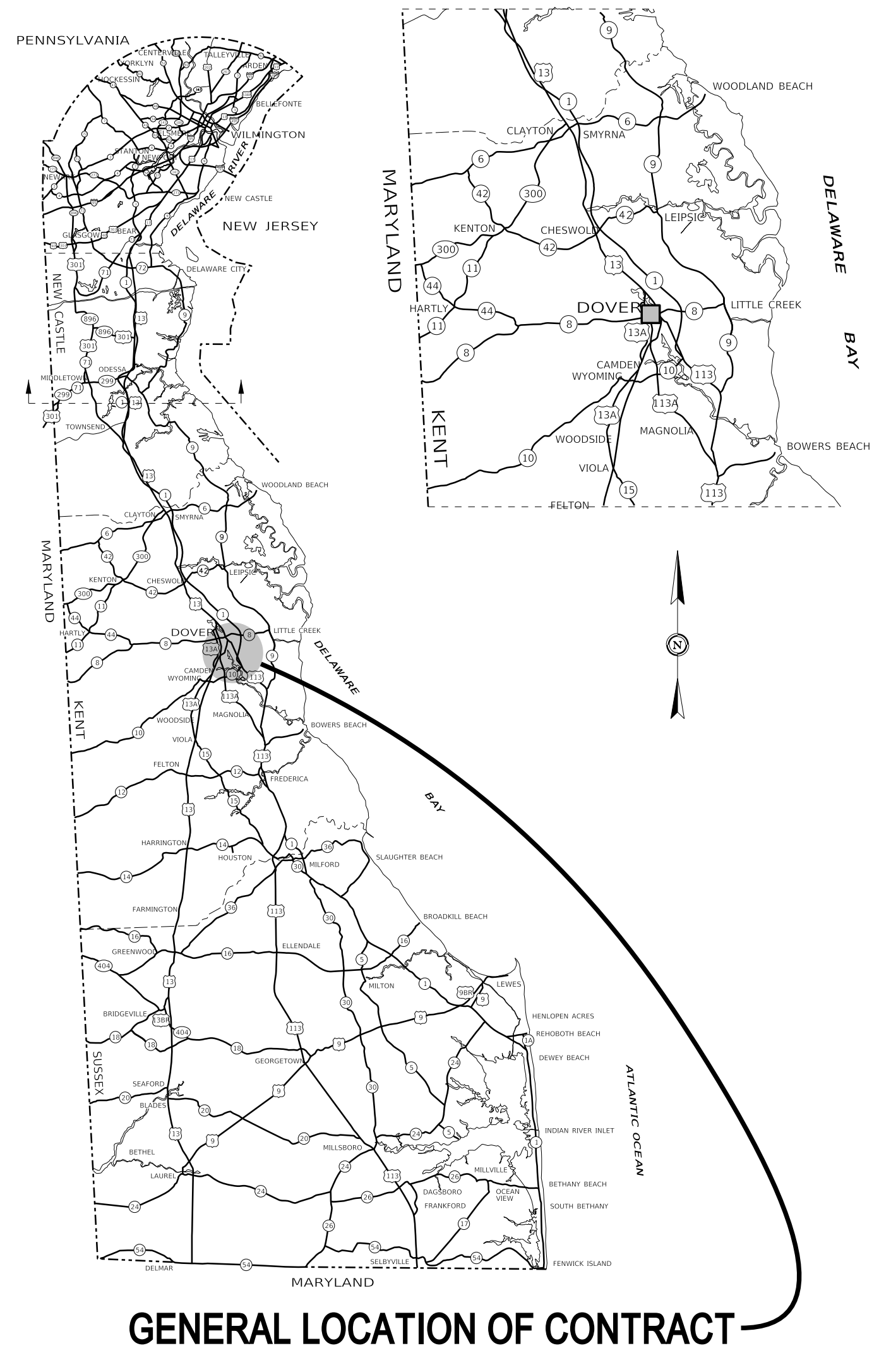


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GENERAL LOCATION OF CONTRACT

THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION



CONSTRUCTION PLANS FOR:

DOVER BUS CANOPY SOLAR PANELS

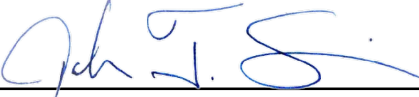
CONTRACT NUMBER: T202153104.03
FEDERAL FTA PROJECT NUMBER: 5339-2021(02)

COUNTY: KENT M.R. #: N/A
FROM MILEPOST N/A TO MILEPOST N/A

U.S. CUSTOMARY
UNITS

DESIGN DESIGNATION			
FUNCTIONAL CLASS: X		D.H.V. PROJECTED:	YEAR:
TYPE OF CONSTRUCTION: X		DESIGN SPEED: XX MPH	
A.A.D.T. CURRENT:	YEAR:	TRUCKS:	
A.A.D.T. PROJECTED:	YEAR:	DIRECTION OF DISTRIBUTION:	
APPROVED DESIGN EXCEPTIONS			
DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

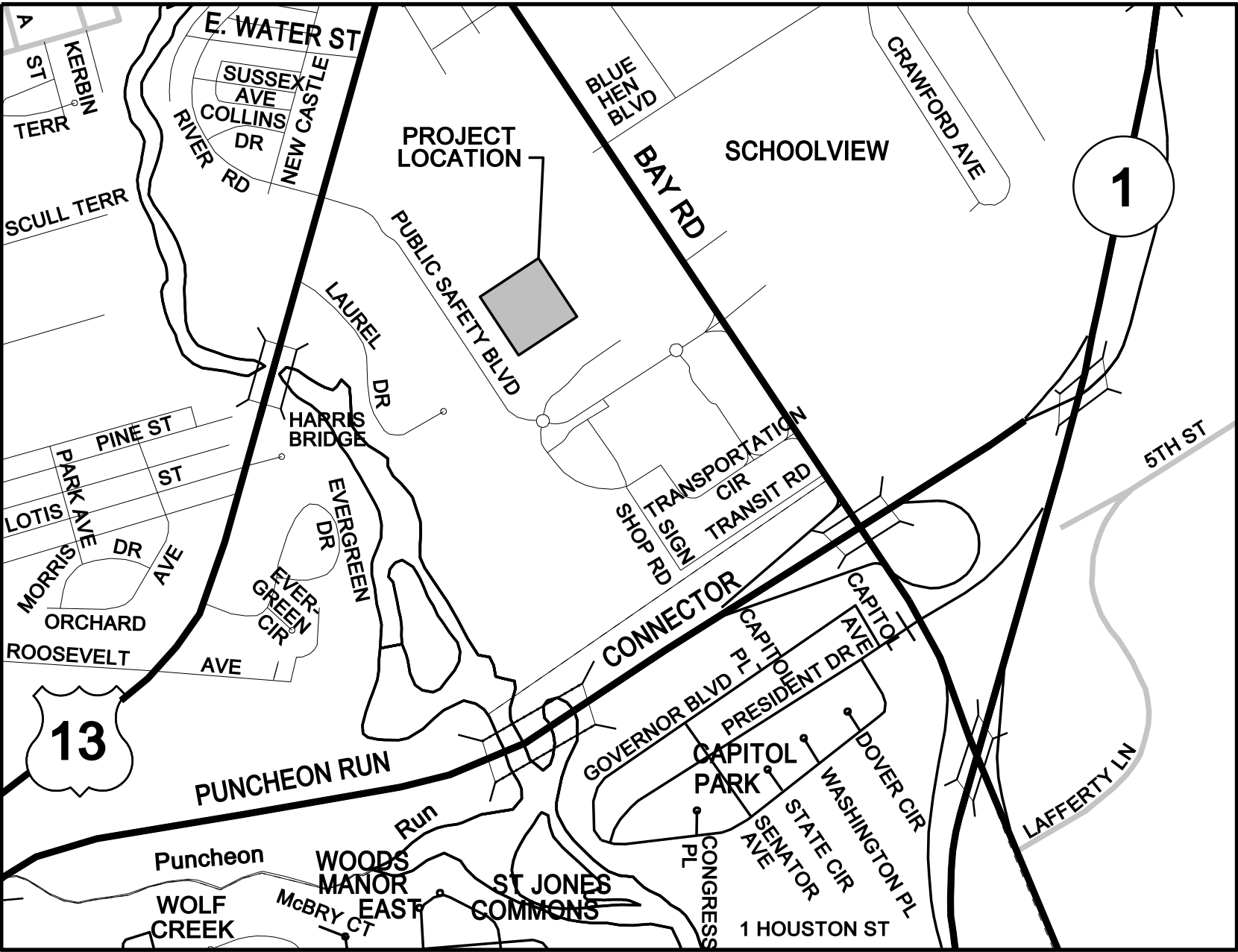
APPROVED FOR ADVERTISEMENT



CHIEF EXECUTIVE OFFICER,
DELAWARE TRANSIT CORPORATION

3/3/2026

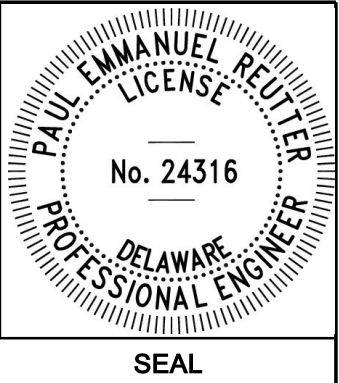
DATE



LOCATION MAP

SCALE: N. T. S.

PREPARED BY
THE CONSULTING FIRM OF
**JOHNSON, MIRMIRAN &
THOMPSON**
121 CONTINENTAL DR, SUITE 300
NEWARK, DE, 19713
(302) 266 - 9600



I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY
SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLIES WITH
THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.



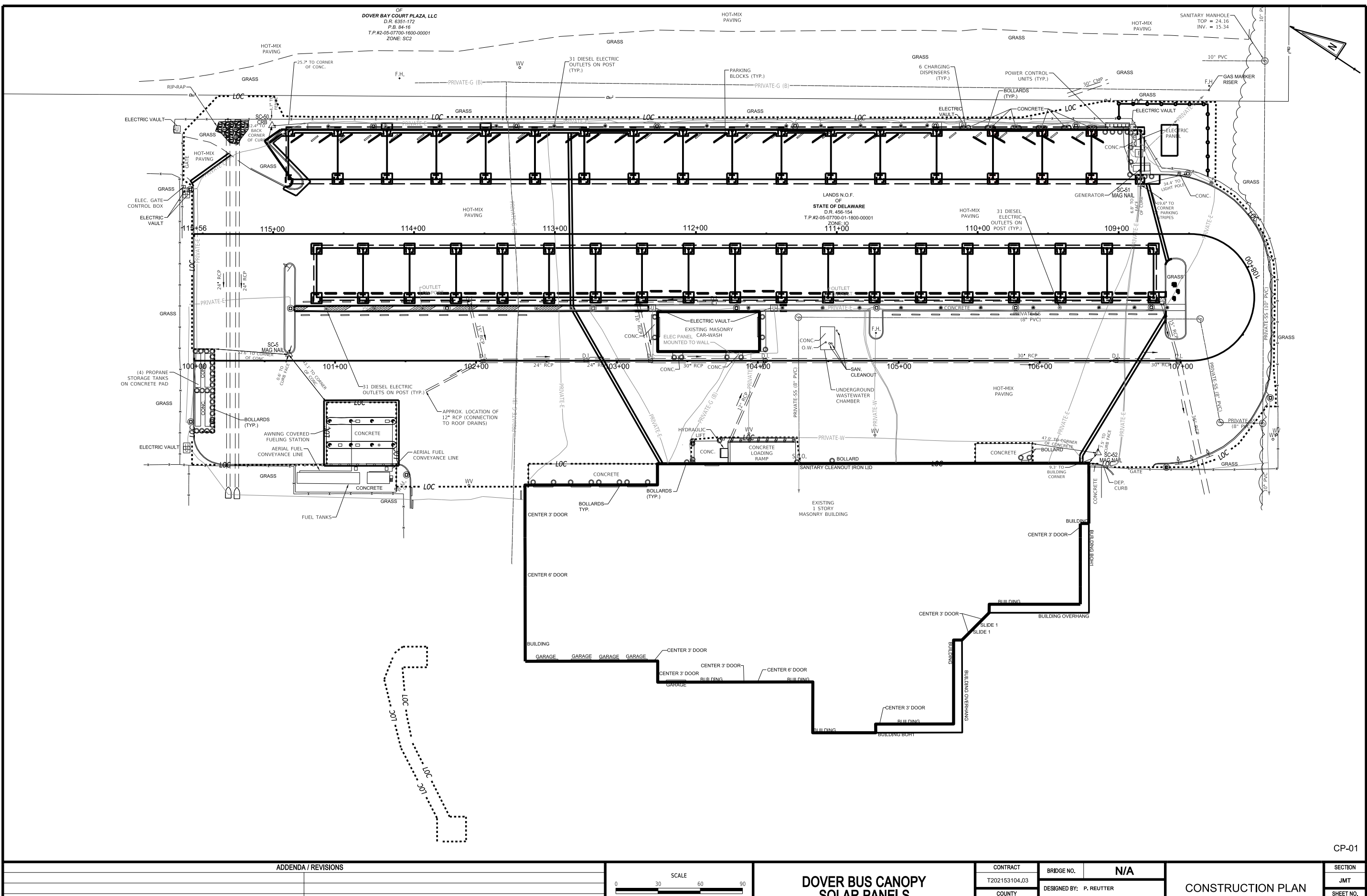
RECOMMENDED

7/8/25

DATE

INDEX OF SHEETS

Sheet No.	Drawing No.	Description
1	TC01	TITLE
2	IS01	INDEX OF SHEETS
Civil Drawings		
3	AD01	ADDENDA AND REVISIONS
4	LG01	LEGEND
5	PN01	NOTES
6	HV01	HORIZONTAL AND VERTICAL CONTROL
7	EXCP01	EXISTING CONDITIONS AND DEMOLITION PLAN
8	CP01	CONSTRUCTION PLANS
9	GG01	GRADES AND GEOMETRICS
10	DT01	CONSTRUCTION DETAILS
11	DT02	CONSTRUCTION DETAILS
12	DT03	CONSTRUCTION DETAILS
13	CS01	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - NOTES
14	CS02	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1
15	CS03	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2
16	CS04	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 3
17	CS05	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - DETAILS
18	SS01	SIGNING, STRIPING AND CONDUIT PLANS
Electrical Drawings		
19	E-001	ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
20	ED-101	ELECTRICAL SITE PLAN - DEMOLITION
21	E-101	ELECTRICAL SITE PLAN - NEW
22	E-102	CCTV CONDUIT ROUTING PLAN - NEW
23	E-103	SITE PLAN - NEW SOLAR ARRAY LAYOUT
24	E-401	ELECTRICAL SITE PLAN - NEW
25	E-501	ELECTRICAL DETAILS
26	E-502	ELECTRICAL DETAILS II
27	E-503	ELECTRICAL SINGLE LINE DIAGRAMS & CONDUIT SCHEDULES
28	E-601	ELECTRICAL PANEL AND EQUIPMENT SCHEDULES



ADDENDA / REVISIONS		NOT TO SCALE	DOVER BUS CANOPY SOLAR PANELS	CONTRACT	BRIDGE NO.	N/A	INDEX OF SHEETS	SECTION	
				T202153104.03	DESIGNED BY: P. REUTTER			JMT	
				COUNTY				SHEET NO.	
				KENT	CHECKED BY: N. BERGERON			2	

ADDENDUM PREPARED BY
JMT

SEAL

THIS SEAL APPLIES TO THE FOLLOWING
SHEETS CHANGED UNDER ADDENDUM #4:
3, 9, 10, 26, 28, 31

DATE

REVISION PREPARED BY
JMT

SEAL

THIS SEAL APPLIES TO THE FOLLOWING
SHEETS CHANGED UNDER ADDENDUM #X:
XX, XX-XX, XX

DATE

AD-01											
ADDENDA / REVISIONS				NOT TO SCALE	DOVER BUS CANOPY SOLAR PANELS	CONTRACT	BRIDGE NO.	N/A	ADDENDA AND REVISIONS	SECTION	
						T202153104.03	DESIGNED BY: P. REUTTER			JMT	
						COUNTY	CHECKED BY: N. BERGERON			SHEET NO.	
						KENT				3	

EXISTING SYMBOLS	
DRAINAGE	
	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
	DRAINAGE INLET
	DRAINAGE JUNCTION BOX
	DRAINAGE MANHOLE
	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE
MANMADE ROADSIDE FEATURES	
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	CURB
	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
	LAMP AND POST - RESIDENTIAL
	MAILBOX
	PARKING METER AND POST
	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
	PILE - BRIDGE
	PILLAR OR MISCELLANEOUS POST
	TRAFFIC SIGN AND POST
	WALL - BRICK OR BLOCK
	WALL - STONE
NATURAL ROADSIDE FEATURES	
	HEDGEROW OR THICKET
	MARSH BOUNDARY LINE
	TREE - CONIFEROUS
	TREE - DECIDUOUS
	TREE STUMP
	SHRUBBERY
	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY
RIGHT-OF-WAY SYMBOLS	
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE
	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY NGS POINT LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS
UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER CLEANOUT OR VENT
	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	TELEPHONE MANHOLE
	TELEPHONE TEST POINT
	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
	WATER - FIRE HYDRANT
	WATER METER
	WATER VALVE
	WELL HEAD
	MANHOLE - UNDETERMINED OWNER
UTILITY COMPANY FACILITIES	
	EXISTING PRIVATE - FIBER OPTIC
	EXISTING PRIVATE - SANITARY SEWER
	EXISTING PRIVATE - WATER
	EXISTING PRIVATE - GAS
	EXISTING PRIVATE - ELECTRIC
(X) REPRESENTS ASCE DEFINED SUE QUALITY LEVEL	

CONSTRUCTION	
	BARRIER, DOUBLE-FACED, PERMANENT
	BARRIER, SINGLE-FACED, PERMANENT, TL-4 / TL-5
	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CLEAR ZONE
	CONSTRUCTION BASELINE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB OPENING - SUMP / ON GRADE
	CURB OPENING WITH SIDEWALK
	DRAINAGE INLET
	DITCH
	FENCE - METAL / FENCE - WOOD
	FLARED END / SAFETY END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LATERAL OFFSET
	LIMIT OF CONSTRUCTION
	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - 4"
	P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)
	UNDERDRAIN
	UNDERDRAIN OUTLET
	BOLLARD
RIGHT-OF-WAY SYMBOLS	
	PROPOSED RIGHT-OF-WAY MONUMENT
	PROPOSED DENIAL OF ACCESS
	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED R/W & DENIAL OF ACCESS
	RIGHT-TO-ENTER
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS	
	ABANDON BY CONTRACTOR
	ABANDON BY OTHERS
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	BEST MANAGEMENT PRACTICE
	BUS STOP PAD / TYPE
	BUS STOP WITH SHELTER PAD / TYPE
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING - SUMP / ON GRADE
	CURB OPENING WITH SIDEWALK
	DRAINAGE INLET
	DO NOT DISTURB
	ENERGY DISSIPATOR
	FENCE
	FLARED END SECTION
	FILL WITH FLOWABLE FILL
	GUARDRAIL
	JUNCTION BOX
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PEDESTRIAN CONNECTION / TYPE
	PEDESTRIAN CONNECTION / TYPE WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	RELOCATE BY PROPERTY OWNER
	REMOVE BY CONTRACTOR
	REMOVE BY TRAFFIC CONTRACTOR
	REMOVE BY OTHERS
	SAFETY END SECTION
	UNDERDRAIN / LENGTH
	UNDERDRAIN OUTLET PIPE
LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE
TRAFFIC	
	ITMS CONDUIT
	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)	
	HOT-MIX SEAL COAT - SEE DELDOT STANDARD SPECIFICATIONS FOR MATERIALS AND DEPTHS
	RECONSTRUCTED BITUMINOUS PAVEMENT - SEE PAVEMENT SECTIONS (DT-01) FOR MATERIALS AND DEPTHS
UTILITIES	
	PROPOSED PRIVATE - ELECTRIC
	PROPOSED PRIVATE - SANITARY SEWER

ADDENDA / REVISIONS		NOT TO SCALE	DOVER BUS CANOPY SOLAR PANELS	CONTRACT	BRIDGE NO.	N/A	LEGEND	SECTION
				T202153104.03	DESIGNED BY: P. REUTTER			JMT
				COUNTY				SHEET NO.
				KENT	CHECKED BY: N. BERGERON	4		

GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED JANUARY 2024 AND THE "STANDARD CONSTRUCTION DETAILS" DATED 2020, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISING. ITEMS SHALL BE MEASURED AND QUANTIFIED AS SUCH, BUT PAID FOR USING ITEM 763511 - MAINTENANCE BUILDING AND ITEM 837524 - INSTALLATION OF SOLAR PANEL AS SHOWN ON THE ITEM BREAKOUT SHEETS.
2. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
(X)	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

PROJECT NOTES

SECTION 100

1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET OR DO NOT DISTURB BY THE CONTRACTOR , AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT 302-659-4600 PRIOR TO ANY UNMANNED AIRCRAFT VEHICLE (UAV) FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION: THE REGISTRATION NUMBER OF THE UAV, THE FLIGHT TIME, LOCATION OF THE FLIGHT, THE PILOT'S NAME AND THE PILOT'S CONTACT NUMBER DURING THE FLIGHT.

SECTION 200

3. ITEMS TO BE REMOVED IN ACCORDANDE WITH DELDOT SPECIFICATIONS FOR REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING. ITEMS SHALL BE PAID UNDER ITEM 763511 - MAINTENANCE BUILDING.

A. EXISTING CONCRETE MEDIAN

B. EXISTING LIGHTPOLES AND ELECTRIC OUTLETS ON POSTS
4. ALL EXCAVATION WILL BE INCIDENTAL TO AND PAID UNDER ITEM 763511 - MAINTENANCE BUILDING.
5. ONLY EXISTING FEATURES WITHIN THE LOC IDENTIFIED WITH REMOVE BY CONTRACTOR OR BY OTHER METHODS ARE TO BE REMOVED OR DISTURBED.
6. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE PREFORMED IN ACCORDANCE WITH PIPE, CULVERT, AND STRUCTURAL EXCAVATION AND AND BACKFILL, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED AND PAID UNDER ITEM 763511 - MAINTENANCE BUILDING

SECTION 600

7. DRAINAGE INLET GRATES ADJACENT TO THE CURB OR EDGE PAVING, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 OR TYPE 4, SHALL BE REPLACED WITH TYPE 1. INLET GRATES WITHIN THE PAVING, NOT ADJACENT TO THE CURB OR EDGE OF PAVING SHALL BE REPLACED WITH TYPE 3. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY. INCIDENTAL TO ITEM 763511 - MAINTENANCE BUILDING. FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.
8. STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.
9. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.

SECTION 700

10. IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND THE TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE TRANSITIONED CURB WORK SHALL BE MEASURED AND PAID FOR UNDER THE PROPOSED CURB ITEM. SAW CUTTING OF THE EXISTING CURB SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.
11. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.

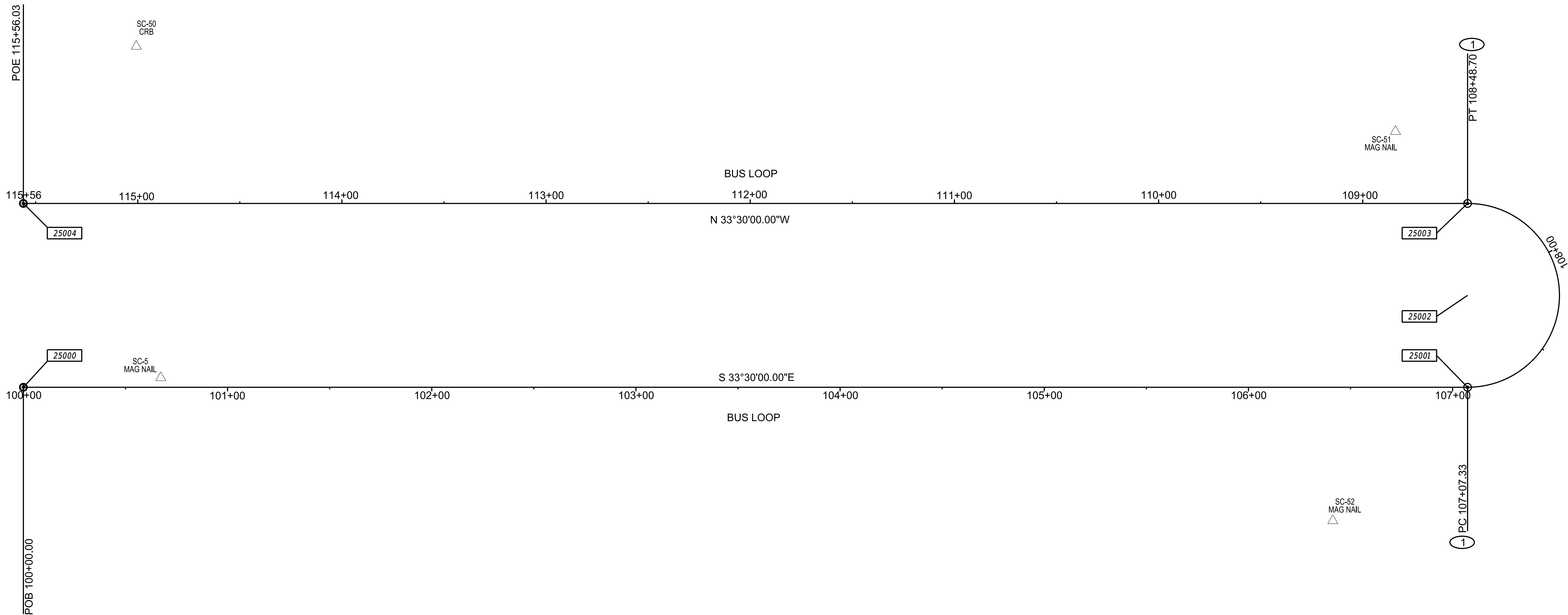
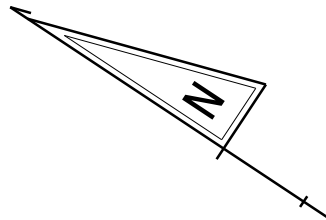
PROJECT NOTES (CONTINUED)

MISCELLANEOUS

12. THE CONTRACTOR SHALL REMOVE (7) EXISTING LIGHTPOLES AND (31) ELECTRIC OUTLETS ON BOLLARDS. ALONG WESTERN MEDIAN AISLE, CONTRACTOR SHALL REMOVE ENTIRE BOLLARD FOUNDATION AND RECONSTRUCT FULL DEPTH PAVEMENT AS SHOWN ON DT-01. BOLLARD FOUNDATIONS ALONG EASTERN MEDIAN AISLE AND BACK AISLE, CONTRACTOR SHALL REMOVE FOUNDATION 12" BELOW GRADE AND FILL WITH PATCHING CONCRETE (TO BE PAID FOR UNDER ITEM 763511 - MAINTENANCE BUILDING).
13. ANY STAGING AND/OR STOCKPILE AREA(S) OUTSIDE THE PROJECT'S LIMIT OF CONSTRUCTION (LOC) THAT INDIVIDUALLY OR CUMULATIVELY ARE LARGER THAN 10,000 SQUARE FEET, MUST BE APPROVED BY DELDOT'S ARCHAEOLOGIST. CONTACT THE CONSTRUCTION AREA ENGINEER WHO WILL COORDINATE WITH DELDOT'S ARCHAEOLOGIST.
14. ALL FIRE LANES, FIRE HYDRANTS, AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE STATE FIRE PREVENTION REGULATIONS.
15. ANY AND ALL SUBSURAFCE MATERIAL ENCOUNTERED DURING CONSTRUCTION ACTIVITIES SHALL BE REMOVED IN ACCORDANDE WITH DELDOT SPECIFICATIONS FOR EXCAVATION AND EMBANKMENT OR PIPE, CULVERT, AND STRUCTURAL EXCAVATION. EXCAVATION SHALL BE PAID FOR UNDER ITEM 763511 - MAINTENANCE BUILDING.
16. IN ORDER TO MAINTAIN EFFECTIVE COMMUNICATION WITH THE TRAVELING PUBLIC, ONLY PLACE SIGNS, BANNERS, FLAGS, OR OTHER DISPLAYS WITHIN THE PROJECTS LIMITS THAT MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ANY SIGNS OR OTHER MATERIALS WHICH DEVIATE FROM THE MUTCD, MUST BE PREAPPROVED BY THE ENGINEER. THE ONLY SIGNAGE AND MATERIALS WHICH MAY BE DISPLAYED UPON VEHICLES AND EQUIPMENT WITHIN THE PROJECT AREA ARE SIGNS DENOTING THE NAME OF THE CONTRACTOR AND ANY SUBCONTRACTORS AND OTHER SIGNS AND/OR MATERIALS REQUIRED AND APPROVED PURSUANT TO THE MUTCD AND THE ENGINEER. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SIGNS OR MATERIALS WITHIN THE PROJECT THAT DOES NOT MEET THESE REQUIREMENTS IMMEDIATELY UPON NOTIFICATION BY THE ENGINEER. FAILURE TO REMOVE SIGNS OR OTHER MATERIALS FOLLOWING NOTIFICATION FROM THE ENGINEER WILL RESULT IN LIQUIDATED DAMAGES BEING ASSESSED IN THE MANNER AND AMOUNT SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 108.9A.
17. PAVING LIMITS BEHIND THE FENCE SHALL BE SEAL COATED PRIOR TO PERMANENT STRIPING IS INSTALLED. SEAL COAT SHALL BE INSTALLED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS SECTION 504.3.6 AND SHALL BE PAID FOR UNDER ITEM 763511 - MAINTENANCE BUILDING.

