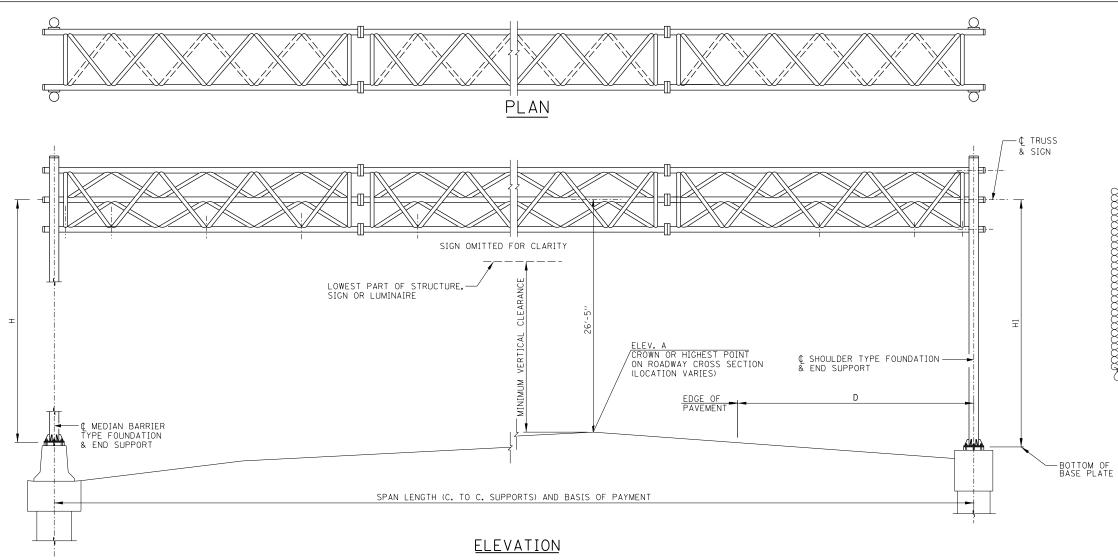
Drawing	Drawings
All	The electronic (pdf) version of the Standard Drawing are now made searchable (text).
All	The electronic (pur) version of the Standard Drawing are now made searchable (text).
M-ESC-205	Erosion Sediment Control (ESC)-Series 200 Sediment Basin Dewatering Device Revised Note 7, removed 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.
SHEET 5	
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	ISiope Drain
M-DRN-601	Revised storm sewer to "Class B, 12".
	Revised storm sewer to "Class B, 12".
M-DRN-601	Revised storm sewer to "Class B, 12".

Tollway Base Sheet Revisions

Drowing	Drawings Modification Summary	Effective: 03-31-2016
Drawing	Modification Summary	Effective: 03-31-2016
	Maintenance of Traffic (I	MOT)-Series 700
M-MOT-700	Temporary Concrete Barrier "Y" Connector Segme	
	Revised Barrier Details Notes.	/ N
	Changed barrier edges chamfered from 1/2" to 1" on all edg	es (optional).
	Overhead Sign (OHS	S)-Series 720
M-OHS-720	Overhead Sign Structure Span Type Summary and	
	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included	in Foundation For Overhead Sign Structure.
	Overhead Sign Structure Contilover Type Summer	, and Tatal Bill of Matarial
M-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.
M-OHS-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	
	Clarified Concrete Structures is for Single Face Barrier	and included in Summary Table and Total Bill of Ma
M-0HS-723	Overhead Sign Structure Exit Monotube Type (Stee	al) Mainline Summary and Total Bill of Material
M-0110-723	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	nmary and Total Bill of Material
	Added Protective Coat (SQ YD) to Summary Table	
	Clarified Class SI and Class DS Concrete are included	
	Removed Truss Extension for Mounting Walkway deta	
	Added "L" column and removed TGL and TGL1 from th	
M-0HS-725	Overhead Sign Structure Entrance Monotube Type	(Steel) AET Ramn Summary and Total Bill of Mar
0110-723	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	
	Ŭ	·
M-OHS-726	Overhead Sign Structure Exit Monotube Type (Stee	el) 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.
	Overhead Sign Structure Exit Monetube Type (Ster	N) Cash IBO Bamp Summary and Total Bill of Ma
M-0H3-727	Overhead Sign Structure Exit Monotube Type (Stee Added Protective Coat (SQ YD) to Summary Table	e) Cash-IPO Ramp Summary and Total Bill of Ma
	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-728	Overhead Sign Structure Span Type (Steel) Summa	ary 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.
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M OUD TOO	Overhead Gine Official ITO Organize E	Cinala Chan Churchurg Dataile
	Overhead Sign Structure ITS Gantry Frame (Steel)	
Sheet 1	Revised Material Specification Table to specify ASTM A500	Gr C & B for Frame & Mounting Beam HSS, respectively.
Sheet 1 Sheet 4	Revised Material Specification Table to specify ASTM A500 Removed Note 6, referring to ASTM requirements of HSS m	Gr C & B for Frame & Mounting Beam HSS, respectively. embers.
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Sheet 1 Sheet 4 Sheet 5 Sheet 5 Sheet 6 Sheet 6	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.	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field.
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Sheet 1 Sheet 4 Sheet 5 Sheet 5 Sheet 5 Sheet 6 Sheet 7 M-OHS-730	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)	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details
Sheet 1 Sheet 4 Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7 M-OHS-730 Sheet 1	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	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively.
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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 7 Sheet 7 Sheet 8	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 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	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. orotective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation.
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 7 Sheet 7 Sheet 8 M-ITS-1000	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 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 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 AS Added 30A-2P NEMA 4X DISC MTD ON SUPPORT DET/	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. Applied to shoulder foundation.
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 7 Sheet 7 Sheet 8 M-ITS-1000	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 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 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	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. Applied to shoulder foundation. Series 1000 SEMBLY AIL.
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 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000	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 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 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 DET/ GENERAL NOTES POLE MOUNTED ITS ELEMENT ASSE Added Note 16 regarding disconnect switch usage.	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. Applied to shoulder foundation.
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 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000	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 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 DET/ GENERAL NOTES POLE MOUNTED ITS ELEMENT ASSE Added Note 16 regarding disconnect switch usage. ITS STANDARD FOUNDATION: New Sheet	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. orotective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil Conditions are not met in the field. applied to Schedule.
Sheet 1 Sheet 5 Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7 M-OHS-730 Sheet 1 Sheet 1 Sheet 1 Sheet 4 Sheet 6 Sheet 6 Sheet 6 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1001	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 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 (Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. orotective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil Conditions are not met in the field. applied to Schedule.
Sheet 1 Sheet 5 Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 7 M-OHS-730 Sheet 1 Sheet 1 Sheet 1 Sheet 4 Sheet 6 Sheet 6 Sheet 6 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1001 M-ITS-1002	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 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 DET/ GENERAL NOTES POLE MOUNTED ITS ELEMENT ASS Added Note 16 regarding disconnect switch usage. ITS STANDARD FOUNDATION: New Sheet Dynamic Message Sign (I Revised conduit call-outs	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. orotective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil Conditions Structure Details TS) - Series 1100
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 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1001 M-ITS-1100 M-ITS-1103	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 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 Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil Conditions Structure Details Tries 1000 SEMBLY AIL. TMBLY IL. Removed pad mounted transformer.
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 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1001 M-ITS-1100 M-ITS-1103	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 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 DET/ GENERAL NOTES POLE MOUNTED ITS ELEMENT ASS 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 Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. sorotective coat quantity in Median Foundation Schedule. Eries 1000 SEMBLY AIL. TMBLY IL. Removed pad mounted transformer. IL. Revised Note 2 to eliminate 120/208V and pad mount.
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 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1001 M-ITS-1103 M-ITS-1104	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 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 DET/ GENERAL NOTES POLE MOUNTED ITS ELEMENT ASS 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 Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. sorotective coat quantity in Median Foundation Schedule. Eries 1000 SEMBLY AIL. TMBLY IL. Removed pad mounted transformer. IL. Revised Note 2 to eliminate 120/208V and pad mount.
Sheet 1 Sheet 5 Sheet 5 Sheet 5 Sheet 6 Sheet 6 Sheet 6 Sheet 7 M-OHS-730 Sheet 1 Sheet 1 Sheet 4 Sheet 6 Sheet 6 Sheet 6 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 7 Sheet 8 M-ITS-1000 M-ITS-1001 M-ITS-1100 M-ITS-1103 M-ITS-1103 M-ITS-1104	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 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 DET/ 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 Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA Revised 30A-2P NEMA 4X DISC MTD ON SUPPORT DETA Cabinet Wiring-Se	Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. protective coat quantity in Median Foundation Schedule. Two-Span Structure Details Gr C & B for Frame & Mounting Beam HSS, respectively. embers. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. soil conditions are not met in the field. applied to shoulder foundation. sorotective coat quantity in Median Foundation Schedule. Eries 1000 SEMBLY AIL. TMBLY IL. Removed pad mounted transformer. IL. Revised Note 2 to eliminate 120/208V and pad mount.
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	eet Drawings
Drawii	ng Modification Summary Effective: 03-31-2016
	Weigh-In-Motion - Series 1600
M-WIM-1	600 WEIGH-IN-MOTION CABINET AND FOUNDATION DETAILS
	601 WEIGH-IN-MOTION IP CAMERA DETAILS
	602 WEIGH-IN-MOTION LOOP DETECTOR DETAILS 603 WEIGH-IN-MOTION DETECTOR LOOP AND QUARTZ SENSOR DETAIL
	604 INSTALLATION DETAIL DETECTOR HOUSING & DETECTOR HOUSING ADAPTER
	605 WEIGH-IN-MOTION DETECTOR HOUSING DETAIL
	Flashing Sign Beacon - Series 1700
	700 FLASHING SIGN BEACON INSTALLATION BREAKAWAY ELECTRICAL DETAIL 701 FLASHING SIGN BEACON INSTALLATION WIRING DIAGRAM
	Conduit Details at Integral Abutment-Series 1900
M-ITS-1	200 CONDUIT DETAILS AT INTEGRAL ABUTMENT BRIDGE STANDARD SLOPE WALL
	Business Systems (BUS)- Series 2500
	500 CABLE CONDUIT SCHEDULE AND GENERAL NOTES
	501 LEGEND SYMBOL LIST, ABBREVIATIONS AND EQUIPMENT SCHEDULES 502 SINGLE LINE DIAGRAM AND UTILITY POWER CABLE/CONDUIT SCHEDULE
	503 CONTROL BUILDING LIGHTING PLAN AND MISCELLANEOUS DETAILS - MAIN PLAZA
M-BUS-2	504 CONTROL BUILDING LIGHTING PLAN AND MISCELLANEOUS DETAILS - REMOTE PLAZA
	505 CONTROL BUILDING GROUNDING DETAILS - MAIN PLAZA 506 CONTROL BUILDING GROUNDING DETAILS - REMOTE PLAZA
	506 CONTROL BUILDING GROUNDING DETAILS - REMOTE PLAZA 507 GROUNDING SCHEMATIC
M-BUS-2	508 CONTROL BUILDING MISCELLANEOUS DETAILS
	509 UPS SINGLE LINE AND WIRING DIAGRAM
	510 MISCELLANEOUS SCHEMATIC DIAGRAMS 511 VIDEO POWER JUNCTION BOX DETAIL - MAIN PLAZA
	512 VIDEO POWER JUNCTION BOX DETAIL - REMOTE PLAZA
	513 VIDEO WATCHDOG CAMERA DETAILS
	514 RAMP PLAZA MONOTUBE DETAILS ACM AND IPO LANES 515 LOOP JUNCTION BOX DETAIL
	516 CONTROL BUILDING LIGHTING AND RECEPTACLE PLAN - MAIN PLAZA
	517 CONTROL BUILDING LIGHTING AND RECEPTACLE PLAN -REMOTE PLAZA
	518 MISCELLANEOUS CROSS SECTION DETAILS
	519 COMED TRANSFORMER PAD DETAIL 520 ELECTRICAL SITE PLAN - ACM AND IPO LANES
	521 UNDERGROUND ELECTRICAL PLAN - ACM AND IPO LANES - MAIN PLAZA
	522 PLAZA I-PASS PLANS - ACM AND IPO LANES
	523 UNDERGROUND ELECTRICAL PLAN - ACM AND IPO LANES - REMOTE PLAZA 524 AUTOMATIC LANE ISLAND PLAN AND DETAILS 12 FOOT WIDE LANE
	525 IPASS ONLY (IPO) LANE ISLAND PLAN AND DETAILS 12 FOOT WIDE LANE
	526 TOLL EQUIPMENT WIRING DIAGRAM - ACM AND IPO LANES
	527 LOOP AND TREADLE INSTALLATION DETAILS - ACM AND IPO LANES 528 CONTROL BUILDING TSIC - ACM AND IPO LANES - MAIN PLAZA
	529 CONTROL BUILDING TSIC - ACM AND IPO LANES - REMOTE PLAZA
	530 TSIC TERMINAL BLOCK LAYOUT - ACM AND IPO LANES
	531 CONTROL BUILDING EQUIPMENT LAYOUT - ACM AND IPO LANES - MAIN PLAZA 532 CONTROL BUILDING EQUIPMENT LAYOUT - ACM AND IPO LANES - REMOTE PLAZA
	533 CONTROL BUILDING R3 RACK - MAIN PLAZA
M-BUS-2	534 CONTROL BUILDING R3 RACK - REMOTE PLAZA
	MISCELLANEOUS DETAILS -ACM AND IPO LANES 536 PANELBOARD SCHEDULES FOR TP1 AND TP2 - ACM AND IPO LANES
	536 PANELBOARD SCHEDULES FOR TPT AND TP2 - ACM AND TPO LANES 537 PANELBOARD SCHEDULES FOR MDP AND UPS UNITS - ACM AND IPO LANES
M-BUS-2	538 FIBER INTERCONNECTIONS BETWEEN MAIN AND REMOTE PLAZAS - ACM AND IPO LANES
	539 PLAZA LANE CONTROL SIGNAL - ACM AND IPO LANES
	540 TRAFFIC LIGHT DETAILS - ACM LANES 541 TRAFFIC LIGHT DETAILS - IPO LANES
	542 ELECTRICAL SITE PLAN AET LANES
	543 UNDERGROUND CONDUIT PLAN - MAIN PLAZA
	544 UNDERGROUND CONDUIT PLAN - MAIN PLAZA PLAN - REMOTE PLAZA 545 CONTROL BUILDING EQUIPMENT LAYOUT - REMOTE PLAZA
	546 CONTROL BUILDING EQUIPMENT LAYOUT - MAIN PLAZA
M-BUS-2	547 CONTROL BUILDING TSIC - MAIN AND REMOTE PLAZAS - AET LANES
	548 TSIC TERMINAL BLOCK LAYOUT - ACM AND IPO LANES REMOTE PLAZAS - AET LANES
	549 PANELBOARD SCHEDULES - MAIN PLAZA AET LANES 550 PANELBOARD SCHEDULES - REMOTE PLAZA AET LANES
	551 WIRING DIAGRAM - AET 1-LANE LAYOUT
	552 WIRING DIAGRAM - AET 3-LANE LAYOUT
	553 LOOP PLAN - AET 1-LANE LAYOUT 554 LOOP PLAN - AET 3-LANE LAYOUT
	555 VES WASH SYSTEM ENCLOSURE DETAIL
M-BUS-2	556 VES WASH SYSTEM PANEL DETAIL
	557 VES WASH SYSTEM FLOW DIAGRAM AND MECHANICAL DETAIL
	558 VES WASH SYSTEM SUGGESTED CONDUIT ROUTING 559 VES WASH SYSTEM MISCELLANEOUS POWER WIRING DIAGRAM
	560 VES WASH SYSTEM CONTROL SWITCH SCHEMATIC

New Sheet



									SUMMA	RY			
STRUCTURE	STATION	DESIGN TRUSS	C. TO C. SUPPORTS	ELEV. A	MINIMUM VERTICAL	D		MEDIAN BARRIER END SUPPORT		SHOULDER END SUPPORT	HEIGHT OF	TOTAL SIGN AREA	FOUNDATION F SIGN ST
NUMBER	STATION	TYPE	SUPPORTS		CLEARANCE		н	PIPE COLUMN (NOMINAL DIAMETER) (INCH)	H1	PIPE COLUMN (NOMINAL DIAMETER) (INCH)	TALLEST SIGN	(SQ FT)	CLASS SI CONCRETE (CU YD)

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UNIT	TOTAL
	OVERHEAD SIGN STRUCTURE, SPAN TYPE (ALUMINUM)	FOOT	
	OVERHEAD SIGN STRUCTURE, SPAN TYPE (ALUMINUM)	FOOT	
	OVERHEAD SIGN STRUCTURE, SPAN TYPE (ALUMINUM)	FOOT	
	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, SPAN TYPE	CU YD	
	REINFORCEMENT BARS, EPOXY COATED	POUND	
	PROTECTIVE COAT	SQ YD	

