

Index Of Sheets  
SEE SHEET 1A

# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

## LINCOLN COUNTY

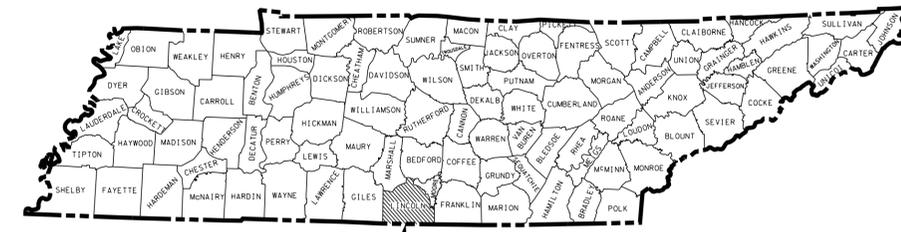
SR-15 (WILSON PKWY, US-64 BYPASS),  
INTERSECTION AT GOODMAN MANUFACTURING PLANT ENTRANCE

### CONSTRUCTION

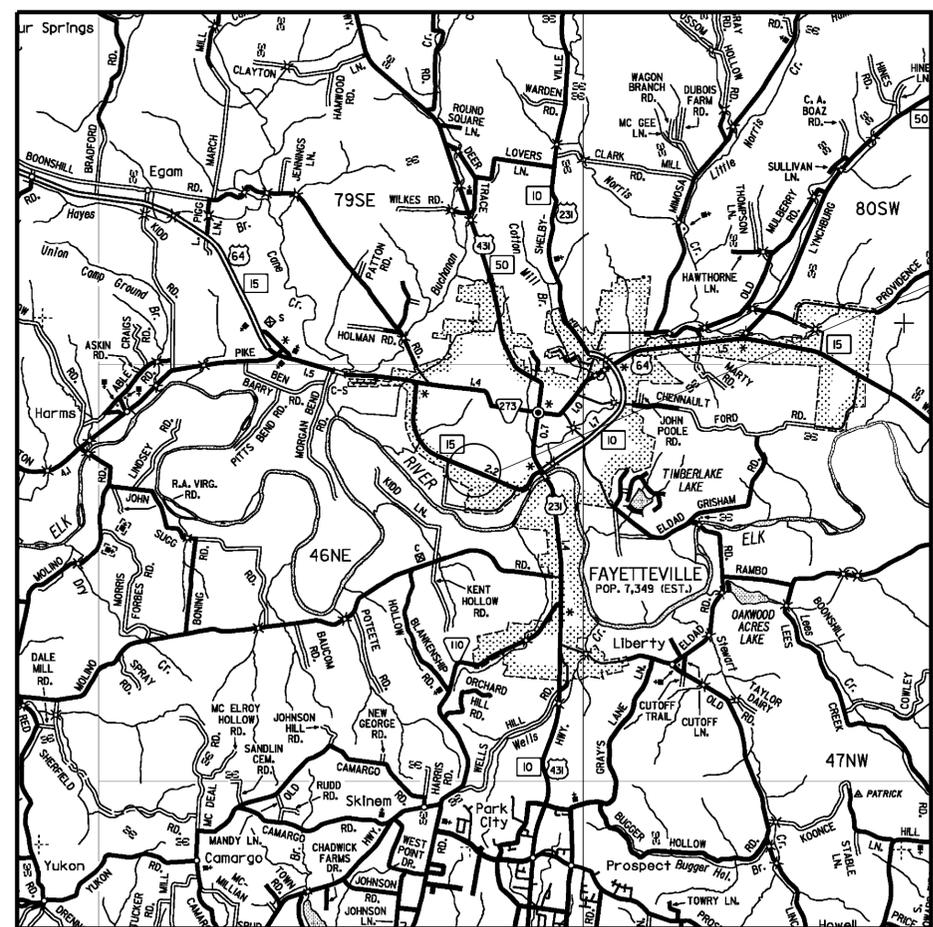
STATE HIGHWAY NO. 15 F.A.H.S. NO. 15

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	STP-M-NHE-15(179)	
STATE PROJ. NO.	52004-3228-94	

REV. 03-24-14: YEAR WAS CHANGED.



