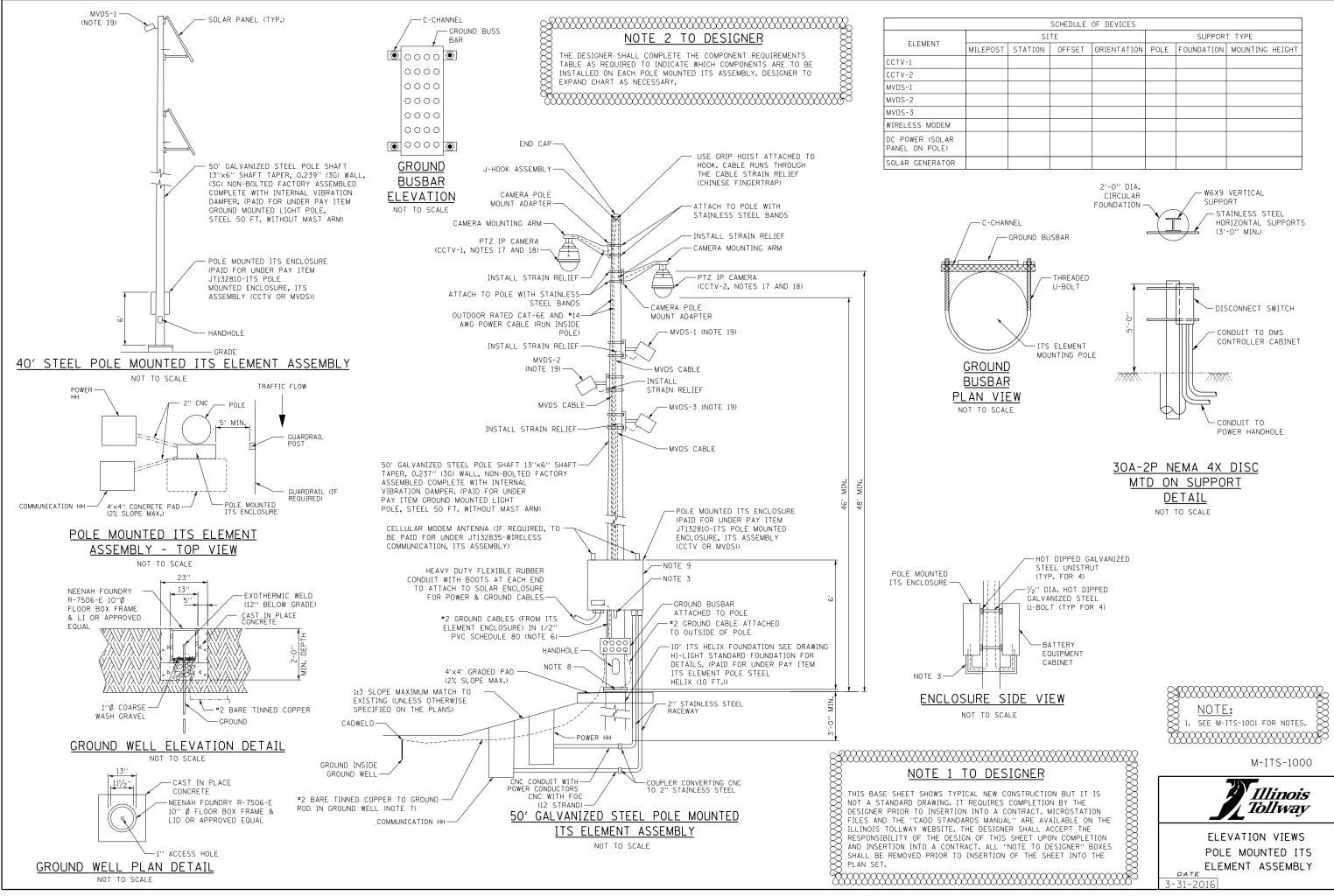
Drawing	Drawings Modification Summary Effective: 03-31-2016
All	The electronic (pdf) version of the Standard Drawing are now made searchable (text).
All	The electronic (pur) version of the Standard Drawing are now made searchable (text).
M-ESC-205	Erosion Sediment Control (ESC)-Series 200 Sediment Basin Dewatering Device Revised Note 7, removed proprietary name from skimmer device.
	Roadway (RDY)-Series 400
M-RDY-408	Approach Slab, Mainline
All	Changed Transverse Reinforcement size and spacing in the bottom mat of the bridge approach slab and transition 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 app shoulder slabs from #5@12" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
All	Changed Longitudinal Reinforcement size and spacing in the top mat of the bridge approach slab and transition ap shoulder slabs from #4@15" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
All	Added note *** to clarify that base sheet reinforcement is for approach slabs not located on retaining walls. If appr is placed on retaining wall, reinforcement shall be designed for TL-5 crash loading.
All	Changed spacing and shape of both dxx vertical bars in the barrier on the bridge approach slab and transition app shoulder 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.
	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 ab
Sheet 3	Eliminated Optional Longitudinal Joint Within a Traffic Lane detail.
Sheet 4	Changed Neoprene Sheet to Elastomeric Sheet to keep call out generic and not specific.
Sheet 5 Sheet 5	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.
Sheer 2	
M-RDY-409	Approach Slab, Ramp
