

MATERIALS			
MATERIAL PATTERN	MATERIAL NAME	MATERIAL PATTERN	MATERIAL NAME
	EXST'G MATERIAL TO REMAIN		GROUT/MORTAR
	EXST'G MATERIAL TO BE REMOVED		STEEL
	COMPACTED FILL		STEEL REINFORCING
	TOP SOIL		SOLID WD BLOCKING
	CRUSHED STONE		ENGINEER LUMBER
	CONCRETE		RIGID INSULATION

GENERAL SYMBOLS	
	DETAIL NUMBER. DRAWING NUMBER WHICH DETAIL IS KEYED FROM
	ELEVATION NUMBER. DRAWING NUMBER WHICH DETAIL IS KEYED FROM
	SECTION NUMBER. DRAWING NUMBER WHICH DETAIL IS KEYED FROM
	DETAIL NUMBER TITLE SCALE: DRAWING NUMBER WHICH DETAIL IS KEYED FROM
	REVISION CLOUD

ABBREVIATIONS	
AT NUMBER	LEN LENGTH
A/C AIR CONDITIONING	LF LINEAR FOOT
AQ AMERICAN CONCRETE INSTITUTE	MAS MASONRY
AD ACCESS DOOR	MAX MAXIMUM
AFB ABOVE FINISH FLOOR	MECH MECHANICAL
ALUM ALUMINUM	MIN MINIMUM
ANSI AMERICAN NATIONAL STANDARD INSTITUTE	MISC MISCELLANEOUS
APPV APPROVED	MO MOUNT
ARCH ARCHITECT(URAL)	MTD MOUNTED
ASPH ASPHALT	MTL METAL
BD BOARD	N NORTH
BITUM BITUMINOUS	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
BLDG(S) BUILDINGS	NJ NEW JERSEY
BLK BLOCK	NIC NOT IN CONTRACT
BLKG BLOCKING	NTS NOT IN SCALE
BOT BOTTOM	OC ON CENTER
B.O. BOTTOM OF	O.D. OUTSIDE DIAMETER
BM BEAM	OPNG OPENING
BR BOTTOM REGISTER	OPP OPPOSITE
CF CUBIC FOOT	PNL PANEL
CG CORNER GUARD	PNT POINT
CL CENTER LINE	PSI POUNDS PER SQUARE INCH
CLF CHAIN LINK FENCE	RA RETURN AIR
CLG CEILING	RAD RADIUS
CLKG CAULKING	RD ROOF DRAIN
CL CLOSET	REF REFERENCE
CLR CLEAR	REQD REQUIRED
CMU CONCRETE MASONRY UNIT	REV REVISION
COL COLUMN	RFG ROOFING
CONC CONCRETE	RM ROOM
CONST CONSTRUCTION	S SOUTH
CONT CONTINUOUS	SCH SCHEDULE
CU CUBIC	SEC SECTION
CY CUBIC YARD	SF SQUARE FOOT
DET DETAIL	SIM SIMILAR
DIAM DIAMETER	SPEC SPECIFICATION
DM DIMENSION	SPECS SPECIFICATIONS
DIR DIRECTOR	SO SQUARE
DN DOWN	ST STL STAINLESS STEEL
DOOR DOOR	STD STANDARD
DEPT DEPARTMENT	STL STEEL
DOT OF TRANSPORTATION	STR STRUCTURAL
DWG DRAWING	SYS SYSTEM
E EAST	TEMP TEMPORARY
EA EACH	THK THICKNESS
EL(EV) ELEVATION	TYP TYPICAL
ELEC ELECTRIC(AL)	UON UNLESS OTHERWISE NOTED
EQ EQUAL	VERT VERTICAL
EQPT EQUIPMENT	VF VERIFY IN FIELD
ETR EXISTING TO REMAIN	W WEST
EXG EXISTING	W/ WITH
EXH EXHAUST	WD WOOD
EXP JT EXPANSION JOINT	WWF WELDED WIRE FABRIC
EXT EXTERIOR	
FABC FINE ASPHALTIC BITUMINOUS CONCRETE FINISH(ED)	
FIN FIXTURE	
FL FLOOR	
FND FOUNDATION	
FT FOOT	
GA GAUGE	
GALV GALVANIZED	
GRND GROUND	
HORZ HORIZONTAL	
HT HEIGHT	
I.D. INSIDE DIAMETER	
INCL INCLUDE(D), INCLUDING	
INSUL INSULATE, INSULATION	
INT INTERIOR	
JT JOINT	

CONSULTANT INFORMATION	
ARCHITECT: STONEWATER ARCHITECTURE, LLC P.O. BOX 208 COLONIA NJ, 07067 PHONE# 908-380-2496	MEP CONSULTANT: BECHT ENGINEERING BT, INC. 410 RICHMOND AVE. POINT PLEASANT BEACH, NJ 08742 JOSEPH LICHON P. 1-732-714-8900 JLICHON@BECHTBT.COM
PROJECT ARCHITECT CONTACT: MICHAEL A. MORITZ MICHAEL@STONEWATERARCHITECTURE.COM PHONE# 908-380-2496	STRUCTURAL CONSULTANT: BECHT ENGINEERING BT, INC. 150 ALLEN ROAD, SUITE 301 BASKING RIDGE, NJ 07920 RICK BURKE P. 1-800-772-7991 RBURKE@BECHTBT.COM
SITE & CIVIL ENGINEER: MASER CONSULTING, PA 331 NEWMAN SPRINGS ROAD, SUITE 203 RED BANK, NJ 07870 DEREK JORDAN P. 1-732-383-1950 DJORDAN@MASERCONSULTING.COM	

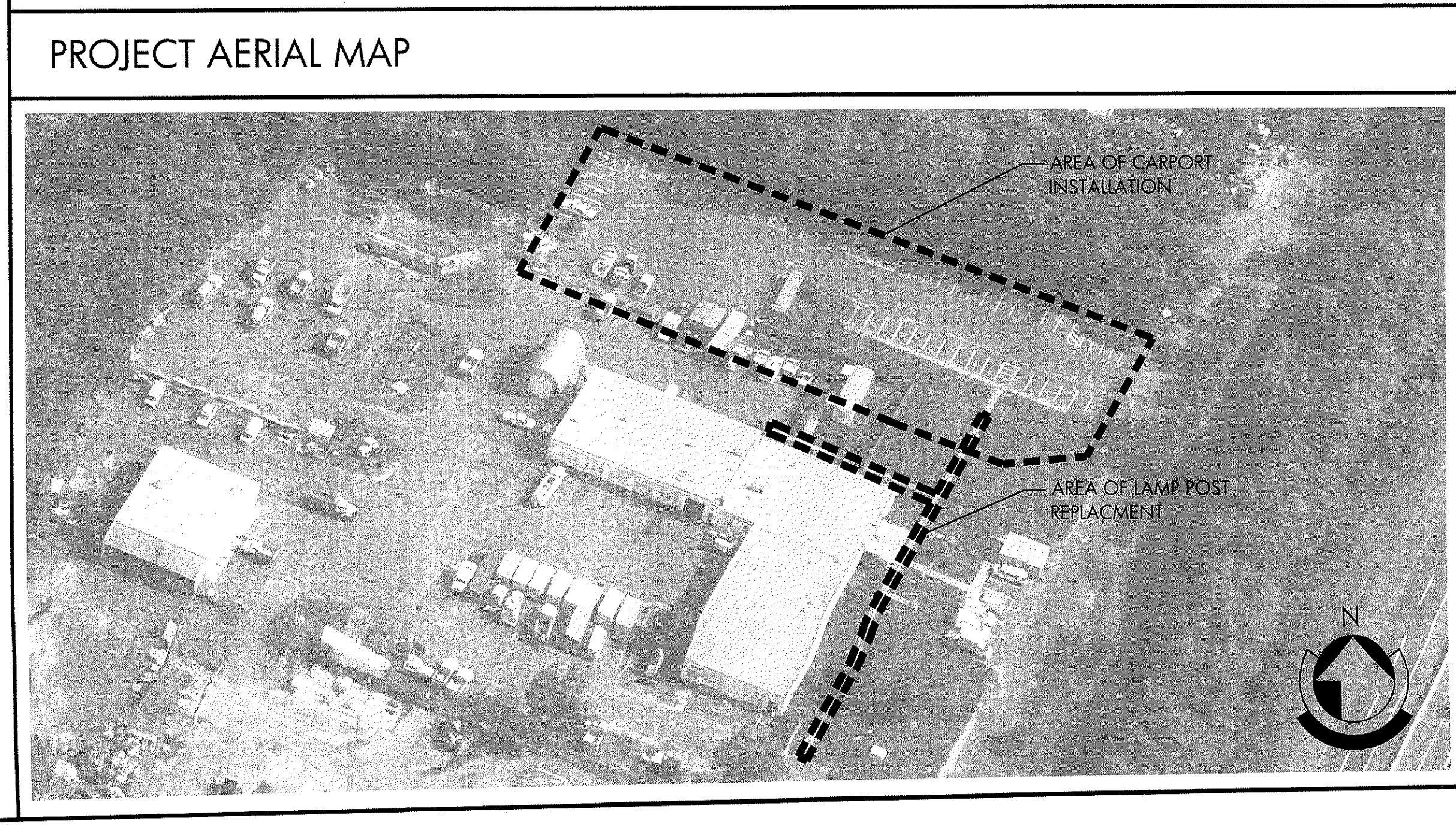
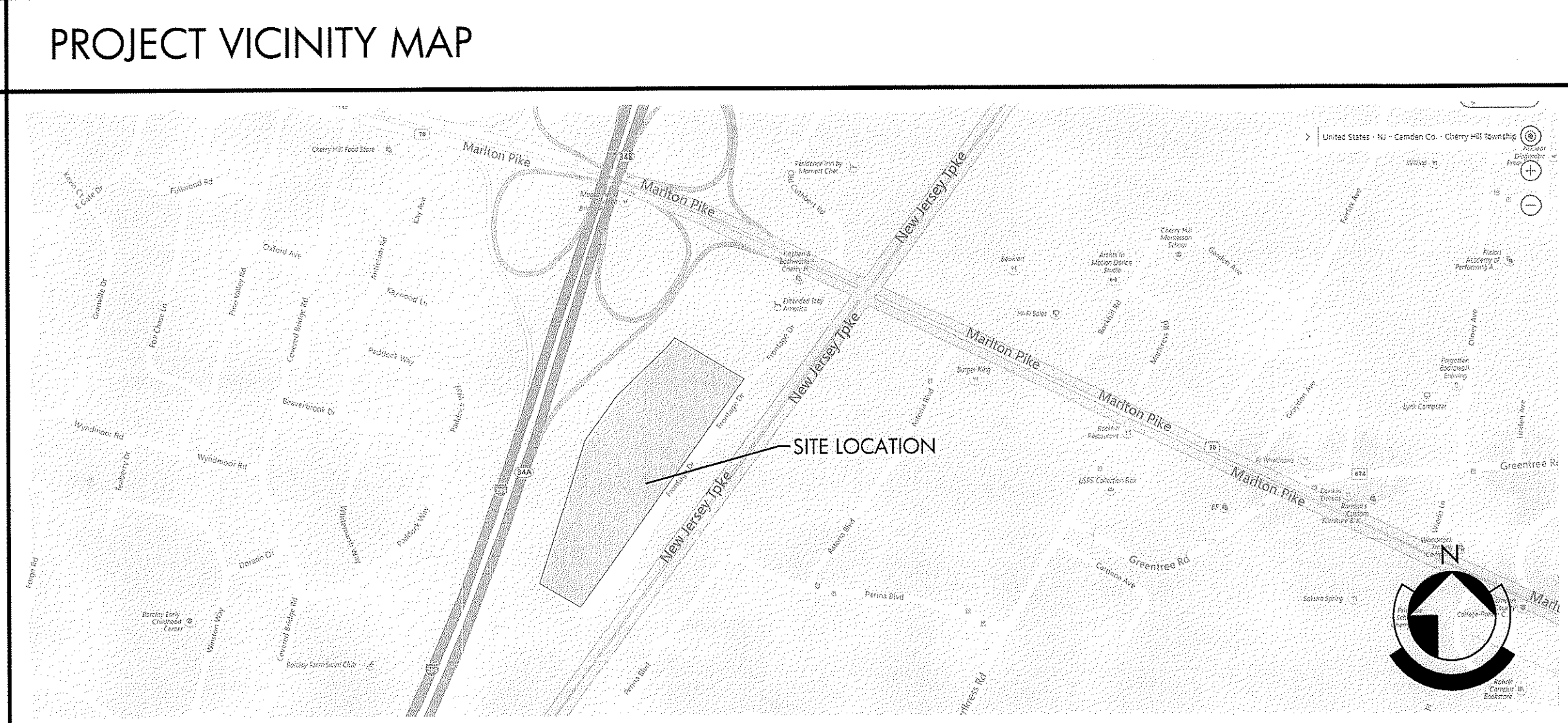
PROJECT INFORMATION	
DPMC REPRESENTATIVE: CRISTINA ZOZZARO, MPA, DESIGN MANAGER P. 1-609-777-4273	NEW JERSEY DEPARTMENT OF THE TREASURY DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION, DPMC 20 WEST STATE STREET, 3RD FLOOR TRENTON, NJ 08625
DEPARTMENT OF TRANSPORTATION JITENDRA PATEL SENIOR MANAGER P. 1-609-530-5466	DEPARTMENT OF TRANSPORTATION 1035 PARKWAY AVENUE, P.O. BOX 600 TRENTON, NEW JERSEY 08625

SH. #	TITLE
T001.00	TITLE SHEET
C001.0	NOTES LEGEND & PARKING LOT SURVEY
C002.0	SITE DEMOLITION PLAN
C003.0	SITE CONSTRUCTION PLAN
C004.0	GRADING PLAN
C005.0	CONSTRUCTION DETAILS
A001.00	PLOT PLAN & TAX MAP
A002.00	AREA OF WORK KEY PLAN
A003.00	FENCING DETAILS
A004.00	ENTRY GATE DETAILS
A100.00	PART SITE PLAN CARPORT INSTALLATION
A101.00	CARPORT PLAN PART 1 OF 2
A102.00	CARPORT PLAN PART 2 OF 2
A103.00	ROOF PLAN PART 1 OF 2
A104.00	ROOF PLAN PART 2 OF 2
A105.00	REFLECTED CEILING PLAN 1 OF 2
A106.00	REFLECTED CEILING PLAN 2 OF 2
A110.00	LIGHT POLE REPLACEMENT SITE PLAN & ELEVATION
A120.00	STORAGE AREA PLANS, ELEVATIONS & DETAILS
A201.00	ELEVATIONS
A202.00	ELEVATIONS
A401.00	CROSS SECTION
A402.00	SECTIONS & DETAILS
A501.00	ROOF DETAILS
S100.00	GENERAL NOTES, KEY PLAN & FOUNDATION PLAN
S101.00	FRAMING PLAN, SECTIONS & DETAILS
S102.00	SECTIONS & DETAILS
E001.00	ELECTRICAL SYMBOLS AND SPECIFICATIONS
E002.00	ELECTRICAL ABVS, RISERS, SCHEDS AND DETAILS
E003.00	ELECTRICAL FIXTURE SPECIFICATIONS AND DETAILS
ESU001	ELECTRICAL SITE PLAN
E101.00	ELECTRICAL CARPORT SITE PLAN AND DETAILS
E102.00	ELECTRICAL FLOOR PLAN DETAILS

STATE OF NEW JERSEY
CARPORT INSTALLATION FOR THE:
NJDOT Cherry Hill Maintenance Yard,
1100 Frontage Road South
Cherry Hill, NJ 08002 - Camden County
Project No. T0583-00

State of New Jersey
Honorable Philip D. Murphy, Governor
Honorable Sheila Y. Oliver, Lieutenant Governor

Department of the Treasury
Elizabeth Maher Muoio, State Treasurer
Division of Property Management and Construction
Christopher Chianese, Director



PROJECT DATA	
APPLICABLE CODES: NEW JERSEY UNIFORM CONSTRUCTION CODE 5:23 BUILDING CODE NJBC 2015 PLUMBING CODE NSPC 2015 ELECTRICAL SUBCODE NEC 2014 ENERGY SUBCODE EEC 2015 BARRIER FREE SUBCODE ASHREA 90.1-2013 ICC/117.1-2009	NEW CONSTRUCTION OF TWO FREESTANDING PARKING GARAGES
JOB TYPE: BUILDING CHARACTERISTICS: USE GROUP CLASSIFICATION: 30 SPACE PARKING GARAGE #1 14 SPACE PARKING GARAGE #2 STORAGE CONTAINERS	S-1 S-2 S-1
CONSTRUCTION TYPE: 30 SPACE PARKING GARAGE #1 14 SPACE PARKING GARAGE #2 STORAGE CONTAINERS	IB IB
BUILDING AREA: 30 SPACE PARKING GARAGE #1 (5) STORAGE CONTAINERS @ 160 SQ.FT. TOTAL AREA	10,000 SQ.FT. UNDER ROOF 800 SQ.FT. 10,800 SQ.FT.
14 SPACE PARKING GARAGE #2	4,800 SQ.FT. UNDER ROOF
STRUCTURE HEIGHT: 30 SPACE PARKING GARAGE #1 14 SPACE PARKING GARAGE #2 STORAGE CONTAINERS	17'-3" TO 21'-3" 17'-3" TO 21'-3" 9'-1"
TABLE 601 PARKING GARAGE FIRE-RESISTANCE RATING FIRE SUPPRESSION SYSTEM	0 PRIMARY STRUCTURAL FRAME NOT REQUIRED PER IBC 903.2.10 STRUCTURES LESS THEN 12,000 SQ.FT.
STORAGE CONTAINERS FIRE-RESISTANCE RATING FIRE SUPPRESSION SYSTEM	0 PRIMARY STRUCTURAL FRAME NOT REQUIRED
STRUCTURE STORIES PARKING GARAGE: STRUCTURE STORIES STORAGE CONTAINERS	NA 1
MAXIMUM OCCUPANCY PARKING GARAGE MAXIMUM OCCUPANCY STORAGE CONTAINERS	NA NA
VEHICLE PARKING SPACES: PARKING GARAGE #1 PARKING GARAGE #2 TOTAL	30 14 44
SQ.FT. & VOLUME: STRUCTURE 30 SPACE PARKING GARAGE #1 14 SPACE PARKING GARAGE #2	10,000 SQ.FT. ROOF AREA 4,800 SQ.FT.
PROPOSED VOLUME: STORAGE CONTAINERS	N/A 800 SQ.FT.
PROPOSED VOLUME STORAGE CONTAINERS:	7,200 CU.FT.
DESIGN LOADS SEE STRUCTURAL PLANS	
AS BUILT Date: 07/20/2020 Signature: [Signature] Aitec Building Systems Corp. 904 Atlantic Avenue Pt. Pleasant, NJ 08742 (732) 903-8264	
Revisions Date: Description: No. 03-15-18 Design Development 50% 04-28-18 Final Design Submission 05-21-18 Final Design Submission #2 07-16-18 Final Design Submission #3 07-31-18 Final Design Submission #4	
Issued Documents Date: Description: 03-15-18 Design Development 50% 04-28-18 Final Design Submission 05-21-18 Final Design Submission #2 07-16-18 Final Design Submission #3 07-31-18 Final Design Submission #4	
Seal & Signature Michael A. Moritz	
Drawing Title: Title Sheet Sheet: Drawing Number: T001.00	

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Michael@StonewaterArchitecture.com
NJ Lic. No. 21A1017266
NY Lic. No. 032102

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Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

New Jersey Department of the Treasury
Division of Property Management and Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625

Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:
Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

Key Plan

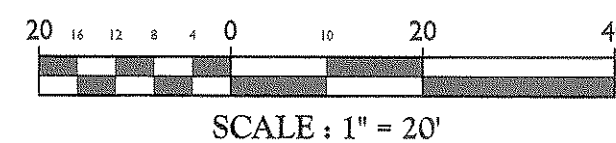
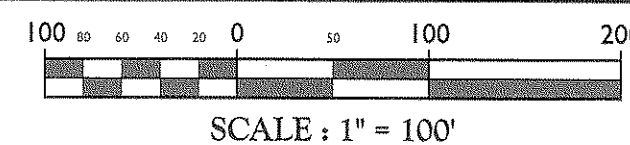
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07-31-18 Final Design Submission #4

Seal & Signature
Michael A. Moritz

Drawing Title:
Title Sheet
Sheet: Drawing Number:
T001.00

25. ALL TRAFFIC STRIPES AND MARKINGS SHALL BE LONG-LIFE THERMOPLASTIC.


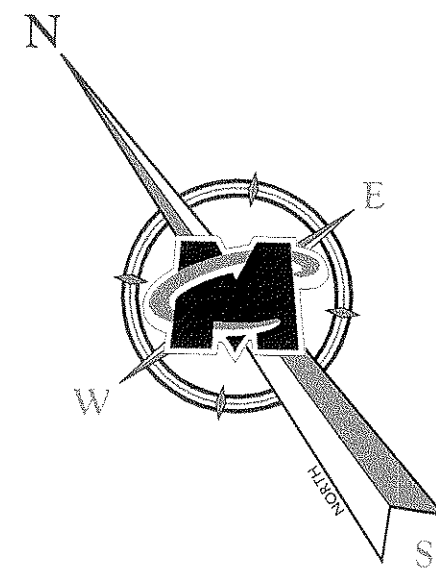


SHIPPING CONTAINERS TO BE
RELOCATED (SEE
ARCHITECTURAL DRAWINGS)

REMOVE GRASS AND TOPSOIL
FOR ASPHALT PAVEMENT

Phone: 732.383.1950
Fax: 732.383.1984

SHEET NUMBER:
C-001 of C-005



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JAMES A. PRIOLO
NEW JERSEY PROFESSIONAL
ENGINEER - LICENSE NUMBER: GE3714

CHERRY HILL
CARPORT

BLOCK 436.02
LOT 13

CHERRY HILL
CAMDEN COUNTY
NEW JERSEY



RED BANK OFFICE
Corporate Headquarters
331 Newman Springs Road
Suite 203
Red Bank, NJ 07701
Phone: 732.383.1950
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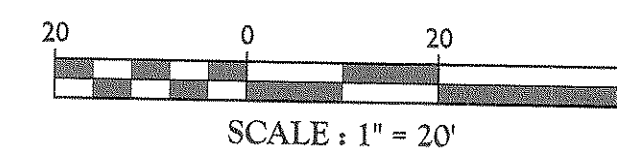
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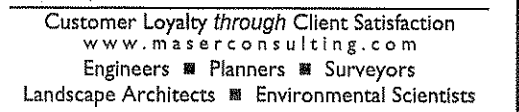
SHEET TITLE:

SITE DEMOLITION PLAN

SHEET NUMBER

C-002 of C-005



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CCCCCCCC

BLOCK 436.02
LOT 13

CAMDEN COUNTY
NEW JERSEY

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331 Newman Springs Road
Suite 203
Red Bank, NJ 07701

DATE:	DATE:	DRAWN BY:	CHECKED BY:
S SHOWN	2/28/18	CB	DJ

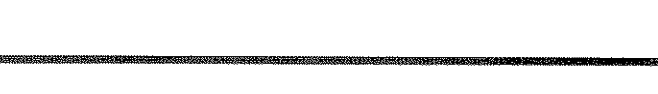
CONSTRUCTION PLAN

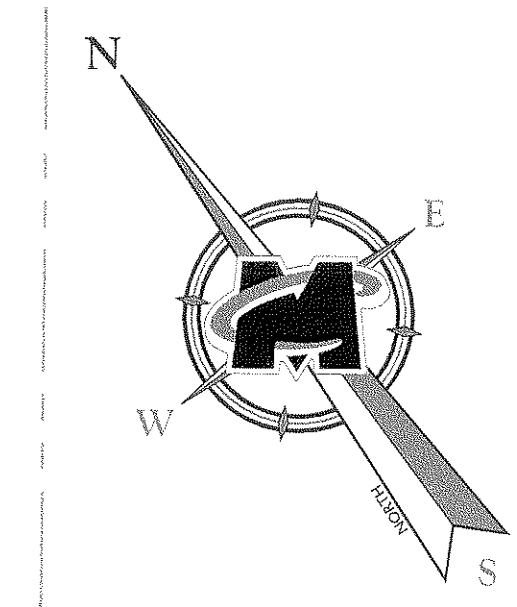
C-003.0 of C-005


PROVIDE NEW 2" FABC ASPHALT BASE W/ 4" BBC PAVEMENT.


I. ALL ITEMS AND WORK ON THESE DRAWINGS IS NEW WORK, AND/OR

Date: JAN 2020
Signature: [Signature]
Altec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264






JAMES A. PRIOLO
NEW JERSEY PROFESSIONAL
ENGINEER - LICENSE NUMBER: GE37143



RED BANK OFFICE
Corporate Headquarters
331 Newman Springs Road
Suite 203
Red Bank, NJ 07701

Phone: 732.383.1950
Fax: 732.383.1984

SHEET TITLE:

GRADING & UTILITY PLAN

SHEET NUMBER:
C-004 of C-005



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

- NOTES:
1. PREFORMED BITUMINOUS FIBER TRAVERSE JOINTS, 1/2" THICK AT 20' MAX. INTERVALS ALONG THE CURB.



NOTES

1. EXPOSED PORTIONS OF WALL TO BE RUBBED AND FLOATED.
2. ALL EDGES TO BE CHAMFERED 1 INCH.
3. FOR ARCH PIPE, USE WIDTH OF HEADWALL AS $3H \div \text{SPAN}$.
4. FOR MORE THAN ONE PIPE, CONTRACTOR TO SET THE PIPES AT A MINIMUM ONE FOOT APART (OUTSIDE TO OUTSIDE OF PIPES)
5. THE END OF THE HEADWALL SHALL BE SET 2 X DIAMETER OFF THE CENTERLINE OF THE CONTROLLING PIPE.



NOT TO SCALE

- NOTES:
1. CONCRETE - 5000 PSI MIN. STRENGTH @ 28 DAYS.
 2. STEEL REINFORCEMENT - ASTM A-615, GRADE 60
 3. COVER TO STEEL - 1" MINIMUM
 4. DESIGN LOADING - AASHTO HS20-44
 5. EARTH COVER - 0 TO 5 FEET



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
2. CLEANOUTS MUST BE 4" MINIMUM SIZE TO ACCOMMODATE ROOF LEADER.



NOT TO SCALE

ASBESTOS

CHANCE FROM MILD SMOKING DIPS TO 100%
FOR THERMAL APPLICATIONS CLASS I OR II MINERAL
CUMBERED TO (60%) SPD AND CLASS III CUMBERED
TO 95% SPD,
FOR THERMAL APPLICATIONS MINIMUM CASE 12/1
FOR INSULATED PIPE ONE W/REAPED FROM THE TOP
OF PIPE TO BOTTOM OF FLEXIBLE JOINTMENT.
CLASS IV MINERAL NOT RECOMMENDED
AS POTENTIAL FOR THERMAL MGMT.



NOT TO SCALE



NOT TO SCALE

- NOTE:**
1. INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.
 2. WATERTIGHT INJECTION MOLDED FITTINGS AND WATERTIGHT PIPE CAN BE SUBSTITUTED FOR WATERTIGHT APPLICATIONS.
 3. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
 4. CLEANOUTS TO BE 4" MINIMUM SIZE TO ACCOMMODATE ROOF LEADER.



NOT TO SCALE

- NOTE:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
 2. DOWNSPOUT MUST BE 4" MINIMUM SIZE TO ACCOMMODATE ROOF LEADER.



NOT TO SCALE

ASPAR EPI THU
DELETE LEADS
EATS AND
SPUSH BLOCK
RUN PIPE U/G
INTO ADJACENT
WORKS AREA.

AS BUILT

Date:

Signature: _____
Altec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264



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
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JAMES A. PRIOLO
NEW JERSEY PROFESSIONAL
ENGINEER - LICENSE NUMBER: GE37143

CHERRY HILL
CARPORT

BLOCK 436.02
LOT 13

CHERRY HILL
CAMDEN COUNTY
NEW JERSEY



RED BANK OFFICE
Corporate Headquarters
331 Newman Springs Road
Suite 203
Red Bank, NJ 07701
Phone: 732.383.1950
Fax: 732.382.1984

SCALE: AS SHOWN	DATE: 2/28/18	DRAWN BY: CB	CHECKED BY: DJ
PROJECT NUMBER: 17006320A		DRAWING NAME: C-DTLS	

CONSTRUCTION DETAILS

SHEET NUMBER: C-005 of C-005

17. THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING EXISTING MECHANICAL, ELECTRICAL, PLUMBING OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPECT THOSE AREAS, AND ASCERTAIN WORK NEEDED, AND DO THAT WORK IN ACCORD WITH THE CONTRACT REQUIREMENTS, AT NO ADDITIONAL COST.
18. ALL DRAWINGS SHALL BE FULLY COORDINATED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS; LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, REGLETS, BOLT SETTINGS, AND SLEEVES ETC.
19. DETAILS AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTED "TYPICAL" IMPLY ALL CONDITIONS ARE TREATED SIMILAR. MODIFICATIONS ARE TO BE MADE BY THE CONTRACTOR TO ACCOMMODATE MINOR VARIATIONS.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS OF SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES. THE CONTRACTOR SHALL RECORD ALL "AS-BUILT" CONDITIONS AND SUBMIT COPY TO ARCHITECT AT COMPLETION OF JOB.
21. UNLESS OTHERWISE NOTED, THE SUBJECT OF ALL IMPERATIVE SENTENCES IN THE SPECIFICATIONS AND THE DRAWINGS IS THE CONTRACTOR FOR EXAMPLE, "PROVIDE AND INSTALL," MEANS "CONTRACTOR SHALL PROVIDE AND INSTALL."
22. THE GENERAL CONTRACTOR SHALL LEAVE THE SITE COMPLETELY FREE OF DUST AND DEBRIS AT THE END OF EACH DAY.
23. THE GENERAL CONTRACTOR SHALL TAKE REASONABLE CARE TO VERIFY AND PROTECT ALL SERVICE LINES AND EXISTING SITE FEATURES FROM DAMAGE OR LOSS U.O.N..
24. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL APPROVAL. THE GENERAL CONTRACTOR SHALL SIGN THE WRITTEN GUARANTEE AS PROVIDED BY THE OWNER. THIS GUARANTEE SHALL COVER ALL OF THE GENERAL CONTRACTOR AND SUBCONTRACTOR WORK. ALL DEFECTS DISCOVERED DURING THE GUARANTEE PERIOD SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTORS EXPENSE.
25. ALL NOTES HEREIN MENTIONED INCLUDING NOTES ON ADDITIONAL DRAWINGS SHALL APPLY TO ALL DRAWINGS & FORM PART OF THE CONTRACT.
26. FOR ALL REFERENCES NOTED HEREIN ON THESE CONTRACT DOCUMENTS (CONTRACT DRAWINGS & SPECIFICATIONS) REFERENCES TO THE CONTRACTOR & GENERAL CONTRACTOR - SUCH REFERENCES SHALL BE INTERCHANGEABLE.
27. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS, LARGE SCALE DETAILS OVER SMALL, REPETITIVE FEATURES NOT COMPLETELY DESCRIBED &, OR, DETAILED SHALL BE CONSTRUCTED IN EXACT ACCORDANCE CORRESPONDING FEATURES THAT ARE COMPLETELY DESCRIBED OR DETAILED.
28. THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL EQUIPMENT & FURNISHINGS AS THE WORK PROGRESSES, SO LONG AS THERE IS NO INTERFERENCE WITH THE WORK OF THE CONTRACTORS.
29. ALL DIMENSIONS ARE ACTUAL.
30. ALL MATERIALS, EQUIPMENT & TYPES OR METHODS OF CONSTRUCTION SHALL IN NO EVENT BE LESS THAN THAT NECESSARY TO CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, LAWS, ETC., OF THE REQUIRED GOVERNING AUTHORITIES.
31. ALL EXPOSED CONDUIT PIPING SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
32. ALL EXTERIOR STEEL EXPOSED TO THE WEATHER SHALL BE GALVANIZED, PRIMED AND PAINTED.
33. CONTRACTOR SHALL FURNISH & INSTALL ANGLES, STRUTS, BRACKETS, TOGGLES, EYE BOLTS & ALL ACCESSORIES REQUIRED TO PROPERLY SUPPORT BRACE AND/OR REINFORCE ALL FINISHES, FRAMES, EQUIPMENT, ETC.

- COORDINATE THICKNESS OF ASPHALT W/ CIVIL DETAIL "ASPHALT PAVEMENT DETAIL"
ON C-005

S H E E T 266

Signature: _____
Altec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264

SCALE 1" = 60'

Date:	Description:	No

Date:	Description:
03-15-18	Design Development 50%
04-28-18	Final Design Submission
05-21-18	Final Design Submission #2
07-16-18	Final Design Submission #3

Michael A. Morin

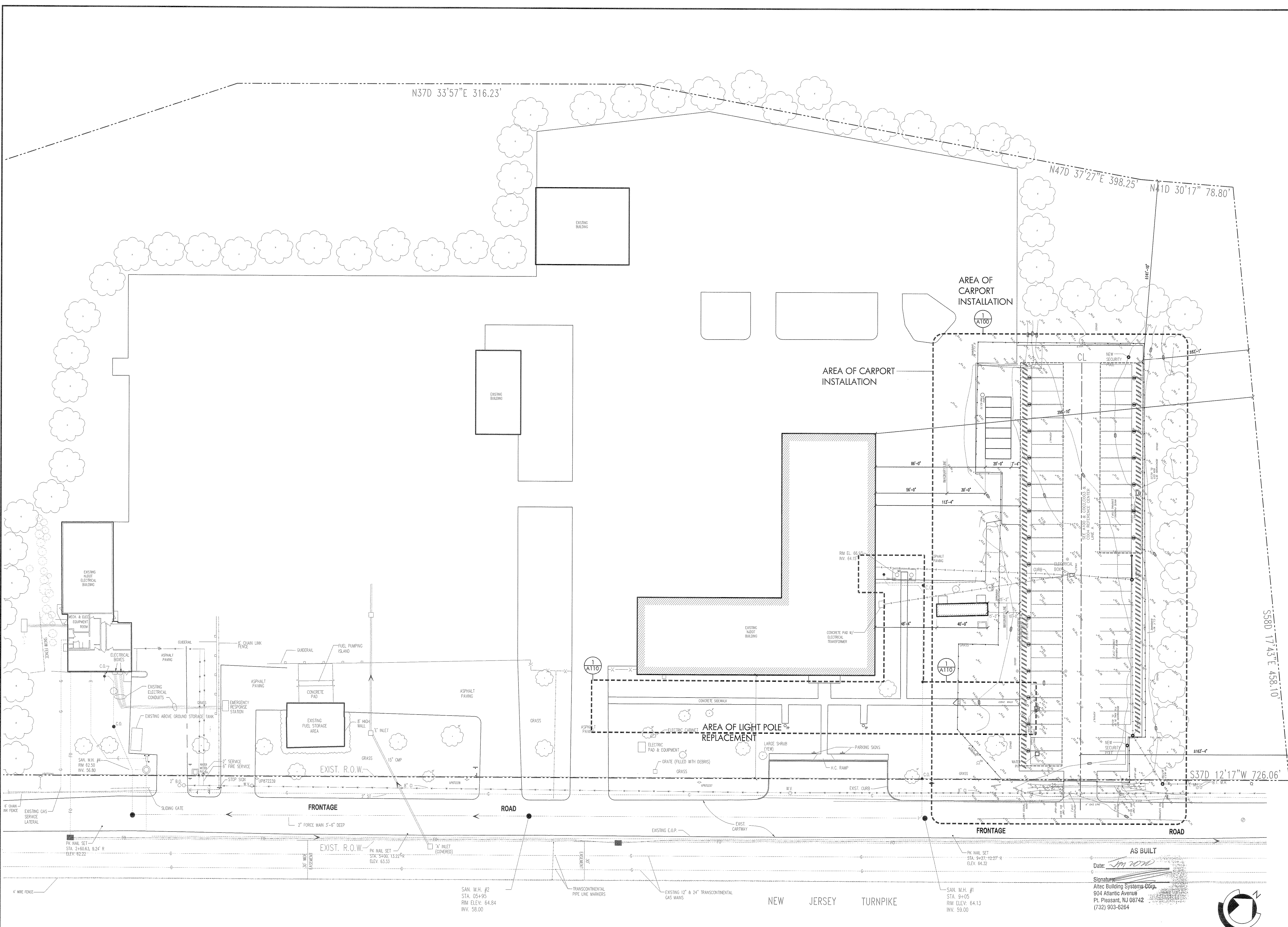
Plot Plan & Tax Map

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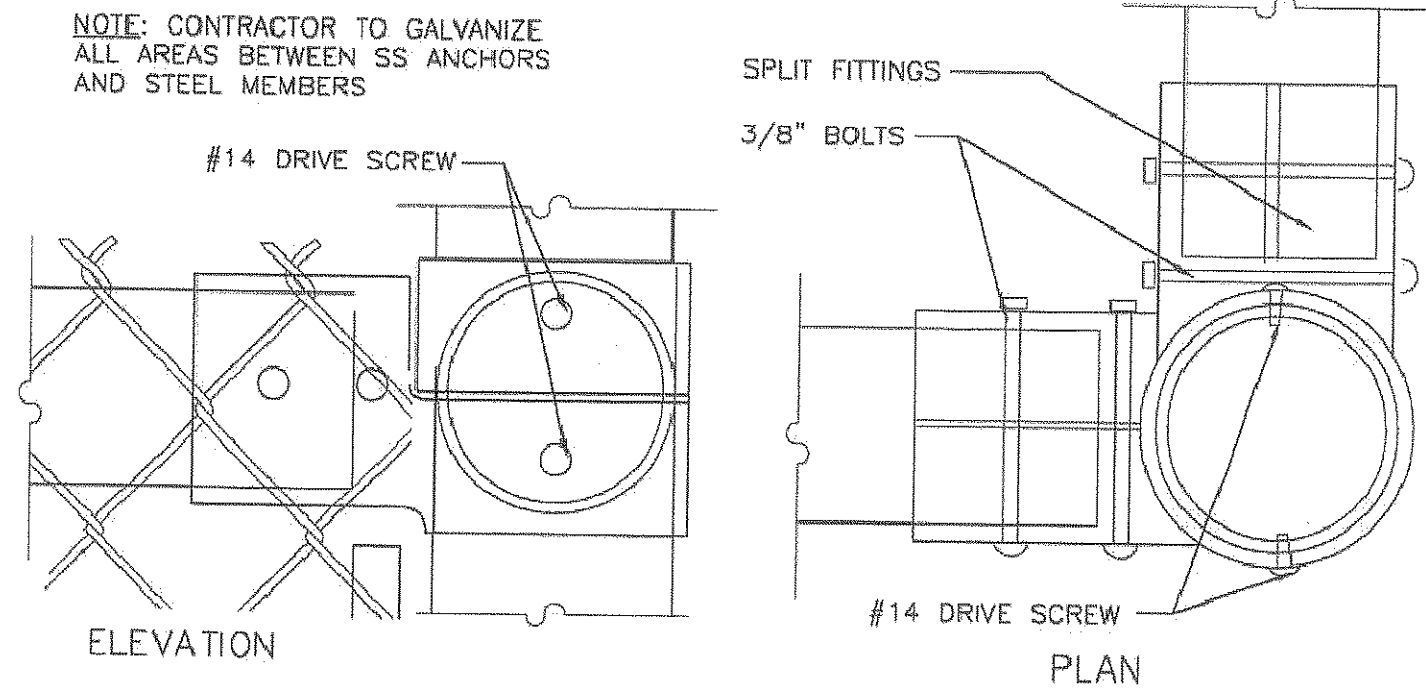
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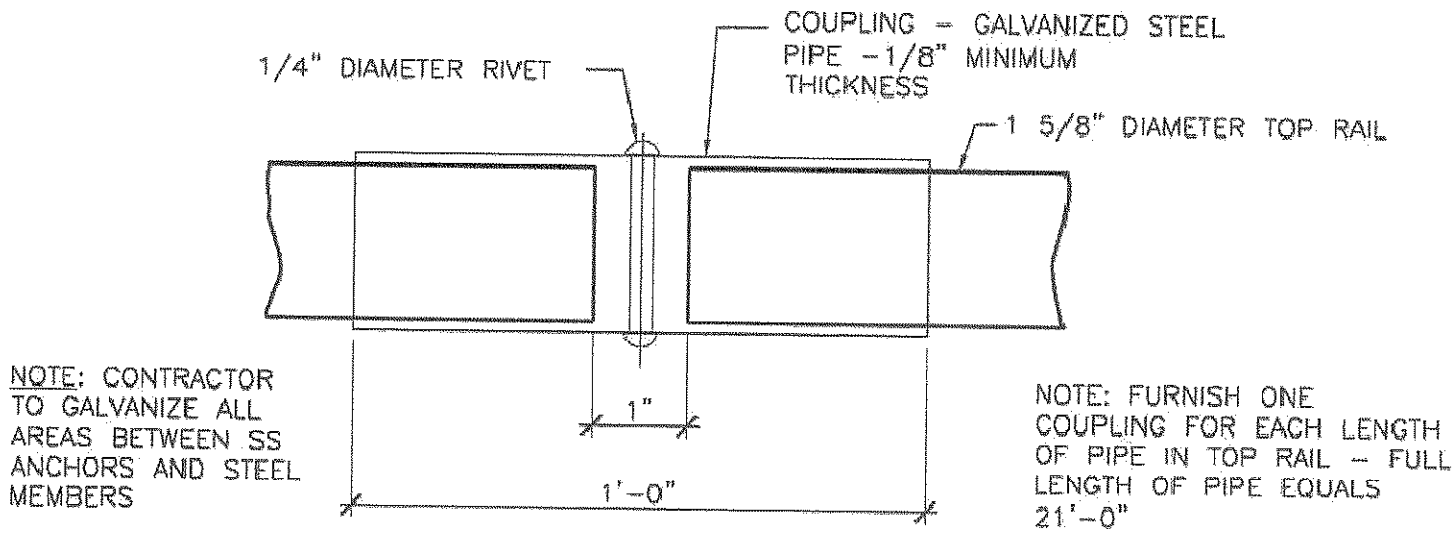
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Date:	Description:
03-15-18	Design Development 50%
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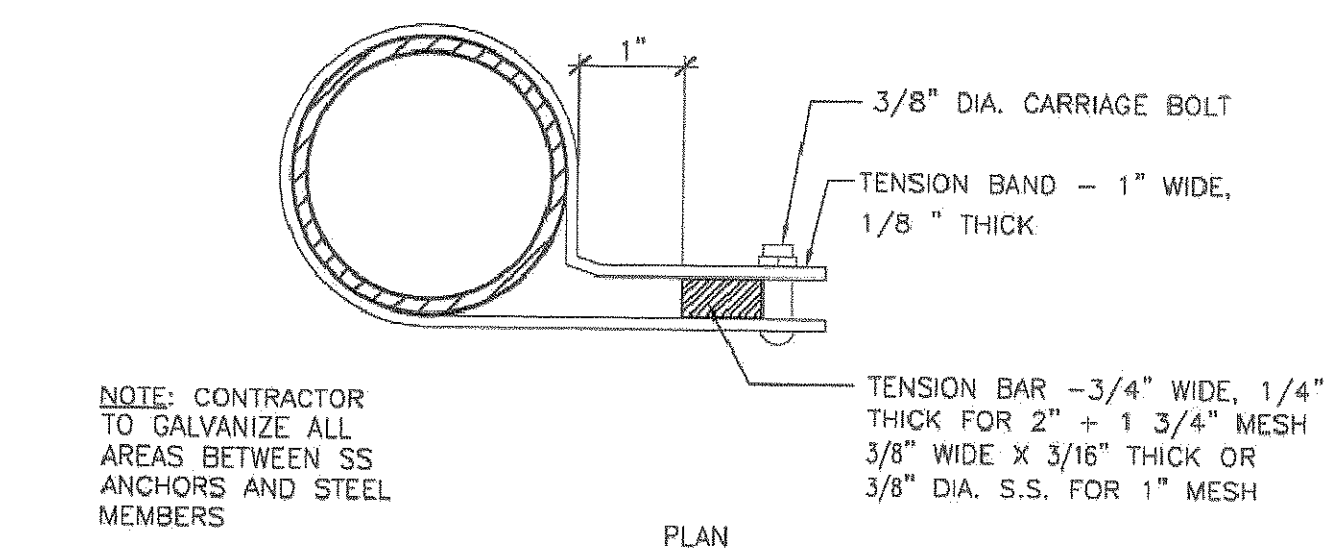
NOTE: CONTRACTOR TO GALVANIZE ALL AREAS BETWEEN SS ANCHORS AND STEEL MEMBERS



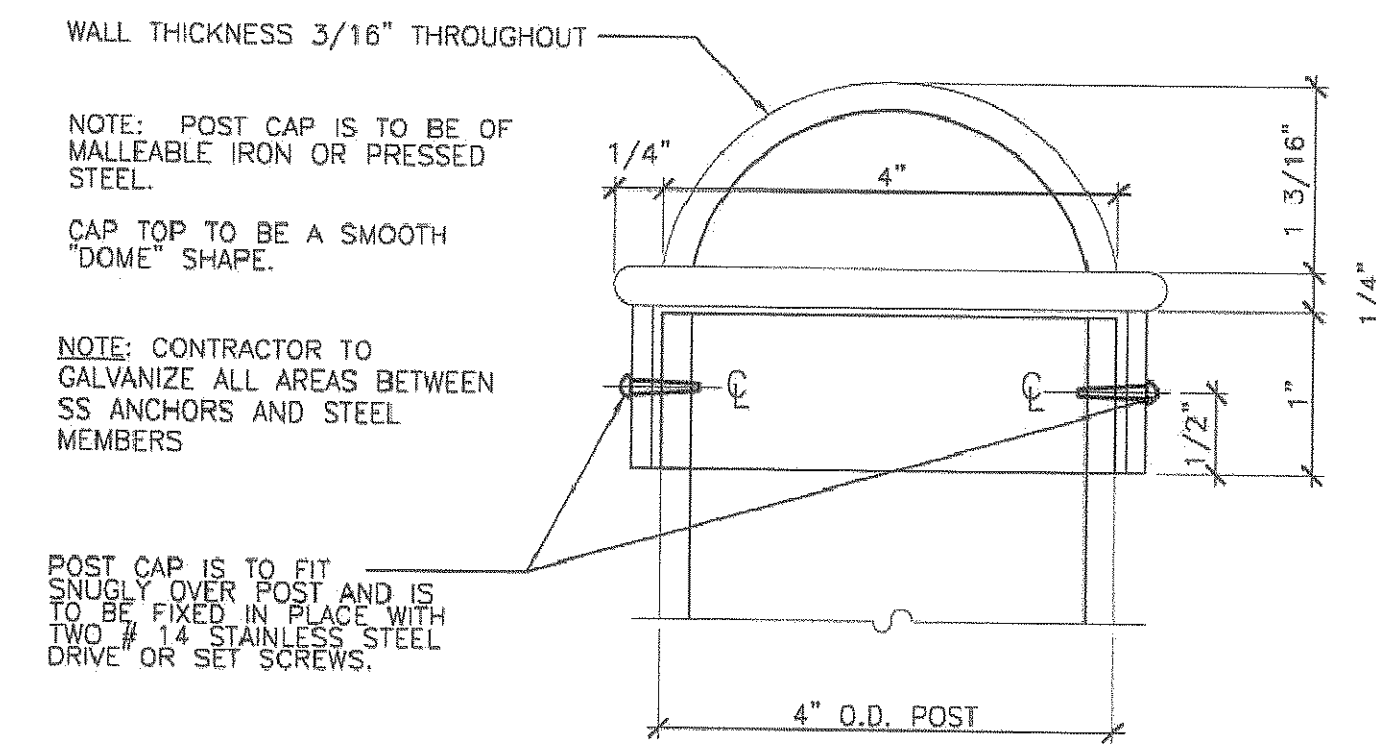
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N.T.S.



