



**CALL 811**  
**WWW.CALL811.COM**  
 Or The One-Call Center of Colorado  
**WWW.UNCC.ORG**  
**1-800-922-1987**

[illegible]

14190 East Evans Avenue  
Aurora, Colorado 80014  
P 303.337.1393  
F 303.337.7481  
T/F 1.877.272.0650

**ESC**  
**ENGINEERING**  
**SERVICE**  
**COMPANY**

*Creative Solutions Since*  
CIVIL ENGINEERS | LAND SUR

Title: LOT 1, BLOCK 1, CHASE LUMBER SUBDIVISION FILING NO. 1  
SITUATED IN THE SE 1/4 OF SECTION 5, T.4N., R.69W. OF THE 6TH P.M.

CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

## → DRAINAGE DI ANNI

## — DRAINAGE PLAN

**BUILDERS**  
17600 SMITH ROAD  
AURORA, CO 80011  
PHONE: (303) 288-4214

**FOR REVIEW ONLY**  
**NOT FOR CONSTRUCTION**

Designed by: <i>CMA</i>	Engineering No. <i>E-014-19</i>
Drawn by: <i>JWB</i>	Date: <i>2020-03-06</i>
Checked by: <i>CMA</i>	Scale: Horz.: 1" = 30' Vert.: N/A
Sheet No.: <b>1 OF 3</b>	

1 OF 3

### LEGAL DESCRIPTION

LOT 1, BLOCK 1, CHASE LUMBER SUBDIVISION FILING NO. 1  
CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

BEARINGS ARE BASED ON THE EAST LINE OF THE NW 1/4 OF SECTION 33, TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN BEARING N100°10'01"W BOUNDED BY A 2" PIP WITH 3" BRASS CAP, L.S. 2132 FOUND AT THE CENTER QUARTER CORNER OF SAID SECTION 33 AND A 3-1/4" ALUMINUM CAP L.S. 25933 ON #6 REBAR FOUND AT THE NORTH QUARTER CORNER OF SAID SECTION 33.

CITY OF AURORA BM #3S6633NW002  
CHISELED SQUARE ON THE CENTER WEST EDGE OF CURB OPENING INLET AT THE SOUTH PCR  
AT THE SOUTHEAST CORNER OF RIFLE STREET AND EAST 25<sup>th</sup> AVENUE.  
ELEVATION: 5414.00 FEET (NAVD 1988 DATUM).  
THE CONTOURS SHOWN HEREON ARE AT ONE (1) FOOT INTERVALS.

## Preliminary

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION, SIZE, NUMBER, AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON MEASUREMENTS TAKEN IN THE FIELD AND RECORDS OF THE VARIOUS UTILITY COMPANIES. THIS INFORMATION IS NOT TO BE RELIED ON TO BE COMPLETE OR EXACT. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION TO REQUEST UTILITIES BE LOCATED AND MARKED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.

DETENTION POND DATA - WQ POND B AND POND 3  
DETENTION POND TRIBUTARY AREA = 6.98 ACRES  
MICROPOL WSEL = 7.65  
WQCV = 0.115 ACRE\*FEET; WQCV ELEVATION = 9.42; DEPTH = 1.77'  
EURV = 0.419 ACRE\*FEET; EURV ELEVATION = 10.71; DEPTH = 3.06'  
100-YEAR+1/2 EURV = 0.861 ACRE\*FEET; 100-YEAR+1/2EUR WSEL = 14.57; DEPTH = 6.92'

