



TOWN OF ASHLAND CITY

Planning Commission Meeting

May 01, 2023 5:30 PM

Agenda

Chairwoman: Nicole Binkley

Committee Members: Gerald Greer, Vivian Foston, JT Smith, Steven Stratton, Mike Stuart, Jerome Terrell

CALL TO ORDER

ROLL CALL

APPROVAL OF AGENDA

APPROVAL OF MINUTES

- [1.](#) March 06, 2023 Planning Commission Meeting Minutes

PUBLIC FORUM

ATTORNEY-CLIENT MEETING

NEW BUSINESS

- [2.](#) Preliminary Site Plan: Hwy 12 S
- [3.](#) Rezone Request: 108 Duke Street
- [4.](#) Rezone Request: 109 Elizabeth Street
5. Accessory Use Regulations Discussion

OTHER

ADJOURNMENT

Those with disabilities who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting, should contact the ADA Coordinator at 615-792-6455, M-F 8:00 AM – 4:00 PM. The town will make reasonable accommodations for those persons.



TOWN OF ASHLAND CITY
Planning Commission Meeting
March 06, 2023 5:30 PM
Minutes

CALL TO ORDER

Chairwoman Binkley called the meeting to order at 5:46 p.m.

ROLL CALL

PRESENT

Chairwoman Nicole Binkley
Committee Member Gerald Greer
Committee Member Vivian Foston
Committee Member JT Smith
Committee Member Mike Stuart
Committee Member Jerome Terrell

ABSENT
Committee Member Steven Stratton

APPROVAL OF AGENDA

A motion was made by Committee Member Stuart, Seconded by Committee Member Greer, to approve the agenda. All approved by voice vote.

APPROVAL OF MINUTES

1. February 6, 2023 Planning Commission Meeting Minutes
A motion was made by Committee Member Stuart, Seconded by Committee Member Greer, to approve the February 6, 2023 Planning Commission Meeting Minutes. All approved by voice vote.

PUBLIC FORUM

None.

OLD BUSINESS

2. Trash Discusson
A motion was made by Committee Member Greer, Seconded by Committee Member Stuart to defer this discussion to the next meeting. All approved by voice vote.

NEW BUSINESS

3. Preliminary Site Plan: Valley Point Homes
Mr. Jimmy Brooks spoke on behalf of the Valley Point Homes preliminary site plan. Mr. Gregory stated his recommendations. A motion was made by Committee Member Stuart, Seconded by Committee Member Smith, to deny the site plan. Voting Yea: Chairwoman Binkley, Committee Member Greer, Committee Member Foston, Committee Member Smith, Committee Member Stuart, Committee Member Terrell.

OTHER

None.

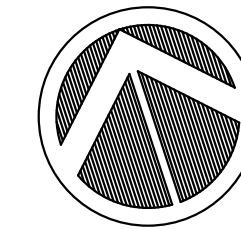
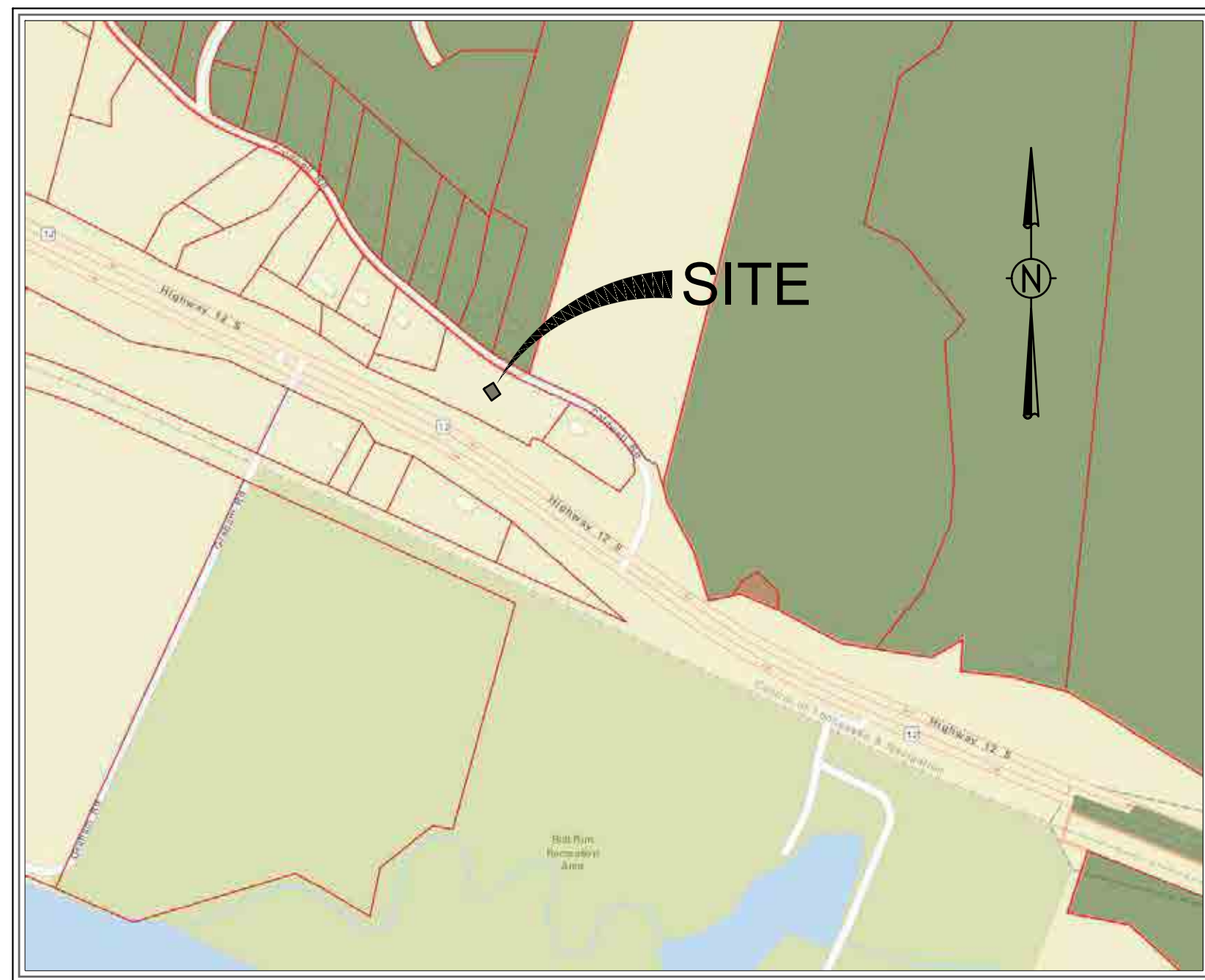
ADJOURNMENT

A motion was made by Committee Member Stuart, Seconded by Committee Member Greer, to adjourn the meeting. All approved by voice vote and the meeting adjourned at 6:16 p.m.

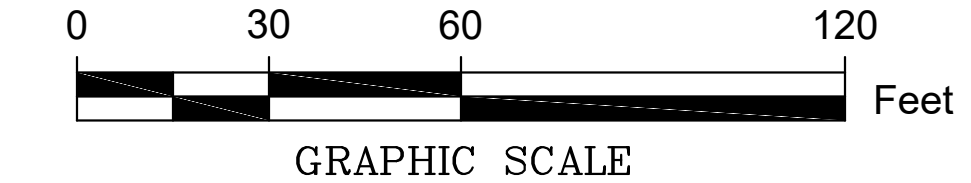
CHAIRWOMAN NICOLE BINKLEY

CITY RECORDER ALICIA MARTIN, CMFO

VALLEY POINT HOMES CONSTRUCTION DRAWINGS FOR JIMMY BROOKS



TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988



LEGEND	
---	PROPERTY LINE
X - X	EXISTING FENCE
—O—O—	EXISTING OVERHEAD POWER LINE
—SA—SA—	EXISTING SANITARY SEWER
—ST—ST—	EXISTING STORM SEWER
—W—W—	EXISTING WATER LINE
[Grey Box]	EXISTING PUBLIC ROAD
[Green Box]	GRASS STRIP/ GREEN SPACE
[Dark Grey Box]	ASPHALTIC CONCRETE
[Light Green Box]	CONCRETE SIDEWALK
[Yellow Box]	PRIVATE DRIVE
[Dark Green Box]	PROPOSED BUILDING
[Blue Box]	DETECTION POND
[Light Blue Box]	BUFFER ZONE

SITE CONSTRUCTION NOTES

- The necessary permits for the work shown on these site development plans will be obtained by the contractor prior to commencement of any work on this project. The contractor shall give all necessary notices and obtain all permits and pay all fees involved in securing said permits. He shall also comply with all city, county and state building laws, ordinances or regulations relating to the construction of the project.
- The contractor shall be responsible for and shall bear all expenses of field staking necessary for site and building layout. All layout shall be performed in accordance with the site layout plan.
- The location of existing piping and underground utilities, such as water and gas lines, electrical and telephone conduits, etc., as shown on this portion of the plans have been determined from the best available information by actual surveys, or taken from the records and drawings of the existing utilities. However, the civil engineer does not assume responsibility that, during construction, the possibility of utilities other than

those shown may be encountered or that actual location of those shown may vary somewhat from the location designated on this portion of the plans. In areas where it is necessary that the exact locations of underground lines be known, the contractor shall, at his own expense, furnish all labor and tools to either verify and substantiate or definitively establish the location of the lines.

The contractor must understand that the work is entirely at his risk until same is accepted and he will be held responsible for its safety by the owner. Therefore, the contractor shall furnish and install all necessary temporary works for the protection of the work, including barricades, warning signs, and lights.

The site development portion of this project will be subject to the inspection and final approval of the local planning, codes, water and sewer departments (and/or utility districts), engineering/public works departments and fire marshal's office.

If, during the construction of the site development portion of this project, a question of intent or clarity arises from either the plans or specifications, the contractor will immediately bring the

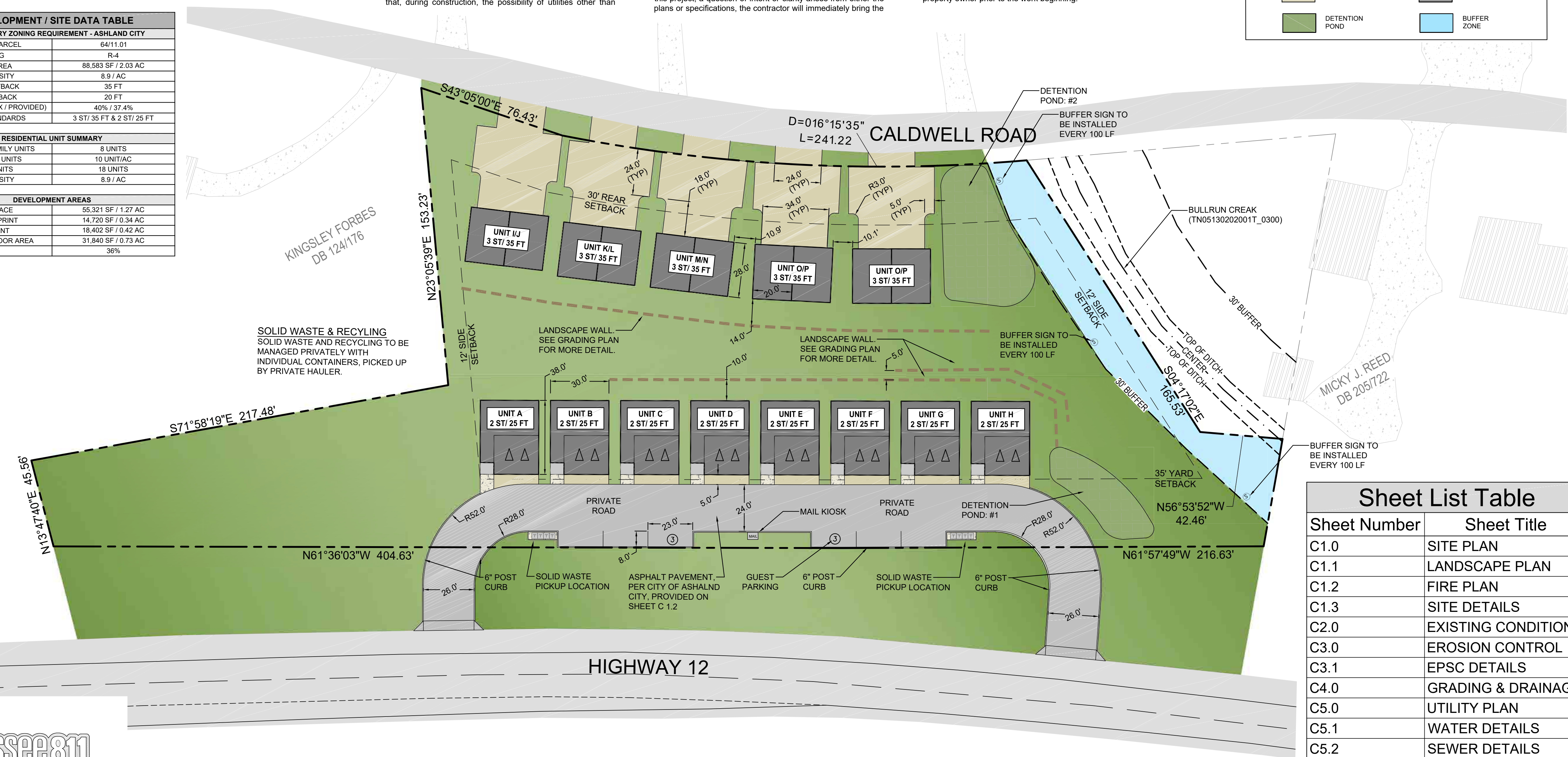
matter to the attention of the civil engineer or owner's representative for resolution before the affected work items are initiated or pursued further.

The contractor will exercise extreme caution in the use of equipment in and around overhead and/or underground power lines. If at any time in the pursuit of this work the contractor must work in close proximity of the above-noted lines, the electric and/or telephone companies shall be contacted prior to such work and the proper safety measures taken. The contractor should make a thorough examination of the overhead lines in the project area prior to the initiation of construction.

The contractor shall be responsible for any damage done to the premises or adjacent premises, or injuries to the public during the construction of the work, caused by himself, his subcontractors, or the carelessness of any of his employees.

Any offsite work to be coordinated by contractor with subject property owner prior to the work beginning.

DEVELOPMENT / SITE DATA TABLE	
REGULATORY ZONING REQUIREMENT - ASHLAND CITY	
TAX MAP / PARCEL	64/11.01
ZONING	R-4
TOTAL AREA	88,583 SF / 2.03 AC
UNIT DENSITY	8.9 / AC
FRONT SETBACK	35 FT
REAR SETBACK	20 FT
MAX LOT COV. (MAX / PROVIDED)	40% / 37.4%
HEIGHT STANDARDS	3 ST/ 35 FT & 2 ST/ 25 FT
RESIDENTIAL UNIT SUMMARY	
NO. SINGLE FAMILY UNITS	8 UNITS
NO. DUPLEX UNITS	10 UNIT/AC
TOTAL UNITS	18 UNITS
UNIT DENSITY	8.9 / AC
DEVELOPMENT AREAS	
OPEN SPACE	55,321 SF / 1.27 AC
BLD FOOTPRINT	14,720 SF / 0.34 AC
PAVEMENT	18,402 SF / 0.42 AC
BLD GROSS FLOOR AREA	31,840 SF / 0.73 AC
FAR	36%



Sheet List Table	
Sheet Number	Sheet Title
C1.0	SITE PLAN
C1.1	LANDSCAPE PLAN
C1.2	FIRE PLAN
C1.3	SITE DETAILS
C2.0	EXISTING CONDITIONS
C3.0	EROSION CONTROL
C3.1	EPSC DETAILS
C4.0	GRADING & DRAINAGE
C5.0	UTILITY PLAN
C5.1	WATER DETAILS
C5.2	SEWER DETAILS

Williams Engineering
Plan - Design - Build
Nashville: 865.679.5992 | mwilliams@wv-design.com



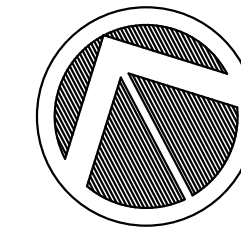
VALLEY POINT HOMES
FOR
JIMMY BROOKS
0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE
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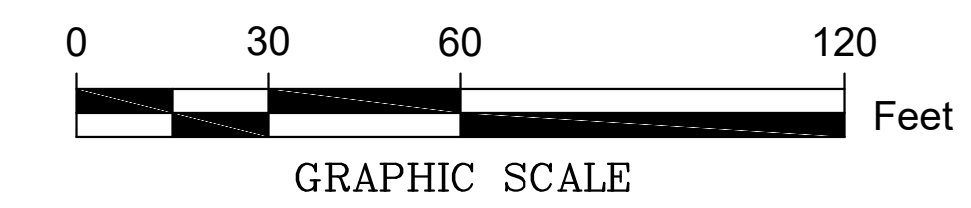
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DATE: 3/31/2023
SCALE: 1"=30'
JOB #: 20230210-1

SITE PLAN
C1.0



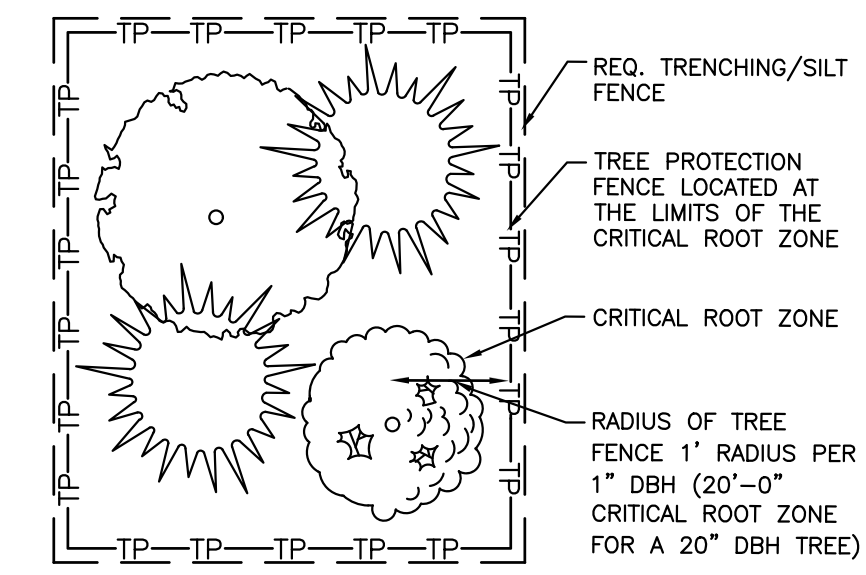


TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988



NOTE:
EXISTING TREES NOT LOCATED WITHIN LIMITS
OF DISTURBANCE WITHIN 50' OF GRADING SHALL
BE PROTECTED PER STANDARD DETAIL BELOW.

TREE PROTECTION STANDARD DETAIL



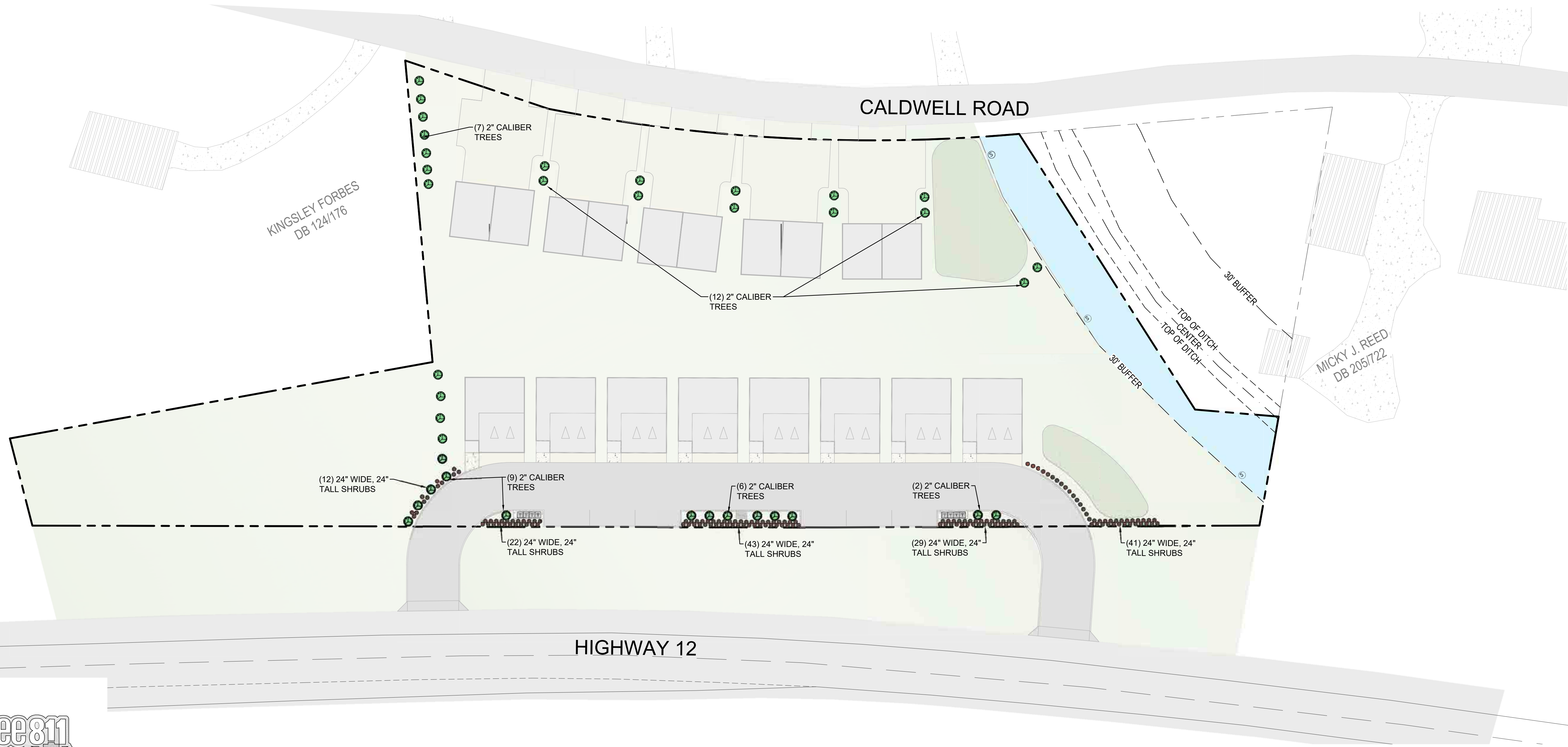
NOTE:
ALL TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO THE
ISSUANCE OF A GRADING OR LAND DISTURBANCE PERMIT AND SHALL
BE MAINTAINED IN GOOD WORKING ORDER UNTIL ALL CONSTRUCTION
ACTIVITY IS COMPLETED. NO DISTURBANCE IS PERMITTED IN A TREE
PRESERVATION AREA. ANY REQUIRED EROSION CONTROL MEASURES
SHALL BE PLACED OUTSIDE OF ANY TREE PROTECTION FENCING.

LANDSCAPE CALCULATIONS

TREE REQUIREMENTS: 3.140 SEC. F
35 CALIPER INCHES OF PROPOSED TREES PER ACRE
REQUIRED = 35 INCHES x 2.03 AC = **71 CALIPER INCHES**
PROVIDED = (36) 2" CALIPER TREES = **72 CALIPER INCHES**
STREET FRONT: 3.140 SEC. G
ONE SHRUB (24" WIDE, 24 INCHES HIGH) PER 2 LF OF PARKING/ DRIVE
REQUIRED = 280 LF / 2 = **140 SHRUBS**
PROVIDED = **147 SHRUBS**

LANDSCAPE NOTES

1. LANDSCAPE PLAN BY REGISTERED LANDSCAPE ARCHITECT TO BE PROVIDED PRIOR TO GRADING PERMIT APPROVAL.
2. 75% OF REQUIRED TREES SHALL BE NATIVE TO SOUTHEASTERN UNITED STATES.
3. 50% OF REQUIRED TREES SHALL BE MINIMUM 2 CALIPER INCHES IN SIZE.
4. NO PROPOSED CANOPY TREE PLANTED AT A SIZE LESS THAN 2 CALIPER INCHES WILL BE ACCEPTED AS A REQUIRED TREE.
5. A MINIMUM OF 20% AND MAXIMUM OF 50% OF REQUIRED TREES SHALL BE UNDERSTORY AND/OR ORNAMENTAL TREES.



VALLEY POINT HOMES

FOR
JIMMY BROOKS

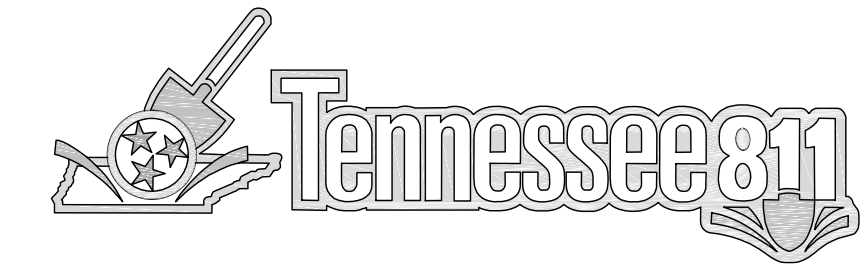
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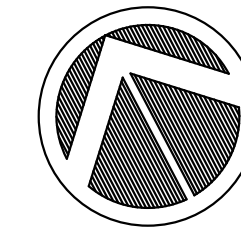
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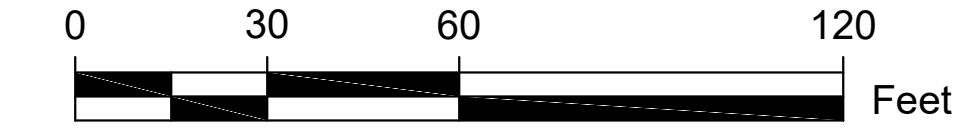
LANDSCAPE PLAN

C1.1

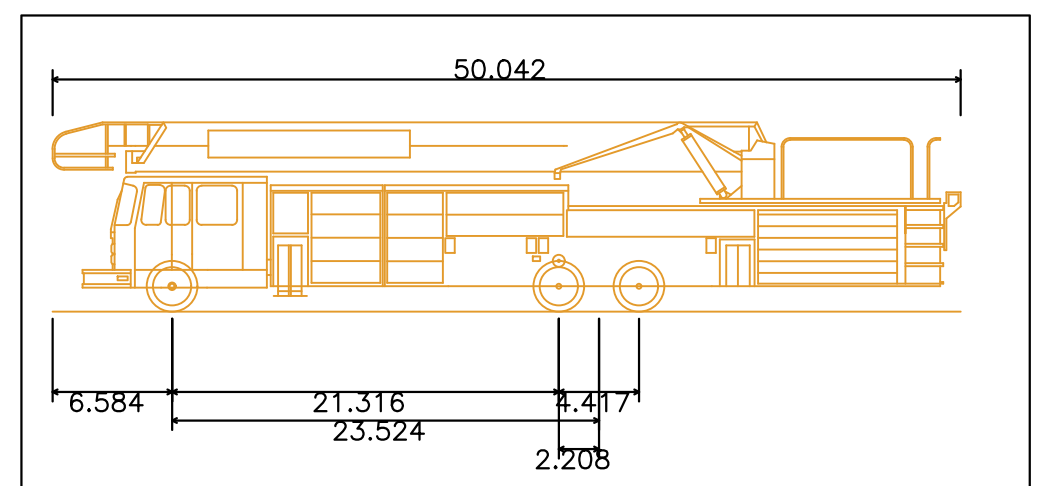




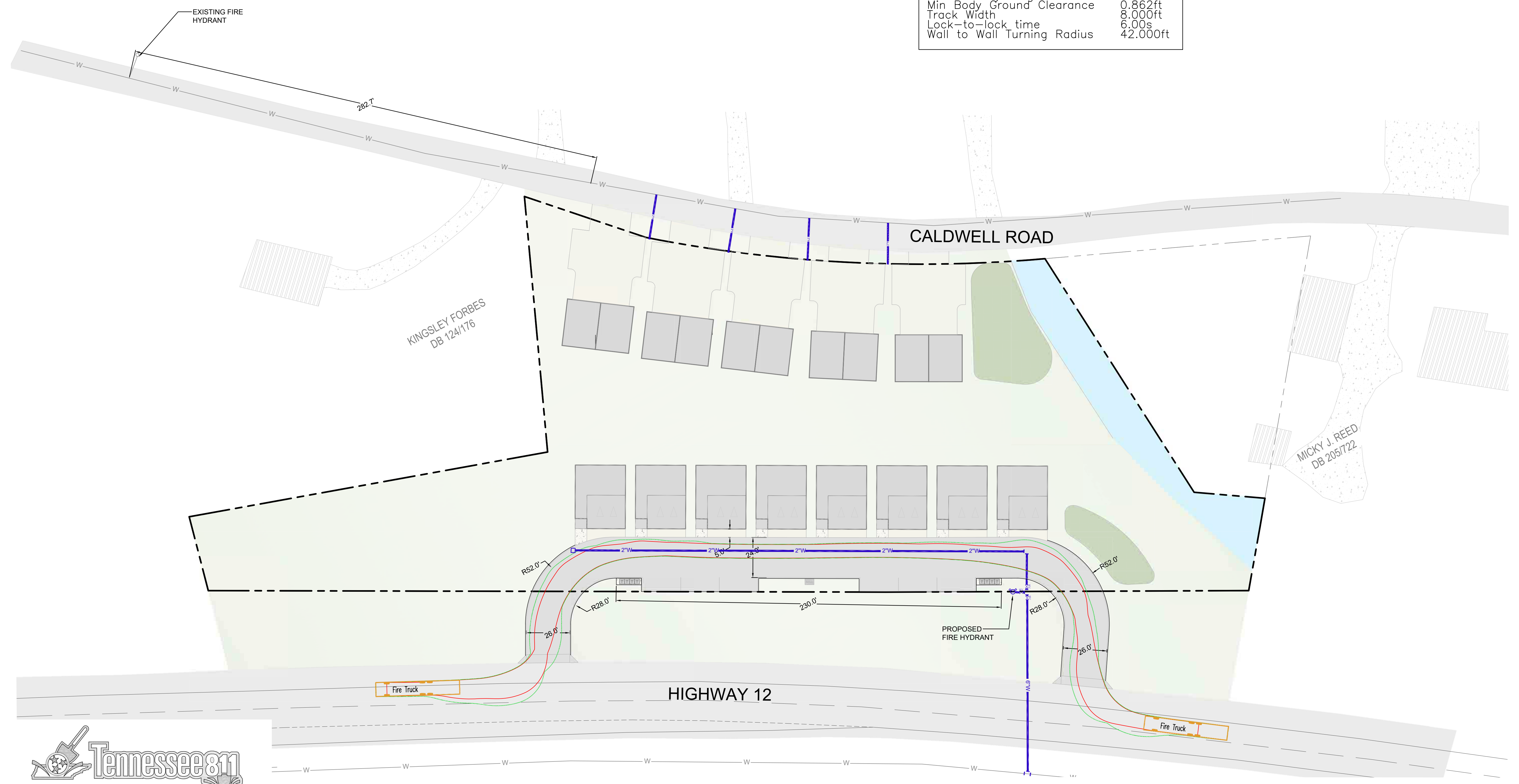
TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
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GRAPHIC SCALE



Fire Truck
Overall Length 50.042ft
Overall Width 8.330ft
Overall Body Height 10.432ft
Min Body Ground Clearance 0.862ft
Track Width 8.000ft
Lock-to-lock time 6.00s
Wall to Wall Turning Radius 42.000ft



VALLEY POINT HOMES

FOR
JIMMY BROOKS
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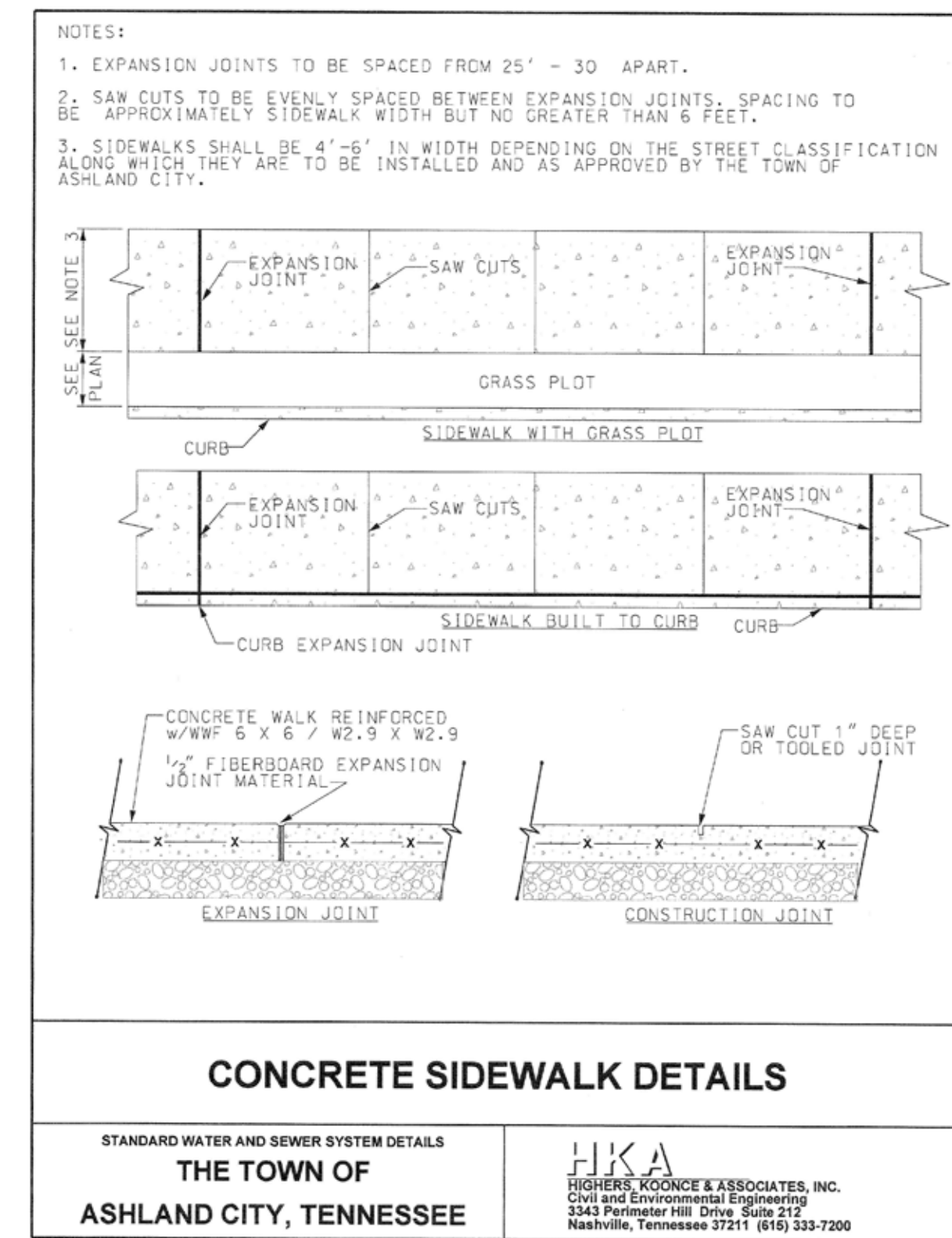
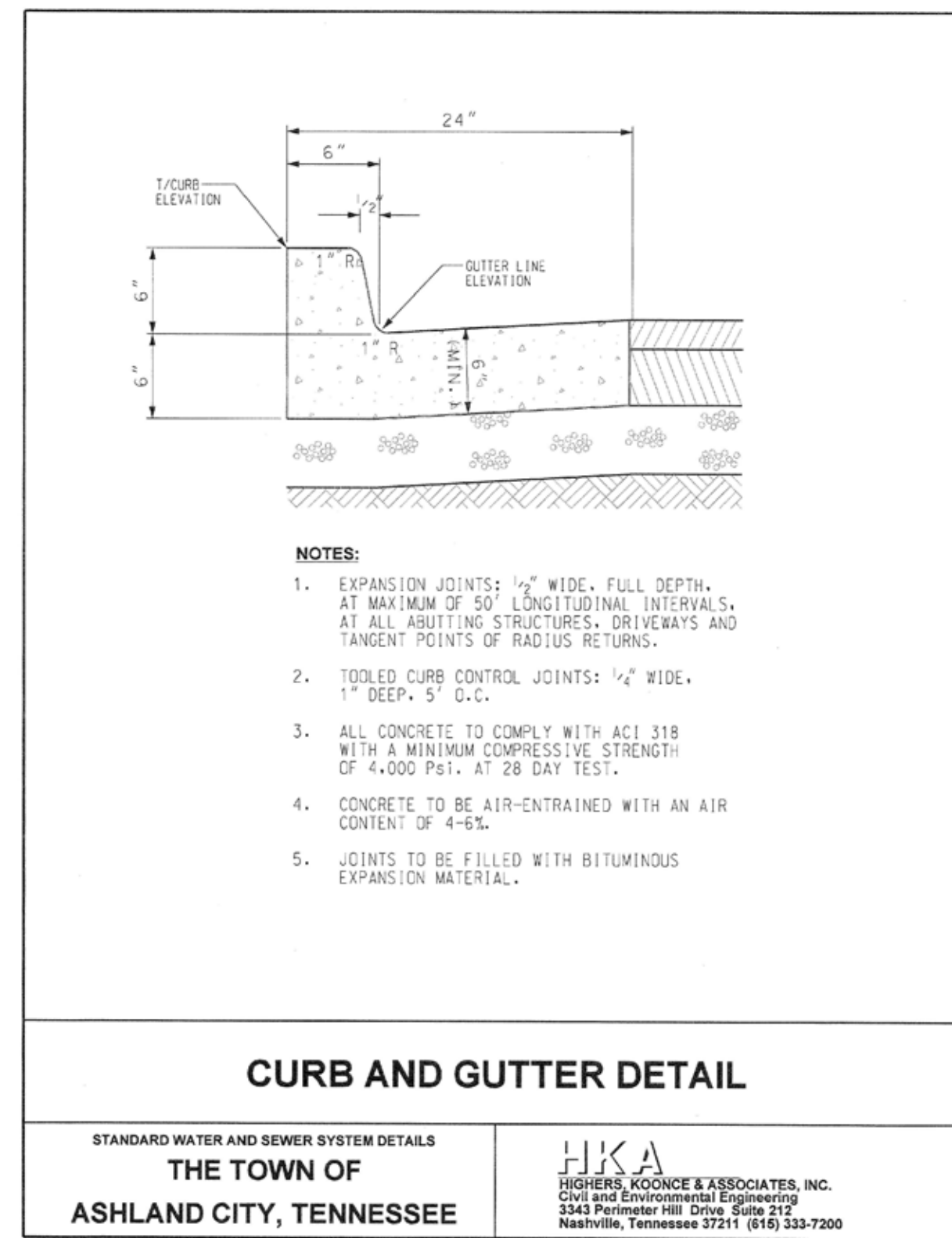
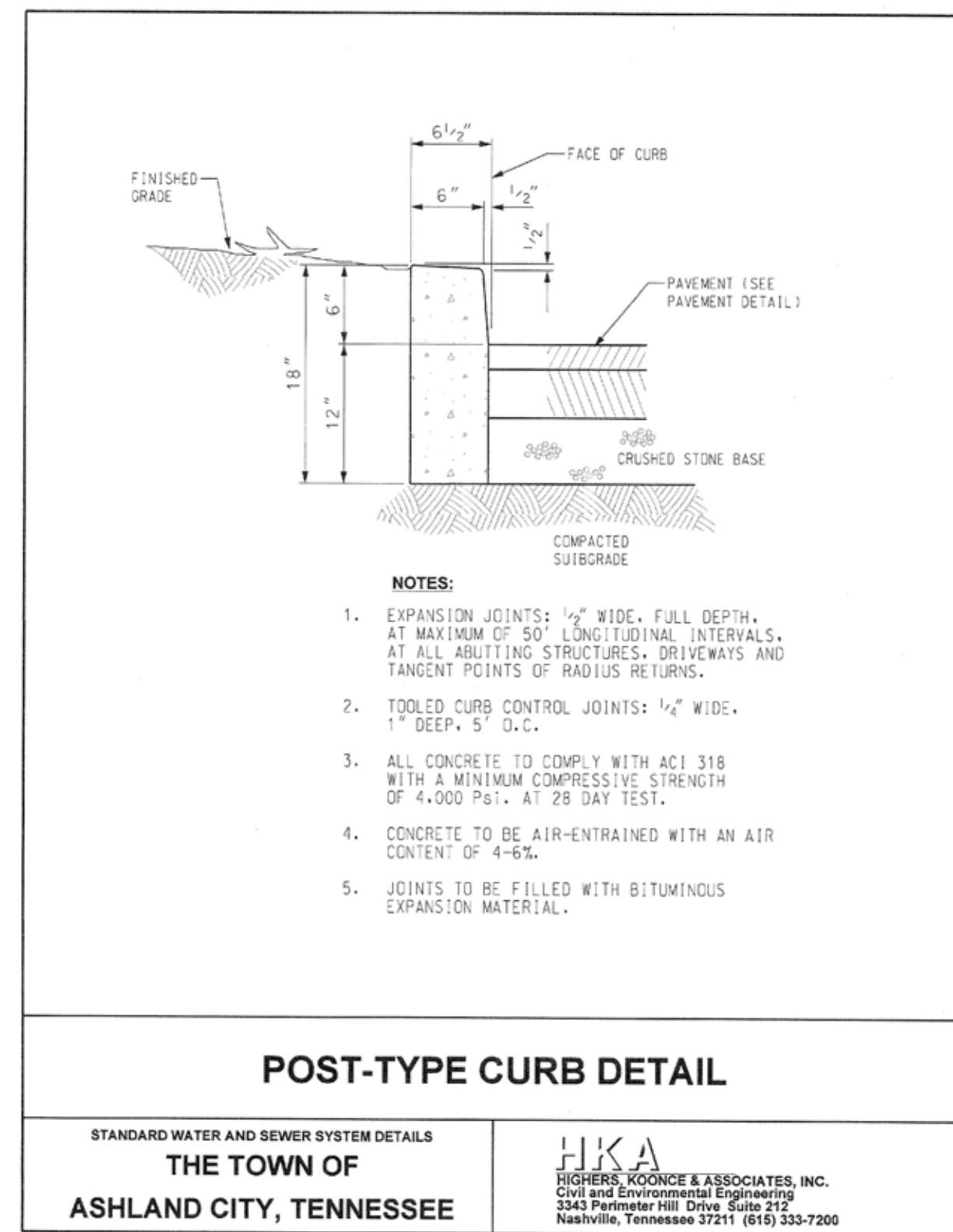
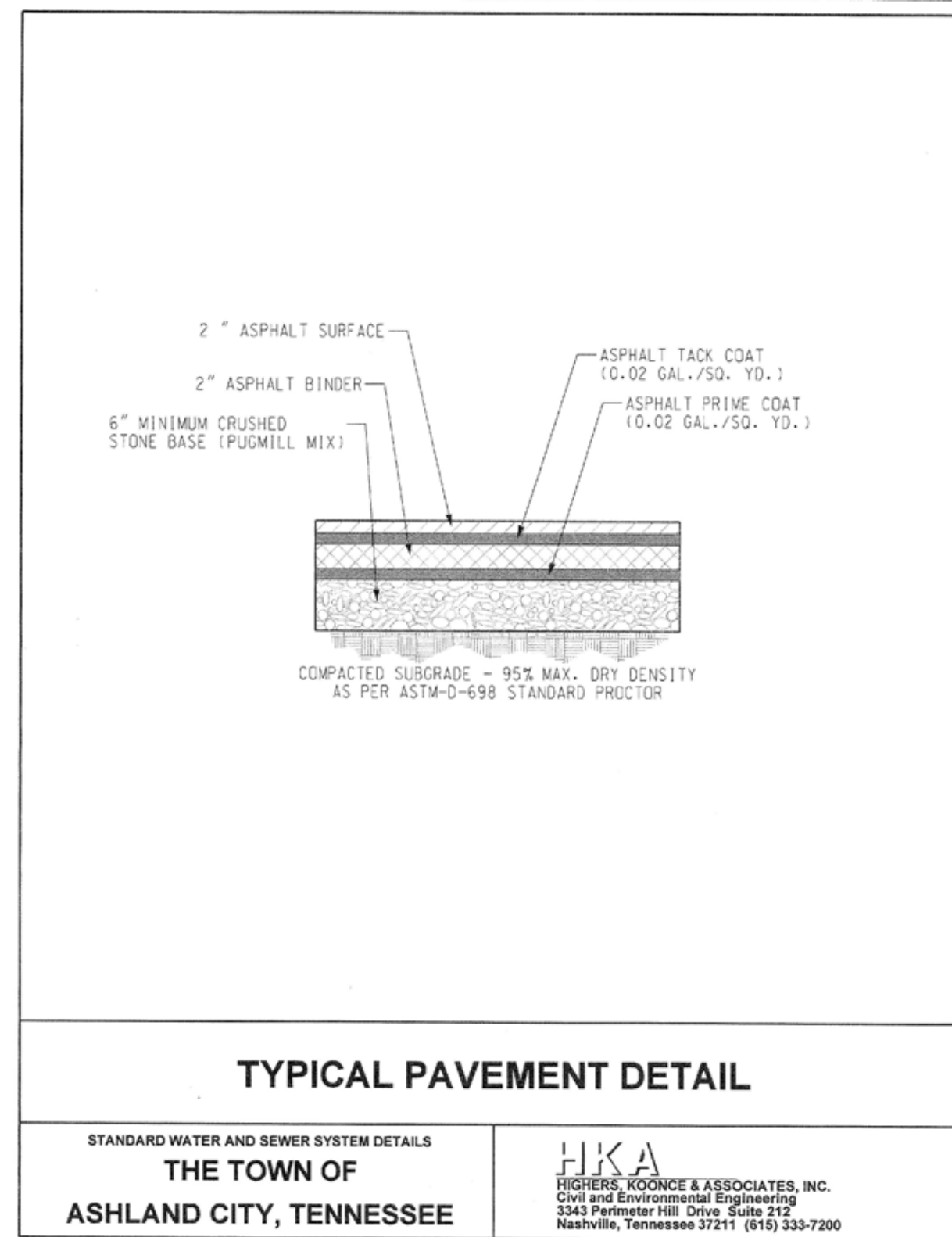
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DESIGNED BY: MLW
DATE: 3/31/2023
SCALE: 1"=30'
JOB #: 20230210-1

FIRE PLAN

C1.2





VALLEY POINT HOMES
 FOR
JIMMY BROOKS
 0 CALDWELL ROAD ASHLAND CITY, TN 37015

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DESIGNED BY: MLW
 DATE: 3/31/2023
 SCALE: N/A
 JOB #: 20230210-1

SITE DETAILS
C1.3



VALLEY POINT HOMES
FOR
JIMMY BROOKS
0 CALDWELL ROAD ASHLAND CITY, TN 37015

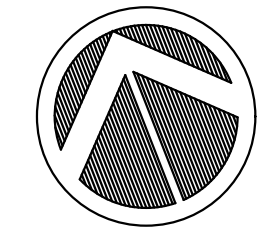
REVISIONS	DATE

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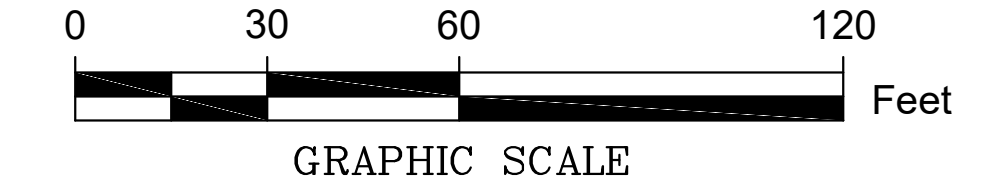
EXISTING CONDITIONS
C2.0

EXISTING CONDITIONS & DEMO NOTES

- The contractor will be required to remove all excavated materials and such items shall become the property of the contractor. All items shall be properly disposed of at an off-site location. The contractor shall outline any and all possible haul routes and shall be prepared to submit such to the local jurisdiction public works department, the civil engineer and other authorities for approval.
- If, at any time, prior to or during the demolition work, hazardous material is encountered, the contractor shall notify the owner's representative and appropriate governmental agency.
- The contractor shall notify adjacent owners of work that may affect their property, potential noise, utility outage or disruption. Such operations shall be conducted by the contractor with minimum interference to adjacent owners. Adjacent egress and access shall be properly maintained at all times. Do not close or obstruct any roadways, parking or sidewalks without permission from the adjacent owners or the local jurisdiction public works department.
- Prior to the commencement of demolition/grading operations, all overhead and underground utilities shall be located. All removal and/or relocation of utilities shall be coordinated with the respective utility companies.
- The contractor will provide all necessary protective measures to safeguard existing utilities from damage during construction of this project. In the event that special equipment is required to work over or around the utilities, the contractor will be required to furnish such equipment at no additional cost to owner.
- The contractor will be solely responsible for contacting all affected utilities prior to submitting his bid to determine the extent to which utility disconnections and/or adjustments will have upon the schedule of the work for the project. Some utility facilities may need to be adjusted concurrently with the contractor's operations, while some work may be required 'around' utility facilities that will remain in place. It is understood and agreed that the contractor will receive no additional compensation for delays or inconvenience caused by the utility adjustment.

