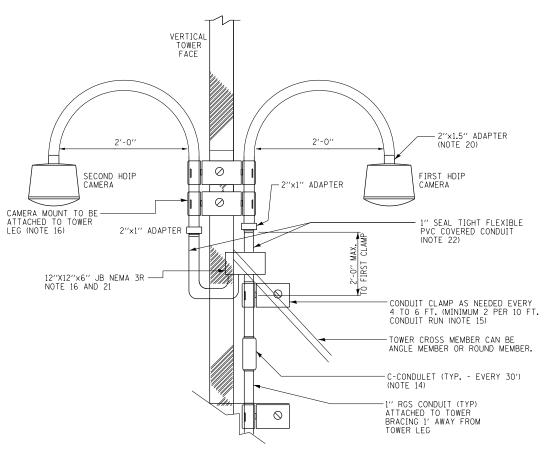
### Illinois Tollway Base Sheet Revisions

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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	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>&gt;</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.
M-BRG-507 M-BRG-508	
M-BRG-507 M-BRG-508	Note 4 - Changed Reinforcing bars to Reinforcement Bars.  Crash Wall Modifications Shoulder Piers  Note 4 - Changed Reinforcing bars to Reinforcement Bars.
M-BRG-507 M-BRG-508	Note 4 - Changed Reinforcing bars to Reinforcement Bars.  Crash Wall Modifications Shoulder Piers  Note 4 - Changed Reinforcing bars to Reinforcement Bars.  Slopewall Details
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.
	The same and the s
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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Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7  M-OHS-730 Sheet 1	Removed Protective Coat quantity since not required to be applied to shoulder foundation.  Updated anchor bolt note to allow ASTM F1554 bolts.  Revised Note 1 to clarify requirements for Contractor when soil conditions are not met in the field.  Removed Protective Coat quantity since not required to be applied to shoulder foundation.  Added note 5 to clarify limits of protective coat and revised protective coat quantity in Median Foundation Schedule.  Overhead Sign Structure ITS Gantry Frame (Steel) Two-Span Structure Details  Revised Material Specification Table to specify ASTM A500 Gr C & B for Frame & Mounting Beam HSS, respectively.
Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7  M-OHS-730 Sheet 1 Sheet 4	Removed Protective Coat quantity since not required to be applied to shoulder foundation.  Updated anchor bolt note to allow ASTM F1554 bolts.  Revised Note 1 to clarify requirements for Contractor when soil conditions are not met in the field.  Removed Protective Coat quantity since not required to be applied to shoulder foundation.  Added note 5 to clarify limits of protective coat and revised protective coat quantity in Median Foundation Schedule.  Overhead Sign Structure ITS Gantry Frame (Steel) Two-Span Structure Details  Revised Material Specification Table to specify ASTM A500 Gr C & B for Frame & Mounting Beam HSS, respectively.  Removed Note 6, referring to ASTM requirements of HSS members.
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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



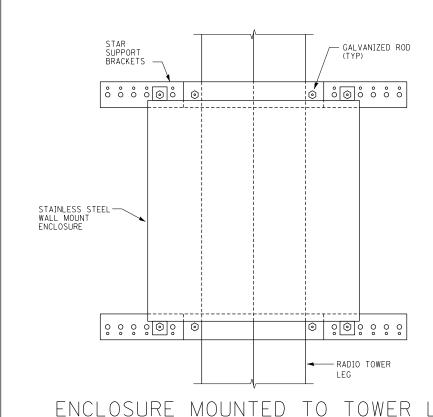
NOTE TO DESIGNER

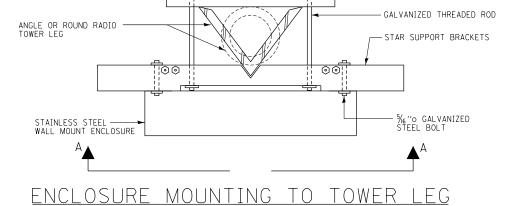
THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT, MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF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

ROUTING OF CONDUIT AND CABLES TO PLAZA/TOWER BUILDING SHALL BE SHOWN FOR EACH INSTALLATION OCCURRENCE DEPICTING ACTUAL CONDITIONS. INSTALLATION AND ROUTING OF EQUIPMENT AND CABLES SHALL BE SHOWN IN PLAN VIEW FORMAT AS WELL AS DESCRIBE THE LOCATION AND POSITION OF WALL MOUNT, RACK MOUNT AND CABLE TRAY POSITIONS WITHIN THE PLAZA/TOWER BUILDING. CISCO SWITCH PORTS TO BE USED SHALL BE IDENTIFIED.

