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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
CIVIL COVER SHEET
SCALE: N/A
SHEET NUMBER
C0.0

CONSTRUCTION DOCUMENTS
FOR
VIOLET CROSSING

A TRACT OF LAND LOCATED IN THE NW1/4 OF THE NW1/4
OF SECTION 18, T1N, R70W OF THE 6TH P.M.
CITY OF BOULDER, COUNTY OF BOULDER, STATE OF COLORADO

AREA=4.657 ACRES ±

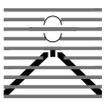
APRIL 4, 2011

PREPARED FOR:
Palmos Development Corporation

2775 IRIS AVENUE
BOULDER, COLORADO 80304
(303) 449-0951

CONTACT:
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PREPARED BY:
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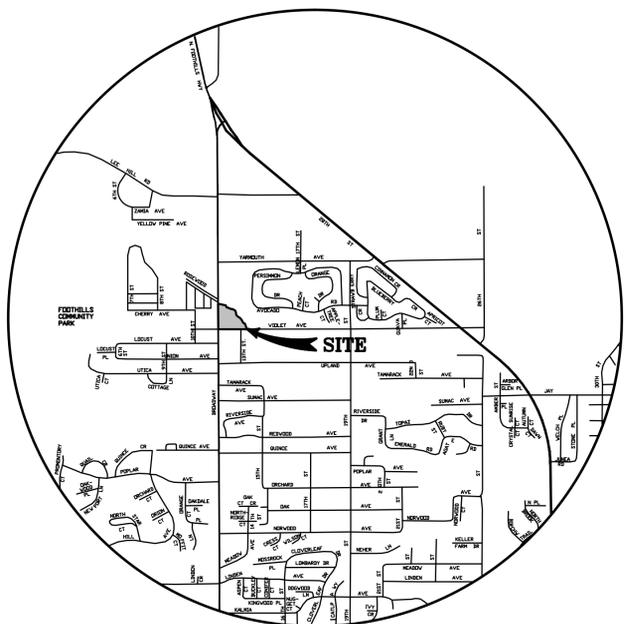
BASIS OF BEARINGS

BEARINGS FOR THIS PROJECT ARE BASED ON THE WEST LINE OF THE
NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 18, T1N,
R70W, 6TH P.M., ASSUMED TO BEAR N00°09'00"W BETWEEN MONUMENTS
SHOWN ON THE A.L.T.A./A.C.S.M. LAND TITLE SURVEY FOR THE SUBJECT
PROPERTY. PREPARED BY DREXEL BARRELL & COMPANY, DATED 01/24/07.

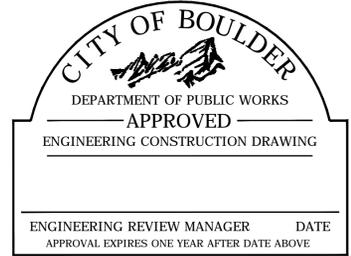
BENCHMARK

CITY OF BOULDER MONUMENT, B-2,
AN ALUMINUM CAP IN HEADWALL AT THE SOUTHWEST
CORNER OF 28th STREET AND VALMONT ROAD.
CITY OF BOULDER DATUM ELEV.=5297.80.
100.00 CITY OF BOULDER DATUM = 96.40 NAVD 88

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PROJECT LOCATION MAP
N.T.S.



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT

RECOMMENDATION FOR APPROVAL

WATER/SEWER _____

TRANSPORTATION _____

DRAINAGE _____

CITY OF BOULDER GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "DESIGN AND CONSTRUCTION STANDARDS" OF THE CITY OF BOULDER, AND SHALL BE COMPLETED TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS. IN THE EVENT THAT A DESIGN ELEMENT DOES NOT REFLECT CITY STANDARDS, THE MATTER MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE DIRECTOR OF PUBLIC WORKS. THE ENGINEER SHALL BE RESPONSIBLE FOR RECOMMENDING A SOLUTION OR ALTERNATIVE SOLUTIONS TO THE CITY FOR REVIEW AND APPROVAL.
2. THE APPROVAL OF A CONSTRUCTION PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF CONSTRUCTING WORKABLE PUBLIC IMPROVEMENTS. ALL REVISIONS AND/OR CORRECTIONS REQUIRED WILL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY, AND AT THEIR EXPENSE.
3. THESE PLANS HAVE BEEN CHECKED BY THE CITY OF BOULDER ONLY FOR CONFORMANCE WITH THE "DESIGN AND CONSTRUCTION STANDARDS," COMPLIANCE WITH DEVELOPMENT AGREEMENT CONDITIONS, AND FOR GENERAL CONCEPTUAL APPROVAL OF PUBLIC IMPROVEMENTS AS SHOWN. THE CITY'S REVIEW DOES NOT VERIFY OR ENSURE THE ACCURACY OF EXISTING OR PROPOSED DIMENSIONS, LINES, COORDINATES, OR GRADES SHOWN, INCLUDING ALL EXISTING UTILITIES SHOWN OR NOT SHOWN.
4. UTILITY LOCATIONS SHOWN REFLECT AVAILABLE RECORD DATA. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITY LINES SHOWN AND OTHER UTILITY LINES OTHERWISE LOCATED. THE CONTRACTOR SHALL CONTACT THE "UTILITY NOTIFICATION CENTER OF COLORADO" FOR UTILITY LOCATES 24 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE DENVER METRO TELEPHONE NUMBER IS (303) 534-6700. OUTSIDE THE DENVER METRO AREA, THE TOLL-FREE NUMBER IS 1-800-922-1987.
5. BEFORE WORK BEGINS, THE CONTRACTOR SHALL OBTAIN A PERMIT TO WORK IN THE RIGHT-OF-WAY FROM THE CITY AND MUST NOTIFY THE CITY RIGHT-OF-WAY INSPECTION STAFF AT LEAST 24 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION ACTIVITIES.
6. THE CONTRACTOR SHALL OBTAIN AND MAINTAIN A COMPLETE AND APPROVED SET OF CONSTRUCTION PLANS. THESE DRAWINGS, AND ANY REQUIRED PERMITS, SHALL BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE TO CITY STAFF UPON REQUEST. IF CONSTRUCTION PLANS ARE NOT READILY AVAILABLE AT THE PROJECT SITE, THE DIRECTOR OF PUBLIC WORKS MAY ISSUE A STOP WORK ORDER AND HALT ALL CONSTRUCTION ACTIVITIES PENDING COMPLIANCE BY THE CONTRACTOR.
7. THE CONTRACTOR AGREES TO COMPLY WITH ALL PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," PART VI, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL.
8. ALL SURPLUS MATERIALS, TOOLS AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE DIRECTOR OF PUBLIC WORKS.
9. THE CONTRACTOR SHALL PROVIDE TREE AND LANDSCAPE PROTECTION AS SET FORTH IN CHAPTER 6-6, "PROTECTION OF TREES AND PLANTS," BOULDER REVISED CODE (B.R.C.) 1981 AND THE CITY OF BOULDER DESIGN AND CONSTRUCTION STANDARDS (DCS). ALL LANDSCAPING SHALL BE PROVIDED AND MAINTAINED IN COMPLIANCE WITH THE APPROVED LANDSCAPING PLAN, B.R.C. AND DCS.
10. THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT "URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3", THE M-STANDARDS PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. THE DIRECTOR OF PUBLIC WORKS MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED.
11. THE CITY OF BOULDER REQUIRES THAT SIDEWALKS CONSTRUCTED HAVE A CROSS SLOPE OF LESS THAN 2%. SIDEWALKS SHALL BE DESIGNED AND CONSTRUCTED WITH CROSS SLOPES SUFFICIENTLY LESS THAN 2% TO ENSURE THAT THEY DO NOT EXCEED 2% MAXIMUM. THIS ADDITIONAL GUIDANCE IS PROVIDED TO HELP ENSURE THE PUBLIC IMPROVEMENTS ARE DESIGNED AND CONSTRUCTED IN COMPLIANCE WITH FEDERAL AMERICANS WITH DISABILITIES ACT AS REQUIRED BY SECTION 2.08 OF THE DESIGN AND CONSTRUCTION STANDARDS.
12. MAINTENANCE OF SAND/OIL INTERCEPTORS AND ALL PRIVATE WASTEWATER AND STORM SEWER LINES AND STRUCTURES SHALL REMAIN IN THE RESPONSIBILITY OF THE OWNER.
13. THE LANDSCAPE IRRIGATION SYSTEM REQUIRES A SEPARATE WATER SERVICE AND METER. A SEPARATE WATER PLANT INVESTMENT FEE MUST BE PAID AT THE TIME OF BUILDING PERMIT. SERVICE, METER AND TAP SIZES WILL BE REQUIRED AT THE TIME OF BUILDING PERMIT SUBMITTAL.
14. A CITY OF BOULDER RIGHT-OF-WAY PERMIT IS REQUIRED PRIOR TO CONSTRUCTION WITHIN CITY OF BOULDER PUBLIC RIGHT-OF-WAY OR PUBLIC EASEMENTS.
15. AT THE TIME OF BUILDING PERMIT APPLICATION THE FOLLOWING REQUIREMENTS WILL APPLY:
 - A. THE APPLICANT WILL BE REQUIRED TO PROVIDE ACCURATE EXISTING AND PROPOSED PLUMBING FIXTURE COUNT FORMS TO DETERMINE IF THE PROPOSED METERS AND SERVICES ARE ADEQUATE FOR THE PROPOSED USE.
 - B. WATER AND WASTEWATER PLANT INVESTMENT FEES AND SERVICE LINE SIZING WILL BE EVALUATED.
 - C. IF THE EXISTING WATER AND/OR WASTEWATER SERVICES ARE REQUIRED TO BE ABANDONED AND UPSIZED, ALL NEW SERVICE TAPS TO EXISTING MAINS SHALL BE MADE BY CITY CREWS AT THE DEVELOPER'S EXPENSE. THE WATER SERVICE MUST BE EXCAVATED AND TURNED OFF AT THE CORPORATION STOP PER CITY STANDARDS. THE SEWER SERVICE MUST BE EXCAVATED AND CAPPED AT THE PROPERTY LINE, PER CITY STANDARDS.
 - D. SINCE THE BUILDINGS WILL BE SPRINKLERED, THE APPROVED FIRE LINE PLANS MUST ACCOMPANY THE FIRE SPRINKLER SERVICE LINE CONNECTION PERMIT APPLICATIONS.

CITY OF BOULDER EROSION CONTROL NOTES

1. ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSTALLED BEFORE ANY CONSTRUCTION ACTIVITIES TAKE PLACE.
2. SOLID WASTE, INDUSTRIAL WASTE, YARD WASTE AND ANY OTHER POLLUTANTS OR WASTE ON ANY CONSTRUCTION SITE SHALL BE CONTROLLED THROUGH THE USE OF BMP'S. WASTE AND/OR RECYCLING CONTAINERS SHALL BE PROVIDED AND MAINTAINED BY THE OWNER OR CONTRACTOR ON CONSTRUCTION SITES WHERE THERE IS POTENTIAL FOR RELEASE OF WASTE. UNCONTAINED WASTE THAT MAY BLOW, WASH OR OTHERWISE BE RELEASED FROM THE SITE IS PROHIBITED. SANITARY WASTE FROM THESE FACILITIES SHALL BE PROVIDED AND MAINTAINED BY THE OWNER OR CONSTRUCTOR.
3. READY-MIXED CONCRETE, OR ANY MATERIALS RESULTING FROM THE CLEANING OF VEHICLES OR EQUIPMENT CONTAINING OR USED IN TRANSPORTING OR APPLYING IT, SHALL BE CONTAINED ON CONSTRUCTION SITES FOR PROPER DISPOSAL. RELEASE OF THESE MATERIALS IS PROHIBITED.
4. COVER SHALL BE APPLIED WITHIN 14 DAYS TO INACTIVE SOIL STOCKPILES, AND SHALL BE MAINTAINED FOR STOCKPILES THAT ARE PROPOSED TO REMAIN IN PLACE LONGER THAN 30 CALENDAR DAYS.
5. BMP'S SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF SEDIMENT FROM CONSTRUCTION SITES. VEHICLE TRACKING OF MUD SHALL NOT BE ALLOWED TO ENTER THE STORM WATER SYSTEM OR WATERS OF THE STATE. SEDIMENT TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED .
6. TECHNIQUES SHALL BE USED TO PREVENT DUST, SEDIMENT OR DEBRIS BLOWING FROM THE SITE.
7. STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION OR DEGRADATION OF WATERS OF THE STATE.
8. ALL EARTH DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED AND COMPLETED TO LIMIT THE EXPOSED AREA OF ANY DISTURBED LAND TO THE SHORTEST POSSIBLE PERIOD OF TIME.
9. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING THE STORM WATER SYSTEM OR WATERS OF THE STATE.
10. ANY DISTURBANCE TO TEMPORARY AND PERMANENT BMP'S SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS.
11. THE PROPERTY OWNER AND SUBSEQUENT PROPERTY OWNERS WILL BE RESPONSIBLE FOR CONTINUED COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION, DURING CONSTRUCTION ACTIVITY ON THE SITE.
12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AND DISPOSED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED, OR AFTER, THE TEMPORARY MEASURES ARE NO LONGER NEEDED, WHICHEVER OCCURS FIRST.

UTILITY NOTES

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE THE PROPOSED WORK AND SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
2. CONTRACTOR SHALL ADJUST ALL UTILITY STRUCTURES TO FINAL GRADE.
3. STORM SEWER SHALL BE BEDDED IN ACCORDANCE WITH CDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" STANDARD SPECIFICATIONS.
4. STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) IN ACCORDANCE WITH ASTM C-76. PIPE SHALL BE CLASS III WITH WALL "B".
5. ALL STORM SEWER PIPE FLARED END SECTIONS SHALL BE INSTALLED WITH PREFABRICATED TRASH RACKS APPROPRIATE FOR THE PIPE SIZE AND AS SPECIFIED OR SUPPLIED BY THE MANUFACTURER.

GRADING NOTES

1. MATCH EXISTING GRADES AT LIMITS OF CONSTRUCTION.
2. IN AREAS OF UTILITY CONSTRUCTION OR DEMOLITION, RESTORE SURFACE TO EXISTING GRADES UNLESS OTHERWISE INDICATED.
3. ALL SPOT ELEVATIONS ARE FLOWLINE OF CURB AND GUTTER OR TOP OF PAVING UNLESS OTHERWISE NOTED.
4. ALL PROPOSED CONTOURS ARE TO TOP OF FINISHED PAVING AND LANDSCAPED AREAS UNLESS OTHERWISE NOTED.
5. MAXIMUM LANDSCAPE SLOPE SHALL BE 4(HOR) TO 1(VERT) UNLESS OTHERWISE NOTED.
6. REFER TO SOILS REPORT FURNISHED BY OWNER FOR ALL COMPACTION REQUIREMENTS.
7. ADD 5500 TO ALL SPOT ELEVATIONS TO REACH PROJECT VERTICAL DATUM.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND PROVIDE FOR ADEQUATE DRAINAGE THROUGH THE SITE DURING THE PROCESS OF EXCAVATION, GRADING AND EMBANKMENT. THE GRADE SHALL BE MAINTAINED IN SUCH CONDITION THAT IT IS WELL DRAINED AT ALL TIMES. THE CONTRACTOR SHALL NOT REDIRECT OR CONCENTRATE FLOWS SUCH THAT DAMAGE TO DOWNSTREAM PROPERTIES WILL OCCUR.
9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ADA TITLE III REGULATIONS (28 CFR PART 36, REVISED JULY 1, 1994) AND THE ADA AND ABA ACCESSIBILITY GUIDELINES (7/23/04). ALL SIDEWALKS AND CROSSWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM LONGITUDINAL SLOPE OF 5% IN THE EVENT THAT A DESIGN ELEMENT DOES NOT REFLECT THE ADA STANDARDS, THE MATTER MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

EROSION CONTROL NOTES

1. ALL SOILS EXPOSED DURING LAND DISTURBING ACTIVITY (STRIPPING, GRADING, UTILITY INSTALLATIONS, STOCKPILING, FILLING, ETC.) SHALL BE KEPT IN A ROUGHENED CONDITION BY RIPPING OR DISCING ALONG LAND CONTOURS UNTIL MULCH, VEGETATION, OR OTHER PERMANENT EROSION CONTROL IS INSTALLED. NO SOILS IN AREAS OUTSIDE PROJECT LIMITS SHALL REMAIN EXPOSED BY LAND DISTURBING ACTIVITY FOR MORE THAN THIRTY (30) DAYS BEFORE REQUIRED TEMPORARY OR PERMANENT EROSION CONTROL (E.G. SEED/MULCH, LANDSCAPING, ETC.) IS INSTALLED.
2. ALL TEMPORARY (STRUCTURAL) EROSION CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED OR RECONSTRUCTED BY THE CONTRACTOR AS NECESSARY AFTER EACH RUNOFF EVENT IN ORDER TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL RETAINED SEDIMENTS, PARTICULARLY THOSE ON PAVED ROADWAY SURFACES, SHALL BE REMOVED AND DISPOSED OF IN A MANNER AND LOCATION SO AS NOT TO CAUSE THEIR RELEASE INTO ANY DRAINAGEWAY.
3. NO SOIL STOCKPILE SHALL EXCEED TEN (10) FEET IN HEIGHT. ALL SOIL STOCKPILES SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER SILT FENCING. ANY SOIL STOCKPILE REMAINING AFTER 30 DAYS SHALL BE SEEDED AND MULCHED.
4. LOCAL ORDINANCE PROHIBITS THE TRACKING, DROPPING, OR DEPOSITING OF SOILS OR ANY OTHER MATERIAL ONTO STREETS BY OR FROM ANY VEHICLE. CONTRACTOR SHALL INSTALL VEHICLE TRACKING CONTROL AT DESIGNATED ENTRANCES. ANY INADVERTENTLY DEPOSITED MATERIAL SHALL BE CLEANED IMMEDIATELY BY THE CONTRACTOR.
5. CRIMPED STRAW MULCH SHALL BE PLACED OVER ALL DISTURBED AREAS REQUIRING TEMPORARY SEEDING.
6. ALL TOPSOIL SHALL BE SALVAGED. TOPSOIL AND OVERBURDEN SHALL BE REDISTRIBUTED WITHIN THE GRADED AREA AFTER ROUGH GRADING TO PROVIDE A SUITABLE BASE FOR AREAS WHICH WILL BE SEEDED AND PLANTED. RUNOFF FROM STOCKPILED AREAS SHALL BE CONTROLLED TO PREVENT EROSION.
7. SOIL STABILIZATION MEASURES SHALL BE APPLIED WITHIN 30 DAYS TO DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL BE LEFT DORMANT FOR LONGER THAN 60 DAYS.
8. FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY, AS DEFINED BY THE COLORADO DEPARTMENT OF HEALTH, AT THE TIME OF GRADING.
9. DISTURBED AREAS SHALL BE RESEDED IN ACCORDANCE WITH THE LANDSCAPE PLANS.