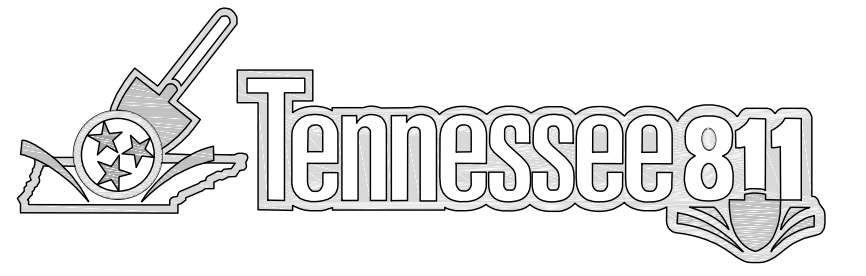
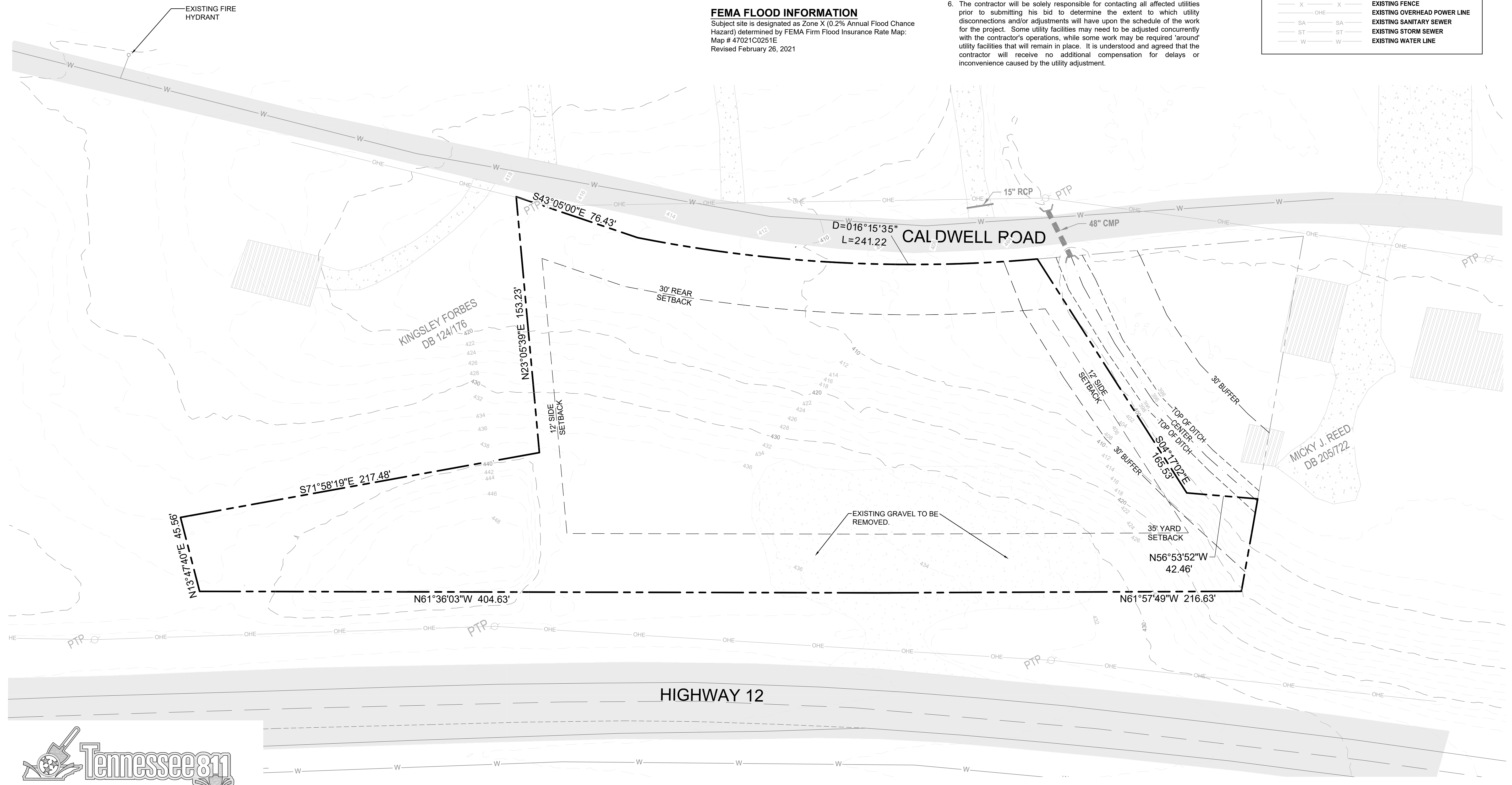


TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988



LEGEND	
---	PROPERTY LINE
-X-X-	EXISTING FENCE
-OHE-	EXISTING OVERHEAD POWER LINE
-SA-SA-	EXISTING SANITARY SEWER
-ST-ST-	EXISTING STORM SEWER
-W-W-	EXISTING WATER LINE

FEMA FLOOD INFORMATION
Subject site is designated as Zone X (0.2% Annual Flood Chance Hazard) determined by FEMA Firm Flood Insurance Rate Map: Map # 47021C0251E
Revised February 26, 2021



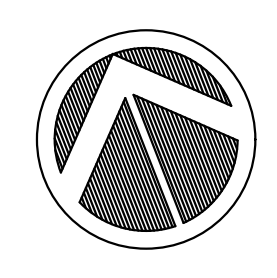


VALLEY POINT HOMES
FOR
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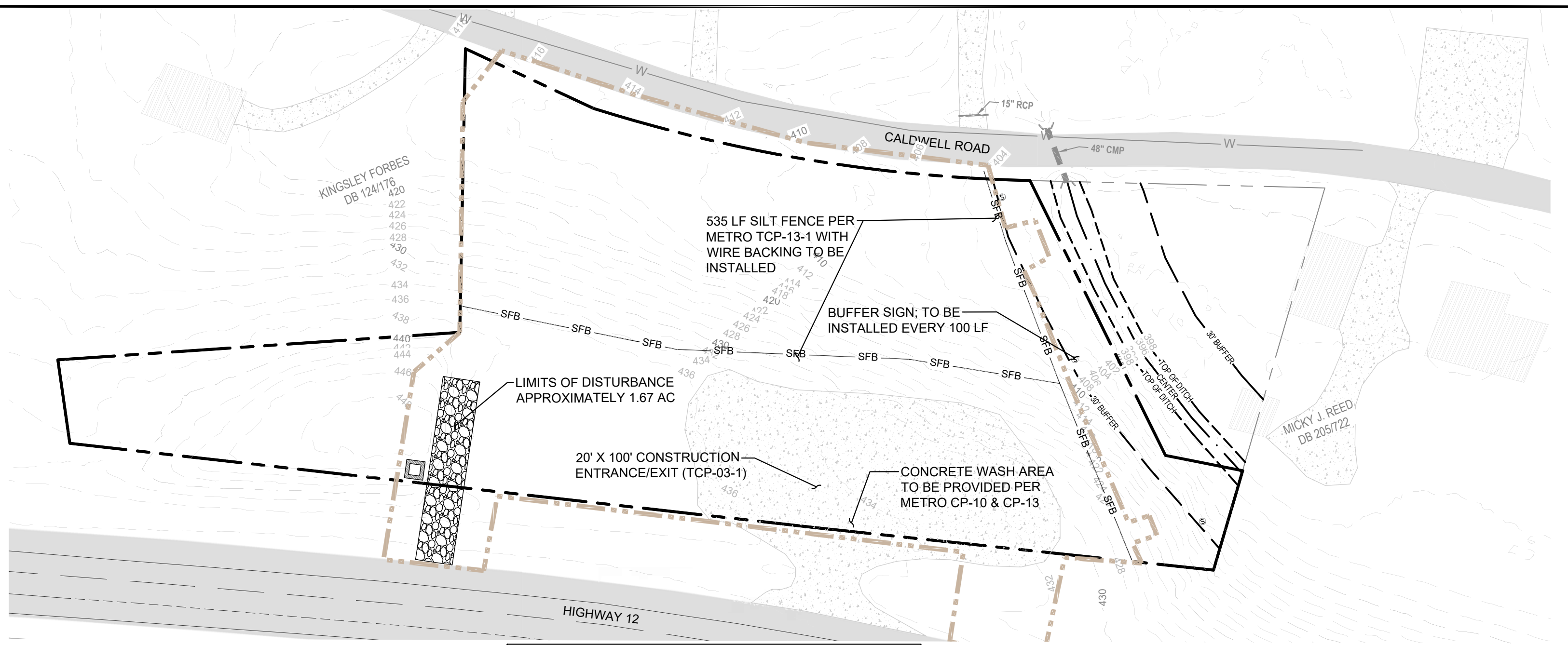
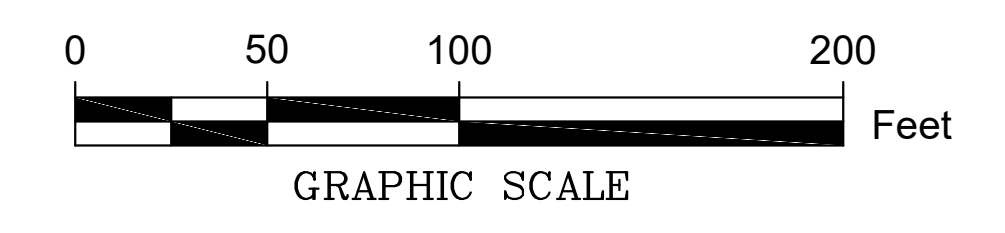
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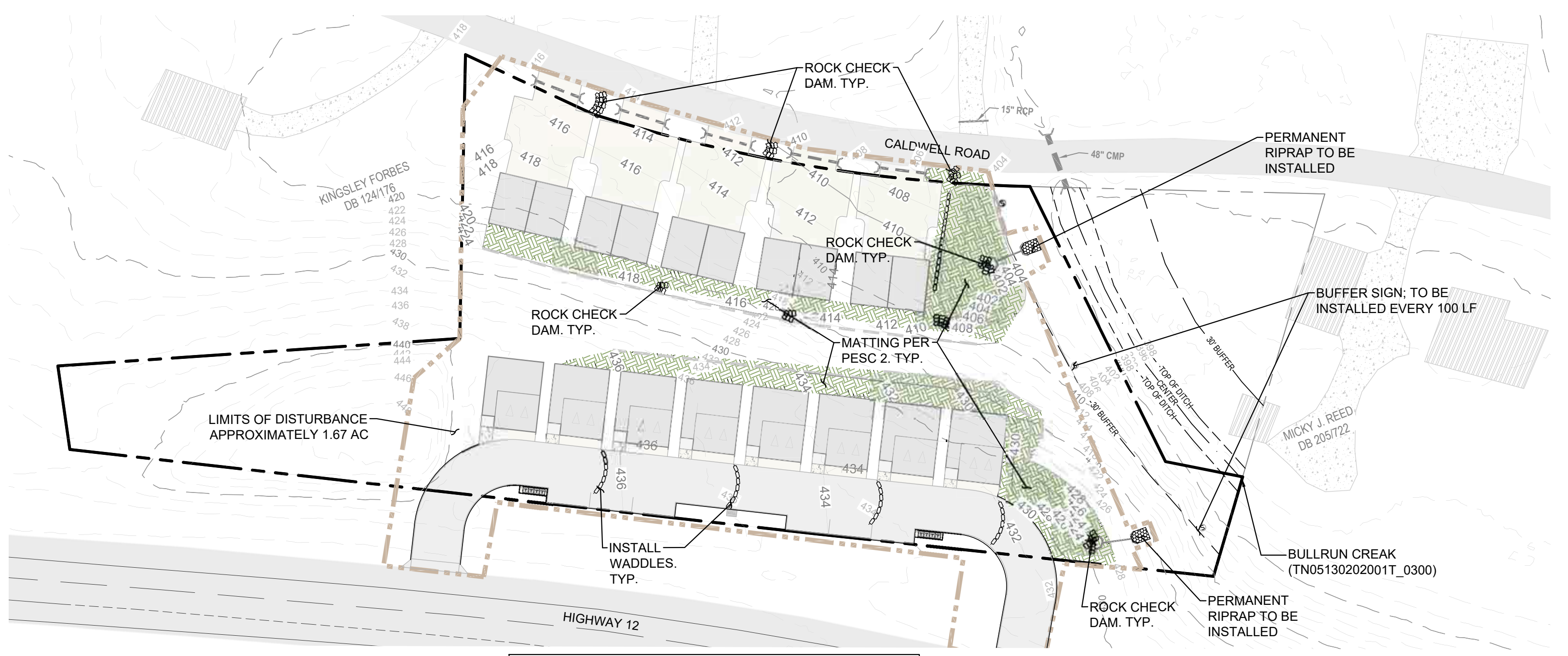
EROSION CONTROL
C3.0



TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988



EROSION CONTROL - PHASE I



EROSION CONTROL - PHASE II

STREAM BUFFER SIGN SPECIFICATIONS:
BUFFER SIGNS MAY BE PURCHASED FROM A VARIETY OF SIGN VENDORS. PLEASE MAKE CERTAIN THE COMPANY IS USING THE METRO APPROVED ARTWORK AND THE FOLLOWING SPECIFICATIONS:

- 12" X 18" WHITE 0.063 ALUMINUM
- BLACK AND KELLEY GREEN COPY
- SINGLE SIDED
- SIGN TO BE MOUNTED TO POST AT TOP AND BOTTOM WITH STAINLESS STEEL HARDWARE.

POST DESCRIPTION:
- 6" GALVANIZED U-CHANNEL LUMBER POST
- 2" BELOW GRADE
- 4" ABOVE GRADE

IF SIGN VENDOR DOES NOT HAVE THE APPROVED ARTWORK, PLEASE HAVE THEM CONTACT REBECCA DOHN @ 615-880-2420 OR REBECCA.DOHN@NASHVILLE.GOV.



NOTE:
BUFFER SIGNS ARE REQUIRED (1 PER 100 LF).

TEMPORARY COVER SEEDING MIXTURES

SEEDING DATES	GRASS SEED	PERCENTAGES
January 1 to May 1	Italian Rye	33%
	Korean Lespedeza	33%
	Summer Oats	34%
May 1 to July 15	Sudan- Sorghum	100%
May 1 to July 15	Starr Millet	100%
July 15 to January 1	Balboa Rye	67%
	Italian Rye	33%

SOURCE: TDOT STANDARD SPECIFICATIONS:

PERMANENT COVER SEEDING MIXTURES

SEEDING DATES	GRASS SEED	PERCENTAGES
February 1 to July 1	Kentucky 31 Fescue	80%
	Korean Lespedeza	15%
	English Rye	5%
June 1 to August 15	Kentucky 31 Fescue	55%
	English Rye	20%
	Korean Lespedeza	15%
April 15 to August 15	German Millet	10%
	Bermudagrass (hulled)	70%
	Annual Lespedeza	30%
August 1 to December 1	Kentucky 31 Fescue	70%
	English Rye	20%
	White Clover	10%
February 1 to December 1	Kentucky 31 Fescue	70%
	Crown Vetch	25%
	English Rye	5%

SOURCE: TDOT STANDARD SPECIFICATIONS:

Tennessee Construction General Permit Certification Stamp
Metropolitan Government of Nashville Davidson County
Department of Water & Sewerage Services

Tennessee Construction General Permit Notice of Coverage (NOC) Certification:
Please fill out and sign/date one of the following two statements:

1. The project associated with these submitted plans is covered under Tennessee Construction General Permit TN _____ The Total Disturbed Area is: 1.67 acres.

Check all that apply: This site discharges into waters identified by TDEC as: Bull Run Creek Impaired for siltation Impaired for habitat alteration Exceptional (TN0513022001T_0300)

Michael Williams 3/31/2023
Signature Date

Circle one: Developer Project Engineer Other _____

Please attach a copy of the Notice of Coverage under the Construction General Permit.

NOTE: A project will not be scheduled for a Pre-Construction Meeting until the State Construction General Permit NOC letter is submitted.

2. I hereby certify that this project does not require coverage under a Tennessee Construction General Permit. The Total Disturbed Area is: _____ acres.

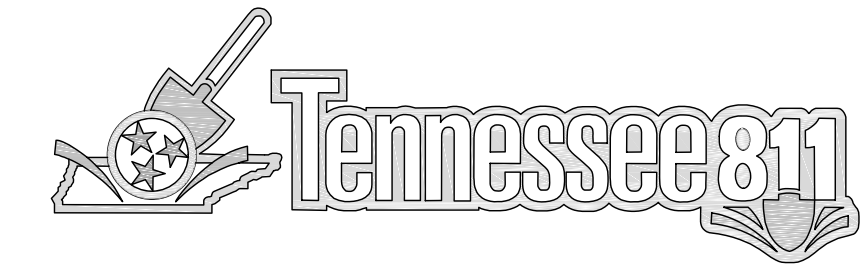
Check all that apply: This site discharges into waters identified by TDEC as: Impaired for siltation Impaired for habitat alteration Exceptional

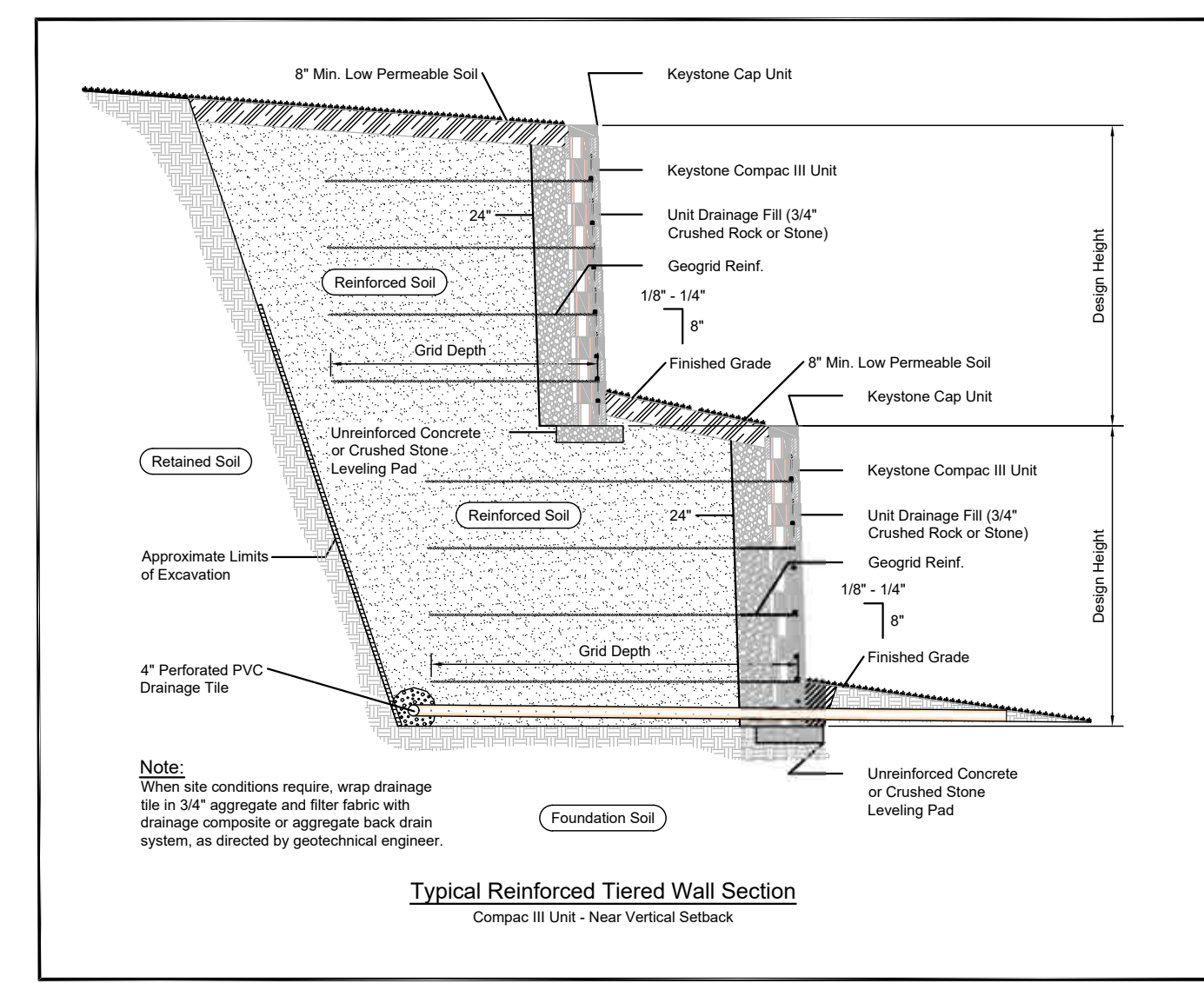
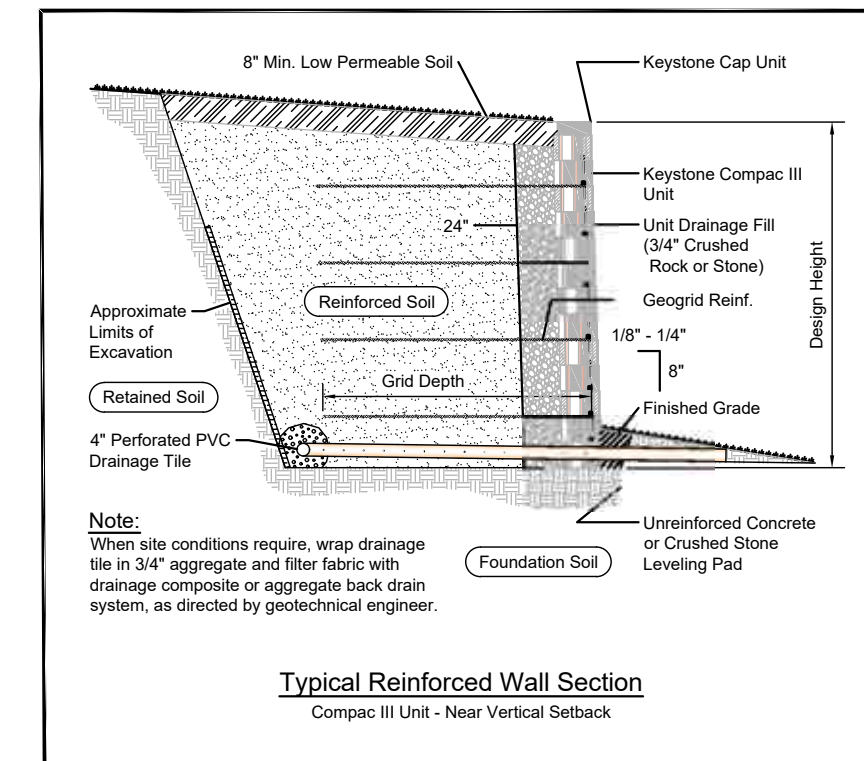
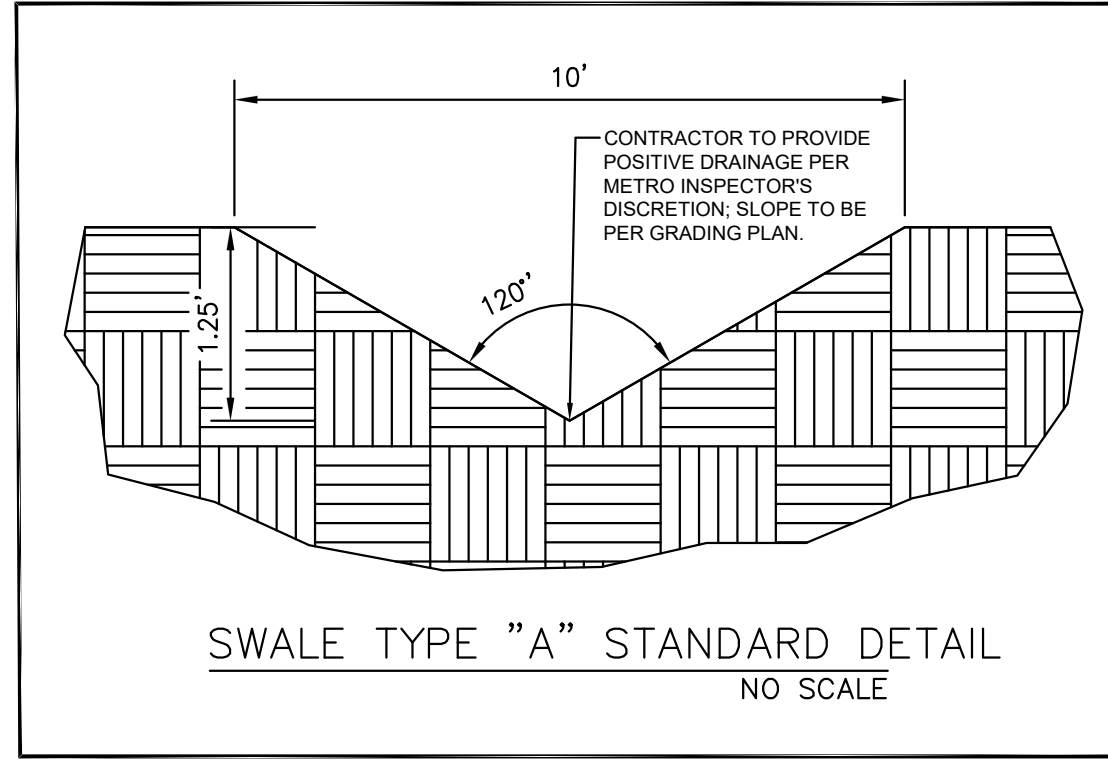
Signature Date

Circle one: Developer Project Engineer Other _____

Erosion Prevention & Sediment Controls

- All control measures must be properly installed and maintained in accordance with the manufacturer's specifications, Tdec and local standards.
- Contractors shall verify location, depth, and size of existing utilities prior to beginning construction, and shall be responsible for making the necessary arrangements with the governing utility company for utilities requiring relocation.
- Bmp capacity (sediment traps, silt fences, sedimentation ponds, and other sediment control) shall not be reduced by more than 50% at any given time. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the contractor must replace or modify the control for relevant site situations.
- Where permanent or temporary vegetation cover is used as a control measure, the timing of the planting is critical. Planning for planting of vegetation cover during winter or dry months should be avoided.
- If sediment escapes the permitted area, off-site accumulations of sediment that have not reached a stream must be removed at a frequency sufficient to minimize offsite impacts. The contractor shall not initiate remediation/restoration of a stream without consulting the division first. The no general permit does not authorize access to private property. Arrangements concerning removal of sediment on adjoining property must be settled by the contractor and adjoining landowner.
- Litter, construction debris, and construction chemicals exposed to storm water shall be picked up prior to anticipated storm events or before being carried off of the site by wind or otherwise prevented from becoming a pollutant source for storm water discharges. After use, materials used for epsc should be removed or otherwise prevented from becoming a pollutant source for storm water discharge.
- Erodible material storage areas (including overburden and stockpiles of soil) and borrow pits are considered part of the site and should be addressed with appropriate bmp's accordingly.
- Pre-construction vegetative ground cover shall not be destroyed, removed, or disturbed more than 15 days prior to grading or earth moving unless the area is stabilized. Contractor shall sequence events to minimize the exposure time of graded or denuded areas. Clearing and grubbing shall be held to the minimum necessary for grading and equipment operation. Existing vegetation at the site should be preserved to the maximum extent practicable.
- Epsc measures must be in place and functional before moving operations begin and must be constructed and maintained throughout the construction period. Temporary measures may be removed at the beginning of the workday, but must be replaced at the end of the workday.
- The following records shall be maintained on or near site: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease or a portion of the site; the dates when stabilization measures are initiated; inspection records and rainfall records. Contractor shall maintain a rain gauge and daily rainfall records at the site, or use a reference site for a record of daily amount of precipitation.
- A copy of the swppp shall be retained on-site and should be accessible to the director and the public. Once site is inactive or does not have an onsite location adequate to store the swppp, the location of the swppp, along with a contact phone number, shall be posted on-site. If the swppp is located off-site, reasonable local access to the plan, during normal working hours, must be provided.
- Off-site vehicle tracking of sediments and the generation of dust shall be minimized. A stabilized construction access (a point of entrance/exit to a construction site) shall be constructed as needed to reduce the tracking of mud and dirt onto public roads by construction vehicles.
- Inspections must be performed at least twice every calendar week. Inspections shall be performed at least 72 hours apart. Where sites or portions of construction sites have been temporarily stabilized, or runoff is unlikely due to winter conditions or due to extreme drought, such inspection has to be conducted once per month until thawing or precipitation results in runoff or construction activities resumes. Inspection requirement do not apply to definable areas that have been finally stabilized, as designed by the engineer. Written notification of the intent to change the inspection frequency and the justification for such request must be submitted to the local environmental field office, or the division's nashville central office for projects of dtot or tva. Should the division discover that monthly inspection of the division discover that monthly inspections of the site are not appropriate due to insufficient stabilization measures or otherwise, twice weekly inspections shall resume. The division may inspect the site to confirm or deny the notification to conduct monthly inspections.
- Inspectors performing the required twice weekly inspections must have an active certification and a record of certification must be kept on site. Based on the results of the inspection, any inadequate control measures or control measures in despair shall be replaced or modified, or repaired as necessary, before the next rain event, but in no case more than 7 days after the need identified.
- Outfall points shall be inspected to determine whether epsc measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- Contractor shall provide an area for concrete wash down and equipment fueling in accordance with Metro CP-10 and CP-13, respectively. Contractor to coordinate exact location with NPDES department during preconstruction meeting. Control of other site wastes such as discarded building materials, chemicals, litter, and sanitary wastes that may cause adverse impacts to water quality is also required by the Grading Permittee
- Exposed areas to be stabilized with 14 days after construction activities in the areas that have temporarily or permanently ceased. Areas with a slope of 3:1 or steeper shall be stabilized within 7 days.
- All slopes 3:1 or steeper to be stabilized with erosion control blankets or matting.





LEGEND

---	PROPERTY LINE
X - X	EXISTING FENCE
---	EXISTING OVERHEAD POWER LINE
SA - SA	EXISTING SANITARY SEWER
ST - ST	EXISTING STORM SEWER
W - W	EXISTING WATER LINE
---	EXISTING CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED STORM SEWER
---	6\"/>

TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988

0 30 60 120 Feet
GRAPHIC SCALE

ADA NOTE:
ALL SIDEWALKS, RAMPS, CROSSWALKS,
AND RELATED PREDESTINATION
FACILITIES MUST BE ADA COMPLIANT.

NOTES

- Concrete shall be 4,000 psi @ 28 days reinforced with No. 4 bars @ 10\"/>

TABLE OF DIMENSIONS

SIZE	A	D	E	F	T (MIN)
15"	2'-4"	5'-0"	2'-4"	1'-0"	6"
18"	2'-4"	5'-0"	2'-4"	1'-0"	6"
21"	2'-4"	5'-0"	2'-4"	1'-0"	6"
24"	4'-0"	6'-0"	3'-4"	3'-3"	6"
30"	4'-0"	6'-0"	3'-4"	3'-3"	6"
36"	5'-4"	8'-0"	4'-0"	4'-0"	6"
42"	5'-4"	8'-0"	4'-0"	4'-0"	6"
48"	5'-4"	8'-0"	4'-0"	4'-0"	6"
54"	7'-0"	9'-0"	4'-4"	5'-0"	6"
60"	7'-0"	9'-0"	4'-4"	5'-0"	6"

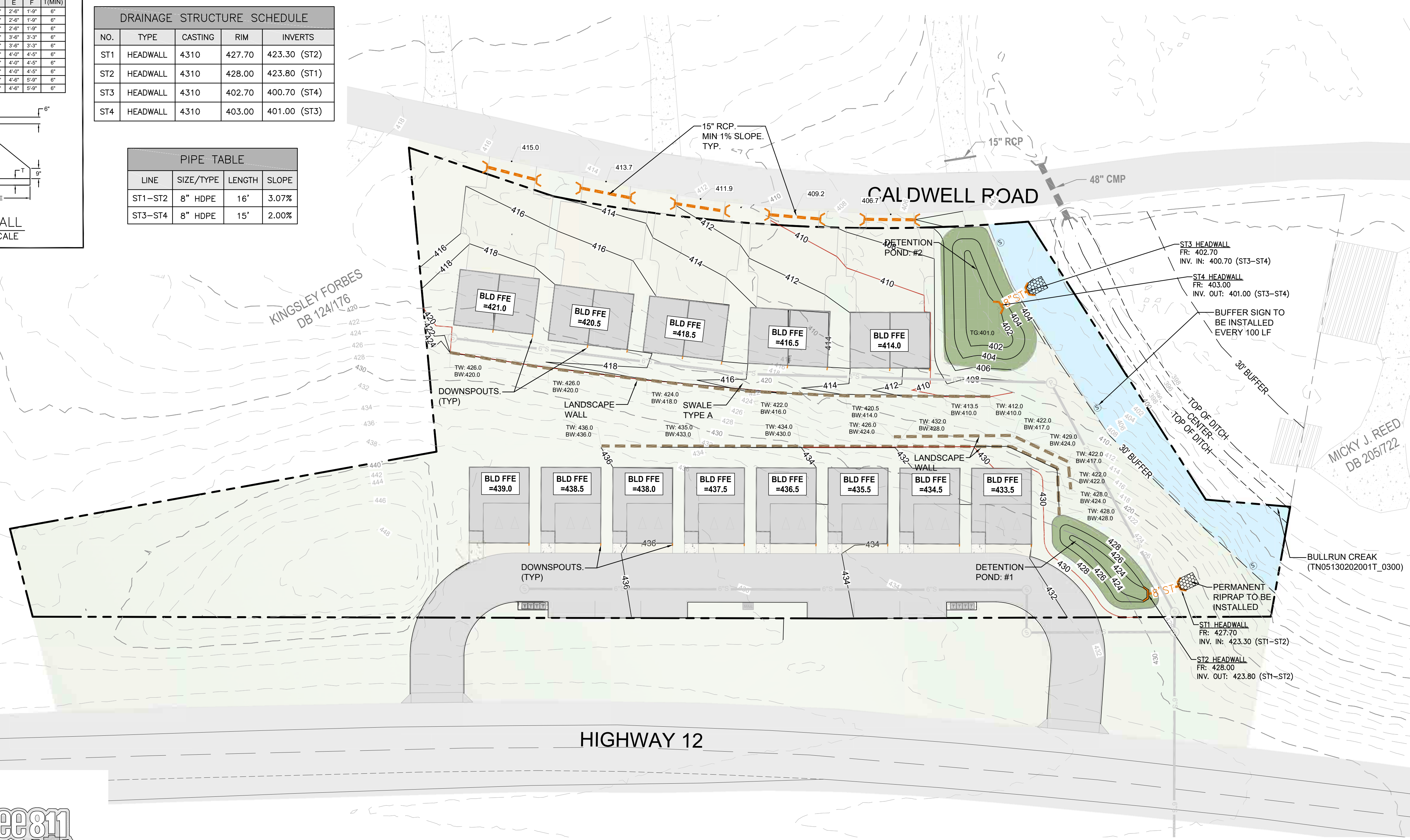
TYPICAL PRECAST HEADWALL
NO SCALE

DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	CASTING	RIM	INVERTS
ST1	HEADWALL	4310	427.70	423.30 (ST2)
ST2	HEADWALL	4310	428.00	423.80 (ST1)
ST3	HEADWALL	4310	402.70	400.70 (ST4)
ST4	HEADWALL	4310	403.00	401.00 (ST3)

PIPE TABLE

LINE	SIZE/TYPE	LENGTH	SLOPE
ST1-ST2	8" HDPE	16'	3.07%
ST3-ST4	8" HDPE	15'	2.00%

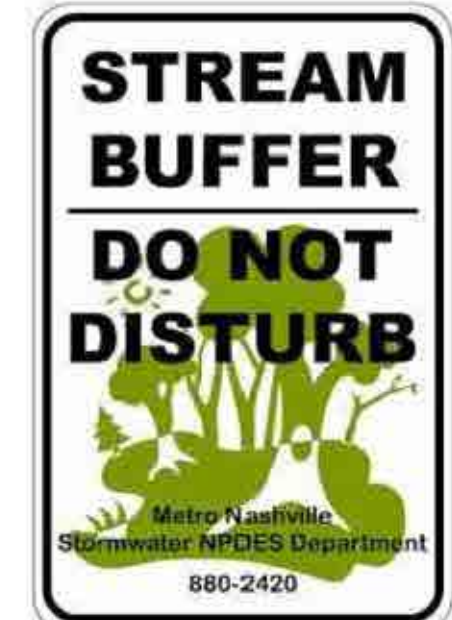


STREAM BUFFER SIGN SPECIFICATIONS:
BUFFER SIGNS MAY BE PURCHASED FROM A VARIETY OF SIGN VENDORS. PLEASE MAKE CERTAIN THE COMPANY IS USING THE METRO APPROVED ARTWORK AND THE FOLLOWING SPECIFICATIONS:

- 12" X 18" WHITE 0.063 ALUMINUM
- BLACK AND KELLEY GREEN COPY
- SINGLE SIDED
- SIGN TO BE MOUNTED TO POST AT TOP AND BOTTOM WITH STAINLESS STEEL HARDWARE.

POST DESCRIPTION:
- 6' GALVANIZED U-CHANNEL OR 4'X4' PRESSURE TREATED LUMBER POST
- 2" BELOW GRADE
- 4" ABOVE GRADE

IF SIGN VENDOR DOES NOT HAVE THE APPROVED ARTWORK, PLEASE HAVE THEM CONTACT REBECCA DOHN @ 615-880-2420 OR REBECCA.DOHN@NASHVILLE.GOV.



NOTE:
BUFFER SIGNS ARE REQUIRED (1 PER 100 LF).

Williams Engineering
Plan - Design - Build
Nashville: 865.679.6992 | mwilliams@wv-design.com



VALLEY POINT HOMES
FOR
JIMMY BROOKS
0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE

DESIGNED BY: MLW
DATE: 3/31/2023
SCALE: 1"=30'
JOB #: 20230210-1

GRADING & DRAINAGE
C4.0





VALLEY POINT HOMES

FOR
JIMMY BROOKS

0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE

DESIGNED BY: MLW
DATE: 3/31/2023
SCALE: 1"=30'
JOB #: 20230210-1

UTILITY PLAN

C5.0

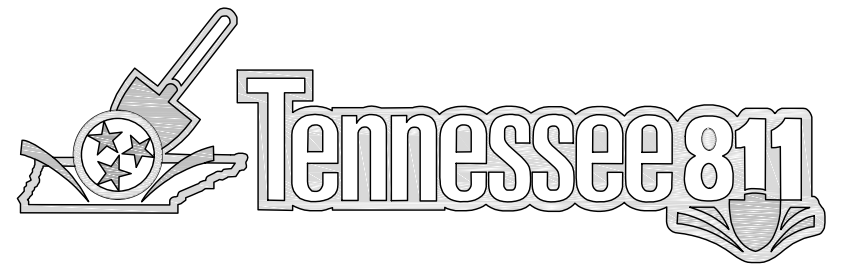
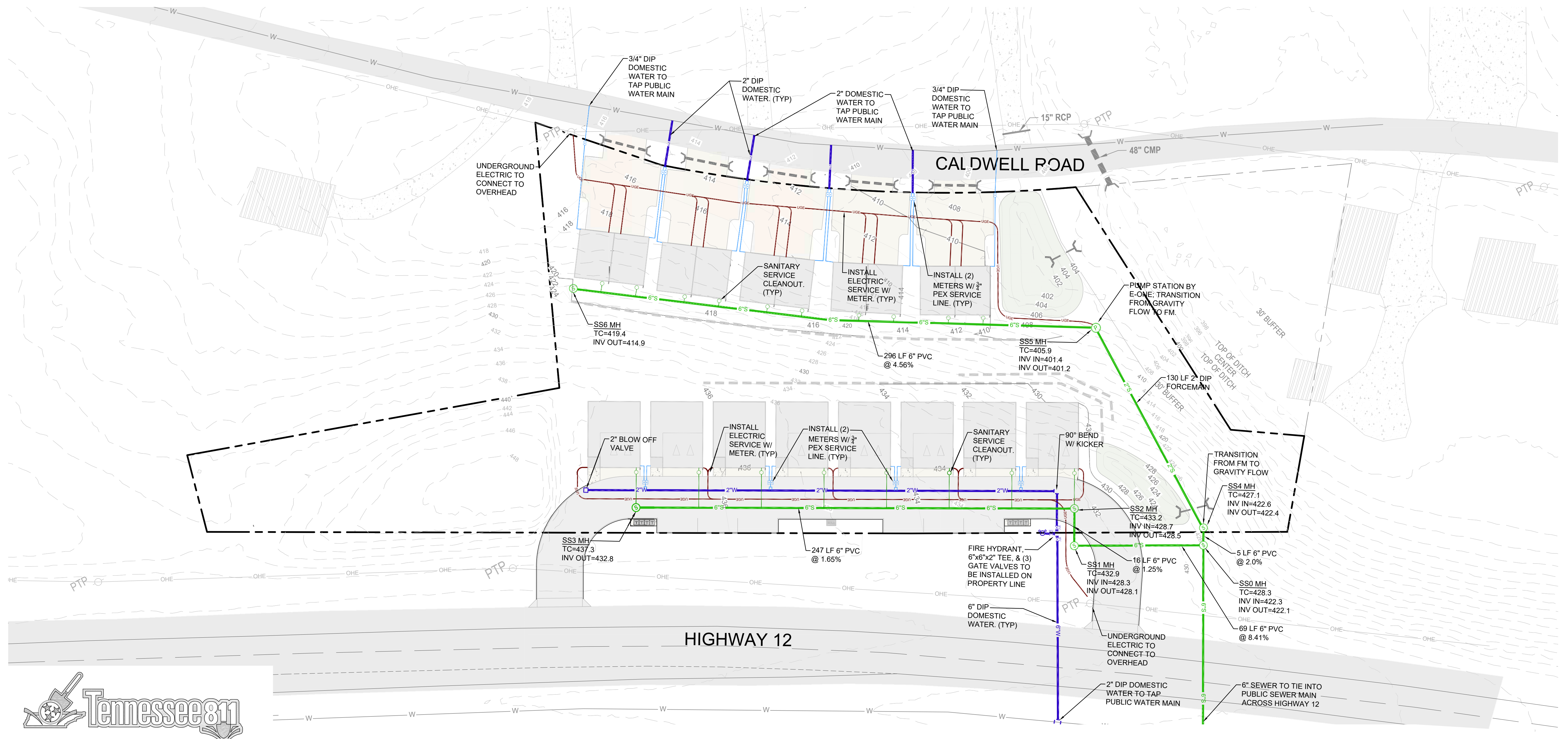
LEGEND

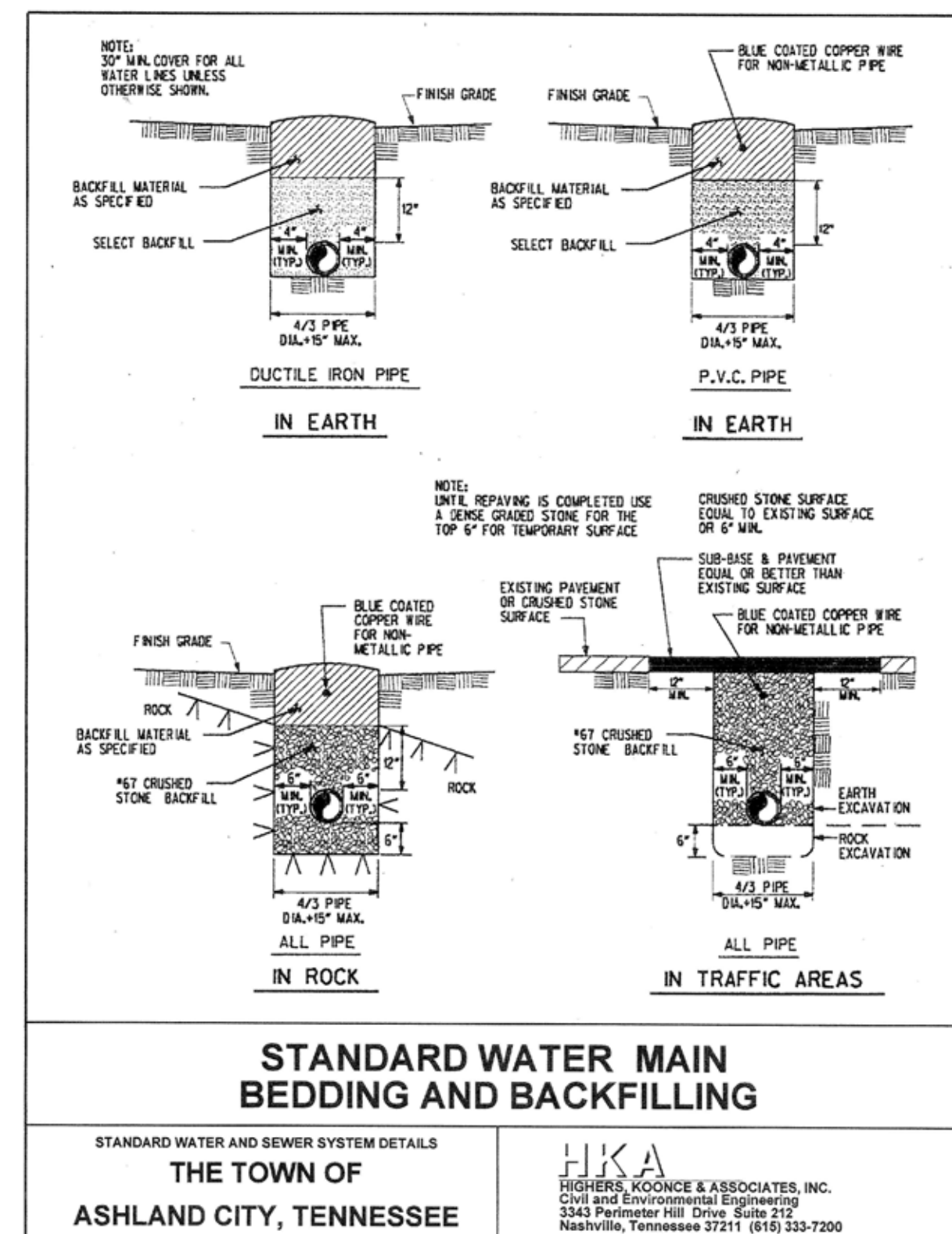
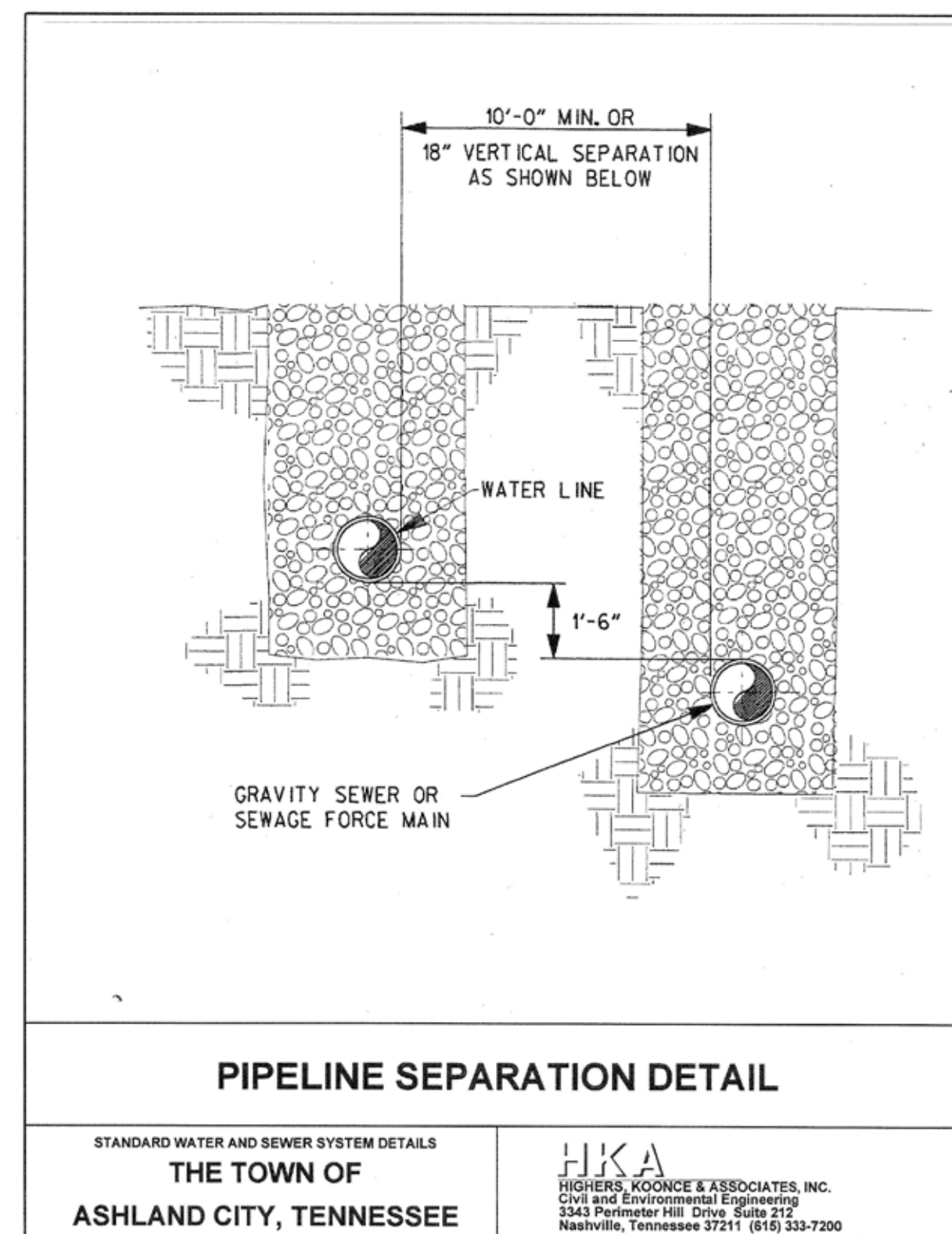
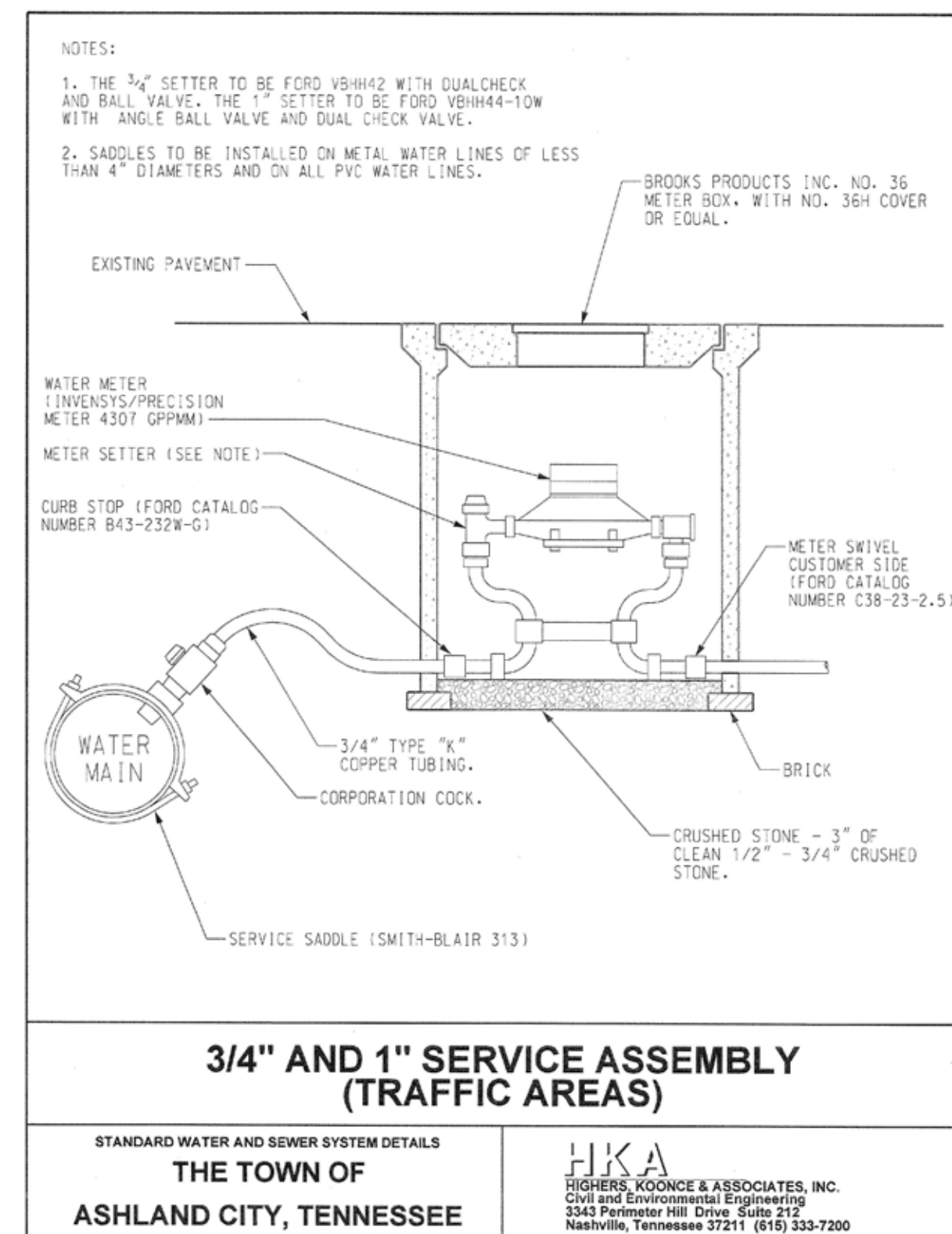
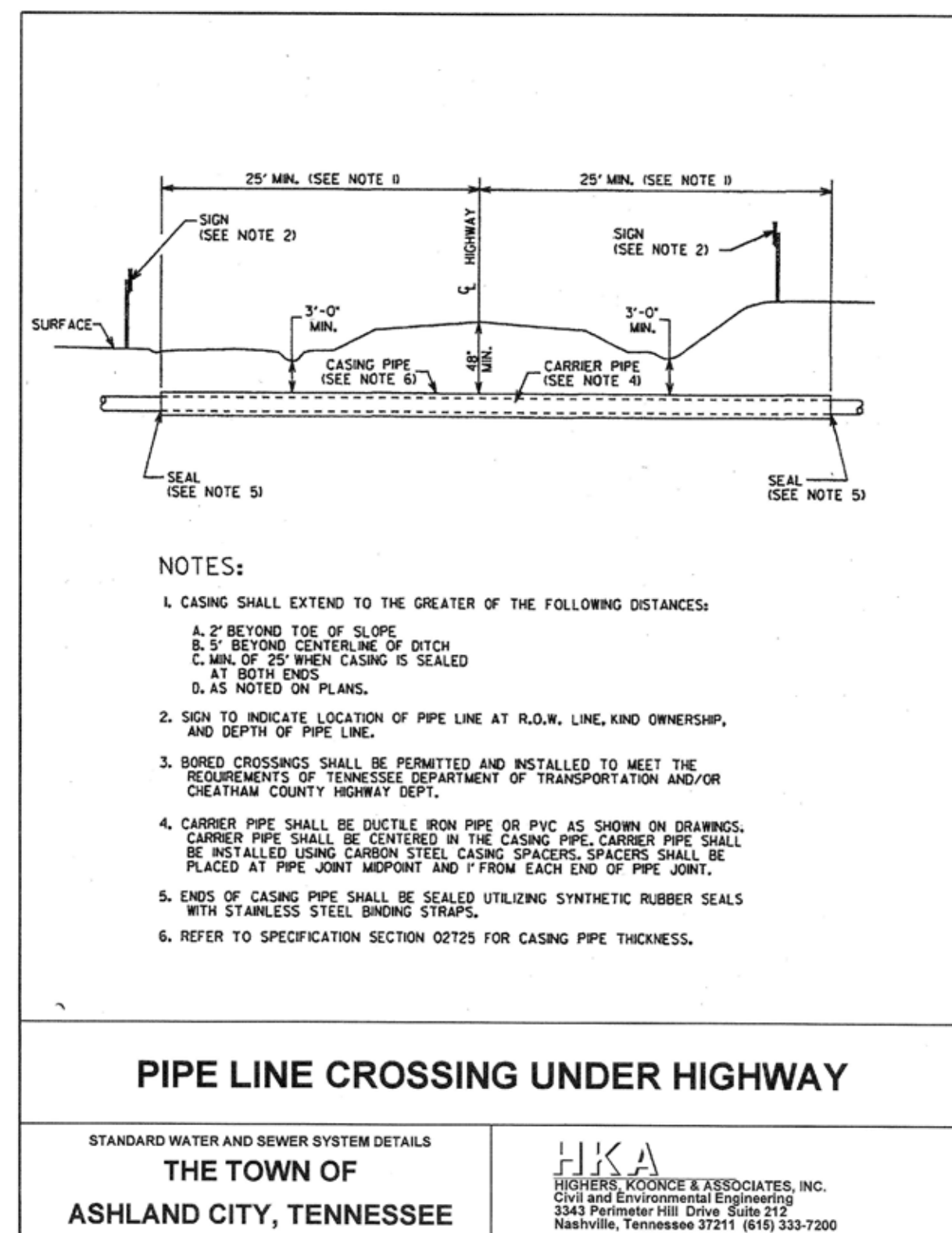
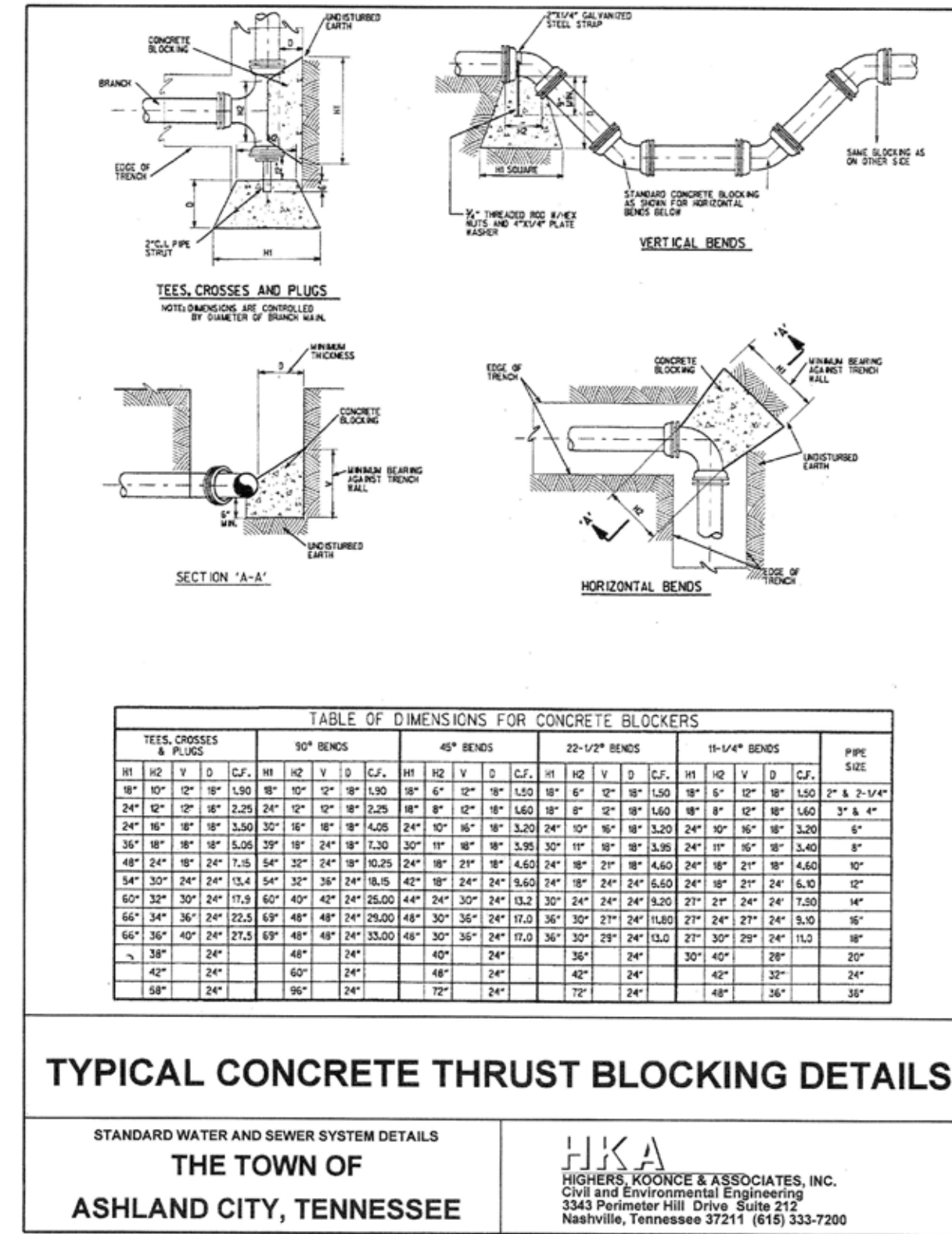
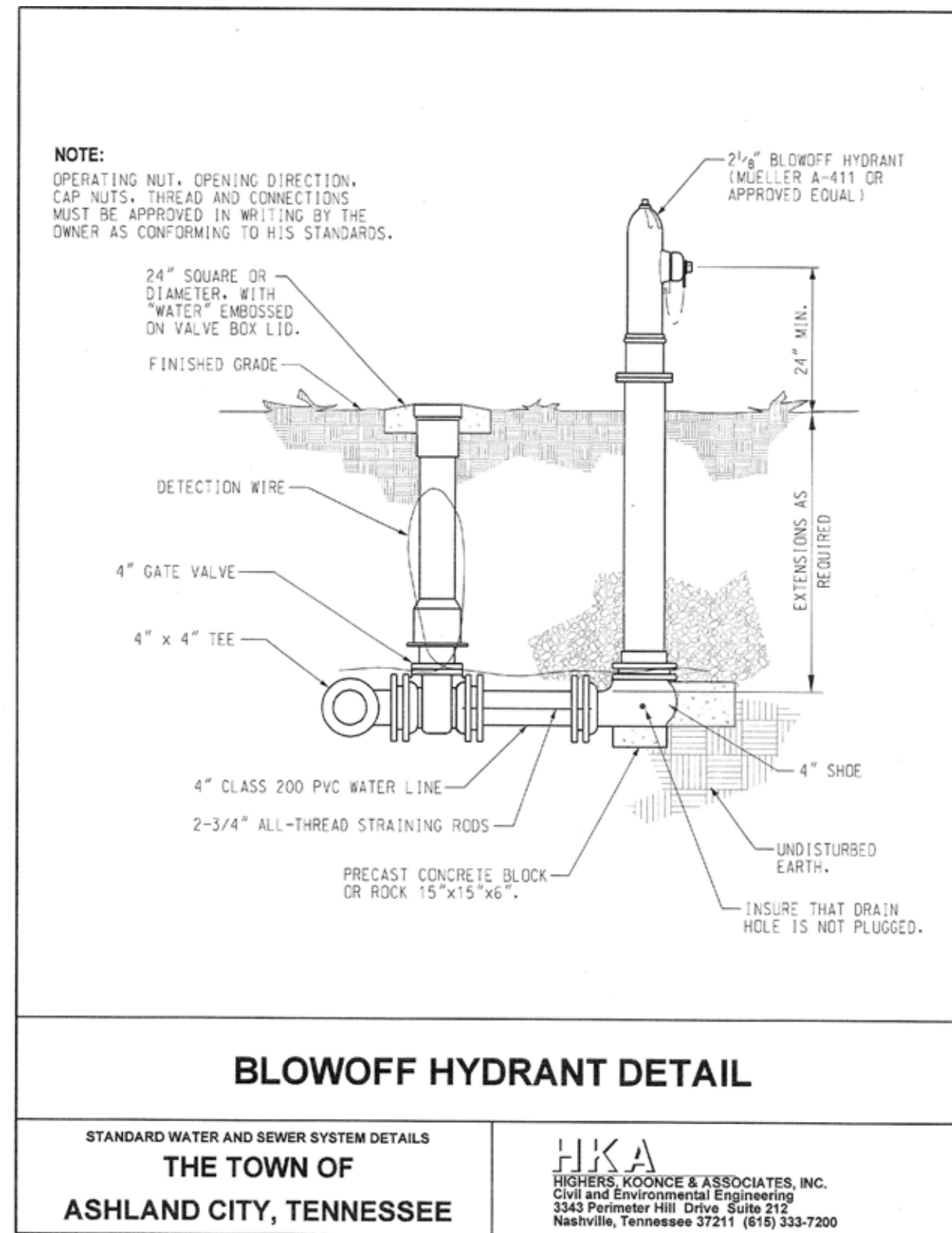
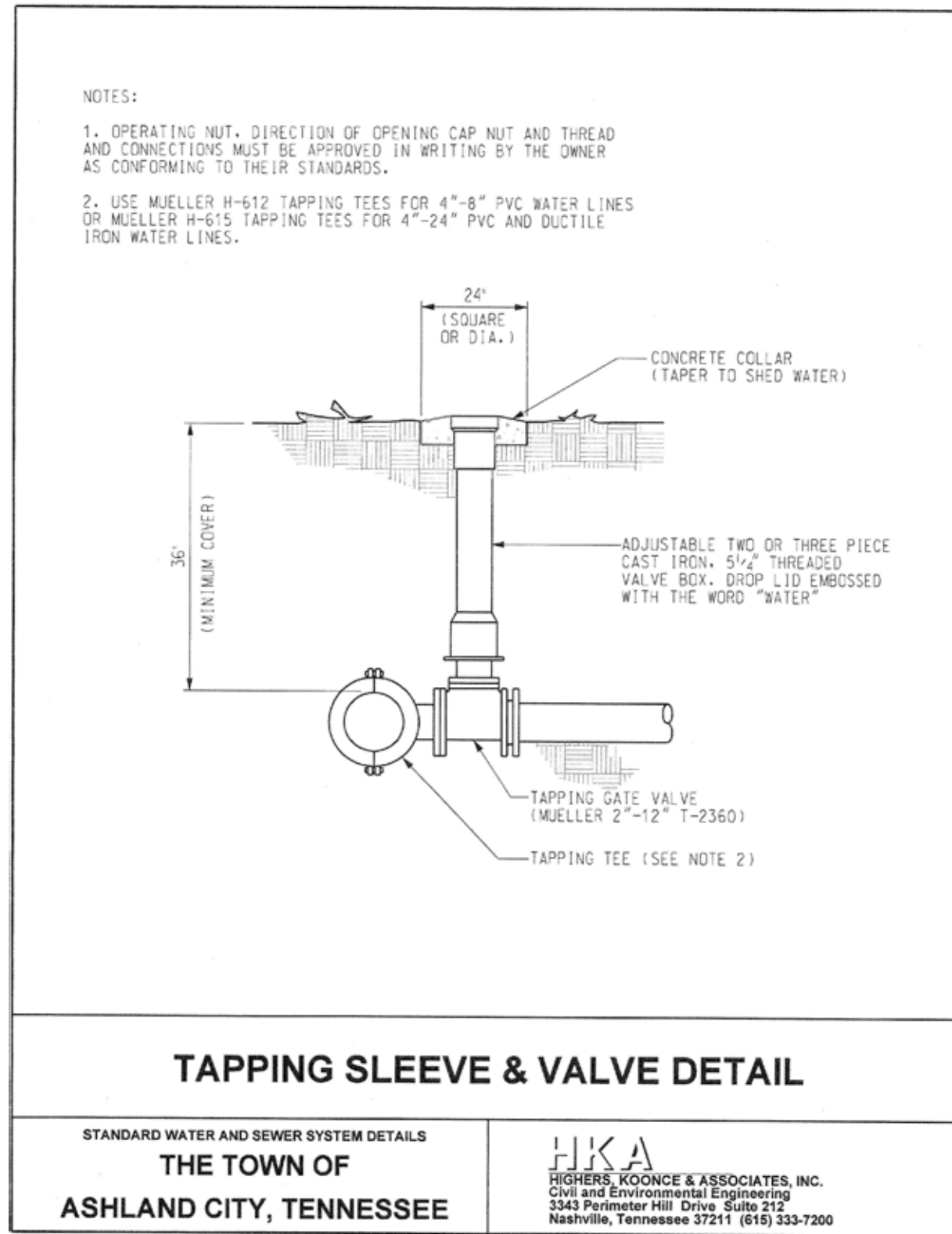
- PROPERTY LINE
- X-X- EXISTING FENCE
- OHE- EXISTING OVERHEAD POWER LINE
- SA-SA- EXISTING SANITARY SEWER
- ST-ST- EXISTING STORM SEWER
- W-W- EXISTING WATER LINE
- 540 EXISTING CONTOUR
- 540 PROPOSED CONTOUR
- PROPOSED STORM SEWER
- ADS NYLOPLAST DOME INLET
- CLEANOUT/OBSERVATION WELL
- JUNCTION BOX
- GRATE INLET
- X'SS--- PROPOSED SANITARY SEWER
- SANITARY MANHOLE
- SANITARY CLEANOUT
- X"W--- PROPOSED WATER
- FIRE HYDRANT
- WATER VALVE
- TAPPING TEE
- UG--- UNDERGROUND ELECTRIC

TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988

0 30 60 120
Feet

GRAPHIC SCALE





VALLEY POINT HOMES
 FOR
 JIMMY BROOKS
 0 CALDWELL ROAD ASHLAND CITY, TN 37015

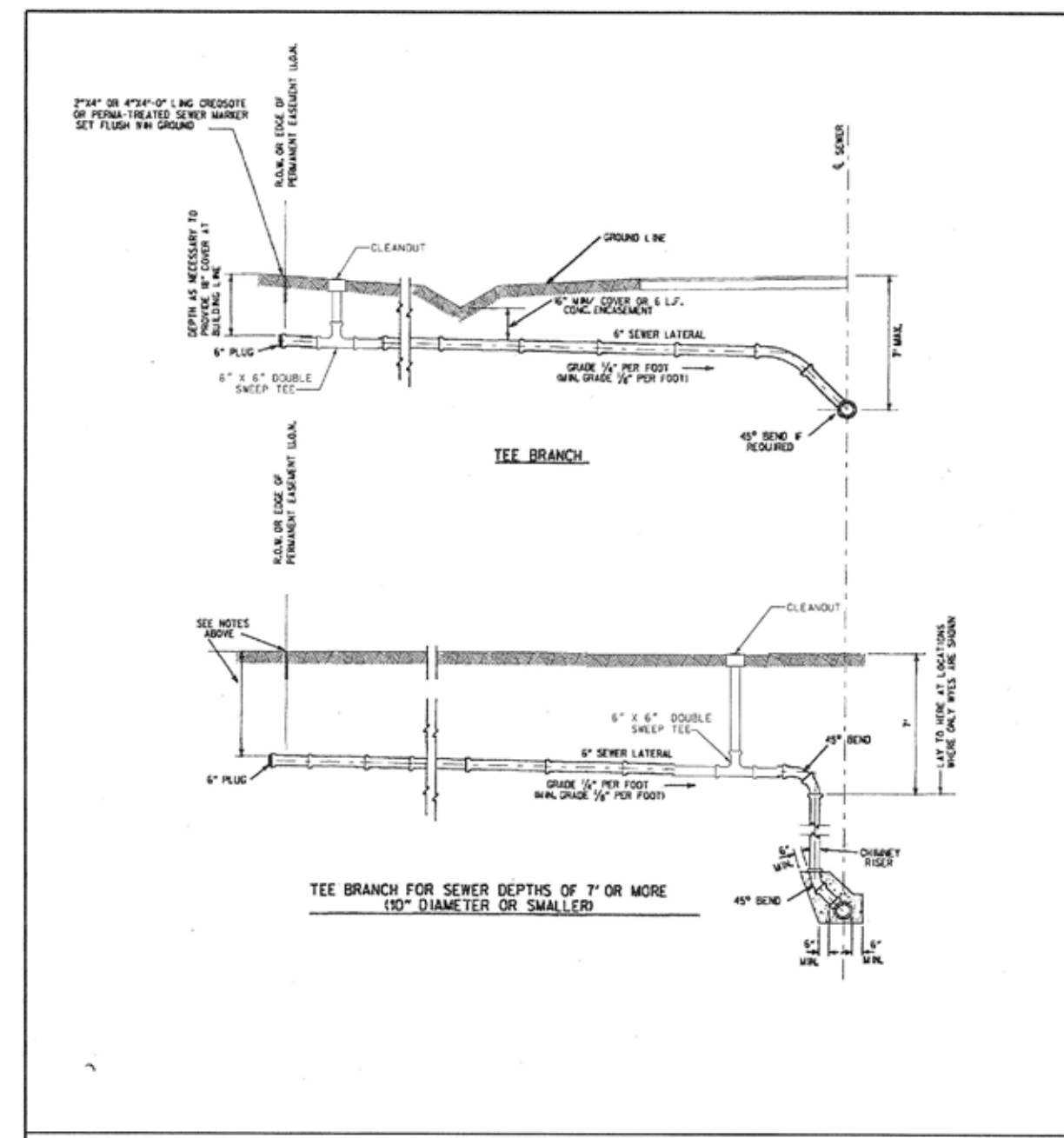
REVISIONS	DATE

DESIGNED BY: MLW
 DATE: 3/31/2023
 SCALE: N/A
 JOB #: 20230210-1

WATER DETAILS

C5.1

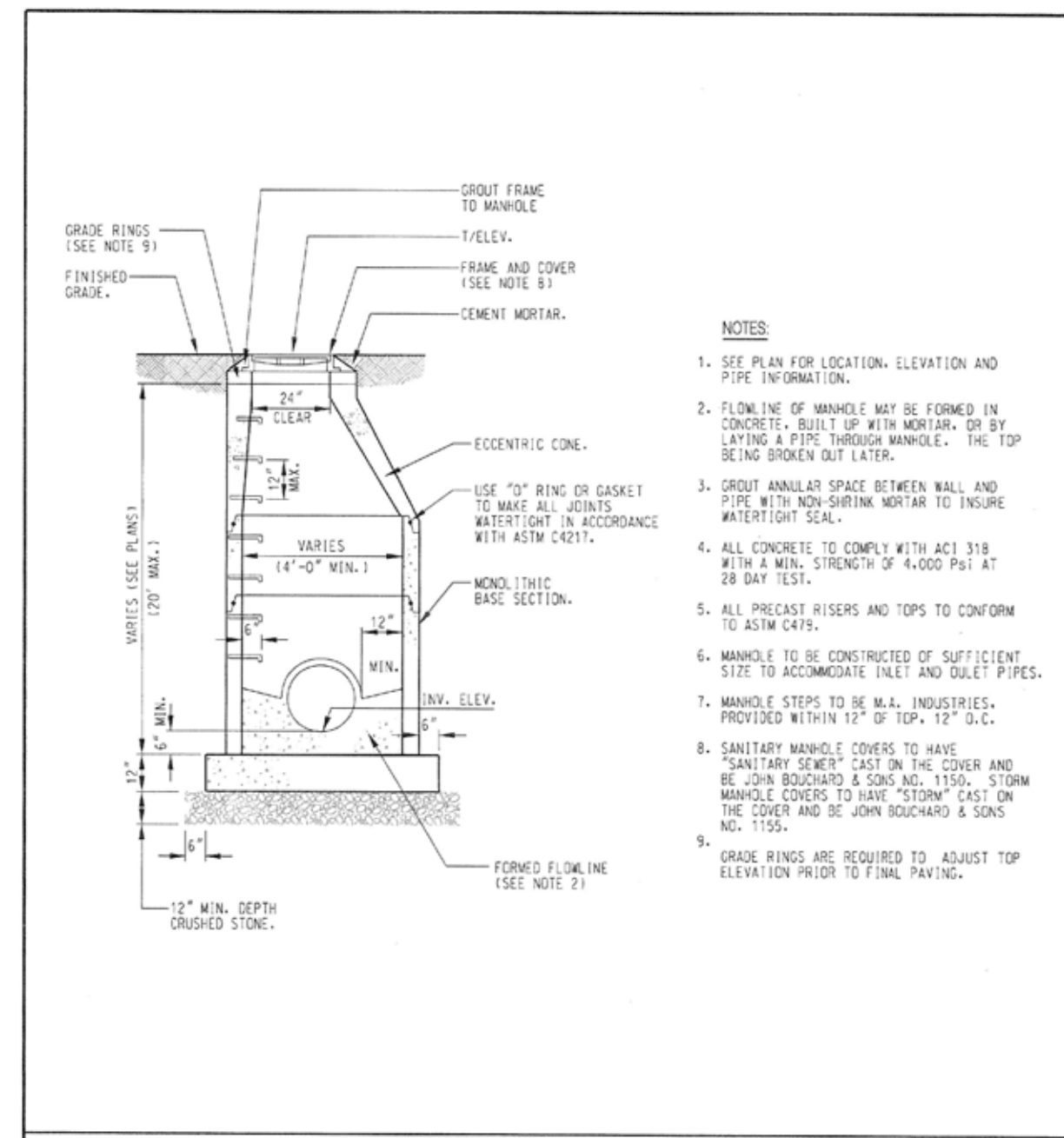




SANITARY SEWER LATERALS

STANDARD WATER AND SEWER SYSTEM DETAILS
THE TOWN OF
ASHLAND CITY, TENNESSEE

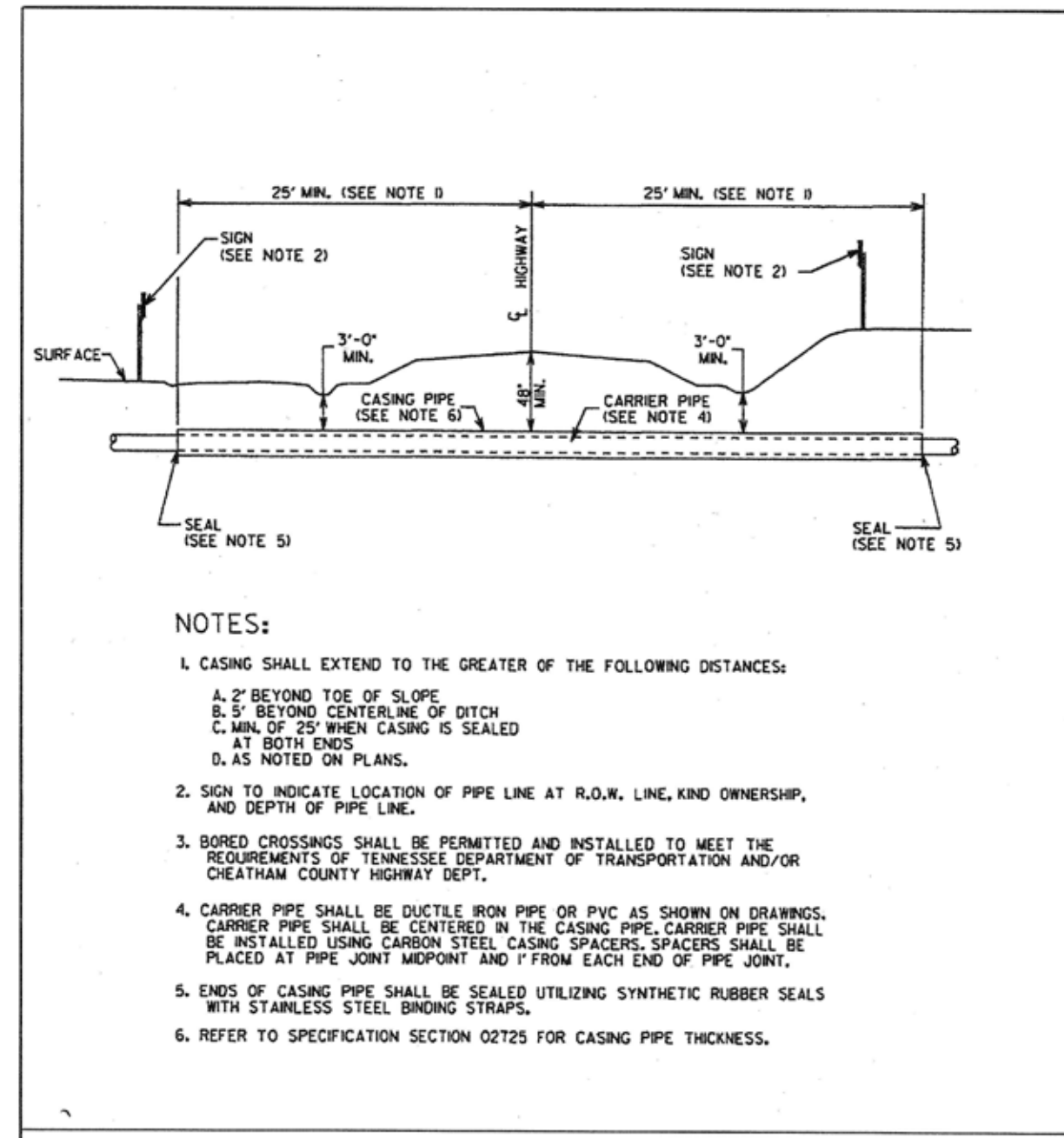
HKA
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 Civil and Environmental Engineering
 3343 Perimeter Hill Drive, Suite 212
 Nashville, Tennessee 37211 (615) 333-7200



STANDARD PRECAST CONCRETE MANHOLE

STANDARD WATER AND SEWER SYSTEM DETAILS
THE TOWN OF
ASHLAND CITY, TENNESSEE

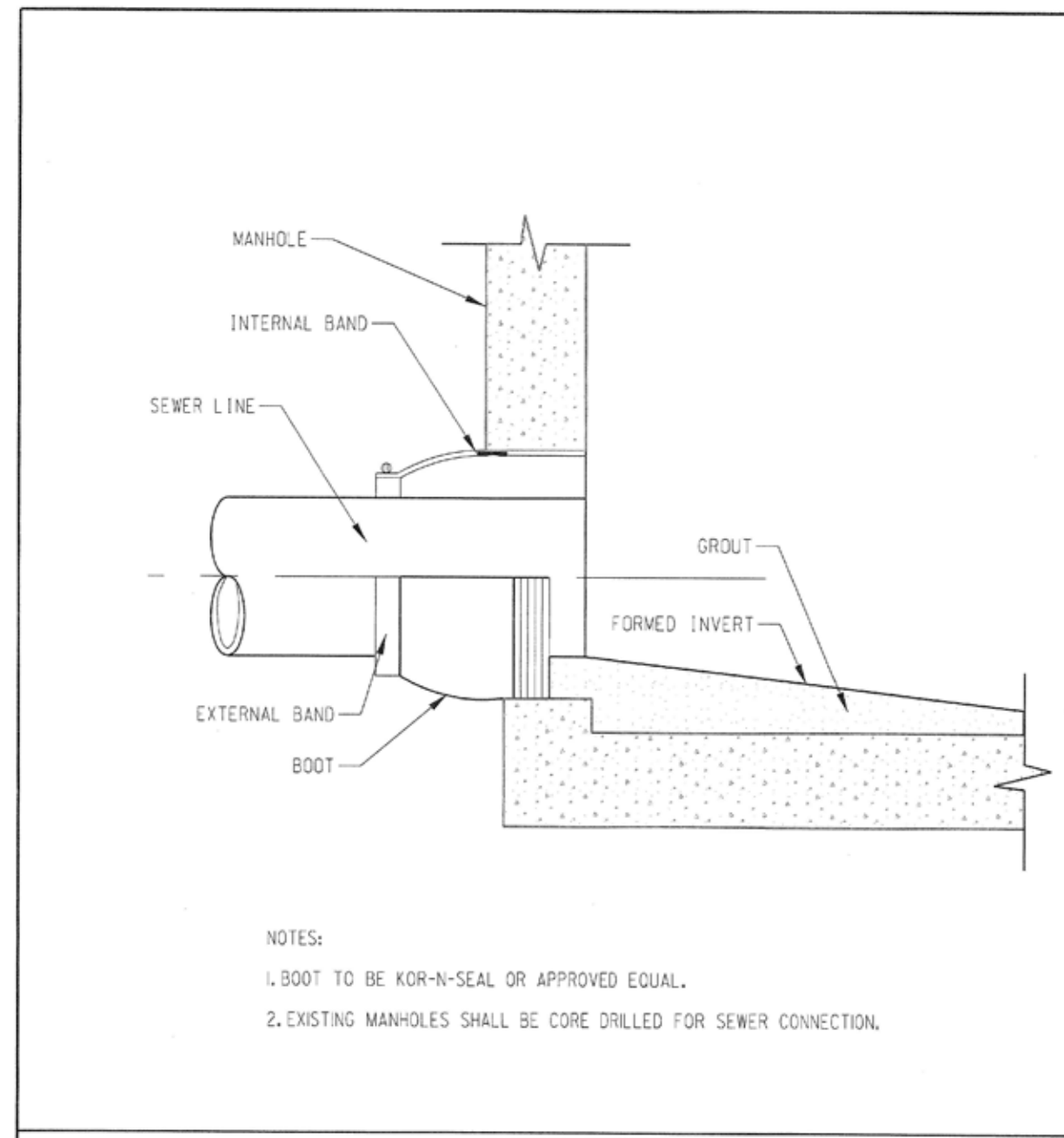
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PIPE LINE CROSSING UNDER HIGHWAY

STANDARD WATER AND SEWER SYSTEM DETAILS
THE TOWN OF
ASHLAND CITY, TENNESSEE

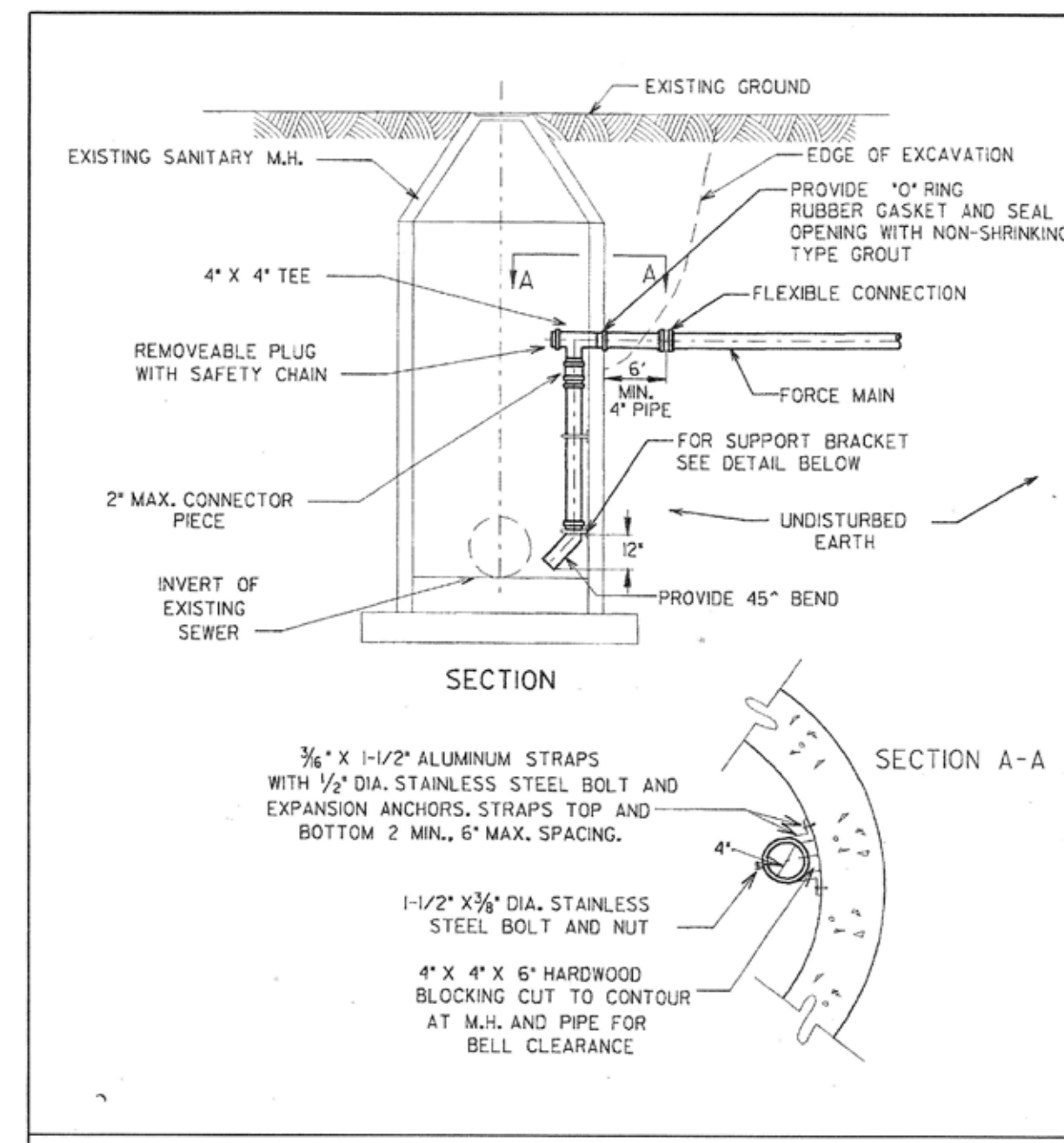
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SEWER LINE-TO-MANHOLE CONNECTION

STANDARD WATER AND SEWER SYSTEM DETAILS
THE TOWN OF
ASHLAND CITY, TENNESSEE

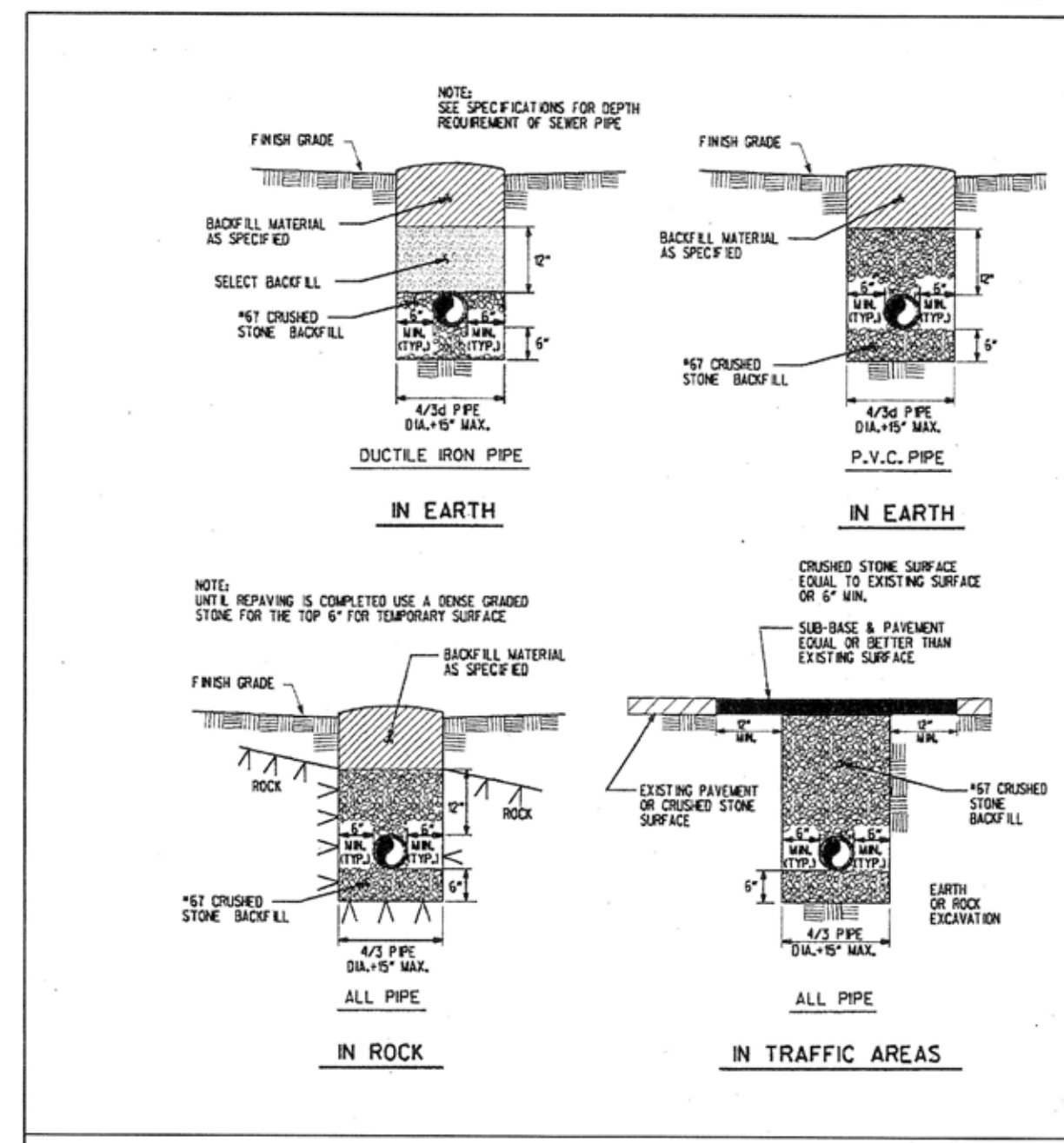
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FORCE MAIN-TO-MANHOLE CONNECTION

STANDARD WATER AND SEWER SYSTEM DETAILS
THE TOWN OF
ASHLAND CITY, TENNESSEE

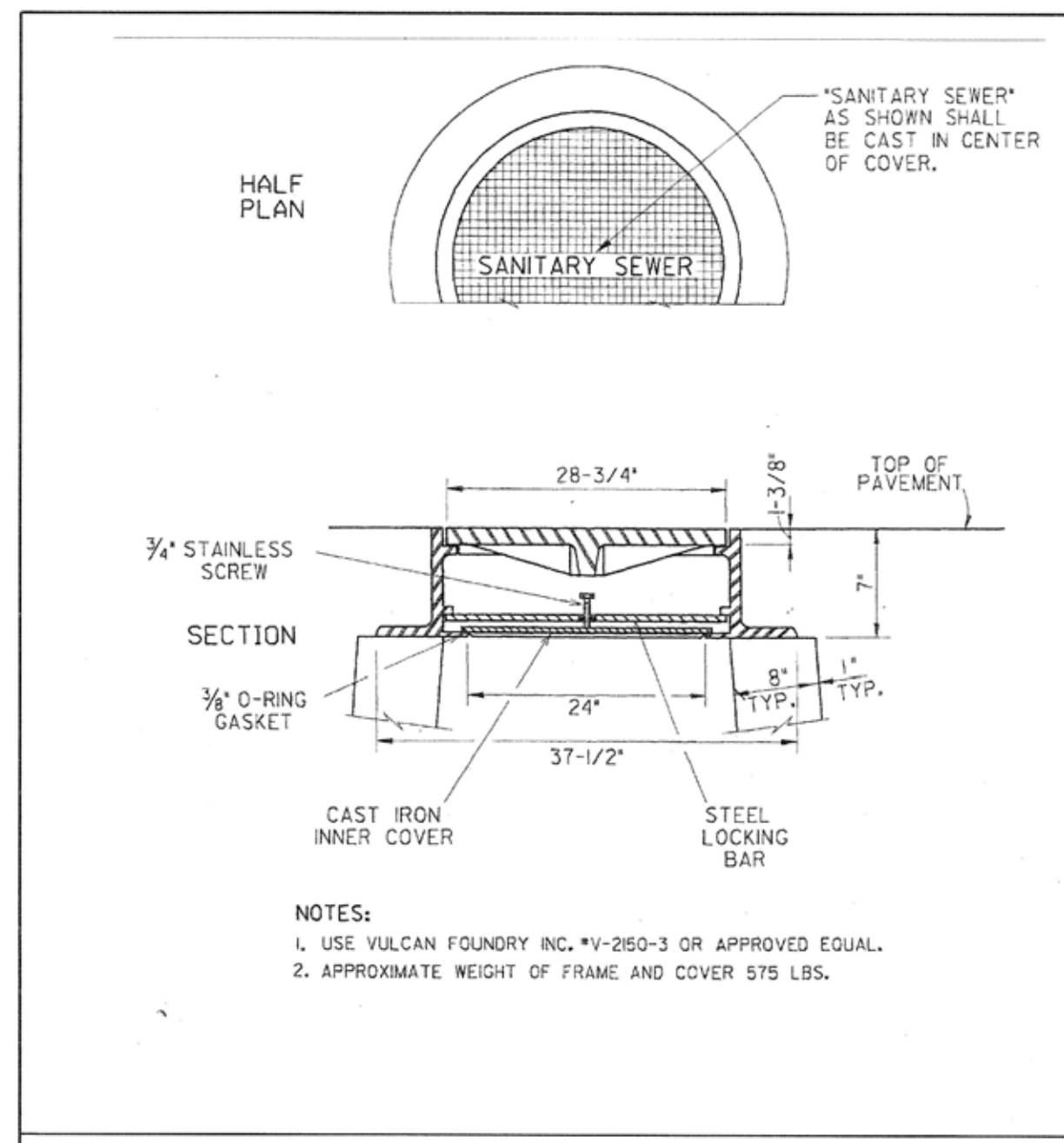
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STANDARD GRAVITY SEWER BEDDING AND BACKFILLING

STANDARD WATER AND SEWER SYSTEM DETAILS
THE TOWN OF
ASHLAND CITY, TENNESSEE

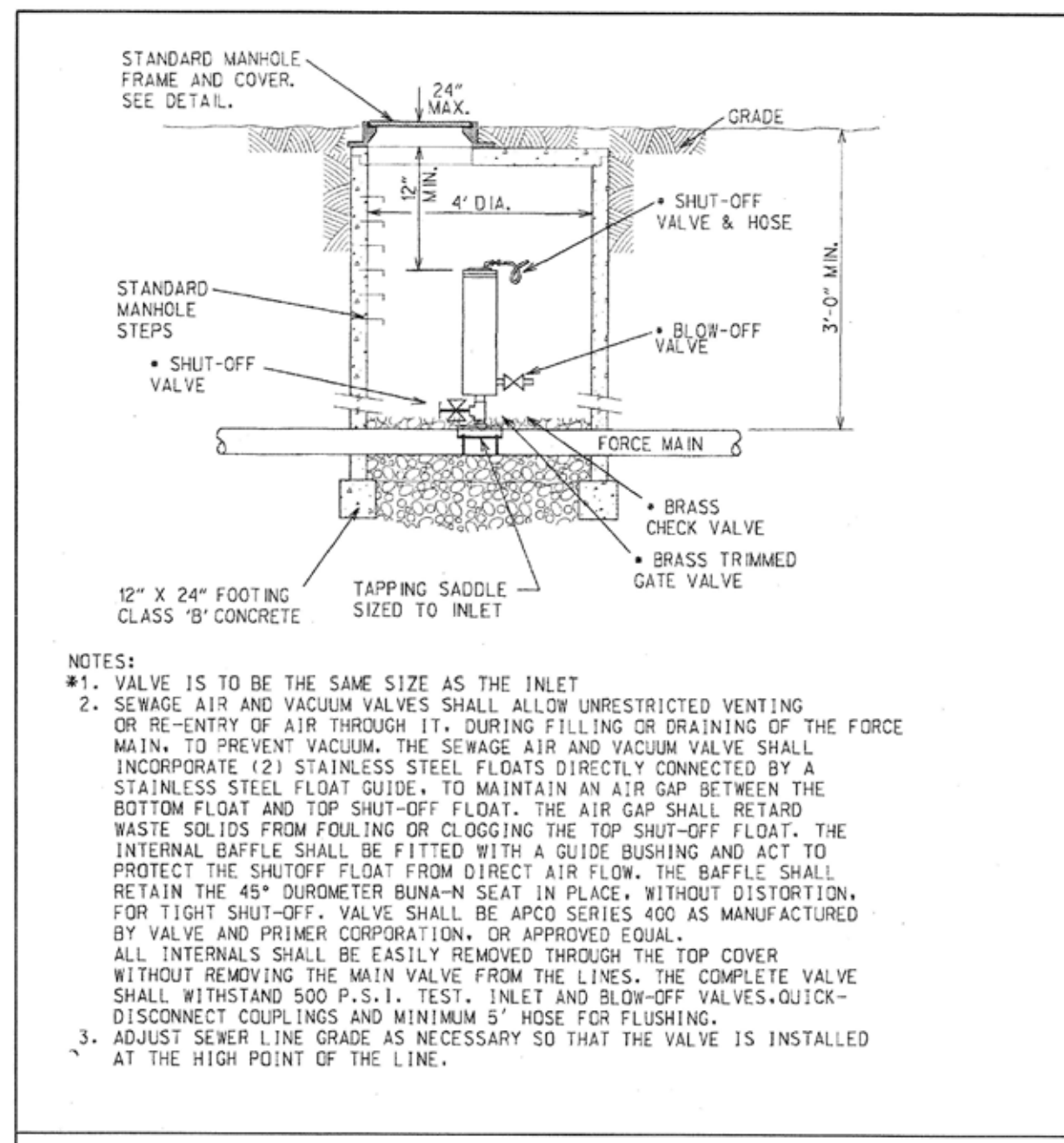
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WATERTIGHT MANHOLE FRAME AND COVER

STANDARD WATER AND SEWER SYSTEM DETAILS
THE TOWN OF
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SANITARY FORCE MAIN AIR RELEASE VALVE

STANDARD WATER AND SEWER SYSTEM DETAILS
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 Nashville, Tennessee 37211 (615) 333-7200



VALLEY POINT HOMES
 FOR
JIMMY BROOKS
 0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE

DESIGNED BY: MLW
 DATE: 3/31/2023
 SCALE: N/A
 JOB #: 20230210-1

SEWER DETAILS

C5.2

HYDROLOGY REPORT

Valley Point Homes

0 Caldwell Rd
Ashland City, TN 37015
Tax Map / Parcel: 64/11.01



Prepared By:



807 18th Ave South, Floor 10
Nashville, TN 37203
P: 865-679-59952

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- I. Project Narrative & Detention Summary**
- II. Pre-Developed & Post-Developed Map**
- III. Detention Hydrographs Report**
- IV. USDA Soil Report**

I. Project Narrative & Detention Summary

The proposed building site is located at 0 Caldwell Rd Ashland City, TN 37015 where (18) units are to be constructed.

Pre Development

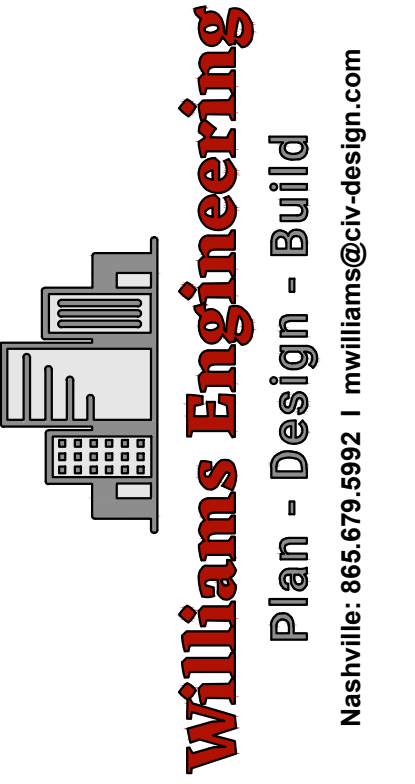
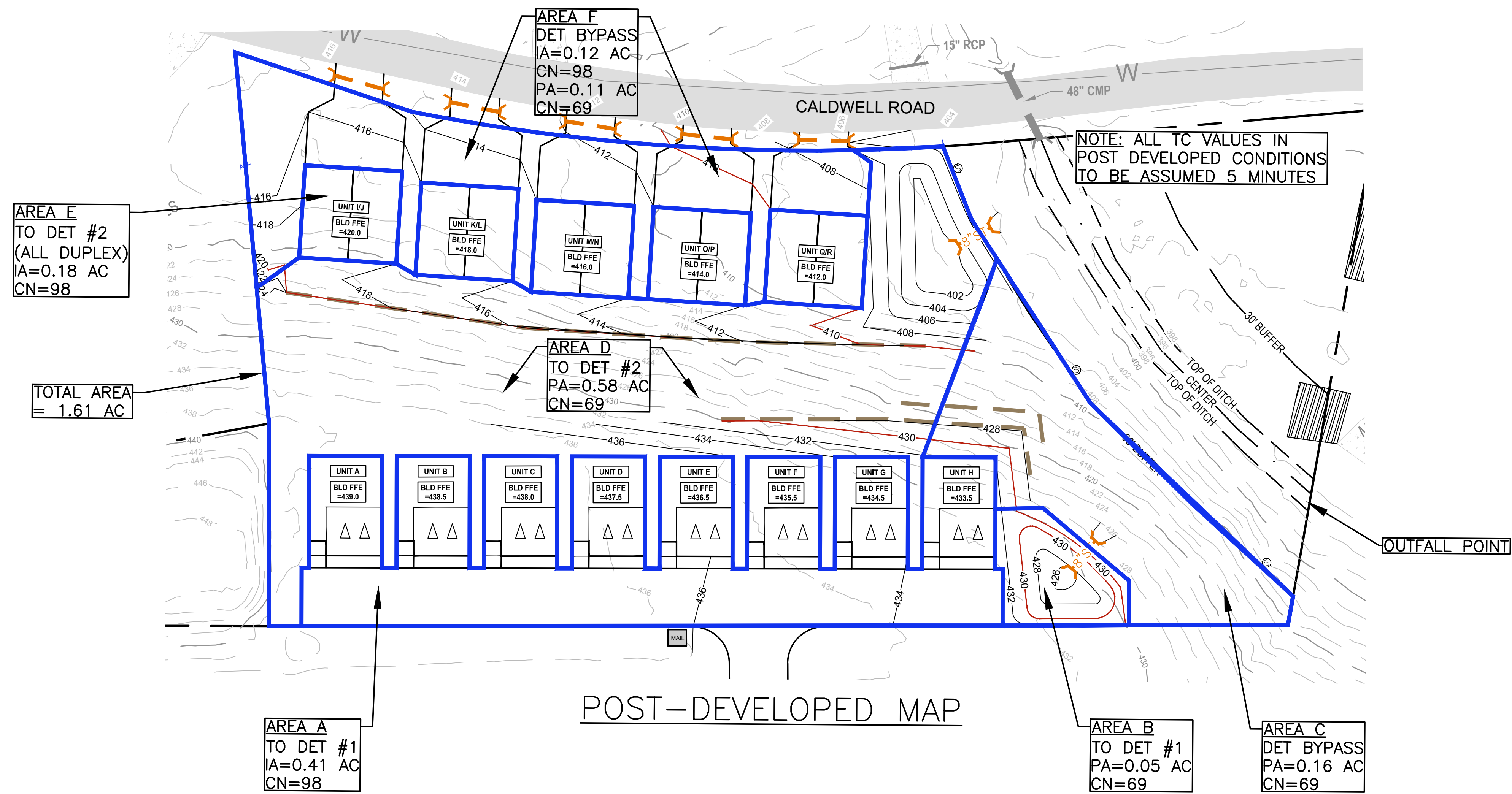
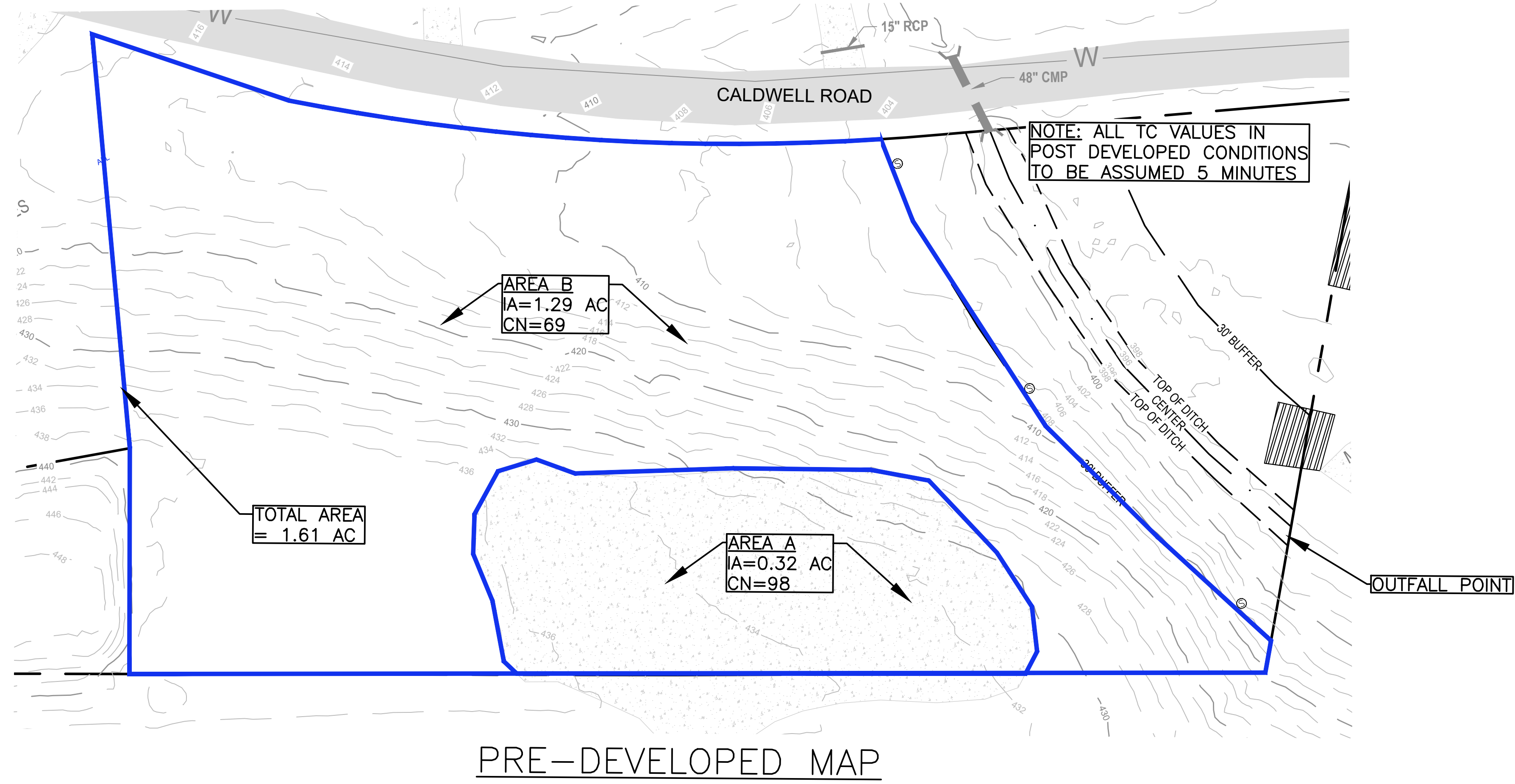
The total disturbed area of the site is 1.61 AC, in which 0.32 AC of existing gravel is present. The existing storm outfall point is located at the south east corner of the site. Per USDA web soil survey, the site is predominately comprised of Type B Soil. In existing conditions Time of Concentration was found to be a minimum of 5 minutes and this can be seen on the existing drainage map.

Post Development

In post developed conditions, additional impervious area has been added to the site. In order to prevent an increase in storm runoff per storm intensity, Post-Developed peak flows must be less than that in Pre-Developed conditions. Two detention ponds have been provided to mitigate runoff. Detention Pond #1 is located at the southeast corner of the site, and Detention Pond #2 is located at the northeast corner of the site. A Pre vs Post storm map has been provided in this document, along with a hydrograph report to show Pre-Developed flow is less than Post-Developed flow. A 5 minute Time of concentration was used as a conservative value for Post Developed conditions. In consideration of the said values, Post Developed flow rates are less than existing conditions for the 2, 5, 10, 25, 50, & 100-yr storm frequencies as seen in the hydrograph report. In conclusion, stormwater has been mitigated for the subject proposed construction based on the Metro Stormwater manual.