## CCTV FQUIPMENT MOUNTING SCHEME ATTICED TOWER

(NOT TO SCALE)





### ABBREVIATIONS:

AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN SOCIETY OF CIVIL ENGINEERS TELECOMMUNICATION INDUSTRY ASSOCIATION AISC ASCE TIA RIGID GALVANIZED STEEL

JUNCTION BOX

#### **GENERAL NOTES:**

- CONTRACTOR IS RESPONSIBLE FOR FINAL ATTACHMENT DETAILS BASED ON THE DRAWINGS AND PRE-INSTALLATION MEETING WITH ILLINOIS TOLLWAY.
- 2. APPLICABLE DESIGN CRITERIA SHALL BE PER THE LATEST EDITION OF AISC MANUAL, ASCE 7-05, TIA-222-G, AND APPLICABLE NATIONAL, STATE, AND OR LOCAL BUILDING CODES.
- 3. EQUIPMENT MOUNTING SHALL ALSO MEET REQUIREMENTS LISTED IN SPECIAL PROVISIONS.
- 4. DESIGN LOADS SHALL BE AS FOLLOWS:
  - DEAD LOADS SHALL INCLUDE ALL EQUIPMENT LOADS, INCLUDING CONDUIT AND MOUNTING LOADS SHALL BE CONSIDERED IN THE DESIGN. PTZ HDIP CAMERA WEIGHT SHALL BE ASSUMED TO WEIGH MINIMUM 10.14 LBS. ACTUAL LOAD SHALL BE VERIFIED FOR THE SPECIFIED MODEL FROM VENDOR.
  - DESIGN SEISMIC ACCELERATION AND WIND SPEED SHOULD BE DETERMINED FROM APPLICABLE BUILDING CODES
  - DESIGN LOAD COMBINATIONS SHOULD BE DETERMINED FROM APPLICABLE BUILDING CODES AND DESIGN STANDARDS. DESIGN SHALL BE BASED ON ALLOWABLE STRESS DESIGN (A.S.D.) METHOD.
- 5. MOUNTING HEIGHTS FOR CAMERA WILL BE AS CLOSE TO TOWER TOP AS PRACTICAL, UNLESS ILLINOIS TOLLWAY OR ENGINEER SPECIFIES OTHERWISE. THE PLAN LOCATION SHALL BE COORDINATED WITH THE ILLINOIS TOLLWAY AND ENGINEER.
- 6. NO HOLES CAN BE DRILLED AND NO WELDING IS ALLOWED INTO TOWER MEMBERS. DO NOT MOUNT RIGID CONDUIT TO TRANSMISSION LINE LADDER, CAMERA AND ANTENNA SHALL BE MOUNTED ON TOWER VERTICAL LEGS ONLY AT A MINIMUM OF 1'-O" AWAY FROM TOWER LEG.
- CONDUIT HANGERS AND MANUFACTURER SHOWN IN DRAWINGS ARE REPRESENTATIVE ONLY, CONTRACTOR SHALL ONLY CHOOSE MANUFACTURED HARDWARE THAT HAS A RATED "DESIGN LOAD" FROM THE VENDOR AND IS CAPABLE OF RESISTING ALL APPLIED LOADS. A MINIMUM FACTOR OF SAFETY OF 5 SHALL BE ENSURED. VENDOR SPECIFIED "DESIGN LOAD" BASED ON F.S. < 5 SHALL BE PROPORTIONATELY DERATED (E.G. IF DESIGN LOAD IS BASED ON F.S. OF 3, IT SHALL BE DERATED TO 60%).
- 8. NOT USED.
- 9. CONTRACTOR IS RESPONSIBLE FOR THEIR QUALITY CONTROL AND PROVIDING DOCUMENTATION THAT ALL BOLTS ARE TORQUED AND HARDWARE TIGHTENED TO MANUFACTURER'S ESTABLISHED REQUIREMENTS.
- 10. CONTRACTOR, THROUGH THE ENGINEER, SHALL COORDINATE CAMERA AND ANTENNA MOUNTING WITH ILLINOIS TOLLWAY'S TOWER CREW, AT LEAST ONE WEEK BEFORE PROPOSED INSTALLATION. CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS AND EQUIPMENT FOR COMPLETE INSTALLATION OF CAMERA AND ANTENNAS AT EACH PLAZA.