GENERAL NOTES

1. ALL CONTRACTORS UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF COLORADO CODE TITLE 9, ARTICLE 1.5, AS AMENDED, CONCERNING PREVENTION OF DAMAGE TO UNDERGROUND FACILITIES RESULTING FROM EXCAVATIONS (Utility Notification Act). LOCATION OF EXISTING AND PROPOSED UNDERGROUND UTILITIES AND FACILITIES SHOWN ON THE DRAWINGS HAVE BEEN DEVELOPED FROM INFORMATION MADE AVAILABLE. COMPLETENESS AND ACCURACY OF LOCATION AND DEPTH OF UTILITIES AND FACILITIES SHOWN ON THESE PLANS CANNOT BE GUARANTEED. OTHER UTILITIES MAY BE PRESENT AT THIS LOCATION NOT SHOWN ON THIS PLANS. THE CONTRACTOR IS TO VERIFY THE DEPTH AND LOCATION OF ALL UTILITIES AND FACILITIES BEFORE THE START OF WORK. UTILIZE HAND EXCAVATION AS REQUIRED. WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARDS OF THE UTILITY COMPANIES WHOSE FACILITIES ARE IN THE PROXIMITY OF THE WORK. PURSUANT TO THE REQUIREMENTS OF COLORADO CODE, THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987, AT LEAST 2 DAYS PRIOR TO EXCAVATION.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL CODES, AND ALL REGULATIONS APPURTENANT TO THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.
3. CONTRACTOR SHALL PROVIDE PROTECTION AND SUPPORT FOR EXISTING UTILITIES UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY UTILITY LINE INTERRUPTION AT NO ADDITIONAL CONTRACT COST.
4. CONTRACTORS SHALL VERIFY ALL DIMENSIONS, INVERTS, ELEVATIONS, AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK. VARIATIONS BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR TO ANY SIDEWALKS, LAWN, TREES, PAVING, AND OTHER IMPROVEMENTS DISTURBED OR DAMAGED BY CONSTRUCTION OR DEMOLITION ACTIVITIES PROPOSED HEREIN.
6. CONTRACTOR SHALL PROVIDE PROPER TEMPORARY BRACING AND SHORING OF ALL CONSTRUCTION OR DEMOLITION WORK IN PROGRESS.
7. CONTRACTOR SHALL PROVIDE THE LAYOUT, LINE AND GRADE UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL WORK ALL THE PROJECT DRAWINGS AND SPECIFICATIONS TOGETHER.
9. COORDINATE EXISTING AND PROPOSED CONSTRUCTION WITH OTHER PROJECT CONSTRUCTION PACKAGES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND OSHA REGULATIONS.
11. CONTRACTOR SHALL PROVIDE TEMPORARY DEWATERING OF EXCAVATIONS THROUGHOUT THE DURATION OF CONTRACT AT NO ADDITIONAL COST.
12. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITHIN THE DRAWINGS, SPECIFICATIONS, CODES OR STANDARDS FOR DIRECTION PRIOR TO START OF WORK.
13. CONTRACTORS SHALL HAVE ALL REQUIRED SUBMITTAL APPROVALS PRIOR TO BEGINNING THE WORK OR ORDERING MATERIALS.
14. CONTRACTOR SHALL NOTIFY THE ENGINEER OF PREEXISTING CONDITIONS OF DETERIORATION OR UNDERDESIGN IN AREAS OF WORK THAT ARE UNCOVERED OR EXPOSED DURING THE WORK.
15. PROFESSIONAL INSPECTION AND ACCEPTANCE OF CONSTRUCTION FOR CONFORMANCE TO THE APPLICABLE STANDARDS AND CODES IS THE RESPONSIBILITY OF THE OWNER. SITE OBSERVATION OF THE GEOTECHNICAL ASPECTS OF THE PROJECT IS TO BE DONE UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER. THE OWNER OR THE OWNER'S CONSTRUCTION REPRESENTATIVE RESERVES THE RIGHT TO INSPECT ANY PORTION OF THE WORK AND REQUEST CORRECTION TO THE OWNER'S SATISFACTION FOR ALL WORK NOT COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. INSPECTION OR SITE OBSERVATION OF WORK BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF CONFORMING TO THE DRAWINGS AND SPECIFICATIONS FOR ALL CONSTRUCTION.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL DOCUMENT THE CONDITION OF ALL EXISTING FEATURES TO REMAIN PRIOR TO THE BEGINNING OF WORK. ALL ITEMS DAMAGED OR DISTURBED SHALL BE REPAIRED OR REPLACED IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL CONTRACT COST.
2. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS TO OBTAIN WRITTEN PERMISSION FROM PROPERTY OWNERS FOR DISPOSAL LOCATIONS OUTSIDE THE LIMITS OF THE PROJECT. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS IN A MANNER WHICH IS LAWFUL.
3. WHERE PORTIONS OF IMPROVEMENTS ARE TO BE REMOVED, THE PORTIONS DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE. ALL DAMAGE TO STRUCTURES DESIGNATED TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. WHERE NEW CONSTRUCTION TIES INTO EXISTING IMPROVEMENTS, SUCH AS PAVEMENT, SIDEWALKS, CURBS, THE CONTRACTOR SHALL SAW CUT THE EXISTING IMPROVEMENTS TO A TRUE LINE, WITH A VERTICAL FACE AND TO A MINIMUM DEPTH OF 2-INCHES OR TO THE DEPTH OF THE REINFORCING STEEL, WHICHEVER OCCURS FIRST. IF THE EDGE IS DAMAGED DURING CONSTRUCTION, IT SHALL BE RE-CUT PRIOR TO CONSTRUCTING THE NEW IMPROVEMENTS.
5. CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE CLEARING OR DEMOLITION ACTIVITIES. SEE EROSION CONTROL PLANS.
6. DRAINAGE STRUCTURES SHALL NOT BE REMOVED UNTIL SATISFACTORY ARRANGEMENTS HAVE BEEN MADE TO ACCOMMODATE TRAFFIC AND DRAINAGE.



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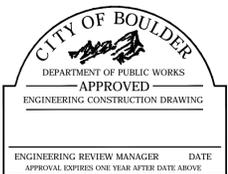
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C0.1



CITY OF BOULDER
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DRAINAGE _____



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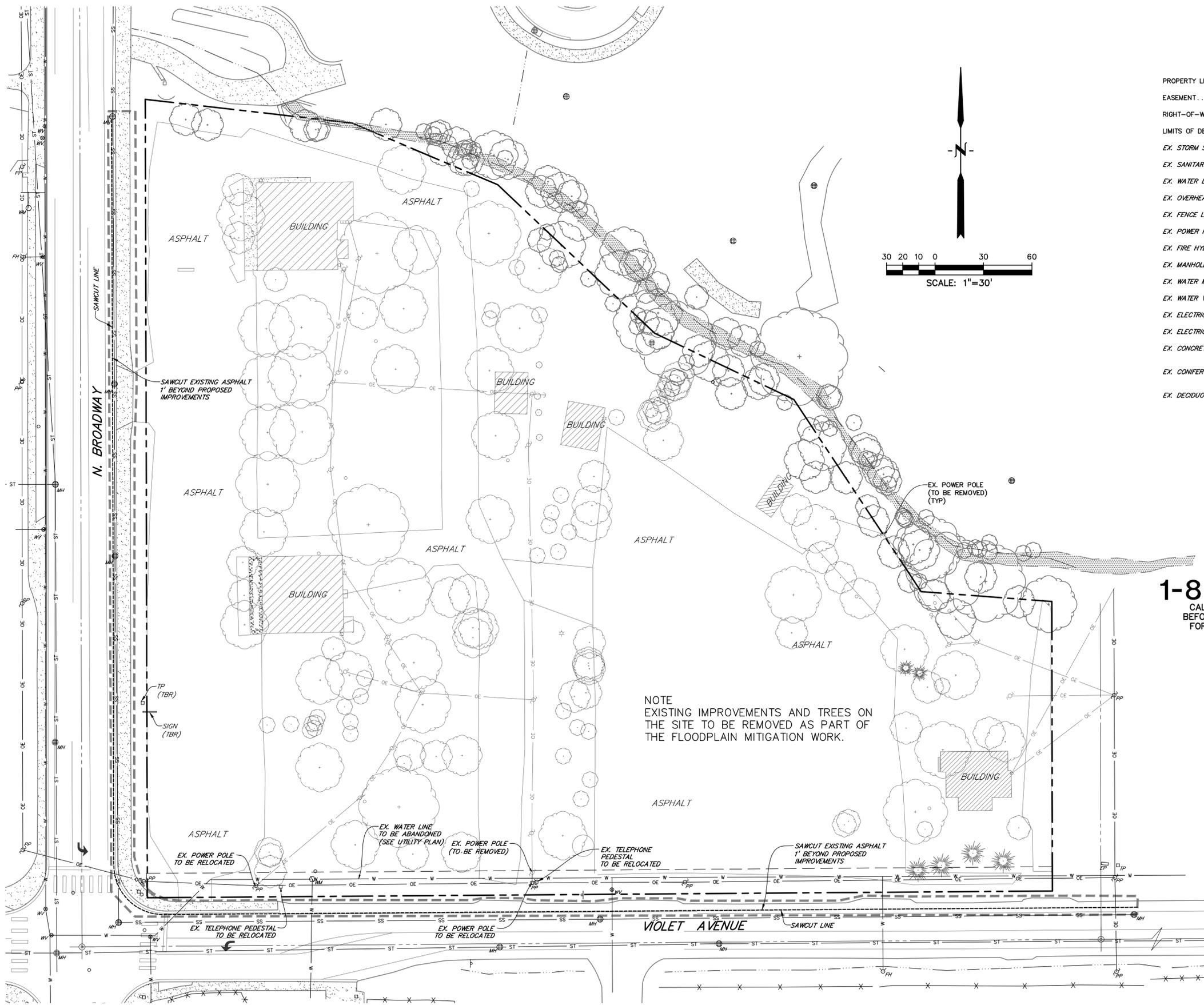
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EXISTING
CONDITIONS AND
SITE DEMO PLAN
SCALE: 1" = 30'
SHEET NUMBER

C0.2



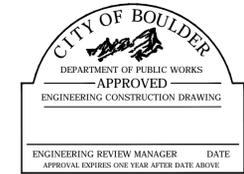
LEGEND

- PROPERTY LINE
- EASEMENT
- RIGHT-OF-WAY
- LIMITS OF DEMOLITION ON ROADWAYS
- EX. STORM SEWER ST
- EX. SANITARY SEWER SS
- EX. WATER LINE W
- EX. OVERHEAD ELECTRIC OE
- EX. FENCE LINE X X X
- EX. POWER POLE PP
- EX. FIRE HYDRANT FH
- EX. MANHOLE MH
- EX. WATER METER WM
- EX. WATER VALVE WV
- EX. ELECTRIC PEDESTAL EP
- EX. ELECTRIC PEDESTAL TP
- EX. CONCRETE
- EX. CONIFEROUS TREE
- EX. DECIDUOUS TREE



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

NOTE
EXISTING IMPROVEMENTS AND TREES ON
THE SITE TO BE REMOVED AS PART OF
THE FLOODPLAIN MITIGATION WORK.



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____



1530 15th Street
Denver, Colorado 80202
phone 303.449.8900

OUTSIDE L.A., LLC
2623 Burgess Creek Road
Steamboat Springs, CO 80487
303.444.9629
DREXEL, BARRELL & CO.
1630 59th Street
Boulder, CO 80301
303.442.4338

VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

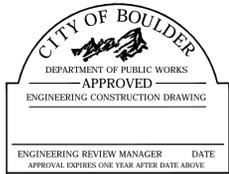


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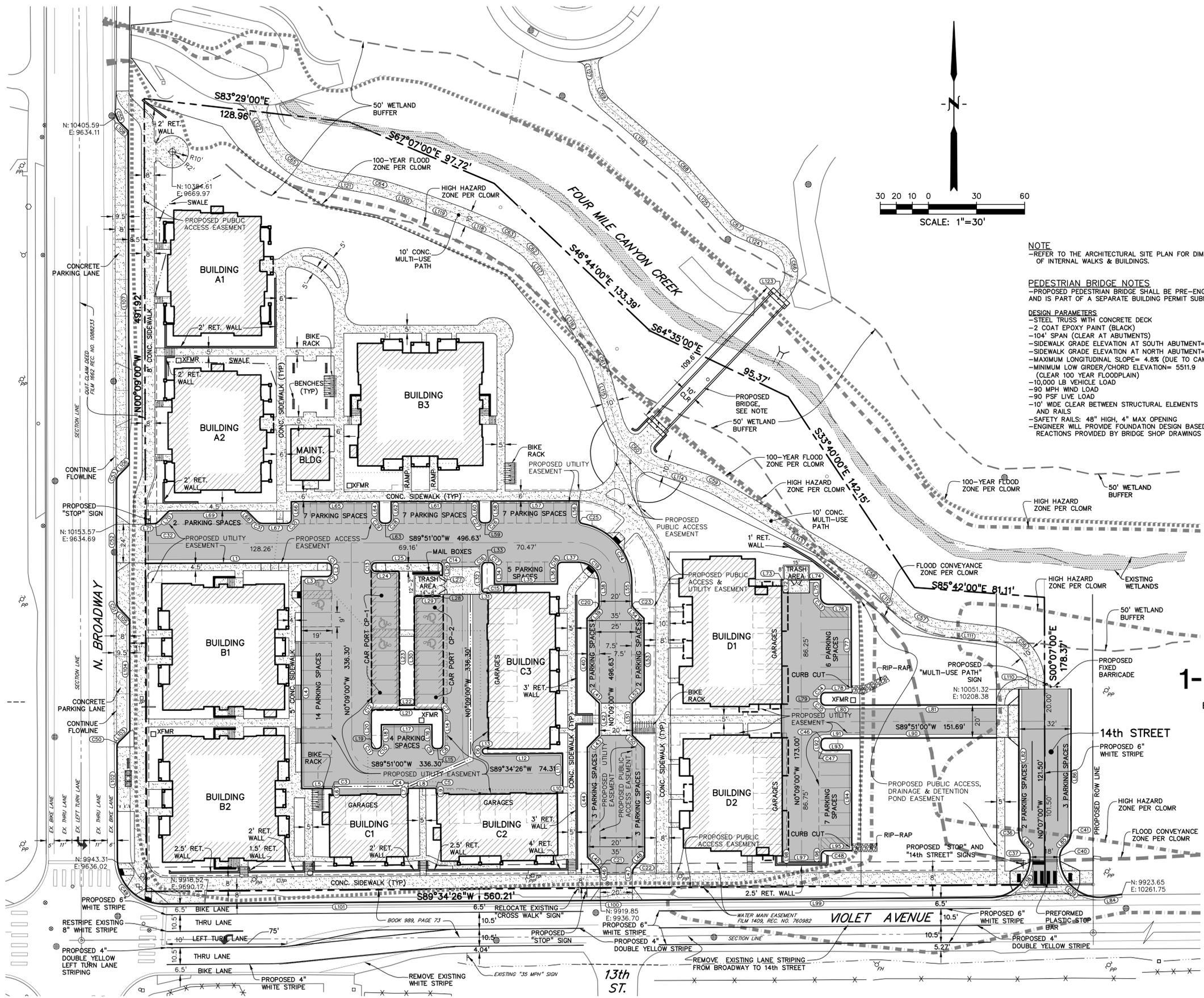
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

© OZ ARCHITECTURE

VIOLET CROSSING TECH
DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
HORIZONTAL
CONTROL PLAN
SCALE: 1" = 30'
SHEET NUMBER



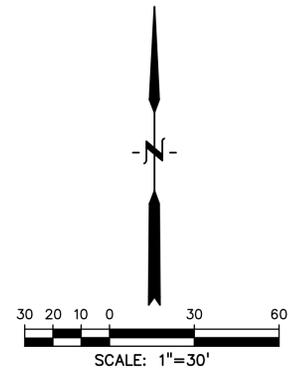
CITY OF BOULDER PUBLIC WORKS DEPARTMENT RECOMMENDATION FOR APPROVAL	ENGINEERING REVIEW MANAGER	DATE
WATER/SEWER		
TRANSPORTATION		
DRAINAGE		



NOTE
-REFER TO THE ARCHITECTURAL SITE PLAN FOR DIMENSIONS
OF INTERNAL WALKS & BUILDINGS.

PEDESTRIAN BRIDGE NOTES
-PROPOSED PEDESTRIAN BRIDGE SHALL BE PRE-ENGINEERED
AND IS PART OF A SEPARATE BUILDING PERMIT SUBMITTAL.

DESIGN PARAMETERS
-STEEL TRUSS WITH CONCRETE DECK
-2 COAT EPOXY PAINT (BLACK)
-104' SPAN (CLEAR AT ABUTMENTS)
-SIDEWALK GRADE ELEVATION AT SOUTH ABUTMENT= 5514.5'
-SIDEWALK GRADE ELEVATION AT NORTH ABUTMENT= 5514.5'
-MAXIMUM LONGITUDINAL SLOPE= 4.8% (DUE TO CAMBER)
-MINIMUM LOW GIRDER/CHORD ELEVATION= 5511.9
(CLEAR 100 YEAR FLOODPLAIN)
-10,000 LB VEHICLE LOAD
-90 MPH WIND LOAD
-90 PSF LIVE LOAD
-10' WIDE CLEAR BETWEEN STRUCTURAL ELEMENTS
AND RAILS
-SAFETY RAILS: 48" HIGH, 4" MAX OPENING
-ENGINEER WILL PROVIDE FOUNDATION DESIGN BASED ON
REACTIONS PROVIDED BY BRIDGE SHOP DRAWINGS



H:\19855-01 BLCVPlans\Sheets\1985501HC1.dwg, 3/31/2011 4:30:24 PM, TLT



1530 15th Street
Denver, Colorado 80202
phone 303.449.8900

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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

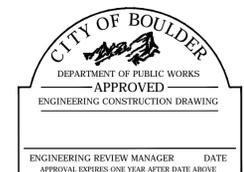
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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
HORIZONTAL
CONTROL TABLES

SCALE: N/A
SHEET NUMBER

C1.1



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

LINE TABLES FOR ROADWAYS & PARKING AREAS		
LINE #	LENGTH	DIRECTION
L1	113.03'	N89°51'00"E
L2	3.01'	S0°09'00"E
L3	16.00'	S89°51'00"W
L4	131.00'	S0°09'00"E
L5	18.05'	N89°51'00"E
L6	3.50'	S0°17'35"E
L7	2.60'	N0°16'50"W
L8	16.00'	N89°51'00"E
L9	2.52'	S0°25'34"E
L10	2.99'	N89°34'26"E
L11	24.00'	N0°09'00"W
L12	47.97'	S89°34'26"W
L13	1.48'	S89°34'26"W
L14	19.01'	S0°08'52"E
L15	1.36'	S89°51'00"W
L16	12.00'	N0°09'00"W
L17	31.00'	S89°51'00"W
L18	12.00'	S0°09'00"E
L19	0.81'	S89°51'00"W
L20	19.01'	N0°08'52"W
L21	39.18'	N89°51'00"E
L22	10.19'	N89°51'01"E
L23	83.00'	N0°09'00"W
L24	14.00'	S89°51'00"W
L25	38.69'	N89°51'00"E
L26	5.33'	S0°09'00"E
L27	2.00'	S89°51'00"W
L28	0.50'	S0°09'00"E
L29	15.52'	S89°50'55"W
L30	67.50'	S0°10'13"E
L31	1.97'	S89°51'00"W
L32	14.37'	N0°09'00"W
L33	2.37'	N89°51'00"E
L34	10.50'	S0°09'00"E
L35	38.75'	N89°51'00"E

LINE TABLES FOR ROADWAYS & PARKING AREAS		
LINE #	LENGTH	DIRECTION
L36	10.50'	N0°09'00"W
L37	10.35'	N89°51'00"E
L38	12.67'	S0°09'00"E
L39	8.54'	S44°51'00"W
L40	45.00'	S0°09'00"E
L41	10.61'	S45°09'00"E
L42	20.01'	S0°09'00"E
L43	10.61'	S44°51'00"W
L44	68.00'	S0°09'00"E
L45	8.54'	S45°09'00"E
L46	1.10'	S0°09'00"E
L47	1.01'	S0°09'00"E
L48	8.54'	S44°51'00"W
L49	68.00'	S0°09'00"E
L50	10.61'	S45°09'00"E
L51	20.00'	S0°09'00"E
L52	10.61'	S44°51'00"W
L53	45.00'	S0°09'00"E
L54	8.54'	S45°09'00"E
L55	12.67'	S0°09'00"E
L56	11.14'	S0°09'00"E
L57	54.25'	N89°51'00"E
L58	10.50'	N0°09'00"W
L59	2.00'	N89°51'00"E
L60	10.50'	S0°09'00"E
L61	54.25'	N89°51'00"E
L62	10.50'	N0°09'00"W
L63	2.00'	N89°51'00"E
L64	10.50'	S0°09'00"E
L65	54.25'	N89°51'00"E
L66	10.50'	N0°09'00"W
L67	15.23'	N89°51'00"E
L68	9.24'	S45°09'00"E
L69	48.00'	N89°51'00"E
L70	9.24'	N44°51'00"E

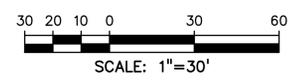
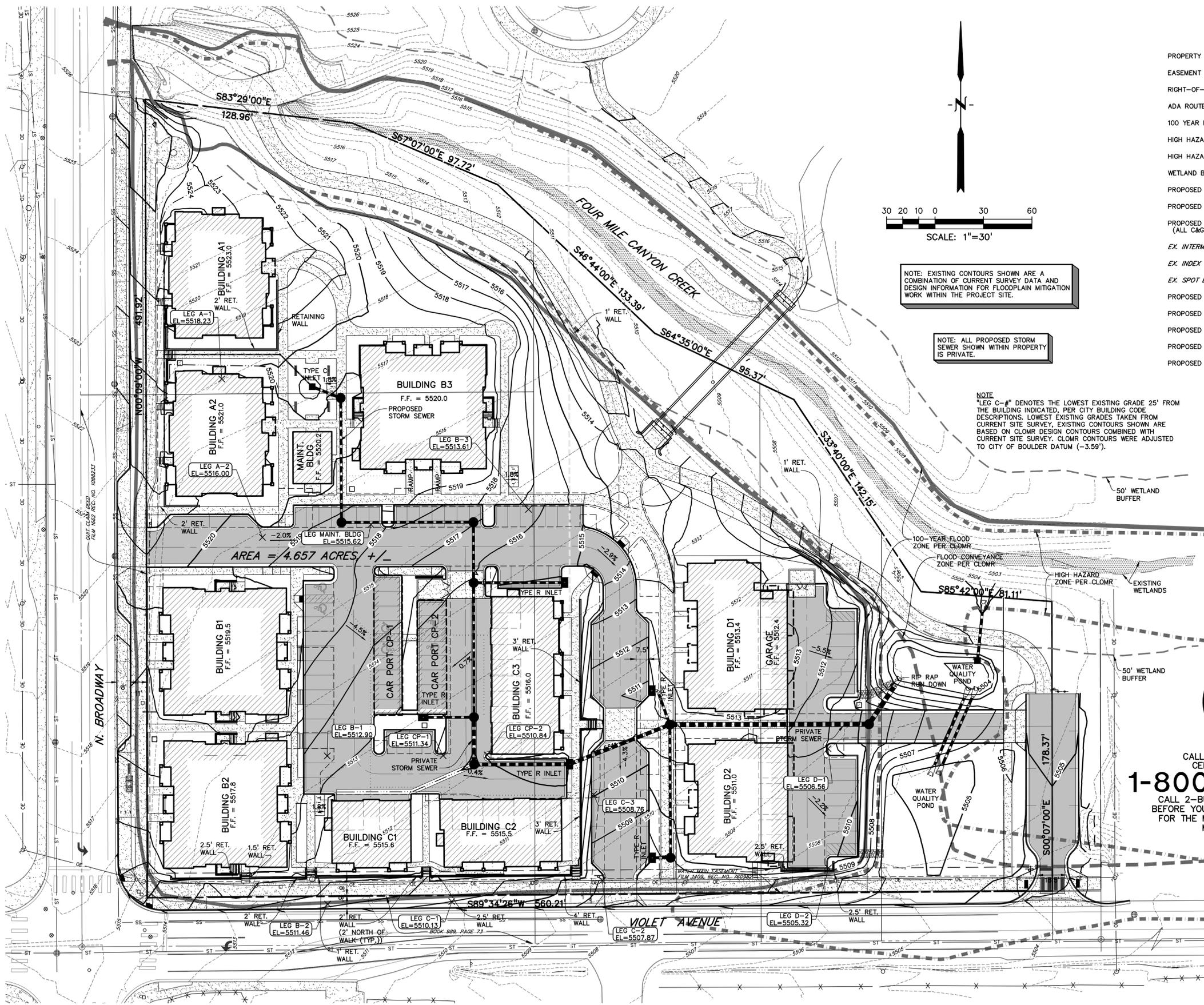
LINE TABLES FOR ROADWAYS & PARKING AREAS		
LINE #	LENGTH	DIRECTION
L71	4.91'	N89°51'00"E
L72	3.66'	S0°10'13"E
L73	1.00'	S89°49'47"W
L74	6.66'	S89°49'47"W
L75	10.33'	N0°10'13"W
L76	14.01'	S89°51'54"W
L77	51.25'	N0°09'00"W
L78	16.50'	N89°51'54"E
L79	2.34'	N0°09'00"W
L80	21.49'	S89°51'00"W
L81	99.40'	S89°51'00"W
L82	89.30'	S0°00'00"E
L83	1.56'	S45°09'00"E
L84	10.22'	N81°13'32"E
L85	1.65'	S44°55'00"W
L86	89.28'	S0°00'00"E
L90	99.25'	S89°51'00"W
L91	21.59'	S89°51'00"W
L92	2.00'	S0°09'00"E
L93	16.00'	N89°51'00"E
L94	58.75'	S0°09'00"E
L95	16.50'	S89°51'00"W
L96	4.00'	S0°09'00"E
L97	24.00'	S89°51'00"W
L98	3.67'	N0°09'00"W
L99	223.33'	S89°34'26"W
L100	20.00'	S89°34'26"W
L101	273.10'	S89°34'26"W
L102	69.58'	S0°11'33"E
L103	9.27'	S44°56'47"W
L104	69.08'	S0°06'45"E
L105	9.56'	S43°47'33"E
L106	9.21'	S44°15'04"W
L107	207.04'	S0°09'34"E
L108	7.28'	S44°49'05"E