All	Changed Transverse Reinforcement size and spacing in the bottom mat of the bridge approach slab and transitior 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 ap shoulder slabs from #5@12" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
All	Changed Longitudinal Reinforcement size and spacing in the top mat of the bridge approach slab and transition a shoulder slabs from #4@15" to #5@6" to be in conformance with IDOT ABD Memo 15.8.
All	Added note *** to clarify that base sheet reinforcement is for approach slabs not located on retaining walls. If appr is placed on retaining wall, reinforcement shall be designed for TL-5 crash loading.
All	Changed spacing and shape of both dxx vertical bars in the barrier on the bridge approach slab and transition app shoulder 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.
,	Updated Note to Designer for Drainage Structures. Designer to determine size, type and location.
Sheets 1,2 Sheet 3	Changed approach slab shoulder width requirements to match Structures Design Manual. 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 ab
Sheet 3	Eliminated Optional Longitudinal Joint Within a Traffic Lane detail.
Sheet 3	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
-410 -410	
M-RDY-411	Emergency Turnaround Median Width <u>></u> 35 Ft
	Bridge (BRG)-Series 500
M-BRG-506	Expansion Joint Repair
	Base Sheet was removed since details did not match Special Provision.
	Crash Wall Modifications Median Piers
	Note 4 - Changed Reinforcing bars to Reinforcement Bars.
M-BRG-508	Crash Wall Modifications Shoulder Piers
	Note 4 - Changed Reinforcing bars to Reinforcement Bars.
M-BRG-525	Slopewall Details
	Drainage (DRN)-Series 600
M-DRN-601	
M-DRN-601	Revised storm sewer to "Class B, 12".
	Revised storm sewer to "Class B, 12".
M-DRN-601 M-DRN-602	Revised storm sewer to "Class B, 12".

