

SITE CONSTRUCTION DRAWINGS FOR JEFFERSON OFFICE PARK GOLDEN, COLORADO

Project Team

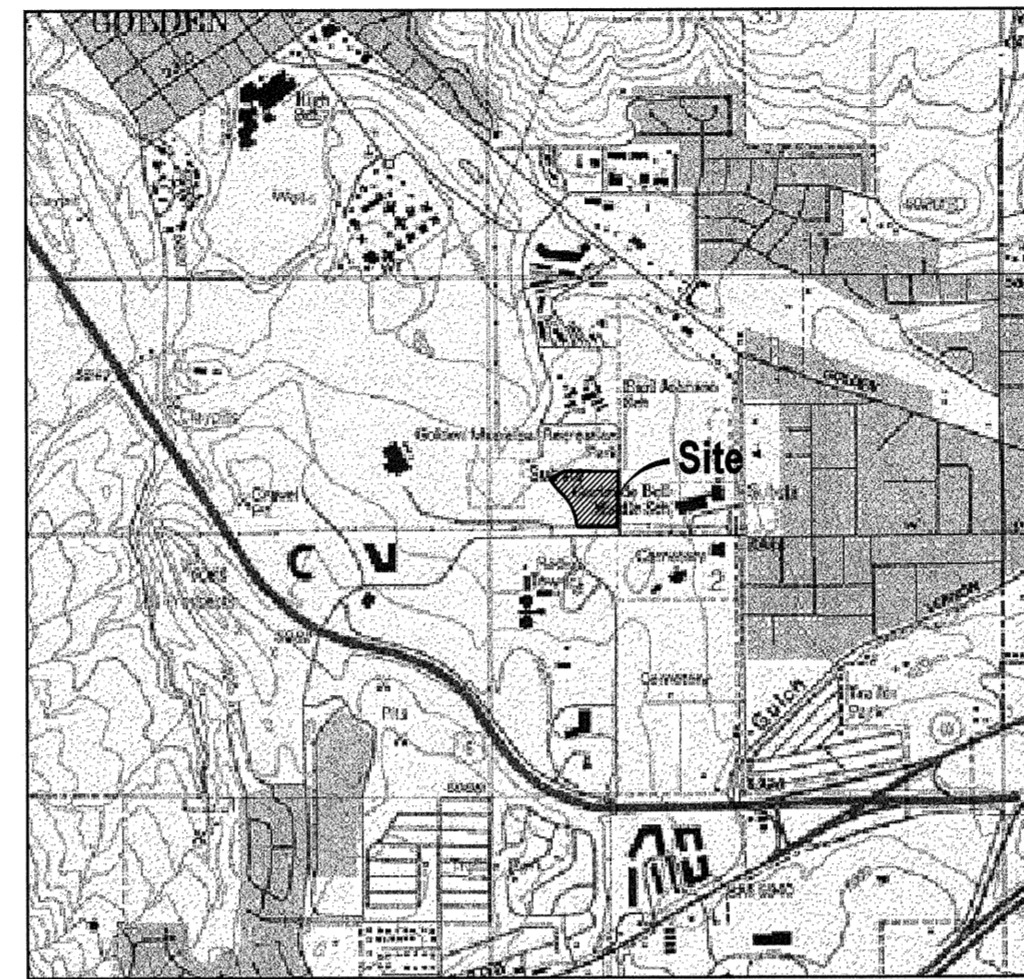
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| OWNER: JEFFERSON OFFICE PARK LLLP 12 WARD COURT LAKEWOOD, COLORADO 80228 (303) 723-5510 ATTN: DOUG FORRY doug4e@comcast.net | LANDSCAPE ARCHITECT: GROUND ENGINEERING CONSULTANTS 41 INVERNESS DRIVE EAST ENGLEWOOD, COLORADO 80112 303-289-1889 ATTN: MICHAEL HARTY michaelh@groundeng.com |
| ARCHITECT: HAEZEBROUCK AND ASSOCIATES, PC 1543 SUNSET RIDGE ROAD HIGHLANDS RANCH, CO 80128 303-470-7872 303-470-7874 FAX ATTN: JOE HAEZEBROUCK j.f.haezebrouck@comcast.net | CIVIL ENGINEER: REAMS & PATTERSON, INC. 2950 SOUTH JAMAICA COURT, #311 AURORA, COLORADO 80014 (303) 745-4747 (303) 745-0119 FAX ATTN: STEVE REAMS ReamsEng@aol.com |

General Notes

- All materials, workmanship, and construction of public improvements shall meet or exceed the standards and specifications set forth in the City of Golden Standards and Specifications, and applicable state and federal regulations. Where there is conflict between these plans and the specifications, or any applicable standards, the higher quality standard shall apply. All work shall be inspected and approved by the City.
- All references to any published standards shall refer to the latest revision of said standard, unless specifically stated otherwise.
- The Consultant Engineer shall provide, on the cover of the plan set, the location and description of the nearest survey benchmark for the project as well as the basis of bearings.
- The Contractor shall have one (1) signed copy of the approved plans, one (1) copy of the appropriate standards and specifications, and a copy of any permits and/or agreements needed for the job, onsite at all times.
- The Contractor is specifically cautioned that the location and/or elevation of existing utilities, as shown on these plans, is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. The Contractor must call the local utility location center at least forty-eight (48) hours before any excavation or request to exact field locations of the utilities. Prior to construction, the Contractor shall verify pertinent locations and elevations, especially at connection points and at potential utility conflicts. It shall be the responsibility of the Contractor to relocate all existing utilities that conflict with the proposed improvements shown on these plans.
- The Contractor shall be responsible for obtaining all necessary permits for applicable agencies. Any earth disturbing activity or construction on any and all public improvements will not be permitted until the recordation of plat(s) and/or easements, and a preconstruction meeting. The Developer, Engineer or Contractor, shall schedule a preconstruction meeting with the City at least forty-eight (48) hours prior to the start of construction. Approved plans shall be distributed at the preconstruction meeting.
- The Contractor is responsible for the timely notification of and shall coordinate work in all work areas with the appropriate State, County, City, or local agencies.
- The Contractor shall coordinate and cooperate with the City, and all utility companies involved, with regard to relocations or adjustments of existing utilities during construction, and to assure that the work is accomplished in a timely fashion and with a minimum disruption of service. The Contractor shall be responsible for contacting all parties affected by any disruption of utility service.
- The Contractor shall be responsible for all aspects of safety including but not limited to, excavation, trenching, shoring, traffic control, and security.
- The Contractor shall submit a Traffic Control Plan, in accordance with MUTCD, to the appropriate right-of-way authority (City, County or State), for approval, prior to any construction activities within, or affecting, the right-of-way. The Contractor shall be responsible for providing any and all traffic control devices as may be required by the construction activities.
- The contractor is responsible for providing all labor and materials necessary for the completion of the intended improvements, shown on these drawings, or designated to be provided, installed, or constructed, unless specifically noted otherwise.
- If, during the construction process, conditions are encountered which could indicate a situation that is not identified in the plans or specifications, the Contractor shall contact the City immediately.
- The Contractor shall be responsible for keeping roadways free and clear of all construction debris and dirt tracked from the site.
- Dimensions for layout and construction are not to be scaled from any drawing. If pertinent dimensions are not shown, contact the Consultant Engineer for clarification, and annotate the dimension on the as-built record drawings.
- The Contractor shall comply with all terms and conditions of the project's Colorado Permit for Storm Water Discharge, the Storm Water Management Plan and the Erosion Control Plan, where applicable.
- All structural erosion control measures shall be installed, at the limits of construction, prior to any other ground-disturbing activity. All erosion control measures shall be maintained in good repair by the Contractor, until such time as the entire disturbed area is stabilized with hard surface landscaping. The City maintains the right to require additional erosion control measures if necessary during construction.
- The contractor shall sequence installation of utilities in such a manner as to minimize potential utility conflicts. In general, storm sewer and sanitary sewer should be constructed prior to installation of water lines, dry utilities, curb and gutter, and paving.
- All existing structures, fences, signs, and improvements destroyed, damaged, or removed due to the construction of this project shall be replaced or restored in like and kind at the Contractor's expense, unless otherwise indicated on the drawings.
- The Contractor shall be responsible for obtaining a disposal site for all unusable material removed from the project.
- All pavement marking required from the construction shall be the responsibility of the Contractor.
- There shall be no site construction activities on Saturdays, unless specifically approved by the City, and no site construction activities on Sundays or Holidays, unless there is prior written approval by the Public Works Director.
- The Contractor shall be responsible for recording as-built information on a set of record drawings kept on the construction site, and available to the City at all times.

Erosion Control Notes

- The Contractor shall ensure storm water quality best management practices shall be implemented to minimize soil erosion, sedimentation, increased pollutant loads and changed water flow characteristics resulting from land disturbing activity, to the maximum extent practicable, so as to minimize pollution of receiving waters.
- The Contractor is responsible for implementing and maintaining erosion and sediment control measures at all times before, during and after construction to prevent damaging flows on the site and adjacent property.
- To the extent practicable, erosion and sediment control measures shall be installed prior to grading activities. Following initial grading activities, erosion and sediment control devices shall be placed as construction sequencing and access dictates.
- At a minimum, all best management practices (BMPs) outlined on the drainage and storm water management plan must be correctly installed and functioning, in accordance with the City of Golden Storm Water Quality Control Design Guidance Manual. At all times during the project construction, all temporary and permanent erosion and sediment control measures shall be maintained and repaired as needed to prevent accelerated erosion and sedimentation, or as requested by the City, until a time when the City determines they are no longer needed.
- Natural vegetation shall be retained and protected wherever possible. Exposure of soil to water and wind by removal or disturbance of vegetation shall be limited to the area required for immediate construction operations and for the shortest practicable period of time.
- All topsoil, where physically practicable, shall be salvaged and on topsoil shall be removed from the site except as set forth in the approved plans. Topsoil and overburden shall be segregated and stockpiled separately as designated by the Developer. Topsoil and overburden shall be redistributed within the graded area after a rough grading to provide a suitable base for the areas that will be seeded and planted.
- Any construction debris or mud tracking in the public right-of-way resulting from the construction shall be removed immediately by the Contractor.
- Fugitive dust emissions resulting from grading activities and/or wind shall be controlled using the best available technology. A water truck shall be used within twenty-four (24) hours of the City's request for dust control on site.
- Runoff from stockpiles shall be controlled to prevent erosion and resultant sedimentation of receiving waters or adjacent property. Soils stockpiled for more than thirty (30) days shall be seeded with a temporary or permanent grass cover within fourteen (14) days after completion of the stockpile construction.
- If stockpiles are located within close proximity to a drainage way, additional sediment control measures, such as temporary diversion dike or silt fence, shall be provided.
- Permanent soil stabilization measures shall be applied within fourteen (14) days to disturbed areas in which final grade is completed.
- Temporary soil stabilization measures shall be applied within fourteen (14) days, to areas that are not at final grade but will remain dormant (undisturbed) for longer than thirty (30) days, per the Urban Drainage and Flood Control District Volume 3.
- Hydraulic seeding may be substituted for drilling only where slopes steeper than three to one (3:1) or where access limitations exist. When hydraulic seeding should be done as a separate operation immediately following seeding, to prevent seeds from being encapsulated in the mulch. Hydraulic mulch must contain a tackifying agent at a rate of fifteen hundred (1500) pounds per acre (City of Golden Storm Water Quality Control Design Guidance Manual, Appendix C.3.2).
- For slopes greater than three to one (3:1) and other special situations, erosion control blankets, anchored with staples, may be required instead of mulch.
- Seeding rates for broadcast application should be increased at least twice that of drilled rates.
- Straw mulch rates should be a minimum of two (2) tons/acre and should be crimped, or anchored with the aid of tackifiers.
- Inspection and Maintenance Procedures. Inspections shall be performed every fourteen (14) days, or following a storm water event. An inspection form (provided by the city) shall be completed for each inspection performed. The completed inspection form shall be provided to the city. Inspection Reports must be kept on site. Maintenance and repairs shall be performed as soon as possible on items or areas identified in the inspection report. Maintenance should be performed as indicated in the City of Golden Stormwater Quality Control Design Guidance Manual, per manufacturer's specifications, or other sources determined to be acceptable.
- All erosion control measures must remain in a functional condition until a viable vegetative cover has been established.
- A viable vegetative cover should be established within one (1) year on all disturbed areas and soil stockpiles not otherwise permanently stabilized. Vegetation is not considered established until a ground cover is achieved which, in the opinion of the City, is sufficiently mature to control soil erosion and can survive severe weather conditions. "Established" is defined as a minimum of seventy (70) percent cover of desired species.
- The City of Golden may modify the erosion and sediment control plan as field conditions warrant.



Vicinity Map
From Golden USGS 7.5 quadrangle; 1" = 2,000'

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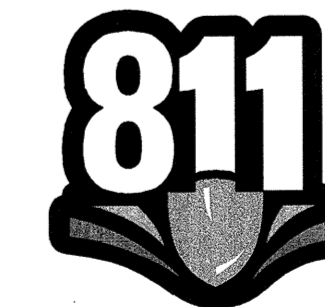
Sanitary Sewer Notes

- All sanitary sewer system plans and construction shall conform with the City of Golden Specifications and Standards, and are subject to construction observation by City representatives. Copies of the City Specifications may be obtained from the City. Construction will not be permitted until the recordation of plat(s) and/or easements, and a preconstruction meeting. The Developer, Engineer or Contractor, shall schedule a preconstruction meeting with the City at least forty-eight (48) hours prior to the start of construction. Approved plans shall be distributed at the preconstruction meeting.
- The pipe for sanitary sewer mains shall be in accordance with ASTM D-3034 SDR 35 PVC pipe in paved rights-of-way and easements, and AWWA C 900, Class 150 in unpaved easements.
- Initial acceptance of the new sanitary sewer mains will not be considered until all requirements for acceptance have been met, including
 - Sanitary sewer trench compaction test results, and,
 - Record Drawings,
 - Video Record after paving is completed.
- The sanitary sewer system will be tested in accordance with the City specifications:
 - Lamp 100% of the new system,
 - Low pressure air test 100% of the new system
 - Deflection test 100% of the new system.
- Manhole rims shall be set at an elevation relative to the pavement, in accordance with the appropriate City, County, or State Highway Department Standards. Whether or not the manhole is in a paved or unpaved area, a minimum of four (4) inches of concrete riser rings shall be used to adjust rim elevations to final grade. The maximum acceptable vertical adjustment utilizing riser rings is twelve (12) inches.
- Existing pipe at the point of connection shall not be "broken out" and no service connections will be made until the new system is accepted.
- The Contractor shall verify existing manhole inverts at proposed points of connection, prior to construction staking.
- The Contractor shall take care to properly shape all manhole inverts and benches in accordance with City Specifications. Manhole inverts shall be constructed with a smooth trowel or stone finish, and benches finished with a light broom, non-skid finish.
- The Contractor shall coordinate all utility tie-ins and shut downs with the City and affected residences and businesses, including timely posting of adequate notification to all affected parties.
- Support all existing utility lines during the performance of the work with adequate structural members to avoid any movement or settlement of the lines being protected.
- The City is not a guarantor of the construction Contractors' obligations and performance of contract.
- Observations of work in progress and on-site visits are not to be construed as a guarantee by the City of the Contractors' performance.
- The City is not responsible for safety in, on, or about the Project site, nor for compliance by the appropriate party of any regulations relating thereto.
- The City exercises no control of the safety or adequacy of any equipment, building components, scaffolding forms, or any other work aids used in or about the project, or in the superintending of the same.
- All new mains must be jetted prior to initial acceptance and may be required again prior to final conveyance and acceptance by the City. Costs of jetting will be the responsibility of the Contractor. The Contractor will be responsible for all pumping associated with the line jetting.

Water Notes

- All water lines and system plans and construction, shall conform to the City of Golden's Standards and Specifications are subject to construction observation by City representatives. Copies of the City Standards and Specifications may be obtained from the City. Construction will not be permitted until the recordation of plat(s) and/or easements, and a preconstruction meeting. The Developer, Engineer or Contractor, shall schedule a preconstruction meeting with the City at least forty-eight (48) hours prior to the start of construction. Approved plans shall be distributed at the preconstruction meeting.
- Theoretical static water pressures are estimated to range from 134 psi at USGS Elevation 5880 to 104 psi at USGS elevation 5950 based upon a hydraulic gradient of USGS Elevation 6190. The City has provided only the hydraulic gradient elevation. This hydraulic gradient, which was provided at the time of plan review, may change in the future as overall water system operations warrant.
- The pipe specified by the Developer or Engineer for the water lines in the project is Class 200 AWWA C-900 PVC pipe. All water lines shall have a minimum of four and one-half (4-1/2) feet of cover and be located a minimum of ten (10) feet from the sanitary sewer, and three (3) feet from the edge of concrete curb and gutter pan.
- All water line valves shall be set at the intersection of the extended property line and water line except where that point falls in the flow line of a concrete cross pan. In that case, the valve shall be located so that surface drainage does not infiltrate the valve box. Valve boxes shall be set at an elevation in accordance with City paving requirements.
- Polyethylene wrapping shall be installed around all ductile iron pipe fittings, valves, fire hydrant barrels, and rods and clamps. The polyethylene shall have a minimum thickness of eight (8) mils.
- Concrete for all structures shall have a minimum of three thousand (3000) psi strength at twenty-eight (28) days.
- The Contractor shall coordinate all utility tie-ins and shut downs with the City and affected residences and businesses, including timely posting of adequate notification to all affected parties.
- The Contractor shall not operate any existing utility valves.
- Support all existing utility lines during the performance of the work with adequate structural members to avoid any movement or settlement of the lines being protected.
- Initial acceptance of the new water lines is contingent upon receiving copies of:
 - Water line trench compaction test results,
 - Record drawings, and
 - Golden Environmental Services' tests. (Chlorine and clear water).
- The new water system will be tested in accordance with Section 12 of the City specifications.
- The City is not a guarantor of the construction Contractors' obligations and performance of contract.
- Observations of work in progress and on-site visits are not to be construed as a guarantee by the City of the Contractors' performance.
- The City is not responsible for safety in, on, or about the Project site, nor for compliance by the appropriate party of any regulations relating thereto.
- The City exercises no control of the safety or adequacy of any equipment, building components, scaffolding forms, or any other work aids used in or about the project, or in the superintending of the same.

**CONTRACTOR/OWNER COPY
KEEP ON JOB SITE
AT ALL TIMES**



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

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

BENCH MARK:

S 406 (1964), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ulysses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ulysses Street, 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5899.95 feet, NGVD 29 datum.

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Reams & Patterson, Inc.
Consulting Engineers and Land Surveyors
2950 South Jamaica Court, Suite 305
Aurora, Colorado 80014
(303) 745-4747

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| CITY OF GOLDEN APPROVALS | |
| THESE PLANS HAVE BEEN APPROVED BY THE CITY OF GOLDEN TO BE IN GENERAL CONFORMANCE WITH THE CITY OF GOLDEN'S "WATER AND SANITARY SEWER SPECIFICATIONS" AND/OR OTHER CITY-APPROVED APPLICABLE STANDARDS. | |
| APPROVED BY: | |
| PUBLIC WORKS | DATE |
| APPROVED BY: | |
| FIRE DEPARTMENT | DATE |

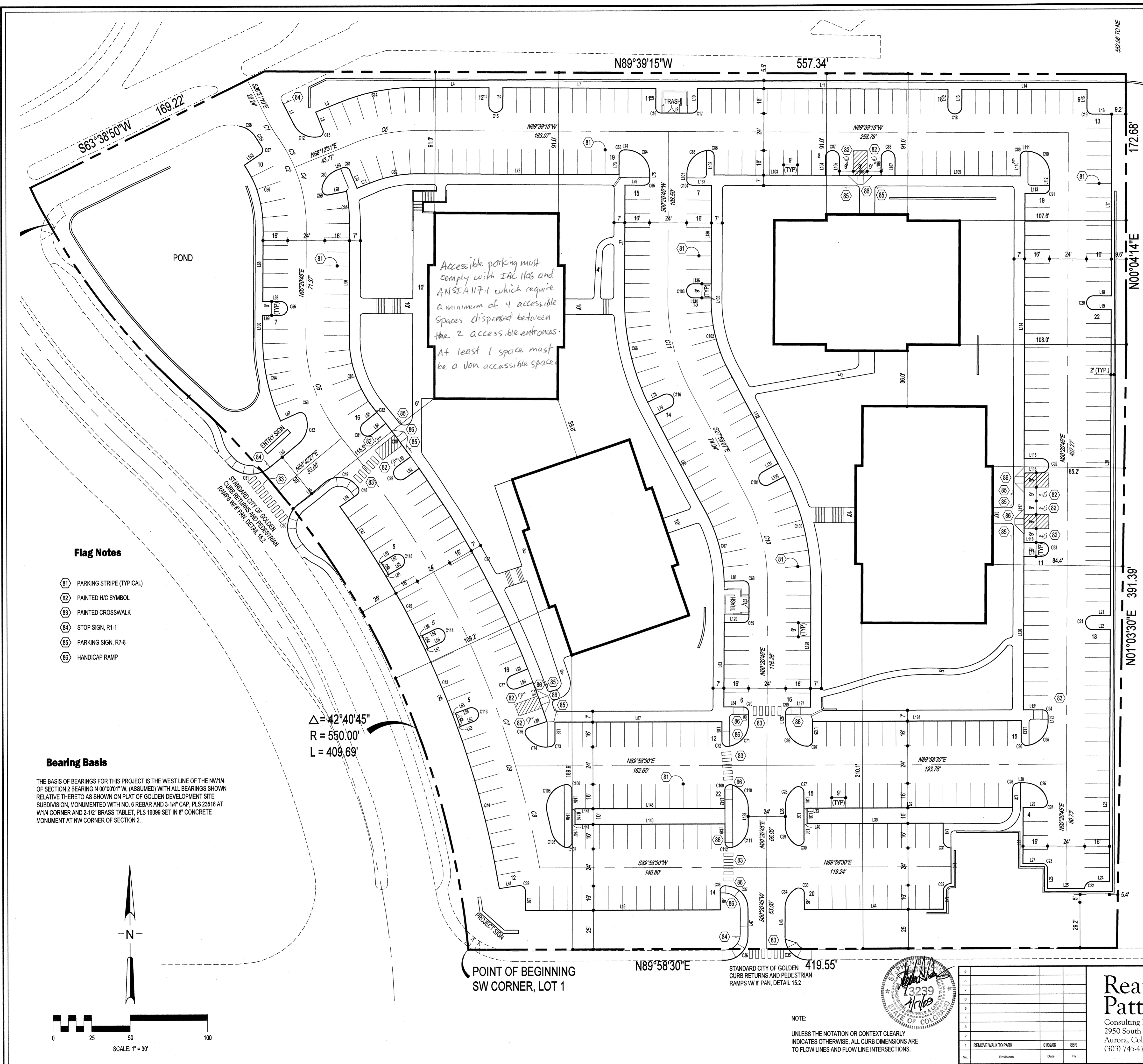
City of Golden Permit # _____
Departmental Approval
Planning _____ Date _____
Engineering _____ Date _____
Stormwater _____ Date _____
Env/Bkfw _____ Date _____
Fire Dept _____ Date _____
Building _____ Date 4/28/09
Other _____ Date _____

**CITY OF GOLDEN
APPROVED**

DATE 4/28/09
BY [Signature]
SUBJECT TO INSPECTIONS AND COMPLIANCE TO ALL RELEVANT PROVISIONS OF THE CITY OF GOLDEN MUNICIPAL CODE.

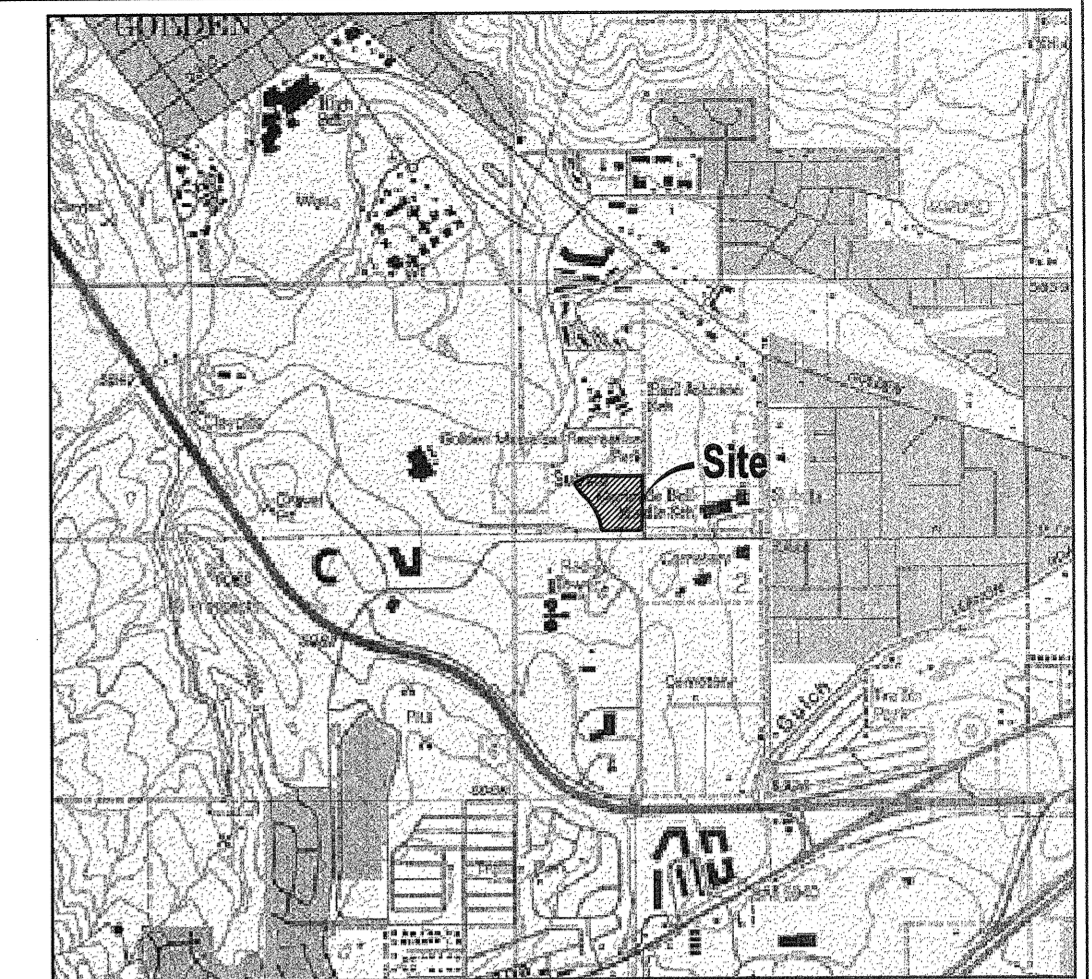
City of Golden
Public Works Department
 No Exception Taken
 Make Corrections Noted
 Rejected
 Revise and Re-submit
 Final Accept. Sub. to Field Inspection

*Approved 4/23/09 with redlined comments
by SBR
See sheets 10 & 11 for redlined notes*

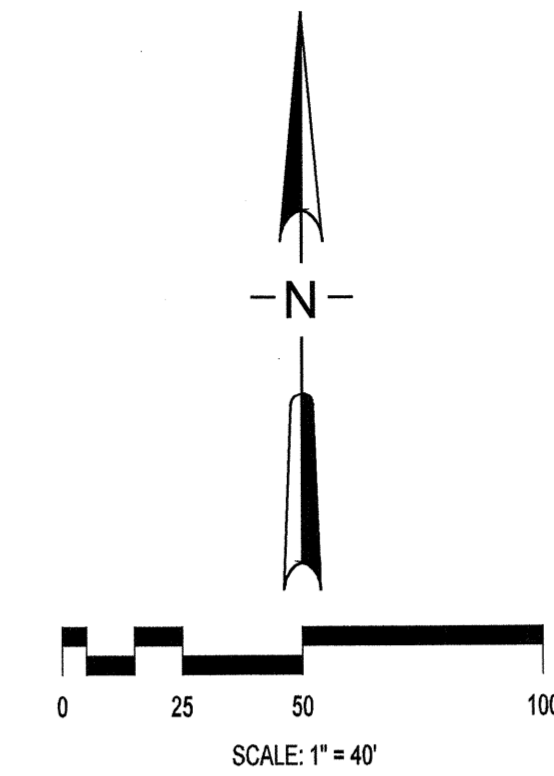


| CURVE TABLE | | | | | | | | | | | |
|-------------|------------|--------|--------|----------|-------------|------------|-------|------------|--------|--------|----------|
| CURVE | DELTA | RADIUS | LENGTH | TANGENT | CHORD BRG | CHORD DIST | CURVE | DELTA | RADIUS | LENGTH | TANGENT |
| C1 | 8°33'16" | 114.00 | 17.02 | 8.53 | S30°37'49"E | 17.01 | C61 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C2 | 8°33'16" | 98.50 | 14.50 | 31.30 | N17°16'51"W | 58.65 | C62 | 22°08'14" | 73.50 | 28.40 | 14.88 |
| C3 | 12°14'33" | 98.50 | 21.05 | 10.56 | N28°47'09"W | 21.01 | C63 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C4 | 23°02'36" | 98.50 | 38.95 | 20.08 | N11°09'38"W | 39.29 | C64 | 90°00'00" | 15.00 | 23.95 | 15.00 |
| C5 | 22°58'14" | 101.50 | 39.23 | 19.86 | S79°15'38"W | 38.97 | C65 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C6 | 30°38'18" | 101.50 | 70.22 | 38.58 | S19°29'24"E | 68.93 | C66 | 29°43'10" | 150.00 | 68.88 | 34.93 |
| C7 | 22°53'48" | 602.99 | 240.97 | 122.11 | N27°50'39"W | 239.37 | C67 | 27°01'41" | 97.00 | 46.78 | 23.31 |
| C8 | 0°26'37" | 602.99 | 67.81 | 33.94 | N13°10'27"W | 67.78 | C68 | 91°17'10" | 3.50 | 5.88 | 3.88 |
| C9 | 20°20'25" | 602.99 | 308.78 | 157.86 | N24°37'21"W | 305.42 | C69 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C10 | 28°18'52" | 125.00 | 61.77 | 31.53 | N19°48'41"W | 61.15 | C70 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C11 | 28°18'52" | 125.00 | 61.77 | 31.53 | S19°48'41"E | 61.15 | C71 | 85°18'41" | 15.00 | 21.80 | 13.34 |
| C12 | 12°14'33" | 150.00 | 100.89 | 11.98 | S20°28'09"E | 17.53 | C72 | 89°21'04" | 3.50 | 5.89 | 3.91 |
| C13 | 10°15'14" | 3.50 | 8.22 | 4.31 | N29°09'08"E | 5.44 | C73 | 78°51'12" | 3.50 | 4.82 | 2.88 |
| C14 | 22°04'14" | 125.00 | 50.03 | 25.33 | S79°15'38"W | 49.72 | C74 | 17°14'23" | 15.00 | 18.74 | 10.81 |
| C15 | 18°00'00" | 4.50 | 14.14 | INFINITE | S89°39'15"E | 9.00 | C75 | 101°14'25" | 3.50 | 6.18 | 4.26 |
| C16 | 90°00'00" | 3.50 | 5.50 | 3.50 | S44°39'15"E | 4.95 | C76 | 2°25'20" | 630.99 | 26.68 | 13.34 |
| C17 | 90°00'00" | 3.50 | 5.50 | 3.50 | S44°39'15"E | 4.95 | C77 | 179°09'41" | 4.53 | 14.17 | 61.51 |
| C18 | 90°00'00" | 4.50 | 14.14 | INFINITE | S89°39'15"E | 9.00 | C78 | 13°24'57" | 630.99 | 147.75 | 73.21 |
| C19 | 90°00'00" | 3.50 | 5.50 | 3.50 | S44°39'15"E | 4.95 | C79 | 179°09'41" | 4.53 | 14.17 | 61.51 |
| C20 | 16°52'09" | 4.50 | 14.14 | INFINITE | S00°20'45"W | 9.00 | C80 | 2°25'20" | 630.99 | 26.68 | 13.34 |
| C21 | 18°00'00" | 4.50 | 14.14 | INFINITE | S00°20'45"W | 9.00 | C81 | 179°09'41" | 4.53 | 14.17 | 61.51 |
| C22 | 90°00'00" | 5.00 | 7.85 | 5.00 | S45°20'45"W | 7.07 | C82 | 0°08'34" | 630.99 | 1.75 | 0.88 |
| C23 | 90°00'00" | 3.50 | 5.50 | 3.50 | N44°39'15"W | 4.95 | C83 | 39°38'18" | 73.50 | 50.85 | 26.49 |
| C24 | 10°15'14" | 3.50 | 8.23 | 4.33 | N29°09'08"E | 5.44 | C84 | 19°24'50" | 125.00 | 22.99 | 11.53 |
| C25 | 18°22'39" | 15.00 | 20.52 | 12.23 | N20°45'00"W | 18.86 | C85 | 84°42'38" | 15.00 | 22.44 | 13.92 |
| C26 | 90°00'00" | 3.50 | 5.50 | 3.50 | S44°39'15"W | 4.95 | C86 | 94°17'28" | 3.50 | 5.78 | 3.77 |
| C27 | 12°14'33" | 3.50 | 7.80 | 6.65 | N22°18'22"W | 6.19 | C87 | 180°00'00" | 4.50 | 14.14 | INFINITE |
| C28 | 55°09'11" | 15.00 | 14.43 | 7.83 | S27°54'45"W | 13.88 | C88 | 180°00'00" | 4.50 | 14.14 | INFINITE |
| C29 | 90°20'38" | 15.00 | 14.75 | 8.03 | S27°49'33"E | 14.16 | C89 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C30 | 12°14'33" | 3.50 | 7.58 | 6.59 | N15°59'19"E | 6.18 | C90 | 90°00'00" | 15.00 | 23.95 | 15.00 |
| C31 | 90°00'00" | 5.00 | 7.85 | 5.00 | S45°20'45"E | 7.07 | C91 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C32 | 90°00'00" | 5.00 | 7.85 | 5.00 | S45°20'45"E | 7.07 | C92 | 180°00'00" | 4.50 | 14.14 | INFINITE |
| C33 | 12°14'33" | 3.50 | 7.45 | 6.31 | N11°01'00"W | 6.12 | C93 | 180°00'00" | 4.50 | 14.14 | INFINITE |
| C34 | 57°40'40" | 15.00 | 15.10 | 8.28 | S29°11'05"W | 14.47 | C94 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C35 | 90°28'22" | 15.00 | 23.88 | 15.12 | S44°52'28"E | 21.29 | C95 | 84°01'39" | 15.00 | 22.00 | 13.51 |
| C36 | 80°37'15" | 15.00 | 23.48 | 14.90 | N48°08'23"E | 21.14 | C96 | 95°38'10" | 3.50 | 5.84 | 3.84 |
| C37 | 87°34'22" | 15.00 | 22.83 | 14.38 | N43°28'28"E | 20.78 | C97 | 95°38'10" | 3.50 | 5.84 | 3.84 |
| C38 | 92°41'49" | 3.50 | 5.87 | 3.98 | S42°22'30"W | 5.07 | C98 | 84°48'08" | 15.00 | 22.19 | 13.89 |
| C39 | 89°20'20" | 3.50 | 5.89 | 4.10 | N40°22'07"E | 5.32 | C99 | 50°10'00" | 3.50 | 5.50 | 3.50 |
| C40 | 26°54'16" | 574.99 | 270.00 | 137.54 | N22°30'38"W | 267.53 | C100 | 27°15'28" | 183.00 | 72.79 | 37.10 |
| C41 | 10°45'43" | 574.99 | 108.00 | 54.16 | N14°28'21"W | 107.84 | C101 | 178°58'38" | 4.54 | 14.18 | 49.24 |
| C42 | 0°53'49" | 574.99 | 9.00 | 4.50 | N20°16'07"W | 9.00 | C102 | 28°18'52" | 97.00 | 47.94 | 24.47 |
| C43 | 19°04'11" | 135.00 | 45.20 | 22.81 | S22°57'33"E | 44.99 | C103 | 180°00'00" | 4.50 | 14.14 | INFINITE |
| C44 | 0°53'49" | 574.99 | 9.00 | 4.50 | N20°16'07"W | 9.00 | C104 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C45 | 42°02'07" | 574.99 | 45.00 | 23.18 | N20°20'20"W | 44.89 | C105 | 82°31'18" | 15.00 | 23.22 | 13.67 |
| C46 | 0°53'49" | 574.99 | 9.00 | 4.50 | N20°16'07"W | 9.00 | C106 | 100°28'41" | 3.50 | 6.14 | 4.22 |
| C47 | 42°02'07" | 574.99 | 45.00 | 23.18 | N20°20'20"W | 44.89 | C107 | 114°38'58" | 3.50 | 7.00 | 5.45 |
| C48 | 89°58'13" | 5.00 | 5.49 | 3.50 | N00°04'14"E | 4.95 | C108 | 53°24'11" | 15.00 | 13.98 | 7.54 |
| C49 | 82°24'34" | 15.00 | 24.45 | 15.82 | N20°38'18"W | 21.83 | C109 | 107°20'49" | 3.50 | 6.66 | 4.76 |
| C50 | 85°52'12" | 20.00 | 29.97 | 18.61 | S07°46'20"W | 27.25 | C110 | 73°01'28" | 15.00 | 19.12 | 11.10 |
| C51 | 89°58'45" | 20.00 | 30.38 | 18.91 | S89°44'45"E | 27.53 | C111 | 71°12'35" | 15.00 | 18.92 | 10.87 |
| C52 | 74°02'22" | 15.00 | 19.38 | 11.31 | N13°41'48"E | 18.58 | C112 | 107°44'10" | 3.50 | 6.58 | 4.80 |
| C53 | 91°00'20" | 3.50 | 5.58 | 3.58 | N89°40'00"W | 4.99 | C113 | 180°53'49" | 4.59 | 14.48 | 58.39 |
| C54 | 24°39'59" | 129.50 | 65.75 | 38.31 | S11°59'15"E | 55.32 | C114 | 180°53'49" | 4.59 | 14.48 | 58.39 |
| C55 | 180°00'00" | 4.50 | 14.14 | INFINITE | S00°20'45"E | 9.00 | C115 | 180°53'49" | 4.59 | 14.48 | 58.39 |
| C56 | 34°18'03" | 70.50 | 42.21 | 21.78 | N11°02'16"E | 41.58 | C116 | 177°24'19" | 4.60 | 14.28 | 203.31 |
| C57 | 90°00'53" | 3.50 | 5.50 | 3.50 | N11°02'16"E | 4.95 | C117 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C58 | 48°01'01" | 15.19 | 12.83 | 6.88 | N25°05'16"W | 12.55 | C118 | 90°00'00" | 3.50 | 5.50 | 3.50 |
| C59 | 107°43'08" | 3.50 | 6.58 | 4.78 | S48°11'31"E | 5.85 | C119 | 87°24'02" | 128.00 | 7.48 | 3.74 |
| C60 | 82°28'28" | 15.00 | 15.85 | 8.76 | S37°55'47"W | 15.13 | | | | | |

| LINE | LENGTH | BEARING | LINE | LENGTH | BEARING | LINE | LENGTH | BEARING |
|------|--------|-------------|------|--------|-------------|------|--------|-------------|
| L1 | 16.12 | S26°58'03"E | L52 | 9.39 | N70°10'47"E | L103 | 72.00 | S89°39'15"E |
| L2 | 12.25 | N21°14'23"W | L53 | 2.00 | S70°10'47"W | L104 | 11.50 | N00°20'45"E |
| L3 | 17.69 | N82°12'31"E | L54 | 9.39 | S69°16'59"W | L105 | 11.50 | S00°20'45"W |
| L4 | 46.84 | S89°39'15"E | L55 | 2.00 | S59°16'59"W | L106 | 11.50 | N00°20'45"E |
| L5 | 11.50 | S00°20'45"W | L56 | 9.39 | S54°17'59"W | L107 | 11.50 | S00°20'45"W |
| L6 | 11.50 | N00°20'45"E | L57 | 2.00 | S44°17'59"W | L108 | 27.00 | S89°39'15"E |
| L7 | 99.00 | S00°20'45"W | L58 | 9.39 | S39°16'59"W | L109 | 81.00 | S89°39'15"E |
| L8 | 12.50 | S00°20'45"W | L59 | 2.00 | S29°16'59"W | L110 | 12.50 | N00°20'45"E |
| L9 | 20.01 | S89°39'15"E | L60 | 9.39 | S24°17'59"W | L111 | 0.64 | S89°39'15"E |
| L10 | 12.50 | N00°20'45"E | L61 | 2.00 | S19°16'59"W | L112 | 6.95 | S00°20'45"W |
| L11 | 162.00 | S89°39'15"E | L62 | 9.39 | S14°17'59"W | L113 | 12.50 | N89°39'15"W |
| L12 | 11.50 | S00°20'45"W | L63 | 2.00 | S09°16'59"W | L114 | 171.00 | S00°20'45"W |
| L13 | 11.50 | N00°20'45"E | L64 | 13.49 | N4°12'13"E | L115 | 11.50 | S89°39'15"E |
| L14 | 81.00 | S89°39'15"E | L65 | 21.41 | S0°42'27"W | L116 | 11.50 | N89°39'15"W |
| L15 | 12.50 | S00°20'45"W | L66 | 24.07 | N5°42'27"E | L117 | 45.00 | S00°20'45"W |
| L16 | 12.50 | S89°39'15"E | L67 | 12.54 | S6°42'48"W | L118 | 11.50 | S89°39'15"E |
| L17 | 117.00 | S00°20'45"W | L68 | 47.80 | N00°20'45"E | L119 | 11.50 | N89°39'15"W |
| L18 | 11.50 | N89°39'15"W | L69 | 4.46 | N68°12'31"E | L120 | 69.00 | S00°20'45"W |
| L19 | 11.50 | S89°39'15"E | L70 | 12.50 | S11°42'29"E | L121 | 12.50 | S89°39'15"E |
| L20 | 198.00 | S00°20'45"W | L71 | 11.41 | N68°12'31"E | L122 | 4.46 | S00°20'45"W |
| L21 | 11.50 | N89°39'15"W | L72 | 131.20 | S89°39'15"E | L123 | 12.45 | N00°10'30"W |
| L22 | 11.50 | S89°39'15"E | L73 | 12.50 | N00°20'45"E | L124 | 135.00 | S89°39'30"W |
| L23 | 162.00 | S00°20'45"W | L74 | 1.37 | S89°39'15"E | L125 | 12.45 | S00°10'30"E |
| L24 | 11.00 | N89°39'15"W | L75 | 4.50 | S00°20'45"W | L126 | 6.75 | N00°20'45"E |
| L25 | 24.00 | N89°39'15"W | L76 | 12.50 | N89°39'15"W | L127 | 12.50 | S89°39'15"E |
| L26 | 12.85 | N00°20'45"E | L77 | 75.50 | S00°20'45"W | L128 | 78.82 | N00°20'45"E |
| L27 | 12.50 | N89°39'15"W | L78 | 11.47 | N64°31'34"E | L129 | 12.50 | S89°39'15"E |
| L28 | 45.00 | N00°20'45"E | L79 | 11.41 | S2°01'53"W | L130 | 11.52 | S53°05'17"W |
| L29 | 12.25 | S89°39'15"E | L80 | 71.24 | S27°58'07"E | L131 | 11.46 | N22°01'53"E |
| L30 | 4.27 | S89°58'30"W | L81 | 12.45 | N89°03'39"E | L132 | 67.57 | N27°58'07"W |
| L31 | 12.50 | S00°10'30"E | L82 | 20.28 | S00°20'45"W | L133 | 1.50 | N00°20'45"E |
| L32 | 133.00 | S89°58'30"W | L83 | 64.00 | S00°20'45"W | L134 | 11.50 | N89°39'15"W |
| L33 | 2.00 | S89°58'30"W | L84 | 12.50 | S89°39'15"E | L135 | 11.50 | S89°39'15"E |
| L34 | 10.48 | S00°10'30"E | L85 | 7.11 | S00°20'45"W | L136 | 83.00 | N00°20'45"E |
| L35 | 12.00 | S00°20'45"W | L86 | 12.43 | N00°10'30"W | L137 | 12.50 | N89°39'15"W |
| L36 | 10.53 | N00°10'30"W | L87 | 108.00 | S89°58'30"W | L138 | 12.00 | S00°20'45"W |
| L37 | 31.01 | N00°10'30"W | L88 | 12.28 | S00°10'30"E | L139 | 11.85 | N00°10'30"W |
| L38 | 10.00 | N00°10'30"W | L89 | 12.48 | N17°58'56"E | L140 | 67.00 | S89°39'30"W |
| L39 | 88.00 | S89°58'30"W | L90 | 7.00 | S89°15'14"W | L141 | 2.00 | S89°39'30"W |
| L40 | 2.00 | S89°58'30"W | L91 | 11.49 | N07°52'30"E | L142 | 11.88 | S00°10'30"E |
| L41 | 11.00 | S00°10'30"E | L92 | 11.49 | S45°17'58"W | L143 | 67.00 | S89°39'30"W |
| L42 | 23.00 | S00°10'30"E | L93 | 11.49 | N54°07'49"E | L144 | 2.00 | S89°39'30"W |
| L43 | 12.00 | S00°10'30"E | L94 | 11.49 | S51°42'19"W | L145 | 12.30 | S00°10'30"E |
| L44 | 80.00 | S89°58'30"W | L95 | 11.49 | N65°20'10"E | L146 | 10.00 | S00°10'30"E |
| L45 | 10.75 | N00°10'30"W | L96 | 18.37 | N00°20'45"E | L147 | 11.49 | N00°10'30"W |
| L46 | 18.10 | S00°20'45"W | L97 | | | | | |



