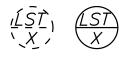
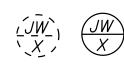
# **LEGEND**



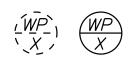
LIGHTING STANDARD IDENTIFIER (BY OTHERS AND PROPOSED)



LIGHTING SERVICE RUN IDENTIFIER (BY OTHERS AND PROPOSED)



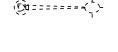
JUNCTION WELL & TYPE (EXISTING AND PROPOSED)



UNDERPASS WALL LIGHTER (EXISTING AND PROPOSED)



EXISTING LIGHTING STANDARD



PROPOSED COBRAHEAD LUMINAIRE, SINGLE DAVIT ARM (BY OTHERS)



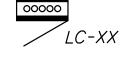
PROPOSED COBRAHEAD LUMINAIRE, SINGLE DAVIT ARM



PROPOSED METERED SERVICE PEDESTAL



PROPOSED WALL LIGHTER - TYPE 'WP' FIXTURES ON BRIDGE WALL



PROPOSED LIGHTING CONTROL CABINET



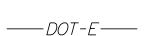
EXISTING LIGHTING CONTROL CABINET



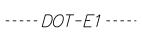
PROPOSED DISCONNECT SWITCH



— DOT-E1 — PROPOSED LIGHTING CONDUIT



ITMS/TOLL GANTRY POWER CONDUIT



LIGHTING CONDUIT



EXISTING JUNCTION WELL

PROPOSED GROUND ROD



PROPOSED JUNCTION WELL



PROPOSED STRUCTURE MOUNTED JUNCTION BOX



REMOVE BY OTHERS



REMOVE BY CONTRACTOR



RELOCATE BY CONTRACTOR



**ABANDON** 



FUTURE POWER POLE (BY OTHERS)



EXISTING POLE AS INDICATED

FUTURE POLE MOUNTED TRANSFORMER (BY OTHERS)

## GENERAL NOTES (LIGHTING)

- 1. THIS CONTRACT (T200911303) INCLUDES ROADWAY LIGHTING ASSOCIATED WITH THE CONSTRUCTION OF SECTION 2 OF US 301 BETWEEN NORTH OF LEVELS ROAD AND EAST OF NORFOLK SOUTHERN RAILROAD INCLUDING RAMPS. ROUNDABOUTS AND CONNECTOR ROAD TO SUMMIT BRIDGE ROAD. FOR SPUR ROAD RAMPS, THE LIGHTING POLES DIRECT BURIED CONDUITS AND CONDUCTORS WILL BE INSTALLED UNDER CONTRACT T200911307. THE SERVICE DROP LIGHT DISTRIBUTION CABINET AND UNDERGROUND CONDUITS UNDER US 301 PAVEMENT WILL BE UNDER THIS CONTRACT. COMPLEX INTERSECTION LIGHTING AT EXISTING ARMSTRONG CORNER/MARL PIT ROAD AND PROPOSED CONNECTOR ROAD WILL BE DONE UNDER SEPERATE CONTRACT, T201011301.
- 2. ALL ELECTRICAL WORK SHALL BE PERFORMED AND ALL MATERIAL PROVIDED SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, TO ALL LOCAL AND SPECIAL LAWS. AND/OR TO ORDINANCES GOVERNING SUCH MATERIAL. CODE SHALL BE CONSIDERED THE MINIMUM REQUIREMENTS FOR THE ELECTRICAL WORK AND IF THERE IS A CONFLICT BETWEEN THE REQUIREMENTS SPECIFIED IN THE CONTRACT DOCUMENTS AND THE CODE, THE MORE STRINGENT REQUIREMENT WILL APPLY AS DETERMINED AND APPROVED BY THE ENGINEER. WHEN THESE REQUIREMENTS DO NOT GOVERN, AND WHERE NOT OTHERWISE SPECIFIED, ELECTRICAL MATERIALS SHALL CONFORM TO THE STANDARDIZATION RULES OF THE INSTITUTE OF ELECTRICAL ENGINEERS.
- 3. THE CONTRACTOR SHALL PROVIDE AND SECURE ALL ELECTRICAL INSPECTIONS AS REQUIRED AND PAY FOR THE SAME. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AT HIS EXPENSE ALL NECESSARY PERMITS AND CERTIFICATES AS REQUIRED.
- 4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL THE CONTRACTORS INVOLVED ON THIS PROJECT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE GENERAL SUPERINTENDENT THE LOCATIONS OF ALL CONDUIT, HANDHOLES, POLE BASES, LIGHTING DISTRIBUTION CABINETS, ETC. TO ELIMINATE CONSTRUCTION CONFLICTS.
- 5. BURIED ELECTRICAL CABLE AND CONDUIT, AND OTHER UTILITIES MAY EXIST THROUGHOUT THIS PROJECT. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PREVENTING DAMAGE TO THEM, AND MAINTAINING THEM IN SERVICE WHEN AND WHERE REQUIRED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BY HAND EXCAVATION PRIOR TO TRENCHING BY MACHINE.
- 6. THE ELECTRICAL CONTRACT<mark>OR SHALL GUARANTEE ALL W</mark>ORK MATERIAL AND LABOR TO BE FREE FROM DEFECTS FOR A ONE YEAR PERIOD FROM THE TIME OF OWNER ACCEPTANCE. ANY DEFECTS OCCURRING DURING THIS PERIOD SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 7. CONDUIT RUNS AND JUNCTION WELLS ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL LOCATE THE CONDUIT RUNS AND INSTALL JUNCTION WELLS IN A MANNER THAT AVOIDS CONFLICTS WITH ALL EXISTING AND PROPOSED FEATURES AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ENGINEER.
- COLOR CODING SHALL BE PROVIDED THROUGHOUT THE ENTIRE NETWORK FOR SERVICE, FEEDER, BRANCH AND CONTROL CONDUCTORS. EACH PHASE SHALL BE AN INDEPENDENT COLOR. CONDUCTORS SHALL HAVE FACTORY IMPREGNATED COLOR THROUGHOUT THEIR ENTIRE LENGTH. PHASE TAPING IS NOT PERMITTED.
- 9. THE CONTRACTOR SHALL NOTIFY DELMARVA POWER TWO WEEKS IN ADVANCE TO ARRANGE FINAL POWER CONNECTIONS.
- 10. ALL FUSED CONNECTIONS SHALL BE MADE IN THE POLE BASE. SPLICES IN JUNCTION BOXES PULL BOXES SHALL NOT BE FUSED.
- 11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO WORK.
- 12. WORK INCLUDES FURNISHING LABOR, MATERIAL, EQUIPMENT AND SERVICE NECESSARY AND INCIDENTAL TO PROPER COMPLETION OF THE ELECTRICAL WORK AS SHOWN. MINOR ITEMS, ACCESSORIES OR DEVICES NECESSARY FOR COMPLETION AND PROPER OPERATION OF ANY SYSTEM SHALL BE PROVIDED WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY SPECIFICATIONS OR DRAWINGS.
- 13. ALL CONDUITS, JUNCTION WELLS, LIGHTING STANDARDS, ETC. SHALL BE STAKED OUT AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS DONE.
- ALL STATION, OFFSET AND DIMENSION INFORMATION SHOWN FOR PROPOSED LIGHTING STANDARDS IS TO THE CENTER OF THE POLE BASE.
- 5. THE ELEC<mark>TRICAL CONTRACTOR SHALL COORDINATE THE INSTALL</mark>ATION OF LIGHTING CONDUITS WI<mark>TH</mark> ITMS AND TOLL BOOTH POWER/COMMUNICATION CONDUITS. TOLL BOOTH/ITMS AND LIGHTING CONDUITS MAY SHARE A COMMON TRENCH BUT SHALL NOT SHARE COMMON JUNCTION WELLS.
- ELECTRICAL CABLES SHALL BE REMOVED FROM ALL CONDUITS DESIGNATED TO BE ABANDONED. ABANDONED CONDUITS SHALL BE CUT A MINIMUM OF ONE FOOT BELOW FINISHED GRADE AND SHALL BE CAPPED AT BOTH ENDS.
- 17. EXISTING ROADWAY LIGHTING CONDUITS AND CABLES SHALL REMAIN UNLESS NOTED OTHERWISE ON THE PLANS.
- 18. SPLICES FOR ALL ROADWAY LIGHTING ELECTRICAL CABLES, INCLUDING RE-CONNECTION OF EXISTING IMPACTED ELECTRICAL CABLES, SHALL BE COMPLETED USING APPROVED SPLICE KITS OR METHODS APPROVED BY THE ENGINEER AND SHALL BE INCIDENTAL TO THE SUPPLY AND INSTALLATION OF VARIOUS ROADWAY LIGHTING ELECTRICAL CABLES.
- 19. ALL PROPOSED DAVIT ARM LIGHTING STANDARDS SHALL BE INSTALLED WITH BREAKAWAY TRANSFORMER BASES. WHETHER PROTECTED OR UNPROTECTED, UNLESS OTHERWISE NOTED.
- 20. PAYMENT FOR REMOVAL OF EXISTING JUNCTION WELLS SHALL BE MADE UNDER ITEM 744525.

ADDENDUMS / REVISIONS

- 21. PAYMENT FOR RELOCATION OF EXISTING LIGHT POLES AND ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE MADE UNDER ITEM 746509.
- 22. UNDERGROUND CONDUITS SHALL BE SLOPED TO DRAIN TO THE NEAREST JUNCTION WELL. IF THIS CANNOT BE ACCOMPLISHED, PROVIDE A DRAINAGE TEE AT LOW POINT OF CONDUIT RUN. THE COST OF THIS WILL BE INCIDENTAL TO THE CONDUIT PAY ITEM.

### 23. ALL GROUNDING CONDUCTORS IN PROPOSED UNDERGROUND CONDUITS SHALL BE INSULATED STRANDED COPPER WITH SIZE AS NOTED IN LIGHTING SERVICE SCHEDULE.

- 24. THE CONTRACTOR SHALL VERIFY THE OPERATING VOLTAGE OF ALL CIRCUITS OF THE EXISTING LIGHTING SYSTEMS THAT ARE BEING TIED INTO TO ENSURE COMPATIBILITY WITH PROPOSED LUMINAIRES.
- 25. ALL PROPOSED ROADWAY LIGHTING CONDUITS (SERVICE RUNS) SHALL BE RIGID GALVANIZED STEEL AND/OR PVC SCHEDULE 80 AS SHOWN ON PLAN SHEETS. WHEREVER EMPTY CONDUITS ARE SHOWN FOR FUTURE USE. PROVIDE NYLON ROPE PULL STRINGS.
- 26. ALL PROPOSED LIGHTING STANDARDS SHALL BE INSTALLED ON POLE BASES FOR A THIRTY (30) OR FORTY (40) FOOT NOMINAL MOUNTING HEIGHT AS INDICATED IN THE LIGHTING STANDARD SCHEDULE AND AS NOTED IN DETAILS.
- 27. PROVIDE ADDITIONAL LENGTH OF GROUND WIRE (MAX. 10') AT EACH JUNCTION WELL FOR POTENTIAL GROUNDING/BONDING PURPOSES.
- 28. ALL LIGHTING CONTROL CENTER PANELBOARDS SHALL HAVE BOLT-IN CIRCUIT BREAKERS.
- 29. PRIOR TO ROADWAY CONSTRUCTION LIGHTING CONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION UNDER PROPOSED ROADWAY VIA TRENCHING METHOD WITH GENERAL CONTRACTOR.
- 30. ALL EXPOSED CONDUITS FROM GRADE TO EQUIPMENT/ALONG POLE WILL BE RGS. ALL UNDERGROUND CONDUIT WILL BE PVC SCHEDULE 80, UNLESS NOTED OTHERWISE. PROVIDE RGS BENDS AS REQUIRED WHEN TRANSITIONING FROM UNDERGROUND TO EXPOSED.

**DELAWARE DEPARTMENT OF TRANSPORTATION** 

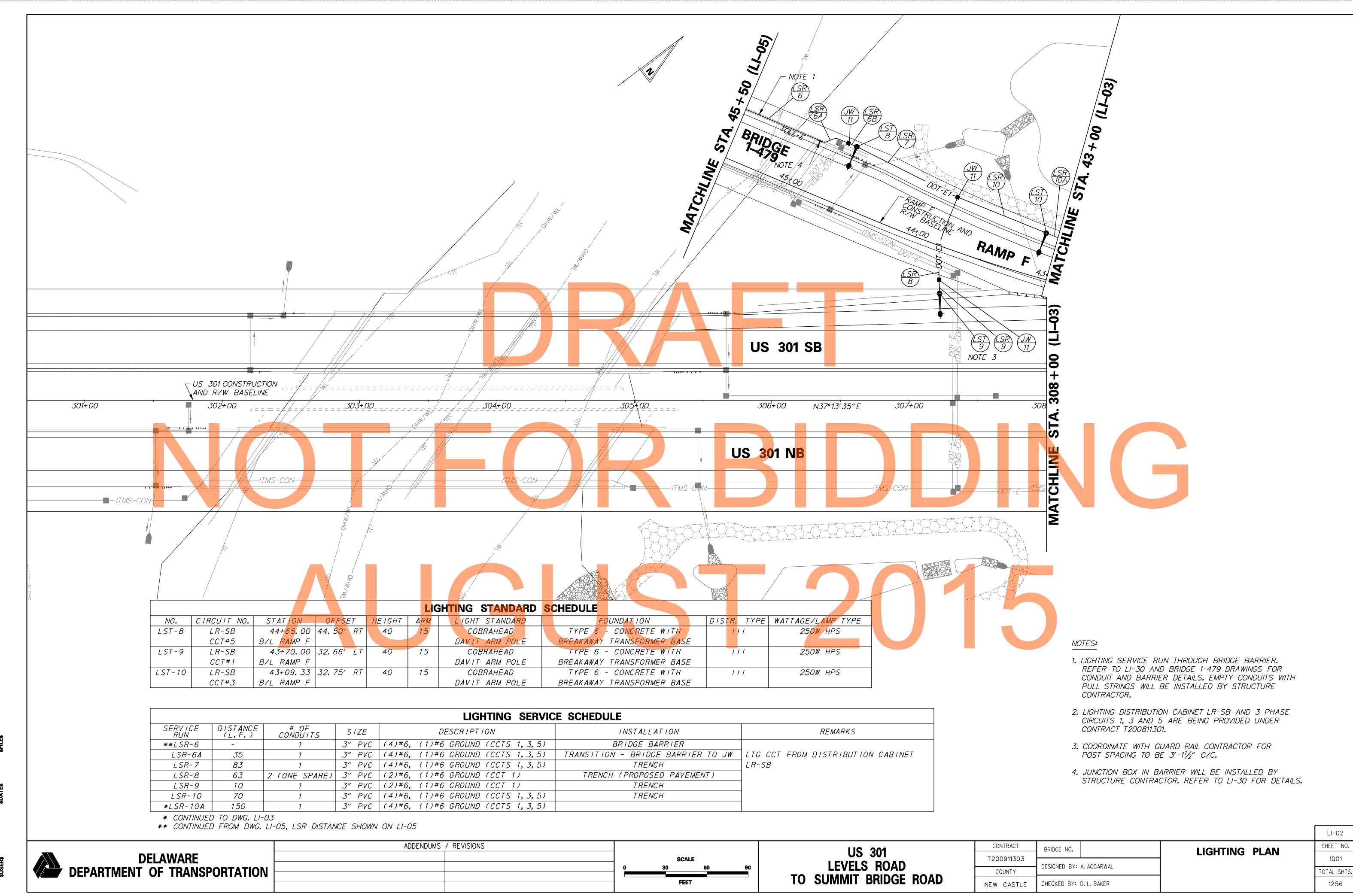
**US 301** LEVELS ROAD TO SUMMIT BRIDGE ROAD

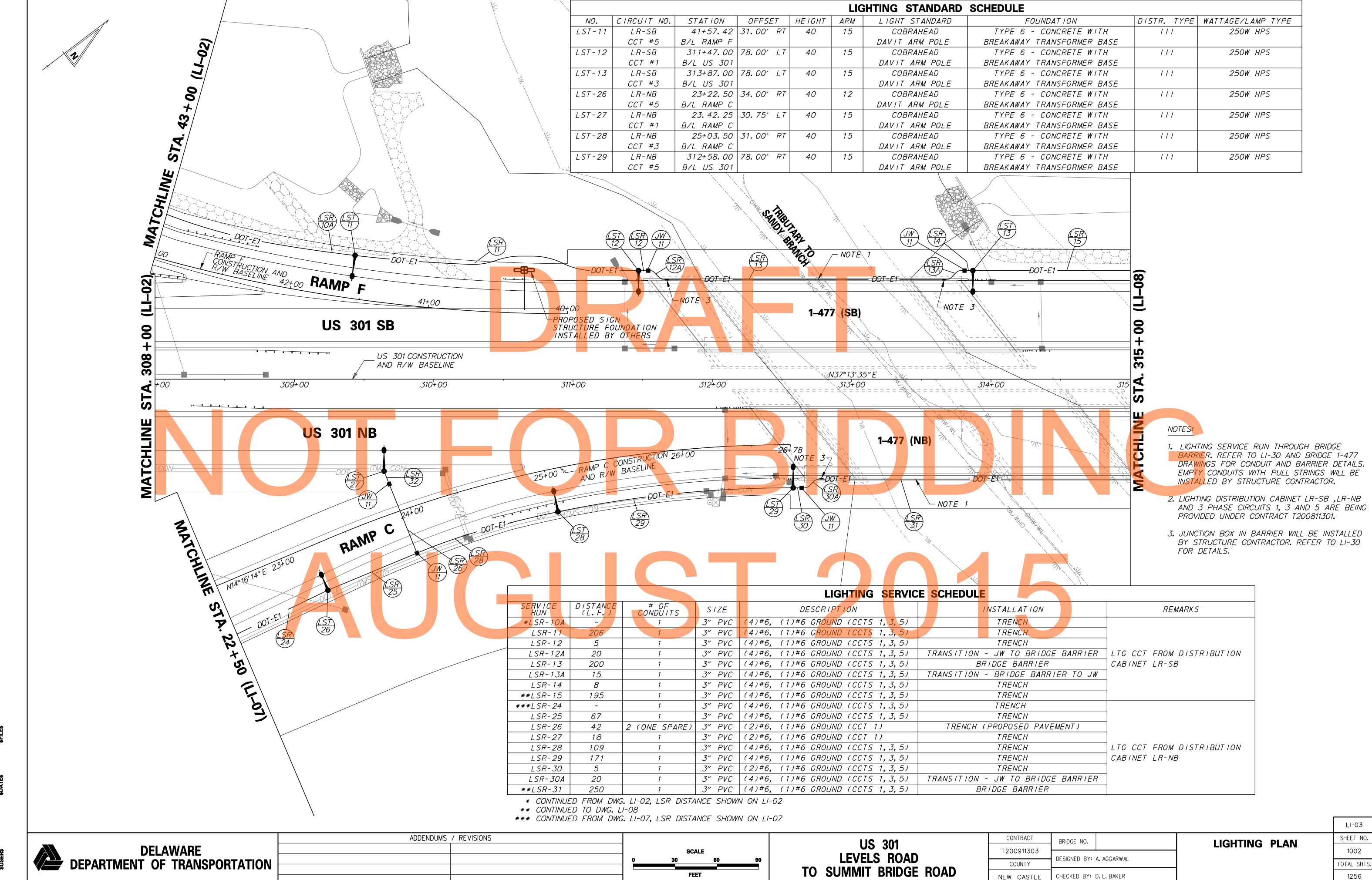
CONTRACT BRIDGE NO. T200911303 DESIGNED BY: A. AGGARWAL COUNTY CHECKED BY: D. L. BAKER NEW CASTLE