PROJECT LOCATION



**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY

NO EXCLUSIONS  
NO EQUATIONS

NO R.O.W. REQUIRED

APPROVED: *Paul D. Degges*  
PAUL D. DEGGES, CHIEF ENGINEER

DATE: \_\_\_\_\_

APPROVED: *John Schroer*  
JOHN SCHROER, COMMISSIONER

**SPECIAL NOTES**

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT C.E. MANAGER 1 ROLAND L. JONES, P.E.  
DESIGNED BY SAIN ASSOCIATES, INC.  
DESIGNER SCOTT COTHORN, P.E. CHECKED BY JEFFREY D. STEPHENSON, P.E., P.T.O.E.  
P.E. NO. 52004-1228-94  
PIN NO. 118932.00

ROADWAY LENGTH	0.000 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.000 MILES

SCALE: 1" = 1 MILE

TRAFFIC DATA	
ADT (2014)	10,020
ADT (2019)	10,520
DHV (2019)	1,185
D	55 - 45
T (ADT)	10 %
T (DHV)	7 %
V	40 MPH

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-M-NHE-15(179)	1A

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NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS	

## STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
<b>ROADWAY DESIGN STANDARDS</b>		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
<b>TRAFFIC CONTROL APPURTENANCES</b>		
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-15-13	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-4	11-01-11	STANDARD INTERSECTION PAVEMENT MARKINGS
T-S-9	11-01-11	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-16	11-01-11	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-SG-2	07-29-04	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	11-11-04	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A		ALTERNATE DETECTION DETAILS
T-SG-5	07-29-04	CONTROLLER CABINET DETAILS
T-SG-7	11-01-11	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON SIGNS
T-SG-7A	11-01-11	TYPICAL SIGNAL HEAD PLACEMENT
T-SG-9	11-16-07	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A		MISCELLANEOUS SIGNAL DETAILS
T-SG-10	05-06-13	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-12	11-01-11	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-40	04-02-12	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	04-02-12	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-51	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON 4 OR 5 LANE MAJOR ROUTES

DWG. NO	REV.	DESCRIPTION
<b>EROSION PREVENTION AND SEDIMENT CONTROL</b>		
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS

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DEPARTMENT OF TRANSPORTATION

