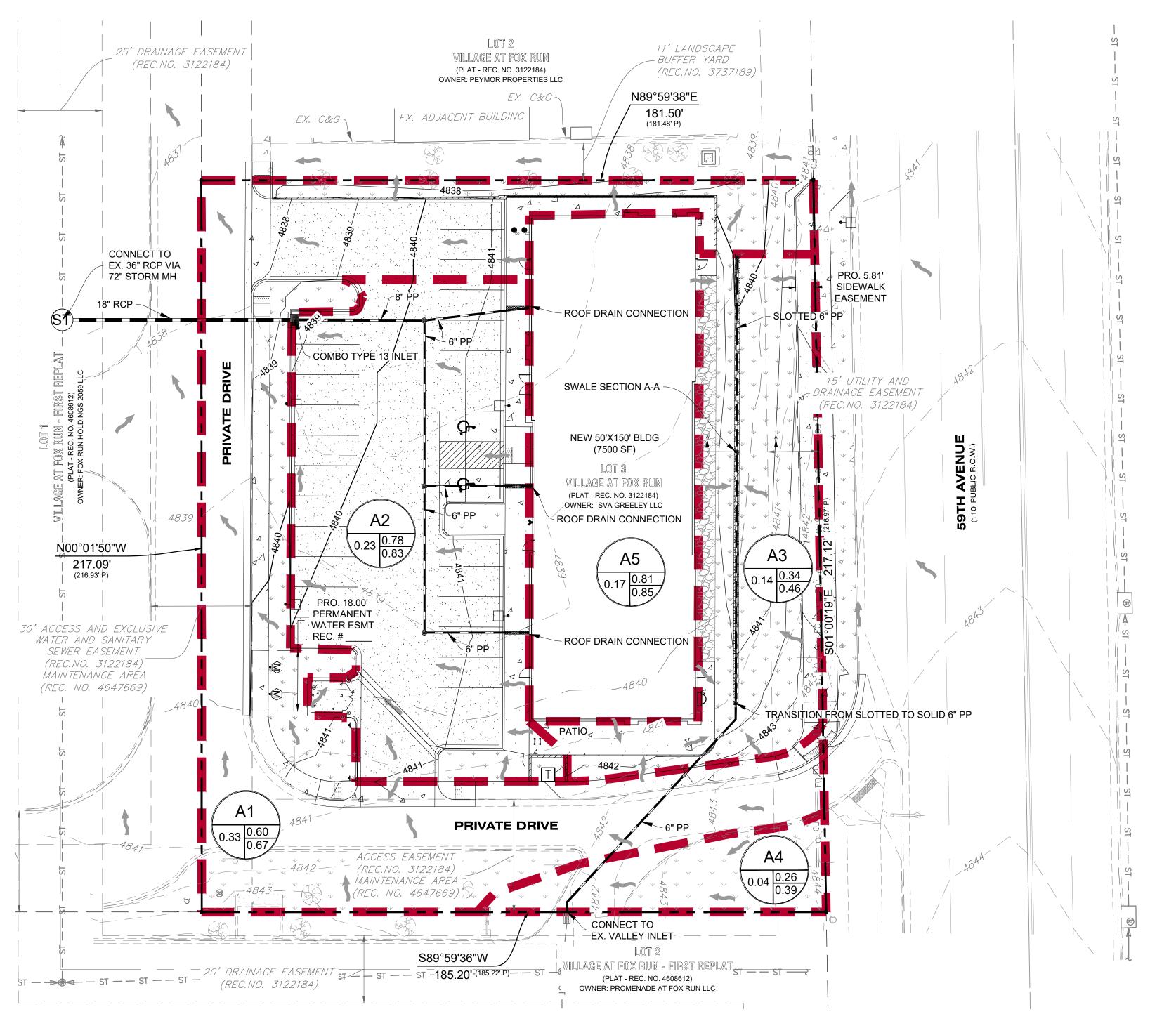
Know what's below

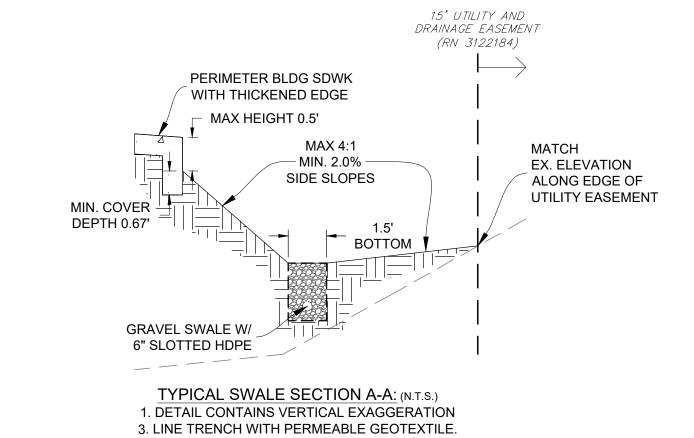


CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

	S						
ΕV	ISIONS:						
ο.	Date:	Description:					
	08.05.24	Submittal #1					
	10.29.24	Submittal #2					
	12.13.24	Submittal #3					
	01.17.25	Submittal #4					
	02.07.25	Submittal #5					
	02.28.25	FINAL					
oje	ect No: 24	_06					
rav	vn By: GJE	3					
hed	necked By: CCH						
ate	ate Issued: 28.02.2025						
	et Name:						

GRADING PLAN



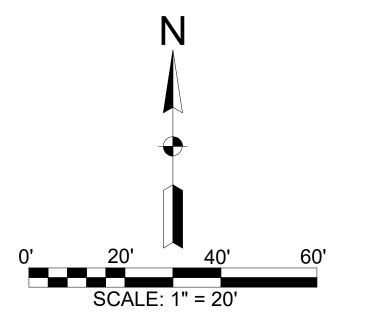


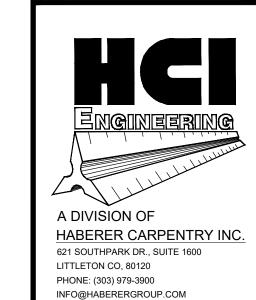
GRADING LEGEND PROPERTY LINE MAJOR CONTOUR — — *5420-* — — — MINOR CONTOUR DRAINAGE LEGEND DRAINAGE BASIN

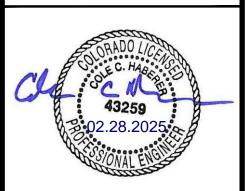
BASIN ID B3-6 FLOW ARROW

BASIN BOUNDARY

DIRECT RUNOFF SUMMARY									
Area	Area	% Imp.	Time of	Runoff Coefficient Direct Basin Runoff					
Design	(Acres)		Concentration	C5 C100		Q5 (cfs)	Q100 (cfs)		
A1	0.33	72.3%	5.00	0.60	0.67	1.02	1.51		
A2	0.23	91.8%	5.00	0.78	0.83	0.72	0.76		
A3	0.14	44.6%	5.00	0.34	0.46	0.19	0.25		
A4	0.04	36.3%	8.66	0.26	0.39	0.04	0.05		
A5	0.17	95.0%	5.00	0.81	0.85	0.52	1.34		
Аэ	0.17	95.0%	5.00	0.81	0.85	0.52	1.34		







Know what's below, Call before you dig.

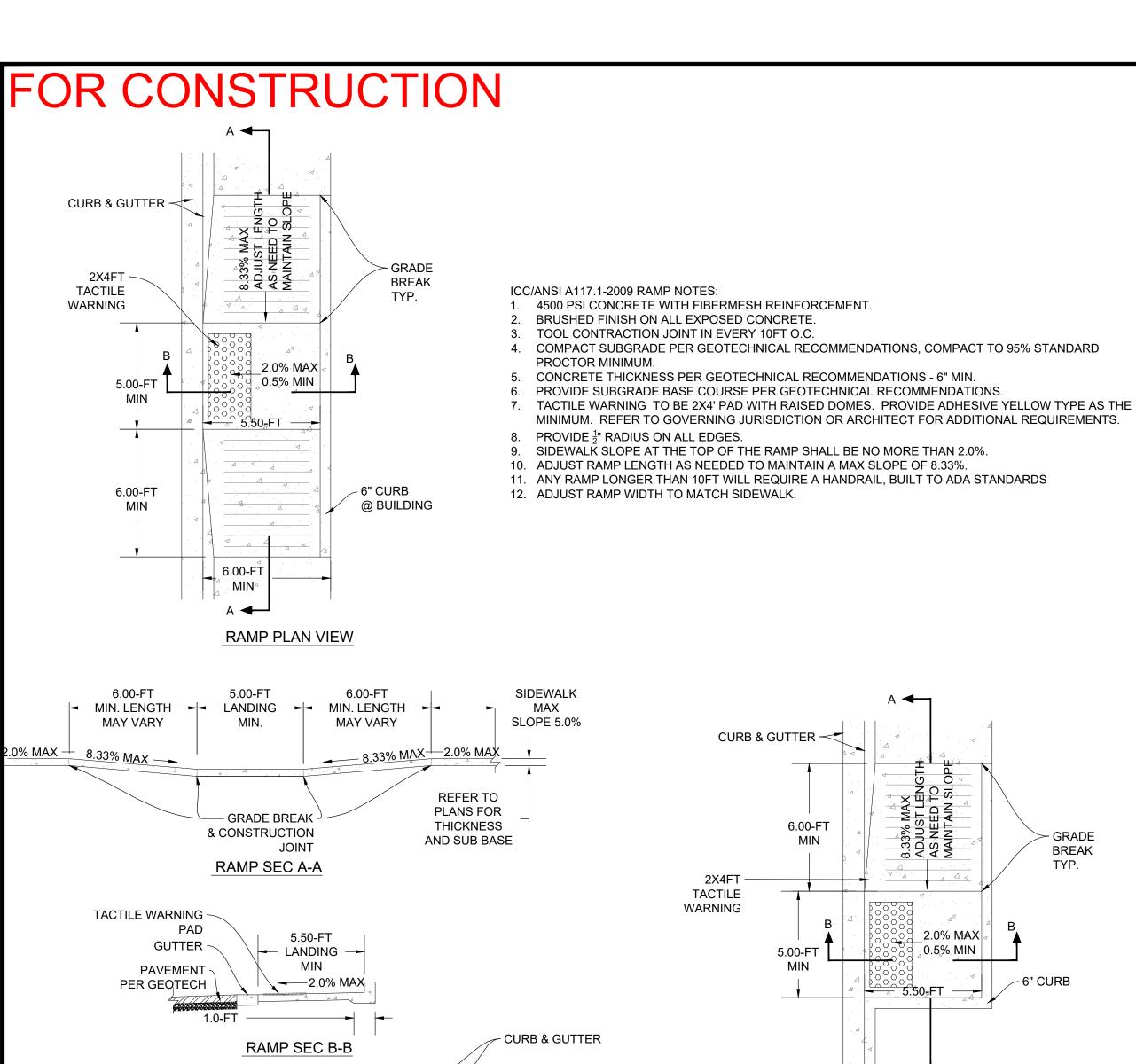
CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

TAL BUILDING OCUMENTS 022 ENUE 80634

SVA GREELEY - DENTA CONSTRUCTION DOC SPR2024-002 1911 59th AVEN GREELEY, CO 8(

	S							
REV	ISIONS:							
No.	Date:	Description:						
1	08.05.24	Submittal #1						
2	10.29.24	Submittal #2						
3	12.13.24	Submittal #3						
4	01.17.25	Submittal #4						
5	02.07.25	Submittal #5						
6	02.28.25	FINAL						
Proje	ect No: 24	_06						
Draw	vn By: GJE	3						
Checked By: CCH								
Date Issued: 26.02.2025								
Shee	Sheet Name:							

DRAINAGE PLAN Sheet Number:

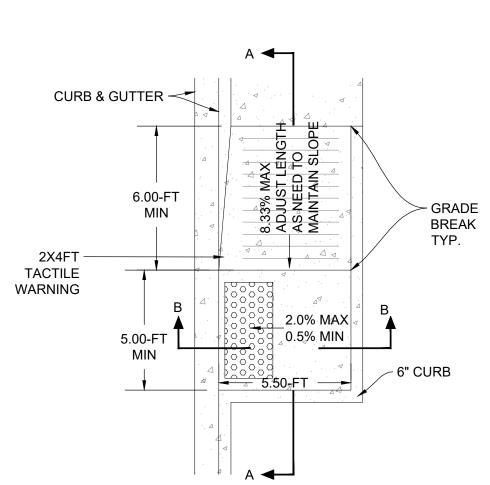


2.00-FT

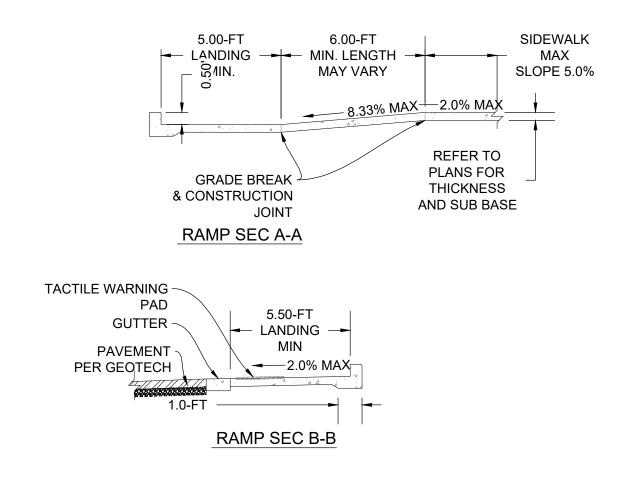
TACTILE WARNING

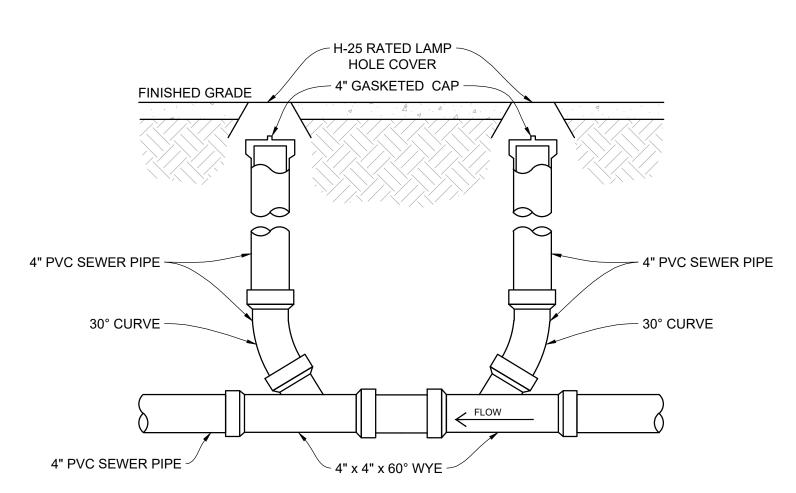
AREA @ 2.0%

SIDEWALK



RAMP PLAN VIEW



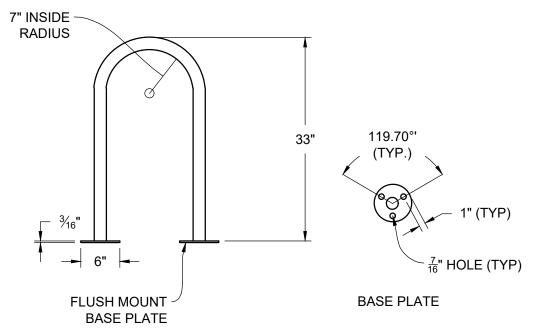


NOTES:

- 1. CLEANOUT SHALL BE CONSTRUCTED SO THAT SURFACE LOAD WILL NOT BE TRANSFERRED TO MAIN. 2. SERVICE LINE CLEANOUT MAY BE INSTALLED APPROXIMATELY 5 FEET OUTSIDE THE BUILDING
- 3. A CLEANOUT IS REQUIRED ON ALL SERVICE LINES EVERY 100 FEET, AT EVERY 'Y' OR AFTER A COMBINED TOTAL OF 145° OF BEND.
- 4. USE PRE-FABRICATED WYE FITTINGS TO CONSTRUCT CLEANOUT ASSEMBLIES

TWO-WAY SEWER C.O.

