

CITY OF ALBUQUERQUE



Timothy M. Keller, Mayor

April 19, 2018

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
Grading and Drainage Plan
Engineer's Stamp Date: 04/11/18
Hydrology File: K11D084**

PO Box 1293

Dear Mr. Hall:

Albuquerque

Based upon the information provided in your resubmittal received 04/17/2018, the Grading and Drainage Plan is approved for Building Permit and Grading Permit.

NM 87103

Please attach a copy of this approved plan in the construction sets for Building Permit processing. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

www.cabq.gov

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

Sincerely,

Renée C. Brissette

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



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 3/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

IS THIS A RESUBMITTAL?: ____ Yes ____ No

DEPARTMENT:

____ HYDROLOGY/ DRAINAGE
____ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ DRAINAGE MASTER PLAN
____ DRAINAGE REPORT
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR

____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)

____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL

____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

12 April 2018

City of Albuquerque Hydrology Department
600 2nd Street NW, Suite 201
Albuquerque, New Mexico 87102

RE: Responses to Comments for Generations at West Mesa –Hydrology– 1st Submittal – K11D084

Cypress Civil Development has compiled the following responses to the comment letter received from City of Albuquerque Hydrology Department for the above mentioned project. The responses are listed by heading below:

Comments dated March 21, 2018 from Renee C. Brissette, P.E. – Hydrology Department

Comment 1 – Complied. The plan set was revised and is now presented on 24" x 36" paper.

Comment 2 – Complied. An Erosion and Sediment Control Plan has been submitted to the storm water quality engineer.

Comment 3 – Complied. The Utility Sheets were removed from the plan set.

Comment 4 – Complied. The Existing and Proposed watersheds are now included in the plan set.

Comment 5 – Complied. The FIRM Map and flood plain note with effective date is now provided on sheet C001.

Comment 6 – Complied. The drawing scale was corrected and is now scalable.

Comment 7 – Complied. The Drainage Concept and First Flush Measures is now provided on the proposed watershed map.

Comment 8 – Complied. The general paving and grading notes have been updated accordingly, thank you.

Comment 9 – Complied. A stamp is now provided with a signature and date.

Comment 10 – Complied. A north arrow and scale is now provided.

Comment 11 – Complied. An Existing Conditions section is now provided on the Existing Watershed Map.

Comment 12 – Complied. The existing drainage calculations now account for the runoff that is captured by the existing storm drain inlets. The inlet

Comment 13 – Complied. A stamp is now provided with a signature and date.

Comment 14 – Complied. The drawing scale was corrected and is now scalable.

Comment 15 – Acknowledged. Per email discussions, HEC HMS was used to calculate the Q100 that discharges into the right-of-way from the proposed development. The proposed water harvesting/basin areas detain approximately 3.33 cfs, ultimately discharging approximately 10.5 cfs, the same as existing conditions.

Comment 16 – Complied. Weir calculations are now provided for the proposed curb openings (3' and 10' wide). Each curb opening is now called out on the proposed watershed map with the associated Q value that is conveyed through each curb opening.

Comment 17 – Complied. The inlet calculation for the proposed single “D” catch basin is now provided.

Comment 18 – Complied. The drawing scale was corrected and is now scalable.

Comment 19 – Complied. A grading detail of the driveway entrances is now provided.

Comment 20 – Complied. The drawing scale was corrected and is now scalable.

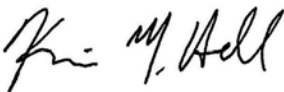
Comment 21 – Complied. The pressure of the existing walls has been accounted for in the new wall and footing designs (confirmed with the Structural Engineer). The new footing does fall within the angle of repose for the existing footings at the tallest portions of the new retaining wall. This was discussed with the structural engineer and a note has been added to the structural detail:
“WHERE ADJACENT EXISTING WALL(S) OCCUR, THE CONTRACTOR SHALL SHORE EXISTING WALL(S), FOOTING(S), AND ALL UNDERLYING SOIL AS REQUIRED TO PREVENT ANY SLOUGHING OF SOIL OR MOVEMENT OF EXISTING WALL(S) AND FOOTING(S).”

Comment 22 – Acknowledged. Ownership is now aware of the covenant and we will be submitting a notarized copy with the next submittal.

These comments addressed are the only comments received by CYPRESS for this project as of the date of this letter. If you have any questions, please do not hesitate to contact the undersigned.

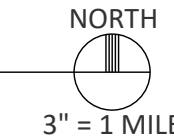
Sincerely,

Cypress Civil Development



Kevin M. Hall, PE
Principal

F.I.R.M.



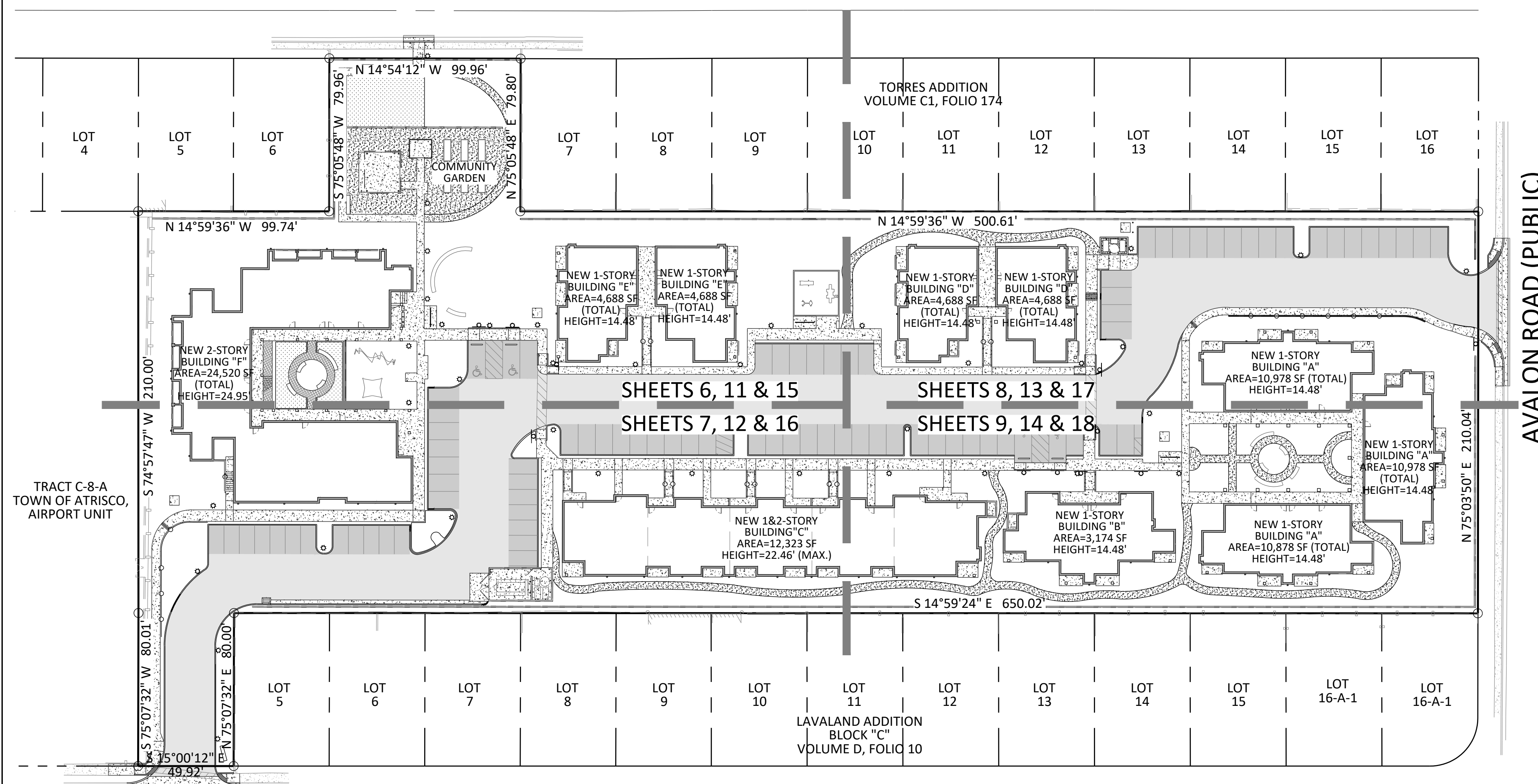
3" = 1 MILE

	PROJECT BOUNDARY		EXISTING UNDERGROUND ELECTRIC
	RIGHT-OF-WAY		EXISTING OVERHEAD ELECTRIC
	OTHER PARCEL LINE		EXISTING GAS LINE
	ROADWAY CENTERLINE		EXISTING SEWER MANHOLE
	EXISTING EASEMENT		EXISTING SEWER CLEANOUT
	NEW EASEMENT		EXISTING WATER METER
	EXISTING CONTOUR		EXISTING BACKFLOW PREVENTER
	NEW CONTOUR		EXISTING WATER VALVE
	SPOT ELEV. (NEW GRADE)		EXISTING FIRE HYDRANT
	SPOT ELEV. (EXIST. GRADE)		EXISTING TRANSFORMER
	GRADING LIMITS		EXISTING POWER POLE
	FLOW-LINE		EXISTING GAS VALVE
	EXISTING PAVEMENT EDGE		EXISTING GAS METER
	EXISTING CURB		NEW SEWER
	EXISTING PAINT STRIPE		NEW WATER
	EXISTING CONCRETE		NEW FIRE SERVICE
	EXISTING FENCE		NEW UNDERGROUND ELECTRIC
	EXISTING RAILING		NEW COMMUNICATION LINE
	NEW CURB		NEW GAS LINE
	NEW PAINT STRIPE		NEW SIGN
	NEW ASPHALT		NEW STREET/TRAFFIC LIGHT
	NEW CONCRETE		NEW SEWER CLEANOUT
	NEW RIP RAP		NEW WATER METER
	NEW FENCE		NEW BACKFLOW PREVENTER
	NEW RAILING		NEW FIRE HYDRANT
	NEW WALL		NEW FIRE CONNECTION
	EXISTING SIGN		NEW ELECTRIC METER
	EXISTING STREET/TRAFFIC LIGHT		NEW ELECTRIC PEDESTAL
	EXISTING STORM DRAIN MANHOLE		NEW TRANSFORMER
	EXISTING STORM DRAIN PIPE		NEW GAS METER
	EXISTING SEWER		SURVEY MONUMENTATION AS NOTED
	EXISTING WATER		SURVEY MONUMENTATION TO BE SET
	EXISTING FIRE SERVICE		
	FIRST FLUSH RETENTION LIMITS		

C001	COVER SHEET
C002	NOTES
C003	NOTES
C004	EXISTING WATERSHED MAP
C005	PROPOSED WATERSHED MAP
C006	GRADING + DRAINAGE PLAN (SW)
C007	GRADING + DRAINAGE PLAN (SE)
C008	GRADING + DRAINAGE PLAN (NW)
C009	GRADING + DRAINAGE PLAN (NE)
C010	DETAILS
C011	RETAINING WALL EXHIBIT (SW)
C011	RETAINING WALL EXHIBIT (SE)
C013	RETAINING WALL EXHIBIT (NW)
C014	RETAINING WALL EXHIBIT (NE)
C015	UTILITIES + EASEMENTS (SW)
C016	UTILITIES + EASEMENTS (SE)
C017	UTILITIES + EASEMENTS (NW)
C018	UTILITIES + EASEMENTS (NE)

58TH STREET N.W. (PUBLIC)

SCALE: 1"=40'



57TH STREET N.W. (PUBLIC)

PROJECT OVERVIEW PLAN



**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

1. 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.
7. 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.



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.ORGNAVTER 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 AGENCIES.
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.

TOTAL CUT	TOTAL FILL	COMPOSITE
12,992 CY	1,192 CY	11,800 CY(C)

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 LINE.
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.

ARCHITECTURE / DESIGN / INSPIRATION



7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109
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ENGINEER



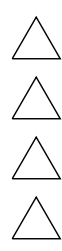
ENGINEER



PROJECT

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

100% CONSTRUCTION DOCUMENTS



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

DRAWING NAME

GRADING AND DRAINAGE NOTES

SHEET NO

C002

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	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

1. 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.

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

SURVEY NOTES

1. BEARINGS ARE IN NEW MEXICO STATE PLANE GRID BEARINGS - CENTRAL ZONE. (NAD 83)
2. 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

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

ENGINEER



PROJECT

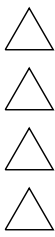
GENERATIONS
AT WEST MESA
5710 Avalon Road, NW
Albuquerque, NM 87105

100% CONSTRUCTION
DOCUMENTS

REVISIONS

1

04/06/2018 ADDENDUM 002:
ALL SHEETS REISSUED



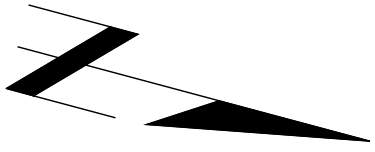
DRAWN BY	JR
REVIEWED BY	KMH
DATE	04/06/2018
PROJECT NO	14-0701

DRAWING NAME

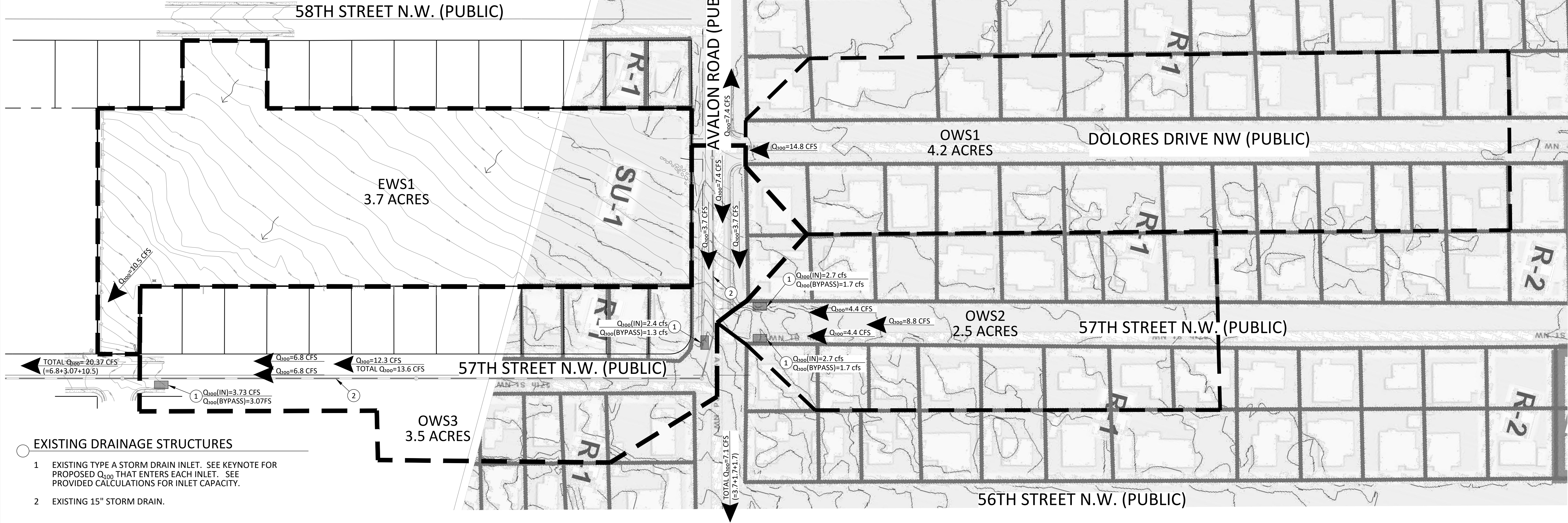
GRADING AND DRAINAGE
NOTES

SHEET NO

C003



SCALE 1"=60'
C.I. = 1 FOOT



EXISTING DRAINAGE STRUCTURES

- 1 EXISTING TYPE A STORM DRAIN INLET. SEE KEYNOTE FOR PROPOSED Q_{100} THAT ENTERS EACH INLET. SEE PROVIDED CALCULATIONS FOR INLET CAPACITY.
- 2 EXISTING 15" STORM DRAIN.

CALCULATIONS: 2124 Generations at West Mesa : February 15, 2018

Based on Drainage Design Criteria for the City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan, 1993

ON-SITE		
AREA OF SITE:	159018.8287 ft^2	$= 3.7 \text{ AC}$

HISTORIC FLOWS:

DEVELOPED FLOW:			EXCESS PRECIP:		
Area	Treatment SF	%	Area	Treatment SF	%
Area A	0	0%	Area A	0	0%
Area B	0	0%	Area B	0	0%
Area C	159018.8287	100%	Area C	61548	39%
Area D	0	0%	Area D	97471	61%
Total Area	159018.8287	100%	Total Area	159018.83	100%

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

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

Historic E	$= 0.99 \text{ in}$	Developed E	$= 1.59 \text{ in}$
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On-site Volume of Runoff: $V_{360} = E^*A/12$:

Historic V_{360}	$= 13119 \text{ CF}$	Developed V_{360}	$= 21070 \text{ CF}$
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On-site Peak Discharge Rate: $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D / 43,560$:

For Precipitation Zone 1

$Q_{pA} = 1.29$	$Q_{pC} = 3$
$Q_{pB} = 2.03$	$Q_{pD} = 4$
Historic $Q_p = 10.5 \text{ CFS}$	Developed $Q_p = 13.83 \text{ CFS}$

CALCULATIONS: 2124 Generations at West Mesa : February 15, 2018

Based on Drainage Design Criteria for the City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan, 1993

OFF-SITE	
AREA OF OFFSITE WATERSHED #1 (OWS1):	4.2 AC
AREA OF OFFSITE WATERSHED #2 (OWS2):	2.5 AC
AREA OF OFFSITE WATERSHED #3 (OWS3):	3.5 AC

DEVELOPED FLOWS (Per Table A-5. Percent Treatment D (Impervious)):

Land Use	Percent
*Single Family Residential	$7 * \sqrt{(N * N) + 5N}$
N=units/acres, N6	

N =	7
Percent D =	64

Land Treatment	%
Area A	0%
Area B	36%
Area C	0%
Area D*	64%

On-site Peak Discharge Rate: $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$:

For Precipitation Zone 1

$Q_{pA} = 1.29$	$Q_{pC} = 2.87$
$Q_{pB} = 2.03$	$Q_{pD} = 4.37$
OWS1 Developed $Q_p = 14.8 \text{ CFS}$	
OWS2 Developed $Q_p = 8.8 \text{ CFS}$	
OWS3 Developed $Q_p = 12.3 \text{ CFS}$	

EXISTING CONDITIONS

THE PROJECT AREA IS APPROXIMATELY 3.7 ACRES AND IS UNDEVELOPED. BASINS ADJACENT TO THE PROJECT AREA ARE FULLY DEVELOPED AND DO NOT FLOW THROUGH THE PROPOSED DEVELOPMENT. RUNOFF IS CONVEYED AS SHEET FLOW TO THE SOUTHEAST PROPERTY BOUNDARY AND DISCHARGED INTO THE 57TH STREET RIGHT OF WAY. ONCE OFFSITE, RUNOFF IS CONVEYED SOUTH APPROXIMATELY A QUARTER MILE WHERE IT ENTERS THE PUBLIC STORM DRAIN SYSTEM IN CENTRAL AVE.

ARCHITECTURE / DESIGN / INSPIRATION

DEKKER
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7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109

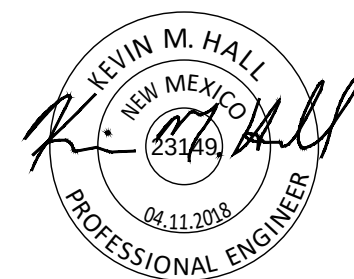
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CYPRESS
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Strength + Sustainability

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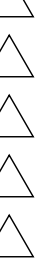
PROJECT

GENERATIONS
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5710 Avalon Road, NW
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DOCUMENTS

REVISIONS

04/06/2018 ADDENDUM 002:
ALL SHEETS REISSUED



DRAWN BY JR

REVIEWED BY KMH

DATE 04/06/2018

PROJECT NO 14-0701

DRAWING NAME

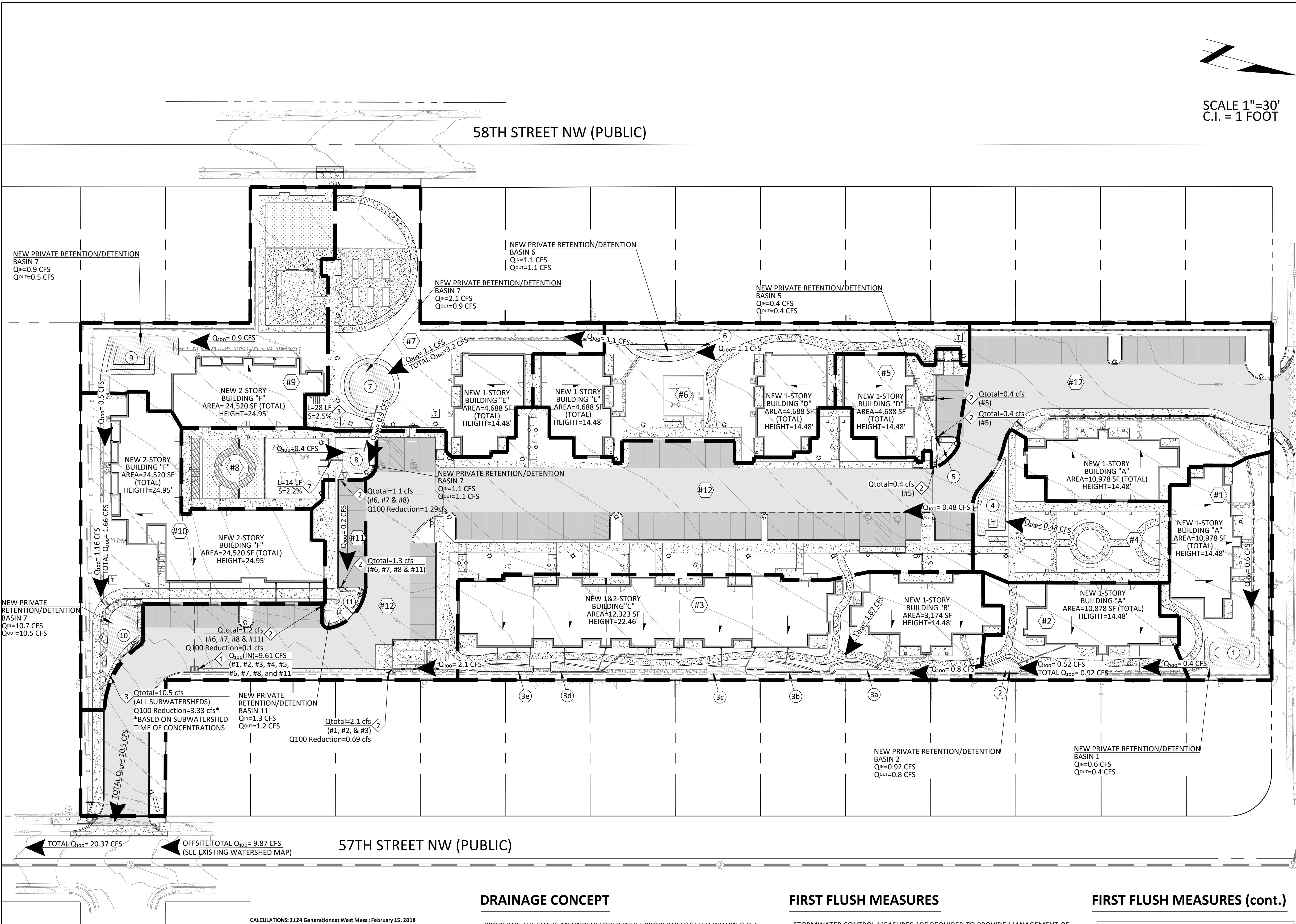
EXISTING WATERSHED
MAP

SHEET NO

C004



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



SCALE 1"=30'
C.I. = 1 FOOT

DEPRESSED WATER HARVESTING/BASIN AREA

- 1 TOTAL VOLUME = 660 CF
TOTAL PONDING DEPTH = 3'
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"
MAX 3:1 SIDE SLOPES
- 3e TOTAL VOLUME = 109 CF
TOTAL PONDING DEPTH = 9"
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 KEYNOTE FOR PROPOSED Q₁₀₀ CONVEYED THROUGH CURB OPENING. SEE PROVIDED WEIR CALCULATIONS FOR CURB CUT CAPACITY.

LEGEND

- Q₁₀₀ = CONCENTRATION POINT
- WATERSHED BOUNDARY
- PROJECT AREA
- FLOW DIRECTION
- SUB WATERSHED DESIGNATOR

DRAINAGE CONCEPT

PROPERTY: THE SITE IS AN UNDEVELOPED INFILL PROPERTY LOCATED WITHIN C.O.A. VICINITY MAP K-11. THE SITE IS BOUND TO THE SOUTH BY FIRE STATION NO. 7, TO THE EAST BY FULLY DEVELOPED RESIDENTIAL PROPERTIES AND ACCESS TO 57TH STREET NW, TO THE WEST BY FULLY DEVELOPED RESIDENTIAL PROPERTIES AND ACCESS TO 58TH STREET NW, AND TO THE NORTH BY AVALON ROAD SW.

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE AN AFFORDABLE HOUSING COMMUNITY FOR SENIORS AND GRANDFAMILIES ALONG WITH A COMMUNITY CENTER, ASSOCIATED ASPHALT PAVED DRIVES, PARKING, PLAYGROUNDS, PEDESTRIAN WALKS AND LANDSCAPING.

OFFSITE FLOW: NO OFF-SITE FLOW IMPACTS THIS PROPERTY.

RETAINING WALLS: ON-SITE RETAINING WALLS AND RETAINING/EXTENDED STEMWALLS WILL BE REQUIRED THROUGHOUT THE DEVELOPMENT TO ACHIEVE THE NECESSARY GRADE TRANSITIONS. NO PERIMETER PROPERTY LINE RETAINING WALLS WILL EXCEED 4' RETAINING AT THE GREATEST GRADE CHANGE. RETAINING WALL DESIGN (WALL LOCATIONS, TOP OF WALL / BOTTOM OF WALL ELEVATIONS) ARE PROVIDED ON SHEETS C011 THRU C013 OF THIS PLAN. RETAINING WALL STRUCTURAL DETAILS ARE PROVIDED WITHIN THE BUILDING PLAN PERMIT SET.

SITE DISCHARGE: FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, DEPRESSED LANDSCAPING AND RETENTION PONDS SIZED TO RETAIN THE FIRST FLUSH VOLUME ARE PROVIDED THROUGHOUT THE PROPERTY. LIMITED ON-SITE UNDERGROUND STORM DRAIN WILL BE PROVIDED TO DIRECT INDIVIDUAL BUILDING ROOF DISCHARGE TO ON-SITE POND LOCATIONS (WHERE CLEAR SURFACE FLOWPATHS ARE NOT AVAILABLE). THE SITE WILL THEN DISCHARGE TO 57TH STREET (SEE SUPPLEMENTAL CALCULATIONS FOR STREET CAPACITY ANALYSIS) TO ENTER THE EXISTING PUBLIC STORM DRAIN SYSTEM.

FIRST FLUSH MEASURES

STORMWATER CONTROL MEASURES ARE REQUIRED TO PROVIDE MANAGEMENT OF 'FIRST FLUSH' (DEFINED AS THE 90TH PERCENTILE STORM EVENT OR 0.34" [0.44" LESS 0.1" FOR INITIAL ABSTRACTION] OF STORMWATER WHICH DISCHARGES DIRECTLY TO A PUBLIC STORM DRAINAGE SYSTEM).

THE PONDING VOLUME REQUIRED IS 0.34" * TYPE 'D' AREA:
0.34/12 * 3.65 AC * 61.3% LAND TREATMENT 'D' * 43,560 = 2,762 CF

THERE ARE 'FIRST FLUSH' RETENTION BASIN AREAS THROUGHOUT THE SITE (HATCHED PER LEGEND). STORMWATER FROM THE IMPERVIOUS AREAS SHALL BE DIRECTED TO THESE BASINS VIA CURB OPENINGS AND ON-SITE STORM DRAINS. FLOW IN EXCESS OF FIRST FLUSH POND CAPACITY WILL OVERFLOW TO ADJACENT PAVEMENT TO DISCHARGE TO 57TH STREET.

THE 'FIRST FLUSH' BASIN VOLUMES WERE ANALYZED AND SIZED AS PART OF THIS DEVELOPMENT. SEE TABLE PROVIDED AND SUPPLEMENTAL SUBWATERSHED MAP FOR MORE INFORMATION.

THE CUMULATIVE AREA SHOWN HATCHED IS APPROXIMATELY 5,949 CF

FIRST FLUSH MEASURES (cont.)

Subwatershed	Size (ft ²)	REQUIRED FIRST FLUSH			Required Volume (CF)	Provided Volume (CF)
		Impervious Area (ft ²)	Percent Impervious	Percent		
#1	7,427	3,078	41%	88	660	
#2	6,331	3,098	49%	88	142	
#3	19,228	11,618	60%	329	451	
#4	6,385	1,793	28%	51	330	
#5	4,098	3,646	89%	103	122	
#6	13,369	6,266	47%	178	213	
#7	13,767	3,212	24%	91	688	
#8	4,851	2,071	43%	59	531	
#9	11,526	4,184	36%	119	957	
#10	13,334	8,183	61%	232	1,177	
#11	2,148	1,697	79%	48	678	
#12	57,056	48,639	85%	1,378	*	
TOTAL:	101,963	48,844		2,762	5,949	

*CATCH BASIN

SUBWATERSHED Qp

Subwatershed	Size (ft ²)	SUBWATERSHED DEVELOPED Qp			CFS
		Impervious Area (ft ²)	Percent Impervious (%)	PerVIOUS (%)	
#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	13,767	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	159,919				13.83



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ENGINEER

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ENGINEER

KEVIN M. HALL
NEW MEXICO
23149
PROFESSIONAL ENGINEER
02.11.2018

PROJECT

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

100% CONSTRUCTION
DOCUMENTS

REVISIONS

04/06/2018 ADDENDUM 002:
ALL SHEETS REISSUED

DRAWN BY JR

REVIEWED BY KMH

DATE 04/06/2018

PROJECT NO 14-0701

DRAWING NAME

PROPOSED WATERSHED
MAP

SHEET NO

C005

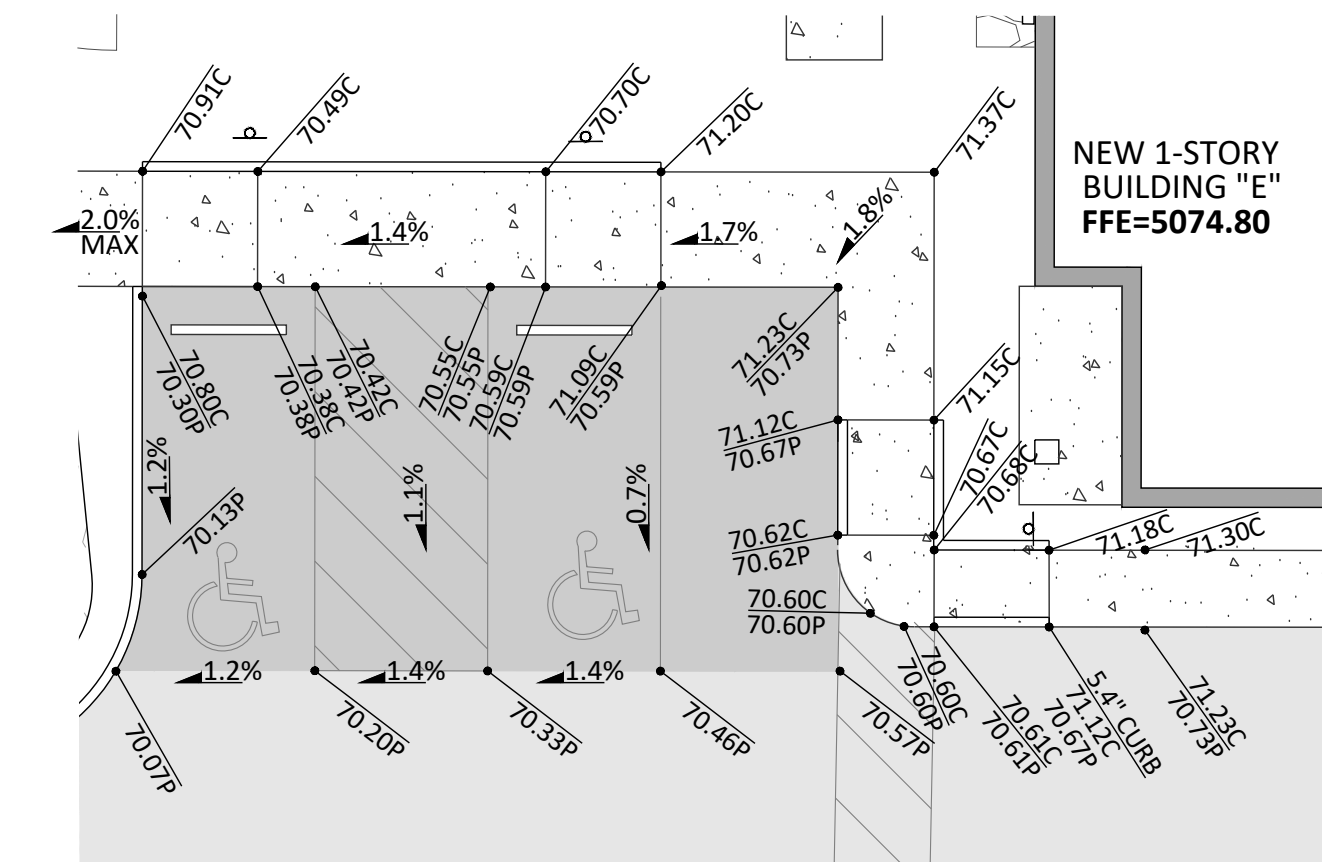


Figure 10 is a typical floor plan of the new one-story building "E". The plan shows a central vertical corridor and four wings. Design loads are indicated by numbers in circles at various points along the perimeter and at the center of the wings. Slopes are indicated by percentages along the central corridor. The plan includes a small inset showing a corner detail of the building's foundation or wall.

NEW 1-STORY BUILDING "E" FFE=5074.80

NEW 1-STORY BUILDING "E" FFE=5074.80

GRADING DETAIL 3

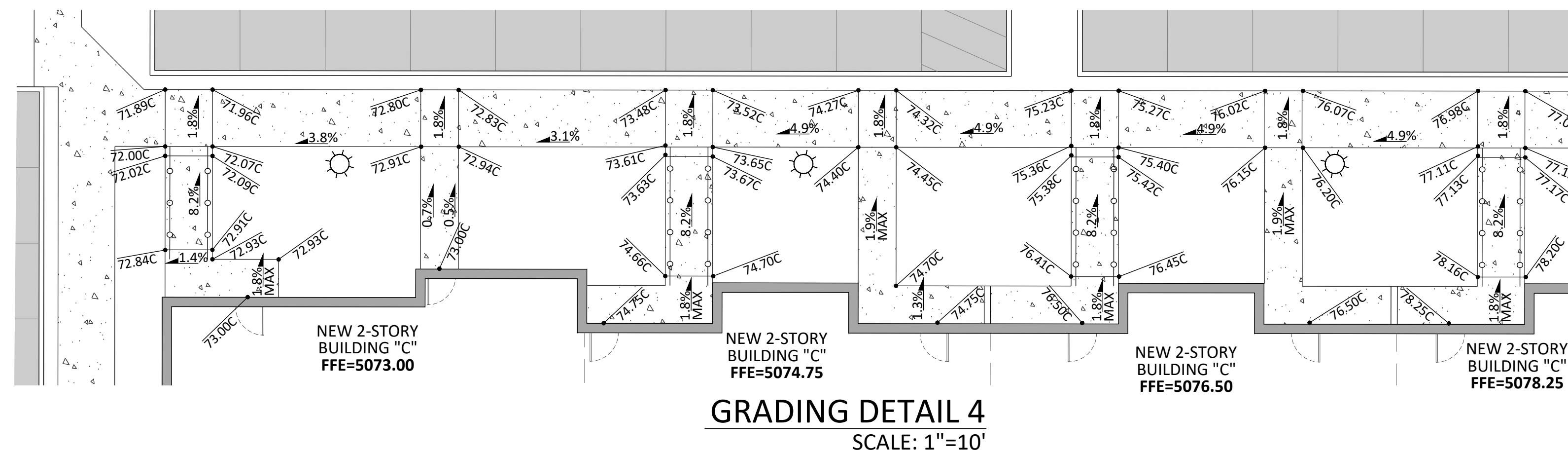
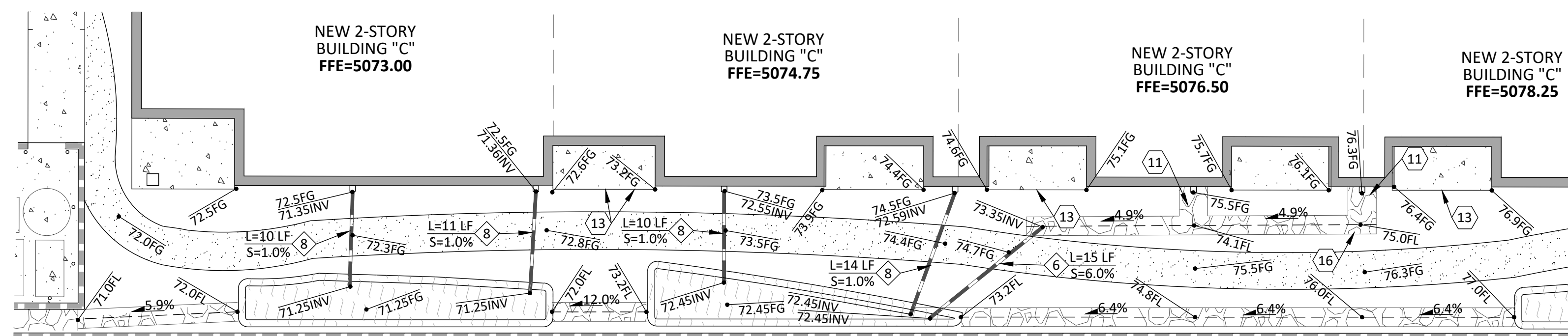
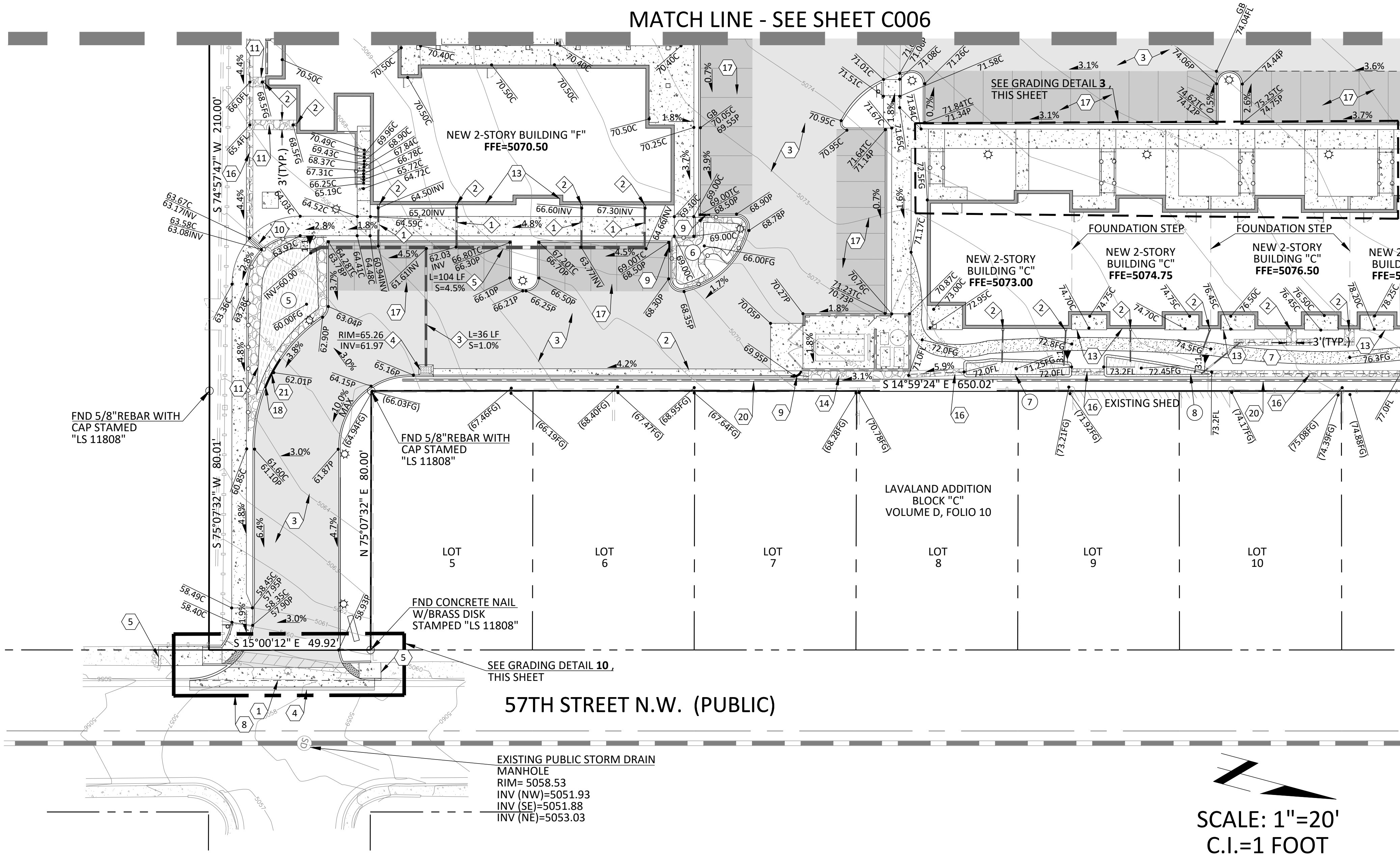
SCALE: 1"=10'

- 1 TOTAL VOLUME = 380 CF
TOTAL PONDING DEPTH = 6"
MAX 3:1 SIDE SLOPES
- 2 TOTAL VOLUME = 692 CF
TOTAL PONDING DEPTH = 1.0'
MAX 3:1 SIDE SLOPES
- 3 TOTAL VOLUME = 531 CF
TOTAL PONDING DEPTH = 1.5 '
1:1 MAX GROUTED RIP RAP SIDE SLOPES
- 4 TOTAL VOLUME = 554 CF
TOTAL PONDING DEPTH = 1.0'
MAX 3:1 SIDE SLOPES

-  **STORM DRAIN KEYNOTES**

 - 2 NEW ROOF DRAIN. SEE BUILDING PLAN FOR DETAIL.
 - 3 NEW 6" HDPE STORM DRAIN PIPE. SEE KEYNOTE FOR LENGTH AND SLOPE.
 - 7 NEW 6" HDPE STORM DRAIN PIPE WITH GRATE COVER AT INLET LOCATION. SEE KEYNOTE FOR LENGTH AND SLOPE.





