

ROANE CO.

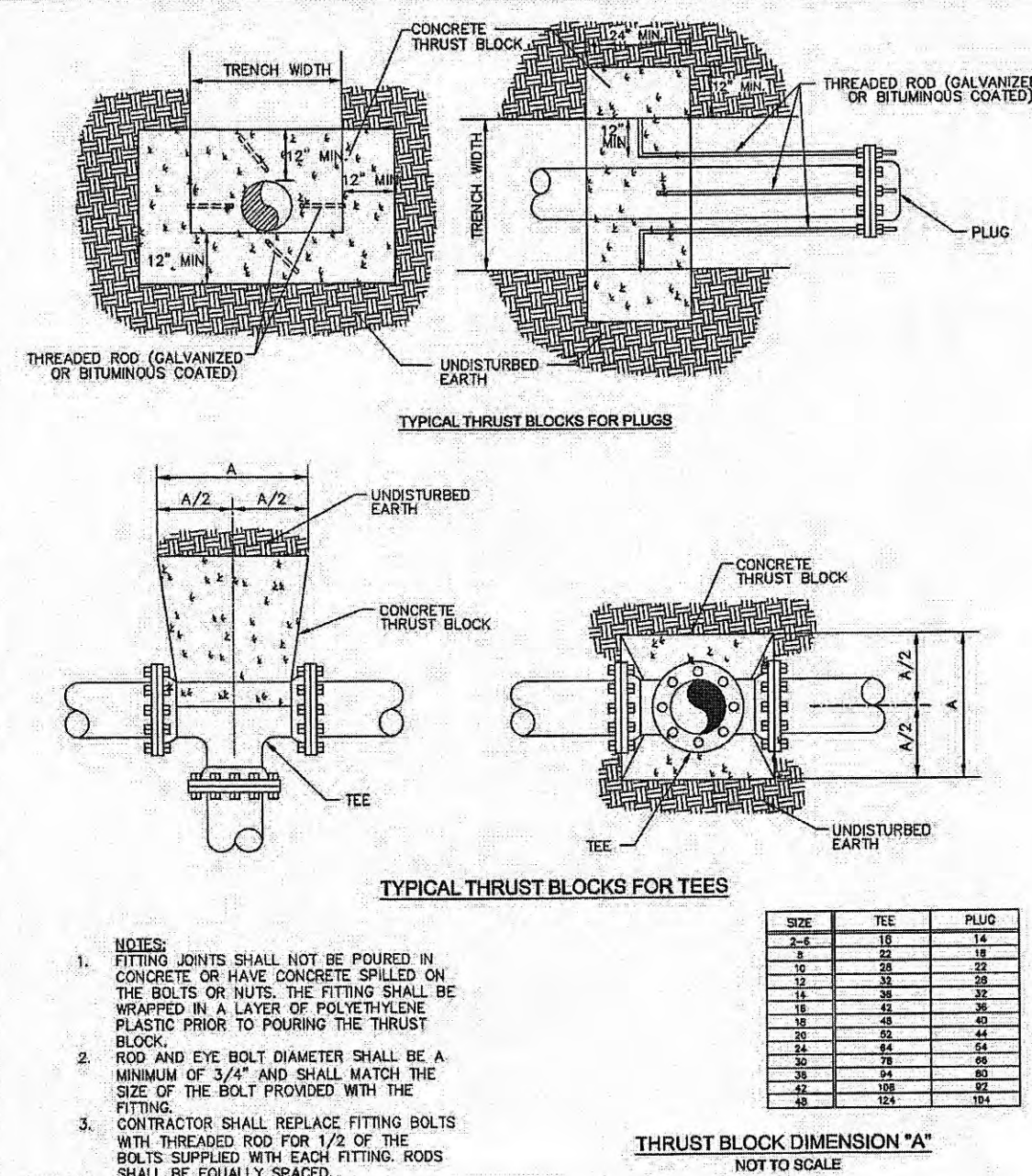
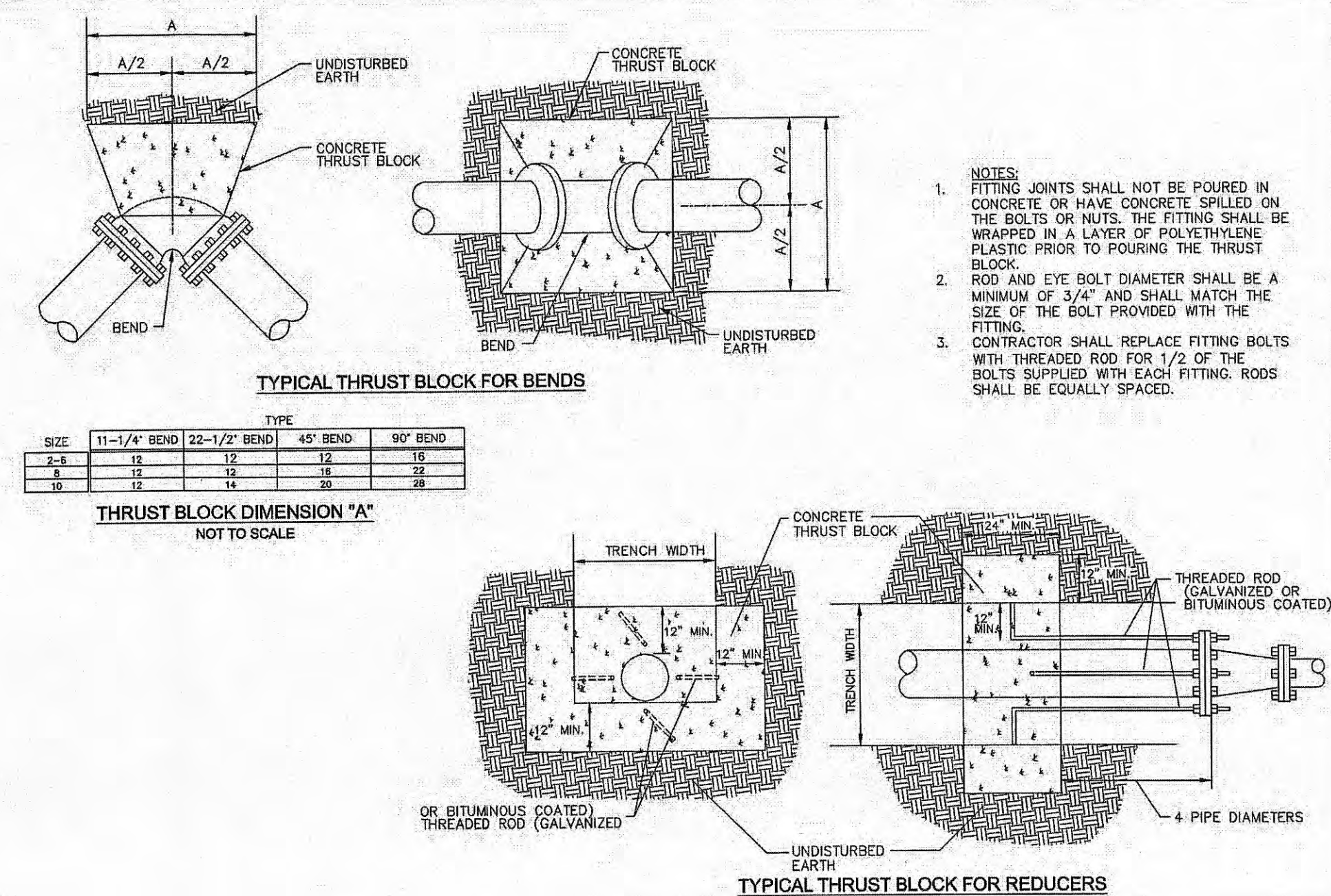
REV. 08-27-12:
REVISED PER T.D.O.T COMMENTS.

REV. 09-21-12:
REVISED PER T.D.O.T
CONSTRUCTION NUMBER CHANGE.

REV. 04-25-13:
REVISED PER T.D.O.T
ROADWAY REVISION.