LIGHTING PLAN **GENERAL NOTES** AND LEGEND

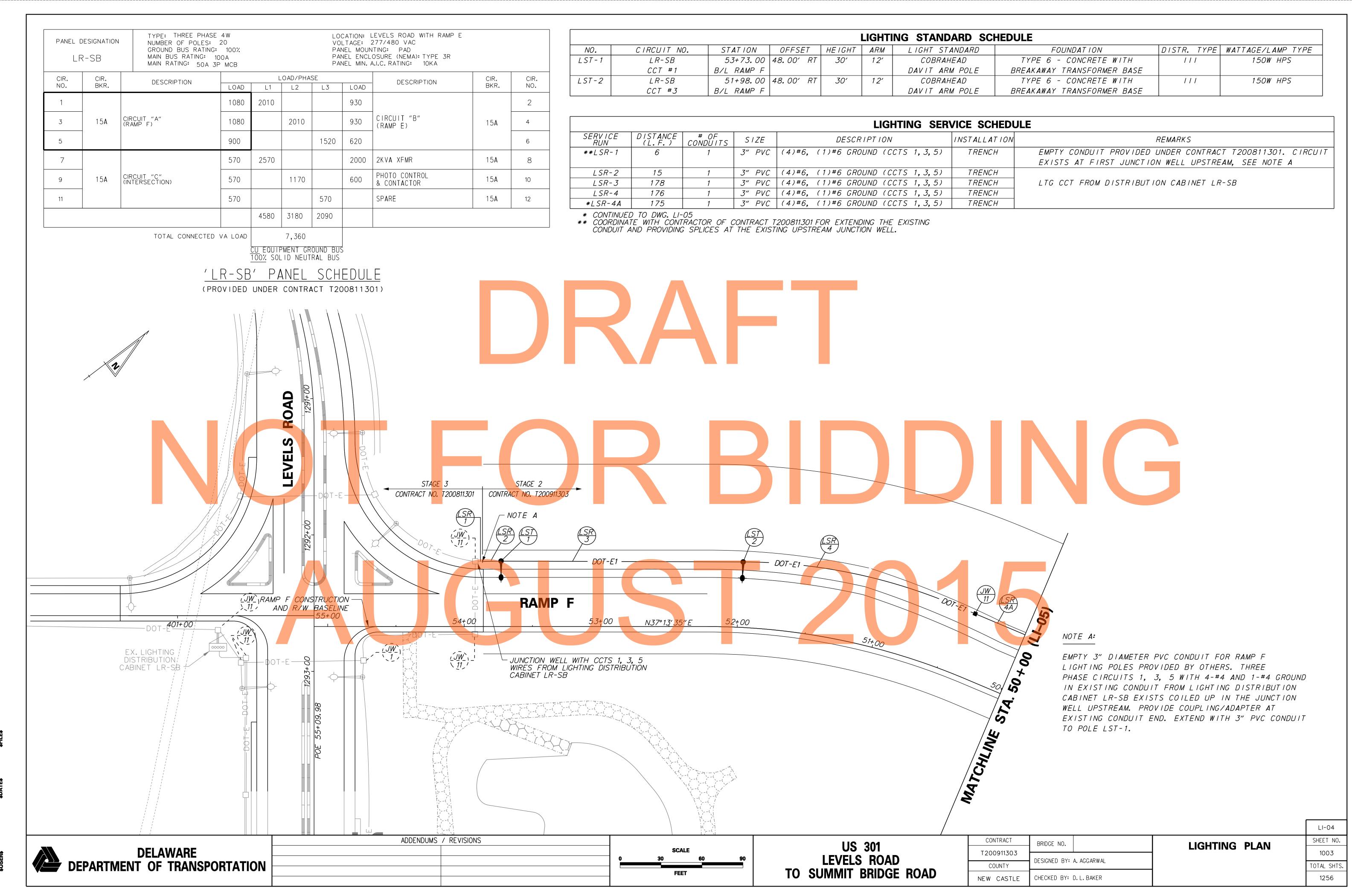
SHEET NO. 1000 TOTAL SHTS. 1256

LI-01





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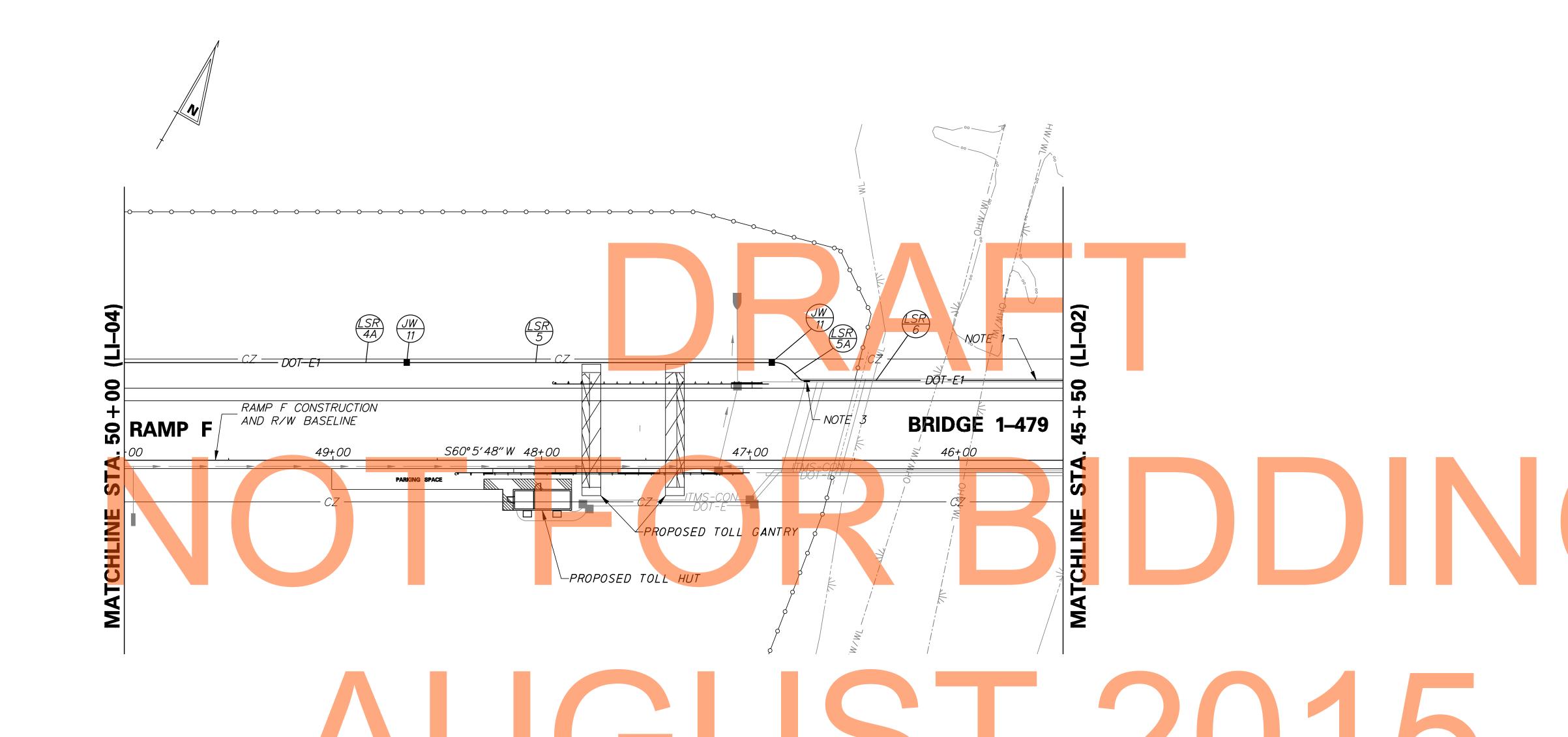


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				LIGHTING SERV	/ICE SCHEDULE	
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPT ION	INSTALLATION	REMARKS
*LSR-4A	-	1	3" PVC (4)#6, (	1)#6 GROUND (CCTS 1, 3, 5)	TRENCH	
LSR-5	175	1	3" PVC (4)#6, (	1)#6 GROUND (CCTS 1,3,5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-SB
LSR-5A	20	1	3" PVC (4)#6, (	1)#6 GROUND (CCTS 1,3,5)	TRANSITION - BRIDGE BARRIER TO JW	
**LSR-6	190	1	3" PVC (4)#6, (	1)#6 GROUND (CCTS 1,3,5)	BRIDGE BARRIER	

\* CONTINUED FROM DWG. LI-04, LSR DISTANCE SHOWN ON LI-04

\*\* CONTINUED TO DWG. LI-02

## NOTES:

- 1. LIGHTING SERVICE RUN THROUGH BRIDGE BARRIER.

  REFER TO LI-30 AND BRIDGE 1-479 DRAWINGS FOR

  CONDUIT AND BARRIER DETAILS. EMPTY CONDUITS

  WITH PULL STRINGS WILL BE INSTALLED BY

  STRUCTURE CONTRACTOR.
- 2. LIGHTING DISTRIBUTION CABINET LR-SB AND 3 PHASE CIRCUITS 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.
- 3. JUNCTION BOX IN BARRIER WILL BE INSTALLED BY STRUCTURE CONTRACTOR. REFER TO LI-30 FOR DETAILS.

	ADDENDUMS	/ REVISIONS				
DELAWARE DEDARTMENT OF TRANSPORTATION			]     0	SCA 30	LE 60	
DEPARTMENT OF TRANSPORTATION			-	FEE	:T	

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD CONTRACT
BRIDGE NO.

T200911303

COUNTY

DESIGNED BY: A. AGGARWAL

NEW CASTLE
CHECKED BY: D. L. BAKER

LIGHTING PLAN

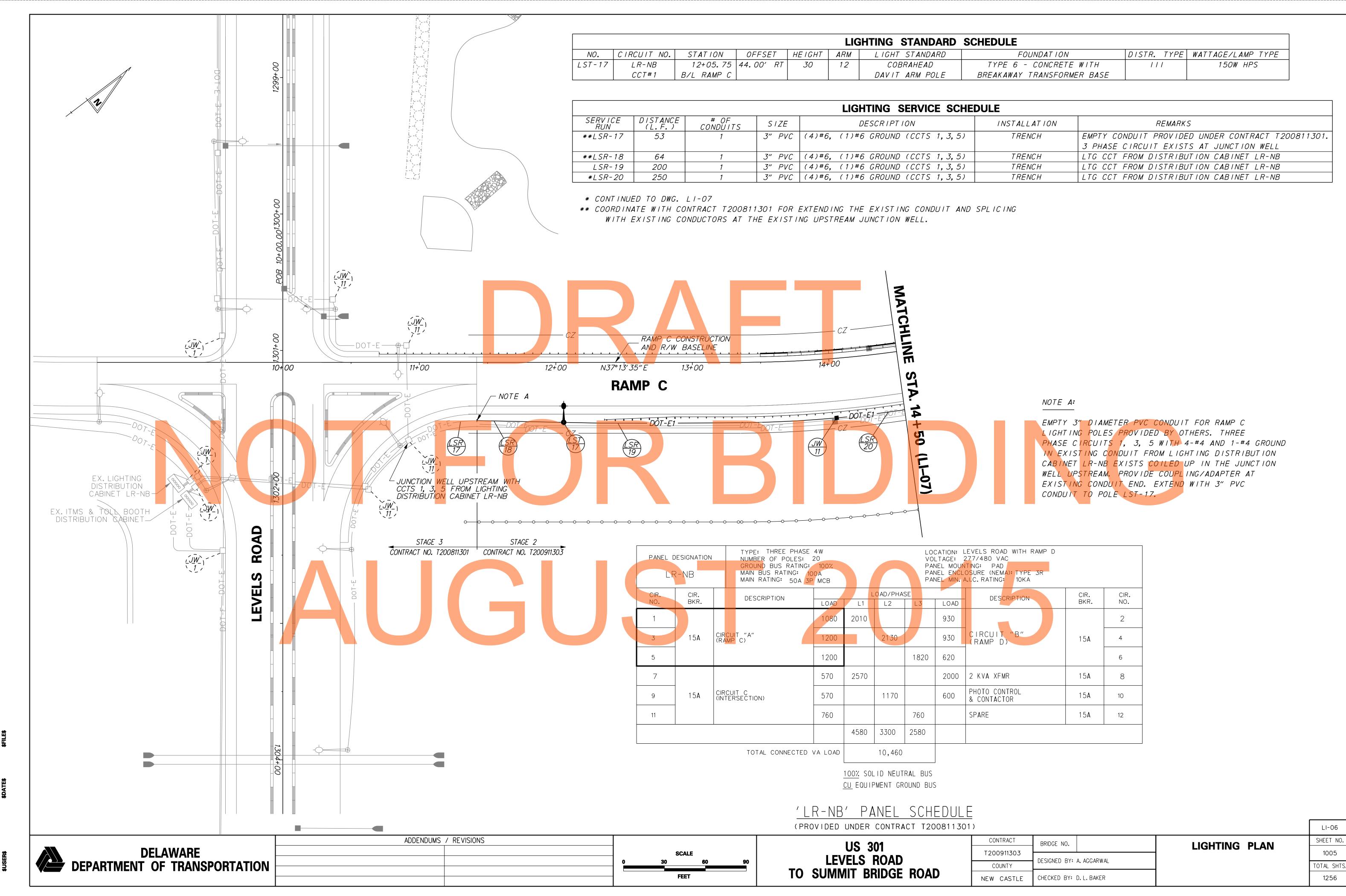
SHEET NO.

1004

TOTAL SHTS.

1256

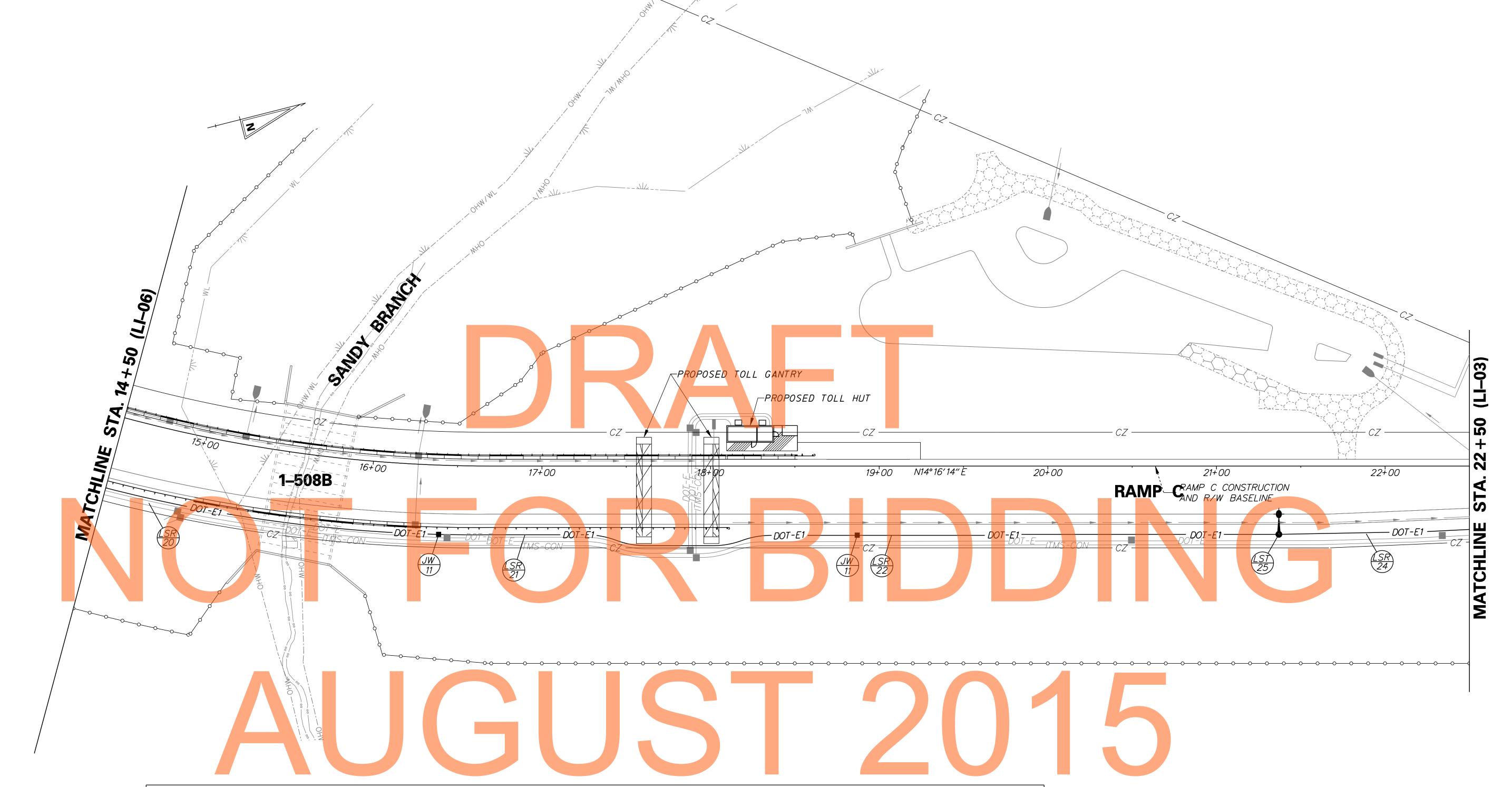
LI-05











	LIGHTING STANDARD SCHEDULE										
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE		
LST-25	LR-NB	21+37.00	40.50′ RT	40	12	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT #3	B/L RAMP C				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				

	LIGHTING SERVICE SCHEDULE											
SERV ICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS						
*LSR-20	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1,3,5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET						
LSR-21	250	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1,3,5)	TRENCH	LR-NB						
LSR-22	250	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1,3,5)	TRENCH							
**LSR-24	186	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 1,3,5)	TRENCH							

\* CONTINUED FROM DWG. LI-06, LSR DISTANCE SHOWN ON LI-06

\*\* CONTINUED TO DWG. LI-03

### NOTE:

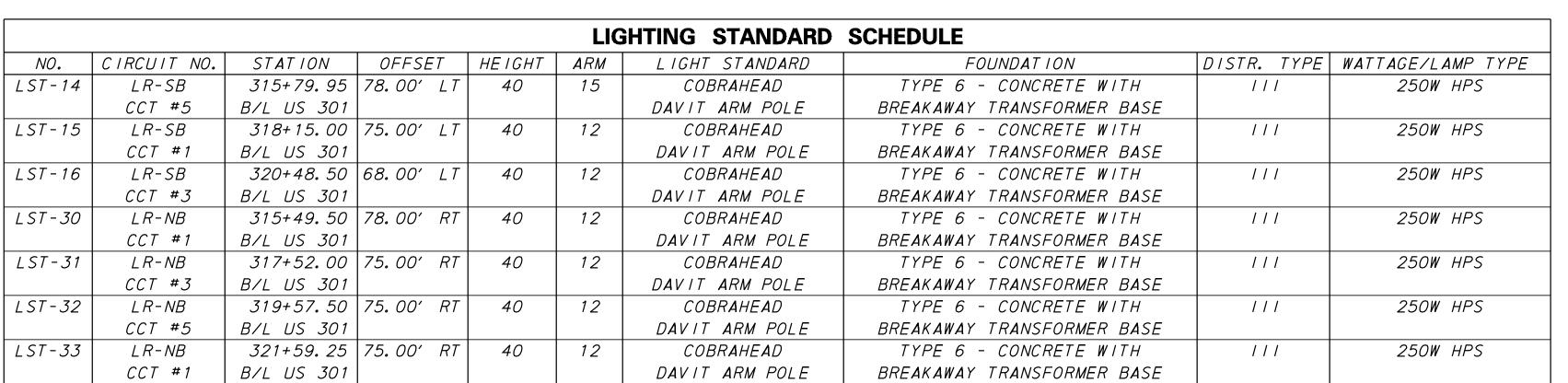
LIGHTING DISTRIBUTION CABINET LR-NB AND 3 PHASE CIRCUITS 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.

