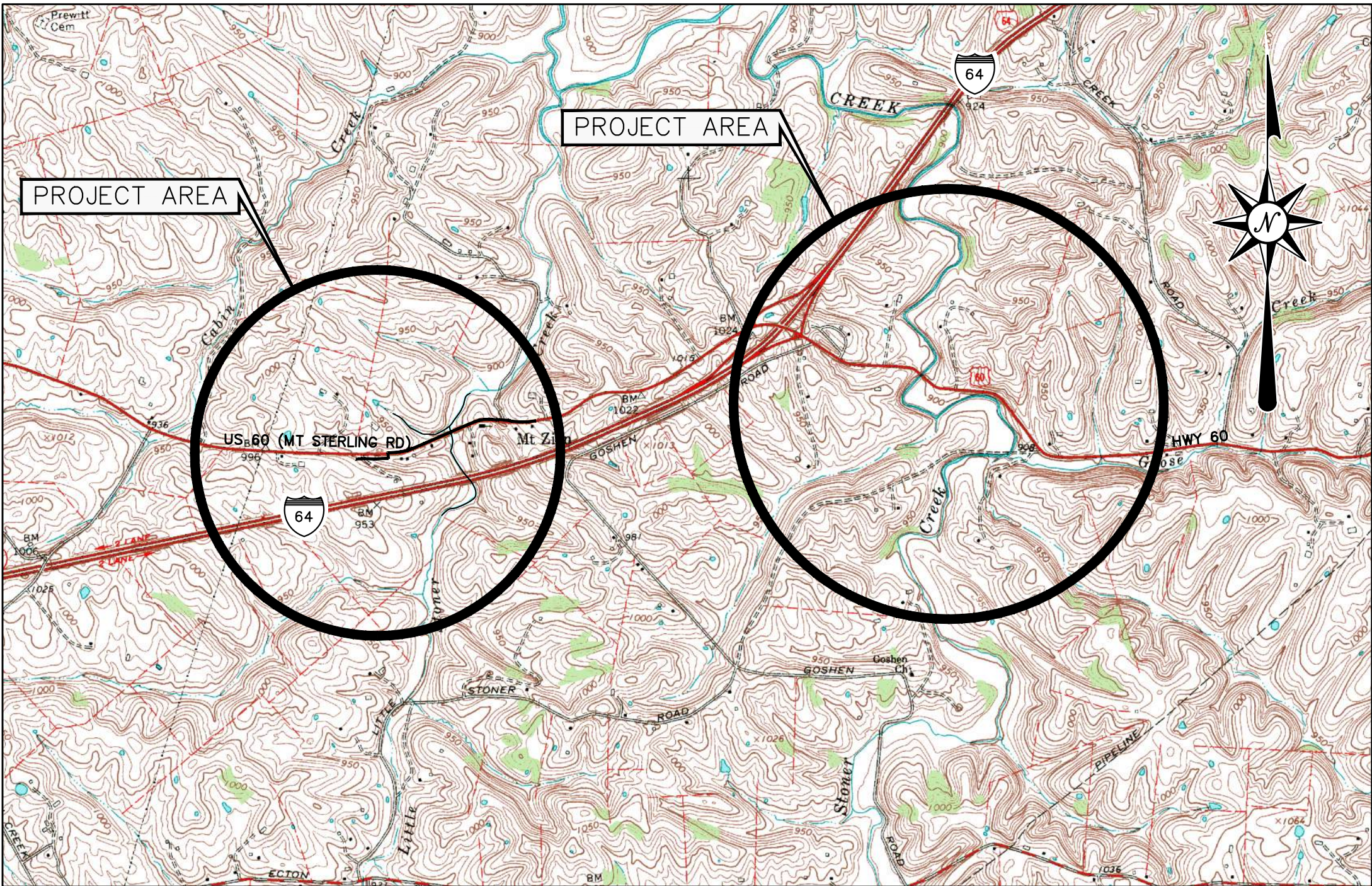
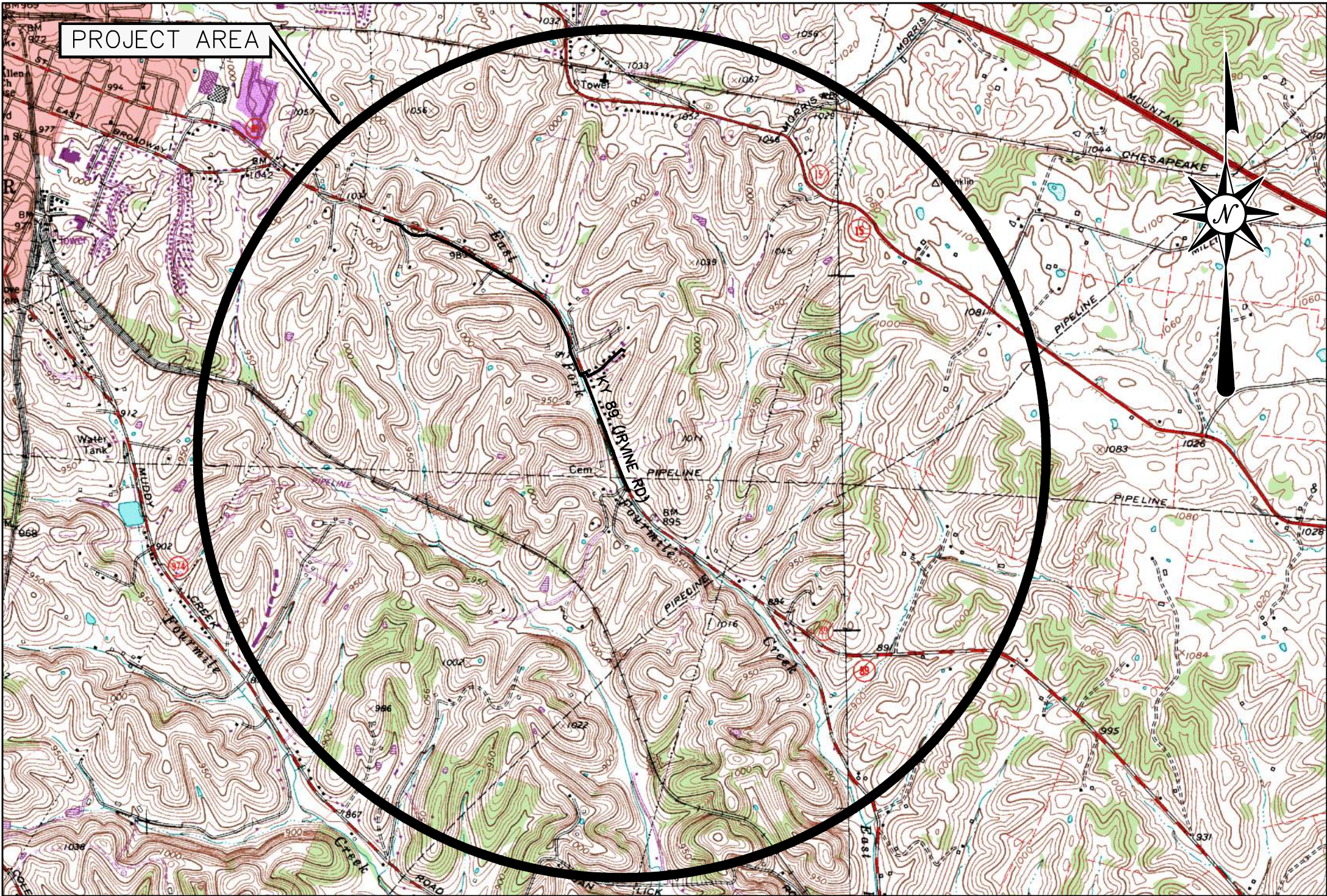


MOUNT STERLING ROAD AND KY 89 WATER LINE UPGRADE

EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY
AUGUST 2024



US 60 (MT STERLING RD) USGS MAP
1" = 2,000'



KY 89 (IRVINE ROAD) KY 1958 (VETERANS MEMORIAL PARKWAY) TO ROCKY TOP LANE USGS MAP
1" = 2,000'

SHEET INDEX

TITLE

- COVER
- PROJECT MAP, GENERAL NOTES AND LEGEND
- US 60 (MT STERLING RD)
- US 60 (MT STERLING RD)
- US 60 (MT STERLING RD)
- KY 89 (IRVINE ROAD)
- KY 89 (IRVINE ROAD)
- STANDARD DETAILS
- STANDARD DETAILS
- EROSION CONTROL DETAILS

SHEET NO.

- 00
- 01
- 02
- 03
- 04
- 05
- 06
- D1
- D2
- ECD1

CONTRACT NO.
415-24-02
2024

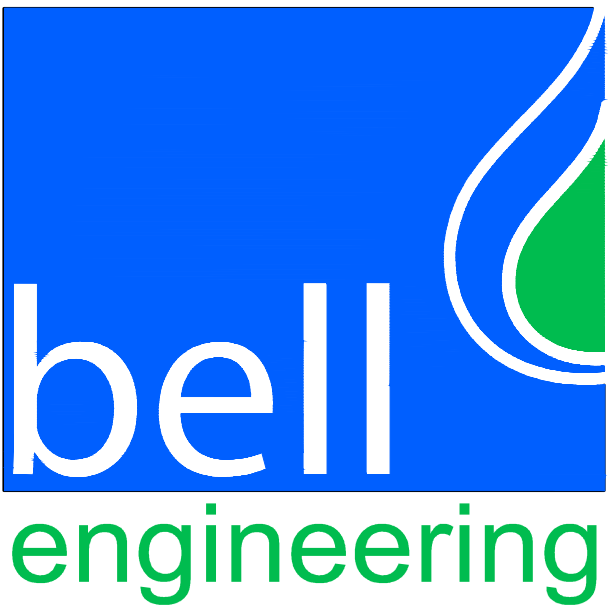


MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

FACSIMILES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE ONLY IF SIGNED AND DATED BY THE REGISTRANT.

BUD NOTE:
KENTUCKY STATUTES (KRS 367.4901 THROUGH 367.4917) REQUIRE THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA AND/OR AN UNDERGROUND PROTECTION SERVICE SUCH AS BUD (1-800-752-6007 OR 811) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING WORK TO ALERT UTILITY COMPANIES IN THE AREA WITH UNDERGROUND FACILITIES OF THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.

- ☒ CLIENT REVIEW
- ☒ BELL (QA) REVIEW
- ☒ DIVISION OF WATER REVIEW
- ☒ BID DOCUMENTS
- ☐ RECORD DRAWINGS



2480 fortune drive, suite 350
lexington, kentucky 40509
P: 859-278-5412 | F: 859-278-2911
www.hkbell.com

KENTUCKY TRANSPORTATION
CABINET (KYTC) NOTES

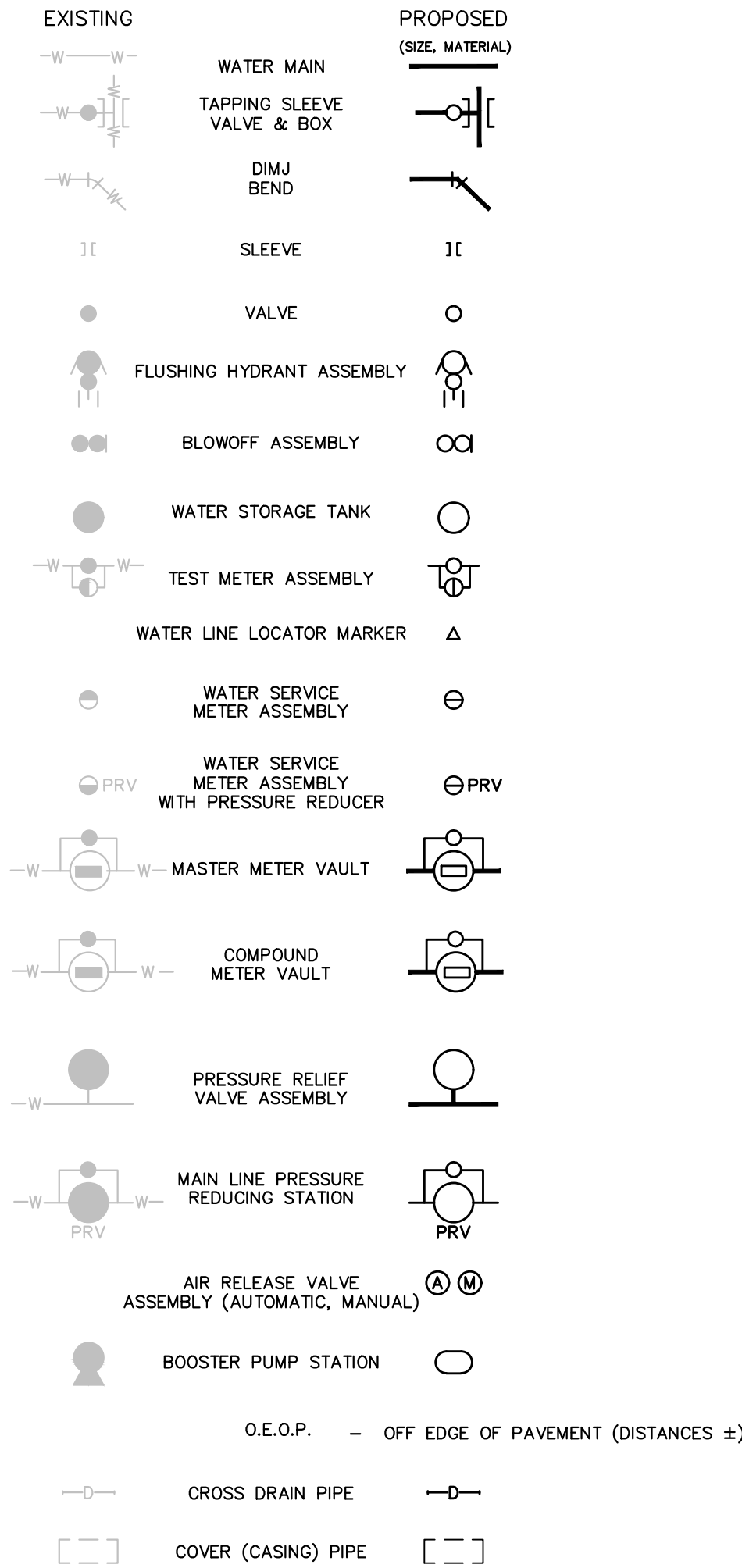
- WATER LINES TO BE CONSTRUCTED WITHIN THE KENTUCKY TRANSPORTATION CABINET RIGHT-OF-WAY. TRENCHES SHALL BE OF A DEPTH SUFFICIENT TO PROVIDE A MINIMUM COVER OF 42" FROM THE GROUND SURFACE TO THE TOP OF THE PIPE AND BE LOCATED APPROXIMATELY AS SHOWN UNLESS OTHERWISE NOTED. SEE INDIVIDUAL SHEETS FOR DETAILS.
- ALL BORES UNDER KYTC RIGHT-OF-WAY: SHALL BE A MINIMUM OF 42" DEPTH UNDER BOTTOM OF DITCH LINE TO TOP OF PROPOSED BORE AND/OR CASING PIPE ON BOTH SIDES OF THE HIGHWAY.
- ROCK BLASTING: THERE SHALL BE NO BLASTING WITHIN STATE RIGHT-OF-WAY WITHOUT WRITTEN CONSENT FROM THE KENTUCKY TRANSPORTATION CABINET.
- PROTECTION OF EXISTING PAVING: CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID CRACKING OR BREAKING THE BITUMINOUS PAVING. ALL DAMAGE TO THE EXISTING PAVING CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. PAVING PROTECTION SHALL BE ACCOMPLISHED BY THE USE OF RUBBER AND STREET PADDED MACHINERY OR OTHER APPROVED EQUIPMENT WELL SUITED FOR THIS TYPE OF CONSTRUCTION.
- BANK AND DITCH PROTECTION EXCAVATION: DURING CONSTRUCTION ALL EMBANKMENTS, REFILLS AND EXCAVATIONS SHALL BE KEPT SHAPED AND DRAINED BY THE CONTRACTOR. DITCHES AND DRAINS ALONG THE HIGHWAYS SHALL BE MAINTAINED IN SUCH A MANNER AS TO DRAIN EFFECTIVELY AT ALL TIMES.
- PRIVATE ENTRANCE ROADS: ALL ROADWAYS AND DRIVEWAYS WITHIN THE WORK LIMITS OF STATE RIGHT-OF-WAYS SHALL BE BORED UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER TO OPEN CUT. IF OPEN CUT PERMISSION IS GRANTED, THE CROSSING SHALL BE REFILLED TO THE NATURAL SURFACE OF THE GROUND WITH APPROVED MATERIAL. THE MATERIAL SHALL BE PLACED & COMPACTED TO A SMOOTHNESS SUITABLE FOR TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTAINING THESE ROADWAYS UNTIL THE RESTORATION IS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTE THAT ALL PRIVATE BUSINESS & RESIDENTS ALONG THE ROUTE OF THE PROPOSED CONSTRUCTION MUST HAVE ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- PROTECTION OF EXISTING DRAINAGE CULVERTS: AT LOCATIONS WHERE THE PROPOSED WATER MAIN IS PARALLEL WITH OR CROSSING AN EXISTING STORM SEWER, THE COST OF RELAYING EXISTING CULVERT PIPES OR THE EXTRA DEPTH REQUIRED TO AVOID THE EXISTING CULVERT IS CONSIDERED INCIDENTAL TO CONSTRUCTION AND IS NOT A PAY ITEM.
- SOME EXISTING UTILITIES HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE REPRESENTATIVES OF THE VARIOUS UTILITIES WHEN WORKING NEAR ANY EXISTING UTILITY. NO ADDITIONAL PAYMENT TO THE CONTRACTOR WILL BE MADE FOR EXTRA DEPTH REQUIRED TO AVOID ANY EXISTING UTILITY.
- FINAL LOCATION OF FLUSHING HYDRANT ASSEMBLIES SHALL BE MADE IN THE FIELD IN CONJUNCTION WITH KYTC PERSONNEL. BREAKAWAY COMPONENTS SHALL BE USED AT NO ADDITIONAL COST TO THE OWNER IF THE FLUSHING HYDRANT ASSEMBLIES CANNOT BE LOCATED OUTSIDE THE CLEAR ZONE.
- A MEETING SHALL BE HELD BETWEEN THE OWNER, CONTRACTOR KYTC AND ENGINEER PRIOR TO BORING THE ROAD. KYTC MAY DIRECT THE CONTRACTOR TO DIRECTIONAL BORE SPECIFIC ROAD CROSSINGS DURING THIS MEETING.

PRIOR TO BEGINNING OF WORK ON KENTUCKY TRANSPORTATION RIGHTS-OF-WAY THE CONTRACTOR SHALL HAVE COMPLETED THE KENTUCKY TRANSPORTATION CABINET'S WORK ZONE TRAFFIC CONTROL EMPLOYEE QUALIFICATION PROGRAM. INDIVIDUALS PERFORMING FLAGGING OPERATIONS ON ANY KENTUCKY ROADWAY MUST BE QUALIFIED AND CERTIFIED BY THE KENTUCKY TRANSPORTATION CABINET. INDIVIDUALS WHO PLACE, MONITOR, AND MAINTAIN TRAFFIC CONTROL DEVICES ON PUBLIC ROADWAYS IN KENTUCKY SHALL HAVE SUCCESSFULLY COMPLETED THE WORK ZONE TRAFFIC CONTROL TECHNICIAN PROGRAM. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING THE TRAFFIC CONTROL PLAN, THE INDIVIDUALS RESPONSIBLE FOR THIS WORK SHALL HAVE SUCCESSFULLY COMPLETED THE WORK ZONE TRAFFIC CONTROL SUPERVISOR PROGRAM. FOR MORE INFORMATION ON THE WORK ZONE TRAFFIC CONTROL EMPLOYEE QUALIFICATION PROGRAM AS PRESENTED BY THE TECHNOLOGY TRANSFER PROGRAM, KENTUCKY TRANSPORTATION CENTER, UNIVERSITY OF KENTUCKY CALL THE CENTER'S TOLL FREE NUMBER 1-800-432-0719 OR CONTACT THE DEPARTMENT OF HIGHWAYS, DISTRICT 7, 800 NEWTOWN COURT LEXINGTON, KY 40511

- CONTRACTOR IS REQUIRED TO NOTIFY KYTC 48 HOURS BEFORE ANY CONSTRUCTION BEGINS.
- ALL MANHOLES, METERS, & VALVES ON STATE RIGHT-OF-WAY SHALL BE FLUSH WITH THE GROUND LEVEL.

