Realignment of Beaver Ridge Road

At

Beaver Ridge Road & Oak Ridge Highway

Developed by:

Ingles Markets Inc.

P.O. Box 6676 Asheville, North Carolina 28816 (828) 669-2941, Ext. 305 Attn: Mr. Randy Jameson (VP Real Estate & Distribution)

Intersection of Beaver Ridge Road & Oak Ridge Highway Knox County, Tennessee

	DRAWING INDEX	RE	VISIONS			
C0.0 C1.0 C1.1 C2.0 C3.0 C3.1 C4.0 C4.1 C5.0 C5.1 C6.0 C7.0 C7.1 C8.0	Site Cover Sheet Storm Water Pollution Prevention Plan SWPPP Details and Notes Site Demolition Plan Site Grading & Drainage Plan Site Grading & Drainage Details & Notes Site Layout Plan Site Layout Details Site Utility Plan Site Utility Details and Notes Road Profile Road Cross Sections Sta. 6+00 to 13+50 Road Cross Sections Sta. 13+50 to 18+00 Traffic Signal Plan	10/15/07 10/15/07 10/15/07 10/15/07 10/15/07 10/15/07 10/15/07 10/15/07 10/15/07 10/15/07 10/15/07 10/15/07	1/20/07	C GBS 13 Known Phr	ingles Markets Incorporate BEAVER HIDGE ROAD BEAVER HIDGE ROAD S Engineering 13 Kalmia Road xville, TN 37909 11: 865.566.0185 12: 888.485.7005	NTS NTS NTS NTS OF TENNISSEE
			REV.	DESCRIPTION Revised per MPC comments, dated 11/26/0	-	DATE 11/28/07
			TITLE: LOCATION:	COVER SHEET BEAVER RIDGE ROAD	DRAWN BY: - CHECKED BY: -	SHEET NO:

BEAVER RIDGE ROAD

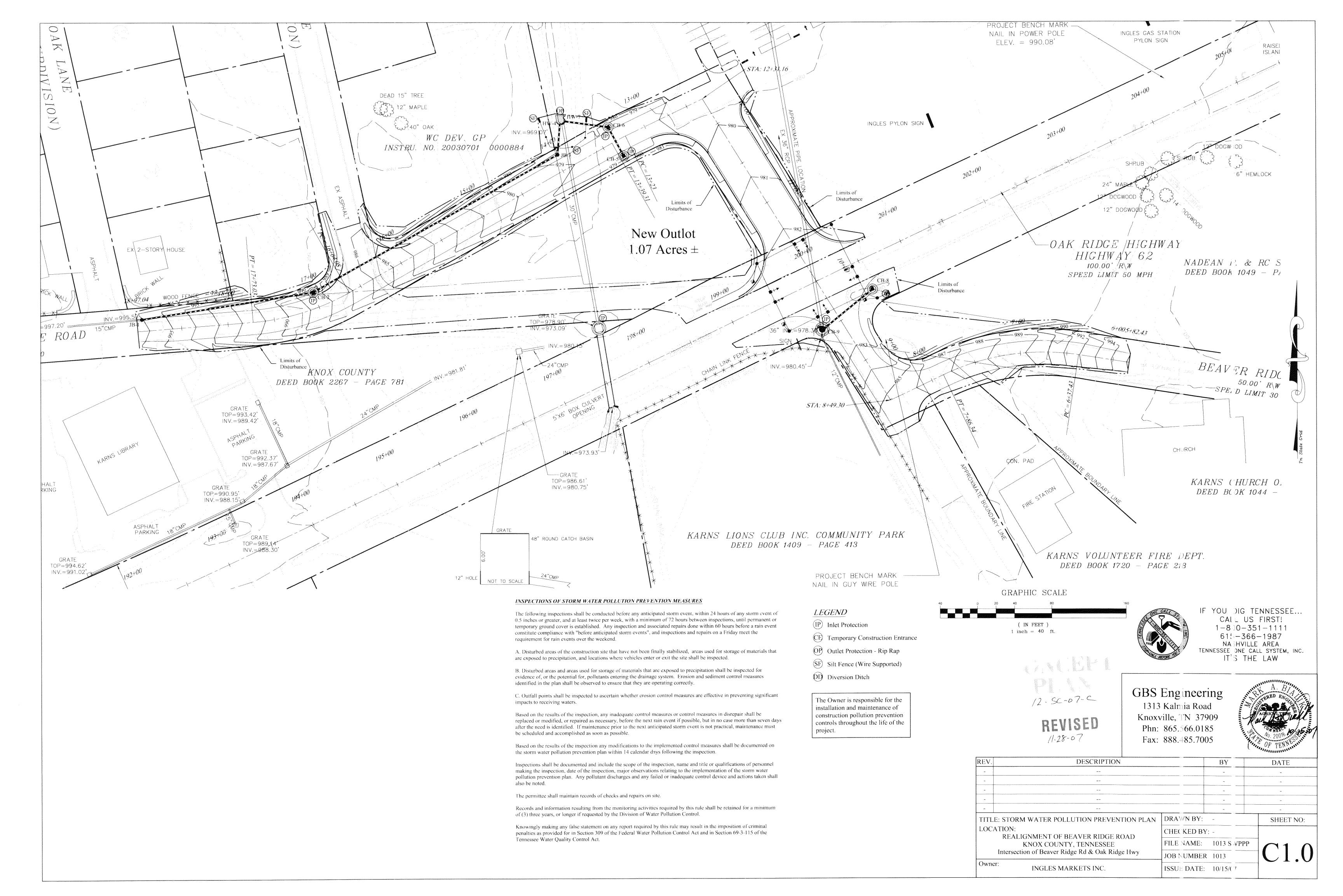
KNOXVILLE, TENNESSEE
Intersection of Beaver Ridge Rd & Oak Ridge Hwy