LINE TABLES FOR ROADWAYS & PARKING AREAS		
LINE #	LENGTH	DIRECTION
L110	4.09'	N0°07'00"W
L111	29.79'	N83°49'10"W
L112	11.38'	N42°48'04"W
L113	97.14'	N60°03'33"W
L114	30.95'	N71°29'51"W
L115	35.00'	N15°19'27"W
L116	55.79'	N30°19'46"W
L117	15.16'	N36°38'51"W
L118	19.39'	N67°21'08"W
L119	27.10'	N69°59'17"W
L120	19.78'	N72°15'59"W
L121	30.20'	N79°54'20"W
L122	22.41'	N25°40'21"W
L123	3.55'	S43°37'05"W
L124	21.51'	S67°17'20"E
L125	41.75'	S41°25'30"E
L126	59.76'	S49°29'11"E
L127	15.94'	S10°53'33"E

CURVE TABLES FOR ROADWAYS & PARKING AREAS					
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C1	4.71'	3.00'	90°00'00"	S45°09'00"E	4.24'
C2	4.71'	3.00'	90°00'00"	S44°51'00"W	4.24'
C3	1.57'	1.00'	89°43'26"	S45°17'17"E	1.41'
C4	1.58'	1.00'	90°16'34"	N44°42'43"E	1.42'
C5	1.57'	1.00'	89°43'26"	S45°17'17"E	1.41'
C6	6.28'	2.00'	180°00'00"	S00°25'34"E	4.00'
C7	4.71'	3.00'	90°00'00"	N45°09'00"W	4.24'
C8	4.71'	3.00'	90°00'00"	N44°51'00"E	4.24'
C9	4.71'	3.00'	90°00'00"	S45°09'00"E	4.24'
C10	4.71'	3.00'	90°00'00"	N44°51'00"E	4.24'
C11	4.71'	3.00'	90°00'00"	S45°09'00"E	4.24'
C12	4.71'	3.00'	90°00'00"	S44°51'00"W	4.24'
C13	9.42'	3.00'	179°58'31"	N00°09'33"W	6.00'
C14	4.71'	3.00'	90°00'00"	S45°09'00"E	4.24'
C15	2.44'	1.62'	86°27'29"	N42°42'27"W	2.22'
C16	4.71'	3.00'	90°00'00"	N44°51'00"E	4.24'
C17	4.71'	3.00'	90°00'00"	S45°09'00"E	4.24'
C18	4.71'	3.00'	90°00'00"	N44°51'00"E	4.24'
C19	20.42'	13.00'	90°00'00"	S45°09'00"E	18.38'
C20	3.93'	5.00'	45°00'00"	S22°21'00"W	3.83'
C21	3.93'	5.00'	45°00'00"	S22°39'00"E	3.83'
C22	3.93'	5.00'	45°00'00"	S22°21'00"W	3.83'
C23	3.93'	5.00'	45°00'00"	S22°39'00"E	3.83'
C24	51.48'	37.00'	79°43'18"	S40°00'39"E	47.43'
C25	4.17'	3.00'	79°43'18"	S40°00'39"E	3.85'

CURVE TABLES FOR ROADWAYS & PARKING AREAS					
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C26	4.71'	3.00'	90°00'00"	N44°51'00"E	4.24'
C27	4.71'	3.00'	90°00'00"	S45°09'00"E	4.24'
C28	4.71'	3.00'	90°00'00"	N44°51'00"E	4.24'
C29	4.71'	3.00'	90°00'00"	S45°09'00"E	4.24'
C30	4.71'	3.00'	90°00'00"	N44°51'00"E	4.24'
C31	3.93'	5.00'	45°00'00"	S67°39'00"E	3.83'
C32	3.93'	5.00'	45°00'00"	N67°21'00"E	3.83'
C33	7.85'	5.00'	89°57'54"	N45°09'09"W	7.07'
C34	4.71'	3.00'	90°00'54"	N44°51'27"E	4.24'
C35	4.71'	3.00'	90°00'00"	N45°09'00"W	4.24'
C36	7.88'	10.00'	45°09'00"	S22°34'30"E	7.68'
C37	7.88'	10.00'	45°09'00"	S22°34'30"E	7.68'
C38	39.13'	25.00'	89°41'26"	S44°43'43"W	35.26'
C39	43.05'	25.00'	98°39'28"	S49°26'44"E	37.92'
C40	7.88'	10.00'	45°09'00"	S22°20'30"W	7.68'
C41	7.84'	10.00'	44°55'00"	S22°27'30"W	7.64'
C46	4.71'	3.00'	90°00'00"	S44°51'00"W	4.24'
C47	4.71'	3.00'	90°00'00"	S45°09'00"E	4.24'
C48	4.71'	3.00'	90°00'00"	S44°51'00"W	4.24'
C49	44.10'	28.00'	90°14'00"	S45°18'33"E	39.68'
C50	3.86'	4.90'	45°08'21"	S22°22'37"W	3.76'
C51	3.68'	4.90'	43°04'21"	S22°15'23"E	3.60'
C52	75.91'	3819.54'	1°08'19"	S00°09'02"E	75.90'
C53	3.75'	4.90'	43°49'57"	S22°20'06"W	3.66'
C55	7.79'	10.00'	44°39'25"	S22°29'22"E	7.60'

CURVE TABLES FOR ROADWAYS & PARKING AREAS					
CURVE #	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD DISTANCE
C56	43.83'	30.00'	83°42'10"	N41°58'05"W	40.03'
C57	35.80'	50.00'	41°01'06"	S63°18'37"E	35.04'
C58	24.10'	80.00'	17°15'29"	N51°25'49"W	24.01'
C59	9.98'	50.00'	11°26'18"	N65°46'42"W	9.97'
C60	39.22'	40.00'	56°10'24"	S43°24'39"E	37.66'
C61	6.55'	25.00'	15°00'18"	N22°49'37"W	6.53'
C62	7.13'	25.00'	16°20'52"	N44°49'17"W	7.11'
C63	26.32'	105.03'	14°21'24"	N60°10'25"W	26.25'
C64	14.00'	105.00'	7°38'21"	N76°05'09"W	13.99'
C65	42.59'	45.00'	54°13'59"	S52°47'20"E	41.02'
C66	36.78'	19.00'	110°54'25"	N11°50'07"W	31.30'
C67	9.48'	21.00'	25°51'50"	S54°21'25"E	9.40'
C68	4.08'	29.00'	8°03'41"	N45°27'20"W	4.08'
C69	14.15'	21.00'	38°35'38"	S30°11'22"E	13.88'



NOTE: EXISTING CONTOURS SHOWN ARE A COMBINATION OF CURRENT SURVEY DATA AND DESIGN INFORMATION FOR FLOODPLAIN MITIGATION WORK WITHIN THE PROJECT SITE.

NOTE: ALL PROPOSED STORM SEWER SHOWN WITHIN PROPERTY IS PRIVATE.

NOTE: "LEG C-#" DENOTES THE LOWEST EXISTING GRADE 25' FROM THE BUILDING INDICATED, PER CITY BUILDING CODE DESCRIPTIONS. LOWEST EXISTING GRADES TAKEN FROM CURRENT SITE SURVEY, EXISTING CONTOURS SHOWN ARE BASED ON CLOMR DESIGN CONTOURS COMBINED WITH CURRENT SITE SURVEY. CLOMR CONTOURS WERE ADJUSTED TO CITY OF BOULDER DATUM (-3.59').

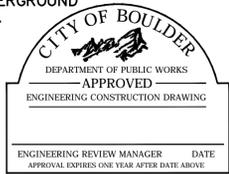
LEGEND

- PROPERTY LINE
- EASEMENT
- RIGHT-OF-WAY
- ADA ROUTE
- 100 YEAR FLOOD ZONE (PER CLOMR)
- HIGH HAZARD ZONE (PER CLOMR)
- HIGH HAZARD ZONE (PER CLOMR)
- WETLAND BUFFER
- PROPOSED INTERMEDIATE CONTOUR 64
- PROPOSED INDEX CONTOUR 65
- PROPOSED SPOT ELEVATION (ALL C&G ELEVATIONS ARE \bar{E} U.N.D.) x 54.67
- EX. INTERMEDIATE CONTOUR -5364
- EX. INDEX CONTOUR -5365
- EX. SPOT ELEVATIONS x 45.34
- PROPOSED STORM SEWER
- PROPOSED MANHOLE
- PROPOSED INLET
- PROPOSED MANHOLE DESIGNATOR 1
- PROPOSED INLET DESIGNATOR 2

BUILDING ELEVATION CHART				
BUILDINGS	F.F.	LEG	STRUCT HT.	BLDG. HT ABOVE EG
A-1	5523.0	5518.2	30'	34.8'
A-2	5521.0	5516.0	30'	35.0'
B-1	5519.5	5512.9	25.5'	32.1'
B-2	5517.8	5511.4	25.5'	31.9'
B-3	5520.0	5513.6	25.5'	31.9'
C-1	5515.6	5510.1	23.5'	29'
C-2	5515.5	5507.8	23.5'	31.2'
C-3	5516.0	5508.7	23.5'	30.8'
D-1	5513.4	5506.5	22'	28.9'
D-2	5511.0	5505.3	22'	27.7'
LEASE/MAINT. BLDG	5520.2	5515.6	20.7'	25.3'
CP-1	5517.6	5511.3	12'	18.3'
CP-2	5516.3	5510.8	12'	17.5'



CALL UTILITY NOTIFICATION CENTER OF COLORADO
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 PUBLIC WORKS DEPARTMENT
 RECOMMENDATION FOR APPROVAL

WATER/SEWER _____
 TRANSPORTATION _____
 DRAINAGE _____



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PROJ. NO. 16011.02
 DRAWN: TLT
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VIOLET CROSSING TECH DOCS
 ISSUED FOR:
 TECH DOCS SUBMITTAL
 CASE NO. LUR2010-00048
 & LUR2010-00050
 SHEET TITLE:
 OVERALL GRADING PLAN

SCALE: 1" = 30'
 SHEET NUMBER

C2.0



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NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

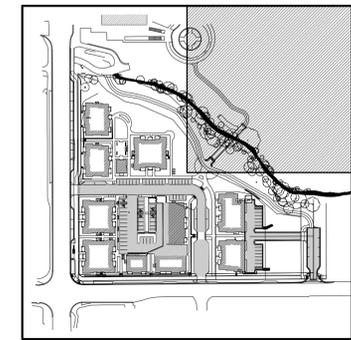
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

© OZ ARCHITECTURE

VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
DETAILED GRADING
PLAN - 2

SCALE: 1" = 20'
SHEET NUMBER

C2.2



KEYMAP
NOT TO SCALE

LEGEND

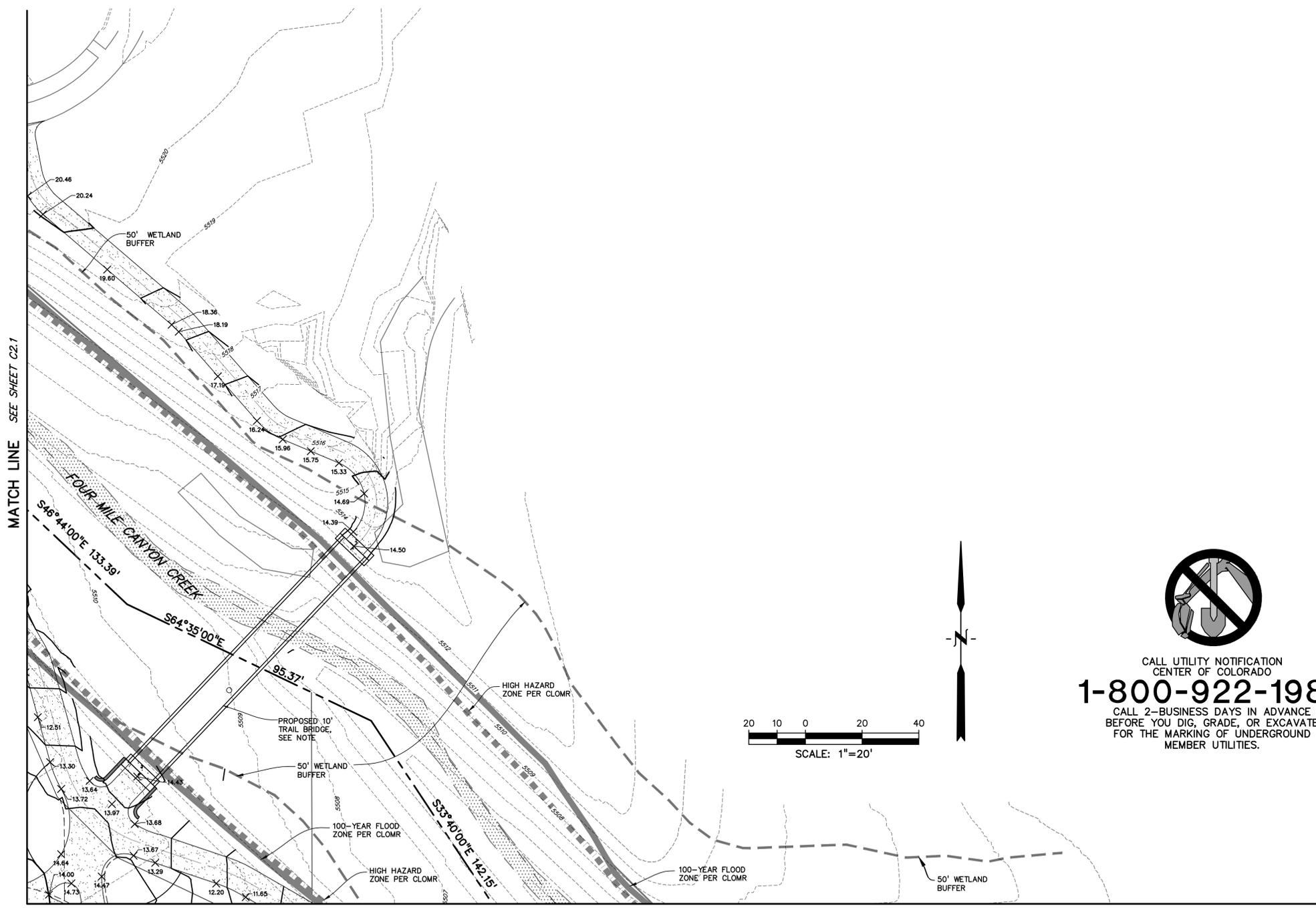
PROPERTY LINE	-----
EASEMENT	-----
RIGHT-OF-WAY	-----
ADA ROUTE	-----
100 YEAR FLOOD ZONE (PER CLOMR)	-----
HIGH HAZARD ZONE (PER CLOMR)	-----
HIGH HAZARD ZONE (PER CLOMR)	-----
WETLAND BUFFER	-----
PROPOSED INTERMEDIATE CONTOUR	----- 64
PROPOSED INDEX CONTOUR	----- 65
PROPOSED SPOT ELEVATION (ALL C&G ELEVATIONS ARE IN U.N.O.)	----- 54.67
EX. INTERMEDIATE CONTOUR	----- 5364
EX. INDEX CONTOUR	----- 5365
EX. SPOT ELEVATIONS	----- x 45.34
PROPOSED STORM SEWER	-----
PROPOSED MANHOLE	●
PROPOSED INLET	□
PROPOSED MANHOLE DESIGNATOR	1 2
PROPOSED INLET DESIGNATOR	1 2

NOTE: EXISTING CONTOURS SHOWN ARE A COMBINATION OF CURRENT SURVEY DATA AND DESIGN INFORMATION FOR FLOODPLAIN MITIGATION WORK WITHIN THE PROJECT SITE.

NOTE: ALL PROPOSED STORM SEWER SHOWN WITHIN PROPERTY IS PRIVATE.



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



MATCH LINE SEE SHEET C2.1

MATCH LINE SEE SHEET C2.4



1530 15th Street
Denver, Colorado 80202
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303.444.9629

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1630 39th Street
Boulder, CO 80301
303.442.4338

VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

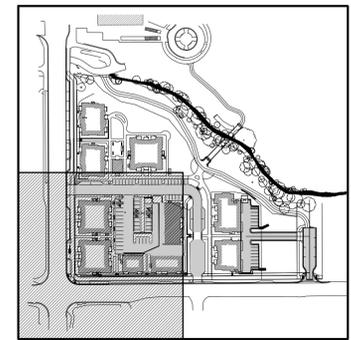
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
DETAILED GRADING
PLAN - 3

SCALE: 1" = 20'
SHEET NUMBER

C2.3



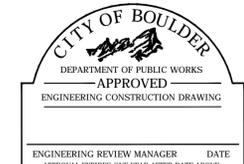
KEYMAP
NOT TO SCALE

LEGEND

- PROPERTY LINE
- EASEMENT
- RIGHT-OF-WAY
- ADA ROUTE
- 100 YEAR FLOOD ZONE (PER CLOMR)
- HIGH HAZARD ZONE (PER CLOMR)
- HIGH HAZARD ZONE (PER CLOMR)
- WETLAND BUFFER
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED SPOT ELEVATION
(ALL C&G ELEVATIONS ARE F.U.N.O.)
- EX. INTERMEDIATE CONTOUR
- EX. INDEX CONTOUR
- EX. SPOT ELEVATIONS
- PROPOSED STORM SEWER
- PROPOSED MANHOLE
- PROPOSED INLET
- PROPOSED MANHOLE DESIGNATOR
- PROPOSED INLET DESIGNATOR

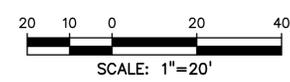
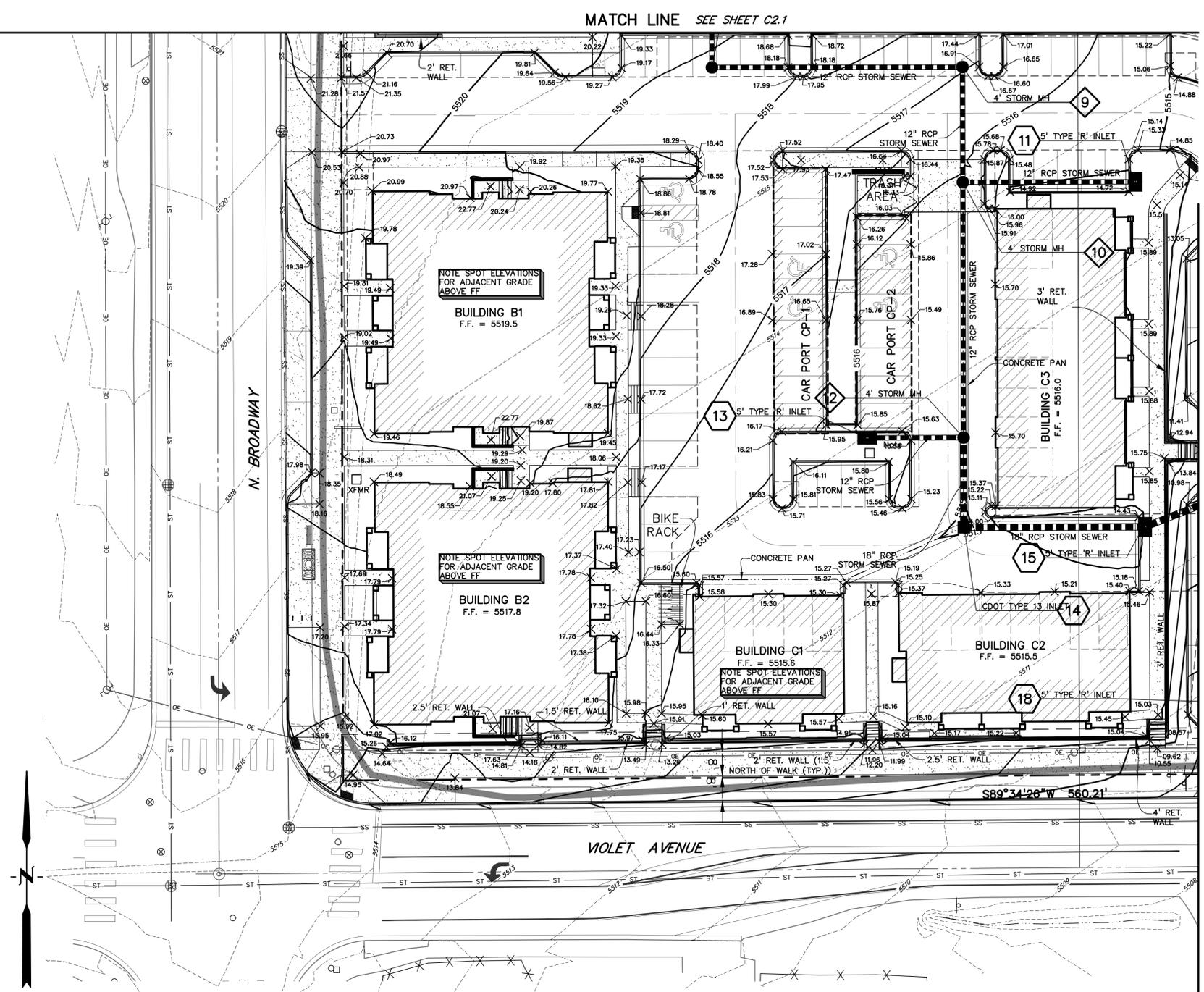
NOTE: EXISTING CONTOURS SHOWN ARE A COMBINATION OF CURRENT SURVEY DATA AND DESIGN INFORMATION FOR FLOODPLAIN MITIGATION WORK WITHIN THE PROJECT SITE.

