MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

GENERAL NOTES:

(I) MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

1.- MIAMI BUS SHELTER SLIM VERSION SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE USING INFORMATION FROM A CURRENT MIAMI-DADE COUNTY NOA, WHICH CORRESPONDS TO A LARGER SHELTER SIZE IN ACCORDANCE WITH THE 2017 (6th EDITION) AND 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE.
DESIGN WIND LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH SECTION 1620 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED OF 175 M.P.H. AND IN ACCORDANCE WITH ASCE 7-10 (FBC 2017) & ASCE 7-16 (FBC 2020) STANDARD.
TESTING FOR WIND CAPACITY HAS BEEN PERFORMED IN ACCORDANCE OF TAS-202 AND AS PER ASTM E-330 STANDARD, PER FENESTRATION TESTING LAB REPORTS # 3867, 3795, 3891, 3901 AND 3925. THIS STRUCTURE SHALL ONLY BE INSTALLED WHERE A.S.D. DESIGN WIND LOADS DO NOT EXCEED THE MAXIMUM VALUES INDICATED BELOW.
MAXIMUM A.S.D. DESIGN LOADS ARE:
DEAD LOADS ON STRUCTURAL ROOF: 5.0 P.S.F.
LIVE LOADS ON STRUCTURAL ROOF: 30 P.S.F.
MAX. A.S.D. DESIGN PRESSURE RATING FOR WIND:
- ON STRUCTURAL ROOF: +60, -60 P.S.F. (S.F.=2.00)
- ON REAR GLASS WALL: +50, -61 P.S.F. (S.F.=1.50)

2.- ALL STEEL POSTS AND PLATES TO BE MADE OF AISI 304 SERIES WITH A MINIMUM YIELD STRENGTH OF 42.0 ksi.

3.- ALL ALUMINUM EXTRUSIONS SHALL BE MADE OF A MINIMUM ALUMINUM ASSOCIATION ALLOY AND TEMPER CORRESPONDING TO 6063-T5.

4. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2015 ALUMINUM DESIGN MANUAL.

5. BENCH MATERIAL SHALL BE ASTM A-1011 HOT ROLLED STEEL, W/ A MINIMUM YIELD STRENGTH OF 40.0 ksi , PAINTED AS PER FEDERAL SPECIFICATIONS CORRESPONDING TO RED OXIDE PAINT OR EQUAL. MATERIAL TO BE COATED WITH DENFLEX PX-12412 PVC PLASTISOL COATING, 0.125" THICK, AS MANUFACTURED BY POLYONE, CHICAGO, ILLINOIS W/ 10.4 Lb/Gallon DENSITY, 2300 psi TENSILE STRENGTH (ASTM D-412), 419 ppi TEAR STRENGTH (ASTM D-624).
COATING WAS EXPOSED FOR 1000 hrs. IN A QUV ULTRAVIOLET CHAMBER, RESULTING ON SOME LOSS OF GLOSS BUT NO PHYSICAL PROPERTY DEGRADATION. COATING SHALL MAINTAIN A COMFORTABLE TEMPERATURE OF BENCH'S SURFACE UNDER EXTREME WEATHER CONDITIONS (HOT OR COLD).
THIS ENGINEER IS NOT RESPONSIBLE FOR THE THERMAL PERFORMANCE OF THIS COATING, WHICH SHALL BE GUARANTEED BY THE COATING MANUFACTURER.
MAXIMUM BENCH CAPACITY IS 640 Lbs.

6.- ALL MACHINE SCREWS & BOLTS TO BE AISI 304 OR 316 SERIES STAINLESS STEEL. MINIMUM SHEAR STRENGTH SHALL BE 60.0 ksi. MINIMUM TENSILE STRENGTH SHALL BE 90.0 ksi. AS PER ASTM A-276 STANDARD. ALL SHEET METAL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

7.- ALL RIVETS TO BE STAINLESS STEEL WITH A MINIMUM OF 550 LB. SHEAR STRENGTH AND 700 LB. MINIMUM TENSILE STRENGTH.