**INDEX  
AND  
STANDARD  
DRAWINGS**

**ESTIMATED ROADWAY QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
12.	203-03 BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	10
	209-05 SEDIMENT REMOVAL	C.Y.	25
1.	209-08.03 TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	1000
12.	709-05.05 MACHINED RIP-RAP (CLASS A-3)	TON	10
	712-01 TRAFFIC CONTROL	LS	1
2.	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	50
	712-06 SIGNS (CONSTRUCTION)	S.F.	304
	712-08.03 ARROW BOARD (TYPE C)	EACH	2
	713-02.21 SIGN POST DELINEATION ENHANCEMENT	L.F.	12
14.	713-15.01 REMOVAL OF EXISTING SIGN POST	EACH	1
11.	713-16.20 SIGNS (W3-3, 36"X36")	EACH	2
	716-01.21 Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color)	EACH	37
	716-01.22 Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color)	EACH	28
3. 4.	716-02.04 PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	20
3. 4.	716-02.05 PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	86
3. 4.	716-02.06 PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	2
	716-08.20 REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	0.25
	716-12.01 ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	0.5
5.	730-02.09 SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	5
5.	730-02.30 SIGNAL HEAD ASSEMBLY (150A2-LEFT WITH BACKPLATE)	EACH	1
	730-03.20 INSTALL PULL BOX (TYPE A)	EACH	3
	730-03.21 INSTALL PULL BOX (TYPE B)	EACH	4
6.	730-05.01 ELECTRICAL SERVICE CONNECTION	EACH	1
	730-08.03 SIGNAL CABLE - 7 CONDUCTOR	L.F.	620
	730-11.01 STEEL CONDUIT RISER ASSEMBLY	EACH	1
	730-12.01 CONDUIT 1" DIAMETER (PVC)	L.F.	565
	730-12.02 CONDUIT 2" DIAMETER (PVC)	L.F.	115
7.	730-12.07 CONDUIT 1" DIAMETER (RGS)	L.F.	35
	730-12.14 CONDUIT 3" DIAMETER (JACK AND BORE)	L.F.	175
	730-13.01 VEHICLE LOOP DETECTOR (SHELF MOUNT)	EACH	5
8.	730-13.08 VEHICLE DETECTOR (MICROWAVE)	EACH	1
	730-14.01 SHIELDED DETECTOR CABLE	L.F.	1710
	730-14.02 SAW SLOT	L.F.	390
9.	730-14.03 LOOP WIRE	L.F.	1010
	730-15.32 CABINET (EIGHT PHASE BASE MOUNTED)	EACH	1
10.	730-16.02 EIGHT PHASE ACTUATED CONTROLLER	EACH	1
	730-16.25 INSTALLATION OF CABINET AND CONTROLLER	EACH	1
	730-21.10 WOOD POLE (POWER SOURCE)	EACH	1
	730-23.80 CANTILEVER SIGNAL SUPPORT (1 ARM @ 40')	EACH	1
	730-23.96 CANTILEVER SIGNAL SUPPORT (2 @ 55' & 60')	EACH	1
	801-03 WATER (SEEDING & SODDING)	M.G.	3
13.	803-01 SODDING (NEW SOD)	S.Y.	280

FOOTNOTES:

- SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- LANE CLOSURES FOR DAYTIME OPERATIONS CAN BE ACCOMPLISHED WITH CONES.
- EXISTING STRIPING THAT CONFLICTS WITH PROPOSED STRIPING TO BE REMOVED BY GRINDING AND IS INCLUDED UNDER ITEM 716-08.20.
- THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE BID FOR THERMOPLASTIC.
- ALL SIGNAL INDICATIONS SHALL BE LED TYPE AS SHOWN AND AS NOTED ON THE PLANS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 730-05.01 FOR PAYMENT BY THE CONTRACTOR. INCLUDES A 50 AMP, 2 POLE WEATHERPROOF EXTERNAL DISCONNECT. ENCLOSURE SHALL BE METALLIC WITH A 50 AMP SINGLE POLE CIRCUIT BREAKER.
- INCLUDES 1" (RGS) CONDUIT FROM THE UTILITY POLE TO CONTROLLER FOR AC SERVICE.
- INCLUDES ALL INCIDENTAL AND AUXILIARY EQUIPMENT (INCLUDING WIRING AND CONNECTION HARDWARE) NECESSARY FOR INSTALLATION AND OPERATION.
- DETECTOR LOOPS SHALL BE INSTALLED IN ACCORDANCE WITH T.D.O.T. STANDARD DRAWING T-SG-3 UNLESS OTHERWISE NOTED. LOOP SHALL BE SEALED WITH APPROVED LOOP SEALANT AND INSTALLED WITHOUT FLEXIBLE TUBE OR BACKER ROD.
- THE TRAFFIC CONTROLLER FURNISHED BY THE CONTRACTOR SHALL BE COMPLETE WITH ALL INCIDENTAL AND AUXILIARY EQUIPMENT (CONFLICT MONITOR AND HARDWARE) NECESSARY FOR INSTALLATION AND OPERATION EITHER AS A REMOTE LOCATION OR AS PART OF A SYSTEM ON INTERSECTIONS. ALL WIRING AND EQUIPMENT NECESSARY TO ACTIVATE THE SIGNAL HEADS AND OPERATE THE TRAFFIC SIGNAL AS SPECIFIED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- INCLUDES THE COST OF TYPE P3 SIGN POSTS.
- BORROW EXCAVATION AND MACHINED RIP-RAP TO BE USED AS DIRECTED BY ENGINEER TO SET SIGNAL CABINET.
- NEW SODDING TO BE PLACED AT LOCATIONS DISTURBED BY CONDUIT, POLE, AND CABINET PLACEMENT.
- REMOVE EXISTING STOP SIGN AT GOODMAN ENTRANCE AFTER ACTIVATION OF TRAFFIC SIGNALS.

