

**SPECIFICATIONS FOR OVERHEAD
LINE ACCESSORIES**

Issue Date: 07/07/2019

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20-SDMS-02
Rev.03.1

**SPECIFICATIONS FOR OVERHEAD LINE
ACCESSORIES**

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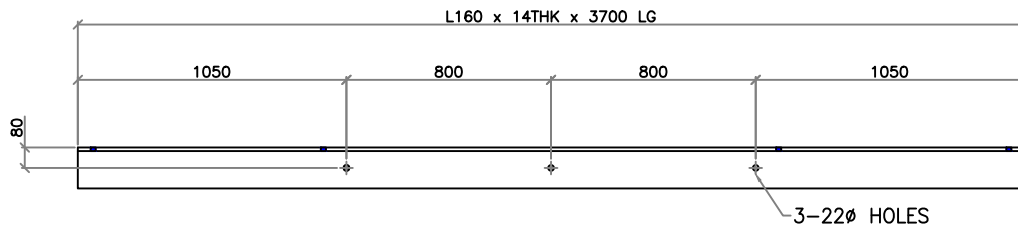
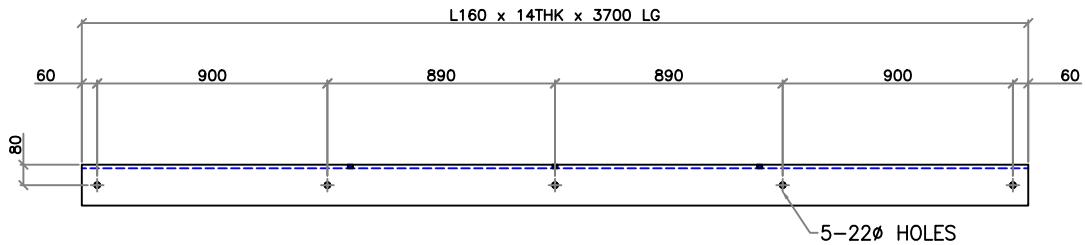
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**SPECIFICATIONS FOR OVERHEAD
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This sub-revision of the specification 20-SDMS-02 Rev.03 specifies the drawing details of additional new overhead line accessories for use with concrete and special pole structures. It shall always be read in conjunction with 20-SDMS-02 Rev.03 and the latest revision of 01-SDMS-01.

All the drawings and information in this sub-revision of the specification 20-SDMS-02 Rev.03 shall remain active unless a consolidated revision 20-SDMS-02 Rev.04 is officially published.

2 Drawings



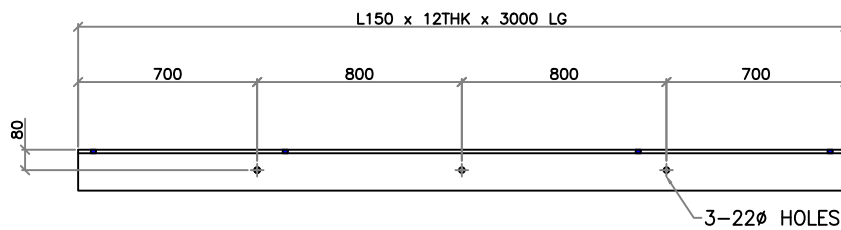
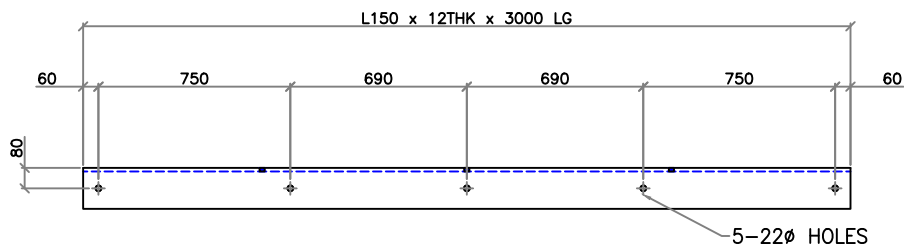
TYPE: SP-1

FIGURE 1A – CROSSARM FOR SPECIAL POLE STRUCTURES, TYPE: SP-1

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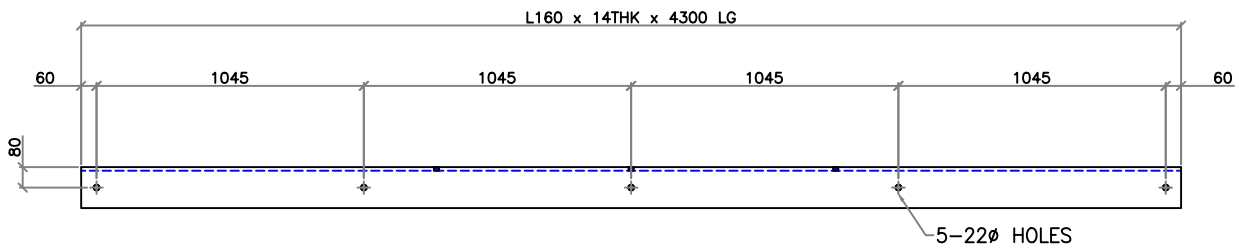
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FIGURE 1B – CROSSARM FOR SPECIAL POLE STRUCTURES, TYPE: SP-2

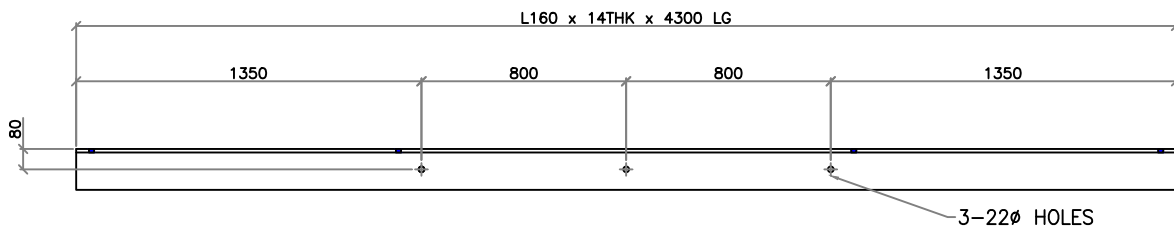
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CROSSARM DETAILS

