CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



November 21, 2019

Kevin M. Hall, P.E. Cypress Civil Development 2030 E. Speedway Blvd. Ste 110 Tucson, AZ 85719

RE: Generations at West Mesa
5710 Avalon Rd NW
Permanent C.O. - Accepted
Engineer's Certification Dated 11/20/19
Engineer Stamp Date: 04/11/18
Hydrology File: K11D084

PO Box 1293 Dear Mr. Hall:

Based on the Certification received 11/20/19 and site visit on 11/21/19, this certification is

approved in support of Permanent Release of Occupancy by Hydrology.

Albuquerque

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

NM 87103

Sincerely,

www.cabq.gov

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

Renée C. Brissette

DRAINAGE CERTIFICATION

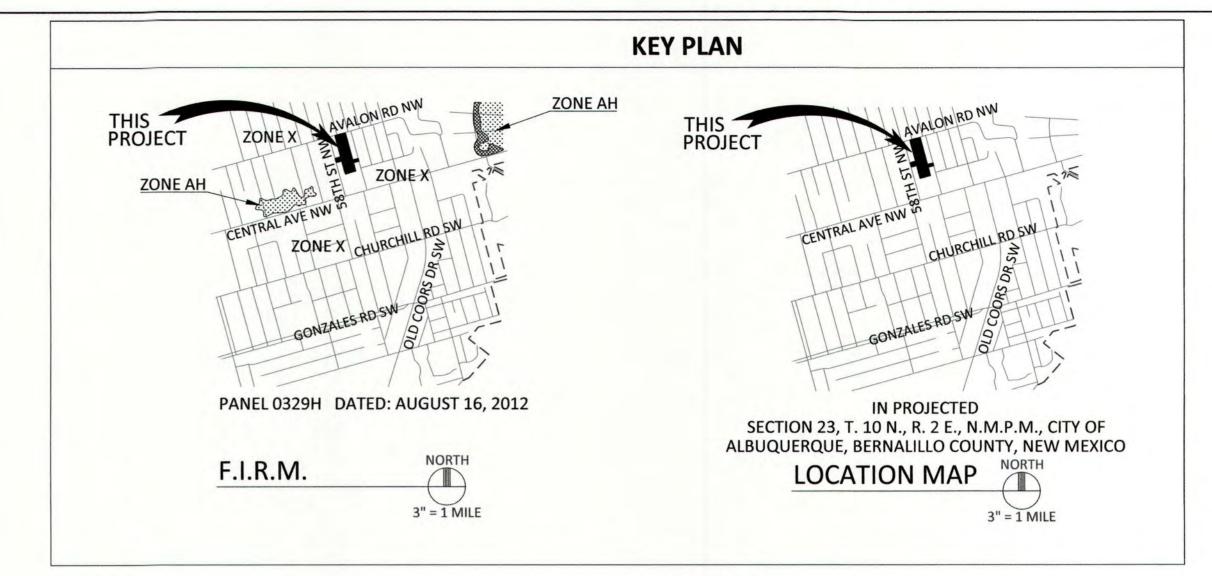
I, KEVIN HALL, NMPE 23149, OF THE FIRM CYPRESS CIVIL DEVELOPMENT, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAI IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 2018-06-11. THE RECOF INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY THOMAS D. JOHNSTON, NMPS 14269, OF THE FIR WAYJOHN SURVEYING, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 2019-11-14 AND 2019-11-15 AND HAV CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE (OCCUPANCY.

DURING THE SITE VISIT ON 2019-11-15 CYPRESS CIVIL PROVIDED THE CONTRACTOR WITH A LIST OF MINOR CORRECTIONS TO BE MADE, # IDENTIFIED DURING THE SITE VISIT. THE REQUESTED CORRECTIONS HAVE SINCE BEEN ADDRESSED AND CONFIRMED FOR COMPLIANCE ON 201 11-19.

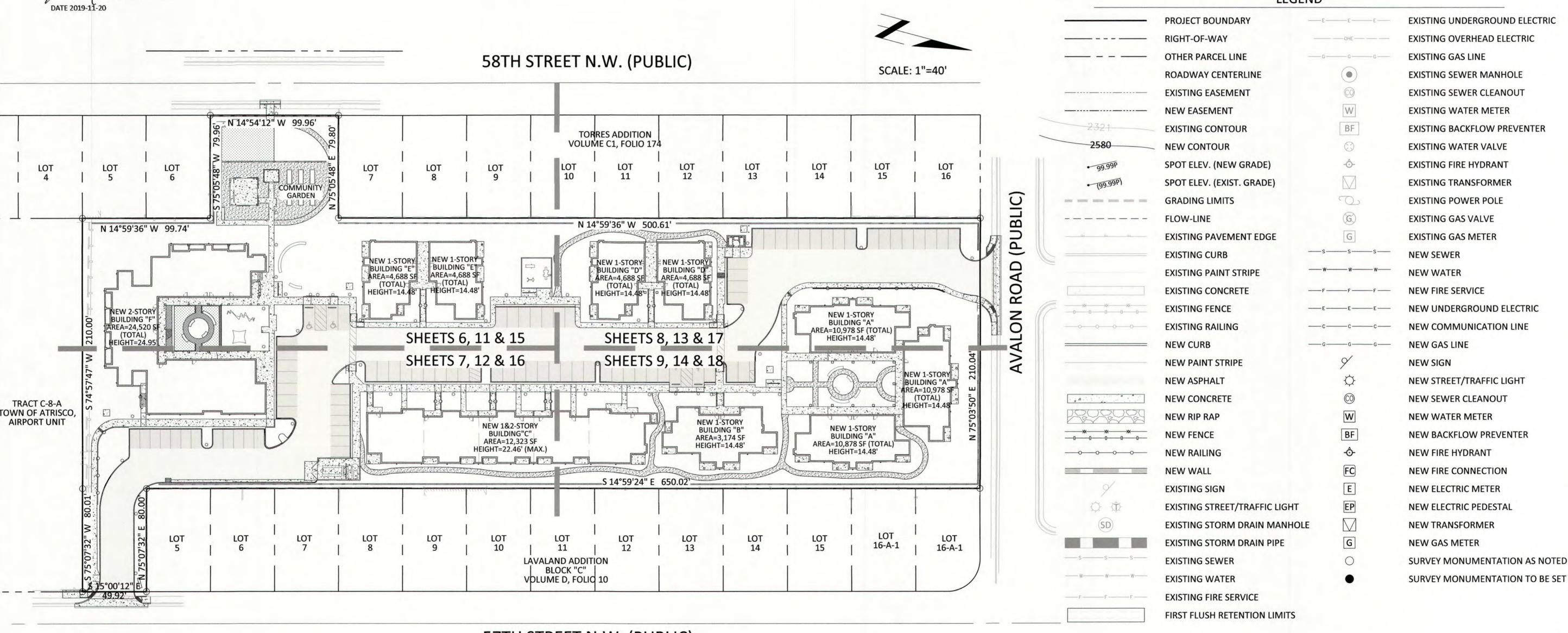
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAI INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

KEVIN HALL, NMPE 23149





LEGEND



57TH STREET N.W. (PUBLIC)

PROJECT OVERVIEW PLAN

SHEET INDEX

C001 COVER SHEET

C002 NOTES

C003 NOTES

C004 EXISTING WATERSHED MAP

C005 PROPOSED WATERSHED MAP

C006 GRADING + DRAINAGE PLAN (SW)

COO7 GRADING + DRAINAGE PLAN (SE)

C008 GRADING + DRAINAGE PLAN (NW)

C009 GRADING + DRAINAGE PLAN (NE)

CO10 DETAILS

CO11 RETAINING WALL EXHIBIT (SW) CO11 RETAINING WALL EXHIBIT (SE)

CO13 RETAINING WALL EXHIBIT (NW)

CO14 RETAINING WALL EXHIBIT (NE) CO15 UTILITIES + EASEMENTS (SW)

CO16 UTILITIES + EASEMENTS (SE)

CO17 UTILITIES + EASEMENTS (NW) CO18 UTILITIES + EASEMENTS (NE)

SHEET NO

COVER SHEET

C001

GRADING AND DRAINAGE

ARCHITECTURE / DESIGN / INSPIRATION

PERICH

SABATINI

7601 JEFFERSON NE. SUITE 100 ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

CIVIL DEVELOPMEN

tucson, arizona 85719 ph: 520.499.2456

e: kmhall@cypresscivil.com

5710 Avalon Albuquerque,

100% CONSTRUCTION

DOCUMENTS

04/06/2018 ADDENDUM 002:

KMH

04/06/2018

14-0701

ALL SHEETS REISSUED

DRAWN BY

REVIEWED BY

PROJECT NO

DRAWING NAME

2030 east speedway boulevard

ENGINEER

suite #110

ENGINEER

PROJECT

Know what's below. Call before you dig. FOR LOCATE REQUESTS CALL 811 OR 1-800-321-ALERT (2537) EXCAVATORS/CONTRACTORS **CHOOSE OPTION 2**

GENERAL NOTES

- .. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #9, AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
- 2. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS ISSUED BY THE CITY.
- 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4. CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 5. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- 6. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- . CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER (OR PROJECT MANAGER) NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATIONS SECTION 4.4.
- 8. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO DMD, CONSTRUCTION COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE DMD, CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS. PERMIT REQUESTS MAY BE DENIED OR DELAYED DUE TO CONFLICTS WITH OTHER PROJECTS IN THE AREA. [CIP JOBS]
- 9. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- 10. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- 11. CONTRACTOR SHALL ASSUME FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, SIGNAGE, CURB AND GUTTER, HANDICAP RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE, PER THE STANDARD SPECIFICATIONS, ANY SUCH DAMAGE.
- 12. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.



FOR LOCATE REQUESTS CALL: 811 OR 1-800-321-ALERT (2537) EXCAVATORS/CONTRACTORS CHOOSE OPTION 2

GENERAL NOTES (cont.)

- 13. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY AND OTHER JURISDICTIONAL **AUTHORITIES WHERE APPLICABLE.**
- 14. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. EXISTING VALVES AND MANHOLES SHALL NOT BE BURIED OR PAVED OVER BUT RIMS SHALL BE ADJUSTED TO MATCH NEW GRADE PER COA STANDARD DRAWINGS 2460 AND 2461.
- 15. MANHOLE RIMS, FIRE HYDRANT ELEVATIONS, AND FLANGE **ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL** FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
- 16. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT HTTP://ABCWUA.ORGNVATER SHUT OFF AND TURN ON PROCEDURES.ASPX
- 17. PROPOSED WATERLINE MATERIALS SHALL BE PVC PIPE MEETING AWWA C-900: DR18 REQUIREMENTS (6" -12") OR DUCTILE IRON PIPE MEETING AWWA C-150 REQUIREMENTS (6" -48").
- 18. ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS. THE JOINT RESTRAINT REQUIREMENTS SHOULD BE DELINEATED WITHIN A JOINT RESTRAINT TABLE.
- 19. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2465.
- 20. ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #9.
- 21. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED.
- 22. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND EMS AT THE END OF EACH SANITARY SEWER SERVICE.
- 23. CONTRACTOR SHALL PROVIDE THE PROPOSED HYDRO TESTING PLANS TO THE WUA INSPECTORS FOR APPROVAL PRIOR TO BEGINNING TESTING OPERATIONS.
- 24. AT UTILITY CROSSINGS, WHERE LESS THAN 18" OF VERTICAL SEPARATION FROM STORM DRAIN PIPING OR STRUCTURES IS PROPOSED, LEAN FILL CONSTRUCTION (PER SECTION 207 OF THE STANDARD SPECIFICATIONS) SHALL BE USED TO PROTECT THE WATER OR SEWER LINE. LEAN FILL SHALL EXTEND A PERPENDICULAR DISTANCE OF 5 FEET ON EACH SIDE OF THE STORM PIPE OR STRUCTURE.
- 25. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- 26. REMOVAL OF EXISTING CURB & GUTTER AND SIDEWALKS SHALL BE TO THE NEAREST JOINT.
- 27. ANY DAMAGE TO THE EXISTING CURB & GUTTER, PAVEMENT, SIDEWALKS, STRIPING, AND SIGNAGE DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 28. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- 29. CURB AND GUTTER, SIDEWALKS, AND DRIVE PADS SHALL MATCH THE LINE AND GRADE OF ABUTTING EXISTING AREAS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
- 30. THE SUBGRADE PREP SHALL EXTEND ONE FOOT BEYOND THE FREE EDGE OF NEW CURB AND GUTTER AND SIDEWALK.
- 31. CONTRACTOR TO TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, REMOVE 2 FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE GREATER THAN 50 OR CONTACT THE ENGINEER IMMEDIATELY SO THE PAVEMENT SECTION CAN BE MODIFIED.

GENERAL NOTES(cont.)