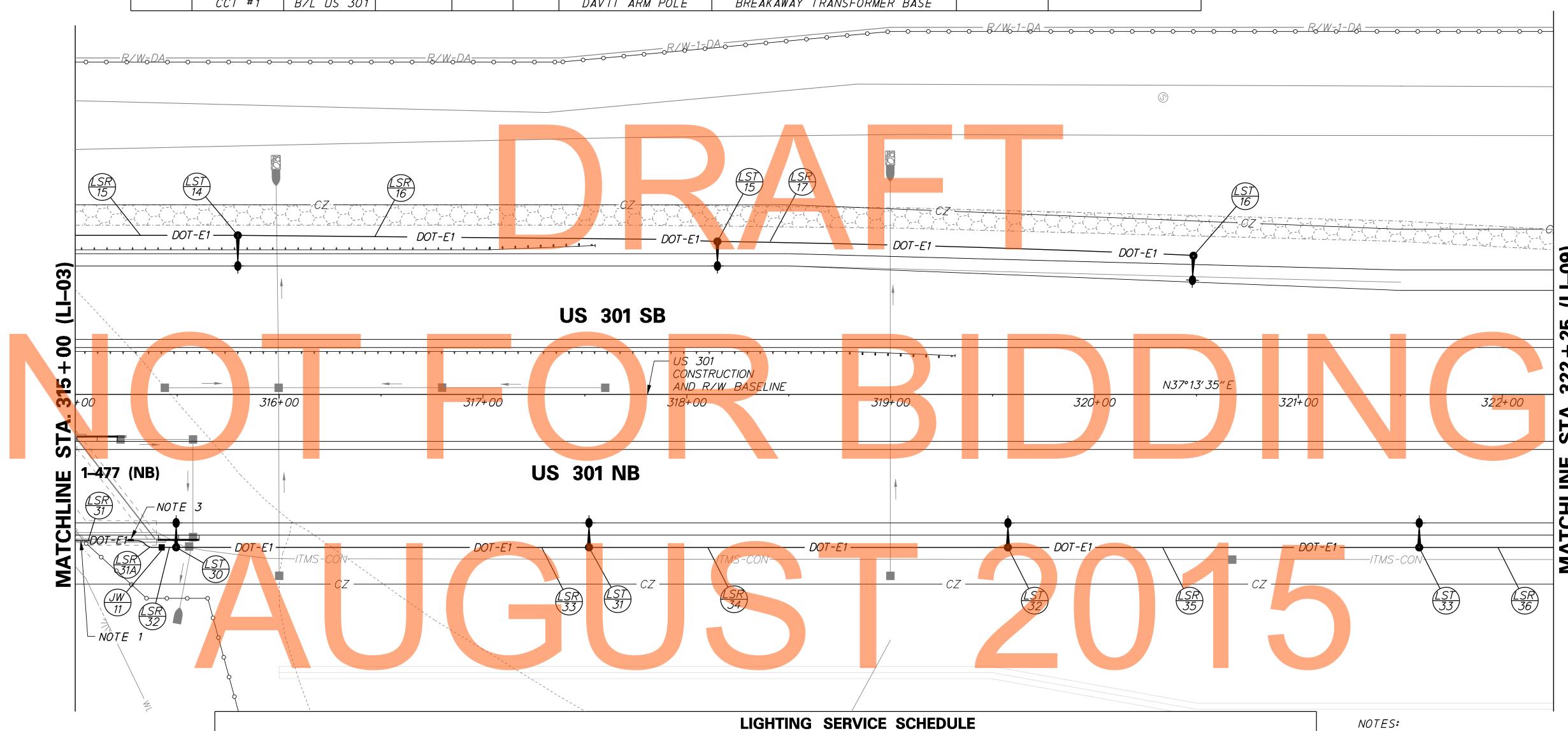
		ADDENDUMS	/ REVISIONS			
	DELAWARE			SCALE		US 301
DEPA				0 30 60	90	LEVELS ROAD
DEPA	RTMENT OF TRANSPORTATION			EEET		TO SUMMIT BRIDGE ROAD
				FEET		10 COMMINITION

CONTRACT LIGHTING PLAN BRIDGE NO. T200911303 DESIGNED BY: A. AGGARWAL COUNTY NEW CASTLE | CHECKED BY: D. L. BAKER

SHEET NO. TOTAL SHTS. 1256

**DELAWARE DEPARTMENT OF TRANSPORTATION** 





SERV ICE RUN DISTANCE (L.F.) # OF CONDUITS SIZE DESCRIPTION INSTALLATION REMARKS LTG CCT FROM DISTRIBUTION TRENCH \*\*LSR-15 3" PVC (4)#6, (1)#6 GROUND (CCTS 1, 3, 5) 3" PVC (3)#6, (1)#6 GROUND (CCTS 1,3) LSR-16 TRENCH CABINET LR-SB 236 LSR-17 3" PVC (2)#6, (1)#6 GROUND (CCT 3) TRENCH 234 3" PVC (4)#6, (1)#6 GROUND (CCTS 1, 3, 5) BRIDGE BARRIER \*\*LSR-31 TRANSITION - BRIDGE BARRIER TO JW LSR-31A 3" PVC (4)#6, (1)#6 GROUND (CCTS 1,3,5) 15 3" PVC (4)#6, (1)#6 GROUND (CCTS 1, 3, 5) LSR-32 TRENCH LTG CCT FROM DISTRIBUTION TRENCH LSR-33 3" PVC (4)#6, (1)#6 GROUND (CCTS 1, 3, 5) 203 CABINET LR-NB 3" PVC (4)#6, (1)#6 GROUND (CCTS 1, 3, 5) LSR-34 TRENCH 206 TRENCH LSR-35 3" PVC (4)#6, (1)#6 GROUND (CCTS 1, 3, 5) 202

3" PVC (3)#6, (1)#6 GROUND (CCTS 3,5)

\* CONTINUED TO DWG. LI-09

223

\*LSR-36

\*\* CONTINUED FROM DWG. LI-03, LSR DISTANCE SHOWN ON LI-03

ADDENDUMS / REVISIONS

- 1. LIGHTING SERVICE RUN THROUGH BRIDGE BARRIER. REFER TO LI-30 AND BRIDGE 1-477 DRAWINGS FOR CONDUIT AND BARRIER DETAILS. EMPTY CONDUITS WITH PULL STRINGS WILL BE INSTALLED BY STRUCTURE CONTRACTOR.
- 2. LIGHTING DISTRIBUTION CABINET LR-NB, LR-SB AND 3 PHASE CIRCUIT 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.
- 3. JUNCTION BOX IN BARRIER WILL BE INSTALLED BY STRUCTURE CONTRACTOR. REFER TO LI-30 FOR DETAILS.

	US 301	
	LEVELS ROAD	
TO	SUMMIT BRIDGE ROAD	

TRENCH

CONTRACT	BRIDGE NO.					
T 0 0 0 0 1 1 7 0 7	51115 62 1161					
T200911303	DECIONED DV.					
COUNTY	DESIGNED BY: A. AGGARWAL					
NEW CASTLE	CHECKED BY: (	D. L. BAKER				

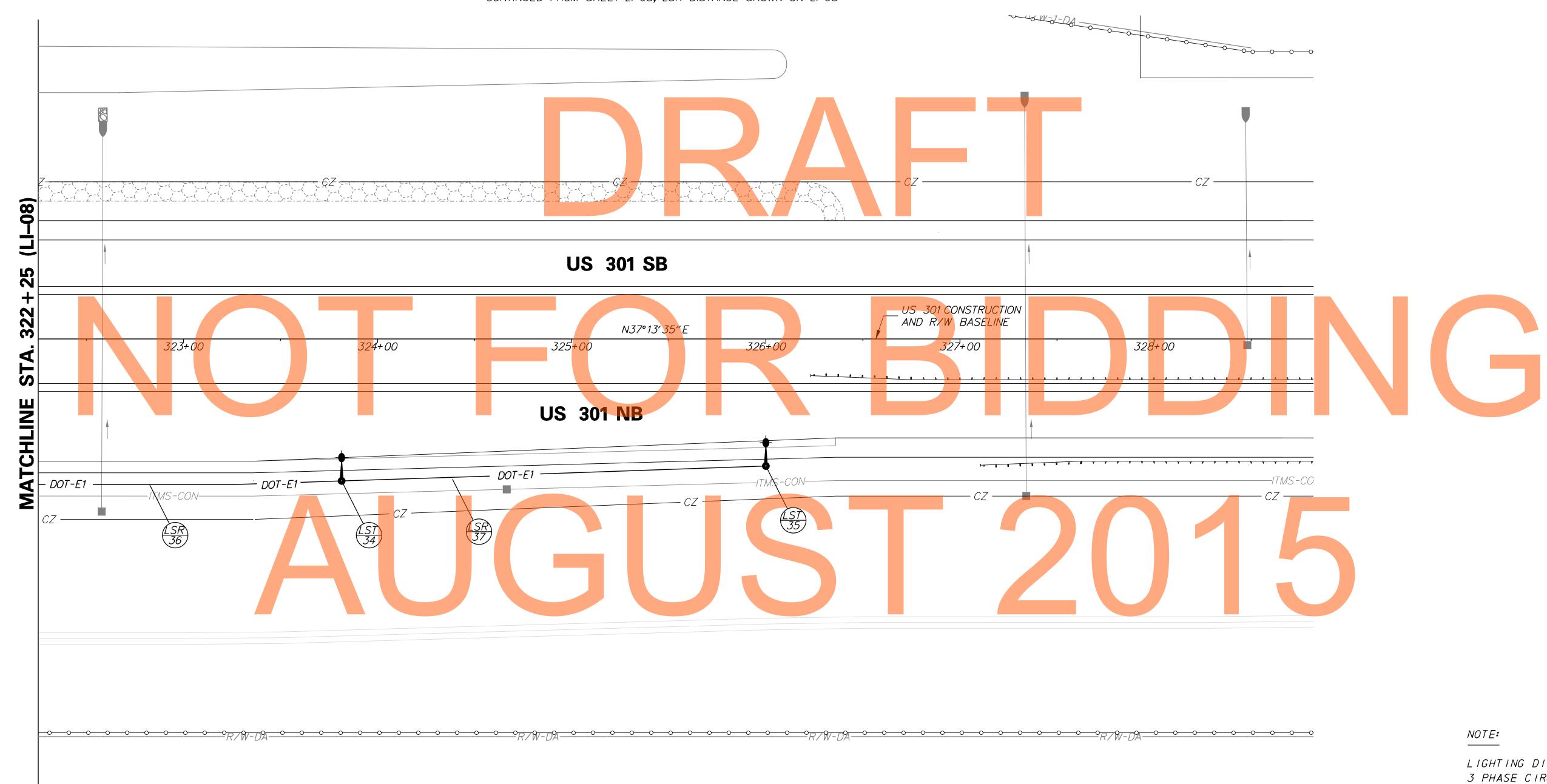
LI-08

1256

	LIGHTING STANDARD SCHEDULE										
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE		
LST-34	LR-NB	323+81.50	73. 20' RT	40	12	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT#3	B/L US 301				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				
LST-35	LR-NB	326+00.00	65.50′ RT	40	12	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT#5	B/L US 301				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				

LIGHTING SERVICE SCHEDULE											
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS					
*LSR-36	-	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 3,5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-NB					
LSR-37	219	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 5)	TRENCH	LTG CCT FROM DISTRIBUTION CABINET LR-NB					

\* CONTINUED FROM SHEET LI-08, LSR DISTANCE SHOWN ON LI-08



LIGHTING DISTRIBUTION CABINET LC-01 AND 3 PHASE CIRCUITS 1, 3 AND 5 ARE BEING PROVIDED UNDER CONTRACT T200811301.

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

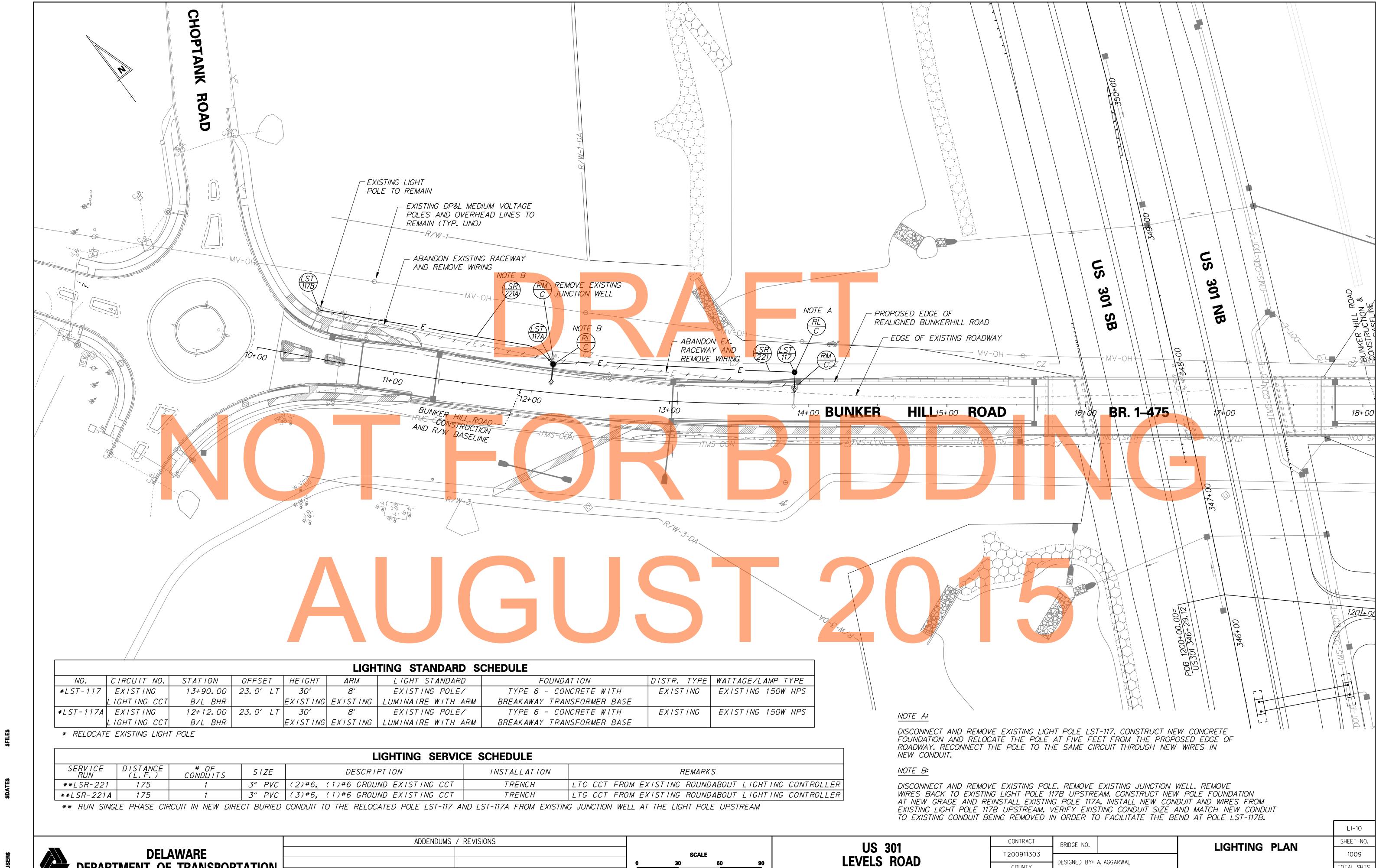
CONTRACT BRIDGE NO. T200911303 DESIGNED BY: A. AGGARWAL COUNTY CHECKED BY: D.L.BAKER NEW CASTLE

LIGHTING PLAN

1008 TOTAL SHTS. 1256

LI-09

SHEET NO.



COUNTY

NEW CASTLE

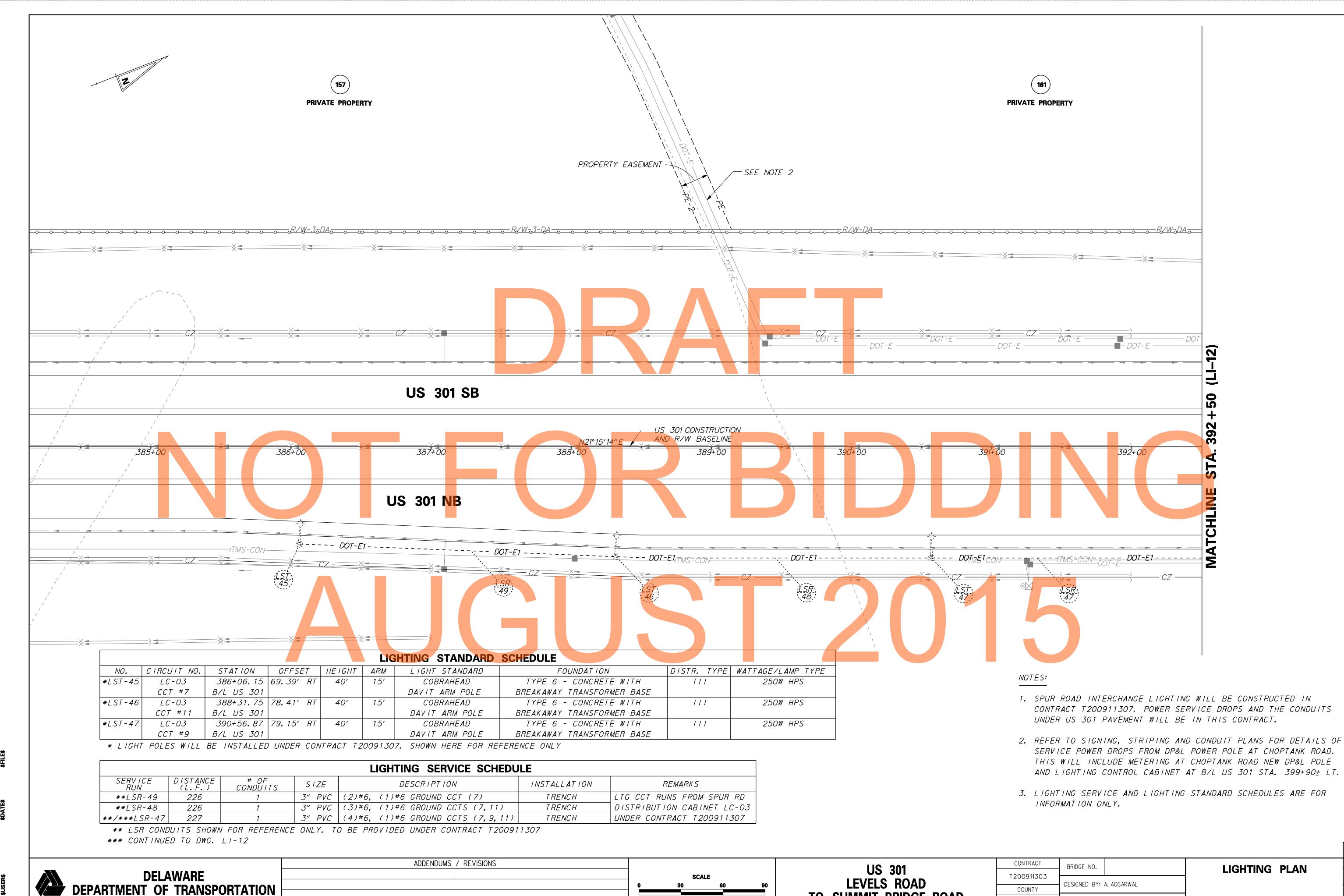
CHECKED BY: D. L. BAKER

TO SUMMIT BRIDGE ROAD

TOTAL SHTS.