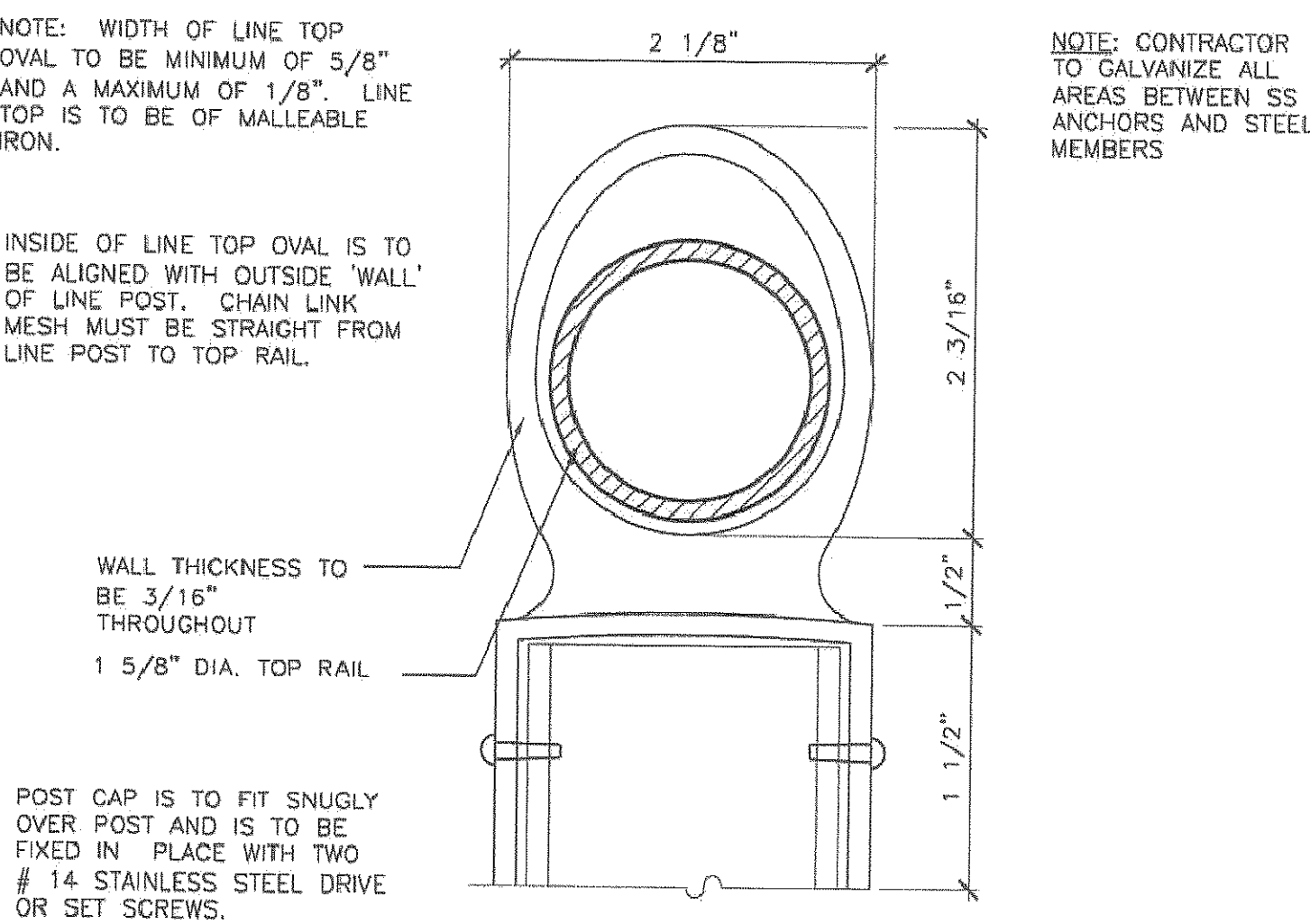
2 Top Rail Coupling
N.T.S.



3 Tension Members
N.T.S.

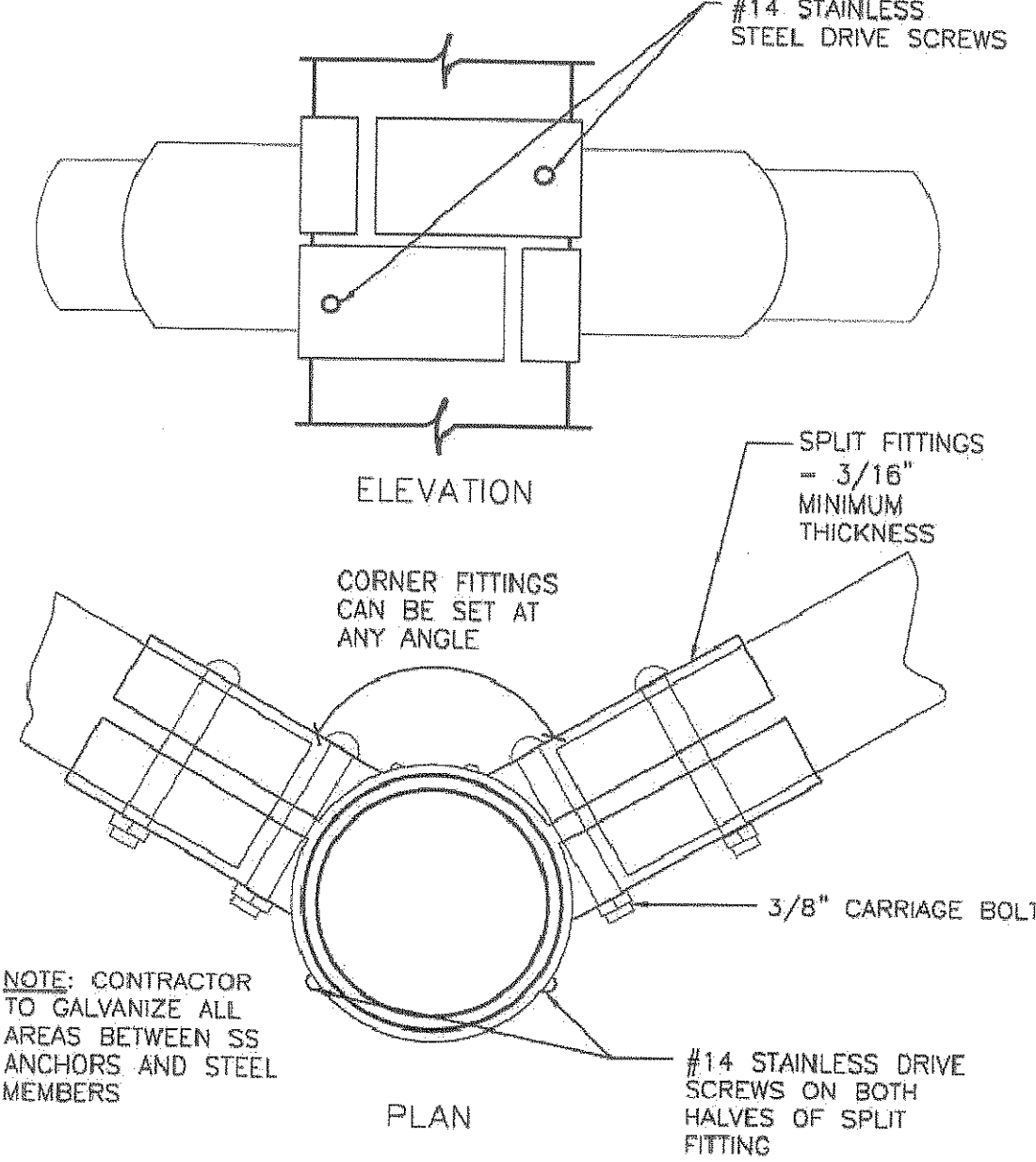


4 Small Post Cap (End Cap)
N.T.S.

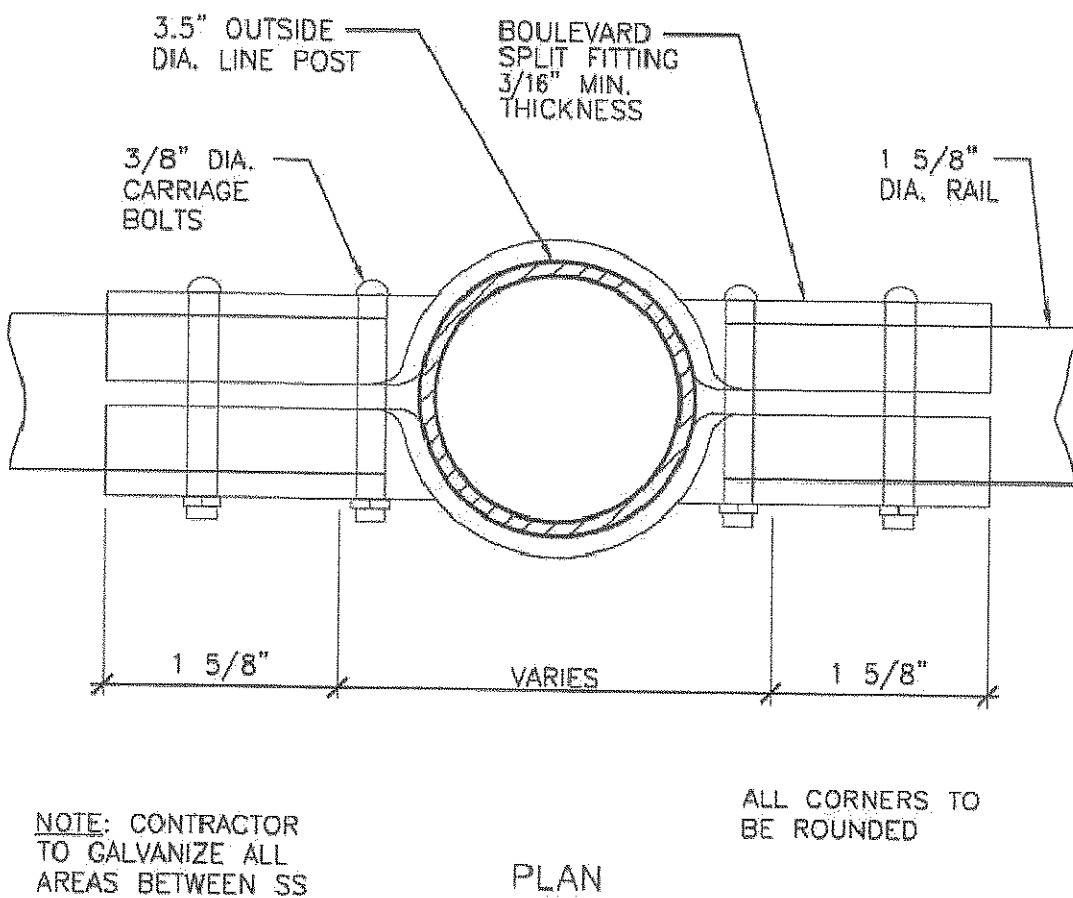


5 Post Line Top
N.T.S.

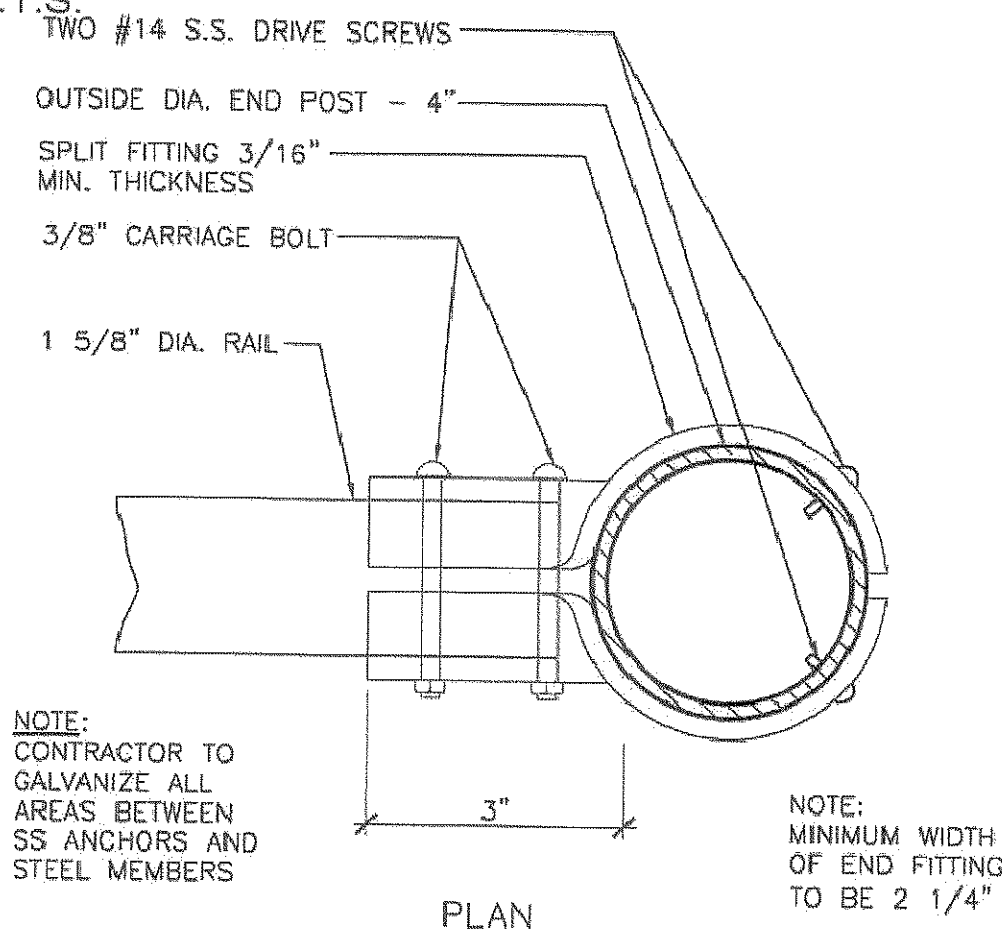
NOTE: EACH CORNER FITTING TO BE ATTACHED TO CORNER POST WITH TWO STAINLESS STEEL DRIVE SCREWS. (ONE DRIVE SCREW FOR EACH HALF OF CORNER FITTING)



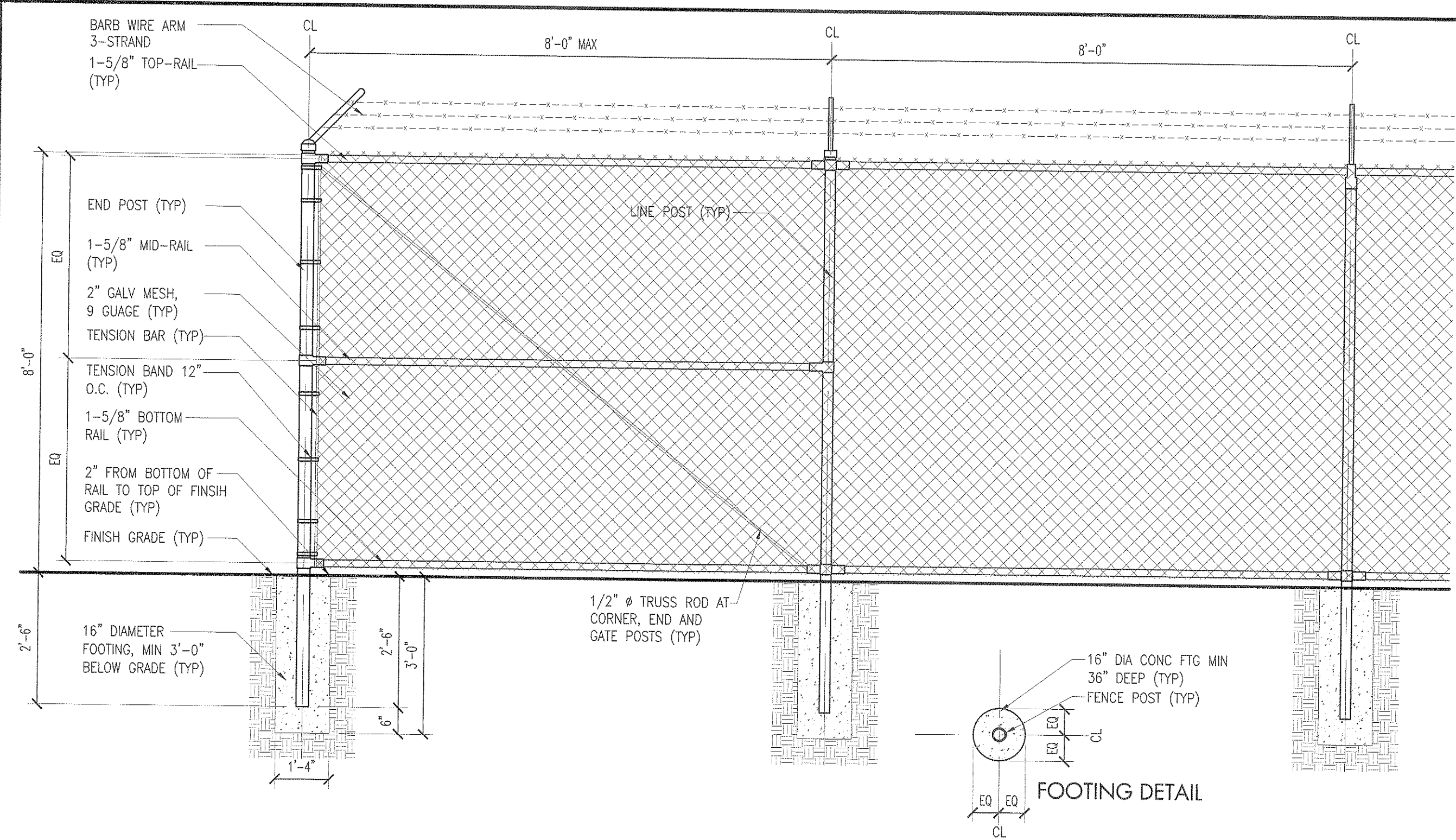
6 Corner Fitting
N.T.S.



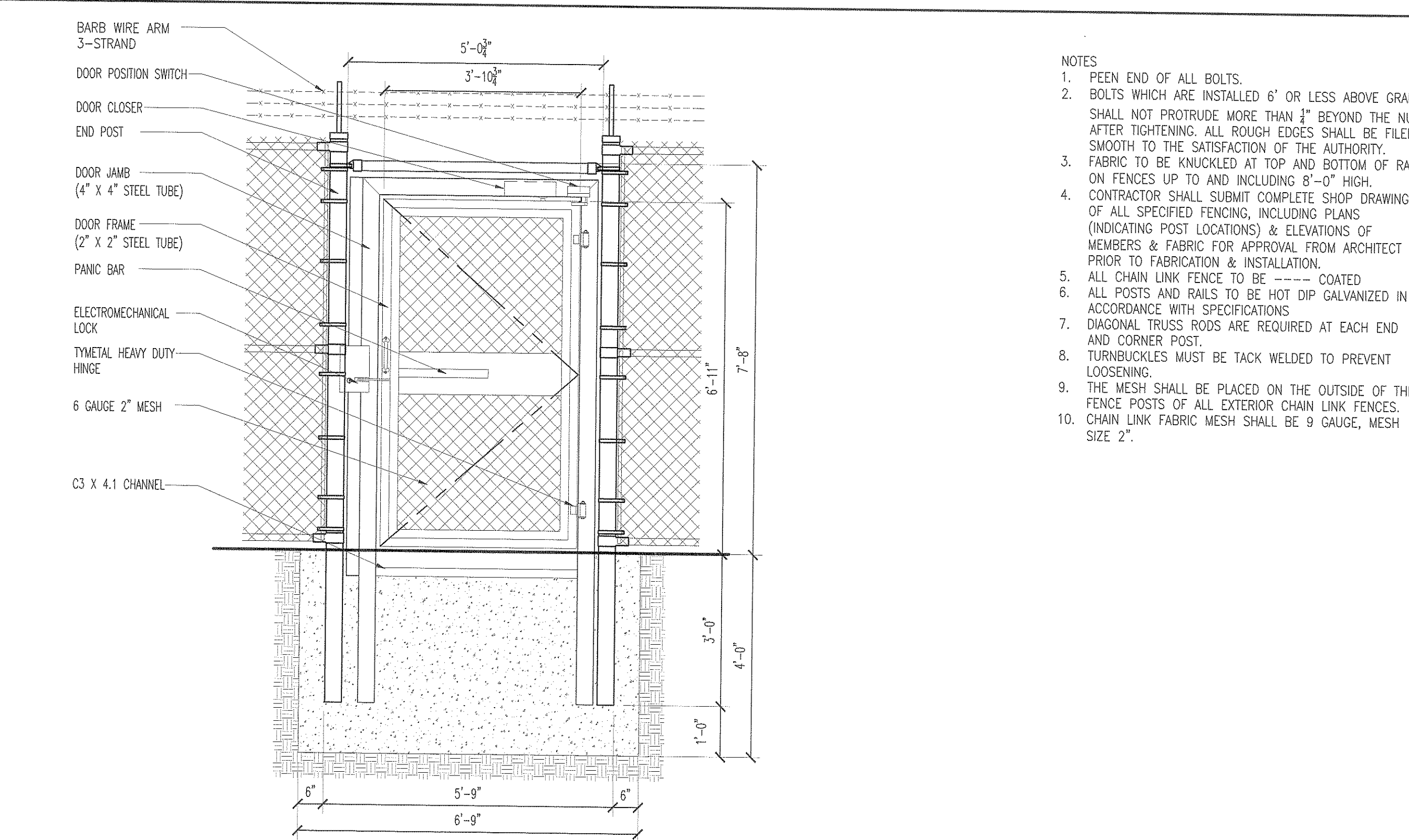
7 Boulevard
N.T.S.



8 End Fitting
N.T.S.



9 CHAIN LINK FENCE DETAIL
SCALE 1/2\"/>



10 SINGLE GATE DETAIL
SCALE 1/2\"/>

FENCE/GATE PART	MATERIAL AND DIMENSION
BOULEVARDS, CORNER (SPLIT) FITTINGS & END FITTINGS	MALLEABLE IRON OR PRESSED STEEL - 3/16\"
POST CAPS & POST LINE TOPS	MALLEABLE IRON OR PRESSED STEEL - 3/16\"
COUPLINGS	GALV. STEEL PIPE - 1/8\"
BOLTS AND NUTS	GALV. STEEL OR STAINLESS STEEL AS INDICATED ON PLANS
TENSION BARS	1/4\"
TENSION BANDS	1/8\"
TENSION RODS	1/2\"
TRUSS TIGHTENER	3/8\"
TRUSS CLAMP	1/4\"
DRIVE PINS & SET SCREWS	STAINLESS STEEL, 18-8

<u>CHAIN LINK FENCE SIZES OF MEMBERS</u>	
8'-0"	HEIGHT OF FENCE
2-7/8"	DIAMETER OF LINE POSTS
8'-0"	SCHEDULE 40 HIGH STRENGTH POST SPACING MAXIMUM
2-7/8"	CORNER & END POST
1-5/8"	TOP RAIL
1-5/8"	MID RAIL
1-5/8"	BOTTOM RAIL
3'-0"	LINE POST FOOTING DEPTH
3'-0"	END/CORNER/GATE POST FOOTING DEPTH
10 1-5/8"	HORIZONTAL BRACES @ CORNER & END POSTS
1/2"	DIAGONAL BRACES

<u>FABRIC WIDTHS</u>	
8'-0"	HEIGHT OF FENCE
8'-0"	WIDTH OF BOTTOM FABRIC

BARB WIRE

(3) STANDS OF BARBED WIRE, EACH
CONSISTING OF 2 STRAND LINE WIRE W/4PT BARBS

<u>PIPE SCHEDULE</u>	
NOMINAL OUTSIDE DIAMETER	ACTUAL OUTSIDE DIAMETER
1-5/8"	1.660
1-7/8"	1.900
2 3/8"	2.375
2 7/8"	2.875
3"	3.000
3 1/2"	3.500

AS BUILT

Date: *JAN 2020*

Signature: *[Signature]*

Altec Building Systems Corp.
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Pt. Pleasant, NJ 08742
(732) 903-6264

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ENGINEERING & CONSTRUCTION MANAGEMENT
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ronsadowski@verizon.net



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Michael @ StonewaterArchitecture.com
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Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client

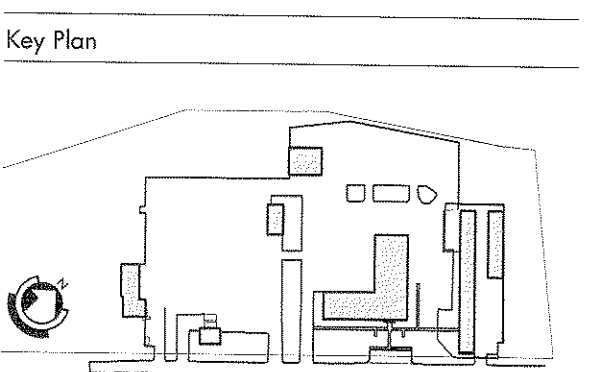


New Jersey Department of the Treasury
Division of Property Management and Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625



Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:
Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00



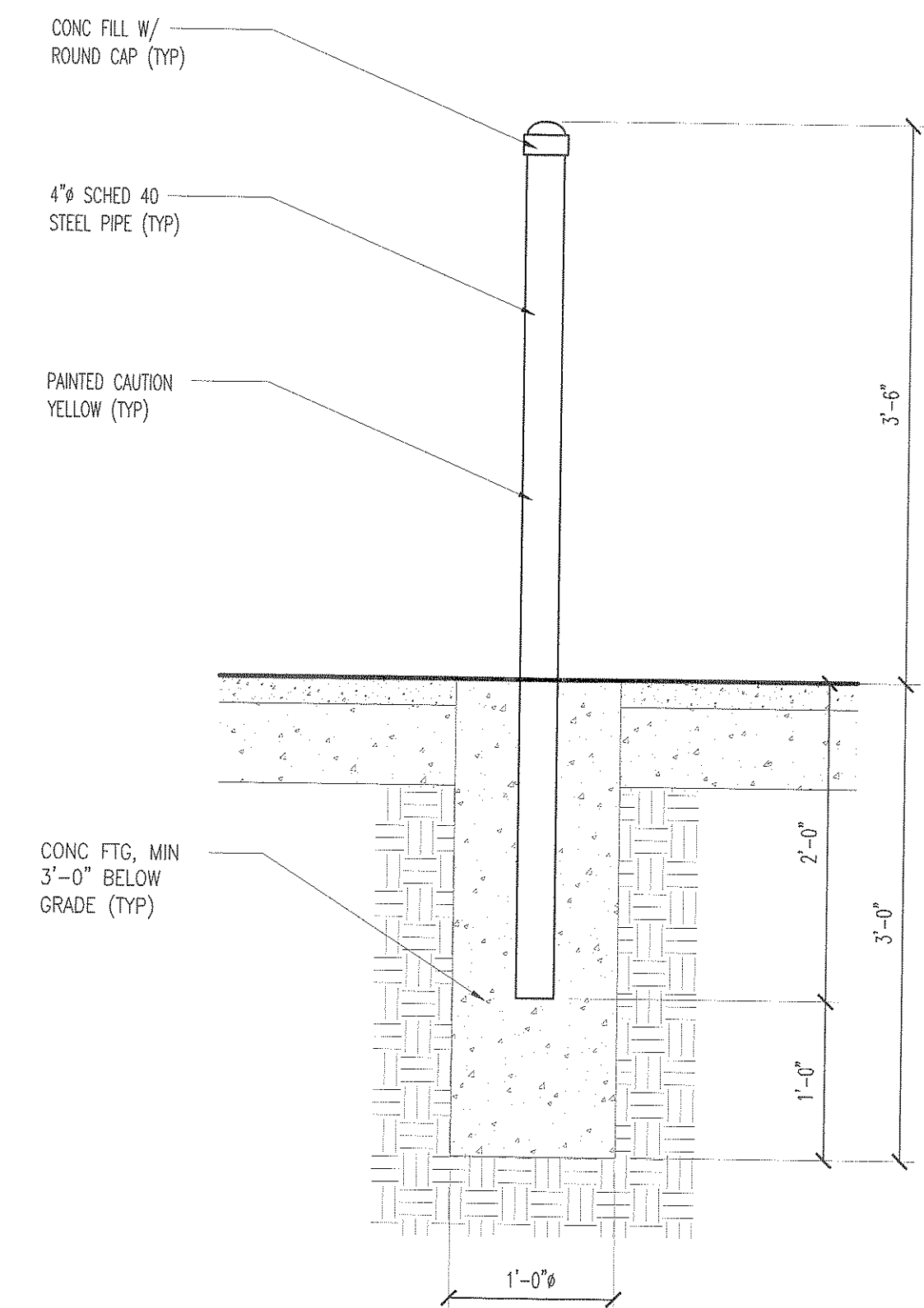
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Date:	Description:	No.

Issued Documents	
Date:	Description:
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04-28-18	Final Design Submission
05-21-18	Final Design Submission #2
07-16-18	Final Design Submission #3
07-31-18	Final Design Submission #4

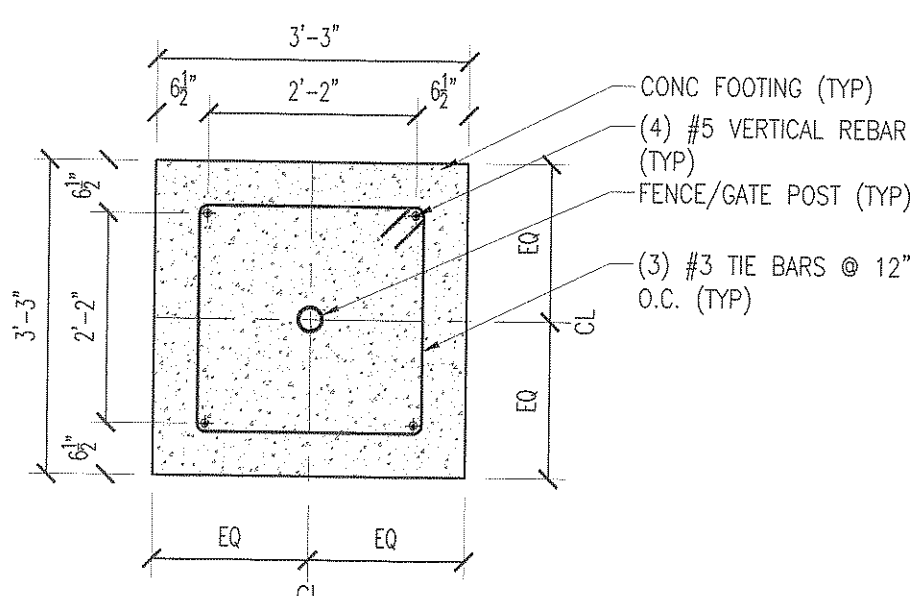
Seal & Signature
Michael A. Morris



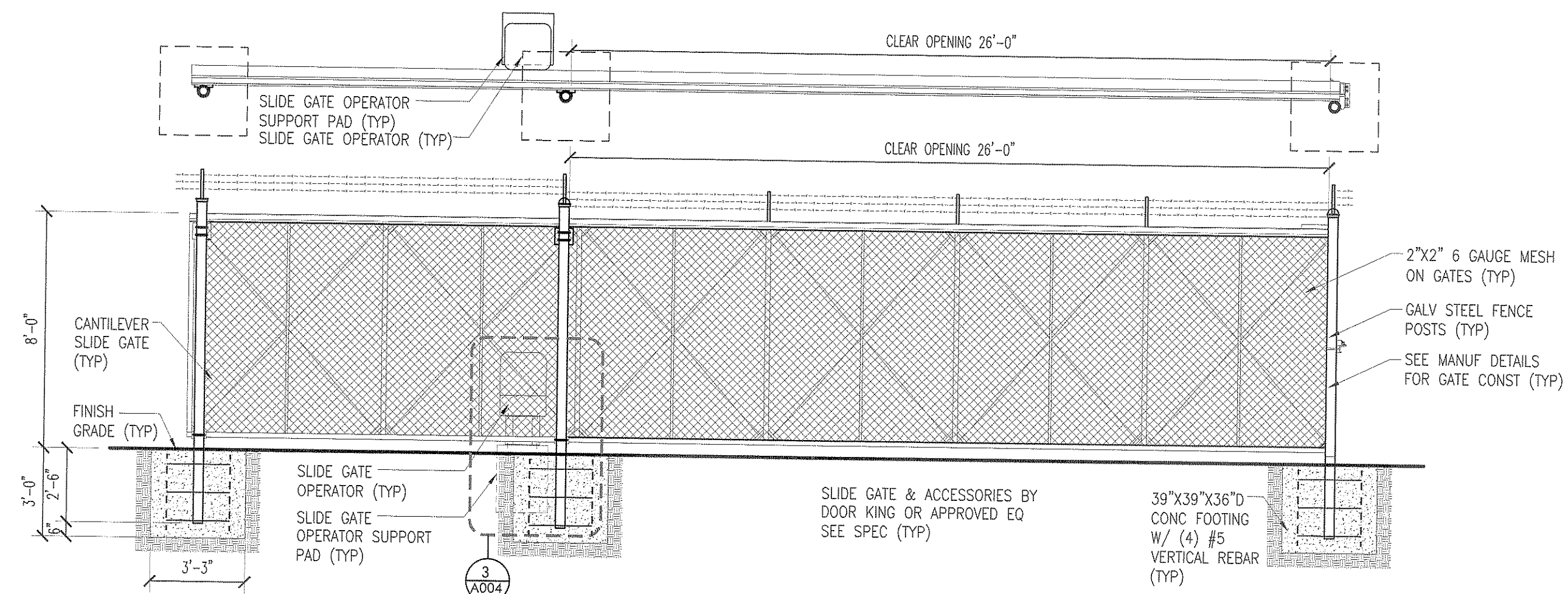
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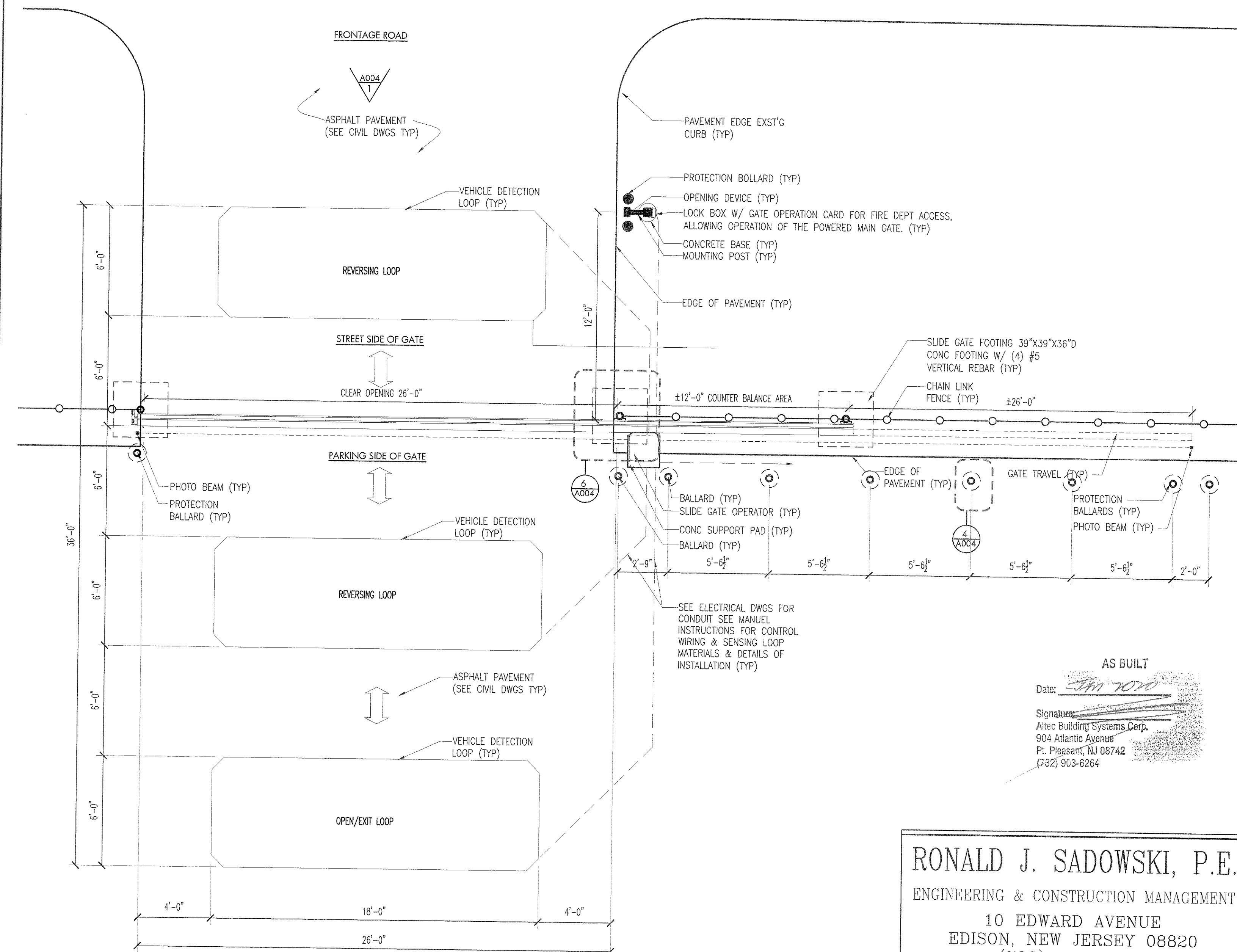
ENTRY GATE STEEL BOLLARD DETAIL



GATE FOOTING PLAN DETAIL
SCALE 1/2" = 1'



1 ENTRY GATE FRONT ELEVATION
SCALE 1/4" = 1'

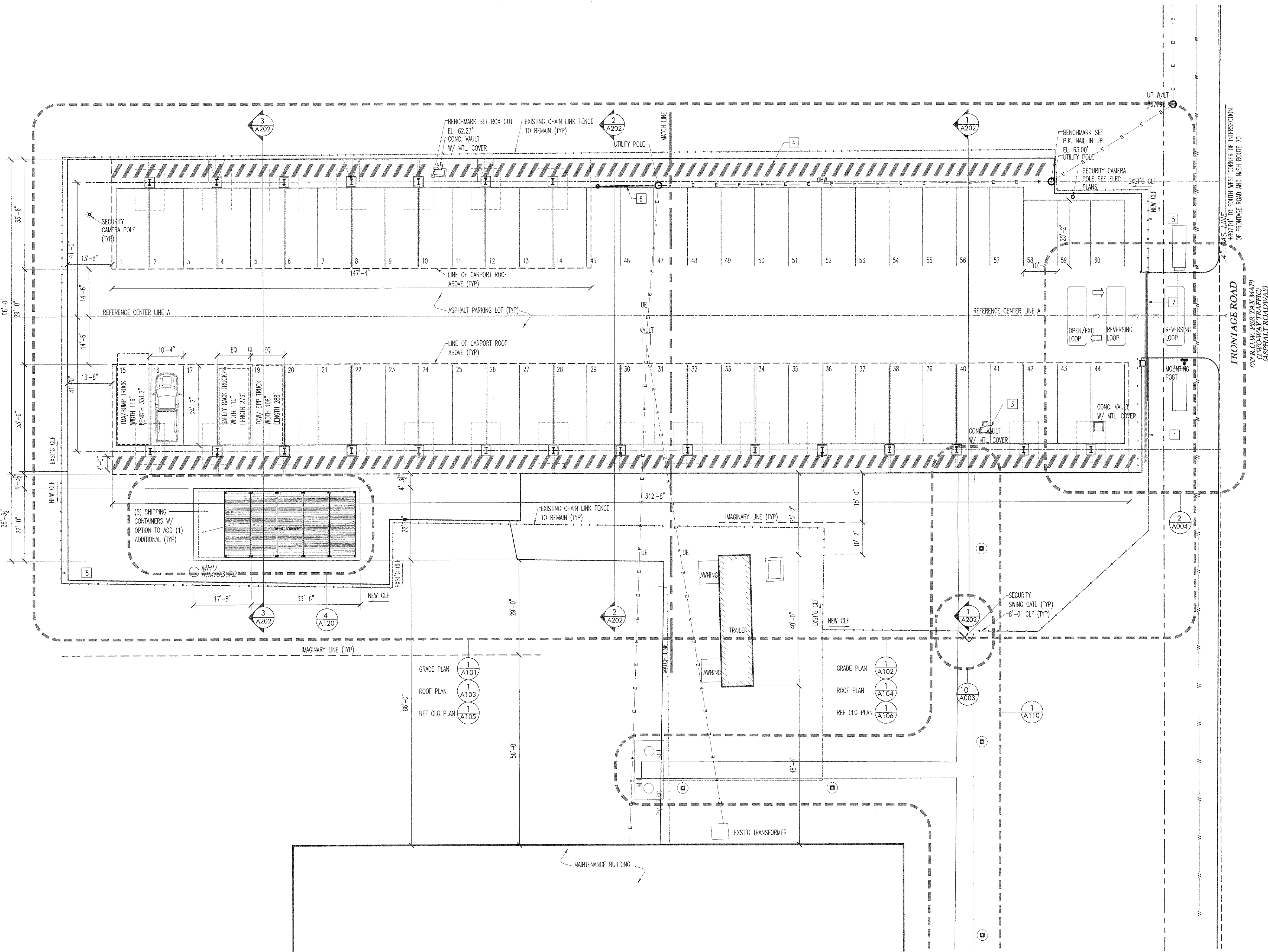


2 ENTRY GATE PLAN DETAIL
SCALE 1/4" = 1'

RONALD J. SADOWSKI
PROFESSIONAL ENGINEER
NJPE #38261

et:	Drawing Number:
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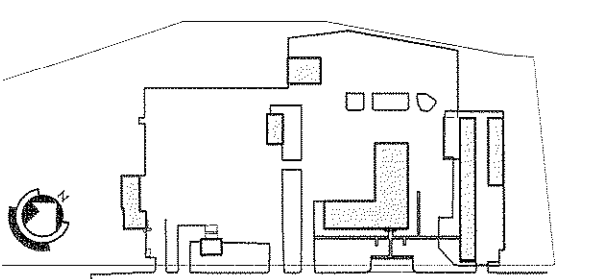
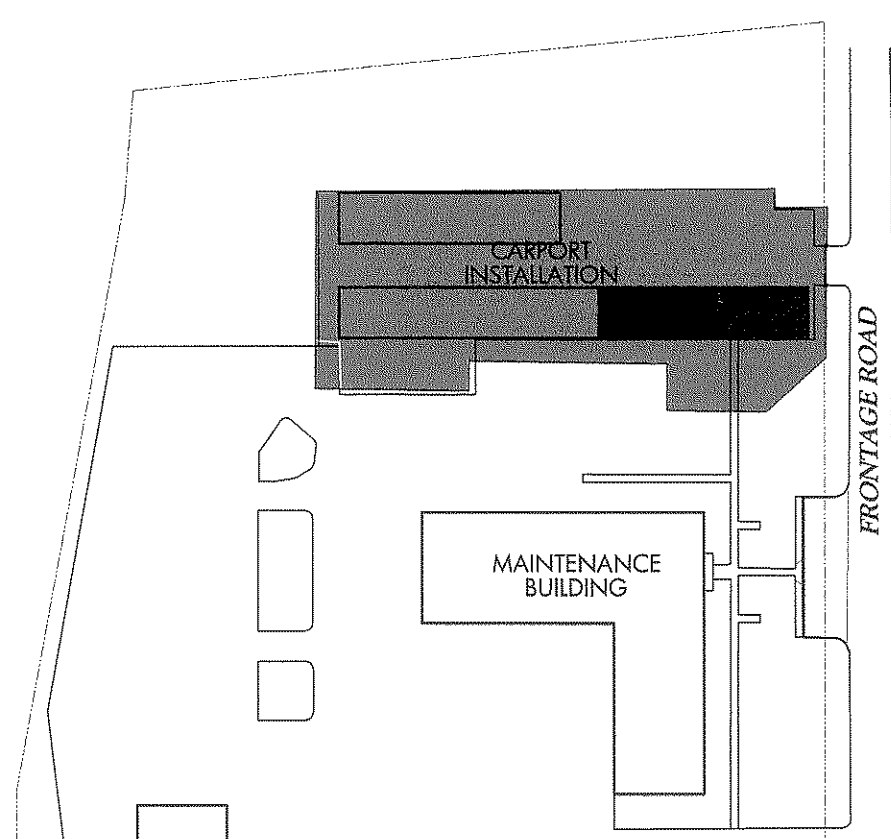
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- SYMBOL**
- OHW — EXISTING OVERHEAD ELECTRICAL WIRE
 - UE — EXISTING BURIED CONDUIT
 - 8'-0" CLF SEE CIVIL DWGS
 - EXISTING FENCE TO REMAIN

- UTILITY POLE
 - EXTERIOR LIGHT POLE W/ LUMINAIR
- HEX NOTES**
- PROVIDE DBL END POSTS WHERE FENCE MEETS EXIST FENCE TO REMAIN. EXAMINE EXIST'G FENCE TIES & ACCESSORIES. PROVIDE ALL MISSING/ DAMAGED ACCESSORIES (TYP)
 - CANTILEVER GATE W/ ELECTRIC OPERATION. CARD READER/ RFID OPERATION. INSTALL ROAD LOOPS PER MANUFACTURES RECOMMENDATIONS.