Valley Point Homes						
SUMMARY – PRE-DEVELOPED VS POST-DEVELOPED DETENTION						
	2-YR	5-YR	10-YR	25-YR	50-YR	100-YR
Pre-Developed Flow (cfs)	3.36	5.58	7.15	9.24	10.81	12.37
Pre-Developed Flow (cfs)	3.19	4.03	4.58	5.24	5.70	6.14

II. Pre-Developed & Post-Developed Map



VALLEY POINT HOMES
FOR
JIMMY BROOKS
0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

DESIGNED BY: MLW
DATE: 6/10/2021
SCALE: PER SCALE
JOB #: 20230210-1

PRE-DEVELOPED
POST-DEVELOPED
MAPS

DET

III. Detention Hydrographs Report

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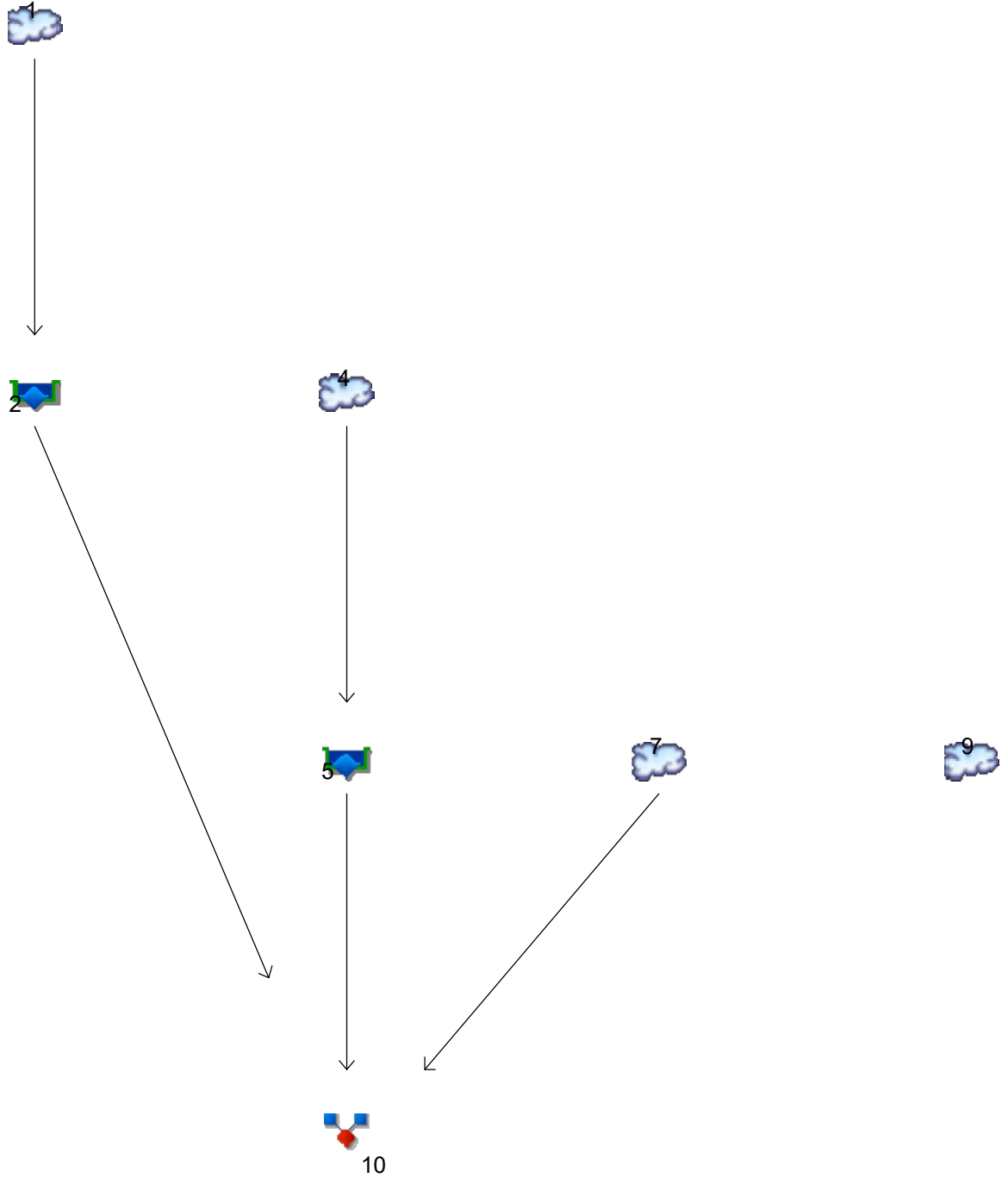
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Legend

Hyd.	Origin	Description
1	SCS Runoff	To Det #1
2	Reservoir	After Det #1
4	SCS Runoff	To Det #2
5	Reservoir	After Det #2
7	SCS Runoff	Det Bypass
9	SCS Runoff	Pre-Developed
10	Combine	Post-Developed

Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	-----	-----	2.009	-----	2.727	3.196	3.791	4.231	4.664	To Det #1
2	Reservoir	1	-----	1.531	-----	1.772	1.933	2.073	2.175	2.275	After Det #1
4	SCS Runoff	-----	-----	1.663	-----	2.729	3.487	4.478	5.224	5.965	To Det #2
5	Reservoir	4	-----	1.046	-----	1.364	1.569	1.819	1.973	2.079	After Det #2
7	SCS Runoff	-----	-----	0.712	-----	1.075	1.317	1.626	1.855	2.080	Det Bypass
9	SCS Runoff	-----	-----	3.355	-----	5.580	7.152	9.236	10.81	12.37	Pre-Developed
10	Combine	2, 5, 7,	-----	3.192	-----	4.032	4.584	5.240	5.700	6.136	Post-Developed

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

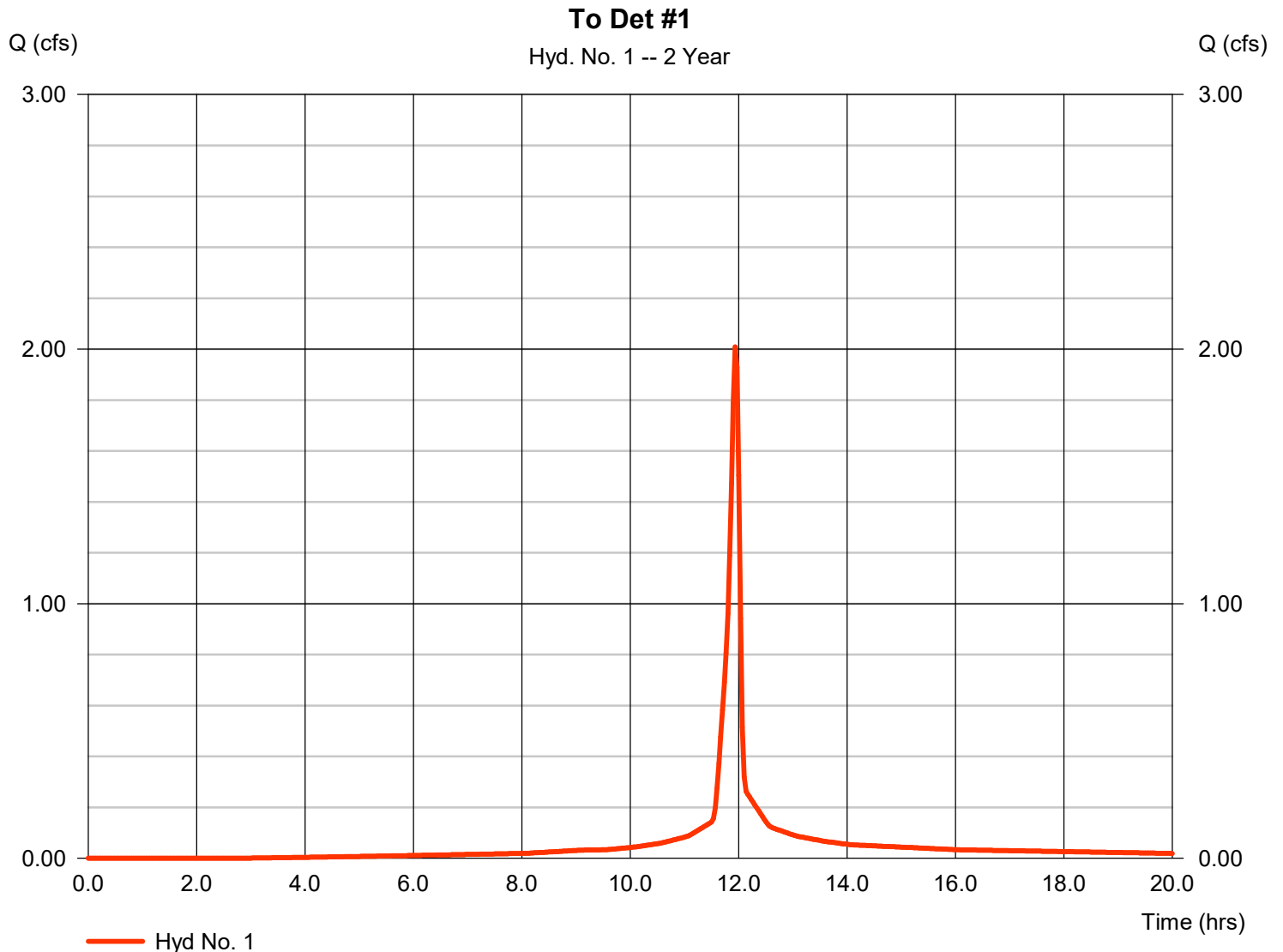
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	2.009	2	716	4,432	-----	-----	-----	To Det #1
2	Reservoir	1.531	2	720	4,432	1	427.99	363	After Det #1
4	SCS Runoff	1.663	2	718	3,326	-----	-----	-----	To Det #2
5	Reservoir	1.046	2	722	3,324	4	402.11	547	After Det #2
7	SCS Runoff	0.712	2	716	1,442	-----	-----	-----	Det Bypass
9	SCS Runoff	3.355	2	718	6,709	-----	-----	-----	Pre-Developed
10	Combine	3.192	2	718	9,198	2, 5, 7,	-----	-----	Post-Developed

Hyd. No. 1

To Det #1

Hydrograph type	= SCS Runoff	Peak discharge	= 2.009 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 4,432 cuft
Drainage area	= 0.460 ac	Curve number	= 95*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.39 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.410 x 98) + (0.050 x 69)] / 0.460

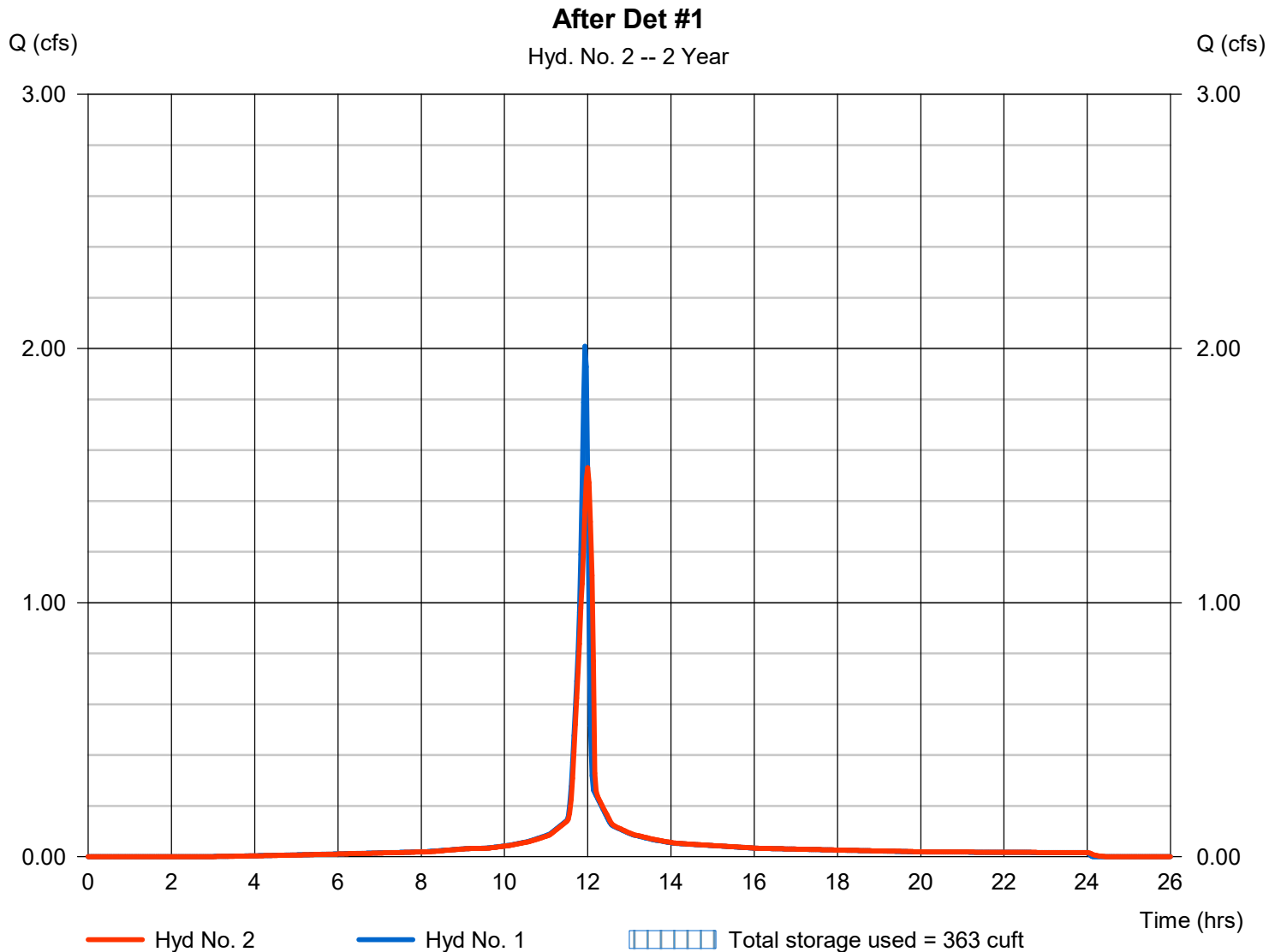


Hyd. No. 2

After Det #1

Hydrograph type	= Reservoir	Peak discharge	= 1.531 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 4,432 cuft
Inflow hyd. No.	= 1 - To Det #1	Max. Elevation	= 427.99 ft
Reservoir name	= Det Pond #1	Max. Storage	= 363 cuft

Storage Indication method used.



Pond No. 1 - Det Pond #1

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 426.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	426.00	50	0	0
1.00	427.00	165	102	102
2.00	428.00	375	263	365
3.00	429.00	680	520	885
4.00	430.00	1,030	849	1,734

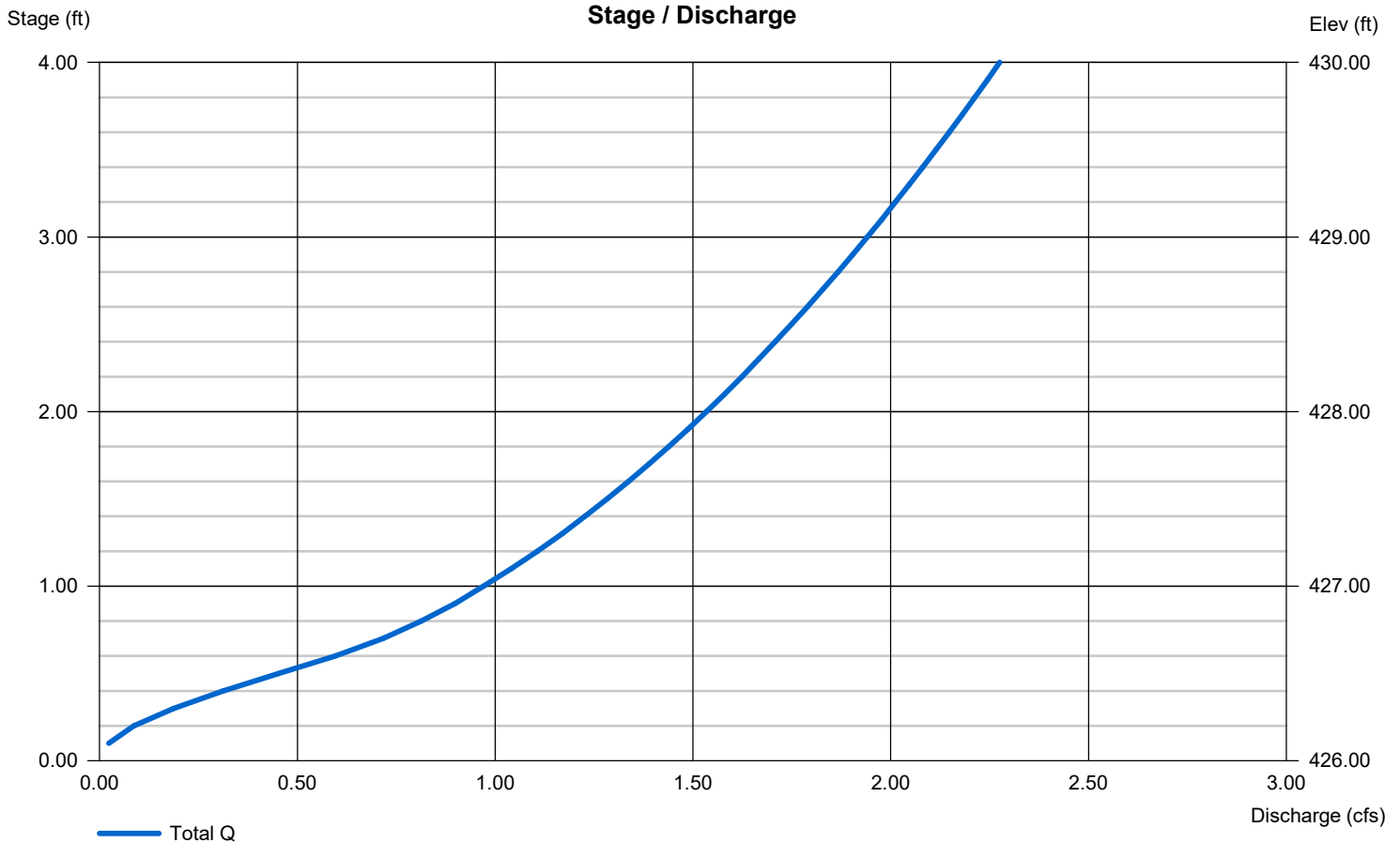
Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 8.00	8.00	Inactive	Inactive
Span (in)	= 8.00	8.00	0.00	0.00
No. Barrels	= 1	1	0	0
Invert El. (ft)	= 426.00	426.00	0.00	0.00
Length (ft)	= 15.00	1.00	0.00	0.00
Slope (%)	= 2.00	2.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	Inactive	Inactive	Inactive	0.00
Crest El. (ft)	= 457.50	456.10	457.75	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= 1	Rect	Ciplti	---
Multi-Stage	= Yes	Yes	No	No
Exfil.(in/hr)	= 0.000 (by Wet area)			
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

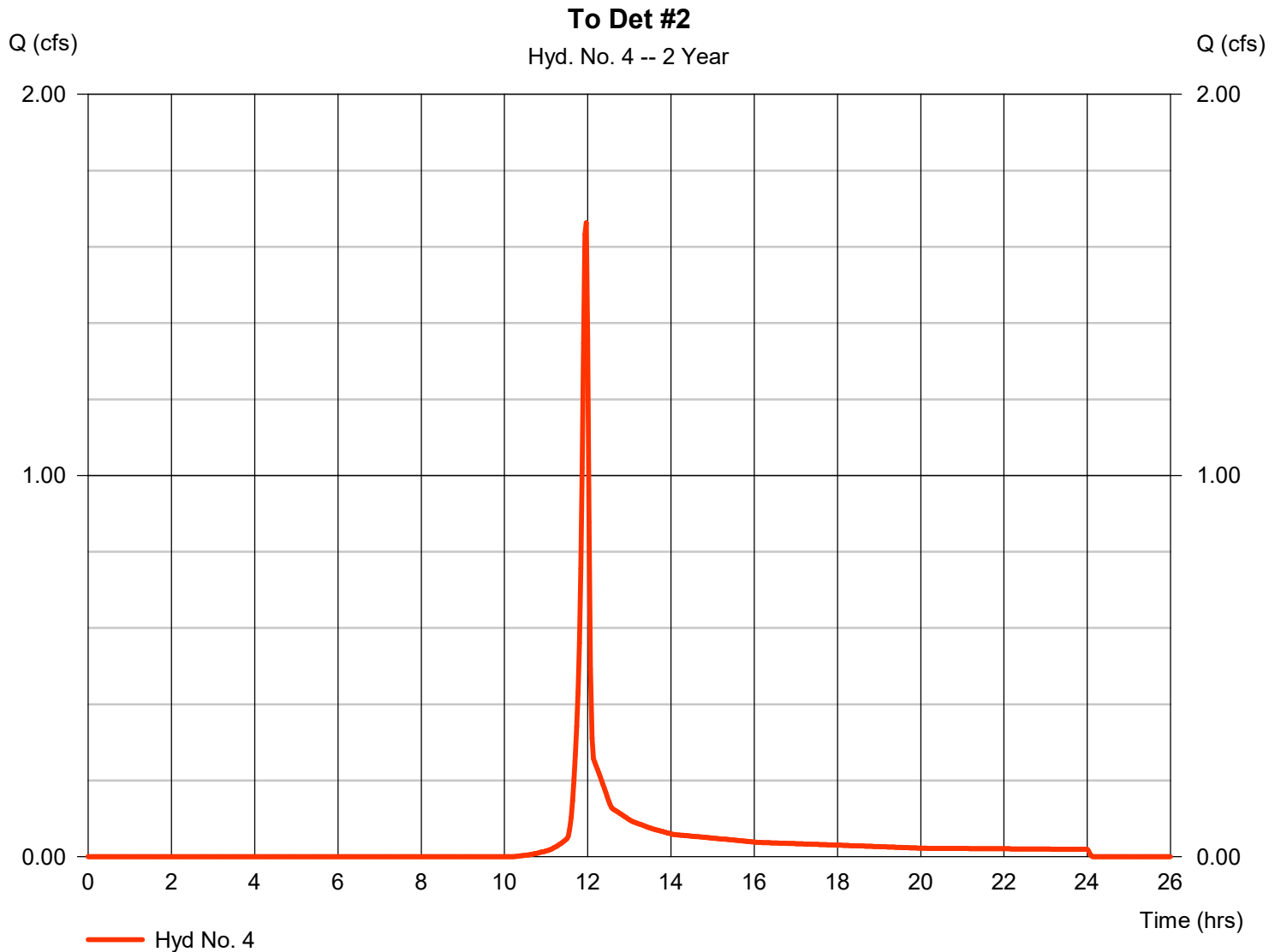


Hyd. No. 4

To Det #2

Hydrograph type	= SCS Runoff	Peak discharge	= 1.663 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 3,326 cuft
Drainage area	= 0.760 ac	Curve number	= 76*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.39 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.580 x 69) + (0.180 x 98)] / 0.760

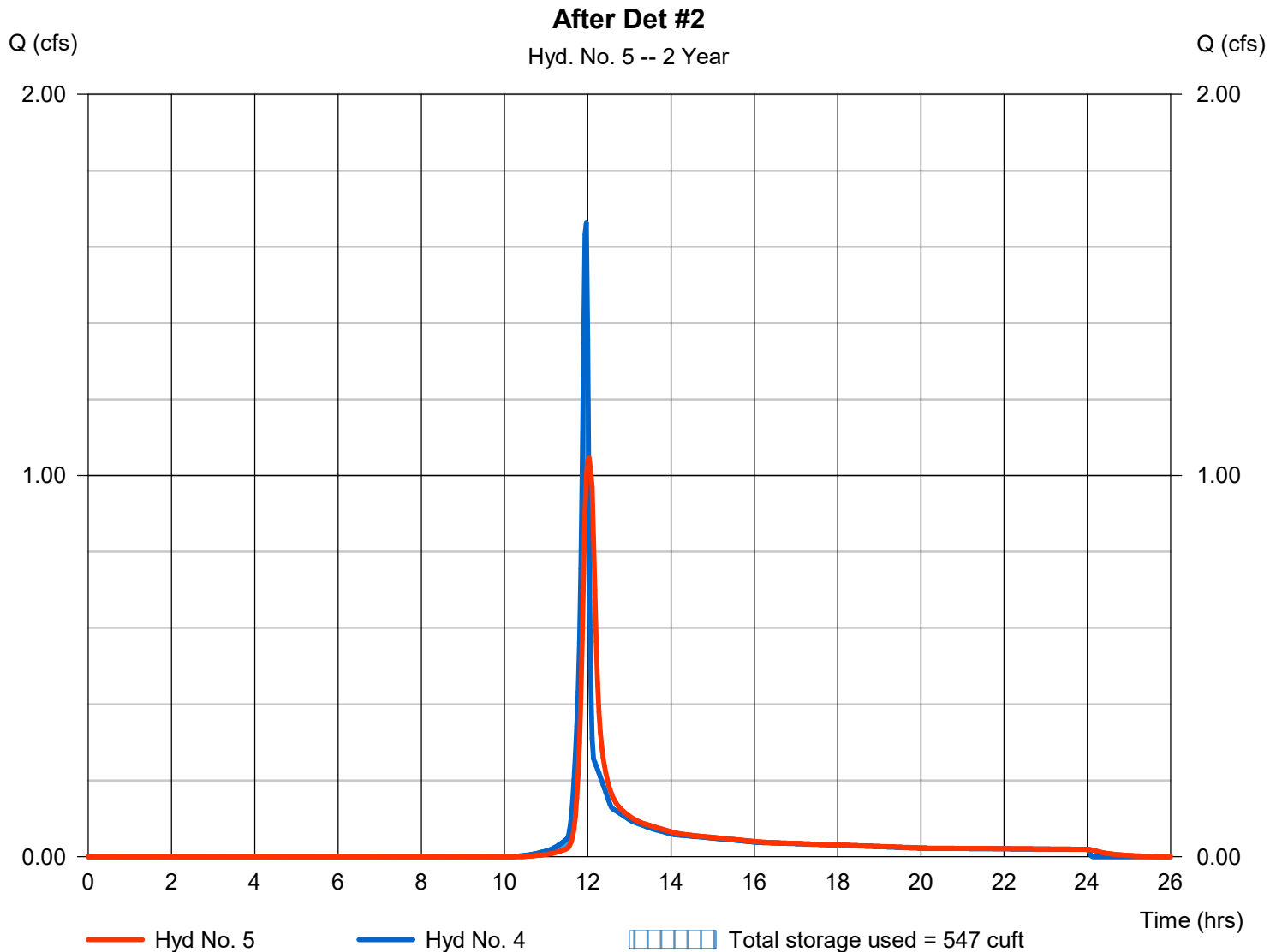


Hyd. No. 5

After Det #2

Hydrograph type	= Reservoir	Peak discharge	= 1.046 cfs
Storm frequency	= 2 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 3,324 cuft
Inflow hyd. No.	= 4 - To Det #2	Max. Elevation	= 402.11 ft
Reservoir name	= Det Pond #2	Max. Storage	= 547 cuft

Storage Indication method used.



Pond No. 2 - Det Pond #2

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 401.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	401.00	280	0	0
1.00	402.00	610	434	434
3.00	404.00	1,475	2,022	2,457
4.00	405.00	1,990	1,726	4,182

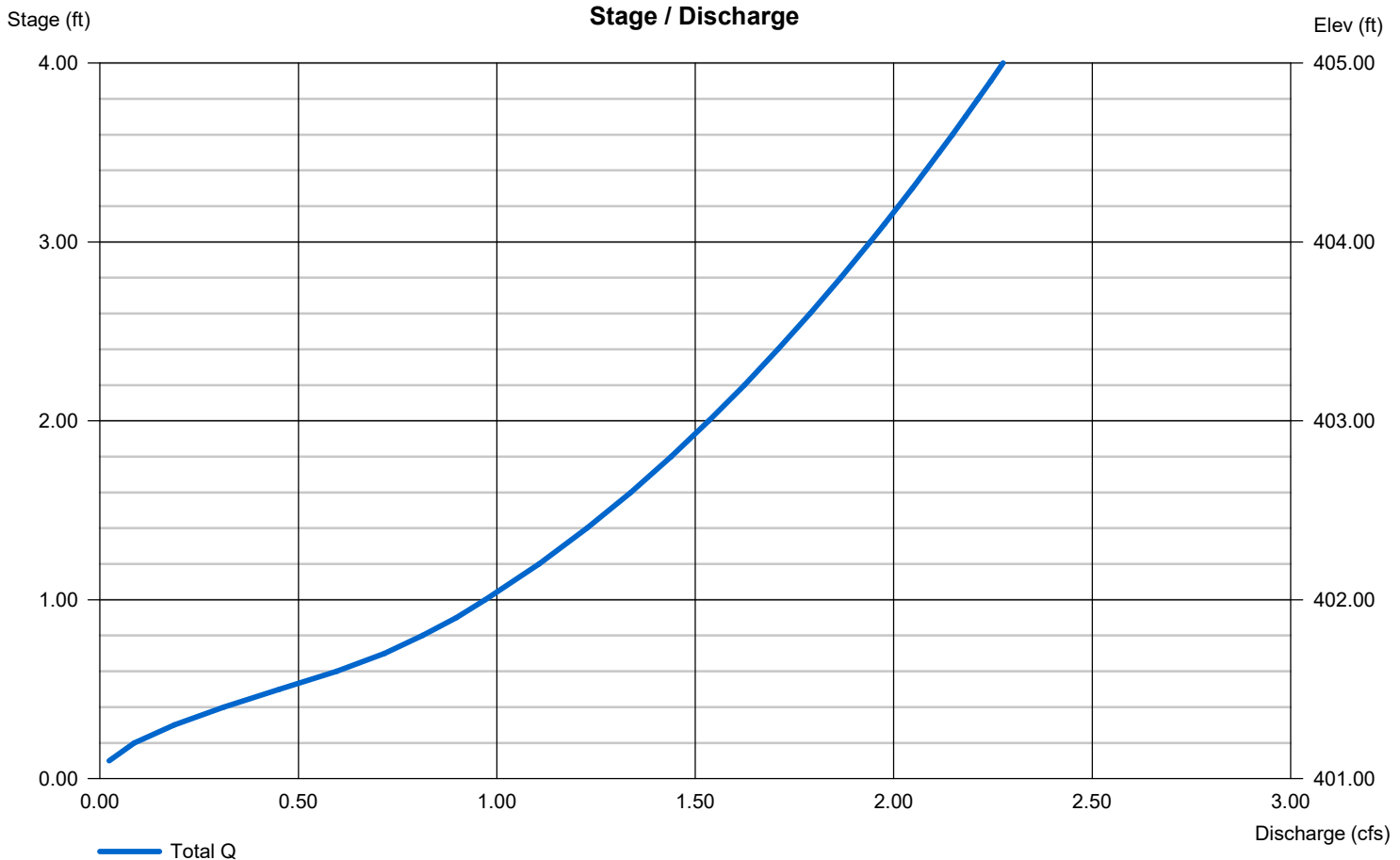
Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 8.00	8.00	Inactive	Inactive
Span (in)	= 8.00	8.00	0.00	0.00
No. Barrels	= 1	1	0	0
Invert El. (ft)	= 401.00	401.00	0.00	0.00
Length (ft)	= 25.00	1.00	0.00	0.00
Slope (%)	= 2.00	2.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	Inactive	Inactive	Inactive	0.00
Crest El. (ft)	= 457.50	456.10	457.75	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= 1	Rect	Ciplti	---
Multi-Stage	= Yes	Yes	No	No
Exfil.(in/hr)	= 0.000 (by Wet area)			
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

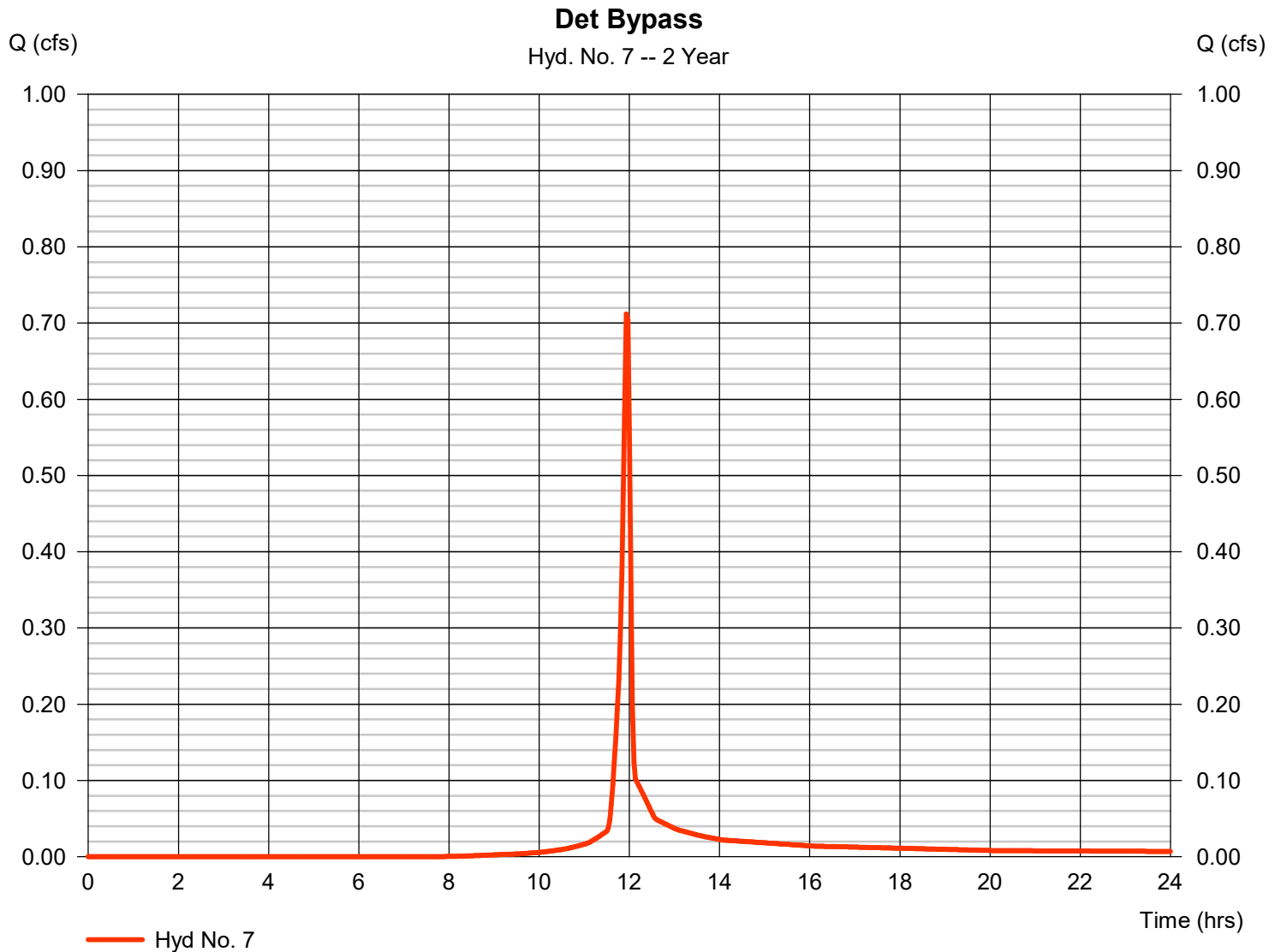


Hyd. No. 7

Det Bypass

Hydrograph type	= SCS Runoff	Peak discharge	= 0.712 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 1,442 cuft
Drainage area	= 0.230 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.39 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.120 x 98) + (0.110 x 69)] / 0.230

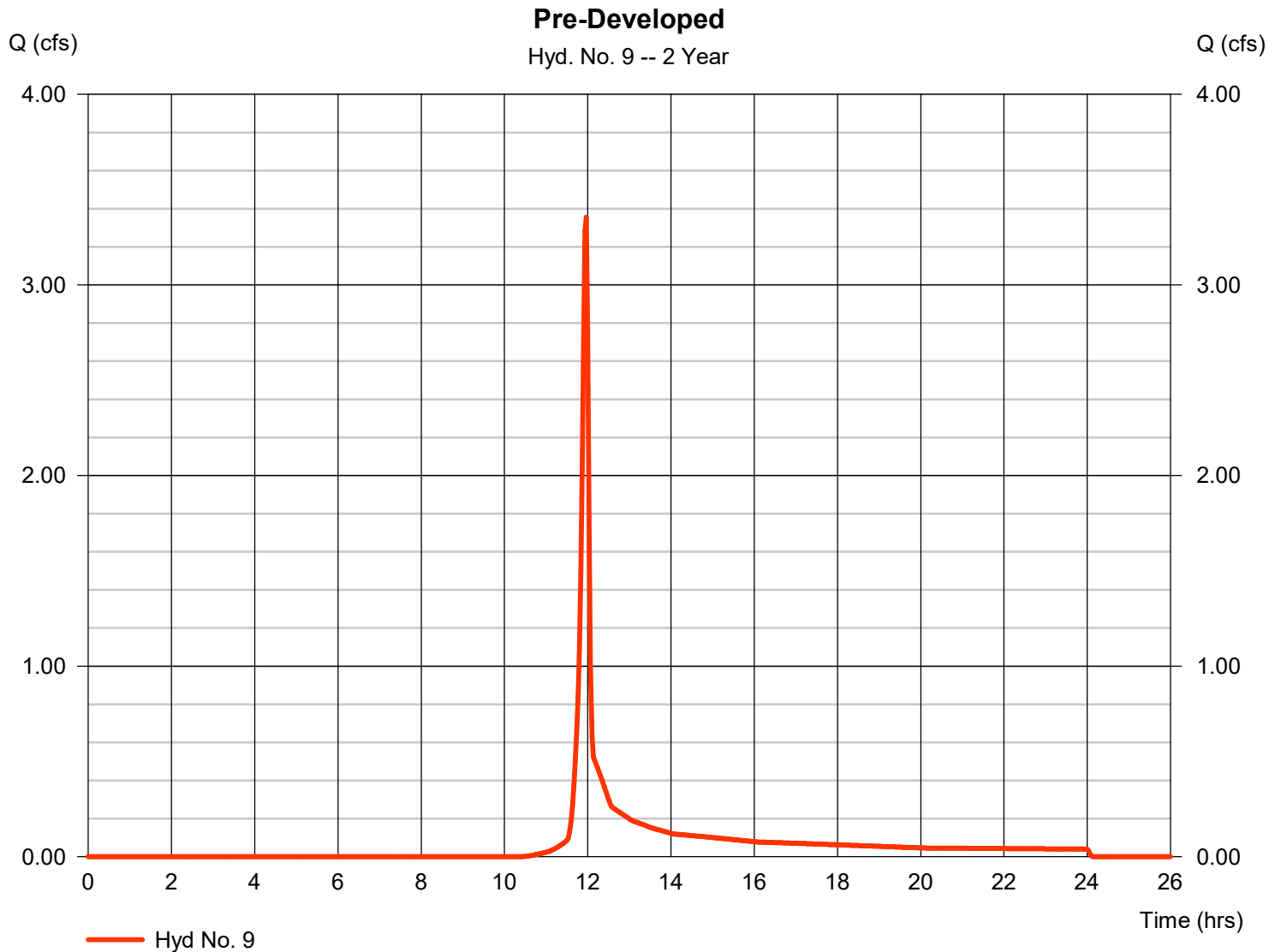


Hyd. No. 9

Pre-Developed

Hydrograph type	= SCS Runoff	Peak discharge	= 3.355 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 6,709 cuft
Drainage area	= 1.610 ac	Curve number	= 75*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.39 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.290 x 69) + (0.320 x 98)] / 1.610

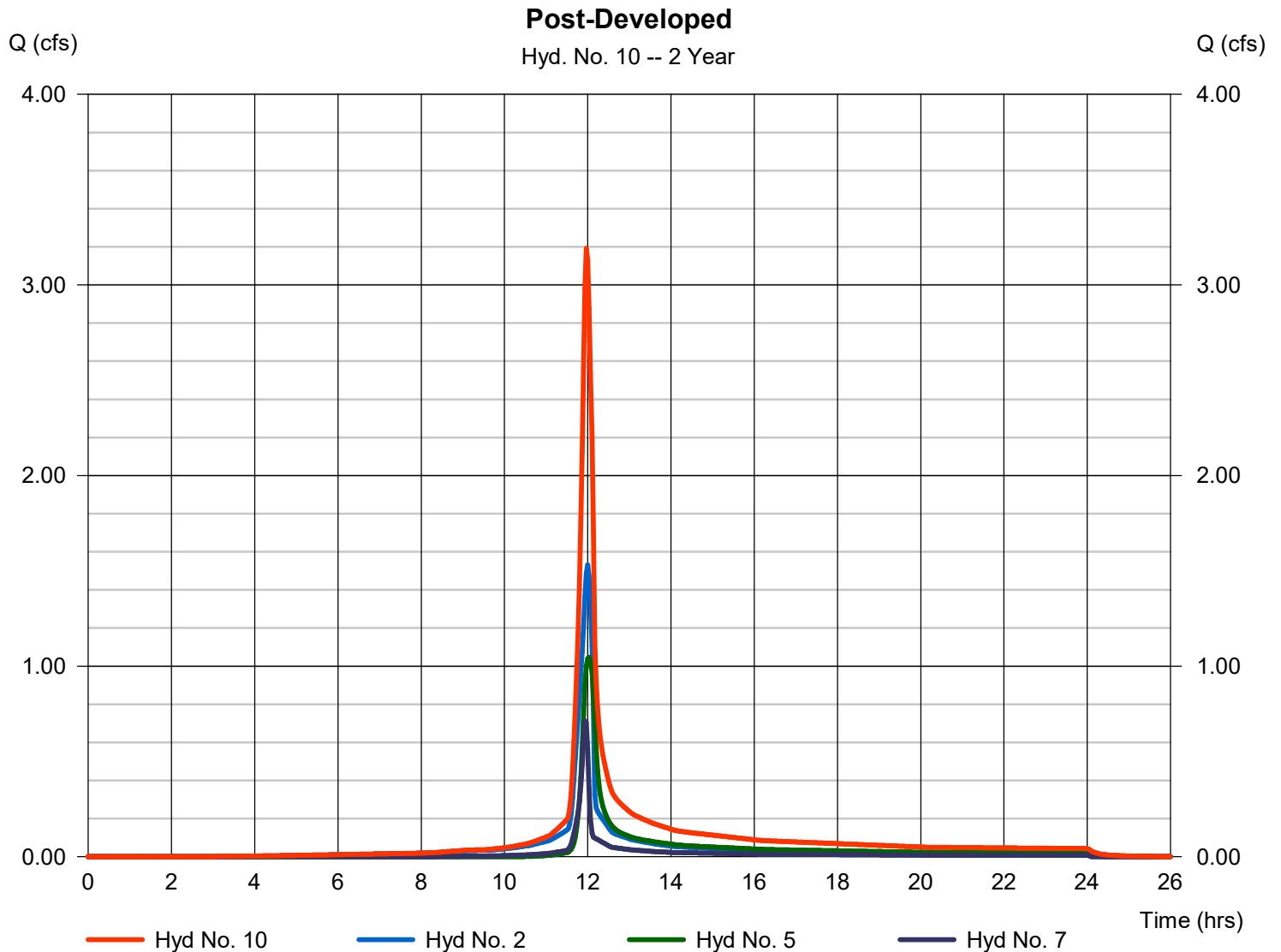


Hyd. No. 10

Post-Developed

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 2 min
Inflow hyds. = 2, 5, 7

Peak discharge = 3.192 cfs
Time to peak = 11.97 hrs
Hyd. volume = 9,198 cuft
Contrib. drain. area = 0.230 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

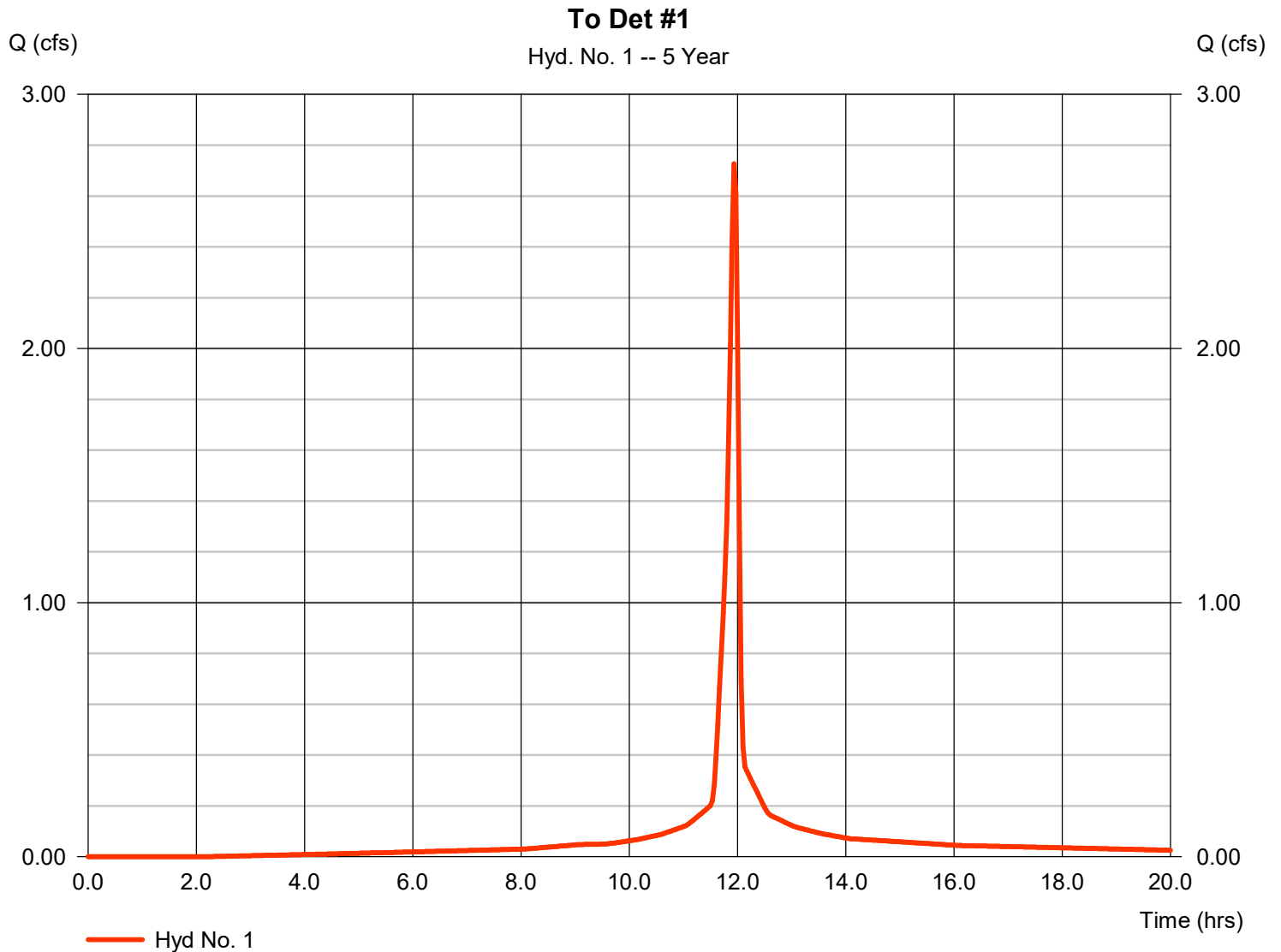
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	2.727	2	716	6,144	-----	-----	-----	To Det #1
2	Reservoir	1.772	2	720	6,143	1	428.56	655	After Det #1
4	SCS Runoff	2.729	2	718	5,508	-----	-----	-----	To Det #2
5	Reservoir	1.364	2	722	5,507	4	402.65	1,095	After Det #2
7	SCS Runoff	1.075	2	716	2,205	-----	-----	-----	Det Bypass
9	SCS Runoff	5.580	2	718	11,234	-----	-----	-----	Pre-Developed
10	Combine	4.032	2	718	13,855	2, 5, 7,	-----	-----	Post-Developed

Hyd. No. 1

To Det #1

Hydrograph type	= SCS Runoff	Peak discharge	= 2.727 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 6,144 cuft
Drainage area	= 0.460 ac	Curve number	= 95*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.410 x 98) + (0.050 x 69)] / 0.460

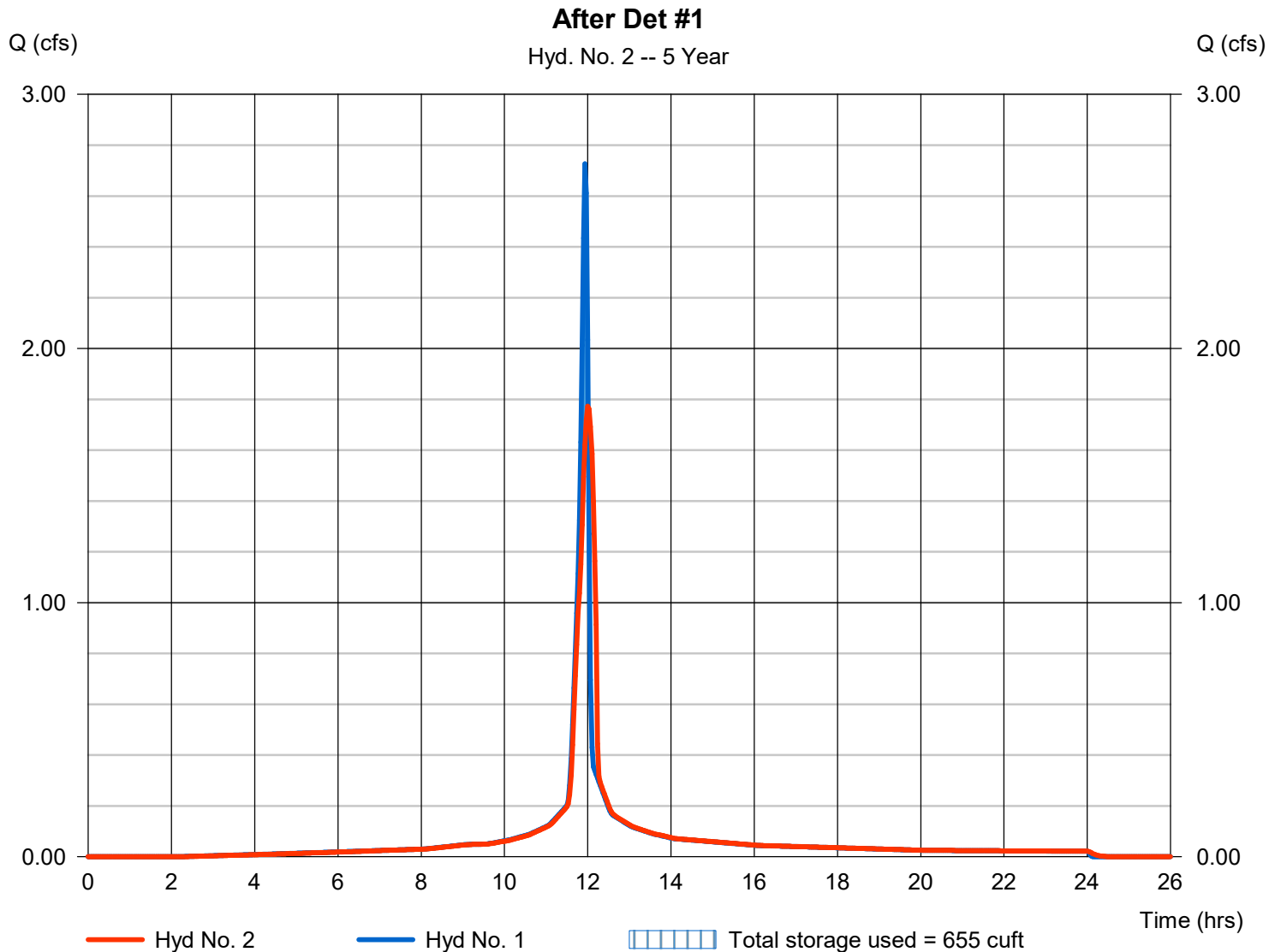


Hyd. No. 2

After Det #1

Hydrograph type	= Reservoir	Peak discharge	= 1.772 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.00 hrs
Time interval	= 2 min	Hyd. volume	= 6,143 cuft
Inflow hyd. No.	= 1 - To Det #1	Max. Elevation	= 428.56 ft
Reservoir name	= Det Pond #1	Max. Storage	= 655 cuft

Storage Indication method used.

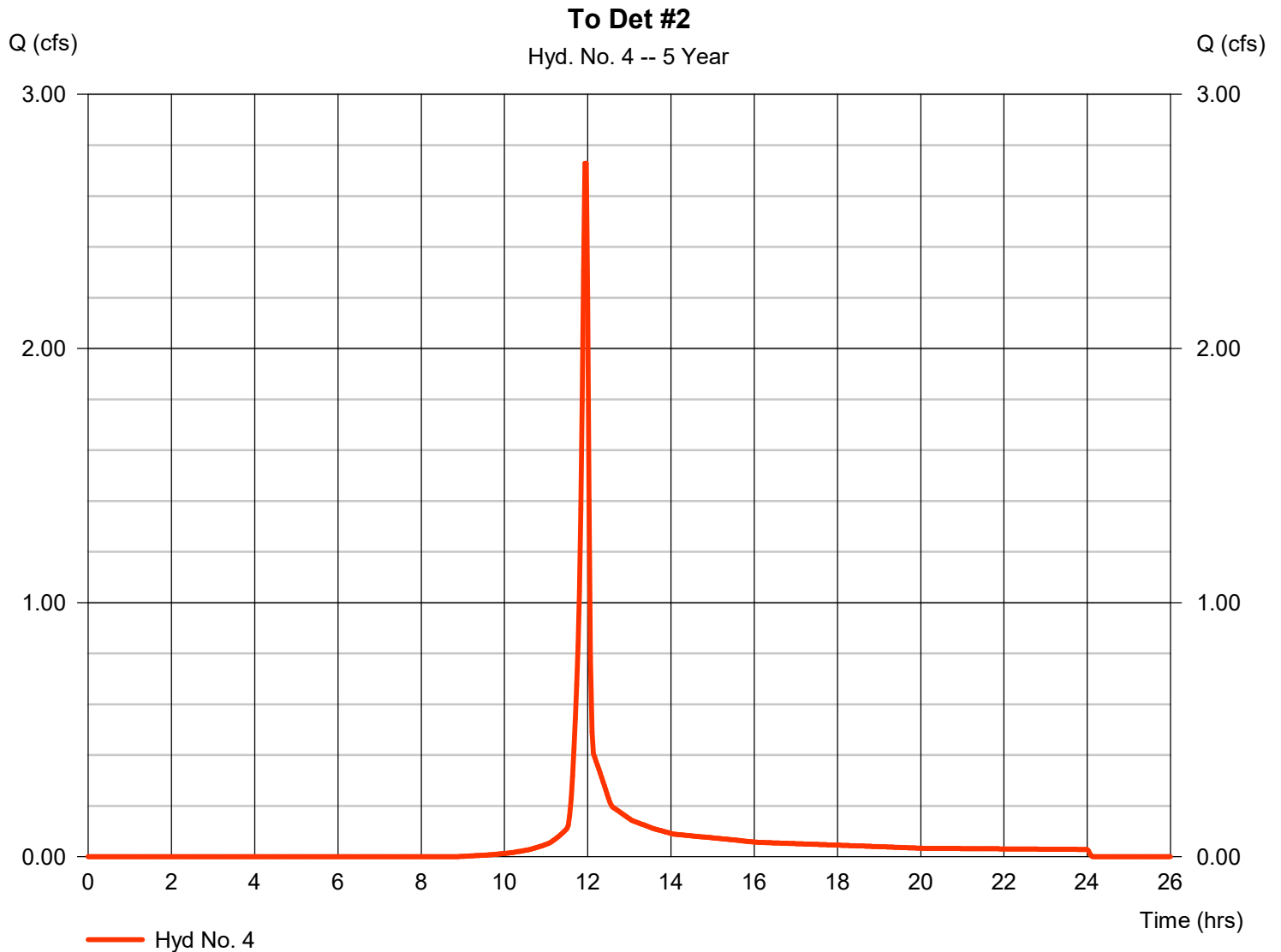


Hyd. No. 4

To Det #2

Hydrograph type	= SCS Runoff	Peak discharge	= 2.729 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 5,508 cuft
Drainage area	= 0.760 ac	Curve number	= 76*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.580 x 69) + (0.180 x 98)] / 0.760

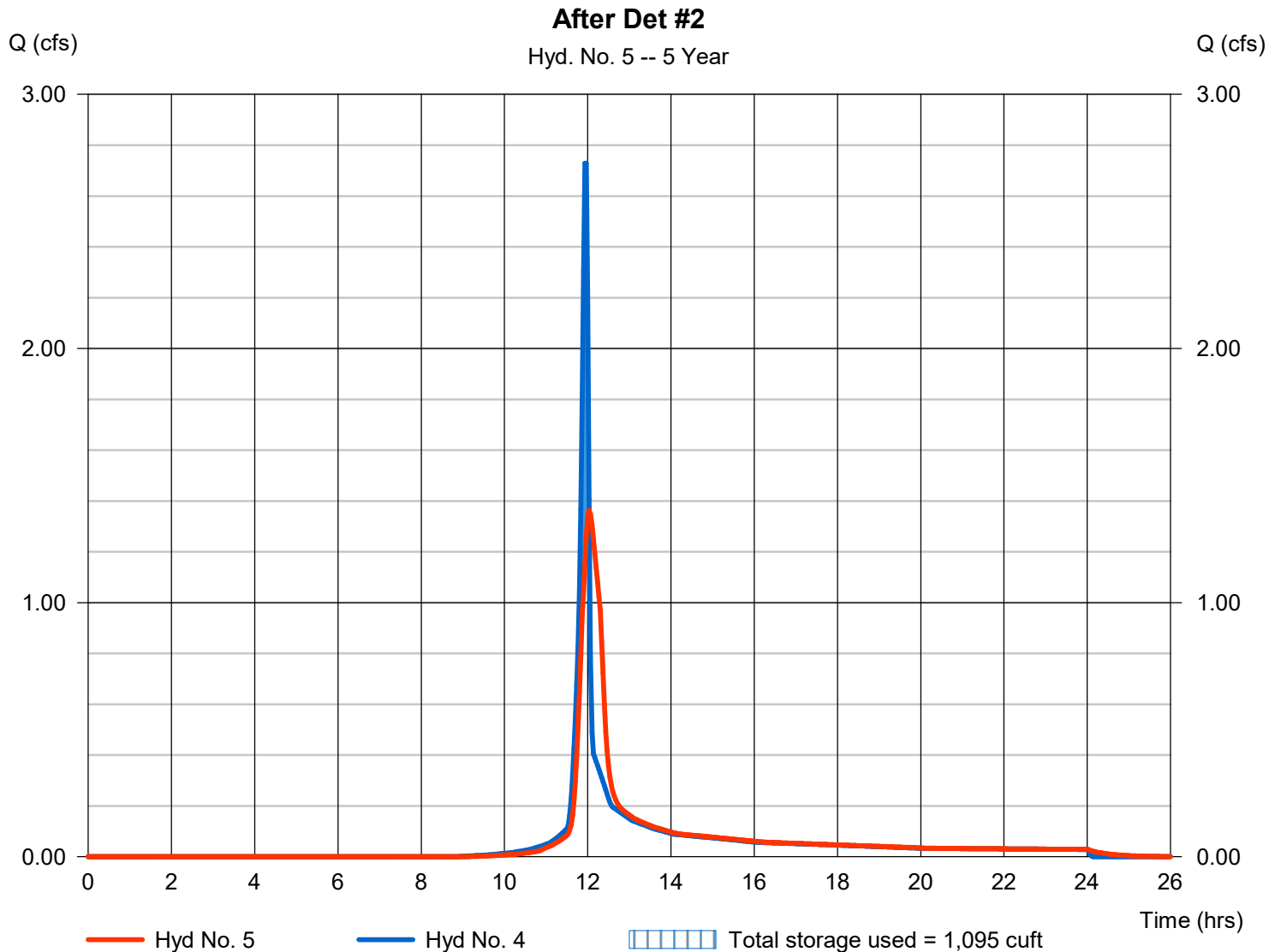


Hyd. No. 5

After Det #2

Hydrograph type	= Reservoir	Peak discharge	= 1.364 cfs
Storm frequency	= 5 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 5,507 cuft
Inflow hyd. No.	= 4 - To Det #2	Max. Elevation	= 402.65 ft
Reservoir name	= Det Pond #2	Max. Storage	= 1,095 cuft

Storage Indication method used.