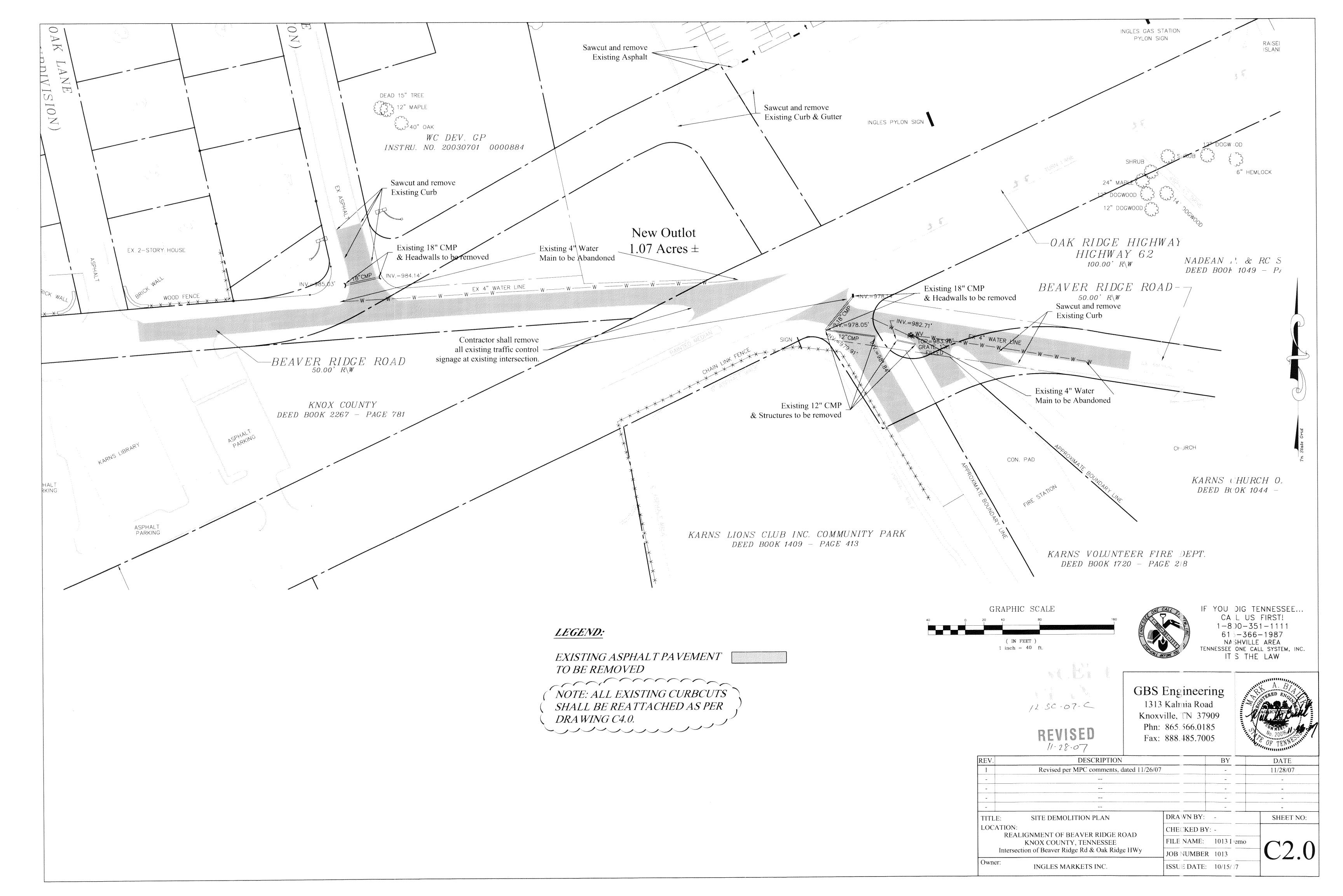
INGLES MARKETS INC.