KEYNOTES

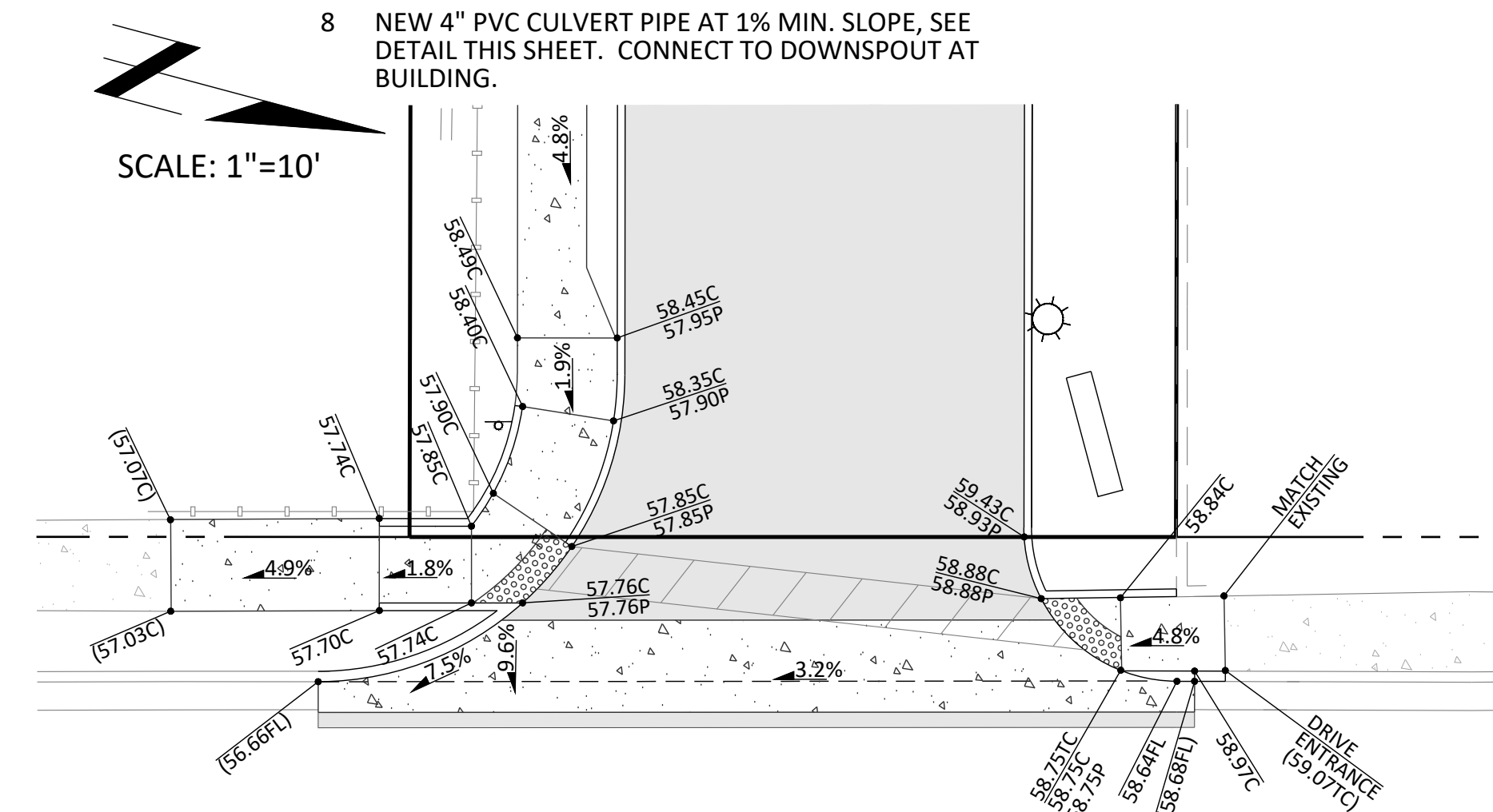
- 1 NEW CONCRETE VALLEY GUTTER PER COA STD DWG 2420.
- 2 NEW CURB & GUTTER PER COA STD. DRAWING 2415A. SEE DETAIL A, SHEET C010.
- 3 NEW 3" AC PAVEMENT OVER 4" ABC. COMPACT ABC TO 100%. SEE DETAIL B, SHEET C010.
- 4 SAWCUT A MINIMUM OF 12" INTO THE EXISTING PAVEMENT. REMOVE EXISTING ASPHALT, TACK AND JOIN.
- 5 CONNECT TO EXISTING SIDEWALK.
- 7 NEW STABILIZED CRUSHER PATH. SEE DETAIL C, SHEET C010.
- 8 NEW ENTRANCE WITH ADA ACCESSIBLE PATH AND RAMPS TO BE CONSTRUCTED PER SEPARATE PLAN AND BY PUBLIC WORK ORDER. GRADES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
- 9 NEW 3' CURB OPENING PER DETAIL D, SHEET C010.
- 10 NEW 6" SIDEWALK SCUPPER. SEE DETAIL E, SHEET C010.
- 11 NEW GROUTED RIP RAP. SEE RIP RAP NOTES, SHEET C003.
- 13 BUILDING STEM WALL REQUIRED PER BUILDING PLANS.
- 14 NEW GROUTED 8" TO 12" ANGULAR STONE.
- 16 NEW 2' GROUTED RIP RAP SWALE. SEE DETAIL G, SHEET C010.
- 17 NEW 2.5" AC PAVEMENT OVER 4" ABC. COMPACT ABC TO 100%. SEE DETAIL I, SHEET C010.
- 18 NEW 10' CURB OPENING PER DETAIL D, SHEET C010.
- 20 NEW 3' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.
- 21 NEW "TYPE A" BOLLARD. SEE DETAIL J, SHEET C010.

DEPRESSED WATER HARVESTING/BASIN AREA

- 5 TOTAL VOLUME = 1,177 CF
TOTAL PONDING DEPTH = 1.89'
1:1 MAX GROUTED RIP RAP SIDE SLOPES
- 6 TOTAL VOLUME = 678 CF
TOTAL PONDING DEPTH = 2.5'
1:1 MAX GROUTED RIP RAP SIDE SLOPES
- 7 TOTAL VOLUME = 109 CF
TOTAL PONDING DEPTH = 9"
MAX 3:1 SIDE SLOPES
- 8 TOTAL VOLUME = 89 CF
TOTAL PONDING DEPTH = 9"
MAX 3:1 SIDE SLOPES

STORM DRAIN KEYNOTES

- 1 NEW 6" HDPE STORM DRAIN PIPE AT 1% MIN. SLOPE. CONNECT TO DOWNSPOUT AT BUILDING.
- 2 NEW ROOF DRAIN. SEE BUILDING PLAN FOR DETAIL.
- 3 NEW 6" HDPE STORM DRAIN PIPE. SEE KEYNOTE FOR LENGTH AND SLOPE.
- 4 NEW SINGLE "D" CATCH BASIN PER COA DWG. 2206.
- 5 NEW 8" HDPE STORM DRAIN PIPE. SEE KEYNOTE FOR LENGTH AND SLOPE.
- 6 NEW 4" PVC CULVERT PIPE. SEE KEYNOTE FOR LENGTH AND SLOPE.
- 8 NEW 4" PVC CULVERT PIPE AT 1% MIN. SLOPE, SEE DETAIL THIS SHEET. CONNECT TO DOWNSPOUT AT BUILDING.



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ENGINEER



PROJECT

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

100% CONSTRUCTION
DOCUMENTS

REVISIONS

04/06/2018 ADDENDUM 002:
ALL SHEETS REISSUED

DRAWN BY JR

REVIEWED BY KMH

DATE 04/06/2018

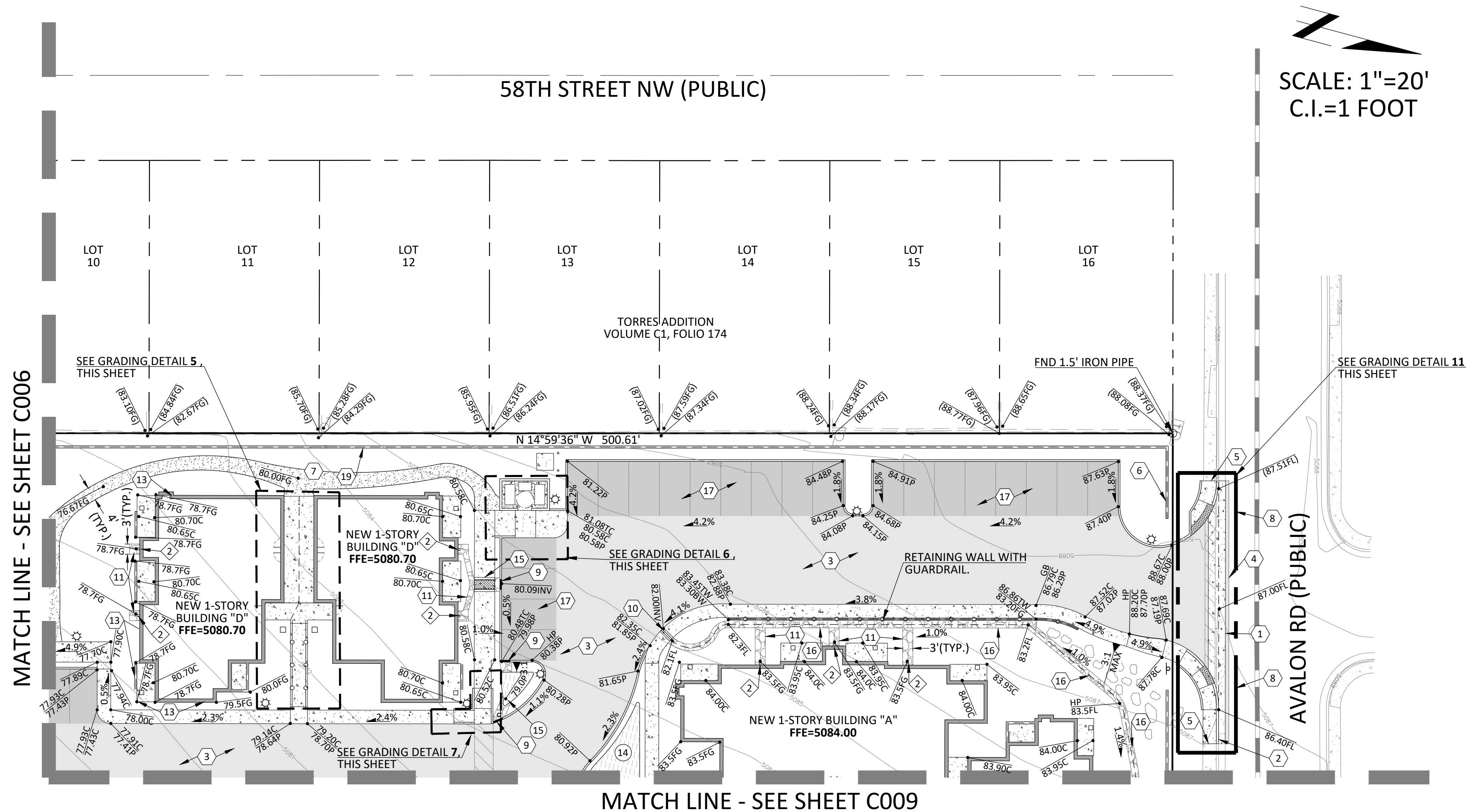
PROJECT NO 14-0701

DRAWING NAME

GRADING AND DRAINAGE
GRADING +
DRAINAGE - (NW)

SHEET NO

C008



SCALE: 1"=20'
C.I.=1 FOOT

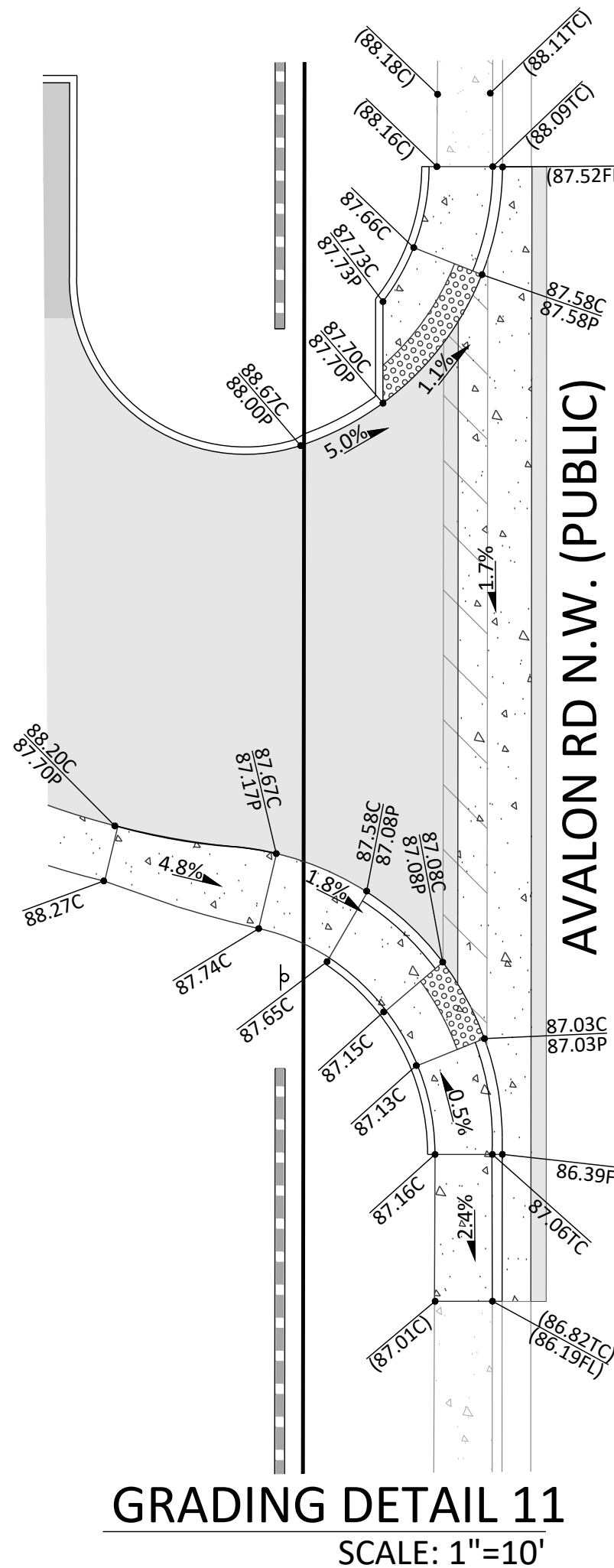
KEYNOTES

- NEW CONCRETE VALLEY GUTTER PER COA STD DWG 2420.
- NEW CURB & GUTTER PER COA STD. DRAWING 2415A. SEE DETAIL A, SHEET C010.
- NEW 3" AC PAVEMENT OVER 4" ABC. COMPACT ABC TO 100%. SEE DETAIL B, SHEET C010.
- SAWCUT A MINIMUM OF 12" INTO THE EXISTING PAVEMENT. REMOVE EXISTING ASPHALT, TACK AND JOIN.
- CONNECT TO EXISTING SIDEWALK.
- NEW 6" MASONRY & PICKET FENCE SITE WALL. SEE BUILDING PLANS FOR DETAILS.
- NEW STABILIZED CRUSHER PATH. SEE DETAIL C, SHEET C010.
- NEW ENTRANCE WITH ADA ACCESSIBLE PATH AND RAMPS TO BE CONSTRUCTED BY SEPARATE PLAN AND PUBLIC WORK ORDER. GRADES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
- NEW 3' CURB OPENING PER DETAIL D, SHEET C010.
- NEW 6" SIDEWALK SCUPPER. SEE DETAIL E, SHEET C010.
- NEW GROUTED RIP RAP. SEE RIP RAP NOTES, SHEET C003.
- BUILDING STEM WALL REQUIRED (PER BUILDING PLANS).
- NEW 2.5' SIDEWALK SCUPPER. SEE DETAIL F, SHEET C010.
- NEW 2' GROUTED RIP RAP SWALE. SEE DETAIL G, SHEET C010.
- NEW 2.5" AC PAVEMENT OVER 4" ABC. COMPACT ABC TO 100%. SEE DETAIL I, SHEET C010.
- NEW 4' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.

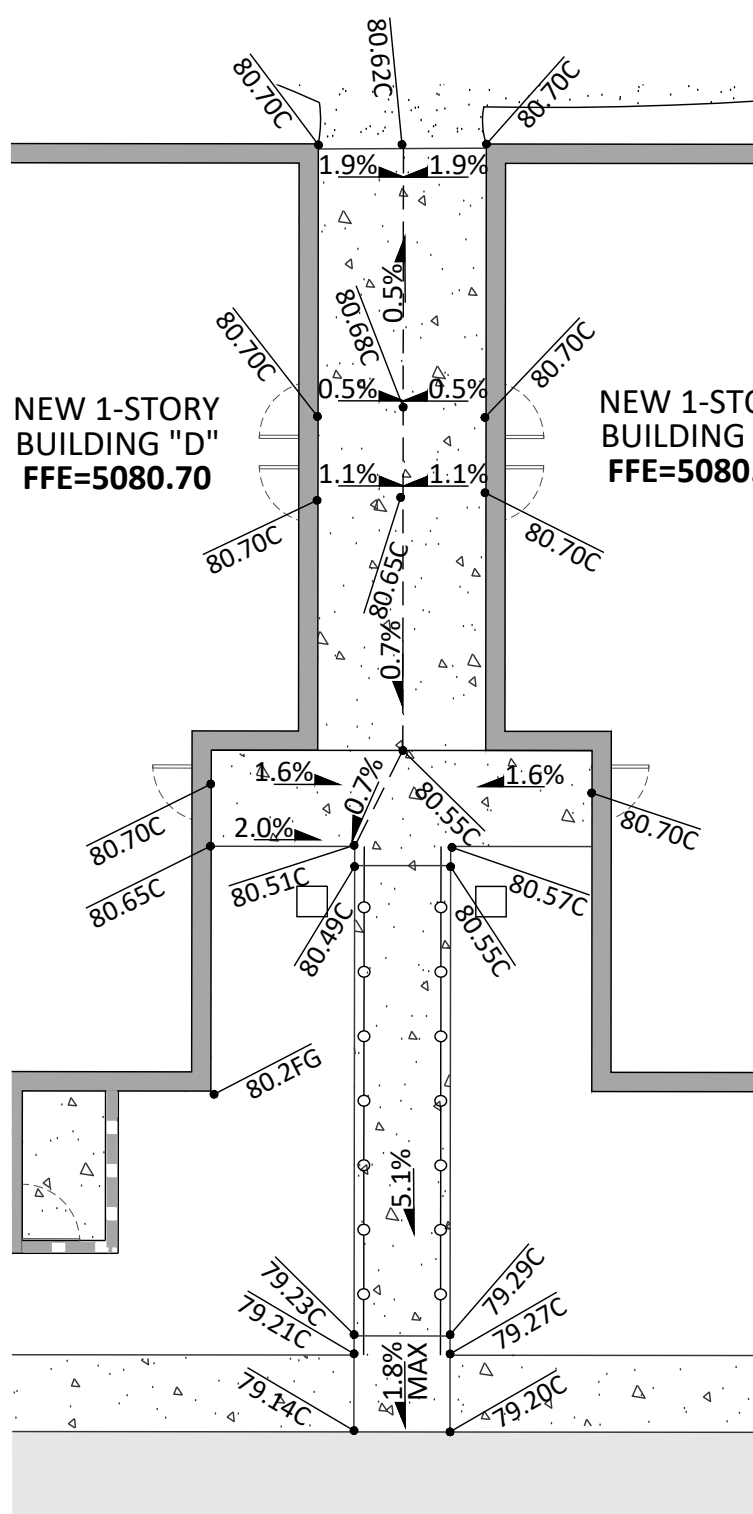
STORM DRAIN KEYNOTES

- NEW ROOF DRAIN. SEE BUILDING PLAN FOR DETAIL.
- NEW 4" PVC CULVERT PIPE AT 1% MIN. SLOPE. SEE BUILDING PLANS.
- DEPRESSED WATER HARVESTING BASIN AREA
- TOTAL VOLUME = 260 CF
TOTAL PONDING DEPTH = 6"
MAX 3:1 SIDE SLOPES
- TOTAL VOLUME = 122 CF
TOTAL PONDING DEPTH = 1.0'
MAX 3:1 SIDE SLOPES

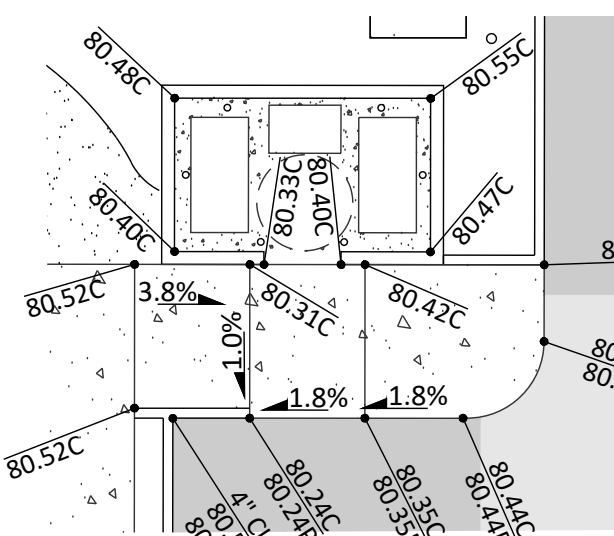
SCALE: 1"=10'



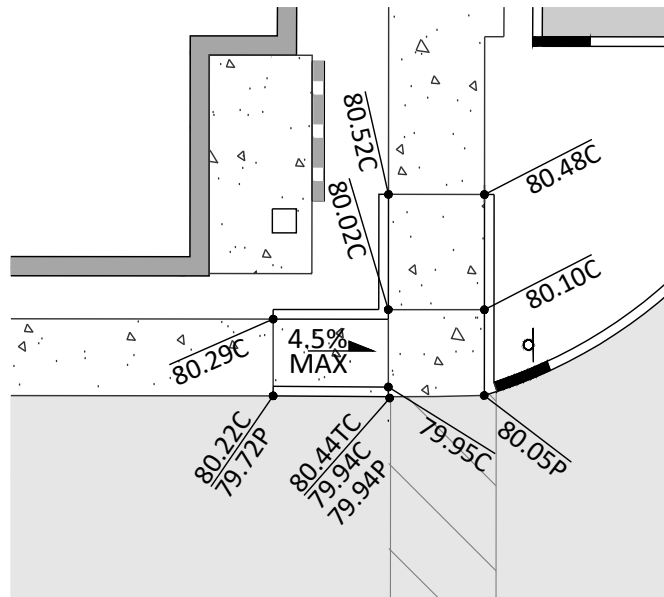
GRADING DETAIL 11
SCALE: 1"=10'



GRADING DETAIL 5
SCALE: 1"=10'



GRADING DETAIL 6
SCALE: 1"=10'



GRADING DETAIL 7
SCALE: 1"=10'



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ENGINEER

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ENGINEER



PROJECT

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

100% CONSTRUCTION
DOCUMENTS

REVISIONS

04/06/2018 ADDENDUM 002:
ALL SHEETS REISSUED

DRAWN BY JR

REVIEWED BY KMH

DATE 04/06/2018

PROJECT NO 14-0701

DRAWING NAME

GRADING AND DRAINAGE
GRADING +
DRAINAGE - (NE)

SHEET NO

C009

KEYNOTES

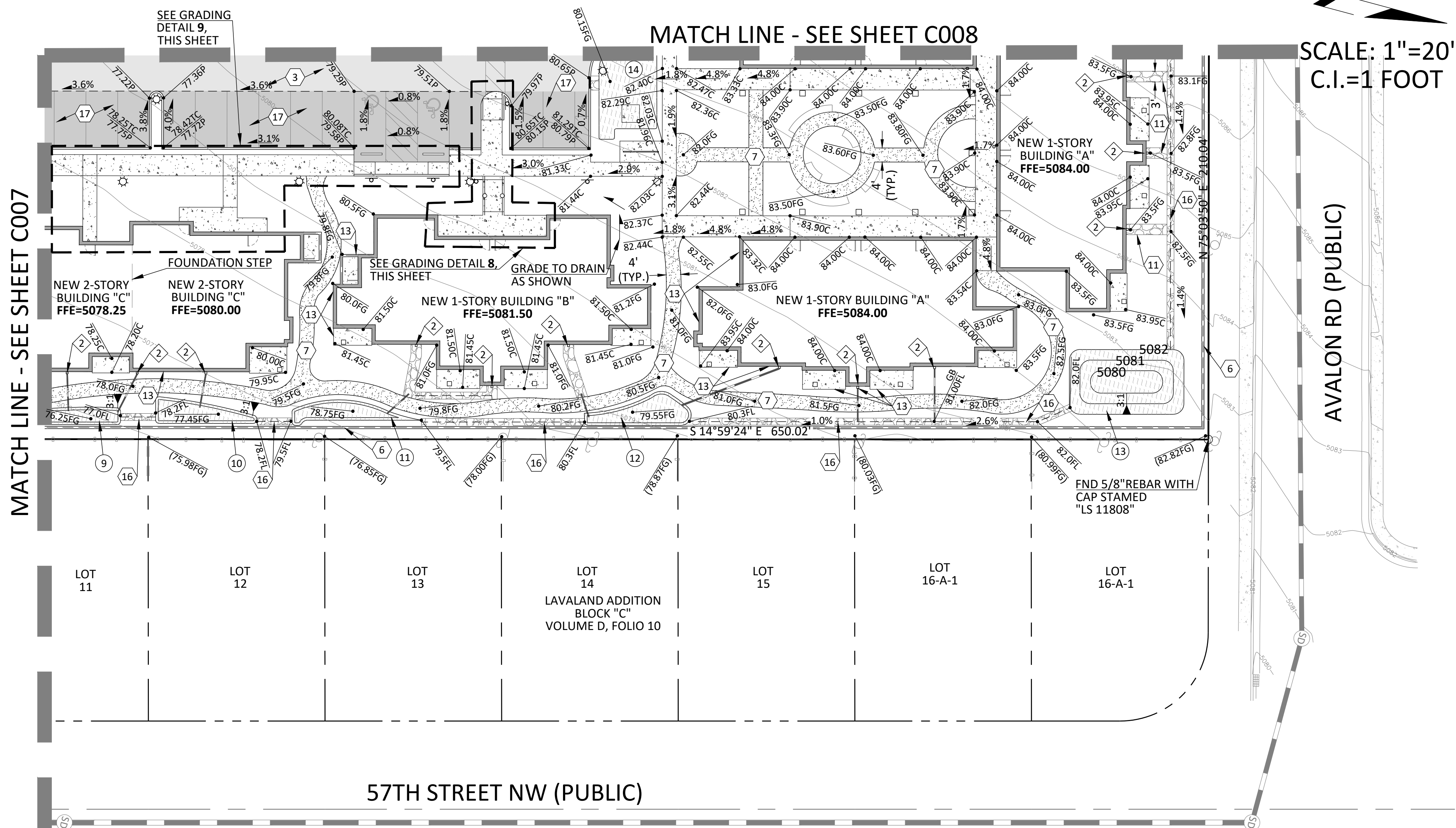
- 3 NEW 3" AC PAVEMENT OVER 4" ABC. COMPACT ABC TO 100%. SEE DETAIL B, SHEET C010.
- 6 NEW 6' MASONRY & PICKET FENCE SITE WALL. SEE BUILDING PLANS FOR DETAILS.
- 7 NEW STABILIZED CRUSHER PATH. SEE DETAIL C, SHEET C010.
- 11 NEW GROUTED RIP RAP. SEE RIP RAP NOTES, SHEET C003.
- 13 BUILDING STEM WALL REQUIRED (PER BUILDING PLANS).
- 16 NEW 2' GROUTED RIP RAP SWALE. SEE DETAIL G, SHEET C010.
- 17 NEW 2.5" AC PAVEMENT OVER 4" ABC. COMPACT ABC TO 100%. SEE DETAIL I, SHEET C010.

STORM DRAIN KEYNOTES

- 2 NEW ROOF DRAIN. SEE BUILDING PLAN FOR DETAIL.
- 6 NEW 4" PVC CULVERT PIPE, SEE DETAIL THIS SHEET. SEE KEYNOTE FOR LENGTH AND SLOPE.
- 8 NEW 4" PVC CULVERT PIPE AT 1% MIN. SLOPE, SEE DETAIL THIS SHEET. CONNECT TO DOWNSPOUT AT BUILDING.

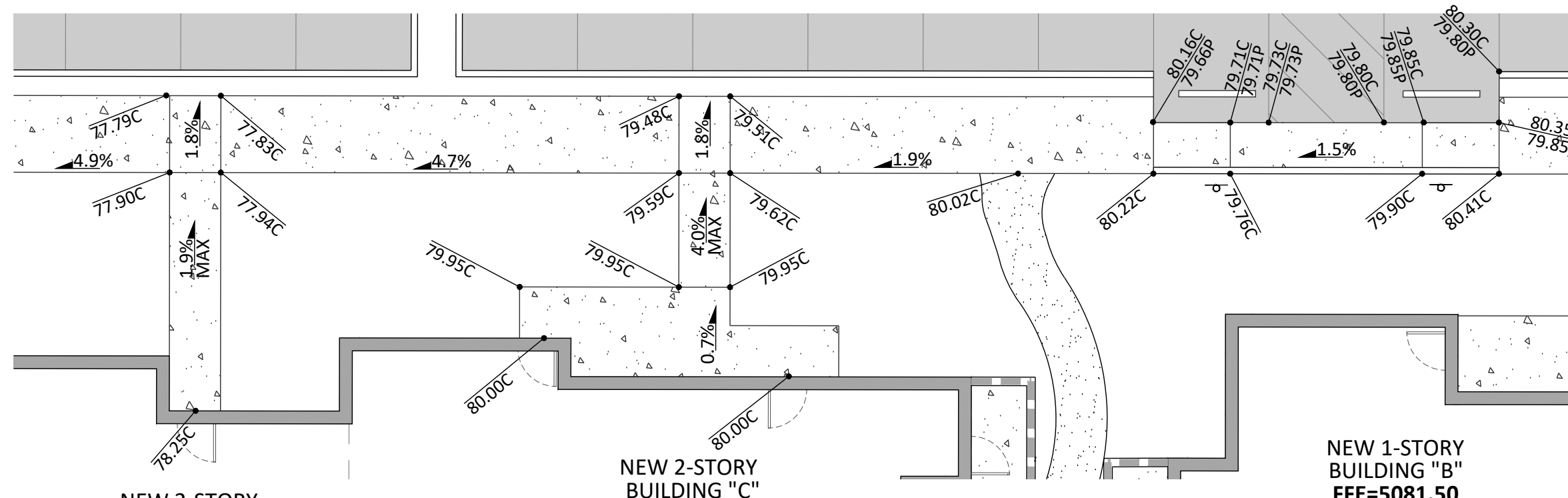
DEPRESSED WATER HARVESTING/BASIN AREA

- | | |
|---|---|
| 9 TOTAL VOLUME = 69 CF
TOTAL PONDING DEPTH = 9"
MAX 3:1 SIDE SLOPES | 13 TOTAL VOLUME = 660 CF
TOTAL PONDING DEPTH = 2"
MAX 3:1 SIDE SLOPES |
| 10 TOTAL VOLUME = 95 CF
TOTAL PONDING DEPTH = 9"
MAX 3:1 SIDE SLOPES | 14 TOTAL VOLUME = 260 CF
TOTAL PONDING DEPTH = 6"
MAX 3:1 SIDE SLOPES |
| 11 TOTAL VOLUME = 88 CF
TOTAL PONDING DEPTH = 9"
MAX 3:1 SIDE SLOPES | |
| 12 TOTAL VOLUME = 142 CF
TOTAL PONDING DEPTH = 9"
MAX 3:1 SIDE SLOPES | |



GRADING AND DRAINAGE DETAIL

SCALE: 1"=10'

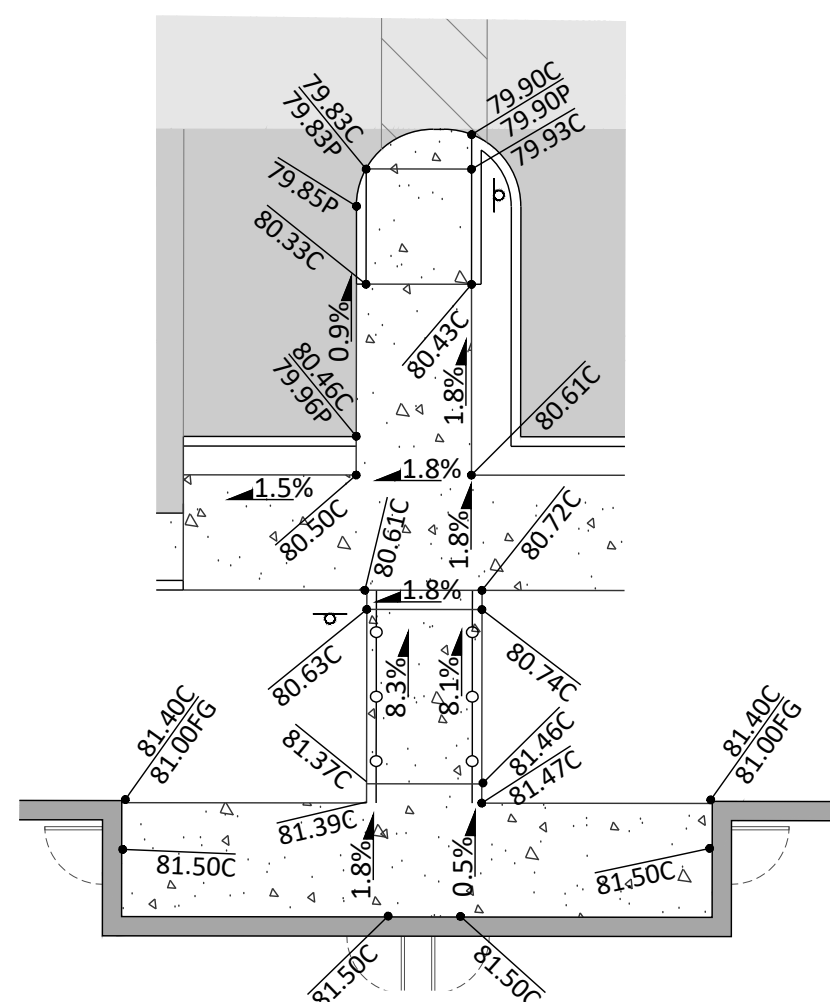


GRADING DETAIL 9

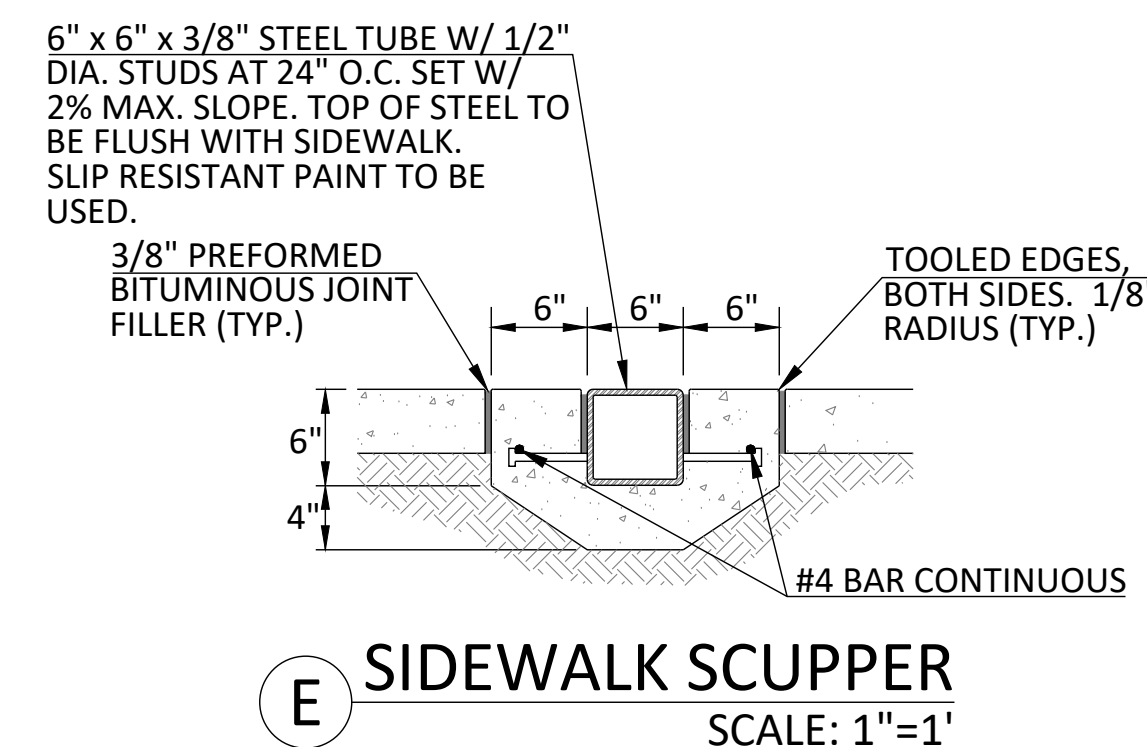
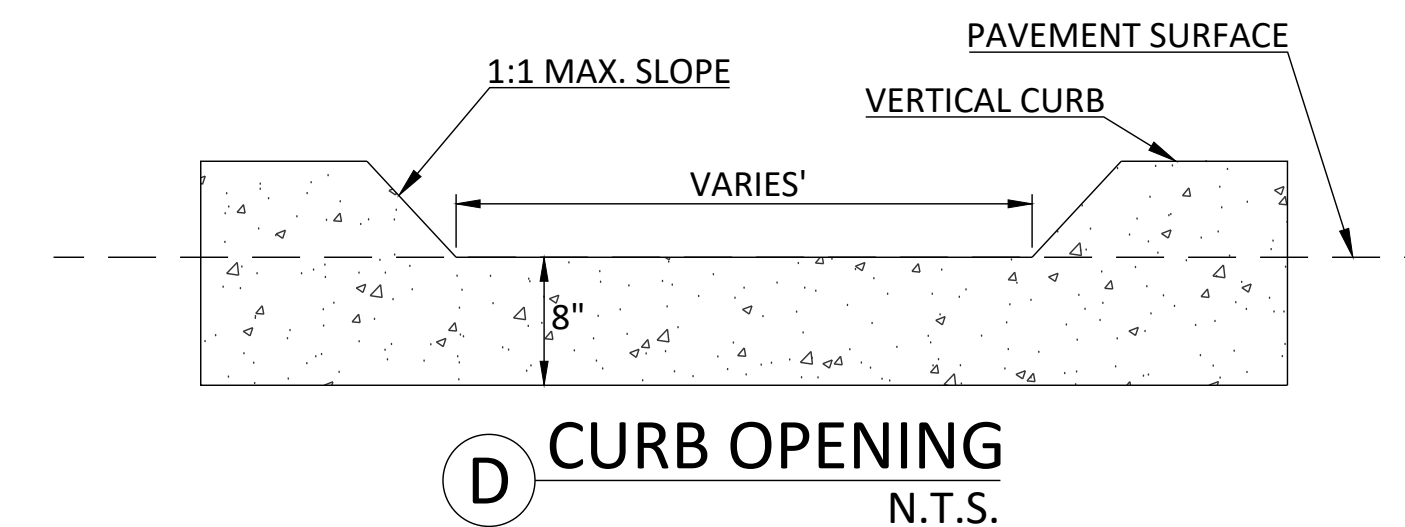
SCALE: 1"=10'

GRADING DETAIL 8

SCALE: 1"=10'