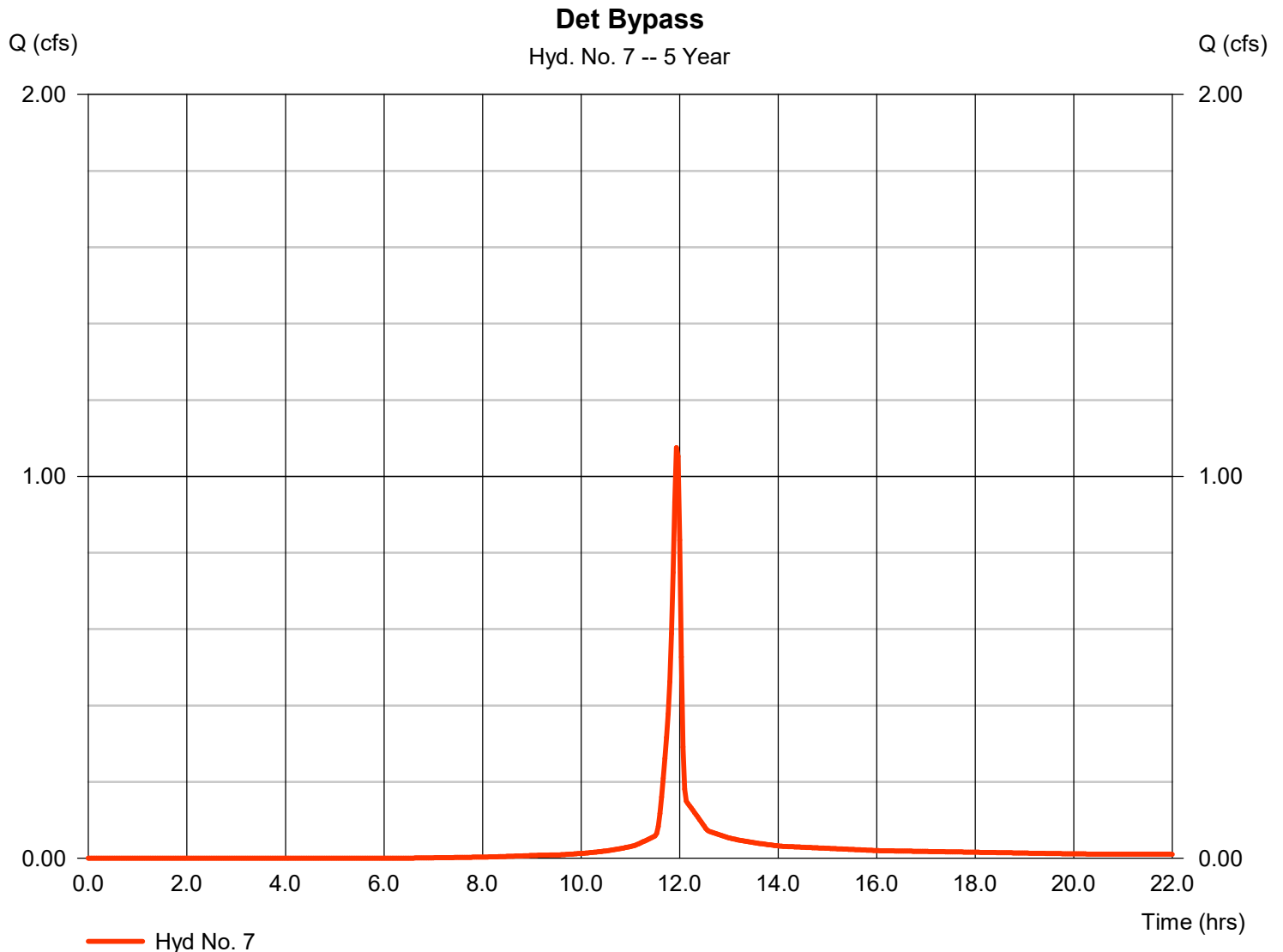


Hyd. No. 7

Det Bypass

Hydrograph type	= SCS Runoff	Peak discharge	= 1.075 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 2,205 cuft
Drainage area	= 0.230 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.120 x 98) + (0.110 x 69)] / 0.230

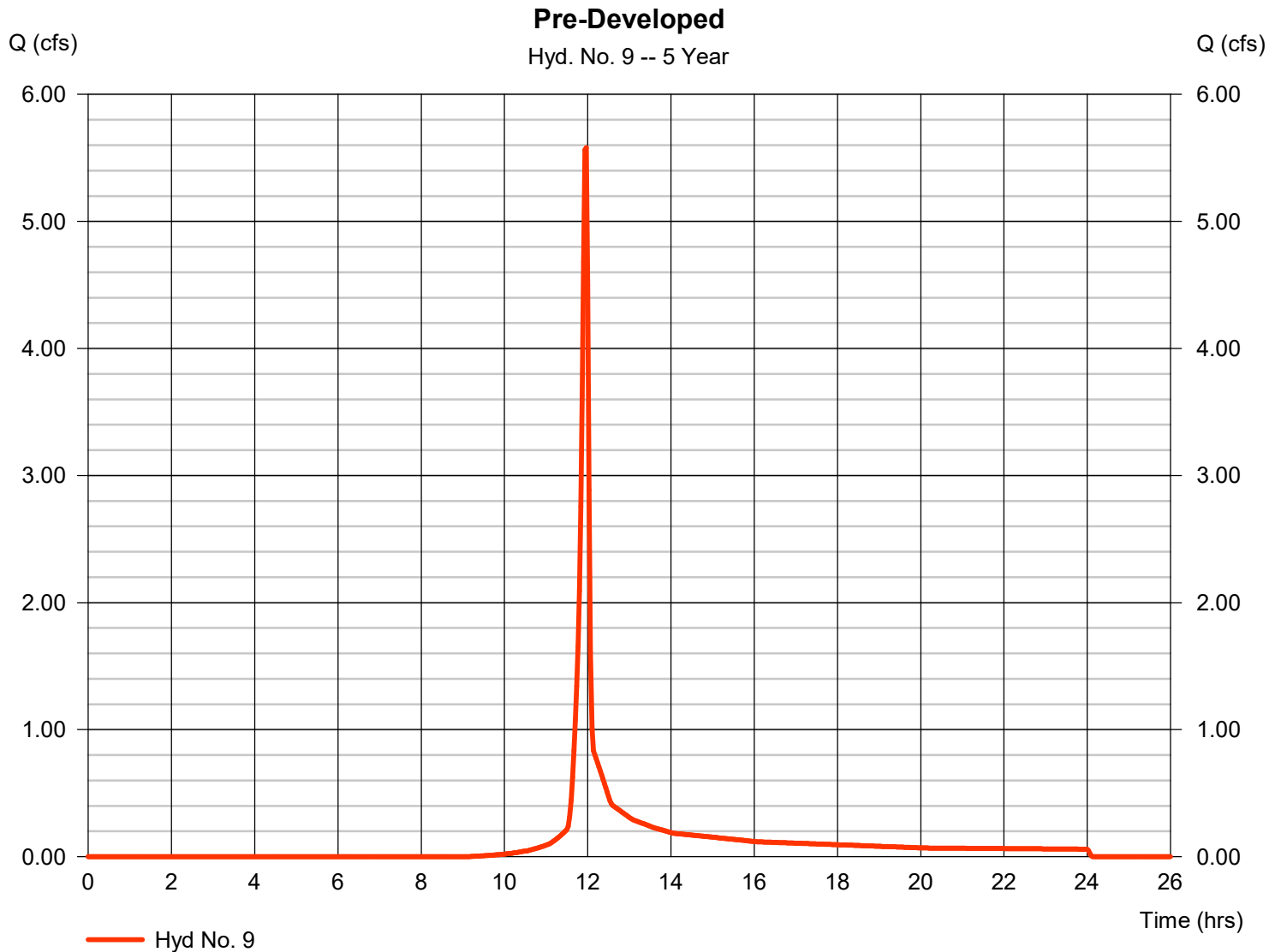


Hyd. No. 9

Pre-Developed

Hydrograph type	= SCS Runoff	Peak discharge	= 5.580 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 11,234 cuft
Drainage area	= 1.610 ac	Curve number	= 75*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.290 x 69) + (0.320 x 98)] / 1.610

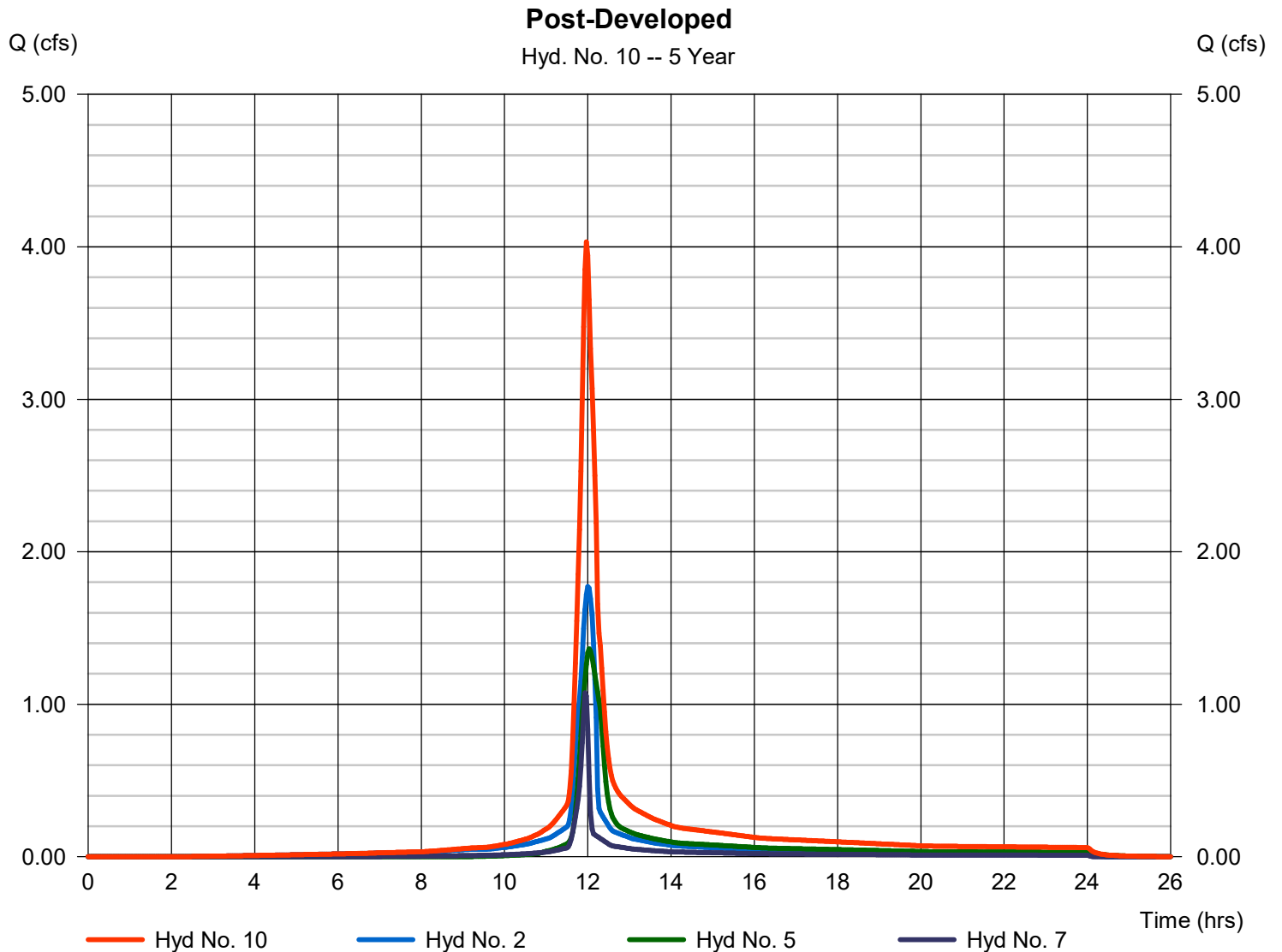


Hyd. No. 10

Post-Developed

Hydrograph type = Combine
Storm frequency = 5 yrs
Time interval = 2 min
Inflow hyds. = 2, 5, 7

Peak discharge = 4.032 cfs
Time to peak = 11.97 hrs
Hyd. volume = 13,855 cuft
Contrib. drain. area = 0.230 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

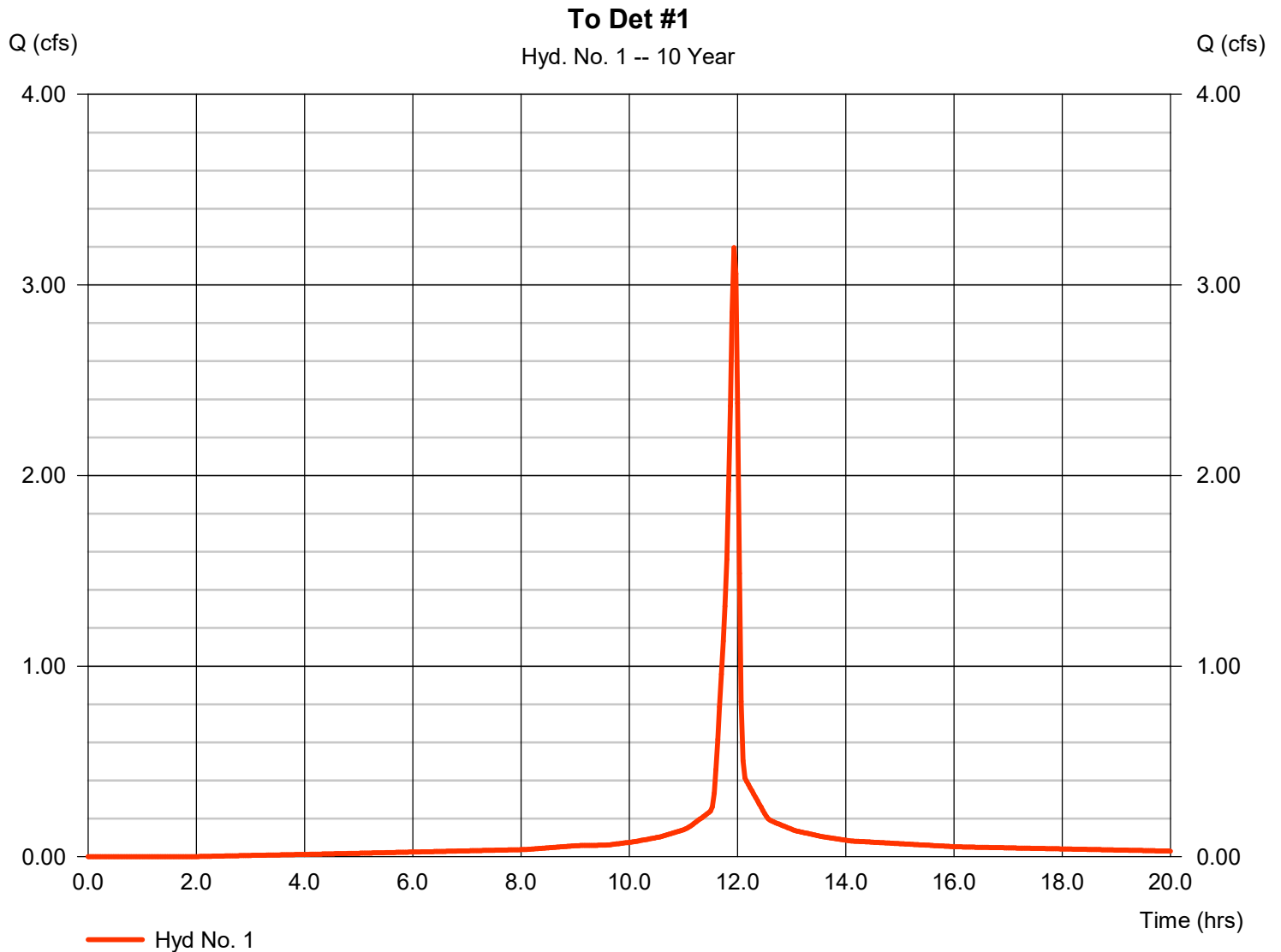
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	3.196	2	716	7,275	-----	-----	-----	To Det #1
2	Reservoir	1.933	2	722	7,275	1	428.98	873	After Det #1
4	SCS Runoff	3.487	2	716	7,051	-----	-----	-----	To Det #2
5	Reservoir	1.569	2	722	7,049	4	403.08	1,524	After Det #2
7	SCS Runoff	1.317	2	716	2,725	-----	-----	-----	Det Bypass
9	SCS Runoff	7.152	2	716	14,449	-----	-----	-----	Pre-Developed
10	Combine	4.584	2	718	17,049	2, 5, 7,	-----	-----	Post-Developed

Hyd. No. 1

To Det #1

Hydrograph type	= SCS Runoff	Peak discharge	= 3.196 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 7,275 cuft
Drainage area	= 0.460 ac	Curve number	= 95*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 5.23 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.410 x 98) + (0.050 x 69)] / 0.460

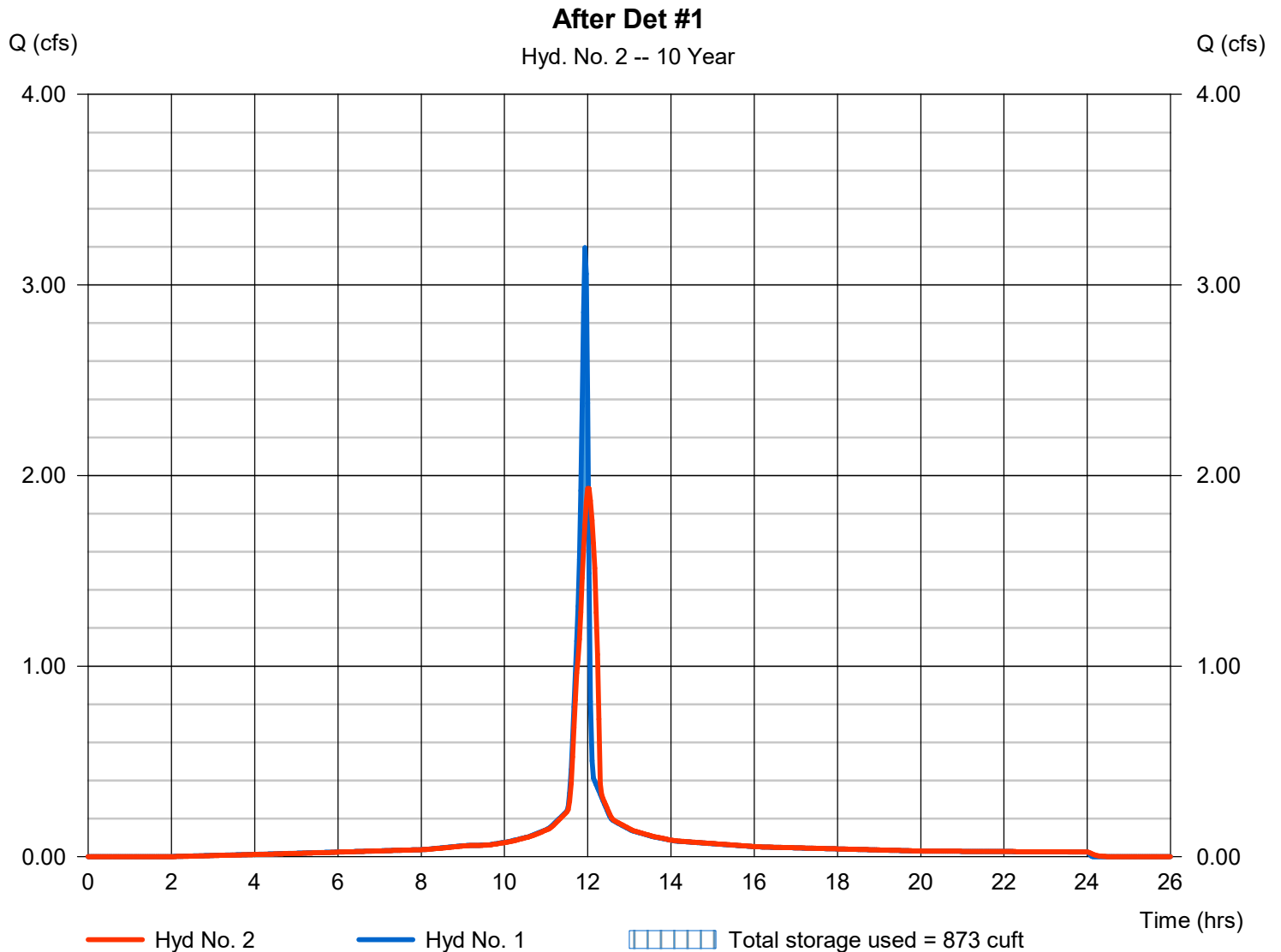


Hyd. No. 2

After Det #1

Hydrograph type	= Reservoir	Peak discharge	= 1.933 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 7,275 cuft
Inflow hyd. No.	= 1 - To Det #1	Max. Elevation	= 428.98 ft
Reservoir name	= Det Pond #1	Max. Storage	= 873 cuft

Storage Indication method used.

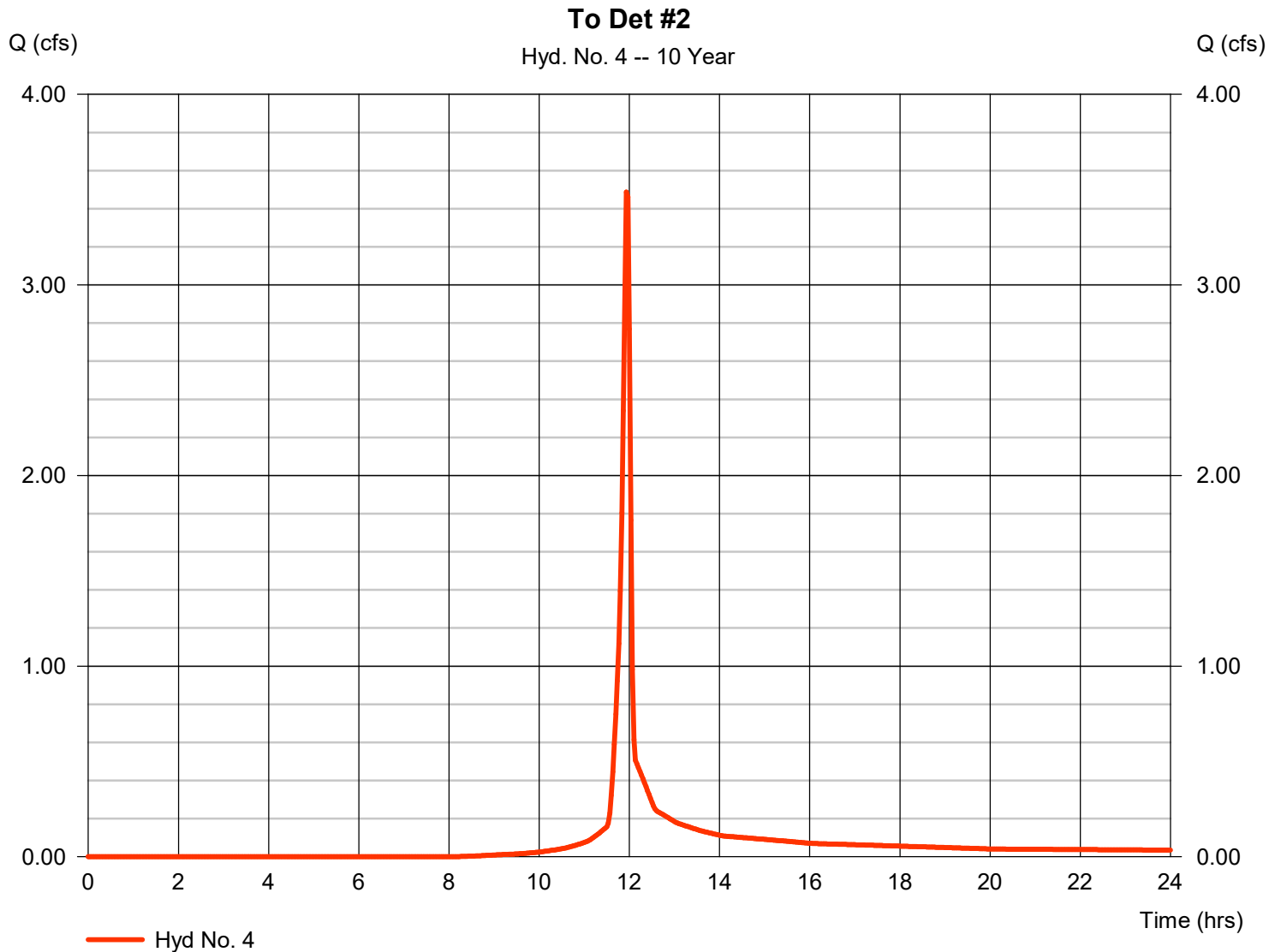


Hyd. No. 4

To Det #2

Hydrograph type	= SCS Runoff	Peak discharge	= 3.487 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 7,051 cuft
Drainage area	= 0.760 ac	Curve number	= 76*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 5.23 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.580 x 69) + (0.180 x 98)] / 0.760

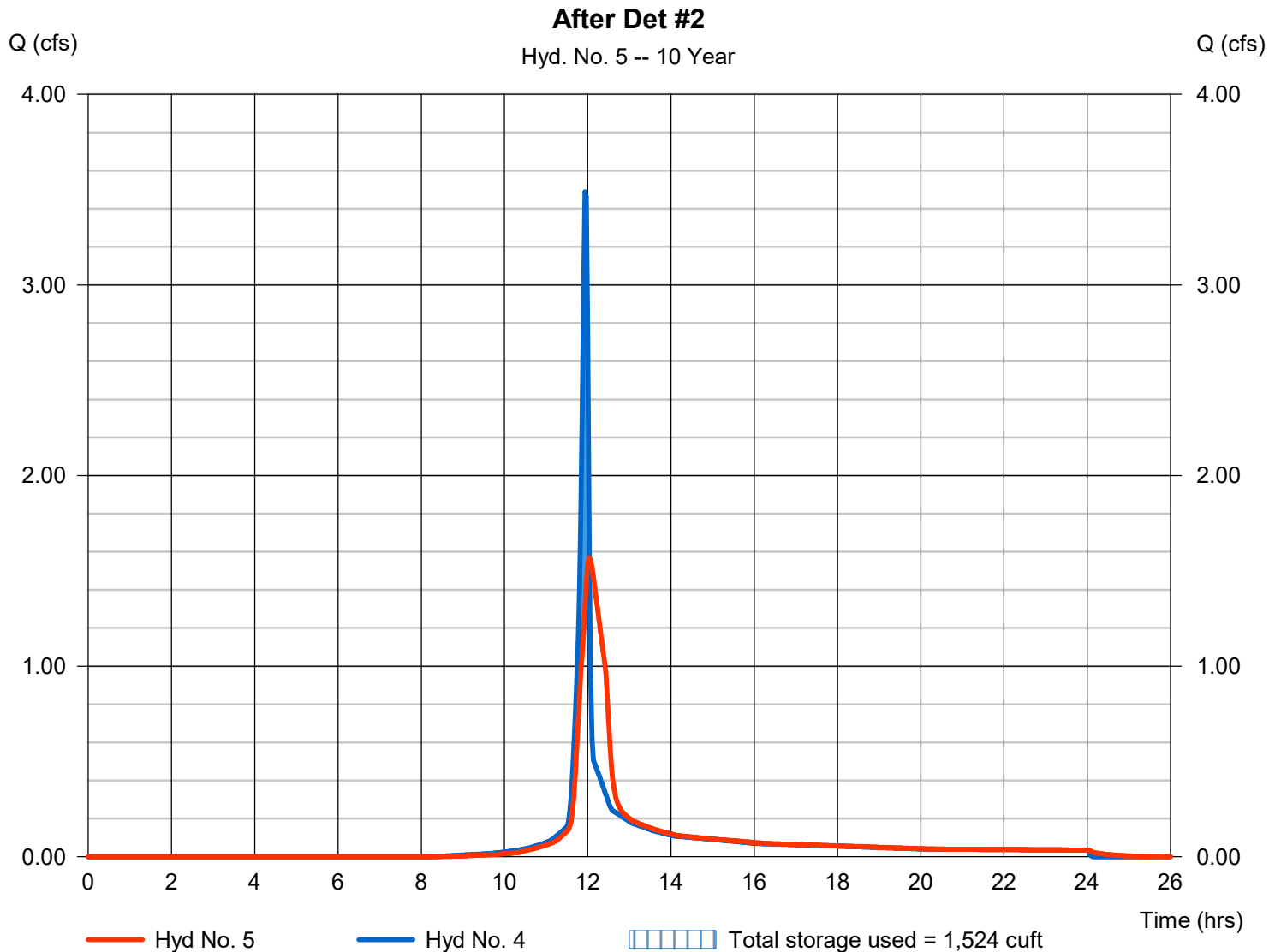


Hyd. No. 5

After Det #2

Hydrograph type	= Reservoir	Peak discharge	= 1.569 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 7,049 cuft
Inflow hyd. No.	= 4 - To Det #2	Max. Elevation	= 403.08 ft
Reservoir name	= Det Pond #2	Max. Storage	= 1,524 cuft

Storage Indication method used.

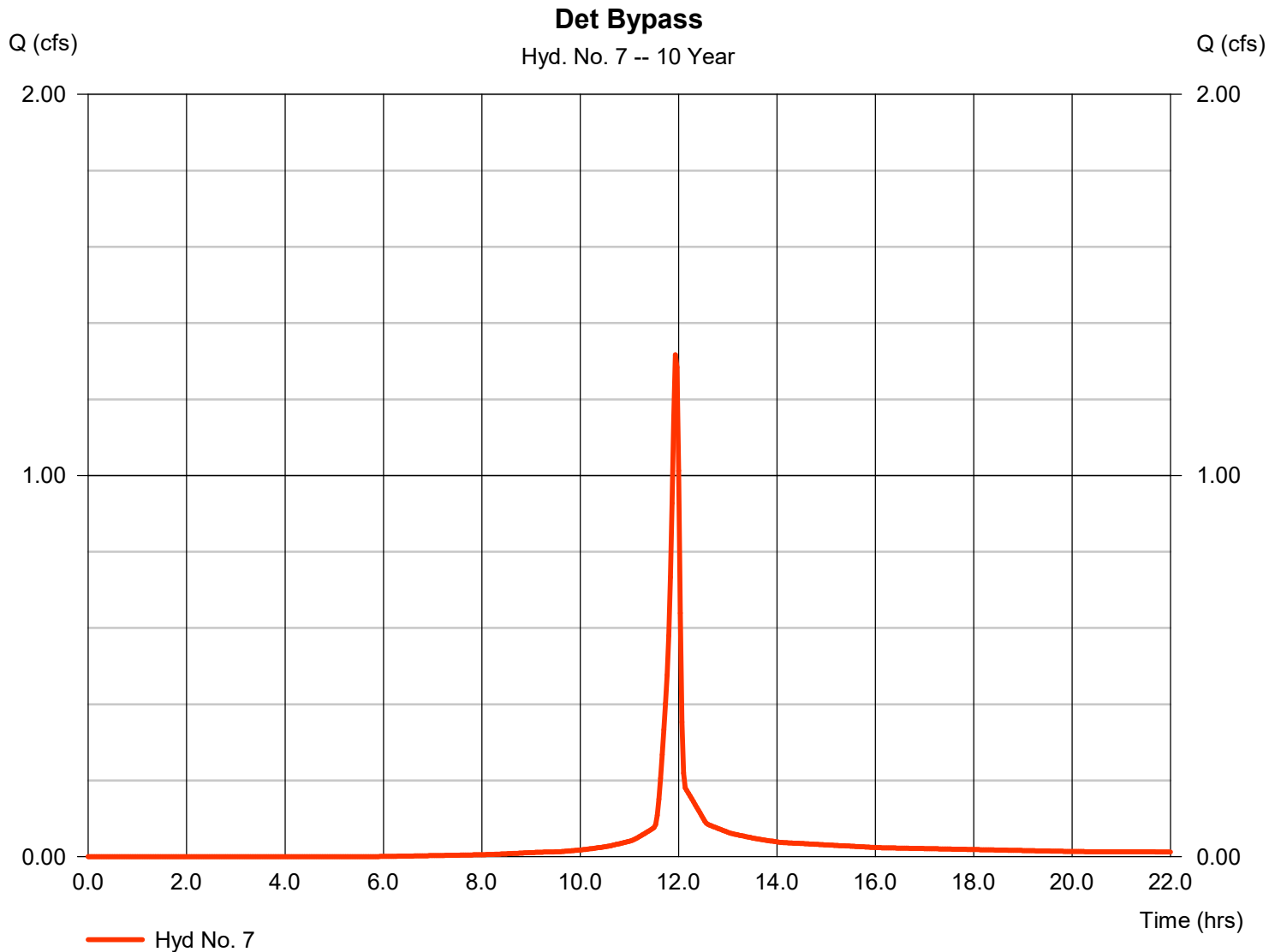


Hyd. No. 7

Det Bypass

Hydrograph type	= SCS Runoff	Peak discharge	= 1.317 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 2,725 cuft
Drainage area	= 0.230 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 5.23 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.120 x 98) + (0.110 x 69)] / 0.230

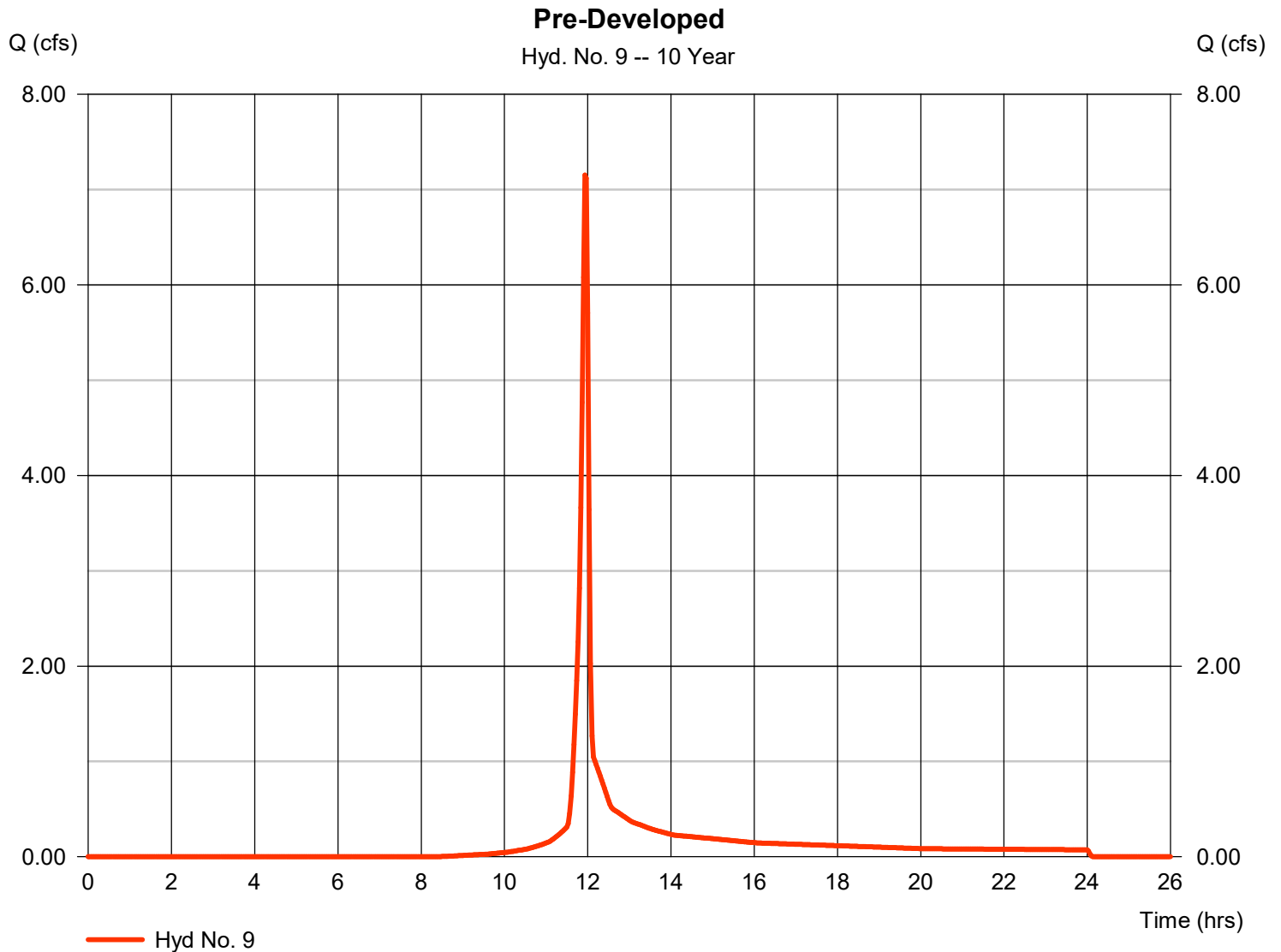


Hyd. No. 9

Pre-Developed

Hydrograph type	= SCS Runoff	Peak discharge	= 7.152 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 14,449 cuft
Drainage area	= 1.610 ac	Curve number	= 75*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 5.23 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.290 x 69) + (0.320 x 98)] / 1.610

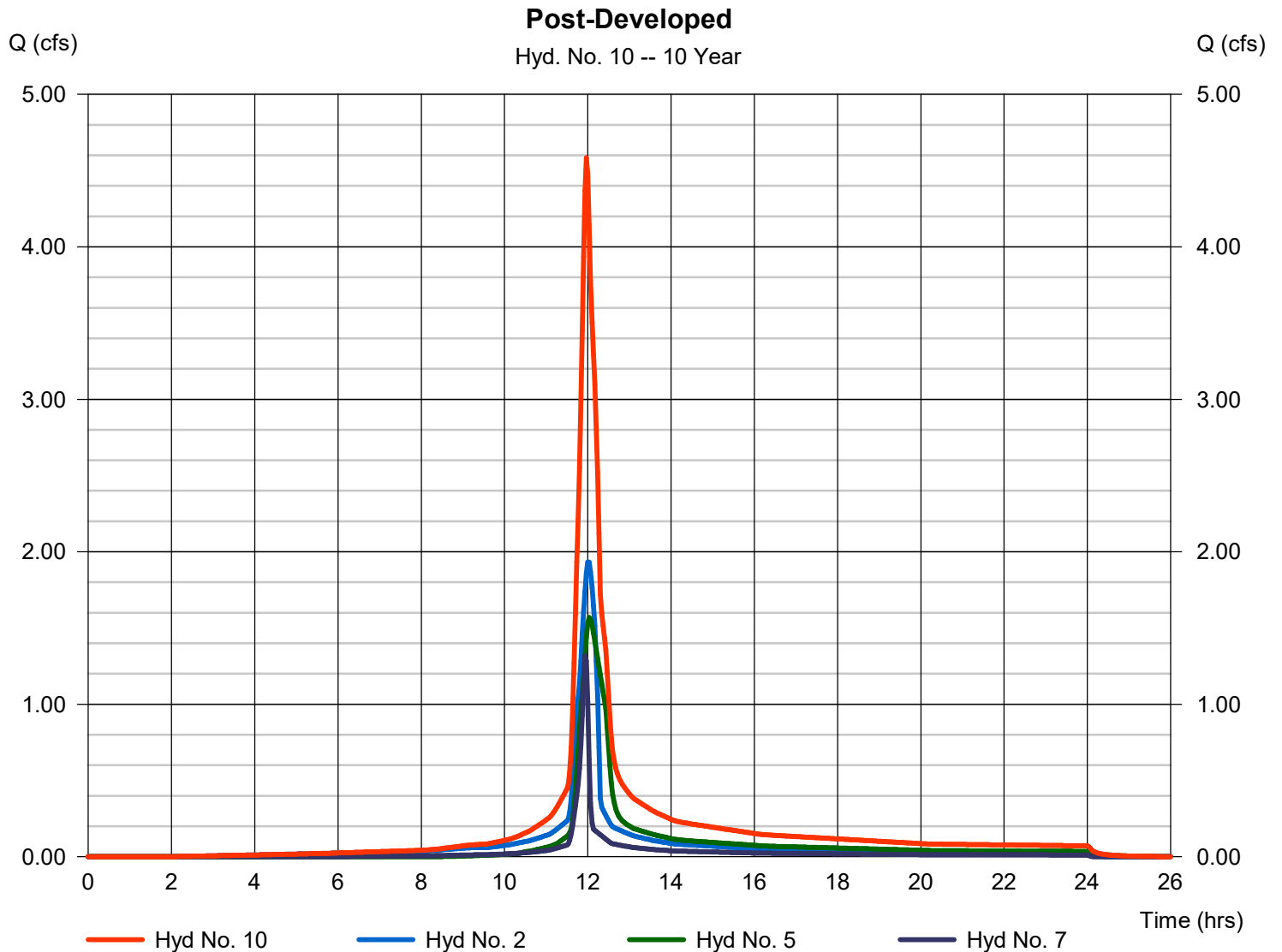


Hyd. No. 10

Post-Developed

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 2 min
Inflow hyds. = 2, 5, 7

Peak discharge = 4.584 cfs
Time to peak = 11.97 hrs
Hyd. volume = 17,049 cuft
Contrib. drain. area = 0.230 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

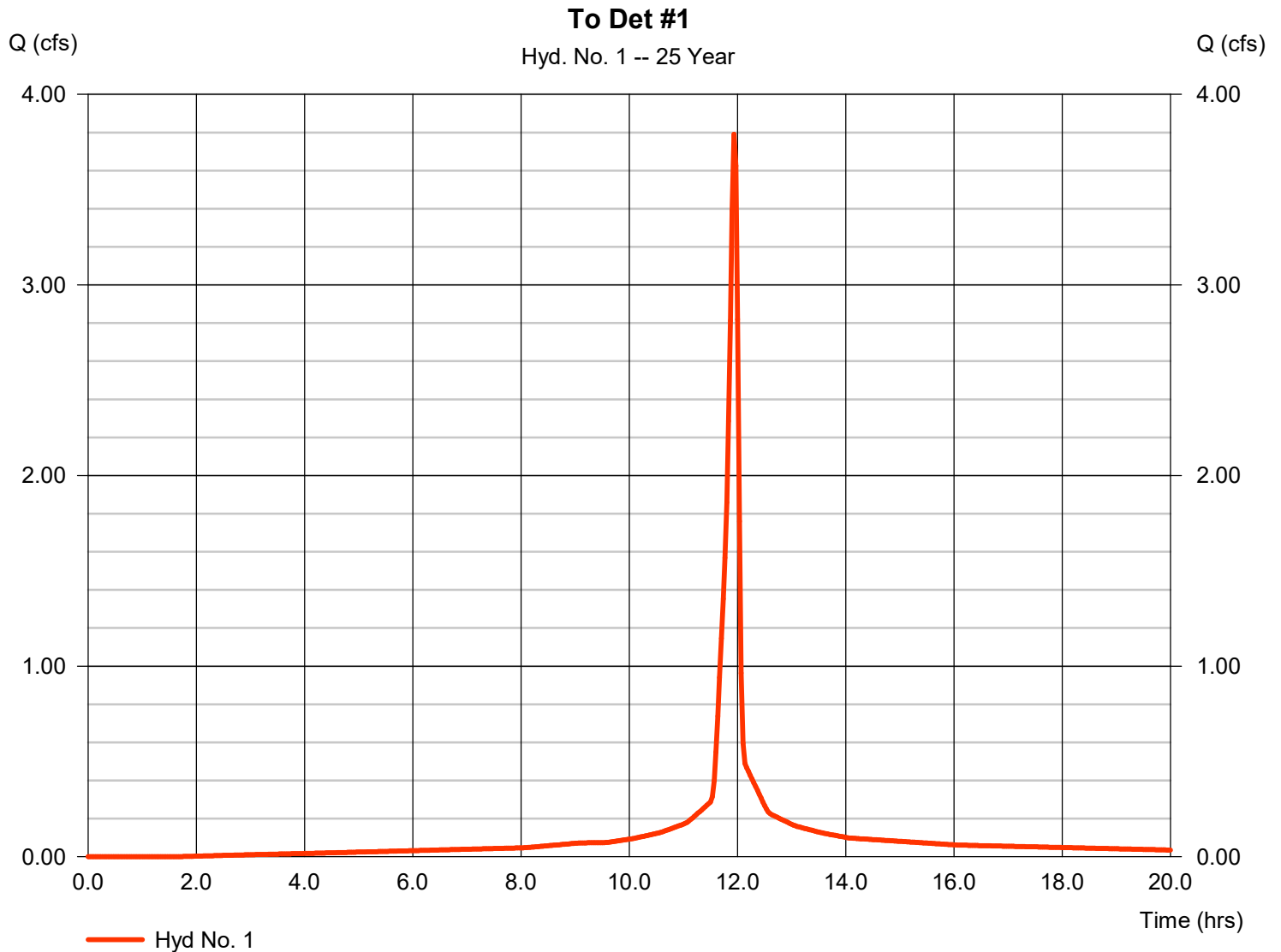
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	3.791	2	716	8,720	-----	-----	-----	To Det #1
2	Reservoir	2.073	2	722	8,720	1	429.38	1,205	After Det #1
4	SCS Runoff	4.478	2	716	9,100	-----	-----	-----	To Det #2
5	Reservoir	1.819	2	722	9,098	4	403.68	2,130	After Det #2
7	SCS Runoff	1.626	2	716	3,402	-----	-----	-----	Det Bypass
9	SCS Runoff	9.236	2	716	18,732	-----	-----	-----	Pre-Developed
10	Combine	5.240	2	718	21,220	2, 5, 7,	-----	-----	Post-Developed

Hyd. No. 1

To Det #1

Hydrograph type	= SCS Runoff	Peak discharge	= 3.791 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 8,720 cuft
Drainage area	= 0.460 ac	Curve number	= 95*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.16 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.410 x 98) + (0.050 x 69)] / 0.460

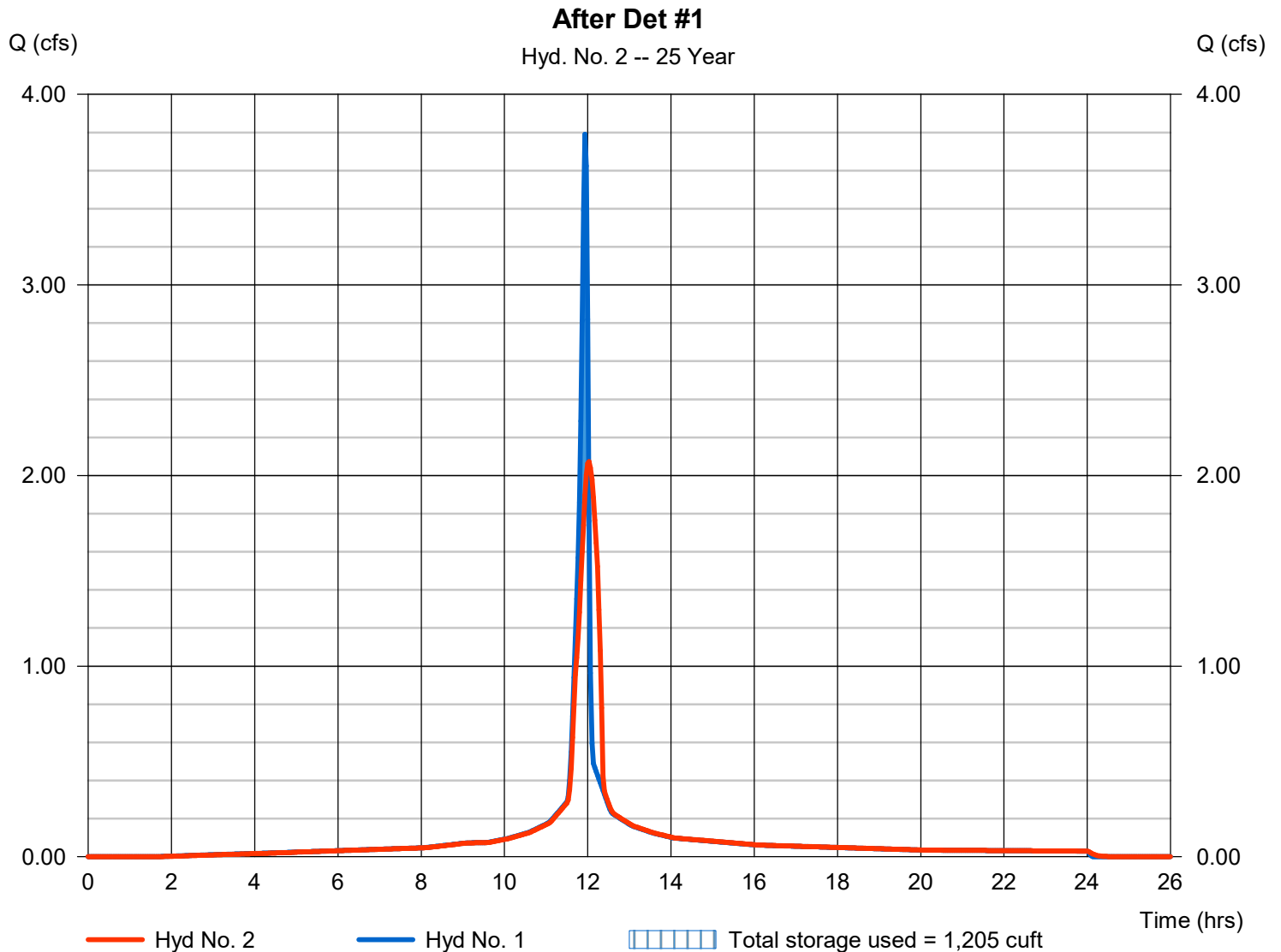


Hyd. No. 2

After Det #1

Hydrograph type	= Reservoir	Peak discharge	= 2.073 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 8,720 cuft
Inflow hyd. No.	= 1 - To Det #1	Max. Elevation	= 429.38 ft
Reservoir name	= Det Pond #1	Max. Storage	= 1,205 cuft

Storage Indication method used.