TOTAL

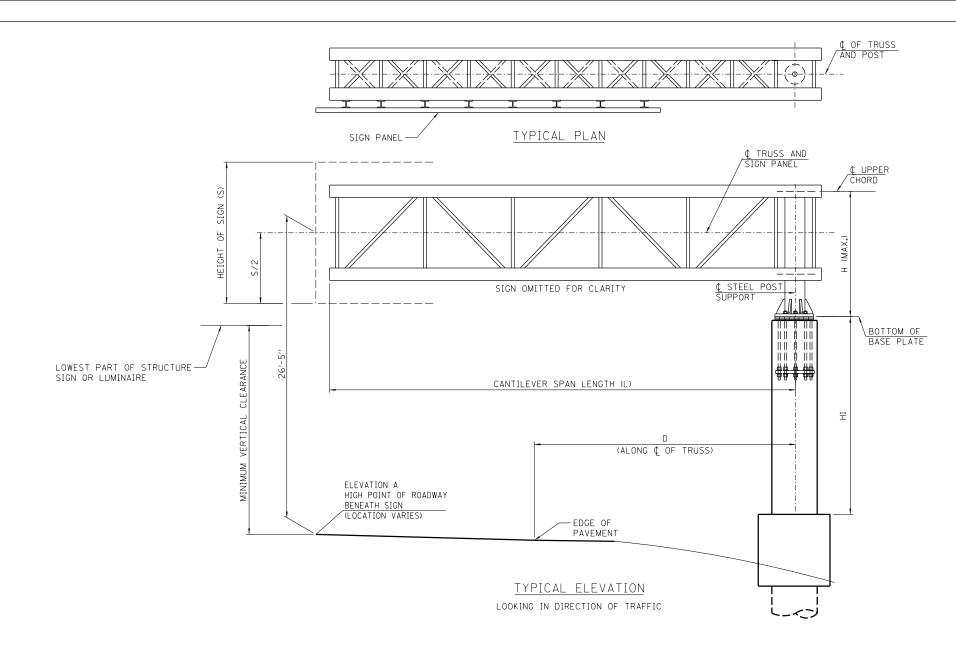
\mathcal{A}	******	222225	8882			XXXXXXXXX	
\bigotimes	Ν	OTE	ΤO	DESIGN	ER		×
	THIS BASE SHEET SHOWS DRAWING. IT REQUIRES (A CONTRACT. MICROSTATI AVAILABLE ON THE ILLIN RESPONSIBILITY OF THE INSERTION INTO A CONTR PRIOR TO INSERTION OF	COMPLETI ON FILES DIS TOLL DESIGN C ACT. ALL	ON BY S AND WAY W OF THI: . ''NOT	THE DESIGNE THE "CADD S EBSITE. THE S SHEET UPON E TO DESIGNE	ER PRIOR TO INS TANDARDS MANUA DESIGNER SHALL N ITS COMPLETIC ER'' BOXES SHALL	ERTION INTO AL'' ARE ACCEPT THE NN AND	
\leq	SITE GROUNDING ELECTRO BASE SHEET M-ITS-1101)	DE SYST	ЕМ ТО	BE PROVIDED) AS DETAILED.	REFERENCE	X
	SEE ILLINOIS TOLLWAY S CLEARANCE REQUIREMENTS		e desi	GN MANUAL F	OR MINIMUM VER		
XX		XXXXX	XXXX				X)°
-							
E (T)	(P.)						
ON FO STR	OR OVERHEAD UCTURE CLASS DS CONCRETE			ENT BARS, Coated ND)	PROTECTIVE COAT (SQ. YD.)		
	(CU YD)						

M-0HS-720



3-31-2016

NOTE: WORK THIS SHEET WITH STANDARD F1



						SL	JMMARY						
STRUCTURE	STATION	DESIGN TRUSS	ELEV. A		D	н	H1	HEIGHT OF	TOTAL SIGN AREA	FOUNDATION F SIGN STR	OR OVERHEAD RUCTURE	REINFORCEMENT BARS, EPOXY COATED	
NUMBER	STATION	TYPE	ELEV. A	VERTICAL CLEARANCE	U			TALLEST SIGN	(SQ FT)	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	(POUND)	
													-
													\perp
													_
													+
			 										+
			 										_
			 										+
			 										+

TOTAL BILL OF MATERIAL

PAY ITEM	DESCRIPTION	UNIT	TOTAL
	OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE (STEEL)	FOOT	
	OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE (STEEL)	FOOT	
	OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE (STEEL)	FOOT	
	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE	CU YD	
	REINFORCEMENT BARS, EPOXY COATED	POUND	
	PROTECTIVE COAT	SQ YD	

TOTAL

	8
NOTE TO DESIGNER	8
THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT 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 PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.	
SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1105)	8
INSTALLATIONS NOT WITHIN DIMENSIONAL LIMITS SHOWN REQUIRE SPECIAL ANALYSIS FOR ALL COMPONENTS.	
SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL	

PROTECTIVE COAT (SQ. YD.)

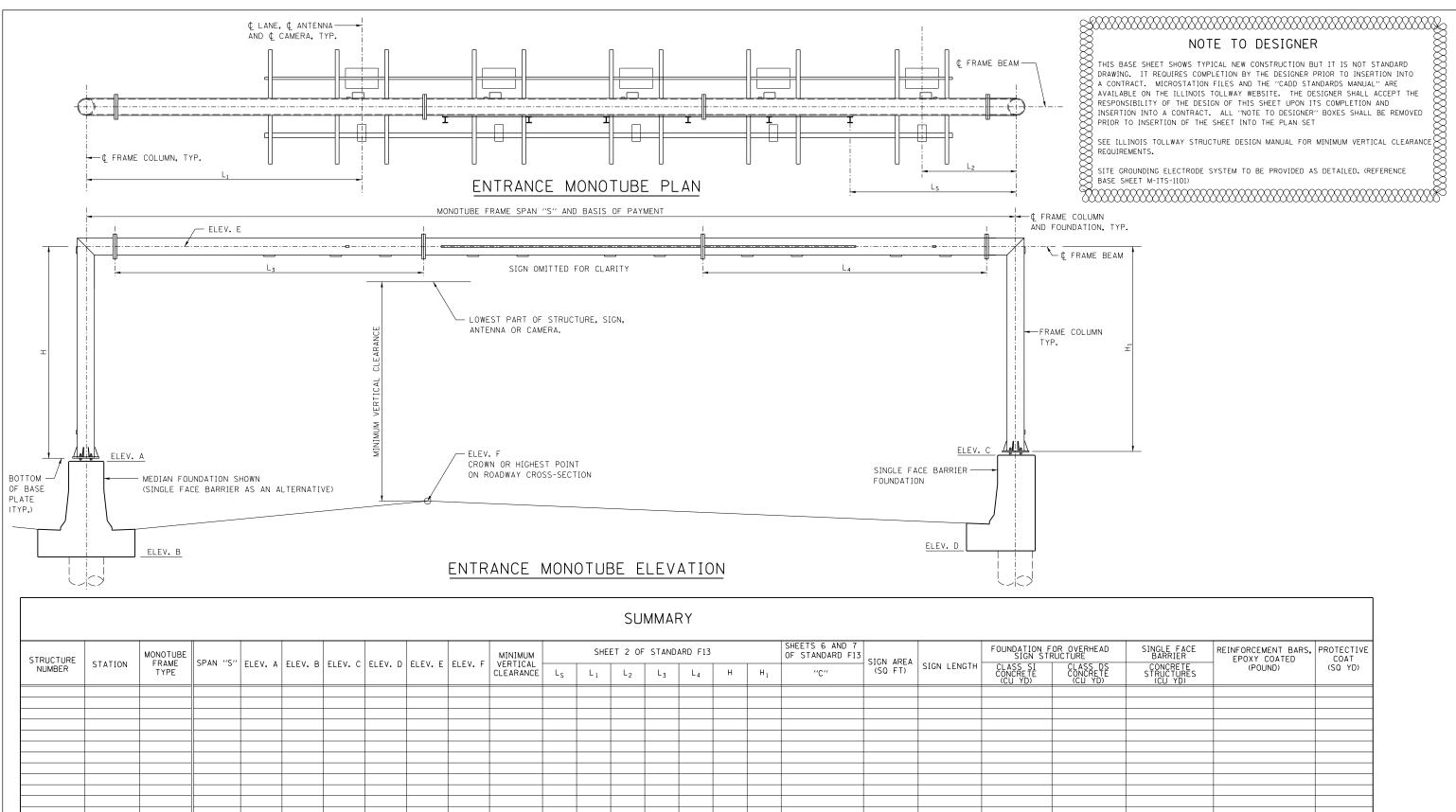
NOTE: WORK THIS SHEET WITH STANDARD F4

3-31-2016

M-OHS-721

Illinois Tollway

OVERHEAD SIGN STRUCTURE CANTILEVER TYPE SUMMARY AND TOTAL BILL OF MATERIAL DATE



TOTAL BILL OF MATERIAL PAY ITEM DESCRIPTION UNIT TOTAL OVERHEAD SIGN STRUCTURE, MAINLINE ENTRANCE MONOTUBE TYPE (STEEL) FOOT OVERHEAD SIGN STRUCTURE, MAINLINE ENTRANCE MONOTUBE TYPE (STEEL) FOOT OVERHEAD SIGN STRUCTURE, MAINLINE ENTRANCE MONOTUBE TYPE (STEEL) FOOT CU YD CONCRETE STRUCTURES FOUNDATION FOR OVERHEAD SIGN STRUCTURE, MAINLINE MONOTUBE TYPE CU YD REINFORCEMENT BARS, EPOXY COATED POUND PROTECTIVE COAT SQ YD

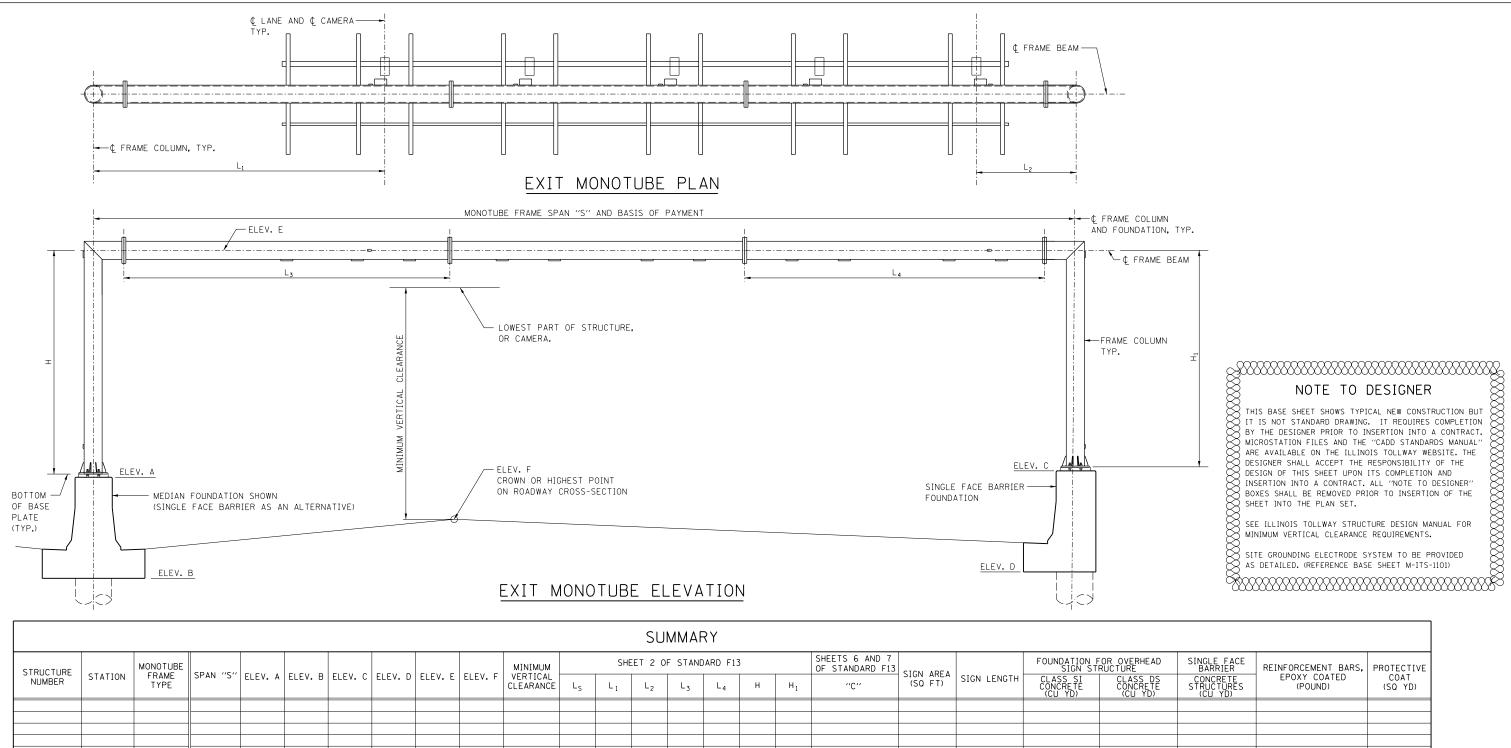
TOTAL

OVERHEAD TURE CLASS DS CONCRETE (CU YD) SINGLE FACE BARRIER REINFORCEMENT BARS. (POUND) PROTECTIVE COAT (SO YD) CLASS DS CONCRETE (CU YD) CONCRETE (POUND) COAT CONCRETE (CU YD) I I I I I			
	TURE	EPOXY COATED	COAT
Image: sector	CONCRETE (CU YD)	(POUND)	
Image: sector			
Image: second			

M-0HS-722



OVERHEAD SIGN STRUCTURE ENTRANCE MONOTUBE TYPE (STEEL) MAINLINE SUMMARY AND TOTAL BILL OF MATERIAL DATE 3-31-2016



	TOTAL BILL OF MATERIAL						
PAY ITEM	DESCRIPTION	UNIT	TOTAL				
	OVERHEAD SIGN STRUCTURE, MAINLINE EXIT MONOTUBE TYPE (STEEL)	FOOT					
	OVERHEAD SIGN STRUCTURE, MAINLINE EXIT MONOTUBE TYPE (STEEL)	FOOT					
	OVERHEAD SIGN STRUCTURE, MAINLINE EXIT MONOTUBE TYPE (STEEL)	FOOT					
	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, MAINLINE MONOTUBE TYPE	CU YD					
	CONCRETE STRUCTURES	CU YD					
	REINFORCEMENT BARS, EPOXY COATED POUND						
	PROTECTIVE COAT	SQ YD					

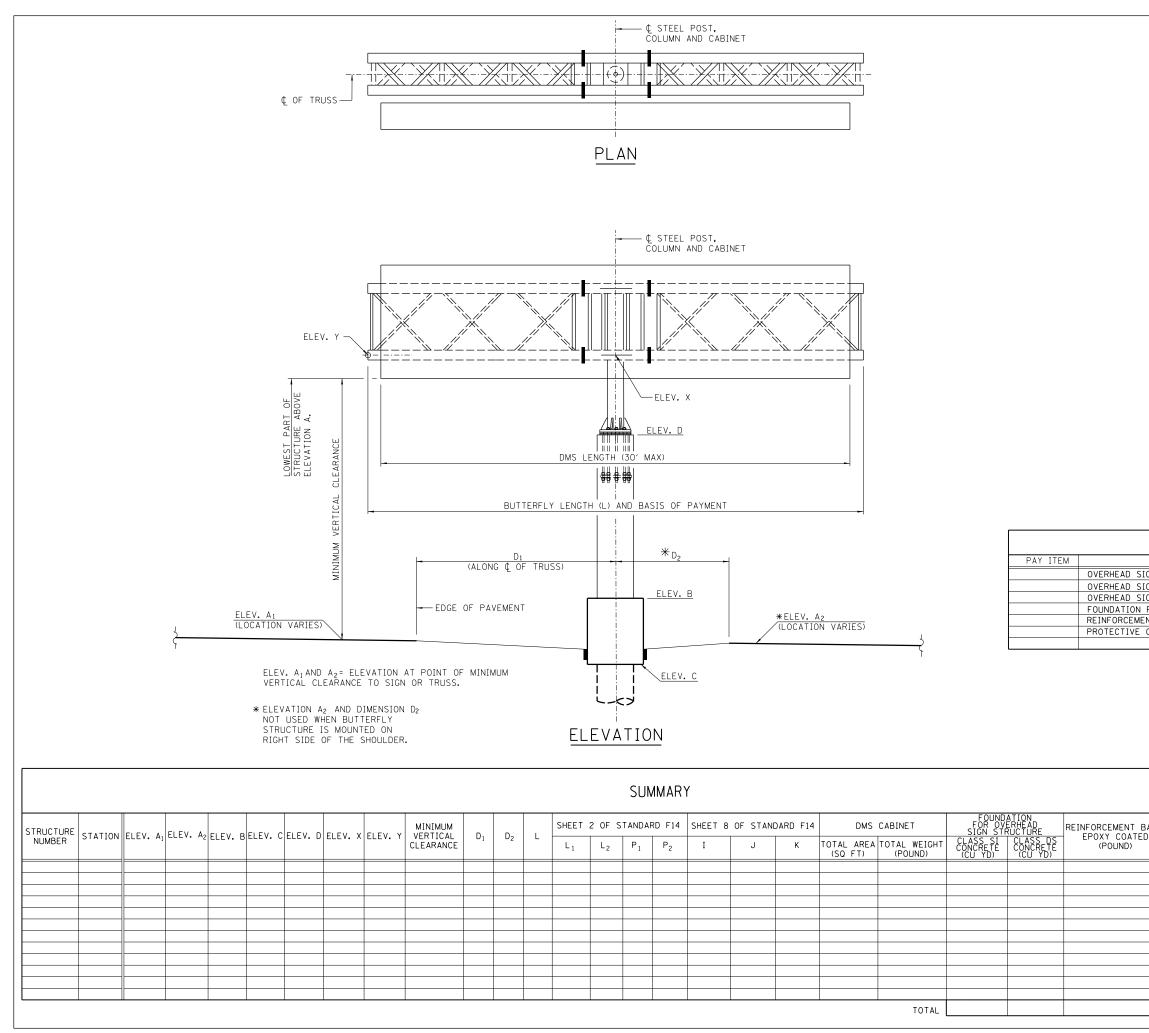
TOTAL

OVERHEAD URE CLASS_DS CONCRETE (CU_YD)	SINGLE FACE BARRIER CONCRETE STRUCTURES (CU YD)	REINFORCEMENT BARS, EPOXY COATED (POUND)	PROTECTIVE COAT (SQ YD)

M-0HS-723



OVERHEAD SIGN STRUCTURE EXIT MONOTUBE TYPE (STEEL) MAINLINE SUMMARY AND TOTAL BILL OF MATERIAL DATE 3-31-2016

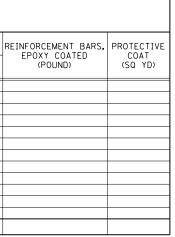


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X	NOTE TO DESIGNER	Z.
	THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE 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 PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET	XXXXXXXXXX
	SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS.	
\otimes	SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE	X.

