Index Of Sheets
SEE SHEET IA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

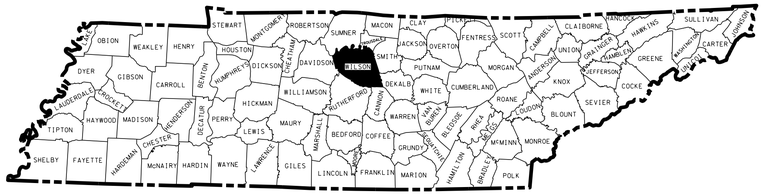
TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	PHSIP/STP-EN-10(47)	
STATE PROJ. NO.	95003-3216-94	

WILSON COUNTY

S.R. 10 (CUMBERLAND STREET) AT
S.R. 24 (MAIN STREET) IN LEBANON

CONSTRUCTION

STATE HIGHWAY NO. 10 F.A.H.S. NO. 231



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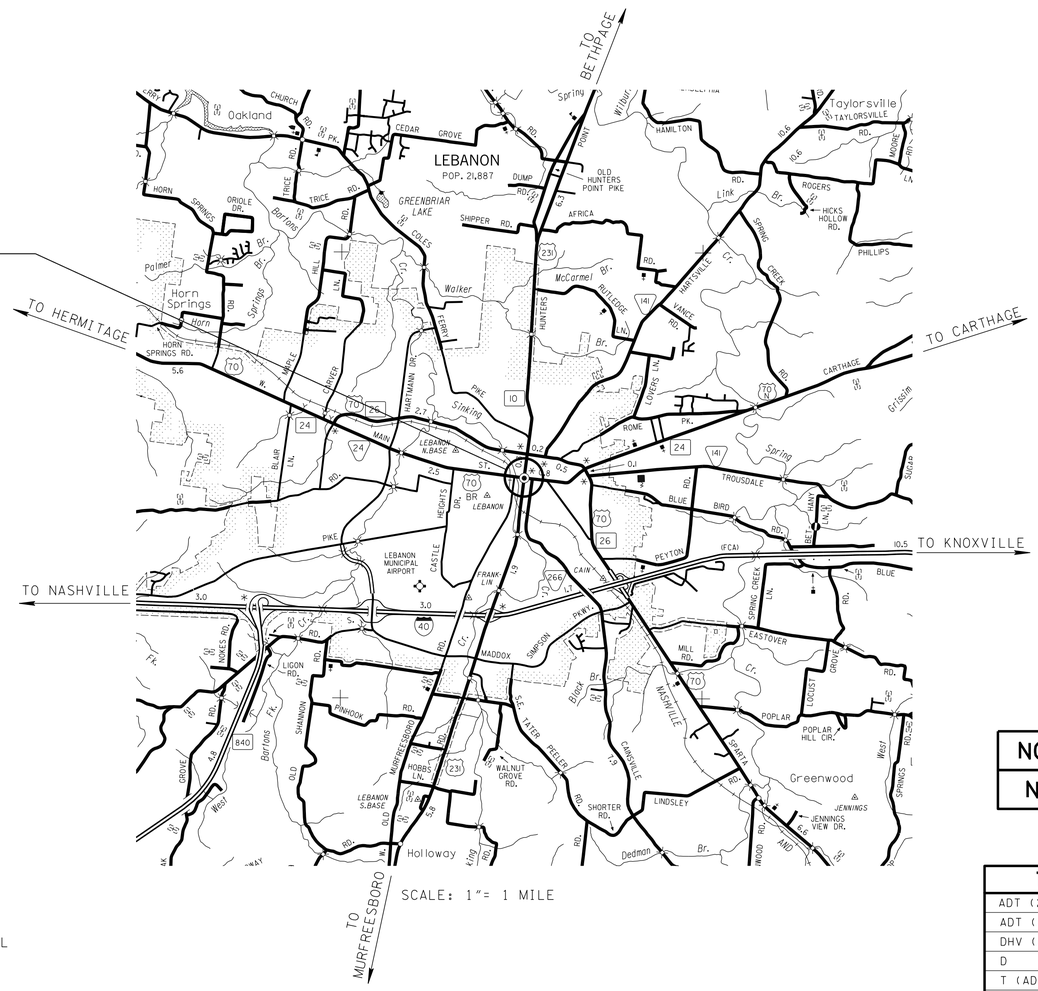
RSAR - PROJECT OF LIMITED SCOPE

PHSIP/STP-EN-10(47)
PROJECT NO. 95003-3216-94 (CONST.)
BEGIN PROJECT STA. 504+00.00
N 682100.4097
E 1882655.3103
END PROJECT STA. 512+00.00
N 682893.7885
E 1882757.8206



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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 SHANE HESTER, P.E.

DESIGNER BRADLEY MARTIN, P.E. CHECKED BY ROBERT BRAUN, P.E.

P.E. NO. 95003-1216-94

PIN NO. 117092.00

ROADWAY LENGTH	0.151 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.151 MILES

NO EXCLUSIONS
NO EQUATIONS

TRAFFIC DATA	
ADT (2014)	10720
ADT (2034)	13940
DHV (2034)	1368
D	55 - 45
T (ADT)	9 %
T (DHV)	6 %
V	20 MPH

SURVEY DATE: 11/14/2013

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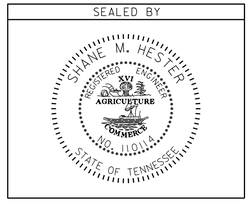

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	1A

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NO PROJECT COMMITMENTS IN THIS SET OF PLANS

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
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
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-TS-9	06-15-12	DESIGN STANDARDS FOR SINGLE LANE URBAN AND RURAL ROUNDABOUTS
DRAINAGE-CATCH BASINS AND MANHOLES		
D-CB-42RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	09-24-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
ROADWAY AND PAVEMENT APPURTENANCES		
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	07-15-08	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-H-3	06-04-13	HANDICAP RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	06-04-13	PERPENDICULAR CURB RAMP
RP-H-5	06-04-13	PARALLEL CURB RAMP
RP-H-8	06-04-13	PERPENDICULAR CURB RAMP TYPE 2
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-R-2		STANDARD CONSTRUCTION DETAILS FOR ROUNDABOUTS
RP-S-7	06-04-13	DETAILS FOR STANDARD CONCRETE SIDEWALKS
TRAFFIC CONTROL APPURTENANCES		
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-3	09-19-91	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-17		PAVEMENT MARKING DETAILS FOR ROUNDABOUTS

DWG. NO	REV.	DESCRIPTION
T-S-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
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-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-23A	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-8	08-01-12	FILTER SOCK
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4

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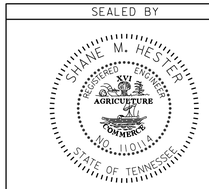

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	PARTICIPATING ITEMS QUANTITY	NON-PARTICIPATING ITEMS QUANTITY	TOTAL QUANTITIY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1		1
1.)	202-01.50	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	EACH		2	2
2.)	202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.		1123	1123
3.)	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.		1302	1302
	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1570		1570
	203-06	WATER	M.G.	2		2
5.)	209-03.20	FILTER SOCK (8 INCH)	L.F.	497		497
	209-05	SEDIMENT REMOVAL	C.Y.	8		8
4.)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	27		27
5.)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1		1
6.)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	213		213
7.)	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON		11	11
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	5		5
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	669		669
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	10092		10092
	501-01.01	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 8"	S.Y.	332		332
	607-02.02	15" CONCRETE PIPE CULVERT(CLASS III)	L.F.		38	38
	611-09.02	REWORK CATCHBASIN	EACH		7	7
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH		3	3
8.)	611-70.01	CATCH BASIN TYPE B	EACH		3	3
	611-70.02	CATCH BASIN TYPE C	EACH		7	7
	611-70.03	CATCH BASIN TYPE E	EACH		5	5
9.)	620-15	HANDRAIL ASSEMBLY (LOWERY BUILDING ENTRANCE)	L.F.		48	48
	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.		9700	9700
2.)	701-02.03	CONCRETE CURB RAMP	S.F.		400	400
10.)	701-02.10	BUILDING ENTRANCE RAMP	EACH		1	1
	702-01.03	MODULAR CURB W/DELINEATOR	L.F.	111		111
11.)	702-01	CONCRETE CURB	C.Y.		81	81
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	23		23
	712-01	TRAFFIC CONTROL	LS	1		1
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	80		80
	712-06	SIGNS (CONSTRUCTION)	S.F.	242		242
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	184		184
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	166		166
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	216		216
12.)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1		1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	6		6
11.)	713-20.01	TRAFFIC SIGN BASE	EACH		40	40
	713-20.02	ARCITECTURAL TRAF SIGN POLE &FRAME	EACH		40	40
	714-01.38	LIGHT POLE RELOCATION	EACH		8	8
	714-60.01	LIGHT POLE BASE DEMOLITION	EACH		41	41
	714-60.02	LIGHT POLE BASE TYPE A (POLE BY MTEMC)	EACH		4	4
	714-60.03	LIGHT POLE BASE TYPE B (POLE BY MTEMC)	EACH		24	24
	714-60.04	LIGHT POLE BASE TYPE B	EACH		8	8
	714-60.05	LIGHT POLE REWIRING	EACH		4	4
13.)	714-60.06	LIGHT POLE CONVENIENCE ELECTRIC ASSEMBLY	EACH		36	36
	714-60.07	PANEL (SQ)	EACH		1	1
	714-60.08	TIME CLOCK	EACH		1	1
	714-60.09	SPIDER BOX 50A	EACH		4	4
	714-60.10	ELEC PULL BOX TRAF BEARING 13X24X18IN	EACH		5	5
	714-60.11	ELEC PULL BOX PED. BEARING 13X24X18IN	EACH		12	12

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	PARTICIPATING ITEMS QUANTITY	NON-PARTICIPATING ITEMS QUANTITY	TOTAL QUANTITIY
14.)	716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.		150	150
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	133		133
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	92		92
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	4		4
	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	4		4
	716-04.10	PLASTIC PAVEMENT MARKING (HANDICAP SYMBOL)	EACH	7		7
	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	50		50
	716-04.17	PLASTIC PAVEMENT MARKING (YIELD SYMBOL)	EACH	4		4
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	1		1
	716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	133		133
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	92		92
15.)	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	4		4
	716-05.11	PAINTED PAVEMENT MARKING (STRAIGHT ARROW)	EACH	4		4
	716-05.21	PAINTED PAVEMENT MARKING (4"DOTTED LINE)	L.F.	114		114
	716-05.22	PAINTED PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	360		360
16.)	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	1		1
	716-12.04	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN DOTTED LINE)	L.F.	114		114
	717-01	MOBILIZATION	LS	1		1
	721-10.01	LNDSCPE RPBP BOX PED. BEARING 30X48X24IN	EACH		1	1
	721-10.10	LNDSCPE PULL BOX PED. BEARING 13X24X18IN	EACH		9	9
17.)	721-11.20	REDUCED PRES. BACKFLOW PREVENTER ASMBLY	EACH		1	1
	721-11.30	POTABLE WATER TIE-IN 2IN	EACH		1	1
	721-12.03	2IN PVC IRRIGATION WATER PIPE	L.F.		20	20
	721-12.06	4IN PVC IRRIGATION WATER PIPE	L.F.		1650	1650
18.)	730-01.09	UTILITY DUCT BANK	L.F.		2250	2250
13.)	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.		8500	8500
	730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.		2600	2600
4.), 5.)	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	28		28

1.) TO BE USED FOR THE REMOVAL OF CB 12 AND CB 16. SEE SHEET 15 FOR DETAILS.
2.) SEE SHEET 12 FOR DETAILS.
3.) TO BE REMOVED FOR ELECTRICAL DUCT BANK, LANDSCAPING ISLAND AND PROPOSED CATCH BASIN REMOVAL AND INSTALLATION. SEE SHEETS 12A AND 15 FOR DETAILS.
4.) ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
5.) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
6.) INCLUDES 100 TON FOR MAINTENANCE PURPOSES.
7.) TO BE USED TO COVER ELECTRICAL DUCT BANKS AFTER DUCT BANK INSTALLATION.
8.) SEE SHEET 15 FOR DETAILS.
9.) SEE SHEET 12B FOR DETAILS.
10.) SEE SHEETS 12 AND 12B FOR DETAILS. THIS ITEM TO INCLUDE ALL ITEMS SHOWN ON SHEET 12B WHICH ARE NOT PAID FOR UNDER ANY OTHER PAY ITEM.
11.) SEE SHEET 12A FOR DETAILS.
12.) REMOVE SIGN & SUPPORT (NO FOOTINGS ON THESE SIGNS) ON APPROXIMATELY TWENTY (20) SIGNS WITHIN THE GRADING LIMITS OR AS DIRECTED BY THE ENGINEER.
13.) SEE SHEETS 13-13C FOR DETAILS.
14.) SEE SHEET 12A FOR CROSSWALK MARKING AND PATTERNING DETAILS.
15.) TO BE USED AS TEMPORARY PAVEMENT MARKINGS.
16.) TO BE USED FOR PARKING STALLS, EDGE LINES, CENTERLINES, AND LANE LINES.
17.) SEE SHEET 14 FOR DETAILS.
18.) COST OF CONCRETE ENCASEMENT OF UTILITY DUCT BANK TO BE INCLUDED IN COST OF THIS ITEM.

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ESTIMATED ROADWAY QUANTITIES

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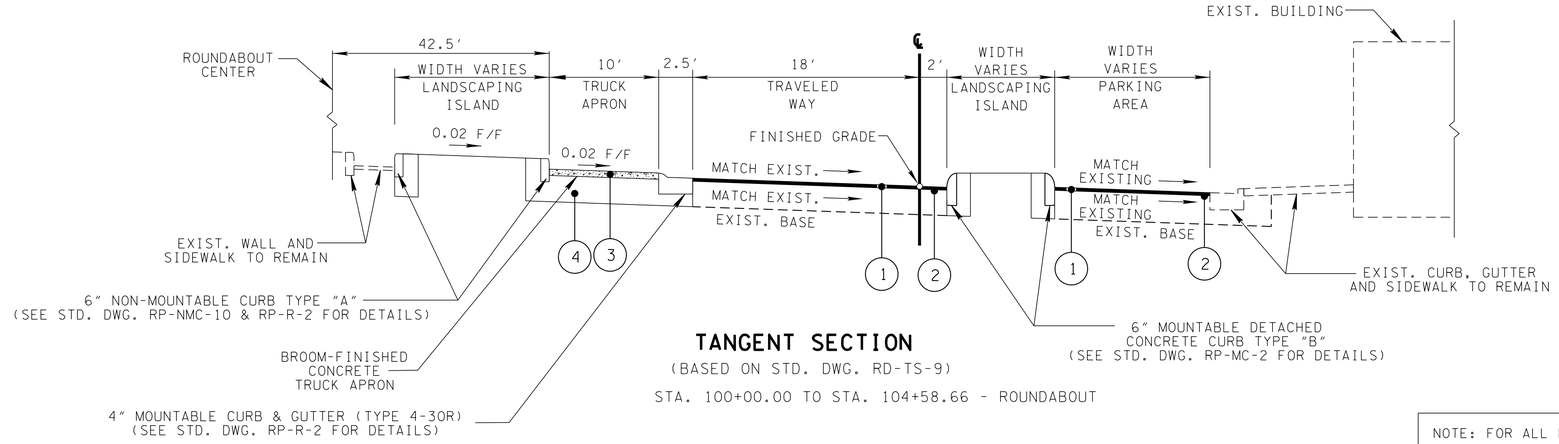
CONST.	2014	PHSIP/STP-EN-10(47)	2A

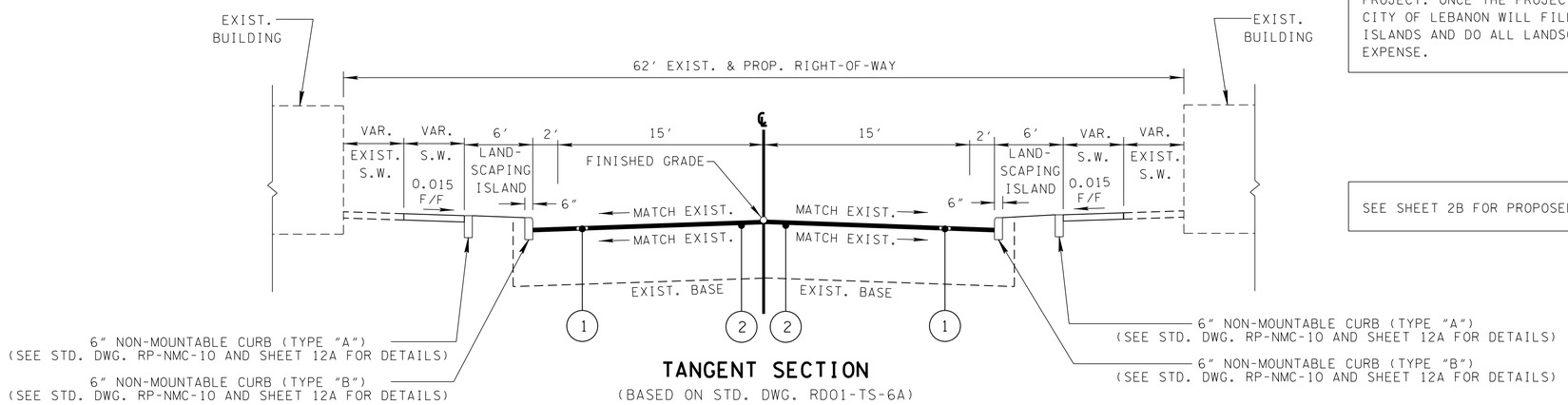


TANGENT SECTION

(BASED ON STD. DWG. RD-TS-9)

STA. 100+00.00 TO STA. 104+58.66 - ROUNDABOUT

NOTE: FOR ALL PROPOSED LANDSCAPING ISLANDS, ALL EXISTING PAVEMENT WILL BE REMOVED DOWN TO THE MINERAL AGGREGATE BASE AND PROPOSED CURB WILL BE POURED. THE LANDSCAPING ISLAND WILL REMAIN UNFILLED THROUGHOUT THE COMPLETION OF THE PROJECT. ONCE THE PROJECT IS COMPLETE, THE CITY OF LEBANON WILL FILL IN ALL LANDSCAPING ISLANDS AND DO ALL LANDSCAPING AT THEIR OWN EXPENSE.



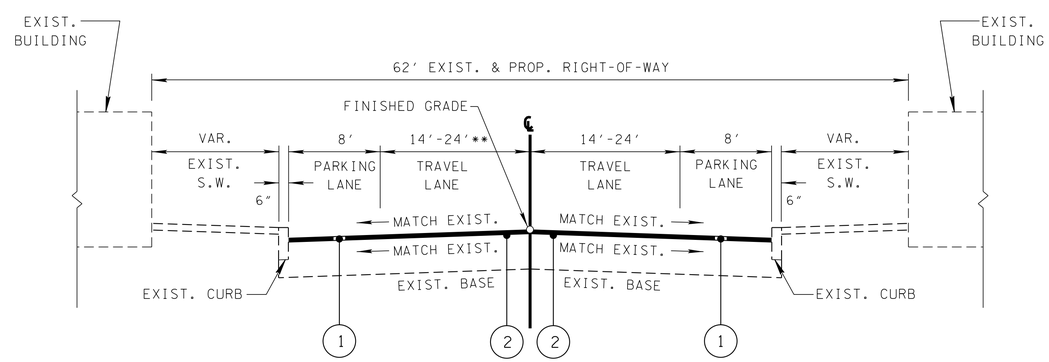
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-6A)

STA. 506+12.67 TO STA. 507+18.50 - S.R. 10 *
STA. 509+82.50 TO STA. 510+22.58 - S.R. 10
STA. 401+29.27 TO STA. 401+71.00 - S.R. 24
STA. 404+34.50 TO STA. 404+77.21 - S.R. 24

SEE SHEET 2B FOR PROPOSED PAVEMENT SCHEDULE

* S.R. 10 FROM STA. 506+12.67 TO STA. 506+79.26 WILL NOT HAVE LANDSCAPING ISLAND OR VAR. S.W. RIGHT OF THE CENTERLINE. IT WILL HAVE RESURFACING UP TO THE EXIST. CURB.



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-6A)

STA. 504+00.00 TO STA. 506+12.67 - S.R. 10
STA. 510+22.58 TO STA. 512+00.00 - S.R. 10
STA. 400+15.00 TO STA. 401+29.27 - S.R. 24
STA. 404+77.21 TO STA. 405+68.00 - S.R. 24

** S.R. 10 ENTERING NORTH OF THE ROUNDABOUT WILL HAVE ONE (1) TRAVEL LANE, NO ON-STREET PARKING, AND GUTTER TO REMAIN. S.R. 10 EXITING SOUTH OF THE ROUNDABOUT WILL HAVE TWO (2) TRAVEL LANES AND NO ON-STREET PARKING.

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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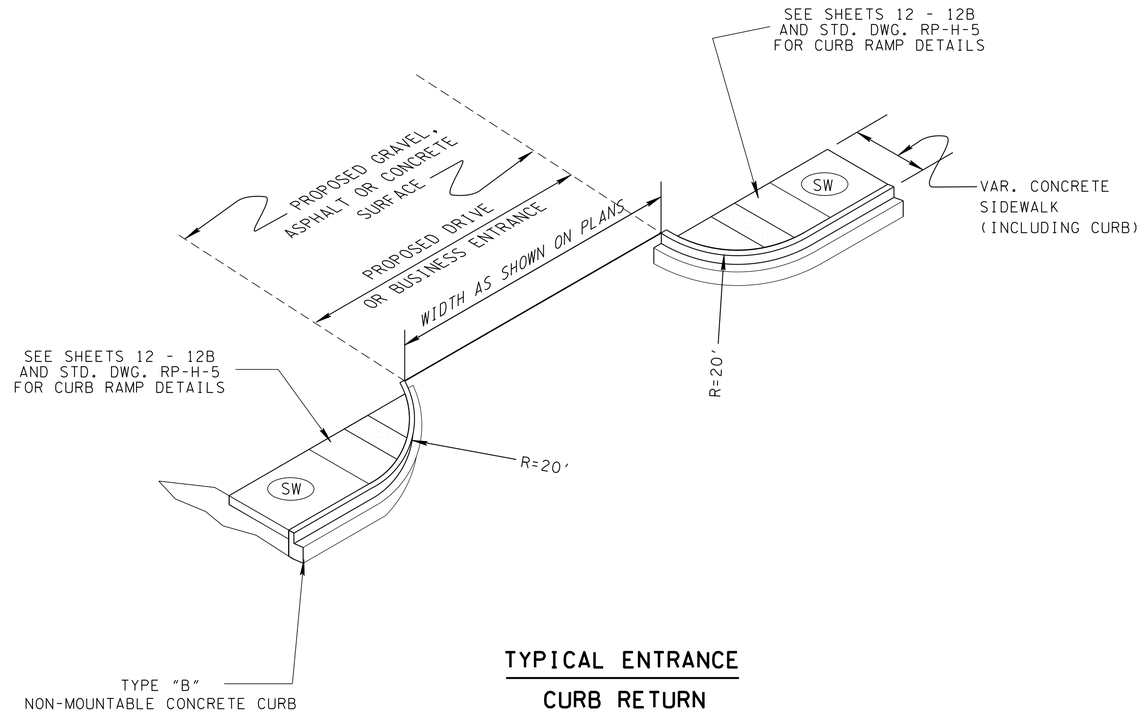
CONST.	2014	PHSIP/STP-EN-10(47)	2B



TYPICAL ENTRANCE

CURB RETURN
20' RETURN RADIUS

CURB CUT ENTRANCE FOR S.R. 10

STA. 506+59.06 - S.R. 10

PROPOSED PAVEMENT SCHEDULE	
(1) BITUMINOUS SURFACE BITUMINOUS SURFACE @ 1.25"± THICK (APPROX. 132.5 LB/SY) 411-02.10 ASPHALT CEMENT (PG70-22) (ACS) GRADING D	(3) PORTLAND CEMENT CONRETE (PLAIN) (8" THICK) 501-01.01 PORTLAND CEMENT CONRETE (PLAIN) 8"
(2) TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (0.10 GAL/SY)	(4) MINERAL AGGREGATE BASE (4"± DEPTH) 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D

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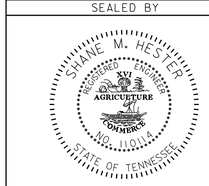

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	2C

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

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.

DRAINAGE

(1) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

UTILITIES

(1) FOR UTILITIES NOTES, SEE SHEET 3A.

MISCELLANEOUS

(1) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

(2) 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

RIGHT - OF – WAY

(1) FOR RIGHT-OF-WAY NOTES, SEE SHEET 3A.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

(1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

FINAL PAVEMENT MARKING IF 4" ENHANCED FLATLINE THERMOPLASTIC IS USED

(2) 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.

PAVEMENT

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

RESURFACING

(2) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(3) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.

(4) ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.

(5) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

SIGNING

(1) 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.

(2) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(3) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

(4) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

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.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF A OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE.. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LIGHTING

(1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED MARCH 1, 2006 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(2) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT.

(3) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.

(4) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE.

(5) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(6) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.

(7) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

(8) STANDARDS SHALL BE DESIGNED FOR 80-MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.

(9) ALL NEW ROADWAY LIGHT STANDARDS SHALL BE MOUNTED ON BASES WITH ACCESS DOOR. TRANSFORMER BASES SHALL MEET AASHTO SPECIFICATIONS AND HAVE FHWA APPROVAL. STANDARDS SHALL BE ALUMINUM WITH TRANSFORMER BASES.

(10) BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.

(11) BRACKET ARM UPSWEEP SHALL BE THE SAME FOR ALL LIGHT STANDARDS OF THE SAME TYPE.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	2D

GENERAL NOTES (CONT.)

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.

(6) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

SEDIMENT CONTROL

(7) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

(8) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(9) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(10) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(11) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(12) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(13) 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

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

(15) 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.

(16) 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.

(17) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(18) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(19) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(20) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(21) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

MATERIALS

(22) 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.

SWPPP, PERMITS, PLANS, RECORDS

(23) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(24) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, ROADWAY DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(25) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(26) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BREIF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

(27) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(28) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(29) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.

(30) IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	2E

GENERAL NOTES (CONT.)

EROSION PREVENTION AND SEDIMENT CONTROL (CONT.)

SWPPP, PERMITS, PLANS, RECORDS (CONT.)

(31) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

(32) 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.

(33) 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

SIGNING

(1) SEE SHEET 12A FOR DETAILS FOR SPECIAL SIGN BASE AND ARCHITECTURAL SIGN POST TO BE USED ON ALL PROPOSED SIGNS ON THIS PROJECT.

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GENERAL NOTES

29-APR-2014 08:58
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	2F

ESTIMATED GRADING QUANTITIES

LOCATION	ROAD & DRAINAGE EXC. (UNCL.) C.Y.	BORROW EXCAVATION UNCL. - C.Y.	BORROW EXCAVATION S. ROCK - C.Y.	CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
ROUNDABOUT	1136				837	249
S.R. 10	243				140	86
S.R. 24	191				148	36
TOTALS	**1570**	**0**	**0**	**0**	**1125**	**371**

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS 303-01 (TON)	403-01 (TON)	411-02.10 (TON)	501-01.01 (S.Y.)
ROUNDABOUT	113.0	2.8	399.4	332.0
S.R. 10		1.4	177.6	
S.R. 24		0.8	92.0	
TOTALS	**113**	**5**	**669**	**332**

UNOFFICIAL SET

NOT FOR BIDDING

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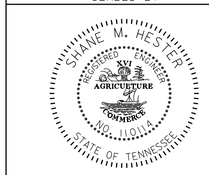

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

29-APR-2014 08:58
C:\projects\WILSON CO LEBANON TOWN SQUARE\002F.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	3

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
1	PUBLIC SQUARE PROPERTIES, L.P.	068E "P"	013.00	1090	2336		2358 S.F.	2358 S.F.					2358 S.F.			
2	MARK PODY AND TONY TODD	068E "Q"	012.00	1486	1738	1697 S.F.		1697 S.F.				1697 S.F.				
3	MARK PODY AND WIFE, BARBARA PODY	068E "P"	014.00	1450	2492		2337 S.F.	2337 S.F.					2337 S.F.			
4	BAIRD EDWARD BOUTON	068E "Q"	011.00	UNKNOWN	UNKNOWN	1767 S.F.		1767 S.F.				1767 S.F.				
5	ANTHONY ENSLEY HAGAN, JR., AND MADELINE M. HAGAN	068E "P"	015.00	918	1637		0.196	0.196					0.196			
6	WILSON COUNTY OF TENNESSEE	068E "Q"	010.00	UNKNOWN	UNKNOWN	0.881		0.881				0.881				
7	BAIRD EDWARD BOUTON	068E "Q"	007.00	UNKNOWN	UNKNOWN		1209 S.F.	1209 S.F.					1209 S.F.			
8	FRANK LANNOM, TRUSTEE	068E "P"	017.00	464	636		2605 S.F.	2605 S.F.					2605 S.F.			
9	PUBLIC SQUARE PROPERTIES, L.P.	068E "Q"	009.00	1090	2336	1620 S.F.		1620 S.F.				1620 S.F.				
10	PUBLIC SQUARE PROPERTIES, L.P.	068E "P"	018.00	1090	2336		2108 S.F.	2108 S.F.					2108 S.F.			
11	FRANK K. BUSTER AND WIFE, LINDA BUSTER	068E "P"	019.00	396	122		0.110	0.110					0.110			
12	MB PROPERTIES	068E "P"	020.00	1420	692		0.280	0.280					0.280			
13	FRANK BUSTER	068E "P"	021.00	398	999		1678 S.F.	1678 S.F.					1678 S.F.			
14	HUBERT D. CLEMMONS	068E "Q"	007.00	1544	192	2912 S.F.		2912 S.F.				2912 S.F.				
15	FRANK K. BUSTER AND SCOTT O'NEIL	068E "P"	022.00	434	819		1660 S.F.	1660 S.F.					1660 S.F.			
16	LEBANNON AND WILSON COUNTY CHAMBER OF COMMERCE	068E "P"	024.00	1103	1884		3309 S.F.	3309 S.F.					3309 S.F.			
17	DORRIS GARRETT AND WIFE, JUNE GARRETT	068E "Q"	006.00	393	485	1199 S.F.		1199 S.F.				1199 S.F.				
18	RAYMOND J. WHITFIELD AND WIFE, ANITA D. WHITFIELD	068E "Q"	005.00	391	36	1169 S.F.		1169 S.F.				1169 S.F.				
19	PUBLIC SQUARE PROPERTIES, L.P.	068E "Q"	004.00	1090	2336	1400 S.F.		1400 S.F.				1400 S.F.				
20	JACK D. LOWERY	068E "P"	025.00	465	340		1660 S.F.	1660 S.F.					1660 S.F.			
21	ROBERT O. WINFREE AND WIFE, DEBRA B. WINFREE	068E "Q"	003.00	900	992	2601 S.F.		2601 S.F.				2601 S.F.				
22	SISI H. WILSON AND HUSBAND JAMES H. KINNARD	068E "Q"	002.03	1193	977	2076 S.F.		2076 S.F.				2076 S.F.				
23	JACK D. LOWERY	068E "P"	001.00	465	340		1793 S.F.	1793 S.F.					1793 S.F.			
24	DOWNTOWN PROPERTIES	068E "N"	003.01	406	604		1751 S.F.	1751 S.F.					1751 S.F.			
25	KENWARD GRIFFITH AND WIFE EVA JEAN GRIFFITH	068E "N"	003.02	403	931		2006 S.F.	2006 S.F.					2006 S.F.			
26	JONATHAN G. DUGDALE	068E "N"	003.00	1121	1917		2347 S.F.	2347 S.F.					2347 S.F.			
27	LYNN LESTER, HOLLY L. ROCHE, KENDRA L. RAY AND KEVIN LESTER	068E "N"	002.00	447	855		0.107	0.107					0.107			
28	HUGH E. GREEN, JR.	068E "O"	016.00	391	233		1502 S.F.	1502 S.F.					1502 S.F.			
29	JENNY LEE COOK	068E "O"	014.00	425	728		3874 S.F.	3874 S.F.					3874 S.F.			
30	B.L. MARKHAM, SR.	068E "O"	017.00	427	526		1456 S.F.	1456 S.F.					1456 S.F.			
31	MARTHA ANN LEYHEW	068E "O"	018.00	435	458		841 S.F.	841 S.F.					841 S.F.			
32	WILLIAM B. GREEN	068E "O"	019.00	439	320		1893 S.F.	1893 S.F.					1893 S.F.			
33	JIMMY T. ALVIS AND WIFE, VIRGINIA DARLENE ALVIS	068E "O"	020.00	1119	888		1988 S.F.	1988 S.F.					1988 S.F.			
34	ROBERT R. CASH AND WIFE, HELENE M. SINGER CASH	068E "O"	021.00	1547	2456		0.195	0.195					0.195			
35	FRANK BUSTER AND WIFE, LINDA BUSTER	068E "O"	022.00	434	819		2073 S.F.	2073 S.F.					2073 S.F.			
36	W.J. BAIRD	068E "O"	023.00	173	201		2274 S.F.	2274 S.F.					2274 S.F.			
37	BAIRD EDWARD BOUTON	068E "O"	024.00	UNKNOWN	UNKNOWN		2140 S.F.	2140 S.F.					2140 S.F.			
38	EDWARD B. BAIRD	068E "O"	025.00	277	251		1764 S.F.	1764 S.F.					1764 S.F.			
39	HOLLIS E. MCCLANAHAN	068E "O"	026.00	388	802		3904 S.F.	3904 S.F.					3904 S.F.			
40	CITY OF LEBANON, TENNESSEE	068E "N"	001.01	463	962	0.105		0.105				0.105				
41	REBA G. WILMOTH	068E "N"	001.02	1332	1722	0.775		0.775				0.775				

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

29-APR-2014 08:59
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	3A

GENERAL NOTES

RIGHT - OF – WAY

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROOADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

(2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

(5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

(6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(9) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

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.