- 11. COMMUNICATIONS EQUIPMENT ENCLOSURE SHALL BE MOUNTED TO TOWER LEG.
- 12. UNLESS THESE ARE PART OF MANUFACTURED ASSEMBLY, THREADED RODS AND U-BOLTS SHALL BE HOT-DIPPED GALVANIZED STEEL). IN SOME CASES DUE TO MANUFACTURED PART AVAILABILITY, THREADED RODS AND U-BOLTS MAY BE STAINLESS STEEL. IN THIS CASE, THEY MUST CONFORM TO ASTM A193, CLASS I, GRADE BB (A1SI TYPE 304), WASHERS SHALL CONFORM TO ASTM A240, TYPE 302, NUTS SHALL CONFORM TO ASTM A194 (AASHTO M292), GRADE BI (A1SI TYPE 303). ALL THREADED RODS AND U-BOLTS TO BE DOUBLE NUTTED. MATERIAL FOR STRUCTURAL STEEL, ANGLES, ETC. SHALL BE A36 AND SHALL BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM 4123.
- 13. CONDUIT OUTLET BODY WITH COVER SHALL BE MALLEABLE IRON WITH TRIPLE COAT FINISH OR EPOXY POWDER COATED ALUMINUM. OUTLET BODY SHALL BE SEALED TIGHT WITH
- 14. CABLE STRAIN RELIEF STARTS AT THE 12"x12"x6" JUNCTION BOX. FROM THAT POINT DOWN, C-CONDULETS SHALL BE UTILIZED EVERY 30'-0". THE CONTRACTOR IS RESPONSIBLE FOR UTILIZING STRAIN RELIEVE TECHNIQUES IN THE CONDULETS AND JUNCTION BOX. FOR EXAMPLE CHINESE FINGER TRAPS CAN BE UTILIZED OR WEDGES. THE CONTRACTOR WILL COORDINATE THIS EFFORT WITH THE ENGINEER AND THE ILLINOIS TOLLWAY TOWER CREW. JUNCTION BOX SHALL HAVE WEEP HOLES IN BOTTOM TO ALLOW MOISTURE TO BLEED OFF. JB SHALL HAVE A NON-CORROSIVE TERMINAL STRIP SO IT CAN BE USED AS A TRANSITION POINT FOR CABLING. THE CONTRACTOR SHALL SPOOL UP APPROXIMATELY 1'-0" OF CABLE AS TO ALLOW MAINTENANCE OF THE CAMERA.
- 15. ALL NECESSARY MOUNTING HARDWARE AND BRACKETS NECESSARY TO ATTACH THE EQUIPMENT, RACEWAYS AND PULL BOXES TO THE TOWER SHALL BE PRE-MANUFACTURED AND NOT BE BUILT IN THE FIELD WITH INDIVIDUAL COMPONENTS.
- 16. CAMERA ATTACHMENTS TO TOWER LEG SHALL BE AT MINIMUM OF 2 LOCATIONS UTILIZING UNIVERSAL SADDLE MOUNTS OR WELDED PIPE TO PIPE CLAMPS DEPENDING ON THE TOWER TYPE. CONTRACTOR TO DETERMINE PROPER SIZE. U-BOLTS WILL BE REQUIRED. THE GOOSE NECK MOUNT TO THE TOWER SHALL BE SET PLUMB SO AS TO PROVIDE A
- 17. ALL WORK WILL REQUIRE CLOSE COORDINATION WITH ILLINOIS TOLLWAY STAFF AND THE ENGINEER. THIS INCLUDES A PRE-INSTALLATION MEETING WITH ILLINOIS TOLLWAY STAFF AND ENGINEER.
- 19. ALL CONNECTIONS SHALL BE SEALED WITH TAPE AS PER ILLINOIS TOLLWAY TOWER CREW INSTRUCTIONS.
- 20. ONCE CABLES ARE PULLED, CONTRACTOR TO FILL ADAPTER WITH ELECTRICAL PUTTY AS TO PREVENT ANY CONDENSATION TO SEEP INTO CAMERA HOUSING.
- 21. TRANSITION ETHERNET AND POWER CABLES.
- 22. ALL CONDUITS MUST CONNECT TO BOTTOM OF 12"x12"x6" NEMA 4X ENCLOSURE.

