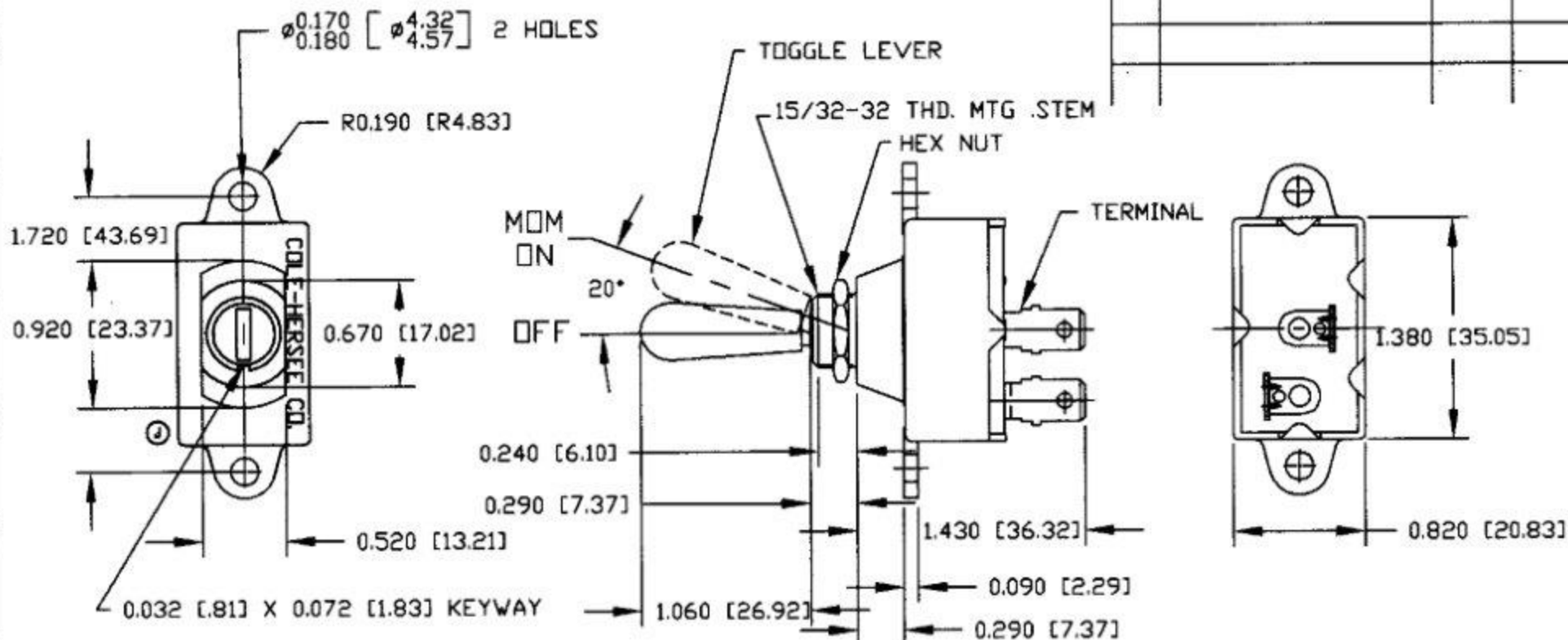


Revision Control Record

Rev.	Description of Change	ECN No.	Date
J	DELETE 'BOSTON U.S.A'	04449	11/10/04



NOTES:

1. HEX NUT TO BE BAGGED
2. ALL DIMENSION REFERENCE

Tolerances. Unless otherwise specifically noted, the following are default tolerances:
 * 2-place Decimal Dimensions $\pm 0.02"$
 * 3-place Decimal Dimensions $\pm 0.005"$
 * Angular Dimensions ± 1.5 Deg.
 * Metric: Refer to equivalent English Dimension Tolerance
 >>> NOTE: All tolerances are Non-Cumulative. <<<

Dimensional Units. All dimensions are expressed in inches except those shown in brackets (mm) are expressed in millimeters

"REF." or an Arrow to a Circle = Non-Toleranced Reference Dimension, shown for clarification purposes only.

PROPRIETARY INFORMATION. This Engineering Drawing, and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, re-produced, or in any other way transferred or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.

DESIGN CONTROL. It is the responsibility of the individual using / referencing this drawing to assure that the noted design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

DO NOT SCALE - Dimensional variation may occur during printing / reproduction.

Key for Special Characteristics:

- Critical Characteristic, relating to Safety and/or Regulatory Compliance
- Significant Characteristics relating to Process Control (SPC)
- Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)



Cole Hersee Co.

20 Old Colony Ave., South Boston, MA, 02127
 PHN 617-266-2100 Web: www.colehersee.com

Description:

SW. TOGGLE S.P.ST. MOM

Drawing / Part No.:

551001

Current Rev.

J

Used On or Ref.:

Scale: **1:1**

Drawn By: **S**

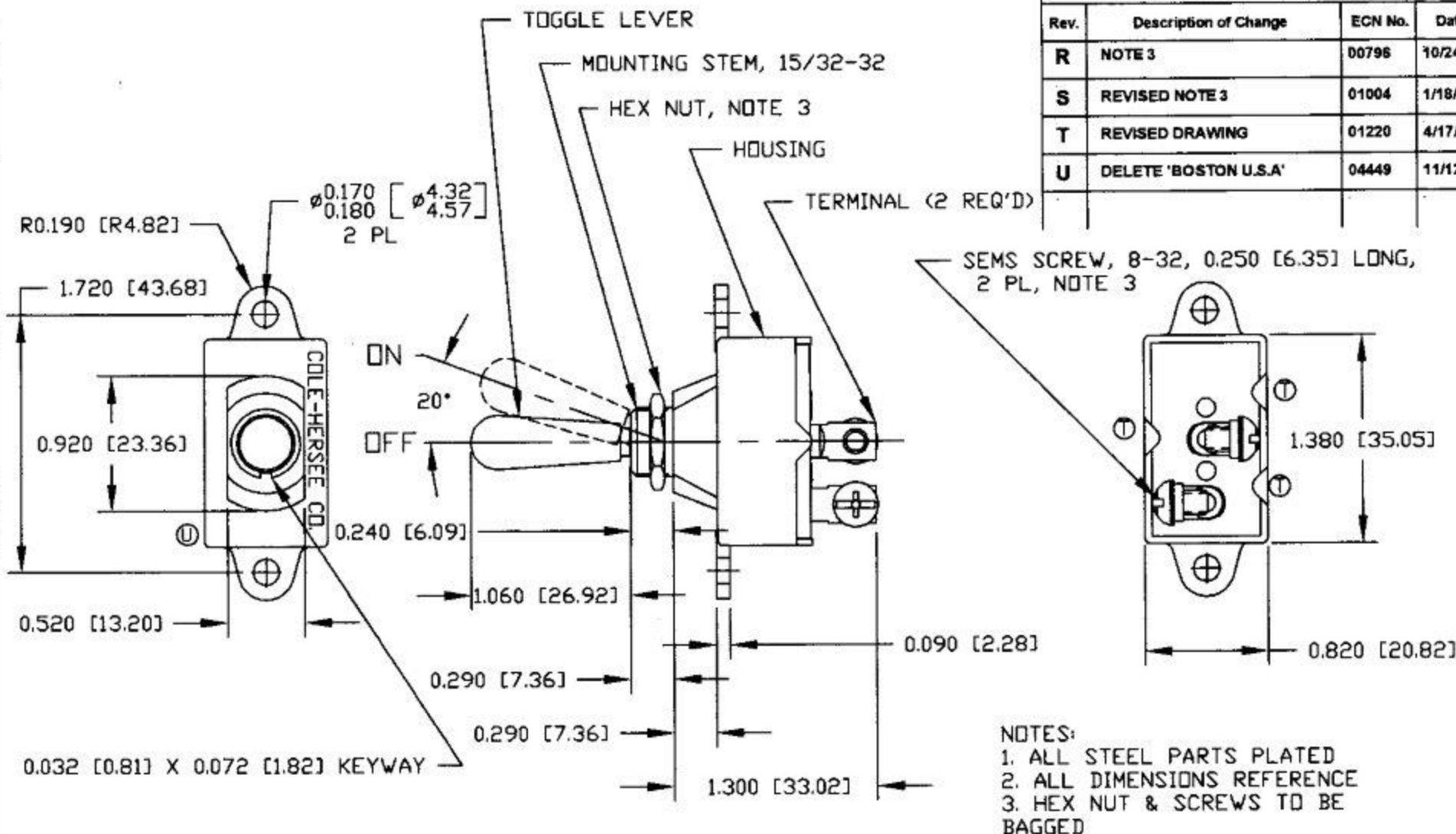
Date Drawn: **2/17/64**

Responsible Engineer: **NA**

Pg. 1 of 1

Revision Control Record

Rev.	Description of Change	ECN No.	Date
R	NOTE 3	00796	10/24/00
S	REVISED NOTE 3	01004	1/18/01
T	REVISED DRAWING	01220	4/17/01
U	DELETE 'BOSTON U.S.A'	04449	11/12/04



- NOTES:
1. ALL STEEL PARTS PLATED
 2. ALL DIMENSIONS REFERENCE
 3. HEX NUT & SCREWS TO BE BAGGED

Tolerances. Unless otherwise specifically noted, the following are default tolerances:

- 2-place Decimal Dimensions ± 0.02 "
- 3-place Decimal Dimensions ± 0.005 "
- Angular Dimensions ± 1.0 Deg.
- Metric: Refer to equivalent English Dimension Tolerance
- >>> NOTE: All tolerances are Non-Cumulative. <<<

Dimensional Units. All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters

REF - or an Asterisk (*) = Non-Tolerance Reference Dimension, shown for clarification purposes only.

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DO NOT SCALE. Dimensional variation may occur during printing / reproduction.

Key for Special Characteristics:

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- Significant Characteristic relating to Process Control (SPC)
- Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)



Cole Hersee Co.

20 Old Colony Ave., South Boston, MA, 02127
Phn: 817-288-2100 Web: www.colehersee.com

Description:

SP-ST TOGGLE SWITCH

Drawing / Part No.:

551800

Current Rev.

U

Used On or Ref.:

Scale: **1:1**

Drawn By: **SB**

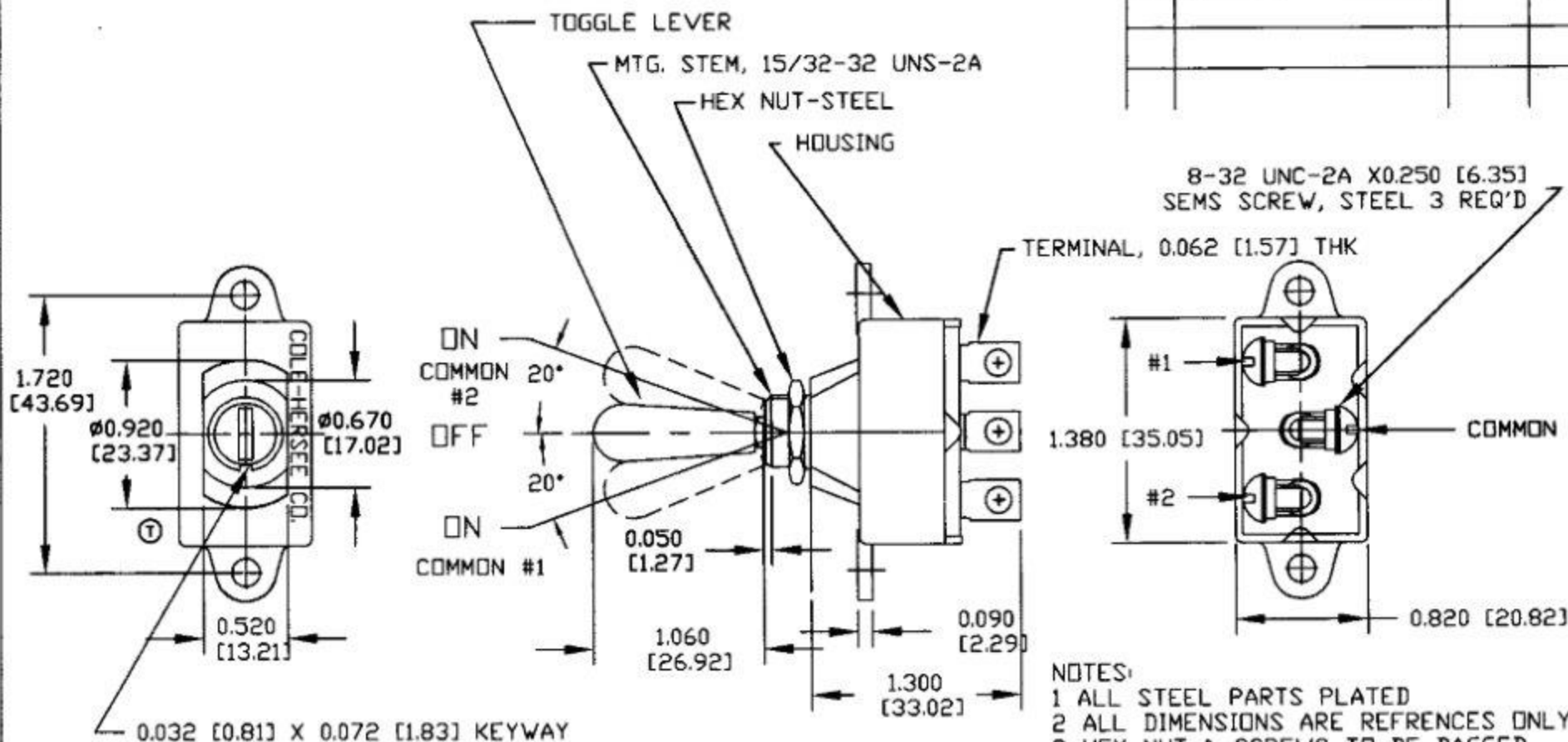
Date Drawn: **1/21/63**

Responsible Engineer: **NA**

Pg. 1 of 1

Revision Control Record

Rev.	Description of Change	ECN No.	Date
T	DELETE 'BOSTON U.S.A'	04449	11/05/04



Tolerances: Unless otherwise specifically noted, the following are default tolerances:
 * 3-place Decimal Dimensions $\pm 0.02"$
 * 3-place Decimal Dimensions $\pm 0.005"$
 * Angular Dimensions ± 1.5 Deg.
 * Metric: Refer to equivalent English Dimension Tolerances
 >>> NOTE: All tolerances are Non-Conservative. <<<

Dimensional Units: All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters

"REF." or "AS SHOWN" is Non-Toleranced Reference Dimension, shown for clarification purposes only.

PROPRIETARY INFORMATION: This Engineering Drawing, and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, reproduced, or in any other way transferred or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.

DESIGN CORRECTION: It is the responsibility of the individual using/ referencing this drawing to ensure that the noted design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

DO NOT SCALE - Dimensional variation may occur during printing/ reproduction.

Key for Special Characteristics:



Critical Characteristic, relating to Safety and/or Regulatory Compliance



Significant Characteristic relating to Process Control (SPC)



Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)

Cole Hersee Co.

20 Old Colony Ave., South Boston, MA, 02127
 Phone 617-268-2100 Web: www.colehersee.com

Description:

SW, SPDT, TOGGLE

Drawing/
Part No.:

551802

Current Rev.

T

Used On
or Ref.:

Scale: 1:1

Drawn: SB

Date: 1-3-86

Responsible Engineer: NA

Pg. 1 of 1

COLE-HERSEE CO.

$\triangle \frac{4.31}{4.57}$ DIA. 2 HOLES

20° TYP. REF. →

BAT. $\frac{143}{244}$

OFF

BAT $\frac{141}{242}$

551806

-BUSHING, 15/32-32 UNS-2 A THD.
HOUSING, ZINC DIE CAST

-SCREW-SEMS
8-32 X 6.35 LG., STEEL
—BAT #1 (6 REQ'D)

