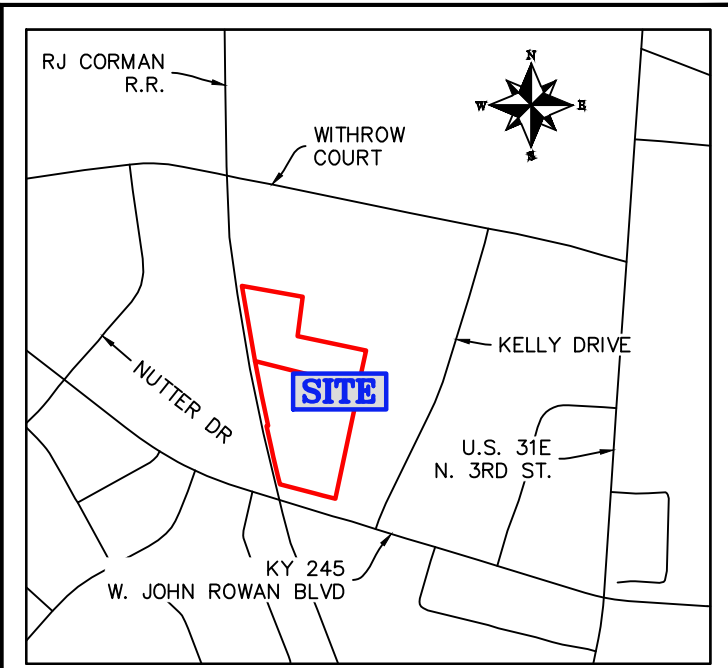
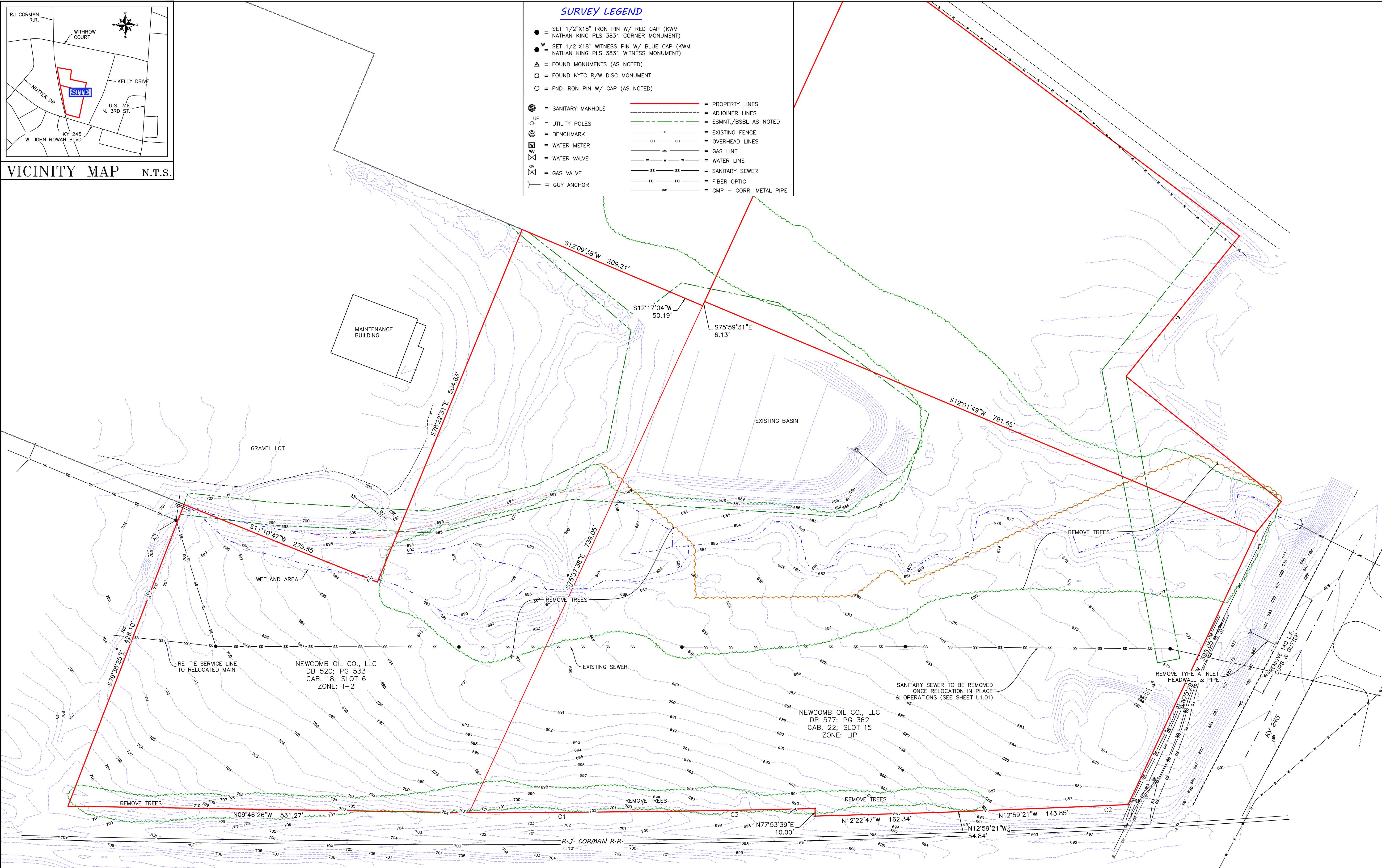




VICINITY MAP N.T.S.

SURVEY LEGEND

- = SET 1/2"x18" IRON PIN W/ RED CAP (KWM NATHAN KING PLS 3831 CORNER MONUMENT)
- W = SET 1/2"x18" WITNESS PIN W/ BLUE CAP (KWM NATHAN KING PLS 3831 WITNESS MONUMENT)
- △ = FOUND MONUMENTS (AS NOTED)
- = FOUND KYTC R/W DISC MONUMENT
- = FND IRON PIN W/ CAP (AS NOTED)
- ⊕ = SANITARY MANHOLE
- ⊙ = UTILITY POLES
- ⊙ = BENCHMARK
- ⊕ W = WATER METER
- ⊕ W V = WATER VALVE
- ⊕ G V = GAS VALVE
- ⊕ = GUY ANCHOR
- = PROPERTY LINES
- = ADJOINER LINES
- - - X - - - = ESMNT./BSBL AS NOTED
- OH — OH — = EXISTING FENCE
- OH — OH — = OVERHEAD LINES
- GAS — GAS — = GAS LINE
- W — W — = WATER LINE
- SS — SS — = SANITARY SEWER
- FO — FO — = FIBER OPTIC
- CMP — CORR. METAL PIPE



GENERAL NOTES:

1. THIS SURVEY IS SUBJECT TO ANY AND ALL LEGAL EASEMENTS & RIGHT OF WAYS, RECORDED OR UNRECORDED, AND ANY AND ALL FACTS THAT MAY BE DISCLOSED BY A FULL & ACCURATE TITLE SEARCH.
2. THE UTILITY LINES SHOWN HEREON ARE BASED ON FOUND VISIBLE EVIDENCE IN THE FIELD OR AS MARKED BY THEIR RESPECTIVE OWNERS. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE LOCATION OR EXISTENCE OF THE UTILITIES SHOWN. OTHER UTILITIES MAY EXIST ON OR NEAR THE AREA HEREON THAT ARE NOT SHOWN.
3. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL NOTIFY THE UNDERGROUND LOCATE SERVICE AT 811 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
4. SITE DEMOLITION SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
6. CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD OR UNDERGROUND UTILITIES. PROTECT UNDERGROUND UTILITIES FROM DAMAGE DURING CONSTRUCTION.



0' 60' 120' 180'



NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004



LEBANON OFFICE:
335 N. WOODLAWN AVE.
LEBANON, KY 40033

NATHAN ALLAN KING
P.E. #24283 P.L.S. #3831
BUSINESS: (270) 692-0089
MOBILE: (270) 590-4603
Nathan@mkwm.net

REVISIONS:	DATE:
BID SET	6-02-2025

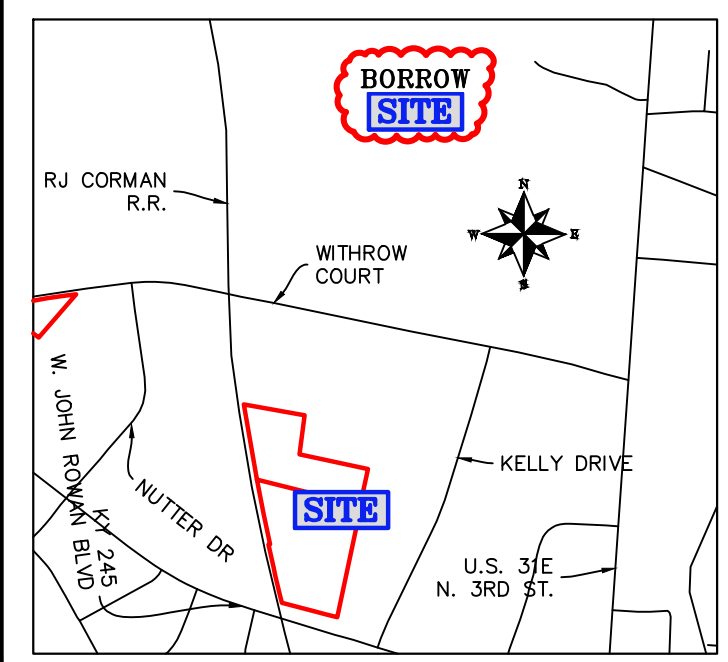
SCALE: 1" = 60' DATE: 6-02-2025

SHEET: EXISTING CONDITIONS & DEMO PLAN C0.01

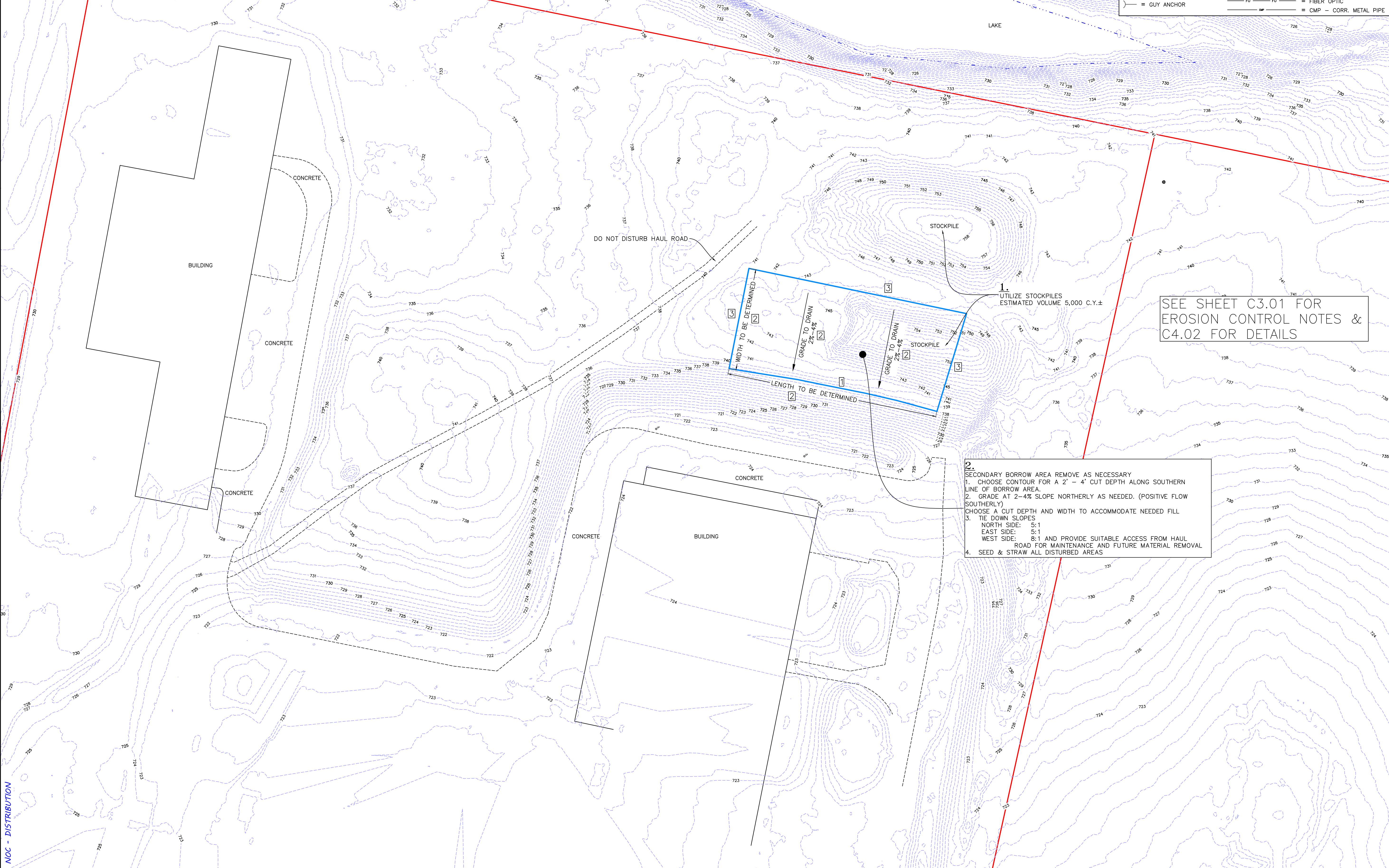
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	22078.05'	244.57'	244.57'	N11°04'04"W
C2	10964.99'	53.59'	53.59'	N13°27'53"W
C3	16962.46'	213.38'	213.38'	N11°44'44"W

NOC - DISTRIBUTION

NOC - DISTRIBUTION



VICINITY MAP N.T.S.



SEE SHEET C3.01 FOR
EROSION CONTROL NOTES &
C4.02 FOR DETAILS

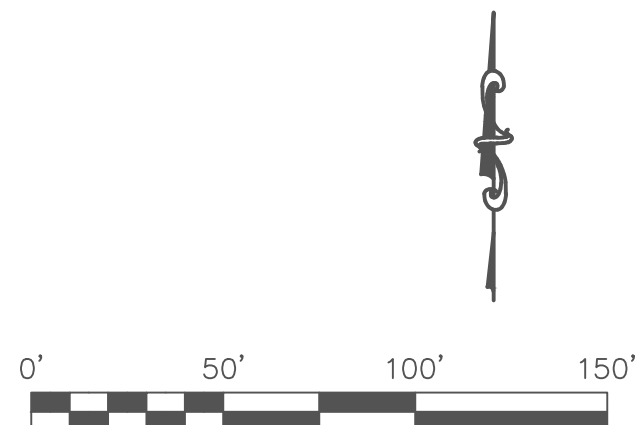
2. SECONDARY BORROW AREA REMOVE AS NECESSARY
1. CHOOSE CONTOUR FOR A 2' - 4' CUT DEPTH ALONG SOUTHERN LINE OF BORROW AREA.
2. GRADE AT 2-4% SLOPE NORTHERLY AS NEEDED. (POSITIVE FLOW SOUTHERLY)
CHOOSE A CUT DEPTH AND WIDTH TO ACCOMMODATE NEEDED FILL
3. TIE DOWN SLOPES
NORTH SIDE: 5:1
EAST SIDE: 5:1
WEST SIDE: 8:1 AND PROVIDE SUITABLE ACCESS FROM HAUL ROAD FOR MAINTENANCE AND FUTURE MATERIAL REMOVAL
4. SEED & STRAW ALL DISTURBED AREAS

SURVEY LEGEND

- = SET 1/2"x18" IRON PIN W/ RED CAP (KWM NATHAN KING PLS 3831 CORNER MONUMENT)
- W = SET 1/2"x18" WITNESS PIN W/ BLUE CAP (KWM NATHAN KING PLS 3831 WITNESS MONUMENT)
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NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004



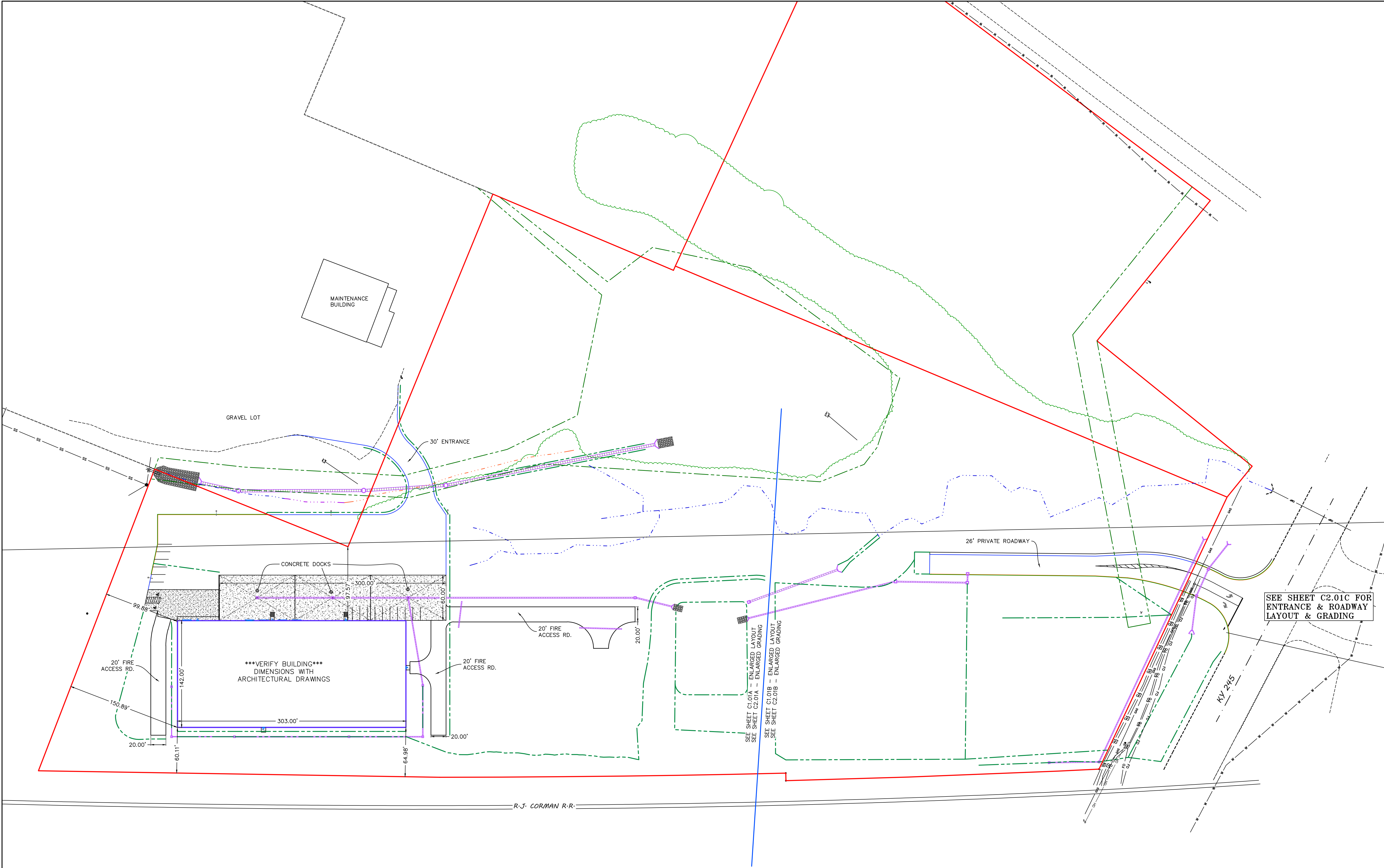
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NATHAN ALLAN KING
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Nathan@mkwm.net

REVISIONS:	DATE:
BID SET	6-02-2025

SCALE: 1" = 50' DATE: 6-02-2025

SHEET: EXISTING CONDITIONS BORROW AREA C0.02

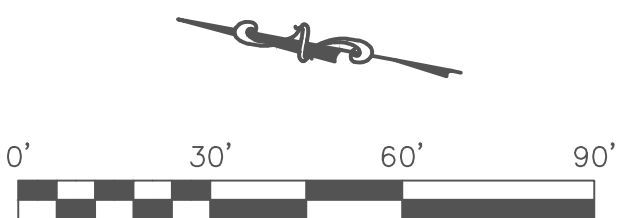


- LAYOUT NOTES:**
1. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN PRIOR TO THE CONTRACTOR RECEIVING AND REVIEWING THE REQUIRED PERMITS AND APPROVALS.
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 3. IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
 4. UNLESS NOTED OTHERWISE, THE DIMENSIONS AND COORDINATES SHOWN HEREON ARE TO THE EDGE OF THE RIGID CONCRETE, EDGE OF ASPHALT, FACE OF CURB, OR OUTSIDE FACE OF BUILDINGS/STRUCTURES.
 5. ALL RIGID AND/OR FLEXIBLE PAVEMENT AND STONE SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, & TESTING REQUIREMENTS OF THESE DRAWINGS AND/OR THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS.
 6. ALL SETBACKS SHALL BE IN ACCORDANCE WITH THE LOCAL ZONING ORDINANCE.
 7. ALL PAVEMENT MARKINGS WITHIN THE DEVELOPMENT SHALL BE PAINTED. ALL PAVEMENT MARKINGS ON CITY OR STATE R/W SHALL CONFORM TO THE REGULATIONS OF THEIR RESPECTIVE OWNER.
 8. ANY WORK WITHIN THE KYTC R/W WILL REQUIRE AN ENCROACHMENT PERMIT. ALL DISTURBED PORTIONS OF THE RIGHT OF WAY SHALL BE RESTORED TO GRASS AS PER KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
 9. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES INVOLVED. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT.
 10. ALL CURB STOPS AND CURB CUTS ABUTTING TRAVELED WAYS SHALL TAPER TO ASPHALT GRADE AT A MIN. 4:1 SLOPE.



