1

REV 214029

PIONEER HILLS FILING No. 5

STORM WATER MANAGEMENT PLANS - AMENDED

NORTH HALF OF SECTION 18, TOWNSHIP 5 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN CITY OF AURORA, COUNTY OF ARAPAHOE, STATE OF COLORADO

STANDARD STATEMENT AND NOTES FOR SWMP DESIGN DRAWINGS "PURSUANT TO SECTIONS 138-440 AND 138-442 OF THE AURORA MUNICIPAL CODE, THE PERMITTEE SHALL LOCATE, INSTALL, AND MAINTAIN ALL BEST MANAGEMENT PRACTICES, INCLUDING, BUT NOT LIMITED TO, EROSION CONTROLS, SEDIMENT CONTROLS, DRAINAGE CONTROLS, AND WATER QUALITY BMPS AS INDICATED IN THE APPROVED STORMWATER MANAGEMENT PLAN (SWMP). THE FOLLOWING NOTES ARE A REQUIREMENT AND SHALL BE INCLUDED ON THE SWMP DESIGN DRAWINGS DEVELOPED FOR THIS PROJECT AND SUBMITTED FOR APPROVAL BY THE CITY. BMP INSTALLATIONS SHALL BE INSTALLED PER THE COA STANDARD DETAIL IN EFFECT AT THE TIME OF INSTALLATION OR PER THE APPROVED SWMP DESIGN DRAWING, A COA APPROVED VARIANCE, OR A COA APPROVED DESIGN DRAWING PLAN AMENDMENT."

1. THE PERMITTEE SHALL BE RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, STORM SEWERS, STORM SEWER APPURTENANCES, OTHER PROPERTIES, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
2. ADDITIONAL EROSION AND SEDIMENT CONTROL BMPS MAY BE REQUIRED DURING AND AFTER CONSTRUCTION AND SHALL BE EXECUTED AND COMPLETED BY THE PERMITTEE. THE PERMITTEE SHALL PLAN, INSTALL, AND MAINTAIN ALL EROSION, AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE AND WATER QUALITY BMPS AS INDICATED ON THIS PLAN AND AS NECESSARY TO REDUCE THE DISCHARGE OF POLLUTANTS TO THE MAXIMUM EXTENT PRACTICABLE ADVERSE IMPACTS, EROSION AND SEDIMENT DEPOSITION ONTO PAVED SECTIONS, INTO STORM SEWERS, STORM SEWER APPURTENANCES, RECEIVING WATERS, OR OFF THE PROJECT SITE.
3. THE PERMITTEE SHALL TAKE APPROPRIATE PREVENTIVE MEASURES TO MINIMIZE TO THE MAXIMUM EXTENT PRACTICABLE DIRT AND MUD FROM BEING TRACKED OR DEPOSITED ONTO PAVED SECTIONS VIA MULTIPLE BMPS. SEDIMENT, MUD, AND CONSTRUCTION DEBRIS THAT MAY BE TRACKED, DEPOSITED, OR ACCUMULATED ON PAVED SECTIONS, IN THE FLOW LINES, PRIVATE PROPERTY, AND/OR PUBLIC RIGHTS-OF-WAY OF THE CITY AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE CLEANED UP.
4. AREAS REACHING SUBSTANTIAL COMPLETION OF GRADING AND TOPSOIL PLACEMENT OPERATIONS MUST BE DRILL SEEDED AND CRIMP MULCHED WITHIN 14 DAYS OF SUBSTANTIAL COMPLETION OF GRADING AND TOPSOIL OPERATIONS. IF AN INCOMPLETE AREA IS TO REMAIN INACTIVE FOR LONGER THAN 30 DAYS, IT MUST BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE LANDSCAPED WITHIN 14 DAYS FROM THE SUSPENSION OR COMPLETION OF LAND DISTURBANCE ACTIVITIES.
5. THIS APPROVED SWMP DESIGN DRAWING, THE ASSOCIATED APPROVED SWMP NARRATIVE, A COPY OF THE STORMWATER QUALITY DISCHARGE PERMIT, AND THE RULES AND REGULATIONS REGARDING STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES MANUAL SHALL BE KEPT ON SITE AT ALL TIMES.
6. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A BMP (MAINTENANCE) WHEN THE SEDIMENT LEVEL OR DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE BMP OR AS DEFINED WITHIN THE RULES AND REGULATIONS REGARDING STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES MANUAL, WHICHEVER IS MORE RESTRICTIVE. IF MAINTENANCE OF THE BMP DOES NOT RESTORE THE INTENDED FUNCTION, THEN THE BMP MUST BE REPLACED.
7. THE DISCHARGING OF CEMENT, CONCRETE, OR MORTAR FROM READY MIX DELIVERY TRUCKS, PUMP TRUCKS, BATCH PLANTS OR SMALL MECHANICAL MIXERS DIRECTLY ONTO PAVED SURFACES OR DISTURBED GROUND HAVING NO CONTAINMENT IS PROHIBITED. THE DISPOSAL OF ANY LIQUID WASTES OR WASH WATER FROM ANY OPERATIONS SUCH AS PAINTING, DRYWALL, OR TILE INSTALLATIONS DIRECTLY ONTO PAVED SURFACES OR THE GROUND WITHOUT CONTAINMENT IS PROHIBITED. THE PERMITTEE SHALL PROTECT ALL CURB FLOW LINES, ADJACENT WATERWAYS, WETLANDS, STORM SEWERS, STORM SEWER APPURTENANCES, OTHER PROPERTIES, ETC., ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE.
8. IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO RESOLVE CONSTRUCTION PROBLEMS DUE TO CHANGING CONDITIONS OR DESIGN ERRORS THEY MAY ENCOUNTER DURING THE PROGRESS OF ANY PORTION OF THE WORK. IF CONDITIONS IN THE FIELD REQUIRE CHANGES AND THE PROPOSED MODIFICATIONS TO THE APPROVED PLANS INVOLVE SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK OR TO FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE CONTRACTOR, THROUGH THE ENGINEER OF RECORD, SHALL BE RESPONSIBLE TO REVISE PLANS AND SUBMIT THEM TO THE CITY OF AURORA FOR APPROVAL PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE WORK. ANY CONTROLS, FEATURES OR IMPROVEMENTS NOT CONSTRUCTED IN ACCORDANCE WITH THE APPROVED SWMP, CITY OF AURORA STANDARD DETAIL DESIGNS, CITY OF AURORA APPROVED VARIANCES, OR AN APPROVED DESIGN DRAWING AMENDMENT SHALL BE REMOVED AND THE CONTROLS, FEATURES AND/OR IMPROVEMENTS SHALL BE RECONSTRUCTED.
9. SECONDARY CONTAINMENT FEATURES SHALL BE IN PLACE FOR ANY BULK FUEL STORAGE, MIXERS, GENERATORS, OR ANY OTHER SPILL OR LEAK SOURCE THAT REMAINS ONSITE FOR A PERIOD LONGER THAN 7 CALENDAR DAYS. A RECOVERY OR SALVAGE DRUM SHALL BE KEPT ON-SITE FOR STORAGE OF CONTAMINATED SOILS.
10. STRAW BALES AND RECYCLED ASPHALT OR CONCRETE ARE NOT ACCEPTABLE FOR THE CONSTRUCTION OF BMPS WITHIN THE CITY OF AURORA AND MAY NOT BE USED.
11. THIS STORMWATER MANAGEMENT PLAN HAS BEEN PLACED IN THE CITY OF AURORA FILE FOR THIS PROJECT AND HAS BEEN DETERMINED TO COMPLY WITH THE APPLICABLE CITY OF AURORA STORMWATER MANAGEMENT CRITERIA. ADDITIONAL STORMWATER MANAGEMENT, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE OWNER OR HIS/HER AGENTS, DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS SWMP SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE PERMITTEE(S) UNTIL SUCH TIME AS THE SWMP IS PROPERLY COMPLETED, MODIFIED OR VOIDED.
12. PLACE TRENCH SPOILS ON THE UPHILL SIDE OF THE TRENCH.

