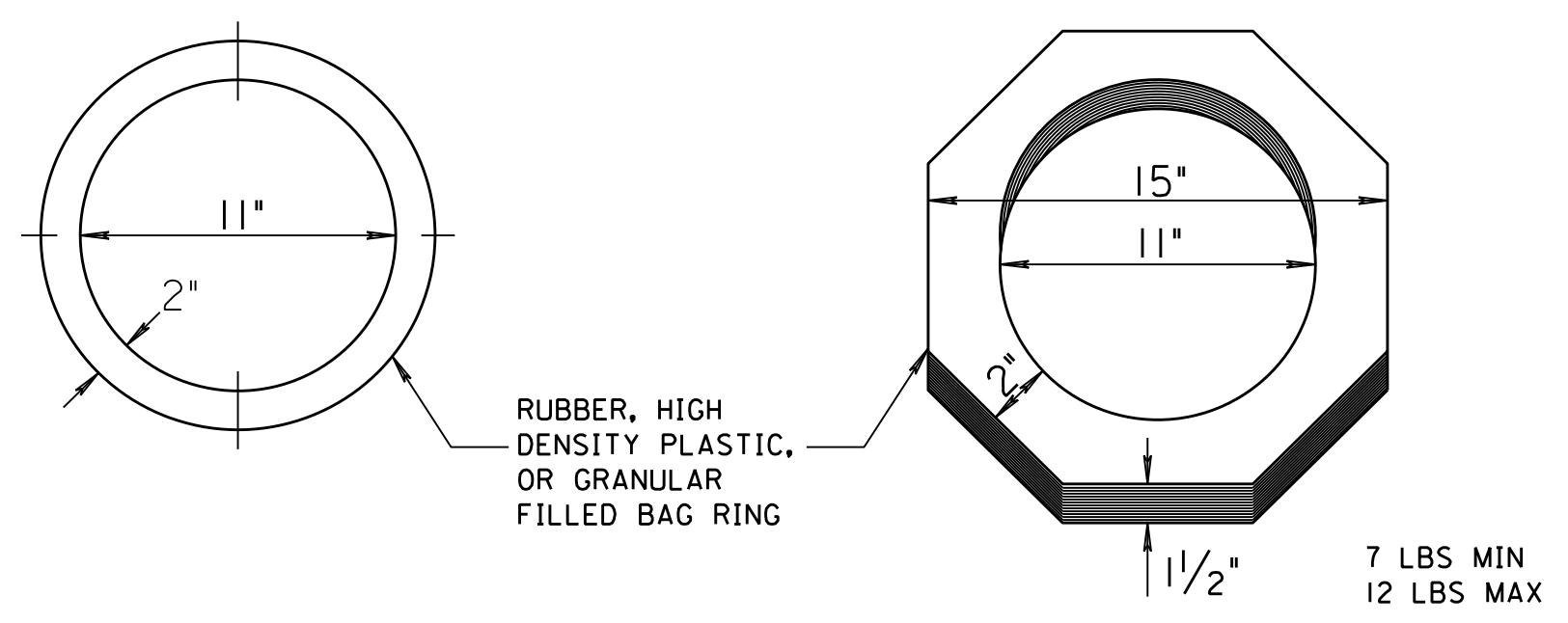
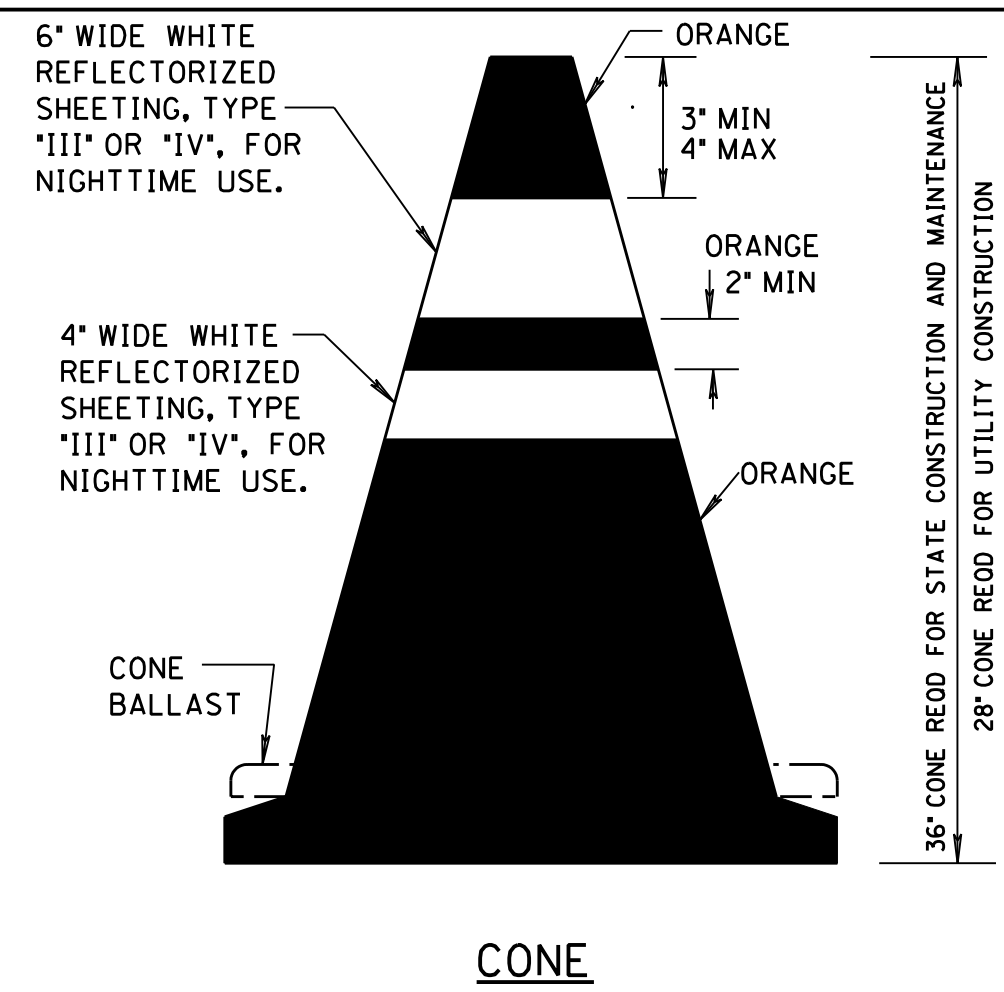


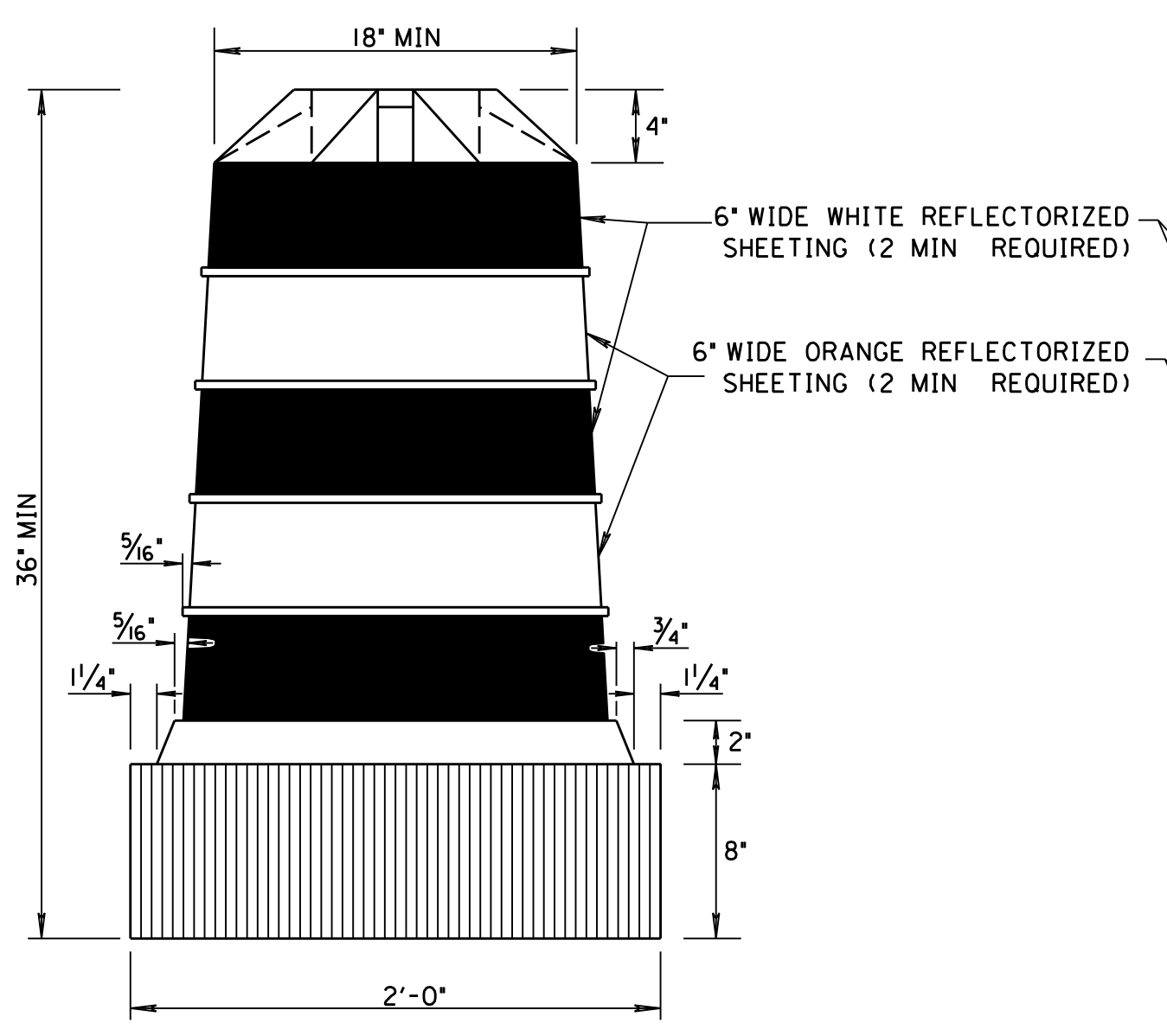
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO



BALLAST FOR CONE
 RUBBER, HIGH DENSITY PLASTIC, OR GRANULAR FILLED BAG RING
 BALLAST WILL BE REQUIRED ONLY FOR SPECIAL CONDITIONS. ALL DIMENSIONS ARE APPROXIMATE.