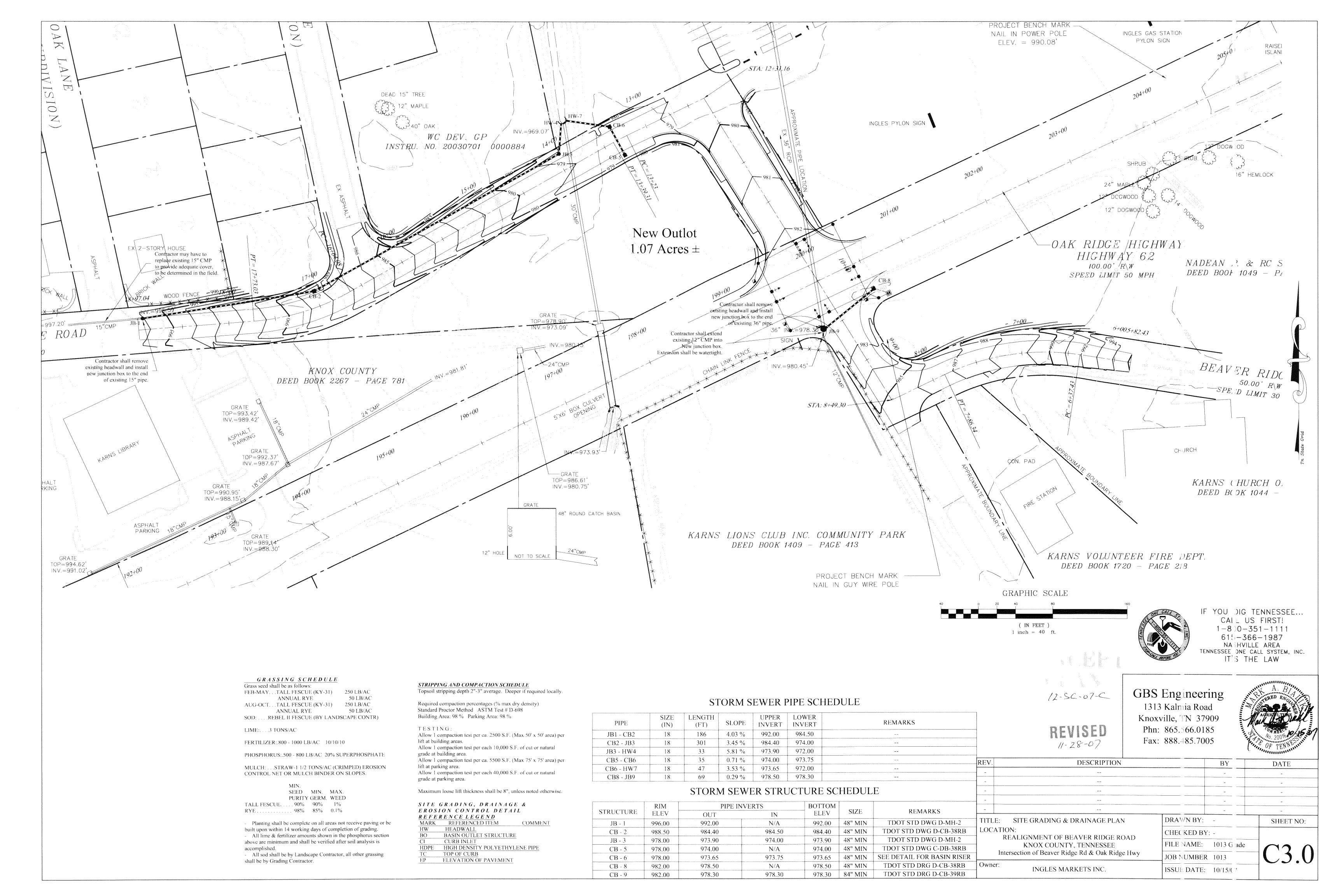
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