**SUMMARY OF QUANTITIES - ITEM NO. 712-06**

M.U.T.C.D. NO.	DESCRIPTION	QUANTITY	SIZE	AREA (S.F.)
G20-2	END ROAD WORK	2	36"x18"	9
R3-8M	Intersection Lane Control	1	30" x 30"	7
W4-2R	Lane Ends	1	48"x48"	16
W4-2L	Lane Ends	1	48"x48"	16
W20-1	ROAD WORK AHEAD	2	48"x48"	32
W20-1	ROAD WORK 500 FT	2	48"x48"	32
W20-1	ROAD WORK 1000 FT	2	48"x48"	32
W20-1	ROAD WORK 1500 FT	2	48"x48"	32
W20-1	ROAD WORK 1/2 MILE	2	48"x48"	32
W20-1	ROAD WORK 1 MILE	2	48"x48"	32
W20-5R	RIGHT LANE CLOSED 1000 FT	1	48"x48"	16
W20-5L	LEFT LANE CLOSED 1000 FT	1	48"x48"	16
W20-7a	FLAGGER AHEAD	2	48"x48"	32
				<b>304</b>

ITEM 712-06 SIGNS (CONSTRUCTION INCLUDES SIGNS SHOWN AND IS CONSIDERED A MINIMUM. ADDITIONAL SIGNS MAY BE REQUIRED BY THE ENGINEER AND WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 712-06.

SIGNS SHALL BE LOCATED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

CONSTRUCTION SIGNING AND TRAFFIC CONTROL SHALL CONFORM TO PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND SECTION 712 OF THE TENNESSEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."

CONTRACTOR IS NOT RELIEVED OF ANY RESPONSIBILITY TO PROVIDE ADEQUATE AND SAFE TRAFFIC CONTROL MEASURES BY THE ABOVE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-M-NHE-15(179)	2

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DEPARTMENT OF TRANSPORTATION

**ESTIMATED  
ROADWAY  
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-M-NHE-15(179)	2A

## GENERAL NOTES

### SEEDING AND SODDING

- (1) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

### UTILITIES

- (1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

### MISCELLANEOUS

- (1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

### PAVEMENT MARKINGS

#### FINAL PAVEMENT MARKING IF 4" ENHANCED FLATLINE THERMOPLASTIC IS USED

- (1) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.01, ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

### SIGNING

- (1) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- (2) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.
- (3) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

### SIGNALIZATION

- (1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.
- (2) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.
- (3) SIGNAL HEADS SHALL FLASH A MINIMUM OF SEVEN (7) DAYS PRIOR TO ACTIVATION OF THE SIGNAL.

### CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

### EROSION PREVENTION AND SEDIMENT CONTROL

#### DISTURBED AREA

- (1) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- (2) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.
- (3) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- (4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.
- (5) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

#### SEDIMENT CONTROL

- (6) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- (7) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

### INSPECTION, MAINTENANCE, REPAIR

- (8) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

- (9) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.
- (10) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

### MATERIALS

- (11) WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

### LITTER, DEBRIS, WASTE, PETROLEUM

- (12) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.
- (13) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