SITE LEGEND

- = LIGHT POLES/SECURITY LIGHT
- ⊙ = BENCHMARK - IRON PIN W/ BLUE CAP
- ▬ = PROPOSED STORM PIPE
- ▬ = CONCRETE AREA
- = PROPERTY LINES



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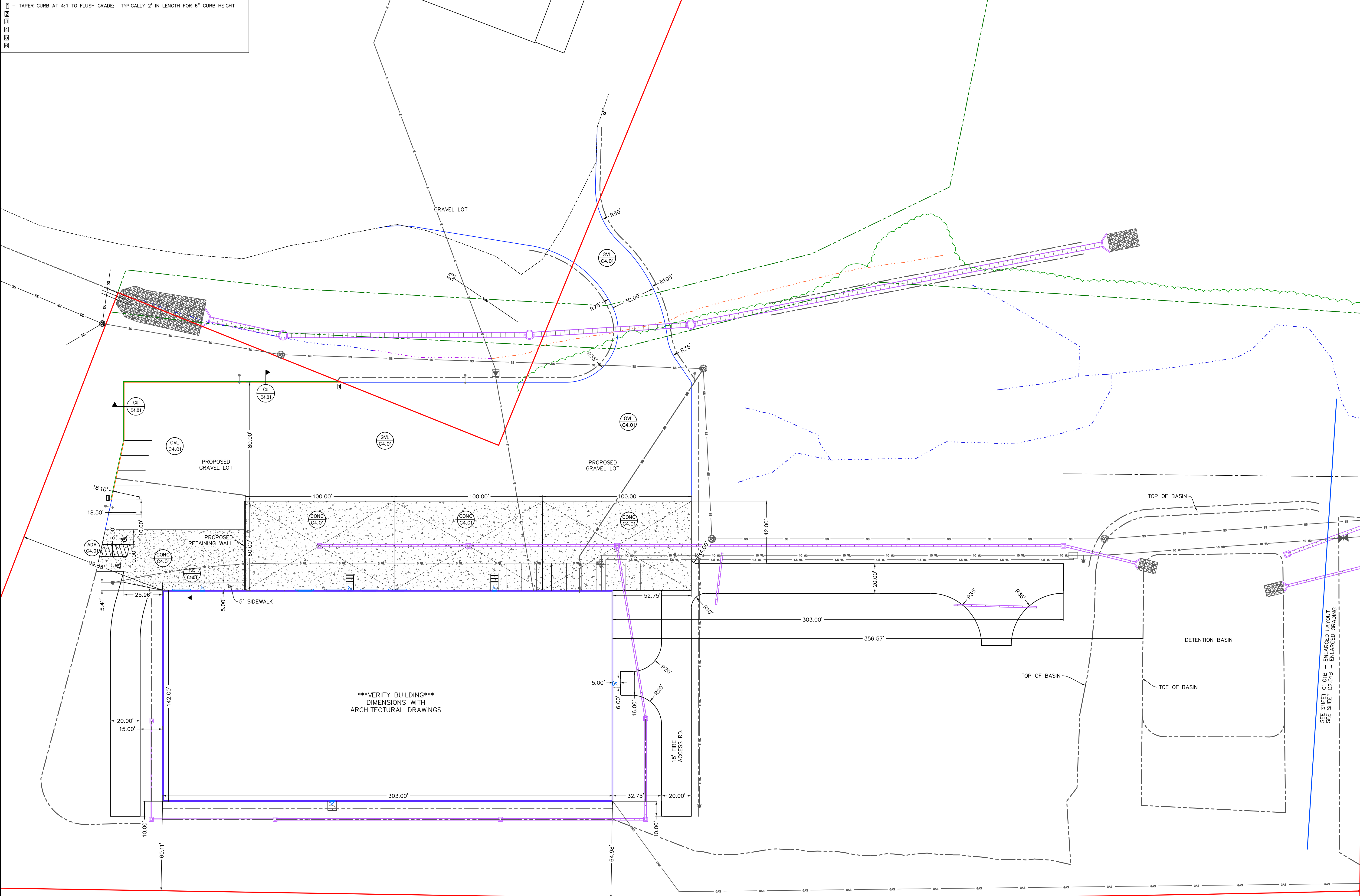
SCALE: 1" = 30' DATE: 6-02-2025

SHEET: **C1.01**
LAYOUT

NOC - DISTRIBUTION

NOC - DISTRIBUTION

■ - TAPER CURB AT 4:1 TO FLUSH GRADE; TYPICALLY 2' IN LENGTH FOR 6" CURB HEIGHT

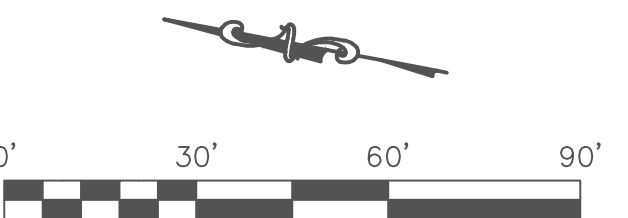


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SITE LEGEND

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- - - = CONCRETE AREA
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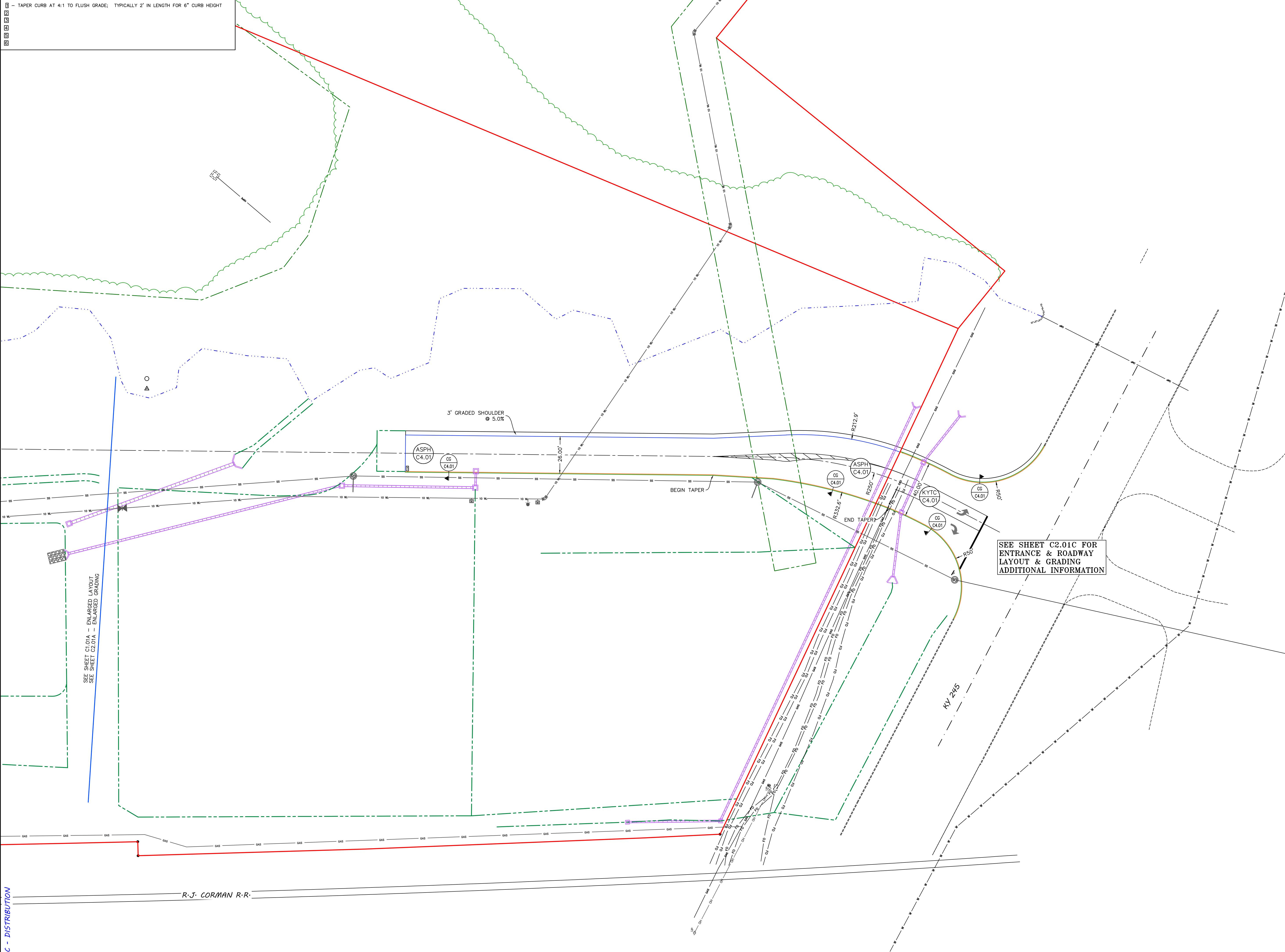
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REVISIONS:	DATE:
BID SET	6-02-2025

SCALE: 1" = 30' DATE: 6-02-2025

SHEET: LAYOUT C1.01a

▣ - TAPER CURB AT 4:1 TO FLUSH GRADE; TYPICALLY 2' IN LENGTH FOR 6" CURB HEIGHT

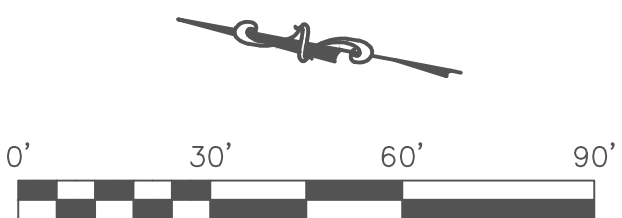


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 6. ALL SETBACKS SHALL BE IN ACCORDANCE WITH THE LOCAL ZONING ORDINANCE.
 7. ALL PAVEMENT MARKINGS WITHIN THE DEVELOPMENT SHALL BE PAINTED. ALL PAVEMENT MARKINGS ON CITY OR STATE R/W SHALL CONFORM TO THE REGULATIONS OF THEIR RESPECTIVE OWNER.
 8. ANY WORK WITHIN THE KYTC R/W WILL REQUIRE AN ENCROACHMENT PERMIT. ALL DISTURBED PORTIONS OF THE RIGHT OF WAY SHALL BE RESTORED TO GRASS AS PER KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
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 10. ALL CURB STOPS AND CURB CUTS ABUTTING TRAVELED WAYS SHALL TAPER TO ASPHALT GRADE AT A MIN. 4:1 SLOPE.



SITE LEGEND

- = LIGHT POLES/SECURITY LIGHT
- ⊙ = BENCHMARK - IRON PIN W/ BLUE CAP
- ▬ = PROPOSED STORM PIPE
- ▬ = CONCRETE AREA
- ▬ = PROPERTY LINES



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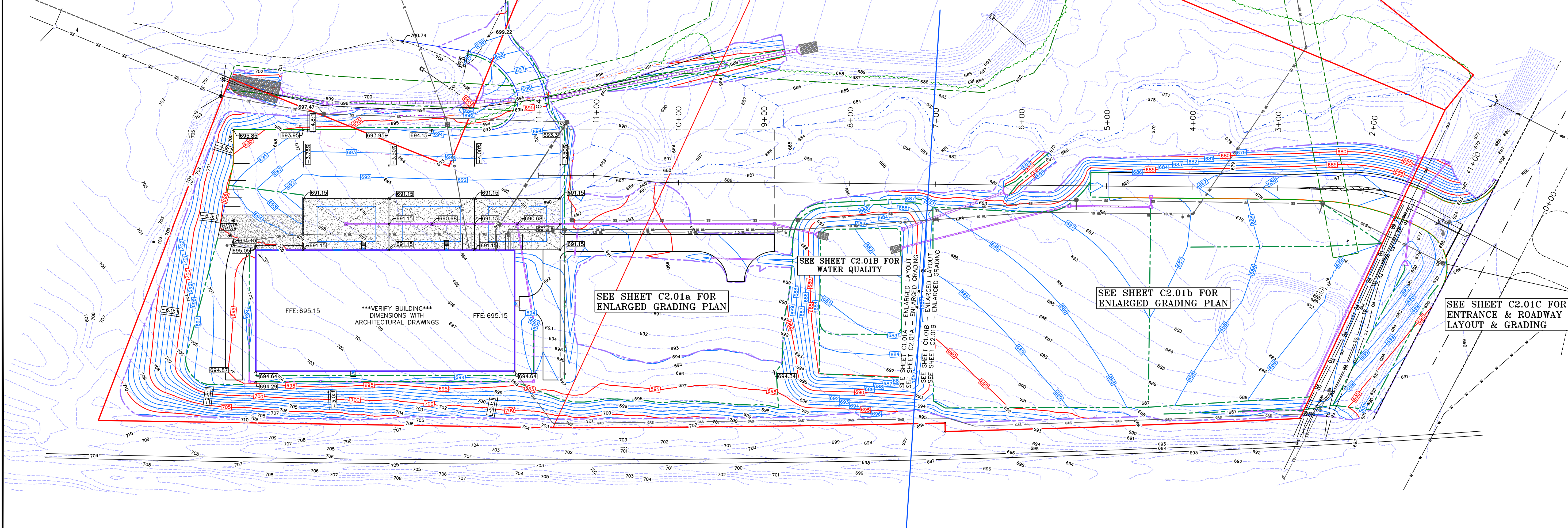
NATHAN ALLAN KING
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REVISIONS:	DATE:
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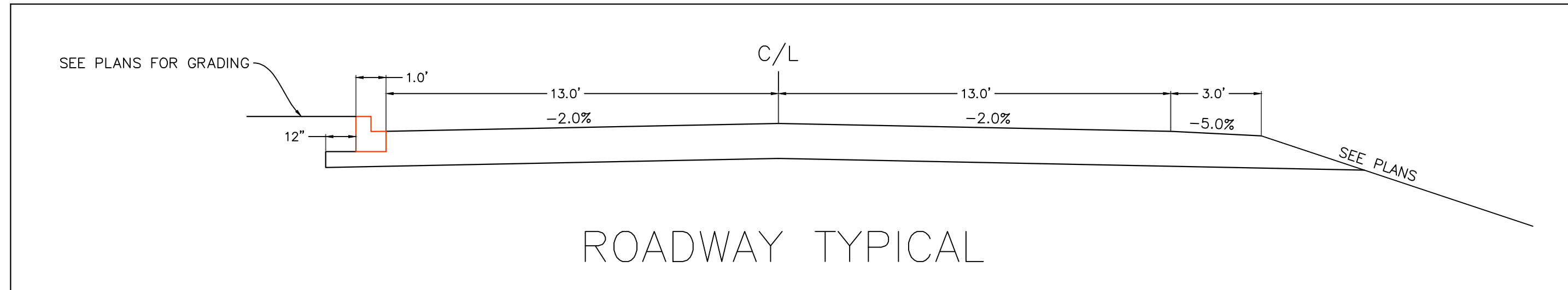
SCALE: 1" = 30' DATE: 6-02-2025

SHEET: **C1.01b**

LAYOUT

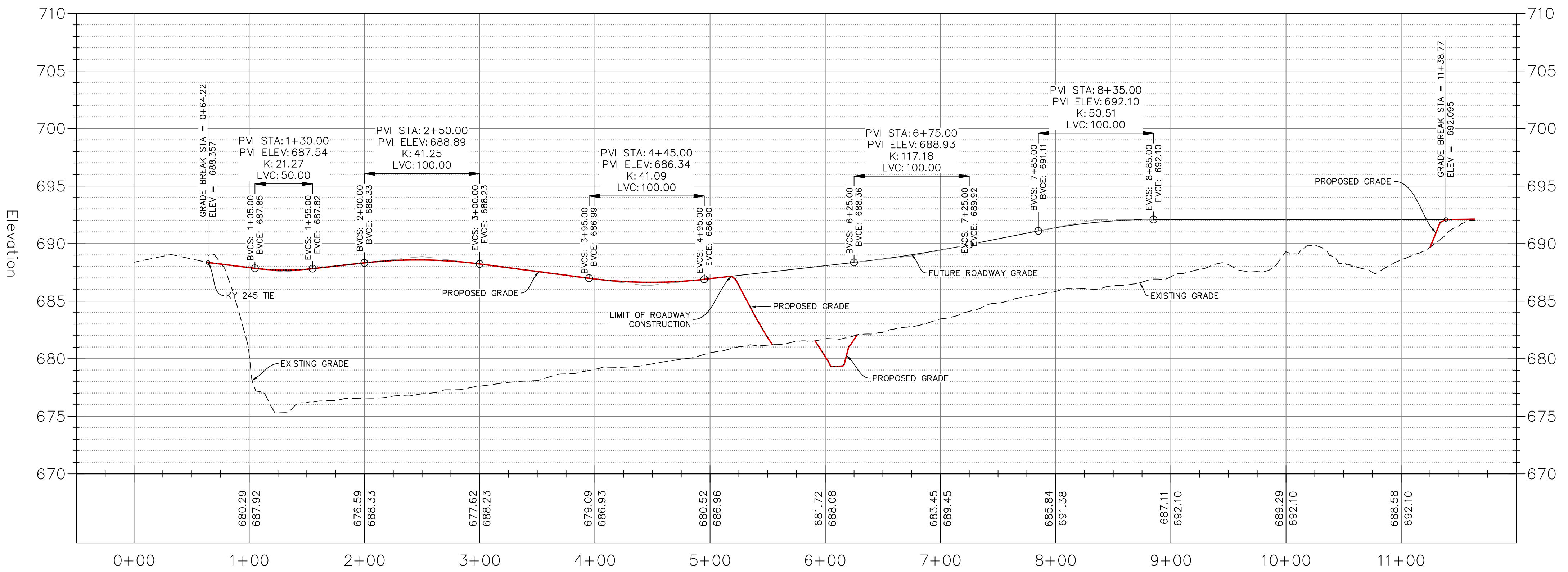


- DRAIN & GRADE NOTES:**
1. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN PRIOR TO THE CONTRACTOR RECEIVING AND REVIEWING THE REQUIRED PERMITS AND APPROVALS.
 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DRAINAGE AND UTILITY CONNECTIONS TO ENSURE THEY CAN BE PROPERLY CONNECTED.
 3. NO DISTURBANCE TO THE NATURAL GROUND SHALL TAKE PLACE PRIOR TO HAVING THE PROPOSED EROSION CONTROL PLAN APPROVED AND IN PLACE.
 4. IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
 5. UNLESS NOTED OTHERWISE, THE SPOT ELEVATIONS SHOWN ARE TO THE BOTTOM FACE OF CURB OR SIDEWALK.
 6. THE AGGREGATE BASE & ASPHALT COURSES SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, & TESTING REQUIREMENTS OF THESE DRAWINGS AND THE CURRENT EDITION OF THE KENTUCKY TRANSPORTATION CABBINET STANDARD SPECIFICATIONS.
 7. ALL SETBACKS SHALL BE IN ACCORDANCE WITH THE LOCAL ZONING ORDINANCE.
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 9. THE CONTRACTOR SHALL VERIFY POSITIVE FLOW FOR ALL STORM SEWER PIPE. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
 10. ALL DISTURBED AREAS OUTSIDE THE PROJECT LIMITS, INCLUDING ADJOINING PROPERTIES AND/OR RIGHT-OF-WAY SHALL BE REPAIRED, SEEDED, AND STRAWED.
 11. ALL CURB STOPS AND CURB CUTS ABUTTING TRAVELED WAYS SHALL TAPER TO ASPHALT GRADE AT A MIN. 4:1 SLOPE.



- SITE LEGEND**
- = LIGHT POLES/SECURITY LIGHT
 - BM = BENCHMARK
 - +690.00 = PROPOSED GRADE SPOT SHOT
 - +690.001 = INDICATES TOP OF CURB/SIDEWALK
 - +690.00 = EXISTING GRADE SPOT SHOT
 - = PROPOSED STORM PIPE
 - = CONCRETE AREA
 - = PROPERTY LINES
 - = EXISTING CONTOURS
 - = PROPOSED CONTOURS
 - = DISTURB LIMITS

Alignment – NOC Distribution PROFILE



Scale: 0' 60' 120' 180'

Kentucky 811

FIVE STAR

Newcomb OIL CO.

NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004

KWM & LAND SURVEYING

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Nathan@nallanking.net

REVISIONS:
BID SET

DATE:
6-02-2025

SCALE: 1" = 60'

DATE:
6-02-2025

SHEET:
PROPOSED GRADING PLAN

C2.01

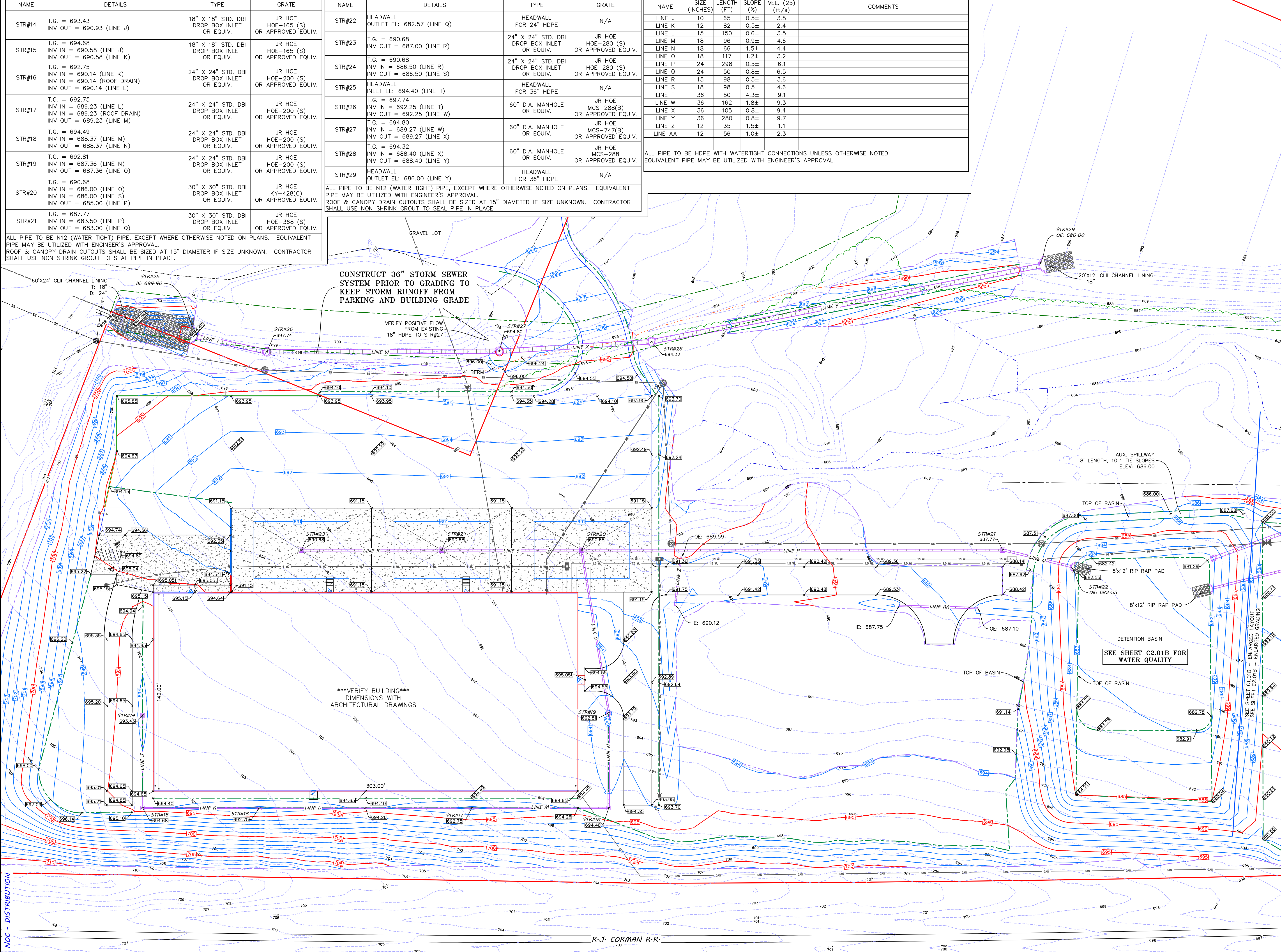
NOC - DISTRIBUTION

NOC - DISTRIBUTION

STRUCTURE TABLE			
NAME	DETAILS	TYPE	GRATE
STR#14	T.G. = 693.43 INV OUT = 690.93 (LINE J)	18" X 18" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-165 (S) OR APPROVED EQUIV.
STR#15	T.G. = 694.68 INV IN = 690.58 (LINE J) INV OUT = 690.58 (LINE K)	18" X 18" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-165 (S) OR APPROVED EQUIV.
STR#16	T.G. = 692.75 INV IN = 690.14 (LINE K) INV IN = 690.14 (ROOF DRAIN) INV OUT = 690.14 (LINE L)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-200 (S) OR APPROVED EQUIV.
STR#17	T.G. = 692.75 INV IN = 689.23 (LINE L) INV IN = 689.23 (ROOF DRAIN) INV OUT = 689.23 (LINE M)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-200 (S) OR APPROVED EQUIV.
STR#18	T.G. = 694.49 INV IN = 688.37 (LINE M) INV OUT = 688.37 (LINE N)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-200 (S) OR APPROVED EQUIV.
STR#19	T.G. = 692.81 INV IN = 687.36 (LINE N) INV OUT = 687.36 (LINE O)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-200 (S) OR APPROVED EQUIV.
STR#20	T.G. = 690.68 INV IN = 686.00 (LINE O) INV IN = 686.00 (LINE S) INV OUT = 685.00 (LINE P)	30" X 30" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE KY-428(C) OR APPROVED EQUIV.
STR#21	T.G. = 687.77 INV IN = 683.50 (LINE P) INV OUT = 683.00 (LINE Q)	30" X 30" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-368 (S) OR APPROVED EQUIV.
ALL PIPE TO BE N12 (WATER TIGHT) PIPE, EXCEPT WHERE OTHERWISE NOTED ON PLANS. EQUIVALENT PIPE MAY BE UTILIZED WITH ENGINEER'S APPROVAL. ROOF & CANOPY DRAIN CUTOUTS SHALL BE SIZED AT 15" DIAMETER IF SIZE UNKNOWN. CONTRACTOR SHALL USE NON SHRINK GROUT TO SEAL PIPE IN PLACE.			