DISTRICT 7
800 NEWTOWN COURT
LEXINGTON, KY 40511
PHONE: (859) 246-2355
FAX: (859) 246-2354

WATER MAIN LEGEND

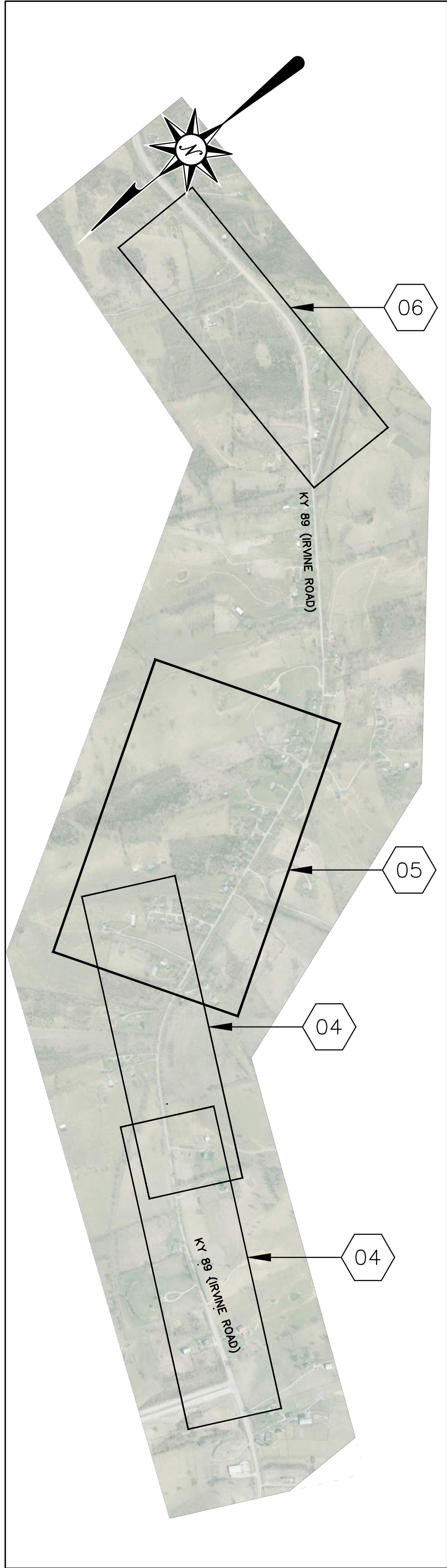
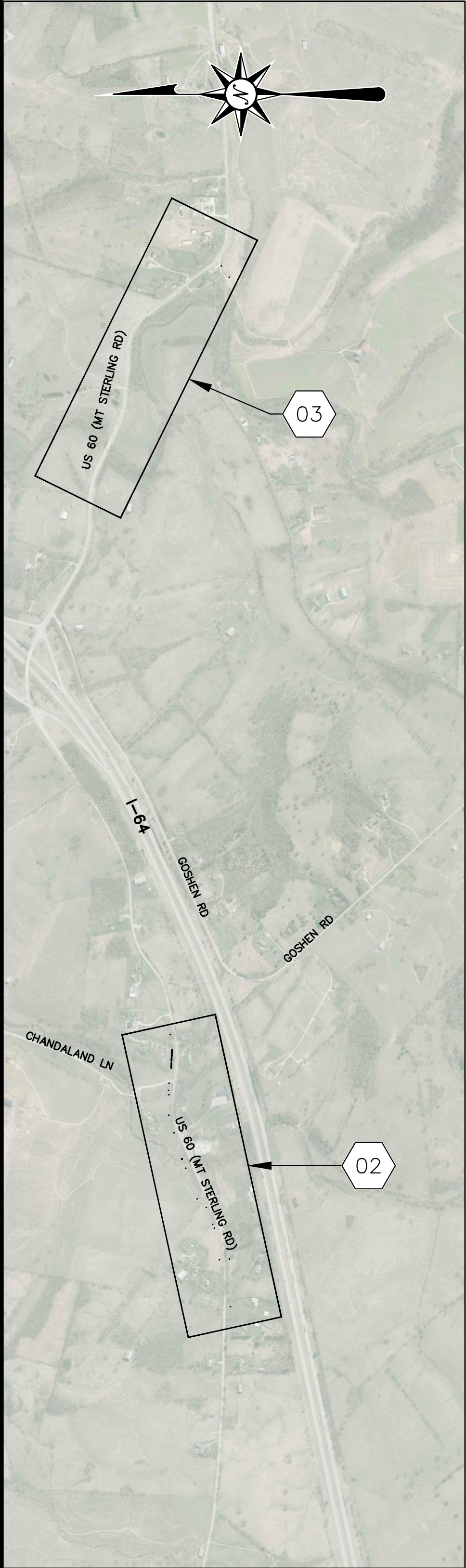
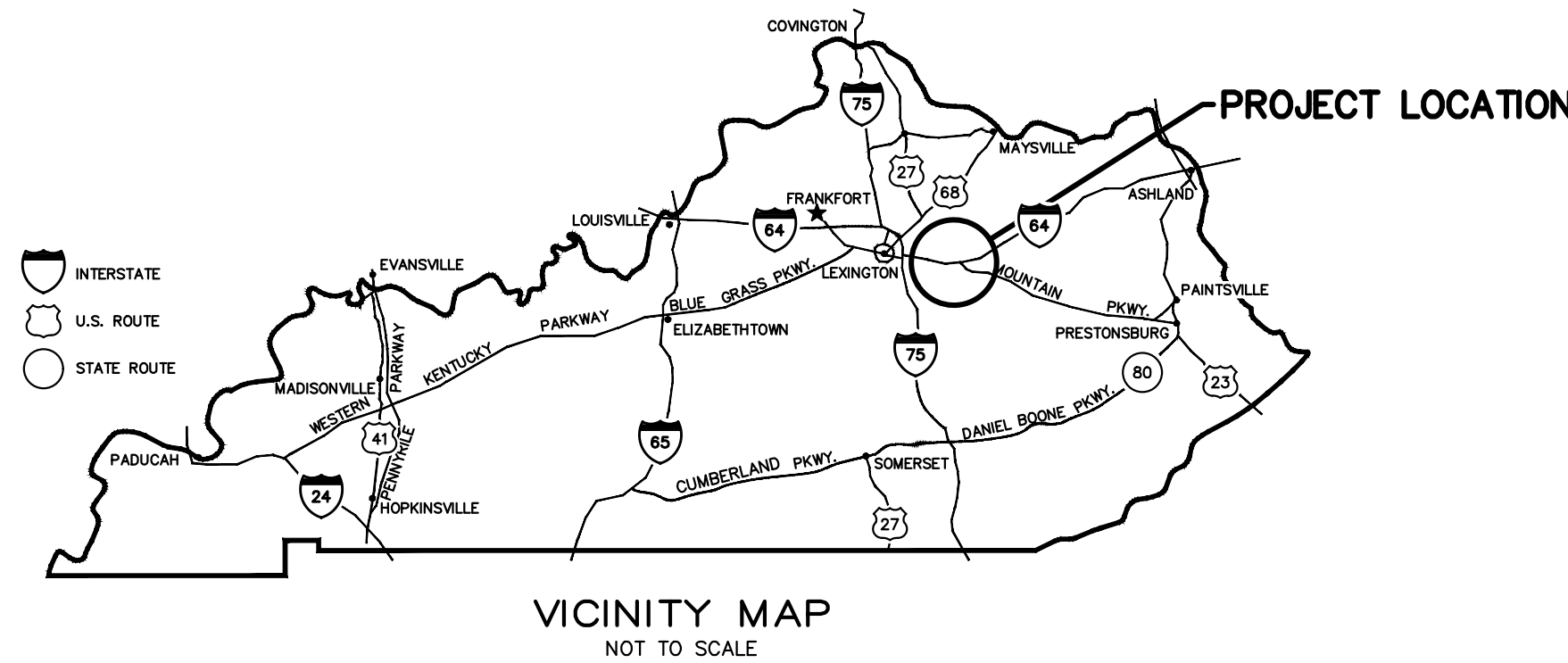


GENERAL NOTES FOR
WATER MAINS/LINES:

- MINIMUM COVER OVER WATER LINES TO BE 36 INCHES UNLESS OTHERWISE NOTED.
- MINIMUM COVER OVER WATER PIPES ON STATE RIGHT-OF-WAY TO BE 42 INCHES.
- ALL BORES UNDER STATE HIGHWAYS RIGHT-OF-WAY: SHALL BE A MINIMUM OF 42 INCHES DEPTH UNDER BOTTOM OF DITCH LINE TO TOP OF PROPOSED BORE AND/OR CASING PIPE ON BOTH SIDES OF THE HIGHWAY (PER LATEST KYTC DETAIL TC99-209).
- MINIMUM COVER OVER VALVE NUT TO BE 12 INCHES (NO PAYMENT FOR EXTRA DEPTH), MAXIMUM COVER OVER VALVE NUTS TO BE 30 INCHES (NO EXTRA PAYMENT FOR REQUIRED EXTENSIONS).
- POURED CONCRETE BLOCKING OF FITTINGS REQUIRED AT NO EXTRA COST.
- THE CONTRACTOR SHALL HAVE THE OPTION OF USING FITTINGS OR EXTRA DEPTH TRENCHING AT ALL LOCATIONS WHERE VERTICAL BENDS ARE SHOWN. EITHER METHOD WILL BE AT NO EXTRA COST TO OWNER ABOVE THAT BID FOR FURNISHING, TRENCHING, LAYING AND BACKFILLING PIPE AND FITTINGS, AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- LAY NEW LINES UNDER EXISTING WATER LINES AND GAS LINES, EXCEPT AS OTHERWISE NOTED OR DETERMINED IN THE FIELD. (NO PAYMENT FOR EXTRA DEPTH TRENCH).
- ALL PVC PIPE TO BE ASTM SDR-17 CLASS 250 UNLESS SHOWN OTHERWISE.
- NO SCRAPE PIECES OF PIPE, TRASH, ETC. ALLOWED IN TRENCH.
- ALL C-900 TO BE CLASS 235.
- ALL POLYETHYLENE PIPE FOR WATER TO MEET/EXCEED LATEST ASTM D3350 AND ASTM F714 SPECIFICATIONS.
- PAYMENT FOR PIPE WILL BE FOR LENGTHS ACTUALLY INSTALLED AND MEASURED IN THE FIELD AND AGREED ON BY CONTRACTOR AND ENGINEER'S REPRESENTATIVE AT THE END OF EACH DAY.
- LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE ONLY. EXACT LOCATIONS, DEPTHS AND MATERIAL OF PIPE MUST BE DETERMINED BY CONTRACTOR BEFORE EXCAVATING FOR NEW FACILITIES.
- LINE MARKERS OR LINE LOCATOR MARKERS TO BE LOCATED AT PROPERTY AND OR FENCE LINES AS DIRECTED BY THE ENGINEER OR OWNER.
- ALL TIE-IN LOCATIONS SHALL BE UNCOVERED PRIOR TO CONSTRUCTION TO MAINTAIN PROPER ALIGNMENT AND ELEVATION OF NEW CONNECTIONS.
- CONTRACTOR SHALL INVENTORY REQUIRED MATERIALS, TRENCH DEWATERING EQUIPMENT, AND ASSEMBLE IF NECESSARY ALL REQUIRED FITTINGS PRIOR TO CUT-INS OR TIE-INS TO INSURE MINIMUM "DOWN TIME" FOR CONNECTION.
- SURFACE DRAINAGE SHALL BE MAINTAINED ON A DAILY BASIS.
- SHAPE, SEED AND STRAW ALL DISTURBED AREAS IMMEDIATELY AFTER COMPLETING WORK PER LATEST KYTC PERMITS MANUAL.
- THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL EXCESS EXCAVATED MATERIAL FROM WATER MAIN AND SERVICE LINE CONSTRUCTION.
- THE OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY SCHEDULED "DOWN-TIME" AS IT RELATES TO WATER SERVICE.
- ALL FITTINGS FOR PVC, D.I. PIPE SHALL BE D.I.M.J. AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WATER LINE OR APPURTENANCES.
- ANY ABANDONED WATER LINE APPURTENANCES SHALL BE DEEMED THE PROPERTY OF THE EAST CLARK COUNTY WATER DISTRICT AND SHALL BE REMOVED, CLEANED AND RETURNED UPON REQUEST TO A LOCATION DIRECTED BY EAST CLARK COUNTY WATER DISTRICT.
- THE CONTRACTOR SHALL PROFILE ALL COUNTY ROAD CROSSINGS AND CREEK CROSSINGS AND SUBMIT GATHERED SURVEY DATA TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO THE COMMENCEMENT OF ANY DRILLING, BORING OR OPEN CUTTING ACTIVITIES.
- CONTRACTOR TO CALL THE FOLLOWING PRIOR TO START OF CONSTRUCTION:
 - *811
 - *EAST CLARK COUNTY WATER DISTRICT 859-745-1458 OFFICE
 - WILLIAM BALLARD MGR.
 - * (KYTC) KENTUCKY TRANSPORTATION CABINET LEXINGTON, KY. 859-246-2355

CLARK COUNTY ROAD DEPARTMENT
ROAD CUT SPECIFICATIONS:

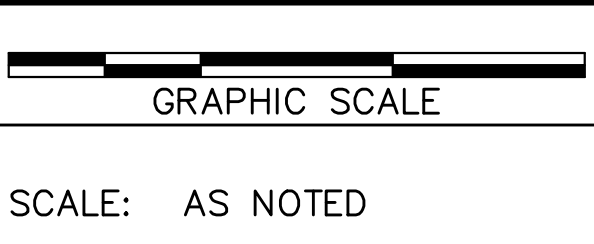
- CUTS MUST EXCEED 1 FT. INTO ROAD SURFACE OF DITCH.
- PATCH MUST HAVE MINIMUM 6 INCHES COMPACTED DGA, 5 INCHES BASE ASPHALT, 2 INCHES HOT MIX OVERLAY
- SEAL EDGES WITH RUBBERIZED HOT FLEX SEAL.
- MUST BE WARRANTED FOR 1 YEAR.



PROJECT MAP
1" = 1,000'

PROJECT MAP
1" = 1,000'

DESIGNER	MAL	DATE	BY	REVISION
DRAWN	TEW			
CHECKED	JKR			
APPROVED	MAL			



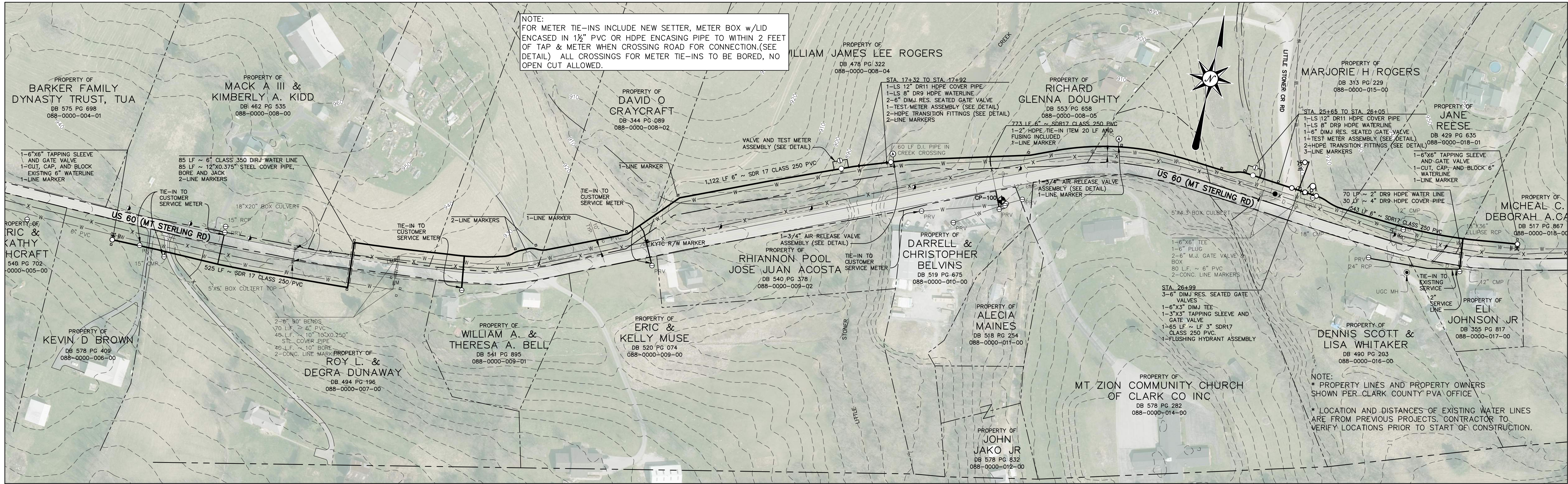
ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF BELL ENGINEERING AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION OF BELL ENGINEERING.
FACSIMILES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE ONLY IF SIGNED AND DATED BY THE REGISTRANT.

Lexington, KY (859) 278-5412
Hopkinsville, KY (270) 886-5466
Somerset, KY (606) 485-4011

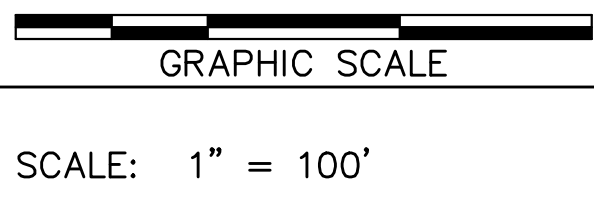
MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

PROJECT MAP, GENERAL NOTES AND LEGEND

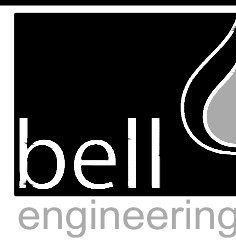
DIVISION	—
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	01 OF 06



DESIGNER	MAL	DATE	BY	REVISION
DRAWN	TEW			
CHECKED	JKR			
APPROVED	MAL			



ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF BELL
ENGINEERING AND SHALL NOT BE REPRODUCED
IN WHOLE OR IN PART OR USED FOR CONSTRUCTION
OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT
THE WRITTEN PERMISSION OF BELL ENGINEERING.
FACSIMILES OF LICENSED PROFESSIONAL ENGINEER
AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO
THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE
ONLY IF SIGNED AND DATED BY THE REGISTRANT.

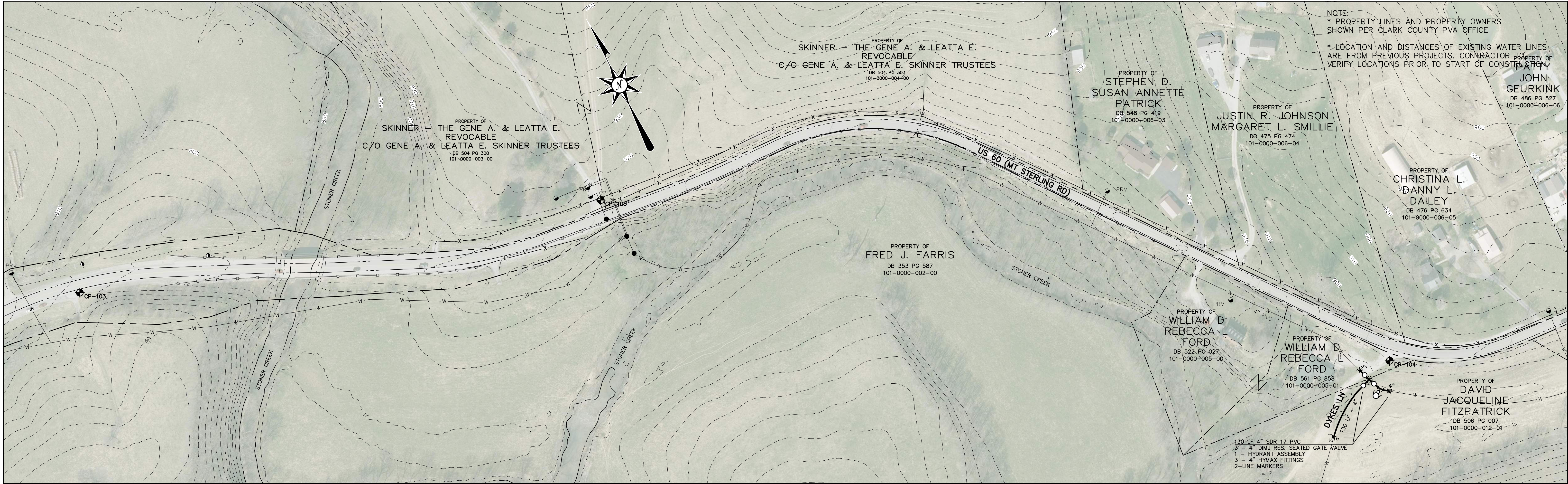


Lexington, KY (859) 278-5412
Hopkinsville, KY (270) 886-5466
Somerset, KY (606) 485-4011

MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

US 60 (MT STERLING RD)

DIVISION	A
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	02 OF 06



NOTE:
* PROPERTY LINES AND PROPERTY OWNERS SHOWN PER CLARK COUNTY PVA OFFICE
* LOCATION AND DISTANCES OF EXISTING WATER LINES ARE FROM PREVIOUS PROJECTS. CONTRACTOR TO VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION.

PROPERTY OF
JOHN
GEURKINK
DB 486 PG 527
101-0000-006-06

PROPERTY OF
JUSTIN R. JOHNSON
MARGARET L. SMILLIE
DB 475 PG 474
101-0000-006-04

PROPERTY OF
CHRISTINA L.
DANNY L.
DAILEY
DB 476 PG 634
101-0000-006-05

PROPERTY OF
SKINNER - THE GENE A. & LEATTA E.
REVOCABLE
C/O GENE A. & LEATTA E. SKINNER TRUSTEES
DB 504 PG 303
101-0000-004-00

PROPERTY OF
SKINNER - THE GENE A. & LEATTA E.
REVOCABLE
C/O GENE A. & LEATTA E. SKINNER TRUSTEES
DB 504 PG 300
101-0000-003-00

PROPERTY OF
FRED J. FARRIS
DB 353 PG 587
101-0000-002-00

PROPERTY OF
WILLIAM D.
REBECCA L.
FORD
DB 522 PG 027
101-0000-005-00

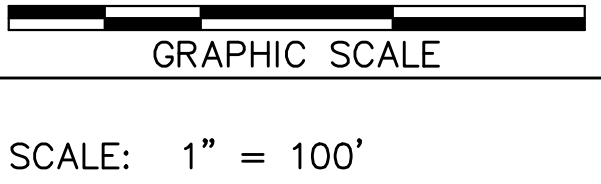
PROPERTY OF
WILLIAM D.
REBECCA L.
FORD
DB 561 PG 858
101-0000-005-01

PROPERTY OF
DAVID
JACQUELINE
FITZPATRICK
DB 506 PG 007
101-0000-012-01

130 LF 4" SDR 17 PVC
3 - 4" DIMJ RES. SEATED GATE VALVE
1 - HYDRANT ASSEMBLY
3 - 4" HYMAX FITTINGS
2-LINE MARKERS



DESIGNER	MAL	DATE	BY	REVISION
DRAWN	TEW			
CHECKED	JKR			
APPROVED	MAL			



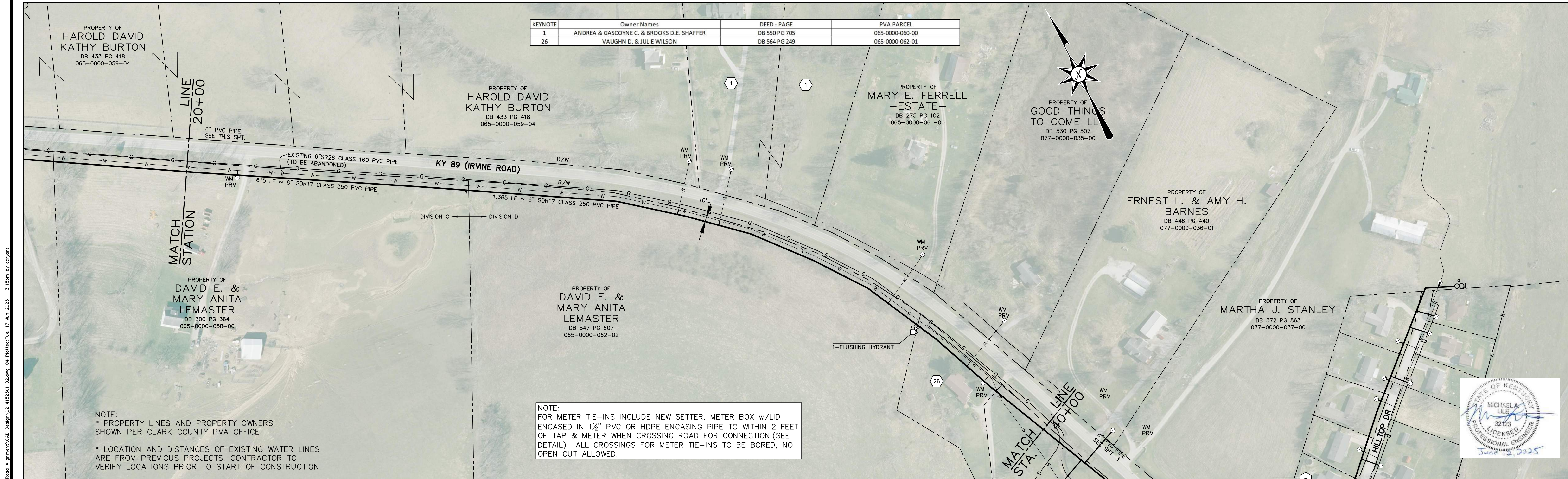
ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF BELL ENGINEERING AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION OF BELL ENGINEERING.
FACSIMILES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE ONLY IF SIGNED AND DATED BY THE REGISTRANT.

bell
engineering
Lexington, KY (859) 278-5412
Hopkinsville, KY (270) 886-5466
Somerset, KY (606) 485-4011

MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

US 60 (MT STERLING RD)

DIVISION	B
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	03 OF 06



DIVISION	C, D, & E
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	04 OF 06

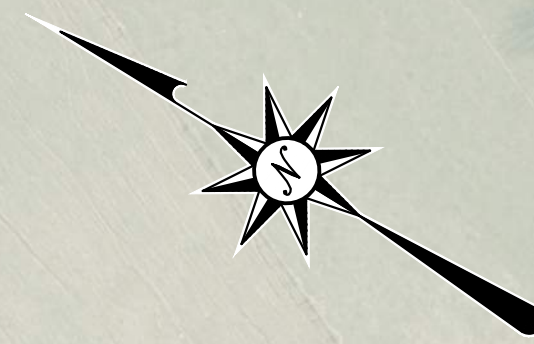
PROPERTY NUMBER	PROPERTY OWNER
1	ALBERT L. PROFITT
2	GREEN CEMETERY
3	JASON & LARISSA TOWNSEND
4	CLARENCE W. HOLMES
5	HOUST REALTY GROUP LLC
6	ALBERTA BRESSLER
7	THOMAS H. HILBRAND
8	DENNIS RAY HENRY
9	DOUGLAS E. & NORMA JEAN MARTIN
10	ELIZABETH LOFTUS ESTATE
11	ROWLAND FOUNDATION INC c/o ROBERT L. ROSE
12	CLARENCE HOLMES c/o CHARLES HOLMES
13	ROBERT D. & TIFFANY N. ALLEN
14	HAROLD L. & VIRGINIA L. WITT
15	TAYLOR III & STEPHANIE ARNETT
16	DOUGLAS DOOLIN
17	JANET HACKWORTH
18	SCOTT GABEL
19	RHONDA L. & JEREMY L. SMITH
20	SANDRA G. RUDD
21	BRITT & CONNIE MASTIN
22	TAYLYNNE A. BRITTON & ERIC J. SHORT
23	JESSICA A. & TIMOTHY J. TOEWS

KEYNOTE	Owner Names	DEED - PAGE	PVA PARCEL
2	ROSS WITTENMYER	DB 550 PG 446	065-0000-064-00
3	CEMETERY GREEN	DB PG	065-0000-065-00
4	TANNA SHEA & WILMOR ASHLEY HOWARD	DB 580 PG 567	065-0000-066-00
5	CLARENCE W. HOLMES	DB 435 PG 140	065-0000-067-00
6	ALICE F. GARRETT	DB 550 PG 020	065-0000-068-00
7	SI RESIDENTIAL LLC	DB 560 PG 852	065-0000-069-00
8	KARLTON BENJAMIN COLBY ALLEX	DB 576 PG 807	065-0000-070-00
9	DENNIS RAY HENRY	DB 445 PG 120	065-0000-071-00
10	DOUGLAS E. & NORMA JEAN MARTIN	DB 250 PG 141	065-0000-072-00
11	LEIGHANNE POLLEY WILSON	DB 542 PG 462	065-0000-073-00
12	MCKENNA KRISTINE & CHARLES MAGGARD	DB 571 PG 561	065-0000-074-00
13	CLARENCE HOLMES c/o CHARLES HOLMES	DB 465 PG 807	065-0000-075-00
14	ROBERT D. & TIFFANY N. ALLEN	DB 460 PG 522	065-0000-076-00
15	FRED T. & SHARON ANN WHITE	DB 566 PG 538	065-0000-077-00
16	KAB ENTERPRISES LLC	DB 582 PG 695	065-0000-078-00
17	DOUGLAS G. & DELORES M. DOOLIN	DB 325 PG 388	078-0000-001-00
18	BRENT EDWARD WILSON	DB 543 PG 744	078-0000-002-00
19	CLAYTON & TERESA FARLEY	DB 575 PG 807	078-0000-003-00
20	RHONDA L. & JEREMY L. SMITH	DB 492 PG 667	078-0000-005-00
21	SANDRA GAYLE RICHARDSON	DB 362 PG 212	078-0000-006-00
22	BRET & CONNIE G. MASTIN	DB 260 PG 088	078-0000-007-00
23	TAYLYNNE A. BRITTON & ERIC J. SHORT	DB 513 PG 846	078-0000-008-00
24	JESSICA A. & TIMOTHY J. TOEWS	DB 428 PG 468	078-0000-009-00
25	TERRY W. & MARILYNN Y. CAMIC	DB 448 PG 471	078-0000-011-00
26	VAUGHN D. & JULIE WILSON	DB 564 PG 249	065-0000-062-01
27	LOWELL THOMAS SHIMFESSEL	DB 523 PG 175	066-0000-078-00
28	RUTH DICKERSON	DB 419 PG 871	078-0000-018-03
29	NOAH COMBS	DB 319 PG 025	078-0000-018-01

NOTE:
FOR METER TIE-INS INCLUDE NEW SETTER, METER BOX w/LID ENCASED IN 1 1/2" PVC OR HDPE ENCASED PIPE TO WITHIN 2 FEET OF TAP & METER WHEN CROSSING ROAD FOR CONNECTION.(SEE DETAIL) ALL CROSSINGS FOR METER TIE-INS TO BE BORED, NO OPEN CUT ALLOWED.

NOTE:
* PROPERTY LINES AND PROPERTY OWNERS SHOWN PER CLARK COUNTY PVA OFFICE

* LOCATION AND DISTANCES OF EXISTING WATER LINES ARE FROM PREVIOUS PROJECTS. CONTRACTOR TO VERIFY LOCATIONS PRIOR TO START OF CONSTRUCTION.

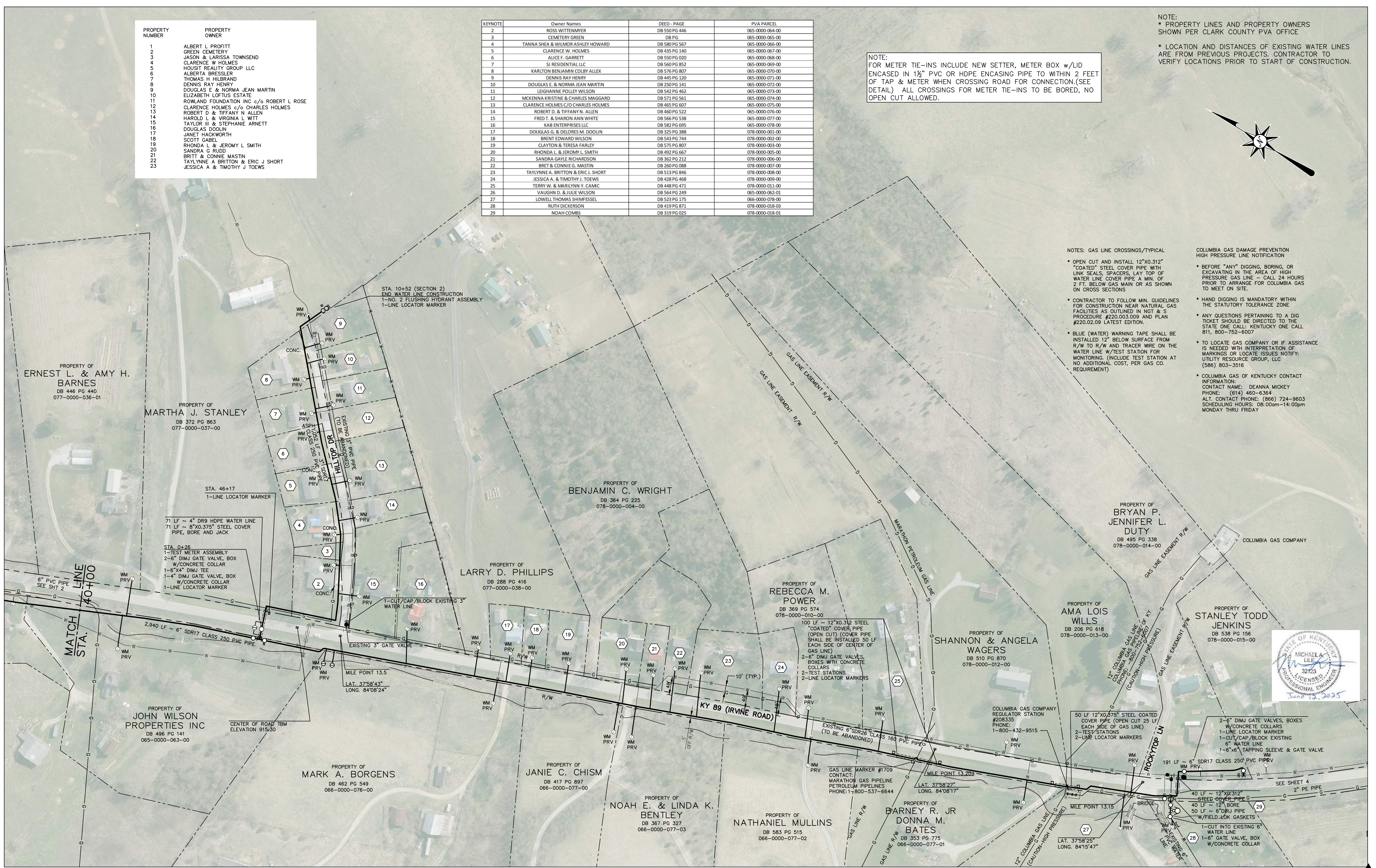


NOTES: GAS LINE CROSSINGS/TYPICAL

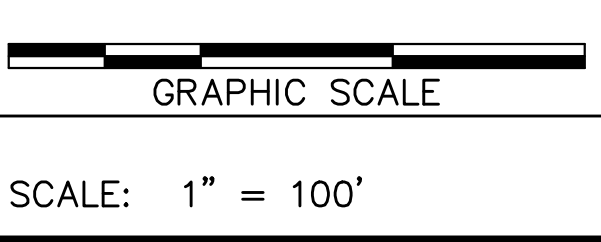
- * OPEN CUT AND INSTALL 12"x0.312" "COATED" STEEL COVER PIPE WITH LINK SEALS, SPACERS. LAY TOP OF WATER LINE COVER PIPE A MIN. OF 2 FT. BELOW GAS MAIN OR AS SHOWN ON CROSS SECTIONS
- * CONTRACTOR TO FOLLOW MIN. GUIDELINES FOR CONSTRUCTION NEAR NATURAL GAS FACILITIES AS OUTLINED IN NST & S PROCEDURE #220.003.009 AND PLAN #220.02.09 LATEST EDITION.
- * BLUE (WATER) WARNING TAPE SHALL BE INSTALLED 12" BELOW SURFACE FROM R/W TO R/W AND TRACER WIRE ON THE WATER LINE W/TEST STATION FOR MONITORING. (INCLUDE TEST STATION AT NO ADDITIONAL COST, PER GAS CO. REQUIREMENT)

COLUMBIA GAS DAMAGE PREVENTION HIGH PRESSURE LINE NOTIFICATION

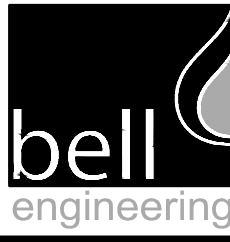
- * BEFORE "ANY" DIGGING, BORING, OR EXCAVATING IN THE AREA OF HIGH PRESSURE GAS LINE - CALL 24 HOURS PRIOR TO ARRANGE FOR COLUMBIA GAS TO MEET ON SITE.
- * HAND DIGGING IS MANDATORY WITHIN THE STATUTORY TOLERANCE ZONE
- * ANY QUESTIONS PERTAINING TO A DIG TICKET SHOULD BE DIRECTED TO THE STATE ONE CALL: KENTUCKY ONE CALL 811, 800-752-6007
- * TO LOCATE GAS COMPANY OR IF ASSISTANCE IS NEEDED WITH INTERPRETATION OF MARKINGS OR LOCATE ISSUES NOTIFY: UTILITY RESOURCE GROUP, LLC (586) 803-3516
- * COLUMBIA GAS OF KENTUCKY CONTACT INFORMATION:
CONTACT NAME: DEANNA MICKEY
PHONE: (614) 460-6364
ALT. CONTACT PHONE: (866) 724-9603
SCHEDULING HOURS: 08:00am-14:00pm MONDAY THRU FRIDAY



DESIGNER	MAL	DATE	BY	REVISION
DRAWN	TEW			
CHECKED	JKR			
APPROVED	MAL			



ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF BELL ENGINEERING AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION OF BELL ENGINEERING.
FACSIMILES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE ONLY IF SIGNED AND DATED BY THE REGISTRANT.



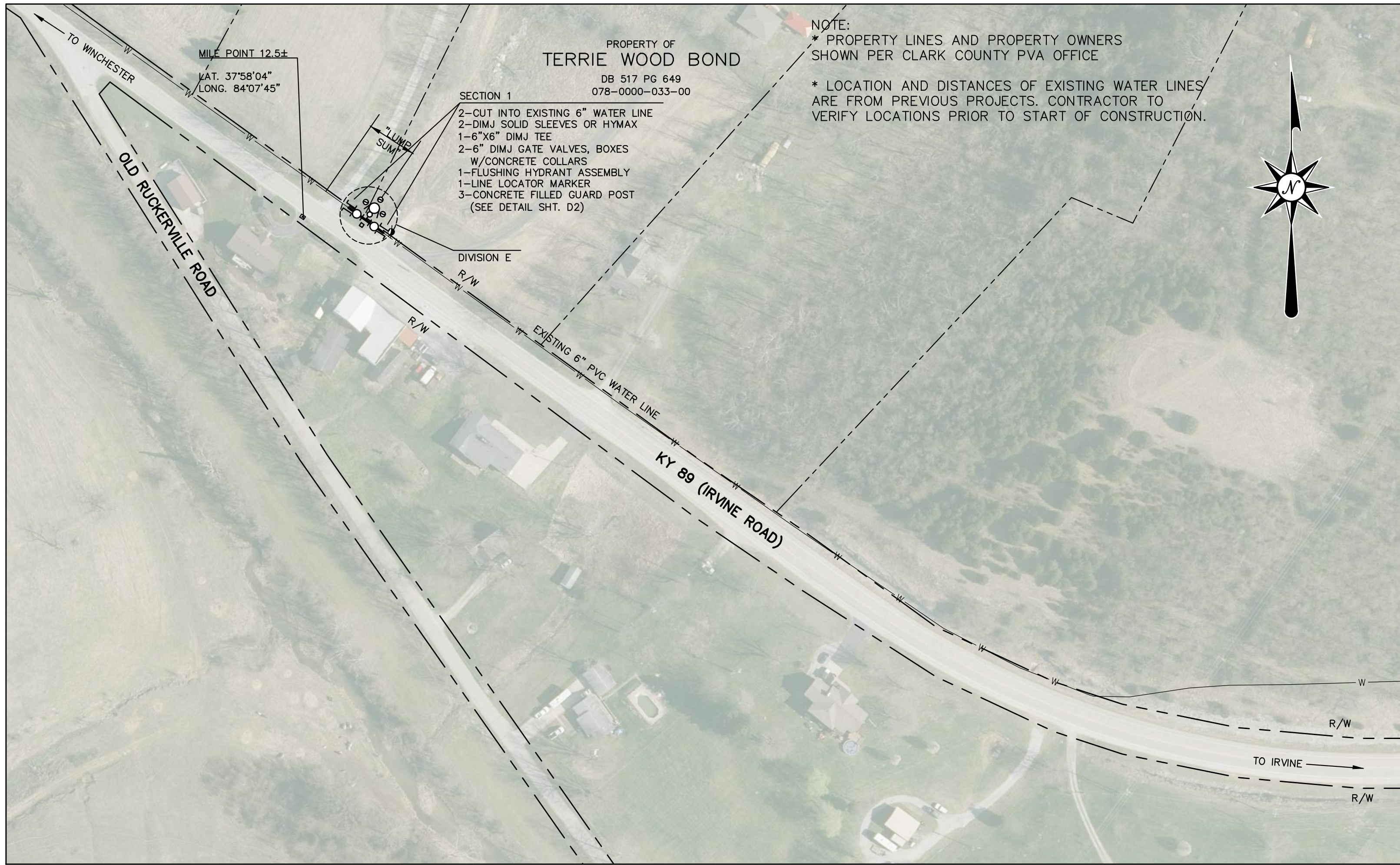
Lexington, KY (859) 278-5412
Hopkinsville, KY (270) 886-5466
Somerset, KY (606) 485-4011

MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

US 60 (MT STERLING RD)

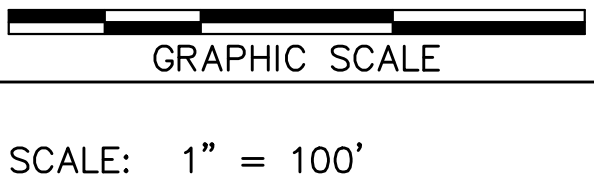
DIVISION	D
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	05 OF 06

Plot Style: 000-BELL-STD.ctb

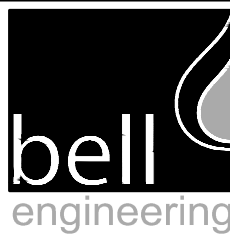


J:\EC\004\15\15 Mt Sterling Road Alignment\CAD Design\02 4152301 02.dwg - 06 6/17/2025 3:15:31 PM cbrant AutoCAD PDF (General Documentation).p3
J:\EC\004\15\15 Mt Sterling Road Alignment\CAD Design\02 4152301 02.dwg - 06 6/17/2025 3:15:31 PM cbrant AutoCAD PDF (General Documentation).p3

DESIGNER	MAL	DATE	BY	REVISION
DRAWN	TEW			
CHECKED	JKR			
APPROVED	MAL			



ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF BELL ENGINEERING AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION OF BELL ENGINEERING.
FACSIMILES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE ONLY IF SIGNED AND DATED BY THE REGISTRANT.



Lexington, KY (859) 278-5412
Hopkinsville, KY (270) 886-5466
Somerset, KY (606) 485-4011

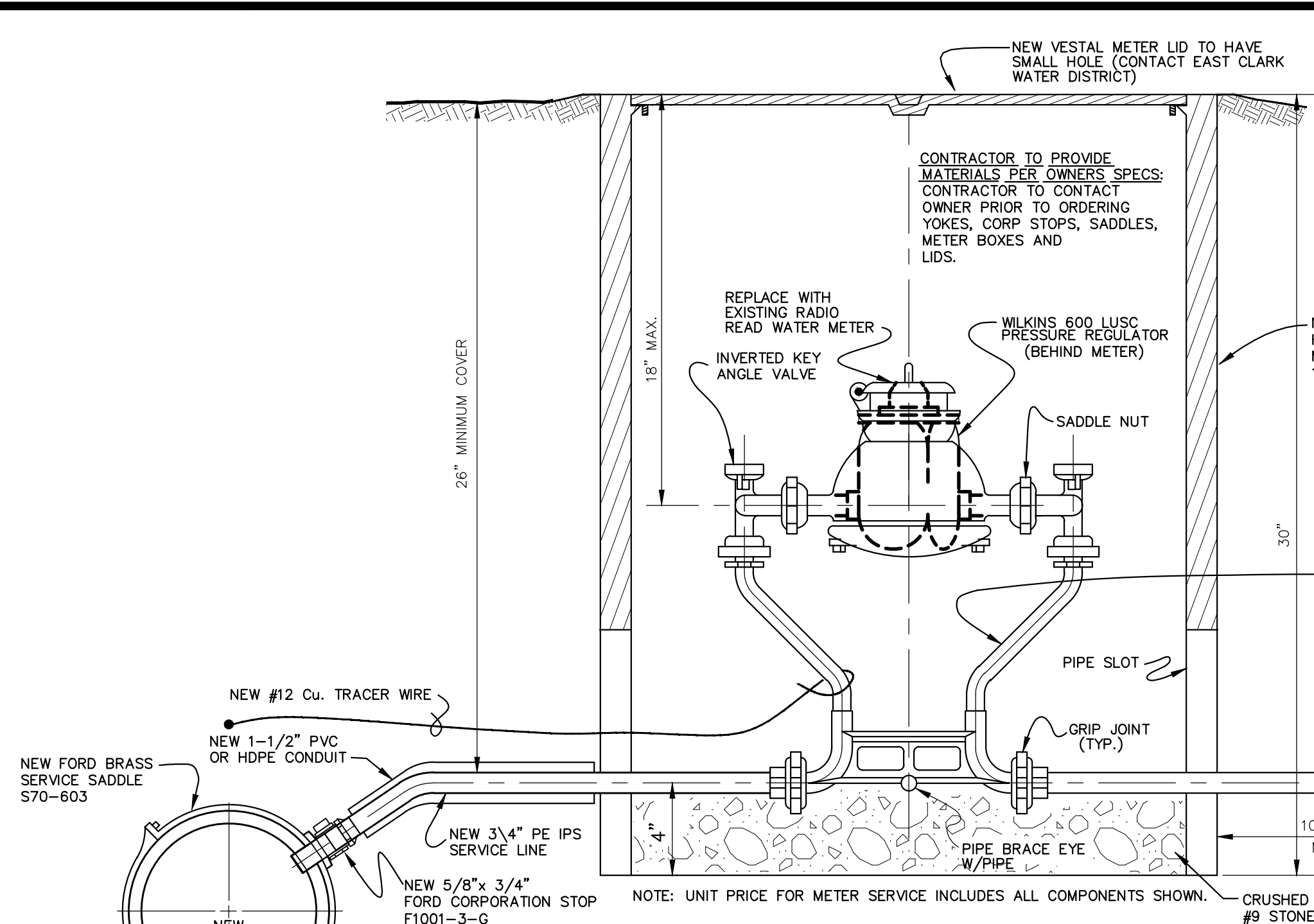
MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

US 60 (MT STERLING RD)