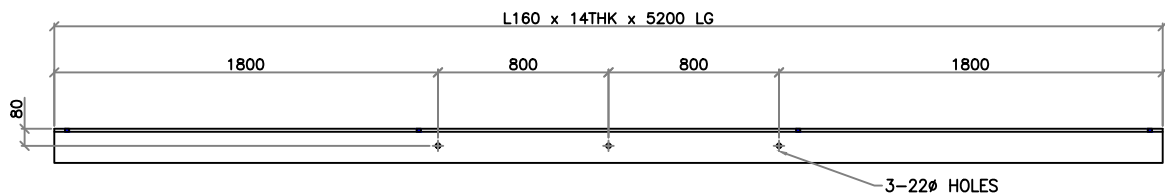
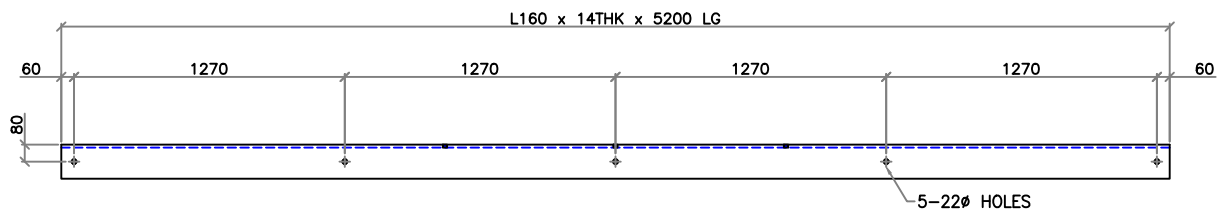
TYPE: SP–3

FIGURE 1C – CROSSARM FOR SPECIAL POLE STRUCTURES, TYPE: SP–3

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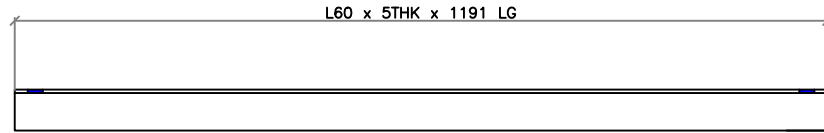
TYPE: SP-4

FIGURE 1D – CROSSARM FOR SPECIAL POLE STRUCTURES, TYPE: SP-4

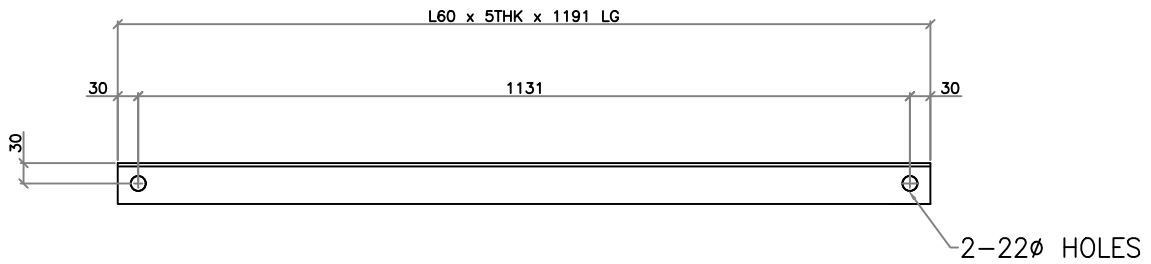
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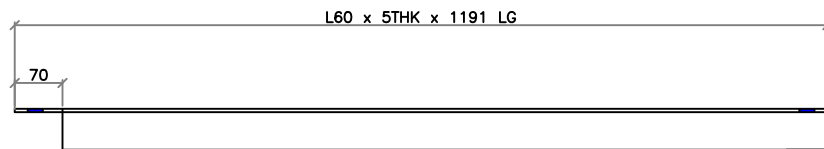
Dated: 2019-07



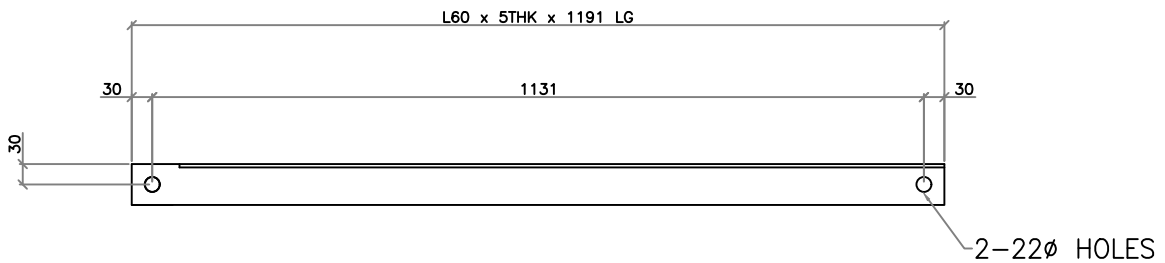
PLAN



BRACING DETAIL-1

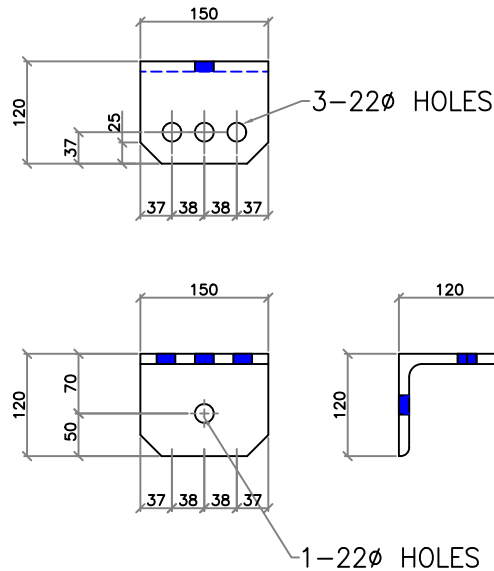


PLAN



BRACING DETAIL-2

FIGURE 4B – CROSSARM BRACES (SET) FOR SPECIAL POLE STRUCTURES



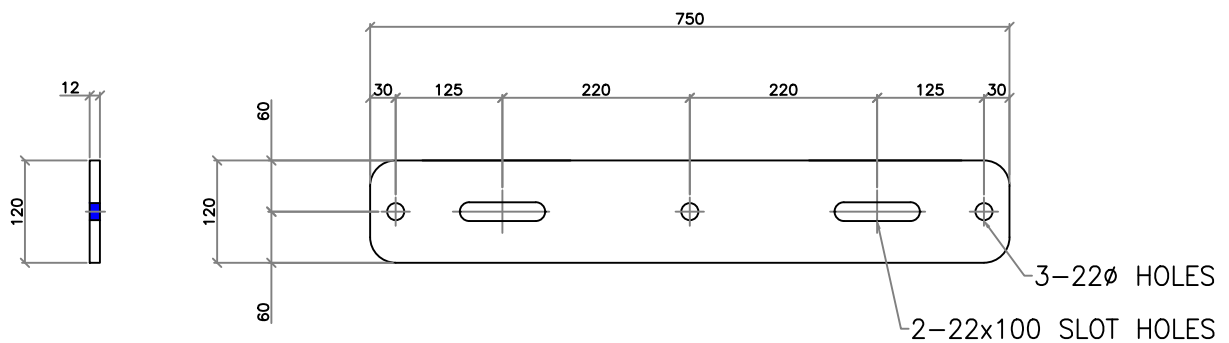
EARTHWIRE FIXING DETAIL
L120 x 12THK x 150 LG