- 32. AT ALL PAVEMENT REMOVAL AND REPLACEMENTS, SAW-CUT EDGES SHALL BE STRAIGHT AND CLEAN, AND LONGITUDINAL JOINTS SHALL NOT BE PLACED WITHIN WHEEL PATHS. PATCHES SHALL BE REGULAR AND SQUARE OR RECTANGULAR, WITH FOUR STRAIGHT SIDES. FINISHED PAVEMENT SURFACE SHALL BE FLUSH WITH EXISTING PAVEMENT SURFACE, WITH NO SPILLOVER OF ASPHALT OR TACK COAT. CARE MUST BE TAKEN TO AVOID DAMAGING THE INTEGRITY OR APPEARANCE OF SURROUNDING PAVEMENTS; IF DAMAGED, THE ENTIRE SURFACE PATCH MUST BE EXPANDED TO COVER DAMAGES.
- 33. CONTRACTOR WILL ENSURE THE ASPHALT HAS A SMOOTH UNIFORM EDGE WHEN REMOVING AND REPLACING CURB AND GUTTER. IF THE ASPHALT EDGE IS NOT SMOOTH AND UNIFORM, CONTRACTOR WILL SAW CUT AND REPLACE A ONE-FOOT STRIP OF ASPHALT ALONG THE FULL SECTION BEING REPLACED; REFER TO C.O.A. STANDARD DRAWING# 2465 WITH THE APPROPRIATE PAVING SECTION BASED ON ROADWAY CLASSIFICATION.
- 34. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHOULD NOTIFY THE TRANSIT DEPARTMENT OF ANY IMPACT THE PROPOSED PROJECT WILL HAVE ON THE TRANSIT SYSTEM SUCH AS CAUSING A DETOUR, OR CAUSE THE CLOSING OR RELOCATION OF A BUS STOP. THE CONTACT PERSON IS DOUGLAS GOFF, OFFICE PHONE 505-724-3137, CELL PHONE 505-206-0151, AND E-MAIL DGOFF@CABQ.GOV.
- 35. CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
- 36. CONTRACTOR SHALL DETERMINE IN ADVANCE OF CONSTRUCTION IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
- 37. PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- 38. EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND AS SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.
- 39. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. CONTRACTOR SHALL FIELD-VERIFY THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES.
- 40. CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- 41. CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE IS TO BE SUPPORTED AT A MAXIMUM SPACING OF FIFTEEN (15) FEET. CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.
- 42. ALL FINAL BACKFILL FOR TRENCHES WITHIN THE COA RIGHT-OF-WAY SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD **DRAWING NUMBER 2465.**
- 43. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS TO PREVENT ANY EXCAVATED MATERIAL BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- 44. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 45. CONTRACTOR SHALL CONDUCT ALL WORK IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC.
- 46. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.

GENERAL NOTES(cont.)

- 47. IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING **EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE** CONSTRUCTION ENGINEER SHALL NOTIFY THE COUNTY OFFICE OF THE MEDICAL EXAMINER AT (505)272-3053. IF THE MEDICAL EXAMINER DETERMINES THAT HUMAN REMAINS ARE NOT PRESENT, THE CONSTRUCTION ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT 827-6320.
- 48. IF OBJECTS OF HISTORICAL, ARCHAEOLOGICAL, PALEONTOLOGICAL AND OTHER OBJECTS OF ANTIQUITY ARE ENCOUNTERED, CONTRACTOR SHALL CEASE OPERATIONS AND IMMEDIATELY NOTIFY OWNER AND PROJECT ENGINEER.

GENERAL PAVING + GRADING NOTES

- 1. UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED AND ARE PRESENTED BASED UPON PRELIMINARY INFORMATION AVAILABLE TO CYPRESS CIVIL DEVELOPMENT. UTILITY LOCATIONS AS SHOWN ARE NOT INTENDED TO BE EXACT OR COMPLETE AND CYPRESS CIVIL DEVELOPMENT DOES NOT ACCEPT LIABILITY OR RESPONSIBILITY FOR ANY INACCURACIES IN THE UTILITY LOCATIONS OR ANY UTILITY RELOCATIONS THAT MAY BE NECESSARY. PRIOR TO EXCAVATION, NEW MEXICO STATUTES REQUIRE THAT ANYONE WHO INTENDS TO EXCAVATE MUST PROVIDE TWO FULL WORKING DAYS NOTICE TO THE OWNERS OF ALL UTILITIES WITHIN THE PROJECT AREA. EXCAVATORS SHOULD CONTACT "NEW MEXICO 811 DAMAGE AND PREVENTION CENTER" @ 1-800-321-ALERT (2537) TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATION. SATURDAYS, SUNDAYS, AND STATE HOLIDAYS ARE NOT CONSIDERED WORKING DAYS. ALSO BE ADVISED THAT THERE MAY BE OTHER UTILITIES IN THE PROJECT AREA THAT ARE NOT MEMBERS OF "NEW MEXICO 811 DAMAGE AND PREVENTION CENTER". THE CONTRACTOR IS RESPONSIBLE TO POTHOLE ALL UTILITIES (SHOWN OR NOT SHOWN ON THE PLANS) MARKED BY NEW MEXICO 811 PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.
- 2. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENT
- 3. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- 4. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN AN ACCESSIBLE LOCATION ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND MAINTENANCE OF EXISTING IMPROVEMENTS AND VEGETATION IN THE WORK AREA. PAVEMENT, CURBS, AND ANY OTHER OBSTRUCTION DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.
- 6. UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRICADES, ETC. SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PER COA STANDARD SPECIFICATION SECTION 19.
- 7. IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.
- 8. CONTRACTOR TO EXHIBIT EXTREME CAUTION WHEN EXCAVATING TO AVOID DAMAGING EXISTING UTILITY LINES IN AND AROUND THE AREA OF WORK. UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE AND NOT COMPLETE BUT ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME THIS PLAN WAS DESIGNED.
- 9. CONTRACTOR SHALL ADJUST BOTH EXISTING AND NEW WATER VALVES. BOX COVERS. WATER METER BOXES, SANITARY SEWER MANHOLE AND CLEAN-OUT RING AND COVERS, TELEPHONE AND ELECTRIC MANHOLE RING AND COVERS AND ANY OTHER UTILITY INFRASTRUCTURE TO THE NEW FINISHED GRADE.
- PROJECT EARTHWORK (UNADJUSTED)(APPROXIMATE): TOTAL FILL COMPOSITE TOTAL CUT 11,800 CY (C) 12,992 CY 1,192 CY IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE HIS OWN EARTHWORK QUANTITIES AND SUBMIT HIS BID THEREON. EARTHWORK QUANTITIES SHOWN HEREON ARE ESTIMATED FOR PERMITTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING OR PAYMENT QUANTITIES.
- 11. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES, INCLUDING EXCAVATION, BORROW EMBANKMENT, SHRINK OR SWELL, GROUND COMPACTION, HAUL AND ANY OTHER ITEMS AFFECTING THE BID TO COMPLETE THE GRADING TO THE ELEVATIONS SHOWN ON THESE PLANS AND TO BASE THE BID SOLELY UPON HIS OWN CALCULATED QUANTITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER/DEVELOPER PRIOR TO CONSTRUCTION OF ANY MAJOR DISCREPANCIES ON THE PLANS. ALL GRADE ADJUSTMENTS SHALL BE APPROVED IN WRITING BY THE OWNER PRIOR TO MAKING ANY CHANGES.
- 12. THE PERMITTEE SHALL NOTIFY THE CITY OF ALBUQUERQUE WHEN THE GRADING OPERATION IS READY FOR FINAL GRADING INSPECTION. FINAL GRADING APPROVAL SHALL NOT BE GIVEN UNTIL ALL WORK. INCLUDING INSTALLATION OF ALL DRAINAGE IMPROVEMENTS, UTILITY TRENCHES ARE BACKFILLED, PRIVATE PAVING AND CURB, PERMANENT PROTECTIVE DEVICES, ALL EROSION CONTROL MEASURES HAVE BEEN COMPLETED, AND ALL CONDITIONS OF PERMITS ARE COMPLETED.
- 13. IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING CYPRESS CIVIL AT 520-499-2456.

GENERAL PAVING + GRADING NOTES (cont.)

- 14. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH SURFACE AND UNIFORM CROSS-SECTION. THE SLOPE OF THE EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS SHOWN ON THE PLANS AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPES SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- 15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, HAUL AND APPLY ALL WATER REQUIRED FOR COMPACTION AND FOR THE CONTROL OF DUST FROM THE CONSTRUCTION ACTIVITY. THE COST THEREOF IS TO BE INCLUDED IN THE GRADING CONSTRUCTION PRICE.
- 16. THE GRADING CONTRACTOR SHALL EXCAVATE AND REMOVE THE SOIL BENEATH ALL DECOMPOSED GRANITE AREAS SO THAT THE FINISHED SURFACE OF THE DECOMPOSED GRANITE WILL MATCH THE FINISHED SURFACE ELEVATION AS CALLED OUT ON THESE PLANS. WATER HARVESTING AREAS SHALL BE KEPT LOW TO ACHIEVE FULL DEPTH OF WATER HARVESTING TO THE FINISHED SURFACE OF THE DECOMPOSED GRANITE.
- 17. CYPRESS CIVIL HEREBY CERTIFIES THAT ALL FINISHED GRADED AND PAVED AREAS CONTAINED WITHIN THIS DEVELOPMENT ARE DESIGNED WITH SLOPES OF AT LEAST 0.5%. CYPRESS CIVIL FURTHER CERTIFIES THAT THE PROPOSED DESIGN PROVIDES POSITIVE DRAINAGE THROUGHOUT THE DEVELOPMENT EXCEPT WITHIN DETENTION/RETENTION AREAS OR WATER HARVESTING AREAS SPECIFIED WITHIN THE APPROVED DRAINAGE ANALYSIS FOR THIS PROJECT.
- 14. ALL ELEVATIONS ARE AT FINISH SURFACE OF PROPOSED ASPHALT (P). ADD 0.5' FOR THE ADJACENT TOP OF CURB/CONCRETE (TC/C) **ELEVATION UNLESS OTHERWISE SHOWN.**
- 15. CURB RADII ARE MEASURED TO FRONT FACE OF CURB
- 16. ALL DIMENSIONS FOR PARKING AREA ACCESS LANES AND PARKING SPACES AS SHOWN ON THE PLAN ARE MEASURED AT THE GUTTER
- 17. AGGREGATE BASE COURSE SHALL CONFORM TO COA STANDARD SPECIFICATION SECTION 302.
- 18. ASPHALTIC CONCRETE SHALL CONFORM TO COA STANDARD SPECIFICATION SECTION 116.
- 19. ALL CONCRETE SHALL CONFORM TO THE MINIMUM COMPRESSIVE STRENGTH AS SPECIFIED IN TABLE 101.C OF SECTION 101, UNLESS OTHERWISE SPECIFIED.
- 20. PARKING AREA PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION. THE PAINT SHALL BE WHITE UNLESS OTHERWISE INDICATED OR AS REQUIRED BY THE MUTCD.
- 21. THE APPROVED GRADING AND DRAINAGE PLAN IS THE ONLY ACCEPTABLE CONSTRUCTION PLAN ONSITE. THE CONTRACTOR MAY NOT USE ANY OTHER PLANS, FOR CONSTRUCTION PURPOSES. THE CONTRACTOR MAY ASK THE COA INSPECTOR TO CONSULT WITH THE OTHER APPROVED PLANS FOR ADDITIONAL INFORMATION OR DETAILS THAT MIGHT NOT BE INCLUDED ON THE APPROVED GRADING AND DRAINAGE PLAN BUT NEEDED FOR COMPLETION OF WORK.
- 26. THE CONTRACTOR IS NOT PERMITTED TO MAKE AN AUTONOMOUS DECISION TO CARRY OUT CONSTRUCTION FIELD CHANGES WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND THE CITY OF ALBUQUERQUE DEVELOPMENT REVIEW SERVICES DEPARTMENT.
- 27. THE PERMITTEE SHALL NOTIFY THE CITY OF ALBUQUERQUE WHEN THE GRADING OPERATION IS READY FOR FINAL GRADING INSPECTION. FINAL GRADING APPROVAL SHALL NOT BE GIVEN UNTIL ALL WORK, INCLUDING INSTALLATION OF ALL DRAINAGE IMPROVEMENTS, UTILITY TRENCHES ARE BACKFILLED, PRIVATE PAVING AND CURB PERMANENT PROTECTIVE DEVICES, ALL EROSION CONTROL MEASURES HAVE BEEN COMPLETED, AND ALL CONDITIONS OF PERMITS ARE COMPLETED.