FIRE MARSHALL DATA	
BUILDING NAME	DOVER MAINTENANCE FACILITY
FACILITY ADDRESS	DOVER OPERATIONS FACILITY 900 PUBLIC SAFETY BLVD. DOVER, DE 19901
KENT CO. REFERENCE NO.	XXXXXXXXX
OWNER	DELAWARE DEPARTMENT OF TRANSPORTATION 119 LOWER BEECH STREET WILMINGTON, DE 19805
ENGINEER/ APPLICANT	JOHNSON, MIRMIRAN, AND THOMPSON 121 CONTINENTAL DRIVE NEWARK, DE 19713
BUILDING USE	VEHICLE MAINTENANCE
WATER SUPPLIER	CITY OF DOVER
BUILDING HEIGHT	N/A
BUILDING CONSTRUCTION	N/A

PN-01									
ADDENDA / REVISIONS		NOT TO SCALE	DOVER BUS CANOPY SOLAR PANELS	CONTRACT	BRIDGE NO.	N/A	NOTES	SECTION	
				T202153104.03	DESIGNED BY: P. REUTTER			JMT	
				COUNTY	CHECKED BY: N. BERGERON			SHEET NO.	
				KENT				5	



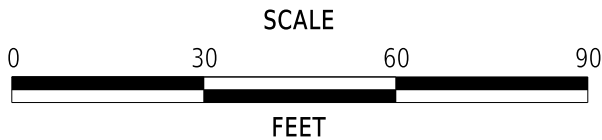
CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
25000	100+00.00	0.00'	419229.1532	629870.6268
25004	115+56.03	0.00'	419278.8276	629945.6765

HORIZONTAL / VERTICAL CONTROL DATA			
POINT NO.	NORTHING	EASTING	ELEVATION
SC-5 (MAG NAIL)	419175.7706	629911.2814	23.95'
SC-50 (CRB)	419275.3221	630039.9415	24.84'
SC-51 (MAG NAIL)	418738.0230	630345.5744	23.37'
SC-52 (MAG NAIL)	418658.4390	630169.7602	23.51'

DATUM REFERENCE:
HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/2011).
VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

CIRCULAR CURVE NO. 1			
ELEMENT: CIRCULAR	STATION	NORTHING	EASTING
PC (25001)	107+07.33	418639.3211	630261.0281
CC (25002)		418664.1583	630298.5530
PT (25003)	108+48.70	418688.9955	630336.0779
RADIUS:	45.00		
DELTA:	180°00'00.00" LT		
DEGREE OF CURVATURE(ARC):	127°19'26.23"		
LENGTH:	141.37		
TANGENT:	-1.00		
CHORD:	90.00		
MIDDLE ORDINATE:	-1.00		
EXTERNAL:	-1.00		
TANGENT DIRECTION:	S 33°30'00.00" E		
RADIAL DIRECTION:	S 56°30'00.00" W		
CHORD DIRECTION:	N 56°30'00.00" E		
RADIAL DIRECTION:	N 56°30'00.00" E		
TANGENT DIRECTION:	N 33°30'00.00" E		

ADDENDA / REVISIONS	



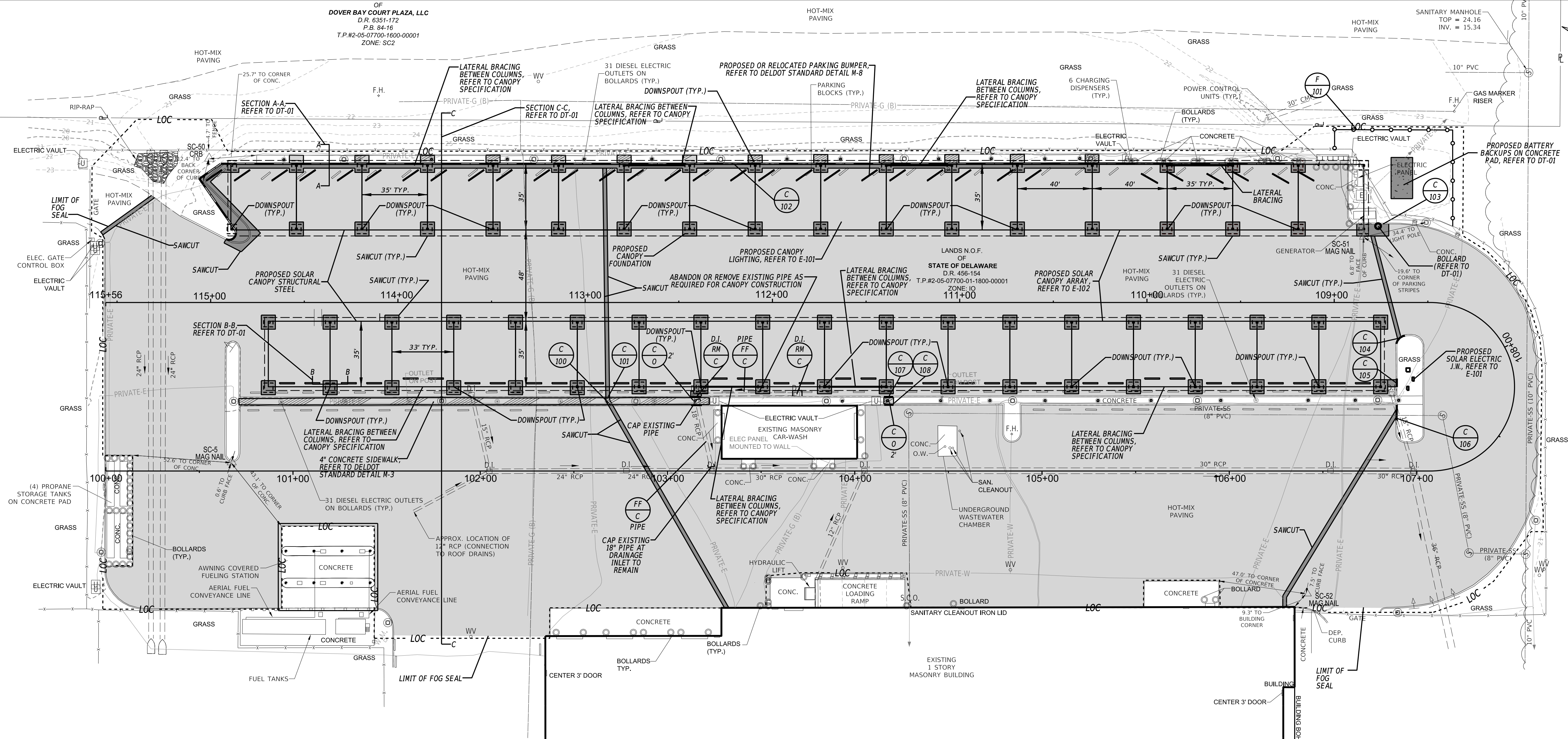
DOVER BUS CANOPY SOLAR PANELS	
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CONTRACT	BRIDGE NO.	N/A
T202153104.03	DESIGNED BY: P. REUTTER	
COUNTY	CHECKED BY: N. BERGERON	
KENT		

HORIZONTAL AND VERTICAL CONTROLS	

HV-01

SECTION
JMT
SHEET NO.
6

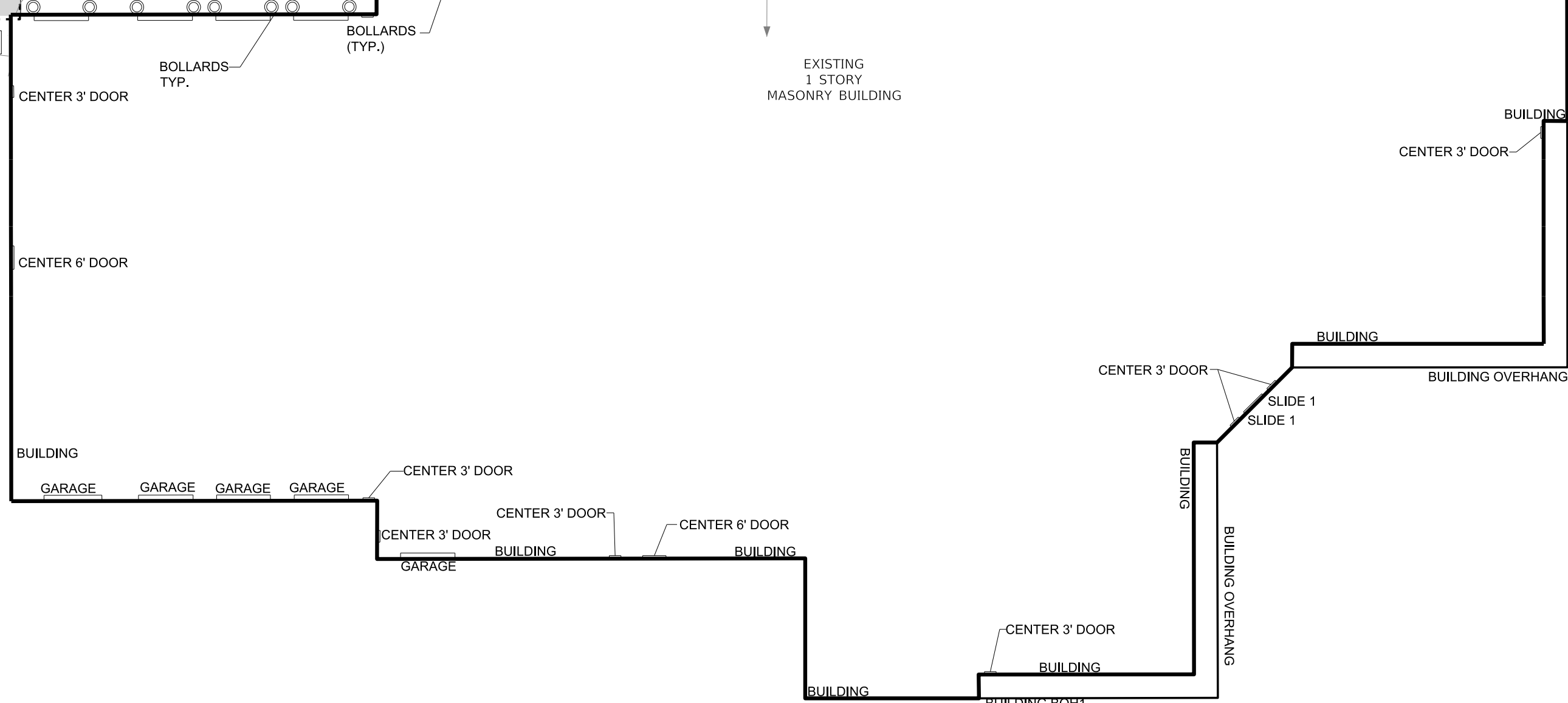
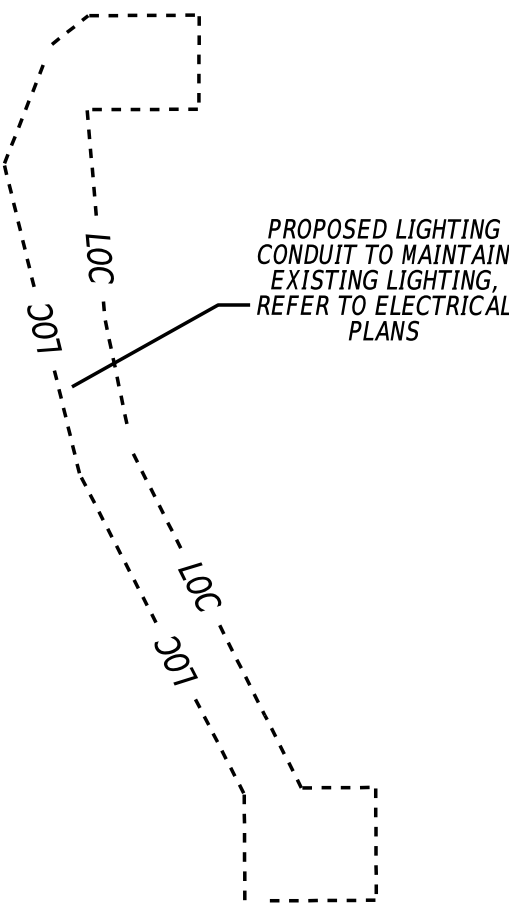


FENCE SCHEDULE

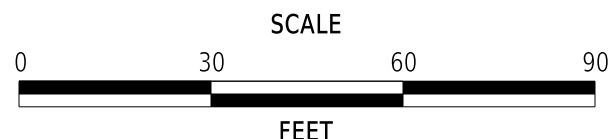
NO.	QTY.	DESCRIPTION	NOTES
101	125 LF	CHAIN LINK FENCE, 10 FT. HIGH (ITEM 727000)	N.A.

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
100	P.C.C. CURB, TYPE 1-6	5 LF
101	P.C.C. CURB, TYPE 1-6	5 LF
102	P.C.C. CURB, TYPE 1-6	629 LF
103	P.C.C. CURB, TYPE 1-6	5 LF
104	P.C.C. CURB, TYPE 1-6	5 LF
105	P.C.C. CURB, TYPE 1-6	5 LF
106	P.C.C. CURB, TYPE 1-6	5 LF
107	P.C.C. CURB, TYPE 1-6	5 LF
108	P.C.C. CURB, TYPE 1-6	5 LF



ADDENDA / REVISIONS



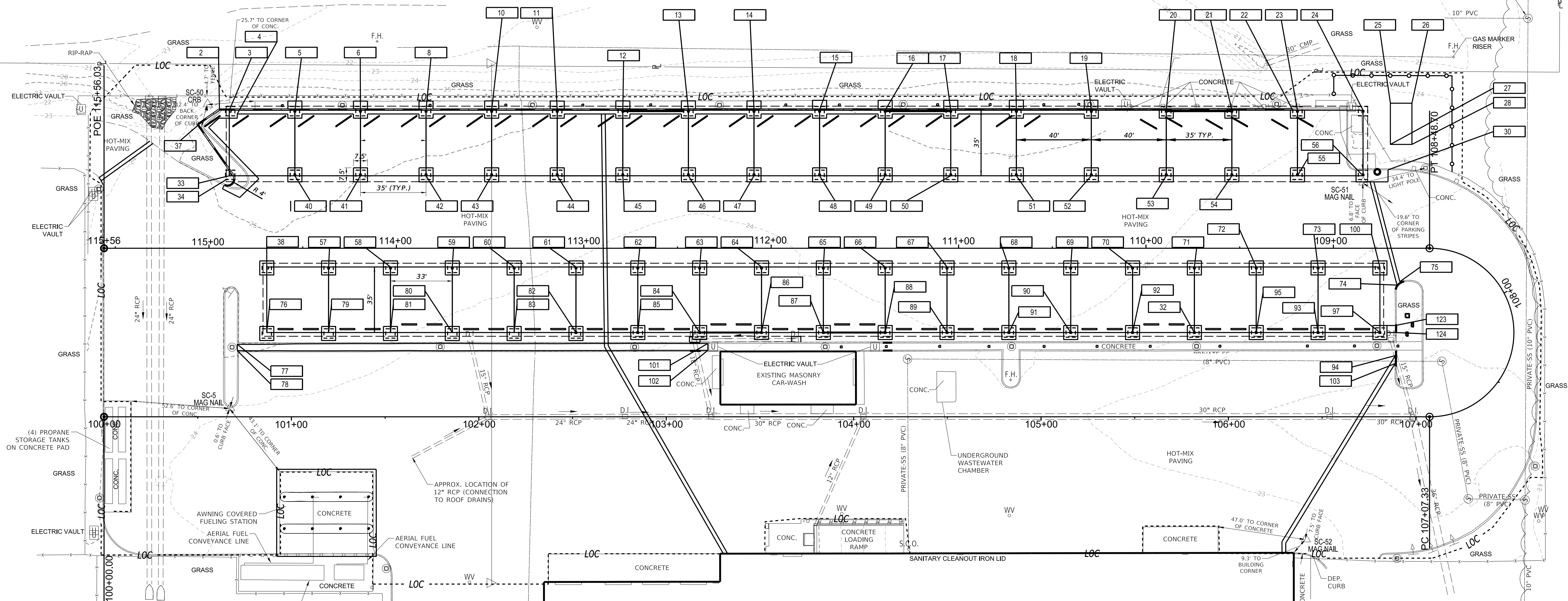
DOVER BUS CANOPY
SOLAR PANELS

CONTRACT T202153104.03	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: P. REUTTER
	CHECKED BY: N. BERGERON

CONSTRUCTION PLAN

CP-01

SECTION JMT
SHEET NO. 8



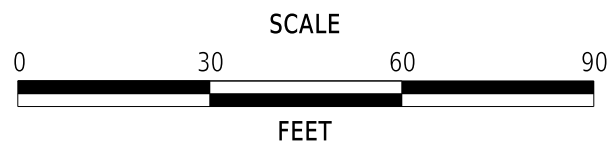
COORDINATE LIST			
POINT NO.	DESCRIPTION	NORTHING	EASTING
2	FACE OF CURB	419268.1667	630041.1532
3	COLUMN	419263.7866	630044.0523
4	COLUMN	419259.1387	630044.7302
5	COLUMN	419234.6006	630063.3701
6	COLUMN	419205.4146	630082.6879
8	COLUMN	419176.2286	630102.0057
10	COLUMN	419147.0426	630121.3235
11	COLUMN	419117.8566	630140.6412
12	COLUMN	419088.6706	630159.9590
13	COLUMN	419059.4846	630179.2768
14	COLUMN	419030.2986	630198.5946
15	COLUMN	419001.1126	630217.9124
16	COLUMN	418971.9266	630237.2302
17	COLUMN	418942.7406	630256.5480
18	COLUMN	418913.5546	630275.8658
19	COLUMN	418880.1992	630297.9433
20	COLUMN	418846.8437	630320.0208
21	COLUMN	418817.6577	630339.3386
22	FACE OF CURB	418790.5847	630357.2359
23	COLUMN	418768.4717	630358.6564
24	COLUMN	418759.2857	630377.9742
25	BATTERY PAD	418749.1843	630389.1240
26	BATTERY PAD	418739.5894	630395.4747
27	BATTERY PAD	418737.0490	630370.7895
28	BATTERY PAD	418727.4541	630377.1403

COORDINATE LIST			
POINT NO.	DESCRIPTION	NORTHING	EASTING
30	SAWCUT	418730.5986	630358.7719
32	COLUMN	418768.8026	630229.2905
33	COLUMN	419244.4688	630014.8663
34	FACE OF CURB	419244.3479	630012.9787
37	FACE OF CURB	419273.1086	630028.6026
38	COLUMN	419200.8938	629985.2677
40	COLUMN	419215.2828	630034.1841
41	COLUMN	419186.0968	630053.5019
42	COLUMN	419156.9108	630072.8197
43	COLUMN	419127.7248	630092.1374
44	COLUMN	419098.5388	630111.4552
45	COLUMN	419069.3528	630130.7730
46	COLUMN	419040.1668	630150.0908
47	COLUMN	419010.9808	630169.4086
48	COLUMN	418981.7948	630188.7264
49	COLUMN	418952.6088	630208.0442
50	COLUMN	418923.4228	630227.3620
51	COLUMN	418894.2368	630246.6798
52	COLUMN	418860.8814	630268.7573
53	COLUMN	418827.5259	630290.8348
54	COLUMN	418798.3399	630310.1526
55	COLUMN	418769.1539	630329.4704
56	COLUMN	418739.9601	630348.7933

COORDINATE LIST			
POINT NO.	DESCRIPTION	NORTHING	EASTING
57	COLUMN	419173.3756	630003.4816
58	COLUMN	419145.8574	630021.6955
59	COLUMN	419118.3392	630039.9094
60	COLUMN	419090.8209	630058.1233
61	COLUMN	419063.3027	630076.3373
62	COLUMN	419035.7845	630094.5512
63	COLUMN	419008.2662	630112.7651
64	COLUMN	418980.7480	630130.9790
65	COLUMN	418953.2298	630149.1930
66	COLUMN	418925.7115	630167.4069
67	COLUMN	418898.1933	630185.6208
68	COLUMN	418870.6751	630203.8347
69	COLUMN	418843.1568	630222.0486
70	COLUMN	418815.6386	630240.2626
71	COLUMN	418788.1204	630258.4765
72	COLUMN	418760.6021	630276.6904
73	COLUMN	418733.0839	630294.9043
74	FACE OF CURB	418692.6367	630310.0783
75	FACE OF CURB	418660.3631	630312.4612
76	COLUMN	419181.5761	629956.0817
77	SIDEWALK	419191.2510	629942.1475
78	SIDEWALK	419189.3132	629939.3484
79	COLUMN	419154.0578	629974.2956
80	COLUMN	419099.0214	630010.7234
81	COLUMN	419126.9805	629988.1749
82	COLUMN	419043.9849	630047.1513
83	COLUMN	419071.5031	630028.9373
84	COLUMN	418988.9484	630083.5791

COORDINATE LIST			
POINT NO.	DESCRIPTION	NORTHING	EASTING
85	COLUMN	419016.4667	630065.3652
86	COLUMN	418961.4302	630101.7930
87	COLUMN	418933.9120	630120.0069
88	COLUMN	418906.3937	630138.2209
89	COLUMN	418878.8755	630156.4348
90	COLUMN	418823.8390	630192.8626
91	COLUMN	418851.3573	630174.6487
92	COLUMN	418796.3208	630211.0765
93	COLUMN	418713.7866	630265.7244
94	FACE OF CURB	418672.6053	630278.1707
95	COLUMN	418741.2953	630247.5109
96	COLUMN	418714.5583	630261.9145
97	COLUMN	418686.2479	630283.9322
99	COLUMN	418735.0560	630348.1434
100	COLUMN	418705.5657	630313.1182
101	SIDEWALK	418982.0560	630081.1253
102	SIDEWALK	418980.0289	630078.0698
103	FACE OF CURB	418670.3418	630274.6060
123	FACE OF CURB	418681.4384	630291.6126
124	FACE OF CURB	418679.3671	630288.4865

ADDENDA / REVISIONS



DOVER BUS CANOPY
SOLAR PANELS

CONTRACT T202153104.03	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: P. REUTTER
	CHECKED BY: N. BERGERON

GRADES AND GEOMETRICS

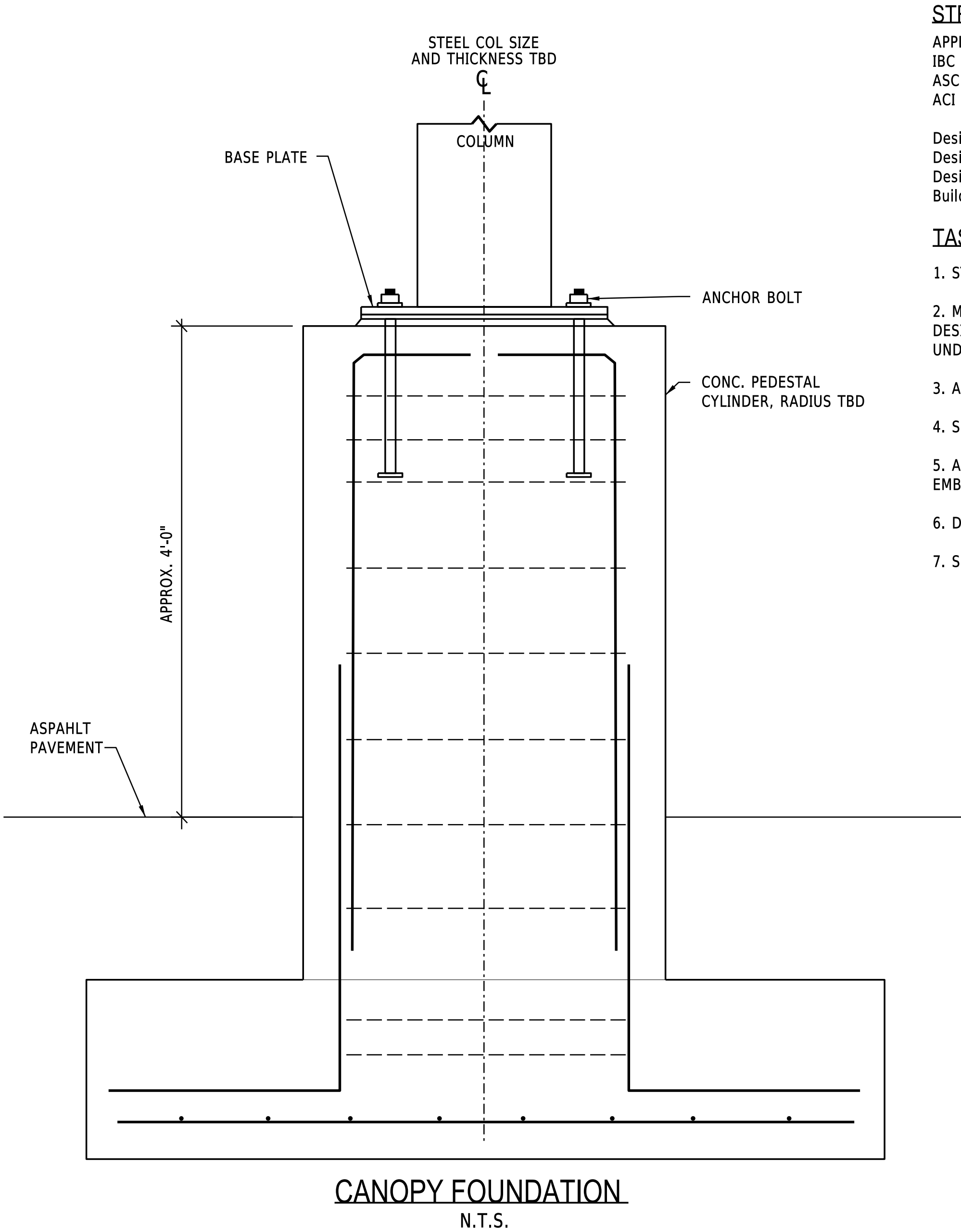
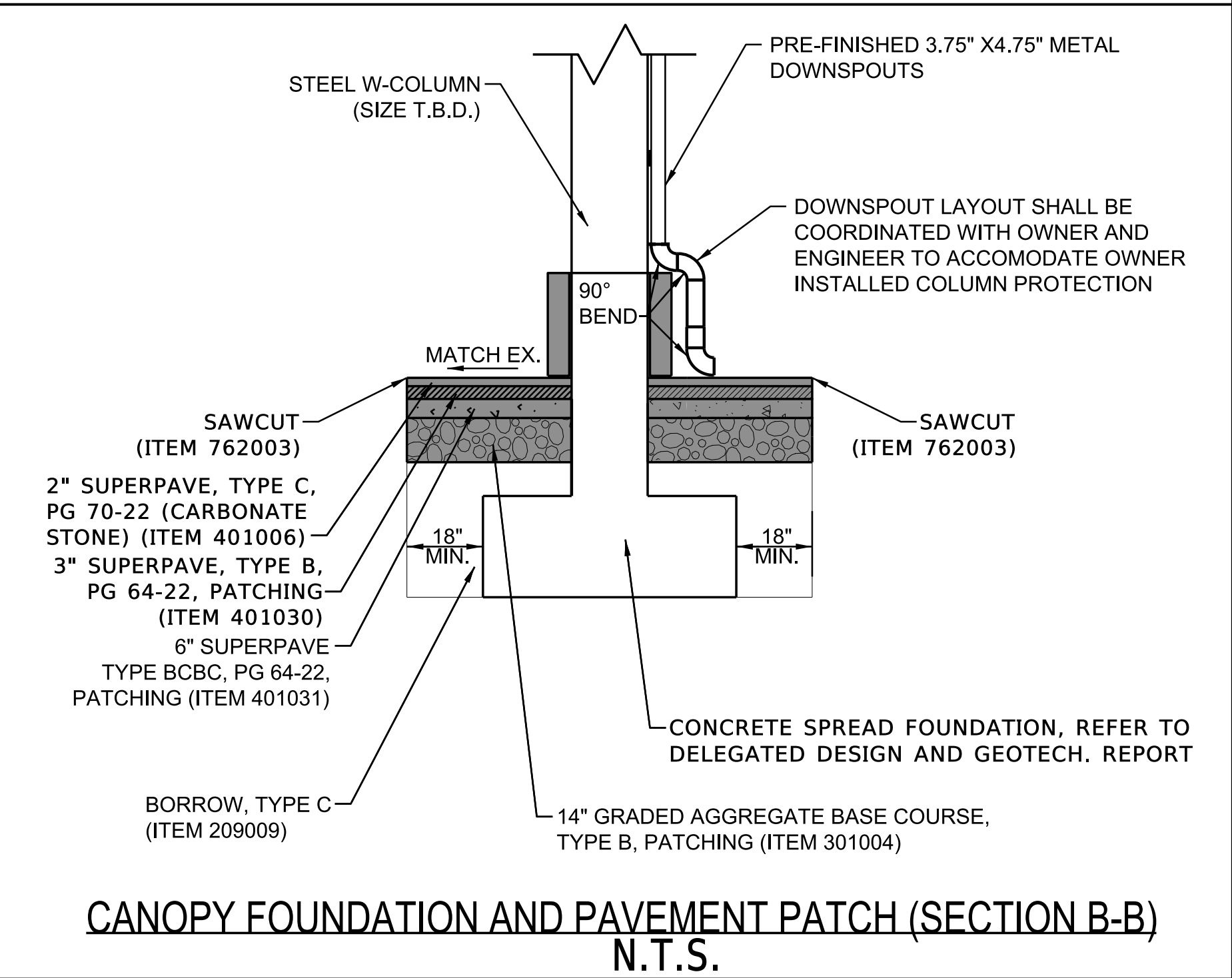
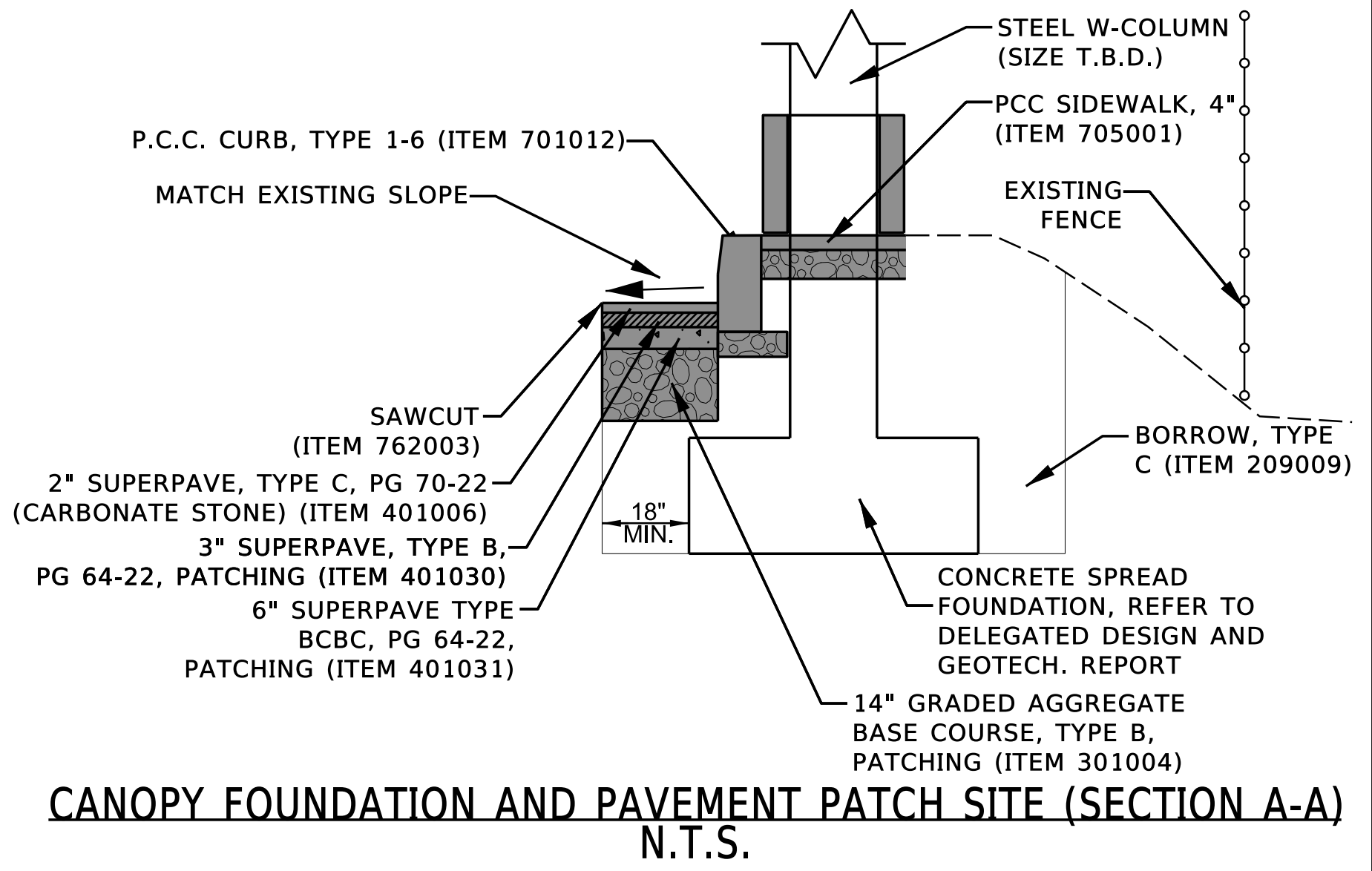
GG-01

SECTION

JMT

SHEET NO.