AS BUILT
Date: Jan 2020
Signature: [Signature]
Altec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264



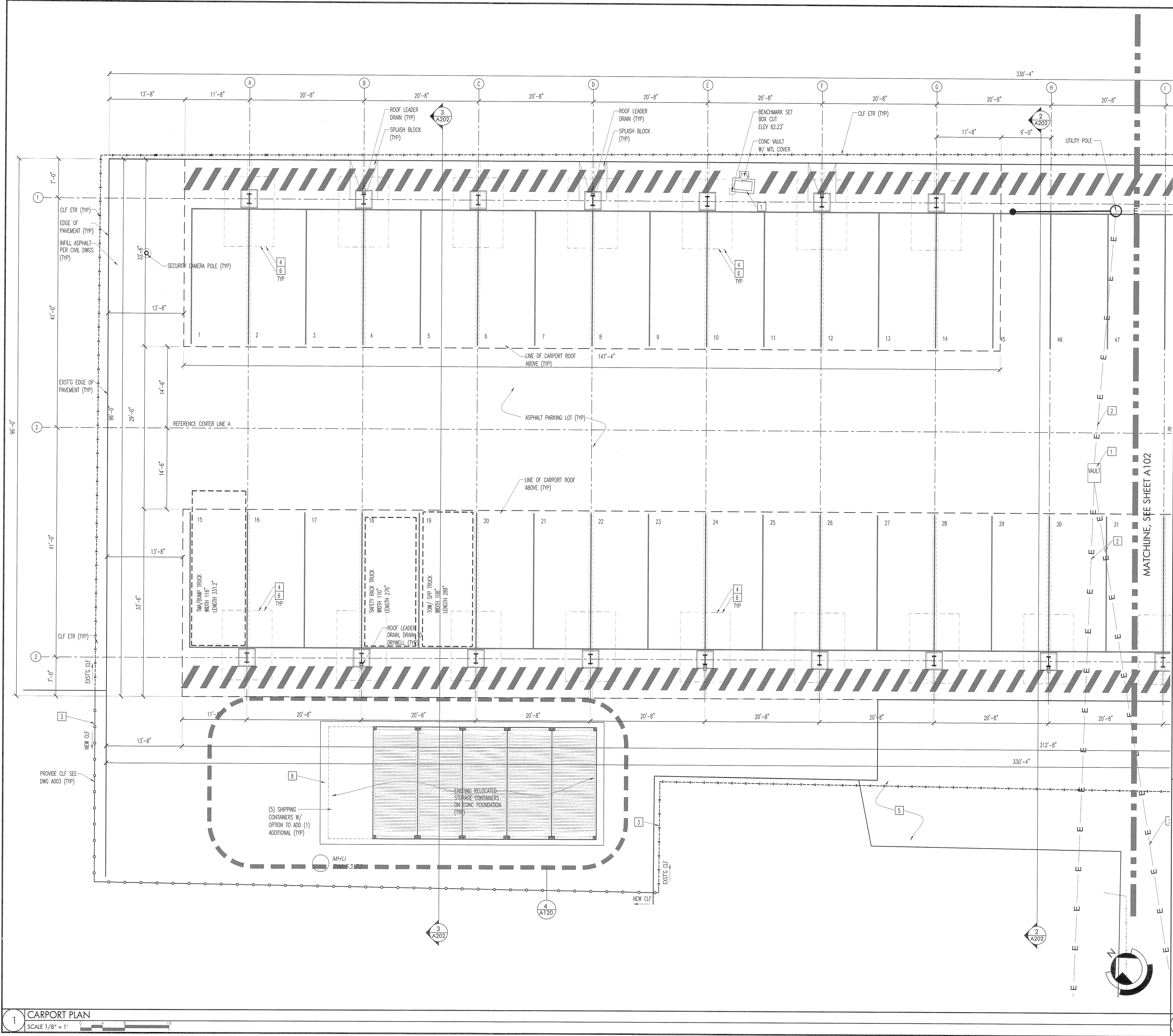
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Date:	Description:	No.

Issued Documents	
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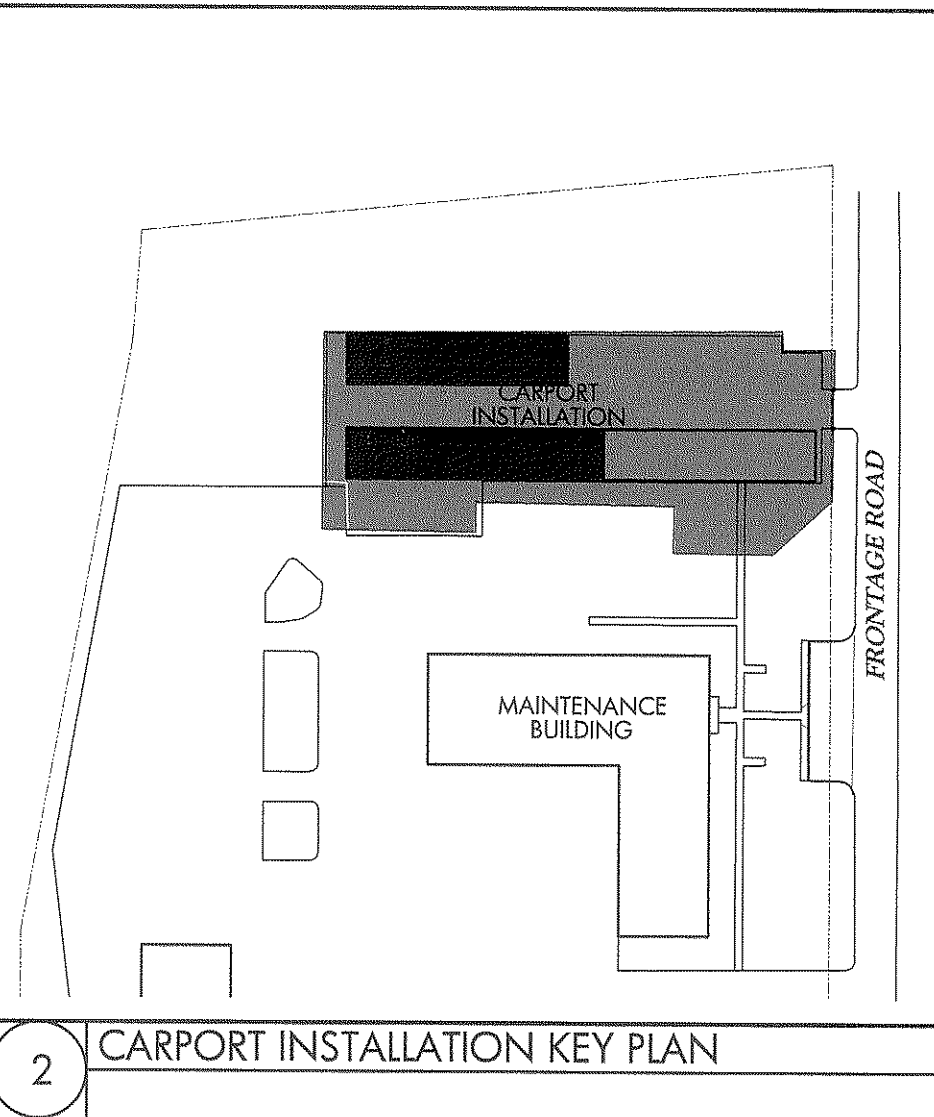
Seal & Signature
Michael A. Morik

Drawing Title:
**Part Site Plan -
Carport Installation**

Sheet: Drawing Number:



- HEX NOTES**
- 1 EXISTING UTILITY VAULT/ JUNCTION BOX TO REMAIN. PROTECT DURING CONSTRUCTION & EXCAVATION FOR CARPORT FOUNDATION (TYP)
 - 2 EXISTING ELECTRICAL CONDUITS TO BE PROTECTED DURING CARPORT EXCAVATION (TYP)
 - 3 EXISTING CLF TO REMAIN, MODIFY & TERMINATE WHERE EXISTING FENCING MEET REPLACEMENT FENCING (TYP)
 - 4 REPLACE ASPHALT AT FOOTING LOCATION (TYP) SEE CIVIL DWGS FOR DETAILS
 - 5 RESTORE GRASS & TOPSOIL WHERE DISTURBED BY CONSTRUCTION (TYP)
 - 6 CARPORT FOUNDATIONS SEE STRUCTURAL DWGS
 - 7 DRAINAGE PIPES & OUTFLOW (SEE CIVIL DWGS)
 - 8 EXISTING STORAGE CONTAINERS- RELOCATE PAINT & SET ON ANCHORS SEE 4/A120
- NOTE:
EXISTING UTILITY VAULT/ JUNCTION BOX, IF ACTIVE, PROTECT PIPES/ CONDUIT DURING FOUNDATION INSTALLATION REMOVE EXISTING VAULT/ JUNCTION. INSTALL NEW VAULT/ JUNCTION/ NEW PAVEMENT SURFACE SEE CIVIL DWGS



P.O. Box 208
Colonia, New Jersey 07067
908-380-2496
Michael @ StonewaterArchitecture.com
NJ Lic. No. 21A1017266
NY Lic. No. 032102

Consultants
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

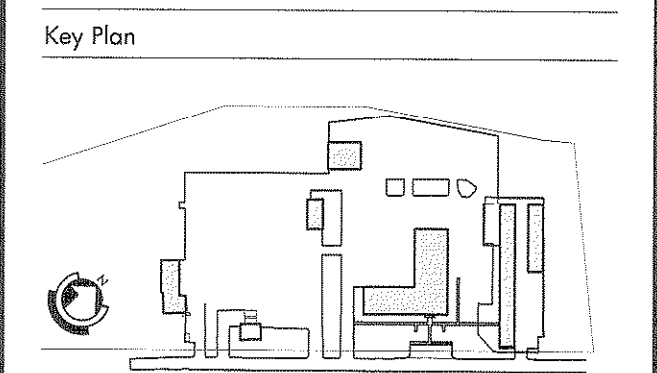
Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client

New Jersey Department of the Treasury
Division of Property Management and Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625

Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

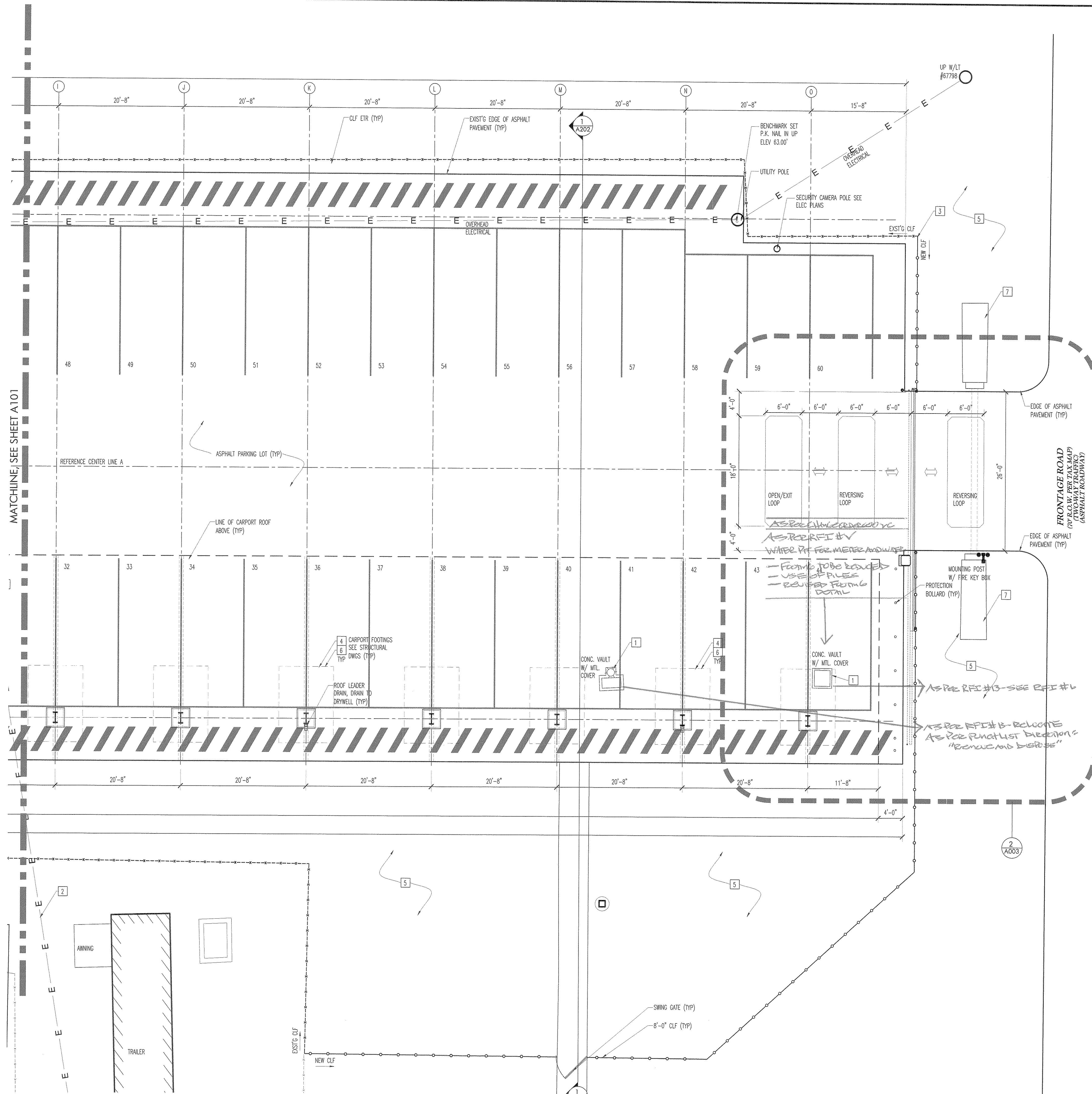
Project:
Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00



Revisions		
Date:	Description:	No.

Issued Documents	
Date:	Description:
03-15-18	Design Development 50%
04-28-18	Final Design Submission
05-21-18	Final Design Submission #2
07-16-18	Final Design Submission #3

Seal & Signature
Michael A. Morris



- KEY NOTES**
- EXISTING UTILITY VAULT/ JUNCTION BOX TO REMAIN. PROTECT DURING CONSTRUCTION & EXCAVATION FOR CARPORT FOUNDATION (TYP)
 - EXISTING ELECTRICAL CONDUITS TO BE PROTECTED DURING CARPORT EXCAVATION (TYP)
 - EXISTING CLF TO REMAIN, MODIFY & TERMINATE WHERE EXISTING FENCING MEET REPLACEMENT FENCING (TYP)
 - REPLACE ASPHALT AT FOOTING LOCATION (TYP) SEE CIVIL DWGS FOR DETAILS
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- NOTE:**
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Colonia, New Jersey 07067
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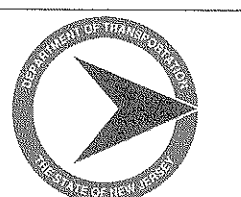
Consultants
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client



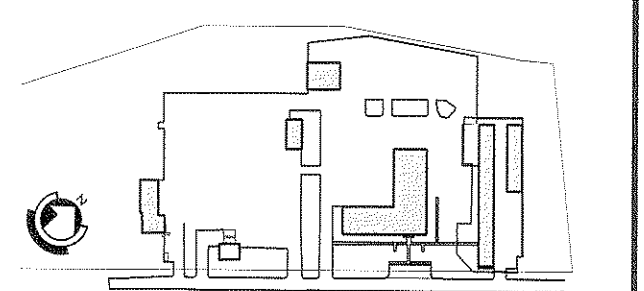
New Jersey Department of the Treasury
Division of Property Management and Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625



Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:
Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

Key Plan



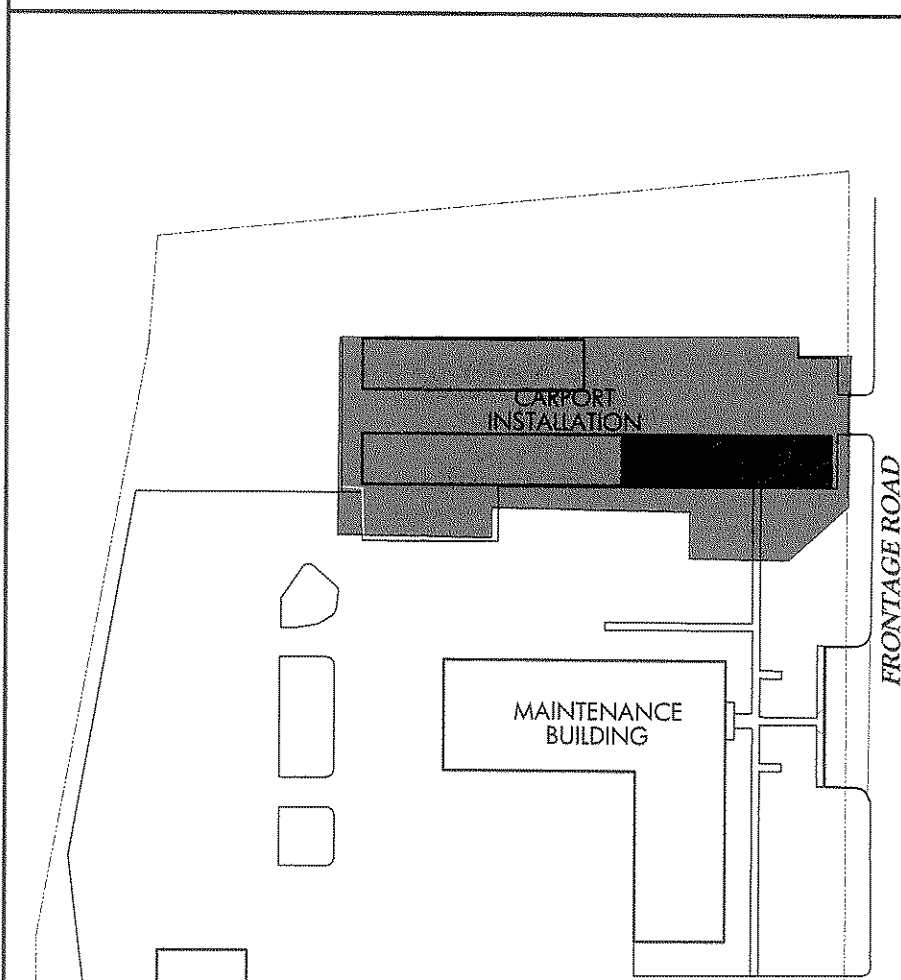
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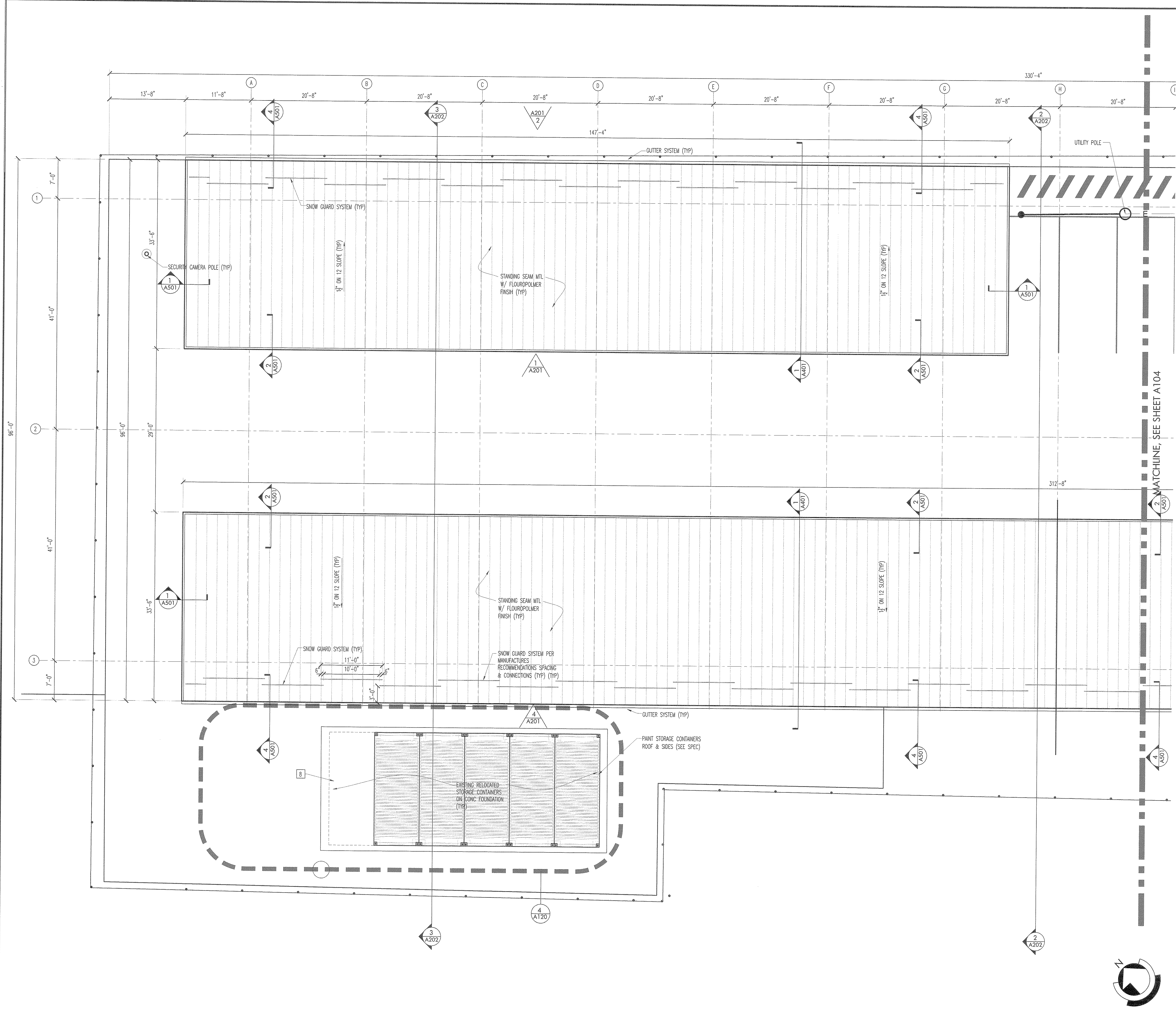
Issued Documents	
Date:	Description:
03-15-18	Design Development 50%
04-28-18	Final Design Submission
05-21-18	Final Design Submission #2
07-16-18	Final Design Submission #3

Seal & Signature
Michael A. Moritz

Drawing Title:
Carport Plan Part 2 of 2

Sheet: Drawing Number:





1 ROOF PLAN
SCALE 1/8" = 1'

2 CARPORT INSTALLATION KEY PLAN

AS BUILT
Date: *Jan 2020*
Signature: *[Signature]*
Alec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264

FRONTAGE ROAD

MAINTENANCE BUILDING

CARPORT INSTALLATION

STONEWATER ARCHITECTURE LLC

P.O. Box 208
Colonia, New Jersey 07067
908-380-2496

Michael @ StonewaterArchitecture.com
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NY Lic. No. 032102

Consultants

Structural & MEP Consultant
Becht Engineering BT, Inc.
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Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client

DPMC

New Jersey Department of the Treasury
Division of Property Management and Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625

Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:

Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

Key Plan

Revisions

Date:	Description:	No.

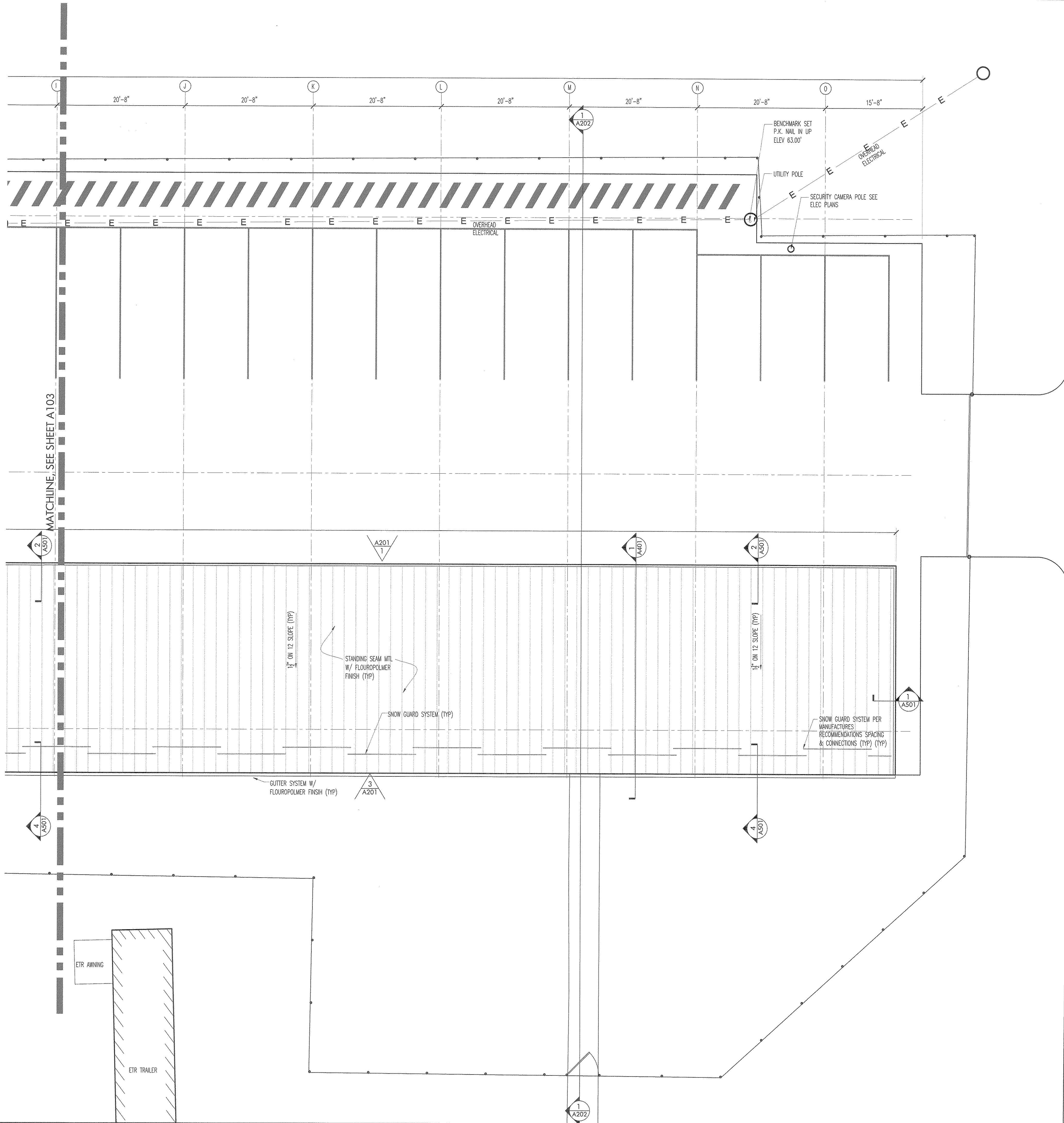
Issued Documents

Date:	Description:
03-15-18	Design Development 50%
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07-16-18	Final Design Submission #3

Seal & Signature
Michael A. Moritz

Drawing Title:
Roof Plan Part Part 1 of 2

Sheet:
A103.00



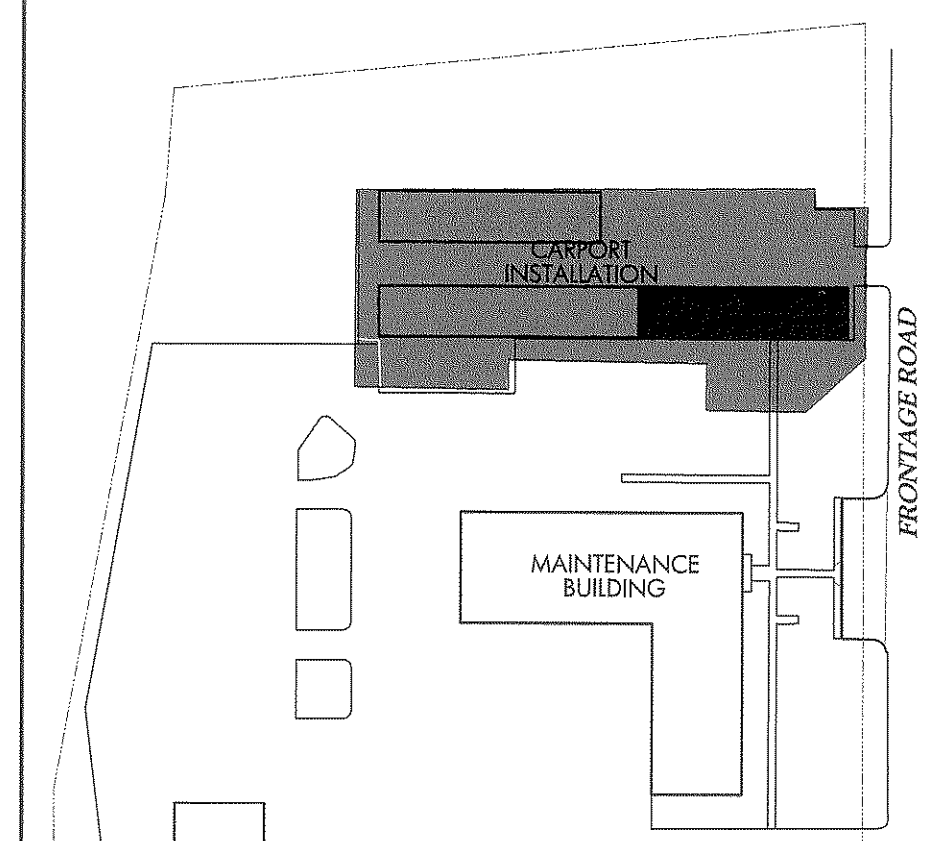
GUTTER SIZE CALCULATION	
ROOF WIDTH (FT)	35.5'
LEADER SPACING (FT)	62.0'
A=AREA/ LEADER (SQ FT)	2,077
I=RAINFALL INTENSITY 5.1"/HR	5.1"
1 x A	10,592
PITCH FACTOR	1
GUTTER WIDTH	8"
MINIMUM DEPTH/WIDTH	.5
MINIMUM GUTTER DEPTH= 8"x .5	4"
GUTTER DEPTH AT LEADER	8"
GUTTER DEPTH 32' FROM LEADER	6"
SLOPE BOTTOM OF GUTTER	2"/32'
D=DOWNSPOUT CAPACITY (SF/SQ IN)	175
A=LEADER AREA 4"x 6" (SQ IN)	24
D x A =ROOF AREA ALLOWED per LEADER (SQ FT)	4,200

ACTUAL ROOF AREA PER LEADER (MAX) = 2,077 SF
ALLOWABLE ROOF AREA PER LEADER = 4,200 SF

FRONTAGE ROAD
(70' R.O.W. PER TAX MAP)
(10' R.O.W. PER TAX MAP)
(ASPHALT ROADWAY)

AS BUILT

Date: *SM 10/10*
Signature: *[Signature]*
Aitec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264



P.O. Box 208
Colonia, New Jersey 07067
908-380-2496
Michael@StonewaterArchitecture.com
NJ Lic. No. 21A1017266
NY Lic. No. 032102

Consultants
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

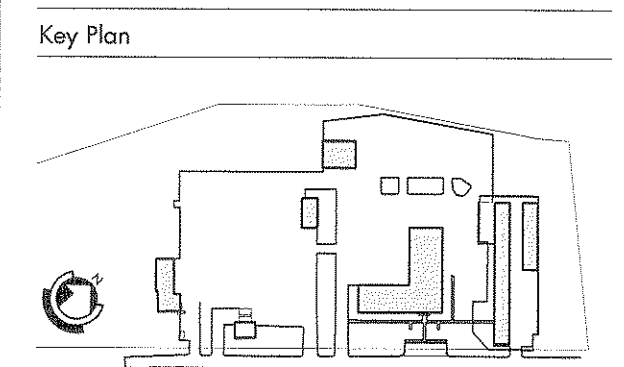
Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client

New Jersey Department of the Treasury
Division of Property Management and Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625

Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:
Carport Installation for the:
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Project #T0583-00



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05-21-18	Final Design Submission #2
07-16-18	Final Design Submission #3

Seal & Signature
Michael A. Moritz

Drawing Title:
Roof Plan Part 2 of 2

Sheet: Drawing Number:

A104.00



P.O. Box 208
Colonia, New Jersey 07067
908-380-2496
Michael@StonewaterArchitecture.com
NJ Lic. No. 21A017266
NY Lic. No. 032102

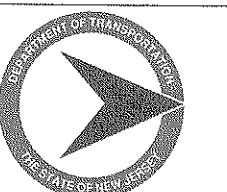
Consultants
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client



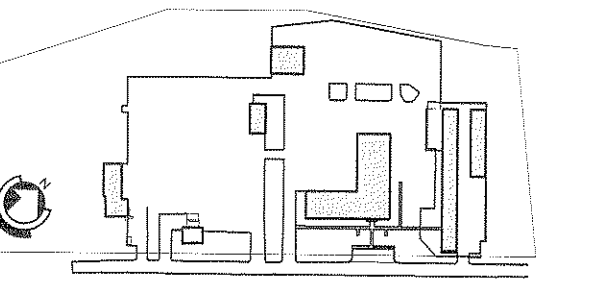
New Jersey Department of the Treasury
Division of Property Management and
Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625



Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:
Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

Key Plan



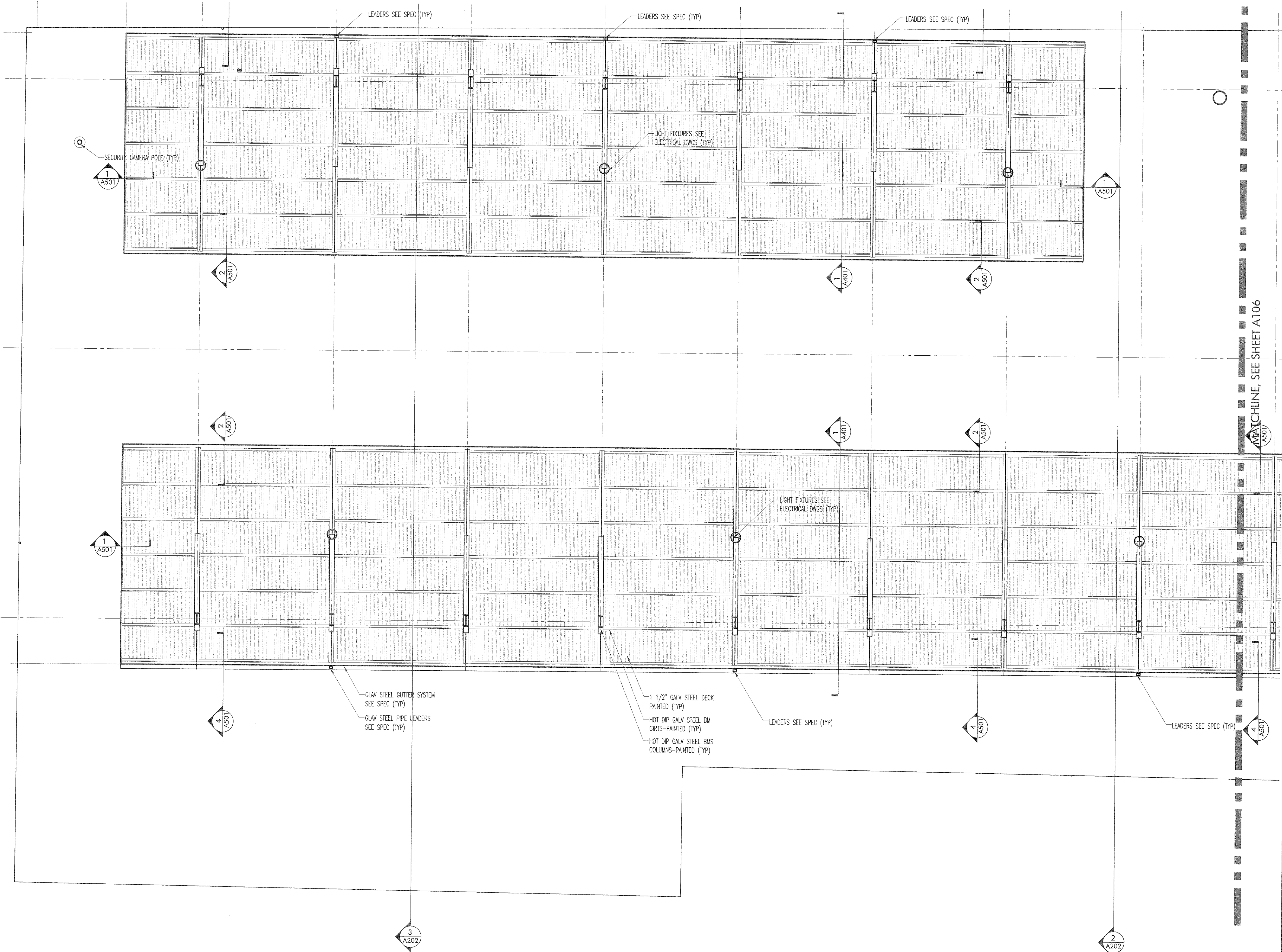
Revisions		
Date:	Description:	No.

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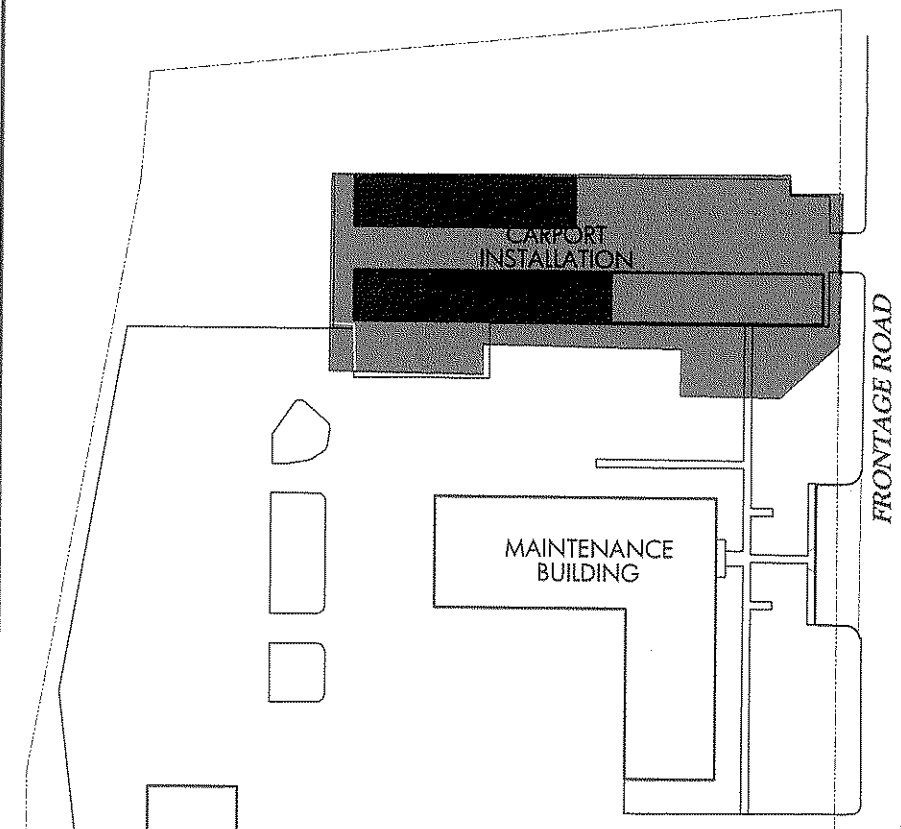
Seal & Signature
Michael A. Morris

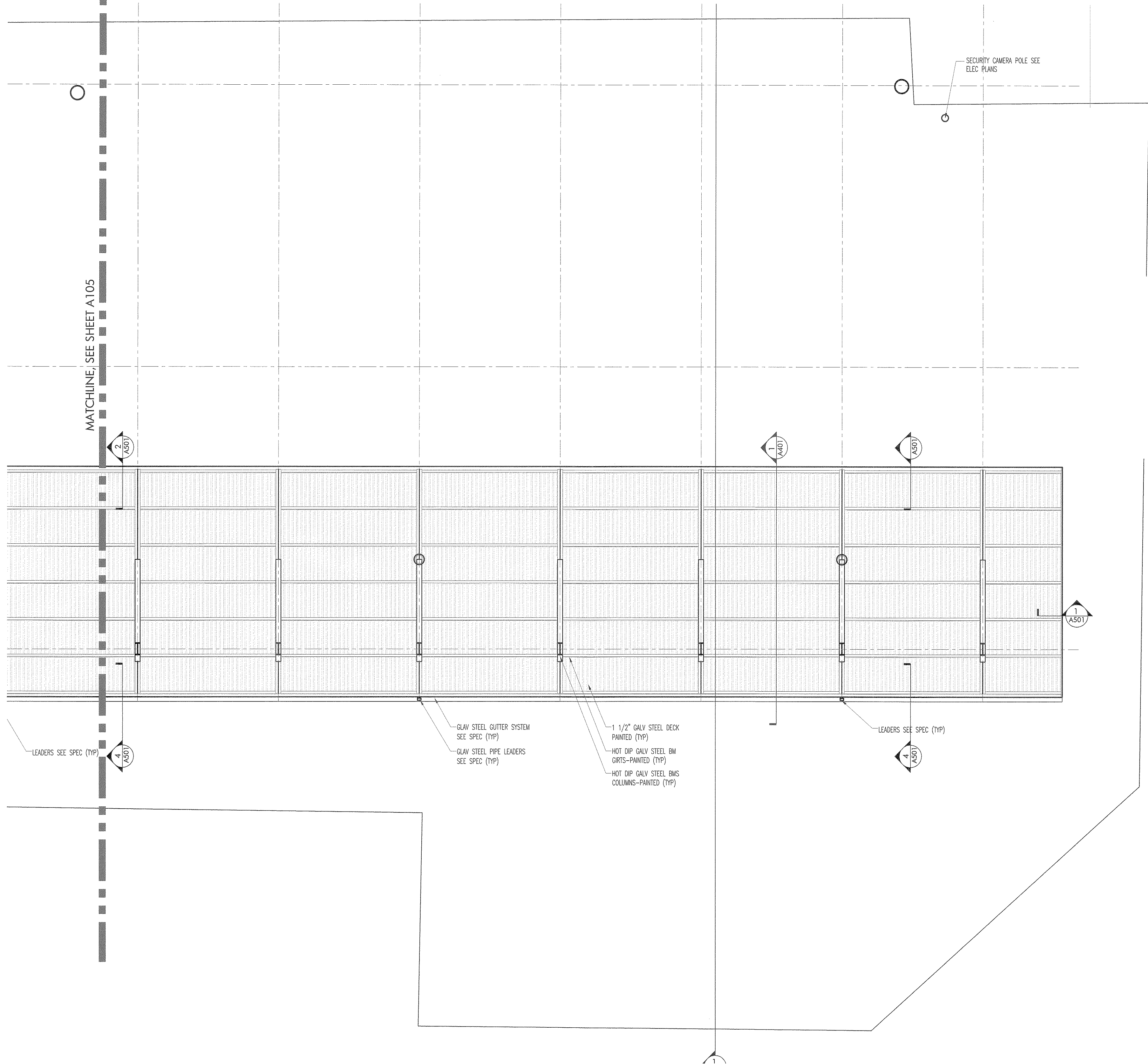
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Reflected Ceiling Plan
Part 1 of 2
Sheet: Drawing Number:

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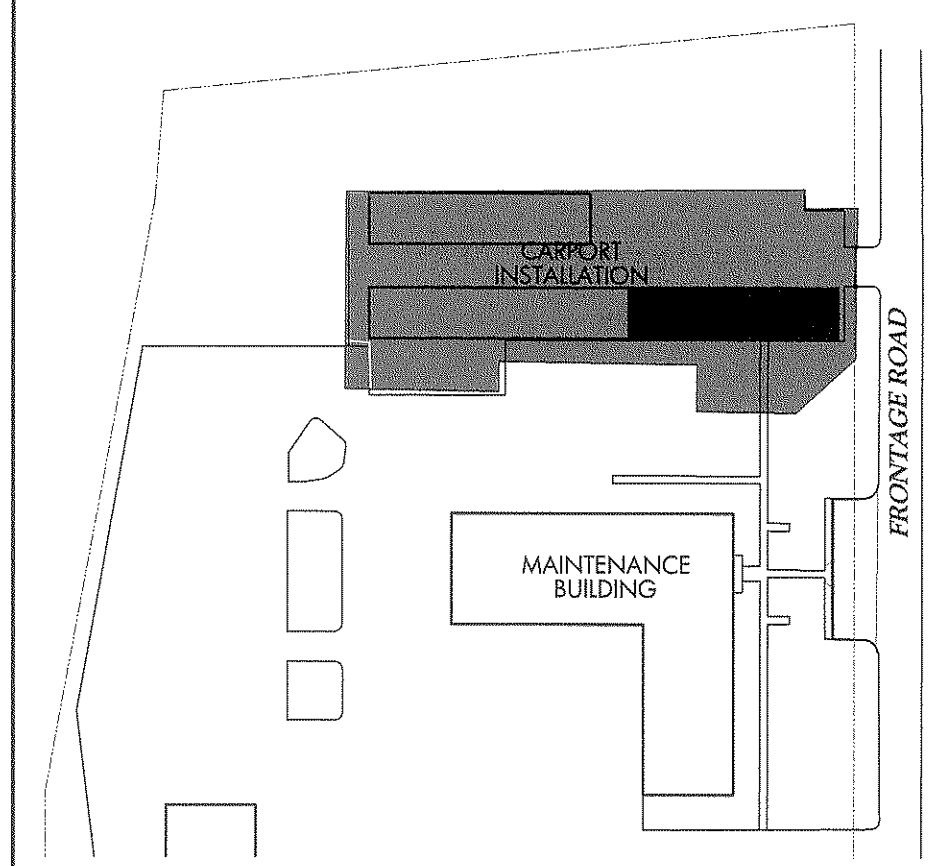


AS BUILT
Date: 5/11/2020
Signature: [Signature]
Attec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264





1 REFLECTED CEILING PLAN
SCALE 1/8" = 1'



2 CARPORT INSTALLATION KEY PLAN

AS BUILT
Date: *Jan 2010*
Signature: *[Signature]*
Alec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264



P.O. Box 208
Colonia, New Jersey 07067
908-380-2496
Michael @ StonewaterArchitecture.com
NJ Lic. No. 21A1017266
NY Lic. No. 032102

Consultants
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client



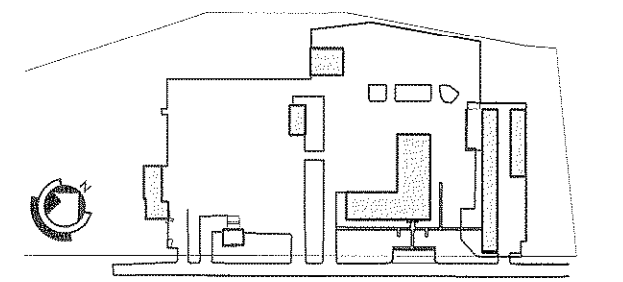
New Jersey Department of the Treasury
Division of Property Management and
Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625



Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:
Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

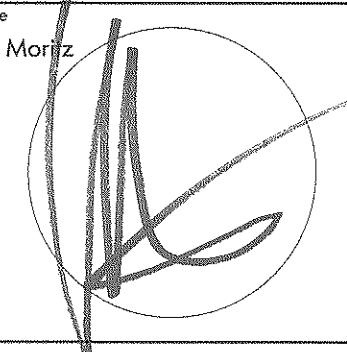
Key Plan



Revisions		
Date:	Description:	No.