BASE SHEET M-ITS-1105)

TOTAL BILL OF MATERIAL		
DESCRIPTION	UNIT	TOTAL
GN STRUCTURE, BUTTERFLY TYPE (STEEL)	FOOT	
IGN STRUCTURE, BUTTERFLY TYPE (STEEL)	FOOT	
IGN STRUCTURE, BUTTERFLY TYPE (STEEL)	FOOT	
FOR OVERHEAD SIGN STRUCTURE, BUTTERFLY TYPE	CU YD	
INT BARS, EPOXY COATED	POUND	
COAT	SQ YD	

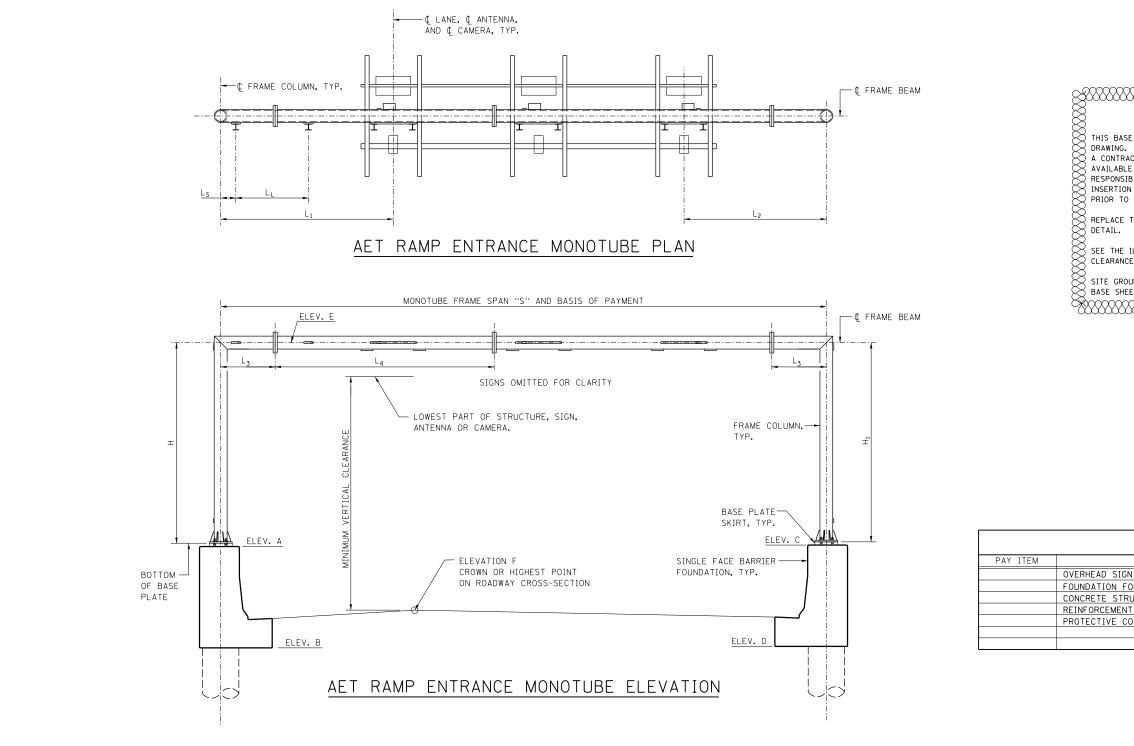
NOTE: WORK THIS SHEET WITH STANDARD F14



M-0HS-724

Illinois Tollway

OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE (STEEL) SUMMARY AND TOTAL BILL OF MATERIAL DATE 3-31-2016

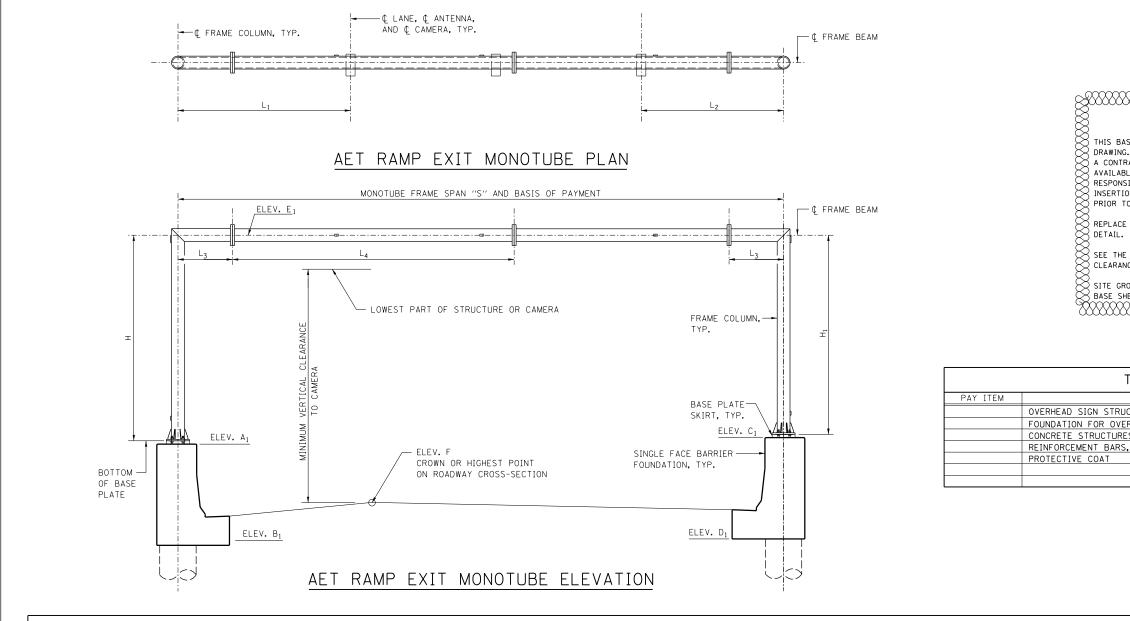


	SUMMARY																					
STRUCTURE		SPAN "S"							MINIMUM			SHEET	2 OF 1	STANDAR	D F15			SHEET 6 OF STANDARD F15	FOUNDATION SIGN S	FOR OVERHEAD	SINGLE FACE BARRIER	REINF
STRUCTURE NUMBER	STATION	SPAN ''S'' (FT.)	ELEV. A	ELEV. E	ELEV.	CELEV. C	ELEV. E	ELEV. I	VERTICAL CLEARANCE	Ls	LL	L ₁	L ₂	L ₃	L ₄	н	H ₁	"C"	CLASS SI CONCRETE (CU. YD.)	CLASS_DS CONCRETE (CU. YD.)	CONCRETE STRUCTURES (CU. YD.)	E
																						+
					-	-																
		-																				+
		-																				+
																		TOTAL				

\prec	NOTE			
3	NOTE	TO DES	IGNER	
DRAWING. IT A CONTRACT. AVAILABLE ON RESPONSIBILIT INSERTION INT	REQUIRES COMPLET MICROSTATION FILE THE ILLINOIS TOLL Y OF THE DESIGN (ION BY THE DE ES AND THE "C WAY WEBSITE. DF THIS SHEET LL "NOTE TO D	CTION BUT IT IS N SIGNER PRIOR TO I CADD STANDARDS MA THE DESIGNER SH UPON ITS COMPLET DESIGNER" BOXES SH PLAN SET	NSERTION INTO NUAL" ARE ALL ACCEPT THE FION AND
REPLACE THIS	"NOTE TO DESIGNE	R" WITH SITE	GROUNDING ELECTRO	DDE SYSTEM
SEE THE ILLIN	OIS TOLLWAY STRU	CTURE DESIGN	MANUAL FOR MINIM	UM VERTICAL
)	NG ELECTRODE SYST -ITS-1101)	EM TO BE PRO	VIDED AS DETAILED	. (REFERENCE

TOTAL BILL OF MATERIAL		
DESCRIPTION	UNIT	TOTAL
N STRUCTURE, AET RAMP ENTRANCE MONOTUBE TYPE (STEEL)	FOOT	
OR OVERHEAD SIGN STRUCTURE, RAMP MONOTUBE TYPE	CU. YD.	
RUCTURES	CU. YD.	
T BARS, EPOXY COATED	POUND	
DAT	SQ. YD.	

NFORCEMENT BARS, EPOXY COATED (POUNDS)	PROTECTIVE COAT (SQ. YD.)	NOTE: work this sheet with standard f15
		M-0HS-725
		Illinois Tollway
		OVERHEAD SIGN STRUCTURE ENTRANCE MONOTUBE TYPE (STEEL) AET RAMP SUMMARY AND TOTAL BILL OF MATERIAL
		3-31-2016



	SUMMARY																			
STRUCTURE		SPAN ''S''							MINIMUM		SHEET	3 OF	STANDA	RD F15		SHEET 6 OF STANDARD F15	FOUNDATION SIGN ST	FOR OVERHEAD RUCTURE	SINGLE FACE BARRIER	REINF
NUMBER	STATION	(FT.)	ELEV. A	ELEV. B	1 ELEV. C	ELEV. D	ELEV. E	ELEV. F	VERTICAL CLEARANCE	L ₁	L ₂	L ₃	L4	н	H ₁	"С"	CLASS SI CONCRETE (CU. YD.)	CLASS DS CONCRETE (CU. YD.)	CONCRETE STRUCTURES (CU. YD.)	E
		_																		
		_																		
		_																		
		_																		
		_			_															-
		_																		
		_																		
		_																		
																TOTAL				

NOTE TO DESIGNER	
ASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT STANDARD G. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO RACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE BLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE SIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND ON INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED TO INSERTION OF THE SHEET INTO THE PLAN SET	
E THIS "NOTE TO DESIGNER" WITH SITE GROUNDING ELECTRODE SYSTEM	
E ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL	
ROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE	

TOTAL BILL OF MATERIAL		
DESCRIPTION	UNIT	TOTAL
UCTURE, AET RAMP EXIT MONOTUBE TYPE (STEEL)	FOOT	
ERHEAD SIGN STRUCTURE, RAMP MONOTUBE TYPE	CU. YD.	
ES	CU. YD.	
S, EPOXY COATED	POUND	
	SQ. YD.	

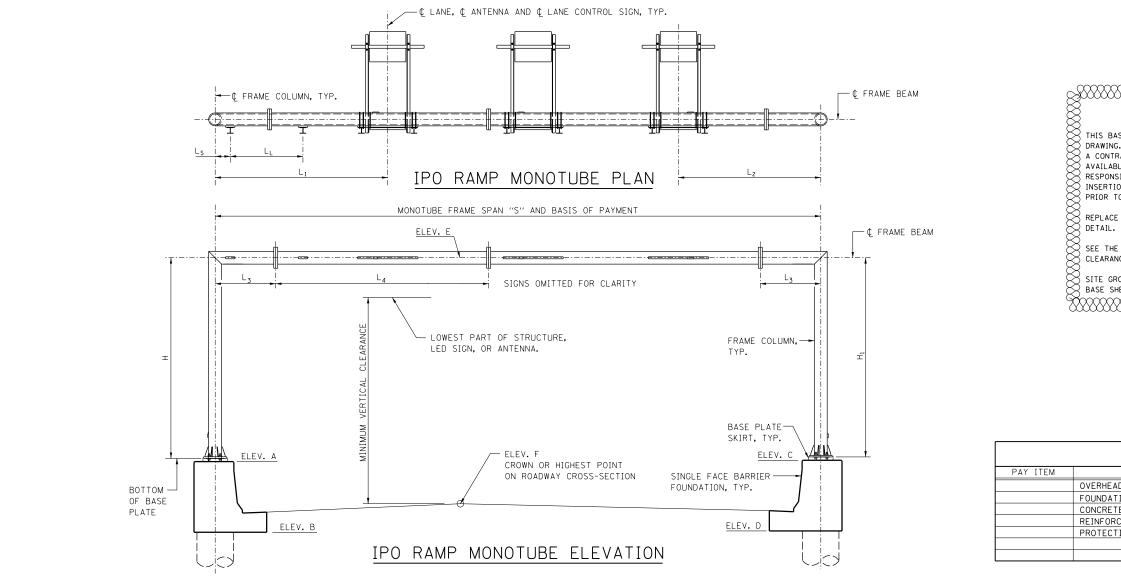
INFORCEMENT BARS, EPOXY COATED (POUNDS)	PROTECTIVE COAT (SQ. YD.)

NOTE: WORK THIS SHEET WITH STANDARD F15 M-0HS-726

Illinois Tollway

OVERHEAD SIGN STRUCTURE EXIT MONOTUBE TYPE (STEEL) AET RAMP SUMMARY AND TOTAL BILL OF MATERIAL DATE

3-31-2016



											SL	JMMA	λRΥ								
STRUCTURE		SPAN "S" (FT.)						MINIMUM			SHEET	2 OF S	TANDARD	F16			SHEET 6 OF STANDARD F16	FOUNDATION F SIGN ST	FOR OVERHEAD RUCTURE	SINGLE FACE BARRIER	RE
STRUCTURE NUMBER	STATION	(FT.)	ELEV. A ELEV	. B ELEV. (ELEV. D	ELEV. E	ELEV. F	MINIMUM VERTICAL CLEARANCE	Ls	LL	L ₁	L ₂	L ₃	L ₄	н	H ₁	"с"	CLASS SI CONCRETE (CU. YD.)	CLASS DS CONCRETE (CU. YD.)	CONCRETE STRUCTURES (CU. YD.)	
																					_
		-																			-
						-									-						+
																					-
		-			_	+									+						+
																	TOTAL				

NOTE: work this sheet with standard fig

NOTE TO DESIGNER WITH SITE GROUNDING ELECTRODE SYSTEM DETAIL. SEE THE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE.

TOTAL BILL OF MATERIAL		
DESCRIPTION	UNIT	TOTAL
AD SIGN STRUCTURE, CASH-IPO RAMP MONOTUBE TYPE (STEEL)	FOOT	
TION FOR OVERHEAD SIGN STRUCTURE, RAMP MONOTUBE TYPE	CU. YD.	
TE STRUCTURES	CU. YD.	
CEMENT BARS, EPOXY COATED	POUND	
TIVE COAT	SQ. YD.	

REINFORCEMENT BARS, EPOXY COATED (POUNDS)	PROTECTIVE COAT (SQ. YD.)

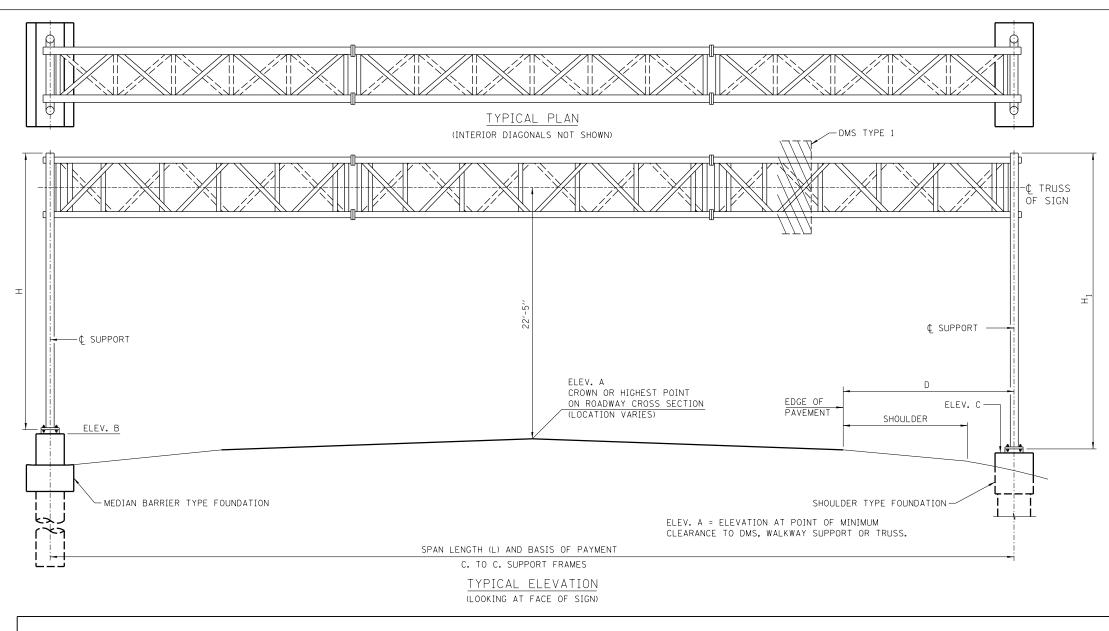
M-0HS-727

Tollway

OVERHEAD SIGN STRUCTURE MONOTUBE TYPE (STEEL) CASH-IPO RAMP

SUMMARY AND TOTAL

3-31-2016 BILL OF MATERIAL



													SUMMAR	ſ								
		DECION	CDAN					FOUNDAT	ION TYPE				SHEET 5 OF STANDARD F15		SHEET STANDA	10 OF ARD F15			11 OF ARD F15	DMS	TYPE 1	FOL
STRUCTURE NUMBER	STATION	DESIGN TRUSS TYPE	SPAN LENGTH (FT)	ELEV. A	ELEV. B	ELEV. C	MINIMUM VERTICAL CLEARANCE	LT.	RT.	D	н	H ₁	А	a	ь	с	Ls	В	с	TOTAL AREA (SQ. FT.)	TOTAL WEIGHT (LBS.)	LJ 100 100
																		-				
																		-				

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UNIT	TOTAL
	OVERHEAD SIGN STRUCTURE - SPAN TYPE (STEEL)	FOOT	
	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, SPAN TYPE	CU. YD.	
	REINFORCEMENT BARS, EPOXY COATED	POUND	
	PROTECTIVE COAT	SQ. YD.	