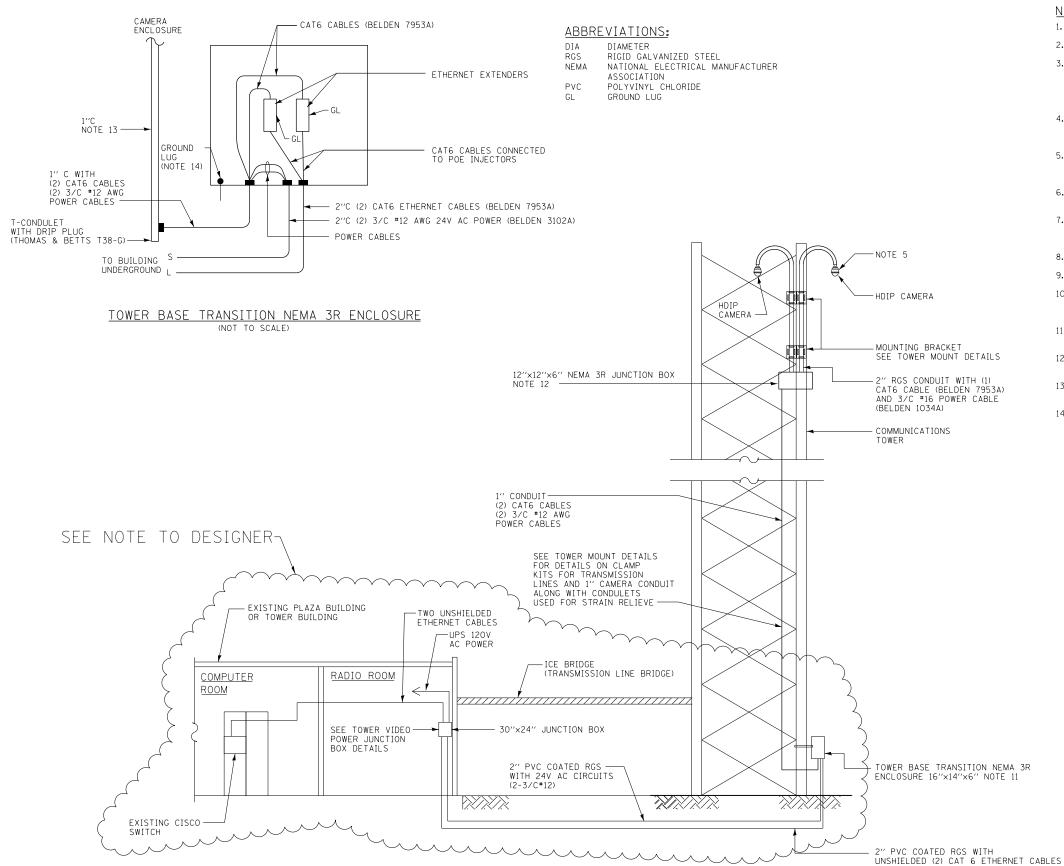
M-ITS-1500



ITS DETAILS TOWER MOUNT CAMERA DETAILS

DATE

1-31-2015



TOWER MOUNT CAMERA ASSEMBLY

(NOT TO SCALE)

NOTES:

- 1. NOT USED.
- 2. CAMERA MUST BE GROUNDED IN HOUSING.
- 3. ALL EQUIPMENT MUST BE CONNECTED TO A COMMON GROUND. CONNECT A #2
  AWG GROUND CABLE FROM THE TOWER TO THE GROUND BAR IN THE COMMUNICATIONS
  ENCLOSURE. USE A #8 AWG FOR THIS GROUND. GROUND CABLES SHALL BE GREEN INSULATED TYPE RHW CONDUCTORS. ANY GROUND CONDUCTORS THAT ARE BURIED SHALL BE SOLID COPPER TINNED.
- 4. CONTRACTOR TO PROVIDE ALL POWER AND GROUND WIRING REQUIRED FOR SYSTEM OPERATION INCLUDING ETHERNET CONNECTIONS FROM THE CAMERAS TO THE CISCO SWITCH.
- CONTRACTOR TO SEAL CONDUIT WITH ELECTRICAL PUTTY AS IT ENTERS THE CAMERA HOUSING. THIS WILL PREVENT ANY MOISTURE ENTERING THE
- 6. ALL CONNECTIONS SHALL BE SEALED WITH TAPE PER ILLINOIS TOLLWAY TOWER CREW
- 7. CONDUIT TO BE RUN UNDERGROUND FOR CAT 6 ETHERNET CABLE AND POWER CABLES CORE HOLE INTO BUILDING TO RUN CONDUIT (DO NOT USE TRANSMISSION LINE PORT
- 8. ALL BOM PARTS ARE TO BE CONSIDERED "OR EQUIVALENT".
- 9. SEE VIDEO POWER JUNCTION BOX DETAIL ON SHEET M-ITS-1255.
- 10. HD IP CAMERA WILL USE A SINGLE CAT6 CABLE TO EACH CAMERA. EACH CAMERA WILL REQUIRE 24V AC POWER. THE 24V AC POWER WILL BE ROUTED THRU 3/C #12 AWG CABLES AND WILL TRANSITION NEAR THE CAMERA TO 3/C #16 AWG CABLE.
- 11. TOWER BASE TRANSITION NEMA 3R ENCLOSURE SHALL BE USED TO HOUSE ETHERNET EXTENDERS AND TRANSITION FROM (2) CONDUITS TO (1) CONDUIT UP TO THE CAMERAS.
- 12. CAMERA TRANSITION NEMA 3R ENCLOSURE IS USED TO TRANSITION TO THE 2 CAMERAS. ENCLOSURE MUST MOUNT TO TOWER AT TWO POINTS.
- 13. LOOP A MINIMUM OF 3FT OF POWER CABLE AND CAT 6 INSIDE TOWER BASE TRANSITION
- 14. CONNECT TOWER BASE ENCLOSURE TO THE TOWER VIA #6 GROUND CABLE CADWELD TO THE TOWER.

## **\$**

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 DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

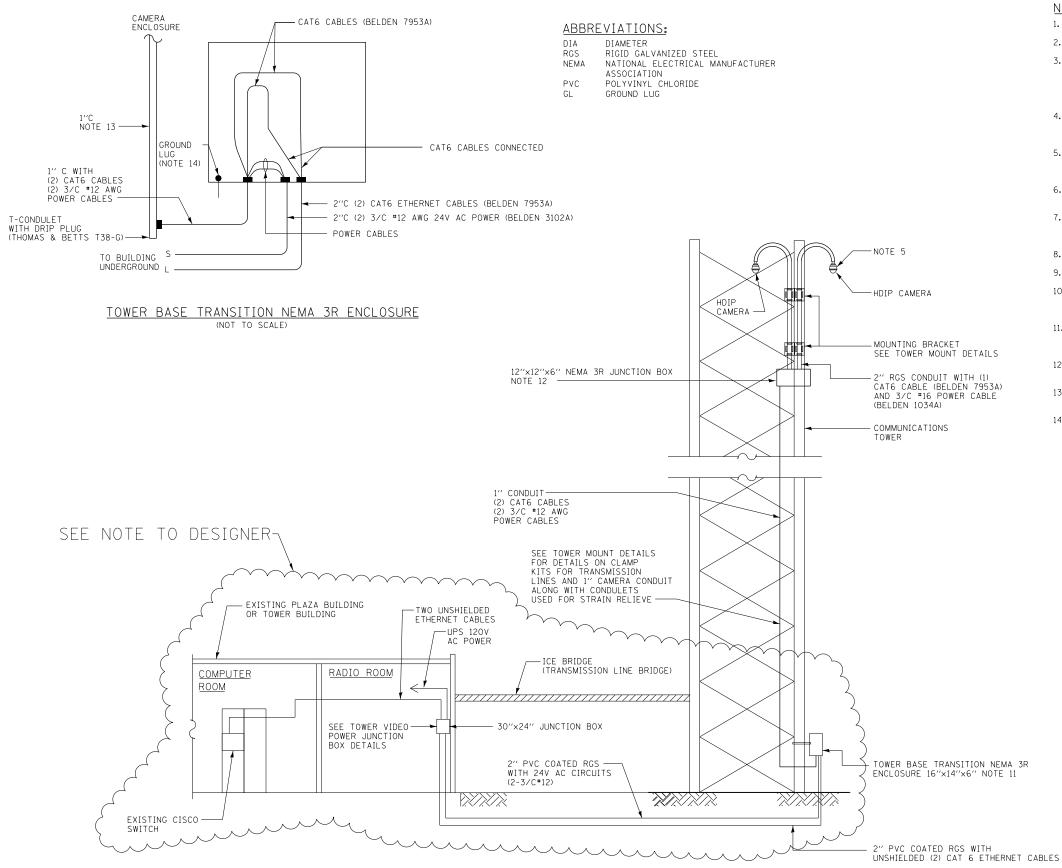
ROUTING OF CONDUIT AND CABLES TO PLAZA/TOWER BUILDING SHALL BE SHOWN FOR EACH INSTALLATION OCCURRENCE DEPICTING ACTUAL CONDITIONS. INSTALLATION AND ROUTING OF EQUIPMENT AND CABLES SHALL BE SHOWN IN PLAN VIEW FORMAT AS WELL AS DESCRIBE THE LOCATION AND POSITION OF WALL MOUNT, RACK MOUNT AND CABLE TRAY POSITIONS WITHIN THE PLAZA/TOWER BUILDING. CISCO SWITCH PORTS TO BE USED SHALL BE IDENTIFIED.