-BAT. #1

CIRCUIT #1
CIRCUIT #2

BAT#2

-CIRCUIT #4

-CIRCUIT #3

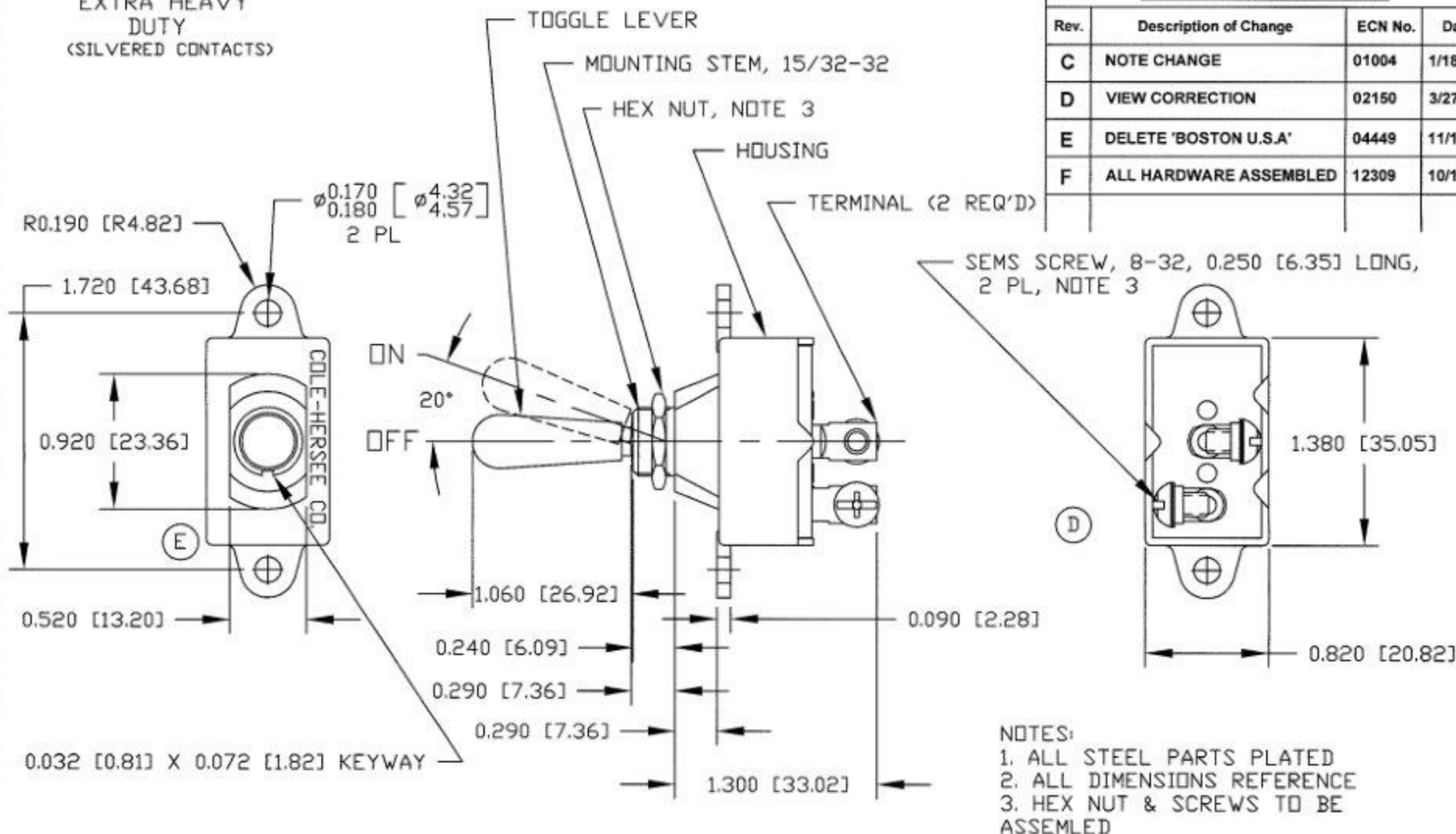
2. HEX NUT & SCREWS TO BE

(N) BAGGED

DO NOT SCALE

LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPRO'D.	SCALE	DATE DRAWN
								N	MF	CLB		1:1	2-25-64
								FINISH N	COLE-HERSEE COMPANY BOSTON, MASS. 02127, U.S.A.				DATE BLUEPRINT
				N	ECH 01005	1/4/01	DS						
				M	CAD OR ZINC 125234	11/19/92	SH	TOLERANCES FRACTIONAL ±					
				L	REDRAWN	10.1.76	KG	DECIMAL ±.25	D.P.D.T. TOGGLE SW.				551806

EXTRA HEAVY
DUTY
(SILVERED CONTACTS)



NOTES:
1. ALL STEEL PARTS PLATED
2. ALL DIMENSIONS REFERENCE
3. HEX NUT & SCREWS TO BE
ASSEMBLED

Revision Control Record

Rev.	Description of Change	ECN No.	Date
C	NOTE CHANGE	01004	1/18/01
D	VIEW CORRECTION	02150	3/27/02
E	DELETE 'BOSTON U.S.A'	04449	11/10/04
F	ALL HARDWARE ASSEMBLED	12309	10/18/12

Tolerances Unless otherwise specifically noted, the following are default tolerances:
* 2-place Decimal Dimensions ± 0.02 "
* 3-place Decimal Dimensions ± 0.005 "
* Angular Dimensions ± 1.5 Deg.
* Metric: Refer to equivalent English Dimension Tolerance
>>> NOTE: All tolerances are Non-Cumulative. <<<

Dimensional Units All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters

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DO NOT SCALE - Dimensional variation may occur during printing / reproduction.

Key for Special Characteristics



Critical Characteristic, relating to Safety and/or Regulatory Compliance



Significant Characteristic relating to Process Control (SPC)



Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)



Cole Hersee Co.

20 Old Colony Ave., South Boston, MA, 02127
Phn: 617-268-2100 Web: www.colehersee.com

Description: SP-ST TOGGLE SWITCH

Drawing /
Part No.:

551840

Current Rev.

F

Used On
or Ref.:

Scale: 1:1

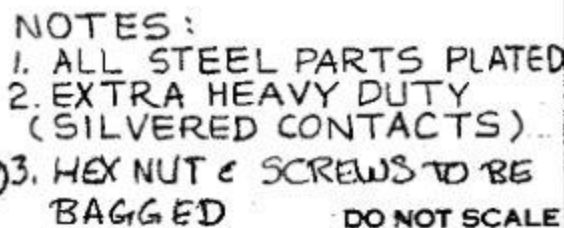
Drawn PEM

Date 9/18/00

Responsible DPS

Pg. 1 of 1

DO NOT SCALE

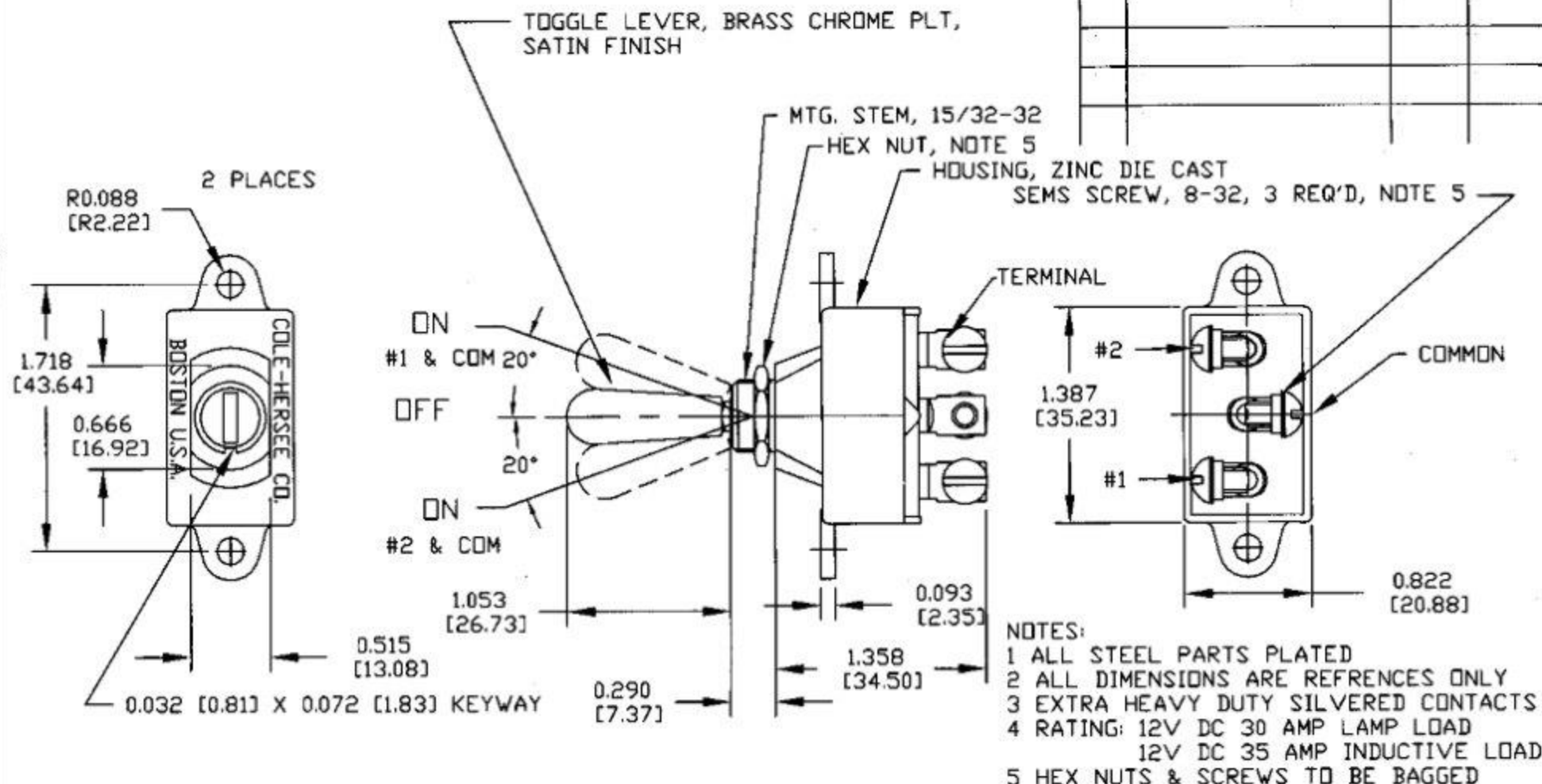


METRIC

LET.	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'D	SCALE	DATE DRAWN
								H	RZ	AF		1:1	5-6-65
								FINISH H	CH Cole Hersee Co. IRON CASTING & MACHINE WORKING CO. U.S.A. 1917				DATE BLUEPRINT
				H	ECW 01005	1/14/01	De	TOLERANCES	S.P.-S.T. MOM. TOGGLE SW				551841
				G	REDRAWN	9/13/90	B.L	DECIMAL $\pm$ METRIC $\pm .25$					

Revision Control Record

Rev.	Description of Change	ECN No.	Date
M	NOTE CHANGE	01004	1/17/01



Tolerances Unless otherwise specifically noted, the following are default tolerances:

- 2-place Decimal Dimensions $\pm 0.02^\circ$
- 3-place Decimal Dimensions $\pm 0.005^\circ$
- Angular Dimensions ± 1.5 Deg.
- Metric: Refer to equivalent English Dimension Tolerance
- NOTE: All tolerances are Non-Cumulative.

Dimensional Units All dimensions are expressed in inches except those shown in brackets (xx) are expressed in millimeters

"REF." or an Asterisk (*) Non-Toleranced Reference Dimension, shown for clarification purposes only.

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DO NOT SCALE - Dimensional variation may occur during printing / reproduction.

Key for Special Characteristics:



Critical Characteristic, relating to Safety and/or Regulatory Compliance



Significant Characteristic relating to Process Control (SPC)



Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the Identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)



Cole Hersee Co.

20 Old Colony Ave., South Boston, MA, 02127
Ph: 617-268-2100 Web: www.colehersee.com

Description: SW, TGL, SPDT

Drawing/
Part No.:

551842

Current Rev.

M

Used On
or Ref.:

Scale: **1:1**

Drawn By: **RZ**

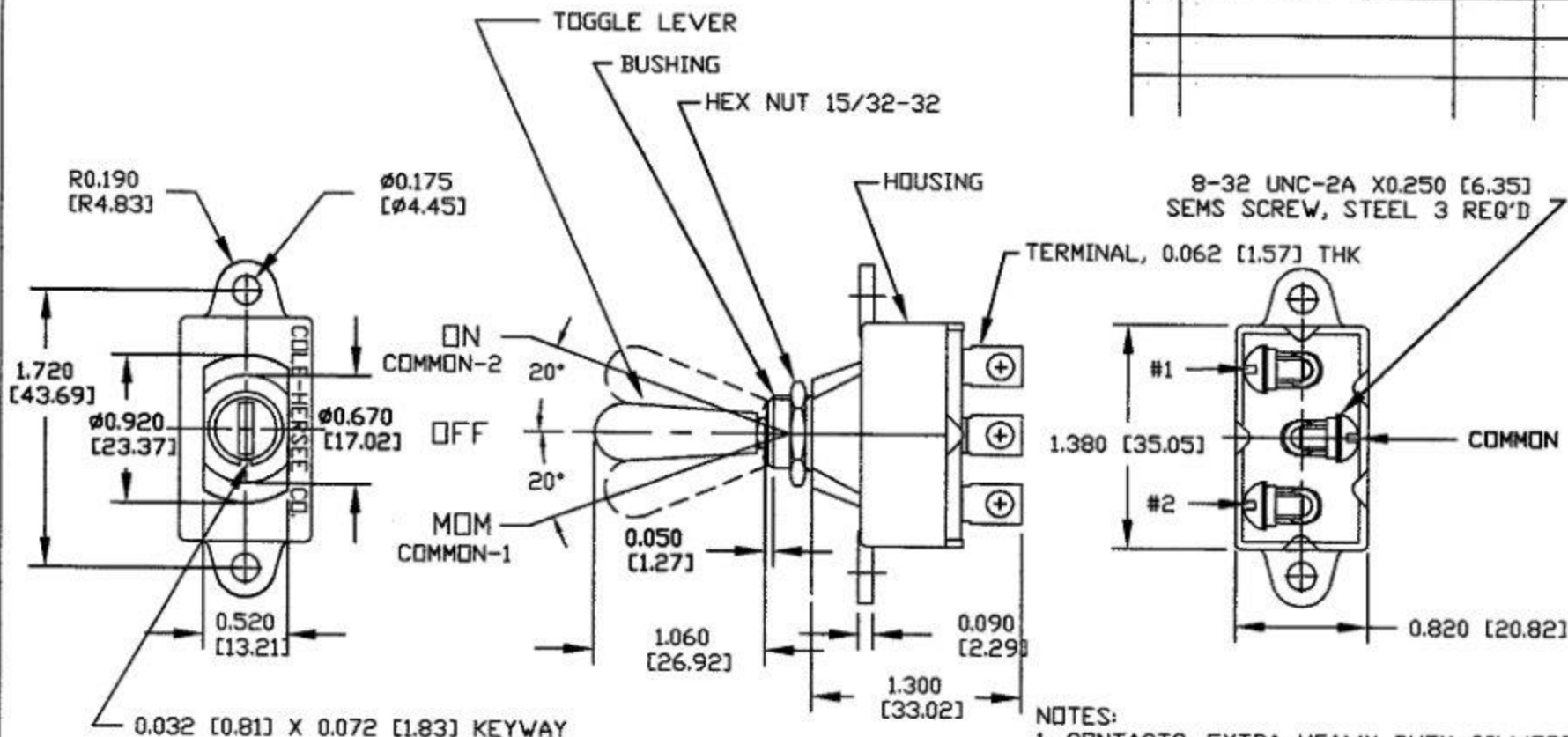
Date: **6/6/65**

Responsible Engineer: **NA**

Pg. 1 of 1

Revision Control Record

Rev.	Description of Change	ECN No.	Date
H	ADD NOTE 3 & 4	04449	07/21/06



NOTES:

- CONTACTS: EXTRA HEAVY DUTY SILVERED
- ALL STEEL PARTS PLATED
- ALL DIMENSIONS ARE REFERENCES ONLY
- HEX NUT & SCREWS TO BE BAGGED

Tolerances: Unless otherwise specifically noted, the following are default tolerances:

- 2-place Decimal Dimensions $\pm .02"$
- 3-place Decimal Dimensions $\pm .005"$
- Angular Dimensions ± 1.0 Deg.
- Metric: Refer to equivalent English Dimension Tolerance

NOTE: All tolerances are Non-Cumulative, unless otherwise specified.

Dimensional Units: All dimensions are expressed in inches except those shown in brackets (mm) are expressed in millimeters.

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DESIGN CONTROL: It is the responsibility of the individual using / referencing this drawing to ensure that the noted design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

DO NOT SCALE - Dimensional variation may occur during printing / reproduction.

Key for Special Characteristics:



Critical Characteristic, relating to Safety and/or Regulatory Compliance



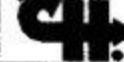
Significant Characteristic relating to Process Control (SPC)



Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and the Customer

State that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.

Cole Hersee Co.



20 Old Colony Ave., South Boston, MA, 02127
Phn: 617-265-2100 Web: www.colehersee.com

Description:

SW,SPDT,MOM,TOGGLE

Drawing / Part No.

551843

Current Rev.

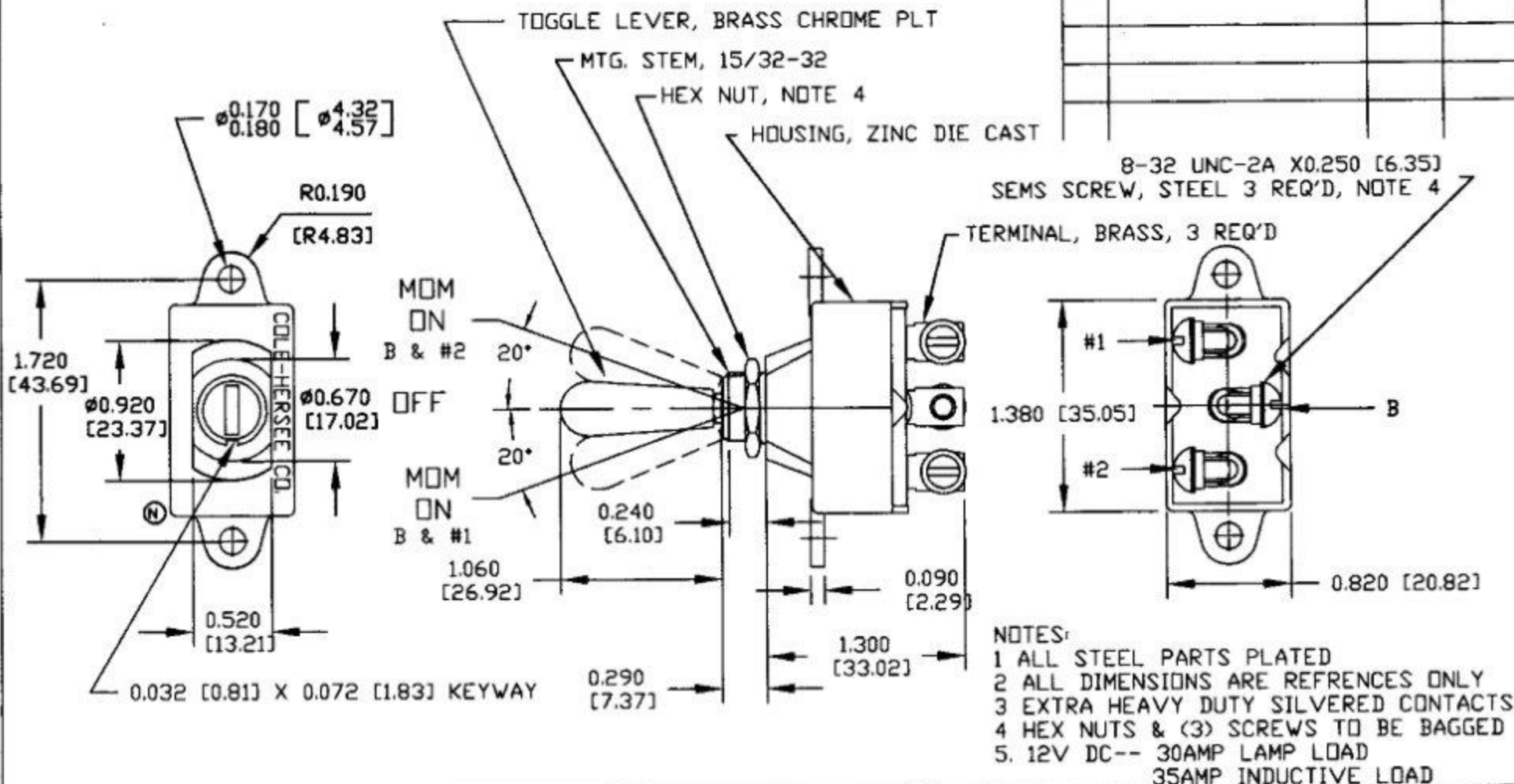
H

Used On or Ref.: Scale: 1:1 Drawn By: RZ Date: 5-6-85

Responsible Engineer: NA Pg. 1 of 1

Revision Control Record

Rev.	Description of Change	ECN No.	Date
N	DELETE 'BOSTON U.S.A'	04449	11/05/04



Tolerances: Unless otherwise specifically noted, the following are default tolerances:

- 2-place Decimal Dimensions $\pm .02"$
- 3-place Decimal Dimensions $\pm .005"$
- Angular Dimensions ± 1.0 Deg.
- Metric: Refer to equivalent English Dimension Tolerance
- NOTE: All tolerances are Non-Cumulative, unless otherwise specified.