TOTAL

NOTE TO DESIGNER THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT 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 PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET SEE THE ILLINOIS TOLLWAY STRUCTURAL DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE. SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1101)

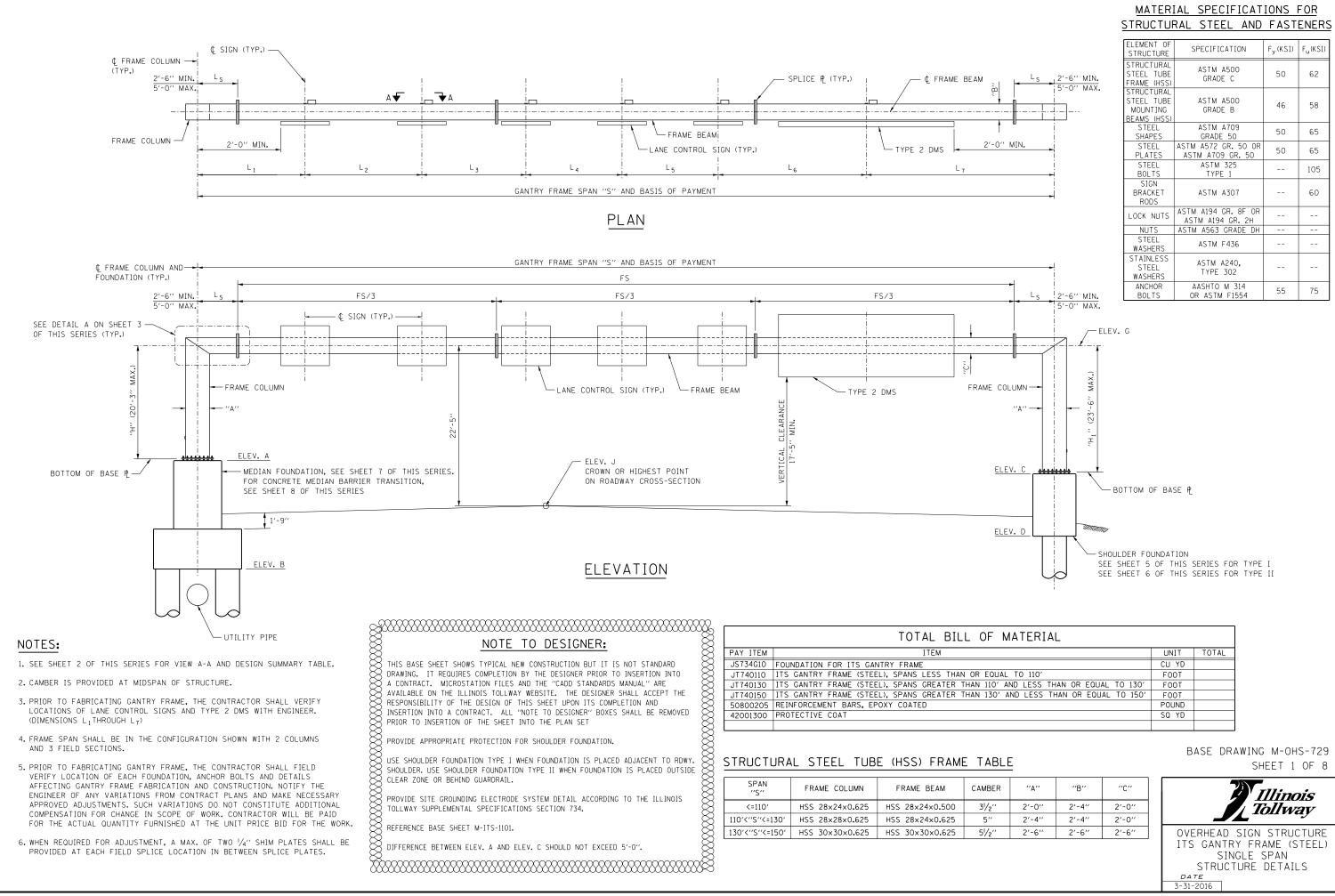
SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1101)

	FOR OVERHEAD RUCTURE	REINFORCEMENT BARS,	PROTECTIVE
CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	EPOXY COATED (POUNDS)	COAT (CU YD)

M-0HS-728

Illinois Tollway

OVERHEAD SIGN STRUCTURE SPAN TYPE (STEEL) SUMMARY AND TOTAL BILL OF MATERIAL DATE 3-31-2016



OF MATERIAL		
	UNIT	TOTAL
	CU YD	
R EQUAL TO 110'	FOOT	
N 110' AND LESS THAN OR EQUAL TO 130'	FOOT	
N 130' AND LESS THAN OR EQUAL TO 150'	FOOT	
	POUND	
	SQ YD	

AMBER	"A"	"B"	"C"
31/2''	2'-0''	2'-4''	2'-0''
5′′	2'-4''	2'-4''	2'-0''
5 /2''	2'-6''	2'-6''	2'-6''

GENERAL NOTES:

1. ALL EXPOSED CONCRETE EDGES SHALL HAVE A $\frac{3}{2}$ " \times 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.

REINFORCEMENT BARS:

- 1. REINFORCEMENT BARS, INCLUDING REINFORCEMENT BARS, EPOXY-COATED SHALL CONFORM TO THE REQUIREMENTS OF STANDARD SPECIFICATIONS SECTION 508 AND ARTICLE 1006.10.
- 2. REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY-COATED.
- 3. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- 4. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT-TO-OUT.
- 5. COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN.

CONSTRUCTION SPECIFICATIONS:

- 1. ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS ISSUED MARCH, 2015 TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 2. ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2015.
- 3. ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012.

4'-0'

4'-0'

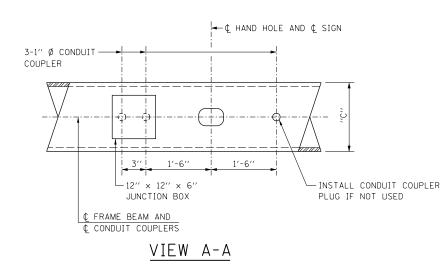
4'-0''

4'-0'

<=110'

110'<''S''<=130'

130'<''S''<=150'



EQ.

EQ.

7

EQ.

EQ.

7

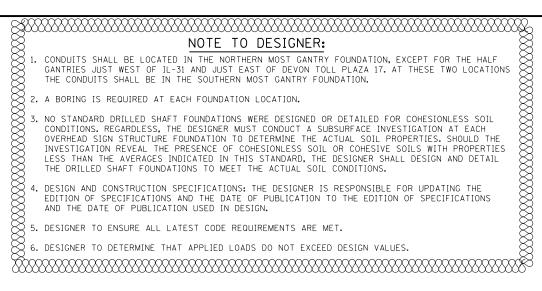
 I30'<''S''<=150'</td>
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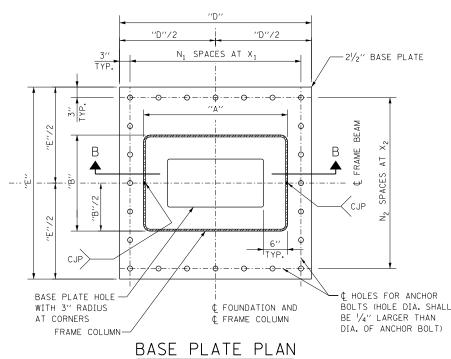
11/4''

11/4''

20

28





SEE SHEET 1 OF THIS SERIES FOR DIMENSIONS "A" AND "B"

| | | | | | | | | | | DESIC | GN SL | JMM4 | RY | | | | | | | | | | | | |
|---------------------|----------|------------------|----------------|---------|---------|---------|---------|-----------------------|---------------------|----------------------------------|-------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|----------------|----------------|----------------|--------------------------------------|-------------------|
| STRUCTURE
NUMBER | STATION | SPAN "S"
(FT) | ELEV. A | ELEV. B | ELEV. C | ELEV. D | ELEV. J | ELEV. G | FOUNDATION
TYPE | MINIMUM
VERTICAL
CLEARANCE | FS | Ls | L ₁ | L ₂ | L ₃ | L ₄ | L ₅ | L ₆ | L ₇ | н | H ₁ | | | REINF. BARS,
EPOXY
COATED (LB) | COAT |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | <u> </u> | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASE PLA | TE TABLE | - TYP | <u> </u> | | | | | | \$\$\$\$\$ | \$\$\$\$\$ | | k
k | BA | SE P | LATE | ΤΑΒΙ | _E - | TYPE | N | | TOTAL | | | <u> </u> | |
| SPAN
''S'' | "D" | "E" | N ₁ | ×1 | N | 2 | | NCHOR BOL
DIAMETER | T NO. ANCHO
BOLT | R | | ğ | | SPAN
''S'' | | ''D'' | "E | | N ₁ | Х | 1 | N ₂ | X ₂ | ANCHOR BOLT
DIAMETER | NO. ANCHO
BOLT |

3'-5'' <=110 3'-2'' 110'<''S''<=130' 3'-5'' 3'-6' 5 7'' 6 6'' 130'<''S''<=150' 3'-71/2'' 3'-6' 71/2" 6'' 5 6

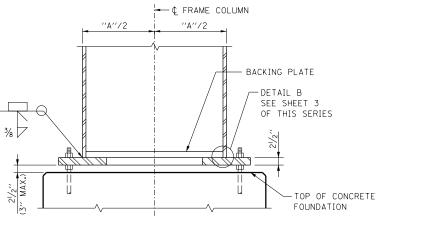
DESIGN LOADING: WIND LOAD CRI

SIGN PANEL COLUMN/BEAM TYPE 2 DMS

EQUIPMENT LOADS:

LANE CONTROL SIGNS TYPE 2 DMS

DESIGN STRESSES FOR REINFORCED CONCRETE:



| ITERIA | | | |
|--------|-----------|-----------------------------|-----------|
| | 40 P.S.F. | BASIC WIND SPEED | 90 M.P.H. |
| M | 40 P.S.F. | G | 1.14 |
| | 42 P.S.F. | Ir (WIND IMPORTANCE FACTOR) | 1.0 |
| | | Kz | 1.0 |
| | | | |

TL-5 DESIGN REQUIREMENTS, WHERE APPLICABLE FOR FOUNDATION ONLY, PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SIXTH EDITION WITH CURRENT INTERIMS

460 LB. MAX. (5'-0" H. X 6'-1" W. X 1'-2" D. MAX.)

1.800 LB. MAX. (8'-0" H. X 22'-0" W. X 1'-2" D. MAX.) ITS GANTRY FRAMES ARE DESIGNED FOR MAX. LOADING OF 2-TYPE 2 DMS AND 4-LANE CONTROL SIGNS. ITS GANTRY FOUNDATIONS ARE DESIGNED FOR MAX. LOADING OF 3-TYPE 2 DMS AND 1-LANE CONTROL SIGN IN EACH ADDITIONAL 12' LANE.

f'c = COMPRESSIVE STRENGTH OF CONCRETE (CLASS BS) = 4.000 P.S.I. f'c = COMPRESSIVE STRENGTH OF CONCRETE (CLASS DS) = 4,000 P.S.I. fy = YIELD STRENGTH OF REINFORCEMENT BARS (GRADE 60) = 60,000 P.S.I

DESIGN SPECIFICATIONS:

1. ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL ISSUED MARCH, 2015, WITH LATEST DESIGN BULLETINS.

2. AASHTO STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, SIXTH EDITION.

3. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SIXTH EDITION WITH CURRENT INTERIMS.

4. ILLINOIS DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL, JANUARY 2012.

5. ILLINOIS TOLLWAY GEOTECHNICAL ENGINEER MANUAL DATED MARCH 2014.

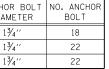
SECTION B-B

| \$40000000000000000000000000000000000000 |
|--|
| NOTE TO DESIGNER: |
| THIS BASE SHEET SHOWS TYPICAL NEW
CONSTRUCTION BUT IT IS NOT 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 PRIOR TO INSERTION OF THE SHEET
INTO THE PLAN SET |

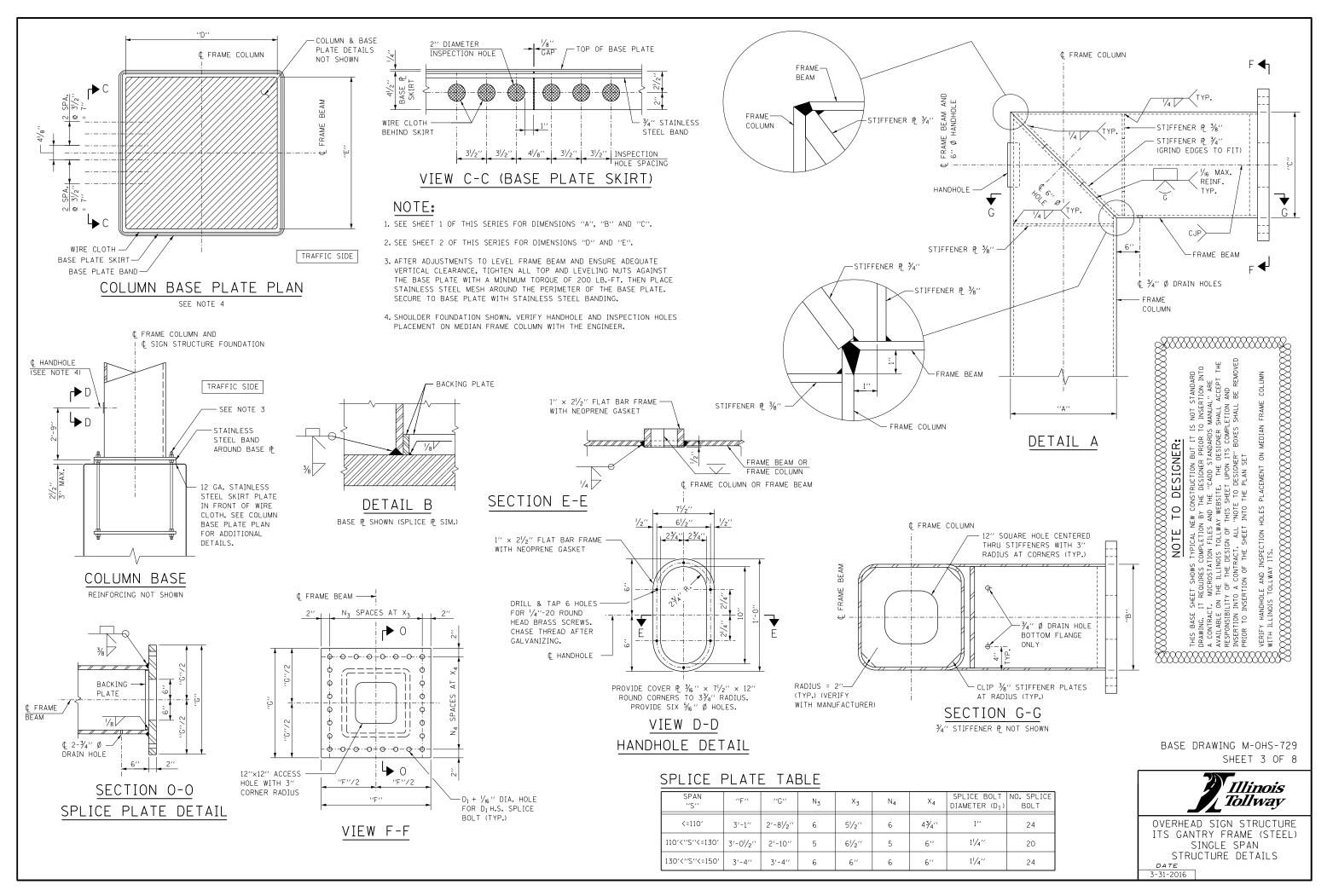
MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLW, WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHA, BE REMOVED PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET ₹

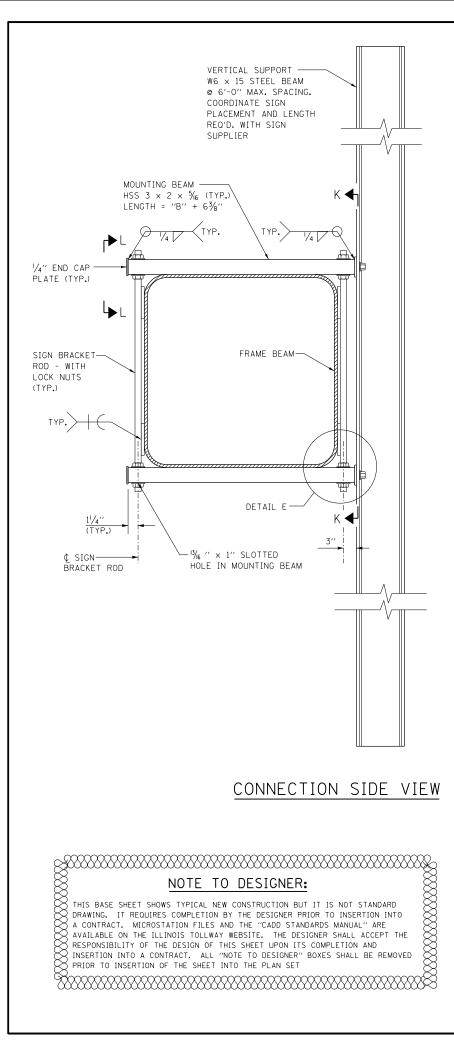
> BASE DRAWING M-OHS-729 SHEET 2 OF 8

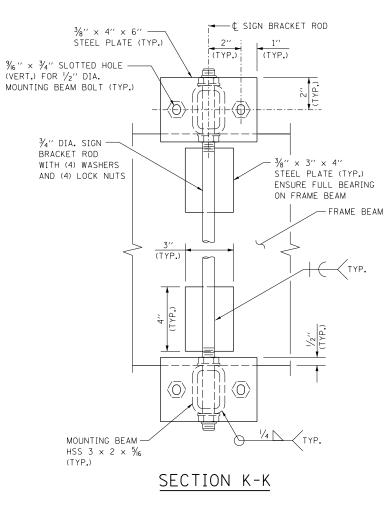




OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS DATE 3-31-2016







VERTICAL SUPPORT TABLE

| | W6×15 | |
|--------------|--------------------------|-----------------------|
| SIGN | WIDTH | NUMBER OF
VERTICAL |
| GREATER THAN | LESS THAN OR
EQUAL TO | SUPPORTS |
| | 8'-0'' | 2 |
| 8'-0'' | 14'-0'' | 3 |
| 14'-0'' | 20'-0'' | 4 |
| 20'-0'' | 26'-0'' | 5 |

NOTES:

- 1. CONNECTION DETAIL IS APPLICABLE TO DMS AND LANE CONTROL SIGN.
- 2. VERIFY VERTICAL SUPPORT MEMBER LENGTH PRIOR TO FABRICATION.
- 3. DMS MANUFACTURER AND LANE CONTROL SIGN MANUFACTURER SHALL DESIGN, PROVIDE AND INSTALL HORIZONTAL MOUNTING MEMBERS. VERTICAL SPACING OF HORIZONTAL MEMBERS SHALL BE DESIGNED BY MANUFACTURER. VERIFY VERTICAL SPACING WITH HOLES ON W6×15 VERTICAL SUPPORT.

4. PROVIDE HIGH STRENGTH BOLTS WITH WASHERS AND LOCK NUTS TO FASTEN DMS AND LANE CONTROL SIGN TO VERTICAL SUPPORT MEMBERS.

- 5. GALVANIZE ALL NON-STAINLESS STEEL PARTS.
- 6. SIGN BRACKET RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307.
- 7. LOCK NUTS SHALL BE STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A194 GRADE 8F OR ASTM A194 GRADE 2H.

LOCK NUT WITH NYLON -INSERT AND WASHER. SEE NOTE 8.