## SPECIAL NOTES

### SIGNALIZATION

- (1) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.
- (2) ALL CIRCULAR AND ARROW INDICATIONS WITHIN ALL VEHICULAR SIGNAL HEADS PROPOSED FOR THIS PROJECT SHALL CONSIST OF AN LED (LIGHT EMITTING DIODE) SIGNAL MODULE UNLESS OTHERWISE NOTED IN THE PLANS.
- (3) CIRCULAR INDICATIONS SHALL MEET "ITE VTC SH-LED CIRCULAR SIGNAL SUPPLEMENT" FOR EXPANDED/EXTENDED VIEW.
- (4) ARROW INDICATIONS SHALL MEET "ITE VTC SH-3 LED ARROW SPECIFICATION" FOR EXPANDED/EXTENDED VIEW.
- (5) INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE.
- (6) COMPATIBILITY WITH CONFLICT MONITORS AND LOAD SWITCHES SHALL BE TESTED AND CONFIRMED.
- (7) DETECTION ZONE LOCATIONS SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

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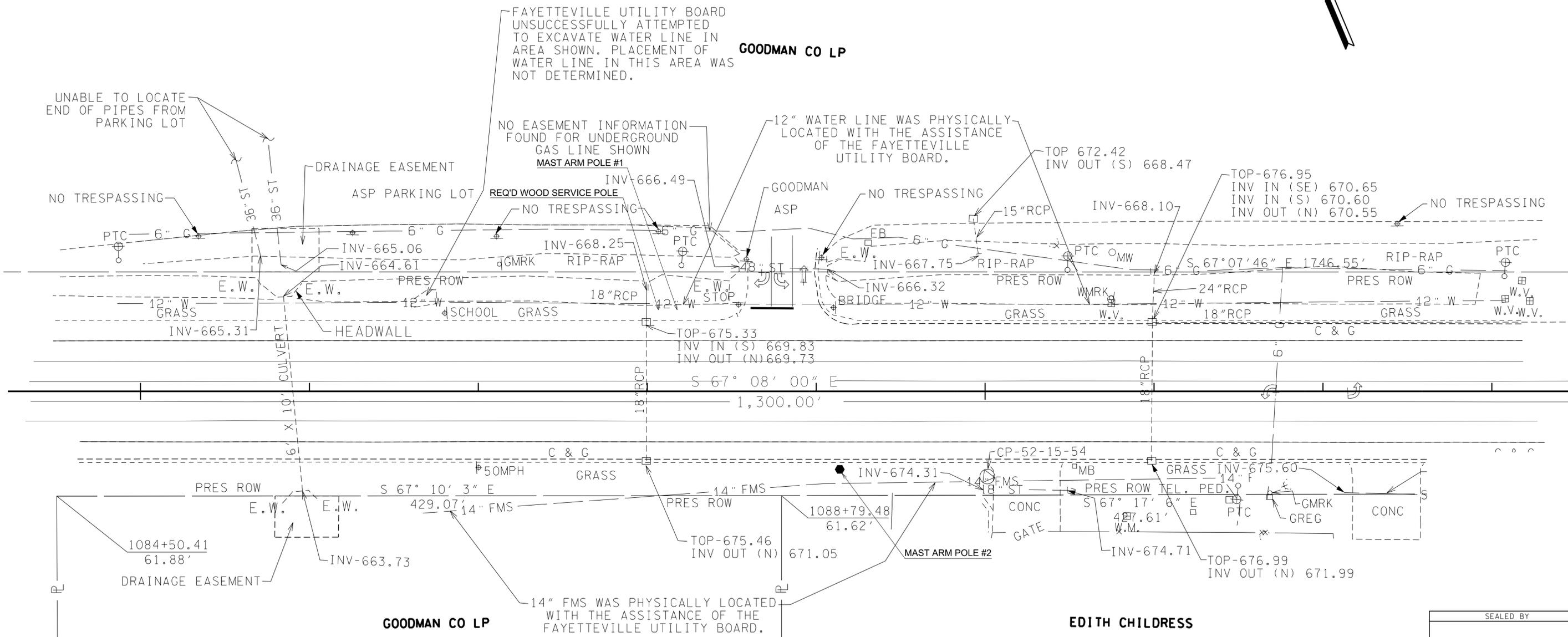
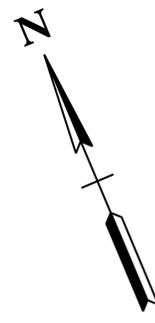
**GENERAL NOTES  
AND  
SPECIAL NOTES**