8.- ALL WELDING OF STAINLESS STEEL MEMBERS SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY AWS D1.6 REGULATIONS. ELECTRODES SHALL BE MADE OF STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60.0 ksi (A.W.S. CLASSIFICATION E-308, E309 OR EQUAL. ALL WELDING OF ALUMINUM MEMBERS TO CONFORM WITH THE AMERICAN WELDING SOCIETY A.W.S. D.1.2 REGULATIONS. USE E-5556 OR 5356 ELECTRODES. USE CERTIFIED WELDERS.

9.- STRUCTURAL INSULATED ROOF PANEL IS A 3" THICK 1LB/FT³ DENSITY EXPANDED POLYSTYRENE AS MANUFACTURED BY DYPLAST PRODUCTS LLC., W/ MIAMI DADE COUNTY PRODUCT APPROVED, WITH 0.035" THICK. (STUCCO EMBOSSED) 3003-H154, ALUMINUM SKIN (W/ A MINIMUM YIELD STRENGTH OF 28.00 ksi) TOP AND BOTTOM AND ADHERED TO POLYSTYRENE TO SKIN WITH MOR-AD M-464 URETHANE PREPOLYMER SOLUTION, PRODUCED BY MORTON INTERNATIONAL, INC. CHICAGO, ILLINOIS 60606-1598.

10.- GLASS AT REAR WALL OF BUS SHELTER SHALL BE 10mm THICK, TEMPERED AND SHALL COMPLY WITH 16CFR-1201.

11.- ANCHORS USED TO CONNECT POST'S BASE PLATES TO CONCRETE FOUNDATION SHALL BE EITHER OF THE FOLLOWING TYPES:

(a.) 5/8" DIAMETER GALVANIZED STEEL ANCHOR BOLTS, WITH STRAIGHT SHAFT, HEAD AND NUT. TO COMPLY WITH ASTM F1554, GALVANIZED TO ASTM A-153 WITH A MINIMUM YIELD STRENGTH OF 36ksi, AND TO PENETRATE A MINIMUM OF 8" IN TO THE EPOXY TO THE CONCRETE FOUNDATION.
MINIMUM A.S.D. TENSION LOAD CAPACITY: 6200 LB.
MINIMUM A.S.D. SHEAR LOAD CAPACITY: 3100 LB.
ANCHORS SHALL BE INSTALLED STRICTLY FOLLOWING THE SPECIFICATIONS OF THE ANCHOR MANUFACTURER AND THE DETAILS SHOWN ON THIS PRODUCT APPROVAL DOCUMENT.

12.- ALL CONCRETE TO DEVELOP A 28 DAY MINIMUM COMPRESSIVE STRENGTH f'c OF 3000 psi. ALL REBARS TO BE ASTM A-615 DEFORMED BARS. ALL CONCRETE CONSTRUCTION TO COMPLY WITH ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

13.- REQUIRED FRAMING FOR INSTALLATION OF SHELTER WITHIN EXPOSURES C OR D AS DEFINED BY ASCE 7-10 (FBC 2017) & ASCE 7-16 (FBC 2020) STANDARD SHALL BE PROVIDED BASED ON SCHEDULE ON SHEET 4 OF 15 OF THIS DRAWING.

(II) MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

1.- ALL MECHANICAL DETAILS AND SPECIFICATIONS, AS APPLICABLE, ARE NOT PART OF THIS DRAWING. THEY SHALL BE PREPARED A FLORIDA REGISTERED ENGINEER OR ARCHITECT AND SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

2.- ALL ZONING DETAILS AND SPECIFICATIONS NEEDED FOR THE LOCATION, USE AND CONSTRUCTION OF BUS SHELTER SLIM VERSION IS NOT PART OF THIS DRAWING AND SHALL BE SUBMITTED SEPARATELY TO THE CORRESPONDING ZONING DEPARTMENT IN ORDER TO ISSUE A PERMIT FOR CONSTRUCTION.

3.- MINIMUM SOIL BEARING CAPACITY SHALL BE 2000 P.S.F.

4.- SHELTER'S DIMENSIONS HAVE BEEN PROVIDED TO THIS OFFICE BY MIAMI DADE COUNTY TRANSIT DEPARTMENT AND THEY NOT HAVE BEEN ESTABLISHED BY THIS OFFICE.

5.- (a.) THIS DRAWING PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE DRAWING.