Tollway Base Sheet Revisions

	Modification Summary	Effectives 02 21 2016
Drawing	Modification Summary	Effective: 03-31-2016
	Maintenance of Traffic (I	AOT)-Series 700
M-MOT-700	Temporary Concrete Barrier "Y" Connector Segme	
	Revised Barrier Details Notes.	
	Changed barrier edges chamfered from 1/2" to 1" on all edge	es (optional).
	Overhead Sign (OHS	
M-OHS-720	Overhead Sign Structure Span 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 0110 704	Ouerthand Cine Official Constitution Trans Construction	and Tatal Dill of Matarial
MI-0H5-721	Overhead Sign Structure Cantilever Type Summary Added Protective Coat (SQ YD) to Summary Table	and lotal Bill of Material
	Clarified Class SI and Class DS Concrete are included	in Foundation For Overhead Sign Structure
		In Foundation For Overnead Sign Structure.
M-0HS-722	Overhead Sign Structure Entrance Monotube Type	(Steel) Mainline Summary and Total Bill of Mater
	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	
M-OHS-723	Overhead Sign Structure Exit Monotube Type (Stee	I) 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	
M-OHS-724	Overhead Sign Structure Butterfly Type (Steel) Sun	mary 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.
	Removed Truss Extension for Mounting Walkway deta	
	Added "L" column and removed TGL and TGL1 from the	e Summary Table
M-OHS-725	Overhead Sign Structure Entrance Monotube Type	(Steel) AET Ramp Summary and Total Bill of Mat
	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included	
	Clarified Concrete Structures is for Single Face Barrier	and included in Summary Table.
M-OHS-726	Overhead Sign Structure Exit Monotube Type (Stee	I) 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	
	Clarified Concrete Structures is for Single Face Barrier	and included in Summary Table.
N 0110 707		
M-OHS-727	Overhead Sign Structure Exit Monotube Type (Stee	I) Cash-IPO Ramp Summary and Total Bill of Mat
	Added Protective Coat (SQ YD) to Summary Table	in Foundation For Ourseland Cine Otwasture
	Clarified Class SI and Class DS Concrete are included	
	Clarified Concrete Structures is for Single Face Barrier	and included in Summary Table.
M-046-200	Clarified Concrete Structures is for Single Face Barrier	·
M-OHS-728	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summa	·
M-OHS-728	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summa Added Protective Coat (SQ YD) to Summary Table	ry and Total Bill of Material
M-OHS-728	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summa	ry and Total Bill of Material
	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summa Added Protective Coat (SQ YD) to Summary Table Clarified Class SI and Class DS Concrete are included	ry and Total Bill of Material in Foundation For Overhead Sign Structure.
M-OHS-729	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summa Added Protective Coat (SQ YD) to Summary Table Clarified Class SI and Class DS Concrete are included Overhead Sign Structure ITS Gantry Frame (Steel)	ry and Total Bill of Material in Foundation For Overhead Sign Structure. Single Span Structure Details
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M-OHS-729 Sheet 1 Sheet 5 Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7 M-OHS-730 Sheet 1 Sheet 1 Sheet 4 Sheet 6 Sheet 6 Sheet 6 Sheet 6 Sheet 7	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summa Added Protective Coat (SQ YD) to Summary Table Clarified Class SI and Class DS Concrete are included Overhead Sign Structure ITS Gantry Frame (Steel) Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Added note 5 to clarify limits of protective coat and revised p Overhead Sign Structure ITS Gantry Frame (Steel) Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s	ry and Total Bill of Material in Foundation For Overhead Sign Structure. Single Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. rotective coat quantity in Median Foundation Schedule. Fwo-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. oil conditions are not met in the field. pplied to shoulder foundation.
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M-OHS-729 Sheet 1 Sheet 4 Sheet 5 Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7 Sheet 1 Sheet 4 Sheet 4 Sheet 6 Sheet 6 Sheet 6 Sheet 6 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1001 M-ITS-1100 M-ITS-1103	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summary Added Protective Coat (SQ YD) to Summary Table Clarified Class SI and Class DS Concrete are included Overhead Sign Structure ITS Gantry Frame (Steel) S Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Added note 5 to clarify limits of protective coat and revised p Overhead Sign Structure ITS Gantry Frame (Steel) Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Added note 5 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Added note 5 to clarify limits of protective coat and revised p Pole Assembly-Se ELEVATION VIEWS POLE MOUNTED ITS ELEMENT ASS Added 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA GENERAL NOTES POLE MOUNTED ITS ELEMENT ASSE Added Note 16 regarding disconnect switch usage. ITS STANDARD FOUNDATION: New Sheet Dynamic Message Sign (I Revised conduit call-outs	ry and Total Bill of Material in Foundation For Overhead Sign Structure. Single Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. rotective coat quantity in Median Foundation Schedule. Fwo-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. rotective coat quantity in Median Foundation Schedule. Fries 1000 SEMBLY AlL. MBLY IL. Removed pad mounted transformer.