UTILITY OWNERS LIST (FOR INFORMATION ONLY)

TELEPHONE:
AT&T
333 COMMERCE STREET ROOM 23C 142
NASHVILLE, TN 37201
ATTENTION: KIM BEAN
PHONE: 615-214-7318
E-MAIL: KB1078@ATT.COM

ELECTRIC:
MIDDLE TENNESEE ELECTRIC MEMBERSHIP CORPORATION
555 NEW SALEM ROAD
MURFREESBORO, TN 37129
ATTENTION: TALLEY FLOYD
PHONE: 615-890-9762
E-MAIL: TFLOYD@MTEMC.COM

WATER:
CITY OF LEBANON
215 MADDOX SIMPSON PARKWAY
LEBANON, TN 37087
ATTENTION: RANDY LAINE
PHONE: 615-444-3647 EXT. 266
E-MAIL: RANDY.LAINE@LEBANONTN.ORG

SEWER:
CITY OF LEBANON
215 MADDOX SIMPSON PARKWAY
LEBANON, TN 37087
ATTENTION: RANDY LAINE
PHONE: 615-444-3647 EXT. 266
E-MAIL: RANDY.LAINE@LEBANONTN.ORG

GAS:
CITY OF LEBANON GAS DEPARTMENT
215 MADDOX SIMPSON PARKWAY
LEBANON, TN 37090
ATTENTION: JERRY SNODGRASS
PHONE: 615-443-2835
E-MAIL: JSNODGRASS@LEBANONTN.ORG

FIBER OPTIC:
LEVEL 3 COMMUNICATIONS, INC.
1025 ELDORADO BOULEVARD SUITE 43C-420
BROOMFIELD, CO 80021
ATTENTION: TIM BOYKIN
PHONE: 720-888-7280
E-MAIL: TIM.BOYKIN@LEVEL3.COM
ALTERNATE E-MAIL: LEVEL3NETWORKRELOCATIONS@LEVEL3.COM

CABLE:
CHARTER COMMUNICATIONS
223 S. COLLEGE STREET
LEBANON, TN 37087
ATTENTION: CHRIS WILLIAMS
PHONE: 615-418-9348
E-MAIL: CHRIS.WILLIAMS2@CHARTER.COM

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. NOTES, UTILITY NOTES, AND UTILITY OWNERS

29-APR-2014 09:00
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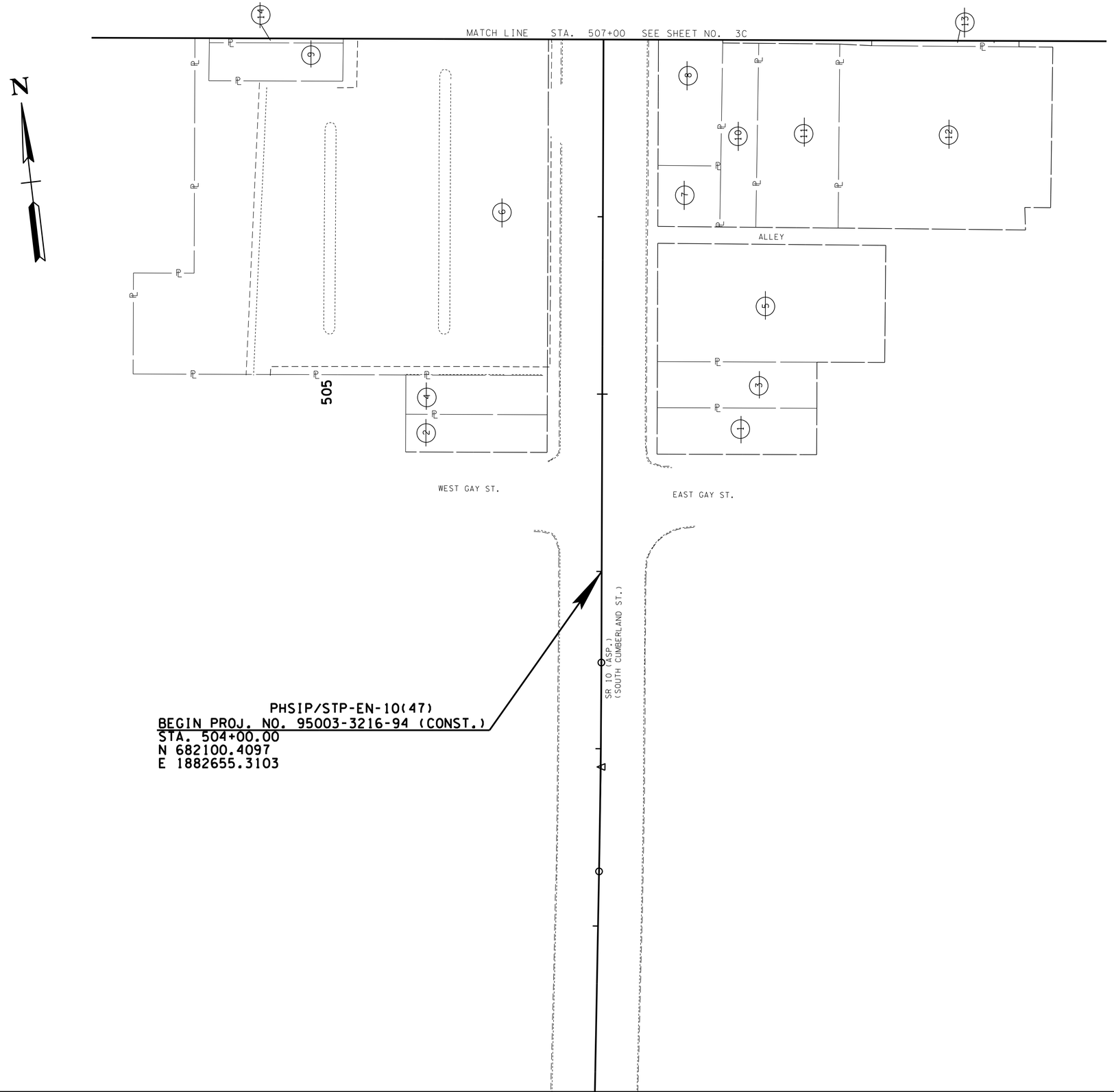
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	3B



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SHANE M. HESTER
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 110114
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 504+00 TO STA. 507+00

SCALE: 1"= 30'

29-APR-2014 09:01
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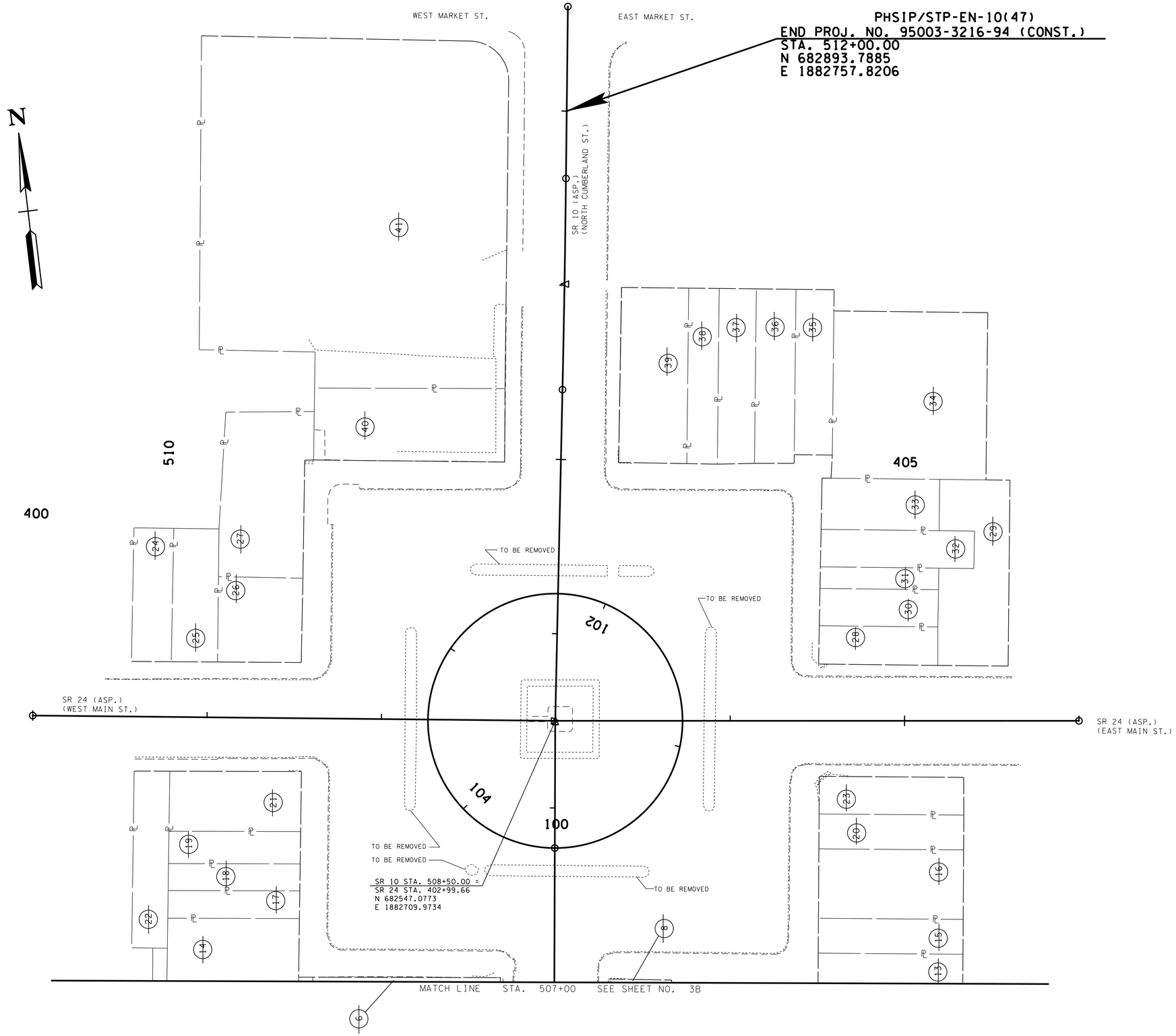
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	3C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 507+00 TO STA. 512+00

SCALE: 1"= 30'

29-APR-2014 09:01
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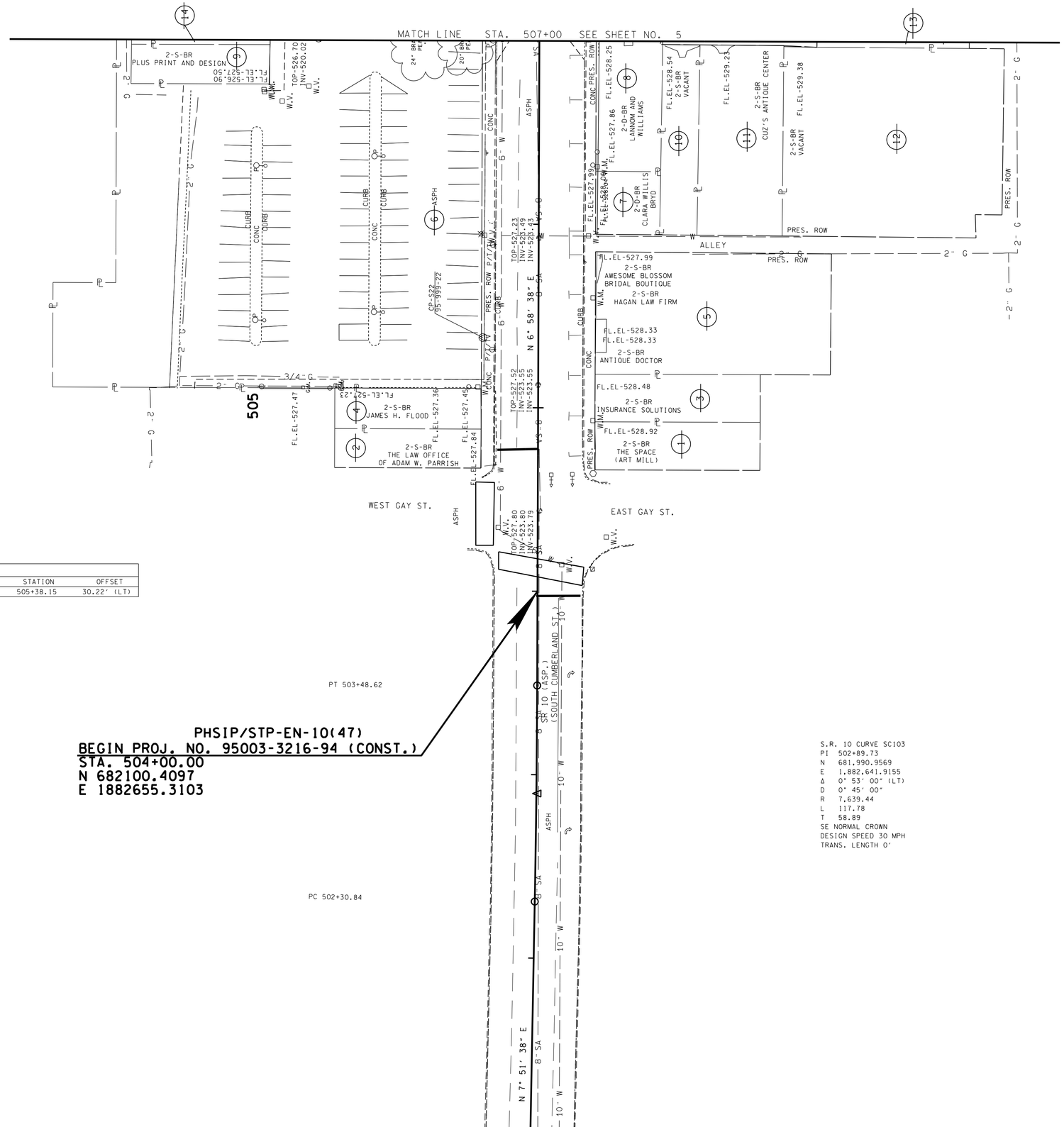
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	4

N

1	PUBLIC SQUARE PROPERTIES, L.P.
2	MARK PODY AND TONY TODD
3	MARK PODY AND WIFE, BARBARA PODY
4	BAIRD EDWARD BOUTON
5	ANTHONY ENSLEY HAGAN, JR., AND MADELINE M. HAGAN
7	BAIRD EDWARD BOUTON



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S22 (95-999-22)	682241.2107	1882642.0973	526.87	505+38.15	30.22' (LT)

PHSIP/STP-EN-10(47)
BEGIN PROJ. NO. 95003-3216-94 (CONST.)
STA. 504+00.00
N 682100.4097
E 1882655.3103

S.R. 10 CURVE SC103
PI 502+89.73
N 681,990.9569
E 1,882,641.9155
Δ 0° 53' 00" (LT)
D 0° 45' 00"
R 7,639.44
L 117.78
T 58.89
SE NORMAL CROWN
DESIGN SPEED 30 MPH
TRANS. LENGTH 0'

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 504+00 TO STA. 507+00

SCALE: 1"= 30'

29-APR-2014 09:01
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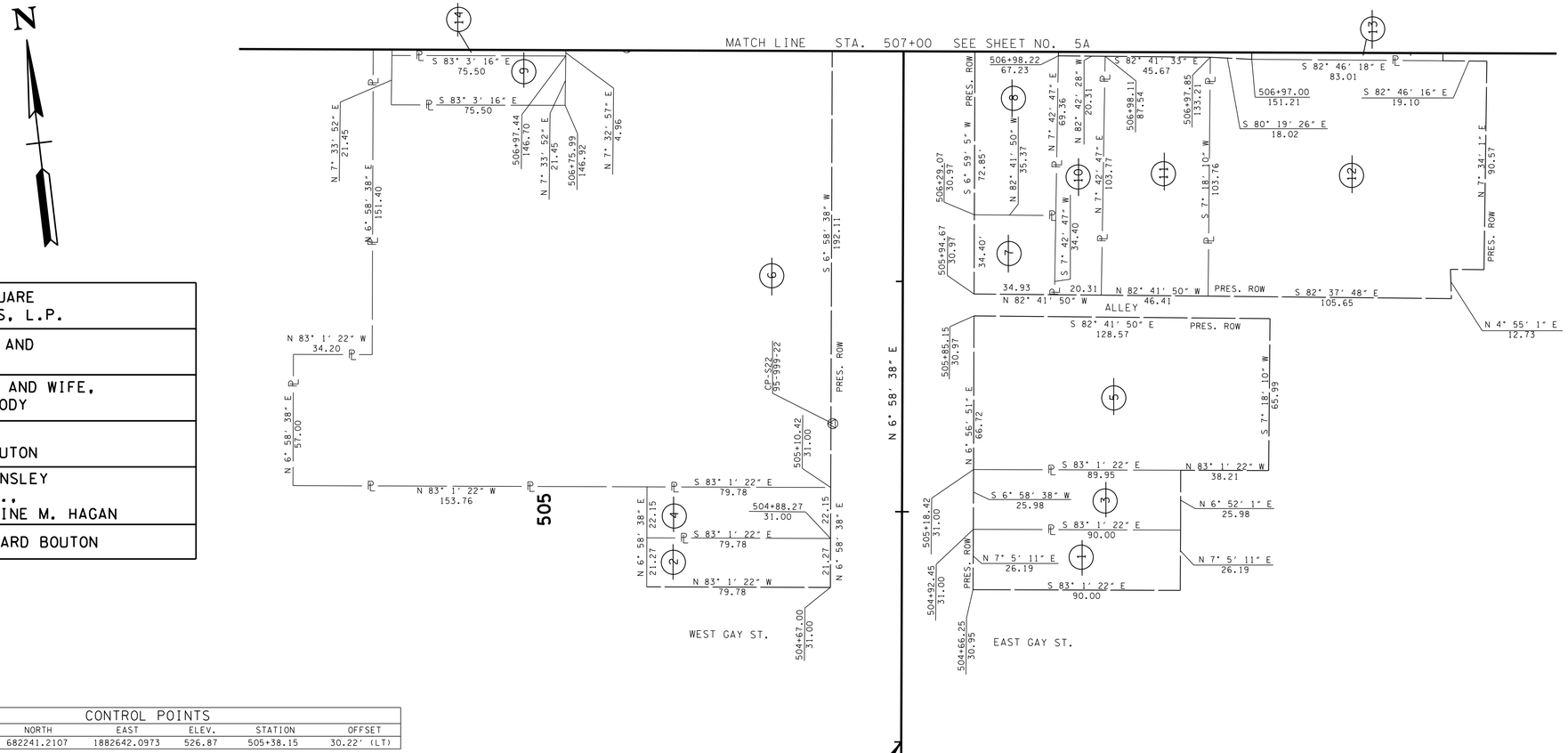
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	4A



1	PUBLIC SQUARE PROPERTIES, L.P.
2	MARK PODY AND TONY TODD
3	MARK PODY AND WIFE, BARBARA PODY
4	BAIRD EDWARD BOUTON
5	ANTHONY ENSLEY HAGAN, JR., AND MADELINE M. HAGAN
7	BAIRD EDWARD BOUTON

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S22 (95-999-22)	682241.2107	1882642.0973	526.87	505+38.15	30.22' (LT)

PHSIP/STP-EN-10(47)
BEGIN PROJ. NO. 95003-3216-94 (CONST.)
STA. 504+00.00
N 682100.4097
E 1882655.3103

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SHANE M. HESTER
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 110114
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 504+00 TO STA. 507+00

SCALE: 1"= 30'

29-APR-2014 09:01
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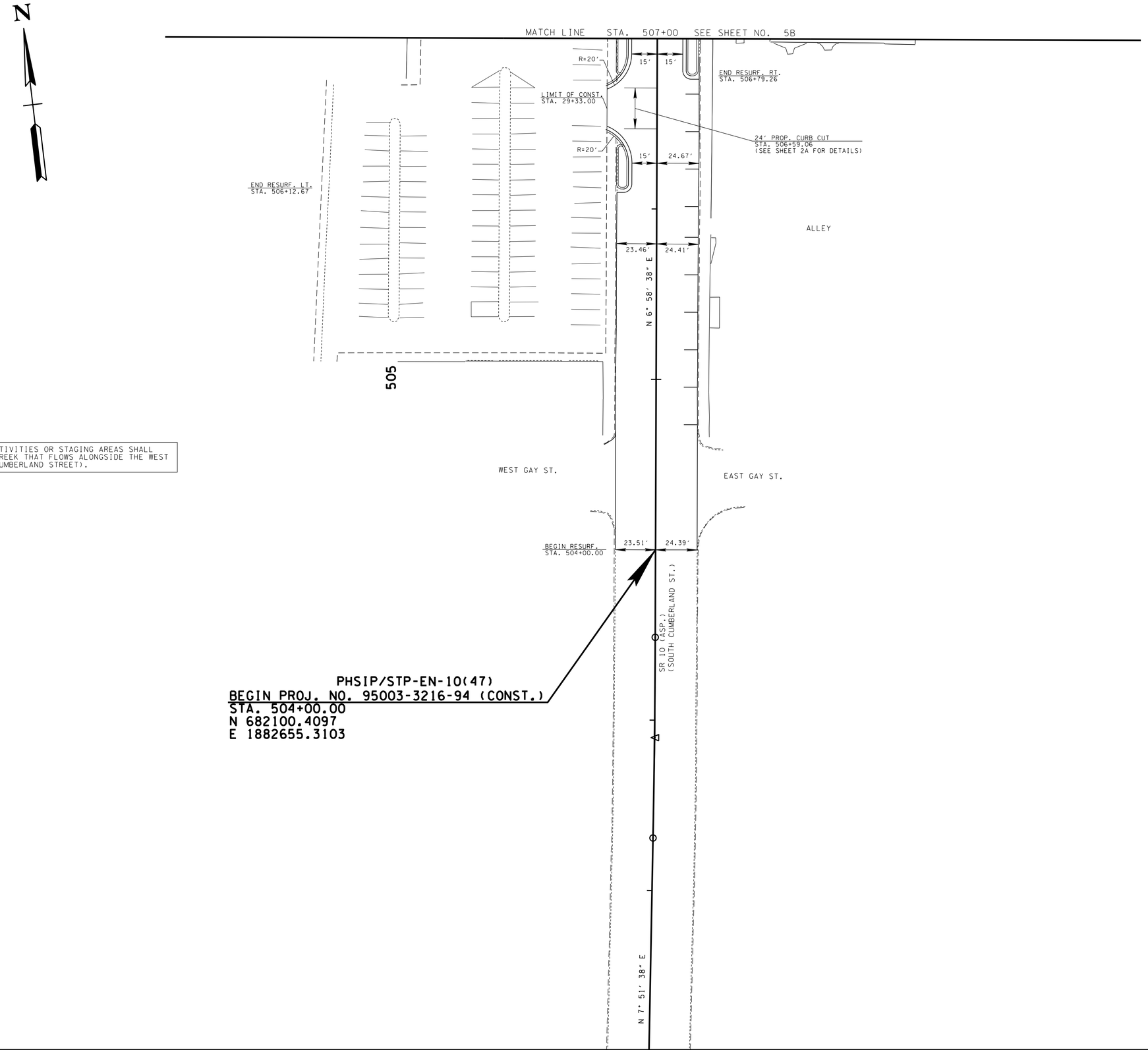
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	4B



NOTE: NO CONSTRUCTION ACTIVITIES OR STAGING AREAS SHALL DISTURB/IMPACT SINKING CREEK THAT FLOWS ALONGSIDE THE WEST SIDE OF S.R. 10 (NORTH CUMBERLAND STREET).

UNOFFICIAL SET

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SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

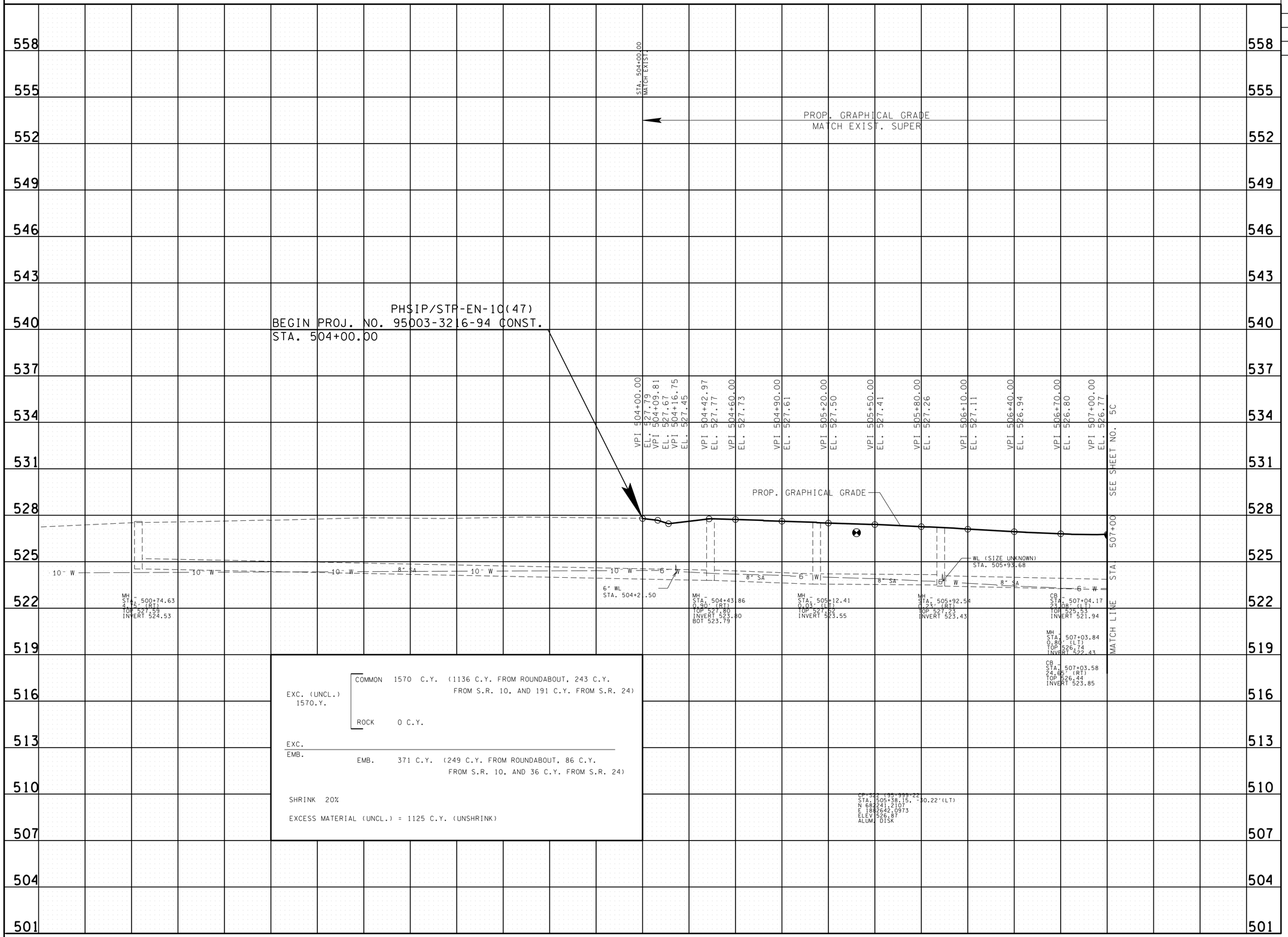
PROPOSED LAYOUT

STA. 504+00 TO STA. 507+00

SCALE: 1"= 30'

29-APR-2014 09:01
C:\projects\WILSON CO LEBANON TOWN SQUARE\004B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	4C



EXC. (UNCL.) 1570.Y.

COMMON 1570 C.Y. (1136 C.Y. FROM ROUNDABOUT, 243 C.Y. FROM S.R. 10, AND 191 C.Y. FROM S.R. 24)

ROCK 0 C.Y.

EXC.
EMB.

EMB. 371 C.Y. (249 C.Y. FROM ROUNDABOUT, 86 C.Y. FROM S.R. 10, AND 36 C.Y. FROM S.R. 24)

SHRINK 20%

EXCESS MATERIAL (UNCL.) = 1125 C.Y. (UNSHRINK)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

SHANE M. HESTER
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 110114
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

S.R. 10 PROFILE

STA. 504+00 TO STA. 507+00

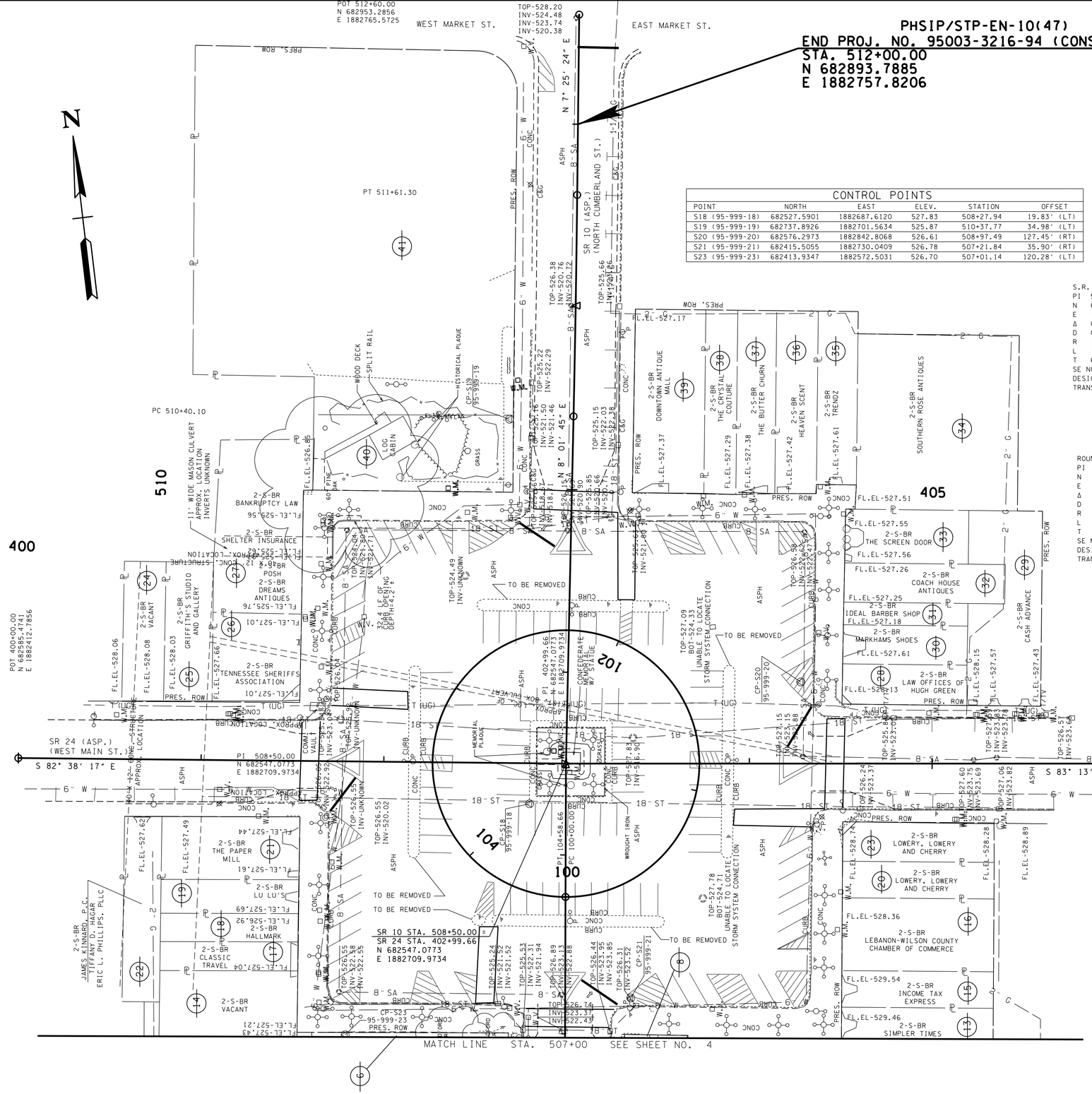
SCALE: 1"= 30' HORIZ.
1"= 3' VERT.