(b.) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS DRAWING PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c.) THIS DRAWING WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d.) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE DRAWING. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THIS ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e.) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

6.- FINISH COLOR FOR BUS SHELTER SLIM VERSION IS NOT PART OF THIS DRAWING, BUT SHALL BE DEFINED AS PER AGREEMENT BETWEEN MANUFACTURER AND OWNER OF BUS SHELTER.

7. THIS DRAWING IS A GENERIC STRUCTURAL DRAWING AND DOES NOT CONSTITUTE AT ALL A SHOP DRAWING FOR THE DIRECT MANUFACTURING OF THIS BUS SHELTER.

8. LABELING OF THIS PRODUCT SHALL COMPLY W/ MIAMI DADE COUNTY REGULATIONS.

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 20-0922.02
Expiration Date 10/22/2025
By Miami Dade Product Control
MIAMI DADE COUNTY

P.E. SEAL/SIGNATURE/DATE

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305,
VIRGINIA GARDENS, Fl. 33166
Phone:(305)871-1630. Fax:(305)871-1531
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CA-0006719
WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

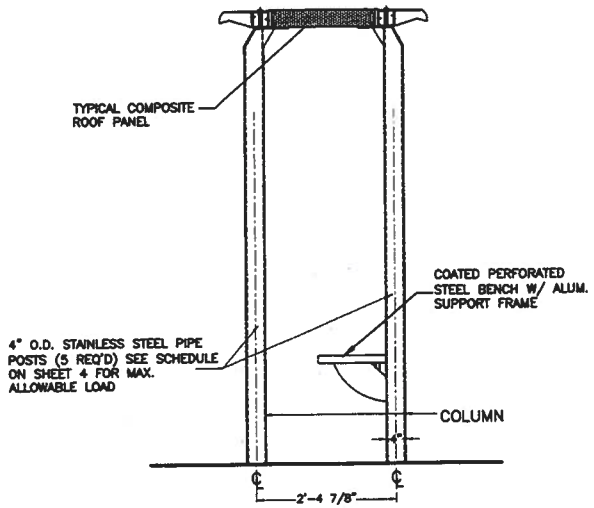
MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

GENERAL NOTES

OUTFRONT MEDIA, INC.
6530 NW 23rd Street
Doral, FL 33122
Phone (786) 646-6136

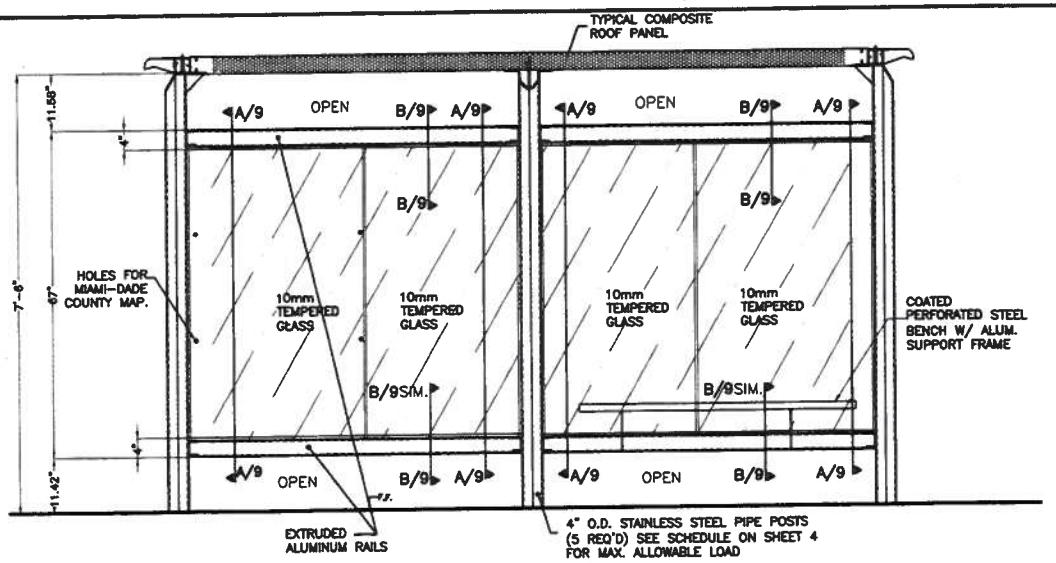
No.	Date	Description	Revisions
1	9/3/2020	SUB 19-120	