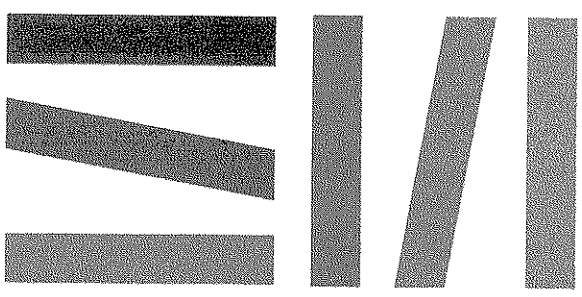
Issued Documents		
Date:	Description:	
03-15-18	Design Development 50%	
04-28-18	Final Design Submission	
05-21-18	Final Design Submission #2	
07-16-18	Final Design Submission #3	

Seal & Signature
Michael A. Moritz



Drawing Title:
Reflected Ceiling Plan
Part 2 of 2
Sheet: Drawing Number:

A106.00



STONEWATER
ARCHITECTURE LLC

P.O. Box 208
Colonia, New Jersey 07067
908-380-2496

Michael @ StonewaterArchitecture.com
NJ Lic. No. 21A1017266
NY Lic. No. 032102

Consultants

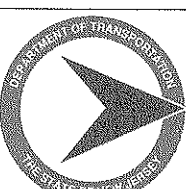
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client



New Jersey Department of the Treasury
Division of Property Management and
Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625

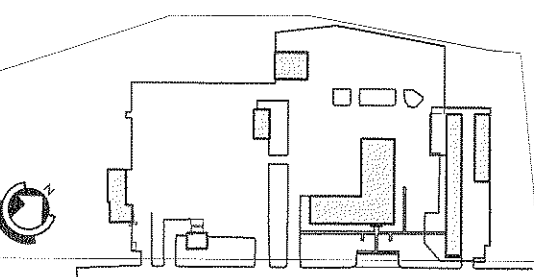


Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:

Carport Installation for the:
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Project #T0583-00

Key Plan



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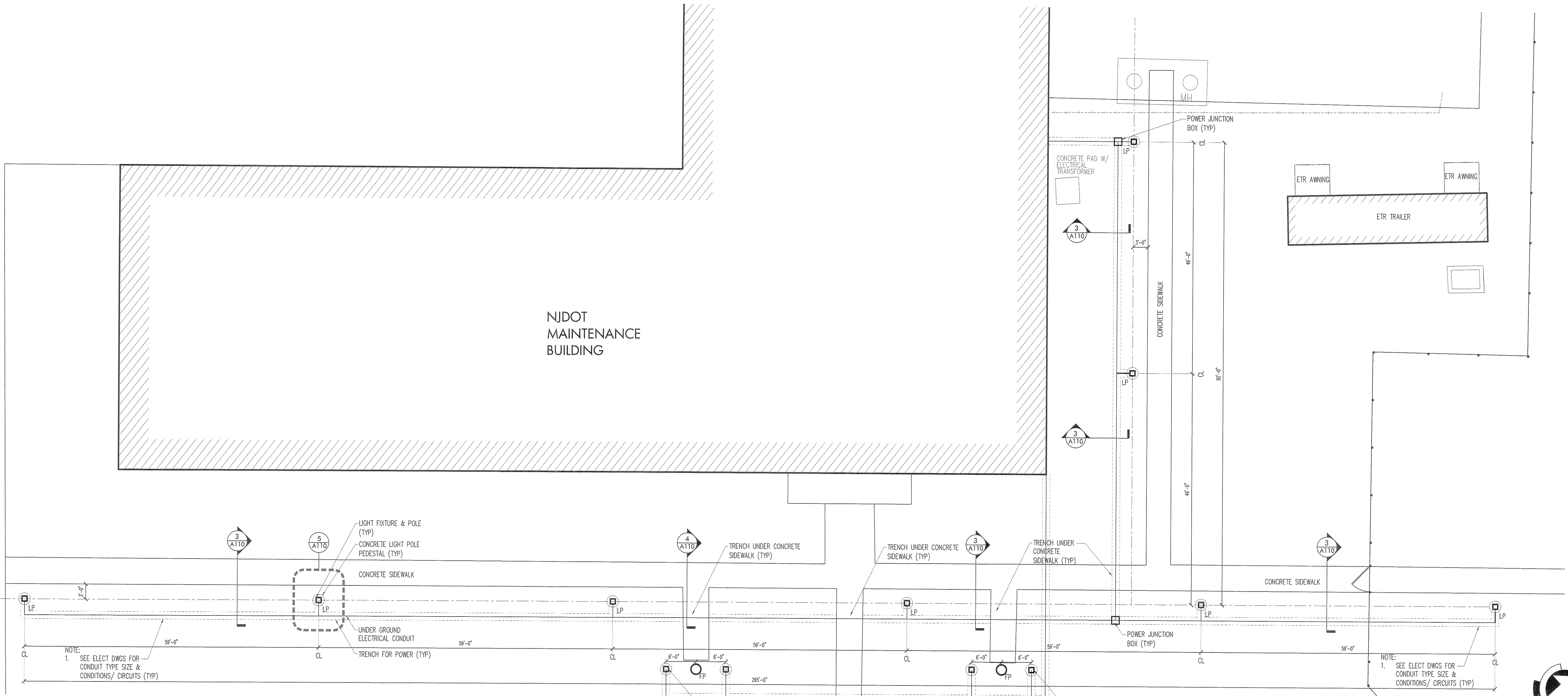
Seal & Signature

Michael A. Moritz

Drawing Title:
Light Pole Replacement
Site Plan & Details

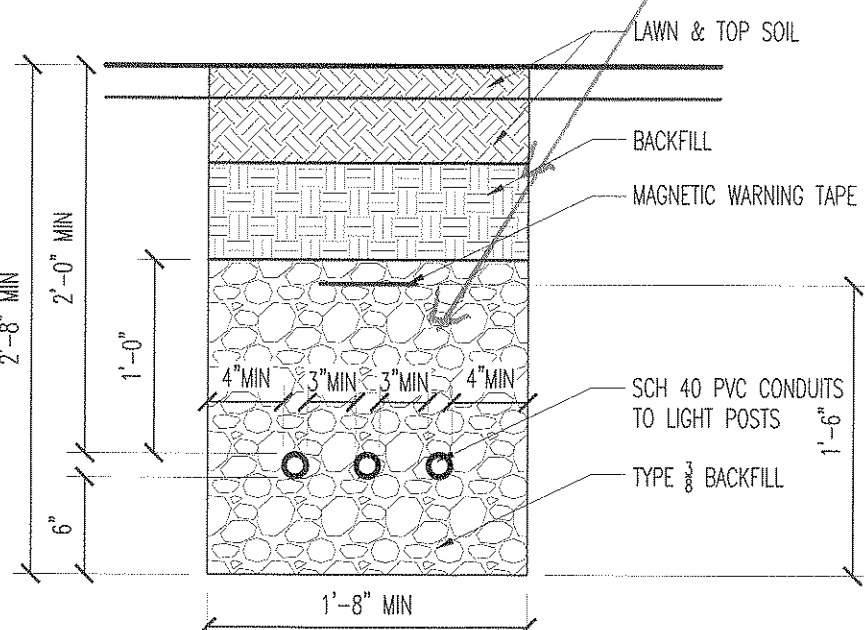
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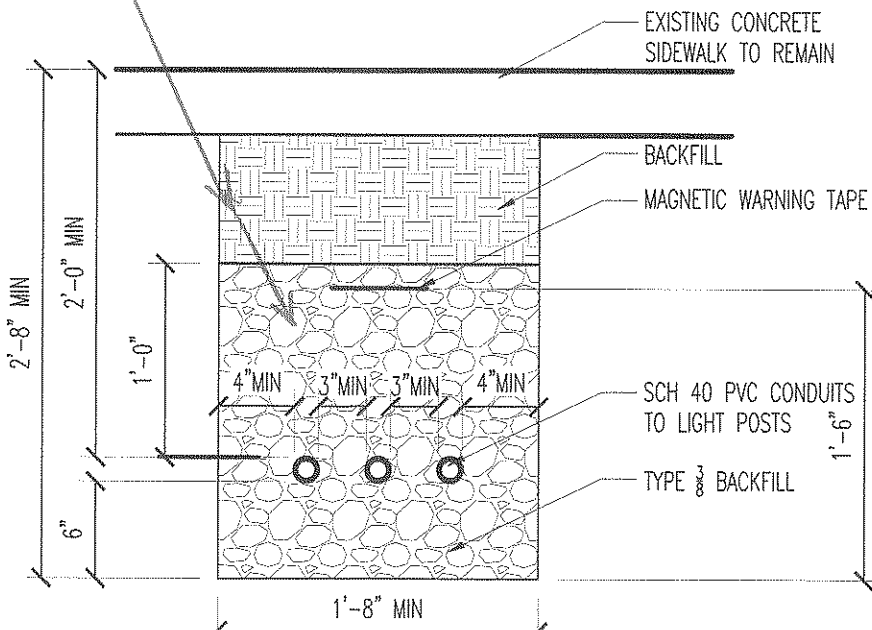


2 SITE PLAN - LIGHT POLE REPLACEMENT

SCALE 3/32" = 1'

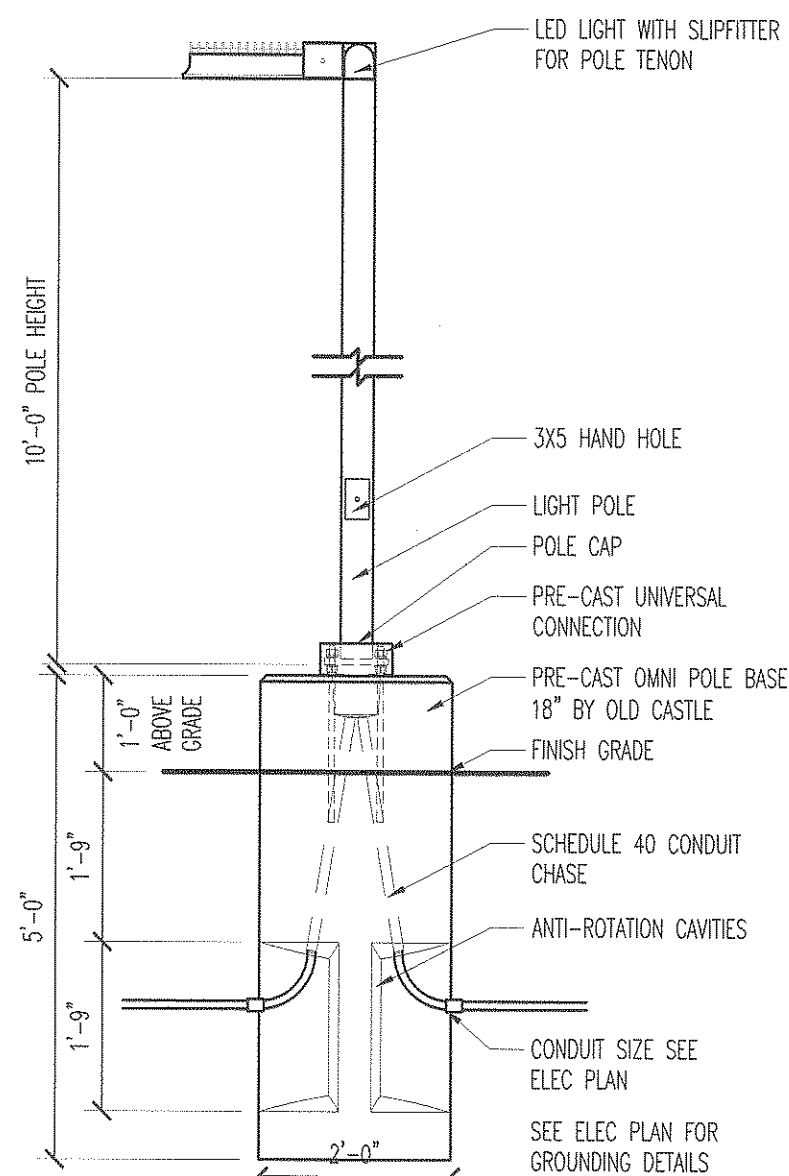


NOTE:
1. DETAIL IS FOR GENERAL INSTALLATION AND NOT FOR QUANTITY OR SIZE OF CONDUITS. SEE SINGLE LINE DRAWING. ALWAYS PROVIDE ONE SPARE CONDUIT WITHIN DUCT BANK.



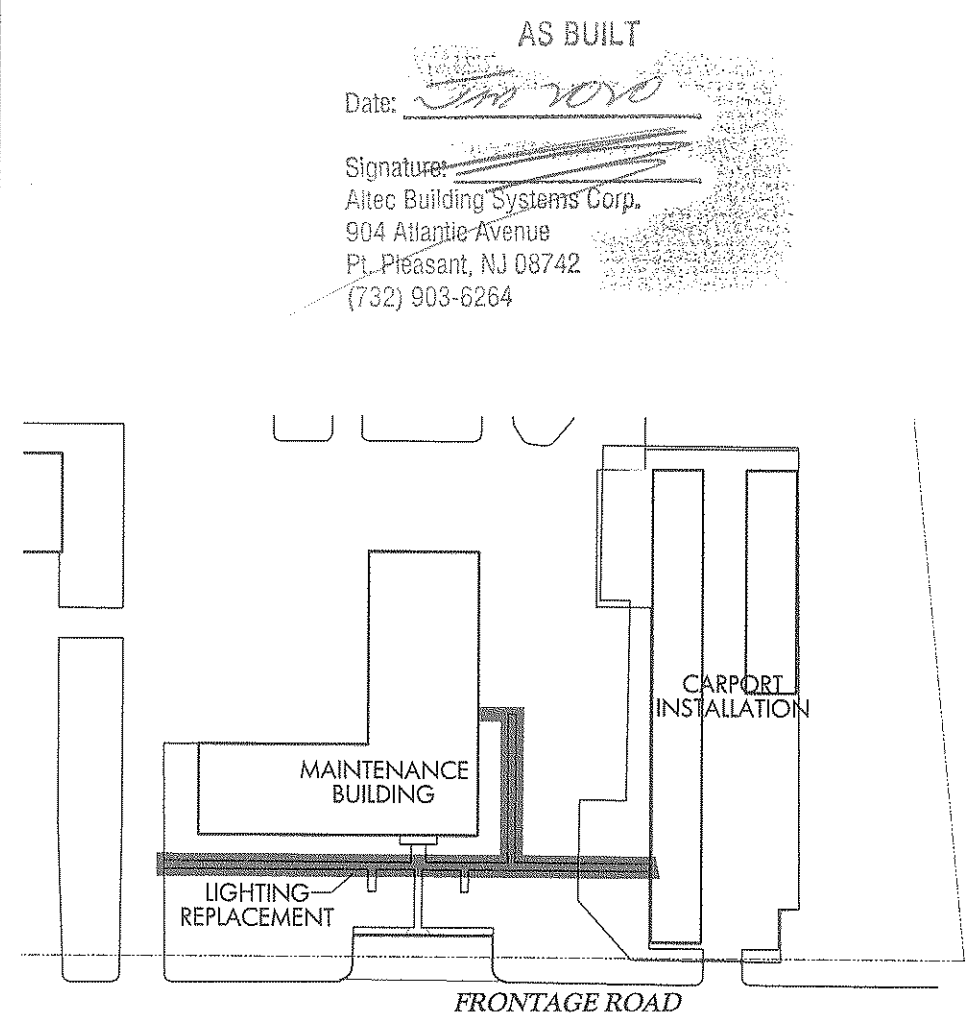
NOTE:
1. DETAIL IS FOR GENERAL INSTALLATION AND NOT FOR QUANTITY OR SIZE OF CONDUITS. SEE SINGLE LINE DRAWING. ALWAYS PROVIDE ONE SPARE CONDUIT WITHIN DUCT BANK.

AS PER RFI #V USE THIS
"OLD CASTLE BASE"



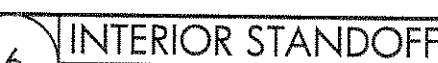
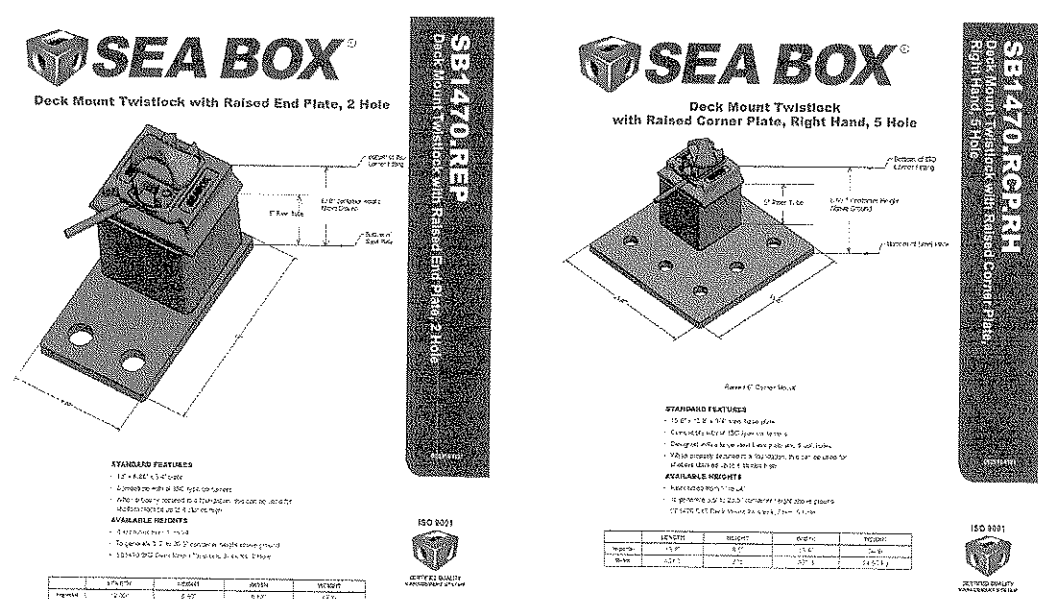
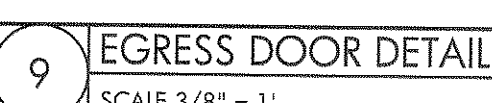
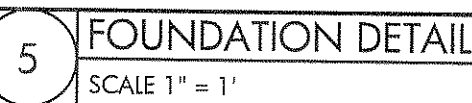
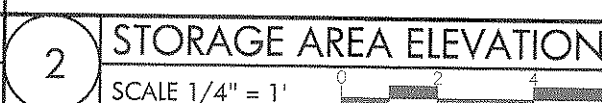
5 LIGHT POLE DETAIL

SCALE 1/2" = 1'



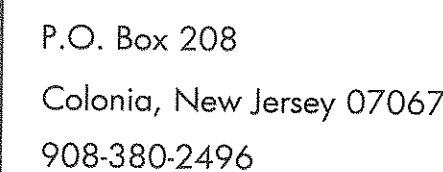
7 LIGHTING INSTALLATION KEY PLAN

NTS



RONALD J. SADOWSKI, P.E.
ENGINEERING & CONSTRUCTION MANAGEMENT
10 EDWARD AVENUE
EDISON, NEW JERSEY 08820
(732) 744-6392
ronsadowski@verizon.net

RONALD J. SADOWSKI
PROFESSIONAL ENGINEER
NYPE #38261



Michael @ StonewaterArchitecture.com
NJ Lic. No. 21A1017266
NY Lic. No. 032102

Consultant

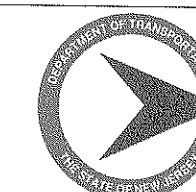
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client



New Jersey Department of the Treasury
Division of Property Management and
Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625

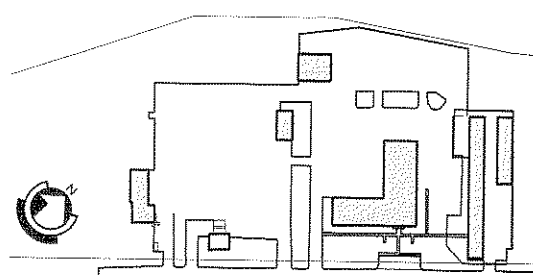


Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project

Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

Key Plan



Revision

Date:	Description:	N

Issued Document

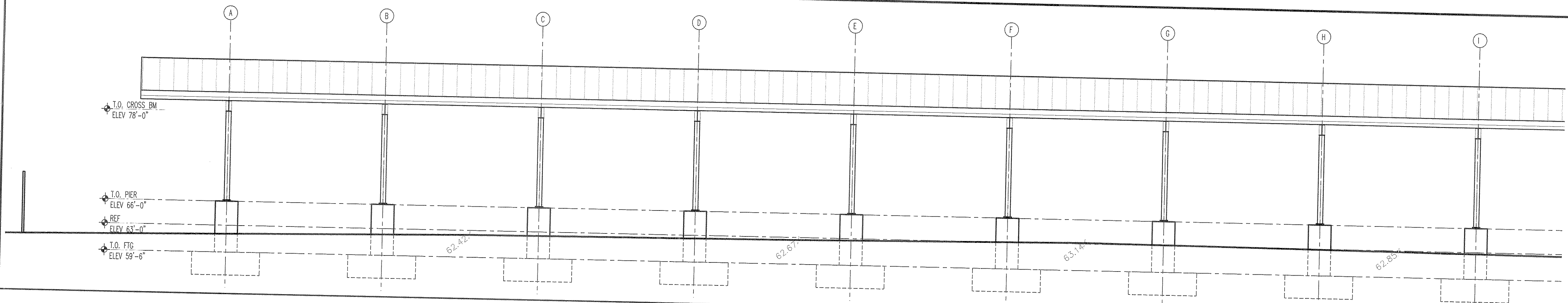
Date:	Description:
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07-16-18	Final Design Submission #3
07-31-18	Final Design Submission #4

Seal & Signal

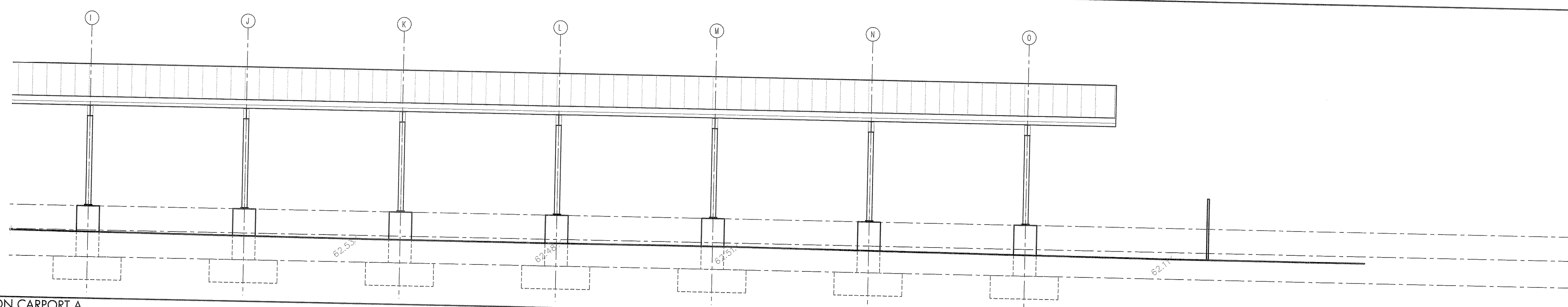
Michael A. Mor

Drawing Title:
Storage Area Plans
Elevations & Details

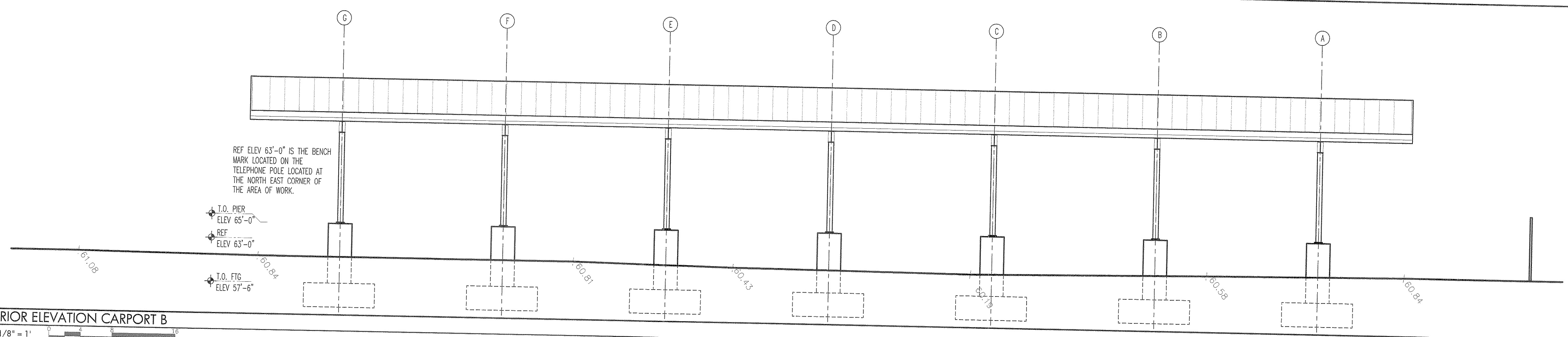
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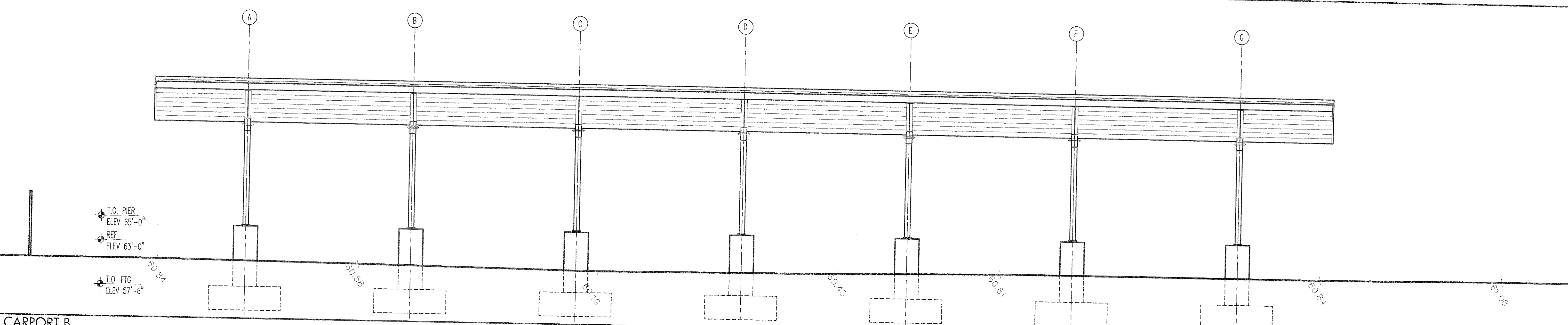
4 PARTIAL ELEVATION CARPORT A
SCALE 1/8" = 1'



3 EXTERIOR ELEVATION CARPORT A
SCALE 1/8" = 1'



2 EXTERIOR ELEVATION CARPORT B
SCALE 1/8" = 1'



1 EXTERIOR ELEVATION CARPORT B
SCALE 1/8" = 1'

AS BUILT
Date: 11/10/20
Signature: [Signature]
Altec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264



P.O. Box 208
Colonia, New Jersey 07067
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Michael@StonewaterArchitecture.com
NJ Lic. No. 21A1017266
NY Lic. No. 032102

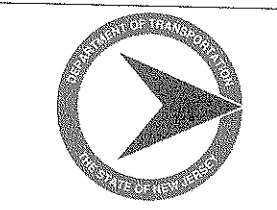
Consultants
Structural & MEP Consultant
Becht Engineering BT, Inc.
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Point Pleasant Beach, NJ 08742

Site & Civil Engineer
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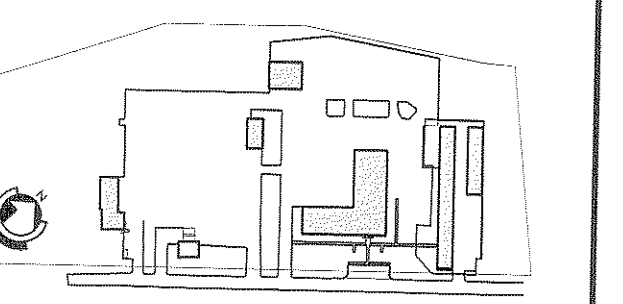
New Jersey Department of the Treasury
Division of Property Management and Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625



Department of Transportation
1035 Parkway Avenue, P.O. Box 600
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Key Plan



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07-16-18	Final Design Submission #3
07-31-18	Final Design Submission #4

Seal & Signature
Michael A. Moritz
[Signature]

Drawing Title:
Elevations

Sheet: Drawing Number:


A201.00

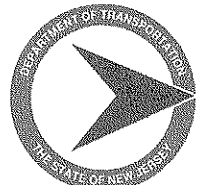


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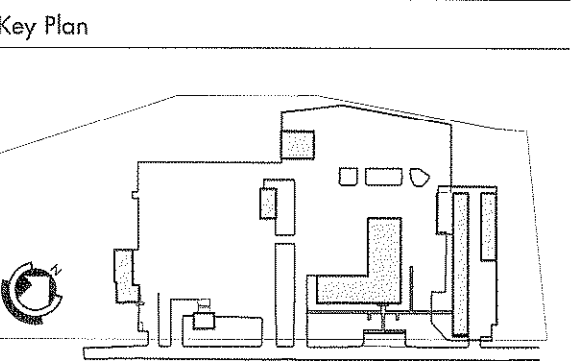
Consultants
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client

New Jersey Department of the Treasury
Division of Property Management and
Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625

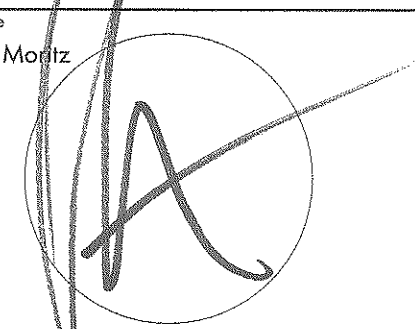

Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:
CARPORT Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

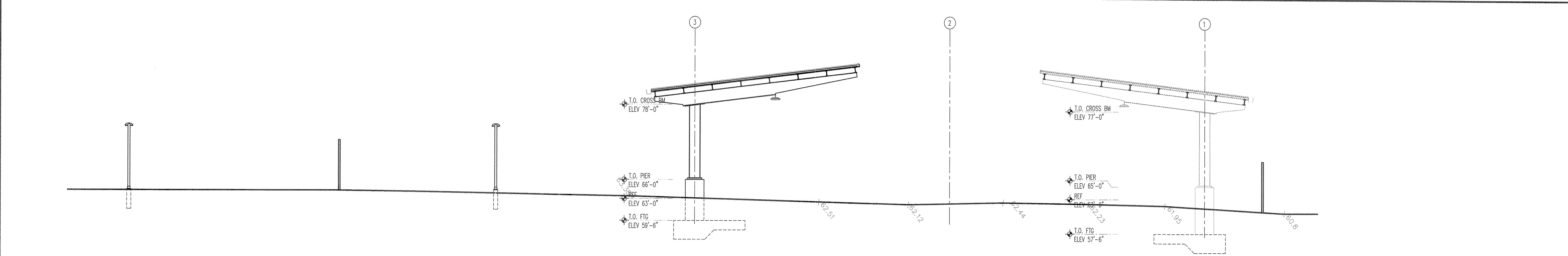


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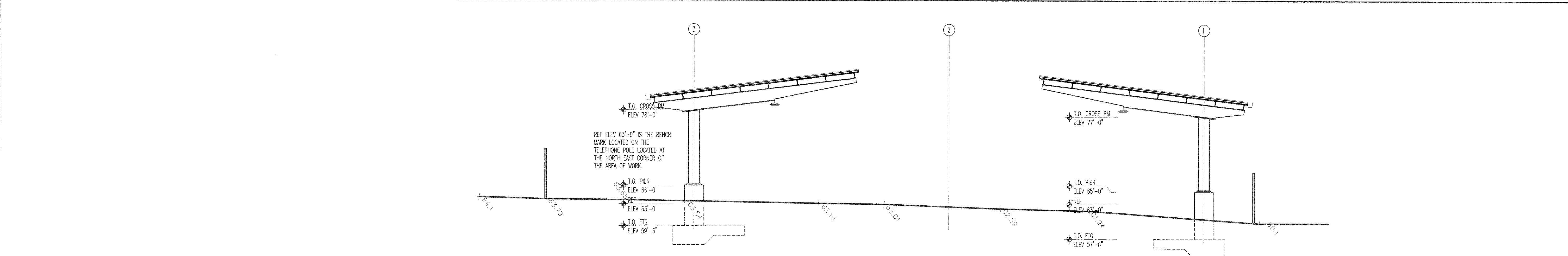
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Date:	Description:
03-15-18	Design Development 50%
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Seal & Signature
Michael A. Moritz


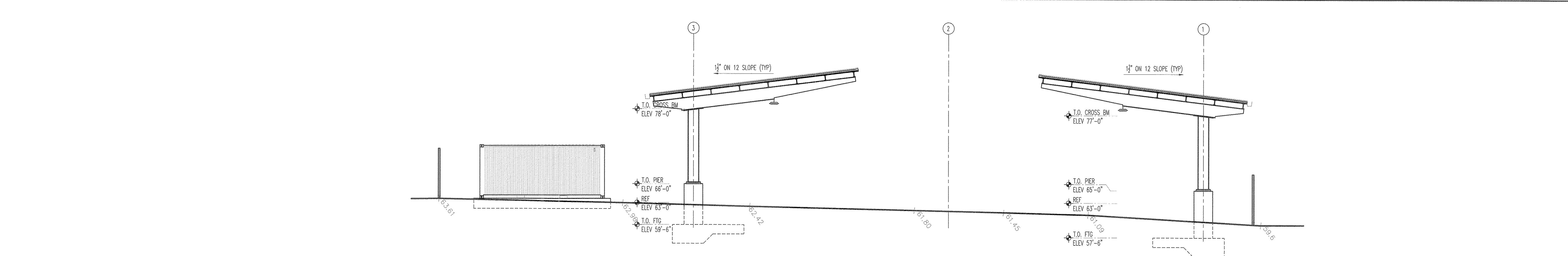
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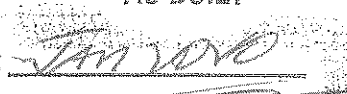
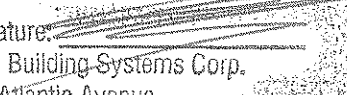
1 CARPORT SECTION 1
SCALE 1/8" = 1'

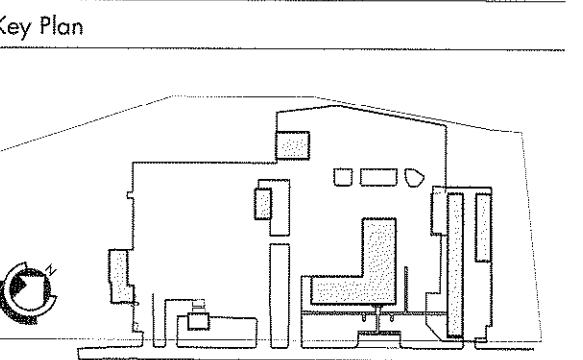


2 CARPORT SECTION 2
SCALE 1/8" = 1'



3 CARPORT SECTION 3
SCALE 1/8" = 1'

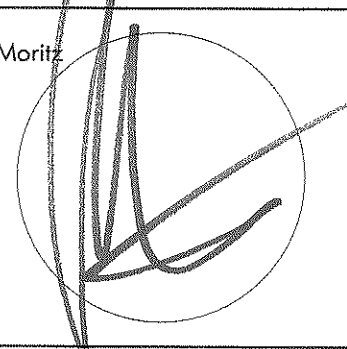
AS BUILT
Date: 
Signature: 
Altec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264



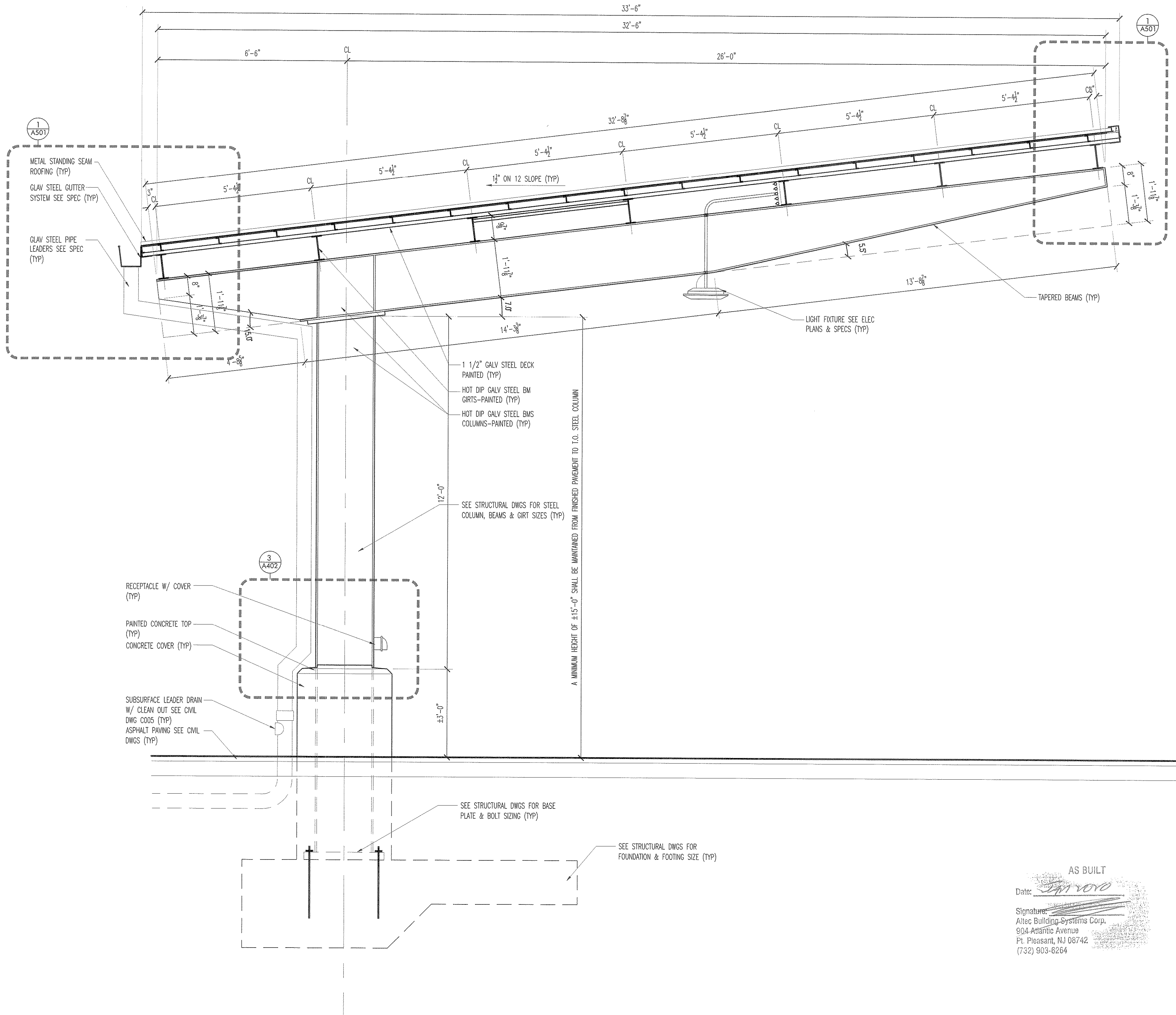
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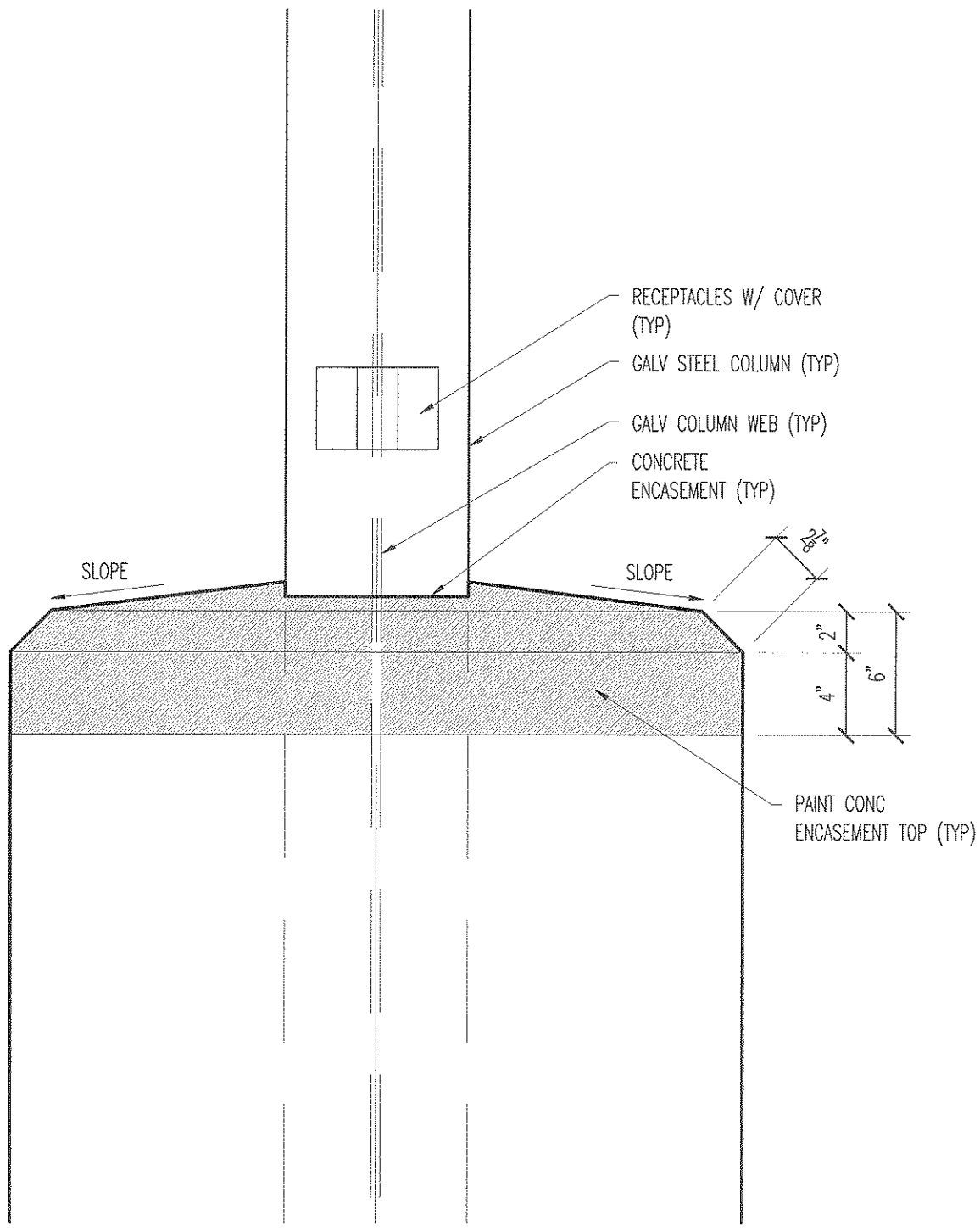
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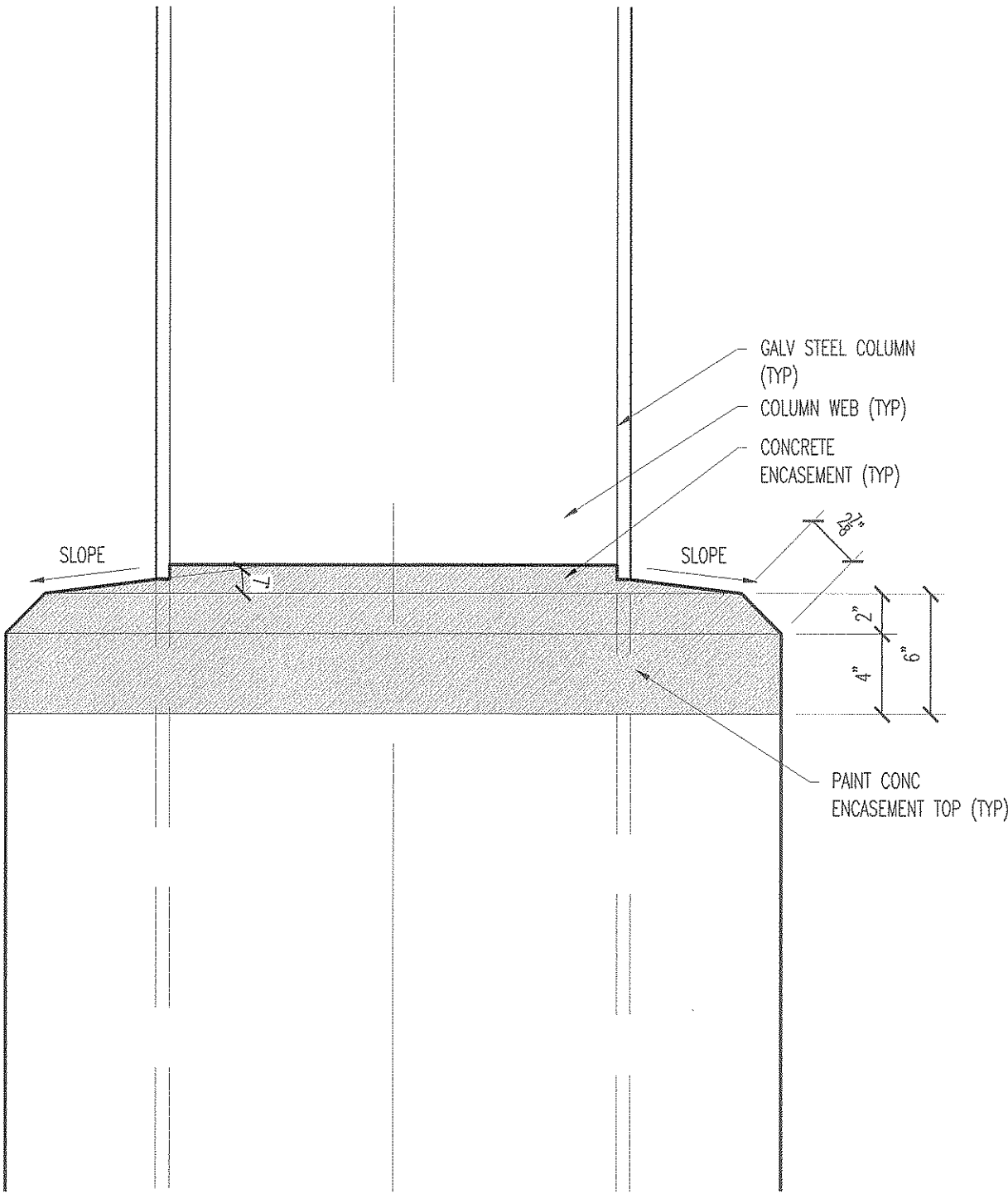
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Drawing Number:
A401.00