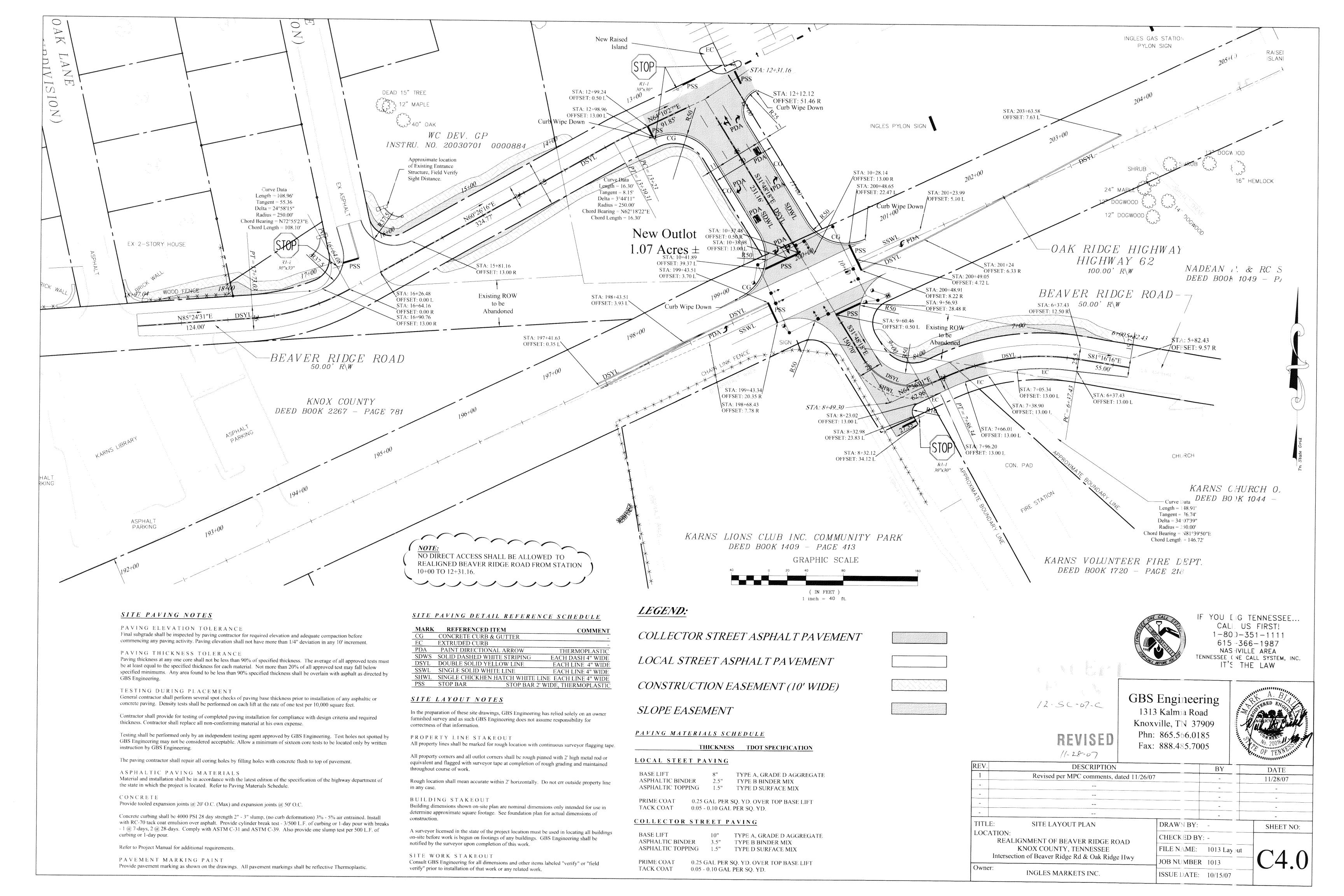
JOB NUMBER 1013