FIGURE 5A – EARTHWIRE SUSPENSION SUPPORT FOR SPECIAL POLE STRUCTURES
L120x12THKx150LG

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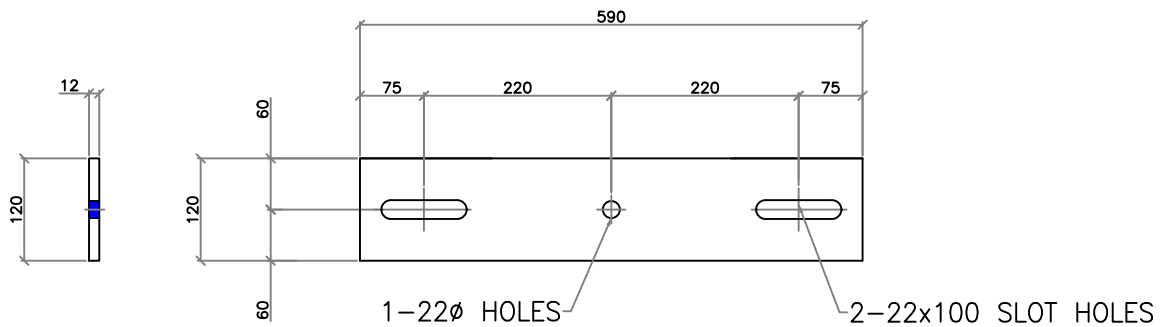
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DOUBLE ARMING PLATE

FIGURE 7A – DOUBLE-ARMING PLATE FOR SPECIAL POLE STRUCTURES



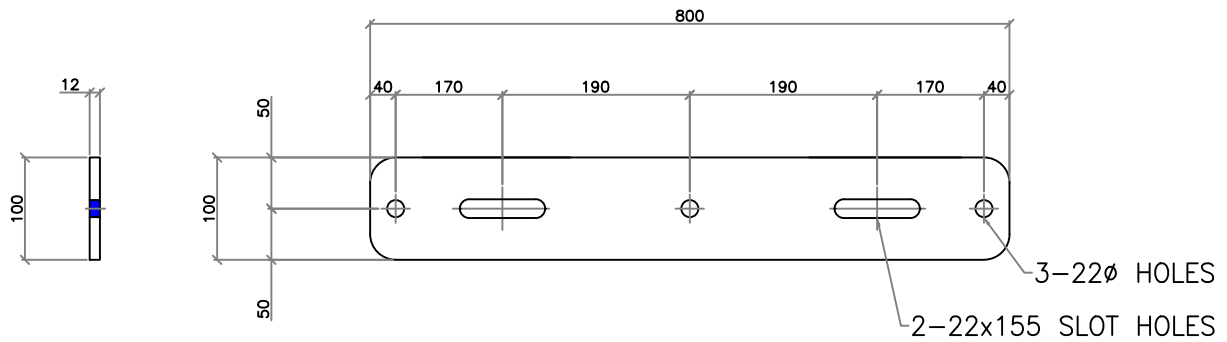
DOUBLE ARMING SUPPORT PLATE

FIGURE 7B – DOUBLE–ARMING SUPPORT PLATE FOR SPECIAL POLE STRUCTURES

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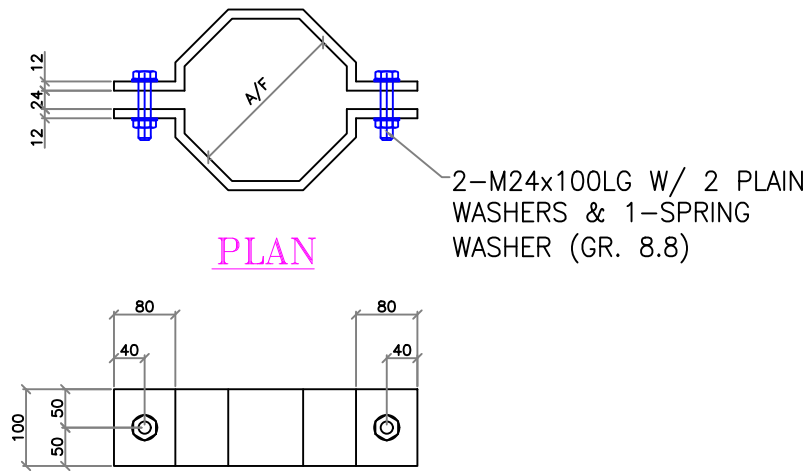
DOUBLE ARMING PLATE

FIGURE 7C – DOUBLE-ARMING PLATE FOR CP13S & CP14D CONCRETE POLE STRUCTURES

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STAY CLAMP TYPE-1 DETAILS

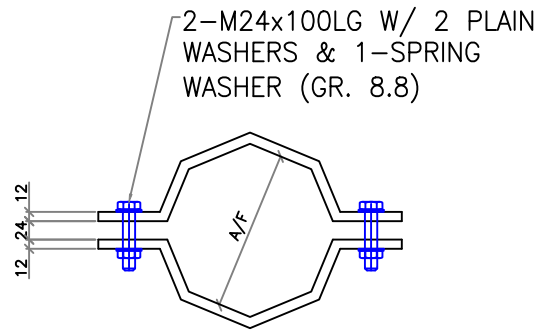
POLE BANDS A/F (MM)
222
231
252
270
294
317
330

FIGURE 10A – POLE BAND (STAY CLAMP) FOR SPECIAL POLE STRUCTURES, TYPE 1

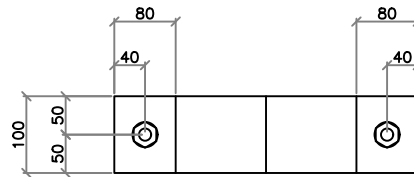
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STAY CLAMP TYPE-2 DETAILS