NOTE: ALL PROPOSED STORM SEWER SHOWN WITHIN PROPERTY IS PRIVATE.



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL

WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____



CALL UTILITY NOTIFICATION
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CALL 2-BUSINESS DAYS IN ADVANCE
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FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

H:\19855-01 BLCVPlans\Sheets\1985501GP2.dwg, 3/31/2011 4:39:52 PM, TLT



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Denver, Colorado 80202
phone 303.449.8900

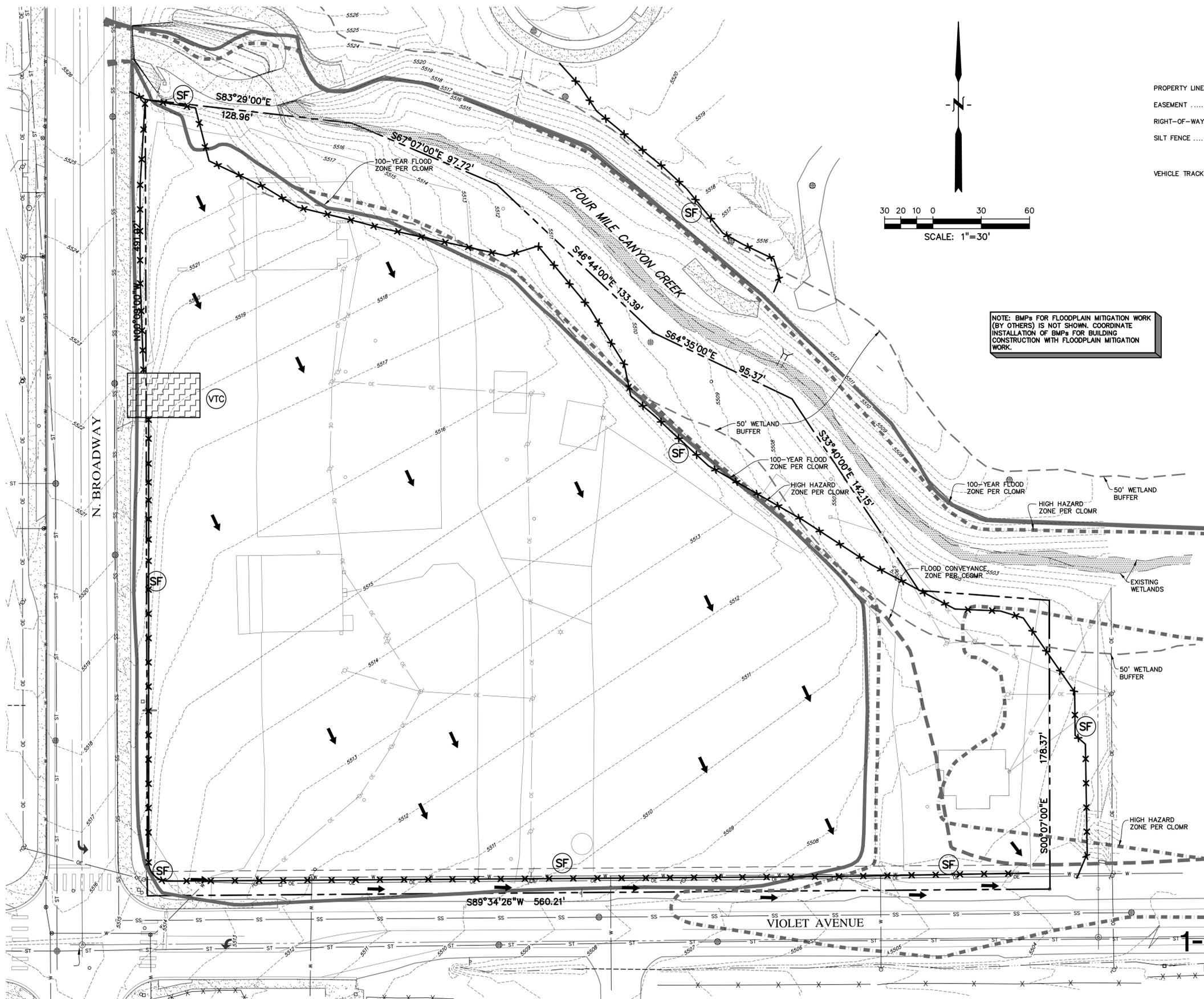
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303.444.9629
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Boulder, CO 80301
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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

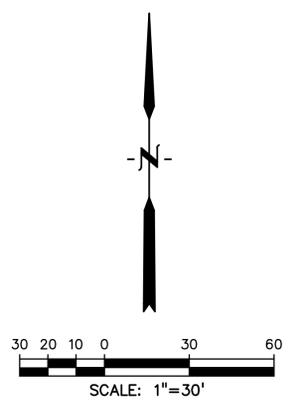
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
INITIAL STORM
WATER
MANAGEMENT PLAN
SCALE: 1" = 30'
SHEET NUMBER
C4.0

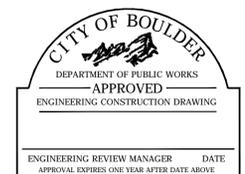


NOTE: BMPs FOR FLOODPLAIN MITIGATION WORK (BY OTHERS) IS NOT SHOWN. COORDINATE INSTALLATION OF BMPs FOR BUILDING CONSTRUCTION WITH FLOODPLAIN MITIGATION WORK.



LEGEND

PROPERTY LINE	-----
EASEMENT	- - - - -
RIGHT-OF-WAY
SILT FENCE	(SF) * * * * *
VEHICLE TRACKING CONTROL	(VTC) [hatched box]



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL

WATER/SEWER	_____
TRANSPORTATION	_____
DRAINAGE	_____



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



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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

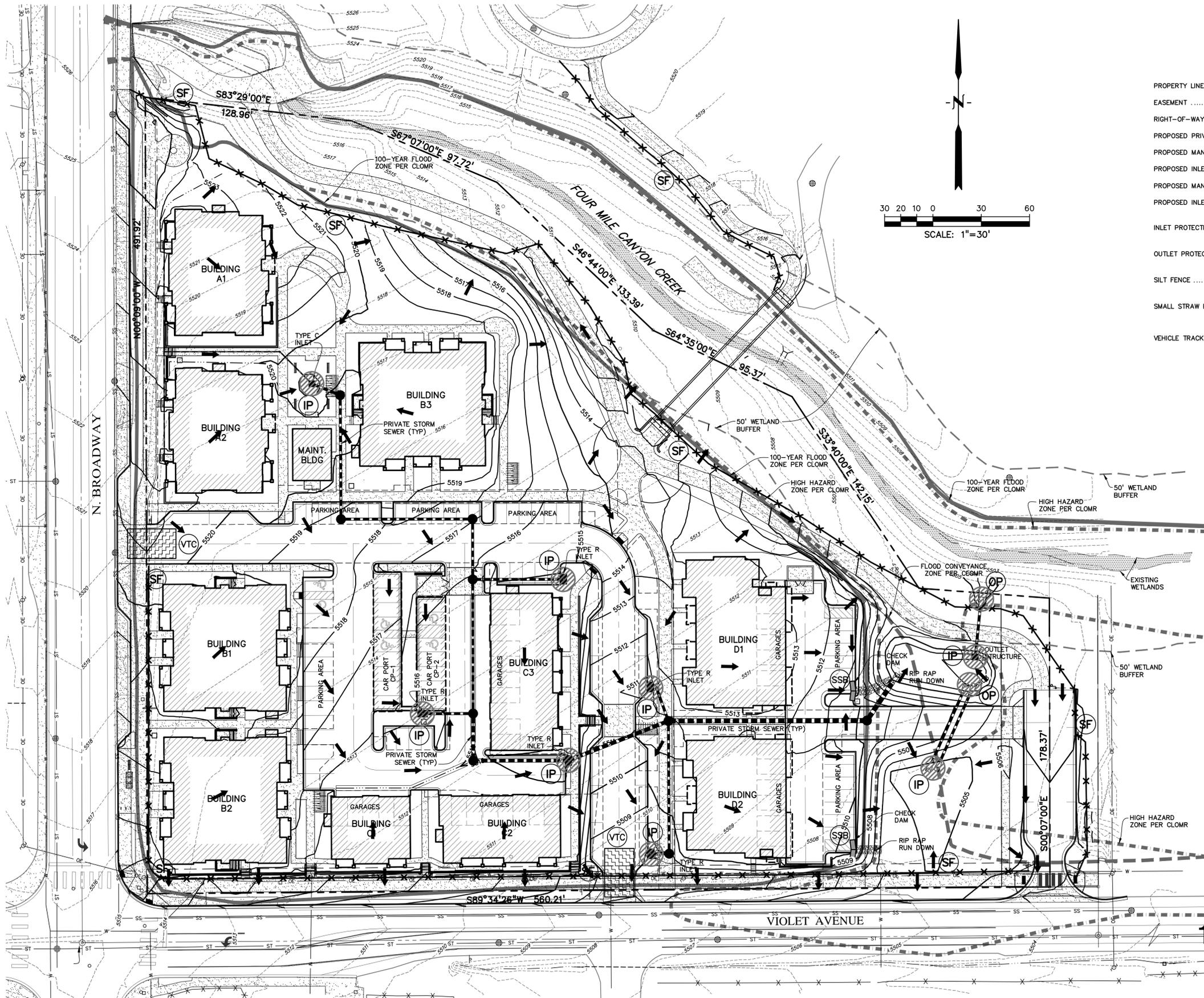
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
FINAL STORM WATER
MANAGEMENT PLAN

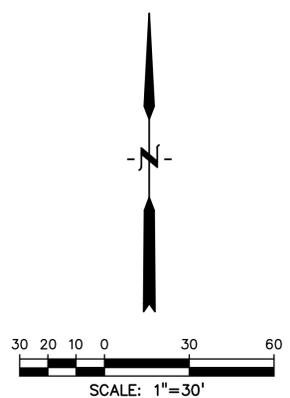
SCALE: 1" = 30'
SHEET NUMBER

C4.1



LEGEND

- PROPERTY LINE
- EASEMENT
- RIGHT-OF-WAY
- PROPOSED PRIVATE STORM SEWER
- PROPOSED MANHOLE
- PROPOSED INLET
- PROPOSED MANHOLE DESIGNATOR
- PROPOSED INLET DESIGNATOR
- INLET PROTECTION
- OUTLET PROTECTION
- SILT FENCE
- SMALL STRAW BALE CHECK DAM
- VEHICLE TRACKING CONTROL



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL

WATER/SEWER	_____
TRANSPORTATION	_____
DRAINAGE	_____



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1-800-922-1987
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BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

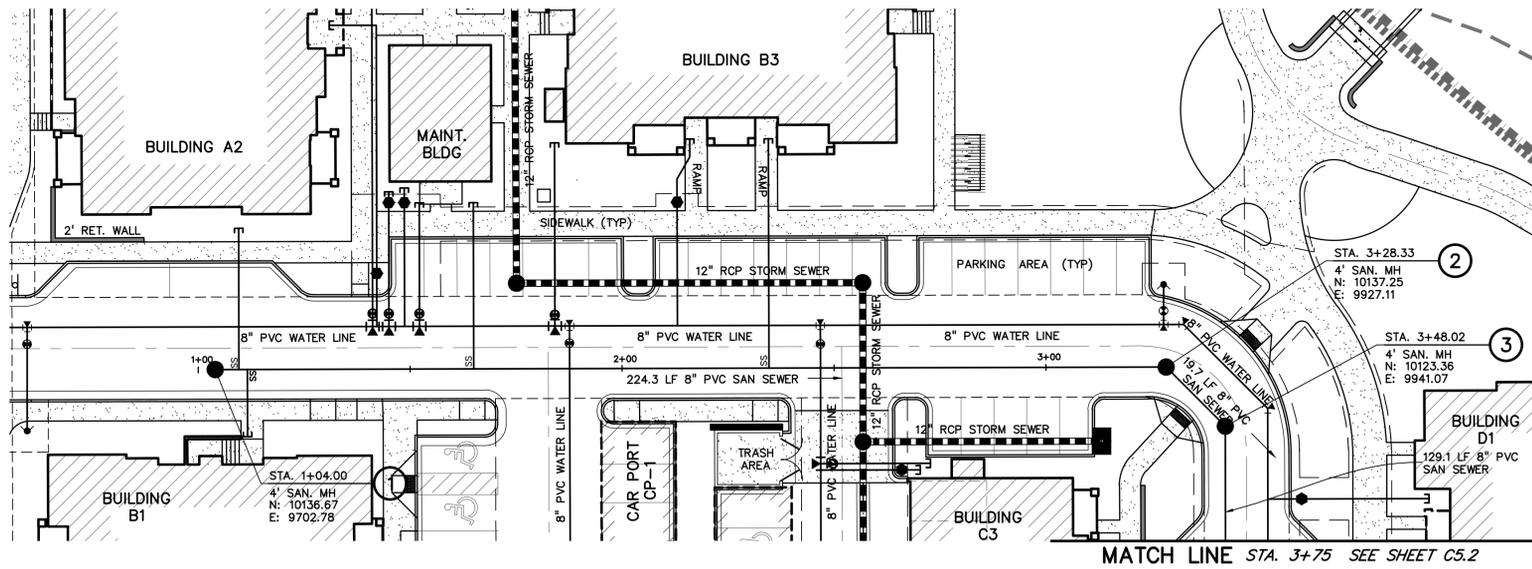


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phone 303.449.8900

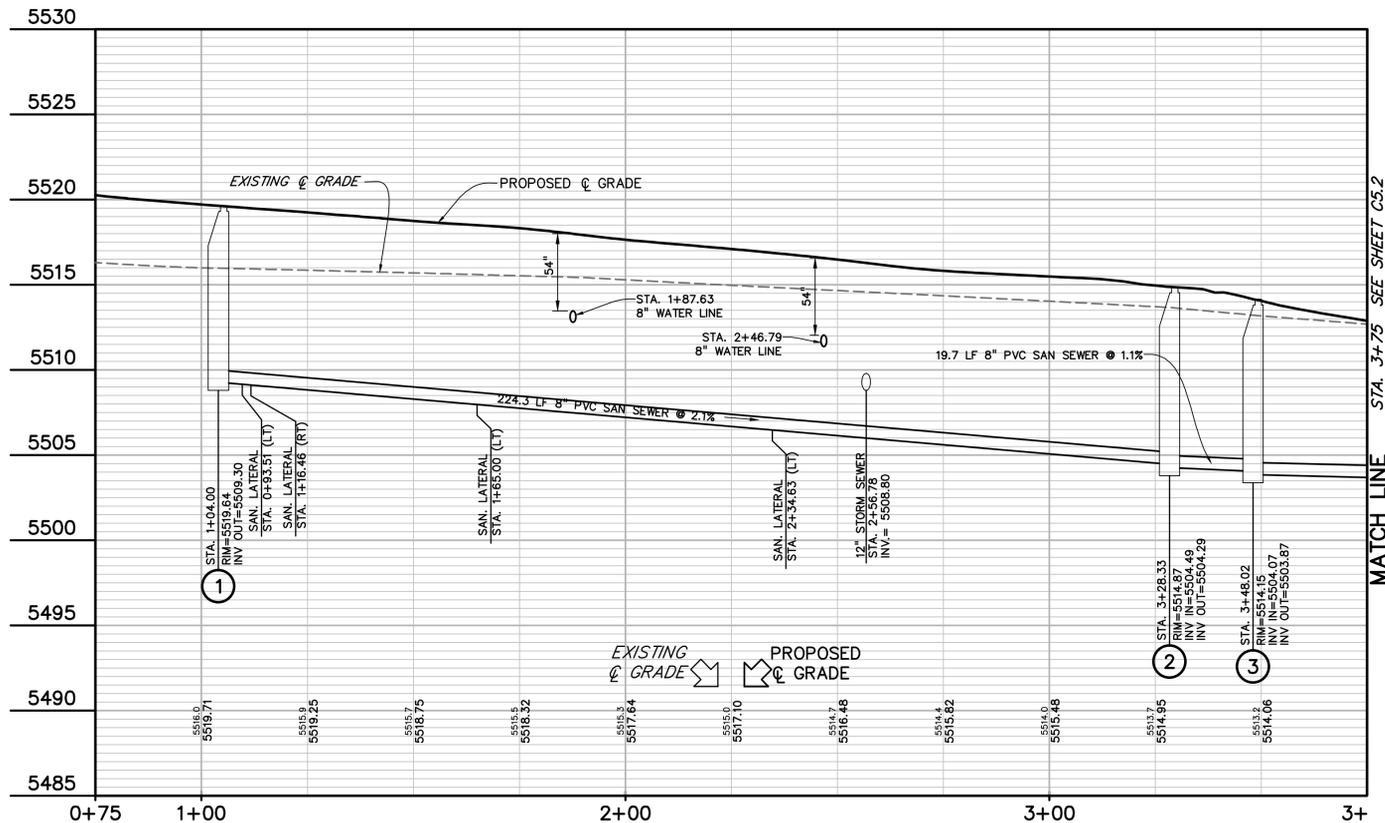
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303.442.4338

VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304



MATCH LINE STA. 3+75 SEE SHEET C5.2



MATCH LINE STA. 3+75 SEE SHEET C5.2



CALL UTILITY NOTIFICATION
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BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
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DRAWN: TLT
CHECKED: MAA
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DATE: APRIL 4, 2011
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CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
SANITARY SEWER
PLAN & PROFILE - 1