1256

**DEPARTMENT OF TRANSPORTATION** 



TO SUMMIT BRIDGE ROAD

CHECKED BY: D.L.BAKER

NEW CASTLE

LI-11

SHEET NO.

1010

TOTAL SHTS.

1256

	LIGHTING STANDARD SCHEDULE										
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE		
*LST-36	LC-03	396+56.15	70.75′ LT	40'	15′	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT #3	B/L US 301				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				
*LST-37	LC-03	398+81.15	79.75′ LT	40'	15′	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT #1	B/L US 301				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				
*LST-48	LC-03	<i>392+83.45</i>	79.15′ RT	40'	15′	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT #7	B/L US 301				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				
*LST-49	LC-03	<i>395+08.52</i>	79.15′ RT	40'	15′	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT #11	B/L US 301				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				
*LST-50	LC-03	79+71.27	28.15′ RT	40'	15′	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT #9	B/L RAMP G				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				
*LST-51	LC-03	81+84.45	28.15′ RT	40'	15′	COBRAHEAD	TYPE 6 - CONCRETE WITH	111	250W HPS		
	CCT #7	B/L RAMP G				DAVIT ARM POLE	BREAKAWAY TRANSFORMER BASE				



\*\* CONTINUED FROM DWG. LI-11, LSR DISTANCE SHOWN ON LI-11

\*\*\* CONTINUED TO DWG. LI-13

**DELAWARE** 

**DEPARTMENT OF TRANSPORTATION** 

\*\*\* EMPTY CONDUITS AND JUNCTION WELLS TO BE INSTALLED UNDER THIS CONTRACT, WIRING TO BE INSTALLED UNDER T200911207

ADDENDUMS / REVISIONS

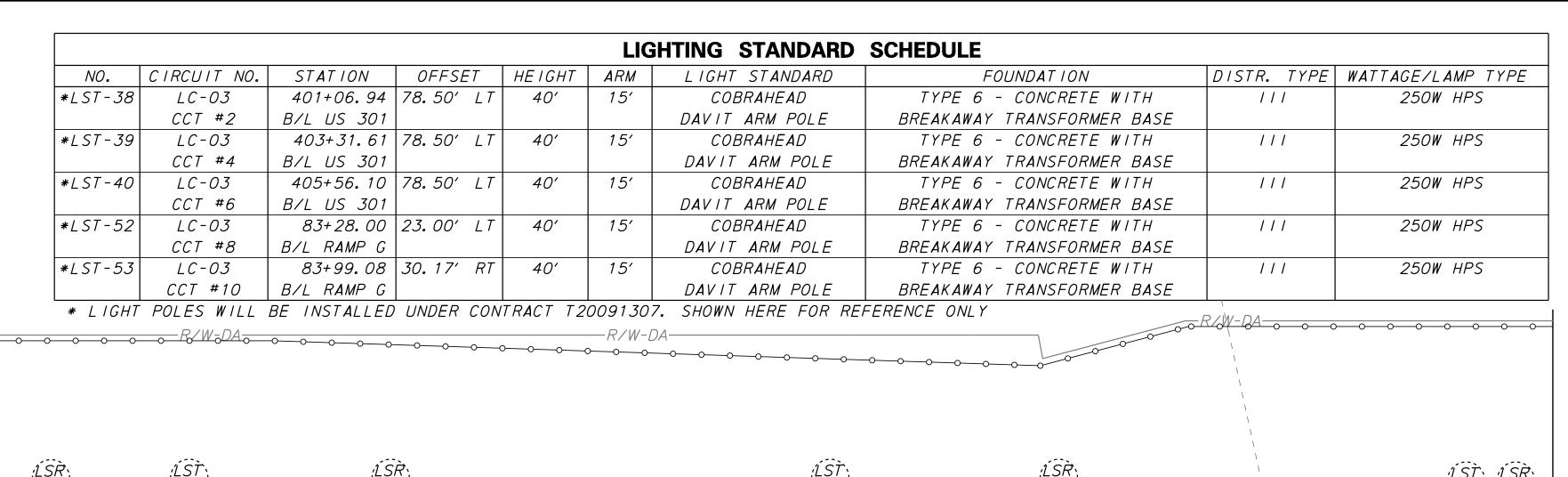
US 301 **LEVELS ROAD** TO SUMMIT BRIDGE ROAD

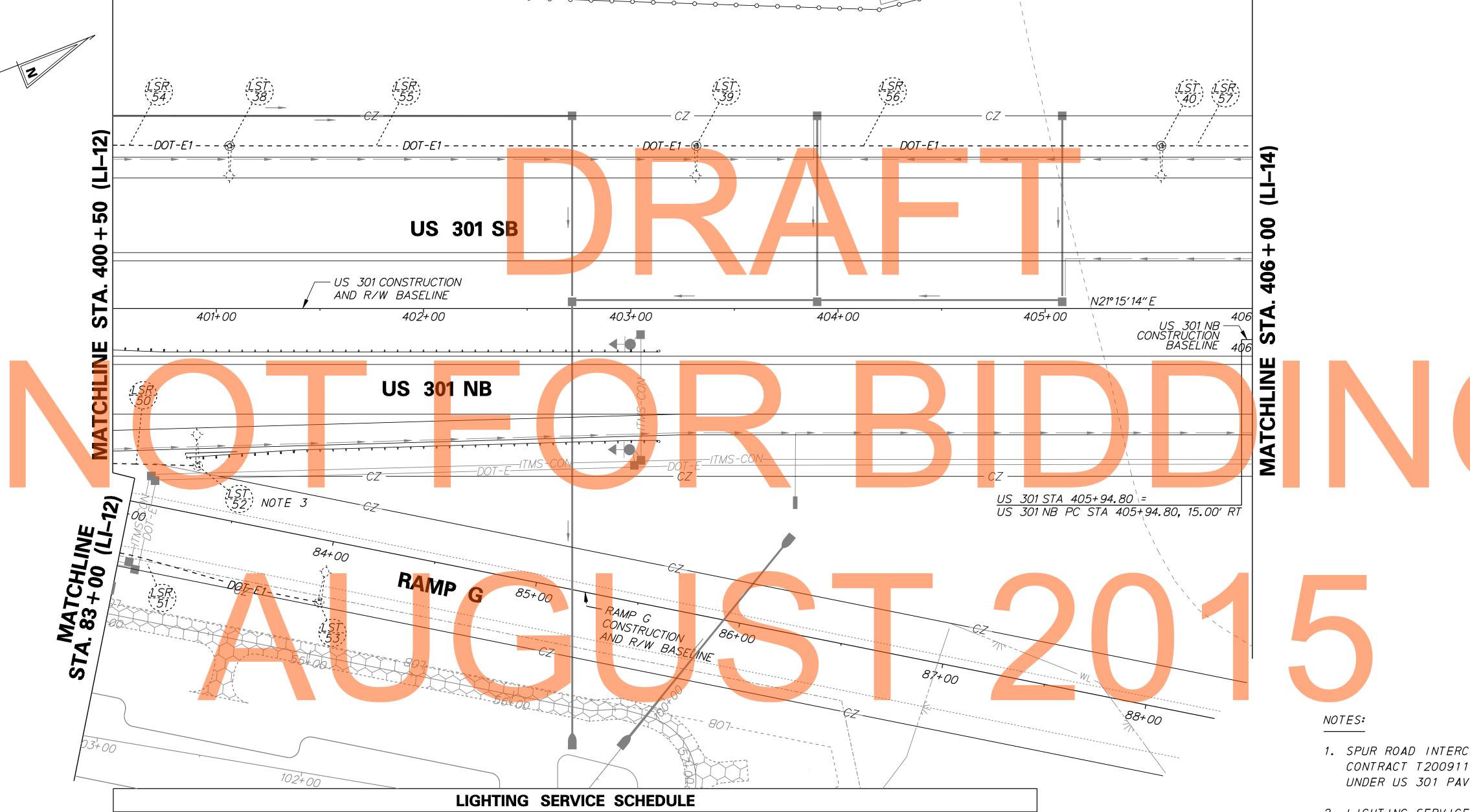
SERVICE FROM CHOPTANK ROAD.

CONTRACT BRIDGE NO. T200911303 DESIGNED BY: A. AGGARWAL COUNTY CHECKED BY: D. L. BAKER NEW CASTLE

LIGHTING PLAN

LI-12 SHEET NO. TOTAL SHTS. 1256





				LIGHTING SERVICE SCHEDULE		
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*/***LSR-50	-	1	3" PVC	(2)#6, (1) #6 GROUND (CCT 8)	TRENCH	LTG CCT RUNS FROM
*/***LSR-51	_	1	3" PVC	(2)#6, (1) #6 GROUND (CCT 10)	TRENCH	SPUR RD DISTRIBUTION
*/***LSR-54	_	1	3" PVC	(4)#6, (1) #6 GROUND (CCTS 2,4,6)	TRENCH	CABINET LC-03 UNDER
*LSR-55	225	1	3" PVC	(4)#6, (1) #6 GROUND (CCTS 2,4,6)	TRENCH	CONTRACT T200911307
*LSR-56	225	1	3" PVC	(4)#6, (1) #6 GROUND (CCTS 2,4,6)	TRENCH	
*/**/ SR-57	225	1	3" PVC	(4)#6. (1) #6 GROUND (CCTS 2.4.6)	TRENCH	

- \* LSR CONDUITS SHOWN FOR REFERENCE ONLY. TO BE PROVIDED UNDER CONTRACT T200911307
- \*\* CONTINUED TO DWG. LI-14
- \*\*\* CONTINUED FROM DWG. LI-12, LSR DISTANCE SHOWN ON LI-12

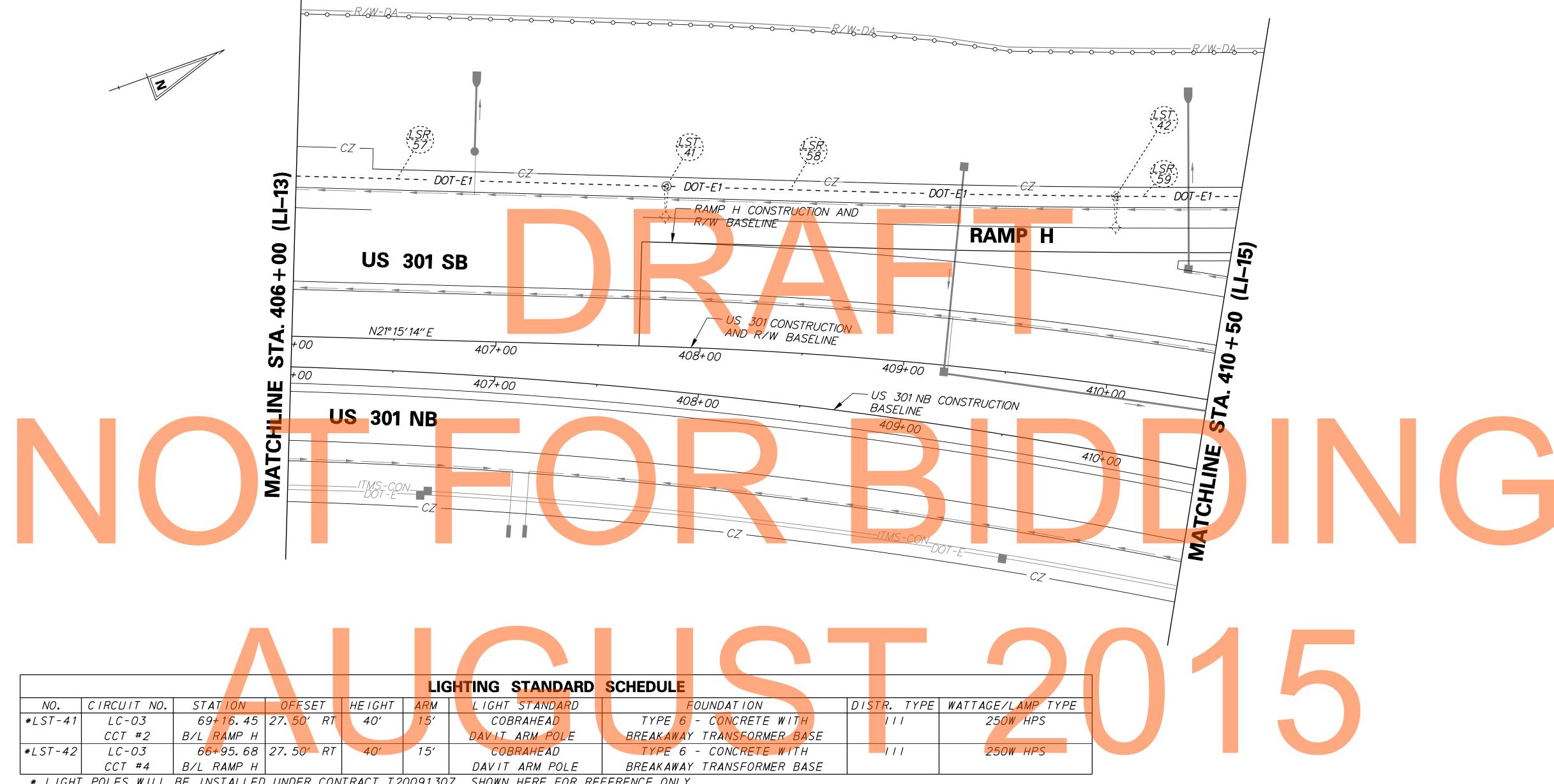
- 1. SPUR ROAD INTERCHANGE LIGHTING WILL BE CONSTRUCTED IN CONTRACT T200911307. POWER SERVICE DROPS AND THE CONDUITS UNDER US 301 PAVEMENT WILL BE IN THIS CONTRACT.
- 2. LIGHTING SERVICE AND LIGHTING STANDARD SCHEDULES ARE FOR INFORMATION ONLY.
- 3. COORDINATE WITH GUARD RAIL CONTRACTOR FOR POST SPACING TO BE 3'-11/2" C/C.

LI-13 ADDENDUMS / REVISIONS SHEET NO. CONTRACT LIGHTING PLAN **US 301** BRIDGE NO. **DELAWARE** 1012 T200911303 LEVELS ROAD DESIGNED BY: A. AGGARWAL **DEPARTMENT OF TRANSPORTATION** COUNTY TOTAL SHTS. TO SUMMIT BRIDGE ROAD CHECKED BY: D. L. BAKER 1256 NEW CASTLE









\* LIGHT POLES WILL BE INSTALLED UNDER CONTRACT T20091307. SHOWN HERE FOR REFERENCE ONLY

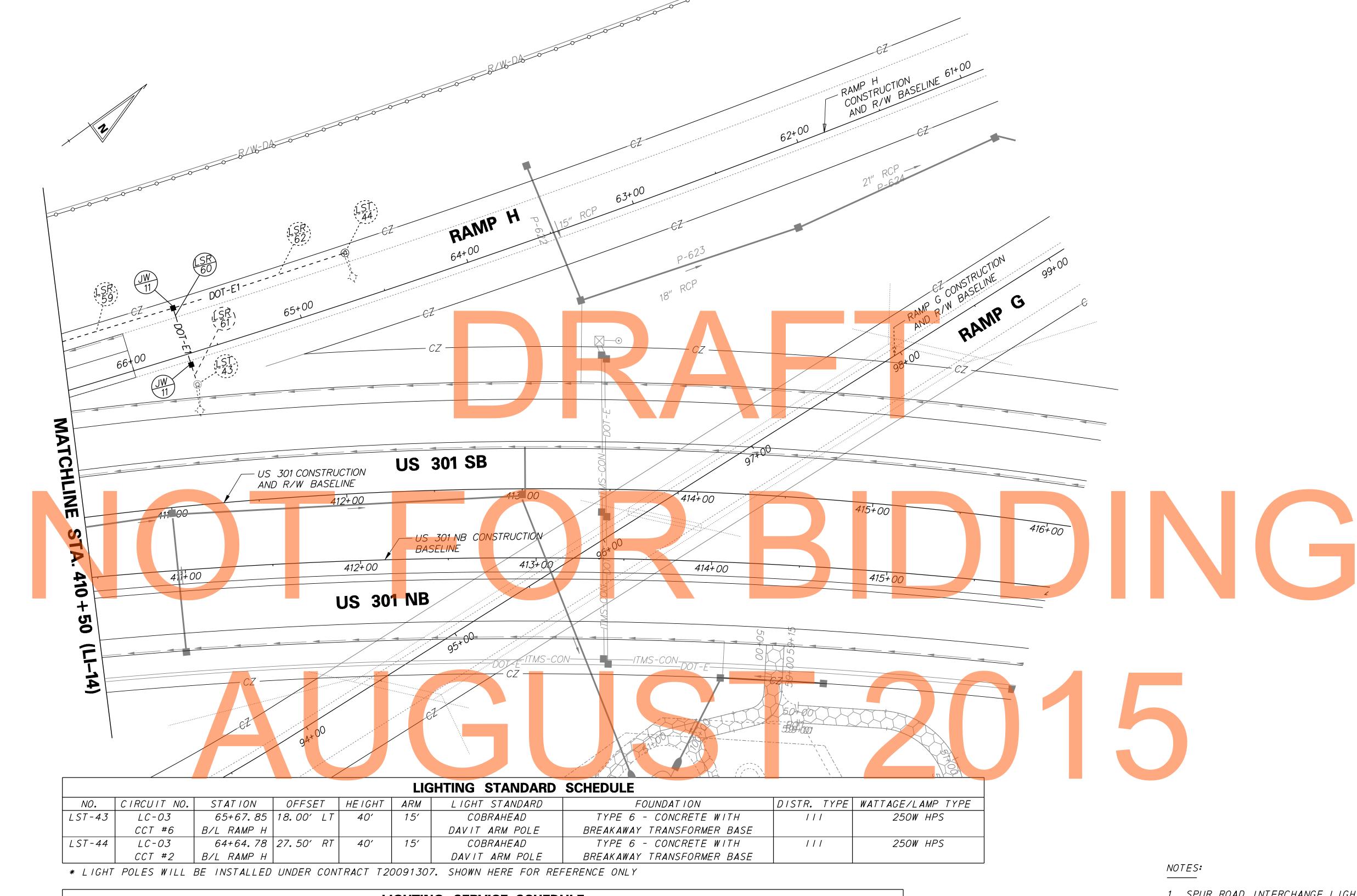
	LIGHTING SERVICE SCHEDULE											
SERV I CE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS						
*/**LSR-57	-	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2,4,6)	TRENCH	LTG CCT RUNS FROM SPUR RD						
*LSR-58	221	1	3" PVC	(4)#6, (1)#6 GROUND (CCTS 2,4,6)	TRENCH	DISTRIBUTION CABINET LC-03						
*/***LSR-59	128	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 2,6)	TRENCH	UNDER CONTRACT T200911307						

- \* LSR CONDUITS SHOWN FOR REFERENCE ONLY. TO BE PROVIDED UNDER CONTRACT T200911307
- \*\* CONTINUED FROM DWG. LI-13, LSR DISTANCE SHOWN ON LI-13
- \*\*\* CONTINUED TO DWG. LI-15

# NOTES:

- 1. SPUR ROAD INTERCHANGE LIGHTING WILL BE CONSTRUCTED IN CONTRACT T200911307. POWER SERVICE DROPS AND THE CONDUITS UNDER US 301 PAVEMENT WILL BE IN THIS CONTRACT.
- 2. LIGHTING SERVICE AND LIGHTING STANDARD SCHEDULES ARE FOR INFORMATION ONLY.