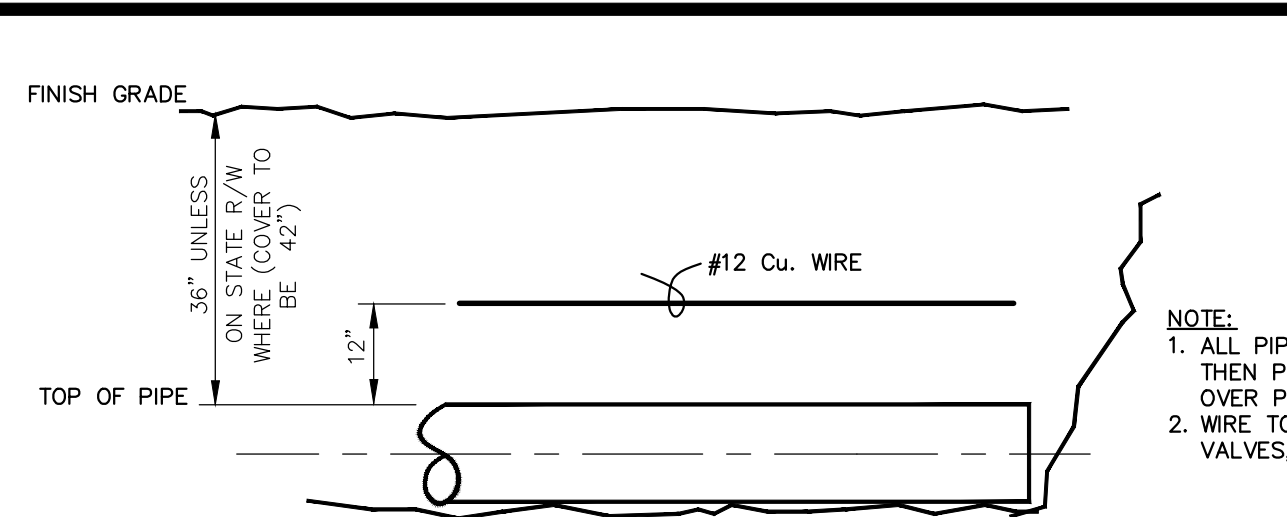


DIVISION	E
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	06 OF 06

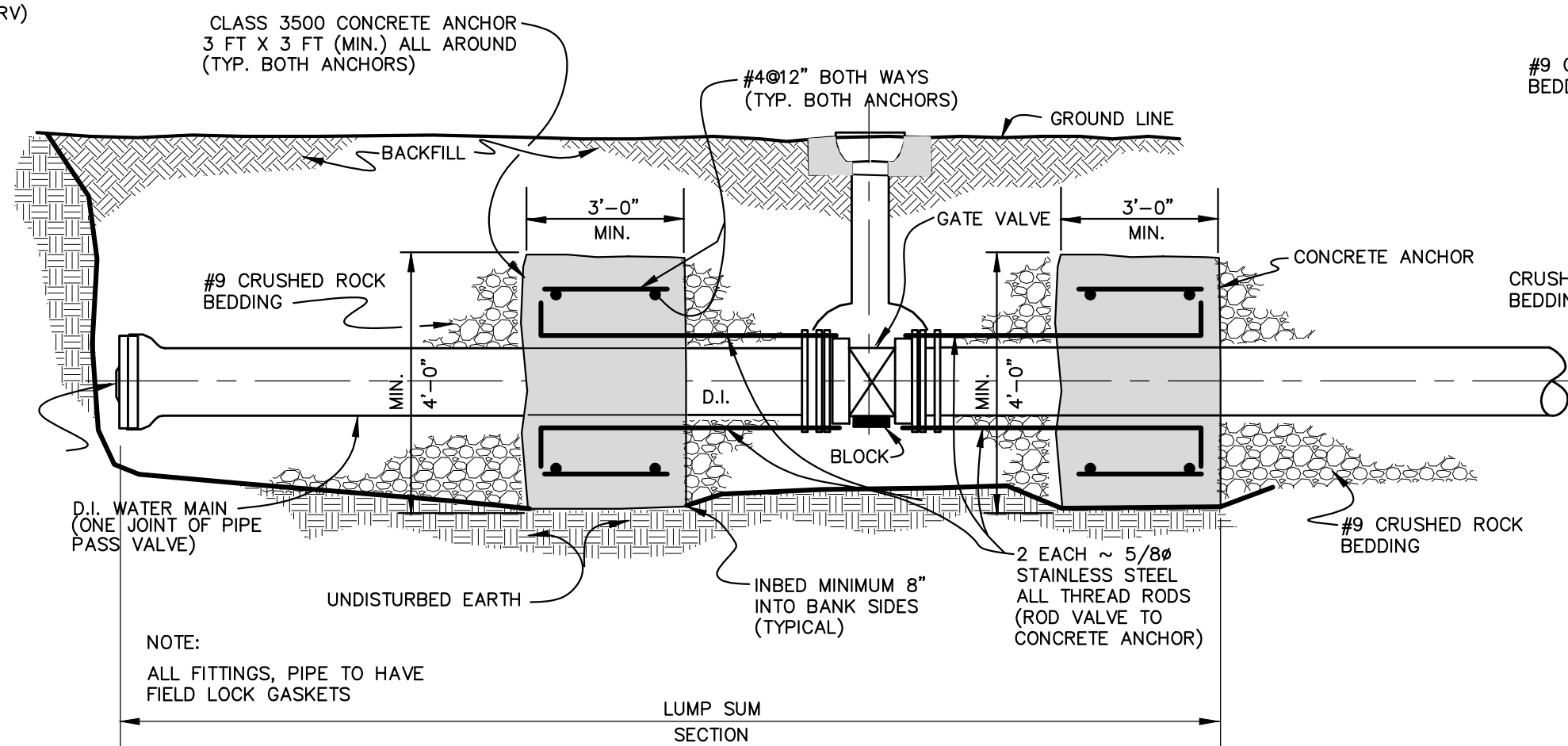
FILE NAME: 000-BELL-STD-040
J:\ECHO\445\445.Mt Sterling Road Alignment\CAD Design\08 445301.D1.dwg-D1 Plotted Tue, 17 Jun 2025 - 3:18pm by abrant



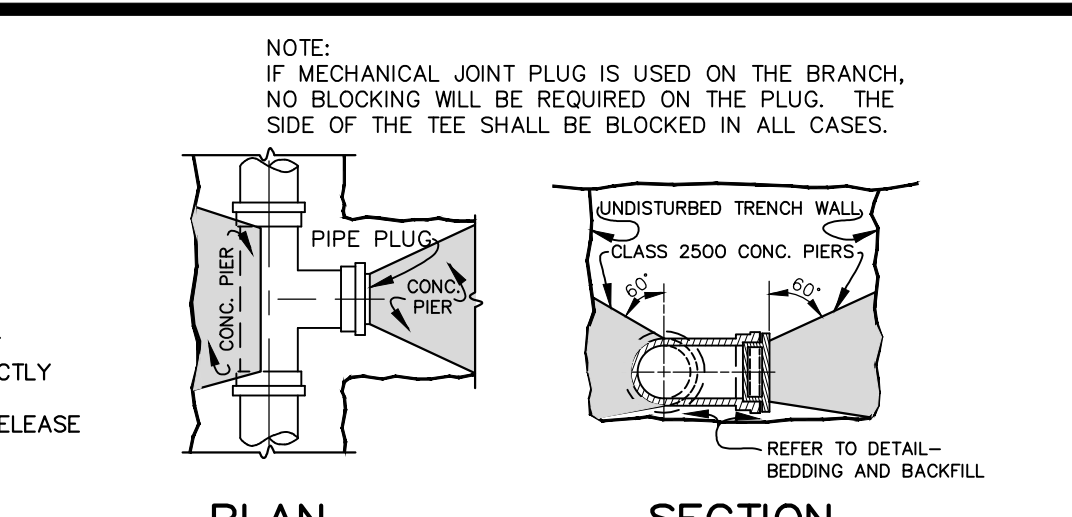
TYPICAL NEW SERVICE TANDEM METER SETTING
W/PRESSURE REGULATOR
NOT TO SCALE



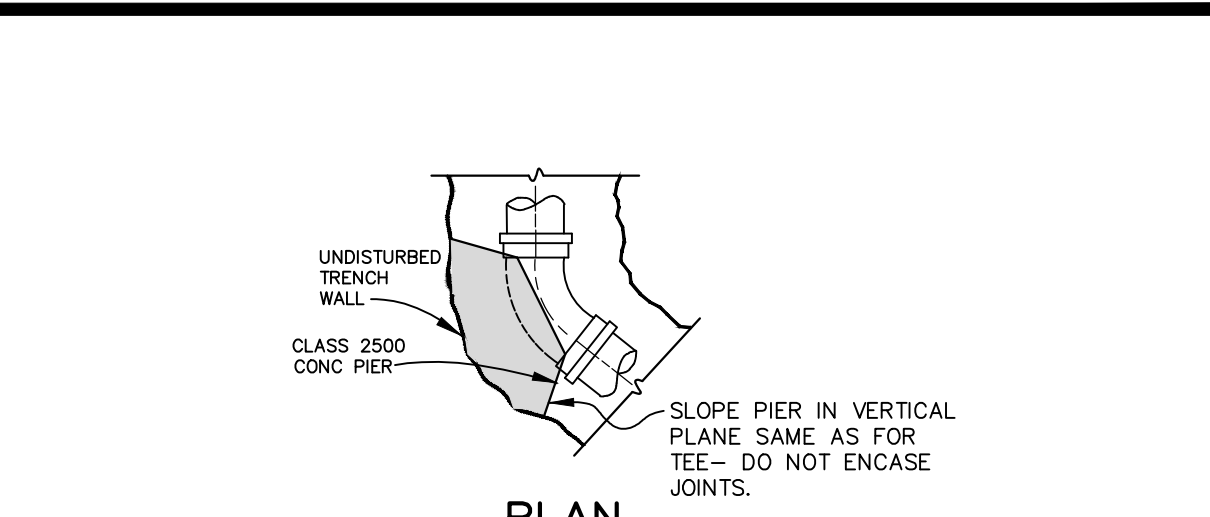
DETECTABLE WIRE INSTALLATION
NOT TO SCALE



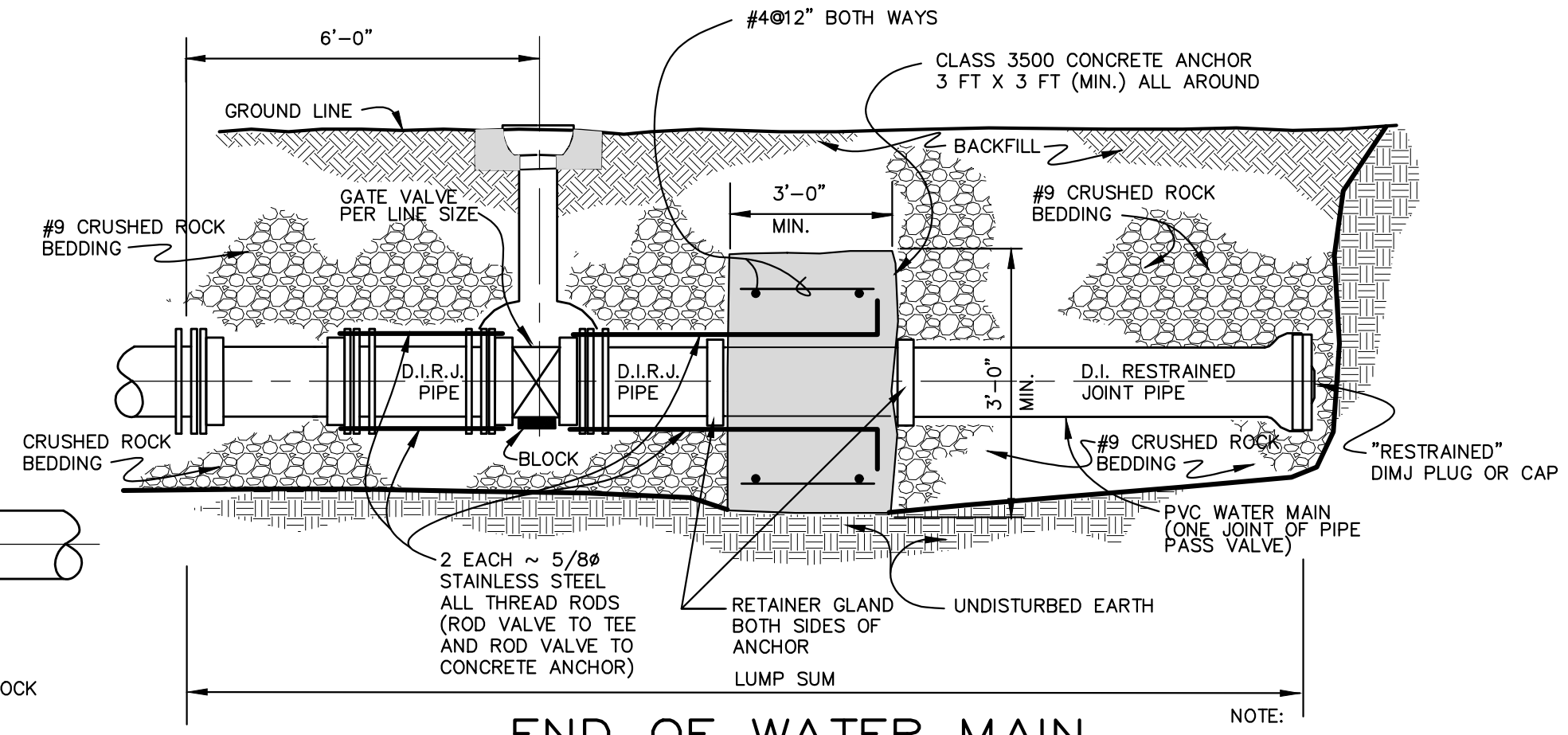
END OF WATER MAIN
CONCRETE ANCHOR DETAIL
NOT TO SCALE



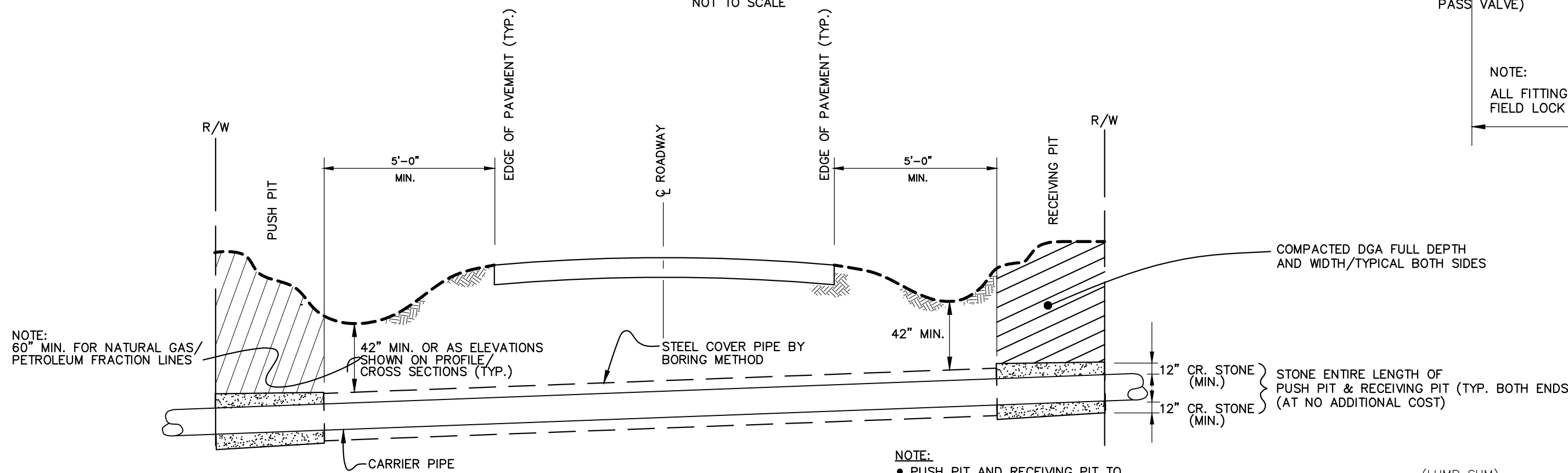
TYPICAL DETAIL OF CONCRETE
BLOCKING AT TEES & PLUGS
NOT TO SCALE



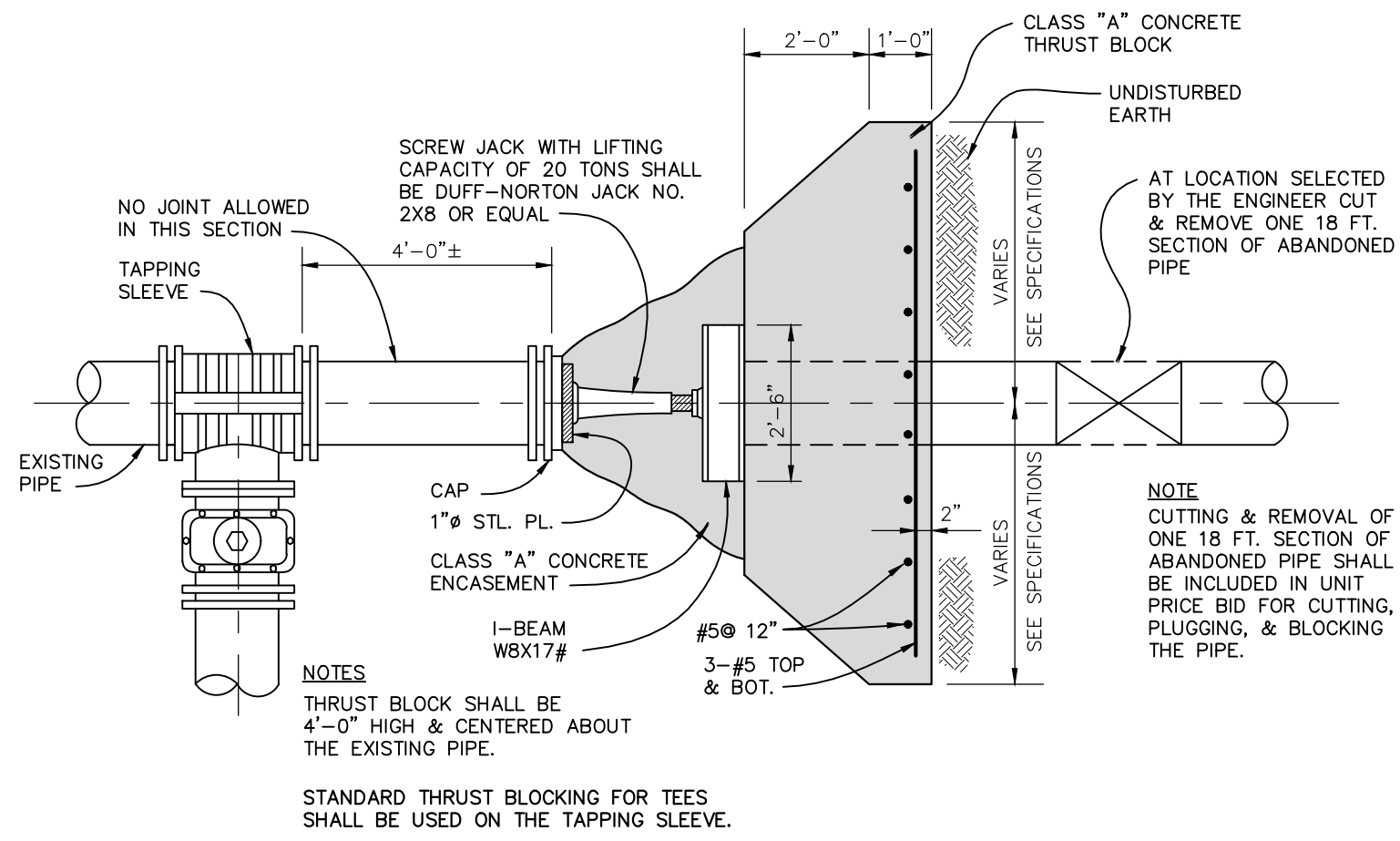
TYPICAL DETAIL OF CONCRETE
BLOCKING AT HORIZONTAL BENDS
NOT TO SCALE



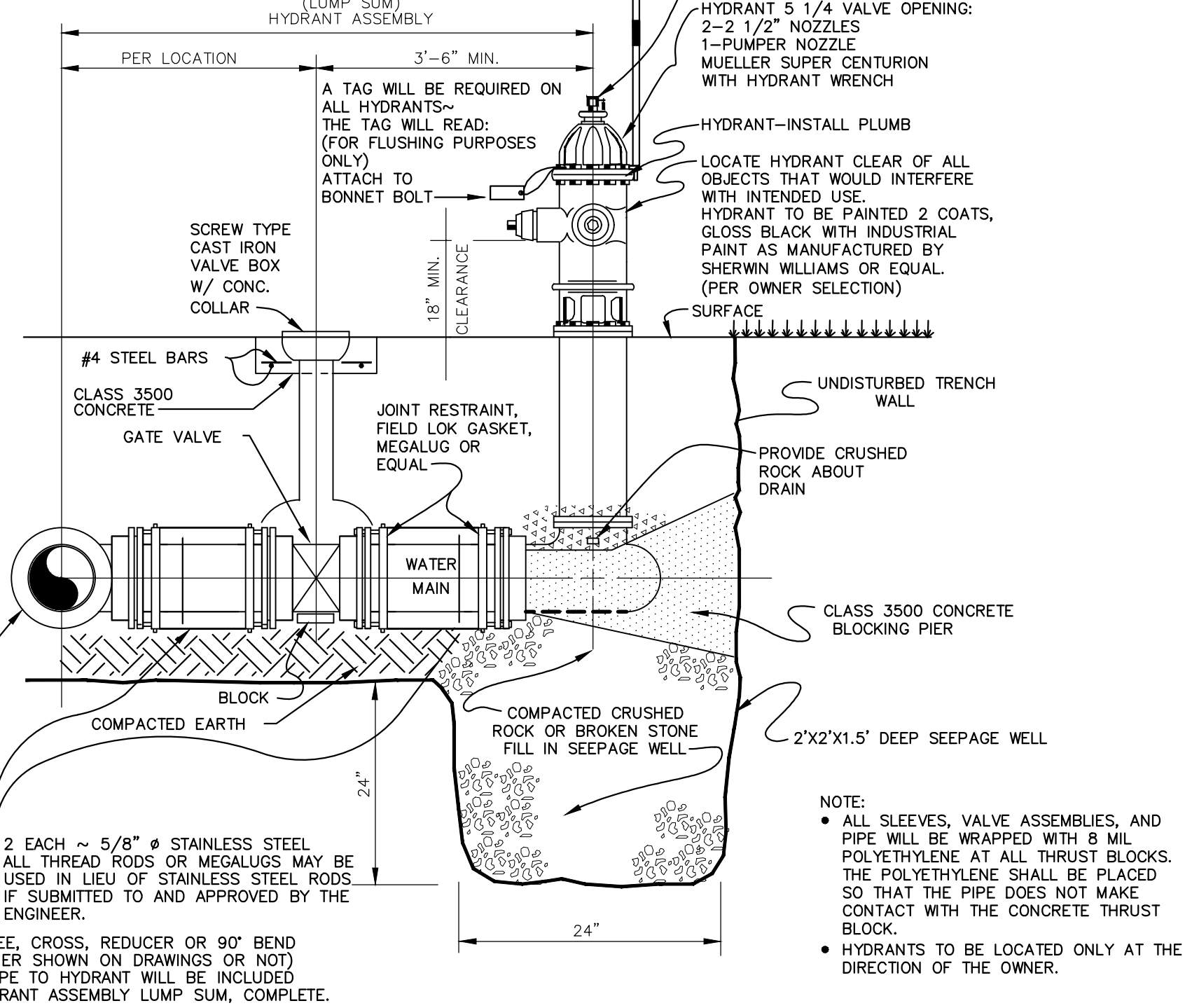
END OF WATER MAIN
CONCRETE ANCHOR DETAIL
NOT TO SCALE



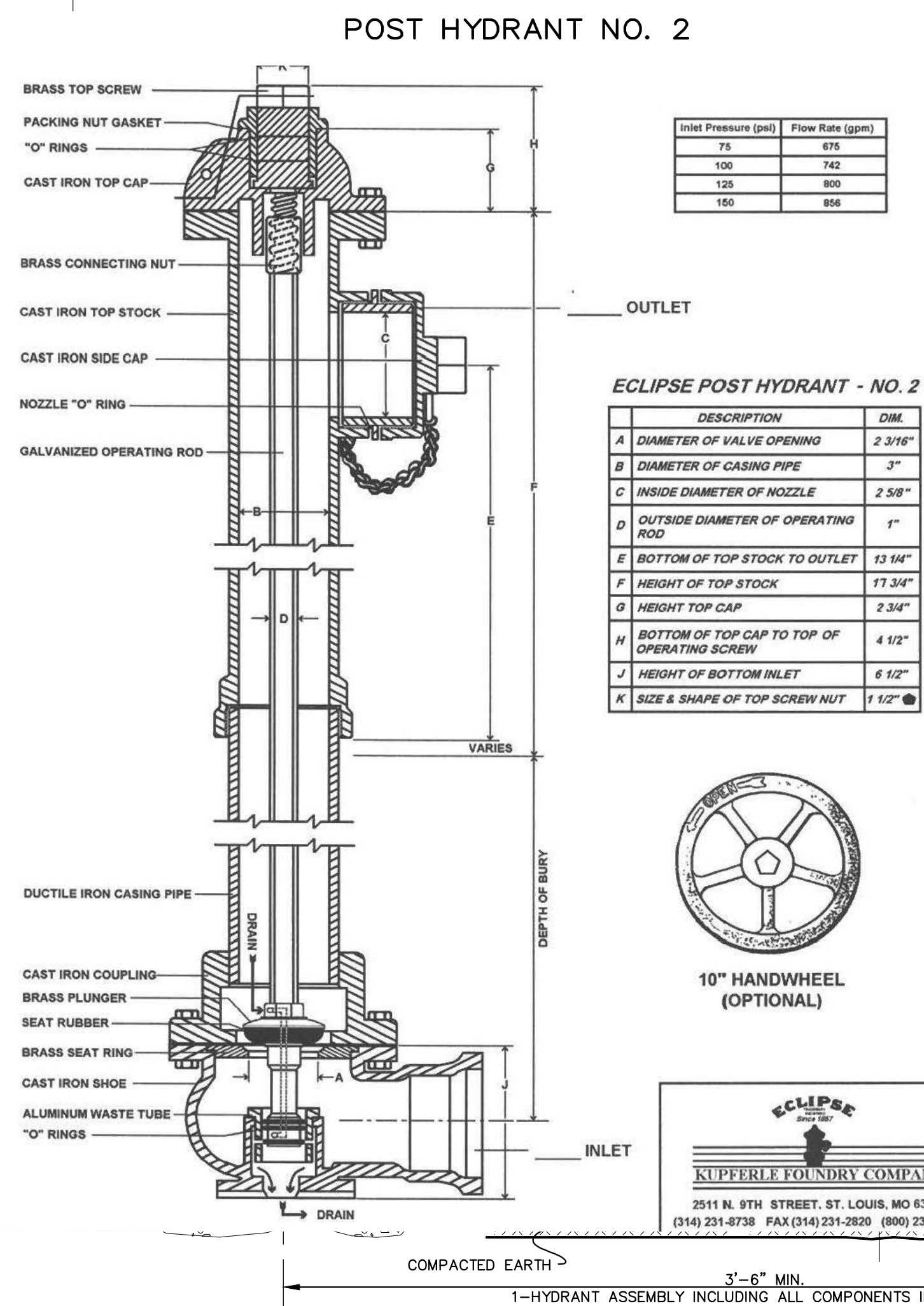
TYPICAL HIGHWAY BORING
DETAIL
NOT TO SCALE