FOR AS-BUILT ONLY:



ARCHITECTURE / DESIGN / INSPIRATION

DEKKER PERICH

7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109 505.761.9700 / DPSDESIGN.ORG

ENGINEER ICIVIL DEVELOPMEN

suite #110 tucson, arizona 85719 ph: 520.499.2456 e: kmhall@cypresscivil.com

2030 east speedway boulevard

ENGINEER



PROJECT

100% CONSTRUCTION DOCUMENTS

04/06/2018 ADDENDUM 002: ALL SHEETS REISSUED DRAWN BY **KMH**

04/06/2018 DATE PROJECT NO

DRAWING NAME

REVIEWED BY

GRADING AND DRAINAGE NOTES

SHEET NO

14-0701

EARTHWORK/MATERIALS TESTING + CERTIFICATION

- 1. A GEOTECHNICAL ENGINEERING INVESTIGATION, INCLUDING RECOMMENDATIONS FOR GRADING PROCEDURES HAS BEEN PREPARED BY VANN ENGINEERING INC. ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN SAID REPORT, DATED DECEMBER 20,2017, PROJECT NO. 25592.
- 2. THE CONTRACTOR SHALL RETAIN THE SERVICES OF, AND FACILITATE THE WORK OF, AN INDEPENDENT ENGINEERING TESTING LABORATORY ACCEPTABLE TO PROVIDE THE CONSTRUCTION TESTING OF THE PROJECT EARTHWORK, ASPHALT PAVEMENT AND CIVIL CONCRETE. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT INITIAL SITE CONDITIONS CONFORM WITH THE PLANS AND SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES OBSERVED SHOULD ANY SOIL CONDITION ON THE SITE BE SUSPECT OF DETRIMENTAL CHARACTERISTICS. THE CONTRACTOR SHALL BE NOTIFIED OF CONCERNS AT LEAST TWENTY-FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN ON THE AFFECTED AREA.
- 3. DURING THE COURSE OF CONSTRUCTION, TEST RESULTS SHALL BE SUBMITTED TO THE CONTRACTOR WHICH INDICATE IF WORK IS BEING DONE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.

TYPICAL SLOPE TREATMENT				
SLOPE GRADIENT	TREATMENT			
3:1 OR FLATTER	REVEGETATED WITH NATIVE SPECIES OR PROVIDE OTHER GROUND COVERS SUCH AS NETTING OR CRUSHED ROCK			
2:1 TO 3:1	HAND-PLACED RIP RAP OVER FILTER FABRIC			
1:1 TO 2:1	1:1 TO 2:1 GROUTED OR WIRE-TIED RIP RAP			
1:1 OR STEEPER	STABILITY ANALYSIS OR RETAINING WALL DESIGNED BY STRUCTURAL ENGINEER			

NOTES:

- SLOPE GRADIENTS ARE HORIZONTAL TO VERTICAL
 FINAL SLOPE TREATMENT SHALL BE AS PER THIS TABLE UNLESS
 OTHERWISE NOTED ON THIS PLAN OR WITHIN THE
- GEOTECHNICAL REPORT.
 SEE RIP RAP NOTES FOR SPECIFICATIONS.

RIP RAP NOTES

- 1. RIP RAP MATERIAL SHALL CONFORM TO COA STANDARD SPECIFICATION SECTION 109. RIP RAP MATERIAL SHALL BE WELL GRADED, VARYING IN SIZE FROM 4 TO 8 INCHES (d50=6"). THE RIP RAP LAYER SHALL BE 12 INCHES (2d50) MINIMUM THICKNESS.
- 2. THE GROUT FOR THE RIP RAP SHALL CONFORM TO COA STANDARD SPECIFICATION SECTION 106. THE TOTAL GROUT AND RIP RAP LAYER SHALL BE A MINIMUM THICKNESS OF 2.5d50 (d50=6"). GROUT THICKNESS SHALL BE EQUAL TO 1.0d50 AND RIP RAP ROCK SHALL BE EMBEDDED TO A DEPTH OF 0.5d50.
- 3. FINISH GRADE ("FG") CALLOUTS ARE TO TOP OF RIP RAP, IN APPLICABLE AREAS.

SWPPP NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FULLY COMPLY WITH THE NEW MEXICO POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN PREPARED FOR THIS PROJECT.
- 2. ALL REMAINING DISTURBED AREAS NOT OTHERWISE ALREADY TREATED SHALL BE STABILIZED IN A FINAL MANNER IN CONFORMANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT. A NOTICE OF TERMINATION TO CLOSE OUT THE SWPPP'S NOTICE OF INTENT CANNOT BE FILED WITH NEW MEXICO ENVIRONMENT DEPARMENT UNTIL THESE FINAL STABILIZATION MEASURES ARE APPLIED.
- 3. THE CONTRACTOR SHALL REMOVE THE FINE MATERIALS FROM THE BOTTOM OF ANY DETENTION/RETENTION BASIN AND SCARIFY THE BASIN BOTTOM ONCE THE CONSTRUCTION ACTIVITIES ARE COMPLETED IN ORDER TO REMOVE ANY FINE MATERIAL BUILD UP CAUSED BY CONSTRUCTION AND TO RESTORE SOIL PERCOLATION. INSTALL BMP'S AT THE BASIN INLET(S) TO PREVENT THE FINES FROM ENTERING THE BASIN.

SURVEY NOTES

- BEARINGS ARE IN NEW MEXICO STATE PLANE GRID BEARINGS -CENTRAL ZONE. (NAD 83)
- VERTICAL DATUM IS BASED ON THE ALBUQUERQUE CONTROL SURVEY MONUMENT "NM-448-C1" HAVING A PUBLISHED ELEVATION OF 5076.696' (NAVD 1988).
- 3. THE SURVEY FOR THIS PROJECT WAS PERFORMED BY: SURV TEK, INC. 9384 VALLEY VIEW DRIVE, N.W. ALBUQUERQUE, NEW MEXICO 87114 ATTN: MR. RUSS P. HUGG, NM PLS #9750 PH: (505) 987-3366
- 4. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO PROVIDE THE CONSTRUCTION LAYOUT. THE SURVEYOR SHALL VERIFY THE KNOWN BENCHMARK AND COMPARE THE SITE CONDITIONS WITH THE PLANS AND SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES OBSERVED SHOULD ANY BENCHMARK, GRADE OR DESIGN INDICATED ON THE PLANS BE SUSPECT. THE OWNER SHALL BE NOTIFIED OF SAID BENCHMARK, GRADE OR DESIGN PROBLEM AT LEAST TWENTY-FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN IN THE AFFECTED AREA.
- 5. UPON COMPLETION OF THE WORK, THE CONTRACTOR AND HIS SURVEYOR SHALL CERTIFY IN WRITING TO THE OWNER THAT THE PROJECT CIVIL ENGINEERING IMPROVEMENTS WERE STAKED AND BUILT IN SUBSTANTIAL CONFORMANCE TO THE LINES AND GRADES SHOWN. UNLESS NOTED OTHERWISE, SUBSTANTIAL CONFORMANCE SHALL MEAN THAT BUILDING SITES HAVE BEEN CONSTRUCTED TO WITHIN 0.10± FEET OF FINISH BUILDING PAD ELEVATIONS AS DESIGNED BY THE ENGINEER. PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10± FEET OF FINISH GRADE AS DESIGNED BY THE ENGINEER. SITE FEATURES SHALL BE WITHIN 0.25 FEET OF SPECIFIED POSITION.

ARCHITECTURE / DESIGN / INSPIRATION

DEKKER PERICH SABATINI

7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109 505.761.9700 / DPSDESIGN.ORG

ENGINEER

CYPRESS CIVIL DEVELOPMENT

2030 east speedway boulevard suite #110 tucson, arizona 85719 ph: 520.499.2456 e: kmhall@cypresscivil.com

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PROJECT

SENERATIONS
AT WEST MESA
5710 Avalon Road, NW

100% CONSTRUCTION DOCUMENTS

△ 04/06/2018 ADDENDUM 002:

DRAWN BY

REVIEWED BY

ALL SHEETS REISSUED

DRAWN BY

JR

 REVIEWED BY
 KMH

 DATE
 04/06/2018

 PROJECT NO
 14-0701

DRAWING NAME

FOR AS-BUILT ONLY:

GRADING AND DRAINAGE NOTES

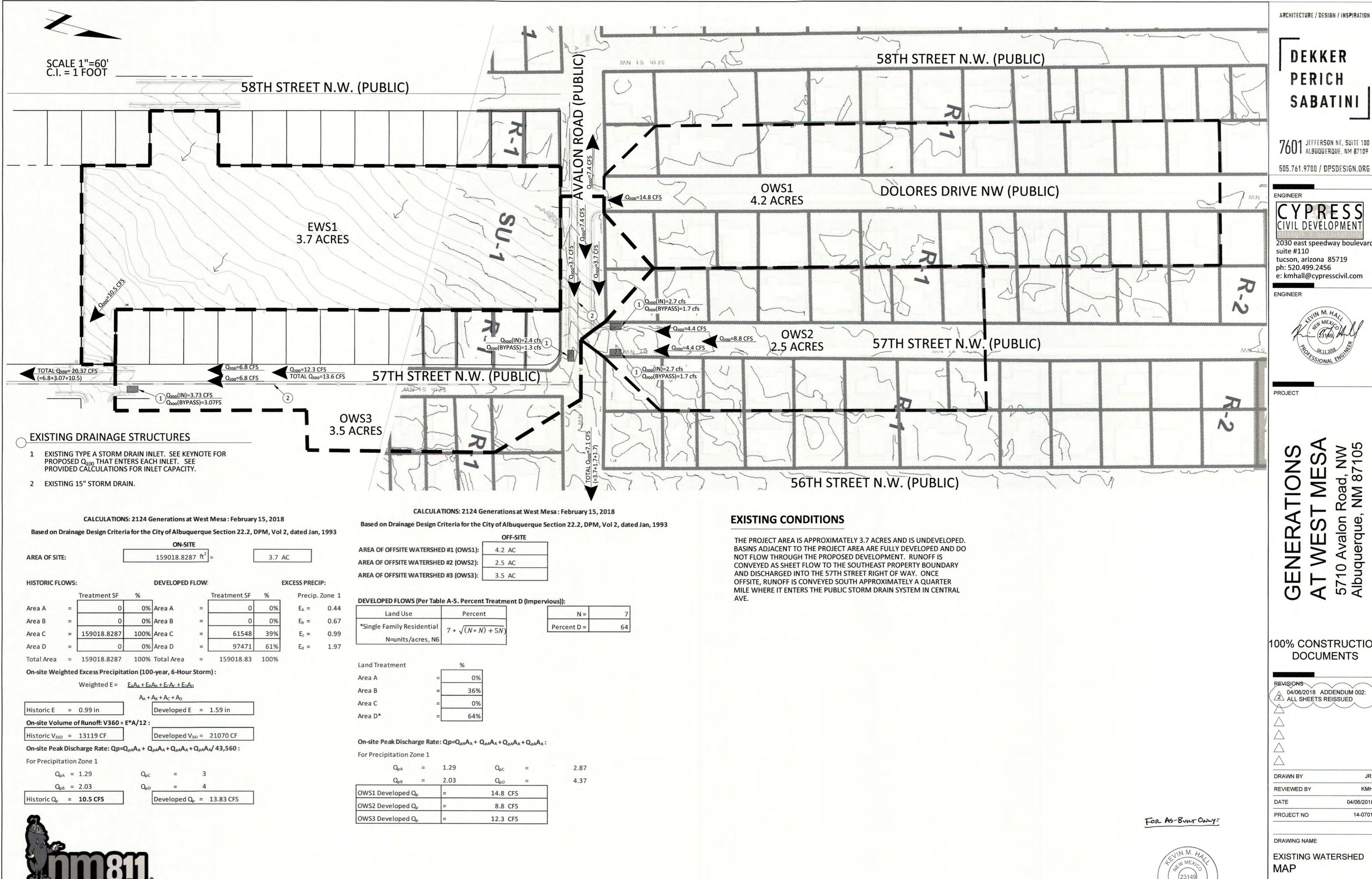
SHEET NO

C003



EXCAVATORS/CONTRACTORS

CHOOSE OPTION 2



Call before you dig. FOR LOCATE REQUESTS CALL: 811 OR 1-800-321-ALERT (2537)

EXCAVATORS/CONTRACTORS

CHOOSE OPTION 2

DEKKER PERICH SABATINI

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100% CONSTRUCTION **DOCUMENTS**

