Illinois Tollway Base Sheet Revisions

Drawing	Drawings Modification Summary Effective: 03-31-2016
All	The electronic (pdf) version of the Standard Drawing are now made searchable (text).
	Erosion Sediment Control (ESC)-Series 200
	Sediment Basin Dewatering Device
	Revised Note 7, removed proprietary name from skimmer device.
	Roadway (RDY)-Series 400
M-RDY-408	Approach Slab, Mainline
	Changed Transverse Reinforcement size and spacing in the bottom mat of the bridge approach slab and transition apshoulder slabs from #6@9" to #8@4" to be in conformance with IDOT ABD Memo 15.8.
	Changed Transverse Reinforcement size and spacing in the top mat of the bridge approach slab and transition approach slabs from #5@12" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
	Changed Longitudinal Reinforcement size and spacing in the top mat of the bridge approach slab and transition appr shoulder slabs from #4@15" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
	Added note *** to clarify that base sheet reinforcement is for approach slabs not located on retaining walls. If approach splaced on retaining wall, reinforcement shall be designed for TL-5 crash loading.
	Changed spacing and shape of both dxx vertical bars in the barrier on the bridge approach slab and transition approashoulder slab to match the vertical bars in the bridge parapet and moment slab barrier.
All	Changed top mat reinforcement cover to 2.25" to be consistent with deck and moment slab clearances.
Sheets 1,2	Updated Note to Designer for Drainage Structures. Designer to determine size, type and location.
Sheets 1,2	Changed approach slab shoulder width requirements to match Structures Design Manual.
Sheet 3	Added option of using subgrade aggregate, special under the transition approach slab.
Sheet 3	Added additional Approach Slab Barrier Elevation to distinguish between non-integral and integral/semi-integral abutr
	Eliminated Optional Longitudinal Joint Within a Traffic Lane detail.
	Changed Neoprene Sheet to Elastomeric Sheet to keep call out generic and not specific.
	Revised Bill of Material to clarify Pay Items and Pay Item Numbers to be included. Added note to Typical Barrier Transition Detail to clarify where the 1'-9" dimension should be measured.
M-RDY-409	Approach Slab, Ramp
	Changed Transverse Reinforcement size and spacing in the bottom mat of the bridge approach slab and transition ap shoulder slabs from #6@9" to #8@4" to be in conformance with IDOT ABD Memo 15.8.
All	Changed Transverse Reinforcement size and spacing in the top mat of the bridge approach slab and transition appro shoulder slabs from #5@12" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
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	Added option of using subgrade aggregate, special under the transition approach slab.
	Added additional Approach Slab Barrier Elevation to distinguish between non-integral and integral/semi-integral abutr
	Eliminated Optional Longitudinal Joint Within a Traffic Lane detail.
	Changed Neoprene Sheet to Elastomeric Sheet to keep call out generic and not specific.
Sheet 5	Revised Bill of Material to clarify Pay Items and Pay Item Numbers to be included.
Sheet 5	Added note to Typical Barrier Transition Detail to clarify where the 1'-9" dimension should be measured.
M-RDY-410	Reserved
	Emergency Turnaround Median Width <u>></u> 35 Ft
	Bridge (BRG)-Series 500
	Expansion Joint Repair Base Sheet was removed since details did not match Special Provision.
	Crash Wall Modifications Median Piers
M-BRG-507	Crash Wall Modifications Median Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars.
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M-BRG-507 M-BRG-508 M-BRG-525	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details Drainage (DRN)-Series 600
M-BRG-508 M-BRG-525 M-DRN-601	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details Drainage (DRN)-Series 600 Slope Drain
M-BRG-508 M-BRG-525 M-DRN-601	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details Drainage (DRN)-Series 600
M-BRG-508 M-BRG-525 M-DRN-601	Note 4 - Changed Reinforcing bars to Reinforcement Bars. Crash Wall Modifications Shoulder Piers Note 4 - Changed Reinforcing bars to Reinforcement Bars. Slopewall Details Drainage (DRN)-Series 600 Slope Drain Revised storm sewer to "Class B, 12".