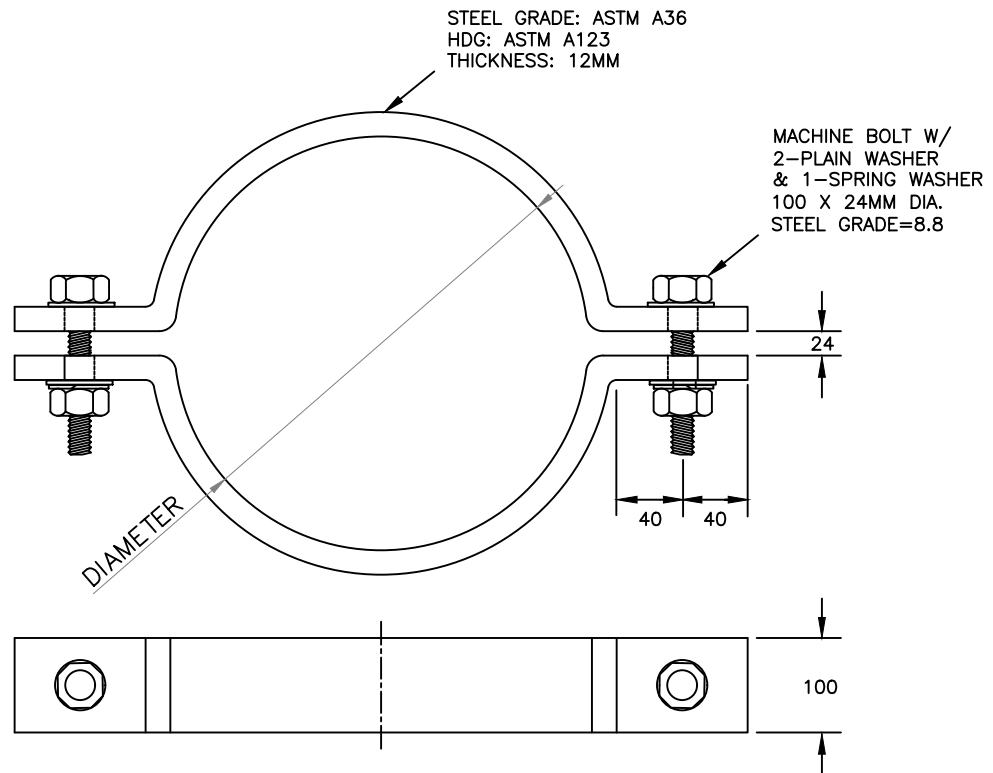
POLE BANDS A/F (MM)
297
312

FIGURE 10B – POLE BAND (STAY CLAMP) FOR SPECIAL POLE STRUCTURES, TYPE 2

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STRUCTURE TYPE	POLE CODE	POLE BAND DIAMETER (MM)
LV	CP10	194
SINGLE CIRCUIT	CP13S	267
PMT H-STRUCTURE	CP13S	300
PMT SINGLE-POLE	CP13S	300
DOUBLE CIRCUIT	CP14D	355, 370, 390

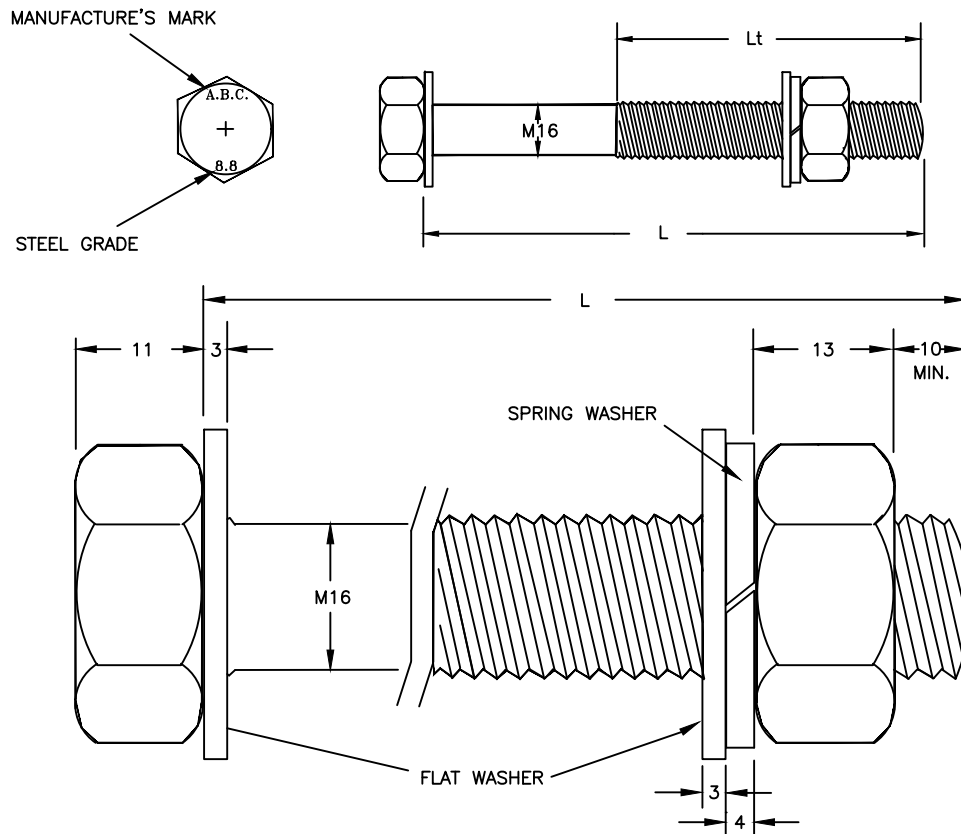
FIGURE 10C – POLE BAND (STAY CLAMP) FOR CONCRETE POLE STRUCTURES

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ϕ - DIAMETER OF BOLT
 L - LENGTH OF BOLT
 Lt - LENGTH OF THREADS
 Lt = L FOR L ≤ 100
 Lt = 75 FOR 100 < L < 200
 Lt = 100 FOR 200 ≤ L ≤ 300
 Lt = 150 FOR L > 300



 - SS 'UNIFIED' MATERIALS
 - REQUESTED NEW RR MATERIALS

M16 x 145mm	908202009
M16 x 165mm	908202217
M16 x 250mm	908202XXX
M16 x 275mm	908202010
M16 x 300mm	908202210
M16 x 325mm	908202XXX
M16 x 350mm	908202XXX