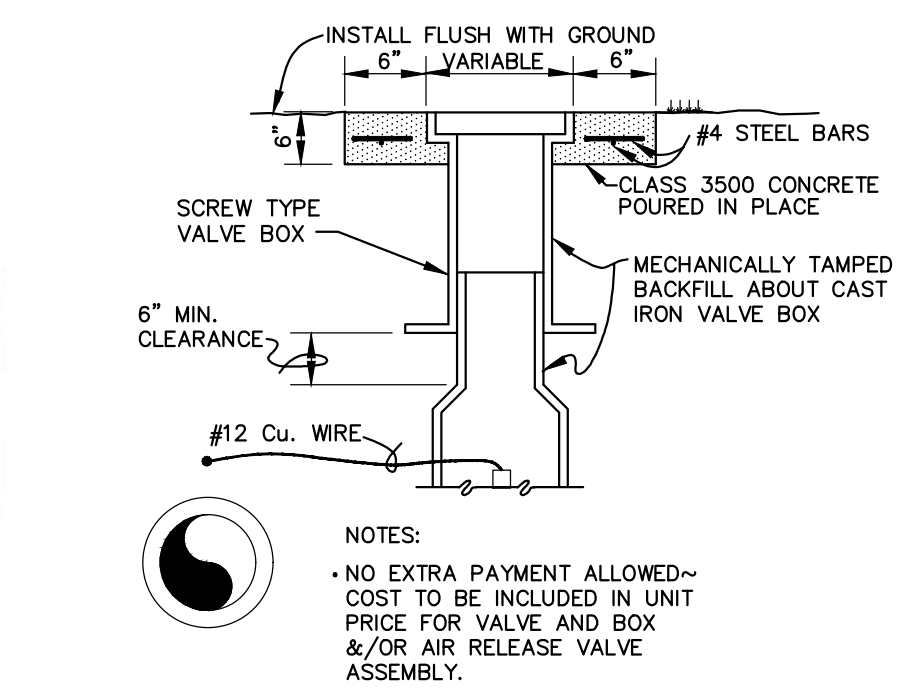
TYPICAL DETAIL
CUTTING & BLOCKING
AT TAP INTO EXISTING LINE
(LUMP SUM)
NOT TO SCALE



FLUSHING HYDRANT ASSEMBLY
(LUMP SUM)
NOT TO SCALE



ECLIPSE #2 WITH 2" SHOE
BLOW-OFF FLUSHING HYDRANT ASSEMBLY
(NON-FREEZING)
NOT TO SCALE



CONCRETE VALVE
BOX COLLAR
(REQUIRED ON ALL VALVES)
NOT TO SCALE

DESIGNER	MAL	DATE		BY		REVISION	
DRAWN	TEW						
CHECKED	JKR						
APPROVED	MAL						

GRAPHIC SCALE
SCALE: AS NOTED

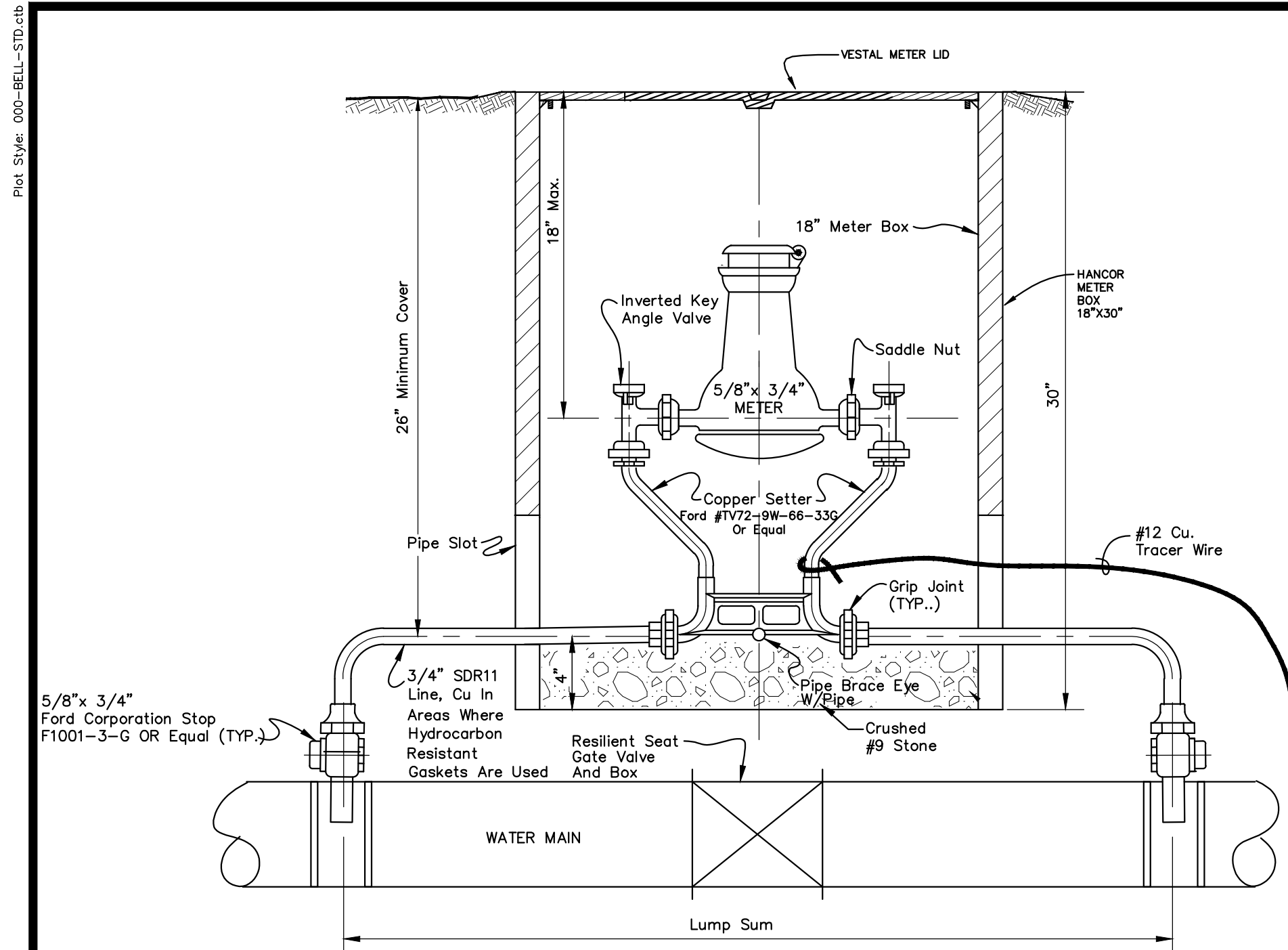
ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF BELL ENGINEERING AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION OF BELL ENGINEERING.
FACSIMILES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE ONLY IF SIGNED AND DATED BY THE REGISTRANT.

Lexington, KY (859) 278-5412
Hopkinsville, KY (270) 886-5466
Somerset, KY (606) 485-4011

MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

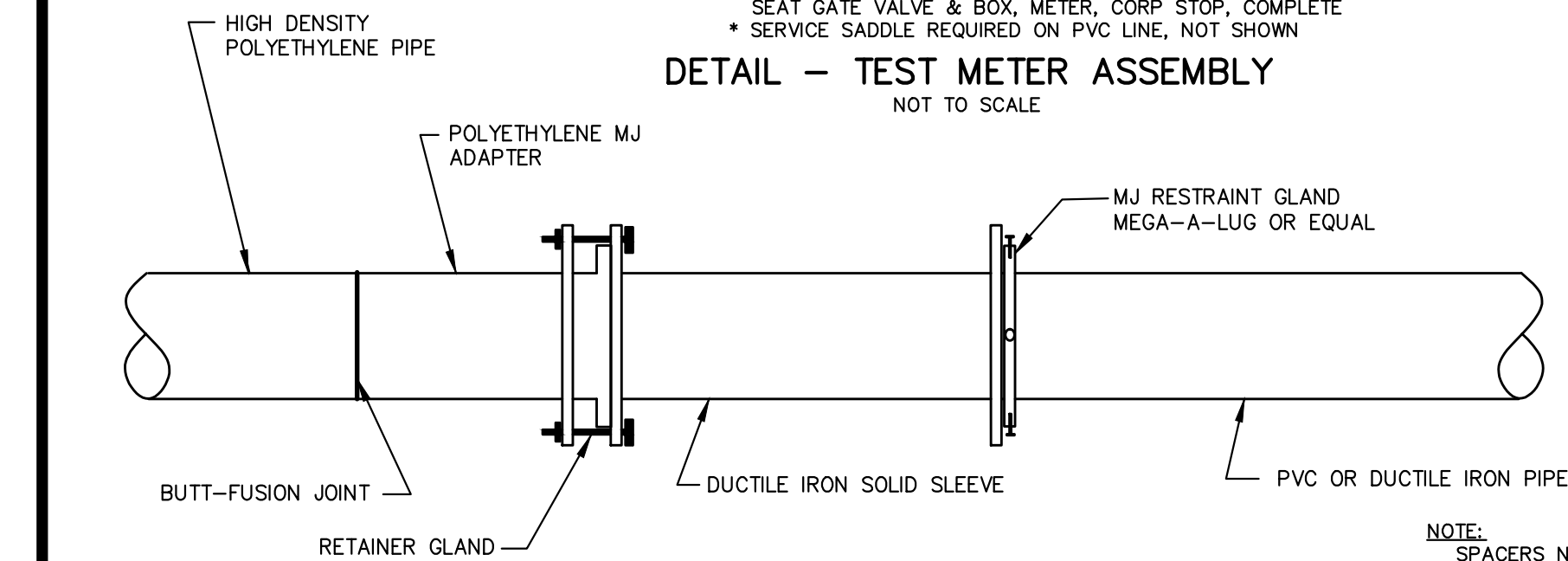
STANDARD DETAILS

DIVISION	-
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	D1 OF D2

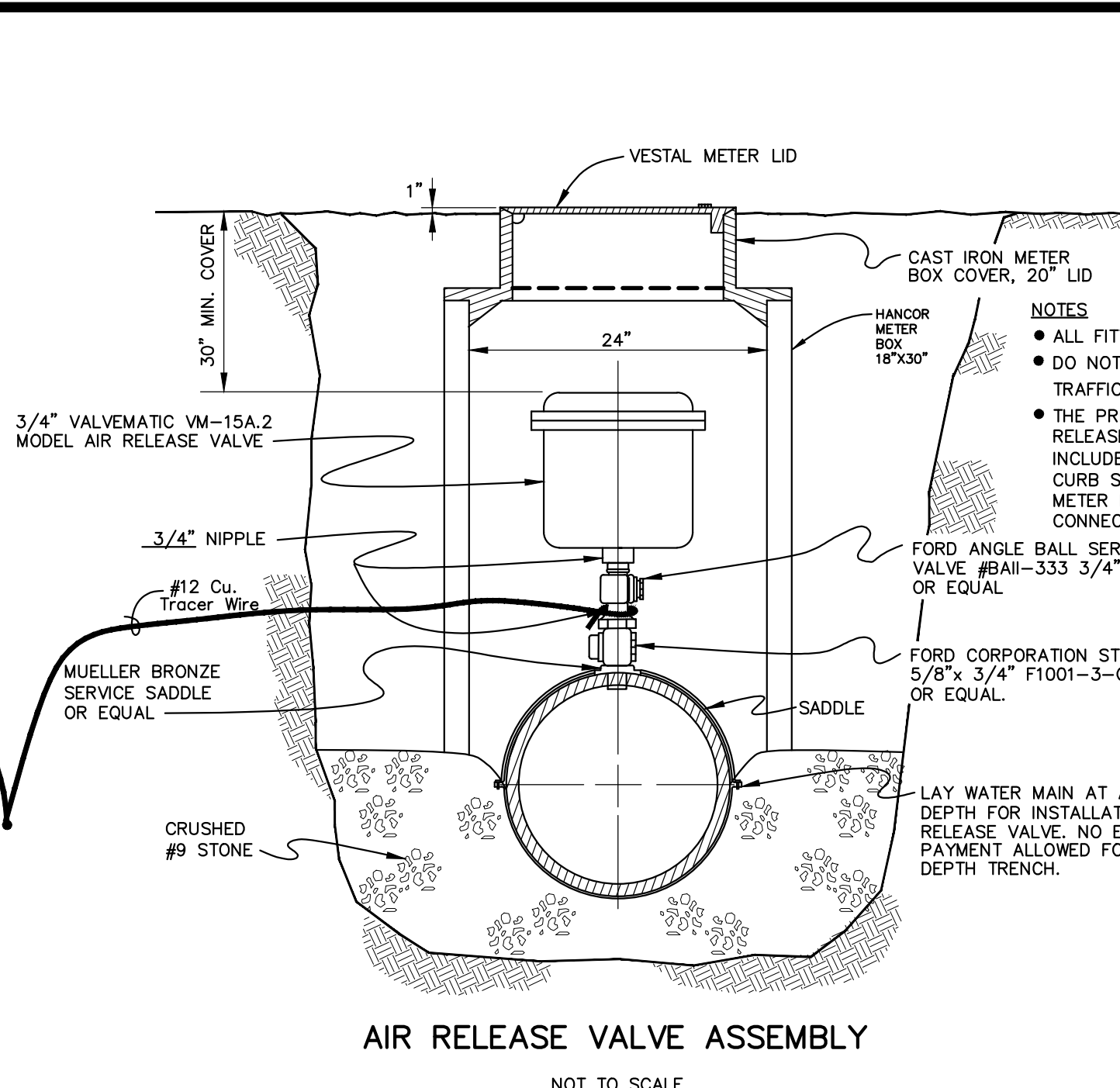


NOTE: * UNIT PRICE FOR TEST METER ASSEMBLY INCLUDES RESILIENT SEAT GATE VALVE & BOX, METER, CORP STOP, COMPLETE
* SERVICE SADDLE REQUIRED ON PVC LINE, NOT SHOWN

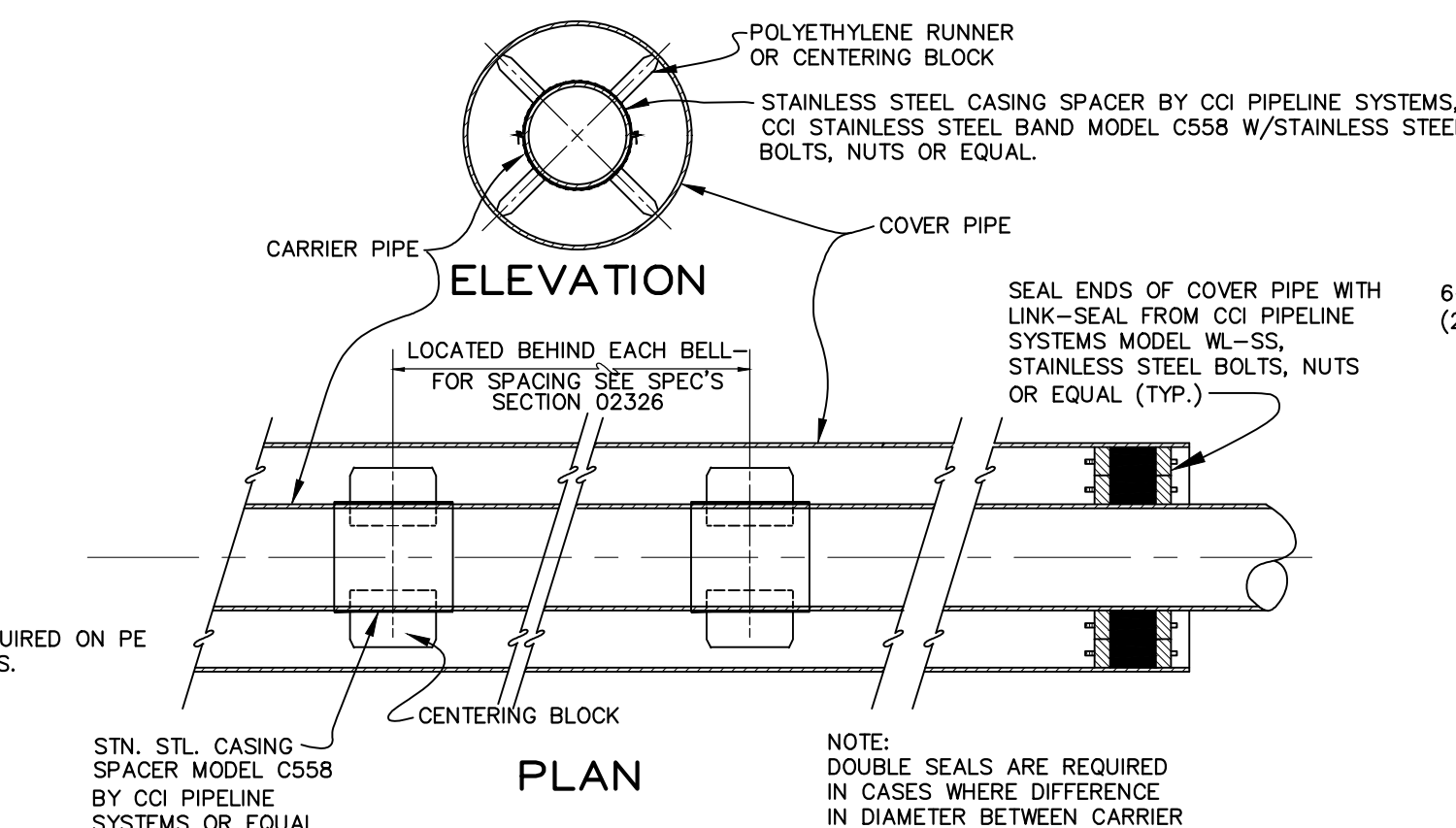
DETAIL - TEST METER ASSEMBLY
NOT TO SCALE



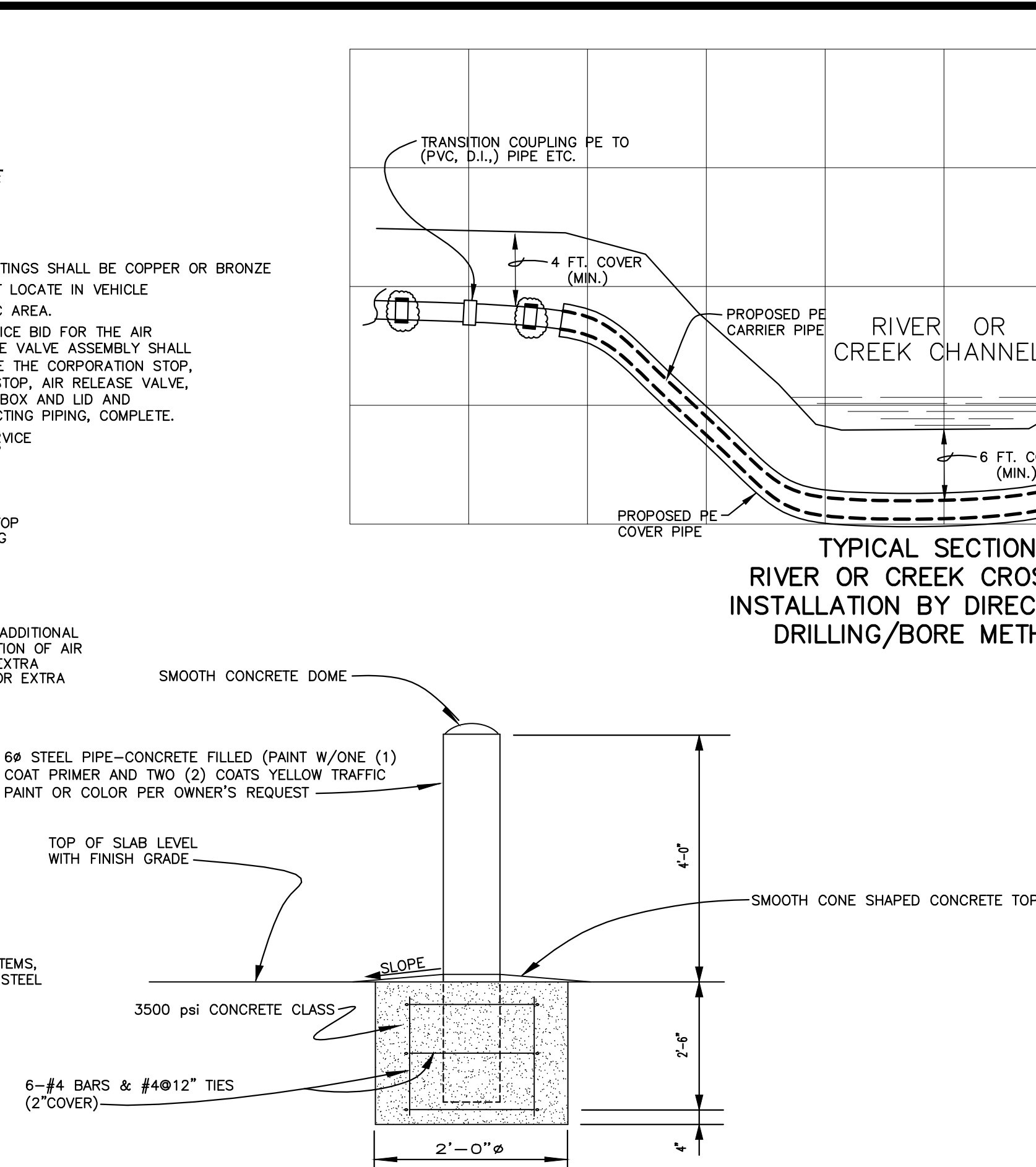
HDPE TO PVC/DUCTILE IRON PIPE TRANSITION DETAIL ON DIRECTIONAL BORES
NOT TO SCALE (TYPICAL EACH END)