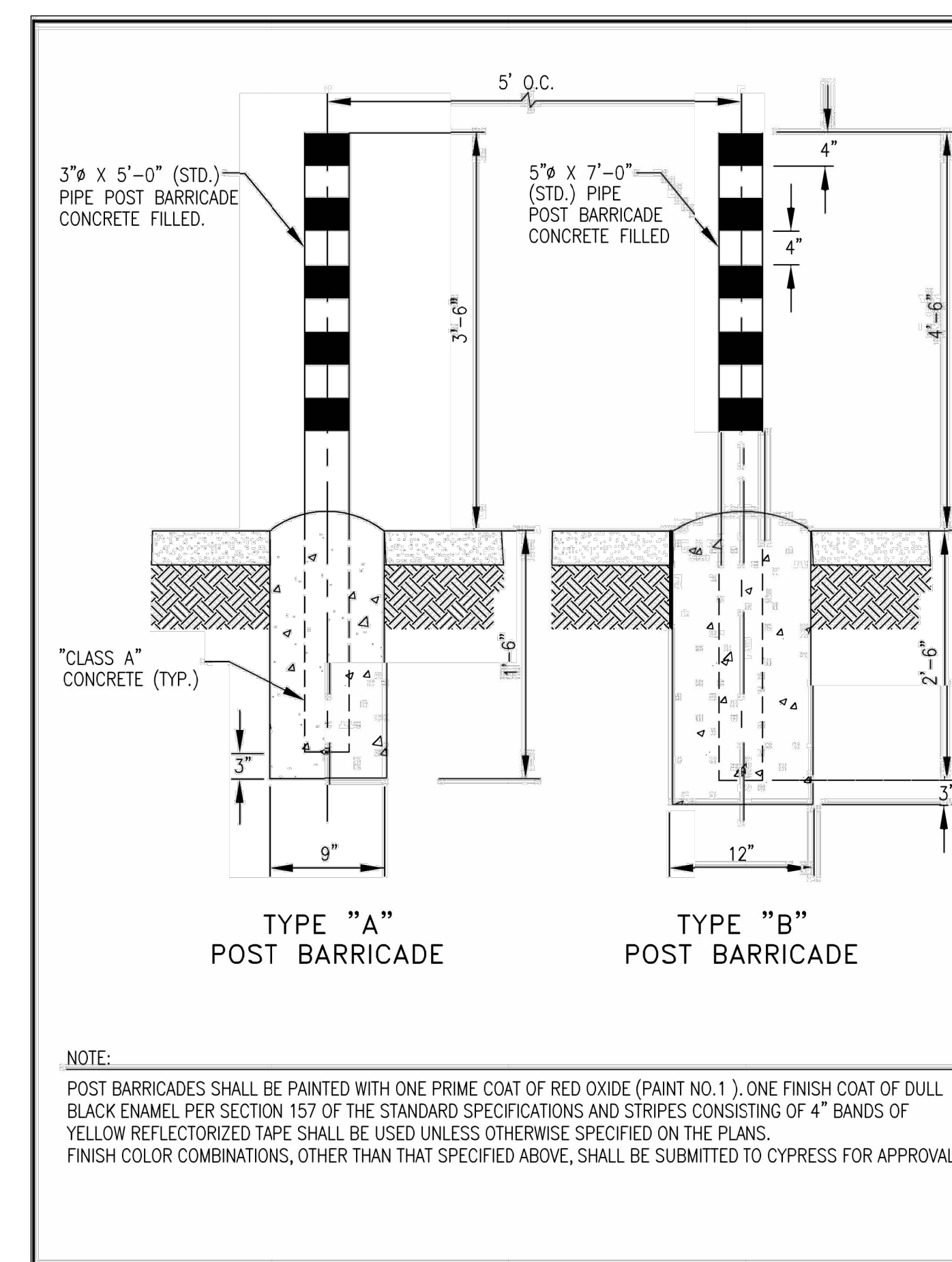
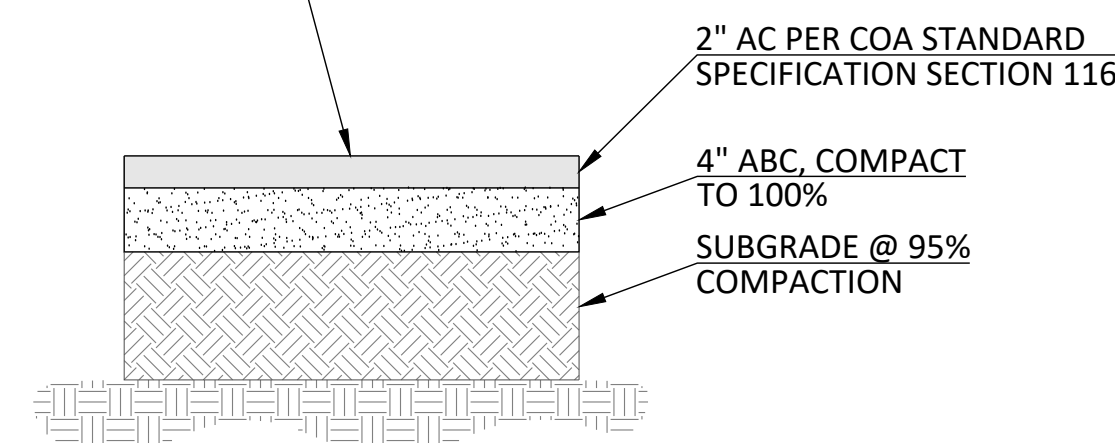
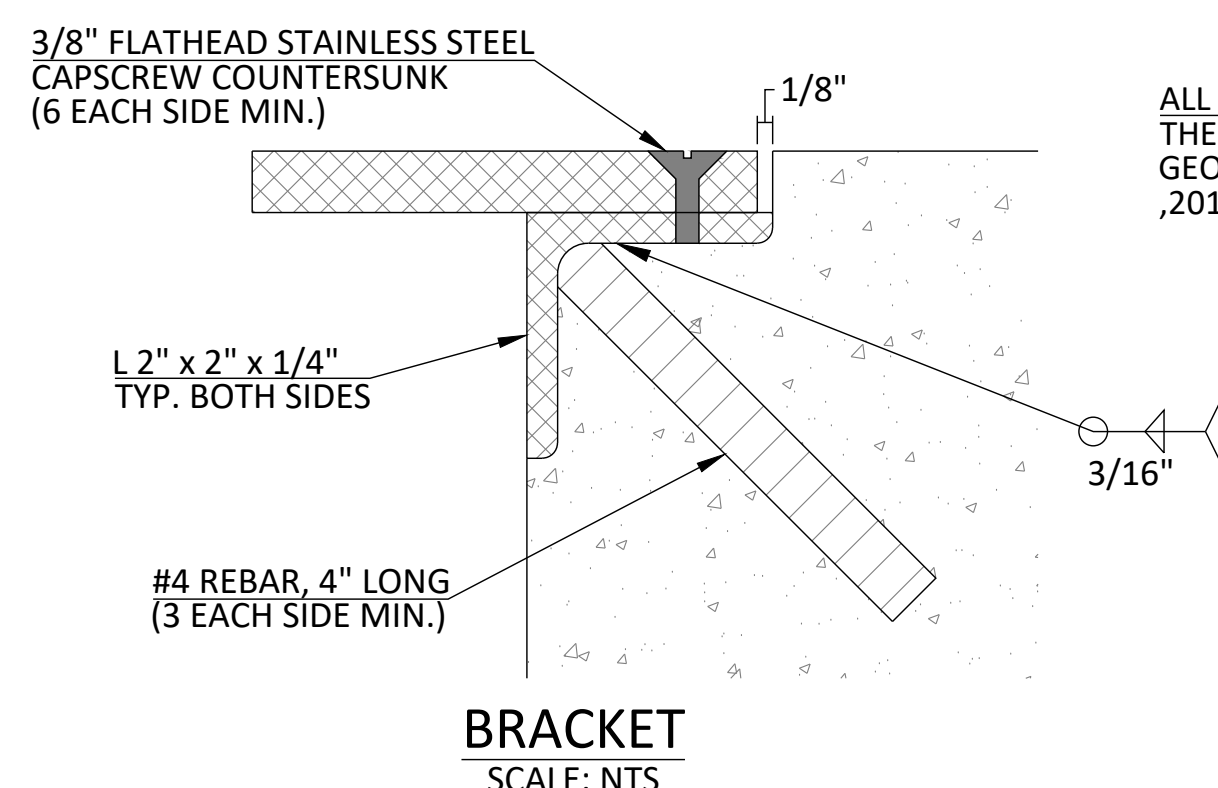
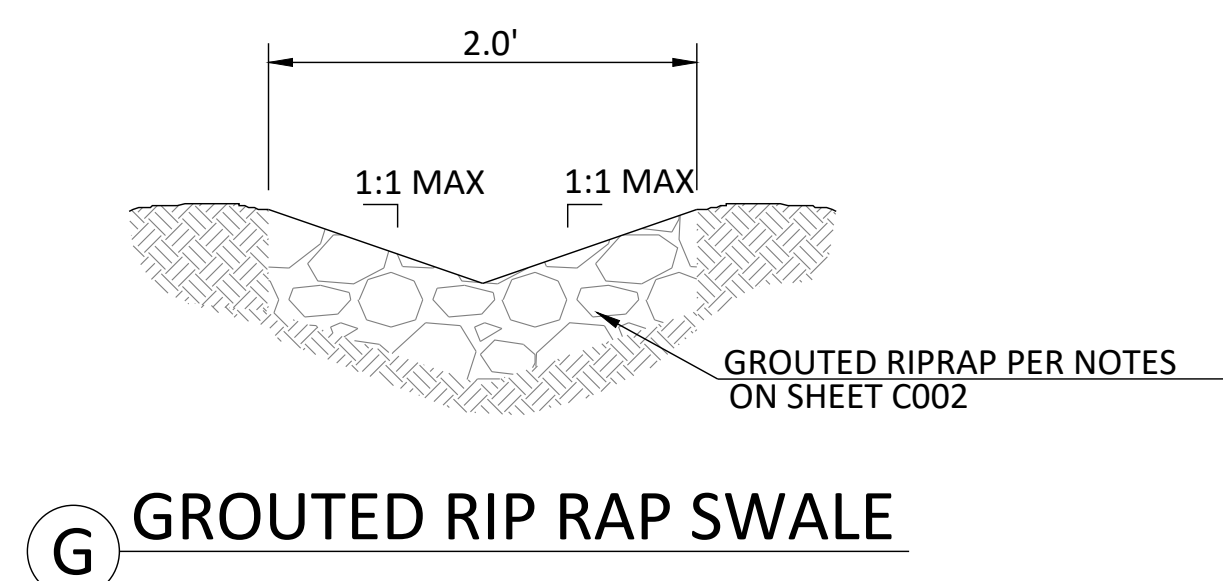
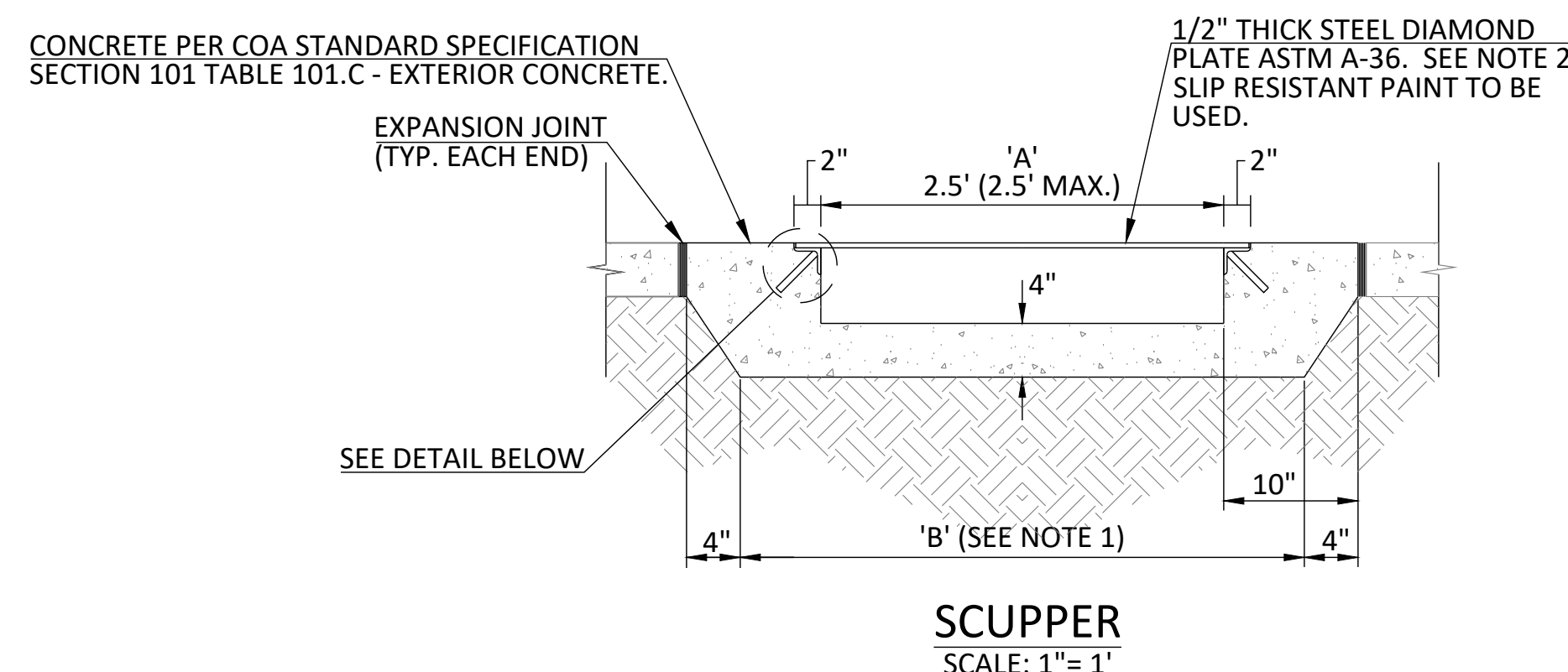


FOR LOCATE REQUESTS CALL:
811 OR 1-800-321-ALERT (2537)
EXCAVATORS/CONTRACTORS
CHOOSE OPTION 2



Traffic Loads	Alternate	Prepared Subgrade (inches)	Asphaltic Concrete (inches)	Concrete Pavement (inches)
Light Vehicles or Low Volume Traffic Areas (0 to 90 psi tire pressures)	A ¹	8.0	4.0	2.0
	B ²	8.0	3.0	
	C ³	8.0	8.0	4.5 ⁴
Heavy Vehicle Areas (45 to 90 psi tire pressures)	A ¹	8.0	4.0	3.0
	B ²	8.0	8.0	4.5
	C ³	8.0	4.0	5.5 ⁴
Very Heavy Vehicle Areas (90 to 135 psi tire pressures)	A ¹	8.0	4.0	4.0
	B ²	8.0	8.0	5.5
	C ³	8.0		7.0 ⁴

¹10 to 15 year design life, with typical maintenance



Traffic Loads	Alternate	Prepared Subgrade (inches)	ABC (inches)	Asphaltic Concrete (inches)	Concrete Pavement (inches)
Light Vehicles or Low Volume Traffic Areas (0 to 45 psi tire pressures)	A ^a 8.0	A ^a 4.0	2.0		
	B ^a 8.0		3.5		4.5 ^a
	C ^a 8.0				
Heavy Vehicle Areas (45 to 90 psi tire pressures)	A ^a 8.0	4.0	3.0		
	B ^a 8.0		4.5		
	C ^a 8.0				5.5 ^a
	A ^a 8.0	4.0	4.0		
Very Heavy Vehicle Areas (90 to 135 psi tire pressures)	B ^a 8.0		5.5		
	C ^a 8.0				7.0 ^a

^a 10 to 15 year design life, with typical maintenance



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

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

NOTES:

1. DIMENSION 'B' EQUALS 'A'+1'-0".
2. STEEL DIAMOND PLATE SHALL BE PAINTED PER COA STD. SPEC. SECTION 157.
3. HEIGHT EQUALS CURB FACE HEIGHT.
4. FOR CURB AND GUTTER, USE 2 TRANSITIONS TO VERTICAL CURB.
5. FOR MULTIPLE SCUPPERS PROVIDE 4" BETWEEN ADJACENT PANELS OF STEEL DIAMOND PLATE. INTERMEDIATE POSTS FOR BARRICADE RAILINGS SHALL BE PLACED MIDWAY IN 4" AREA BETWEEN ADJACENT PANELS.
6. STEEL DIAMOND PLATE SHALL BE DELIVERED AS ONE PIECE, CONFORMING TO THE REQUIRED SCUPPER DIMENSIONS. PLATES SHALL NOT BE SPLICED.

NOTE:

POST BARRICADES SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO.1), ONE FINISH COAT OF DULL BLACK ENAMEL PER SECTION 157 OF THE STANDARD SPECIFICATIONS AND STRIPES CONSISTING OF 4" BANDS OF YELLOW REFLECTORIZED TAPE SHALL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS. FINISH COLOR COMBINATIONS, OTHER THAN THAT SPECIFIED ABOVE, SHALL BE SUBMITTED TO CYPRESS FOR APPROVAL.

BOLLARD
SCALE: N.T.S.

PROJECT NO	14-070
------------	--------

GRADING AND DRAINAGE DETAILS

SHEET NO

**DEKKER
PERICH
SABATINI****7601** JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109

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ENGINEER

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*Strength + Sustainability*2030 east speedway boulevard
suite #110
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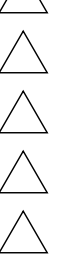
ENGINEER



PROJECT

**GENERATIONS
AT WEST MESA**
5710 Avalon Road, NW
Albuquerque, NM 87105100% CONSTRUCTION
DOCUMENTS

REVISIONS

04/06/2018 ADDENDUM 002:
ALL SHEETS REISSUED

DRAWN BY JR

REVIEWED BY KMH

DATE 04/06/2018

PROJECT NO 14-0701

DRAWING NAME

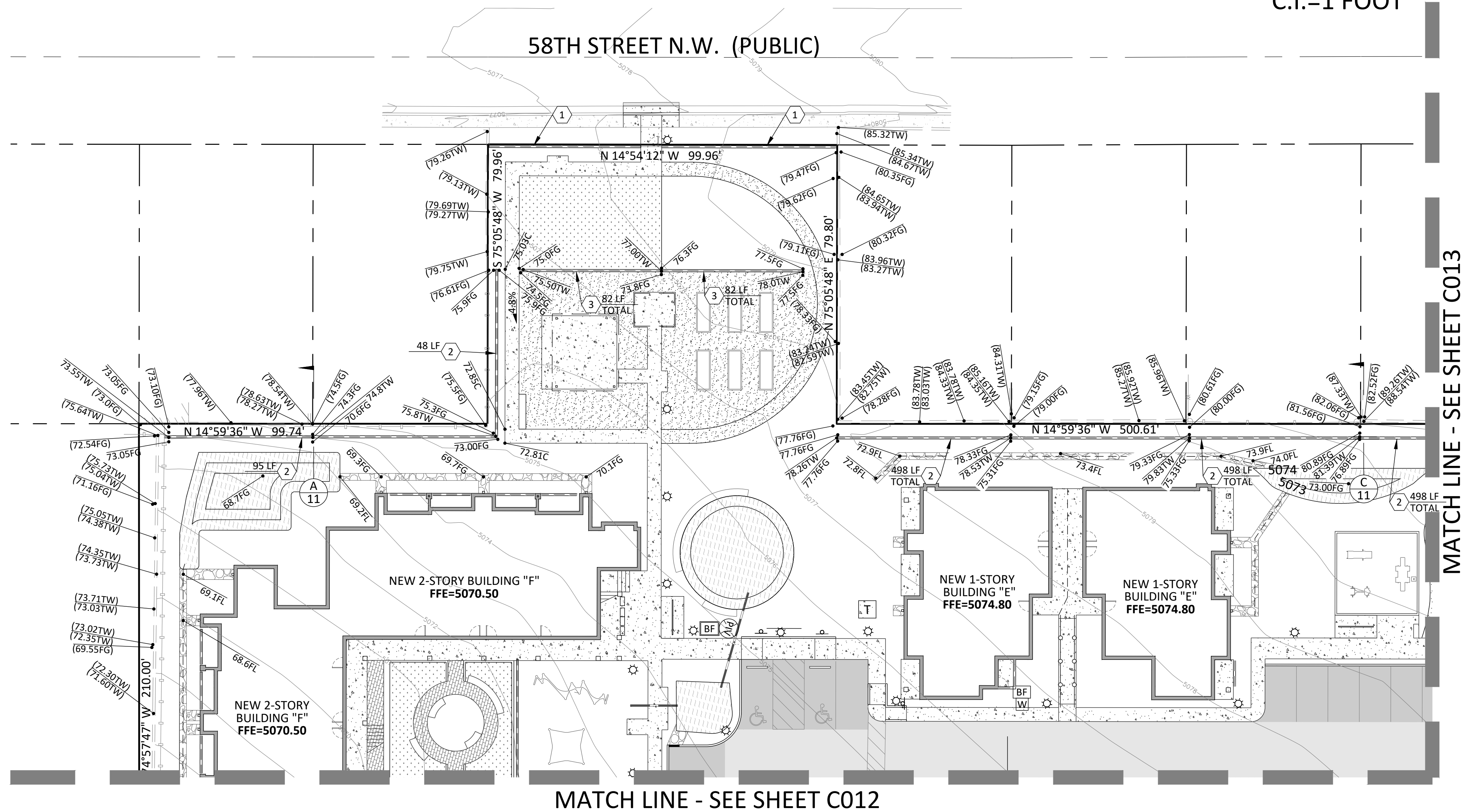
GRADING AND DRAINAGE
RETAINING WALL
EXHIBIT (SW)

SHEET NO

C011SCALE: 1"=20'
C.I.=1 FOOT

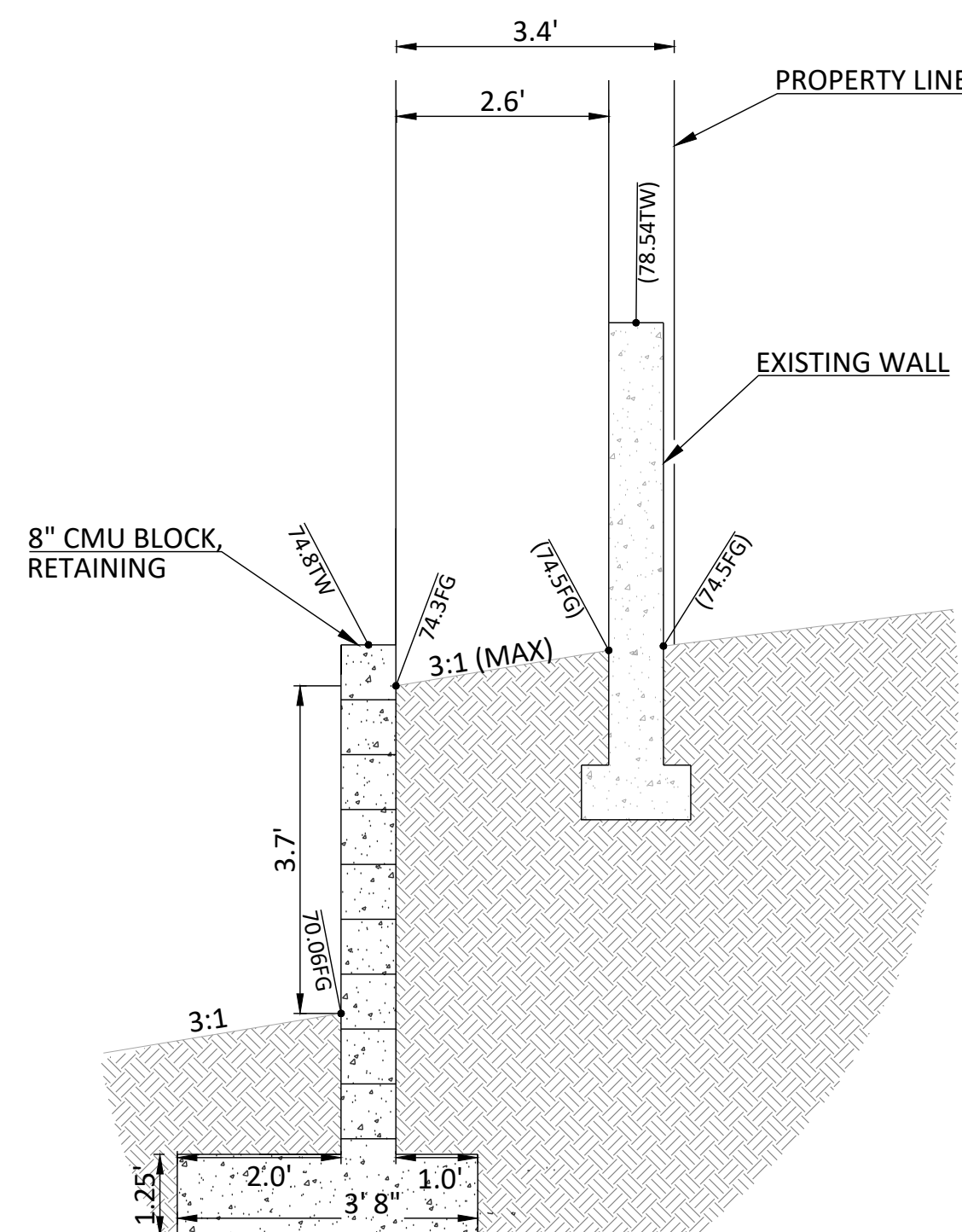
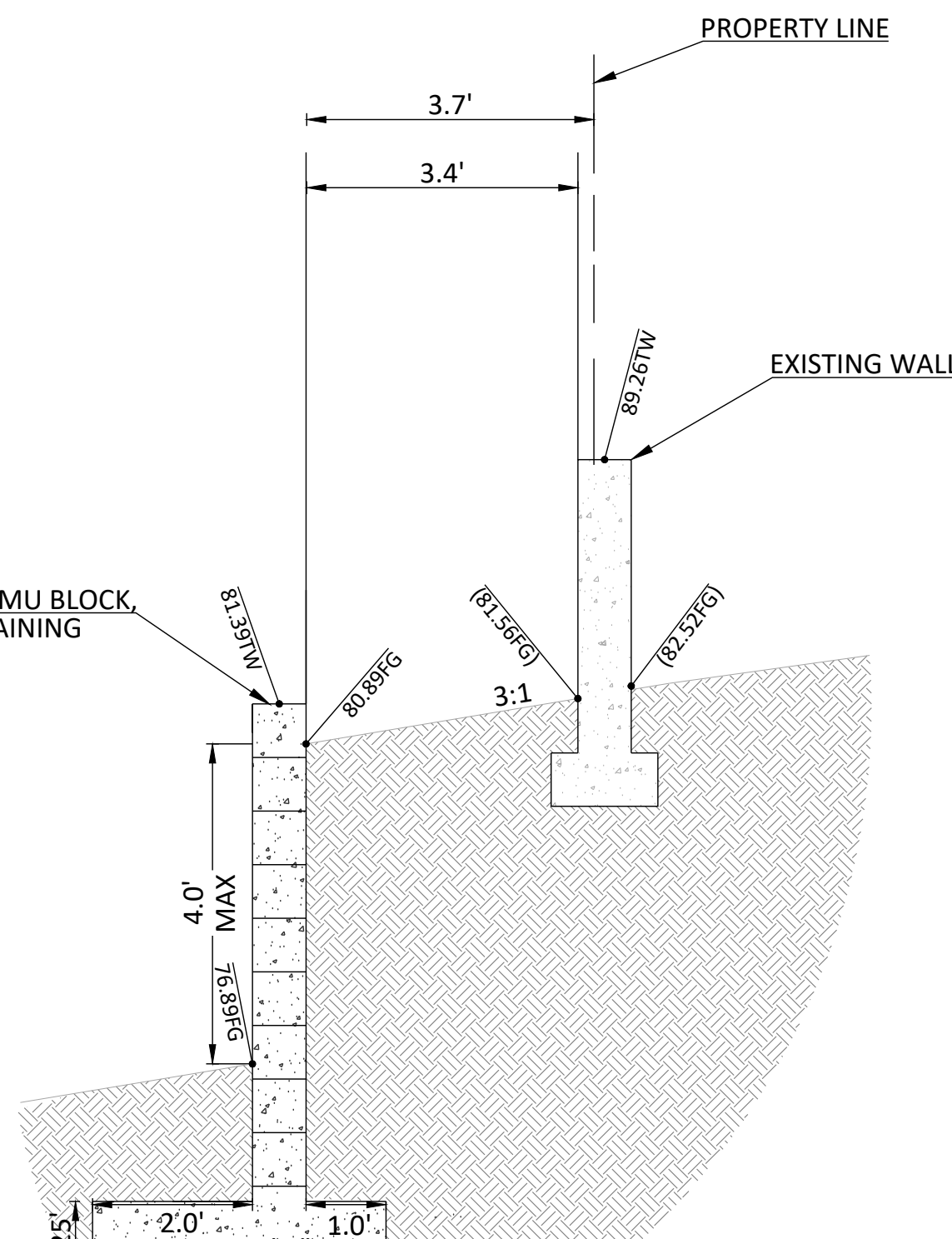
KEYNOTES

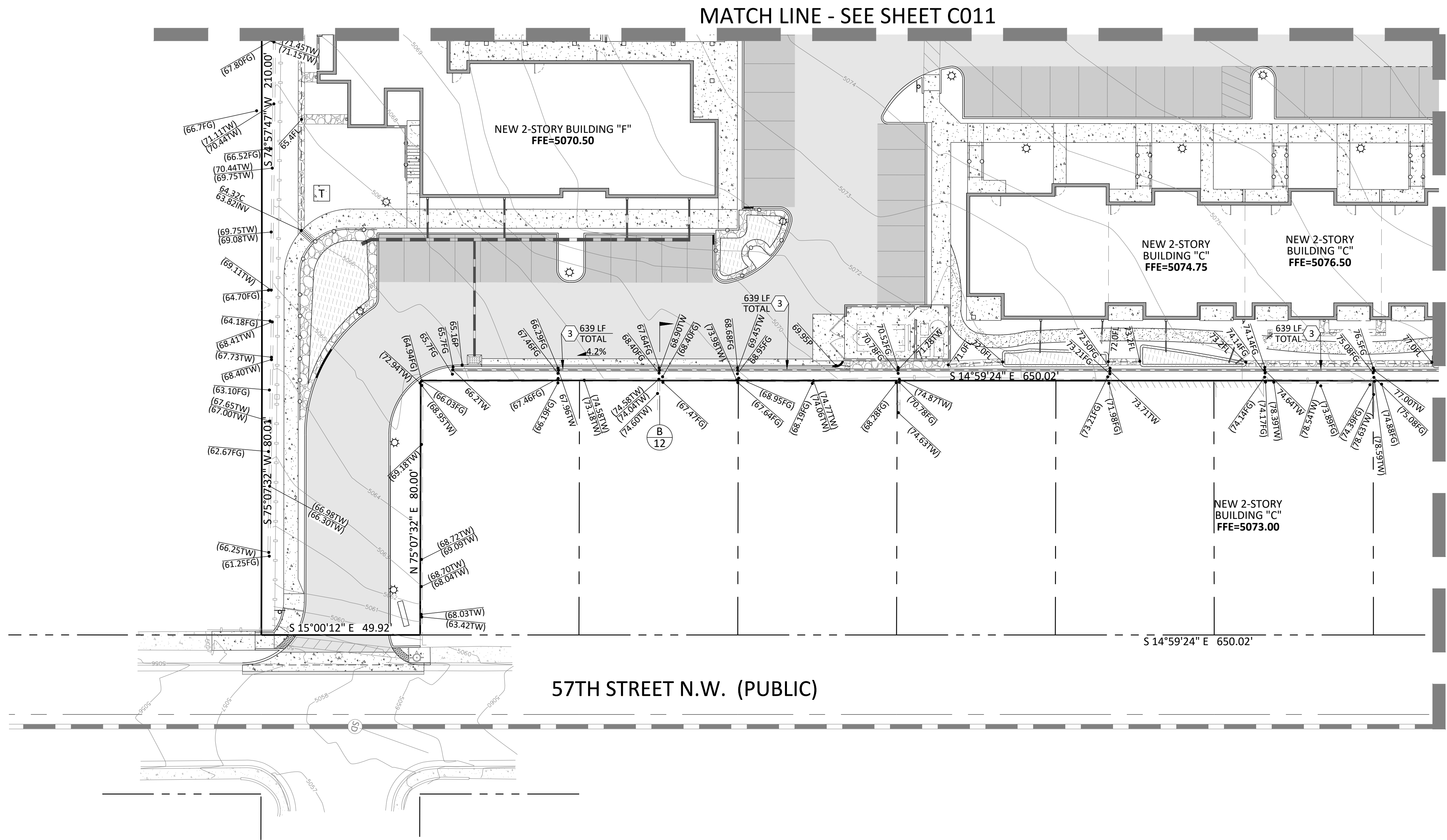
- 1 NEW 6' MASONRY & PICKET FENCE SITE WALL. SEE BUILDING PLANS FOR DETAILS.
- 2 NEW 4' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.
- 3 NEW 3' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.



MATCH LINE - SEE SHEET C012

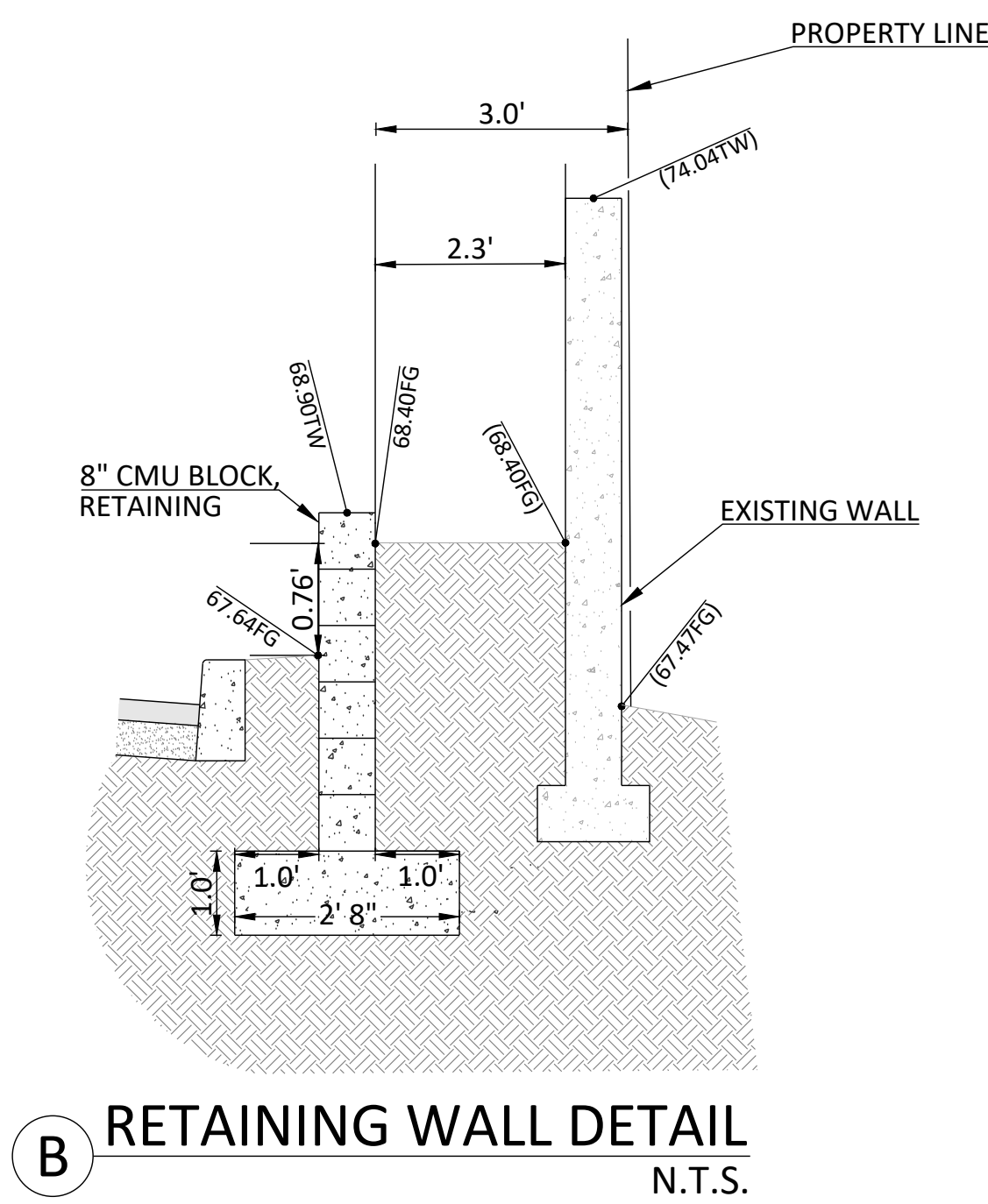
MATCH LINE - SEE SHEET C013

**A** RETAINING WALL DETAIL
N.T.S.**C** RETAINING WALL DETAIL
N.T.S.



SCALE: 1"=20'
C.I.=1 FOOT

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



ARCHITECTURE / DESIGN / INSPIRATION

DEKKER
PERICH
SABATINI

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ALBUQUERQUE, NM 87109
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PROJECT

GENERATIONS
AT WEST MESA
5710 Avalon Road, NW
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100% CONSTRUCTION
DOCUMENTS

REVISIONS
1 04/06/2018 ADDENDUM 002:
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DRAWING NAME
GRADING AND DRAINAGE
RETAINING WALL
EXHIBIT (SE)

SHEET NO
C012

DEKKER
PERICH
SABATINI

7601 JEFFERSON NE, SUITE 100
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ENGINEER



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DRAWING NAME

RETAINING WALL
EXHIBIT (NW)

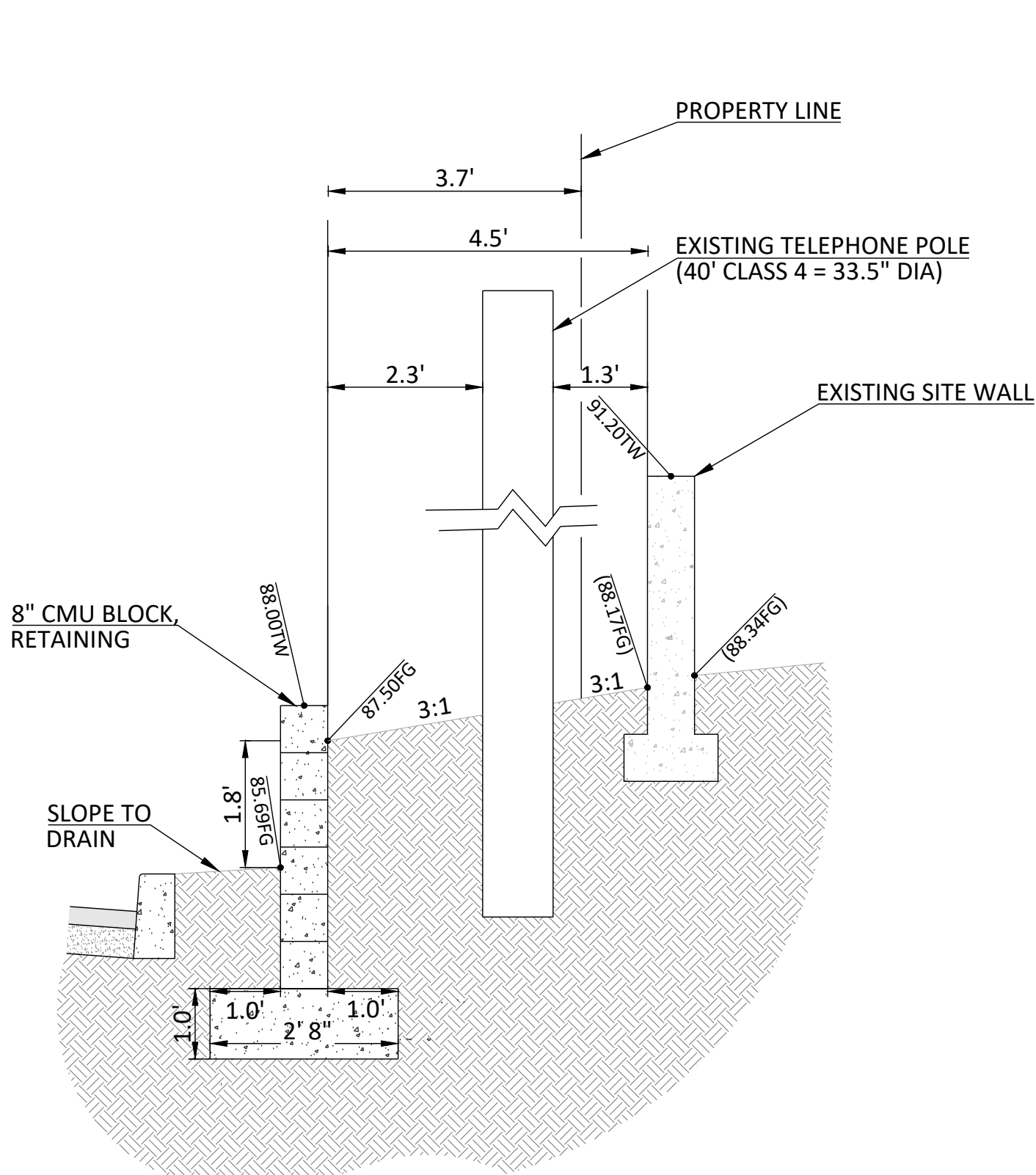
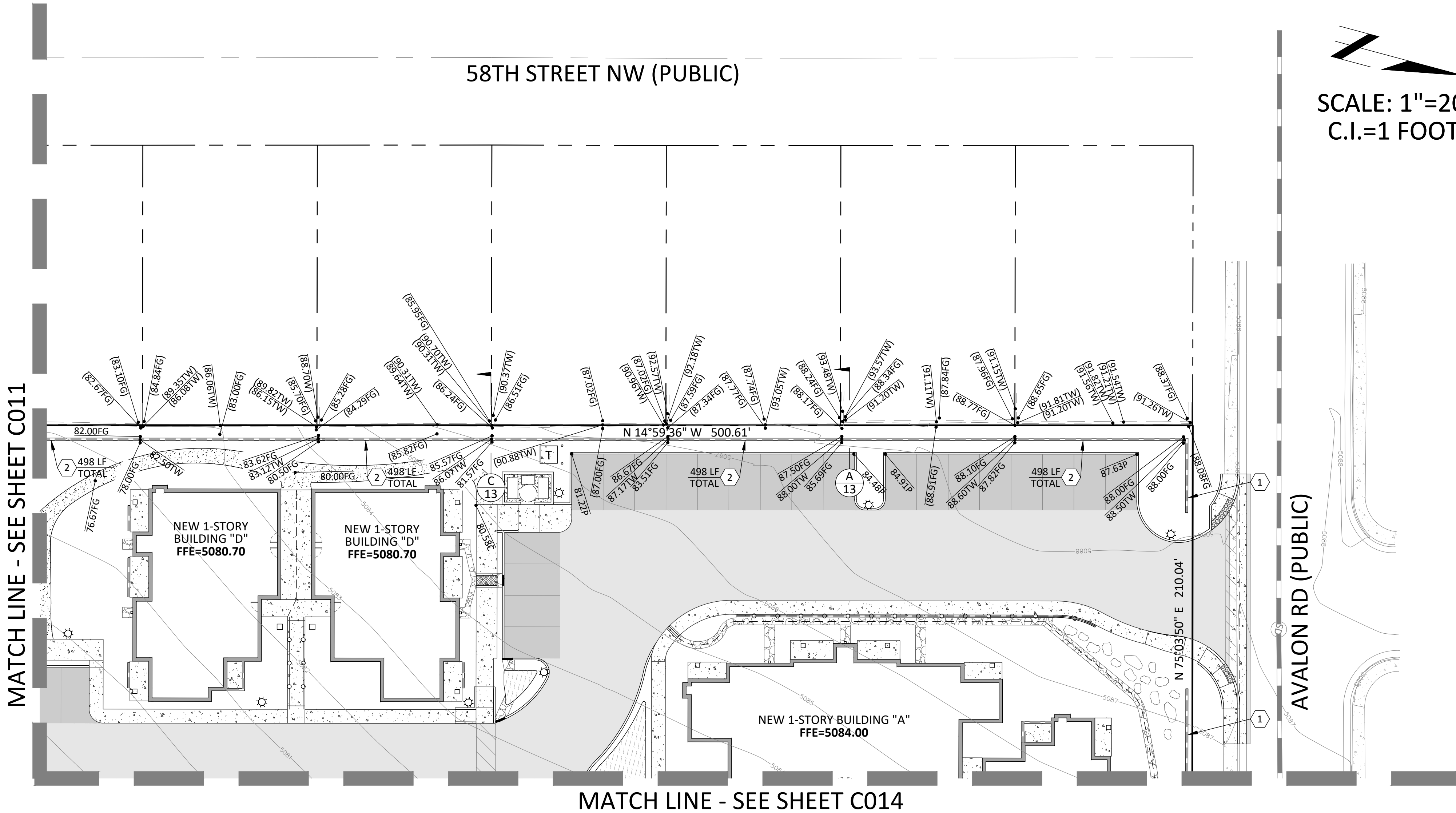
SHEET NO

C013

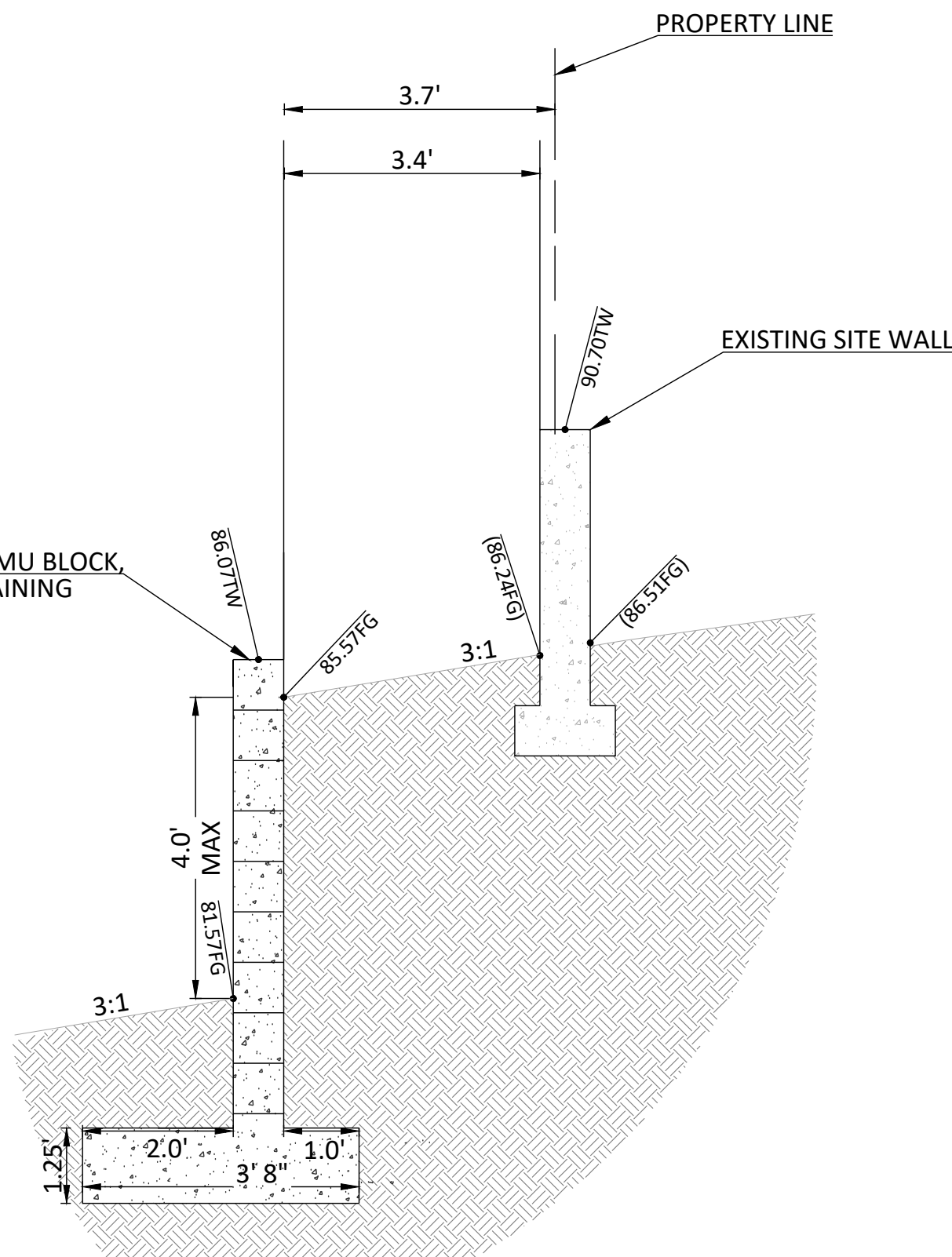
KEYNOTES

- NEW 6' MASONRY & PICKET FENCE SITE WALL. SEE SITE PLANS FOR DETAILS.
- NEW 4' MAX RETAINING WALL. SEE SITE PLANS FOR MORE DETAIL.