								LI-14
	ADDENDUMS / REVISIONS				US 301	CONTRACT BRIDGE NO.	LIGHTING PLAN	SHEET NO.
DELAWARE		_	SCALE			T200911303	LIGITING FLAN	1013
DEPARTMENT OF TRANSPORTATION		•	30 60	90	LEVELS ROAD	COUNTY DESIGNED BY: A. AGGARWAL		TOTAL SHTS.
		-	FEET		TO SUMMIT BRIDGE ROAD	NEW CASTLE CHECKED BY: D. L. BAKER		1256



	LIGHTING SERVICE SCHEDULE														
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS									
*/***LSR-59	_	1	3" PVC	(3)#6, (1)#6 GROUND (CCTS 2,6)	TRENCH	LTG CCT RUNS FROM SPUR RD									
**LSR-60	34	2(ONE SPARE)	3" PVC	(2)#6, (1)#6 GROUND (CCT 6)	TRENCH (PROP. PVMT)	DISTRIBUTION CABINET LC-03									
*LSR-61	12	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 6)	TRENCH	UNDER CONTRACT T200911307									
*LSR-62	103	1	3" PVC	(2)#6, (1)#6 GROUND (CCT 2)	TRENCH										

- \* LSR CONDUITS SHOWN FOR REFERENCE ONLY. CONDUIT AND WIRING TO BE PROVIDED UNDER CONTRACT T200911307
- \*\* EMPTY CONDUIT AND JUNCTION WELL TO BE INSTALLED UNDER THIS CONTRACT, WIRES TO BE INSTALLED UNDER CONTRACT T200911307

\*\*\* CONTINUED FROM DWG. LI-14, LSR DISTANCE SHOWN ON LI-14

- 1. SPUR ROAD INTERCHANGE LIGHTING WILL BE CONSTRUCTED IN CONTRACT T200911307. POWER SERVICE DROPS AND THE CONDUITS UNDER US 301 PAVEMENT WILL BE IN THIS CONTRACT.
- 2. LIGHTING SERVICE AND LIGHTING STANDARD SCHEDULES ARE FOR INFORMATION ONLY.

LIGHTING PLAN

LI-15

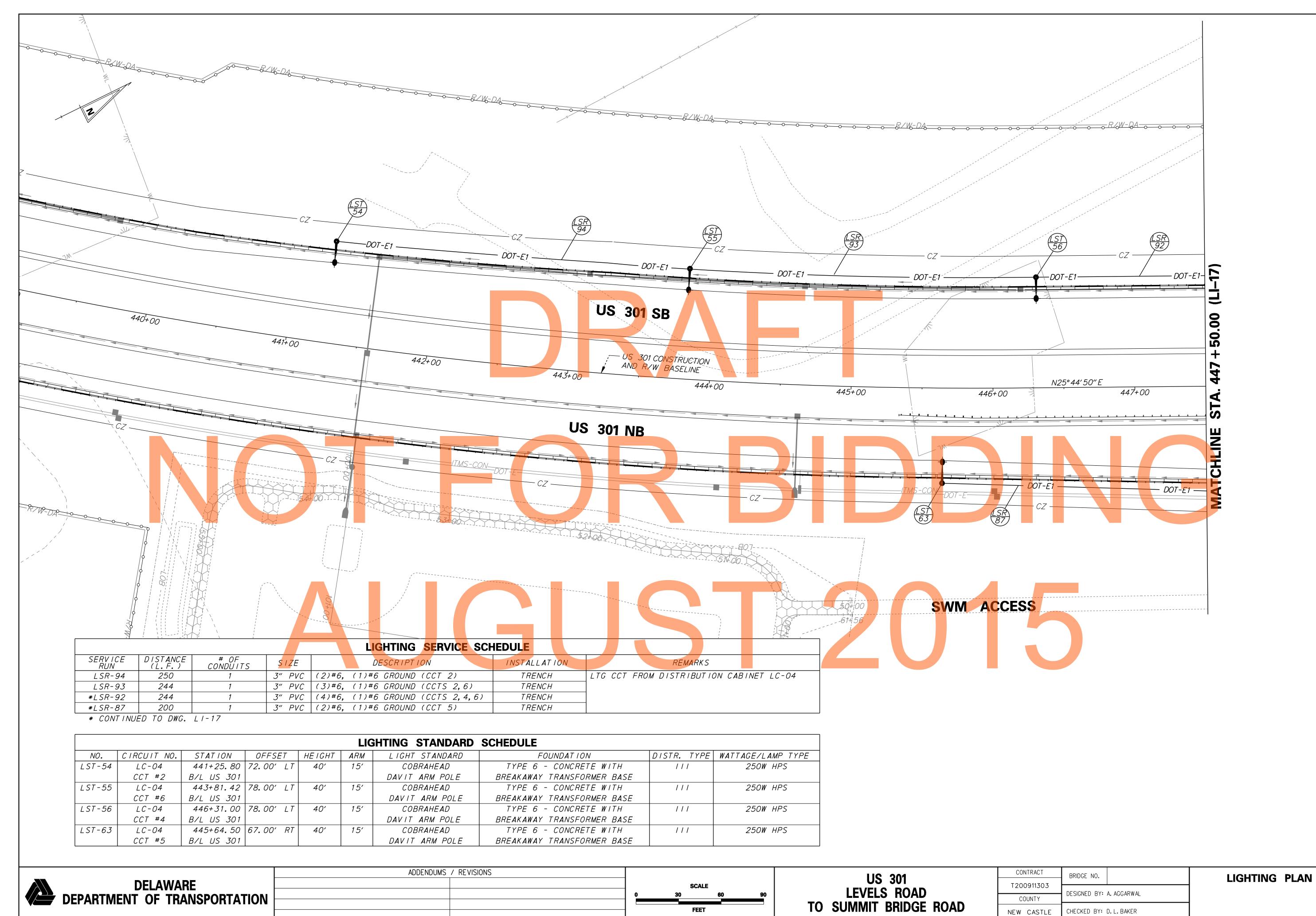
SHEET NO.

TOTAL SHTS.

1256

DELAWARE
DEPARTMENT OF TRANSPORTATION

| SCALE | SCALE | SCALE | SCALE | SUS 301 | SUS



LI-16

SHEET NO.

1015

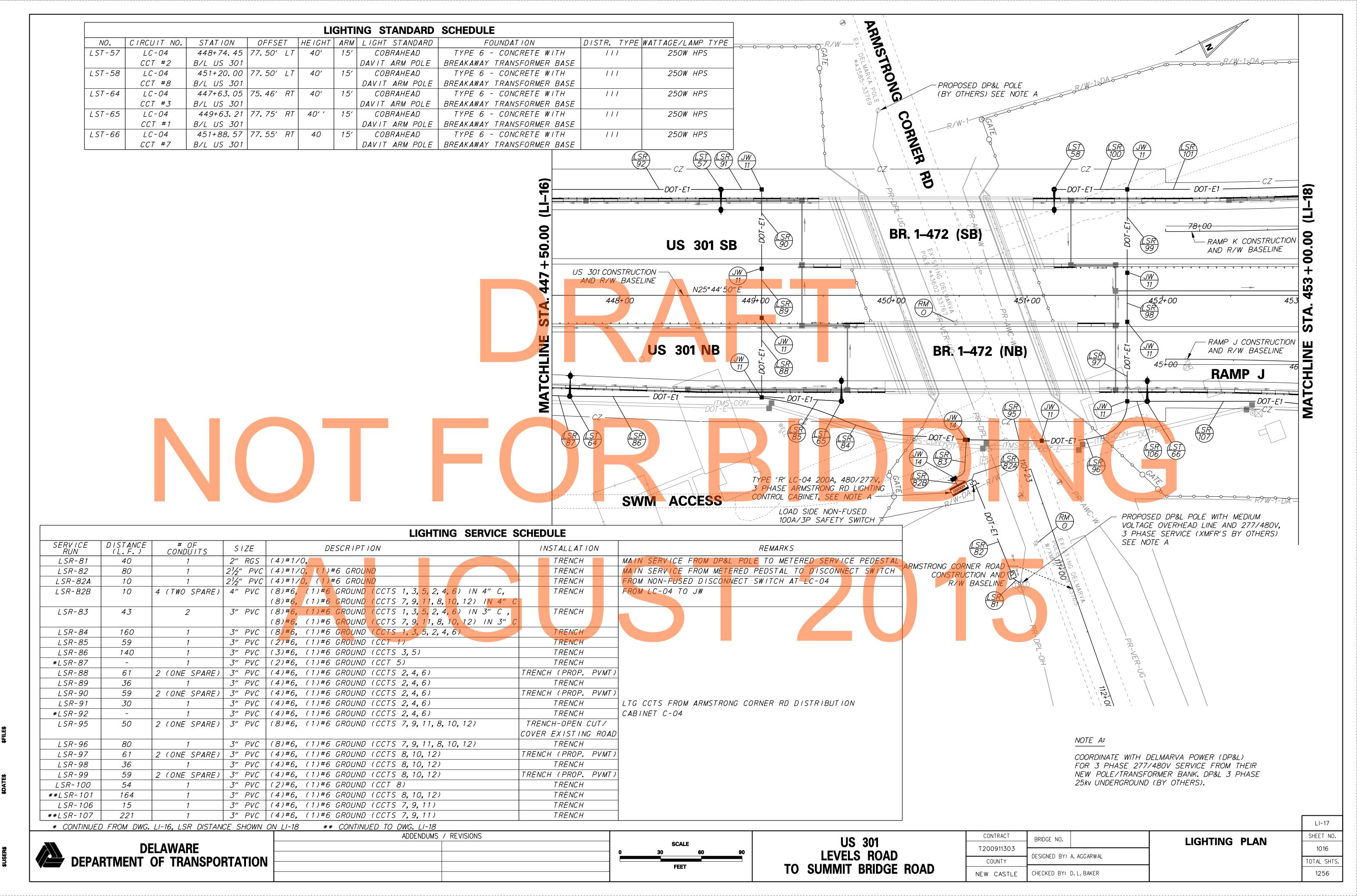
TOTAL SHTS.

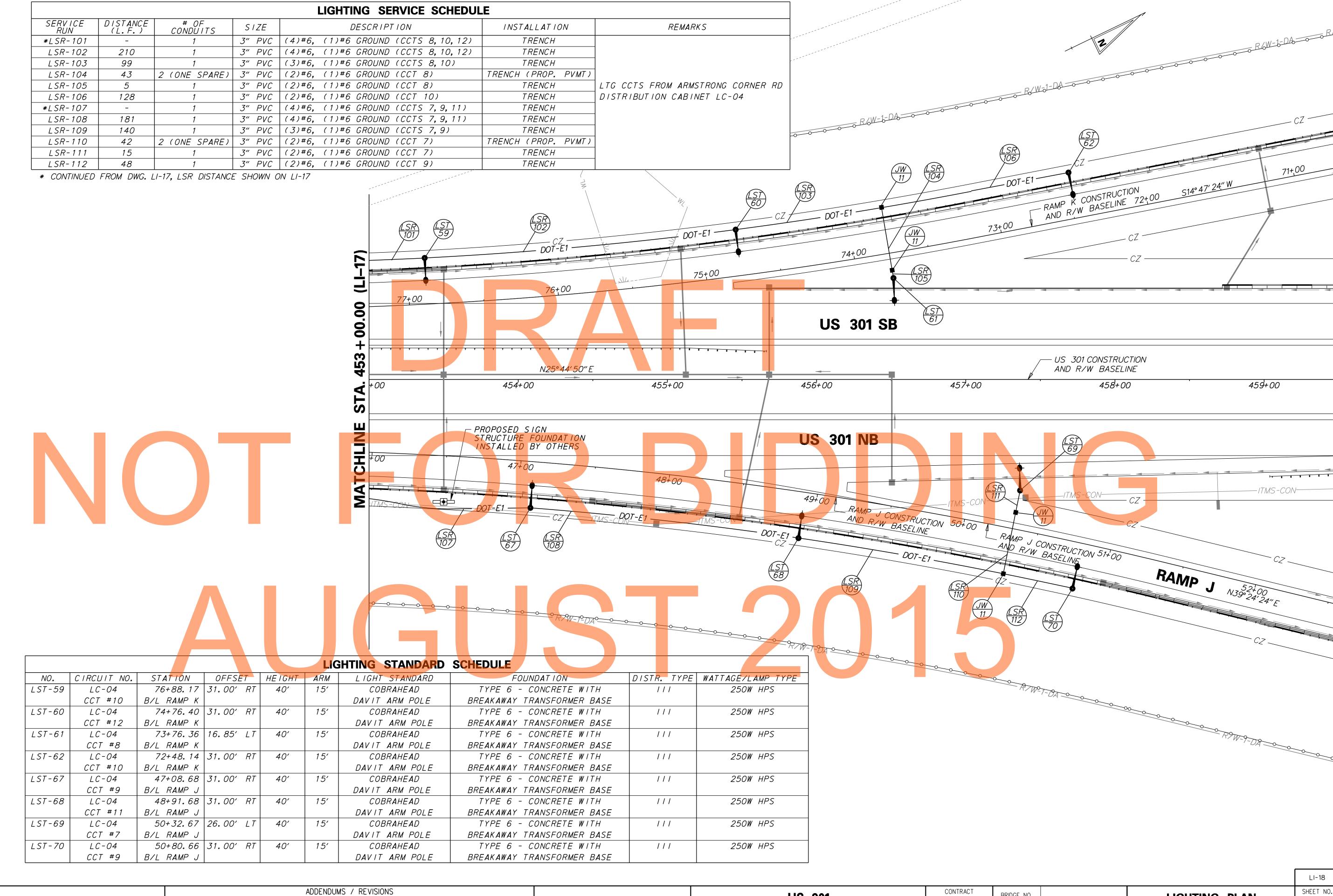
1256

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SDATES

1

DELAWARE DEPARTMENT OF TRANSPORTATION

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD CONTRACT
BRIDGE NO.

T200911303

COUNTY

DESIGNED BY: A. AGGARWAL

NEW CASTLE
CHECKED BY: D. L. BAKER

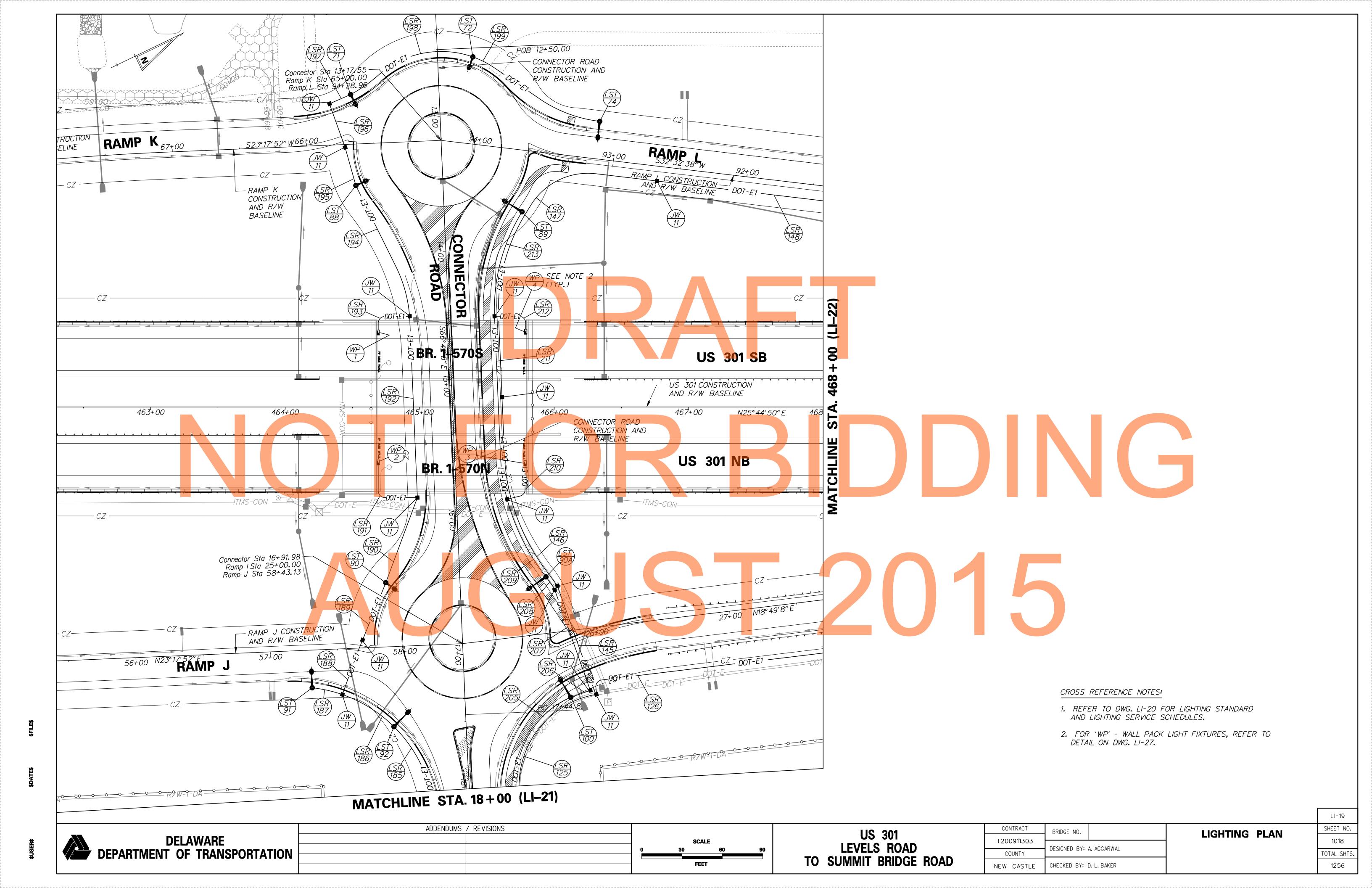
LIGHTING PLAN

SHEET NO.