Vicinity Map
From Golden USGS 7.5' quadrangle; 1" = 2,000'



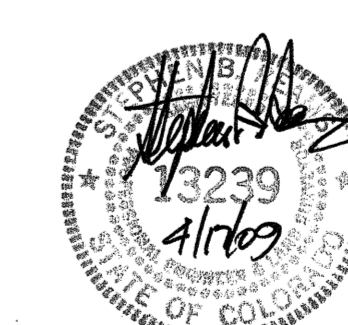
Initial Erosion Control

1. Install perimeter silt fence before beginning work.
2. Install vehicle tracking control before mobilizing other equipment.
3. Deepen existing pond to contours shown; install outlet protection and baffle fence before overlot grading.
4. Minimize traffic at north entry. Give priority to grading at south entry to expedite construction of pan and curb returns.



**Know what's below.
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CALL 2 BUSINESS DAYS IN ADVANCE
FOR THE MARKING OF UNDERGROUND UTILITIES
BEFORE YOU DIG, GRADE, OR EXCAVATE.



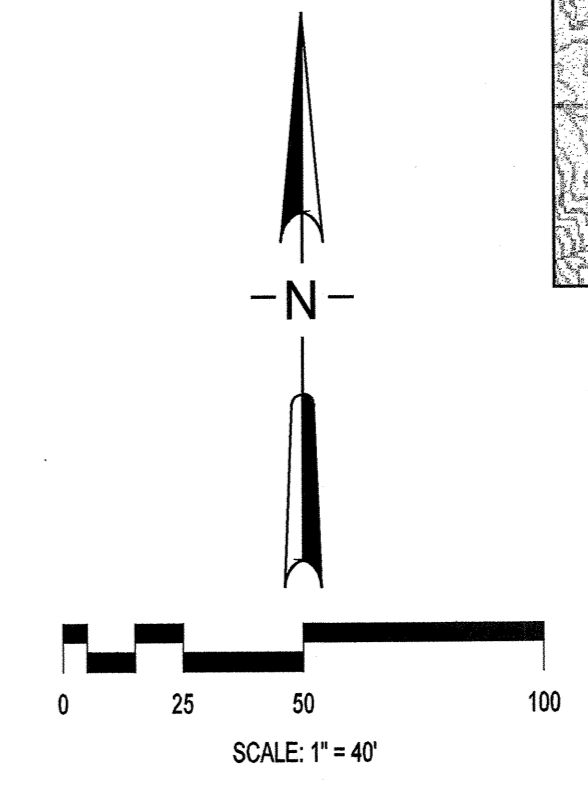
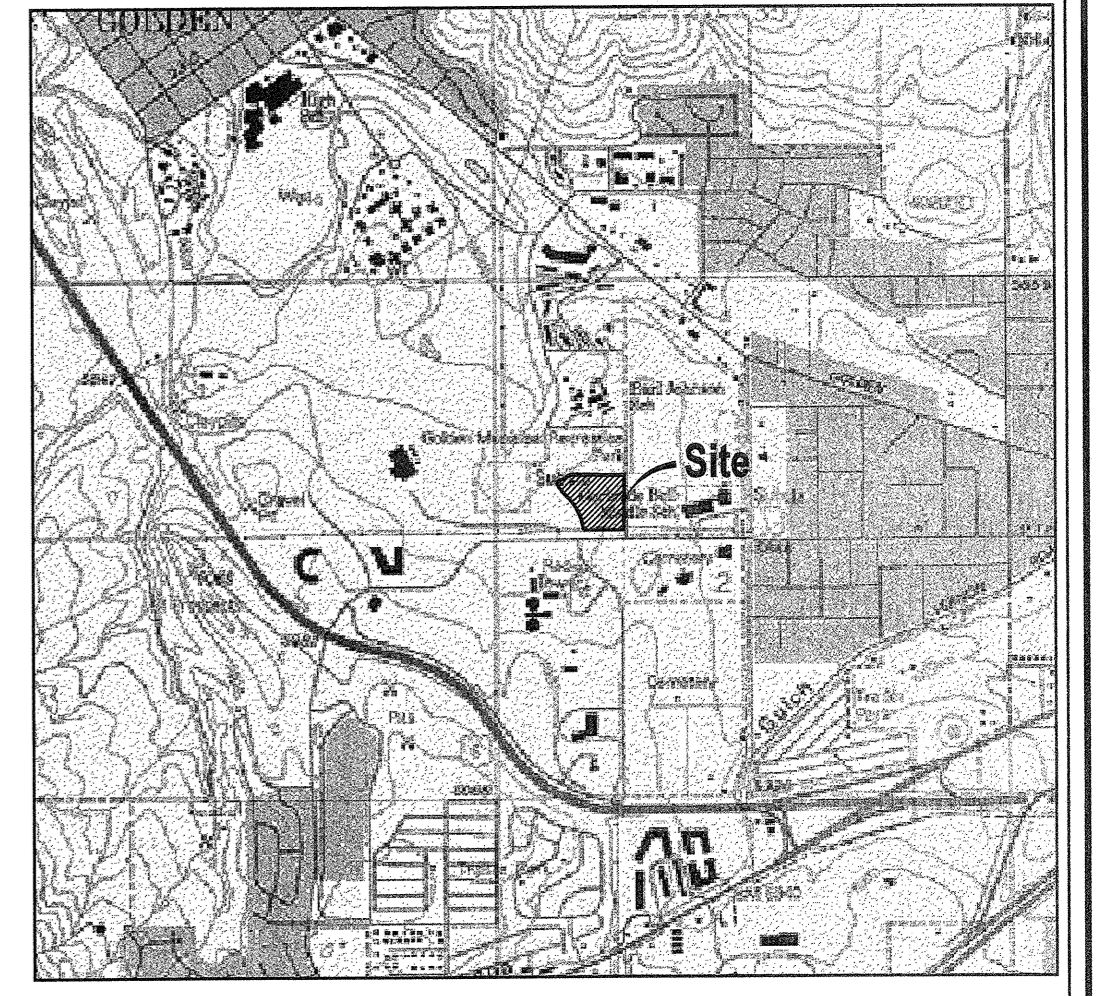
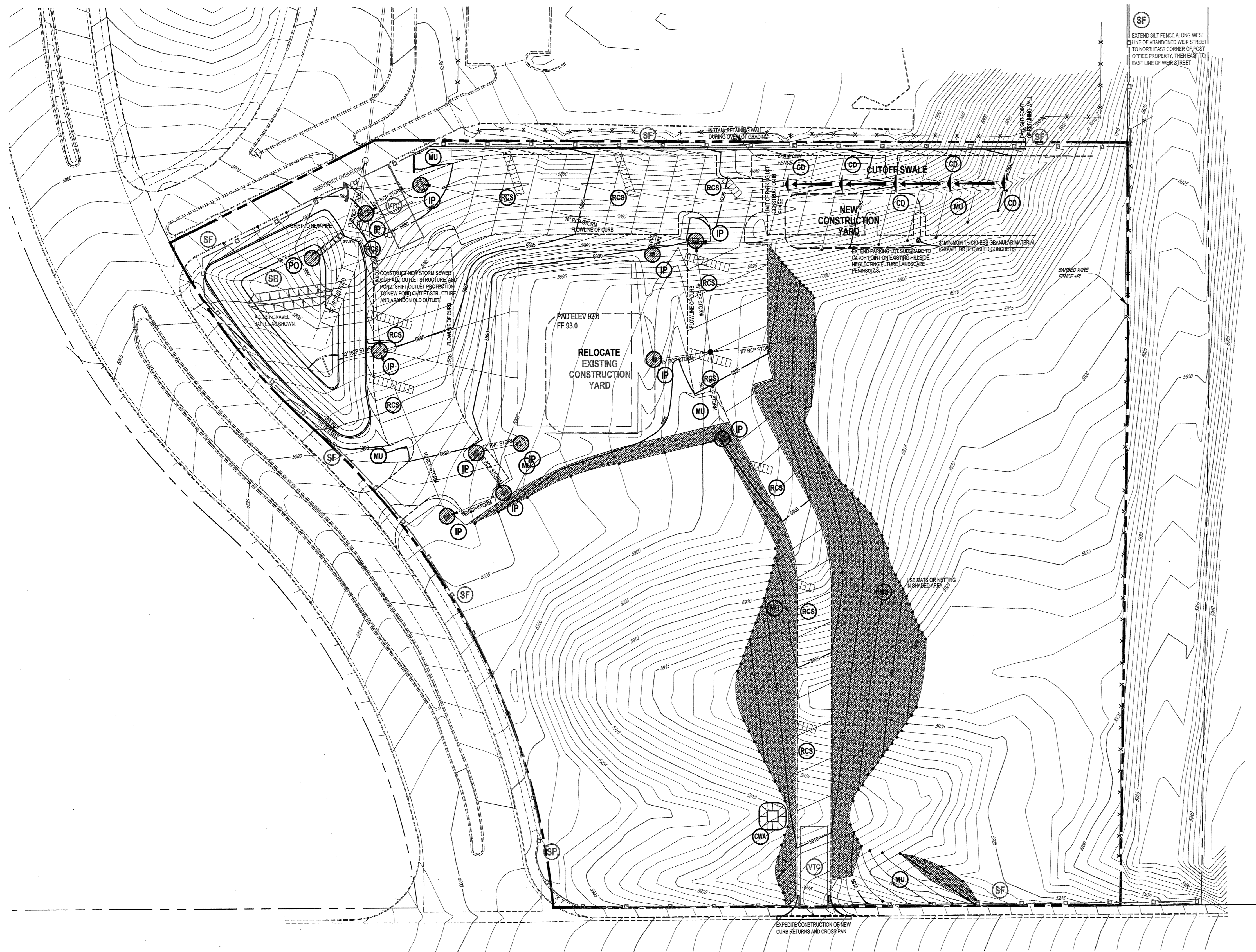
BENCH MARK:

S 406 (1984), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ullyses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ullyses Street, 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5899.95 feet, NGVD 29 datum.

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| 1 | CITY COMMENTS | 11/16/07 | SBR | |
| No. | Revisions | Date | By | |

Reams & Patterson, Inc.
Consulting Engineers and Land Surveyors
2950 South Jamaica Court, Suite 305
Aurora, Colorado 80014
(303) 745-4747

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| Project | | | |
| JEFFERSON OFFICE PARK | | | |
| 10th Avenue and Johnson Road, Golden, Colorado | | | |
| Initial Erosion Control Plan | | | |
| Designed | SBR | Scale | 1" = 40' |
| Drawn | DCA | Sheet | 3 |
| Checked | SBR | Date | AUGUST 10, 2007 |
| | | Job No. | 10003 |
| | | File | |



Interim Erosion Control

1. Upon completion of overlot grading, construct storm drains and other on-site utilities. Protect ends of pipe each night during construction, to prevent storm water and debris from entering pipe. Install inlet protection at each inlet as it is built. Direct storm flows to inlet, so that filtered water enters the storm drain and has reduced opportunity for erosion.
2. Complete new curb opening, returns and pan on 10th Avenue at earliest possible date to minimize Post Office interference.
3. On completion, direct all construction traffic to 10th Avenue entrance.
4. Maintain vehicle tracking control until corresponding portion of parking lot is paved.
5. Maintain settling basin in detention pond. Remove silt and maintain outlet control and baffle fence as needed.
6. Maintain previously-installed erosion control devices in areas where construction has not been completed.
7. Maintain existing curbs at drive openings until adjoining new curb is in place and ready to join the existing curb.
8. Maintain reseeded portions of site, watering and reseeding as needed.
9. Maintain previously-mulched slopes, repairing as needed to prevent erosion rills from developing.



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BEFORE YOU DIG, GRADE, OR EXCAVATE.

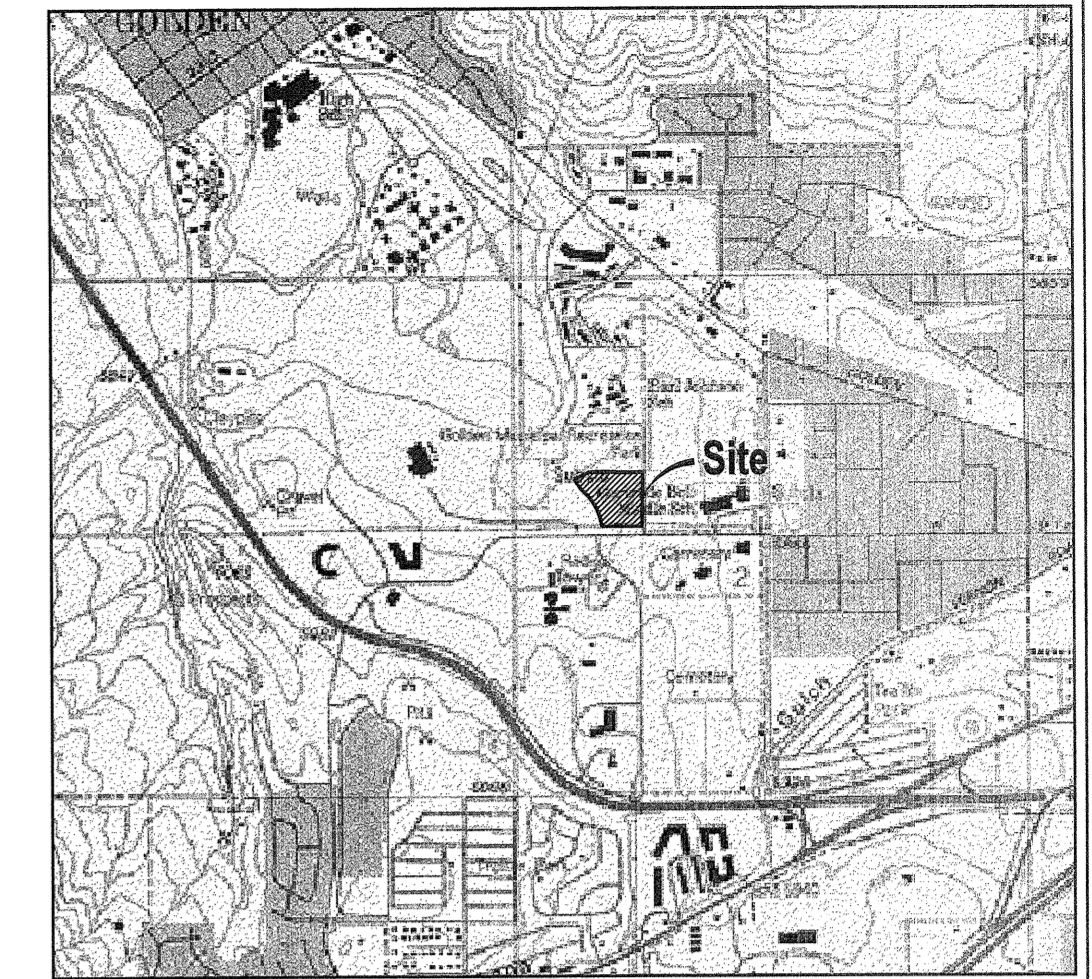
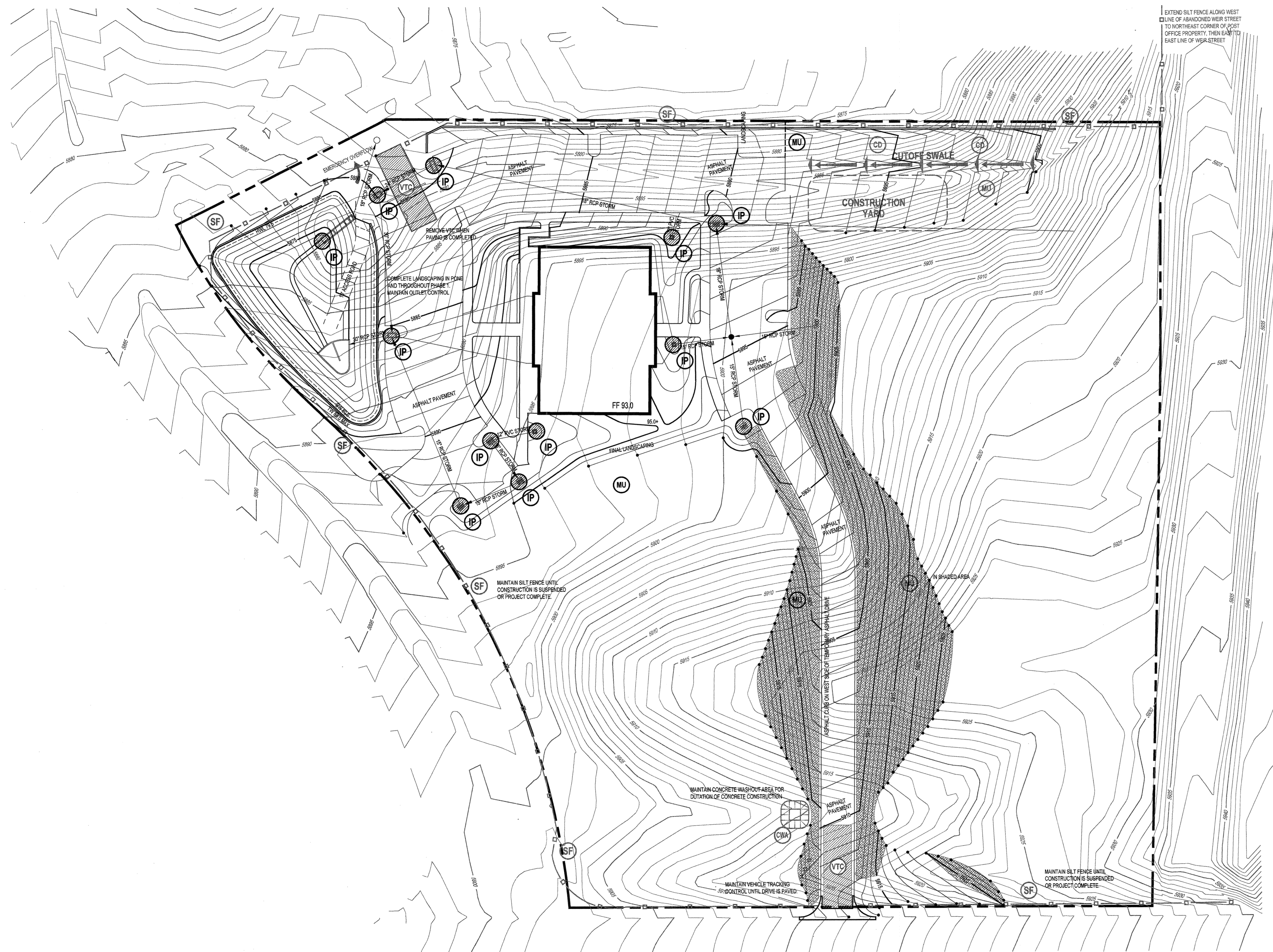


BENCH MARK:
S 406 (1984), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ullyses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ullyses Street, 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5999.95 feet, NGVD 29 datum.

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Reams & Patterson, Inc.
Consulting Engineers and Land Surveyors
2950 South Jamaica Court, Suite 305
Aurora, Colorado 80014
(303) 745-4747

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| Project | | | |
| JEFFERSON OFFICE PARK | | | |
| 10th Avenue and Johnson Road, Golden, Colorado | | | |
| Interim Erosion Control Plan | | | |
| Designed | SBR | Scale | 1" = 40' |
| Drawn | DCA | Sheet | 4 |
| Checked | SBR | Date | AUGUST 10, 2007 |
| | | Job No. | 10003 |
| | | File | |



Vicinity Map
From Golden USGS 7.5' quadrangle; 1" = 2,000'

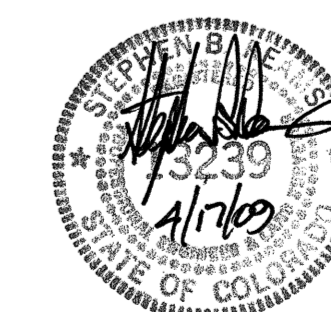
Erosion Control for Phase 1

1. Upon completion of overlot grading, construct storm drains and other on-site utilities. Protect ends of pipe each night during construction, to prevent storm water and debris from entering pipe. Install inlet protection at each inlet as it is built. Direct storm flows to inlet, so that filtered water enters the storm drain and has reduced opportunity for erosion.
2. Construct Phase 1 improvements as shown, including building, landscaping, walks, curbs, and pavement.
3. Install new silt fence on upstream perimeter of new parking lot.
4. Maintain vehicle tracking control until corresponding portion of parking lot is paved.
5. Maintain settling basin in detention pond. Remove silt and maintain outlet control and baffle fence as needed.
6. Maintain previously-installed erosion control devices in areas where construction has not been completed.
7. Maintain existing curbs at drive openings until adjoining new curb is in place and ready to join the existing curb.
8. Maintain reseeded portions of site, watering and reseeding as needed.
9. Maintain previously-mulched slopes, repairing as needed to prevent erosion rills from developing.



**Know what's below.
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CALL 2 BUSINESS DAYS IN ADVANCE
FOR THE MARKING OF UNDERGROUND UTILITIES
BEFORE YOU DIG, GRADE, OR EXCAVATE.



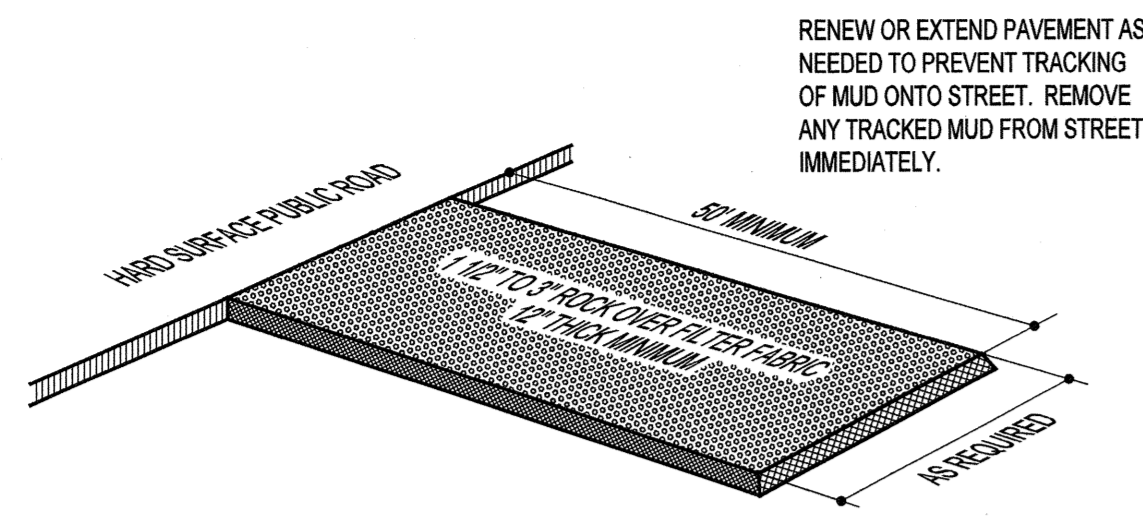
BENCH MARK:

S 406 (1984), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ullyses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ullyses Street, 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5899.95 feet, NGVD 29 datum.

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| 1 | CITY COMMENTS | 11/14/07 | SBR |
| No. | Revisions | Date | By |

Reams & Patterson, Inc.
Consulting Engineers and Land Surveyors
2950 South Jamaica Court, Suite 305
Aurora, Colorado 80014
(303) 745-4747

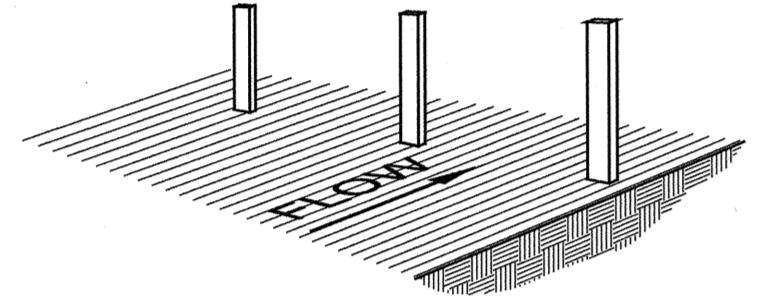
| | | | |
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| Project | | | |
| JEFFERSON OFFICE PARK | | | |
| 10th Avenue and Johnson Road, Golden, Colorado | | | |
| Final Phase 1 Erosion Control Plan | | | |
| Designed | SBR | Scale | 1" = 40' |
| Drawn | DCA | Sheet | 5 |
| Checked | SBR | Job No. | 10003 |
| | | Date | AUGUST 10, 2007 |
| | | File | |



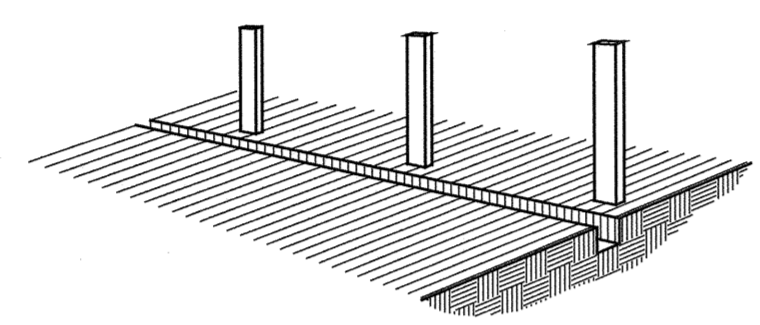
RENEW OR EXTEND PAVEMENT AS NEEDED TO PREVENT TRACKING OF MUD ONTO STREET. REMOVE ANY TRACKED MUD FROM STREET IMMEDIATELY.

SYMBOL: **VEHICLE TRACKING CONTROL**
NTS

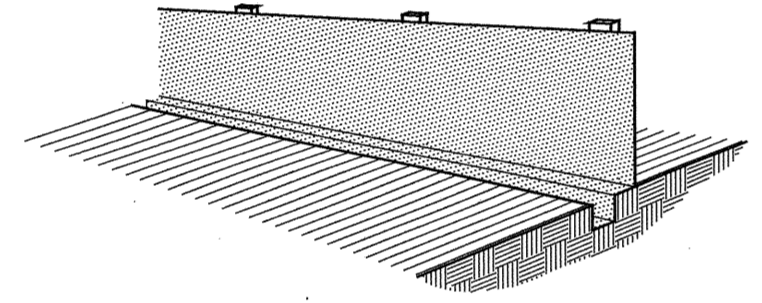
1. SET STAKES ALONG LINE SHOWN ON PLANS. SIZE, SPACING AND MATERIAL SUFFICIENT TO SUPPORT FILTER CLOTH.



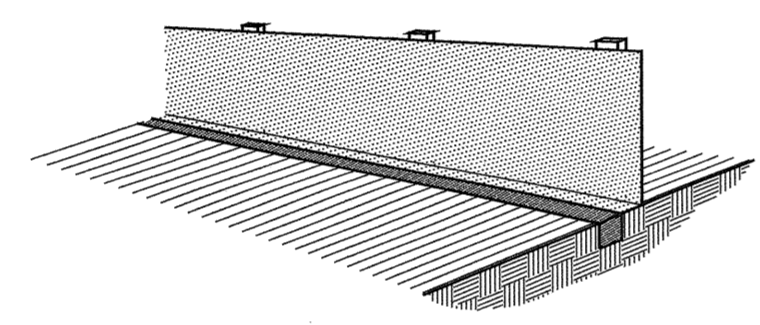
2. EXCAVATE 6\"/>



3. SECURE FABRIC TO POSTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. EXTEND FABRIC ACROSS TRENCH BOTTOM, AND 24\"/>

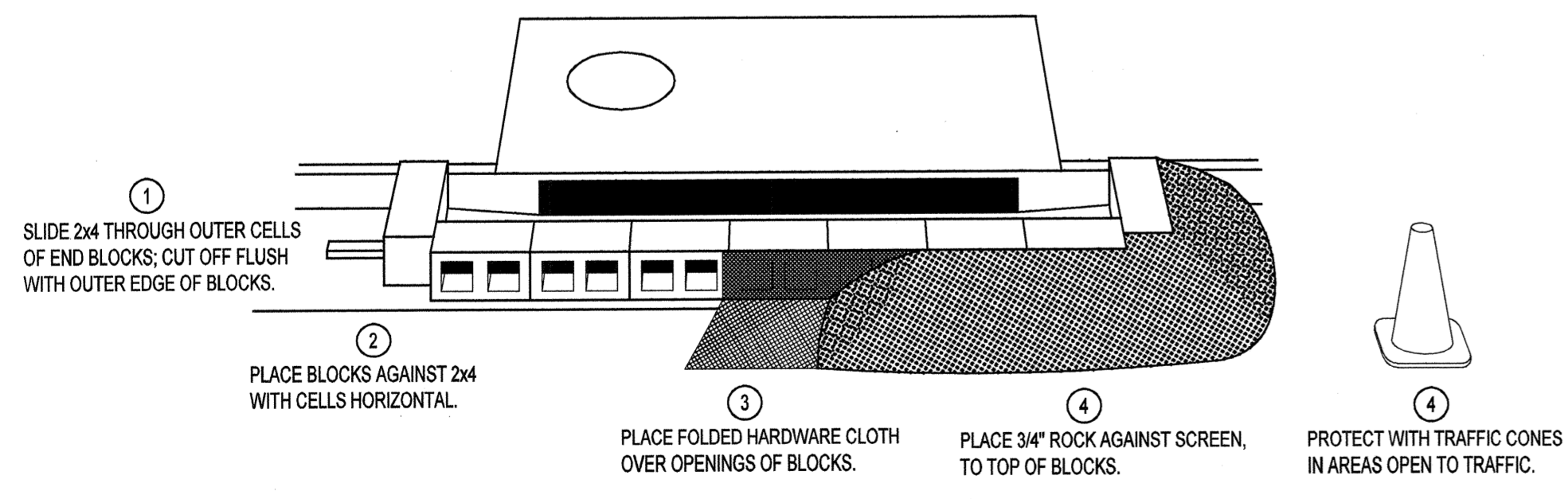


4. BACKFILL AND COMPACT TRENCH. PROVIDE MAINTENANCE AS NEEDED. REMOVE SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE.