SCALE: 1"=20'
C.I.=1 FOOT



A RETAINING WALL DETAIL
N.T.S.



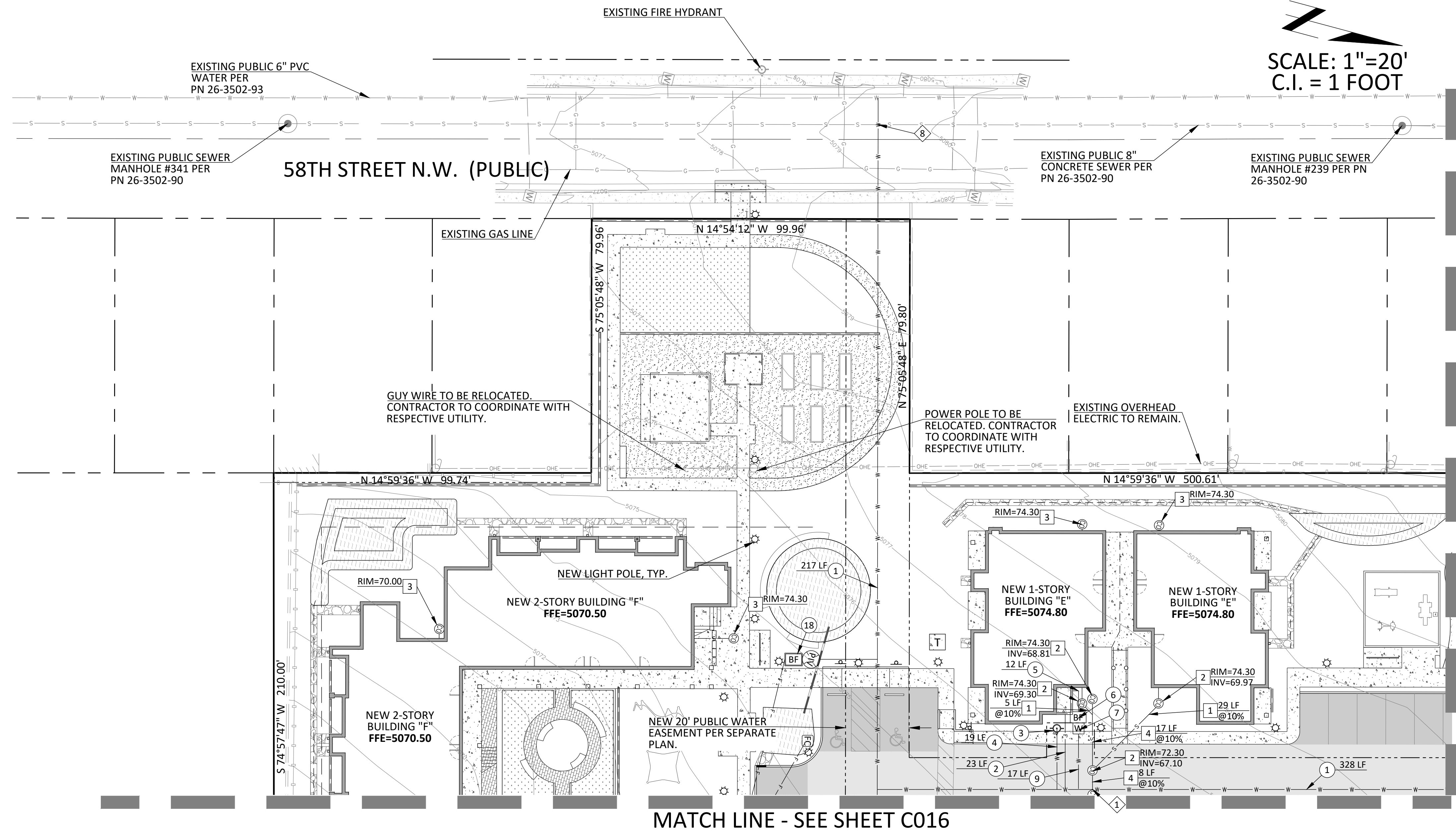
C RETAINING WALL DETAIL
N.T.S.





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

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



PRIVATE UTILITY NOTES

1. ALL ON-SITE BUILDING SEWER CONNECTION LINES ARE PRIVATE. THE MATERIALS AND INSTALLATION SHALL BE PER THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE, LATEST EDITION.
2. ALL ON-SITE DOMESTIC WATER SUPPLY LINES ARE PRIVATE. THE MATERIALS AND INSTALLATION 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\"/>

SEWER KEYNOTES

- 1 NEW PRIVATE 4\"/>
- 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\"/>

WATER KEYNOTES

- 1 NEW PUBLIC 8\"/>
- 2 NEW PRIVATE 4\"/>
- 3 NEW FIRE HYDRANT PER SEPARATE PLAN.
- 4 NEW PUBLIC 6\"/>
- 5 NEW PRIVATE 2\"/>
- 6 NEW 2\"/>
- 7 NEW 2\"/>
- 9 NEW PUBLIC 2\"/>
- 18 NEW 4\"/>

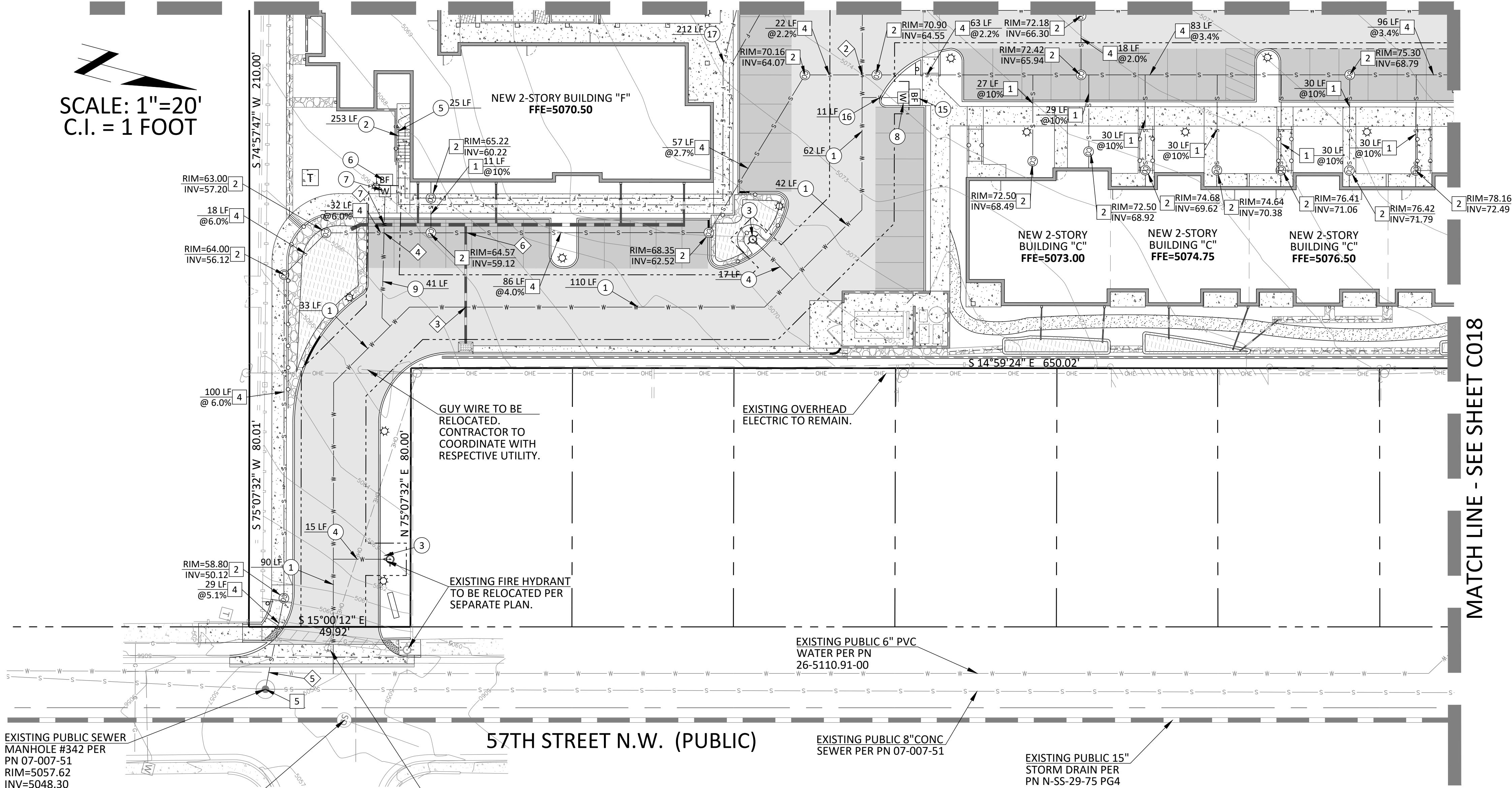
UTILITY CROSSINGS

- 1 SEWER/WATER CROSSING
8\"/>
- 8 SEWER/WATER CROSSING
8\"/>

SCALE: 1"=20'
C.I. = 1 FOOT

MATCH LINE - SEE SHEET C015

MATCH LINE - SEE SHEET C018



EXISTING PUBLIC SEWER
MANHOLE #342 PER
PN 07-007-51
RIM=5057.62
INV=5048.30
INV(W)=5048.63

EXISTING PUBLIC STORM DRAIN
MANHOLE
RIM=5058.53
INV (NW)=5051.93
INV (SE)=5051.88
INV (NE)=5053.03

EXISTING UTILITY LIGHT POLE
TO BE RELOCATED PER CITY
OF ALBUQUERQUE WORK
ORDER.

UTILITY CROSSINGS

- SEWER/WATER CROSSING
8" WATER INV=66.62
6" SEWER TOP= 64.95
SEPARATION=1.67' (MIN)
- SEWER/WATER CROSSING (*WATER NEEDS TO DIP)
8" WATER TOP=59.06
6" STORM DRAIN INV=60.56
SEPARATION=1.50' (MIN)
- SEWER/WATER CROSSING
2" WATER INV=61.69
6" SEWER TOP=58.76
SEPARATION= 2.93'
COVER=2.00'
- SEWER/WATER CROSSING
6" WATER INV=53.78 (APPROX.)
6" SEWER TOP=48.82
SEPARATION= 4.96'
- STORM DRAIN/SEWER CROSSING
6" SEWER TOP=60.05
6" STORM DRAIN INV=61.62
SEPARATION= 1.56'
- STORM DRAIN/WATER CROSSING
2" WATER INV=61.79
8" STORM DRAIN TOP=60.78
SEPARATION= 1.01' (1.00' MIN)
COVER=2.00'

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

PRIVATE UTILITY NOTES

- ALL ON-SITE BUILDING SEWER CONNECTION LINES ARE PRIVATE. THE MATERIALS AND INSTALLATION SHALL BE PER THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE, LATEST EDITION.
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PRIVATE FIRE SUPPRESSION NOTES

- INSTALLATION OF FIRE SERVICE UNDERGROUND SHALL CONFORM TO NFPA 13.
- MINIMUM DEPTH OF BURY TO BE 36".
- 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.
- RESTRAINT METHOD FOR NEW FIRE SERVICE INSTALLATION TO BE CONCRETE THRUST BLOCKS.
- 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).
- NEW PRIVATE 6" PVC SEWER LINE. SEE KEYNOTE FOR LENGTH AND SLOPE.
- CONNECT NEW PRIVATE 6" SEWER TO EXISTING PUBLIC MANHOLE PER ABCWUA STANDARDS AND SPECIFICATIONS.

WATER KEYNOTES

- NEW PUBLIC 8" PVC WATER MAIN PER SEPARATE PLAN. 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 FIRE HYDRANT PER SEPARATE PLAN.
- NEW PUBLIC 6" DIP WATER LINE FOR FIRE HYDRANT PER SEPARATE PLAN.
- NEW PRIVATE 2" WATER SERVICE. SEE KEYNOTE FOR LENGTH.
- NEW 2" BACKFLOW PREVENTER.
- NEW 2" WATER METER PER SEPARATE PLAN.
- NEW 3/4" WATER METER PER SEPARATE PLAN.
- NEW PUBLIC 2" WATER SERVICE. SEE KEYNOTE FOR LENGTH.
- NEW 3/4" BACKFLOW PREVENTER.
- NEW PUBLIC 3/4" WATER SERVICE. SEE KEYNOTE FOR LENGTH. (TO BE USED FOR FROST FREE YARD HYDRANT).
- NEW 4" FIRE SERVICE LINE FOR FDC. SEE KEYNOTE FOR LENGTH. CONTRACTOR TO CONFIRM SIZE AND ALIGNMENT WITH FIRE PROTECTION PLAN.

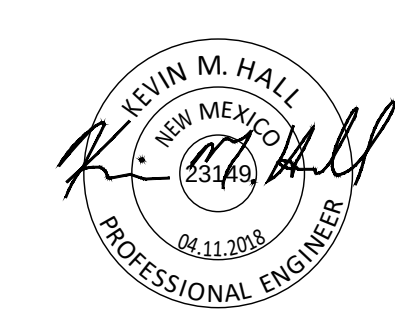
DEKKER
PERICH
SABATINI

7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109
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ENGINEER

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

ENGINEER



PROJECT

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

100% CONSTRUCTION
DOCUMENTS

REVISIONS

04/06/2018 ADDENDUM 002:
ALL SHEETS REISSUED

DRAWN BY

JR

REVIEWED BY

KMH

DATE

04/06/2018

PROJECT NO

14-0701

DRAWING NAME

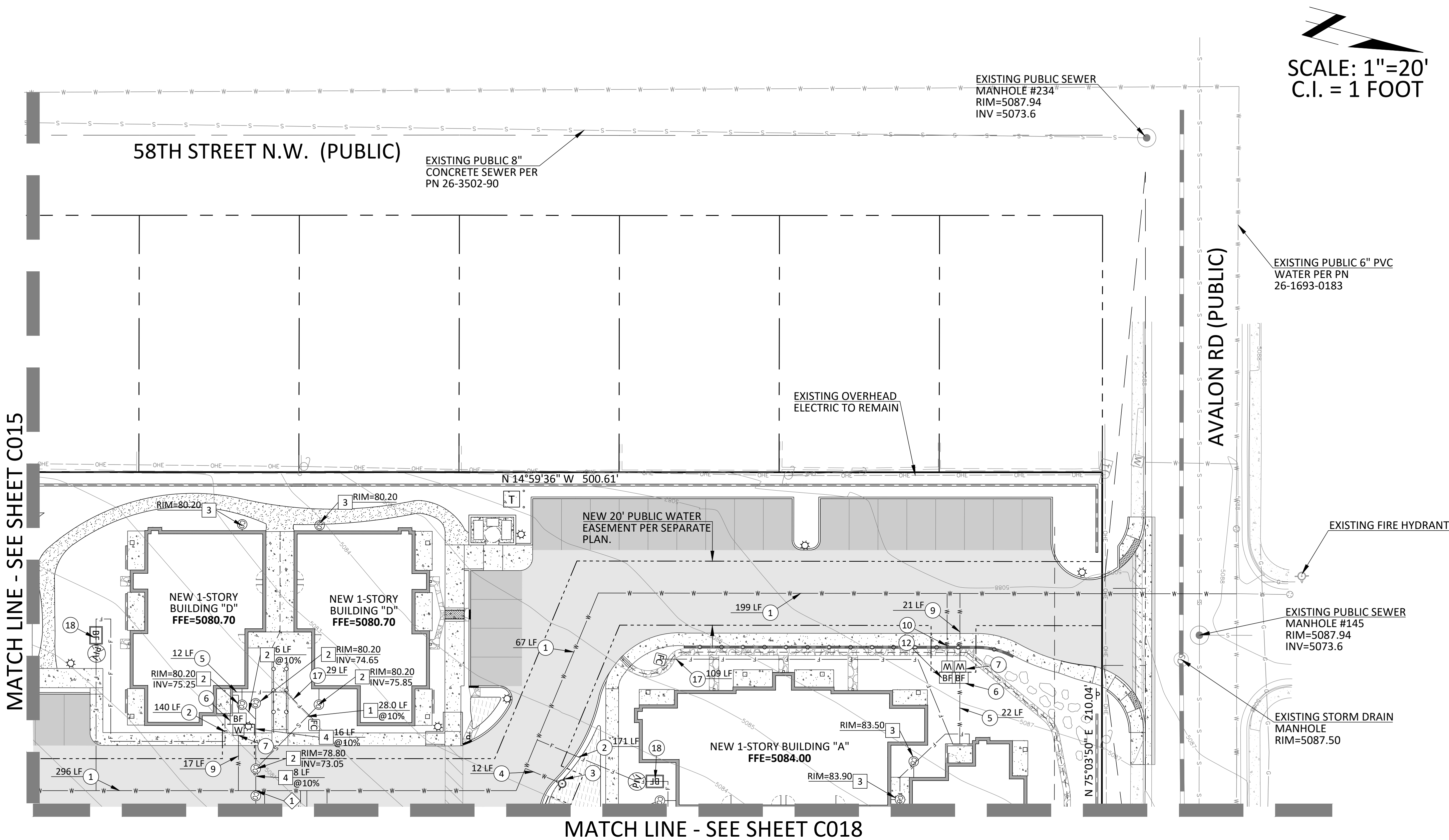
UTILITIES +
EASEMENTS (SE)

SHEET NO

C016



MATCH LINE - SEE SHEET C015



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

PRIVATE UTILITY NOTES

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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.
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SEWER KEYNOTES

- 1 NEW PRIVATE 4" PVC SEWER LINE. SEE KEYNOTE FOR LENGTH AND SLOPE.
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- 5 NEW PRIVATE 2" WATER SERVICE. SEE KEYNOTE FOR LENGTH.
- 6 NEW 2" BACKFLOW PREVENTER.
- 7 NEW 2" WATER METER PER SEPARATE PLAN.
- 9 NEW PUBLIC 2" WATER SERVICE. SEE KEYNOTE FOR LENGTH.
- 10 NEW 1.5" WATER METER AND SERVICE LINE FOR IRRIGATION PER SEPARATE PLAN.
- 12 NEW 1.5" BACKFLOW PREVENTER.
- 17 NEW 4" FIRE SERVICE LINE FOR FDC. SEE KEYNOTE FOR LENGTH. CONTRACTOR TO CONFIRM SIZE AND ALIGNMENT WITH FIRE PROTECTION PLAN.
- 18 NEW 4" BACKFLOW PREVENTER AND POST INDICATOR VALVE CONTRACTOR TO CONFIRM SIZE AND LOCATION WITH FIRE PROTECTION PLAN.

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Strength + Sustainability

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e: kmhall@cypresscivil.com

ENGINEER

KEVIN M. HALL
NEW MEXICO
23143
08/11/2018
PROFESSIONAL ENGINEER

PROJECT

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

100% CONSTRUCTION
DOCUMENTS

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

△
△
△
△

DRAWN BY JR

REVIEWED BY KMH

DATE 04/06/2018

PROJECT NO 14-0701

DRAWING NAME

UTILITIES +
EASEMENTS (NW)

SHEET NO

C017





MATCH LINE - SEE SHEET C017

SCALE: 1"=20'
C.I. = 1 FOOT

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- 7 NEW 2" WATER METER PER SEPARATE PLAN.
- 8 NEW 3/4" WATER METER PER SEPARATE PLAN.
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- 11 NEW 1.5" WATER METER PER SEPARATE PLAN.
- 12 NEW 1.5" BACKFLOW PREVENTER.
- 13 NEW PRIVATE 1.5" WATER SERVICE. SEE KEYNOTE FOR LENGTH.
- 14 NEW PUBLIC 1.5" WATER SERVICE. SEE KEYNOTE FOR LENGTH.
- 15 NEW 3/4" BACKFLOW PREVENTER.
- 16 NEW PUBLIC 3/4" WATER SERVICE. SEE KEYNOTE FOR 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 4" BACKFLOW PREVENTER AND POST INDICATOR VALVE CONTRACTOR TO CONFIRM SIZE AND LOCATION WITH FIRE PROTECTION PLAN.

UTILITY CROSSINGS

- 1 SEWER/WATER CROSSING
8" WATER INV=73.81
6" SEWER TOP=72.25
SEPARATION=1.56' (1.50' MIN)
- 2 SEWER/WATER CROSSING
4" WATER INV=76.94
6" SEWER TOP=74.01
SEPARATION=2.9'
- 3 SEWER/WATER CROSSING
1.5" WATER INV= 76.9
6" SEWER TOP=73.61
SEPARATION=3.29'
- 4 SEWER/WATER CROSSING
4" WATER INV= 76.70
6" SEWER TOP=73.48
SEPARATION= 3.22'
- 5 SEWER/WATER CROSSING
2" WATER INV= 76.26
6" SEWER TOP=72.76
SEPARATION=3.50'

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



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

AVALON ROAD - STREET CAPACITY - Channel Report

<Name>

User-defined

Invert Elev (ft) = 87.00
Slope (%) = 3.30
N-Value = 0.017

Highlighted

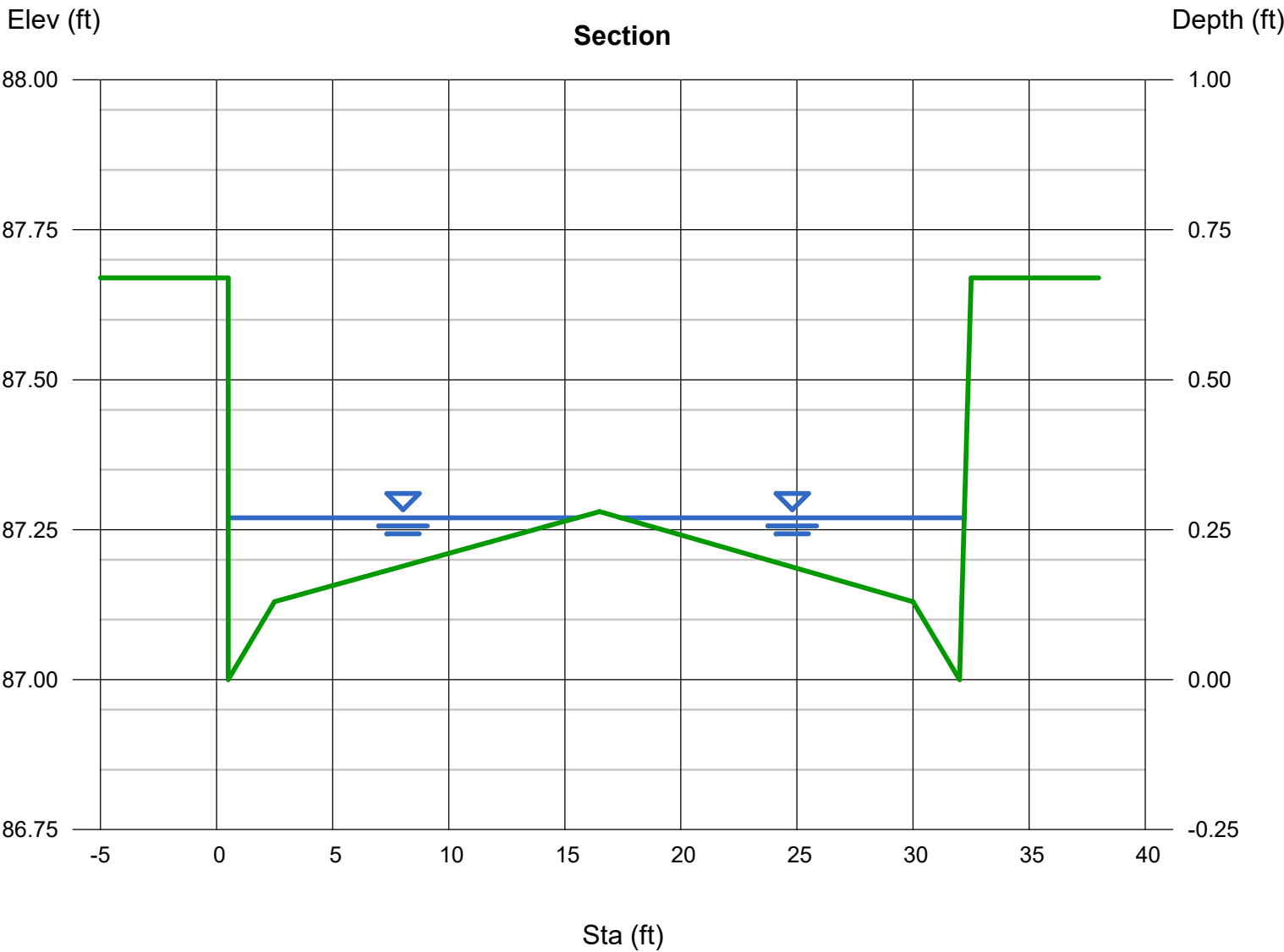
Depth (ft) = 0.27
Q (cfs) = 7.400
Area (sqft) = 2.64
Velocity (ft/s) = 2.80
Wetted Perim (ft) = 30.28
Crit Depth, Yc (ft) = 0.31
Top Width (ft) = 29.87
EGL (ft) = 0.39

Calculations

Compute by: Known Q
Known Q (cfs) = 7.40

(Sta, El, n)-(Sta, El, n)...

(0.00, 87.67)-(0.50, 87.67, 0.017)-(0.50, 87.00, 0.017)-(2.50, 87.13, 0.017)-(16.50, 87.28, 0.017)-(30.00, 87.13, 0.017)-(32.00, 87.00, 0.017)
-(32.50, 87.67, 0.017)-(33.00, 87.67, 0.017)



57th STREET - STREET CAPACITY - Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

Tuesday, Apr 3 2018

<Name>

User-defined

Invert Elev (ft) = 59.00
Slope (%) = 3.70
N-Value = 0.017

Calculations

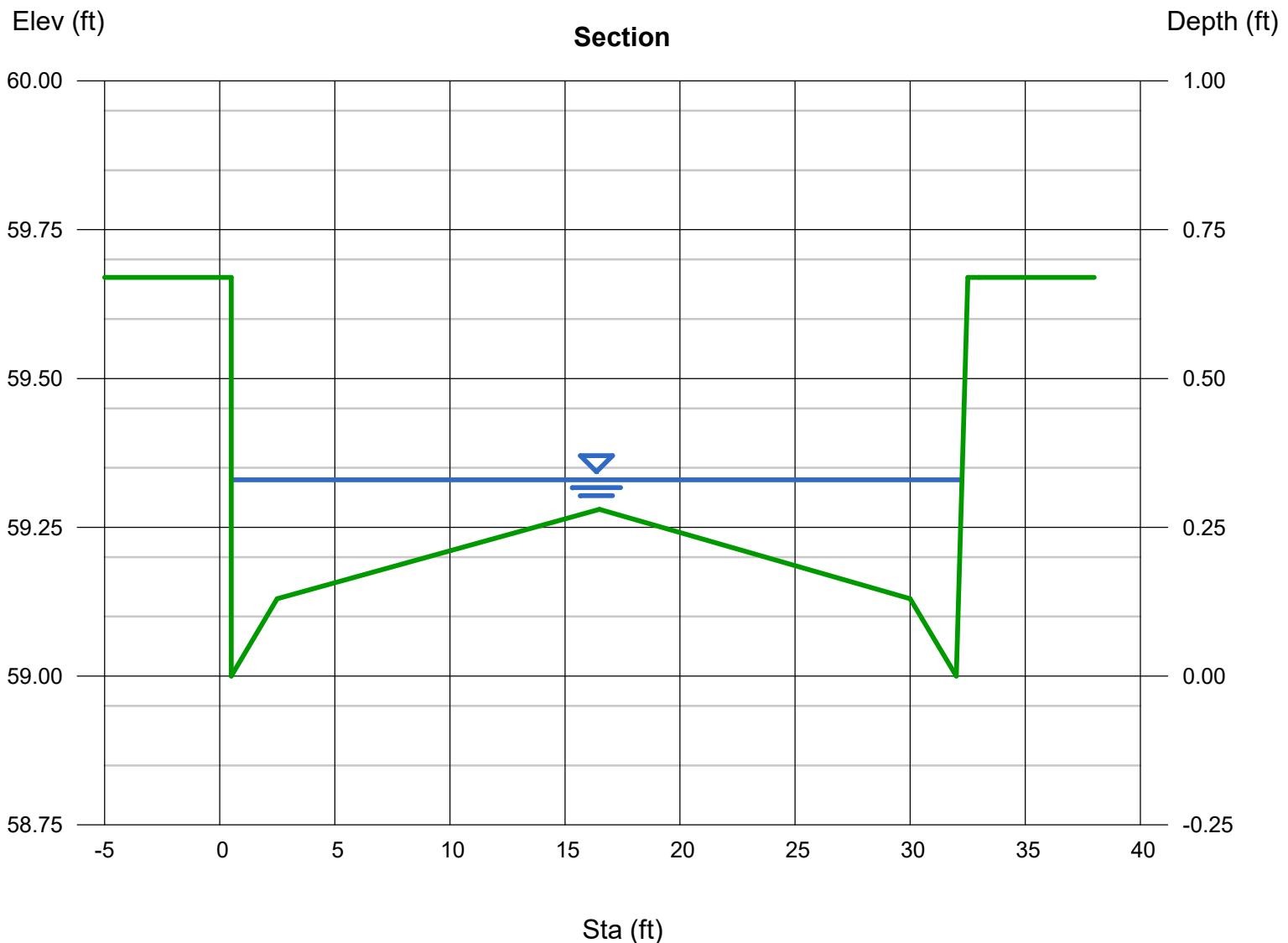
Compute by: Known Q
Known Q (cfs) = 20.45

Highlighted

Depth (ft) = 0.33
Q (cfs) = 20.45
Area (sqft) = 4.54
Velocity (ft/s) = 4.51
Wetted Perim (ft) = 32.25
Crit Depth, Yc (ft) = 0.43
Top Width (ft) = 31.75
EGL (ft) = 0.65

(Sta, El, n)-(Sta, El, n)...

(0.00, 59.67)-(0.50, 59.67, 0.017)-(0.50, 59.00, 0.017)-(2.50, 59.13, 0.017)-(16.50, 59.28, 0.017)-(30.00, 59.13, 0.017)-(32.00, 59.00, 0.017)
-(32.50, 59.67, 0.017)-(33.00, 59.67, 0.017)



SINGLE A INLET - AVALON ROAD - Inlet Report

<Name>

Combination Inlet

Location	= On grade
Curb Length (ft)	= 3.33
Throat Height (in)	= 4.50
Grate Area (sqft)	= -0-
Grate Width (ft)	= 2.08
Grate Length (ft)	= 3.33

Gutter

Slope, Sw (ft/ft)	= 0.063
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 1.00
Gutter Width (ft)	= 2.00
Gutter Slope (%)	= 2.10
Gutter n-value	= 0.016

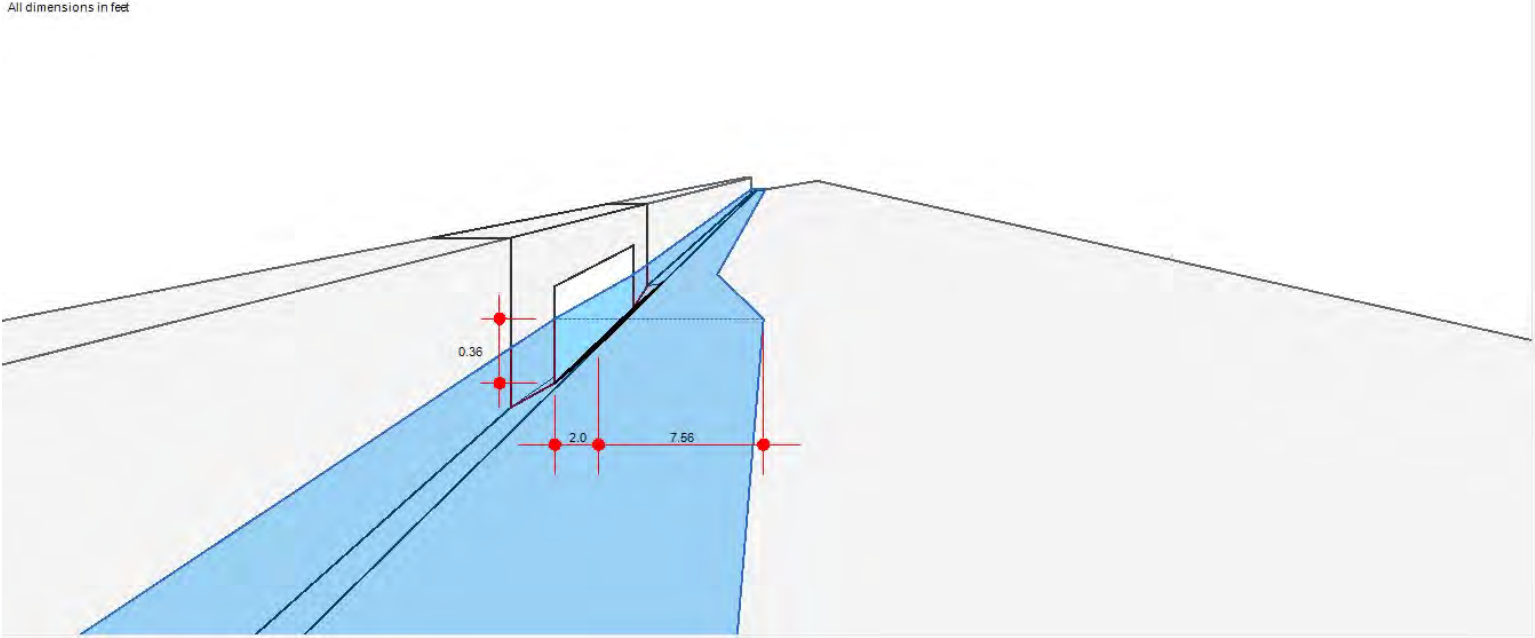
Calculations

Compute by:	Q vs Depth
Max Depth (in)	= 9

Highlighted

Q Total (cfs)	= 3.75
Q Capt (cfs)	= 2.38
Q Bypass (cfs)	= 1.37
Depth at Inlet (in)	= 4.33
Efficiency (%)	= 63
Gutter Spread (ft)	= 9.56
Gutter Vel (ft/s)	= 3.75
Bypass Spread (ft)	= 5.95
Bypass Depth (in)	= 2.46

All dimensions in feet



Q		Inlet		Gutter	
Total	Captured	Depth	Efficiency	Depth	Spread
(cfs)	(cfs)	(in)	(%)	(in)	(ft)
0.25	0.25	2.38	100	1.38	1.82
0.50	0.49	2.78	99	1.78	3.11
0.75	0.70	3.04	94	2.04	4.18
1.00	0.89	3.23	89	2.23	5.00
1.25	1.07	3.39	85	2.39	5.66
1.50	1.22	3.53	82	2.53	6.23
1.75	1.38	3.65	79	2.65	6.73
2.00	1.52	3.76	76	2.76	7.18
2.25	1.66	3.85	74	2.85	7.60
2.50	1.79	3.95	71	2.95	7.98
2.75	1.91	4.03	70	3.03	8.33
3.00	2.03	4.11	68	3.11	8.66
3.25	2.15	4.19	66	3.19	8.98
3.50	2.27	4.26	65	3.26	9.28
3.75	2.38	4.33	63	3.33	9.56
4.00	2.49	4.39	62	3.39	9.83
4.25	2.59	4.45	61	3.45	10.09
4.50	2.70	4.51	60	3.51	10.34
4.75	2.80	4.57	59	3.57	10.58
5.00	2.90	4.63	58	3.63	10.82
5.25	2.99	4.68	57	3.68	11.04
5.50	3.09	4.73	56	3.73	11.26
5.75	3.18	4.78	55	3.78	11.47
6.00	3.28	4.83	55	3.83	11.67
6.25	3.37	4.88	54	3.88	11.87
6.50	3.46	4.93	53	3.93	12.07
6.75	3.55	4.97	53	3.97	12.26
7.00	3.63	5.02	52	4.02	12.44
7.25	3.72	5.06	51	4.06	12.62
7.50	3.81	5.10	51	4.10	12.80
7.75	3.89	5.14	50	4.14	12.97
8.00	3.97	5.18	50	4.18	13.14
8.25	4.05	5.22	49	4.22	13.30
8.50	4.14	5.26	49	4.26	13.47
8.75	4.21	5.30	48	4.30	13.62
9.00	4.30	5.34	48	4.34	13.78
9.25	4.37	5.38	47	4.38	13.93
9.50	4.45	5.41	47	4.41	14.08
9.75	4.53	5.45	46	4.45	14.23
10.00	4.60	5.48	46	4.48	14.38
10.25	4.68	5.52	46	4.52	14.52
10.50	4.75	5.55	45	4.55	14.66
10.75	4.83	5.58	45	4.58	14.80
11.00	4.90	5.62	45	4.62	14.94
11.25	4.97	5.65	44	4.65	15.07
11.50	5.04	5.68	44	4.68	15.20
11.75	5.11	5.71	44	4.71	15.34
12.00	5.18	5.74	43	4.74	15.46
12.25	5.25	5.77	43	4.77	15.59