AIR RELEASE VALVE ASSEMBLY
NOT TO SCALE

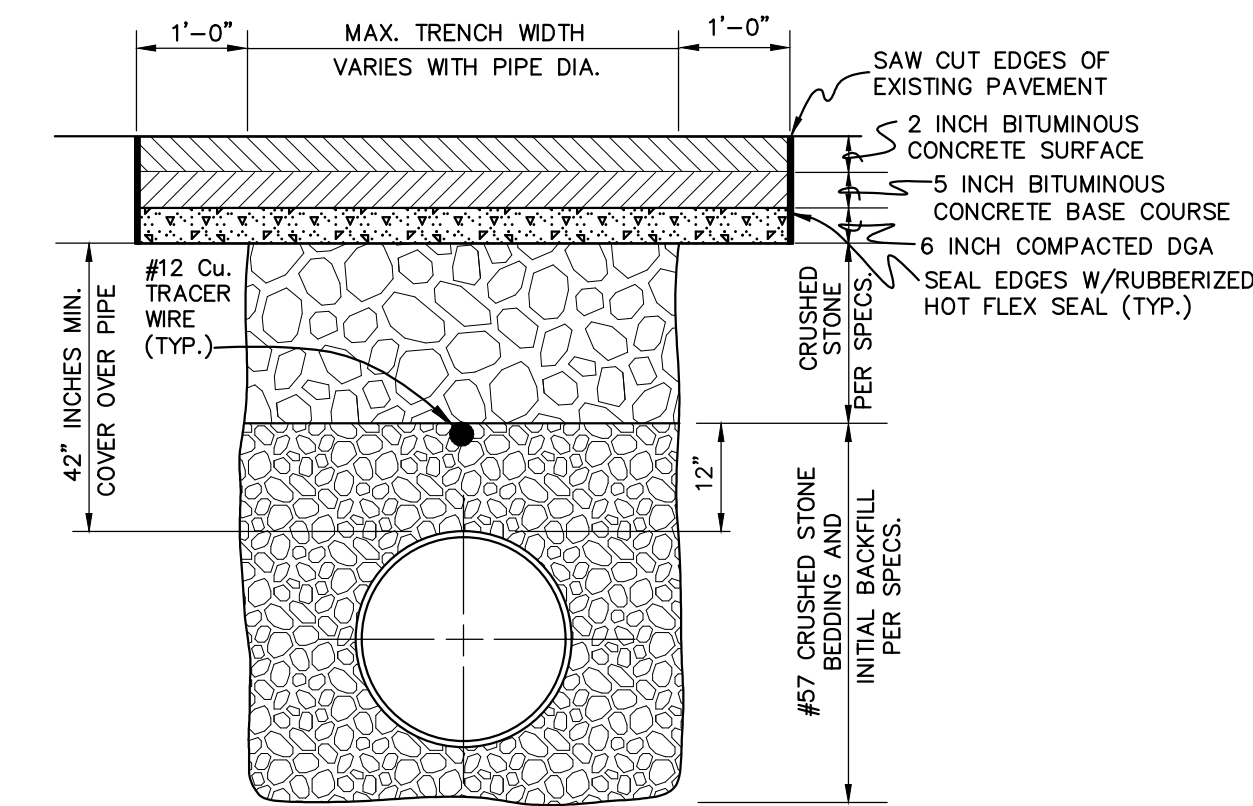


DETAIL CARRIER PIPE POSITIONING IN COVER PIPE
NOT TO SCALE



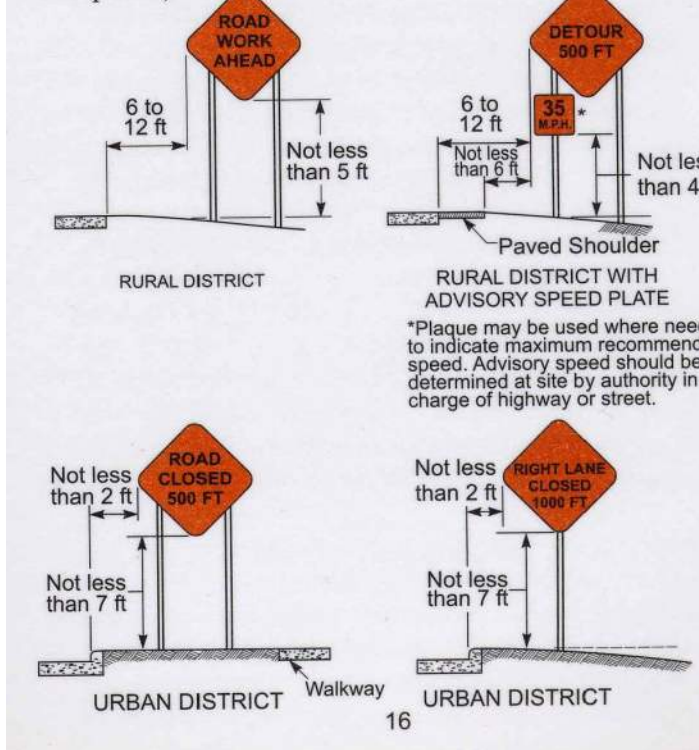
GUARD POST DETAIL
NOT TO SCALE

NOTE: NUMBER OF GUARD POST WILL VARY PER LOCATION. OWNER TO DETERMINE NUMBER AND LOCATION REQUIRED.



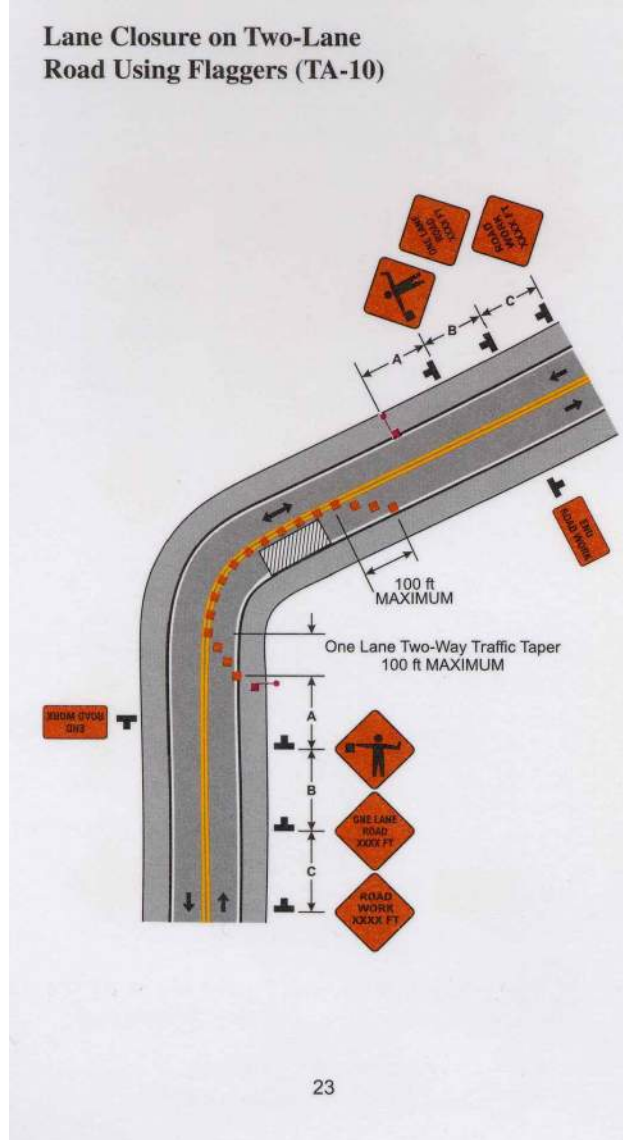
TRENCH DETAIL TYPICAL OPEN CUT CROSSING OF COUNTY ROADS
NOT TO SCALE

Sign Placement
Signs should normally be located on the right side of the roadway. Where special emphasis is needed, signs may be placed on both the left and right sides of the roadway. Signs mounted on barricades and barricade/sign combinations shall be crashworthy. Neither portable nor permanent sign supports should be located on sidewalks, bicycle lanes, or areas designated for pedestrian or bicycle traffic. Signs mounted on portable supports should not be used for a duration of more than 3 days (there are exceptions).



NOTE: ALL WORK TO BE DONE PER LATEST EDITION OF: GUIDELINES FOR TRAFFIC CONTROL IN WORK ZONES.

TRAFFIC CONTROL IN WORK ZONES



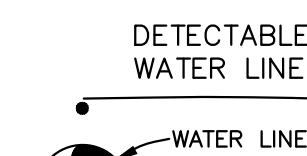
MATERIALS:

TEST STATION: LEXAN POLYCARBONATE HIGH IMPACT PLASTIC

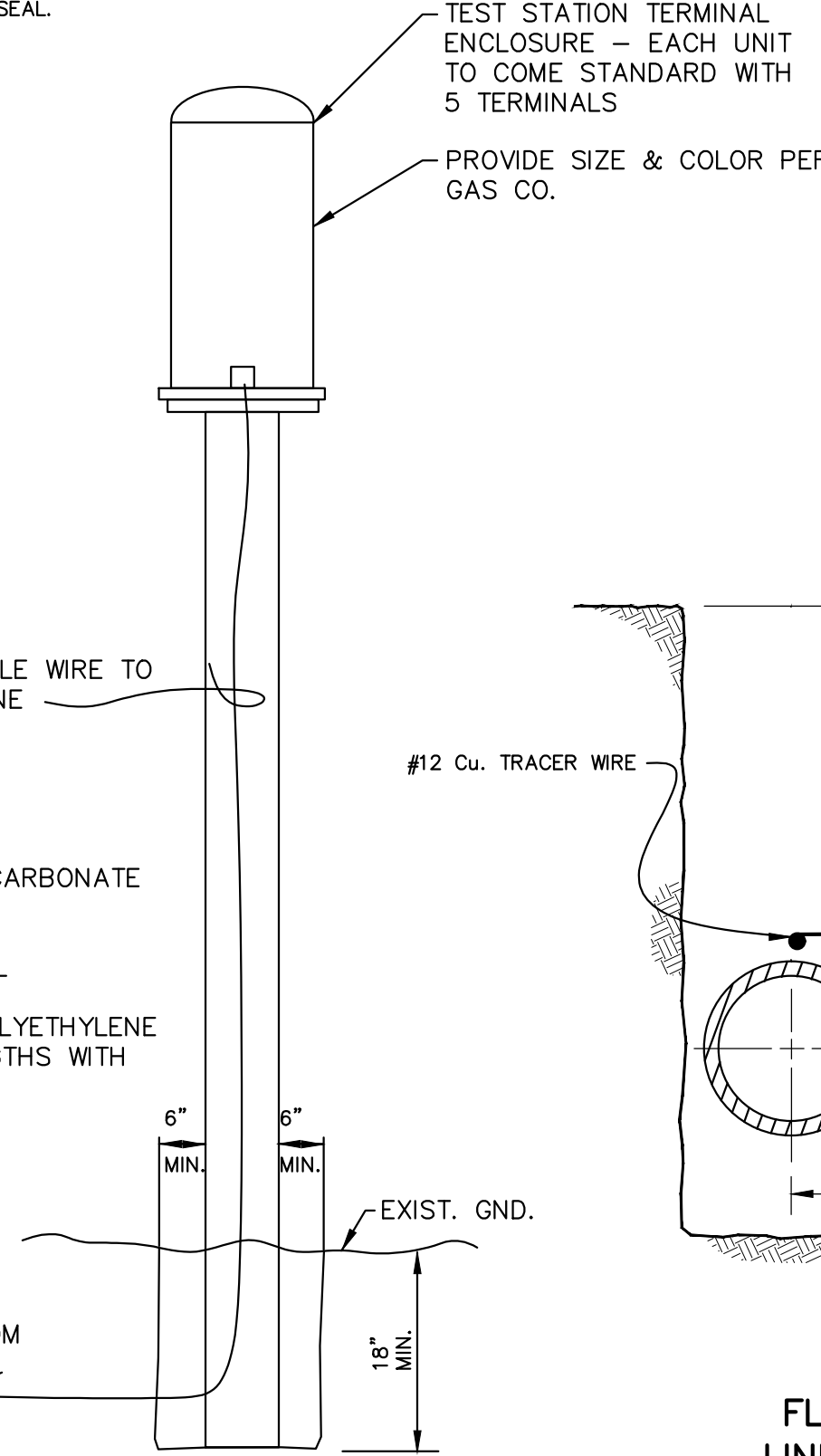
HARDWARE: STAINLESS STEEL

CONDUIT: UV-STABILIZED POLYETHYLENE PREDRILLED IN 6-FOOT LENGTHS WITH ANCHOR

CALL MRC. CO. 614-276-5468 FOR MATERIALS SUPPLIED TO GAS CO.



DETAIL GAS TEST STATION
NOT TO SCALE

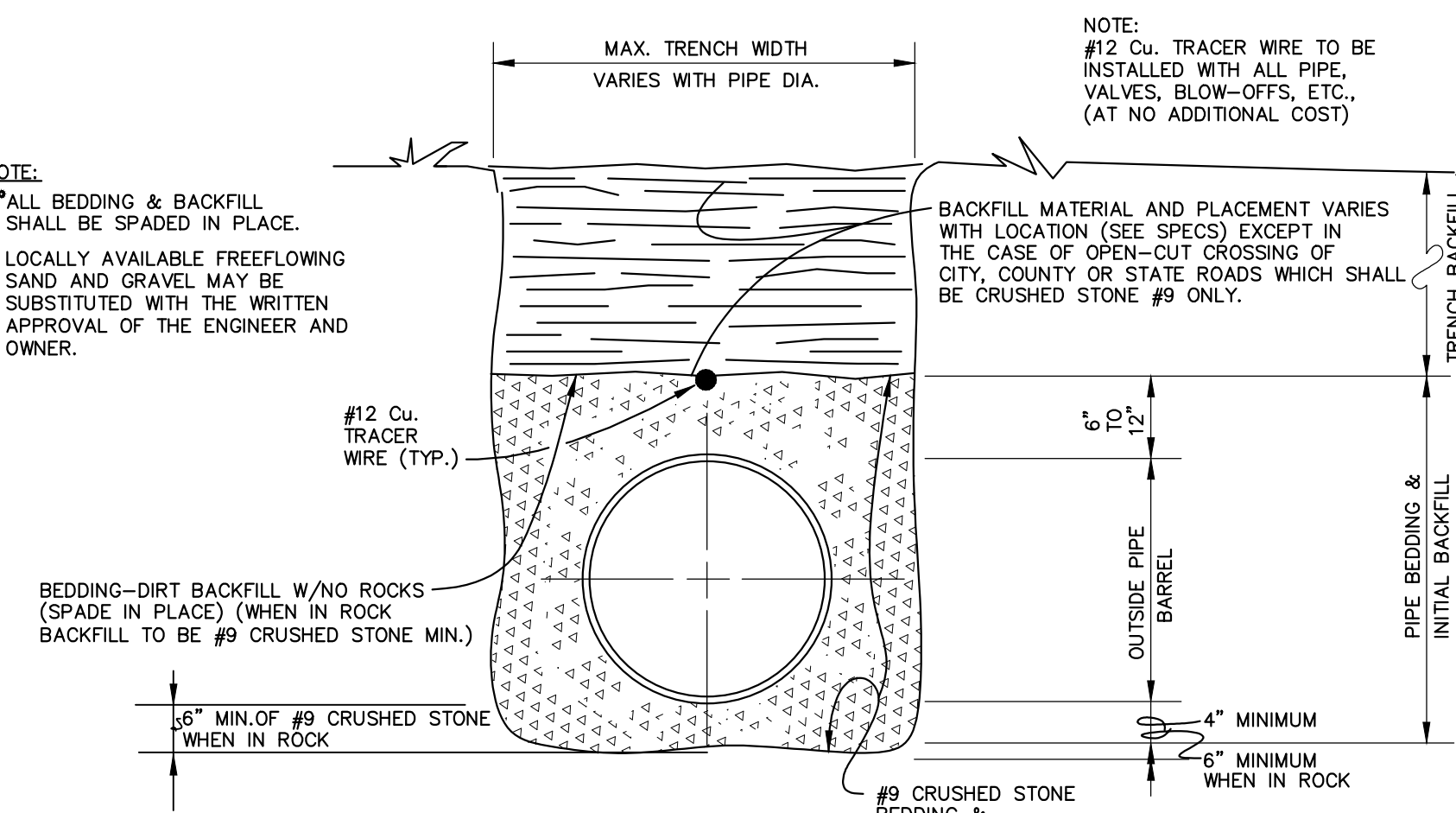


DETAIL FLEXIBLE FIBERGLASS LINE LOCATOR MARKER
NOT TO SCALE

(PROVIDE OWNER TWO (2) ADDITIONAL LINE LOCATOR MARKERS AT NO ADDITIONAL COST)



NOTE: *ALL BEDDING & BACKFILL SHALL BE SPADED IN PLACE. LOCALLY AVAILABLE FREEFLOWING SAND AND GRAVEL MAY BE SUBSTITUTED WITH THE WRITTEN APPROVAL OF THE ENGINEER AND OWNER.



DETAIL BEDDING & BACKFILL WATER MAIN INSTALLATION
NOT TO SCALE

DESIGNER	MAL	DATE		BY		REVISION	
DRAWN	TEW						
CHECKED	JKR						
APPROVED	MAL						

GRAPHIC SCALE
SCALE: AS NOTED

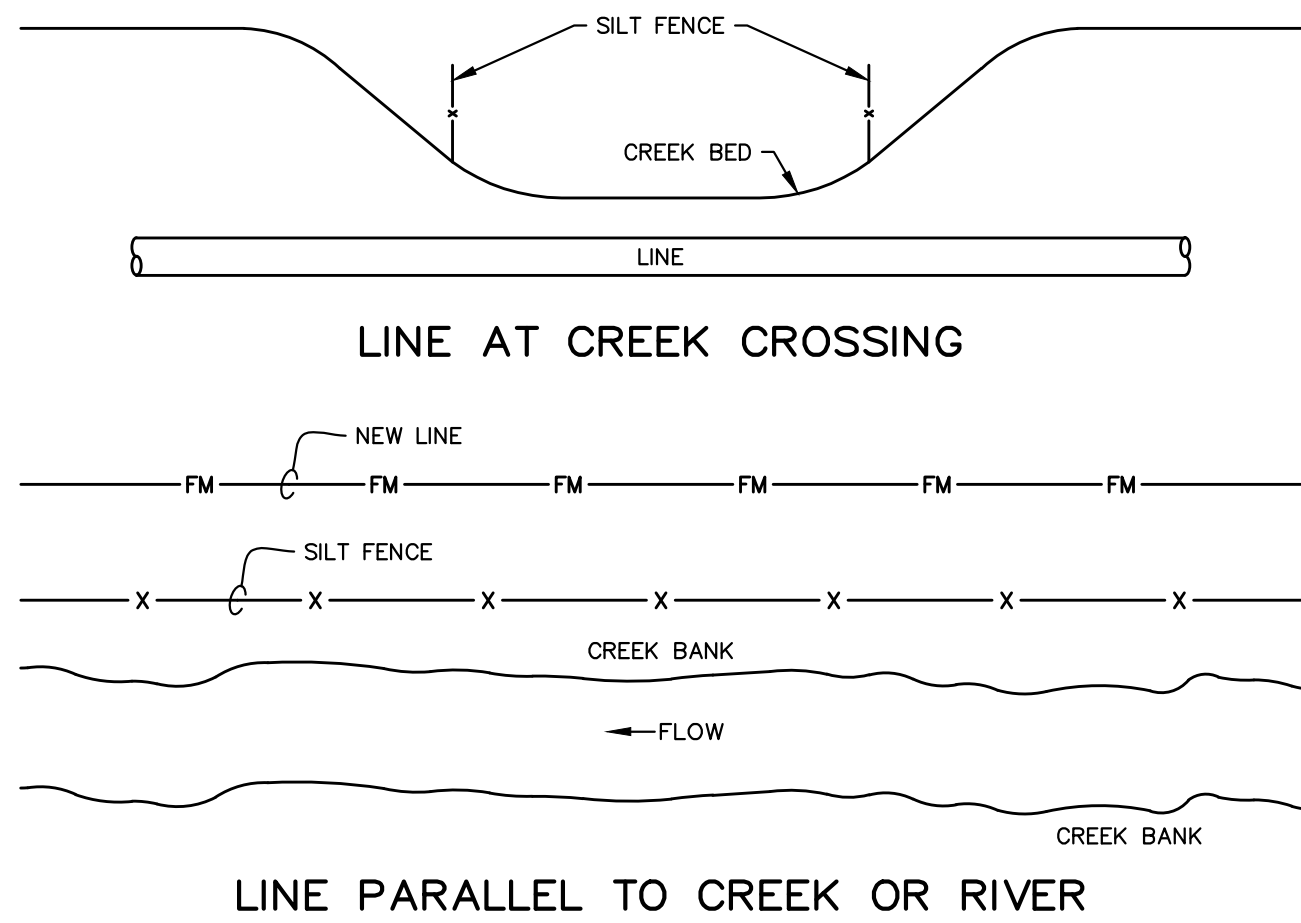
ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF BELL ENGINEERING AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION OF BELL ENGINEERING. FACSIMILES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE ONLY IF SIGNED AND DATED BY THE REGISTRANT.