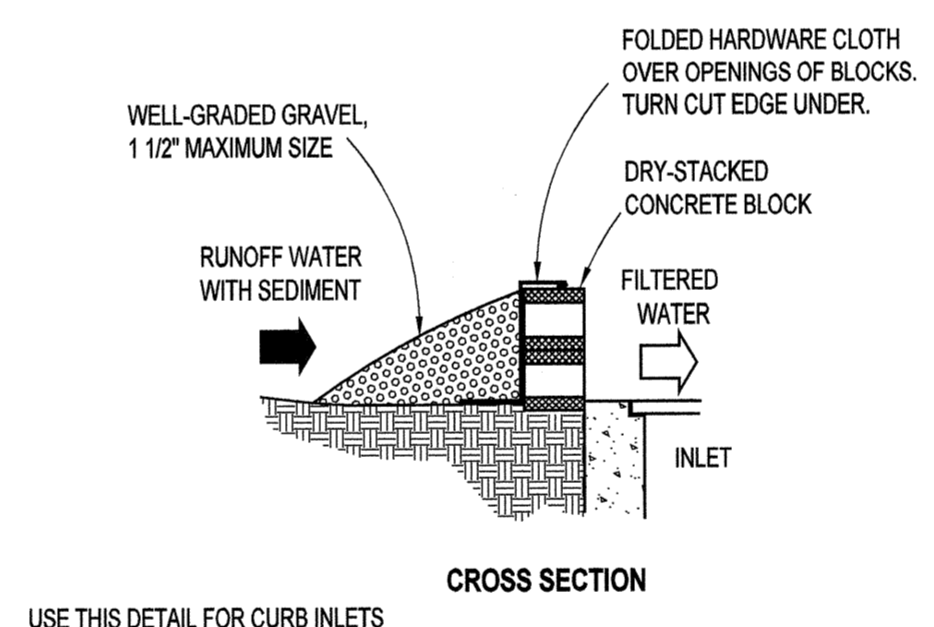
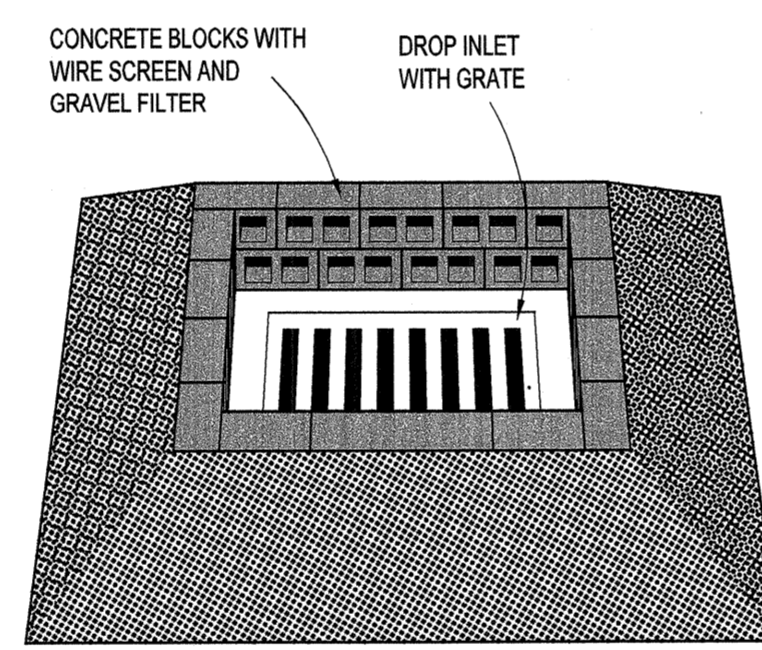


SYMBOL: **SILT FENCE**
NTS

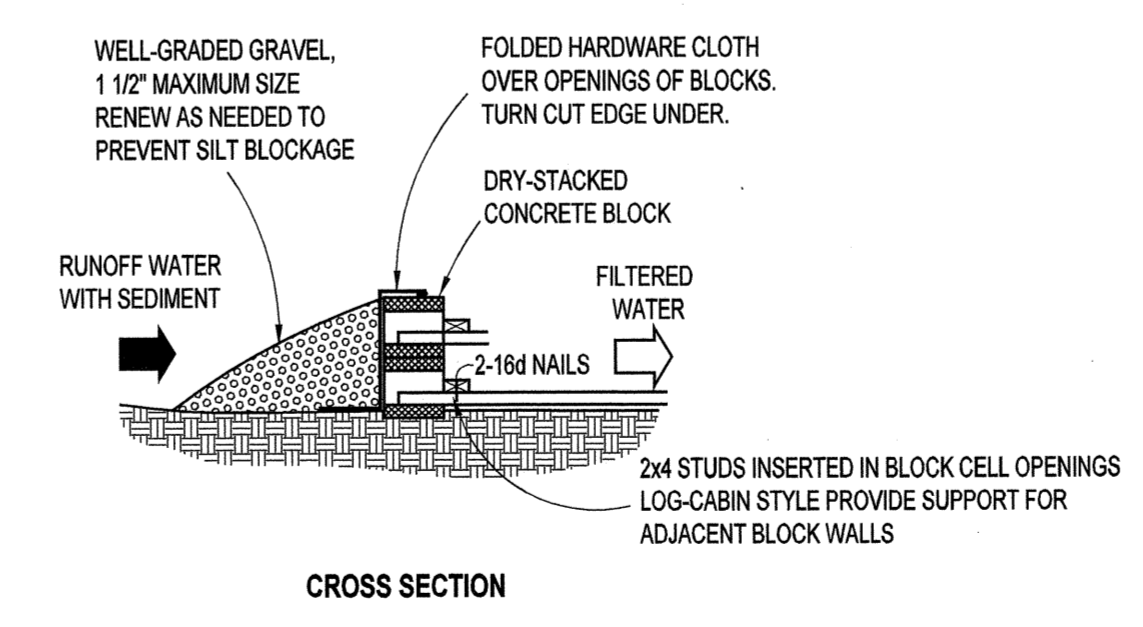
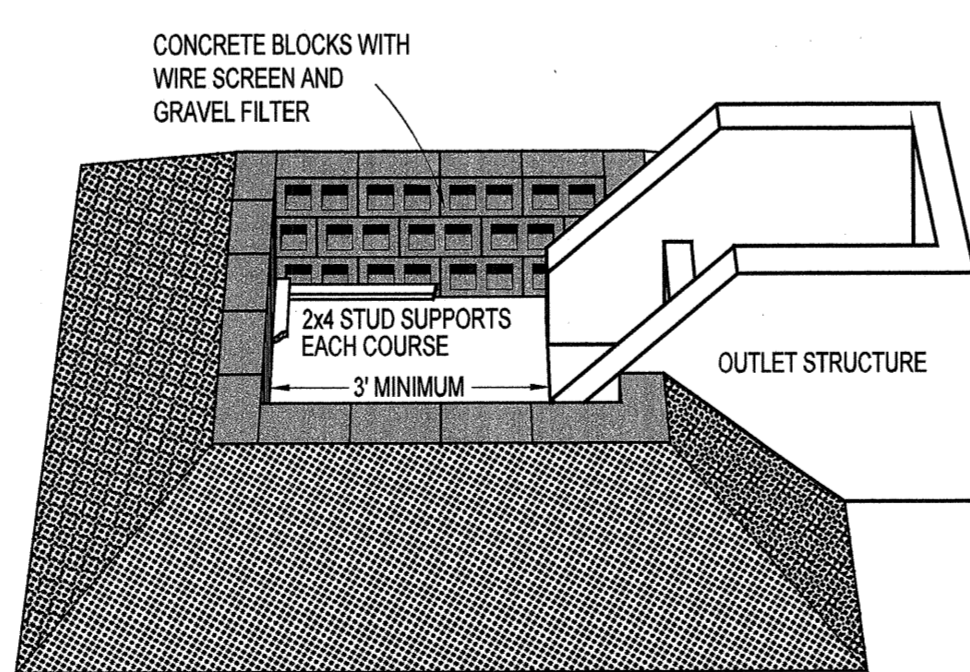
CONSTRUCT CONCRETE BLOCK SUPPORT WALL AROUND INLET THROAT AS SHOWN. FOLD HEAVY SCREEN (HARDWARE CLOTH) WITH 16\"/>



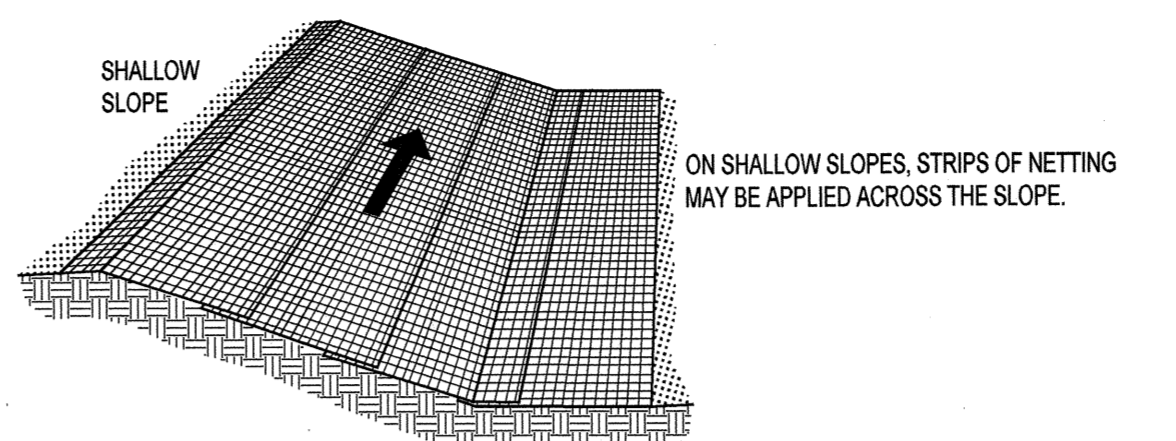
SYMBOL: **CURB INLET PROTECTION**
NTS



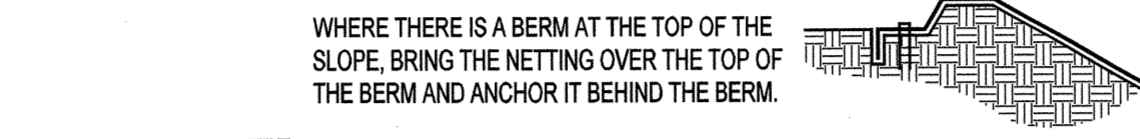
SYMBOL: **GRAVEL FILTER AT FIELD INLET**
NTS



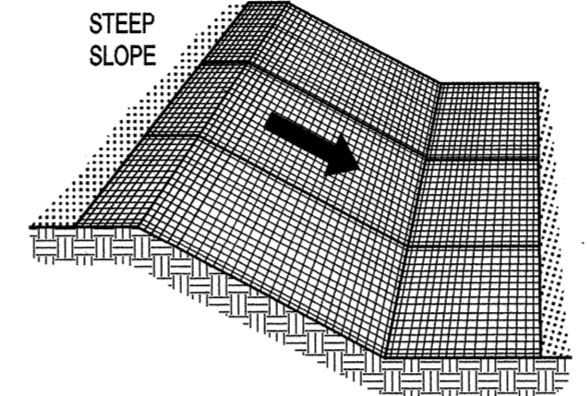
SYMBOL: **GRAVEL FILTER AT POND OUTLET**
NTS



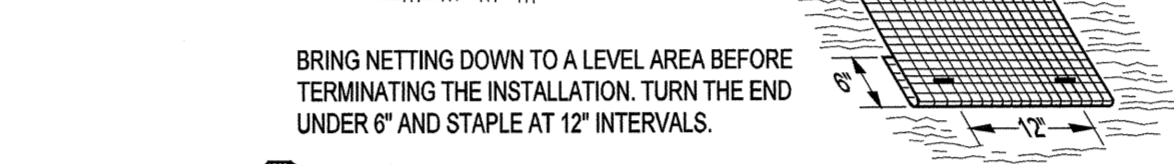
ON SHALLOW SLOPES, STRIPS OF NETTING MAY BE APPLIED ACROSS THE SLOPE.



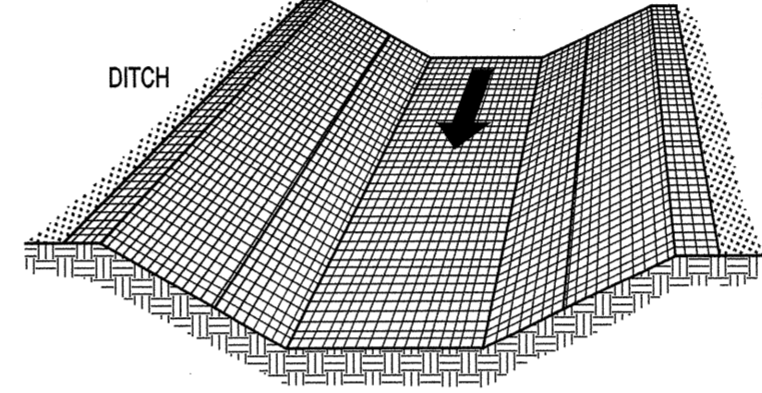
WHERE THERE IS A BERM AT THE TOP OF THE SLOPE, BRING THE NETTING OVER THE TOP OF THE BERM AND ANCHOR IT BEHIND THE BERM.



ON STEEP SLOPES, APPLY STRIPS OF NETTING PARALLEL WITH THE DIRECTION OF FLOW AND ANCHOR SECURELY.

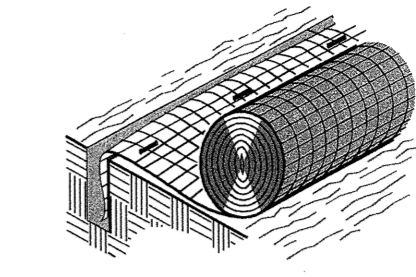


BRING NETTING DOWN TO A LEVEL AREA BEFORE TERMINATING THE INSTALLATION. TURN THE END UNDER 6\"/>

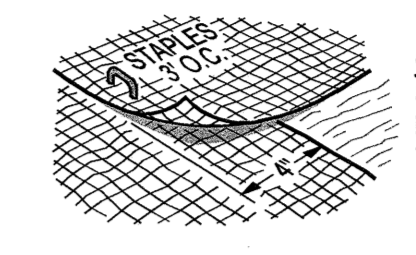


IN DITCHES, APPLY NETTING PARALLEL WITH THE DIRECTION OF FLOW. USE CHECK SLOTS EVERY 15 FEET. DO NOT JOIN STRIPS IN THE CENTER OF THE DITCH.

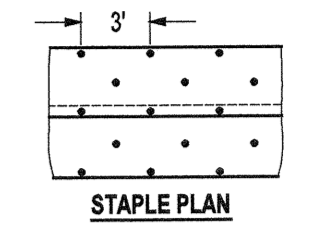
FROM VIRGINIA SOIL AND WATER CONSERVATION COMMISSION, 1985.



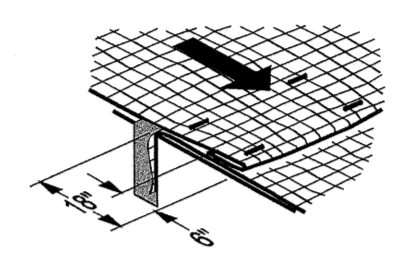
ANCHOR SLOT: BURY THE UN-CHANNEL END OF THE NET IN A 6\"/>



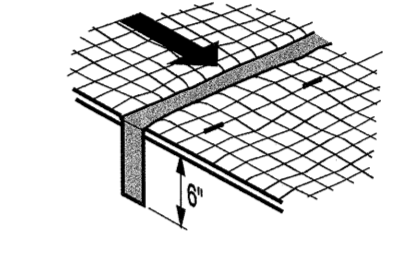
OVERLAP: OVERLAP EDGES OF THE STRIPS AT LEAST 4 INCHES. STAPLE EVERY 3 FEET DOWN THE CENTER OF THE STRIP.



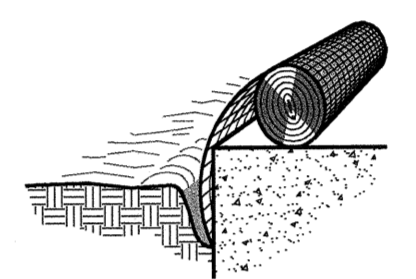
STAPLE PLAN



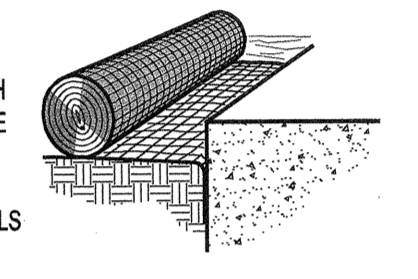
ANCHOR SLOT: BURY THE UN-CHANNEL END OF THE NET IN A 6\"/>



CHECK SLOTS: ON ERODIBLE SOILS OR STEEP SLOPES, MAKE CHECK SLOTS EVERY 15 FEET. INSERT A FOLT OF THE NET INTO A 6-INCH TRENCH AND TAMP FIRMLY. STAPLE AT 12 INCH INTERVALS ACROSS THE NET. LAY THE NET SMOOTHLY ON THE SURFACE OF THE SOIL; DO NOT STRETCH THE NET, AND DO NOT ALLOW WRINKLES.

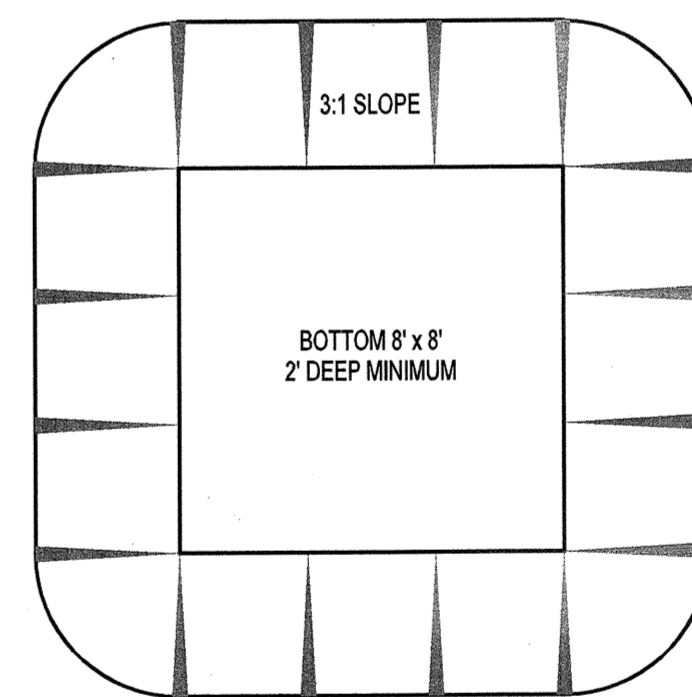


ANCHORING ENDS AT STRUCTURES: PLACE THE END OF THE NET IN A 6-INCH SLOT ON THE UP-CHANNEL SIDE OF THE STRUCTURE. FILL THE TRENCH AND TAMP FIRMLY. ROLL THE NET UP THE CHANNEL. STAPLE AT 12-INCH INTERVALS ALONG THE ANCHOR END OF THE NET.



BLANKETS, NETTING AND MATTING

NTS



INSTALL WASHOUT AREA BEFORE PLACING ANY CONCRETE. POST SIGNS AT WASHOUT AREA, PROJECT ENTRANCE, AND ELSEWHERE AS NEEDED TO DIRECT TRUCKS TO WASHOUT AREA.

REPAIR, ENLARGE, AND CLEAN OUT AS NECESSARY TO MAINTAIN ADEQUATE CAPACITY. INSPECT WEEKLY, DURING, AND AFTER ANY STORM.

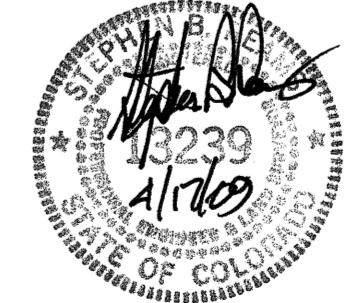
WHEN CONSTRUCTION ENDS, REMOVE ALL CONCRETE WASTE TO APPROVED WASTE SITE. RESTORE TO FINISH GRADE AS SHOWN ON PLAN, AND LANDSCAPE.

SYMBOL: **CWA**

CONCRETE WASHOUT AREA

NTS

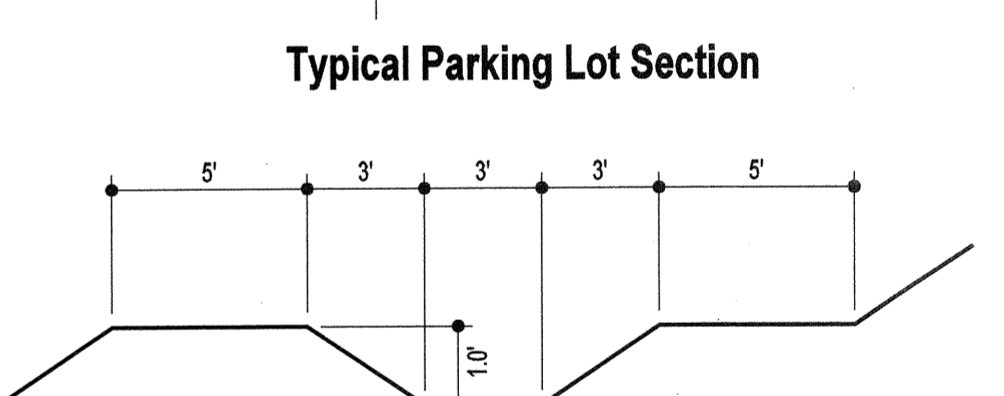
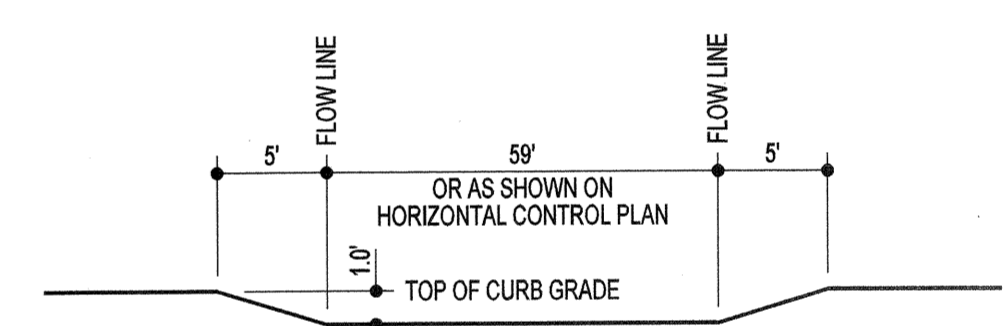
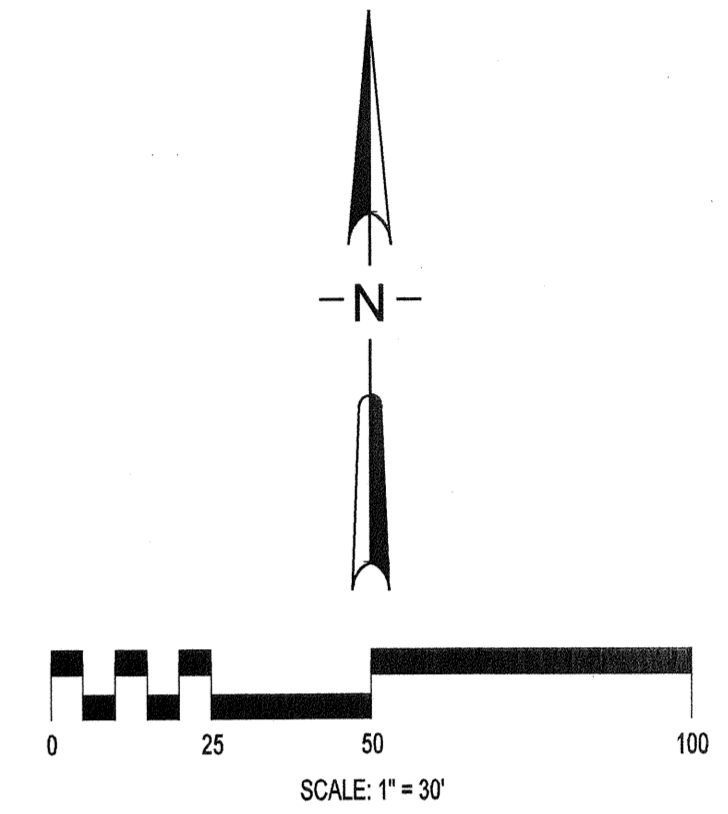
USE THIS DETAIL AT END OF PIPE IN EXISTING POND AND AT NEW POND OUTLET STRUCTURE



BENCH MARK:

S 406 (1984), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ullyses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ullyses Street, 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5899.95 feet, NGVD 29 datum.

| | | | | | | | | | | | | |
|-------------------------------------|-----------------------|---|---|--|---------------|-----------------|----------|------------|-----------------------|----------------|--------------|--|
| | | <p>Reams & Patterson, Inc. Consulting Engineers and Land Surveyors 2950 South Jamaica Court, Suite 305 Aurora, Colorado 80014 (303) 745-4747</p> | <p>Project: JEFFERSON OFFICE PARK 10th Avenue and Johnson Road, Golden, Colorado</p> | | | | | | | | | |
| <p>1 CITY COMMENTS 11/14/07 SBR</p> | | | <p>Erosion Control Details</p> <table border="1"> <tr> <td>Designed: SBR</td> <td>Scale: AS SHOWN</td> <td>Sheet: 6</td> </tr> <tr> <td>Drawn: DCA</td> <td>Date: AUGUST 10, 2007</td> <td>Job No.: 10003</td> </tr> <tr> <td>Checked: SBR</td> <td></td> <td>File:</td> </tr> </table> | | Designed: SBR | Scale: AS SHOWN | Sheet: 6 | Drawn: DCA | Date: AUGUST 10, 2007 | Job No.: 10003 | Checked: SBR | |
| Designed: SBR | Scale: AS SHOWN | Sheet: 6 | | | | | | | | | | |
| Drawn: DCA | Date: AUGUST 10, 2007 | Job No.: 10003 | | | | | | | | | | |
| Checked: SBR | | File: | | | | | | | | | | |



Typical Parking Lot Section

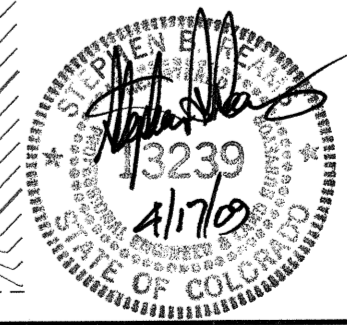
Protective Swale Section

NOTE:
UNLESS THE NOTATION OR CONTEXT CLEARLY INDICATES OTHERWISE, ALL SPOT ELEVATIONS ARE TOP OF CURB GRADES. THE NOTATION "FL" DENOTES FLOWLINE ELEVATION.



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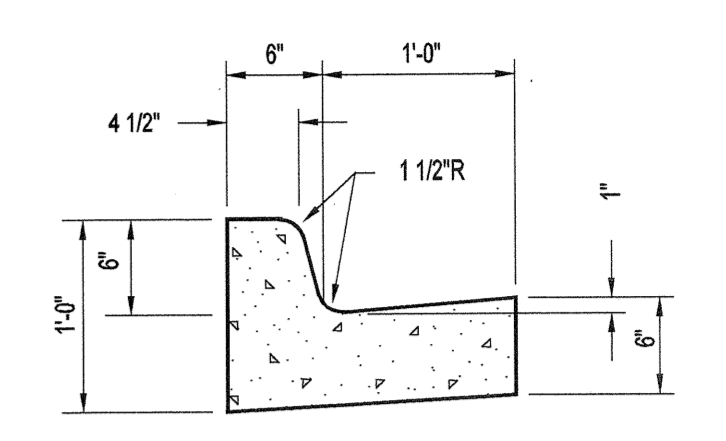
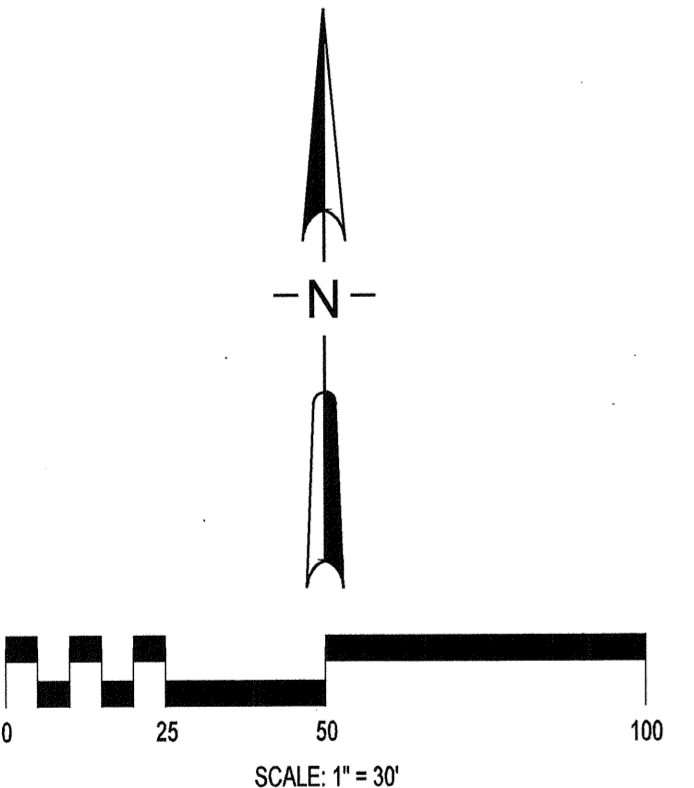
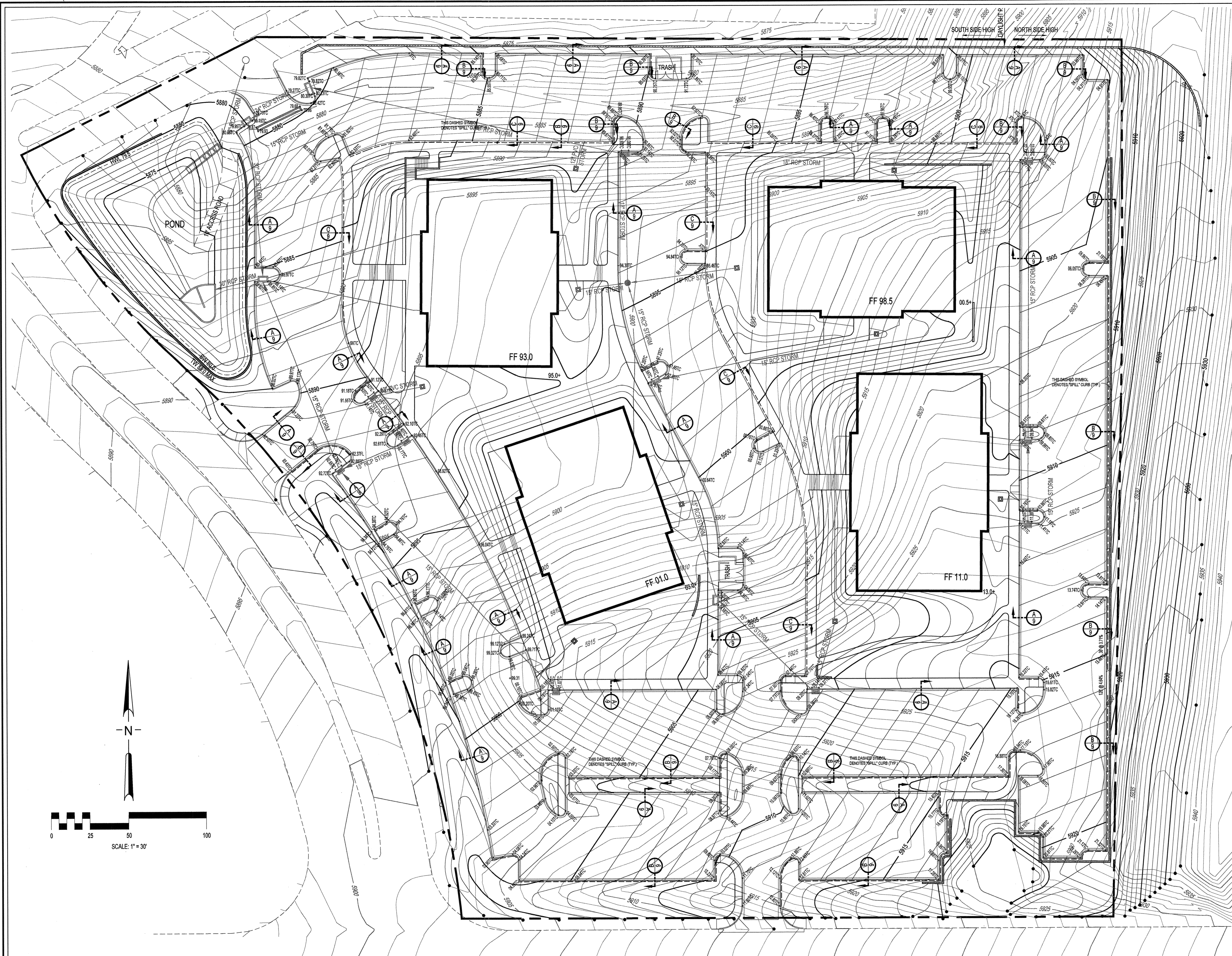


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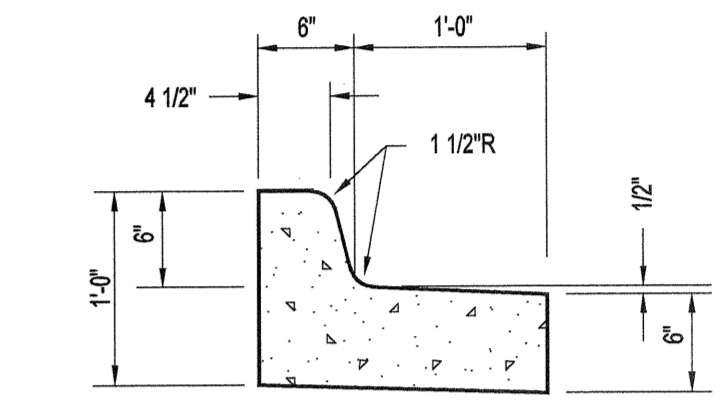
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| 2 | | | |
| 1 | | | |
| No. | Revisions | Date | By |

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2950 South Jamaica Court, Suite 305
Aurora, Colorado 80014
(303) 745-4747

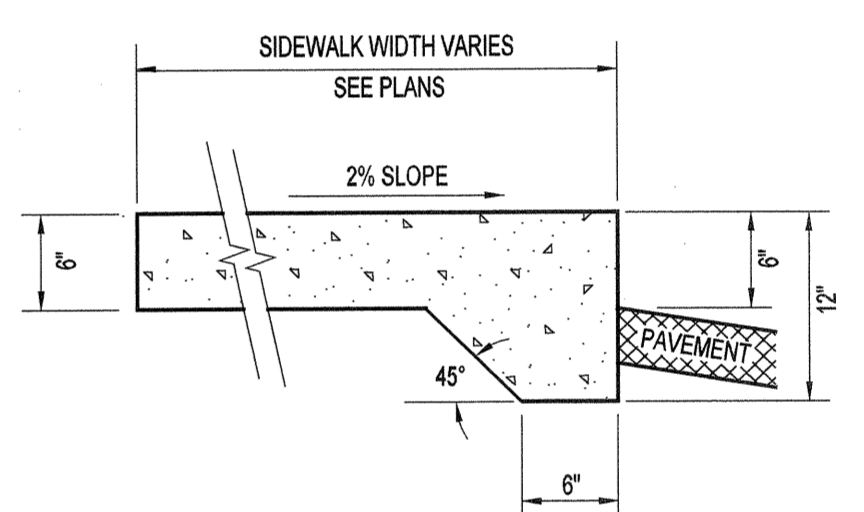
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| JEFFERSON OFFICE PARK | | | |
| 10th Avenue and Johnson Road, Golden, Colorado | | | |
| Overlot Grading Plan | | | |
| Designed | SBR | Scale | 1" = 30' |
| Drawn | DCA | Sheet | 8 |
| Checked | SBR | Job No. | 10003 |
| | | Date | AUGUST 10, 2007 |
| | | File | |



A CATCH MEDIAN CURB
1" = 1'-0"



B MEDIAN (SPILL) CURB
1" = 1'-0"

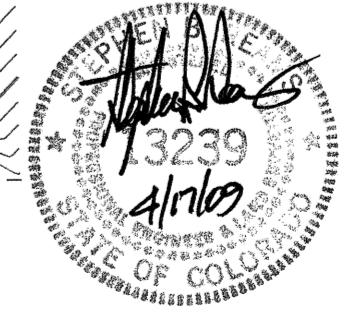


C WALK WITH CURB HEAD
1" = 1'-0"

NOTE:
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| | | | |
|--|--|--|-------|
| Reams & Patterson, Inc. Consulting Engineers and Land Surveyors 2950 South Jamaica Court, Suite 305 Aurora, Colorado 80014 (303) 745-4747 | | JEFFERSON OFFICE PARK 10th Avenue and Johnson Road, Golden, Colorado Finish Grading Plan | |
| Designed: SBR Drawn: DCA Checked: SBR | Scale: 1" = 30' Date: AUGUST 10, 2007 | Sheet: 9 Job No.: 10003 | File: |

Note: The City of Golden cannot & does not authorize the use of the existing 18" storm pipe. Authorization shall come from the city upon the owner's & contractor's request.

Flag Notes - Water

- 1 WET TAP EXISTING 8" MAIN, INCLUDING 8" x 8" TAPPING TEE AND VALVE.
- 2 8" 8" TEE AND THRUST BLOCK
- 3 8" 6" TEE AND THRUST BLOCK
- 4 8" 90° BEND AND THRUST BLOCK
- 5 8" 45° BEND AND THRUST BLOCK
- 6 8" 22.5° BEND AND THRUST BLOCK
- 7 8" GATE VALVE
- 8 8" x 6" REDUCER
- 9 8" GATE VALVE
- 10 FIRE HYDRANT ASSEMBLY
- 11 6" 90° BEND AND THRUST BLOCK
- 12 1.5" CORPORATION STOP
- 13 INSIDE 1.5" METER SETTING
- 14 STUB TO POINT 5' FROM BUILDING AND MARK
- 15 STUB OUT PIPE ONE LENGTH FROM LAST FITTING. INSTALL PLUG AND TEMPORARY BLOWOFF FOR EXTENSION IN FUTURE PHASE. SECURE THROUGH TO TEE WITH ROD HARNESS OR MEGALUG CONNECTORS.
- 16 TERMINATE FIRE SPRINKLER SUPPLY LINE AS SHOWN ON FIRE SPRINKLER DRAWINGS.
- 17 6" 22.5° BEND AND THRUST BLOCK

Note: All domestic water service lines shall be installed as per City of Golden Std. detail W-13 (Sheet 21 of these plans) including the installation of the curb stop which is not shown on these plans. Curb stops shall not be installed in any sidewalk.

All taps of both existing and proposed water mains shall be witnessed by either the City of Golden Public Works Inspector or the City of Golden Development Review Engineer. Call 28 hours in advance to schedule. Call 303 384 5115

The witness of tapping is especially important in the case of domestic potable water taps.

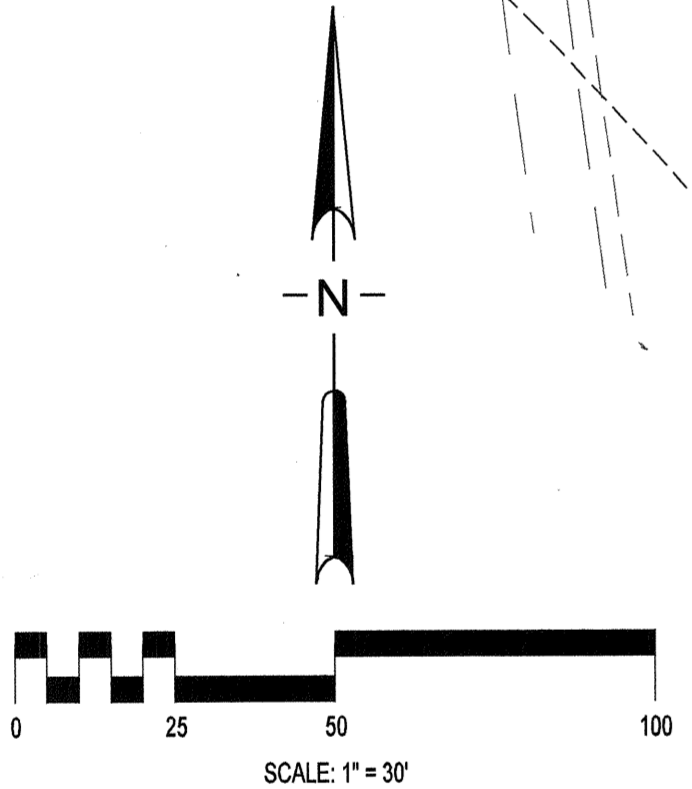
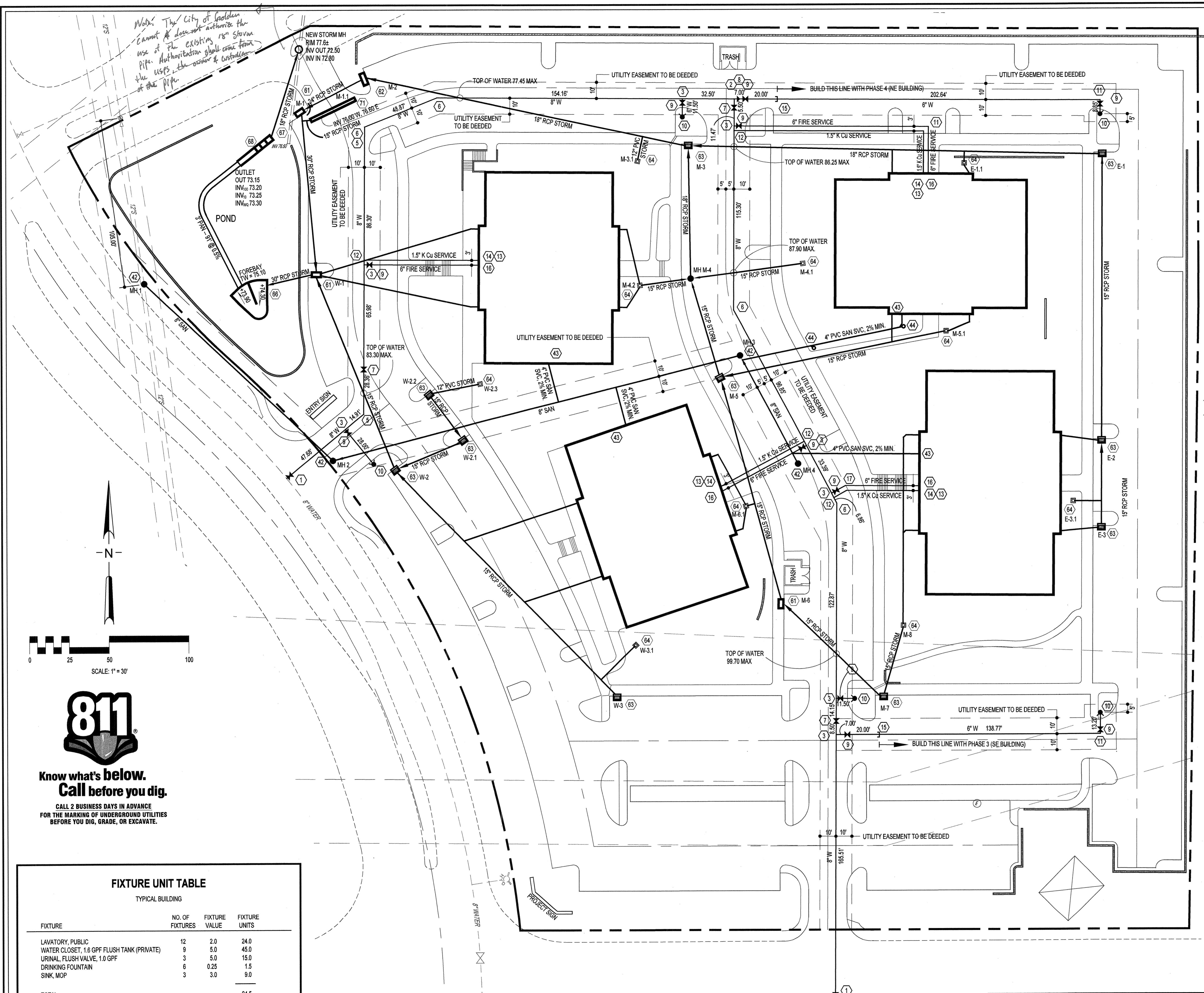
Flag Notes - Sewer

- 41 CONNECT TO EXISTING SANITARY SEWER MANHOLE. RESHAPE EXISTING BENCH AND INVERT FOR SMOOTH FINISH. RESET LADDER RUNGS IF NECESSARY.
- 42 GOLDEN STANDARD 4" SANITARY SEWER MANHOLE. DO NOT ATTEMPT TO SET MANHOLE RING TO FINISH GRADE UPON INITIAL INSTALLATION; ADD ADJUSTING RINGS TO MEET GRADE AT TIME OF PAVING.
- 43 STUB SERVICE LINE TO A POINT 5' FROM FOUNDATION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 44 4" SANITARY SEWER CLEANOUT; EXTEND TO SURFACE AND PROVIDE TRAFFIC COVER. MAXIMUM PACING BETWEEN CLEANOUTS IS 100 FEET.