NOTE:-

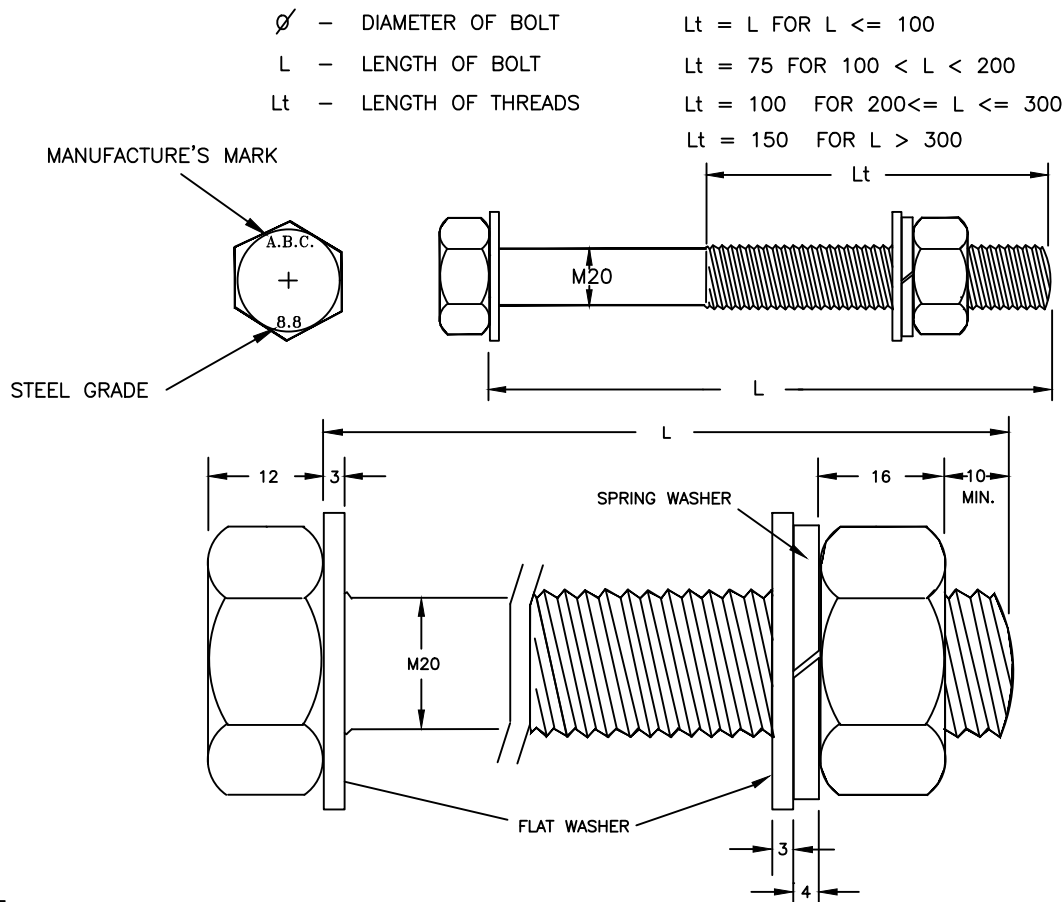
- EACH BOLT SHOULD BE PROVIDED WITH 1 NUT, 2 FLAT WASHERS AND 1 SPRING WASHER OF ABOVE MENTIONED SIZE.
- ALL BOLTS SHALL BE GRADED 8.8

FIGURE 14 – MACHINE BOLTS – M16

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NOTE:-

- EACH BOLT SHOULD BE PROVIDED WITH 1 NUT, 2 FLAT WASHERS AND 1 SPRING WASHER OF ABOVE MENTIONED SIZE.
- ALL BOLTS SHALL BE OF GRADE 8.8

LEGEND:

- SS 'UNIFIED' MATERIALS
- RR MATERIALS
- REQUESTED NEW RR MATERIALS

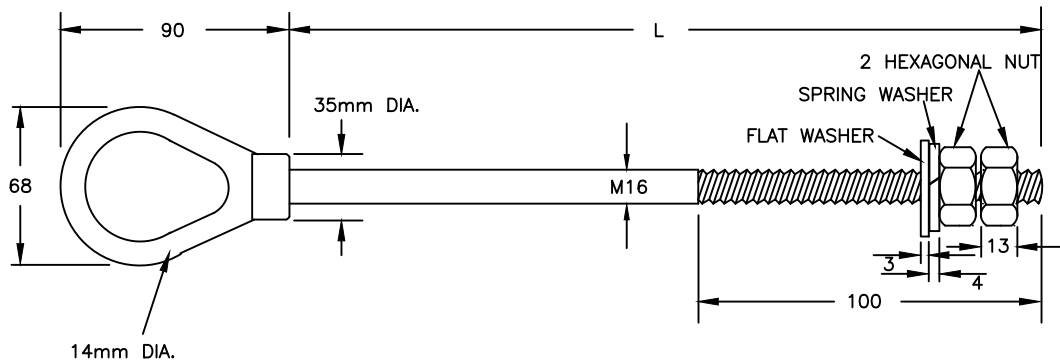
M20 x 60mm	908202012
M20 x 70mm	908202xxx
M20 x 170mm	908202013
M20 x 225mm	908202014
M20 x 265mm	908202015
M20 x 270mm	908202017
M20 x 285mm	908202219
M20 x 300mm	908202018
M20 x 310mm	908202019
M20 x 325mm	908202020
M20 x 335mm	908202021
M20 x 345mm	908202022
M20 x 350mm	908202xxx
M20 x 365mm	908202023
M20 x 380mm	908202024
M20 x 400mm	908202025
M20 x 410mm	908202xxx
M20 x 430mm	908202xxx
M20 x 450mm	908202xxx

FIGURE 15 – MACHINE BOLTS, M20

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SHOULDER EYE BOLT, M16 LENGTH	SEC ITEM CODE
155	908202220
170	908202003
180	908202198
235	908202221
255	908202222
265	908202005
275	908202223
285	908202224
300	908202006
310	908202225
335	908202XXX