M-OHS-729 Sheet 1 Sheet 4 Sheet 5 Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7 Sheet 1 Sheet 4 Sheet 4 Sheet 6 Sheet 6 Sheet 6 Sheet 6 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1001 M-ITS-1100 M-ITS-1103	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summa Added Protective Coat (SQ YD) to Summary Table Clarified Class SI and Class DS Concrete are included Overhead Sign Structure ITS Gantry Frame (Steel) S Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Added note 5 to clarify limits of protective coat and revised p Overhead Sign Structure ITS Gantry Frame (Steel) Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Added note 5 to clarify limits of protective coat and revised p Dele Assembly-Se ELEVATION VIEWS POLE MOUNTED ITS ELEMENT ASSE Added Note 16 regarding disconnect switch usage. ITS STANDARD FOUNDATION: New Sheet Dynamic Message Sign (I Revised conduit call-outs Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA	ry and Total Bill of Material in Foundation For Overhead Sign Structure. Single Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. rotective coat quantity in Median Foundation Schedule. Fwo-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. rotective coat quantity in Median Foundation Schedule. emises 1000 SEMBLY ML. MBLY IL. Removed pad mounted transformer. IL. Revised Note 2 to eliminate 120/208V and pad mount.
M-OHS-729 Sheet 1 Sheet 4 Sheet 5 Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7 M-OHS-730 Sheet 7 Sheet 7 Sheet 6 Sheet 6 Sheet 6 Sheet 6 Sheet 6 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1100 M-ITS-1103 M-ITS-1104	Clarified Concrete Structures is for Single Face Barrier Overhead Sign Structure Span Type (Steel) Summary Added Protective Coat (SQ YD) to Summary Table Clarified Class SI and Class DS Concrete are included Overhead Sign Structure ITS Gantry Frame (Steel) S Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Added note 5 to clarify limits of protective coat and revised p Overhead Sign Structure ITS Gantry Frame (Steel) Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify requirements for Contractor when s Removed Protective Coat quantity since not required to be a Updated anchor bolt note to allow ASTM F1554 bolts. Revised Note 1 to clarify limits of protective coat and revised p Pole Assembly-Se ELEVATION VIEWS POLE MOUNTED ITS ELEMENT ASS Added 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA General NOTES POLE MOUNTED ITS ELEMENT ASS Added Note 16 regarding disconnect switch usage. ITS STANDARD FOUNDATION: New Sheet Dynamic Message Sign (I Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA	ry and Total Bill of Material in Foundation For Overhead Sign Structure. Single Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. rotective coat quantity in Median Foundation Schedule. Fwo-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. oil conditions are not met in the field. pplied to shoulder foundation. rotective coat quantity in Median Foundation Schedule. eries 1000 EMBLY ML. MBLY IL. Removed pad mounted transformer. IL. Revised Note 2 to eliminate 120/208V and pad mount.
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		Drawings Effective: 03-31-2016
ay Ba	se Sheet Rev	
		Weigh-In-Motion - Series 1600
on M	M-WIM-1600	WEIGH-IN-MOTION CABINET AND FOUNDATION DETAILS
	M-WIM-1601	WEIGH-IN-MOTION IP CAMERA 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
	M-ITS-1700	FLASHING SIGN BEACON INSTALLATION BREAKAWAY ELECTRICAL DETAIL
		FLASHING SIGN BEACON INSTALLATION WIRING DIAGRAM
	WEIT 0-1701	
		Conduit Details at Integral Abutment-Series 1900
	M-ITS-1900	CONDUIT DETAILS AT INTEGRAL ABUTMENT BRIDGE STANDARD SLOPE WALL
		Business Systems (BUS)- Series 2500
	M-BUS-2500	CABLE CONDUIT SCHEDULE AND GENERAL NOTES
		LEGEND SYMBOL LIST, ABBREVIATIONS AND EQUIPMENT SCHEDULES
		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 - MAINT LAZA
		CONTROL BUILDING GROUNDING DETAILS - MAIN PLAZA
		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
	M-BUS-2515	LOOP JUNCTION BOX DETAIL
		CONTROL BUILDING LIGHTING AND RECEPTACLE PLAN - MAIN PLAZA
	M-BUS-2517	CONTROL BUILDING LIGHTING AND RECEPTACLE PLAN -REMOTE PLAZA
	M-BUS-2518	MISCELLANEOUS CROSS SECTION DETAILS
	M-BUS-2519	COMED TRANSFORMER PAD DETAIL
	M-BUS-2520	ELECTRICAL SITE PLAN - ACM AND IPO LANES
	M-BUS-2521	UNDERGROUND ELECTRICAL PLAN - ACM AND IPO LANES - MAIN PLAZA
	M-BUS-2522	PLAZA I-PASS PLANS - ACM AND IPO LANES
	M-BUS-2523	UNDERGROUND ELECTRICAL PLAN - ACM AND IPO LANES - REMOTE PLAZA
	M-BUS-2524	AUTOMATIC LANE ISLAND PLAN AND DETAILS 12 FOOT WIDE LANE
	M-BUS-2525	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
		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 PLAN - REMOTE PLAZA
		CONTROL BUILDING EQUIPMENT LAYOUT - REMOTE PLAZA
		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
		PANELBOARD SCHEDULES - MAIN PLAZA AET LANES PANELBOARD SCHEDULES - REMOTE PLAZA AET LANES
		WIRING DIAGRAM - AET 1-LANE LAYOUT
		WIRING DIAGRAM - AET 3-LANE LAYOUT
		LOOP PLAN - AET 1-LANE LAYOUT LOOP PLAN - AET 3-LANE LAYOUT
		VES WASH SYSTEM ENCLOSURE DETAIL
		VES WASH SYSTEM FLOW DIACDAM AND MECHANICAL DETAIL
		VES WASH SYSTEM FLOW DIAGRAM AND MECHANICAL DETAIL
		VES WASH SYSTEM SUGGESTED CONDUIT ROUTING
		VES WASH SYSTEM MISCELLANEOUS POWER WIRING DIAGRAM
	M-BUS-2560	VES WASH SYSTEM CONTROL SWITCH SCHEMATIC