9



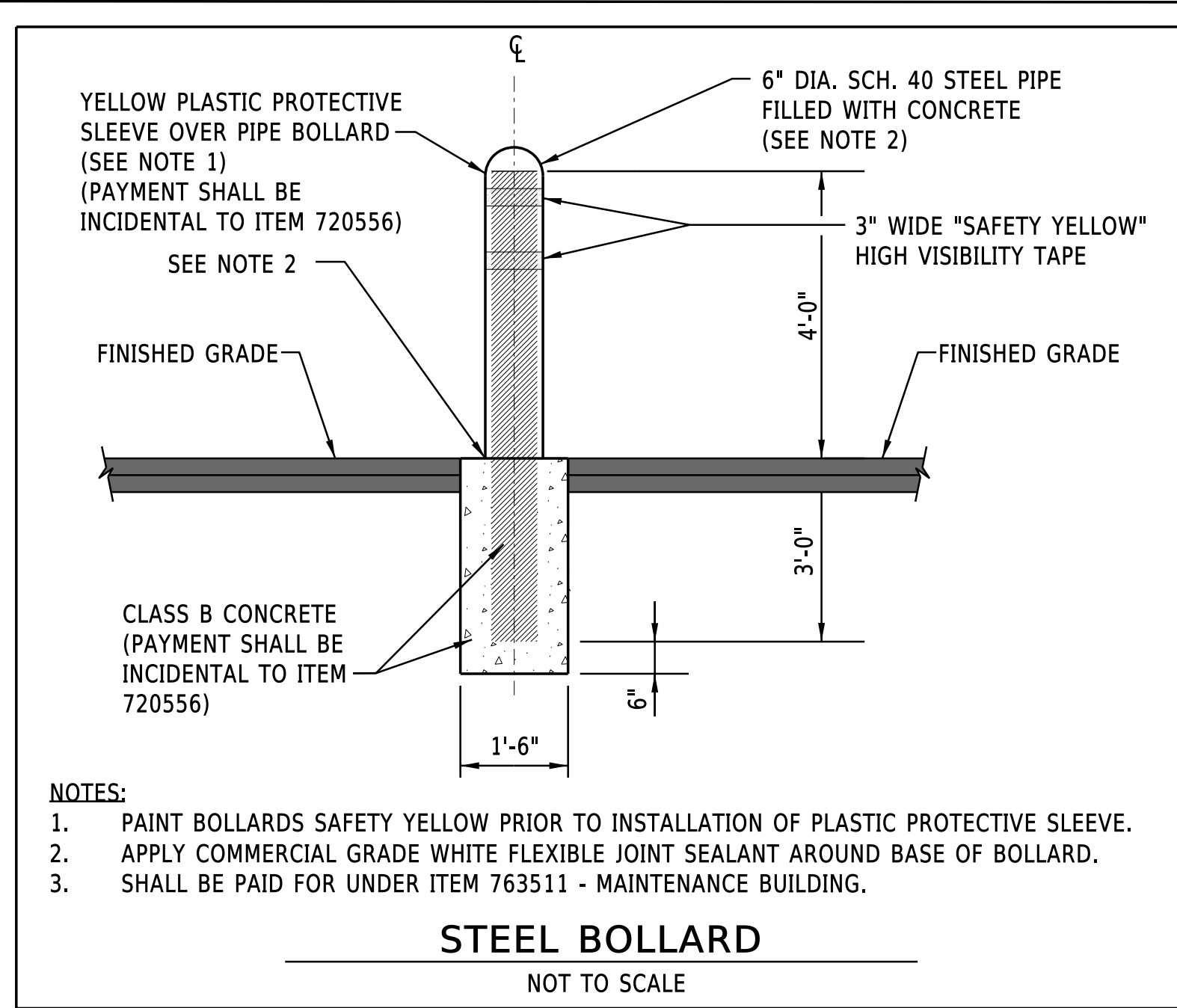
STRUCTURAL DELEGATED DESIGN NOTES:

APPLICABLE CODES:
IBC 2021
ASCE 7-16
ACI 3-18-19

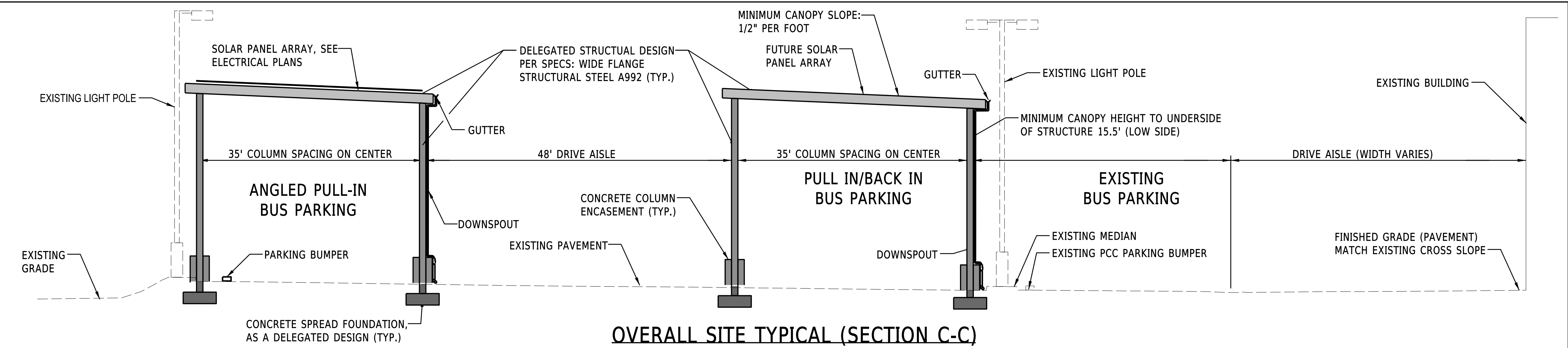
Design Roof Live Load: Per ASCE 7
Design Wind Speed = 115 mph
Design Snow Load = 25 psf
Building Risk Category II

TASKS FOR DELEGATED DESIGN OF FOUNDATIONS AND CANOPY:

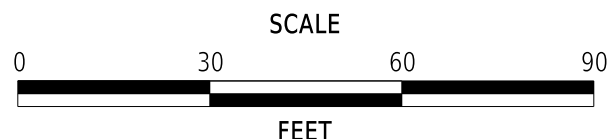
1. STANDARD DRAWINGS AND DESIGN ANALYSIS SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF DELAWARE.
2. MODIFICATIONS OF THE FOUNDATIONS, AS SHOWN HERON, REQUIRED TO ACCOMMODATE DETAILS OF THE CANOPY FRAMING MUST BE DESIGNED AND DOCUMENTED BY THE DELEGATED DESIGNER. DESIGN CALCULATIONS AND CONSTRUCTION DOCUMENTS MUST BE PREPARED UNDER THE SUPERVISION OF AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF DELEWARE.
3. ANY MODIFICATIONS TO THE FOUNDATIONS SHOWN ON THESE DRAWINGS ARE SUBJECT TO THE APPROVAL OF THE OWNER.
4. SUBMIT CANOPY DRAWINGS AND FINAL FOUNDATION LOADS PRIOR TO INITIATION OF THE FOUNDATION WORK.
5. A COMPLETE DESIGN ANALYSIS SHOWING ALL CALCULATIONS FOR FRAME, BEAMS, AND A LAYOUT OF THE ANCHOR BOLTS, OR OTHER EMBEDDED ITEMS, SHALL BE SUBMITTED WITH THE DELEGATED DESIGN.
6. DELEGATED DESIGN SHALL INCLUDE DETAILS OF ALL MAIN MEMBERS, TYPICAL CONNECTIONS SHOWING BOLT HOLES AND WELDS.
7. SEE SPECIFICATIONS FOR MORE INFORMATION ON DELEGATED DESIGN.



- NOTES:
1. PAINT BOLLARDS SAFETY YELLOW PRIOR TO INSTALLATION OF PLASTIC PROTECTIVE SLEEVE.
 2. APPLY COMMERCIAL GRADE WHITE FLEXIBLE JOINT SEALANT AROUND BASE OF BOLLARD.
 3. SHALL BE PAID FOR UNDER ITEM 763511 - MAINTENANCE BUILDING.



ADDENDA / REVISIONS	

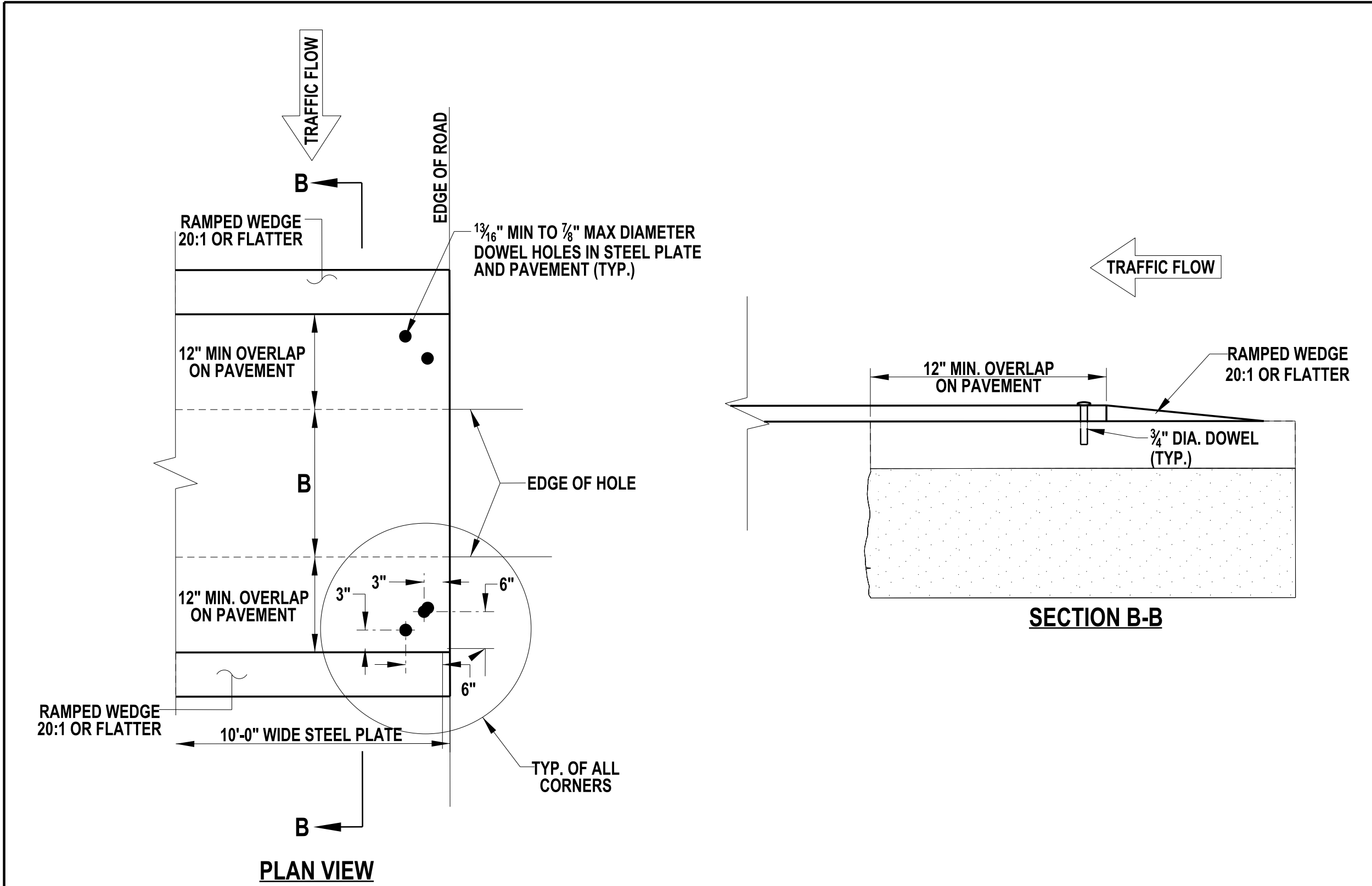


**DOVER BUS CANOPY
SOLAR PANELS**

CONTRACT T202153104.03	BRIDGE NO. N/A
COUNTY KENT	DESIGNED BY: P. REUTTER
	CHECKED BY: N. BERGERON

CONSTRUCTION DETAILS

SECTION JMT
SHEET NO. 10

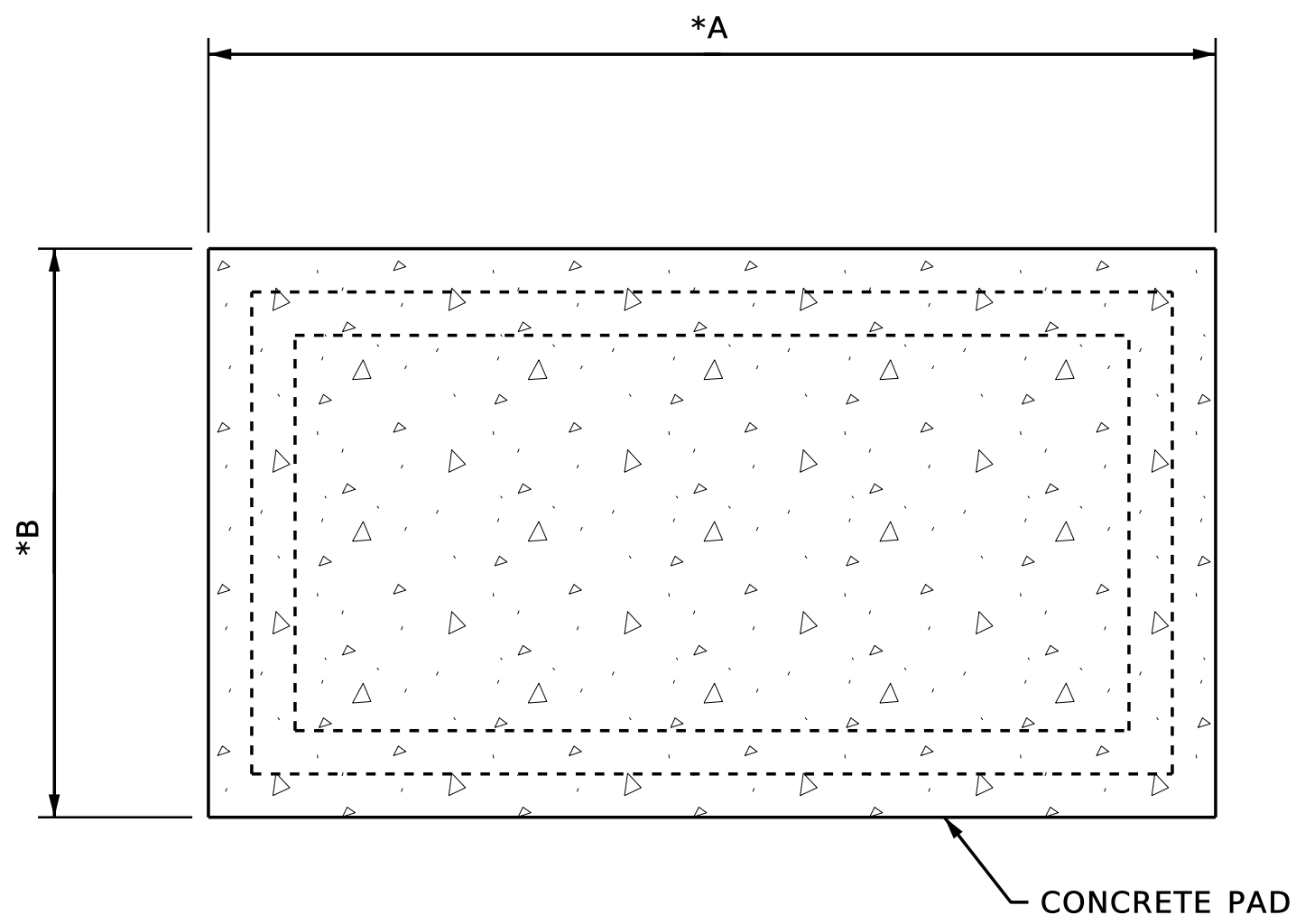


- NOTES:
1. USE OF STEEL PLATES MUST BE APPROVED BY THE ENGINEER AND IS NOT PERMITTED BETWEEN NOVEMBER 1ST AND MARCH 31ST.
 2. STEEL PLATES AND DOWELS WILL CONFORM TO ASTM A36 STANDARDS.
 3. ADEQUATELY SHORE THE TRENCH IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO SUPPORT THE BRIDGING AND TRAFFIC LOADS.
 4. SECURE BRIDGING AGAINST DISPLACEMENT BY USING ADJUSTABLE CLEATS, SHIMS, OR OTHER DEVICES.
 5. USE OF STEEL PLATE BRIDGING IS NOT TO EXCEED FOUR (4) CONSECUTIVE WORKING DAYS IN ANY GIVEN WEEK AND NOT LEFT IN PLACE OVER THE WEEKEND, UNLESS DIRECTED BY THE ENGINEER IN THE FIELD.
 6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF STEEL PLATES, SHORING, ASPHALT CONCRETE RAMPS, AND ENSURING THEY MEET ALL MINIMUM SPECIFICATIONS. DEFORMATIONS OF ANY KIND ARE NOT ACCEPTABLE ON STEEL PLATES. EXAMPLES OF DEFORMATIONS COULD BE, BUT NOT LIMITED TO, ANY OF THE FOLLOWING: FREE FROM ANY CLIPS, CHAINS, ATTACHMENTS, WELDMENTS, SURFACE IRREGULARITIES, ETC.
 7. A STRUCTURE DESIGN IS REQUIRED FOR TRENCH WIDTHS GREATER THAN 6'-0". DESIGN WILL BE APPROVED BY DEPARTMENT PRIOR TO USE.
 8. INSTALL STEEL PLATE BRIDGING AND SHORING USING THE METHOD BELOW:
METHOD: FOR SPEEDS 45 MPH OR LESS, ATTACH THE PLATE TO THE ROADWAY BY A MINIMUM OF TWO DOWELS PRE-DRILLED INTO EACH CORNER OF THE PLATE AND DRILLED 2" INTO THE PAVEMENT AS SHOWN IN ON THIS DETAIL. BUTT SUBSEQUENT PLATES TO EACH OTHER. USE COMPACTED BITUMINOUS TEMPORARY ROADWAY MATERIAL (TRM) TO FORM A RAMPED WEDGE WITH A MAXIMUM SLOPE OF 5% AND A MINIMUM TAPER LENGTH OF 20" TO COVER ALL EDGES OF STEEL PLATES.
 9. WHEN THE STEEL PLATES ARE REMOVED, BACKFILL THE DOWEL HOLES IN THE PAVEMENT WITH EITHER GRADED FINES OF ASPHALT CONCRETE MIX, CONCRETE SLURRY, OR EQUIVALENT SLURRY TO THE SATISFACTION OF THE ENGINEER.
 10. STEEL PLATES MUST HAVE A SURFACE THAT IS MANUFACTURED WITH A MINIMUM NOMINAL COEFFICIENT OF FRICTION OF 0.35 AT THE TIME OF PLACEMENT.
 11. STEEL PLATE(S) AND PLATING SHALL NOT BE PAID FOR DIRECTLY AND BOTH ARE INCIDENTAL TO HOTMIX AND CONCRETE PATCHING ITEMS.

B		C	
TRENCH WIDTH		MIN. PLATE THICKNESS	
1'-0"		1/2"	
2'-0"		3/4"	
3'-0"		7/8"	
4'-0"		1"	
5'-0"		1 1/8"	
6'-0"		1 1/4"	

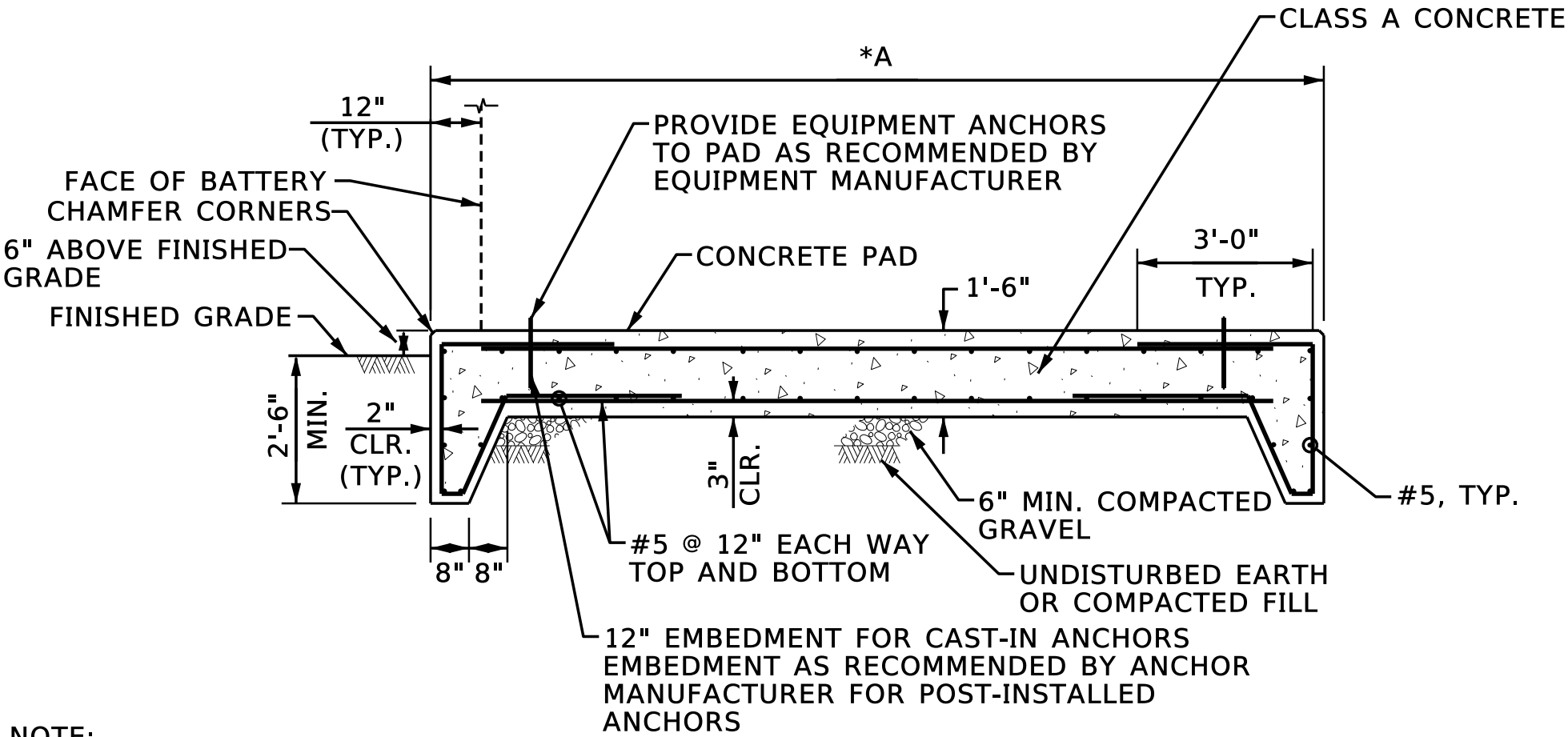
BASED ON HL-93 TRUCK LOAD

TRENCHING - STEEL PLATE DETAIL



PLAN

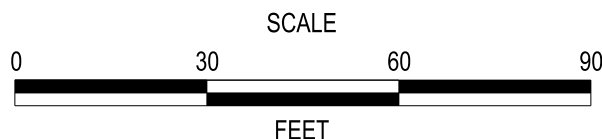
* SIZE OF PAD TO BE DETERMINED BY EQUIPMENT PROVIDED



BATTERY PAD DETAIL
NOT TO SCALE

- NOTE:
1. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 2. UNLESS NOTED OTHERWISE CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF NO LESS THAN 4000 PSI.
 3. CONCRETE IS TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE IMPOSING LOADS.
 4. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL FORM WORK.
 5. REBAR IS TO BE GRADE 60 PER ASTM A615.
 6. EQUIPMENT PADS TO BE INCIDENTAL TO 500KW BATTERY STORAGE SYSTEM. ITEM INCLUDES ALL MATERIALS, EXCAVATION, AND LABOR REQUIRED TO CONSTRUCT THE EQUIPMENT PAD.