Dimensional Units: All dimensions are expressed in inches except those shown in brackets (xx) are expressed in millimeters.

"REF." or "as Assembled": = Non-Toleranced Reference Dimension, shown for clarification purposes only.

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DO NOT SCALE: Dimensional variation may occur during printing/reproduction.

Key for Special Characteristics:



Critical Characteristic, relating to Safety and/or Regulatory Compliance



Significant Characteristic relating to Process Control (SPC)



Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)



Cole Hersee Co.

20 Old Colony Ave., South Boston, MA, 02127
Phn: 617-266-2100 Web: www.colehersee.com

Description:

SW,SPDT,MOM,TOGGLE,SW

Drawing/
Part No.:

551844

Current Rev.

N

Used On
or Ref.:

Scale: **1:1**

Drawn: **RZ**

Date: **5/6/65**

Responsible Engineer: **NA**

Pg. 1 of 1

MM	IN
1.25	.010
.31	.092
1.32	.072
3.28	.090
4.31	.170
4.51	.180
4.82	.190
7.36	.290
3.20	.520
7.01	.670
10.82	.870
13.36	.920
16.92	1.080
15.02	1.300
15.05	1.380
15.08	1.720
6.09	.240



- 1 SILVERED CONTACTS
2 EXTRA HEAVY DUTY

④ 3. HEX NUT & SCREWS TO BE BAGGED
DO NOT SCALE

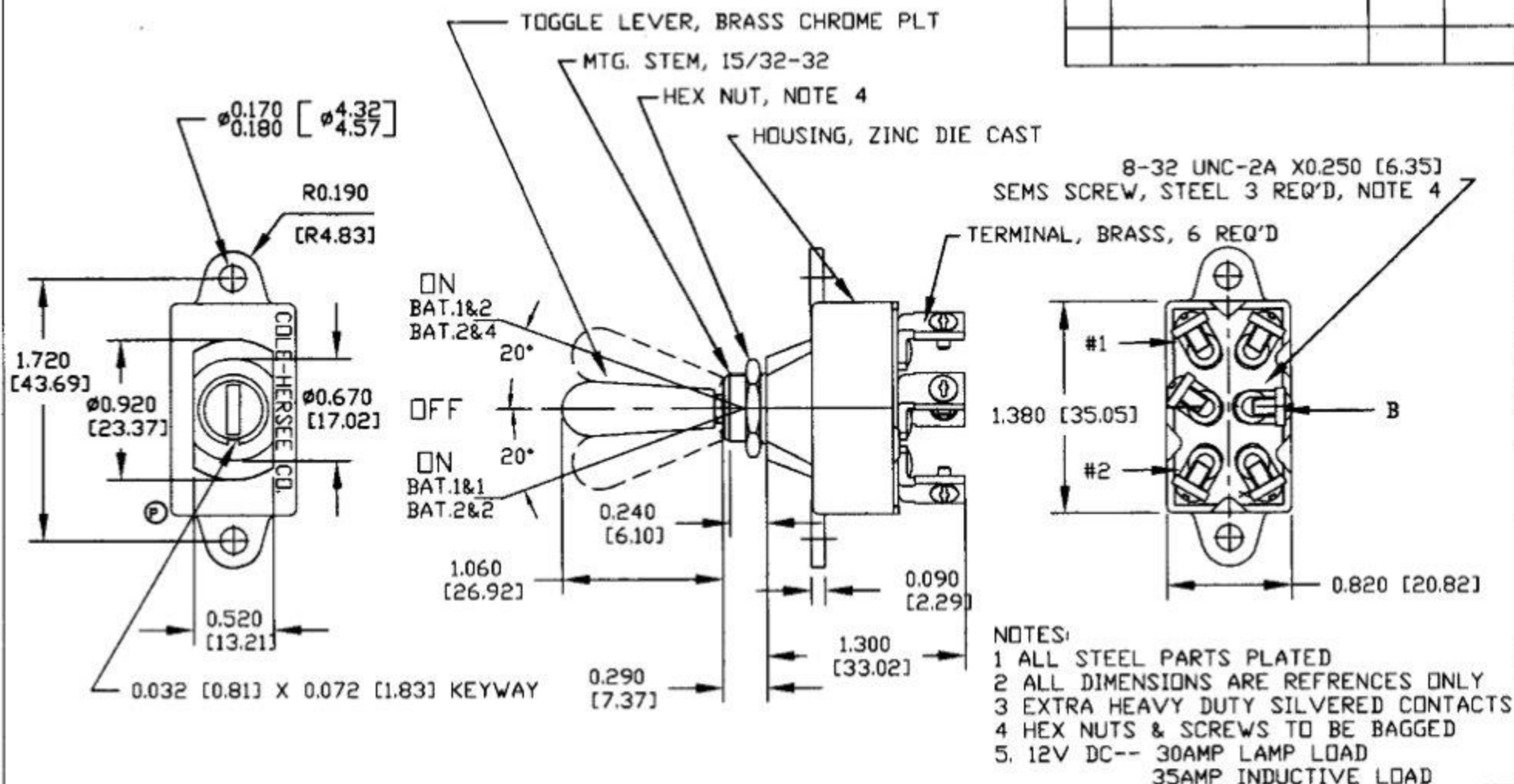
METRIC

Confidential property of Cole Hersee

LET.	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPROV'D.	SCALE		DATE DRAWN
								— # —	RZ	6-12-80		1:1		9-5-85
								FINISH	 Cole Hersee Co. SOLE COIL COIL FACTORY SOUTH BOSTON, MA. U.S.A. 02117					DATE BLUEPRINT
							— # —	TOLERANCES						DP-ST TOGGLE SWITCH
								DECIMAL ±						
								METRIC ± .25						

Revision Control Record

Rev.	Description of Change	ECN No.	Date
P	DELETE 'BOSTON U.S.A'	05040	01/18/05



Tolerances Unless otherwise specifically noted, the following are default tolerances:
 * 2-place Decimal Dimensions $\pm .02"$
 * 3-place Decimal Dimensions $\pm .005"$
 * Angular Dimensions ± 1.0 Deg.
 * Metric: Refer to equivalent English Dimension Tolerance
 >>> NOTE: All tolerances are Non-Cumulative. <<<

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Key for Special Characteristics



Critical Characteristic, relating to Safety and/or Regulatory Compliance



Significant Characteristic relating to Process Control (SPC)



Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

(Note that the identification of any Characteristic as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.)



