NOTES:
1. THE BOLT SHALL BE MANUFACTURED OF "QUIP-TITE" OR APPROVED EQUIVALENT.
2. THE BOLT SHALL BE STAR PRODUCTS "SUPER STRONG" OR EQUIVALENT.
3. SEE DETAIL DRAWING NO. 5.10 FOR LENGTHS OF RED PIPE.

DIMENSIONS:

<table>
<thead>
<tr>
<th>ALLOWABLE</th>
<th>NO. OF BOLTS</th>
<th>BOLT SIZE</th>
<th>NO. OF BOLTS</th>
<th>BOLT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>2</td>
<td>3/4&quot;</td>
<td>2</td>
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<tr>
<td>8</td>
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<td>3/4&quot;</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>3/4&quot;</td>
<td>4</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

NOTE:
1. OPERATING NUT SHALL BE EXTENDED WITHIN 6 FEET OF SURFACE.
2. EXTENSION STANCHION WHERE VALVE IS AT DEPTH GREATER THAN 3 FEET.

CITY OF BOULDER, COLORADO
BURIED DUCTILE IRON PIPE JOINT RESTRAINT FOR 12" & SMALLER PIPE

CITY OF BOULDER, COLORADO
VALVE BOX

CITY OF BOULDER, COLORADO
FIRE HYDRANT PLACEMENT

CITY OF BOULDER, COLORADO
HORIZONTAL THRUST BLOCK

CITY OF BOULDER, COLORADO
VERTICAL THRUST BLOCK
GENERAL LANDSCAPE NOTES

1. ALL WORK SHALL CONFORM TO THE CITY OF BOULDER CODES. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, LINES AND STRUCTURES PRIOR TO EXCAVATION OR TRENCHING. DAMAGE TO THESE UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER, OWNER'S REPRESENTATIVE, OR LANDSCAPE ARCHITECT.

2. PLANT QUANTITIES TO BE BASED ON CONTRACTOR'S ESTIMATE ACCORDING TO PLANS, WHICH ARE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT OR OWNER.

3. GRAPHIC SYMBOLS PRESS OVER WRITTEN PLANT QUANTITIES.

5. PLANT SUBSTITUTIONS WILL NOT BE PERMITTED WITHOUT APPROVAL BY THE OWNER, OWNER'S REPRESENTATIVE, OR LANDSCAPE ARCHITECT.

6. WINTER PROTECTION AND WATERING OF TREES SHALL BE PROVIDED WHEN NECESSARY TO MAINTAIN THE HEALTH AND

7. WOOD MULCH TO BE SHREDDED BARK MULCH TO A DEPTH OF 3 INCHES MINIMUM WITHOUT LANDSCAPE FABRIC.

8. ROCK MULCH TO BE 1"-2" WHITE RIVER ROCK TO DEPTH OF 3 INCHES MINIMUM WITH LANDSCAPE FABRIC.

9. ALL TREE RINGS TO BE MULCHED WITH WOOD MULCH TO A DEPTH OF 4 INCHES MINIMUM WITH NO LANDSCAPE FABRIC.

10. FOR TREES IN SOD OR NATIVE GRASS, ALLOW A 3' DIAMETER BED WITHOUT SOD AROUND ROOT COLLAR. APPLY 4" DEPTH OF WOOD MULCH OVER 3' DIAMETER BED FOLLOWING SOD INSTALLATION.

12. SEED TO BE LOW GROW SEED MIX FROM ARKANSAS VALLEY SEED INC. PHONE: 877.907.3337.

13. THE CITY STANDARD DETAILS AND MANUFACTURE DETAILS DEPICTED IN THESE DRAWINGS SHOULD BE USED AS REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMIT CONSTRUCTIONS ON PLANS AND SPECIFICATIONS.


15. PLANTS SHALL BE INSTALLED IMMEDIATELY UPON DELIVERY TO SITE. IF THIS IS NOT POSSIBLE, PLANTS SHALL BE HELED IN AND WATERED TO PREVENT DEHYDRATION.

16. PLANTING PITS SHALL BE EXCAVATED TO A MINIMUM OF TWICE THE WIDTH OF THE ROOTBALL. DO NOT DISTURB SOIL AT THE ROOT COLLAR OR SMALLER PITS, RESPONSIBILITY FOR ALL CONSTRUCTION OPERATIONS TO THEIR ORIGINAL STATE AT THE ENDE.

17. LANDSCAPES TO BE KEPT FREE OF GRAZED, RAVAGED, TORN, AND DAMAGED LANDSCAPING OR MOWING NON. THE LANDSCAPE ARCHITECT OR OWNER SHALL APPROVE THE PLANNED LANDSCAPING OR MOWING NON. THE LANDSCAPE ARCHITECT OR OWNER SHALL PROVIDE THE CONTRACTOR OR SMALLER PITS, RESPONSIBILITY FOR ALL CONSTRUCTION OPERATIONS TO THEIR ORIGINAL STATE AT THE ENDE.