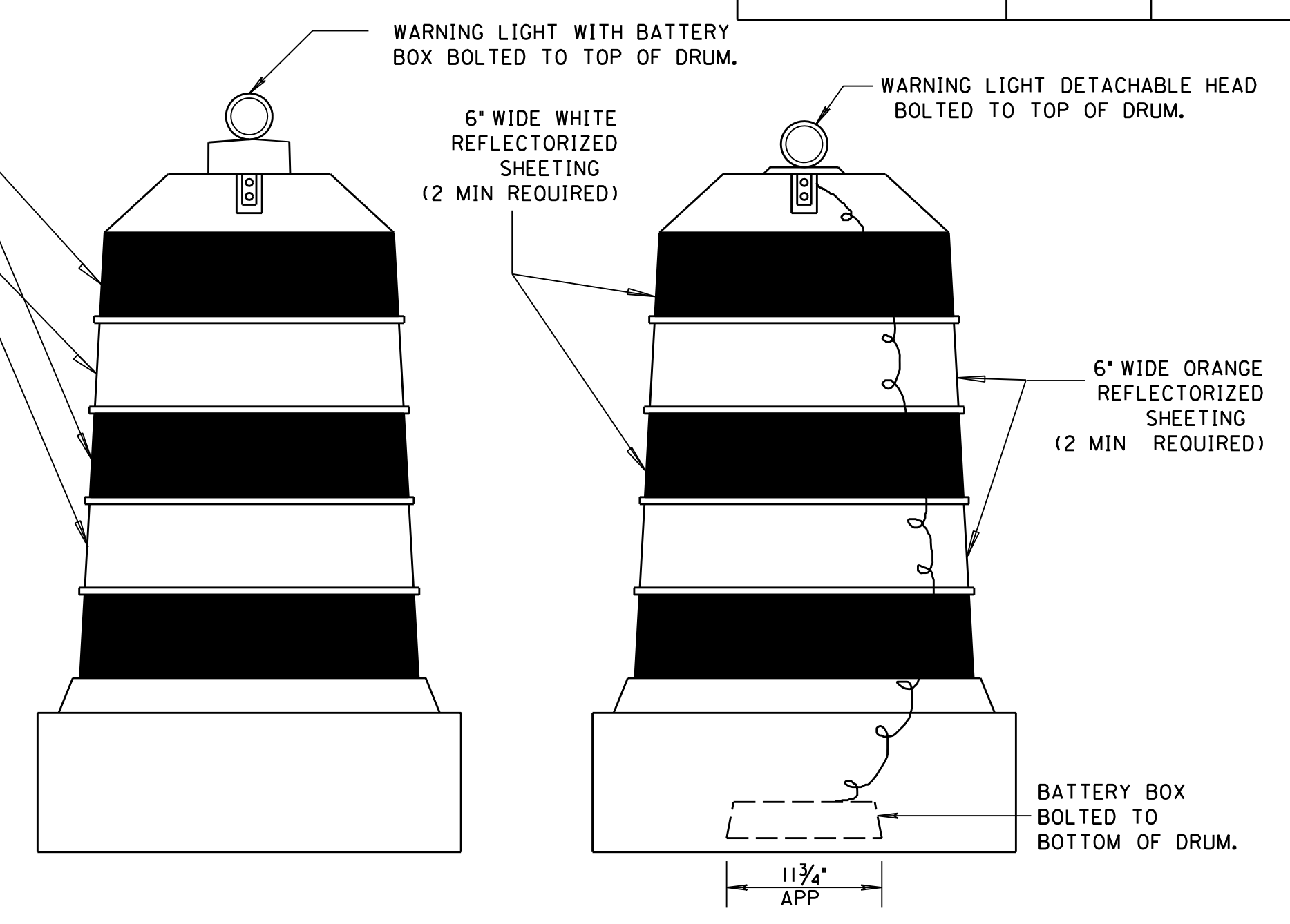


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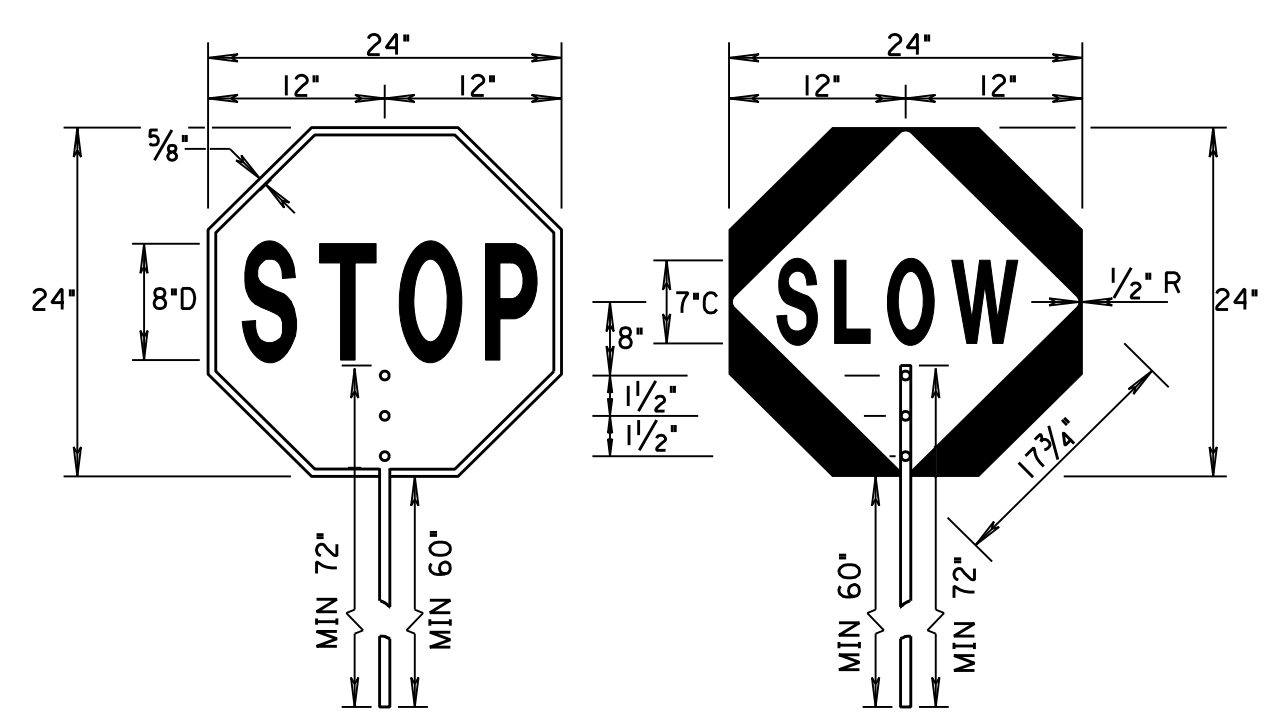


TYPE "B"

CHANNELIZING DRUM DESIGN
 CHANNELIZING DRUMS SHALL BE FLEXIBLE PLASTIC, SET ON END AND COLOR SHALL BE ORANGE AND WHITE, DRUMS SHALL BE REFLECTORIZED FOR USE AT NIGHT AND SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT ADVANCED WARNING SIGNS. FLASHING WARNING LIGHT SHOULD BE ADDED WHEN DRUMS ARE USED SINGLY, AND STEADY WARNING LIGHTS WHEN USED IN SERIES. DRUMS SHOULD NOT BE WEIGHTED TO THE EXTENT THAT WOULD MAKE THEM HAZARDOUS TO MOTORISTS.