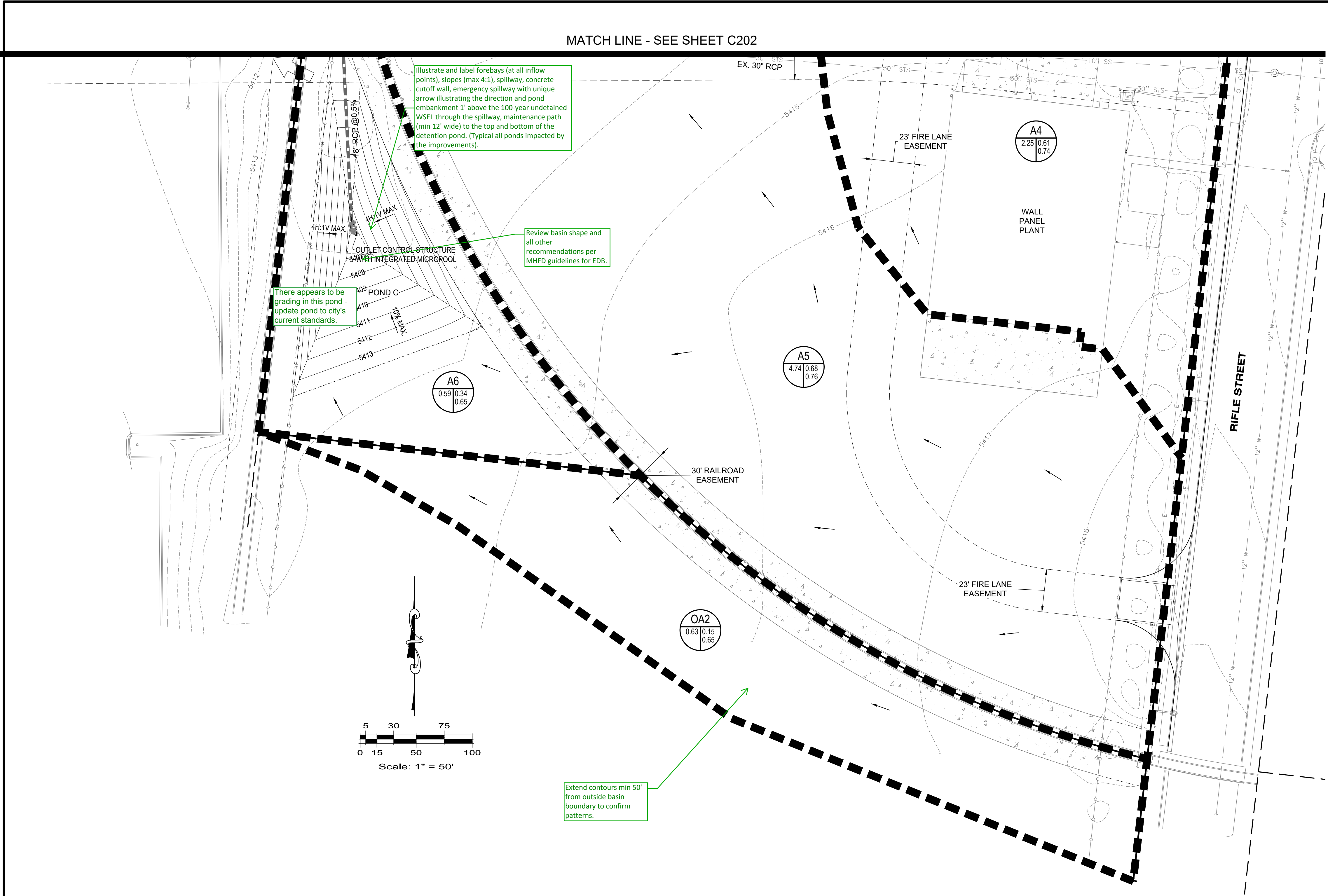
Clearly define the limits of proposed grading and improvements to determine detention and water quality improvements/ requirements. Clearly define the limits paving and curb and gutter.

Per 2.03.5.07.1 The benchmark number, description and elevation...Desc:  
CHISELED SQ CENTER  
EDGE CO INLET @ S P  
SE COR RIFLE ST & E 2  
AVE  
Verify this work is on  
88 datum - it appears

Per Section 2.34 H add: "All storm sewer is Public/Private (choose one) and sized for the \_\_\_\_ year event"

Drainage – Add “All storm sewer is (choose: private/public) and is sized for the \_\_\_\_\_ yr event, unless otherwise noted.

For Detention Ponds: Drainage easements are required for all ponds. Access easements from the drainage easement to public right of way are required for maintenance access. Show/label pond maintenance access to the pond bottom and top of the outlet structure. Indicate direction of emergency overflow. A license agreement is required for the entire detention pond.