29-APR-2014 09:01
C:\projects\WILSON CO LEBANON TOWN SQUARE\004C.SHT

PROPERTY OWNERS	
6	WILSON COUNTY OF TENNESSEE
8	FRANK LANNOM, TRUSTEE
9	PUBLIC SQUARE PROPERTIES, L.P.
10	PUBLIC SQUARE PROPERTIES, L.P.
11	FRANK K. BUSTER AND WIFE, LINDA BUSTER
12	MB PROPERTIES
13	FRANK BUSTER
14	HUBERT D. CLEMMONS
15	FRANK K. BUSTER AND SCOTT O'NEIL
16	LEBANNON AND WILSON COUNTY CHAMBER OF COMMERCE
17	DORRIS GARRETT AND WIFE, JUNE GARRETT
18	RAYMOND J. WHITFIELD AND WIFE, ANITA D. WHITFIELD
19	PUBLIC SQUARE PROPERTIES, L.P.
20	JACK D. LOWERY
21	ROBERT O. WINFREE AND WIFE, AND WIFE,
22	SISI H. WILSON AND HUSBAND JAMES H. KINNARD
23	JACK D. LOWERY
24	DOWNTOWN PROPERTIES
25	KENWARD GRIFFITH AND WIFE EVA JEAN GRIFFITH
26	JONATHAN G. DUGDALE
27	LYNN LESTER, HOLLY L. ROCHE, KENDRA L. RAY AND KEVIN LESTER
28	HUGH E. GREEN, JR.
29	JENNY LEE COOK
30	B.L. MARKHAM, SR.
31	MARTHA ANN LEYHEW
32	WILLIAM B. GREEN
33	JIMMY T. ALVIS AND WIFE, VIRGINIA DARLENE ALVIS
34	ROBERT R. CASH AND WIFE, HELENE M. SINGER CASH
35	FRANK BUSTER AND WIFE, LINDA BUSTER
36	W.J. BAIRD
37	BAIRD EDWARD BOUTON
38	EDWARD B. BAIRD
39	HOLLIS E. MCCLANAHAN
40	CITY OF LEBANON, TENNESSEE
41	REBA G. WILMOTH

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	5

PHSIP/STP-EN-10(47)
END PROJ. NO. 95003-3216-94 (CONST.)
STA. 512+00.00
N 682893.7885
E 1882757.8206



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S18 (95-999-18)	682527.5901	1882687.6120	527.83	508+27.94	19.83' (LT)
S19 (95-999-19)	682737.8926	1882701.5634	525.87	510+37.77	34.98' (LT)
S20 (95-999-20)	682576.2973	1882842.8068	526.61	508+97.49	127.45' (RT)
S21 (95-999-21)	682415.5055	1882730.0409	526.78	507+21.84	35.90' (RT)
S23 (95-999-23)	682413.9347	1882572.5031	526.70	507+01.14	120.28' (LT)

S.R. 10 CURVE SC100
PI 511+00.70
N 682,795.3209
E 1,882,744.9912
Δ 0° 36' 22" (LT)
D 0° 30' 00"
R 11,459.16
L 121.20
T 60.60
SE NORMAL CROWN
DESIGN SPEED 30 MPH
TRANS. LENGTH 0'

ROUNDABOUT CURVE SC102
PI 100+00.01
N 682,474.6185
E 1,882,701.1008
Δ 359° 59' 31" (LT)
D 78° 29' 15"
R 73.00
L 458.66
T 0.01
SE MATCH EXIST.
DESIGN SPEED 20 MPH
TRANS. LENGTH N/A

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
SHANE M. HESTER
NO. 110014
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 507+00 TO STA. 512+00

SCALE: 1"= 30'

29-APR-2014 09:01
C:\projects\WILSON CO LEBANON TOWN SQUARE\005.SHT

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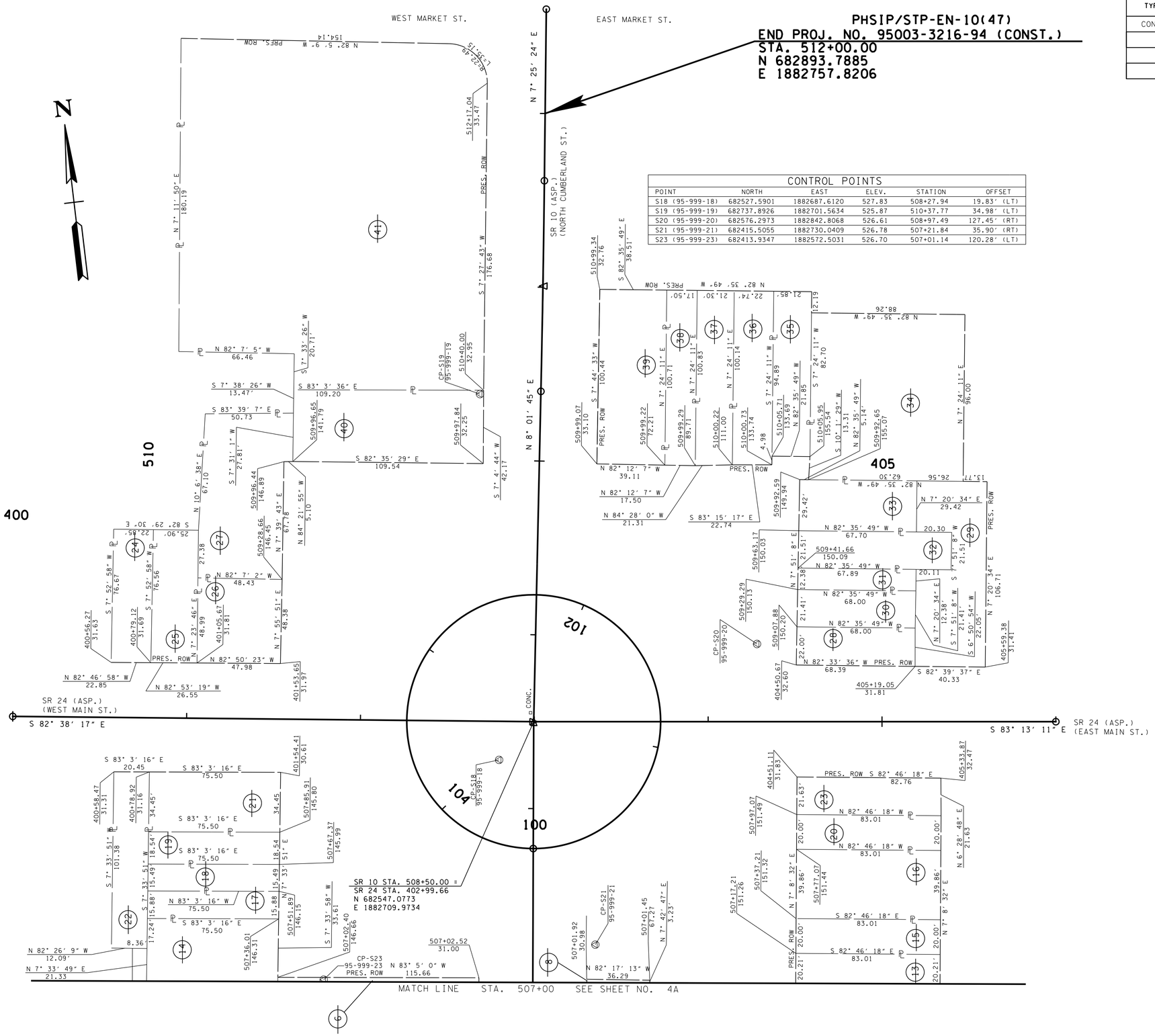
41	REBA G. WILMOTH

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	5A

PHSIP/STP-EN-10(47)
END PROJ. NO. 95003-3216-94 (CONST.)
STA. 512+00.00
N 682893.7885
E 1882757.8206



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 110114
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 507+00 TO STA. 512+00

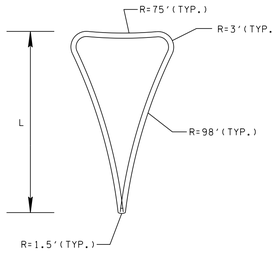
SCALE: 1"= 30'

29-APR-2014 09:01
C:\projects\WILSON CO LEBANON TOWN SQUARE\005A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	5B

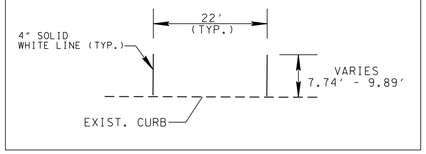
PHSIP/STP-EN-10(47)
END PROJ. NO. 95003-3216-94 (CONST.)
STA. 512+00.00
N 682893.7885
E 1882757.8206

RAISED CONCRETE ISLAND DETAIL
(SCALE: 1"=60')



L = 34'(NORTH APPROACH)
L = 36'(EAST APPROACH)
L = 35'(SOUTH APPROACH)
L = 37'(WEST APPROACH)

DETAIL OF ON-STREET PARKING STALL



DETAIL OF PARKING STALL LAYOUT
IN LEBANON PUBLIC SQUARE

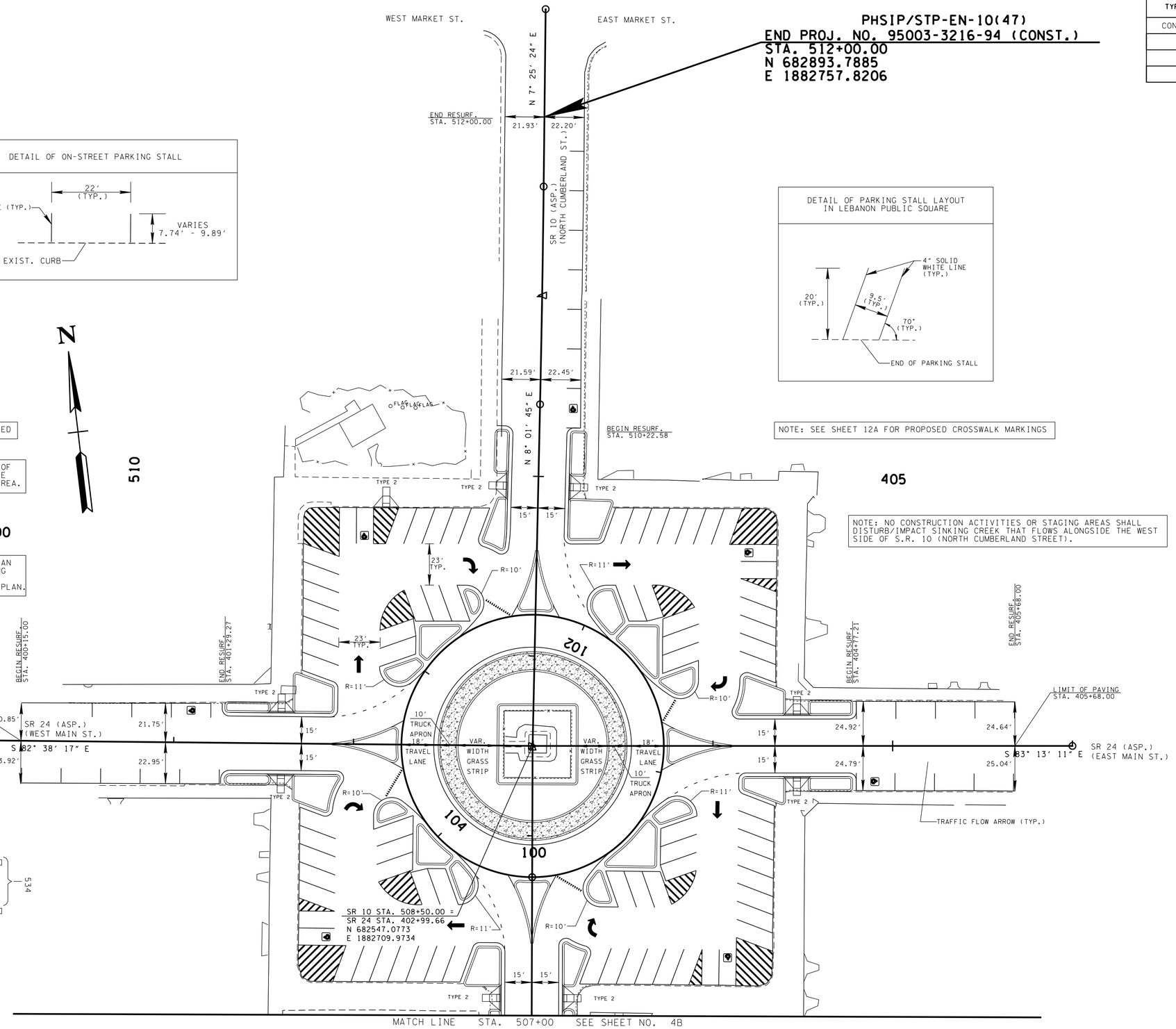
NOTE: ALL CURB RADII TWO FEET (2') UNLESS OTHERWISE NOTED

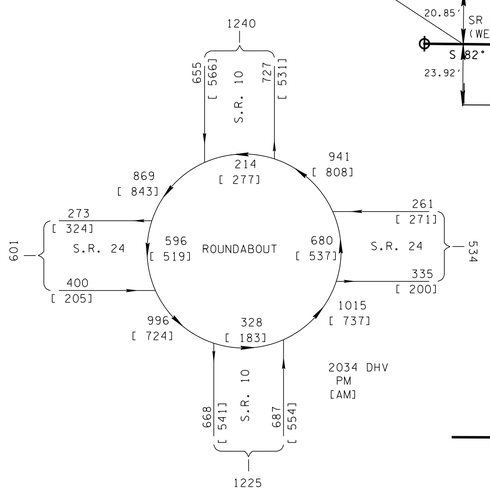
NOTE: THERE SHALL BE NO DISTURBANCE TO THE AREA INSIDE OF THE FENCE IN THE CENTER OF THE SQUARE WHICH CONTAINS THE STATUE. ALL PROPOSED WORK SHALL OCCUR OUTSIDE OF THIS AREA.

NOTE: REFER TO SHEETS 12 & 12A FOR PROPOSED SIDEWALK PLAN AND DETAILS; SHEETS 13, 13A, & 13B FOR PROPOSED LIGHTING PLAN, POWER PLAN, AND DETAILS; SHEET 14 FOR PROPOSED IRRIGATION PLAN, AND SHEET 15 FOR PROPOSED STORM SEWER PLAN.

NOTE: SEE SHEET 12A FOR PROPOSED CROSSWALK MARKINGS

NOTE: NO CONSTRUCTION ACTIVITIES OR STAGING AREAS SHALL DISTURB/IMPACT SINKING CREEK THAT FLOWS ALONGSIDE THE WEST SIDE OF S.R. 10 (NORTH CUMBERLAND STREET).

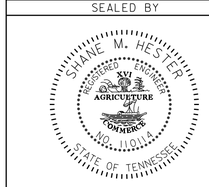




UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 507+00 TO STA. 512+00

SCALE: 1"= 30'

29-APR-2014 09:01
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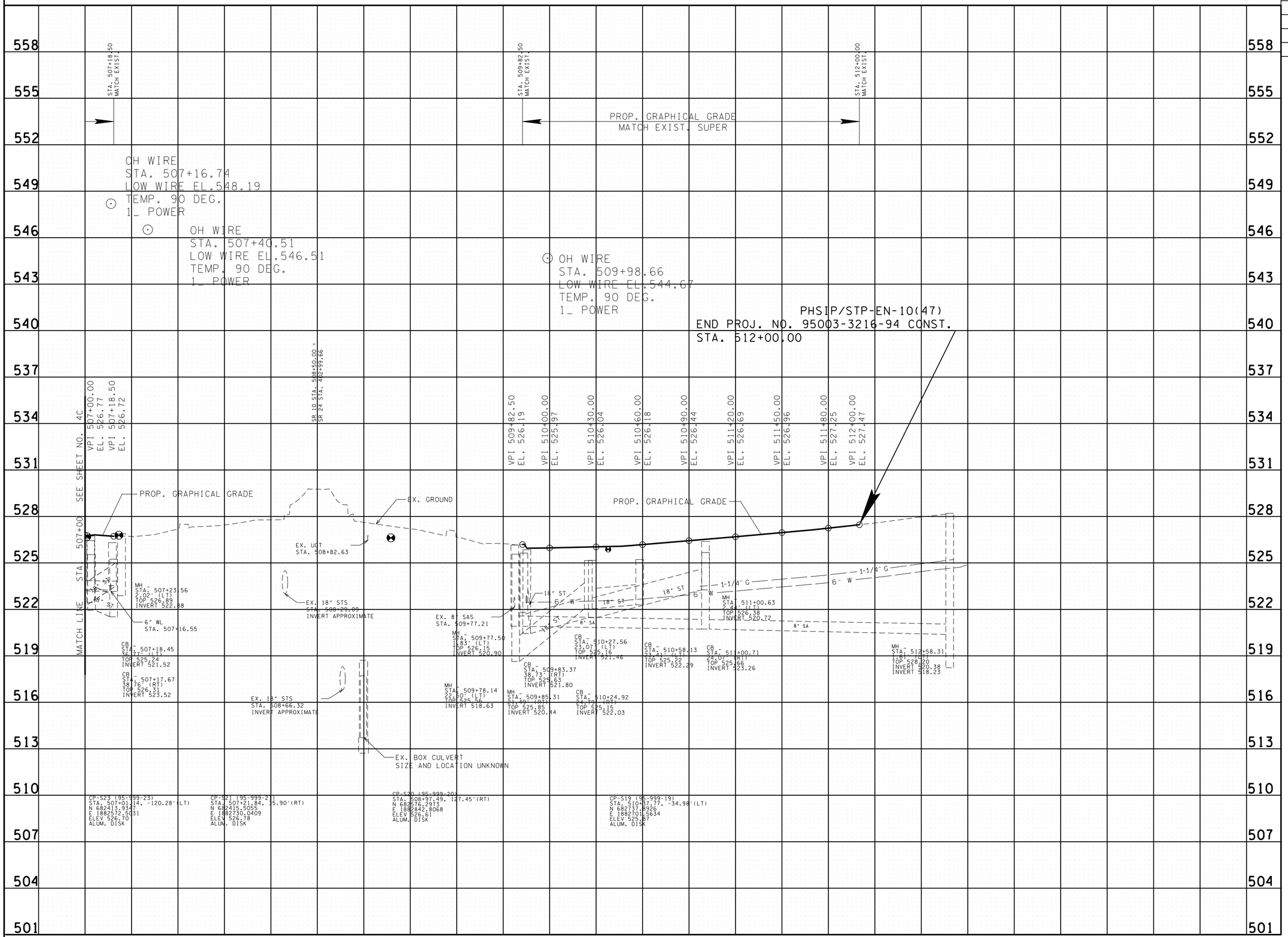
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	5C



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

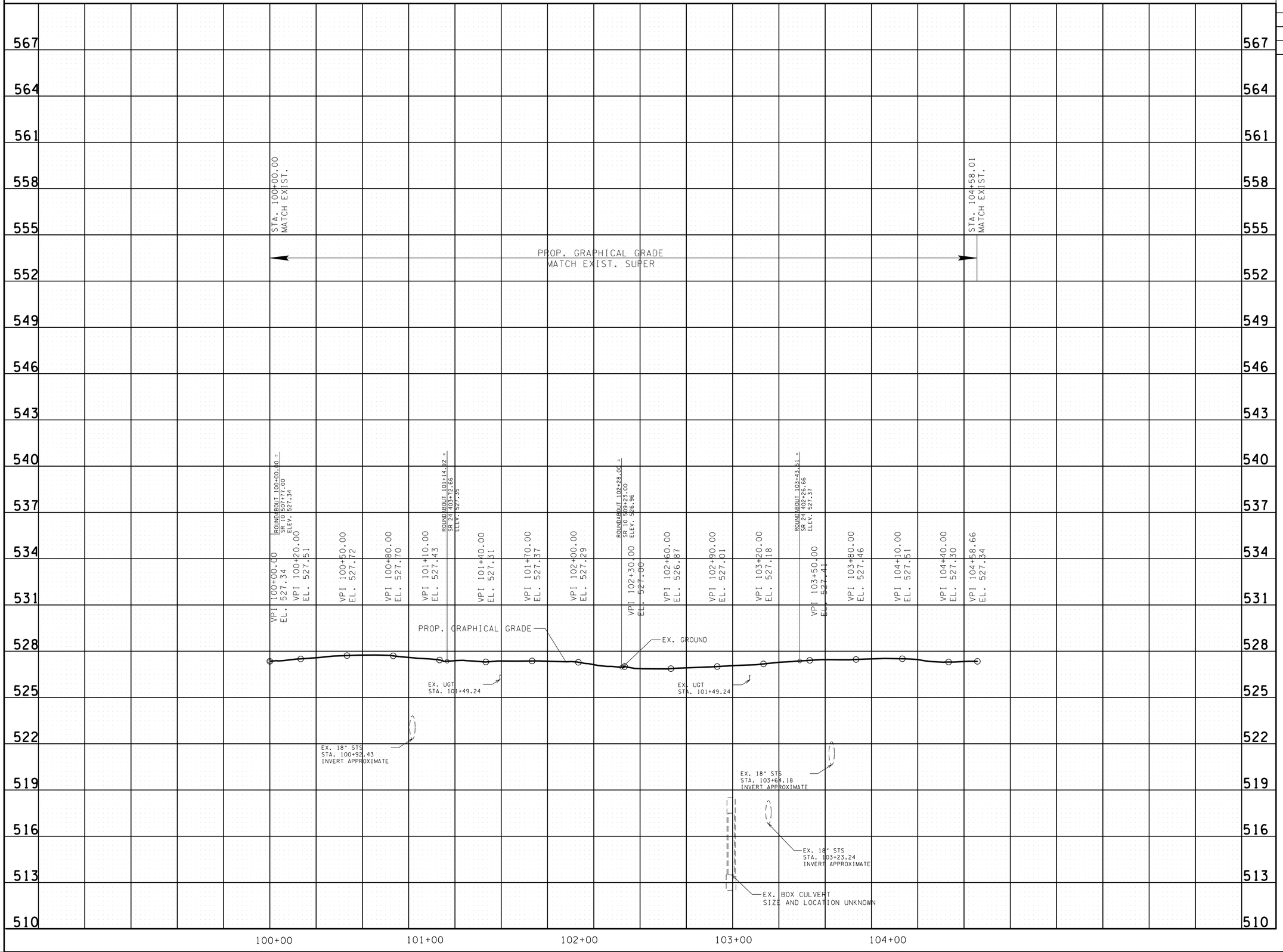
S.R. 10 PROFILE

STA. 507+00 TO STA. 512+00

SCALE: 1"= 30' HORIZ.
1"= 3' VERT.

29-APR-2014 09:10
C:\projects\WILSON CO LEBANON TOWN SQUARE\005C.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	6



29-APR-2014 09:01
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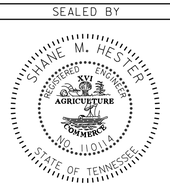
UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



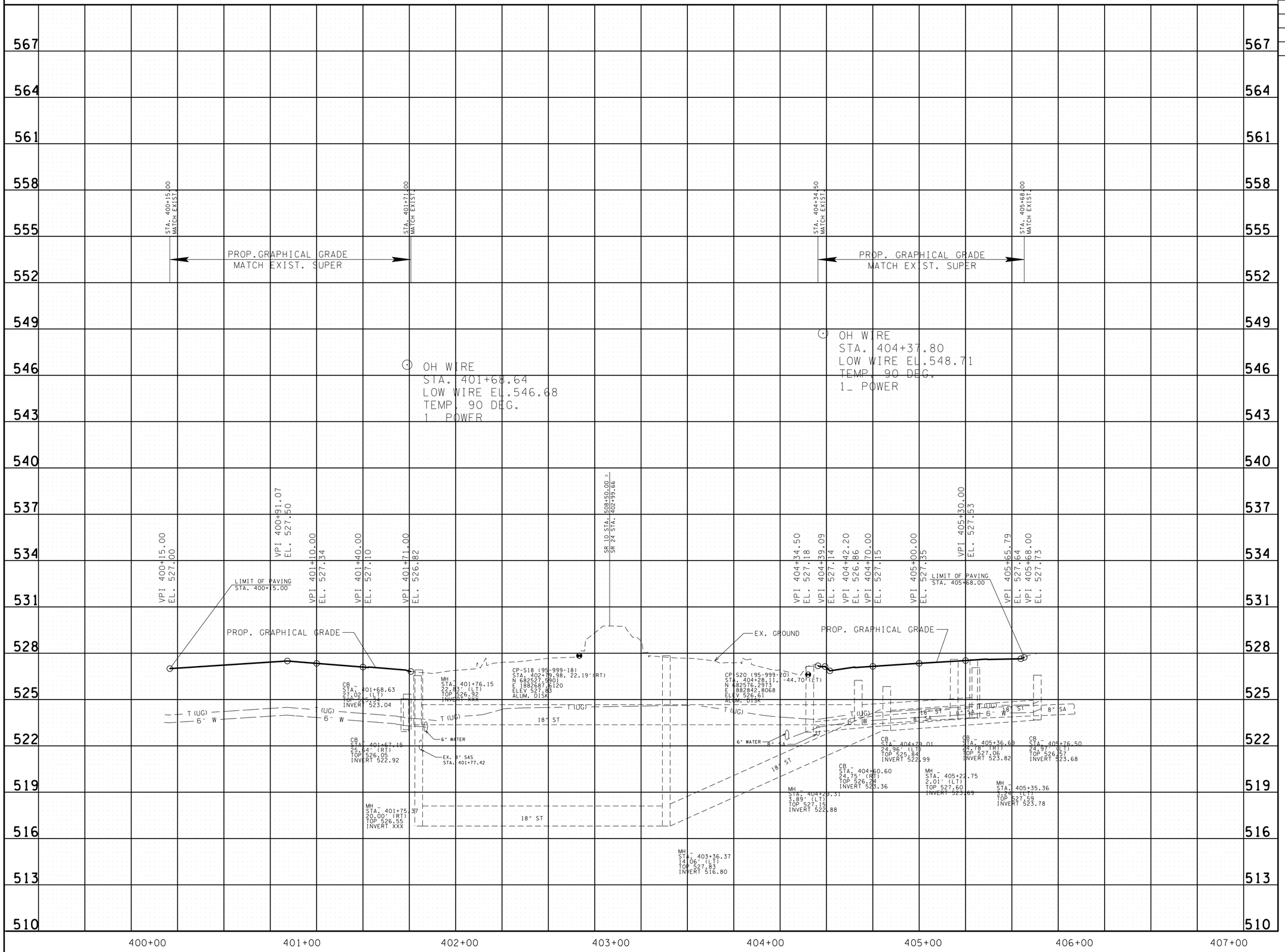
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROUNDABOUT PROFILE

STA.100+00 TO STA.104+58.41

SCALE: 1"= 30' HORIZ.
1"= 3' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	6A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

SHANE M. HESTER
REGISTERED ENGINEER
XV AGRICULTURE COMMERCE
NO. 110114
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

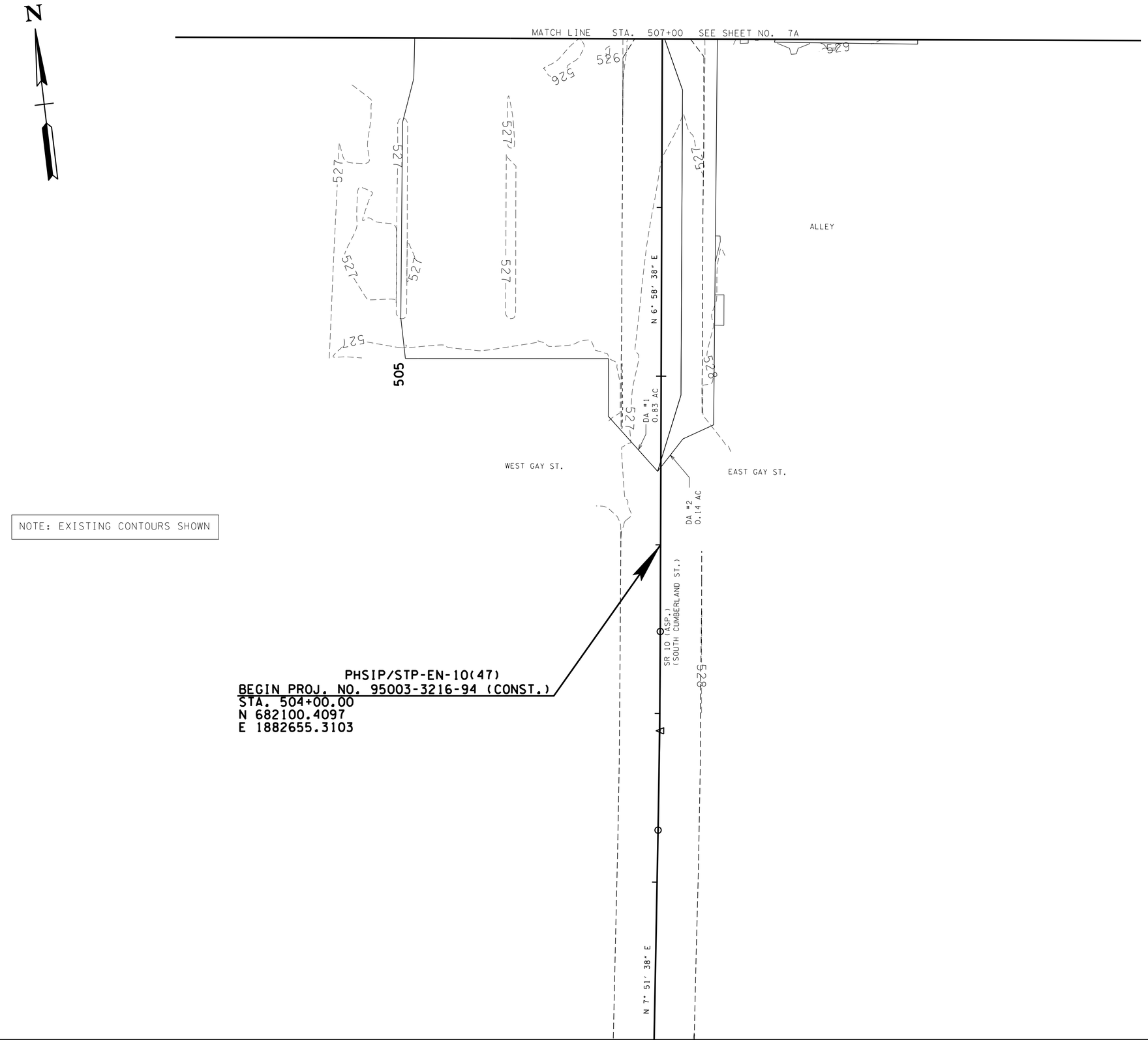
S.R. 24 PROFILE

STA. 400+96 TO STA. 404+75

SCALE: 1"= 30' HORIZ.
1"= 3' VERT.

29-APR-2014 09:01
C:\projects\WILSON CO LEBANON TOWN SQUARE\006A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	7



NOTE: EXISTING CONTOURS SHOWN

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

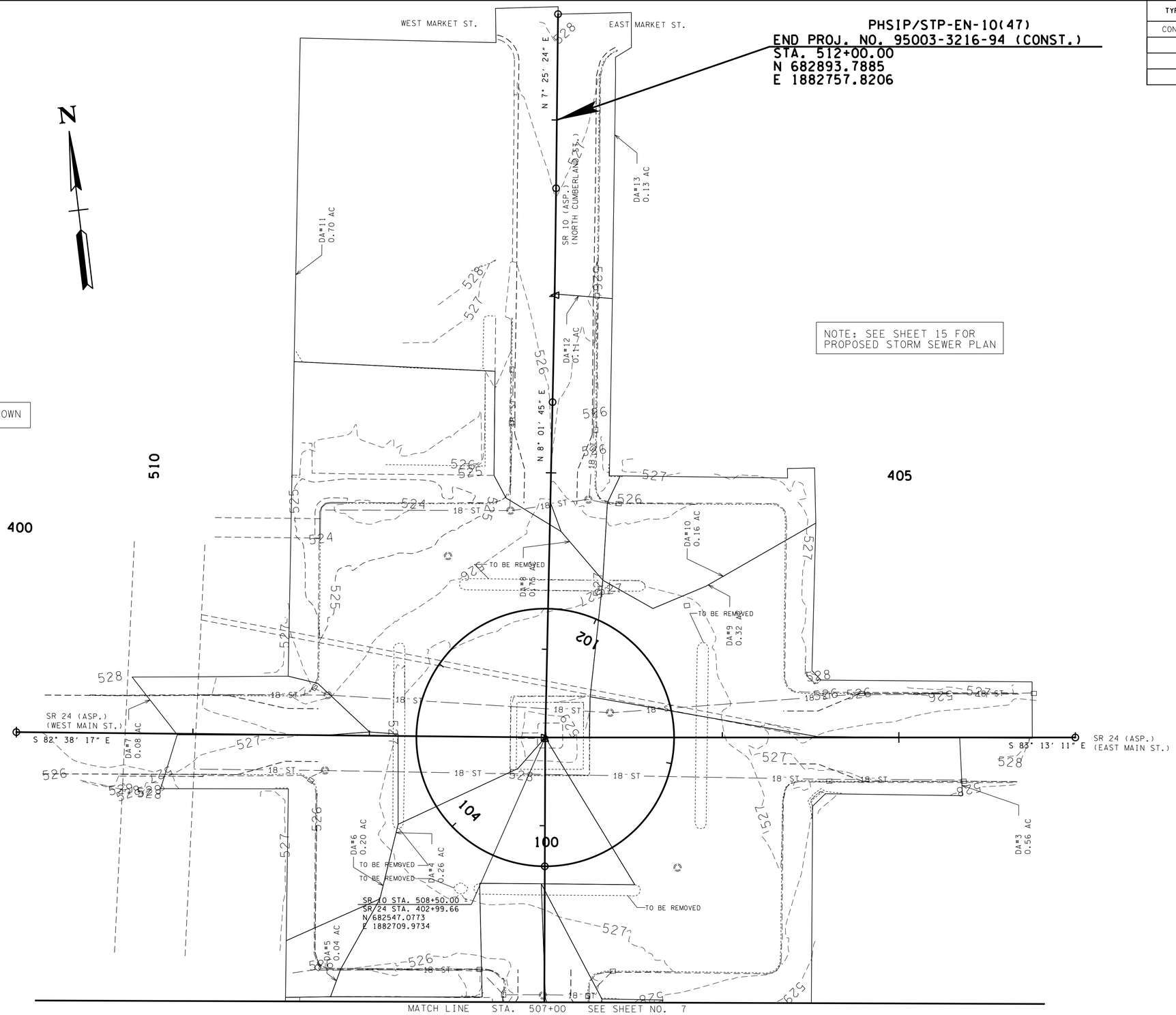
DRAINAGE MAP

STA. 504+00 TO STA. 507+00

SCALE: 1"= 30'

29-APR-2014 09:01
c:\projects\WILSON CO LEBANON TOWN SQUARE\007.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	7A



NOTE: SEE SHEET 15 FOR PROPOSED STORM SEWER PLAN

NOTE: EXISTING CONTOURS SHOWN

UNOFFICIAL SET

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SHANE M. HESTER
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COMMERCE
NO. 110114
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 507+00 TO STA. 512+00

SCALE: 1"= 30'

29-APR-2014 09:01
c:\projects\WILSON CO LEBANON TOWN SQUARE\00TA.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	8

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
×× SOCK ×× SOCK ××	FILTER SOCK	EC-STR-8
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
2.)	209-03.20	FILTER SOCK (8 INCH)	L.F.	497
	209-05	SEDIMENT REMOVAL	C.Y.	8
1.)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	27
2.)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1
	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	28

1.) ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
2.) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.