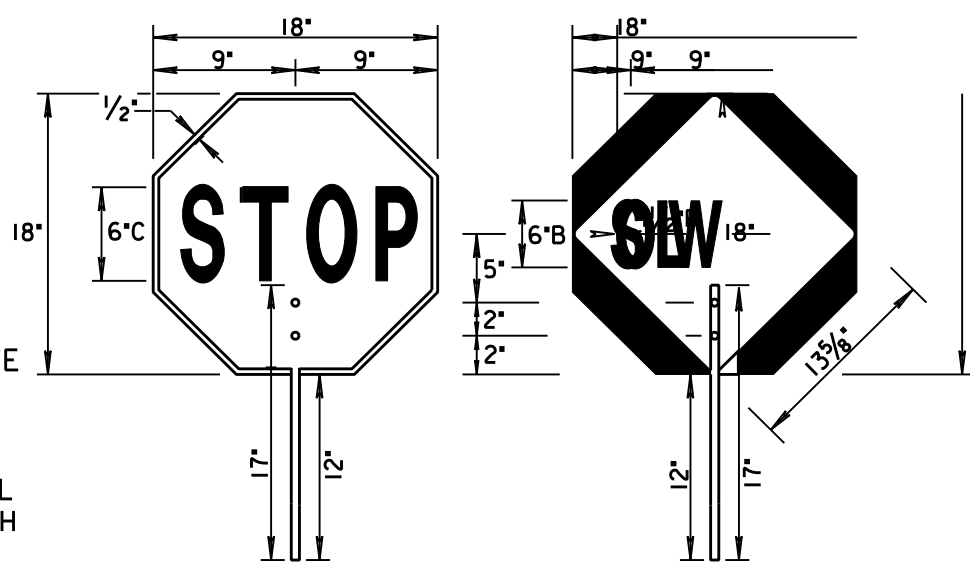


EXAMPLES OF WARNING LIGHT ATTACHED TO DRUM



STAFF MOUNTED PADDLES

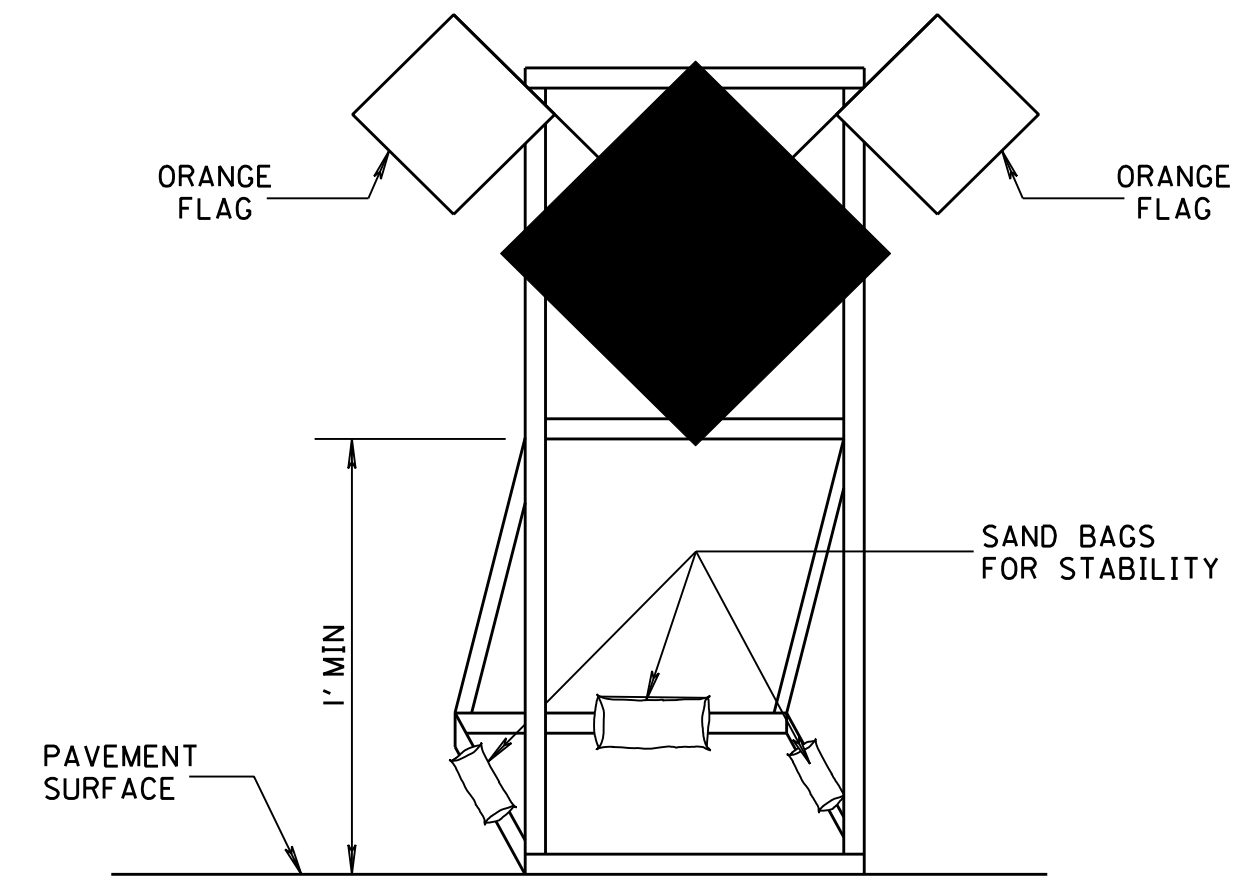
THE STAFF MOUNTED AND HAND HELD STOP/SLOW PADDLES SHALL BE FABRICATED USING TYPE 'III' OR 'IV' REFLECTIVE SHEETING ON BOTH SIDES. THE STOP SIGN SHALL HAVE A RED BACKGROUND WITH WHITE LEGEND AND BORDER. THE SLOW SIGN SHALL HAVE AN ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.



HAND HELD PADDLES

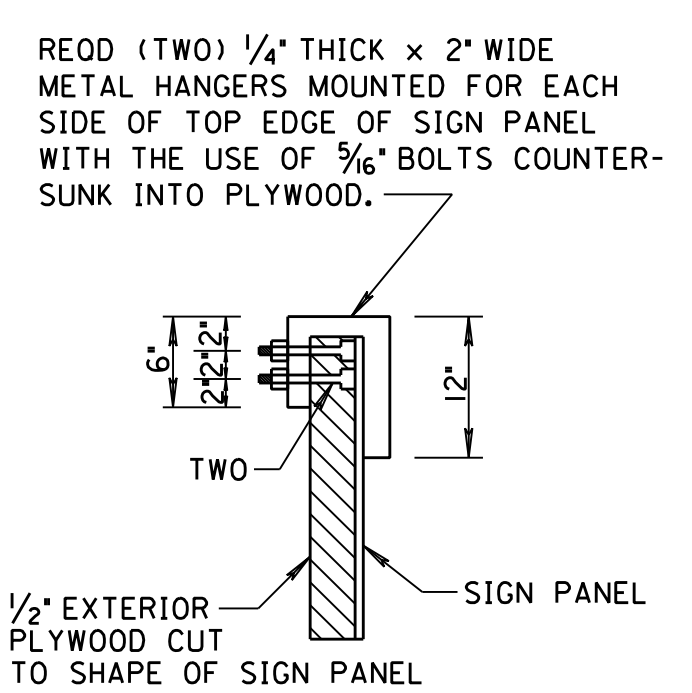
REFLECTORIZED SHEETING DESIGN

REFLECTIVE SHEETING USED ON CHANNELIZING DRUMS SHALL BE TYPE 'III' OR 'IV', AS DESCRIBED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 880.



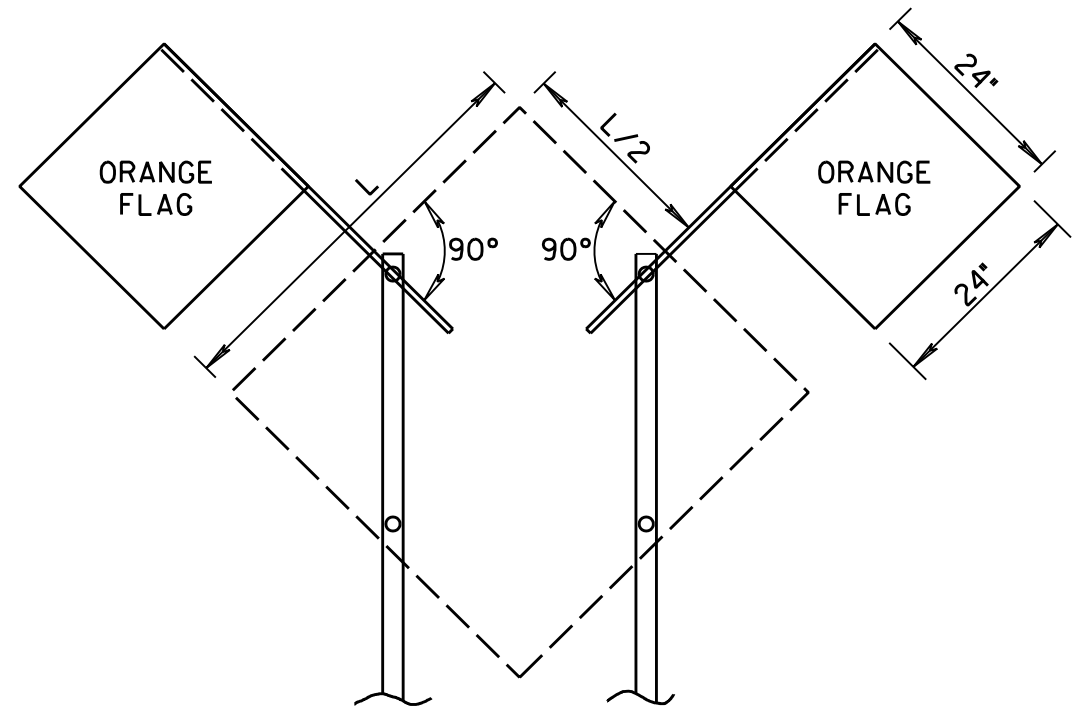
TYPICAL SIGN INSTALLATION (TEMPORARY SUPPORTS)

NOTE: FRAME TO BE OF 2" x 4" WOOD, 2" MIN DIA SCHEDULED 40 PVC PIPE OR MIN 1 1/2" x 1 1/2" GA GALVANIZED TUBULAR STEEL AND DIMENSIONED TO PROVIDE A STABLE SUPPORT SATISFACTORY TO THE DEPARTMENT. IF WOOD FRAME IS PAINTED, COLOR SHALL BE WHITE. ON SLOPED SURFACES, THE LOW SIDE OF THE SUPPORT SHALL BE ADJUSTED SO THAT THE SIGN LEGEND REMAINS HORIZONTAL. TEMPORARY SUPPORTS MAY BE USED ONLY WHERE SIGNS ARE TO BE MOVED FREQUENTLY FROM ONE LOCATION TO ANOTHER DURING THE COURSE OF THE PROJECT. STATIONARY SUPPORTS WILL BE USED AT ALL OTHER LOCATIONS AND SHALL BE OF EITHER TIMBER (TREATED OR PAINTED) OF NOT LESS THAN 4" x 4" CROSS SECTION OR METAL (MIN. #2 'U' CHANNEL OR EQUIVALENT). THE CONTRACTOR MAY SUBMIT WRITTEN ALTERNATES TO THIS TYPICAL INSTALLATION SCHEME FOR CONSIDERATION OF APPROVAL BY THE ENGINEER.