CITY OF AURORA REQUIRED NOTES:

2.03.5.01 CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF AURORA, THROUGH THE APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

2.03.5.04 ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS.

2.03.5.05 THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC IMPROVEMENT INSPECTIONS DIVISION, 303-739-7420, 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

2.03.5.06 LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION, CONTACT UTILITY NOTIFICATION CENTER OF COLORADO, 1-800-922-1987 OR 811.

2.03.5.07 THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF AURORA), ONE COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED AT THE JOB SITE AT ALL TIMES.

2.03.5.08 IT IS THE CONSULTANT'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON-SITE, AND OFF-SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NEEDED DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS EITHER ON-SITE OR OFF-SITE, WHICH ARISE IN THE FIELD, WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY. THE COST TO RECTIFY ANY ADVERSE SITUATION TO MEET THE CITY STANDARDS AND SPECIFICATIONS AND THE CITY CODE SHALL BE BORNE SOLELY BY THE DEVELOPER.

2.03.5.09 THE OWNER/DEVELOPER MUST OBTAIN THE WRITTEN PERMISSION OF THE ADJACENT PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE GRADING OR CONSTRUCTION.

2.03.5.18 THE OWNER/CONTRACTOR MUST OBTAIN A CDPS STORM WATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF REQUIRED.

2.03.5.19 THE OWNER/ CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ARMY CORPS OF ENGINEERS FOR WETLAND MITIGATION OR WORK WITHIN THE WATERS OF THE U.S. IF REQUIRED. IT IS THE RESPONSIBILITY OF THE OWNER/ CONTRACTOR OF THE ARMY CORP OF ENGINEERS REQUIREMENTS. CITY APPROVAL OF THE CONSTRUCTION PLANS IS SUBJECT TO THE OWNER OBTAINING A 404 PERMIT, IF APPLICABLE.

ADDITIONAL NOTES:

1. SEE CITY OF AURORA APPROVED PLAN #205160 FOR ADDITIONAL INFORMATION.
2. UTILITIES SHOWN HERE-ON ARE FROM THE APPROVED CONSTRUCTION PLANS (205160). THE CONTRACTOR IS REQUIRED TO LOCATE ALL UTILITIES WHETHER SHOWN OR NOT, PRIOR TO THE SWMP CONSTRUCTION PRESENTED HEREIN.
3. SEE THE COVER SHEET OF CITY OF AURORA STANDARD NOTES AND DETAILS FOR LEGEND OF BMP NAMES AND SYMBOLS.

SITE BENCHMARK

BENCHMARK NO. PR-113, CITY OF AURORA BRASS CAP SET IN SOUTH END OF EAST CONCRETE HEADWALL. ELEVATION = 5622.40 NGVD. (THIS IS EQUAL TO NAVD 1988 DATUM WHICH RAISED THE ELEVATION DATUM 2.97' TO 5625.37)

ABBREVIATIONS:

A.E.	ACCESS EASEMENT
D.E.	DRAINAGE EASEMENT
D.U.E.	DRAINAGE & UTILITY EASEMENT

BMP LEGEND

INITIAL BMPS, AS INDICATED ON THE PLANS SHALL BE IN PLACE PRIOR TO PERMIT SIGN-OFF.

CS	CURB SOCK
CW	CONCRETE WASHOUT AREA
CF	CONSTRUCTION FENCE
RSF	REINFORCED SILT FENCE
SF	SILT FENCE
SM	SEEDING & MULCHING
RCS	ROUGH CUT STREET CONTROL
IPO	INLET PROTECTION ON GRADE
IPO	INLET PROTECTION SUMP
IPO	INLET PROTECTION AREA
LC	SINGLE FAMILY LOT EROSION CONTR
RS	ROCK SOCK CHECK DAM
SSA	STABILIZED STAGING AREA
TSD	TEMPORARY SLOPE DRAIN
VTC	VEHICLE TRACKING CONTROL
LOC	LIMITS OF CONSTRUCTION
CM	CONSTRUCTION MARKERS ORANGE-PAINTED SURVEY POSTS
	AREA OUTSIDE CONSTRUCTION LIMITS

THE SINGLE FAMILY LOT EROSION CONTROLS SHALL BE USED FOR EACH BUILDING FOR FOUNDATION EXCAVATION, IF NECESSARY THROUGH VERTICAL CONSTRUCTION.

OVER-EXCAVATION NOTES: (1)