Cole Hersee Co.

20 Old Colony Ave., South Boston, MA, 02127
 Plus 617-268-2100 Web: www.colehersee.com

Description:

SW, DPDT, TOGGLE, SW

Drawing / Part No.:

551846

Current Rev.

P

Used On or Ref.:

Scale: 1:1

Drawn By: MF

Date Drawn: 4/14/65

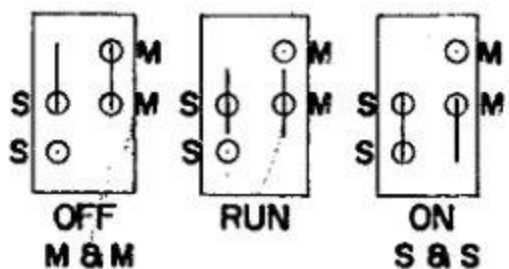
Responsible Engineer: G.A.

Pg. 1 of 1

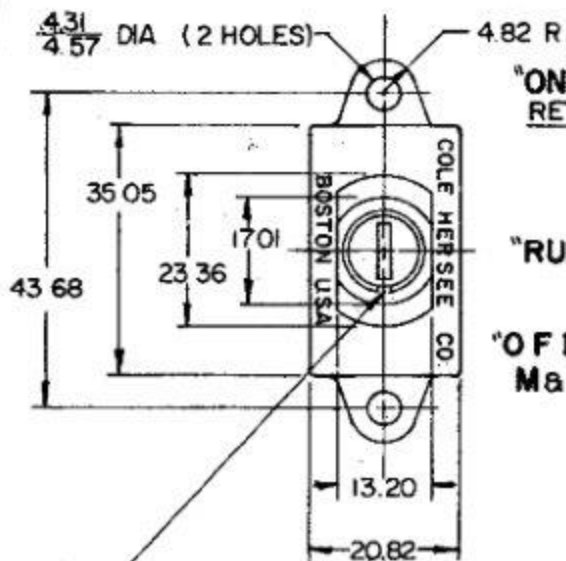
MM IN

0.25 0.010
 0.81 0.032
 1.82 0.072
 2.28 0.090
 3.81 0.150
 4.31 0.170
 4.57 0.180
 4.82 0.190
 6.09 0.240
 6.35 0.250
 7.36 0.290
 13.20 0.520
 17.01 0.670
 20.82 0.820
 23.36 0.920
 26.92 1.060
 28.78 1.130
 35.05 1.380
 43.68 1.720

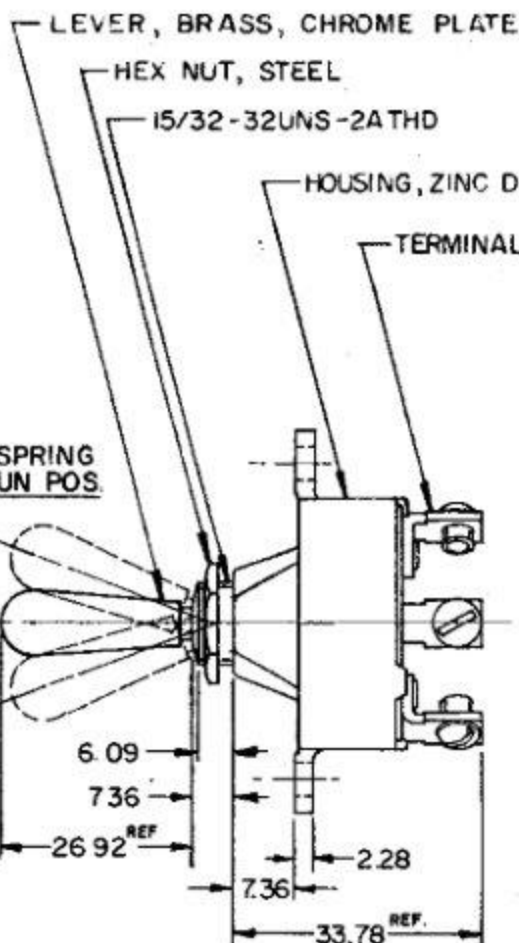
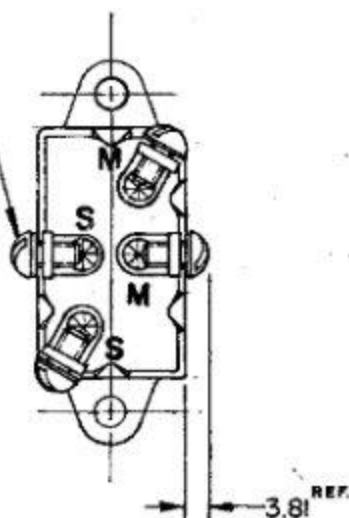
551862



CIRCUIT DIAGRAM

"ON" S & S - SPRING
RETURN TO RUN POS.

"RUN"

"OFF"
M & MSCREW-SEMS, 8-32 UNC-2A X
6.35 LG., STEEL (4 REQ'D.)

NOTES

1. SILVER CONTACT SURFACES.
2. MELAMINE LINER.

- ③ 3. ALL STEEL PARTS PLATED
- ④ 4. HEX NUT & SCREWS TO BE BAGGED

DO NOT SCALE

Confidential property of Cole Hersee

METRIC

LET	WAS	DATE	BY	LET	WAS	DATE	BY	MATERIAL	DRAWN	CHECKED	APPR'D.	SCALE	DATE DRAWN
									MF	9-13-78		1:1	12-28-66
								FINISH					DATE BLUEPRINT
				G	02NO1005	1/14/01	29						
				F	02NO1005/25234	11/17/92	34						
				E	REDRAWN	8-17-78	JV	TOLERANCES FRACTIONAL ± DECIMAL ±.25					
MAG-IGN.-START TOGGLE SWITCH													551862

EX-14416

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Littelfuse:](#)

[551846](#)