Base Sheet	
Drawing	Modification Summary Effective: 03-31-2016
M MOT 700	Maintenance of Traffic (MOT)-Series 700
M-MO1-700	Temporary Concrete Barrier "Y" Connector Segment
	Revised Barrier Details Notes. Changed barrier edges chamfered from 1/2" to 1" on all edges (optional).
	Changed barrier edges chamiered from 1/2 to 1 on all edges (optional).
	Overhead Sign (OHS)-Series 720
M-OHS-720	Overhead Sign Structure Span Type Summary and Total Bill of Material
0110 120	Added Protective Coat (SQ YD) to Summary Table
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.
M-OHS-721	Overhead Sign Structure Cantilever Type Summary and Total Bill of Material
	Added Protective Coat (SQ YD) to Summary Table
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.
M-OHS-722	Overhead Sign Structure Entrance Monotube Type (Steel) Mainline Summary and Total Bill of Materia
	Added Protective Coat (SQ YD) to Summary Table
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table and Total Bill of Mate
M-OHS-723	Overhead Sign Structure Exit Monotube Type (Steel) Mainline Summary and Total Bill of Material
	Added Protective Coat (SQ YD) to Summary Table
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table and Total Bill of Mate
M-OHS-724	Overhead Sign Structure Butterfly Type (Steel) Summary and Total Bill of Material
	Added Protective Coat (SQ YD) to Summary Table
<u> </u>	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.
<u> </u>	Removed Truss Extension for Mounting Walkway detail and references
<u> </u>	Added "L" column and removed TGL and TGL1 from the Summary Table
M OUG 705	Overhead Cian Structure Entrance Manetube Type (Steel) AET Bown Commenced Total Difference
W-OH5-725	Overhead Sign Structure Entrance Monotube Type (Steel) AET Ramp Summary and Total Bill of Mate
	Added Protective Coat (SQ YD) to Summary Table
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure. Clarified Concrete Structures is for Single Face Barrier and included in Summary Table.
	Clarined Concrete Structures is for Single Face Barrier and included in Summary Table.
M OUS 726	Overhead Sign Structure Exit Monetules Type (Steel) AET Bomp Summery and Total Bill of Metarial
WI-OH3-720	Overhead Sign Structure Exit Monotube Type (Steel) AET Ramp Summary and Total Bill of Material Added Protective Coat (SQ YD) to Summary Table
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table.
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Fable.
M-OHS-727	Overhead Sign Structure Exit Monotube Type (Steel) Cash-IPO Ramp Summary and Total Bill of Mate
10110-121	Added Protective Coat (SQ YD) to Summary Table
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.
	Clarified Concrete Structures is for Single Face Barrier and included in Summary Table.
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M-OHS-728	Overhead Sign Structure Span Type (Steel) Summary and Total Bill of Material
	Added Protective Coat (SQ YD) to Summary Table
	Clarified Class SI and Class DS Concrete are included in Foundation For Overhead Sign Structure.
M-OHS-729	Overhead Sign Structure ITS Gantry Frame (Steel) Single Span Structure Details
Sheet 1	Revised Material Specification Table to specify ASTM A500 Gr C & B for Frame & Mounting Beam HSS, respectively.
Sheet 4	Removed Note 6, referring to ASTM requirements of HSS members.
	Revised Note 1 to clarify requirements for Contractor when soil conditions are not met in the field.