Flag Notes - Storm Sewer

- 61 5" TYPE R CURB OPENING INLET, CDOT STANDARD.
- 62 7" TYPE R CURB OPENING INLET, CDOT STANDARD.
- 63 NO. 13 COMBINATION INLET
- 64 GRATED AREA INLET
- 65 GOLDEN STANDARD 5" STORM SEWER MANHOLE. DO NOT ATTEMPT TO SET MANHOLE RING TO FINISH GRADE UPON INITIAL INSTALLATION; ADD ADJUSTING RINGS TO MEET GRADE AT TIME OF PAVING.
- 66 FLARED END SECTION TO MATCH PIPE. INSTALL CONCRETE FOREBAY, 6" CONCRETE IN CONFIGURATION SHOWN, SLOPED TO OUTLET.
- 67 ABANDON EXISTING 18" HOPE PIPE SOUTH OF NEW MANHOLE
- 68 DETENTION POND OUTLET STRUCTURE
- 69 STUB SERVICE LINE TO A POINT 5' FROM FOUNDATION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 70 CONNECT LATERAL TO MAIN WITH SADDLE OR TEE, USING CARE TO ASSURE SOUND, TIGHT JOINT WITHOUT ALLOWING LATERAL TO PROTRUDE INTO MAIN.
- 71 30" TRENCH DRAIN

UPON COMPLETION OF NEW POND OUTLET STRUCTURE AND STORM DRAIN OUTFALL, CUT BACK EXISTING SILT POND OUTLET, PLUG WITH CONCRETE AND ABANDON.



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FIXTURE UNIT TABLE
 TYPICAL BUILDING

| FIXTURE | NO. OF FIXTURES | FIXTURE VALUE | FIXTURE UNITS |
|--|-----------------|---------------|---------------|
| LAVATORY, PUBLIC | 12 | 2.0 | 24.0 |
| WATER CLOSET, 1.6 GPF FLUSH TANK (PRIVATE) | 9 | 5.0 | 45.0 |
| URINAL, FLUSH VALVE, 1.0 GPF | 3 | 5.0 | 15.0 |
| DRINKING FOUNTAIN | 6 | 0.25 | 1.5 |
| SINK, MOP | 3 | 3.0 | 9.0 |
| TOTAL | | | 94.5 |

LAWN IRRIGATION BY AUTOMATIC SYSTEM AT OFF-PEAK HOURS; HOSE BIBBS NEGLECTED IN THIS CALCULATION.

METER SIZING TABLE

| METER NO. | BLDG. NO. | FIXTURE UNITS | FLOW (GPM) | METER SIZE IN INCHES | VELOCITY IN SERVICE IN INCHES | LOSS PER 100 FEET |
|-----------|-----------|---------------|------------|----------------------|-------------------------------|-------------------|
| 1-4 | TYPICAL | 94.5 | 42.1 | 1.5 | 7.84 | |

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| No. | Revisions | Date | By |
|-----|----------------------------------|----------|-----|
| 4 | FIRE, DOMESTIC SVCS | 04/16/09 | SBR |
| 3 | CITY COMMENTS - REROUTE SANITARY | 12/17/08 | SBR |
| 2 | CITY COMMENTS | 10/22/08 | SBR |
| 1 | REMOVE WALK TO PARK | 01/22/08 | SBR |

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 2950 South Jamaica Court, Suite 305
 Aurora, Colorado 80014
 (303) 745-4747



JEFFERSON OFFICE PARK
 10th Avenue and Johnson Road, Golden, Colorado

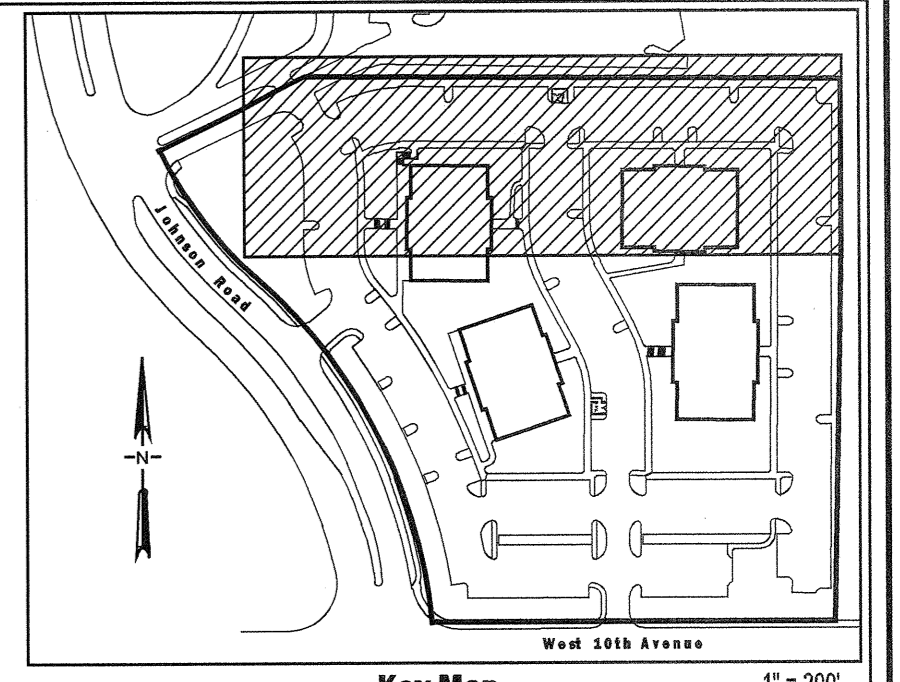
Overall Utility Plan

| | | | | | |
|----------|-----|-------|-----------------|---------|-------|
| Designed | SBR | Scale | 1" = 30' | Sheet | 10 |
| Drawn | DCA | | | Job No. | 10003 |
| Checked | SBR | Date | AUGUST 10, 2007 | File | |

Note: The City of Golden cannot and does not authorize the use of the existing storm pipe. Authorization shall come from the CSEPS, the owner and custodian of the RR.



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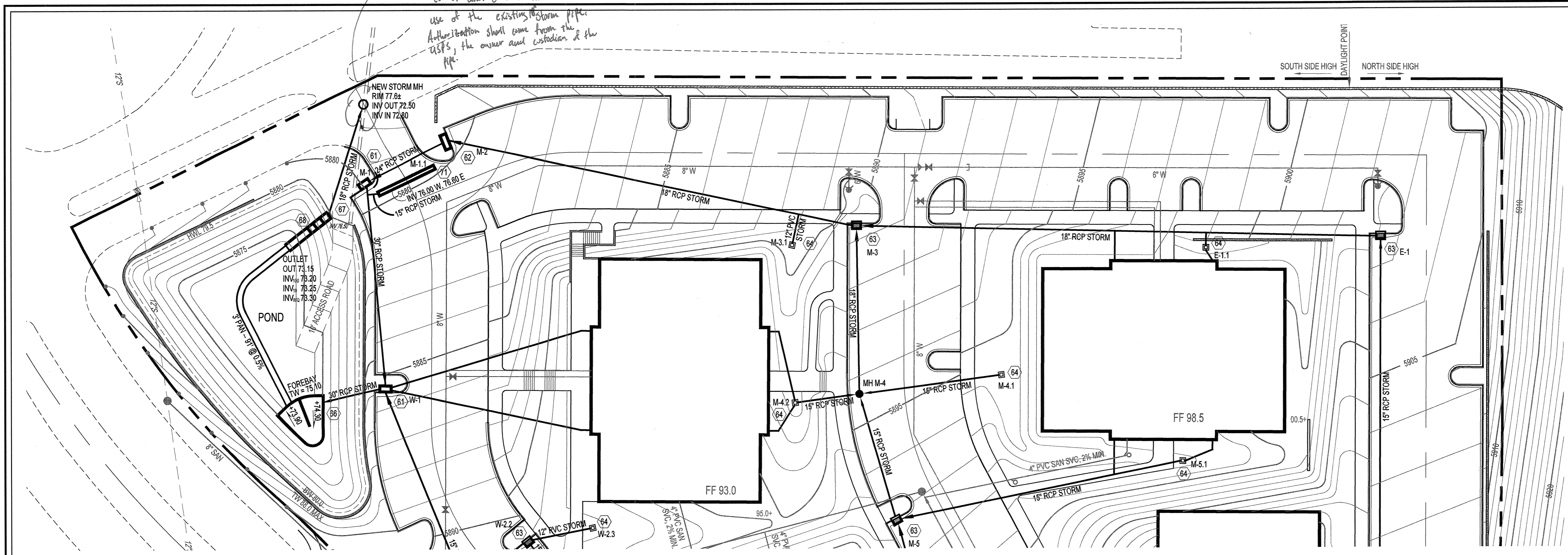


Key Map 1" = 200'

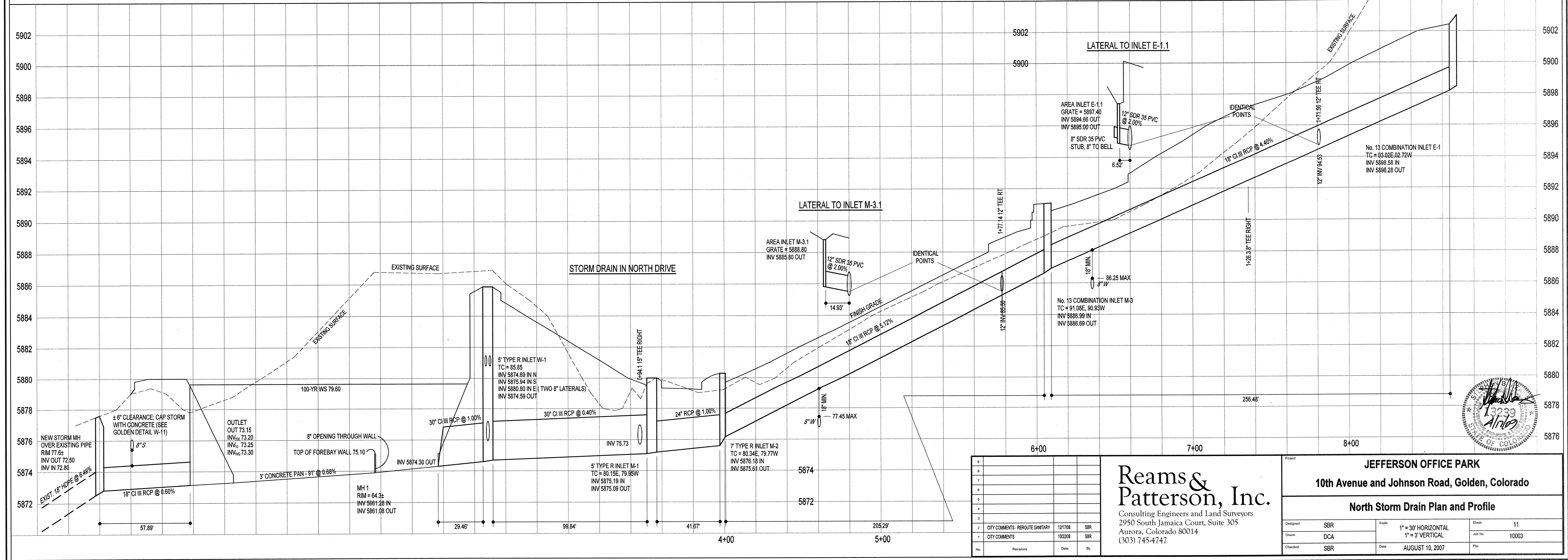
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- 71 30' TRENCH DRAIN

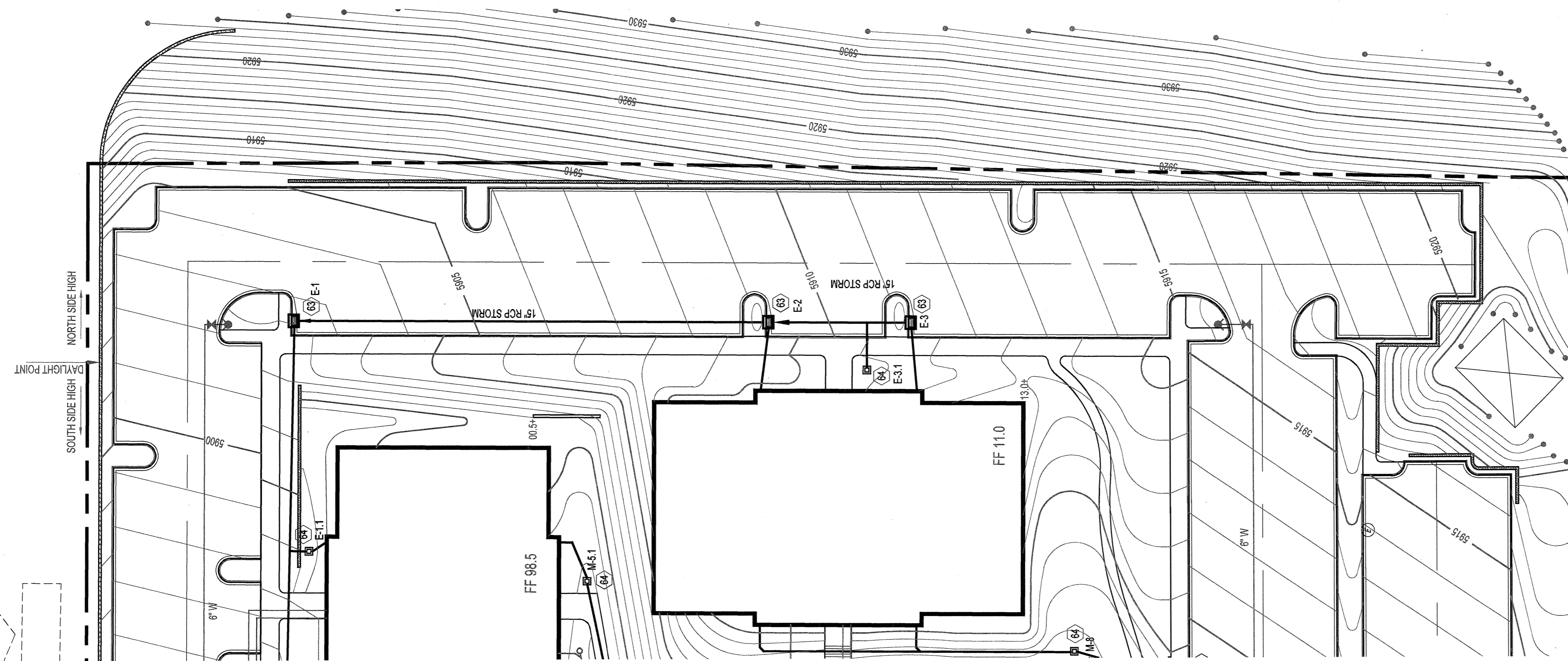
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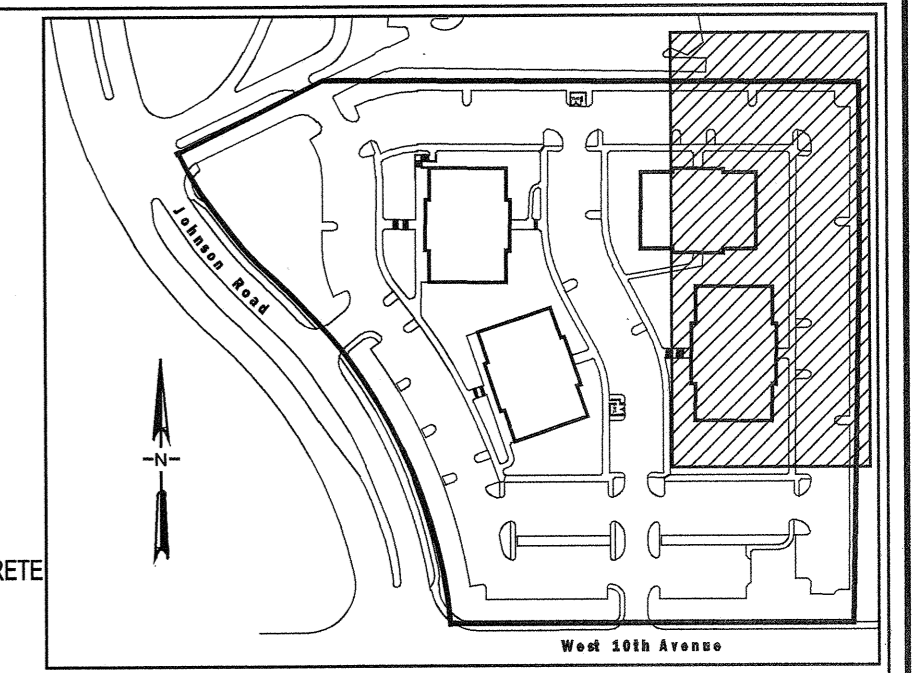
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| Reams & Patterson, Inc. Consulting Engineers and Land Surveyors 2950 South Jamaica Court, Suite 305 Aurora, Colorado 80014 (303) 745-4747 | | JEFFERSON OFFICE PARK 10th Avenue and Johnson Road, Golden, Colorado North Storm Drain Plan and Profile | |
| Designed: SBR Drawn: DCA Checked: SBR | Scale: 1" = 30' HORIZONTAL 1" = 3' VERTICAL | Sheet: 11 Job No.: 10003 | Date: AUGUST 10, 2007 File: |



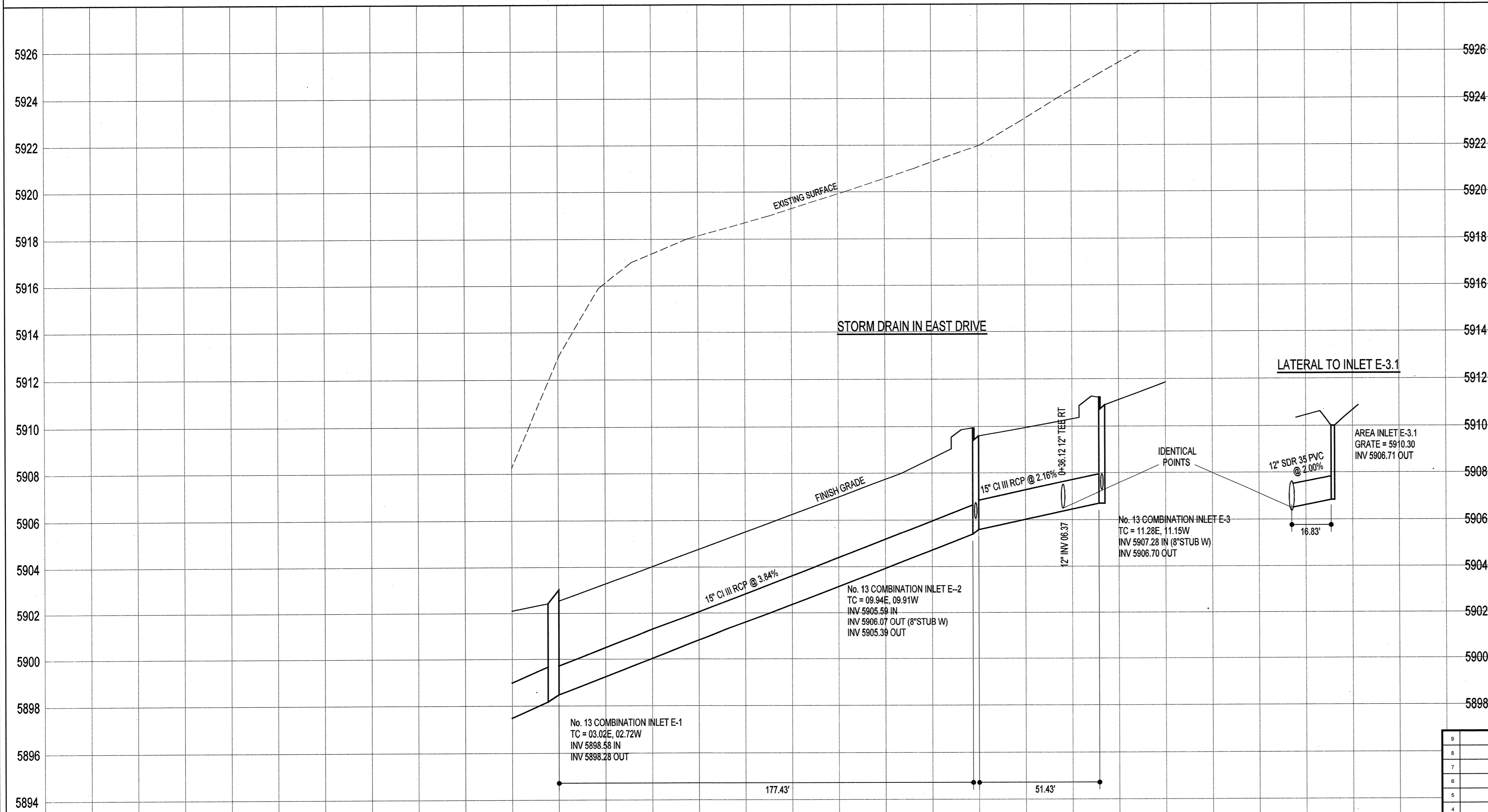
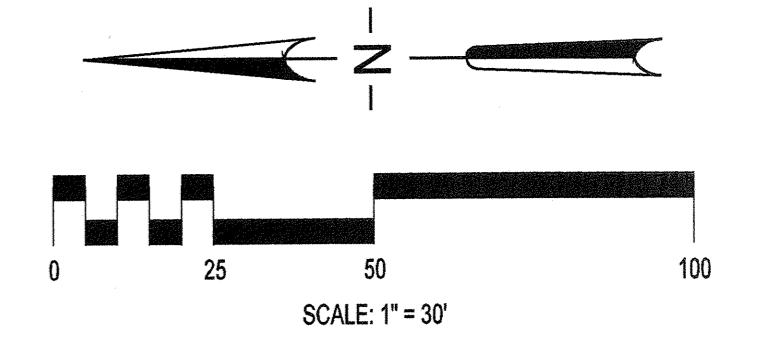
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Key Map 1" = 200'



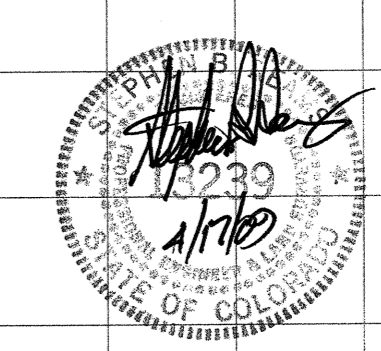
| No. | Revisions | Date | By |
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 Aurora, Colorado 80014
 (303) 745-4747

| | | | |
|--|-----|---------|--|
| Project | | | |
| JEFFERSON OFFICE PARK | | | |
| 10th Avenue and Johnson Road, Golden, Colorado | | | |
| Storm Drain Plan and Profile -- East | | | |
| Designed | SBR | Scale | 1" = 3' HORIZONTAL 1" = 3' VERTICAL |
| Drawn | DCA | Date | AUGUST 10, 2007 |
| Checked | SBR | Job No. | 10003 |
| | | File | |



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

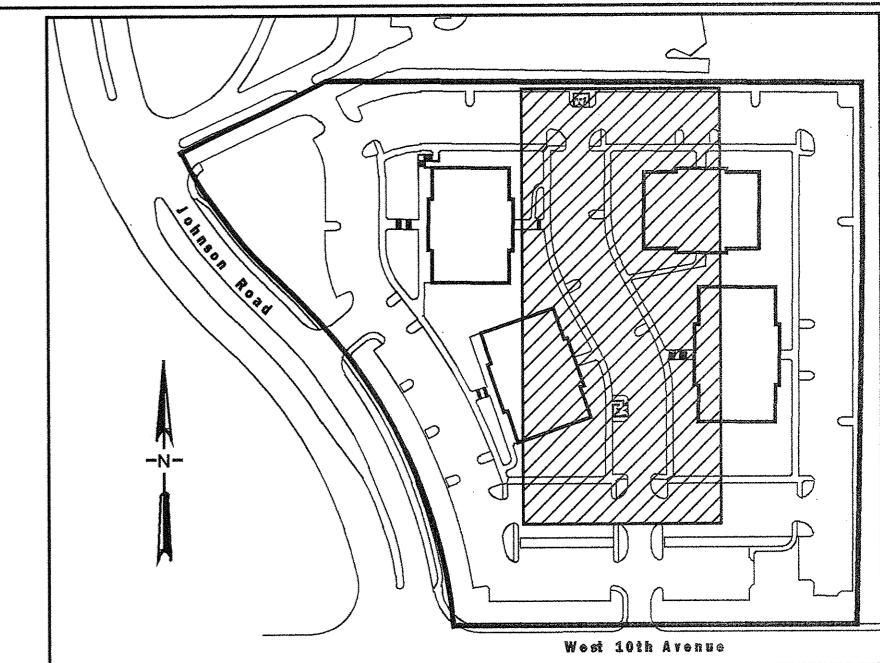


BENCH MARK:
 S 406 (1984), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ullyses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ullyses Street, 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5899.95 feet, NGVD 29 datum.

Flag Notes – Storm Sewer

- (61) 5' TYPE R CURB OPENING INLET, CDOT STANDARD.
- (62) 7' TYPE R CURB OPENING INLET, CDOT STANDARD.
- (63) NO. 13 COMBINATION INLET
- (64) GRATED AREA INLET
- (65) GOLDEN STANDARD 5' STORM SEWER MANHOLE. DO NOT ATTEMPT TO SET MANHOLE RING TO FINISH GRADE UPON INITIAL INSTALLATION. ADD ADJUSTING RINGS TO MEET GRADE AT TIME OF PAVING.
- (66) FLARED END SECTION TO MATCH PIPE. INSTALL CONCRETE FOREBAY, 8" CONCRETE IN CONFIGURATION SHOWN, SLOPED TO OUTLET.
- (67) ABANDON EXISTING 18" HDPE PIPE SOUTH OF NEW MANHOLE
- (68) DETENTION POND OUTLET STRUCTURE
- (69) STUB SERVICE LINE TO A POINT 5' FROM FOUNDATION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- (70) CONNECT LATERAL TO MAIN WITH SADDLE OR TEE, USING CARE TO ASSURE SOUND, TIGHT JOINT WITHOUT ALLOWING LATERAL TO PROTRUDE INTO MAIN.
- (71) 30' TRENCH DRAIN

UPON COMPLETION OF NEW POND OUTLET STRUCTURE AND STORM DRAIN OUTFALL, CUT BACK EXISTING SILT POND OUTLET, PLUG WITH CONCRETE AND ABANDON.



Key Map 1" = 200'

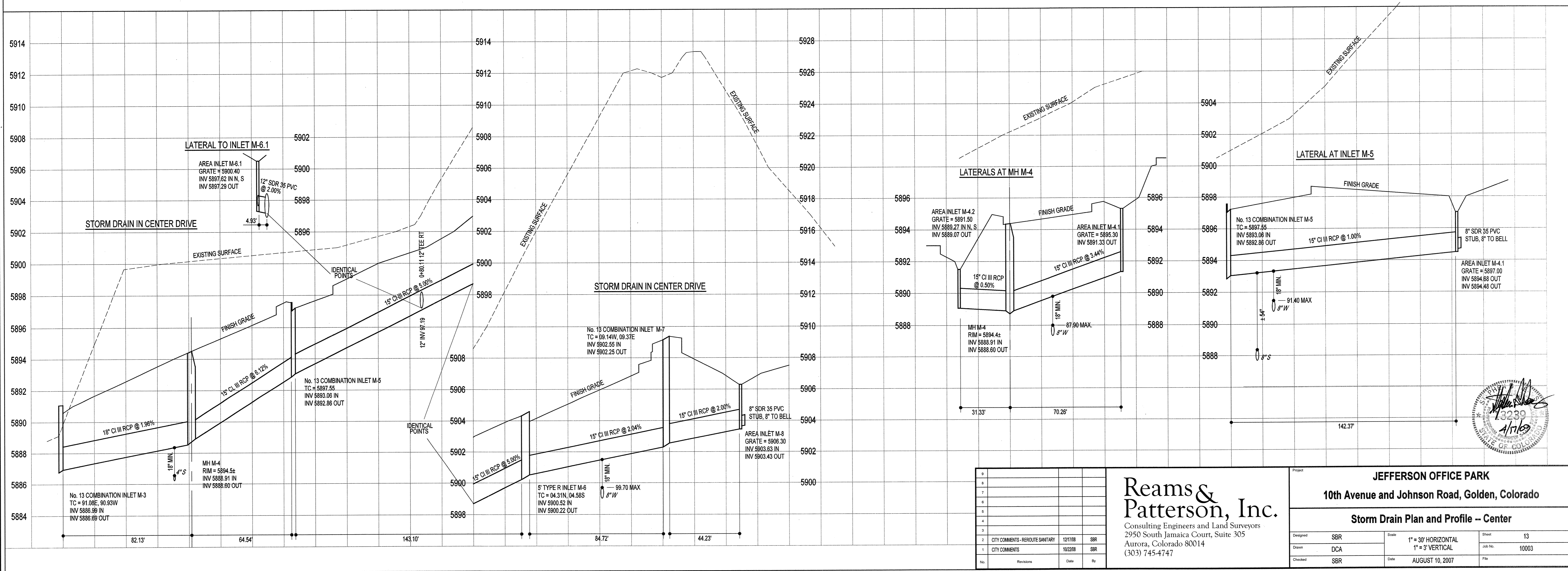
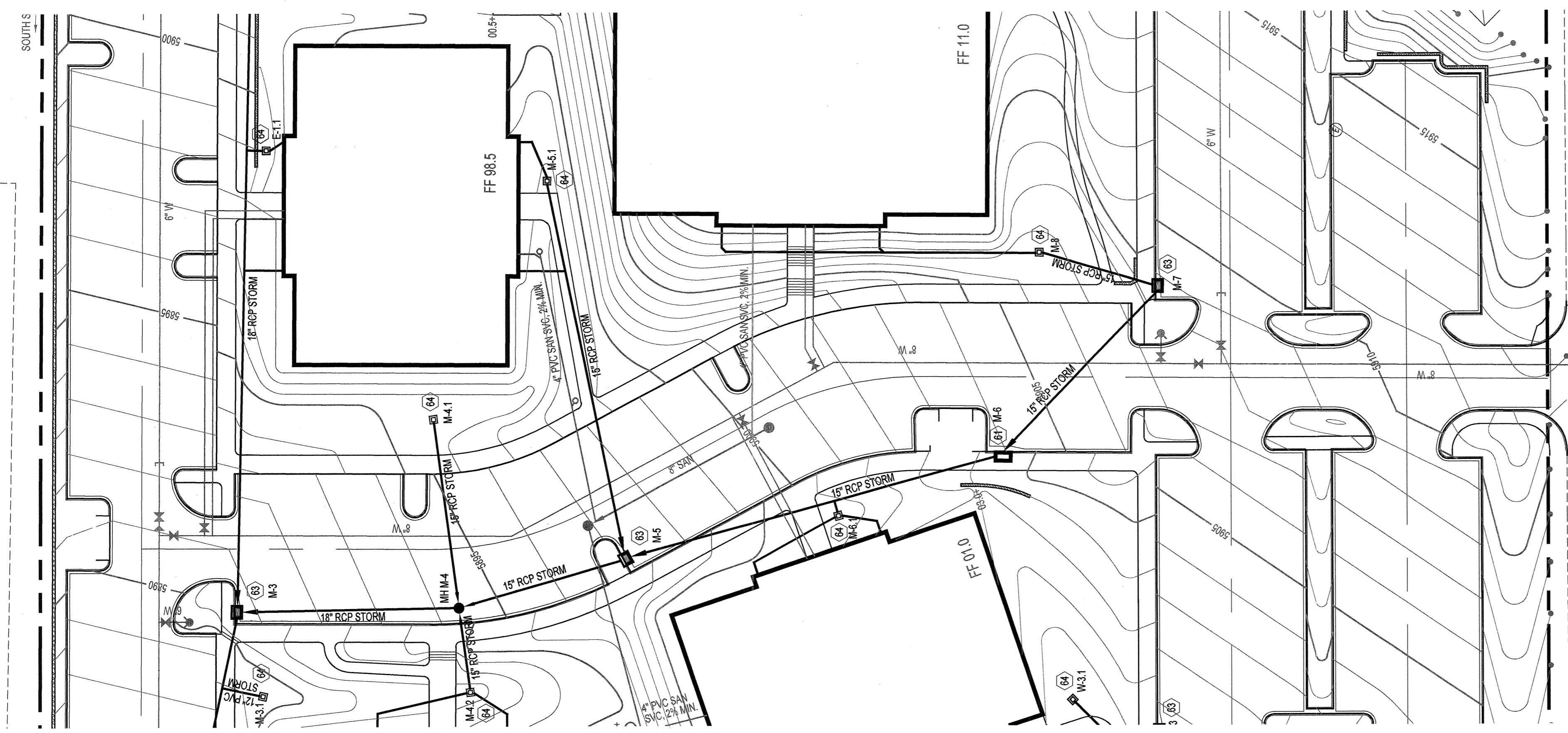
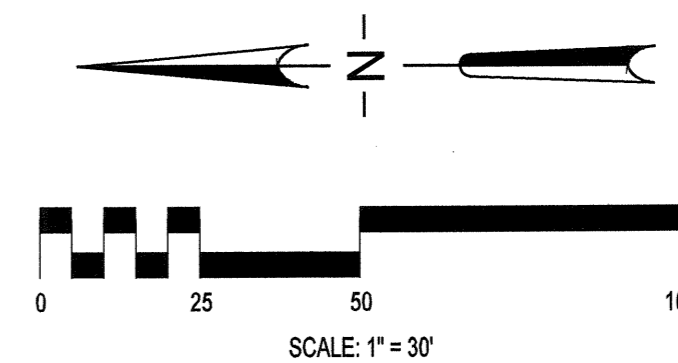


**Know what's below.
Call before you dig.**

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

BENCH MARK:

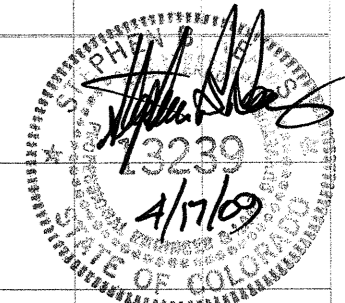
S 406 (1984), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ulysses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ulysses Street. 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5899.95 feet, NGVD 29 datum.