UNOFFICIAL SET

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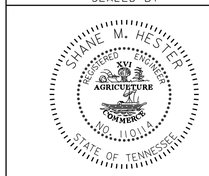
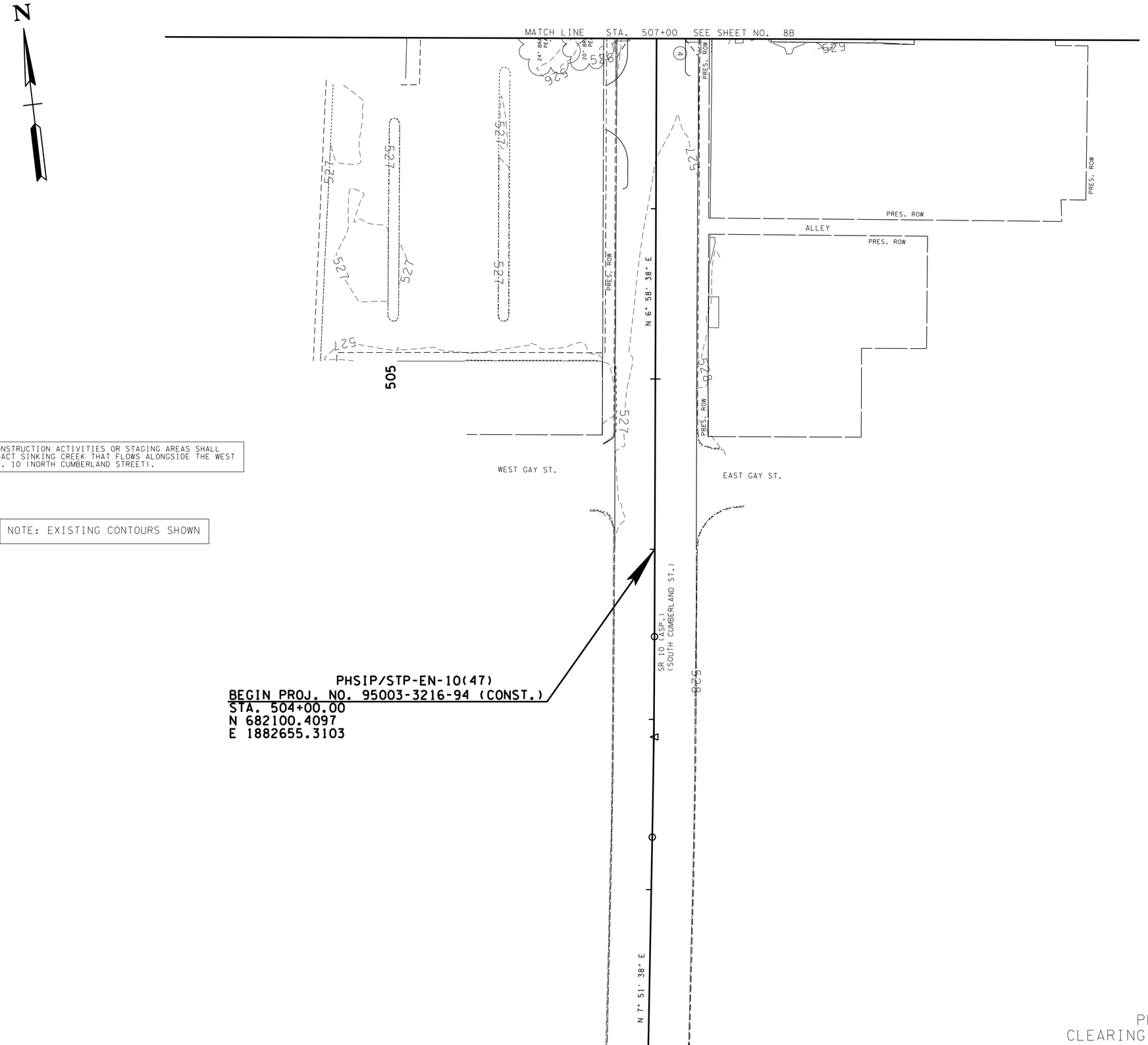


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC LEGEND AND QUANTITIES

29-APR-2014 14:37
C:\projects\WILSON CO LEBANON TOWN SQUARE\008.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	8A



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NOTE: EXISTING CONTOURS SHOWN

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SHANE M. HESTER
REGISTERED ENGINEER
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 504+00 TO STA. 507+00

SCALE: 1"= 30'

PHASE I
CLEARING AND GRUBBING

29-APR-2014 09:01
C:\projects\WILSON CO LEBANON TOWN SQUARE\008A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	8B

PHSIP/STP-EN-10(47)
END PROJ. NO. 95003-3216-94 (CONST.)
STA. 512+00.00
N 682893.7885
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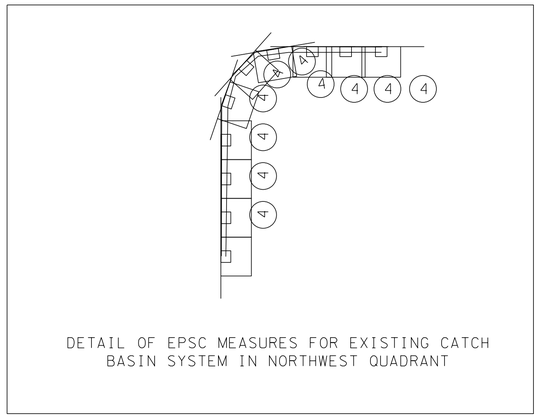

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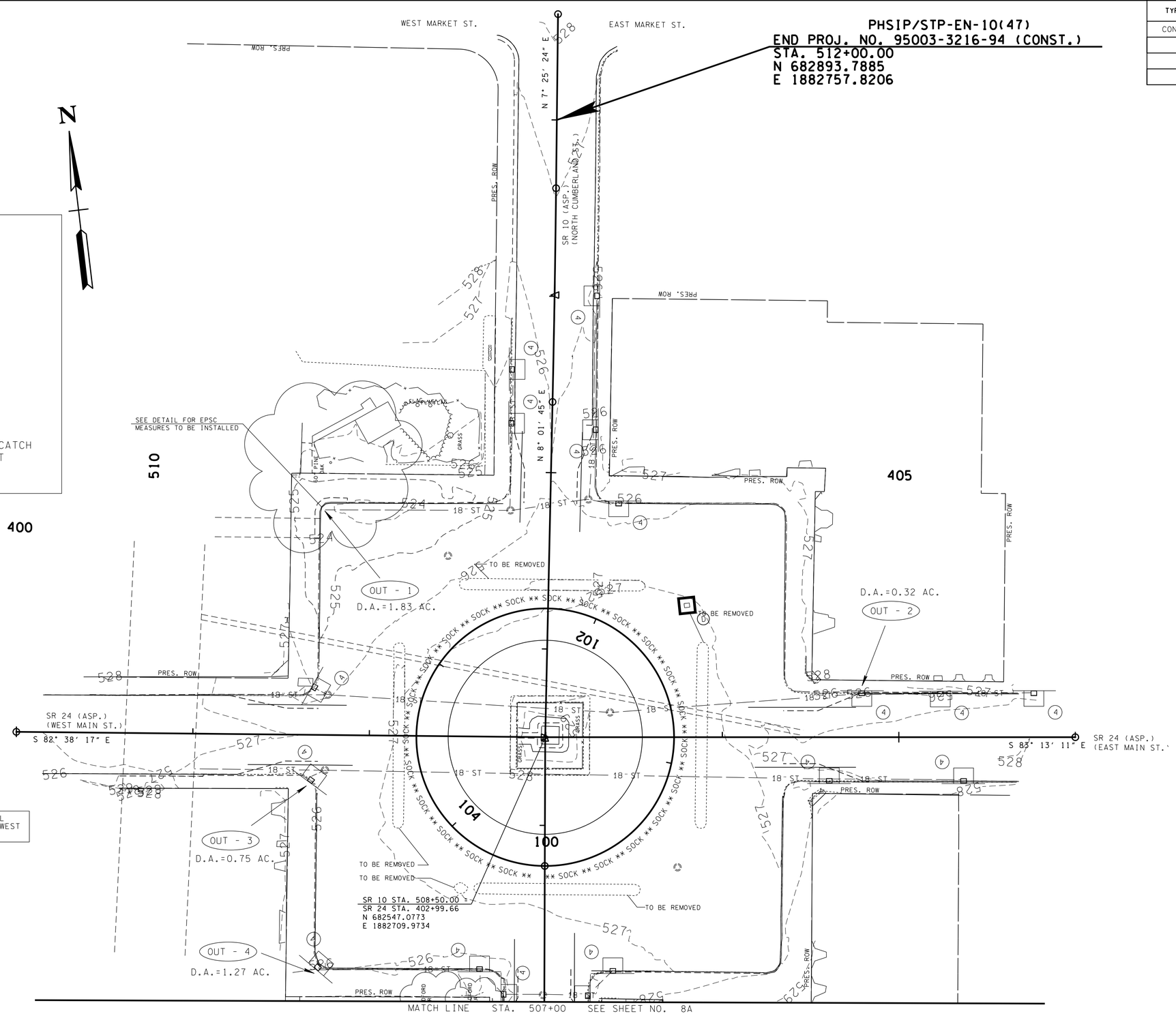

PHASE I
CLEARING AND GRUBBING

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

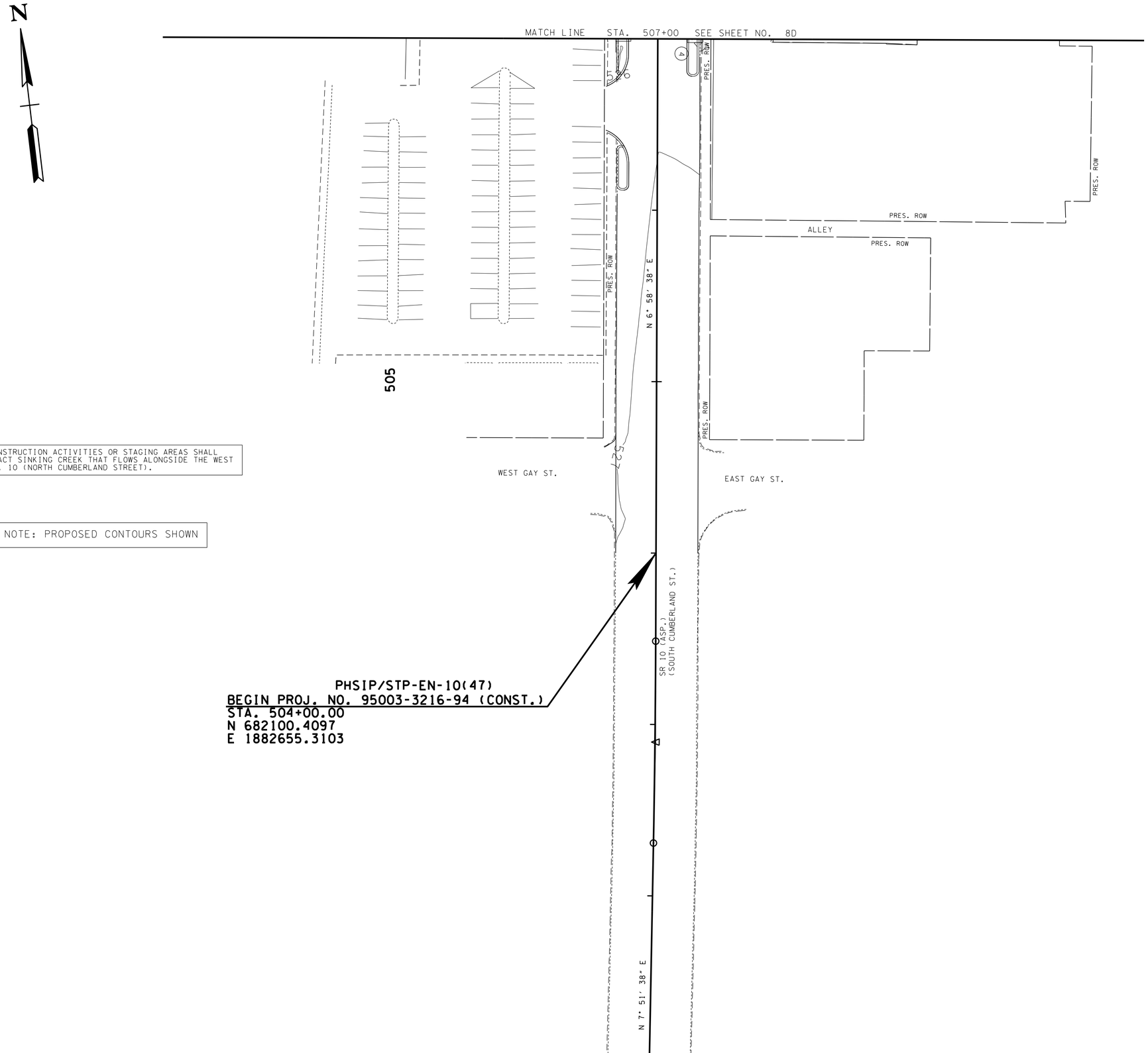
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 507+00 TO STA. 512+00

SCALE: 1"= 30'

29-APR-2014 09:01
c:\projects\WILSON CO LEBANON TOWN SQUARE\008B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	8C



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NOTE: PROPOSED CONTOURS SHOWN

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 507+00 TO STA. 512+00

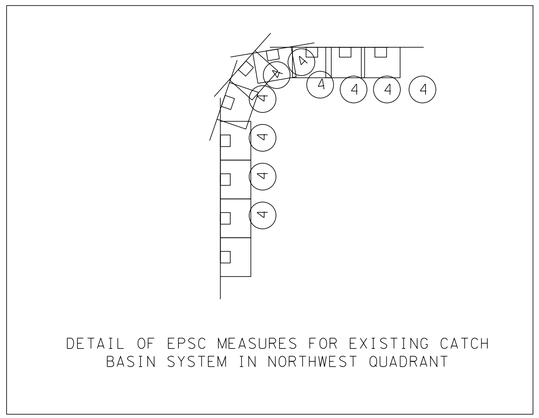
SCALE: 1"= 30'

PHASE II
FINAL

29-APR-2014 09:01
C:\projects\WILSON CO LEBANON TOWN SQUARE\008C.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	8D

PHSIP/STP-EN-10(47)
END PROJ. NO. 95003-3216-94 (CONST.)
STA. 512+00.00
N 682893.7885
E 1882757.8206



NOTE: PROPOSED CONTOURS SHOWN

NOTE: NO CONSTRUCTION ACTIVITIES OR STAGING AREAS SHALL DISTURB/IMPACT SINKING CREEK THAT FLOWS ALONGSIDE THE WEST SIDE OF S.R. 10 (NORTH CUMBERLAND STREET).

WEST MARKET ST.
EAST MARKET ST.
N 7° 25' 24" E
SR 10 (ASP.) (NORTH CUMBERLAND ST.)
N 8° 01' 45" E
SR 24 (ASP.) (WEST MAIN ST.)
S 82° 38' 17" E
SR 24 (ASP.) (EAST MAIN ST.)
S 83° 13' 11" E
PRES. ROW
18" ST
SEE DETAIL FOR EPSC MEASURES TO BE INSTALLED
OUT - 1
D.A.=1.83 AC.
OUT - 2
D.A.=0.32 AC.
OUT - 3
D.A.=0.75 AC.
OUT - 4
D.A.=1.27 AC.
SR 10 STA. 508+50.00
SR 24 STA. 402+99.66
N 682547.0773
E 1882709.9734
100
102
104
400
405
510
MATCH LINE STA. 507+00 SEE SHEET NO. 8C

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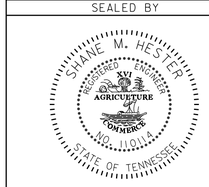

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 507+00 TO STA. 512+00
SCALE: 1"= 30'

PHASE II
FINAL

29-APR-2014 09:01
C:\projects\WILSON CO LEBANON TOWN SQUARE\008D.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	9

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:

a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

29-APR-2014 09:01
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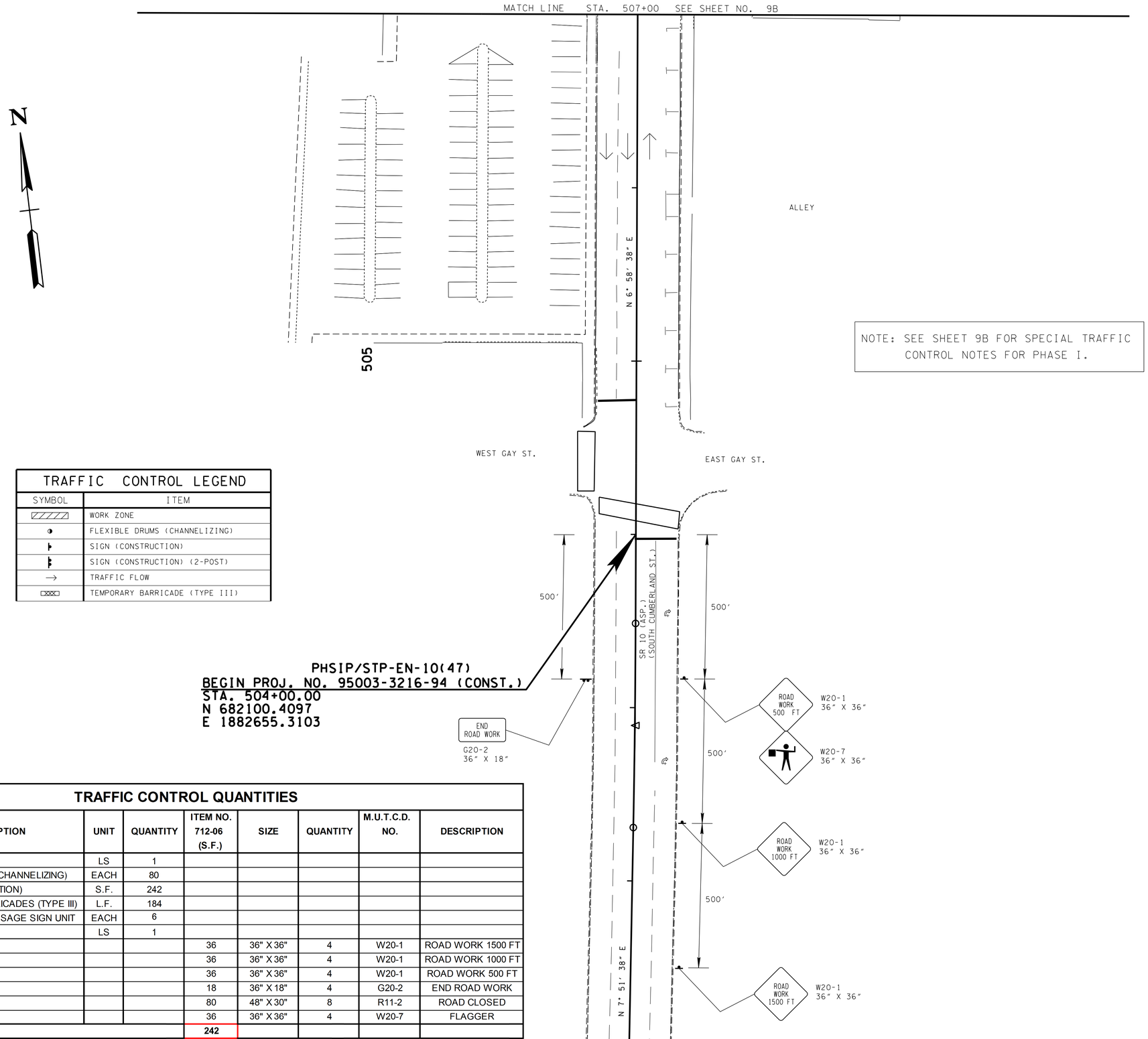
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	9A



NOTE: SEE SHEET 9B FOR SPECIAL TRAFFIC CONTROL NOTES FOR PHASE I.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	QUANTITY	M.U.T.C.D. NO.	DESCRIPTION
712-01	TRAFFIC CONTROL	LS	1					
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	80					
712-06	SIGNS (CONSTRUCTION)	S.F.	242					
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	184					
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	6					
717-01	MOBILIZATION	LS	1					
				36	36" X 36"	4	W20-1	ROAD WORK 1500 FT
				36	36" X 36"	4	W20-1	ROAD WORK 1000 FT
				36	36" X 36"	4	W20-1	ROAD WORK 500 FT
				18	36" X 18"	4	G20-2	END ROAD WORK
				80	48" X 30"	8	R11-2	ROAD CLOSED
				36	36" X 36"	4	W20-7	FLAGGER
TOTAL				242				

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SHANE M. HESTER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 110114
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE I

STA. 504+00 TO STA. 507+00

SCALE: 1"= 30'

29-APR-2014 09:03
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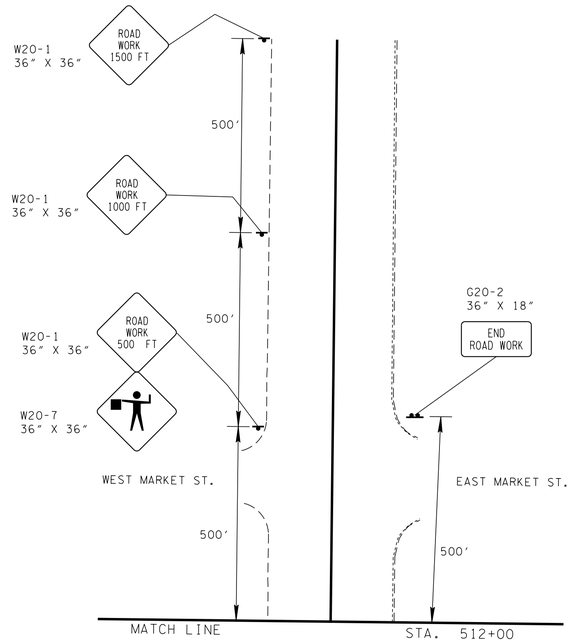
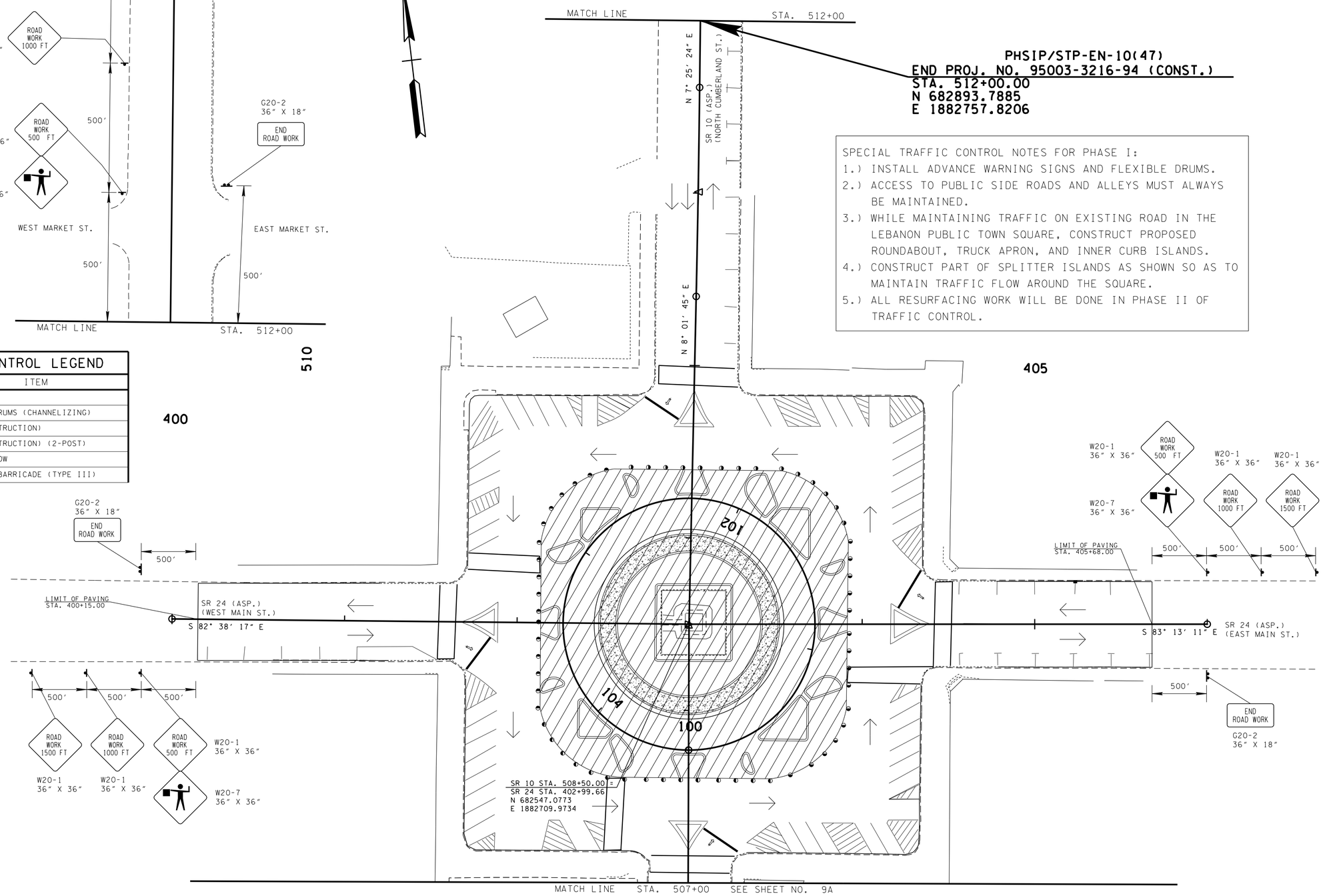
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	9B



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)

400



PHSIP/STP-EN-10(47)
END PROJ. NO. 95003-3216-94 (CONST.)
STA. 512+00.00
N 682893.7885
E 1882757.8206

SPECIAL TRAFFIC CONTROL NOTES FOR PHASE I:

1.) INSTALL ADVANCE WARNING SIGNS AND FLEXIBLE DRUMS.
2.) ACCESS TO PUBLIC SIDE ROADS AND ALLEYS MUST ALWAYS BE MAINTAINED.
3.) WHILE MAINTAINING TRAFFIC ON EXISTING ROAD IN THE LEBANON PUBLIC TOWN SQUARE, CONSTRUCT PROPOSED ROUNDABOUT, TRUCK APRON, AND INNER CURB ISLANDS.
4.) CONSTRUCT PART OF SPLITTER ISLANDS AS SHOWN SO AS TO MAINTAIN TRAFFIC FLOW AROUND THE SQUARE.
5.) ALL RESURFACING WORK WILL BE DONE IN PHASE II OF TRAFFIC CONTROL.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE I

STA. 507+00 TO STA. 512+00

SCALE: 1"= 30'

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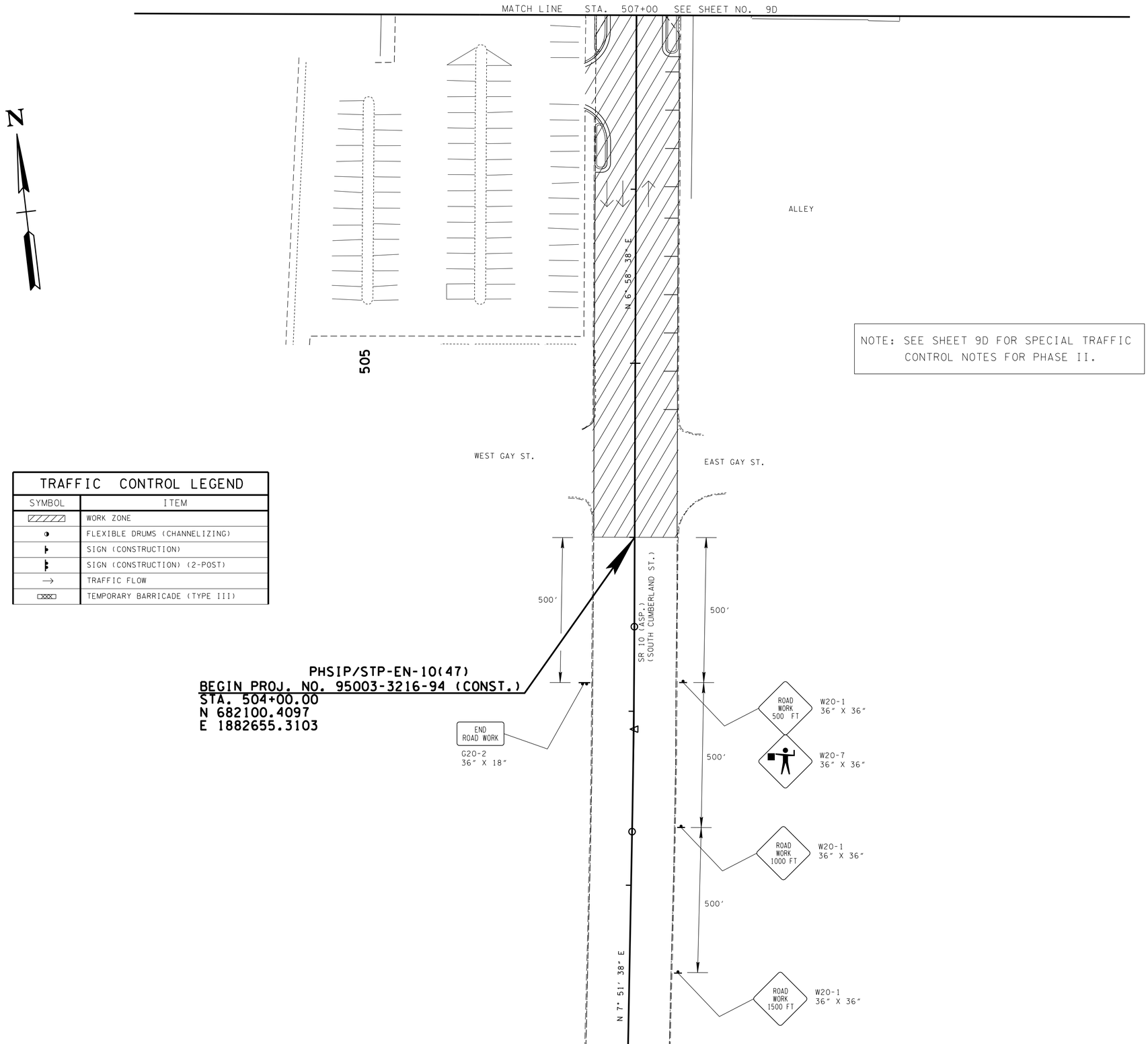
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	9C



NOTE: SEE SHEET 9D FOR SPECIAL TRAFFIC CONTROL NOTES FOR PHASE II.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE II

STA. 504+00 TO STA. 507+00

SCALE: 1"= 30'

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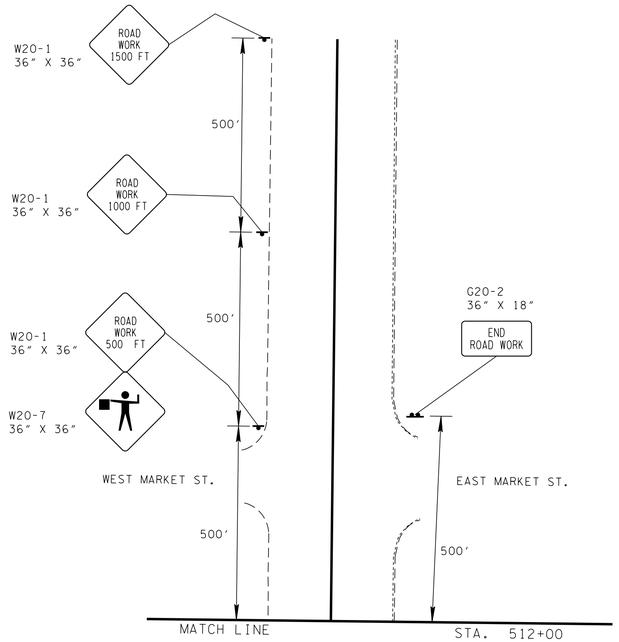
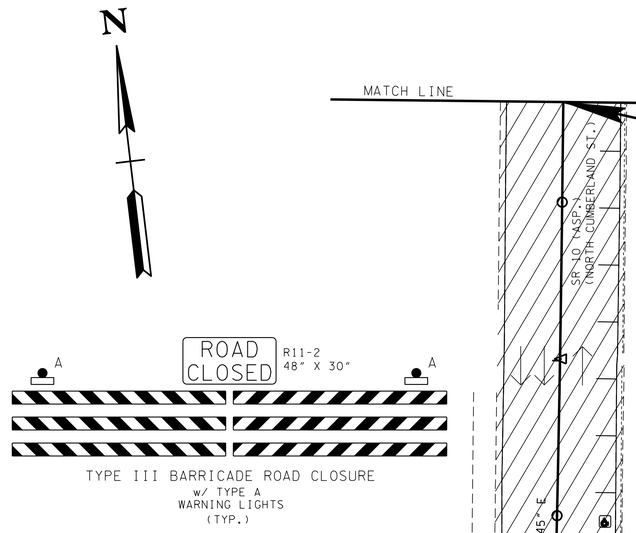
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	9D



510

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)

400



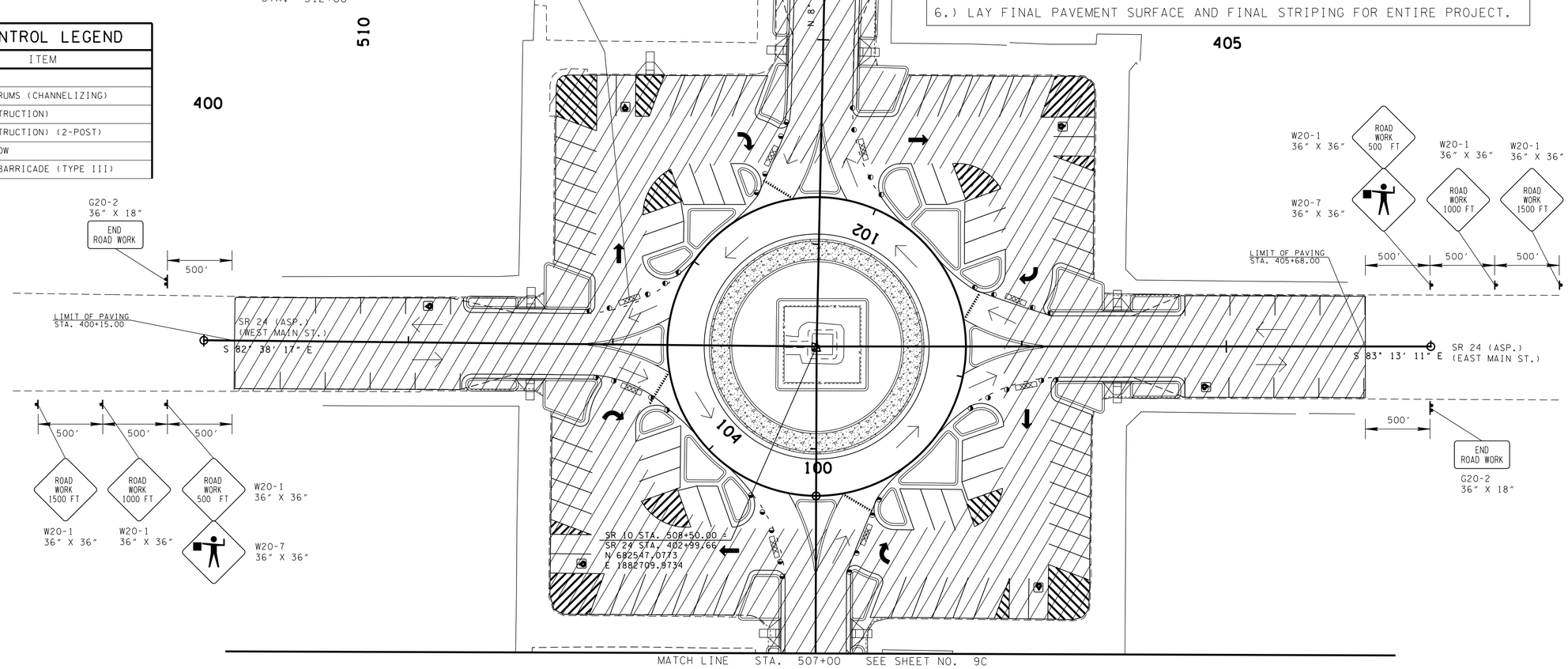
MATCH LINE STA. 512+00

PHSIP/STP-EN-10(47)
END PROJ. NO. 95003-3216-94 (CONST.)
STA. 512+00.00
N 682893.7885
E 1882757.8206

SPECIAL TRAFFIC CONTROL NOTES FOR PHASE II:

1.) INSTALL FLEXIBLE DRUMS AND TYPE III BARRICADES AS NECESSARY.
2.) ACCESS TO PUBLIC SIDE ROADS AND ALLEYS MUST ALWAYS BE MAINTAINED.
3.) SHIFT TRAFFIC TO THE NEWLY BUILT LEBANON PUBLIC TOWN SQUARE ROUNDABOUT.
4.) CONSTRUCT LEBANON PUBLIC TOWN SQUARE PARKING AREAS, OUTER CURB ISLANDS, REMAINDER OF SPLITTER ISLANDS, PROPOSED DRAINAGE FEATURES, AND OTHER FEATURES NOT CONSTRUCTED IN PHASE I OF TRAFFIC CONTROL. EACH QUADRANT WILL INCLUDE ONE (1) CROSS-WALK AND WILL BE CONSTRUCTED INDIVIDUALLY BEGINNING WITH THE SW QUADRANT AND GOING IN A CLOCKWISE FASHION UNTIL ALL QUADRANTS ARE CONSTRUCTED.
5.) USING DRUMS AND FLAGGERS, DO ALL COLD-PLANING OUTSIDE OF LIMITS OF LEBANON PUBLIC TOWN SQUARE.
6.) LAY FINAL PAVEMENT SURFACE AND FINAL STRIPING FOR ENTIRE PROJECT.