Gutter	Bypass		
Velocity	Q	Spread	Depth
(ft/s)	(cfs)	(ft)	(in)
2.39	0.00	0.00	0.00
2.74	0.01	0.47	0.35
2.88	0.05	0.96	0.72
2.98	0.11	1.32	1.00
3.08	0.18	1.62	1.23
3.17	0.28	1.89	1.43
3.25	0.37	2.37	1.60
3.32	0.48	3.01	1.75
3.39	0.59	3.56	1.89
3.46	0.71	4.05	2.00
3.53	0.84	4.49	2.11
3.58	0.97	4.90	2.21
3.65	1.10	5.28	2.30
3.70	1.23	5.62	2.38
3.75	1.37	5.95	2.46
3.80	1.51	6.26	2.53
3.85	1.66	6.55	2.60
3.90	1.80	6.83	2.67
3.94	1.95	7.10	2.74
3.98	2.10	7.36	2.80
4.03	2.26	7.61	2.86
4.07	2.41	7.84	2.91
4.11	2.57	8.07	2.97
4.14	2.72	8.29	3.02
4.18	2.88	8.51	3.07
4.22	3.04	8.72	3.12
4.25	3.20	8.92	3.17
4.29	3.37	9.12	3.22
4.32	3.53	9.31	3.27
4.35	3.69	9.50	3.31
4.39	3.86	9.68	3.36
4.42	4.03	9.86	3.40
4.45	4.20	10.04	3.44
4.48	4.36	10.21	3.48
4.51	4.54	10.38	3.52
4.53	4.70	10.54	3.56
4.56	4.88	10.70	3.60
4.59	5.05	10.86	3.64
4.62	5.22	11.02	3.68
4.65	5.40	11.17	3.71
4.67	5.57	11.32	3.75
4.70	5.75	11.47	3.78
4.72	5.92	11.61	3.82
4.75	6.10	11.75	3.85
4.77	6.28	11.89	3.89
4.80	6.46	12.03	3.92
4.82	6.64	12.17	3.95
4.85	6.82	12.31	3.99
4.87	7.00	12.44	4.02

SINGLE A INLET - 57th STREET (UPSTREAM) - Inlet Report

<Name>

Combination Inlet

Location	= On grade
Curb Length (ft)	= 3.33
Throat Height (in)	= 4.50
Grate Area (sqft)	= -0-
Grate Width (ft)	= 2.08
Grate Length (ft)	= 3.33

Gutter

Slope, Sw (ft/ft)	= 0.063
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 1.00
Gutter Width (ft)	= 2.00
Gutter Slope (%)	= 2.50
Gutter n-value	= 0.016

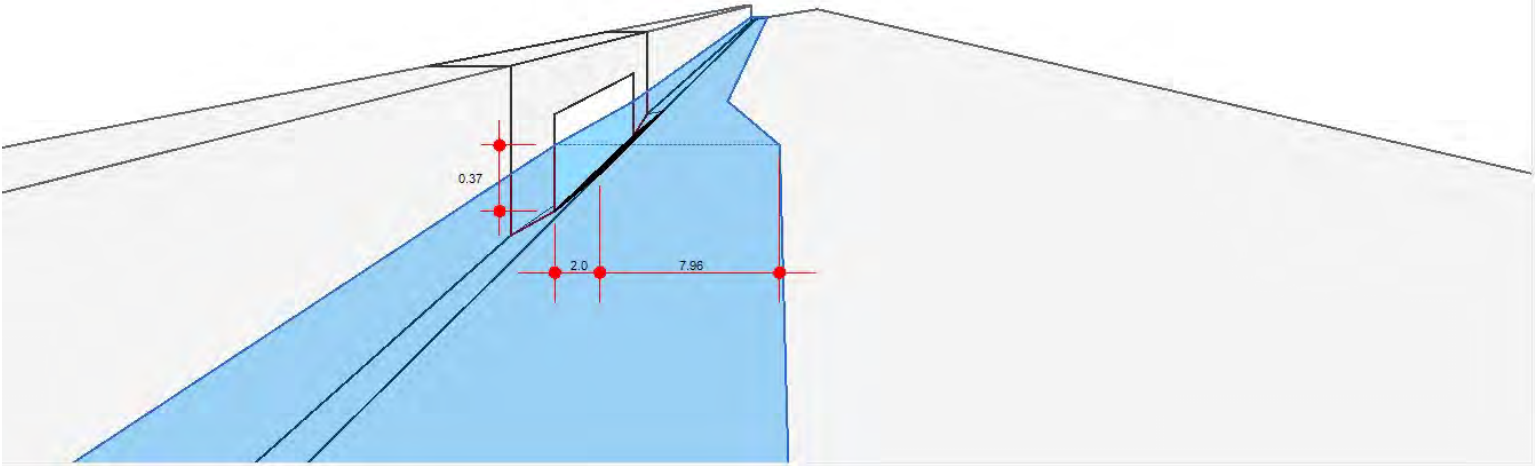
Calculations

Compute by:	Q vs Depth
Max Depth (in)	= 9

Highlighted

Q Total (cfs)	= 4.50
Q Capt (cfs)	= 2.73
Q Bypass (cfs)	= 1.77
Depth at Inlet (in)	= 4.42
Efficiency (%)	= 61
Gutter Spread (ft)	= 9.96
Gutter Vel (ft/s)	= 4.17
Bypass Spread (ft)	= 6.48
Bypass Depth (in)	= 2.59

All dimensions in feet



Q		Inlet		Gutter	
Total	Captured	Depth	Efficiency	Depth	Spread
(cfs)	(cfs)	(in)	(%)	(in)	(ft)
0.25	0.25	2.33	100	1.33	1.76
0.50	0.50	2.72	99	1.72	2.88
0.75	0.71	2.98	95	1.98	3.95
1.00	0.91	3.17	91	2.17	4.75
1.25	1.08	3.33	86	2.33	5.40
1.50	1.24	3.46	83	2.46	5.95
1.75	1.39	3.58	80	2.58	6.44
2.00	1.54	3.68	77	2.68	6.89
2.25	1.68	3.78	75	2.78	7.29
2.50	1.81	3.87	72	2.87	7.66
2.75	1.94	3.95	70	2.95	8.01
3.00	2.06	4.03	69	3.03	8.33
3.25	2.18	4.10	67	3.10	8.64
3.50	2.30	4.17	66	3.17	8.93
3.75	2.41	4.24	64	3.24	9.20
4.00	2.52	4.30	63	3.30	9.47
4.25	2.63	4.36	62	3.36	9.72
4.50	2.73	4.42	61	3.42	9.96
4.75	2.83	4.48	60	3.48	10.20
5.00	2.93	4.53	59	3.53	10.42
5.25	3.03	4.59	58	3.59	10.64
5.50	3.13	4.64	57	3.64	10.85
5.75	3.22	4.69	56	3.69	11.06
6.00	3.32	4.73	55	3.73	11.26
6.25	3.41	4.78	54	3.78	11.45
6.50	3.50	4.82	54	3.82	11.64
6.75	3.59	4.87	53	3.87	11.82
7.00	3.67	4.91	52	3.91	12.00
7.25	3.76	4.95	52	3.95	12.18
7.50	3.85	4.99	51	3.99	12.35
7.75	3.93	5.03	51	4.03	12.51
8.00	4.01	5.07	50	4.07	12.68
8.25	4.10	5.11	50	4.11	12.84
8.50	4.18	5.15	49	4.15	13.00
8.75	4.26	5.19	49	4.19	13.15
9.00	4.34	5.22	48	4.22	13.30
9.25	4.42	5.26	48	4.26	13.45
9.50	4.49	5.29	47	4.29	13.60
9.75	4.57	5.33	47	4.33	13.74
10.00	4.65	5.36	46	4.36	13.88
10.25	4.72	5.40	46	4.40	14.02
10.50	4.80	5.43	46	4.43	14.16
10.75	4.87	5.46	45	4.46	14.29
11.00	4.94	5.49	45	4.49	14.42
11.25	5.02	5.53	45	4.53	14.56
11.50	5.09	5.56	44	4.56	14.68
11.75	5.16	5.59	44	4.59	14.81
12.00	5.23	5.62	44	4.62	14.94
12.25	5.30	5.65	43	4.65	15.06



Gutter	Bypass		
Velocity	Q	Spread	Depth
(ft/s)	(cfs)	(ft)	(in)
2.55	0.00	0.00	0.00
2.96	0.00	0.37	0.28
3.10	0.04	0.86	0.65
3.21	0.09	1.22	0.93
3.32	0.17	1.52	1.15
3.41	0.26	1.78	1.35
3.49	0.36	2.04	1.52
3.57	0.46	2.67	1.67
3.65	0.57	3.23	1.81
3.72	0.69	3.72	1.92
3.78	0.81	4.16	2.03
3.85	0.94	4.57	2.13
3.91	1.07	4.94	2.22
3.97	1.20	5.29	2.30
4.02	1.34	5.61	2.38
4.07	1.48	5.92	2.45
4.12	1.62	6.21	2.52
4.17	1.77	6.48	2.59
4.22	1.92	6.75	2.65
4.27	2.07	7.00	2.71
4.31	2.22	7.24	2.77
4.35	2.37	7.48	2.83
4.40	2.53	7.70	2.88
4.44	2.68	7.92	2.93
4.48	2.84	8.13	2.98
4.51	3.00	8.34	3.03
4.55	3.16	8.53	3.08
4.59	3.33	8.73	3.13
4.62	3.49	8.91	3.17
4.66	3.65	9.10	3.21
4.69	3.82	9.28	3.26
4.73	3.99	9.45	3.30
4.76	4.15	9.63	3.34
4.79	4.32	9.79	3.38
4.82	4.49	9.96	3.42
4.85	4.66	10.12	3.46
4.88	4.83	10.27	3.50
4.91	5.01	10.43	3.53
4.94	5.18	10.58	3.57
4.97	5.35	10.73	3.61
5.00	5.53	10.87	3.64
5.02	5.70	11.02	3.68
5.05	5.88	11.16	3.71
5.08	6.06	11.30	3.74
5.10	6.23	11.44	3.78
5.13	6.41	11.57	3.81
5.15	6.59	11.70	3.84
5.18	6.77	11.83	3.87
5.21	6.95	11.96	3.90

SINGLE A INLET - 57th STREET (DOWNSTREAM) - Inlet Report

<Name>

Combination Inlet

Location	= On grade
Curb Length (ft)	= 3.33
Throat Height (in)	= 4.50
Grate Area (sqft)	= -0-
Grate Width (ft)	= 2.08
Grate Length (ft)	= 3.33

Gutter

Slope, Sw (ft/ft)	= 0.063
Slope, Sx (ft/ft)	= 0.020
Local Depr (in)	= 1.00
Gutter Width (ft)	= 2.00
Gutter Slope (%)	= 3.70
Gutter n-value	= 0.016

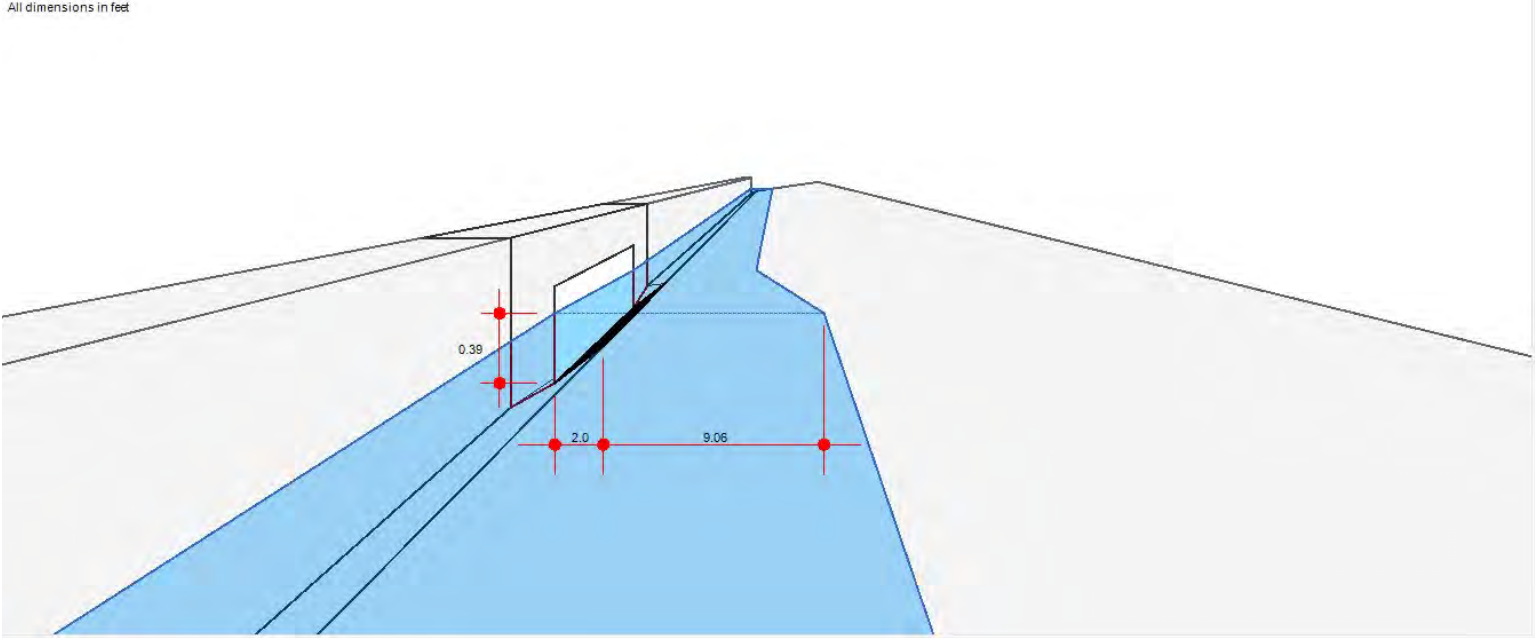
Calculations

Compute by:	Q vs Depth
Max Depth (in)	= 9

Highlighted

Q Total (cfs)	= 7.00
Q Capt (cfs)	= 3.80
Q Bypass (cfs)	= 3.20
Depth at Inlet (in)	= 4.69
Efficiency (%)	= 54
Gutter Spread (ft)	= 11.06
Gutter Vel (ft/s)	= 5.35
Bypass Spread (ft)	= 7.84
Bypass Depth (in)	= 2.91

All dimensions in feet



Q		Inlet		Gutter	
Total	Captured	Depth	Efficiency	Depth	Spread
(cfs)	(cfs)	(in)	(%)	(in)	(ft)
0.25	0.25	2.24	100	1.24	1.64
0.50	0.50	2.60	100	1.60	2.39
0.75	0.73	2.85	97	1.85	3.42
1.00	0.93	3.04	93	2.04	4.20
1.25	1.12	3.19	89	2.19	4.82
1.50	1.29	3.32	86	2.32	5.36
1.75	1.45	3.43	83	2.43	5.82
2.00	1.60	3.53	80	2.53	6.24
2.25	1.74	3.62	77	2.62	6.63
2.50	1.88	3.71	75	2.71	6.98
2.75	2.01	3.79	73	2.79	7.31
3.00	2.14	3.86	71	2.86	7.61
3.25	2.26	3.93	70	2.93	7.90
3.50	2.38	3.99	68	2.99	8.17
3.75	2.50	4.06	67	3.06	8.43
4.00	2.61	4.12	65	3.12	8.68
4.25	2.72	4.17	64	3.17	8.92
4.50	2.83	4.23	63	3.23	9.15
4.75	2.93	4.28	62	3.28	9.37
5.00	3.04	4.33	61	3.33	9.58
5.25	3.14	4.38	60	3.38	9.79
5.50	3.24	4.43	59	3.43	9.98
5.75	3.34	4.47	58	3.47	10.18
6.00	3.43	4.52	57	3.52	10.36
6.25	3.52	4.56	56	3.56	10.54
6.50	3.62	4.60	56	3.60	10.72
6.75	3.71	4.65	55	3.65	10.89
7.00	3.80	4.69	54	3.69	11.06
7.25	3.89	4.72	54	3.72	11.22
7.50	3.97	4.76	53	3.76	11.38
7.75	4.06	4.80	52	3.80	11.54
8.00	4.15	4.84	52	3.84	11.69
8.25	4.23	4.87	51	3.87	11.84
8.50	4.31	4.91	51	3.91	11.99
8.75	4.40	4.94	50	3.94	12.14
9.00	4.48	4.98	50	3.98	12.28
9.25	4.56	5.01	49	4.01	12.42
9.50	4.64	5.04	49	4.04	12.55
9.75	4.72	5.08	48	4.08	12.69
10.00	4.79	5.11	48	4.11	12.82
10.25	4.87	5.14	48	4.14	12.95
10.50	4.95	5.17	47	4.17	13.08
10.75	5.02	5.20	47	4.20	13.20
11.00	5.10	5.23	46	4.23	13.33
11.25	5.17	5.26	46	4.26	13.45
11.50	5.25	5.29	46	4.29	13.57
11.75	5.32	5.32	45	4.32	13.69
12.00	5.40	5.35	45	4.35	13.81
12.25	5.47	5.37	45	4.37	13.92



Gutter	Bypass		
Velocity	Q	Spread	Depth
(ft/s)	(cfs)	(ft)	(in)
2.96	0.00	0.00	0.00
3.50	0.00	0.17	0.13
3.70	0.02	0.64	0.49
3.82	0.07	1.00	0.75
3.93	0.13	1.29	0.98
4.02	0.21	1.54	1.16
4.12	0.30	1.76	1.33
4.21	0.40	1.96	1.48
4.29	0.51	2.43	1.61
4.37	0.62	2.94	1.74
4.44	0.74	3.38	1.84
4.51	0.86	3.79	1.94
4.58	0.99	4.16	2.03
4.65	1.12	4.51	2.11
4.71	1.25	4.83	2.19
4.77	1.39	5.13	2.26
4.82	1.53	5.41	2.33
4.88	1.67	5.69	2.40
4.93	1.82	5.94	2.46
4.98	1.96	6.18	2.52
5.03	2.11	6.42	2.57
5.08	2.26	6.65	2.63
5.13	2.41	6.86	2.68
5.18	2.57	7.07	2.73
5.22	2.73	7.27	2.78
5.26	2.88	7.47	2.82
5.31	3.04	7.66	2.87
5.35	3.20	7.84	2.91
5.39	3.36	8.03	2.96
5.43	3.53	8.20	3.00
5.47	3.69	8.37	3.04
5.51	3.85	8.54	3.08
5.54	4.02	8.70	3.12
5.58	4.19	8.86	3.16
5.61	4.35	9.01	3.19
5.65	4.52	9.17	3.23
5.68	4.69	9.32	3.27
5.72	4.86	9.46	3.30
5.75	5.03	9.61	3.34
5.79	5.21	9.75	3.37
5.82	5.38	9.89	3.40
5.85	5.55	10.02	3.44
5.88	5.73	10.16	3.47
5.91	5.90	10.29	3.50
5.94	6.08	10.42	3.53
5.97	6.25	10.55	3.56
6.00	6.43	10.67	3.59
6.02	6.60	10.79	3.62
6.05	6.78	10.91	3.65

EQUATION SHEET

GRATE OPENING EQUATION - SINGLE D INLET

GRATE OPENING EQUATION FOR STORM INLET GRATE OVER CATCH BASIN

$$Q = 3.0PY^{3/2}$$

Q = 100 YEAR DESIGN FLOW

P = OPEN PERIMETER OF STORM INLET ALBUQUERQUE GRATE

$$\text{LENGTH} = 40'' - (8 \times 0.5'') = 36''$$

$$\text{WIDTH} = 25'' - (12 \times 0.5'') = 19''$$

$$P = 2(\text{LENGTH}) + 2(\text{WIDTH}) = 110''/12 = 9.17 \text{ (feet)}$$

h = HEIGHT OF WATER ABOVE OPENING (0.5 feet)

$$Q = 3.0 \times 9.17 \times (0.5)^{3/2}$$

$$Q = 9.7 \text{ cfs}$$

MAXIMUM GRATE CAPACITY = 9.7 cfs

EQUATION SHEET

CURB OPENING EQUATION

WEIR EQUATION FOR 3' WIDE CONCRETE CURB OPENING

$$Q = clh^{3/2}$$

Q = 100 YEAR DESIGN FLOW

c = CONSTANT (3.0)

l = LENGTH OF OPENING (3 feet)

h = HEIGHT OF OPENING (1/2 foot)

$$Q = 3.0 \times 3.0 \times (.5)^{3/2}$$

$$Q = 3.18 \text{ cfs}$$

PROPOSED 3' WIDE x .5' TALL CONCRETE CURB OPENING CAN CONVEY APPROXIMATELY 3.18 CFS WHEN FLOWING FULL. CURB OPENING IS MORE THAN SUFFICIENT TO HANDLE ALL FLOW BEING CONVEYED TO THAT LOCATION, APPROXIMATELY 2.1 CFS (COMBINED SUBWATERSHED DISCHARGE OF #1, #2 AND #3) IS THE GREATEST FLOW THAT DISCHARGES THROUGH THE PROPOSED 3' CURB OPENING.

EQUATION SHEET

CURB OPENING EQUATION

WEIR EQUATION FOR 3' WIDE CONCRETE CURB OPENING

$$Q = clh^{3/2}$$

Q = 100 YEAR DESIGN FLOW

c = CONSTANT (3.0)

l = LENGTH OF OPENING (10 feet)

h = HEIGHT OF OPENING (1/2 foot)

$$Q = 3.0 \times 10.0 \times (.5)^{3/2}$$

$$Q = 10.61 \text{ cfs}$$

PROPOSED 10' WIDE x .5' TALL CONCRETE CURB OPENING CAN CONVEY APPROXIMATELY 10.6 CFS WHEN FLOWING FULL. CURB OPENING IS SUFFICIENT TO HANDLE THE 10.5 CFS THAT DISCHARGES THROUGH THE PROPOSED 10' CURB OPENING.

EQUATION SHEET

SUBWATERSHED HYDROGRAPH CALCULATIONS – INPUT IN HEC HMS

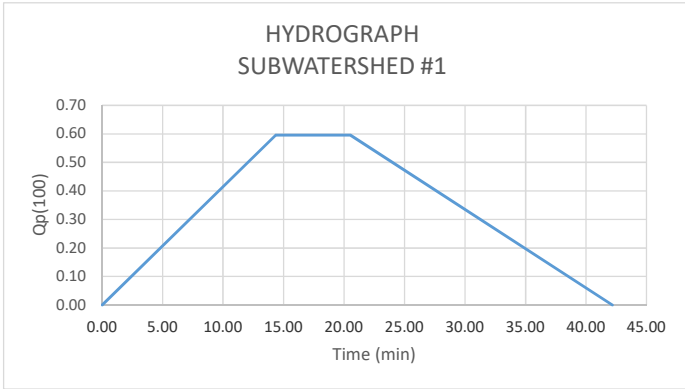
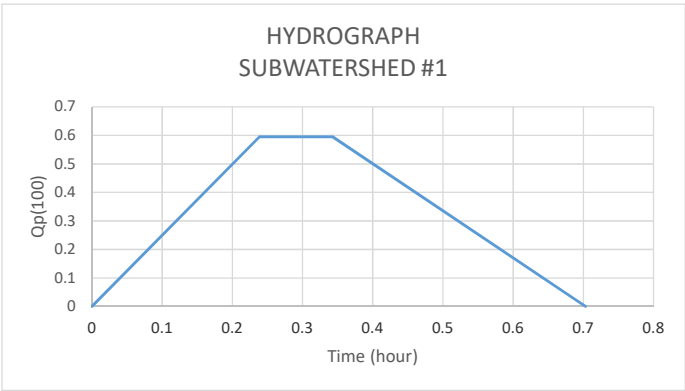
Watershed Designation	Tc (hours)	A _D Impervious (acres)	A _T -Total (acrea)	Excess Precipitation (inches)	Q _p (cfs)	T _p (hours)	T _b (hours)	Continue Peak (hours)
1	0.2	0.07	0.17	1.40	0.60	0.239	0.703	0.104
2	0.2	0.07	0.15	1.47	0.52	0.233	0.700	0.122
3	0.2	0.27	0.44	1.58	1.67	0.223	0.694	0.151
4	0.2	0.04	0.15	1.27	0.48	0.250	0.705	0.070
5	0.2	0.08	0.09	1.86	0.40	0.199	0.671	0.222
6	0.2	0.14	0.31	1.45	1.10	0.234	0.701	0.117
7	0.2	0.07	0.30	1.23	0.98	0.253	0.705	0.061
8	0.2	0.05	0.11	1.41	0.39	0.238	0.703	0.107
9	0.2	0.10	0.26	1.35	0.90	0.243	0.704	0.091
10	0.2	0.19	0.31	1.59	1.16	0.222	0.693	0.153
11	0.2	0.04	0.05	1.76	0.20	0.208	0.681	0.198
12	0.2	1.12	1.31	1.83	5.43	0.202	0.674	0.213

Subwatershed	Size (ft2)	Impervious Area (ft2)	Pervious Area (ft2)	Weighted E (inches)
#1	7427.00	3077.91	4349.09	1.40
#2	6331.00	3097.52	3233.48	1.47
#3	19228.00	11618.08	7609.92	1.58
#4	6385.02	1792.54	4592.48	1.27
#5	4097.70	3645.70	452.00	1.86
#6	13369.36	6266.47	7102.89	1.45
#7	13266.67	3212.00	10054.67	1.23
#8	4851.12	2071.00	2780.12	1.41
#9	11526.00	4183.50	7342.50	1.35
#10	13333.53	8182.74	5150.79	1.59
#11	2,148	1696.92	451.08	1.76
#12	57,056	48639	8417.00	1.83

Subwatershed 1	
x (hour)	y
0	0
0.239	0.60
0.342	0.60
0.703	0

x (min)	y
0.00	0.00
14.33	0.60
20.54	0.60
42.17	0.00

S2 0.027528



t	q
0	0.000
2	0.083
4	0.166
6	0.249
8	0.332
10	0.416
12	0.499
14	0.582
16	0.595
18	0.595
20	0.595
22	0.555
24	0.500
26	0.445
28	0.390
30	0.335
32	0.280
34	0.225
36	0.170
38	0.115
40	0.060
42	0.005
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

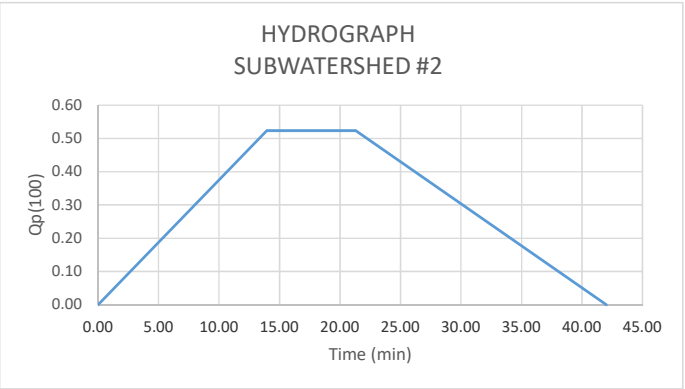
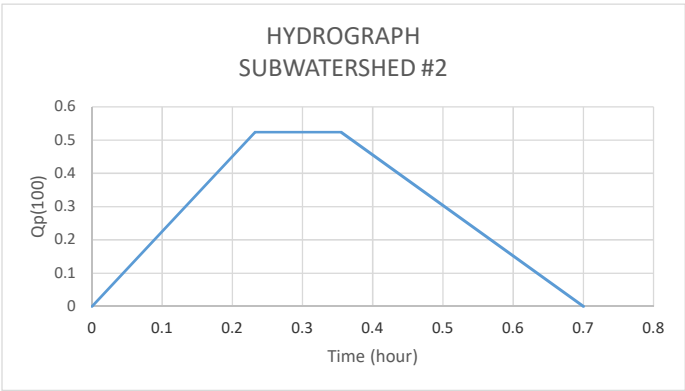
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 2	
x (hour)	y
0	0
0.233	0.52
0.355	0.52
0.700	0

x (min)	y
0.00	0.00
13.95	0.52
21.29	0.52
42.01	0.00

S20.025287



t	q
0	0.000
2	0.075
4	0.150
6	0.225
8	0.300
10	0.375
12	0.450
14	0.524
16	0.524
18	0.524
20	0.524
22	0.506
24	0.455
26	0.405
28	0.354
30	0.304
32	0.253
34	0.202
36	0.152
38	0.101
40	0.051
42	0.000
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

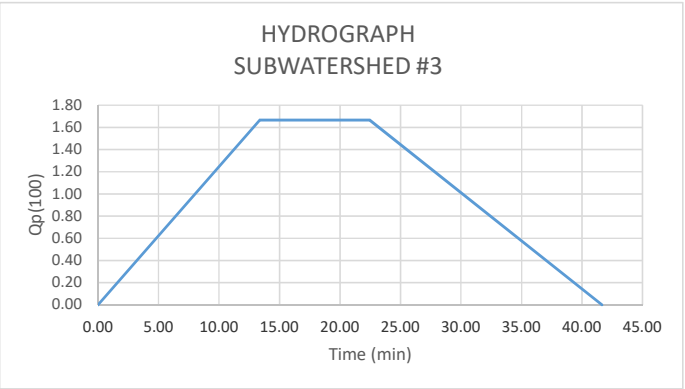
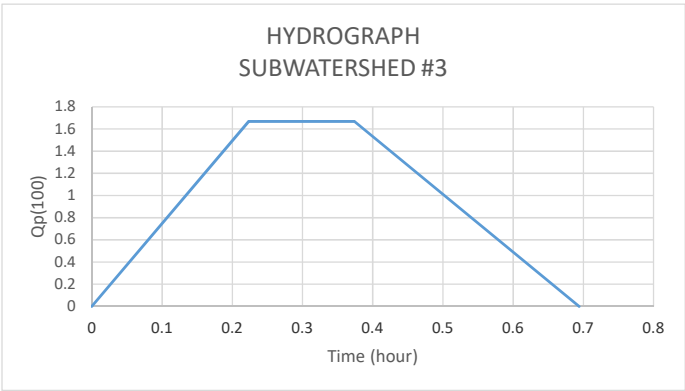
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 3	
x (hour)	y
0	0
0.223	1.67
0.374	1.67
0.694	0

x (min)	y
0.00	0.00
13.38	1.67
22.44	1.67
41.64	0.00

S2 0.086827



t	q
0	0.000
2	0.249
4	0.498
6	0.748
8	0.997
10	1.246
12	1.495
14	1.667
16	1.667
18	1.667
20	1.667
22	1.667
24	1.531
26	1.358
28	1.184
30	1.011
32	0.837
34	0.663
36	0.490
38	0.316
40	0.142
42	0.000
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

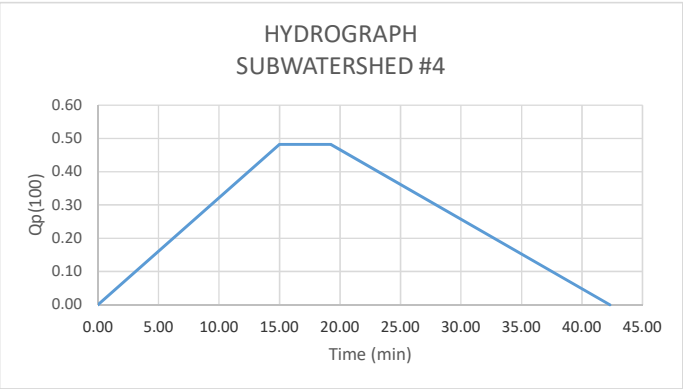
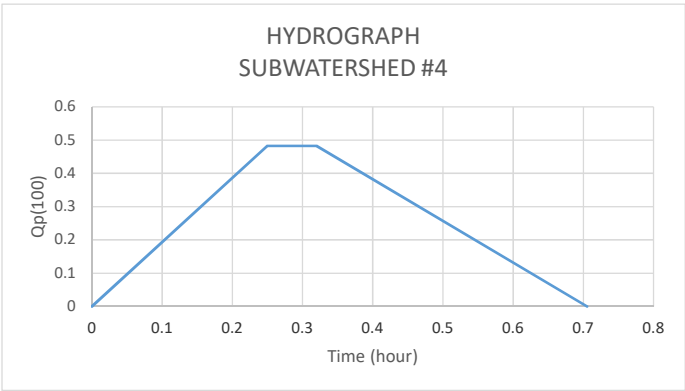
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 4	
x (hour)	y
0	0
0.250	0.48
0.320	0.48
0.705	0

x (min)	y
0.00	0.00
15.00	0.48
19.21	0.48
42.31	0.00

S20.020881



t	q
0	0.000
2	0.064
4	0.129
6	0.193
8	0.257
10	0.322
12	0.386
14	0.450
16	0.482
18	0.482
20	0.466
22	0.424
24	0.382
26	0.341
28	0.299
30	0.257
32	0.215
34	0.174
36	0.132
38	0.090
40	0.048
42	0.007
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

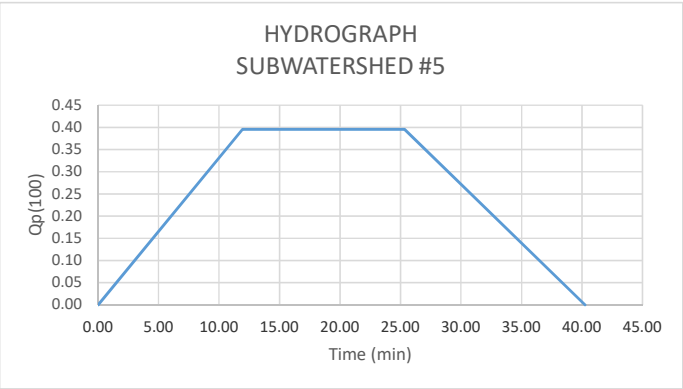
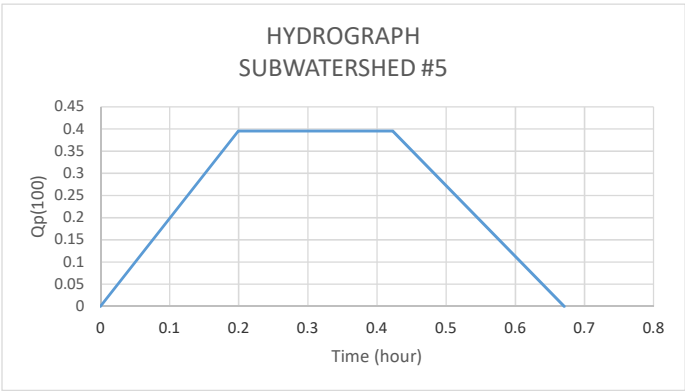
t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 5	
x (hour)	y
0	0
0.199	0.40
0.422	0.40
0.671	0

x (min)	y
0.00	0.00
11.95	0.40
25.35	0.40
40.25	0.00

S2

0.026544



t	q
0	0.000
2	0.066
4	0.132
6	0.199
8	0.265
10	0.331
12	0.396
14	0.396
16	0.396
18	0.396
20	0.396
22	0.396
24	0.396
26	0.378
28	0.325
30	0.272
32	0.219
34	0.166
36	0.113
38	0.060
40	0.007
42	0.000
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

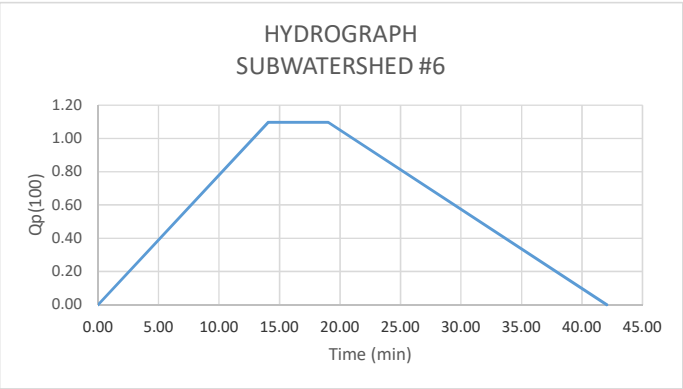
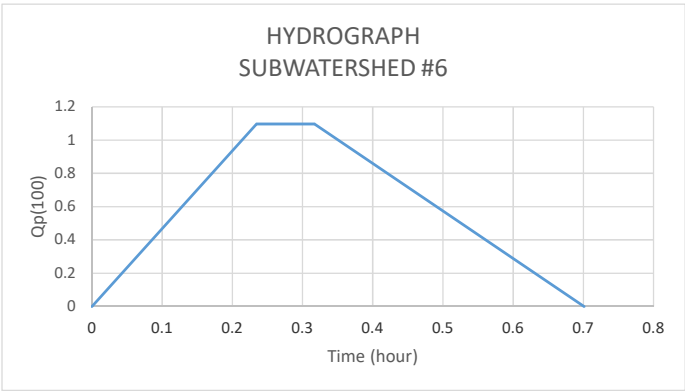
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 6	
x (hour)	y
0	0
0.234	1.10
0.317	1.10
0.701	0

x (min)	y
0.00	0.00
14.06	1.10
19.03	1.10
42.06	0.00

S2 0.047623



t	q
0	0.000
2	0.156
4	0.312
6	0.468
8	0.624
10	0.780
12	0.936
14	1.092
16	1.097
18	1.097
20	1.050
22	0.955
24	0.860
26	0.765
28	0.669
30	0.574
32	0.479
34	0.384
36	0.288
38	0.193
40	0.098
42	0.003
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

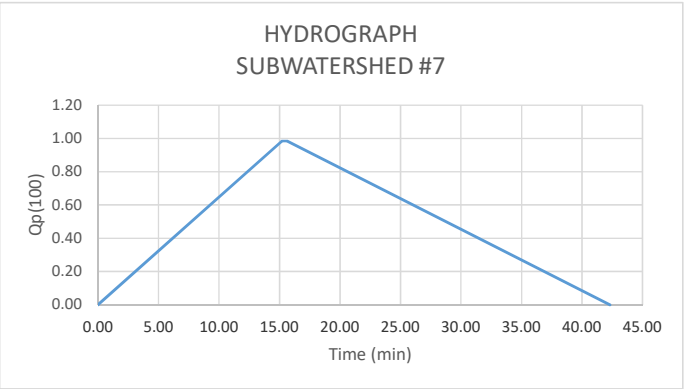
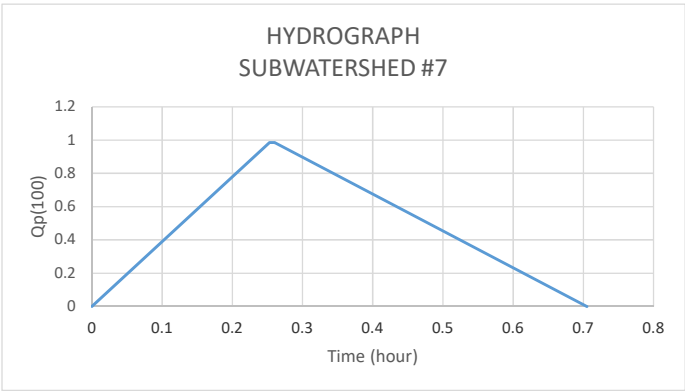
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 7	
x (hour)	y
0	0
0.253	0.98
0.261	0.98
0.705	0

x (min)	y
0.00	0.00
15.19	0.98
15.63	0.98
42.31	0.00

S20.036915



t	q
0	0.000
2	0.130
4	0.259
6	0.389
8	0.519
10	0.648
12	0.778
14	0.908
16	0.971
18	0.897
20	0.823
22	0.750
24	0.676
26	0.602
28	0.528
30	0.454
32	0.380
34	0.307
36	0.233
38	0.159
40	0.085
42	0.011
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

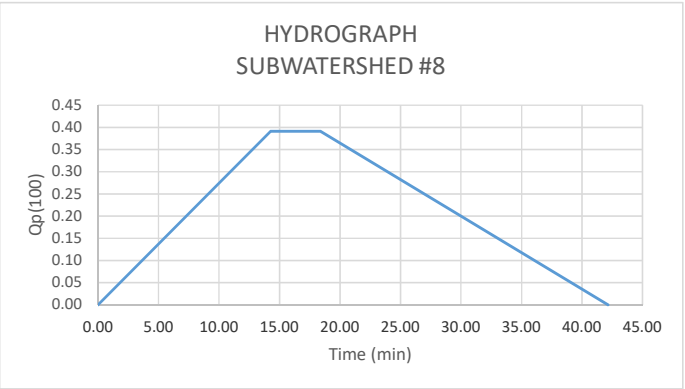
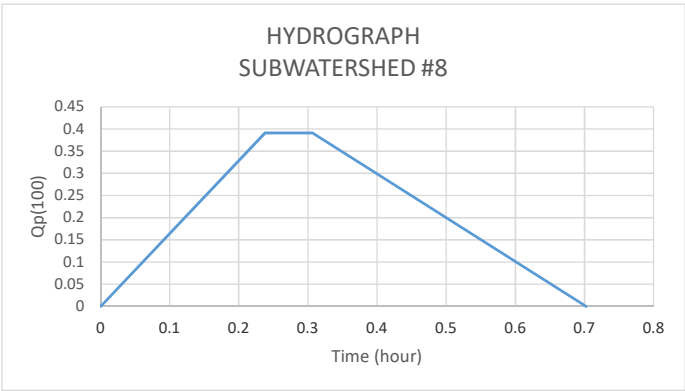
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 8	
x (hour)	y
0	0
0.238	0.39
0.307	0.39
0.703	0

x (min)	y
0.00	0.00
14.27	0.39
18.40	0.39
42.15	0.00

S20.016463



t	q
0	0.000
2	0.055
4	0.110
6	0.164
8	0.219
10	0.274
12	0.329
14	0.384
16	0.391
18	0.391
20	0.365
22	0.332
24	0.299
26	0.266
28	0.233
30	0.200
32	0.167
34	0.134
36	0.101
38	0.068
40	0.035
42	0.002
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