SCALE: 1" = 20'
SHEET NUMBER

C5.1



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phone 303.449.8900

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303.442.4338

VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

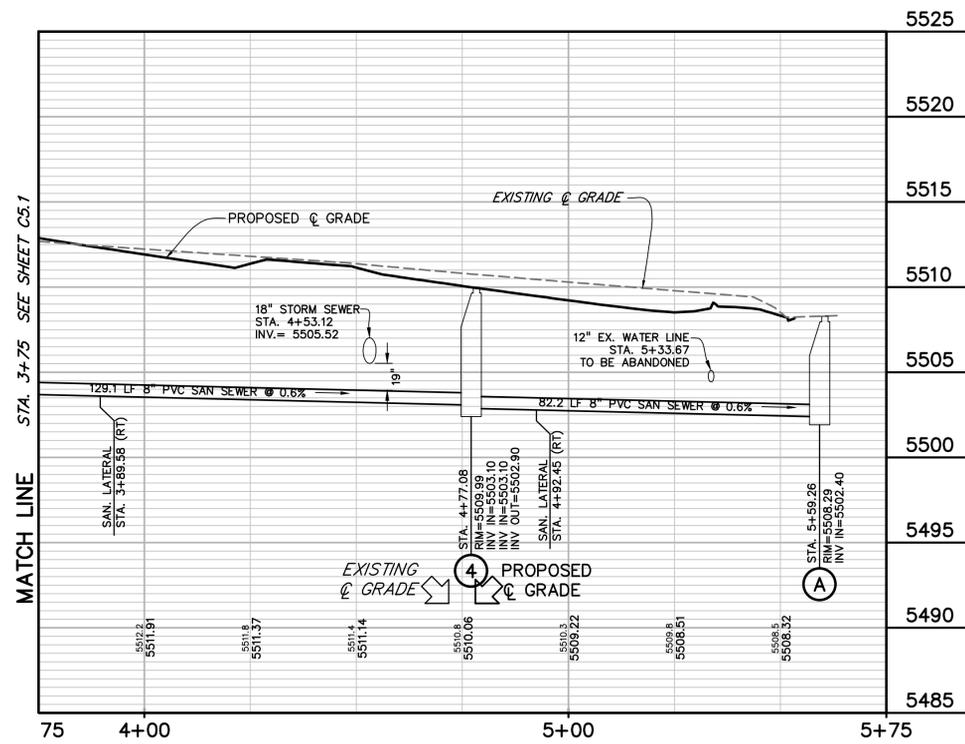
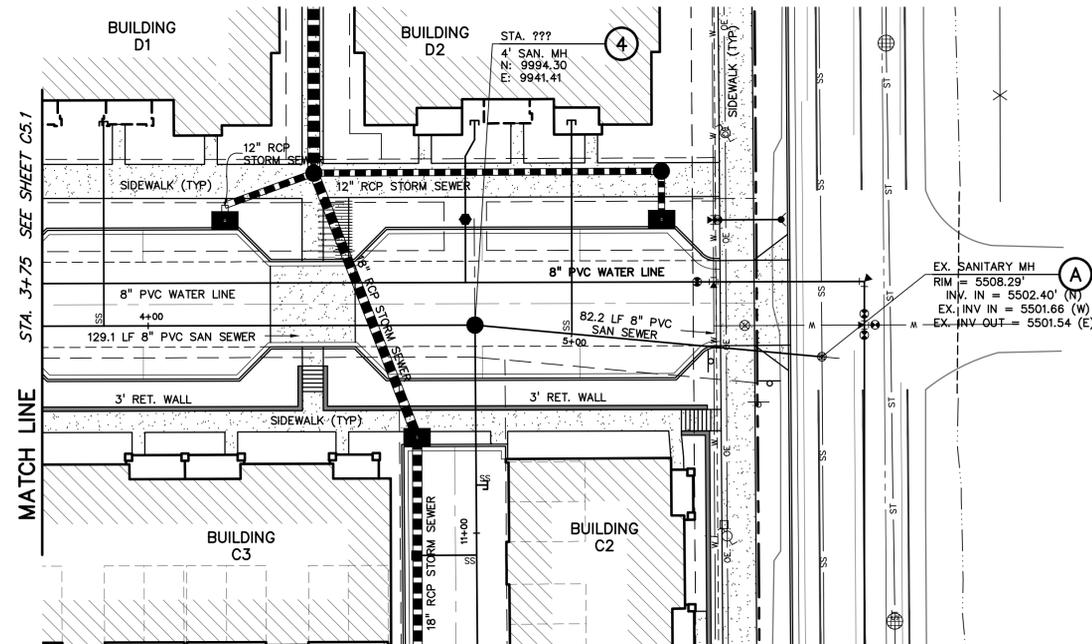
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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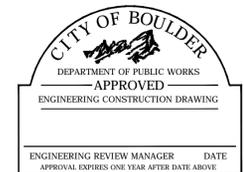
VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
SANITARY SEWER
PLAN & PROFILE - 2

SCALE: 1" = 20'
SHEET NUMBER

C5.2



CALL UTILITY NOTIFICATION
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BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

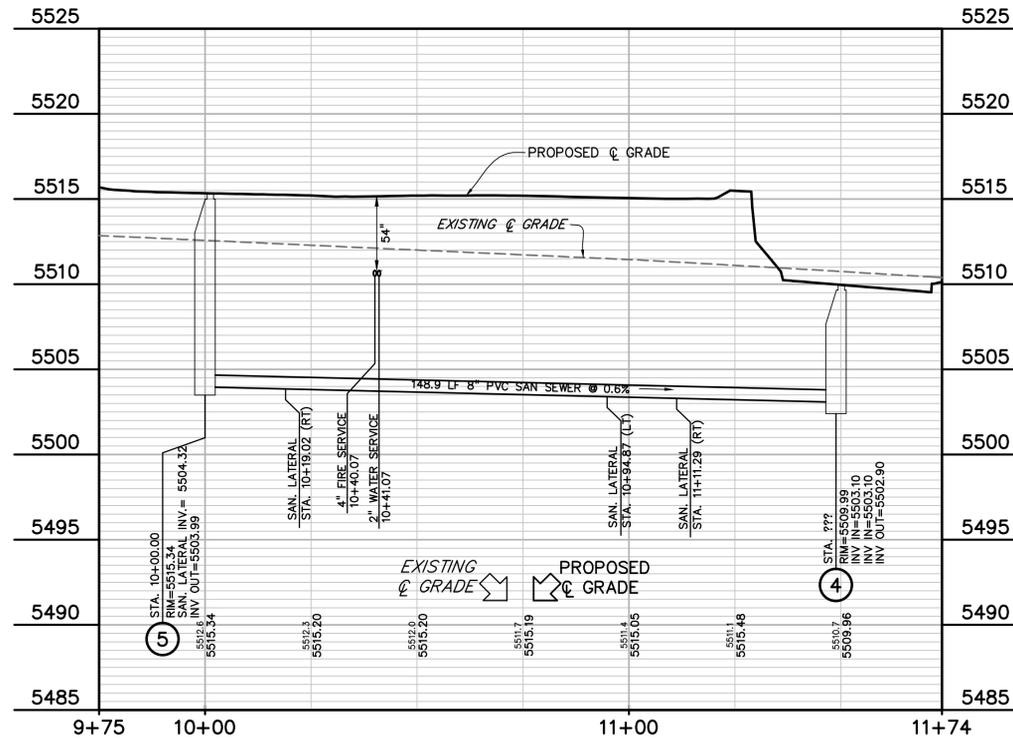
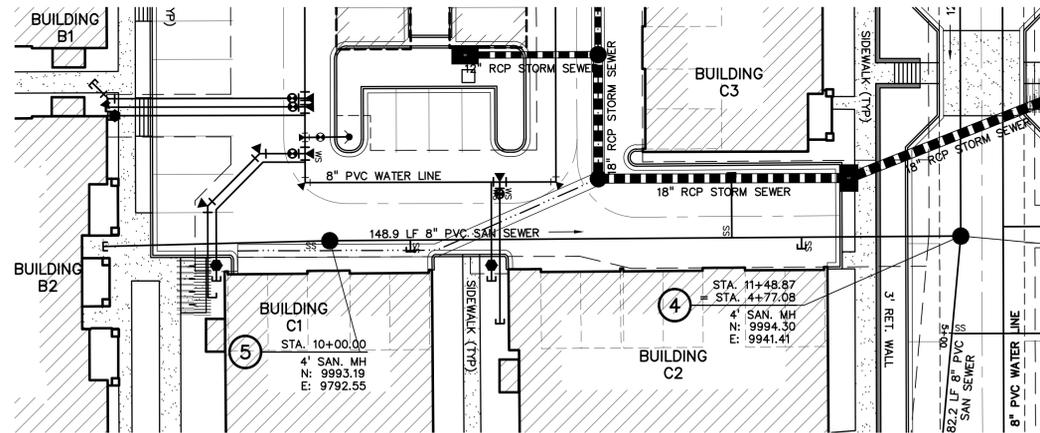


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303.442.4338

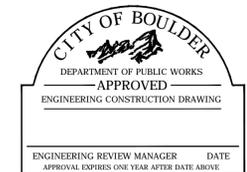
VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
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FOR THE MARKING OF UNDERGROUND
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PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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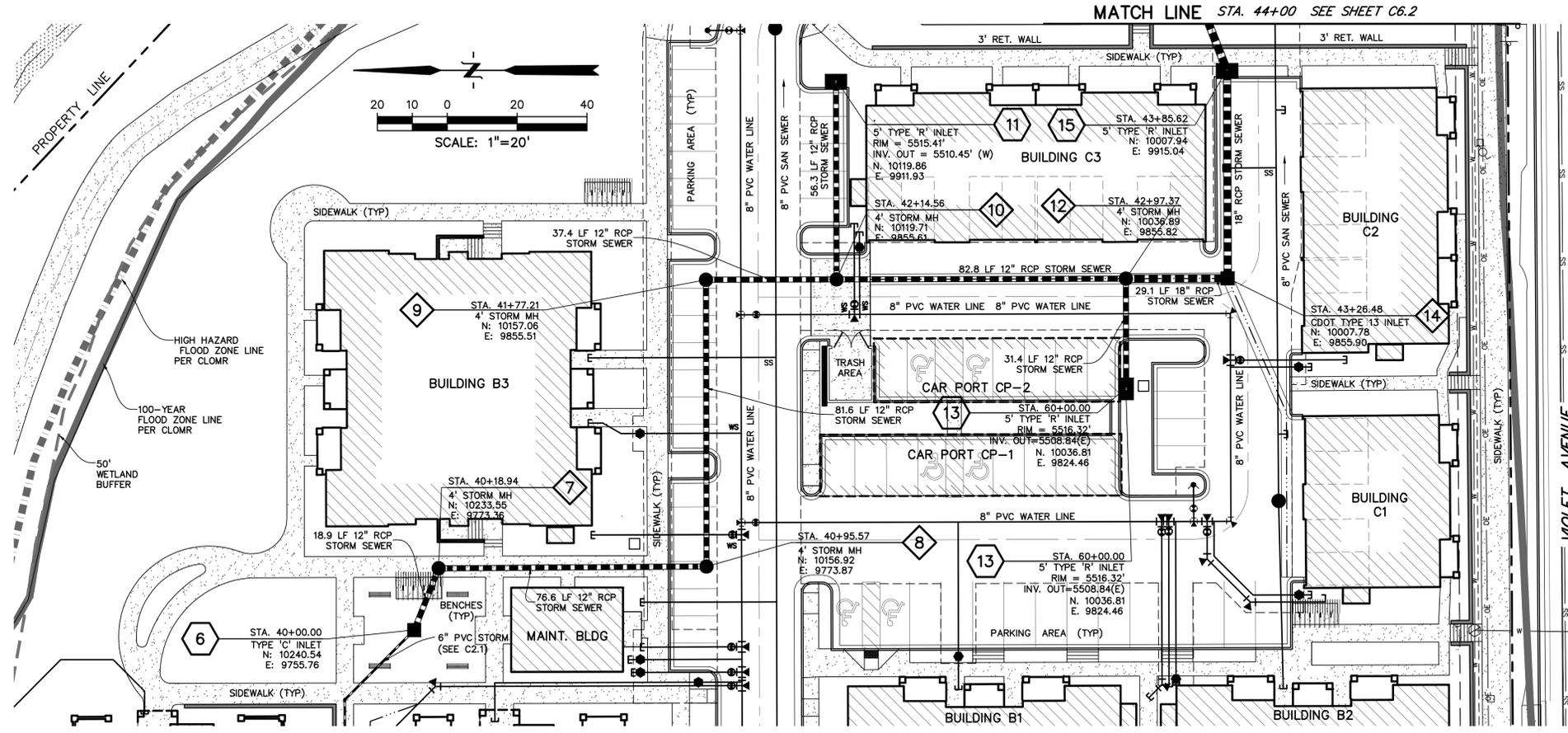


CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

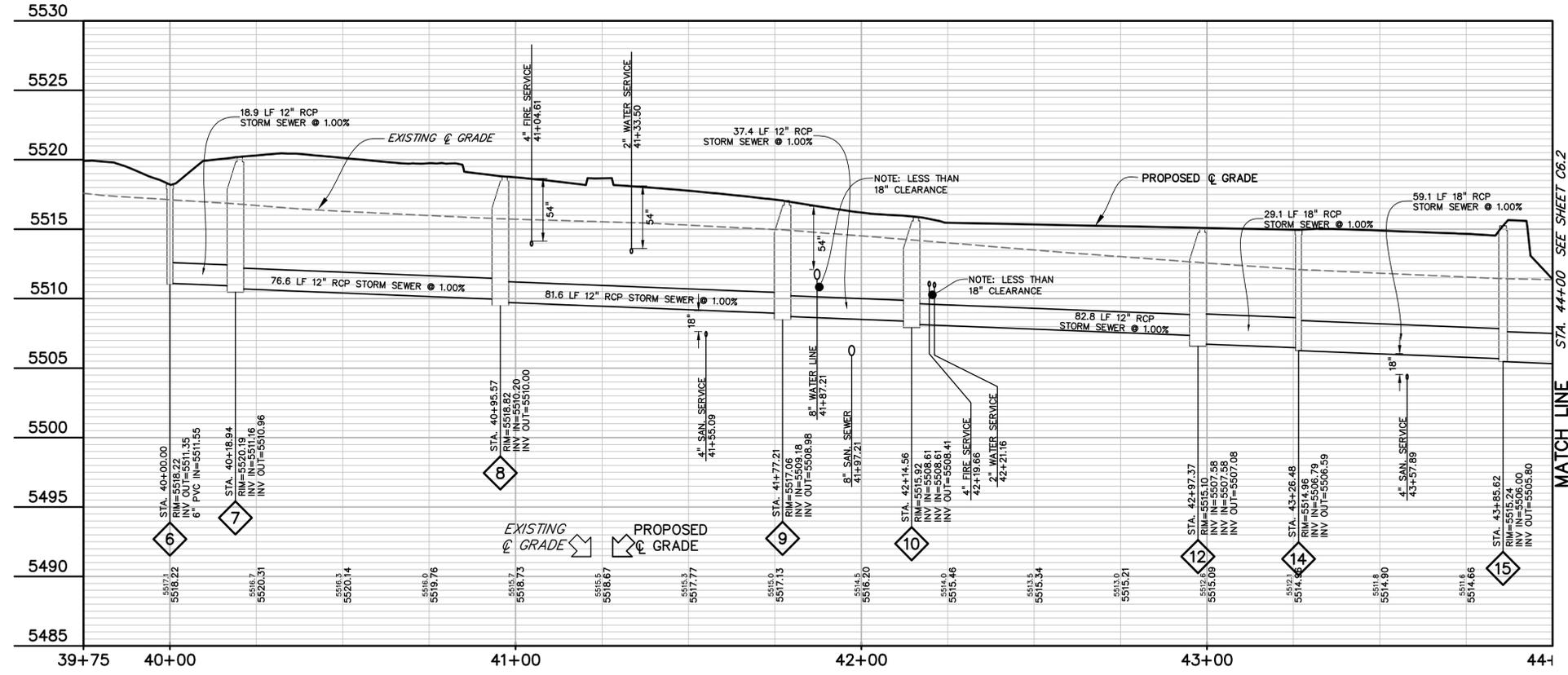
VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
SANITARY SEWER
PLAN & PROFILE - 3

SCALE: 1" = 20'
SHEET NUMBER

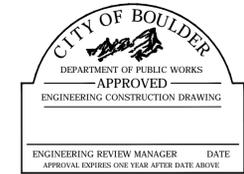
C5.3



NOTE: ALL PROPOSED STORM SEWER SHOWN WITHIN PROPERTY IS PRIVATE.



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



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL

WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

OZ ARCHITECTURE

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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

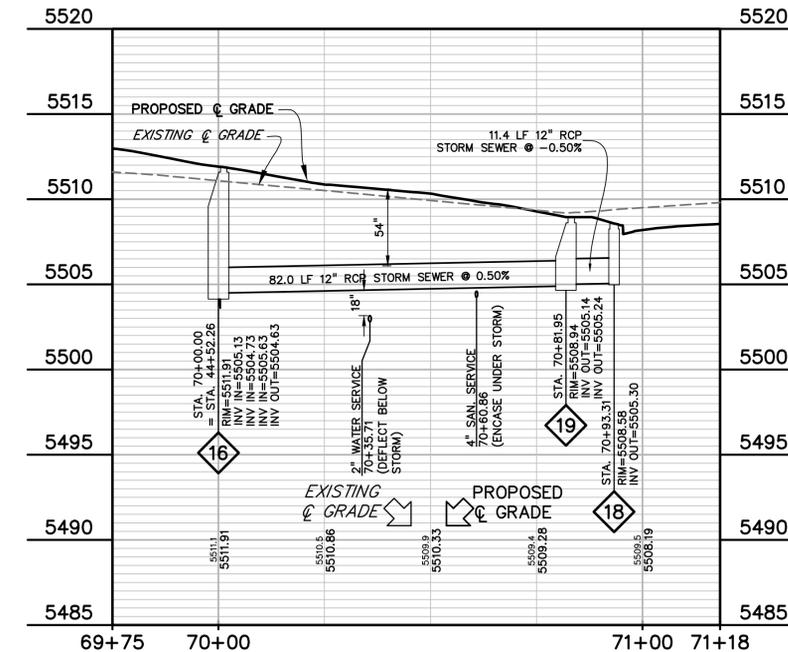
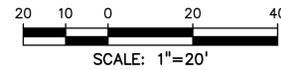
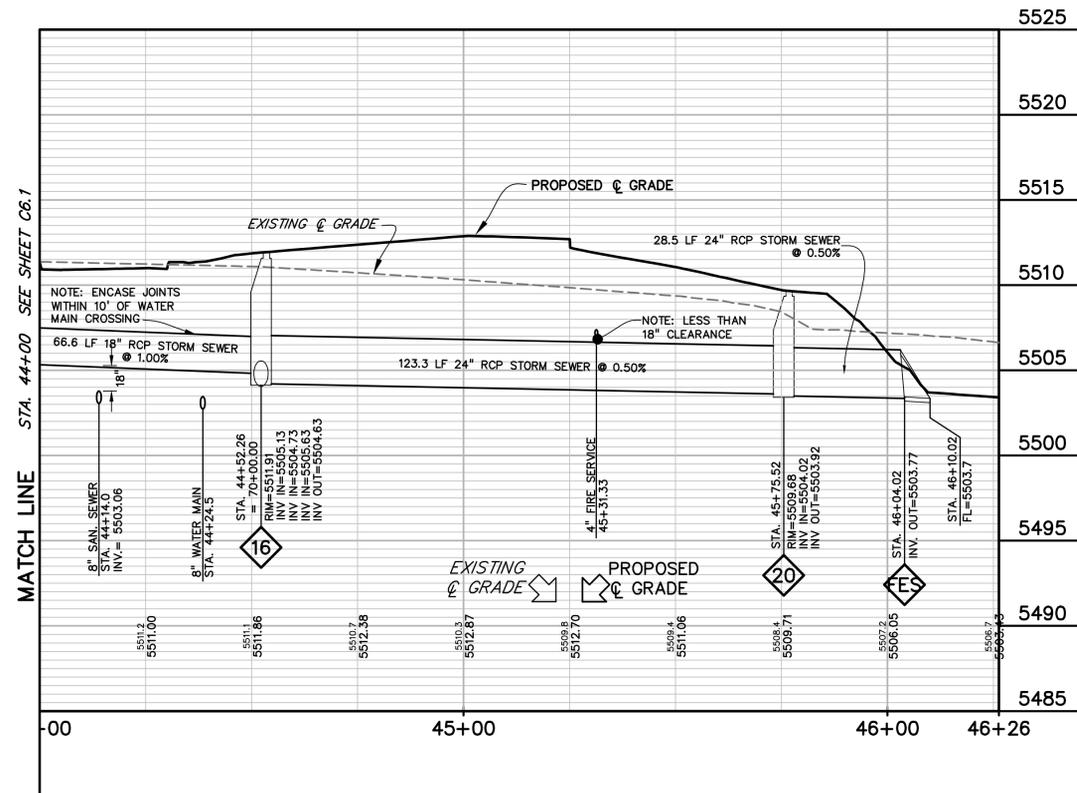
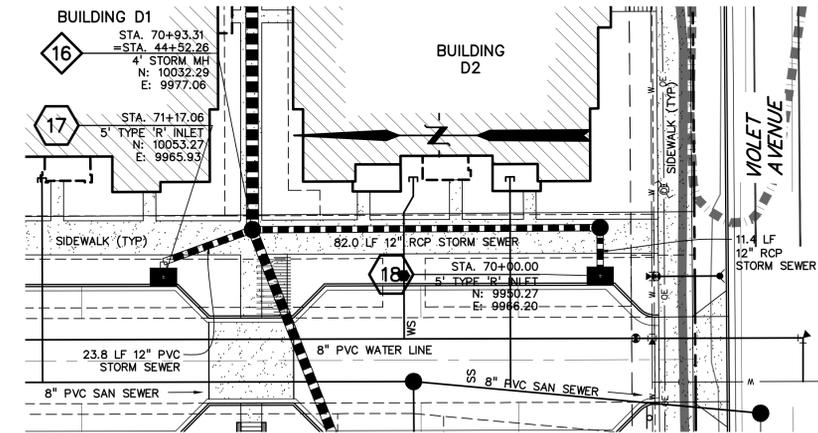
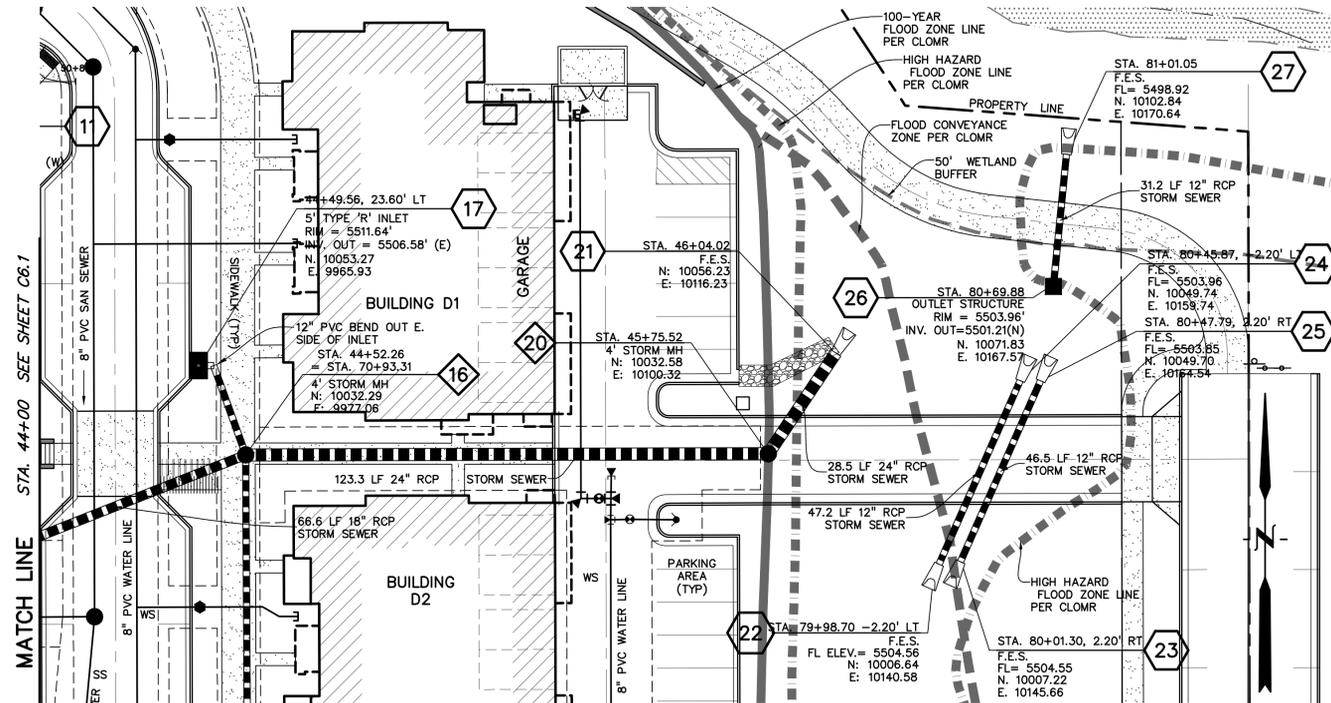
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VIOLET CROSSING TECH DOCS

ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050

SHEET TITLE:
STORM SEWER
PLAN & PROFILE - 1

SCALE: 1" = 20'
SHEET NUMBER
C6.1



NOTE: ALL PROPOSED STORM SEWER SHOWN WITHIN PROPERTY IS PRIVATE.