> 1/4" × 3" × 4" END CAP PLATE

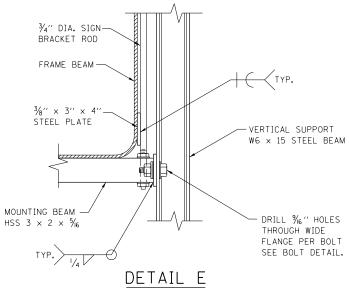
¾″ DIA. HEX NUT AND WASHER

³/₈^{''} × 3^{''} × 4^{''} STEEL PLATE

> ¾" DIA. SIGN. BRACKET ROD

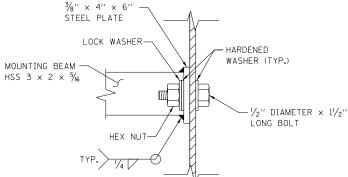
FRAME BEAM-

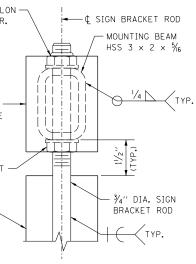
3/8" × 3" × 4" STEEL PLATE



HSS 3 × 2 × 5/6





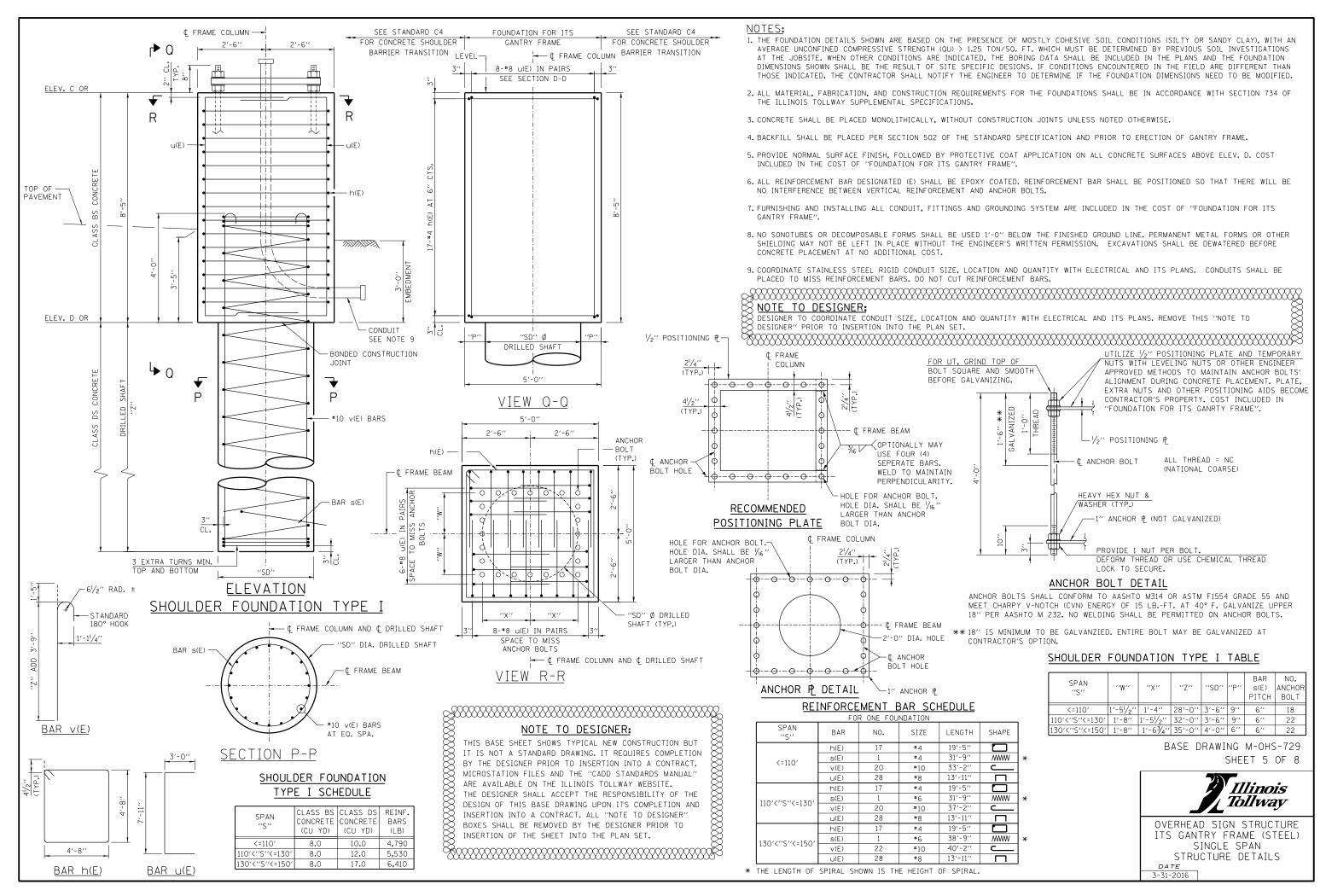


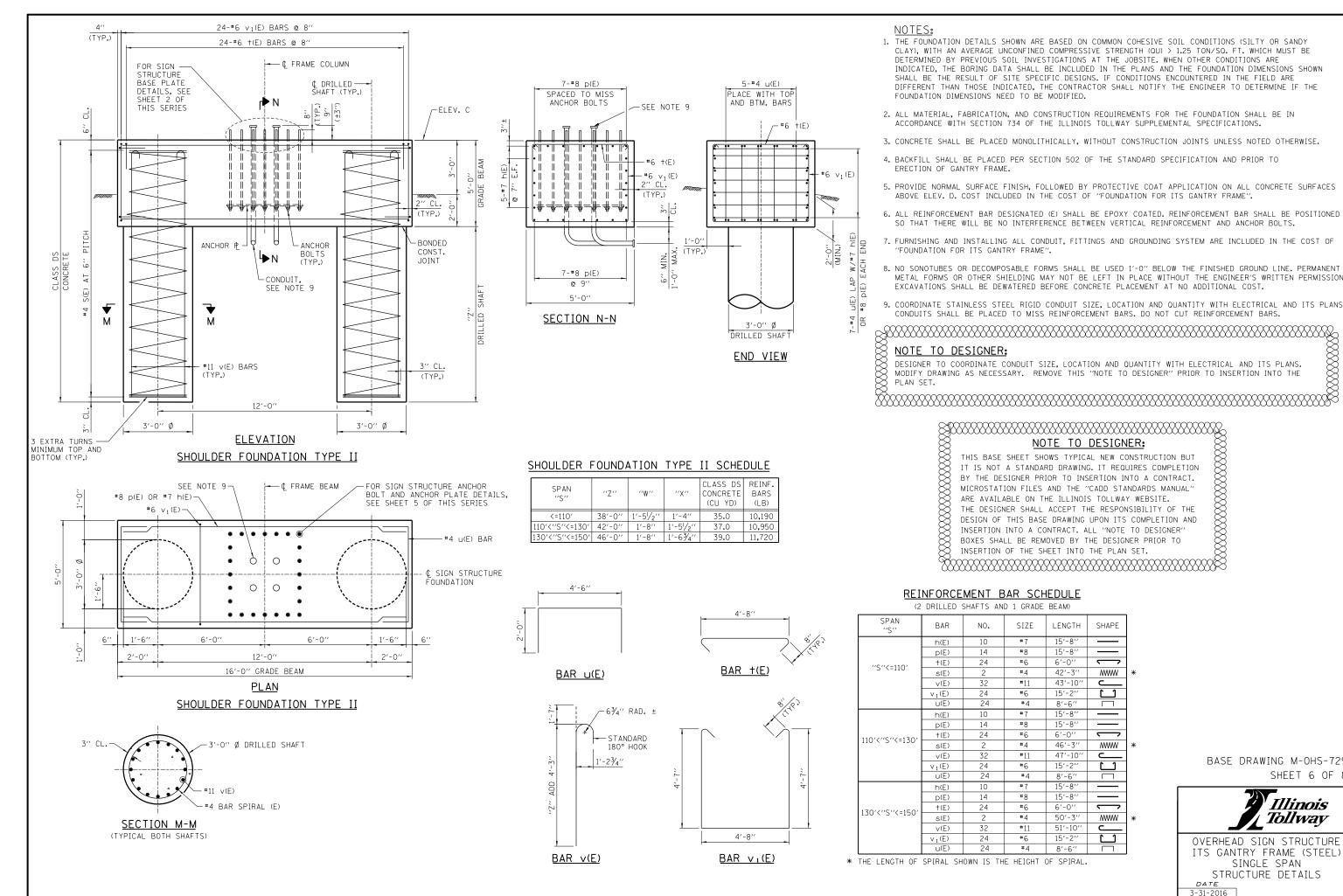
VIEW L-L

BOLT DETAIL SIGN BRACKET ROD NOT SHOWN FOR CLARITY BASE DRAWING M-OHS-729 SHEET 4 OF 8



OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS DATE 3-31-2016





1. THE FOUNDATION DETAILS SHOWN ARE BASED ON COMMON COHESIVE SOIL CONDITIONS (SILTY OR SANDY CLAY), WITH AN AVERAGE UNCONFINED COMPRESSIVE STRENGTH (QU) > 1.25 TON/SQ. FT. WHICH MUST BE DETERMINED BY PREVIOUS SOIL INVESTIGATIONS AT THE JOBSITE. WHEN OTHER CONDITIONS ARE INDICATED, THE BORING DATA SHALL BE INCLUDED IN THE PLANS AND THE FOUNDATION DIMENSIONS SHOWN

SHALL BE THE RESULT OF SITE SPECIFIC DESIGNS. IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN THOSE INDICATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE IF THE

2. ALL MATERIAL, FABRICATION, AND CONSTRUCTION REQUIREMENTS FOR THE FOUNDATION SHALL BE IN ACCORDANCE WITH SECTION 734 OF THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.

3. CONCRETE SHALL BE PLACED MONOLITHICALLY, WITHOUT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.

4. BACKFILL SHALL BE PLACED PER SECTION 502 OF THE STANDARD SPECIFICATION AND PRIOR TO

5. PROVIDE NORMAL SURFACE FINISH, FOLLOWED BY PROTECTIVE COAT APPLICATION ON ALL CONCRETE SURFACES ABOVE ELEV. D. COST INCLUDED IN THE COST OF "FOUNDATION FOR ITS GANTRY FRAME".

6. ALL REINFORCEMENT BAR DESIGNATED (E) SHALL BE EPOXY COATED. REINFORCEMENT BAR SHALL BE POSITIONED SO THAT THERE WILL BE NO INTERFERENCE BETWEEN VERTICAL REINFORCEMENT AND ANCHOR BOLTS.

7. FURNISHING AND INSTALLING ALL CONDUIT, FITTINGS AND GROUNDING SYSTEM ARE INCLUDED IN THE COST OF

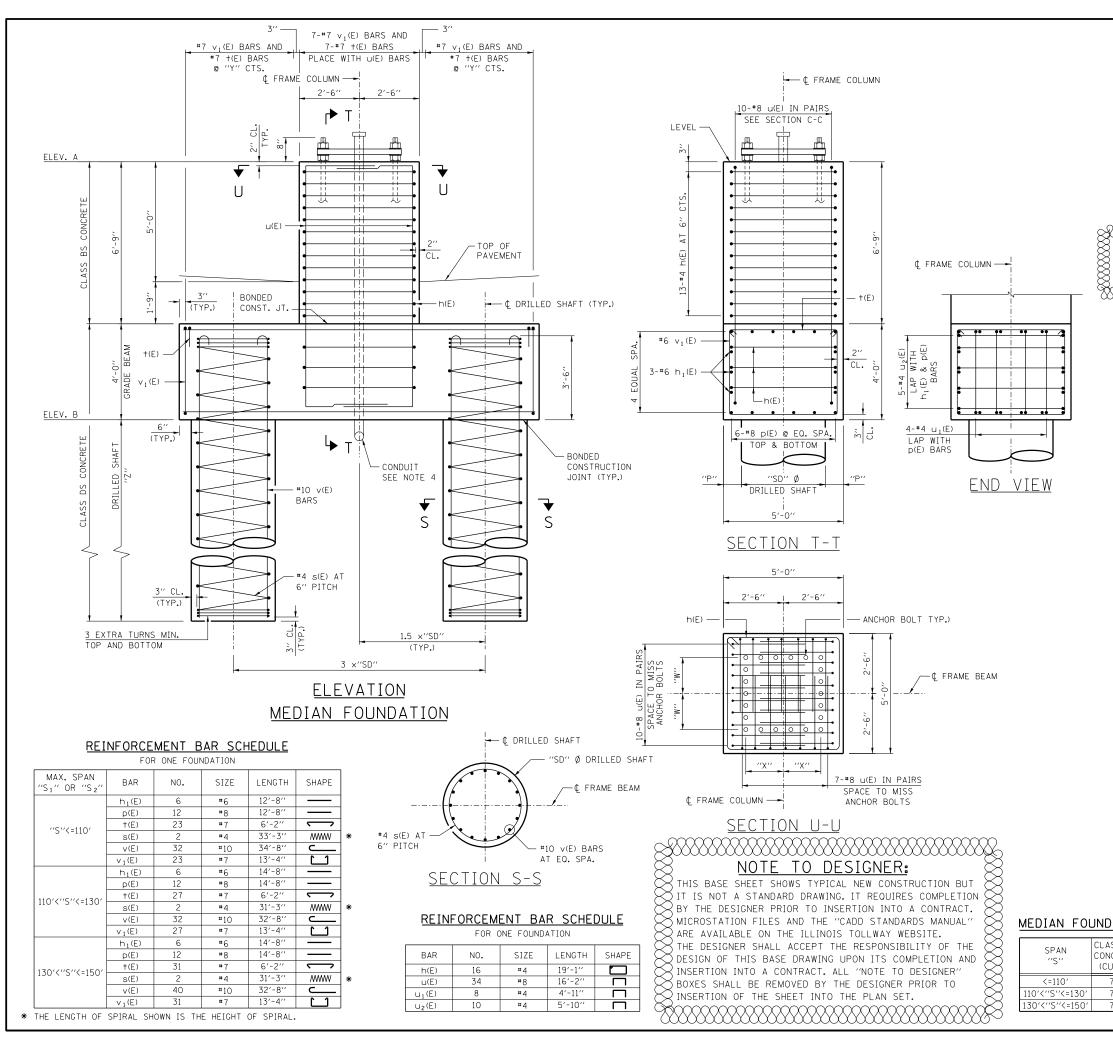
8. NO SONOTUBES OR DECOMPOSABLE FORMS SHALL BE USED 1'-O" BELOW THE FINISHED GROUND LINE. PERMANENT METAL FORMS OR OTHER SHIELDING MAY NOT BE LEFT IN PLACE WITHOUT THE ENGINEER'S WRITTEN PERMISSION. EXCAVATIONS SHALL BE DEWATERED BEFORE CONCRETE PLACEMENT AT NO ADDITIONAL COST.

9. COORDINATE STAINLESS STEEL RIGID CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. CONDUITS SHALL BE PLACED TO MISS REINFORCEMENT BARS. DO NOT CUT REINFORCEMENT BARS.

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 BASE DRAWING 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.

| AIN | J I GRADE | DLAWD | | | |
|-----|-------------|------------|-------|---|----------------------------------|
| | SIZE | LENGTH | SHAPE | | |
| | #7 | 15'-8'' | | | |
| | # 8 | 15'-8'' | | 1 | |
| | #6 | 6'-0'' | ſ | | |
| | #4 | 42'-3'' | MMM | * | |
| | * 11 | 43'-10'' | | | |
| | # 6 | 15'-2'' | Ľ1 | | |
| | #4 | 8'-6'' | | | |
| | # 7 | 15'-8'' | | | |
| | #8 | 15'-8'' | | | |
| | #6 | 6'-0'' | ļ | | |
| | # 4 | 46'-3'' | MMM | * | |
| | # 11 | 47'-10'' | | | BASE DRAWING M-OHS-729 |
| | #6 | 15'-2'' | Ľ | | |
| | #4 | 8'-6'' | | | SHEET 6 OF 8 |
| | # 7 | 15'-8'' | | | |
| | #8 | 15'-8'' | | | |
| | #6 | 6'-0'' | ļ | | llinois |
| | # 4 | 50'-3'' | MMW | * | Tollway |
| | # 11 | 51'-10'' | | | |
| | #6 | 15'-2'' | Ľ | | OVERHEAD SIGN STRUCTURE |
| | #4 | 8'-6'' | | | ITS GANTRY FRAME (STEEL) |
| ТН | E HEIGHT | OF SPIRAL. | | | SINGLE SPAN
STRUCTURE DETAILS |



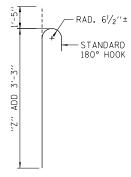
NOTES:

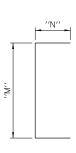
- 1. SEE SHEET 5 OF THIS SERIES FOR FOUNDATION NOTES, DESIGN CRITERIA, ANCHOR BOLT DETAIL AND ANCHOR PLATE DETAIL.
- 2. PROVIDE NORMAL SURFACE FINISH, FOLLOWED BY PROTECTIVE COAT APPLICATION ON ALL CONCRETE SURFACES ABOVE TOP OF GRADE BEAM. COST INCLUDED IN THE COST OF "FOUNDATION FOR ITS GANTRY FRAME".
- SEE SHEET 8 OF THIS SERIES FOR CONCRETE MEDIAN BARRIER TRANSITION. COST OF BARRIER TRANSITION INCLUDED IN COST OF "CONCRETE MEDIAN BARRIER TRANSITION. TYPE V-F".
- 4. COORDINATE STAINLESS STEEL RIGID CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS, CONDUITS SHALL BE PLACED TO MISS REINFORCEMENT BARS. DO NOT CUT REINFORCEMENT BARS.
- 5. PROTECTIVE COAT SHALL BE APPLIED TO TRAFFIC AND TOP FACES OF CONCRETE CRASHWALL.

NOTE TO DESIGNER: DESIGNER TO COORDINATE CONDUIT SIZE, LOCATION AND OUANTITY WITH ELECTRICAL AND ITS PLANS. MODIFY DRAWING AS NECESSARY. REMOVE THIS "NOTE TO DESIGNER" PRIOR TO INSERTION INTO THE PLAN SET.