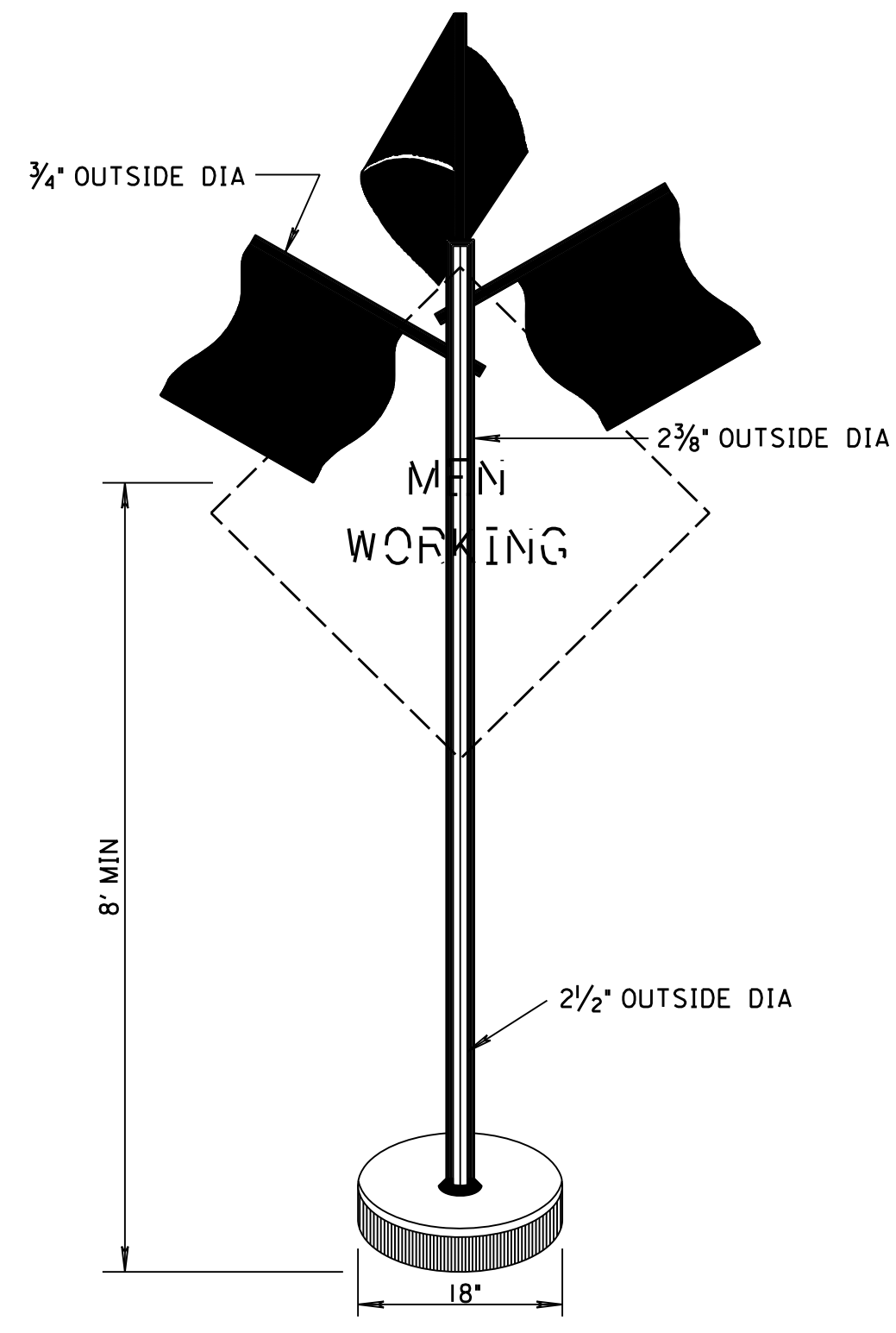
INSTALLATION OF SIGN COVERING MATERIAL DURING NON-USE

EXPOSED SURFACE MAY BE PAINTED. IF PAINTED, COLOR SHALL BE BLACK. ALTERNATE TYPES OF COVERING MATERIAL AND METHODS OF INSTALLATION MAY BE SUBMITTED BY THE CONTRACTOR FOR CONSIDERATION OF APPROVAL BY THE DEPARTMENT.



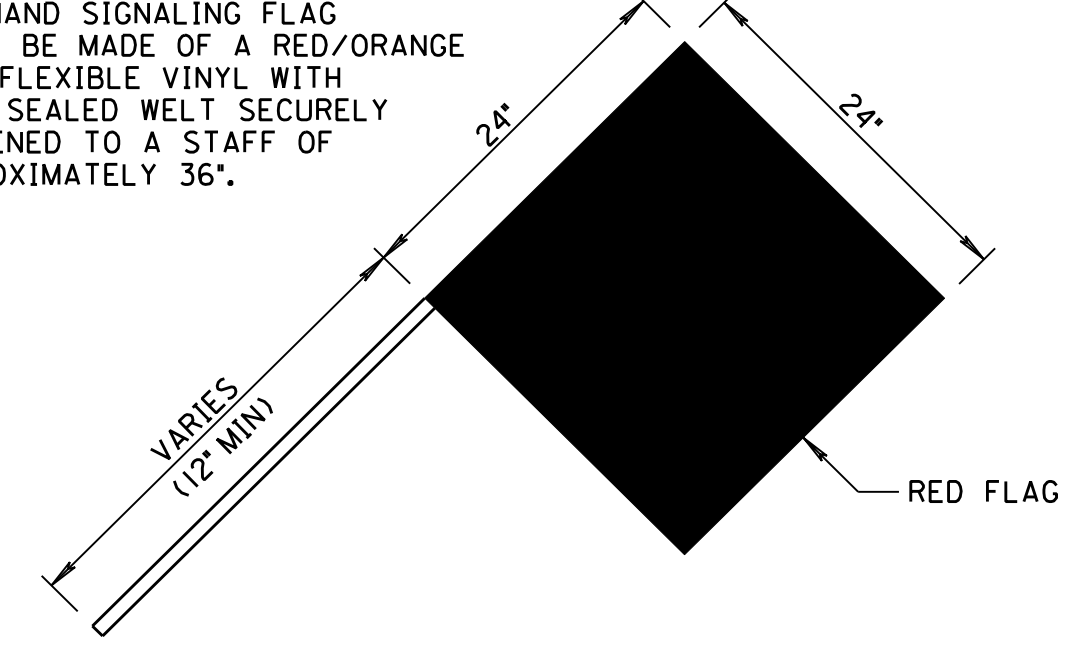
WARNING FLAGS MOUNTING ON CONSTRUCTION SIGNS

WARNING FLAG UNIT SHOWN IS ONLY A GUIDE AND OTHER VARIATIONS WILL BE ACCEPTED. FLAGSTAFF IS ADJUSTABLE FROM 5' TO 9' IN HEIGHT, FLAGS ARE 24" x 24" IN SIZE AND FLAG UNIT COLOR SHALL BE ORANGE OR FLUORESCENT RED/ORANGE IN COLOR. FLAG UNIT SHOWN HAS ALL PARTS, MADE OF ONE OF THE NEW PLASTICS, IS LIGHT AND CAN BE DISASSEMBLED FOR EASY HANDLING AND PORTABILITY. ALSO, BASE CAN BE FILLED WITH BALLAST FOR GREATER STABILITY. FLAG UNIT CAN BE USED WITH 'MEN WORKING' SIGN ATTACHED. SIGN SIZES SHALL BE 30", 36", OR 48".



WARNING FLAG UNIT

THE HAND SIGNALING FLAG SHALL BE MADE OF A RED/ORANGE SEMI-FLEXIBLE VINYL WITH HEAT-SEALABLE WELT SECURELY FASTENED TO A STAFF OF APPROXIMATELY 36".



HAND SIGNALING FLAG

FLAGS SHOULD ONLY BE USED UNDER EMERGENCY CONDITIONS, OR AT A SPOT LOCATION WHICH CAN BEST BE CONTROLLED BY A SINGLE FLAGGER USING A FLAG.