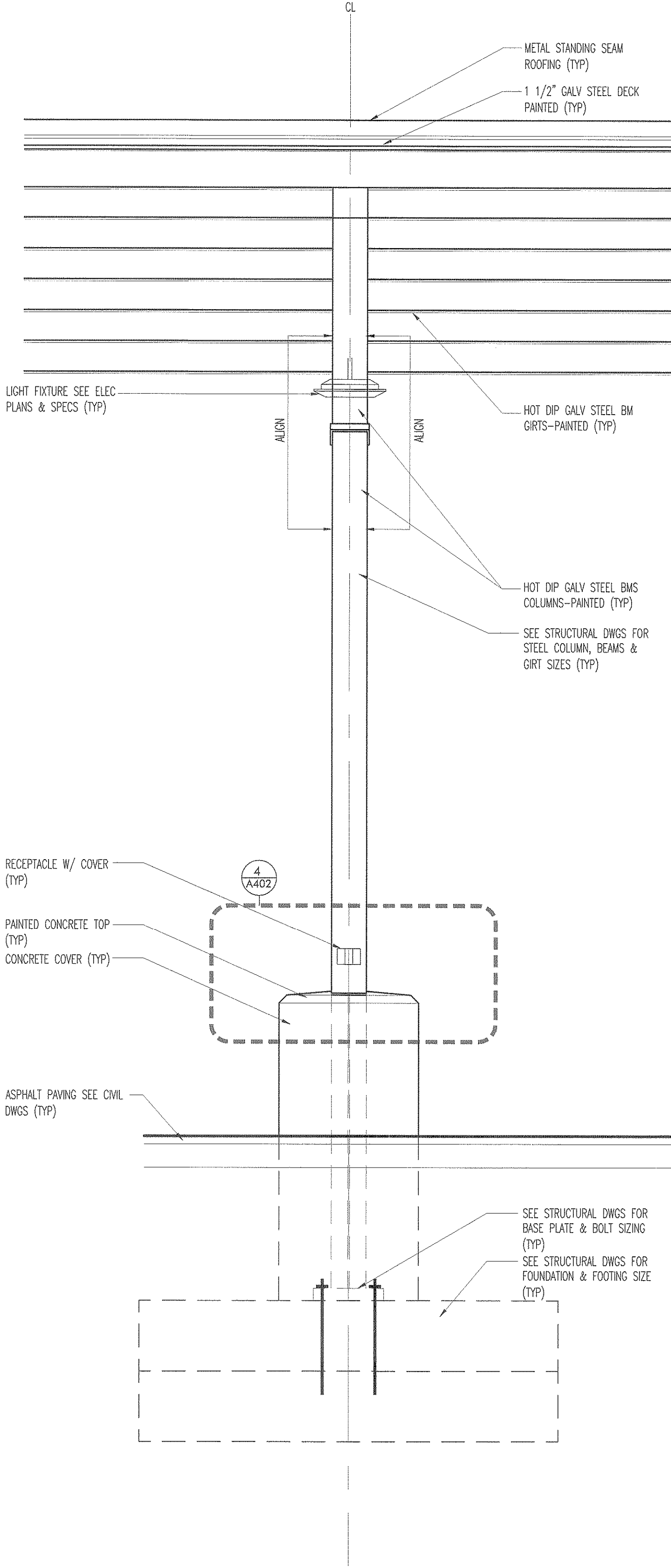
AS BUILT
Date: *07/10/20*
Signature: *[Signature]*
Altec Building Systems Corp.
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Pt. Pleasant, NJ 08742
(732) 903-6264



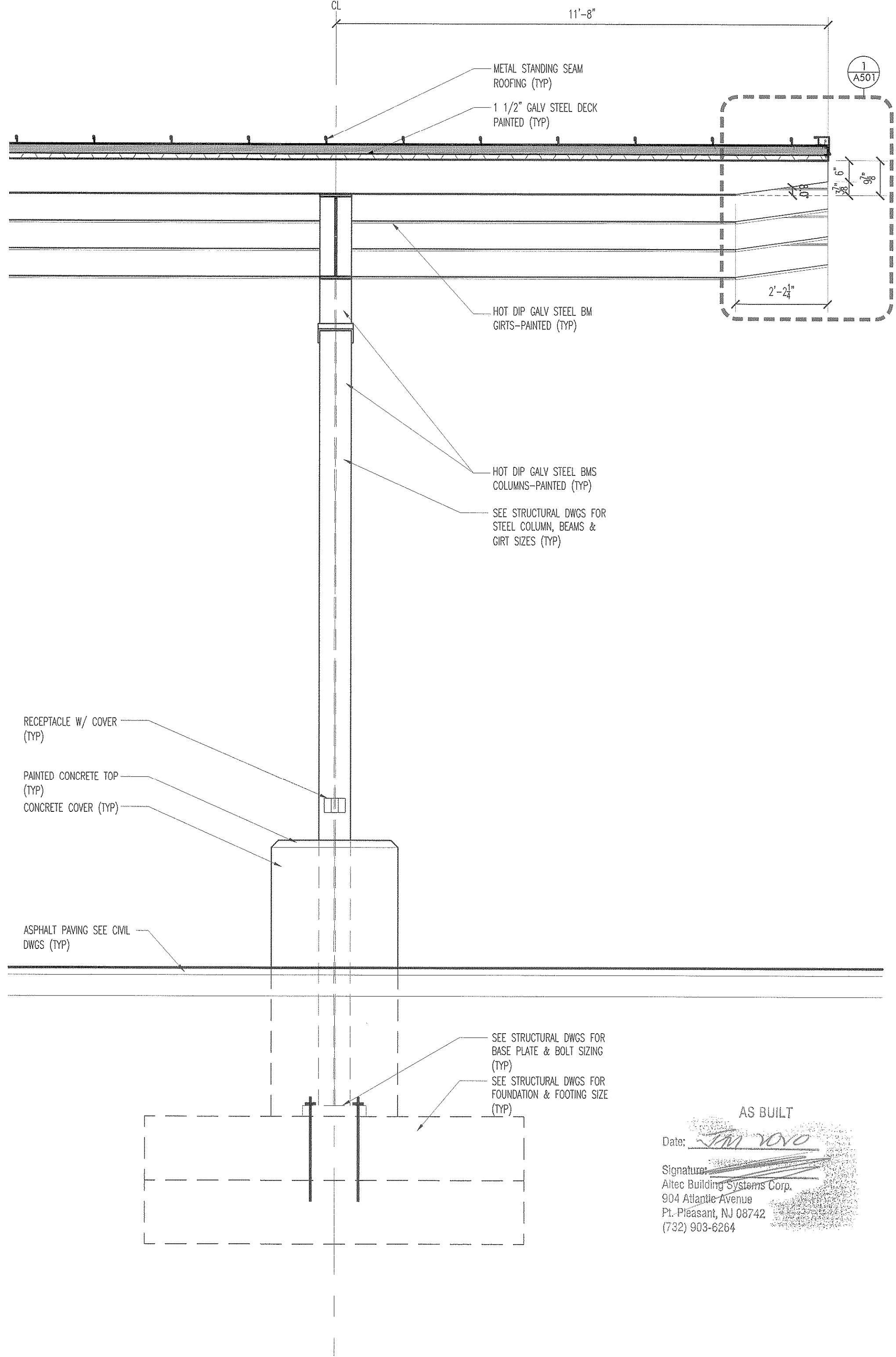
4 CONCRETE ENCASEMENT FLANGE SIDE
SCALE 1 1/2" = 1'



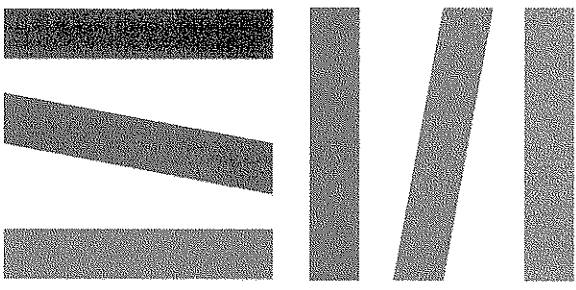
3 CONCRETE ENCASEMENT WEB SIDE
SCALE 1 1/2" = 1'



2 CARPORT SECTION
SCALE 1/2" = 1'



1 CARPORT SECTION
SCALE 1/2" = 1'



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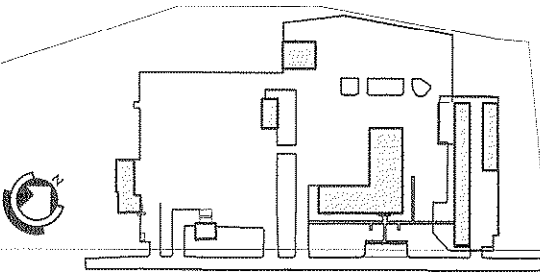
New Jersey Department of the Treasury
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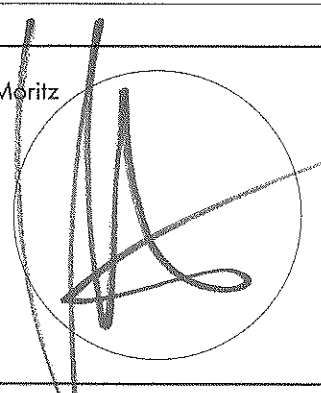
Key Plan



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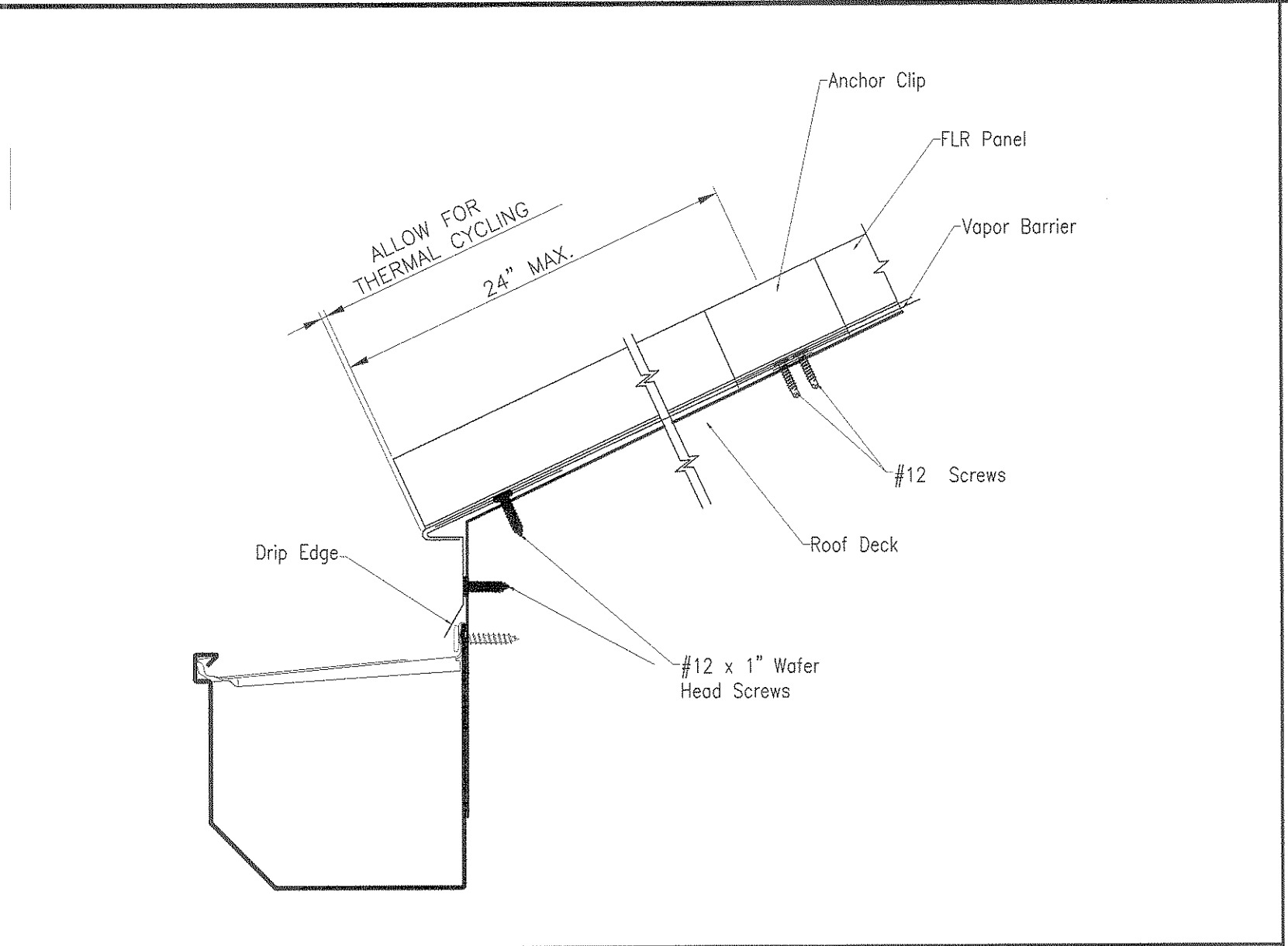


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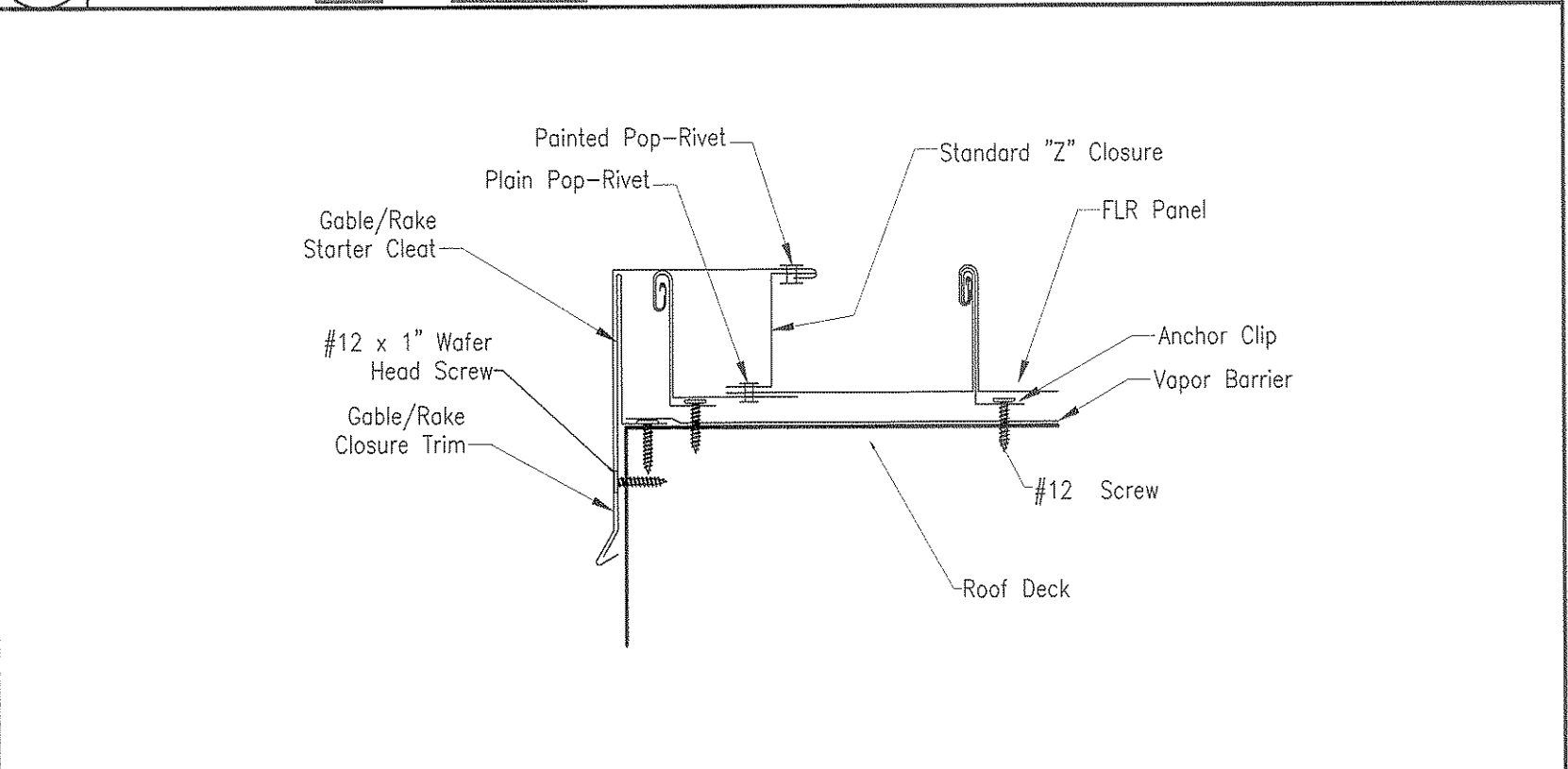
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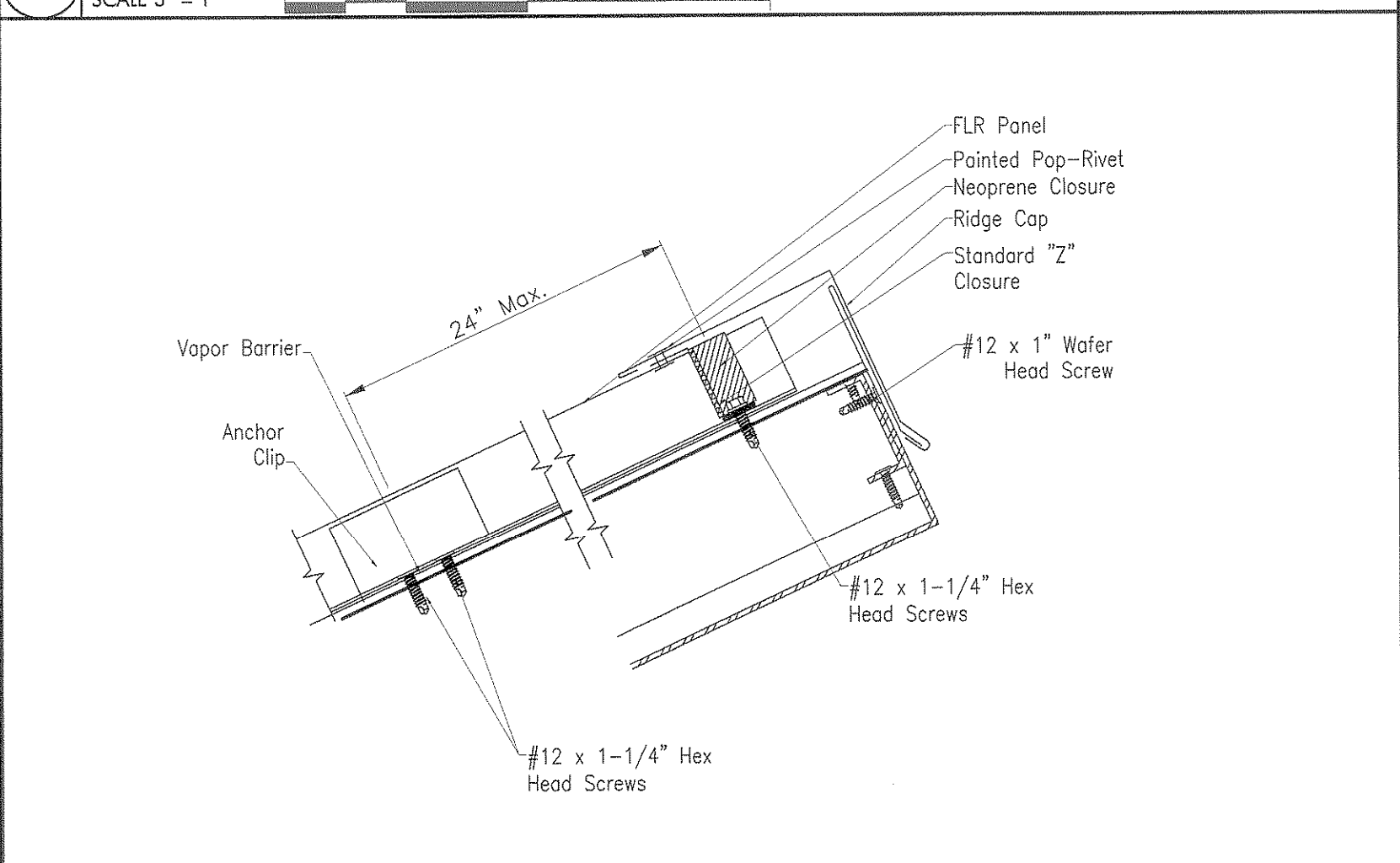
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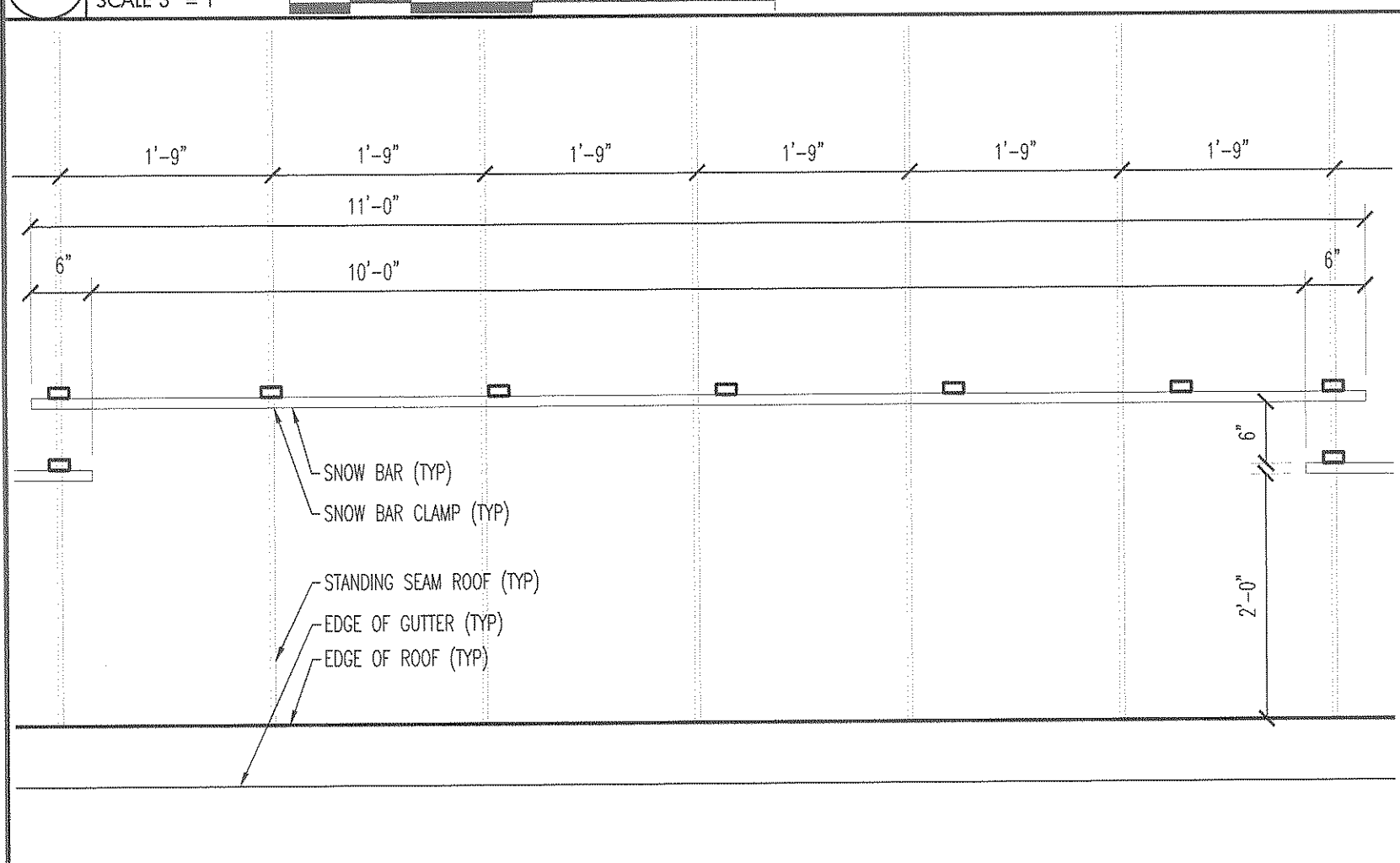
5 ROOF DETAIL - EVE EDGES
SCALE 3" = 1'



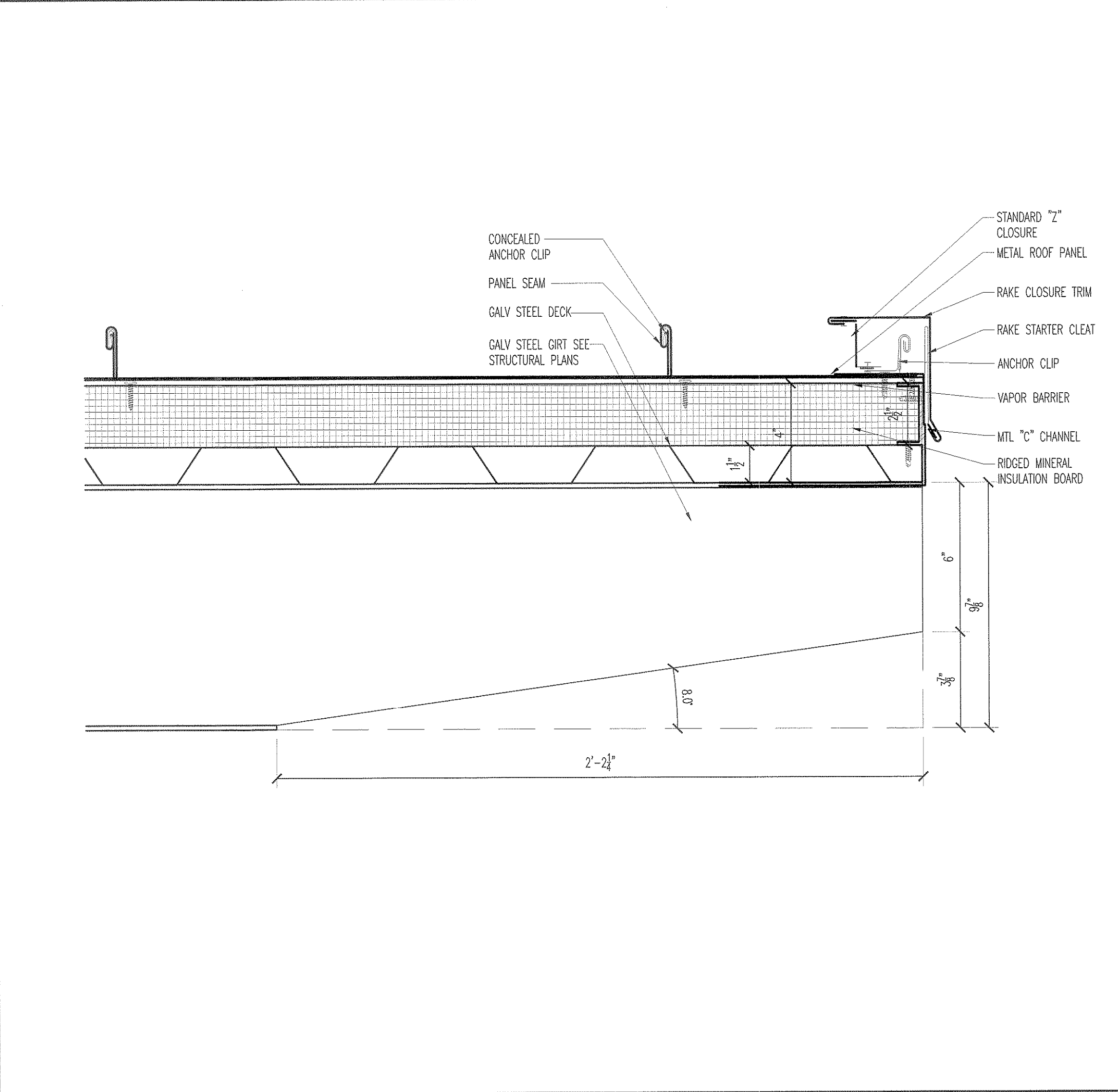
6 ROOF DETAIL - RAKE
SCALE 3" = 1'



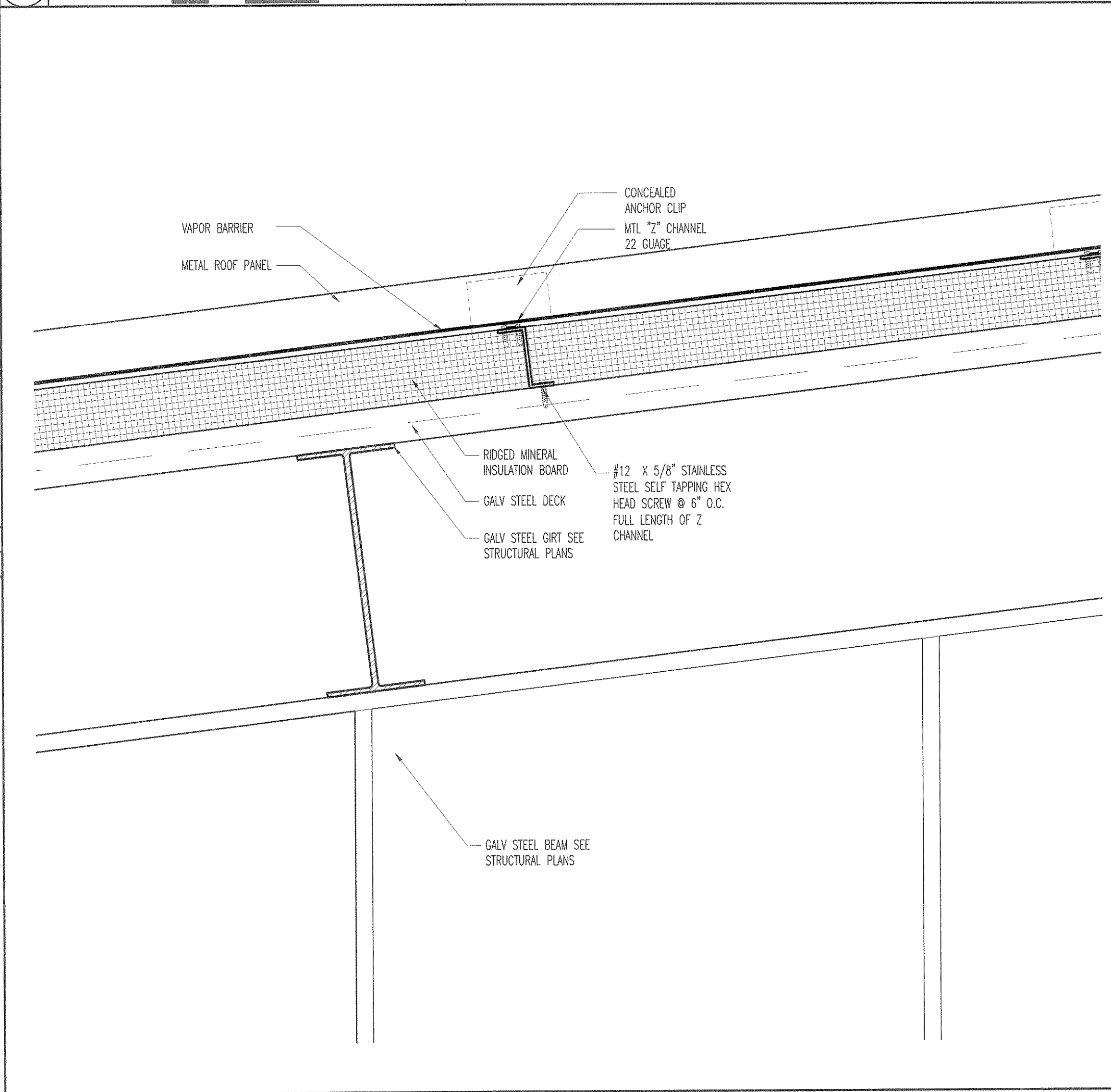
7 ROOF DETAIL - RIDGE
SCALE 3" = 1'



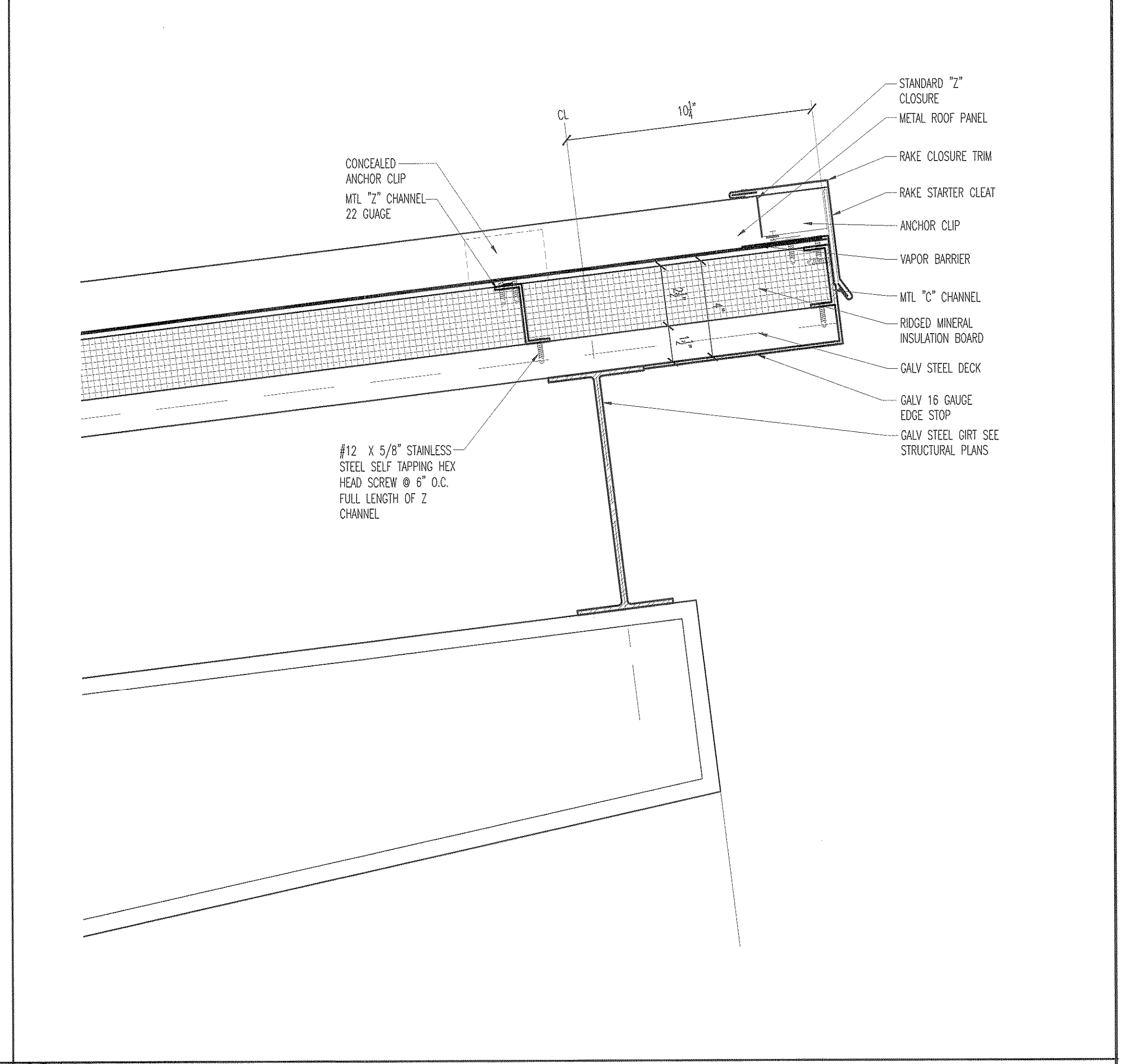
8 ROOF DETAIL - SNOW BAR
SCALE 3/4" = 1'



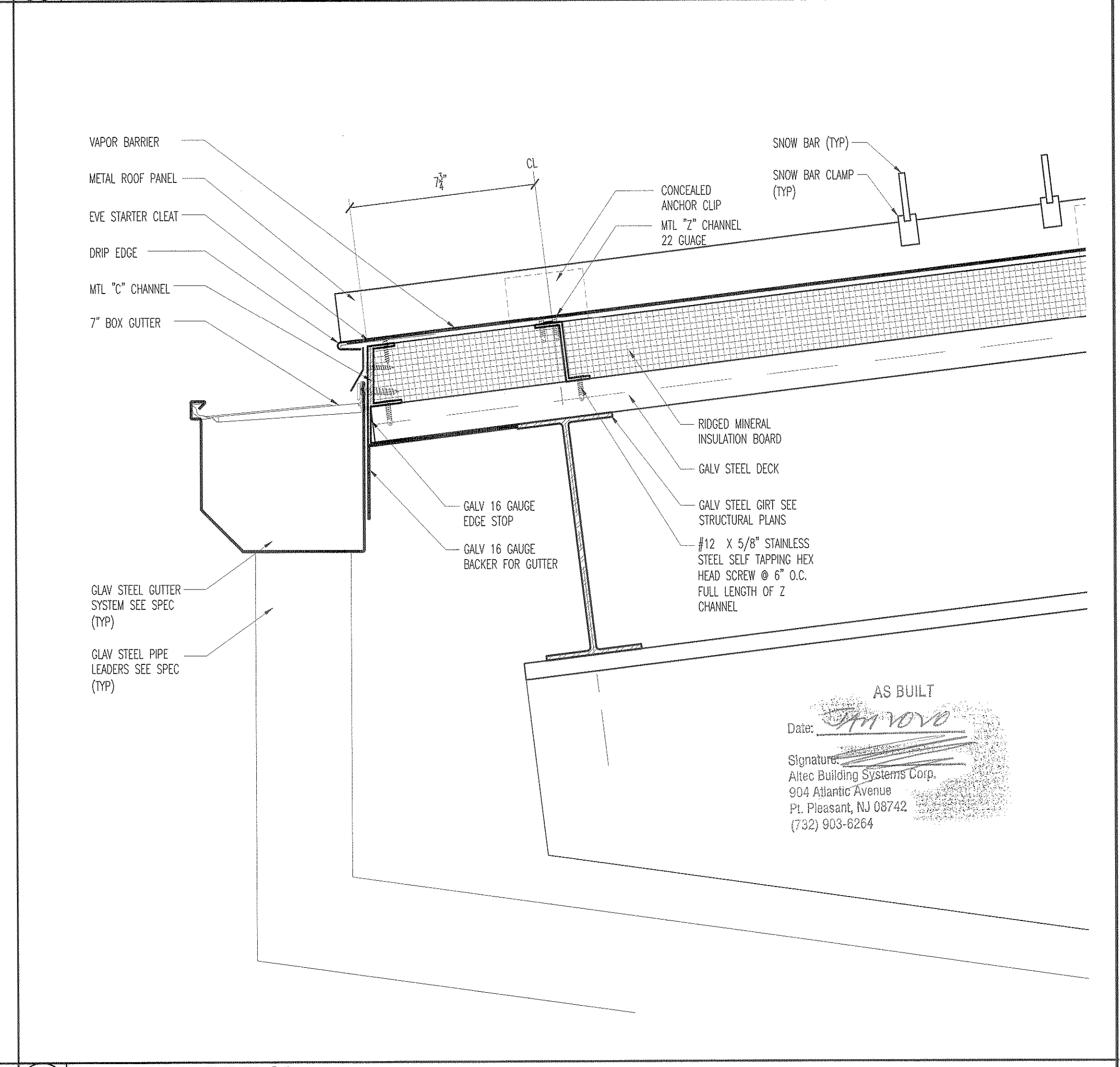
1 ROOF DETAIL - RAKE
SCALE 3" = 1'



3 ROOF DETAIL - OVER COLUMN
SCALE 3" = 1'



2 ROOF DETAIL - RIDGE
SCALE 3" = 1'




4 ROOF DETAIL - EVE EDGE
SCALE 3" = 1'



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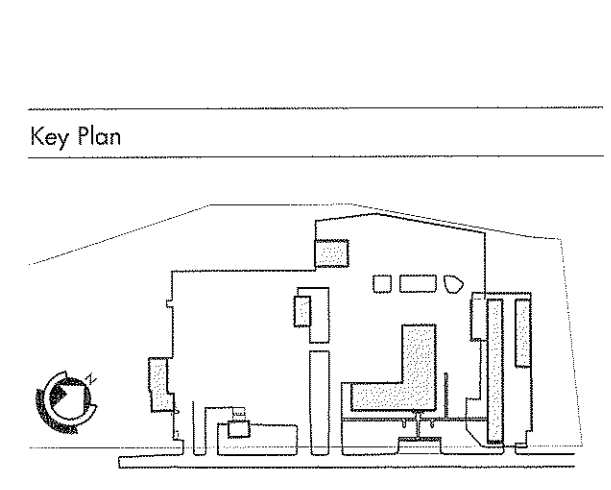
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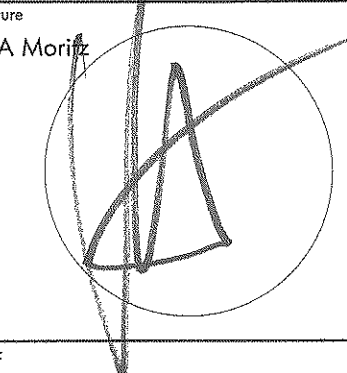

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Seal & Signature
Michael A. Moritz


Drawing Title
Roof Details
Sheet: Drawing Number:
A501.00

GENERAL NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
- THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
- BEFORE SUBMITTING A BID FOR THE WORK TO BE DONE, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND LOCATIONS OF EXISTING STRUCTURES.
- THE CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL CUSTOMARILY REQUIRED INSURANCE.
- THE CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
- THE CONTRACTOR SHALL FURNISH AND DO EVERYTHING NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE TERMS OF THIS CONTRACT, INCLUDING ALL GENERAL AND DETAILED SPECIFICATIONS. THE WORK TO BE DONE UNDER ANY ITEM SHALL NOT BE LIMITED TO THE EXACT EXTENT MENTIONED OR DESCRIBED, BUT SHALL INCLUDE ALL INCIDENTAL WORK NECESSARY OR CUSTOMARILY DONE FOR THE COMPLETION OF THAT ITEM.
- UPON COMPLETION OF THE PROJECT, IF WORK IS NOT ACCEPTABLE TO THE ENGINEER, HE WILL ADVISE THE CONTRACTOR AS TO THE PARTICULAR DEFECTS TO BE REMEDIED BEFORE FINAL ACCEPTANCE WILL BE MADE. THE FINAL INSPECTION AND ACCEPTANCE WILL BE MADE BY THE OWNER AND ENGINEER UPON CONTRACTOR NOTIFICATION THAT THE PROJECT IS COMPLETED.
- BEFORE FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY BUILDINGS.
- THE CONTRACTOR SHALL GUARANTEE HIS WORK TO BE FREE FROM DEFECTS FOR A PERIOD OF FIVE YEARS AFTER THE DATE OF COMPLETION.
- THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED TO PROTECT WORKMEN, MATERIALS, OTHER PROPERTIES, AND THE PUBLIC.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR SEQUENCES AND PROCEDURES TO BE USED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY ASPECTS OF THE WORK.