ADDENDA / REVISIONS	



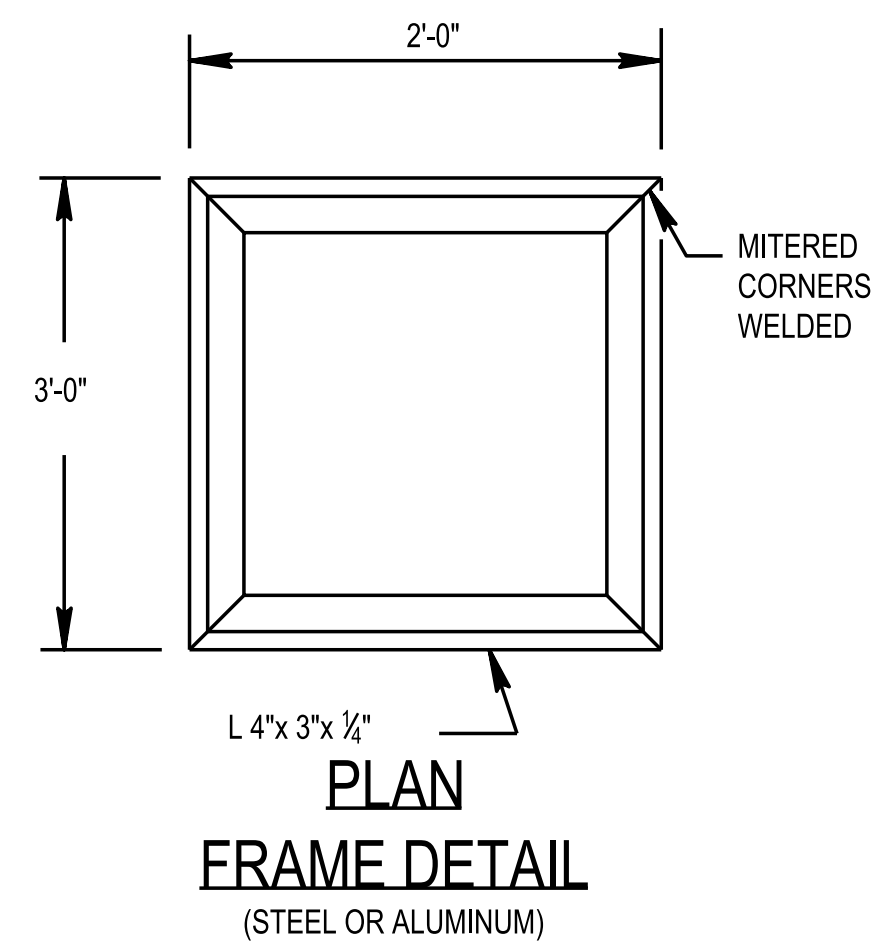
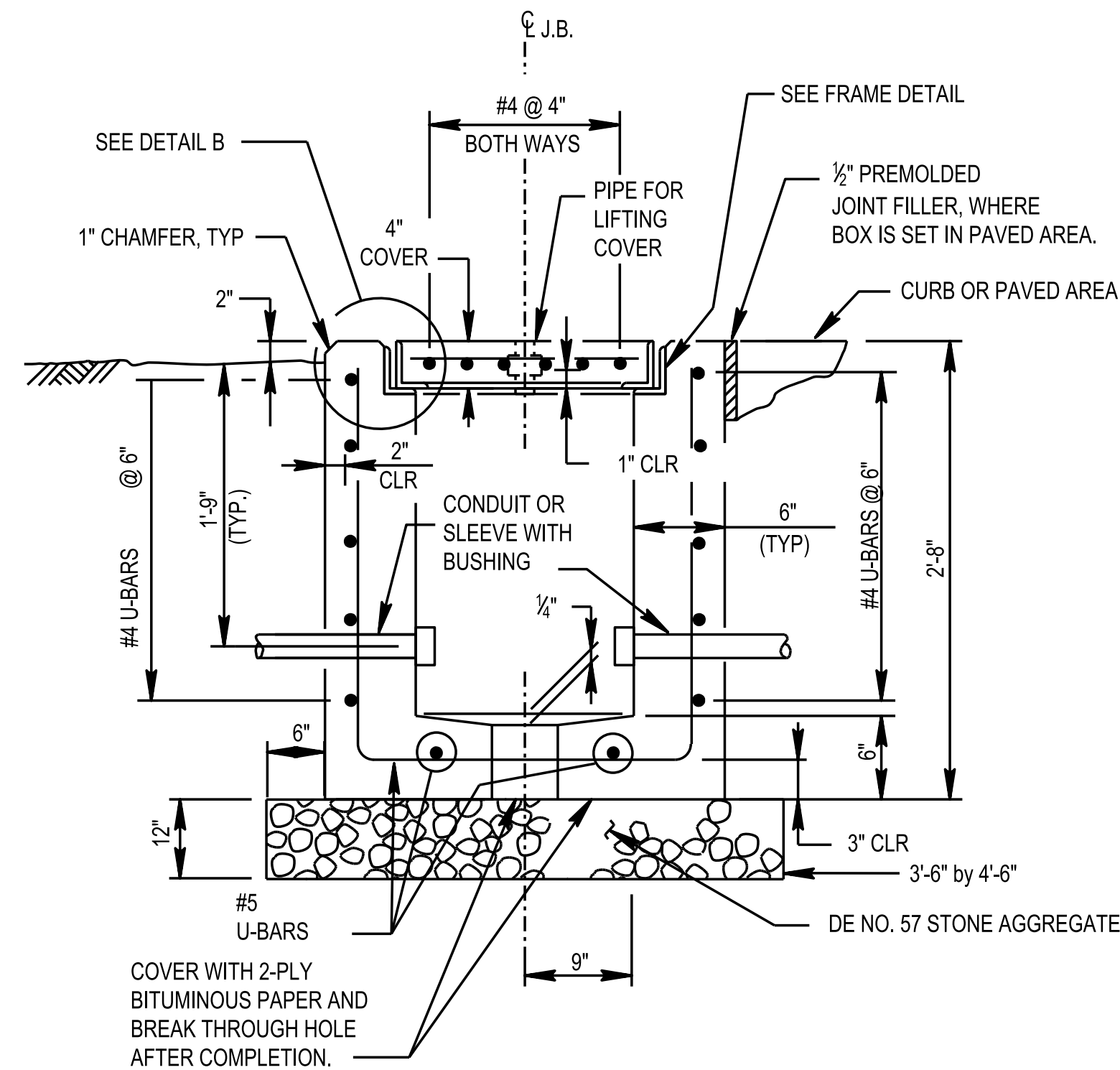
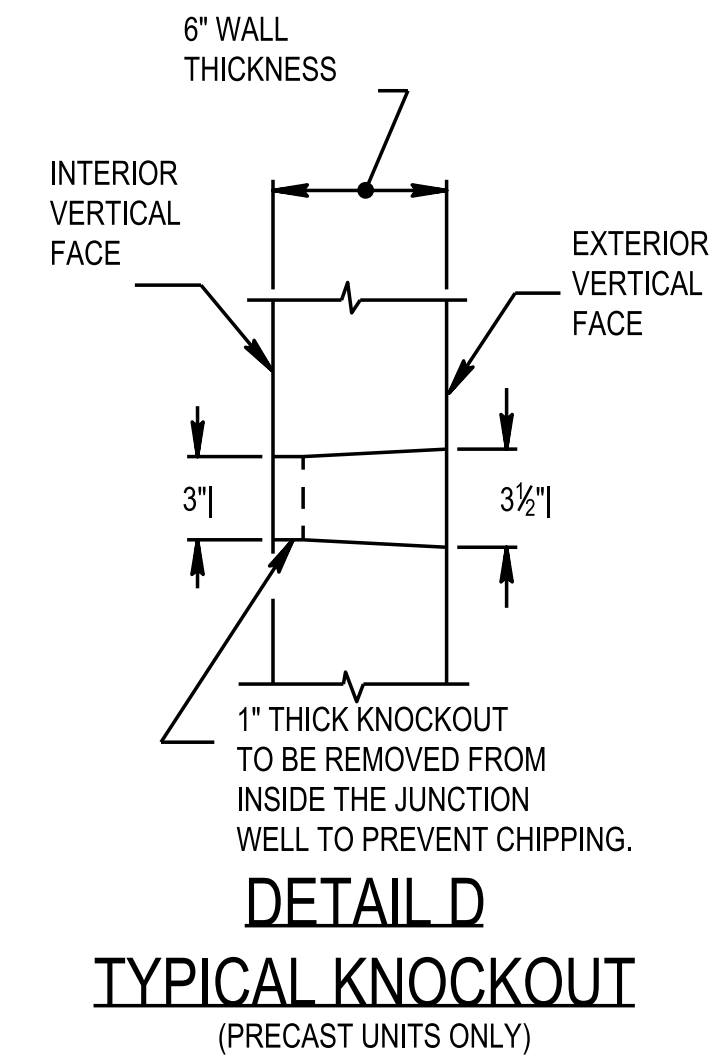
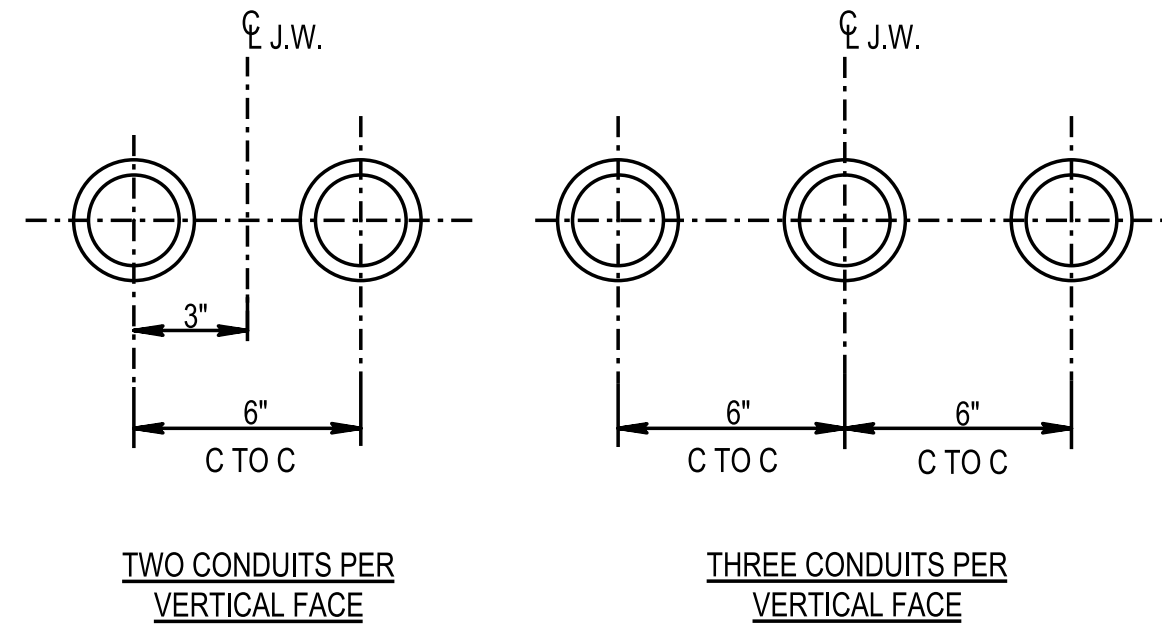
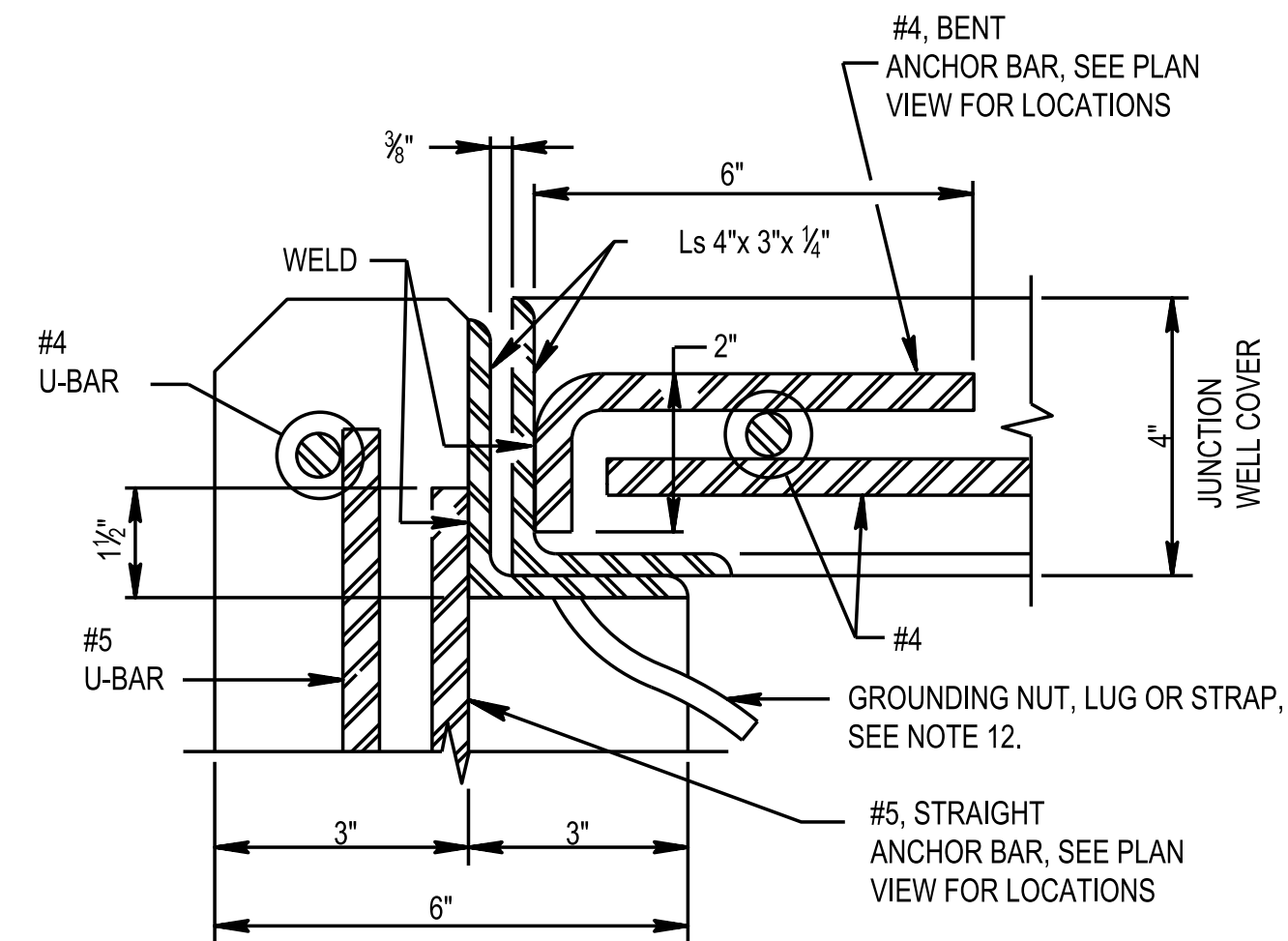
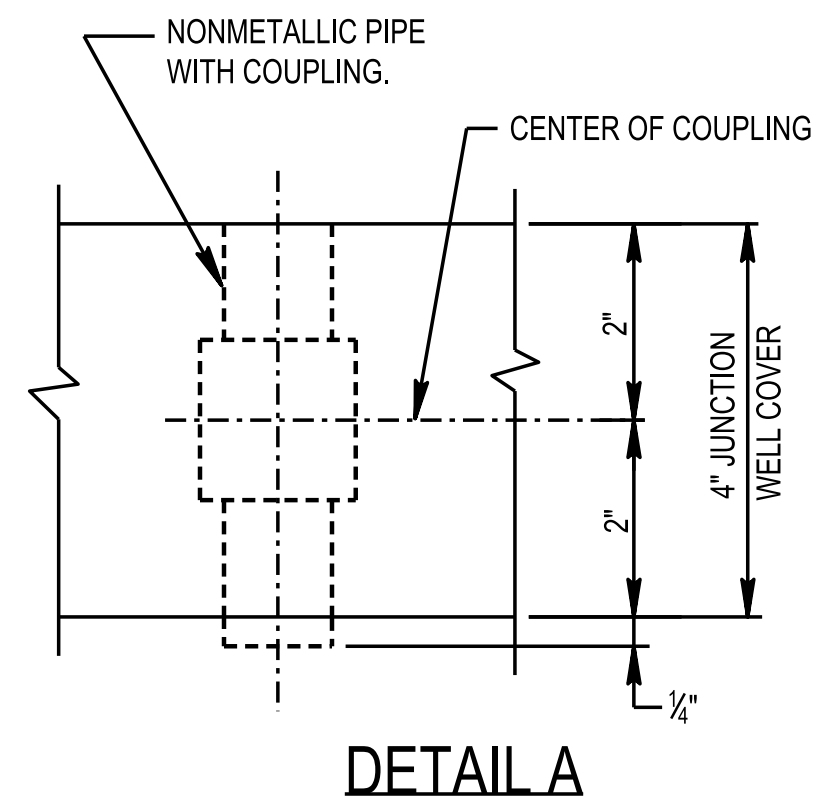
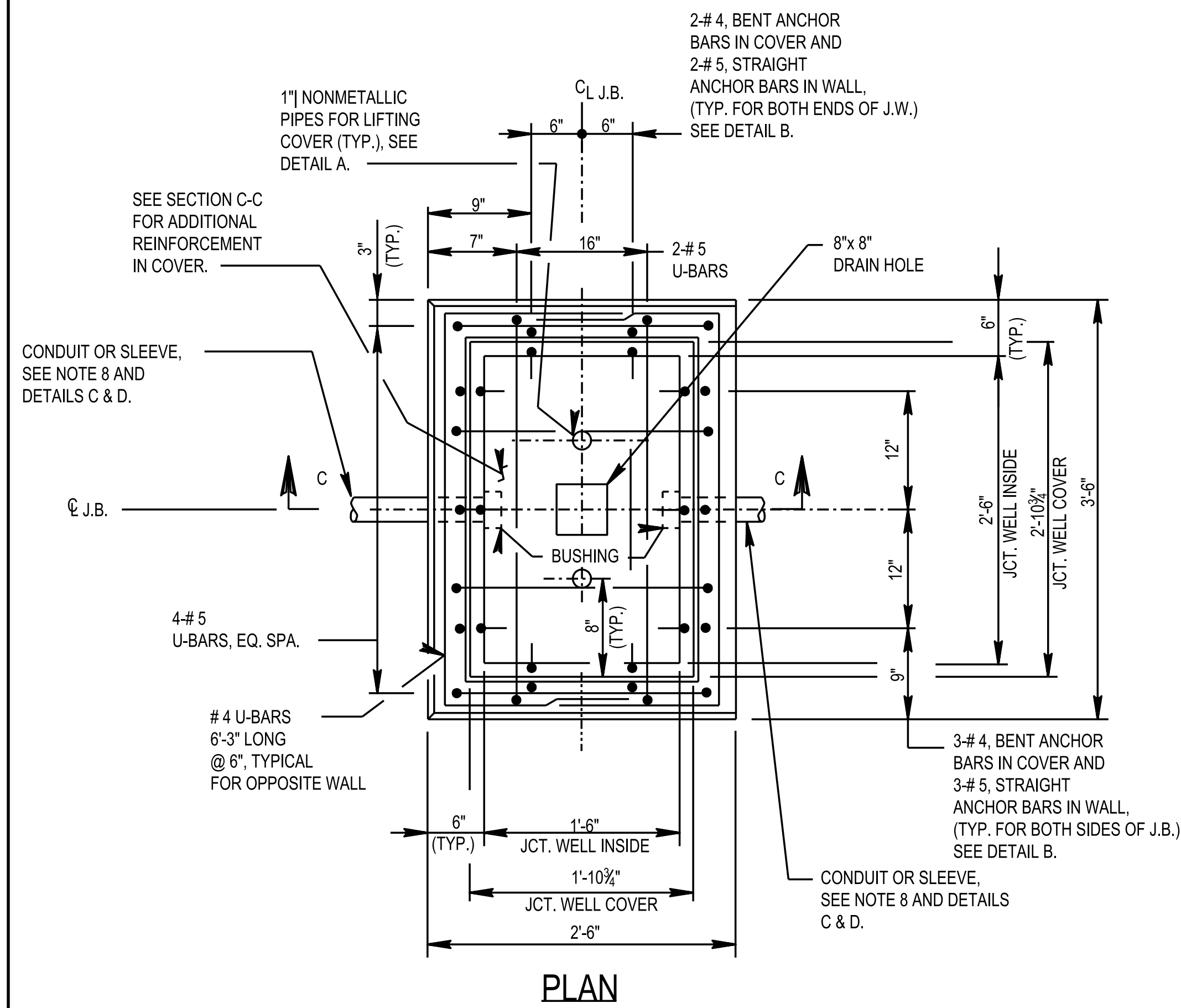
DOVER BUS CANOPY
SOLAR PANELS

CONTRACT	BRIDGE NO.	N/A
T202153104.03	DESIGNED BY:	P. REUTTER
COUNTY	CHECKED BY:	N. BERGERON
KENT		

CONSTRUCTION DETAILS

DT-02

SECTION
JMT
SHEET NO.
11



- ## NOTES

1. PROVIDE MATERIALS AND CONSTRUCT AS SPECIFIED IN THE SPECIAL PROVISION SPECIFICATION.
2. PROVIDE PRECAST CONCRETE JUNCTION WELLS SUPPLIED BY A MANUFACTURER FOLLOWING THE DESIGN DETAIL. FOR DEVIATION OR MODIFICATION OF THE STANDARDS, SUBMIT SHOP DRAWINGS FOR APPROVAL.
3. PROTECTIVE COATING - STEEL FRAME. HOT DIP GALVANIZE IN ACCORDANCE WITH SPECIAL PROVISION CONSTRUCTION METHOD.
4. COST OF DE NO. 57 STONE AGGREGATE IS INCIDENTAL JUNCTION WELL.
5. FOR THE LOCATION, SIZE AND NUMBER OF CONDUITS REQUIRED FOR EACH JUNCTION BOX, SEE THE ELECTRICAL PLANS.
6. THE CONDUIT LOCATIONS SHOWN REPRESENT NORMAL POSITIONS. FOR CAST-IN-PLACE OR PRECAST CONSTRUCTION, WHEN TWO OR THREE CONDUITS ARE INDICATED ON THE SAME VERTICAL FACE, SPACE CONDUITS AT 6" C TO C AND SYMMETRICAL ABOUT THE CENTERLINE OF THE BOX, AS INDICATED IN DETAIL C, WITH FULL WALL THICKNESS BETWEEN OPENINGS. PROVIDE KNUCKOUTS FOR PRECAST UNITS AS INDICATED IN DETAIL D AND LOCATE AS INDICATED IN DETAIL C. GROUT THE CONDUIT OR SLEEVE IN ACCORDANCE WITH SPECIFICATION.
7. PROVIDE POSITIVE DRAINAGE, 1.5"-2" NONMETALLIC CONDUIT, FOR JUNCTION BOXES WHEN FEASIBLE. PROVIDE RODENT PROOF DRAIN.
8. PROVIDE STRUCTURAL STEEL CONFORMING TO ASTM-A36/A36M. PROVIDE ALUMINUM CONFORMING TO ASTM-B221 ALLOY 6061 - T6.
9. PROVIDE AS A MINIMUM:
CLASS A CONCRETE FOR CAST-IN-PLACE WELLS AND
CLASS A CONCRETE FOR PRECAST WELLS.
10. GROUND EXPOSED METAL PARTS OF JUNCTION WELLS. DO NOT CONNECT GROUND WIRE DIRECTLY TO LID.
11. ALL REINFORCEMENT STEEL BARS SHOWN TO MEET ASTM A 615/A 615M, A 616/A 616M, A 706/A 706M AND A 996/A 996M.
12. ALL DIMENSIONS ARE IN U.S. CUSTOMARY UNITS UNLESS OTHERWISE NOTED.

ADDENDA / REVISIONS			DOVER BUS CANOPY SOLAR PANELS	CONTRACT	BRIDGE NO.	N/A	CONSTRUCTION DETAILS	SECTION
				T202153104.03	DESIGNED BY: P. REUTTER			JMT
				COUNTY				SHEET NO.
				KENT	CHECKED BY: N. BERGERON			12

EROSION AND SEDIMENT CONTROL NOTES

- THE DISTURBED AREA FOR THE PROJECT IS 0.6 ACRES.
1. THE DNREC SEDIMENT AND STORMWATER PROGRAM (OR DELEGATED AGENCY) SHALL BE NOTIFIED IN WRITING 5 DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN
2. REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
3. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY DNREC OR THE DELEGATED AGENCY.
4. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
6. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
7. APPROVAL OF A SEDIMENT AND STORMWATER MANAGEMENT PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
8. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY AGENCY CONSTRUCTION SITE REVIEWER.
9. BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7. DEL C. CH 60, REGULATIONS GOVERNING THE CONTROL OF WATER POLLUTION, SECTION 9.1.02, KNOWN AS SPECIAL CONDITIONS FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, AND DNREC POLICIES, PROCEDURES, AND GUIDANCE.

GENERAL CONSTRUCTION PHASING NOTES

1. UPON NTP THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE PRIOR TO ON-SITE PRE-CONSTRUCTION MEETING THAT MAINTAINS INTENT OF CONSTRUCTION PHASING AS SHOWN.
2. THE CONTRACTOR MUST MAINTAIN SITE SECURITY AT ALL TIMES DURING CONSTRUCTION. SITE FENCING, MOTION DETECTORS, AND SECURITY CAMERAS MUST BE REINSTALLED AT THE CONCLUSION OF EACH DAY. ANY DISRUPTION TO DTC'S OPERATIONS AND/OR SECURITY TO THE SITE MUST BE APPROVED BY THE ENGINEER.
3. THE OWNER IS NOT RESPONSIBLE/LIABLE FOR THE SAFETY/SECURITY OF CONTRACTOR MATERIALS AND EQUIPMENT.
4. THE CONTRACTOR SHALL NOT PARK ANY PERSONAL VEHICLES ON DELAWARE TRANSIT CORPORATION DURING CONSTRUCTION.
5. THE CONTRACTOR MUST MAINTAIN BUS CIRCULATION THROUGHOUT THE SITE AND MAINTAIN ACCESS TO EXISTING BUILDINGS MAINTAINENCE BAYS, BUS FUELING STATION AND BUS WASH AT ALL TIMES. ANY DISRUPTION TO DTC'S OPERATIONS AND/OR SECURITY TO THE SITE MUST BE APPROVED BY THE ENGINEER.
6. THE CONTRACTOR MUST PROVIDE WRITTEN NOTICE TO THE OWNER AND ENGINEER AT LEAST 48 HOURS IN ADVANCE OF AN POWER OUTAGE.
7. ALL TRENCHING ACTIVITIES TO INSTALL CONDUIT AND DRAINAGE MUST BE COORDINATED WITH THE OWNER AND THE ENGINEER TO MINIMZE IMPACTS TO DTC SITE OPERATIONS. STEEL PLATES MAY BE USED FOR SHORT DURATIONS TO MAINTAIN ACCESS.
8. ALLOWABLE WORK HOURS ARE 7 A.M. TO 6 P.M. MONDAY THROUGH SATURDAY. SUNDAY WORK HOURS MUST BE IN ACCORDANCE WITH CITY OF DOVER QUIET HOURS. ANY SUNDAY WORK MUST BE COORDINATED WITH DTC AT LEAST 1 MONTH IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES.
9. AREAS WHERE BUSSES WILL BE PARKED SHALL BE LIT AND COVERED WITH SECURITY CAMERAS AT ALL TIMES DURING CONSTRUCTION. RE-FEEDING EXISTING LIGHT POLES AND TEMPORARY LIGHT FIXTURES WILL BE REQUIRED TO MAINTAIN POWER TO EXISTING LIGHT POLES AND CAMERAS THAT ARE NOT LOCATED WITHIN THE CONSTRUCTION AREA.
10. THE CONTRACTOR MUST SCHEDULE A MEETING WITH ALL PARTIES AT THE CONCLUSION OF EACH PHASE AND PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES RELATED TO THE NEXT PHASE.
11. THE CONTRACTOR MUST SCHEDULE A MEETING WITH ALL PARTIES PRIOR TO ANY POTENTIAL INCLEMENT WEATHER.
12. THE CONTRACTOR MUST MAINTAIN ACCESS TO THE EXISTING BUS WASH DURING THE HOURS OF 2 P.M. TO 11 P.M. CONTRACTOR TO COORDINATE WITH DTC MAINTENANCE STAFF TO DETERMINE CONSTRUCTION LIMITS TO MAINTAIN BUS WASH ACCESS.

SITE CONSTRUCTION SEQUENCE

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS/SPECIFICATIONS FOR LONG LEAD ITEMS FOR REVIEW WITHIN 2 WEEKS OF NOTICE TO PROCEED.
2. OWNER SHALL NOTIFY THE DNREC SEDIMENT AND STORMWATER PROGRAM IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
3. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AND CONDUCTED WITH THE AGENCY CONSTRUCTION SITE REVIEWER. THE LANDOWNER/DEVELOPER, AND CONTRACTOR, ARE REQUIRED TO ATTEND THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMENDED TO ATTEND.
4. THE CONTRACTOR SHALL COORDINATE WITH DTC AND DELDOT.
5. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
6. INSTALL ALL EROSION AND SEDIMENT CONTROLS AS SHOWN.
- PHASE 1
7. INSTALL SILT FENCE. AFTER COORDINATION WITH DTC AND THE ENGINEER TO CONFIRM RELOCATION OF NECESSARY EQUIPMENT AND MATERIAL, CLOSE BUS PARKING ON THE NORTHERN PORTION OF THE EASTERN AISLE AND INSTALL TRAFFIC CONTROL DEVICES AS SHOWN.
8. INSTALL PROPOSED LIGHTING CONDUITS AND RE-FEED EXISTING LIGHT POLES AS SHOWN.
9. REMOVE EXISTING STRIPING, CONSTRUCT PROPOSED CANOPY FOUNDATIONS AND STRUCTURAL STEEL/ROOF DECK, INSTALL PROPOSED LIGHTING AND CCTV EQUIPMENT ON CANOPIES AND MAKE ALL UTILITY CONNECTIONS (INCLUDING UNDERGROUND CONDUITS TO BE COMPLETED/FED IN NEXT PHASE AND ACTIVATE PROPOSED LIGHTING). INSTALL CURB, FULL DEPTH PAVEMENT PATCHING, FOG SEAL PAVEMENT, AND INSTALL PERMANENT STRIPING.
10. REMOVE SILT FENCE ONCE WORK WITHIN PHASE 1 AREAS HAS BEEN COMPLETED AND STABILIZED AND APPROVAL FROM THE DNREC CONSTRUCTION SITE REVIEW HAS BEEN OBTAINED.

PHASE 2

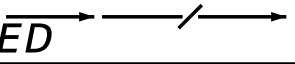
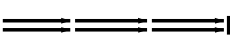
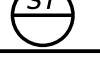
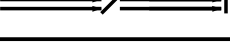
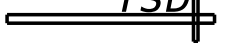
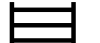
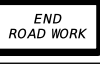
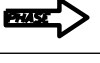
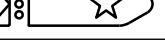
11. AFTER COORDINATION WITH THE ENGINEER TO CONFIRM RELOCATION OF NECESSARY EQUIPMENT AND MATERIAL, REOPEN BUS PARKING CLOSED IN PHASE 1; CLOSE BUS PARKING ON THE SOUTHERN PORTION OF THE EASTERN AISLE AND INSTALL TRAFFIC CONTROL DEVICES AS SHOWN.
12. INSTALL SILT FENCE. REMOVE EXISTING STRIPING. CONSTRUCT PROPOSED CANOPY FOUNDATIONS AND STRUCTURAL STEEL. INSTALL PROPOSED LIGHTING AND CCTV EQUIPMENT ON CANOPIES AND MAKE ALL UTILITY CONNECTIONS (INCLUDING UNDERGROUND CONDUITS AS SHOWN ON PHASE 2 PLAN AND ACTIVATE PROPOSED LIGHTING AND SECURITY CAMERAS), INSTALL CURB, FULL DEPTH PAVEMENT PATCHING, FOG SEAL PAVEMENT, AND INSTALL PERMANENT STRIPING.
13. REMOVE EXISTING FENCE, CONSTRUCT BATTERY FOUNDATION. CONSTRUCT PROPOSED FENCE AROUND BATTERY EQUIPMENT.
14. REMOVE SILT FENCE ONCE WORK WITHIN PHASE 2 AREAS HAS BEEN COMPLETED AND STABILIZED AND APPROVAL FROM THE DNREC CONSTRUCTION SITE REVIEW HAS BEEN OBTAINED.

PHASE 3

15. AFTER COORDINATION WITH THE ENGINEER TO CONFIRM RELOCATION OF NECESSARY EQUIPMENT AND MATERIAL, REOPEN BUS PARKING CLOSED IN PHASE 2; CLOSE THE SOUTHERN PORTION OF THE CENTER AISLE BUS PARKING AND INSTALL TRAFFIC CONTROL DEVICES AS SHOWN.
16. REMOVE EXISTING STRIPING. REMOVE EXISTING INLETS AND PIPE AS NOTED, CAP EXISTING PIPE TO REMAIN AND ABANDON BY FILLING WITH FLOWABLE FILL. CONSTRUCT PROPOSED CANOPY FOUNDATIONS AND STRUCTURAL STEEL/ROOF DECK, INSTALL PROPOSED LIGHTING AND CCTV EQUIPMENT ON CANOPIES AND MAKE ALL UTILITY CONNECTIONS (INCLUDING UNDERGROUND CONDUIT TO BE COMPLETED/FED IN NEXT PHASE AND ACTIVATE PROPOSED LIGHTING AND SECURITY CAMERAS), INSTALL CURB, FULL DEPTH PAVEMENT PATCHING, FOG SEAL PAVEMENT, AND INSTALL PERMANENT STRIPING.

PHASE 4 - PLANS NOT PROVIDED FOR THIS PHASE

17. REOPEN BUS PARKING CLOSED IN PHASE 3.
18. INSTALL SOLAR ARRAY ON ALL ROOF DECKING AND INSTALL BATTERIES. MAKE ALL UTILITY CONNECTIONS (INCLUDING UNDERGROUND CONDUITS).
19. INSTALL REMAINING EQUIPMENT ON CANOPIES AND MAKE ALL UTILITY CONNECTIONS (INCLUDING UNDERGROUND CONDUITS).
20. EROSION AND SEDIMENT CONTROL DEVICES TO BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED, WITH WRITTEN APPROVAL FROM THE DNREC CONSTRUCTION SITE REVIEWER.

EROSION & SEDIMENT CONTROL	
	COMPOST FILTER LOG
	COMPOST FILTER LOG / LENGTH
	CULVERT INLET PROTECTION
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	SILT FENCE - REINFORCED / LENGTH
	SILT FENCE - REINFORCED
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STABILIZATION MATTING, CHANNEL
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN
CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

PREPARED BY

JMT



THIS BEARING THE "JMT" SECTION DESIGNATION.