--SPECIFICATIONS--
 CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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- REVISIONS
1. Changed sheeting to Type III on paddles and removed lower two flags on flag iron. 07-18-95 by C.J.S.
 2. Added Type II Reflective Sheeting as an option on drums. 05-09-97 by C.J.S.
 3. Changed requirement for 6 inch wide orange reflectorized sheeting (3 min) on channelizing drums to 2 min as requested by Maintenance Bureau 08-18-97 by C.J.S.
 4. Changed to Type III Reflective sheeting on 02-02-01 J.F.T.
 5. Added Drum w/ Battery Bolted Warning Light on 09-27-10 by J.F.T.

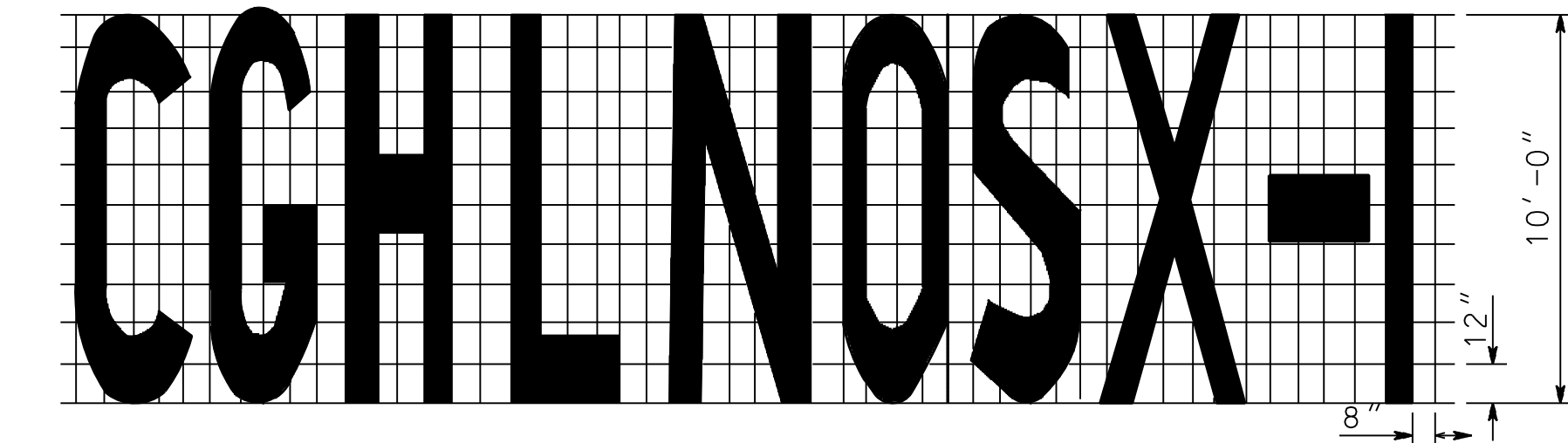
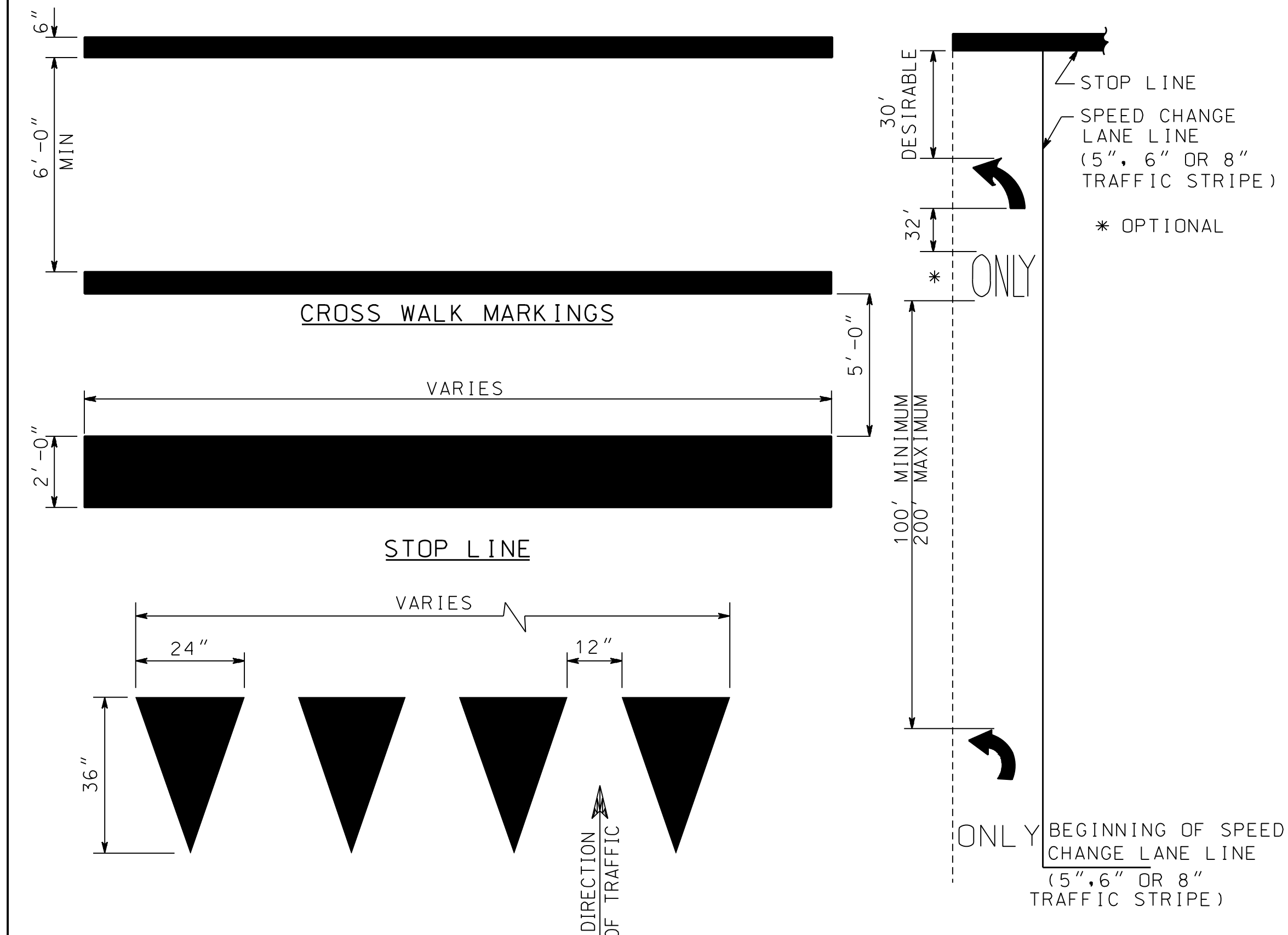
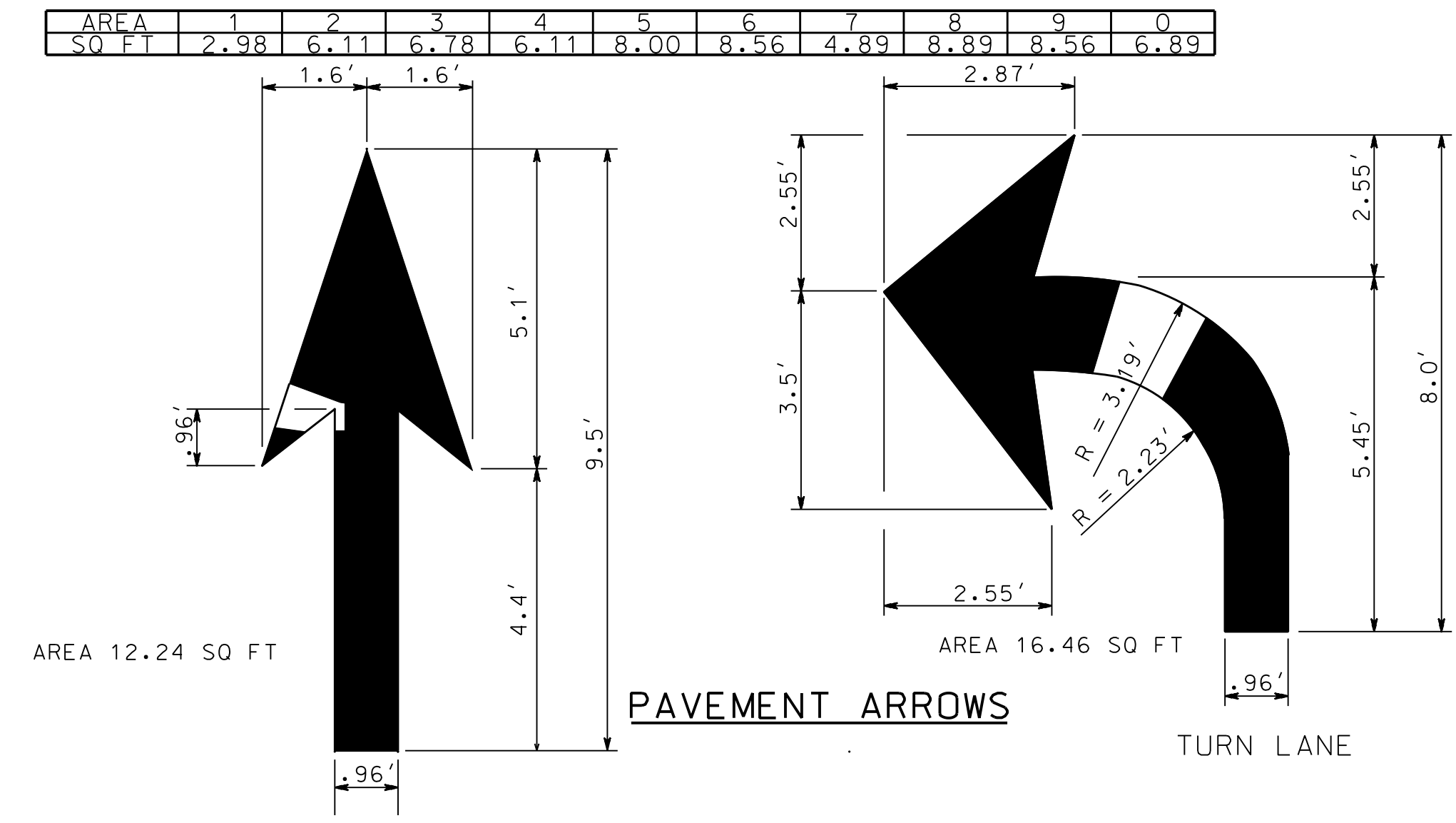
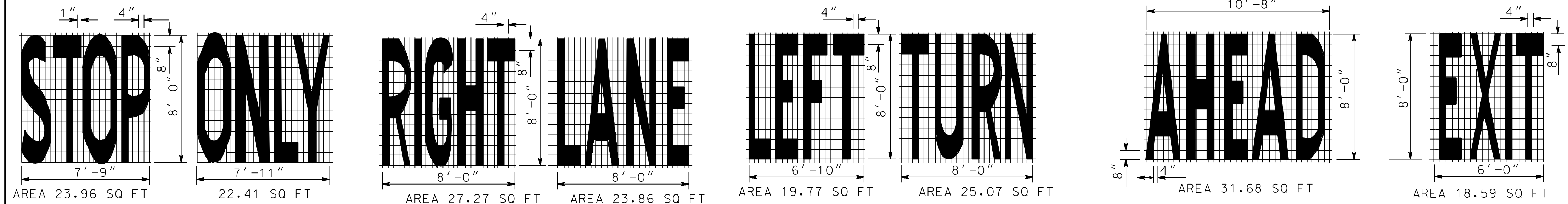
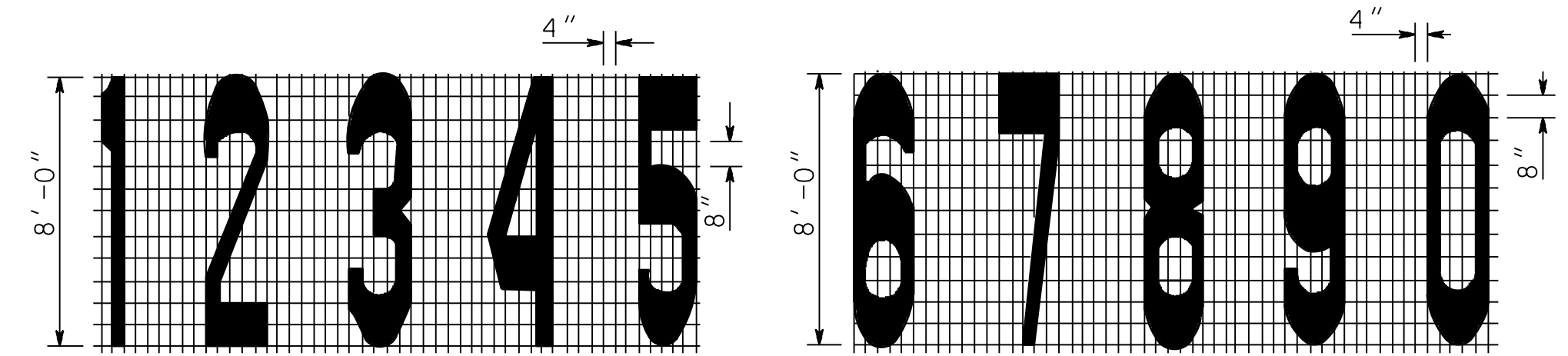
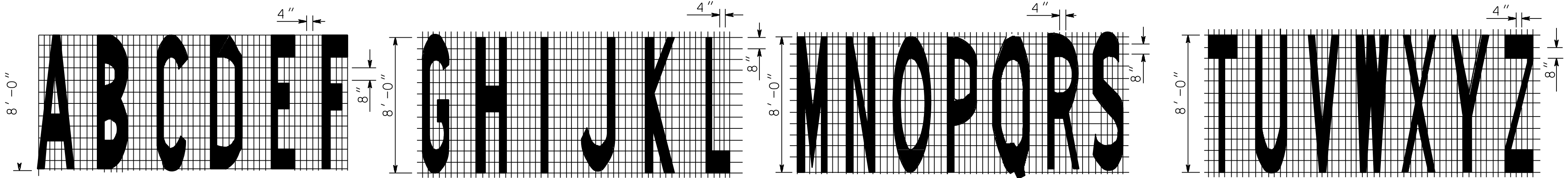
ALABAMA DEPARTMENT OF TRANSPORTATION
 1409 COLISEUM BOULEVARD
 MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CHANNELIZATION DEVICES