Lexington, KY (859) 278-5412
Hopkinsville, KY (270) 886-5466
Somerset, KY (606) 485-4011

MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

STANDARD DETAILS

DIVISION	-
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	D2 OF D2



NOTE TO CONTRACTOR:

- CONTRACTOR TO MEET OR EXCEED THE NATIONWIDE PERMIT NO. 12 AS SHOWN IN DEC. 13, 1996 OR LATEST FEDERAL REGISTER, FINAL NOTICE OF ISSUANCE, REISSUANCE & MODIFICATION OF NATIONWIDE PERMITS (61 FR 65874).
- CONTRACTOR TO MEET CURRENT REQUIREMENTS AS OUTLINED IN LATEST NOTICE OF INTENT (NOI) FOR STORM WATER DISCHARGE GENERAL REQUIREMENTS AS DESCRIBED BY:

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
300 SOWER BLVD., (2ND FLOOR)
FRANKFORT, KENTUCKY
PH. (502)564-4245

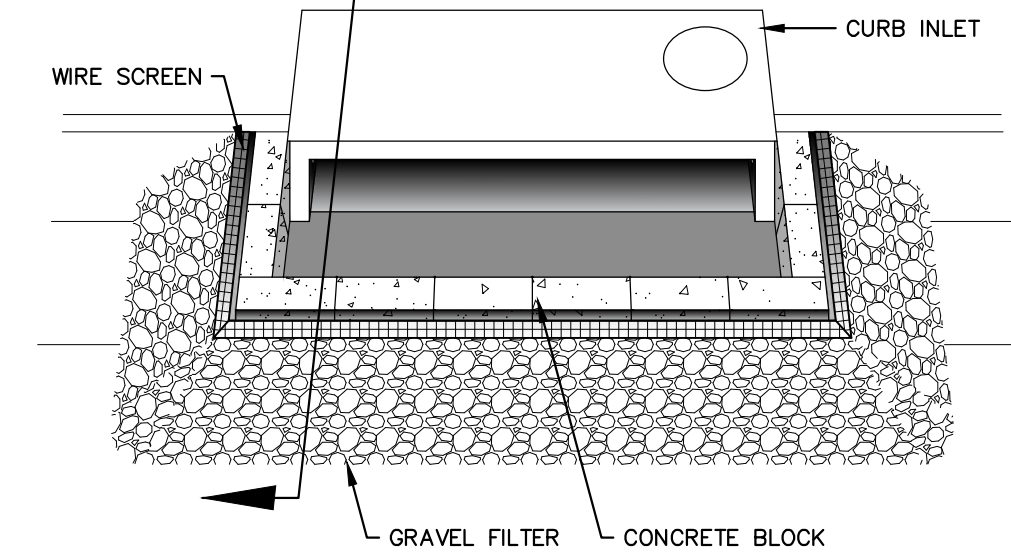
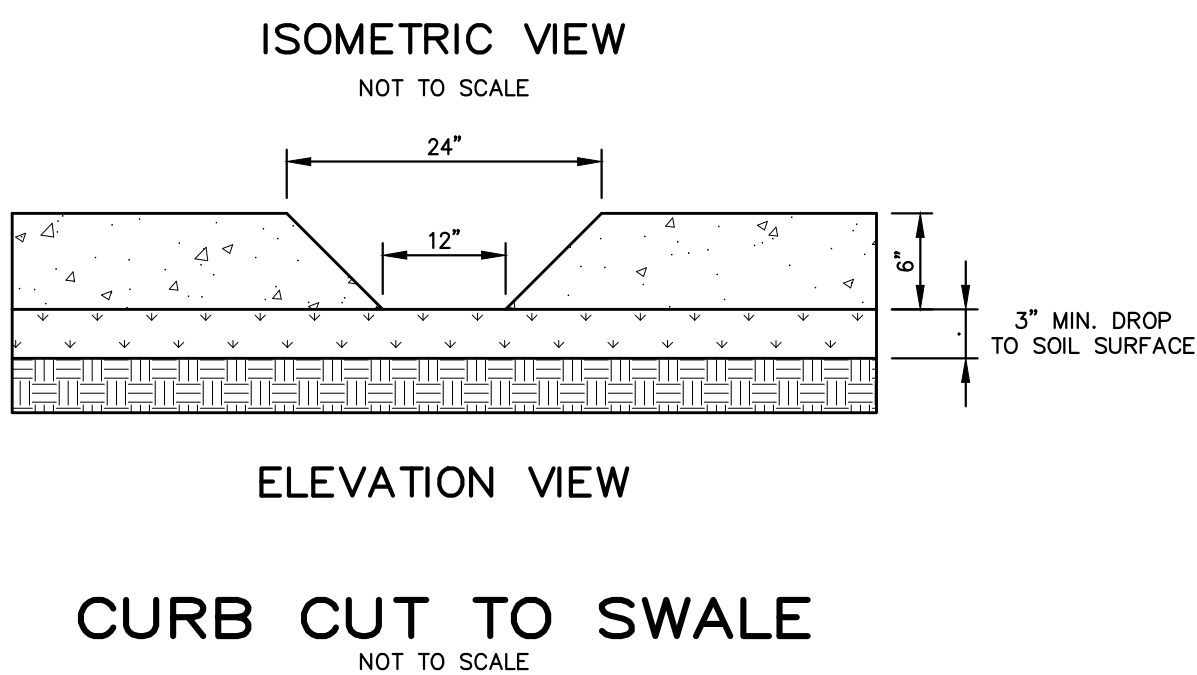
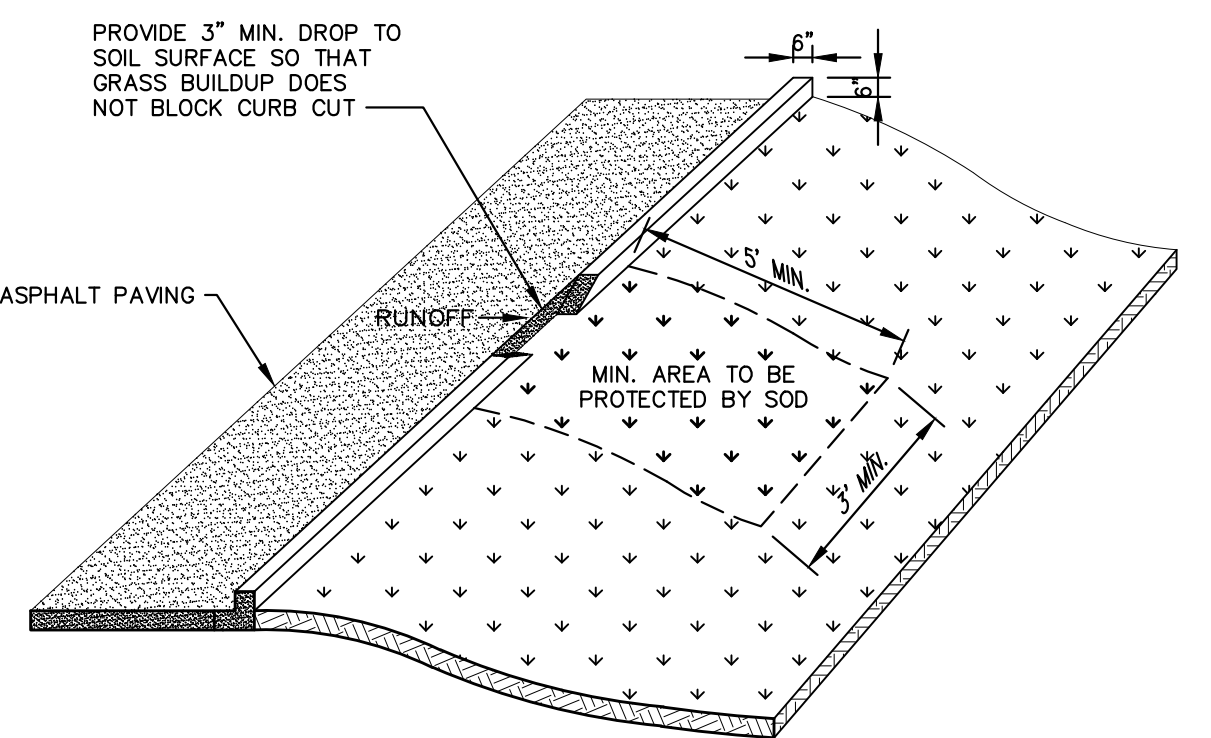
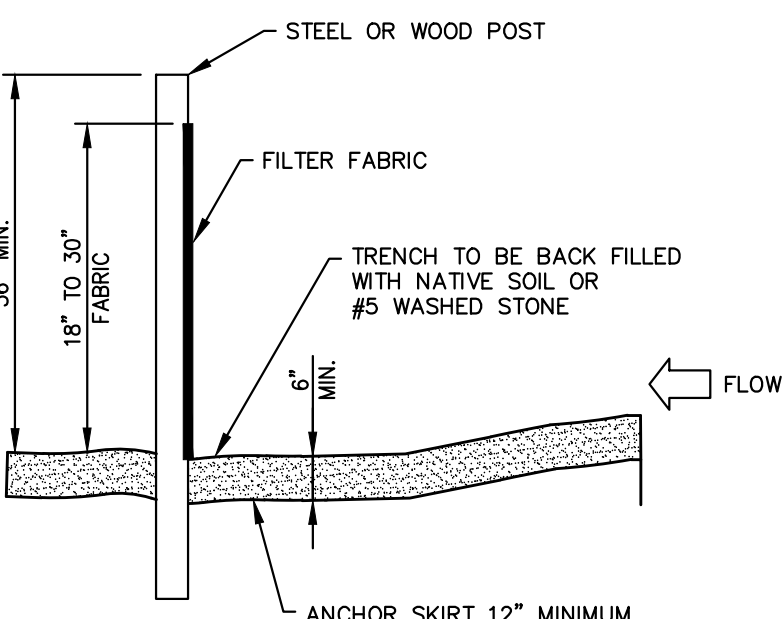
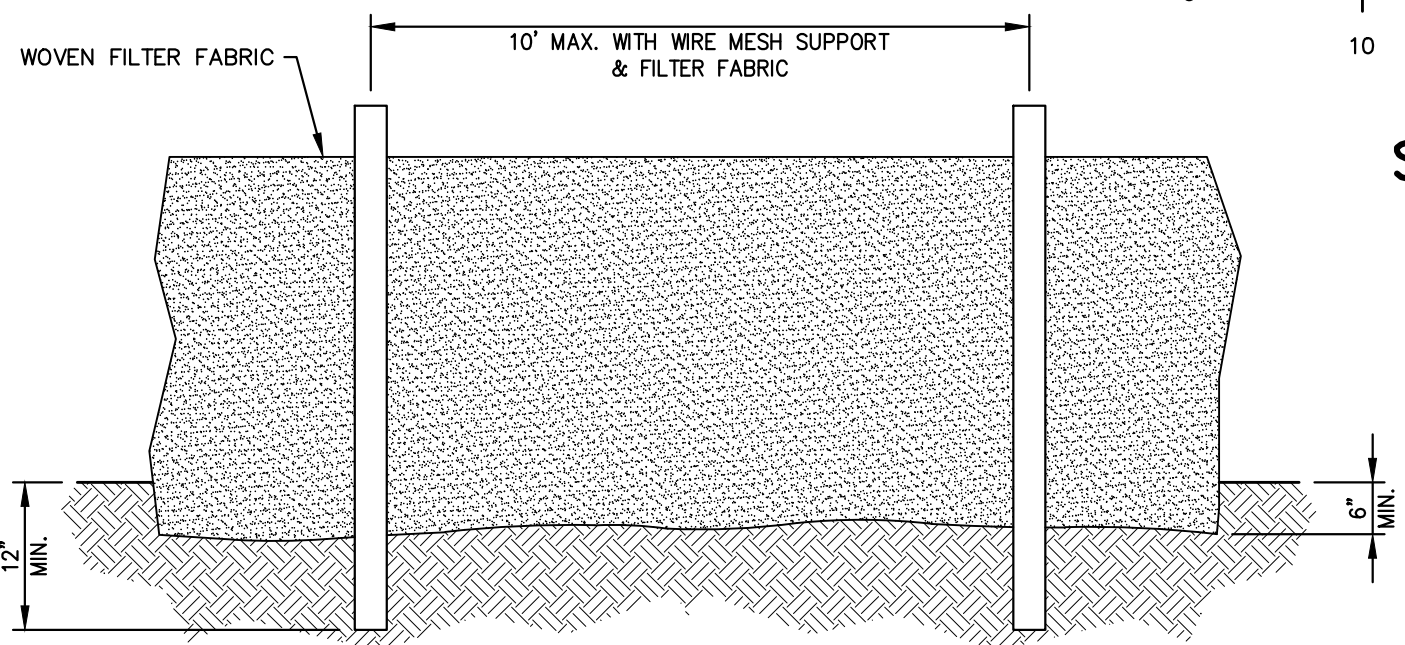
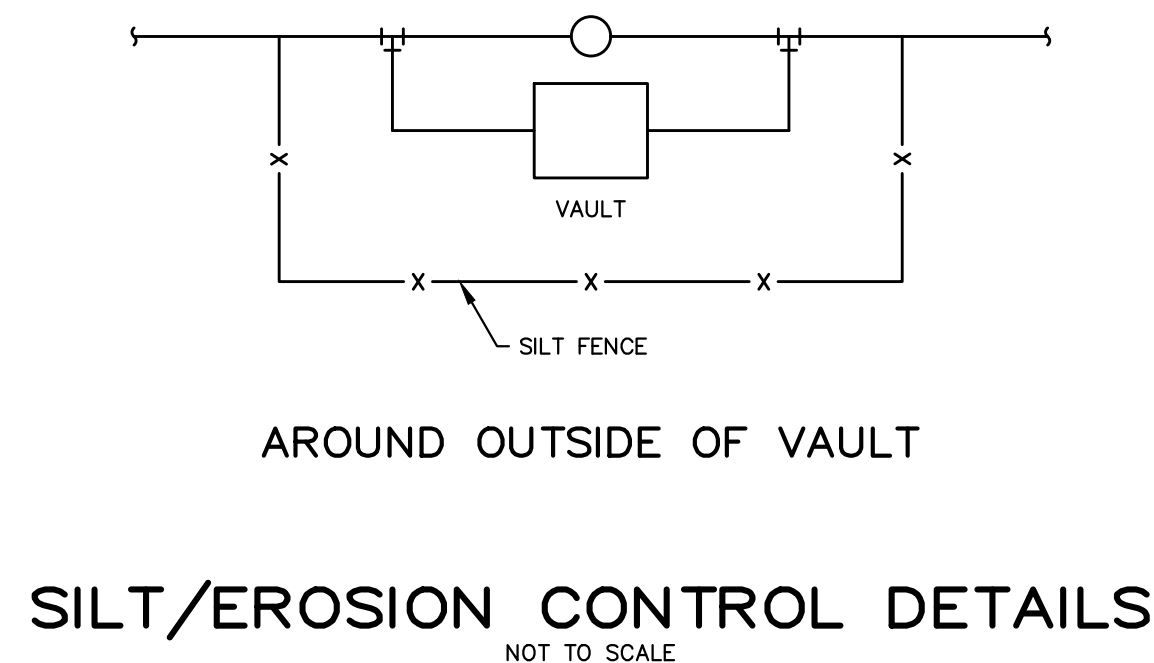
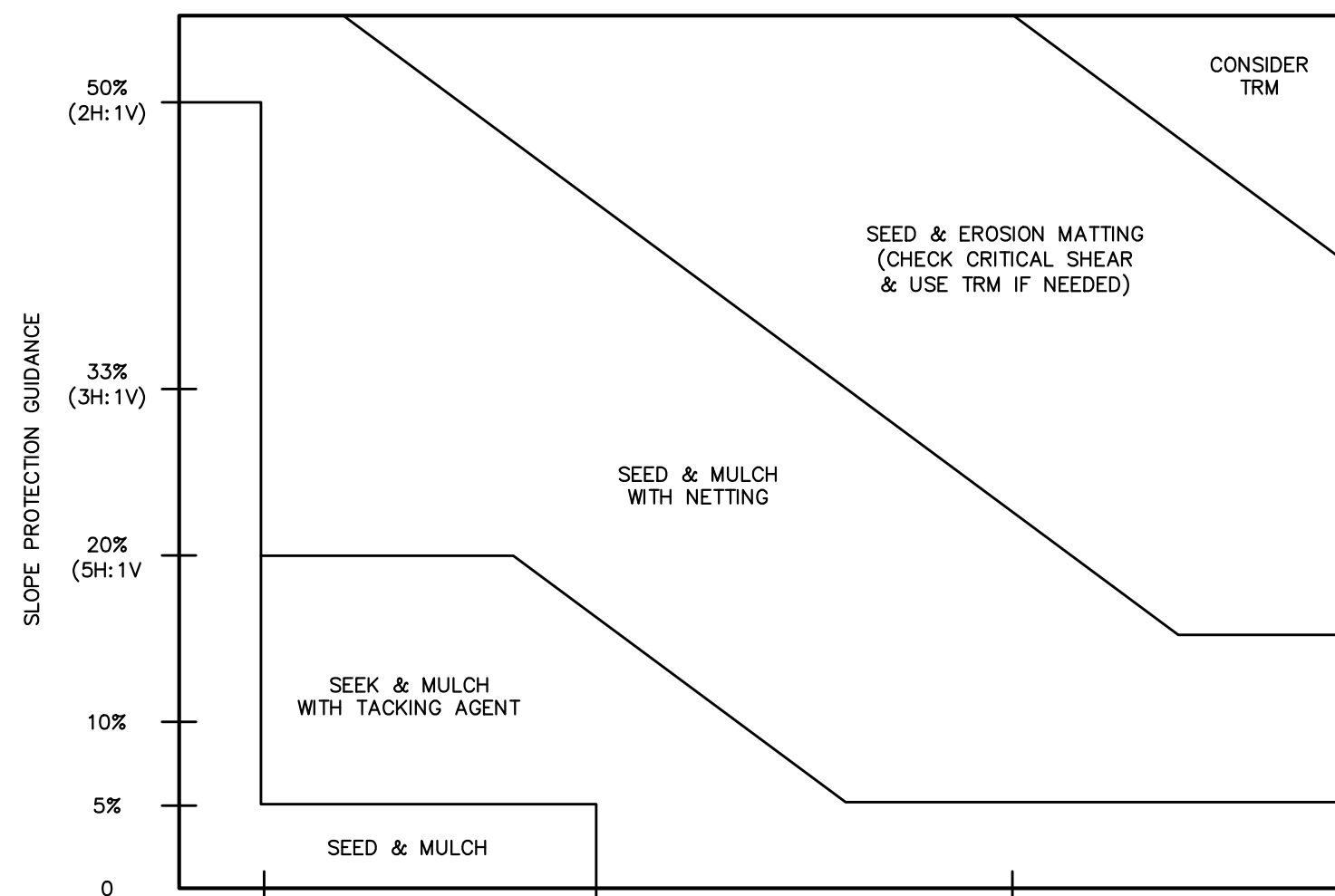
- CONTRACTOR TO MEET/EXCEED 401 CLEAN WATER ACT GENERAL CERTIFICATION, NATIONWIDE PERMIT NO. 12, UTILITY LINE BACKFILL & BEDDING AS OUTLINED BY THE KENTUCKY NATURAL RESOURCES & ENVIRONMENTAL PROTECTION CABINET.

- CONTRACTOR TO MEET/EXCEED TEMPORARY SEEDING REQUIREMENTS OF DIVISION OF WATER WHICH REQUIRE ALL DISTURBED AREAS TO BE TEMPORARILY SEEDED WITHIN 14 DAYS AFTER CONSTRUCTION. FOR ADDITIONAL INFORMATION CONTACT:

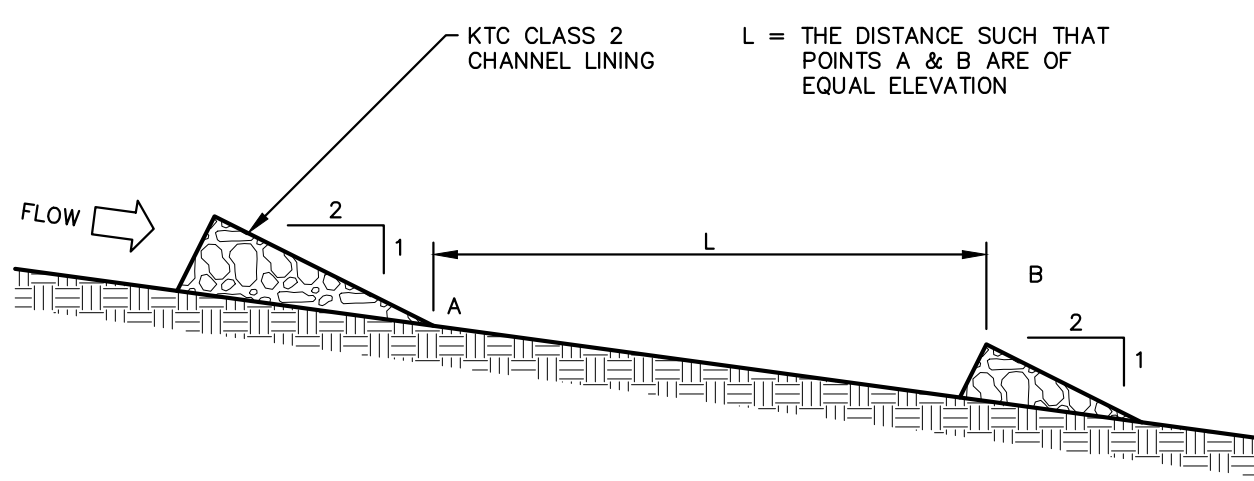
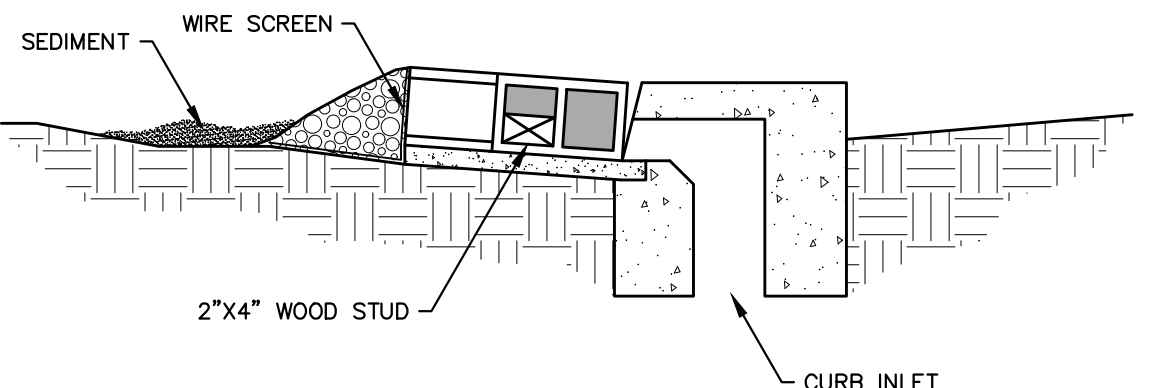
DIVISION OF WATER
FRANKFORT, KENTUCKY

TYPICAL ALL DETAILS:

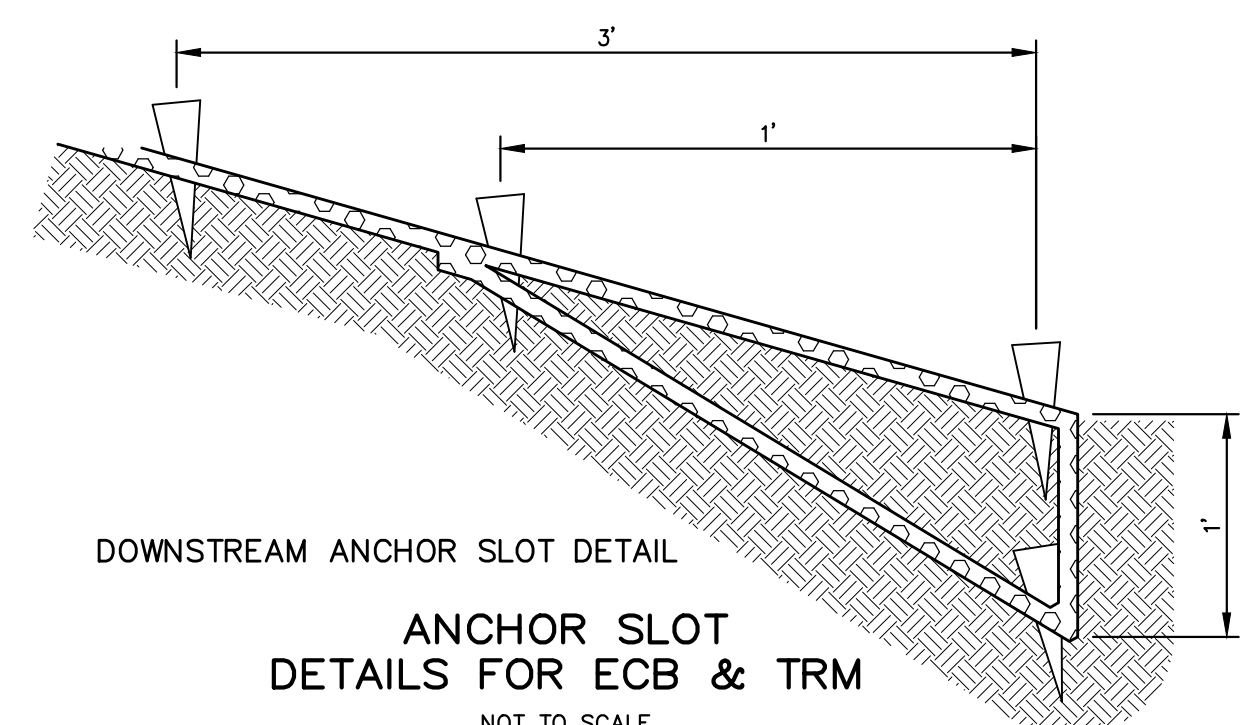
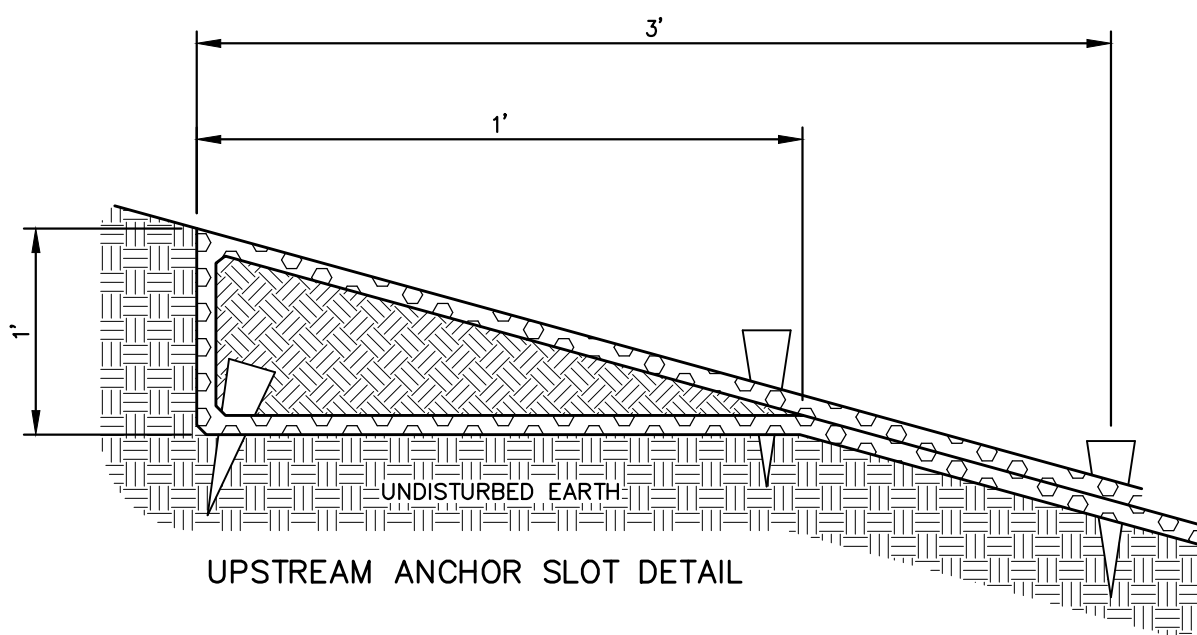
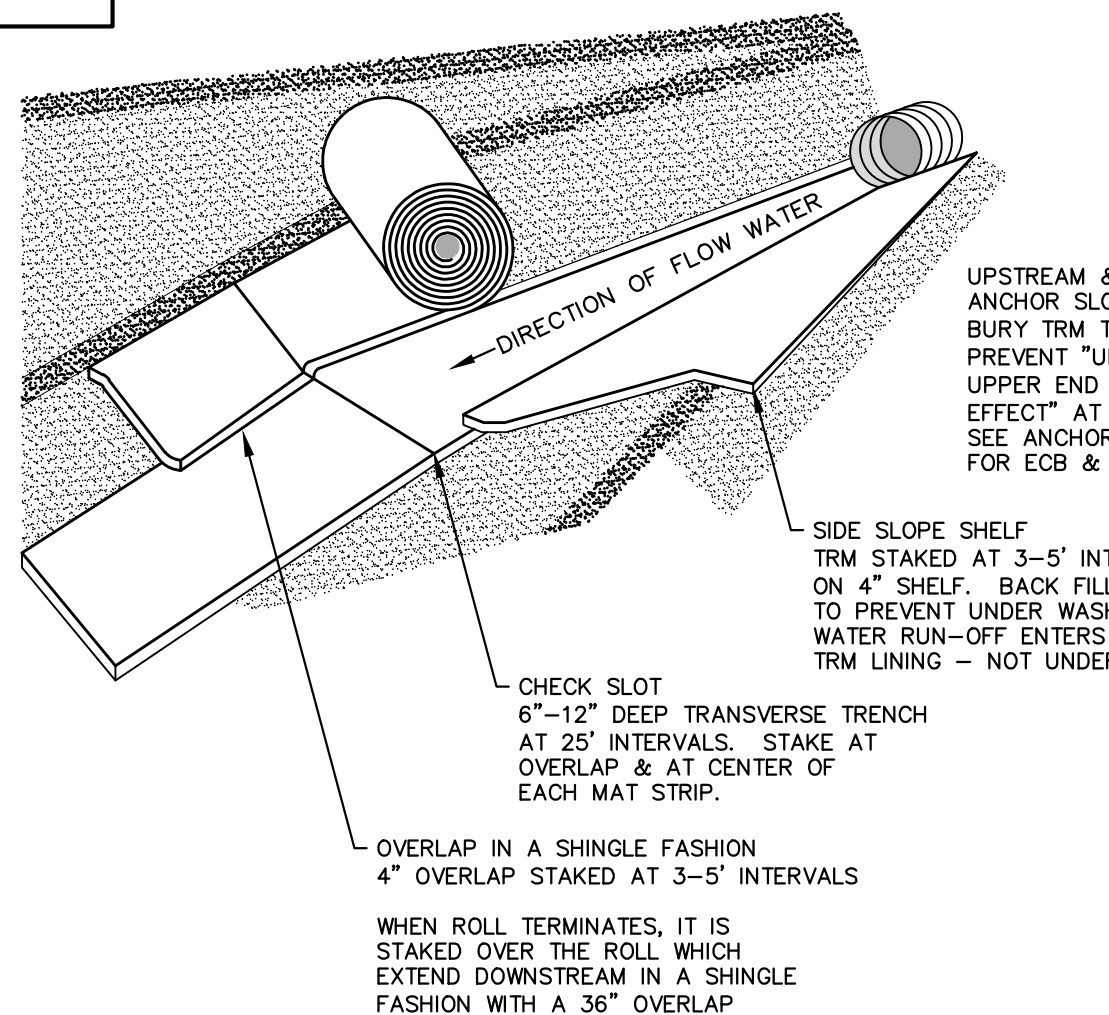
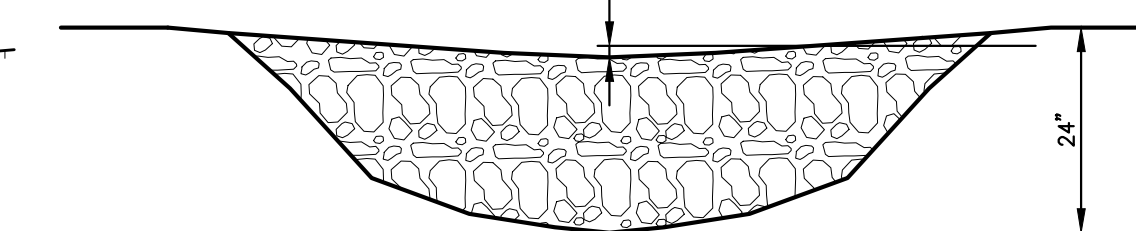
- MINIMUM OR PER LATEST DEPARTMENT OF WATER & DEPARTMENT OF HIGHWAYS REGULATIONS.
- AT NO ADDITIONAL COST



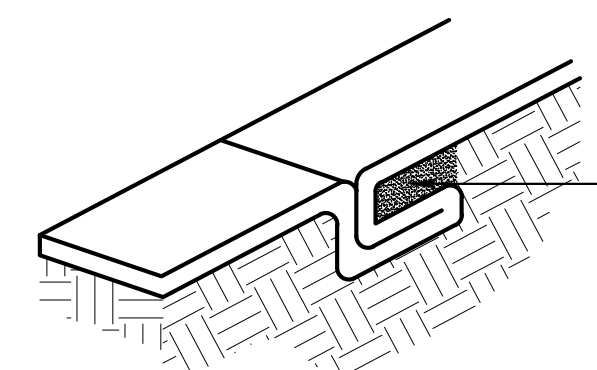
- TWO CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ABUTTING THE CURB AT EITHER SIDE OF THE INLET OPENING. A 2"x4" STUD SHALL BE CUT & PLACED THROUGH THE OUTER HOLES OF THE SPACER BLOCKS TO BRACE THE FRONT BLOCKS. FRONT BLOCKS ARE PLACED ON THEIR SIDES ACROSS THE INLET & ABUTTING THE SPACER BLOCK.
- HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" OPENINGS SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE BLOCKS TO PREVENT FILTER STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCK.
- WASHED STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCKS.
- CHECK DEVICE AFTER EACH RAIN, REPLACED WASHED STONE IF IT CLOGS WITH SEDIMENT.



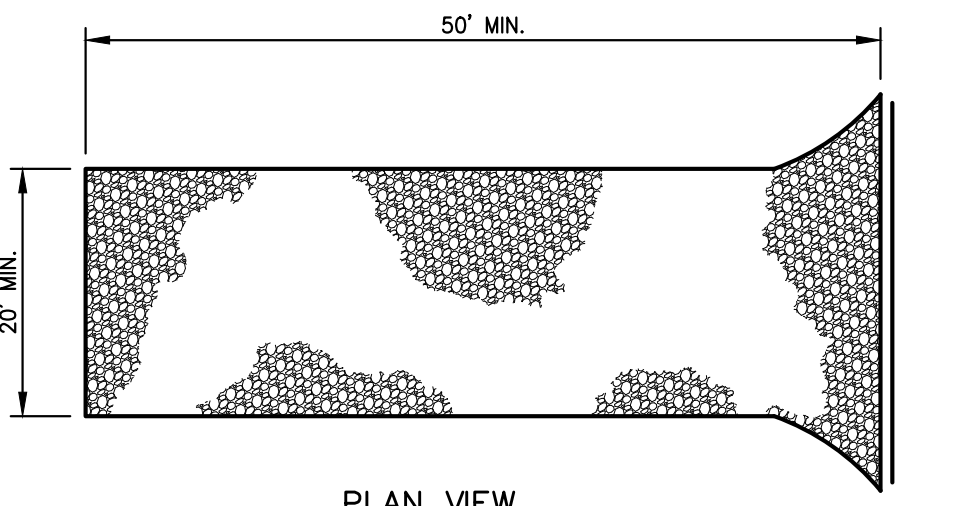
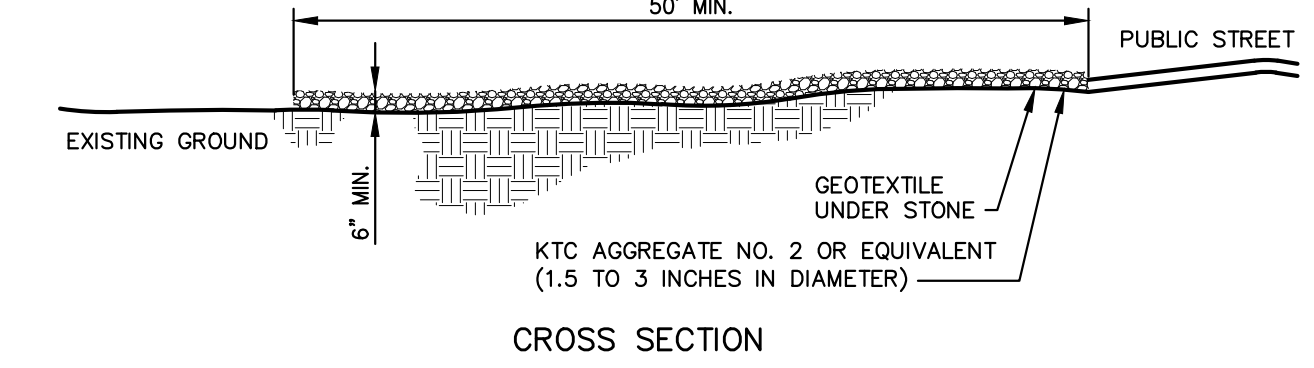
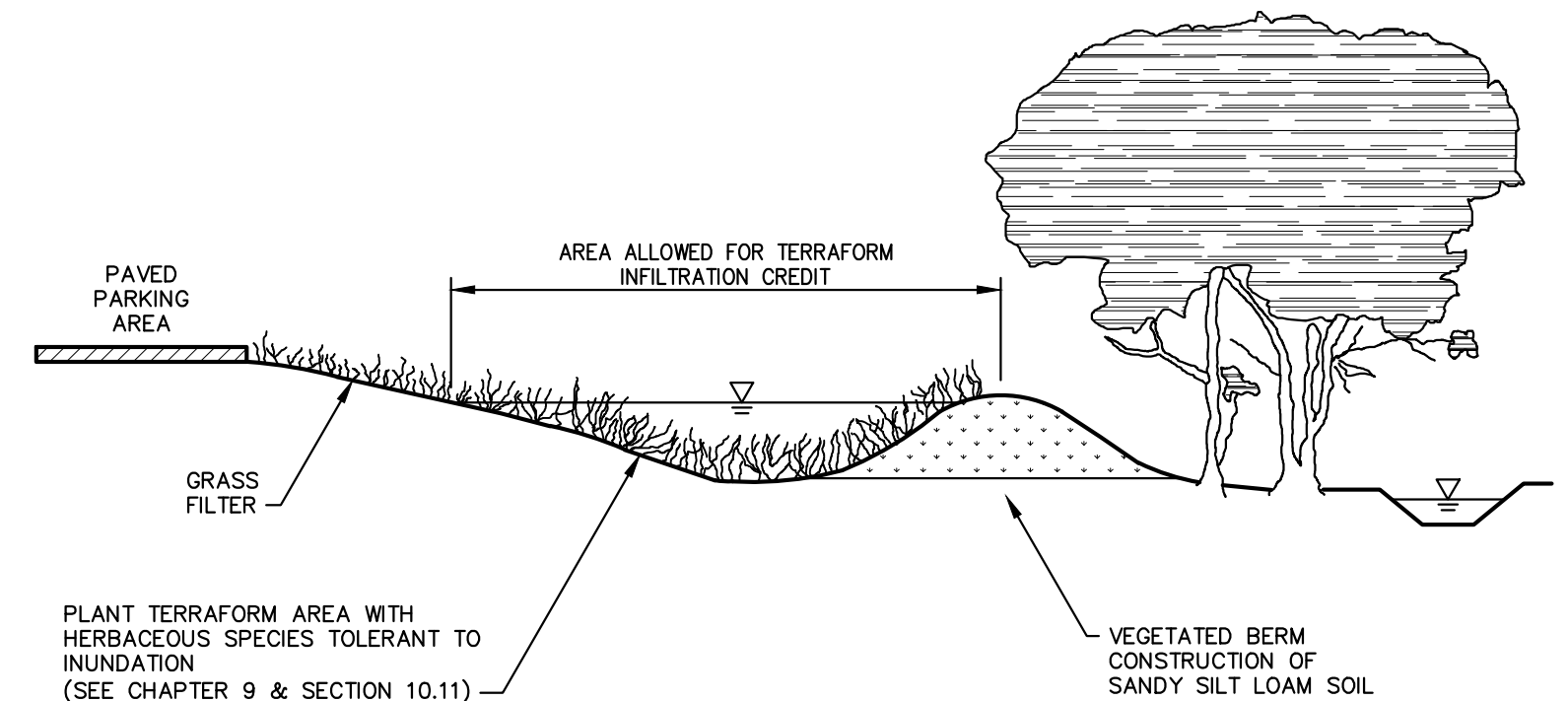
LONGITUDINAL SECTION SHOWING SPACING BETWEEN CHECK DAMS



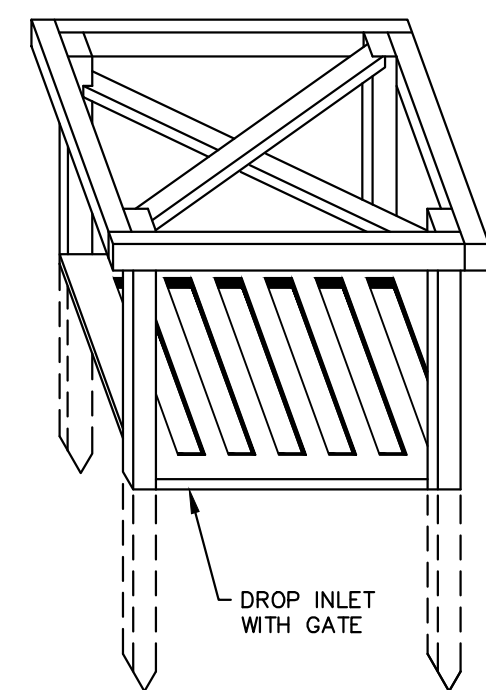
ANCHOR SLOT DETAILS FOR ECB & TRM



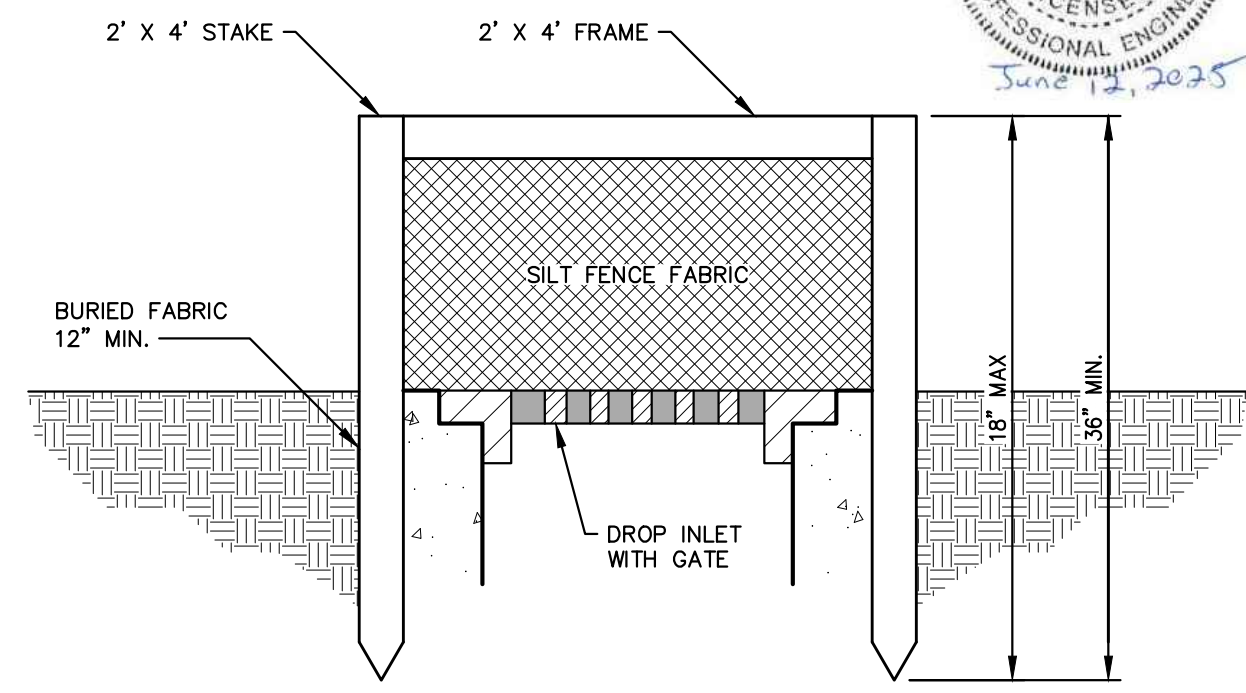
PLACEMENT OF ECB & TRM IN CHANNEL



STABILIZED CONSTRUCTION ENTRANCE



ISOMETRIC VIEW OF 2 X 4 WOOD FRAME



DROP INLET PROTECTION USING SILT FENCE



DESIGNER	MAL	DATE		BY		REVISION	
DRAWN	TEW						
CHECKED	JKR						
APPROVED	MAL						

GRAPHIC SCALE
SCALE: AS NOTED

ALL RIGHTS RESERVED
THIS DOCUMENT IS THE PROPERTY OF BELL ENGINEERING AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION OF BELL ENGINEERING.
FACSIMILES OF LICENSED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR SEALS, IF AFFIXED TO THIS DOCUMENT, SHALL BE CONSIDERED LEGITIMATE ONLY IF SIGNED AND DATED BY THE REGISTRANT.

bell engineering
Lexington, KY (859) 278-5412
Hopkinsville, KY (270) 886-5466
Somerset, KY (606) 485-4011

MOUNT STERLING ROAD AND KY 89
WATER LINE UPGRADE
EAST CLARK COUNTY WATER DISTRICT
CLARK COUNTY, KENTUCKY

EROSION CONTROL DETAILS

DIVISION	-
CONTRACT NO.	415-24-02
DATE	AUGUST 2024
SHEET NO.	ECD1 OF ECD1