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	Page Shoot	Drowings
	Base Sheet Drawing	Modification Summary Effective: 03-31-2016
Tollway Bas	se Sheet Rev	
		Weigh-In-Motion - Series 1600
Section M		WEIGH-IN-MOTION CABINET AND FOUNDATION DETAILS
		WEIGH-IN-MOTION IP CAMERA DETAILS WEIGH-IN-MOTION LOOP DETECTOR DETAILS
		WEIGH-IN-MOTION LOOP DETECTOR DETAILS WEIGH-IN-MOTION DETECTOR LOOP AND QUARTZ SENSOR DETAIL
		INSTALLATION DETAIL DETECTOR HOUSING & DETECTOR HOUSING ADAPTER
		WEIGH-IN-MOTION DETECTOR HOUSING DETAIL
		Flashing Sign Beacon - Series 1700
		FLASHING SIGN BEACON INSTALLATION BREAKAWAY ELECTRICAL DETAIL
	M-115-1701	FLASHING SIGN BEACON INSTALLATION WIRING DIAGRAM
		Conduit Details at Integral Abutment-Series 1900
	M-ITS-1900	CONDUIT DETAILS AT INTEGRAL ABUTMENT BRIDGE STANDARD SLOPE WALL
		Postinos Costano (PHO), Costino 0500
	M-BUS-2500	Business Systems (BUS)- Series 2500 CABLE CONDUIT SCHEDULE AND GENERAL NOTES
		LEGEND SYMBOL LIST, ABBREVIATIONS AND EQUIPMENT SCHEDULES
	M-BUS-2502	SINGLE LINE DIAGRAM AND UTILITY POWER CABLE/CONDUIT SCHEDULE
		CONTROL BUILDING LIGHTING PLAN AND MISCELLANEOUS DETAILS - MAIN PLAZA
		CONTROL BUILDING LIGHTING PLAN AND MISCELLANEOUS DETAILS - REMOTE PLAZA CONTROL BUILDING GROUNDING DETAILS - MAIN PLAZA
		CONTROL BUILDING GROUNDING DETAILS - MAINT LAZA CONTROL BUILDING GROUNDING DETAILS - REMOTE PLAZA
		GROUNDING SCHEMATIC
		CONTROL BUILDING MISCELLANEOUS DETAILS