- SS 'UNIFIED' MATERIALS
- REQUESTED NEW RR MATERIALS

NOTE:-

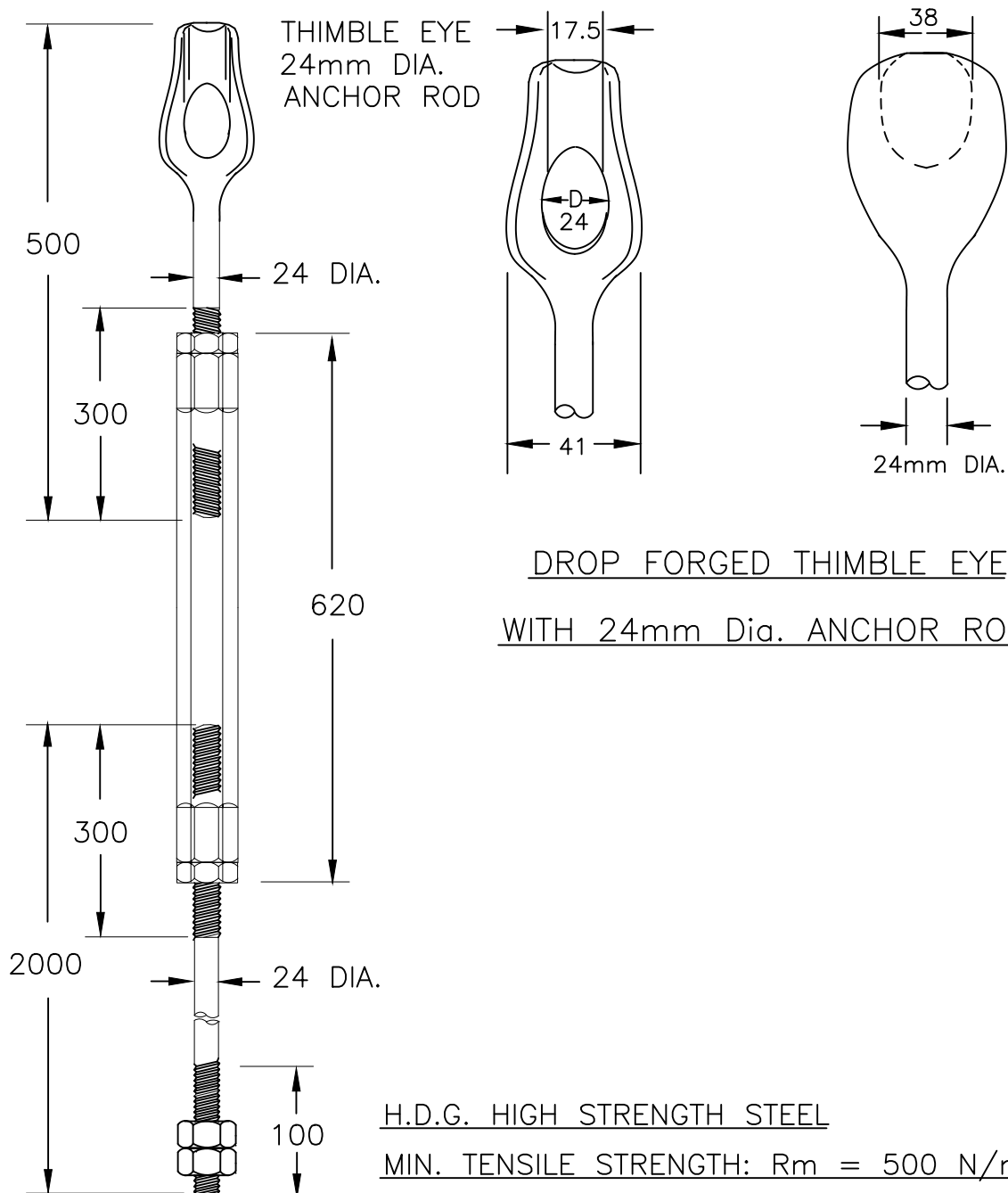
- EACH SHOULDER EYE BOLT SHOULD BE PROVIDED WITH 2 NUTS, 1 FLAT WASHER AND 1 SPRING WASHER.
- ALL BOLTS SHALL BE GRADE 8.8
- SHOULDER EYE BOLT SHALL BE FORGED IN ONE-PIECE WITHOUT WELDING

FIGURE 16 – SHOULDER EYE BOLTS – M16

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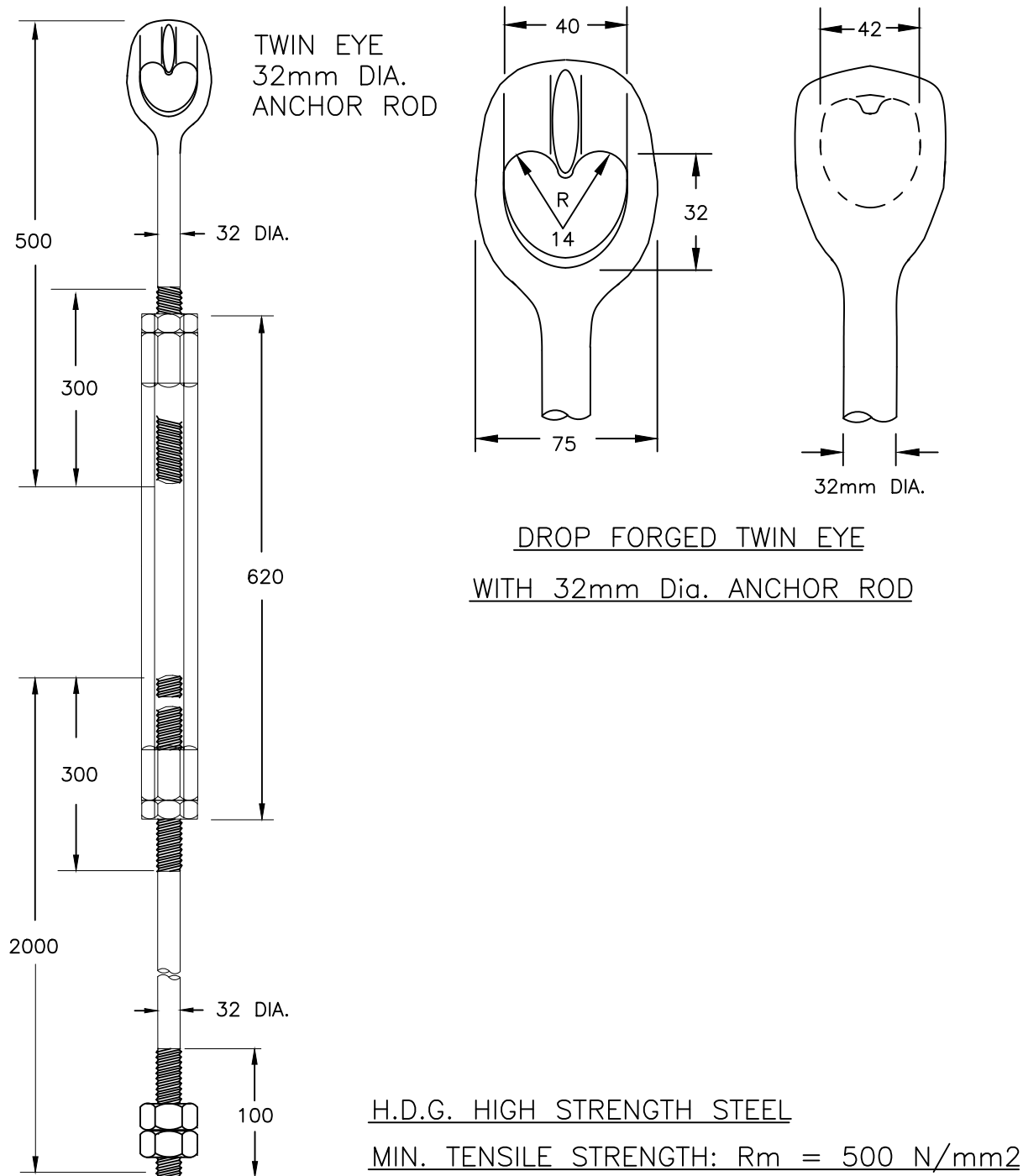


**FIGURE 22C – ANCHOR ROD THIMBLE EYE WITH
TURN-BUCKLE (ADJUSTABLE) 24MM DIA. X 2500MM LENGTH
FOR SPECIAL POLE STRUCTURES**