STRUCTURE TABLE			
NAME	DETAILS	TYPE	GRATE
STR#22	HEADWALL OUTLET EL: 682.57 (LINE Q)	HEADWALL FOR 24" HOPE	N/A
STR#23	T.G. = 690.68 INV OUT = 687.00 (LINE R)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-280 (S) OR APPROVED EQUIV.
STR#24	T.G. = 690.68 INV IN = 686.50 (LINE R) INV OUT = 686.50 (LINE S)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-280 (S) OR APPROVED EQUIV.
STR#25	HEADWALL INLET EL: 694.40 (LINE T)	HEADWALL FOR 36" HOPE	N/A
STR#26	T.G. = 697.74 INV IN = 692.25 (LINE T) INV OUT = 692.25 (LINE W)	60" DIA. MANHOLE OR EQUIV.	JR HOE MCS-288(B) OR APPROVED EQUIV.
STR#27	T.G. = 694.80 INV IN = 689.27 (LINE W) INV OUT = 689.27 (LINE X)	60" DIA. MANHOLE OR EQUIV.	JR HOE MCS-747(B) OR APPROVED EQUIV.
STR#28	T.G. = 694.32 INV IN = 688.40 (LINE X) INV OUT = 688.40 (LINE Y)	60" DIA. MANHOLE OR EQUIV.	JR HOE MCS-288 OR APPROVED EQUIV.
STR#29	HEADWALL OUTLET EL: 686.00 (LINE Y)	HEADWALL FOR 36" HOPE	N/A
ALL PIPE TO BE N12 (WATER TIGHT) PIPE, EXCEPT WHERE OTHERWISE NOTED ON PLANS. EQUIVALENT PIPE MAY BE UTILIZED WITH ENGINEER'S APPROVAL. ROOF & CANOPY DRAIN CUTOUTS SHALL BE SIZED AT 15" DIAMETER IF SIZE UNKNOWN. CONTRACTOR SHALL USE NON SHRINK GROUT TO SEAL PIPE IN PLACE.			

PIPE TABLE					
NAME	SIZE (INCHES)	LENGTH (FT)	SLOPE (%)	VEL. (25) (ft/s)	COMMENTS
LINE J	10	65	0.5±	3.8	
LINE K	12	82	0.5±	2.4	
LINE L	15	150	0.6±	3.5	
LINE M	18	96	0.9±	4.6	
LINE N	18	66	1.5±	4.4	
LINE O	18	117	1.2±	3.2	
LINE P	24	298	0.5±	6.1	
LINE Q	24	50	0.8±	6.5	
LINE R	15	98	0.5±	3.6	
LINE S	18	98	0.5±	4.6	
LINE T	36	50	4.3±	9.1	
LINE W	36	162	1.8±	9.3	
LINE X	36	105	0.8±	9.4	
LINE Y	36	280	0.8±	9.7	
LINE Z	12	35	1.5±	1.1	
LINE AA	12	56	1.0±	2.3	
ALL PIPE TO BE HDPE WITH WATERTIGHT CONNECTIONS UNLESS OTHERWISE NOTED. EQUIVALENT PIPE MAY BE UTILIZED WITH ENGINEER'S APPROVAL.					



- DRAIN & GRADE NOTES:**
- PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN PRIOR TO THE CONTRACTOR RECEIVING AND REVIEWING THE REQUIRED PERMITS AND APPROVALS.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DRAINAGE AND UTILITY CONNECTIONS TO ENSURE THEY CAN BE PROPERLY CONNECTED.
 - NO DISTURBANCE TO THE NATURAL GROUND SHALL TAKE PLACE PRIOR TO HAVING THE PROPOSED EROSION CONTROL PLAN APPROVED AND IN PLACE.
 - IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
 - UNLESS NOTED OTHERWISE, THE SPOT ELEVATIONS SHOWN ARE TO THE BOTTOM FACE OF CURB OR SIDEWALK.
 - THE AGGREGATE BASE & ASPHALT COURSES SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, & TESTING REQUIREMENTS OF THESE DRAWINGS AND THE CURRENT EDITION OF THE KENTUCKY TRANSPORTATION CANTON STANDARD SPECIFICATIONS.
 - ALL SETBACKS SHALL BE IN ACCORDANCE WITH THE LOCAL ZONING ORDINANCE.
 - THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES INVOLVED. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT.
 - THE CONTRACTOR SHALL VERIFY POSITIVE FLOW FOR ALL STORM SEWER PIPE. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
 - ALL DISTURBED AREAS OUTSIDE THE PROJECT LIMITS, INCLUDING ADJACENT PROPERTIES AND/OR RIGHT-OF-WAY SHALL BE REPAIRED, SEEDED, AND STRAWED.
 - IN TRAFFIC AREAS, ALL STORM SEWER TRENCHES SHALL BE BACKFILLED TO BOTTOM OF DGA SUBGRADE WITH #57 STONE.
 - ALL CURB STOPS AND CURB CUTS ABUTTING TRAVELED WAYS SHALL TAPER TO ASPHALT GRADE AT A MIN. 4:1 SLOPE.



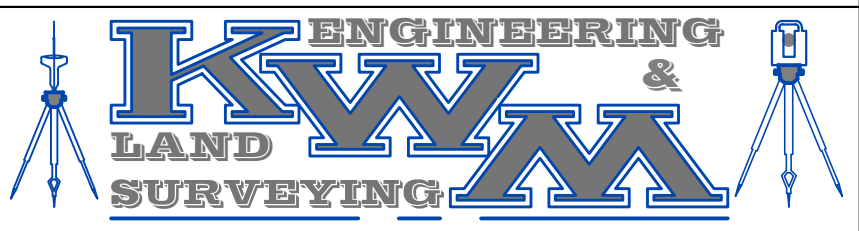
SITE LEGEND

- ⊕ = SURVEY CONTROL
- +690.00 = PROPOSED GRADE SPOT SHOT
- +690.00 = INDICATES TOP OF CURB/SIDEWALK
- +690.00 = EXISTING GRADE SPOT SHOT
- = PROPOSED STORM PIPE
- = CONCRETE AREA
- = PROPERTY LINES
- 690 = EXISTING CONTOURS
- 694 = PROPOSED CONTOURS
- = DISTURB LIMITS

0' 30' 60' 90'



NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004



LEBANON OFFICE:
335 N. WOODLAWN AVE.
LEBANON, KY 40033

NATHAN ALLAN KING
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Nathan@nkykwm.net

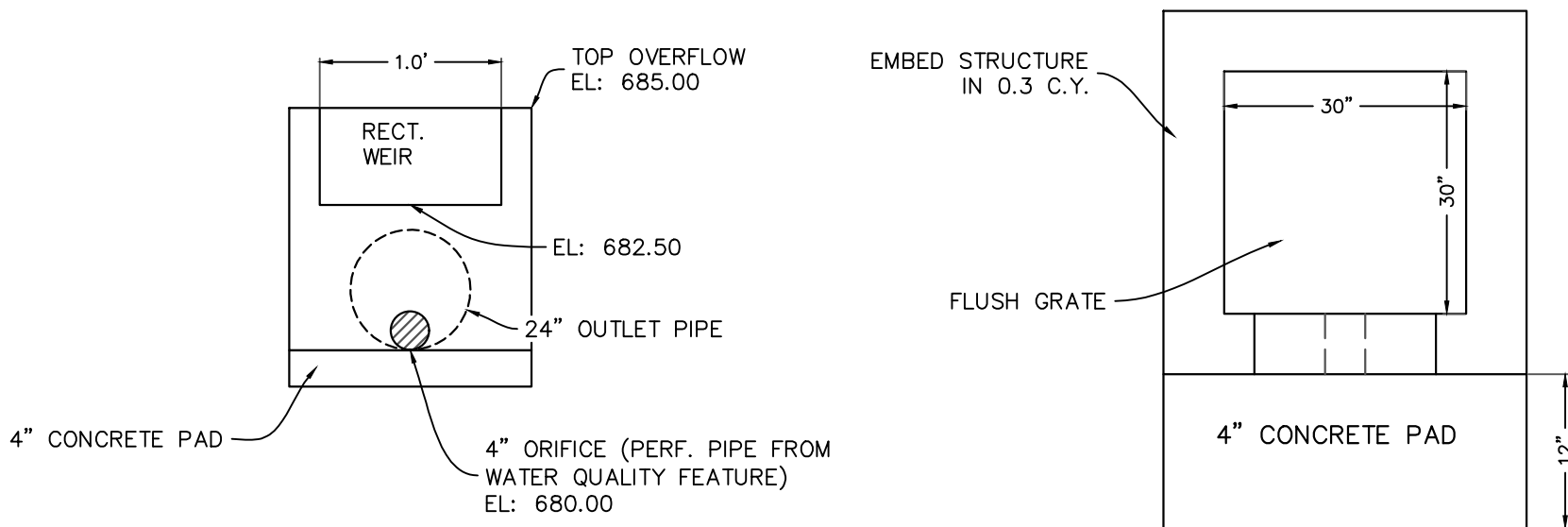
REVISIONS:	DATE:
BID SET	6-02-2025
SCALE: 1" = 30'	DATE: 6-02-2025
SHEET: DRAINAGE & GRADING PLAN	
C2.01a	

DRAIN & GRADE NOTES:

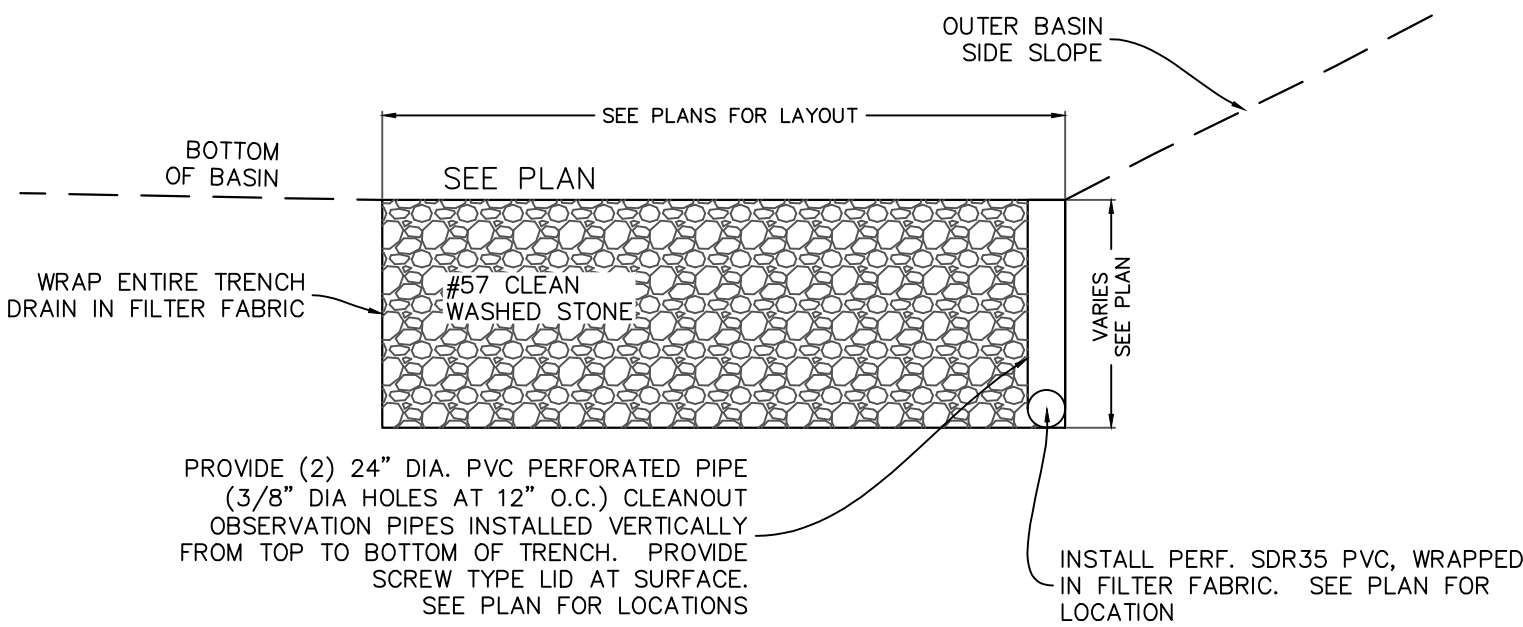
- PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN PRIOR TO THE CONTRACTOR RECEIVING AND REVIEWING THE REQUIRED PERMITS AND APPROVALS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DRAINAGE AND UTILITY CONNECTIONS TO ENSURE THEY CAN BE PROPERLY CONNECTED.
- NO DISTURBANCE TO THE NATURAL GROUND SHALL TAKE PLACE PRIOR TO HAVING THE PROPOSED EROSION CONTROL PLAN APPROVED AND IN PLACE.
- IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- UNLESS NOTED OTHERWISE, THE SPOT ELEVATIONS SHOWN ARE TO THE BOTTOM FACE OF CURB OR SIDEWALK.
- THE APPROPRIATE BASE & ASPHALT COURSES SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, & TESTING REQUIREMENTS OF THESE DRAWINGS AND THE CURRENT EDITION OF THE KENTUCKY TRANSPORTATION CANNON STANDARD SPECIFICATIONS.
- ALL SETBACKS SHALL BE IN ACCORDANCE WITH THE LOCAL ZONING ORDINANCE.
- THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES INVOLVED. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY POSITIVE FLOW FOR ALL STORM SEWER PIPE. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ALL DISTURBED AREAS OUTSIDE THE PROJECT LIMITS, INCLUDING ADJOINING PROPERTIES AND/OR RIGHT-OF-WAY SHALL BE REPAIRED, SEEDED, AND STRAWED.
- IN TRAFFIC AREAS, ALL STORM SEWER TRENCHES SHALL BE BACKFILLED TO BOTTOM OF DGA SUBGRADE WITH #57 STONE.
- ALL CURB STOPS AND CURB CUTS ABUTTING TRAVELED WAYS SHALL TAPER TO ASPHALT GRADE AT A MIN. 4:1 SLOPE.

SITE LEGEND

- ⊕ = SURVEY CONTROL
- +690.00 = PROPOSED GRADE SPOT SHOT
- +690.001 = INDICATES TOP OF CURB/SIDEWALK
- +690.007 = INDICATES TOP OF ROCK WATER QUALITY BASIN
- +690.008 = INDICATES BOTTOM OF WATER QUALITY BASIN
- +690.00 = EXISTING GRADE SPOT SHOT
- ▨ = PROPOSED STORM PIPE
- ▭ = CONCRETE AREA
- = PROPERTY LINES
- 690 = EXISTING CONTOURS
- 690 = PROPOSED CONTOURS
- = DISTURB LIMITS



STRUCTURE 12



WATER QUALITY INFILTRATION TRENCH

PROVIDE (2) 24" DIA. PVC PERFORATED PIPE (3/8" DIA HOLES AT 12" O.C.) CLEANOUT OBSERVATION PIPES INSTALLED VERTICALLY FROM TOP TO BOTTOM OF TRENCH. PROVIDE SCREW TYPE LID AT SURFACE. SEE PLAN FOR LOCATIONS

OPTION 2
TOPSOIL WASTE AREA
MAINTAIN MIN. 50' DISTANCE TO STREAM
FLATTEN SLOPES AS NEEDED

OPTION 1
TOPSOIL WASTE AREA
MAINTAIN MIN. 50' DISTANCE TO STREAM
FLATTEN SLOPES AS NEEDED

SEE SHEET C2.01C FOR
ENTRANCE & ROADWAY
LAYOUT & GRADING

SEE SHEET C2.01C FOR
GRADING ON R/W

SEE SHEET C2.01C FOR
STORM SEWER INFORMATION

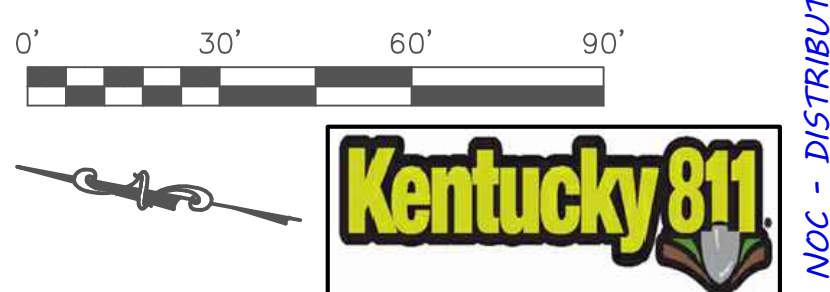
SEE SHEET C2.01C FOR
STORM SEWER INFORMATION

STRUCTURE TABLE			
NAME	DETAILS	TYPE	GRATE
STR#8	T.G. = 686.38 INV OUT = 683.05 (LINE F)	24" X 24" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE KY-485 (S) OR APPROVED EQUIV.
STR#9	T.G. = 686.20 INV IN = 682.90 (LINE F) INV OUT = 682.90 (LINE G)	30" X 30" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-368 (S) OR APPROVED EQUIV.
STR#10	T.G. = 686.89 INV IN = 682.45 (LINE G) INV OUT = 682.45 (LINE H)	30" X 30" STD. DBI DROP BOX INLET OR EQUIV.	JR HOE HOE-368 (S) OR APPROVED EQUIV.
STR#11	HEADWALL OUTLET EL: 681.50 (LINE H)	HEADWALL FOR 24" HDPE	N/A
STR#12	T.G. = 685.00 INV IN = 680.00 (4" WQV DRAIN PIPE) SEE DETAIL THIS SHEET	30" X 30" STD. DBI SEE DETENTION STRUCTURE DETAIL	JR HOE HOE-368 (S) OR APPROVED EQUIV.
STR#13	HEADWALL OUTLET EL: 679.40 (LINE I)	HEADWALL FOR 24" HDPE	N/A

ALL PIPE TO BE N12 (WATER TIGHT) PIPE, EXCEPT WHERE OTHERWISE NOTED ON PLANS. EQUIVALENT PIPE MAY BE UTILIZED WITH ENGINEER'S APPROVAL.
ROOF & CANOPY DRAIN CUTOUTS SHALL BE SIZED AT 15" DIAMETER IF SIZE UNKNOWN. CONTRACTOR SHALL USE NON SHRINK GROUT TO SEAL PIPE IN PLACE.

PIPE TABLE					
NAME	SIZE (INCHES)	LENGTH (FT)	SLOPE (%)	VEL. (25) (ft/s)	COMMENTS
LINE F	15	10	1.5±	1.0	
LINE G	24	93	0.5±	5.5	
LINE H	24	200	0.5±	4.9	
LINE I	24	125	0.5±	3.8	

ALL PIPE TO BE HDPE WITH WATERTIGHT CONNECTIONS UNLESS OTHERWISE NOTED. EQUIVALENT PIPE MAY BE UTILIZED WITH ENGINEER'S APPROVAL.



NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004



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MOBILE: (270) 590-4603
Nathan@nkykwm.net

REVISIONS:
BID SET

DATE:
6-02-2025

SCALE: 1" = 30'

DATE: 6-02-2025

SHEET: DRAINAGE & GRADING PLAN

C2.01b

- ## NOC - DISTRIBUTION



OPTION 1
TOPSOIL WASTE AREA
MAINTAIN MIN. 50' DISTANCE TO STREAM
FLATTEN SLOPES AS NEEDED

NAME	SIZE (INCHES)	LENGTH (FT)	SLOPE (%)	VEL. (25) (ft/s)	COMMENTS
LINE A	12	65	2.0±	1.6	
LINE B	12	325	1.6±	2.0	
LINE C	15	50	2.3±	1.1	USE CMP PIPE
LINE D	15	37	5.0±	7.9	USE CMP PIPE
LINE E	15	41	8.7±	3.5	USE CMP PIPE

ALL PIPE TO BE HDPE WITH WATERTIGHT CONNECTIONS UNLESS OTHERWISE NOTED.
EQUIVALENT PIPE MAY BE UTILIZED WITH ENGINEER'S APPROVAL.

ALL PIPE TO BE HDPE WITH WATERTIGHT CONNECTIONS UNLESS OTHERWISE NOTED.
EQUIVALENT PIPE MAY BE UTILIZED WITH ENGINEER'S APPROVAL.



CU CURB DETAIL
C4.01 N.T.S.



1. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN PRIOR TO THE CONTRACTOR RECEIVING AND REVIEWING ALL REQUIRED PERMITS AND APPROVALS.

2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DRAINAGE AND UTILITY CONNECTIONS TO THE PROJECT SHALL BE PROPERLY CONNECTED.

3. IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING OR SPECIFICATION, THE FOLLOWING SHALL PREVAIL: A. NOTHING IN THIS DRAWING SHALL BE CONSIDERED TO CONFLICT WITH ANY OTHER SPECIFICATION.

4. THE CONTRACTOR SHALL PROVIDE DIMENSIONS AND COORDINATES SHOWN HEREIN AREA TO THE EDGE OF THE ROAD CURBLINE, EDGE OF ASPHALT, FACE OF CURB, OR OUTSIDE FACE OF BUILDINGS/STRUCTURES.

5. THE MATERIALS, METHODS, AND CONSTRUCTION SHALL MEET THE MATERIALS, METHODS, EQUIPMENT, CONSTRUCTION, & TESTING REQUIREMENTS OF THESE DRAWINGS AND/OR THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS.

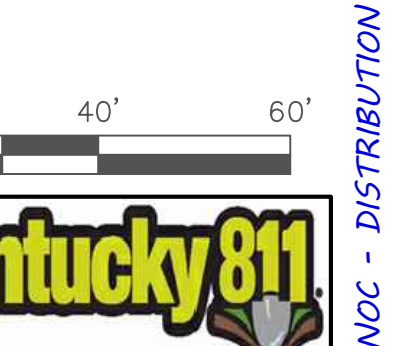
6. ALL SURFACE AND SUBSURFACE MATERIALS SHALL BE PROPERLY COMPACTED.

7. ALL PAVEMENT MARKINGS WITHIN THE DEVELOPMENT SHALL BE PAINTED. ALL PAVEMENT MARKINGS ON CITY OR STATE R/W SHALL CONFORM TO THE REGULATIONS OF THE KENTUCKY DEPARTMENT OF TRANSPORTATION.

8. ANY WORK WITHIN THE KYTC R/W WILL REQUIRE AN ENCROACHMENT PERMIT. ALL WORK WITHIN THE CITY R/W SHALL REQUIRE A CITY ENCROACHMENT PERMIT. GRASS AS PER KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

9. THE LOCATION OF ALL UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES INVOLVED. PROVIDE ADEQUATE NOTIFICATION TO ALL UTILITIES CONCERNING THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT.