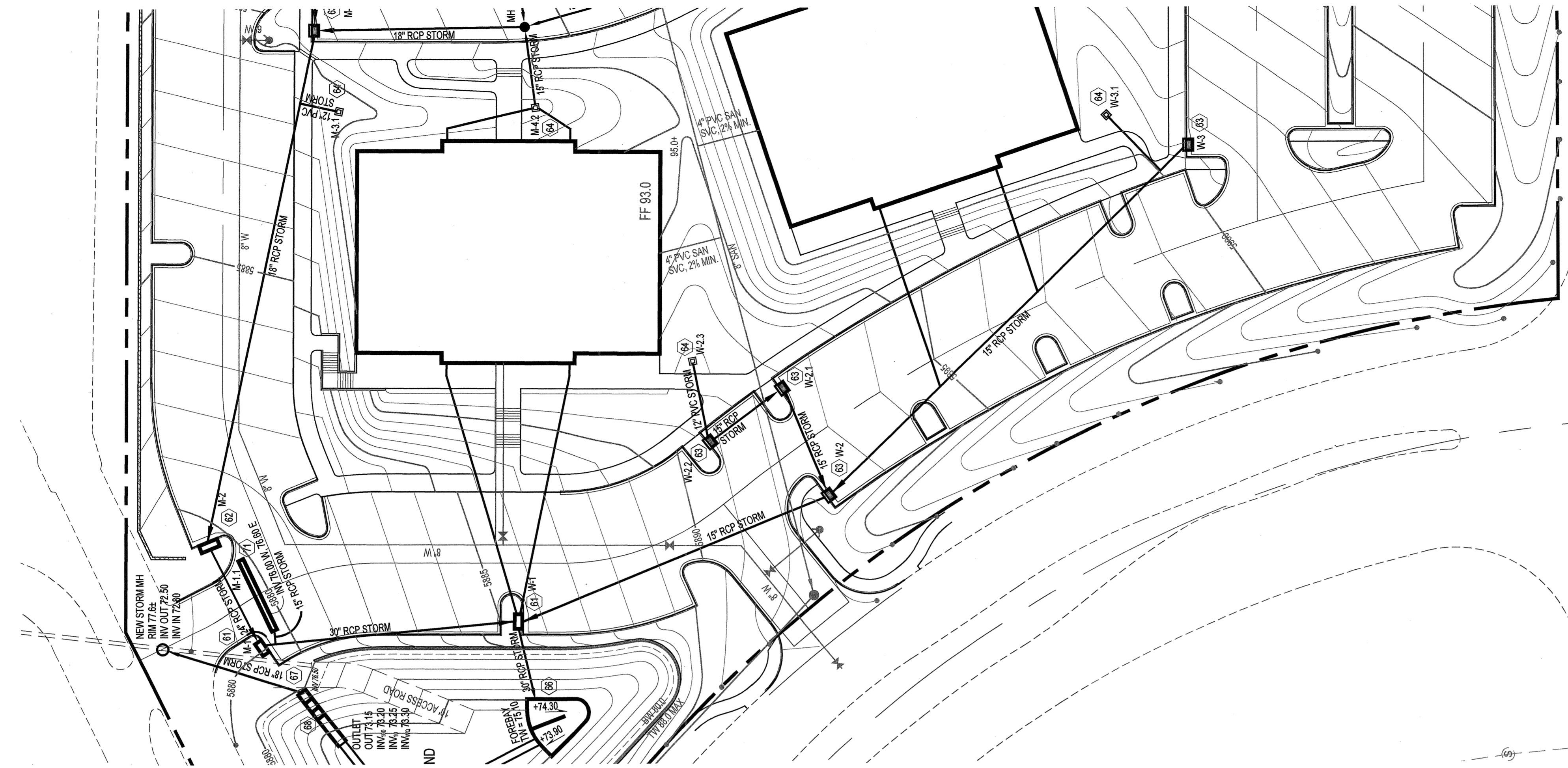


| No. | Revisions | Date | By |
|-----|----------------------------------|----------|-----|
| 1 | CITY COMMENTS - REROUTE SANITARY | 12/17/08 | SBR |
| 2 | CITY COMMENTS | 10/23/08 | SBR |

Reams & Patterson, Inc.
Consulting Engineers and Land Surveyors
2950 South Jamaica Court, Suite 305
Aurora, Colorado 80014
(303) 745-4747

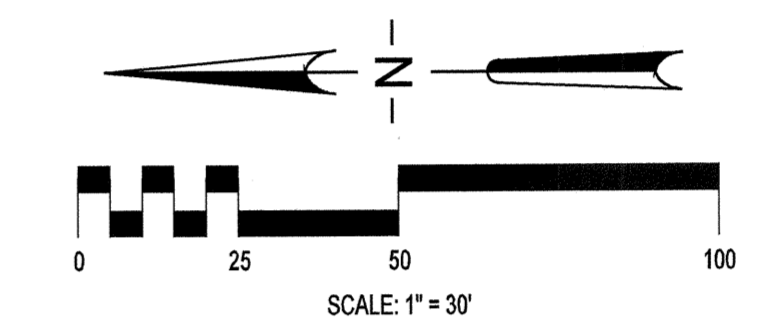
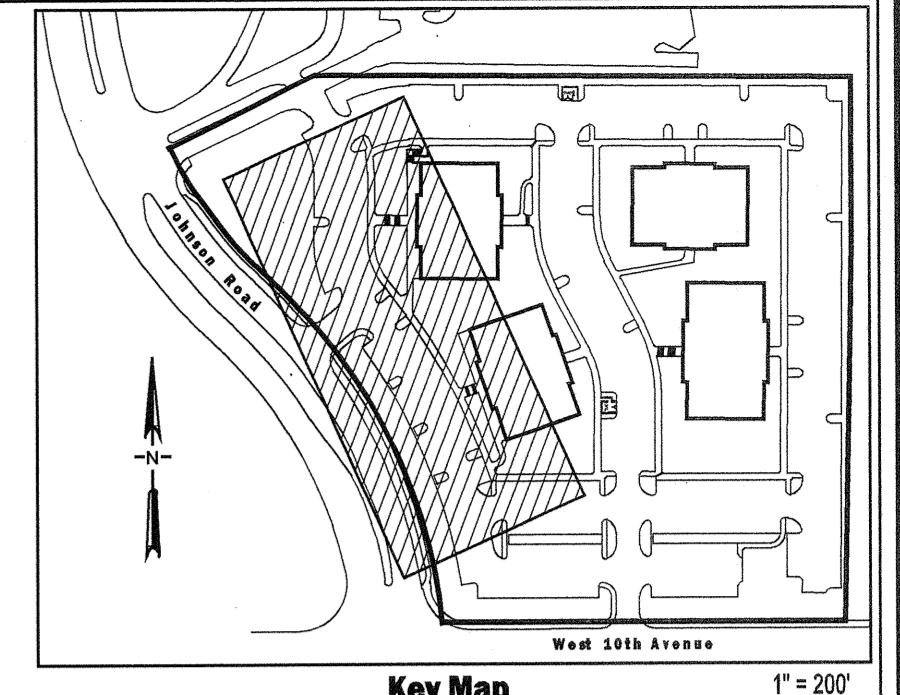
| Project | | | |
|--|-----|-----------------|---|
| JEFFERSON OFFICE PARK | | | |
| 10th Avenue and Johnson Road, Golden, Colorado | | | |
| Storm Drain Plan and Profile -- Center | | | |
| Designed | SBR | Date | 1" = 30' HORIZONTAL 1" = 3' VERTICAL |
| Drawn | DCA | Date | Sheet No. 13 |
| Checked | SBR | Date | Job No. 10003 |
| | | Date | File |
| | | AUGUST 10, 2007 | |





- Flag Notes – Storm Sewer**
- (61) 5' TYPE R CURB OPENING INLET, CDOT STANDARD.
 - (62) 7' TYPE R CURB OPENING INLET, CDOT STANDARD.
 - (63) NO. 13 COMBINATION INLET
 - (64) GRATED AREA INLET
 - (65) GOLDEN STANDARD 5' STORM SEWER MANHOLE. DO NOT ATTEMPT TO SET MANHOLE RING TO FINISH GRADE UPON INITIAL INSTALLATION; ADD ADJUSTING RINGS TO MEET GRADE AT TIME OF PAVING.
 - (66) FLARED END SECTION TO MATCH PIPE. INSTALL CONCRETE FOREBAY, 6" CONCRETE IN CONFIGURATION SHOWN, SLOPED TO OUTLET.
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 - (68) DETENTION POND OUTLET STRUCTURE
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 - (71) 30" TRENCH DRAIN

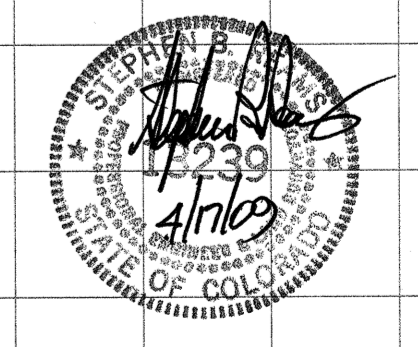
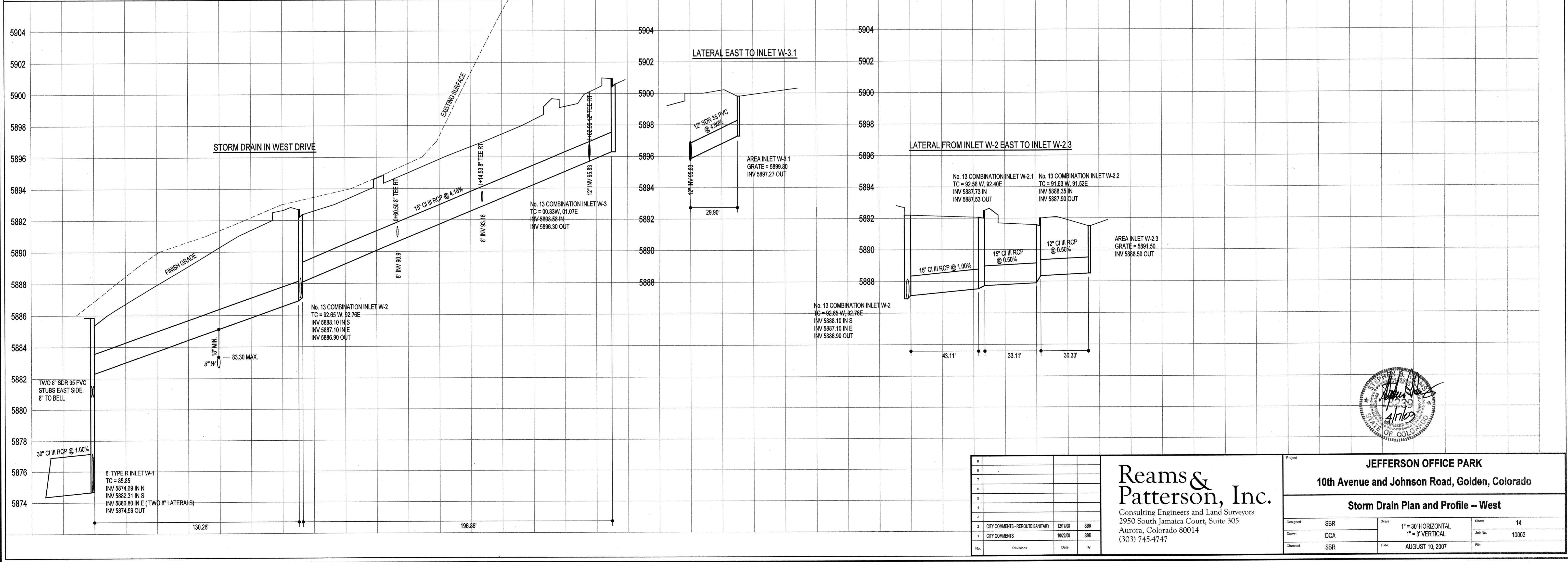
UPON COMPLETION OF NEW POND OUTLET STRUCTURE AND STORM DRAIN OUTFALL, CUT BACK EXISTING SILT POND OUTLET, PLUG WITH CONCRETE AND ABANDON.



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

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

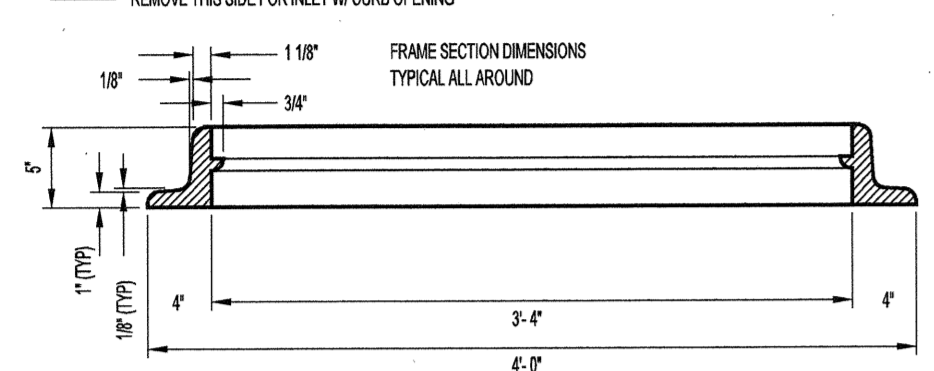
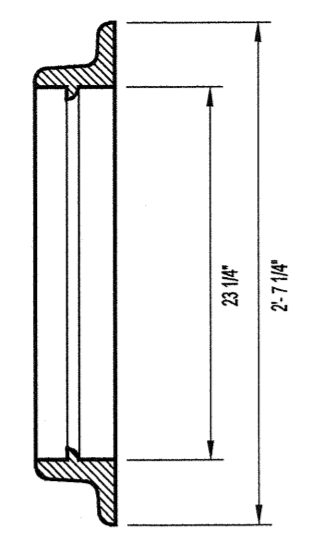
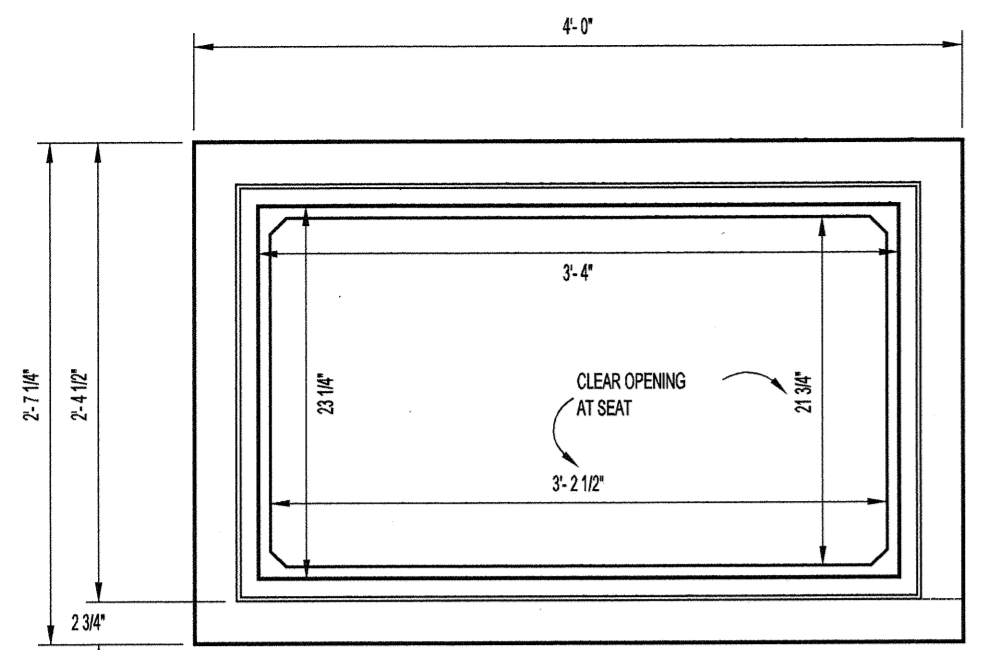
BENCHMARK:
S 406 (1984), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ullyses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ullyses Street, 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5899.95 feet, NGVD 29 datum.



| No. | Revisions | Date | By |
|-----|------------------------------------|----------|-----|
| 2 | CITY COMMENTS - RESURFACE SANITARY | 12/17/08 | SBR |
| 1 | CITY COMMENTS | 10/22/08 | SBR |

Reams & Patterson, Inc.
Consulting Engineers and Land Surveyors
2950 South Jamaica Court, Suite 305
Aurora, Colorado 80014
(303) 745-4747

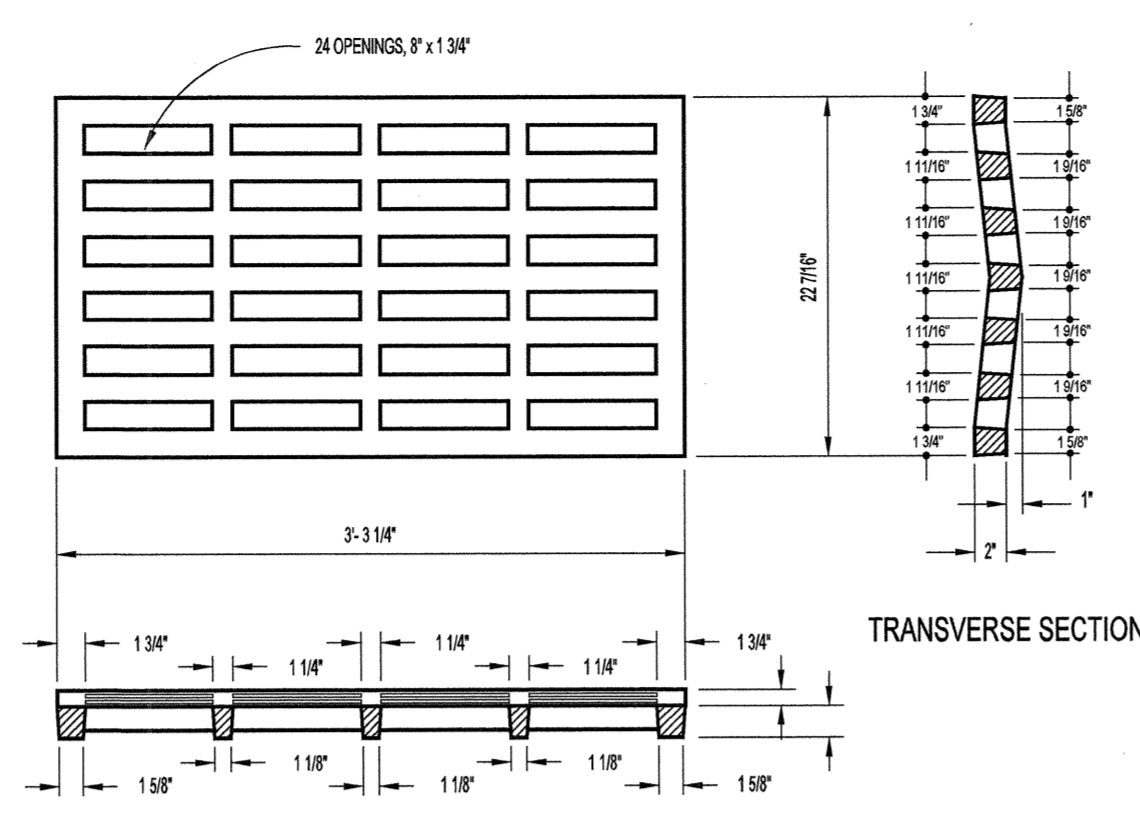
| | | | |
|--|-----|---------|---|
| Project | | | |
| JEFFERSON OFFICE PARK | | | |
| 10th Avenue and Johnson Road, Golden, Colorado | | | |
| Storm Drain Plan and Profile -- West | | | |
| Designed | SBR | Scale | 1" = 30' HORIZONTAL 1" = 3' VERTICAL |
| Drawn | DCA | Date | AUGUST 10, 2007 |
| Checked | SBR | Sheet | 14 |
| | | Job No. | 10003 |
| | | File | |



No. 13 INLET FRAME
1" = 1'-0"

TRANSVERSE SECTION

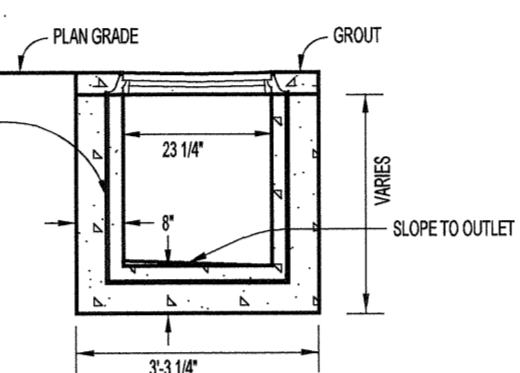
MATERIAL FOR NO. 13 INLET FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO AASTM STANDARD SPECIFICATION 712, DESIGNED FOR H-20 LOADING.



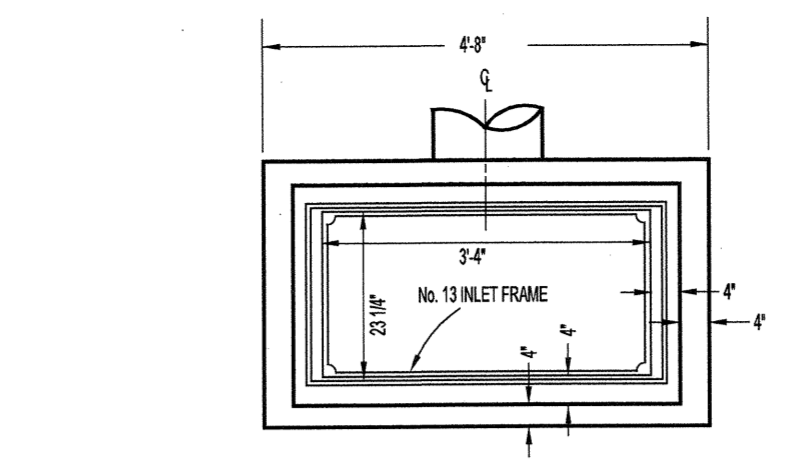
TRANSVERSE SECTION



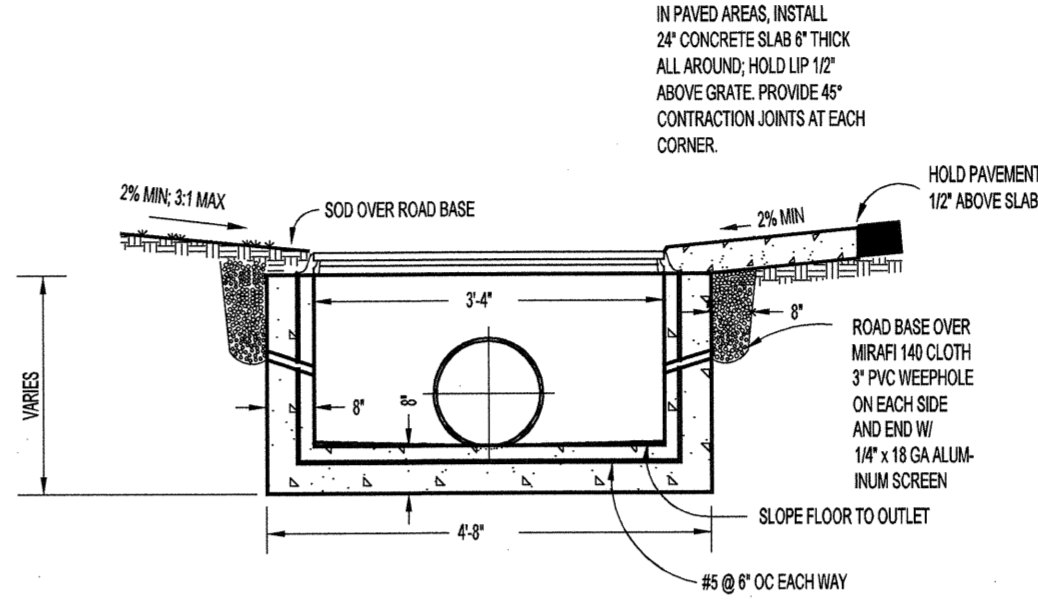
No. 13 INLET GRATE
1" = 1'-0"



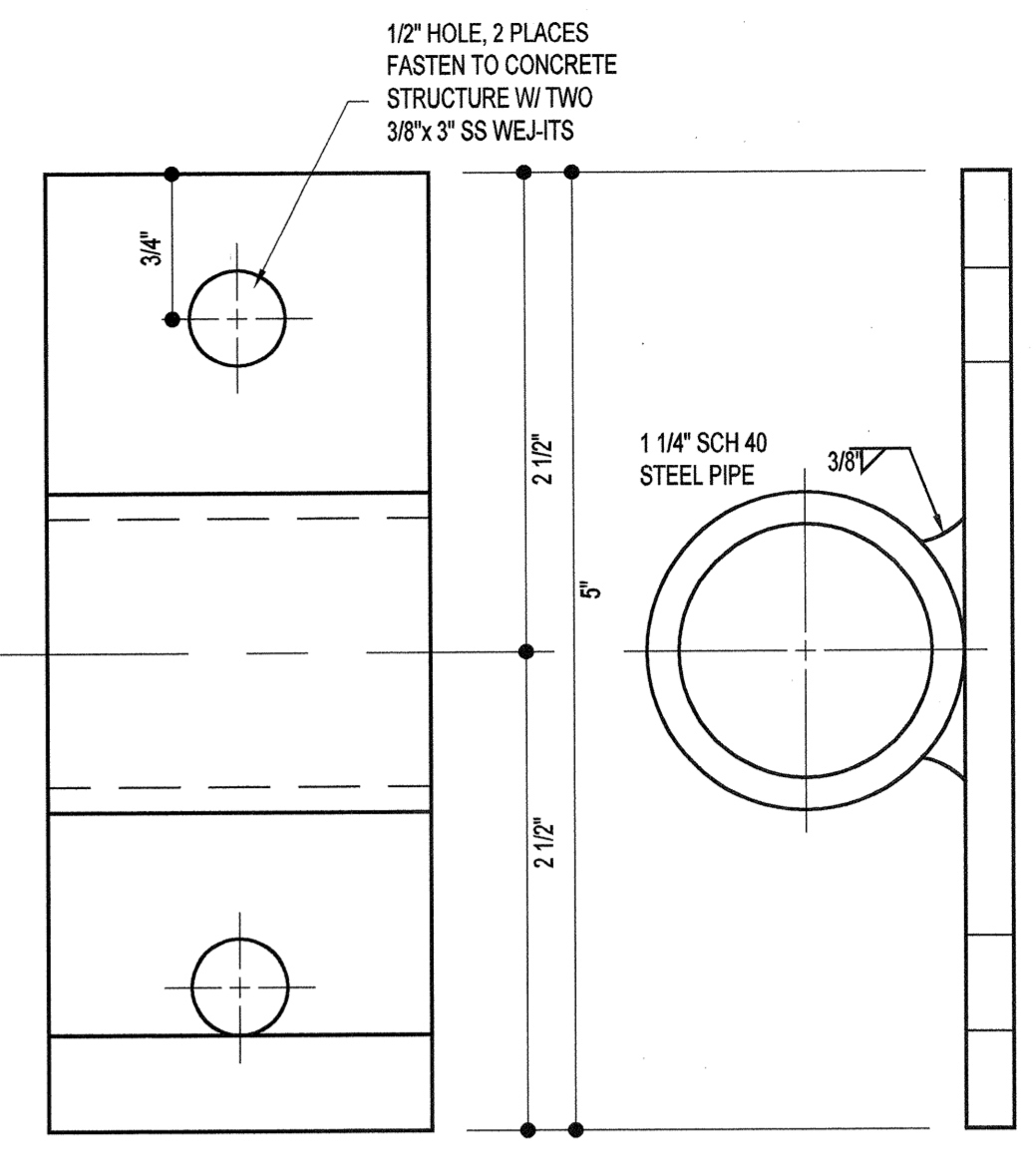
No. 13 INLET SECTION
1/2" = 1'-0"



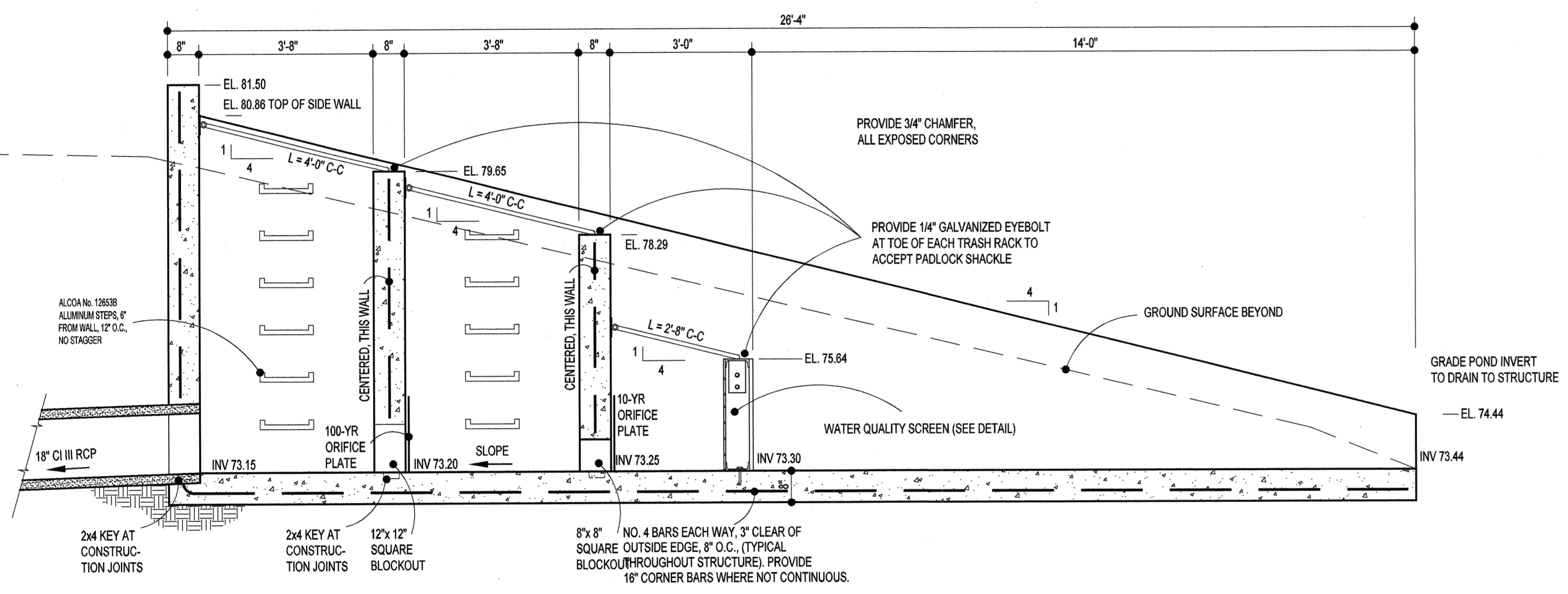
No. 13 SINGLE INLET PLAN
1/2" = 1'-0"



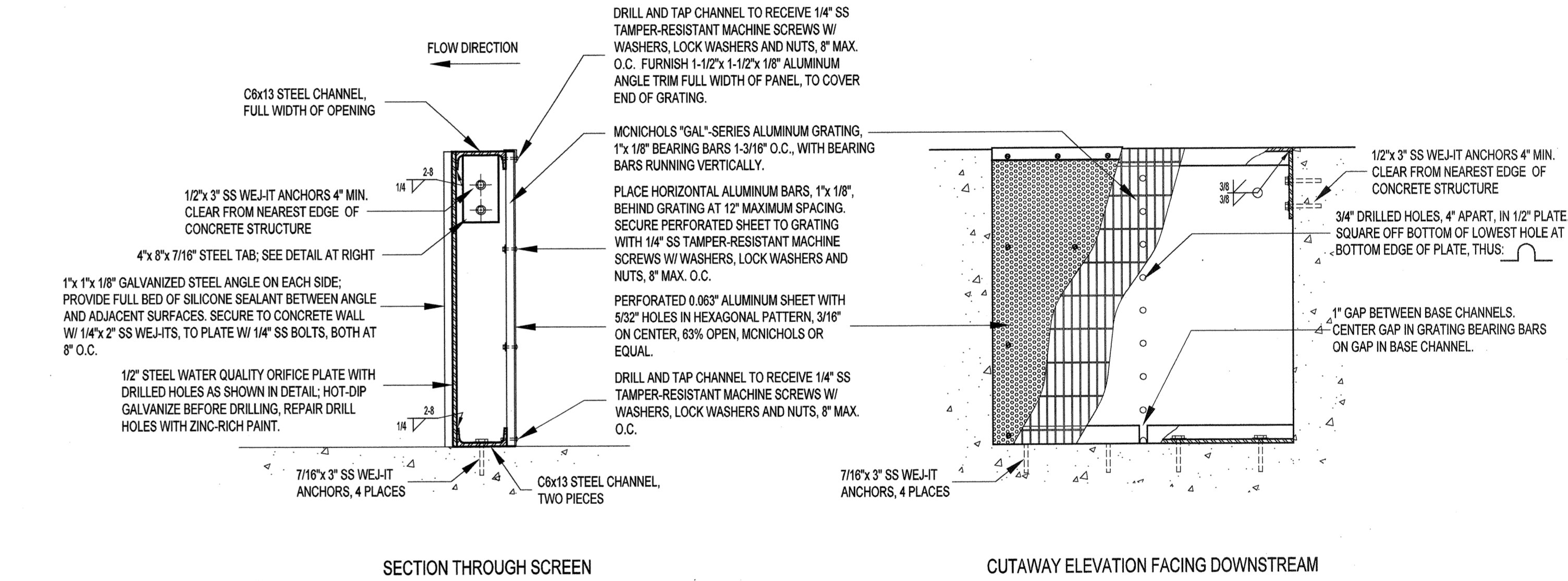
No. 13 SINGLE INLET LONGITUDINAL SECTION
1/2" = 1'-0"



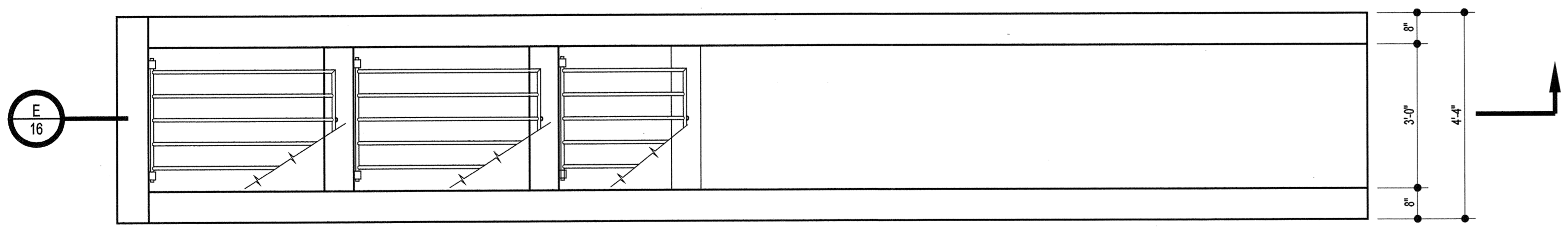
TRASH RACK MOUNTING BRACKET
FULL SIZE



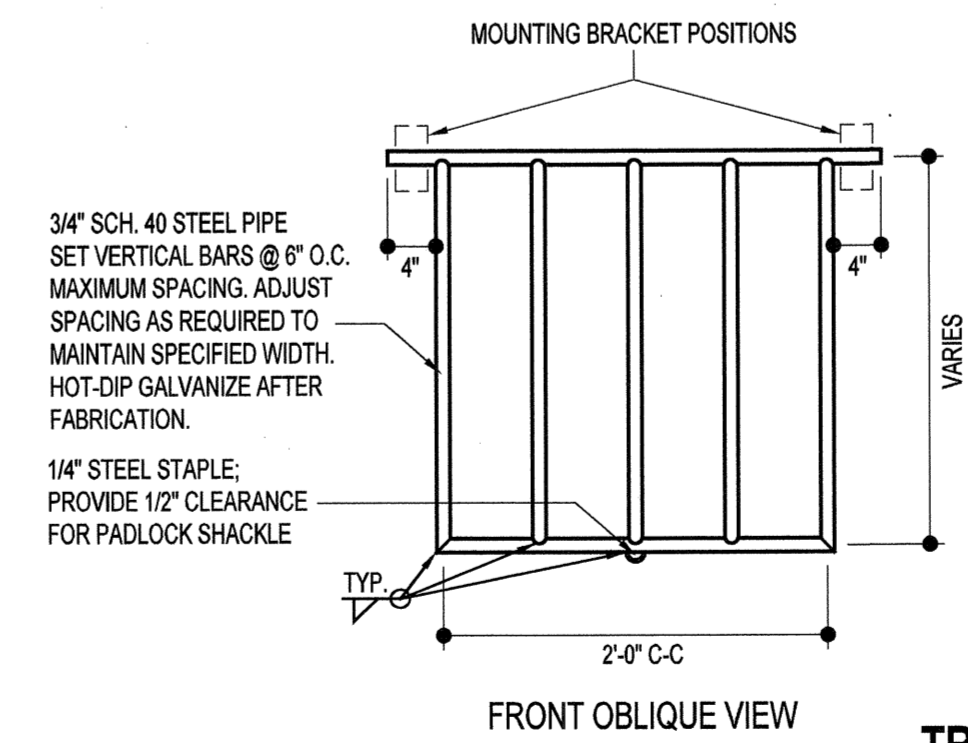
POND OUTLET LONGITUDINAL SECTION
1/2" = 1'-0"



WATER QUALITY SCREEN DETAIL
1" = 1'-0"

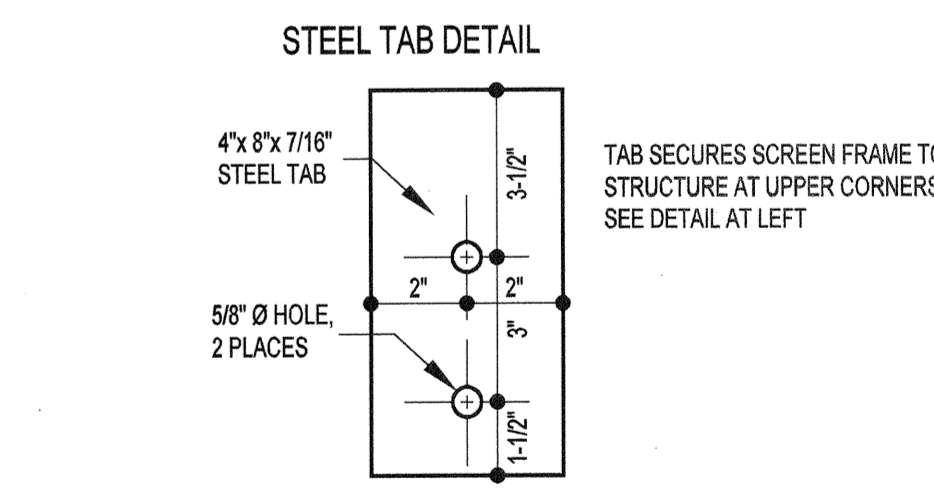


POND OUTLET PLAN
1/2" = 1'-0"

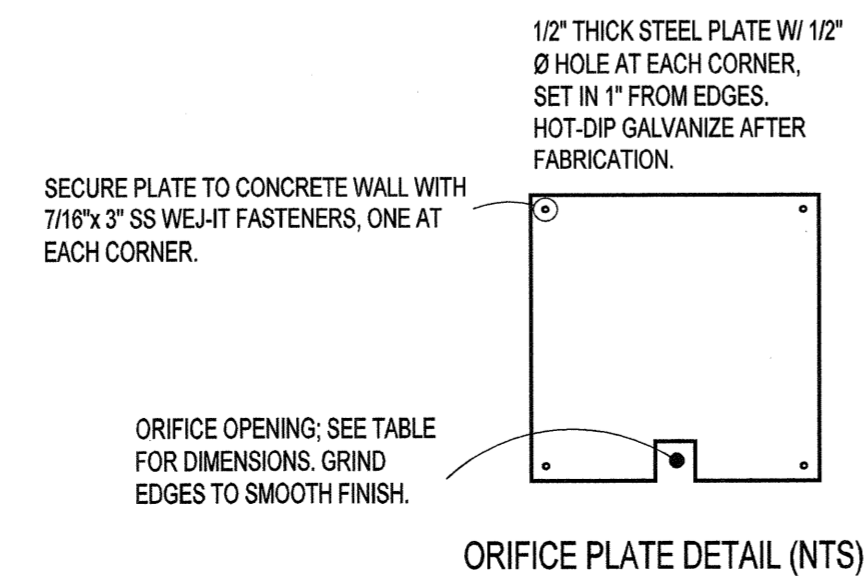


TRASH RACK DETAILS

| LOCATION | LENGTH | SLOPE, S | MOUNT HEIGHT, H |
|-------------|--------|----------|-----------------|
| UPPER RACK | 4'-0" | 4 | 12 1/4" |
| MIDDLE RACK | 4'-0" | 4 | 12 1/4" |
| LOWER RACK | 2'-8" | 4 | 8 3/8" |

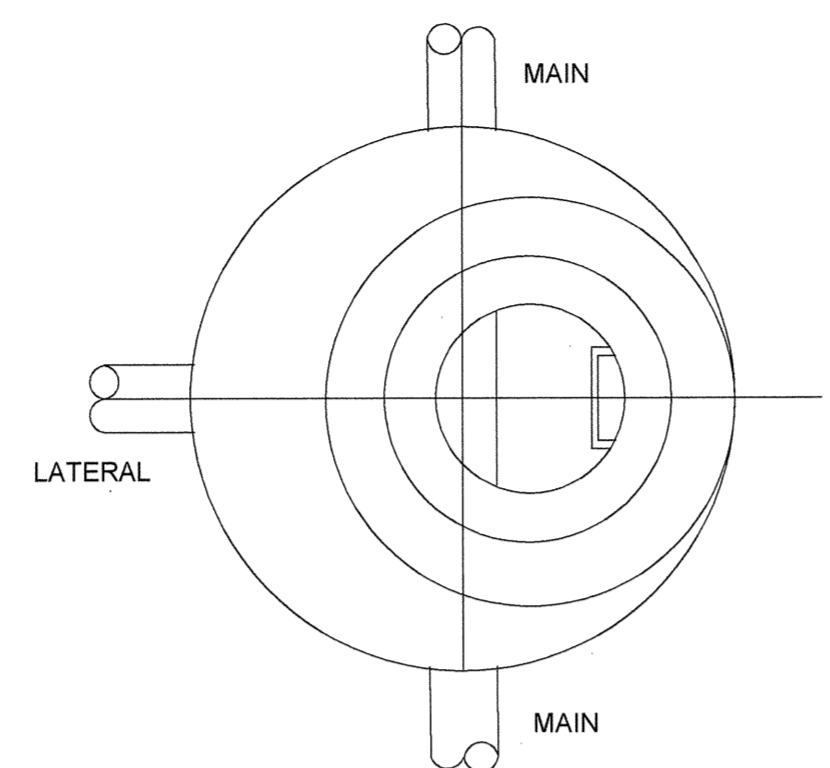
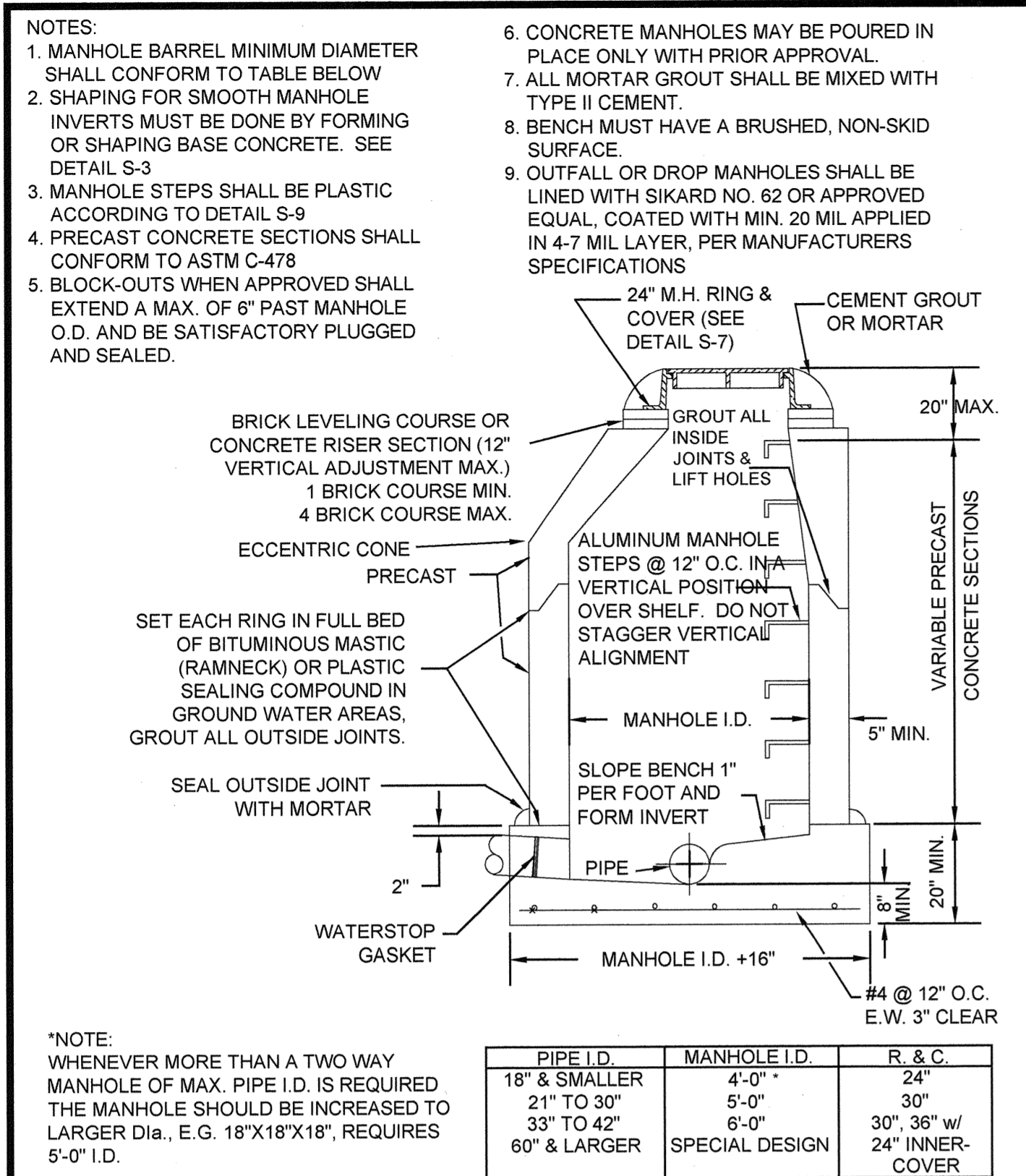


| PLATE | PLATE WIDTH | PLATE HEIGHT | ORIFICE WIDTH | ORIFICE HEIGHT |
|----------|-------------|--------------|---------------|----------------|
| 10-YEAR | 1'-4" | 1'-4" | 6 3/8" | 5" |
| 100-YEAR | 2'-0" | 2'-0" | 10" | 9 5/8" |



BENCH MARK:
S 406 (1984), a stainless steel rod accessed through a 5-inch logo cap at the intersection of Ullyses Street and West 9th Avenue, at the northeast corner of a cemetery, 40.0' west of the center of Ullyses Street, 53.1 feet north of the center of the north entrance to the cemetery, 1.0' east of a fence. Elevation 5899.95 feet, NGVD 29 datum.