1017

TOTAL SHTS.

1256



DELAWARE DEPARTMENT OF TRANSPORTATION
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					LIGHTING SERVICE SCHEDULE	
SERVICE RUN	DISTANCE (L.F.)	# OF CONDUITS	SIZE	DESCRIPTION	INSTALLATION	REMARKS
*LSR-125	-	1	3" PVC	(4)#4, (4)#4,(1)#4 GROUND, CCTS (1,3,5,2,4,6)	TRENCH	LTG CCTS FROM 277/480V LTG DISTRIBUTION CABINET
**LSR-126	244	1	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 1,3,5)	TRENCH	LC-05 (N-W CORNER)
LSR-145	86	2 (ONE SPARE)	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 2,4,6)	TRENCH	
LSR-146	150	1	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 2,4,6)	TRENCH	
LSR-147	250	1	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 2,4,6)	TRENCH	
**LSR-148	175	1	3" PVC	(4)#4, (1)#4 GROUND, (CCTS 2,4,6)	TRENCH	
*LSR-185	-	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-186	46	1	3" PVC	(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	LTG CCTS FROM 240/120V LTG DISTRIBUTION CABINET
LSR-187	23	1	3" PVC	(2)#6, (1)#6 GROUND, (CCT 8)	TRENCH	LC-06 (SW CORNER)
LSR-188	44	2 (ONE SPARE)		(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-189	46	1		(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-190	68	1		(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-191	65	1		(2)#6, (1)#6 GROUND, (CCTS 8)	TRENCH IN GRADE AND THEN EXPOSED CONDUIT TO WALL FIXTURE ALONG MSE WALL	
LSR-192	135	1		(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-193	49	1		(2)#6, (1)#6 GROUND, (CCT 6)	TRENCH IN GRADE AND THEN EXPOSED CONDUIT TO WALL FIXTURE ALONG MSE WALL	
LSR-194	110	1		(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-195	30	2 (ONE SPARE)	-	(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-196	35	2 (ONE SPARE)		(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-197	18	1		(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-198	101	1		(3)#4, (1)#4 GROUND, (CCTS 6,8)	TRENCH	
LSR-199	107	1		(2)#4, (1)#4 GROUND, (CCT 6)	TRENCH	
*LSR-205		1		(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
L SR - 206	+	1	-	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-207	80	1	-	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-208	12	1		(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	_
LSR-209	65	1		(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH	
LSR-210	46	1		(2)#6, (1)#6 GROUND, (CCT 11)	TRENCH IN GRADE AND THEN EXPOSED CONDUIT TO WALL FIXTURE ALONG MSE WALL	_
LSR-211	136	1	-	(3)#4, (1)#4 GROUND, (CCTS 9, 11)	TRENCH TO WALL TO WALL TO WALL TO WALL TO WALL	_
LSR-212		1		(2)#6, (1)#6 GROUND, (CCT 9)	TRENCH IN GRADE AND THEN EXPOSED CONDUIT TO WALL FIXTURE ALONG MSE WALL	_
LSR-213	85	1	3" PVC	(2)#4, (1)#4 GROUND, (CCT 11)	TRENCH	

\* CONTINUED FROM DWG. LI-21 \*\* CONTINUED TO DWG. LI-22

		LIGHTIN	IG STANDARD SCHEDULE				
NO. CIRCUIT NO. STATION	OFFSET H <mark>EI</mark> GH		LIGHT STANDARD	FOUNDATION	DISTR. TYPE	WATTAGE/LAMP TYPE	
LST-71 LC-06 (240/120V)-CCT 6 65+65.80 B/L RAMP K	36. 90' RT 30'	8'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
LST-72 LC-06 (240/120V)-CCT 8 94+12.87 B/L RAMP L	64. 40' RT 30'	8′	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE 111	150W HPS	
LST-74 LC-06-240/120V-CCT 6 93+13.50 B/L RAMP L	28. 00' RT 30'	12'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
LST-88 LC-06 240/120V-CCT 8 65+75.00 B/L RAMP K	<i>30. 83′ LT 30′</i>	8'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
LST-89 LC-06-240/120V-CCT 11 93+61.20 B/L RAMP L	49.60' LT 30'	15'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
LST-90 LC-06-240/120V-CCT 6 57+88.00 B/L RAMP J	47.70' LT 30'	8'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
LST-90A LC-06-240/120V-CCT 9 25+67.50 B/L RAMP I	41.80' LT 30'	15'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
LST-91 LC-06-240/120V-CCT 8 57+30.00 B/L RAMP J	28, 00' RT 30'	12'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
LST-92 LC-06-240/120V-CCT 6 57+89.00 B/L RAMP J	59. 50' RT 30'	15'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
LST-100 LC-240/120V-CCT 11 25+75.00 B/L RAMP I	49. 30' RT 30'	15'	COBRAHEAD DAVIT ARM POLE TYPE 6	- CONCRETE WITH BREAKAWAY XMFR BA.	SE III	150W HPS	
WP-1 LC-240/120V-CCT 6 14+58.25 B/L CR	13'	NA	WALL PACK	WALL MOU <mark>NT</mark> FLOODLIGHT		200W HPS	
WP-2 LC-240/120V-CCT 8 15+54.70 B/L CR	13'	NA	WALL PACK	WALL MOUNT FLOODLIGHT		200W HPS	
WP-3 LC-240/120V-CCT 11 15+60.0 <mark>0 B/L CR</mark>	13'	NA	WALL PACK	WALL MOUNT FLOODLIGHT		200W HPS	
WP-4 LC-240/120V-CCT 9 14+62.40 B/L CR	13'	NA	WALL PACK	WALL MOUNT FLOODLIGHT		200W HPS	

ADDENDUMS / REVISIONS

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD CONTRACT
BRIDGE NO.

T200911303

COUNTY

DESIGNED BY: A. AGGARWAL

CHECKED BY: D. L. BAKER

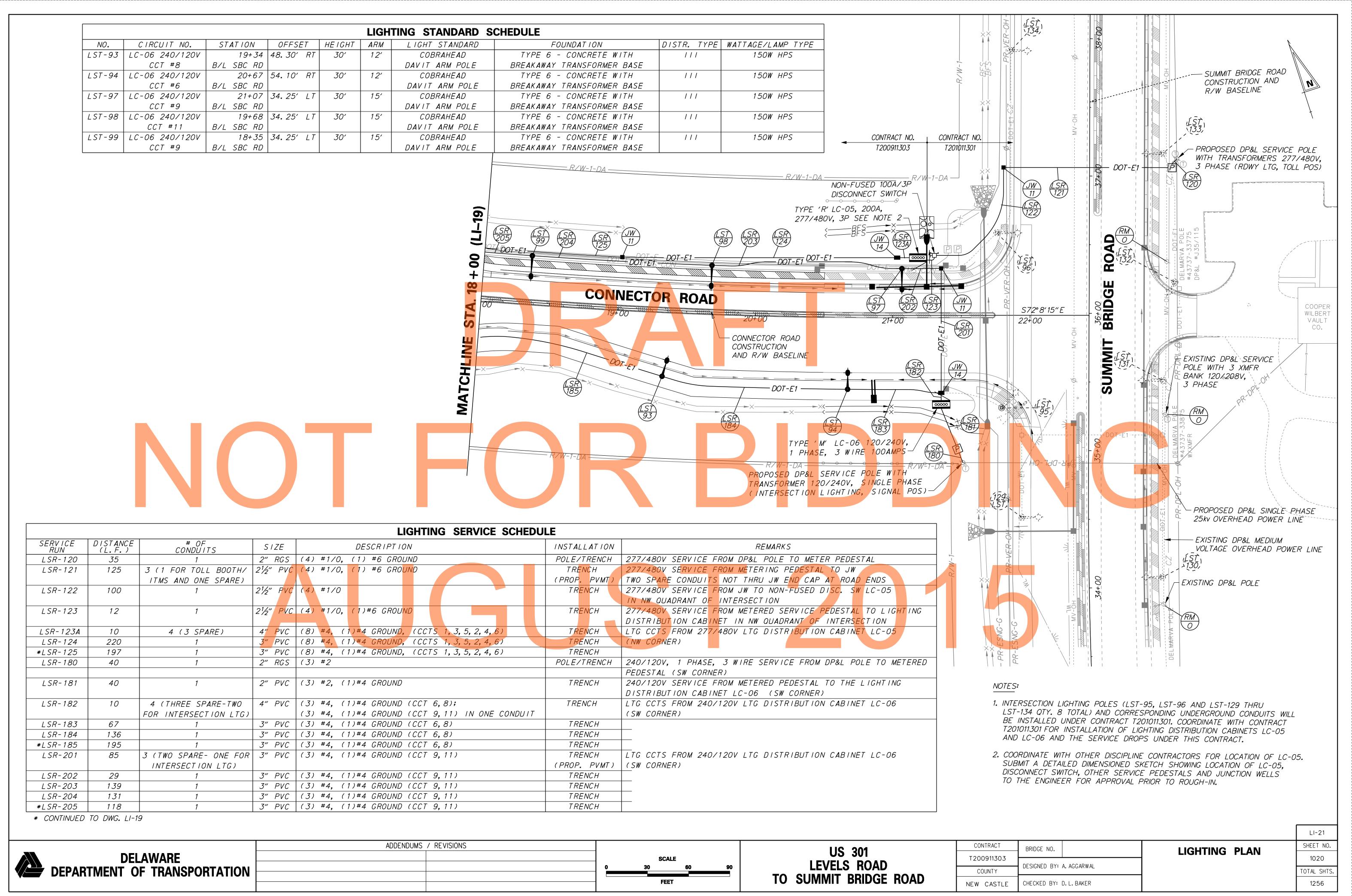
LIGHTING PLAN
LIGHTING SCHEDULES

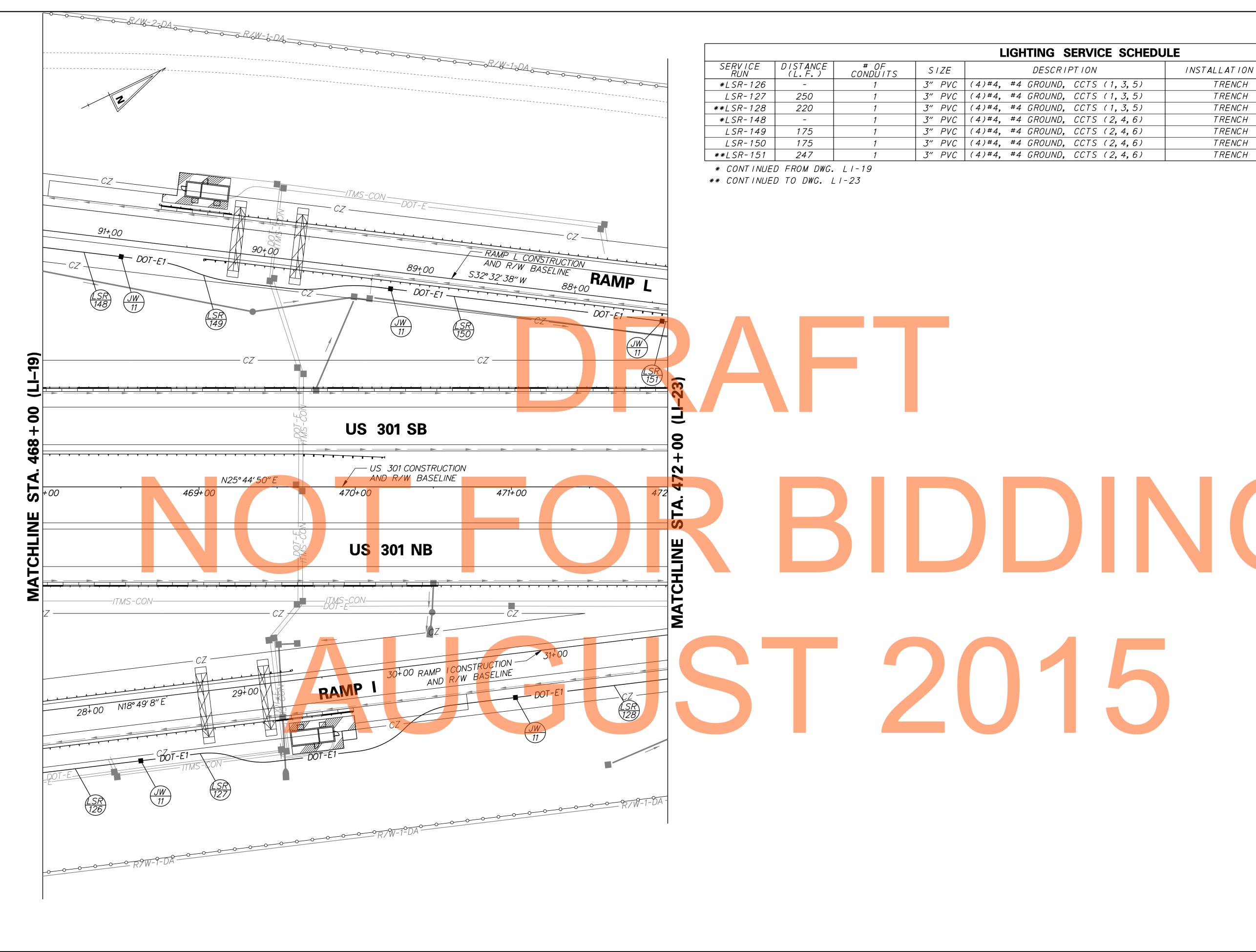
SHEET NO.
1019
TOTAL SHTS.
1256











ADDENDUMS / REVISIONS DELAWARE DEPARTMENT OF TRANSPORTATION

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT BRIDGE NO. T200911303 DESIGNED BY: A. AGGARWAL COUNTY CHECKED BY: D. L. BAKER NEW CASTLE