405



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE II

STA. 507+00 TO STA. 512+00

SCALE: 1"= 30'

29-APR-2014 09:03
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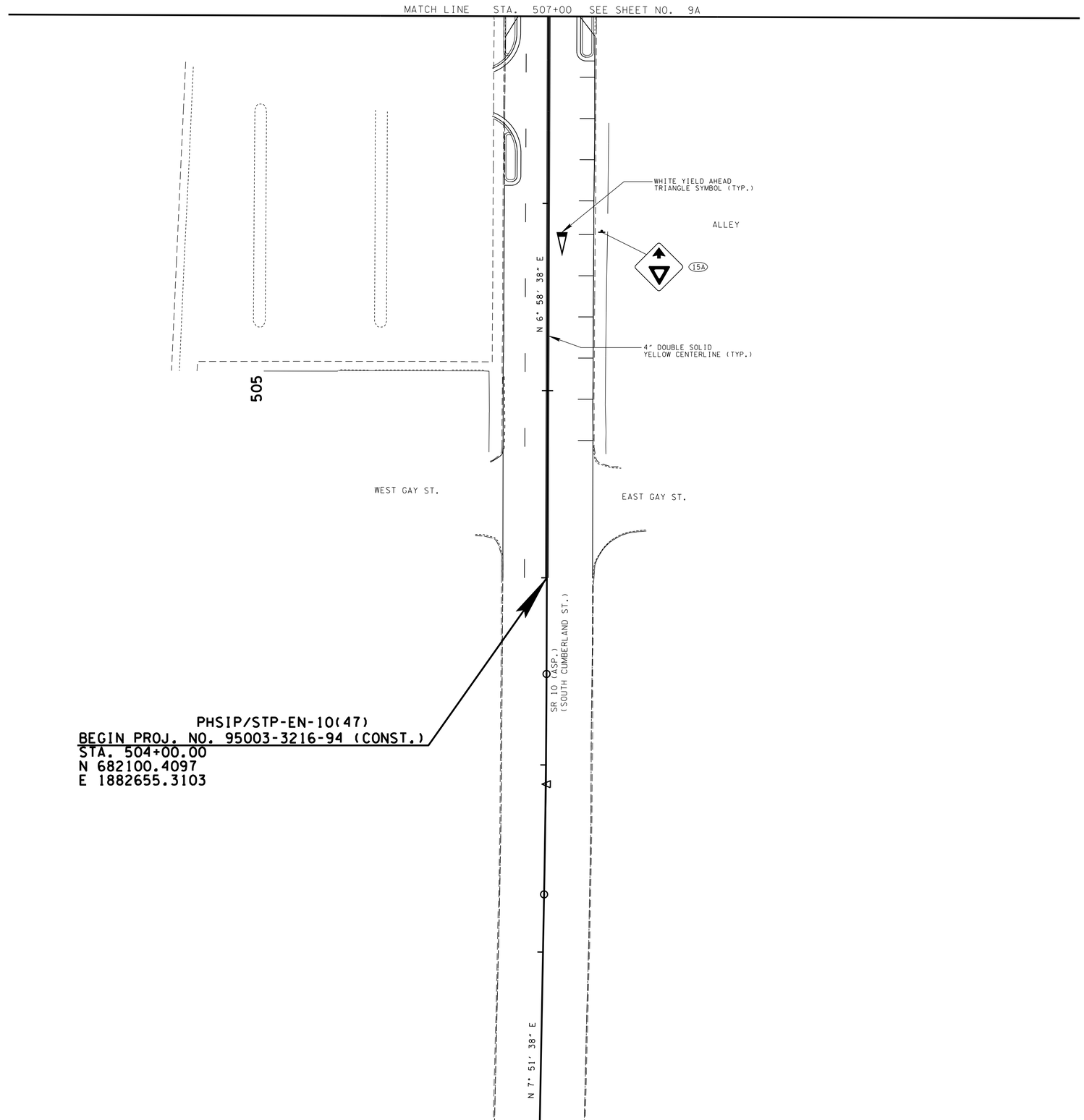
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	10



NOTE: SEE SHEET 5B FOR PARKING STALL DETAILS

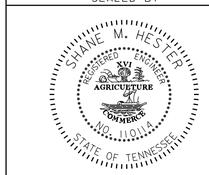
NOTE: SEE SHEET 12A FOR TRAFFIC SIGN BASE, ARCHITECTURAL SIGN POST, AND CROSSWALK MARKING DETAILS

PHSIP/STP-EN-10(47)
BEGIN PROJ. NO. 95003-3216-94 (CONST.)
STA. 504+00.00
N 682100.4097
E 1882655.3103

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.504+00 TO STA.507+00

SCALE: 1:30

29-APR-2014 09:03
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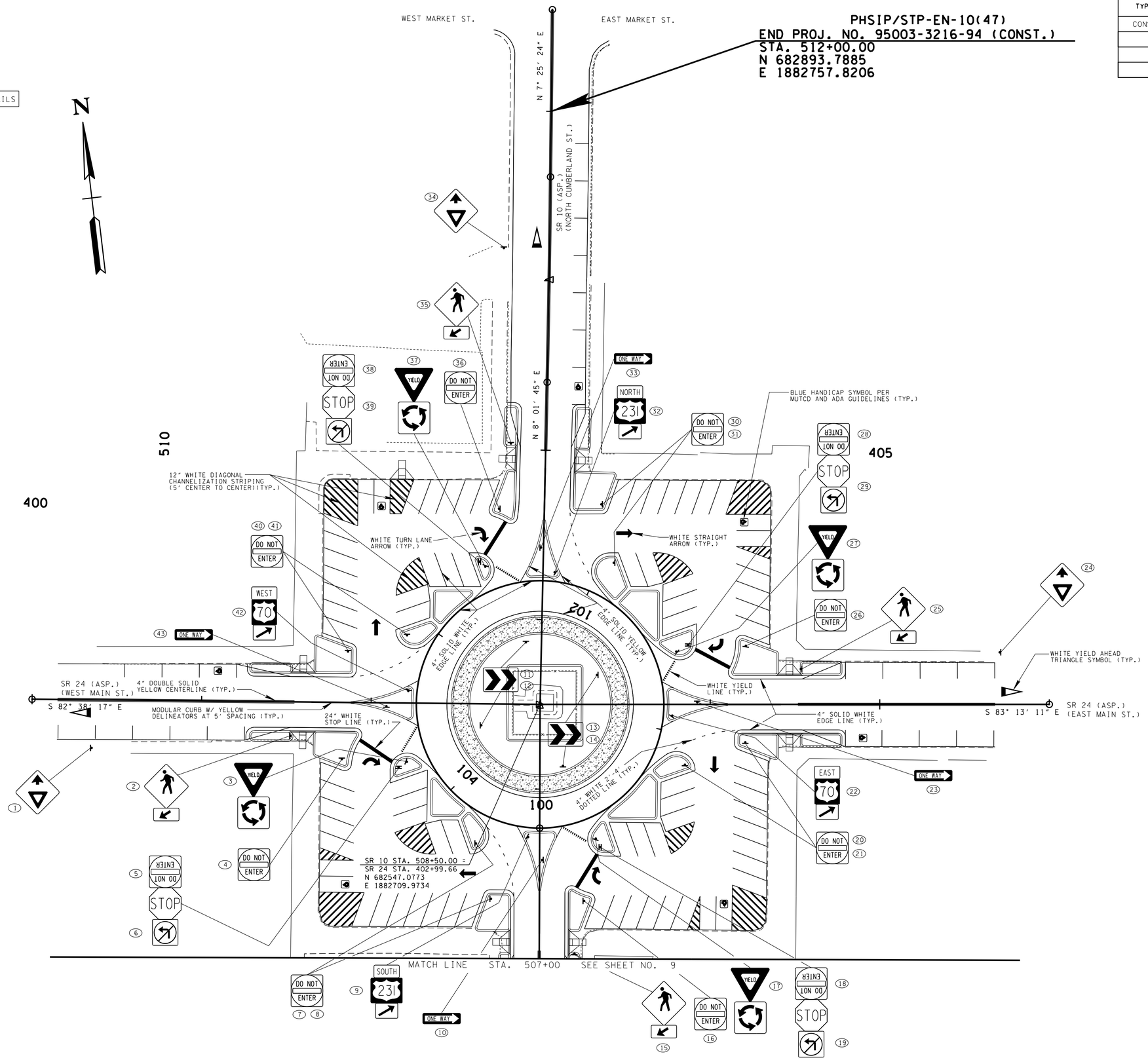
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	10A

NOTE: SEE SHEET 5B FOR PARKING STALL DETAILS

NOTE: SEE SHEET 12A FOR TRAFFIC SIGN BASE, ARCHITECTURAL SIGN POST, AND CROSSWALK MARKING DETAILS



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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.507+00 TO STA.512+00

SCALE: 1:30

29-APR-2014 11:16
C:\projects\WILSON CO LEBANON TOWN SQUARE\OIOA.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	11

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
1	W3-2		36"	36"									(ARROW) BLACK (YEILD) RED (REF.)	YELLOW (FLOR.)	0.100" SHEET ALUMINUM	~~P8~~	~~h =13'-0"~~				7'-0"	SUPPORTS AND BASES TO BE PAID FOR UNDER 713-20.01 AND 713-20.02. SEE SHEET 12A FOR DETAILS
15A																	~~h =13'-0"~~					
24																	~~h =13'-0"~~					
34																	~~h =13'-0"~~					
2	W11-2		36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	~~P8~~	~~h =14'-0"~~				7'-0"	
15																	~~h =14'-0"~~					
25																	~~h =14'-0"~~					
35	W16-7P		24"	12"													~~h =14'-0"~~					
3	R1-2		36"X36"X36"										RED (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	~~P5~~	~~h =11'-6"~~	~~REQUIRES SLIP BASE ITEM NO. 713-11.21 STD DWG. T-S-23A~~			7'-0"	
17														WHITE			~~h =11'-6"~~					
27	R6-5P		30"	30"									BLACK	WHITE (REF.)			~~h =11'-6"~~					
37																	~~h =11'-6"~~					
4	R5-1		36"	36"									WHITE (REF.)	WHITE (REF.) RED (REF.)	0.100" SHEET ALUMINUM	~~P8~~	~~h =12'-6"~~				7'-0"	
7																	~~h =12'-6"~~					
8																	~~h =12'-6"~~					
16																	~~h =12'-6"~~					
20																	~~h =12'-6"~~					
21																	~~h =12'-6"~~					
26																	~~h =12'-6"~~					
30																	~~h =12'-6"~~					
31																	~~h =12'-6"~~					
36																	~~h =12'-6"~~					
40																	~~h =12'-6"~~					
41																	~~h =12'-6"~~					
5																						MOUNTED BEHIND SIGN NO. 6
18																						MOUNTED BEHIND SIGN NO. 19
28																						MOUNTED BEHIND SIGN NO. 29
38																						MOUNTED BEHIND SIGN NO. 39
6	R1-1		36"	36"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	~~P5~~	~~h =11'-6"~~	~~REQUIRES SLIP BASE ITEM NO. 713-11.21 STD DWG. T-S-23A~~			7'-0"	SUPPORTS AND BASES TO BE PAID FOR UNDER 713-20.01 AND 713-20.02. SEE SHEET 12A FOR DETAILS
19																	~~h =11'-6"~~					
29	R3-2		24"	24"									RED (REF.)	WHITE (REF.)			~~h =11'-6"~~					
39																	~~h =11'-6"~~					
10	R6-1R		36"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	~~U1~~	~~h =11'-0"~~				7'-0"	
23																	~~h =11'-0"~~					
33														BLACK			~~h =11'-0"~~					
43																	~~h =11'-0"~~					
11	R6-4		30"	24"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	~~U3~~	~~h =12'-0"~~				7'-0"	
12																	~~h =12'-0"~~					
13																	~~h =12'-0"~~					
14																	~~h =12'-0"~~					
32	NORTH M3-3		24"	12"									BLACK	(REF.) WHITE	0.080" SHEET ALUMINUM	~~P8~~	~~h =14'-6"~~				7'-0"	
	231 M1-4		30"	24"																		
	M6-2		21"	15"																		

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROLAND LEE JONES REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 17640 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	11A

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
9	SOUTH M3-1 231 M1-4 M6-2		24" 30" 21"	12" 24" 15"									BLACK	(REF.) WHITE	0.080" SHEET ALUMINUM	~~P8~~	~~h =14'-6"~~				7'-0"	SUPPORTS AND BASES TO BE PAID FOR UNDER 713-20.01 AND 713-20.02. SEE SHEET 12A FOR DETAILS
22	EAST M3-2 70 M1-4 M6-2		24" 24" 21"	12" 24" 15"									BLACK	(REF.) WHITE	0.080" SHEET ALUMINUM	~~P8~~	~~h =14'-6"~~				7'-0"	
42	WEST M3-4 70 M1-4 M6-2		24" 24" 21"	12" 24" 15"									BLACK	(REF.) WHITE	0.080" SHEET ALUMINUM	~~P8~~	~~h =14'-6"~~				7'-0"	

UNOFFICIAL SET

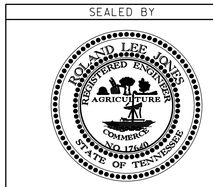
NOT FOR BIDDING

U-POST SUBSTITUTION TABLE

BID ITEM 713-11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MUI OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

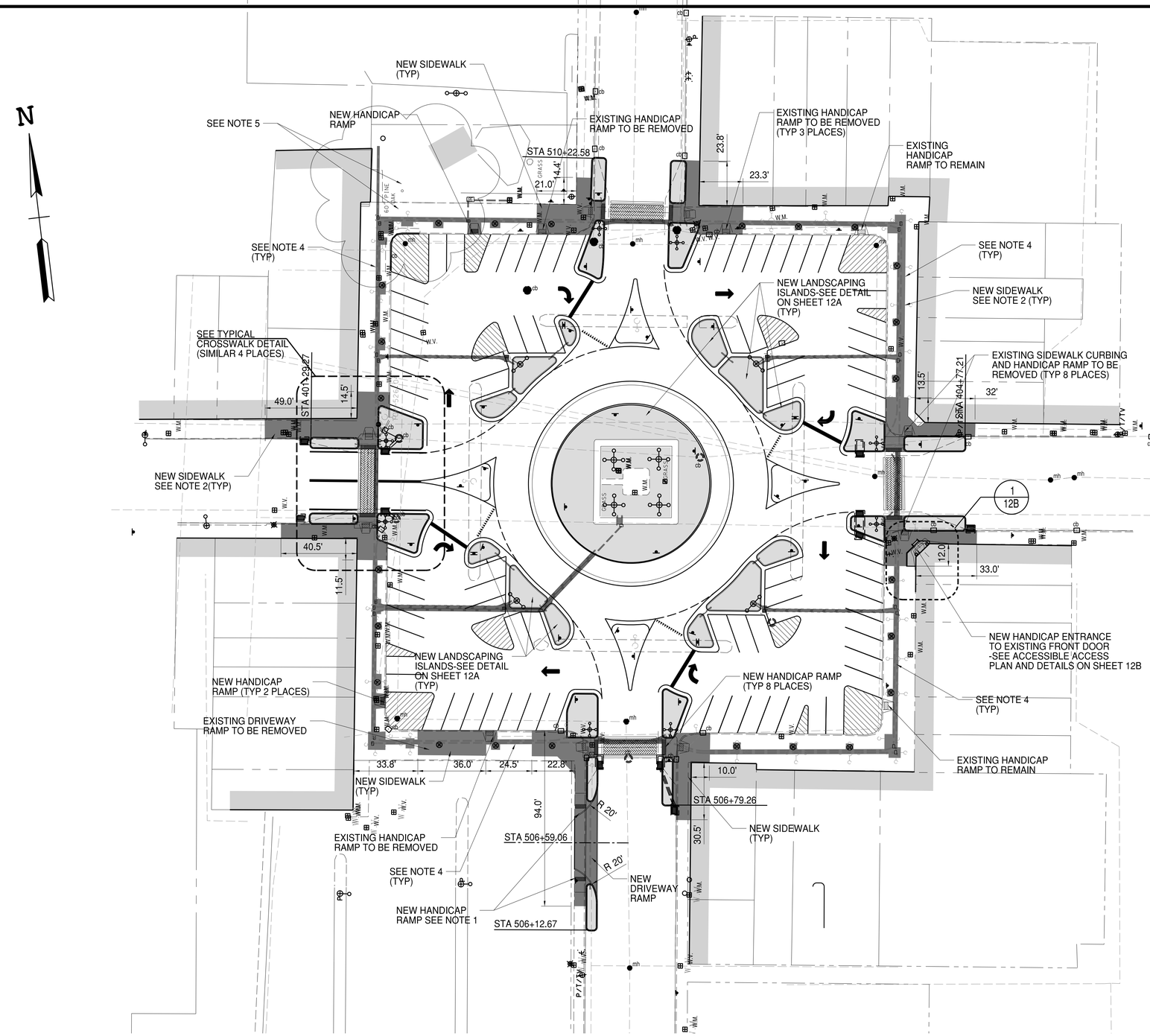
SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	12



NOTES:

1. CURB RAMPS TO BE IN ACCORDANCE WITH TDOT STANDARD DRAWING RP-H-4 OR RP-H-5.
2. SIDEWALKS IDENTIFIED FOR REPLACEMENT TO BE REPLACED IN ACCORDANCE WITH TDOT STANDARD DRAWING RP-S-7.
3. SIDEWALK REMOVAL AND REPLACEMENT SHALL USE EXISTING JOINTS IN SIDEWALK PAVEMENT FOR THE LIMITS OF PROPOSED REPLACEMENT WHEN POSSIBLE. PROVIDE SMOOTH TRANSITION FROM EXISTING SIDEWALKS TO NEW SIDEWALKS.
4. NEW UTILITY DUCT BANK- SEE TYPICAL DETAIL ON SHEET 13B.
5. SIDEWALK WORK IN THE VICINITY OF THE EXISTING MONUMENTAL TREE SHALL BE CONSTRUCTED IN A MANNER THAT PROTECTS THE INTEGRITY OF THE TREES ROOT SYSTEM TO THE GREATEST EXTENT POSSIBLE. NON-CONFORMING SIDEWALK SLOPES WILL BE TOLERATED IN DEFERENCE TO TREE PRESERVATION. EXCAVATION IN THE DRIPLINE OF THE TREE SHOULD BE KEPT TO A MINIMUM.
6. CONTRACTOR SHALL INVESTIGATE THE EXISTING CONDITIONS WHERE THE SIDEWALK TO BE REMOVED ABUTS AN EXISTING BUILDING. WHERE THE EXISTING BUILDING FACADE MATERIALS BEAR ON THE SIDEWALK; REMOVAL OF THE SIDEWALK SHALL BE TERMINATED 8" BEFORE THE FACE OF THE BUILDING.
7. WHERE SIDEWALKS TO BE REPLACED ABUT EXISTING BUILDINGS; THE CONTRACTOR SHALL MANAGE WORK IN THE IDENTIFIED AREAS TO MINIMIZE DISTURBANCE OF THE BUILDING FACADES AND FINISHES.
8. ALL COSTS FOR SIDEWALK CONCRETE SAW CUTTING SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NUMBER 202-3-"REMOVAL OF RIGID PAVEMENT, SIDEWALKS ETC"
9. BACKFILLING AND PLANTING OF PROPOSED LANDSCAPING ISLANDS TO BE BY THE CITY OF LEBANON.
10. CONTRACTOR SHALL COORDINATE BACKFILLING AND PLANTING OF THE LANDSCAPING ISLANDS WITH THE CITY OF LEBANON, CAPITAL PROJECT ENGINEER MR. RANDY LAINE, (615)444-3647 EXT 266.

UNOFFICIAL SET

NOT FOR BIDDING

MANOUS DESIGN
110 Lakewood Rd. Lebanon, Tn. 37087
v:615.444.6207 f:615.444.0853

SEALED BY

MARK D. KAWCZYNSKI REGISTERED ENGINEER NO. 103452 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 05 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIDEWALK PLAN

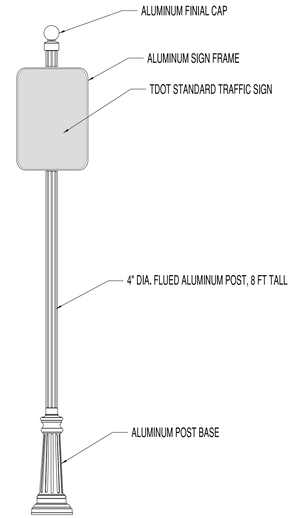
SCALE: 1"= 30'

Printed:
Drawing File Name:

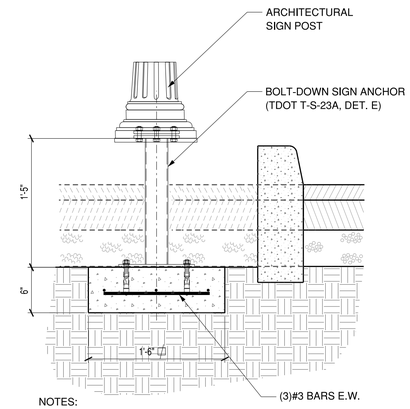
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	12A

NOTE:

1. ARCHITECTURAL SIGN POLE ASSEMBLY TO INCLUDE POLE,BASE, FINIAL AND TRAFFIC SIGN FRAME TO BE SUPPLIED BY SPECIAL LITE PRODUCTS COMPANY, LOYALHANNA, PA OR APPROVED EQUAL.
2. ALL COSTS OF THE ARCHITECTURAL TRAFFIC SIGN POST ASSEMBLY TO BE INCLUDED IN PRICE BID ITEM NUMBER 713-20.02.
3. CITY OF LEBANON TO SELECT FINAL POST BASE AND FINIAL CAP FROM MANUFACTURE STANDARD SELECTIONS.
4. CITY OF LEBANON TO SELECT FINAL COLOR AND FINISH FROM MANUFACTURE STANDARD SELECTIONS.
5. MANUFACTURE TO COORDINATE BASE CONNECTION TO PORPOSED TRAFFIC SIGN BASE TO INSURE "BREAKAWAY" POLE DESIGN INTENT OF PROPOSED DETAILS.
6. IF THE PROPOSED SIGN FRAME DOES NOT COVER THE BACK OF THE TDOT STANDARD TRAFFIC SIGNS, THE BACK OF THE TRAFFIC SIGNS SHALL BE PAINTED TO MATCH THE SIGN FRAME AND POST ASSEMBLY.



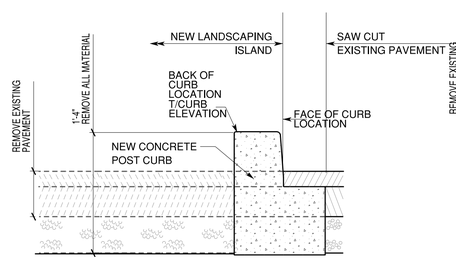
ARCHITECTURAL SIGN POST



NOTES:

1. SEE TDOT STD DWG T-S-23A FOR COMPONENT DETAILS.
2. COORDINATE FINAL "BREAKAWAY" CONNECTION DETAIL WITH ARCHITECTURAL SIGN POST MANUFACTURE TO MEET THE INTENT OF THIS DETAIL.

TRAFFIC SIGN BASE

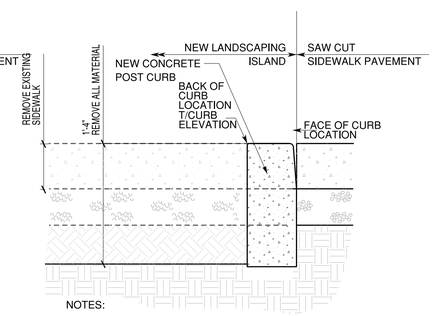


NOTES:

1. CONCRETE CURB TO BE CONSTRUCTED IN ACCORDANCE WITH TDOT STD DWG RP-NMC-10 TYPE "B".
2. THE CONTRACTOR SHALL REMOVE ALL MATERIAL WITHIN THE PROPOSED LANDSCAPING ISLANDS TO THE DEPTH SHOWN ABOVE. THE COST OF THE MATERIAL REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NUMBER 202-03.01.
3. OVER-EXCAVATION BELOW THE DEPTHS SHOWN SHOULD BE LIMTED AND CARFULLY CONTROLLED.
4. BACKFILLING OF THE CURBS SHALL BE BY THE CITY OF LEBANON.
5. CONTRACTOR SHALL COORDINATE BACKFILLING WITH THE CITY OF LEBANON, CAPITAL PROJECT ENGINEER MR. RANDY LAINE, (615)444-3647 EXT 266.

TYPICAL LANSCAPING ISLAND
AT EXISTING PAVEMENT SECTION

NO SCALE

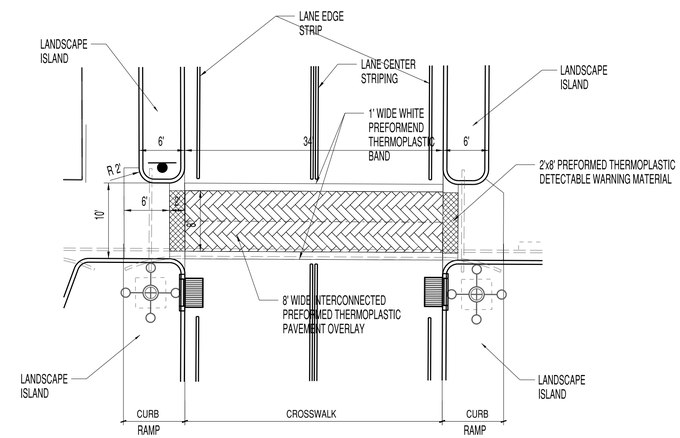


NOTES:

1. CONCRETE CURB TO BE CONSTRUCTED IN ACCORDANCE WITH TDOT STD DWG RP-NMC-10 TYPE "A".
2. THE TOP OF THE NEW CONCRETE CURB SHALL BE LEVEL WITH THE EXISTING OR REPLACED SIDEWALK. PROVIDE A SMOOTH TRANSITION BETWEEN SURFACES.
3. THE CONTRACTOR SHALL REMOVE ALL MATERIAL WITHIN THE PROPOSED LANDSCAPING ISLANDS TO THE DEPTH SHOWN ABOVE. THE COST OF THE MATERIAL REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NUMBER 202-03.
4. OVER-EXCAVATION BELOW THE DEPTHS SHOWN SHOULD BE LIMTED AND CARFULLY CONTROLLED.
5. BACKFILLING OF THE CURBS SHALL BE BY THE CITY OF LEBANON.
6. CONTRACTOR SHALL COORDINATE BACKFILLING WITH THE CITY OF LEBANON, CAPITAL PROJECT ENGINEER MR. RANDY LAINE, (615)444-3647 EXT 266.

TYPICAL LANSCAPING ISLAND
AT EXISTING SIDEWALK SECTION

NO SCALE



NOTES:

1. CURB RAMPS TO BE IN ACCORDANCE WITH TDOT STANDARD DRAWING RP-H-4.
2. SEE SHEET 10A FOR LANE STRIPING.
3. PREFORMED THERMOPLASTIC PAVEMENT OVERLAYS AND BANDING SHALL BE "TRAFFICPATTERNS; HERRINGBONE" BY ENNIS-FLINT, THOMASVILLE NC OR APPROVED EQUAL (PRICE PAY ITEM 716-02.03)

TYPICAL CROSSWALK PAVEMENT MARKING

SCALE: 1"=10'-0"

UNOFFICIAL SET

NOT FOR BIDDING

MANOUS DESIGN
110 Lakewood Rd. Lebanon, Tn. 37087
v:615.444.6207 f:615.444.0853

SEALED BY

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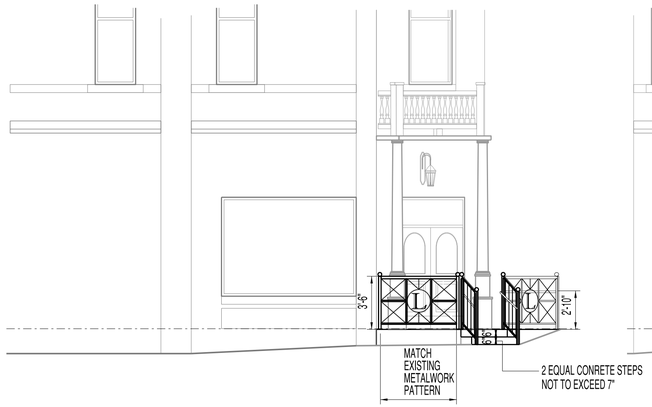
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

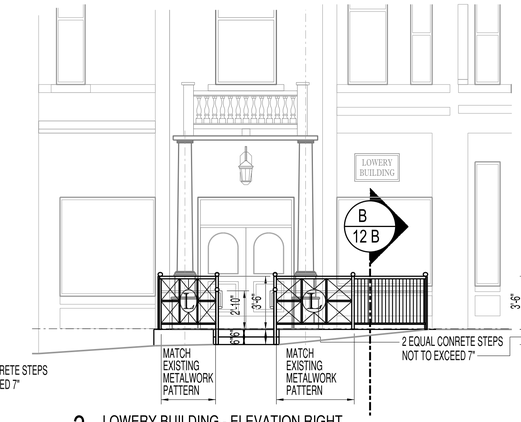
TYPICAL DETAILS

Printed:
Drawing File Name:

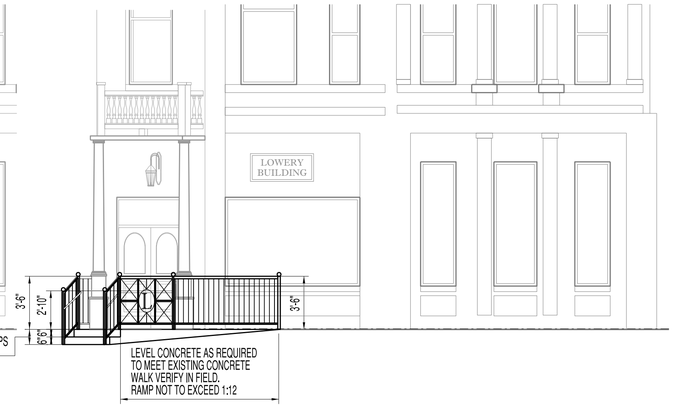
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	12B



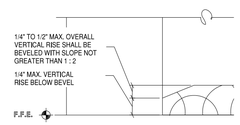
4 LOWERY BUILDING - ELEVATION LEFT



3 LOWERY BUILDING - ELEVATION RIGHT

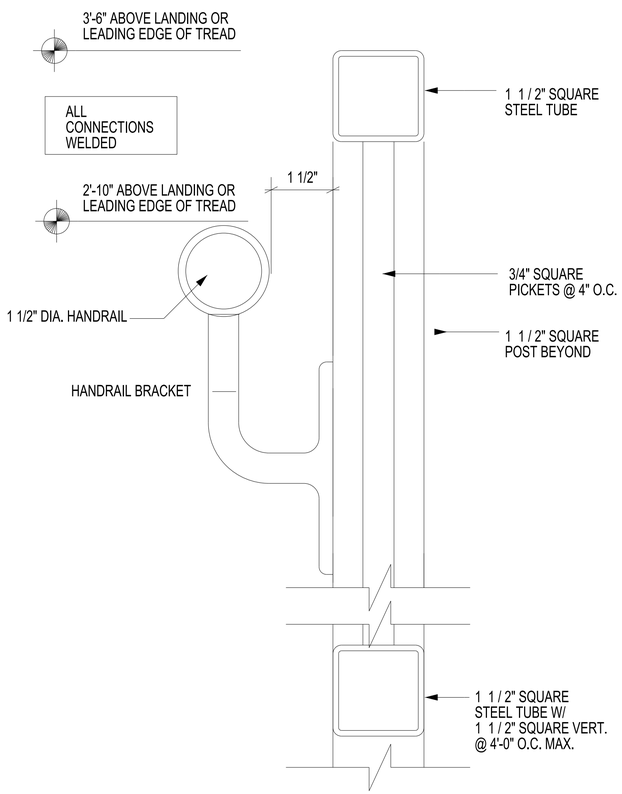


2 LOWERY BUILDING - ELEVATION RIGHT



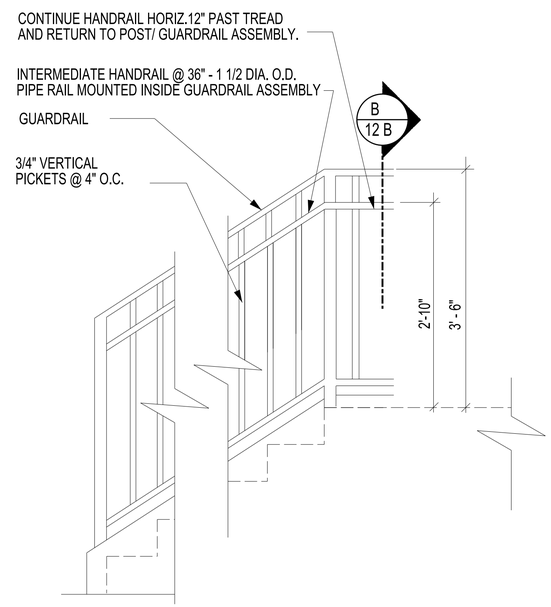
C DETAIL OF ACCESSIBLE THRESHOLD/ CHANGE IN LEVEL MAXIUM HEIGHTS

SCALE: N.T.S.



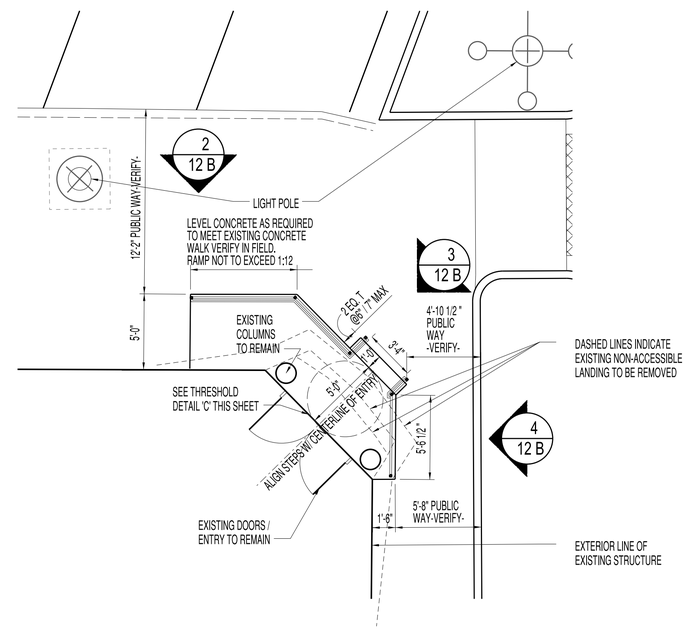
C DETAIL AT HANDRAIL / GUARDRAIL

SCALE: N.T.S.



B DETAIL AT TYPICAL STAIR HANDRAIL / GUARDRAIL

SCALE: N.T.S.