10. ALL CURBS SHALL BE CONSTRUCTED TRAVELEDWAYS SHALL SLOPE UPWARD TO ASPHALT GRADE AT A MIN. 4:1 SLOPE.



 = SURVEY CONTROL

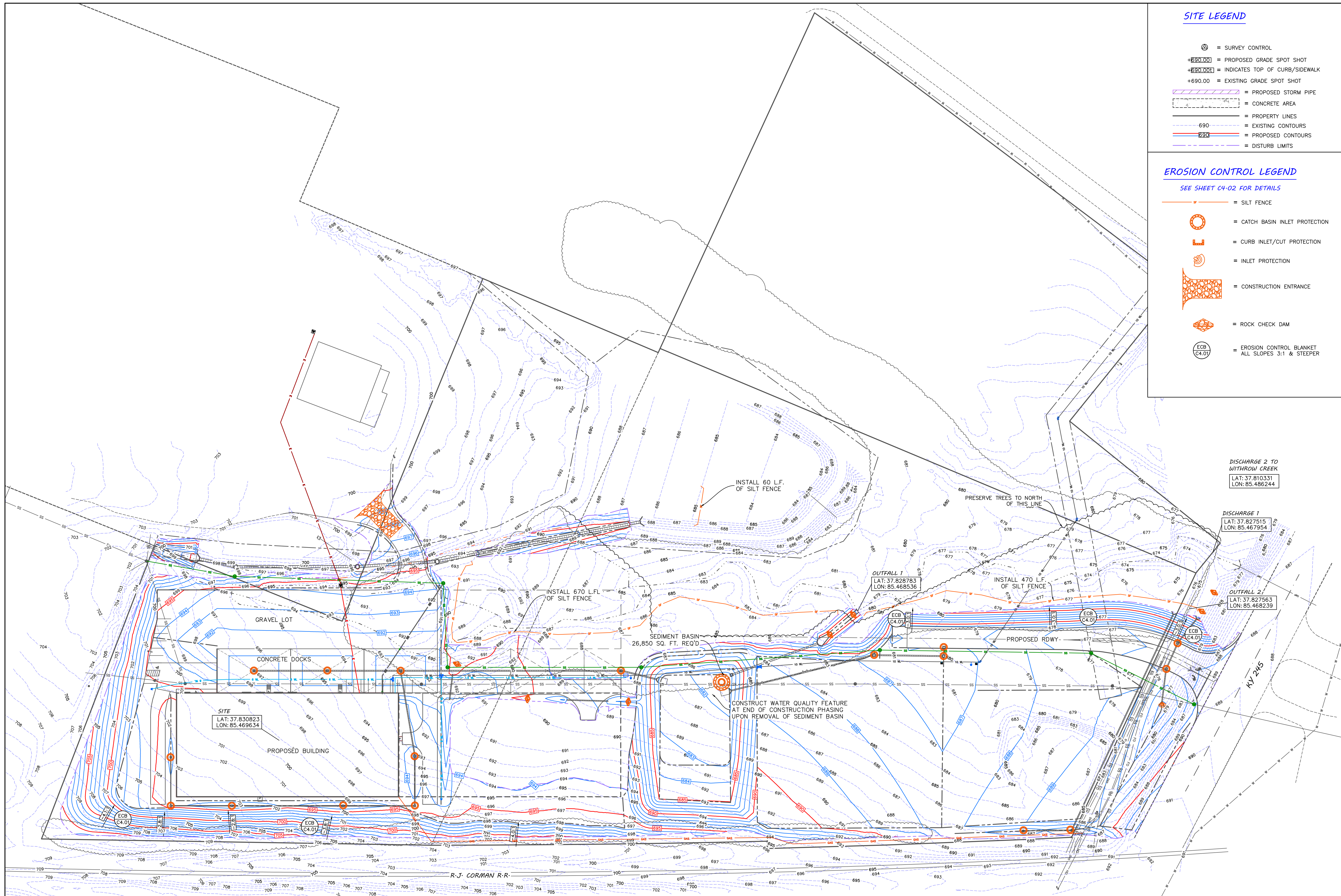
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KWM ENGINEERING &
LAND SURVEYING

SHEET: ENTRANCE LAYOUT & GRADING PLAN C2.01c

C2.01c

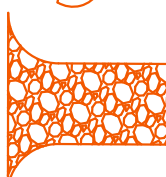


SITE LEGEND

-  = SURVEY CONTROL
 +690.00 = PROPOSED GRADE SPOT SHOT
 +690.001 = INDICATES TOP OF CURB/SIDEWALK
 +690.00 = EXISTING GRADE SPOT SHOT
 = PROPOSED STORM PIPE
 = CONCRETE AREA
 = PROPERTY LINES
 690 = EXISTING CONTOURS
 690 = PROPOSED CONTOURS
 = DISTURB LIMITS

EROSION CONTROL LEGEND

SEE SHEET C4.02 FOR DETAILS

- | | |
|---|---|
|  | = SILT FENCE |
|  | = CATCH BASIN INLET PROTECTION |
|  | = CURB INLET/CUT PROTECTION |
|  | = INLET PROTECTION |
|  | = CONSTRUCTION ENTRANCE |
|  | = ROCK CHECK DAM |
|  | = EROSION CONTROL BLANKET
ALL SLOPES 3:1 & STEEPER |

DISCHARGE 2 TO
WITHROW CREEK

LAT: 37.810331
LON: 85.486244

DISCHARGE 1

LAT: 37.827515
LON: 85.467954

OUTFALL 1
LAT: 37.828783
LON: 85.468536

OUTFALL 2:
LAT: 37.827563
LON: 85.468239

SITE

LAT: 37.830823
LON: 85.469634

CONSTRUCT WATER QUALITY FEATURE
AT END OF CONSTRUCTION PHASING
UPON REMOVAL OF SEDIMENT BASIN

SEDIMENT BASIN

INSTALL 60
OF SILT FEM

E TREES TO NORTH
OF THIS LINE

INSTALL 670 L.FL
OF SILT FENCE

GRAVEL LOT

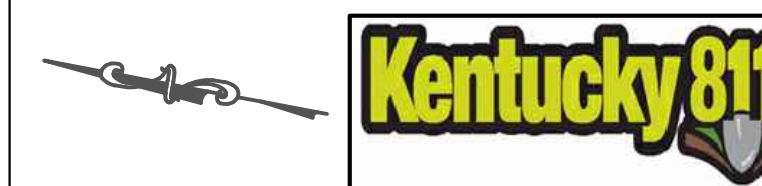
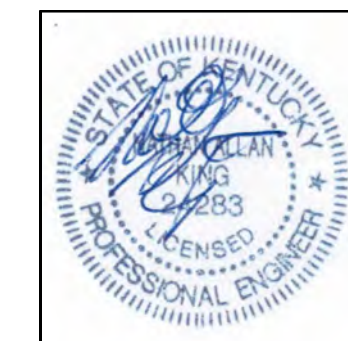
CONCRETE DOCKS.

PROPOSED BUILDING

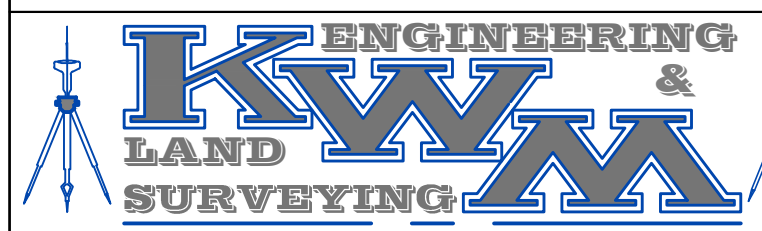
R. J. CORMAN R.R.

PROPOSED RDWY-

245



NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004

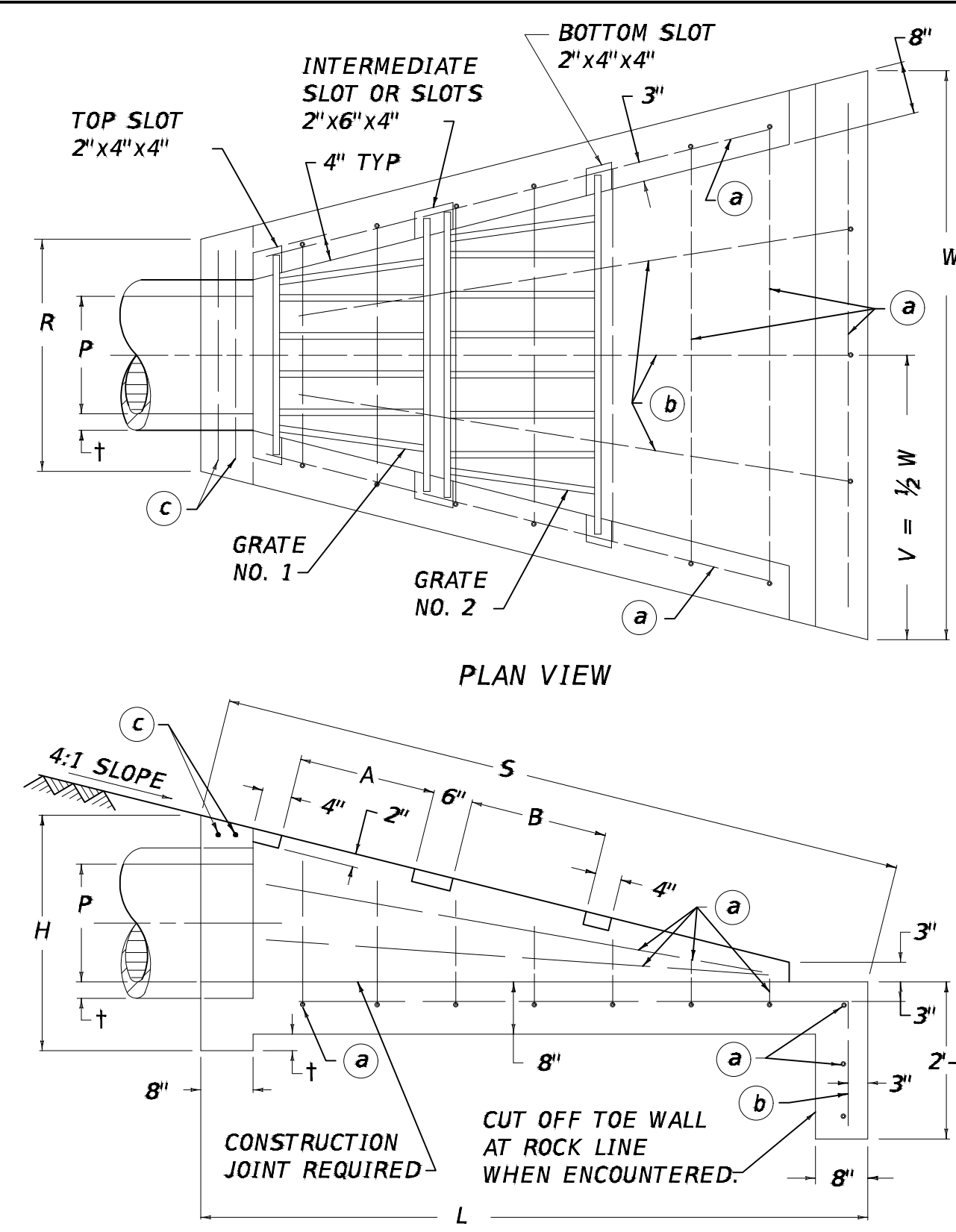


LEBANON OFFICE:
335 N. WOODLAWN AVE.
LEBANON, KY 40033

REVISIONS:	DATE:
BID SET	6-02-2025
REVISED GAS CANOPY PAD	07-23-2024
GRADING REVISION	09-14-2024

SCALE: 1" = 60'	DATE: 6-02-20
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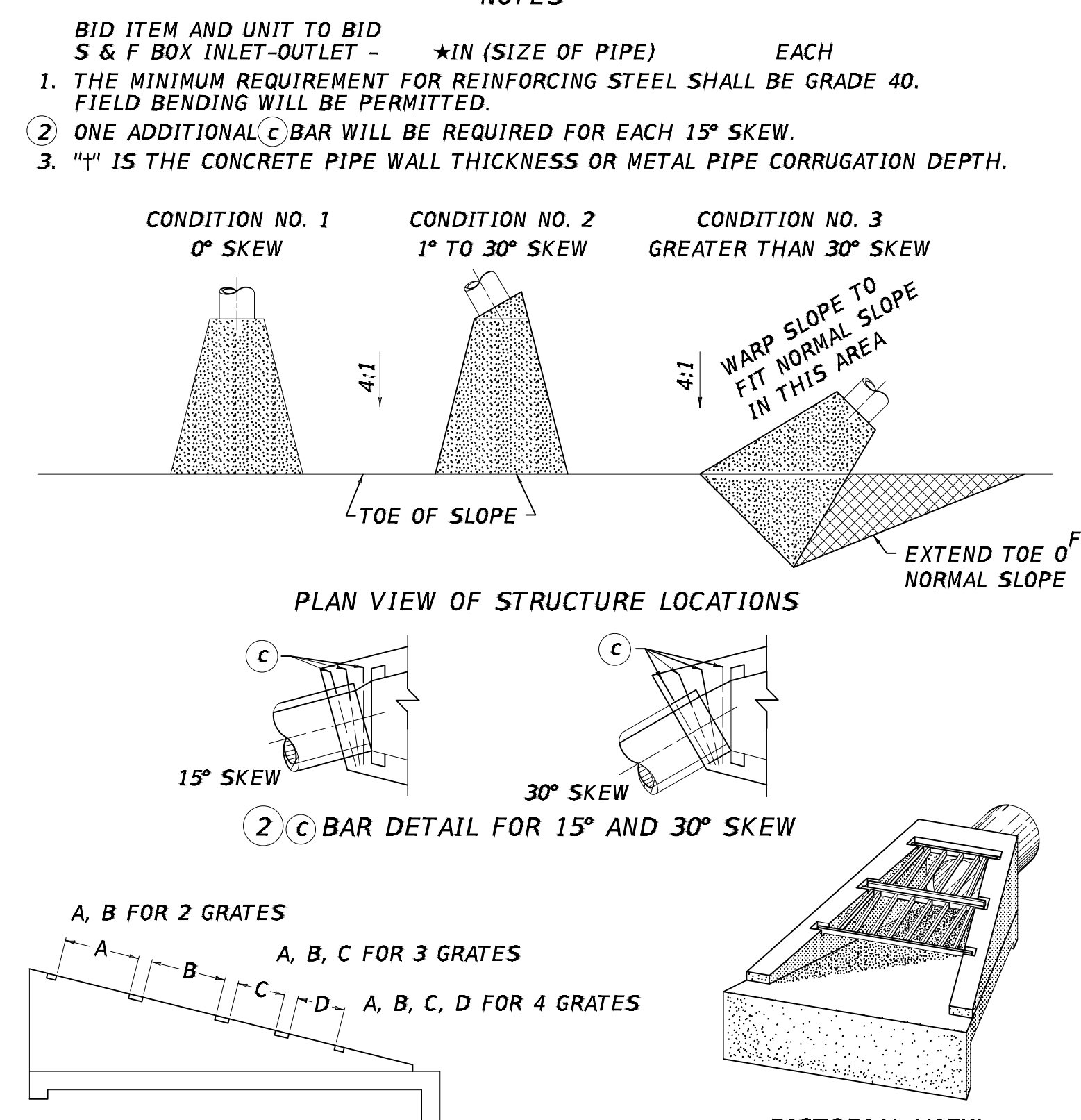
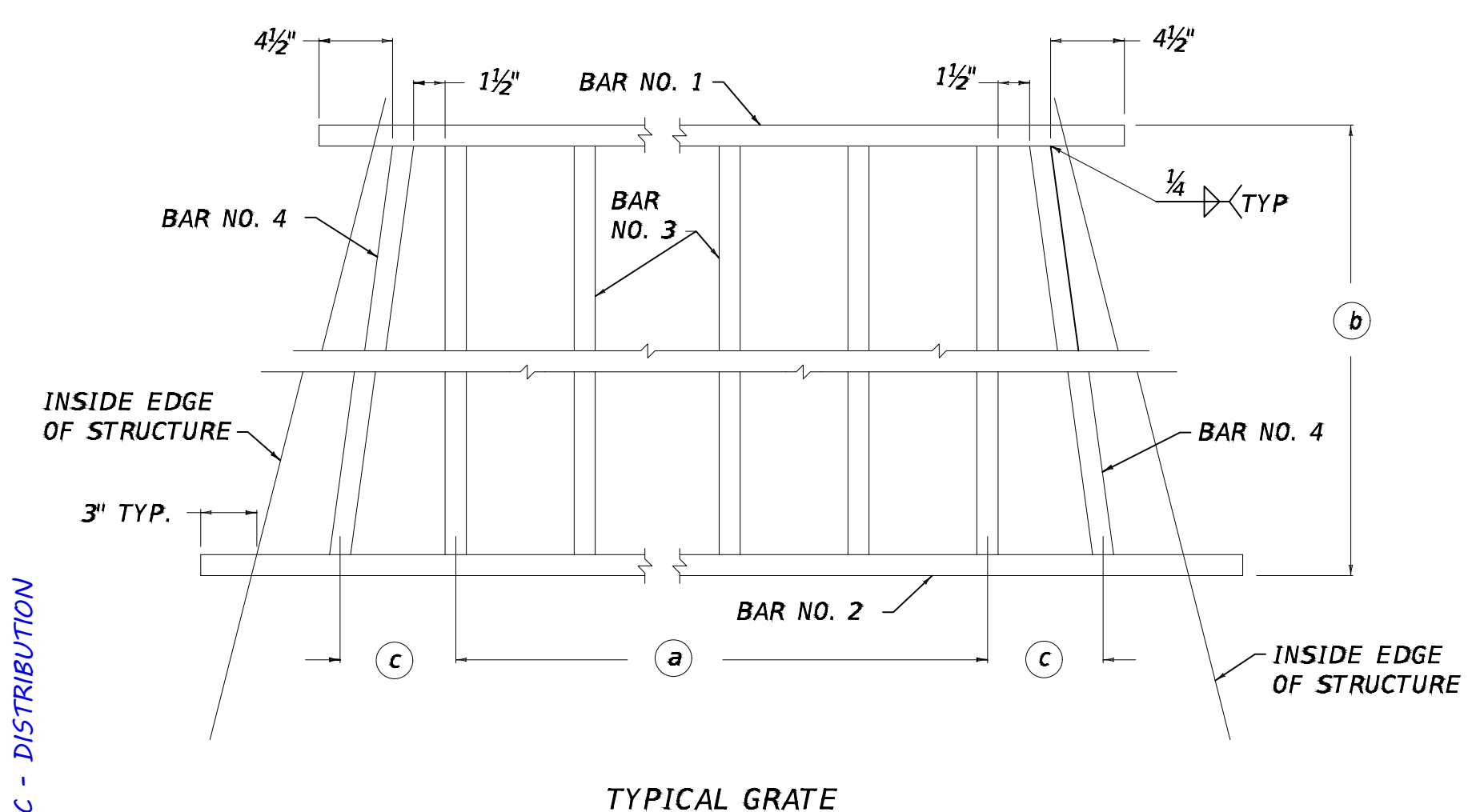
SHEET: PROPOSED EROSION
& SEDIMENT
CONTROL PLAN C3.01



DIMENSIONS									
P	H	L	S	R	V	W	A	B	C
18"	3'-0"	8'-6"	8'-9 1/8"	2'-11 1/2"	3'-7 1/2"	7'-3"	1'-9"	1'-9"	-----
24"	3'-7"	10'-8"	11'-0"	3'-6 1/2"	4'-5 1/2"	8'-11"	2'-9"	2'-9"	-----
30"	4'-2"	12'-10"	13'-2 3/4"	4'-1 1/2"	5'-3 1/2"	10'-7"	2'-9"	2'-9"	1'-9"
36"	4'-9"	15'-0"	15'-5 1/2"	4'-8 1/2"	6'-1 1/2"	12'-3"	2'-9"	2'-9"	1'-9"

NO. OF GRATES REQ'D.		NO. 4 REINFORCEMENT BARS NUMBER - LENGTH AND WEIGHT				CLASS A CONC.	
2'	3'	(a)	(b)	(c)	(d)	LBS.	CU.YDS.
2	---	14 @ 6'-5"	3 @ 8'-6"	2 @ 2'-8"	81	1.8	---
---	2	16 @ 8'-0"	3 @ 10'-6"	2 @ 3'-3"	111	2.7	---
1	2	---	3 @ 12'-9"	2 @ 3'-10"	146	3.8	---
2	2	20 @ 11'-4"	3 @ 15'-0"	2 @ 4'-5"	187	5.1	---

DIMENSIONS							
BOX INLET - OUTLET SIZE	GRATE	BAR NO. 1	BAR NO. 2	BARS NO. 3	BARS NO. 4	LBS. STRUCTURAL STEEL	
18"	1	2'-0"	2'-6 1/2"	3'-5 3/4"	4	1'-10"	1'-10 1/4"
	2	2'-0"	3'-7 7/8"	4'-6 1/8"	6	1'-10"	1'-10 1/4"
24"	1	3'-0"	3'-1 1/2"	4'-6 3/8"	5	2'-10"	2'-10 3/8"
	2	3'-0"	4'-8 1/2"	6'-1 5/8"	8	2'-10"	2'-10 3/8"
30"	1	3'-0"	3'-8 1/2"	5'-1 1/2"	6	2'-10"	2'-10 3/8"
	2	3'-0"	5'-3 1/2"	6'-8 3/8"	9	2'-10"	2'-10 3/8"
	3	2'-0"	6'-10 1/2"	7'-9 3/4"	13	1'-10"	1'-10 1/4"
36"	1	3'-0"	4'-3 1/2"	5'-8 1/2"	7	2'-10"	2'-10 3/8"
	2	3'-0"	5'-10 1/2"	7'-3 3/8"	10	2'-10"	2'-10 3/8"
	3	2'-0"	7'-5 1/2"	8'-4 3/4"	14	1'-10"	1'-10 1/4"
	4	2'-0"	8'-6 3/4"	9'-5 7/8"	16	1'-10"	1'-10 1/4"



NO. OF GRATES REQ'D.		NO. 4 REINFORCEMENT BARS NUMBER - LENGTH AND WEIGHT				CLASS A CONC.	
2'	3'	(a)	(b)	(c)	(d)	LBS.	CU.YDS.
2	---	14 @ 6'-5"	3 @ 8'-6"	2 @ 2'-8"	81	1.8	---
---	2	16 @ 8'-0"	3 @ 10'-6"	2 @ 3'-3"	111	2.7	---
1	2	---	3 @ 12'-9"	2 @ 3'-10"	146	3.8	---
2	2	20 @ 11'-4"	3 @ 15'-0"	2 @ 4'-5"	187	5.1	---