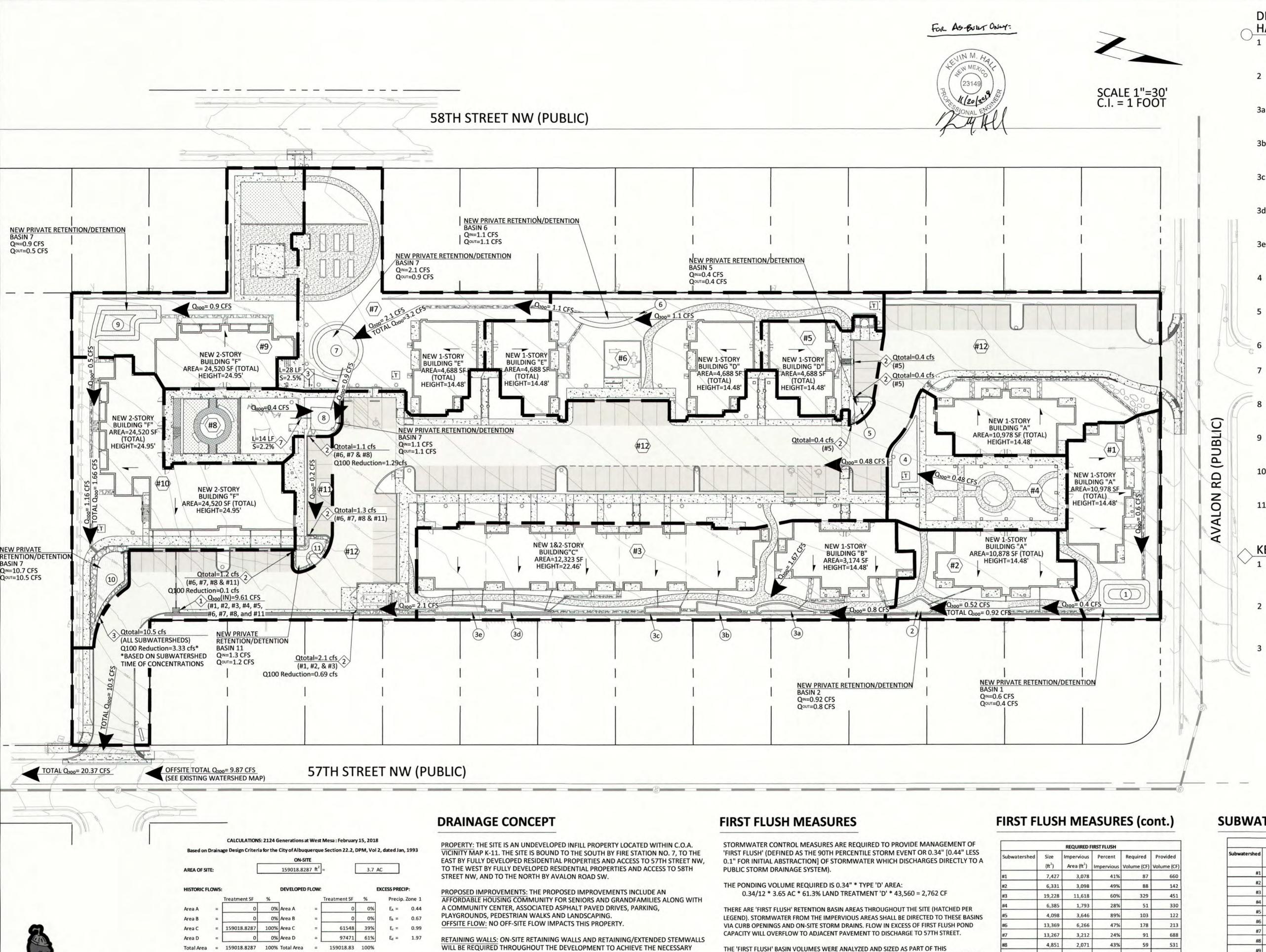
04/06/2018 ADDENDUM 002: ALL SHEETS REISSUED

DRAWN BY **REVIEWED BY** 04/06/2018 DATE 14-0701

DRAWING NAME

EXISTING WATERSHED MAP

SHEET NO



GRADE TRANSITIONS. NO PERIMETER PROPERTY LINE RETAINING WALLS WILL EXCEED

LOCATIONS, TOP OF WALL / BOTTOM OF WALL ELEVATIONS) ARE PROVIDED ON SHEETS

CO11 THRU CO13 OF THIS PLAN. RETAINING WALL STRUCTURAL DETAILS ARE PROVIDED

LANDSCAPING AND RETENTION PONDS SIZED TO RETAIN THE FIRST FLUSH VOLUME ARE

PROVIDED THROUGHOUT THE PROPERTY. LIMITED ON-SITE UNDERGROUND STORM

ON-SITE POND LOCATIONS (WHERE CLEAR SURFACE FLOWPATHS ARE NOT AVAILABLE)

THE SITE WILL THEN DISCHARGE TO 57TH STREET (SEE SUPPLEMENTAL CALCULATIONS

DRAIN WILL BE PROVIDED TO DIRECT INDIVIDUAL BUILDING ROOF DISCHARGE TO

FOR STREET CAPACITY ANALYSIS) TO ENTER THE EXISTING PUBLIC STORM DRAIN

4' RETAINING AT THE GREATEST GRADE CHANGE. RETAINING WALL DESIGN (WALL

SITE DISCHARGE: FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, DEPRESSED

WITHIN THE BUILDING PLAN PERMIT SET.

SYSTEM.

On-site Weighted Excess Precipitation (100-year, 6-Hour Storm):

storic E = 0.99 in

Historic V₃₆₀ = 13119 CF

 $Q_{pA} = 1.29$

 $Q_{pB} = 2.03$

Historic Q_p = 10.5 CFS

For Precipitation Zone 1

Know what's below

CHOOSE OPTION 2

Call before you dig.

811 OR 1-800-321-ALERT (2537)

FOR LOCATE REQUESTS CALL:

EXCAVATORS/CONTRACTORS

On-site Volume of Runoff: V360 = E*A/12 :

Weighted E = $E_AA_A + E_BA_B + E_CA_C + E_DA_D$

On-site Peak Discharge Rate: Qp=QpAA+ QpAA+QpAA+QpAA+ QpAAA/ 43,560:

Developed E = 1.59 in

Developed V₃₆₁ = 21070 CF

 $Q_{pC} = 2.87$

veloped Q_p = 13.83 CFS

Reduction $Q_p = (3.33 \text{ CFS})$

DEPRESSED WATER

HARVESTING/BASIN AREA

1 TOTAL VOLUME = 660 CF TOTAL PONDING DEPTH = 3' MAX 3:1 SIDE SLOPES

MAX 3:1 SIDE SLOPES

2 TOTAL VOLUME = 142 CF
TOTAL PONDING DEPTH = 9"

MAX 3:1 SIDE SLOPES

3a TOTAL VOLUME = 88 CF
TOTAL PONDING DEPTH = 9"

MAX 3:1 SIDE SLOPES

3b TOTAL VOLUME = 95 CF
TOTAL PONDING DEPTH = 9"

MAX 3:1 SIDE SLOPES

3c TOTAL VOLUME = 69 CF TOTAL PONDING DEPTH = 9" MAX 3:1 SIDE SLOPES

3d TOTAL VOLUME = 89 CF TOTAL PONDING DEPTH = 9"

3e TOTAL VOLUME = 109 CF TOTAL PONDING DEPTH = 9" MAX 3:1 SIDE SLOPES

MAX 3:1 SIDE SLOPES

4 TOTAL VOLUME = 330 CF TOTAL PONDING DEPTH = 6" MAX 3:1 SIDE SLOPES

5 TOTAL VOLUME = 122 CF TOTAL PONDING DEPTH = 1.0' MAX 3:1 SIDE SLOPES

6 TOTAL VOLUME = 213 CF TOTAL PONDING DEPTH = 1.0'

7 TOTAL VOLUME = 688 CF TOTAL PONDING DEPTH = 1.0'

MAX 3:1 SIDE SLOPES

8 TOTAL VOLUME = 531 CF TOTAL PONDING DEPTH = 1.5 ' MAX 3:1 SIDE SLOPES

9 TOTAL VOLUME = 957 CF TOTAL PONDING DEPTH = 2' MAX 3:1 SIDE SLOPES

10 TOTAL VOLUME = 1,177 CF TOTAL PONDING DEPTH = 1.89' 1:1 MAX GROUTED RIP RAP SIDE SLOPES

11 TOTAL VOLUME = 678 CF TOTAL PONDING DEPTH = 2.5' 1:1 MAX GROUTED RIP RAP SIDE SLOPES

KEYNOTES

1 NEW SINGLE "D" CATCH BASIN WITH CITY OF ALBUQUERQUE GRATE. SEE KEYNOTE FOR. SEE PROVIDED CALCULATIONS FOR INLET CAPACITY.

2 NEW 3' WIDE CURB OPENING. SEE KEYNOTE FOR PROPOSED Q₁₀₀ CONVEYED THROUGH CURB OPENING. SEE PROVIDED WEIR CALCULATIONS FOR CURB CUT CAPACITY.

3 NEW 10' WIDE CURB OPENING. SEE KEYNOTI FOR PROPOSED Q₁₀₀ CONVEYED THROUGH CURB OPENING. SEE PROVIDED WEIR CALCULATIONS FOR CURB CUT CAPACITY.

LEGEND

Q100= CONCENTRATION POINT
WATERSHED BOUNDARY
PROJECT AREA

#1 FLOW DIRECTION

SUB WATERSHED DESIGNATOR

SUBWATERSHED Qp

11,526

13,334

2,148

57,056

101,963 48,844

DEVELOPMENT. SEE TABLE PROVIDED AND SUPPLEMENTAL SUBWATERSHED MAP FOR MORE

THE CUMULATIVE AREA SHOWN HATCHED

IS APPROXIMATELY 5,949 CF

FOR FIRST FLUSH PONDING

4,184

8,183

1,697

48,639

36%

61%

79%

85%

232

1,378

2,762

48

*CATCH BASIN

SUBWATERSHED DEVELOPED Qp							
Subwatershed	Size (ft2)	Impervious Area (ft2)	Percent Impervious (%)	Pervious Pervious (%)	CFS		
#1	7,427	3,078	41%	59%	0.60		
#2	6,331	3,098	49%	51%	0.52		
#3	19,228	11,618	60%	40%	1.67		
#4	6,385	1,793	28%	72%	0.48		
#5	4,098	3,646	89%	11%	0.40		
#6	13,369	6,266	47%	53%	1.10		
#7	13,267	3,212	24%	76%	0.98		
#8	4,851	2,071	43%	57%	0.39		
#9	11,526	4,184	36%	64%	0.90		
#10	13,334	8,183	61%	39%	1.16		
#11	2,148	1,688	79%	21%	0.20		
#12	57,056	48,639	85%	15%	5.43		
TOTAL	159,019				13.83		

SABATINI —

ARCHITECTURE / DESIGN / INSPIRATION

DEKKER

PERICH

7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109 505.761.9700 / DPSDESIGN.ORG

CYPRESS

CIVIL DEVELOPMENT
strength + sustainability
2030 east speedway boulevard
suite #110

tucson, arizona 85719 ph: 520.499.2456 e: kmhall@cypresscivil.com

ENGINEER



PROJECT

F WEST MESA

10 Avalon Road, NW

uquerque, NM 87105

100% CONSTRUCTION DOCUMENTS

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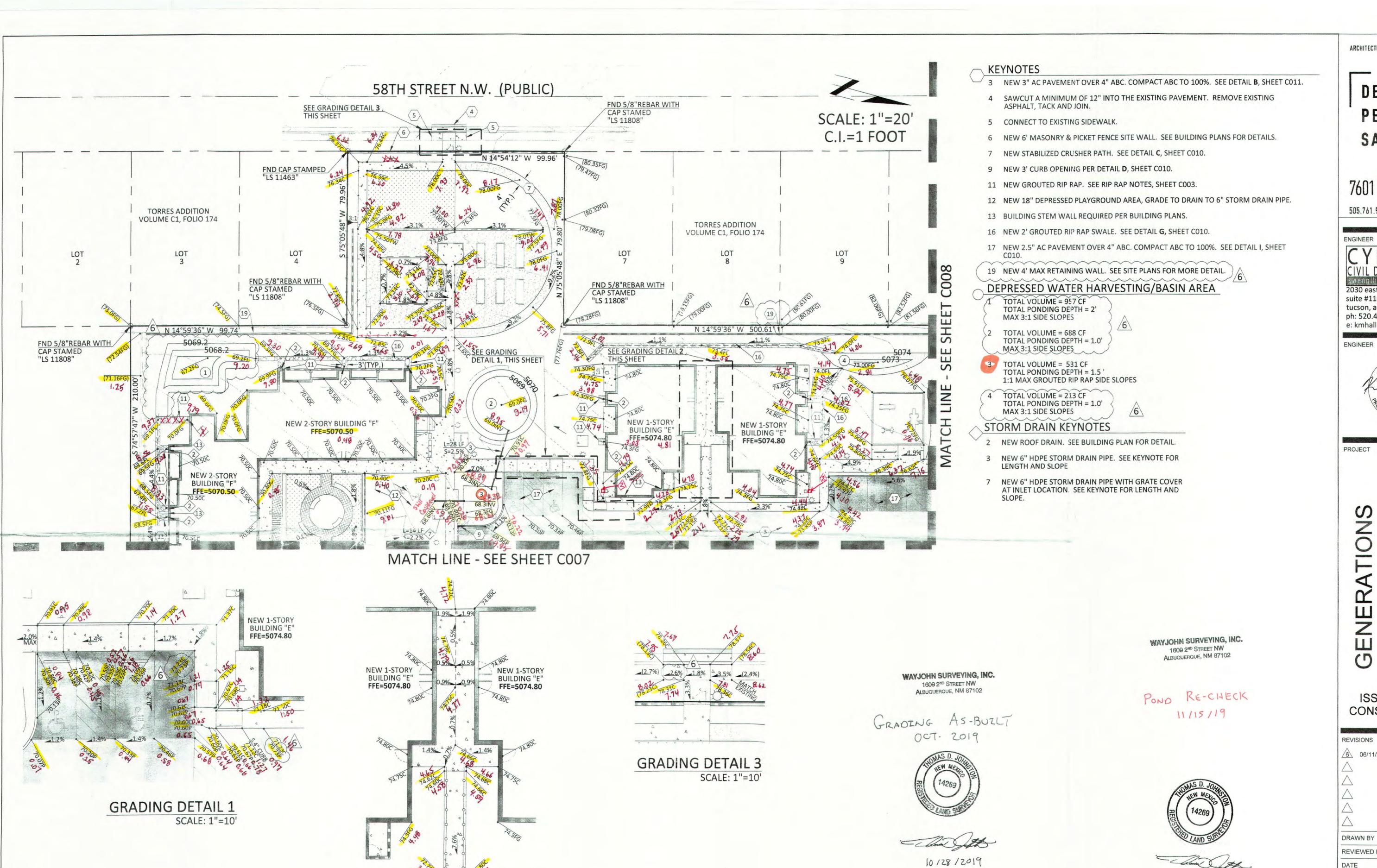
REVISIONS
04/06/2018 ADDENDUM 002:
ALL SHEETS REISSUED

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AWN BY	JR
/IEWED BY	KMH
ΓE	04/06/201
DJECT NO	14-070

DRAWING NAME

PROPOSED WATERSHED MAP

SHEET NO



GRADING DETAIL 2

Know what's below. Call before you dig.