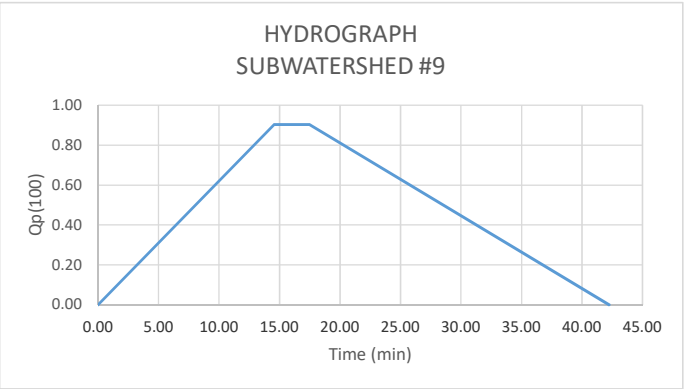
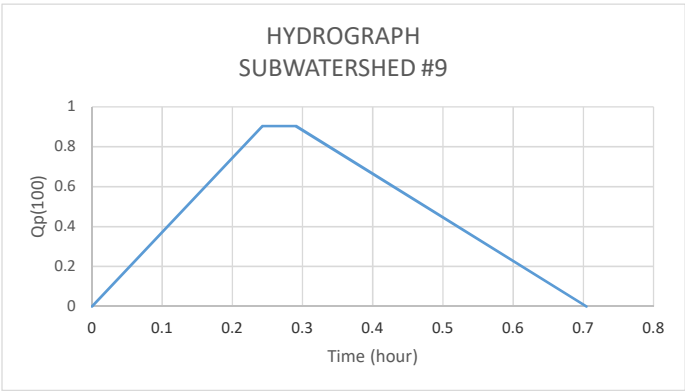
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 9	
x (hour)	y
0	0
0.243	0.90
0.291	0.90
0.704	0

x (min)	y
0.00	0.00
14.59	0.90
17.44	0.90
42.25	0.00

S20.036422



t	q
0	0.000
2	0.124
4	0.248
6	0.372
8	0.496
10	0.619
12	0.743
14	0.867
16	0.903
18	0.883
20	0.810
22	0.737
24	0.665
26	0.592
28	0.519
30	0.446
32	0.373
34	0.300
36	0.227
38	0.155
40	0.082
42	0.009
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

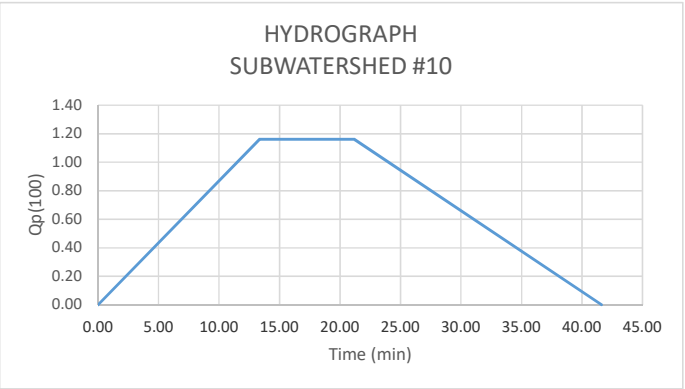
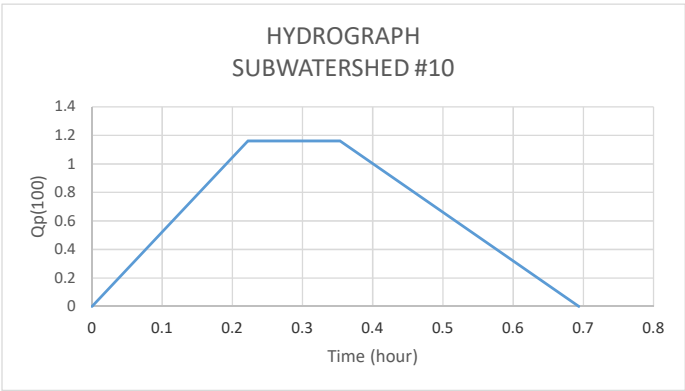
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 10	
x (hour)	y
0	0
0.222	1.16
0.353	1.16
0.693	0

x (min)	y
0.00	0.00
13.33	1.16
21.21	1.16
41.60	0.00

S20.056881



t	q
0	0.000
2	0.174
4	0.348
6	0.522
8	0.696
10	0.870
12	1.044
14	1.160
16	1.160
18	1.160
20	1.160
22	1.115
24	1.002
26	0.888
28	0.774
30	0.660
32	0.547
34	0.433
36	0.319
38	0.205
40	0.091
42	0.000
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

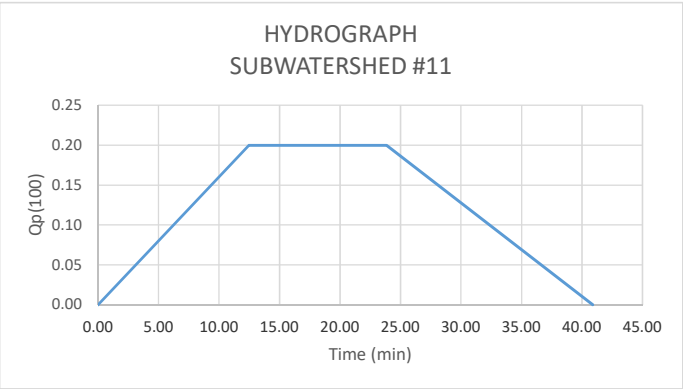
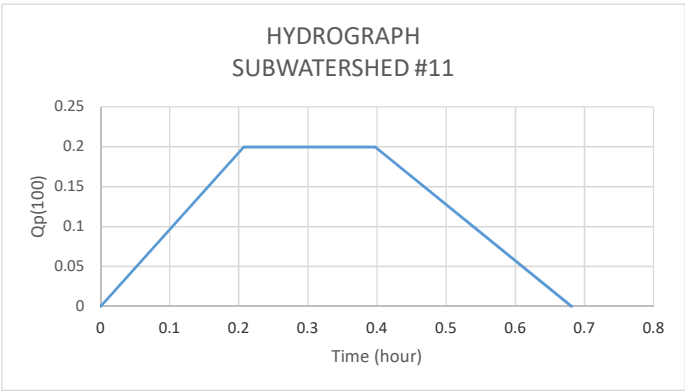
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 11	
x (hour)	y
0	0
0.208	0.20
0.398	0.20
0.681	0

x (min)	y
0.00	0.00
12.45	0.20
23.85	0.20
40.88	0.00

S20.011721



t	q
0	0.000
2	0.032
4	0.064
6	0.096
8	0.128
10	0.160
12	0.192
14	0.200
16	0.200
18	0.200
20	0.200
22	0.200
24	0.198
26	0.174
28	0.151
30	0.128
32	0.104
34	0.081
36	0.057
38	0.034
40	0.010
42	0.000
44	0.000
46	0.000
48	0.000
50	0.000
52	0.000
54	0.000
56	0.000
58	0.000
60	0.000

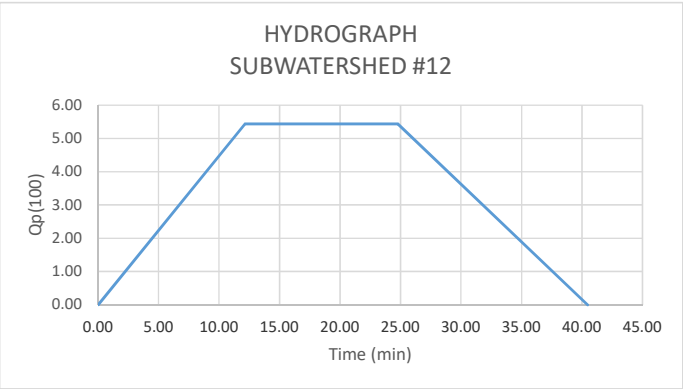
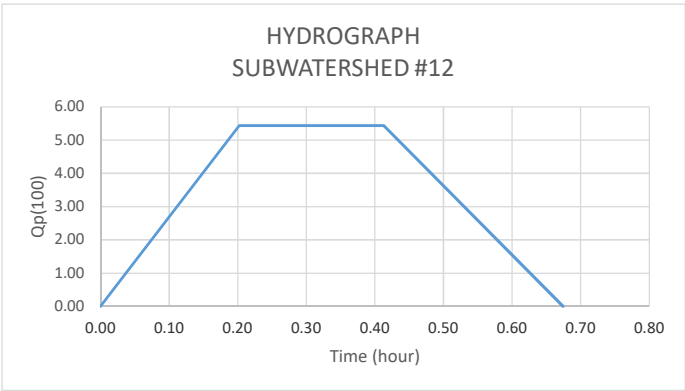
t	q
62	0.00
64	0.00
66	0.00
68	0.00
70	0.00
72	0.00
74	0.00
76	0.00
78	0.00
80	0.00
82	0.00
84	0.00
86	0.00
88	0.00
90	0.00
92	0.00
94	0.00
96	0.00
98	0.00
100	0.00
102	0.00
104	0.00
106	0.00
108	0.00
110	0.00
112	0.00
114	0.00
116	0.00
118	0.00
120	0.00

t	q
122	0.00
124	0.00
126	0.00
128	0.00
130	0.00
132	0.00
134	0.00
136	0.00
138	0.00
140	0.00
142	0.00
144	0.00
146	0.00
148	0.00
150	0.00
152	0.00
154	0.00
156	0.00
158	0.00
160	0.00
162	0.00
164	0.00
166	0.00
168	0.00
170	0.00
172	0.00
174	0.00
176	0.00
178	0.00
180	0.00

Subwatershed 12	
x (hour)	y
0.00	0.00
0.20	5.43
0.41	5.43
0.67	0.00

x (min)	y
0.00	0.00
12.14	5.43
24.79	5.43
40.46	0.00

S2 0.346689



t	q
0	0.0
2	0.9
4	1.8
6	2.7
8	3.6
10	4.5
12	5.4
14	5.4
16	5.4
18	5.4
20	5.4
22	5.4
24	5.4
26	5.0
28	4.3
30	3.6
32	2.9
34	2.2
36	1.6
38	0.9
40	0.2
42	0.0
44	0.0
46	0.0
48	0.0
50	0.0
52	0.0
54	0.0
56	0.0
58	0.0
60	0.0

t	q
62	0.0
64	0.0
66	0.0
68	0.0
70	0.0
72	0.0
74	0.0
76	0.0
78	0.0
80	0.0
82	0.0
84	0.0
86	0.0
88	0.0
90	0.0
92	0.0
94	0.0
96	0.0
98	0.0
100	0.0
102	0.0
104	0.0
106	0.0
108	0.0
110	0.0
112	0.0
114	0.0
116	0.0
118	0.0
120	0.0

t	q
122	0.0
124	0.0
126	0.0
128	0.0
130	0.0
132	0.0
134	0.0
136	0.0
138	0.0
140	0.0
142	0.0
144	0.0
146	0.0
148	0.0
150	0.0
152	0.0
154	0.0
156	0.0
158	0.0
160	0.0
162	0.0
164	0.0
166	0.0
168	0.0
170	0.0
172	0.0
174	0.0
176	0.0
178	0.0
180	0.0

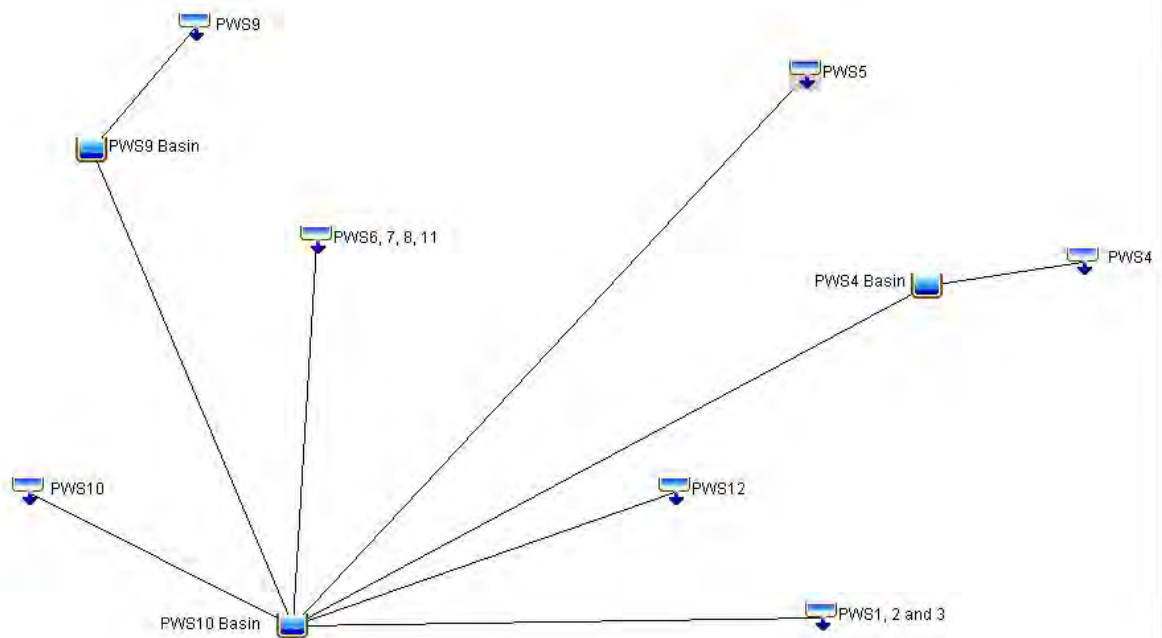


HEC-HMS

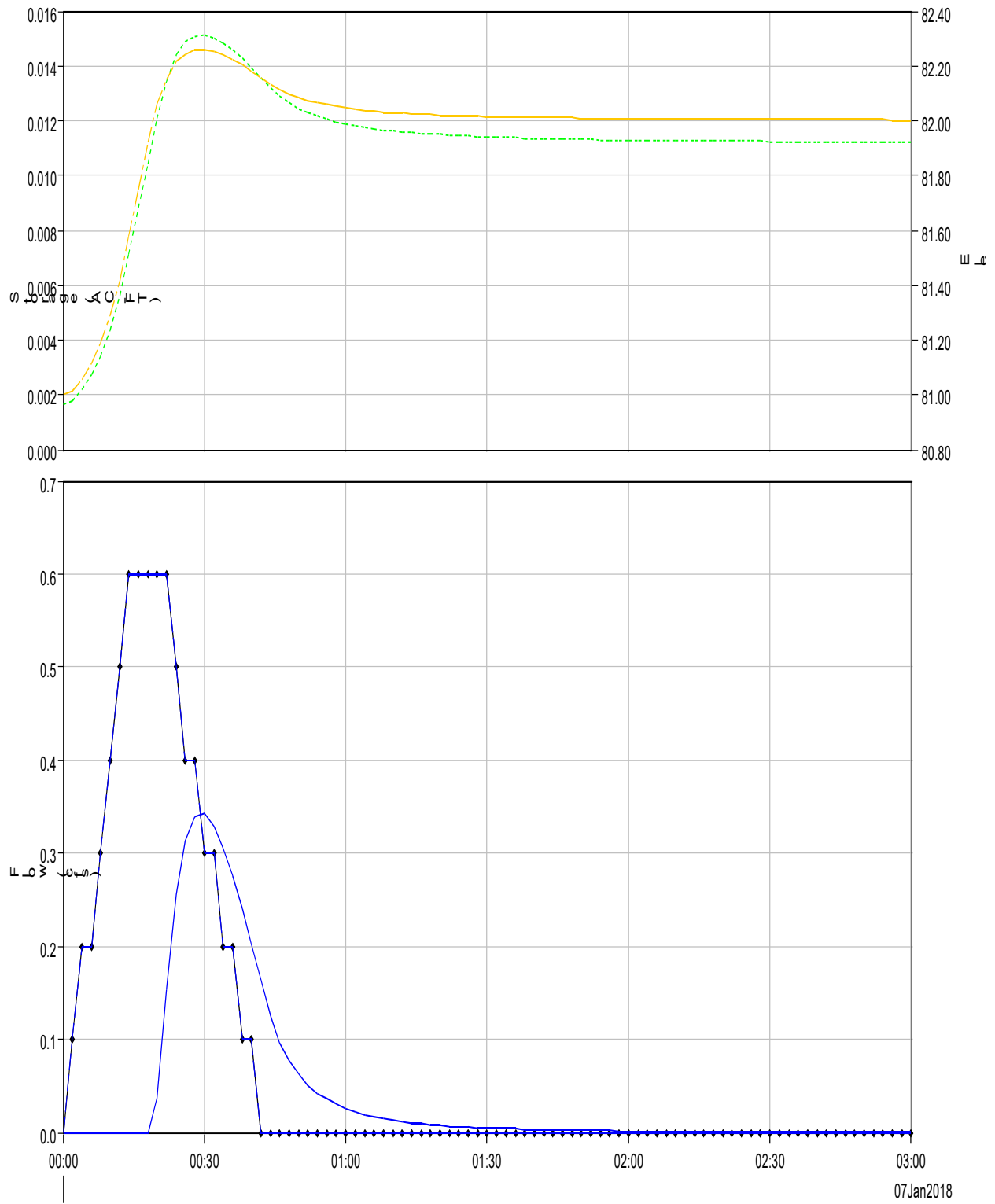
Project : Generations FINAL MODEL

Basin Model : FINAL

Apr 11 15:51:48 MST 2018



Reservoir "PWS1 Basin" Results for Run "Test"



--- Run:Test Element:PWS1 Basin Result:Storage
 --- Run:Test Element:PWS1 Basin Result:Pool Elevation
 ◆ Run:Test Element:PWS1 Basin Result:Observed Flow
--- Run:Test Element:PWS1 Basin Result:Outflow
 --- Run:Test Element:PWS1 Basin Result:Combined Inflow

Project: Generations at West Mesa Simulation Run: Test
Reservoir: PWS1 Basin

Start of Run:	07Jan2018, 00:00	Basin Model:	EWS1
End of Run:	07Jan2018, 03:00	Meteorologic Model:	Met 1
Compute Time:	11Apr2018, 16:14:28	Control Specifications:	Control 1

Volume Units:IN

Computed Results

Peak Inflow:	0.6 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:14
Peak Discharge:	0.3 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:30
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume	n/a	Peak Elevation:	82.3 (FT)

Observed Hydrograph at Gage PWS1

Peak Discharge:	0.6 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:14
Mean Abs Error:	0.1 (CFS)	RMS Error:	0.2 (CFS)
Volume:	(IN)	Volume Residual:	(IN)
Nash-Sutcliffe:	0.110		

Project: Generations at West Mesa Simulation Run: Test
Reservoir: PWS1 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: 11Apr2018, 16:14:28 Control Specifications: Control 1

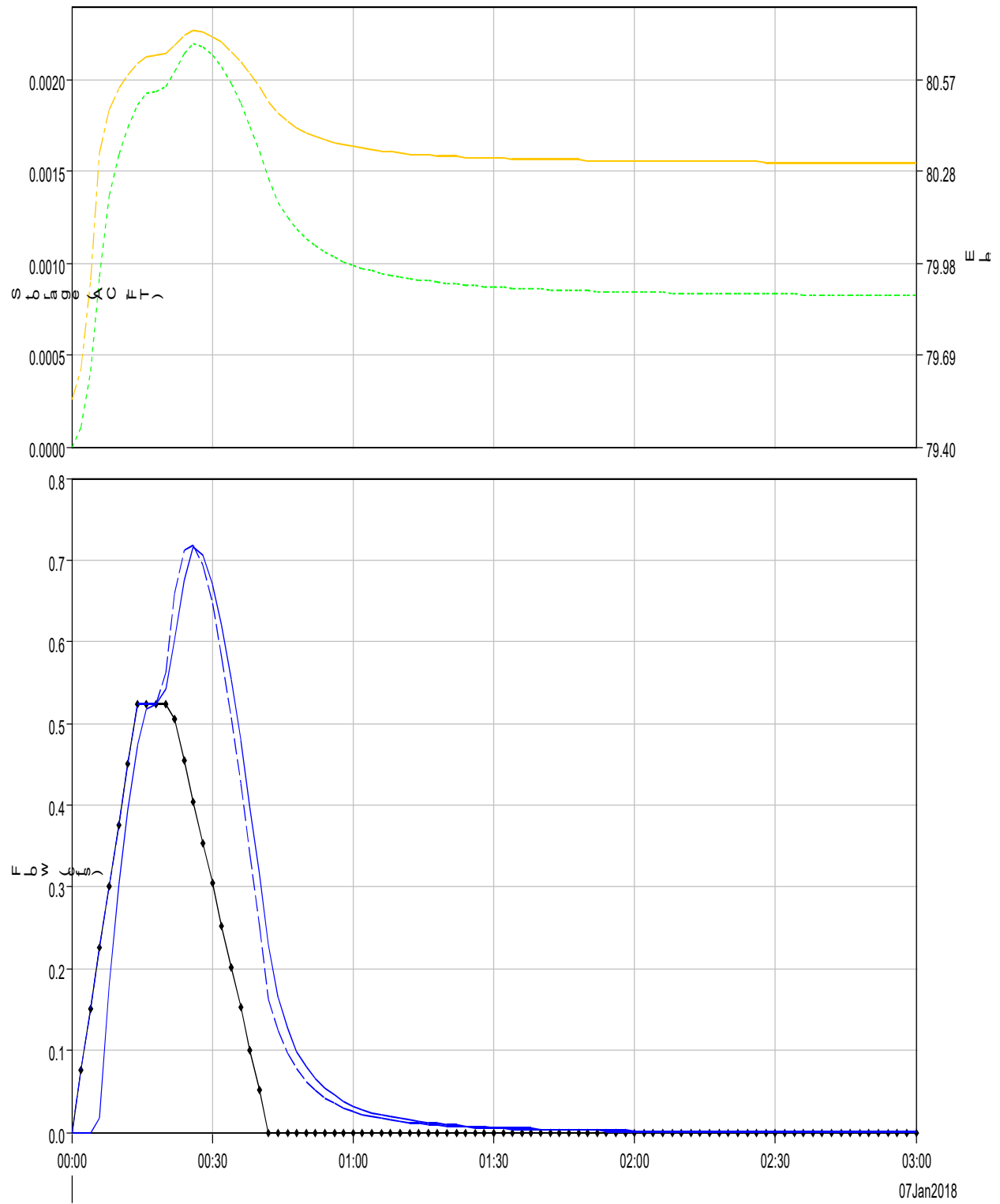
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:00	0.0	0.0	81.0	0.0	0.0
07Jan2018	00:02	0.1	0.0	81.0	0.0	0.1
07Jan2018	00:04	0.2	0.0	81.1	0.0	0.2
07Jan2018	00:06	0.2	0.0	81.1	0.0	0.2
07Jan2018	00:08	0.3	0.0	81.2	0.0	0.3
07Jan2018	00:10	0.4	0.0	81.3	0.0	0.4
07Jan2018	00:12	0.5	0.0	81.4	0.0	0.5
07Jan2018	00:14	0.6	0.0	81.6	0.0	0.6
07Jan2018	00:16	0.6	0.0	81.7	0.0	0.6
07Jan2018	00:18	0.6	0.0	81.9	0.0	0.6
07Jan2018	00:20	0.6	0.0	82.1	0.0	0.6
07Jan2018	00:22	0.6	0.0	82.2	0.2	0.6
07Jan2018	00:24	0.5	0.0	82.2	0.3	0.5
07Jan2018	00:26	0.4	0.0	82.2	0.3	0.4
07Jan2018	00:28	0.4	0.0	82.3	0.3	0.4
07Jan2018	00:30	0.3	0.0	82.3	0.3	0.3
07Jan2018	00:32	0.3	0.0	82.3	0.3	0.3
07Jan2018	00:34	0.2	0.0	82.2	0.3	0.2
07Jan2018	00:36	0.2	0.0	82.2	0.3	0.2
07Jan2018	00:38	0.1	0.0	82.2	0.2	0.1
07Jan2018	00:40	0.1	0.0	82.2	0.2	0.1
07Jan2018	00:42	0.0	0.0	82.2	0.2	0.0
07Jan2018	00:44	0.0	0.0	82.1	0.1	0.0
07Jan2018	00:46	0.0	0.0	82.1	0.1	0.0
07Jan2018	00:48	0.0	0.0	82.1	0.1	0.0
07Jan2018	00:50	0.0	0.0	82.1	0.1	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:52	0.0	0.0	82.1	0.1	0.0
07Jan2018	00:54	0.0	0.0	82.1	0.0	0.0
07Jan2018	00:56	0.0	0.0	82.1	0.0	0.0
07Jan2018	00:58	0.0	0.0	82.1	0.0	0.0
07Jan2018	01:00	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:02	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:04	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:06	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:08	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:10	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:12	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:14	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:16	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:18	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:20	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:22	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:24	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:26	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:28	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:30	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:32	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:34	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:36	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:38	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:40	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:42	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:44	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:46	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:48	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:50	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:52	0.0	0.0	82.0	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	01:54	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:56	0.0	0.0	82.0	0.0	0.0
07Jan2018	01:58	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:00	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:02	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:04	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:06	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:08	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:10	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:12	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:14	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:16	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:18	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:20	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:22	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:24	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:26	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:28	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:30	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:32	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:34	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:36	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:38	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:40	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:42	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:44	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:46	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:48	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:50	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:52	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:54	0.0	0.0	82.0	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	02:56	0.0	0.0	82.0	0.0	0.0
07Jan2018	02:58	0.0	0.0	82.0	0.0	0.0
07Jan2018	03:00	0.0	0.0	82.0	0.0	0.0

Reservoir "PWS2 Basin" Results for Run "Test"



--- Run:Test Element:PWS2 Basin Result:Storage
 --- Run:Test Element:PWS2 Basin Result:Pool Elevation
 ◆ Run:Test Element:PWS2 Basin Result:Observed Flow
--- Run:Test Element:PWS2 Basin Result:Outflow
 --- Run:Test Element:PWS2 Basin Result:Combined Inflow

Project: Generations at West Mesa Simulation Run: Test
Reservoir: PWS2 Basin

Start of Run:	07Jan2018, 00:00	Basin Model:	EWS1
End of Run:	07Jan2018, 03:00	Meteorologic Model:	Met 1
Compute Time:	11Apr2018, 16:14:28	Control Specifications:	Control 1

Volume Units:IN

Computed Results

Peak Inflow:	0.7 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:26
Peak Discharge:	0.7 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:26
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume	n/a	Peak Elevation:	80.7 (FT)

Observed Hydrograph at Gage PWS2

Peak Discharge:	0.5 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:14
Mean Abs Error:	0.1 (CFS)	RMS Error:	0.1 (CFS)
Volume:	(IN)	Volume Residual:	(IN)
Nash-Sutcliffe:	0.457		

Project: Generations at West Mesa Simulation Run: Test
Reservoir: PWS2 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: 11Apr2018, 16:14:28 Control Specifications: Control 1

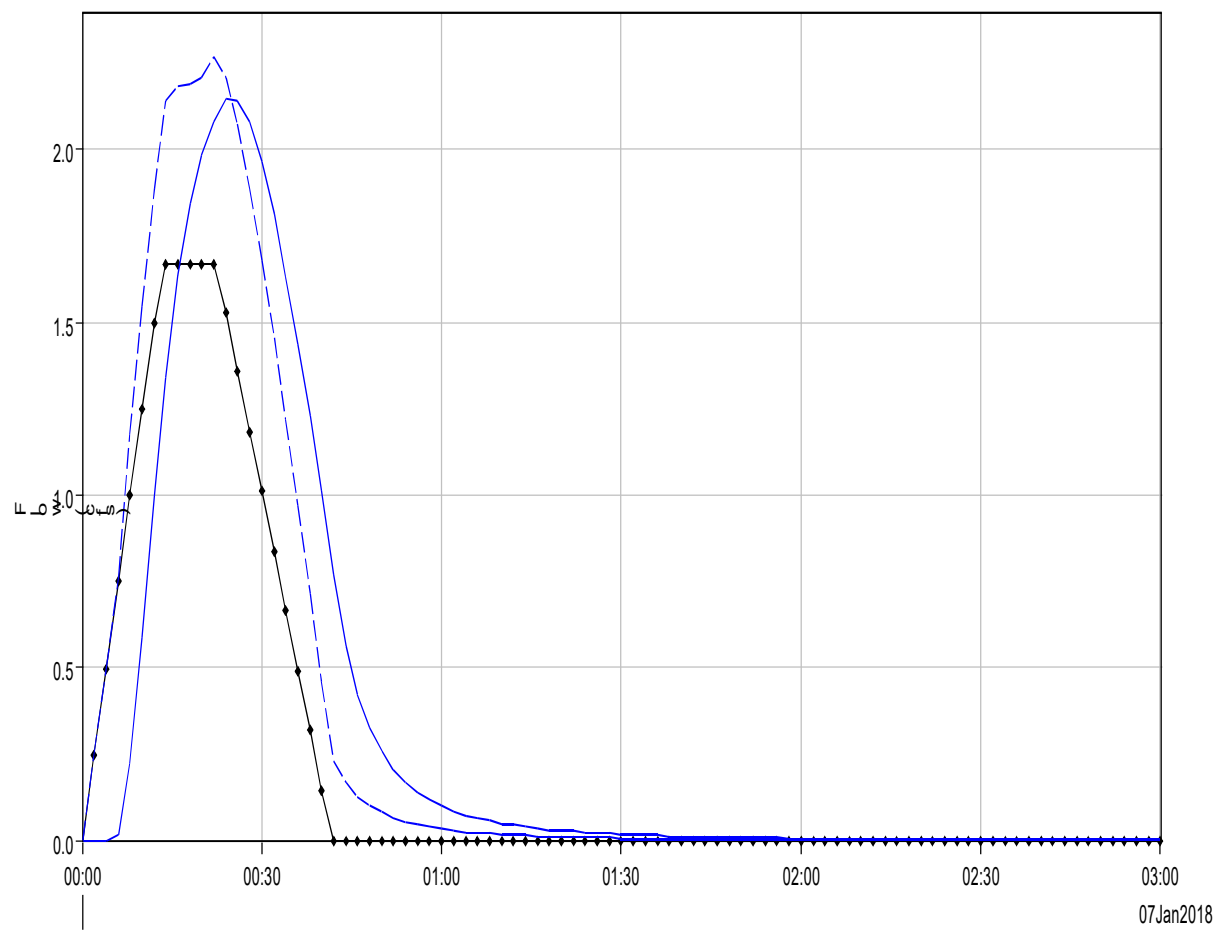
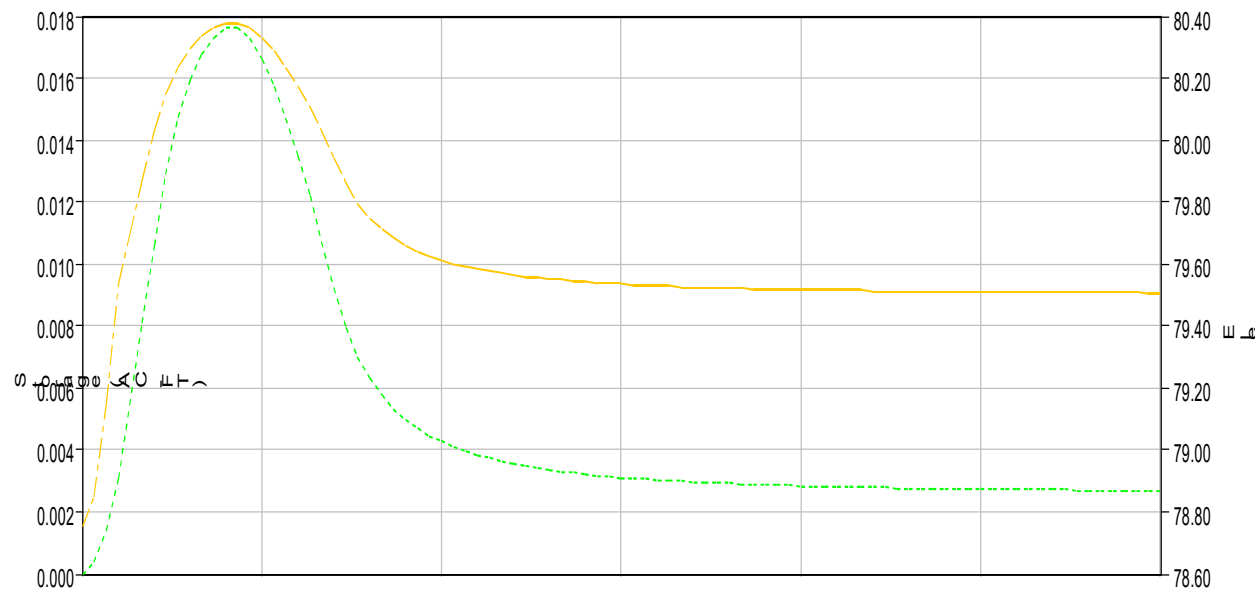
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:00	0.0	0.0	79.5	0.0	0.0
07Jan2018	00:02	0.1	0.0	79.6	0.0	0.1
07Jan2018	00:04	0.1	0.0	79.9	0.0	0.1
07Jan2018	00:06	0.2	0.0	80.3	0.0	0.2
07Jan2018	00:08	0.3	0.0	80.5	0.2	0.3
07Jan2018	00:10	0.4	0.0	80.5	0.3	0.4
07Jan2018	00:12	0.5	0.0	80.6	0.4	0.5
07Jan2018	00:14	0.5	0.0	80.6	0.5	0.5
07Jan2018	00:16	0.5	0.0	80.6	0.5	0.5
07Jan2018	00:18	0.5	0.0	80.6	0.5	0.5
07Jan2018	00:20	0.6	0.0	80.7	0.5	0.5
07Jan2018	00:22	0.7	0.0	80.7	0.6	0.5
07Jan2018	00:24	0.7	0.0	80.7	0.7	0.5
07Jan2018	00:26	0.7	0.0	80.7	0.7	0.4
07Jan2018	00:28	0.7	0.0	80.7	0.7	0.4
07Jan2018	00:30	0.6	0.0	80.7	0.7	0.3
07Jan2018	00:32	0.6	0.0	80.7	0.6	0.3
07Jan2018	00:34	0.5	0.0	80.7	0.6	0.2
07Jan2018	00:36	0.4	0.0	80.6	0.5	0.2
07Jan2018	00:38	0.3	0.0	80.6	0.4	0.1
07Jan2018	00:40	0.3	0.0	80.5	0.3	0.1
07Jan2018	00:42	0.2	0.0	80.5	0.2	0.0
07Jan2018	00:44	0.1	0.0	80.5	0.2	0.0
07Jan2018	00:46	0.1	0.0	80.4	0.1	0.0
07Jan2018	00:48	0.1	0.0	80.4	0.1	0.0
07Jan2018	00:50	0.1	0.0	80.4	0.1	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:52	0.1	0.0	80.4	0.1	0.0
07Jan2018	00:54	0.0	0.0	80.4	0.1	0.0
07Jan2018	00:56	0.0	0.0	80.4	0.0	0.0
07Jan2018	00:58	0.0	0.0	80.4	0.0	0.0
07Jan2018	01:00	0.0	0.0	80.4	0.0	0.0
07Jan2018	01:02	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:04	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:06	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:08	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:10	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:12	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:14	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:16	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:18	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:20	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:22	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:24	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:26	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:28	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:30	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:32	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:34	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:36	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:38	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:40	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:42	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:44	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:46	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:48	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:50	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:52	0.0	0.0	80.3	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	01:54	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:56	0.0	0.0	80.3	0.0	0.0
07Jan2018	01:58	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:00	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:02	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:04	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:06	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:08	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:10	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:12	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:14	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:16	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:18	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:20	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:22	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:24	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:26	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:28	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:30	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:32	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:34	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:36	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:38	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:40	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:42	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:44	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:46	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:48	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:50	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:52	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:54	0.0	0.0	80.3	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	02:56	0.0	0.0	80.3	0.0	0.0
07Jan2018	02:58	0.0	0.0	80.3	0.0	0.0
07Jan2018	03:00	0.0	0.0	80.3	0.0	0.0

Reservoir "PWS3a Basin" Results for Run "Test"



Run:Test Element:PWS3a Basin Result:Storage Run:Test Element:PWS3a Basin Result:Pool Elevation Run:Test Element:PWS3a Basin Result:Observed Flow
Run:Test Element:PWS3a Basin Result:Outflow Run:Test Element:PWS3a Basin Result:Combined Inflow

Project: Generations at West Mesa Simulation Run: Test
Reservoir: PWS3a Basin

Start of Run:	07Jan2018, 00:00	Basin Model:	EWS1
End of Run:	07Jan2018, 03:00	Meteorologic Model:	Met 1
Compute Time:	11Apr2018, 16:14:28	Control Specifications:	Control 1

Volume Units:IN

Computed Results

Peak Inflow:	2.3 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:22
Peak Discharge:	2.1 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:24
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume	n/a	Peak Elevation:	80.4 (FT)

Observed Hydrograph at Gage PWS3

Peak Discharge:	1.7 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:14
Mean Abs Error:	0.2 (CFS)	RMS Error:	0.3 (CFS)
Volume:	(IN)	Volume Residual:	(IN)
Nash-Sutcliffe:	0.516		

Project: Generations at West Mesa Simulation Run: Test
 Reservoir: PWS3a Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
 End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
 Compute Time: 11Apr2018, 16:14:28 Control Specifications: Control 1

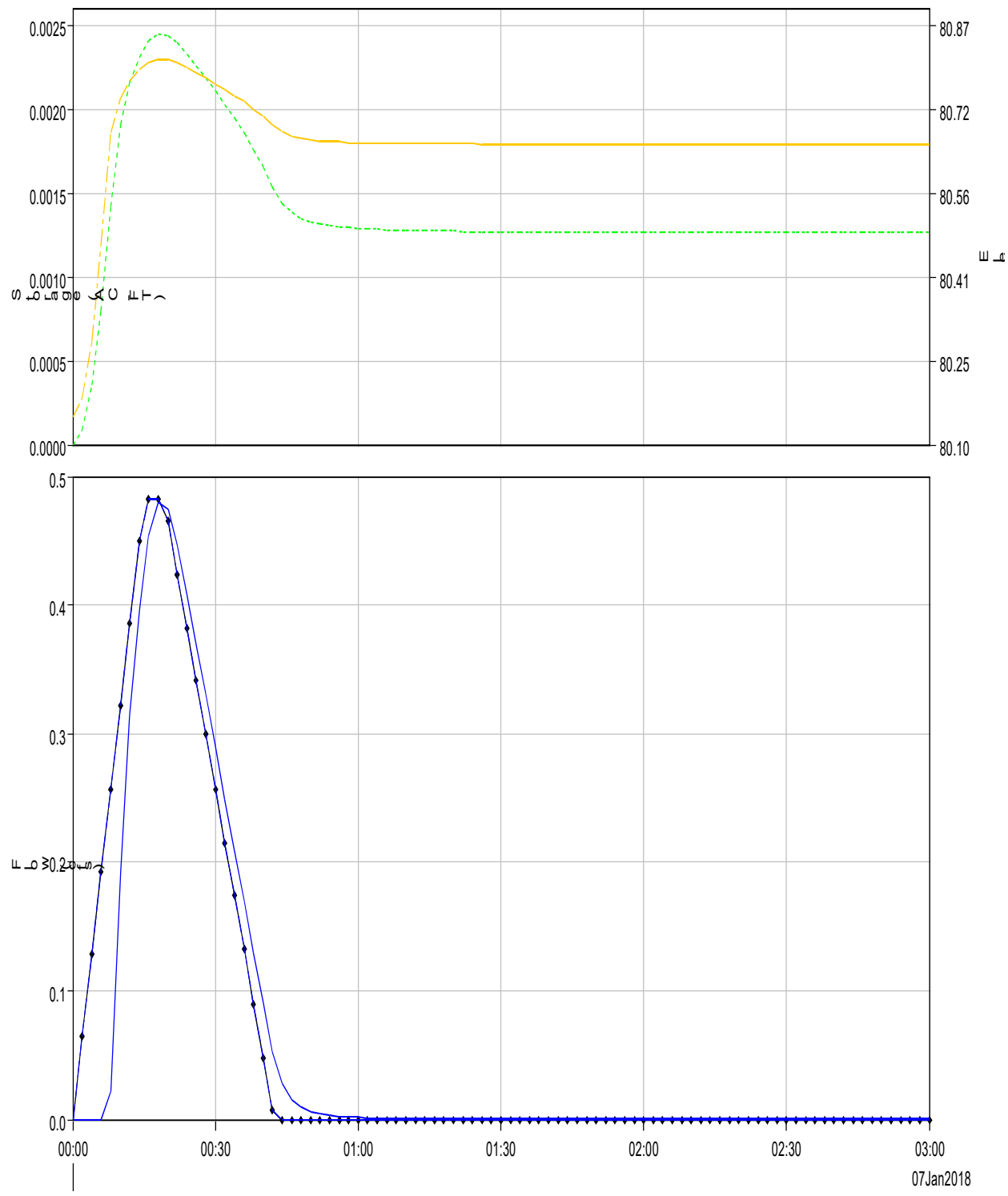
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:00	0.0	0.0	78.7	0.0	0.0
07Jan2018	00:02	0.2	0.0	78.8	0.0	0.2
07Jan2018	00:04	0.5	0.0	79.1	0.0	0.5
07Jan2018	00:06	0.8	0.0	79.5	0.0	0.7
07Jan2018	00:08	1.2	0.0	79.7	0.2	1.0
07Jan2018	00:10	1.5	0.0	79.9	0.6	1.2
07Jan2018	00:12	1.9	0.0	80.0	1.0	1.5
07Jan2018	00:14	2.1	0.0	80.1	1.3	1.7
07Jan2018	00:16	2.2	0.0	80.2	1.6	1.7
07Jan2018	00:18	2.2	0.0	80.3	1.8	1.7
07Jan2018	00:20	2.2	0.0	80.3	2.0	1.7
07Jan2018	00:22	2.3	0.0	80.4	2.1	1.7
07Jan2018	00:24	2.2	0.0	80.4	2.1	1.5
07Jan2018	00:26	2.1	0.0	80.4	2.1	1.4
07Jan2018	00:28	1.9	0.0	80.4	2.1	1.2
07Jan2018	00:30	1.7	0.0	80.3	2.0	1.0
07Jan2018	00:32	1.5	0.0	80.3	1.8	0.8
07Jan2018	00:34	1.2	0.0	80.2	1.6	0.7
07Jan2018	00:36	1.0	0.0	80.2	1.4	0.5
07Jan2018	00:38	0.7	0.0	80.1	1.2	0.3
07Jan2018	00:40	0.5	0.0	80.0	1.0	0.1
07Jan2018	00:42	0.2	0.0	79.9	0.8	0.0
07Jan2018	00:44	0.2	0.0	79.9	0.6	0.0
07Jan2018	00:46	0.1	0.0	79.8	0.4	0.0
07Jan2018	00:48	0.1	0.0	79.7	0.3	0.0
07Jan2018	00:50	0.1	0.0	79.7	0.3	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:52	0.1	0.0	79.7	0.2	0.0
07Jan2018	00:54	0.1	0.0	79.7	0.2	0.0
07Jan2018	00:56	0.0	0.0	79.6	0.1	0.0
07Jan2018	00:58	0.0	0.0	79.6	0.1	0.0
07Jan2018	01:00	0.0	0.0	79.6	0.1	0.0
07Jan2018	01:02	0.0	0.0	79.6	0.1	0.0
07Jan2018	01:04	0.0	0.0	79.6	0.1	0.0
07Jan2018	01:06	0.0	0.0	79.6	0.1	0.0
07Jan2018	01:08	0.0	0.0	79.6	0.1	0.0
07Jan2018	01:10	0.0	0.0	79.6	0.0	0.0
07Jan2018	01:12	0.0	0.0	79.6	0.0	0.0
07Jan2018	01:14	0.0	0.0	79.6	0.0	0.0
07Jan2018	01:16	0.0	0.0	79.6	0.0	0.0
07Jan2018	01:18	0.0	0.0	79.6	0.0	0.0
07Jan2018	01:20	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:22	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:24	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:26	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:28	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:30	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:32	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:34	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:36	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:38	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:40	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:42	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:44	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:46	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:48	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:50	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:52	0.0	0.0	79.5	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	01:54	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:56	0.0	0.0	79.5	0.0	0.0
07Jan2018	01:58	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:00	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:02	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:04	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:06	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:08	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:10	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:12	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:14	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:16	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:18	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:20	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:22	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:24	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:26	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:28	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:30	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:32	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:34	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:36	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:38	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:40	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:42	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:44	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:46	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:48	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:50	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:52	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:54	0.0	0.0	79.5	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	02:56	0.0	0.0	79.5	0.0	0.0
07Jan2018	02:58	0.0	0.0	79.5	0.0	0.0
07Jan2018	03:00	0.0	0.0	79.5	0.0	0.0