18. AFTER PLANT MATERIAL SHALL BE PLACED WITH THEIR ROOT COLLAR SLIGHTLY HIGHER THAN FINISH GRADE. (3" HIGHER FOR TREES.)

19. ALL LANDSCAPE SHOWN ON THESE PLANS SHALL BE MAINTAINED IN A NEAT AND ADEQUATE MANNER. REQUIRED MAINTENANCE ACTIVITIES SHALL INCLUDE, BUT NOT BE LIMITED TO TRIMMING OF HEDGES, ADEQUATE IRRIGATION, REPLACEMENT OF DEAD, DISEASED OR UNSIGHTLY LANDSCAPING, REMOVAL OF WEEDS FROM PLANTING AREAS, AND APPROPRIATE PRUNING OF PLANT MATERIAL.

20. THE CONTRACTOR SHALL CERTIFY TO THE CITY OF BOULDER ALL AUGUST CONDITIONS AND BASE HIS BID ON ACTUAL ON-SITE CONDITIONS AND MEASUREMENTS. ANY DISCREPANCIES, ERRORS OR OMISSIONS ON THE CONSTRUCTION DRAWINGS SHALL BE NOTIFIED TO THE CONTRACTOR FOR CORRECTION. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ALL CONSTRUCTION WORK AND MATERIALS TO THEIR ORIGINAL STATE AT THE ENDE.

21. THE CONTRACTOR SHALL BE KEPT INFORMED REGARDING CONSTRUCTION AND REVISIONS AS NECESSARY TO CONFORM WITH THE GENERAL LANDSCAPE NOTES.

22. THE CONTRACTOR SHALL CERTIFY TO THE CITY OF BOULDER ALL AUGUST CONDITIONS AND BASE HIS BID ON ACTUAL ON-SITE CONDITIONS AND MEASUREMENTS. ANY DISCREPANCIES, ERRORS OR OMISSIONS ON THE CONSTRUCTION DRAWINGS SHALL BE NOTIFIED TO THE CONTRACTOR FOR CORRECTION. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ALL CONSTRUCTION WORK AND MATERIALS TO THEIR ORIGINAL STATE AT THE ENDE.

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25. PLANT LIST DEPICTED IS SUBJECT TO SUBSTITUTIONS AND OMISSIONS BASED ON AVAILABILITY OF LANDSCAPE MATERIAL AND IS DEPICTED FOR INTENT PURPOSES ONLY WHICH SHALL BE FURTHER DEFINED THROUGH THE CONSTRUCTION DOCUMENTS.

27. THE CONTRACTOR SHALL CERTIFY TO THE CITY OF BOULDER ALL AUGUST CONDITIONS AND BASE HIS BID ON ACTUAL ON-SITE CONDITIONS AND MEASUREMENTS. ANY DISCREPANCIES, ERRORS OR OMISSIONS ON THE CONSTRUCTION DRAWINGS SHALL BE NOTIFIED TO THE CONTRACTOR FOR CORRECTION. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ALL CONSTRUCTION WORK AND MATERIALS TO THEIR ORIGINAL STATE AT THE ENDE.
TREE PRESERVATION, RELOCATION AND REMOVAL NOTES

1. PRIOR TO THE BEGINNING OF CONSTRUCTION, INSTALL BARRICADE FENCING AROUND ALL EXISTING TREES TO REMAIN. LOCATED FENCING AT OR OUTSIDE OF THE DRIP LINE OF THE TREES. BARRICADE FENCING SHALL BE 4' HEIGHT, ORANGE MESH FENCING ATTACHED TO 'T' POSTS.

2. FENCING SHALL BE MAINTAINED DAILY. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL OF THEIR WORKERS, SUBCONTRACTORS AND MATERIAL MEN UNDER THE PURVIEW OF THE WORK.

3. CONSTRUCTION WITHIN THE ROOT ZONE OF TREES TO REMAIN shall be restricted to agreed upon limits to regard excavation, dirt stockpiling, and materials.

4. DAMAGE TO THE MAIN TRUNKS OF TREES APPROVED SHALL RESULT IN A FINE BASED ON THE PERCENTAGE OF THE CIRCUMFERENCE AFFECTED.

5. DAMAGE TO THE MAIN TRUNKS OF TREES APPROVED SHALL RESULT IN A FINE BASED ON THE PERCENTAGE OF THE CIRCUMFERENCE AFFECTED.

6. CONCRETE TRUCK WASHOUT AREAS SHALL BE IN DESIGNATED AREAS ONLY. WASHOUT RUNOFF SHALL NOT FLOW INTO OR ACROSS ROOT ZONES OF TREES.

7. TREE PROTECTION MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND INSPECTED BY THE CITY OF BOULDER.

8. AS A GENERAL RULE, WHEN TRANSPLANTING TREES THE ROOT BALL SIDE SHOULD BE 1 FOOT FOR EVERY INCH OF THE TRUNK CALIPER (\( \text{IN} \)), DISTRIBUTED ON ALL SIDES FROM THE CENTER OF THE TRUNK.