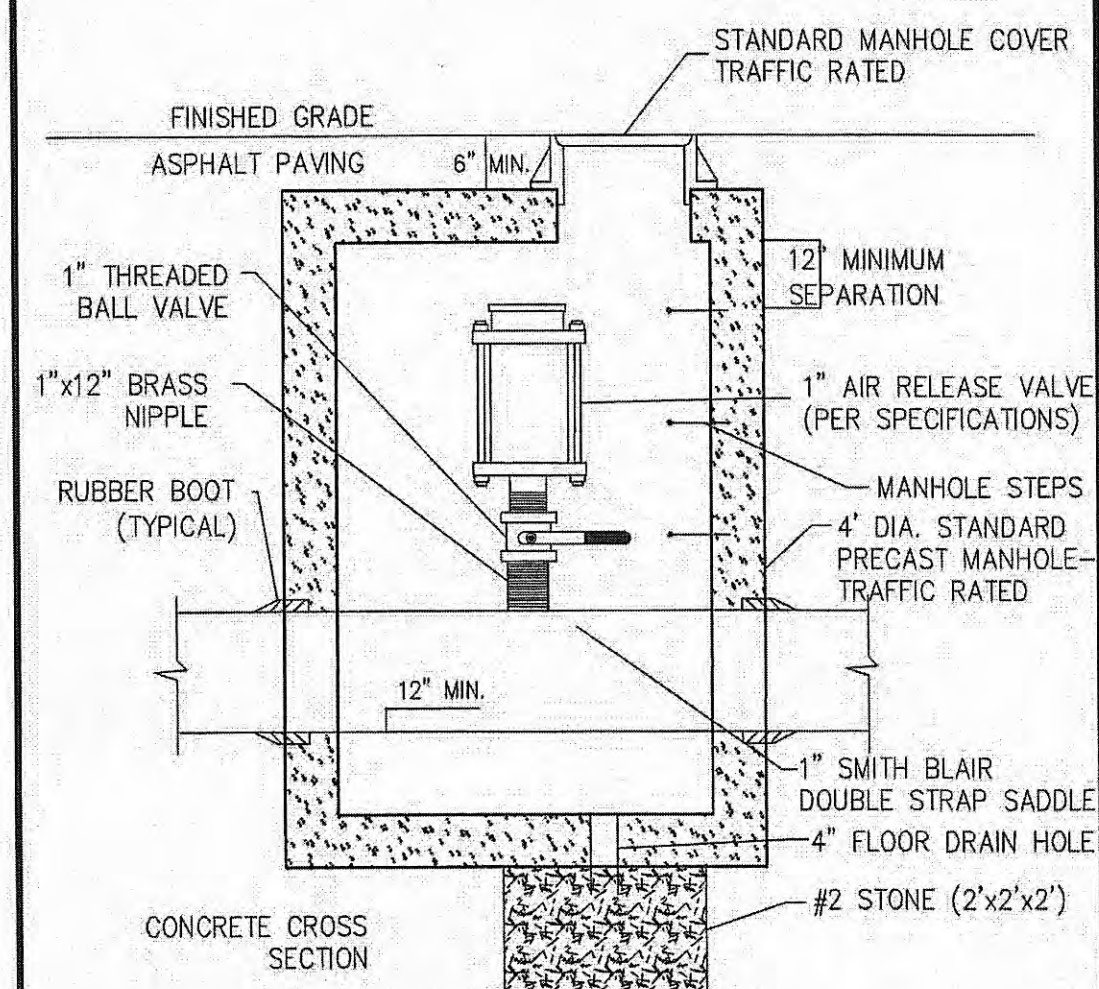
- NOTES:
1. EDGE TO BE SAWED WITH A CONCRETE SAW TO A NEAT SQUARED EDGE. BROOMED CLEAN OF DUST BEFORE TACK COAT IS APPLIED.
 2. EDGES TO BE TACKED WITH EMULSIFIED ASPHALT TACK CRS-I OR CRS-II
 3. CUTTING AND REPAIRING EXISTING PAVEMENT CONCRETE OR GRAVEL SHALL BE IN ACCORDANCE WITH OWNER'S REQUIREMENTS



Pipe Size (Inches)			
Fitting/Valve Type	2	6	8 DR
Minimum Restrained Length (Feet)			
Plug	50	75	105
Inline Valve	50	75	105
Tee	20	20	20
90° Bend	16	20	32
45° Bend	16	20	20
22.5° Bend	16	20	20
11.25° Bend	16	20	20
5° Bend	16	20	20

- NOTES:**
1. CONTRACTOR SHALL USE RESTRAINED JOINT FITTINGS OR REACTION BLOCKING FOR EACH FITTING INSTALLED ON THE PROJECT. REACTION BLOCKING SHALL ONLY BE USED FOR FITTINGS AT TE-IN CONNECTIONS.
 2. WHERE RESTRAINED JOINT FITTINGS ARE REQUIRED BY THE PLANS OR SPECIFICATIONS, RESTRAINED JOINT FITTINGS MUST BE INSTALLED AS REQUIRED BY THE TABLES AND NOTES FOUND WITHIN THE PLANS AND SPECIFICATIONS.
 3. MECHANICAL RESTRAINED JOINT FITTINGS SHALL BE "MEGALUG" AS MANUFACTURED BY ECLIPSE, INC. APPROVED EQUAL.
 4. CONTRACTOR SHALL INSTALL RESTRAINING CASKETS FOR PUSH-ON JOINT PIPE A MINIMUM DISTANCE FROM EACH VALVE OR FITTING AS REQUIRED IN THE ABOVE TABLE.
 5. RESTRAINING CASKETS FOR PUSH-ON JOINT PIPE SHALL BE UTILITY OWNER SPECIFICATIONS.