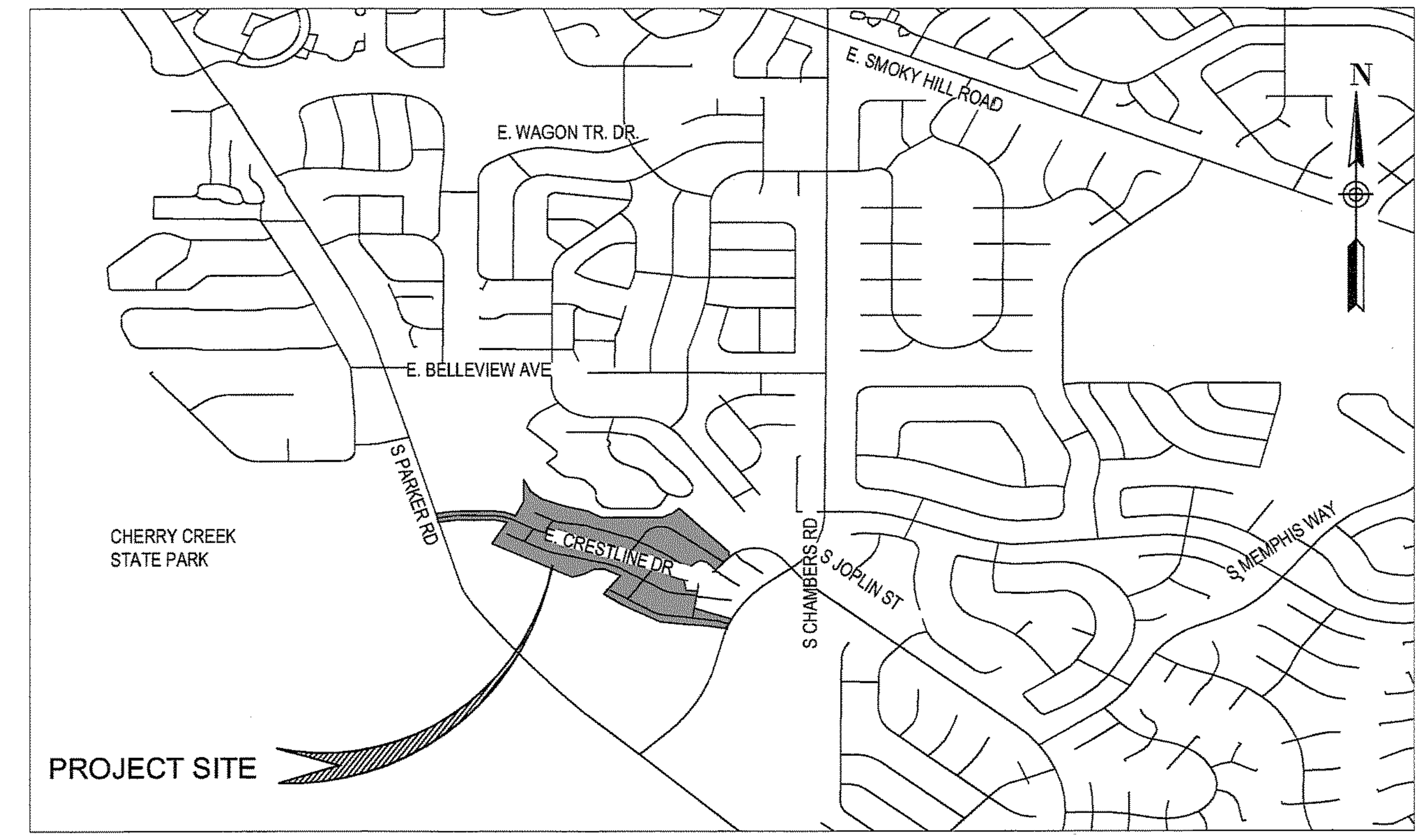
1. CONTRACTOR SHALL NOT LEAVE ANY 1:1 SLOPES OPEN FOR ANY EXTENDED PERIOD OF TIME. EXCAVATIONS WILL NEED TO BE BACKFILLED IF CONSTRUCTION IS DELAYED.
2. A PROFESSIONAL ENGINEER MUST BE ONSITE TO OBSERVE THE EXCAVATION, EVALUATE SLOPE STABILITY, AND DETERMINE WHEN SHORING AND OR SIDE SLOPING OF THE EXCAVATION ARE REQUIRED.
3. MAXIMUM SLOPE OF STOCKPILE IS 2H:1V
4. DUE TO THE DEPTH OF THE EXCAVATION, THE EXCAVATED AREA MUST BE SURROUNDED WITH A 6' HIGH CHAIN LINK FENCE AND MUST BE SECURELY CLOSED DURING NON-WORK HOURS TO PREVENT UNAUTHORIZED ACCESS.

FACSIMILE

THIS ELECTRONIC PLAN IS A FACSIMILE OF THE SIGNED AND SEALED PDF SET.

Kevin S. Roth 05/12/14

KEVIN S. ROTH, P.E. DATE



VICINITY MAP

SCALE 1" = 1000'

SWMP SIGNATURE BLOCK

PROJECT OWNER/DEVELOPER SIGNATURE BLOCK

I HAVE REVIEWED THE INFORMATION CONTAINED WITHIN THE STORMWATER MANAGEMENT PLAN AND ACCEPT RESPONSIBILITY FOR THE REQUIREMENTS SET FORTH.

Kent Pederson 5/9/14

KENT PEDERSON VICE PRESIDENT, LAND, RYLAND HOMES DATE

PLAN PREPARER SIGNATURE BLOCK

I ACKNOWLEDGE MY RESPONSIBILITY FOR THE PREPARATION OF THE STORMWATER MANAGEMENT PLAN. THE *STORMWATER MANAGEMENT PLAN* INCLUDED HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REQUIREMENTS OF THE *CITY OF AURORA RULES AND REGULATIONS REGARDING STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES MANUAL*, AS AMENDED.

THIS CERTIFICATION IS FOR THE DESIGN OF STORMWATER MANAGEMENT AS IT PERTAINS TO CONSTRUCTION SITE POLLUTION PREVENTION AND EROSION CONTROL AND SEDIMENTATION MANAGEMENT. THE PROPOSED CONSTRUCTION PLANS FOR ROADWAYS, UTILITIES, GRADING, AND DRAINAGE ANALYSIS WAS PREPARED BY OTHERS UNDER CITY APPROVED CONSTRUCTION PLANS # 205160. THIS PLAN SET DOES NOT PROPOSE TO MODIFY THOSE PLANS, EXCEPT FOR THE EROSION CONTROL IN ANY WAY.

Kevin S. Roth 05/12/14

KEVIN S. ROTH, P.E DATE

NOTES:

1. GENERAL ORDER OF BMP/ CONSTRUCTION:

PERIMETER CONTROLS:
- CONSTRUCTION FENCE
- CONSTRUCTION MARKERS
- SILT FENCE
- REINFORCED SILT FENCE
- VEHICLE TRACKING CONTROL

SEDIMENT BASINS AND DIVERSION DITCHES
TEMPORARY SLOPE DRAINS
INLET CONTROLS
STABILIZED STAGING AREA
CHECK DAMS
STOCK PILES AS NEEDED
SURFACE ROUGHENING
CONCRETE WASHOUT - BEFORE CONCRETE IS BROUGHT ONTO SITE
TEMPORARY SEEDING AND MULCHING

UTILITIES LEGEND:

- SANITARY SEWER
- WATERLINE
- STORM SEWER
- FIRE HYDRANT
- FLARED END SECTION
- GATE VALVE
- SANITARY MANHOLE
- STORM INLET
- STORM MANHOLE

SHEET INDEX

1 COVER
2 OVERALL PLAN - INDEX
3 INITIAL SWMP PLAN
4 INITIAL SWMP PLAN
5 INITIAL SWMP PLAN
6 INITIAL SWMP PLAN
7 POST PAVING SWMP PLAN
8 POST PAVING SWMP PLAN
9 POST PAVING SWMP PLAN
10 POST PAVING SWMP PLAN