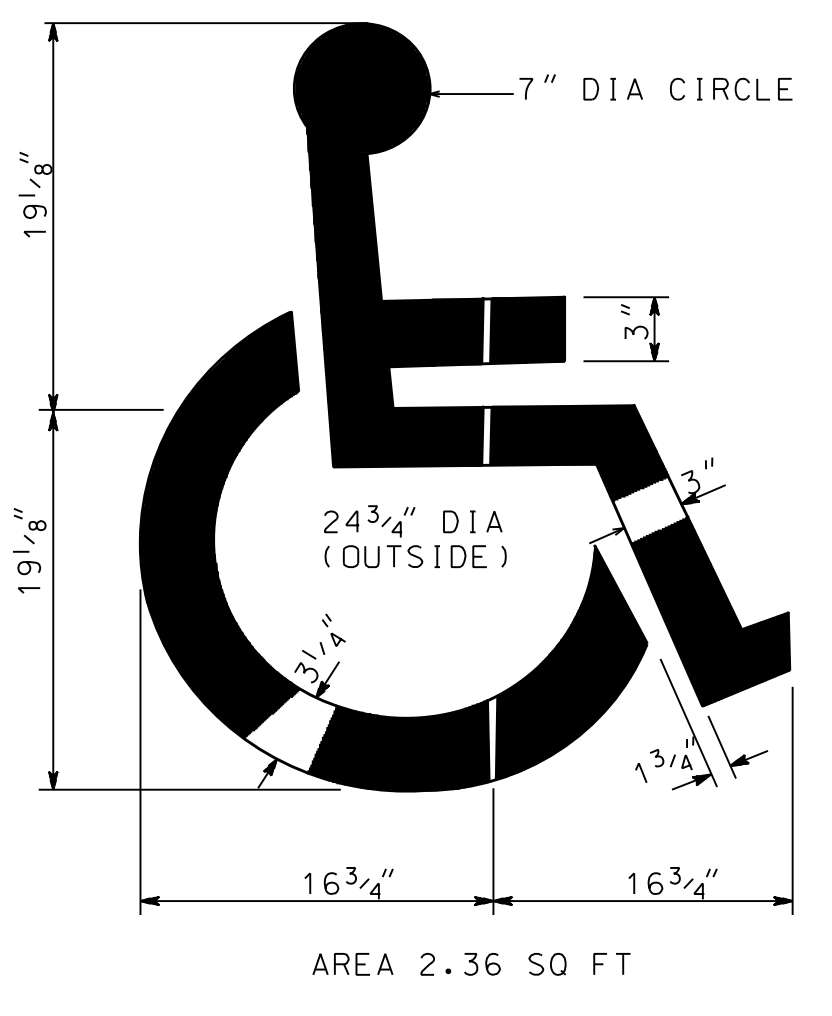
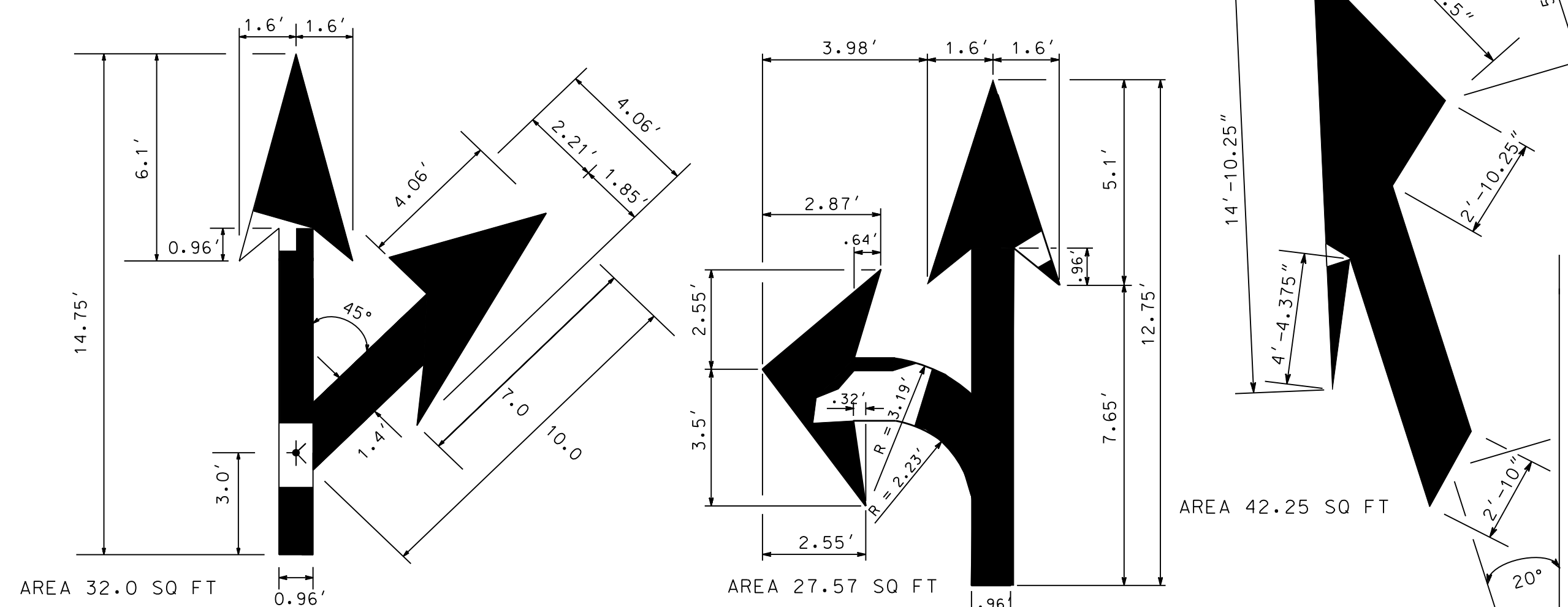
Bureau Std Engr: L.V.S.L.
 DRAWN BY: DATE DRAWN: 11-05-90