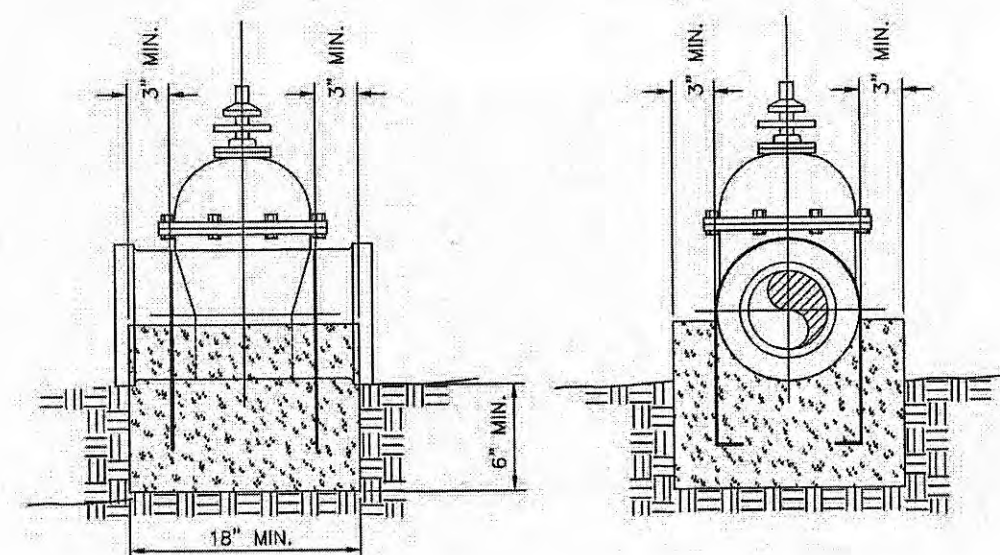
THRUST RESTRAINT JOINT TABLE



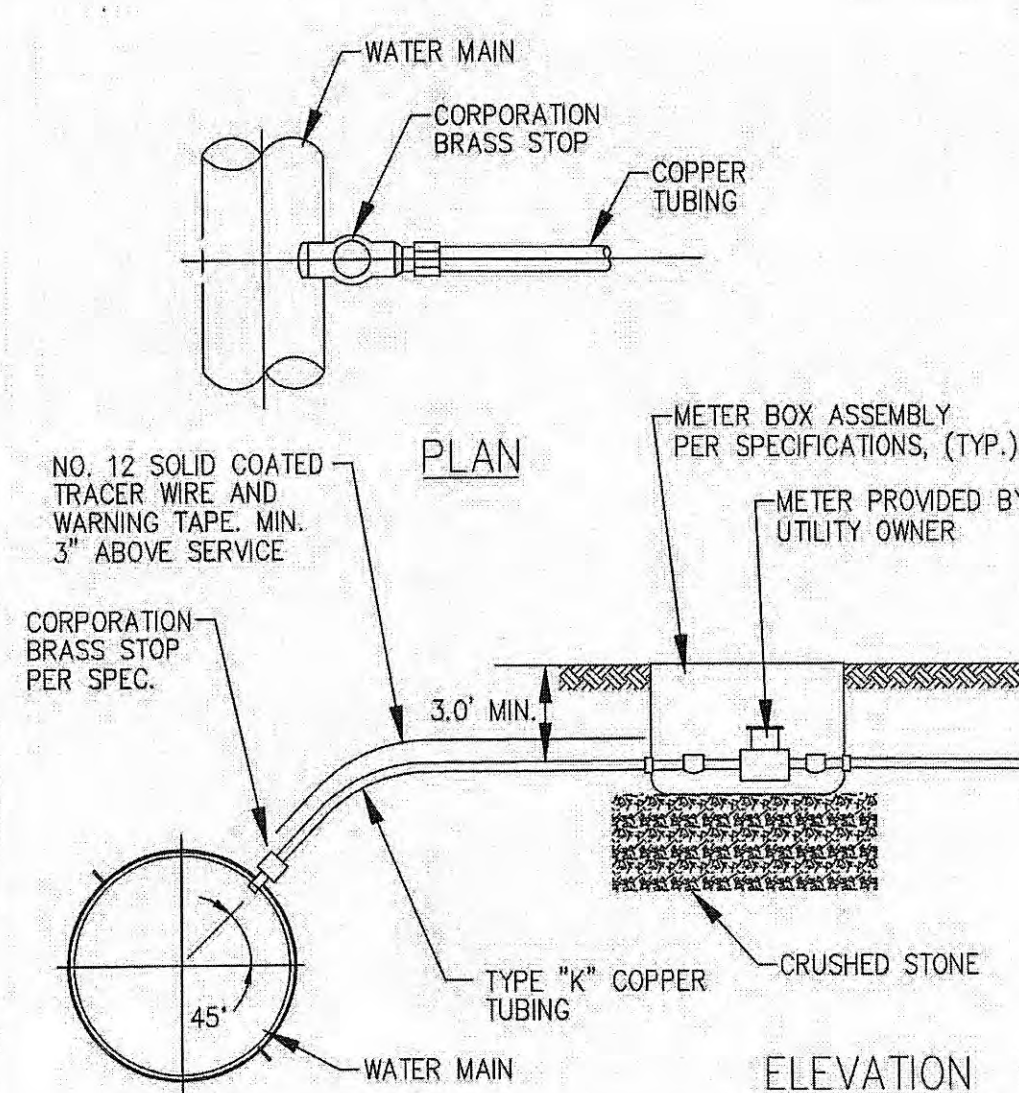
STANDARD AIR RELEASE VALVE



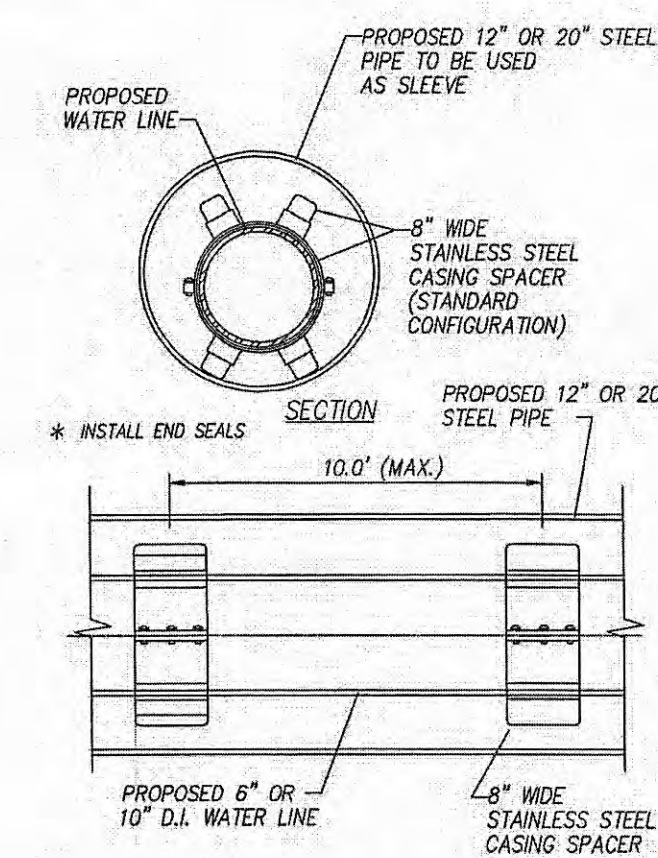
SIZE OF VALVE	CONCRETE CU. FT.
2" & 2 1/4"	1.0
3" & 4"	1.0
6"	1.3
8"	1.5
10"	1.8



CONCRETE BLOCKING FOR VALVES
N.T.S.

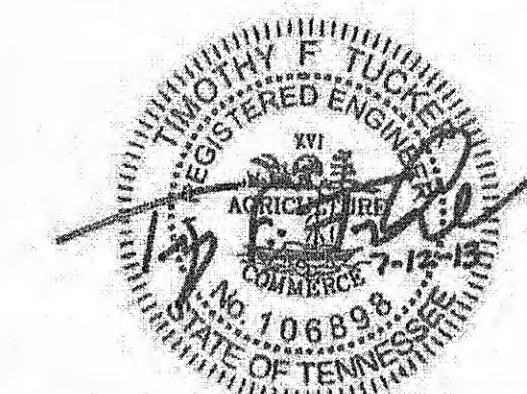


WATER SERVICE DETAIL
N.T.S.



- NOTES
1. ACCEPTABLE MANUFACTURERS OF BOTH SPACERS AND
END SEALS FOR CASING PIPE AS FOLLOWS:
- PIPELINE SEAL AND INSULATORS, INC. (PSI), HOUSTON,
ADVANCE PRODUCTS AND SYSTEMS, INC. LAFAYETTE, LA
CASCADE WATERWORKS MFG. CO., YORKVILLE, IL

SPACER DETAIL
N.T.S.



HARRIMAN
UTILITY
BOARD

WATER LINE
RELOCATION

TYPICAL DETAILS
SCALE: AS SHOWN

INDEX OF DRAWINGS

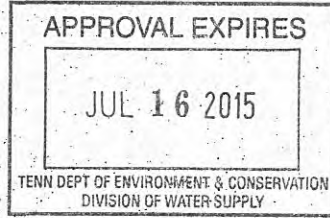
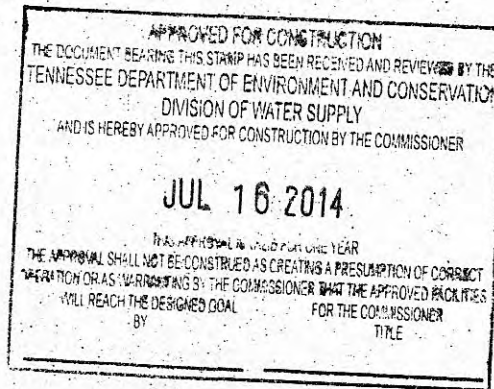
SHT. NUMBER	SHT. NAME
U2-1	ESTIMATED QUANTITIES (WATER)
U2-2	UTILITY RELOCATION PLAN (WATER)
U2-3	UTILITY RELOCATION PLAN (WATER)
U2-4	UTILITY RELOCATION PLAN (WATER)
U2-5	UTILITY RELOCATION PLAN (WATER)
U2-6	UTILITY RELOCATION PLAN (WATER)
U2-7	TYPICAL WATER DETAILS

REV. 12-23-13:
REVISED QUANTITIES TO
ADD 8" DIA. WATER LINE.