APPROVED FOR ONE YEAR FROM THIS DATE
MAY 21, 2014

CDP [signature] 05/20/2014
CITY ENGINEER DATE

[signature] 5/19/14
WATER DEPARTMENT DATE

ROTH ENGINEERING GROUP
7853 E. ARAPAHOE COURT
SUITE 2500
CENTENNIAL, CO 80112
PHONE: 303-841-9365
FAX: 303-648-5212

811 Know what's below. Call before you dig.
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

PIONEER HILLS FILING No. 5
STORM WATER MANAGEMENT PLANS - AMENDED
COVER

PREPARED FOR:
RYLAND HOMES
6161 S. SYRACUSE WAY, SUITE 200
GREENWOOD VILLAGE, CO 80111

ISSUE DATE: 2/28/14

DATE	REVISIONS	BY
05/07/14	1 OVER EX. NOTES	

DESIGNED BY:	KSR
DRAWN BY:	JRF
JOB NUMBER:	131202

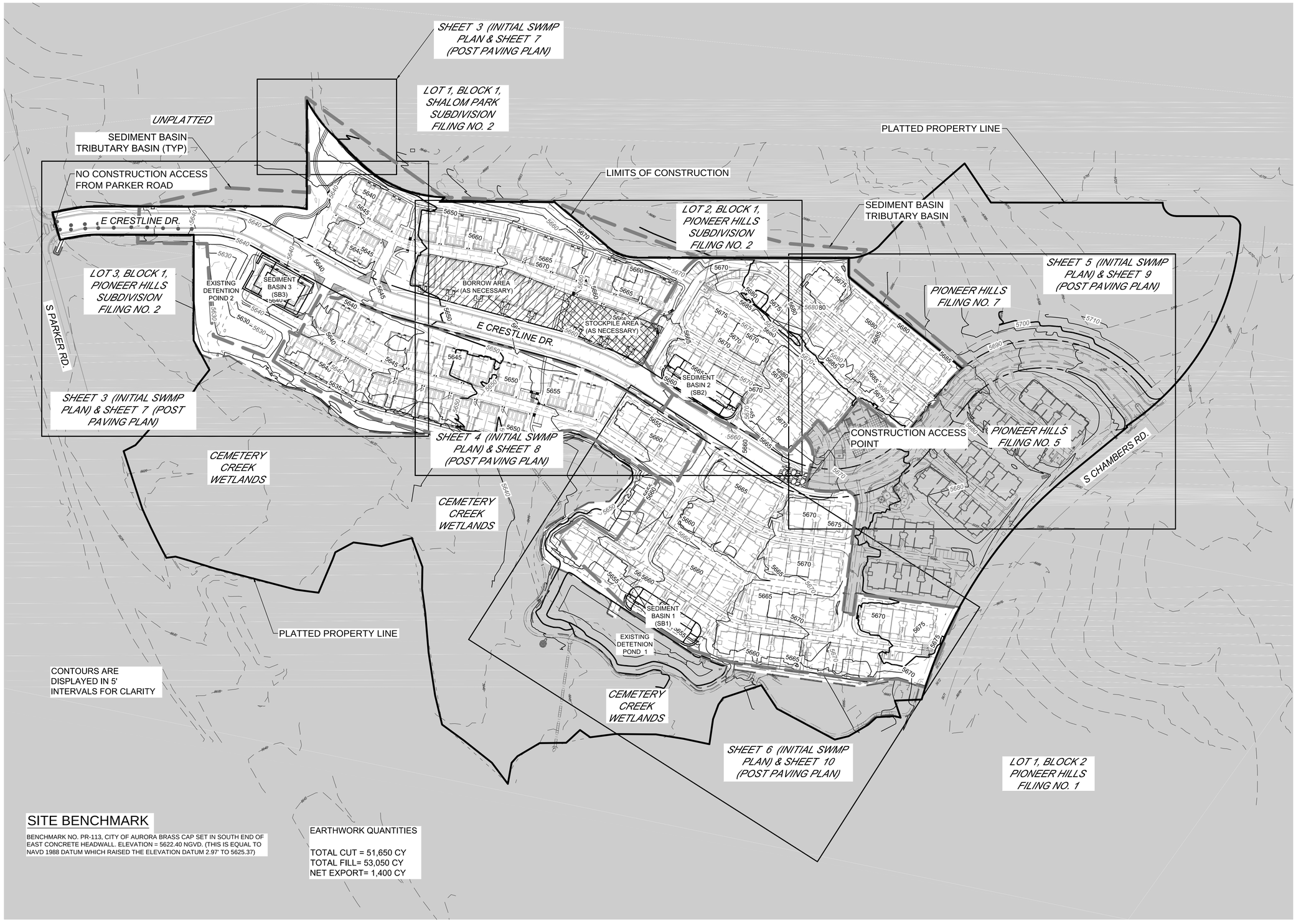
SHEET NUMBER:
1

REVISED 05/21/2014

Plotted by: Kevin Roth Date: 5/7/2014 4:38 PM

2

214029



SITE BENCHMARK

BENCHMARK NO. PR-113, CITY OF AURORA BRASS CAP SET IN SOUTH END OF EAST CONCRETE HEADWALL. ELEVATION = 5622.40 NGVD. (THIS IS EQUAL TO NAVD 1988 DATUM WHICH RAISED THE ELEVATION DATUM 2.97' TO 5625.37)

EARTHWORK QUANTITIES

TOTAL CUT = 51,650 CY
TOTAL FILL= 53,050 CY
NET EXPORT= 1,400 CY

ROTH ENGINEERING GROUP
7853 E. ARAPAHOE COURT
SUITE 2500
CENTENNIAL, CO 80112
PHONE: 303-841-9365
FAX: 303-648-5212

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PIONEER HILLS FILING No. 5

STORM WATER MANAGEMENT PLANS - AMENDED

OVERALL PLAN - INDEX

PREPARED FOR:

RYLAND HOMES
6161 S. SYRACUSE WAY, SUITE 200
GREENWOOD VILLAGE, CO 80111

DATE	REVISIONS	BY

ISSUE DATE: 2/28/14

DESIGNED BY:	KSR
DRAWN BY:	JRF
JOB NUMBER:	131202

PLAN SCALE
100 0 100
HORIZONTAL SCALE: 1" = 100'
BAR IS 2 INCHES ON ORIGINAL DRAWING

FACSIMILE
THIS ELECTRONIC PLAN IS A FACSIMILE OF THE SIGNED AND SEALED PDF SET.