**LEGEND**

- BOUNDARY
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EASEMENT
- FLOW ARROW
- PROPOSED BASIN BOUNDARY
- DESIGN POINT
- EXTREME EVENT OVERFLOW DIRECTION
- PROP. BASIN DESIGNATION
- BASIN DESIGNATION
- BASIN AREA IN ACRES
- C2
- C100

**PAVING NOTE**

ALL PAVING, INCLUDING CURB, GUTTER, AND SIDEWALK, TO BE INSTALLED OUTSIDE OF PUBLIC RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SITE SPECIFIC "REPORT OF GEOTECHNICAL ENGINEERING EVALUATION - PROPOSED DOLLAR GENERAL - MEADOWLARK DRIVE & WELD COUNTY ROAD 8 - BERTHOUD, COLORADO" PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. AND DATED SEPTEMBER 10, 2019; OR AS MAY HAVE BEEN AMENDED HENCE. RECOMMENDATIONS TO BE FOLLOWED INCLUDE, BUT ARE NOT LIMITED TO, THE PAVEMENT SECTION, MATERIALS, AND SUBGRADE PREPARATION. THE CONTRACTOR SHALL COORDINATE APPROVAL FOR INSTALLATION OF ANY ALTERNATE RECOMMENDATIONS INCLUDED IN THE INVESTIGATION OR DESIRED MODIFICATIONS TO THE RECOMMENDATIONS WITH THE OWNER/DEVELOPER AND/OR THEIR CONSTRUCTION MANAGER PRIOR TO BID AND PRIOR TO CONSTRUCTION.

**LEGAL DESCRIPTION**

LOT 1, BLOCK 1, CHASE LUMBER SUBDIVISION FILING NO. 1  
CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

**BASIS OF BEARINGS**

BEARINGS ARE BASED ON THE EAST LINE OF THE NW 1/4 OF SECTION 33, TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN BEARING N100°10'01"W BOUNDED BY A 2" PIPE WITH 3" BRASS CAP. L.S. 2132 FOUND AT THE CENTER QUARTER CORNER OF SAID SECTION 33 AND A 3/4" ALUMINUM CAP L.S. 25933 ON #6 REBAR FOUND AT THE NORTH QUARTER CORNER OF SAID SECTION 33.

**BENCHMARK**

CITY OF AURORA BM #3S6633NW002  
CHISELED SQUARE ON THE CENTER WEST EDGE OF CURB OPENING INLET AT THE SOUTH PCR AT THE SOUTHEAST CORNER OF RIFLE STREET AND EAST 25<sup>TH</sup> AVENUE.  
ELEVATION: 5414.00 FEET (NAVD 1988 DATUM).  
THE CONTOURS SHOWN HEREON ARE AT ONE (1) FOOT INTERVALS.

**CAUTION: NOTICE TO CONTRACTOR**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION, SIZE, NUMBER, AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON MEASUREMENTS TAKEN IN THE FIELD AND RECORDS OF THE VARIOUS UTILITY COMPANIES. THIS INFORMATION IS NOT TO BE RELIED ON TO BE COMPLETE OR EXACT. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION TO REQUEST UTILITIES BE LOCATED AND MARKED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.

**Know what's below. Call before you dig.**  
CALL 811  
WWW.CALL811.COM  
On The Ground Center of Colorado  
1-800-922-1987

Date: 2020-03-06

No.: Description: INITIAL SUBMITTAL

**ENGINEERING SERVICE COMPANY**  
14190 East Evans Avenue  
Aurora, Colorado 80014  
P 303.337.1393  
F 303.337.7481  
T/F 1.877.273.0659  
Creative Solutions Since 1964  
CIVIL ENGINEERS | LAND SURVEYORS  
engineering@serviceco.com