FOR LOCATE REQUESTS CALL: 811 OR 1-800-321-ALERT (2537) EXCAVATORS/CONTRACTORS CHOOSE OPTION 2

SCALE: 1"=10'

FOR AS-BUILT ONLY:

11/15/19



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ARCHITECTURE / DESIGN / INSPIRATION

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ISSUED FOR CONSTRUCTION

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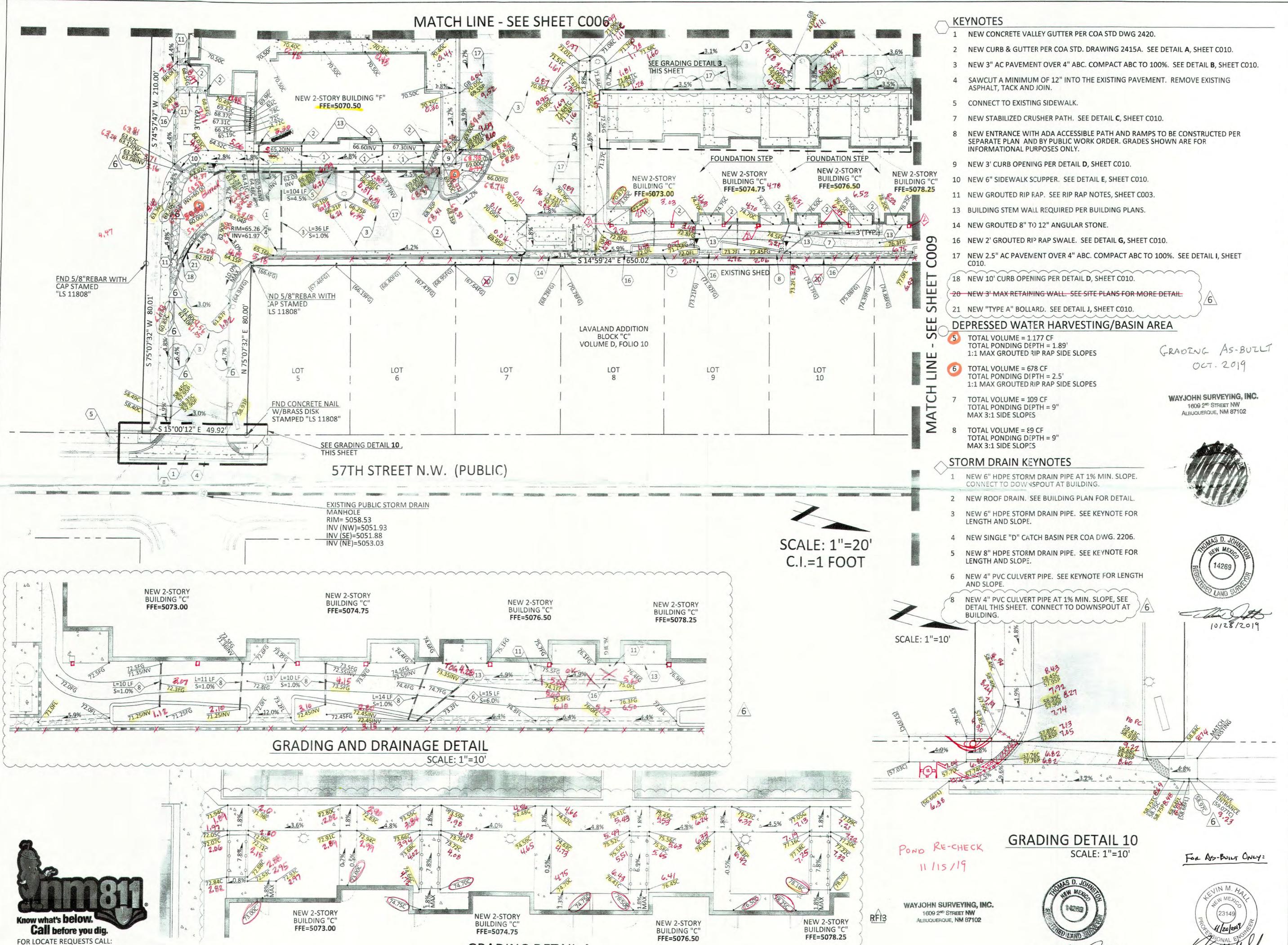
REVIEWED BY **KMH** DATE PROJECT NO

DRAWING NAME

GRADING AND DRAINAGE GRADING + DRAINAGE (\$W)

SHEET NO Done





GRADING DETAIL 4

SCALE: 1"=10"

811 OR 1-800-321-ALERT (2537) EXCAVATORS/CONTRACTORS

CHOOSE OPTION 2

ARCHITECTURE / DESIGN / INSPIRATION

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CIVIL DEVELOPMENT strength + sustainability
2030 east speedway boulevard suite #110

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PROJECT

GENERATIONS
AT WEST MESA
5710 Avalon Road, NW
Albuquerque, NM 87105

ISSUED FOR CONSTRUCTION

REVISIONS

ORAWN BY

 DRAWN BY
 JMR

 REVIEWED BY
 KMH

 DATE
 06/11/2018

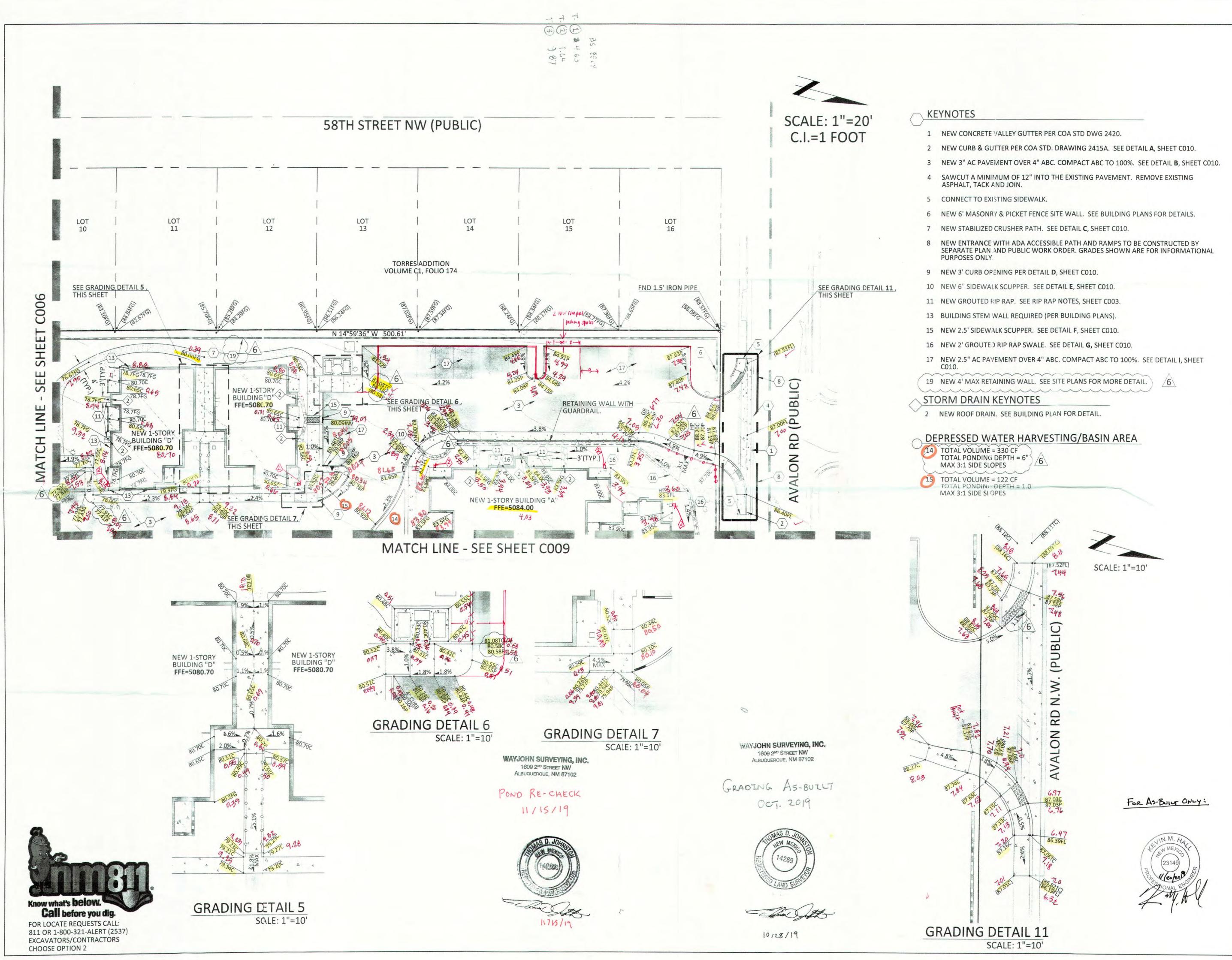
 PROJECT NO
 14-0701

DRAWING NAME

GRADING AND DRAINAGE
GRADING +
DRAINAGE (SE)

SHEET NO

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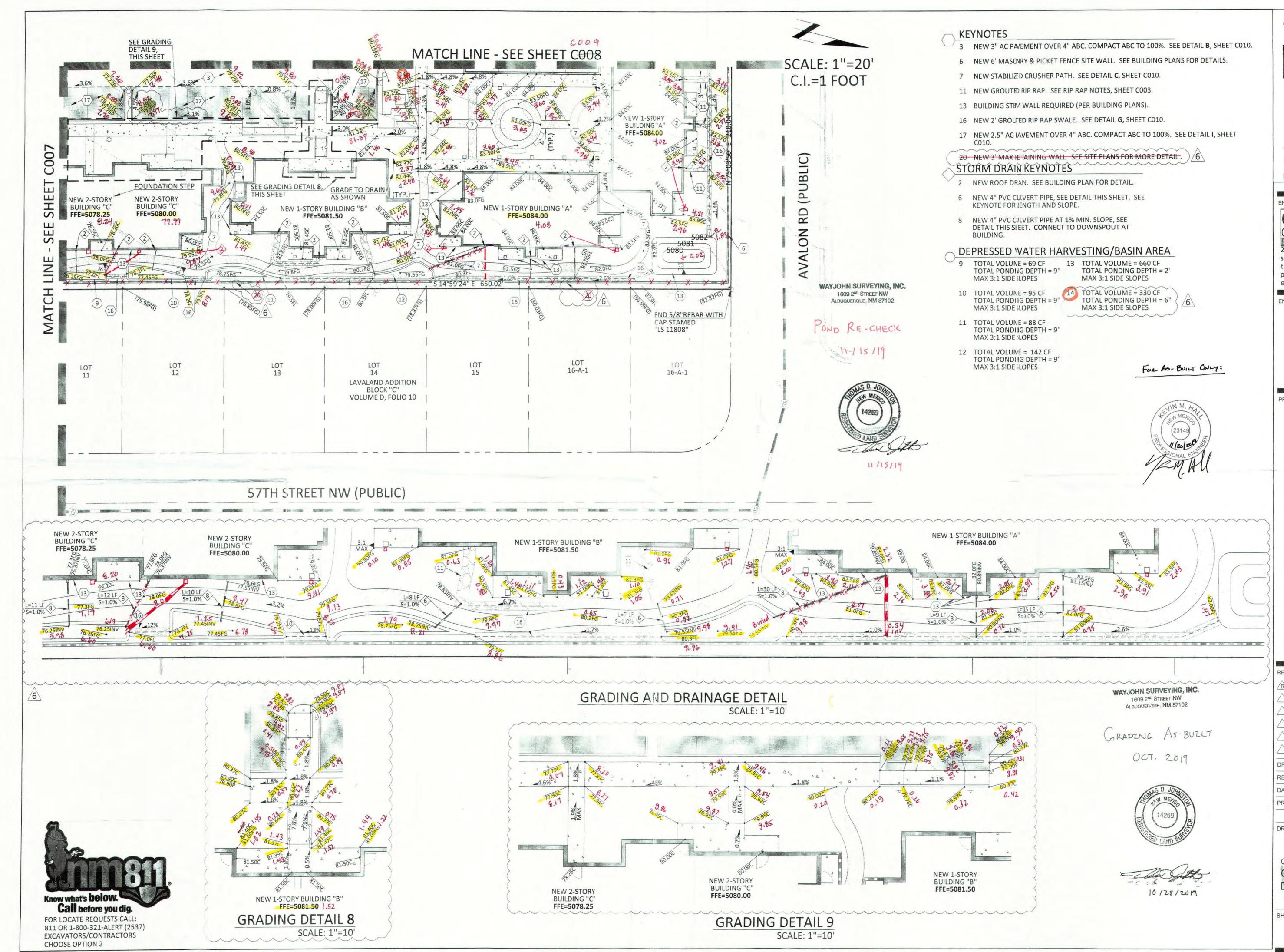
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06/11/2018 PROJECT NO