Kevin S Roth

KEVIN S. ROTH, P.E.
3/5/2014

SHEET NUMBER:
2

APPROVED ON 03.20.14

Plotted by: Katie Sukalski Date: 2/28/2014 12:47 PM
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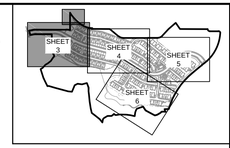
3

214029

KEYMAP
SCALE: 1"=1000'



MATCHLINE - THIS SHEET

SEDIMENT BASIN TRIBUTARY BOUNDARY (TYP)

UNPLATTED

NO CONSTRUCTION ACCESS FROM PARKER ROAD

E CRESTLINE DR.

S PARKER RD.

LOT 3, BLOCK 1, PIONEER HILLS SUBDIVISION FILING NO. 2

POND EASEMENT

OVERFLOW WEIR

SPILLWAY CREST L = 13'
HOLE DIA (HD) = 7/8"
PIPE DIA = 6"

16' U.E.

26' D.U.E.

23' A.E.

NOTE:
TEMPORARY DITCH TO POND PRIOR TO ROAD AND UTILITY CONSTRUCTION

DRAINAGE EASEMENT

WETLAND EASEMENT

CEMETERY CREEK WETLANDS

SITE BENCHMARK

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NOTES:

1. SEE CITY OF AURORA APPROVED PLAN #205160 FOR ADDITIONAL INFORMATION.
2. UTILITIES SHOWN HERE-ON ARE FROM THE APPROVED CONSTRUCTION PLANS (205160). THE CONTRACTOR IS REQUIRED TO LOCATE ALL UTILITIES WHETHER SHOWN OR NOT, PRIOR TO THE SWMP CONSTRUCTION PRESENTED HEREIN.
3. EXISTING CONTOURS PROVIDED BY AZTEC CONSULTANTS, INC. ON JAN. 23, 2014.
4. SEE THE COVER SHEET OF CITY OF AURORA STANDARD NOTES AND DETAILS FOR LEGEND OF BMP NAMES AND SYMBOLS.

CONTOUR LEGEND

5280 EXISTING CONTOUR

CUT / FILL LINE

MATCHLINE - SEE SHEET 4

ROTH ENGINEERING GROUP
7853 E. ARAPAHOE COURT
SUITE 2500
CENTENNIAL, CO 80112
PHONE: 303-841-9365
FAX: 303-648-5212

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PIONEER HILLS FILING No. 5

STORM WATER MANAGEMENT PLANS - AMENDED
INITIAL SWMP PLAN

PREPARED FOR:
RYLAND HOMES
6161 S. SYRACUSE WAY, SUITE 200
GREENWOOD VILLAGE, CO 80111

ISSUE DATE: 2/28/14	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JRF
JOB NUMBER:	131202

PLAN SCALE
30 0 30
HORIZONTAL SCALE: 1" = 30'
BAR IS 2 INCHES ON ORIGINAL DRAWING

FACSIMILE
THIS ELECTRONIC PLAN IS A FACSIMILE OF THE SIGNED AND SEALED PDF SET.

Kevin S. Roth
KEVIN S. ROTH, P.E.
3/5/14

SHEET NUMBER:
3

APPROVED ON 03.20.14

Plotted by: Katie Sulaiski Date: 2/28/2014 12:48 PM
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4

REV 214029

SITE BENCHMARK

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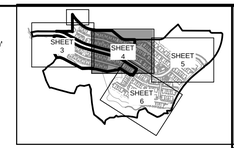
KEYMAP
SCALE: 1'=1000'



LOT NO. LEGEND

11 LOT NUMBERS FILING 5

(11) LOT NUMBERS FILING 10

CONTOUR LEGEND

5280 EXISTING CONTOUR

CUT / FILL LINE

SEDIMENT BASIN TRIBUTARY BOUNDARY (TYP)

LOT 2, BLOCK 1, PIONEER HILLS SUBDIVISION FILING NO. 2

EX ROCK SOCK CHECK DAMS TO REMAIN UNTIL FILING NO. 7 OUTFALL PIPE IS CONSTRUCTED (TYP)

CHAIN LINK FENCE AROUND OVER EXCAVATION. REMOVE AFTER OVER EXCAVATION BACKFILL

OVEREXCAVATION VOLUME = 30,000 cy (approx)

BORROW AREA (AS NECESSARY)

STOCKPILE AREA (AS NECESSARY)
NOTE: PROVIDE DOWNSTREAM CONTAINMENT AROUND STOCKPILE

PIONEER HILLS SUBDIVISION FILING NO. 10 BLOCK 1

PIONEER HILLS SUBDIVISION FILING NO. 10 BLOCK 2

PIONEER HILLS FILING NO. 5 BLOCK 1

E CRESTLINE DR.

CEMETERY CREEK WETLANDS

SB2
SPILLWAY CREST L = 11'
HOLE DIA (HD) = 25/32"
PIPE DIA = 6"

MATCHLINE - SEE SHEET 3

MATCHLINE - SEE SHEET 5

MATCHLINE - SEE SHEET 6

NOTES:

1. SEE CITY OF AURORA APPROVED PLAN #205160 FOR ADDITIONAL INFORMATION.
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3. EXISTING CONTOURS PROVIDED BY AZTEC CONSULTANTS, INC. ON JAN. 23, 2014.
4. SEE THE COVER SHEET OF CITY OF AURORA STANDARD NOTES AND DETAILS FOR LEGEND OF BMP NAMES AND SYMBOLS.

OX = BUILDING WHICH REQUIRE OVER EXCAVATION.
OVER EXCAVATION SHALL BE IN ACCORDANCE WITH APPROVED GEOTECHNICAL STUDY.
SEE NOTES FOR REQUIREMENTS ON SHEET 1.

REVISED 05/21/2014

ROTH ENGINEERING GROUP
7853 E. ARAPAHOE COURT
SUITE 2500
CENTENNIAL, CO 80112
PHONE: 303-841-9365
FAX: 303-648-5212

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PIONEER HILLS FILING No. 5

STORM WATER MANAGEMENT PLANS - AMENDED
INITIAL SWMP PLAN

RYLAND HOMES
6161 S. SYRACUSE WAY, SUITE 200
GREENWOOD VILLAGE, CO 80111

PREPARED FOR:

ISSUE DATE: 2/28/14

DATE	REVISIONS	BY
05/01/14	1 OVER EXCAVATION DETAIL/NOTES	KSR
05/08/15	ADDED LOT AND BLOCK #'S	

DESIGNED BY:	KSR
DRAWN BY:	JRF
JOB NUMBER:	131202

PLAN SCALE
30 0 30
HORIZONTAL SCALE: 1" = 30'
BAR IS 2 INCHES ON ORIGINAL DRAWING

FACSIMILE

THIS ELECTRONIC PLAN IS A FACSIMILE OF THE SIGNED AND SEALED PDF SET.