		UPS SINGLE LINE AND WIRING DIAGRAM MISCELLANEOUS SCHEMATIC DIAGRAMS
		VIDEO POWER JUNCTION BOX DETAIL - MAIN PLAZA
		VIDEO POWER JUNCTION BOX DETAIL - REMOTE PLAZA
		VIDEO WATCHDOG CAMERA DETAILS
		RAMP PLAZA MONOTUBE DETAILS ACM AND IPO LANES LOOP JUNCTION BOX DETAIL
		CONTROL BUILDING LIGHTING AND RECEPTACLE PLAN - MAIN PLAZA
		CONTROL BUILDING LIGHTING AND RECEPTACLE PLAN -REMOTE PLAZA
		MISCELLANEOUS CROSS SECTION DETAILS COMED TRANSFORMER PAD DETAIL
		ELECTRICAL SITE PLAN - ACM AND IPO LANES
		UNDERGROUND ELECTRICAL PLAN - ACM AND IPO LANES - MAIN PLAZA
		PLAZA I-PASS PLANS - ACM AND IPO LANES
		UNDERGROUND ELECTRICAL PLAN - ACM AND IPO LANES - REMOTE PLAZA AUTOMATIC LANE ISLAND PLAN AND DETAILS 12 FOOT WIDE LANE
		IPASS ONLY (IPO) LANE ISLAND PLAN AND DETAILS 12 FOOT WIDE LANE
		TOLL EQUIPMENT WIRING DIAGRAM - ACM AND IPO LANES
		LOOP AND TREADLE INSTALLATION DETAILS - ACM AND IPO LANES
		CONTROL BUILDING TSIC - ACM AND IPO LANES - MAIN PLAZA CONTROL BUILDING TSIC - ACM AND IPO LANES - REMOTE PLAZA
		TSIC TERMINAL BLOCK LAYOUT - ACM AND IPO LANES
	M-BUS-2531	CONTROL BUILDING EQUIPMENT LAYOUT - ACM AND IPO LANES - MAIN PLAZA
		CONTROL BUILDING EQUIPMENT LAYOUT - ACM AND IPO LANES - REMOTE PLAZA
		CONTROL BUILDING R3 RACK - MAIN PLAZA CONTROL BUILDING R3 RACK - REMOTE PLAZA
		MISCELLANEOUS DETAILS -ACM AND IPO LANES
		PANELBOARD SCHEDULES FOR TP1 AND TP2 - ACM AND IPO LANES
		PANELBOARD SCHEDULES FOR MDP AND UPS UNITS - ACM AND IPO LANES