SPECIAL DRAWING NO
TCD-100 INDEX NO
1045

NOT TO SCALE



SCHOOL PAVEMENT LEGENDS FOR TWO LANE TRAFFIC



HANDICAP PAVMT MARKING SYMBOL

- GENERAL NOTES
- ALL LEGENDS AND MARKINGS SHALL CONFORM TO THE MUTCD.
 - THE AREA SHOWN FOR MARKINGS AND LEGENDS ARE APPROXIMATE AND ARE PROVIDED FOR ESTIMATING PURPOSES ONLY.
 - THE FIRST TURN LANE LEGEND SHALL BE LOCATED ADJACENT TO THE BEGINNING OF THE SPEED CHANGE LANE LINE.
 - ALL LEGENDS AND MARKINGS SHALL BE WHITE IN COLOR.
 - ALL LETTERS OF THE ALPHABET AND NUMERALS SHALL BE CLASSIFIED AS LEGENDS. ALL OTHERS AS MARKINGS.

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REVISIONS

- Added Yield Line and changed width of ONLY to 7'-11", 12-12-97 by C.J.S.
- Changed Channelizing Line to Channelizing Stripe 6" or 8" Traffic Stripe on 09-20-00 by J.F.T.
- Changed Channelizing Stripe to 5'-6" or 8" Traffic Stripe on 07-12-07 by W.W.A.
- Changed Channelizing Line to Speed Change Lane Line 08-08-07 by W.W.A.
- Added Lane Reduction, Optional Turn Lane & Optional Exit Lane Arrows and Exit Legend on 08-05-08 by W.W.A.

Bureau Std Engr: L.V.S.
DRAWN BY: _____ DATE DRAWN: 11-06-91

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

PAVEMENT LEGENDS AND MARKINGS DETAILS

SPECIAL DRAWING NO: TCM-703

INDEX NO: 1049

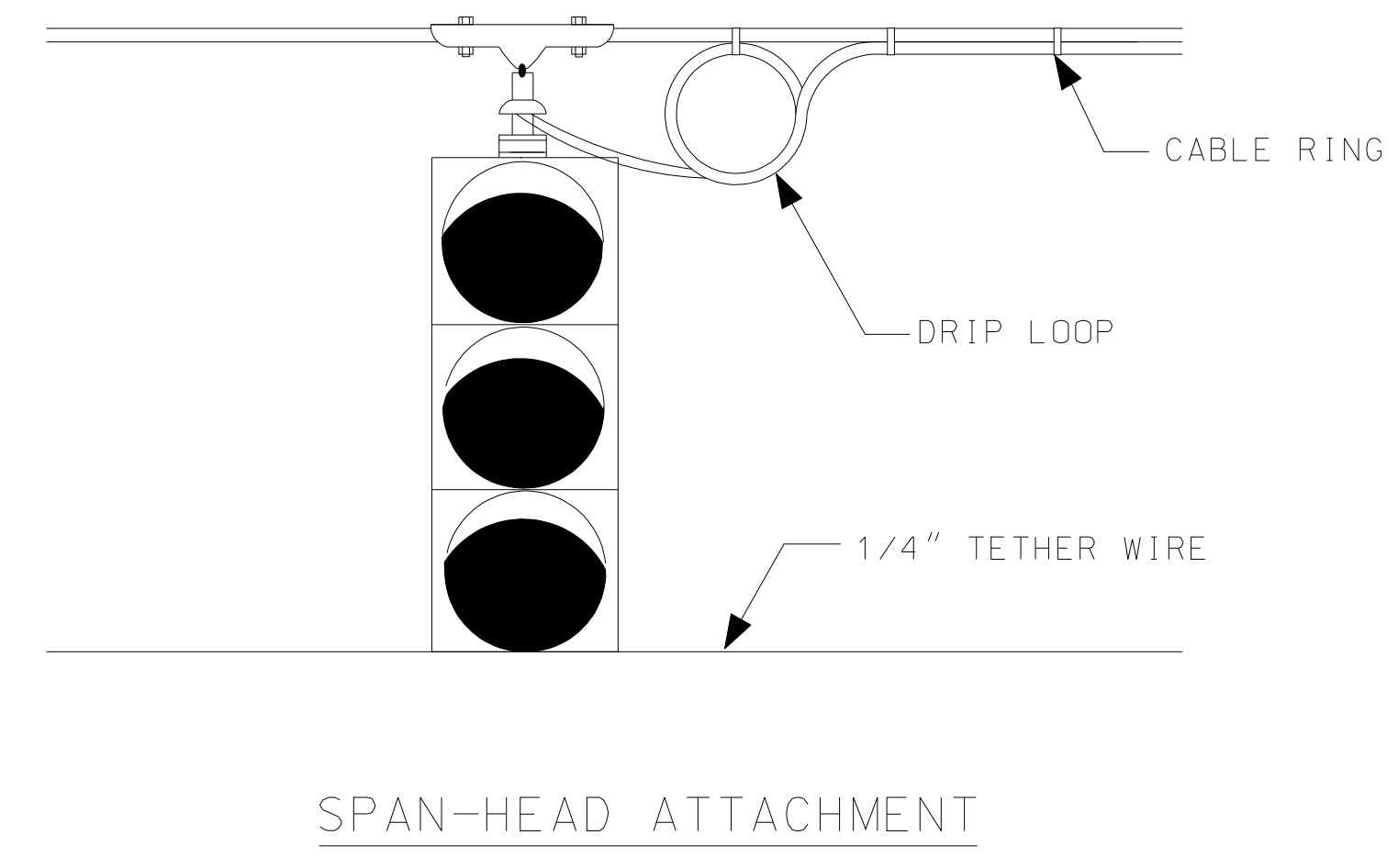
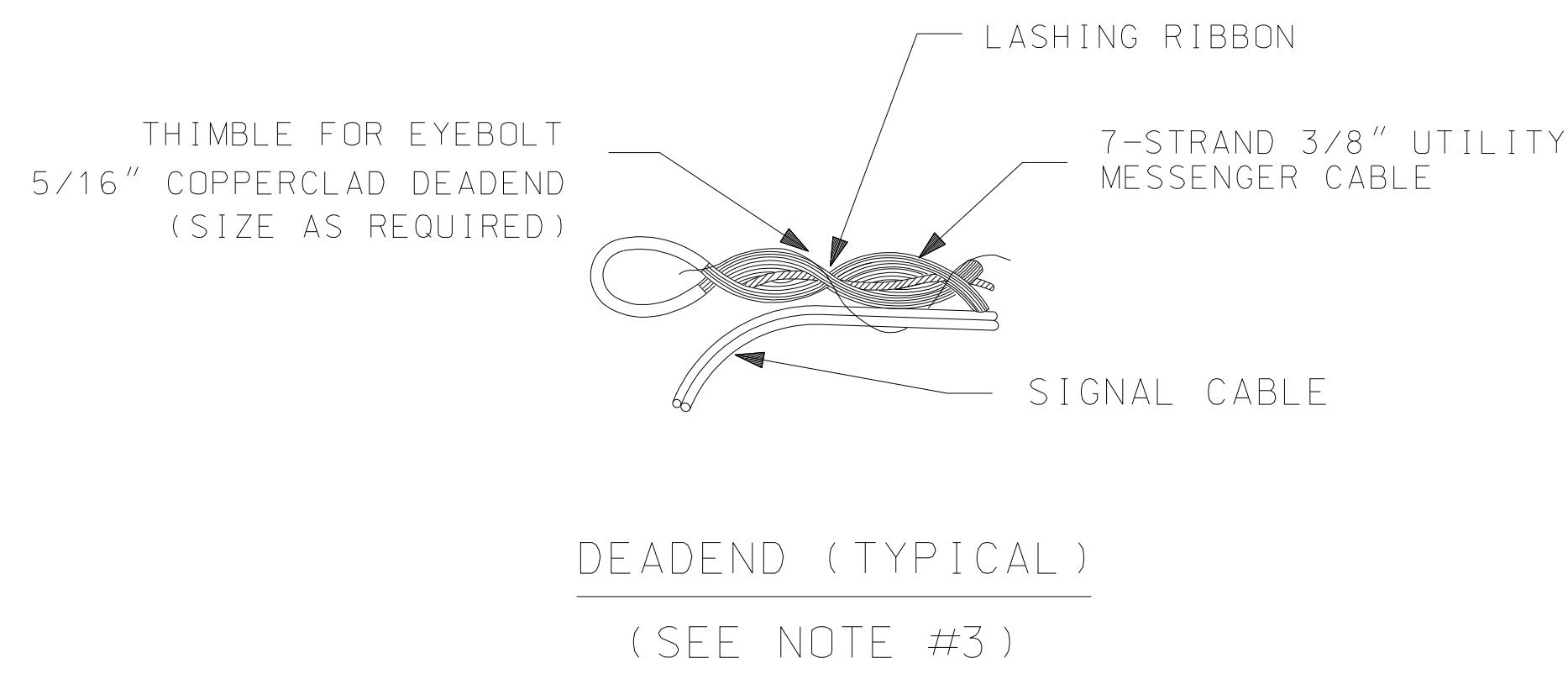
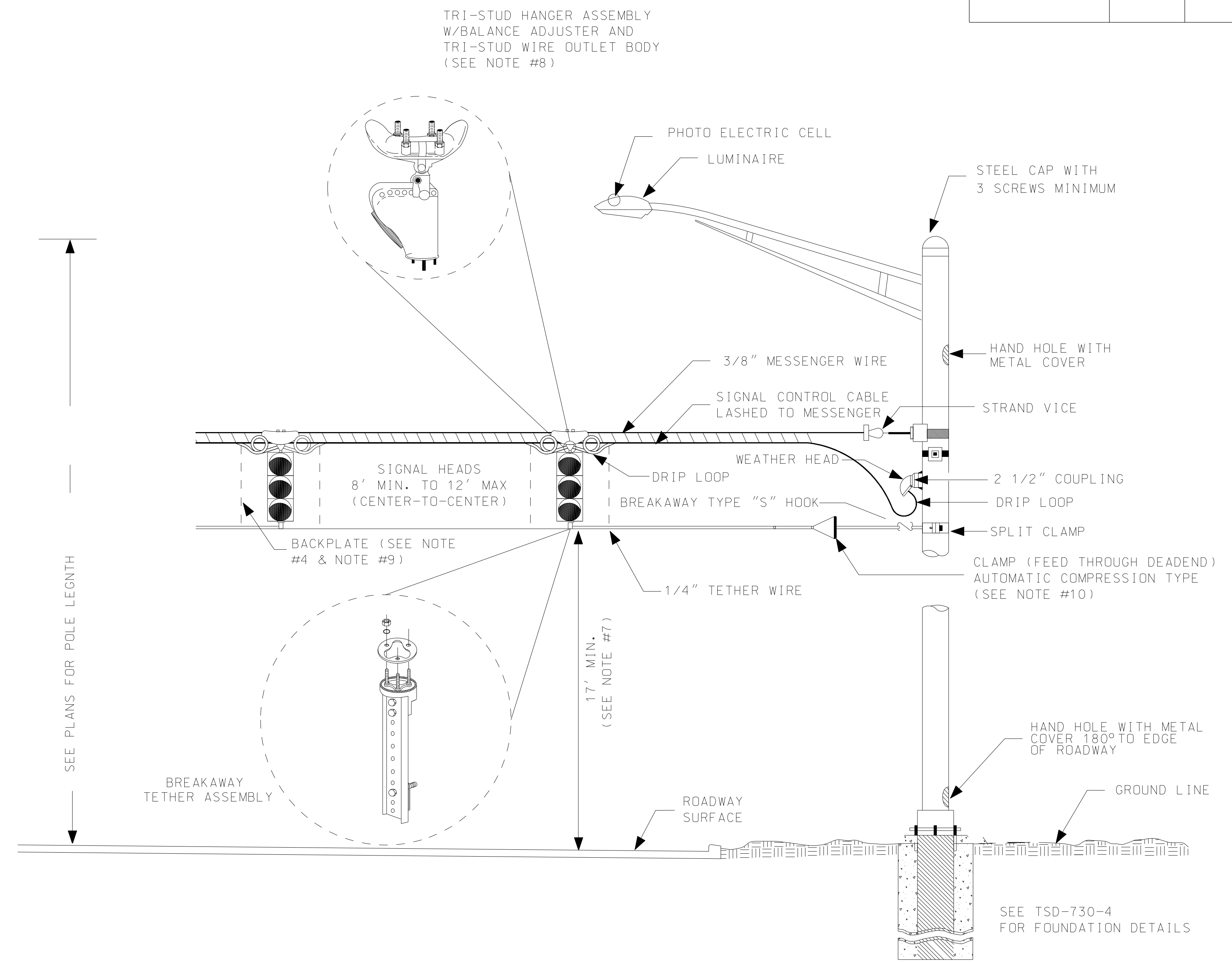
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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO

NOTES


1. THE CONTRACTOR SHALL FURNISH THE POWER SOURCE AND COMPLETE ALL WIRING CONNECTIONS TO THE LUMINAIRES.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE SPAN CLAMPS AND COUPLINGS TO PROVIDE FOR THE DESIRED SIGNAL HEIGHT. SPAN WIRE SAG SHALL BE LIMITED TO 5% OF THE LENGTH OF THE SPAN.
3. THE SIGNAL CONDUCTOR SHALL BE LASHED TO THE MESSENGER WIRE AT 18" MAX., CENTER-TO-CENTER WITH 16" MIN. LENGTH X 1/4" WIDE X .050" THICK LASHING RIBBON.
4. BACKPLATES, WHEN SO REQUIRED AS SHOWN ON THE PLANS, SHALL HAVE A 5-INCH BORDER CONSTRUCTED OF BLACK METAL.
5. ALTERNATIVE METHODS FOR MOUNTED TRAFFIC SIGNALS OR PEDESTRIAN SIGNALS MAY BE SUBMITTED FOR REVIEW AND CONSIDERATION BY THE ENGINEER.
6. FOUNDATION AND FOOTING DETAILS SHALL BE SUBMITTED AND PRE-APPROVED BY THE ENGINEER.
7. IN ALL CASES, TRAFFIC SIGNAL HEADS SHALL BE LOCATED BETWEEN 17 FEET AND 20 FEET ABOVE THE ROADWAY SURFACE.
8. BALANCE ADJUSTERS SHALL ONLY BE USED AS DIRECTED BY THE PLANS OR THE ENGINEER.
9. LOUVERS ARE TO BE INSTALLED ONLY IF DIRECTED FOR BY THE PLANS AND SHALL BE ORIENTED SO THAT THE SIGNAL INDICATION IS ONLY VISIBLE BY THE APPROACH LANE IT CONTROLS.
10. DEAD END CLAMPS ARE REQUIRED FOR EACH POLE.
11. THE FOLLOWING LAMP SIZE SHALL BE PROVIDED FOR THE POLE MOUNTING HEIGHT REQUIRED:
 47' POLE, 50' OVERALL MOUNTING HEIGHT SHALL INCLUDE A 400-WATT SODIUM VAPOR LUMINAIRE.
 37' POLE, 40' OVERALL MOUNTING HEIGHT SHALL INCLUDE A 250-WATT SODIUM VAPOR LUMINAIRE.
12. THE CONTRACTOR SHALL SUBMIT DETAIL DRAWINGS THAT INDICATE THE LUMINAIRE ARM ATTACHMENT DETAIL TO THE POLE UPRIGHT. IN ADDITION THE LUMINAIRE ARM WALL THICKNESS, TYPE OF METAL AND SUFFICIENT DATA SHALL BE FURNISHED THAT INDICATES THE ARM WILL SUPPORT THE LOAD REQUIRED BY THE SPECIFICATIONS.
13. THE LUMINAIRE SHALL BE A VERTICAL-LAMP ROADWAY TYPE CONSISTING OF A PRISMATIC BOROSILICATE GLASS REFRACTOR, DIE CAST ALUMINUM HOUSING WITH CORROSION-RESISTANT HARDWARE AND SHALL BE WEATHER-TIGHT AND GASKETED; OR A MEDIUM CUT-OFF PATTERN COBRA HEAD LUMINAIRE. HOUSING SHALL INCLUDE A TWIST-TO-LOCK RECEPTACLE COMPLETE WITH A PHOTOELECTRIC CONTROLLER AS PER EET-NEMA REQUIREMENTS. THE OPTICAL ASSEMBLY SHALL PRODUCE AN ASYMMETRICAL LIGHT PATTERN. BALLAST SHALL BE A CONSTANT WATTAGE AUTO REGULATED (CWA) TYPE. A CLEAR HPS LAMP OF PROPER WATTAGE SHALL BE PROVIDED.
14. EXTENDER SHALL BE USED TO GIVE CLEARANCE BETWEEN THE BACKPLATES AND THE TETHER WIRE.

ABBREVIATIONS
 MIN - MINIMUM
 MAX - MAXIMUM



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REVISIONS	 ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050 DESIGN BUREAU SPECIAL DRAWING METAL TRAFFIC SIGNAL POLE, AND LIGHTING INSTALLATION DETAILS (SHEET 1 OF 2)	SPECIAL DRAWING NO. T.S.D. - 730 - 2	INDEX NO.
09-27-97 Varner (Convert to Cadd)			1056
08-2005 Revisions All Sheets			
03-2010 Revisions All Sheets			

DRAWN BY: _____
 DATE DRAWN: _____

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