New Sheet



SCHEDULE OF DEVICES						
	SI	TE			SUPPOR	T TYPE
ILEPOST	STATION	OFFSET	ORIENTATION	POLE	FOUNDATION	MOUNTING HEIGHT

GENERAL NOTES:

- ITS ELEMENT POLES SHIELDED BY GUARDRAIL SHALL BE LOCATED A MINIMUM OF 5' TO A MAXIMUM OF 20' BEHIND THE GUARDRAIL POST. SEE ILLINOIS TOLLWAY GUARDRAIL STANDARD (SECTION C OF STANDARDS) FOR MORE INFORMATION. ALL OTHER POLES SHALL BE LOCATED OUTSIDE THE CLEAR ZONE. FINAL LOCATION TO BE APPROVED BY THE ENGINEER.
- 2. ANY GROUND CABLES ROUTED INSIDE THE ENCLOSURE SHALL BE GREEN INSULATED TYPE RHW CONDUCTORS. ANY GROUND CONDUCTORS THAT ARE BURIED SHALL BE BARE COPPER TINNED. ANY GROUND CONNECTED TO THE EXTERNAL GROUND BUSBAR SHALL BE CADWELDED TO THE BUSBAR. PVC SCH 80 CONDUIT SHOULD BE GROMMETTED ON END GOING TO BUSBAR TO PREVENT RODENTS AND INSECTS FROM ENTERING.
- 3. PROVIDE A $1^{\prime}\!/_{2}{}^{\prime\prime}$ ALUMINUM CONDUIT NIPPLE WITH LB FITTING FOR ROUTING ITS ELEMENT CABLES INSIDE THE POLE TO THE EQUIPMENT ENCLOSURE. DRILL AND TAP POLE FOR THE CONDUIT NIPPLE, CABLE SLACK SHALL BE PULLED AND FASTENED WITHIN THE TOP OF THE POLE. PROPER CABLE STRAIN RELIEF SHALL BE INSTALLED AND APPROVED BY THE ENGINEER. ALL CABLE RUN INSIDE THE POLE SHALL NOT HANG BELOW THE TOP OF THE HANDHOLE COVER ON THE POLE.
- 4. ALL CONDUITS ENTERING THE ENCLOSURE SHALL BE SEALED WITH DUCT SEAL PUTTY TO PREVENT RODENTS OR INSECTS FROM ENTERING THE ENCLOSURE. THE LB FITTING FROM THE POLE TO THE ENCLOSURE SHALL BE SEALED ON THE POLE SIDE AND THE ENCLOSURE SIDE. UPON COMPLETION OF INSTALLATION, ALL OPEN CONDUITS SHALL BE FILLED WITH 4 INCHES OF STEEL WOOL AND 4 INCHES OF SPRAY FOAM SEALANT TO SEAL GAPS AND CRACKS, FOR RODENT PROTECTION. WORK IS INCIDENTAL TO CABINET INSTALLATION.
- 5. CONTRACTOR TO PROVIDE ALL POWER, COMMUNICATIONS AND GROUND WIRING REQUIRED FOR SYSTEM OPERATION. WORK IS INCIDENTAL TO ENCLOSURE INSTALLATION.
- 6. ATTACH PVC SCH 80 CONDUIT TO POLE FOR SUPPORT. USE METAL BUSHING WHEN CONNECTING PVC TO CABINET. USE GROMMETS AT BOTH ENDS OF CONDUIT TO SEAL CONDUIT BUT ALLOW GROUND CABLE TO RUN THROUGH BOTH ENDS.
- 7. GROUND ROD SHALL BE PLACED A MINIMUM OF 10' FROM THE FOUNDATION. A GROUND WELL SHALL BE INCLUDED TO PERMIT ACCESS TO THE GROUND ROD CONNECTION. CONNECTION TO THE GROUND BUSBAR AND THE GROUND ROD SHALL BE CADWELD.