GENERAL CONCRETE NOTES:

- DESIGN AND DETAILING OF CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH CURRENT BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318 LATEST EDITION) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301 LATEST EDITION).
- ALL CONCRETE, INCLUDING FOUNDATION WORK, IS TO BE VIBRATED. PROPER USE OF VIBRATORS IS REQUIRED. VIBRATORS SHALL NOT BE USED TO TRANSPORT CONCRETE.
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304, LATEST EDITION. CONCRETE SHALL NOT BE SUBJECT TO DROPS IN EXCESS OF 5 FEET.
- ALL STRUCTURAL CONCRETE FOR FOUNDATIONS SHALL BE PORTLAND CEMENT STONE CONCRETE HAVING A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- ALL STRUCTURAL CONCRETE FOR SLABS-ON-GRADE SHALL BE PORTLAND CEMENT STONE CONCRETE HAVING A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- USE AIR-ENTRAINED ADMIXTURE IN ALL CONCRETE UNLESS OTHERWISE SHOWN OR SPECIFIED. ADD AIR-ENTRAINING ADMIXTURE AT THE MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT THE POINT OF PLACEMENT HAVING AIR CONTENT OF SIX PERCENT PLUS OR MINUS ONE PERCENT AS DETERMINED IN ACCORDANCE WITH "STANDARD TEST METHODS FOR AIR CONTENT OF FRESHLY MIXED CONCRETE BY THE PRESSURE METHOD", ASTM C231; OR "STANDARD TEST METHOD FOR AIR CONTENT OF FRESHLY MIXED CONTENT BY THE VOLUMETRIC METHOD", ASTM C173.
- CONCRETE COLD WEATHER PLACING SHALL BE IN COMPLIANCE WITH CURRENT BUILDING CODE REQUIREMENTS FOR COLD WEATHER CONCRETING (ACI 306).
- CONCRETE HOT WEATHER PLACING SHALL BE IN COMPLIANCE WITH CURRENT BUILDING CODE REQUIREMENT FOR HOT WEATHER CONCRETING (ACI 305).

GENERAL STEEL NOTES:

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECIFICATIONS, FOURTEENTH EDITION, FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- USE ASTM A-36, (FY = 36 KSI) FOR STRUCTURAL STEEL, U.N.O. USE ASTM A592 (FY = 50 KSI) FOR WIDE FLANGE MEMBERS. USE ASTM A500 (FY = 46 KSI) FOR STRUCTURAL TUBES, ASTM A307, GRADE A, FOR ANCHOR BOLTS. ASTM A325, TYPE 1 OR 2, FOR HIGH STRENGTH THREADED FASTENERS.
- ARC-WELDING ELECTRODES SHALL BE: AWS 5.1 SERIES E70 FOR MANUAL ARC-WELDING UNLESS OTHERWISE NOTED.
- ALL BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN BOLTS.
- IN THE ABSENCE OF SPECIFICATIONS, SHOP PAINT ALL NON-GALVANIZED STEEL WITH RED OXIDE PRIMER, MIN. DRY FILM THICKNESS 2 MILS.
- UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS, CONTRACTOR SHALL FURNISH AND INSTALL ADEQUATE SHORING, TEMPORARY BRACING ETC. REQUIRED TO SAFELY EXECUTE ALL WORK AND SHALL BE FULLY RESPONSIBLE FOR THE SAME.
- ALL WELDING SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE" LATEST EDITION.
- ALL WELDS SHALL BE UNIFORM IN SIZE AND APPEARANCE AND FREE OF PINHOLES, POROSITY, UNDERCUTTING OR OTHER DEFECTS.

METAL DECKING NOTES:

- ALL METAL ROOF, FLOOR AND/OR FORM DECK SHALL CONFORM TO THE AMERICAN IRON AND STEEL INSTITUTE'S "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
- METAL ROOF DECK SHALL BE 1-1/2" DEEP, 20 GAGE (MINIMUM) TYPE "B" (WIDE RIB) DECK WITH A MINIMUM SECTION MODULUS $S_x = 0.234 \text{ IN}^3/\text{FT}$ AND A MOMENT OF INERTIA $I = 0.212 \text{ IN}^4/\text{FT}$, UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS. STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A833, GRADE 33.
- ALL ROOF, FORM AND/OR FLOOR DECKING SHALL BE GALVANIZED, SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS. (ROOF DECKING SHALL BE PRIME PAINTED ONE COAT OF NON-LEAD GRAY PAINT).
- ALL DECKING SHALL BE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADS, AS PER "STEEL DECK INSTITUTE GUIDE TO FLOOR DECK AND ROOF DECKS". MINIMUM CONSTRUCTION LOADING SHALL BE 20 PSF.
- ALL DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SUPPORTS (I.E. A THREE SPAN MEMBER), AND BE PLUG WELDED, THRU WELDING WASHERS PLACED IN THE RIB BOTTOMS, TO THE STRUCTURAL MEMBERS.
- ALL ROOF DECKING SHALL HAVE NESTING SIDE LAPS AND BE MECHANICALLY FASTENED USING 5/8" DIAMETER PUDDLE WELDS.
- ANY ELECTRICAL FIXTURES, ETC., WEIGHING MORE THE 5 PSF, SHALL BE HUNG FROM THE MAIN STRUCTURAL STEEL FRAME ONLY. FOR HANGER REQUIREMENTS, SEE SPECIFICATIONS.
- ALL PIPING AND HVAC UNITS SHALL BE HUNG FROM THE MAIN STEEL FRAME ONLY.
- WHERE METAL DECKING BEARS ON STRUCTURAL STEEL SUPPORTS THAT HAVE DIFFERENT SLOPES, OR ONE MEMBER IS HORIZONTAL AND THE OTHER SLOPES, THE METAL DECK MAY BE CUT TO A SINGLE SPAN CONDITION WHENEVER THE DECK STIFFNESS IS SUCH THAT IT CANNOT BE WARPED TO BEAR ON THE MEMBERS. WHENEVER THE DECK SPAN IS REDUCED TO A SINGLE SPAN CONDITION, THE DECK GAGE SHALL BE INCREASED, AS REQUIRED, TO SAFELY SUPPORT THE SPECIFIED DESIGN LIVE AND DEAD LOADINGS. EACH END OF THE SINGLE SPAN DECK SHALL BE FASTENED TO THE SUPPORTING MEMBERS AS PER NOTE 5.
- AFTER INSTALLATION, ALL WELDS SHALL BE PAINTED WITH A RUST INHIBITIVE PAINT.

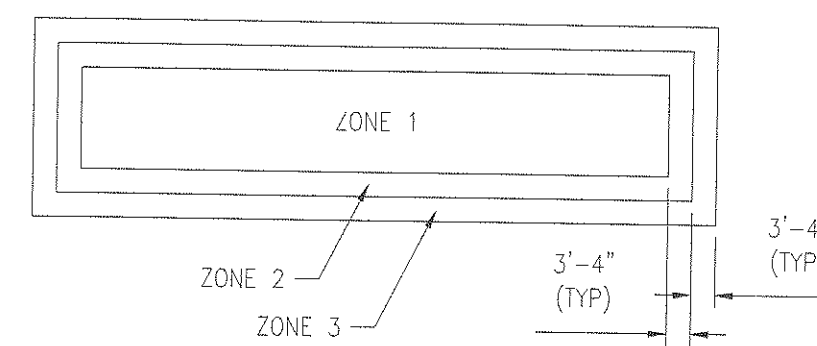
ALL NEW STEEL SHALL BE HOT DIPPED GALVANIZED.

DESIGN LOADS NOTES:

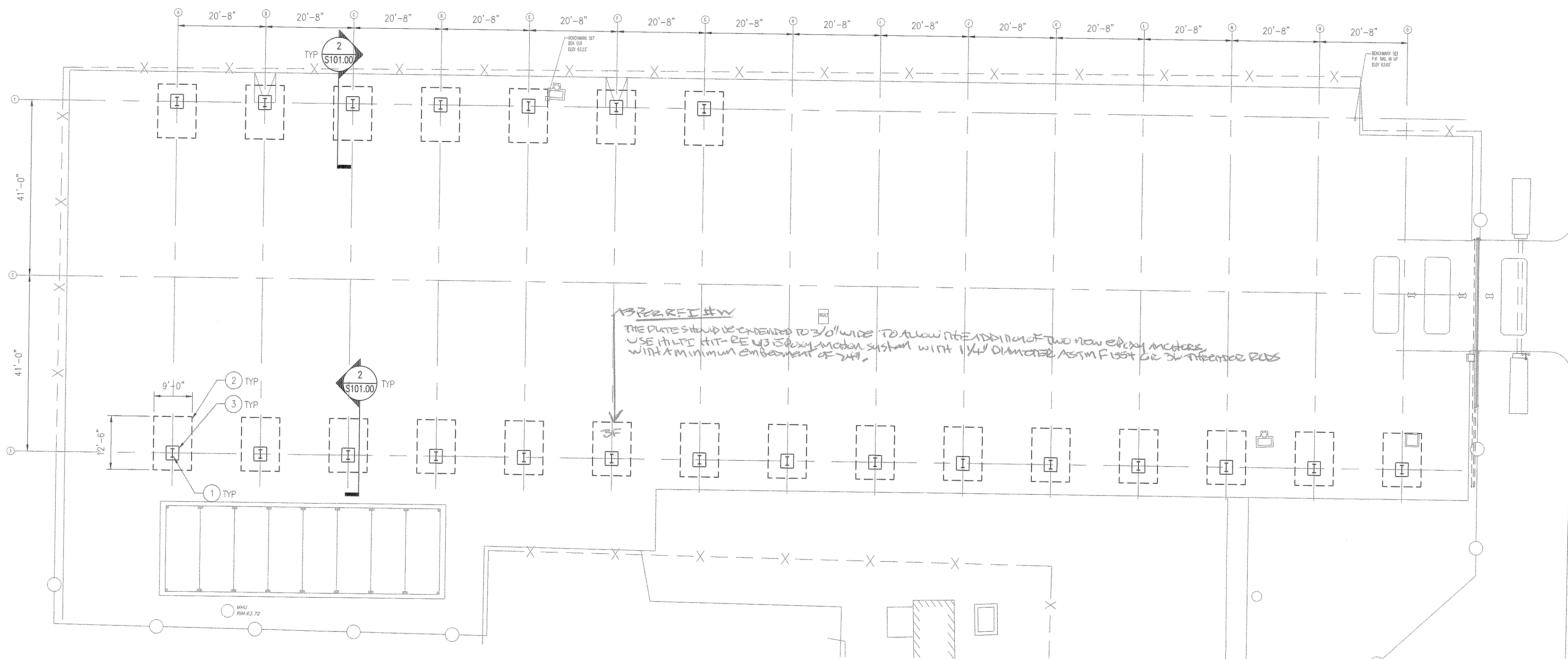
- SNOW LOADS USED IN THE STRUCTURAL DESIGN OF THE PROJECT HAVE BEEN DETERMINED USING THE FOLLOWING CRITERIA:
GROUND SNOW LOAD, P_g = 25 PSF
EXPOSURE FACTOR, C_e = 0.9
LOAD IMPORTANCE FACTOR, I = 1.0
MINIMUM FLAT ROOF SNOW LOAD, P_f = 20 PSF
- WIND LOADING DESIGN PRESSURES USED IN THE STRUCTURAL DESIGN OF THE PROJECT HAVE BEEN DETERMINED USING THE FOLLOWING CRITERIA:
BASIC WIND SPEED = 115 MPH
OCCUPANCY CATEGORY = II
WIND EXPOSURE CATEGORY = B
DESIGN PRESSURES FOR COMPONENTS AND CLADDING: SEE TABLE AND DIAGRAM ON S100.00.
- SEISMIC LOADING USED IN THE STRUCTURAL DESIGN OF THE PROJECT HAVE BEEN DETERMINED USING THE FOLLOWING CRITERIA:
SDS = 0.209
SD1 = 0.095
SITE CLASS = D
SEISMIC DESIGN CATEGORY = B
- DEAD LOADS USED IN THE DESIGN OF THE PROJECT ARE AS FOLLOWS:
1-1/2" STANDING SEAM METAL ROOF = 1.5 PSF
2-1/2" "Z" CHANNELS = 0.32 PSF
2-1/2" RIGID ROCKWOOL INSULATION = 1.7 PSF
1-1/2" 20 GA. METAL DECKING = 2.2 PSF
ALLOWANCE FOR FUTURE SOLAR PANELS = 5.0 PSF
TOTAL = 10.72 PSF
- THE CONSTRUCTION/MAINTENANCE LIVE LOADS USED IN THE DESIGN OF THE PROJECT ARE:
UNIFORM CONCENTRATED = 20 PSF / 300 LBS
- SOIL PROPERTIES USED IN THE DESIGN OF THE PROJECT ARE AS FOLLOWS (PRESENTED IN REPORT NO. 17006320A, PREPARED BY MASER CONSULTING P.A.):
TOTAL UNIT WEIGHT = 120 PCF
INTERNAL FRICTION ANGLE = 30°
ALLOWABLE END BEARING CAPACITY = 2,500 PSF

ZONE	EFF. AREA (SQ. FT)	POS. PRESSURE (PSF)	NEG. PRESSURE (PSF)
1	11.0	26.9	-23.6
	22.0	26.9	-23.6
	44.1	26.9	-23.6
2	11.0	40.4	-35.5
	22.0	40.4	-35.5
	44.1	26.9	-23.6
3	11.0	53.9	-70.9
	22.0	40.4	-35.5
	44.1	26.9	-23.6

ZONE DIAGRAM FOR COMPONENTS AND CLADDING



1 KEY PLAN
S100.00 SCALE: N.T.S.



2 FOUNDATION PLAN
S100.00 SCALE: 1/16" = 1'-0"

NOTES:

- NEW STEEL COLUMN, SEE 1/S101.00.
- NEW CONCRETE FOOTING, SEE 3/S101.00.
- NEW CONCRETE ENCASEMENT, SEE 3/S101.00.

AS BUILT

Date:

Signature: *Richard Burke*
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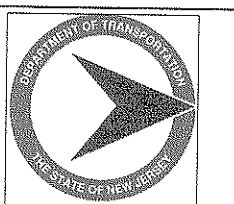
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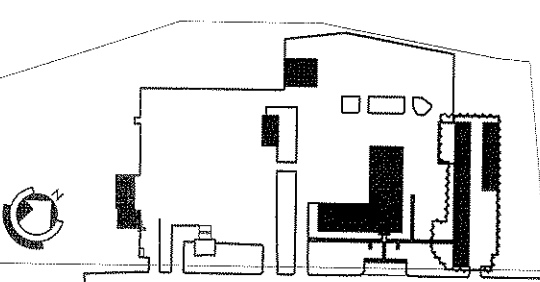


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Richard Burke
8-31-18

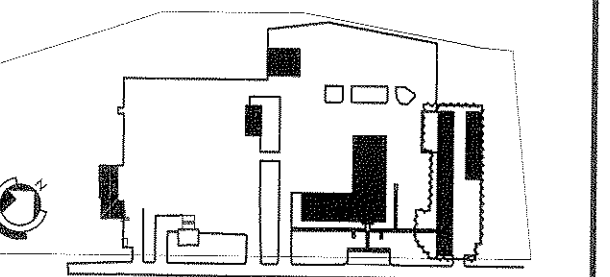
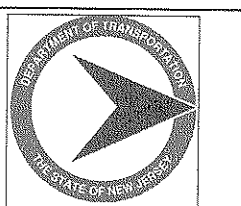
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General Notes, Key Plan, and
Foundation Plan

Sheet:

Drawing Number:

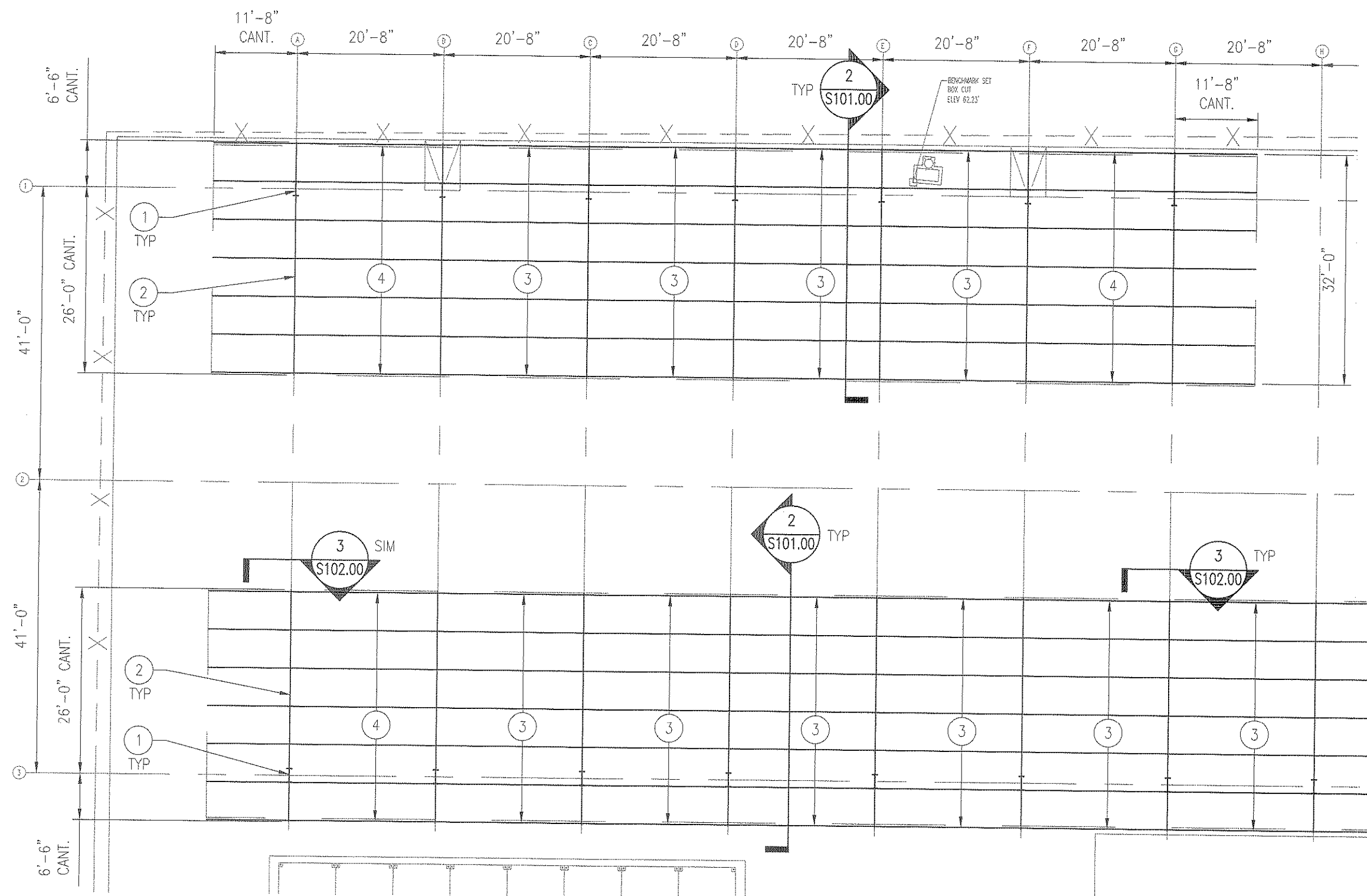
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Date:	Description:	No.
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04-28-18	Final Design Submission	
05-21-18	Final Design Submission 2	
07-16-18	Final Design Submission 3	

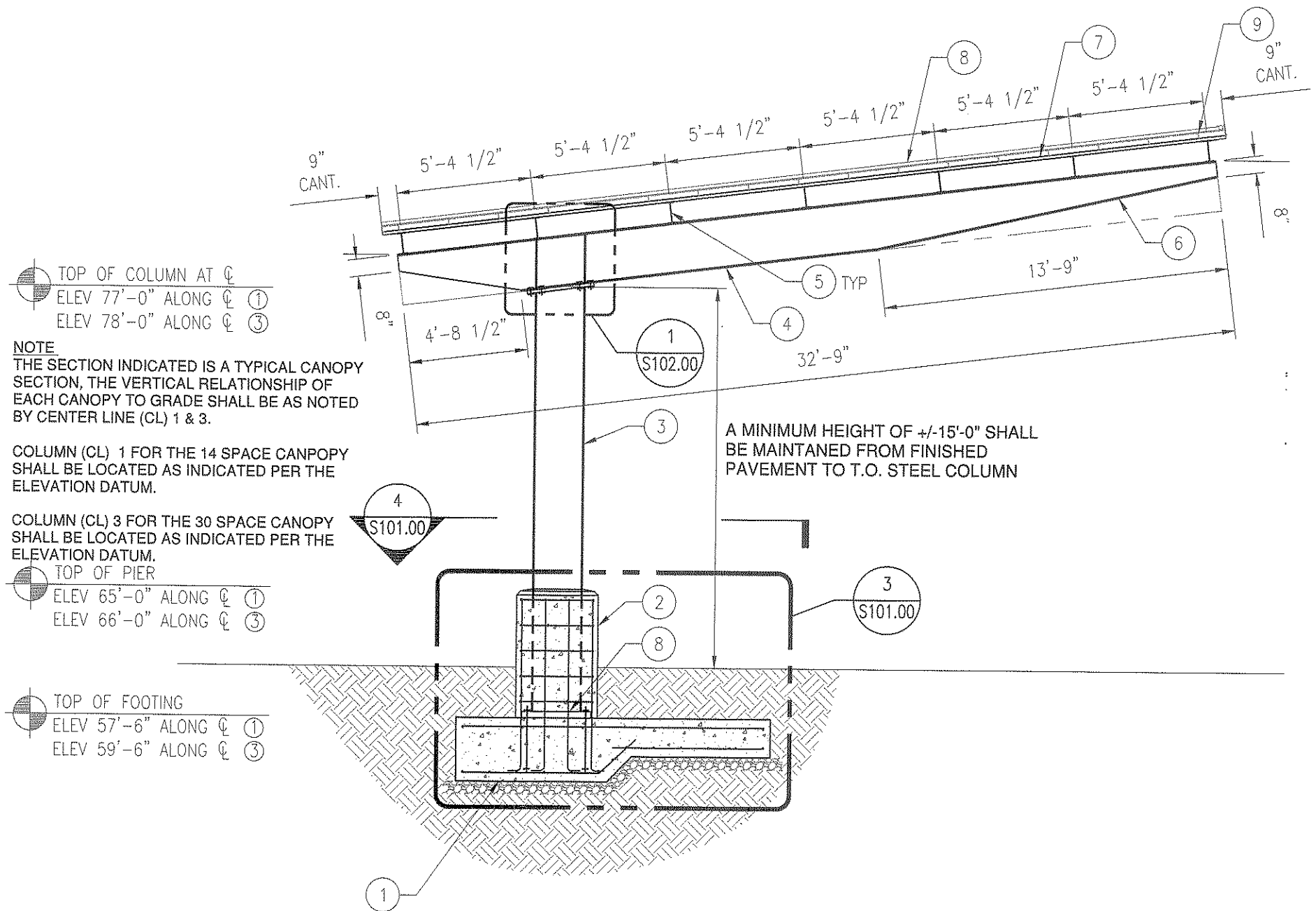
Date:	Description:
03-15-18	Design Development 50%
04-28-18	Final Design Submission
05-21-18	Final Design Submission 2
07-16-18	Final Design Submission 3

Richard Burke
8-31-18



1 FRAMING PLAN
S101.00 SCALE: 1/16" = 1'-0"

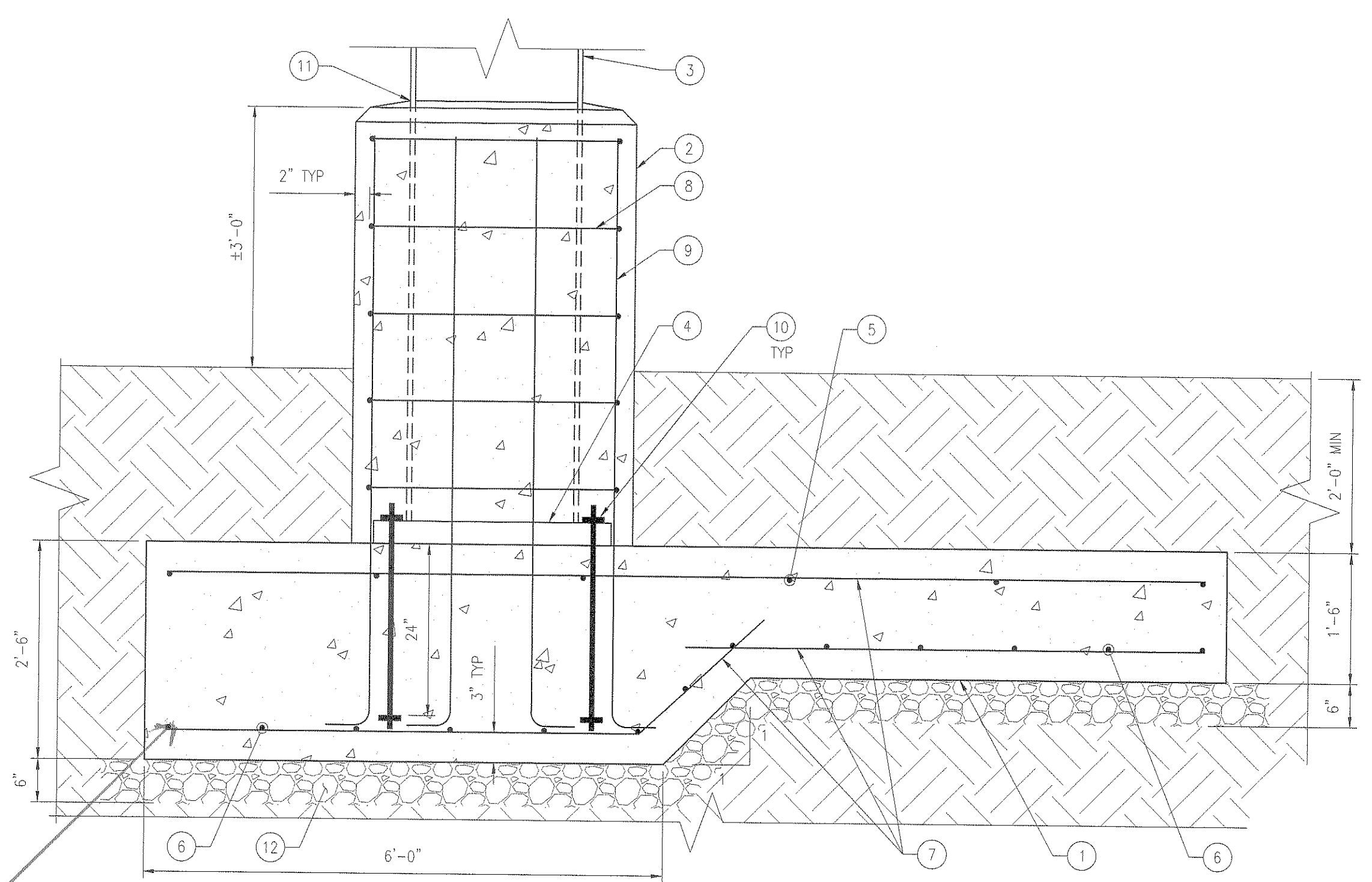
- NOTES:
- NEW W24x76 STEEL COLUMN.
 - NEW W24x68 STEEL GIRDER.
 - NEW W10x12 STEEL PURLINS @ 5'-4" (PLAN DIMENSION) O.C. SEE DETAIL 3/S102.00 FOR CONNECTION TO GIRDER.
 - NEW CANTILEVERED W10x12 STEEL PURLINS @ 5'-4" (PLAN DIMENSION) O.C. SEE DETAIL 3/S102.00 FOR CONNECTION TO GIRDER.



2 SECTION
S101.00 SCALE: 3/16" = 1'-0"

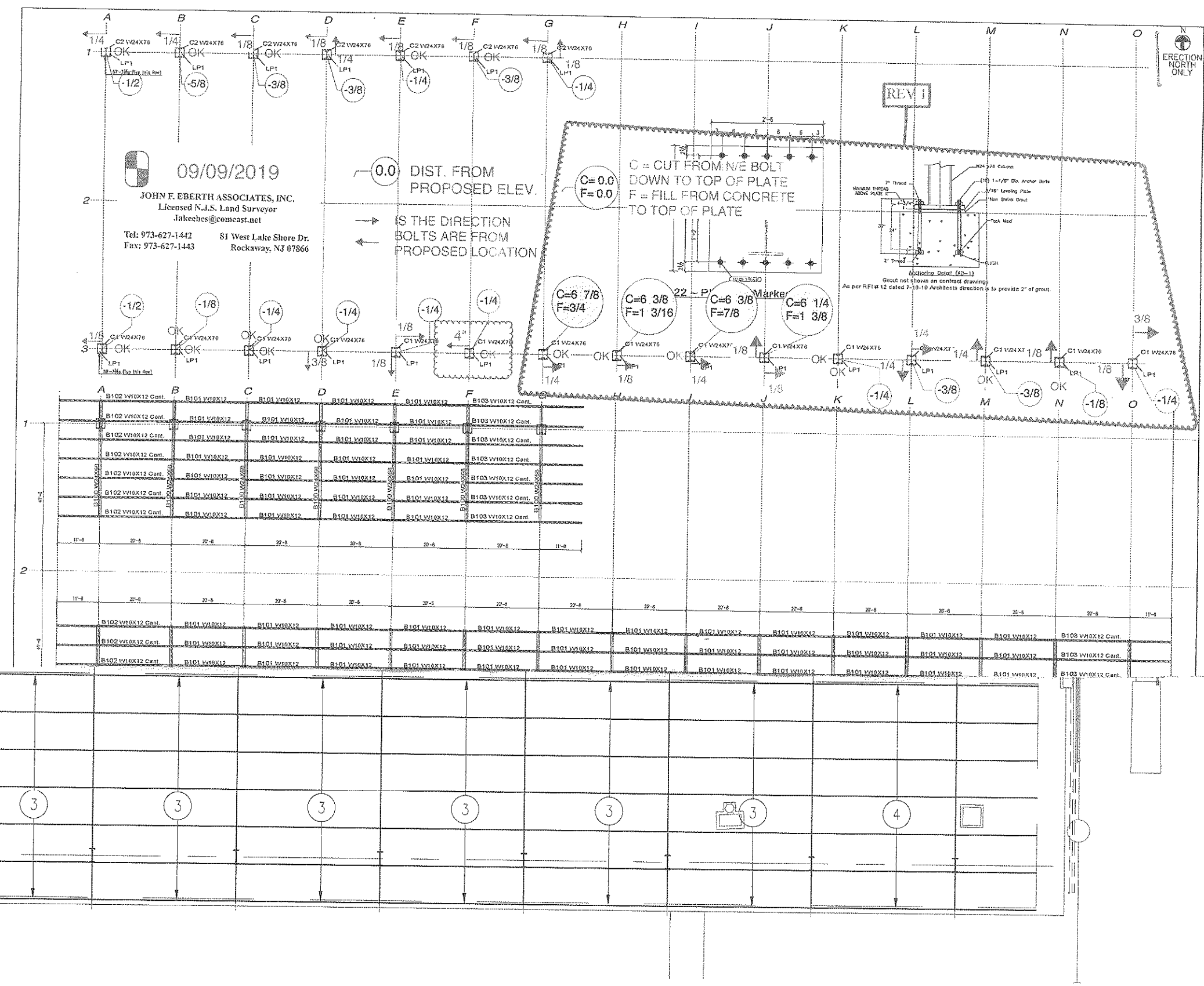
- NOTES:
- NEW CONCRETE FOOTING, SEE 3/S101.00.
 - NEW CONCRETE ENCASUREMENT, SEE 3/S101.00.
 - NEW STEEL COLUMN, SEE 1/S101.00.
 - NEW STEEL GIRDER, SEE 1/S101.00.
 - NEW STEEL PURLINS, SEE 1/S101.00.
 - REWELD FLANGE TO CUT WEB AT 13'-9" CUT.
 - NEW 1.5820 STEEL DECK.
 - NEW COLUMN BASEPLATE, SEE 3/S101.00.
 - NEW LIGHT GAGE "2" CHANNEL, SEE A501.00. CONNECTION TO STEEL DECK PER A501.00.
 - NEW METAL ROOF, SEE A501.00. CONNECTION TO "2" CHANNELS PER A501.00.
 - MAX WEIGHT OF FUTURE SOLAR PV ARRAY = 5 PSF.

AS PER RPT #15
- PROVIDE UP TO 1" CHAMFER AT CORNER
- USE LEVING PLATES AS MEANS AND
METHODS OPTION IS UP TO CONTRACTOR
- PROVIDE BOLTS HEADED AND CE 3/8"
THREADED WITH A NUT WELDED AT THE
APPROPRIATE BEARING BOLT WELD
PBE IN UNDER SIDE OF NUT ONLY.



3 SECTION
S101.00 SCALE: 3/4" = 1'-0"

- NOTES:
- NEW 5,000 PSI CONCRETE FOOTING.
 - NEW 5,000 PSI CONCRETE ENCASUREMENT.
 - NEW STEEL COLUMN, SEE 1/S101.00.
 - NEW 3-1/8" COLUMN BASEPLATE.
 - #4 REBAR @ 28.6" O.C. MAX.
 - #6 REBAR @ 13" O.C. MAX.
 - #7 REBAR @ 16.8" O.C. MAX, TOP AND BOTTOM.
 - #3 STIRRUPS @ 12" O.C. MAX.
 - #5 VERT REBAR @ 12" O.C. MAX.
 - 1-1/8" CAST-IN HEADED END BOLT ANCHOR. 24" MIN EMBEDMENT TO BEARING SURFACE. SEE 4/S101.00.
 - SLOPE TOP OF ENCASUREMENT AWAY FROM COLUMN TO PROVIDE DRAINAGE. PROVIDE FLEXIBLE WATER PROOF SEALANT ALL AROUND COLUMN.
 - PROVIDE 6" THICK BED OF 3/4" CRUSHED STONE BENEATH FOOTING.

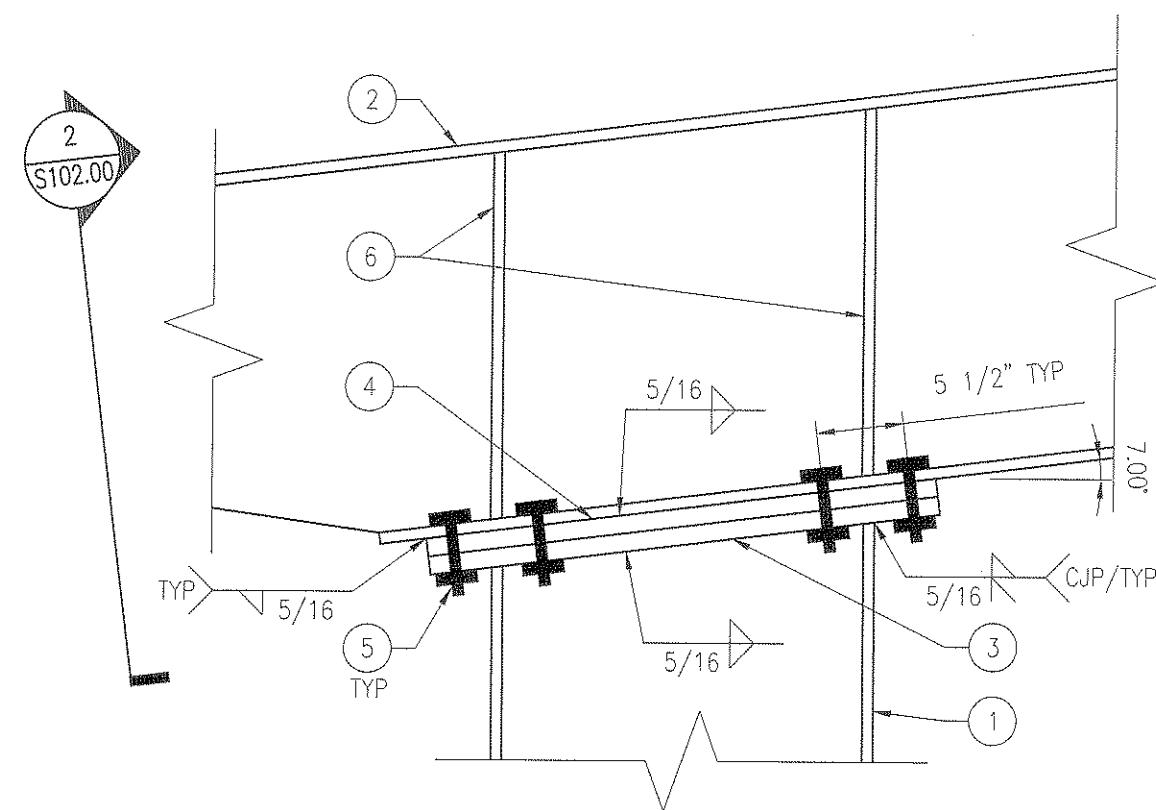


4 SECTION
S101.00 SCALE: 1/2" = 1'-0"

- NOTES:
- NEW CONCRETE FOOTING, SEE 3/S101.00.
 - NEW CONCRETE ENCASUREMENT, SEE 3/S101.00.
 - NEW STEEL COLUMN, SEE 1/S101.00.
 - STIRRUP REINFORCEMENT, SEE 3/S101.00.
 - VERT REINFORCEMENT, SEE 3/S101.00.
 - NEW COLUMN BASEPLATE, SEE 3/S101.00.
 - CAST-IN HEADED END BOLT ANCHOR, SEE 3/S101.00.
 - PROVIDE 1" CHAMFER AT ALL CORNERS OF ENCASUREMENT.

AS PER RPT #15
BASE PLATE AND VERTICAL
REINFORCEMENT MAY TOUCH.
REINFORCEMENT MUST BE
WEAPED AND BOLT AROUND
THE COLUMN. IT IS SUGGESTED
THE LOWEST STIRRUP BE
INCHES ABOVE THE BASE PLATE.

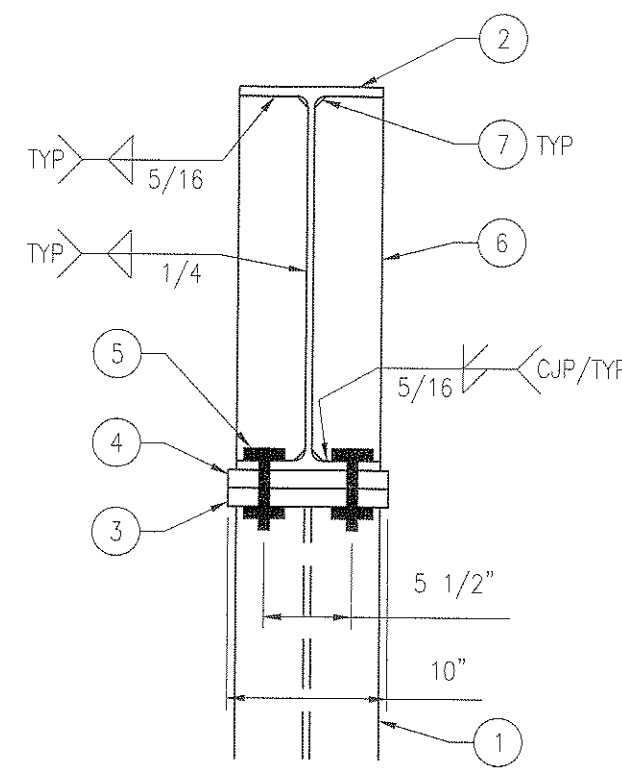
AS BUILT
Date: *8/31/20*
Signature: *[Signature]*
Attec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6284



1 DETAIL
S102.00 SCALE: 1" = 1'-0"

NOTES:

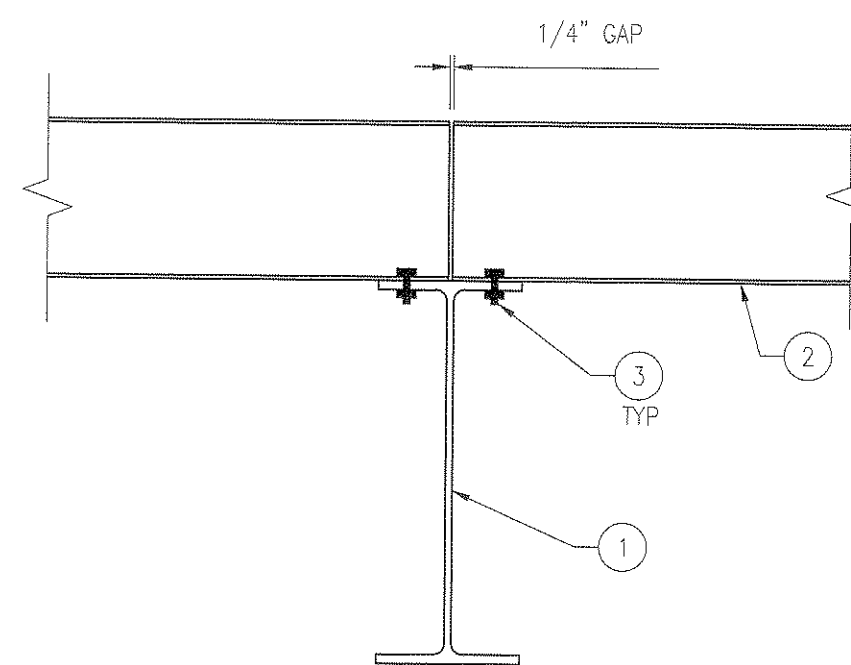
- 1 NEW STEEL COLUMN, SEE 1/S101.00.
- 2 NEW STEEL GIRDER, SEE 1/S101.00.
- 3 2'-8" x 10" x 1-1/8" THICK A572 GR. 50 END PLATE WELDED TO TOP OF COLUMN, SEE 2/S102.00.
- 4 2'-8" x 10" x 1-1/8" THICK A572 GR. 50 PLATE WELDED TO UNDERSIDE OF GIRDER, SEE 2/S102.00.
- 5 1-1/4" DIA A325 BOLTS, HDG FINISH.
- 6 5/8" THICK A572 GR. 50 STIFFENER PLATE.



2 SECTION
S102.00 SCALE: 1" = 1'-0"

NOTES:

- 1 NEW STEEL COLUMN, SEE 1/S101.00.
- 2 NEW STEEL GIRDER, SEE 1/S101.00.
- 3 END PLATE WELDED TO TOP OF COLUMN, SEE 1/S102.00.
- 4 PLATE WELDED TO UNDERSIDE OF GIRDER, SEE 1/S102.00.
- 5 1-1/4" DIA A325 BOLTS, HDG FINISH.
- 6 STIFFENER PLATE, SEE 1/S102.00.
- 7 PROVIDE CLIP AS NECESSARY.

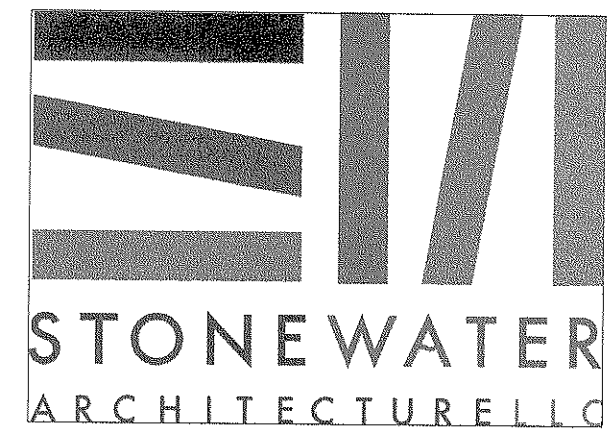


3 SECTION
S102.00 SCALE: 1" = 1'-0"

NOTES:

- 1 NEW STEEL GIRDER, SEE 1/S101.00.
- 2 NEW STEEL PURLIN, SEE 1/S101.00.
- 3 1/2" DIA A325 BOLTS, HDG FINISH. (4) BOLTS TOTAL.

AS BUILT
Date: 8-31-18
Signature: [Signature]
Aitec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 909-6204



P.O. Box 208
Colonia, New Jersey 07067
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Michael @ StonewaterArchitecture.com
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Consultants

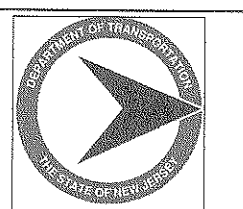
Structural & MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ 08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701

Client



New Jersey Department of the Treasury
Division of Property Management and
Construction, DPMC
20 West State Street, 3rd Floor
Trenton, NJ 08625

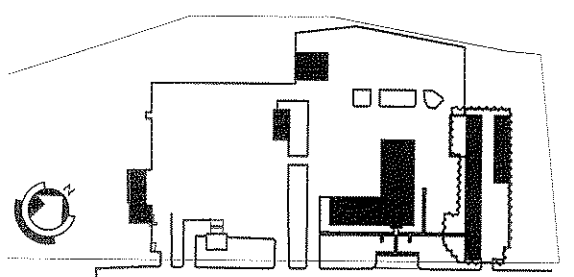


Department of Transportation
1035 Parkway Avenue, P.O. Box 600
Trenton, NJ 08625

Project:

Carport Installation for the:
NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

Key Plan



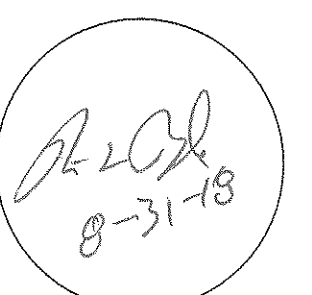
Revisions

Date:	Description:	No.