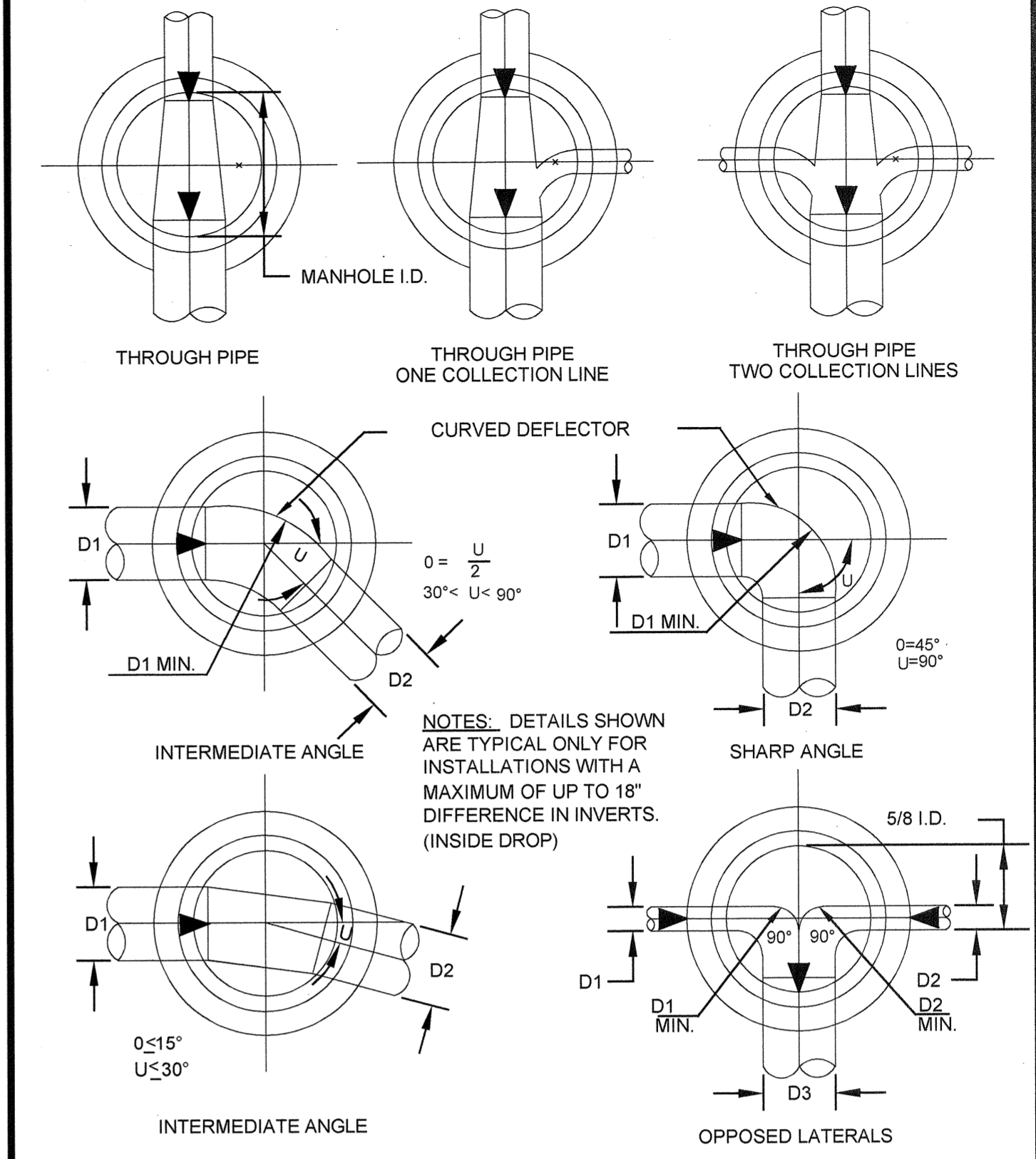
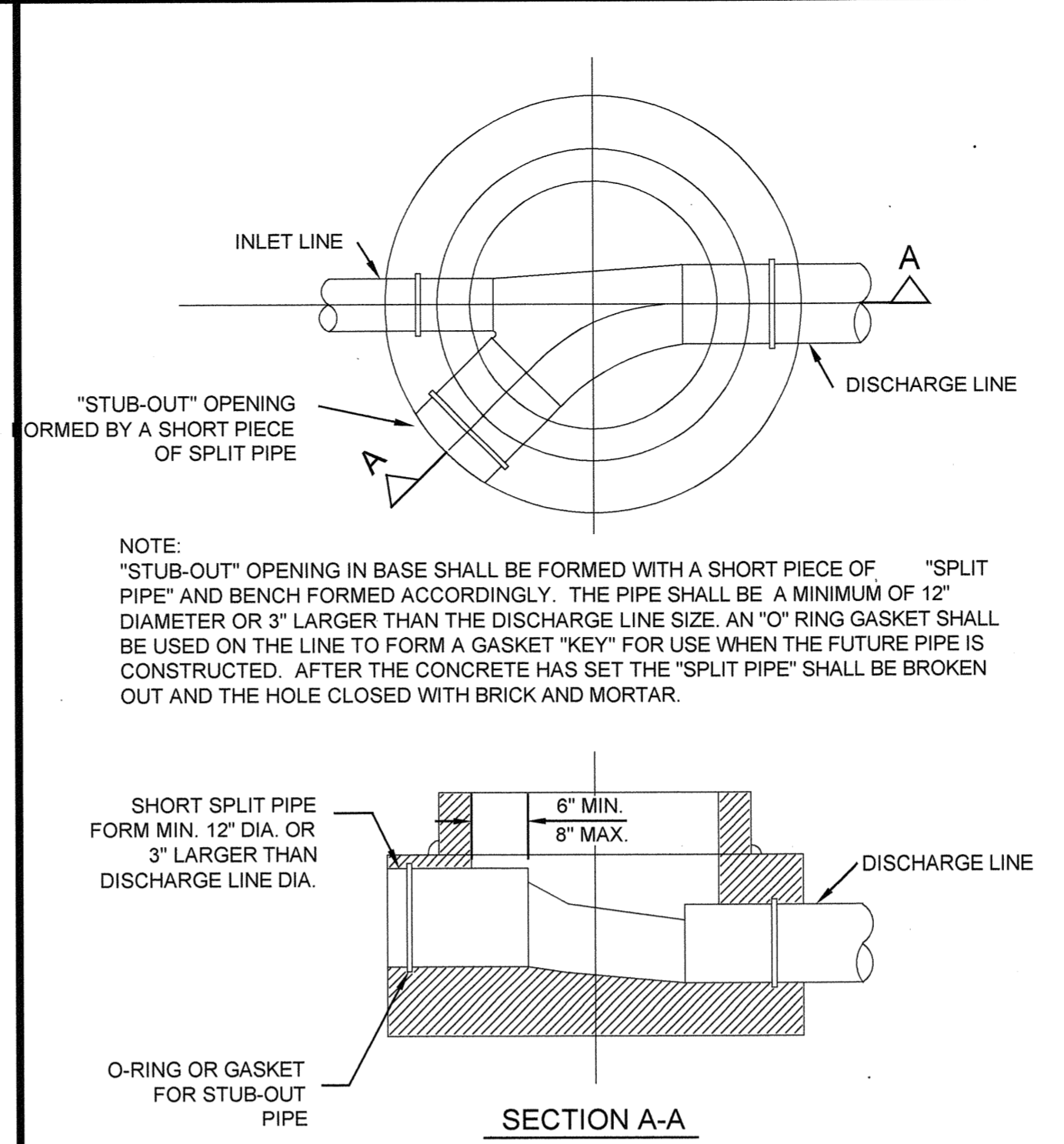
| | | | |
|--|--|--|--|
| Reams & Patterson, Inc. Consulting Engineers and Land Surveyors 2950 South Jamaica Court, Suite 305 Aurora, Colorado 80014 (303) 745-4747 | | JEFFERSON OFFICE PARK 10th Avenue and Johnson Road, Golden, Colorado Details | |
| Project: _____ Design: SBR Drawn: DCA Checked: SBR | Scale: AS SHOWN Date: AUGUST 10, 2007 | Sheet: 17 Job No.: 10003 File: _____ | City Comments: 1002208 SBR Revisions: _____ Date: _____ By: _____ |



NOTES:

RING & COVER ELEVATION SHALL BE IN ACCORDANCE WITH THE CITY OF GOLDEN REQUIREMENTS. SEE DETAILS S-7 & S-8 FOR RING AND COVER.

SET ACCESS INTO MANHOLE ON BENCH SIDE OF MAIN AS SHOWN.



APPROVED *Dan Heit*
DIRECTOR OF PUBLIC WORKS

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

PRECAST MANHOLE

SCALE: NTS

DATE: DEC 2003

DETAIL NO. S-1

APPROVED *Dan Heit*
DIRECTOR OF PUBLIC WORKS

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

PRECAST MANHOLE (PLAN VIEW)

SCALE: NTS

DATE: DEC 2003

DETAIL NO. S-1A

APPROVED *Dan Heit*
DIRECTOR OF PUBLIC WORKS

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

STUB-OUT MANHOLE

SCALE: NTS

DATE: DEC 2003

DETAIL NO. S-2

APPROVED *Dan Heit*
DIRECTOR OF PUBLIC WORKS

CITY OF GOLDEN

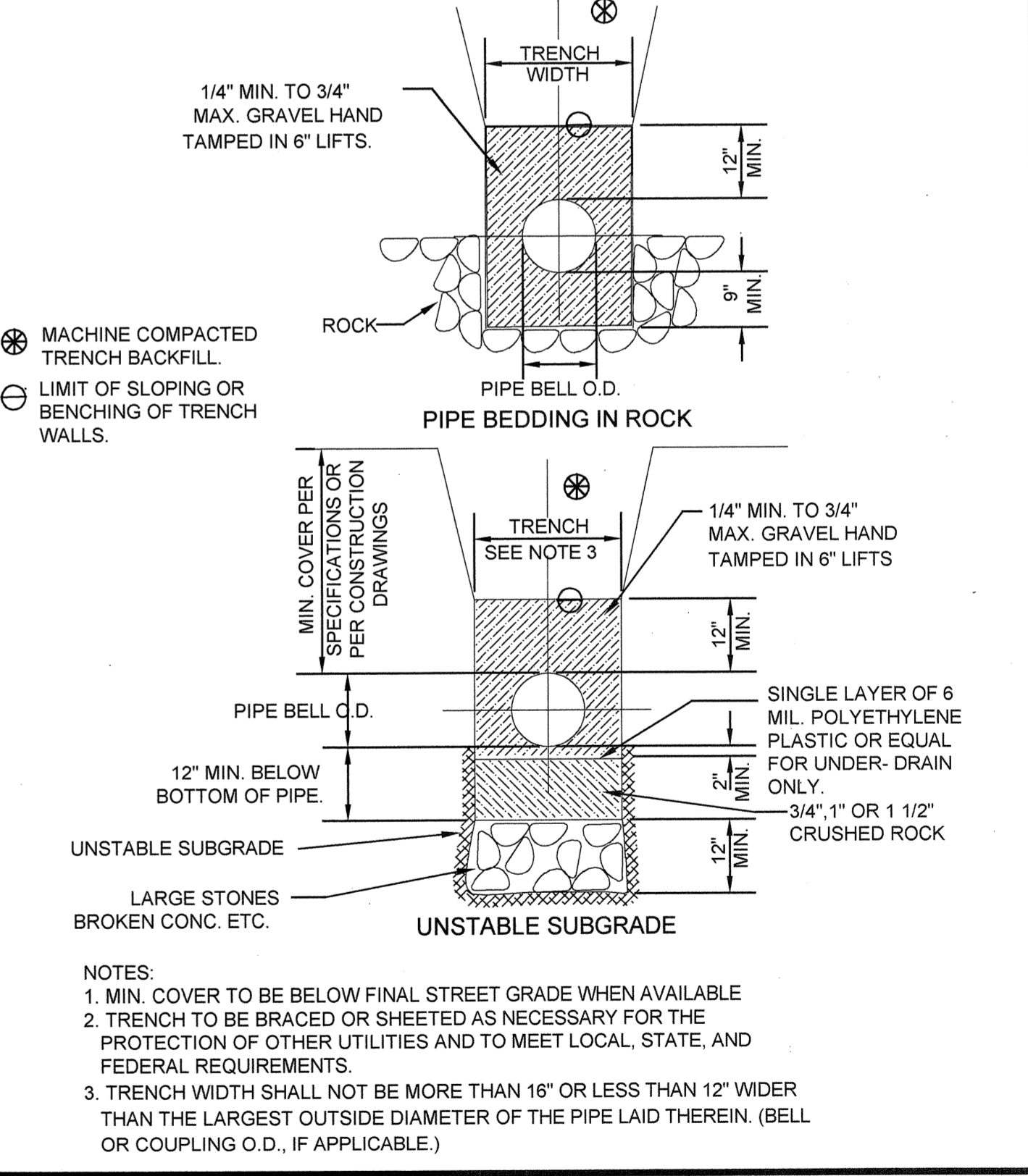
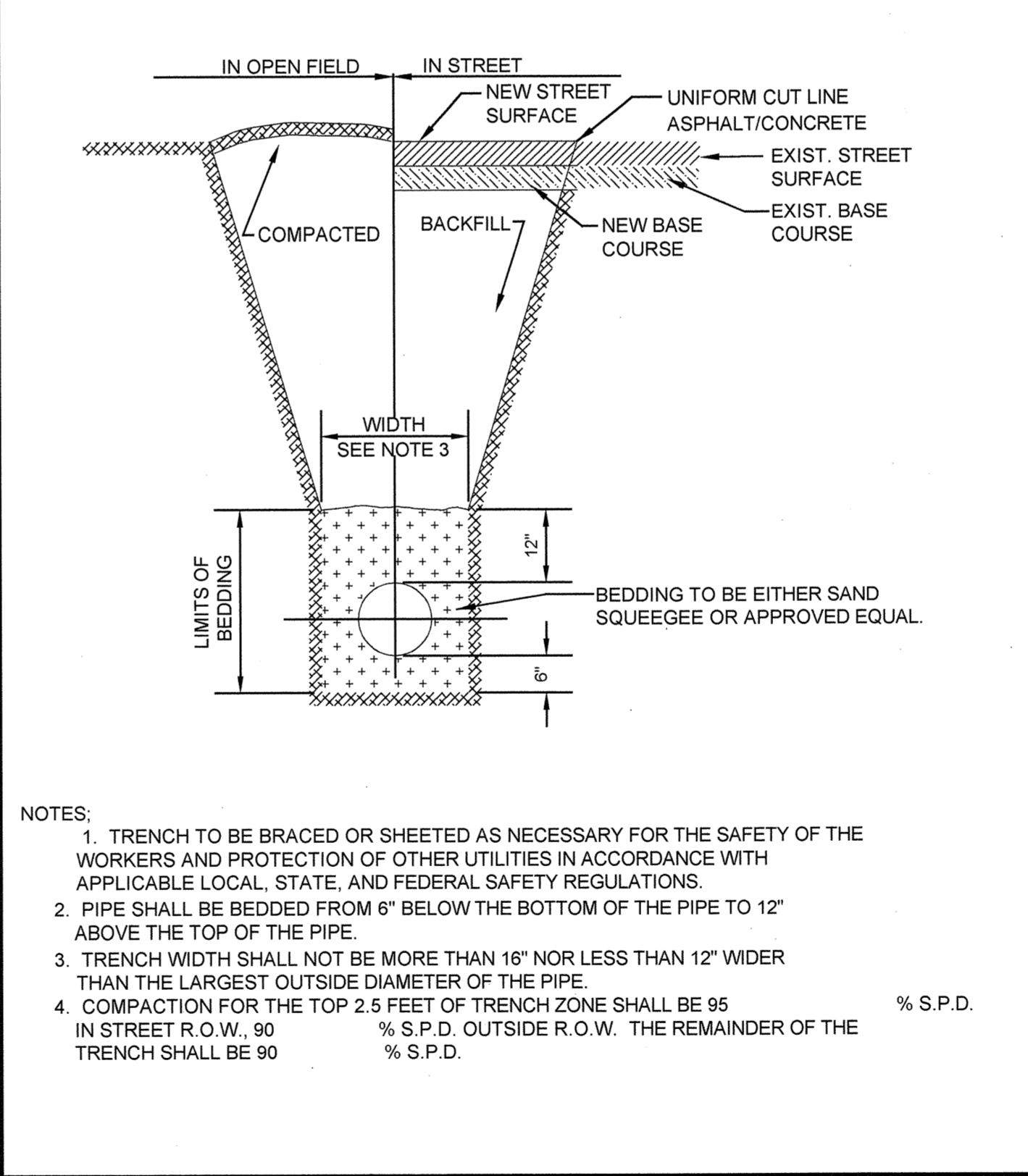
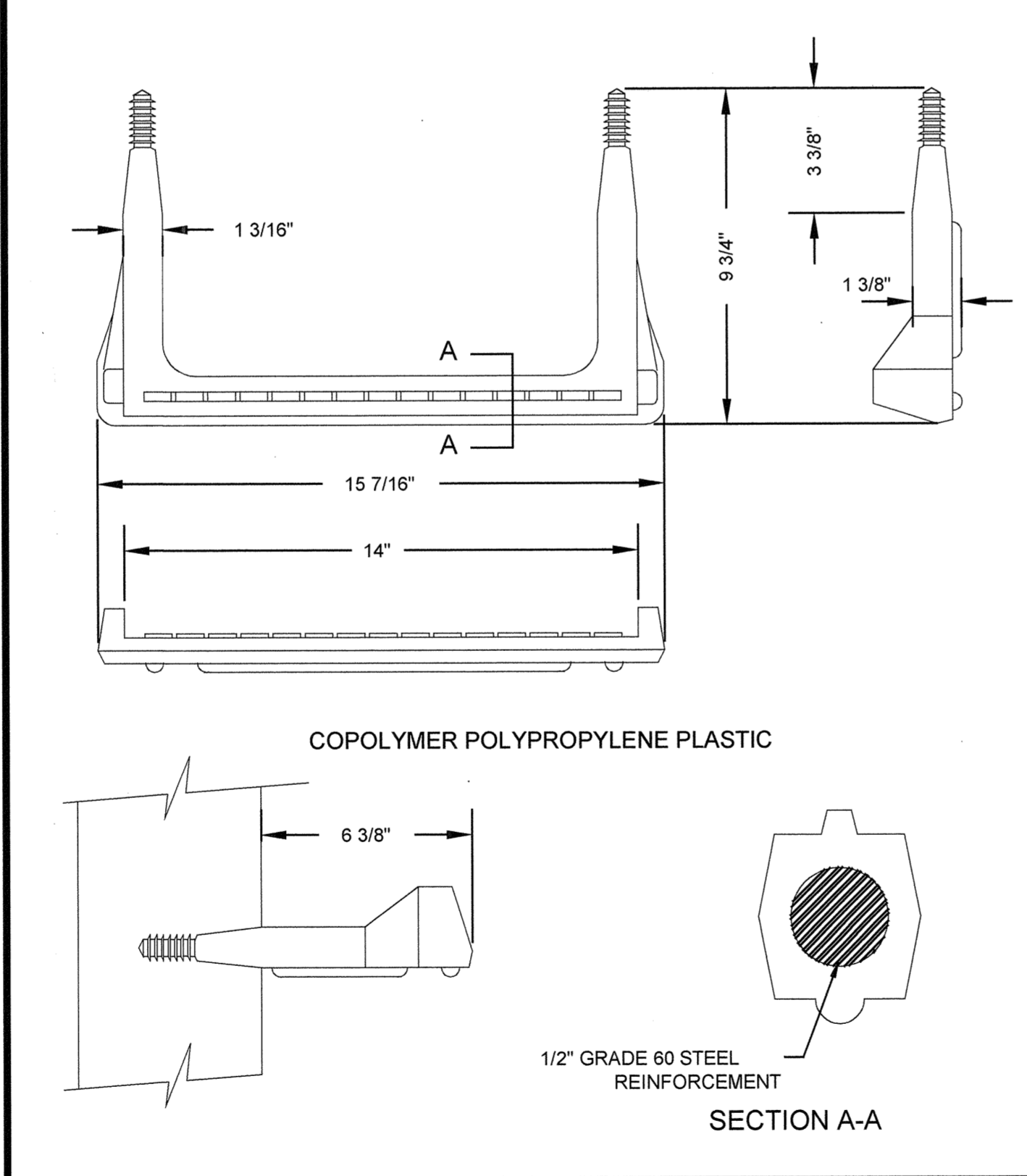
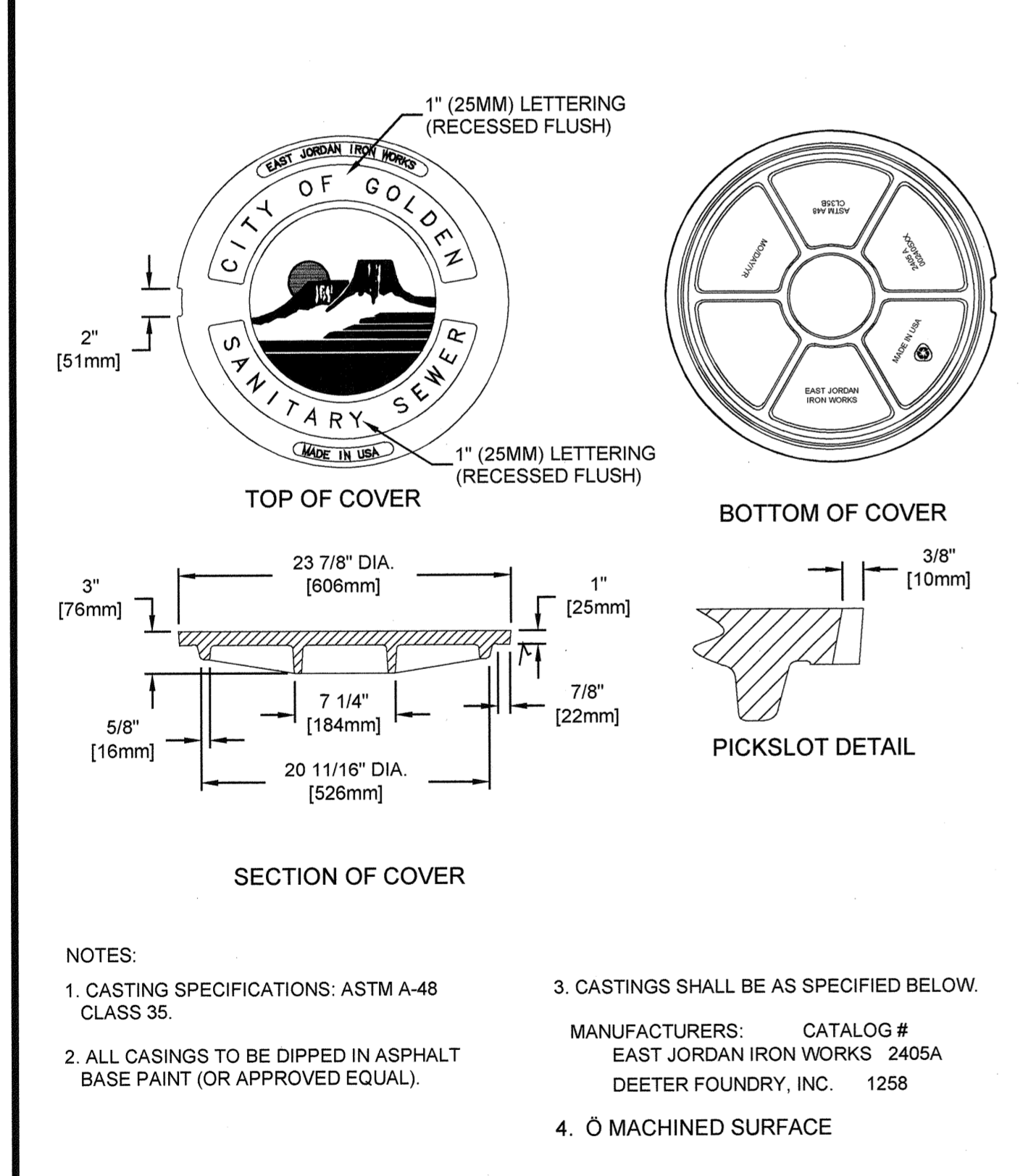
DEPARTMENT OF PUBLIC WORKS

MANHOLE BASE DEFLECTOR

SCALE: NTS

DATE: DEC 2003

DETAIL NO. S-3



APPROVED *Dan Heit*
DIRECTOR OF PUBLIC WORKS

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

24" MANHOLE RING AND COVER

SCALE: NTS

DATE: DEC 2003

DETAIL NO. S-7

APPROVED *Dan Heit*
DIRECTOR OF PUBLIC WORKS

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

PLASTIC MANHOLE STEP

SCALE: NTS

DATE: DEC 2003

DETAIL NO. S-9

APPROVED *Dan Heit*
DIRECTOR OF PUBLIC WORKS

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

STANDARD BEDDING DETAIL

SCALE: NTS

DATE: DEC 2003

DETAIL NO. S-11

APPROVED *Dan Heit*
DIRECTOR OF PUBLIC WORKS

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

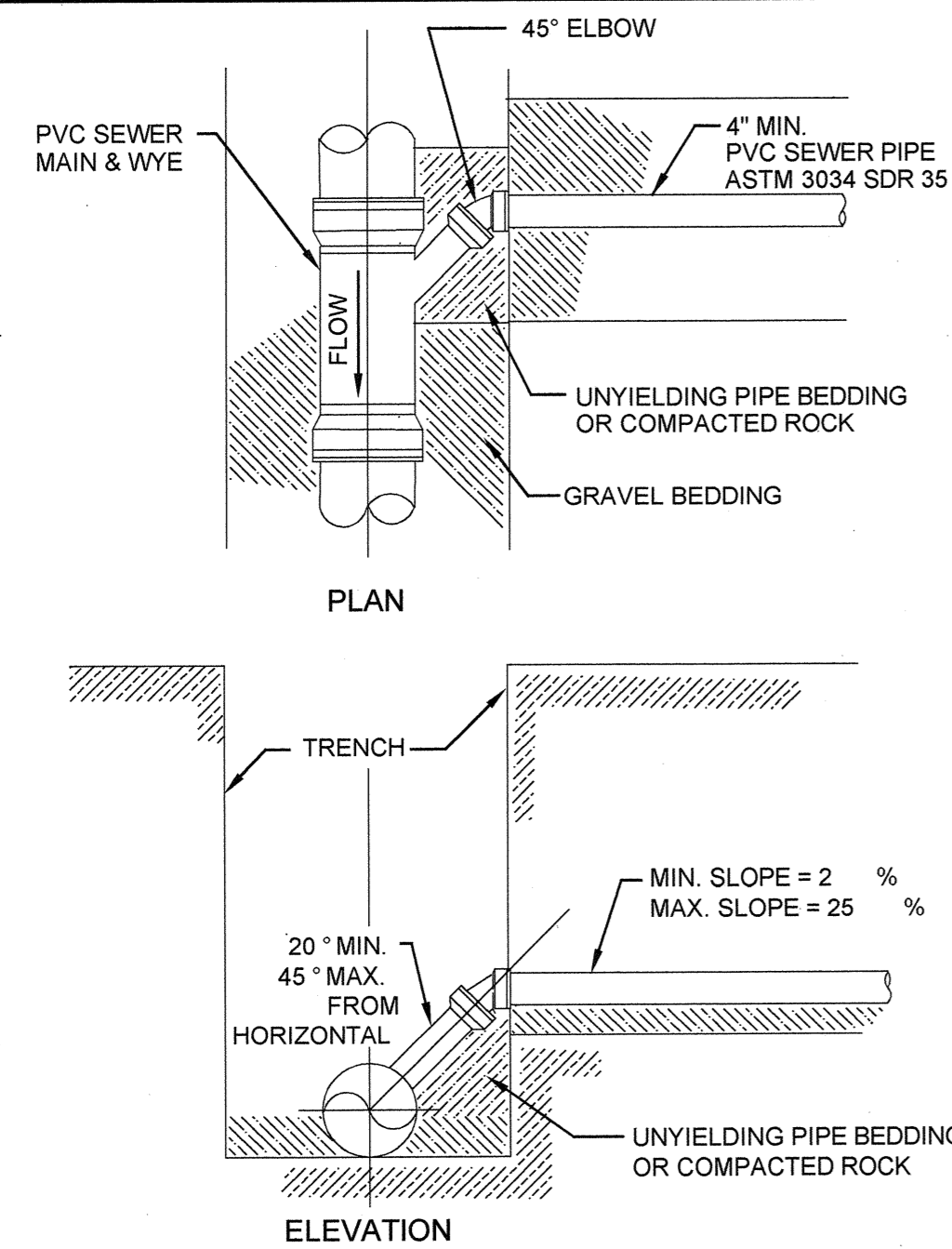
SPECIAL BEDDING DETAIL

SCALE: NTS

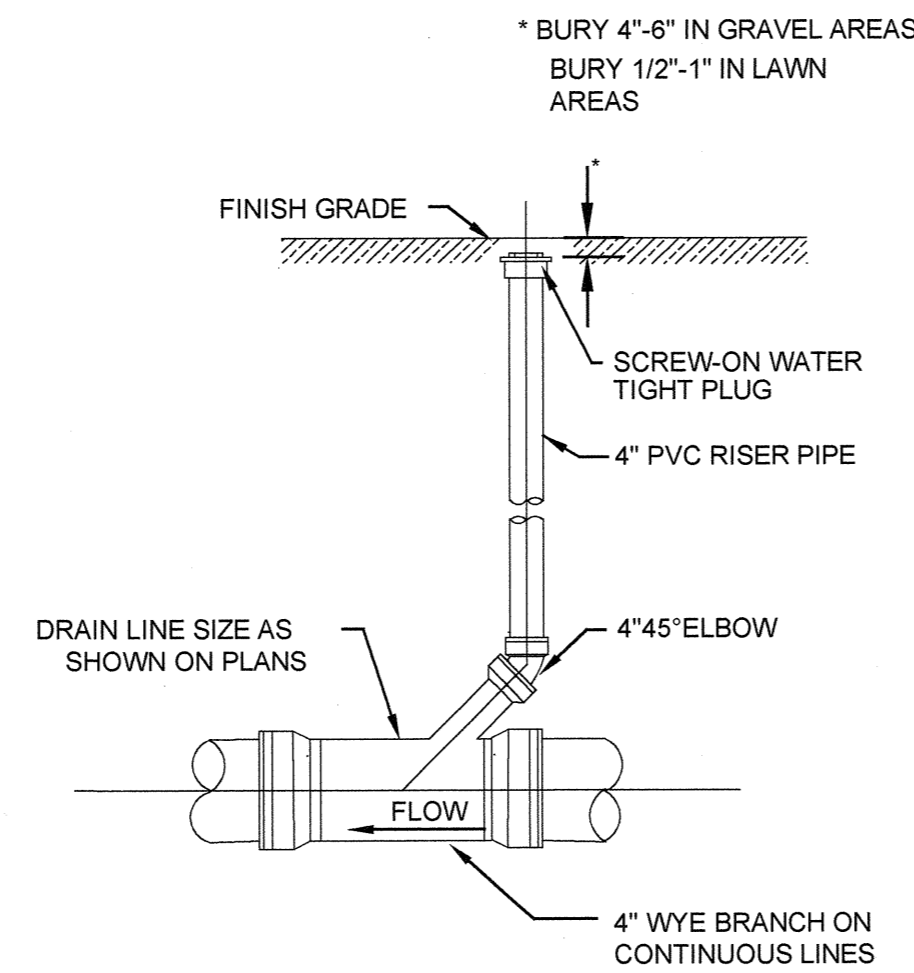
DATE: DEC 2003

DETAIL NO. S-12

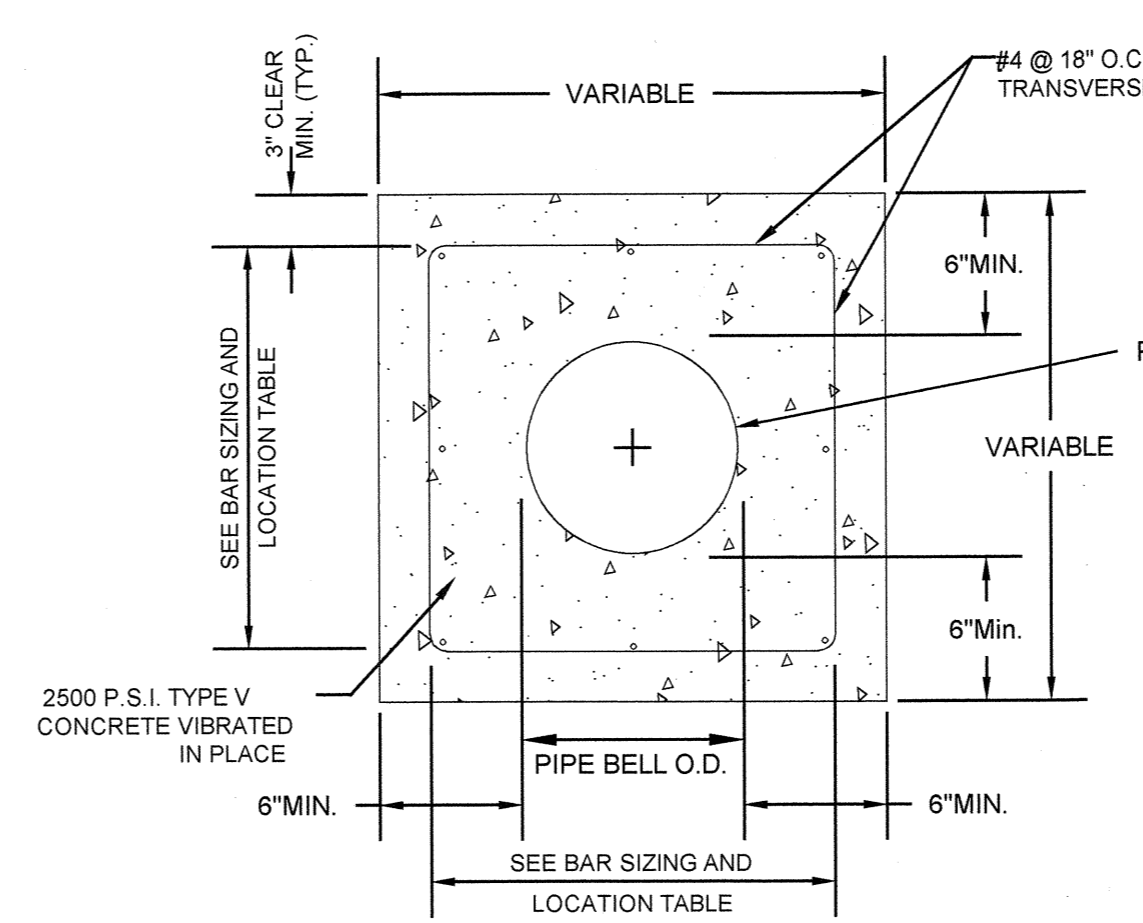
| | | | |
|---|--|--|--|
| Reams & Patterson, Inc. | | JEFFERSON OFFICE PARK | |
| Consulting Engineers and Land Surveyors | | 10th Avenue and Johnson Road, Golden, Colorado | |
| 2950 South Jamaica Court, Suite 305 | | Golden Standard Details | |
| Aurora, Colorado 80014 | | Designed SBR | |
| (303) 745-4747 | | Scale AS SHOWN | |
| | | Sheet 19 | |
| | | Drawn DCA | |
| | | Job No. 10003 | |
| | | Checked SBR | |
| | | Date OCTOBER 15, 2008 | |
| | | File | |



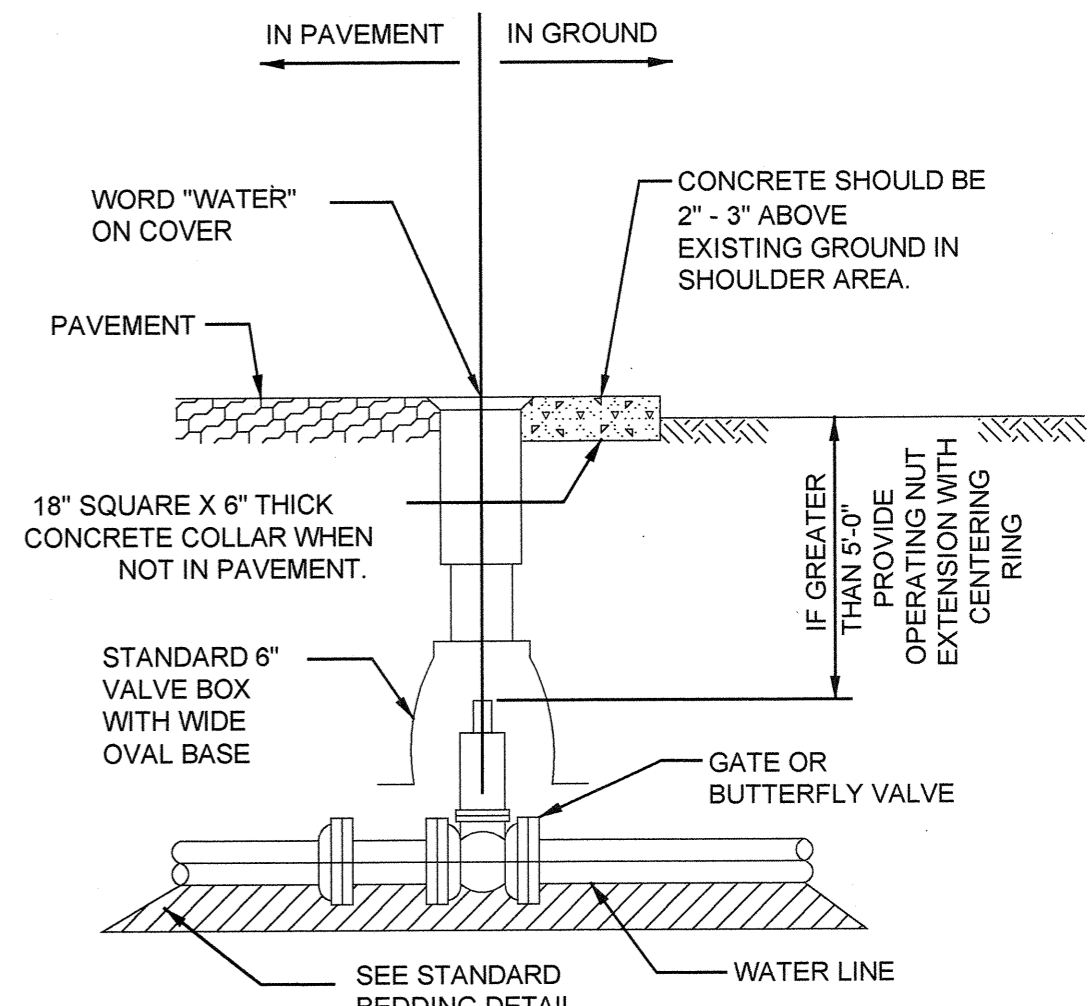
NOTES:
 1. THE MINIMUM DISTANCE FROM THE BELL OR SPIGOT END OF A PIPE SHALL BE 3 FEET.
 2. THE MINIMUM DISTANCE BETWEEN SERVICES SHALL BE 3 FEET.
 3. WHEN TAPPING INTO AN EXISTING MAIN, A SADDLE CONNECTION AND APPROVED CORING METHOD SHALL BE USED.
 4. MAINTAIN 10 FEET MINIMUM SEPARATION FROM WATER SERVICE LINES, INSTALL DOWNHILL FROM WATER SERVICE.