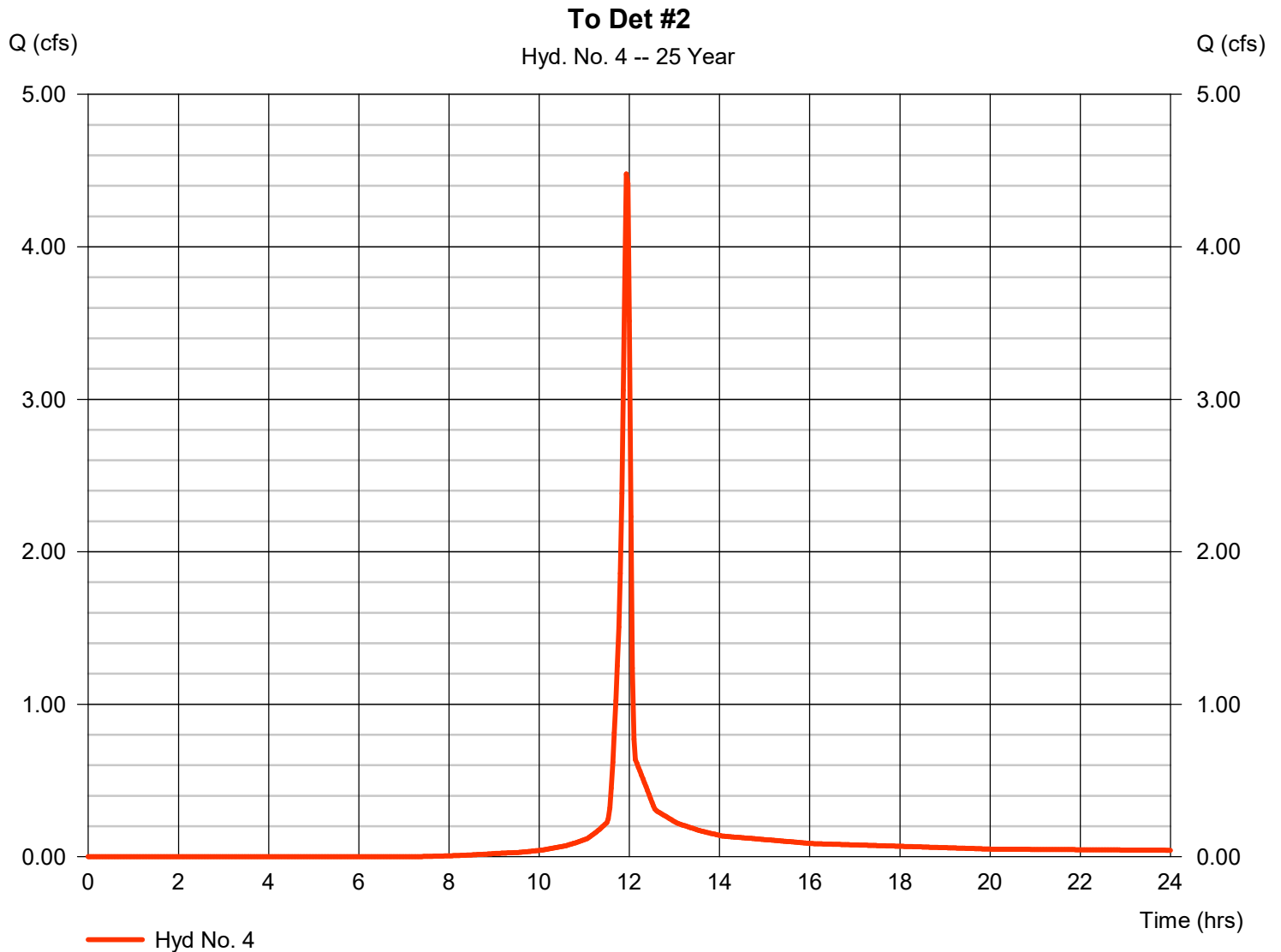


Hyd. No. 4

To Det #2

Hydrograph type	= SCS Runoff	Peak discharge	= 4.478 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 9,100 cuft
Drainage area	= 0.760 ac	Curve number	= 76*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.16 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = $[(0.580 \times 69) + (0.180 \times 98)] / 0.760$

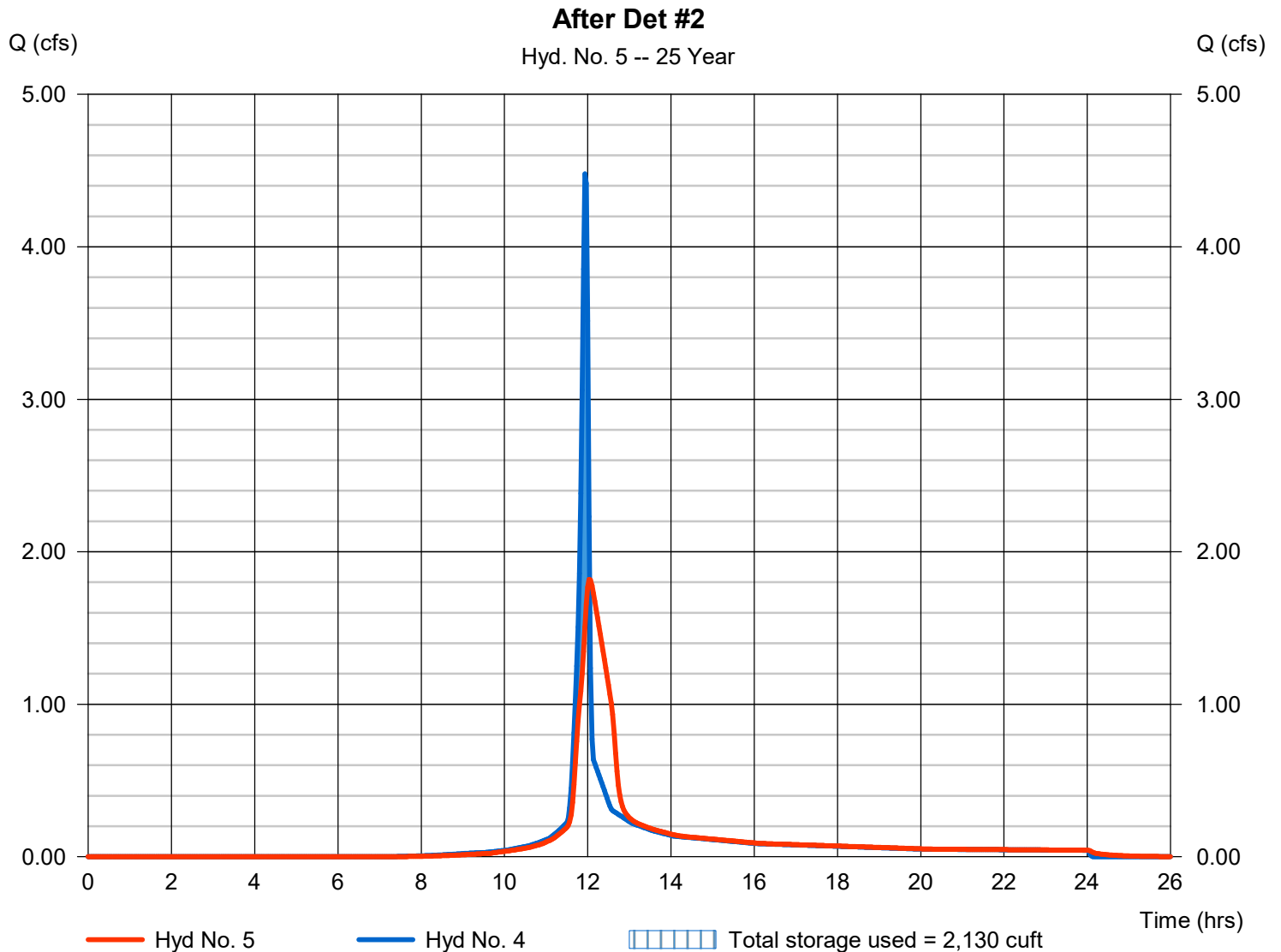


Hyd. No. 5

After Det #2

Hydrograph type	= Reservoir	Peak discharge	= 1.819 cfs
Storm frequency	= 25 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 9,098 cuft
Inflow hyd. No.	= 4 - To Det #2	Max. Elevation	= 403.68 ft
Reservoir name	= Det Pond #2	Max. Storage	= 2,130 cuft

Storage Indication method used.

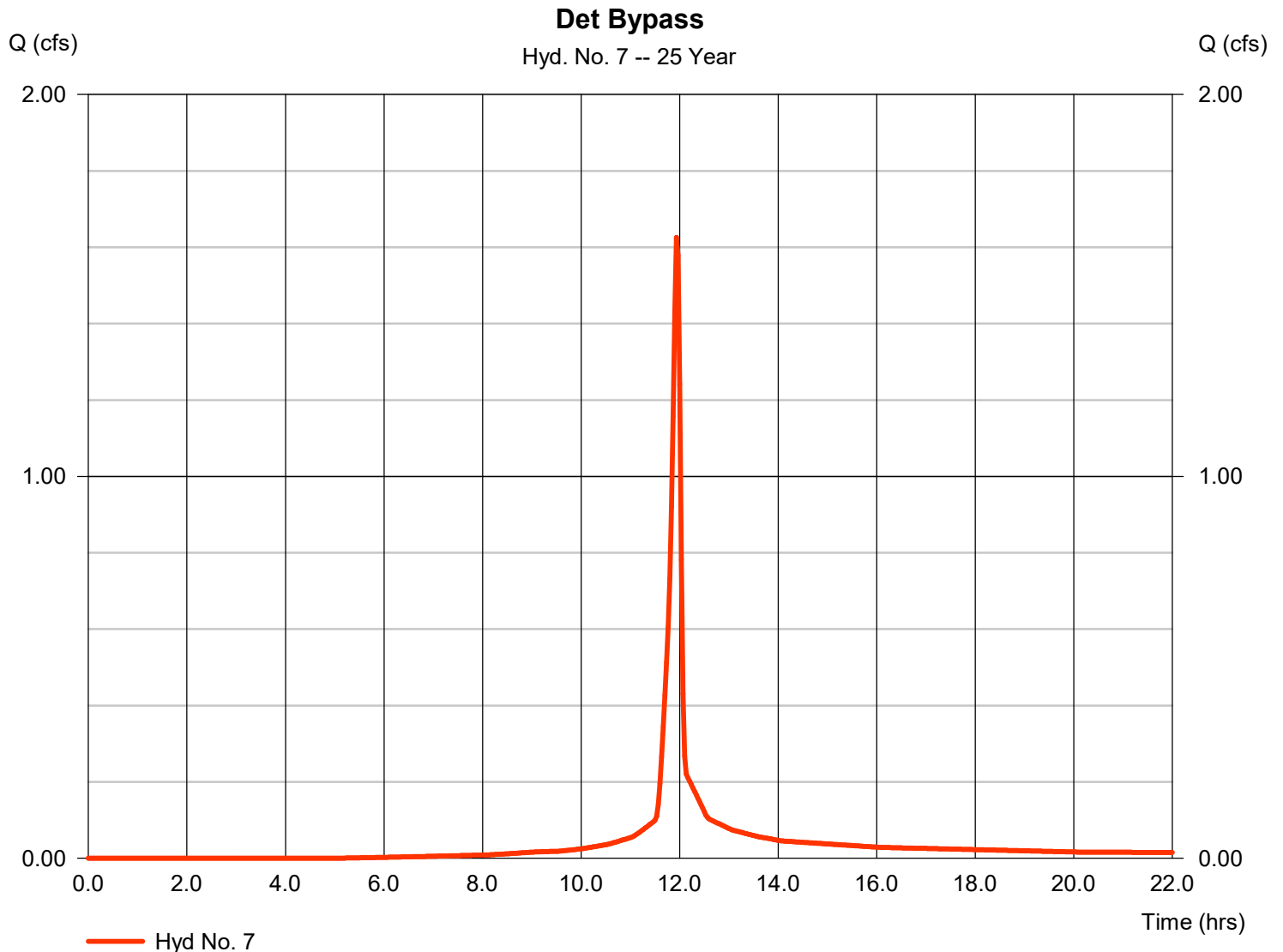


Hyd. No. 7

Det Bypass

Hydrograph type	= SCS Runoff	Peak discharge	= 1.626 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 3,402 cuft
Drainage area	= 0.230 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.16 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.120 x 98) + (0.110 x 69)] / 0.230

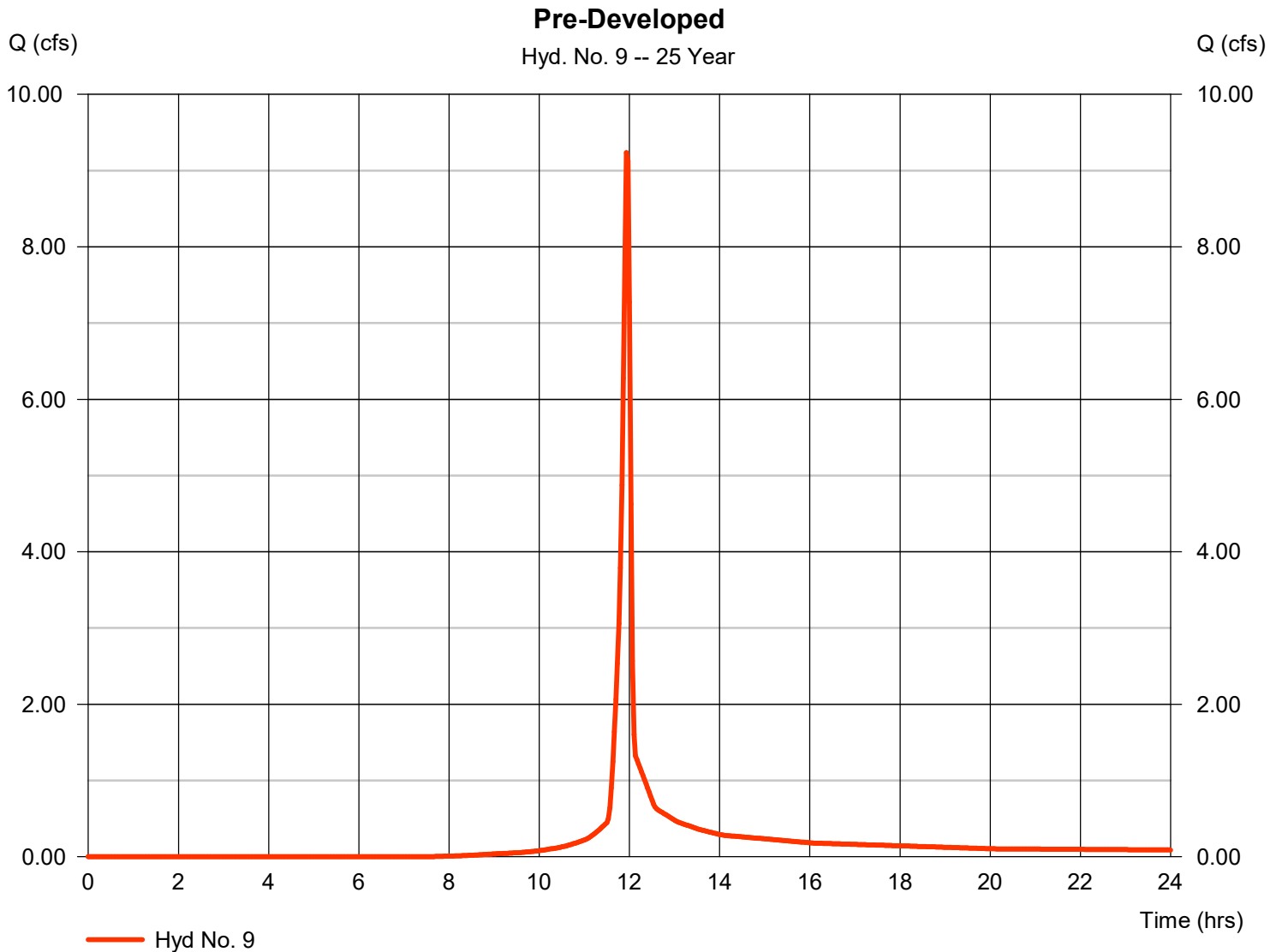


Hyd. No. 9

Pre-Developed

Hydrograph type	= SCS Runoff	Peak discharge	= 9.236 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 18,732 cuft
Drainage area	= 1.610 ac	Curve number	= 75*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.16 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.290 x 69) + (0.320 x 98)] / 1.610

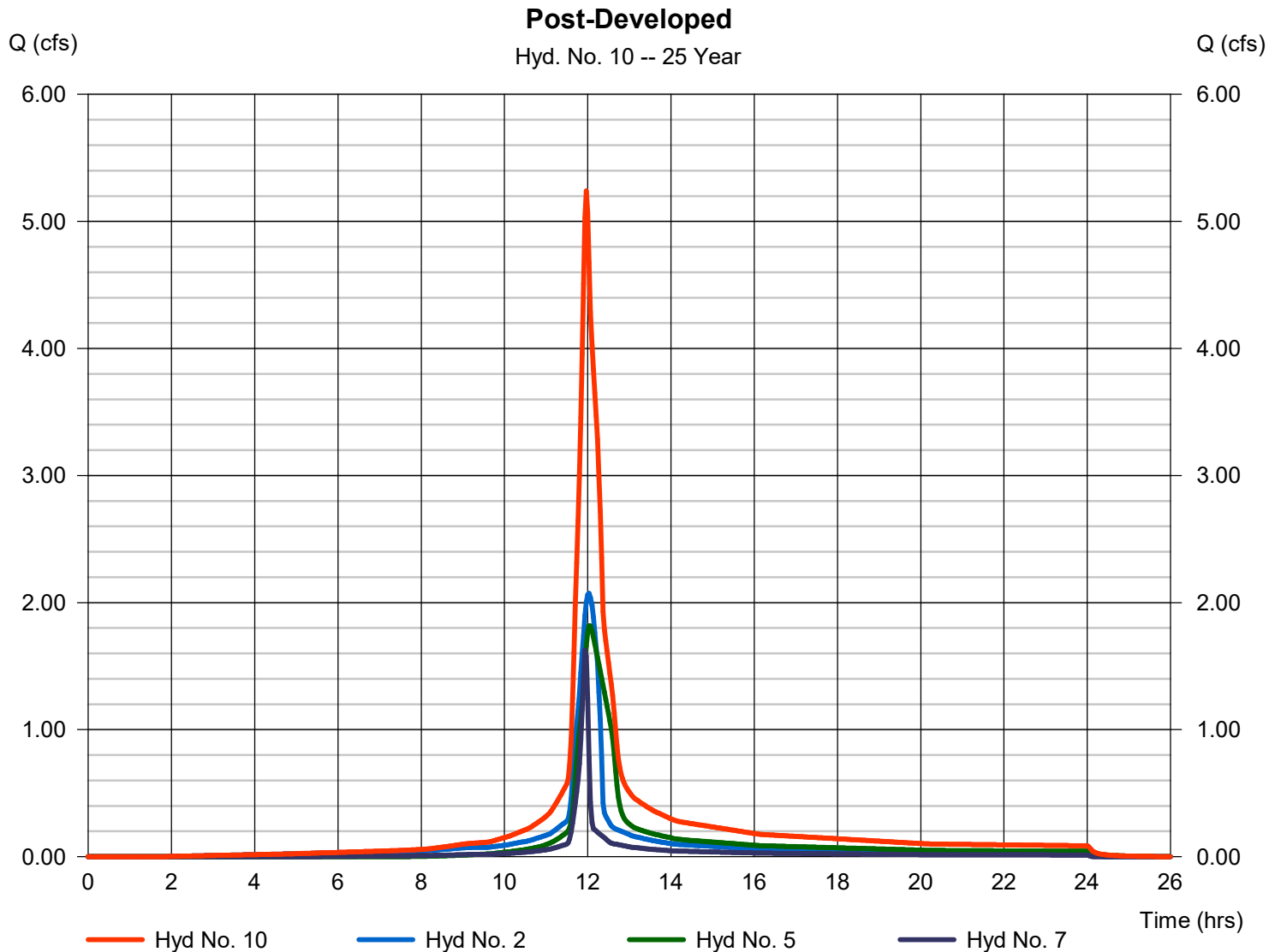


Hyd. No. 10

Post-Developed

Hydrograph type = Combine
Storm frequency = 25 yrs
Time interval = 2 min
Inflow hyds. = 2, 5, 7

Peak discharge = 5.240 cfs
Time to peak = 11.97 hrs
Hyd. volume = 21,220 cuft
Contrib. drain. area = 0.230 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

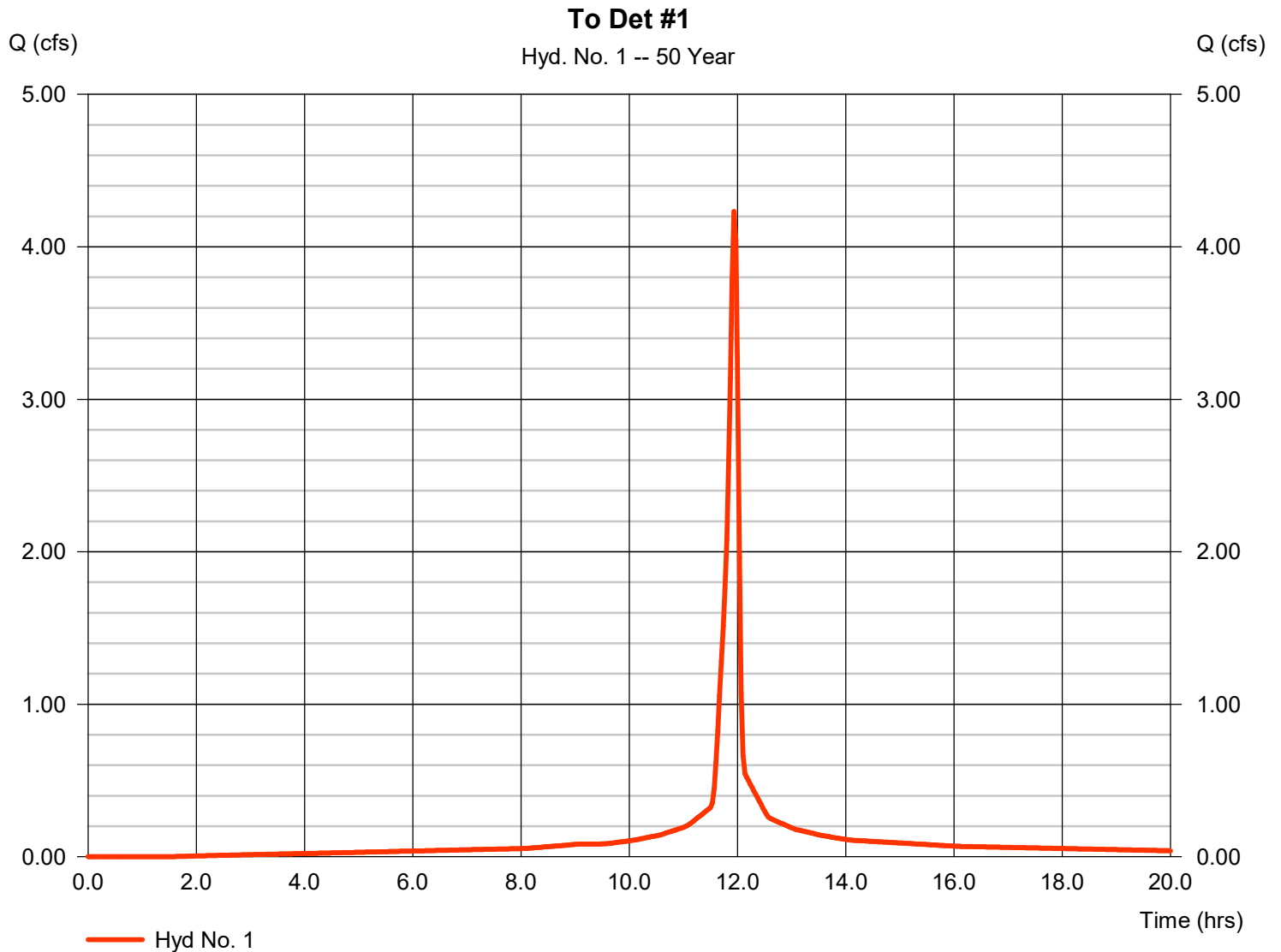
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	4.231	2	716	9,794	-----	-----	-----	To Det #1
2	Reservoir	2.175	2	722	9,794	1	429.68	1,466	After Det #1
4	SCS Runoff	5.224	2	716	10,666	-----	-----	-----	To Det #2
5	Reservoir	1.973	2	724	10,665	4	404.09	2,615	After Det #2
7	SCS Runoff	1.855	2	716	3,912	-----	-----	-----	Det Bypass
9	SCS Runoff	10.81	2	716	22,012	-----	-----	-----	Pre-Developed
10	Combine	5.700	2	718	24,370	2, 5, 7,	-----	-----	Post-Developed

Hyd. No. 1

To Det #1

Hydrograph type	= SCS Runoff	Peak discharge	= 4.231 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 9,794 cuft
Drainage area	= 0.460 ac	Curve number	= 95*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.85 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = $[(0.410 \times 98) + (0.050 \times 69)] / 0.460$

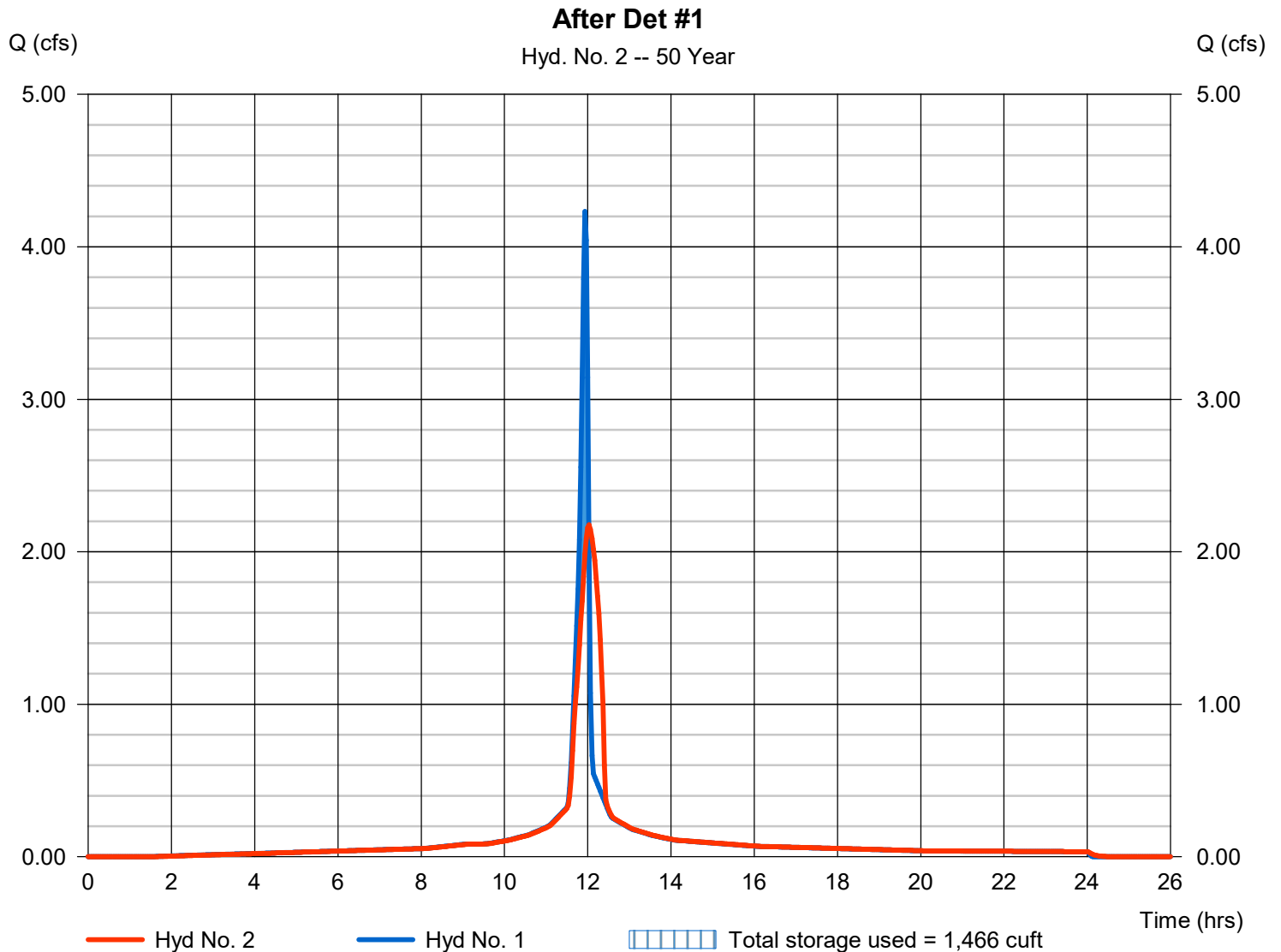


Hyd. No. 2

After Det #1

Hydrograph type	= Reservoir	Peak discharge	= 2.175 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 9,794 cuft
Inflow hyd. No.	= 1 - To Det #1	Max. Elevation	= 429.68 ft
Reservoir name	= Det Pond #1	Max. Storage	= 1,466 cuft

Storage Indication method used.

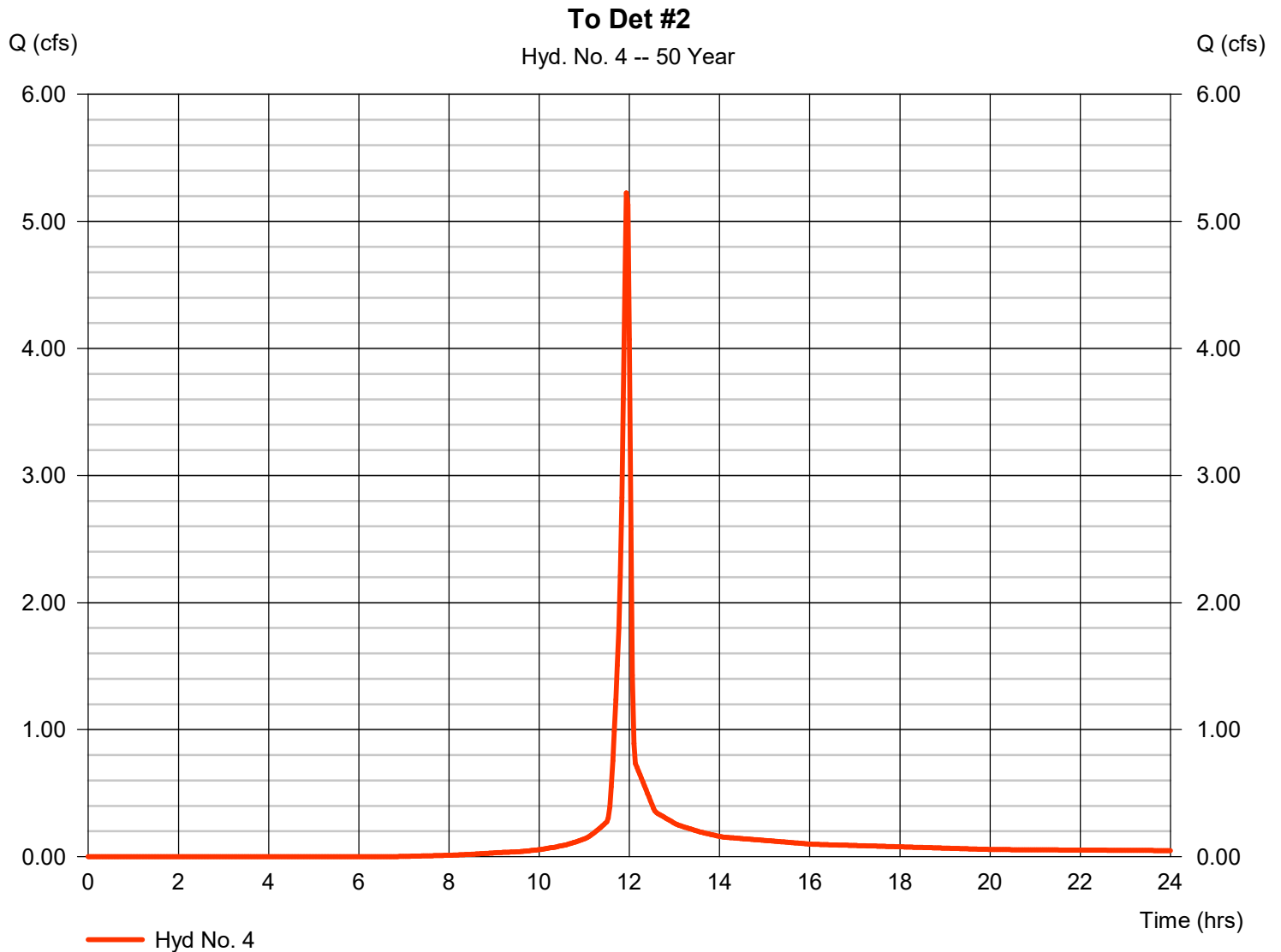


Hyd. No. 4

To Det #2

Hydrograph type	= SCS Runoff	Peak discharge	= 5.224 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 10,666 cuft
Drainage area	= 0.760 ac	Curve number	= 76*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.85 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.580 x 69) + (0.180 x 98)] / 0.760

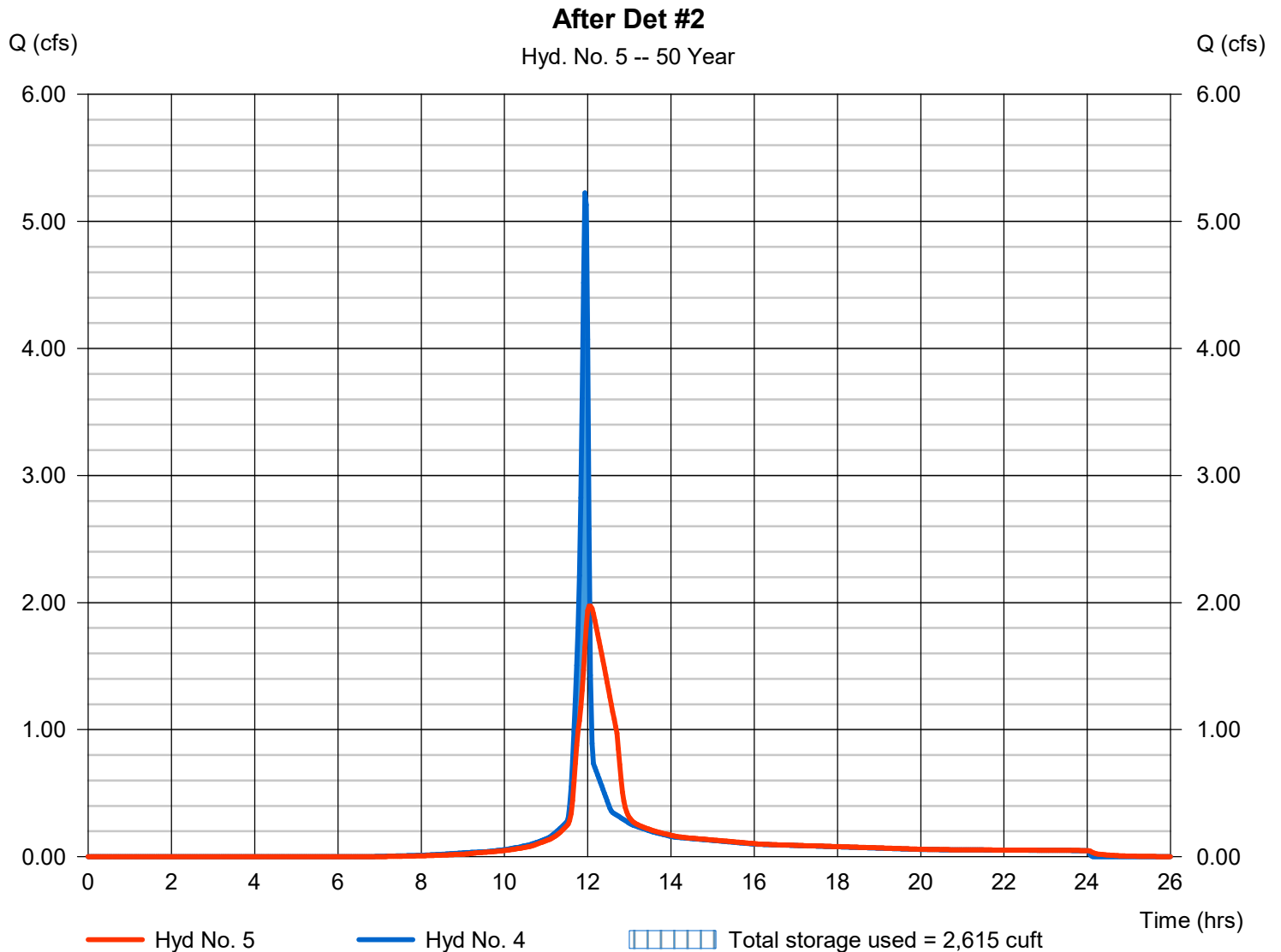


Hyd. No. 5

After Det #2

Hydrograph type	= Reservoir	Peak discharge	= 1.973 cfs
Storm frequency	= 50 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 10,665 cuft
Inflow hyd. No.	= 4 - To Det #2	Max. Elevation	= 404.09 ft
Reservoir name	= Det Pond #2	Max. Storage	= 2,615 cuft

Storage Indication method used.

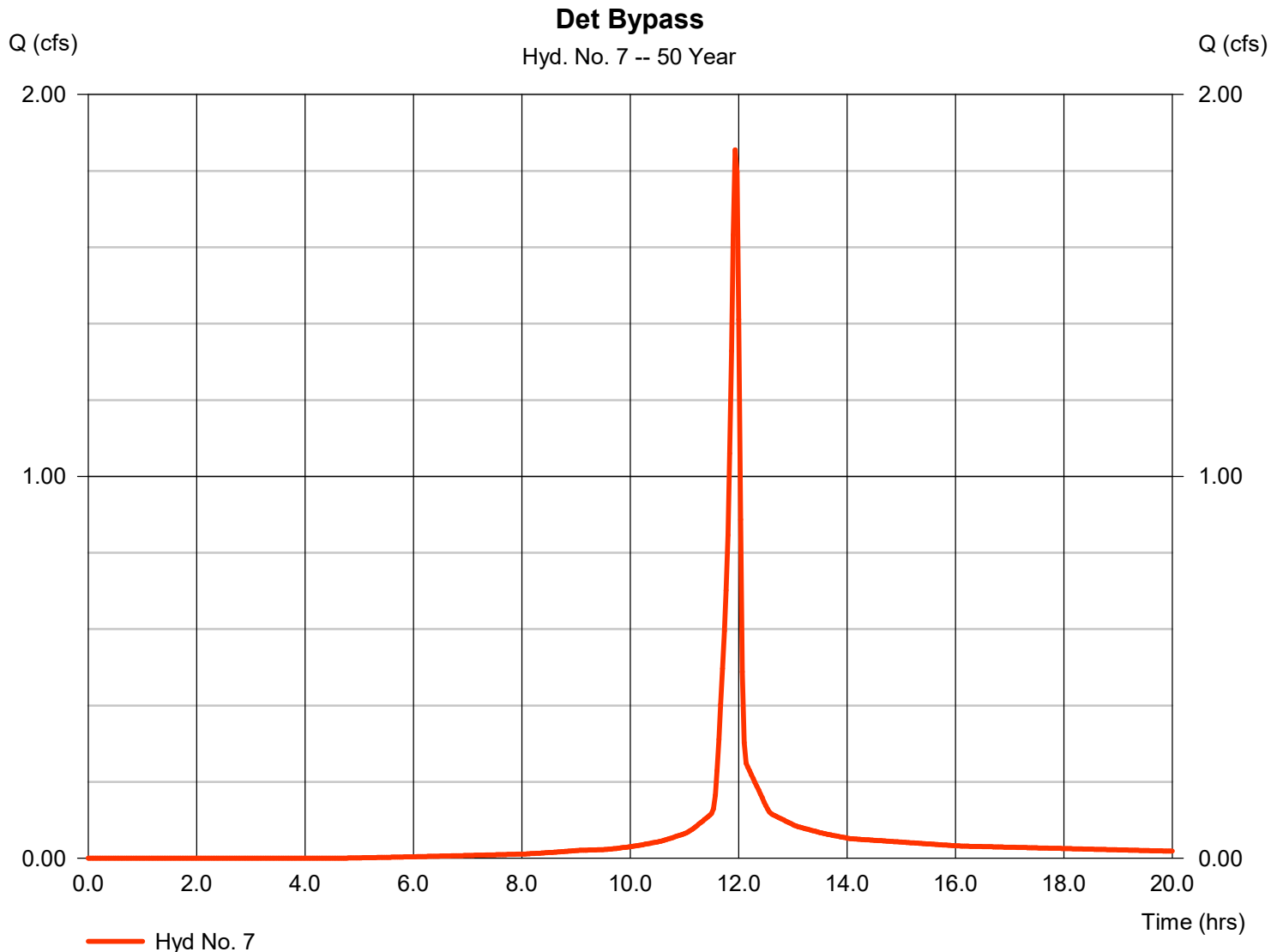


Hyd. No. 7

Det Bypass

Hydrograph type	= SCS Runoff	Peak discharge	= 1.855 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 3,912 cuft
Drainage area	= 0.230 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.85 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.120 x 98) + (0.110 x 69)] / 0.230

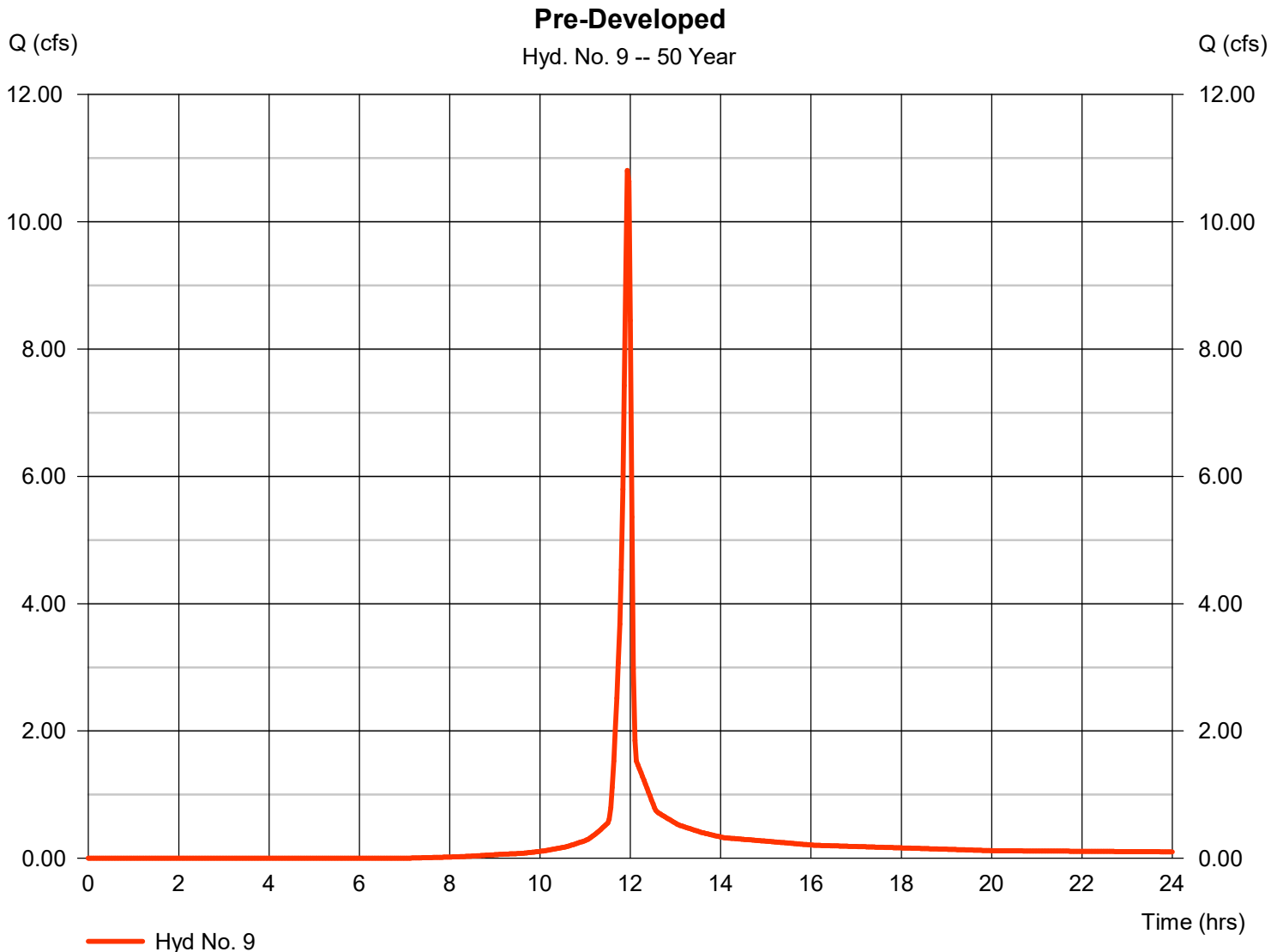


Hyd. No. 9

Pre-Developed

Hydrograph type	= SCS Runoff	Peak discharge	= 10.81 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 22,012 cuft
Drainage area	= 1.610 ac	Curve number	= 75*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 6.85 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.290 x 69) + (0.320 x 98)] / 1.610

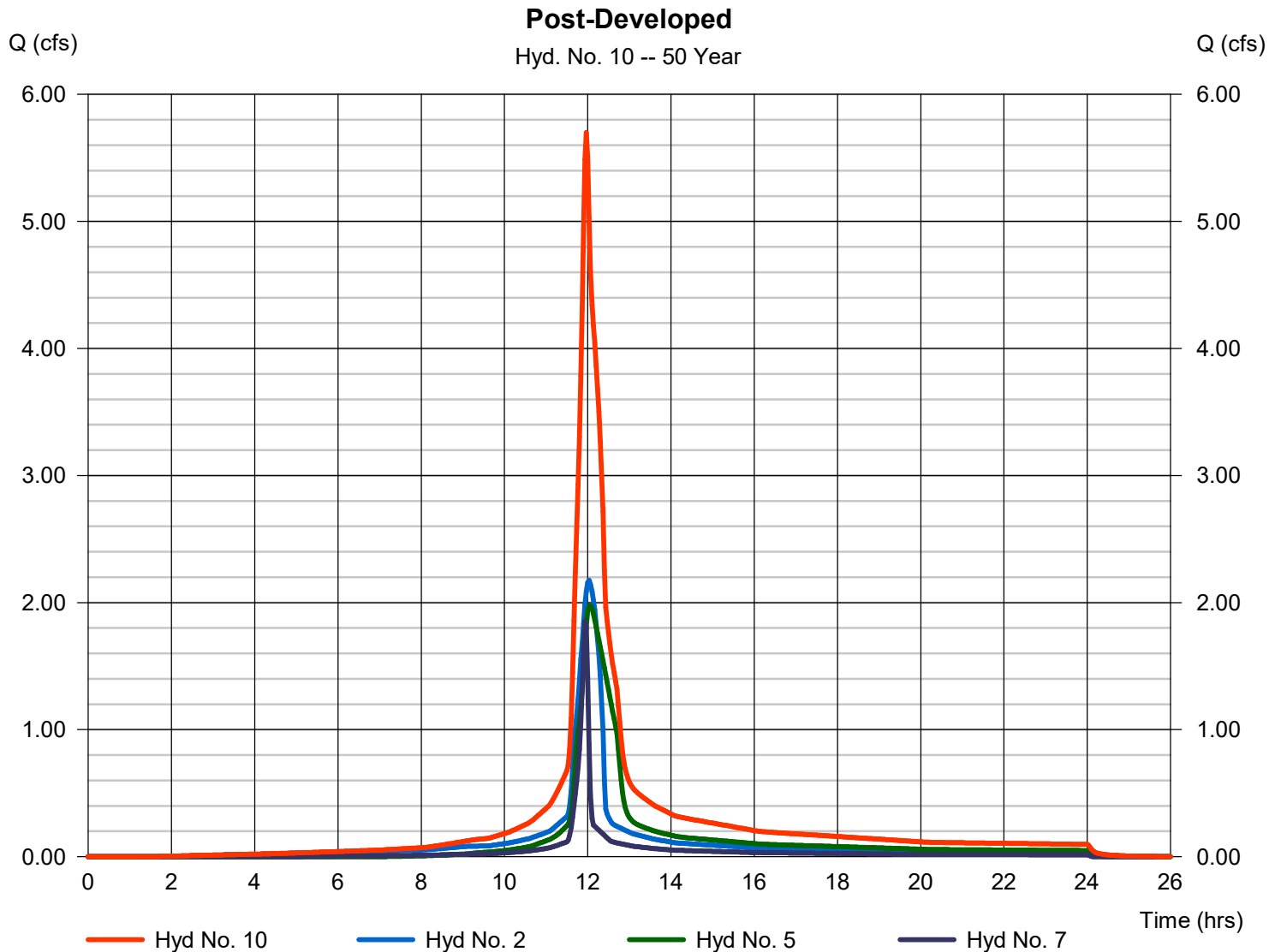


Hyd. No. 10

Post-Developed

Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 2, 5, 7

Peak discharge = 5.700 cfs
Time to peak = 11.97 hrs
Hyd. volume = 24,370 cuft
Contrib. drain. area = 0.230 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

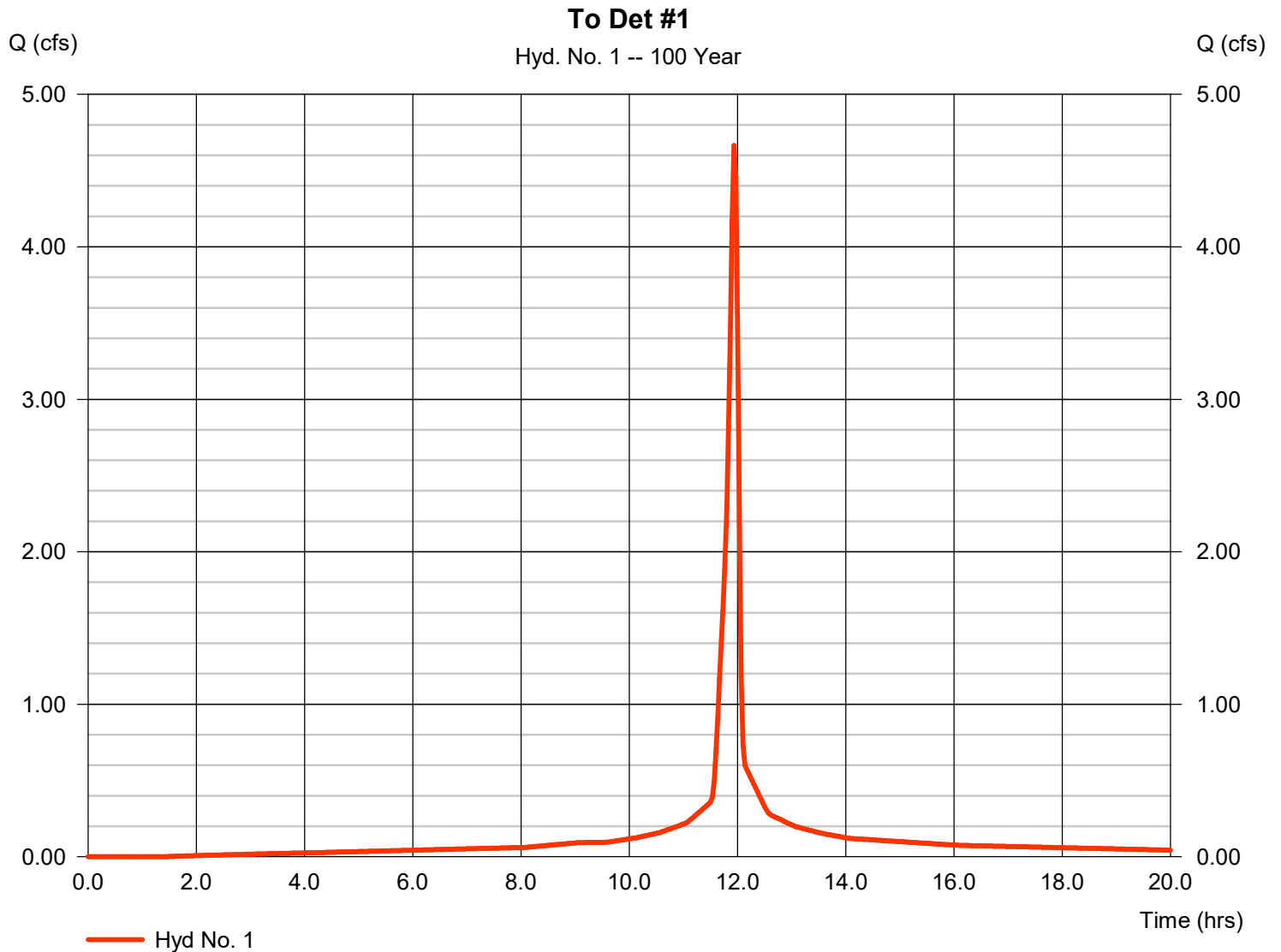
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	4.664	2	716	10,854	-----	-----	-----	To Det #1
2	Reservoir	2.275	2	722	10,853	1	430.00	1,732	After Det #1
4	SCS Runoff	5.965	2	716	12,239	-----	-----	-----	To Det #2
5	Reservoir	2.079	2	724	12,237	4	404.40	3,139	After Det #2
7	SCS Runoff	2.080	2	716	4,418	-----	-----	-----	Det Bypass
9	SCS Runoff	12.37	2	716	25,311	-----	-----	-----	Pre-Developed
10	Combine	6.136	2	718	27,509	2, 5, 7,	-----	-----	Post-Developed

Hyd. No. 1

To Det #1

Hydrograph type	= SCS Runoff	Peak discharge	= 4.664 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 10,854 cuft
Drainage area	= 0.460 ac	Curve number	= 95*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 7.53 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.410 x 98) + (0.050 x 69)] / 0.460

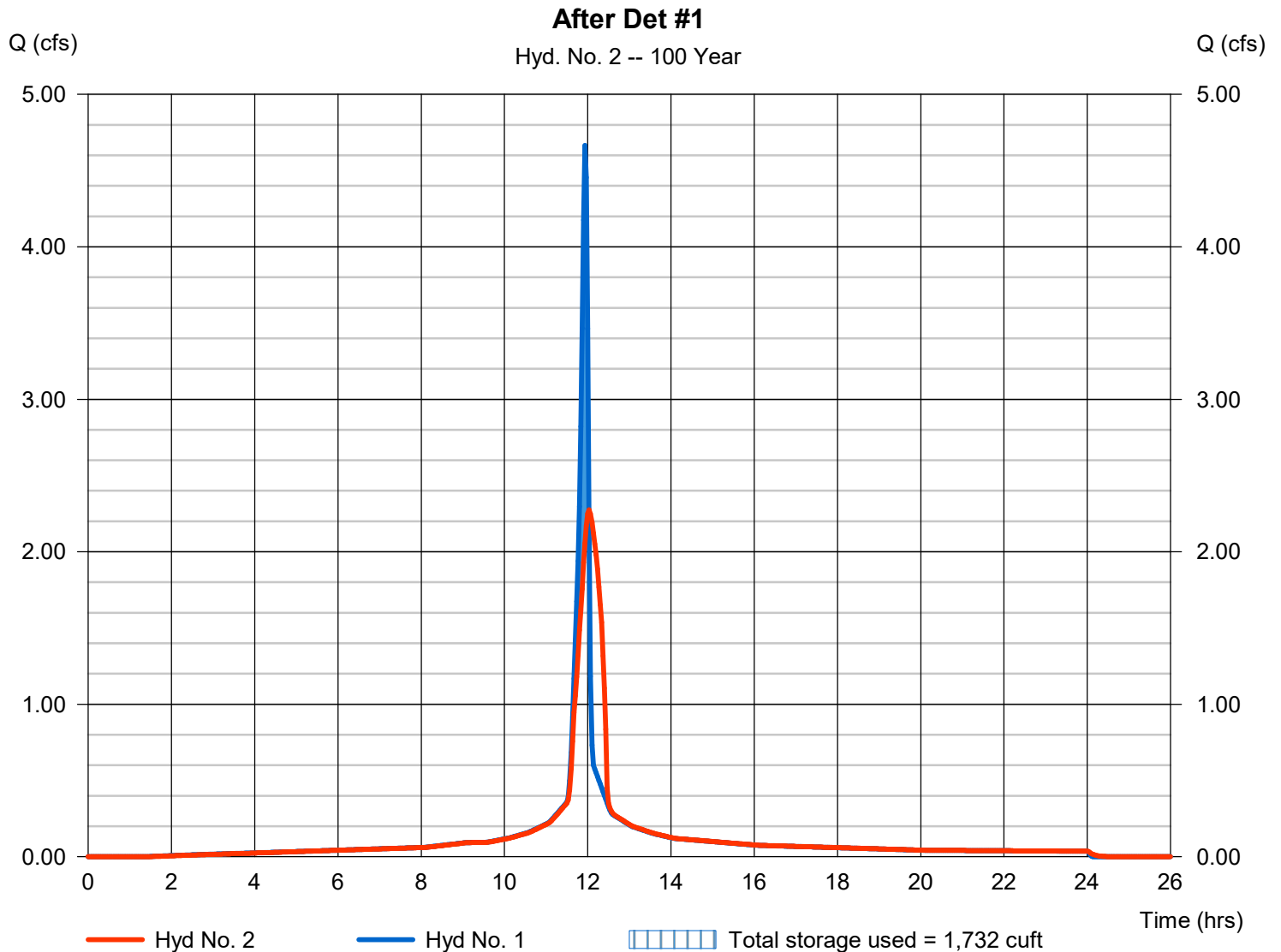


Hyd. No. 2

After Det #1

Hydrograph type	= Reservoir	Peak discharge	= 2.275 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.03 hrs
Time interval	= 2 min	Hyd. volume	= 10,853 cuft
Inflow hyd. No.	= 1 - To Det #1	Max. Elevation	= 430.00 ft
Reservoir name	= Det Pond #1	Max. Storage	= 1,732 cuft

Storage Indication method used.