		FIBER INTERCONNECTIONS BETWEEN MAIN AND REMOTE PLAZAS - ACM AND IPO LANES PLAZA LANE CONTROL SIGNAL - ACM AND IPO LANES
		TRAFFIC LIGHT DETAILS - ACM LANES
		TRAFFIC LIGHT DETAILS - IPO LANES
		ELECTRICAL SITE PLAN AET LANES UNDERGROUND CONDUIT PLAN - MAIN PLAZA
		UNDERGROUND CONDUIT PLAN - MAIN PLAZA UNDERGROUND CONDUIT PLAN - MAIN PLAZA PLAN - REMOTE PLAZA
	M-BUS-2545	CONTROL BUILDING EQUIPMENT LAYOUT - REMOTE PLAZA
		CONTROL BUILDING EQUIPMENT LAYOUT - MAIN PLAZA
		CONTROL BUILDING TSIC - MAIN AND REMOTE PLAZAS - AET LANES TSIC TERMINAL BLOCK LAYOUT - ACM AND IPO LANES REMOTE PLAZAS - AET LANES
		PANELBOARD SCHEDULES - MAIN PLAZA AET LANES
	M-BUS-2550	PANELBOARD SCHEDULES - REMOTE PLAZA AET LANES
		WIRING DIAGRAM - AET 3 LANE LAYOUT
		WIRING DIAGRAM - AET 3-LANE LAYOUT LOOP PLAN - AET 1-LANE LAYOUT
		LOOP PLAN - AET 1-LANE LATOUT LOOP PLAN - AET 3-LANE LAYOUT
		VES WASH SYSTEM ENCLOSURE DETAIL
		VES WASH SYSTEM FLOW DIAGRAM AND MECHANICAL DETAIL
		VES WASH SYSTEM FLOW DIAGRAM AND MECHANICAL DETAIL VES WASH SYSTEM SUGGESTED CONDUIT ROUTING
	M-BUS-2559	VES WASH SYSTEM MISCELLANEOUS POWER WIRING DIAGRAM
	M-BUS-2560	VES WASH SYSTEM CONTROL SWITCH SCHEMATIC

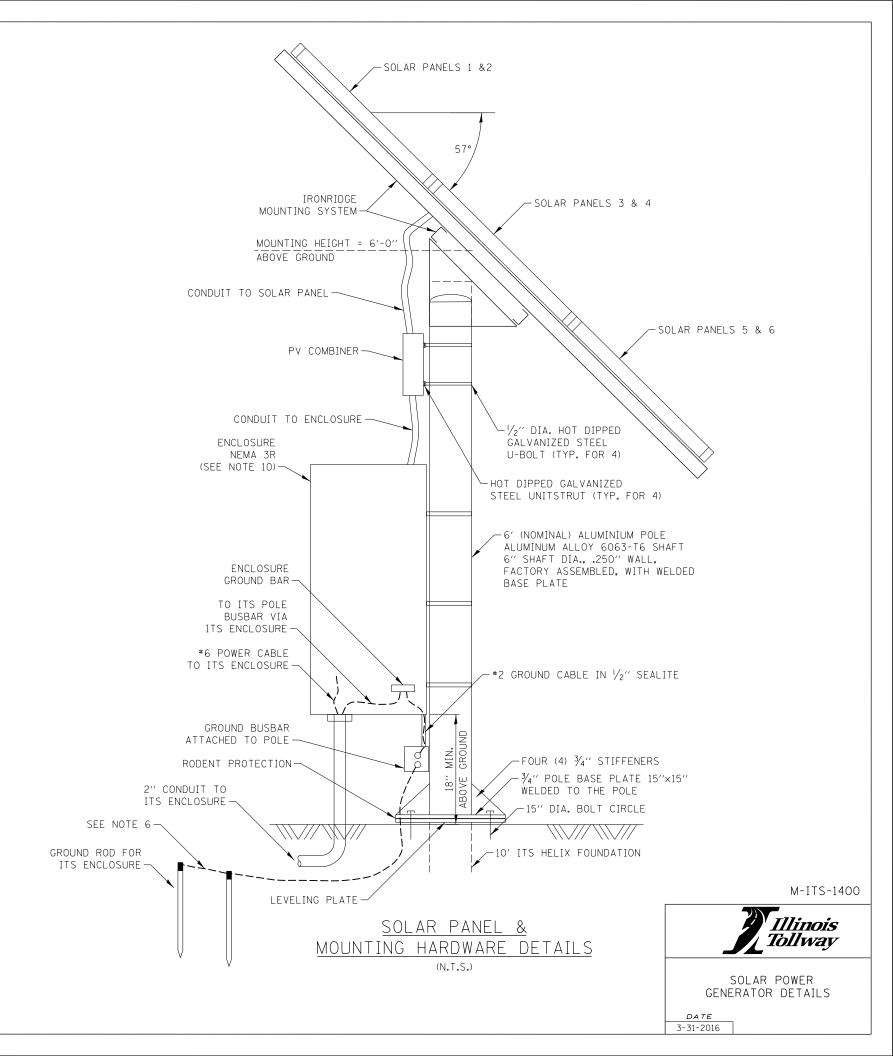
NOTES:

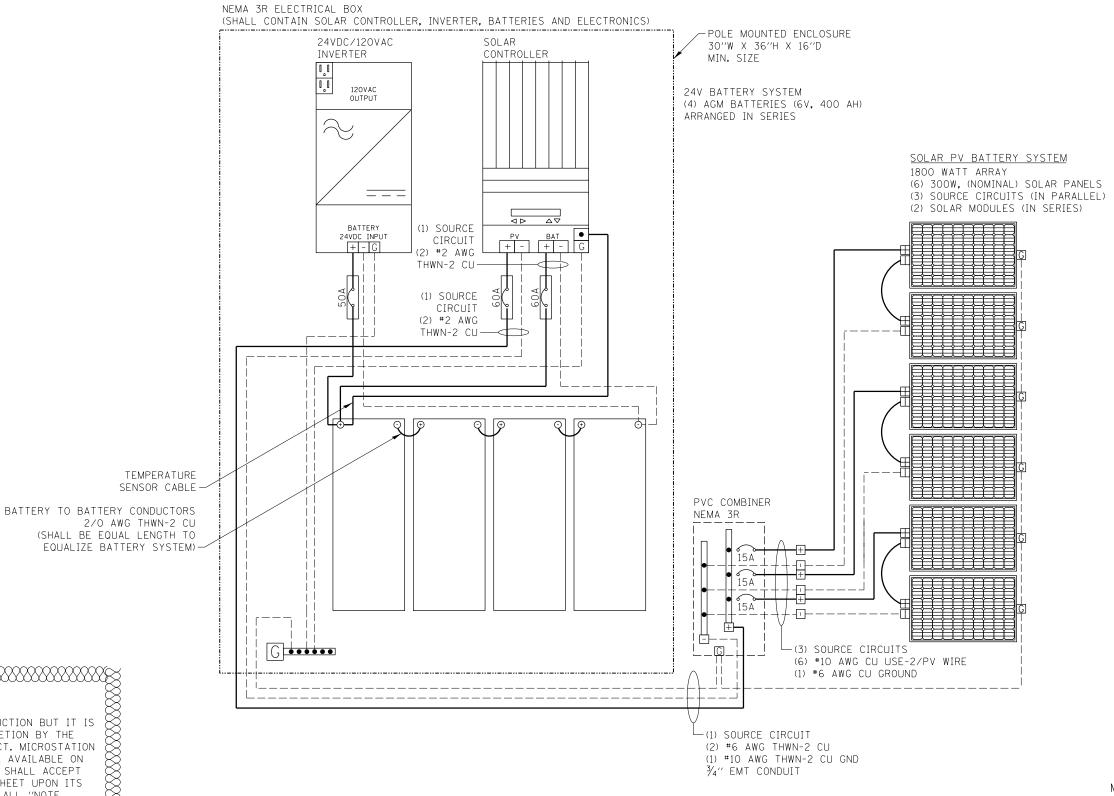
- 1. SOLAR POWER GENERATOR TO INCLUDE PANEL, BRACKETS, CABINET, CHARGER REGULATOR, BATTERIES, AND CABLES. STRUCTURE TO BE DESIGNED TO MEET STRUCTURAL DESIGN CRITERIA IN SPECIFICATION.