4-21-2025

DATE

SEAL

AMY FITZGERALD

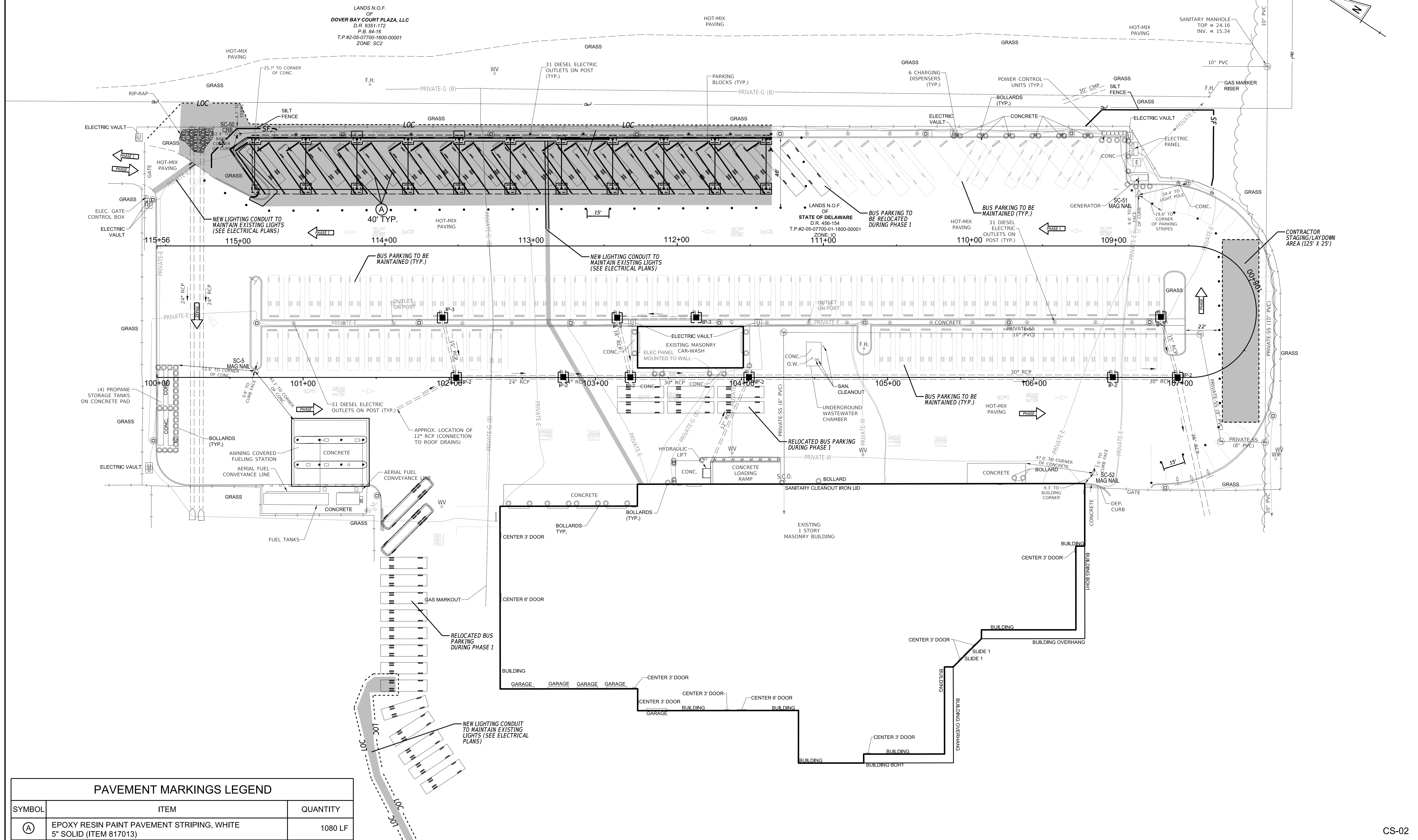
LICENSE #

No. 20171

DELAWARE

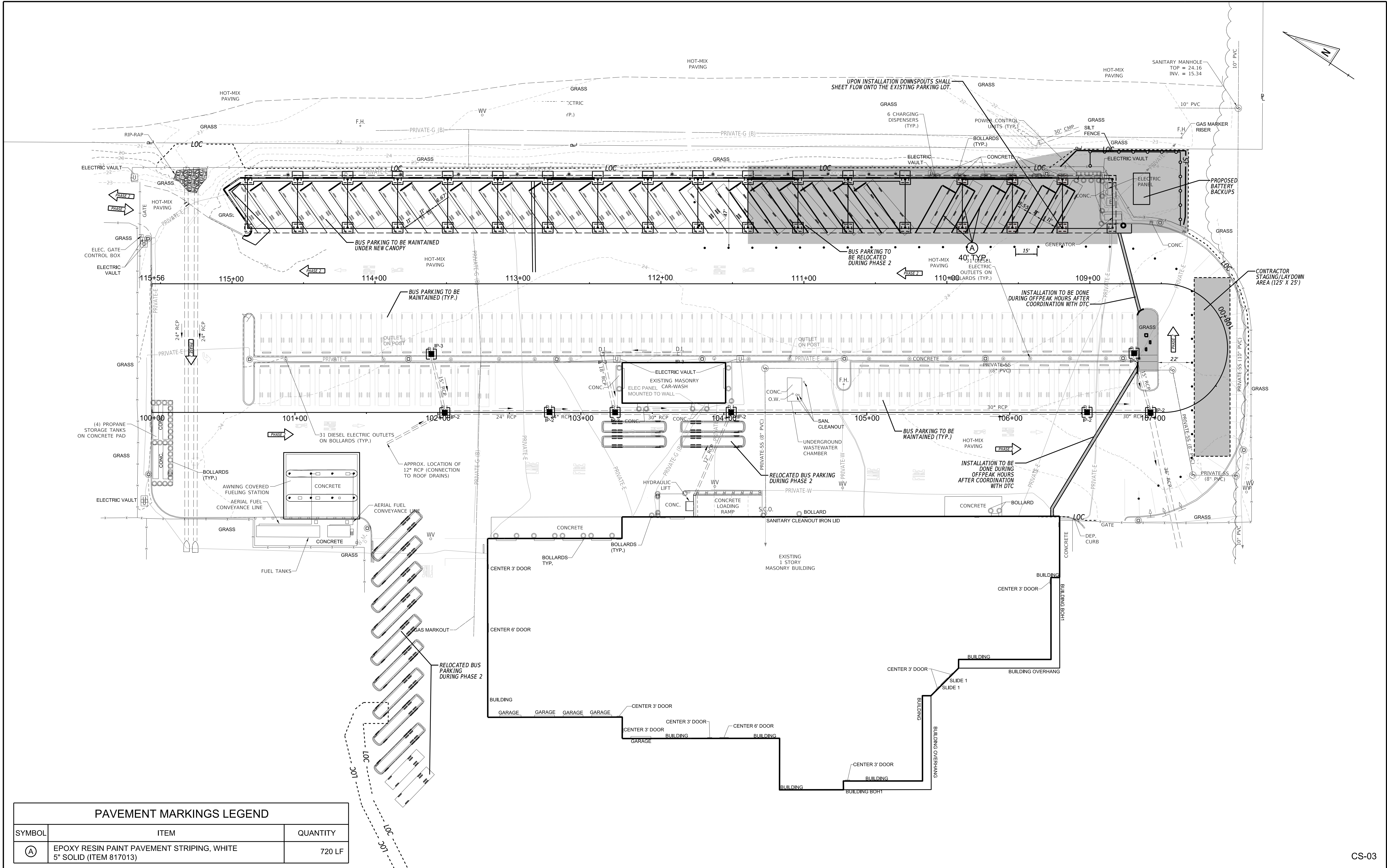
PROFESSIONAL ENGINEER

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN OF THESE PLANS MEETS THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS."



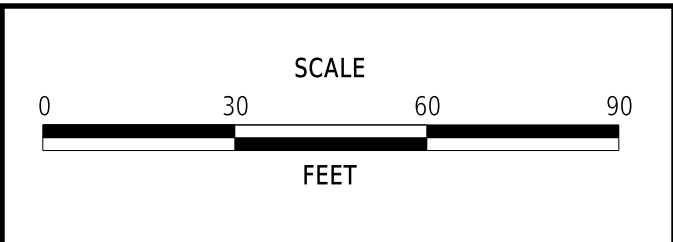
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	1080 LF

ADDENDA / REVISIONS			DOVER BUS CANOPY SOLAR PANELS	CONTRACT	BRIDGE NO.	N/A	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1	SECTION
				T202153104.03	DESIGNED BY: P. REUTTER			JMT
				COUNTY	CHECKED BY: N. BERGERON			SHEET NO.
				KENT				14



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	720 LF

ADDENDA / REVISIONS	



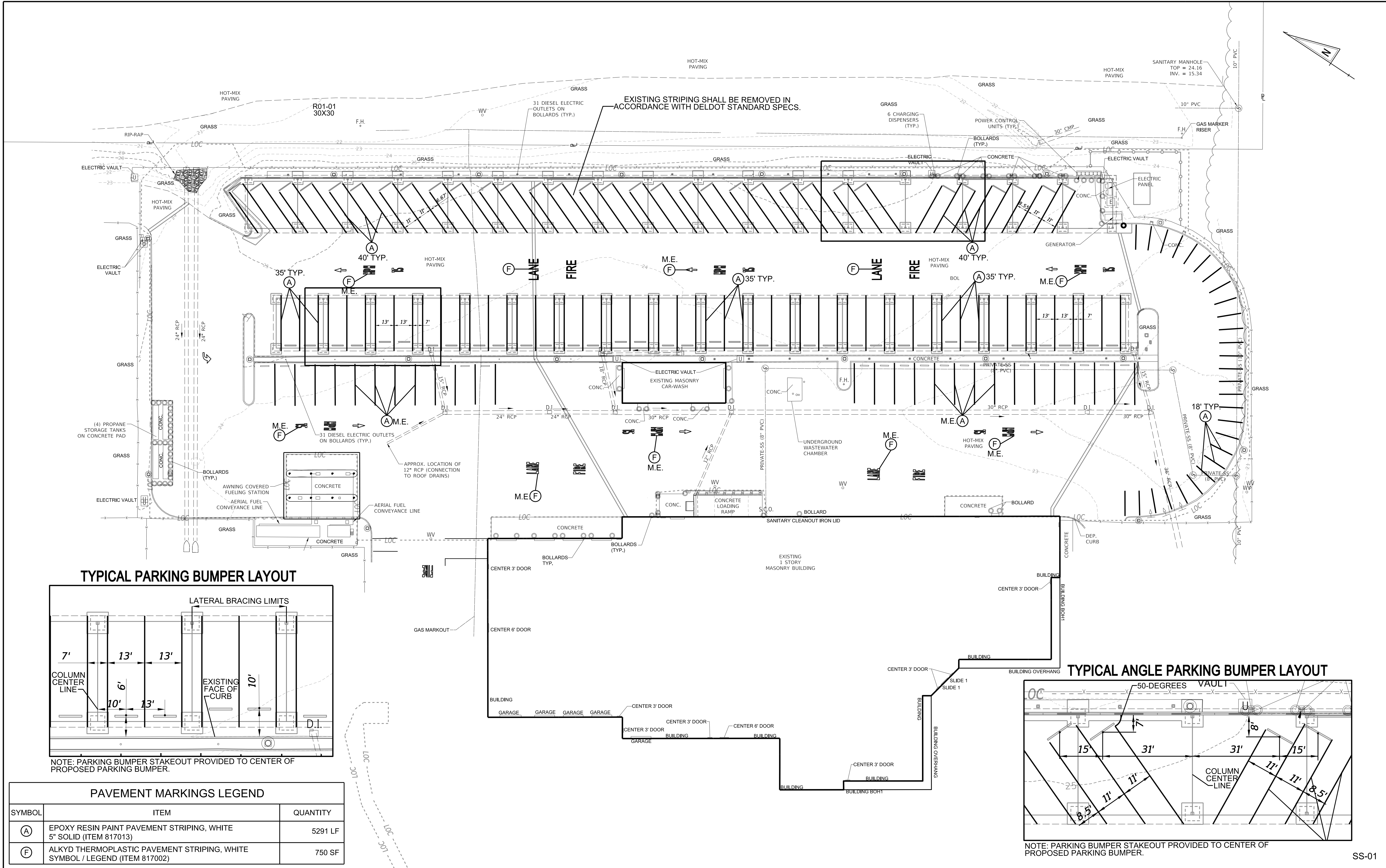
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COUNTY KENT	

BRIDGE NO.	N/A
DESIGNED BY:	P. REUTTER
CHECKED BY:	N. BERGERON

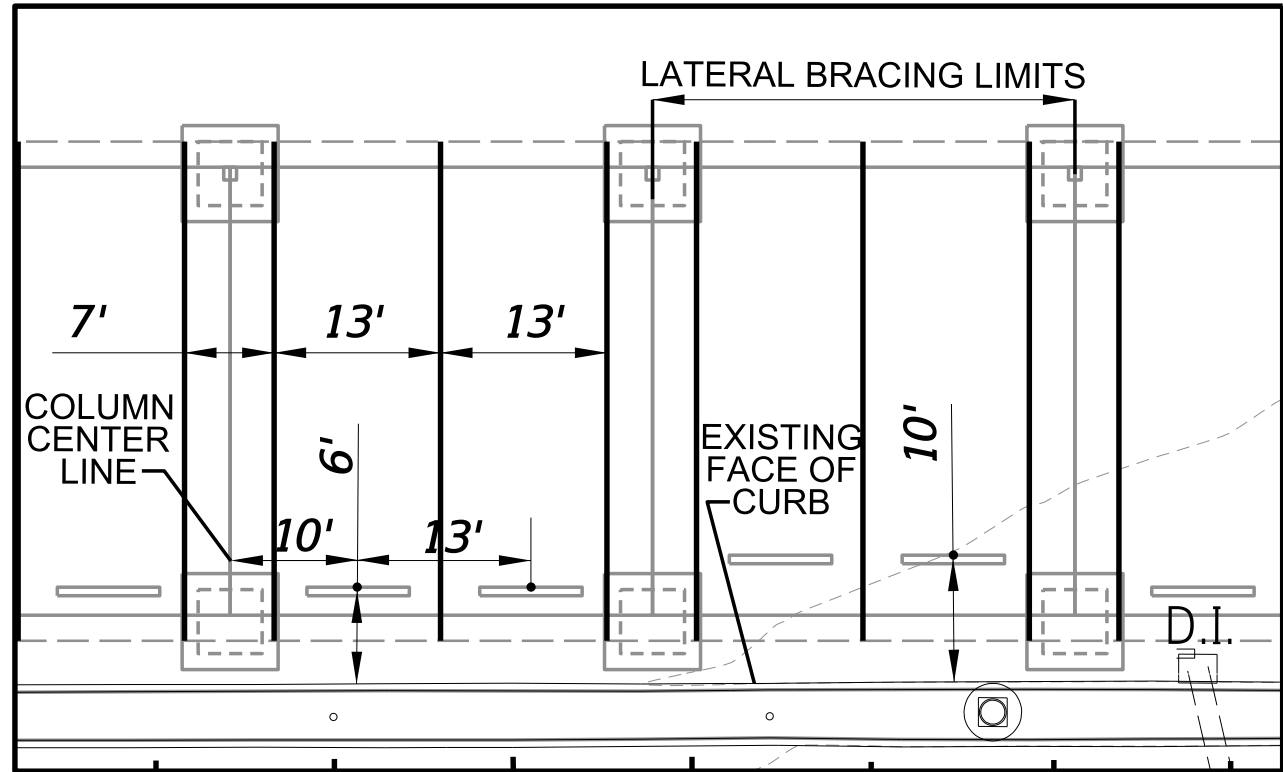
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SECTION JMT
SHEET NO. 15

CS-03

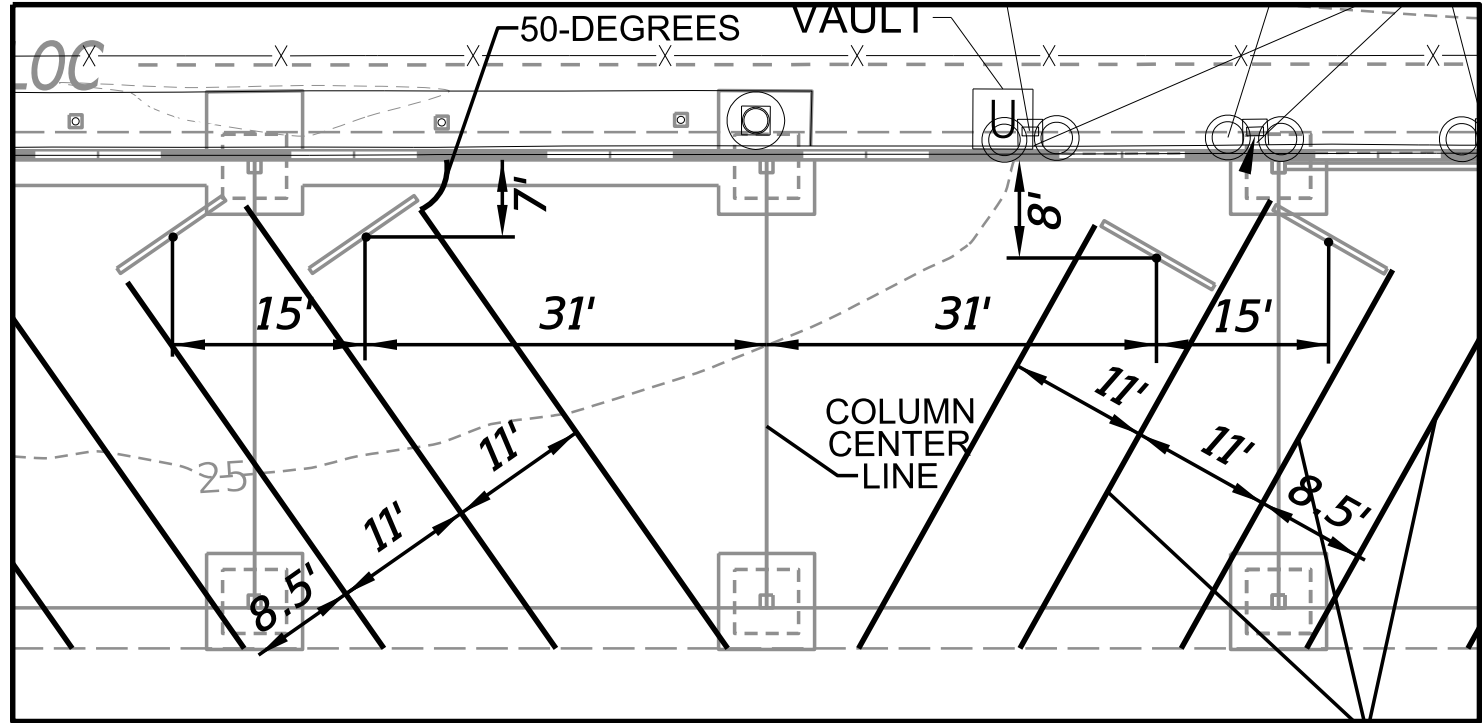


TYPICAL PARKING BUMPER LAYOUT



NOTE: PARKING BUMPER STAKEOUT PROVIDED TO CENTER OF PROPOSED PARKING BUMPER.

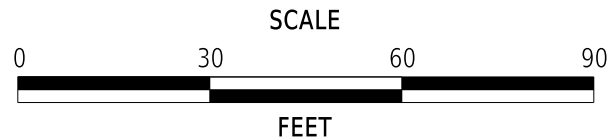
TYPICAL ANGLE PARKING BUMPER LAYOUT



NOTE: PARKING BUMPER STAKEOUT PROVIDED TO CENTER OF PROPOSED PARKING BUMPER.

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	5291 LF
(F)	ALKYD THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL / LEGEND (ITEM 817002)	750 SF

ADDENDA / REVISIONS



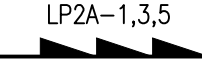
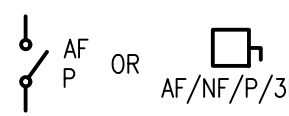
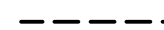
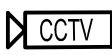
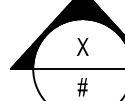
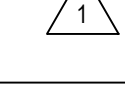
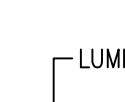
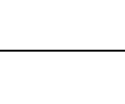
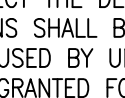
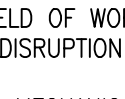
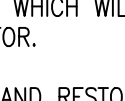
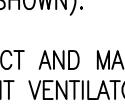
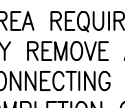
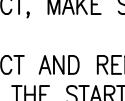
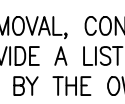
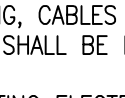
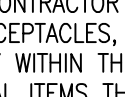
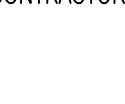
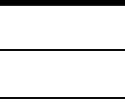
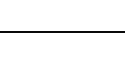
DOVER BUS CANOPY
SOLAR PANELS

CONTRACT	BRIDGE NO.	N/A
T202153104.03	DESIGNED BY:	P. REUTTER
COUNTY	CHECKED BY:	N. BERGERON
KENT		

SIGNING AND
STRIPING PLAN

SECTION
JMT
SHEET NO.
18

SS-01

SYMBOL LEGEND		GENERAL ABBREVIATIONS		ELECTRICAL CONVENTIONS		GENERAL NOTES			
SYMBOL	DESCRIPTION	A	AMPERES	WIRING		1. THE SCOPE OF WORK CONSISTS OF FURNISHING AND INSTALLING OF A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. THE CONTRACTOR SHALL PROVIDE SUPERVISION, LABOR, MATERIALS, EQUIPMENT, MACHINERY, ADDITIONAL DESIGN AND ALL INCIDENTALS NECESSARY TO COMPLETE THE ELECTRICAL SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE NUMBER OF ITEMS OF EQUIPMENT AS INDICATED ON THE DRAWINGS AND/OR AS REQUIRED FOR A COMPLETE SYSTEM. COORDINATE WORK TO BE PERFORMED OR INSTALLED BY OTHERS AFFECTING ELECTRICAL WORK AND PROVIDE AND INSTALL ALL NECESSARY ANCHORS, SLEEVES, HANGERS, ACCESSORIES, ETC. FOR ATTACHING OR CONNECTING ELECTRICAL WORK TO RELATED WORK OF OTHER TRADES. ALL WORK SHALL BE PERFORMED BY A QUALIFIED ELECTRICAL CONTRACTOR LICENSED IN THE STATE OF DELAWARE THAT HAS PREVIOUSLY PERFORMED WORK OF THIS SIZE AND TYPE. 2. REFER TO THE SPECIFICATIONS THAT ARE PART OF THIS CONTRACT AND ARE COMPLEMENTARY TO THESE GENERAL NOTES. IN CASE OF A CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER. 3. PERFORM WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: a. THE 2020 VERSION OF N.E.C., AND LOCAL N.E.C. AMENDMENTS. b. ALL LOCAL CODES. c. NFPA 72 AND THE LATEST VERSION OF THE LOCALLY RECOGNIZED BUILDING CODE. d. THE AMERICANS WITH DISABILITIES ACT (ADA). e. THE 2021 IECC CODE. d. NATIONAL ELECTRICAL SAFETY CODE. 4. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL COMPLETE AND READY FOR USE." CONTRACTOR SHALL PROVIDE ALL TESTING AND INSTRUCTION REQUIRED FOR OPERATION AND MAINTENANCE OF EQUIPMENT AND SYSTEM BY OWNER UNLESS OTHERWISE NOTED. 5. MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CBM APPROVED FOR INTENDED SERVICE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE. 6. ELECTRICAL DRAWINGS WHICH CONSTITUTE A PART OF THIS CONTRACT ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND OUTLETS, LOCATIONS OF SWITCHES, PANELBOARDS CONDUIT AND OTHER WORK. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AT NO EXTRA COST. 7. CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS TO FAMILIARIZE HIMSELF WITH ALL ASPECTS OF THOSE DESIGNS AFFECTING HIS WORK. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL OTHER TRADES. 8. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIAL, LABOR AND ALL INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY CALLED FOR OR NOT. ALL ERROR, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE VISIT BY THE CONTRACTOR. 9. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE REQUIRED NOTICES, PERMITS, LICENSES, FEES, BACK CHARGES AND APPROVALS REQUIRED FOR THIS PROJECT. 10. THE CONTRACTOR SHALL MAINTAIN AT THE SITE FOR THE OWNER ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, APPROVED SHOP OR SETTING DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES AS THEY OCCUR DURING CONSTRUCTION. THESE SHALL BE AVAILABLE TO THE ARCHITECT/ENGINEER, THE OWNER, THE PROJECT INSPECTOR, THE OWNER'S OTHER INSPECTORS AND TO THE OWNER'S TESTING PERSONNEL. THE DRAWINGS SHALL BE NEATLY AND CLEARLY MARKED IN COLOR DURING CONSTRUCTION TO RECORD ALL VARIATIONS MADE DURING CONSTRUCTION. THE REPRESENTATION OF SUCH VARIATIONS SHALL INCLUDE SUCH SUPPLEMENTARY NOTES, SYMBOLS, LEGENDS, AND DETAILS AS MAY BE NECESSARY TO CLEARLY SHOW THE AS-BUILT CONSTRUCTION. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL DELIVER TO THE ARCHITECT/ENGINEER, ONE COMPLETE SET OF "AS-BUILT DRAWINGS" 11. ALL WORKMANSHIP, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER ACCEPTANCE OF AREA BY OWNER. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER DURING THE GUARANTEE PERIOD. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER. 12. SUBMIT GUARANTEE TO CONTRACT OFFICER BEFORE FINAL PAYMENT. 13. STATEMENT OF GUARANTEE REQUIREMENTS SHALL NOT BE INTERPRETED TO LIMIT OWNER'S RIGHTS UNDER LAW AND THIS CONTRACT. 14. ADDRESS QUESTIONS REGARDING DRAWINGS TO ENGINEER IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, ENGINEER INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL. 15. THE CONSTRUCTION ADMINISTRATION PHASE SERVICES ARE INTENDED TO BENEFIT THE CLIENT ONLY. SERVICES RENDERED BY ENGINEER DO NOT RELIEVE CONTRACTOR FROM OBLIGATIONS UNDER THE CONSTRUCTION DOCUMENTS. ENGINEER DOES NOT HAVE AUTHORITY TO SUPERVISE, DIRECT OR CONTROL CONTRACTOR, AND IS NOT RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION OR FOR SAFETY PROGRAMS OR PRECAUTIONS DURING CONSTRUCTION. NOR IS ENGINEER RESPONSIBLE FOR CONTRACTORS FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS OR APPLICABLE LAWS OR CODES. 16. SUBMIT SHOP DRAWINGS AND PRODUCT DATA WITHIN 21 DAYS AFTER AWARD OF CONTRACT. CHECK, STAMP AND MARK WITH PROJECT NAMES SUBMITTALS BEFORE TRANSMITTING TO ARCHITECT. INDICATE DEVIATIONS FROM CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL EQUIPMENT SHOWN ON THE DRAWINGS. SUBMITTALS SHALL BE APPROVED BY THE ENGINEER BEFORE PURCHASE OF MATERIALS. 17. DEVIATION FROM CONTRACT DOCUMENTS, OR PROPOSED SUBSTITUTION OF MATERIALS OR EQUIPMENT FOR THOSE SPECIFIED, SHALL BE REQUESTED IN SEPARATE LETTER, WHETHER DEVIATIONS ARE DUE TO FIELD CONDITIONS, STANDARD SHOP PRACTICE, OR OTHER CAUSE. 18. SCHEDULE AT LEAST TEN WORKING DAYS, EXCLUSIVE OF TRANSMITTAL TIME FOR SUBMITTAL REVIEW. 19. ALL WORK SHALL BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR AND MECHANICAL APPEARANCE WHEN COMPLETED. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. THIS SHALL INCLUDE PROVIDING CLEARANCES AS DEFINED IN THE INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH NEC REQUIREMENTS. PROVIDE ALL AUXILIARY ITEMS REQUIRED TO PERFORM FUNCTION INTENDED. 20. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE AND SHALL BE PERFORMED IN ACCORDANCE WITH ALL BUILDING RULES AND REGULATIONS AS PROVIDED BY THE BUILDING OWNER. 21. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. 22. THE CONTRACTOR SHALL NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS DONE SO STRICTLY TO COMPLY WITH THE NATIONAL ELECTRIC CODE REQUIREMENTS FOR APPLYING ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY. 23. ALL CONDUCTORS SHALL BE COPPER, MINIMUM SIZE CONDUCTOR SHALL BE NO. 12 AWG WITH 600 VOLT TYPE "THWN" INSULATION, RATED MINIMUM 75° C. AND ROUTED IN CONDUIT. CONDUCTORS NO. 8 AWG AND LARGER SHALL BE STRANDED. THE USE OF ALUMINUM CONDUCTORS SHALL NOT BE ACCEPTABLE. 24. ALL 120 VOLT CIRCUIT HOME RUNS WHICH ARE OVER 75 LINEAR FEET SHALL BE #10 CONDUCTORS MINIMUM. CONTRACTOR SHALL INCREASE WIRE SIZE AS REQUIRED TO MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%. 25. COLOR CODING AND LABELING OF UTILITIES SHALL BE ACCOMPLISHED PER THE REQUIREMENTS OF UTILITY COMPANY.			
	HAND HOLE	ADA	AMERICANS WITH DISABILITIES ACT						
	NON-FUSED DISCONNECT SWITCH, SIZE AS INDICATED WHERE: "AF" - INDICATES AMPERE SWITCH SIZE "NF" - DENOTES NON-FUSED "P" - DENOTES POLE "3R" - DENOTES NEMA TYPE ENCLOSURE	AF	ABOVE FINISH FLOOR						
	TRANSFORMER	AL	ALUMINUM						
	CIRCUIT BREAKER	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE						
	INVERTER	AWG	AMERICAN WIRE GAUGE						
	DELTA CONFIGURATION	BESS	BATTERY ENERGY STORAGE SYSTEM						
	START (WYE) CONFIGURATION	BFG	BELOW FINISH GRADE						
	ELECTRICAL PHASE	BLDG	BUILDING						
	SECURITY CAMERA	CB	CIRCUIT BREAKER						
	UTILITY METER	CKT	CIRCUIT						
	CURRENT TRANSFORMER	CU	COPPER						
		DWG	DRAWING						
		EC	ELECTRICAL CONTRACTOR						
		ECC	ENERGY CONTROL CENTER						
		ECB	ENCLOSED CIRCUIT BREAKER						
		EM	EMERGENCY						
		EMT	ELECTRICAL METALLIC TUBING						
		ETR	EXISTING TO REMAIN						
		EX	EXISTING						
		FLA	FULL LOAD AMPERES						
		FMC	FLEXIBLE METAL CONDUIT						
		FT	FEET						
		G,GND	GROUND OR GROUNDING						
		HOA	HAND, OFF, AUTOMATIC SWITCH						
		IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS						
		INV	INVERTER						
		KMIL	THOUSAND CIRCULAR MILS						
		KVA	KILOVOLT AMPERES						
		KW	KILOWATTS						
		MCB	MAIN CIRCUIT BREAKER						
		MISC	MISCELLANEOUS						
		MLO	MAIN LUGS ONLY						
		NC	NORMALLY CLOSED						
		NEC	NATIONAL ELECTRIC CODE						
		NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION						
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION						
		NO	NORMALLY OPEN OR NUMBER						
		NTS	NOT TO SCALE						
		P	POLE						
		PNL	PANEL						
		PV	PHOTOVOLTAIC						
		PVC	POLYVINYL CHLORIDE						
		PWR	POWER						
		QTY	QUANTITY						
		RMC	RIGID METAL CONDUIT						
		RX	REMOVE EXISTING						
		SW	SWITCH						
		UL	UNDERWRITERS LABORATORIES						
		V	VOLT						
		WP	WEATHERPROOF						
		XFMR	TRANSFORMER						

COORDINATE WITH CANOPY

6'-8"

6'-6"

6'-0"

4'-0"

1'-6"

← SITE LIGHTING

← TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, CONTACTORS, VFCs.