DRAWING NAME

GRADING AND DRAINAGI GRADING + DRAINAGE - (NW)

SHEET NO



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ARCHITECTURE / DESIGN / INSPIRATION

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ENGINEER



PROJECT

WEST MESA

O Avalon Road, NW

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DATE

06/11/20

PROJECT NO 14-070

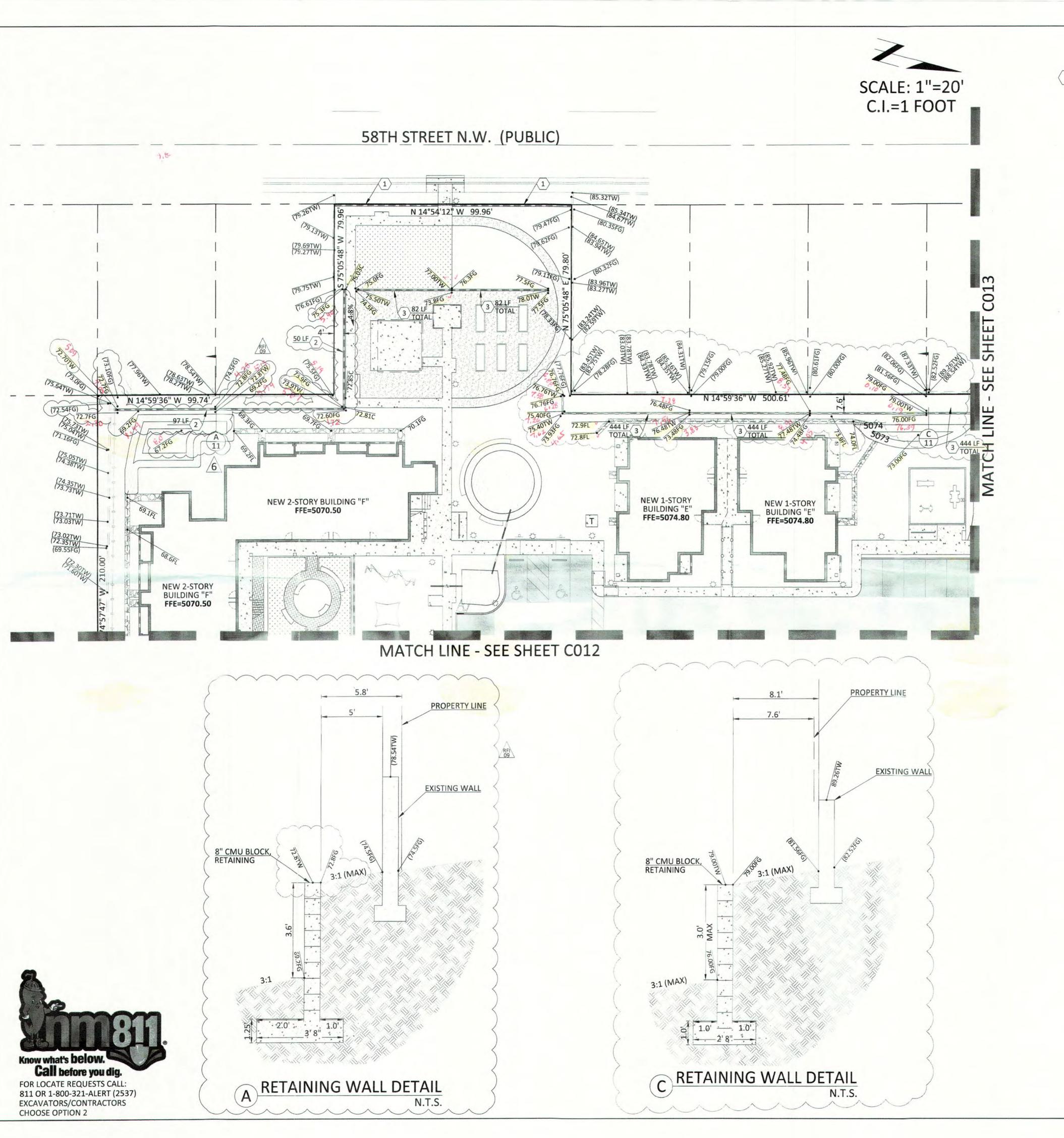
DRAWING NAME

GRADING AND DRAINAG GRADING + DRAINAGE - (NE)

SHEET NO

C00

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KEYNOTES

NEW 6' MASONRY & PICKET FENCE SITE WALL. SEE BUILDING PLANS FOR DETAILS.

WAYJOHN SURVEYING, INC. 1609 2ND STREET NW ALBUQUERQUE, NM 87102

GRADING AS-BULLT

OCT. 2019

10/28/2019

FOR AS-BUILT ONLY:

- NEW 4' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.
- 3 NEW 3' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.

DEKKER PERICH SABATINI

ARCHITECTURE / DESIGN / INSPIRATION

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T WEST MESA

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REVISIONS

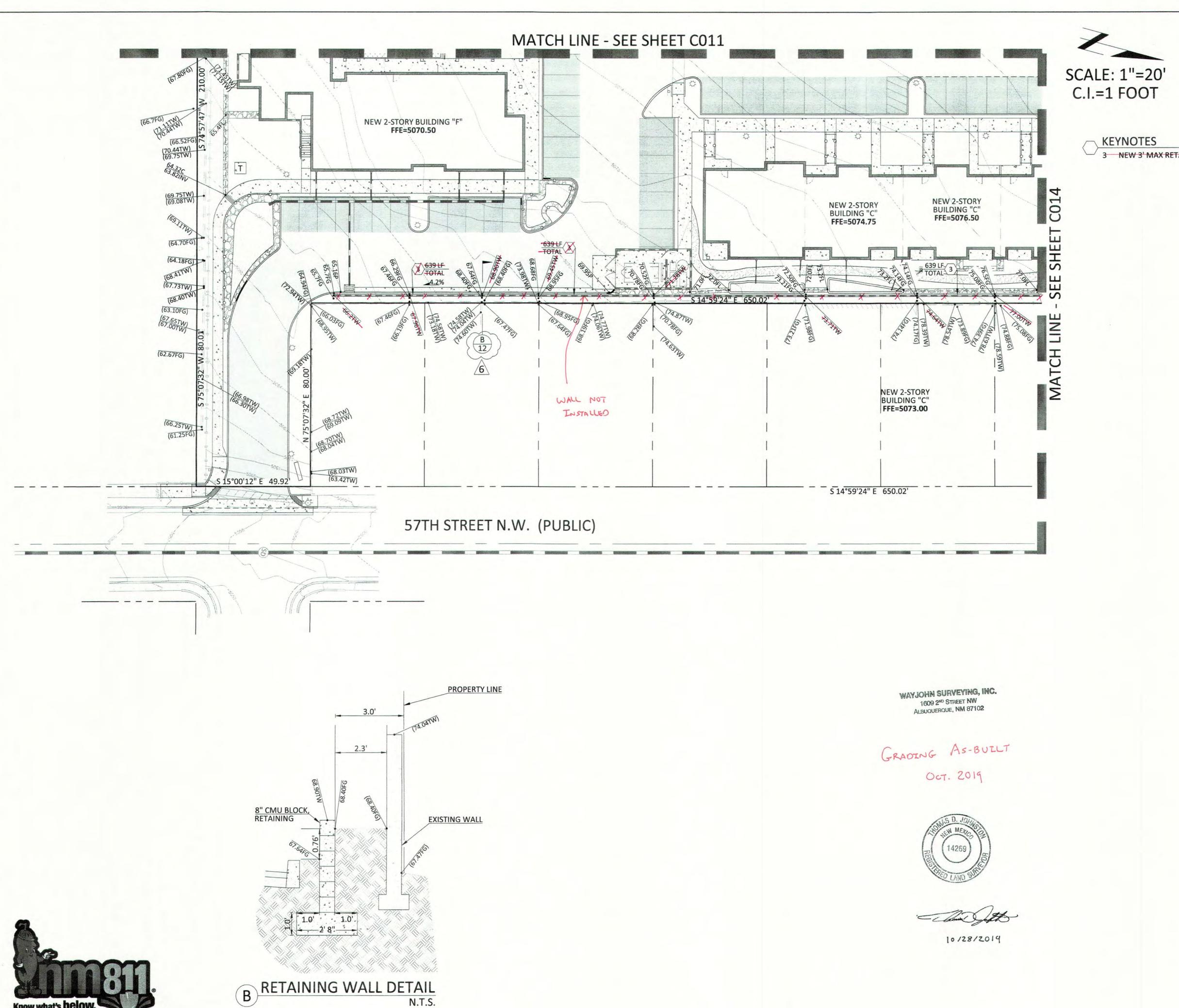
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JMR
КМН
06/11/2018
14-0701

DRAWING NAME

GRADING AND DRAINAGE
RETAINING WALL
EXHIBIT (SW)

SHEET NO



Know what's below.

Call before you dig.

FOR LOCATE REQUESTS CALL:
811 OR 1-800-321-ALERT (2537)
EXCAVATORS/CONTRACTORS
CHOOSE OPTION 2

3 NEW 3' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.

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FOR AS-BUILT ONLY:

ISSUED FOR CONSTRUCTION

ARCHITECTURE / DESIGN / INSPIRATION

PERICH

SABATINI

7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

CIVIL DEVELOPMENT

ph: 520.499.2456

ENGINEER

PROJECT

2030 east speedway boulevard suite #110 tucson, arizona 85719

e: kmhall@cypresscivil.com

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REVIEWED BY

MH

DATE

06/11/2018

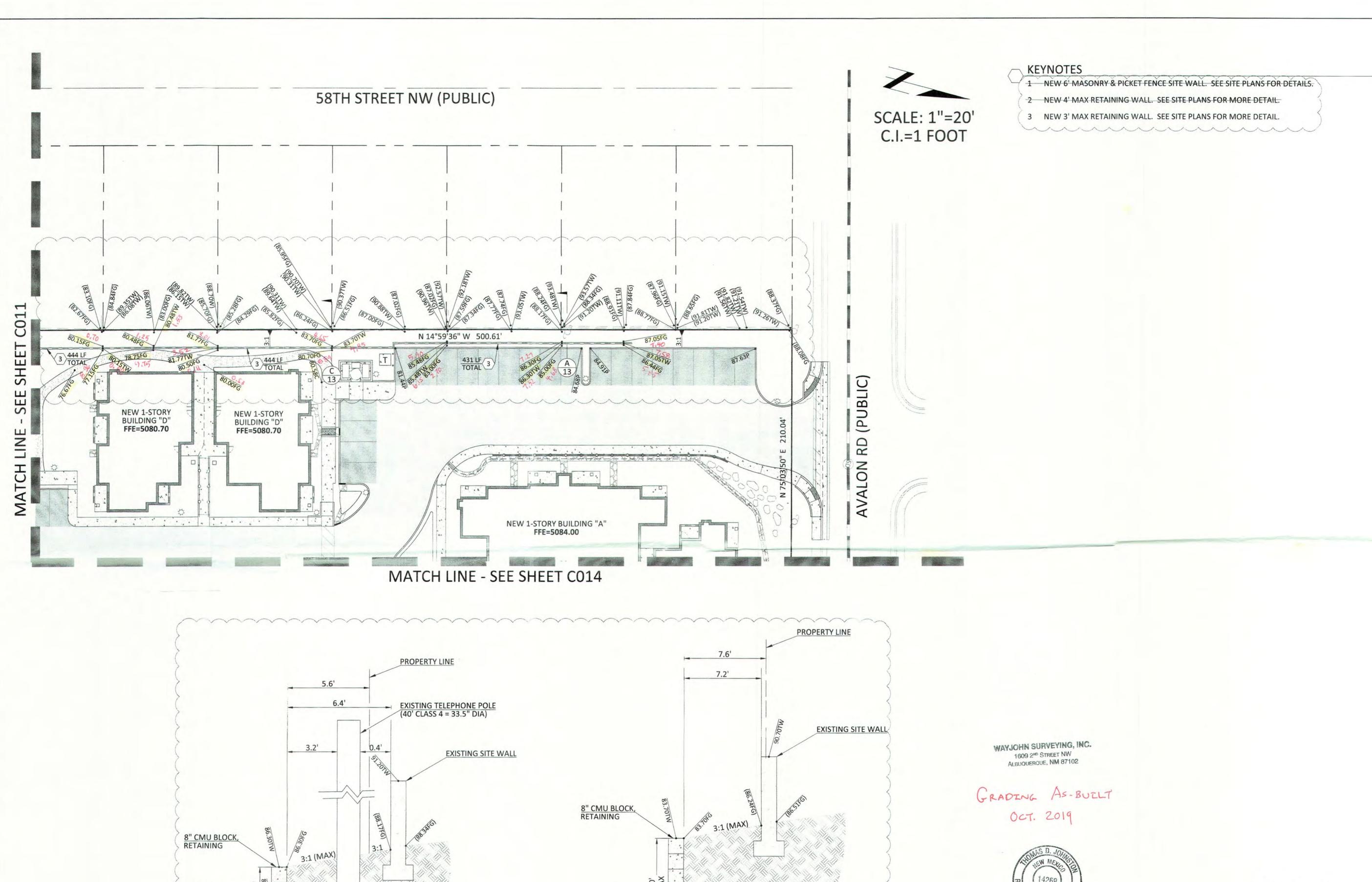
PROJECT NO

14-0701

DRAWING NAME

GRADING AND DRAINAGE RETAINING WALL EXHIBIT (SE)

SHEET NO



3:1 (MAX)

C RETAINING WALL DETAIL

Know what's below. Call before you dig.