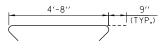
MEDIAN FOUNDATION TABLE

| SPAN
''S'' | ''Z'' | ''SD'' | "P" | "W" | "X" | "Y" | NO.
ANCHOR
BOLT |
|------------------|---------|--------|--------|-----------|-----------|-----|-----------------------|
| <=110' | 30'-0'' | 3'-0'' | 1'-0'' | 1'-51/2'' | 1'-4'' | 6'' | 18 |
| 110'<''S''<=130' | 28'-0'' | 3'-6'' | 9′′ | 1'-8'' | 1'-51/2'' | 6′′ | 22 |
| 130'<''S''<=150' | 28'-0'' | 3'-6'' | 9′′ | 1'-8'' | 1′-6¾′′ | 5″ | 22 |

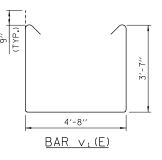




BAR V(E)

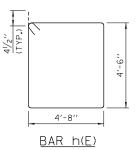






BAR u(E) BAR U1(E) BAR u₂(E)

| BAR | "M" | "N" |
|--------------------|---------|--------|
| u(E) | 10'-2'' | 3'-0'' |
| u1(E) | 3'-7'' | 8′′ |
| u ₂ (E) | 4'-6'' | 8′′ |



BASE DRAWING M-OHS-729 SHEET 7 OF 8



SINGLE SPAN

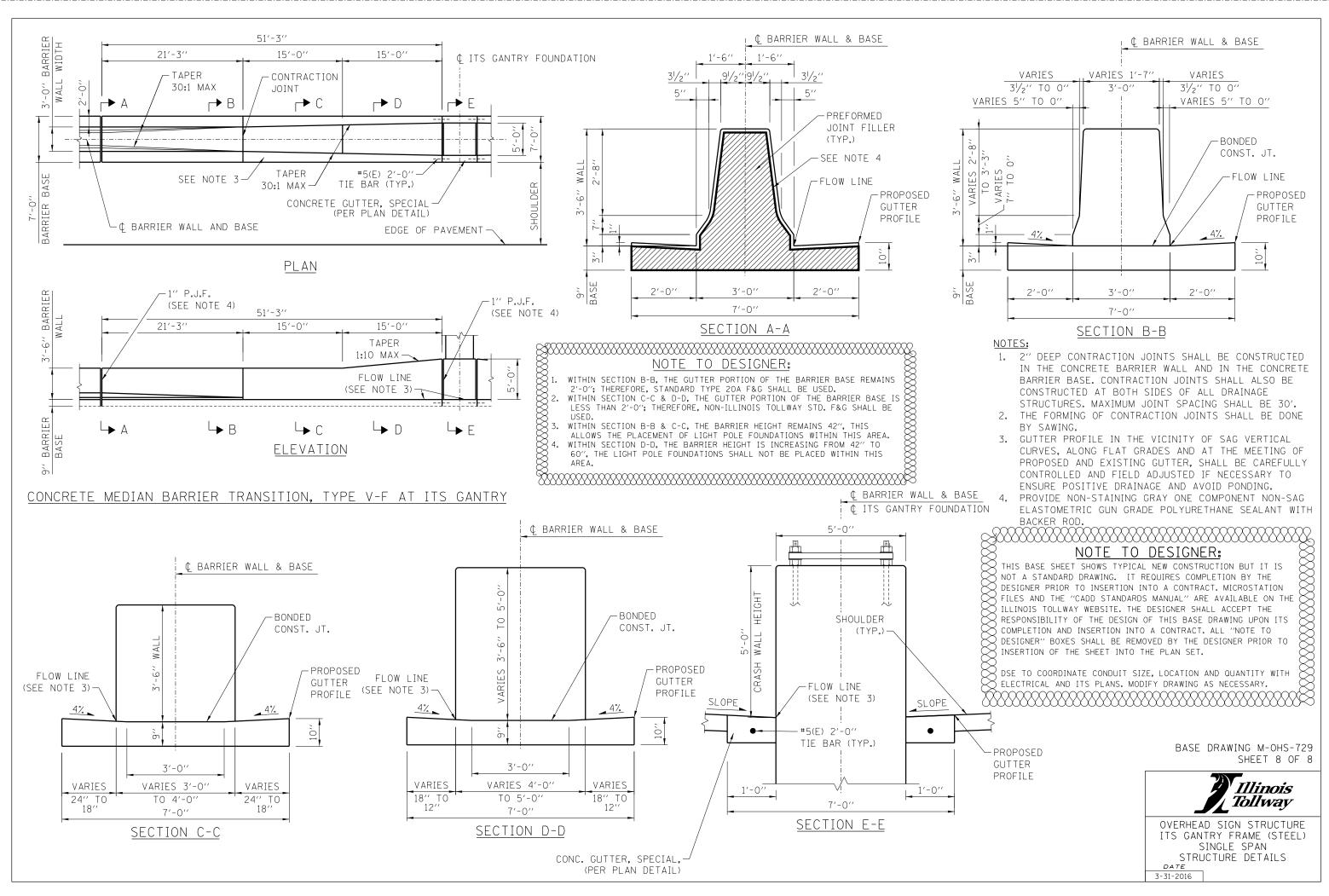
STRUCTURE DETAILS

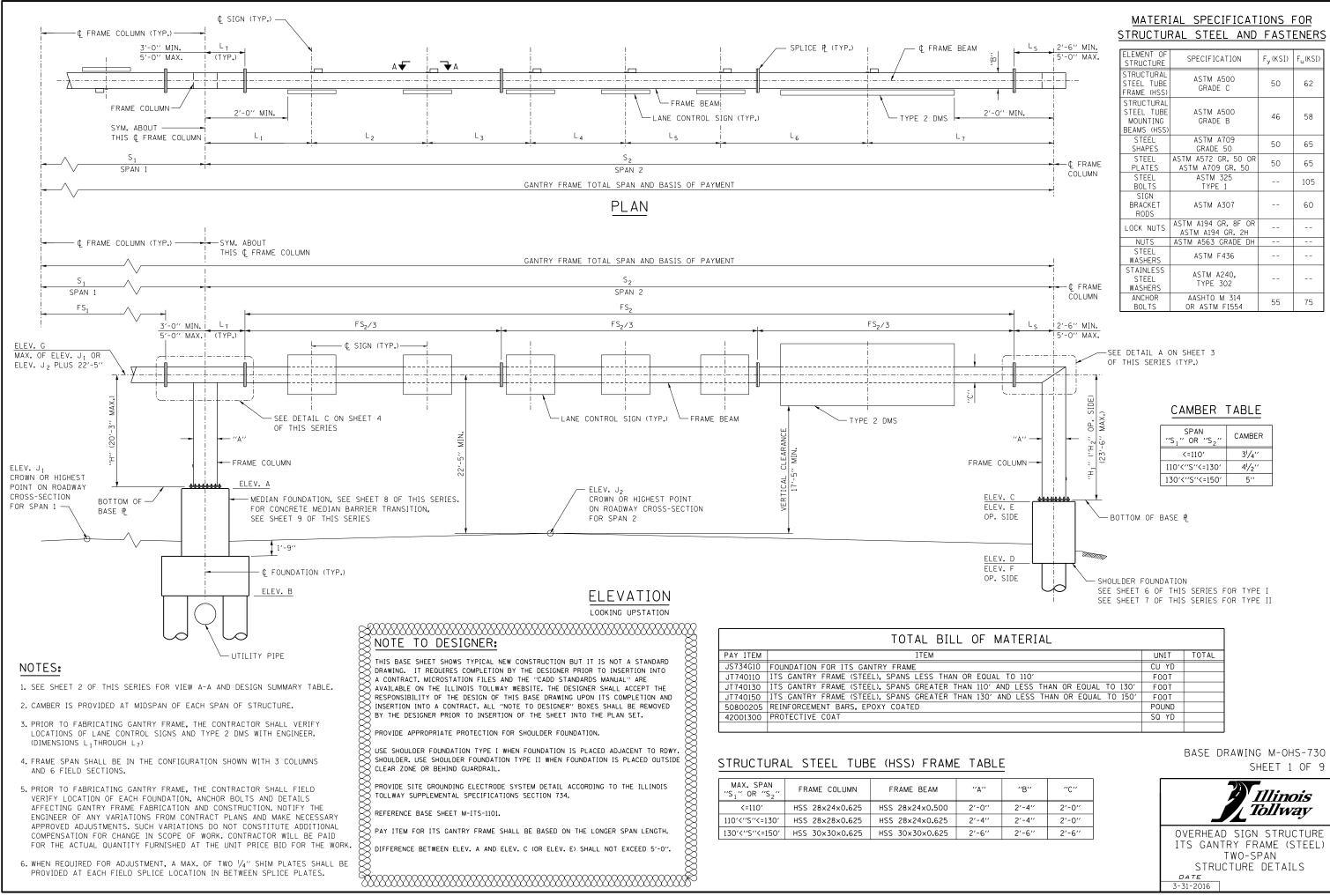
| A | Т | ION | SCHEDULE | |
|---|---|-----|----------|--|
| | | | | |

| | CLASS DS | REINF. | PROTECTIVE | | |
|-------|----------|--------|------------|--|--|
| CRETE | CONCRETE | BARS | COAT | | |
| J YD) | (CU YD) | (LB) | (SQ YD) | | |
| 7.0 | 26.0 | 8,690 | 9 | | |
| 7.0 | 32.0 | 8,760 | 9 | | |
| 7.0 | 32.0 | 10,050 | 9 | | |
| | | | | | |

DATE

3-31-2016





| Α'' | "B" | ''C'' |
|------|--------|--------|
| -0'' | 2'-4'' | 2'-0'' |
| -4'' | 2'-4'' | 2'-0'' |
| -6'' | 2'-6'' | 2'-6'' |
| | | |

GENERAL NOTES:

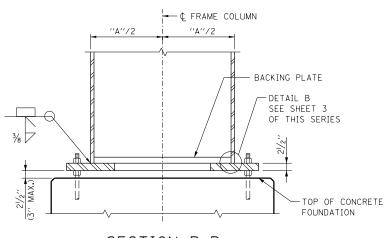
1. ALL EXPOSED CONCRETE EDGES SHALL HAVE A $\frac{3}{4}$ " × 45° CHAMFER, EXCEPT WHERE SHOWN OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.

REINFORCEMENT BARS:

- 1. REINFORCEMENT BARS, INCLUDING REINFORCEMENT BARS, EPOXY-COATED SHALL CONFORM TO THE REQUIREMENTS OF STANDARD SPECIFICATIONS SECTION 508 AND ARTICLE 1006.10.
- 2. REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY-COATED.
- 3. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- 4. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT-TO-OUT.
- 5. COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN.

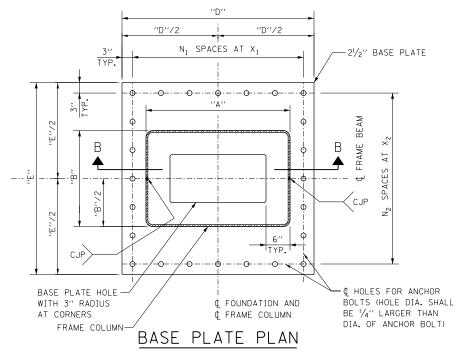
CONSTRUCTION SPECIFICATIONS:

- 1. ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS ISSUED MARCH, 2015 TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 2. ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2015.
- 3. ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012.



SECTION B-B

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 LLLINDIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS BASE DRAWING 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.
 1. CONDUITS SHALL BE LOCATED IN THE NORTHERN MOST GANTRY FOUNDATION, EXCEPT FOR THE HALF GANTRIES JUST WEST OF IL-31 AND JUST EAST OF DEVON TOLL PLAZA 17. AT THESE TWO LOCATIONS THE CONDUITS SHALL BE IN THE SOUTHERN MOST GANTRY FOUNDATION.
 2. A BORING IS REQUIRED AT EACH FOUNDATION VORTHERN MOST GANTRY FOUNDATION.
 3. NO STANDARD DRILLED SHAFT FOUNDATION TO DETERMINE THE ACTUAL SOIL PROPERTIES, SHOULD THE INVESTIGATION REVERANCE OF COHESIONLESS SOIL CONDITIONS, REGARDLESS, THE DESIGNER MUST CONDUCT A SUBSURFACE INVESTIGATION AT EACH OVERHEAD SION STRUCTURE FOUNDATION TO DETERMINE THE ACTUAL SOIL PROPERTIES, SHOULD THE INVESTIGATION REVERAL THE DESIGNER SOIL CONDITIONS.
 4. DOSTANDARD DRILLED SHAFT FOUNDATION TO DETERMINE THE ACTUAL SOIL PROPERTIES, SHOULD THE INVESTIGATION REVERAL THE DESIGNER SOIL CONDITIONS.
 5. DOSTANT FOUNDATIONS TO MEET THE ACTUAL SOIL PROPERTIES, SHOULD THE INVESTIGATION REVERING TO MEET THE ACTUAL SOIL CONDITIONS.
 4. DESIGN AND CONSTRUCTION SPECIFICATIONS TO MEET THE ACTUAL SOIL CONDITIONS.
 5. DESIGNER TO ENSURE AND THE DATE OF PUBLICATION TO THE DEDITION OF SPECIFICATIONS AND THE DATE OF PUBLICATION TO THE DEDITION OF SPECIFICATIONS AND THE DATE OF PUBLICATION TO THE DEDITION OF SPECIFICATIONS AND THE DATE OF PUBLICATION TO THE DEDITION OF SPECIFICATIONS AND THE DATE OF PUBLICATION TO THE DEDITION OF SPECIFICATIONS AND THE DATE OF PUBLICATION TO THE DEDITION OF SPECIFI



SEE SHEET 1 OF THIS SERIES FOR DIMENSIONS "A" AND "B"

DESIGN SUMMARY

| | | | | | | | | | | | _510 | 1 300 | | | | | | | | | | | | |
|---|---------------------|----------------|----------------|---------------|------------|----------------|----------------|------------------------|-----|---------------------|----------------|----------------|--------------------|----------------|-----------------|-----------------|------|----|---|----------------|----------------|----------------|----------------|----------------|
| STRUCTURE | STATION | S ₁ | S ₂ | TOTAL
SPAN | | | | ELEVATION | | | | | FOUNDATION VERTICA | | FS ₁ | FS ₂ | 1 | LT | н | н, | H ₂ | CON | ICRETE ((| U YD |
| NUMBER | | (FT) | (FT) | (FT) | А | В | С | DE | F | G | J ₁ | J ₂ | TYPE | CLEARANCE | | 1.32 | Ls | -T | | | 12 | | S BS CL | 4SS [|
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| BASE PLA | | | | | | | | | | | | | 1 | | 1 | | | | | | TOTA | | | |
| Ř | [| | | | | | | | | 8 | STRUCTU | STRUCTURE | E CTUTION | | | | SPAN | 1 | | | | | | |
| $\begin{array}{c c} & \text{MAX. SPAN} \\ & & $ | | "E" | N | 1 X | 1 | N ₂ | X ₂ | ANCHOR BOL
DIAMETER | BOL | | | NUMBER | E STATION | L ₇ | L ₆ | L ₅ | L4 | L3 | 3 | L ₂ | L ₁ | L ₁ | L ₂ | L ₃ |
| <=110' | 4'-0'' | 4'-0 | " 5 | EC |) . | 5 | E0. | 11/4'' | 20 | $\exists \boxtimes$ | | | | | | | | | | | | | | |
| ☐ 110'<''S''<=13 | 0' 4'-0'' | 4'-0 | " | EC |). | 7 | EQ. | 1 ¹ /4'' | 28 | = | | | | | | | | | | | | | | |
| 🗙 130'<''S''<=15 | 0' | | - | - - | - | | | | | 1X | | | | | | | - | | | | | | | |
| ➢ BASE ₱ TYPE
3358+60, 361 ⁻ | '+00 , 3728+ | 45, 3785+ | 95, 3904+0 | 08.00, 3933 | +50.00, | 3966+92. | 00 AND 4 | | | × | | | | | | | | | | | | | | |

DESIGN LOADING: WIND LOAD CRI SIGN PANEL COLUMN/BEAM

TYPE 2 DMS

TL-5 DESIGN REQUIREMENTS, WHERE APPLICABLE FOR FOUNDATION ONLY, PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SIXTH EDITION WITH CURRENT INTERIMS

LANE CONTROL SIGN TYPE 2 DMS

AND 4-LANE CONTROL SIGNS.

DESIGN STRESSES FOR REINFORCED CONCRETE:

DESIGN SPECIFICATIONS:

1. ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL ISSUED MARCH, 2015, WITH LATEST DESIGN BULLETINS.

2. AASHTO STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, SIXTH EDITION.

BASE PLATE TABLE - TYPE N

| MAX. SPAN
"S1" OR "S2" | ''D'' | "E" | N ₁ | x ₁ | N ₂ | x ₂ | ANCHOR BOLT
DIAMETER | NO.
ANCHOR
BOL T |
|---------------------------|------------------------|--------|----------------|---------------------|----------------|----------------|-------------------------|------------------------|
| <=110' | 3'-2'' | 3'-5'' | 4 | 8'' | 5 | 7'' | 1¾" | 18 |
| 110'<''S''<=130' | 3'-5'' | 3'-6'' | 5 | 7'' | 6 | 6'' | 1¾" | 22 |
| 130'<''S''<=150' | 3'-7 /2'' | 3'-6'' | 5 | 7 ¹ /2'' | 6 | 6'' | 1¾'' | 22 |

| ITERIA | | | |
|--------|-----------|-----------------------------|-----------|
| | 40 P.S.F. | BASIC WIND SPEED | 90 M.P.H. |
| M | 40 P.S.F. | G | 1.14 |
| | 42 P.S.F. | Ir (WIND IMPORTANCE FACTOR) | 1.0 |
| | | K _z | 1.0 |

EQUIPMENT LOADS:

460 LB. MAX. (5'-0" H. X 6'-1" W. X 1'-2" D. MAX.)

1,800 LB. MAX. (8'-0" H. X 22'-0" W. X 1'-2" D. MAX.) ITS GANTRY FRAMES ARE DESIGNED FOR MAX. LOADING IN EACH SPAN OF 2-TYPE 2 DMS

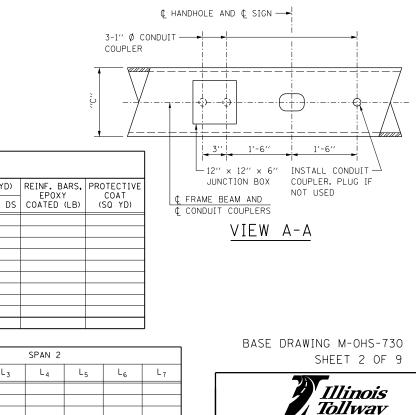
ITS GANTRY FOUNDATIONS ARE DESIGNED FOR MAX. LOADING IN EACH SPAN OF 3-TYPE 2 DMS AND 1-LANE CONTROL SIGN IN EACH ADDITIONAL 12' LANE.

f'c = COMPRESSIVE STRENGTH OF CONCRETE (CLASS BS) = 4,000 P.S.I. f'c = COMPRESSIVE STRENGTH OF CONCRETE (CLASS DS) = 4,000 P.S.I. fy = YIELD STRENGTH OF REINFORCEMENT BARS (GRADE 60) = 60,000 P.S.I.

3. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SIXTH EDITION WITH CURRENT INTERIMS.