M-ITS-1501



ITS DETAILS TOWER MOUNT CAMERA ASSEMBLY 300' CAT6 OR MORE

DATE 3-1-2016



TOWER MOUNT CAMERA ASSEMBLY

(NOT TO SCALE)

#### NOTES:

- 1. NOT USED.
- 2. CAMERA MUST BE GROUNDED IN HOUSING.
- 3. ALL EQUIPMENT MUST BE CONNECTED TO A COMMON GROUND. CONNECT A #2
  AWG GROUND CABLE FROM THE TOWER TO THE GROUND BAR IN THE COMMUNICATIONS
  ENCLOSURE. USE A #8 AWG FOR THIS GROUND. GROUND CABLES SHALL BE GREEN INSULATED TYPE RHW CONDUCTORS. ANY GROUND CONDUCTORS THAT ARE BURIED SHALL BE SOLID COPPER TINNED.
- 4. CONTRACTOR TO PROVIDE ALL POWER AND GROUND WIRING REQUIRED FOR SYSTEM OPERATION INCLUDING ETHERNET CONNECTIONS FROM THE CAMERAS TO THE CISCO SWITCH.
- CONTRACTOR TO SEAL CONDUIT WITH ELECTRICAL PUTTY AS IT ENTERS THE CAMERA HOUSING. THIS WILL PREVENT ANY MOISTURE ENTERING THE
- 6. ALL CONNECTIONS SHALL BE SEALED WITH TAPE PER ILLINOIS TOLLWAY TOWER CREW
- 7. CONDUIT TO BE RUN UNDERGROUND FOR CAT 6 ETHERNET CABLE AND POWER CABLES CORE HOLE INTO BUILDING TO RUN CONDUIT (DO NOT USE TRANSMISSION LINE PORT
- 8. ALL BOM PARTS ARE TO BE CONSIDERED "OR EQUIVALENT".
- 9. SEE VIDEO POWER JUNCTION BOX DETAIL ON SHEET M-ITS-1256.
- 10. HD IP CAMERA WILL USE A SINGLE CAT6 CABLE TO EACH CAMERA. EACH CAMERA WILL REQUIRE 24V AC POWER. THE 24V AC POWER WILL BE ROUTED THRU 3/C #12 AWG CABLES AND WILL TRANSITION NEAR THE CAMERA TO 3/C #16 AWG CABLE.
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NOTE TO DESIGNER

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M-ITS-1502



ITS DETAILS TOWER MOUNT CAMERA ASSEMBLY 300' CAT6 OR LESS

DATE

3-1-2016