NOTES	ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PERCENT UTILITY	PERCENT PROJECT
⑨ ①	795-01.03	6IN DIP RESTRAINED JOINT WATER LINE	L.F.	295	19%	81%
⑩ ①	795-01.04	6IN DIP SLIP JOINT WATER LINE	L.F.	2,460	19%	81%
⑩ ①	795-01.06	8IN DIP SLIP JOINT WATER LINE	L.F.	205	0%	100%
⑨ ①	795-01.07	10IN DIP RESTRAINED JOINT WATER LINE	L.F.	370	21%	79%
⑩ ①	795-01.08	10IN DIP SLIP JOINT WATER LINE	L.F.	4,490	21%	79%
⑩ ①	795-03.02	2IN PVC WATER LINE	L.F.	833	0%	100%
②	795-05.63	BORE/JACK 12IN STEEL CASING PIPE-UNCON.	L.F.	230	19%	81%
②	795-05.67	BORE/JACK 20IN STEEL CASING PIPE-UNCON.	L.F.	340	21%	79%
②	795-05.91	2IN PVC CASING PIPE OPEN CUT	L.F.	355	0%	100%
②	795-05.92	4IN PVC CASING PIPE OPEN CUT	L.F.	90	20%	80%
③	795-06.01	CONNECT TO 2IN WATER LINE	EACH	5	0%	100%
③	795-06.04	CONNECT TO 6IN WATER LINE	EACH	8	0%	100%
③	795-06.05	CONNECT TO 8IN WATER LINE	EACH	2	0%	100%
④	795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EACH	4	0%	100%
④	795-07.10	10IN X 10IN TAPPING SLEEVE AND VALVE	EACH	1	100%	0%
⑤	795-08.01	2IN GATE VALVE ASSEMBLY	EACH	5	0%	100%
⑤	795-08.04	6IN GATE VALVE ASSEMBLY	EACH	9	19%	81%
⑤	795-08.05	8IN GATE VALVE ASSEMBLY	EACH	2	0%	100%
⑤	795-08.06	10IN GATE VALVE ASSEMBLY	EACH	21	21%	79%
⑥	795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EACH	29	0%	100%
⑥	795-09.02	1IN WATER SERVICE METER ASSEMBLY	EACH	9	0%	100%
⑦	795-09.28	3/4IN COPPER SERVICE PIPE	L.F.	615	0%	100%
⑦	795-09.29	1IN COPPER SERVICE PIPE	L.F.	875	0%	100%
⑦	795-10.03	1IN AUTO AIR RELEASE VALVE ASSEMBLY	EACH	4	0%	100%
⑥	795-11.01	BLOW-OFF ASSEMBLY	EACH	1	0%	100%
⑥	795-11.02	FIRE HYDRANT ASSEMBLY	EACH	6	0%	100%
⑧	795-13.01	DI FITTINGS	LBS	11,800	0%	100%
⑧	795-13.03	PVC FITTINGS	LBS	150	0%	100%
②	795-15.02	12IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	65	19%	81%
②	795-15.05	20IN STEEL CASING PIPE OPEN CUT METHOD	L.F.	30	21%	79%

FOOTNOTES:

- ① INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.
- ② INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.
- ③ INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.
- ④ INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.
- ⑤ INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.
- ⑥ INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPERATELY FOR EACH FOOT INSTALLED.
- ⑦ INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.
- ⑧ INCLUDES FITTINGS, GLANDS AND RESTRAINT DEVICES DESCRIBED IN POUNDS.
- ⑨ RESTRAINED JOINT WATER LINE ITEMS SHALL BE PAID FOR CARRIER PIPE INSIDE STEEL CASING ONLY.
- ⑩ RESTRAINING GASKETS REQUIRED ON SLIP JOINT PIPE AS A RESULT OF VALVES OR FITTINGS SHALL BE INCLUDED IN THE UNIT ITEM FOR SLIP JOINT WATER LINE. MECHANICAL RESTRAINED JOINT FITTINGS SHALL BE PAID BY POUND ACCORDING TO THE UNIT PRICE FOR DI OR PVC FITTINGS.



WS 14 0791

UTILITY INFORMATION

UTILITY TITLE
ADDRESS

HARRIMAN UTILITY BOARD
P.O. BOX 434
HARRIMAN, TN. 37748

CONTACT PERSON
PHONE

FRANKIE DAVIS
(865) 882-3242

GENERAL NOTES:

1. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED.
2. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. FURNISH ANY SPECIAL EQUIPMENT REQUIRED TO WORK OVER AND AROUND THE UTILITIES.
3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS TO NOTIFY THEM OF WORK IN THE AREA AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY. NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
4. UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, AT 811.
5. TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
6. THE STONE BEDDING AND BACKFILL SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE UTILITIES SPECIFICATIONS.
7. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITIES SPECIFICATIONS.
8. WATER MAIN PIPE SHALL BE PRESSURE CLASS 350 D.I.P. OR SDR 17 PVC PER UTILITIES SPECIFICATIONS.
9. CONTRACTOR TO INSTALL WATER LINES AT A POSITIVE GRADE BETWEEN DESIGNATED HIGH AND LOW POINTS TO PREVENT TRAPPING OF AIR.
10. PROPOSED 1" AIR RELEASE VALVES SHALL BE INSTALLED AT HIGH POINTS IN THE PROPOSED WATER LINE, AND SHALL BE FIELD LOCATED BY THE RESIDENT PROJECT REPRESENTATIVE.
11. CONTRACTOR TO COORDINATE FIELD LOCATIONS OF PROPOSED FIRE HYDRANTS, WATER SERVICES AND METERS WITH RESIDENT PROJECT REPRESENTATIVE.
12. NO VALVES SHALL BE INSTALLED UNDER AREAS TO RECEIVE ASPHALT PAVEMENT UNLESS APPROVED BY RESIDENT PROJECT REPRESENTATIVE.
13. VALVES, HYDRANTS AND METER ASSEMBLIES SHALL BE ORIENTED SO AS TO ASSURE WATER LINE APPURTENANCES ARE NOT LOCATED WITHIN SIDEWALK AND/OR CURB/CURB & GUTTER AREAS.
14. CONTRACTOR SHALL USE RESTRAINED JOINT FITTINGS FOR ALL WATER PIPE FITTINGS, EXCEPT FOR FITTINGS AT TIE-IN CONNECTIONS WHICH SHALL BE RESTRAINED WITH CONCRETE THRUST BLOCKS.
15. CONTRACTOR SHALL INSTALL DETECTION WIRE AND WARNING TAPE PER UTILITY SPECIFICATIONS.
16. WATER LINE CROSSINGS UNDER S.R. 29 SHALL BE ENCASED WITH STEEL CASING AND BE INSTALLED BY OPEN CUT OR BORE AND JACK METHOD PER STATE RESIDENT PROJECT REPRESENTATIVE'S DISCRETION.
17. WATER MAIN MIN. COVER SHALL BE 30", MAX. COVER SHALL BE 54" UNLESS OTHERWISE APPROVED BY UTILITY OWNER.
18. ALL INCIDENTAL WORK, INCLUDING LABOR AND MATERIALS, NECESSARY TO COMPLETE THE PROJECT AS SHOWN IN THE CONTRACT DOCUMENTS, FOR WHICH A SEPERATE PAY ITEM IS NOT SHOWN SHALL BE PERFORMED BY THE CONTRACTOR AND NO ADDITIONAL PAYMENT SHALL BE MADE. THE COST OF THIS WORK SHALL BE MERGED INTO THE UNIT PRICES BID FOR THE BID ITEMS SHOWN.

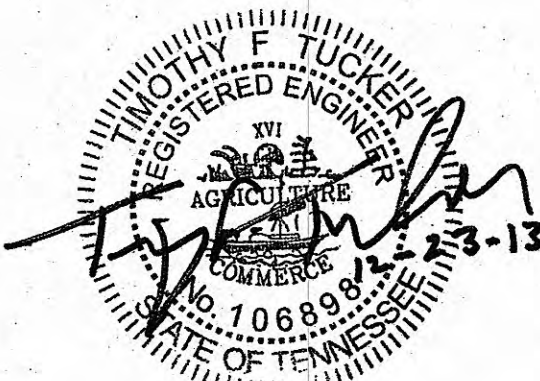
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-29(58)	U2-1
		73035-3209-14	

ROANE CO.

REV. 12-23-13:
REVISED TO ADD 8" DIA.
WATER LINE.