Issued Documents

Date:	Description:
03-15-18	Design Development 50%
04-28-18	Final Design Submission
05-21-18	Final Design Submission 2
07-16-18	Final Design Submission 3

Seal & Signature
Richard Burke, P.E.
Professional Engineer
NJ Lic. No. 42830



Drawing Title
Sections and Details

Sheet: Drawing Number:
S102.00

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ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	SURFACE OR RECESSED LIGHT FIXTURE, EMERG. CIRCUIT OR BATTERY BACK-UP.
	POLE MOUNTED LIGHT FIXTURE
	FLOOD LIGHT, WIRE TO LOCAL CIRCUIT AHEAD OF SWITCHING U.O.N.
	REMOTE TEST SWITCH WITH LED MOUNTED IN SINGLE GANG STAINLESS STEEL FACE PLATE ON CEILING(U.O.N.).
	LIGHT FIXTURE, A=LIGHTING FIXTURE TYPE, B=FOOTCANDLES AND X=CIRCUIT NUMBER
	SINGLE POLE 20A, TOGGLE TYPE SWITCH MOUNTED 4'-0" AFF TO TOP, SUBLETTER "O" DENOTES FIXTURE CONTROLLED, U.O.N. (LOW VOLTAGE WHERE APPLICABLE).
	SINGLE RECEPTACLE 125V, 20A, 2P, 3W, 5-20R U.O.N. (SPECIALTY TYPE AS NOTED-A,B,C SEE SPECIALTY SCHEDULE) MOUNTED AT SAME HEIGHT AS DUPLEX, U.O.N. ()
	DUPLEX CONVENIENCE RECEPTACLE 20A, 125V, MOUNTED 1'-4" A.F.F. TO CENTER, U.O.N. 5-CIRCUIT NUMBER. CH=ABOVE COUNTER HEIGHT AT 44" MAX TO ABOVE COUNTERS WHICH ARE 20"-25" DEEP, U.O.N. CP=CHILD PROOF.
	GROUND FAULT RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE (QUAD)
	COMBINATION TELE./COMM OUTLET W/ 1' CDT. RUN TO ABOVE ACCESSIBLE CEILING SPACE 1'-4" AFF TO CENTER LINE OF DEVICE. PROVIDE PULL STRING AND END BUSHINGS (NUMBER REPRESENTS # OF KEYSTONES, IF NOT TYPICAL). (X/X = NUMBER OF VOICE DROPS/NUMBER OF DATA DROPS) CH=ABOVE COUNTER HEIGHT. COORDINATE WITH ARCHITECT FOR FINAL FURNITURE COORDINATION.
	WIRELESS APPLICATION PROTOCOL CONNECTION - CAT 6E CONNECTION BY E.C. UNLESS OTHERWISE NOTED.
	JUNCTION BOX, CEILING "C" OR WALL MOUNTED, ELECTRICAL CONTRACTOR TO MAKE ALL REQUIRED CONNECTIONS TO DESIGNATED EQUIPMENT.
	ITEMS TO BE DEMOLISHED AND REMOVED. (THIS INCLUDES ALL EQUIPMENT IN SPACE COVERED WHETHER ITEMIZED OR NOT).
	PANEL BOARD (LIGHTING OR RECEPTACLE) SURFACE MOUNTED
	PANEL BOARD (LIGHTING OR RECEPTACLE) RECESSED
	GROUND ROD OR AS NOTED ON DRAWING OR DETAIL
	DOOR STATUS SWITCH
	CARD READER-PROXIMITY SENSORS - 3/4" CONDUIT WITH PULL-WIRE FROM ACCESSIBLE CEILING TO DOOR BUCK.
	DOOR CONTACT
	MAGNETIC DOOR LOCK
	WIFI TRANSMITTER
	REQUEST TO EXIT PUSHBUTTON
	CAMERA WALL MTD., CEILING MTD. - 4"X4" J-BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE WITH PULL-WIRE.
	MOTOR
	EXPOSED CONDUIT OR CABLE
	CONCEALED CONDUIT OR CABLE
	NON-FUSIBLE DISCONNECT SWITCH
	ANTENNA
	SURGE PROTECTIVE DEVICE

(DEVICE AND EQUIPMENT MOUNTING HEIGHTS ARE AS LISTED ON DRAWING AND/OR DESCRIBED IN SPECIFICATIONS UNLESS ITEMIZED BY ARCHITECTURAL DOCUMENTS.) (NOT ALL SYMBOLS ARE REPRESENTED ON DRAWINGS)

ELECTRICAL GENERAL NOTES

- ELECTRICAL DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONAL REQUIREMENTS, COORDINATE WITH ARCHITECTURAL DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL TRACE AFFECTED POWER PANEL BRANCH CIRCUITS IN CONTRACT AREAS TO DETERMINE WIRING CONFIGURATION OF AFFECTED AND SURROUNDING AREAS. ELECTRICAL CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS TO AID IN REWIRING CONTRACT AREAS IN COMPLIANCE WITH ENGINEERING DOCUMENTS, LOCAL CODES, AND ORDINANCES. PROVIDE FINDINGS IN REPORT FORM WITH MARKED UP DRAWINGS, TO THE ENGINEER AS SOON AS COMPLETED. NO REWIRING SHALL BEGIN UNTIL THIS STEP IS COMPLETED.
- THE ELECTRICAL CONTRACTOR SHALL MEASURE THE STEADY STATE LOAD CURRENT AT EACH AFFECTED PANELBOARD FEEDER AND DOCUMENT PRE-CONSTRUCTION VALUES FOR EXISTING LIGHTING, POWER AND MECHANICAL LOADS TO UNDERSTAND AVAILABILITY OF ADDITIONAL PANELBOARD LOADING WITHIN THE CONSTRAINTS OF THE STATE BUILDING AND ELECTRICAL CODES. PROVIDE FINDINGS IN REPORT FORM WITH MARKED UP DRAWINGS, TO THE ENGINEER AS SOON AS COMPLETED. NO REWIRING SHALL BEGIN UNTIL THIS STEP IS COMPLETED.
- AT COMPLETION OF ALL BRANCH WIRING DESCRIBED ON CONTRACT DOCUMENTS, ELECTRICAL CONTRACTOR SHALL COMPILE A LIST OF EXISTING AND NEW CIRCUITS TO PROVIDE A FULL PANEL SCHEDULE DIRECTORY WITH DEVICE NAME (LIGHTING, RECEPTACLES, EQUIPMENT, ETC.) AND ROOM NUMBERS BEING SERVED. LABEL ALL CIRCUIT BREAKERS NOT BEING USED AS SPARE AND REMOVE CONDUCTORS FROM PANELBOARD AND CONDUITS.
- CONDUCTOR SIZES(PHASE AND BOND) SHALL BE INCREASED DUE TO DERATING AND VOLTAGE DROP REQUIREMENTS AS NECESSARY. USE A MINIMUM #10 AWG FOR 20 AMPERE CIRCUITS AS FOLLOWS; 120V. - OVER 120', 208V. - OVER 210', 277V. - OVER 279', 480V. - OVER 484'(BASED ON LOAD AT MIDPOINT OF BRANCH CIRCUIT RUN @ 60% OF RATED LOAD). USE #8 FOR 20A. CIRCUITS @ 277V. FROM 211' TO 334', AND 20A CKTS @ 120V. FROM 191' TO 301', (FOR #8 PROVIDE AND INSTALL SPLICE/TAP J-BOX BEFORE CONNECTION TO LOAD AND TRANSFER TO #12AWG FOR CONNECTION TO DEVICE TERMINALS).
- ALL PANELBOARDS AND ASSOCIATED ELECTRICAL SYSTEMS SHALL BE FULLY RATED (NOT SERIES) U.O.N. PANELBOARD LOCKS SHALL BE KEYS IN ACCORDANCE TO OWNER REQUIREMENTS.
- RELOCATE EXISTING JUNCTION BOXES, PULL/SPLICE BOXES, ETC. WHICH REQUIRE ACCESS THAT WILL BE BLOCKED BY NEW CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH FIELD CONDITIONS AND OTHER TRADES FOR NEW OR EXISTING ELECTRICAL ITEMS REQUIRING ACCESS LOCATED OVER G.W.B. OR OTHER INACCESSIBLE CEILINGS. PROVIDE ACCESS PANELS TO BE LOCATED IN COORDINATION WITH ARCHITECT AND INSTALLED BY G.C.
- DEVICE AND EQUIPMENT MOUNTING HEIGHTS ARE AS LISTED ON DRAWING AND/OR DESCRIBED IN SPECIFICATIONS UNLESS ITEMIZED BY ARCHITECTURAL DOCUMENTS.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO SUBMIT COORDINATION DRAWINGS AS EARLY AS POSSIBLE IN THE CONSTRUCTION PERIOD.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, STORAGE AND REPLACEMENT OF EXISTING CEILING TILES FOR EXTENSION OF UTILITIES IN "OUT OF SCOPE" AREAS REQUIRED TO FEED SCOPE AREAS.
- APPLY U.L. APPROVED FIRESTOPPING("3M" FIRE STOP SEALANT 2000 AND/OR "3M" FIRE BARRIER CP25 WB) TO ALL PENETRATIONS OF FIRE RATED FLOORS, WALL AND CEILING ASSEMBLIES. RATING MUST RE-ESTABLISH THE ORIGINAL FIRE RESISTANCES.
- PER NEC 200.6(D) WHERE GROUNDED CONDUCTORS OF DIFFERENT SYSTEMS ARE INSTALLED IN SAME RACEWAY, EACH CONDUCTOR SHALL BE IDENTIFIED PER SYSTEM AND SIGNAGE SHALL BE POSTED VIA "MCMARTA" LABEL AT PANELBOARD.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, ELECTRICAL, PLUMBING, FIRE PROTECTION, ARCHITECTURAL INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION. (THE MORE STRINGENT REQUIREMENT SHALL PREVAIL).
- EQUIPMENT MANUFACTURERS USED HEREIN ARE TO BE BASIS OF DESIGN, ANY APPROVED ALTERNATES SHALL MEET THE SPECIFICATIONS.
- ELECTRONIC FILES OF THE ELECTRICAL DRAWINGS ARE AVAILABLE TO THE CONTRACTOR VIA COMPACT DISK. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR ALONG WITH A LUMP SUM FEE OF ONE HUNDRED AND FIFTY (\$150) DOLLARS PER TRADE PRIOR TO RELEASE OF THE ELECTRONIC FILES. THIS FEE IS FOR TIME AND MATERIAL COSTS INCURRED IN PREPARING AND TRANSMITTING THE REQUESTED DATA.

ELECTRICAL SPECIFICATIONS (SEE BOOK SPEC FOR ADDITIONAL INFORMATION)

0 BASIC ELECTRICAL REQUIREMENTS

0.01 GENERAL:

- ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE NEC, NFPA, IBC, UCC, AND LOCAL CODES. ALL WORK TO BE INSPECTED FOR CONFORMITY OF THE UNIFORM CONSTRUCTION CODE OF THE STATE OF NEW JERSEY.
- OBTAIN ALL PERMITS AND APPROVAL FROM AUTHORITIES HAVING JURISDICTION AND PAYING ALL FEES REQUIRED.
- SUBMIT SIX(6) SETS OF SHOP DRAWINGS FOR APPROVAL OF THE FOLLOWING:
 - WIRE
 - CONDUIT
 - LIGHT FIXTURES
- PROVIDE TEMPORARY POWER AS REQUIRED FOR THE PROJECT.
- ALL WORK SHALL BE DONE UNDER NORMAL WORKING HOURS, UNLESS OTHERWISE NOTED.

0.02 GROUNDING:

- GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM GROUNDING NEUTRAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTOR IN ENCLOSED IN CONDUIT, GROUND CLAMPS SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE ACCORDANCE WITH "NEC" TABLE 250-122
- EQUIPMENT GROUND CONDUCTORS SHALL BE PROVIDED FOR ALL FEEDERS AND BRANCH CIRCUITS. USE GREEN GROUND.

0.03 IDENTIFICATION:

- WIRE AND CABLE COLOR CODING.

- POWER WIRING: CONSISTENT PHASE IDENTIFICATION OF ALL WIRES SHALL BE MAINTAINED AS FOLLOWS:

208/120 VOLT, 3Ø 60 HZ		277/480V 3Ø
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL WIRE	WHITE	GRAY
GROUND WIRE	GREEN	
ISOLATED GROUND WIRE	GREEN WITH YELLOW STRIPE	

(THIS CHART SHALL BE POSTED ON PANELBOARDS AND SIMILAR DISTRIBUTION EQUIPMENT PER NEC 215.12(C)(1)(B))

- CONTROL WIRES: WIRES OF CONTROL CIRCUITS SHALL BE CONSISTENTLY COLOR CODED TO PERMIT EASY IDENTIFICATION OF CONDUCTORS.

0.04 WIRING METHODS

- BRANCH CIRCUIT AND FEEDER WIRING RUN WITHIN THE BUILDING SHALL BE INSTALLED IN ELECTRO-METALLIC TUBING WITH COMPRESSION FITTINGS AND RUN CONCEALED WHERE POSSIBLE, BUT EXPOSED ON EXISTING SURFACES WHERE CONDUITS CANNOT BE CONCEALED. ARMORED CABLE(TYPE MC OR HCF-90) SHALL BE PERMITTED IN CONCEALED (FROM VIEW) AREAS ONLY AND TO THE EXTENT PERMITTED BY CODE. U.O.N. WHERE CONDUCTORS ARE RUN IN A PLENUM, ALL CONSTRUCTION SHALL BE PLENUM RATED. USE EXPANSION FITTINGS PER CODE AND MANUFACTURER.
- WIRING FOR CONTROLS, COMMUNICATIONS AND OTHER SYSTEMS SHALL BE IN RACEWAY SPECIFIED FOR BRANCH CIRCUITS UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE SEALS FOR RACEWAYS PASSING THROUGH FLOORS, ROOFS AND WALLS.
- CONDUCTORS SHALL BE 600V INSULATION, COPPER, TYPE THHN OR THWN, U.O.N.
- LIQUID TIGHT FLEXIBLE METAL CONDUIT IN LENGTHS OF 3' OR LESS WITH APPROVED TYPE FITTINGS SHALL BE USED FOR CONNECTIONS TO VIBRATING EQUIPMENT, MOTORS, AND OTHER OUTLETS WHERE WIRING WILL BE EXPOSED TO WEATHER, MOISTURE OR VIBRATIONS.
- INSTALL RACEWAYS FROM BOX TO BOX OR TERMINATIONS AS SHOWN ON THE DRAWINGS OR AS REQUIRED TO EFFECT CIRCUITING DESCRIBED WITH CIRCUIT NUMBERS ADJACENT TO EQUIPMENT. GROUPING HOME RUNS OR COMBINING WIRES IN COMMON RACEWAYS WILL BE ALLOWED WITH A MAXIMUM OF THREE SINGLE POLE BRANCH CIRCUITS IN A RACEWAY. INCREASE WIRE SIZES AND RACEWAYS WHERE REQUIRED TO AVOID LOSS OF AMPACITY AS REQUIRED BY NATIONAL ELECTRIC CODE.
- FLEXIBLE METAL CONDUIT WITH APPROVED TYPE FITTING MAY BE USED IN LIMITED LENGTHS FOR CONNECTIONS TO RECESSED FIXTURES WHERE IT IS NECESSARY TO PROVIDE FLEXIBLE CONNECTIONS. IT MAY ALSO BE USED WHERE STRUCTURAL MEMBER PRECLUDE THE USE OF ELECTRICAL METALLIC TUBING OR CONDUITS.
- INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR(4) 90 DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT STAPLE WIRES. REAM CONDUIT ENDS BEFORE INSTALLATION AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT CLEAN. TERMINALS ON SWITCHES AND RECEPTACLES SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR RECEPTACLE. THE DISCONNECTIONS OR REMOVAL OF A DEVICE FROM A BOX SHALL NOT INTERFERE WITH OR INTERRUPT THE CONDUCTOR CONTINUITY.
- CONDUCTORS SHALL BE CONTINUOUS FROM ORIGIN TO PANEL OR EQUIPMENT WITH SPLICES. WHERE TAP SPLICES ARE NECESSARY AND APPROVED, THEY SHALL BE MADE OF SUITABLE CONNECTORS IN JUNCTION BOXES.
- ALL WIRE AND CABLE AMPACITIES INDICATED ON DRAWINGS ARE BASED ON 75 DEGREES C. TEMPERATURE RATING. ALL LUGS, BREAKERS, SWITCHES, AND OTHER TERMINATIONS SHALL HAVE

75 DEGREES C. RATINGS AS A MINIMUM.

- BALANCE ALL LOADS BETWEEN PHASES.

- SEPARATE NEUTRALS SHALL BE RUN FOR ALL CIRCUITS UTILIZING SWITCH MADE POWER SUPPLIES(EG. COMPUTER, FLUORESCENT LIGHTING, ETC.).

0.05 WIRING DEVICES - PLATES

- DEVICES SHALL BE "SPEC GRADE" MANUFACTURED BY LEVITON OR EQUAL, U.O.N. ALL DEVICE COVER PLATES SHALL BE STAINLESS STEEL U.O.N. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5-20R, BACK AND SIDE WIRED U.O.N. OTHER DEVICES SHALL BE AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE EQUIPMENT ITEM INTENDED TO BE SERVED. WHERE SWITCHES ARE GROUPED, PROVIDE GANGED PLATES.

0.06 LIGHTING FIXTURES AND LAMPS

- LIGHTING FIXTURES SHALL BE FURNISHED AND COMPLETE WITH NECESSARY MOUNTING OR HANGING HARDWARE AND WITH PLASTER FRAMES WHERE REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPE.

- COORDINATE LED DRIVERS WITH CONTROLS FOR ADDITIONAL WIRING (TYPICAL).

0.07 EQUIPMENT SUPPORTS

- THE CONTRACTOR SHALL PROVIDE ALL STRUCTURAL SUPPORTS AND MOUNTING DEVICES FOR THE PROPER ATTACHMENTS OF EQUIPMENT SUPPLIED BY THIS TRADE. THIS SHALL ALSO INCLUDE STARTERS, DISCONNECTS, CONTROLLERS, ETC. FURNISHED BY THE MECHANICAL TRADE.
- CONDUIT SUPPORTS SHALL BE PLACED AT A MAXIMUM DISTANCE OF TEN (10) FEET APART, OR AS REQUIRED BY LATEST ADOPTED EDITION OF THE NEC FOR THE INSTALLED RACEWAY.

0.8 SPECIAL REQUIREMENTS

- REMOVAL, ALTERATIONS, RELOCATIONS AND CONNECTIONS TO EXISTING SYSTEMS:
 - CERTAIN REMOVALS AND RELOCATIONS OF EXISTING WORK WILL BE NECESSARY TO THE SATISFACTORY PERFORMANCE OF THE GENERAL WORK. ALL CHANGES CANNOT BE DETAILED ON THE DRAWINGS, BUT SHALL BE TAKEN INTO CONSIDERATION IN MAKING UP THE WORK PROPOSAL. THE SCOPE OF REMOVALS SHALL BE BASED ON ACTUAL FIELD INSPECTIONS.
 - THE ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING CIRCUITS AFFECTED BY THIS WORK.
 - IN THE EVENT ANY WIRING OR EQUIPMENT TO BE REMOVED IS IN ACTIVE USE AS DETERMINED BY THE OWNER, THIS CONTRACTOR SHALL PROVIDE TEMPORARY WIRING AS MAY BE REQUIRED TO MAINTAIN SUCH USE UNTIL THE PERMANENT RELOCATED WIRING IS INSTALLED.
 - ALL WORK REQUIRING AN OUTAGE OR AN INTERRUPTION OF SERVICE (POWER, TELEPHONE, ETC.) SHALL BE DONE ONLY AT SUCH TIME AS PERMITTED BY THE OWNER, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE OWNER FOR SUCH SHUTDOWNS.

0.9 CLOSE OUT

- ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. AFTER WIRES ARE IN PLACE AND CONNECTED TO DEVICES AND EQUIPMENT. THE SYSTEM SHALL BE TESTED FOR SHORTS AND GROUNDS. ALL HOT AND NEUTRAL CONDUCTORS, IF SHORTED OR GROUNDED, SHALL BE REMOVED AND REPLACED. ALL METERS, INSTRUMENTS, CABLE CONNECTIONS, EQUIPMENT OR APPARATUS NECESSARY FOR MAKING ALL TESTS, SHALL BE FURNISHED BY THIS CONTRACTOR AT HIS OWN EXPENSE.
- TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW.
- FURNISH WRITTEN ONE YEAR GUARANTEE FOR ALL ELECTRICAL WORK AND EQUIPMENT.
- CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AT COMPLETION OF PROJECT.
- CONTRACTOR SHALL SUBMIT (3) THREE COPIES OF OPERATION AND MAINTENANCE MANUALS.

0.10 SITE WORK

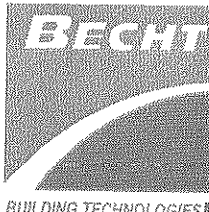
- EXCAVATE TRENCHES TO UNIFORM WIDTHS TO PROVIDE 12" CLEARANCE ON EACH SIDE OF PIPE OR CONDUIT. EXCAVATE TRENCH WALLS VERTICALLY FROM TRENCH BOTTOM TO 12 INCHES(300MM) HIGHER THAN TOP OF PIPE OR CONDUIT UNLESS OTHERWISE INDICATED. REMOVE PROJECTING STONES AND SHARP OBJECTS ALONG TRENCH SUBGRADE. PLACE BACKFILL ON SUBGRADES FREE OF CONTINUOUS SUPPORT FOR JOINTS, AND BARRELS OF FITTINGS, AND BODIES OF CONDUITS.
- TRENCHES UNDER ROADWAYS: PROVIDE COMPLETELY ENCASED CONDUIT IN A MINIMUM OF 3 INCHES(75MM) OF CONCRETE BEFORE BACKFILLING OR PLACING ROADWAY SUBBASE COURSE.
- WARNING TAPE: INSTALL WARNING TAPE DIRECTLY ABOVE UTILITIES, 12 INCHES(300MM) BELOW FINISHED GRADE, EXCEPT 6 INCHES(150MM) BELOW SUBGRADE UNDER PAVEMENTS AND SLABS. SEE DETAILS WHERE APPLICABLE.
- INITIAL BACKFILL: PLACE AND COMPACT INITIAL BACKFILL OF SATISFACTORY SOIL, FREE OF PARTICLES LARGER THAN 1 INCH(25MM) IN ANY DIMENSION, TO A HEIGHT OF 12 INCHES(300MM) OVER THE PIPE OR CONDUIT.
- FINAL BACKFILL: PLACE AND COMPACT FINAL BACKFILL OF SATISFACTORY SOIL TO FINAL SUBGRADE ELEVATION.

0.11 COMMISSIONING

- CONTRACTOR SHALL PROVIDE FULL SYSTEM COMMISSIONING WITH MANUFACTURER'S START-UP ALLY

ELECTRICAL DRAWING LIST

DWG No.	DESCRIPTION
E001.00	ELECTRICAL SYMBOLS AND SPECIFICATION
E002.00	ELECTRICAL ABVS, RISERS, SCHEDS, AND DETAILS
E003.00	ELECTRICAL FIXTURE SPECIFICATION AND DETAILS
ESU001	ELECTRICAL SITE PLAN
E101.00	ELECTRICAL CARPORT SITE PLAN AND DETAILS
E102.00	ELECTRICAL FLOOR PLAN DETAILS



Becht Engineering BT, Inc.

4195 Princeton Ave. (Rte 86 South)
Clark Township, NJ 07066
Phone: (908) 715-6600
Fax: (908) 715-6880
Website: www.bechtengineering.com

24 Clinton St.
Clark County, NJ 07066
Phone: (908) 715-7600
Fax: (908) 715-7600
Website: www.bechtengineering.com

THIS DRAWING ILLUSTRATES THE WORK TO BE DONE. THE ENGINEER IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK, OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSED OR IMPLIED CHANGES THE CONDITION. CONTRACTOR SHALL DETERMINE ALL CONDITIONS AT THE SITE AND SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING.

Eric C. Collins
Professional Engineer
N.J. License No. 24GED0283500
NJCOA No. 24GA28132000



P.O. Box 208
Colonia, New Jersey 07067
908-380-2496
Michael @ Stonewater
Architecture.com
NJ Lic. No. 21A1077266
NY Lic. No. 032102

Consultants

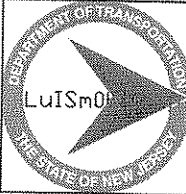
MEP Consultant
Becht Engineering BT, Inc.
410 Richmond Ave.
Point Pleasant Beach, NJ
08742

Site & Civil Engineer
Maser Consulting, PA
331 Newman Springs Road,
Suite 203
Red Bank, NJ 07701

Client



New Jersey Department of
the Treasury
Division of Property
Management and
Construction, DPMC
20 West State Street, 3rd
Floor Trenton, NJ 08625



Department of
Transportation
1035 Parkway Avenue, P.O.
Box 600 Trenton, NJ 08625
Project:

Carport Installation for the:
NJDOT Cherry Hill Maintenance
Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden
County
Project #T0583-00

AS BUILT

Date:

Signature:

Artec Building Systems Corp.
904 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 903-6264

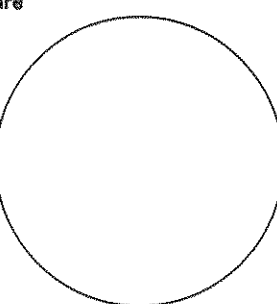
Revisions

Date:	Description:	No.

Issued Documents

Date:	Description:
03-15-18	Design Development 50%
04-30-18	Final Design Submission
05-21-18	Final Design Submission #2
12-04-18	DPMC COMMENT RESPONSE

Seal & Signature
Michael A
Moritz



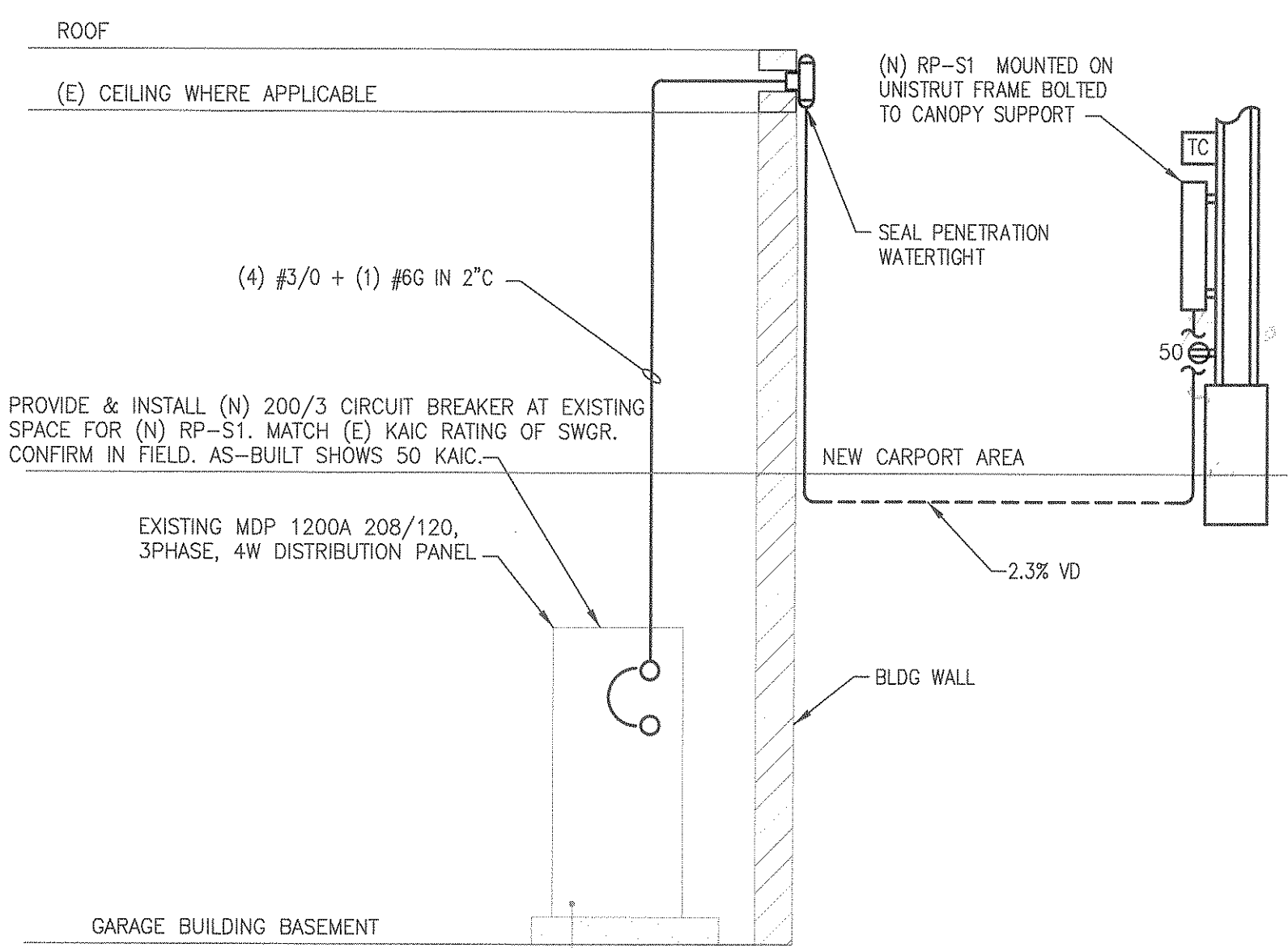
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Sheet:

Drawing Number:

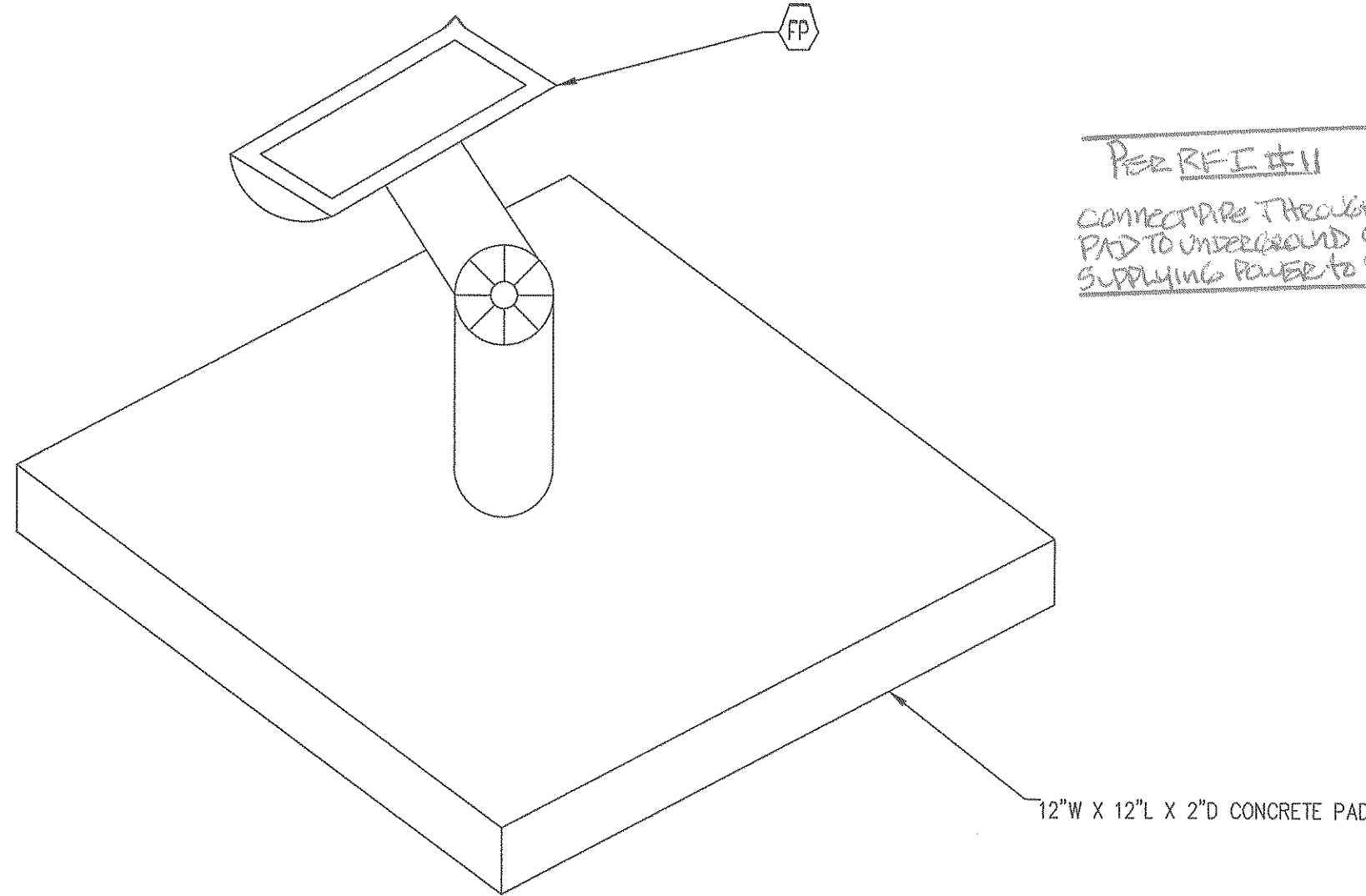
00

E001.00



E002.00 PARTIAL ELECTRIC RISER DIAGRAM
SCALE: NONE

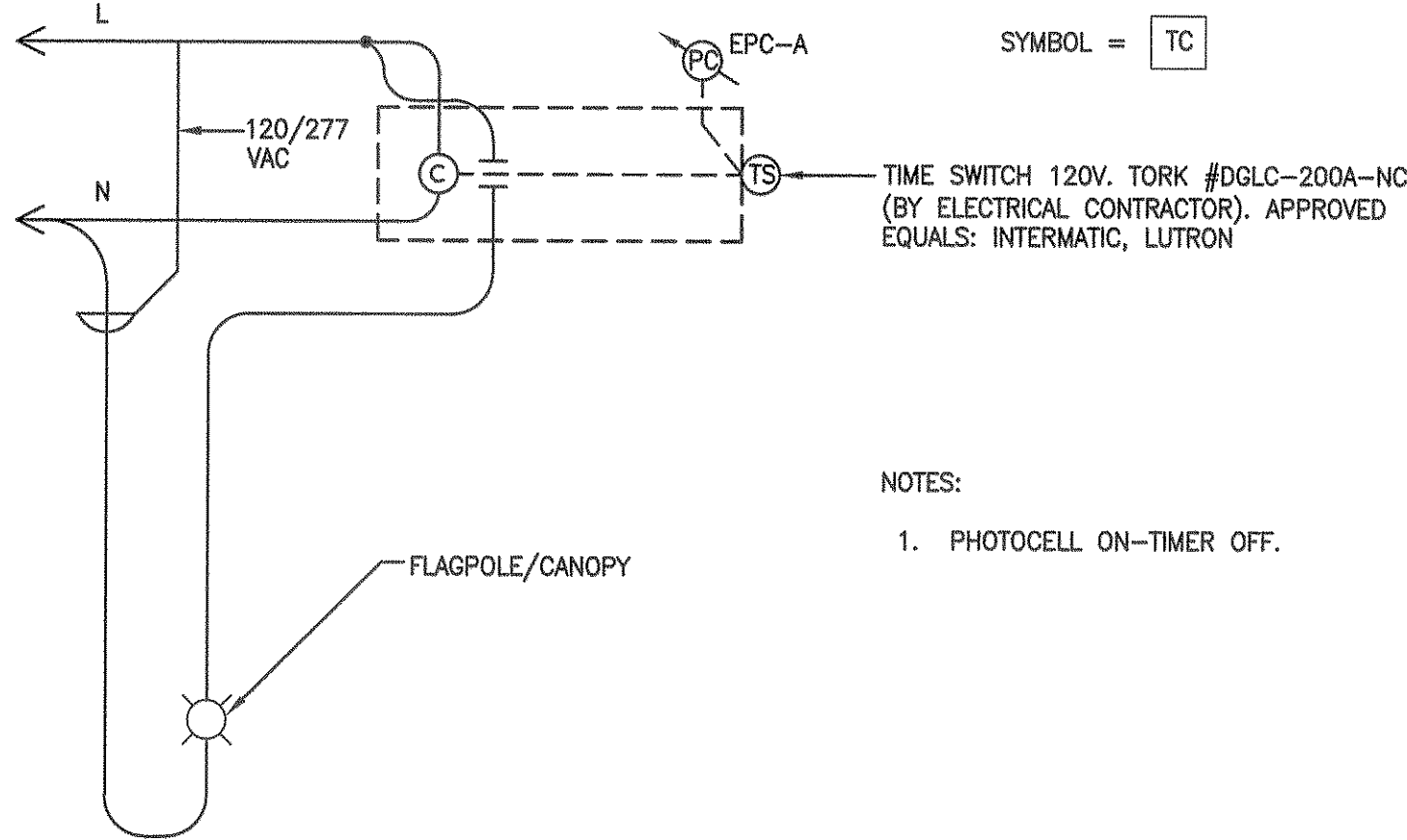
PANEL		RP-S1		SCHEDULE		COMMENTS		Main Circuit Breaker										200A		MAIN CIRCUIT BREAKER													
PANEL LOCATION				CANOPY SUPPORT				225A BUS SIZE										NUMBER OF POLES: PANEL SHORT CIRCUIT RATING				60		KVA									
208/120				VOLTS, 3 PHASE, 4 WIRE																		10		C.B. POLE NO.									
C.B. POLE NO.		C.B. TRIP AMPS		C.B. LOAD VA		LOAD DESCRIPTION		CIR NO		FDR.DATA				PHASE A		PHASE B		PHASE C		FDR.DATA				CIR NO		LOAD DESCRIPTION		C.B. LOAD VA		C.B. TRIP AMPS		C.B. POLE NO.	
										No		WIRE		GND		COND				No		WIRE		GND		COND							
1	20	440		CARPOT LIGHTS	1	2	12	12	3/4"	1,440								2	12	12	3/4"	2		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	3	2	12	12	3/4"	2,000								2	12	12	3/4"	4		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	5	2	12	12	3/4"									2,000		2	12	12	3/4"	5		BLOCK HEATERS	1,000	20	1				
1	20	1,000		BLOCK HEATERS	7	2	12	12	3/4"	2,000									2	12	12	3/4"	8		BLOCK HEATERS	1,000	20	1					
1	20	1,000		BLOCK HEATERS	9	2	12	12	3/4"							2,000			2	12	12	3/4"	10		BLOCK HEATERS	1,000	20	1					
1	20	1,000		BLOCK HEATERS	11	2	12	12	3/4"								2,000		2	12	12	3/4"	12		BLOCK HEATERS	1,000	20	1					
1	20	1,000		BLOCK HEATERS	13	2	12	12	3/4"	2,000								2	12	12	3/4"	14		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	15	2	12	12	3/4"								2,000		2	12	12	3/4"	16		BLOCK HEATERS	1,000	20	1					
1	20	1,000		BLOCK HEATERS	17	2	12	12	3/4"								2,000		2	12	12	3/4"	18		BLOCK HEATERS	1,000	20	1					
1	20	1,000		BLOCK HEATERS	19	2	12	12	3/4"	2000								2	12	12	3/4"	20		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	21	2	12	12	3/4"							2,000		2	12	12	3/4"	22		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	23	2	12	12	3/4"								2,000		2	12	12	3/4"	24		BLOCK HEATERS	1,000	20	1					
1	20	1,000		BLOCK HEATERS	25	2	12	12	3/4"	2000								2	12	12	3/4"	26		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	27	2	12	12	3/4"							2,000		2	12	12	3/4"	28		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	29	2	12	12	3/4"								2,000		2	12	12	3/4"	30		BLOCK HEATERS	1,000	20	1					
1	20	1,000		BLOCK HEATERS	31	2	12	12	3/4"	2000								2	12	12	3/4"	32		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	33	2	12	12	3/4"							2,000		2	12	12	3/4"	34		BLOCK HEATERS	1,000	20	1						
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1	20	1,000		BLOCK HEATERS	37	2	12	12	3/4"	2000								2	12	12	3/4"	38		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	39	2	12	12	3/4"							2,000		2	12	12	3/4"	40		BLOCK HEATERS	1,000	20	1						
1	20	1,000		BLOCK HEATERS	41	2	12	12	3/4"								2,000		2	12	12	3/4"	42		BLOCK HEATERS	1,000	20	1					
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1	20	1,000		BLOCK HEATERS	45	2	12	12	3/4"							1360		2	12	12	3/4"	46		CAMERA POWER SUPPLY	360	20	1						
3	20	888		MOTOR OPERATED GATE	48	4	12	12	3/4"						1088		888	2	12	12	3/4"	49		MAN GATE SECURITY	20	1							
		888			51													2	12	12	3/4"	50		LOCAL RECEPTACLE	1,800	20	1						
1	20			SPARE	53											888						52		SPARE	54	SPARE	20	1					
1	20			SPARE	55									0								56		SPARE	56	SPARE	20	1					
1	20			SPARE	57											0						58		SPARE	58	SPARE	20	1					
1	20			SPARE	59												0					59		SPARE	60	SPARE	20	1					
MOUNTING:		SURFACE		PH-LOAD		16508		16248		14888		VA		PANEL TYPE : NEMA 3R, WITH																			
FED FROM:		MDP		CONNECTED LOAD		48		KVA		132		AMPS		GROUNDING TERMINAL 100% NEUTRAL																			
* = COORDINATE WITH EXISTING UPSTREAM FEEDER CIRCUIT BREAKER RATING.																																	



NOTES:

1. PROVIDE AND INSTALL NEW 20/1 CIRCUIT BREAKER FOR NEW FLAGPOLE LIGHTING AT EXISTING PANEL B IN CORRIDOR WITH (2) #12+(1) #12-3/4". SEE E102.00 FOR PANEL LOCATION. SEE DETAIL E002.00-1 FOR CONTROLS.
2. FINAL FIXTURE AIMING BY E.C., PERFORMED AT NIGHT.

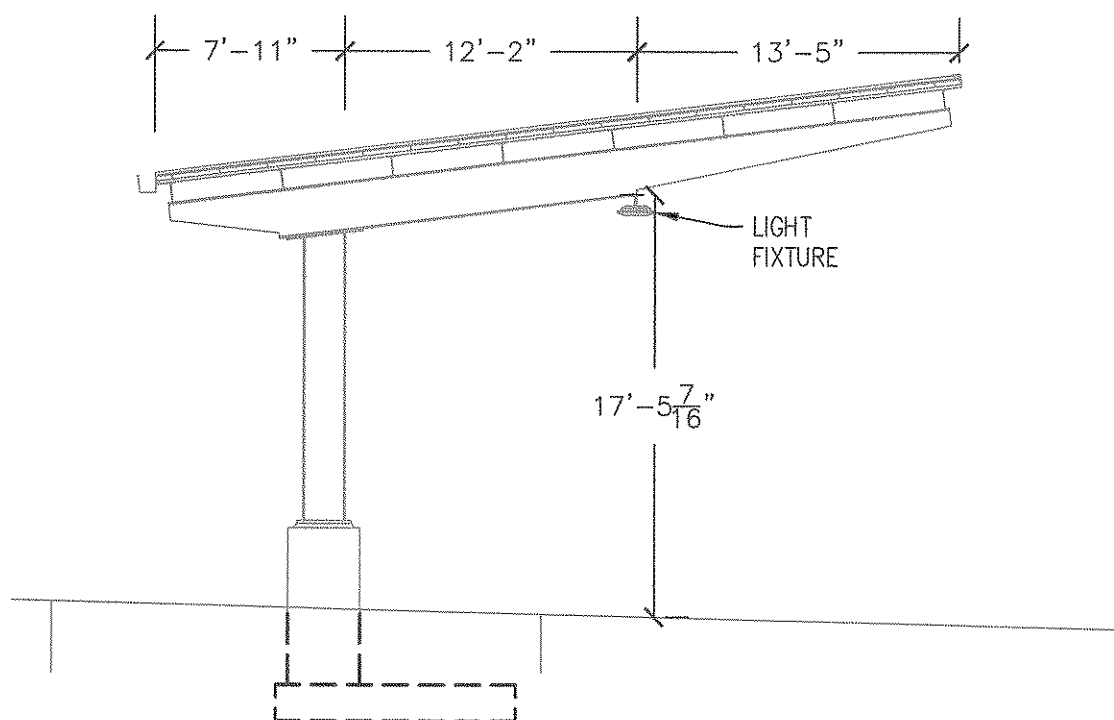
0003.00 1 TYPICAL FLAGPOLE LIGHTING DETAIL SCALE: NONE



NOTES:

1. PHOTOCELL ON-TIMER OFF.

0003.00 2 TYPICAL FLAGPOLE/CANOPY LIGHTING CONTROL DIAGRAM (TYPICAL FOR EACH LOCATION) SCALE: NONE



0003.00 3 CANOPY ELEVATION (TYPICAL) SCALE: NONE

SENSCAPE™

SPG18 SERIES

PRODUCT FEATURES:

- Textured lens for glare reduction and up-light feature to eliminate "cove effect"
- Outputs ranging from 3,455 lm to 11,728 lm
- Compatible with Deltek™ lighting control technology
- 10 Year limited product warranty

APPLICATIONS:

- Parking Decks
- Canopies
- Low Bay

SPECIFICATIONS

HOUSING: Marine grade die-cast aluminum and UV-stabilized polycarbonate construction. Standard TGIC polyester powder coat finish on aluminum components with five-step pre-treatment to withstand 1,000 hour salt spray test per ASTM B117. See Ordering Information for available finishes. Closed-cell silicone gasketing seals all housing component interfaces.

MOUNTING: Direct-to-Surface (DTS) and Quick-Mount (QM) mounting over recessed junction box, Trunnion Mount (TM) or pendant-mounted (PM) via 1/2" rigid sealed conduit. See Ordering Information for selection.

OPTICAL: Type V-Square and V-Narrow roadway distributions. Multiple uplight options optically coupled to primary light source requires no additional electrical power to provide function. UV-stabilized, high-impact resistant injection-molded clear textured polycarbonate or DR acrylic tertiary lens.

ELECTRICAL: Arrayed backlit mid-power LED light source. See Ordering Information for color temperature and CRI options. 70 CRI minimum. 120-277 VAC, 347VAC and 480VAC, 50/60Hz single-phase input. Constant current dimming driver <10% THD, <0.5% PF. Minimum 83% electrical efficiency. 1-10V dimming protocol with 1-100% range. 0.2mA source current. Replaceable single-suppressor rated to 20kAVV per IEEE/ANSI C62.41 Cat. A, EMC compliant with FCC 47 CFR Part 15, Class B. Passes IEC 61000-4-4 EFT and IEC 61000-4-5 (Class 4) surge evaluation.

TEKLINK™ TL500/TL500M: An independent lighting control system integral to the luminaire, featuring its own embedded occupancy sensor and adjustable time-out/dimming settings. TL500M adds a closed-loop daylight harvesting function for maximum energy savings.

TEKLINK™ TL100: Centralized, wired zonal occupancy and closed-loop daylight harvesting control system. TL100 controllers are standalone devices and ordered separately from luminaire. Click here for specifications.

TEKLINK™ TL1000/TL2000: An adaptive lighting control system with wired or wireless communication between system nodes. In addition to occupancy detection and daylight harvesting, TL1000 and TL2000 feature advanced scheduling and energy management capabilities with cloud-based management of system settings, reporting and notifications.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an IAC05017025 accredited laboratory. For photometric data, please go to www.kenall.com.

WARRANTY: Limited ten (10) year warranty. Limited five (5) year warranty when constructed with HA option. Peace of Mind Guarantee™ when ordered and installed with direct-to-surface (DTS) mounting and polycarbonate lens (TP).

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Location. IP65 rating per IEC 60598 standard with optional IP66 rating. Suitable for installation into -40°C to 40°C ambient environments, unless otherwise noted. Certain versions of this product are DesignLights Consortium (DLC) qualified. Consult factory and check the DLC Qualified Products List <http://www.dlc.com> for listed configuration details.