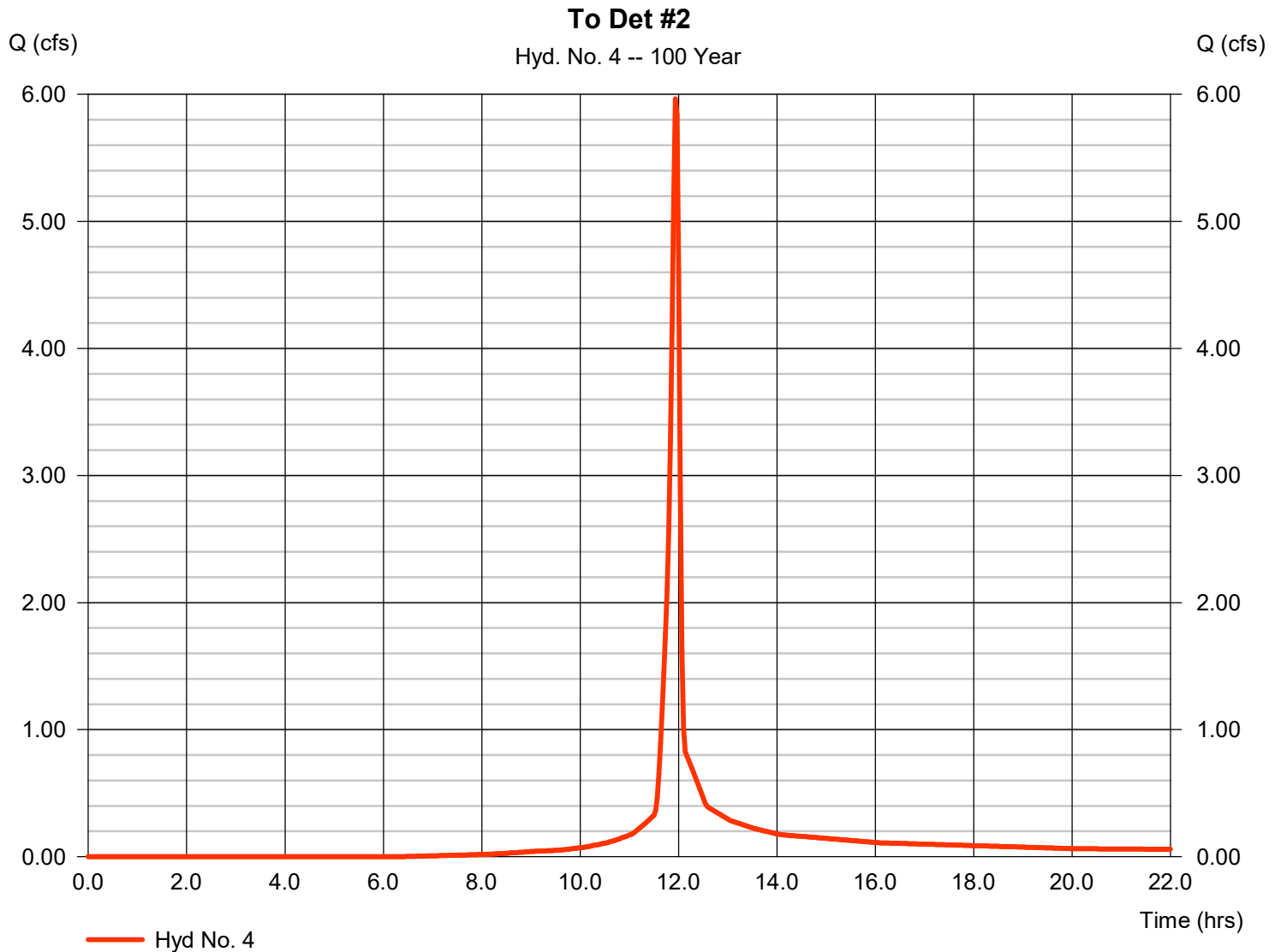


Hyd. No. 4

To Det #2

Hydrograph type	= SCS Runoff	Peak discharge	= 5.965 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 12,239 cuft
Drainage area	= 0.760 ac	Curve number	= 76*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 7.53 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.580 x 69) + (0.180 x 98)] / 0.760

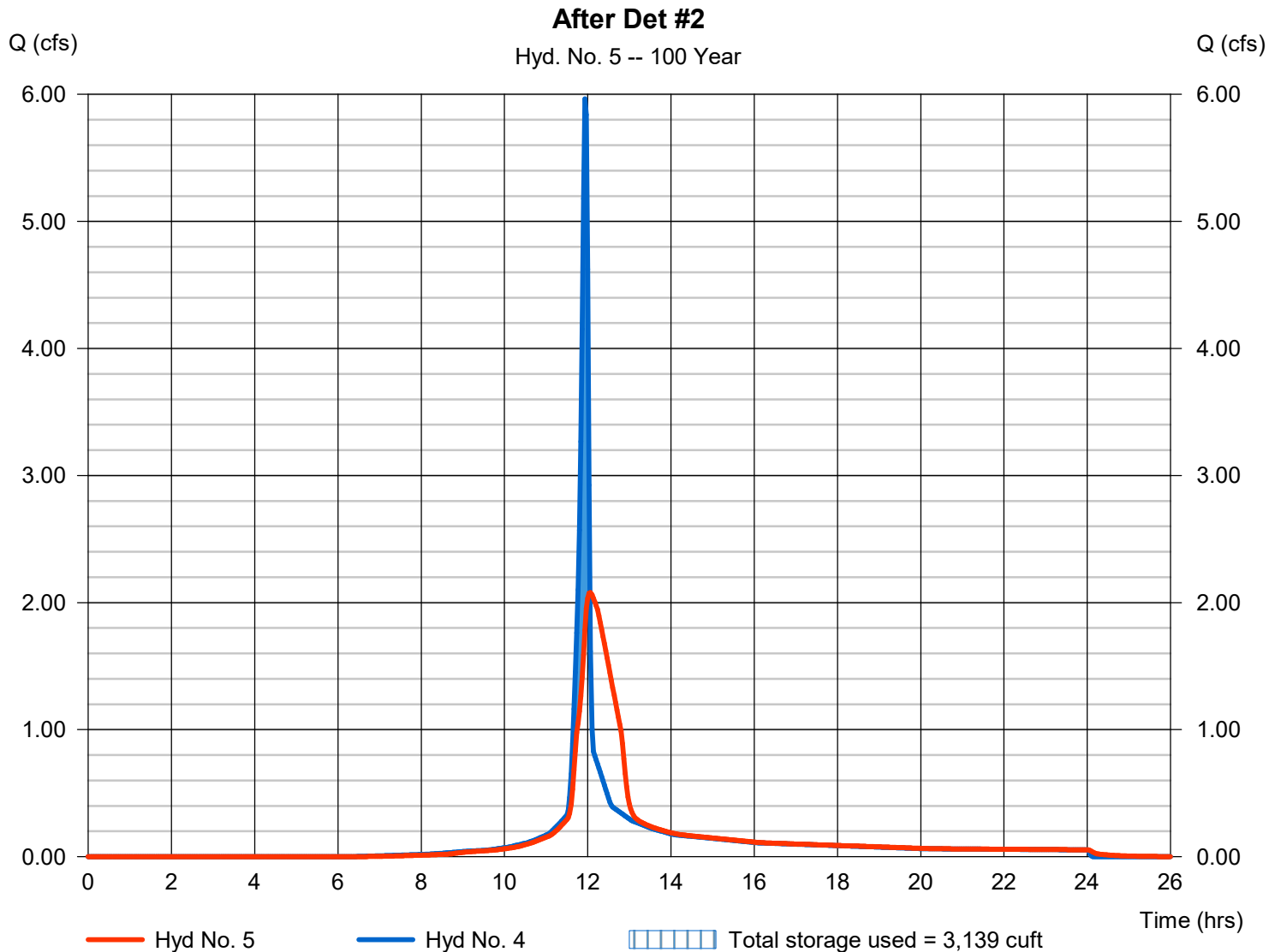


Hyd. No. 5

After Det #2

Hydrograph type	= Reservoir	Peak discharge	= 2.079 cfs
Storm frequency	= 100 yrs	Time to peak	= 12.07 hrs
Time interval	= 2 min	Hyd. volume	= 12,237 cuft
Inflow hyd. No.	= 4 - To Det #2	Max. Elevation	= 404.40 ft
Reservoir name	= Det Pond #2	Max. Storage	= 3,139 cuft

Storage Indication method used.

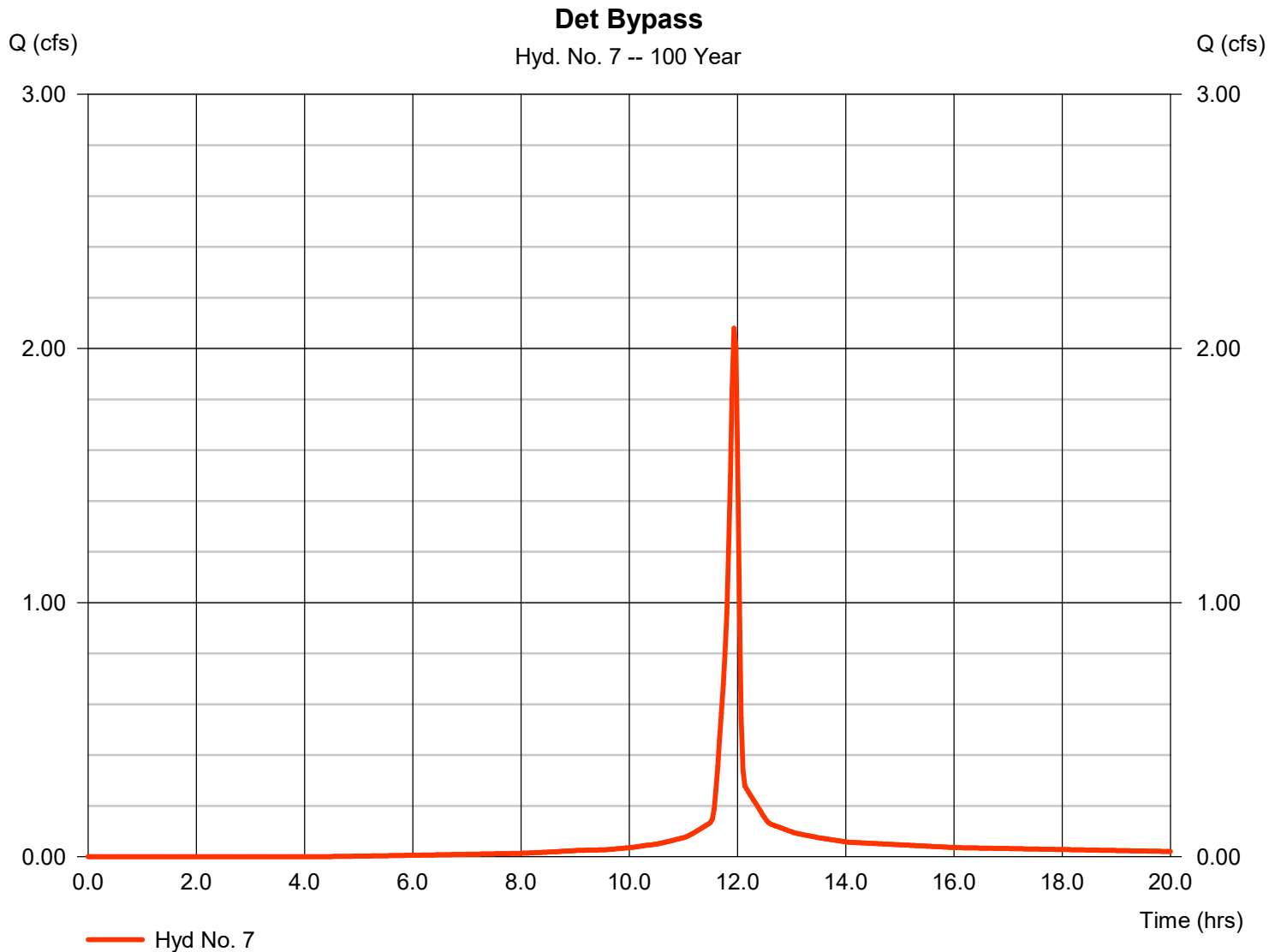


Hyd. No. 7

Det Bypass

Hydrograph type	= SCS Runoff	Peak discharge	= 2.080 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 4,418 cuft
Drainage area	= 0.230 ac	Curve number	= 84*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 7.53 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.120 x 98) + (0.110 x 69)] / 0.230

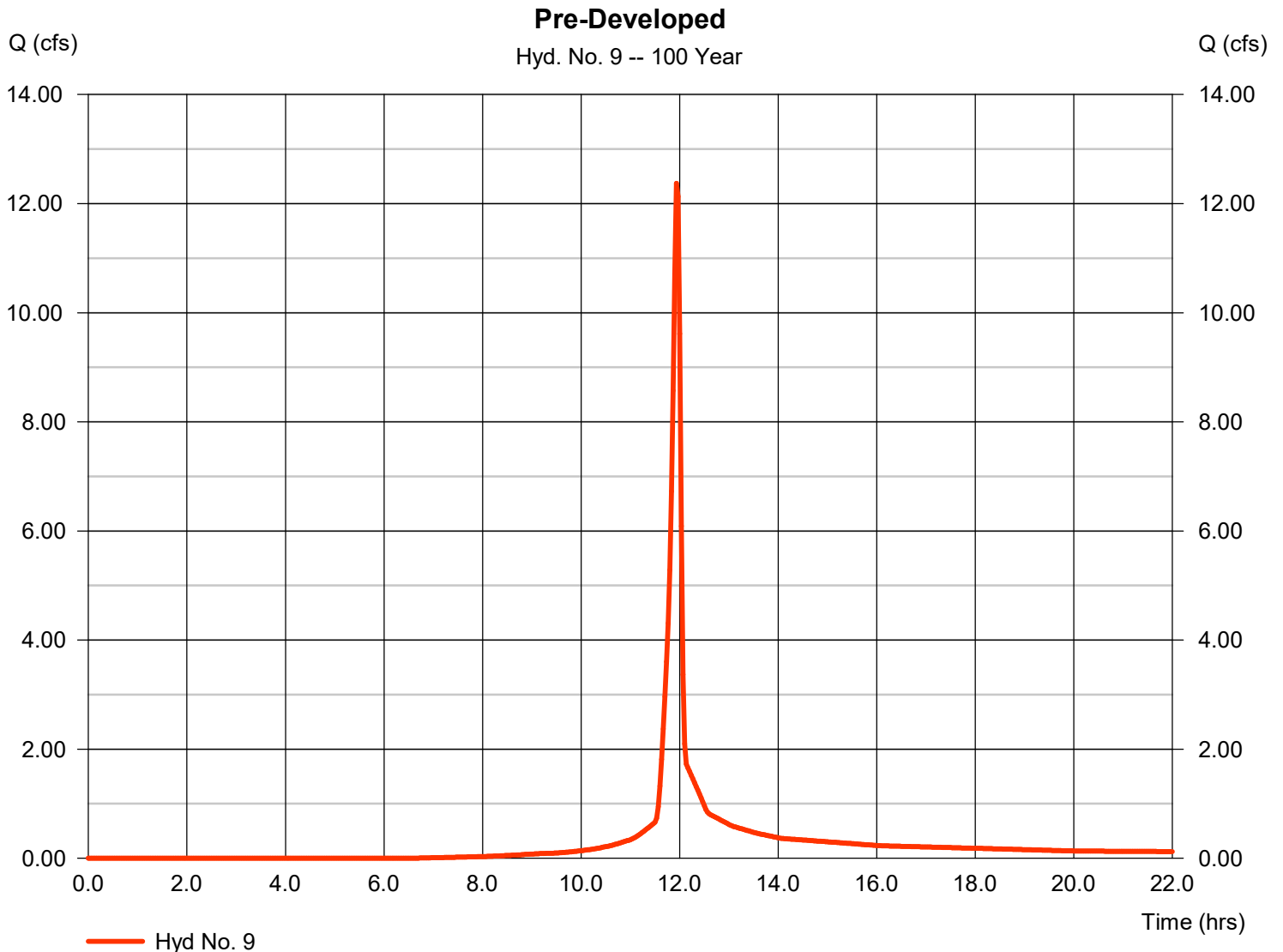


Hyd. No. 9

Pre-Developed

Hydrograph type	= SCS Runoff	Peak discharge	= 12.37 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 25,311 cuft
Drainage area	= 1.610 ac	Curve number	= 75*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 7.53 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.290 x 69) + (0.320 x 98)] / 1.610

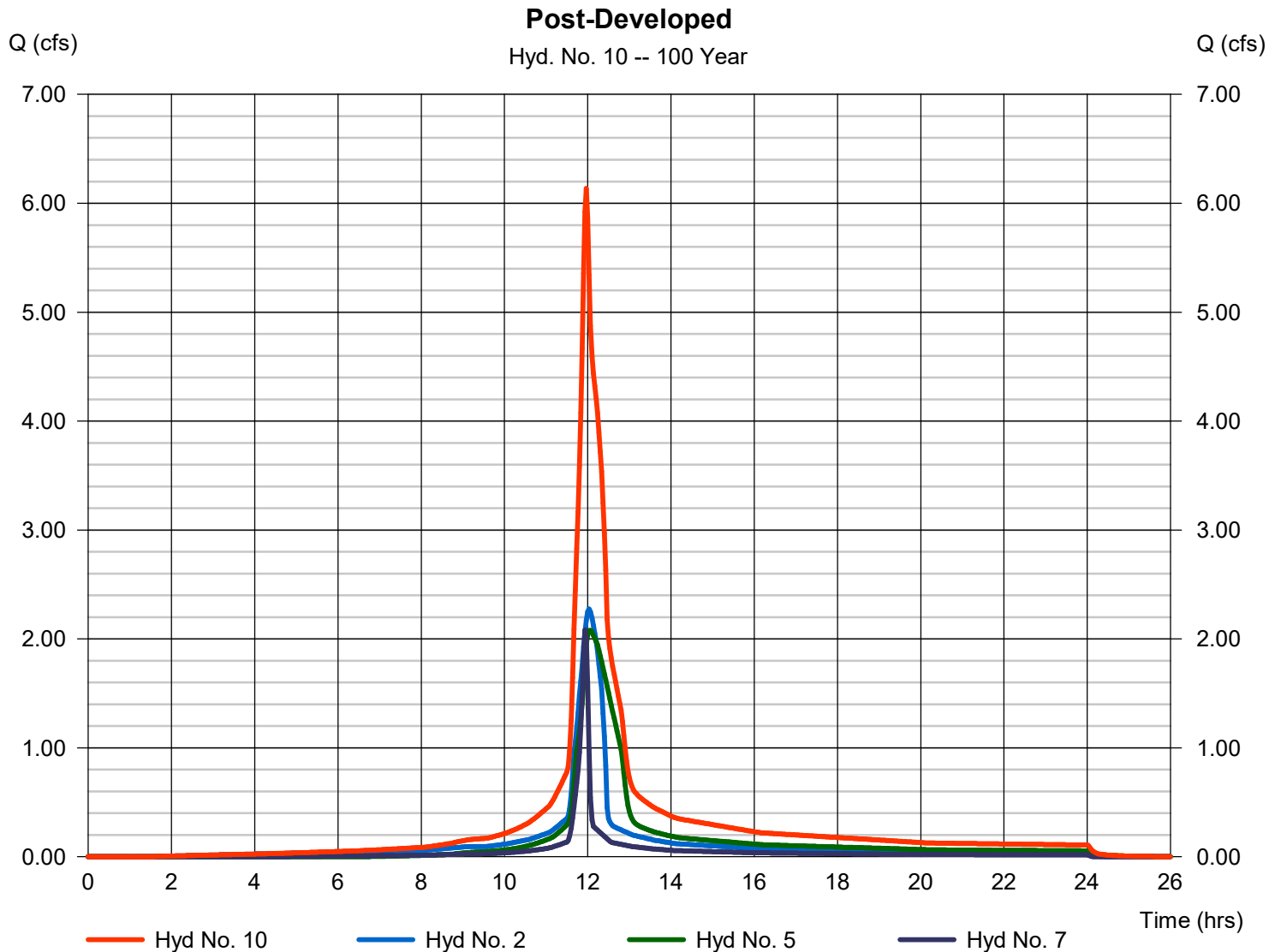


Hyd. No. 10

Post-Developed

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 2 min
Inflow hyds. = 2, 5, 7

Peak discharge = 6.136 cfs
Time to peak = 11.97 hrs
Hyd. volume = 27,509 cuft
Contrib. drain. area = 0.230 ac



Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	0.0000	0.0000	0.0000	-----
2	21.3913	5.8000	0.6332	-----
3	0.0000	0.0000	0.0000	-----
5	48.6847	10.2000	0.7544	-----
10	66.7072	12.5000	0.7892	-----
25	65.3872	11.5000	0.7499	-----
50	79.9547	12.2000	0.7718	-----
100	170.7963	18.2000	0.9117	-----

File name: Nashville_Rainfall Intensity.IDF

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4.74	3.73	3.13	2.73	2.44	2.22	2.04	1.90	1.78	1.68	1.59	1.51
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	6.25	5.04	4.27	3.72	3.32	3.00	2.75	2.54	2.36	2.21	2.08	1.97
10	6.97	5.72	4.88	4.28	3.82	3.46	3.17	2.93	2.73	2.55	2.40	2.27
25	7.99	6.55	5.60	4.92	4.40	4.00	3.67	3.40	3.17	2.98	2.81	2.66
50	8.90	7.31	6.25	5.48	4.90	4.45	4.08	3.78	3.52	3.30	3.11	2.94
100	9.72	8.13	7.01	6.17	5.51	4.99	4.56	4.20	3.90	3.64	3.41	3.21

Tc = time in minutes. Values may exceed 60.

File name: Z:\Projects\2607 Whites Creek Pike\1-Civil Engineering\Stormwater\Hydrographs\MWS Precipitation Data.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	0.00	3.39	0.00	4.50	5.23	6.16	6.85	7.53
SCS 6-Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-1st	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IV. USDA Soil Report

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Cheatham County, Tennessee



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

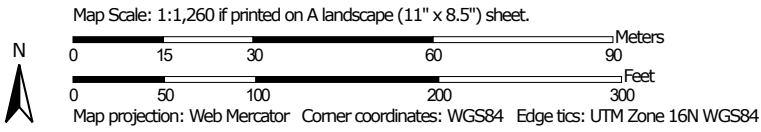
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map


The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Page 71
Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Cheatham County, Tennessee
 Survey Area Data: Version 16, Sep 15, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 21, 2021—Mar 30, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
En	Ennis gravelly silt loam, occasionally flooded	0.1	3.7%
HaC	Hawthorne gravelly silt loam, 5 to 12 percent slopes	1.8	54.3%
HsF	Hawthorne-Sulphura association, 20 to 60 percent slopes	1.4	42.0%
Totals for Area of Interest		3.3	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Cheatham County, Tennessee

En—Ennis gravelly silt loam, occasionally flooded

Map Unit Setting

National map unit symbol: kpd9
Elevation: 900 to 1,300 feet
Mean annual precipitation: 45 to 54 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 180 to 205 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Ennis and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ennis

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Parent material: Loamy alluvium derived from limestone, sandstone, and shale

Typical profile

H1 - 0 to 7 inches: gravelly silt loam
H2 - 7 to 60 inches: gravelly silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneOccasional
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: A
Ecological site: F122XY034TN - Well Drained Gravelly Alluvium
Hydric soil rating: No

HaC—Hawthorne gravelly silt loam, 5 to 12 percent slopes

Map Unit Setting

National map unit symbol: kpdf
Elevation: 900 to 1,300 feet
Mean annual precipitation: 48 to 55 inches

Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 185 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Hawthorne and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hawthorne

Setting

Landform: Hillslopes
Landform position (three-dimensional): Crest
Parent material: Gravelly residuum weathered from limestone and siltstone

Typical profile

H1 - 0 to 6 inches: gravelly silt loam
H2 - 6 to 33 inches: very channery silt loam
Cr - 33 to 43 inches: bedrock

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: 20 to 39 inches to paralithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: B
Ecological site: F122XY020TN - Cherty Limestone Escarpment
Hydric soil rating: No

HsF—Hawthorne-Sulphura association, 20 to 60 percent slopes

Map Unit Setting

National map unit symbol: 2v5c6
Elevation: 360 to 930 feet
Mean annual precipitation: 48 to 55 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 185 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Hawthorne and similar soils: 53 percent
Sulphura and similar soils: 32 percent
Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hawthorne

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Gravelly residuum weathered from limestone and siltstone

Typical profile

A - 0 to 6 inches: gravelly silt loam
Bw - 6 to 33 inches: very gravelly silt loam
Cr - 33 to 43 inches: bedrock

Properties and qualities

Slope: 20 to 60 percent
Depth to restrictive feature: 20 to 39 inches to paralithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: F122XY020TN - Cherty Limestone Escarpment
Hydric soil rating: No

Description of Sulphura

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Channery residuum weathered from limestone and shale

Typical profile

A - 0 to 10 inches: gravelly silt loam
Bw - 10 to 22 inches: very channery silt loam
R - 22 to 32 inches: bedrock

Properties and qualities

Slope: 20 to 60 percent
Depth to restrictive feature: 20 to 39 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: C

Ecological site: F122XY020TN - Cherty Limestone Escarpment

Hydric soil rating: No

Minor Components

Sengtown

Percent of map unit: 8 percent

Landform: Hills

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Crest

Down-slope shape: Convex

Across-slope shape: Convex

Hydric soil rating: No

Minvale

Percent of map unit: 7 percent

Landform: Hills

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

Across-slope shape: Concave

Hydric soil rating: No

References

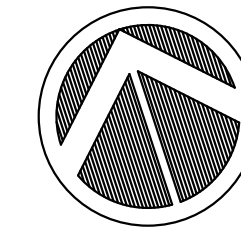
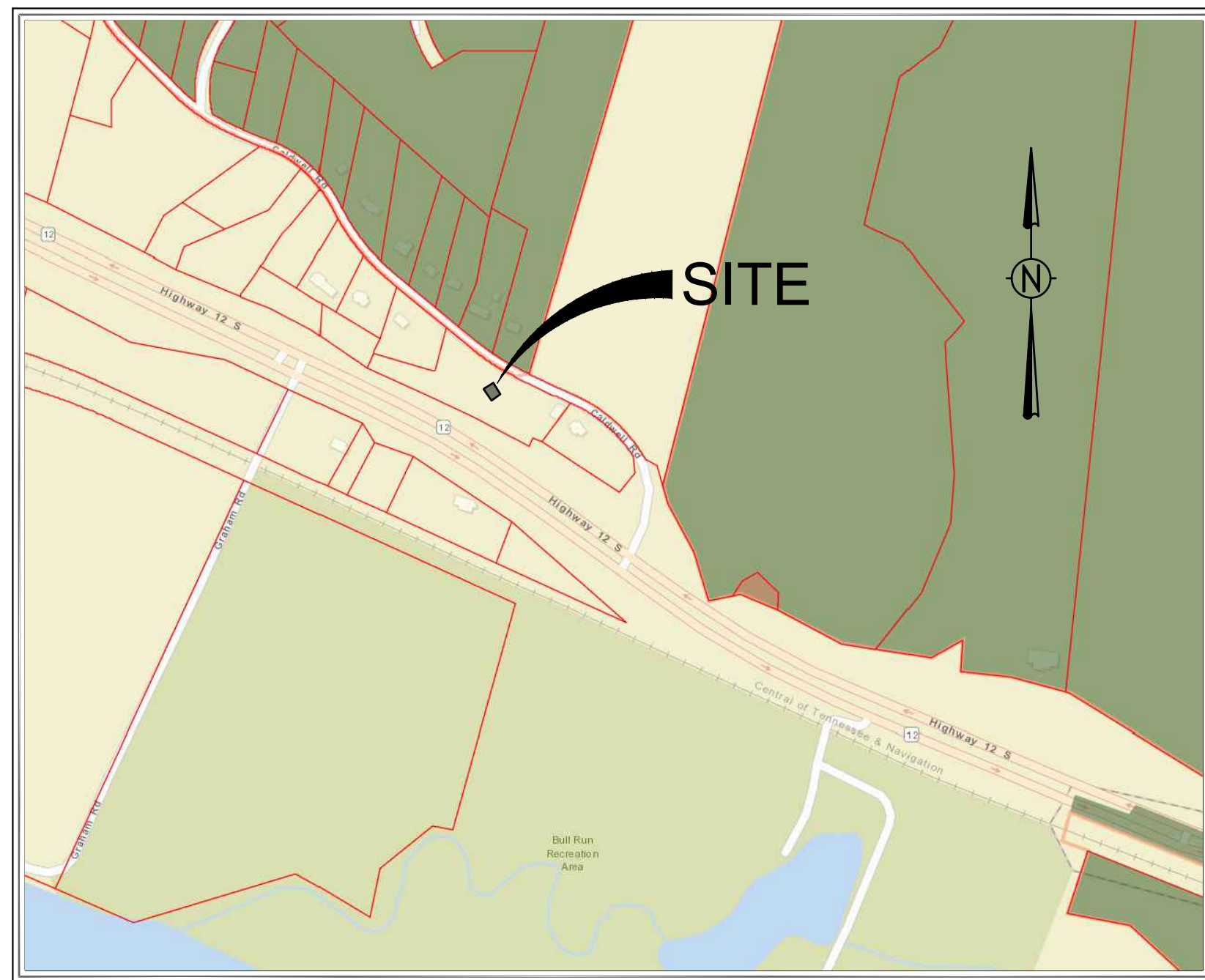
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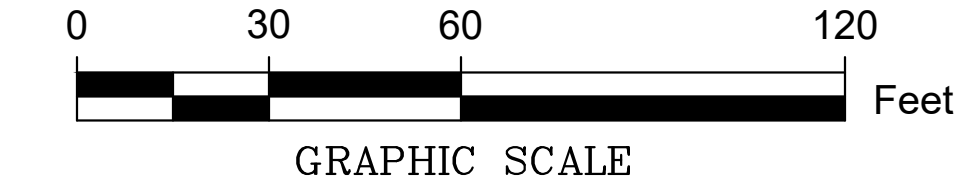
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VALLEY POINT HOMES CONSTRUCTION DRAWINGS FOR JIMMY BROOKS



TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988



SITE CONSTRUCTION NOTES

- The necessary permits for the work shown on these site development plans will be obtained by the contractor prior to commencement of any work on this project. The contractor shall give all necessary notices and obtain all permits and pay all fees involved in securing said permits. He shall also comply with all city, county and state building laws, ordinances or regulations relating to the construction of the project.
- The contractor shall be responsible for and shall bear all expenses of field staking necessary for site and building layout. All layout shall be performed in accordance with the site layout plan.
- The location of existing piping and underground utilities, such as water and gas lines, electrical and telephone conduits, etc., as shown on this portion of the plans have been determined from the best available information by actual surveys, or taken from the records and drawings of the existing utilities. However, the civil engineer does not assume responsibility that, during construction, the possibility of utilities other than

those shown may be encountered or that actual location of those shown may vary somewhat from the location designated on this portion of the plans. In areas where it is necessary that the exact locations of underground lines be known, the contractor shall, at his own expense, furnish all labor and tools to either verify and substantiate or definitively establish the location of the lines.

- The contractor must understand that the work is entirely at his risk until same is accepted and he will be held responsible for its safety by the owner. Therefore, the contractor shall furnish and install all necessary temporary works for the protection of the work, including barricades, warning signs, and lights.
- The site development portion of this project will be subject to the inspection and final approval of the local planning, codes, water and sewer departments (and/or utility districts), engineering/public works departments and fire marshal's office.

- If, during the construction of the site development portion of this project, a question of intent or clarity arises from either the plans or specifications, the contractor will immediately bring the

matter to the attention of the civil engineer or owner's representative for resolution before the affected work items are initiated or pursued further.

- The contractor will exercise extreme caution in the use of equipment in and around overhead and/or underground power lines. If at any time in the pursuit of this work the contractor must work in close proximity of the above-noted lines, the electric and/or telephone companies shall be contacted prior to such work and the proper safety measures taken. The contractor should make a thorough examination of the overhead lines in the project area prior to the initiation of construction.

- The contractor shall be responsible for any damage done to the premises or adjacent premises, or injuries to the public during the construction of the work, caused by himself, his subcontractors, or the carelessness of any of his employees.

- Any offsite work to be coordinated by contractor with subject property owner prior to the work beginning.

LEGEND

---	PROPERTY LINE
X - X	EXISTING FENCE
OHE - OHE	EXISTING OVERHEAD POWER LINE
SA - SA	EXISTING SANITARY SEWER
ST - ST	EXISTING STORM SEWER
W - W	EXISTING WATER LINE
[Symbol]	EXISTING PUBLIC ROAD
[Symbol]	ASPHALTIC CONCRETE
[Symbol]	PRIVATE DRIVE
[Symbol]	DETENTION POND
[Symbol]	GRASS STRIP/ GREEN SPACE
[Symbol]	CONCRETE SIDEWALK
[Symbol]	PROPOSED BUILDING
[Symbol]	BUFFER ZONE



DEVELOPMENT / SITE DATA TABLE	
REGULATORY ZONING REQUIREMENT - ASHLAND CITY	
TAX MAP / PARCEL	64/11.01
ZONING	R-4
TOTAL AREA	88,583 SF / 2.03 AC
UNIT DENSITY	8.9 / AC
FRONT SETBACK	35 FT
REAR SETBACK	20 FT
MAX LOT COV. (MAX / PROVIDED)	40% / 19.7%
HEIGHT STANDARDS	3 STORIES
RESIDENTIAL UNIT SUMMARY	
NO. SINGLE FAMILY UNITS	8 UNITS
NO. DUPLEX UNITS	10 UNIT/AC
TOTAL UNITS	18 UNITS
UNIT DENSITY	8.9 / AC
DEVELOPMENT AREAS	
OPEN SPACE	43,455 SF / 1.00 AC
STREAM BUFFER	13,439 SF / 0.31 AC
BLD FOOTPRINT	17,440 SF / 0.40 AC
PAVEMENT	14,249 SF / 0.33 AC
BLD GROSS FLOOR AREA	31,800 SF / 0.73 AC
FAR	36%

Sheet List Table	
Sheet Number	Sheet Title
C1.0	SITE PLAN
C2.0	EXISTING CONDITIONS
C3.0	EROSION CONTROL
C3.1	EPSC DETAILS
C4.0	GRADING & DRAINAGE
C5.0	UTILITY PLAN

Williams Engineering
Plan - Design - Build
Nashville: 866.679.6992 | mwilliams@wv-design.com

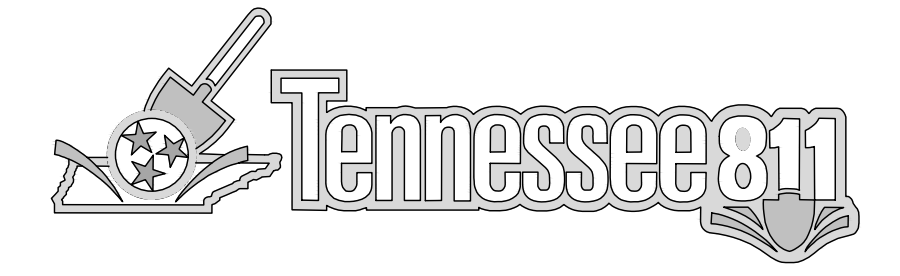


VALLEY POINT HOMES
FOR
JIMMY BROOKS
0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE
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-	-
-	-
-	-
-	-

DESIGNED BY: MLW
DATE: 2/23/2023
SCALE: 1"=30'
JOB #: 20230210-1

SITE PLAN
C1.0





VALLEY POINT HOMES
FOR
JIMMY BROOKS
0 CALDWELL ROAD ASHLAND CITY, TN 37015

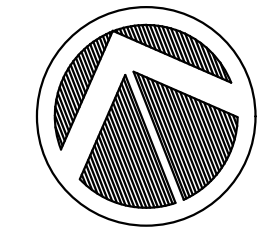
REVISIONS	DATE

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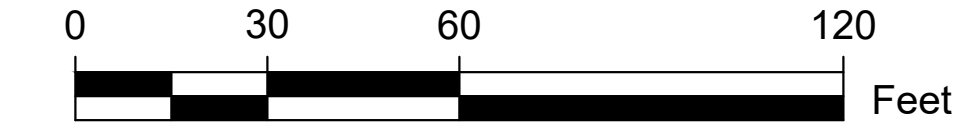
EXISTING CONDITIONS
C2.0

EXISTING CONDITIONS & DEMO NOTES

- The contractor will be required to remove all excavated materials and such items shall become the property of the contractor. All items shall be properly disposed of at an off-site location. The contractor shall outline any and all possible haul routes and shall be prepared to submit such to the local jurisdiction public works department, the civil engineer and other authorities for approval.
- If, at any time, prior to or during the demolition work, hazardous material is encountered, the contractor shall notify the owner's representative and appropriate governmental agency.
- The contractor shall notify adjacent owners of work that may affect their property, potential noise, utility outage or disruption. Such operations shall be conducted by the contractor with minimum interference to adjacent owners. Adjacent egress and access shall be properly maintained at all times. Do not close or obstruct any roadways, parking or sidewalks without permission from the adjacent owners or the local jurisdiction public works department.
- Prior to the commencement of demolition/grading operations, all overhead and underground utilities shall be located. All removal and/or relocation of utilities shall be coordinated with the respective utility companies.
- The contractor will provide all necessary protective measures to safeguard existing utilities from damage during construction of this project. In the event that special equipment is required to work over or around the utilities, the contractor will be required to furnish such equipment at no additional cost to owner.
- The contractor will be solely responsible for contacting all affected utilities prior to submitting his bid to determine the extent to which utility disconnections and/or adjustments will have upon the schedule of the work for the project. Some utility facilities may need to be adjusted concurrently with the contractor's operations, while some work may be required around utility facilities that will remain in place. It is understood and agreed that the contractor will receive no additional compensation for delays or inconvenience caused by the utility adjustment.



TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988

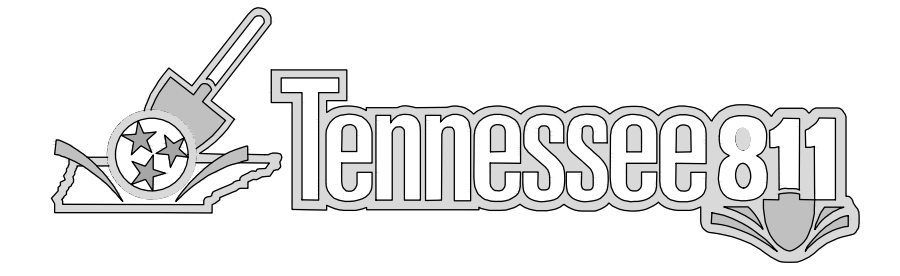


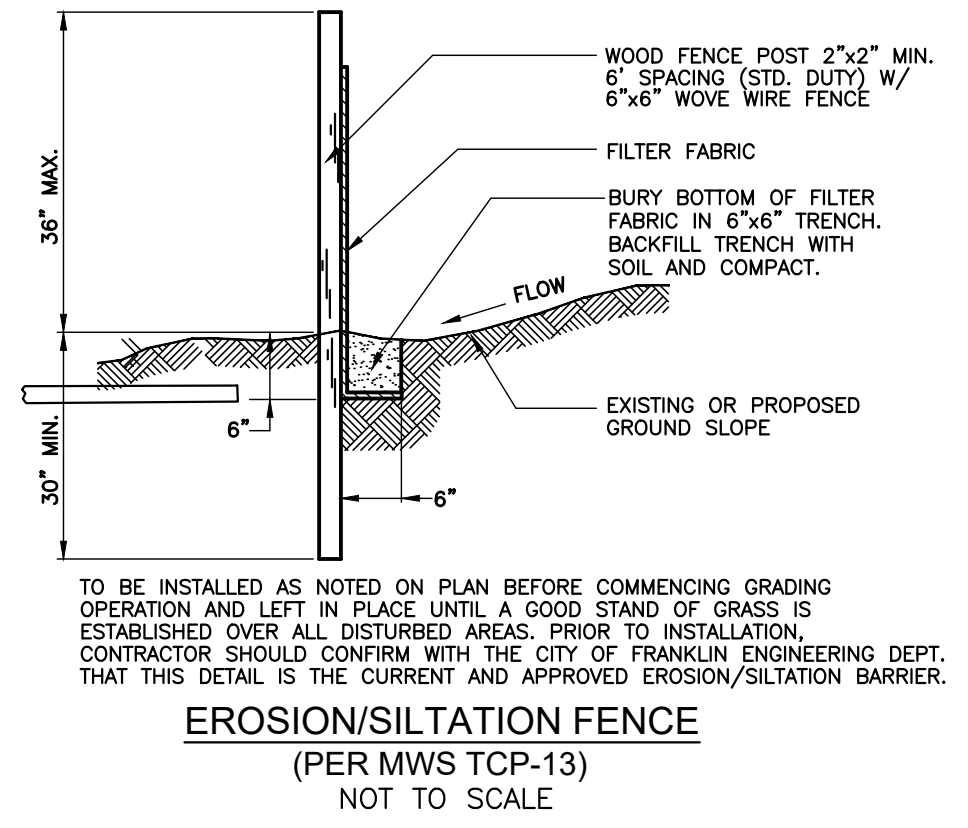
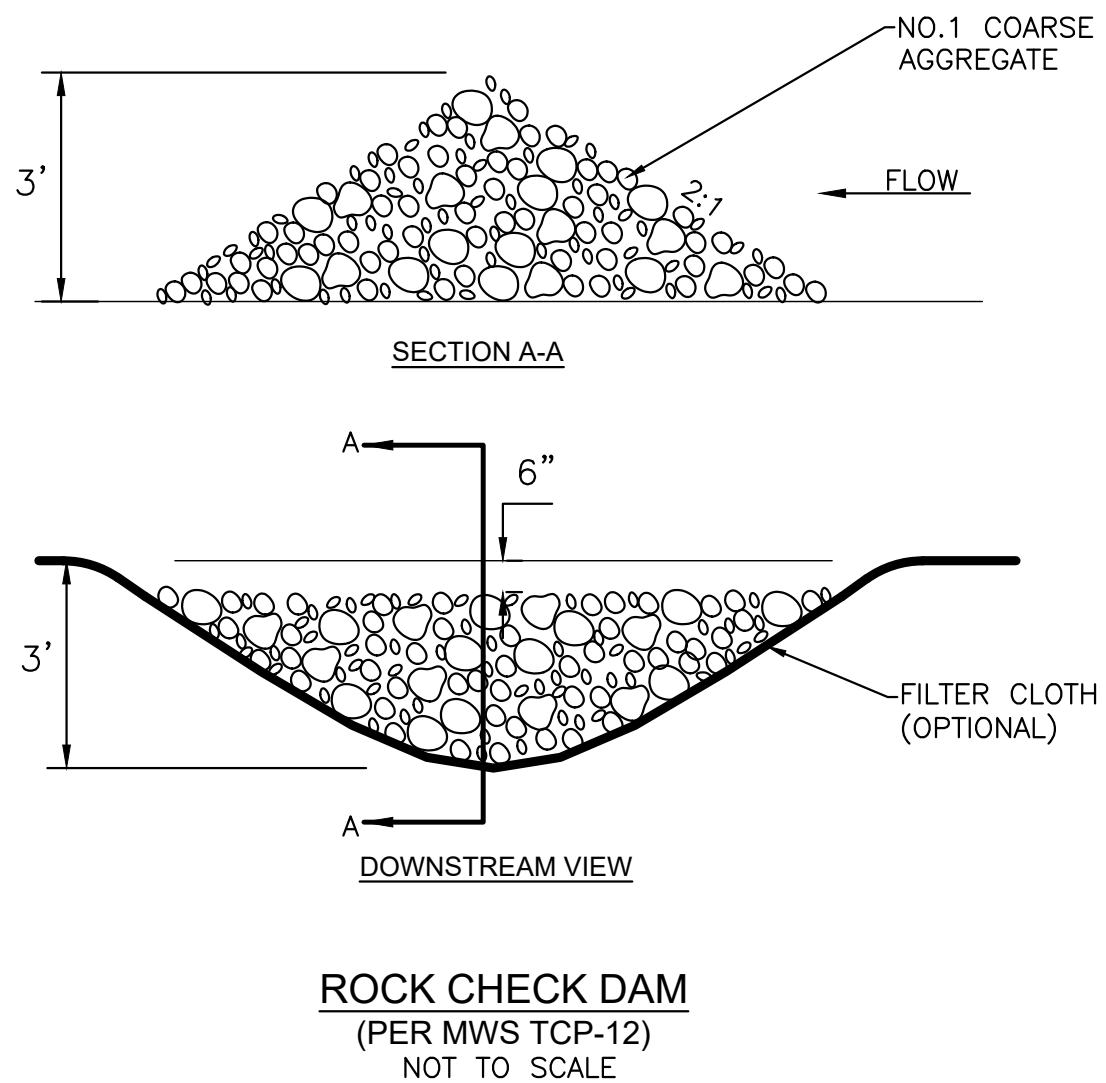
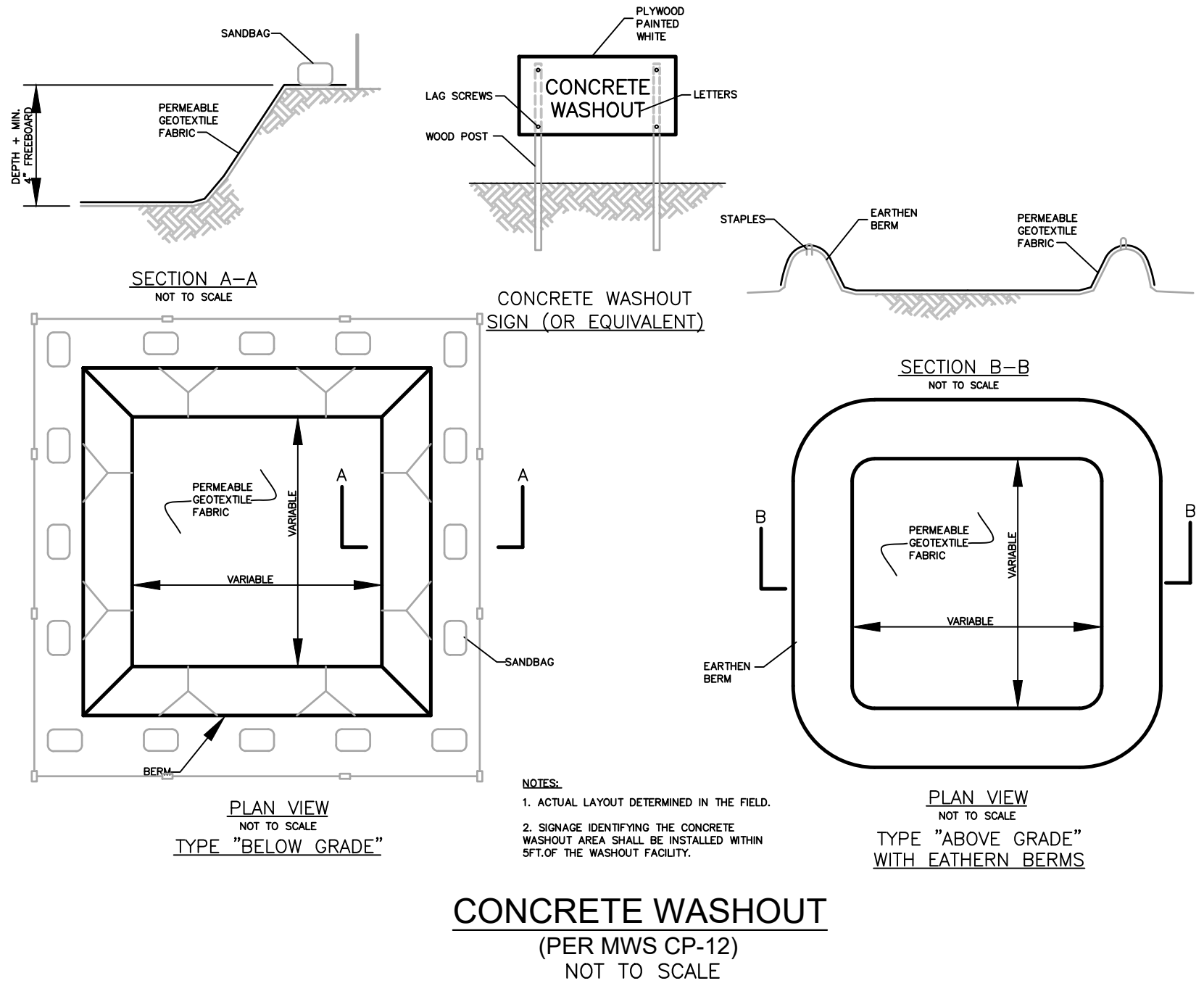
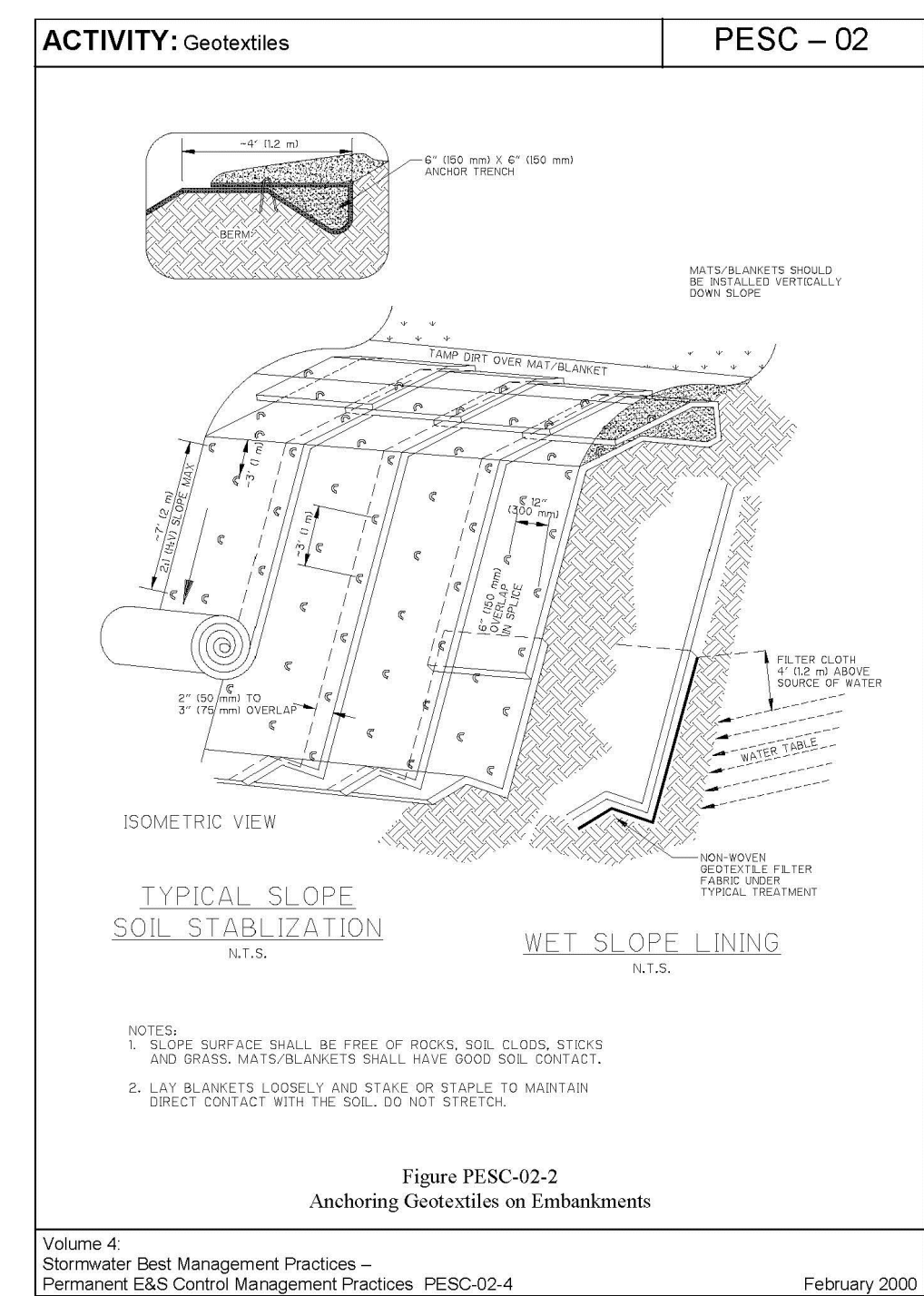
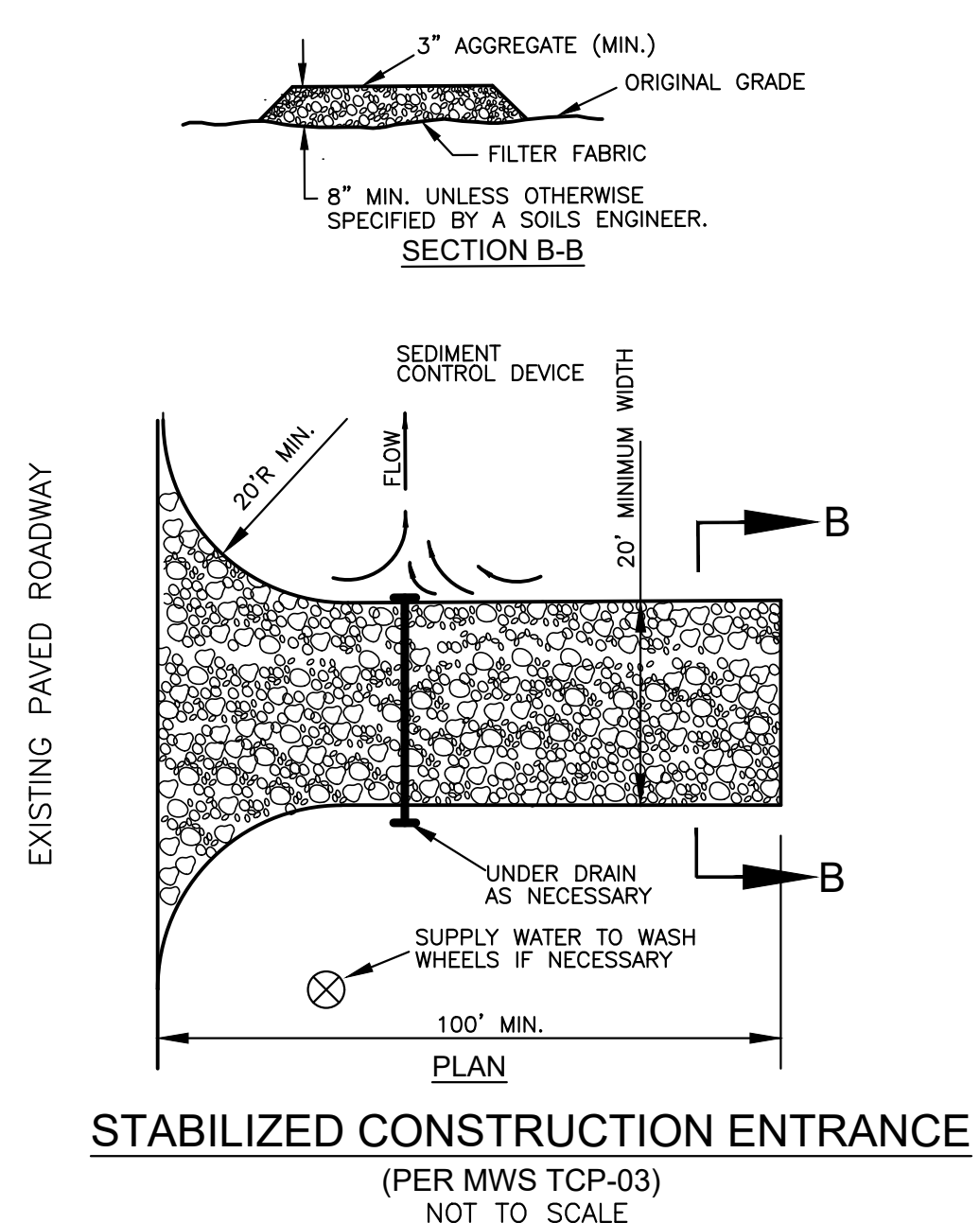
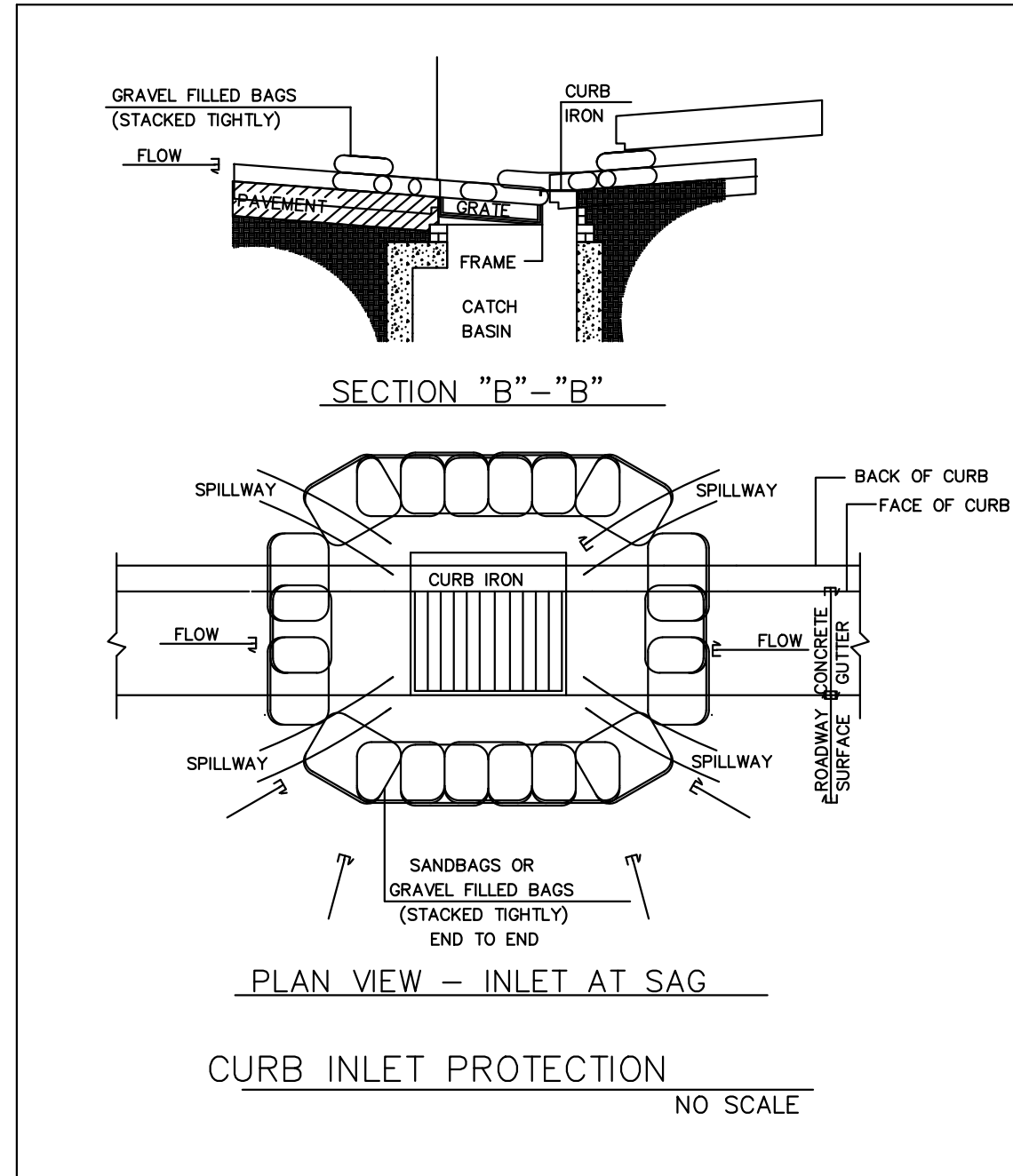
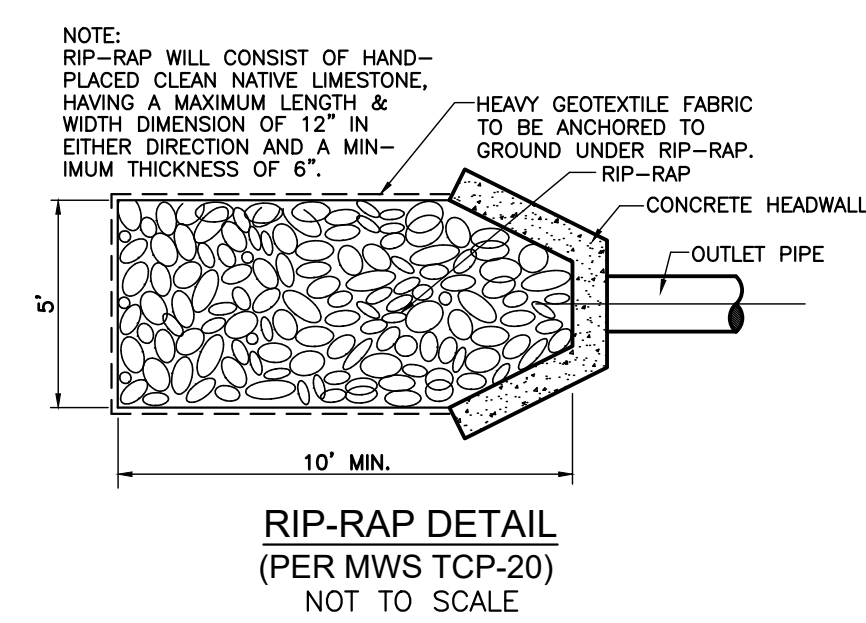
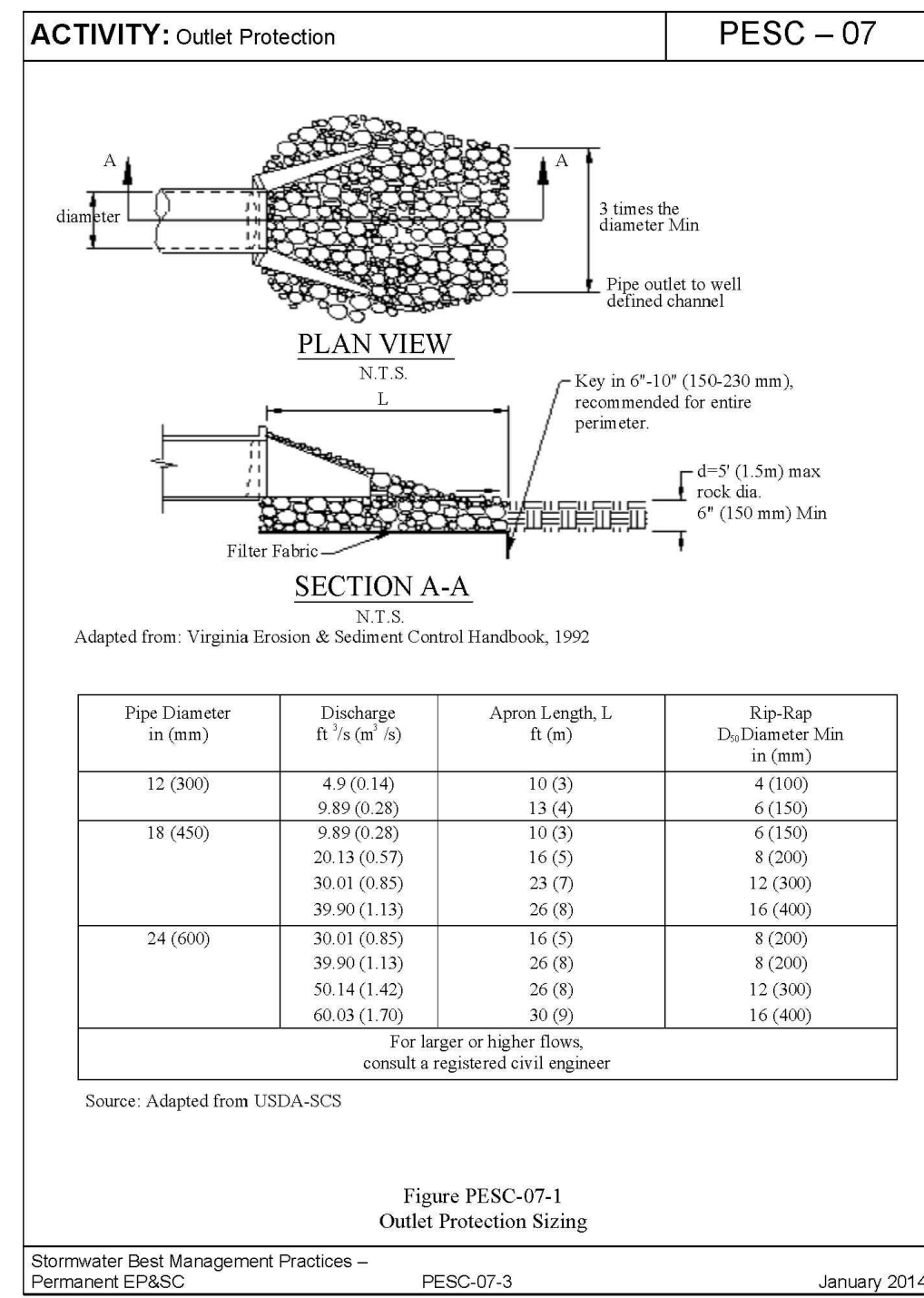
GRAPHIC SCALE