1085

1090

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	STP-M-NHE-15(179)	2
CONST.	2014	STP-M-NHE-15(179)	3

REV. 03-24-14: UTILITIES WERE LOCATED, SERVICE POLE WAS MOVED, AND YEAR WAS CHANGED.



POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	FEATURE
52-15-53	295405.15	1793657.31	673.86	1083+31.45	46.12' (RT)	XCP
52-15-54	295141.00	1794272.87	676.64	1090+01.28	50.30' (RT)	XCP
52-15-55	294948.89	1794722.09	681.87	1094+89.85	52.76' (RT)	XCP

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TYPE	OWNER	OWNER'S ADDRESS	CONTACT	TELEPHONE
Telephone	Bellsouth	N/A	Lee Kornagay	615-848-2082
Cable	Charter Communications	1235 King Street SE Cleveland, TN 37323-0656	Jeff Cook	423-790-1508
Water	Fayetteville Public Utilities	408 West College Street Fayetteville, TN 37334	N/A	931-433-1522
Gas	Fayetteville Public Utilities	408 West College Street Fayetteville, TN 37334	N/A	931-433-1522
Sewer	Fayetteville Public Utilities	408 West College Street Fayetteville, TN 37334	N/A	931-433-1522
Power	Fayetteville Public Utilities	408 West College Street Fayetteville, TN 37334	N/A	931-433-1522

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**PRESENT  
LAYOUT**

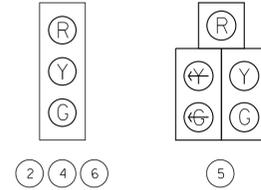
SR-15 @ GOODMAN  
SCALE: 1"=30'



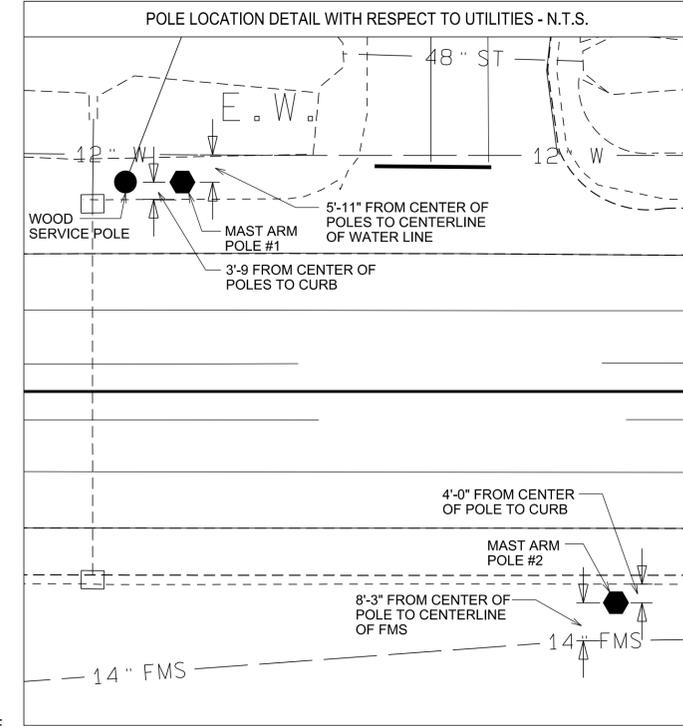
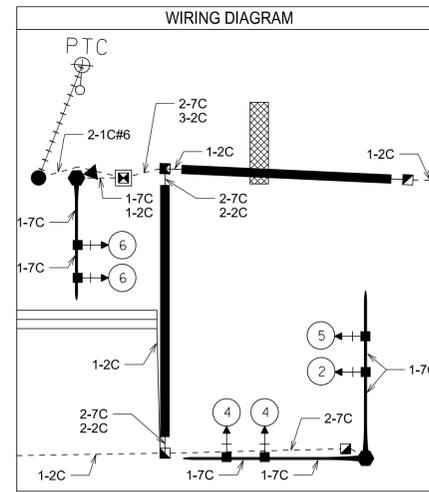
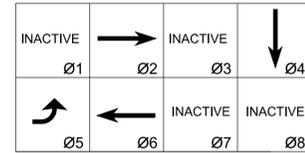
SIGNAL SUPPORT POLE DATA								
POLE NO.	STATION	OFFSET	NORTHING	EASTING	GROUND ELEV. @ POLE	ARM ELEV.	ARM LENGTH	FOOTING DEPTH
1	1088+19	L 45.7	295300.25	1794142.30	675.4	695.4	40'	15'
2	1089+14	R 46.1	295178.80	1794194.03	676.1	696.1	55', 60'	15'