- 8. A FLAT STEEL MESH PANEL ALONG WITH A COMMERCIALLY AVAILABLE HYDROPHOBIC LOW DENSITY COMPOSITE BACKFILL MATERIAL (KNOWN AS Q-SET 250) SHALL BE INSTALLED BETWEEN THE ANCHOR BASE AND THE POLE TO PREVENT THE ENTRY OF RODENTS INTO THE POLE. SEE SPECIAL PROVISIONS FOR MORE DETAILS.
- 9. THIS ITS ELEMENT ENCLOSURE DETAIL WILL BE UTILIZED FOR POLE MOUNTED APPLICATIONS ONLY, IT CANNOT BE UTILIZED FOR TOWER MOUNTED APPLICATION.
- 10. BACKFILL PER ILLINOIS TOLLWAY STANDARD H1. BACKFILL SHALL BE TO THE TOP OF THE POLE BASE ON ALL SIDES.
- 11. ALL CABLING (INCLUDING CABLING INSIDE THE ENCLOSURE) IS OUTDOOR RATED. CAMERA CABLE PART NUMBERS ARE: CAT-6E CABLE (BELDEN CATALOG NO. 7953A) AND #14 AWG 3/C CCTV POWER CABLE (BELDEN CATALOG NO. 9367). THE GROUND WIRE (WHITE) IN THE 3/C #14 AWG POWER CABLE SHALL BE TAPED GREEN. ANY OTHER ITS ELEMENT WILL USE SPECIFIC CABLE ASSOCIATED TO THAT ELEMENT.
- 12. THE J-HOOK SHALL BE WELDED IN PLACE TO THE SIDE OF THE POLE, NEAR THE TOP OF THE POLE. THE CONTRACTOR SHALL PROVIDE A CUSTOM FLAT TOP POLE CAP THAT WILL FIT THE POLE TOP WITH THE J-HOOK WELDED TO THE SIDE. THE POLE CAP SHALL BE SECURED TO THE POLE BY DRILLING AND INSERTING SET SCREWS.
- 13. THIS DRAWING IS A MULTI-PURPOSE DRAWING THAT INCLUDES TWO TYPES OF CONNECTIONS TO A SOLAR POWERED BATTERY ENCLOSURE. IF SOLAR POWER IS UTILIZED, THEN THE SPECIAL PROVISIONS WILL CALL OUT THE MATERIAL AND NECESSARY CONNECTIONS TO THE ITS ELEMENT ENCLOSURE.
- 14. IN LOCATIONS WHERE CROSS SLOPES ARE GREATER THAN 1:4, AND AS NOTED IN THE PLANS, CONSTRUCT A PCC SIDEWALK, 5 INCH (42400200) (4FT. X 4FT.), USING A SUB-BASE GRANULAR MATERIAL (31101220) IN LIEU OF THE GRADING PAD.
- 15. THREE WEEKS PRIOR TO INSTALLING ANY NEW CCTV CAMERA, MVDS, SWITCH, WIRELESS OR FIBER OPTIC MODEM, THE CONTRACTOR SHALL COORDINATE DEVICE CONFIGURATION WITH THE ENGINEER.
- 16. THE DISCONNECT SWITCH, SUPPORT, AND ASSOCIATED CONDUIT SHALL BE INSTALLED FOR ITS SITES WHERE THE UTILITY SERVICE INSTALLATION IS GREATER THAN 500 FEET FROM THE ITS SITE OR LOCATED ON THE OPPOSITE SIDE OF THE ROADWAY FROM THE ITS SITE.
- 17. ALL SLOPE RATIONS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