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



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL

WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

OZ ARCHITECTURE
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phone 303.449.8900

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DREXEL, BARRELL & CO.
1630 39th Street
Boulder, CO 80301
303.442.4338

VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
STORM SEWER
PLAN & PROFILE - 2

SCALE: 1" = 20'
SHEET NUMBER

C6.2



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1800 38th Street
Boulder, CO 80301
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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
DETAILS
(1 OF 7)

SCALE: N/A
SHEET NUMBER

C7.0

STANDARD 6"

OUTFALL/MEDIAN

DOWELLED BARRIER CURB

MOUNTABLE CURB
(NOTE: FOR USE ONLY IN DETACHED SINGLE-FAMILY RESIDENTIAL STREETS)

NOTES:
1. ALL EXPOSED CONCRETE SHALL HAVE A BROOM FINISH.
2. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS SEE EXPANSION JOINT DETAIL.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT END OF CURB RETURNS AND AT 10 FOOT MAXIMUM INTERVALS - SEE CURB CONTRACTION JOINT DETAIL.
4. WHEN JOINING EXISTING CURB, PROVIDE A MINIMUM OF THREE #4 x 18" DOWELS (9" EMBEDMENT) EVENLY SPACED.
* 5. WHEN PLACING CURB ADJACENT TO CONCRETE PAVEMENT, THICKEN GUTTER TO MATCH PAVEMENT DEPTH.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
CURB AND GUTTER

ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.01.A

CURB CONTRACTION JOINT

CURB EXPANSION JOINT

NOTES:
1. ALL EXPOSED CONCRETE SHALL HAVE A BROOM FINISH.
2. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS AND AT FIXED STRUCTURES (INLETS, BUILDINGS). SEE CONCRETE WALK AND MULTI-USE PATH JOINT DETAILS.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT 5 FOOT INTERVALS OR INTERVALS EQUAL TO SIDEWALK WIDTH. SEE CONCRETE WALK AND MULTI-USE PATH JOINT DETAILS.
4. IF SIDEWALK IS PLACED ADJACENT TO CURB AND GUTTER, CONTRACTION JOINTS SHALL LINE UP WITH CURB AND GUTTER JOINTS.
5. LONGITUDINAL JOINTS ARE NOT ALLOWED IN CONCRETE WALK OR MULTI-USE PATH.

DRAWN BY: JSH
CHECKED BY: WGH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
CURB AND GUTTER JOINTS

ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.01.B

CONCRETE WALK AND MULTI-USE PATHS

NOTES:
1. ALL EXPOSED CONCRETE SHALL HAVE A BROOM FINISH.
2. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS AND AT FIXED STRUCTURES (INLETS, BUILDINGS). SEE CONCRETE WALK AND MULTI-USE PATH JOINT DETAILS.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT 5 FOOT INTERVALS OR INTERVALS EQUAL TO SIDEWALK WIDTH. SEE CONCRETE WALK AND MULTI-USE PATH JOINT DETAILS.
4. IF SIDEWALK IS PLACED ADJACENT TO CURB AND GUTTER, CONTRACTION JOINTS SHALL LINE UP WITH CURB AND GUTTER JOINTS.
5. LONGITUDINAL JOINTS ARE NOT ALLOWED IN CONCRETE WALK OR MULTI-USE PATH.

DRAWN BY: JSH
CHECKED BY: WGH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
CONCRETE WALK AND MULTI-USE PATHS

ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.02.A

INTEGRAL CURBSIDE

NOTES:
1. ALL EXPOSED CONCRETE SHALL HAVE A BROOM FINISH.
2. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS. SEE CURB EXPANSION JOINT DETAIL.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT END OF CURB RETURNS AND AT 10 FOOT MAXIMUM INTERVALS - SEE CURB CONTRACTION JOINT DETAIL.
4. WHEN JOINING EXISTING CURB, PROVIDE A MINIMUM OF THREE #4 x 18" DOWELS (9" EMBEDMENT) EVENLY SPACED.
* 5. WHEN PLACING CURB ADJACENT TO CONCRETE PAVEMENT, THICKEN GUTTER TO MATCH PAVEMENT DEPTH.

DRAWN BY: JSH
CHECKED BY: WGH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
INTEGRAL CURBSIDE

ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.02.B

CONTRACTION JOINT

EXPANSION JOINT

NOTES:
1. ALL EXPOSED CONCRETE SHALL HAVE A BROOM FINISH.
2. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS AND AT FIXED STRUCTURES (INLETS, BUILDINGS). SEE CONCRETE WALK AND MULTI-USE PATH JOINT DETAILS.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT 5 FOOT INTERVALS OR INTERVALS EQUAL TO SIDEWALK WIDTH. SEE CONCRETE WALK AND MULTI-USE PATH JOINT DETAILS.
4. IF SIDEWALK IS PLACED ADJACENT TO CURB AND GUTTER, CONTRACTION JOINTS SHALL LINE UP WITH CURB AND GUTTER JOINTS.
5. LONGITUDINAL JOINTS ARE NOT ALLOWED IN CONCRETE WALK OR MULTI-USE PATH.

DRAWN BY: JSH
CHECKED BY: WGH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
CONCRETE WALK AND MULTI-USE PATH JOINTS

ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.02.C

MULTI-USE PATH SECTION DETAIL

NOTES:
1. ALL EXPOSED CONCRETE SHALL HAVE A BROOM FINISH.
2. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS AND AT FIXED STRUCTURES (INLETS, BUILDINGS). SEE CONCRETE WALK AND MULTI-USE PATH JOINT DETAILS.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT 5 FOOT INTERVALS OR INTERVALS EQUAL TO SIDEWALK WIDTH. SEE CONCRETE WALK AND MULTI-USE PATH JOINT DETAILS.
4. IF SIDEWALK IS PLACED ADJACENT TO CURB AND GUTTER, CONTRACTION JOINTS SHALL LINE UP WITH CURB AND GUTTER JOINTS.
5. LONGITUDINAL JOINTS ARE NOT ALLOWED IN CONCRETE WALK OR MULTI-USE PATH.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
MULTI-USE PATH SECTION DETAIL

ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.02.D

CROSSSPAN AND RADII CURBSIDE

NOTES:
1. THE LONGITUDINAL GRADE ALONG THE FLOWLINE OF THE CURB RETURN SHALL BE 0.50% MINIMUM.
2. WHEN CONSTRUCTING DIFFERENT WIDTH STREETS, REINFORCING STEEL LENGTHS WILL CHANGE ACCORDINGLY BUT THE PATTERN WILL REMAIN THE SAME.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
CROSSSPAN AND RADII CURBSIDE

ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 2.03

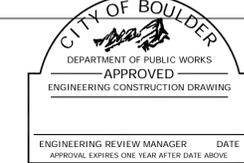
ATTACHED SIDEWALK CURBSIDE RAMP OPTIONS

NOTES:
1. ALL EXPOSED CONCRETE SHALL HAVE A BROOM FINISH.
2. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS. SEE CURB EXPANSION JOINT DETAIL.
3. CONTRACTION JOINTS SHALL BE INSTALLED AT END OF CURB RETURNS AND AT 10 FOOT MAXIMUM INTERVALS - SEE CURB CONTRACTION JOINT DETAIL.
4. WHEN JOINING EXISTING CURB, PROVIDE A MINIMUM OF THREE #4 x 18" DOWELS (9" EMBEDMENT) EVENLY SPACED.
* 5. WHEN PLACING CURB ADJACENT TO CONCRETE PAVEMENT, THICKEN GUTTER TO MATCH PAVEMENT DEPTH.

DRAWN BY: PLS
CHECKED BY: MJS
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ATTACHED SIDEWALK CURBSIDE RAMP OPTIONS

ISSUED: OCT 6, 2009
REVISED:
DRAWING NO. 2.07



CITY OF BOULDER
DEPARTMENT OF PUBLIC WORKS
RECOMMENDATION FOR APPROVAL

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DREXEL, BARRELL & CO.
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303.442.4338

VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

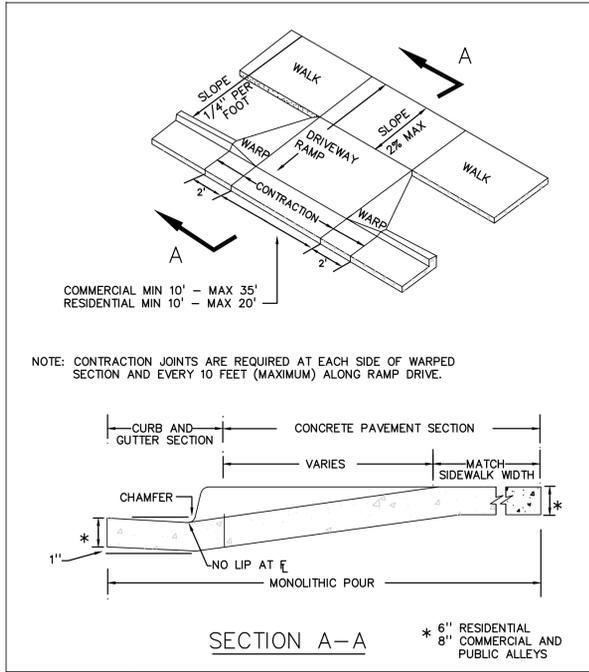
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
DETAILS
(2 OF 7)

SCALE: N/A
SHEET NUMBER

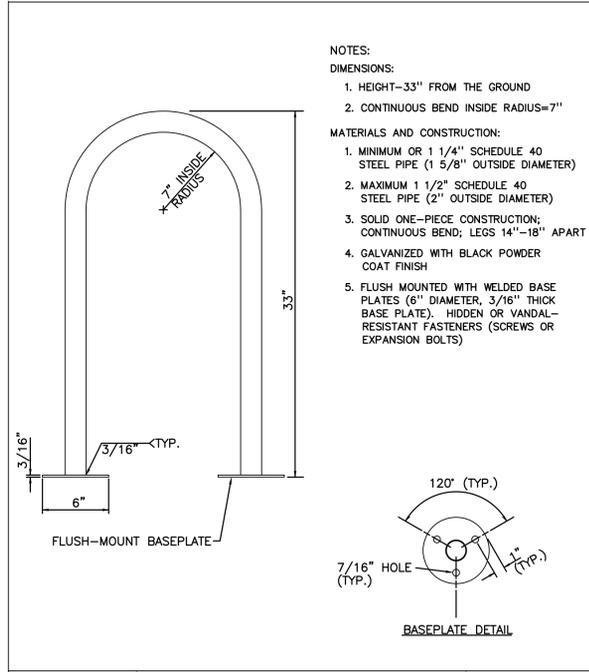
C7.1



DRAWN BY: JSH
CHECKED BY: WGH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
DRIVEWAY RAMP
DETACHED WALK

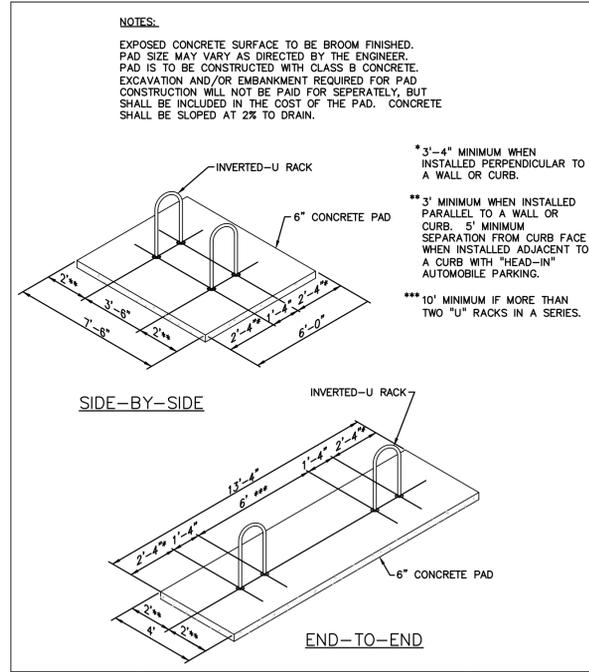
ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.21



DRAWN BY: JSH
CHECKED BY: R.JH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
INVERTED "U"
BICYCLE RACKS

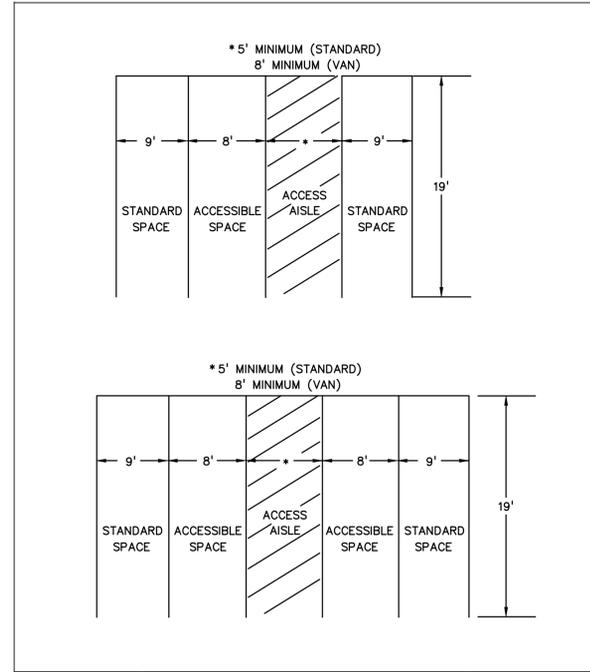
ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.52.A



DRAWN BY: JSH
CHECKED BY: R.JH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
INVERTED "U"
BICYCLE RACKS

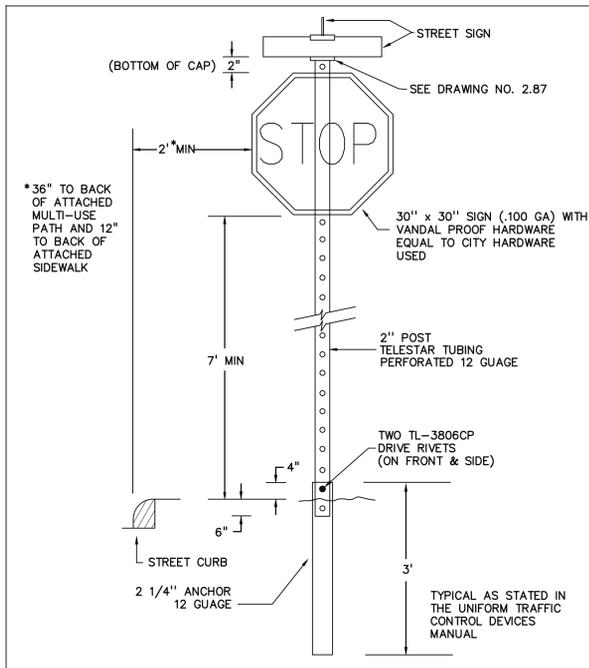
ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.52.B



DRAWN BY: JSH
CHECKED BY: MGS
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ACCESSIBLE
PARKING STALL

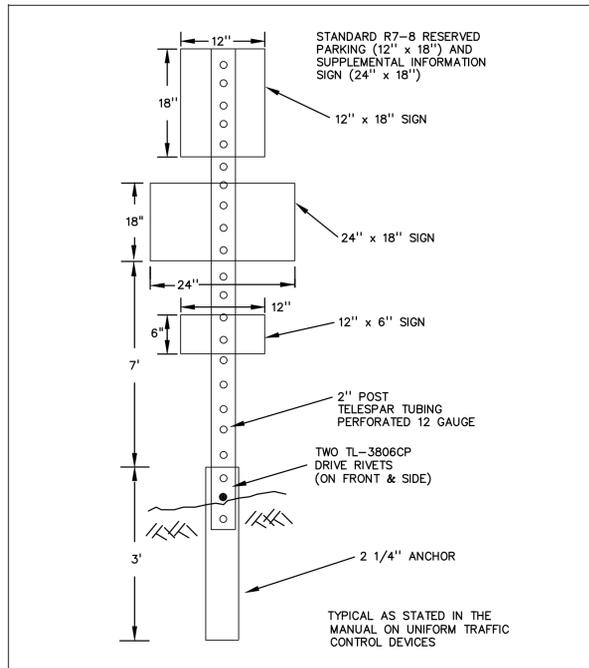
ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.54



DRAWN BY: JSH
CHECKED BY: MGS
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
SIGN INSTALLATION
DETAILS

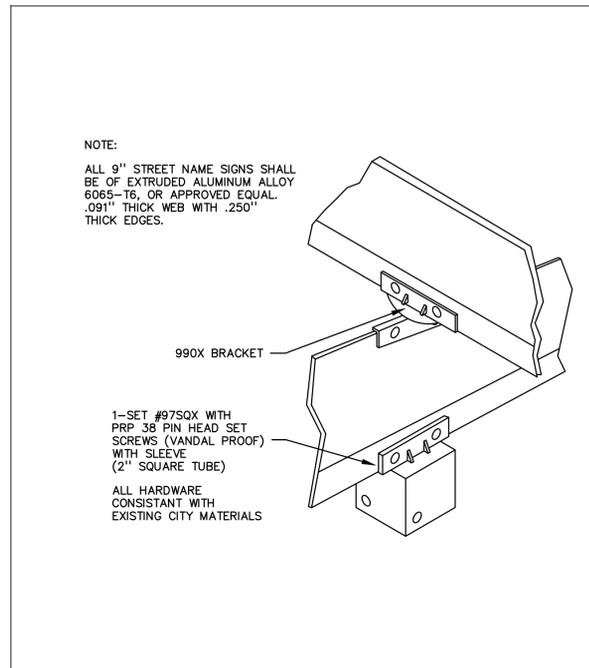
ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.81



DRAWN BY: JSH
CHECKED BY: MGS
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ACCESSIBLE
PARKING
SIGN DETAILS

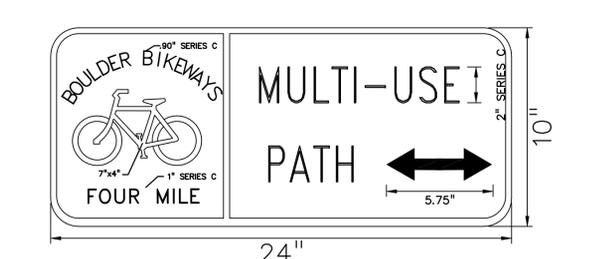
ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.86



DRAWN BY: JSH
CHECKED BY: MGS
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
STREET NAME
SIGN MOUNTING
DETAILS

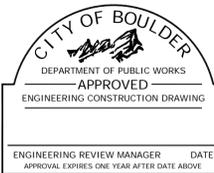
ISSUED: JULY 2, 1998
REVISED: OCT 6, 2009
DRAWING NO. 2.87



ALL BORDERS ARE WHITE.
ALL TEXT AND LEGENDS ARE WHITE.
BOULDER BIKEWAY BOX IS BLUE.
BIKE LANE BOX IS GREEN.
NOT TO SCALE.