LIGHTING PLAN

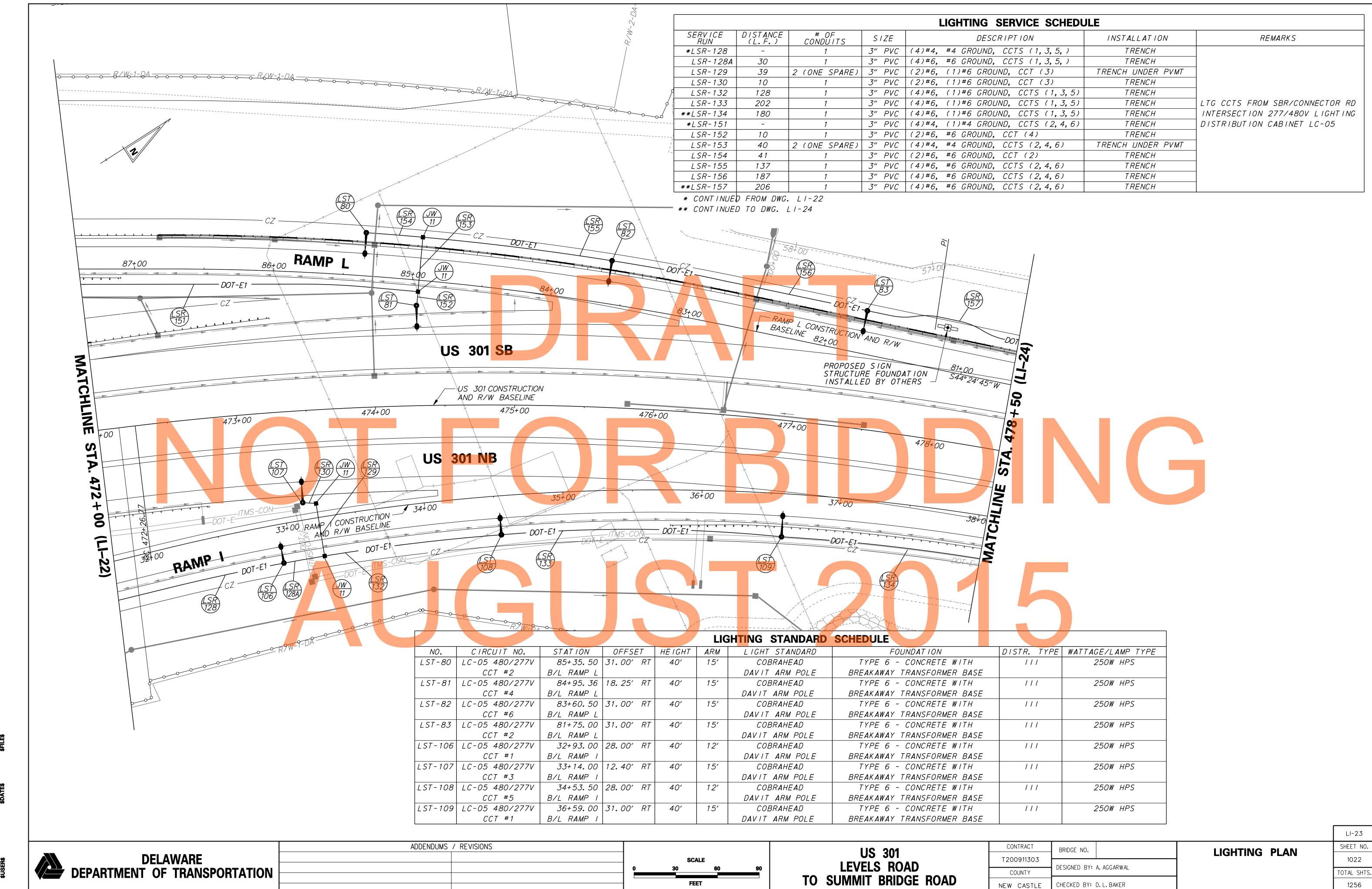
REMARKS

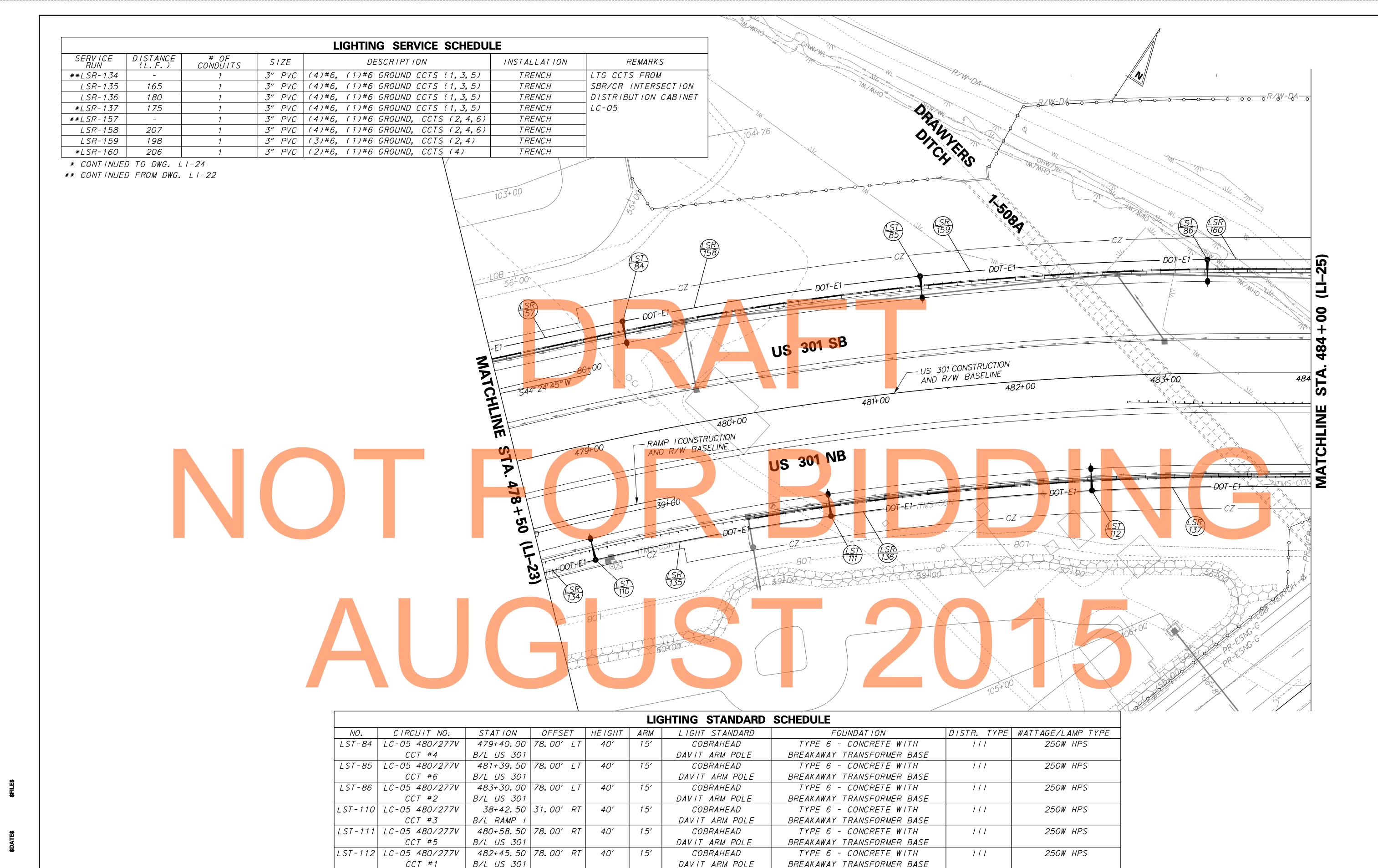
LTG CCTS FROM SBR/CONNECTOR RD

INTERSECTION LTG 277/480V

DISTRIBUTION CABINET LC-05

LI-22 SHEET NO. TOTAL SHTS. 1256





ATION
1

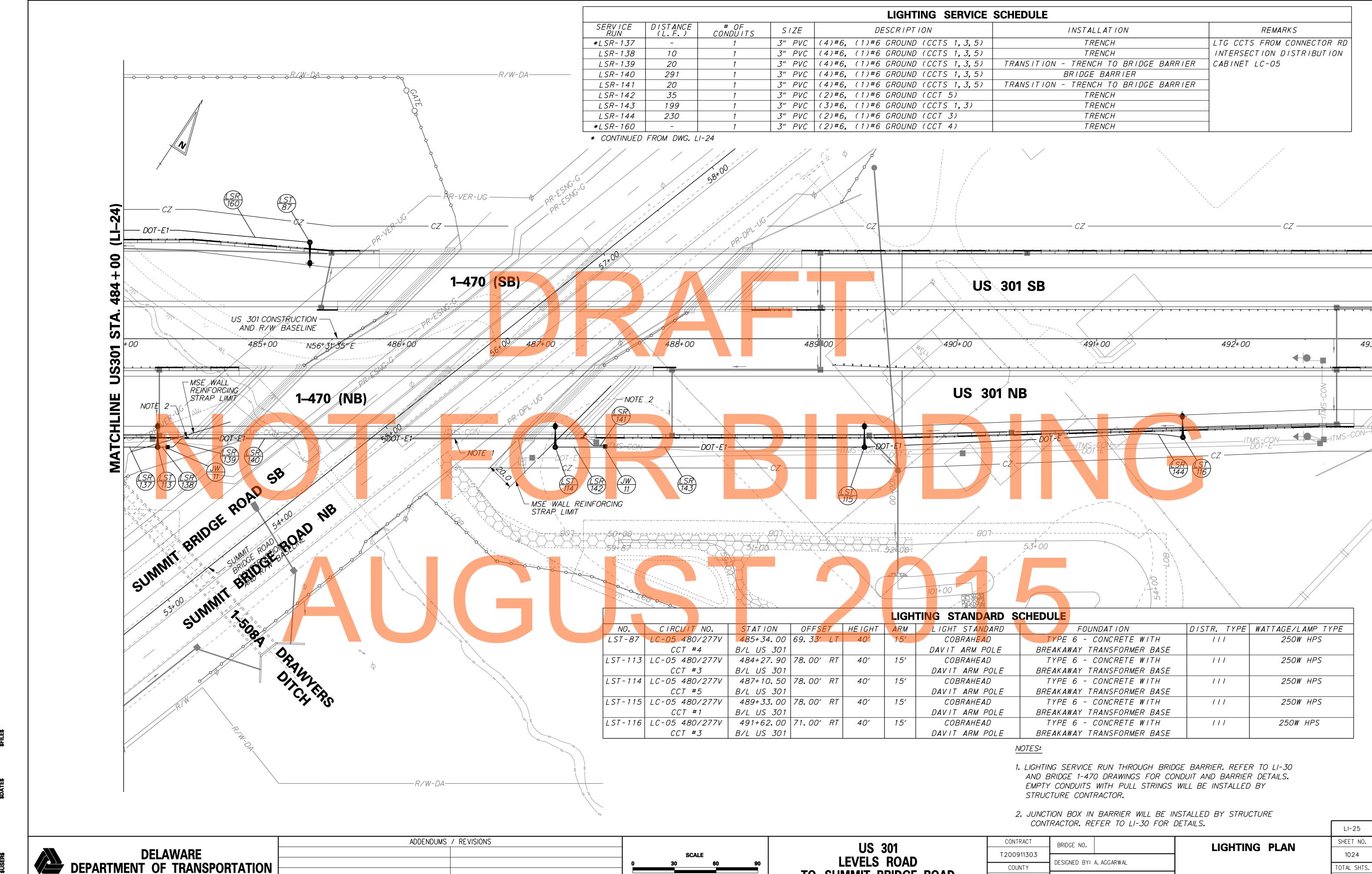
ADDENDUMS / REVISIONS

**US 301** LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT BRIDGE NO. T200911303 DESIGNED BY: A. AGGARWAL COUNTY CHECKED BY: D. L. BAKER NEW CASTLE

LIGHTING PLAN

LI-24 SHEET NO. 1023 TOTAL SHTS. 1256



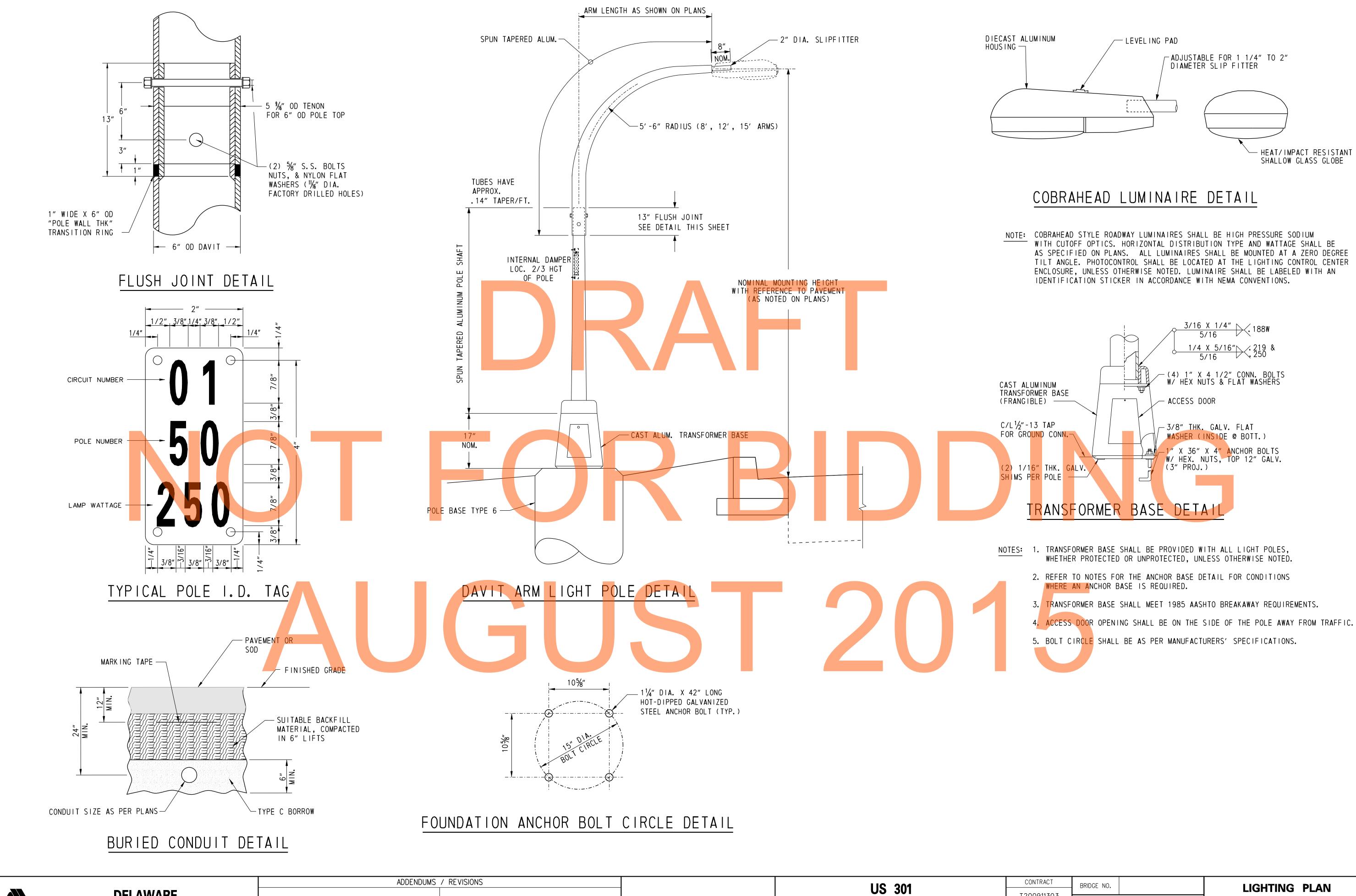
TO SUMMIT BRIDGE ROAD

NEW CASTLE

CHECKED BY: D. L. BAKER

1256

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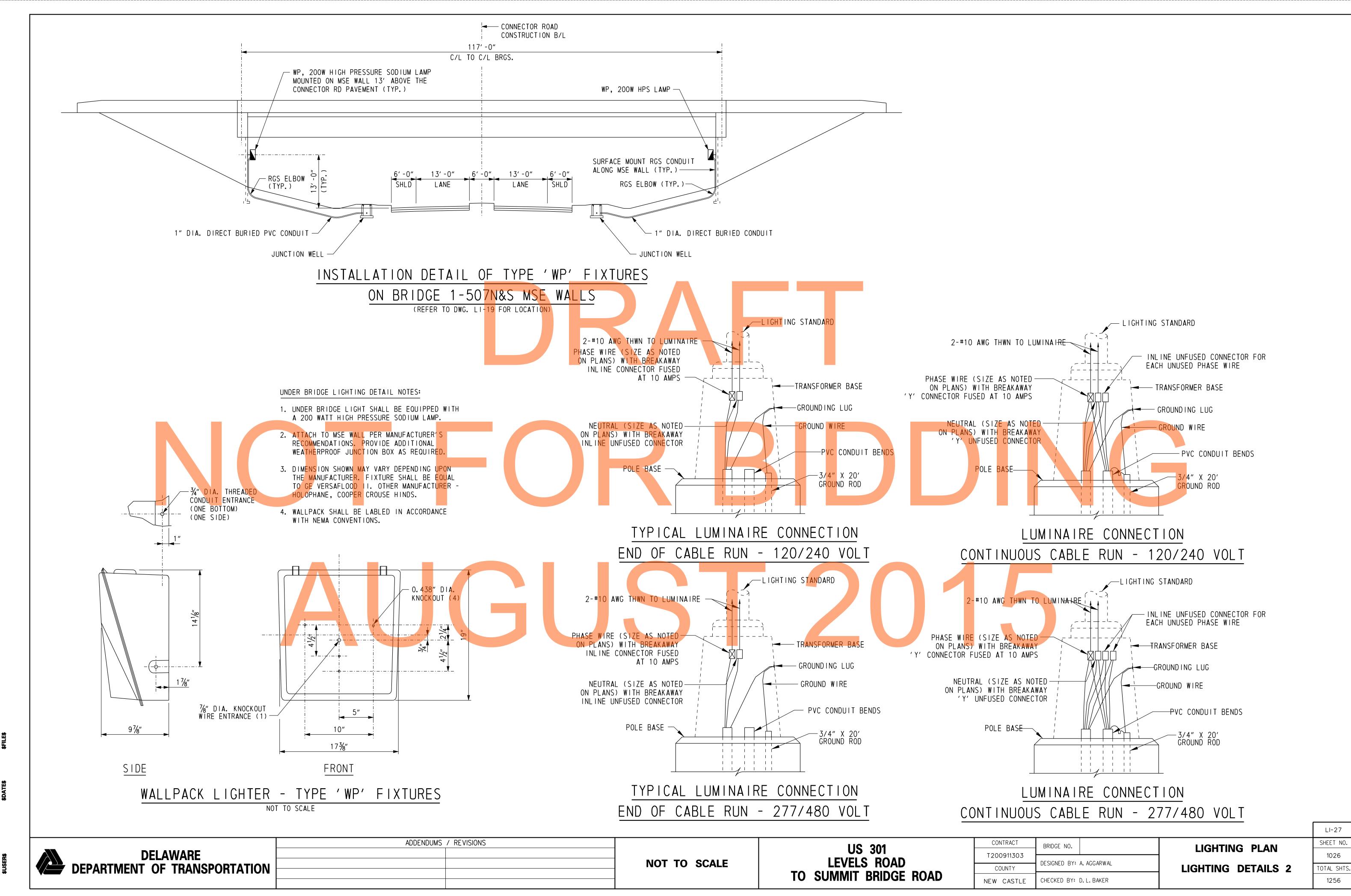
LI-26 SHEET NO. 1025 TOTAL SHTS. 1256

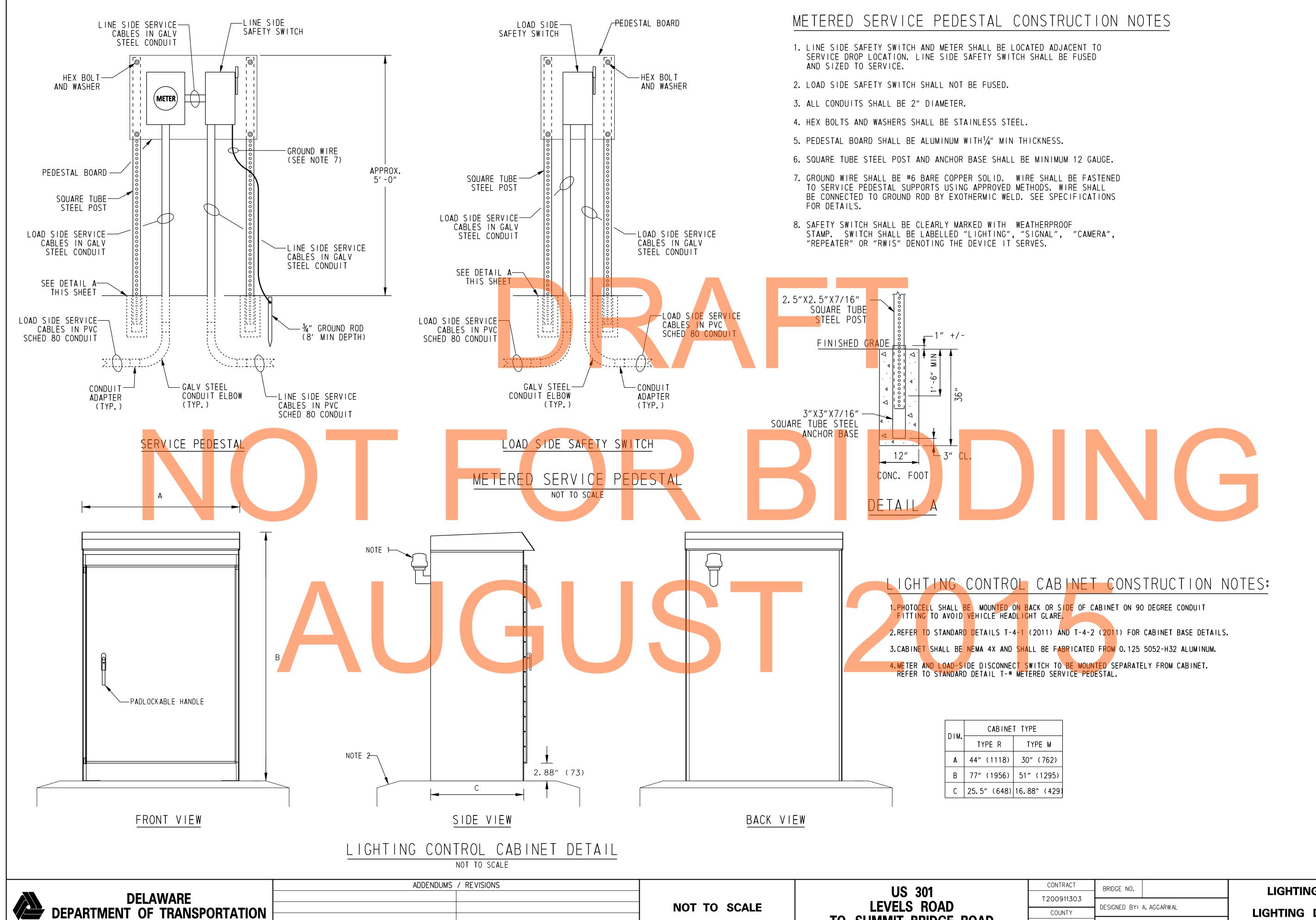
HEAT/IMPACT RESISTANT SHALLOW GLASS GLOBE