CCTV NOTES:

- 18. FINAL PLACEMENT HEIGHTS OF THE CCTV CAMERAS SHALL BE BASED ON SITE CONDITIONS, ILLINOIS TOLLWAY OPERATIONAL NEEDS, AND AS PER MANUFACTURER'S MOUNTING RECOMMENDATIONS. THE HEIGHT SHALL BE APPROVED BY THE ENGINEER ONLY AFTER REVIEW BY ILLINOIS TOLLWAY ITS OPERATIONS.
- SEE SPECIFIC MANUFACTURER INSTRUCTIONS FOR MORE DETAILS.

MVDS NOTES:

- 20. FINAL PLACEMENT HEIGHT OF THE MVDS SHALL BE BASED ON SITE CONDITIONS. REFER TO TO THE ROADWAY IT IS INTENDING TO BE SENSING.
- 21. TWO MVDS UNITS ARE REQUIRED FOR THE FOLLOWING APPLICATIONS: A) GATHER DATA FROM A MAINLINE ROADWAY SENSOR APPLICATION THAT REQUIRES TWO SENSORS.
 - B) ONE MVDS MAY BE UTILIZED FOR MAINLINE ROADWAY SENSING, WHILE THE SECOND IS UTILIZED FOR RAMP COUNTING OR ROD. THE CONTRACTOR SHALL ORIENT THE MVDS UNITS PERPENDICULAR TO THE ROADWAY

MOTE 2 TO

		DESCRIPTION		- IP RELAY WIRING	CONNECTION	τo
IP	TERMINAL	IP TERMINAL ASSIGNMENT	DEVICE		DEVICE	
	LINNINAL	II TERMINAL ASSIGNMENT	IP RELAY	1 NC	CIRCUIT BREAKER	CB4B
	1	CCTV1	IP RELAY	1 COMM	SURGE SUPPRESSOR	DIN 1
			IP RELAY	2 NC	CIRCUIT BREAKER	CB5B
	2	CCTV2	IP RELAY	2 COMM	SURGE SUPPRESSOR	DIN 2
		RESERVED FOR				
	3	DMS LOAD SHEDDING RELAY				
		RESERVED FOR				
	4	DMS CONTROLLER				
		RESERVED FOR				
	5	FLASHING BEACONS				
			IP RELAY	6 NC	CIRCUIT BREAKER	CB6B
	6	MVDS 3	IP RELAY	6 COMM	T-BUS	DIN 6
			IP RELAY	7 NC	CIRCUIT BREAKER	CB7B
	7	MVDS 1	IP RELAY	7 COMM	T-BUS	DIN 7
			IP RELAY	8 NC	CIRCUIT BREAKER	CB8B
	8	MVDS 2	IP RELAY	8 COMM	T-BUS	DIN 8

	88	585	89	<u>58</u>	82	59	8
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IN ACCORDANCE WITH IL