Scale: N.T.S.



NOTES:

DIMENSIONS:

1. HEIGHT - 33" FROM THE GROUND. 2. CONTINUOUS BEND INSIDE RADIUS = 7".

MATERIALS AND CONSTRUCTION:

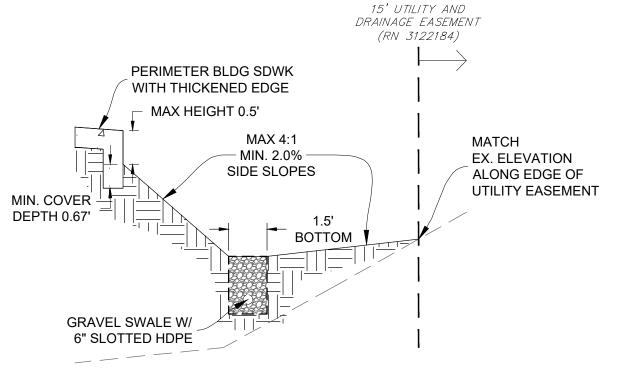
- 1. MINIMUM OR 1 1/4" SCHEDULE 40 STEEL PIPE (1 5/8" OUTSIDE
- MAXIMUM 1 $\frac{1}{2}$ " SCHEDULE 40 STEEL PIPE (2" OUTSIDE DIAMETER). SOLID ONE-PIECE CONSTRUCTION; CONTINUOUS BEND; LEGS 14" -
- 4. GALVANIZED WITH BLACK POWDER COAT FINISH.
- 5. FLUSH MOUNTED WITH WELDED BASE PLATES (6" DIAMETER, 3/16" THICK BASE PLATE). HIDDEN OR VANDAL-RESISTANT FASTENERS (SCREWS OR EXPANSION BOLTS).

Scale: N.T.S.



18" APART.

Scale: N.T.S.



TYPICAL SWALE SECTION A-A: (N.T.S.) 1. DETAIL CONTAINS VERTICAL EXAGGERATION 3. LINE TRENCH WITH PERMEABLE GEOTEXTILE.

GRAVEL SWALE W/ UNDERDRAIN

A DIVISION OF HABERER CARPENTRY INC. 621 SOUTHPARK DR., SUITE 1600 LITTLETON CO, 80120 PHONE: (303) 979-3900 INFO@HABERERGROUP.COM

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

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

TAL BUILDING OCUMENTS 022 ENUE 80634 SVA GREELEY - DENTA CONSTRUCTION DOC SPR2024-002 1911 59th AVEN GREELEY, CO 80

REVISIONS: No. | Date: | Description: 08.05.24 | Submittal #1 10.29.24 | Submittal #2 12.13.24 | Submittal #3 01.17.25 | Submittal #4 02.07.25 Submittal #5 02.28.25 FINAL

Project No: 24_06

Drawn By: GJB Checked By: CCH Date Issued: 26.02.2025

Sheet Name: SITE DETAILS (1)

Number:

2.00-FT

2X4-FT TACTILE -

COA STANDARDS

RAMP PLAN VIEW

TACTILE WARNING

RAMP

PAD 6.00-FT

RAMP SEC A-A

CONFORM TO

WARNING

TAPER -

1FT O.C.

CURB DOWN OVER 6"

MATCH EXISTING WALK ~

6.00-FT

WALK

TOOLED JOINTS

AT THIS LINE 4

GRADE -

BREAK TYP.

6.00-FT

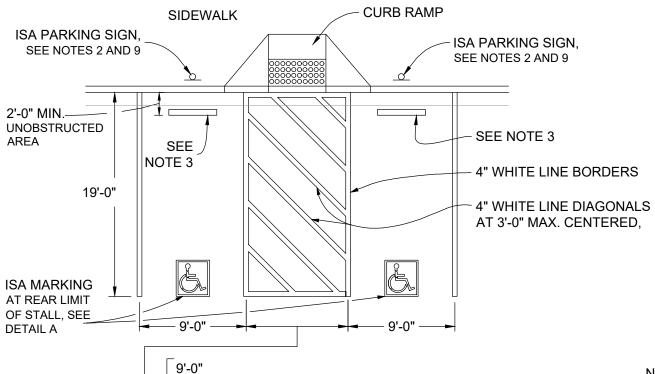
MIN. @ 8.33% LENGTH

MAY VARY

PAVEMENT

PER GEOTECH

FOR CONSTRUCTION - CURB RAMP SIDEWALK ISA PARKING SIGN, SEE NOTES 2 AND 9 2'-0" MIN.—— UNOBSTRUCTED AREA SEE NOTE 3





SIGN R7-8

(NO ARROWS)

ACCESSIBLE

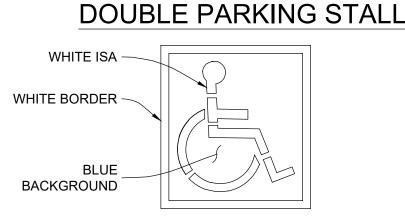
Scale: N.T.S.

VAN ACCESSIBLE PARKING STALL, SEE NOTES 2 AND 9

5'-0" Min BETWEEN REGULAR

ACCESSIBLE PARKING STALLS

8'-0" Min TO THE RIGHT OF EACH



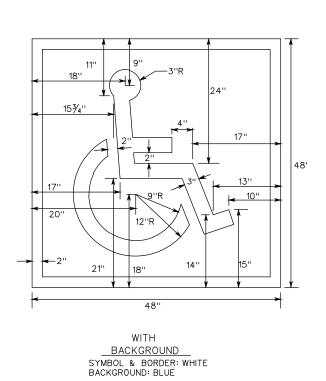
ISA MARKING **TABLE A**

TOTAL NUMBER OF PARKING SPACES	MINIMUM NUMBER OF REQUIRED
PROVIDED IN PARKING FACILITY	ACCESSIBLE PARKING SPACES
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2% OF TOTAL
1001 AND OVER	20 PLUS 1 FOR EACH 100 OR FRACTION THEREOF OVER 1000

SIGN R7-8b See Notes 2 and 6 MINIMUM FINE \$250

LAQUE R7-8P

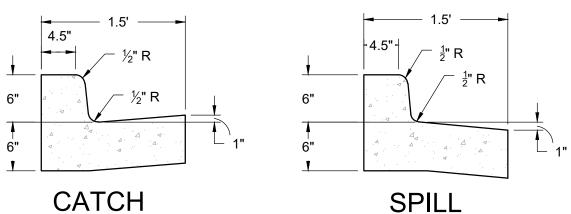
A.D.A. RAMP AND PARKING DETAILS



- ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.
- ONE IN EVERY SIX ACCESSIBLE OFF-STREET PARKING STALLS, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESSIBLE AISLE OF 8'-0" MINIMUM WIDTH AND SHALL BE SIGNED VAN ACCESSIBLE. THE R7-8B SIGN SHALL BE MOUNTED BELOW THE R7-8P PLAQUE OR THE
- IN EACH PARKING STALL, A CURB OR PARKING BUMPER SHALL BE PROVIDED IF REQUIRED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED WIDTH OF WALKWAYS. PARKING STALLS SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED VEHICLES OTHER THAN THEIR OWN.
- 4. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH
- SURFACE SLOPES NOT EXCEEDING 2.0% IN ALL DIRECTIONS. TABLE A SHALL BE USED TO DETERMINE THE REQUIRED NUMBER OF ACCESSIBLE PARKING STALLS IN EACH PARKING LOT OR GARAGE.
- WHERE PLAQUE R7-8P, SIGN R7-8 OR SIGN R7-8b ARE INSTALLED, THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING SURFACE. WHERE A SINGLE (NON-VAN) ACCESSIBLE PARKING SPACE IS
- PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE. 8. WHERE A VAN ACCESSIBLE PARKING SPACE IS PROVIDED, THE
- LOADING AND UNLOADING ACCESS AISLE SHALL BE 8'-0" WIDE MINIMUM, AND SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
- 9. ACCESSIBLE PARKING ONLY SIGN SHALL BE SIGN R7-8 WITH PLAQUE

LEGEND: ISA = International Symbol of Accessibility

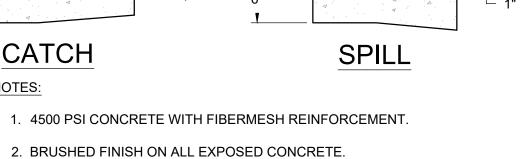
Scale: N.T.S.



- #4 BARS EVENLY SPACED (12" O.C MAX) 1. ALL CONCRETE TO BE 4500 PSI. 2. SUBGRADE TO BE COMPACTED PER GEOTECH.
- 3. PROVIDE CONTRACTION JOINT 10FT MAX
- 4. 3/4":18" DEPRESSION FROM LIP TO FL. 5. 6" OF CLASS 6 BASE PER GEOTECH REPORT

CONCRETE V-PAN

PRIVATE CURB & GUTTER



Scale: N.T.S.



TENSAR STRUCTURAL

1/2"-3/4" CRUSHED STONE

THICKNESS, 95% STANDARD

── 12" **──**

RESERVE

PARKING

VAN accessible

POST

SECTION OF POST

(14 GAUGE)

SIGN R7-8

(NO ARROWS)

SIGN R7-8b

ROUNDED CONC. CAP

W/ EMBEDDED POST

BOLLARD -

OR GRAVEL (6" MINIMUM

PROCTOR DENSITY)

GEOGRID

BLOCK WALL SECTION

TYPICAL SIDEWALK CHASE

DETAIL VIEW 1

COLOR: TERRA COTTA

STRUCTURAL DESIGN NOTE:

MESA CAP UNIT

MESA UNIT

6" ± -√

GRAVEL LEVELING PAD DETAIL

ROUND FOOTING

SQUARE FOOTING

PLAN VIEW

1. CONCRETE SHALL BE 4500 PSI MIN.

4. REFER TO SITE PLAN FOR BOLLARD

GALVANIZED STEEL PIPE PAINTED

OSHA YELLOW AND FILLED WITH

6. USE SIGN POST BOLLARD FOR ANY

SIGNAGE ALONG HEAD IN.

SIGN POST BOLLARD

GEOTECH REPORT.

LOCATION AND SIZE 5. BOLLARD SHALL BE SCH. 40

3. BOLLARD TYPE:

TYPICAL BOLLARD W/ A.D.A. MOUNTED SIGN DETAIL

2. SUBGRADE SHALL BE PREPARED PER

18" DIA.

4 A

1'-6"

7'-0" MIN.

3'-0"

12.8

6" (MIN.)

1. WALL DETAIL IS PROVIDED FOR REFERENCE ONLY. FINAL WALL DESIGN INCLUDING WALL DRAINAGE SHALL BE COMPLETED BY STRUCTURAL ENGINEER.

- 12" MIN.

GEOGRID

FOUNDATION

GEOGRID EMBEDMENT LENGTH

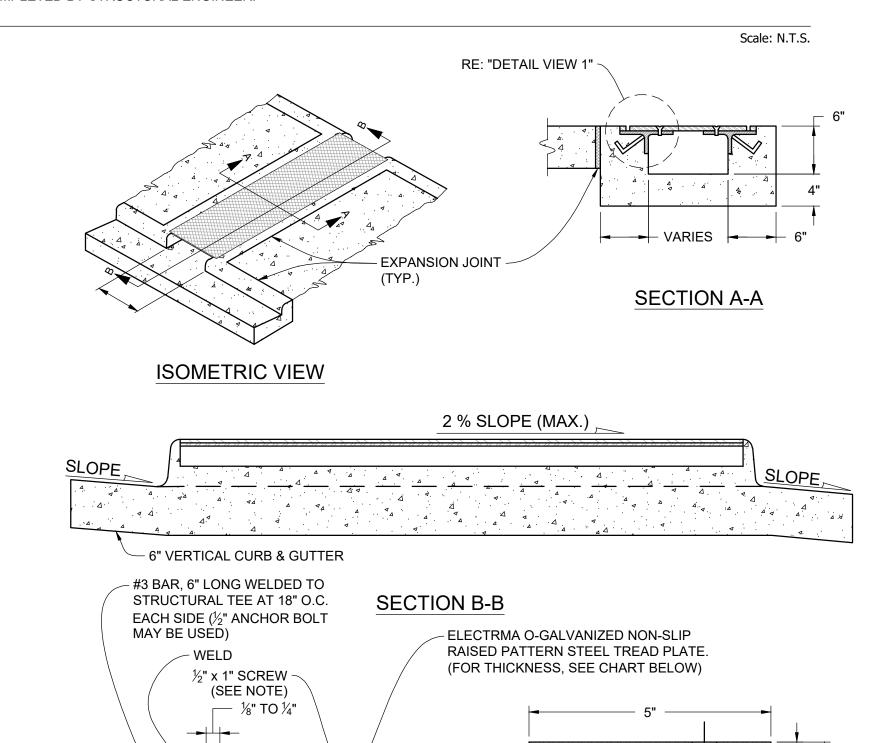
TYPICAL TIERED CROSS-SECTION

NOT TO SCALE

DRAINAGE FILL

[∠]REINFORCED

TENSAR STRUCTURAL



DRILLED AND THREADED TO ACCEPT SCREW, 2' O.C

STARHEAD SCREW: BRASS OR

ELECTRO-GALVANIZED FINISH (RECESS HEAD).

STRUCTURAL TEE WT

2.5 x 8 (SEE RIGHT)

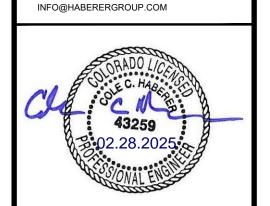
WIDTH OF | THREAD PLATE **THICKNESS** OPENING 6" - 12" 12" - 18"

Scale: N.T.S.

SITE DETAILS (2)

A DIVISION OF HABERER CARPENTRY INC. 621 SOUTHPARK DR., SUITE 1600 LITTLETON CO, 80120

PHONE: (303) 979-3900



Know what's **below**.