9. THE CONTRACTOR SHALL ENSURE THAT THE TRANSPLANTED TREE SURVIVES WITHOUT SIGNIFICANT LOSS OF TREE VALUE FOR 1 YEAR.

10. IN GENERAL, TRANSPLANTING SHALL BE DONE BETWEEN MARCH 1ST AND APRIL 30TH, UNLESS DEEMED UNSUITABLE FOR EARLY SPRING TRANSPLANTING OR AS AUTHORIZED BY THE CITY OF BOULDER.

11. ROOT PROTECTION SHALL BE EMPLOYED DURING CONSTRUCTION, AND NOT BE CUT UNLESS APPROVED BY THE CITY AS SET FORTH. ALL TREES REMOVED SHALL INCLUDE STUMP GRINDING TO A MINIMUM DEPTH OF 12 INCHES.
NOTES:
- Boulder wall shall be constructed per FHWA C-428500
- Block wall shall be constructed per 8.5" ALLAN BLOCK
- Boulders shall be placed so that their height(s) is not greater than their width; the longest dimension of the boulder placed on cap rock is perpendicular to face of wall.
- Each rock above base rock should be on at least three other rocks and have a minimum of three points of contact.

SITE DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td>MAX. RETAINED HEIGHT</td>
<td>1'</td>
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<tr>
<td>MIN. WIDTH BASE ROCK</td>
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<tr>
<td>NON-WOVEN GEOTEXTILE FABRIC</td>
<td>- LAP SEAMS 12&quot; MIN.</td>
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<tr>
<td>6&quot; GRAVEL BED LAYER</td>
<td>3&quot;</td>
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<td>4&quot; GRAVEL BED LAYER</td>
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BOULDER WALL DESIGN TABLE

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<tr>
<th>HEIGHT OF WALL &quot;H&quot;</th>
<th>MINIMUM BASE ROCK SIZE</th>
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<td>H &lt;= 4'-6&quot;</td>
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<tr>
<td>4'-6&quot; &lt; H &lt;= 5'-6&quot;</td>
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NOTES:
1. Block wall shall be ALLAN BLOCK, ASHLAR BLEND PATTERN, TAN COLOR.
2. Refer to plans for tiered wall locations.
3. Retained soil block wall shall be engineered by ALLAN BLOCK.
4. Plant material, typ.,-retained soil.
EXISTING TREE INVENTORY PLAN

EXISTING VEGETATION CONTAINS APPROXIMATE 62,106 SF OF SHRUBS AND 50 TREES TO BE PRESERVED.

EXISTING TREE TO REMAIN

EXISTING TREE TO BE RELOCATED

LEGEND

EXCELLENT CONDITION

EXCELLENT CONDITION (EMERALD ASH BORER)

GOOD CONDITION

GOOD CONDITION (EMERALD ASH BORER)

FAIR CONDITION

FAIR CONDITION (EMERALD ASH BORER)

AREA OF INVENTORY

EXISTING TREE

EXISTING TREE TO REMAIN

EXISTING TREE TO BE RELOCATED

TREES ADDED TO INITIAL INVENTORY PLAN

01/22/2019

May 01, 2019 - 8:48am - USER Kurt

PCS

2 05.06.19 PMS TECHNICAL DOCUMENT SUBMITTAL #03

1 03.18.19 PMS TECHNICAL DOCUMENT SUBMITTAL #02

TI0.1

TREE INVENTORY PLAN

311 MAPLETON AVE., BOULDER, CO 80303

THE ACADEMY AT MAPLETON HILL

SHEET NO.

DRAWN BY:

DATE:

JOB #:

DESIGNED BY:

CHECKED BY:

www.pcsgroupco.com

p.o. box 18287

denver, co 80218

t 303.531.4905 . f 303.531.4908

SCALE: 1"=60'
EXISTING TREE TO REMAIN

EXISTING TREE TO BE RELOCATED

LEGEND
EXISTING VEGETATION
CONTAINS APPROXIMATE 62,106 SF OF SHRUBS AND 50 TREES TO BE PRESERVED.

SCALE: 1"=60'

TREES ADDED TO INITIAL INVENTORY PLAN

03.18.19 PMS TECHNICAL DOCUMENT SUBMITTAL #02

05.06.19 PMS TECHNICAL DOCUMENT SUBMITTAL #03

TR0.1

TREE LOCATION PLAN

TECH2018-00078

TECH2019-00003

SITE INFRASTRUCTURE PACKAGE
THE ACADEMY AT MAPLETON HILL
PCS
SA
PMS

01/22/2019
www.pcsgroupco.com
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03.18.19 PMS TECHNICAL DOCUMENT SUBMITTAL #02

05.06.19 PMS TECHNICAL DOCUMENT SUBMITTAL #03

TR0.1

TREE LOCATION PLAN

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