NOTES:
 1. CLEANOUT SHALL BE CONSTRUCTED SO THAT SURFACE LOAD WILL NOT BE TRANSFERRED TO MAIN.
 2. SERVICE LINE CLEANOUTS SHALL BE INSTALLED APPROXIMATELY 5 FEET OUTSIDE THE BUILDING FOUNDATION.
 3. AN OUTSIDE CLEANOUT IS REQUIRED ON ALL NEW SERVICE LINE INSTALLATIONS.



| PIPE I.D. | LONGITUDINAL BARS - LOCATION |
|-----------|------------------------------|
| 6 IN. | 4-#4 BARS 1 EACH CORNER |
| 8 IN. | 4-#4 BARS 1 EACH CORNER |
| 10 IN. | 8-#4 BARS 3 EACH SIDE |
| 12 IN. | 8-#4 BARS 3 EACH SIDE |
| 15 IN. | 8-#4 BARS 3 EACH SIDE |
| 18 IN. | 8-#4 BARS 3 EACH SIDE |
| 21 IN. | 12-#4 BARS 4 EACH SIDE |
| 24 IN. | 12-#4 BARS 4 EACH SIDE |
| 27 IN. | 12-#4 BARS 4 EACH SIDE |
| 30 IN. | 12-#4 BARS 4 EACH SIDE |
| 36 IN. | 16-#4 BARS 5 EACH SIDE |



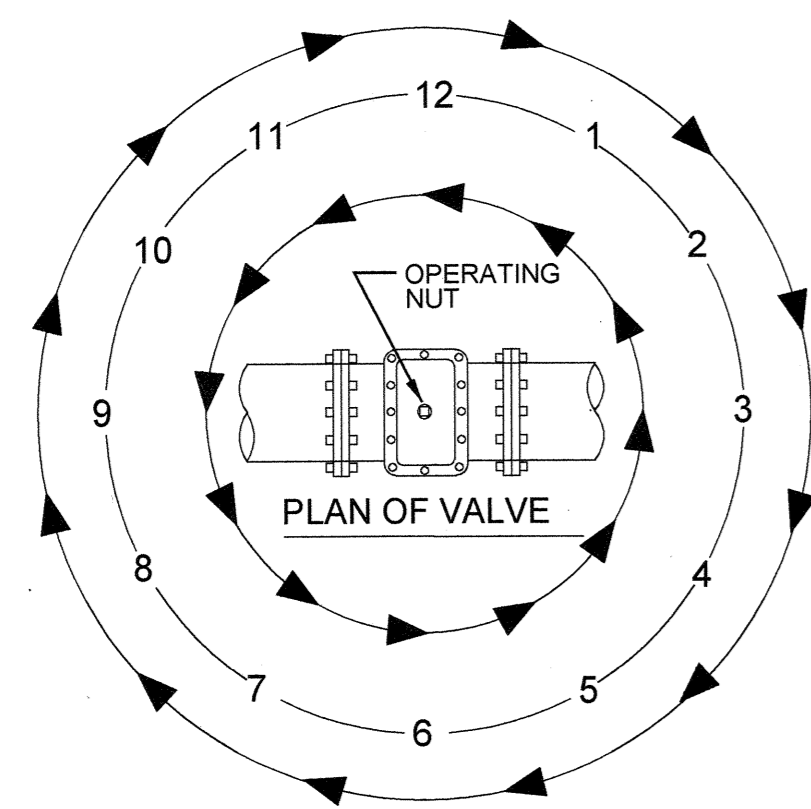
NOTE:
 AT THE ENGINEER'S DIRECTION, WOOD BLOCKS OR 3/4" WASHED ROCK TO BE INSTALLED UNDER THE VALVE TO PROVIDE PROPER SUPPORT WHERE REQUIRED.

APPROVED: *Dan Heit* DIRECTOR OF PUBLIC WORKS
 CITY OF GOLDEN
 DEPARTMENT OF PUBLIC WORKS
 SANITARY SEWER SERVICE DETAIL
 SCALE: NTS
 DATE: DEC 2003
 DETAIL NO. S-13
 APPROVED: *John Kofaris* CITY ENGINEER

APPROVED: *Dan Heit* DIRECTOR OF PUBLIC WORKS
 CITY OF GOLDEN
 DEPARTMENT OF PUBLIC WORKS
 SEWER SERVICE LINE CLEANOUT
 SCALE: NTS
 DATE: DEC 2003
 DETAIL NO. S-14
 APPROVED: *John Kofaris* CITY ENGINEER

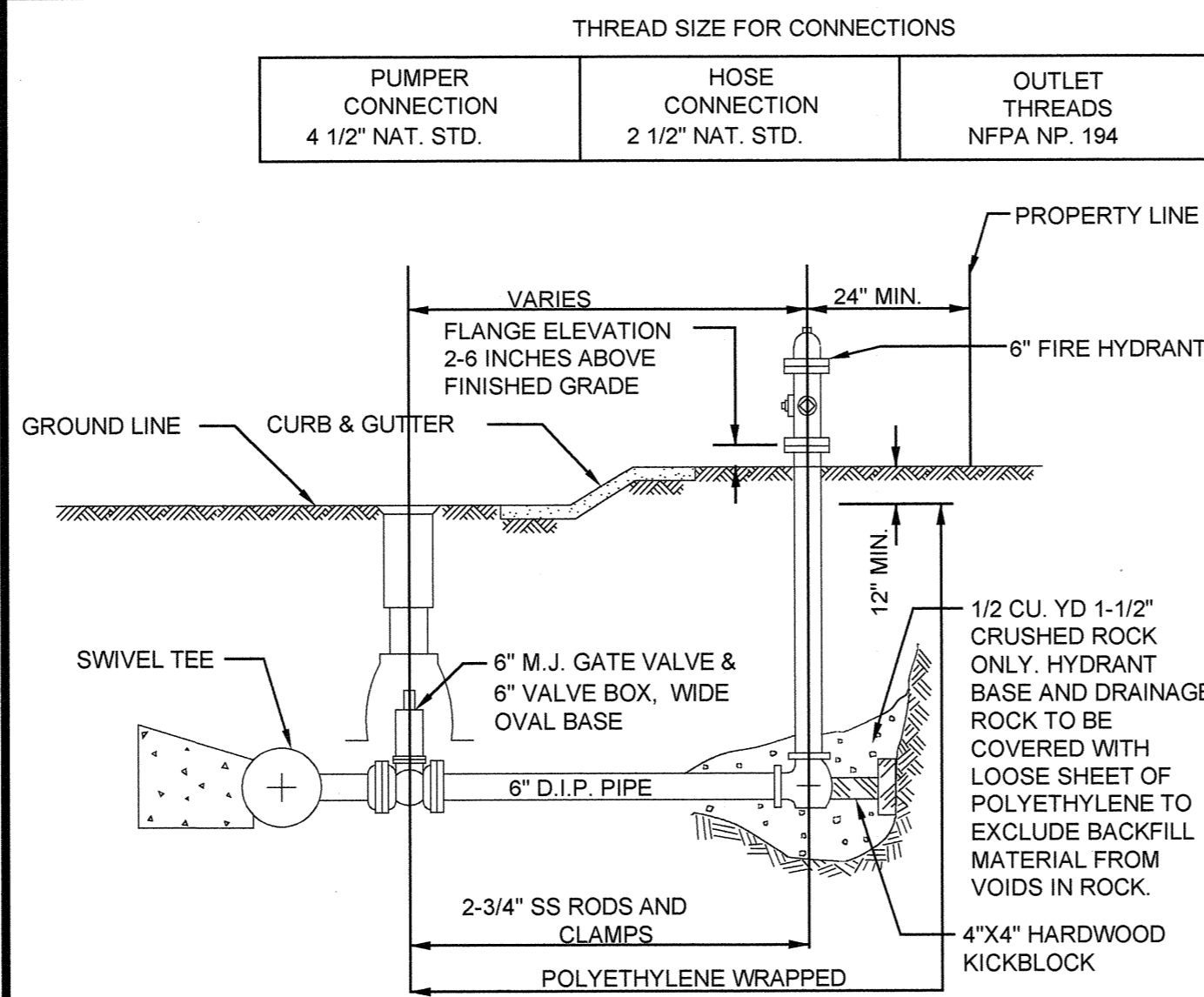
APPROVED: *Dan Heit* DIRECTOR OF PUBLIC WORKS
 CITY OF GOLDEN
 DEPARTMENT OF PUBLIC WORKS
 CONCRETE ENCASEMENT DETAIL
 SCALE: NTS
 DATE: DEC 2003
 DETAIL NO. S-16
 APPROVED: *John Kofaris* CITY ENGINEER

APPROVED: *Dan Heit* DIRECTOR OF PUBLIC WORKS
 CITY OF GOLDEN
 DEPARTMENT OF PUBLIC WORKS
 VALVE DETAIL
 SCALE: NTS
 DATE: DEC 2003
 DETAIL NO. W-1
 APPROVED: *John Kofaris* CITY ENGINEER

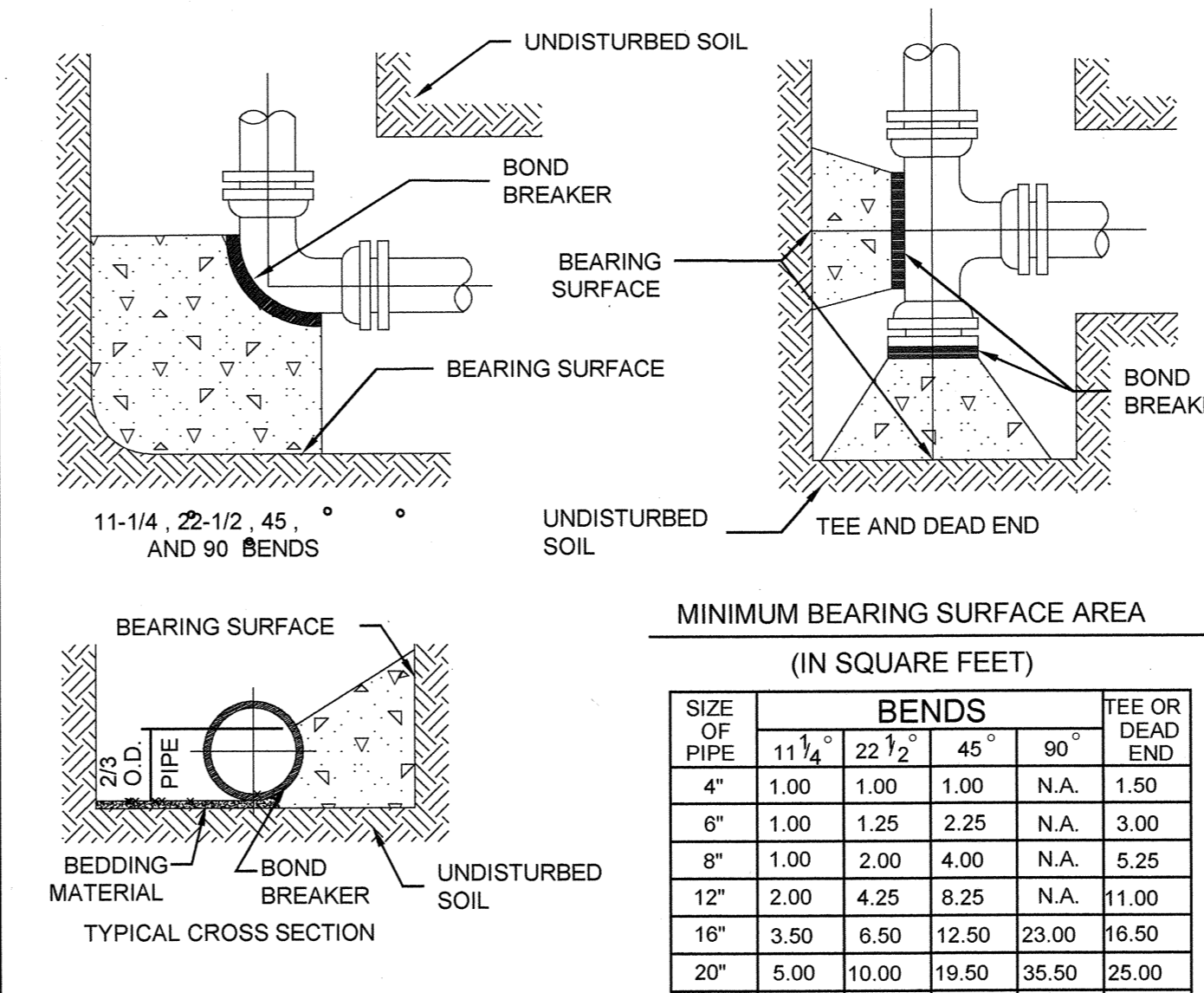


NOTES:
 1. VALVES WITH A BLACK OPERATION NUT INDICATE A STANDARD GOLDEN VALVE.
 2. VALVES SHALL BE OPERATED BY CITY WATER PERSONNEL ONLY.

VALVE OPENING & CLOSING PROCEDURE



NOTES:
 1. ONLY THE FOLLOWING FIRE HYDRANTS AND VALVE BOXES LISTED BELOW SHALL BE ACCEPTED FOR CONSTRUCTION.
 FIRE HYDRANTS
 A. MUELLER CENTURION MODEL A-423
 B. WATEROUS PACER 250-67
 VALVE BOXES
 A. TYLER SCREW - TYPE "C" CAST IRON VALVE BOX ASSEMBLY SERIES 6860 WITH NO. 160 OVAL BASE
 B. CLAY AND BAILEY SCREW - TYPE 6 INCH CAST IRON VALVE BOX ASSEMBLY NO. P-108 WITH NO. 160 LARGE OVAL BASE



NOTES:
 1. ON 16" AND 20" TRANSMISSION MAINS ALL BENDS SHALL BE BOTH RODDED AND KICKLOCKED.
 2. BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
 3. BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER.
 4", 6" AND 8" WATER HAMMER = 120 PSI
 12" WATER HAMMER = 110 PSI
 16", 20" AND 24" WATER HAMMER = 70 PSI
 4. ALL 90° BENDS SHALL BE RODDED.
 5. N.A. = NOT APPLICABLE

CONCRETE THRUST BLOCKS
 WATER MAIN AND TAP SIZE COMBINATIONS WHICH REQUIRE A CONCRETE THRUST REACTION BLOCK BEHIND THE MAIN AT THE TAPPING SLEEVE OR SADDLE.
 ALL WATER MAINS

☒ INDICATES CONCRETE THRUST BLOCK REQUIRED

| TAP SIZE (INCHES) | MAIN SIZE (INCHES) | | | | | | | | | | | | | | | |
|-------------------|--------------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 36 | 42 |
| 4 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |

ANY THRUST REACTION BLOCK REQUIREMENTS FOR WATER MAIN AND TAP SIZE COMBINATIONS OTHER THAN THOSE SHOWN ABOVE WILL REQUIRE SPECIAL DESIGN APPROVAL BY THE ENGINEERING DIVISION.

APPROVED: *Dan Heit* DIRECTOR OF PUBLIC WORKS
 CITY OF GOLDEN
 DEPARTMENT OF PUBLIC WORKS
 VALVE OPERATION
 SCALE: N/A
 DATE: DEC 2003
 DETAIL NO. W-2
 APPROVED: *John Kofaris* CITY ENGINEER

APPROVED: *Dan Heit* DIRECTOR OF PUBLIC WORKS
 CITY OF GOLDEN
 DEPARTMENT OF PUBLIC WORKS
 FIRE HYDRANT ASSEMBLY
 SCALE: NTS
 DATE: DEC 2003
 DETAIL NO. W-3
 APPROVED: *John Kofaris* CITY ENGINEER

APPROVED: *Dan Heit* DIRECTOR OF PUBLIC WORKS
 CITY OF GOLDEN
 DEPARTMENT OF PUBLIC WORKS
 CONCRETE KICKBLOCKS (BEARING SURFACES AND INSTALLATION)
 SCALE: NTS
 DATE: DEC 2003
 DETAIL NO. W-6
 APPROVED: *John Kofaris* CITY ENGINEER

APPROVED: *Dan Heit* DIRECTOR OF PUBLIC WORKS
 CITY OF GOLDEN
 DEPARTMENT OF PUBLIC WORKS
 CONCRETE TRUST BLOCKS
 SCALE: NTS
 DATE: DEC 2003
 DETAIL NO. W-7
 APPROVED: *John Kofaris* CITY ENGINEER

| No. | Revisions | Date | By |
|-----|-----------|------|----|
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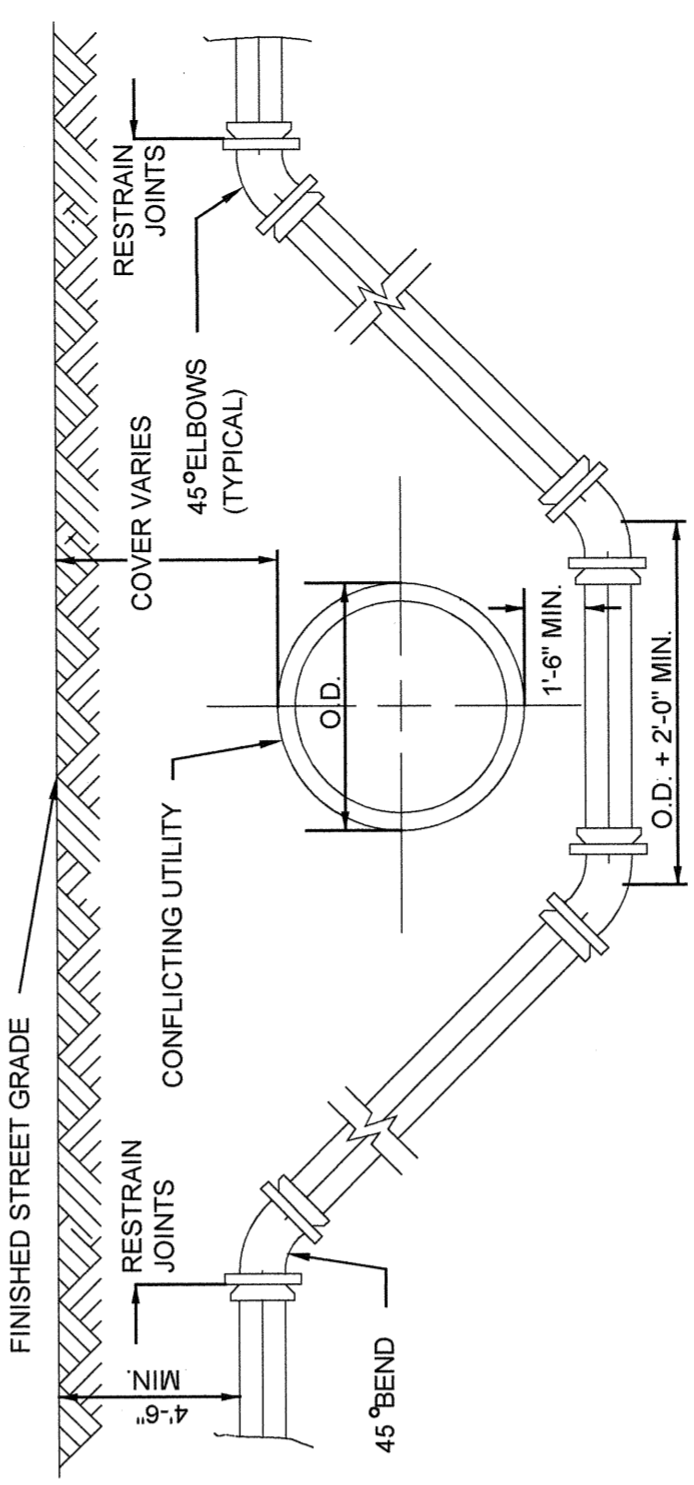
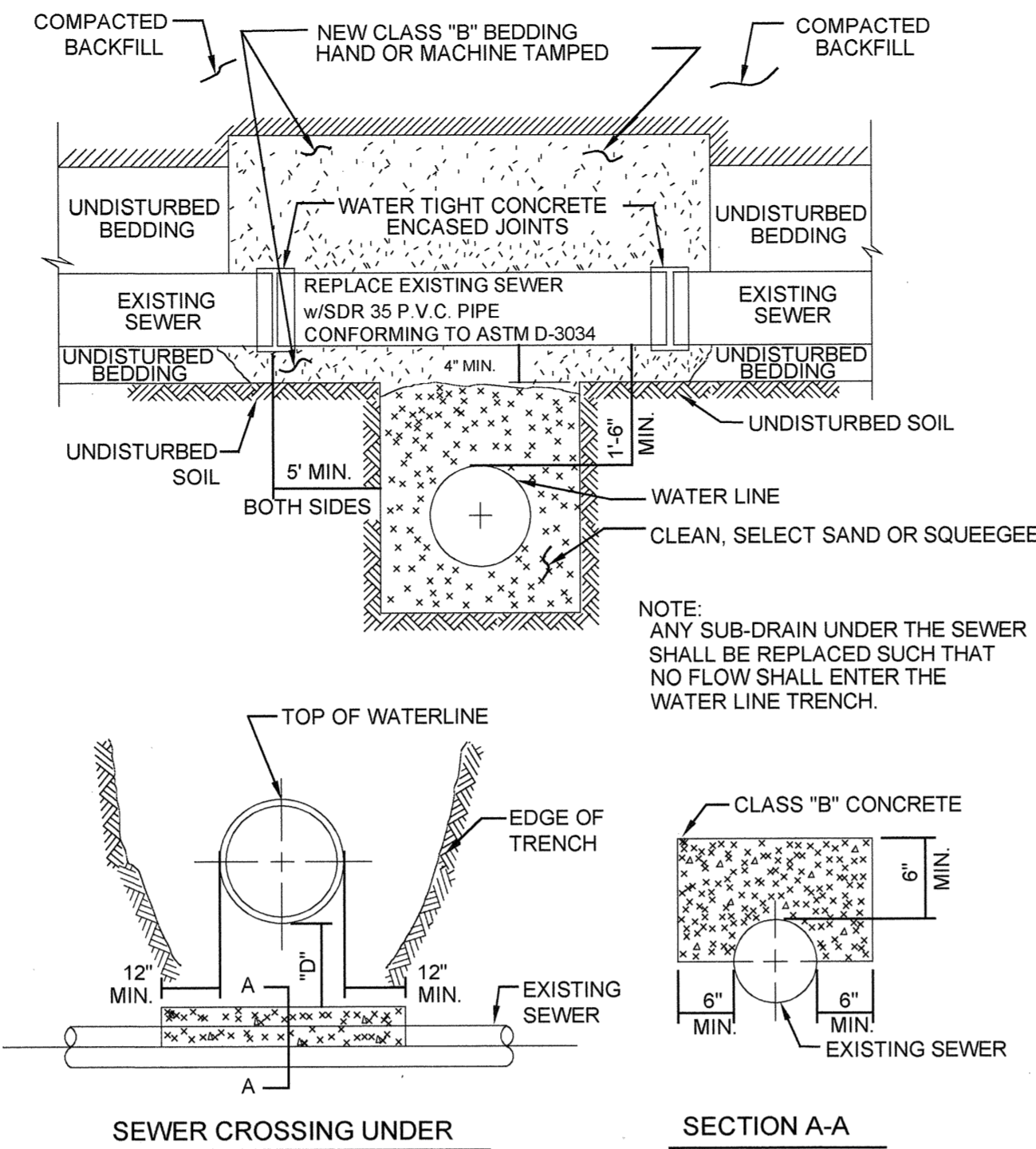
Reams & Patterson, Inc.
 Consulting Engineers and Land Surveyors
 2950 South Jamaica Court, Suite 305
 Aurora, Colorado 80014
 (303) 745-4747

Project: JEFFERSON OFFICE PARK
 10th Avenue and Johnson Road, Golden, Colorado
 Golden Standard Details
 Designed: SBR Date: AS SHOWN Sheet: 20
 Drawn: DCA Job No.: 10003
 Checked: SBR Date: OCTOBER 15, 2008 File:

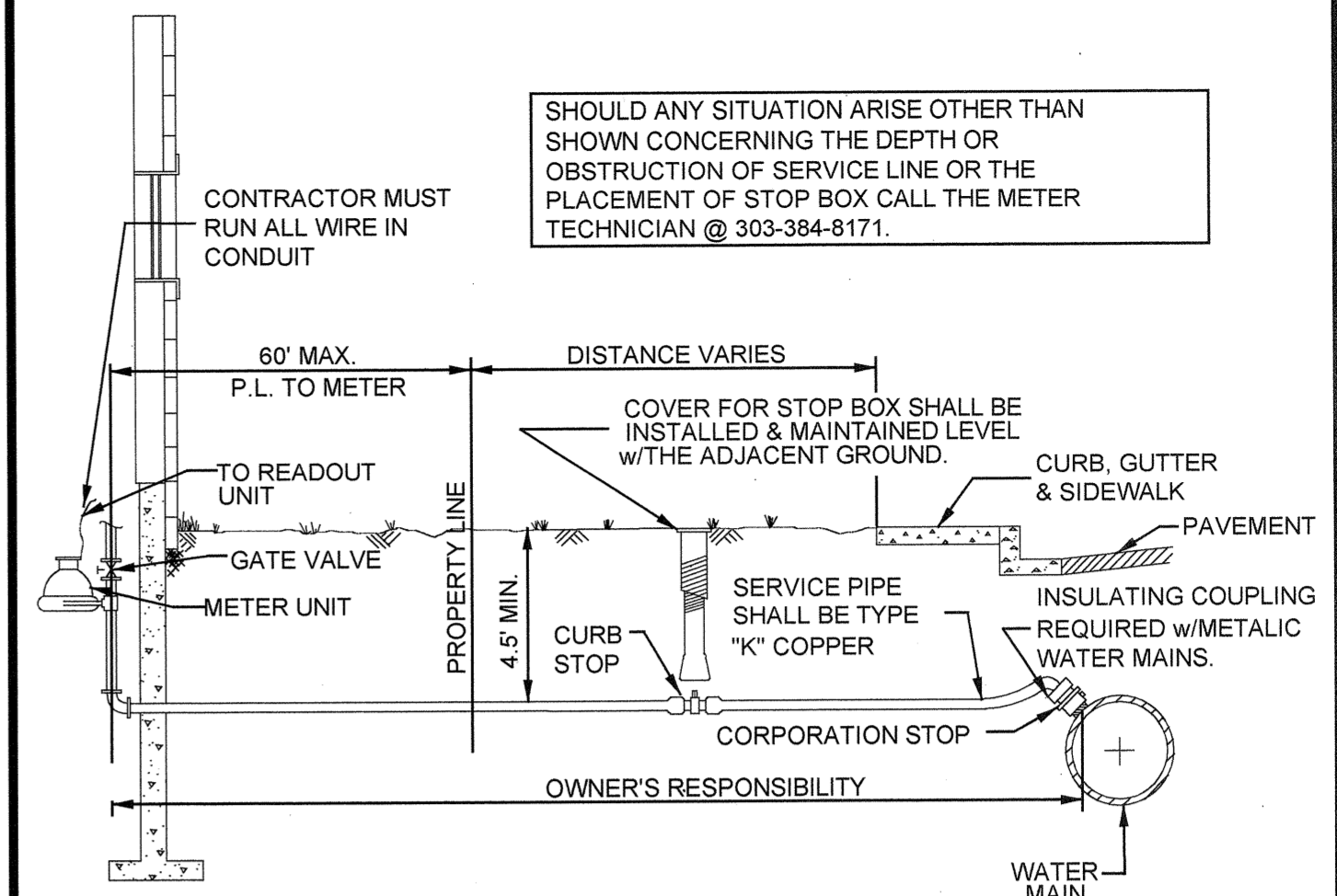
ROD DIAMETER, GRADE & LENGTH OF RESTRAINED PIPE

| PIPE SIZE | 4" | 6" | 8" | 12" | 16" | 20" | 24" |
|------------------|------|----|------|------|-----|------|------|
| FITTING | D | L | G | D | L | G | D |
| TEE OR VALVE | 3/4" | 6" | M.S. | 3/4" | 13" | M.S. | 3/4" |
| PLUG OR 90° BEND | 3/4" | 6" | M.S. | 3/4" | 13" | M.S. | 3/4" |
| 45° BEND | 3/4" | 2" | M.S. | 3/4" | 4" | M.S. | 3/4" |
| 22 1/2° BEND | 3/4" | 1" | M.S. | 3/4" | 1" | M.S. | 3/4" |
| 11 1/4° BEND | 3/4" | 1" | M.S. | 3/4" | 1" | M.S. | 3/4" |

- NOTES:
- LENGTH OF TIED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
 - CLAMPS AND RODS NOT ALLOWED FOR 24" AND LARGER PIPES.
 - D=DIAMETER, L=LENGTH, G=GRADE OF STEEL, M.S.=MILD STEEL, H.S.=HIGH STRENGTH.
 - MINIMUM 4.5' GROUND COVER REQUIRED.
 - BASED ON 150 PSI INTERNAL PRESSURE.
 - M.S. MEANS MIL STEEL ROD A.S.T.M. STANDARD DESIGNATION A-36.
 - H.S. MEANS HIGH STRENGTH ROD A.S.T.M. STANDARD DESIGNATION A-193 GRADE B-7.
 - NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-307 GRADE A OR B HEXAGON HEAVY SERIES.
 - LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE TIED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF RODS.



- NOTES:
- LENGTH OF EXTENSION OF PIPE AND HARNESS RODS SHALL BE IN ACCORDANCE WITH THESE ENGINEERING STANDARDS.
 - CATHODIC PROTECTION MAY BE REQUIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 - A BORED CROSSING MAY BE REQUIRED BY THE ENGINEER.



- WATER SERVICE REQUIREMENTS
- ALL SERVICE LINES SHALL HAVE A MINIMUM OF 4.5' OF COVER.
 - ALL SERVICE LINES SHALL BE A MINIMUM OF 3/4" DIAMETER "K" COPPER.
 - ALL JOINTS UNDERGROUND SHALL BE FLARE JOINTS ONLY.
 - NEW CONSTRUCTION REQUIREMENTS
 - INSIDE METER INSTALLATIONS ONLY.
 - METER HEIGHT ABOVE FINISHED FLOOR SHALL BE 4 FEET.
 - ALL SERVICE LINES SHALL HAVE A CURB STOP INSTALLED AS SHOWN ABOVE.
 - CURB STOP RISERS SHALL BE 4" DIAMETER.
 - NO METER SHALL BE INSTALLED INSIDE A CRAWL SPACE.
 - ALL METERS SHALL HAVE AN INSIDE SHUT-OFF.
 - CONTRACTOR MUST PURCHASE FROM CITY: (2)-PACKING JOINTS; (2)-VALVES FOR 5/8" & 3/4"; AND (1)-YOKE.

APPROVED: *Dan Heit* CITY OF GOLDEN, CITY ENGINEER. CITY OF GOLDEN DEPARTMENT OF PUBLIC WORKS. LENGTH OF TIED PIPE. SCALE: NTS. DATE: DEC 2003. DETAIL NO. W-8.

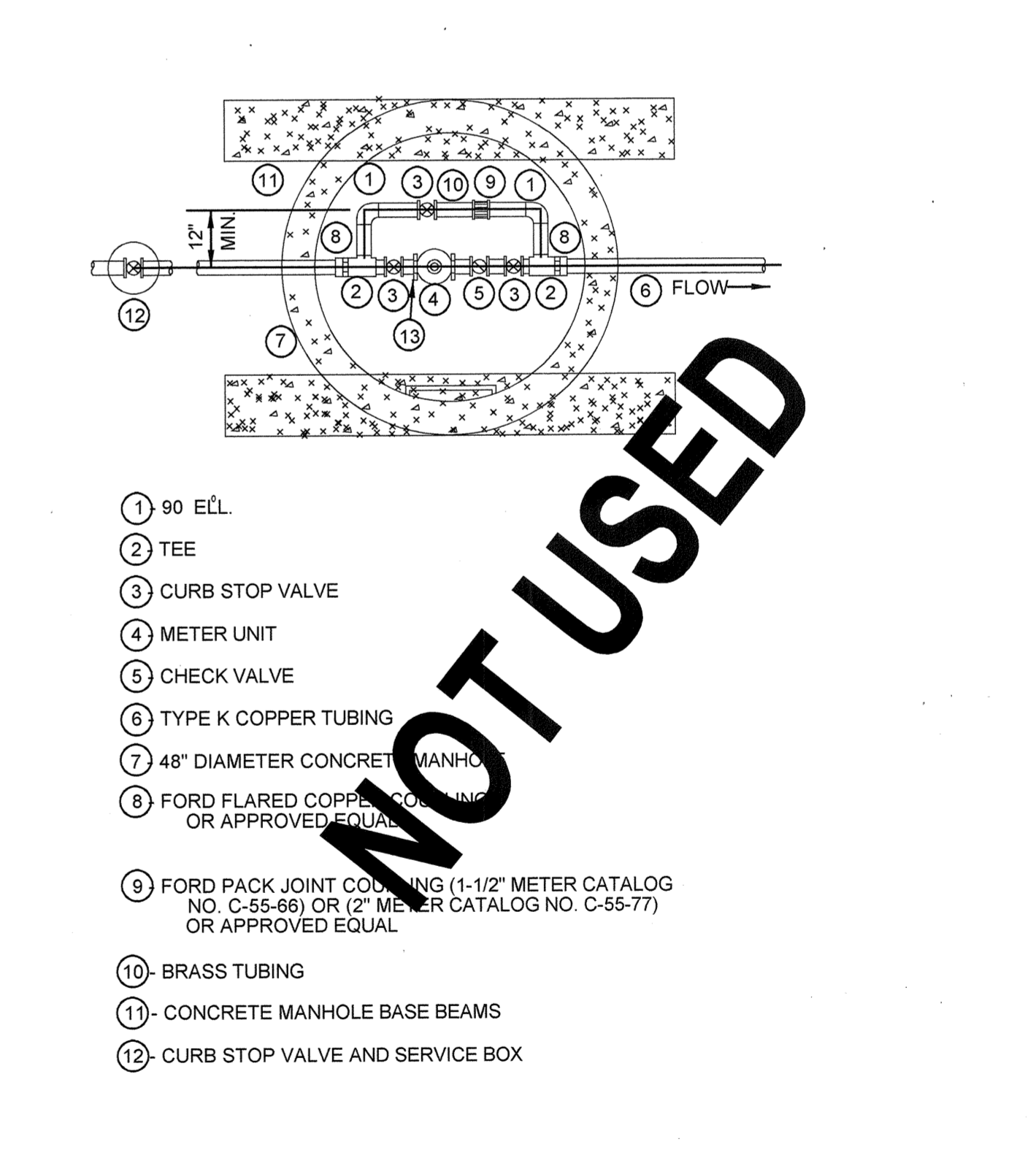
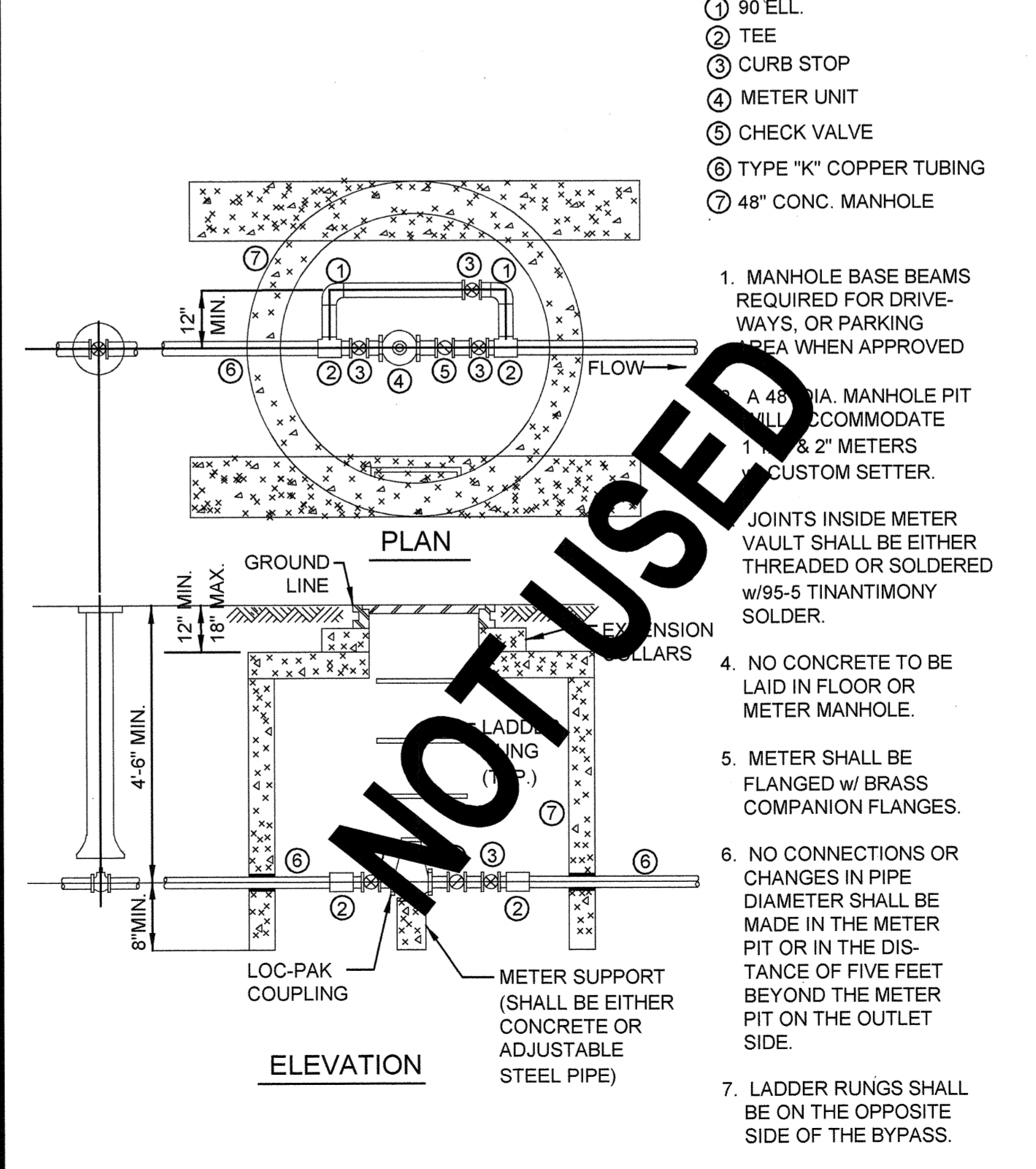
APPROVED: *Dan Heit* CITY OF GOLDEN, CITY ENGINEER. CITY OF GOLDEN DEPARTMENT OF PUBLIC WORKS. CROSSING DETAIL FOR STORM & SANITARY SEWER. SCALE: NTS. DATE: DEC 2003. DETAIL NO. W-11.