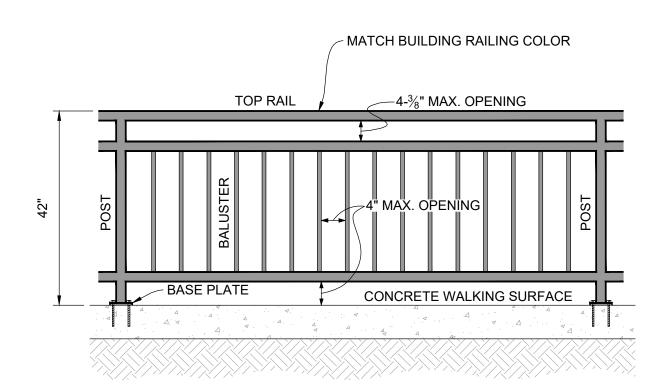
CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

TAL BUILDING OCUMENTS **322** ENUE 80634

SVA GREELEY - DENTA CONSTRUCTION DOC SPR2024-002; 1911 59th AVEN GREELEY, CO 8(

REVISIONS: 08.05.24 | Submittal #1 10.29.24 | Submittal #2 12.13.24 | Submittal #3 01.17.25 | Submittal #4 02.07.25 | Submittal #5 02.28.25 FINAL Project No: 24_06

Drawn By: GJB Checked By: CCH Date Issued: 26.02.2025 Sheet Name:



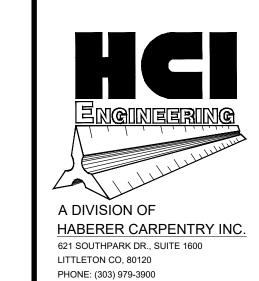
INTERNATIONAL BUILDING CODE (IBC)

STRENGTH REQUIREMENTS:

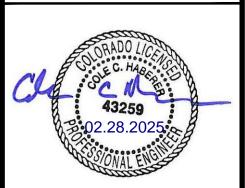
 50 LBS/ LINEAR FEET 200 LBS CONCENTRATED

42" BOLT-DOWN RAILING DETAIL (IBC)

Scale: N.T.S.



INFO@HABERERGROUP.COM



Know what's below,



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

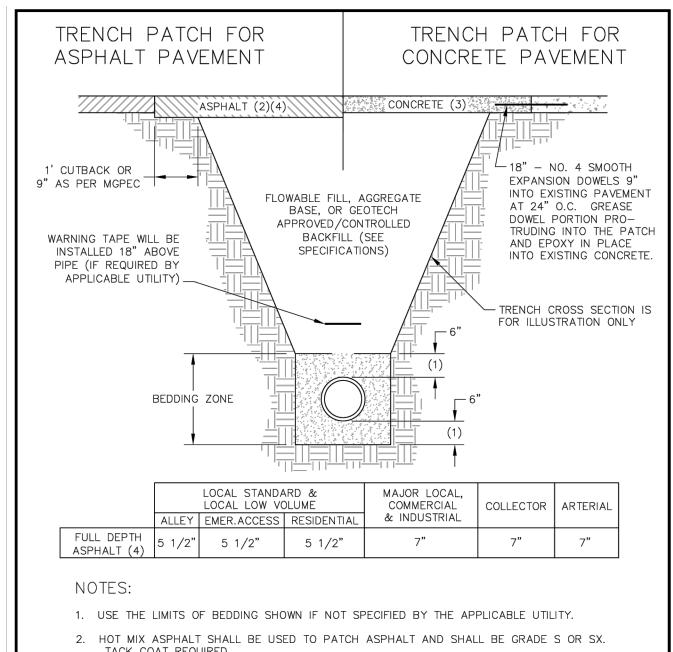
SVA GREELEY - DENTAL BUILDING CONSTRUCTION DOCUMENTS SPR2024-0022 1911 59th AVENUE GREELEY, CO 80634

REVISIONS: 1 08.05.24 Submittal #1 2 10.29.24 Submittal #2 3 12.13.24 Submittal #3 01.17.25 Submittal #4 02.07.25 Submittal #5 02.28.25 FINAL

Project No: 24_06 Checked By: CCH

Date Issued: 26.02.2025

SITE DETAILS (3) Sheet Number:



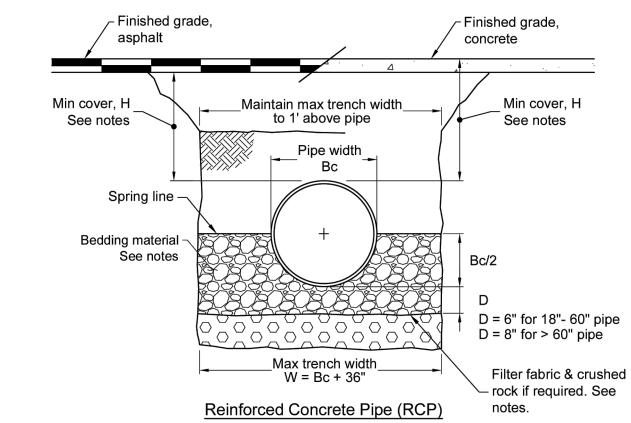
- TACK COAT REQUIRED.
- 3. CONCRETE SHALL BE USED TO PATCH CONCRETE. MATCH EXISTING THICKNESS.
- 4. FULL DEPTH ASPHALT SHALL BE THICKNESSES AS SHOWN ABOVE OR ONE (1) INCH GREATER THAN THE EXISTING PAVEMENT THICKNESS, WHICHEVER IS GREATER.
- 5. PATCH MAY NOT END WITHIN THE WHEEL TRACK OF TRAVEL LANES. UP TO THREE (3) FEET OF ADDITIONAL ASPHALT PATCH WILL BE REQUIRED TO KEEP THE JOINT OUT OF THE WHEEL TRACK.
- 6. MINIMUM SIZE OF PATCH SHALL BE 3' X 3'.



EXISTING STREET PAVEMENT PATCH DETAIL FOR ASPHALT & CONCRETE DETAIL NO. S-31

DATE: JULY, 2015 SCALE: N.T.S

Page 175



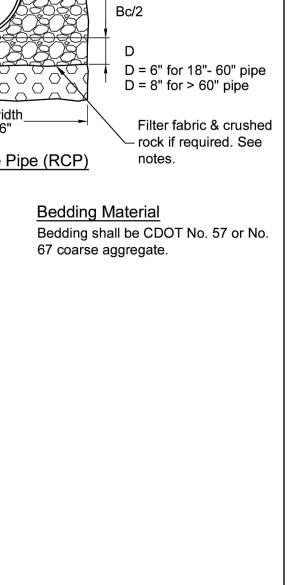
- 1. Trench backfill above bedding material shall be per Detail No. S-30 in the City of Greeley Design Criteria Construction Specifications Manual Volume 1 - Streets.
- 2. Minimum cover over pipe, H, shall be 1'-0" measured
- from bottom of asphalt or top of concrete pavement.
- 3. Consolidate the bedding w/ shovel slicing & tamping. 4. Backfill the pipe with bedding to the spring line.
- 5. Consolidate the bedding w/ shovel slicing & tamping evenly on both sides of pipe.
- 6. Place a 12" min layer of 1-1/2" to 3" crushed rock, or as required to provide a stable subgrade if groundwater is encountered or if required by the Engineer. Place Class 1 non-woven filter fabric over the crushed rock foundation before placing bedding.

City of Teeley

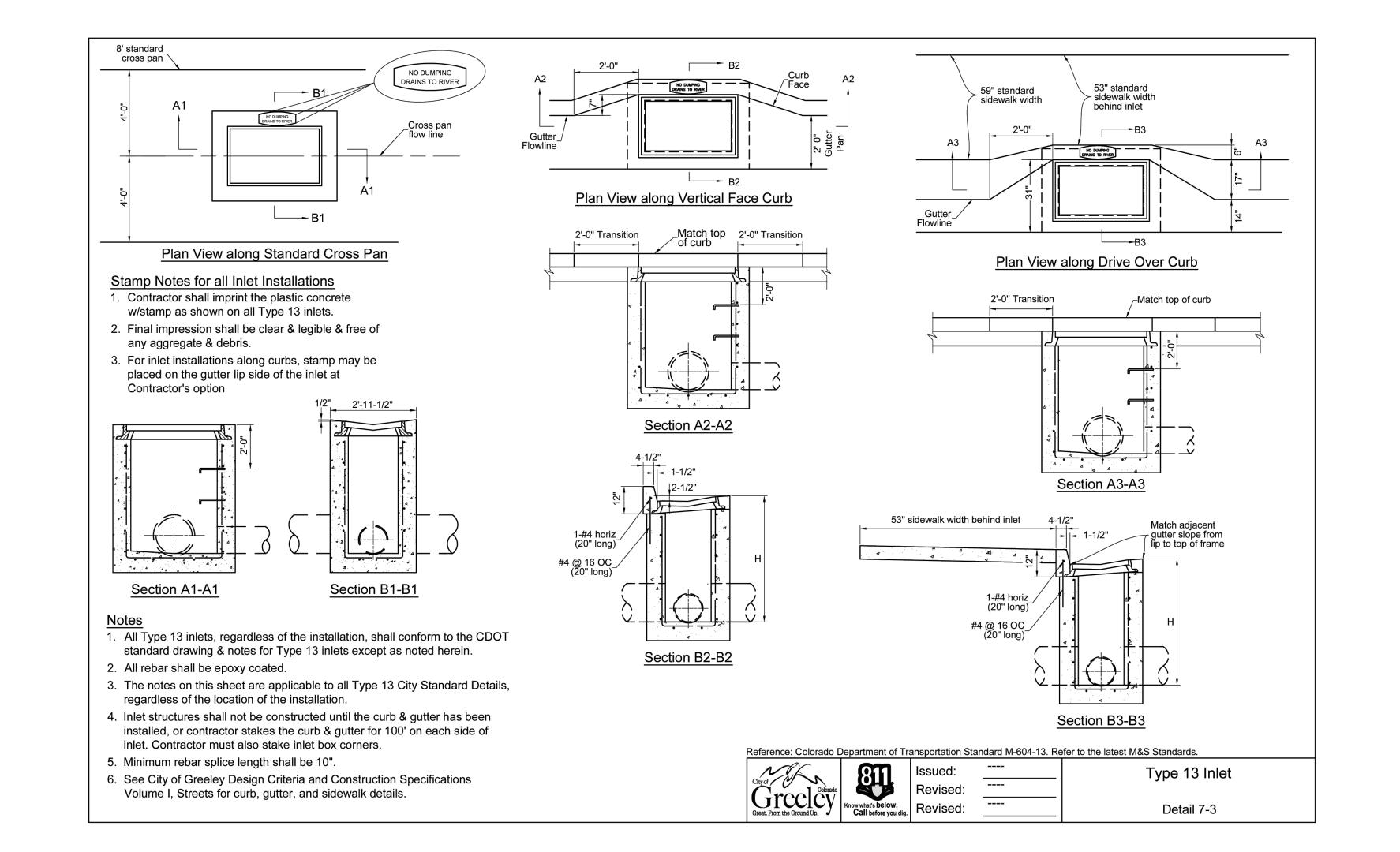
Creat. From the Ground Up.

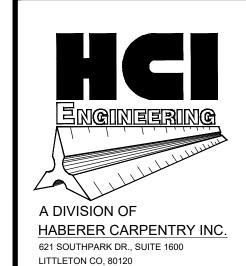
Call before you dig.

Issued:
Revised:
Revised:



Standard Storm Drain Bedding Reinforced Concrete Pipe (RCP) Detail 6-6A





PHONE: (303) 979-3900



Know what's **below**.



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

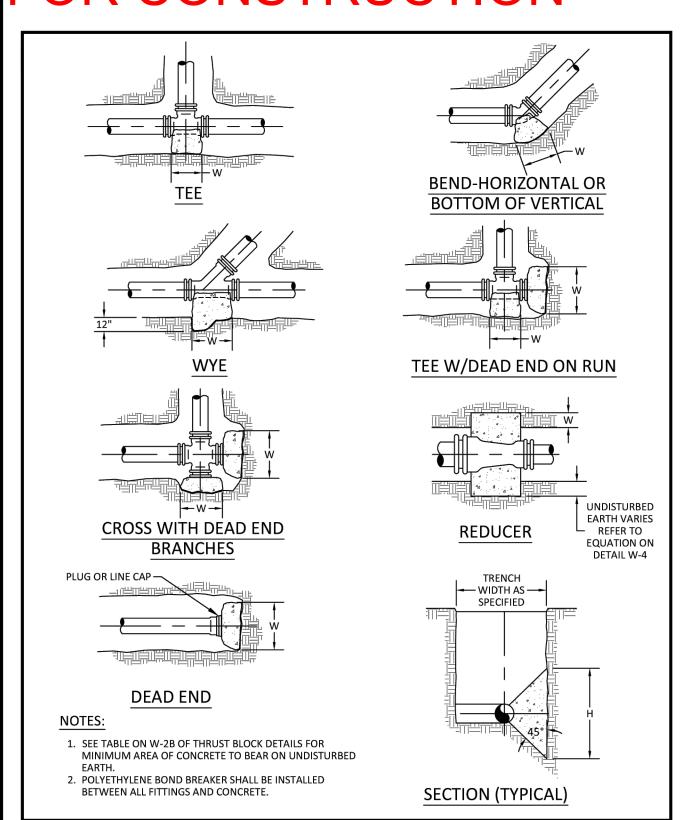
TAL BUILDING OCUMENTS 322 ENUE 80634 SVA GREELEY - DENTA CONSTRUCTION DOC SPR2024-002 1911 59th AVEN GREELEY, CO 80

REV	'ISIONS:	
No.	Date:	Description:
1	08.05.24	Submittal #1
2	10.29.24	Submittal #2
3	12.13.24	Submittal #3
4	01.17.25	Submittal #4
5	02.07.25	Submittal #5
6	02.28.25	FINAL

Project No: 24_06 Drawn By: GJB

Checked By: CCH Date Issued: 26.02.2025 Sheet Name:

PUBLIC DETAILS (1)



THRUST BLOCK BEARING AREAS (SQ-FT) FOR INTERNAL STATIC PRESSURE OF 150 PSI, DIP I.D., SOIL BEARING CAPACITY OF 1000 PSF AND 1.5 SAFETY FACTOR (S.F.)

PIPE SIZE 90° BEND		45° BEND	22½° BEND	11½° BEND	DEAD ENDS, VALVES & TEES, PLUGGED CROSS BRANCHES					
4"	3.3	2.5	1.3	0.6	3.3					
6"	10.2	5.5	2.8	1.4	7.2					
8"	18.3	9.9	5.0	2.5	12.9					
12"	39.9	21.6	11.0	5.5	28.2					
16"	70.5	38.2	19.5	9.8	49.9					
20"		CI	DECIAL DESIGN BEOLUBE	. D						
24"	SPECIAL DESIGN REQUIRED									

UNDISTURBED EARTH [FT²] = W [FT] X H [FT]

THRUST FORCE FOR REDUCERS [LB] =TEST PRESSURE [PSI] X (A_{LARGE} [IN²] - A_{SMALL} [IN²])

· GRAVITY BLOCK SIZE FOR REDUCERS [FT²] =0.225 X (A_{LARGE} [IN²] - A_{SMALL} [IN²])

1. POLYETHYLENE BOND BREAKER SHALL BE INSTALLED BETWEEN ALL FITTINGS AND CONCRETE. 2. ALL THRUST BLOCKING SHALL BE CAST-IN-PLACE CONCRETE WITH A MINIMUM YIELD 28 DAY STRENGTH OF 2500 P.S.I.