DIMENSIONS							
BOX INLET - OUTLET SIZE	GRATE	BAR NO. 1	BAR NO. 2	BARS NO. 3	BARS NO. 4	LBS. STRUCTURAL STEEL	
18"	1	2'-0"	2'-6 1/2"	3'-5 3/4"	4	1'-10"	1'-10 1/4"
	2	2'-0"	3'-7 7/8"	4'-6 1/8"	6	1'-10"	1'-10 1/4"
24"	1	3'-0"	3'-1 1/2"	4'-6 3/8"	5	2'-10"	2'-10 3/8"
	2	3'-0"	4'-8 1/2"	6'-1 5/8"	8	2'-10"	2'-10 3/8"
30"	1	3'-0"	3'-8 1/2"	5'-1 1/2"	6	2'-10"	2'-10 3/8"
	2	3'-0"	5'-3 1/2"	6'-8 3/8"	9	2'-10"	2'-10 3/8"
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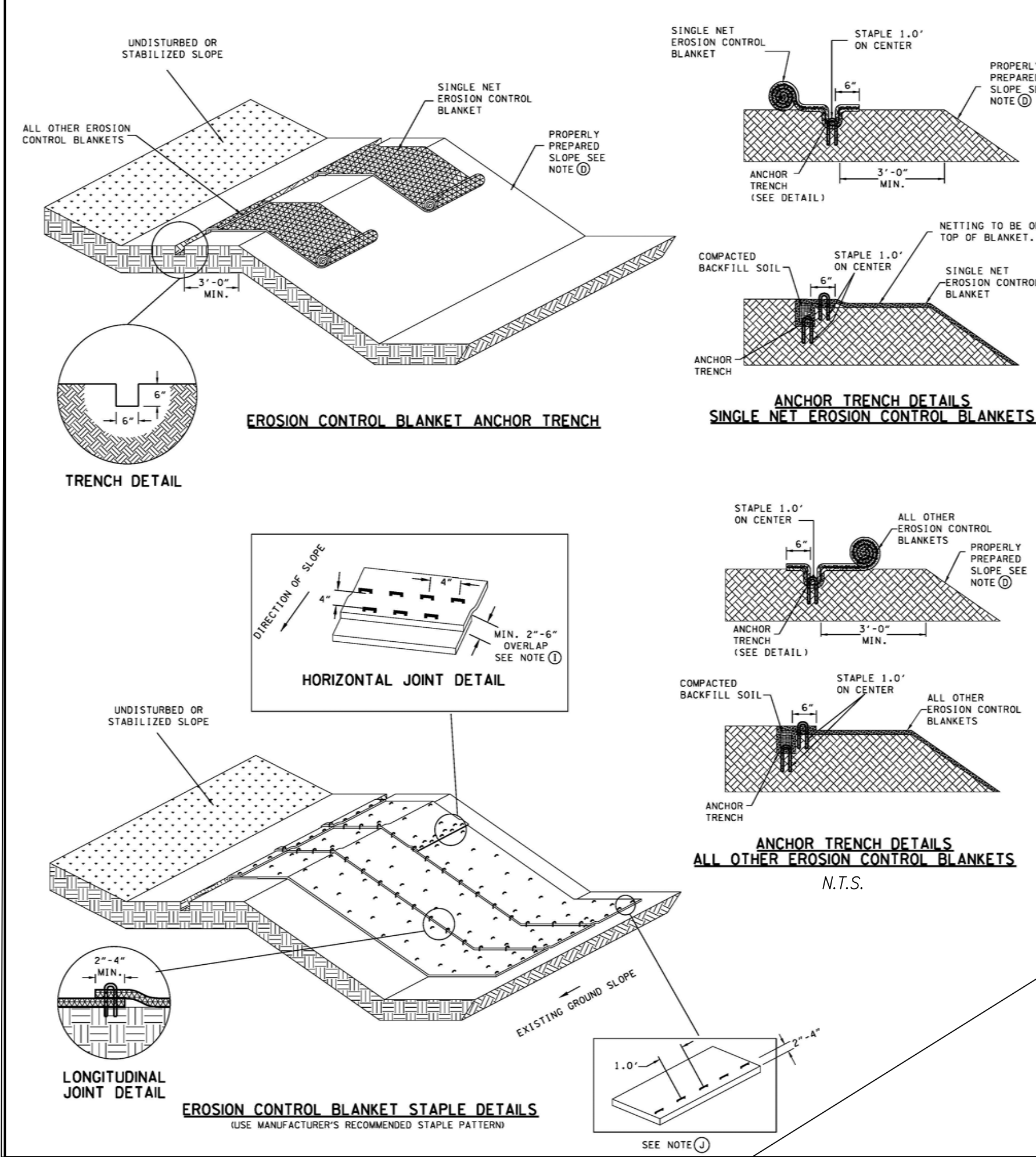
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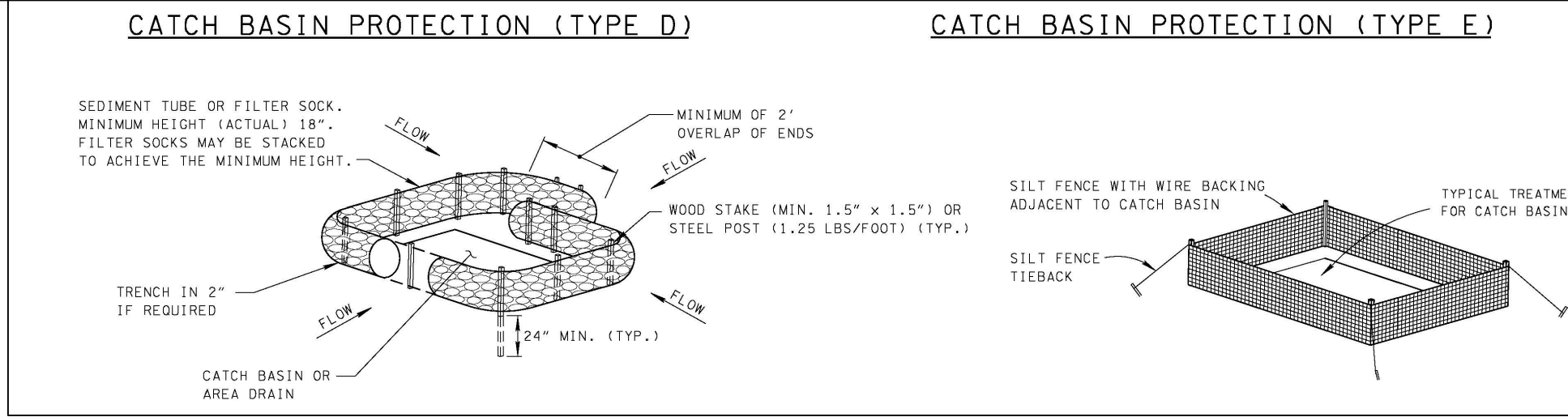
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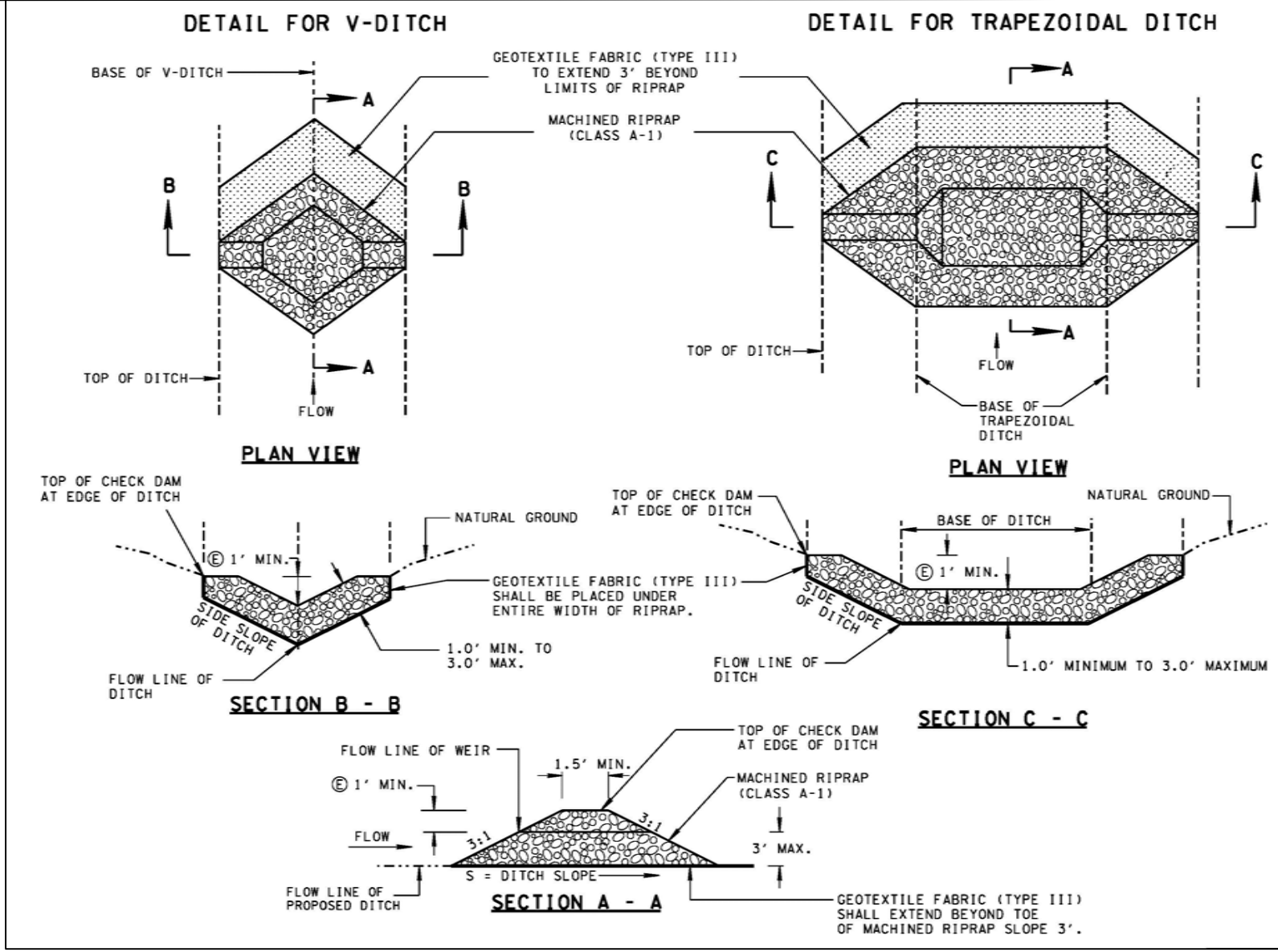
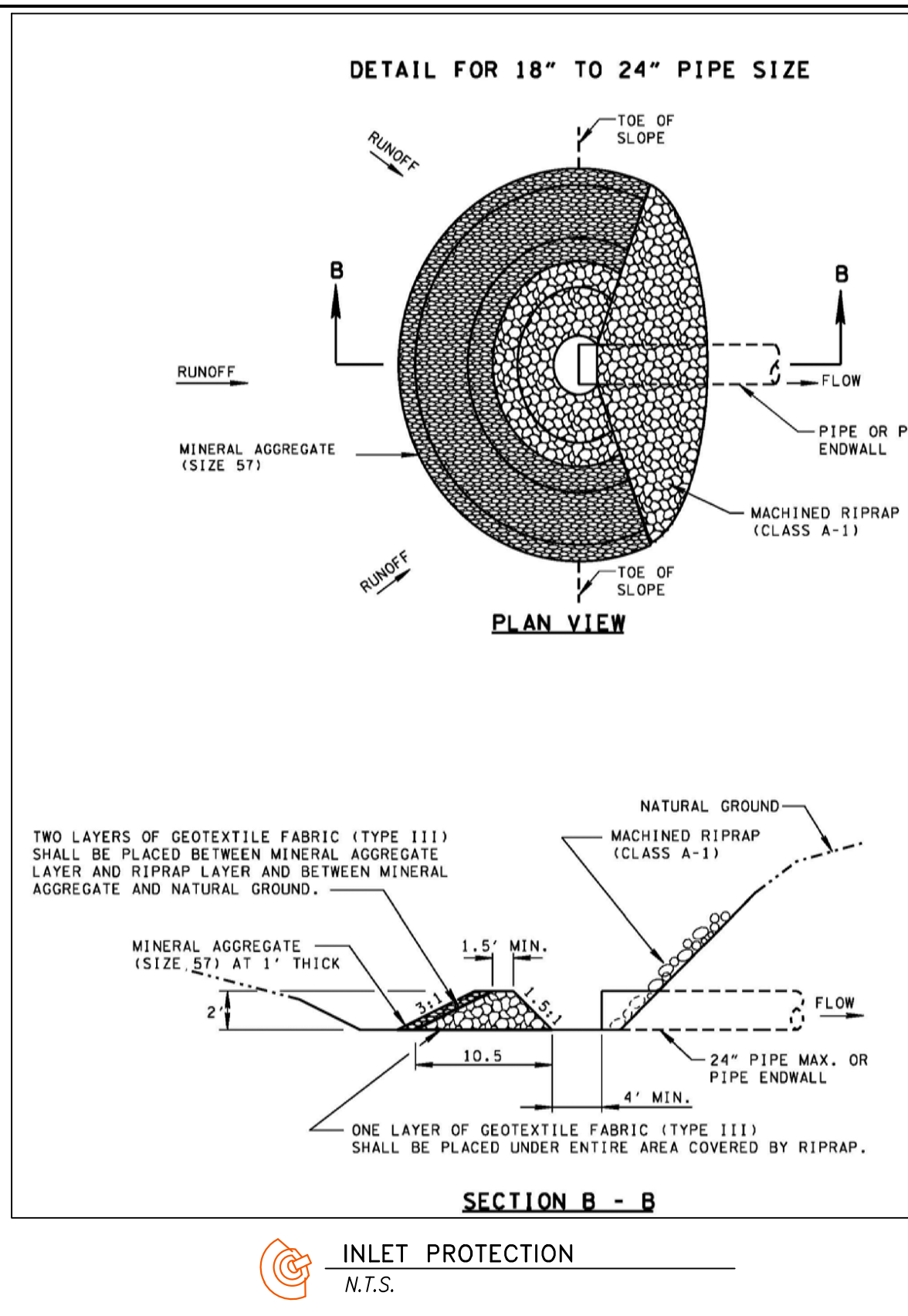


EROSION CONTROL BLANKET SLOPE INSTALLATION GENERAL NOTES

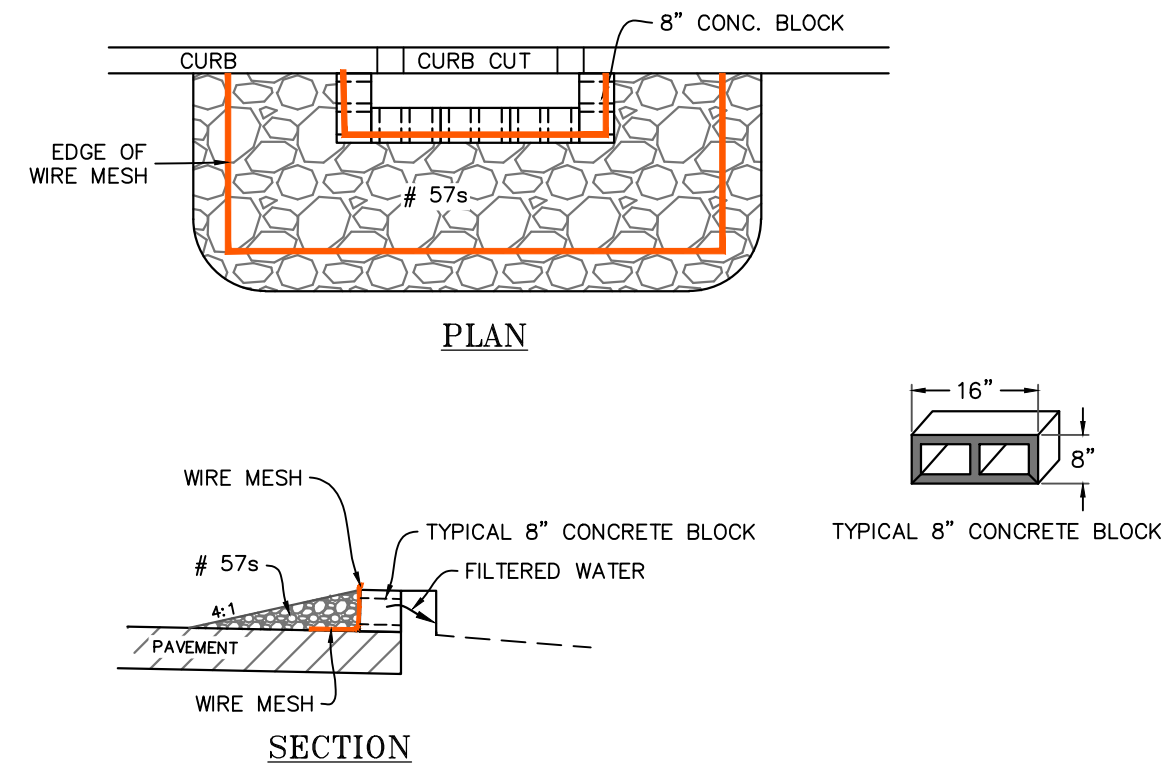
- EROSION CONTROL BLANKETS ARE INTENDED TO BE USED AS AN IMMEDIATE MULCH COVER FOR DISTURBED SLOPES THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED.
- EROSION CONTROL BLANKETS MAY ALSO BE USED AS CHANNEL LINERS WHERE THE ANTICIPATED MAXIMUM SHEAR STRESS IS LOW. REFER TO EC-STP-36 FOR INSTALLATION DETAILS.
- EROSION CONTROL BLANKETS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS. WHEN NOT AVAILABLE, INSTALL ACCORDING TO NOTES D THRU J.
- STEP ONE: SITE PREPARATION**
THE SITE SHOULD BE FINE GRADED TO A SMOOTH PROFILE AND RELATIVELY FREE FROM ALL WEEDS, CLODS, STONES, ROOTS, STICKS, RIVULETS, GULLIES, CRUSTING AND CAKING. FILL ANY VOIDS AND MAKE SURE THE SLOPE IS COMPACTED PROPERLY.
- STEP TWO: SEEDING**
SEEDING WITHOUT MULCH SHOULD BE APPLIED TO THE AREA TO BE VEGETATED.
- STEP THREE: PREPARE THE ANCHOR TRENCH**
AT THE TOP OF THE SLOPE EXCAVATE AN ANCHOR TRENCH 6 INCHES DEEP BY 6 INCHES WIDE. THE EROSION CONTROL BLANKET WILL BE ANCHORED INTO THE TRENCH BY STAPLES. ALLOW A MINIMUM OF 3 FEET FROM THE CREST OF THE SLOPE TO THE ANCHOR TRENCH.
- STEP FOUR: SECURE THE EROSION CONTROL BLANKET IN THE ANCHOR TRENCH**
BEGIN EROSION CONTROL BLANKET PLACEMENT 30 INCHES ABOVE THE ANCHOR TRENCH. RUN THE EROSION CONTROL BLANKET INTO THE ANCHOR TRENCH. ANCHOR THE EROSION CONTROL BLANKET WITH STAPLES ONE FOOT ON CENTER IN THE ANCHOR TRENCH. BE SURE TO DRIVE STAPLES OR STAKES FLUSH WITH THE SOIL SURFACE. BACKFILL THE ANCHOR TRENCH AND COMPACT THE SOIL. PLACE SEED OVER THE COMPACTED SOIL. COVER THE COMPACTED SOIL WITH THE REMAINING 12 INCHES OF THE TERMINAL END OF THE EROSION CONTROL BLANKET. STAPLE OR STAKE TERMINAL END DOWN SLOPE OF THE ANCHOR TRENCH ON ONE FOOT CENTERS.
- STEP FIVE: EROSION CONTROL BLANKET DEPLOYMENT**
STARTING AT THE CREST OF THE SLOPE, ROLL THE EROSION CONTROL BLANKET DOWN THE SLOPE IN A CONTROLLED MANNER. APPROXIMATELY EVERY 20-25 FEET PULL THE EROSION CONTROL BLANKET TO TAKE OUT ANY EXCESS SLACK. THE GOAL IS TO HAVE THE EROSION CONTROL BLANKET CONTOUR AND INITIATE CONTACT WITH THE SOIL.
- STEP SIX: STAPLE OR STAKE THE EROSION CONTROL BLANKET**
SECURE THE OVERLAP OR THE EDGES WITH STAPLES. THE TYPICAL INSTALLATION WILL REQUIRE ONE STAPLE PLACED AT THREE TO FIVE FEET INTERVALS ALONG THE VERTICAL LENGTH OF THE EROSION CONTROL BLANKET. STAPLES SHOULD BE STAGGERED EVERY 18 TO 24 INCHES HORIZONTALLY ACROSS THE EROSION CONTROL BLANKET. IF THE EROSION CONTROL BLANKET NEEDS TO BE SPLICED IN THE MIDDLE OF A SLOPE BE SURE THE EROSION CONTROL BLANKET IS "SHINGLED" WITH UP-SLOPE EROSION CONTROL BLANKET OVERLAPPING THE DOWN-SLOPE EROSION CONTROL BLANKET. THERE SHOULD BE A MINIMUM OF 4-INCHES OF OVERLAP IN A SPLICE. USE A STAPLE CHECK SLOT TO SECURE THE OVERLAP. A STAPLE CHECK SLOT IS MADE BY PLACING A ROW OF STAPLES 4-INCHES ON CENTER AND THEN PLACING A SECOND ROW OF STAPLES 4-INCHES ON CENTER, STAGGERED FROM THE FIRST ROW.
- STEP SEVEN: SECURING THE EROSION CONTROL BLANKET AT THE TOE OF SLOPE**
ROLL THE EROSION CONTROL BLANKET 24-INCHES PAST THE TOE OF THE SLOPE. STAPLE OR STAKE TERMINAL END OF THE EROSION CONTROL BLANKET ON ONE FOOT CENTERS.



CATCH BASIN INLET PROTECTION
N.T.S.