1085

PROPOSED SIGNAL HEADS

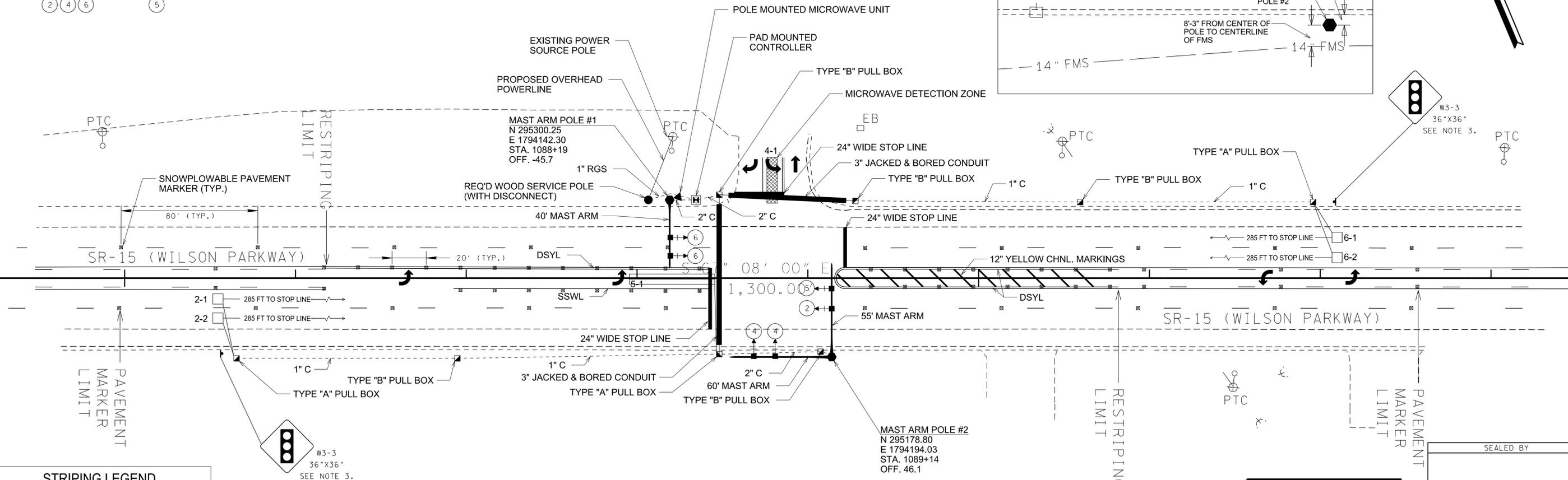
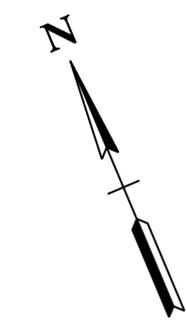