APPROVED: *Dan Heit* CITY OF GOLDEN, CITY ENGINEER. CITY OF GOLDEN DEPARTMENT OF PUBLIC WORKS. CONDUIT CROSSING DETAIL. SCALE: NTS. DATE: DEC 2003. DETAIL NO. W-12.

APPROVED: *Dan Heit* CITY OF GOLDEN, CITY ENGINEER. CITY OF GOLDEN DEPARTMENT OF PUBLIC WORKS. WATER SERVICE PROFILE. SCALE: NTS. DATE: DEC 2003. DETAIL NO. W-13.

- GENERAL METER NOTES
- LOCATION OF THE METER TO BE ESTABLISHED BY THE DEVELOPMENTAL ENGINEER.
 - ALL SETTINGS MUST BE INSPECTED BY THE WATER DEPARTMENT REPRESENTATIVE.
 - IF THE STREET OR GROUND IS NOT TO FINAL GRADE AT THE TIME OF INSTALLATION OF THE METER, THE OWNER MUST RAISE OR LOWER THE METER VAULT WHEN THE FINAL GRADE IS ESTABLISHED.
 - LEADED JOINTS AND GALVANIZED PIPING SHALL NOT BE ALLOWED INSIDE THE METER VAULTS.
 - A BYPASS IS TO BE INSTALLED ON 1 1/2" AND LARGER METERS UNLESS OTHERWISE SPECIFIED.
 - THE SERVICE LINE THROUGH AND ON BOTH SIDES OF THE METER PIT MUST BE OF THE SAME MATERIAL.
 - NO CONNECTIONS SHALL BE MADE IN THE METER PIT. SPRINKLER CONNECTIONS MUST BE MADE MORE THAN FIVE (5) FEET FROM THE METER PIT ON THE DOWNSTREAM SIDE.
 - GATE VALVES:
 - ALL GATE VALVES UNDER 3" FOR USE w/COPPER PIPE SHALL BE ALL BRONZE, w/NON-RISING STEMS AND SOLID WEDGE DISC, MANUFACTURED IN ACCORDANCE WITH A.S.T.M. SPEC. B62 AND FEDERAL SPEC. W.W.-V-54 CLASS A, 125 PSI W.S.P., 200 PSI W.O.G. OR CURB STOPS IN ACCORDANCE WITH AWWA C900 AND MS-23 OF THE MATERIAL SPECIFICATIONS.
 - ALL GATE VALVES 3" AND LARGER SHALL CONFORM WITH GOLDEN'S STANDARD SPECIFICATIONS.
 - ALL DRESSER (OR APPROVED EQUAL) COUPLINGS SHALL HAVE THE PIPE STOP REMOVED.

- GENERAL METER NOTES
- ALL VALVES 4" DIAMETER AND LARGER SHALL BE SUPPORTED BY ADJUSTABLE STEEL SUPPORTS. METERS 1 1/2" AND LARGER SHALL BE SUPPORTED BY CONCRETE BLOCKS WITH STEEL SHIMS, IF NEEDED.
 - MANHOLE RINGS AND COVERS:
 - MANHOLE RINGS AND COVERS SHALL BE NEENAH R-1706 OR APPROVED EQUAL.
 - 38" X 22" DOUBLE MANHOLE RING AND COVER SHALL BE NEENAH 1741D OR APPROVED EQUAL. THE 38" COVER SHALL HAVE AN AUXILIARY 22" OPENING AND COVER.
 - OTHER METER SETTINGS: SETTINGS OF METERS OTHER THAN SHOWN AND DETAILED HEREIN SHALL BE CONSIDERED AS NON-STANDARD AND SHALL REQUIRE PRIOR APPROVAL OF PROPOSED PIPING LAYOUT, METER SETTING AND STRUCTURAL DESIGN OF VAULT FOR EACH SEPARATE INSTALLATION.
 - BACKFLOW PREVENTION DEVICES MAY BE REQUIRED.
 - A FLOOR DRAIN SHALL BE PLACED NEAR THE METER INSTALLATION AND BE OPERABLE.
 - ALL PIPE OUTLETS THROUGH WALLS MUST HAVE A WATER TIGHT SEAL.
 - FACTORY-INSTALLED TEST PORTS ARE REQUIRED ON ALL 1 1/2" AND LARGER METERS.



APPROVED: *Dan Heit* CITY OF GOLDEN, CITY ENGINEER. CITY OF GOLDEN DEPARTMENT OF PUBLIC WORKS. METER NOTES. SCALE: NTS. DATE: DEC 2003. DETAIL NO. W-14A.

APPROVED: *Dan Heit* CITY OF GOLDEN, CITY ENGINEER. CITY OF GOLDEN DEPARTMENT OF PUBLIC WORKS. METER NOTES. SCALE: NTS. DATE: DEC 2003. DETAIL NO. W-14B.

APPROVED: *Dan Heit* CITY OF GOLDEN, CITY ENGINEER. CITY OF GOLDEN DEPARTMENT OF PUBLIC WORKS. OUTSIDE METER SETTING 1 1/2" & 2" w/CHECK VALVE & BYPASS IN MANHOLE. SCALE: NTS. DATE: DEC 2003. DETAIL NO. W-15.

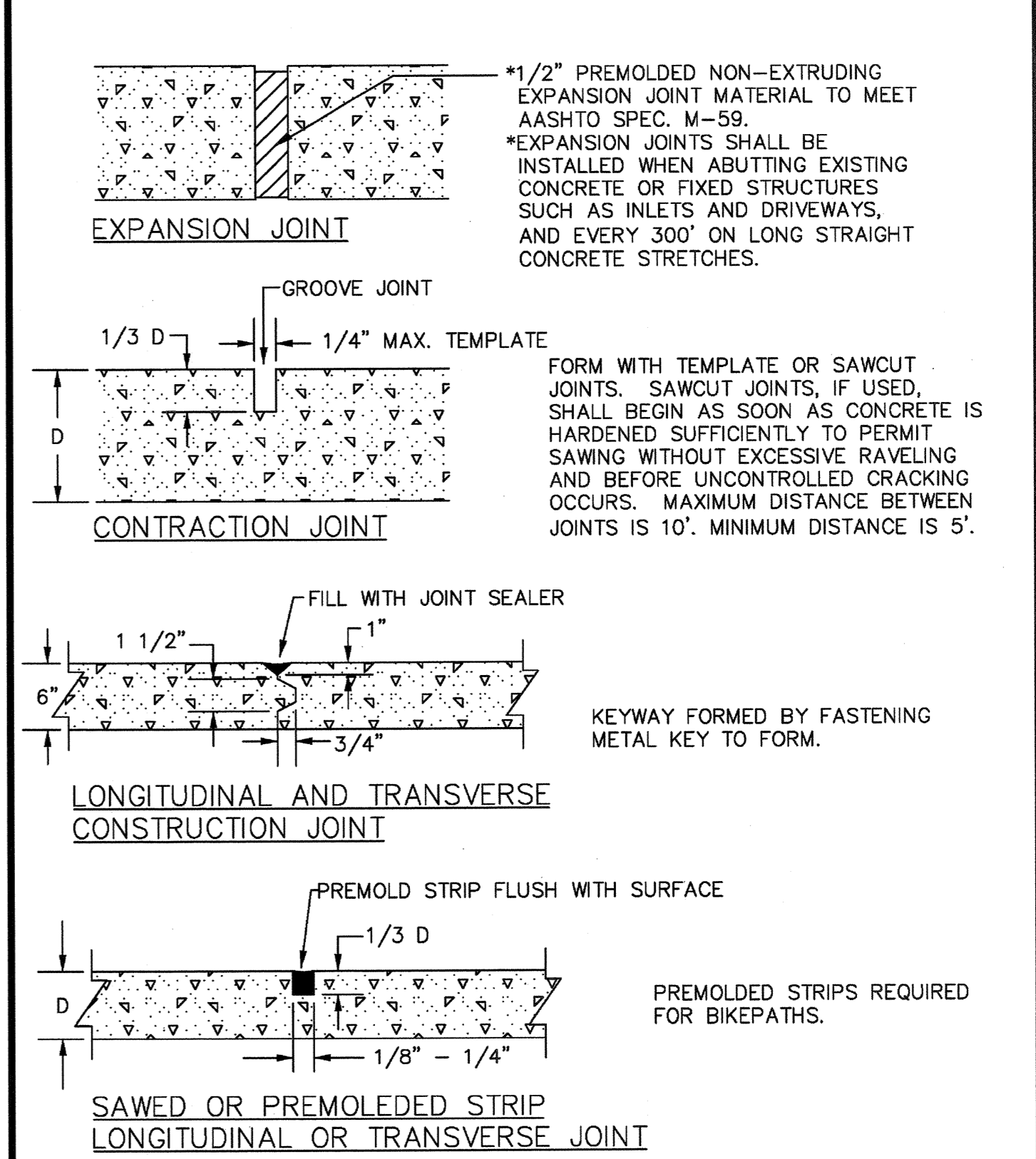
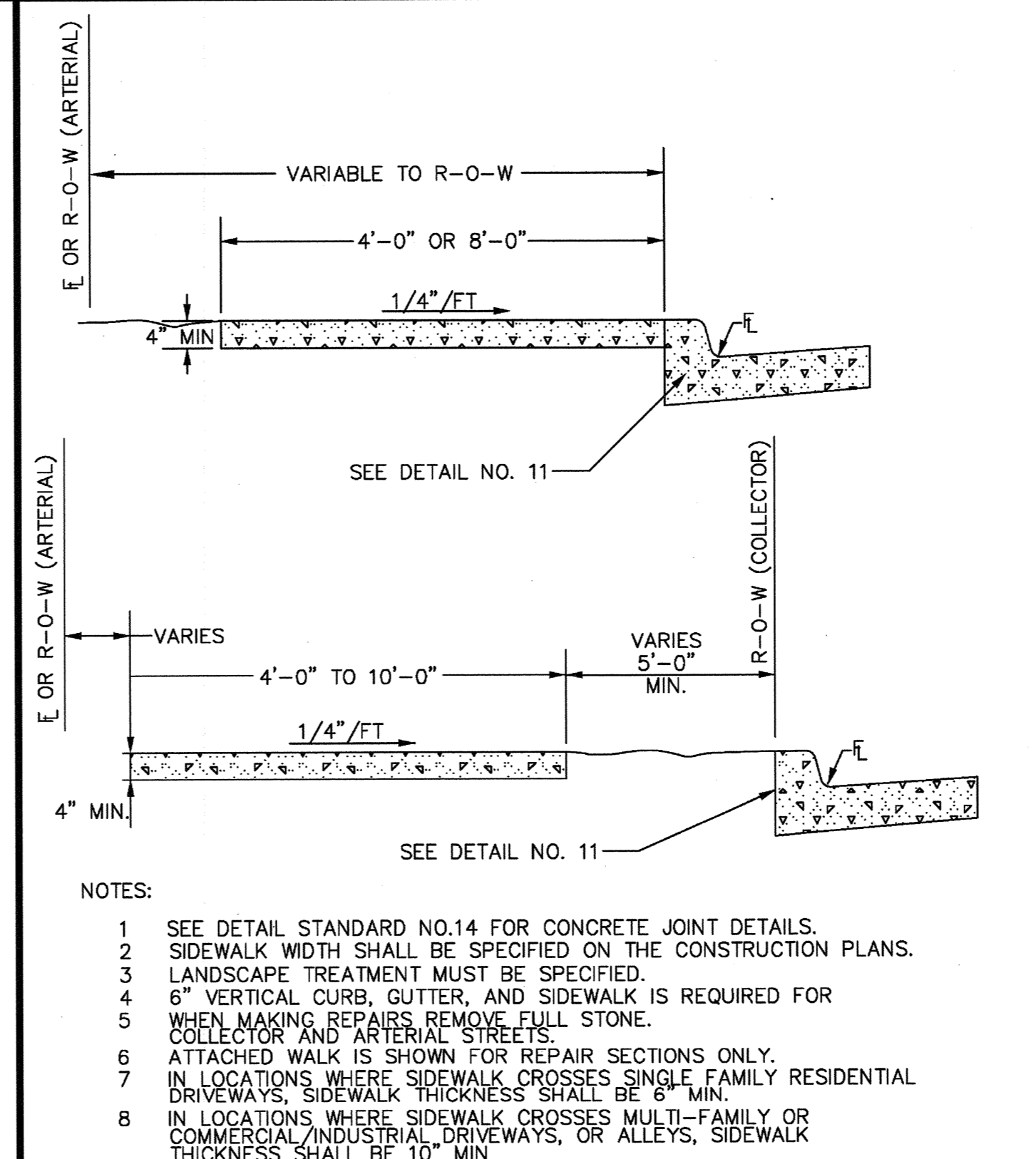
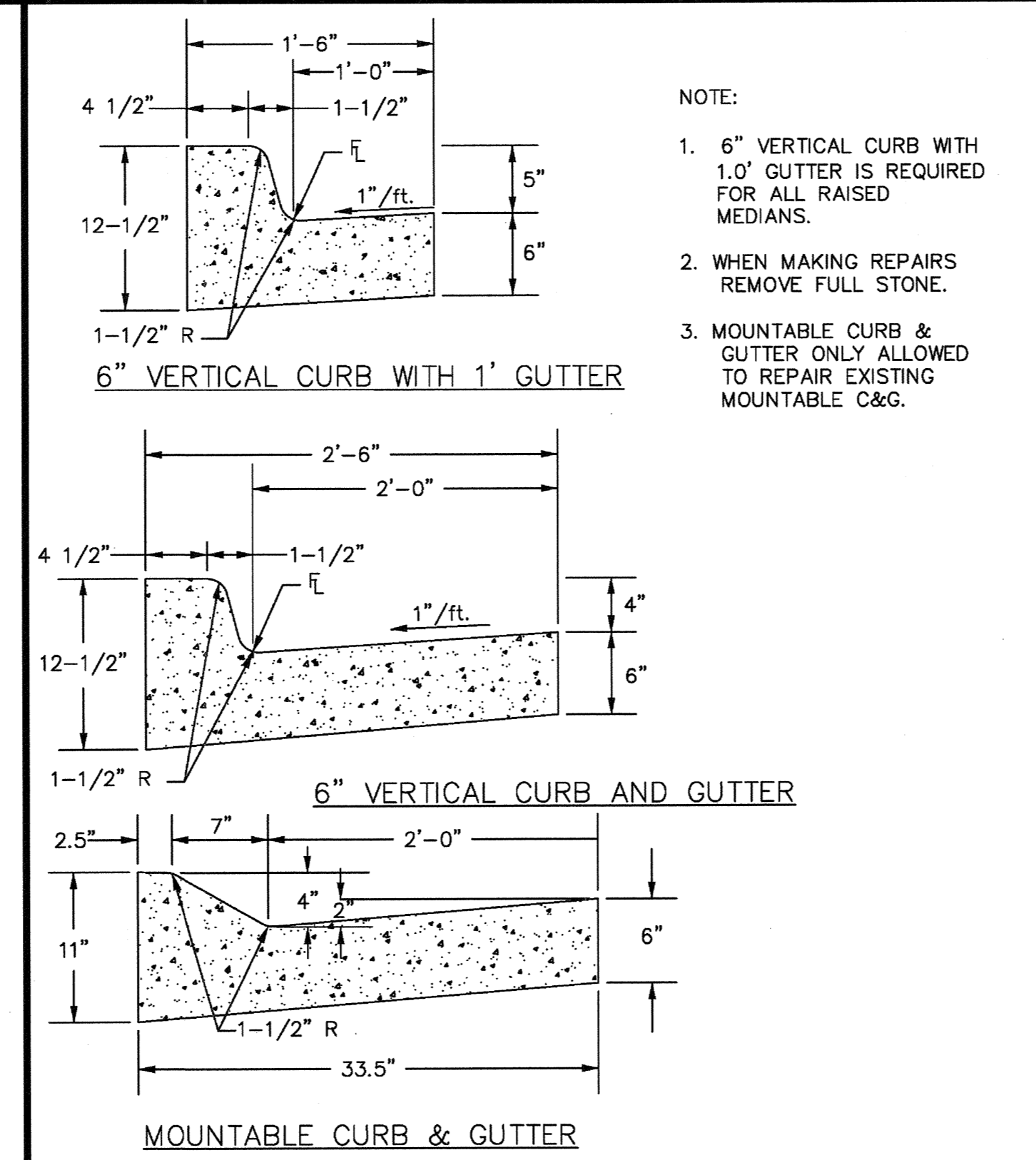
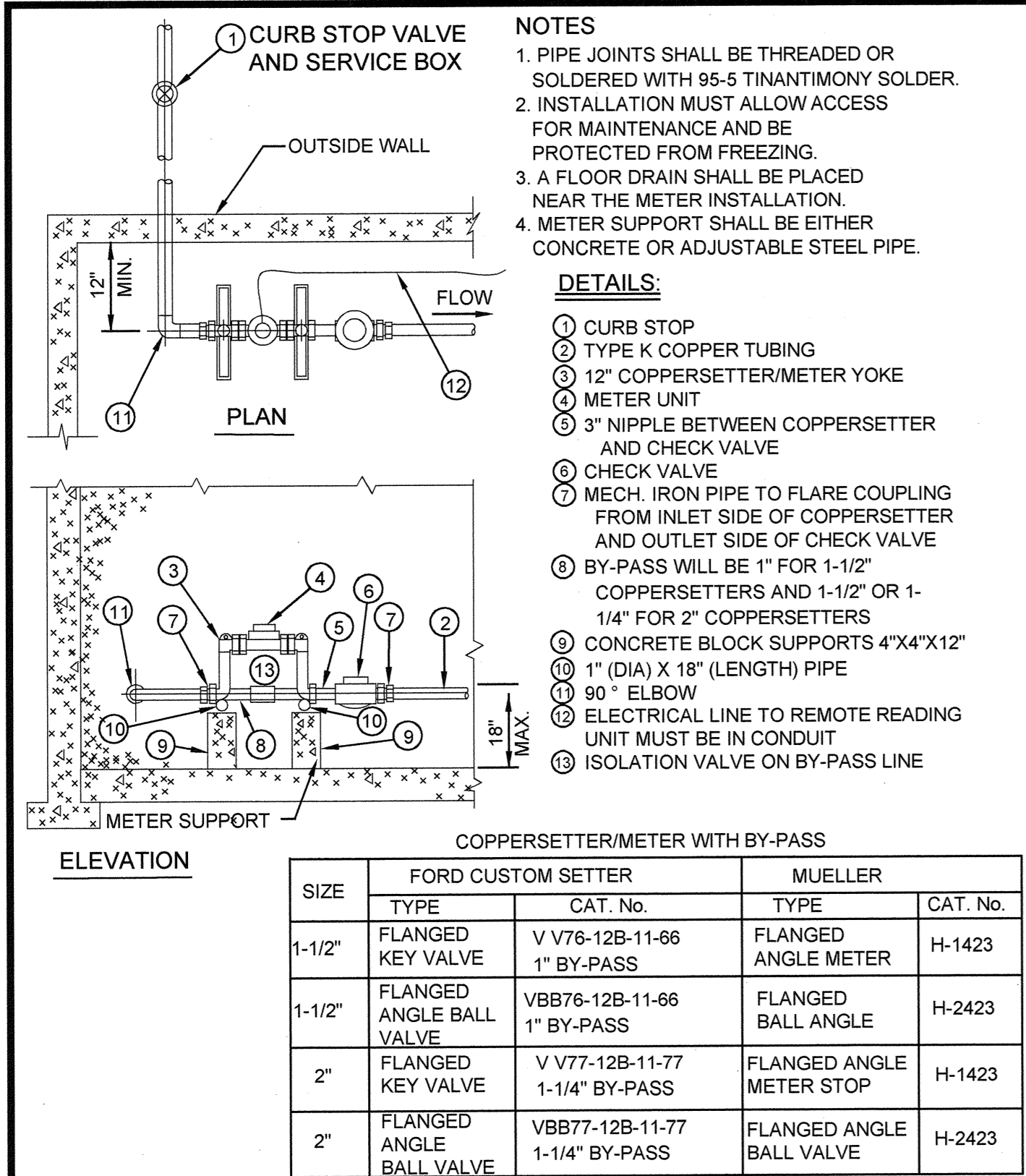
APPROVED: *Dan Heit* CITY OF GOLDEN, CITY ENGINEER. CITY OF GOLDEN DEPARTMENT OF PUBLIC WORKS. OUTSIDE METER SETTING FOR 1 1/2" & 2" BRASS ALTERNATIVE. SCALE: NTS. DATE: DEC 2003. DETAIL NO. W-16.

Reams & Patterson, Inc. Consulting Engineers and Land Surveyors. 2950 South Jamaica Court, Suite 305 Aurora, Colorado 80014 (303) 745-4747.

JEFFERSON OFFICE PARK 10th Avenue and Johnson Road, Golden, Colorado

Golden Standard Details

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| Designed | SBR | Scale | AS SHOWN | Sheet | 21 |
| Drawn | DCA | Date | OCTOBER 15, 2008 | Job No. | 10003 |
| Checked | SBR | Date | OCTOBER 15, 2008 | File | |



APPROVED: *Dan Heit*
DIRECTOR OF PUBLIC WORKS

APPROVED: *Vive Anusina*
CITY ENGINEER

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

INSIDE METER SETTING FOR 1 1/2" & 2" W/CHECK VALVE & BYPASS

SCALE: NTS

DATE: DEC 2003

DETAIL NO. **W-18**

APPROVED: *Dan Heit*
DIRECTOR OF PUBLIC WORKS

APPROVED: *Vive Anusina*
CITY ENGINEER

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

CURB AND GUTTER

SCALE: NTS

DATE: SEPT 2006

DETAIL NO. **11**

APPROVED: *Dan Heit*
DIRECTOR OF PUBLIC WORKS

APPROVED: *Vive Anusina*
CITY ENGINEER

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

6" VERTICAL CURB & SIDEWALK

SCALE: NTS

DATE: SEPT 2006

DETAIL NO. **12**

APPROVED: *Dan Heit*
DIRECTOR OF PUBLIC WORKS

APPROVED: *Vive Anusina*
CITY ENGINEER

CITY OF GOLDEN

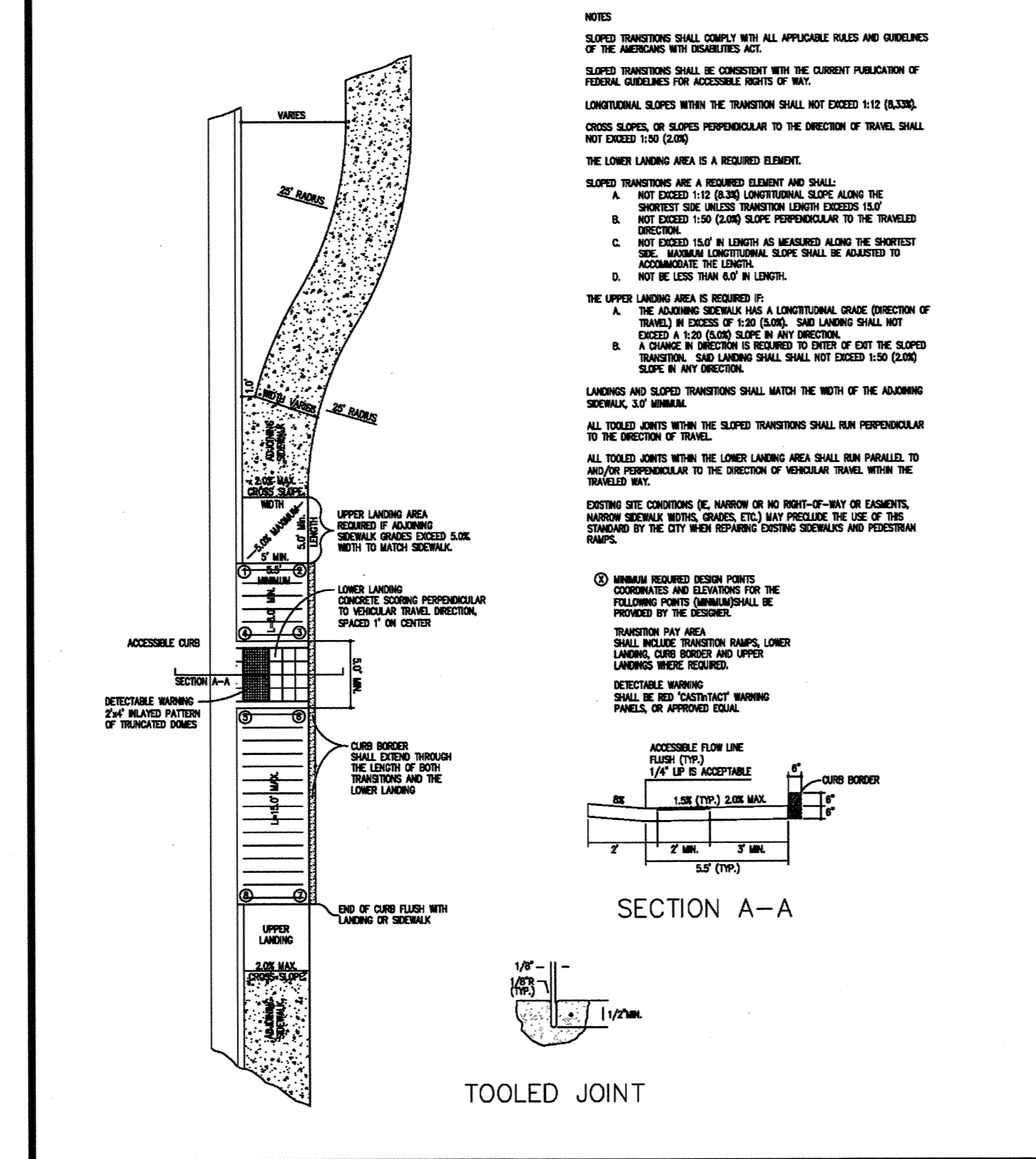
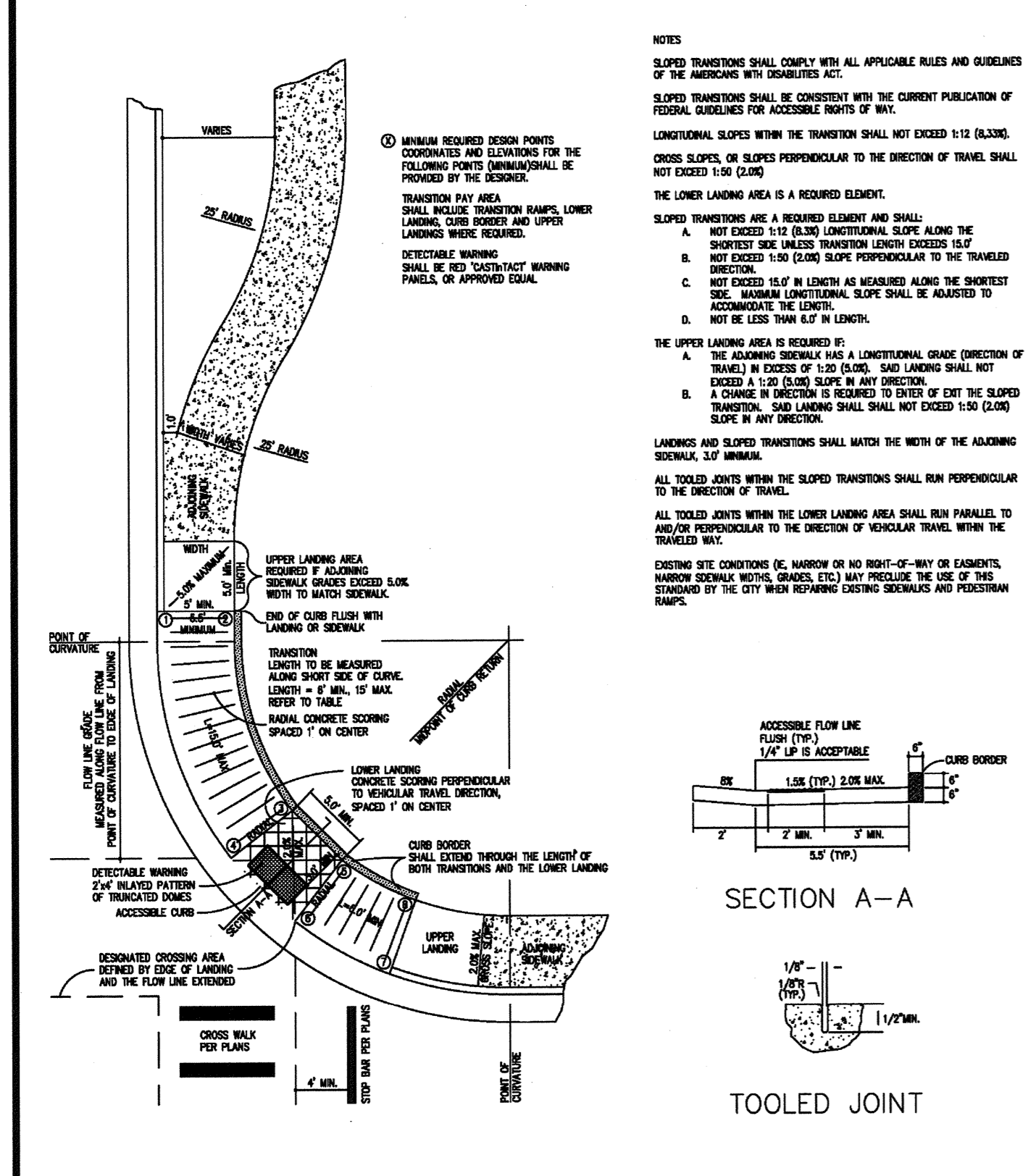
DEPARTMENT OF PUBLIC WORKS

CONCRETE JOINT DETAIL

SCALE: NTS

DATE: SEPT 2006

DETAIL NO. **14**



CITY OF GOLDEN

PUBLIC RIGHTS OF WAY

PARALLEL CURB TRANSITIONS

Max Grade: 8.3%

| Flow Line Grade | Delta | Calc. Length | Transition | | Top | |
|-----------------|-------|--------------|------------|------------|------------|---------|
| | | | Length | Transition | Transition | Landing |
| -8.0% | 16% | 3.06 | 6 | 0.3% | NO | NO |
| -7.5% | 16% | 3.16 | 6 | 0.8% | NO | NO |
| -7.0% | 15% | 3.26 | 6 | 1.3% | NO | NO |
| -6.5% | 15% | 3.37 | 6 | 1.8% | NO | NO |
| -6.0% | 14% | 3.49 | 6 | 2.3% | NO | NO |
| -5.5% | 14% | 3.61 | 6 | 2.8% | NO | NO |
| -5.0% | 13% | 3.75 | 6 | 3.3% | NO | NO |
| -4.5% | 13% | 3.90 | 6 | 3.8% | NO | NO |
| -4.0% | 12% | 4.05 | 6 | 4.3% | NO | NO |
| -3.5% | 12% | 4.23 | 6 | 4.8% | NO | NO |
| -3.0% | 11% | 4.41 | 6 | 5.3% | YES | NO |
| -2.5% | 11% | 4.62 | 6 | 5.8% | YES | NO |
| -2.0% | 10% | 4.84 | 6 | 6.3% | YES | NO |
| -1.5% | 10% | 5.08 | 6 | 6.8% | | |
| -1.0% | 9% | 5.35 | 6 | 7.3% | | |
| -0.5% | 9% | 5.65 | 6 | 7.8% | | |
| 0.0% | 8% | 6.00 | 6 | 8.3% | | |
| 0.5% | 8% | 6.38 | 7 | 7.6% | | |
| 1.0% | 7% | 6.82 | 7 | 8.1% | | |
| 1.5% | 7% | 7.32 | 8 | 7.6% | | |
| 2.0% | 6% | 7.89 | 8 | 8.3% | YES | NO |
| 2.5% | 6% | 8.57 | 9 | 8.1% | YES | NO |
| 3.0% | 5% | 9.38 | 10 | 8.0% | YES | NO |
| 3.5% | 5% | 10.34 | 11 | 8.0% | YES | NO |
| 4.0% | 4% | 11.54 | 12 | 8.2% | YES | NO |
| 4.5% | 4% | 13.04 | 14 | 8.1% | YES | NO |
| 5.0% | 3% | 15.00 | 15 | 8.3% | YES | NO |
| 5.5% | 3% | 17.65 | 15 | 8.8% | YES | YES |
| 6.0% | 2% | 21.43 | 15 | 9.3% | YES | YES |
| 6.5% | 2% | 27.27 | 15 | 9.8% | YES | YES |
| 7.0% | 1% | 37.50 | 15 | 10.3% | YES | YES |
| 7.5% | 1% | 60.00 | 15 | 10.8% | YES | YES |
| 8.0% | 0% | 150.00 | 15 | 11.3% | YES | YES |

NOT PERMITTED:

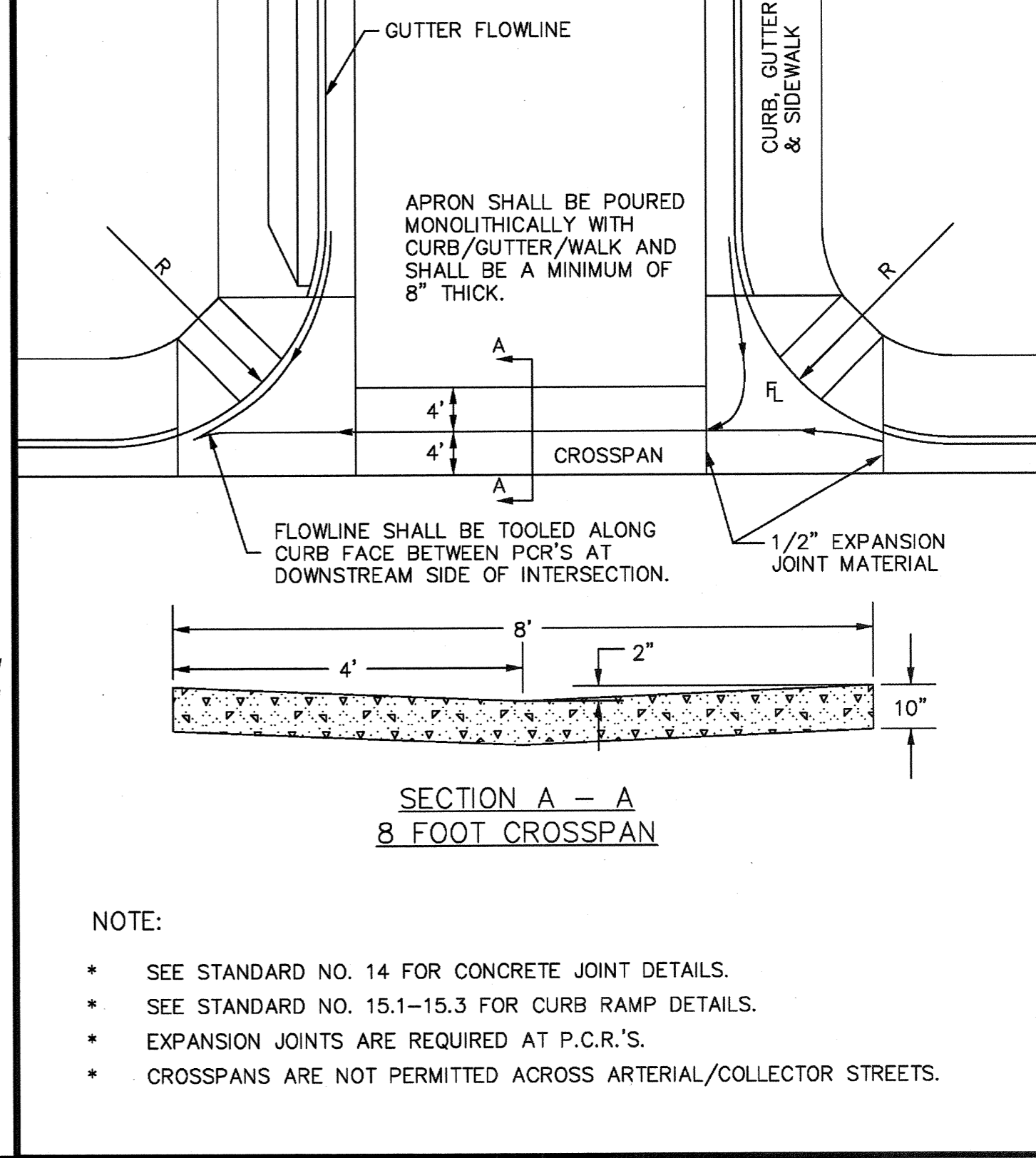
- No curb transition shall be constructed that runs less than six (6) feet in length. No curb transition is required to exceed 15' in length as measured along the shortest side. In such cases the grade of the transition shall be adjusted to accommodate it.
- Maximum grade of a curb transition shall not exceed 1:12 (8.3%) with the exception of a curb transition whose length has been set at the fifteen (15) foot maximum length.
- Curb transitions may not be required along the downstream (lower) side of curb returns with flowline grades in excess of 1:3 (3.0%).
- A landing at the high end of a parallel curb transition is not required unless the adjoining sidewalk grade exceeds 1:20 (5.0%).
- A landing at the high (top) end of a parallel curb transition is required at any change in direction. Said landing shall be a minimum of five (5) feet square with a maximum cross slope in any direction of 1:50 (2.0%).
- The City of Golden does not allow curb returns whose flow line grades are less than 1:50 (2.0%).

SECTION A - A

8 FOOT CROSSSPAN

NOTE:

- SEE STANDARD NO. 14 FOR CONCRETE JOINT DETAILS.
- SEE STANDARD NO. 15.1-15.3 FOR CURB RAMP DETAILS.
- EXPANSION JOINTS ARE REQUIRED AT P.C.R.'S.
- CROSSPANS ARE NOT PERMITTED ACROSS ARTERIAL/COLLECTOR STREETS.



APPROVED: *Dan Heit*
DIRECTOR OF PUBLIC WORKS

APPROVED: *Vive Anusina*
CITY ENGINEER

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

PEDESTRIAN RAMP (CORNER)

SCALE: NTS

DATE: SEPT 2006

DETAIL NO. **15.1**

APPROVED: *Dan Heit*
DIRECTOR OF PUBLIC WORKS

APPROVED: *Vive Anusina*
CITY ENGINEER

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

PEDESTRIAN RAMP (MID-BLOCK)

SCALE: NTS

DATE: SEPT 2006

DETAIL NO. **15.2**

APPROVED: *Dan Heit*
DIRECTOR OF PUBLIC WORKS

APPROVED: *Vive Anusina*
CITY ENGINEER

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

PEDESTRIAN RAMP (CURB TRANSITION)

SCALE: NTS

DATE: SEPT 2006

DETAIL NO. **15.3**

APPROVED: *Dan Heit*
DIRECTOR OF PUBLIC WORKS

APPROVED: *Vive Anusina*
CITY ENGINEER

CITY OF GOLDEN

DEPARTMENT OF PUBLIC WORKS

CURB RADIUS AND CROSSSPAN

SCALE: NTS

DATE: SEPT 2006

DETAIL NO. **16**

Reams & Patterson, Inc.
Consulting Engineers and Land Surveyors
2950 South Jamaica Court, Suite 305
Aurora, Colorado 80014
(303) 745-4747

JEFFERSON OFFICE PARK
10th Avenue and Johnson Road, Golden, Colorado

Golden Standard Details

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| Drawn | DCA | Date | OCTOBER 15, 2008 | Job No. | 10003 |
| Checked | SBR | Date | OCTOBER 15, 2008 | File | |