LEGEND	
—	PROPOSED CENTERLINE
—	PROP/EXIST. R.O.W.
— W —	PROPOSED WATER LINE
—	PROPOSED STORM SEWER
— P —	EXIST. PROPERTY LINE
— 8" SA —	EXIST. SANITARY SEWER
— 8" W —	EXIST. WATER LINE
— P/T —	EXIST. POWER LINE
— 3" G —	EXIST. NATURAL GAS
—	EXIST. STORM SEWER
—	EXIST. STREAM
□ W.M.	EXIST. WATER METER
□ G.M.	EXIST. GAS METER
□ MB	EXIST. MAILBOX

Ruritan Rd
Water
(TDEC Approval)



HARRIMAN
UTILITY
BOARD

WATER LINE
RELOCATION

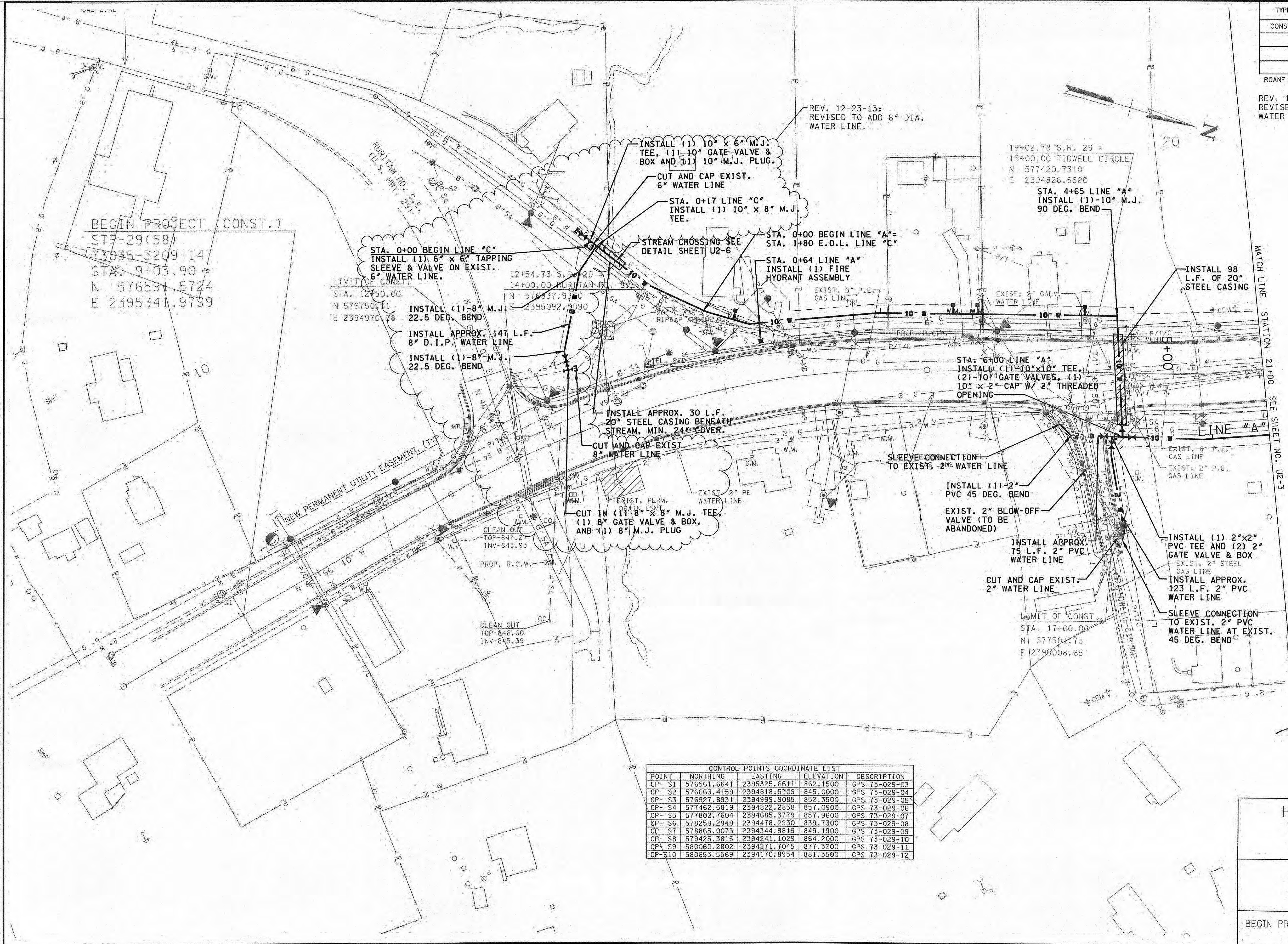
ESTIMATED QUANTITIES

UTILITY APPROVAL

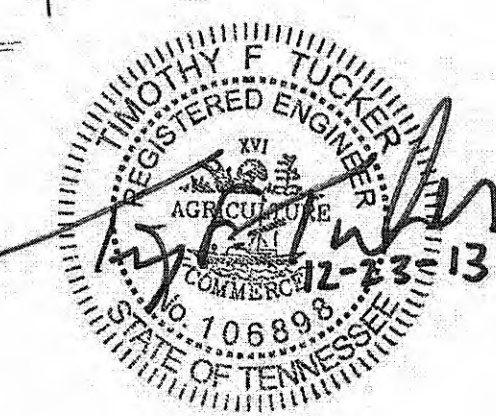
Carolee D. Hammond
HARRIMAN UTILITY BOARD

05/06/2014
DATE

ROANE CO.
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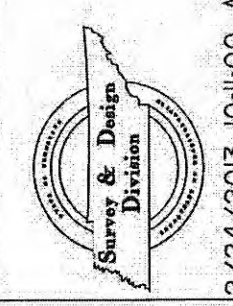
CONTROL POINTS COORDINATE LIST				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP- S1	576561.6641	2395325.6611	862.1500	GPS 73-029-03
CP- S2	576663.4159	2394818.5709	845.0000	GPS 73-029-04
CP- S3	576927.8931	2394999.9085	852.3500	GPS 73-029-05
CP- S4	577462.5819	2394822.2858	857.0900	GPS 73-029-06
CP- S5	577802.7604	2394685.3779	857.9600	GPS 73-029-07
CP- S6	578259.2949	2394478.2930	839.7300	GPS 73-029-08
CP- S7	578865.0073	2394344.9819	849.1900	GPS 73-029-09
CP- S8	579425.3815	2394241.1029	864.2000	GPS 73-029-10
CP- S9	580060.2802	2394271.7045	877.3200	GPS 73-029-11
CP- S10	580653.5569	2394170.8954	881.3500	GPS 73-029-12



HARRIMAN
UTILITY
BOARD

WATER LINE
RELOCATION

BEGIN PROJ. TO STA. 21+00.00
SCALE: 1"=50'



ADDITIONAL CONSTRUCTION NOTES PER EASEMENT DOCUMENTS	
PROPERTY OWNER	NOTES
REBECCA A. BROWN (839 RURITAN ROAD)	CONTACT BECKY BROWN 2 WEEKS PRIOR TO WORKING ON PROPERTY. TRY TO WORK ON PROPERTY DURING TIMES THE BUSINESS IS CLOSED (JANUARY - FEBRUARY OR JULY - AUGUST). BE CAREFUL NOT TO DAMAGE FRENCH DRAIN NEAR NEW PROPERTY LINE. NO EQUIPMENT IS TO BE DRIVEN ON CONCRETE PARKING AREA OUTSIDE OF EASEMENT.
NEW WILLARD PARK CEMETARY (RURITAN ROAD)	CARE MUST BE TAKEN TO ENSURE THAT NO GRAVES WILL BE DISTURBED.
GEORGE D. & HELEN W. WHALEY (814 RURITAN ROAD)	MAINTAIN ACCESS TO DRIVEWAY (RENTAL PROPERTY)

SR 29-CURVE C3
PI 27+72.03
N 578,235.8480
E 2,394,525.9210
Δ 5° 22' 29" (RT)
D 1' 00' 00"
R 5,729.58
L 537.46
T 268.93
SE RC
DESIGN SPEED 45 MPH
TRANS. LENGTH 140