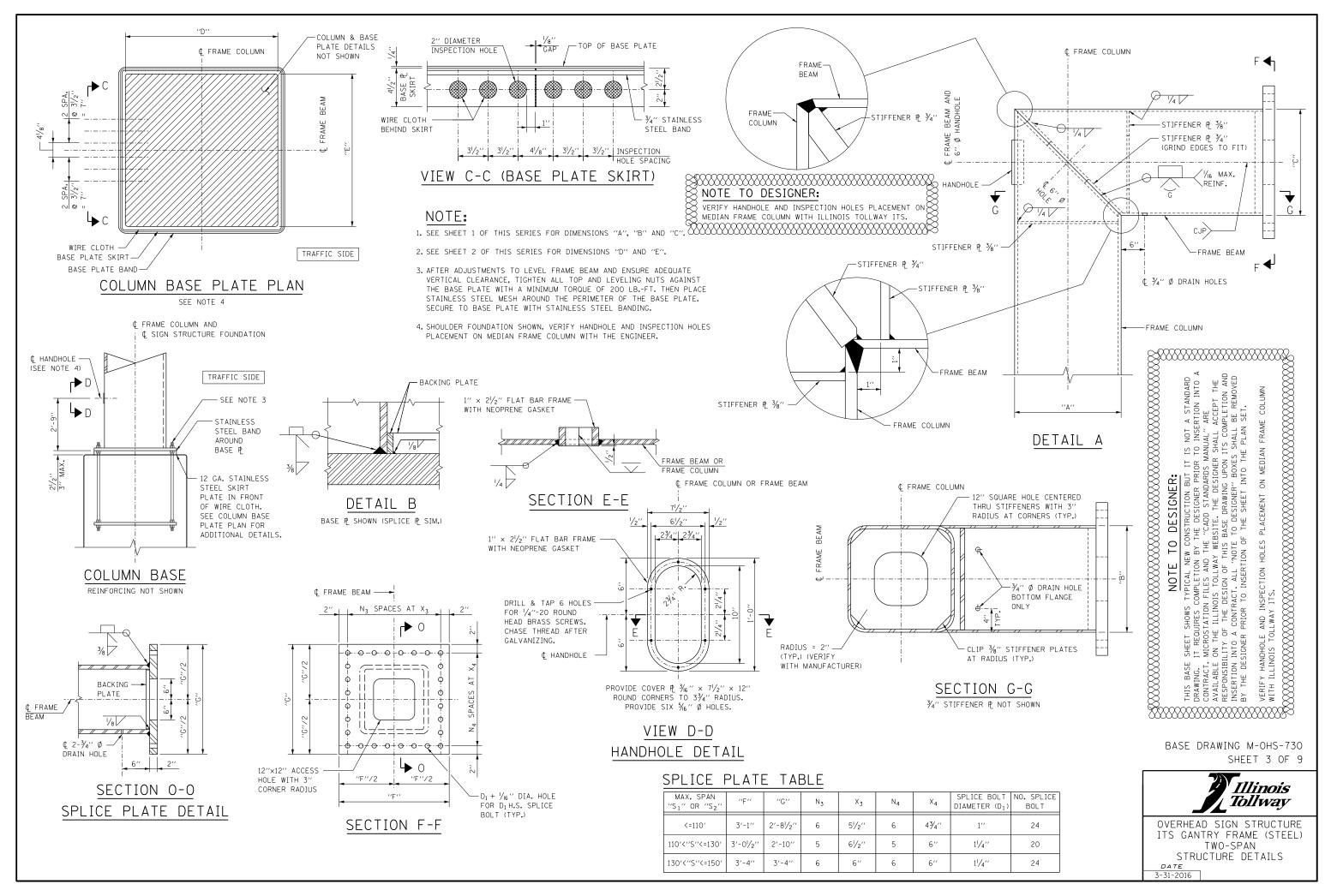
4. ILLINOIS DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL, JANUARY 2012.

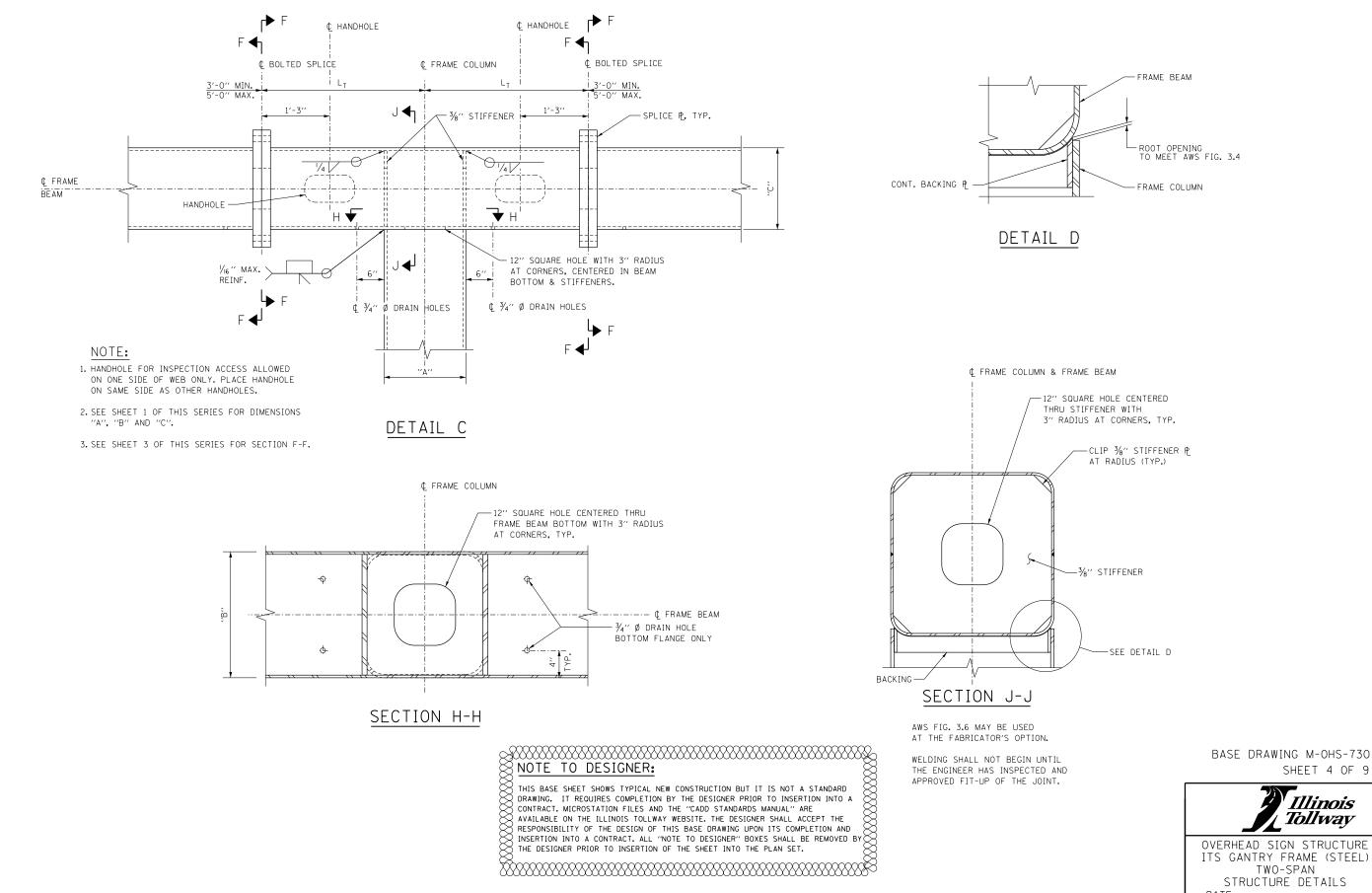
5. ILLINOIS TOLLWAY GEOTECHNICAL ENGINEER MANUAL DATED MARCH 2014.



DATE 3-31-2016

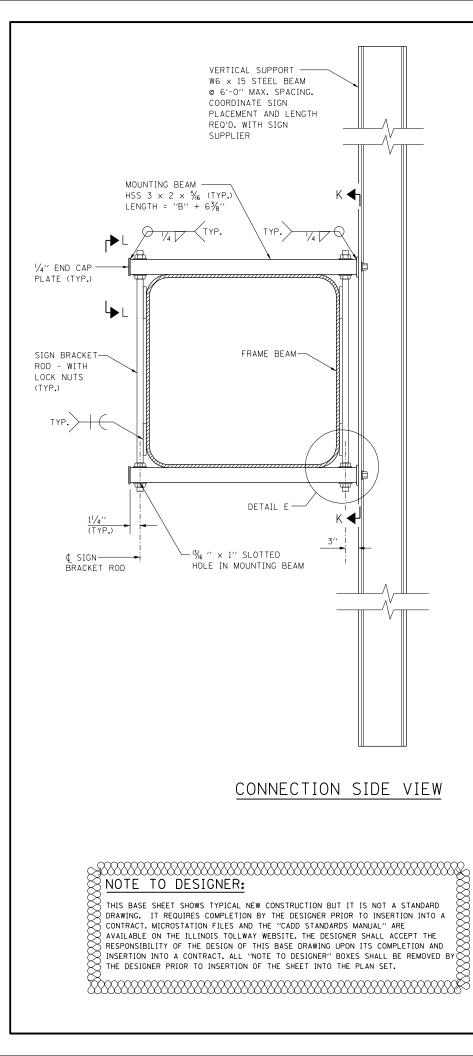
OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) TWO-SPAN STRUCTURE DETAILS

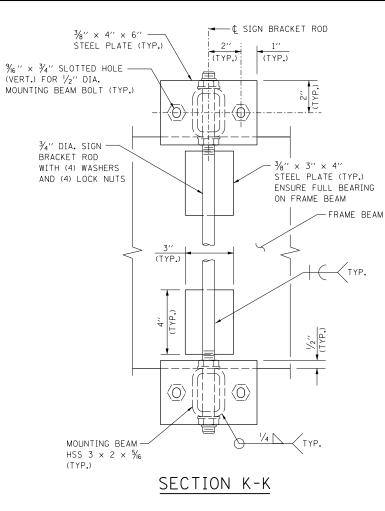




SHEET 4 OF 9

ITS GANTRY FRAME (STEEL) DATE 3-31-2016





VERTICAL SUPPORT TABLE

| W6×15 | | | | | | | |
|--------------|--------------------------|-----------------------|--|--|--|--|--|
| SIGN | WIDTH | NUMBER OF
VERTICAL | | | | | |
| GREATER THAN | LESS THAN OR
EQUAL TO | SUPPORTS
REQUIRED | | | | | |
| | 8'-0'' | 2 | | | | | |
| 8'-0'' | 14'-0'' | 3 | | | | | |
| 14'-0'' | 20'-0'' | 4 | | | | | |
| 20'-0'' | 26'-0'' | 5 | | | | | |

NOTES:

1. CONNECTION DETAIL IS APPLICABLE TO DMS AND LANE CONTROL SIGN.

- 2. VERIFY VERTICAL SUPPORT MEMBER LENGTH PRIOR TO FABRICATION.
- 3. DMS MANUFACTURER AND LANE CONTROL SIGN MANUFACTURER SHALL DESIGN, PROVIDE AND INSTALL HORIZONTAL MOUNTING MEMBERS. VERTICAL SPACING OF HORIZONTAL MEMBERS SHALL BE DESIGNED BY MANUFACTURER. VERIFY VERTICAL SPACING WITH HOLES ON W6×15 VERTICAL SUPPORT.
- 4. PROVIDE HIGH STRENGTH BOLTS WITH WASHERS AND LOCK NUTS TO FASTEN DMS AND LANE CONTROL SIGN TO VERTICAL SUPPORT MEMBERS.
- 5. GALVANIZE ALL NON-STAINLESS STEEL PARTS.
- 6. SIGN BRACKET RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307.
- 7. LOCK NUTS SHALL BE STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A194 GRADE 8F OR ASTM A194 GRADE 2H.

LOCK NUT WITH NYLON -INSERT AND WASHER. SEE NOTE 8.

> 1/4" × 3" × 4" END CAP PLATE

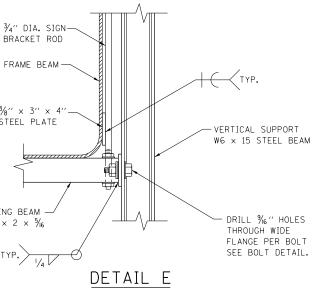
¾″ DIA. HEX NUT AND WASHER

³/₈^{''} × 3^{''} × 4^{''} STEEL PLATE

BRACKET ROD

FRAME BEAM-

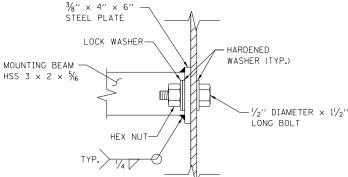
3/8" × 3" × 4" STEEL PLATE

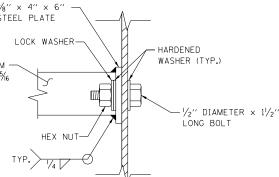


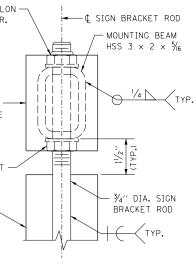
MOUNTING BEAM HSS 3 × 2 × 5/6









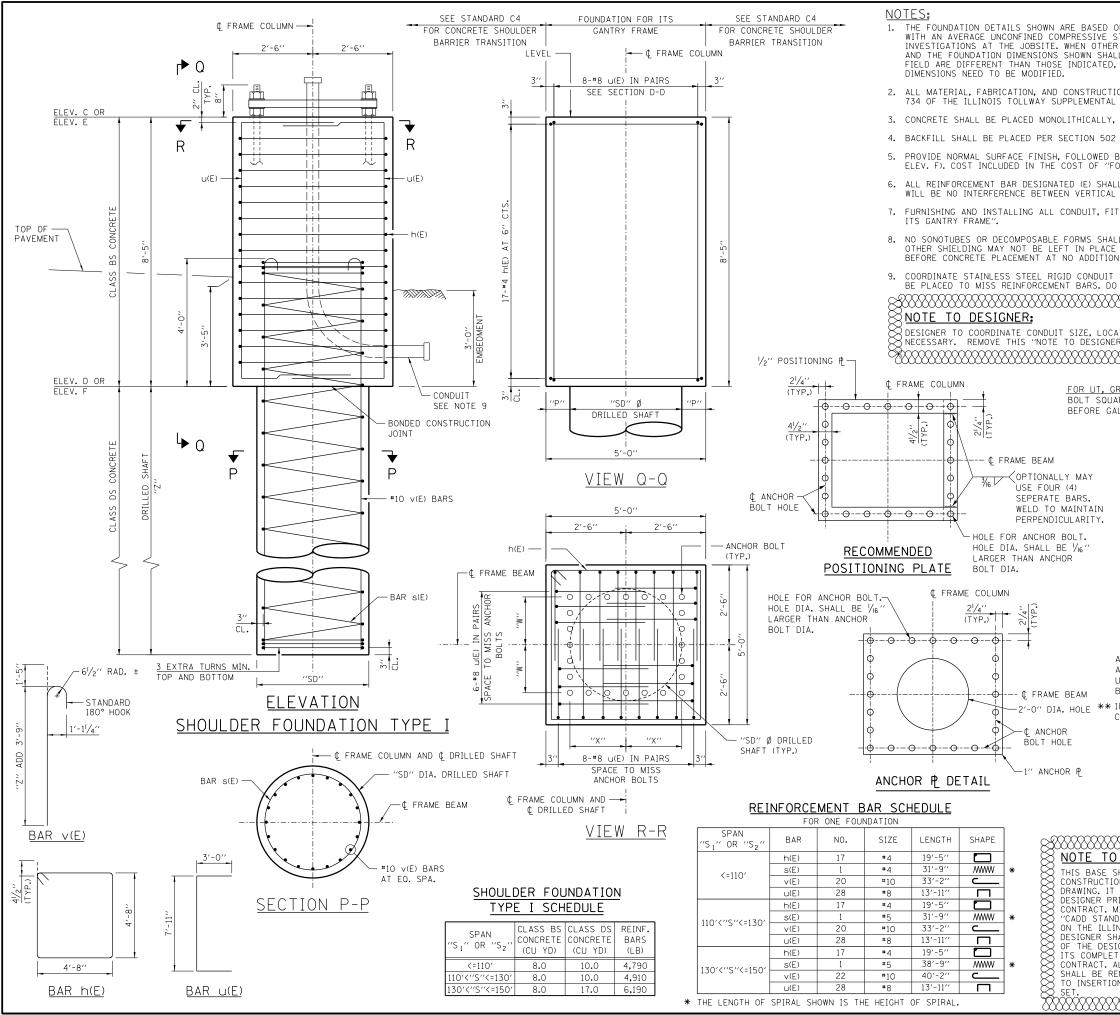


VIEW L-L

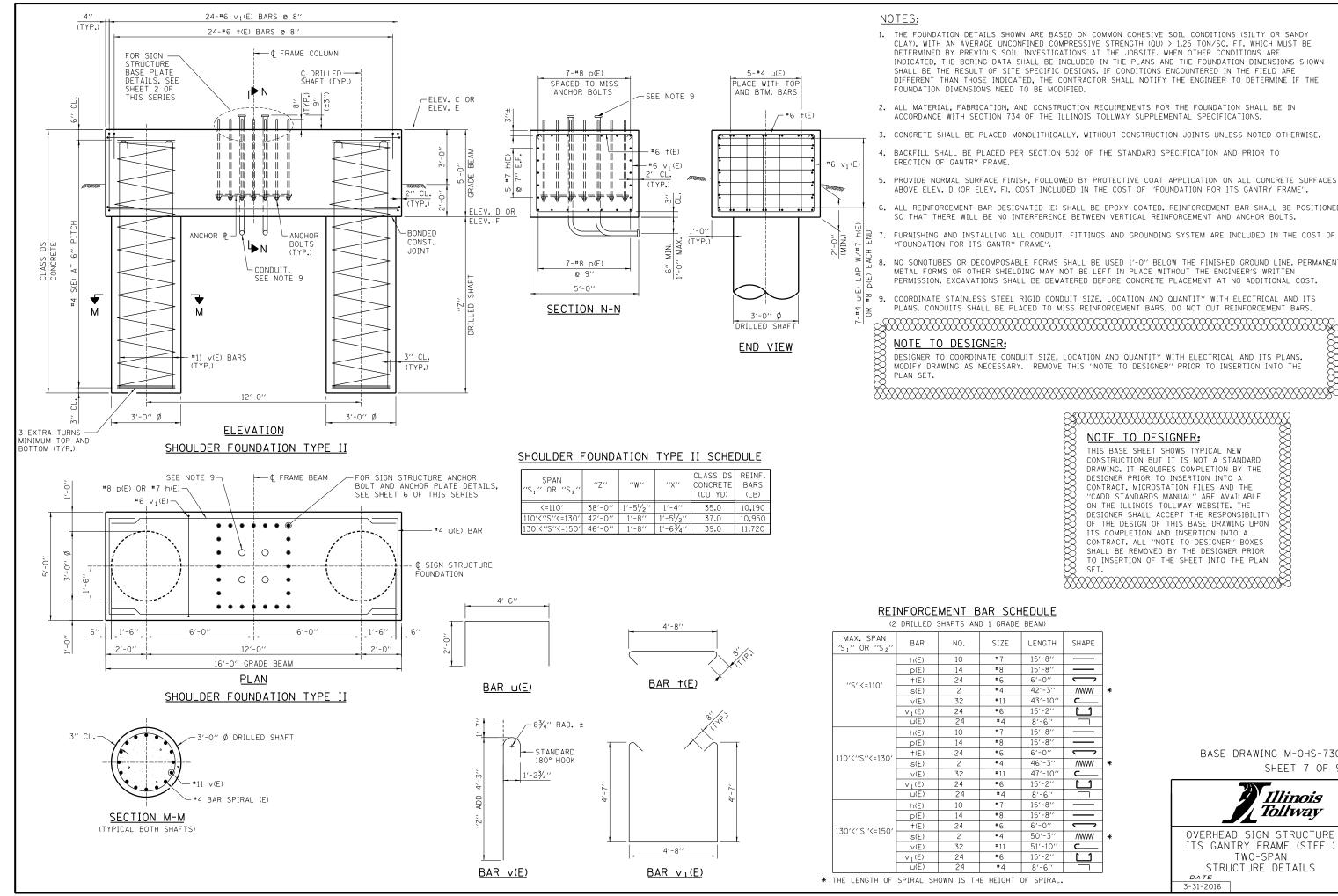
BOLT DETAIL SIGN BRACKET ROD NOT SHOWN FOR CLARITY BASE DRAWING M-OHS-730 SHEET 5 OF 9



OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) TWO-SPAN STRUCTURE DETAILS DATE 3-31-2016



| ED COMPRESSIVE STRE
BSITE. WHEN OTHER CO
SIONS SHOWN SHALL E | THE PRESENCE OF MOSTLY COHESIVE SOIL CONDITIONS (SILTY OR SANDY CLAY),
NGTH (QU) > 1.25 TON/SQ. FT. WHICH MUST BE DETERMINED BY PREVIOUS SOIL
NDITIONS ARE INDICATED, THE BORING DATA SHALL BE INCLUDED IN THE PLANS
WE THE RESULT OF SITE SPECIFIC DESIGNS. IF CONDITIONS ENCOUNTERED IN THE
E CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE IF THE FOUNDATION |
|--|--|
| , AND CONSTRUCTION
AY SUPPLEMENTAL SP | REQUIREMENTS FOR THE FOUNDATIONS SHALL BE IN ACCORDANCE WITH SECTION |
| | THOUT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE. |
| PER SECTION 502 OF | THE STANDARD SPECIFICATION AND PRIOR TO ERECTION OF GANTRY FRAME. |
| | PROTECTIVE COAT APPLICATION ON ALL CONCRETE SURFACES ABOVE ELEV. D (OR
DATION FOR ITS GANTRY FRAME''. |
| | E EPOXY COATED. REINFORCEMENT BAR SHALL BE POSITIONED SO THAT THERE
INFORCEMENT AND ANCHOR BOLTS. |
| ALL CONDUIT, FITTIN | IGS AND GROUNDING SYSTEM ARE INCLUDED IN THE COST OF "FOUNDATION FOR |
| | BE USED 1'-O" BELOW THE FINISHED GROUND LINE. PERMANENT METAL FORMS OR
THOUT THE ENGINEER'S WRITTEN PERMISSION. EXCAVATIONS SHALL BE DEWATERED
COST. |
| | E, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. CONDUITS SHALL
T CUT REINFORCEMENT BARS. |
| | |
| 'NOTE TO DÉSIGNER' | N AND QUANTITY WITH ELECTRICAL AND ITS PLANS. MODIFY DRAWING AS |
| | UTILIZE $\frac{1}{2}$ " POSITIONING PLATE AND TEMPORARY |
| <u>for ut, grin</u>
Bolt square
Before galv <i>i</i> | AND SMOOTH NUTS WITH LEVELING NUTS OR OTHER ENGINEER
AND SMOOTH APPROVED METHODS TO MAINTAIN ANCHOR BOLTS' |
| | CONTRACTOR'S PROPERTY. COST INCLUDED IN |
| BEAM | |
| IONALLY MAY
Four (4) | ⁵ 9 ⁻ 71 H H III / 2" POSITIONING P |
| ERATE BARS.
D TO MAINTAIN
PENDICULARITY. 9 | ¢ ANCHOR BOLT ALL THREAD = NC
(NATIONAL COARSE) |
| CHOR BOLT. | |
| ANCHOR | HEAVY HEX NUT &
WASHER (TYP.) |
| | 1″ ANCHOR 史 (NOT GALVANIZED) |
| 2 | PROVIDE 1 NUT PER BOLT. |
| | DEFORM THREAD OR USE CHEMICAL THREAD
LOCK TO SECURE. |
| ANC | ANCHOR BOLT DETAIL
HOR BOLTS SHALL CONFORM TO AASHTO M314 OR ASTM F1554 GRADE 55 |
| AND | MEET CHARPY V-NOTCH (CVN) ENERGY OF 15 LBFT. AT 40° F. GALVANIZE
ER 18" PER AASHTO M 232. NO WELDING SHALL BE PERMITTED ON ANCHOR |
| FRAME BEAM BOL | TS.
IS MINIMUM TO BE GALVANZIED. ENTIRE BOLT MAY BE GALVANIZED AT |
| CON | TRACTOR'S OPTION. |
| ANCHOR
DLT HOLE | SHOULDER FOUNDATION TYPE I TABLE |
| ANCHOR P | SPAN
"S ₁ " OR "S ₂ " "W" "X" "Z" "SD" "P" BAR NO.
s(E) ANCHOR
PITCH BOLT |
| | <pre><=110' 1'-5¹/₂'' 1'-4'' 28'-0'' 3'-6'' 9'' 6'' 18
110'<''S''<=130' 1'-8'' 1'-5¹/₂'' 28'-0'' 3'-6'' 9'' 5'' 22</pre> |
| | $\frac{110^{-1}(5^{-1},5^{$ |
| NOTE TO D | ESIGNER BASE DRAWING M-OHS-730 |
| THIS BASE SHEE | T SHOWS TYPICAL NEW SHEET 6 OF 9 |
| 🛇 DRAWING. IT RE | SUT IT IS NOT A STANDARD
DUIRES COMPLETION BY THE
TO INSERTION INTO A |
| 🛛 📿 CONTRACT. MICF | TO INSERTION INTO A
OSTATION FILES AND THE
OS MANUAL" ARE AVAILABLE
S TOLLWAY WEBSITE. THE |
| 🛛 🔀 DESIGNER SHALL | ACCEPT THE RESPONSIBILITY
OF THIS BASE DRAWING UPON |
| CONTRACT. ALL | I AND INSERTION INTO A ITS GANTRY FRAME (STEEL) |
| | F THE SHEET INTO THE PLAN |
| | DATE 3-31-2016 |
| | |



1. THE FOUNDATION DETAILS SHOWN ARE BASED ON COMMON COHESIVE SOIL CONDITIONS (SILTY OR SANDY CLAY), WITH AN AVERAGE UNCONFINED COMPRESSIVE STRENGTH (QU) > 1.25 TON/SO. FT. WHICH MUST BE DETERMINED BY PREVIOUS SOIL INVESTIGATIONS AT THE JOBSITE. WHEN OTHER CONDITIONS ARE INDICATED, THE BORING DATA SHALL BE INCLUDED IN THE PLANS AND THE FOUNDATION DIMENSIONS SHOWN SHALL BE THE RESULT OF SITE SPECIFIC DESIGNS. IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN THOSE INDICATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE IF THE

2. ALL MATERIAL, FABRICATION, AND CONSTRUCTION REQUIREMENTS FOR THE FOUNDATION SHALL BE IN ACCORDANCE WITH SECTION 734 OF THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.

3. CONCRETE SHALL BE PLACED MONOLITHICALLY, WITHOUT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.

BACKFILL SHALL BE PLACED PER SECTION 502 OF THE STANDARD SPECIFICATION AND PRIOR TO

PROVIDE NORMAL SURFACE FINISH, FOLLOWED BY PROTECTIVE COAT APPLICATION ON ALL CONCRETE SURFACES ABOVE ELEV. D (OR ELEV. F). COST INCLUDED IN THE COST OF "FOUNDATION FOR ITS GANTRY FRAME".

ALL REINFORCEMENT BAR DESIGNATED (E) SHALL BE EPOXY COATED. REINFORCEMENT BAR SHALL BE POSITIONED SO THAT THERE WILL BE NO INTERFERENCE BETWEEN VERTICAL REINFORCEMENT AND ANCHOR BOLTS.

7. FURNISHING AND INSTALLING ALL CONDUIT, FITTINGS AND GROUNDING SYSTEM ARE INCLUDED IN THE COST OF

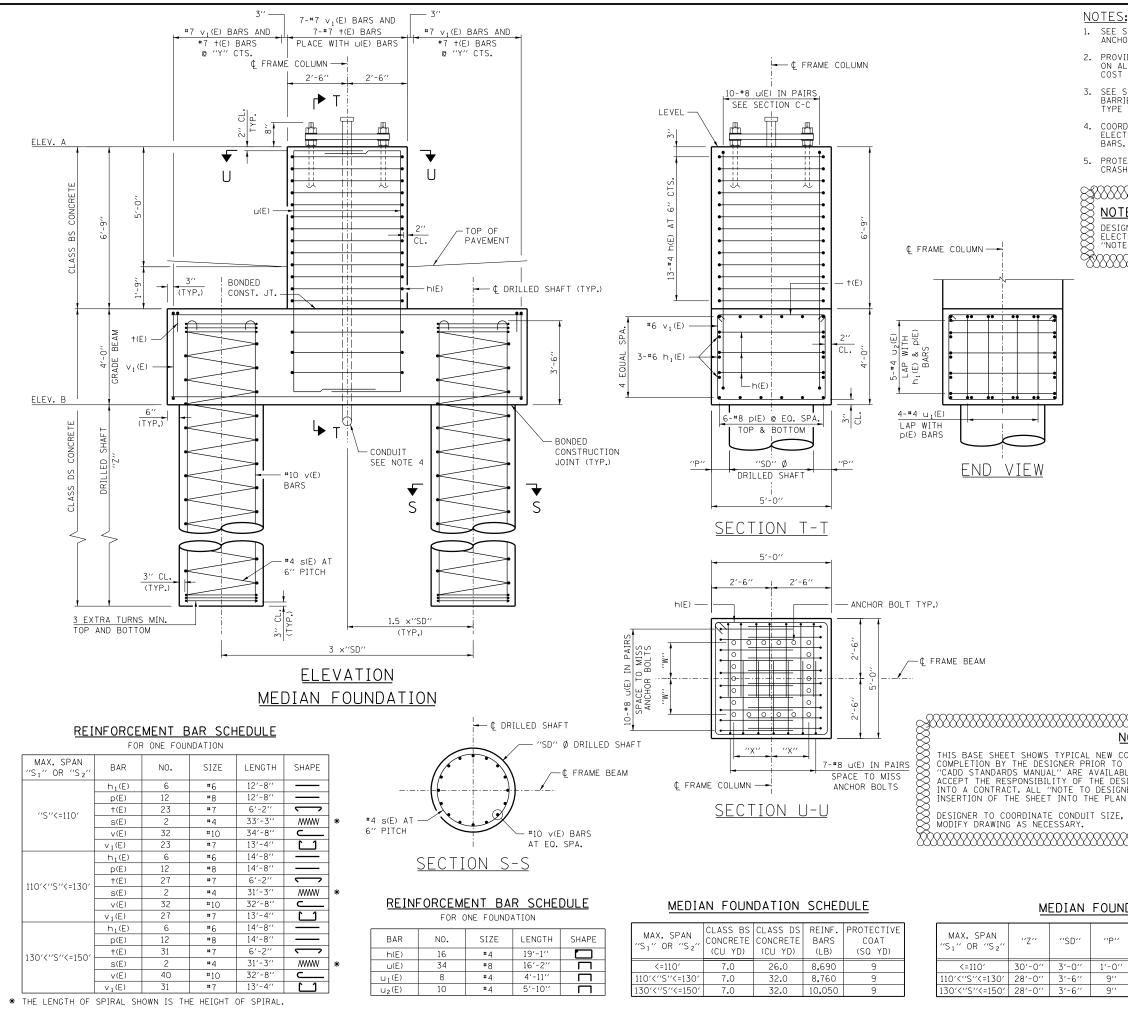
NO SONOTUBES OR DECOMPOSABLE FORMS SHALL BE USED 1'-O" BELOW THE FINISHED GROUND LINE. PERMANENT METAL FORMS OR OTHER SHIELDING MAY NOT BE LEFT IN PLACE WITHOUT THE ENGINEER'S WRITTEN PERMISSION. EXCAVATIONS SHALL BE DEWATERED BEFORE CONCRETE PLACEMENT AT NO ADDITIONAL COST.

COORDINATE STAINLESS STEEL RIGID CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. CONDUITS SHALL BE PLACED TO MISS REINFORCEMENT BARS. DO NOT CUT REINFORCEMENT BARS.

DESIGNER TO COORDINATE CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. MODIFY DRAWING AS NECESSARY. REMOVE THIS "NOTE TO DESIGNER" PRIOR TO INSERTION INTO THE

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 BASE DRAWING 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.

| | AR SUR | EDULE | | | |
|---|-------------|------------|-----------------|---|--------------------------|
| N | D 1 GRADE | BEAM) | | | |
| | SIZE | LENGTH | SHAPE | | |
| | #7 | 15'-8'' | | | |
| | # 8 | 15'-8'' | | | |
| | # 6 | 6'-0'' | ļ | | |
| | #4 | 42'-3'' | MWW | * | |
| | #11 | 43'-10'' | | | |
| | # 6 | 15'-2'' | Ľ | | |
| | #4 | 8'-6'' | | | |
| | #7 | 15′-8′′ | | | |
| | # 8 | 15'-8'' | | | |
| | #6 | 6'-0'' | | | BASE DRAWING M-OHS-730 |
| | #4 | 46'-3'' | MMW | * | SHEET 7 OF 9 |
| | # 11 | 47'-10'' | | | SHEET 1 01 5 |
| | #6 | 15'-2'' | <u> </u> | | |
| | # 4 | 8'-6'' | | | Illinois |
| | # 7 | 15'-8'' | | | Illinois
Tollway |
| | #8 | 15'-8'' | | | |
| | #6 | 6'-0'' | $\overline{\ }$ | | |
| | #4 | 50'-3'' | MWW | * | OVERHEAD SIGN STRUCTURE |
| | #11 | 51'-10'' | | | ITS GANTRY FRAME (STEEL) |
| | #6 | 15'-2'' | <u> </u> | | TWO-SPAN |
| | #4 | 8'-6'' | | | STRUCTURE DETAILS |
| Ή | E HEIGHT (| OF SPIRAL. | | | DATE |
| | | | | | 3-31-2016 |



1. SEE SHEET 6 OF THIS SERIES FOR FOUNDATION NOTES, DESIGN CRITERIA, ANCHOR BOLT DETAIL AND ANCHOR PLATE DETAIL.

 PROVIDE NORMAL SURFACE FINISH, FOLLOWED BY PROTECTIVE COAT APPLICATION ON ALL CONCRETE SURFACES ABOVE TOP OF GRADE BEAM. COST INCLUDED IN THE COST OF "FOUNDATION FOR ITS GANTRY FRAME".

3. SEE SHEET 9 OF THIS SERIES FOR CONCRETE MEDIAN BARRIER TRANSITION. COST OF BARRIER TRANSITION INCLUDED IN COST OF "CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-F".

4. COORDINATE STAINLESS STEEL RIGID CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. CONDUITS SHALL BE PLACED TO MISS REINFORCEMENT BARS. DO NOT CUT REINFORCEMENT BARS.

5. PROTECTIVE COAT SHALL BE APPLIED TO TRAFFIC AND TOP FACES OF CONCRETE CRASHWALL.

NOTE TO DESIGNER: DESIGNER TO COORDINATE CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. MODIFY DRAWING AS NECESSARY. REMOVE THIS "NOTE TO DESIGNER" PRIOR TO INSERTION INTO THE PLAN SET. NOTE TO DESIGNER: DESIGNER TO COORDINATE CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. MODIFY DRAWING AS NECESSARY. REMOVE THIS "NOTE TO DESIGNER" PRIOR TO INSERTION INTO THE PLAN SET. -RAD. 61/2"± '<u>'N''</u> STANDARD 180° HOOK BAR u(E) BAR u1(E) BAR V(E) BAR u₂(E) ''M'' ''N'' BAR - (TYP.) 10'-2'' u(E) 3'-0'' 3'-7" u1(E) 8′′ 4'-6'' u₂(E) 8″ BAR +(E) 4'-8'' 4'-8'' BAR $V_1(E)$ BAR h(E) 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 BASE DRAWING 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. DESIGNER TO COORDINATE CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. MODIFY DRAWING AS NECESSARY. BASE DRAWING M-OHS-730 SHEET 8 OF 9 MEDIAN FOUNDATION TABLE

| "P" | ~w~ | "X" | ···Y·· | NO.
ANCHOR
BOLT | |
|--------|-----------|-----------|--------|-----------------------|--|
| 1'-0'' | 1'-51/2'' | 1'-4'' | 6′′ | 18 | |
| 9'' | 1'-8'' | 1'-51/2'' | 6′′ | 22 | |
| 9'' | 1'-8'' | 1'-6¾'' | 5″ | 22 | |
| | | | | | |

| - | | ~ | | | | |
|-------------------|----------|------------|--|--|--|--|
| OVERHEA | D SIGN S | TRUCTURE | | | | |
| ITS GAN | TRY FRAM | IE (STEEL) | | | | |
| TWO-SPAN | | | | | | |
| STRUCTURE DETAILS | | | | | | |
| DATE | | | | | | |
| 3-31-2016 | | | | | | |