SIGNAL PHASING DIAGRAM



TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	STP-M-NHE-15(179)	3
CONST.	2014	STP-M-NHE-15(179)	4

REV. 03-24-14: UTILITIES WERE LOCATED, SERVICE POLE WAS MOVED, DETAIL OF POLE LOCATIONS WAS ADDED, PROPOSED SIGNAL HEAD WAS CHANGED, SIGNAL PHASING DIAGRAM WAS CHANGED, AND YEAR WAS CHANGED.



**STRIPING LEGEND**

DSYL	REQUIRED: DOUBLE SOLID YELLOW LINE
SSWL	REQUIRED: 4" SINGLE SOLID WHITE LINE

BASIC OR SEMI-ACTUATED TIMINGS (SECONDS)

PHASE	MINIMUM GREEN	PASSAGE TIME	MAX 1	CLEARANCE		RECALL TO	MEMORY POSITION (1)	LEFT TURN OPERATION (2)
				YELLOW	ALL RED			
4	4.0	3.0	24	4.0	2.0		NL	P/P
5	4.0	3.0	8	4.0	2.0		NL	P/P

THESE TIMINGS ARE INITIAL AND MAY BE ADJUSTED BY THE CONTRACTOR BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.

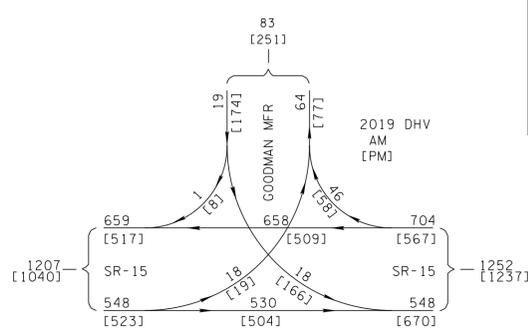
- (1) NL = NON LOCK  
L = LOCK
- (2) PERM = PERMITTED  
PROT = PROTECTED  
P/P = PROT/PERM

VOLUME - DENSITY TIMING (SECONDS)

PHASE	MINIMUM INITIAL	MAXIMUM INITIAL	ADDED INITIAL	INITIAL GAP	TIME BEFORE REDUCTION	TIME TO REDUCE	MINIMUM GAP	MAX 1	CLEARANCE		RECALL TO	MEMORY POSITION (1)
									YELLOW	ALL RED		
2	15	26	2.3	4.3	20.0	20.0	2.0	60	4.0	2.0	MIN	NL
6	15	26	2.3	4.3	20.0	20.0	2.0	60	4.0	2.0	MIN	NL

NOTES:

- INSTALL LEFT TURN LANE STRIPING ON EASTBOUND SR-15 AND CHANNELIZATION STRIPING ON WESTBOUND SR-15. REMOVE BY GRINDING ANY EXISTING STRIPING THAT CONFLICTS WITH PROPOSED STRIPING.
- INSTALL THERMOPLASTIC STOP LINES AT THE INTERSECTION OF SR-15 AND GOODMAN ENTRANCE.
- INSTALL ONE (1) CURRENT MUTCD 36"x36" SIGNAL HEAD SIGN (W3-3) ON SR-15 AT STATION 1085+55 RT. AND STATION 1092+10 LT. INSTALL SIGN POST DELINEATION ENHANCEMENT ON SIGN POSTS. REMOVE ANY EXISTING SIGNING THAT CONFLICTS WITH PROPOSED IMPROVEMENTS.



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**PROPOSED SIGNAL LAYOUT**  
SR-15 (WILSON PKWY, US-64 BYPASS) @ GOODMAN MFR. PLANT  
SCALE: 1"=30'