← GFCI/MP RECEPTACLES

MOUNTING NOTES:

1. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.

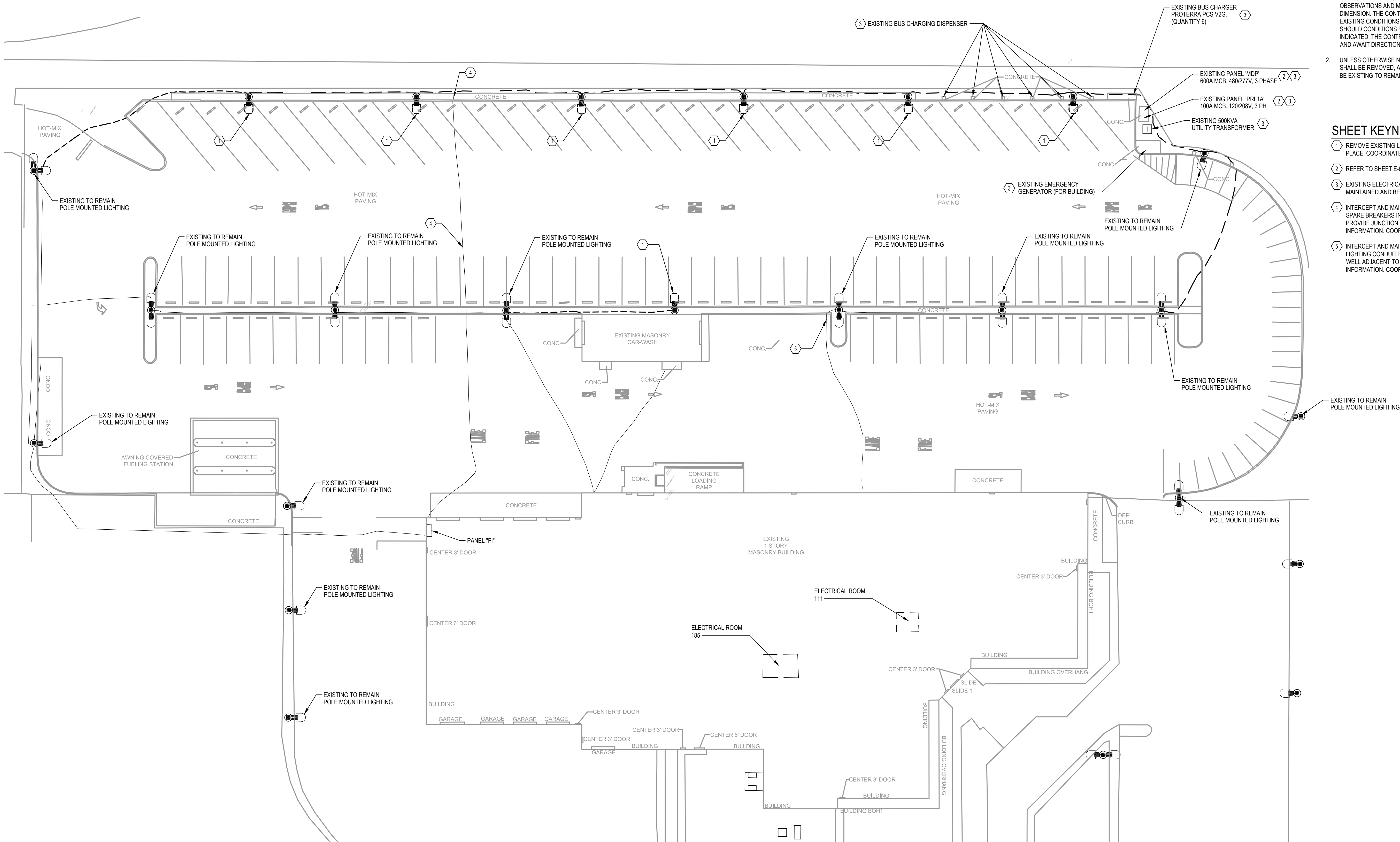
ADDENDUMS / REVISIONS		CONTRACT		BRIDGE NO.		N/A		E-001	
		T202153104.02		DESIGNED BY: JRM				SECTION	
		COUNTY		CHECKED BY: JL				JMT	
		KENT						SHEET NO.	
								19	

DOVER BUS CANOPY
SOLAR PANELS

ELECTRICAL GENERAL
NOTES, SYMBOLS,
AND ABBREVIATIONS

Q:\2018\1802769_026_Dover_Bus_Canopy_So\CADD\Elec\ED-101 - ELECTRICAL SITE PLAN - DEMOLITION.dwg

JMT



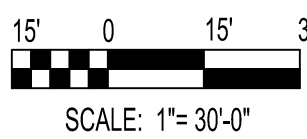
GENERAL SHEET NOTES:

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAVE BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
2. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (——) SHALL BE EXISTING TO REMAIN.

SHEET KEYNOTES:

- 1 REMOVE EXISTING LIGHT POLE. CONDUIT BETWEEN POLES SHALL BE ABANDONED IN PLACE. COORDINATE WITH CIVIL SITE PLAN FOR PHASING REQUIREMENTS.
- 2 REFER TO SHEET E-601 FOR EXISTING SINGLE LINE DIAGRAM.
- 3 EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT AND CHARGERS WILL BE MAINTAINED AND BE KEPT OPERATIONAL.
- 4 INTERCEPT AND MAINTAIN EXISTING CONDUIT FOR NEW CCTV EQUIPMENT. USE SPARE BREAKERS IN PANEL FI FOR NEW CANOPY MOUNTED CCTV EQUIPMENT. PROVIDE JUNCTION WELL AT THIS LOCATION. SEE SHEET E-101 FOR ADDITIONAL INFORMATION. COORDINATE WITH CIVIL PLANS.
- 5 INTERCEPT AND MAINTAIN CONDUIT FOR EXISTING SITE LIGHTING. RE-USE EXISTING LIGHTING CONDUIT FOR NEW CANOPY MOUNTED LIGHTING. PROVIDE JUNCTION WELL ADJACENT TO EXISTING POLE. SEE SHEET E-101 FOR ADDITIONAL INFORMATION. COORDINATE WITH CIVIL PLANS FOR PHASING REQUIREMENT.

1
ED-101
ELECTRICAL SITE PLAN - DEMOLITION
SCALE: 1" = 30'-0"



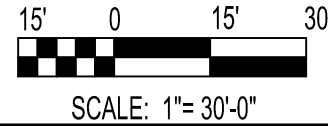
DOVER BUS CANOPY
SOLAR PANELS

CONTRACT	BRIDGE NO.	N/A
T202153104.02	DESIGNED BY:	JRM
COUNTY	CHECKED BY:	JL
KENT		

ELECTRICAL SITE
PLAN - DEMOLITION

ED-101
SECTION
JMT
SHEET NO.
20

1 ELECTRICAL SITE PLAN - NEW WORK
E-101 SCALE: 1"= 30'-0"



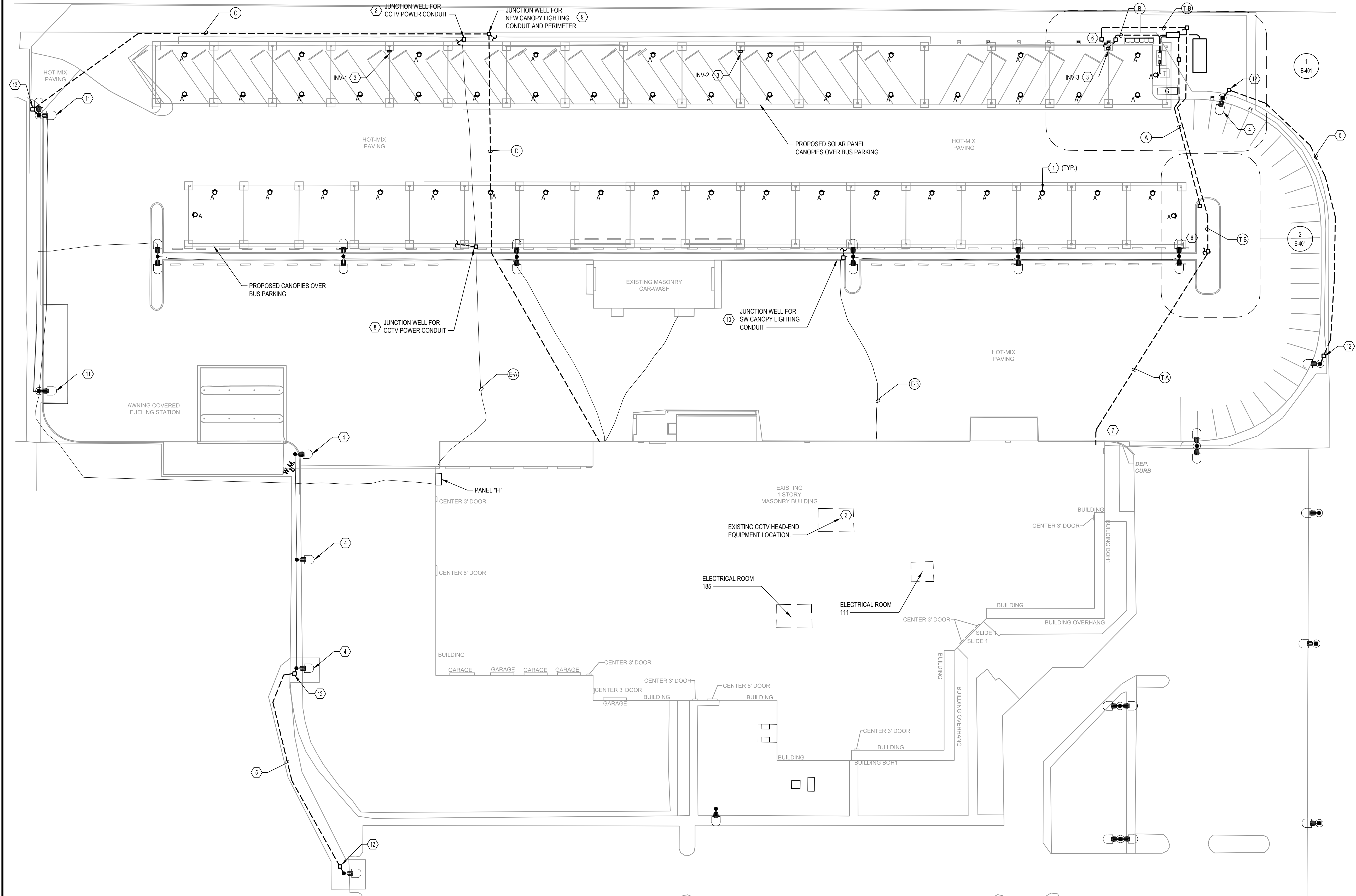
ADDENDUMS / REVISIONS

DOVER BUS CANOPY
SOLAR PANELS

CONTRACT	BRIDGE NO.	N/A
T202153104.02	DESIGNED BY:	JRM
COUNTY	CHECKED BY:	JL
KENT		

ELECTRICAL SITE
PLAN - NEW

E-101
SECTION
JMT
SHEET NO.
21



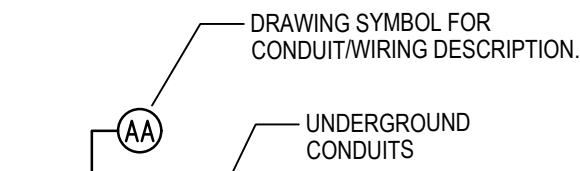
GENERAL SHEET NOTES:

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
2. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY SOLID () SHALL BE NEW, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID () SHALL BE EXISTING TO REMAIN.
3. ALL WIRING SHALL BE INSTALLED IN CONDUIT, INCLUSIVE OF LOW VOLTAGE/CONTROL WIRING. BURIED CONDUIT SHALL BE PVC SCHEDULE 40. CONDUIT SHALL BE ENCASED IN CONCRETE UNDER DRIVE AISLES AND PARKING AREAS, AND DIRECT BURIED IN ALL OTHER AREAS.
4. COORDINATE EXACT LOCATIONS OF DIRECT BURIES DUCTBANKS WITH DTC.
5. REFER TO SHEET E-601 FOR ELECTRICAL PANEL SCHEDULES, SINGLE LINE, AND FIXTURE SCHEDULES.
6. COMMUNICATIONS DUCTBANK SHALL HAVE AT LEAST 12 INCHES OF SEPARATION FROM POWER DUCTBANK.
7. CONTRACTOR SHALL SUPPORT CONDUITS AS REQUIRED BY NEC.
8. REFER TO SHEET DT-02 FOR TRAFFIC RATED JUNCTION WELL DETAILS WITHIN PARKING LOT LIMITS. COORDINATE WITH CIVIL PLANS.

SHEET KEYNOTES:

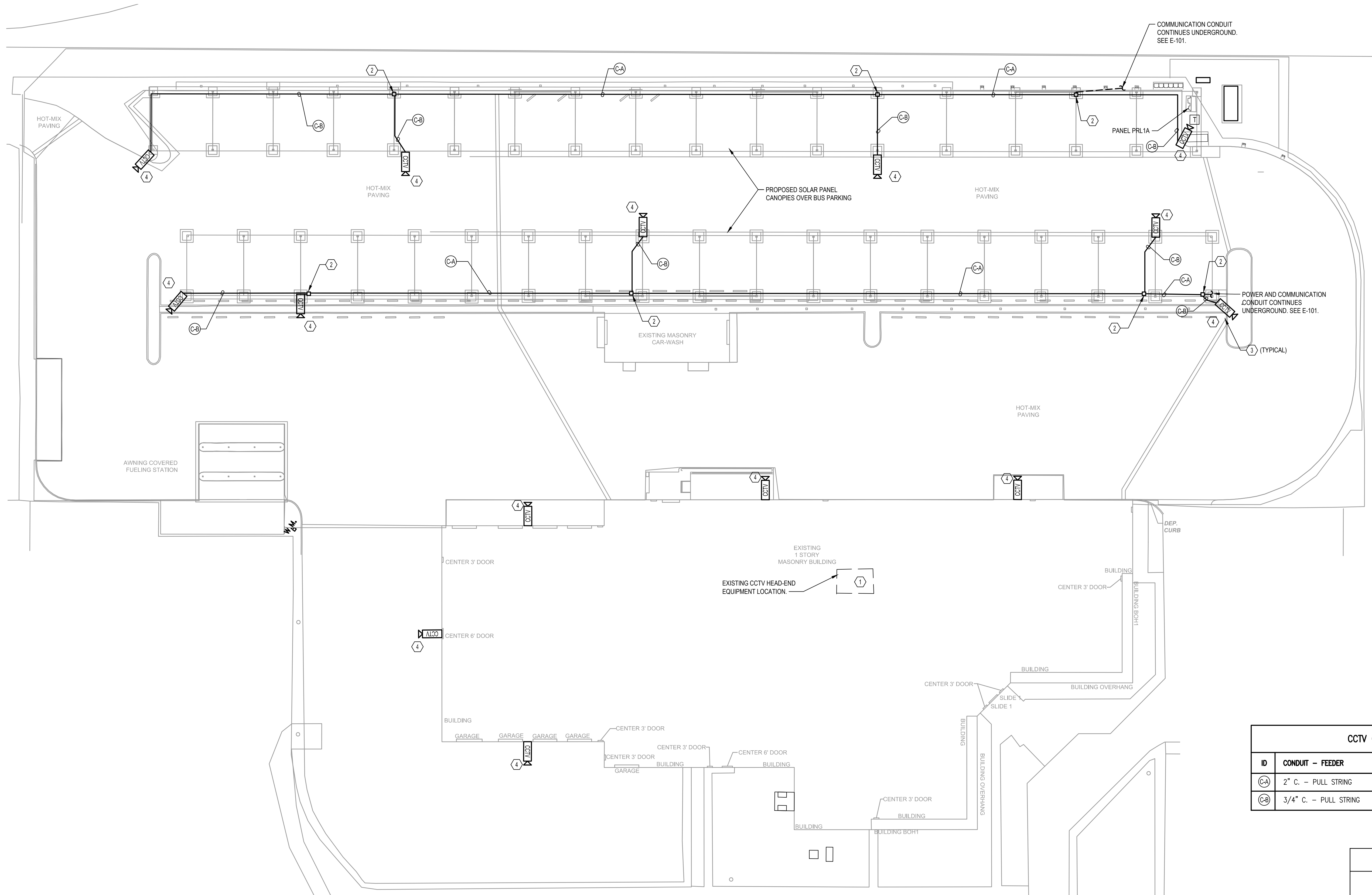
- 1 PROVIDE LIGHTING FIXTURE MOUNTED TO THE UNDERSIDE OF THE CANOPY. EXISTING LIGHTING CONTROLS FROM BUILDING SHALL BE RE-USED, (TYPICAL)
- 2 COORDINATE FINAL LOCATION AND TERMINATION REQUIREMENTS OF CCTV HEAD-END EQUIPMENT WITH OWNER.
- 3 PROVIDE SOLAR ARRAY INVERTER MOUNTED TO CANOPY COLUMN. COORDINATE FINAL LOCATION WITH SOLAR PANEL LAYOUT.
- 4 LIGHTING FIXTURE POWER SHALL BE DISCONNECTED FROM EXISTING SOURCE AND RE-ROUTED TO ALTERNATE EXISTING LIGHTING CIRCUIT. MATCH ALTERNATING CIRCUIT NUMBER SCHEME USED ON NEW CIRCUIT FOR LIGHTING (1,3,5 ETC.). SEE CIVIL PLANS FOR PHASING REQUIREMENTS.
- 5 PROVIDE NEW 1" CONDUIT FOR CONNECTING EXISTING-TO-REMAIN LIGHTING FIXTURES TO ALTERNATE EXISTING POWER SOURCE. MATCH CONDUIT TYPE, AND WIRING SIZE AND TYPE FOR CIRCUIT CONNECTION.
- 6 REFER TO DETAIL 1 ON SHEET E-502 FOR MORE INFORMATION ON VERTICAL CONDUIT ROUTING TRANSITIONS.
- 7 REFER TO DETAIL 2 ON SHEET E-502 FOR MORE INFORMATION ON VERTICAL CONDUIT ROUTING TRANSITION INTO BUILDING. COORDINATE TERMINATION LOCATION OF CCTV CONDUIT WITH OWNER.
- 8 PROVIDE JUNCTION WELL FOR INTERCEPTING EXISTING POWER CONDUIT FOR NEW CCTV EQUIPMENT. USE A SPARE BREAKER FOR EACH CANOPY FROM PANEL "F1" TO NEW CANOPY MOUNTED CCTV EQUIPMENT. JUNCTION WELL IN DRIVE ISLES, OR SUBJECT TO TRAFFIC SHALL BE RATED FOR THOSE CONDITIONS AND SIZED PER NEC REQUIREMENTS. SEE SHEET DT-03 FOR ADDITIONAL DETAILS OF DRIVE AISLE RATED JUNCTION WELL.
- 9 PROVIDE JUNCTION WELL TYPE 1 FOR NEW CANOPY LIGHTING CIRCUIT, AND TO FEED EXISTING PERIMETER LIGHTING CIRCUIT. USE SPARE BREAKER FROM PANEL H2 IN ELECTRICAL ROOM 185 FOR THE TWO NEW CIRCUITS. SEE CIVIL PLANS FOR PHASING REQUIREMENTS.
- 10 PROVIDE JUNCTION WELL FOR INTERCEPTING EXISTING POWER FOR SITE LIGHTING. USE SPARE BREAKERS FROM PANEL H3A IN ELECTRICAL ROOM 111 FOR NEW CANOPY LIGHTING CIRCUIT. JUNCTION WELLS IN DRIVE AISLES, OR SUBJECT TO TRAFFIC SHALL BE RATED FOR THOSE CONDITIONS AND SIZED PER NEC REQUIREMENTS. SEE CIVIL PLANS FOR PHASING REQUIREMENTS. SEE SHEET DT-03 FOR ADDITIONAL DETAILS OF DRIVE AISLE RATED JUNCTION WELL.
- 11 LIGHTING FIXTURE POWER SHALL BE DISCONNECTED FROM EXISTING SOURCE AND RE-ROUTED TO NEW LIGHTING CIRCUIT FROM PANEL H2 IN ELECTRICAL ROOM 185. SEE CIVIL PLANS FOR PHASING REQUIREMENTS.
- 12 PROVIDE QUAZITE HANDHOLE ADJACENT TO POLE FOR INTERCEPTING CONDUIT, AND EXTENDING CONDUIT TO EXISTING POLE MOUNTED FIXTURE. COORDINATE FINAL LOCATION WITH EXISTING LIGHTING. SEE DETAIL 2 ON SHEET E-501 FOR ADDITIONAL DETAIL.

LEGEND



NOTES:

- SEE CONDUIT/WIRING SCHEDULE ON DRAWING E-503.



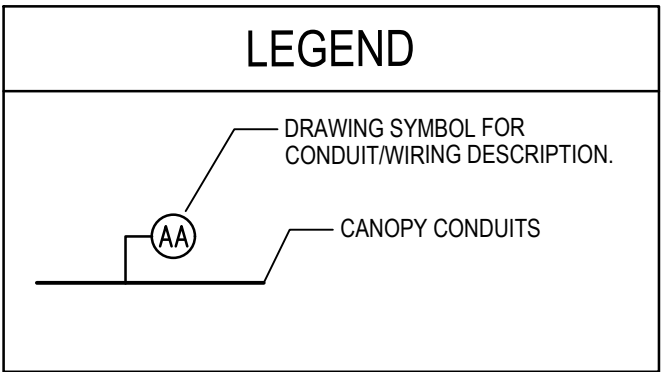
GENERAL SHEET NOTES:

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL, OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
2. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (———) SHALL BE NEW, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (———) SHALL BE EXISTING TO REMAIN.
3. ALL WIRING SHALL BE INSTALLED IN CONDUIT, INCLUSIVE OF LOW VOLTAGE/CONTROL WIRING. BURIED CONDUIT SHALL BE PVC SCHEDULE 40. CONDUIT SHALL BE ENCASED IN CONCRETE UNDER DRIVE AISLES AND PARKING AREAS, AND DIRECT BURIED IN ALL OTHER AREAS.
4. COORDINATE EXACT LOCATIONS OF DIRECT BURIED DUCTBANKS WITH DTC.
5. REFER TO SHEET E-502 FOR ELECTRICAL PANEL SCHEDULES, SINGLE LINE, AND FUTURE SCHEDULES.
6. COMMUNICATIONS DUCTBANK SHALL HAVE AT LEAST 12 INCHES OF SEPARATION FROM POWER DUCTBANK.
7. CONTRACTOR SHALL SUPPORT CONDUITS ON CANOPY AS REQUIRED BY NEC.
8. COORDINATE FINAL CAMERA LOCATION, QUANTITY, AND REQUIREMENTS WITH DTC.
9. COORDINATE WITH DTC ALL PHASING AND COVERAGE REQUIREMENTS TO MAINTAIN EXISTING CCTV COVERAGE DURING CONSTRUCTION.
10. SEE SHEET E-101 FOR UNDERGROUND CONDUIT INFORMATION. SEE SHEET E-501 AND E-502 FOR DETAILS.
11. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, BACKBOXES AND REQUIRED ACCESSORIES AS NECESSARY TO SUPPORT THE COMPLETE INSTALLATION OF ALL FIXED VIDEO SURVEILLANCE CAMERAS. ALL WIRING AND CAMERA INSTALLATION SHALL BE DONE BY THE DTC INTEGRATOR. WORK DONE ON THE INTERIOR OF THE BUILDING SHALL BE DONE BY THE DTC INTEGRATOR. THE CONTRACTOR SHALL COORDINATE WITH THE DTC INTEGRATOR TO DETERMINE ALL CONDUIT REQUIREMENTS PRIOR TO COMMENCEMENT OF ANY WORK.

SHEET KEYNOTES:

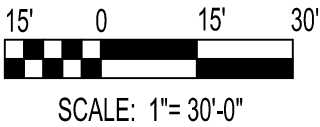
- 1 COORDINATE FINAL LOCATION AND TERMINATION REQUIREMENTS OF CCTV HEAD-END EQUIPMENT WITH OWNER.
- 2 PROVIDE STAINLESS STEEL NEMA 4X JUNCTION BOX FOR CCTV CONDUIT ROUTING. SIZE JUNCTION BOX PER NEC REQUIREMENTS.
- 3 ALL CCTV CAMERA MORE THAN 295 FEET FROM NETWORK SWITCH SHALL BE FIBER PER DTC STANDARDS. PROVIDE POWER FOR MEDIA CONVERTERS AT CAMERA LOCATIONS FROM PANEL PRL1A.
- 4 CCTV EQUIPMENT SHALL BE INSTALLED BY OTHERS.

CCTV CANOPY CONDUIT ROUTING SCHEDULE		
ID	CONDUIT - FEEDER	DESCRIPTION
(C-A)	2" C. - PULL STRING	MAIN CCTV CONDUIT
(C-B)	3/4" C. - PULL STRING	INDIVIDUAL CCTV CONDUIT



1 COMMUNICATIONS SITE PLAN - NEW WORK
E-103 SCALE: 1" = 30'-0"

ADDENDUMS / REVISIONS	



DOVER BUS CANOPY SOLAR PANELS

CONTRACT	BRIDGE NO.	N/A
T202153104.02	DESIGNED BY:	JRM
COUNTY	CHECKED BY:	JL
KENT		

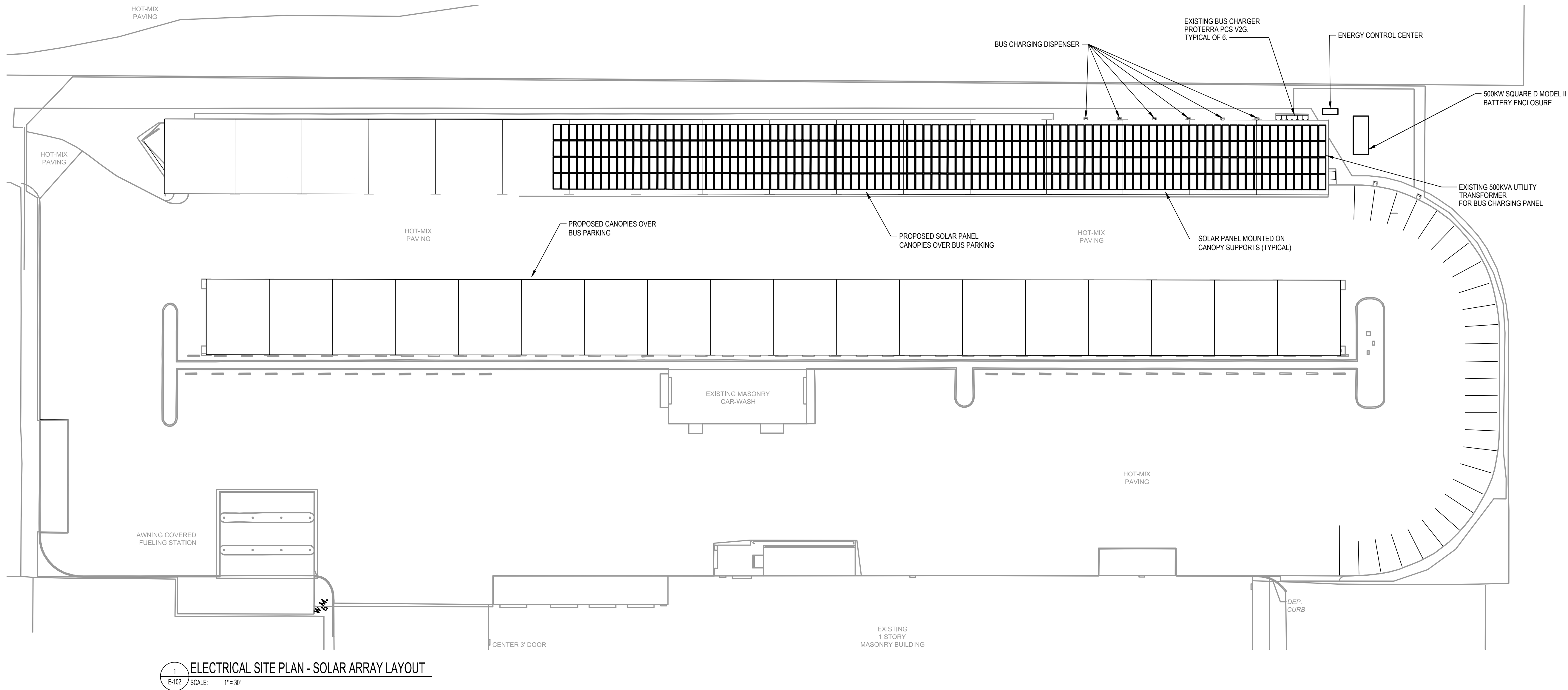
CCTV CONDUIT ROUTING PLAN - NEW

E-102
SECTION
JMT
SHEET NO.
22

\\jmt.corp.local\jmt\tds\2018\1802769_026_Dover_Bus_Canopy_Sol\CADD\Elec\E-103 - SITE PLAN - SOLAR ARRAY.dwg

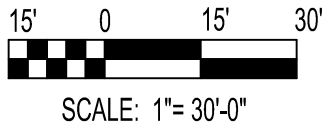


- GENERAL SHEET NOTES:
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 - UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (————) SHALL BE NEW, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (————) SHALL BE EXISTING TO REMAIN.
 - ALL WIRING SHALL BE INSTALLED IN CONDUIT, INCLUSIVE OF LOW VOLTAGE/CONTROL WIRING. BURIED CONDUIT SHALL BE PVC SCHEDULE 40 OR SCHEDULE 80, ENCASED IN CONCRETE.
 - BASIS OF DESIGN SOLAR PANEL IS OCELLS Q PEAK DUO XL WITH MINIMUM WATTAGE OF 590W. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - SOLAR PANEL ARRAY SHALL BE CAPABLE OF PRODUCING A MINIMUM OF 228KW.
 - DURING NORMAL OPERATION THE SOLAR PANELS SHOULD CHARGE THE BATTERY SYSTEM DURING THE DAY. AT NIGHT THE BATTERIES SHOULD BE USED TO POWER THE VEHICLE CHARGERS, WITH UTILITY HELP ON ANY ADDITIONAL REQUIRED ENERGY. UTILITY CONTRIBUTION SHALL ONLY BE ALLOWED TO BE USED DURING BATTERY DISCHARGE, AND NOT BATTERY CHARGING SCENARIOS. COORDINATE ECC OPERATION WITH MANUFACTURER.
 - THE CONTRACTOR SHALL PROVIDE ALL WIRING, INCLUDING BETWEEN THE SOLAR PANELS AND INVERTER, REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. ALL WIRING SHALL BE PROVIDED IN CONDUIT.
 - CONTRACTOR SHALL PROVIDE ALL EQUIPMENT CONNECTIONS AND EQUIPMENT GROUNDING OF THE SOLAR ARRAY, INVERTERS, AND STRUCTURAL FRAMES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM IN ADHERENCE TO NEC ARTICLE 690.43.