1 ENLARGED ACCESSIBILTY PLAN

SCALE: 1"=5'-0"

UNOFFICIAL SET

NOT FOR BIDDING

MANOUS DESIGN

110 Lakewood Rd. Lebanon, Tn. 37087
v:615.444.6207 f:615.444.0853

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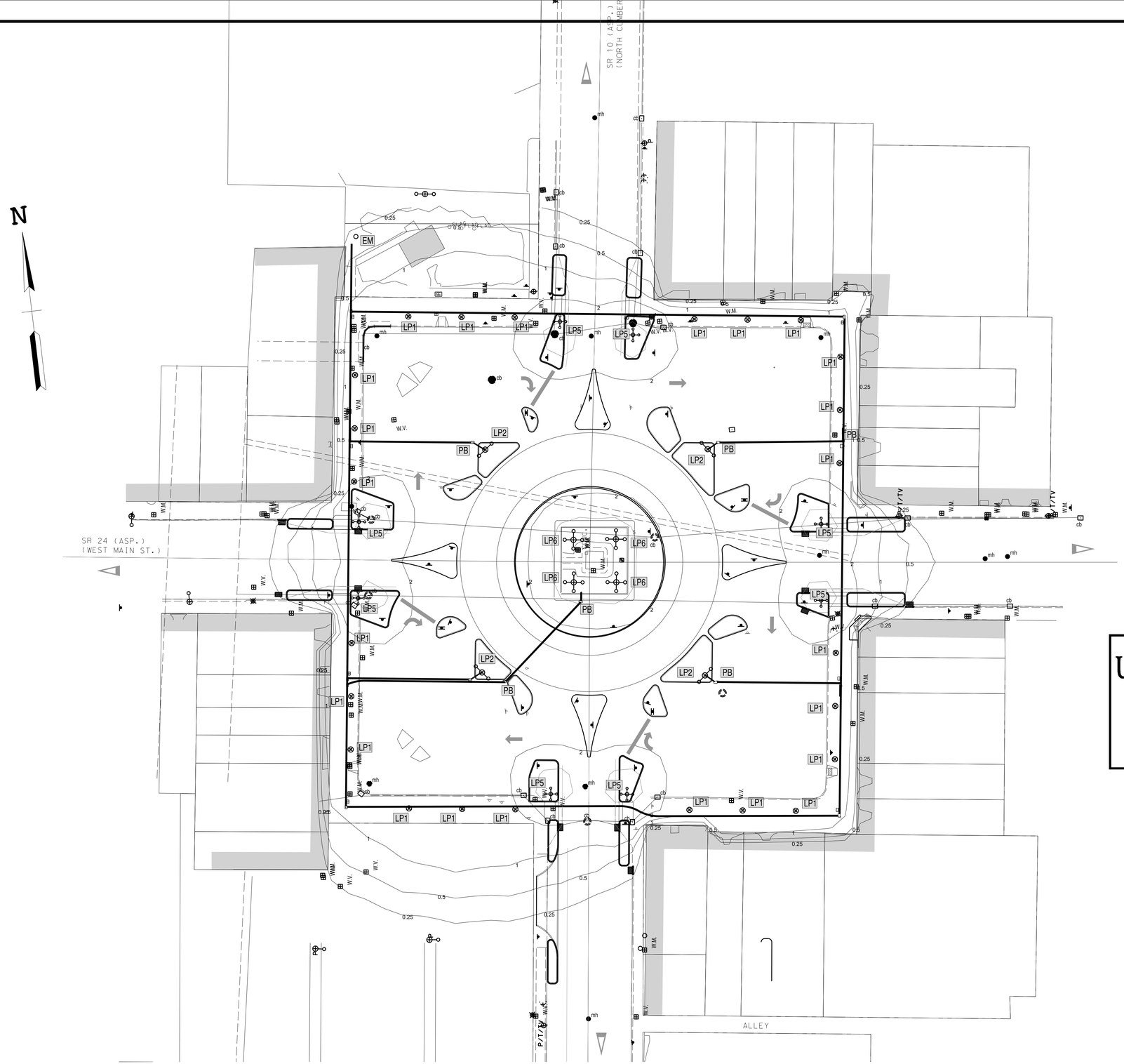
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAILS

Printed:
Drawing File Name:

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	13



Lighting Fixture Schedule

Label	Description	Lamp	Mounting Height (ft)
LP1	Pole Mounted, SYMMETRIC DISTRIBUTION, ACORN Style Clear Globe	(1)-100W CLEAR HPS	16
LP2	Pole Mounted, SYMMETRIC DISTRIBUTION, ACORN Style Clear Globe	(2)-250W Clear HPS	24
LP5	Pole Mounted, 12" White Globe Sphere	(5)-70W CLEAR E-28 METAL HALIDE	10

NOTES:

1. EXISTING LIGHT POLES, LIGHT FIXTURES AND OVERHEAD CONDUCTORS TO BE REMOVED AND DISPOSED OF BY OTHERS.
2. REMOVE AND DISPOSE OF EXISTING LIGHT POLE BASES AND UNDERGROUND CONDUITS AND CONCUCTORS AS REQUIRED. PROPERLY TERMINATE ELECTRICAL INFRASTRUCTURE AT EXISITNG SERVICE POINTS AROUND THE SQUARE.
3. REMOVE AND DISPOSE OF EXISTING CONVENIENCE POWER OUTLETS AROUND THE SQUARE. PROPERLY TERMINATE ELECTRICAL INFRASTRUCTURE ASSOCIATED WITH THE CONVENIENCE POWER OUTLETS AT EXISITNG SERVICE POINTS.
4. LP1 & LP2 POLES, FIXTURES AND CONDUCTORS PROVIDED AND INSTALLED BY MTEMC. PROVIDE POLE BASES AND CONDUITS TO POLE BASES PER POLE BASE DETAILS AND PLAN.
5. LP5 POLES PROVIDED AND INSTALLED BY THE CITY OF LEBANON. PROVIDE POLE BASES, CONDUITS, AND CONDUCTORS TO POLE BASES PER POLE BASE DETAILS AND PLANS.

UNOFFICIAL SET

NOT FOR BIDDING

MANOUS DESIGN
110 Lakewood Rd. Lebanon, Tn. 37087
v:615.444.6207 f:615.444.0853

SEALED BY

MARK D. KAWCZYNSKI
REGISTERED ENGINEER
AGRICULTURE
No. 103452
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

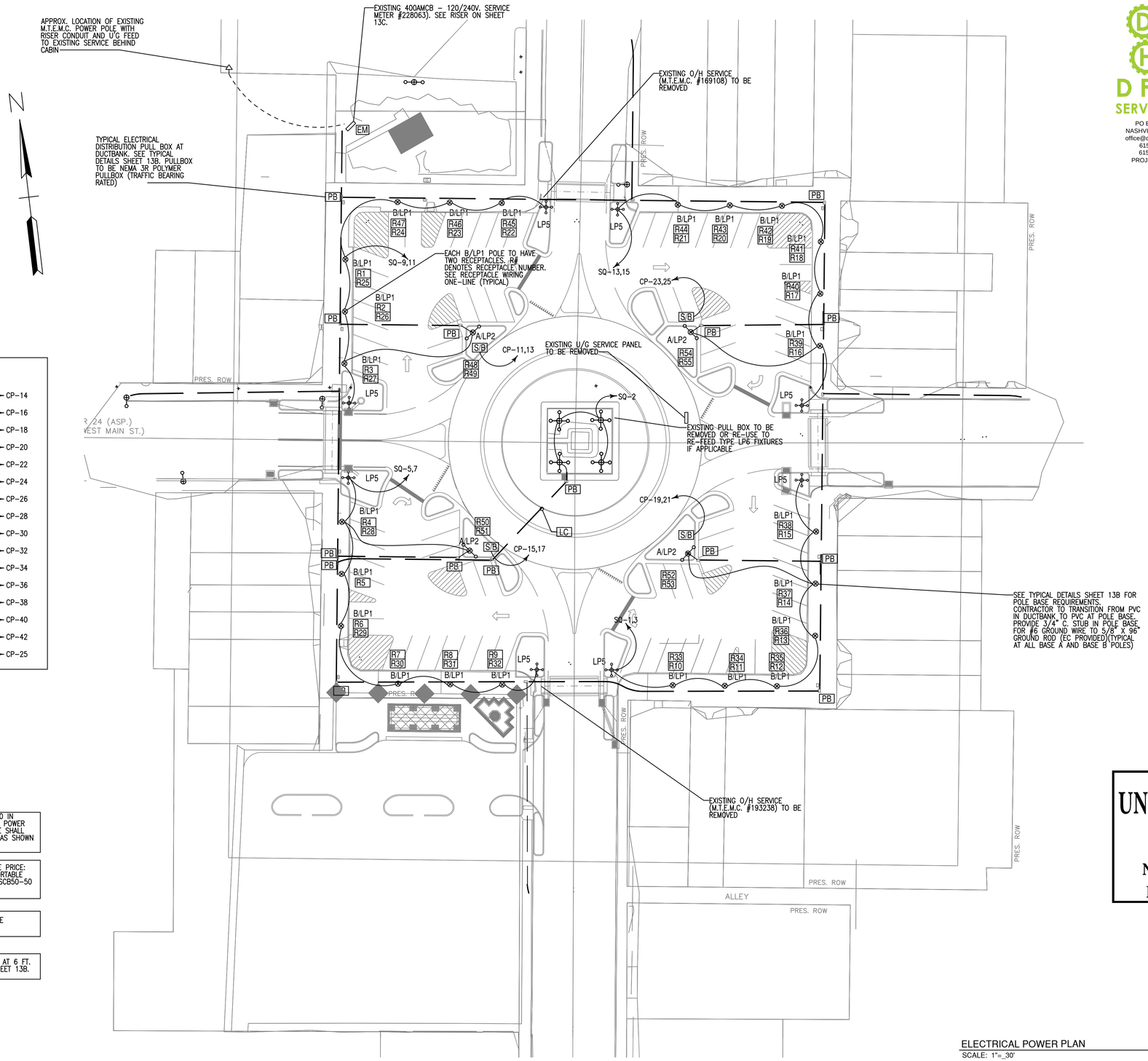
LIGHTING

SCALE: 1"= 30'

Printed:
Drawing File Name:

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	13A

D F + H SERVICES PLLC
PO BOX 120371
NASHVILLE, TN 37212
office@dfhservices.com
615.390.6131
615.796.9096
PROJECT #14.049



RECEPTACLE ONE-LINE

R1	R2	R3				→ CP-14
R22	R23	R24				→ CP-16
R25	R26	R27	R45	R46	R47	→ CP-18
R4	R5	R6				→ CP-20
R7	R8	R9				→ CP-22
R27	R28	R29	R30	R31	R32	→ CP-24
R10	R11	R12				→ CP-26
R13	R14	R15				→ CP-28
R33	R34	R35	R36	R37	R38	→ CP-30
R16	R17	R18				→ CP-32
R19	R20	R21				→ CP-34
R39	R40	R41	R42	R43	R44	→ CP-36
R48	R49					→ CP-38
R50	R51					→ CP-40
R52	R53					→ CP-42
R54	R55					→ CP-25

EACH A/LP2 POLE TO HAVE A HUBBELL SR-50 IN WATERPROOF BOX/COVER TO SERVE PORTABLE POWER SPIDER BOX. ADDITIONALLY EACH A/LP2 POLE SHALL HAVE GFI RECEPTACLES AT 6 FT. AND 14 FT. AS SHOWN ON TYPICAL DETAIL SHEET 13B.

CONTRACTOR SHALL PROVIDE AS AN ALTERNATE PRICE: QUANTITY OF FOUR (4) HUBBELL SPIDER II PORTABLE POWER BOXES #SBSB1/50A WITH FOUR (4) #SCB50-50 AMP INPUT/OUTPUT 50 FT. CORD SETS.

ALL LIGHTING AND RECEPTACLE CIRCUITS TO BE #10 AWG FOR VOLTAGE DROP COMPENSATION.

EACH B/LP1 POLE TO HAVE GFI RECEPTACLES AT 6 FT. AND 20 FT. AS SHOWN ON TYPICAL DETAIL SHEET 13B.

Lighting Fixture Schedule

LABEL	DESCRIPTION	LAMP	MOUNTING HEIGHT (FT)
B/LP1	POLE MOUNTED, SYMMETRIC DISTRIBUTION, A CORN STYLE CLEAR GLOBE	(1) - 100W CLEAR HPS	16
A/LP2	POLE MOUNTED, SYMMETRIC DISTRIBUTION, A CORN STYLE CLEAR GLOBE	(2) - 250W CLEAR HPS	24
LP5	POLE MOUNTED, 12" WHITE GLOBE SPHERE	(5) - 70W CLEAR E-28 METAL HALIDE	24
LP6	EXISTING 5 GLOBE POLE	RE-LAMP PER ARCHITECT DIRECTION	24

B/LP1, A/LP2, AND LP5 ARE CIRCUITED AS 208/1. ADJUST CIRCUITS AS REQUIRED IF POLES ARE ORDERED 120V.

SEVERAL POLES THAT EXIST ON THE SQUARE ARE OWNED BY M.T.E.M.C. AND WILL BE REMOVED BY M.E.M.C. ALL OVEREHEAD LINES BETWEEN THE EXISTING POLES WILL ALSO BE REMOVED.

SEE RECEPTACLE WIRING ONE-LINE FOR CIRCUIT NUMBERS ON RECEPTACLES.

SEE TYPICAL DETAILS SHEET 13B FOR FOUR (4) X 2"C LOOP FOR ELECTRICAL CIRCUITS

LEGEND:

= UNDERPAVEMENT DUCT BANK WITH PVC CONDUIT FOR ELECTRICAL – SEE ARCHITECTURAL TYPICAL DETAILS SHEET AND PROVIDE CONDUIT SIZES AS NOTED.

S/B = SPIDER BOX CIRCUIT DESIGNATION FOR A/LP2 POLE.

R# = POLE RECEPTACLE NUMBER

MANOUS DESIGN
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v:615.444.6207 f:615.444.0853

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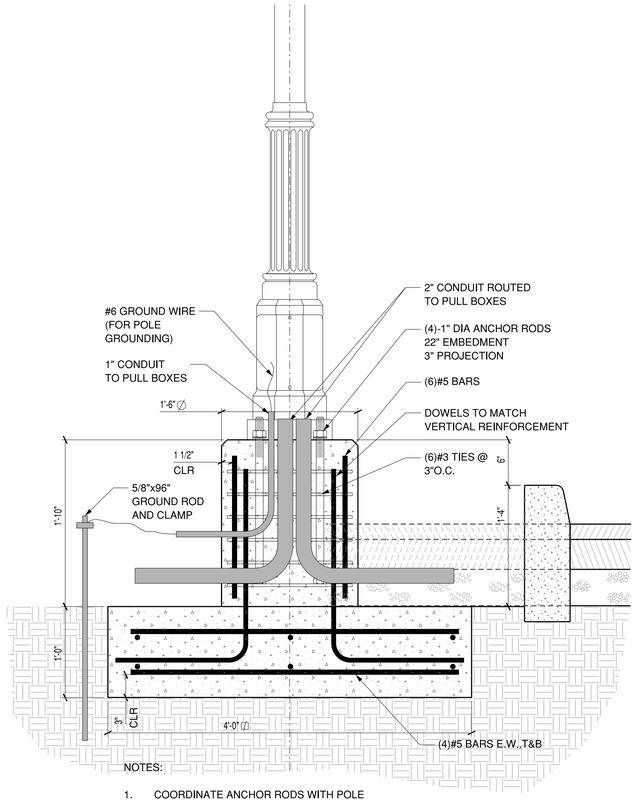
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRICAL POWER PLAN

SCALE: 1"=_30'

ELECTRICAL POWER PLAN
SCALE: 1"=_30'

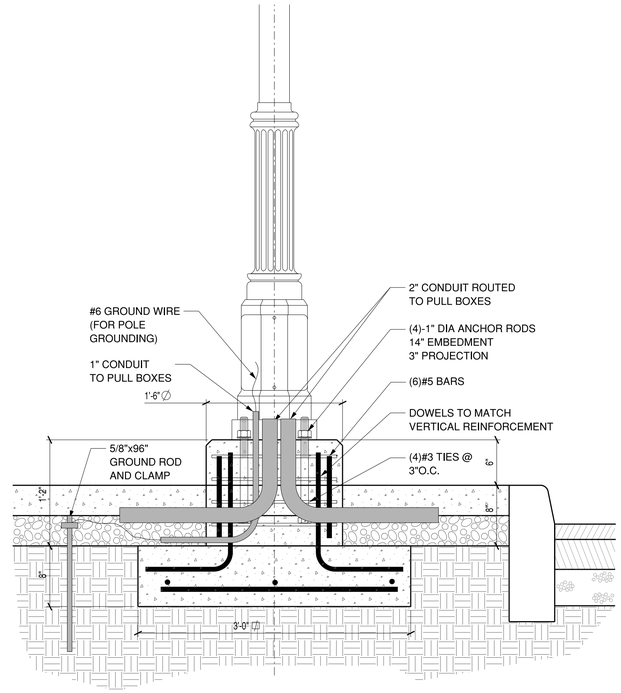
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	13B



NOTES:

1. COORDINATE ANCHOR RODS WITH POLE MANUFACTURER'S BASE BOLT PATTERN.

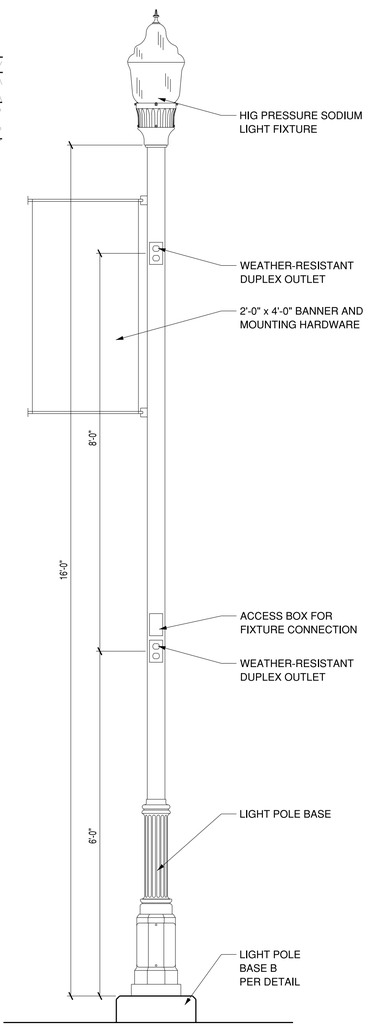
LIGHT POLE BASE A



NOTES:

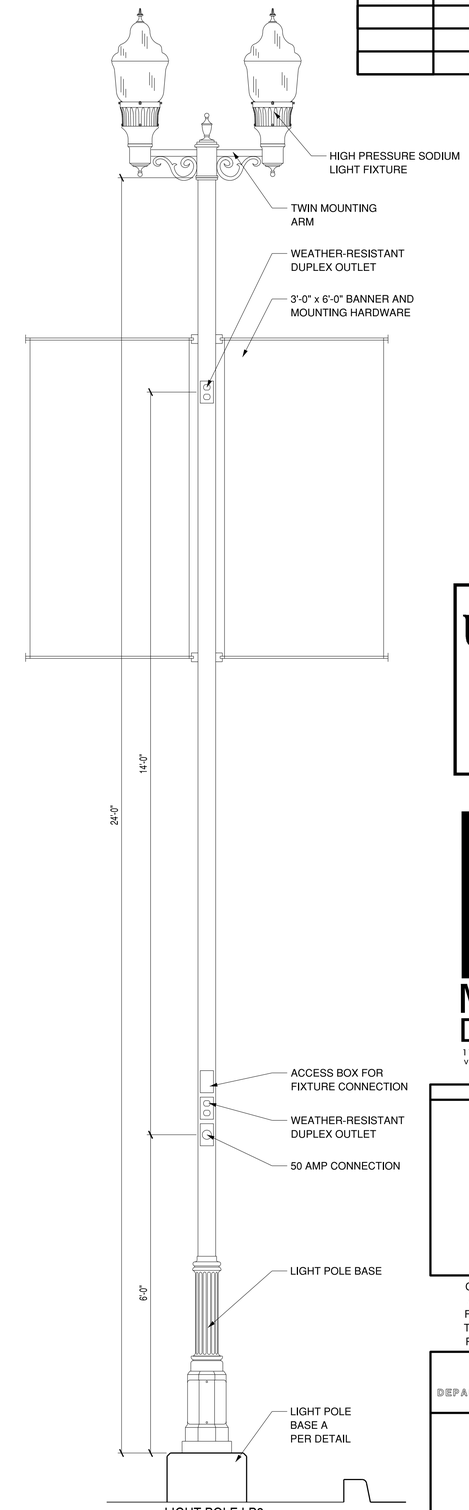
1. COORDINATE ANCHOR RODS WITH POLE MANUFACTURER'S BASE BOLT PATTERN.

LIGHT POLE BASE B



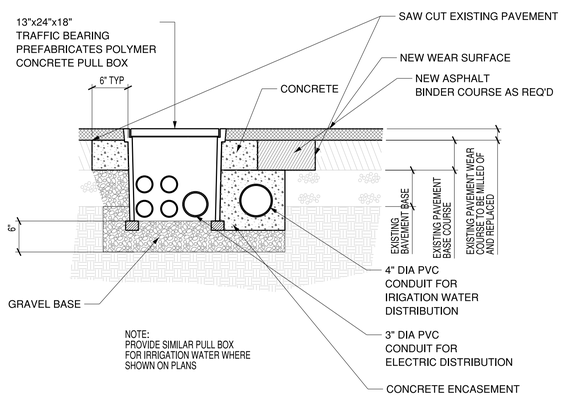
LIGHT POLE LP1

PROVIDED AND INSTALLED BY MIDDLE TENNESSEE ELECTRIC (MTEMC)



LIGHT POLE LP2

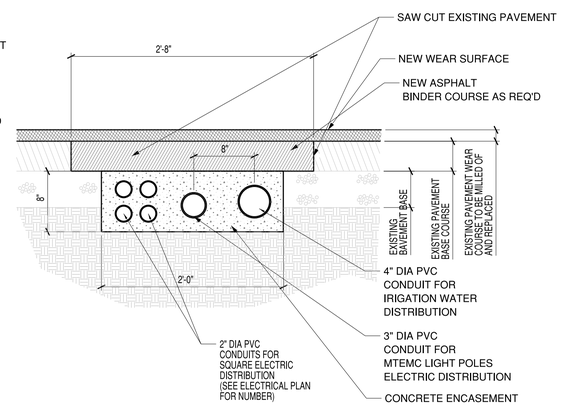
PROVIDED AND INSTALLED BY MIDDLE TENNESSEE ELECTRIC (MTEMC)



NOTE:
PROVIDE SIMILAR PULL BOX FOR IRRIGATION WATER WHERE SHOWN ON PLANS

TYPICAL ELECTRIC DISTRIBUTION PULL BOX ON DUCK BANK

NO SCALE



TYPICAL UNDER PAVEMENT ELECTRIC AND IRRIGATION DUCT BANK

NO SCALE

UNOFFICIAL SET

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110 Lakewood Rd. Lebanon, Tn. 37087
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAILS

SCALE: AS NOTED

Printed:
Drawing File Name:

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	13C

D F + H SERVICES PLLC
PO BOX 120371
NASHVILLE, TN 37212
office@dfhservices.com
615.390.6131
615.796.9096
PROJECT #14.049

Panel	PANEL CP (EXISTING)				**OC Type**		CKT BRKR					**Voltage L-L**			240
Device	MOLDED CASE				**Enclosure**		NEMA 3R					**Voltage L-N**			120
Mounting	SURFACE/UNISTRUT				**Comments**		M.C.B.(EXISTING)					**Amperage**			400
Ckt No.	**Description**	**Type**	**Load**	**Remarks**	**CB**	**Pole**	**PH**	**PH**	**Pole**	**CB**	**Remarks**	**Load**	**Type**	**Description**	**Ckt No.**
1	QUAD RECEPTACLE	3	360	NOTE 1	20	1	A	A	1	20	NOTE 1	360	3	QUAD RECEPTACLE	2
3	QUAD RECEPTACLE	3	360	NOTE 1	20	1	B	B	1	20	NOTE 1	360	3	QUAD RECEPTACLE	4
5	QUAD RECEPTACLE	3	360	NOTE 1	20	1	A	A	1	20	NOTE 1	360	3	QUAD RECEPTACLE	6
7	QUAD RECEPTACLE	3	360	NOTE 1	20	1	B	B	1	20	NOTE 1	360	3	QUAD RECEPTACLE	8
9	CREEK TIMER	1	1035	NOTE 1	20	1	A	A	1	20	NOTE 1	500	5	MISC LOAD	10
11	N.W. SPIDER BOX	5	4800	NOTE 3	50	2	B	B	1	20	NOTE 1	1000	1	CABIN LIGHTS	12
13	-	5	4800	NOTE 3	-	-	A	A	1	15	NOTE 3	1200	3	N.W. RECEPTS - LOW	14
15	S.W. SPIDERBOX	5	4800	NOTE 3	50	2	B	B	1	15	NOTE 3	1200	3	N.W. RECEPTS - LOW	16
17	-	5	4800	NOTE 3	-	-	A	A	1	15	NOTE 3	1200	3	N.W. RECEPTS - HIGH	18
19	S.E. SPIDERBOX	5	4800	NOTE 3	50	2	B	B	1	15	NOTE 3	1200	3	S.W.RECEPTS LOW	20
21	-	5	4800	NOTE 3	-	-	A	A	1	15	NOTE 3	1200	3	S.W.RECEPTS LOW	22
23	N.E. SPIDERBOX	5	4800	NOTE 3	50	2	B	B	1	15	NOTE 3	1200	3	S.W.RECEPTS HIGH	24
25	-	5	4800	NOTE 3	-	-	A	A	1	15	NOTE 3	1200	3	S.E. RECEPTS LOW	26
27	NE LP2 RECEPTS	3	360	NOTE 3	20	1	B	B	1	15	NOTE 3	1200	3	S.E. RECEPTS LOW	28
29	SPACE	-	-	-	20	1	A	A	1	15	NOTE 3	1200	3	S.E. RECEPTS HIGH	30
31	SPACE	-	-	-	20	1	B	B	1	15	NOTE 3	1200	3	N.E. RECEPTS LOW	32
33	SPACE	-	-	-	20	1	A	A	1	15	NOTE 3	1200	3	N.E. RECEPTS LOW	34
35	SPACE	-	-	-	20	1	B	B	1	15	NOTE 3	1200	3	N.E. RECEPTS HIGH	36
37	SPACE	-	-	-	20	1	A	A	1	15	NOTE 3	1200	3	NW LP2 POLE RECEPTS	38
39	PANEL SQ	10	5640	NOTE 2	100	2	B	B	1	15	NOTE 3	1200	3	SW LP2 POLE RECEPTS	40
41	—	10	4140	-	-	-	A	A	1	15	NOTE 3	1200	3	SE LP2 POLE RECEPTS	42

Phase A	35915 VA		
Phase B	36040 VA		
Total kVa=	72.0	Demand kVa	63.2
Total Amps	299.8	Demand Amps	263.5

NOTES:
1. EXISTING TO REMAIN CIRCUIT
2. NEW CB TO FEED NEW PANEL SQ
3. PROVIDE NEW CB IN EXISTING PANEL

A.I.C. RATING: 10,000

Panel	SQ				**OC Type**		CKT BRKR					**Voltage L-L**			240
Device	MOLDED CASE				**Enclosure**		NEMA 3R					**Voltage L-N**			120
Mounting	SURFACE/UNISTRUT				**Comments**		MLO					**Amperage**			100
Ckt No.	**Description**	**Type**	**Load**	**Remarks**	**CB**	**Pole**	**PH**	**PH**	**Pole**	**CB**	**Remarks**	**Load**	**Type**	**Description**	**Ckt No.**
1	S.E. LIGHTING	1	1035	NOTE 1	20	2	A	A	1	20	NOTE 1	1500	1	LP8- CENTER SQ LTS	2
3	-	1	1035	-	-	-	B	B	1	20				SPARE	4
5	S.W. LIGHTING	1	1035	NOTE 1	20	2	A	A	1	20				SPARE	6
7	-	1	1035	-	-	-	B	B	1	20				SPARE	8
9	N.W. LIGHTING	1	1035	NOTE 1	20	2	A	A	1	20				SPARE	10
11	-	1	1035	-	-	-	B	B	1	20				SPARE	12
13	N.E. LIGHTING	1	1035	NOTE 1	20	2	A	A	1	20				SPARE	14
15	-	1	1035	-	-	-	B	B	1	20				SPARE	16
17	SPARE			-	20	2	A	A	1	20				SPARE	18
19	—				-	-	B	B	1	20				SPARE	20
xxx					X	X	X	X	X	X					xxx
xxx					X	X	X	X	X	X					xxx
xxx					X	X	X	X	X	X					xxx

Phase A	5640 VA		
Phase B	4140 VA		
Total kVa=	9.8	Demand kVa	12.2
Total Amps	40.8	Demand Amps	50.9

NOTES: 1. ROUTE THRU LIGHTING CONTACTOR/TIME CLOCK

A.I.C. RATING: 10,000

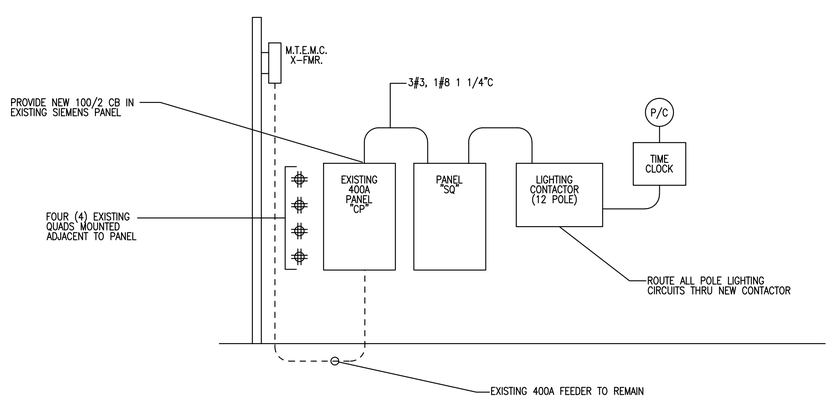
BRANCH CIRCUIT CONDUCTOR SCHEDULE

CONDUCTORS SHALL BE COPPER – ALUMINUM CONDUCTORS MAY ONLY BE USED WITH PRIOR WRITTEN APPROVAL BY ENGINEER OF RECORD. CONDUCTORS / CONDUITS SHALL BE SIZED ACCORDING TO THE FOLLOWING CHART UNLESS OTHERWISE NOTED.

CIRCUIT BREAKER	CU PHASE WIRE (AWG)	AL PHASE WIRE (AWG)	CU GROUND WIRE (AWG)	AL GROUND WIRE (AWG)	CU CONDUIT SIZE	AL CONDUIT SIZE
15	#12	–	#12	–	3/4"	3/4"
20	#12	–	#12	–	3/4"	3/4"
30	#10	–	#10	–	3/4"	3/4"
40	#8	–	#10	–	1"	1"
50	#8	–	#10	–	1"	1"
60	#6	#4	#10	#8	1"	1 1/4"
70	#6	#4	#8	#6	1"	1 1/4"
80	#4	#2	#8	#6	1 1/4"	1 1/4"
90	#4	#2	#8	#6	1 1/4"	1 1/4"
100	#3	#1	#8	#6	1 1/4"	1 1/2"
125	#1	#2/0	#6	#4	1 1/2"	2"
150	#1/0	#3/0	#6	#4	2"	2"
175	#2/0	#4/0	#6	#4	2"	2 1/2"
200	#3/0	#250	#6	#4	2"	2 1/2"
225	#4/0	#300	#4	#2	2 1/2"	3"
250	#250	#400	#4	#2	3"	3"
400	#500	#750	#3	#1	3 1/2"	4"
500	(2)#250	(2)#350	#2	#1/0	3"	3"

NOTES:

1. NEUTRAL CONDUCTOR (IF REQUIRED) SHALL BE THE SAME SIZE AS PHASE CONDUCTORS.
2. ALL LIGHTING CIRCUITS SHALL UTILIZE #10 AWG WIRE FOR VOLTAGE DROPS.
3. ALL HVAC OR OTHER CYCLICAL EQUIPMENT SHALL UTILIZE HACR TYPE CIRCUIT BREAKERS.
4. CONTRACTOR TO PROVIDE QUANTITY OF CONDUCTORS AS NECESSARY TO POWER LOADS.
5. CONDUIT SIZES BASES ON FOUR CONDUCTORS MAXIMUM. CONTRACTOR SHALL FOLLOW NEC GUIDELINES FOR DERATING AMPACITIES AND CONDUIT SIZES FOR ALL COMBINED CIRCUITS/HOMERUNS.
6. FOR ANY SIZE BREAKER NOT SHOWN ABOVE (EXAMPLE 25), USE THE CONDUIT AND WIRE SIZES FOR THE NEXT HIGHEST BREAKER INDICATED (EXAMPLE 30).



ELECTRICAL RISER DIAGRAM
SCALE: NONE

UNOFFICIAL SET
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MANOUS DESIGN
110 Lakewood RdLebanon, Tn. 37087
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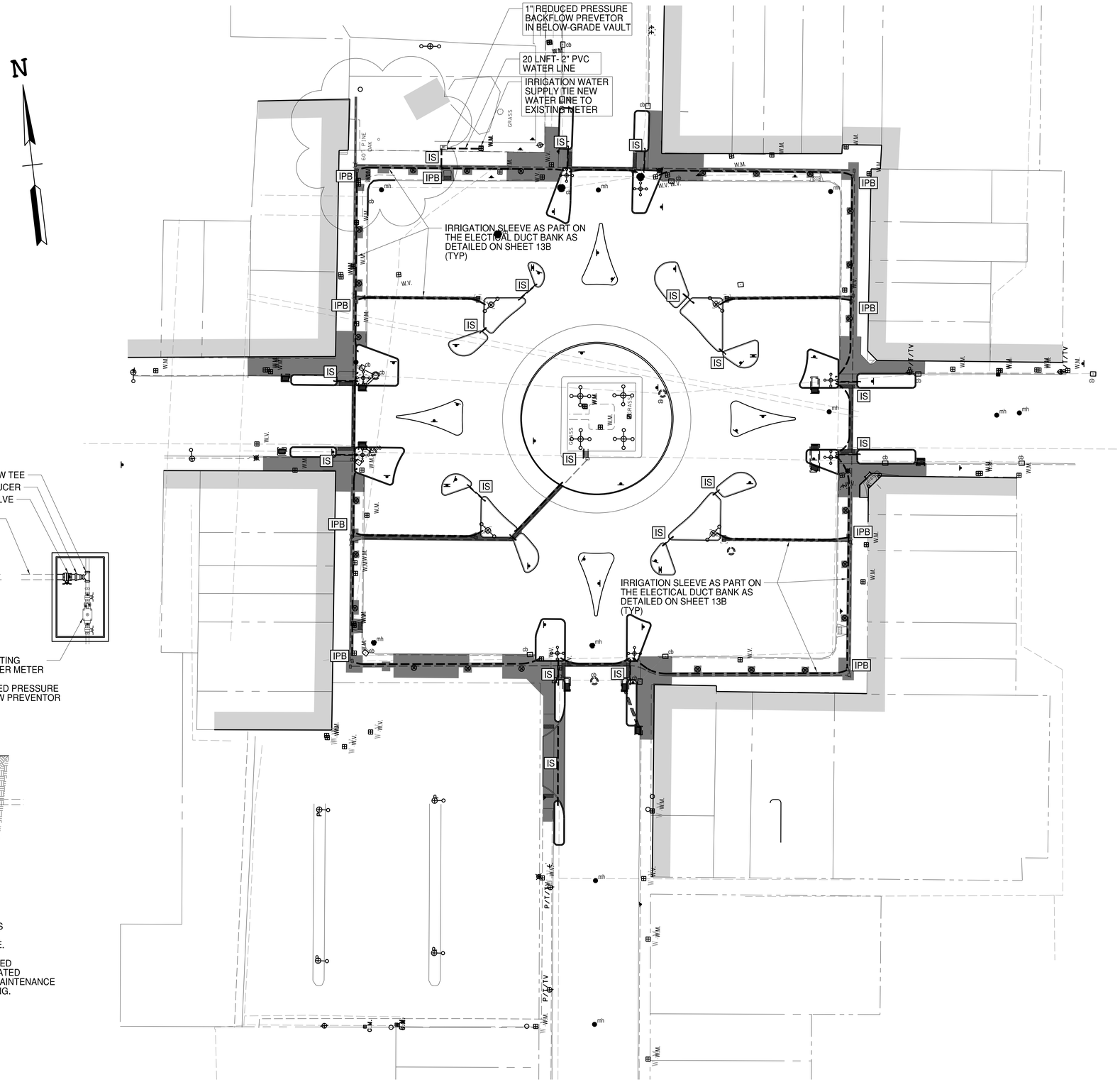
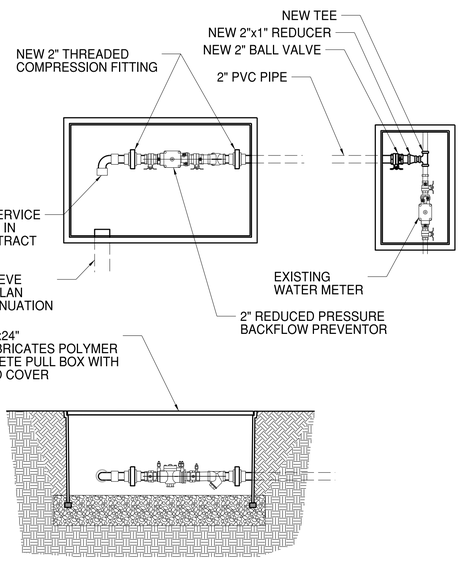
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SCHEDULES & RISERS

SCALE: NONE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	14





NOTES:

1. REWORK EXISTING WATER METER ASSEMBLY AS REQUIRED TO INSTALL NEW IRRIGATION WATER CONNECTION.
2. PROVIDE NECESSARY FITTINGS AND VALVES SO THATTHE BACKFLOW PREVENTER CAN BE REMOVED DURING PERIODS OF NON-USE.
3. THE SIZE OF THE VAULT BOX MAYBE REDUCED IF A SMALLER SIZE BOX CAN BE DEMONSTRATED TO BE ACCEPTABLE FOR OPERATION AND MAINTENANCE OF THE BACKFLOW PREVENTER AND VALVING.