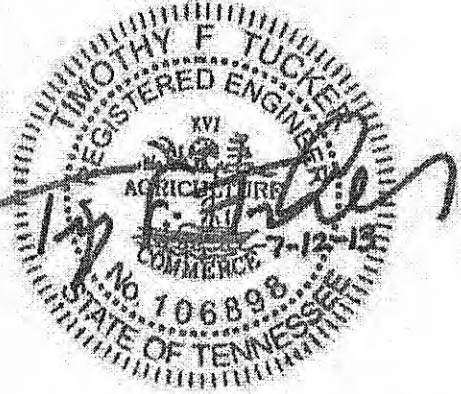
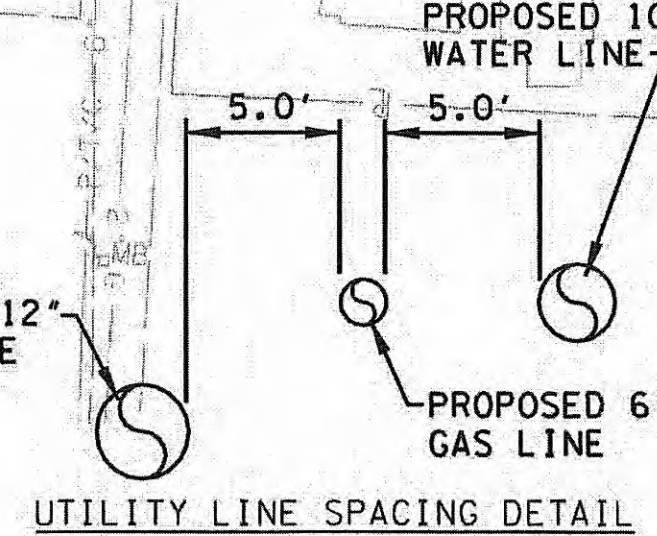
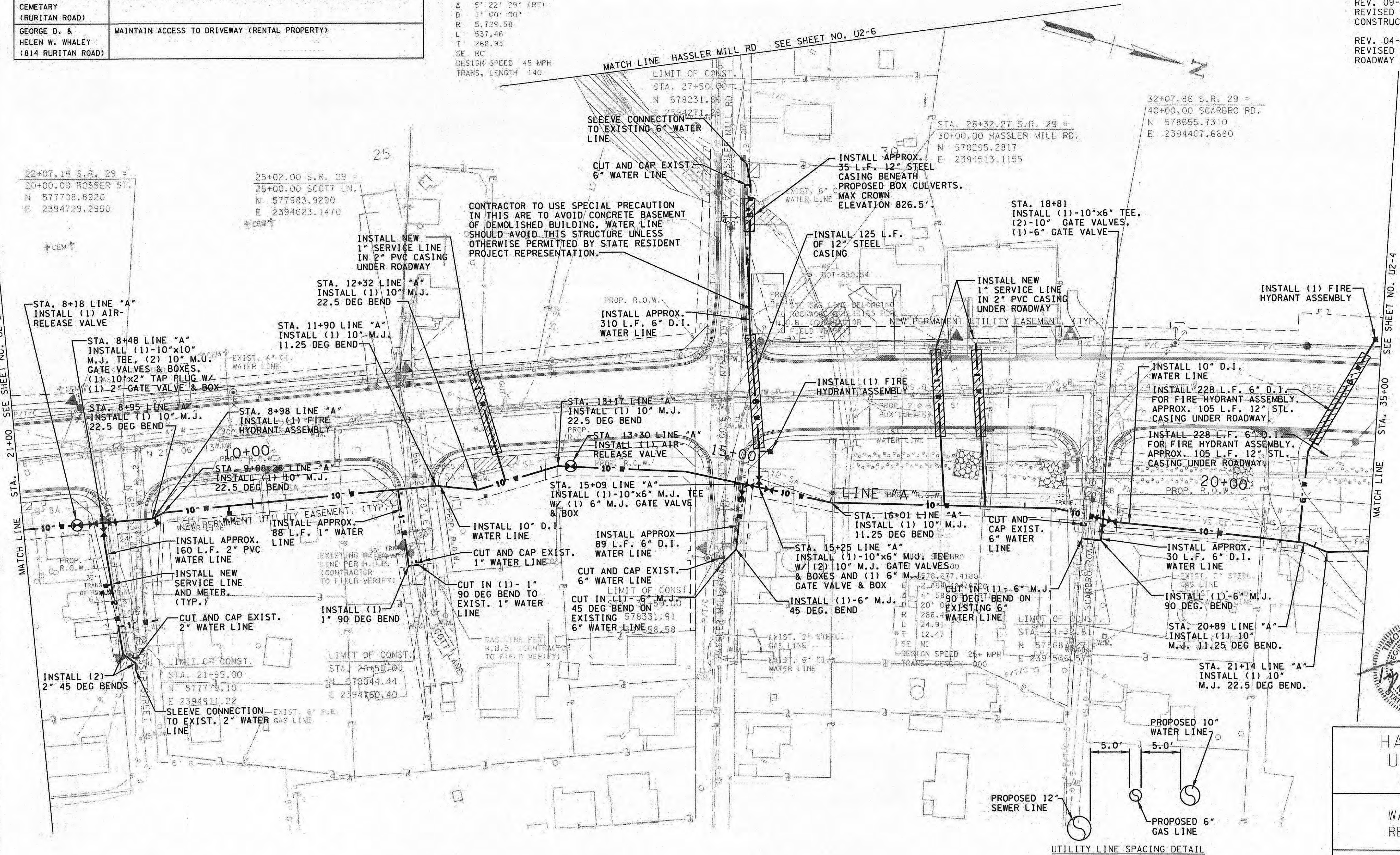
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-29(58)	U2-3
		73035-3209-14	

ROANE CO.

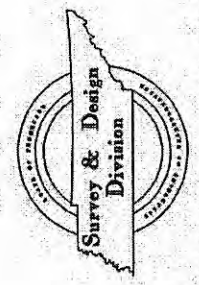
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HARRIMAN UTILITY BOARD
WATER LINE RELOCATION
STA. 21+00.00 TO STA. 35+00.00 SCALE: 1"=50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-29(58)	U2-4
		73035-3209-14	