- 2. THE BATTERIES SHALL BE WIRED TO PROVIDE 24V DC POWER TO AN INVERTER FOR 120V AC DELIVERY TO ITS ENCLOSURE.
- 3. CONTRACTOR SHALL LOCATE THE GROUND MOUNTED SOLAR PANEL SYSTEM LESS THAN 20' FROM THE POLE-MOUNTED ITS SYSTEM AND ENSURE THAT THE SOLAR PANELS HAVE UNOBSTRUCTED SUN EXPOSURE.
- 4. GROUND MOUNTED SOLAR PANEL POLES INSTALLED WITHIN THE CLEAR ZONE SHALL BE SHIELDED BY BARRIER, LOCATED A MINIMUM OF 5' BEHIND THE PLANE OF ANY GUARDRAIL POSTS. SEE ILLINOIS TOLLWAY GUARDRAIL STANDARD (SECTION C OF STANDARDS) FOR MORE INFORMATION. ALL OTHER POLES SHALL BE LOCATED OUTSIDE THE CLEAR ZONE OR AS DIRECTED BY THE ENGINEER. FINAL LOCATION TO BE APPROVED BY THE ENGINEER.
- 5. ALL EQUIPMENT MUST BE CONNECTED TO A COMMON GROUND THROUGH THE ADJACENT ITS POLE BUSBAR. CONNECT A #2 AWG GROUND CABLE FROM THE EXTERNALLY SOLAR POLE MOUNTED GROUND BUSBAR TO THE GROUND BAR IN THE SOLAR ENCLOSURE. ANY GROUND CONNECTED TO THE EXTERNAL GROUND BUSBAR SHALL BE CADWELDED TO THE BUSBAR, SEALTITE CONDUIT SHOULD BE GROMMETTED ON END GOING TO BUSBAR TO PREVENT RODENTS AND INSECTS FROM ENTERING. A #2 AWG GROUND CABLE SHALL BE ATTACHED TO THE GROUND BUSBAR ATTACHED TO THE ADJACENT ITS POLE AND ROUTED THROUGH THE CONDUIT CONNECTING THE TWO ENCLOSURES AND ATTACHED TO THE GROUND BUSBAR ATTACHED TO THE SOLAR POLE. THE GROUND BUSBAR SHALL CONNECT TO A GROUND ROD (IN AN INSPECTION WELL) FOR THE SOLAR GENERATOR.
- 6. THE SOLAR POWER GENERATOR GROUND ROD SHALL BE CONNECTED TO THE GROUND ROD FOR THE ITS ENCLOSURE VIA A #2 AWG BARE GROUND CABLE CAD WELDED TO BOTH GROUND RODS.
- 7. CONTRACTOR TO PROVIDE ALL POWER AND GROUND WIRING REQUIRED FOR SYSTEM OPERATION WITHIN AND OUTSIDE THE ENCLOSURE.
- 8. BACKFILL HELIX FOUNDATION TO THE TOP OF THE POLE BASE ON ALL SIDES.
- 9. ALL CABLING (INCLUDING CABLING INSIDE THE ENCLOSURE) SHALL BE OUTDOOR RATED. THE GROUND WIRE (WHITE) IN THE POWER CABLE SHALL BE TAPED GREEN.
- 10. ENCLOSURE SHALL BE VENTED AND CONTAIN BATTERIES AND SOLAR CONTROLLER.
- 11. SOLAR PANELS SHALL FACE 186 DEGREES FROM MAGNETIC NORTH AND SHALL BE TILTED 57 DEGREES FROM THE HORIZON.

NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS
NOT A STANDARD DRAWING, IT REQUIRES COMPLETION BY THE
DESIGNER PRIOR TO INSERTION INTO A CONTRACT, MICROSTATION
FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON
THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT
THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS
COMPLETION AND INSERTION INTO A CONTRACT, ALL "NOTE TO
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M-ITS-1401



SOLAR POWER GENERATOR CABINET 1-LINE ELECTRICAL DIAGRAM

DATE 1-31-2015