- . THRUST BLOCKING SHALL BE CAST AGAINST UNDISTURBED SOIL. FORMS SHALL BE USED AS REQUIRED TO OBTAIN ADEQUATE BEARING AREA AND TO CONFINE THE CONCRETE. THRUST BLOCKING SHALL BEAR ON THE FITTING OR END CAP ONLY AND WILL
- NOT BE ALLOWED TO SPILL OVER THE JOINT OR AGAINST THE PIPE. 4. THE CITY MAY REQUIRE LARGER THRUST BLOCKS THAN SPECIFIED IF SOILS ARE DETERMINED TO PROVIDE LESS THAN 1000 PSF
- 5. IN THE ABSENCE OF SOIL BEARING CAPACITY INFORMATION USE 1000 PSF. 6. NO LESS THAN 150 PSI TEST PRESSURE SHALL BE USED FOR THRUST BLOCK CALCULATIONS. 7. BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED
- BEARING AREAS BY A CORRECTION FACTOR "F": F= (ACTUAL SPECIFIED TEST PRESSURE IN PSI)/(150 PSI)
 (ACTUAL SOIL BEARING CAPACITY IN PSF)/(1000 PSF)
- 8. EXAMPLE: CALCULATE THE BEARING AREA FOR 8"-90° BEND WITH A TEST PRESSURE OF 200 PSI AND SOIL BEARING CAPACITY OF

GROUND SURROUNDING METER PIT

SHALL SLOPE AWAY FROM LID AT 2%

MINIMUM GRADE

CUTOUT -

FROM TABLE BEARING AREA = 18.3 SF

INSTALL TOP 1/2" ABOVE

FLOW

FINAL GRADE

REQUIRED BEARING AREA ON UNDISTURBED SOIL = (0.44)(18.3 SF) = 8.1 SF



HORIZONTAL THRUST BLOCKS

DETAIL W-2B

DATE: JANUARY 2023 SCALE: N.T.S

1. METER MUST BE PURCHASED FROM THE WATER & SEWER (W&S) DEPARTMENT

3. IF SURFACE IS NOT TO FINAL GRADE AT TIME OF INSTALLATION OF METER, OR

5. IF PRESSURE REDUCING VALVE AND/OR BACKFLOW DEVICE IS REQUIRED BY

6. COPPER SHALL NOT SHOW ANY VISIBLE SIGNS OF CRIMPING AND SHALL BE

. FOR ADDITIONAL METER INSTALLATION REQUIREMENTS, REFER TO METER

INSTALLATION NOTES ON CITY OF GREELEY W&S DETAIL W-15, LATEST

REFER TO CITY OF GREELEY W&S DETAIL W-9A/W-9B AND CONSTRUCTION

SPECIFICATIONS, LATEST REVISION OF EACH, FOR CURB STOP, BOX, AND

9. FOR PRODUCT AND MANUFACTURER SPECIFICATIONS, REFER TO CURRENT

VERSION OF CITY OF GREELEY W&S CONSTRUCTION SPECIFICATIONS

INSTALLED AND RESTRAINED IN ACCORDANCE WITH WATER & SEWER

UPPER HALF OF STANDARD VALVE BOX (INSTALLED PER SPECIFICATIONS

3 ¾" OR 1" SERVICE PIPE (MATCH SERVICE PIPE I.D.) (SEE NOTE 8)

10. ALL BURIED PIPE, FITTINGS, VALVES, AND APPURTENANCES SHALL BE

SERVICE PIPE REQUIREMENTS. IF CROSS-LINKED C904 PEX SERVICE LINE USED

FROM CORP STOP TO CURB STOP THE PEX LINE MUST BE UPSIZED TO NEXT

11.INSTALL TRACER WIRE ACCORDING TO CITY OF GREELEY W&S SPECIFICATIONS

PLUMBING CODE, IT SHALL BE INSTALLED DOWNSTREAM OF METER PER

GRADE CHANGES AFTER INSTALLATION, PROPERTY OWNER MUST ADJUST PIT

2. NOT FOR INSTALLATION IN ROADWAYS, DRIVEWAYS, OR PARKING AREAS.

16"

BOTTOM

TOP OF VERTICAL BEND

VALVE

(GATE OR BUTTERFLY)

VOL. OF GRAVITY CONCRETE

BLOCK (CU FT)

45°

16.7

36.9

65.9

144.1

254.5

BENDS

8.5

18.8

33.6

73.4

129.7

SPECIAL DESIGN REQUIRED

22½° 11½°

9.5

16.9

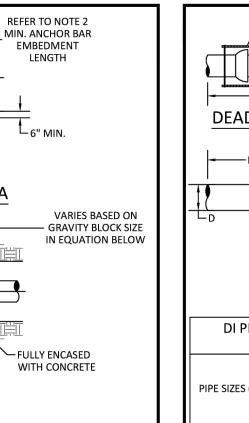
36.9

65.2

GRAVITY THRUST BLOCKS

DETAIL W-3

DATE: JANUARY 2023



NO	TES:
1.	POLYETHYLENE BOND BREAKER SHALL BE INSTALLED BETWEEN ALL FITTINGS AND CONCRETE.
2.	ALL ANCHOR BARS SHALL BE EPOXY COATED NO. 5 REBAR AND SHALL BE EMBEDDED IN CONCRETE TO WITHIN 6" OF END OF CONCRETE BLOCK AND SHALL HAVE MINIMUM 6" HOOK I FNGTH
	TIOOK LENGTH.

SECTION A-A

REDUCER

GRAVITY CONCRETE BLOCK SIZES SHOWN IN TABLE ARE BASED ON 150 LB/FT3 DENSITY FOR CONCRETE, 150 PSI TEST PRESSURE, AND A SAFETY FACTOR OF 1.5.

> SAFETY FACTOR X THRUST FORCE [LB] GRAVITY BLOCK SIZE [FT³] = DENSITY OF BLOCK MATERIAL [LB/FT³]

NO. 5 REBAR

- ANCHOR BAR BENT OVER

VALVE (2 REQUIRED)

WOL. OF GRAVITY BLOCK

BELOW UNDISTURBED EARTH

POLYETHYLENE · **BOND BREAKER**

REFER TO NOTE 2 FOR

MIN. ANCHOR BAR

HOOK LENGTH

THRUST FORCE FOR REDUCERS [LB] =TEST PRESSURE [PSI] X (A_{LARGE} [IN²] - A_{SMALL} [IN²])

: GRAVITY BLOCK SIZE FOR REDUCERS [FT³] =1.5 X (A_{LARGE} [IN²] - A_{SMALL} [IN²])

SCALE: N.T.S

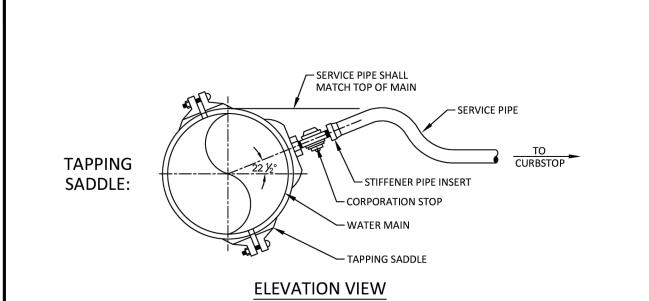
CAP AND PLUG

HORIZONTAL PIPE RESTRAINT

120

DETAIL W-4A

DATE: JANUARY 2023 SCALE: N.T.S.



DATE: JANUARY 2023

HORIZONTAL THRUST BLOCKS

DETAIL W-2A

TYPE OF PIPE AND SIZE OF TAP												
PIPE		(CAST IRO	N			DU	ICTILE IR	ON		PVC	C-900
SIZE	3/4"	1"	1 1/2"	2"	3"&4"	3/4"	1"	1 1/2"	2"	3"&4"	< 2"	> 2"
4"	S	S	NO	NO	TSV	S	S	NO	NO	TSV	S	TSV
6"	S	S	S	S	TSV	S	S	S	S	TSV	S	TSV
8"	S	S	S	S	TSV	S	S	S	S	TSV	S	TSV
12"	S	S	S	S	TSV	S	S	S	S	TSV	S	TSV
16"	S	S	S	S	TSV	S	S	S	S	TSV	N/A	N/A

- TAPPING SADDLE REQUIRED, ALL SADDLES SHALL HAVE AWWA TAPER THREADS. - NO TAP PERMITTED WITH OR WITHOUT A SADDLE, A TEE CONNECTION MAY BE PERMITTED IF SPECIFICALLY AUTHORIZED BY THE WATER DEPARTMENT. TAPPING SLEEVE AND VALVE REQUIRED. "N/A" - NOT APPLICABLE.

NOTES:

- REFERENCE CITY OF GREELEY, WATER & SEWER CONSTRUCTION SPECIFICATIONS, LATEST REVISION, FOR TAPPING SADDLE
- EXISTING STEEL MAINS, TWELVE INCHES (12") IN DIAMETER OR LESS, SHALL BE TAPPED USING A CITY ACCEPTED TAPPING
- & SEWER SPECIFICATIONS, LATEST REVISION. . INSTALL TRACER WIRE ACCORDING TO CITY OF GREELEY WATER & SEWER SPECIFICATIONS AND W&S UTILITY LOCATING ("UL")
- STANDARD DETAILS, LATEST REVISION OF EACH. REFER TO CITY OF GREELEY WATER AND SEWER SPECIFICATIONS, LATEST REVISION, FOR PRODUCT AND MFR SPECIFICATIONS.
- THIS DETAIL ALSO APPLIES TO NON-POTABLE IRRIGATION SERVICE CONNECTIONS TO NON-POTABLE IRRIGATION MAINS. SERVICE TAPS ON WATER MAINS LARGER THAN 16" MAY BE CONSIDERED UNDER CERTAIN CIRCUMSTANCES WITH SPECIAL
- DESIGN ON A CASE-BY-CASE SCENARIO. . FOR ANY NEW WATER SERVICES TAPPING INTO EXISTING MAINS THE CONTRACTOR SHALL NOTIFY THE CITY 72 HOURS PRIOR AT 970-350-9320.



DETAIL W-6

DATE: JANUARY 2023

. ALL BURIED PIPE, FITTINGS, VALVES, AND APPURTENANCES SHALL BE RESTRAINED AND INSTALLED PER CITY OF GREELEY WATER 4)-

SCALE: N.T.S

TYPE "K" COPPER TUBING-C904 PEX OR COPPER SERVICE PIPE **ELEVATION VIEW** (SEE NOTE 6) OUTSIDE SETTING FOR $\frac{3}{4}$ " & 1" POTABLE WATER METER

FLOW ' BRICK SUPPORT (PLACE ON UNDISTURBED SOIL TRACER WIRE (SEE NOTE 11) COPPER METER SETTER (MFR PER SPECIFICATIONS) COMPOSITE DOUBLE LID CONE OR APPROVED EQUAL (MFR PER SPECIFICATIONS) STANDARD FORGED BRASS WATERWORKS PENTAGON HEAD WITH LOCKING SCREW METER ENDPOINT RADIO TRANSMITTER (RT UNI TYPE K COPPER MATCHING METER SIZE

DETAIL W-7 SCALE: N.T.S.

NO EXCEPTIONS.

TO MEET DEPTH AND SPECIFICATIONS.

(SPECIFICATIONS), LATEST REVISION.

DEPARTMENT SPECIFICATIONS, LATEST REVISION.

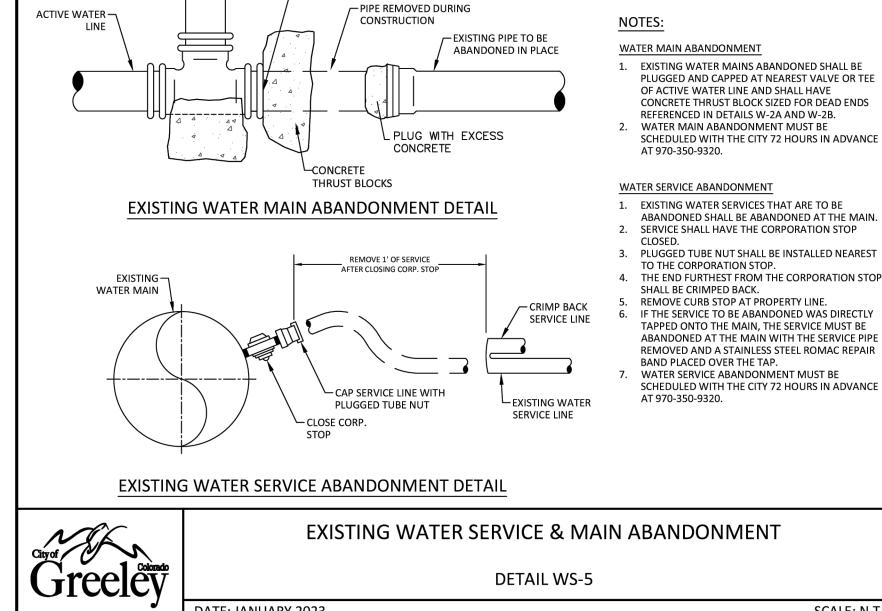
AND STANDARD DETAILS, LATEST REVISION.

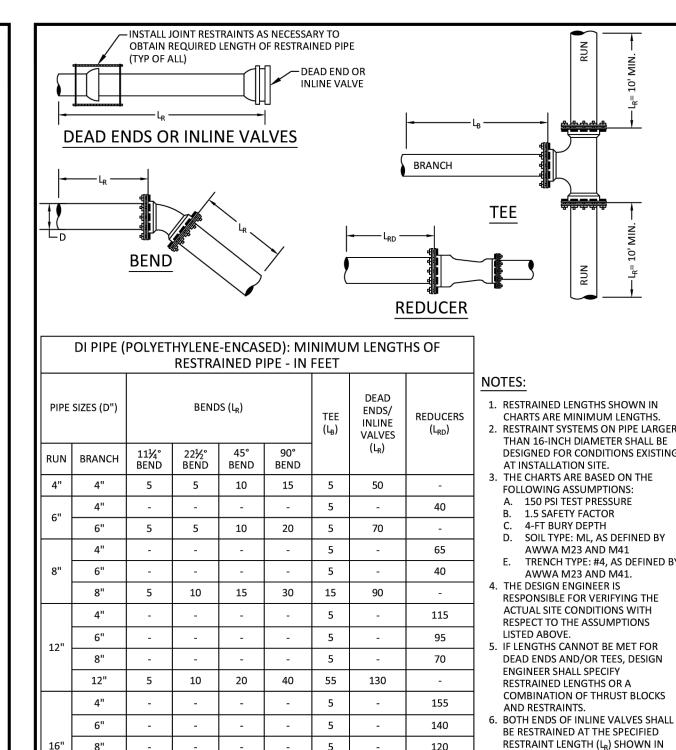
BUILDING AND PLUMBING CODE.

. NO CONCRETE FLOOR SHALL BE POURED IN METER PIT.

INSTALLED FROM CURB STOP TO 5 FEET PAST METER PIT.

PIPE SIZE FROM METER SIZE TO REDUCE LOSS OF PRESSURE.