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10/28/2019

FOR AS-BUILT ONLY:



RETAINING WALL EXHIBIT (NW)

06/11/2018 KMF 14-070

ISSUED FOR

CONSTRUCTION

6 06/11/2018 ASI-002

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PROJECT NO

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ARCHITECTURE / DESIGN / INSPIRATION

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2030 east speedway boulevard

tucson, arizona 85719

e: kmhall@cypresscivil.com

ph: 520.499.2456

ENGINEER

suite #110

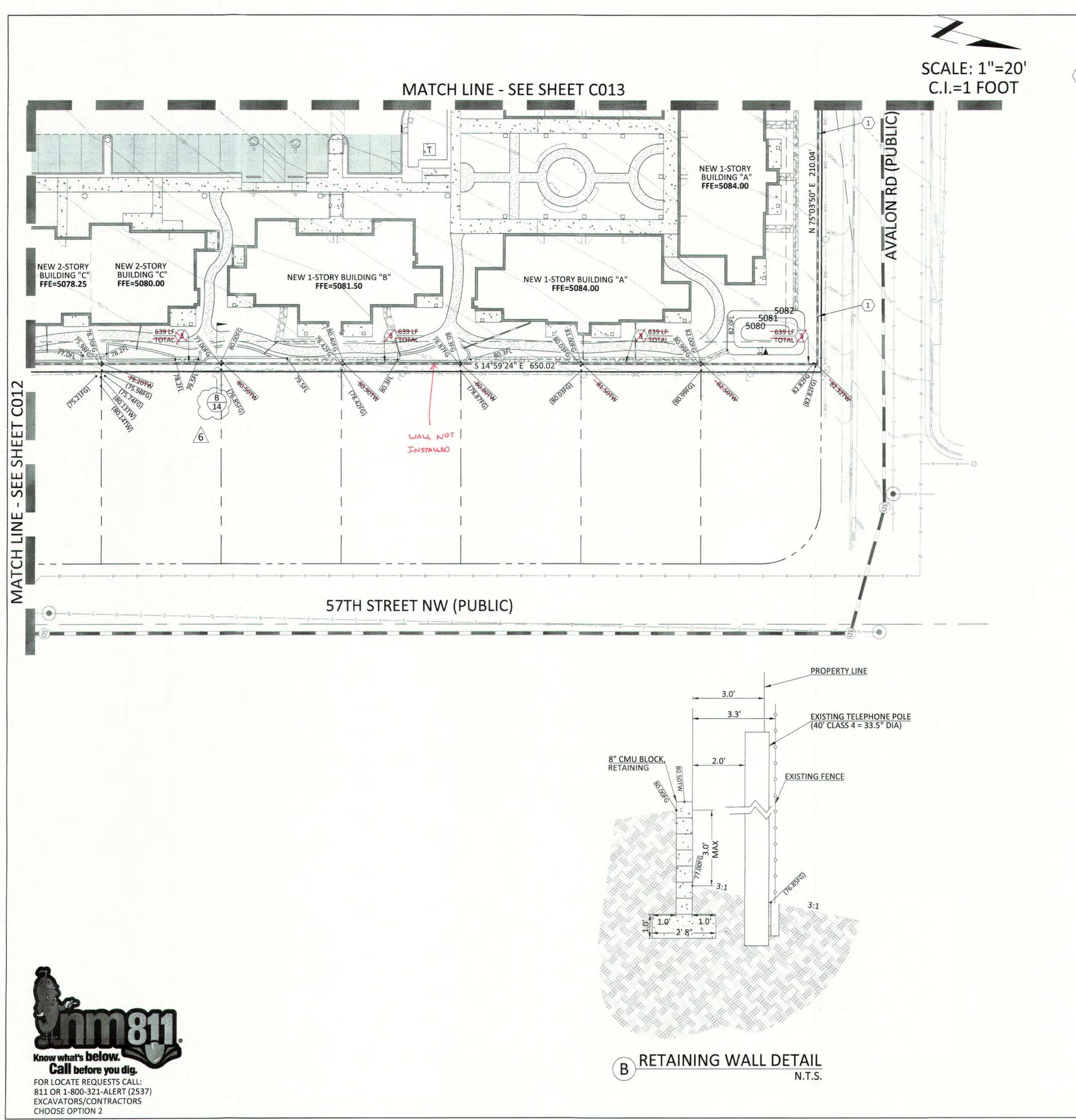
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PROJECT

SHEET NO

C01

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KEYNOTES

1 NEW 6' MASONRY & PICKET FENCE SITE WALL. SEE SITE PLANS FOR DETAILS.

3 NEW 3' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.

PERICH SABATINI

ARCHITECTURE / DESIGN / INSPIRATION

7601 JEFFERSON NE. SUITE 100 ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

ENGINEER 2030 east speedway boulevard suite #110

tucson, arizona 85719 ph: 520.499.2456 e: kmhall@cypresscivil.com

ENGINEER



PROJECT

AT

ISSUED FOR CONSTRUCTION

REVISIONS 6 06/11/2018 ASI-002

DRAWN BY REVIEWED BY 06/11/2018 PROJECT NO 14-0701

DRAWING NAME

RETAINING WALL EXHIBIT (NE)

SHEET NO

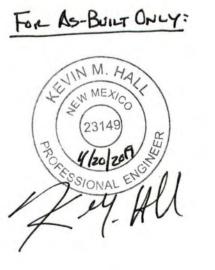
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WAYJOHN SURVEYING, INC. 1609 2ND STREET NW ALBUQUERQUE, NM 87102

GRADING AS-BUILT Oct. 2019



10/28/2019



1. ALL ON-SITE BUILDING OF THE PRIVATE BUILDING OF THE BP-2018-07324

2. ALL ON-SITE DON'S TO WATER'S JPPLY LINES ARE PRIVATE. THE MATERIALS AND THE SHALL BE PER THE REQUIREMENTS OF THE IN LANATIONAL PLUMBING

3. ALL ON-SITE FIRE SERVICE MAINS ARE PRIVATE. THE MATERIALS AND INSTALLATION SHALL BE PER THE REQUIREMENTS OF THE INTERNATIONAL FIRE CODE, LATEST EDITION AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATION 24, LATEST EDITION.

- 1. INSTALLATION OF FIRE SERVICE UNDERGROUND SHALL
- SYSTEM TO BE TESTED AT 200 PSI (OR 50 PSI ABOVE STREET
- 4. SYSTEM TO BE FLUSHED. FLUSH TO BE WITNESSED BY ALBUQUERQUE FIRE DEPARTMENT INSPECTOR.
- 5. RESTRAINT METHOD FOR NEW FIRE SERVICE INSTALLATION
- 6. TRACER WIRE OR APPROVED EQUIVALENT SHALL BE
- 1 NEW PRIVATE 4" PVC SEWER LINE. SEE KEYNOTE FOR
- 2 NEW PRIVATE SEWER CLEANOUT. SEE KEYNOTE FOR
- NEW PRIVATE SEWER CLEANOUT. SEE KEYNOTE FOR RIM AND PLUMBING PLAN FOR INVERT(S).
- 4 NEW PRIVATE 6" PVC SEWER LINE. SEE KEYNOTE FOR
- NEW PRIVATE 3" PVC WATER MAIN PER ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.
- NEW PRIVATE 4" PVC FIRE SERVICE. SEE KEYNOTE FOR LENGTH. CONTRACTOR TO CONFIRM SIZE AND ALIGNMENT WITH FIRE PROTECTION PLAN.
- NEW PRIVATE 2" WATER SERVICE. SEE KEYNOTE FOR
- 8 NEW PRIVATE FIRE HYDRANT PER COA STD DTL 2340.
- 15 NEW PRIVATE 6" DIP WATER LINE FOR FIRE HYDRANT PER ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.
- 18 NEW 4" BACKFLOW PREVENTER AND POST INDICATOR VALVE CONTRACTOR TO CONFIRM SIZE AND LOCATION

WAYJOHN SURVEYING, INC. 1609 2ND STREET NW ALBUQUERQUE, NM 87102

GRADING AS-BUILT

OCT. 2019



10/28/2019

UTILITY CROSSINGS

SEWER/WATER CROSSING 3" WATER INV=68.47 6" SEWER TOP=66.97 SEPARATION=1.50' (MIN)



FOR AS-BUILT CALY:

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PAMASTER REFERENCE LOGO SOS 01.12.jpg

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2030 east speedway boulevard suite #110 tucson, arizona 85719 ph: 520.499.2456 e: kmhall@cypresscivil.com

ENGINEER



PROJECT

5710 Avalon Albuquerque,

100% CONSTRUCTION **DOCUMENTS**

> REVISIONS
>
> 04/06/2018 ADDENDUM 002: 2 ALL SHEETS REISSUED 13 08/23/2018

DRAWN BY **REVIEWED BY** DATE 04/06/2018

DRAWING NAME

PROJECT NO

UTILITITIES EASMENTS (SW)

Done

SHEET NO

C015

14-0701

Call before you dig. FOR LOCATE REQUESTS CALL: 811 OR 1-800-321-ALERT (2537) EXCAVATORS/CONTRACTORS

CHOOSE OPTION 2

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811 OR 1-800-321-ALERT (2537) **EXCAVATORS/CONTRACTORS**

FOR LOCATE REQUESTS CALL:

CHOOSE OPTION 2

CITY OF ALBUQUERQUE PLANNING

These plans have been reviewed for code compliance and are:

- 1. ALL ON-SITE BUILDINGS STORES TO SECTION LINES ARE PRIVATE. THE IN Actions by his saide of proproAceLATION SHALL BE PER THE REQUIREME DE 2018-07324
 PLUMBING COPERMIT # BP-2018-07324
- 2. ALL ON-SITE DON'STIC WATER SUPPLY LINES ARE PRIVATE. THE MATERIALS AND TOSTAL BE PER THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING
- 3. ALL ON-SITE FIRE SERVICE MAINS ARE PRIVATE. THE MATERIALS AND INSTALLATION SHALL BE PER THE REQUIREMENTS OF THE INTERNATIONAL FIRE CODE LATEST EDITION AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATION 24, LATEST EDITION.

PRIVATE FIRE SUPPRESSION NOTES

- 1. INSTALLATION OF FIRE SERVICE UNDERGROUND SHALL CONFORM TO NFPA 13.
- 2. MINIMUM DEPTH OF BURY TO BE 36".
- 3. SYSTEM TO BE TESTED AT 200 PSI (OR 50 PSI ABOVE STREET PRESSURE) FOR 2 HOURS.
- 4. SYSTEM TO BE FLUSHED. FLUSH TO BE WITNESSED BY ALBUQUERQUE FIRE DEPARTMENT INSPECTOR.
- 5. RESTRAINT METHOD FOR NEW FIRE SERVICE INSTALLATION TO BE CONCRETE THRUST BLOCKS.
- 6. TRACER WIRE OR APPROVED EQUIVALENT SHALL BE INSTALLED WITH ALL UNDERGROUND PIPING.