ISSUE DATE: 10/10/0









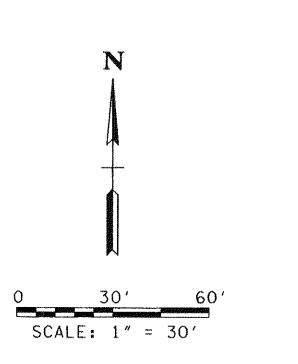
GENERAL NOTES:

- 1. EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE TDOT STANDARD SPECIFICATIONS SECTION 730, "SPECIAL PROVISIONS REGARDING SECTION 730K-TRAFFIC SIGNALS", TDOT STANDARD ROADWAY AND STRUCTURE DRAWINGS (SHEETS T-SG-1 THRU T-SG-13), AND THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. THE SIGNAL CONTROLLER SHALL BE A PEEK TRANSYT 3000E, WITH 8 PHASE PAD MOUNTED CABINET, COMPLETE WITH PANELS, WIRING, AND OTHER INCIDENTALS REQUIRED FOR FUTURE CLOSED LOOP
- 3. THE CONTRACTOR SHALL NOTIFY CANNON & CANNON, INC. (ALAN CHILDERS, 865-670-8555) OF THE DATE AND TIME OF THE PROJECT FINAL INSPECTION. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE DAYS PRIOR TO THE INSPECTION.
- 4. ANY DISTURBED AREA DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR AS ACCEPTABLE BY KNOX COUNTY.
- 5. ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY
- THE SIGNAL SHALL FLASH FOR A MINIMUM OF SEVEN DAYS AND A MAXIMUM OF FOURTEEN DAYS PRIOR TO FULL ACTIVATION.
- 7. SIGNS W3-3 WITH FLAGS AND "NEW" PLATE SHALL BE INSTALLED ON OAK RIDGE HIGHWAY 500 FT. IN ADVANCE OF THE STOP BAR. THESE TEMPORARY SIGN ASSEMBLIES SHALL BE INSTALLED PRIOR TO SIGNAL ACTIVATION, AND THE FLAGS AND "NEW" PLATES SHALL BE REMOVED AFTER EIGHT WEEKS. SIGN FACES SHALL BE MINIMUM HIGH INTENSITY GRADE, AND ALL SIGN MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 713 OF THE TOOT STANDARD SPECIFICATIONS.
- 8. ALL LED INDICATIONS SHALL MEET THE CURRENT MINIMUM STANDARDS PUBLISHED BY THE INSTITUTE OF TRANSPORTATION ENGINEERS. INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE AND COMPATIBILITY WITH CONFLICT MONITORS AND LOAD SWITCHES SHALL BE TESTED AND CONFIRMED. MANUFACTURER SHALL PROVIDE A MINIMUM FIVE YEAR WARRANTY FOR OPERATION OF THE UNIT.
- CONTRACTOR SHALL REMOVE EXISTING STOP SIGNS ON BEAVER RIDGE ROAD AT OAK RIDGE HIGHWAY IMMEDIATELY AFTER THE SIGNAL IS MADE FULLY OPERATIONAL.