24

16" 5 10 20 50 90



A DIVISION OF

LITTLETON CO, 80120 PHONE: (303) 979-3900

HABERER CARPENTRY INC.

621 SOUTHPARK DR., SUITE 1600

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MEMBER UTILITIES.

4. THE END FURTHEST FROM THE CORPORATION STOP SCHEDULED WITH THE CITY 72 HOURS IN ADVANCE DATE: JANUARY 2023 SCALE: N.T.S.

WATER SERVICE CONNECTION

SCALE: N.T.S

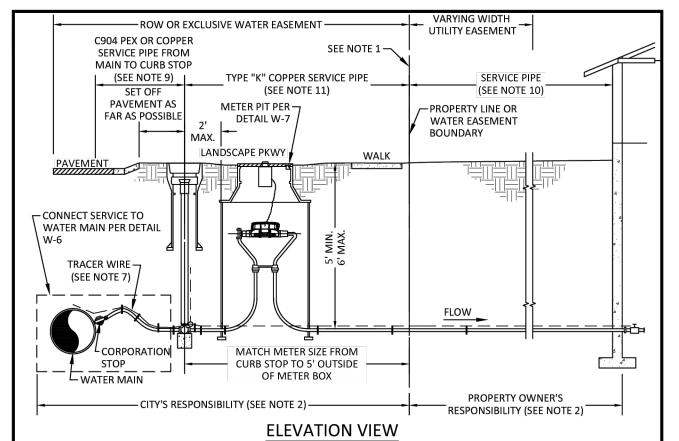
DATE: JANUARY 2023

Project No: 24_06

Drawn By: GJB Checked By: CCH

Date Issued: 26.02.2025

Sheet Name: PUBLIC DETAILS (2)



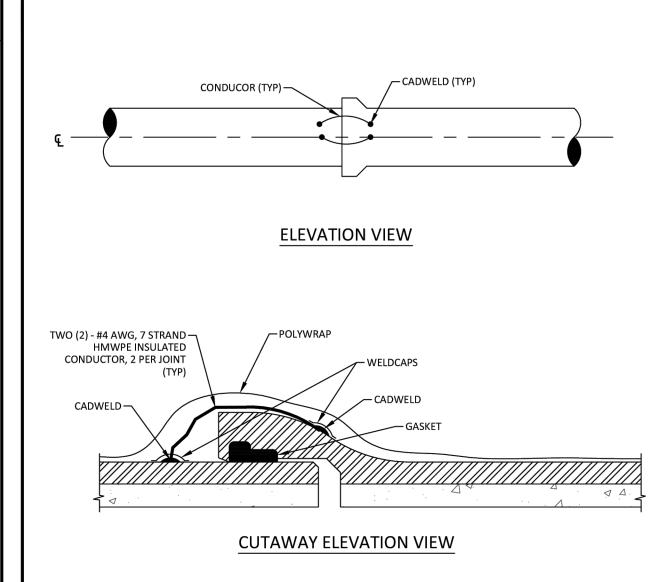
- PLACEMENT OF CURB STOP SERVICE BOX MAY VARY FROM LANDSCAPE PARKWAY OR A MAXIMUM OF ±1 FOOT OF THE PROPERTY LINE. ANY VARIANCE OF LOCATION OF CURB STOP MUST BE APPROVED PRIOR TO CONSTRUCTION.SEE DESIGN CRITERIA, LATEST REVISION, FOR METER PIT LOCATION.
- WATER DEPARTMENT'S RESPONSIBILITY SHALL BE THE WATER MAIN. THE METER INSIDE THE METER PIT. THE CORPORATION STOP AND SERVICE PIPING FROM THE WATER MAIN UP TO DOWNSTREAM OF METER. PROPERTY OWNER'S RESPONSIBILITY SHALL INCLUDE EVERYTHING DOWNSTREAM OF METER STRUCTURE.
- SHOULD ANY SITUATION ARISE OTHER THAN SHOWN CONCERNING THE DEPTH OR OBSTRUCTION OF SERVICE LINE OR THE PLACEMENT OF THE METER PIT OR STOP BOX, CALL (970) 350-9317 AND ASK FOR METER SERVICES DIVISION. REFER TO WATER & SEWER (W&S) STANDARD DRAWINGS AND CONSTRUCTION SPECIFICATIONS (SPECIFICATIONS) FOR METER
- INSTALLATION REQUIREMENTS. CURB STOP IS TO BE MINNEAPOLIS PATTERN OR APPROVED EQUAL.
- CURB STOP MUST BE INSTALLED WITH EITHER PLASTIC OR STAINLESS STEEL PIPE INSERTS TO ENSURE PROPER COMPRESSION FITTING ON C904 CROSS-LINKED PEX PIPE.
- INSTALL TRACER WIRE ACCORDING TO CITY OF GREELEY W&S SPECIFICATIONS AND STANDARD DETAILS, LATEST REVISION. ALL BURIED PIPE, FITTINGS, VALVES, AND APPURTENANCES SHALL BE INSTALLED AND RESTRAINED IN ACCORDANCE WITH W&S COPPER OR C904 CROSS-LINKED PEX SERVICE LINE SHALL BE INSTALLED FROM THE CORPORATION STOP TO CURB STOP. REFER TO
- W&S CONSTRUCTION SPECIFICATIONS FOR APPROVED SERVICE PIPE PRODUCT AND MFR REQUIREMENTS.). FROM 5 FT PAST THE METER PIT ON THE OWNER SIDE UP TO BUILDING STRUCTURE SHALL BE IN ACCORDANCE WITH BUILDING CODE AND DRINKING WATER REQUIREMENTS.
- TYPE "K" COPPER SHALL BE PLACED FROM THE CURB STOP, THROUGH THE METER PIT, AND UP TO 5 FEET PAST THE METER PIT ON CUSTOMER SIDE. I. ALL SERVICE PIPE SHALL BE SIZED ACCORDING TO SERVICE TAP INSIDE DIAMETER AND MUST COMPLY WITH AWWA C904. SEE
- W&S DESIGN CRITERIA, LATEST REVISION. UPPER HALF OF STANDARD VALVE BOX SHALL BE PLACED OVER CURB STOP AND TRACER WIRE TEST STATION LOOP ACCORDING TO W&S SPECIFICATIONS, LATEST REVISION.



POTABLE WATER SERVICE LINE, STOP BOX & METER INSTALLATION (INSIDE LANDSCAPE PARKWAY)

DETAIL W-9A

DATE: JANUARY 2023 SCALE: N.T.S.



- 1. CONDUCTOR WIRE SHALL BE RATED FOR DIRECT BURIAL, AND HAVE BOTH ENDS CAD WELDED TO THE PIPE OR BONDING STRAP BOLTED TO PIPE. WIRE SHALL HAVE A MINIMUM OF 2" SLACK. . JOINT BONDING SHALL ALSO APPLY TO RESTRAINED AND MECHANICAL JOINT PIPE AND FITTINGS.
- 3. CONSTRUCT CADWELD CONNECTIONS PER WATER & SEWER CONSTRUCTION SPECIFICATIONS AND DETAILS, LATEST REVISION. 4. ACCEPTABLE ALTERNATIVE TO ANODE CATHODIC PROTECTION IS ZINC COATED D.I.P.



DETAIL W-12

DATE: JANUARY 2023 SCALE: N.T.S

CUT A SECTION OF POLYETHYLENE (PE) TUBE APPROXIMATELY 2' LONGER THAN THE PIPE SECTION. REMOVE ALL DEBRIS FROM THE PIPE SURFACE. SLIP THE TUBE AROUND THE END OF THE PIPE, STARTING AT THE SPIGOT END. BUNCH THE TUBE ACCORDION-FASHION ON THE END OF THE PIPE. PULL BACK THE OVERHANGING END OF THE TUBE UNTIL IT CLEARS THE PIPE SPIGOT END. PIPE LOWERING STRAP DUCTILE IRON PIPE LOWER THE PIPE INTO THE TRENCH AND MAKE UP THE PIPE JOINT WITH THE PRECEDING SECTION OF PIPE. SPREAD THE TUBE OVER THE ENTIRE PIPE BARREL AND REMOVE THE PIPE LOWERING STRAP. MAKE SURE NO DIRT OR BEDDING MATERIAL BECOMES TRAPPED BETWEEN TUBE AND PIPE. — PIPE LOWERING PRECEDING STRAP (REMOVE) PIPE SECTION ∠POLYETHYLENE TUBE OVERLAP THE JOINT WITH THE TUBE FROM THE PRECEDING LENGTH OF PIPE AND SECURE IT INTO PLACE POLYETHYLENE TUBE DUCTILE IRON PIPE -- SECURED TUBE W/ STEP 4

ADHESIVE TAPE

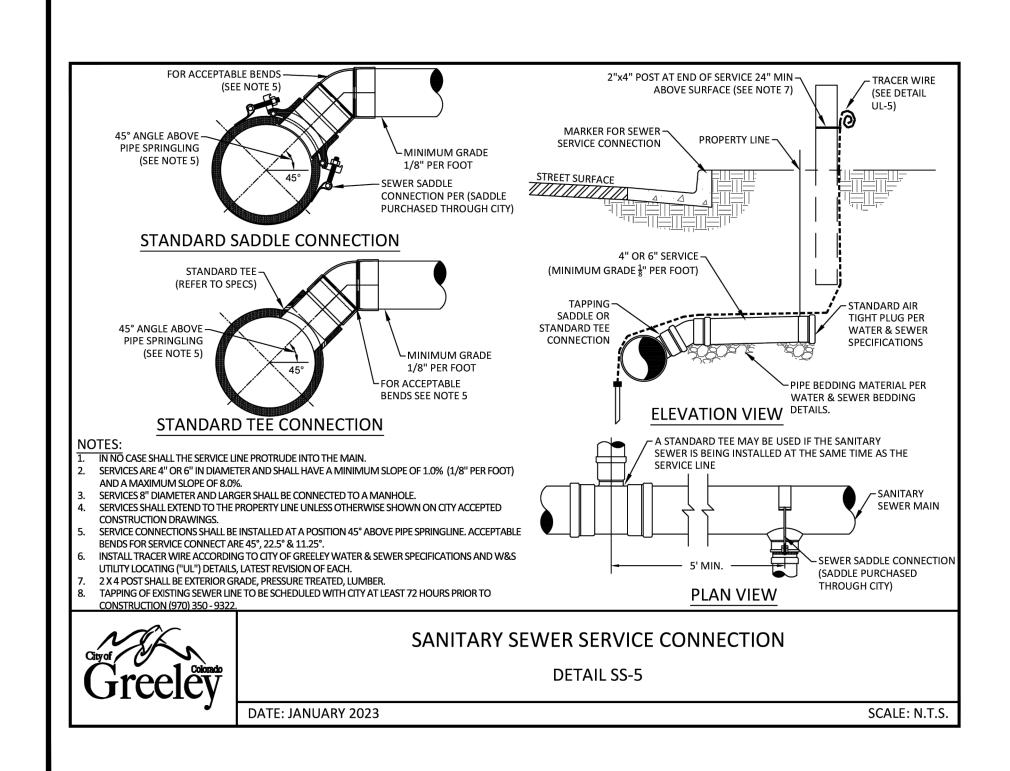
OVERLAP THE SECURED TUBE END WITH THE TUBE END OF THE NEW PIPE SECTION AND SECURE THE NEW TUBE END IN PLACE WITH THE TAPING PROCEDURE IN STEP 3. TAKE UP THE SLACK IN THE TUBE ALONG THE BARREL OF THE PIPE TO MAKE A SNUG, BUT NOT TIGHT, FIT BY FOLDING THE EXCESS TUBE BACK OVER THE TOP OF THE PIPE. SECURE THE TUBE AT 3' TO 5' INTERVALS ALONG THE PIPE BARREL WITH ADHESIVE TAPE. → POLYETHYLENE ADHESIVE TAPE → DUCTILE IRON PIPE DUCTILE IRON PIPE -REPAIR ANY RIPS, TEARS, OR OTHER DAMAGE WITH ADHESIVE TAPE. CAREFULLY BACKFILL PIPE. TO PREVENT DAMAGE TO THE TUBE DURING BACKFILL, ALLOW ADEQUATE SLACK IN THE TUBE AT THE JOINT. AVOID DAMAGING THE TUBE WHEN USING TAMPING DEVICES. POLYETHYLENE WRAP INSTALLATION ON STANDARD DUCTILE IRON PIPE



DETAIL W-13B

DATE: JANUARY 2023 SCALE: N.T.S.

DUCTILE IRON PIPE JOINT BONDING



A DIVISION OF HABERER CARPENTRY INC. 621 SOUTHPARK DR., SUITE 1600 LITTLETON CO, 80120

PHONE: (303) 979-3900



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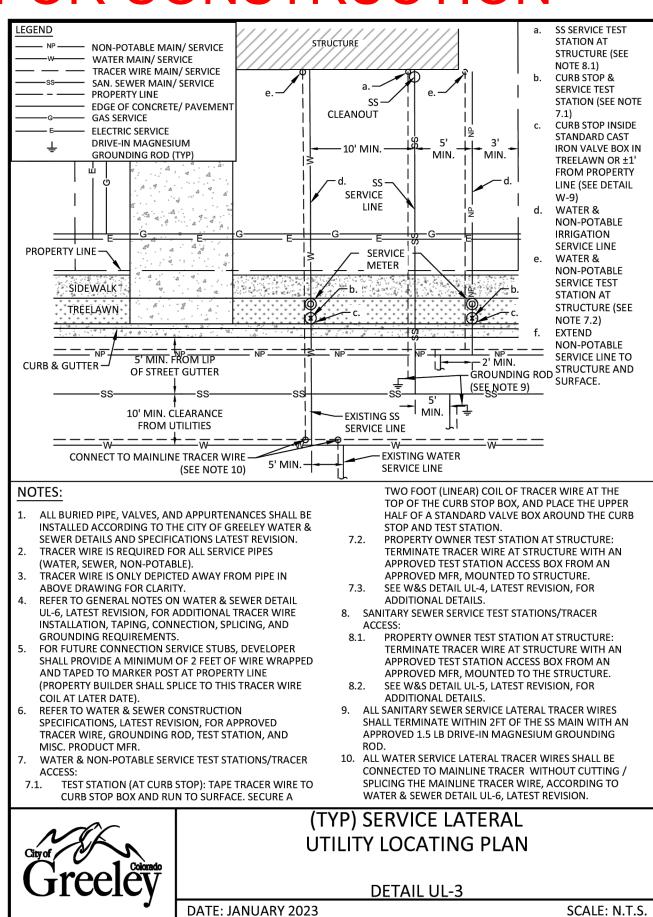
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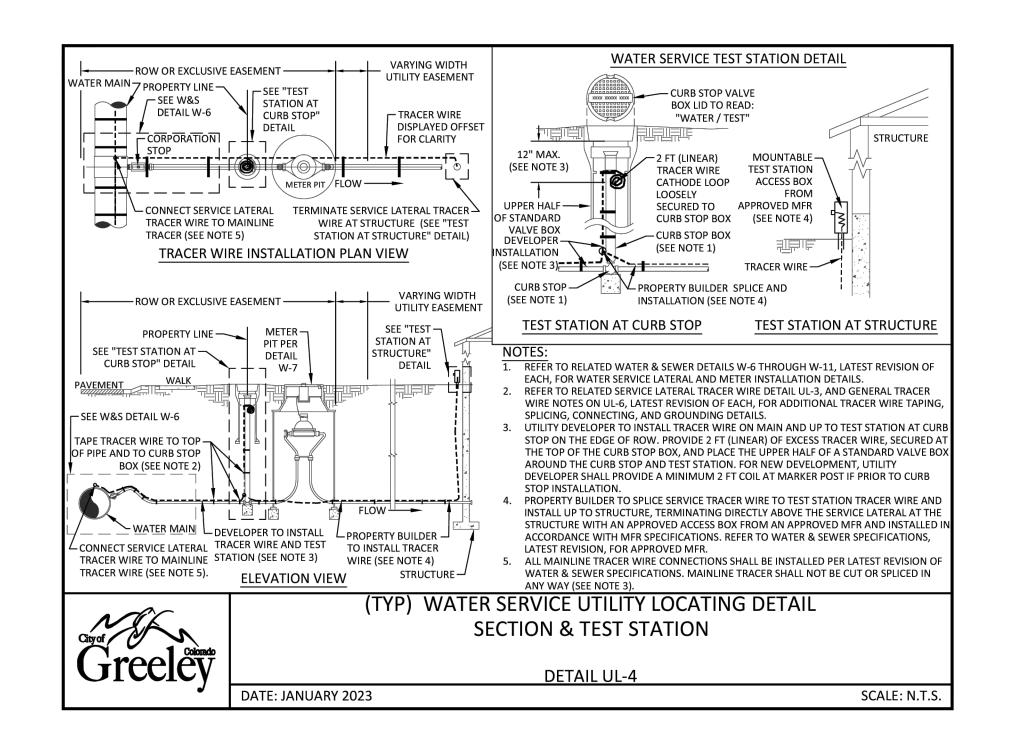
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10.29.24	Submittal #2		
12.13.24	Submittal #3		
01.17.25	Submittal #4		
02.07.25	Submittal #5		
02.28.25	FINAL		
	Date: 08.05.24 10.29.24 12.13.24 01.17.25 02.07.25		