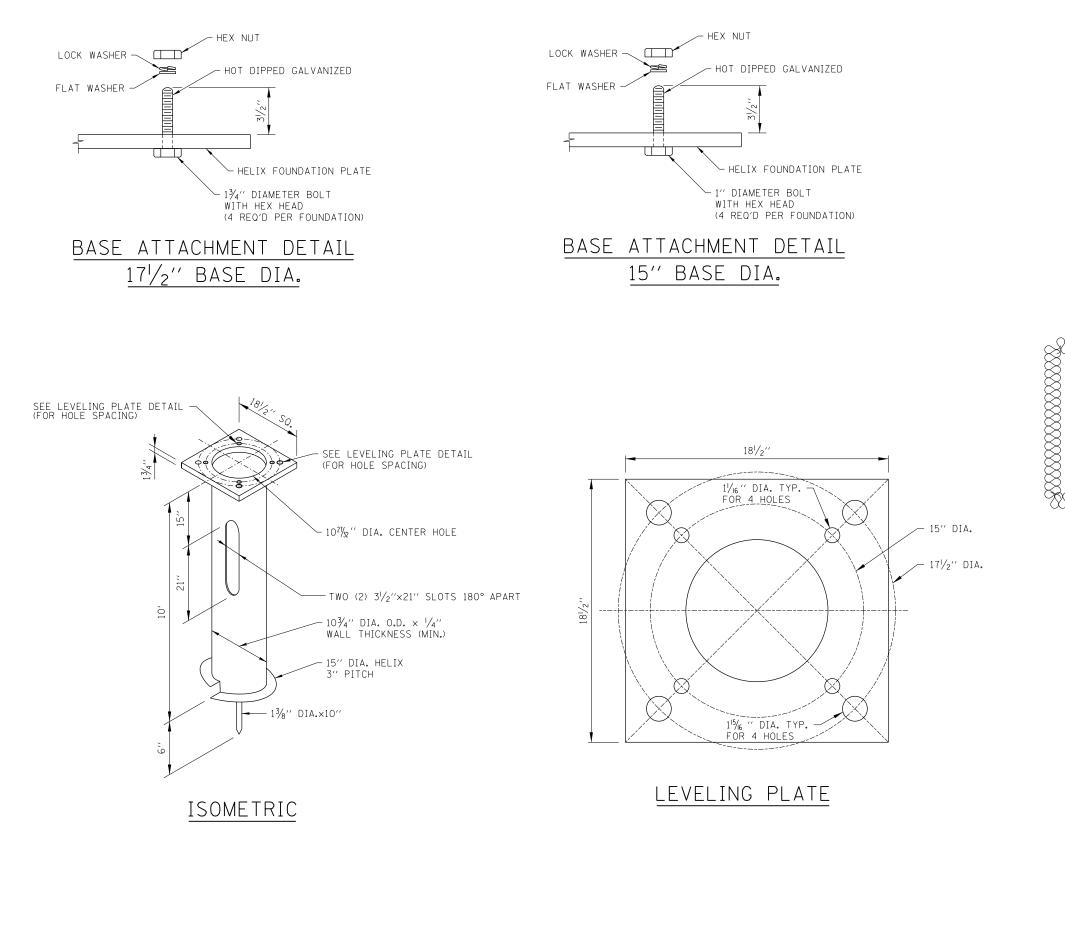
NOTE 1 TO DE THIS BASE SHEET SHOWS TYPICAL NEW NOT A STANDARD DRAWING. IT REQUIR DESIGNER PRIOR TO INSERTION INTO A FILES AND THE "CADD STANDARDS MAN ILLINOIS TOLLWAY WEBSITE. THE DESI RESPONSIBILITY OF THE DESIGN OF TH COMPLETION AND INSERTION INTO A C DESIGNER" BOXES SHALL BE REMOVED SHEET INTO THE PLAN SET.

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	M-ITS-1001
VESIGNER W construction but it is Res completion by the A contract. Microstation Nual" are available on the	Illinois Tollway
IGNER SHALL ACCEPT THE THIS SHEET UPON ITS CONTRACT. ALL "NOTE TO PRIOR TO INSERTION OF THE	GENERAL NOTES POLE MOUNTED ITS ELEMENT ASSEMBLY
	<i>DATE</i> 3-31-2016

<u>IOTE 3 TO DESIGNER</u> 🛛 🛞
THE "ITS ASSEMBLY CABINET - IP RELAY WIRING TABLE"

THE MVDS MANUFACTURER'S INSTALLATION GUIDE FOR RECOMMENDATIONS. THE HEIGHT SHALL BE APPROVED BY THE ENGINEER. THE MVDS SHALL BE PERPENDICULARLY ALIGNED

19. CONTRACTOR TO SEAL THE CAMERA HOUSING PER THE MANUFACTURER'S RECOMMENDATION.



HELIX - GROUND MOUNTED ASSEMBLY



DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

M-ITS-1002



ITS STANDARD FOUNDATION

дате 3-31-2016