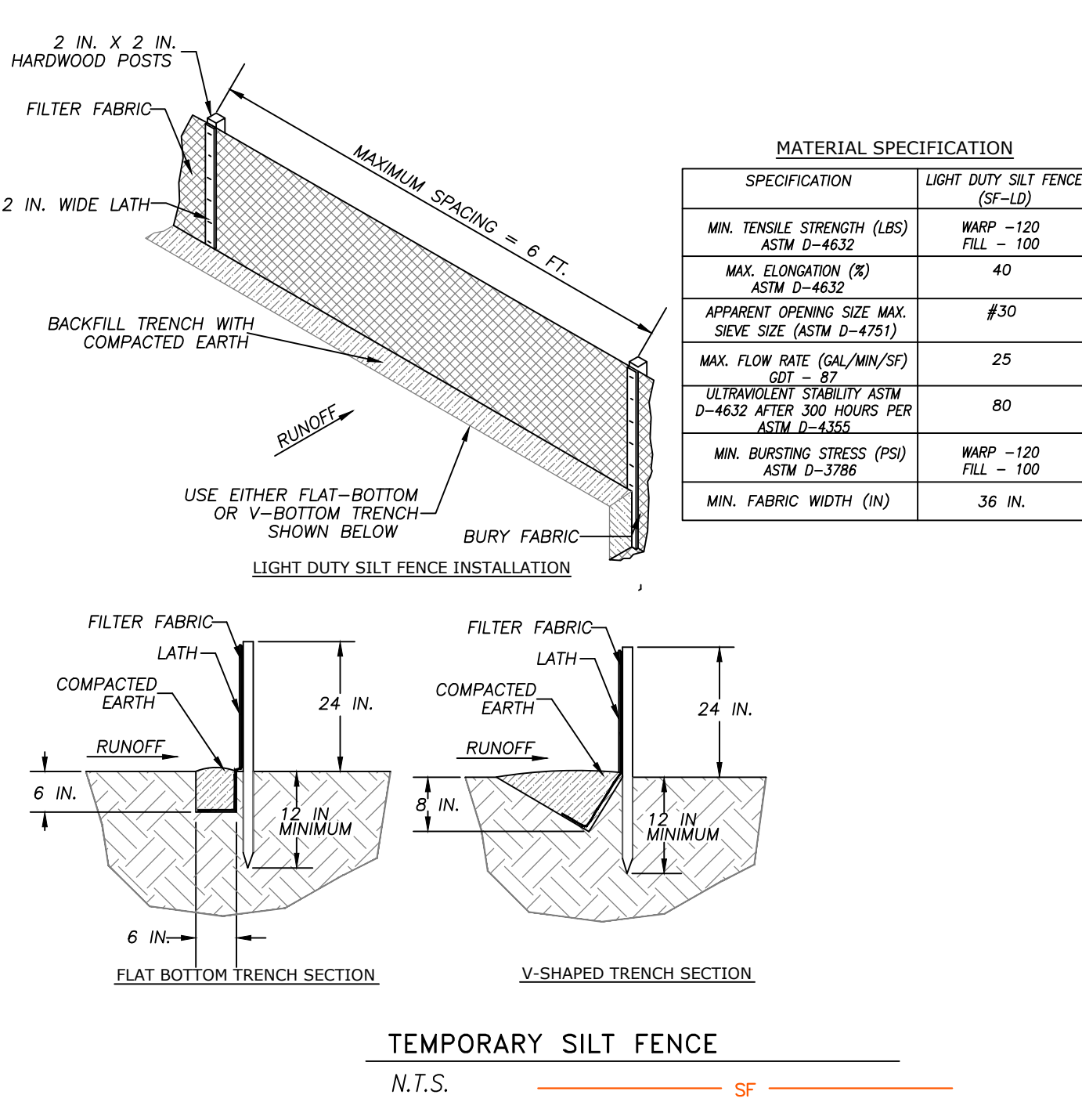
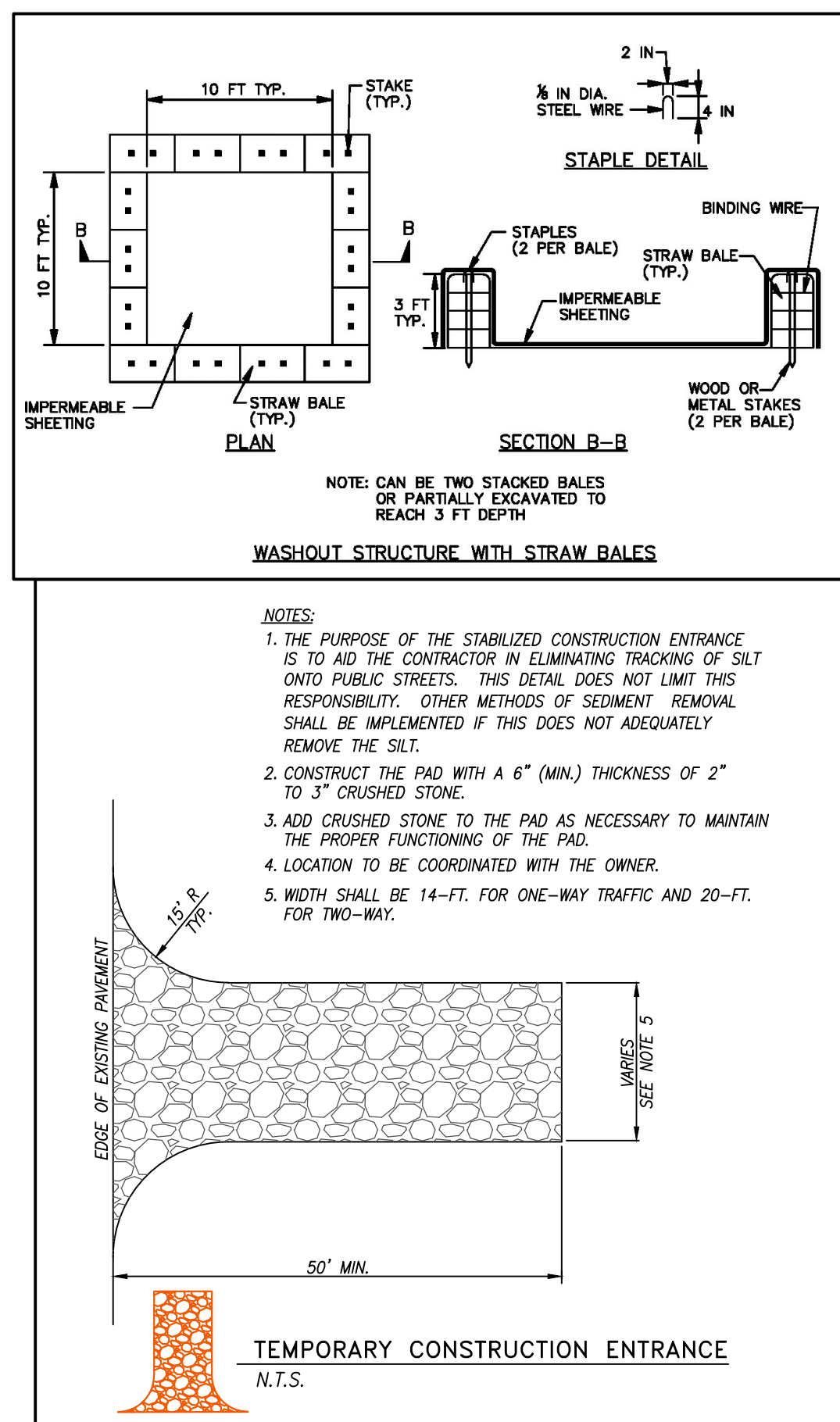
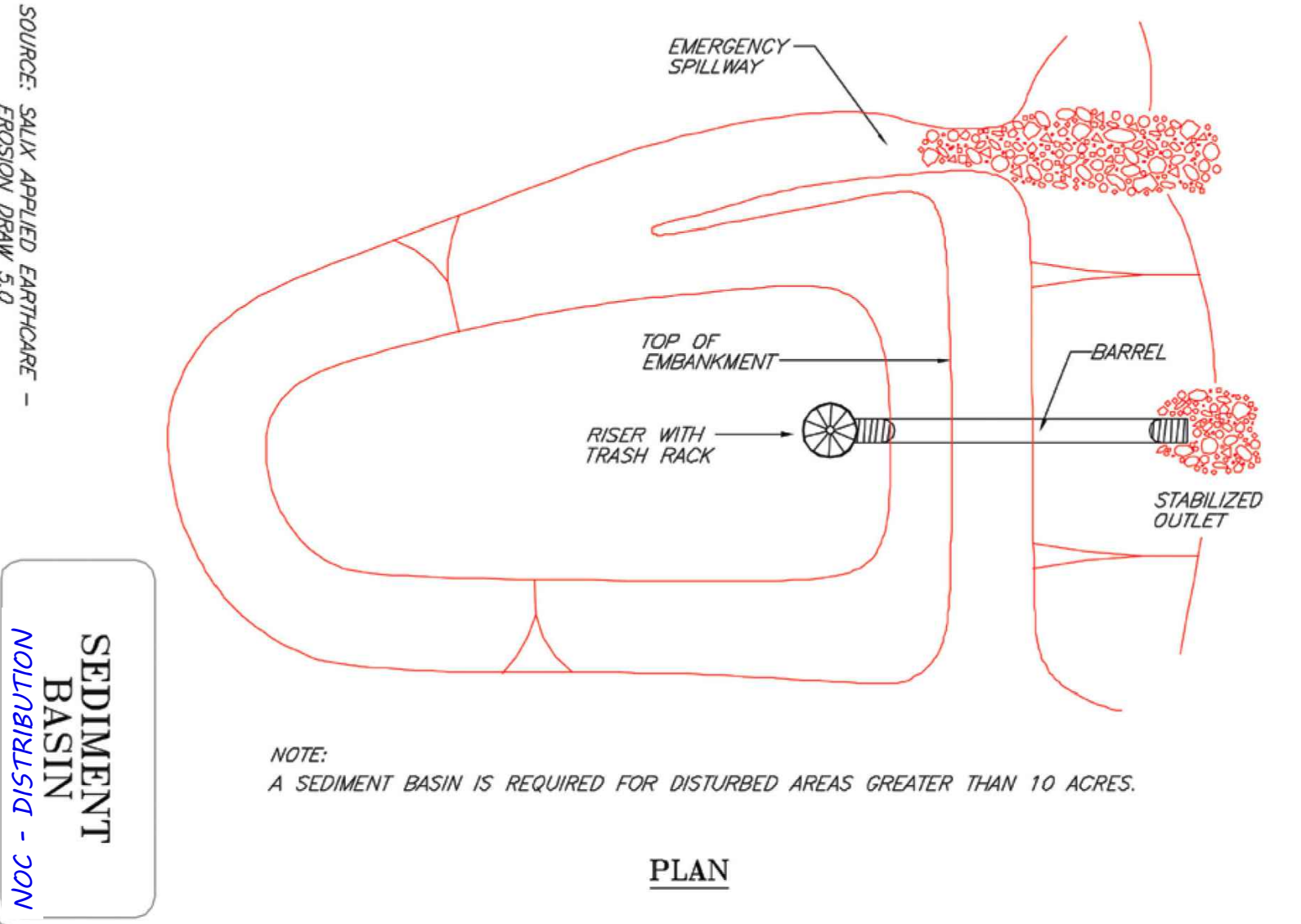
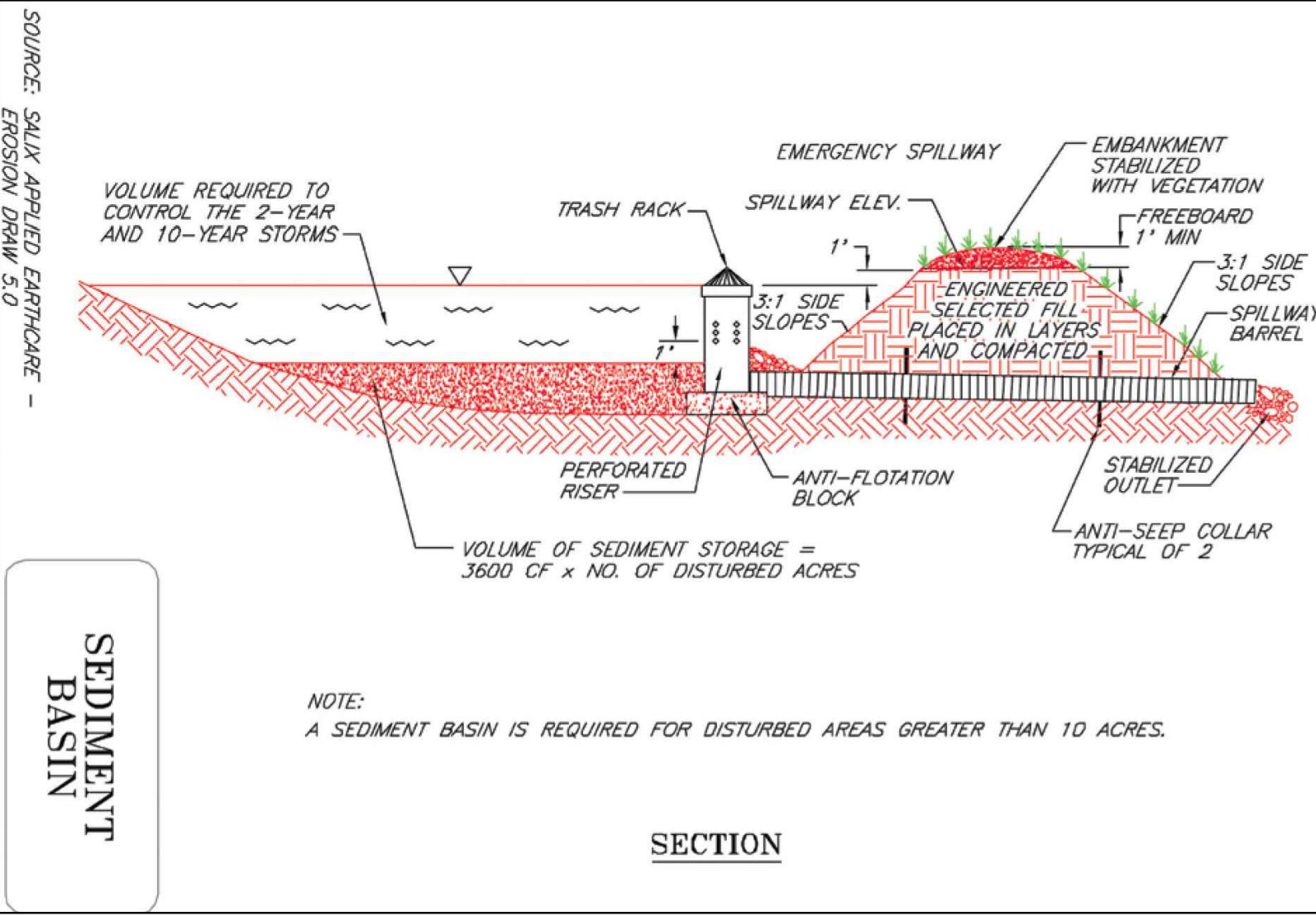


ROCK CHECK DAM
N.T.S.



CURB CUT PROTECTION
N.T.S.

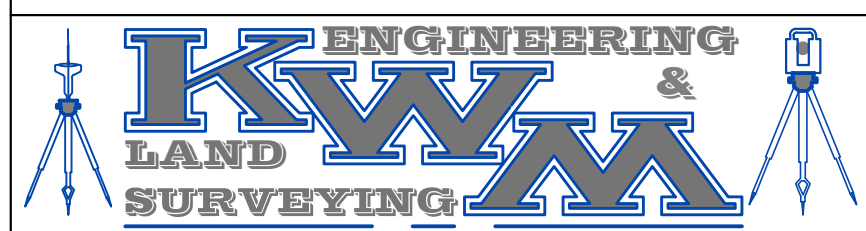
NOTE: FOR USE AFTER CURB IS INSTALLED. OR FILTER SOCK MAY BE USED.



MATERIAL SPECIFICATION	
SPECIFICATION	LIGHT DUTY SILT FENCE (SF-LD)
MIN. TENSILE STRENGTH (LBS) ASTM D-4632	WARP -120 FILL -100
MAX. ELONGATION (%) ASTM D-4632	40
APPARENT OPENING SIZE MAX. SIEVE SIZE (ASTM D-0751)	#30
MAX. FLOW RATE (GAL/MIN/SF) (Q97 - 87)	25
ULTRAVIOLENT STABILITY ASTM D-4632 AFTER 100 HOURS FOR ASTM D-4355	80
MIN. BURSTING STRESS (PSI) ASTM D-3786	WARP -120 FILL -100
MIN. FABRIC WIDTH (IN)	36 IN.



NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004



LEBANON OFFICE:
335 N. WOODLAWN AVE.
LEBANON, KY 40033

NATHAN ALLAN KING
P.E. #24283 P.L.S. #3831
BUSINESS: (270) 692-0089
MOBILE: (270) 590-4603
Nothan@mykwm.net

REVISIONS:	DATE:
BID SET	6-02-2025
NOT TO SCALE	DATE: 6-02-2025
SHEET:	
EROSION CONTROL DETAILS	C4.02

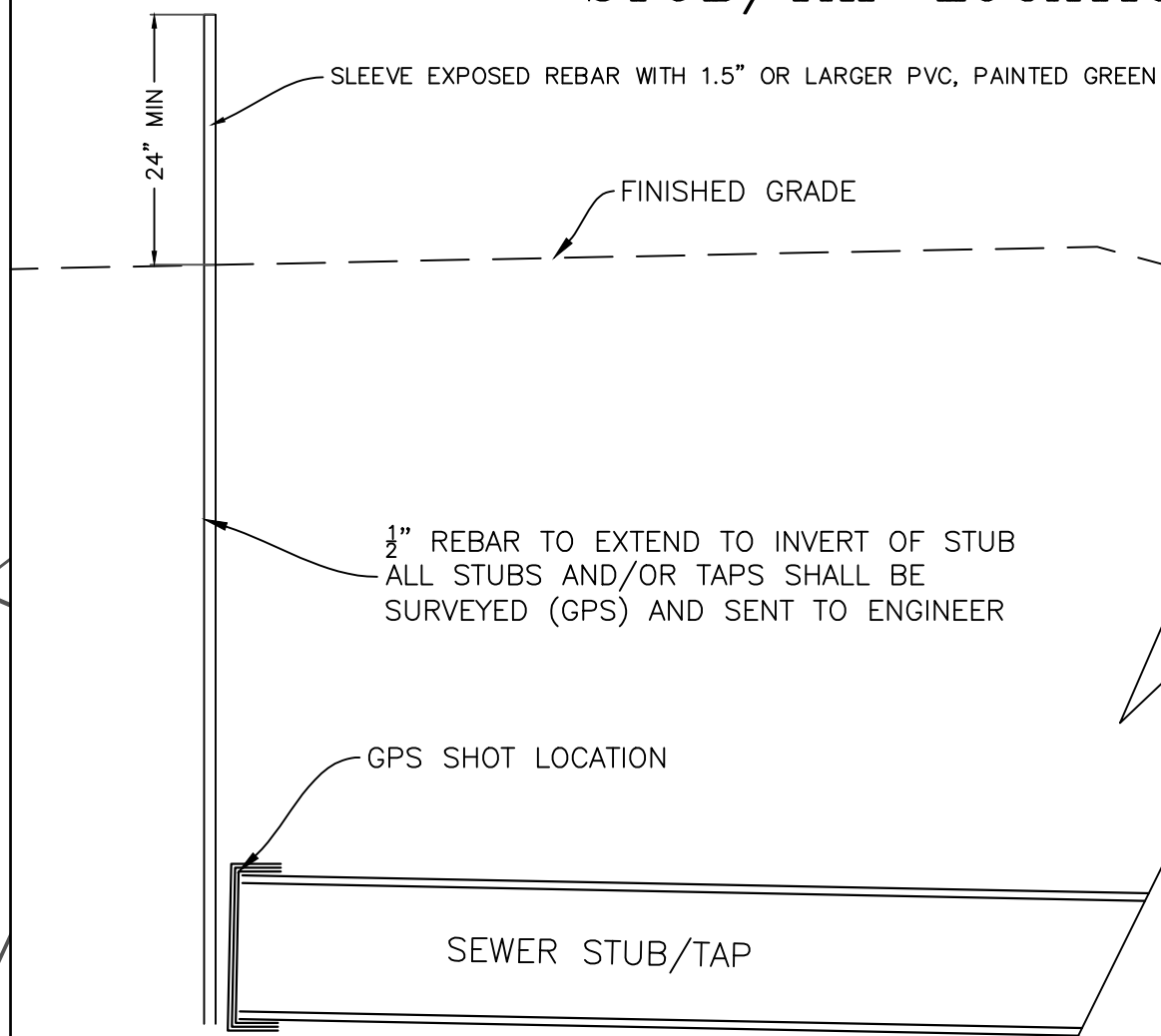
GENERAL UTILITY NOTES:

1. THE CONTRACTOR IS ADVISED THAT ALL EXISTING UTILITIES SHOWN WERE FIELD SURVEYED BASED ON LOCATIONS PROVIDED BY EACH UTILITY COMPANY. OTHER UTILITIES MAY EXIST THAT ARE UNMAPPED. THE CONTRACTOR IS ADVISED TO FIELD VERIFY ALL UNDERGROUND UTILITIES BY CONTACTING THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO EXCAVATION.
2. ALL UTILITIES TO BE CONSTRUCTED TO WITHIN 5' OF BUILDING.
3. CONTRACTORS ARE ADVISED TO COORDINATE INSTALLATION OF ALL BURIED CONDUITS AND LINES SUCH THAT LINES WHICH CROSS ARE LAID BEGINNING WITH DEEPEST LINE FIRST.
4. DEPTH OF WATERLINE SHALL BE ADJUSTED AS REQUIRED TO ALLOW FOR SPECIFIED PLACEMENT OF SANITARY AND STORM SEWERS, BUT IN NO CASE LESS THAN 36 INCHES.
5. TAPPING AND INSPECTION FEES TO BE PAID BY CONTRACTOR, METER FEES TO BE PAID BY OWNER.
6. CONTRACTOR SHALL COORDINATE WATER AND SEWER SERVICES CONSTRUCTION WITH THE APPROPRIATE LOCAL UTILITY COMPANY. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
7. ALL TRENCHING, PIPE LAYING AND BACK FILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
8. CONTRACTOR SHALL OBTAIN APPROVAL FROM ALL GOVERNING AGENCIES HAVING JURISDICTION OF UTILITY SYSTEMS PRIOR TO INSTALLATION.
9. ALL GATE VALVES SHALL BE PROVIDED WITH VALVE BOX IN ACCORDANCE WITH WATER UTILITY STANDARDS. MAIN WATER VALVES ONLY TO BE OPERATED BY LOCAL UTILITY COMPANY PERSONNEL.
10. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES AND FIRE HYDRANTS AND SHALL BE CONSTRUCTED ACCORDING TO WATER DEPARTMENT STANDARDS.
11. ALL WATER AND SANITARY SEWER SERVICE LINES TO THE BUILDING(S) SHALL BE PROVIDED WITH A TEMPORARY PLUG (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY). COORDINATE ALL TESTING AND INSPECTION WITH THE LOCAL UTILITY COMPANY.
12. THE CONTRACTOR SHALL FLUSH AND TEST ALL NEW UTILITY LINES ACCORDING TO THE LOCAL UTILITY COMPANY STANDARDS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND ELEVATIONS OF EXISTING AND PROPOSED UTILITIES PRIOR TO CONSTRUCTION. ANY CONFLICTS DISCOVERED AFTER CONSTRUCTION HAS BEGUN SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
14. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES IS TEN FEET OUTSIDE DIAMETER TO OUTSIDE DIAMETER. THE MINIMUM VERTICAL SEPARATION IS EIGHTEEN INCHES.
15. BEFORE YOU DIG, CONTRACTOR SHALL NOTIFY 811 (AND ALL NON PARTICIPATING UTILITY COMPANIES) AT LEAST 72 HOURS PRIOR TO EXCAVATION, TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WITHIN THE PROPOSED SITE.
16. CONTRACTOR SHALL VERIFY LOCATIONS THAT UTILITIES ENTER THE BUILDING FROM THE ARCHITECTURAL PLANS PRIOR TO INSTALLING UTILITY SERVICE LINE.
17. ALL WATER LINE INSTALLATION SHALL MEET THE SPECIFICATION OF THE LOCAL WATER COMPANY. THRUST BLOCKS SHALL BE REQUIRED AT ALL HORIZONTAL & VERTICAL BENDS, TEES, AND AS REQ'D BY THE LOCAL WATER COMPANY. PERMITTING, TESTING, & INSPECTION SHALL BE PERFORMED AS REQUIRED BY LOCAL AND/OR STATE AGENCIES.