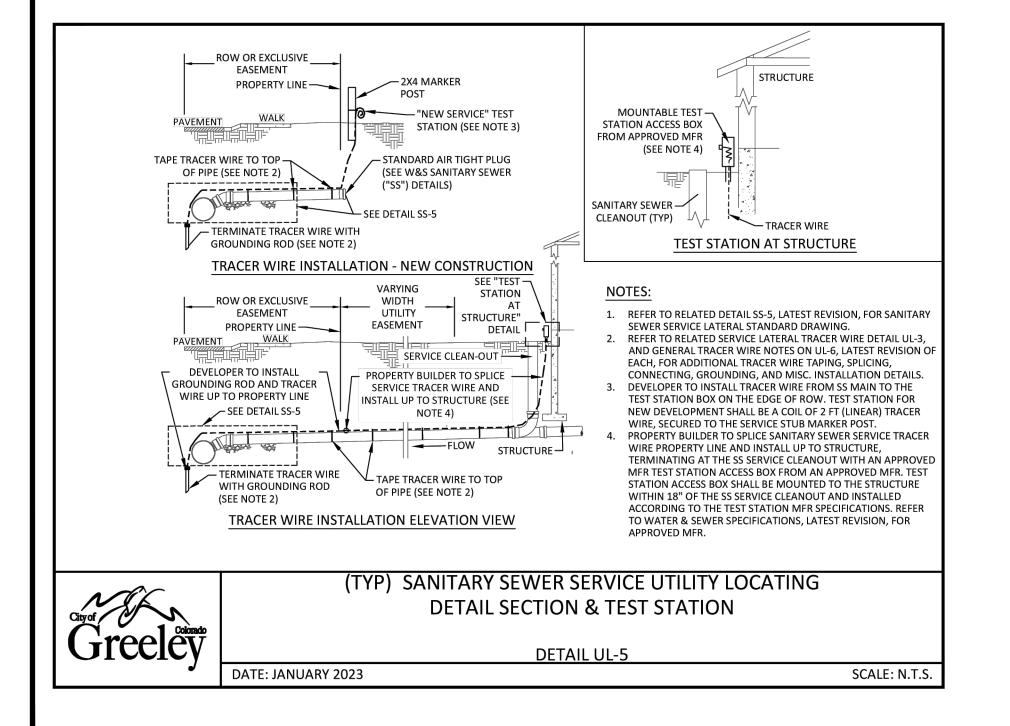
Project No: 24_06 Drawn By: GJB Checked By: CCH

Date Issued: 26.02.2025 Sheet Name:

PUBLIC DETAILS (3)







TRACER WIRE NOTES:

- LOCATING MUST MEET REQUIREMENTS OF SENATE BILL 18-167 OR ANY
 LIPDATE
- TRACER WIRE SHALL BE LOCATED ON TOP OF PIPE, TAPED EVERY 3 TO 4
 FEET MAX AND EACH SIDE OF EVERY JOINT, FITTING, AND VALVE.
 TRACER WIRE IS REQUIRED FOR ALL WATER SERVICE LATERALS,
 NON-POTABLE IRRIGATION SERVICE LATERALS, ALL SANITARY SEWER
 LATERALS, ALL WATER MAINS, AND ALL NON-POTABLE IRRIGATION
- TWO UNDERGROUND WIRE SPLICES ARE ALLOWED PER SERVICE, SHALL HAVE LOCKABLE CONNECTIONS SPECIFICALLY DESIGNED FOR DIRECT BURIAL, AND DIELECTRIC SILICONE GEL FILLED OR APPROVED EQUAL.
- BURIAL, AND DIELECTRIC SILICONE GEL FILLED OR APPROVED EQUAL.
 REFER TO WATER & SEWER SPECIFICATIONS, LATEST REVISION, FOR TRACER WIRE GAUGE, MATERIAL, AND COATING REQUIREMENTS.
 TRACER WIRE SYSTEMS MUST BE INSTALLED AS A SINGLE CONTINUOUS WIRE, EXCEPT WHERE USING APPROVED CONNECTORS. NO LOOPING OR
- COILING OF WIRE AROUND THE PIPE IS ALLOWED.

 7. ALL WATER SERVICE LATERAL TRACER WIRES SHALL BE CONNECTED TO MAINLINE TRACER USING AN APPROVED MAINLINE TO LATERAL LUG CONNECTOR WITHOUT CUTTING / SPLICING THE MAINLINE TRACER WIRE.
- 8. ALL MAINLINE TRACER WIRE BRANCHES SHALL BE MADE WITH AN APPROVED MAINLINE TO MAINLINE LUG CONNECTOR WITHOUT CUTTING / SPLICING EITHER MAINLINE TRACER WIRE.

 9. DEFENDING MATTER & SELVER CONSTRUCTION SECURICATIONS AND
- 9. REFER TO WATER & SEWER CONSTRUCTION SPECIFICATIONS, LATEST REVISION, FOR APPROVED TRACER WIRE MFR AND ADDITIONAL INSTALLATION REQUIREMENTS.

TEST STATIONS:

- 1. TRACER WIRE SHALL BE ACCESSIBLE AT LEAST ONCE EVERY 1,000 FT
- TEST STATION SHALL NOT BE FURTHER THAN 1,000 FT FROM AN APPROVED "FAR-END" GROUNDING ROD. THIS GROUNDING ROD MUST MEET WATER & SEWER CONSTRUCTION SPECIFICATIONS AND DESIGN CRITERIA STATED IN THE GROUNDING NOTES.
- 3. TEST STATION MAY EITHER BE IN THE FORM OF A CATHODE WIRE LOOP ACCESSIBLE FROM FINAL GRADE SURFACE OR AN APPROVED TEST

STATION ACCESS BOX FROM AN APPROVED MFR. EITHER TEST STATION FORM SHALL BE WITHIN THE FAR-END GROUNDING INTERVAL REQUIREMENT, AND MEET WATER & SEWER TRACER WIRE CONSTRUCTION SPECIFICATIONS AND DETAILS, LATEST REVISION OF

EACH.
4. GROUND SURROUNDING TEST STATION ACCESS BOXES SHALL SLOPE

AWAY FROM LID AT 2% MINIMUM GRADE.

GROUNDING NOTES:

- 1. ALL SANITARY SEWER SERVICE LATERAL TRACER WIRES SHALL TERMINATE WITHIN 2 FT OF THE SS MAIN WITH AN APPROVED DRIVE-IN MAGNESIUM GROUNDING ROD. SINGLE GROUNDING ROD MAY BE UTILIZED FOR UP TO 3 SEWER SERVICES MAX.
- MAINLINE TRACER WIRE MUST BE GROUNDED AT EVERY DEAD END/STUB, AND ALONG CONTINUOUS RUNS AT A MAXIMUM OF 2,000 FT INTERVALS WITH A 1.5 LB DRIVE-IN MAGNESIUM GROUNDING ROD PER MFR REQUIREMENTS. PLACEMENT OF GROUNDING ROD SHALL BE INSTALLED IN SUCH A WAY THAT ALLOWS FOR PROPER WIRE LOCATING WITHOUT A LOSS OR DETERIORATION OF LOW FREQUENCY SIGNAL (512 HZ) FOR DISTANCES IN EXCESS OF 1.000 FT.
- 3. IF GROUNDING ROD IS TOO CLOSE TO A TEST STATION THAT IT INTERFERES WITH PROPER LOCATING, THE GROUNDING ROD MUST BE SWITCH-ABLE IN ORDER TO TEMPORARILY DEACTIVATE THE INTERFERING GROUND SIGNAL IN THE VICINITY. SUCH A TEST STATION SHALL BE IN THE FORM OF A TEST STATION ACCESS BOX FROM A CITY APPROVED MED
- APPROVED MFR.

 4. REFER TO WATER & SEWER CONSTRUCTION SPECIFICATIONS, LATEST REVISION, FOR APPROVED GROUNDING ROD MFR AND ADDITIONAL REQUIREMENTS.

TRACER WIRE GENERAL NOTES

DETAIL UL-6

DATE: JANUARY 2023 SCALE: N.T.S.



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MARKING OF UNDERGROUND
MEMBER UTILITIES.

MARKING OF UNDERGRO MEMBER UTILITIES.

GREELEY - DENTAL BUILDI SONSTRUCTION DOCUMENTS SPR2024-0022 1911 59th AVENUE GREELEY, CO 80634

REVISIONS:

No. Date: Description:

1 08.05.24 Submittal #1

2 10.29.24 Submittal #2

3 12.13.24 Submittal #3

4 01.17.25 Submittal #4

5 02.07.25 Submittal #5

6 02.28.25 FINAL

Project No: 24_06
Drawn By: GJB
Checked By: CCH

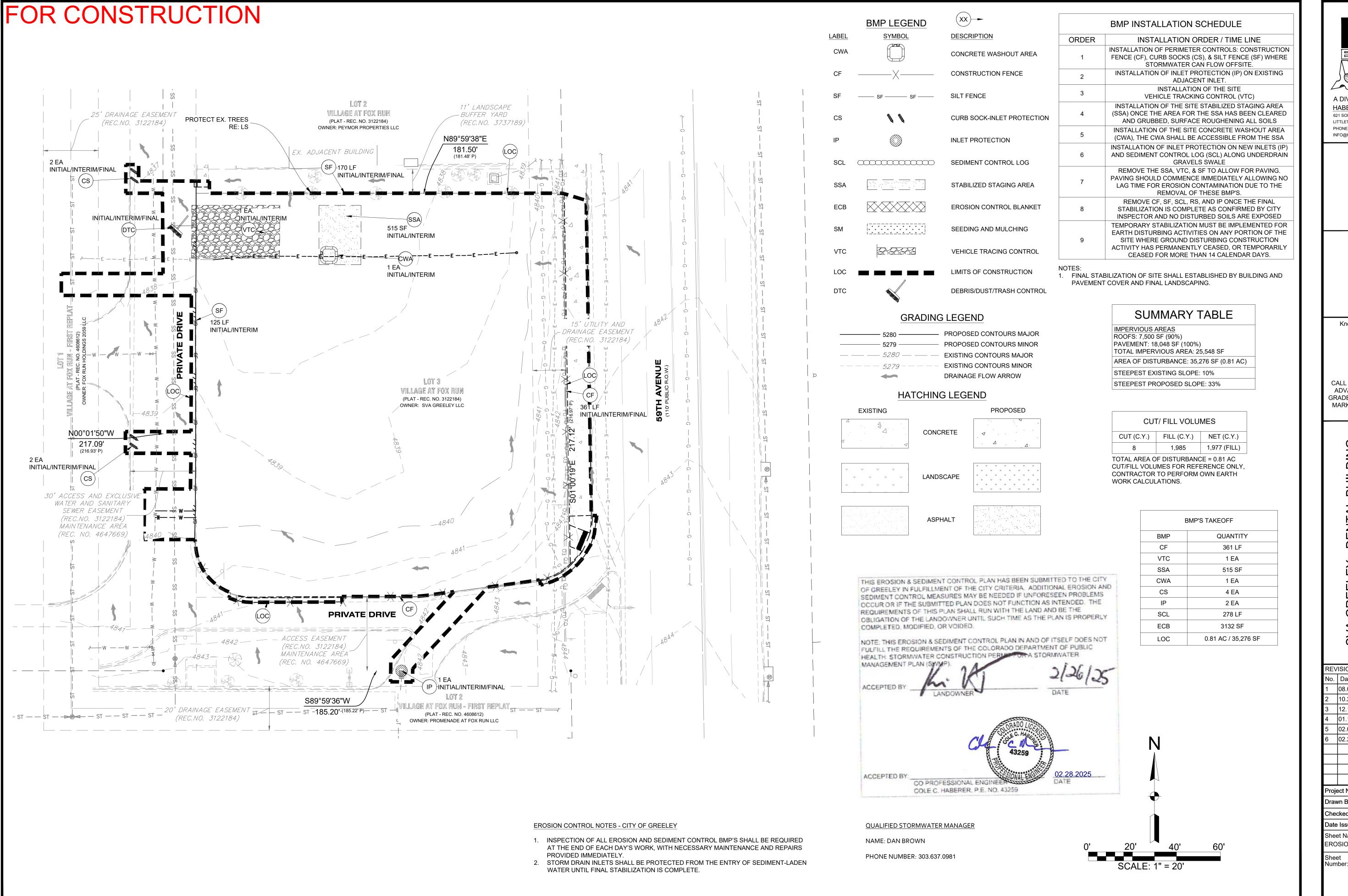
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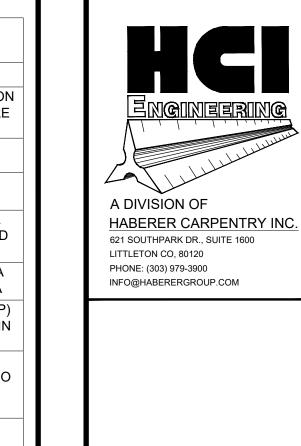
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Sheet Number:

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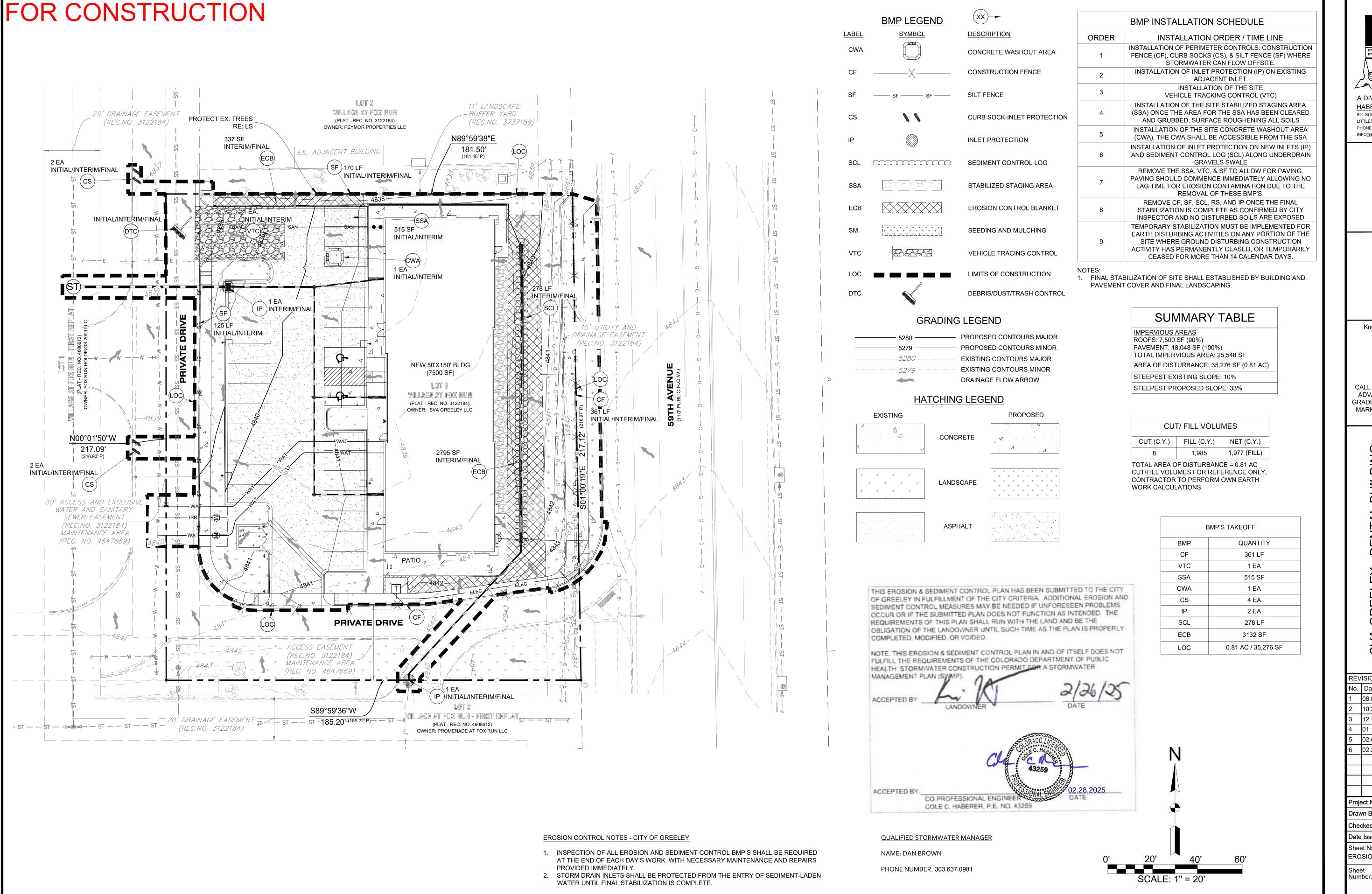
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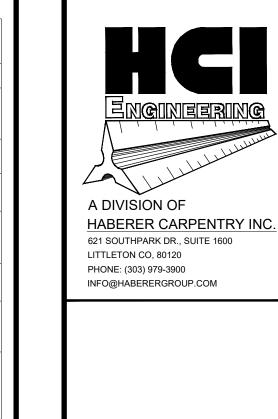
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Project No: 24_06 Drawn By: GJB

Checked By: CCH Date Issued: 26.02.2025

EROSION CONTROL PLAN - INITIAI





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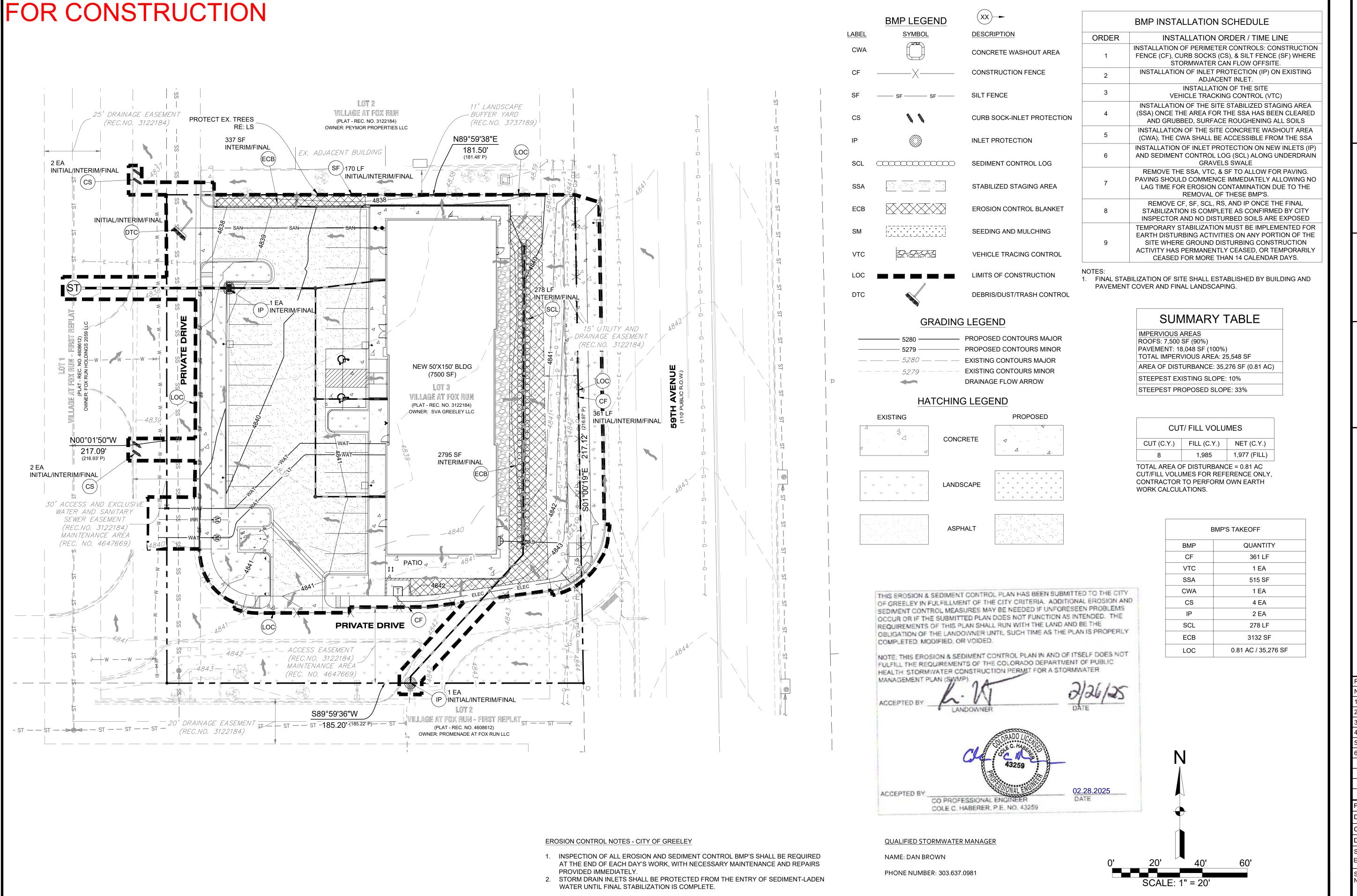
A GREELEY - DEN CONSTRUCTION I SPR2024-1911 59th AN GREELEY, CA

REVISIONS: No. Date: Description: 08.05.24 | Submittal #1 10.29.24 | Submittal #2 12.13.24 | Submittal #3 01.17.25 | Submittal #4 02.07.25 | Submittal #5 02.28.25 FINAL

Project No: 24_06 Drawn By: GJB

Checked By: CCH Date Issued: 26.02.2025

EROSION CONTROL PLAN - INTERI



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GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

TAL BUILDING OCUMENTS 322 ENUE 80634 A GREELEY - DEN CONSTRUCTION I SPR2024-1911 59th AN GREELEY, CA

REVISIONS: No. Date: Description: 08.05.24 | Submittal #1 10.29.24 | Submittal #2 12.13.24 | Submittal #3 01.17.25 | Submittal #4 02.07.25 | Submittal #5 02.28.25 FINAL

Project No: 24_06 Drawn By: GJB

Checked By: CCH

Date Issued: 26.02.2025

Number:

EROSION CONTROL PLAN - FINAL

STUDDED STEEL

TEE POST

GRADE

' MAX

SPACING

CONSTRUCTION FENCE INSTALLATION NOTES

-LOCATION OF CONSTRUCTION FENCE.

Vehicle Tracking Control (VTC)

SIDEWALK OR OTHER

ROADWAY

COMPACTED SUBGRADE

INSTALL ROCK FLUSH WITH

OR BELOW TOP OF PAVEMENT

November 2010

PAVED SURFACE

MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.

1. SEE PLAN VIEW FOR:

__ CF ___ CF ___ CF _

5' MIN.

4' MIN.

PLASTIC CAP,

ORANGE RESINET

STUDDED STEEL

November 2010

VTC

(WIDTH CAN BE

LESS IF CONST.

VEHICLES ARE

PHYSICALLY

CONFINED ON

BOTH SIDES)

UNLESS OTHERWISE SPECIFIED

- CDOT SECT. #703, AASHTO #3

NON-WOVEN GEOTEXTILE

BY LOCAL JURISDICTION, USE

COARSE AGGREGATE OR 6"

NON-WOVEN GEOTEXTILE FABRIC

MINUS ROCK

BETWEEN SOIL AND ROCK

UNLESS OTHERWISE SPECIFIED BY LOCAL

3 COARSE AGGREGATE

OR 6" MINUS ROCK

JURISDICTION, USE CDOT SECT. #703, AASHTO

SM-4

CONSTRUCTION FENCE -

OR APPROVED EQUAL

CF-1. PLASTIC MESH CONSTRUCTION FENCE

2. CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING

THAT IS AT LEAST 4' HIGH, METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY.

5. CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND

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50 FOOT (MIN.)

3. CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL

4. STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE.

SM-3

SILT FENCE INSTALLATION NOTES

DOWN THE STAKE.

SILT FENCE MAINTENANCE NOTES

DOCUMENTED THOROUGHLY.

DISCOVERY OF THE FAILURE.

TEARING, OR COLLAPSE.

DIFFERENCES ARE NOTED.

SEDIMENTS IS APPROXIMATELY 6".

EROSION, AND PERFORM NECESSARY MAINTENANCE.

1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION

AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR

2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT

3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING.

COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR

4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD

5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES

6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE

EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED

5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING,

6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED

AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER

7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL,

SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

 $\underline{\text{NOTE:}}$ MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)

TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED

TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK"

7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

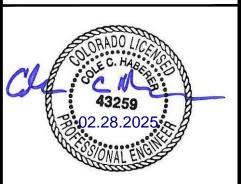
RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').

BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.

OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC

FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL

HABERER CARPENTRY INC. 621 SOUTHPARK DR., SUITE 1600 LITTLETON CO, 80120 PHONE: (303) 979-3900 INFO@HABERERGROUP.COM



Know what's below.



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MEMBER UTILITIES.

TAL BUILDII OCUMENTS 322 ENUE 80634 ELEY - DEN TRUCTION D SPR2024-(1911 59th AV SREELEY, CC

<u>0</u> 0

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Checked By: CCH

CONSTRUCTION FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

5. WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

_ SF ___ SF ___ SF __ (RECOMMENDED) WOODEN FENCE POST WITH 10' I SPACING SILT FENCE **GEOTEXTILE** GROUND 6" MIN AT LEAST 10" OF SILT FENCE "TAIL" SHALL BE BURIED SILT FENCE POSTS SHALL OVERLAP AT JOINTS SO THAT NO GAPS 7 EXIST IN SILT FENCE/ ROTATE

SECTION A

SF-1. SILT FENCE

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THICKNESS OF GEOTEXTILE HAS '

BEEN EXAGGERATED, TY

SF-3

SM-6

SF-4

Urban Drainage and Flood Control District

November 2010

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SM-6

Stabilized Staging Area (SSA)

Urban Storm Drainage Criteria Manual Volume 3

Vehicle Tracking Control (VTC)

SM-4

November 2010

 SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). -TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH,

Urban Drainage and Flood Control District

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH)

WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND

SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED

. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED

MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

CONSTRUCTION MAT OR TRM).

WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

EROSION, AND PERFORM NECESSARY MAINTENANCE.

DISCOVERY OF THE FAILURE.

ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.

DOWN STORM SEWER DRAINS.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

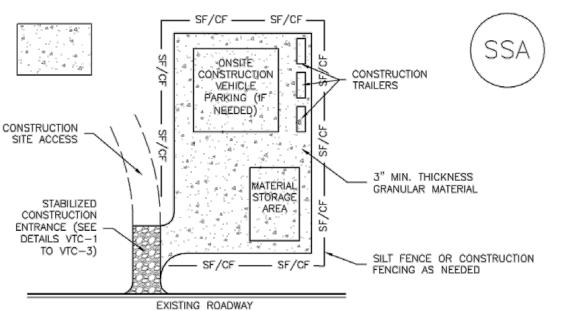
Stabilized Staging Area (SSA)

SECOND

POSTS SHALL BE JOINED AS

SHOWN, THEN ROTATED 180 DEG

IN DIRECTION SHOWN AND DRIVEN



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

-LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE. 4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

VTC-3

VTC-6

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-3

Project No: 24_06 Drawn By: GJB

Date Issued: 26.02.2025

EC DETAILS (1) Number:

CONCRETE WASHOUT

<u>CONCRETE WASHOUT AREA PLAN</u>

8 X 8 MIN.

CWA-1. CONCRETE WASHOUT AREA

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR

SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE,

THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR

SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND

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Urban Storm Drainage Criteria Manual Volume 3

LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT

5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF

3' MIN.

COMPACTED BERM AROUND

THE PERIMETER

UNDISTURBED OR

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:

LEAST 3' DEEP.

November 2010

SC-6

-CWA INSTALLATION LOCATION.

OF CONCRETE TRUCKS AND PUMP RIGS.

LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

COMPACTED SOIL

CWA

VEHICLE TRACKING

CONTROL (SEE

VTC DETAIL) OR

OTHER STABLE

2% SLOPE

DETAIL)

CWA-3

Inlet Protection (IP)

CWA-4

VEHICLE TRACKING

CONTROL (SEE VTC -

MM-1

Caraca

ROCK

- SECTION A

SOCKS

SEE ROCK SOCK DETAIL

SILT FENCE (SEE SILT FENCE DESIGN DETAIL

FOR JOINTING

INLET GRATE

PHONE: (303) 979-3900



Know what's below Call before you dig.