1 ELECTRICAL SITE PLAN - SOLAR ARRAY LAYOUT
E-102 SCALE: 1" = 30'

ADDENDUMS / REVISIONS	

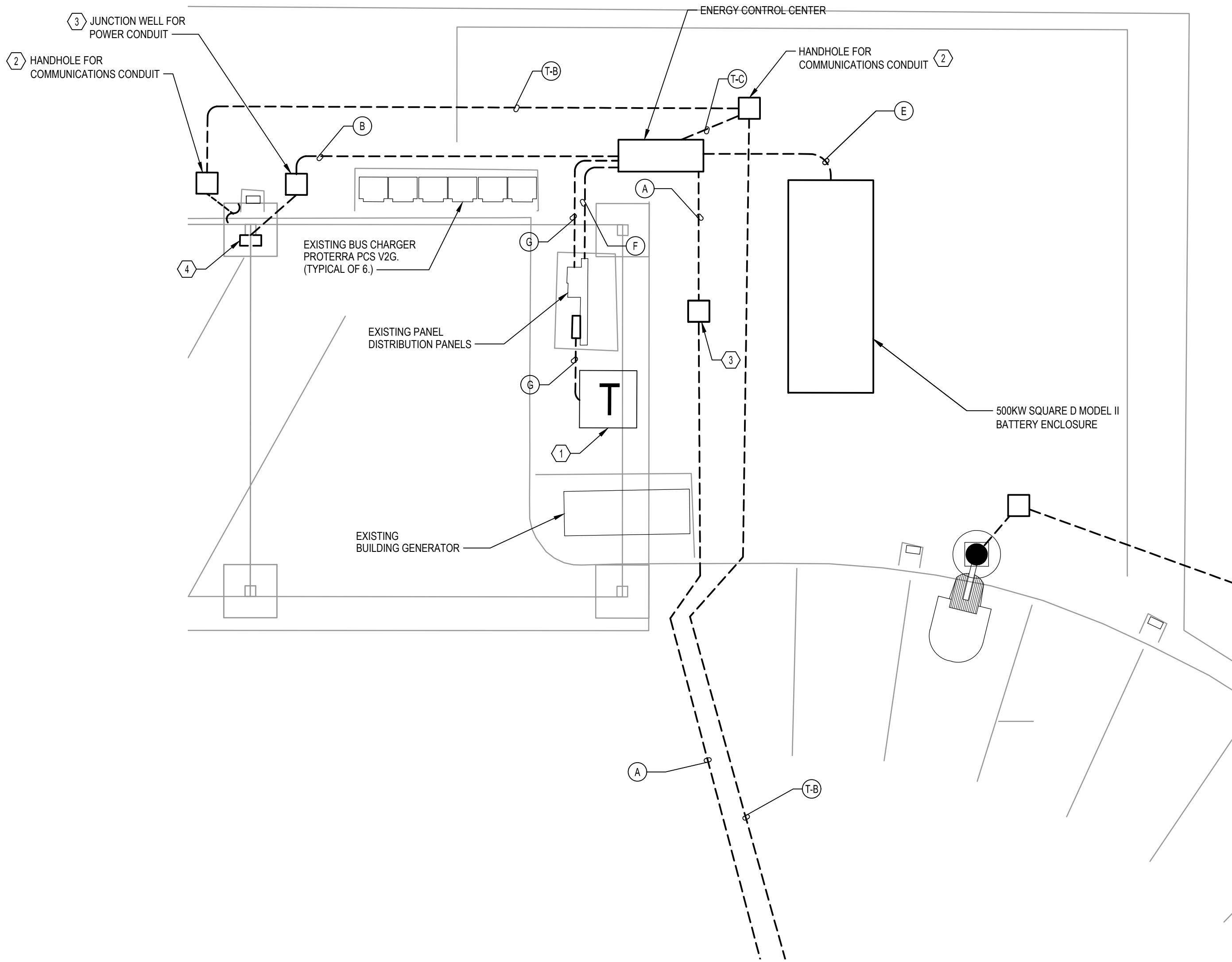


DOVER BUS CANOPY
SOLAR PANELS

CONTRACT	BRIDGE NO.	N/A
T202153104.02	DESIGNED BY:	JRM
COUNTY	CHECKED BY:	JL
KENT		

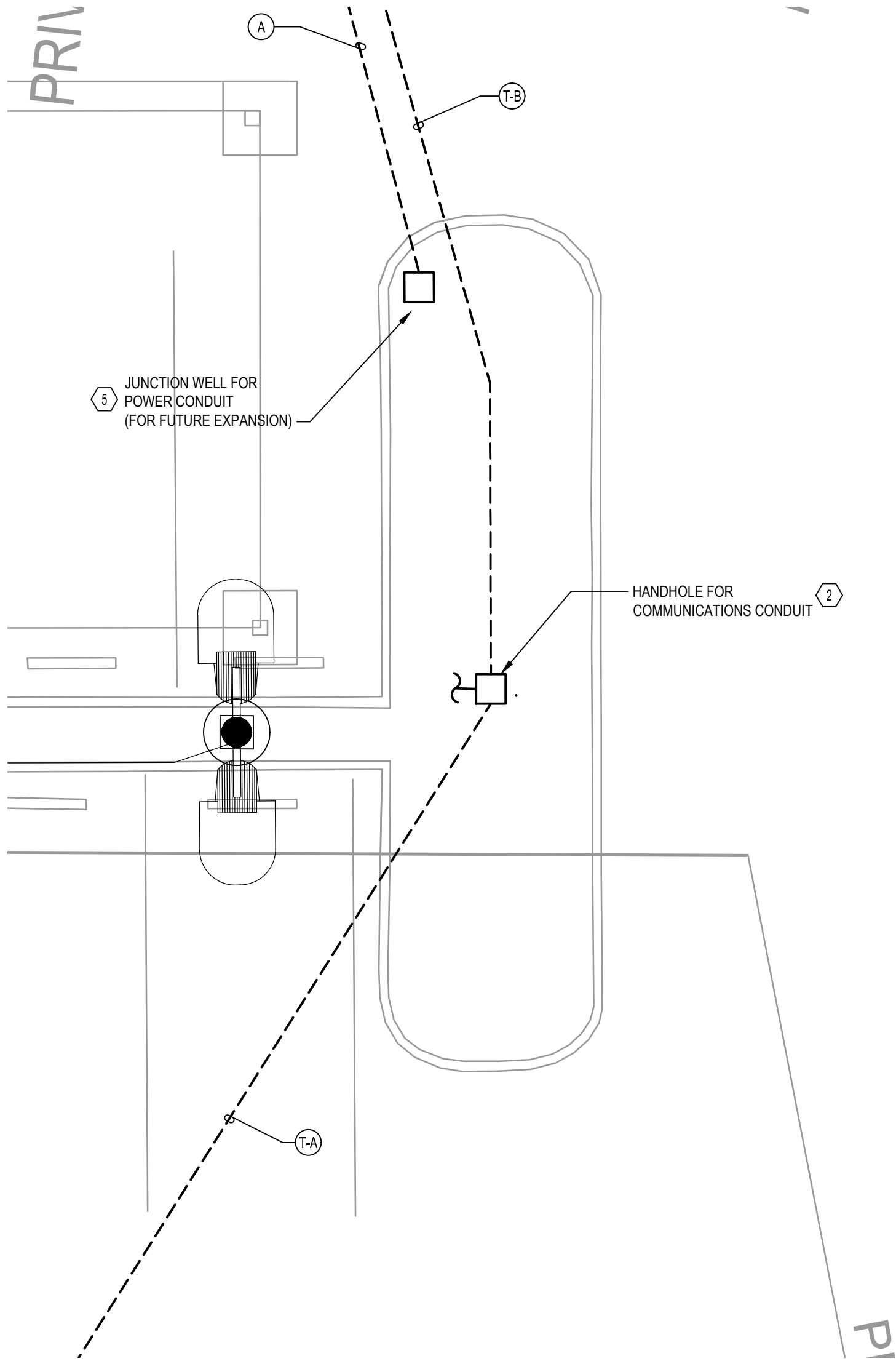
SITE PLAN - NEW
SOLAR ARRAY LAYOUT

E-103
SECTION
JMT
SHEET NO.
23



1
E-401
SCALE: 1/8" = 1'-0"

ELECTRICAL SITE PLAN - NEW WORK - ECC & DISTRIBUTION



2
E-401
SCALE: 1/8" = 1'-0"

ELECTRICAL SITE PLAN - NEW WORK - PROPOSED ISLAND

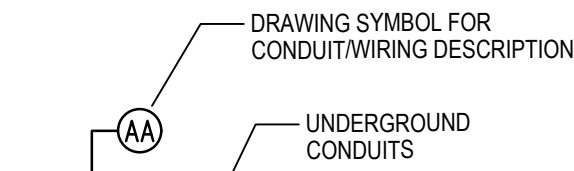
GENERAL SHEET NOTES:

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
2. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY SOLID () SHALL BE NEW, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID () SHALL BE EXISTING TO REMAIN.
3. ALL WIRING SHALL BE INSTALLED IN CONDUIT, INCLUSIVE OF LOW VOLTAGE/CONTROL WIRING. BURIED CONDUIT SHALL BE PVC SCHEDULE 40. CONDUIT SHALL BE ENCASED IN CONCRETE UNDER DRIVE ISLES AND PARKING AREAS, AND DIRECT BURIED IN ALL OTHER AREAS.
4. COORDINATE EXACT LOCATIONS OF DIRECT BURIES DUCTBANKS WITH DTC.
5. REFER TO SHEET E-601 FOR ELECTRICAL PANEL SCHEDULES, SINGLE LINE, AND FIXTURE SCHEDULES.
6. COMMUNICATIONS DUCTBANK SHALL HAVE AT LEAST 12 INCHES OF SEPARATION FROM POWER DUCTBANK.
7. CONTRACTOR SHALL SUPPORT CONDUITS AS REQUIRED BY NEC.

SHEET KEYNOTES:

1. INTERCEPT EXISTING SERVICE ON CUSTOMER SIDE OF UTILITY METER AND EXTEND TO GO THROUGH ENERGY CONTROL CENTER. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL DETAIL. COORDINATE WITH UTILITY SERVICE PROVIDER.
2. PROVIDE JUNCTION WELL, TYPE 1 FOR COMMUNICATIONS. REFER TO DETAIL 2 ON SHEET E-501 FOR ADDITIONAL DETAILS. REFER TO E-102 FOR CONTINUATION OF CCTV CONDUIT TO CANOPY.
3. PROVIDE JUNCTION WELL, TYPE 1 FOR ELECTRICAL POWER. REFER TO DETAIL 1 ON SHEET E-501 FOR ADDITIONAL DETAILS.
4. REFER TO DETAIL 1 ON SHEET E-502 FOR MORE INFORMATION ON VERTICAL CONDUIT ROUTING TRANSITIONS.
5. PROVIDE JUNCTION WELL, TYPE 1 FOR FUTURE SOLAR CANOPY EXPANSION. REFER TO DETAIL 1 ON SHEET E-501 FOR ADDITIONAL DETAILS.

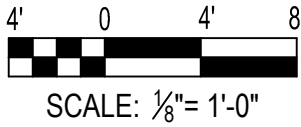
LEGEND



NOTES:

- SEE CONDUIT/WIRING SCHEDULE ON DRAWING E-503.

ADDENDUMS / REVISIONS



DOVER BUS CANOPY SOLAR PANELS

CONTRACT	BRIDGE NO.	N/A
T202153104.02	DESIGNED BY:	JRM
COUNTY	CHECKED BY:	JL
KENT		

ELECTRICAL SITE PLAN - NEW

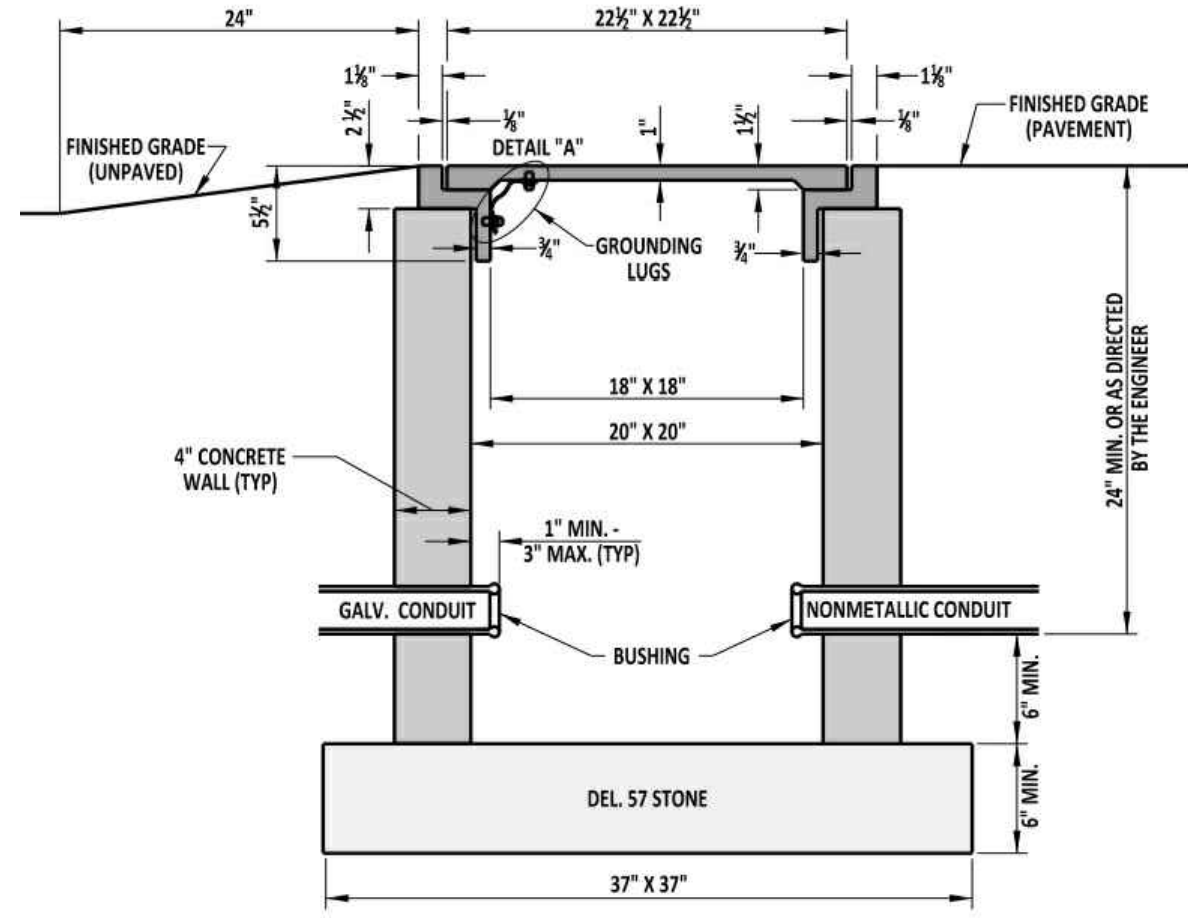
E-401

SECTION

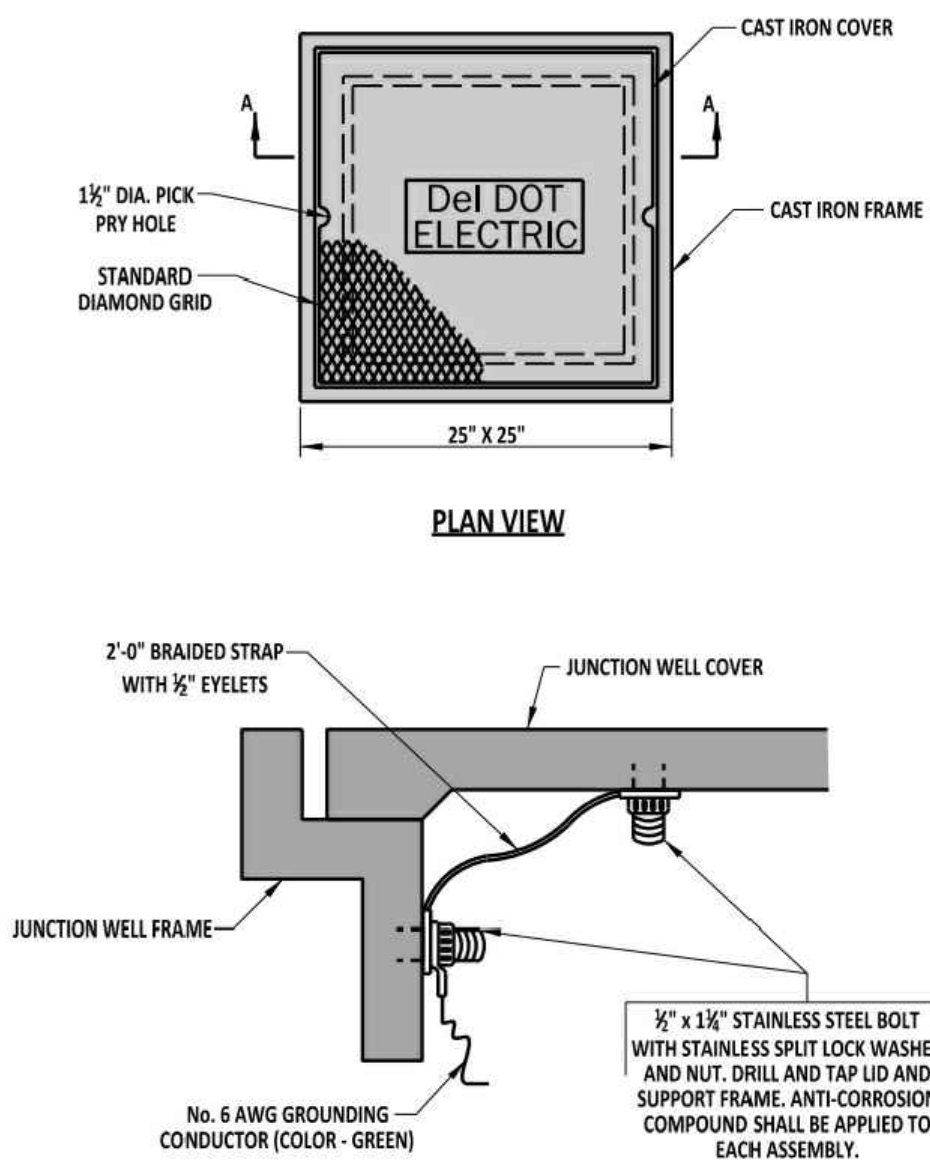
JMT

SHEET NO.

24



SECTION A-A

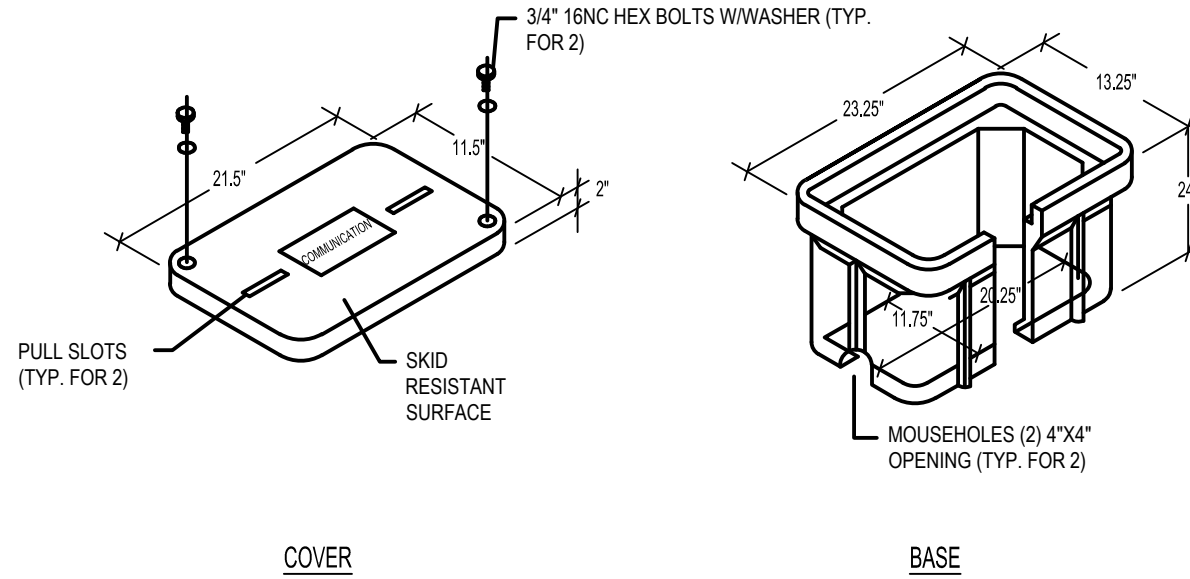


DETAIL "A"

1 CONDUIT JUNCTION WELL, TYPE 1
E-501 SCALE: NTS

GENERAL HANDHOLE NOTES:

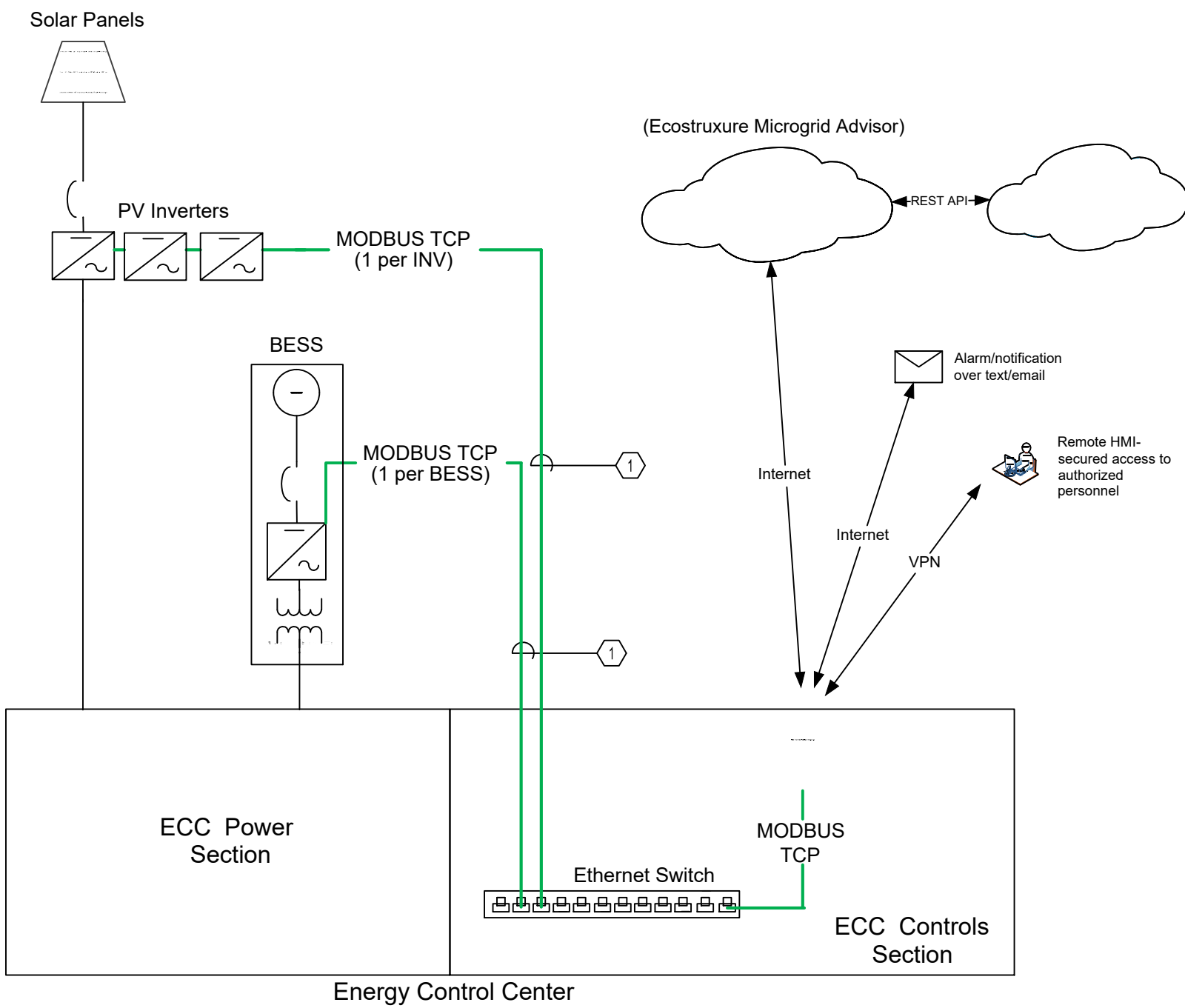
1. PROVIDE QUARTZITE/COMPOSITE WPG STYLE WITH MOUSEHOLES.
2. COORDINATE DEPTH OF HANDHOLES WITH EXISTING CONDITIONS IN THE FIELD. CONTRACTOR SHALL PROVIDE EXTENSION BOXES AS REQUIRED.
3. COVER LABEL SHALL STATE "ELECTRIC" OR "COMMS" DEPENDING ON ITS USE.
4. DETAIL IS FOR OPEN BOTTOM HANDHOLE.
5. MODIFY SIZE AS REQUIRED.



COVER

BASE

2 TYPICAL COMMUNICATIONS HANDHOLE DETAIL
E-501 SCALE: NTS



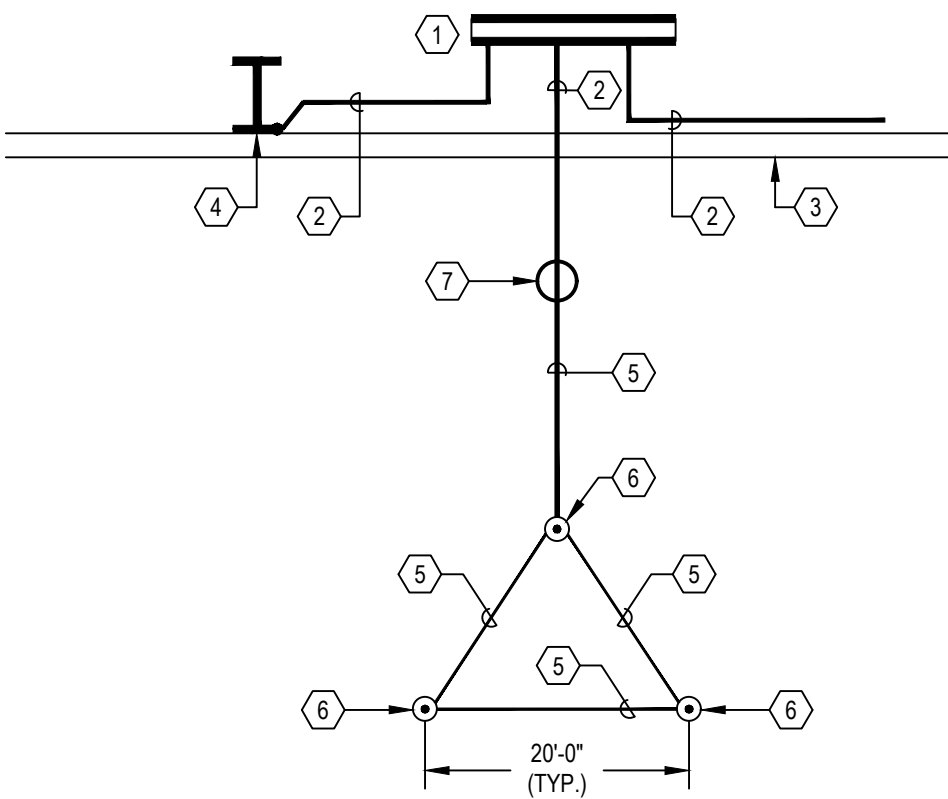
DETAIL KEYNOTES:

1. SPARE CONDUIT FOR MODBUS CONNECTION. REFER TO SITE PLAN E-102 FOR ROUTING AND CONDUIT DETAILS.

3 ENERGY CONTROL CENTER CONTROL ARCHITECTURE
E-501 SCALE: NTS

GENERAL DETAIL KEYNOTES:

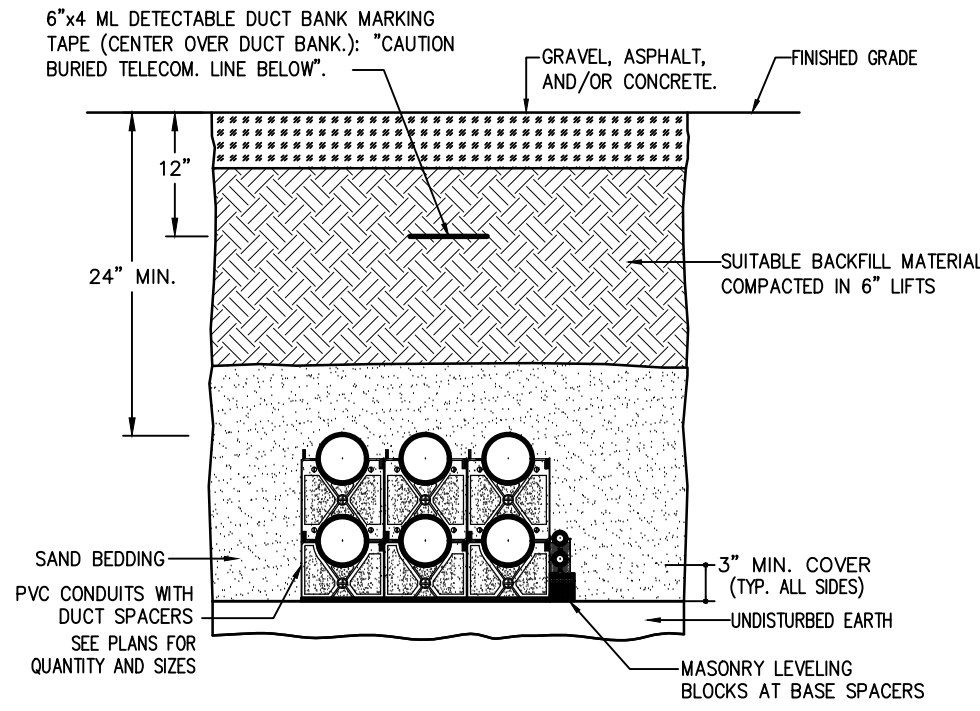
1. MAIN ENERGY CONTROL CENTER GROUND BUS.
2. #4/0 BARE CU. GROUND CONDUCTOR IN 1-1/4" CONDUIT.
3. OTHER EQUIPMENT EXTERIOR WALL.
4. STRUCTURAL STEEL EXOTHERMIC CONNECTION.
5. #4/0 BARE CU. GROUND CONDUCTOR
6. 3/4" X 10'-0" LONG COPPER WELD GROUND ROD DRIVEN WITH TOP 1'-0" BELOW GRADE.
7. GROUNDING TEST WELL.