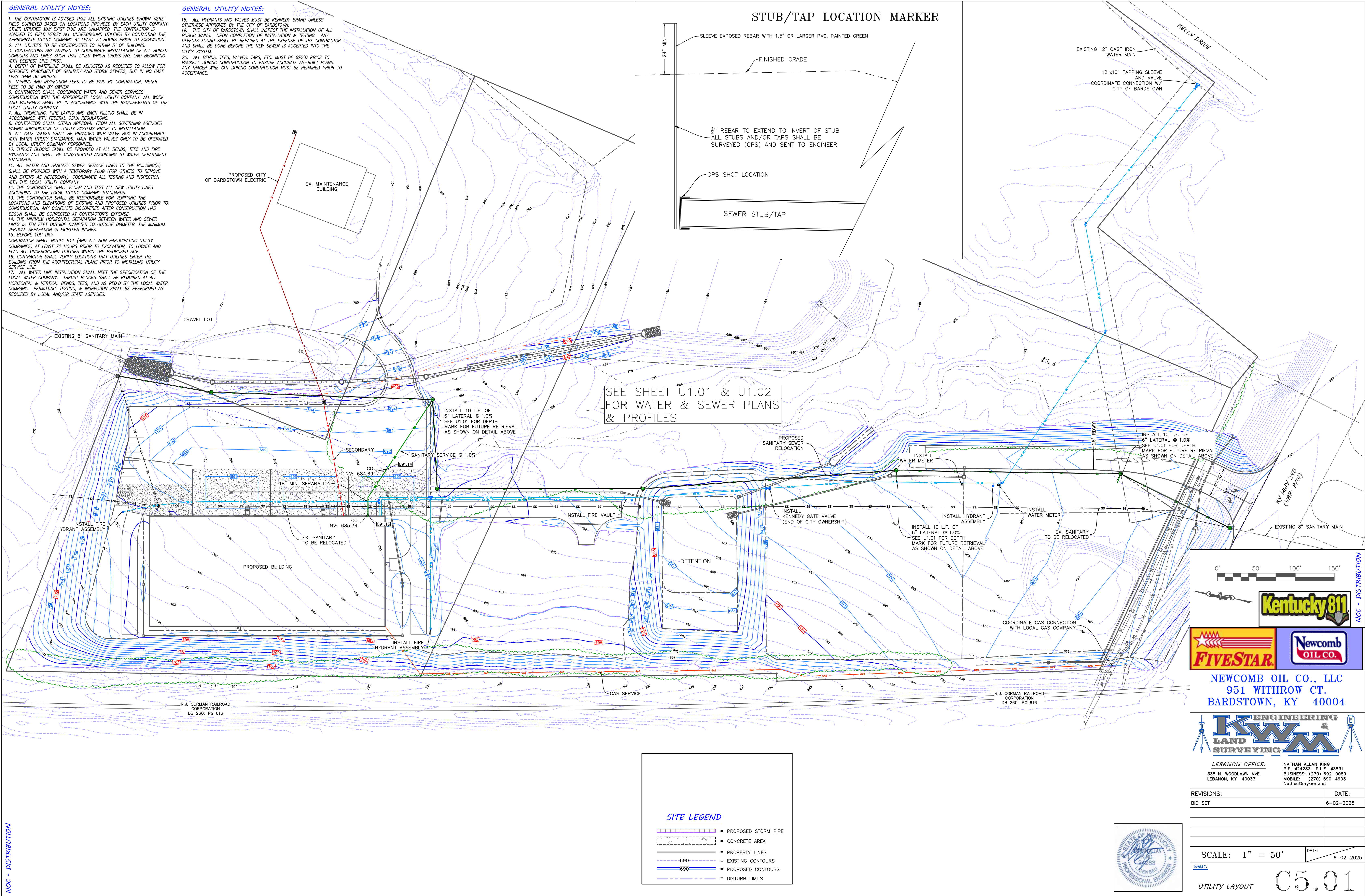
GENERAL UTILITY NOTES:

18. ALL HYDRANTS AND VALVES MUST BE KENNEDY BRAND UNLESS OTHERWISE APPROVED BY THE CITY OF BARDSTOWN.
19. THE CITY OF BARDSTOWN SHALL INSPECT THE INSTALLATION OF ALL PUBLIC MAINS. UPON COMPLETION OF INSTALLATION & TESTING, ANY DEFECTS FOUND SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE DONE BEFORE THE NEW SEWER IS ACCEPTED INTO THE CITY'S SYSTEM.
20. ALL BENDS, TEES, VALVES, TAPS, ETC. MUST BE GPS'D PRIOR TO BACKFILL DURING CONSTRUCTION TO ENSURE ACCURATE AS-BUILT PLANS. ANY TRACER WIRE CUT DURING CONSTRUCTION MUST BE REPAIRED PRIOR TO ACCEPTANCE.

STUB/TAP LOCATION MARKER



SEE SHEET U1.01 & U1.02
FOR WATER & SEWER PLANS
& PROFILES



SITE LEGEND

- PROPOSED STORM PIPE
- CONCRETE AREA
- PROPERTY LINES
- EXISTING CONTOURS
- PROPOSED CONTOURS
- DISTURB LIMITS

0' 50' 100' 150'



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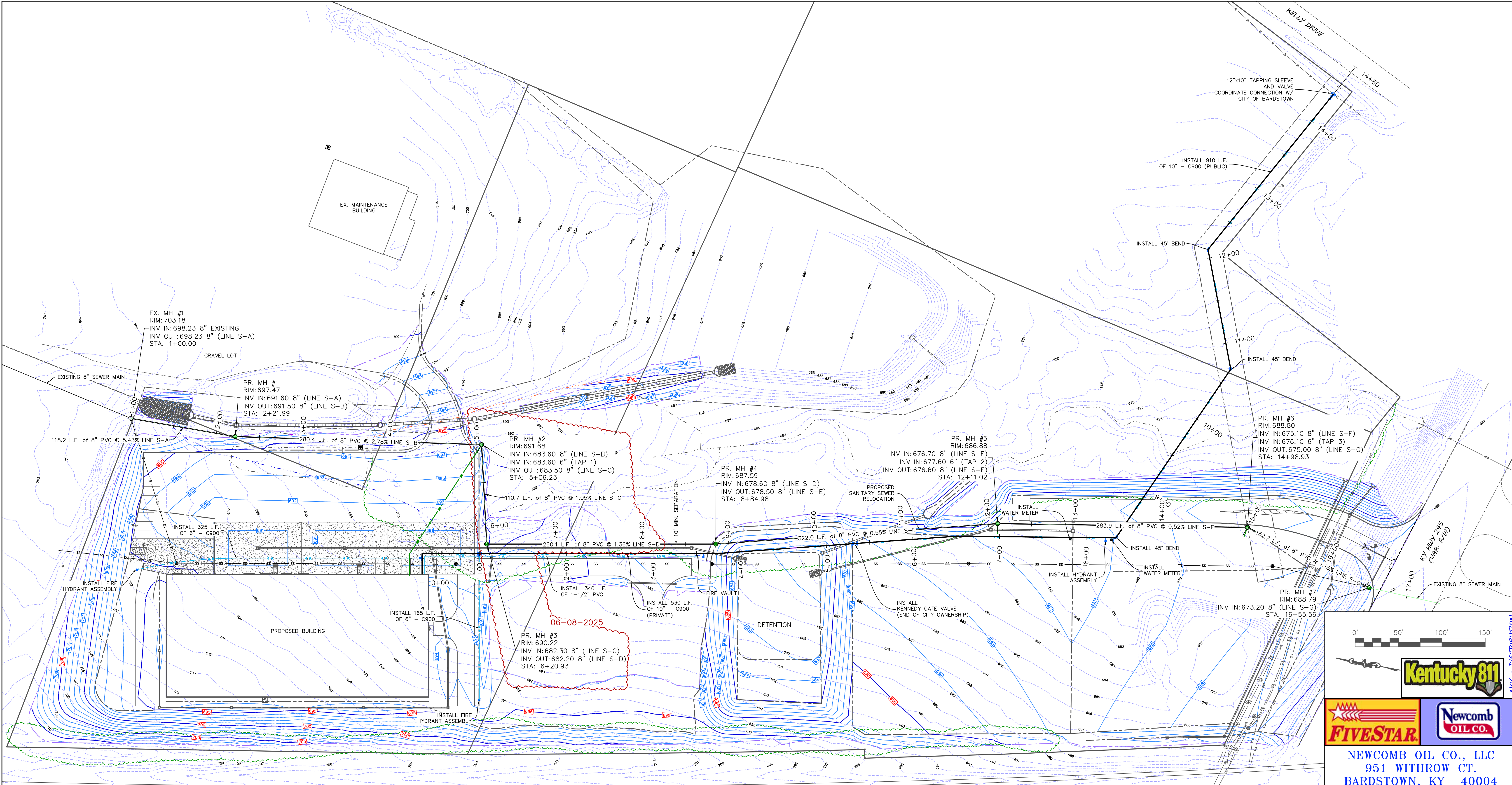
SCALE: 1" = 50'

DATE:
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SHEET:

UTILITY LAYOUT

C5.01



SITE LEGEND

- = LIGHT POLES/SECURITY LIGHT
- BM = BENCHMARK
- +690.00 = PROPOSED GRADE SPOT SHOT
- +690.00E = INDICATES TOP OF CURB/SIDEWALK
- +690.00 = EXISTING GRADE SPOT SHOT
- = PROPOSED STORM PIPE
- = CONCRETE AREA
- = PROPERTY LINES
- = EXISTING CONTOURS
- = PROPOSED CONTOURS
- = DISTURB LIMITS

0' 50' 100' 150'

Kentucky 811

NOC - DISTRIBUTION

FIVESTAR

Newcomb OIL CO.

NEWCOMB OIL CO., LLC
951 WITHROW CT.
BARDSTOWN, KY 40004

KWM
LAND SURVEYING & ENGINEERING

LEBANON OFFICE:
335 N. WOODLAWN AVE.
LEBANON, KY 40033

NATHAN ALLAN KING
P.E. #24283 P.L.S. #3831
BUSINESS: (270) 692-0089
MOBILE: (270) 590-4603
Nathan@njkwm.net

REVISIONS:	DATE:
BID SET	6-02-2025
REVISED SANITARY SEWER	6-08-2025

SCALE: 1" = 50'

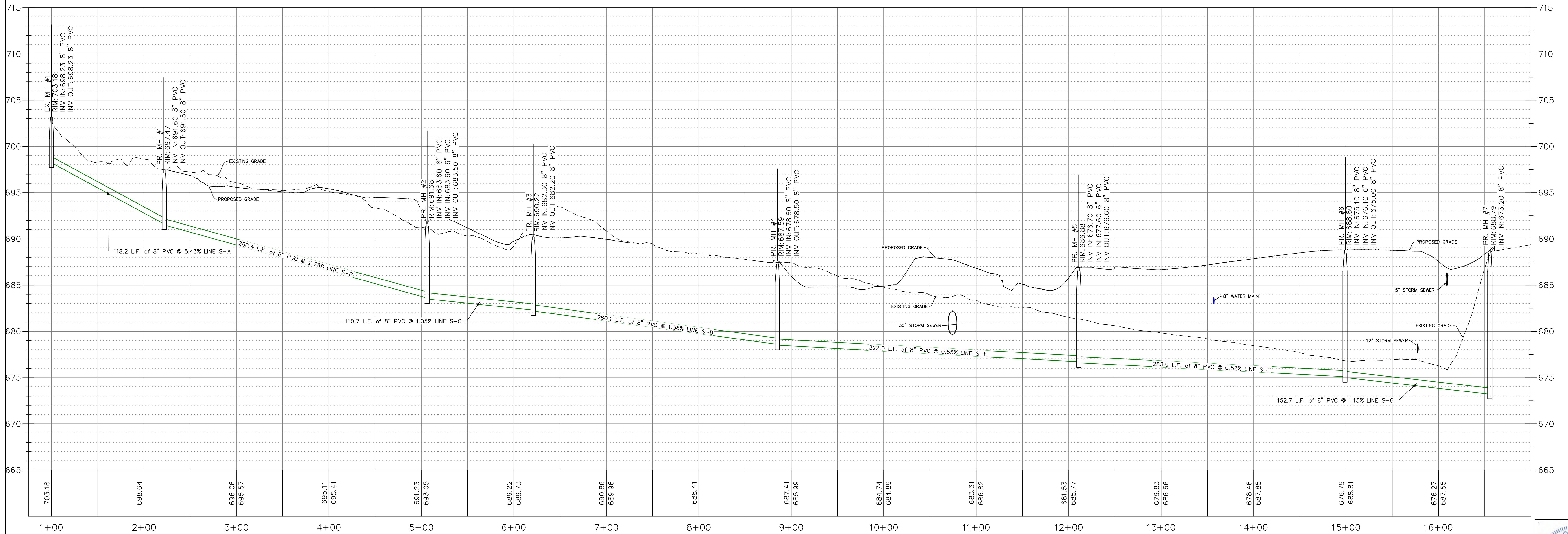
SHEET: U1.01

WATER & SEWER PLAN

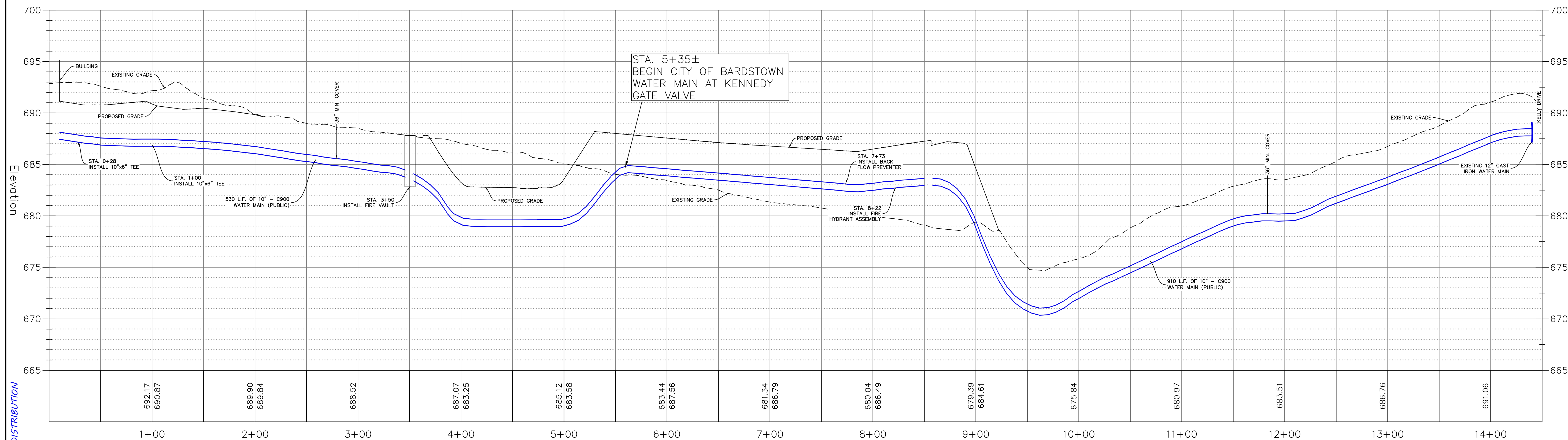


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PROFILE – Sanitary Sewer Relocation



PROFILE – Water Main



0' 50' 100' 150'

Kentucky 811

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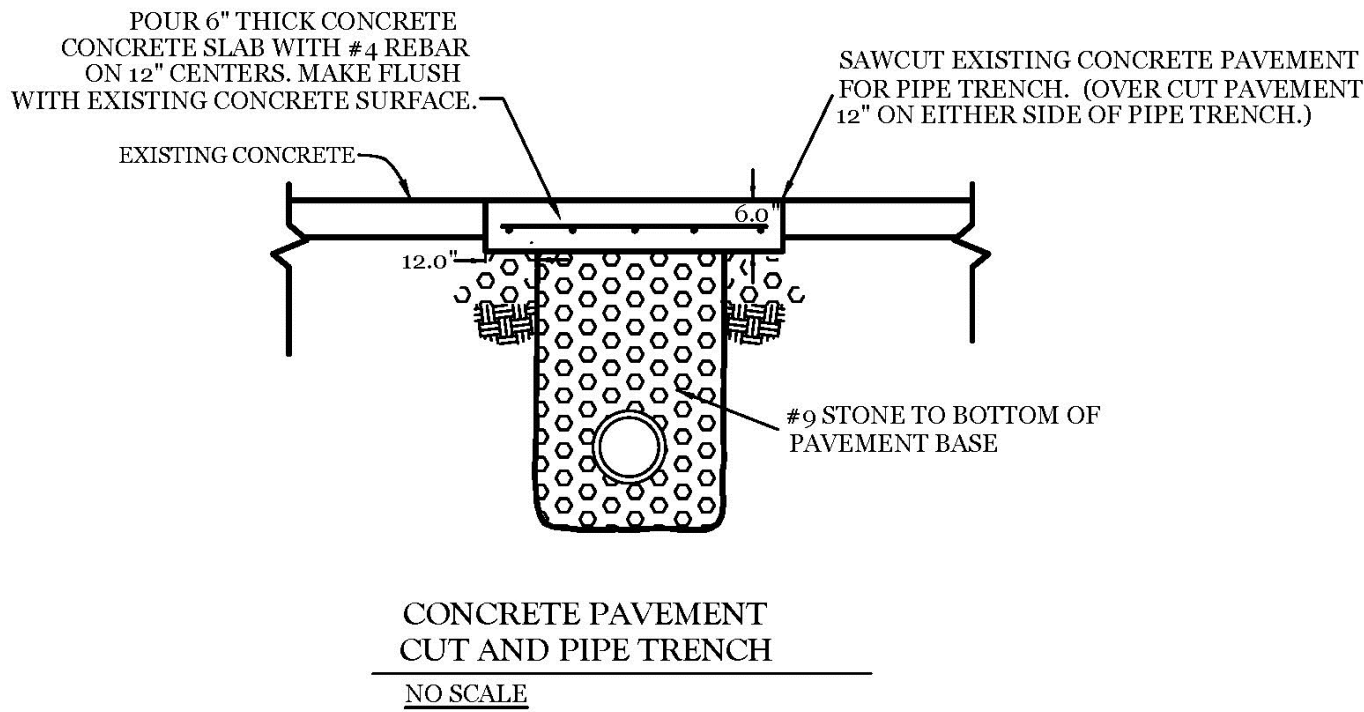
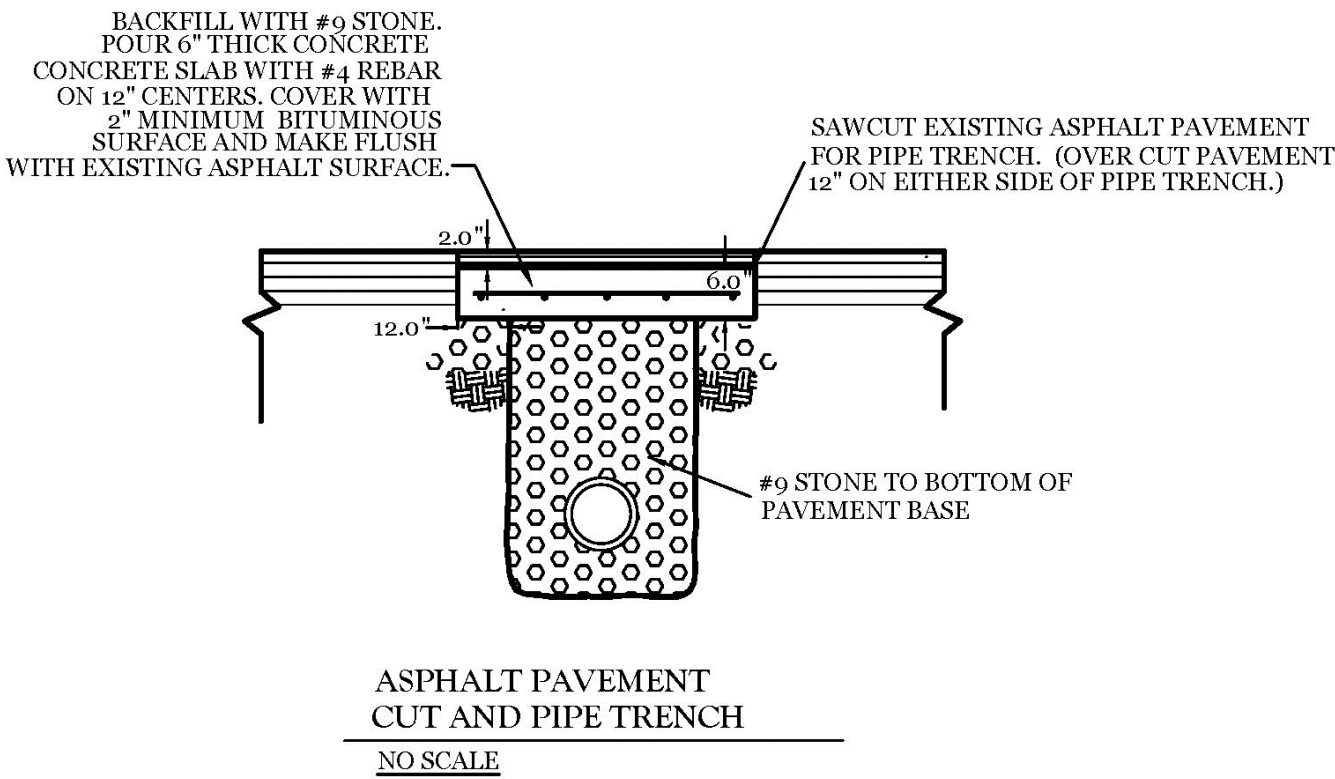
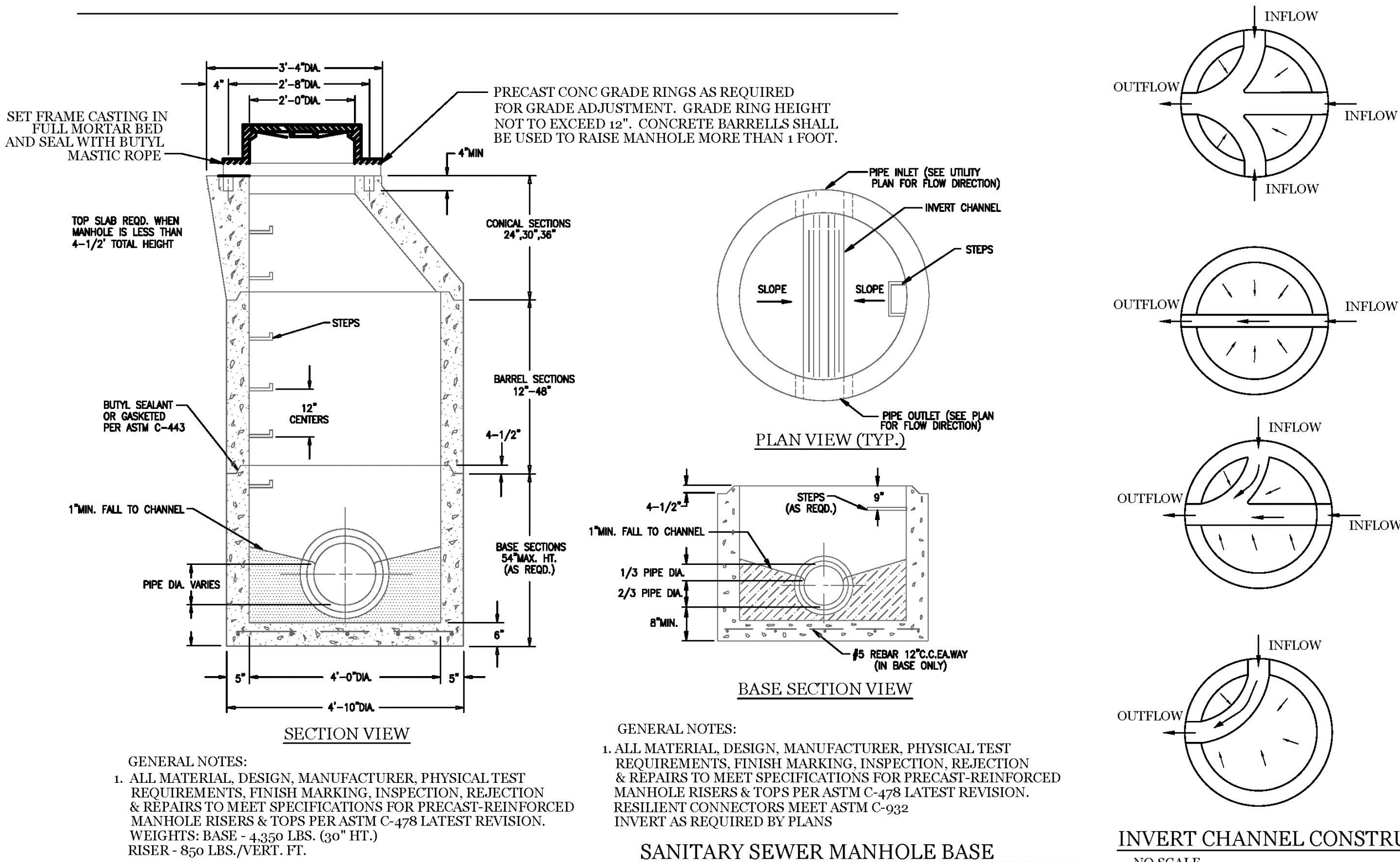
SCALE: 1" = 50'