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

MEMBER UTILITIES.

FAL BUILE OCUMENTS 322 ENUE 80634

О 🥥 Ш ELEY - DEN TRUCTION D SPR2024-(1911 59th AV SREELEY, CC (J) (O)

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Project No: 24_06 Drawn By: GJB

Checked By: CCH Date Issued: 26.02.2025

Sheet Name:

EC DETAILS (2)

Number:

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE FROSION, AND PERFORM NECESSARY MAINTENANCE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED. 7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD). NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

SEE ROCK SOCK DESIGN

16" CINDER

16" CINDER

2"x4" WOOD STUD -

CURB INLET

DETAIL FOR JOINTING

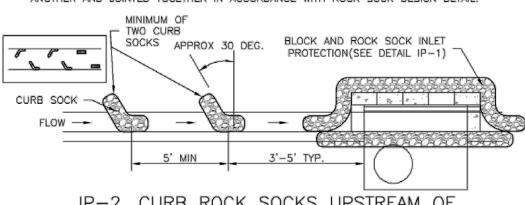
BLOCKS

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

2"x4" WOOD

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB. 3. GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.

2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.

3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.

4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

Urban Drainage and Flood Control District August 2013

Urban Storm Drainage Criteria Manual Volume 3 Rock Sock (RS)

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

SILT FENCE INLET PROTECTION INSTALLATION NOTES

AT A MAXIMUM SPACING OF 3 FEET.

IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR

IP-4. SILT FENCE FOR SUMP INLET PROTECTION

2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

INLETS IN PERVIOUS AREAS, INSTALL PER SEDIMENT CONTROL LOG DETAIL

August 2013

Inlet Protection (IP)

ROCK SOCK -

Urban Storm Drainage Criteria Manual Volume 3 SC-5 Rock Sock (RS)

Urban Drainage and Flood Control District

GENERAL INLET PROTECTION INSTALLATION NOTES

 SEE PLAN VIEW FOR: -LOCATION OF INLET PROTECTION. -TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)

2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.

3. MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE, INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR

5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.

6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD) ${\color{red} {\rm NOTE:}}$ MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN

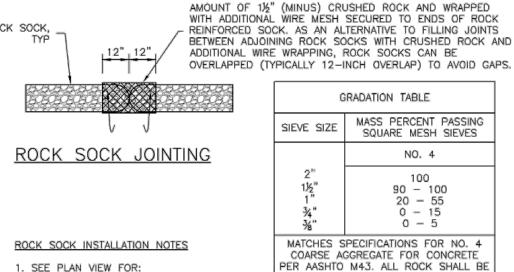
SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET NOTE: SOME MUNICIPALITIES DISCOURAGE OF PROFIDER THE GOLD OF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

RS 1½" (MINUS) CRUSHED ROCK ENCLOSED IN WIRE MESH " (MINUS) CRUSHED ROCK ENCLOSED IN WIRE MESH 4" TO 6" MAX AT CURBS. OTHERWISE GROUND SURFACE O" ON BEDROCK OR └── 6"—10" DEPENDING L HARD SURFACE, 2" ON EXPECTED IN SOIL SEDIMENT LOADS

ROCK SOCK SECTION

ROCK SOCK PLAN

ANY GAP AT JOINT SHALL BE FILLED WITH AN ADEQUATE



FRACTURED FACE, ALL SIDES. -LOCATION(S) OF ROCK SOCKS. 2. CRUSHED ROCK SHALL BE 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1½" MINUS). 3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2", RECOMMENDED MINIMUM ROLL WIDTH OF 48"

5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE

4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.

RS-1. ROCK SOCK PERIMETER CONTROL

ROCK SOCK MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION, INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.

5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.

6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. 7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH

TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

 ${\color{red} {\rm NOTE:}}$ MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

MOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONDED, SOURCE, METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER NDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN

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3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS, INSTALL PER SEDIMENT CONTROL LOG DETAIL. IP-5

CENTER (TYP.)

TRENCHED SEDIMENT CONTROL

12" OVERLAP - -

LOG JOINTS

SCL-1. TRENCHED SEDIMENT CONTROL LOG

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PERIMETER

TRENCH, TYP.

DISTURBED AREAS OF STREAMS AND DRAINAGE CHANNELS TO DEPTH

D ABOVE CHANNEL INVERT. ECB SHALL GENERALLY BE ORIENTED

PARALLEL TO FLOWLINES) STAKING PATTERN SHALL MATCH ECB

ECB-1. PIPE OUTLET TO DRAINAGEWAY

PARALLEL TO FLOW DIRECTION (I.E. LONG DIMENSIONS OF BLANKET

- ANCHOR

Rolled Erosion Control Products (RECP)

JOINT ANCHOR TOP OF

TRENCH, TYP. / CHANNEL BANK

TRENCHED SEDIMENT CONTROL LOG

1½" x 1½" x 18" (MIN) WOODEN STAKE

" DIAMETER (MIN)

CENTER STAKE IN CONTROL LOG

1½" x 1½" x 18" (MIN)

WOODEN STAKE -

ECB

SINGLE EDGE

TWO EDGES

ADJACENT

LOOP FROM

- STAKE, TYP.

FABRIC OR MAT, TYP

🛶 🚤 3" MIN, TYP.

COMPACTED

BACKFILL, TYP. PERIMETER ANCHOR TRENCH

JOINT ANCHOR TRENCH

INTERMEDIATE ANCHOR TRENCH

OVERLAPPING JOINT

WOOD STAKE DETAIL

MIN.

- 3" MIN.

SEDIMENT CONTROL LOG

NOTES:

9" DIAMETER (MIN)

SEDIMENT CONTROL LOG

SEDIMENT CONTROL

LOGS MAY NEED TO

2.PLACE LOG AGAINST

BE EMBEDDED DEEPER.

SIDEWALK OR BACK OF

CURB WHEN ADJACENT

TO THESE FEATURES.

COMPACTED EXCAVATED

9" DIAMETER (MIN)

SEDIMENT CONTROL LOG

November 2015

UNDISTURBED

AND/OR CHANNEL TYPE.

JOINT ANCHOR

TRENCH, TYP

PATTERN DETAIL)

EC-6

TRENCH SOIL

----- SCL------ SCL-----

8" DIAMETER (MIN) COMPOST SEDIMENT CONTROL LOG

NOTES:

8 LB/FT

1.THIS DETAIL IS FOR

2.PLACE LOG AGAINST

SIDEWALK OR BACK OF

TO THESE FEATURES.

DIAMETER (MIN) COMPOST

SEDIMENT CONTROL LOG

USE WITH SEDIMENT CONTROL LOGS THAT ARE A MINIMUM OF

1½" x 1½" x 18" (MIN) WOODEN STAKE

CENTER STAKE IN CONTROL LOG

1½" x 1½" x 18" (MIN) WOODEN STAKE

4' MAX FOR TRENCHED SCLs

SC-2

1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.

2. SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.

3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS,

4. SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.

5. IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING, COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.

6. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.

7. FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.

SEDIMENT CONTROL LOG MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE, INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION, INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.

5. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION.COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SCL-6

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EROSION, AND PERFORM NECESSARY MAINTENANCE.

EC-6

EROSION CONTROL BLANKET MAINTENANCE NOTES

SCL-5

-AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.

SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.

SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE

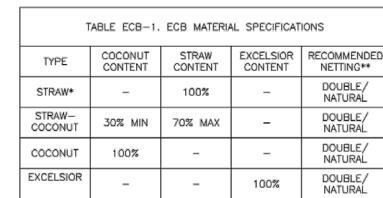
5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE

7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs

8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.

9, ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBS SHALL BE RESEEDED AND MULCHED.

DIFFERENT FROM THOSE SHOWN HERE.



SCL-3. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

AT PERIMETER OF

LOG JOINTS SCL-2. COMPOST SEDIMENT CONTROL LOG (WEIGHTED)

Rolled Erosion Control Products (RECP)

12" OVERLAP ---

I CENTER (TYI-

BLOWN/PLACED FILTER

MEDIA OR SOIL

COMPOST SEDIMENT CONTROL LOG (WEIGHTED)

SCL-4

DIVERSION DITCH

TYPICALLY AT TOP OF

ANCHOR

SLOPES

TRENCH OR JOINT, TYP.

9" DIAMETER (MIN) SEDIMENT CONTROL LOG

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PERIMETER ANCHOR

ECB-3. OUTSIDE OF DRAINAGEWAY

STAKING PATTERNS BY ECB TYPE

STAKING PATTERNS BY SLOPE OR CHANNEL TYPE

✓ STAGGER OVERLAPS

OVERLAPPING JOINT

STAKING PATTERN PER

MANUFACTURER SPEC. OR PATTERN BASED ON ECB AND/OR SLOPE

COCONUT OR EXCELSIOR

TYPE (SEE STAKING PATTERN DETAIL)

EC-6

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EROSION CONTROL BLANKET INSTALLATION NOTES 1. SEE PLAN VIEW FOR: -LOCATION OF ECB. -TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR).

2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH

3. IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING.

4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL

6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH

10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF

ABLE ECB-1.	ECB MATERIA	AL SPECIFICAT	IONS
COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
-	100%	-	DOUBLE/ NATURAL
30% MIN	70% MAX	-	DOUBLE/ NATURAL
100%	-	-	DOUBLE/ NATURAL
_	-	100%	DOUBLE/ NATURAL
	COCONUT CONTENT - 30% MIN 100%	COCONUT STRAW CONTENT - 100% 30% MIN 70% MAX 100%	CONTENT CONTENT CONTENT - 100%

*STRAW ECBs MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNEL.
**ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS

Rolled Erosion Control Products (RECP)

Rolled Erosion Control Products (RECP)

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION, INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY

MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS

POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.

5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED. RESEEDED AND MULCHED AND THE ECB REINSTALLED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

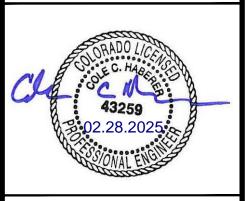
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Date:	Description:		
08.05.24	Submittal #1		
10.29.24	Submittal #2		
12.13.24	Submittal #3		
01.17.25	Submittal #4		
02.07.25	Submittal #5		
02.28.25	FINAL		
	_		
	Date: 08.05.24 10.29.24 12.13.24 01.17.25 02.07.25		

Project No: 24_06 Drawn By: GJB Checked By: CCH

Date Issued: 26.02.2025 Sheet Name:

EC DETAILS (3) Number:

RECP-6

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TYPE OF ECB.

PERIMETER ANCHOR TRENCH, TYP.

SUBGRADE STAKING PATTERN PER MANUFACTURER SPEC. OR PATTERN

BASED ON ECB AND/OR CHANNEL TYPE (SEE STAKING

ECB-2. SMALL DITCH OR DRAINAGEWAY

INDICATED IN PLAN VIEW

ECB SHALL EXTEND TO THE

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LOW FLOW CHANNEL

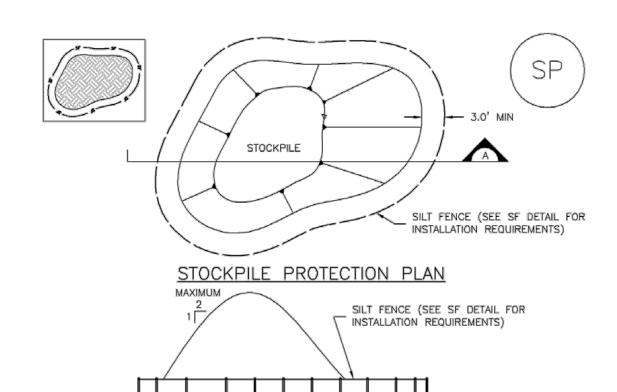
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SP-5

MM-2



SP-1. STOCKPILE PROTECTION

SECTION A

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF STOCKPILES. -TYPE OF STOCKPILE PROTECTION.

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2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.

3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).

4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE

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STOCKPILE PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.

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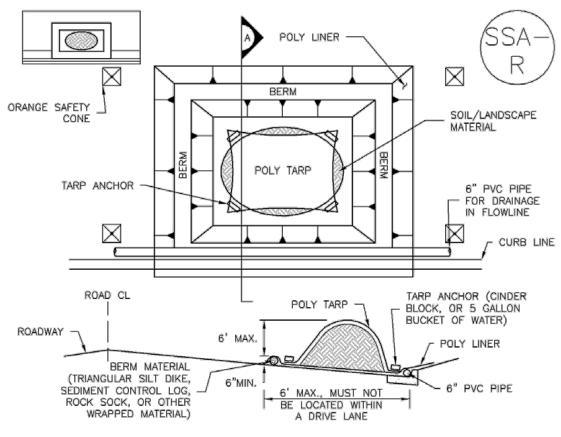
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5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE

(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN



SP-2. MATERIALS STAGING IN ROADWAY

MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES

1. SEE PLAN VIEW FOR

UNDER THE BASE LINER.

-LOCATION OF MATERIAL STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF

3. MATERIALS MUST BE STATIONED ON THE POLY LINER. ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.

4. POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY. 5. SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING

6. FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.

7. THIS FEATURE CAN BE USED FOR:

-WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED. -OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

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MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS 5. CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

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NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM AURORA, COLORADO)

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No.	Date:	Description:
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6	02.28.25	FINAL

Project No: 24_06 Drawn By: GJB

Checked By: CCH Date Issued: 26.02.2025

EC DETAILS (4)

Sheet Name:

Number:

SEEDING MIX MATRIX:

SEE SEEDING NOTES ON EROSION CONTROL PLAN FOR APPLICABLE TIMING FOR INSTALLATION.

Species	Variety	Percent of Mix	PLS lbs/Acre (Drilled Seeding)
Blue grama	Lovington	20	0.6
Sandberg bluegrass		10	0.3
Western wheatgrass	Arriba	25	4.0
Green needlegrass	Lodorm	20	2.0
Buffalograss	Texoka	10	1.7
Sideoats gramma	Vaughn	15	1.0
TOTAL			
TOTAL		100%	10.0 lbs/acre

TEMPORARY VEGETATIVE COVER CONSISTING OF THE ATTACHED SEED MIX MUST BE DRILL SEEDED 10LBS PER PURE LIVE SEED PER ACRE. MULCH CONSISTING OF STRAW, APPLIED AT A RATE OF 2.0-2.5 TONS PER ACRE AND CRIMPED MUST BE USED TO STABILIZE THE EXPOSED SURFACE. SOIL AMENDMENTS CONSISTING OF COMPOST MUST BE INCORPORATED INTO THE SOIL TO A DEPTH OF 6 INCHES BELOW GRADE AT 4.0 CUBIC YARDS PER 1,0000 SQUARE FEET. PERMANENT VEGETATIVE COVER CONSISTING OF SAME SEED MIX ABOVE MUST BE DRILL SEEDED AT 10 POUNDS PURE LIVE SEED PER ACRE.

Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

Protect seeded areas from construction equipment and vehicle access.