IRRIGATION WATER SERVICE

NO SCALE

IS IRRIGATION SLEEVE- 4" PVC PIPE TERMINATED IN PLANTING BED AT BOTH ENDS OF THE SLAB. PROVIDE TEMPERARY CAP ON ENDS.

IPB IRRIGATION PULL BOX- 13"x24"x18" PREFABRICATES POLYMER CONCRETE PULL BOX

NOTES:

1. IRRIGATION SYSTEM FROM THE PROPOSED BACKFLOW PREVENTER TO THE LANDSCAPING ISLANDS BY THE CITY OF LEBANON.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM WITH THE CITY OF LEBANON CAPITAL PROJECTS ENGINEER, MR. RANDY LAINE, (615)444-3647, EXT 266.

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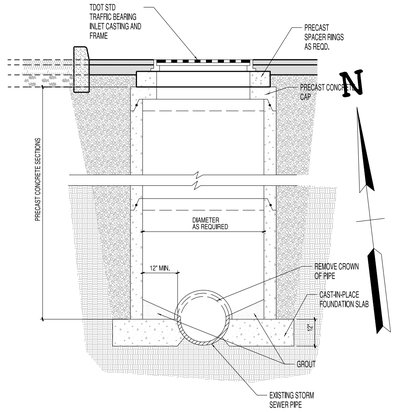
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

IRRIGATION PLAN

SCALE: 1"= 30'

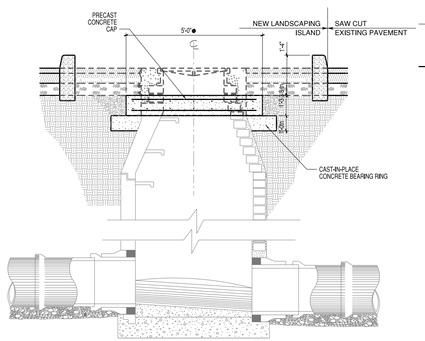
Printed:
Drawing File Name:

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP-SIP-EN-10(47)	15



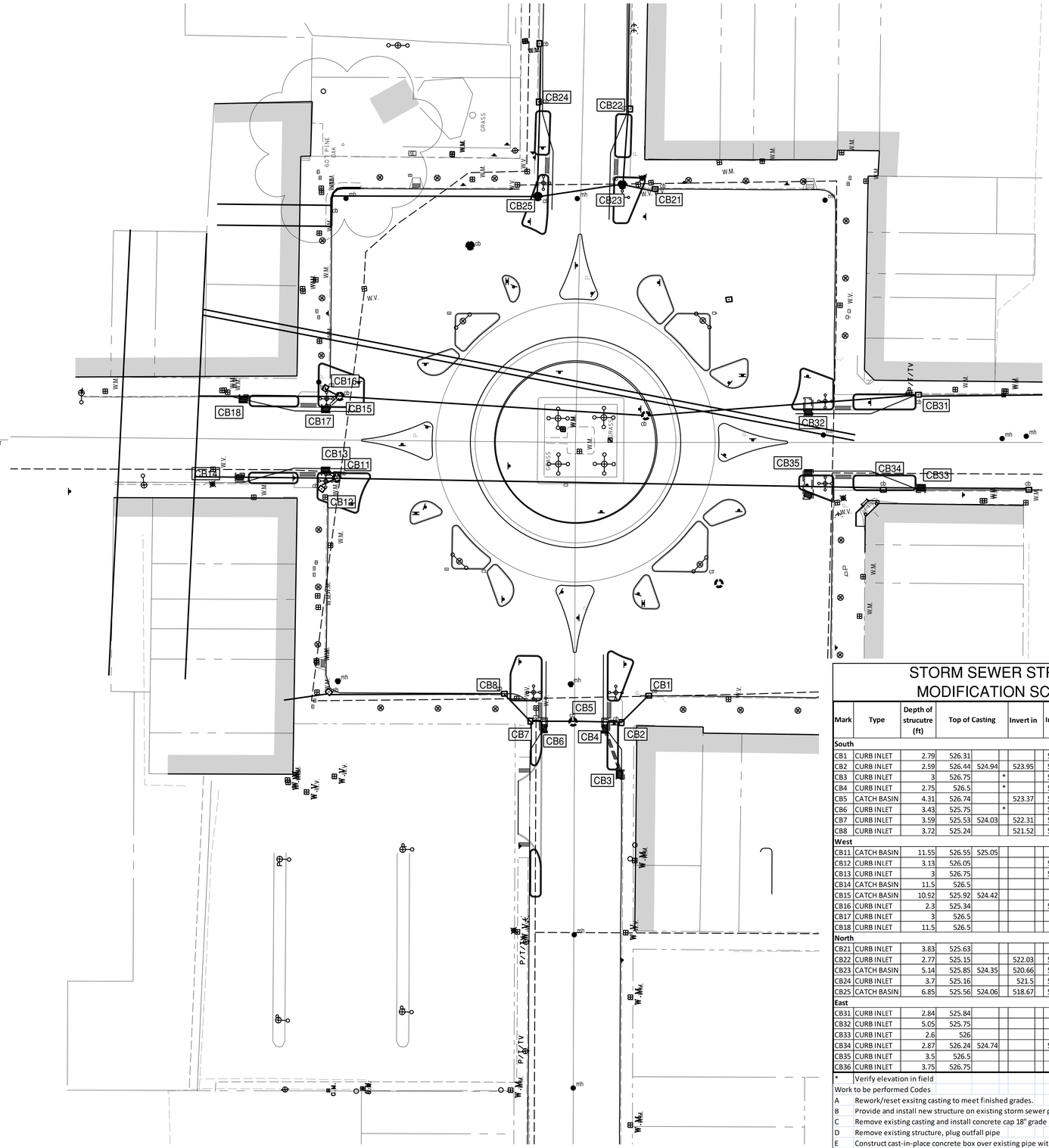
TYPICAL TYPE "B" SADDLE CATCH BASIN

NO SCALE



TYPICAL "C" TYPE CATCH BASIN

NO SCALE



UNOFFICIAL SET

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PIPE SCHEDULE

Pipe	From	To	Inv In	Inv Out	Length (ft)	Slope (ft/ft)	Dia(in)	Material
1	CB3	CB4	524.25	523.85	22	0.018	15	RCP
10	CB13	CB11	523.75	523.40	7	0.05	15	RCP
11	CB17	CB15	523.5	523.05	9	0.05	15	RCP

STORM SEWER STRUCTURE MODIFICATION SCHEDULE

Mark	Type	Depth of strucutre (ft)	Top of Casting		Invert in		Invert out		Post-Construction Disposition	Work Code	Structure Type	TDOT Inlet Type
South												
CB1	CURB INLET	2.79	526.31				523.52		TO REMAIN	A		
CB2	CURB INLET	2.59	526.44	524.94		523.95	523.85		CAPPED	C	C	
CB3	CURB INLET	3	526.75		*		523.75		NEW	F	TDOT-D-CB-42S	D-CBB-42
CB4	CURB INLET	2.75	526.5		*		523.75		NEW	E	E	D-CBB-12A
CB5	CATCH BASIN	4.31	526.74			523.37	522.43		TO REMAIN	A		
CB6	CURB INLET	3.43	525.75		*		522.32		NEW	E	E	D-CBB-12A
CB7	CURB INLET	3.59	525.53	524.03		522.31	521.94		CAPPED	C	C	
CB8	CURB INLET	3.72	525.24			521.52	521.52		TO REMAIN	A		
West												
CB11	CATCH BASIN	11.55	526.55	525.05			515	*	CAPPED	C	C	
CB12	CURB INLET	3.13	526.05				522.92		REMOVED	D		
CB13	CURB INLET	3	526.75				523.75		NEW	F	TDOT-D-CB-42S	D-CBB-12A
CB14	CATCH BASIN	11.5	526.5				515	*	NEW	E	B	D-CBB-42
CB15	CATCH BASIN	10.92	525.92	524.42			515	*	CAPPED	C	C	
CB16	CURB INLET	2.3	525.34				523.04		REMOVED	D		
CB17	CURB INLET	3	526.5				523.5		NEW	F	TDOT-D-CB-42S	D-CBB-12A
CB18	CURB INLET	11.5	526.5				515	*	NEW	E	B	D-CBB-42
North												
CB21	CURB INLET	3.83	525.63				521.8		TO REMAIN	A		
CB22	CURB INLET	2.77	525.15			522.03	522.38		TO REMAIN	A		
CB23	CATCH BASIN	5.14	525.85	524.35		520.66	520.71		CAPPED	C		
CB24	CURB INLET	3.7	525.16			521.5	521.46		TO REMAIN	A		
CB25	CATCH BASIN	6.85	525.56	524.06		518.67	518.71		CAPPED	C		
East												
CB31	CURB INLET	2.84	525.84				523		TO REMAIN	A		
CB32	CURB INLET	5.05	525.75				520.7	*	NEW	E	E	D-CBB-12A
CB33	CURB INLET	2.6	526				523.4	*	NEW	E	E	D-CBB-12A
CB34	CURB INLET	2.87	526.24	524.74			523.37		CAPPED	C		
CB35	CURB INLET	3.5	526.5				523	*	NEW	E	E	D-CBB-12A
CB36	CURB INLET	3.75	526.75				523	*	NEW	E	E	D-CBB-12A

* Verify elevation in field

Work to be performed Codes

A	Rework/reset exsitng casting to meet finished grades.
B	Provide and install new structure on existing storm sewer pipe
C	Remove existing casting and install concrete cap 18" grade below finished grade
D	Remove existing structure, plug outfall pipe
E	Construct cast-in-place concrete box over existing pipe with offset inlet
F	Provide and install new structure, connect to exisitng structure with new pipe

MANOUS DESIGN
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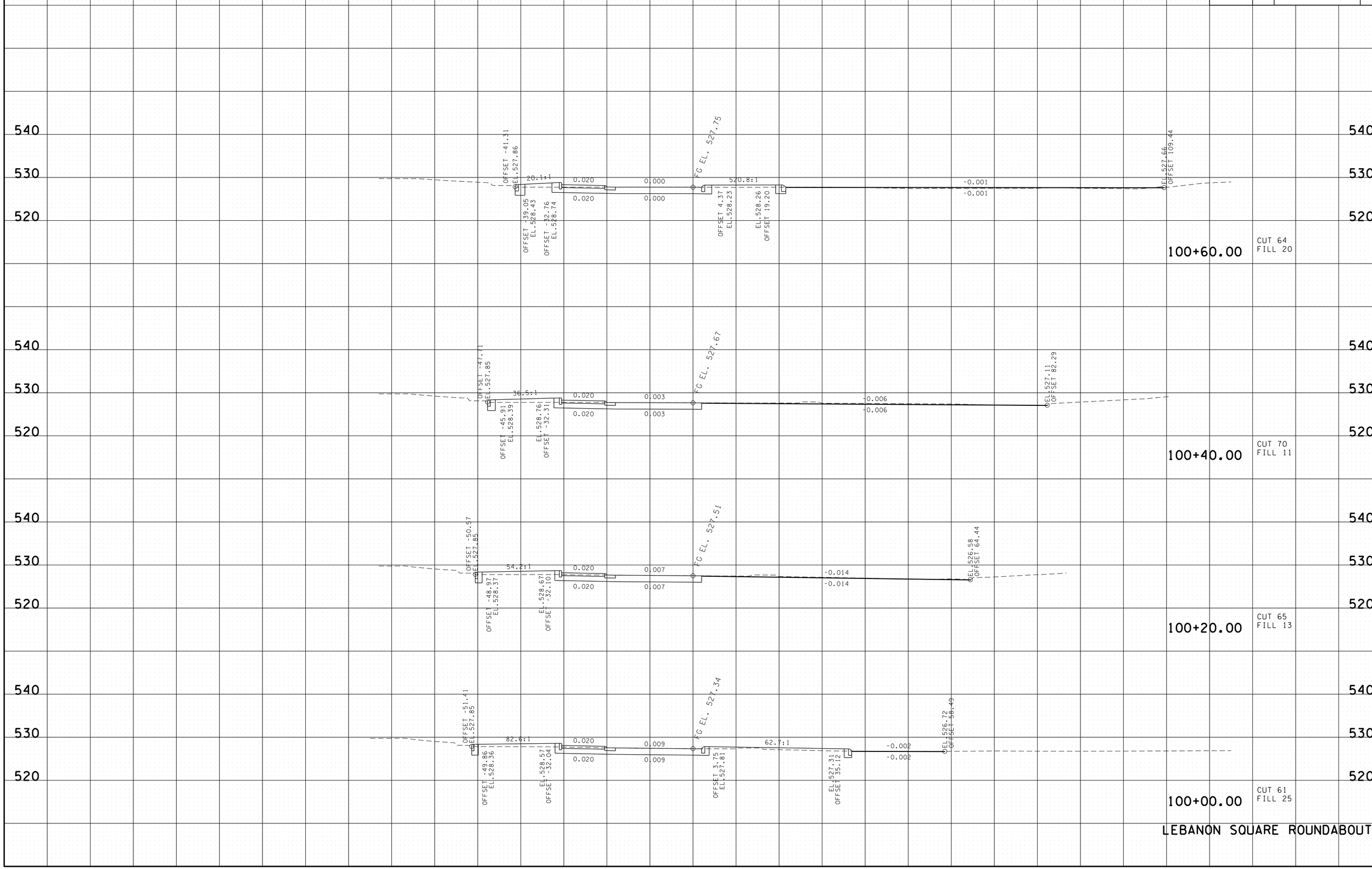
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORM SEWER

SCALE: 1"= 30'

Printed:
Drawing File Name:

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	16



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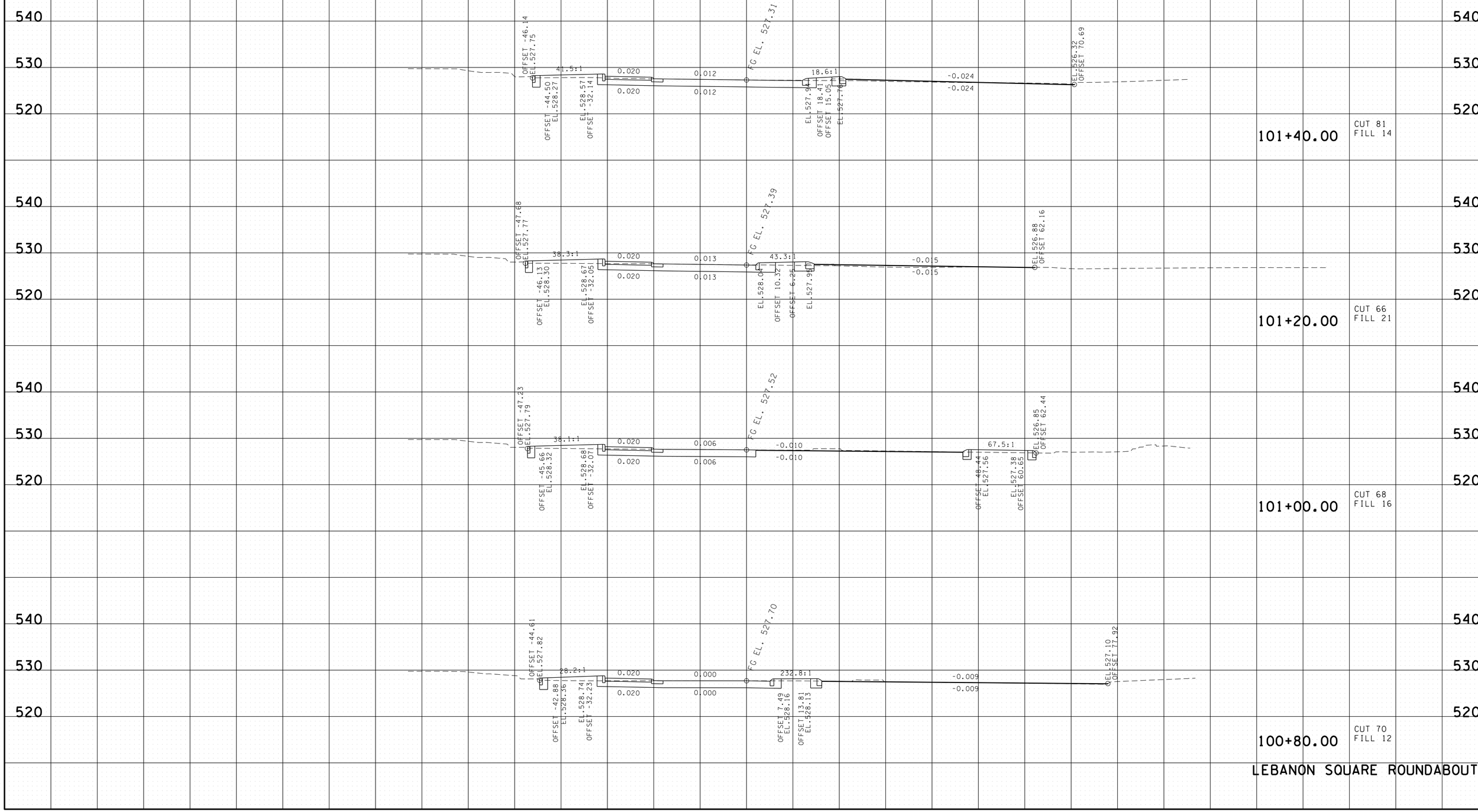
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	17



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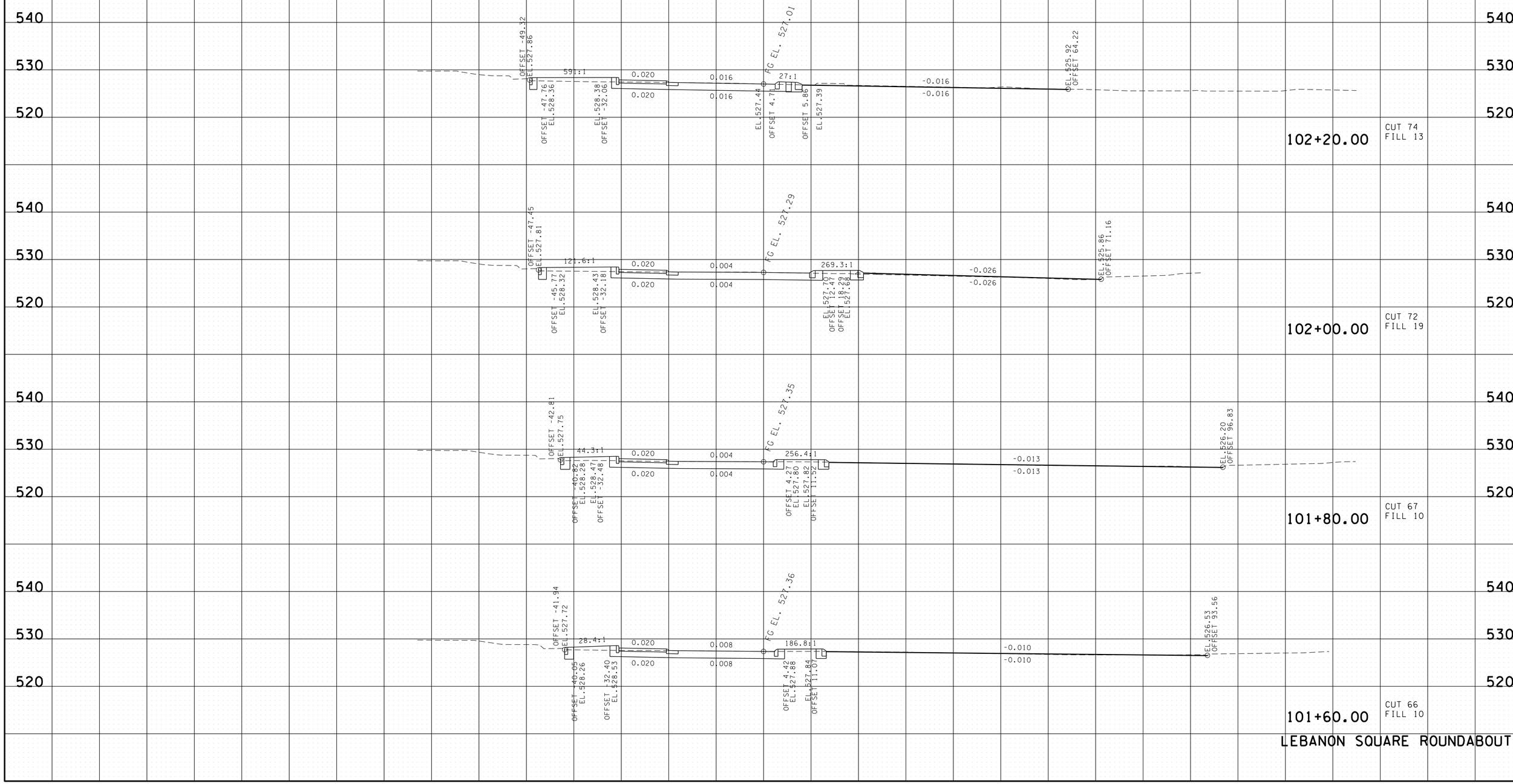
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	18



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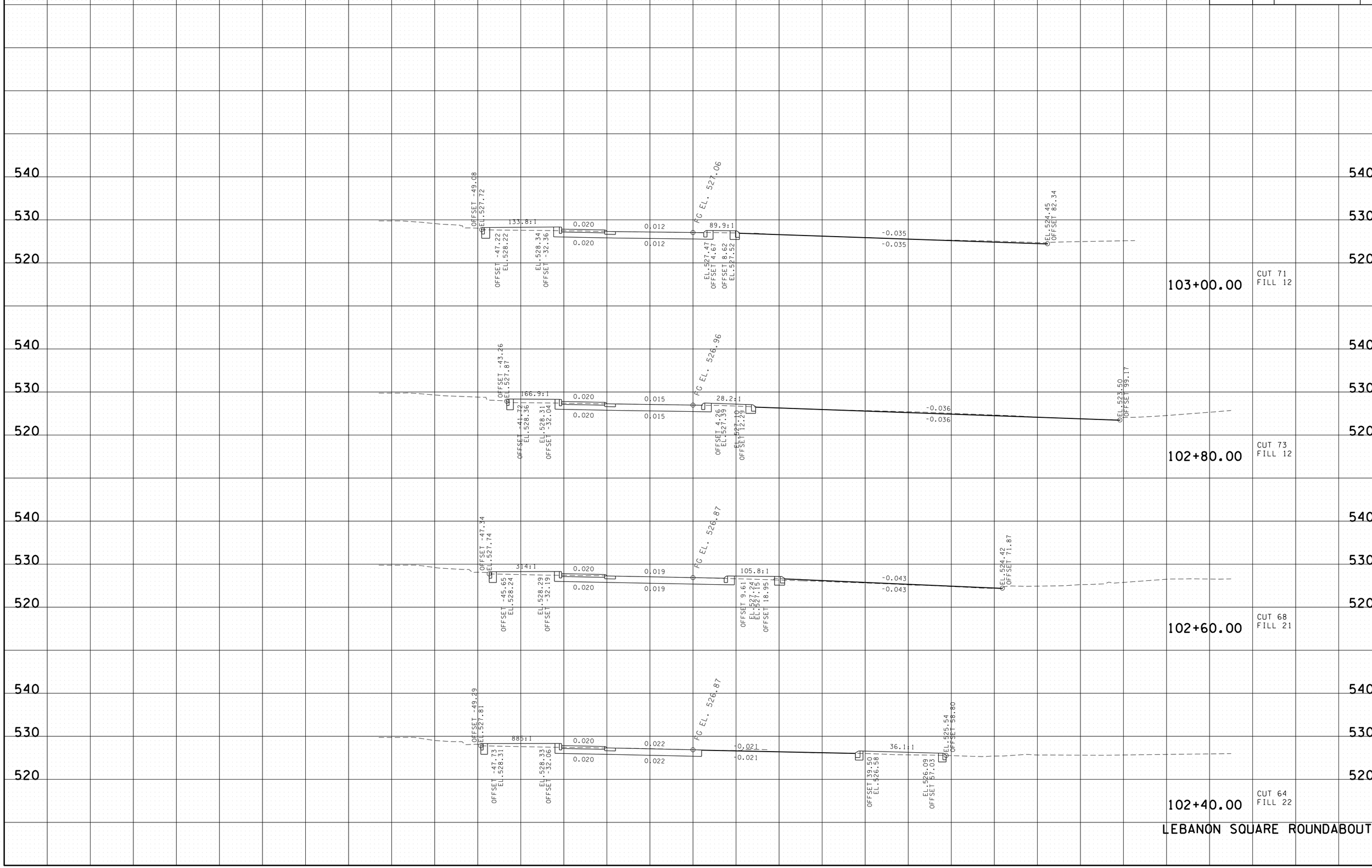
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	19



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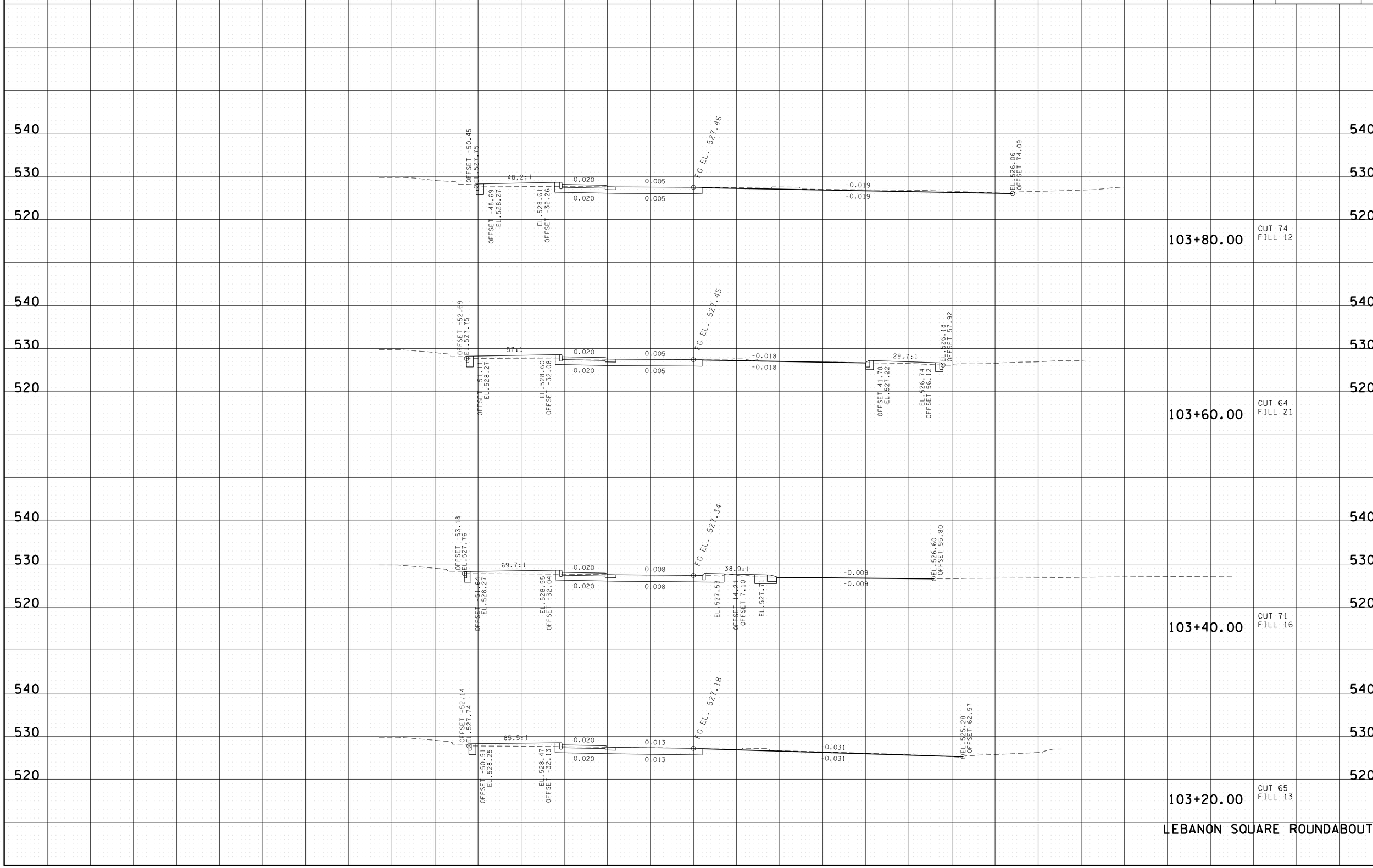
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	20



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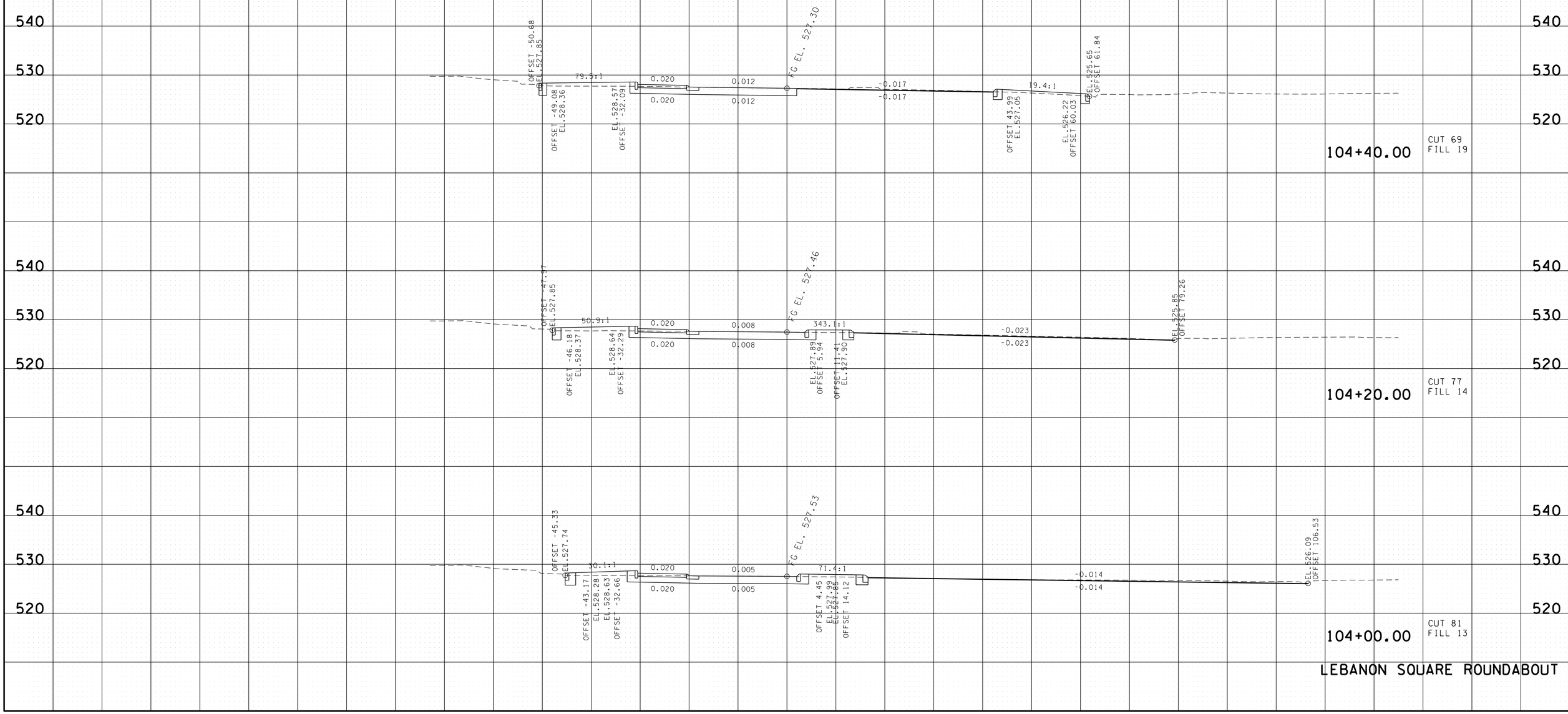
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	21