DATE: 6-02-2025

SHEET: WATER & SEWER PROFILES

U1.02

SANITARY SEWER DETAILS



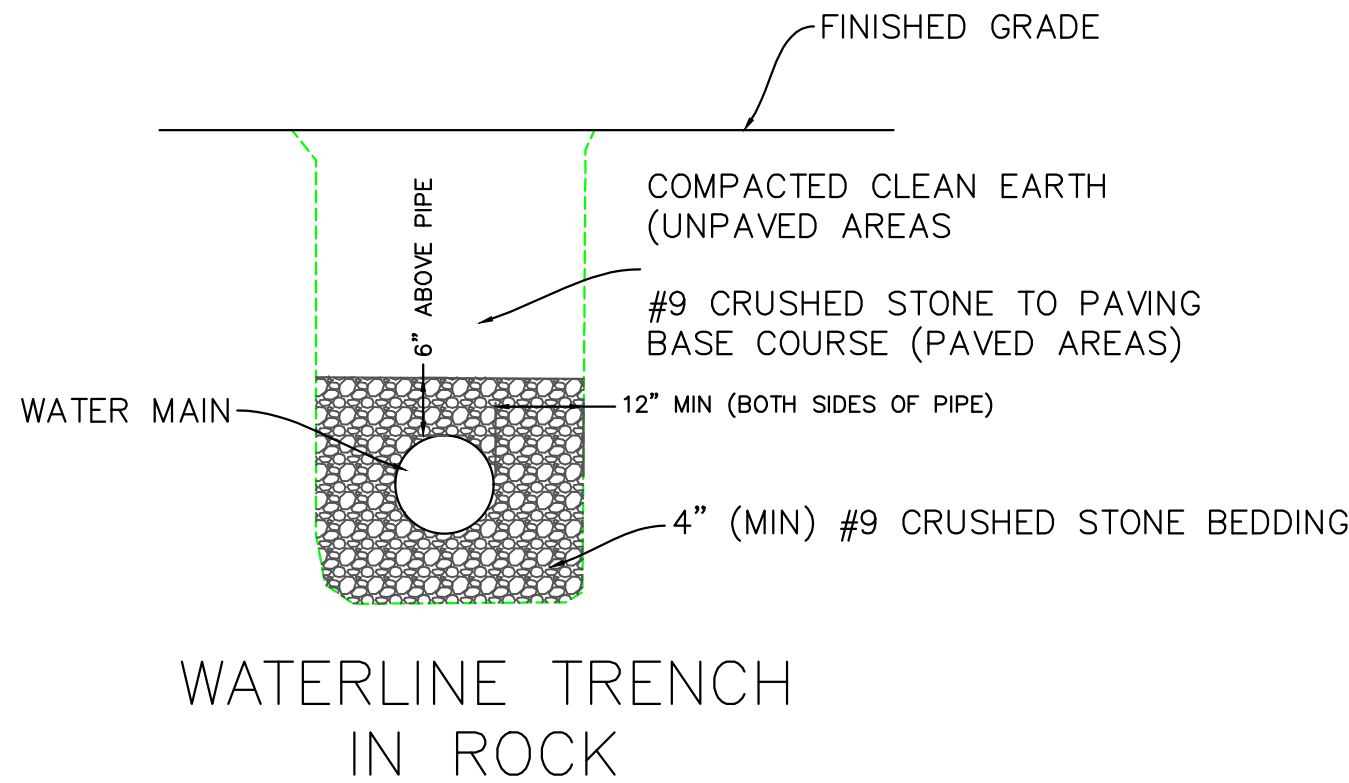
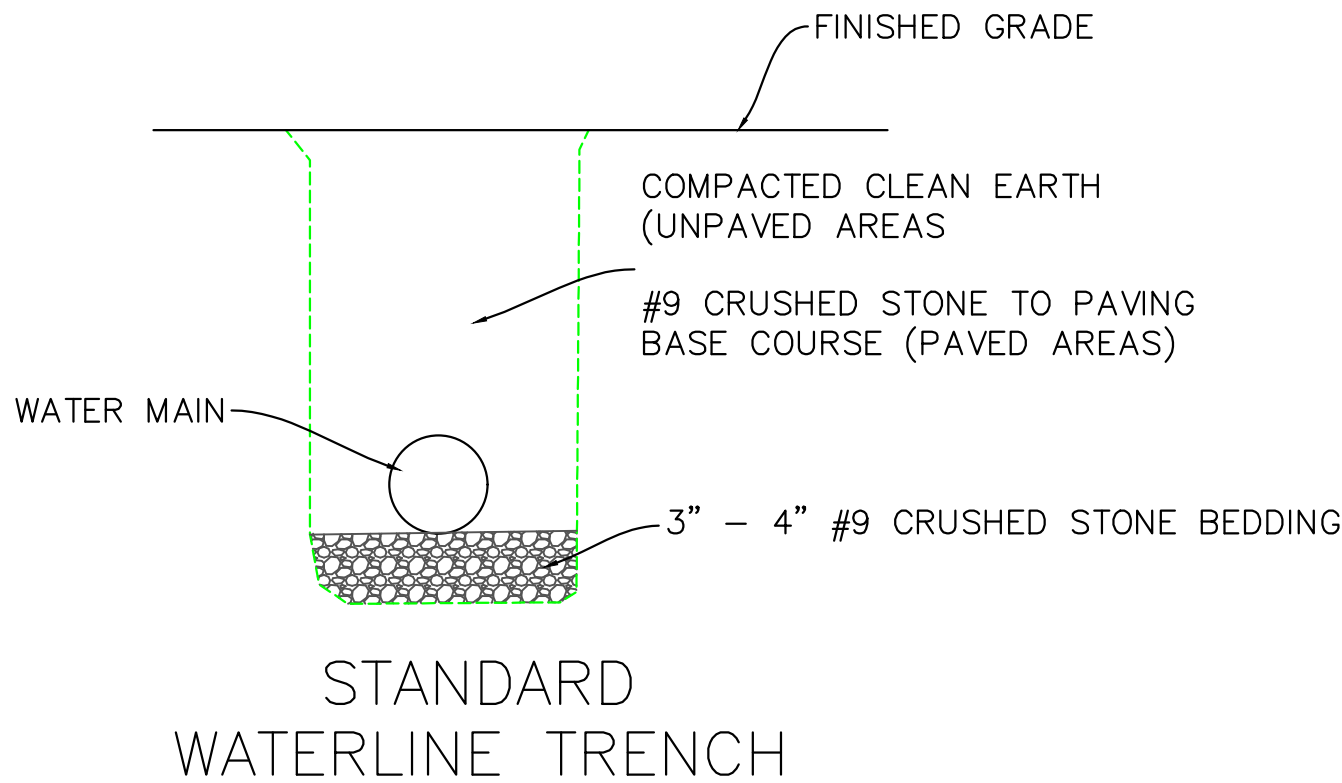
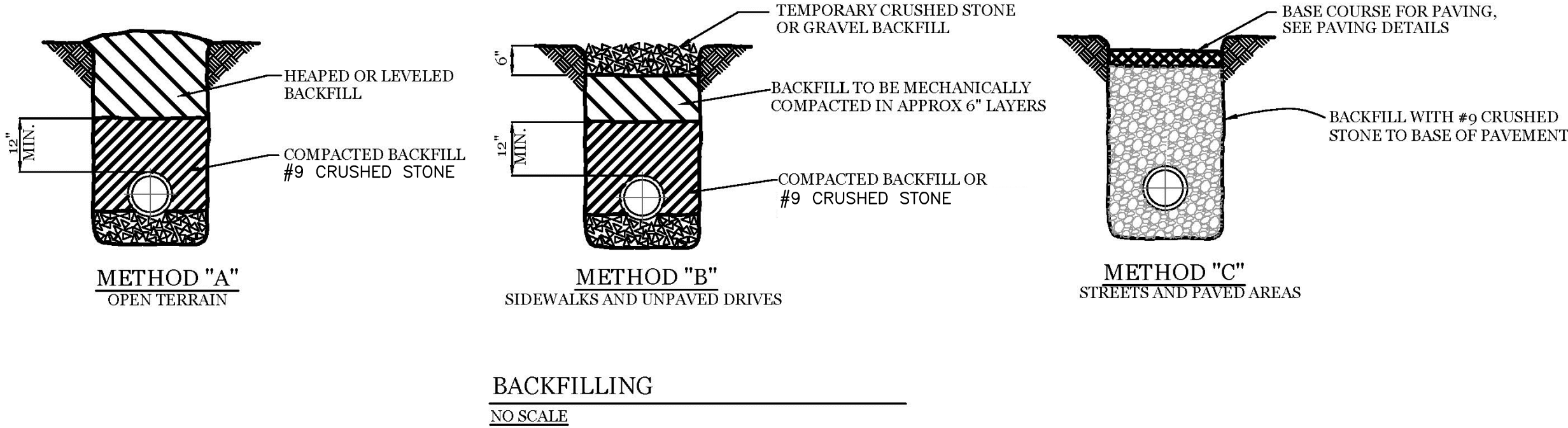
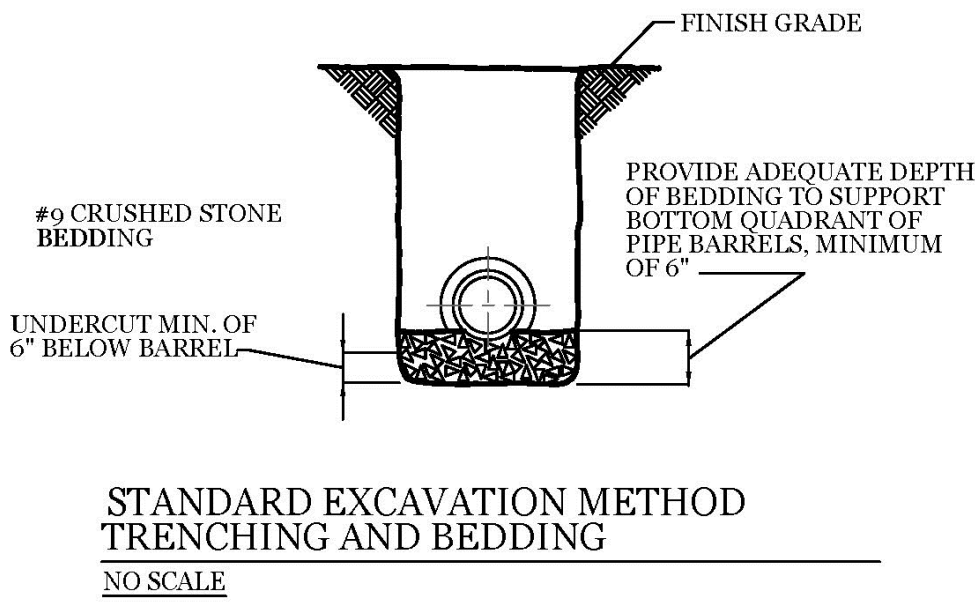
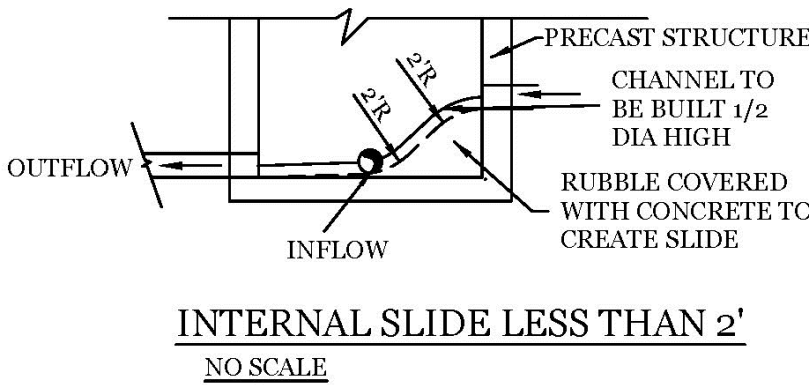
- GRAVITY SEWER MAIN NOTES**
1. PROPOSED SEWER MAIN SHALL BE CONSTRUCTED WITH SDR₃₅ PVC SEWER PIPE, CONFORMING TO ASTM D3034. JOINTS SHALL BE INTEGRAL WALL BELL AND SPIGOT JOINTS CONFORMING TO ASTM D3212.
 2. ALL MANHOLES SHALL BE 4" DIA. PRECAST CONCRETE PER ASTM C478 WITH DEVELOPED BASES. ALL MANHOLES SHALL BE SUPPLIED WITH A 24" DIA. WEIGHTED LID (350 LB. MIN.), STAMPED WITH "SANITARY SEWER". ALL OPENINGS SHALL BE WATER-TIGHT WITH NEOPRENE OR CAST-IN GASKETS PER ASTM C923. MANHOLE JOINTS SHALL BE WATER-TIGHT WITH TWO STRIPS OF BUTYL MASTIC SEALANT OR RUBBER GASKET. GRADE RINGS MAY BE PROVIDED TO ALLOW FOR GRADE ADJUSTMENT. GRADE RINGS SHALL BE MORTARED AND SEALED WITH BUTYL MASTIC SEALANT. MAXIMUM GRADE RING HEIGHT SHALL BE 12".
 3. VACUUM TESTING SHALL BE PERFORMED ON ALL NEW AND MODIFIED SANITARY MANHOLES AS PER ASTM C1244 AND IN ACCORDANCE WITH CITY OF BARDSTOWN SPECIFICATIONS FOR SANITARY SEWER LINES. VACUUM TESTING SHALL BE PERFORMED AFTER MANHOLES HAVE BEEN BACKFILLED, ALL CONNECTIONS ARE IN PLACE, AND AFTER ALL ADJACENT UNDERGROUND UTILITIES HAVE BEEN INSTALLED. THIS TEST SHALL INCLUDE TESTING OF THE SEAL BETWEEN THE MANHOLE CASTING FRAME, AND CONCRETE SLAB, CONE OR GRADE RINGS.
 4. ALL SEWER PIPE SHALL BE BEDDED 6" MINIMUM WITH #9 STONE AND PROVIDED WITH 6" #9 STONE BACKFILL OVER PIPE. SEWER MAIN BENEATH PAVEMENT SHALL BE BACKFILLED WITH FLOWABLE FILL TO BASE OF PAVEMENT SECTION. BACKFILL WITHIN 2' OF THE TOP OF THE SEWER PIPE SHALL BE FREE FROM DEBRIS, FROZEN MATERIAL AND LARGE CLODS OR STONES.
 5. SEWER MAINS AND SERVICES SHALL MAINTAIN A HORIZONTAL CLEARANCE OF 10' AND A VERTICAL CLEARANCE OF 18" FROM POTABLE WATER MAINS. SEWERS CROSSING WATER MAINS SHALL BE 18" MINIMUM VERTICAL DISTANCE OR A CONCRETE CAP SHALL BE PROVIDED BETWEEN THEM. SEWER SERVICES SHALL FOLLOW ALL PLUMBING CODE REQUIREMENTS.
 6. SEWER MAINS SHALL BE PROVIDED WITH 30" MINIMUM COVER OR DUCTILE IRON, CEMENT-LINED PIPE CONFORMING TO ANSI A21.51 SHALL BE USED IN AREAS WHERE APPROPRIATE COVER CANNOT BE OBTAINED. SEWERS CROSSING STREAMS SHALL BE PLACED AT THE NATURAL BOTTOM OF THE STREAM BED. MINIMUM COVER OF SEWER MAIN CROSSING STREAMS SHALL BE ONE FOOT WHERE THE SEWER IS LOCATED IN ROCK AND THREE FEET FOR OTHER MATERIALS.
 7. INSPECTION AND TESTING SHALL BE PERFORMED ON ALL SEWER MAINS IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. AT A MINIMUM, ALL SEWER MAINS SHALL BE SUBJECT TO DEFLECTION AND AIR TESTING. THE CITY OF BARDSTOWN SHALL WITNESS ALL SEWER TAPS AND MAIN TESTING. CONTACT CITY OF BARDSTOWN AND DESIGN ENGINEER PRIOR TO FINAL TESTING.
 8. END OF EACH SERVICE CONNECTION SHALL BE CAPPED. EXTEND ALL SERVICES TO EDGE OF UTILITY EASEMENT AND ENSURE SERVICES EXTEND PAST ALL EXISTING AND PROPOSED UTILITIES TO ALLOW FOR EASE OF FUTURE CONNECTION. SERVICES SHALL BE MARKED WITH REBAR FROM INVERT OF CONNECTION TO 2' ABOVE GRADE. REBAR ABOVE GROUND SHALL BE MARKED WITH SLEEVED IN 1/4" OR LARGER PVC PIPE AND PAINTED GREEN. ALL SERVICE CONNECTIONS INTO THE SEWER MAIN SHALL BE WATER-TIGHT AND NOT PROTRUDE INTO THE SEWER.
 9. PROVIDE TWO (2) SETS OF AS-BUILT PLANS TO THE CITY OF BARDSTOWN UPON COMPLETION AND A DIGITAL COPY OF AS-BUILTS WITH COORDINATES FOR SERVICE LOCATIONS.
 10. ANY LOTS THAT REQUIRE FILL WILL ALSO REQUIRE THAT ALL MANHOLES ARE EXTENDED TO FINISHED GRADE. ALL MANHOLES SHALL BE KEPT WATER TIGHT AND SHALL BE ACCESSIBLE FROM FINISHED GROUND LINE.
 11. FOR SERVICES EXTENDING BENEATH STREETS, PROVIDE CLEAN-OUT AT PROPERTY LINE. SERVICES AT MANHOLES SHALL ENTER MANHOLE WITH THE TOP OF SERVICE ELEVATION LINED UP WITH THE TOP ELEVATION OF THE SEWER MAIN. PROVIDE A FORMED CHANNEL WITHIN MANHOLE PER DETAILS ON THIS SHEET.

- GENERAL MANHOLE NOTES**
1. A MINIMUM FALL OF 0.10' SHALL BE PROVIDED THROUGH THE MANHOLES.
 2. ALL FLOORS OF MANHOLES MUST HAVE SMOOTH FLOAT BRUSH FINISH
 3. WHENEVER POSSIBLE THE ECCENTRIC CONE SHALL BE PLACED PERPENDICULAR TO THE LINE OF THE SEWER TO MINIMIZE FUTURE MEASUREMENT ERRORS ALONG THE SEWER LINE.
 4. ALL VISIBLE LEAKS IN MANHOLES OBSERVED DURING CONSTRUCTION OR INSPECTION SHALL BE CORRECTED EVEN THOUGH INFILTRATION REQUIREMENTS HAVE ALREADY BEEN MET.
 5. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- VACUUM TESTING**
- * FOR TESTING PROCEDURES REFER TO THE CITY OF BARDSTOWN'S MODIFICATIONS OF SPECIFICATIONS FOR SEWER LINE INSTALLATIONS, DATED SEPTEMBER 12, 2008.
 - * THE MANHOLE SHALL BE CONSIDERED TO PASS THE VACUUM TEST IF THE VACUUM READING DOES NOT DROP MORE THAN 1" Hg (FROM 10" OF Hg TO 9" Hg) DURING THE BELOW MINIMUM TEST TIMES.

MH DEPTH	4" DIAMETER MH	5" DIAMETER MH	6" DIAMETER MH
15' FEET OR LESS	50 SEC.	1 MIN. 5 SEC.	1 MIN. 20 SEC.
15.01 FEET TO 30 FEET	1 MIN. 20 SEC.	1 MIN. 45 SEC.	2 MIN. 10 SEC.

* IF A MANHOLE DOESN'T PASS, IT SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF BARDSTOWN SPECIFICATIONS AND THE TEST SHALL BE REPEATED UNTILL THE MANHOLE PASSES THE TEST.



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REVISIONS:	DATE:
BID SET	6-02-2025

SCALE: N/A

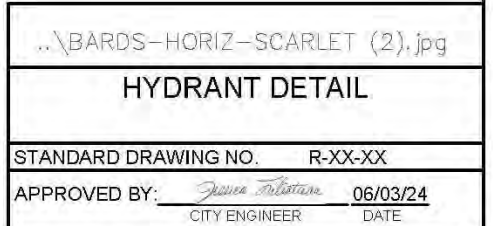
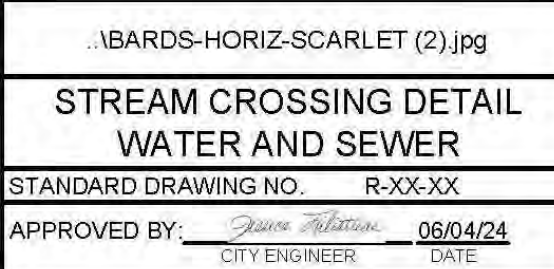
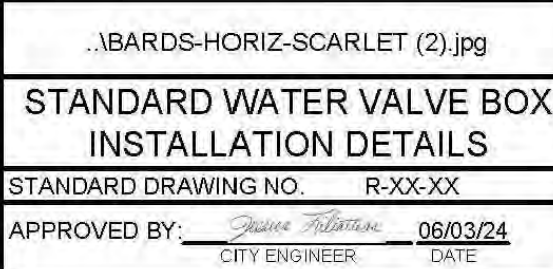
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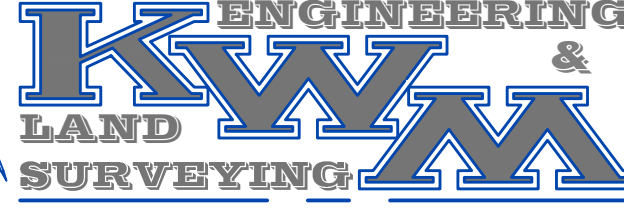
SHEET: STANDARD WATER & SEWER DETAILS & NOTES

U1.03

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<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <u>LEBANON OFFICE:</u> 335 N. WOODLAWN AVE. LEBANON, KY 40033 </td> <td style="width: 50%; vertical-align: top;"> NATHAN ALLAN KING P.E. #24283 P.L.S. #3831 BUSINESS: (270) 592-0089 MOBILE: (270) 590-4603 Nathan@mykwn.net </td> </tr> </table>			<u>LEBANON OFFICE:</u> 335 N. WOODLAWN AVE. LEBANON, KY 40033	NATHAN ALLAN KING P.E. #24283 P.L.S. #3831 BUSINESS: (270) 592-0089 MOBILE: (270) 590-4603 Nathan@mykwn.net
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<u>SHEET:</u>				
STANDARD WATER DETAILS & NOTES				
U 1.04				