MULTI USE PATH SIGN
NTS

SIGNAGE NOTES:
1. CONTACT THE CITY OF BOULDER SIGN SHOP (303-413-7122) FOR LOCATION OF ALL SIGNS PRIOR TO INSTALLATION AND FOR SIGN LAYOUT/DETAILS PRIOR TO ORDERING.
2. ALL SIGN SHEETING TO BE CLASS XI (DG3 MATERIAL) 3-M.
3. ALL SIGNS SHALL BE 0.100 GAUGE ALUMINUM.
4. ALL SIGN POSTS TO BE 12 GAUGE 2 INCH UNISTRUT.
5. ALL SIGN BASES TO BE 12 GAUGE 2-1/4 INCH UNISTRUT.
6. SIGN POST LENGTHS WILL VARY, BUT 7 FOOT MINIMUM CLEARANCE FROM BOTTOM OF SIGN TO GROUND LEVEL IS REQUIRED.
7. ALL SIGN MOUNT HARDWARE TO BE GATOR LOCK SYSTEM.



CITY OF BOULDER
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RECOMMENDATION FOR APPROVAL
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1800 38th Street
Boulder, CO 80301
303.442.4338

VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

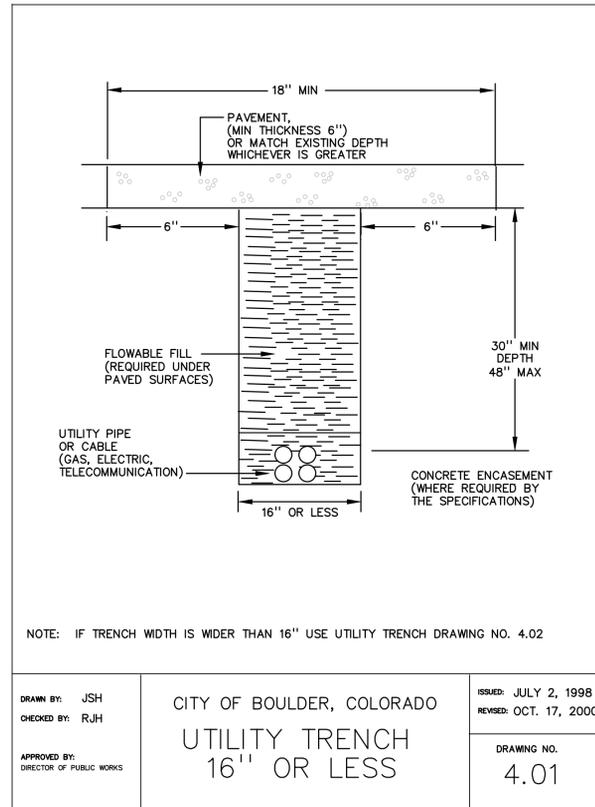
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
DETAILS
(3 OF 7)

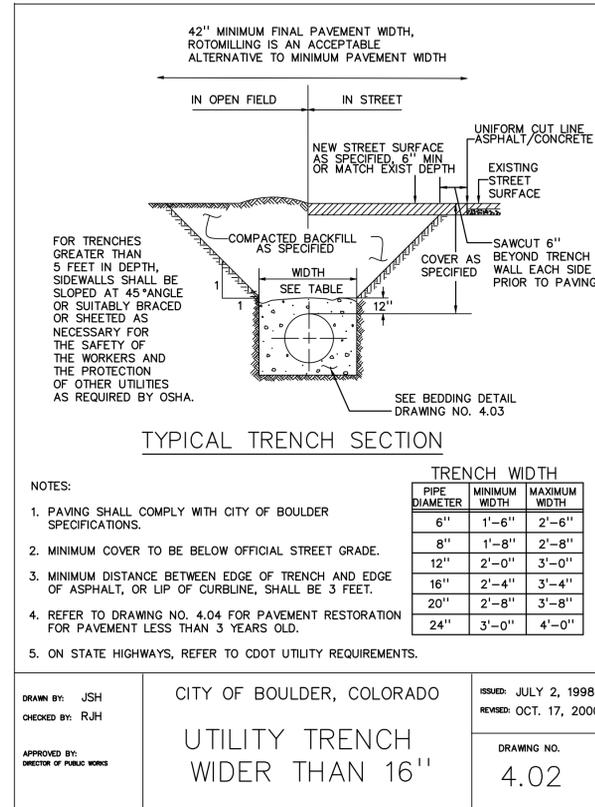
SCALE: N/A
SHEET NUMBER

C7.2



NOTE: IF TRENCH WIDTH IS WIDER THAN 16" USE UTILITY TRENCH DRAWING NO. 4.02

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS
CITY OF BOULDER, COLORADO
UTILITY TRENCH
16" OR LESS
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 4.01

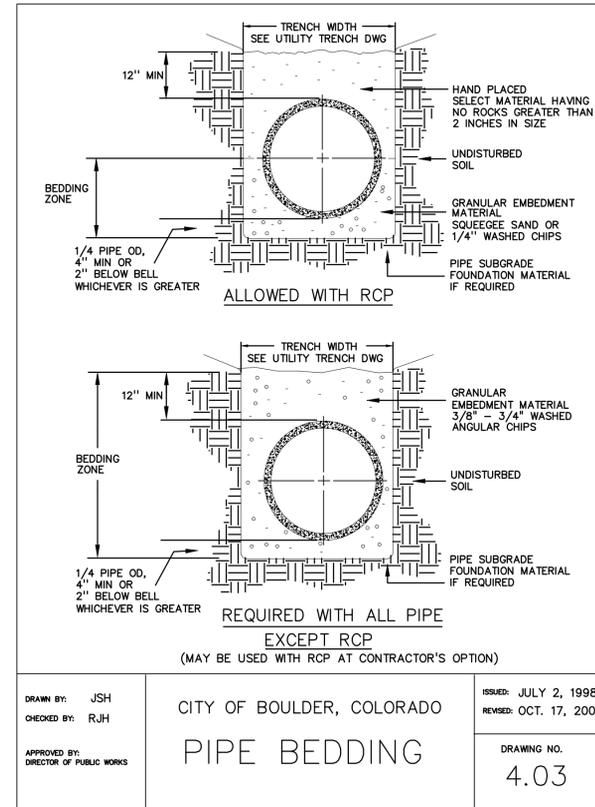


NOTES:

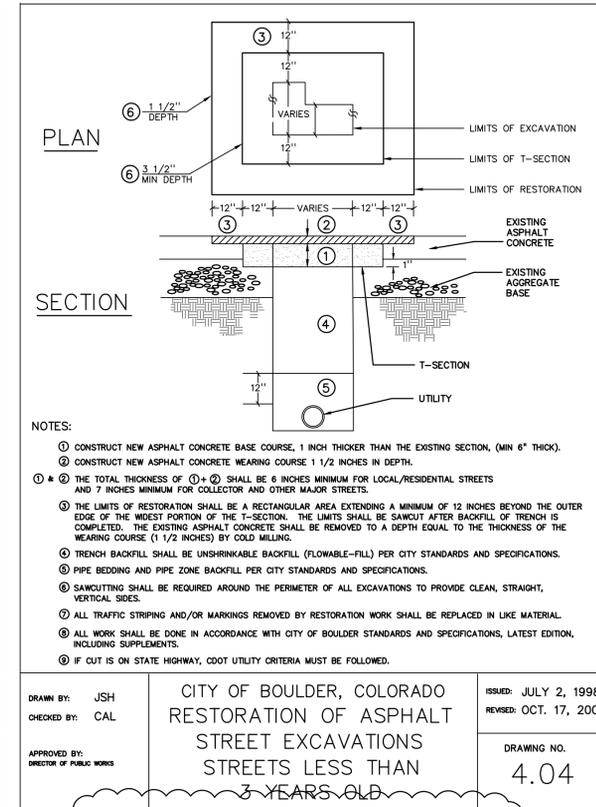
- PAVING SHALL COMPLY WITH CITY OF BOULDER SPECIFICATIONS.
- MINIMUM COVER TO BE BELOW OFFICIAL STREET GRADE.
- MINIMUM DISTANCE BETWEEN EDGE OF TRENCH AND EDGE OF ASPHALT, OR LIP OF CURBLINE, SHALL BE 3 FEET.
- REFER TO DRAWING NO. 4.04 FOR PAVEMENT RESTORATION FOR PAVEMENT LESS THAN 3 YEARS OLD.
- ON STATE HIGHWAYS, REFER TO CDOT UTILITY REQUIREMENTS.

PIPE DIAMETER	TRENCH WIDTH	
	MINIMUM WIDTH	MAXIMUM WIDTH
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-8"	3'-8"
24"	3'-0"	4'-0"

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS
CITY OF BOULDER, COLORADO
UTILITY TRENCH
WIDER THAN 16"
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 4.02

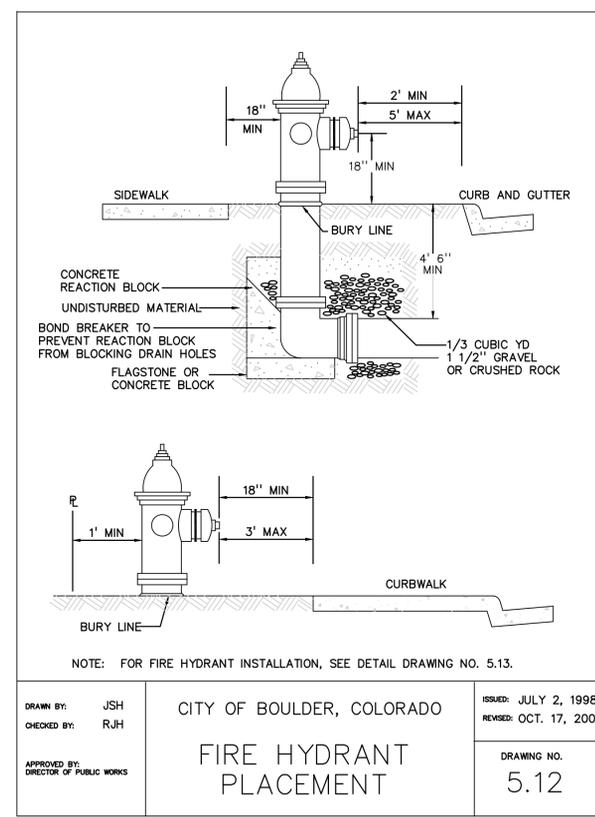


DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS
CITY OF BOULDER, COLORADO
PIPE BEDDING
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 4.03

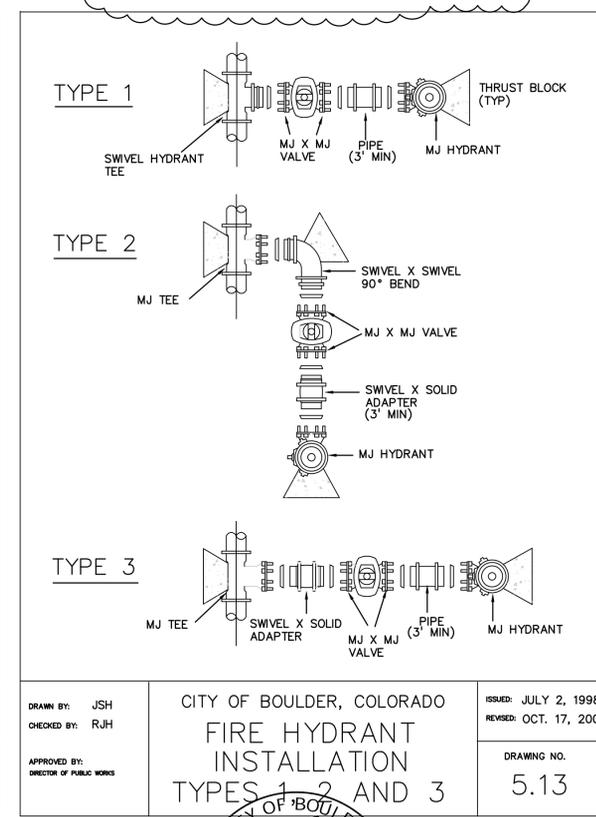


DRAWN BY: JSH
CHECKED BY: CAL
APPROVED BY: DIRECTOR OF PUBLIC WORKS
CITY OF BOULDER, COLORADO
RESTORATION OF ASPHALT STREET EXCAVATIONS
STREETS LESS THAN 3 YEARS OLD
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 4.04

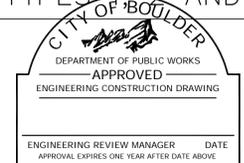
USE FOR PATCHES ON BROADWAY AND VIOLET



DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS
CITY OF BOULDER, COLORADO
FIRE HYDRANT PLACEMENT
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 5.12



DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS
CITY OF BOULDER, COLORADO
FIRE HYDRANT INSTALLATION
TYPES 1, 2 AND 3
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 5.13



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TRANSPORTATION _____
DRAINAGE _____



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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
DETAILS
(4 OF 7)

SCALE: N/A
SHEET NUMBER
C7.3

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HORIZONTAL THRUST BLOCK

MINIMUM BEARING SURFACE AREA IN SQUARE FEET

SIZE	TEE AND PLUG	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	2.0	2.5	1.5	1.0	1.0
6"	4.0	5.5	3.0	1.5	1.0
8"	6.5	9.0	5.0	2.5	1.5
10"	10.0	14.0	7.5	4.0	2.0
12"	14.0	20.0	11.0	5.5	3.0
14"	19.0	27.0	14.5	7.5	4.0
16"	25.0	35.0	19.0	10.0	5.0
18"	31.5	44.5	24.0	12.5	6.5
20"	38.0	54.5	29.5	15.0	7.5
24"	55.5	78.5	42.5	22.0	11.0

NOTES:
1. BASED ON 250 PSI MAXIMUM PRESSURE AND 2000 LBS/FT² BEARING CAPACITY.
2. ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO BOLTS OR PIPES.
3. MAXIMUM JOINT DEFLECTION WITHOUT REACTION BLOCK IS 1 1/2".
4. CONCRETE SHALL DEVELOP 3,000 PSI AT 28 DAYS.
5. JOINTS AND BOLTS SHALL BE ACCESSIBLE FOR REPAIRS.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 5.14

VERTICAL THRUST BLOCK

REQUIRED CUBIC YARDS OF CONCRETE *

SIZE	11 1/4° BEND	22 1/2° BEND	45° BEND
6"	0.2	0.3	0.9
8"	0.4	0.7	2.1
10"	0.6	1.3	3.6
12"	1.0	1.9	5.6
14"	1.4	2.7	8.1
16"	1.9	3.8	11.1
18"	2.4	4.9	14.4
20"	3.1	6.2	18.3
24"	3.8	7.6	22.6
24"	5.5	10.7	32.5

* BASED ON 250 PSI MAXIMUM PRESSURE WITH NO SOIL BEARING PRESSURE

NOTES:
1. ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO BOLTS OR PIPE.
2. ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO BOLTS OR PIPE.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 5.15

STANDARD 1 1/2" - 2" SERVICE

NOTES:
1. SHOULD ANY SITUATION ARISE OTHER THAN SHOWN CONCERNING THE DEPTH OR OBSTRUCTION OF SERVICE LINE OR PLACEMENT OF METER PIT, CALL CITY OF BOULDER ROW INSPECTOR.
2. METER TO BE PLACED IN PUBLIC ROW OR EASEMENT. DO NOT PLACE IN SIDEWALK OR DRIVE.
3. PLACEMENT OF METER PIT SHALL BE 3' FROM CENTERLINE OF LID TO BACK EDGE OF CURB OR SIDEWALK IF SEPARATE FROM CURB. METER PIT SHALL BE INSTALLED ON STREET SIDE OF WALK 3' FROM FRONT SIDE OF WALK.
4. METER, METER PIT FITTINGS, AND LID WITH 36" FLANGE FITTINGS SHALL BE PURCHASED FROM THE CITY OF BOULDER.
5. METER SHALL BE INSTALLED BY THE CITY.
6. CORPORATION STOP AND DOUBLE STRAP BRONZE SERVICE SADDLE REQUIRED FOR PVC WATER MAINS.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 5.17A

STANDARD METER PIT 1 1/2" - 2" SERVICE

NOTE: PRECAST CONCRETE STRUCTURES SHALL MEET ASTM C-478.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 5.17B

STANDARD SEWER MANHOLE

NOTES:
1. 4' MANHOLES SHALL BE USED FOR PIPES UP TO 24" DIAMETER.
2. 5' MANHOLES SHALL BE USED FOR PIPES FROM 27"-36" DIAMETER.
3. SPECIAL MANHOLES SHALL BE USED FOR PIPES LARGER THAN 36" DIAMETER.
4. MANHOLES LESS THAN OR EQUAL TO 6' FROM TOP OF CASTING TO INVERT SHALL HAVE FLAT TOPS WITH CONCENTRIC OPENING. ALL ADJUSTING RINGS, CASTINGS, INVERTS, BOTTOMS, ETC. SHALL BE SIMILAR TO SHOWN MANHOLE.
5. REFER TO SPECIFICATIONS FOR MATERIAL, INSTALLATION, TESTING, BACKFILL AND SURFACE RESTORATION REQUIREMENTS.
6. ECCENTRIC CONES WILL BE ALLOWED IF OPENING IS SET OVER CHANNEL AND STEPS ARE OFFSET TO BENCH INSTEAD OF DIRECTLY OVER CHANNEL.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 6.01

MANHOLE INVERT

NOTES:
1. TOE POCKETS ARE REQUIRED IN STORM SEWER MANHOLES IF TOP OF BENCH IS MORE THAN 16" ABOVE INVERT. TOE POCKETS ARE NOT REQUIRED IN SANITARY SEWER MANHOLES UNLESS OTHERWISE SPECIFIED.
2. COVER EMBEDDED PORTION OF ALUMINUM STEP WITH COAL TAR ENAMEL PRIOR TO EMBEDDING IN CONCRETE.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 6.03

STANDARD EXTRUDED ALUMINUM MANHOLE STEP

NOTES:
1. ALUMINUM ALLOY SPECIFICATIONS:
A. FED. SPEC. QQ-A200/B (ALUMINUM-MAGNESIUM-SILICATE ALLOY, ASTM-B221)
B. MINIMUM TENSILE STRENGTH = 38,000 PSI
C. MINIMUM YIELD STRENGTH = 35,000 PSI
D. MINIMUM ELONGATION = 10% IN 2 INCHES
2. MINIMUM LOAD CAPACITY (APPLIED AT CENTER OF STEP) 1000 POUNDS PER STEP.
3. WEIGHT PER STEP = 2.23 POUNDS.
4. STEPS TO BE CAST, UNALTERED, IN MANHOLE WALL IN A STRAIGHT LINE, VERTICALLY, AT SAME TIME THE BARREL OR CONE SECTIONS ARE CAST.
5. TOE POCKETS ARE REQUIRED IN STORM SEWER MANHOLES IF TOP OF BENCH IS MORE THAN 16" ABOVE INVERT. TOE POCKETS ARE NOT REQUIRED IN SANITARY SEWER MANHOLES UNLESS OTHERWISE SPECIFIED.
6. COVER EMBEDDED PORTION OF ALUMINUM STEP WITH COAL TAR ENAMEL PRIOR TO EMBEDDING IN CONCRETE.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

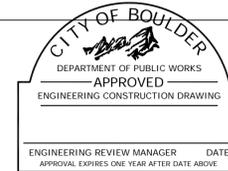
CITY OF BOULDER, COLORADO
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 6.05A

SEWER SERVICE LINE

NOTES:
1. ALL SERVICE LINES SHALL BE 4" MINIMUM IN DIAMETER.
2. THE MINIMUM SLOPE FOR 4" OR 6" SERVICE LINES SHALL BE 1/4" PER FOOT.
3. BEDDING FOR HOUSE CONNECTION WITHIN CITY ROW SHALL BE THE SAME AS FOR SEWER MAIN, LAID TO A MINIMUM DEPTH OF 4" BELOW THE PIPE INVERT AND 4" ABOVE THE TOP OF THE PIPE.
4. ALL TAPS ARE TO BE MADE BY THE CITY OF BOULDER, UNLESS OTHERWISE AUTHORIZED BY THE UTILITY DIVISION.
5. SERVICE LINES LARGER THAN 6" MUST BE CONNECTED TO THE MAIN AT A MANHOLE.
6. SERVICE LINE WILL BE PLUGGED AT THE PROPERTY LINE WITH APPROPRIATE PLUG FOR TYPE OF LINE INSTALLED UNTIL CONNECTED TO BUILDING. AFTER ABANDONMENT OF A SERVICE LINE IT MUST BE PLUGGED 5' INSIDE THE PROPERTY LINE.
7. COMPACTION OF BACKFILL SHALL BE AS STATED IN THE CITY OF BOULDER, STANDARD SPECIFICATIONS.