3/16 X 1/4" 188W

1/4 X 5/16" 219 & 250

LIGHTING PLAN **DELAWARE** T200911303 LEVELS ROAD NOT TO SCALE DESIGNED BY: A. AGGARWAL **DEPARTMENT OF TRANSPORTATION LIGHTING DETAILS 1** COUNTY TO SUMMIT BRIDGE ROAD CHECKED BY: D. L. BAKER NEW CASTLE



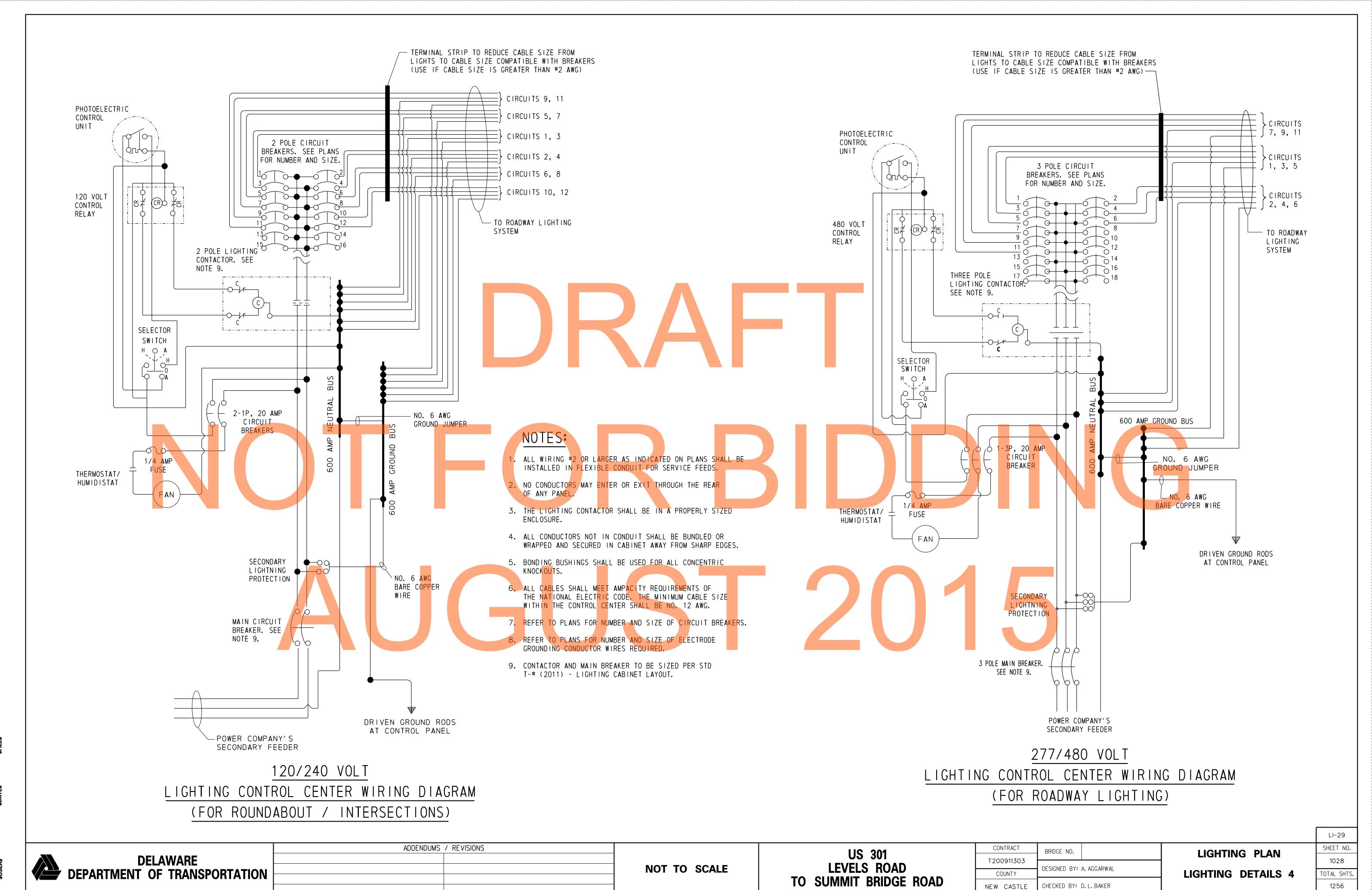


TO SUMMIT BRIDGE ROAD

COUNTY CHECKED BY: D. L. BAKER NEW CASTLE

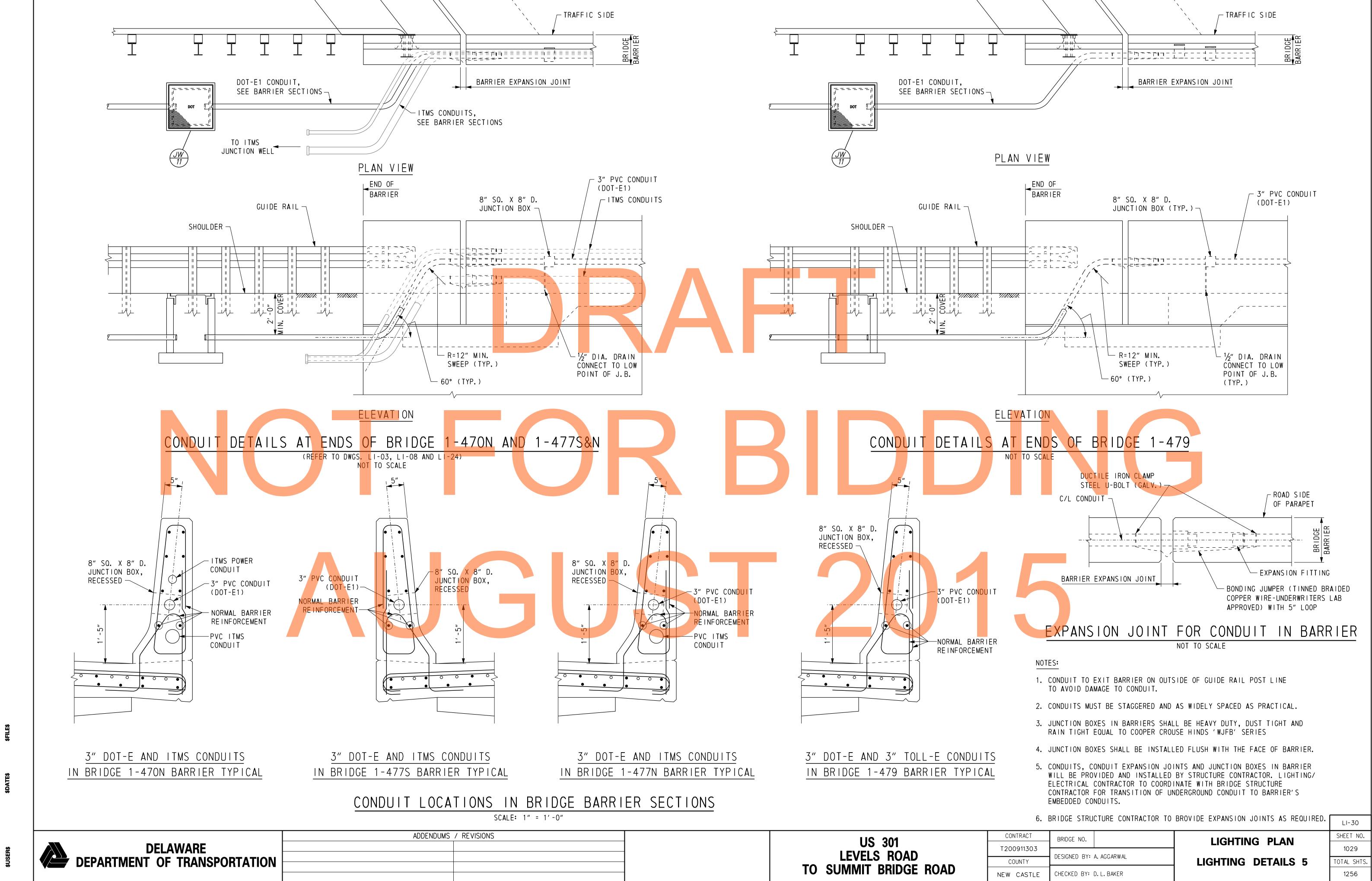
LIGHTING PLAN **LIGHTING DETAILS 3**  SHEET NO. TOTAL SHTS. 1256

LI-28



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PANELBOARD - SPUR ROAD LIGHTING CONTROL CENTER (TYPE '	′ R′	LC-03)	
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600 AMP BUS
200 AMP 3P CONTACTOR
LUMINAIRE VOLTAGE: 277 VOLTS 277/480V 3 PHASE, 4 WIRE + GND 200 AMP M.C.B.

CKT.	FOLLIBRIENT CERVED		IECTED OAD	PHASE		ICH CIRCUI BREAKERS	T	REMARKS	CKT.	FOULDWENT CEDVED	CONN	NECTED OAD	PHASE		ICH CIRCUI BREAKERS	T	REMARKS
NO.	EQUIPMENT SERVED	KW	AMPS	AND VOLTS	NUMBER OF POLES	FRAME SIZE	TRIP SIZE	NEMAINO	NO.	EQUIPMENT SERVED	KW	AMPS	AND VOLTS	NUMBER OF POLES	FR <b>AME</b> SIZE	TRIP SIZE	NEMANNS
1	LST-37	0.3	1.2	A/277				1-250W HPS	2	LST-38, LST-41, LST-44	0.9	3	1/277				
3	LST-36	0.3	1.2	B/277	3	100 <b>A</b>	20 <b>A</b>	1-250W HPS	4	LST-39, LST-42	0.6	1	1/277	3	20 <b>A</b>	20 <b>A</b>	
5	(NO LOAD)	_	-	C/277					6	LST-40, LST-43	0.6	2	1/277				
7	LST-45, LST-48, LST-51	1.0	3. 6	A/277				3-250W HPS	8	LST-52	0.3	1	1/277				
9	LST-47, LST-50	0.7	2. 4	B/277	3	100A	20 <b>A</b>	2-250W HPS	10	LST-53	0.3	1	1/277	3	20 <b>A</b>	20 <b>A</b>	
11	LST-46, LST-49	0.7	2. 4	C/277				2-250W HPS	12	(NO LOAD)	-	1	1/277				
13									14								
15	SPARE				3	100A	20 <b>A</b>		16	SPARE				3	20 <b>A</b>	20 <b>A</b>	
17									18								
19	SPACE								20	SPACE							
21	SPACE								22	SPACE							
23	SPACE								24	SPACE							

# PANELBOARD - ARMSTRONG CORNER ROAD LIGHTING CONTROL CENTER (TYPE 'R' LC-04)

600 AMP BUS
200 AMP 3P CONTACTOR 277/480V 3 PHASE, 4 WIRE + GND

200 A	MP M. C. B.	LUMINAIR <mark>E V</mark> OLT	AGE: 277 VC	)LTS												
CKT.	EQUIPMENT SERVED	CONNECTED LOAD	PHASE - AND		NCH CIRCUI BREAKERS	T	REMARKS	CKT.	EQUIPMENT SERVED		ECTED AD	PHASE AND		CH CIRCUI REAKERS	T	REMARKS
NO.	EQUIT MENT SERVED	KW AMPS	VOLTS	NUMBER OF POLES	FRAME SIZE	TRIP SIZE		NO.	EQUIT MENT SERVED	KW	AMPS	VOLTS	NUMBER OF POLES	FR <b>AME</b> SIZE	TRIP SIZE	
1	LST-65	0.3 1.2	A/277				1-250W HPS	2	LST-54, LST-57	0.7	2. 4	<b>A</b> /277				2-250W HPS
3	LST-64	0.3 1.2	B/277	3	100A	20A	1-250W HPS	4	LST-56	0.3	1.2	B/277	3	100 <b>A</b>	20A	1-250W HPS
5	LST-63	0.3 1.2	C/277				1-250W HPS	6	LST-55	0.3	1.2	C/277				1-250W HPS
7	LST-66, LST-69	0.7 2.4	A/277				2-250W HPS	8	LST-58, LST-61	0.7	2. 4	A/277				2-250W HPS
9	LST-67, LST-70	0.7 2.4	B/277	3	100A	20A	2-250W HPS	10	LST-59, LST- <mark>62</mark>	0.7	2. 4	B/277	3	100A	2 <mark>0A</mark>	1-250W HPS
11	LST-68	0.7 1.2	C/277				1-250W HPS	12	LST-60	0.3	1.2	C/277				1-250W HPS
13								14								
15	SPARE			3	100 <b>A</b>	20 <b>A</b>		16	SPARE				3	100 <b>A</b>	20 <b>A</b>	
17								18								
19	SPACE							20	SPACE							
21	SPACE							22	SPACE							
23	SPACE							24	SPACE							

### NOTES:

- PANELBOARD SHALL HAVE A MINIMUM SIZE OF 24 SPACES TO ACCOMMODATE FUTURE USE.
- ALL LIGHTING CONTROL CENTER PANELBOARDS SHALL HAVE BOLT-ON CIRCUIT BREAKERS.

									J		LI-31
		ADD	ENDUMS / REVISIONS			US 301		CONTRACT BRIDGE	NO.	LIGHTING PLAN	SHEET NO.
DELAWARE DEPARTMENT OF TRANSPORTATION						LEVELS ROAD	AD	T200911303		LIGITING FLAN	1030
	RTATION ———				NOT TO SCALE		COUNTY	) BY: A. AGGARWAL	LIGHTING SCHEDULES 1	TOTAL SHTS.	
						TO SUMMIT BRIDGE ROAD		NEW CASTLE CHECKED	BY: D. L. BAKER		1256

•	•	

12 SPACE SPACE 13 SPACE SPACE 15

PANELBOARD - CONNECTOR RD/SUMMIT BRIDGE RD INTERSECTION SW CORNER - LIGHTING CONTROL CENTER (TYPE'M'LC-06)

22

PANELBOARD - CONNECTOR RD/SUMMIT BRIDGE RD INTERSECTION NW CORNER - LIGHTING CONTROL CENTER (TYPE 'R' LC-05)

REMARKS

4-250W HPS

4-250W HPS

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

3-250W HPS

CKT.

NO.

EQUIPMENT SERVED

LST-80, LST-83, LST-86

LST-81, LST-84, LST87

LST-82, LST-85

SPARE

SPACE

SPACE

SPACE

SPACE

BRANCH CIRCUIT

BREAKERS

FRAME

SIZE

100A

100A

NUMBER OF POLES

TRIP

SIZE

20**A** 

20**A** 

REMARKS

3-250W HPS

3-250W HPS

3-250W HPS

- - - - - - - - - - -

CONNECTED

LOAD

KW AMPS

1.0 3.6

1.0 3.6

1.0 2.4 1/120

PHASE

AND

VOL TS

1/277

1/120

200 AMP BUS SINGLE PHASE, 3 WIRE + GND 100 AMP 2P CONTACTOR

600 AMP BUS

CONNECTED

KW AMPS

LOAD

1.3

1.0

200 AMP 3P CONTACTOR

4.8

4.8

3.6

LUMINAIRE VOLTAGE: 277 VOLTS

PHASE

VOL TS

A/277

B/277

C/277

BRANCH CIRCUIT

BREAKERS

FRAME

SIZE

100A

100A

TRIP

SIZE

20**A** 

20**A** 

NUMBER OF POLES

277/480V

CKT.

17

19

23

200 AMP M. C. B.

3 PHASE, 4 WIRE + GND

EQUIPMENT SERVED

LST-106, LST-109, LST-112,

LST-115

LST-107, LST-110, LST-113,

LST-116

LST-108, LST-111, LST-114

SPARE

SPACE

SPACE

SPACE

SPACE

100 A	MP M. C. B.	LUMII	NATRE VO	LTAGE: 120	VOL 15												
CKT.		CONNECTED LOAD		PHASE AND		BRANCH CIRCUIT BREAKERS		REMARKS	CKT.	EQUIDMENT SERVED	CONN <mark>ECT</mark> ED LOAD		PHASE AND	BRANCH CIRCUIT BREAKERS		T	REMARKS
NO. EQUIPMENT SERVED	KW	AMPS		NUMBER OF POLES	FRAME SIZE	TRIP SIZE	- NEMARKS	NO.	EQUIPMENT SERVED	KW	AMPS	VOLTS	NUMBER OF POLES	FR <b>AME</b> SIZE	TRIP SIZE	NEMANNS	
1	LST-95	0.2	1.6	A/120	2	100A	20A	CONTRACT T201011301 LIGHT POLE	2	LST-133, LST-135	0.4	3. 3	A/120	2	100A	20A	CONTRACT T201011301 LIGHT POLE
3	LST-131	0.4	3. 3	B/120		TOUA	ZUA	CONTRACT T201011301 LIGHT POLE	4	LST-13 <mark>2, LST-</mark> 134	0.4	1.6	B/120		TOUA	ZUA	CONTRACT T201011301 LIGHT POLE
5	LST-96	0.2	1.6	A/120	2	100 <b>A</b>	201	CONTRACT T201011301 LIGHT POLE	6	LST-94, LST-92, LST-90, LST-71, LST-73, LST-74, WP-1	1. 375	11.4	A/120	2	100A	20A	6-150W HPS 1-200W HPS
7	LST-136	0.2	1.6	B/120	2	TOUA	ZUA	CONTRACT T201011301 LIGHT POLE	8	LST-93, LST-91, WP-2, LST-88, LST-72	1.05	9.0	B/120	2	TOUA	ZUA	4-150W HPS 1-200W HPS
9	LST-97, LST-99, L <mark>ST-</mark> 90A, WP-4	0.8	7.0	A/120	2	100A	20A	3-150W HPS 1-200W HPS	10	SPARE —				2	100A	20A	
11	LST-98, LST-100, LST-89, WP-3	0.8	5 7.0	B/120		TOUA	ZUA	3-150W HPS 1-200W HPS	12	JI AILL				2	TOUA	ZUA	
13	SPARE —				2	100A	20 <b>A</b>		14	SPACE							
15	JI AIL					TUUA			16	SPACE							
17	SPACE								18	SPACE							
19	SPACE								20	SPACE							
21	SPACE								22	SPACE							
23	SPACE								24	SPACE							

### NOTES:

- 1. PANELBOARD SHALL HAVE A MINIMUM SIZE OF 24 SPACES TO ACCOMMODATE FUTURE USE.
- 2. ALL LIGHTING CONTROL CENTER PANELBOARDS SHALL HAVE BOLT-ON CIRCUIT BREAKERS.

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							LI-32	
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		110 201	CONTRACT	BRIDGE NO.	LIGHTING PLAN	SHEET NO.	
		NOT TO SCALE	US 301	T200911303			1031	
	v	NOT TO GOALL	LEVELS ROAD	COUNTY	DESIGNED BY: A. AGGARWAL	LIGHTING SCHEDULES 2	TOTAL SHTS.	
			TO SUMMIT BRIDGE ROAD	NEW CASTLE	CHECKED BY: D. L. BAKER			