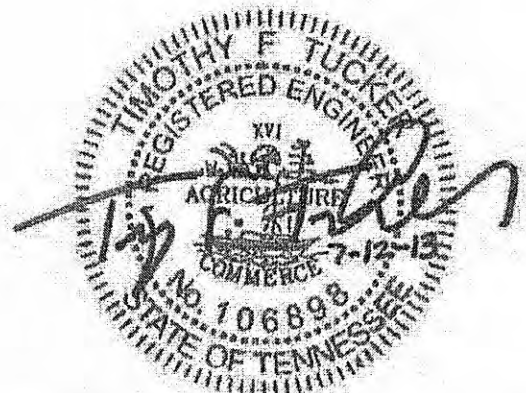
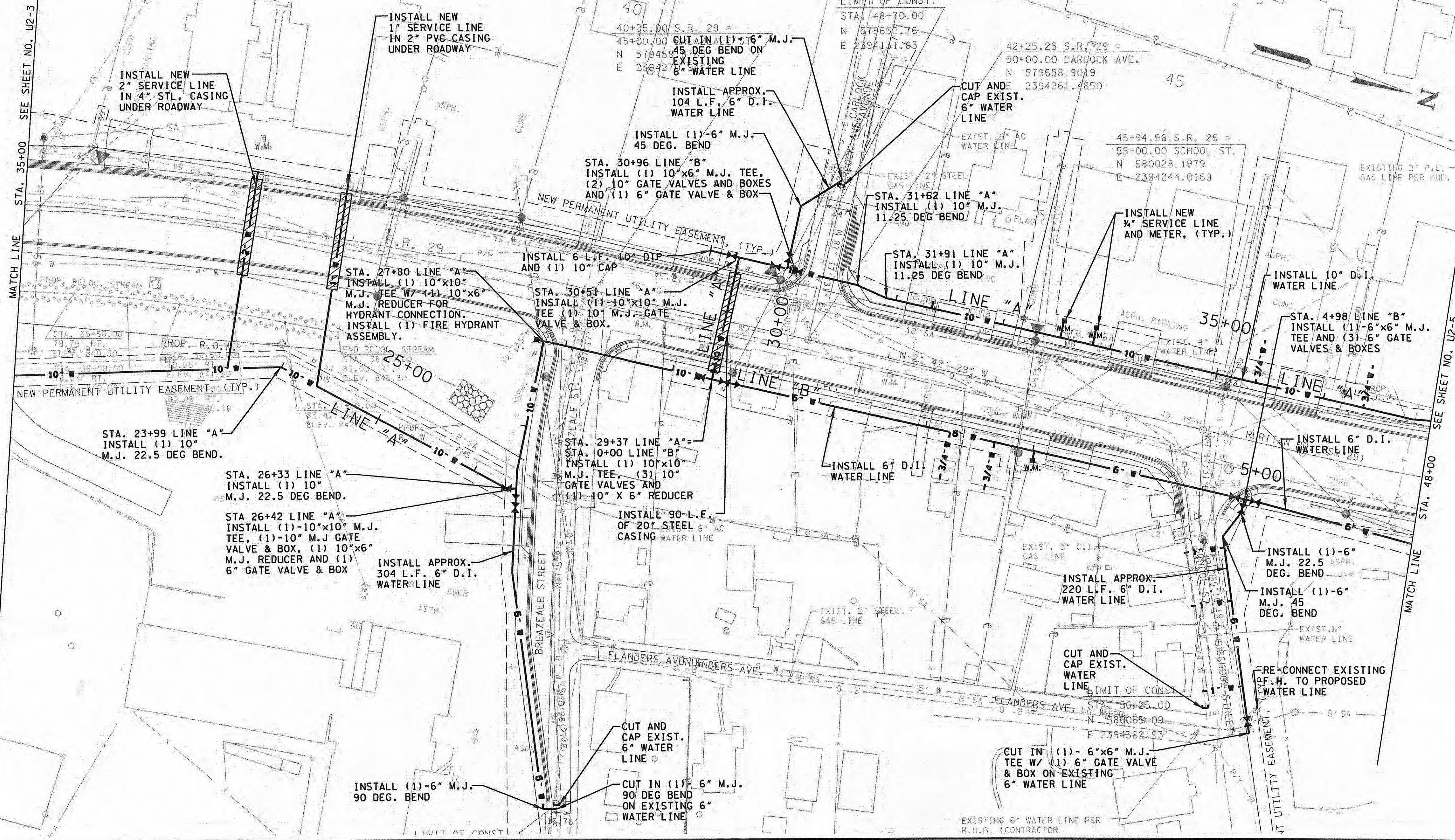
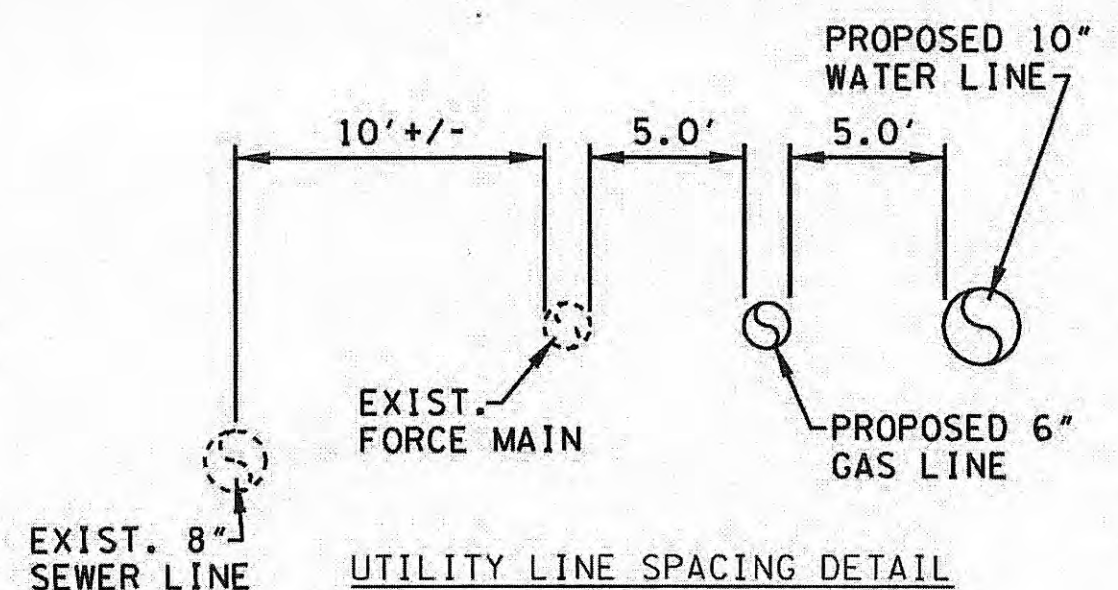
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ADDITIONAL CONSTRUCTION NOTES PER EASEMENT DOCUMENTS	
PROPERTY OWNER	NOTES
MARION KITTRELL (411 RURITAN ROAD)	ENSURE ACCESS IS MAINTAINED TO BUSINESS DURING CONSTRUCTION (MUFFLER SHOP)
LANN DAVID & MILDRED F. WEBB (316 RURITAN ROAD)	ENSURE ACCESS IS MAINTAINED TO BUSINESS DURING CONSTRUCTION. NO EQUIPMENT ON PROPERTY OUTSIDE EASEMENT.
ROANE COUNTY BOARD OF EDUCATION (RURITAN ROAD)	CONTACT ROBERT JONES OR GARY AYTES PRIOR TO BEGINNING CONSTRUCTION ON SCHOOL PROPERTY. MAINTAIN WATER, SEWER, AND GAS UTILITIES DURING OPERATING HOURS.



HARRIMAN
UTILITY
BOARD

WATER LINE
RELOCATION

STA. 35+00.00 TO STA. 48+00.00
SCALE: 1"=50'

ADDITIONAL CONSTRUCTION NOTES PER EASEMENT DOCUMENTS	
PROPERTY OWNER	NOTES
ANN MCKINNEY & SHELBY SIKES (107 PANSY HILL RD)	BEAUTY SHOP IS CLOSED ON SATURDAYS, SUNDAYS, AND MONDAYS. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS BEFORE BEGINNING WORK IN FRONT OF THE SALON SO THEY CAN DIRECT CUSTOMERS WHERE TO PARK (TUESDAY - FRIDAY).
HASKELL HILL (230 RURITAN ROAD)	CONTRACTOR TO ENSURE TENANTS HAVE ACCESS TO THE BACK OF THE BUILDING DURING CONSTRUCTION.
DONALD & PRECILLA LOMBARD (182 STATE STREET)	CONTRACTOR TO MAINTAIN ACCESS TO BARBER SHOP AND PARKING LOT DURING CONSTRUCTION.