DRAWN BY: JSH
CHECKED BY: RJH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 6.06



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____



1530 15th Street
Denver, Colorado 80202
phone 303.449.8900

OUTSIDE L.A., LLC
2623 Burgess Creek Road
Steamboat Springs, CO 80487
303.444.9829
DREXEL, BARRELL & CO.
1800 38th Street
Boulder, CO 80301
303.442.4338

VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
DETAILS
(5 OF 7)

SCALE: N/A
SHEET NUMBER
C7.4

REQUIRED MANHOLE SIZES

LARGEST PIPE ID	REQ'D MH ID	CONE REQUIRED
≤ 24"	48"	4'x2' ECCENTRIC CONE
27" - 36"	60"	5'x2' ECCENTRIC CONE
42" - 48"	72"	6'x2' REDUCER AND 5'x2' ECCENTRIC CONE
54" & LARGER	SPECIAL DETAIL	

DRAWN BY: JSH
CHECKED BY: R/JH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
STORM SEWER MANHOLE

ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 7.01

TOE POCKET DETAILS

NOTES:
1. SHAPING FOR SMOOTH MANHOLE INVERTS MAY BE DONE BY FORMING OR SHAPING WITH CEMENT MORTAR.
2. THE MANHOLE STEPS SHALL BE ALUMINUM OR POLYPROPYLENE, SEE DETAIL DRAWING NO. 6.05A OR 6.05B
3. PRECAST SECTION TO CONFORM TO ASTM C-478.
4. STUB OUTS SHALL EXTEND 2 FEET MINIMUM PAST MANHOLE OUTSIDE DIAMETER AND BE SATISFACTORILY PLUGGED.
5. MANHOLE BASE SHALL BE CONSTRUCTED USING 6000 PSI CONCRETE

DRAWN BY: JSH
CHECKED BY: R/JH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
STORM SEWER MANHOLE BASE

ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 7.02

TYPICAL PLAN VIEW

SECTION A-A REGULAR INLET

SECTION B-B TYPICAL END VIEW

DRAWN BY: CSM
CHECKED BY: R/JH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
TYPE R CURB INLET

ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 7.08A

SECTION B-B TYPICAL END VIEW

SECTION A-A INLET WITH DROP BOX ΔH>5'

DRAWN BY: CSM
CHECKED BY: R/JH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
TYPE R CURB INLET

ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 7.08B

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

MARK	DIA IN.	O.C.	ALL INLETS			INLETS, H=5'				
			INLET TYPE	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	
401	12"	15"	15	6"	21	6"	11	6"	11	6"
402	12"	7"	7	6"	13	6"	18	6"	7	6"
403	9"	8"	8	4"	10	4"	14	4"	7	4"

TABLE TWO Δ BARS AND QUANTITIES VARIABLE WITH "H"

MARK	DIA IN.	O.C.	REGULAR INLETS			DROP BOX INLETS				
			INLET TYPE	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	
501	12"	15"	15	6"	21	6"	11	6"	11	6"
502	12"	7"	7	6"	13	6"	18	6"	7	6"
503	9"	8"	8	4"	10	4"	14	4"	7	4"

BAR BENDING DIAGRAMS Δ (Dimensions are Out-to-Out of bar)

DRAWN BY: CSM
CHECKED BY: R/JH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
TYPE R CURB INLET

ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 7.08C

TYPICAL MANHOLE COVER

TYPICAL MANHOLE RING

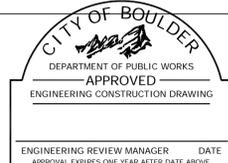
CHANNEL LAYOUT DETAILS

WEIGHTS:
COVER = 125 LBS.
RING = 135 LBS.
TOTAL = 260 LBS.

DRAWN BY: CSM
CHECKED BY: R/JH
APPROVED BY: DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
TYPE R CURB INLET

ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000
DRAWING NO. 7.08D



CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____

ENGINEERING REVIEW MANAGER DATE
APPROVAL EXPIRES ONE YEAR AFTER DATE ABOVE



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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

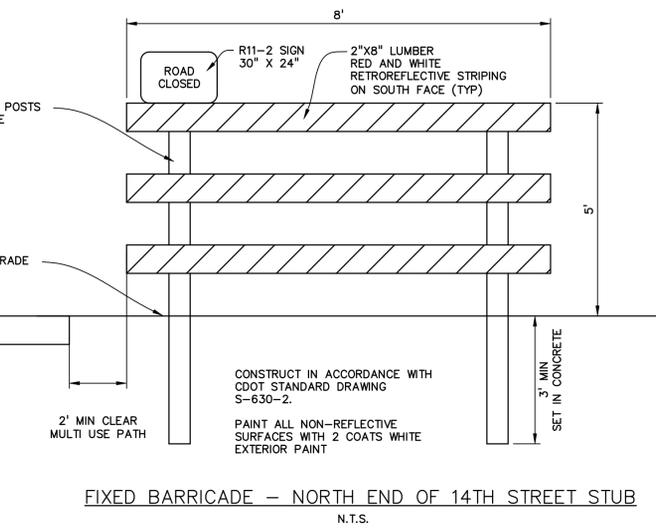
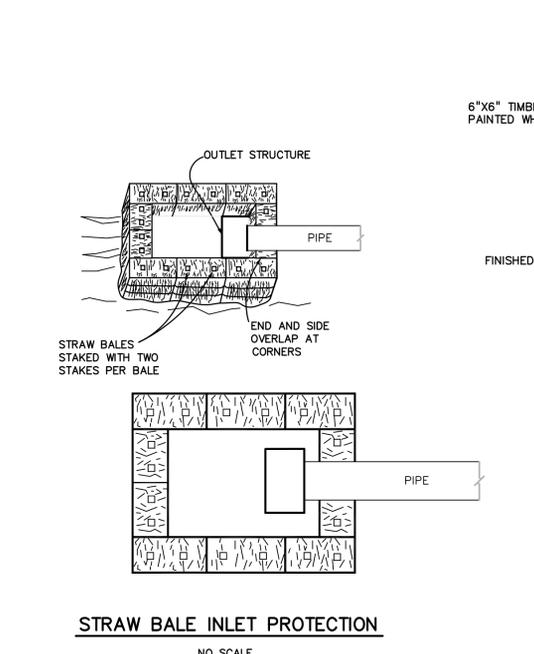
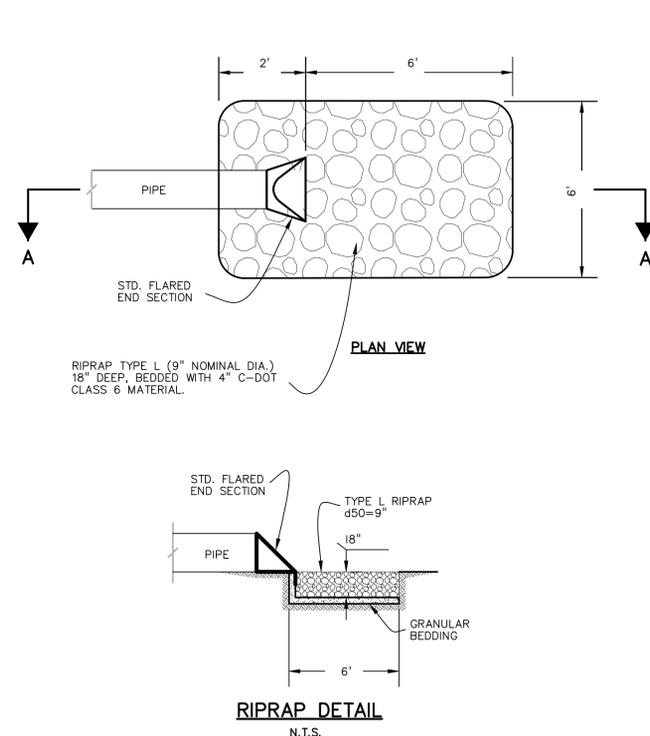
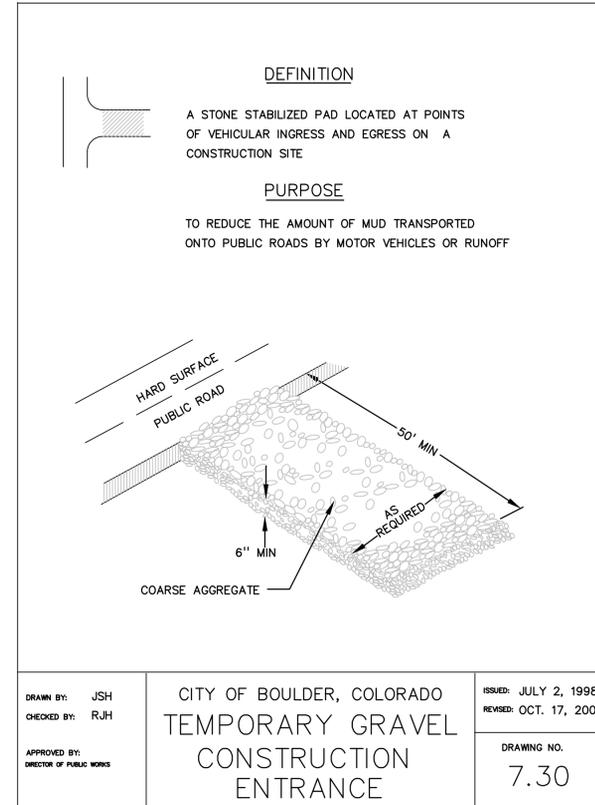
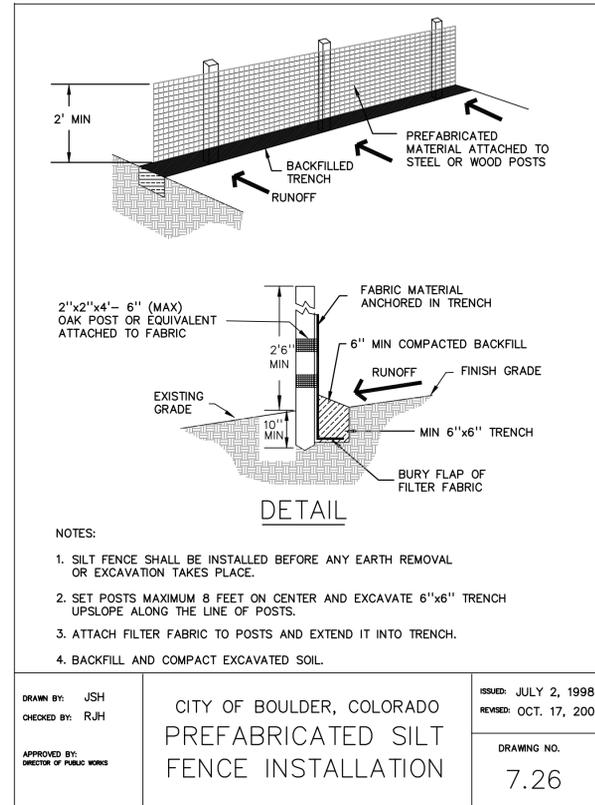
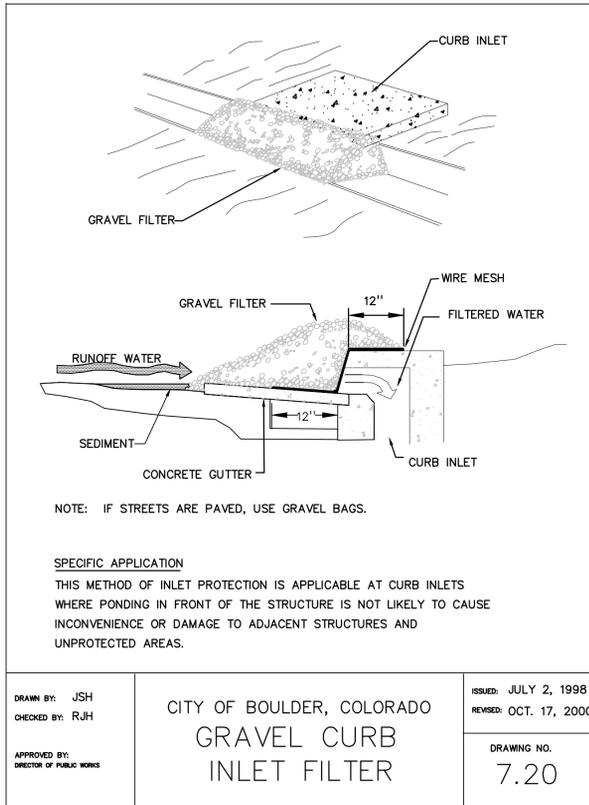
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VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050

SHEET TITLE:
DETAILS
(6 OF 7)

SCALE: N/A
SHEET NUMBER

C7.5



CITY OF BOULDER
DEPARTMENT OF PUBLIC WORKS
APPROVED
ENGINEERING CONSTRUCTION DRAWING

ENGINEERING REVIEW MANAGER DATE
APPROVAL EXPIRES ONE YEAR AFTER DATE ABOVE

CITY OF BOULDER
PUBLIC WORKS DEPARTMENT
RECOMMENDATION FOR APPROVAL

WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____



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VIOLET CROSSING TECH DOCS
NORTH BROADWAY AT VIOLET AVENUE
BOULDER, CO, 80304

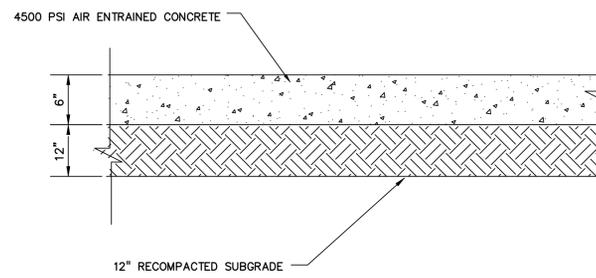
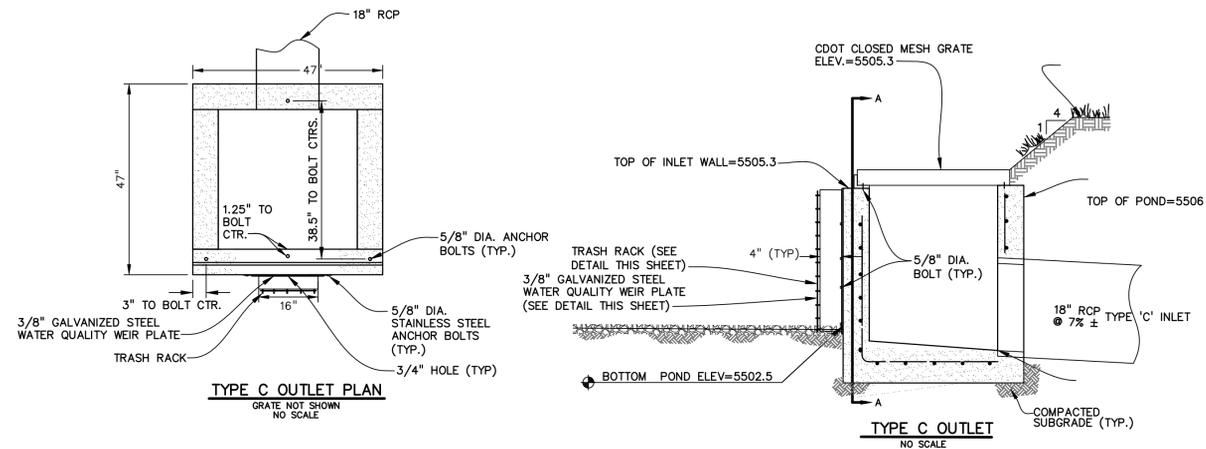
PROJ. NO. 16011.02
DRAWN: TLT
CHECKED: MAA
APPROVED: JAB
DATE: APRIL 4, 2011
REVISIONS

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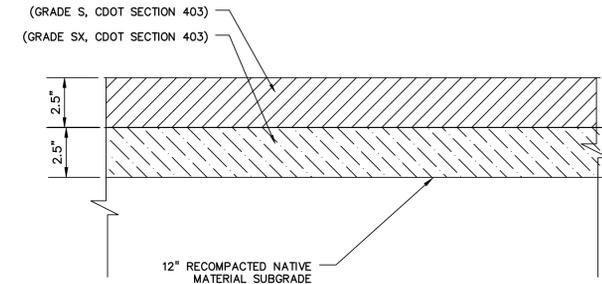
VIOLET CROSSING TECH DOCS
ISSUED FOR:
TECH DOCS SUBMITTAL
CASE NO. LUR2010-00048
& LUR2010-00050
SHEET TITLE:
DETAILS
(7 OF 7)

SCALE: N/A
SHEET NUMBER

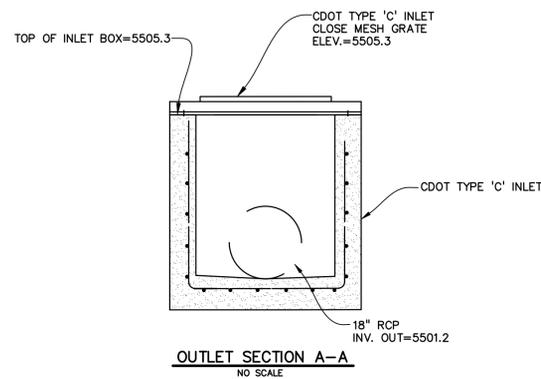
C7.6



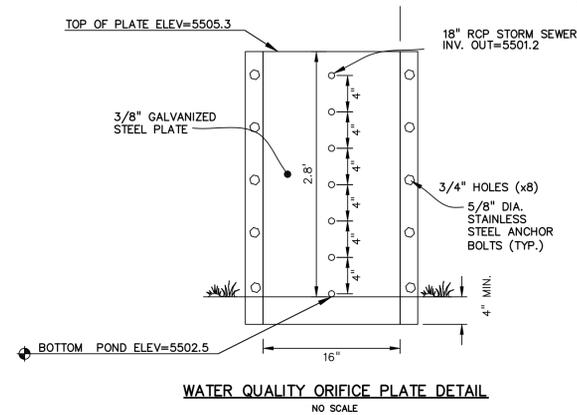
CONCRETE PAVEMENT SECTION (SITE DRIVES AND BROADWAY PARKING)
N.T.S.



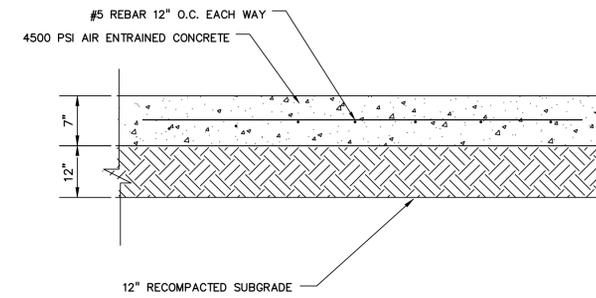
PARKING SPACE BITUMINOUS PAVEMENT SECTION
N.T.S.



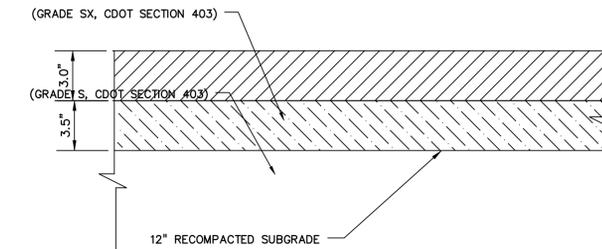
OUTLET SECTION A-A
NO SCALE



WATER QUALITY ORIFICE PLATE DETAIL
NO SCALE

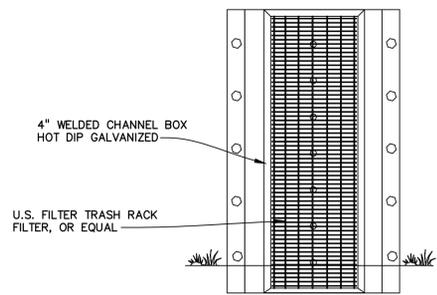


CONCRETE PAVEMENT SECTION (TRASH PAD AND APPROACH)
N.T.S.

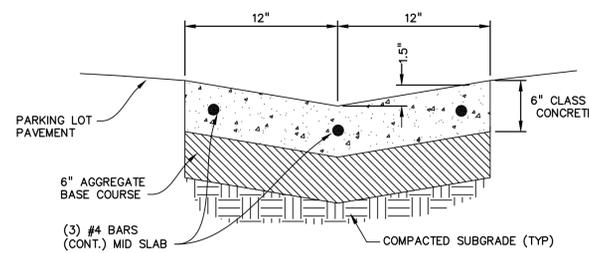


14TH STREET/DRIVE AISLE BITUMINOUS PAVEMENT SECTION
N.T.S.

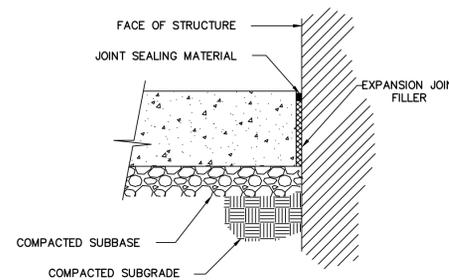
PAVEMENT SECTION NOTES:
SECTION THICKNESS SHOWN PER SOILS REPORT RECOMMENDATION.
IN AREAS OF UNSTABLE SUBGRADE, ADDITIONAL PAVEMENT SECTION THICKNESS MAY BE REQUIRED AS DETERMINED BY THE GEOTECHNICAL ENGINEER.



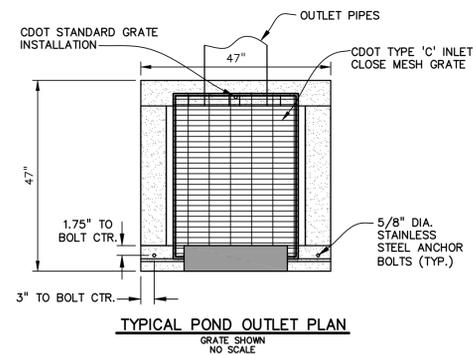
TYPICAL TRASH RACK DETAIL
NO SCALE
INSTALL PER URBAN DRAINAGE BMP CRITERIA



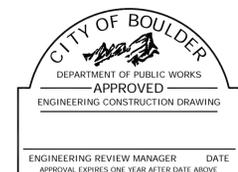
2' WIDE CONCRETE TRICKLE CHANNEL
N.T.S.



CONCRETE PAVEMENT
TYPICAL ISOLATION JOINT (I.J.)
N.T.S.



TYPICAL POND OUTLET PLAN
GRATE SHOWN
NO SCALE



CITY OF BOULDER
DEPARTMENT OF PUBLIC WORKS
RECOMMENDATION FOR APPROVAL
WATER/SEWER _____
TRANSPORTATION _____
DRAINAGE _____