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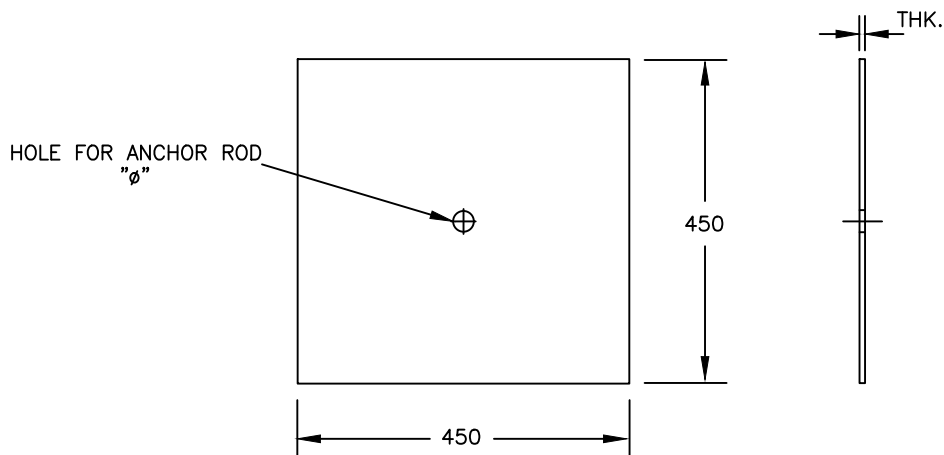


**FIGURE 22D – ANCHOR ROD TWIN EYE WITH
TURN-BUCKLE (ADJUSTABLE) 32MM DIAMETER X 2500MM LENGTH
FOR SPECIAL POLE STRUCTURES**

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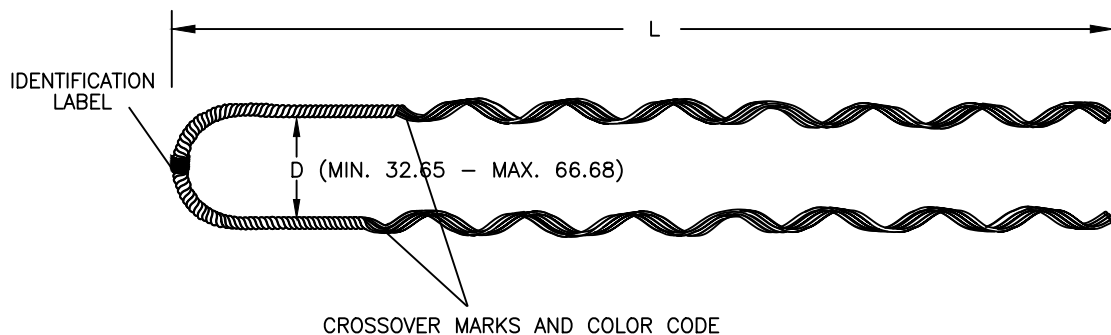
STAY PLATE DIMENSION	STAY PLATE HOLE DIAMETER (ø)
450x450x6	18
450x450x10	22
450x450x10	26
450x450x12	26
450x450x12	34

FIGURE 23 – STEEL PLATE (H.D.G.) FOR ANCHOR RODS

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STAY WIRE	STAY DIA. RANGE (MIN.–MAX.)	APPROXIMATE LENGTH (L) $\pm 30\text{mm}$	NUMBER OF STRANDS	RATED HOLDING STRENGTH	MINIMUM BREAKING LOAD	COLOR I.D CODE
9/16", 14.48mm Dia	13.1–14.48	1400	7	155.7 kN	100% of Stay Wire	BLACK

NOTE:–

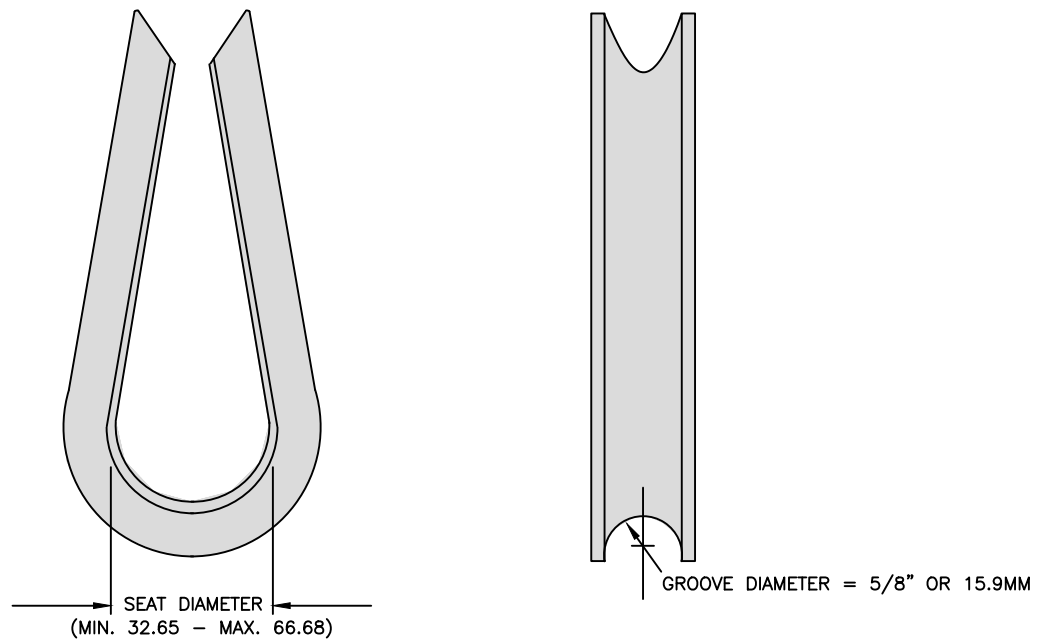
– MATERIAL: GALVANIZED CARBON STEEL WIRE

**FIGURE 26A – PREFORMED GUY GRIP (BIG-GRIP DEAD-END)
FOR GALVANIZED STAY WIRE, 9/16" or 14.48MM DIAMETER (UTS = 155.7kN)
FOR SPECIAL POLE STRUCTURES**

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FOR STAY WIRE DIAMETER RANGE: 13.1MM - 14.48MM (UTS = 155.7 kN)