**DRAINAGE PLAN**

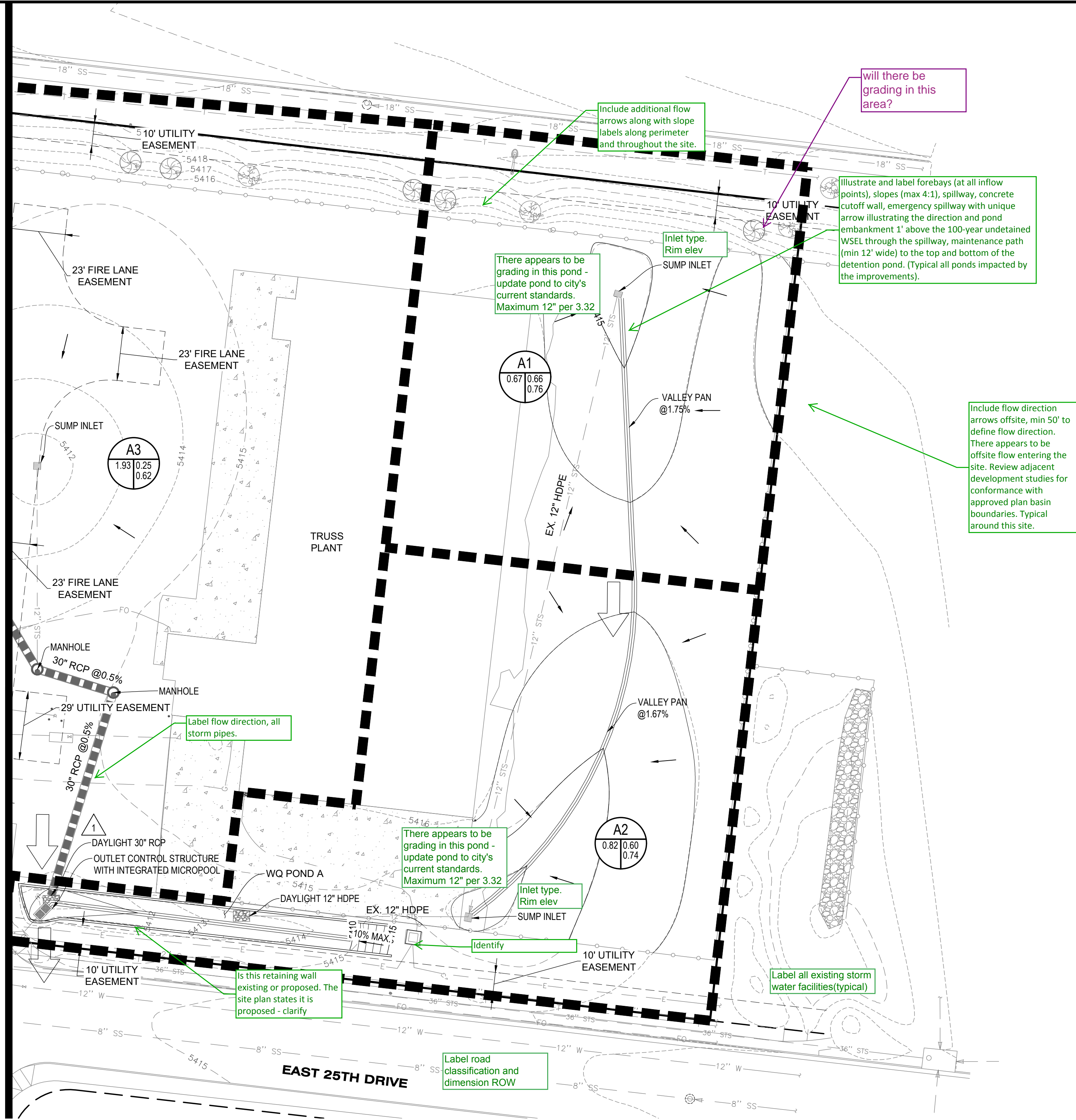
**BUILDERS**  
17800 SMITH ROAD  
AURORA, CO 80011  
PHONE: (303) 288-4214  
ATTN: CRAIG NELSON

**FOR REVIEW ONLY**  
Not for construction

Designed by: CMA  
Drawn by: JWB  
Checked by: CMA  
Sheet No: 2 OF 3

Engineering No.: E-014-19  
Date: 2020-03-06  
Scale: Horz.: 1" = 30'  
Vert.: N/A

MATCH LINE - SEE SHEET C202



DETENTION POND DATA - WQ POND A AND POND 2	
DETENTION POND TRIBUTARY AREA = 3.41 ACRES	
MICROPOOL WSEL = 8.70	
WQCV = 0.115 ACRE*FEET; WQCV ELEVATION = 10.74; DEPTH = 2.04'	
EURV = 0.419 ACRE*FEET; EURV ELEVATION = 11.69; DEPTH = 2.99'	
100-YEAR-1/2 EURV = 0.861 ACRE*FEET; 100-YEAR-1/2 EURV WSEL = 14.90; DEPTH = 6.2'	

PAVING NOTE

ALL PAVING, INCLUDING CURB, GUTTER, AND SIDEWALK, TO BE INSTALLED OUTSIDE OF PUBLIC RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SITE SPECIFIC 'REPORT OF GEOTECHNICAL ENGINEERING EVALUATION - PROPOSED DOLLAR GENERAL - MEADOWLARK DRIVE & WELD COUNTY ROAD 8 - BERTHOUD, COLORADO' PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. AND DATED SEPTEMBER 10, 2019; OR AS MAY HAVE BEEN AMENDED HENCE. RECOMMENDATIONS TO BE FOLLOWED INCLUDE, BUT ARE NOT LIMITED TO, THE PAVEMENT SECTION, MATERIALS, AND SUBGRADE PREPARATION. THE CONTRACTOR SHALL COORDINATE APPROVAL FOR INSTALLATION OF ANY ALTERNATE RECOMMENDATIONS INCLUDED IN THE INVESTIGATION OR DESIRED MODIFICATIONS TO THE RECOMMENDATIONS WITH THE OWNER/DEVELOPER AND/OR THEIR CONSTRUCTION MANAGER PRIOR TO BID AND PRIOR TO CONSTRUCTION.