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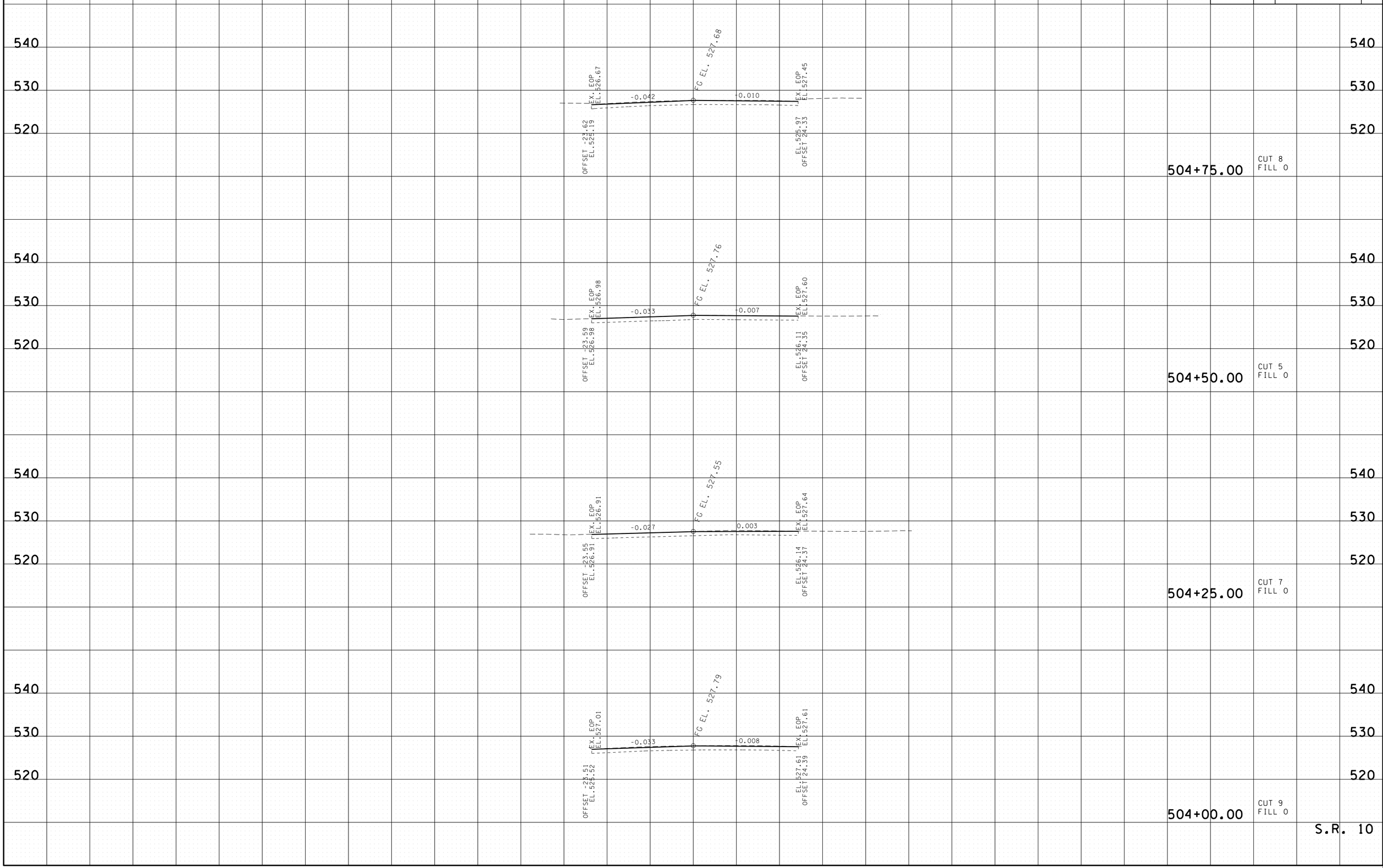
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	22



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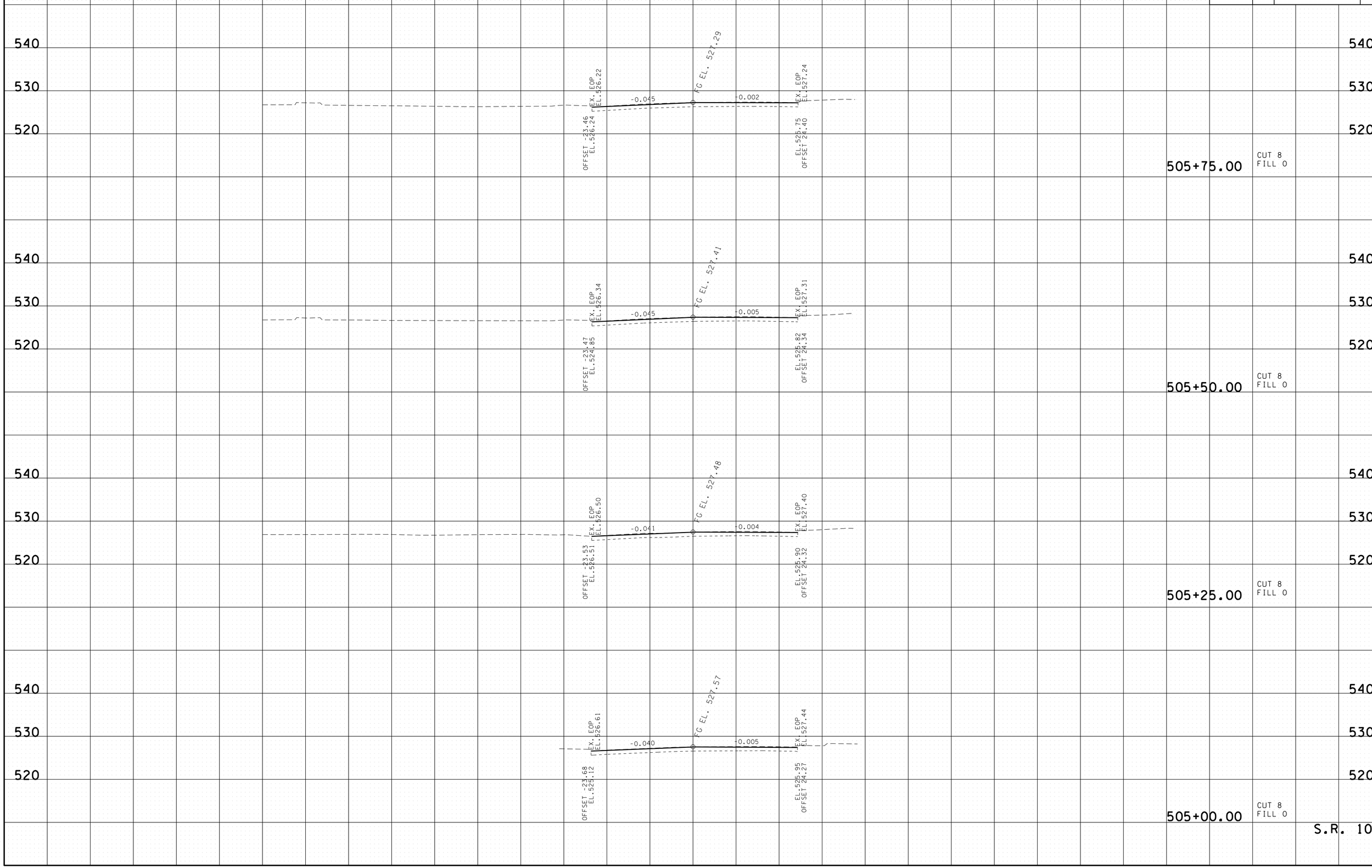
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	23



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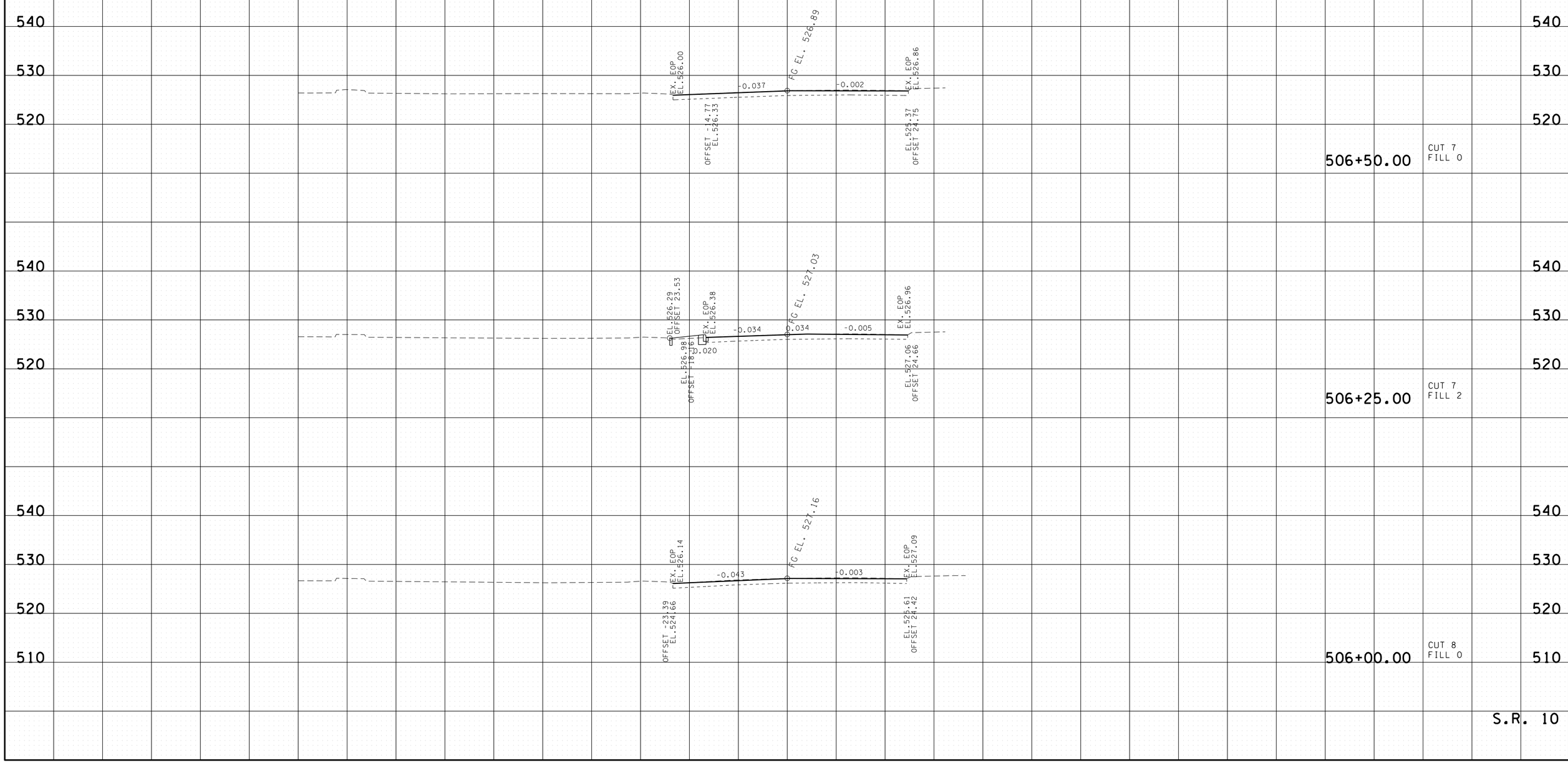
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	24



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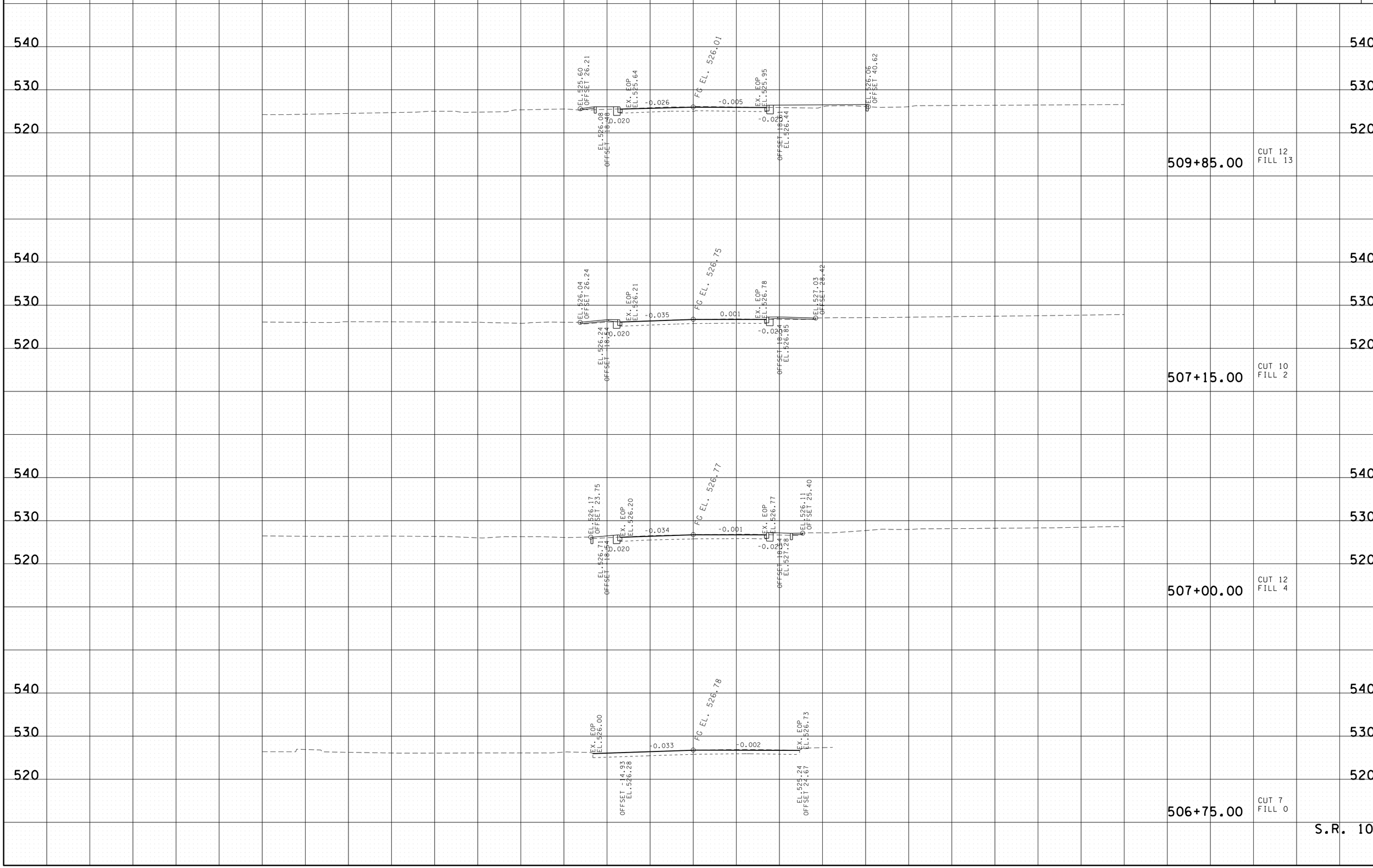
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	25



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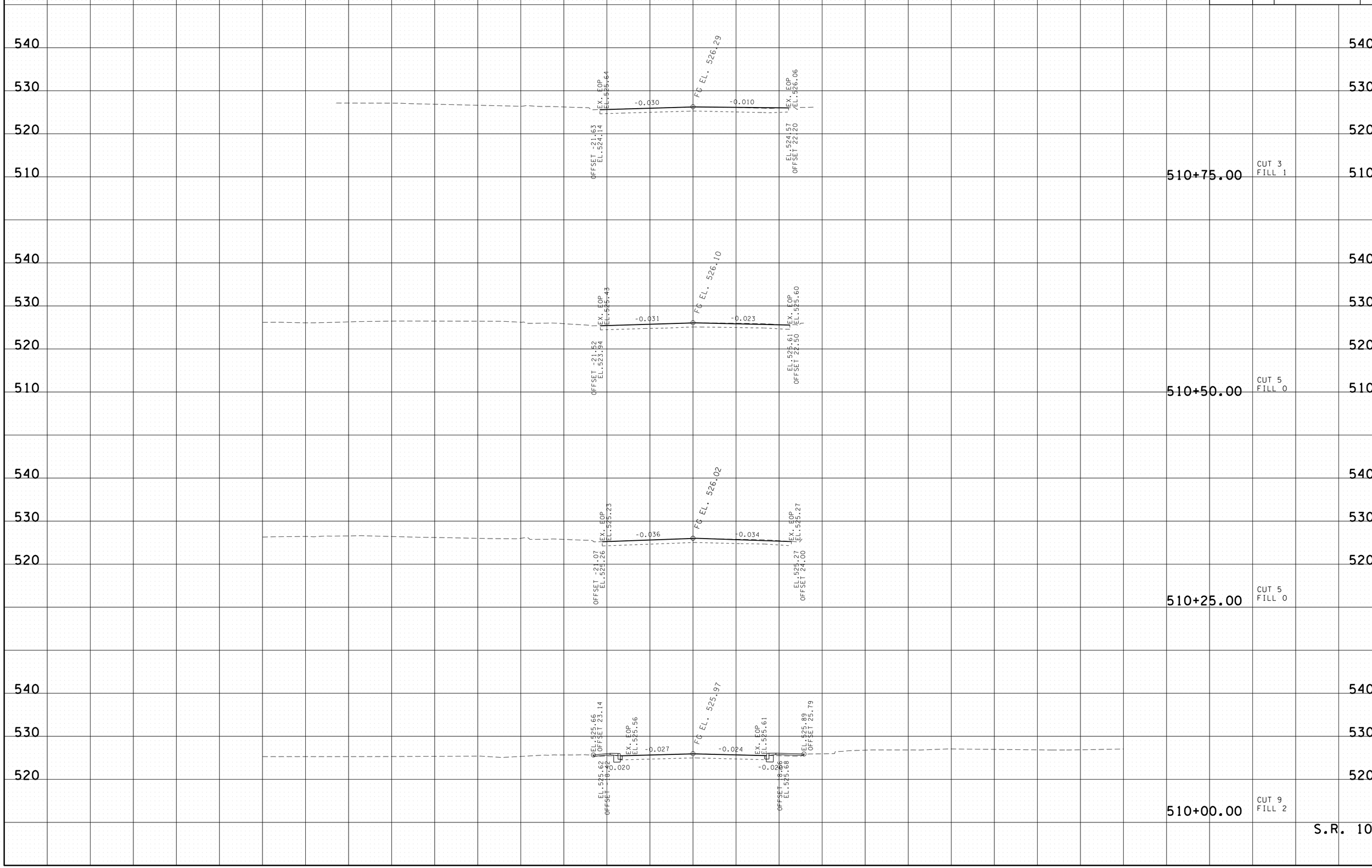
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	26



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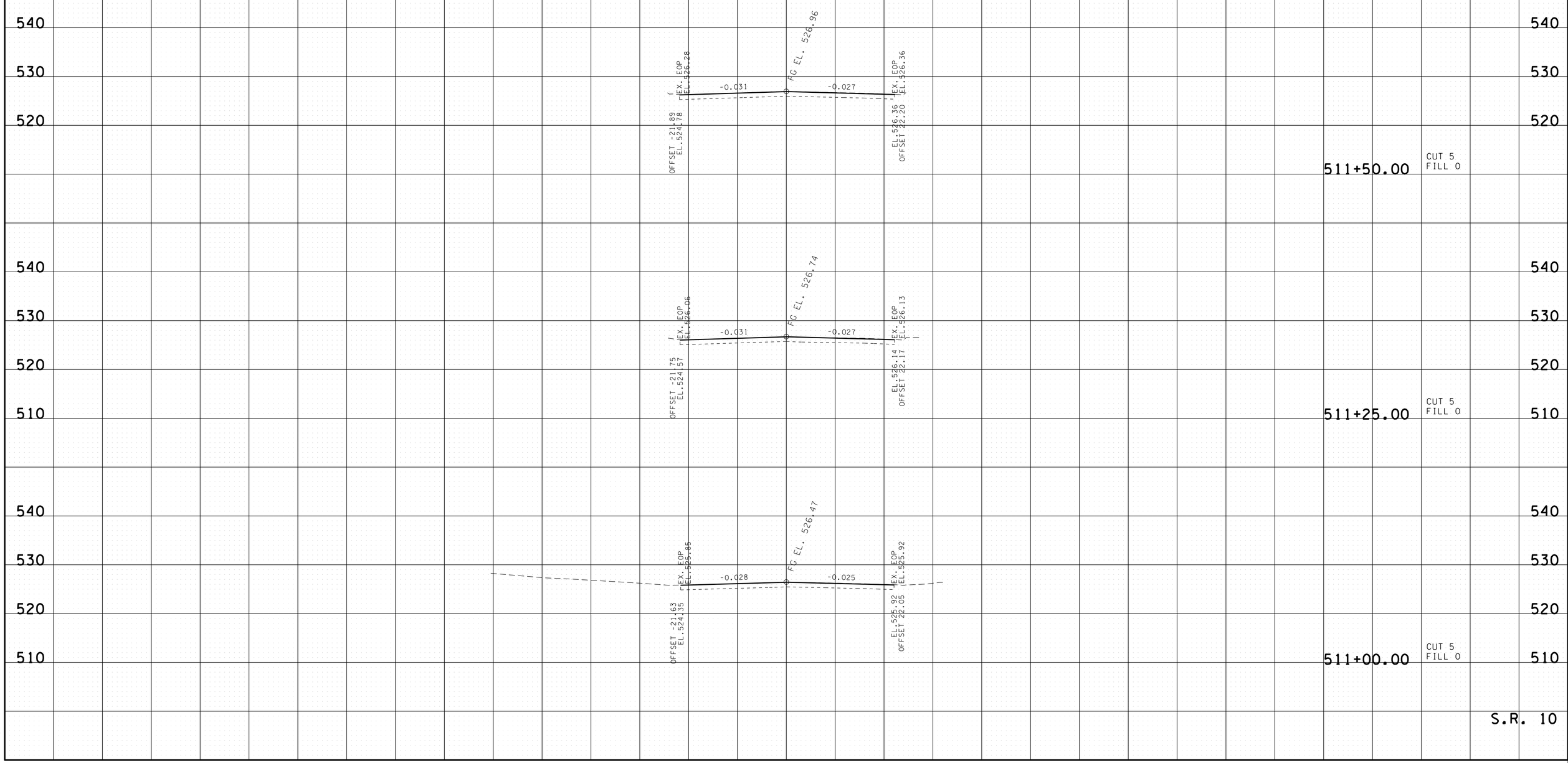
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	27



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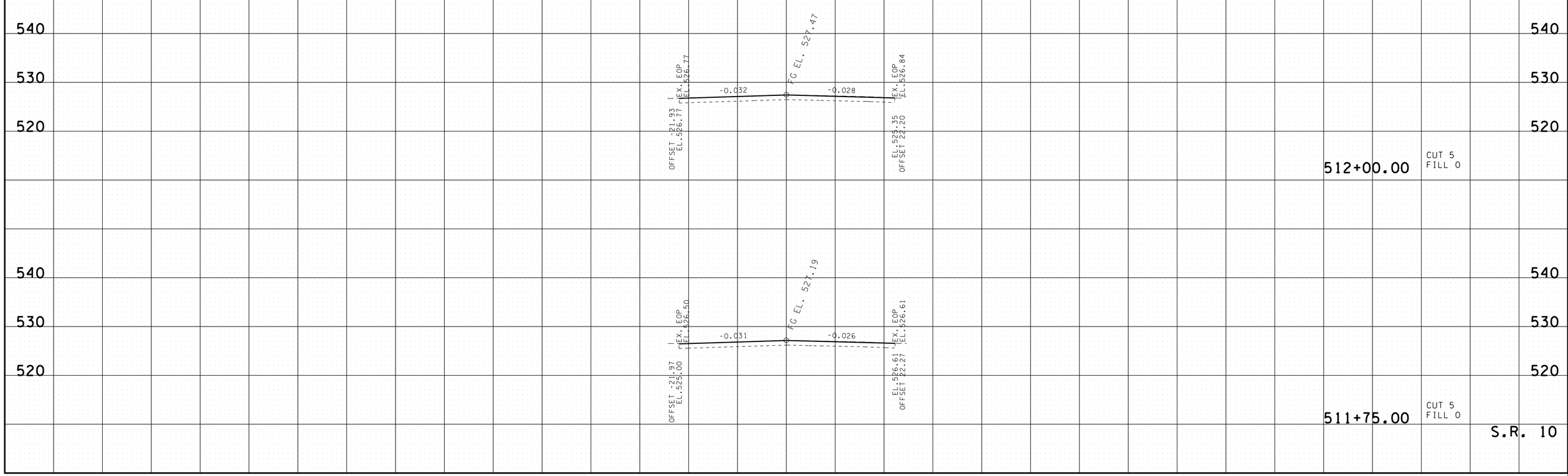
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	28



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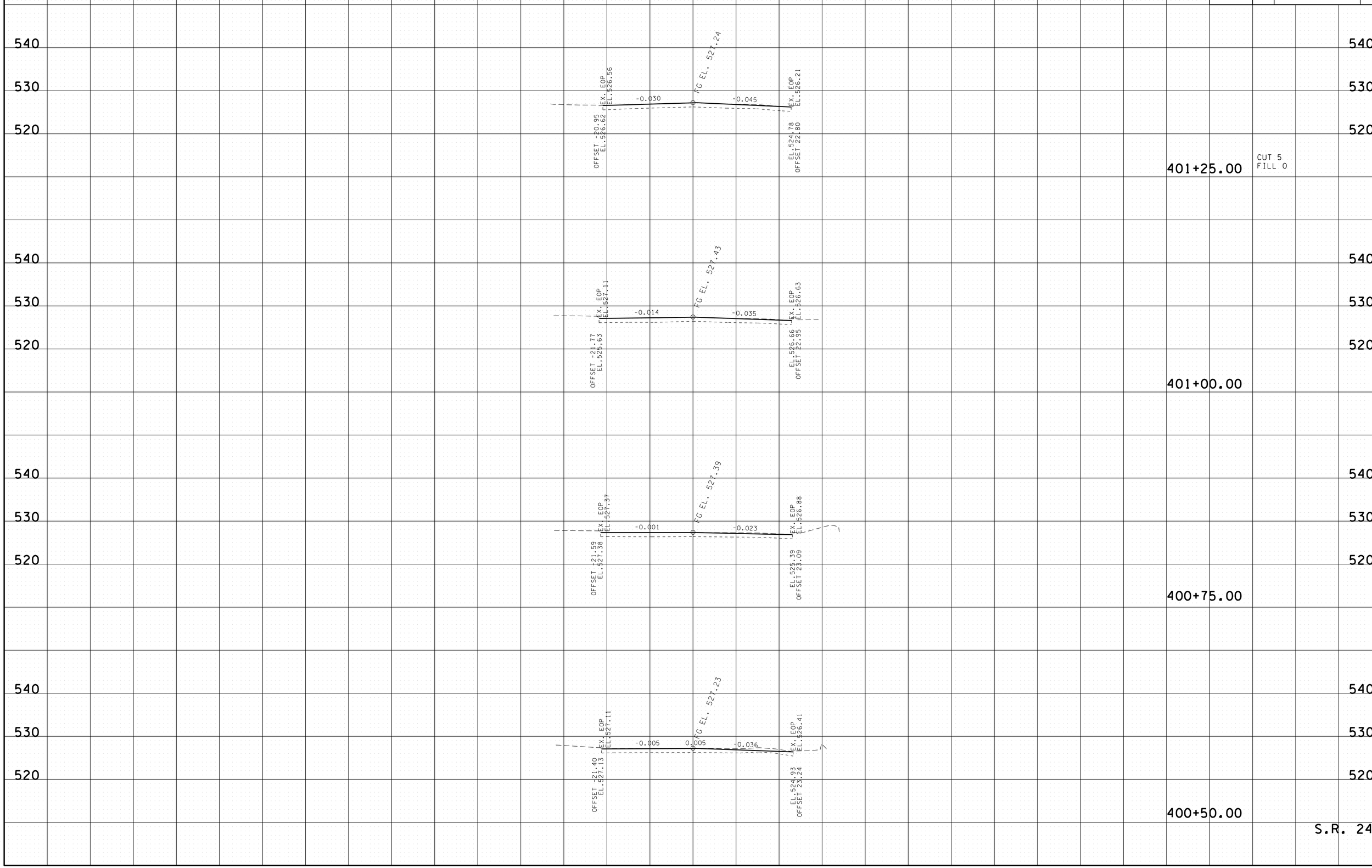
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	29



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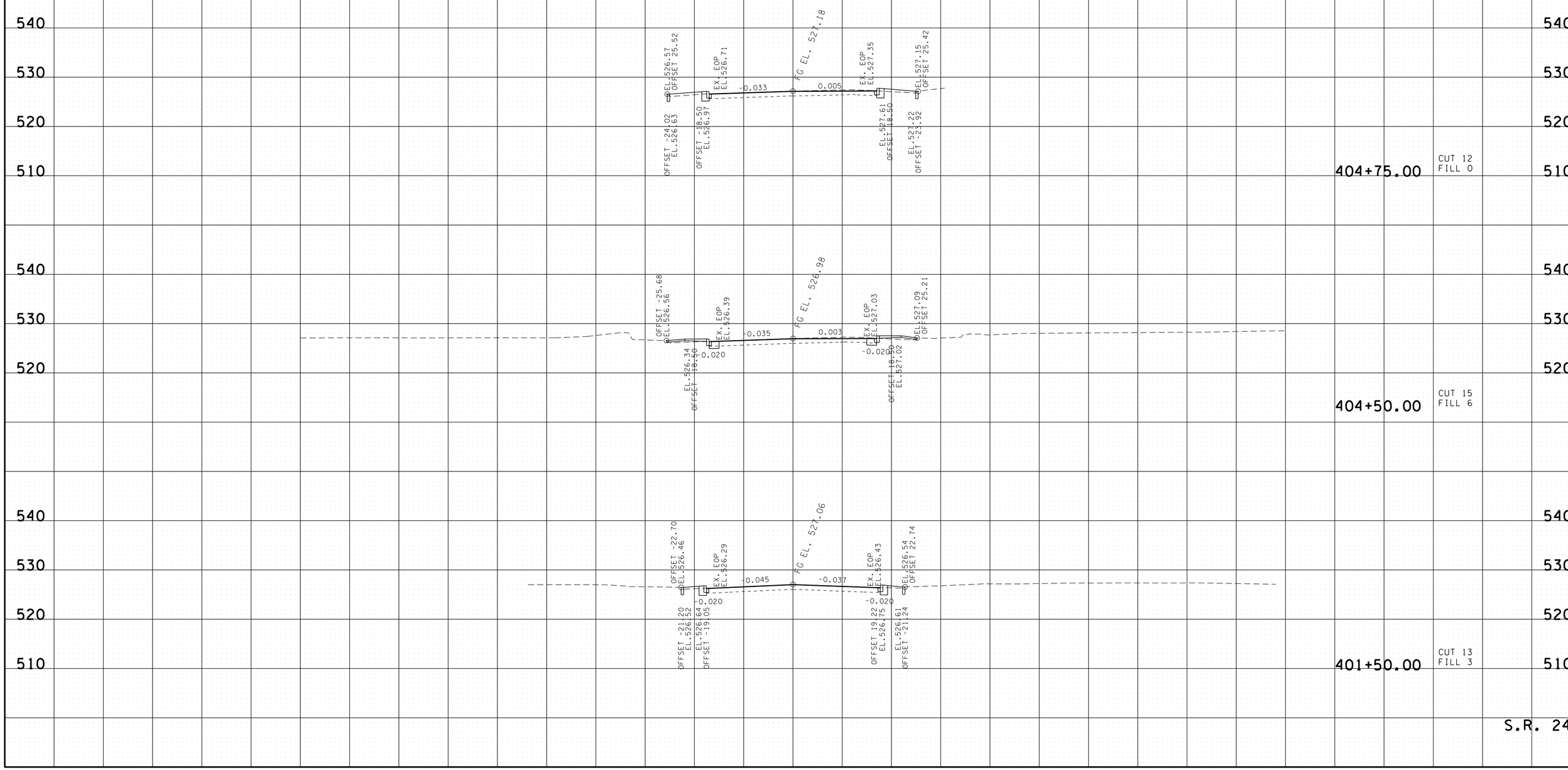
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	30



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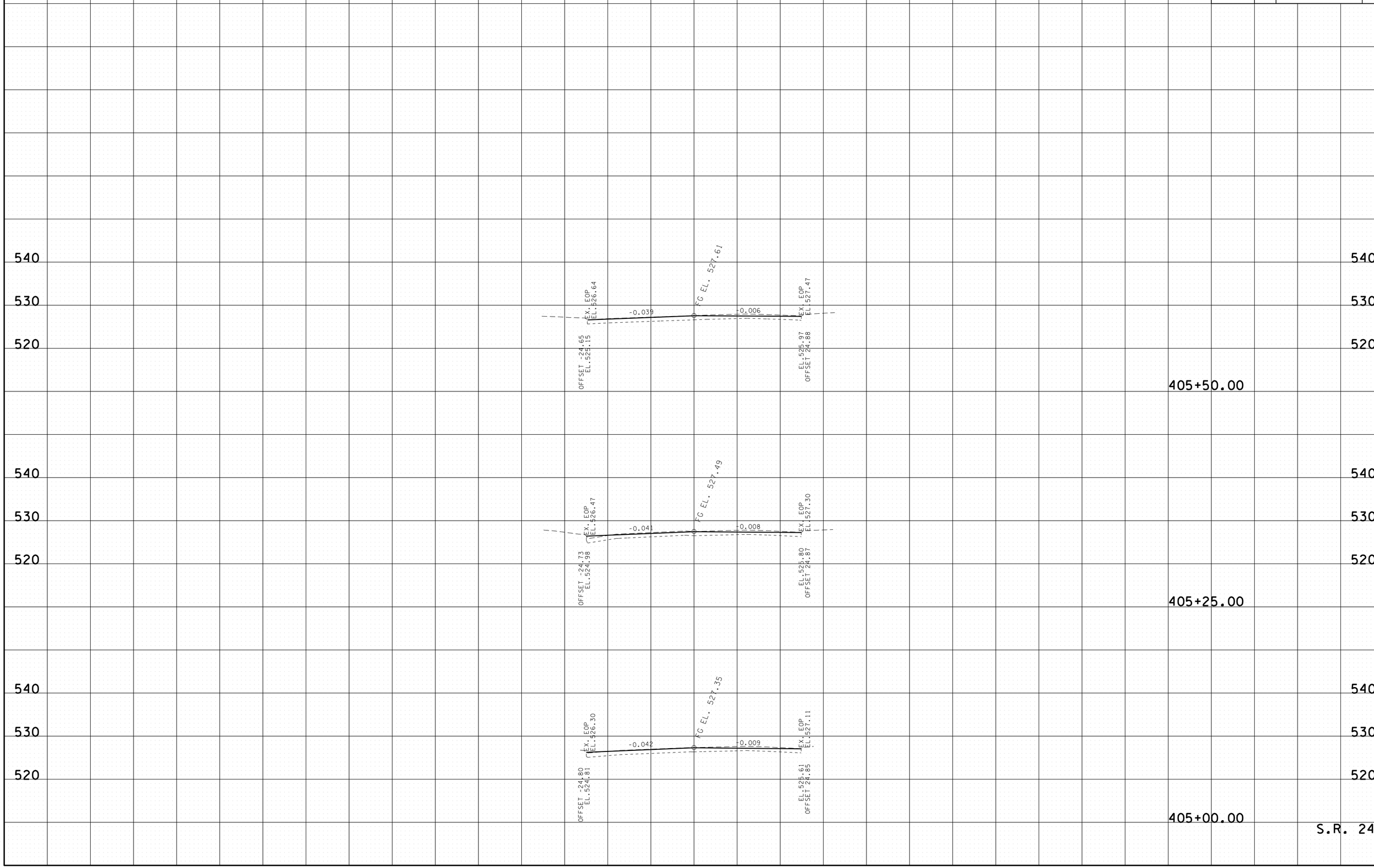
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	PHSIP/STP-EN-10(47)	31



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