NOTE

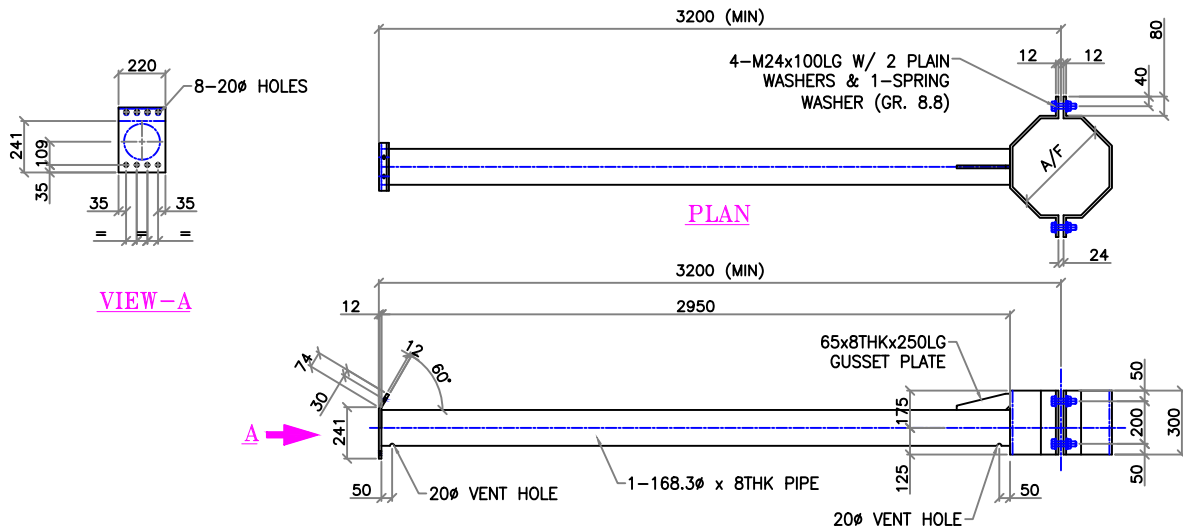
- MATERIAL : DROP FORGED STEEL
- HOT DIP GALVANIZED

**FIGURE 27A – HEAVY DUTY GUY THIMBLE, SIZE 5/8”
FOR SPECIAL POLE STRUCTURES**

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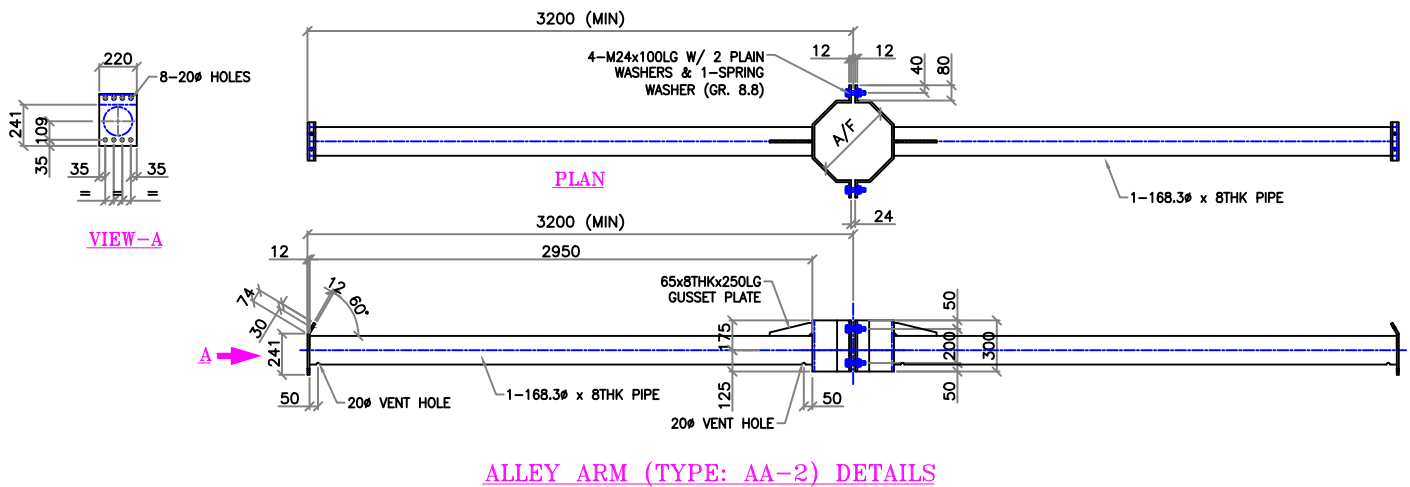
ALLEY ARM CLAMPS A/F (MM)
455
507
586

FIGURE 64A – ALLEY ARM BRACE FOR SPECIAL POLE STRUCTURES, TYPE: AA-1

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TYPE: AA-2

ALLEY ARM (TYPE: AA-2) CLAMP DETAILS

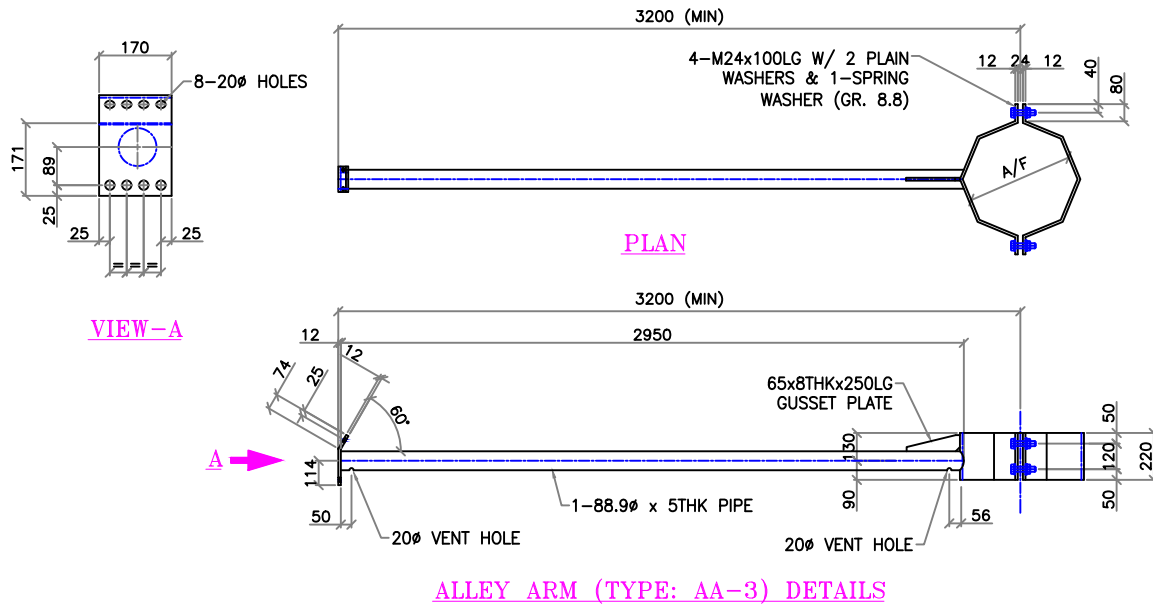
ALLEY ARM CLAMPS A/F (MM)
455
507
586

FIGURE 64B – ALLEY ARM BRACES FOR SPECIAL POLE STRUCTURES,
TYPE: AA-2

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TYPE: AA-3

ALLEY ARM (TYPE: AA-3) CLAMP DETAILS

ALLEY ARM CLAMPS A/F (MM)
498
504
526

FIGURE 64C – ALLEY ARM BRACE FOR SPECIAL POLE STRUCTURES, TYPE: AA-3