	INTERVAL								
TIMING PHASE	INIT.	PASS.	YELL.	RED CLR.	MAX 1	MAX 2	PED WALK	PED CLR.	RECALL
į.	5.0	2.5	4.0	1.0	10	10			
2	25.0	2.0	4.5	1.5	50	50	77.		MIN.
4	8.0	3.0	4.0	1.5	15	15			
5	5.0	2.5	4.0	1.0	10	10			**************************************
6	25.0	2.0	4.5	1.5	50	50			MIN.
8	8.0	3.0	4.0	1.5	15	15			

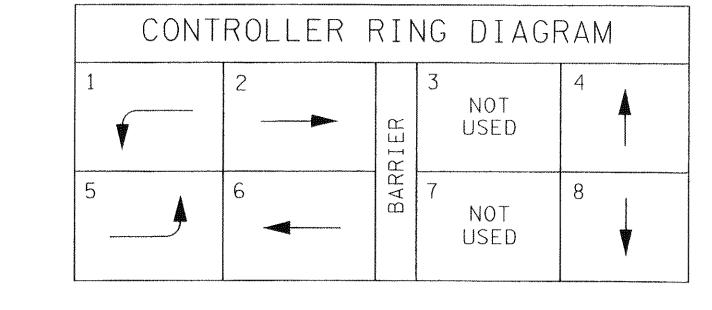
- SPECIAL PROGRAMMING AND NOTES:
- 1. PROGRAM 'PASSAGE SEQUENTIAL' AS INACTIVE (N).
- 2. PROGRAM 'OMIT PHASE 1 BY PHASE 2 ON' AND 'OMIT PHASE 5 BY PHASE 6 ON'.
- OTHER REQUIRED SETTINGS AND FUNCTIONS SHALL BE APPROPRIATE VALUES AS RECOMMENDED BY THE CONTROLLER MANUFACTURER.

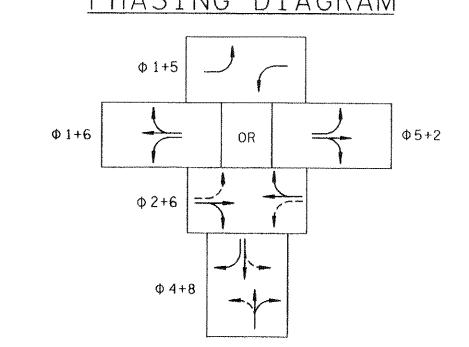
GRASS AREA



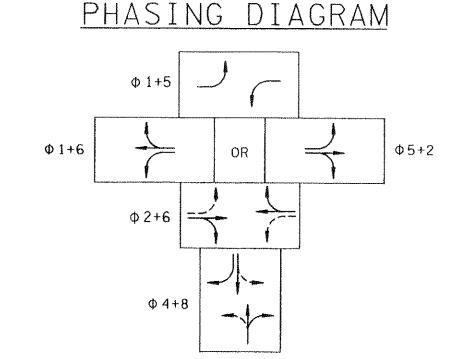
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POLE A





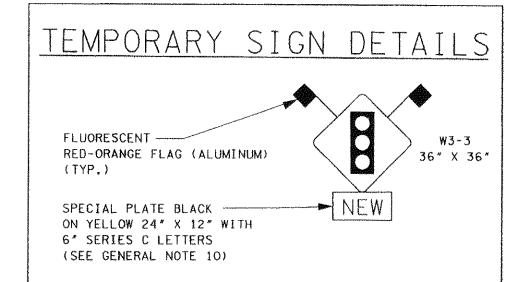
- /-- PERMITTED, BUT NOT PROTECTED VEHICULAR
- ALL CLEARANCES SHALL BE IN ACCORDANCE WITH THE MUTCD.



NOTES:

GRASS ARE,

- MOVEMENT.
- FLASHING OPERATION: RED BALL FOR HEADS 4 AND 8; YELLOW BALL FOR HEADS 5/2, 1/6, 2, AND 6.



SIGNAL HEAD DETAILS \bigcirc (h) (i) 1/6 5/2

ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH WITH

BLACK HOUSINGS AND 5-INCH LOUVERED BACKPLATES.

DISPLAYS SHALL BE L.E.D. TYPE.