Reservoir "PWS4 Basin" Results for Run "Run 1"



- Run:Run 1 Element:PWS4 Basin Result:Storage EXPIRED
- Run:Run 1 Element:PWS4 Basin Result:Pool Elevation EXPIRED
- Run:Run 1 Element:PWS4 Basin Result:Observed Flow EXPIRED
- Run:Run 1 Element:PWS4 Basin Result:Outflow EXPIRED
- Run:Run 1 Element:PWS4 Basin Result:Combined Inflow EXPIRED

Project: Generations PWS9 and PWS10 Simulation Run: Run 1
Reservoir: PWS4 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: DATA CHANGED, RECOMPUTE Control Specifications: Control 1

Volume Units:IN

Computed Results

Peak Inflow:	0.5 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:16
Peak Discharge:	0.5 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:18
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume	n/a	Peak Elevation:	80.8 (FT)

Observed Hydrograph at Gage PWS4

Peak Discharge:	0.5 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:16
Mean Abs Error:	0.0 (CFS)	RMS Error:	0.0 (CFS)
Volume:	(IN)	Volume Residual:	(IN)
Nash-Sutcliffe:	0.905		

Project: Generations PWS9 and PWS10 Simulation Run: Run 1
 Reservoir: PWS4 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
 End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
 Compute Time: DATA CHANGED, RECOMPUTE Control Specifications:Control 1

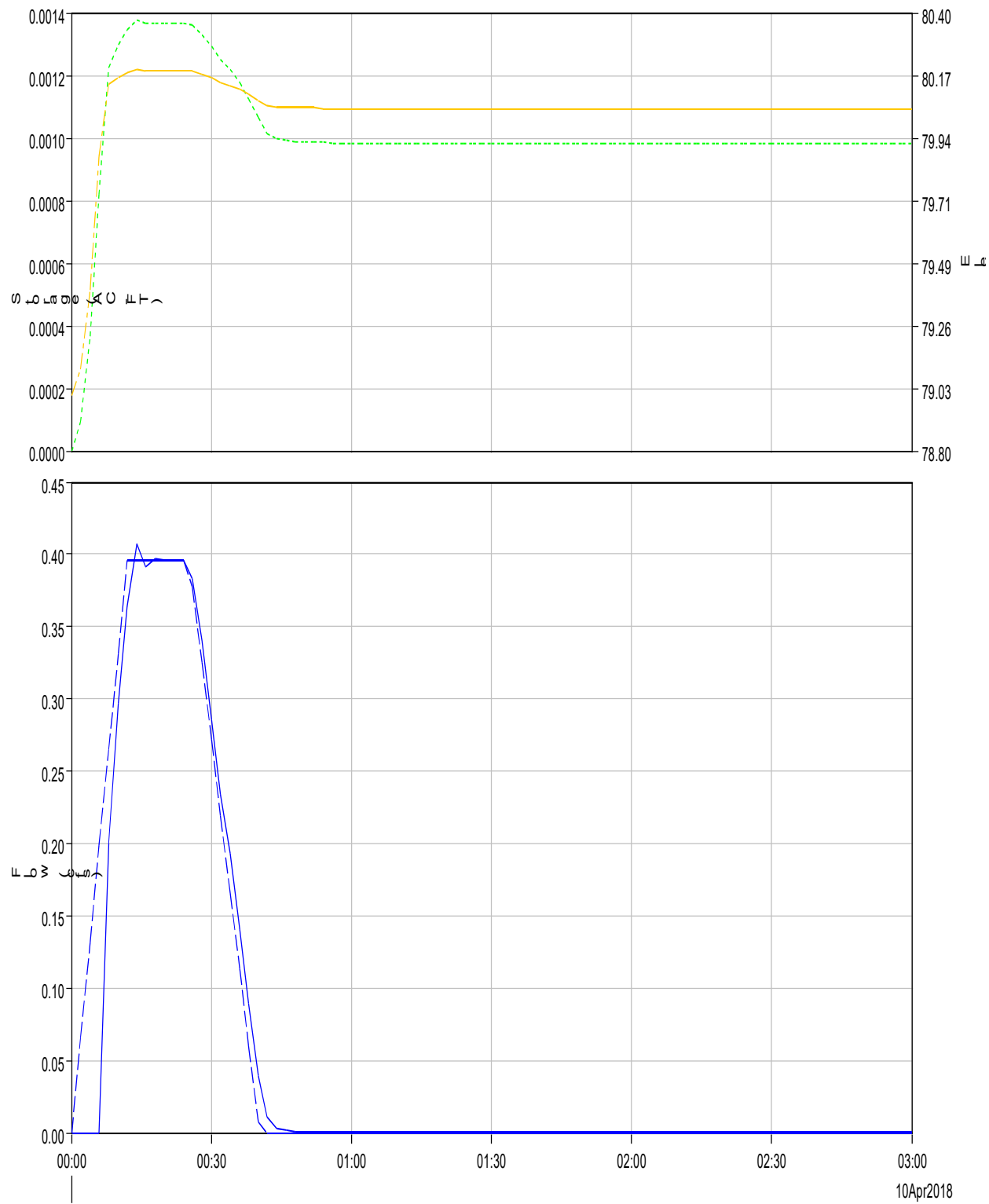
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:00	0.0	0.0	80.2	0.0	0.0
07Jan2018	00:02	0.1	0.0	80.2	0.0	0.1
07Jan2018	00:04	0.1	0.0	80.3	0.0	0.1
07Jan2018	00:06	0.2	0.0	80.5	0.0	0.2
07Jan2018	00:08	0.3	0.0	80.7	0.0	0.3
07Jan2018	00:10	0.3	0.0	80.7	0.2	0.3
07Jan2018	00:12	0.4	0.0	80.8	0.3	0.4
07Jan2018	00:14	0.5	0.0	80.8	0.4	0.5
07Jan2018	00:16	0.5	0.0	80.8	0.5	0.5
07Jan2018	00:18	0.5	0.0	80.8	0.5	0.5
07Jan2018	00:20	0.5	0.0	80.8	0.5	0.5
07Jan2018	00:22	0.4	0.0	80.8	0.4	0.4
07Jan2018	00:24	0.4	0.0	80.8	0.4	0.4
07Jan2018	00:26	0.3	0.0	80.8	0.4	0.3
07Jan2018	00:28	0.3	0.0	80.8	0.3	0.3
07Jan2018	00:30	0.3	0.0	80.8	0.3	0.3
07Jan2018	00:32	0.2	0.0	80.8	0.2	0.2
07Jan2018	00:34	0.2	0.0	80.7	0.2	0.2
07Jan2018	00:36	0.1	0.0	80.7	0.2	0.1
07Jan2018	00:38	0.1	0.0	80.7	0.1	0.1
07Jan2018	00:40	0.0	0.0	80.7	0.1	0.0
07Jan2018	00:42	0.0	0.0	80.7	0.1	0.0
07Jan2018	00:44	0.0	0.0	80.7	0.0	0.0
07Jan2018	00:46	0.0	0.0	80.7	0.0	0.0
07Jan2018	00:48	0.0	0.0	80.7	0.0	0.0
07Jan2018	00:50	0.0	0.0	80.7	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:52	0.0	0.0	80.7	0.0	0.0
07Jan2018	00:54	0.0	0.0	80.7	0.0	0.0
07Jan2018	00:56	0.0	0.0	80.7	0.0	0.0
07Jan2018	00:58	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:00	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:02	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:04	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:06	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:08	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:10	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:12	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:14	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:16	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:18	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:20	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:22	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:24	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:26	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:28	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:30	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:32	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:34	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:36	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:38	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:40	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:42	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:44	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:46	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:48	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:50	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:52	0.0	0.0	80.7	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	01:54	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:56	0.0	0.0	80.7	0.0	0.0
07Jan2018	01:58	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:00	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:02	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:04	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:06	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:08	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:10	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:12	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:14	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:16	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:18	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:20	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:22	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:24	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:26	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:28	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:30	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:32	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:34	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:36	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:38	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:40	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:42	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:44	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:46	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:48	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:50	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:52	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:54	0.0	0.0	80.7	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	02:56	0.0	0.0	80.7	0.0	0.0
07Jan2018	02:58	0.0	0.0	80.7	0.0	0.0
07Jan2018	03:00	0.0	0.0	80.7	0.0	0.0

Reservoir "PWS5 Basin" Results for Run "Run 1"



Run:Run 1 Element:PWS5 Basin Result:Storage Run:Run 1 Element:PWS5 Basin Result:Pool Elevation Run:Run 1 Element:PWS5 Basin Result:Outflow
Run:Run 1 Element:PWS5 Basin Result:Combined Inflow

Project: Generations - PWS5 Simulation Run: Run 1
Reservoir: PWS5 Basin

Start of Run:	10Apr2018, 00:00	Basin Model:	EWS1
End of Run:	10Apr2018, 03:00	Meteorologic Model:	Met 1
Compute Time:	11Apr2018, 16:03:04	Control Specifications:	Control 1

Volume Units: N

Computed Results

Peak Inflow:	0.4 (CFS)	Date/Time of Peak Inflow:	10Apr2018, 00:12
Peak Discharge:	0.4 (CFS)	Date/Time of Peak Discharge:	10Apr2018, 00:14
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume:	n/a	Peak Elevation:	80.2 (FT)

Project: Generations - PWS5 Simulation Run: Run 1
Reservoir: PWS5 Basin

Start of Run: 10Apr2018, 00:00 Basin Model: EWS1
End of Run: 10Apr2018, 03:00 Meteorologic Model: Met 1
Compute Time: 11Apr2018, 16:03:04 Control Specifications: Control 1

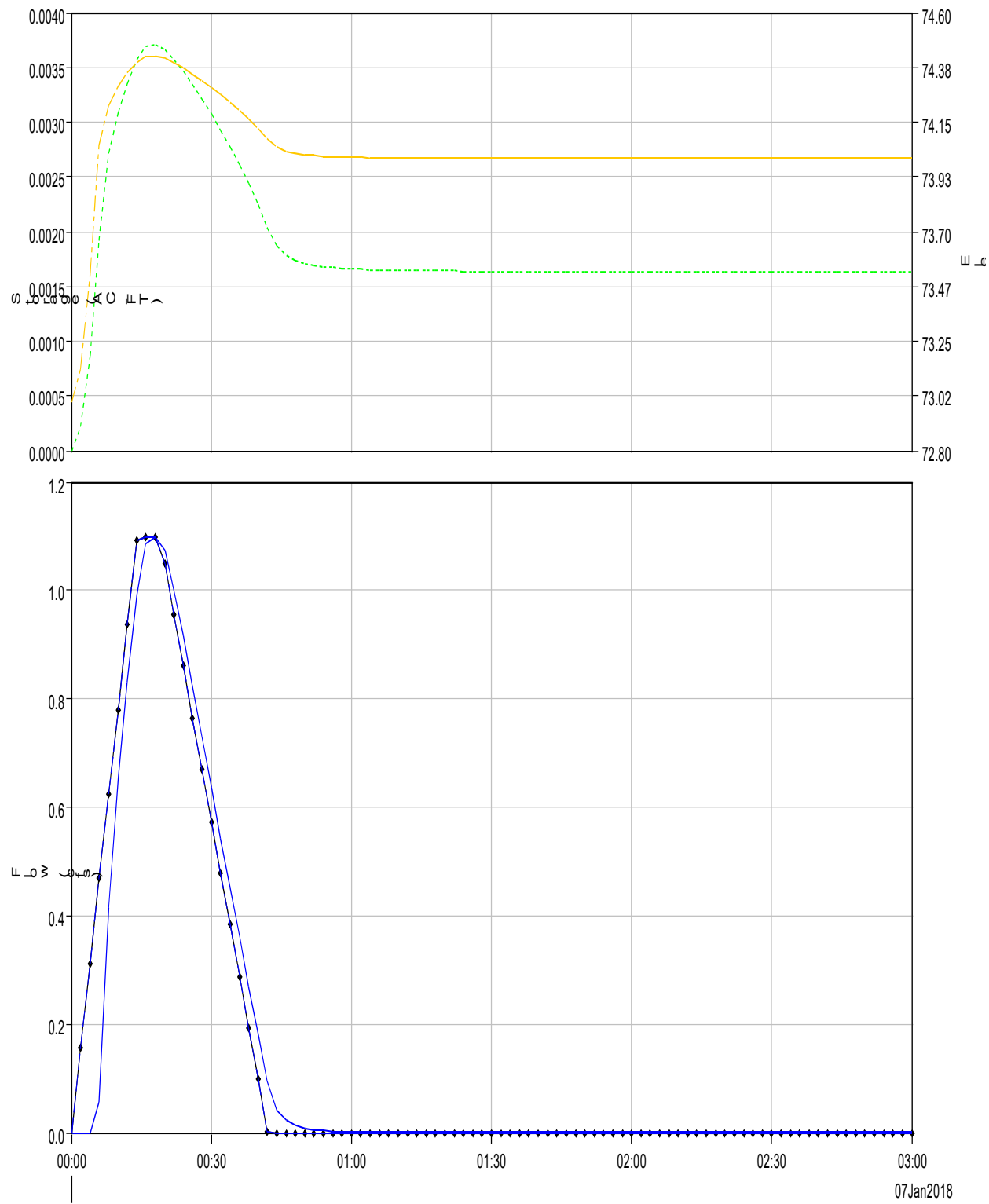
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
10Apr2018	00:00	0.0	0.0	79.0	0.0
10Apr2018	00:02	0.1	0.0	79.1	0.0
10Apr2018	00:04	0.1	0.0	79.4	0.0
10Apr2018	00:06	0.2	0.0	79.9	0.0
10Apr2018	00:08	0.3	0.0	80.1	0.2
10Apr2018	00:10	0.3	0.0	80.2	0.3
10Apr2018	00:12	0.4	0.0	80.2	0.4
10Apr2018	00:14	0.4	0.0	80.2	0.4
10Apr2018	00:16	0.4	0.0	80.2	0.4
10Apr2018	00:18	0.4	0.0	80.2	0.4
10Apr2018	00:20	0.4	0.0	80.2	0.4
10Apr2018	00:22	0.4	0.0	80.2	0.4
10Apr2018	00:24	0.4	0.0	80.2	0.4
10Apr2018	00:26	0.4	0.0	80.2	0.4
10Apr2018	00:28	0.3	0.0	80.2	0.3
10Apr2018	00:30	0.3	0.0	80.2	0.3
10Apr2018	00:32	0.2	0.0	80.1	0.2
10Apr2018	00:34	0.2	0.0	80.1	0.2
10Apr2018	00:36	0.1	0.0	80.1	0.1
10Apr2018	00:38	0.1	0.0	80.1	0.1
10Apr2018	00:40	0.0	0.0	80.1	0.0
10Apr2018	00:42	0.0	0.0	80.1	0.0
10Apr2018	00:44	0.0	0.0	80.1	0.0
10Apr2018	00:46	0.0	0.0	80.1	0.0
10Apr2018	00:48	0.0	0.0	80.1	0.0
10Apr2018	00:50	0.0	0.0	80.1	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
10Apr2018	00:52	0.0	0.0	80.1	0.0
10Apr2018	00:54	0.0	0.0	80.1	0.0
10Apr2018	00:56	0.0	0.0	80.1	0.0
10Apr2018	00:58	0.0	0.0	80.1	0.0
10Apr2018	01:00	0.0	0.0	80.1	0.0
10Apr2018	01:02	0.0	0.0	80.1	0.0
10Apr2018	01:04	0.0	0.0	80.1	0.0
10Apr2018	01:06	0.0	0.0	80.1	0.0
10Apr2018	01:08	0.0	0.0	80.1	0.0
10Apr2018	01:10	0.0	0.0	80.1	0.0
10Apr2018	01:12	0.0	0.0	80.1	0.0
10Apr2018	01:14	0.0	0.0	80.1	0.0
10Apr2018	01:16	0.0	0.0	80.1	0.0
10Apr2018	01:18	0.0	0.0	80.1	0.0
10Apr2018	01:20	0.0	0.0	80.1	0.0
10Apr2018	01:22	0.0	0.0	80.1	0.0
10Apr2018	01:24	0.0	0.0	80.1	0.0
10Apr2018	01:26	0.0	0.0	80.1	0.0
10Apr2018	01:28	0.0	0.0	80.1	0.0
10Apr2018	01:30	0.0	0.0	80.1	0.0
10Apr2018	01:32	0.0	0.0	80.1	0.0
10Apr2018	01:34	0.0	0.0	80.1	0.0
10Apr2018	01:36	0.0	0.0	80.1	0.0
10Apr2018	01:38	0.0	0.0	80.1	0.0
10Apr2018	01:40	0.0	0.0	80.1	0.0
10Apr2018	01:42	0.0	0.0	80.1	0.0
10Apr2018	01:44	0.0	0.0	80.1	0.0
10Apr2018	01:46	0.0	0.0	80.1	0.0
10Apr2018	01:48	0.0	0.0	80.1	0.0
10Apr2018	01:50	0.0	0.0	80.1	0.0
10Apr2018	01:52	0.0	0.0	80.1	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
10Apr2018	01:54	0.0	0.0	80.1	0.0
10Apr2018	01:56	0.0	0.0	80.1	0.0
10Apr2018	01:58	0.0	0.0	80.1	0.0
10Apr2018	02:00	0.0	0.0	80.1	0.0
10Apr2018	02:02	0.0	0.0	80.1	0.0
10Apr2018	02:04	0.0	0.0	80.1	0.0
10Apr2018	02:06	0.0	0.0	80.1	0.0
10Apr2018	02:08	0.0	0.0	80.1	0.0
10Apr2018	02:10	0.0	0.0	80.1	0.0
10Apr2018	02:12	0.0	0.0	80.1	0.0
10Apr2018	02:14	0.0	0.0	80.1	0.0
10Apr2018	02:16	0.0	0.0	80.1	0.0
10Apr2018	02:18	0.0	0.0	80.1	0.0
10Apr2018	02:20	0.0	0.0	80.1	0.0
10Apr2018	02:22	0.0	0.0	80.1	0.0
10Apr2018	02:24	0.0	0.0	80.1	0.0
10Apr2018	02:26	0.0	0.0	80.1	0.0
10Apr2018	02:28	0.0	0.0	80.1	0.0
10Apr2018	02:30	0.0	0.0	80.1	0.0
10Apr2018	02:32	0.0	0.0	80.1	0.0
10Apr2018	02:34	0.0	0.0	80.1	0.0
10Apr2018	02:36	0.0	0.0	80.1	0.0
10Apr2018	02:38	0.0	0.0	80.1	0.0
10Apr2018	02:40	0.0	0.0	80.1	0.0
10Apr2018	02:42	0.0	0.0	80.1	0.0
10Apr2018	02:44	0.0	0.0	80.1	0.0
10Apr2018	02:46	0.0	0.0	80.1	0.0
10Apr2018	02:48	0.0	0.0	80.1	0.0
10Apr2018	02:50	0.0	0.0	80.1	0.0
10Apr2018	02:52	0.0	0.0	80.1	0.0
10Apr2018	02:54	0.0	0.0	80.1	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
10Apr2018	02:56	0.0	0.0	80.1	0.0
10Apr2018	02:58	0.0	0.0	80.1	0.0
10Apr2018	03:00	0.0	0.0	80.1	0.0

Reservoir "PWS6 Basin" Results for Run "Run 1"



Project: Generations - 6, 7, 8 Simulation Run: Run 1
Reservoir: PWS6 Basin

Start of Run:	07Jan2018, 00:00	Basin Model:	EWS1
End of Run:	07Jan2018, 03:00	Meteorologic Model:	Met 1
Compute Time:	11Apr2018, 16:06:31	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Inflow:	1.1 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:16
Peak Discharge:	1.1 (CFS)	Date/Time of Peak Discharge:	07Jan2018, 00:18
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume:	n/a	Peak Elevation:	74.4 (FT)

Observed Hydrograph at Gage PWS6

Peak Discharge:	1.1 (CFS)	Date/Time of Peak Discharge:	07Jan2018, 00:16
Mean Abs Error:	0.0 (CFS)	RMS Error:	0.1 (CFS)
Volume:	(IN)	Volume Residual:	(IN)
Nash-Sutcliffe:	0.950		

Project: Generations - 6, 7, 8 Simulation Run: Run 1
Reservoir: PWS6 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: 11Apr2018, 16:06:31 Control Specifications: Control 1

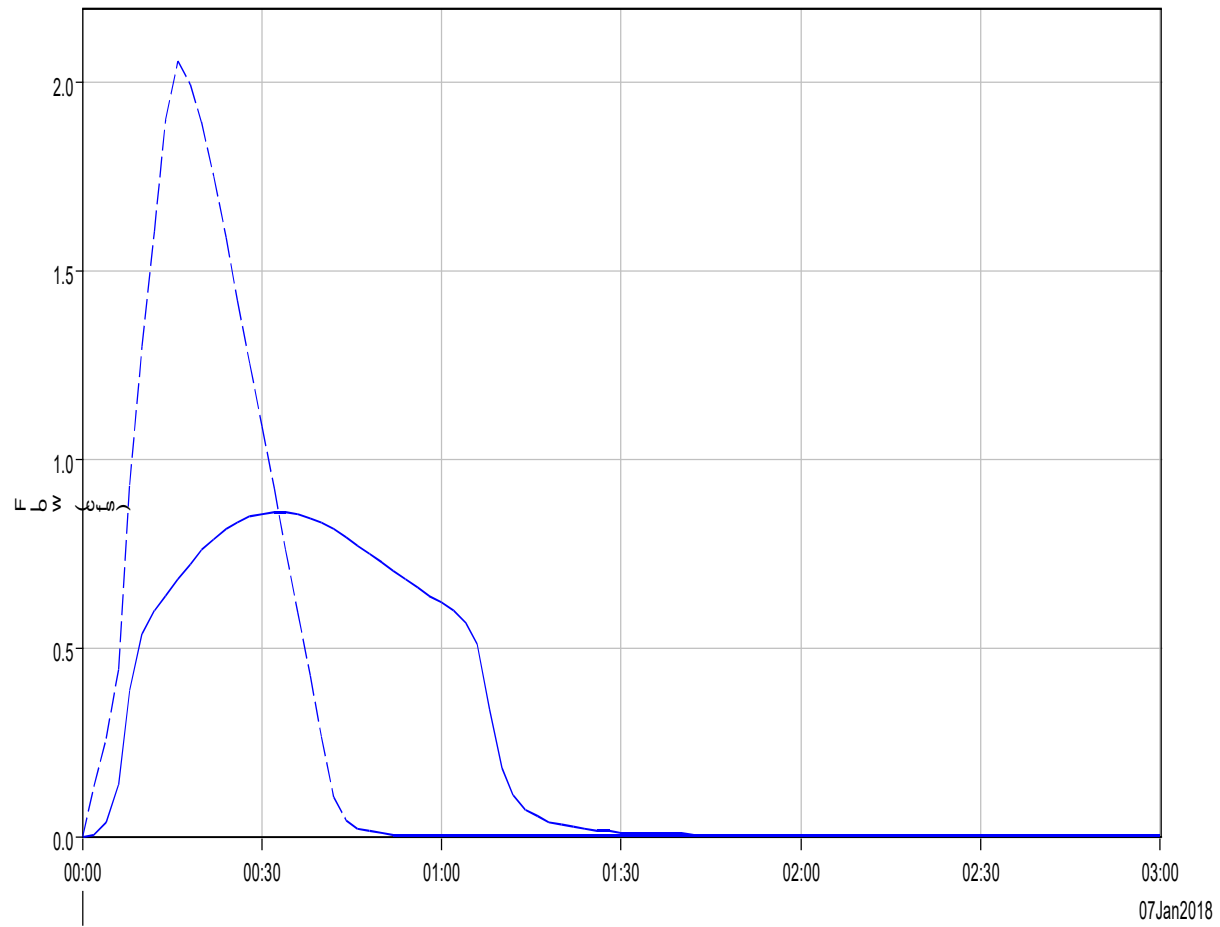
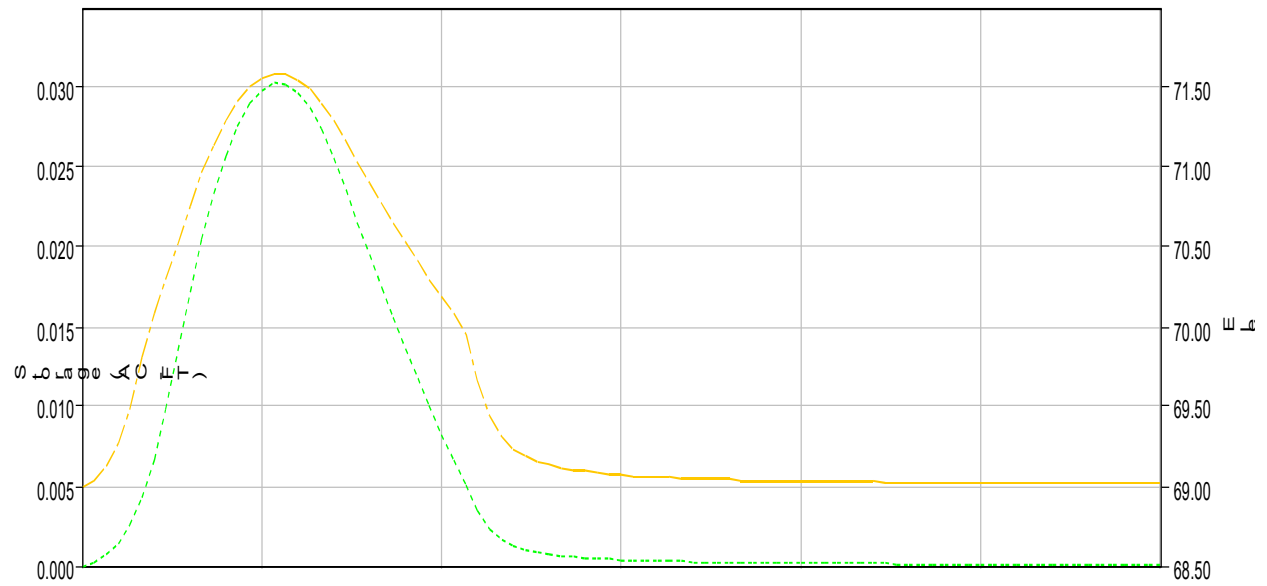
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:00	0.0	0.0	73.0	0.0	0.0
07Jan2018	00:02	0.2	0.0	73.1	0.0	0.2
07Jan2018	00:04	0.3	0.0	73.5	0.0	0.3
07Jan2018	00:06	0.5	0.0	74.1	0.1	0.5
07Jan2018	00:08	0.6	0.0	74.2	0.4	0.6
07Jan2018	00:10	0.8	0.0	74.3	0.7	0.8
07Jan2018	00:12	0.9	0.0	74.4	0.8	0.9
07Jan2018	00:14	1.1	0.0	74.4	1.0	1.1
07Jan2018	00:16	1.1	0.0	74.4	1.1	1.1
07Jan2018	00:18	1.1	0.0	74.4	1.1	1.1
07Jan2018	00:20	1.1	0.0	74.4	1.1	1.1
07Jan2018	00:22	1.0	0.0	74.4	1.0	1.0
07Jan2018	00:24	0.9	0.0	74.4	0.9	0.9
07Jan2018	00:26	0.8	0.0	74.3	0.8	0.8
07Jan2018	00:28	0.7	0.0	74.3	0.7	0.7
07Jan2018	00:30	0.6	0.0	74.3	0.6	0.6
07Jan2018	00:32	0.5	0.0	74.3	0.5	0.5
07Jan2018	00:34	0.4	0.0	74.2	0.5	0.4
07Jan2018	00:36	0.3	0.0	74.2	0.4	0.3
07Jan2018	00:38	0.2	0.0	74.2	0.3	0.2
07Jan2018	00:40	0.1	0.0	74.1	0.2	0.1
07Jan2018	00:42	0.0	0.0	74.1	0.1	0.0
07Jan2018	00:44	0.0	0.0	74.0	0.0	0.0
07Jan2018	00:46	0.0	0.0	74.0	0.0	0.0
07Jan2018	00:48	0.0	0.0	74.0	0.0	0.0
07Jan2018	00:50	0.0	0.0	74.0	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:52	0.0	0.0	74.0	0.0	0.0
07Jan2018	00:54	0.0	0.0	74.0	0.0	0.0
07Jan2018	00:56	0.0	0.0	74.0	0.0	0.0
07Jan2018	00:58	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:00	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:02	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:04	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:06	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:08	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:10	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:12	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:14	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:16	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:18	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:20	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:22	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:24	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:26	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:28	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:30	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:32	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:34	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:36	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:38	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:40	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:42	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:44	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:46	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:48	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:50	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:52	0.0	0.0	74.0	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	01:54	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:56	0.0	0.0	74.0	0.0	0.0
07Jan2018	01:58	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:00	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:02	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:04	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:06	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:08	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:10	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:12	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:14	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:16	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:18	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:20	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:22	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:24	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:26	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:28	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:30	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:32	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:34	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:36	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:38	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:40	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:42	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:44	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:46	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:48	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:50	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:52	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:54	0.0	0.0	74.0	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	02:56	0.0	0.0	74.0	0.0	0.0
07Jan2018	02:58	0.0	0.0	74.0	0.0	0.0
07Jan2018	03:00	0.0	0.0	74.0	0.0	0.0

Reservoir "PWS7 Basin" Results for Run "Run 1"



Run:Run 1 Element:PWS7 Basin Result:Storage Run:Run 1 Element:PWS7 Basin Result:Pool Elevation Run:Run 1 Element:PWS7 Basin Result:Outflow
Run:Run 1 Element:PWS7 Basin Result:Combined Inflow

Project: Generations - 6, 7, 8 Simulation Run: Run 1
Reservoir: PWS7 Basin

Start of Run:	07Jan2018, 00:00	Basin Model:	EWS1
End of Run:	07Jan2018, 03:00	Meteorologic Model:	Met 1
Compute Time:	11Apr2018, 16:06:31	Control Specifications:	Control 1

Volume Units: N

Computed Results

Peak Inflow:	2.1 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:16
Peak Discharge:	0.9 (CFS)	Date/Time of Peak Discharge:	07Jan2018, 00:32
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume:	n/a	Peak Elevation:	71.6 (FT)

Project: Generations - 6, 7, 8 Simulation Run: Run 1
Reservoir: PWS7 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: 11Apr2018, 16:06:31 Control Specifications: Control 1

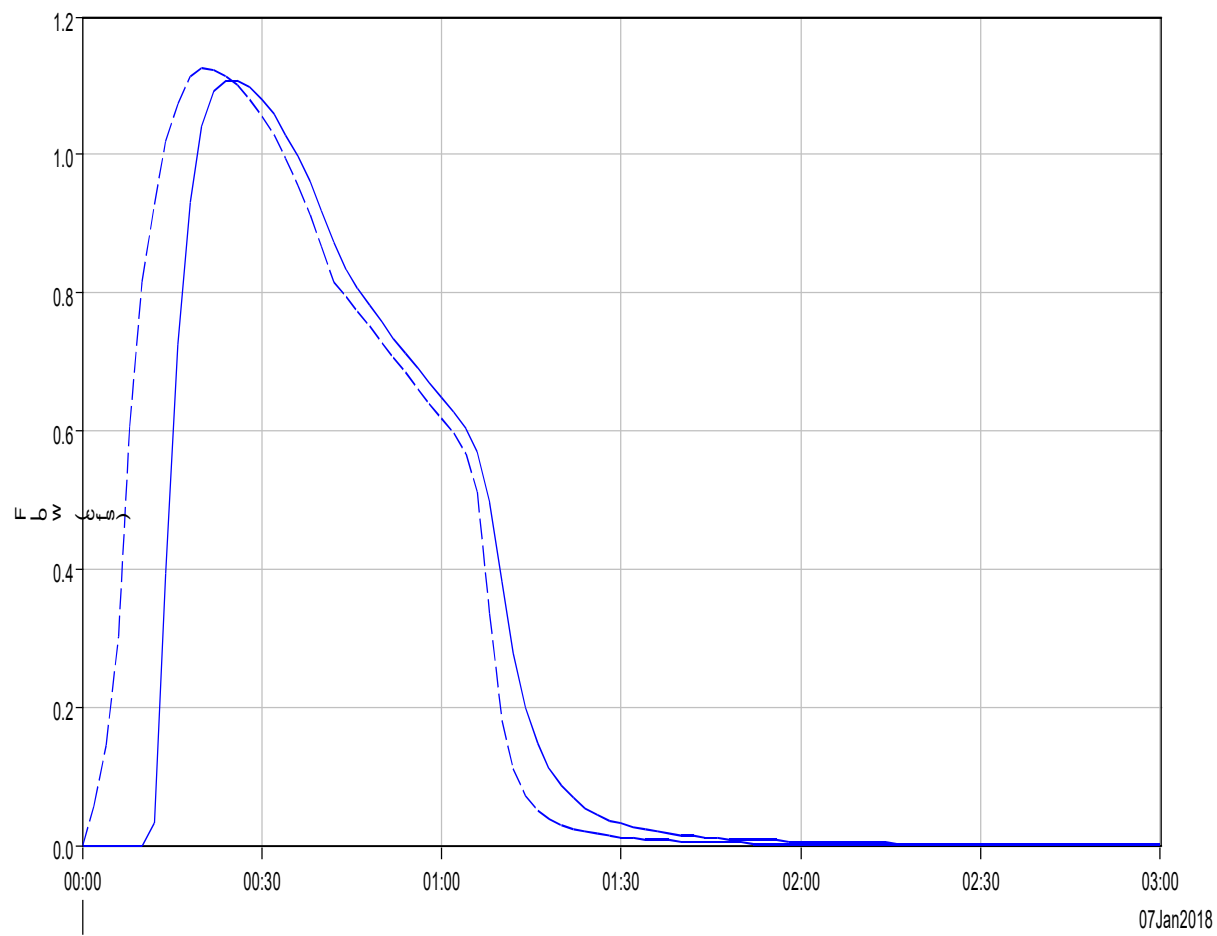
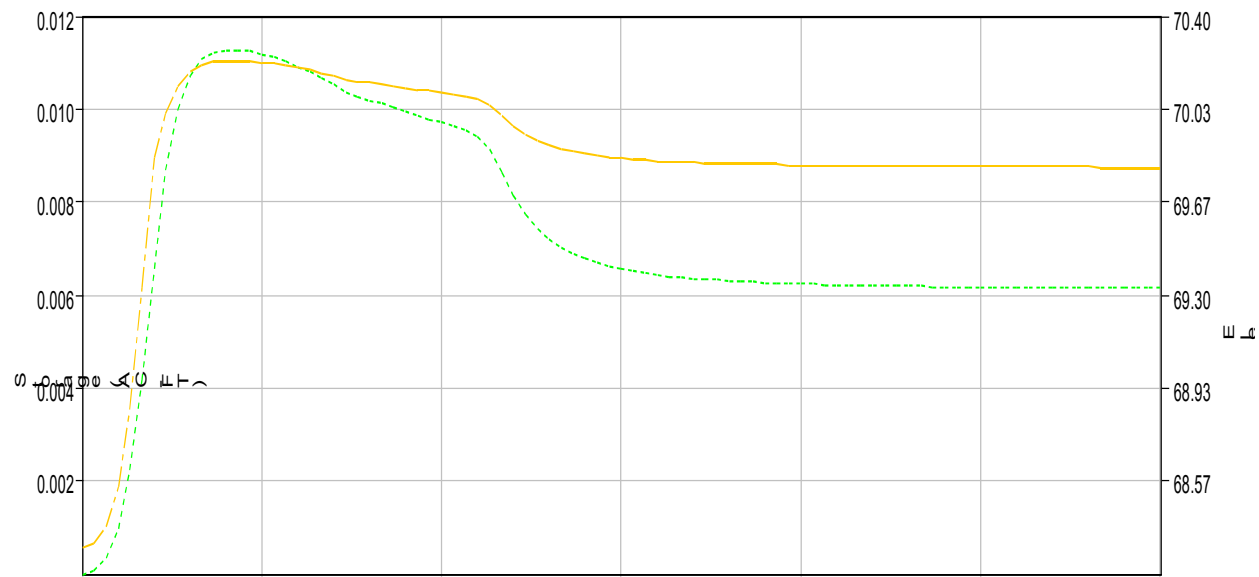
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	00:00	0.0	0.0	69.0	0.0
07Jan2018	00:02	0.1	0.0	69.0	0.0
07Jan2018	00:04	0.3	0.0	69.1	0.0
07Jan2018	00:06	0.4	0.0	69.3	0.1
07Jan2018	00:08	0.9	0.0	69.5	0.4
07Jan2018	00:10	1.3	0.0	69.8	0.5
07Jan2018	00:12	1.6	0.0	70.1	0.6
07Jan2018	00:14	1.9	0.0	70.3	0.6
07Jan2018	00:16	2.1	0.0	70.5	0.7
07Jan2018	00:18	2.0	0.0	70.8	0.7
07Jan2018	00:20	1.9	0.0	71.0	0.8
07Jan2018	00:22	1.7	0.0	71.1	0.8
07Jan2018	00:24	1.6	0.0	71.3	0.8
07Jan2018	00:26	1.4	0.0	71.4	0.8
07Jan2018	00:28	1.3	0.0	71.5	0.8
07Jan2018	00:30	1.1	0.0	71.6	0.9
07Jan2018	00:32	0.9	0.0	71.6	0.9
07Jan2018	00:34	0.8	0.0	71.6	0.9
07Jan2018	00:36	0.6	0.0	71.5	0.9
07Jan2018	00:38	0.4	0.0	71.5	0.8
07Jan2018	00:40	0.3	0.0	71.4	0.8
07Jan2018	00:42	0.1	0.0	71.3	0.8
07Jan2018	00:44	0.0	0.0	71.2	0.8
07Jan2018	00:46	0.0	0.0	71.0	0.8
07Jan2018	00:48	0.0	0.0	70.9	0.8
07Jan2018	00:50	0.0	0.0	70.8	0.7