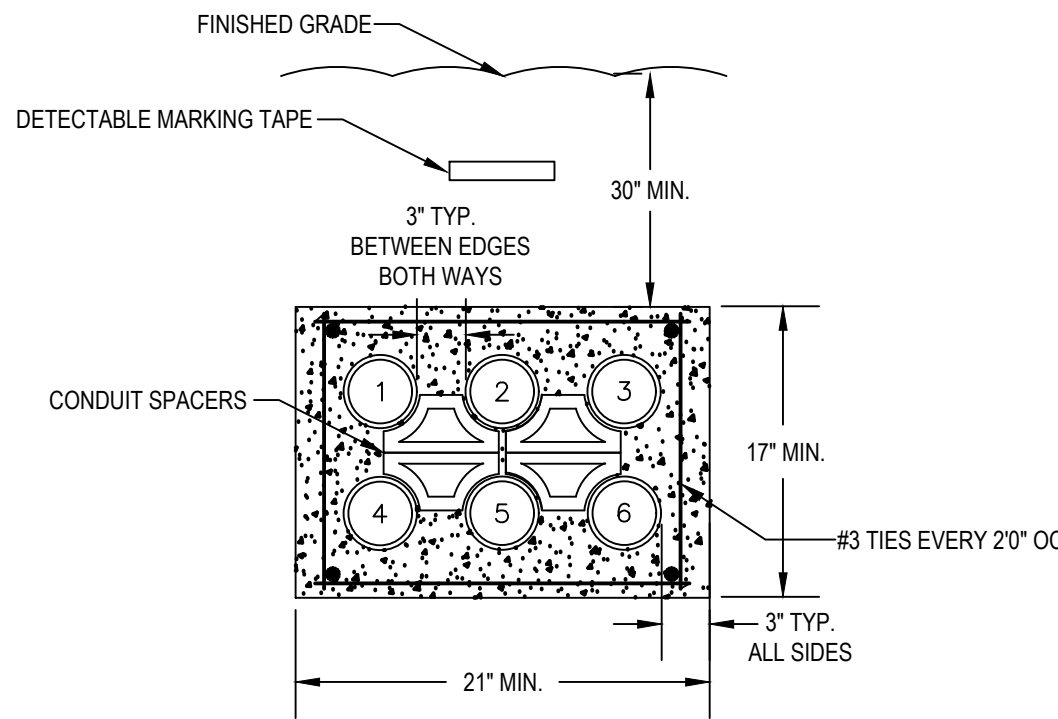
GENERAL DETAIL NOTES:

1. PROVIDE COPPER GROUND RODS QUANTITY REQUIRED TO MEET A LESS THAN 5 OHM RESISTANCE TO EARTH.

4 TYPICAL GROUNDING DETAIL
E-501 SCALE: NONE



5 TYPICAL BURIED CONDUIT SECTION
E-501 SCALE: NTS



6 TYPICAL CONCRETE-ENCASED DUCT BANK SECTION
E-501 SCALE: NONE

ADDENDUMS / REVISIONS

DOVER BUS CANOPY
SOLAR PANELS

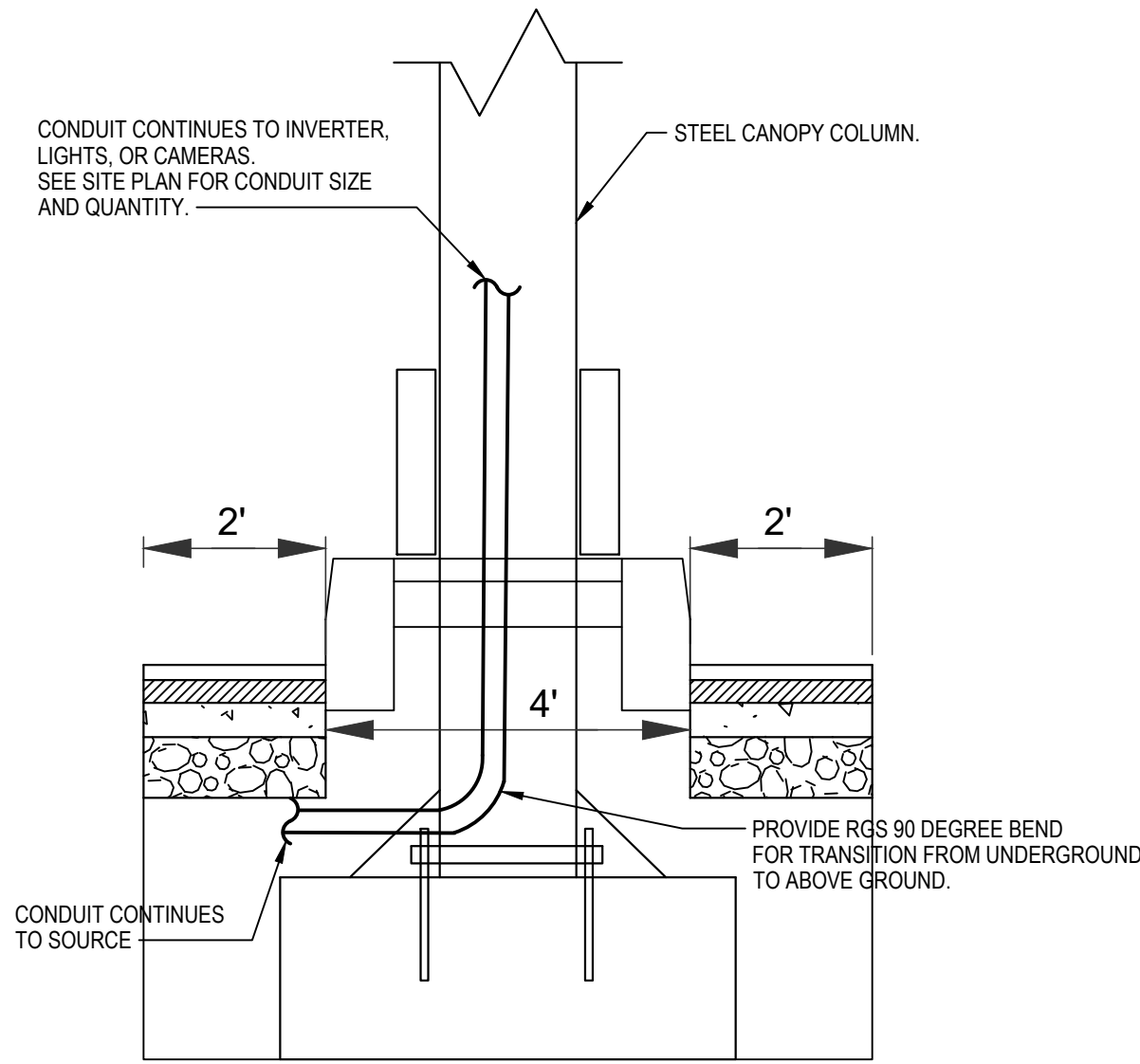
CONTRACT	BRIDGE NO.	N/A
T202153104.02	DESIGNED BY:	JRM
COUNTY	CHECKED BY:	JL
KENT		

ELECTRICAL DETAILS

E-501
SECTION
JMT
SHEET NO.
25

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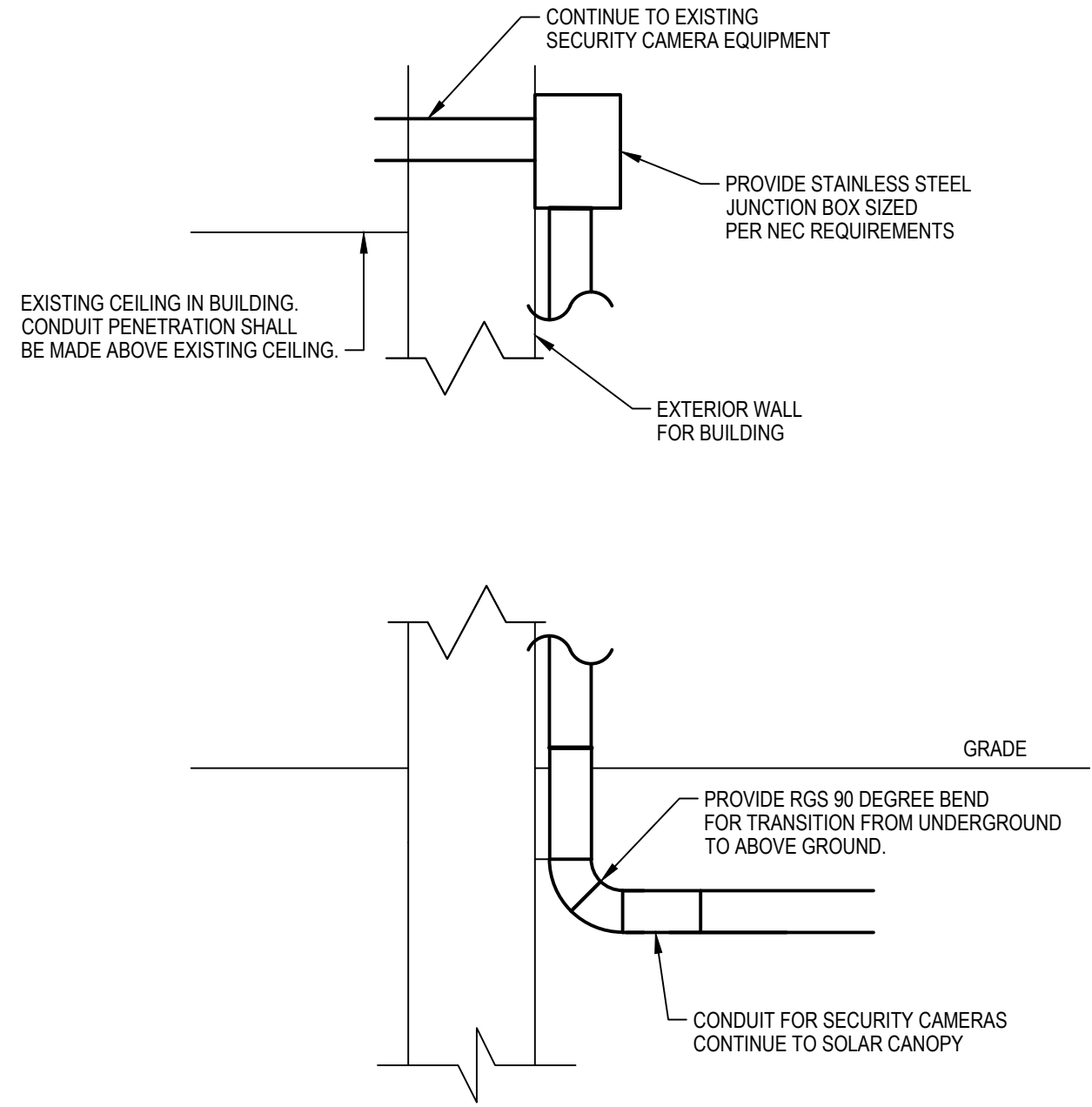
JMT



GENERAL DETAIL NOTES:

- CONDUIT SHALL BE MOUNTED ON POLE UP TO CONNECTIONS TO OTHER EQUIPMENT.
- CONDUIT SHALL BE PVC SCHEDULE 40, AND TURN UP TO BE RGS.

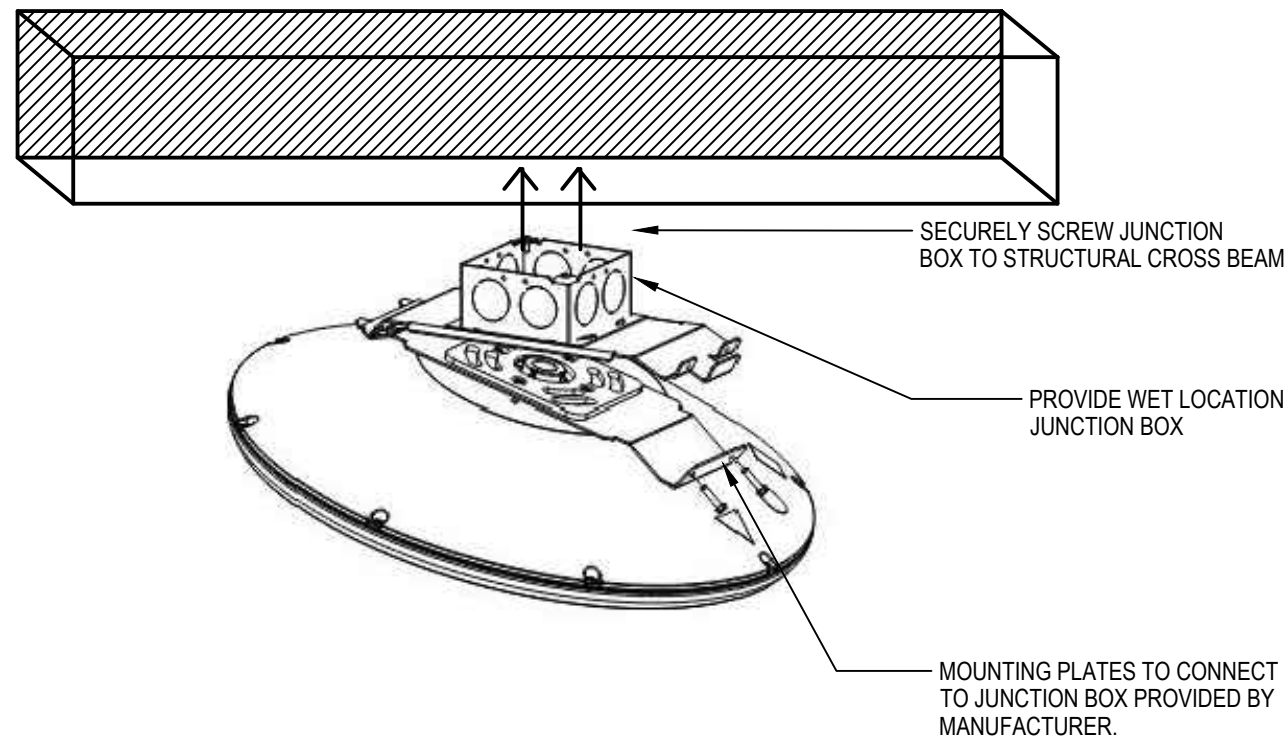
1 CONDUIT ROUTING - CANOPY COLUMN & OVERHEAD
E-502 SCALE: NTS



GENERAL DETAIL NOTES:

- REPAIR ALL DISTURBED WALLS.
- CONDUIT SHALL BE PVC SCHEDULE 40, AND TURN UP TO BE RGS.

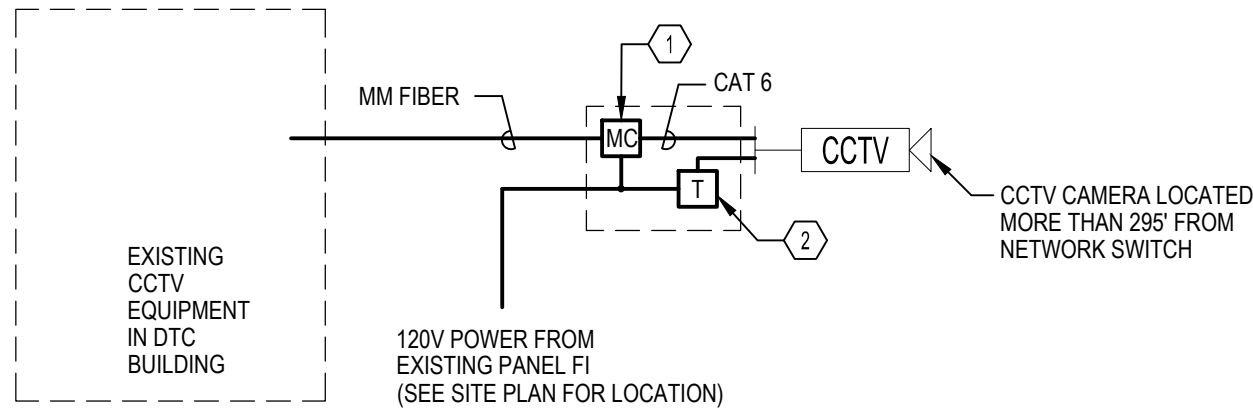
2 CONDUIT ROUTING - WALL PENETRATION OF BUILDING
E-502 SCALE: NTS



3 LIGHTING FIXTURE MOUNTING DETAIL
E-502 SCALE: NTS

GENERAL DETAIL NOTES:

- THE CAMERA ACESORY EQUIPMENT ENCLOSURE SHALL BE PROVIDED ADJACENT TO THE CAMERA. THE ENCLOSURE SHALL HAVE THE FOLLOWING FEATURES
 - UL LISTED, SIZE PER NEC
 - NEMA 4X RATED
 - STAINLESS STELL TYPE 316L CONSTRUCTION
- A DEDICATED CAMERA ACESORY EQUIPMENT ENCLOSURE SHALL BE PROVIDED FOR EACH CAMERA. COORDINATE DIMENSIONS OF THE ENCLOSURE WITH THE DIMENSIONS OF THE EQUIPMENT THAT IS INSTALLED INSIDE IT.
- COORDINATE WITH DTC FOR EXACT QUANTITY AND LOCATION AND LOCATION OF CCTV CAMERAS.
- CONDUIT FOR CCTV, AND 120V POWER SHALL BE PROVIDED BY CONTRACTOR. ALL WIRING, AND FINAL CONNECTIONS SHALL BE MADE BY DTC.



SHEET KEYNOTES:

- PROVIDE MM FIBER TO COPPER MEDIA CONVERTER FOR CCTV CAMERAS MORE THAN 295' FROM NETWORK SWITCH. (BY DTC)
- PROVIDE 100VA, 120VAC-12VDC CONTROL TRANSFORMER FOR POWER TO CATV CAMERA. (BY DTC)

4 CCTV CONNECTION DIAGRAM
E-502 SCALE: NTS

ADDENDUMS / REVISIONS	

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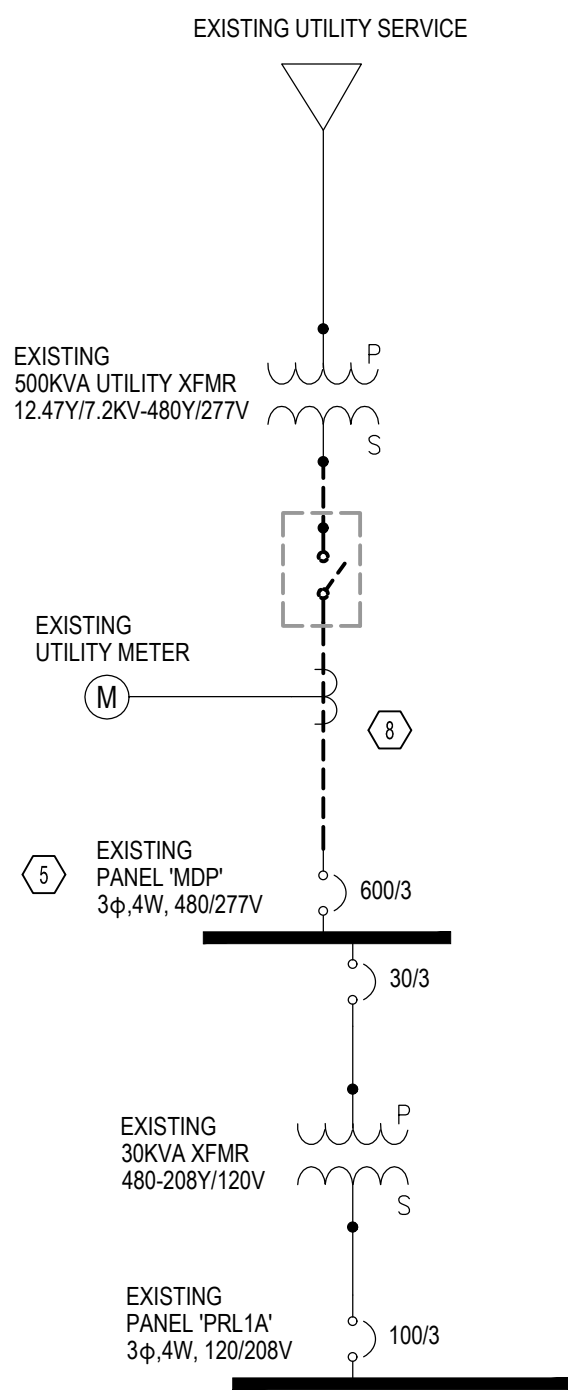
DOVER BUS CANOPY SOLAR PANELS

CONTRACT T202153104.02	BRIDGE NO.	N/A
COUNTY KENT	DESIGNED BY: JRM	
	CHECKED BY: JL	

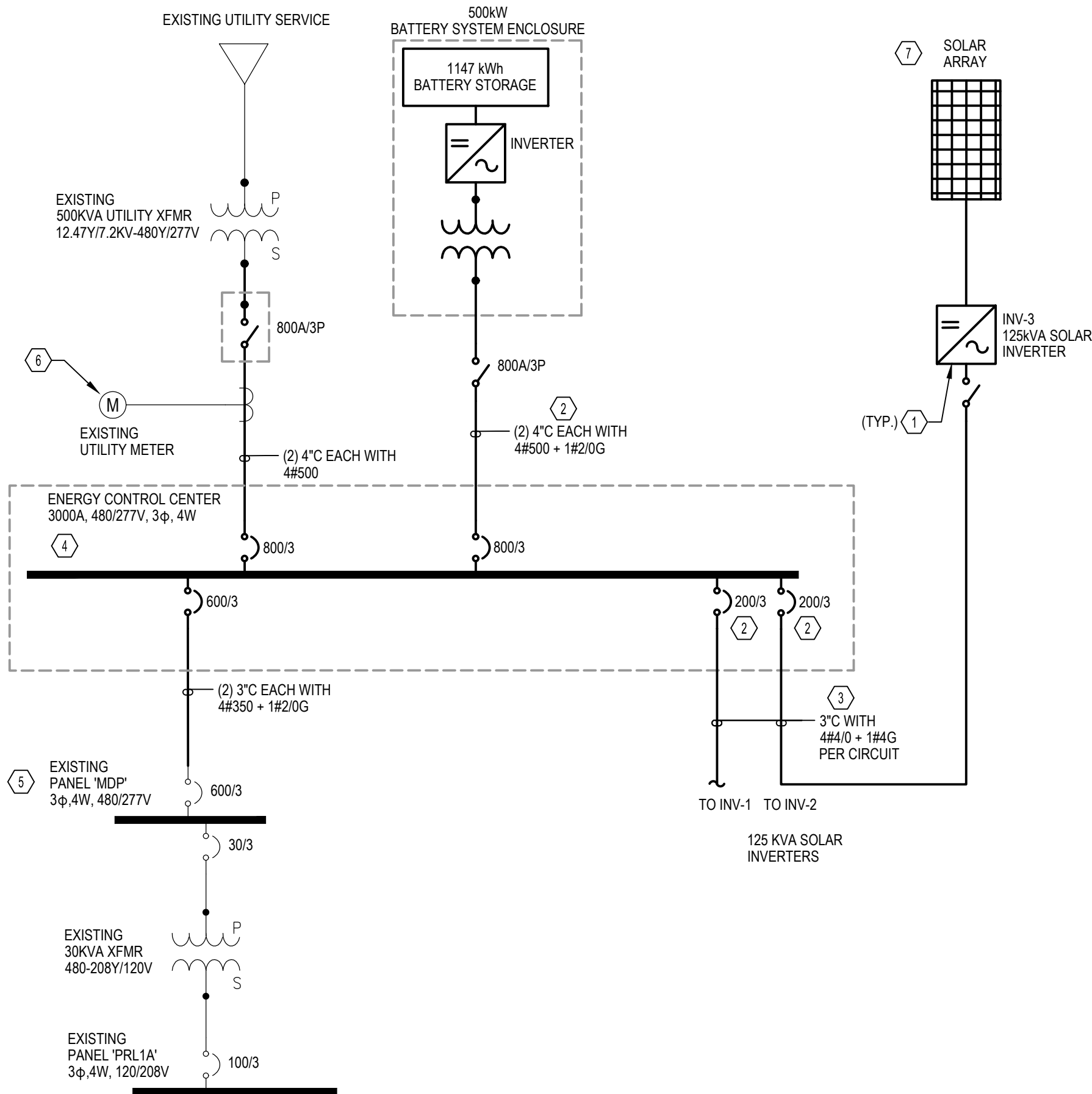
ELECTRICAL DETAILS II

E-502
SECTION JMT
SHEET NO. 26

\\jmt.corp.local\jmt\dfs\2018\1802769_026_Dover_Bus_Canopy_Sol\CADD\Elec\E-503 - ELECTRICAL SINGLE LINE DIAGRAM AND CONDUIT SCHEDULES - updated.dwg



1
E-001
SCALE: NTS
SINGLE LINE DIAGRAM - DEMOLITION



2
E-002
SCALE: NTS
SINGLE LINE DIAGRAM - NEW WORK

ELECTRICAL CONDUIT AND WIRING SCHEDULE		
ID	CONDUIT - FEEDER	DESCRIPTION
A	(4) 3" C. - PULL STRING	SPARE (FOR FUTURE SOLAR CANOPY EXPANSION)
	(2) 2" C. - PULL STRING	SPARE
B	(2) 3" C. - 4#4/0 + 1#4G	TO NE CANOPY 125KVA INVERTERS
	(1) 3" C. - PULL STRING	SPARE (FOR FUTURE SOLAR CANOPY EXPANSION)
	(1) 2" C. - PULL STRING	SPARE
C	(1) 1" C. - 2#10 + 1#10G	EX. LIGHTING - FROM SPARE IN PANEL H2
	(1) 1" C. - PULL STRING	SPARE
D	(1) 1" C. - 2#10 + 1#10G	LIGHTING - NE CANOPY FROM SPARE IN PANEL H2
	(1) 1" C. - 2#10 + 1#10G	EX. LIGHTING - FROM SPARE IN PANEL H2
	(1) 1" C. - PULL STRING	SPARE
E	(2) 4" C. - 4#500 + 1#1/0G	TO BATTERY SYSTEM
F	(2) 3" C. - EACH WITH 4#350 + 1#1G	TO EXISTING PANEL MDP
G	(2) 4" C. - EACH WITH 4#500	SERVICE TO ENERGY CONTROL CENTER
H	(1) 1" C. - 2#10 + 1#10G	EX. LIGHTING - FROM SPARE IN PANEL H2
E-A	EX. CONDUIT - 2#10 + 1#10G	CCTV - SW CANOPY FROM SPARE IN PANEL F1
	EX. CONDUIT - 2#10 + 1#10G	CCTV - NE CANOPY FROM SPARE IN PANEL F1
E-B	EX. CONDUIT - 2#10 + 1#10G	LIGHTING - SW CANOPY FROM SPARE IN PANEL H3A

COMMUNICATIONS CONDUIT AND WIRING SCHEDULE		
ID	CONDUIT - FEEDER	DESCRIPTION
T-A	(2) 2" C. - PULL STRING	SPARE FOR COMMUNICATION WIRING
	(1) 3" C. - PULL STRING	SPARE FOR SW CANOPY CCTV FROM BUILDING
	(1) 3" C. - PULL STRING	SPARE FOR NE CANOPY CCTV FROM BUILDING
T-B	(2) 2" C. - PULL STRING	SPARE FOR COMMUNICATION WIRING
	(1) 3" C. - PULL STRING	SPARE FOR NE CANOPY CCTV FROM BUILDING
T-C	(1) 2" C. - PULL STRING	SPARE FOR COMMUNICATION WIRING

GENERAL SHEET NOTES:

- ALL WIRING SHALL BE INSTALLED IN CONDUIT, INCLUSIVE OF LOW VOLTAGE/CONTROL WIRING. BURIED CONDUIT SHALL BE PVC SCHEDULE 40 OR SCHEDULE 80, ENCASED IN CONCRETE.
- QUANTITY AND SIZE OF INVERTERS, CIRCUIT BREAKERS, RACEWAYS, AND CONDUCTORS SHALL BE DETERMINED BASED ON THE SOLAR ARRAY SUBMITTED.
- SIZE OF ELECTRICAL EQUIPMENT RACEWAYS, CONDUCTORS, AND ALL ASSOCIATED ACCESSORIES SHALL BE MODIFIED FROM THOSE SHOWN AS REQUIRED FOR THE SUBMITTED SOLAR ARRAY SYSTEM. CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIAL FOR A FULLY FUNCTIONAL SYSTEM.

SHEET KEYNOTES:

- SOLAR INVERTERS SHALL BE MOUNTED UNDER THE CANOPY ON THE CANOPY SUPPORTS AS CLOSE TO THE ARRAY AS ALLOWED. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL EQUIPMENT REQUIRED FOR ANY DEVIATIONS OF DESIGN AT NO ADDITIONAL COST TO THE OWNER. (TYPICAL ALL).
- QUANTITY AND SIZES OF CIRCUIT BREAKERS ARE BASED ON BASIS OF DESIGN SOLAR ARRAY AND INVERTERS AND FUTURE EXPANSION. CONTRACTOR SHALL PROVIDE QUANTITY AND SIZE OF CIRCUIT BREAKERS FOR ANY DEVIATIONS.
- QUANTITY AND SIZES OF CONDUIT AND CONDUCTORS ARE BASED ON BASIS OF DESIGN SYSTEM. CONTRACTOR TO PROVIDE QUANTITY AND SIZE OF CONDUCTORS AND CONDUIT AS REQUIRED FOR ANY DEVIATIONS.
- ENERGY CONTROL CENTER SHALL BE SERVICE ENTRANCE RATED. CONTRACTOR SHALL HAVE MANUFACTURER PROVIDE ALL PROGRAMMING REQUIRED FOR A FULLY OPERATIONAL AND UTILITY COMPANY APPROVED SYSTEM.
- NEUTRAL TO GROUND BOND SHALL BE REMOVED IN EXISTING PANEL.
- COORDINATE WITH UTILITY COMPANY FOR REPLACEMENT OF EXISTING METER.
- STRINGS AND SOLAR PANELS PER STRING SHALL BE COORDINATED WITH THE SELECTED INVERTER BY CONTRACTOR TO ENSURE A FUNCTIONING SYSTEM.
- EXISTING SERVICE CONNECTION SHALL BE REMOVED AND REPLACED WITH NEW FEED TO NEW ECC. REPLACE ANY DISCONNECTS AND EQUIPMENT AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.

ADDENDUMS / REVISIONS			DOVER BUS CANOPY SOLAR PANELS	CONTRACT T202153104.02 COUNTY KENT	BRIDGE NO. DESIGNED BY: JRM CHECKED BY: JL	N/A	ELECTRICAL SINGLE LINE DIAGRAMS & CONDUIT SCHEDULE	E-503

SECTION
JMT
SHEET NO.
27