DETECTOR LOOP SCHEDULE

UNIT NO.	CONNECTED TO LOOP	LOOP SIZE	WIRE RUNS	CONNECTED TO PHASE	DETECTOR OUTPUT	DELAY SETTING
1	1-1	6′X50′	2	1	DELAY/NORMAL	3.0 SEC.
2	2-1,2-2	6'X6'	4	2	NORMAL	-
3	4 – 1	6'X50'	2	4	DELAY/NORMAL	5.0 SEC.
4	5-1	6'X50'	2	5	DELAY/NORMAL	3.0 SEC.
5	6-1,6-2	6′X6′	4	6	NORMAL	***
6	8-1	6′X50′	2	8	DELAY/NORMAL	10.0 SEC
7	8-2	6′X50′	2	8	DELAY/NORMAL	3.0 SEC.

DETECTOR UNITS WITH OUTPUT SPECIFIED AS DELAY/NORMAL SHALL HAVE A TIME DELAYED OUTPUT WHEN ASSOCIATED PHASE NOT GREEN, DELAY SETTINGS AS SPECIFIED. OUTPUT SHALL BE NORMAL WHEN ASSOCIATED PHASE IS GREEN.

2. ALL DETECTOR UNITS SHALL OPERATE IN CONTINUOUS-PRESENCE MODE,

3. ALL 6'X50' LOOPS SHALL BE QUADRUPOLE TYPE.

WITH MEMORY PROGRAMMED AS "OFF" (INACTIVE).

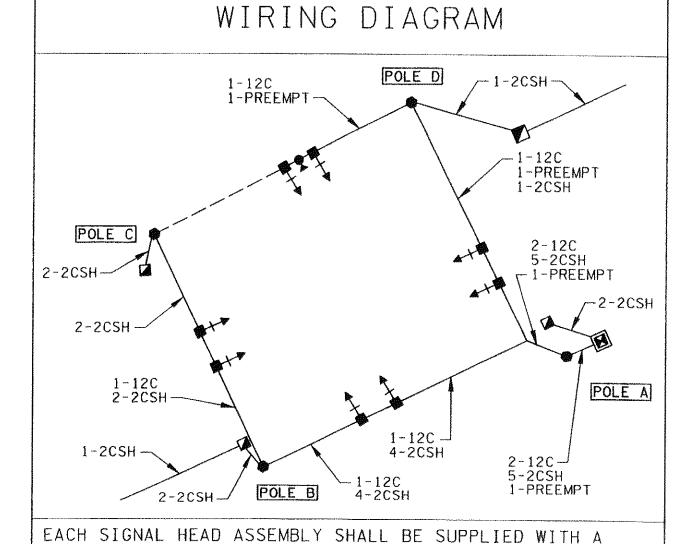
SPAN AND POLE DATA

SPAN	POINT OF ATTACHMENT	POLE	STATION	OFFSET	FOOTING DEPTH
A-B	29′	A	9+50.00	46' RT.	SEE NOTE 4
B-C	29′	В	9+70.00	53′ LT.	SEE NOTE 4
C-D	29′	С	10+50.00	44' LT.	SEE NOTE 4
D-A	29′	D	10+43.00	46′ RT.	SEE NOTE 4

NOTES:

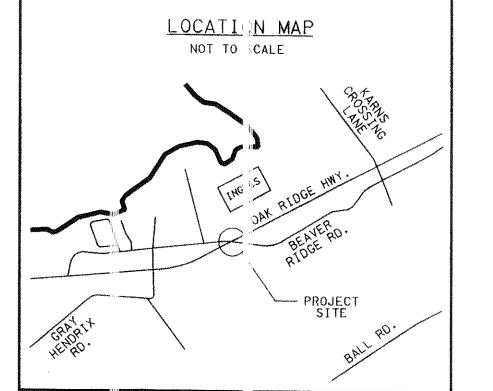
5/2

- POINT OF ATTACHMENT IS ELEVATON DIFFERENCE BETWEEN SPAN TIE-IN POINT ON POLE AND MAXIMUM PAVEMENT ELEVATION UNDER SPAN.
- ACTUAL POLE PLACEMENT LOCATION MAY VARY FROM THAT SHOWN ON THESE PLANS. THEREFORE SHAFT LENGTH AND LOCATION OF SPAN TIE-IN POINT MAY ALSO VARY DEPENDING ON THE GROUND ELEVATION AT THE ACTUAL POLE PLACEMENT LOCATION. THE CONTRACTOR SHALL DETERMINE GROUND LINE ELEVATIONS. REQUIRED SHAFT LENGTHS. AND REQUIRED LOCATIONS OF SPAN TIE-IN POINT PRIOR TO ORDERING
- POLES. 3. STATION AND OFFSET ARE BASED ON THE PROPOSED CENTERLINE OF BEAVER
- SPAN WIRE SUPPORT CABLE SHALL BE MINIMUM % INCH DIAMETER AND SHALL PROVIDE MINIMUM BREAKING STRENGTH OF 10,000 LBS.
- FINAL DESIGN OF POLES AND FOUNDATIONS ARE THE RESPONSIBILITY OF THE POLE MANUFACTURER AND CONTRACTOR.



EACH SIGNAL HEAD ASSEMBLY SHALL BE SUPPLIED WITH A 12-POSITION QUICK DISCONNECT HANGER WIRED AS FOLLOWS: POSITION CONDUCTOR COLOR PHASE INDICATION

#2 OR #6 GREEN BALL #2 OR #6 YELLOW BALL
#2 OR #6 RED BALL
#4 OR #8 GREEN BALL OR SPARE **ORANGE** #4 OR #8 YELLOW BALL OR SPARE #4 OR #8 RED BALL OR SPARE WHITE/BLACK GREEN/BLACK ORANGE/BLACK RED/BLACK *1 OR *5 GREEN ARROW OR SPARE *1 OR *5 YELLOW ARROW OR SPARE BLUE/BLACK BLACK/WHITE A.C. NEUTRAL



UTILITY AND TRAFF C CONTROL NOTES

- . THE LOCATIONS OF UTILITIES AND UNDERGROUND *STRUCTURES SHOWN ON THE E PLANS ARE APPROXIMATE ONLY AND NOT ALL HAVE BEEN SHOWN. THE INSTALLER SHALL COCADINATE WITH UTILITY AND PROPERTY OWNERS AS REQUIRED TO IDENTIFY, RELOCATE, AND PROTECT FLATURES AS NECESSARY PRIOR TO EQUIPMENT INSTILLATION. SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC. 1-800 351-1111.
- 2. THE COST OF ANY DAMAGE TO UTILITY FACILITIES SHALL SE BORNE BY THE I STALLER.
- INSTALLER SHALL COORDINATE WITH THE LOCAL ELECTRIC UTILITY WITH REGARD TO PROVIDING ELECTRICAL SERVICE CONNECTION.
- TEMPORARY TRAFFIC CONTRIL DEVICES AND MEASURES SHALL BE PROVIDED DURING CONSTRUCTION IN FULL COMPLIANCE WITH THE LATEST EDITION OF "THE MANUAL ON UNIFORM TRAFFIG CONTROL DEVICES .
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATIO CONDITIONS ARE PRESENT NECESSITATING WARNING.

SIGNALIZATION LEGEND

SIGNAL SUPLORT POLE (STEEL) SIGNAL HEAL WITH BACKPLATE

AND ASSOCIATED PHASE PAD MOUNT (ABINET AND CONTROLLER

STOP BAR LOP DETECTOR WITH

LEAD-IN ANI LOOP NUMBER PULLBOX

UNDERGROUNE CONDUIT (SIZE)

EMERGENCY \ EHICLE PREEMPT

12-5C-07-C

11-28-07 REVISIONS DATE

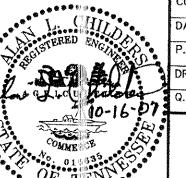


Cannon & Cannon, Inc. 9724 Kingston Pike Sulte 1100, Franklin Squ⊕e Telephone: (865) 670-8555 Knoxville, Tennessee 37 ©2 Fax: (865) 670-8866

INGLES MARKSTS, INC. P.O. BOX 6676 ASHEVILLE, NORTH (AROLINA 28816

REALIGNMENT OF BEAVER RIDGE ROAD AT OAK RIDGE HIGHWAY KNOX COUNTY, TENNESSEE

TRAFFIC SIGNAL PLAN



318-0002 10-15-07 JCE

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