Kevin S. Roth

SHEET NUMBER:
4

Plotted by: Kevin Roth Date: 5/8/2014 9:01 AM
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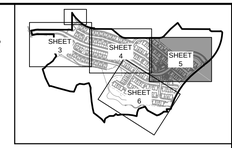
5

214029

KEYMAP
SCALE: 1"=1000'



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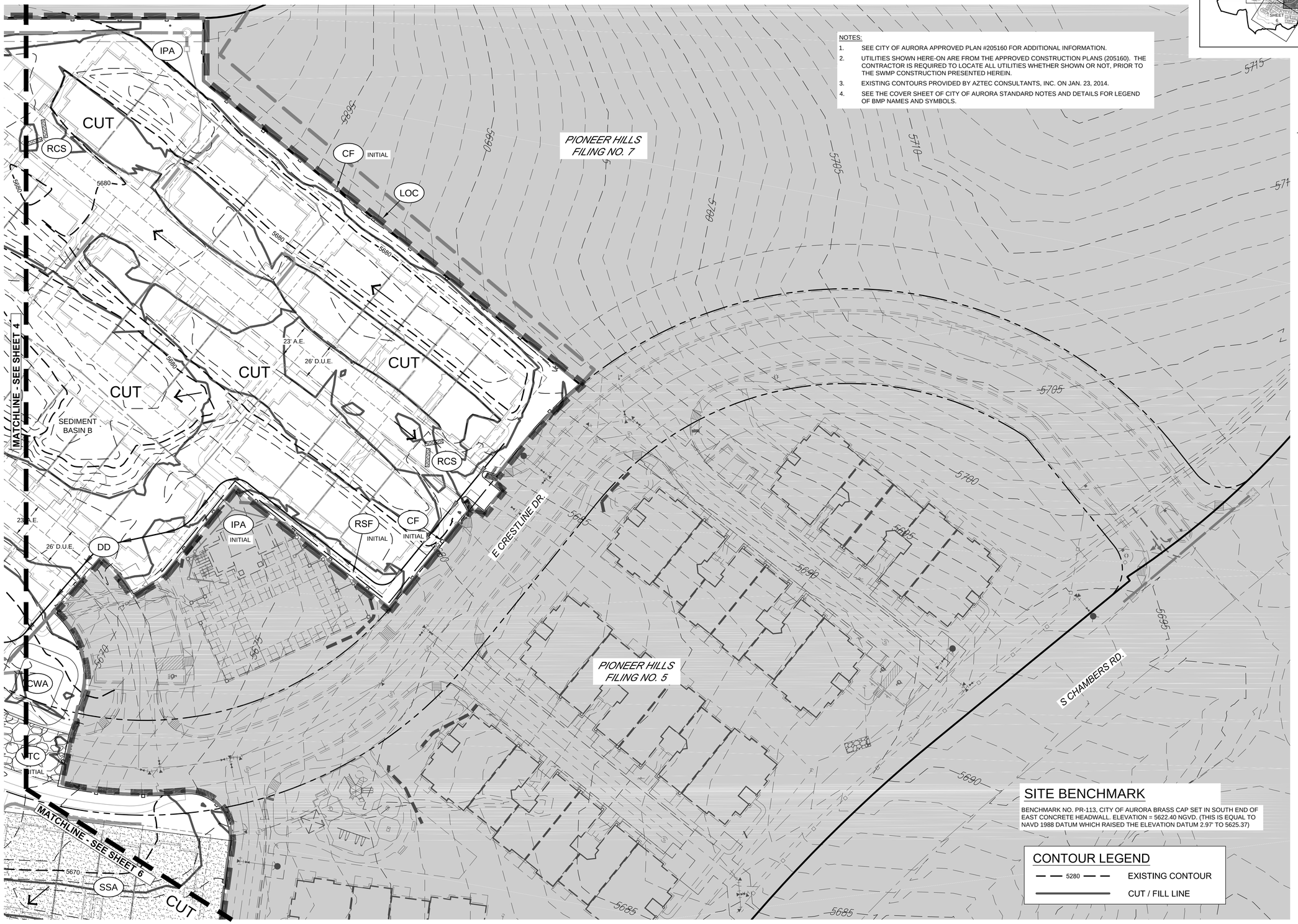

SITE BENCHMARK

BENCHMARK NO. PR-113, CITY OF AURORA BRASS CAP SET IN SOUTH END OF EAST CONCRETE HEADWALL. ELEVATION = 5622.40 NGVD. (THIS IS EQUAL TO NAVD 1988 DATUM WHICH RAISED THE ELEVATION DATUM 2.97' TO 5625.37)

CONTOUR LEGEND

- 5280 — EXISTING CONTOUR
- CUT / FILL LINE

APPROVED ON 03.20.14

ROTH ENGINEERING GROUP
7853 E. ARAPAHOE COURT
SUITE 2500
CENTENNIAL, CO 80112
PHONE: 303-841-9365
FAX: 303-648-5212

811 Know what's below. Call before you dig.
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

PIONEER HILLS FILING No. 5

STORM WATER MANAGEMENT PLANS - AMENDED
INITIAL SWMP PLAN

PREPARED FOR:
RYLAND HOMES
6161 S. SYRACUSE WAY, SUITE 200
GREENWOOD VILLAGE, CO 80111

ISSUE DATE: 2/28/14	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JRF
JOB NUMBER:	131202