DRAWN BY: M.P.
DATE: 9/3/2020
DRAWING No. 20-033
SHEET 1 OF 15



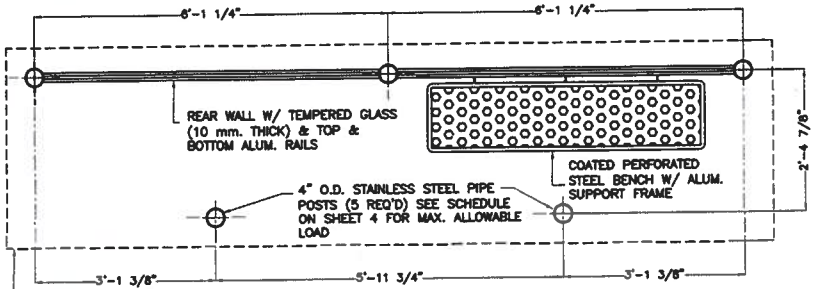
RIGHT SIDE ELEVATION

SCALE:1/2"=1'-0"



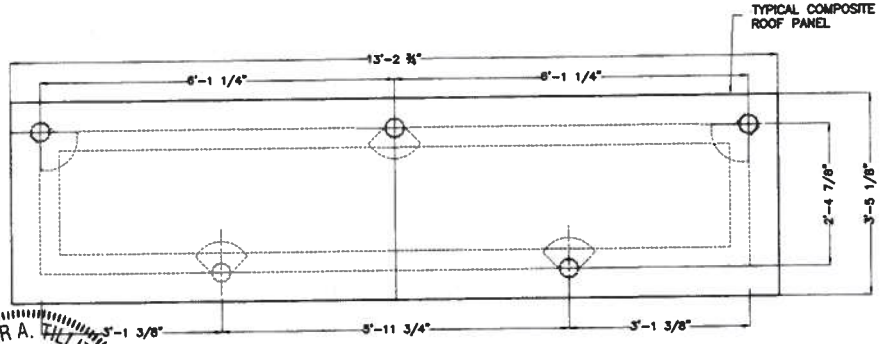
REAR WALL ELEVATION

SCALE:1/2"=1'-0"



FLOOR PLAN

SCALE:1/2"=1'-0"



ROOF PLAN

SCALE:1/2"=1'-0"

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 20-0922.02
Expiration Date 12/11/2025
By Miami-Dade Product Control

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

MIAMI DADE COUNTY | P.E. SEAL/SIGNATURE/DATE

TILLIT TESTING & ENGINEERING COMPANY
8365 N.W. 36th. St., Ste. 305,
VIRGINIA GARDENS, Fl. 33166
Phone:(305)871-1530. Fax:(305)871-1531
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WALTER A. TILLIT Jr., P. E.
FLORIDA Lic. # 44167

MIAMI BUS SHELTER SLIM VERSION W/O OPPI PAL-LI SOLAR DISPLAY PANEL

PLANS & ELEVATIONS

OUTFRONT MEDIA, INC.
6530 NW 23rd Street
Doral, FL 33122
Phone (786) 648-9136

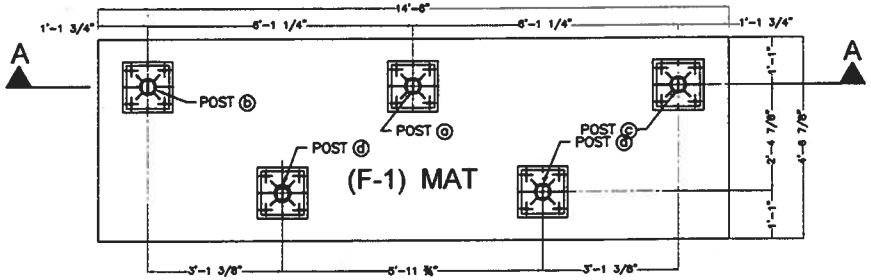
No.	Date	Description / Revisions
1	9/3/2020	90 MPH

DRAWN BY: M.P.