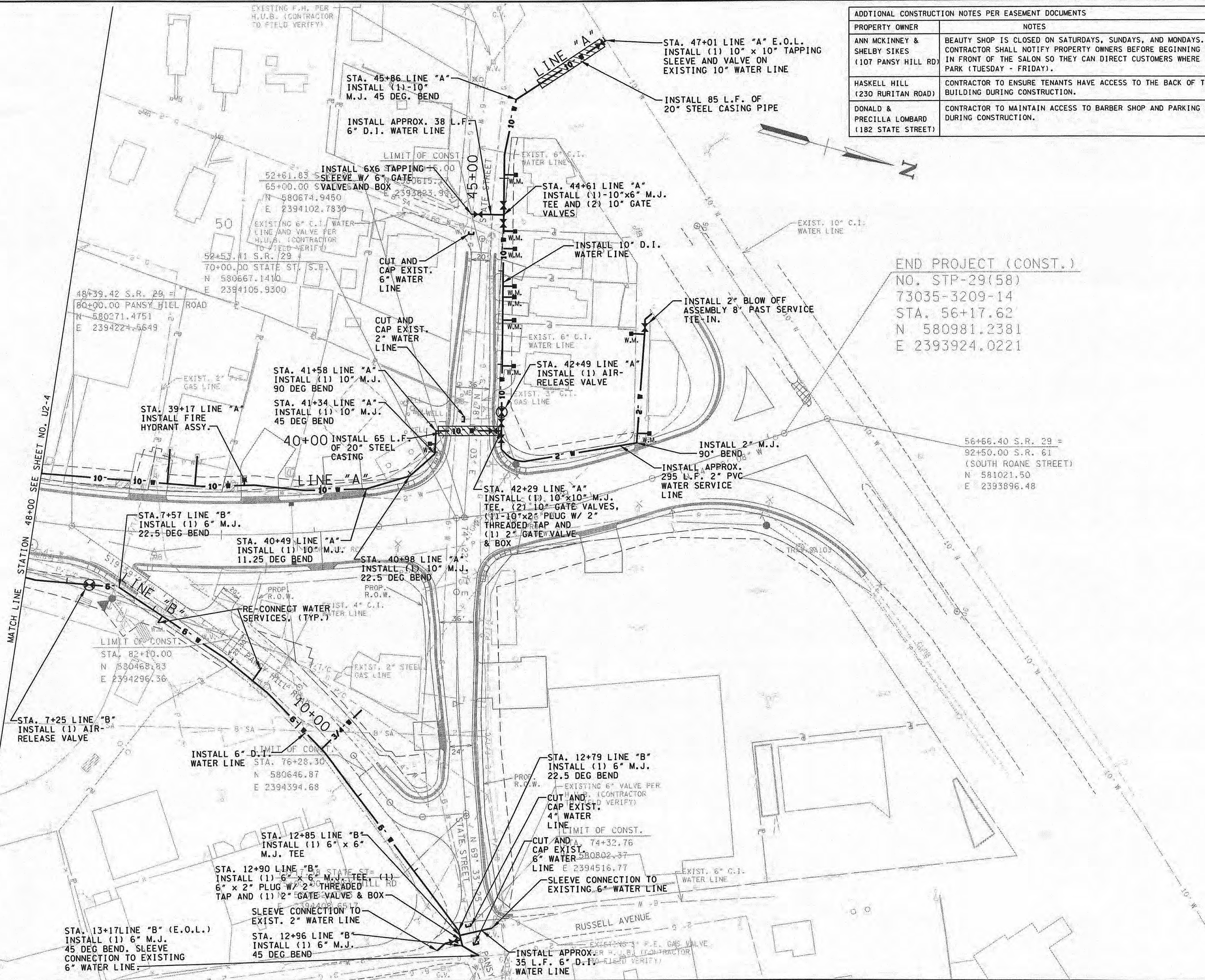
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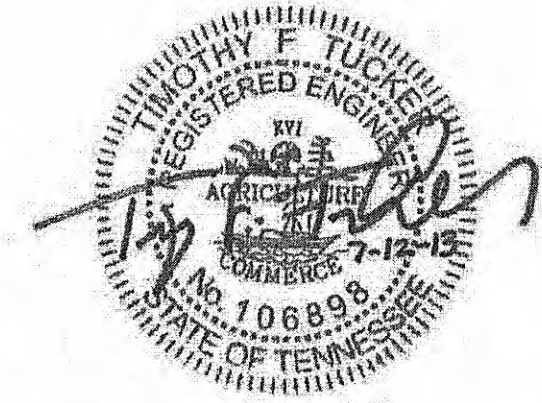
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END PROJECT (CONST.)
NO. STP-29(58)
73035-3209-14
STA. 56+17.62
N 580981.2381
E 2393924.0221

56+66.40 S.R. 29 =
92+50.00 S.R. 61
(SOUTH ROANE STREET)
N 581021.50
E 2393896.48



HARRIMAN
UTILITY
BOARD

WATER LINE
RELOCATION

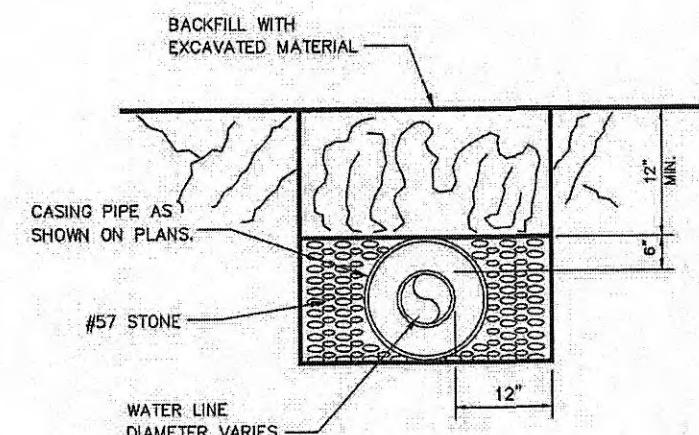
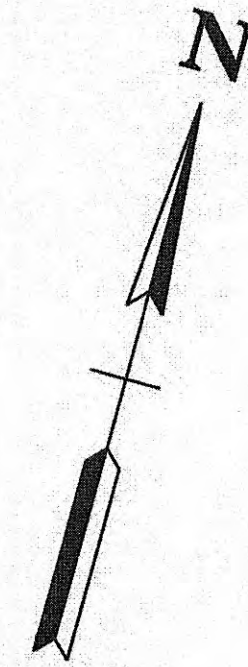
STA. 48+00.00 TO END OF PROJ.
SCALE: 1"=50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-29(58)	U2-6
		73035-3209-14	

ROANE CO.

REV. 04-25-13:
REVISED PER T.D.O.T
ROADWAY REVISION.



SECTION A-A
NOT TO SCALE

NOTE:
1. SEE SHEET 2F OF ROADWAY PLANS FOR STREAM SECTION DETAILS

TYPICAL CREEK CROSSING
NOT TO SCALE

MH-16
STA. 1+31.75 LINE H
TOP EL. 824.94
INV. IN = 816.95 (12")
INV. OUT = 816.85 (12")
Δ = 31°30'24" RT. LINE "H"

STREAM CROSSING
SEE DETAIL
INSTALL (1) 6" x 6"
TAPPING SLEEVE AND VALVE.
(1) 6" 90° M.J. BEND

INSTALL APPROX. 30 LF
12" STEEL CASING BENEATH
STREAM.

INSTALL APPROX. 45 LF
6" DIP WATER LINE. MIN
24" COVER BENEATH
STREAM INVERT.
SEE DETAIL THIS SHEET.

INSTALL (1) 6" x 6"
TAPPING SLEEVE AND VALVE.
(1) 6" 90° M.J. BEND

CONSTRUCT PROP. 6' x 5'
BOX CULVERT ADJACENT TO
EXIST. 6' x 5' BOX
CULVERT.
PROP. CULVERT TO MATCH
EXISTING CULVERT TOP DECK
ELEVATION AND GRADE.

PROPOSED 12" PVC
SANITARY

SA. MH.
TOP-824.34
INV-817.34 (NE)
INV-817.30 (SW)

CUT AND CAP EXIST.
6" WATER LINE.

MH-17
STA. 1+54.80 LINE H
TOP EL. 825.38
INV. IN = 817.43 (10")
INV. IN = 817.10 (16")
INV. OUT = 817.00 (12")

SA. MH.
TOP-822.05
INV-820.20 (NW)
INV-822.25 (NW) (DROP)
INV-821.65 (SE)
INV-821.55 (SW)

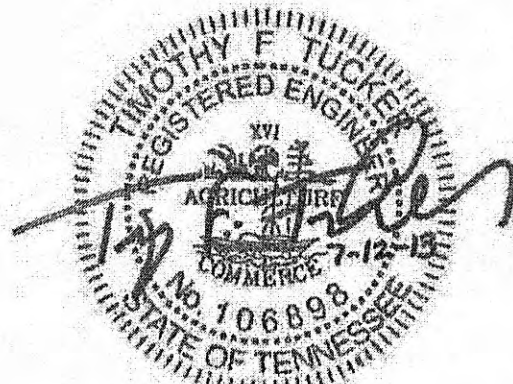
CONNECT TO
EXIST. MANHOLE

PRES. R.O.W.

PROPOSED 12" DIP
WATER LINE TO FOLLOW EXISTING
STREAM ALIGNMENT

SA. MH.
TOP-820.13
INV-822.77 (NE)
INV-822.74 (NW)

NOTE:
NO CONSTRUCTION ACTIVITY OF ANY KIND
IS TO BE ALLOWED ON TRACT #100 -
TENNESSEE VALLEY AUTHORITY (TVA)



HARRIMAN
UTILITY
BOARD

WATER LINE
RELOCATION

HASSLER MILL ROAD AND
BAUMGARTNER ROAD
SCALE: 1"=50'