LEGEND	
---	PROPERTY LINE
-X-X-	EXISTING FENCE
-OHE-	EXISTING OVERHEAD POWER LINE
-SA-SA-	EXISTING SANITARY SEWER
-ST-ST-	EXISTING STORM SEWER
-W-W-	EXISTING WATER LINE

FEMA FLOOD INFORMATION

Subject site is designated as Zone X (0.2% Annual Flood Chance Hazard) determined by FEMA Firm Flood Insurance Rate Map: Map # 47021C0251E Revised February 26, 2021





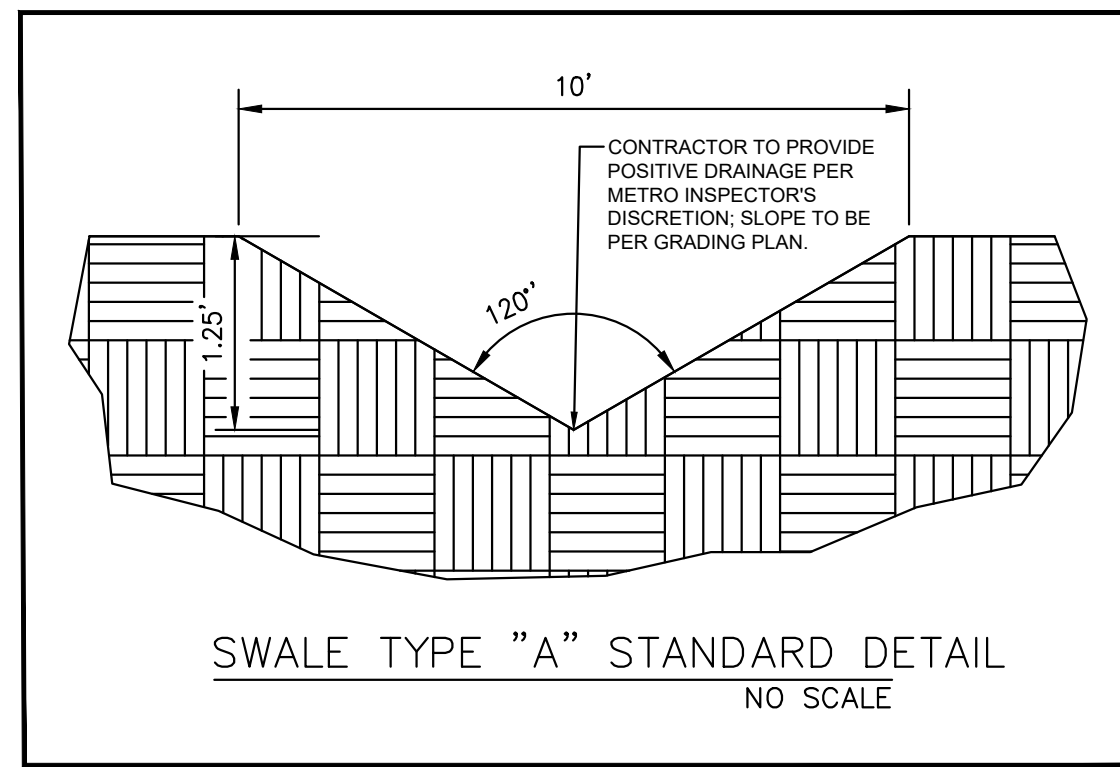
VALLEY POINT HOMES
FOR
JIMMY BROOKS
0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

DESIGNED BY: MLW
DATE: 2/23/2023
SCALE: N/A
JOB #: 20230210-1

EPSC DETAILS

C3.1



DRAINAGE STRUCTURE SCHEDULE				
NO.	TYPE	CASTING	RIM	INVERTS
ST1	HEADWALL	4310	427.70	425.70 (ST2)
ST2	HEADWALL	4310	428.00	426.00 (ST1)
ST3	HEADWALL	4310	402.70	400.70 (ST4)
ST4	HEADWALL	4310	403.00	401.00 (ST3)

PIPE TABLE			
LINE	SIZE/TYPE	LENGTH	SLOPE
ST1-ST2	8" HDPE	15'	2.00%
ST3-ST4	8" HDPE	15'	2.00%

LEGEND

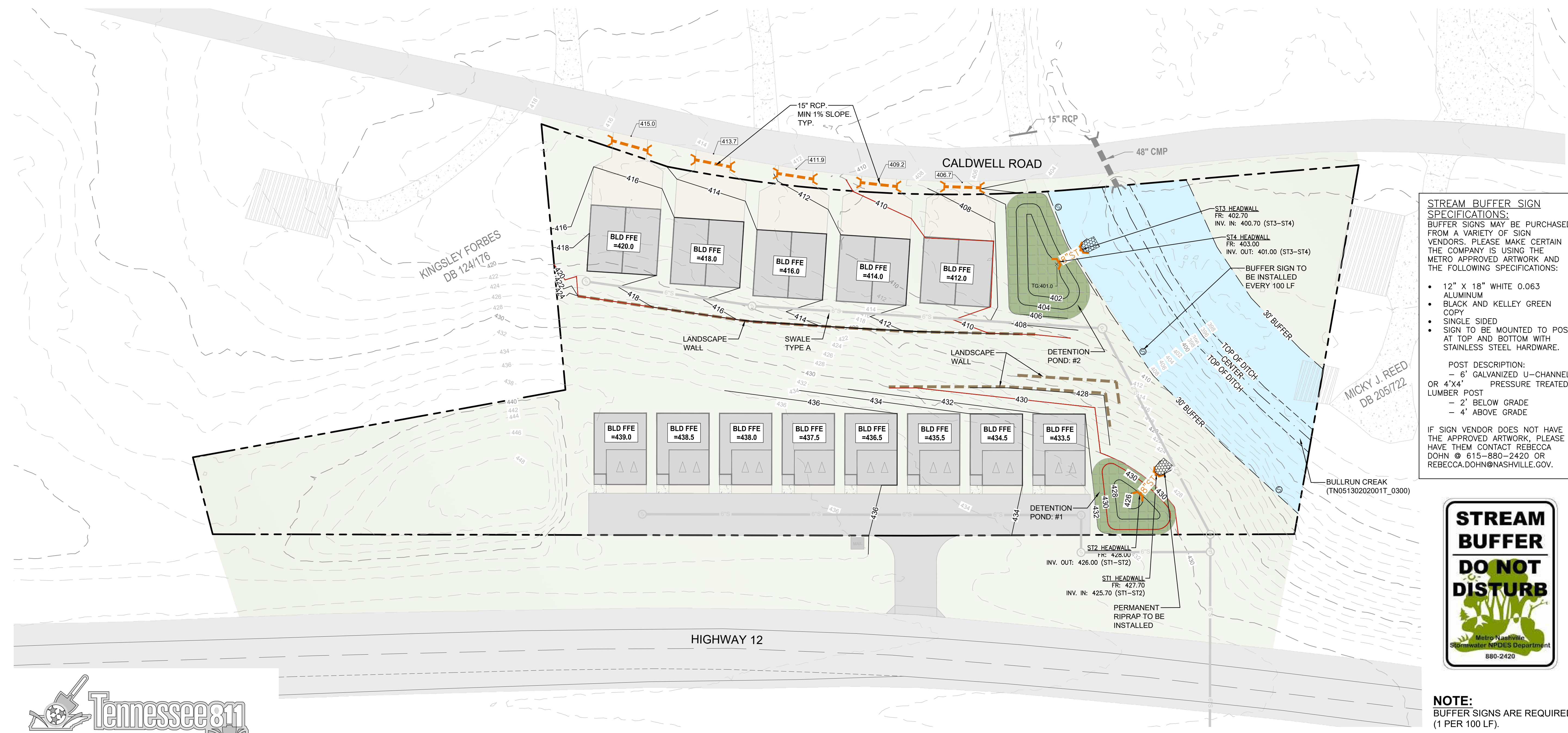
- PROPERTY LINE
- EXISTING FENCE
- EXISTING OVERHEAD POWER LINE
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATER LINE
- EXISTING CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED STORM SEWER
- 6" PERFORATED UNDERDRAIN
- HEADWALL
- ADS NYLOPLAST DOME INLET
- CLEANOUT/OBSERVATION WELL
- JUNCTION BOX
- GRATE INLET
- PROPOSED SANITARY SEWER
- SANITARY MANHOLE
- SANITARY CLEANOUT
- TP TOP OF PAVEMENT
- TC TOP OF CURB
- TG TOP OF GRADE
- BG BOT OF GUTTER
- EX EXISTING SPOT ELEV.

TDEC BUFFER ZONE DETENTION POND

TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988

0 30 60 120
Feet

GRAPHIC SCALE

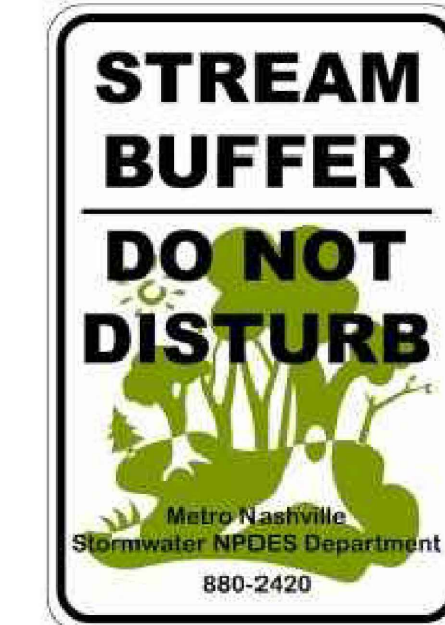


STREAM BUFFER SIGN SPECIFICATIONS:
 BUFFER SIGNS MAY BE PURCHASED FROM A VARIETY OF SIGN VENDORS. PLEASE MAKE CERTAIN THE COMPANY IS USING THE METRO APPROVED ARTWORK AND THE FOLLOWING SPECIFICATIONS:

- 12" X 18" WHITE 0.063 ALUMINUM
- BLACK AND KELLEY GREEN COPY
- SINGLE SIDED
- SIGN TO BE MOUNTED TO POST AT TOP AND BOTTOM WITH STAINLESS STEEL HARDWARE.

POST DESCRIPTION:
 - 6' GALVANIZED U-CHANNEL OR 4"x4" PRESSURE TREATED LUMBER POST
 - 2" BELOW GRADE
 - 4" ABOVE GRADE

IF SIGN VENDOR DOES NOT HAVE THE APPROVED ARTWORK, PLEASE HAVE THEM CONTACT REBECCA DOHN @ 615-880-2420 OR REBECCA.DOHN@NASHVILLE.GOV.



NOTE:
 BUFFER SIGNS ARE REQUIRED (1 PER 100 LF).



VALLEY POINT HOMES

FOR
JIMMY BROOKS

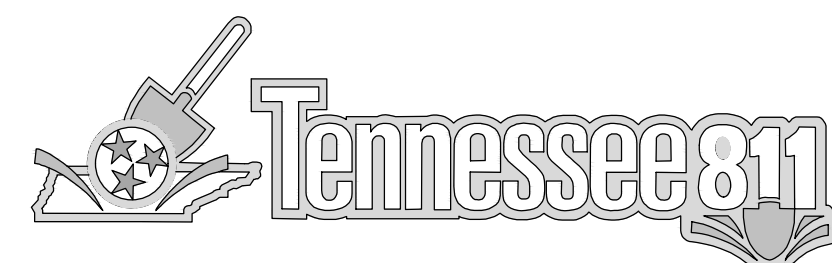
0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE

DESIGNED BY: MLW
 DATE: 2/23/2023
 SCALE: 1"=30'
 JOB #: 20230210-1

GRADING &
 DRAINAGE

C4.0





VALLEY POINT HOMES
FOR
JIMMY BROOKS
0 CALDWELL ROAD ASHLAND CITY, TN 37015

REVISIONS	DATE

DESIGNED BY: MLW
DATE: 2/23/2023
SCALE: 1"=30'
JOB #: 20230210-1

UTILITY PLAN
C5.0

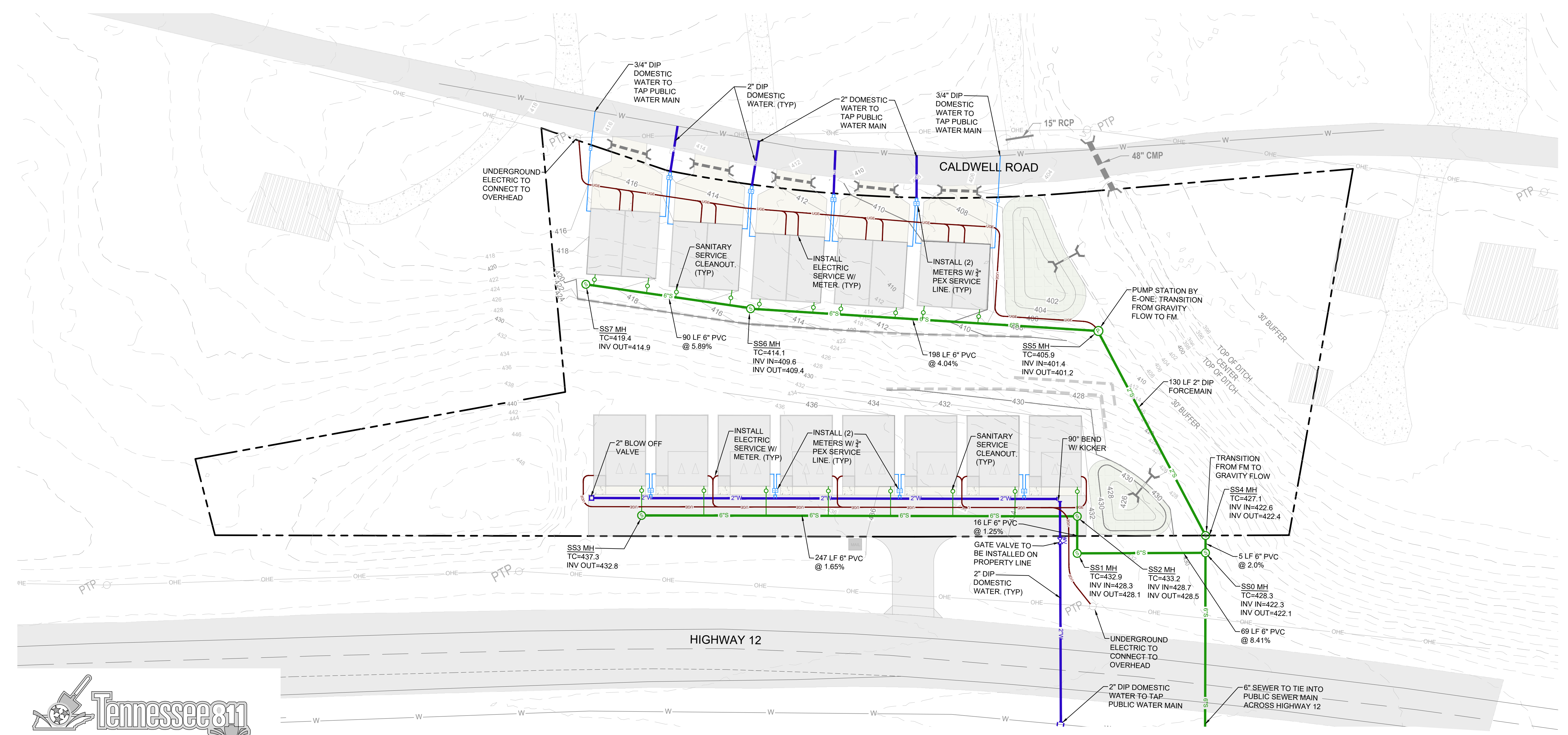
LEGEND

- PROPERTY LINE
- X- EXISTING FENCE
- OHE- EXISTING OVERHEAD POWER LINE
- SA- EXISTING SANITARY SEWER
- ST- EXISTING STORM SEWER
- W- EXISTING WATER LINE
- 540- EXISTING CONTOUR
- 540- PROPOSED CONTOUR
- SS- PROPOSED STORM SEWER
- S- HEADWALL
- AD- ADS NYLOPLAST DOME INLET
- C- CLEANOUT/OBSERVATION WELL
- J- JUNCTION BOX
- G- GRATE INLET
- X'SS- PROPOSED SANITARY SEWER
- S- SANITARY MANHOLE
- S- SANITARY CLEANOUT
- X'W- PROPOSED WATER
- F- FIRE HYDRANT
- V- WATER VALVE
- T- TAPPING TEE
- UE- UNDERGROUND ELECTRIC

TENNESSEE STATE PLANE
COORDINATE SYSTEM - NAD 1983
VERTICAL DATUM - NAVD 1988

0 30 60 120
Feet

GRAPHIC SCALE



STAFF REPORT
ASHLAND CITY PLANNING COMMISSION
March 6, 2023

RESPONSE

Michael Williams, P.E.

Date:2023/03/28

CALL TO ORDER

ROLL CALL

APPROVAL OF AGENDA

APPROVAL OF MINUTES

1. February 6, 2023 meeting minutes

PUBLIC FORUM

OLD BUSINESS

2. Trash Discussion

NEW BUSINESS

3. Preliminary Site Plan: Valley Point Homes

- Solid Waste and recycling to be managed privately with individual containers; container locations provided on site plan C1.0.
- (6) guest parking spaces have been provided on sheet C1.0.

Analysis – This is a proposal for an 18 unit multi-family development on Highway 12 and Caldwell Road. The preliminary site plan notes 8 units (8 structures) fronting Highway 12 with 10 units (5 structures) fronting Caldwell Road. The property is zoned R4-PUD. The following issues need to be addressed in order for this proposal to meet site plan requirements:

- Parking on Caldwell Road has cars backing into Caldwell Road? Roughly 25' from front of buildings to edge of right-of-way?
Driveways along Caldwell Road have been redesigned to allow parked vehicles to turn around prior to exiting onto Caldwell Road.
- Sidewalks
Sidewalk variance has been applied for.
- Pavement cross section detail
Pavement cross section provided on sheet C1.2.
- Show all existing and proposed fire hydrants
Existing & proposed fire hydrants are shown on sheets C1.1 (Fire Plan) and C5.0 (Utility Plan).
There is an existing fire hydrant approximately 283' northwest on Caldwell Road. A proposed fire hydrant is to be installed near the southeast entrance of Highway 12.

- Show proposed landscaping with separate landscape plan sheet meeting landscape requirements
Landscape plan provided as sheet C1.1 for Ashland City Site Plan Approval. Landscape plan by registered landscape architect to be provided prior to Grading Permit approval.
- Show building height/number of stories
Building height and stories are provided as text on units on sheet C1.0.

Staff has noted several potentially problematic issues with this proposal. Several need to be resolved to the satisfaction of the various departments prior to seeking approval of the Final Master Plan. Staff considers the parking along Caldwell Road to perhaps be the most serious. Sidewalks are asked for/required. The planning commission should consider the area and assess whether it makes sense to require installation of sidewalks. A waiver of this requirement may be in order. Other minor, technical issues can be resolved prior to presentation of the final master plan.

Comments/corrections by the city's consulting engineer should also be included with this review and any approval.

Recommendation – Staff can recommend approval of this proposal if satisfactory solutions can be developed that addresses the above noted issues.



CSR Engineering Inc.
2010 Hwy. 49E
Pleasant View, TN 37146
Phone: (615) 212-2389
Fax: (615) 246-3815
www.csrengineers.com

February 25, 2023

Allen Nicholson
Town of Ashland
City 233 TN Waltz
Pkwy
Ashland City, TN 37015

RESPONSE

Michael Williams, P.E.
Date:2023/03/29

REFERENCE: **Valley Point Homes (Plans**

Review) Dear Mr. Nicholson:

Our comments on the subject project plans and stormwater calculations are provided below:

- Provide revised drainage calculation submittal
 - Table summarizing runoff needs revision – mislabeled pre vs post headings, also reveal the unrouted post condition runoff then the routed/detained post development flows, also show the undetained bypass flows
 - Show Pipe/ditch calcs (loading vs. capacity and all basic results.....velocities, slopes, sizes etc)
 - Calc report should reveal all details on the pond outlet structures to compare details in calcs to outlet details in plans.

Stormwater comments above will be addressed for grading permit submittal following Ashland City Planning approval of Site Plan. These items will be provided prior to issuance of grading permit.

Plans related comments

- Plans need to have all site details added that match the drainage intent.....curbs and drainage details that ensure water makes it to the ponds.....the buildings likely require downspout connection to prevent bypass of runoff straight to the stream instead of the ponds.

Downspouts and curbs shown on plans.

- Contours should be reflected to include the landscaping walls (add top of wall and bottom of wall elevations and correct the proposed contours to match)
Contours have been revised and Top of Wall and Bot of Wall spot elevations have been provided on sheet C4.0.
- Even if pipes/ditches are designed for lower year events, all flows up to the 100 year must be confirmed to make it to the ponds.....otherwise the site runoff is incorrect if ditches overflow and send water to the ditch undetained in the 100 year event.....check and provide clarity of results in drainage report.
Stormwater quantity and volumetric calculations to be addressed following Ashland City Planning approval of Site Plan.
- No increased flows allowed onto the public ROWs, ensure all water is appropriately captured and detained onsite..... to the pond and not bypassed as noted in drainage calcs
Stormwater quantity and volumetric calculations to be addressed for grading permit submittal following Ashland City Planning approval of Site Plan.
- Revise drainage at end of ditch to ensure water is directed into the pond and not into the pump station or directed into the stream.
Drainage ditch has been revised on grading sheet C4.0.
- Ensure EPSC plans reveal what items are temporary and should be removed vs items that may be permanent and part of the drainage plans that should remain.
EPSC Plans to be revised to submit for grading permit following Ashland City Planning approval of Site Plan.
- Show on plan view where different curb types are utilized/planned
Curbs have been denoted on plans. Post Curb detail per Ashland City is provided on sheet C1.2.
- Roadway/driveway details need revision and clarification
 - Clarify the roadway materials as details
Is the southern driveway a public or private roadway? Private roadways have the same specification requirements as public and there must be adequate turnaround (the current layout does not meet functional roadway dimension criteria, if you were using a multifamily approach, these units still do not have the functional geometry of a parking lot and private drive aisles per town regulations) need to take a standard approach and revise these traffic routing layouts to match city regulations.
Asphalt paving provided called out per city of Ashland City on sheet C1.0. Standard Detail provided on sheet C1.2. Road is Private, and has been labeled. Road design has been revised per additional discussion since comments have been made. Thank you for help for clarification.
- Add signage and pavement marking details
Parking striping has been added for guest parking on sheet C1.0.

- Add driveway length and width dimensions, radii of connections (typical driveway if all equal) that reveal parking is sufficient to remain off sidewalks.
Driveway have been revised per discussion. Dimensions and radii have been added. A sidewalk Variance is to be submitted for.
- Show on plan view where all sidewalk ramps are needed and provide/reference to ramps and other ADA details (where are city required public sidewalks???).
A sidewalk variance has been submitted for.
- Add a bold note that all sidewalks, ramps, crosswalks and related pedestrian facilities must be ADA compliant
ADA note is provided under graphic scale on sheet C4.0.
- Public works will provide further comments but there are several issues with drainage related to sewer/water details that must be clarified at a minimum.....cleanouts need to be revealed and shouldn't be in drainage ditches.....confirm tie in locations and invert details....reveal separation of private work from any city installed tap (details for crossing the state ROW????).....profiles of sewer and water installations.....water and sewer details and plans callouts (meters, valves, etc).
Stormwater and Utility comments to be addressed for grading permit submittal following Ashland City Planning approval of Site Plan. These items will be provided prior to issuance of grading permit.
- Provide elevations for buildings (various types shown on plan views) need to understand where roof drainage goes and how parking is accommodated.
Roof plans to be provided for grading permit resubmittal following Ashland City Planning approval of Site Plan.
- Reveal lighting plan and photometrics
Light and Photometric Plan to be provided following Ashland City Planning approval of Site Plan. These items will be provided prior to issuance of grading permit.
- Add landscaping plan that meets the Town regulations
Landscape Plan to be provided following Ashland City Planning approval of Site Plan. These items will be provided prior to issuance of grading permit.

Prior to issuance of a grading permit, all plans must be confirmed to match the final approved set supplied to the city (any plans changes due to water, sewer, TDOT permitting must be submitted back to the Planning/Codes office for records and verification vs. original submittals).

Respectfully,



Jason Lee
Reynolds, P.E.
Project Manager



Ashland City Fire, Building & Life Safety Department

101 Court Street
Ashland City TN 37015
Fire & Life Safety: (615) 792-4531 – Building Codes (615) 792-6455

Application for Reclassification of Property Under the Zoning Ordinance

Application Fee: \$100.00

Application is hereby made to the Mayor and City Council, which first must be reviewed by the City Planning Commission, to reclassify the property described below now in a Residential _____ district.

DESCRIPTION OF PROPERTY (Attach Map): Map 055F Parcel 003.00

REASON FOR RECLASSIFICATION REQUEST rezone to C2
surrounded by commercial except 1 side

Address: 108 Duke St Ashland City TN

NOTE:

1. All applications for rezoning must be turned into City Hall no later than thirty (30) days prior to the upcoming planning commission meeting, if they are to be entertained at said meeting.
2. An accurate graphic plat prepared and stamped by a registered design professional and a legal description of property to be rezoned must be submitted to the Building Official prior to consideration by the City Commissioners. In certain circumstances (i.e. large annexation requests having irregular boundaries) these legal descriptions must be submitted prior to planning commission consideration.
3. The applicant will submit the names and addresses of all owners of adjacent property within 1,000 feet. The applicant must also submit a map showing the property within 200 feet of said property.



Applicant Signature

3-16-23

Date

LOCATION

Property Address 108 Duke St
Ashland City, TN 37015-1514

Subdivision

County Cheatham County, TN

PROPERTY SUMMARY

Property Type Residential

Land Use Household Units

Improvement Type Single Family

Square Feet 1110

GENERAL PARCEL INFORMATION

Parcel ID/Tax ID 055F D 003.00

Special Int 000

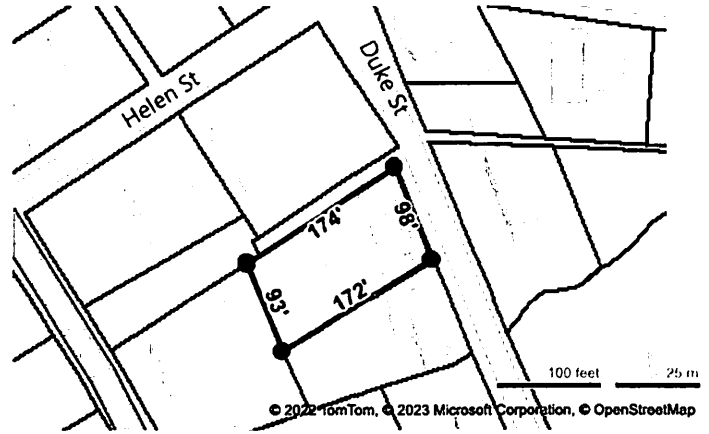
Alternate Parcel ID

Land Map 055F

District/Ward 01

2020 Census Trct/Blk 703/2

Assessor Roll Year 2022



CURRENT OWNER

Name Williams Garvis Katherine

Mailing Address 108 Duke St
Ashland City, TN 37015-1514

SCHOOL ZONE INFORMATION

Ashland City Elementary School	0.3 mi
Elementary: K to 4	Distance
Cheatham Middle School	2.6 mi
Primary Middle: 5 to 8	Distance
Cheatham County Central	3.0 mi
High: 9 to 12	Distance

SALES HISTORY THROUGH 03/02/2023

Date	Amount	Buyer/Owners	Seller	Instrument	No. Parcels	Book/Page Or Document#
7/20/1968		Williams Garvis & Katherine				134/354

TAX ASSESSMENT

Appraisal	Amount	Assessment	Amount	Jurisdiction	Rate
Appraisal Year	2022	Assessment Year	2022	Ashland City	0.58
Appraised Land	\$17,000	Assessed Land		Cheatham	2.4766
Appraised Improvements	\$125,800	Assessed Improvements			
Total Tax Appraisal	\$142,800	Total Assessment	\$35,700		
		Exempt Amount			
		Exempt Reason			

TAXES

Tax Year	City Taxes	County Taxes	SSD Taxes	Total Taxes
2022	\$207.06	\$884.15	\$0	\$1,091.21
2021	\$189.21	\$884.15	\$0	\$1,073.36
2020	\$179.82	\$884.15	\$0	\$1,063.97
2019	\$179.82	\$884.15	\$0	\$1,063.97
2018	\$153.11	\$759.66	\$0	\$912.77
2017	\$113.27	\$715.65	\$0	\$828.92
2016	\$113.27	\$678.18	\$0	\$791.45
2015	\$100.64	\$629.52	\$0	\$730.16
2014	\$100.64	\$603.26	\$0	\$703.90
2012	\$100.64	\$603.26	\$0	\$703.90

MORTGAGE HISTORY

No mortgages were found for this parcel.

PROPERTY CHARACTERISTICS: BUILDING

Building # 1

Type	Single Family	Condition	Average	Units
Year Built	1964	Effective Year	1995	Stories 1
BRs		Baths	F H	Rooms

Building Square Feet (Living Space)

Base 1110

Building Square Feet (Other)

Open Porch Finished 40

Utility Unfinished 300

- CONSTRUCTION

Quality	Average	Roof Framing	Gable/Hip
Shape	Rectangular Design	Roof Cover Deck	Composition Shingle
Partitions		Cabinet Millwork	Average
Common Wall		Floor Finish	Carpet Combination
Foundation	Continuous Footing	Interior Finish	Drywall
Floor System	Wood W/ Sub Floor	Air Conditioning	Cooling Package
Exterior Wall	Common Brick	Heat Type	Heat Package
Structural Framing		Bathroom Tile	Floor-1/2 Wall
Fireplace	Y	Plumbing Fixtures	5
- OTHER			
Occupancy	Occupied	Building Data Source	Inspection

PROPERTY CHARACTERISTICS: EXTRA FEATURES

Feature	Size or Description	Year Built	Condition
Detached Garage Finished	26X40	1978	AVERAGE
Driveway	1500	1964	AVERAGE

PROPERTY CHARACTERISTICS: LOT

Land Use	Household Units	Lot Dimensions	100X200X100X190 IRR
Block/Lot		Lot Square Feet	
Latitude/Longitude	36.269854°/-87.058465°	Acreage	

PROPERTY CHARACTERISTICS: UTILITIES/AREA

Gas Source	Public - Natural Gas	Road Type	Urban Paved
Electric Source	Public	Topography	Level
Water Source	Public	District Trend	Stable
Sewer Source	Public	Special School District 1	
Zoning Code		Special School District 2	
Owner Type			

LEGAL DESCRIPTION

Subdivision		Plat Book/Page	
Block/Lot		District/Ward	01
Description			

FEMA FLOOD ZONES

Zone Code	Flood Risk	BFE	Description	FIRM Panel ID	FIRM Panel Eff. Date
X	Minimal		Area of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood 47021C0170E level.		02/26/2021

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Information Deemed Reliable But Not Guaranteed.





Town of Ashland City Building & Codes Department

233 Tennessee Waltz Parkway Suite 103
Ashland City TN 37015
(615) 792-6455

Application for Reclassification of Property Under the Zoning Ordinance

Application Fee: \$100.00

Application is hereby made to the Mayor and City Council, which first must be reviewed by the City Planning Commission, to reclassify the property described below now in a _____ / _____ district.

Description of Property (Attach Map): Map 55 F Parcel 014.00

Reason for Reclassification Request: Residential to Commercial

Address: 109 Elizabeth Street Ashland City, TN. 37015

NOTE:

1. All applications for rezoning must be turned into City Hall no later than thirty (30) days prior to the upcoming planning commission meeting if they are to be entertained at said meeting.
2. An accurate graphic plat prepared and stamped by a registered design professional and a legal description of property to be rezoned must be submitted to the Building Official prior to consideration by the Town Planning Commissioners. In certain circumstances (i.e. large annexation requests having irregular boundaries) these legal descriptions must be submitted prior to planning commission consideration.
3. The applicant will submit the names and addresses of all owners of adjacent property within 1,000 feet. The applicant must also submit a map showing the property within 200 feet of said property.

Send application and other documents to anicholson@ashlandcitytn.gov

Stevan W. Stralton
Applicant

4/10/2023
Date

Wright & Associates
Land Surveyors
1329 Hwy. 12 N. - Ashland City, TN. 37015
Wk.-615-238-4123 - Hm.- 615-792-4291

PROPERTY DESCRIPTION

Steven W. Stratton
January 20, 2022

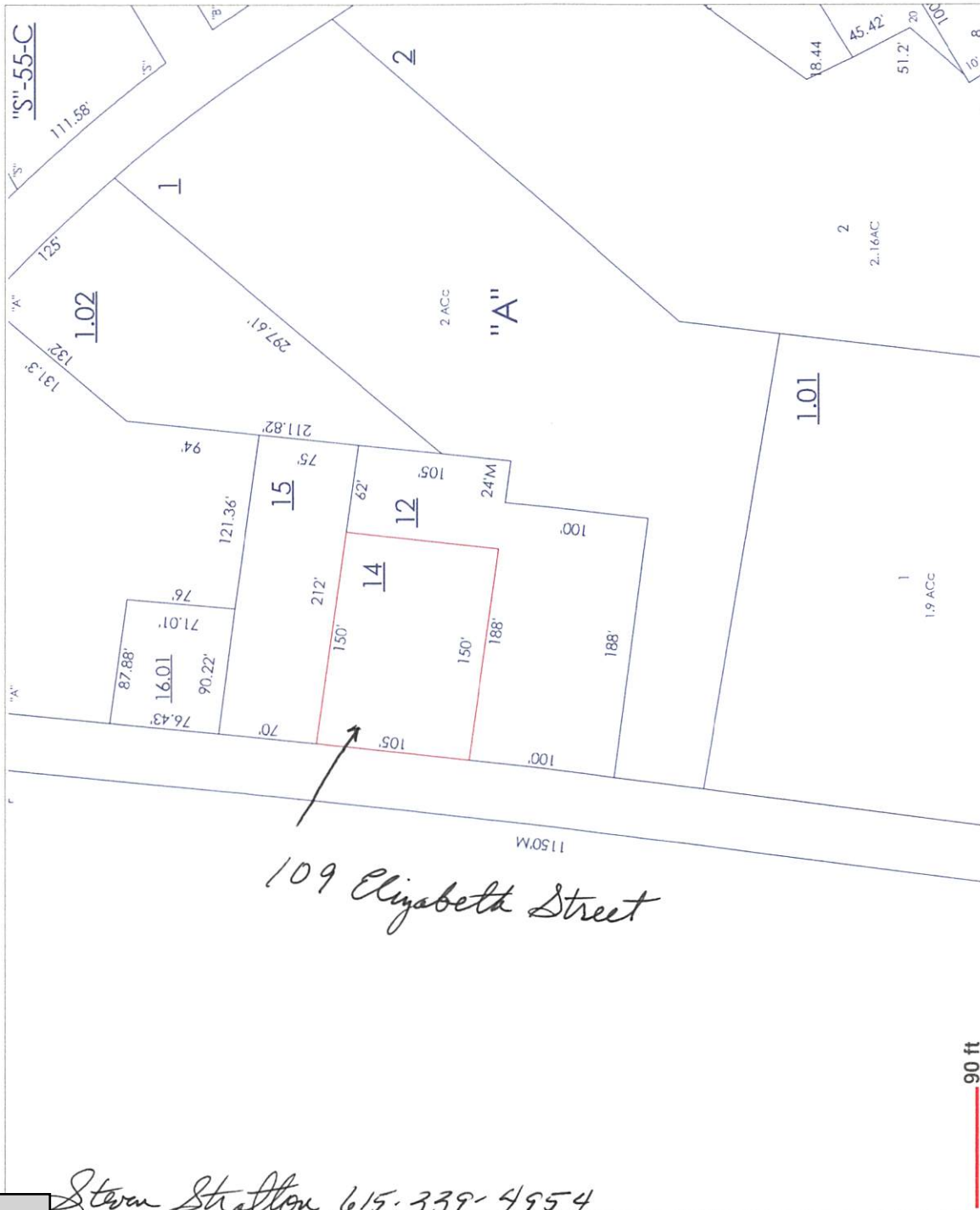
Lot 1

A Lot located on Elizabeth Street in Ashland City, Cheatham County, Tennessee being all of Parcel 014.00 and a portion of Parcel 012.00 of Map 055F Group A of the Property Assessor's office of said county. Being all of the property as shown in Record Book 589 – Pg. 478 and all of the Portion called "First Tract" of Record Book 504 – Pg. 2024, of the Property Assessor and Register of Deeds offices of said county. All Parcels and Records referenced in the following description are from the Property Assessor and Register of Deeds offices of said county.

Beginning at an Iron Rod (old) on the east margin, 20 ft. from and perpendicular to the centerline, of Elizabeth Street, said Iron Rod (old) is located 618 ft. ± south along the centerline of Elizabeth Street from the centerline of Main Street (Tenn. Hwy. 12). Said Iron Rod (old) is the southwest corner of Lot 1 and the northwest corner of Lot 2 (also described at this time) as shown on a Plat of this Survey and proceeding:

- 1) With the east margin of Elizabeth Street, N 05°34'13" E - 105.00 ft. to an Iron Rod (new) being the southwest corner of Parcel 015.00 of Map 055F-A belonging to Jorge A. Madrid as shown in Record Book 423 – Pg. 534, thence;
- 2) With the south line of Madrid, S 79°04'42" E passing an Iron Rod (old) online at 151.75 ft. and continuing in all 213.64 ft. to an Iron Rod (old) in a rip-rap embankment in the west line of Parcel 001.02 of said map belonging to Work Force Essentials, Inc. as shown in Record Book 508 – Pg. 2954, thence;
- 3) With the west line of Work Force Essentials, Inc., S 06°40'29" W - 42.88 ft. to an Iron Rod (old) being a corner of Parcel 001.00 of said map belonging to WHS Properties, LLC as shown in Record Book 441 – Pg. 461, thence;
- 4) With the west line of WHS Properties, LLC, S 06°40'29" W - 62.06 ft., to an Iron Rod (old), thence;
- 5) Continuing with WHS Properties, LLC, N 79°27'24" W - 23.63 ft. to an Iron Rod (old), thence;
- 6) N 79°00'06" W passing an Iron Rod (old) online at 38.2 ft. and continuing in all 188.00 ft., to the Point of Beginning containing 0.511 Acres, 22,260 Sq. Ft., according to a Survey by Marvin T. Wright, R.L.S. # 2094 of Tennessee.

TEXT_PARCEL
 LEADERLINES
 PARCELS



CHEATHAM COUNTY, TENNESSEE

DECLARER: THIS MAP IS FOR PROPERTY TAX ASSESSMENT PURPOSES ONLY. IT WAS CONSTRUCTED FROM PROPERTY INFORMATION RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, AND IS NOT CONCLUSIVE AS TO LOCATION OF PROPERTY OR LEGAL OWNERSHIP.



ITEM # 4.

Stevan Stratton 615-339-4954

Fwd: Receipt #R00179691

Allen Nicholson <anicholson@ashlandcitytn.gov>

Mon 4/10/2023 2:17 PM

To: Alicia Martin <ayoung@ashlandcitytn.gov>

Allen Nicholson

Building & Codes Director

Town of Ashland City

233 TN Waltz Pkwy, Suite 103

Ashland City, TN 37015

(615)792-4211 x 5244



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From: No-Reply <No-Reply@ashlandcitytn.gov>

Sent: Monday, April 10, 2023 2:07:54 PM

To: Allen Nicholson <anicholson@ashlandcitytn.gov>

Subject: Receipt #R00179691

The Town of Ashland City would like to thank you for your payment!

Town of Ashland City Water & Sewer

PO Box 36

Ashland City, TN 37015

(615)792-4211

DATE : 4/10/2023 2:06 PM

OPER : MJ

TKBY : Margie Jarrell

TERM : 2

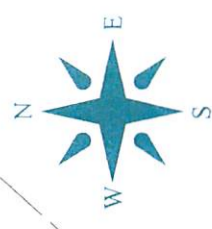
REC# : R00179691

CODES 32610 CODES BUILDING PERMITS/INSPECTION

STRATTONS INC REZONE 100.00

Paid By:STRATTONS INC

6-110 GEN CHECK 100.00 REF:1849



LEGEND

- Property Corner/Iron Rod
- Utility Pole
- Fire Hydrant
- Subject Property Lines
- Non Surveyed Property Lines
- Overhead Utility Lines
- Center Line
- Miscellaneous Layout Lines
- Underground Water Lines
- Underground Sewage Lines

Boundary Survey For
Steven W. Stratton
 109 & 111 Elizabeth Street
 Ashland City, Cheatham County, Tennessee
 SCALE 1" = 30'

JOB NO. 55FA0
 SHEET 1 OF 1

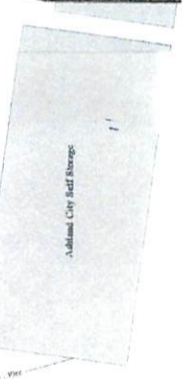
WRIGHT & ASSOCIATES
 1379 Hwy 17 N, Ashland, TN, Tennessee

ARCA

SQUARE FEET = 40,978 Total
 ACREAGE = 0.941 Total

REVISIONS

NO.	DATE	BY	CHANGE

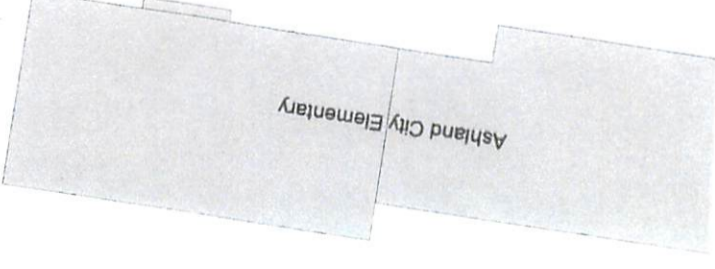


- GENERAL NOTES**
- Bearings are based on Record Book 508 - Pg. 2954, west line of description N65°40'29"E.
 - This survey has not physically located the underground utilities. Above grade and underground utilities shown were taken from visible appearances at the site. Public records and/or maps prepared by others. The surveyor makes no guarantee that the utility locations shown are correct. The surveyor is not responsible for any damage to or destruction of any utility lines or other structures located on the site. The surveyor is not responsible for any damage to or destruction of any utility lines or other structures located on the site. The surveyor is not responsible for any damage to or destruction of any utility lines or other structures located on the site.
 - Subject property is shown as parcel 014.00 (Lot 1 & 012.00) (Lot 2) - GP A, on Cheatham Co. Tax Map no. 055F.
 - Subject Property: 055F-A-014.00 (Lot 1) & 012.00 (Lot 2) is Zoned R3. 055F-A-012.00 (Lot 2) is Zoned C2.

Property Title Reference

Lot 1
 Being all of the property conveyed to Steven W. Stratton as shown in Record Book 589 - Page 478, Shown as Parcel 014.00 on Cheatham County Tax Map # 055F - Gp A, and a Portion of the property as shown in Record Book 504 - Page 2024, Shown as Parcel 012.00 on Cheatham County Tax Map # 055F - Gp A.

Lot 2
 Being a portion of the property conveyed to Steven W. Stratton as shown in Record Book 504 - Page 2024, R.O.C.C., Tn. Shown as Parcel 012.00 on Cheatham County Tax Map # 055F - Gp A.



CERTIFICATE OF SURVEY ACCURACY

I hereby certify that to the best of my knowledge and belief this is a true and accurate survey of the property shown herein. That this is a Category 1 Land Survey as defined in Title 62, Chapter 18, Tennessee Code Annotated and that the Ratio of Precision is greater than or equal to 1:10,000 Plus or Minus.

Marvin T. Wright
 1/10/2022