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	00:52	0.0	0.0	70.7	0.7
07Jan2018	00:54	0.0	0.0	70.5	0.7
07Jan2018	00:56	0.0	0.0	70.4	0.7
07Jan2018	00:58	0.0	0.0	70.3	0.6
07Jan2018	01:00	0.0	0.0	70.2	0.6
07Jan2018	01:02	0.0	0.0	70.1	0.6
07Jan2018	01:04	0.0	0.0	70.0	0.6
07Jan2018	01:06	0.0	0.0	69.7	0.5
07Jan2018	01:08	0.0	0.0	69.4	0.3
07Jan2018	01:10	0.0	0.0	69.3	0.2
07Jan2018	01:12	0.0	0.0	69.2	0.1
07Jan2018	01:14	0.0	0.0	69.2	0.1
07Jan2018	01:16	0.0	0.0	69.2	0.1
07Jan2018	01:18	0.0	0.0	69.1	0.0
07Jan2018	01:20	0.0	0.0	69.1	0.0
07Jan2018	01:22	0.0	0.0	69.1	0.0
07Jan2018	01:24	0.0	0.0	69.1	0.0
07Jan2018	01:26	0.0	0.0	69.1	0.0
07Jan2018	01:28	0.0	0.0	69.1	0.0
07Jan2018	01:30	0.0	0.0	69.1	0.0
07Jan2018	01:32	0.0	0.0	69.1	0.0
07Jan2018	01:34	0.0	0.0	69.1	0.0
07Jan2018	01:36	0.0	0.0	69.1	0.0
07Jan2018	01:38	0.0	0.0	69.1	0.0
07Jan2018	01:40	0.0	0.0	69.1	0.0
07Jan2018	01:42	0.0	0.0	69.0	0.0
07Jan2018	01:44	0.0	0.0	69.0	0.0
07Jan2018	01:46	0.0	0.0	69.0	0.0
07Jan2018	01:48	0.0	0.0	69.0	0.0
07Jan2018	01:50	0.0	0.0	69.0	0.0
07Jan2018	01:52	0.0	0.0	69.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	01:54	0.0	0.0	69.0	0.0
07Jan2018	01:56	0.0	0.0	69.0	0.0
07Jan2018	01:58	0.0	0.0	69.0	0.0
07Jan2018	02:00	0.0	0.0	69.0	0.0
07Jan2018	02:02	0.0	0.0	69.0	0.0
07Jan2018	02:04	0.0	0.0	69.0	0.0
07Jan2018	02:06	0.0	0.0	69.0	0.0
07Jan2018	02:08	0.0	0.0	69.0	0.0
07Jan2018	02:10	0.0	0.0	69.0	0.0
07Jan2018	02:12	0.0	0.0	69.0	0.0
07Jan2018	02:14	0.0	0.0	69.0	0.0
07Jan2018	02:16	0.0	0.0	69.0	0.0
07Jan2018	02:18	0.0	0.0	69.0	0.0
07Jan2018	02:20	0.0	0.0	69.0	0.0
07Jan2018	02:22	0.0	0.0	69.0	0.0
07Jan2018	02:24	0.0	0.0	69.0	0.0
07Jan2018	02:26	0.0	0.0	69.0	0.0
07Jan2018	02:28	0.0	0.0	69.0	0.0
07Jan2018	02:30	0.0	0.0	69.0	0.0
07Jan2018	02:32	0.0	0.0	69.0	0.0
07Jan2018	02:34	0.0	0.0	69.0	0.0
07Jan2018	02:36	0.0	0.0	69.0	0.0
07Jan2018	02:38	0.0	0.0	69.0	0.0
07Jan2018	02:40	0.0	0.0	69.0	0.0
07Jan2018	02:42	0.0	0.0	69.0	0.0
07Jan2018	02:44	0.0	0.0	69.0	0.0
07Jan2018	02:46	0.0	0.0	69.0	0.0
07Jan2018	02:48	0.0	0.0	69.0	0.0
07Jan2018	02:50	0.0	0.0	69.0	0.0
07Jan2018	02:52	0.0	0.0	69.0	0.0
07Jan2018	02:54	0.0	0.0	69.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	02:56	0.0	0.0	69.0	0.0
07Jan2018	02:58	0.0	0.0	69.0	0.0
07Jan2018	03:00	0.0	0.0	69.0	0.0

Reservoir "PWS8 Basin" Results for Run "Run 1"



Run:Run 1 Element:PWS8 Basin Result:Storage Run:Run 1 Element:PWS8 Basin Result:Pool Elevation Run:Run 1 Element:PWS8 Basin Result:Outflow
Run:Run 1 Element:PWS8 Basin Result:Combined Inflow

Project: Generations - 6, 7, 8 Simulation Run: Run 1
Reservoir: PWS8 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: 11Apr2018, 16:06:31 Control Specifications: Control 1

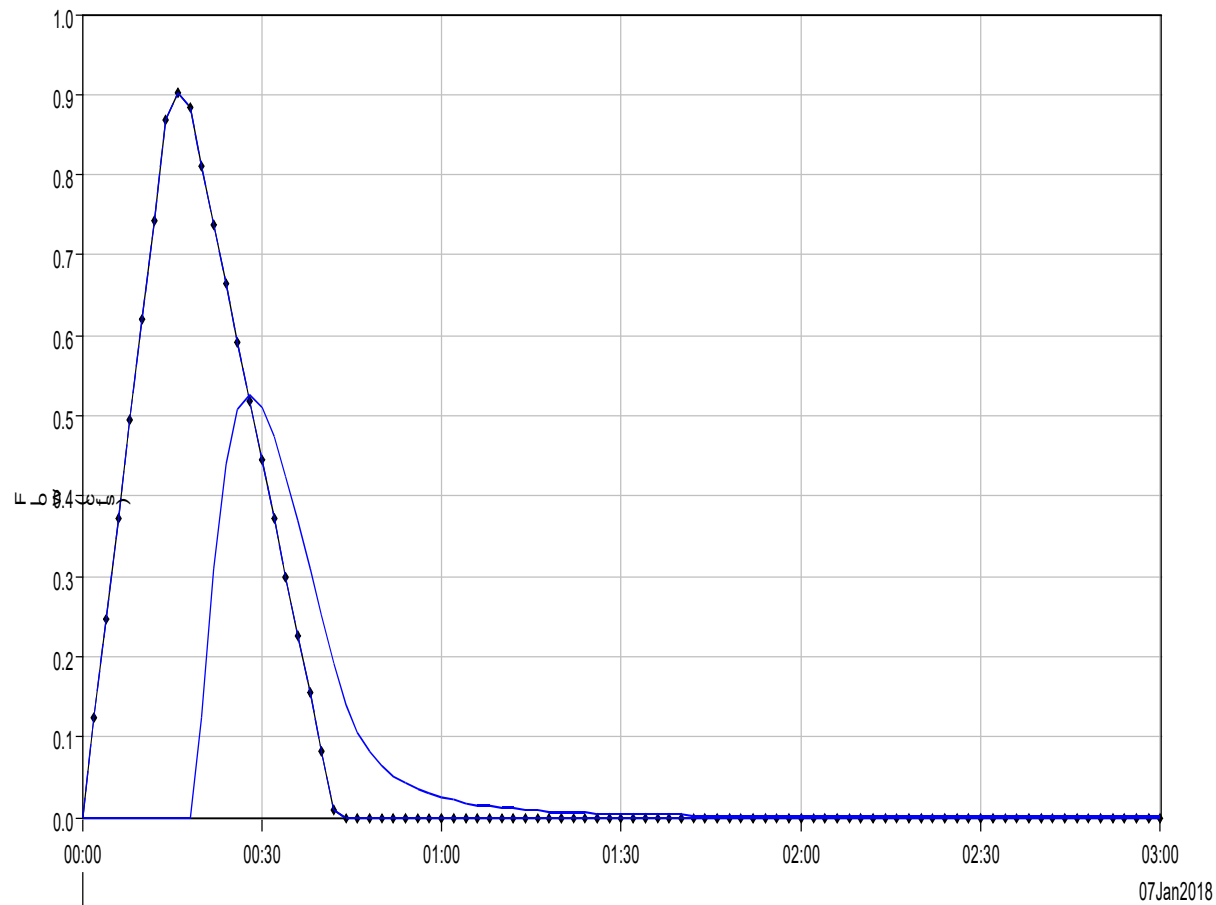
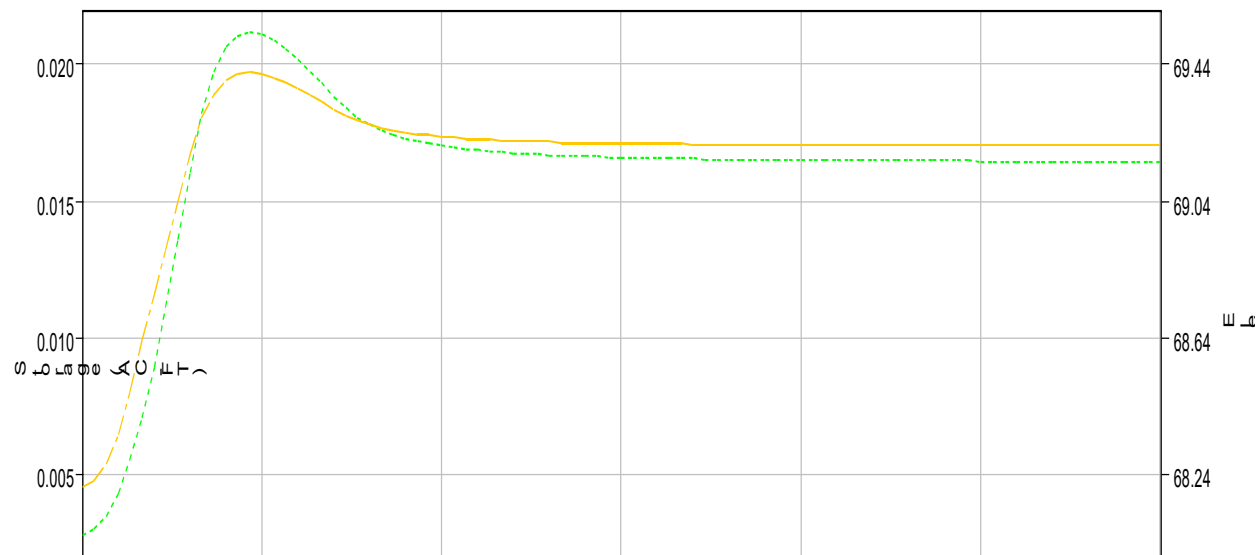
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	00:00	0.0	0.0	68.3	0.0
07Jan2018	00:02	0.1	0.0	68.3	0.0
07Jan2018	00:04	0.1	0.0	68.4	0.0
07Jan2018	00:06	0.3	0.0	68.5	0.0
07Jan2018	00:08	0.6	0.0	68.8	0.0
07Jan2018	00:10	0.8	0.0	69.3	0.0
07Jan2018	00:12	0.9	0.0	69.8	0.0
07Jan2018	00:14	1.0	0.0	70.0	0.4
07Jan2018	00:16	1.1	0.0	70.1	0.7
07Jan2018	00:18	1.1	0.0	70.2	0.9
07Jan2018	00:20	1.1	0.0	70.2	1.0
07Jan2018	00:22	1.1	0.0	70.2	1.1
07Jan2018	00:24	1.1	0.0	70.2	1.1
07Jan2018	00:26	1.1	0.0	70.2	1.1
07Jan2018	00:28	1.1	0.0	70.2	1.1
07Jan2018	00:30	1.1	0.0	70.2	1.1
07Jan2018	00:32	1.0	0.0	70.2	1.1
07Jan2018	00:34	1.0	0.0	70.2	1.0
07Jan2018	00:36	1.0	0.0	70.2	1.0
07Jan2018	00:38	0.9	0.0	70.2	1.0
07Jan2018	00:40	0.9	0.0	70.2	0.9
07Jan2018	00:42	0.8	0.0	70.2	0.9
07Jan2018	00:44	0.8	0.0	70.2	0.8
07Jan2018	00:46	0.8	0.0	70.1	0.8
07Jan2018	00:48	0.8	0.0	70.1	0.8
07Jan2018	00:50	0.7	0.0	70.1	0.8

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	00:52	0.7	0.0	70.1	0.7
07Jan2018	00:54	0.7	0.0	70.1	0.7
07Jan2018	00:56	0.7	0.0	70.1	0.7
07Jan2018	00:58	0.6	0.0	70.1	0.7
07Jan2018	01:00	0.6	0.0	70.1	0.6
07Jan2018	01:02	0.6	0.0	70.1	0.6
07Jan2018	01:04	0.6	0.0	70.1	0.6
07Jan2018	01:06	0.5	0.0	70.1	0.6
07Jan2018	01:08	0.3	0.0	70.0	0.5
07Jan2018	01:10	0.2	0.0	70.0	0.4
07Jan2018	01:12	0.1	0.0	70.0	0.3
07Jan2018	01:14	0.1	0.0	69.9	0.2
07Jan2018	01:16	0.1	0.0	69.9	0.1
07Jan2018	01:18	0.0	0.0	69.9	0.1
07Jan2018	01:20	0.0	0.0	69.9	0.1
07Jan2018	01:22	0.0	0.0	69.9	0.1
07Jan2018	01:24	0.0	0.0	69.9	0.1
07Jan2018	01:26	0.0	0.0	69.8	0.0
07Jan2018	01:28	0.0	0.0	69.8	0.0
07Jan2018	01:30	0.0	0.0	69.8	0.0
07Jan2018	01:32	0.0	0.0	69.8	0.0
07Jan2018	01:34	0.0	0.0	69.8	0.0
07Jan2018	01:36	0.0	0.0	69.8	0.0
07Jan2018	01:38	0.0	0.0	69.8	0.0
07Jan2018	01:40	0.0	0.0	69.8	0.0
07Jan2018	01:42	0.0	0.0	69.8	0.0
07Jan2018	01:44	0.0	0.0	69.8	0.0
07Jan2018	01:46	0.0	0.0	69.8	0.0
07Jan2018	01:48	0.0	0.0	69.8	0.0
07Jan2018	01:50	0.0	0.0	69.8	0.0
07Jan2018	01:52	0.0	0.0	69.8	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	01:54	0.0	0.0	69.8	0.0
07Jan2018	01:56	0.0	0.0	69.8	0.0
07Jan2018	01:58	0.0	0.0	69.8	0.0
07Jan2018	02:00	0.0	0.0	69.8	0.0
07Jan2018	02:02	0.0	0.0	69.8	0.0
07Jan2018	02:04	0.0	0.0	69.8	0.0
07Jan2018	02:06	0.0	0.0	69.8	0.0
07Jan2018	02:08	0.0	0.0	69.8	0.0
07Jan2018	02:10	0.0	0.0	69.8	0.0
07Jan2018	02:12	0.0	0.0	69.8	0.0
07Jan2018	02:14	0.0	0.0	69.8	0.0
07Jan2018	02:16	0.0	0.0	69.8	0.0
07Jan2018	02:18	0.0	0.0	69.8	0.0
07Jan2018	02:20	0.0	0.0	69.8	0.0
07Jan2018	02:22	0.0	0.0	69.8	0.0
07Jan2018	02:24	0.0	0.0	69.8	0.0
07Jan2018	02:26	0.0	0.0	69.8	0.0
07Jan2018	02:28	0.0	0.0	69.8	0.0
07Jan2018	02:30	0.0	0.0	69.8	0.0
07Jan2018	02:32	0.0	0.0	69.8	0.0
07Jan2018	02:34	0.0	0.0	69.8	0.0
07Jan2018	02:36	0.0	0.0	69.8	0.0
07Jan2018	02:38	0.0	0.0	69.8	0.0
07Jan2018	02:40	0.0	0.0	69.8	0.0
07Jan2018	02:42	0.0	0.0	69.8	0.0
07Jan2018	02:44	0.0	0.0	69.8	0.0
07Jan2018	02:46	0.0	0.0	69.8	0.0
07Jan2018	02:48	0.0	0.0	69.8	0.0
07Jan2018	02:50	0.0	0.0	69.8	0.0
07Jan2018	02:52	0.0	0.0	69.8	0.0
07Jan2018	02:54	0.0	0.0	69.8	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	02:56	0.0	0.0	69.8	0.0
07Jan2018	02:58	0.0	0.0	69.8	0.0
07Jan2018	03:00	0.0	0.0	69.8	0.0

Reservoir "PWS9 Basin" Results for Run "Run 1"



- Run:Run 1 Element:PWS9 Basin Result:Storage EXPIRED
- Run:Run 1 Element:PWS9 Basin Result:Pool Elevation EXPIRED
- Run:Run 1 Element:PWS9 Basin Result:Observed Flow EXPIRED
- Run:Run 1 Element:PWS9 Basin Result:Outflow EXPIRED
- Run:Run 1 Element:PWS9 Basin Result:Combined Inflow EXPIRED

Project: Generations PWS9 and PWS10 Simulation Run: Run 1
Reservoir: PWS9 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: DATA CHANGED, RECOMPUTE Control Specifications: Control 1

Volume Units: IN

Computed Results

Peak Inflow:	0.9 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:16
Peak Discharge:	0.5 (CFS)	Date/Time of Peak Discharge:	07Jan2018, 00:28
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume:	n/a	Peak Elevation:	69.4 (FT)

Observed Hydrograph at Gage PWS9

Peak Discharge:	0.9 (CFS)	Date/Time of Peak Discharge:	07Jan2018, 00:16
Mean Abs Error:	0.1 (CFS)	RMS Error:	0.2 (CFS)
Volume:	(IN)	Volume Residual:	(IN)
Nash-Sutcliffe:	0.137		

Project: Generations PWS9 and PWS10 Simulation Run: Run 1
 Reservoir: PWS9 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
 End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
 Compute Time: DATA CHANGED, RECOMPUTE Control Specifications:Control 1

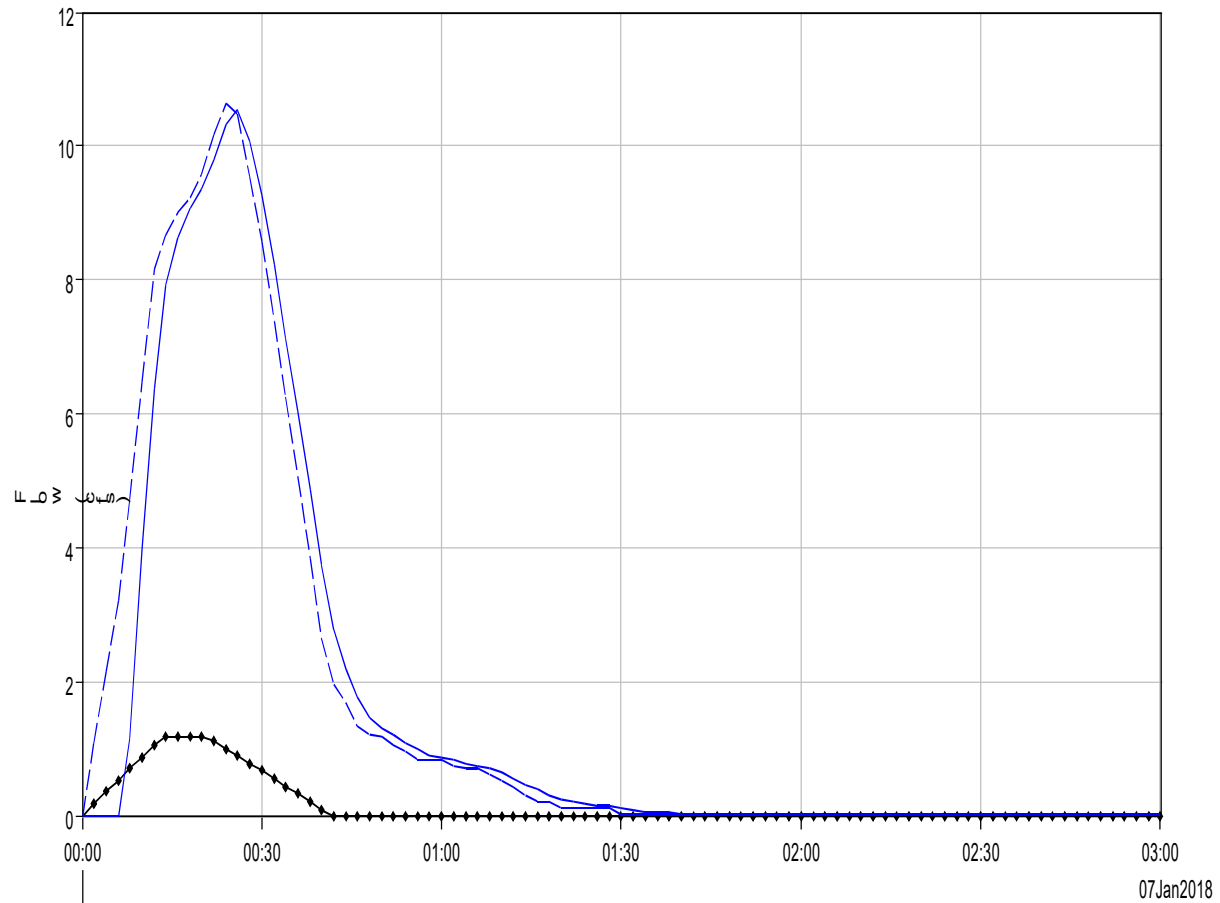
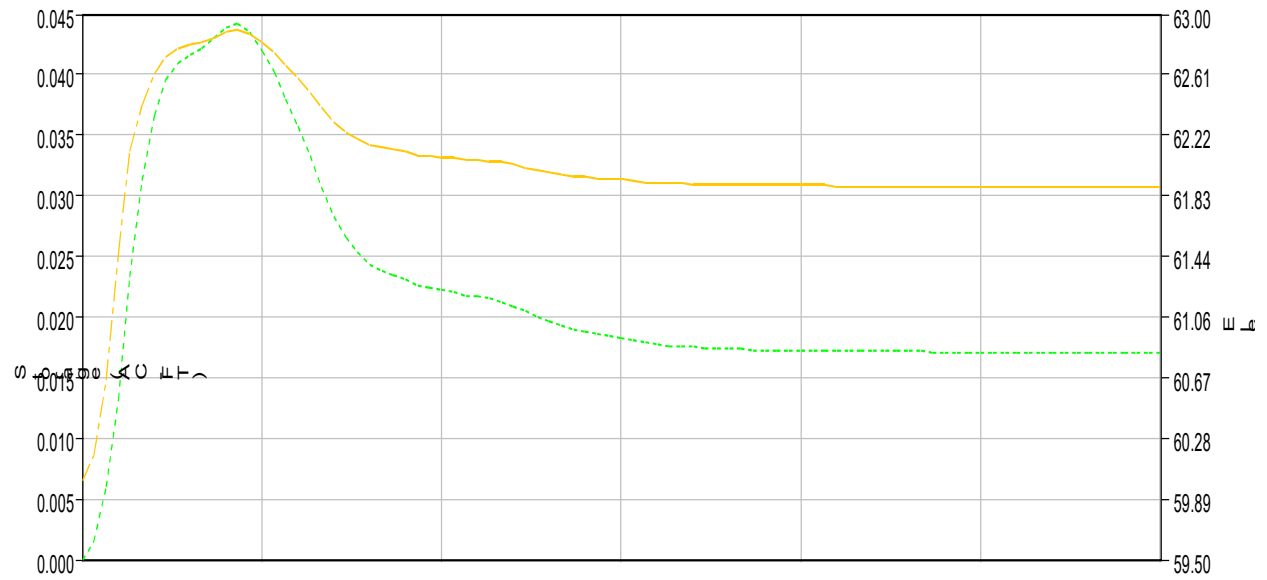
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:00	0.0	0.0	68.2	0.0	0.0
07Jan2018	00:02	0.1	0.0	68.2	0.0	0.1
07Jan2018	00:04	0.2	0.0	68.3	0.0	0.2
07Jan2018	00:06	0.4	0.0	68.4	0.0	0.4
07Jan2018	00:08	0.5	0.0	68.5	0.0	0.5
07Jan2018	00:10	0.6	0.0	68.6	0.0	0.6
07Jan2018	00:12	0.7	0.0	68.8	0.0	0.7
07Jan2018	00:14	0.9	0.0	68.9	0.0	0.9
07Jan2018	00:16	0.9	0.0	69.0	0.0	0.9
07Jan2018	00:18	0.9	0.0	69.2	0.0	0.9
07Jan2018	00:20	0.8	0.0	69.3	0.1	0.8
07Jan2018	00:22	0.7	0.0	69.4	0.3	0.7
07Jan2018	00:24	0.7	0.0	69.4	0.4	0.7
07Jan2018	00:26	0.6	0.0	69.4	0.5	0.6
07Jan2018	00:28	0.5	0.0	69.4	0.5	0.5
07Jan2018	00:30	0.4	0.0	69.4	0.5	0.4
07Jan2018	00:32	0.4	0.0	69.4	0.5	0.4
07Jan2018	00:34	0.3	0.0	69.4	0.4	0.3
07Jan2018	00:36	0.2	0.0	69.4	0.4	0.2
07Jan2018	00:38	0.2	0.0	69.4	0.3	0.2
07Jan2018	00:40	0.1	0.0	69.3	0.3	0.1
07Jan2018	00:42	0.0	0.0	69.3	0.2	0.0
07Jan2018	00:44	0.0	0.0	69.3	0.1	0.0
07Jan2018	00:46	0.0	0.0	69.3	0.1	0.0
07Jan2018	00:48	0.0	0.0	69.3	0.1	0.0
07Jan2018	00:50	0.0	0.0	69.3	0.1	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:52	0.0	0.0	69.2	0.1	0.0
07Jan2018	00:54	0.0	0.0	69.2	0.0	0.0
07Jan2018	00:56	0.0	0.0	69.2	0.0	0.0
07Jan2018	00:58	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:00	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:02	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:04	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:06	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:08	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:10	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:12	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:14	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:16	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:18	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:20	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:22	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:24	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:26	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:28	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:30	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:32	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:34	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:36	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:38	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:40	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:42	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:44	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:46	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:48	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:50	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:52	0.0	0.0	69.2	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	01:54	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:56	0.0	0.0	69.2	0.0	0.0
07Jan2018	01:58	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:00	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:02	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:04	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:06	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:08	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:10	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:12	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:14	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:16	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:18	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:20	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:22	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:24	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:26	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:28	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:30	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:32	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:34	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:36	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:38	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:40	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:42	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:44	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:46	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:48	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:50	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:52	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:54	0.0	0.0	69.2	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	02:56	0.0	0.0	69.2	0.0	0.0
07Jan2018	02:58	0.0	0.0	69.2	0.0	0.0
07Jan2018	03:00	0.0	0.0	69.2	0.0	0.0

Reservoir "PWS10 Basin" Results for Run "Run 1"



- Run:Run 1 Element:PWS10 Basin Result:Storage EXPIRED
- Run:Run 1 Element:PWS10 Basin Result:Pool Elevation EXPIRED
- Run:Run 1 Element:PWS10 Basin Result:Observed Flow EXPIRED
- Run:Run 1 Element:PWS10 Basin Result:Outflow EXPIRED
- Run:Run 1 Element:PWS10 Basin Result:Combined Inflow EXPIRED

Project: Generations PWS9 and PWS10 Simulation Run: Run 1
Reservoir: PWS10 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: DATA CHANGED, RECOMPUTE Control Specifications: Control 1

Volume Units:IN

Computed Results

Peak Inflow:	10.7 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:24
Peak Discharge:	10.5 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:26
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume	n/a	Peak Elevation:	62.9 (FT)

Observed Hydrograph at Gage PWS10

Peak Discharge:	1.2 (CFS)	Date/Time of Peak Discharge	07Jan2018, 00:14
Mean Abs Error:	1.5 (CFS)	RMS Error:	3.1 (CFS)
Volume:	(IN)	Volume Residual:	(IN)
Nash-Sutcliffe:	-82.636		

Project: Generations PWS9 and PWS10 Simulation Run: Run 1
 Reservoir: PWS10 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
 End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
 Compute Time: DATA CHANGED, RECOMPUTE Control Specifications:Control 1

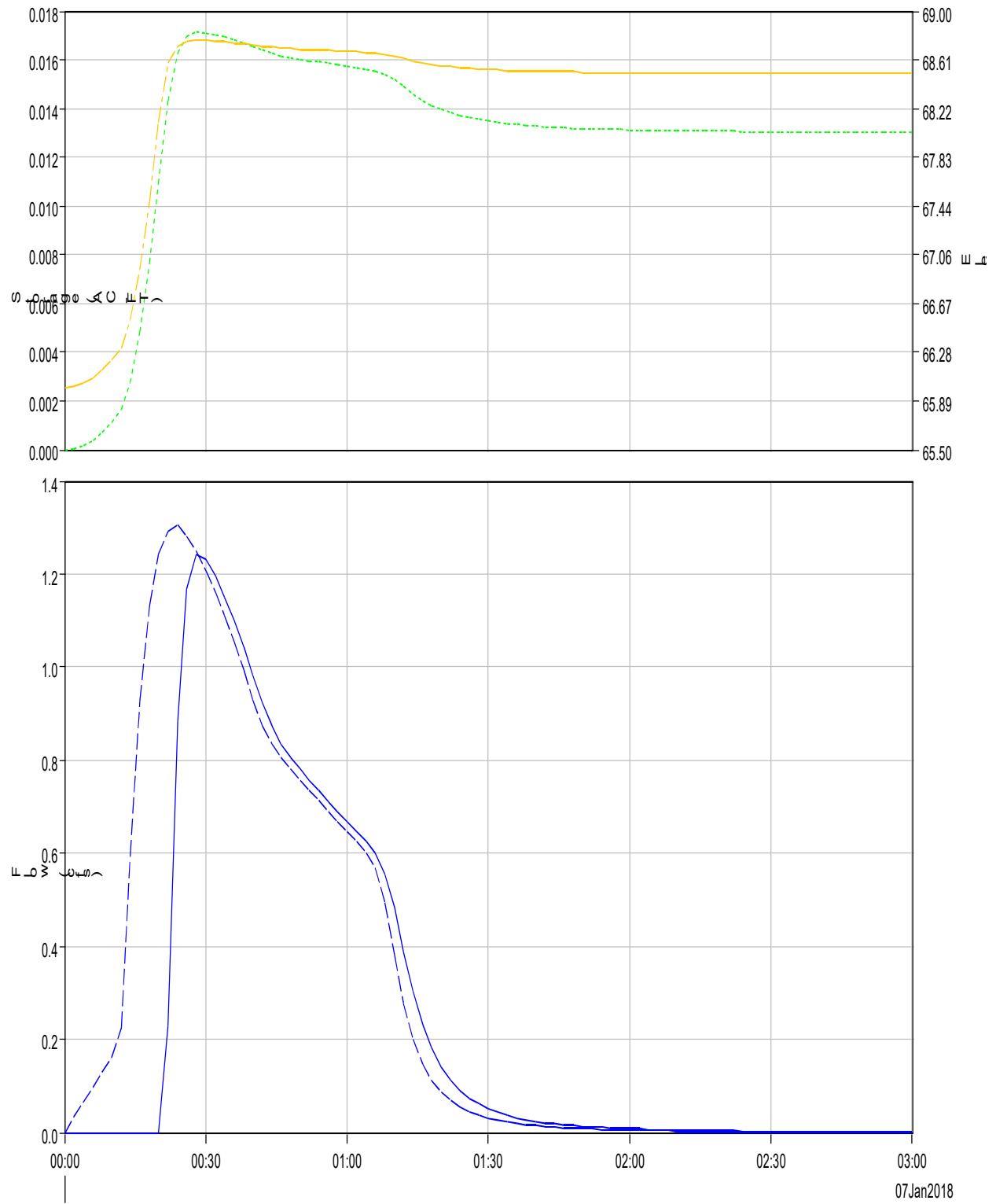
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:00	0.0	0.0	60.0	0.0	0.0
07Jan2018	00:02	1.1	0.0	60.2	0.0	0.2
07Jan2018	00:04	2.1	0.0	60.7	0.0	0.3
07Jan2018	00:06	3.2	0.0	61.5	0.0	0.5
07Jan2018	00:08	4.7	0.0	62.1	1.2	0.7
07Jan2018	00:10	6.5	0.0	62.4	4.0	0.9
07Jan2018	00:12	8.2	0.0	62.6	6.4	1.0
07Jan2018	00:14	8.7	0.0	62.7	7.9	1.2
07Jan2018	00:16	9.0	0.0	62.8	8.6	1.2
07Jan2018	00:18	9.2	0.0	62.8	9.1	1.2
07Jan2018	00:20	9.6	0.0	62.8	9.4	1.2
07Jan2018	00:22	10.2	0.0	62.9	9.8	1.1
07Jan2018	00:24	10.7	0.0	62.9	10.3	1.0
07Jan2018	00:26	10.5	0.0	62.9	10.5	0.9
07Jan2018	00:28	9.5	0.0	62.9	10.1	0.8
07Jan2018	00:30	8.6	0.0	62.8	9.2	0.7
07Jan2018	00:32	7.4	0.0	62.7	8.2	0.5
07Jan2018	00:34	6.3	0.0	62.7	7.1	0.4
07Jan2018	00:36	5.1	0.0	62.6	6.0	0.3
07Jan2018	00:38	3.8	0.0	62.5	4.9	0.2
07Jan2018	00:40	2.6	0.0	62.4	3.7	0.1
07Jan2018	00:42	1.9	0.0	62.3	2.8	0.0
07Jan2018	00:44	1.7	0.0	62.2	2.2	0.0
07Jan2018	00:46	1.3	0.0	62.2	1.8	0.0
07Jan2018	00:48	1.2	0.0	62.2	1.5	0.0
07Jan2018	00:50	1.2	0.0	62.1	1.3	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	00:52	1.1	0.0	62.1	1.2	0.0
07Jan2018	00:54	0.9	0.0	62.1	1.1	0.0
07Jan2018	00:56	0.8	0.0	62.1	1.0	0.0
07Jan2018	00:58	0.8	0.0	62.1	0.9	0.0
07Jan2018	01:00	0.8	0.0	62.1	0.9	0.0
07Jan2018	01:02	0.7	0.0	62.1	0.8	0.0
07Jan2018	01:04	0.7	0.0	62.1	0.8	0.0
07Jan2018	01:06	0.7	0.0	62.1	0.7	0.0
07Jan2018	01:08	0.6	0.0	62.1	0.7	0.0
07Jan2018	01:10	0.5	0.0	62.0	0.6	0.0
07Jan2018	01:12	0.4	0.0	62.0	0.6	0.0
07Jan2018	01:14	0.3	0.0	62.0	0.5	0.0
07Jan2018	01:16	0.2	0.0	62.0	0.4	0.0
07Jan2018	01:18	0.2	0.0	62.0	0.3	0.0
07Jan2018	01:20	0.1	0.0	62.0	0.3	0.0
07Jan2018	01:22	0.1	0.0	62.0	0.2	0.0
07Jan2018	01:24	0.1	0.0	62.0	0.2	0.0
07Jan2018	01:26	0.1	0.0	61.9	0.1	0.0
07Jan2018	01:28	0.1	0.0	61.9	0.1	0.0
07Jan2018	01:30	0.0	0.0	61.9	0.1	0.0
07Jan2018	01:32	0.0	0.0	61.9	0.1	0.0
07Jan2018	01:34	0.0	0.0	61.9	0.1	0.0
07Jan2018	01:36	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:38	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:40	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:42	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:44	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:46	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:48	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:50	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:52	0.0	0.0	61.9	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	01:54	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:56	0.0	0.0	61.9	0.0	0.0
07Jan2018	01:58	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:00	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:02	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:04	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:06	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:08	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:10	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:12	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:14	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:16	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:18	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:20	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:22	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:24	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:26	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:28	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:30	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:32	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:34	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:36	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:38	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:40	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:42	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:44	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:46	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:48	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:50	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:52	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:54	0.0	0.0	61.9	0.0	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Obs Flow (CFS)
07Jan2018	02:56	0.0	0.0	61.9	0.0	0.0
07Jan2018	02:58	0.0	0.0	61.9	0.0	0.0
07Jan2018	03:00	0.0	0.0	61.9	0.0	0.0

Reservoir "PWS11 Basin" Results for Run "Run 1"



--- Run:Run 1 Element:PWS11 Basin Result:Storage
 --- Run:Run 1 Element:PWS11 Basin Result:Pool Elevation
 --- Run:Run 1 Element:PWS11 Basin Result:Outflow
 --- Run:Run 1 Element:PWS11 Basin Result:Combined Inflow

Project: Generations - 6, 7, 8 Simulation Run: Run 1
Reservoir: PWS11 Basin

Start of Run:	07Jan2018, 00:00	Basin Model:	EWS1
End of Run:	07Jan2018, 03:00	Meteorologic Model:	Met 1
Compute Time:	11Apr2018, 16:06:31	Control Specifications:	Control 1

Volume Units: N

Computed Results

Peak Inflow:	1.3 (CFS)	Date/Time of Peak Inflow:	07Jan2018, 00:24
Peak Discharge:	1.2 (CFS)	Date/Time of Peak Discharge:	07Jan2018, 00:28
Inflow Volume:	n/a	Peak Storage:	0.0 (AC-FT)
Discharge Volume:	n/a	Peak Elevation:	68.8 (FT)

Project: Generations - 6, 7, 8 Simulation Run: Run 1
Reservoir: PWS11 Basin

Start of Run: 07Jan2018, 00:00 Basin Model: EWS1
End of Run: 07Jan2018, 03:00 Meteorologic Model: Met 1
Compute Time: 11Apr2018, 16:06:31 Control Specifications: Control 1

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	00:00	0.0	0.0	66.0	0.0
07Jan2018	00:02	0.0	0.0	66.0	0.0
07Jan2018	00:04	0.1	0.0	66.0	0.0
07Jan2018	00:06	0.1	0.0	66.1	0.0
07Jan2018	00:08	0.1	0.0	66.1	0.0
07Jan2018	00:10	0.2	0.0	66.2	0.0
07Jan2018	00:12	0.2	0.0	66.3	0.0
07Jan2018	00:14	0.6	0.0	66.5	0.0
07Jan2018	00:16	0.9	0.0	66.9	0.0
07Jan2018	00:18	1.1	0.0	67.5	0.0
07Jan2018	00:20	1.2	0.0	68.1	0.0
07Jan2018	00:22	1.3	0.0	68.6	0.2
07Jan2018	00:24	1.3	0.0	68.7	0.9
07Jan2018	00:26	1.3	0.0	68.8	1.2
07Jan2018	00:28	1.2	0.0	68.8	1.2
07Jan2018	00:30	1.2	0.0	68.8	1.2
07Jan2018	00:32	1.2	0.0	68.8	1.2
07Jan2018	00:34	1.1	0.0	68.8	1.2
07Jan2018	00:36	1.1	0.0	68.7	1.1
07Jan2018	00:38	1.0	0.0	68.7	1.0
07Jan2018	00:40	0.9	0.0	68.7	1.0
07Jan2018	00:42	0.9	0.0	68.7	0.9
07Jan2018	00:44	0.8	0.0	68.7	0.9
07Jan2018	00:46	0.8	0.0	68.7	0.8
07Jan2018	00:48	0.8	0.0	68.7	0.8
07Jan2018	00:50	0.8	0.0	68.7	0.8

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	00:52	0.7	0.0	68.7	0.8
07Jan2018	00:54	0.7	0.0	68.7	0.7
07Jan2018	00:56	0.7	0.0	68.7	0.7
07Jan2018	00:58	0.7	0.0	68.7	0.7
07Jan2018	01:00	0.6	0.0	68.7	0.7
07Jan2018	01:02	0.6	0.0	68.7	0.6
07Jan2018	01:04	0.6	0.0	68.7	0.6
07Jan2018	01:06	0.6	0.0	68.7	0.6
07Jan2018	01:08	0.5	0.0	68.7	0.6
07Jan2018	01:10	0.4	0.0	68.6	0.5
07Jan2018	01:12	0.3	0.0	68.6	0.4
07Jan2018	01:14	0.2	0.0	68.6	0.3
07Jan2018	01:16	0.1	0.0	68.6	0.2
07Jan2018	01:18	0.1	0.0	68.6	0.2
07Jan2018	01:20	0.1	0.0	68.6	0.1
07Jan2018	01:22	0.1	0.0	68.6	0.1
07Jan2018	01:24	0.1	0.0	68.5	0.1
07Jan2018	01:26	0.0	0.0	68.5	0.1
07Jan2018	01:28	0.0	0.0	68.5	0.1
07Jan2018	01:30	0.0	0.0	68.5	0.1
07Jan2018	01:32	0.0	0.0	68.5	0.0
07Jan2018	01:34	0.0	0.0	68.5	0.0
07Jan2018	01:36	0.0	0.0	68.5	0.0
07Jan2018	01:38	0.0	0.0	68.5	0.0
07Jan2018	01:40	0.0	0.0	68.5	0.0
07Jan2018	01:42	0.0	0.0	68.5	0.0
07Jan2018	01:44	0.0	0.0	68.5	0.0
07Jan2018	01:46	0.0	0.0	68.5	0.0
07Jan2018	01:48	0.0	0.0	68.5	0.0
07Jan2018	01:50	0.0	0.0	68.5	0.0
07Jan2018	01:52	0.0	0.0	68.5	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	01:54	0.0	0.0	68.5	0.0
07Jan2018	01:56	0.0	0.0	68.5	0.0
07Jan2018	01:58	0.0	0.0	68.5	0.0
07Jan2018	02:00	0.0	0.0	68.5	0.0
07Jan2018	02:02	0.0	0.0	68.5	0.0
07Jan2018	02:04	0.0	0.0	68.5	0.0
07Jan2018	02:06	0.0	0.0	68.5	0.0
07Jan2018	02:08	0.0	0.0	68.5	0.0
07Jan2018	02:10	0.0	0.0	68.5	0.0
07Jan2018	02:12	0.0	0.0	68.5	0.0
07Jan2018	02:14	0.0	0.0	68.5	0.0
07Jan2018	02:16	0.0	0.0	68.5	0.0
07Jan2018	02:18	0.0	0.0	68.5	0.0
07Jan2018	02:20	0.0	0.0	68.5	0.0
07Jan2018	02:22	0.0	0.0	68.5	0.0
07Jan2018	02:24	0.0	0.0	68.5	0.0
07Jan2018	02:26	0.0	0.0	68.5	0.0
07Jan2018	02:28	0.0	0.0	68.5	0.0
07Jan2018	02:30	0.0	0.0	68.5	0.0
07Jan2018	02:32	0.0	0.0	68.5	0.0
07Jan2018	02:34	0.0	0.0	68.5	0.0
07Jan2018	02:36	0.0	0.0	68.5	0.0
07Jan2018	02:38	0.0	0.0	68.5	0.0
07Jan2018	02:40	0.0	0.0	68.5	0.0
07Jan2018	02:42	0.0	0.0	68.5	0.0
07Jan2018	02:44	0.0	0.0	68.5	0.0
07Jan2018	02:46	0.0	0.0	68.5	0.0
07Jan2018	02:48	0.0	0.0	68.5	0.0
07Jan2018	02:50	0.0	0.0	68.5	0.0
07Jan2018	02:52	0.0	0.0	68.5	0.0
07Jan2018	02:54	0.0	0.0	68.5	0.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)
07Jan2018	02:56	0.0	0.0	68.5	0.0
07Jan2018	02:58	0.0	0.0	68.5	0.0
07Jan2018	03:00	0.0	0.0	68.5	0.0