PLAN SCALE
30 0 30
HORIZONTAL SCALE: 1" = 30'
BAR IS 2 INCHES ON ORIGINAL DRAWING

FACSIMILE
THIS ELECTRONIC PLAN IS A FACSIMILE OF THE SIGNED AND SEALED PDF SET.
Kevin S. Roth
KEVIN S. ROTH, P.E.
3/5/14

SHEET NUMBER:
5

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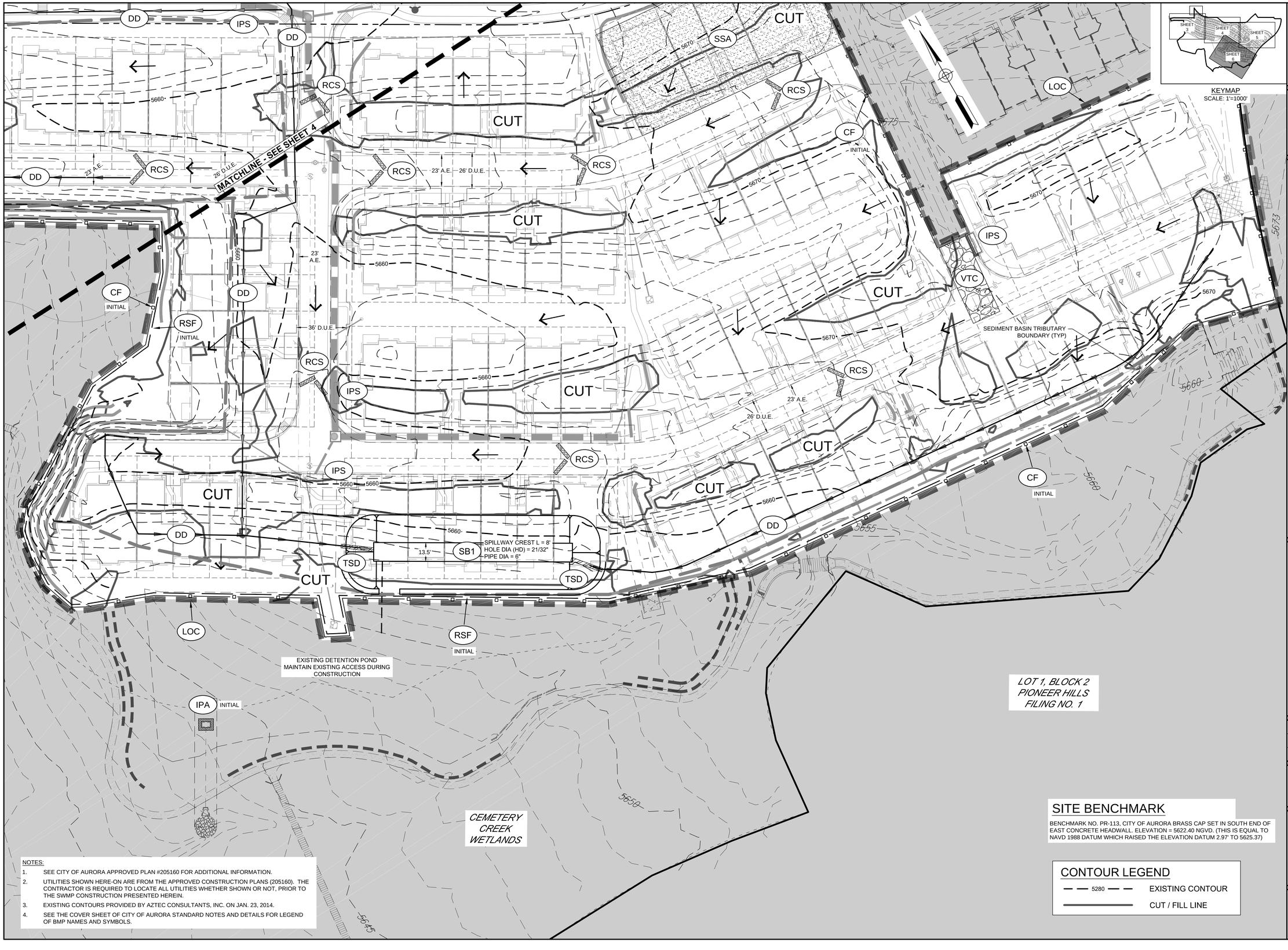

KEYMAP
SCALE: 1"=1000'

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SHEET NUMBER:
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KEYMAP
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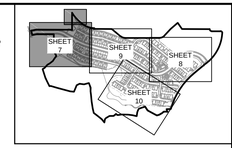

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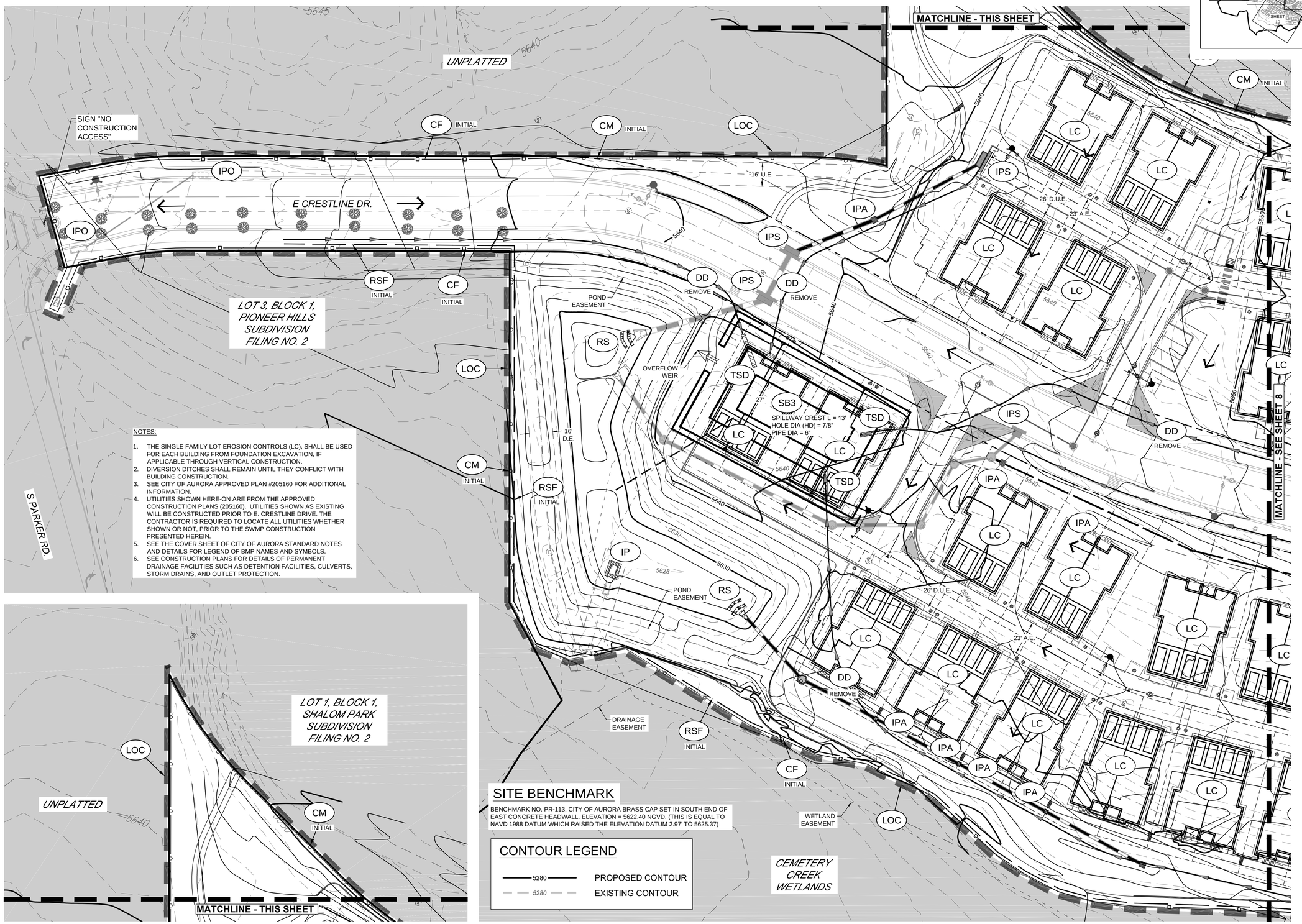