DATE: 9/3/2020

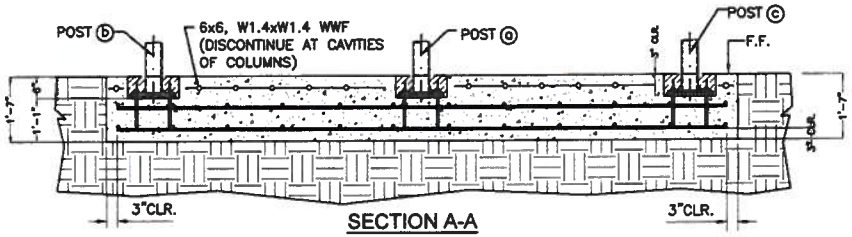
20-033
DRAWING No.

SHEET 2 OF 15



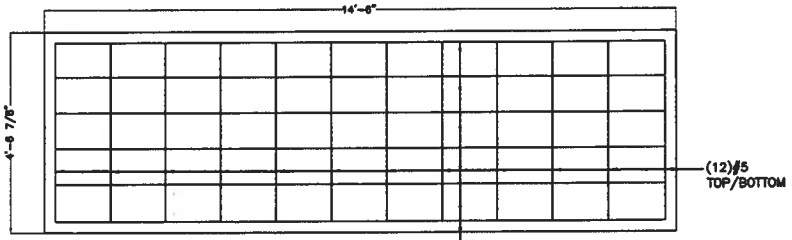
MAT FOUNDATION PLAN BUS SHELTER

(f'c = 3ksi CONCRETE)
SCALE: 3/8" = 1'-0"



SECTION A-A

SCALE: 3/8"=1'-0"



DETAIL 1

TOP / BOTTOM REINFORCEMENT
FOR 19" THICK CONCRETE MAT.
(TOP WWF NOT SHOWN FOR CLARITY)

FOUNDATION NOTES:

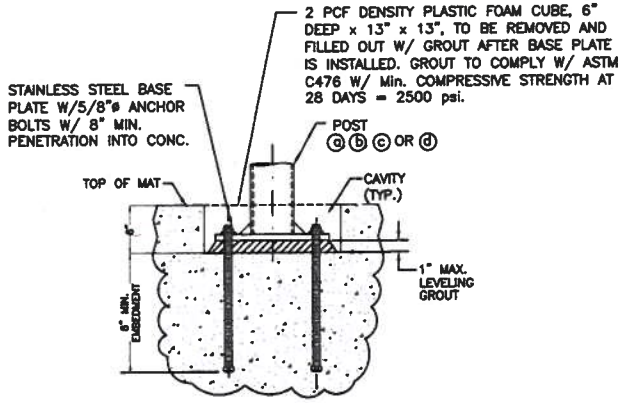
1.–THE ELEVATION OF CAVITIES LEFT FOR POST'S BASE PLATES (SEE DETAILS) SHALL BE A MINIMUM OF 6" BELOW THE TOP OF THE BUS SHELTER FINISHED FLOOR SLAB.

2.–REINFORCEMENT STEEL SHOULD BE AS INDICATED ON FOOTING SCHEDULE:

3.–SEE GENERAL NOTES ON SHEET 1 OF 15 FOR ADDITIONAL SPECIFICATIONS & NOTES.

4.–SEE SHEETS 6, 7 & 8 FOR POST/BASE, PLATE SPECIFICATIONS FOR BUS SHELTER.

FOOTING SCHEDULE			
NUMBER	DIMENSION (WxL)	DEPTH	STEEL REINFORCEMENT
F-1	4'–6 7/8"x14'–6"	1'–7"	(12) #5 @ 16" MAX. O.C. @ 14'–6" DIRECTION, TOP / BOTTOM. & (6) #5 @ 11" MAX. O.C. 4'–6 7/8" DIRECTION, TOP / BOTTOM.



TYPICAL POST CONNECTION

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 20-0922.02
Expiration Date: 9/22/2025
By: Miami-Dade County
MIAMI DADE COUNTY

WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER

P.E. SEAL/SIGNATURE/DATE

TILLECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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MIAMI BUS SHELTER
SLIM VERSION
W/O OPPI PAL-LI
SOLAR DISPLAY PANEL

FOUNDATION PLAN & SCHEDULE

OUTFRONT MEDIA, INC.
6530 NW 23rd Street
Doral, FL 33122
Phone (786) 646-9136

No.	Date	Description: Revisions
1	9/3/2020	9.0 1E-135

DRAWN BY: M.P.
9/3/2020
DATE.
20-033
DRAWING No.
SHEET 3 OF 15