¬SEWER KEYNOTES

- NEW PRIVATE 4" PVC SEWER LINE. SEE KEYNOTE FOR LENGTH AND SLOPE.
- NEW PRIVATE SEWER CLEANOUT. SEE KEYNOTE FOR RIM AND INVERT(S).
- 4 NEW PRIVATE 6" PVC SEWER LINE. SEE KEYNOTE FOR
- CONNECT NEW PRIVATE 6" SEWER TO EXISTING PUBLIC MANHOLE PER ABCWUA STANDARDS AND

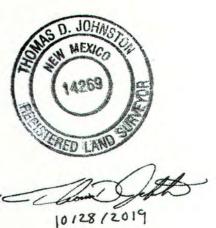
WATER KEYNOTES

- NEW PRIVATE 4" PVC FIRE SERVICE. SEE KEYNOTE FOR LENGTH. CONTRACTOR TO CONFIRM SIZE AND ALIGNMENT WITH FIRE PROTECTION PLAN.
- RELOCATED PER SEPARATE PLAN.
- 4 NEW PUBLIC 6" DIP WATER LINE FOR FIRE HYDRANT PER SEPARATE PLAN.
- 5 NEW PRIVATE 2" WATER SERVICE. SEE KEYNOTE FOR
- 8 NEW PRIVATE FIRE HYDRANT PER COA STD DTL 2340.
- 12 NEW PRIVATE 8" PVC FIRE LINE MAIN PER ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.
- 15 NEW PRIVATE 6" DIP WATER LINE FOR FIRE HYDRANT PER
- ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.
- LENGTH. (TO BE USED FOR FROST FREE YARD HYDRANT).
- 17 NEW 4" FIRE SERVICE LINE FOR FDC. SEE KEYNOTE FOR LENGTH. CONTRACTOR TO CONFIRM SIZE AND ALIGNMENT WITH FIRE PROTECTION PLAN.
- 18 NEW 2" BACKFLOW PREVENTER.
- 19 NEW 2" WATER METER PER SEPARATE PLAN.

WAYJOHN SURVEYING, INC. 1609 2ND STREET NW ALBUQUERQUE, NM 87102

GRADING AS-BUILT OCT. 2019





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PROJECT

S Z 5710 Avalon Albuquerque, 1

100% CONSTRUCTION **DOCUMENTS**

REVISIONS 04/06/2018 ADDENDUM 002: 2 ALL SHEETS REISSUED 13 08/23/2018 ASI-003

DRAWN BY **REVIEWED BY KMH** DATE 04/06/2018 PROJECT NO 14-0701

DRAWING NAME

UTILITIES + EASEMENTS (SE) Done

SHEET NO

These plans have been reviewed for code compliance and are:

PRIVATE UNILITY PPROVED 1. ALL ON-SITE BUILDINGS STATES TO THE CTION I INES ARE

PRIVATE. THE IN A TIES IN THE INTERNATIONAL PLUMBING OF PERMIT # BP-2018-07324 2. ALL ON-SITE DON'S TO WATER'S JPPLY LINES ARE PRIVATE.

THE MATERIALS AND INSTALLANCE SHALL BE PER THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE, LATEST EDITION.

3. ALL ON-SITE FIRE SERVICE MAINS ARE PRIVATE. THE MATERIALS AND INSTALLATION SHALL BE PER THE REQUIREMENTS OF THE INTERNATIONAL FIRE CODE LATEST EDITION AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATION 24, LATEST EDITION

PRIVATE FIRE SUPPRESSION NOTES

1. INSTALLATION OF FIRE SERVICE UNDERGROUND SHALL CONFORM TO NFPA 13.

2. MINIMUM DEPTH OF BURY TO BE 36".

3. SYSTEM TO BE TESTED AT 200 PSI (OR 50 PSI ABOVE STREET PRESSURE) FOR 2 HOURS.

4. SYSTEM TO BE FLUSHED. FLUSH TO BE WITNESSED BY ALBUQUERQUE FIRE DEPARTMENT INSPECTOR.

5. RESTRAINT METHOD FOR NEW FIRE SERVICE INSTALLATION TO BE CONCRETE THRUST BLOCKS.

6. TRACER WIRE OR APPROVED EQUIVALENT SHALL BE INSTALLED WITH ALL UNDERGROUND PIPING.

SEWER KEYNOTES

NEW PRIVATE 4" PVC SEWER LINE. SEE KEYNOTE FOR LENGTH AND SLOPE.

2 NEW PRIVATE SEWER CLEANOUT. SEE KEYNOTE FOR RIM AND INVERT(S).

3 NEW PRIVATE SEWER CLEANOUT. SEE KEYNOTE FOR RIM AND PLUMBING PLAN FOR INVERT(S).

4 NEW PRIVATE 6" PVC SEWER LINE. SEE KEYNOTE FOR LENGTH AND SLOPE.

WATER KEYNOTES

1 NEW PRIVATE 3" PVC WATER MAIN PER ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.

NEW PRIVATE 4" PVC FIRE SERVICE. SEE KEYNOTE FOR LENGTH. CONTRACTOR TO CONFIRM SIZE AND ALIGNMENT WITH FIRE PROTECTION PLAN.

NEW PRIVATE 2" WATER SERVICE. SEE KEYNOTE FOR LENGTH.

NEW 3" BACKFLOW PREVENTER PER ABCWUA STANDARDS.

7 NEW 3" WATER METER PER ABCWUA STANDARDS. INSTALL LARGE DIAMETER METER VAULT PER COA STD DTL 2370.

NEW PRIVATE FIRE HYDRANT PER COA STD DTL 2340.

9 NEW 8" BACKFLOW PREVENTER PER ABCWUA STANDARDS.

10 NEW 1.5" SERVICE TAP FOR IRRIGATION, SEE LANDSCAPE PLAN FOR MORE DETAIL.

12 NEW PRIVATE 8" PVC FIRE LINE MAIN PER ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.

1.5 NEW PRIVATE 6" DIP WATER LINE FOR FIRE HYDRANT PER ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.

18 NEW 4" BACKFLOW PREVENTER AND POST INDICATOR

17 NEW 4" FIRE SERVICE LINE FOR FDC. SEE KEYNOTE FOR LENGTH. CONTRACTOR TO CONFIRM SIZE AND ALIGNMENT WITH FIRE PROTECTION PLAN.

VALVE CONTRACTOR TO CONFIRM SIZE AND LOCATION

WITH FIRE PROTECTION PLAN. 20 NEW PUBLIC 3" PVC WATER MAIN PER ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.



SCALE: 1"=20' C.I. = 1 FOOT EXISTING PUBLIC SEWER MANHOLE #234 RIM=5087.94 INV =5073.6 58TH STREET N.W. (PUBLIC) EXISTING PUBLIC 8"
CONCRETE SEWER PER PN 26-3502-90 BLIC) EXISTING PUBLIC 6" PVC WATER PER PN 26-1693-0183 P X **EXISTING OVERHEAD** ELECTRIC TO REMAIN **NEW 3" METER** N 14°59'36" W 500.61 RIM=80.20 SH **EXISTING FIRE HYDRANT** NEW 35' X 35' PUBLIC S **NEW 1-STORY NEW 1-STORY** BUILDING "D" BUILDING "D" EXISTING PUBLIC SEWER FFE=5080.70 FFE=5080.70 MANHOLE #145 RIM=5087.94 INV=5073.6 **EXISTING STORM DRAIN** RIM=83.50 RIM=5087.50 NEW 1-STORY BUILDING "A"

MATCH LINE - SEE SHEET C018

UTILITY CROSSINGS

SEWER/WATER CROSSING 3" WATER INV=68.97 6" SEWER TOP=66.97 SEPARATION=2.0'

- SEWER/WATER CROSSING 3" WATER INV=84.36 15" STORM DRAIN=82.36* SEPARATION=2.0' (1.5' MIN)
- SEWER/WATER CROSSING 3" WATER INV=84.36 48" SEWER TOP=78.1 (APPROX.) SEPARATION=6.3' (1.5' MIN)
- SEWER/WATER CROSSING 8" WATER INV=84.02 15" STORM DRAIN=82.20* SEPARATION=1.8' (1.5' MIN)
- SEWER/WATER CROSSING 8" WATER INV= 84.02 48" SEWER TOP= 78.00 (APPROX.) SEPARATION=6.0' (1.5' MIN)

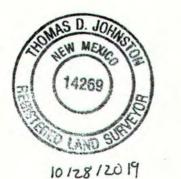
*CONTRACTOR TO VERIFY INVERT OF STORM DRAIN AS NO SURVEY OR AS-BUILT INFORMATION WAS PROVIDED. CONTRACTOR TO MAINTAIN 1.5' SEPARATION BETWEEN NEW WATERLINE AND EXISTING 15" STORM DRAIN.

NOTE:

CONTRACTOR TO VERIFY ALL UTILITY INFORMATION SHOWN WITH BUILDING PLUMBING PLANS.

> WAYJOHN SURVEYING, INC. 1609 2ND STREET NW ALBUQUERQUE, NM 87102

GRADING AS-BUILT OCT. 2019



FOR AS-BUILT ONLY:



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CHOOSE OPTION 2

04/06/2018

14-0701

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2030 east speedway boulevard

e: kmhall@cypresscivil.com

tucson, arizona 85719

ph: 520.499.2456

ENGINEER

suite #110

ENGINEER

PROJECT

NER

100% CONSTRUCTION

REVISIONS

DRAWN BY

DATE

REVIEWED BY

PROJECT NO

DRAWING NAME

SHEET NO

UTILITIES

Done

EASEMENTS (NW

DOCUMENTS

04/06/2018 ADDENDUM 002:

ALL SHEETS REISSUED

13 08/23/2018 ASI-003

Know what's below.

CHOOSE OPTION 2

Call before you dig.

811 OR 1-800-321-ALERT (2537) EXCAVATORS/CONTRACTORS

FOR LOCATE REQUESTS CALL:

CITY OF ALBUQUERQU PLANNING

These plans have been reviewed for code compliance and are:

PRIVATE UNILLEMBERG VED

- 1. ALL ON-SITE BUILDING TO THE CTION I INES ARE PRIVATE. THE INCOME AND PRIVATE ON SHALL BE PER THE REQUIREME: 125 THE PRIVATE ONAL PLUMBING COPERMIT # BR-2018-07324
- 2. ALL ON-SITE DON'STIC WATER SUPPLY LINES ARE PRIVATE.

 THE MATERIALS ARE PRIVATE.

 REQUIREMENTS OF THE INTERNATIONAL PLUMBING

 CODE, LATEST EDITION.
- 3. ALL ON-SITE FIRE SERVICE MAINS ARE PRIVATE. THE MATERIALS AND INSTALLATION SHALL BE PER THE REQUIREMENTS OF THE INTERNATIONAL FIRE CODE, LATEST EDITION AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATION 24, LATEST EDITION.

PRIVATE FIRE SUPPRESSION NOTES

- INSTALLATION OF FIRE SERVICE UNDERGROUND SHALL CONFORM TO NFPA 13.
- 2. MINIMUM DEPTH OF BURY TO BE 36".
- 3. SYSTEM TO BE TESTED AT 200 PSI (OR 50 PSI ABOVE STREET PRESSURE) FOR 2 HOURS.
- SYSTEM TO BE FLUSHED. FLUSH TO BE WITNESSED BY ALBUQUERQUE FIRE DEPARTMENT INSPECTOR.
- 5. RESTRAINT METHOD FOR NEW FIRE SERVICE INSTALLATION TO BE CONCRETE THRUST BLOCKS.
- 6. TRACER WIRE OR APPROVED EQUIVALENT SHALL BE INSTALLED WITH ALL UNDERGROUND PIPING.

SEWER KEYNOTES

- 1 NEW PRIVATE 4" PVC SEWER LINE. SEE KEYNOTE FOR LENGTH AND SLOPE.
- 2 NEW PRIVATE SEWER CLEANOUT. SEE KEYNOTE FOR RIM AND INVERT(S).
- 3 NEW PRIVATE SEWER CLEANOUT. SEE KEYNOTE FOR RIM AND PLUMBING PLAN FOR INVERT(S).
- 4 NEW PRIVATE 6" PVC SEWER LINE. SEE KEYNOTE FOR LENGTH AND SLOPE.
- 5 CONNECT NEW PRIVATE 6" SEWER TO EXISTING PUBLIC MANHOLE PER ABCWUA STANDARDS AND SPECIFICATIONS.

WATER KEYNOTES

- NEW PRIVATE 4" PVC FIRE SERVICE. SEE KEYNOTE FOR LENGTH. CONTRACTOR TO CONFIRM SIZE AND ALIGNMENT WITH FIRE PROTECTION PLAN.
- 5 NEW PRIVATE 2" WATER SERVICE. SEE KEYNOTE FOR LENGTH.
- 12 NEW PRIVATE 8" PVC FIRE LINE MAIN PER ABCWUA STANDARDS. SEE KEYNOTE FOR LENGTH.
- 13 NEW PRIVATE 1.5" WATER SERVICE. SEE KEYNOTE FOR
- LENGTH.

 17 NEW 4" FIRE SERVICE LINE FOR FDC. SEE KEYNOTE FOR

LENGTH. CONTRACTOR TO CONFIRM SIZE AND

WITH FIRE PROTECTION PLAN.

ALIGNMENT WITH FIRE PROTECTION PLAN.

18 NEW 4" BACKFLOW PREVENTER AND POST INDICATOR VALVE CONTRACTOR TO CONFIRM SIZE AND LOCATION

FOR AS-BUILT CALY:



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GENERALIONS
AT WEST MESA
5710 Avalon Road, NW
Albuquerque, NM 87105

100% CONSTRUCTION DOCUMENTS

REVISIONS

04/06/2018 ADDENDUM 002:
2 ALL SHEETS REISSUED
13 08/23/2018 ASI-003

DRAWN BY JR

REVIEWED BY KMH

DATE 04/06/2018

PROJECT NO 14-0701

DRAWING NAME



SHEET NO