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CONTOUR LEGEND

5280 — PROPOSED CONTOUR
5280 — EXISTING CONTOUR

PIONEER HILLS FILING No. 5

STORM WATER MANAGEMENT PLANS - AMENDED
POST PAVING SWMP PLAN

RYLAND HOMES
6161 S. SYRACUSE WAY, SUITE 200
GREENWOOD VILLAGE, CO 80111

PREPARED FOR:

DATE	REVISIONS	BY

ISSUE DATE: 2/28/14

DESIGNED BY:	KSR
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PLAN SCALE
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FACSIMILE
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Kevin S. Roth
KEVIN S. ROTH, P.E.
3/5/14

SHEET NUMBER:
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8

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SITE BENCHMARK

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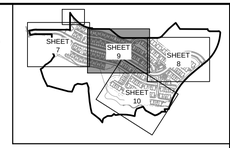

CONTOUR LEGEND

5280 — PROPOSED CONTOUR

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ROTH ENGINEERING GROUP
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PIONEER HILLS FILING No. 5

STORM WATER MANAGEMENT PLANS - AMENDED
POST PAVING SWMP PLAN

PREPARED FOR:
RYLAND HOMES
6161 S. SYRACUSE WAY, SUITE 200
GREENWOOD VILLAGE, CO 80111

ISSUE DATE: 2/28/14	DATE	REVISIONS	BY

DESIGNED BY:	KSR
DRAWN BY:	JRF
JOB NUMBER:	131202

PLAN SCALE
30 0 30
HORIZONTAL SCALE: 1" = 30'
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FACSIMILE
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Kevin S. Roth
KEVIN S. ROTH, P.E.
3/5/14

SHEET NUMBER:
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APPROVED ON 03.20.14

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KEYMAP
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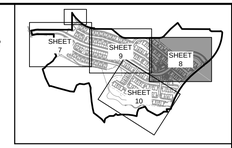

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PIONEER HILLS FILING NO. 7

PIONEER HILLS FILING NO. 5

E CRESTLINE DR.

S CHAMBERS RD.

MATCHLINE - SEE SHEET 8

MATCHLINE - SEE SHEET 10

IPA
CF INITIAL
LOC
LC
RSF INITIAL
CF INITIAL
IPA INITIAL
DD REMOVE
CWA
ITC INITIAL
SSA

23' A.E.
26' D.U.E.

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7. CONTRACTOR TO MINIMIZE CONSTRUCTION TRAFFIC AND ACTIVITIES TO LIMIT DISTURBANCE TO EXISTING HOMES & HOMOWNERS.

CONTOUR LEGEND

5280 PROPOSED CONTOUR

5280 EXISTING CONTOUR

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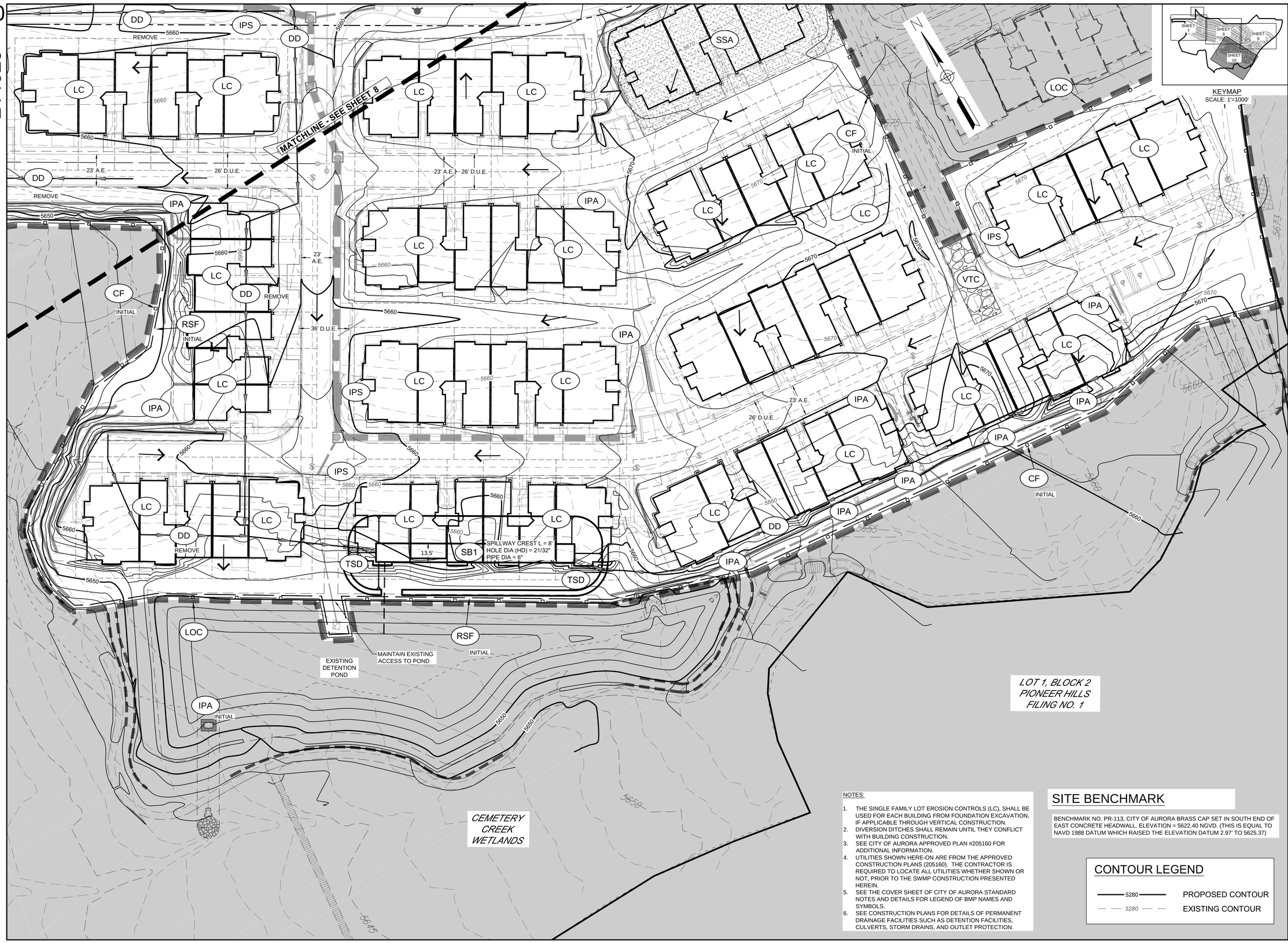

KEYMAP
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CONTOUR LEGEND

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5280 — EXISTING CONTOUR

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