LEGAL DESCRIPTION

LOT 1, BLOCK 1, CHASE LUMBER SUBDIVISION FILING NO. 1  
SITUATED IN THE SE 1/4 OF SECTION 33, T4N, R6W, OF THE 6TH P.M.  
CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

BASIS OF BEARINGS

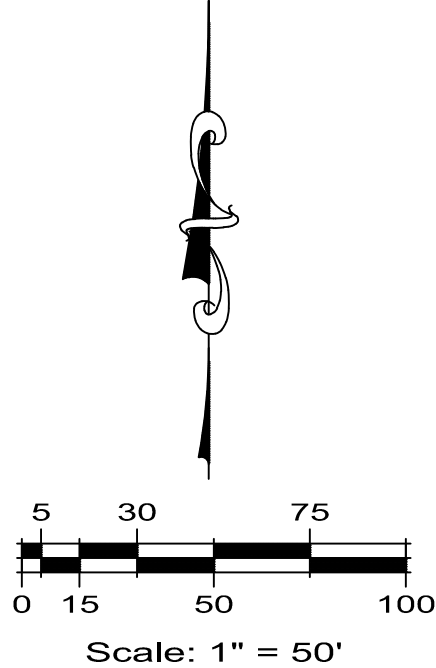
BEARINGS ARE BASED ON THE EAST LINE OF THE NW 1/4 OF SECTION 33, TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN BEARING N100°10'01"W BOUNDED BY A 2" PIPE WITH 3" BRASS CAP. L.S. 2132 FOUND AT THE CENTER QUARTER CORNER OF SAID SECTION 33 AND A 3-1/4" ALUMINUM CAP L.S. 25933 ON #6 REBAR FOUND AT THE NORTH QUARTER CORNER OF SAID SECTION 33.

BENCHMARK

CITY OF AURORA BM #356633NW002  
CHISELED SQUARE ON THE CENTER WEST EDGE OF CURB OPENING INLET AT THE SOUTH PCR AT THE SOUTHEAST CORNER OF RIFLE STREET AND EAST 25<sup>th</sup> AVENUE.  
ELEVATION: 5414.00 FEET (NAVD 1988 DATUM).  
THE CONTOURS SHOWN HEREON ARE AT ONE (1) FOOT INTERVALS.

LEGEND

- BOUNDARY
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EASEMENT
- FLOW ARROW
- PROPOSED BASIN BOUNDARY
- DESIGN POINT
- EXTREME EVENT OVERFLOW DIRECTION
- PROP. BASIN DESIGNATION
- BASIN DESIGNATION
- BASIN AREA IN ACRES
- C2
- C100



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

**811**  
www.call811.com  
On The Ground Center of Colorado  
1-800-922-1987

Date:	2020-03-06
No.:	INITIAL SUBMITTAL
Description:	

**ENGINEERING SERVICE COMPANY**  
14190 East Evans Avenue  
Aurora, Colorado 80014  
P 303.337.1393  
F 303.337.7481  
T/F 1.877.273.0659

**ENGINEERING SERVICE COMPANY**  
Creative Solutions Since 1964  
CIVIL ENGINEERS | LAND SURVEYORS  
engineering@esvc.co.com

**CLIENT:**  
LOT 1, BLOCK 1, CHASE LUMBER SUBDIVISION FILING NO. 1  
SITUATED IN THE SE 1/4 OF SECTION 33, T4N, R6W, OF THE 6TH P.M.  
CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

**BUILDERS:**  
17800 SMITH ROAD  
AURORA, CO 80011  
PHONE: (303) 288-4214  
ATTN: CRAIG NELSON

**DRAINAGE PLAN**

FOR REVIEW ONLY  
Not for construction

Designed by:	Engineering No.:
Drawn by:	Date:
Checked by:	Scale:
Sheet No.:	Horz.: 1" = 30'
	Vert.: N/A

3 OF 3