ORDERING INFORMATION (Ex: SPG18-PM-MW-SS-SU-TP-45L-40K7-DCC-DV-IP66-TL500M)

Model	Mounting	Finish	Optic Type	Uplight	Lens Type	Lamp Power	Lamp Color	Driver Type	Voltage	Options	Accessories	TeKLink	Controls Kit
SPG18	DTS-QM	MW	SS	SU	TP	40K8	40K8	DCC	DV	DS			
Mounting	DTS	PM	TM	QU									
	Direct-to-Surface	Pendant Mount	Trunnion Kit	Quick Mount System									
Finish	MW	LG	CC										
	Matte White (STD)	Light Gray	Custom Color (consult factory)										
Optic Type	SS	SN											
	Type V - Wide Square	Type V - Narrow											
Uplight	SU	EU	D										
	Standard Uplight (STD)	Enhanced Uplight	Downlight										
Lens Type	TP												
	Textured Polycarbonate (STD)	Textured Acrylic											
Lamp Power	20K	45L	70W	90L									
	20W LED	45W LED	70W LED	90W LED									
Driver Type	DS	FS	DS	IP66	HA								
	LED Emergency Battery Backup (0°C min. ambient, N/A 90L lamp, N/A 347V and 480V input)	Cold-Weather Battery Backup (20°C min. ambient, N/A 90L lamp, N/A 347V and 480V input)	Single Fuse & Holder	50°C Ambient Rating (see Warranty; n/a battery backup options)									
Options	LL	CEL											
	LED Emergency Battery Backup (0°C min. ambient, N/A 90L lamp, N/A 347V and 480V input)	Cold-Weather Battery Backup (20°C min. ambient, N/A 90L lamp, N/A 347V and 480V input)											
Accessories	BG												
	Bird Guard (DTS and QM Mounting only)												
TeKLink	TL500M	TL500	TL100	TL1000	TL2000								
	TL500 Control System, Motion Only (Click here for specifications)	TL500 Control System, Daylight Harvesting and Motion Sensing (Click here for specifications)	TL100 Control System Compatibility (Click here for specifications)	TL1000 Wireless Control System (Click here for specifications)	TL2000 Wireless Control System (Click here for specifications)								
Controls Kit	<	>											
	Factory Assigned Internal Code												

www.kenall.com P: 800-4-Kenall F: 262-891-9701 10200 55th Street Kenosha, Wisconsin 53144
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SPG18-121217

SENSCAPE™

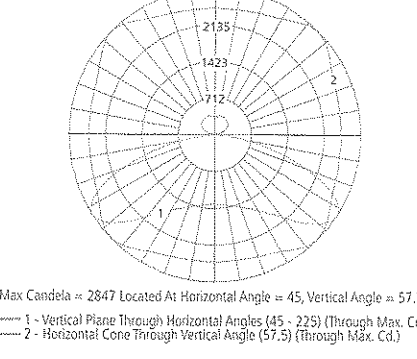
Luminaires for Parking Garages

SPG18 SERIES

PERFORMANCE

Standard Uplight

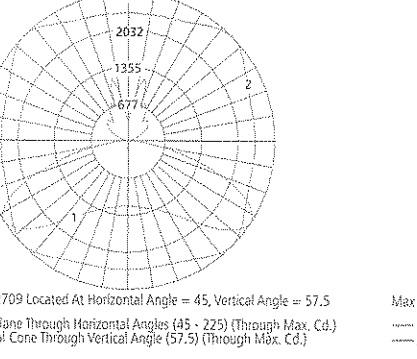
Model: SPG18-DTS-MW-SS-SU-TP-90L-40K7-DCC-DV



Max Candela = 2847 Located At Horizontal Angle = 45, Vertical Angle = 51.5
1 - Vertical Plane Through Horizontal Angles (45, 225) Through Max. Cd
2 - Horizontal Plane Through Vertical Angle (51.5) Through Max. Cd

Enhanced Uplight

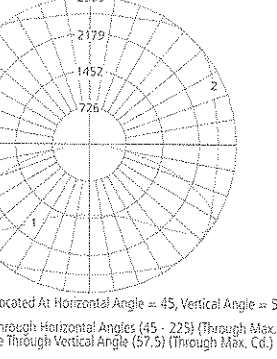
Model: SPG18-DTS-MW-SS-SU-TP-90L-40K7-DCC-DV



Max Candela = 2703 Located At Horizontal Angle = 45, Vertical Angle = 51.5
1 - Vertical Plane Through Horizontal Angles (45, 225) Through Max. Cd
2 - Horizontal Plane Through Vertical Angle (51.5) Through Max. Cd

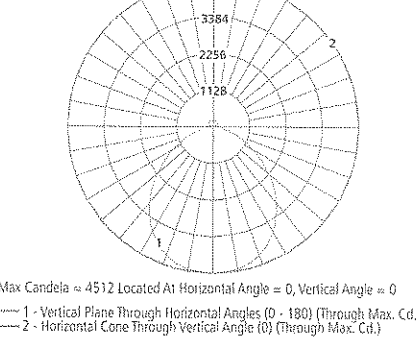
Downlight

Model: SPG18-DTS-MW-SS-D-TP-90L-40K7-DCC-DV



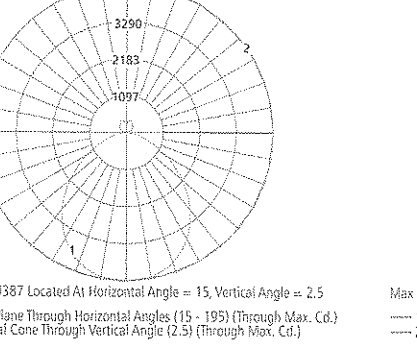
Max Candela = 1969 Located At Horizontal Angle = 45, Vertical Angle = 51.5
1 - Vertical Plane Through Horizontal Angles (45, 225) Through Max. Cd
2 - Horizontal Plane Through Vertical Angle (51.5) Through Max. Cd

Model: SPG18-DTS-MW-SS-SU-TP-90L-40K7-DCC-DV



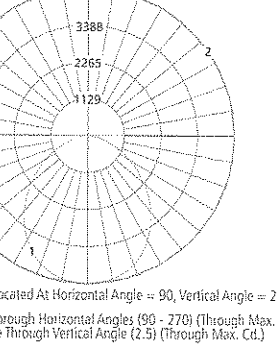
Max Candela = 4512 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) Through Max. Cd
2 - Horizontal Plane Through Vertical Angle (0) Through Max. Cd

Model: SPG18-DTS-MW-SS-SU-TP-90L-40K7-DCC-DV



Max Candela = 4287 Located At Horizontal Angle = 15, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (15 - 195) Through Max. Cd
2 - Horizontal Plane Through Vertical Angle (2.5) Through Max. Cd

Model: SPG18-DTS-MW-SS-D-TP-90L-40K7-DCC-DV



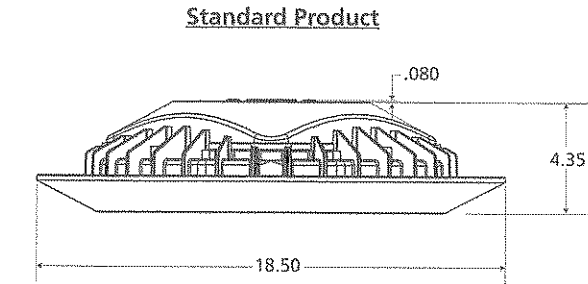
Max Candela = 4512 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) Through Max. Cd
2 - Horizontal Plane Through Vertical Angle (0) Through Max. Cd

LUMEN AMBIENT TEMPERATURE (LAT) FACTORS

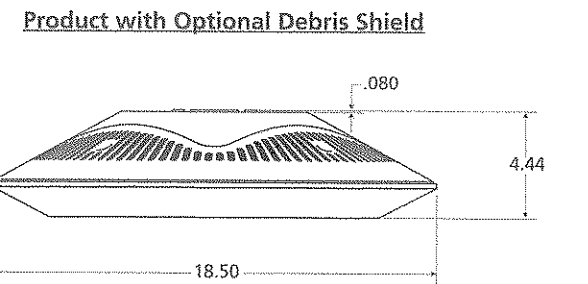
Avg. Ambient Temperature	10°C	15°C	20°C	25°C	30°C	35°C	40°C
Lumen Output Factor	1.03	1.02	1.01	1	0.99	0.98	0.97

DIMENSIONAL DATA

Standard Product



Product with Optional Debris Shield



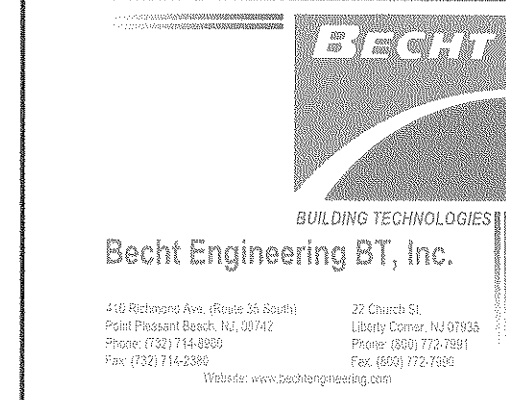
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SPG18-121217

LIGHTING FIXTURE SCHEDULE										
WATTS	TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	LAMP			MOUNTING	DRIVER	CONTROL
					VOLT	#	CATALOG #			
45	A	SENSCAPE SPG18 SERIES LED MARINE-GRADE DIE-CAST ALUMINUM HOUSING DIRECT-TO-SURFACE MOUNTING	KENALL ALT 1: RAB LIGHTING	DTS-QM-SS-SU-TP-40K8-DCC-DV-DS	120/277	-	-	SURFACE	-	LOCAL/RELAY
47	ALT B	TEKDEK TD17 SERIES LED MARINE-GRADE DIE-CAST ALUMINUM HOUSING DIRECT-TO-SURFACE MOUNTING	KENALL	TD17-DTS-SS-TP-MW-47L-40K8-DCC-DV-DS	120/277	-	-	SURFACE	-	LOCAL/RELAY
45	ALT C	PGX LED 18" DIAMETER PARKING GARAGE USE DIE-CAST HOUSING	LITHONIA	PGXLED-P2-40K-TSR-MVOLT-SRM-DWHXD	120/277	-	-	SURFACE	-	LOCAL/RELAY
50	SA	LED ROADWAY LIGHT (PATHWAY LIGHTING) DIE-CAST ALUMINUM HOUSING WET LOCATIONS SLIPFITTER MOUNTING	RAB LIGHTING ALT 1: LITHONIA ALT 2: HUBBELL	RWLED-2T-50-SF-N	120/277	-	-	POLE MOUNTING	-	LOCAL/RELAY
78	FP	D SERIES MEDIUM FLOODLIGHT (FLAGPOLE LIGHTING) DIE-CAST ALUMINUM HOUSING WET LOCATIONS	LITHONIA ALT 1: RAB LIGHTING ALT 2: HYDREL	DSXF2LED-P2-40K-MFL-MVOLT-THK-FV-FG-DDBXD	120/277	-	-	GROUND MOUNTING	-	LOCAL/RELAY
-	SP-A	POLE - 12' ROUND TAPERED ALUMINUM FOR ALL PEDESTRIAN GRADE LIGHTING	LITHONIA	RTA-12-5G-T20-FBC-HHC-ADB	-	-	-	-	-	-
-	SP-B	POLE - 30' ROUND TAPERED ALUMINUM - CAMERA	LITHONIA	RTA-30-8G-DM32MOD + GROMMET-VD-TP-FBC-HHC-ANA	-	-	-	-	-	-
LIGHTING FIXTURE SCHEDULE NOTES: 1. EMERGENCY FIXTURES SHALL BE CAPABLE OF ILLUMINATION FOR 90 MINUTES AND SHALL BE WIRED AHEAD OF LOCAL SWITCHING (BODINE WHERE APPLICABLE). 2. PROVIDE ALL NECESSARY MOUNTING HARDWARE. 3. PROVIDE UNIVERSAL MOUNT CANOPY WITH CEILING MOUNTED EXIT SIGNS. 4. PROVIDE ACCESSORIES FOR SEISMIC CONSIDERATIONS PER LOCAL CODES. 5. ALL DIMMING BALLASTS SHALL BE LUTRON, AS SHALL DIMMERS. U.O.N. 6. REFER TO PLAN NOTES FOR COORDINATION BEFORE ORDERING FIXTURES. 7. EMERGENCY RACKS FOR EMERGENCY FIXTURES SHALL BE EQUAL TO BODINE #B50 COLDPACK. U.O.N. COORDINATE BALLAST/DRIVER DIMENSIONS WITH FIXTURE HOUSINGS.										

GENERAL NOTE:

1. EIGHT PEDESTRIAN LIGHT POLES (SP-A) AND FIXTURES (SA) TO BE PROVIDED BY NJDOT AND INSTALLED BY CONTRACTOR.



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Professional Engineer
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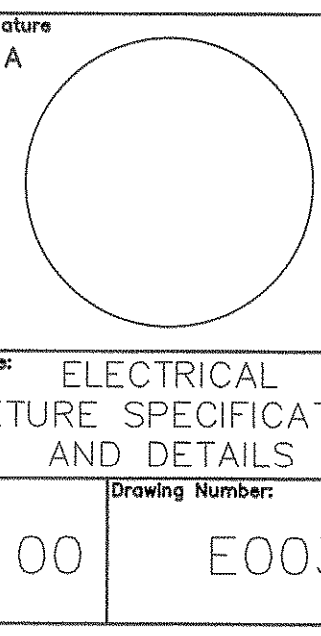
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Sheet: 00 Drawing Number: E003.00

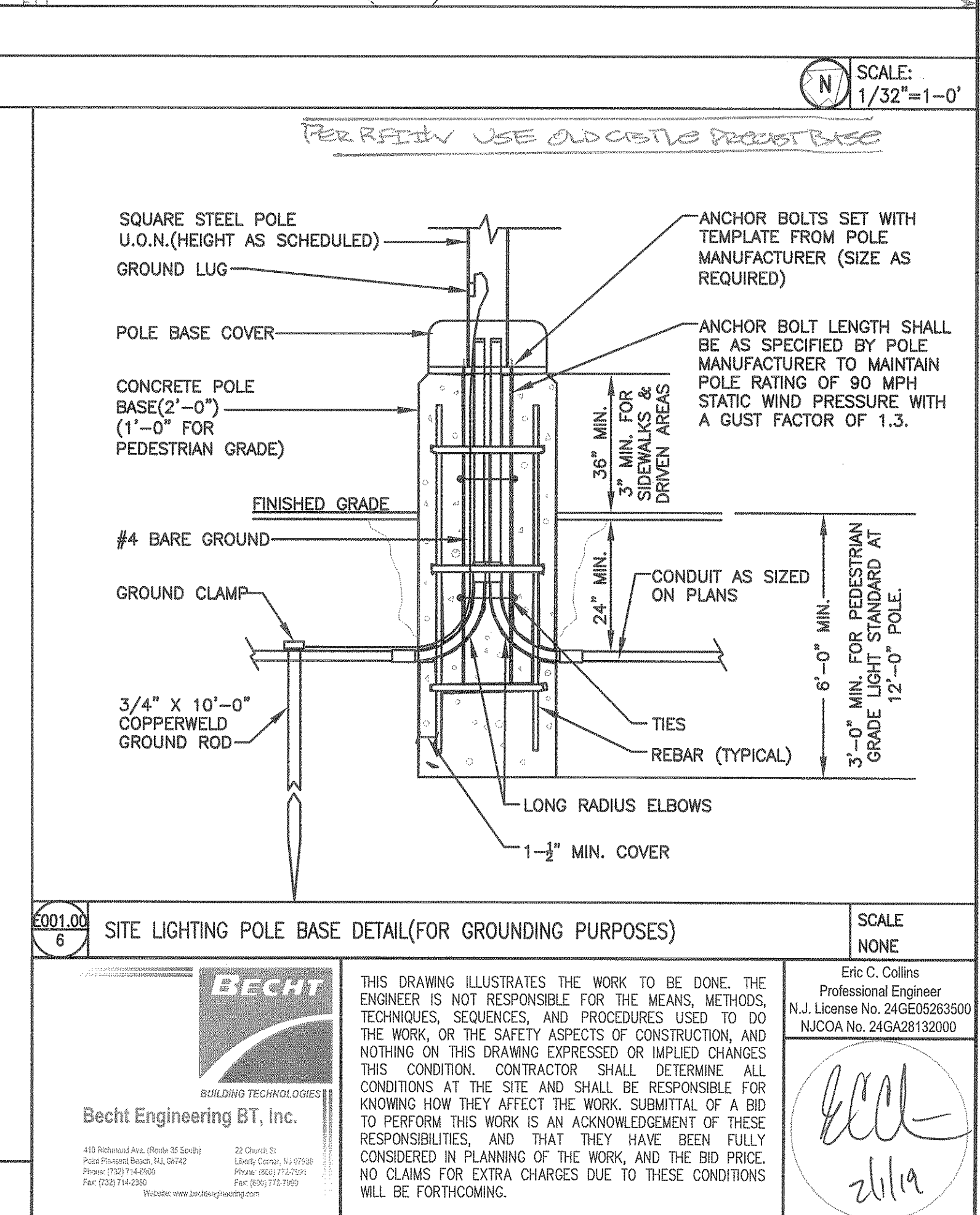
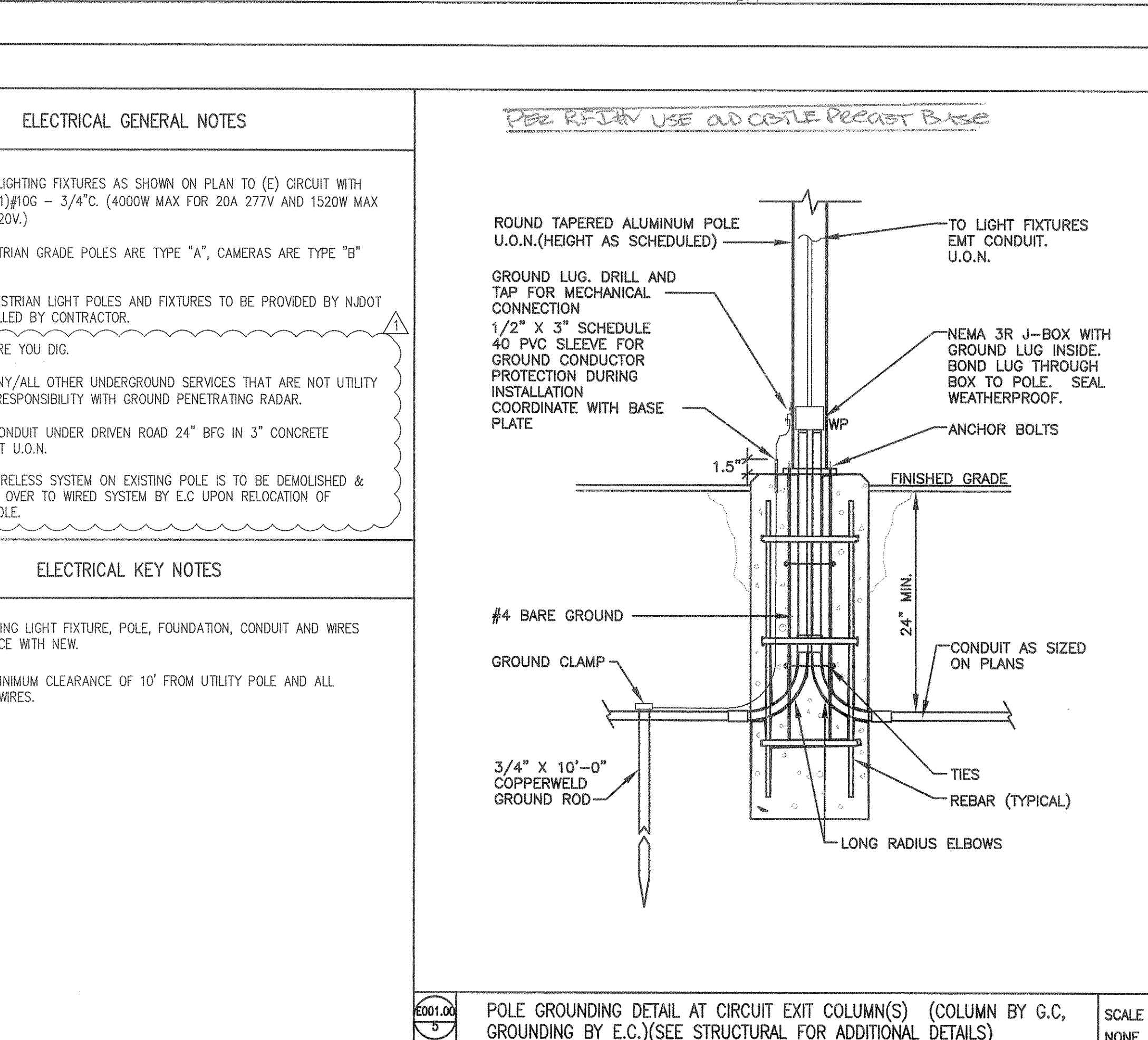
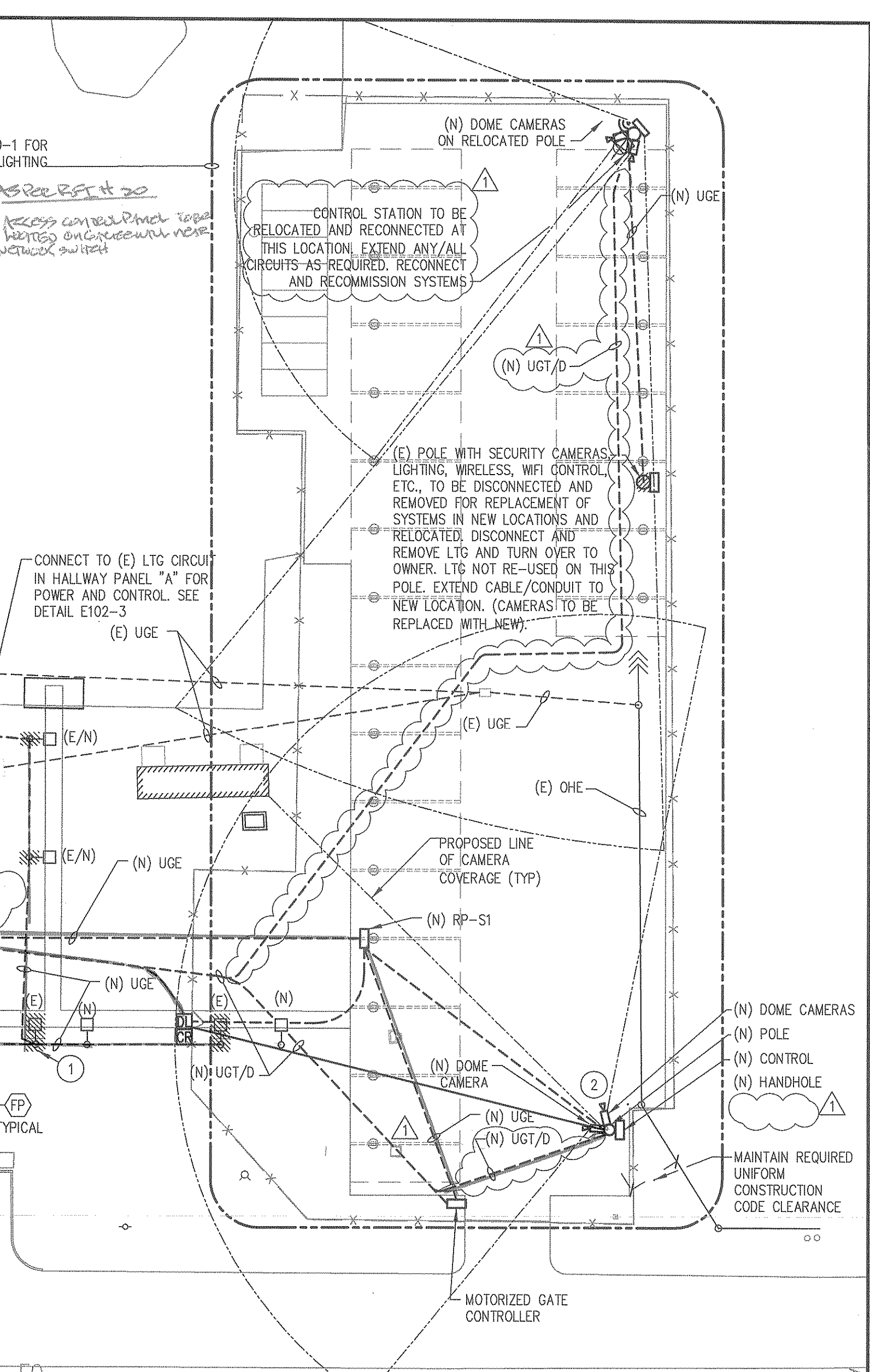
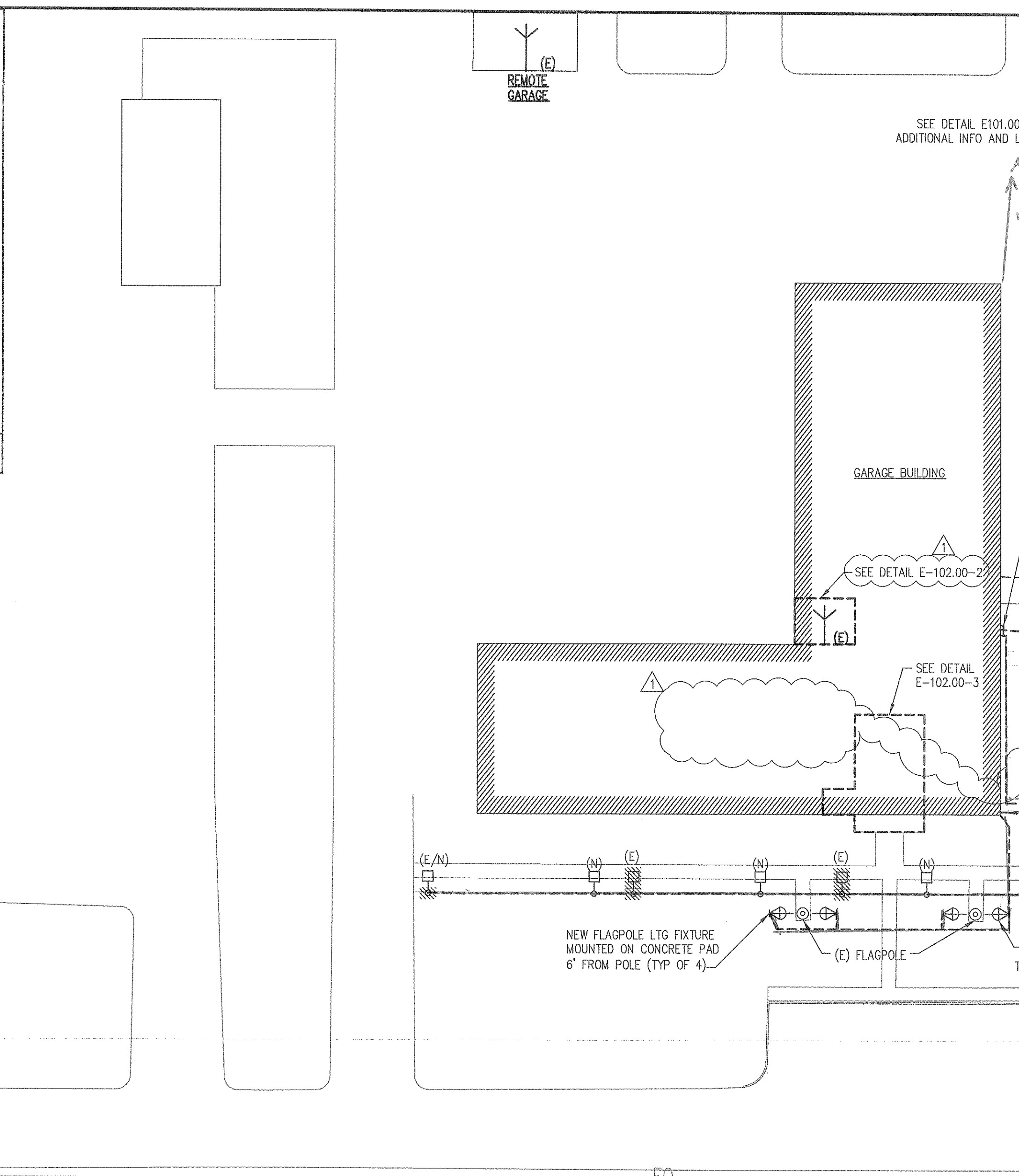
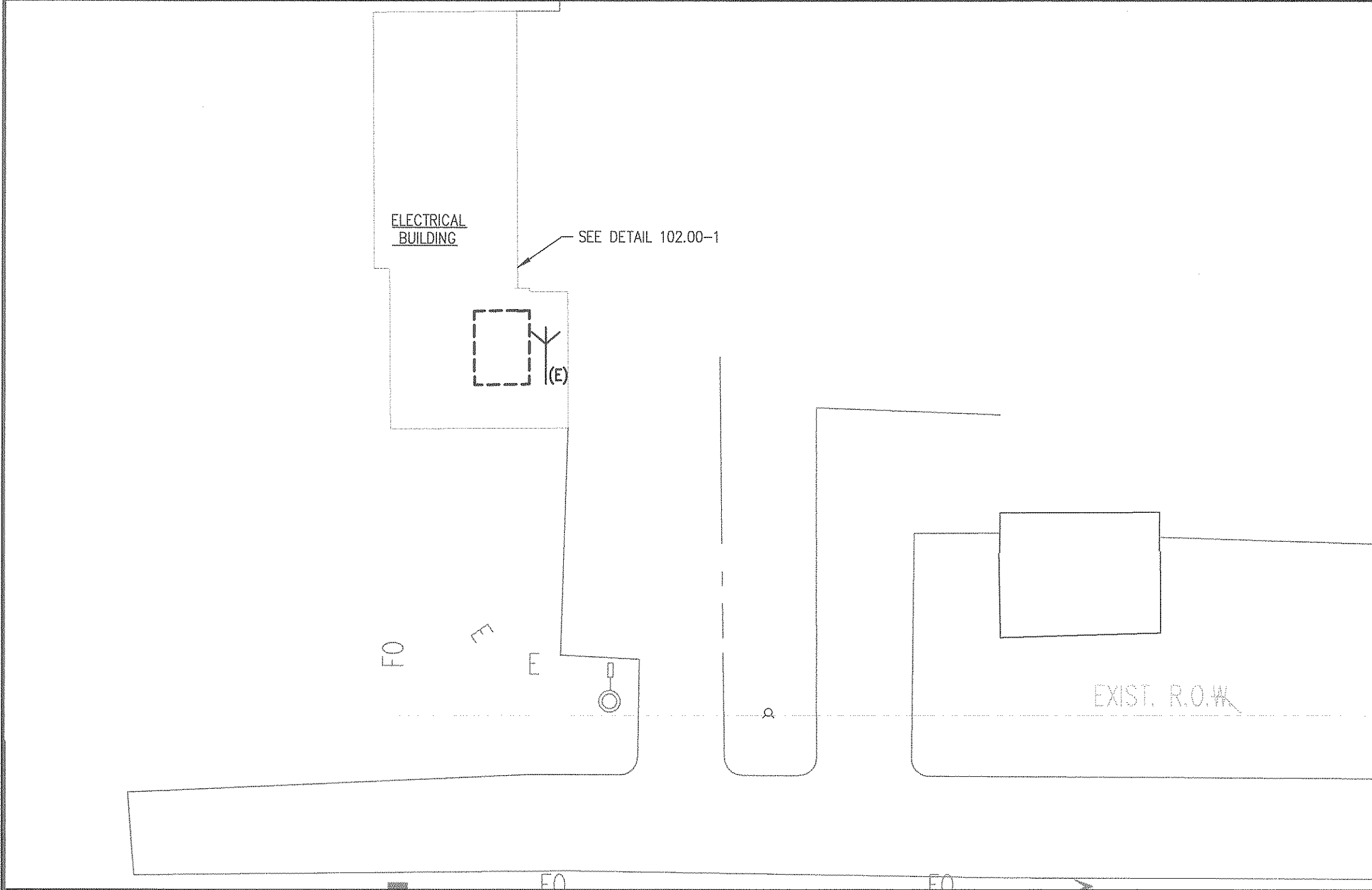
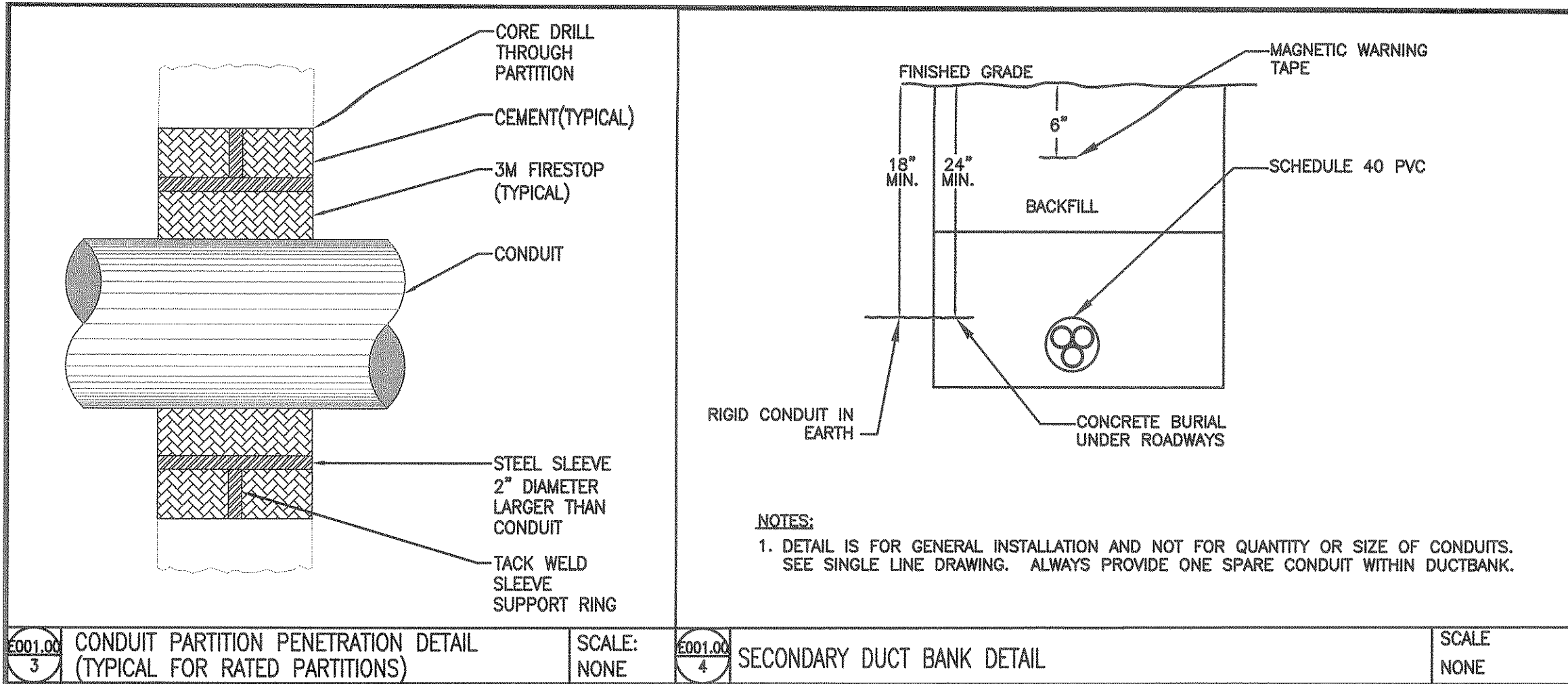
AS BUILT
Date: 11/10/20
Signature: [Signature]
Attec Building Systems Corp.
304 Atlantic Avenue
Pt. Pleasant, NJ 08742
(732) 503-0264

Revisions		
Date:	Description:	No.

Issued Documents
Date: 03-15-18 Design Development 50%
04-30-18 Final Design Submission
05-21-18 Final Design Submission #2

Seal & Signature
Michael A Moritz





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DPMC

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Division of Property Management and Construction, DPMC
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Trenton, NJ 08625

Department of Transportation
1035 Parkway Avenue, P.O. Box 600
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Project:
Carport Installation for the NJDOT Cherry Hill Maintenance Yard
1100 Frontage Road South
Cherry Hill, NJ - Camden County
Project #T0583-00

AS BUILT

Date: 10/10/20

Signature: [Signature]

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314 Atlantic Avenue
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(732) 903-6264

Revisions

Date:	Description:	No.

Issued Documents

Date:	Description:
03-15-18	Design Development 50%
04-30-18	Final Design Submission
05-21-18	Final Design Submission #2
12-04-18	DPMC COMMENT RESPONSE

Seal & Signature
Michael A Moritz

Drawing Title: **ELECTRICAL SITE PLAN**

Sheet: [Blank] Drawing Number: **ESU001**

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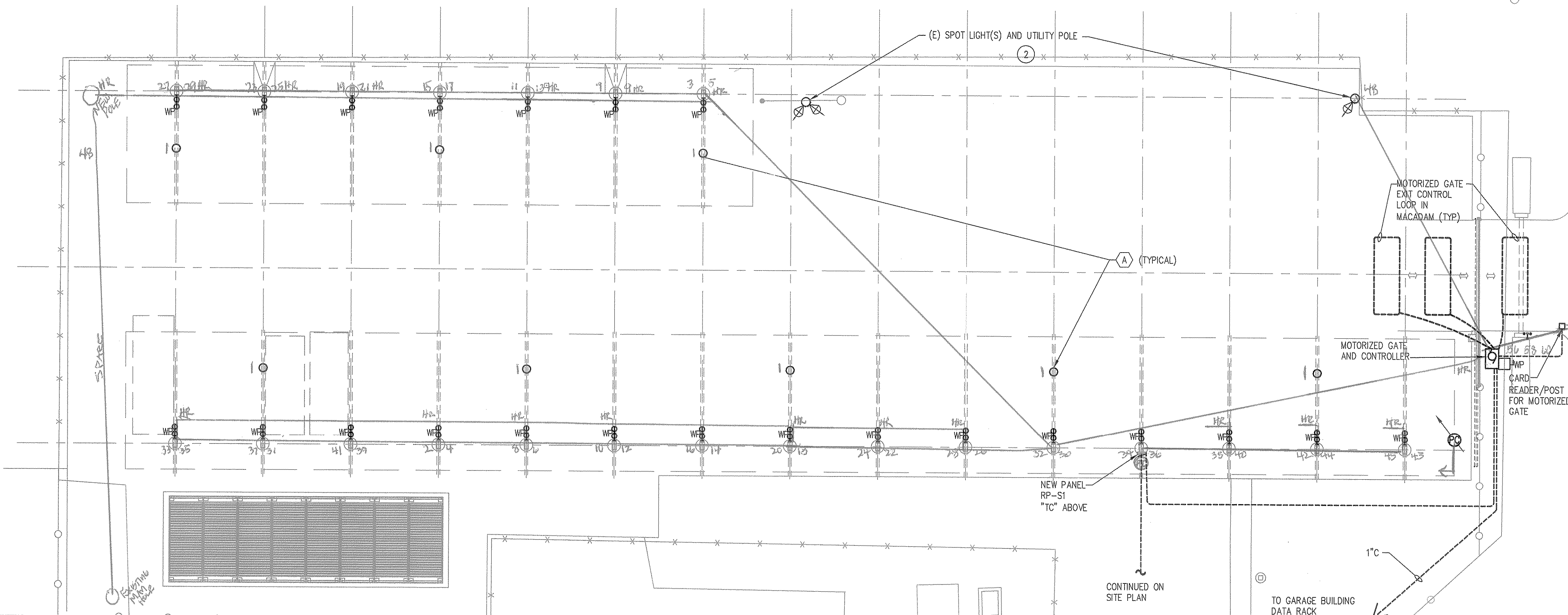
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Professional Engineer
N.J. License No. 24GE05263500
NJCOA No. 24GA28132000

10/10/20

E101.00

ELECTRICAL CARPORT SITE LIGHTING, TRUCK HEATER, AND MOTORIZED GATE PLAN



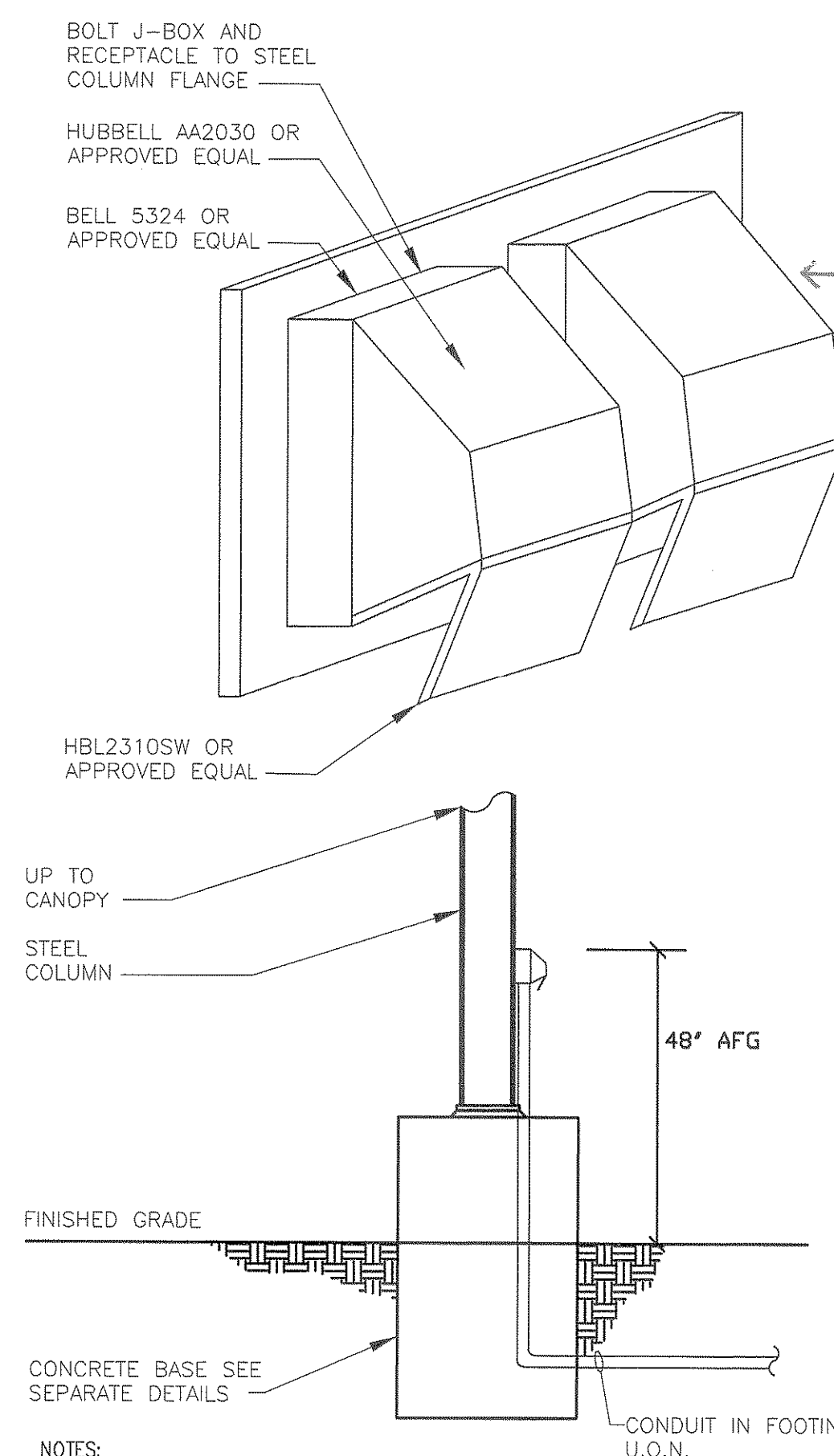
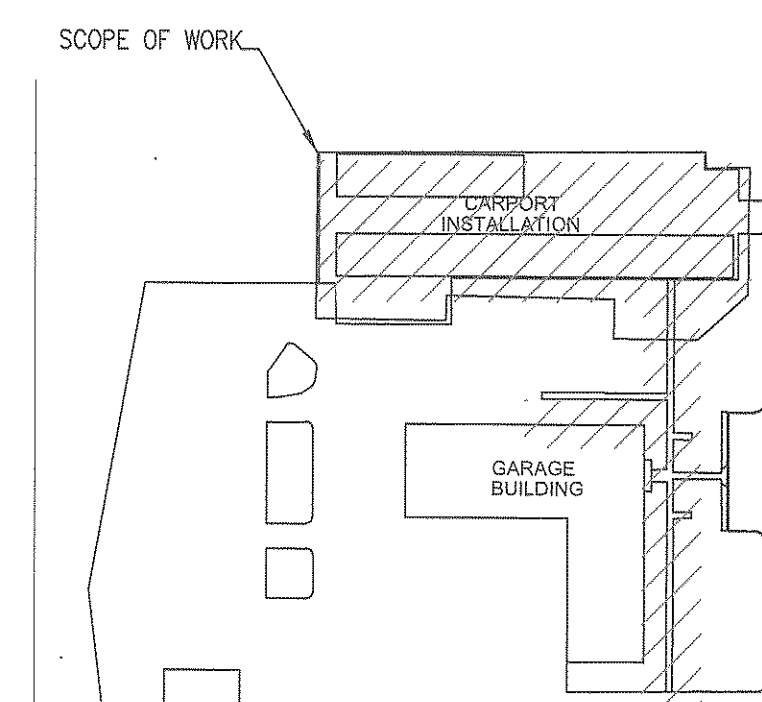
ELECTRICAL GENERAL NOTES

1. EXTERIOR SCOPE LIGHTING TO BE CONTROLLED BY DIGITAL TIME CLOCK AND PHOTOCELL.
2. ISO FOOT CANDLE PLOT LINE SHOWN AROUND FIXTURE REPRESENTS .5 FOOT CANDLE.
3. RUN 2#12 + 1#12G - 3/4" C TO NEW 20/1 CIRCUIT BREAKER AT CONTROL VIA "TORK" TIME CLOCK #DGLC OR APPROVED EQUAL WITH PHOTOCCELL MOUNTED ON TOP OF CANOPY FACING NORTH.
4. CONTRACTOR TO PROVIDE (8) MADE-UP INTERCONNECTION CORDS TO GO FROM RECEPTACLE TO TRUCK, WITH UNIT COST FOR ADDITIONAL (22).
5. REFER TO MOTORIZED GATE MANUFACTURER FOR INSTALLATION DETAILS.

ELECTRICAL KEY NOTES

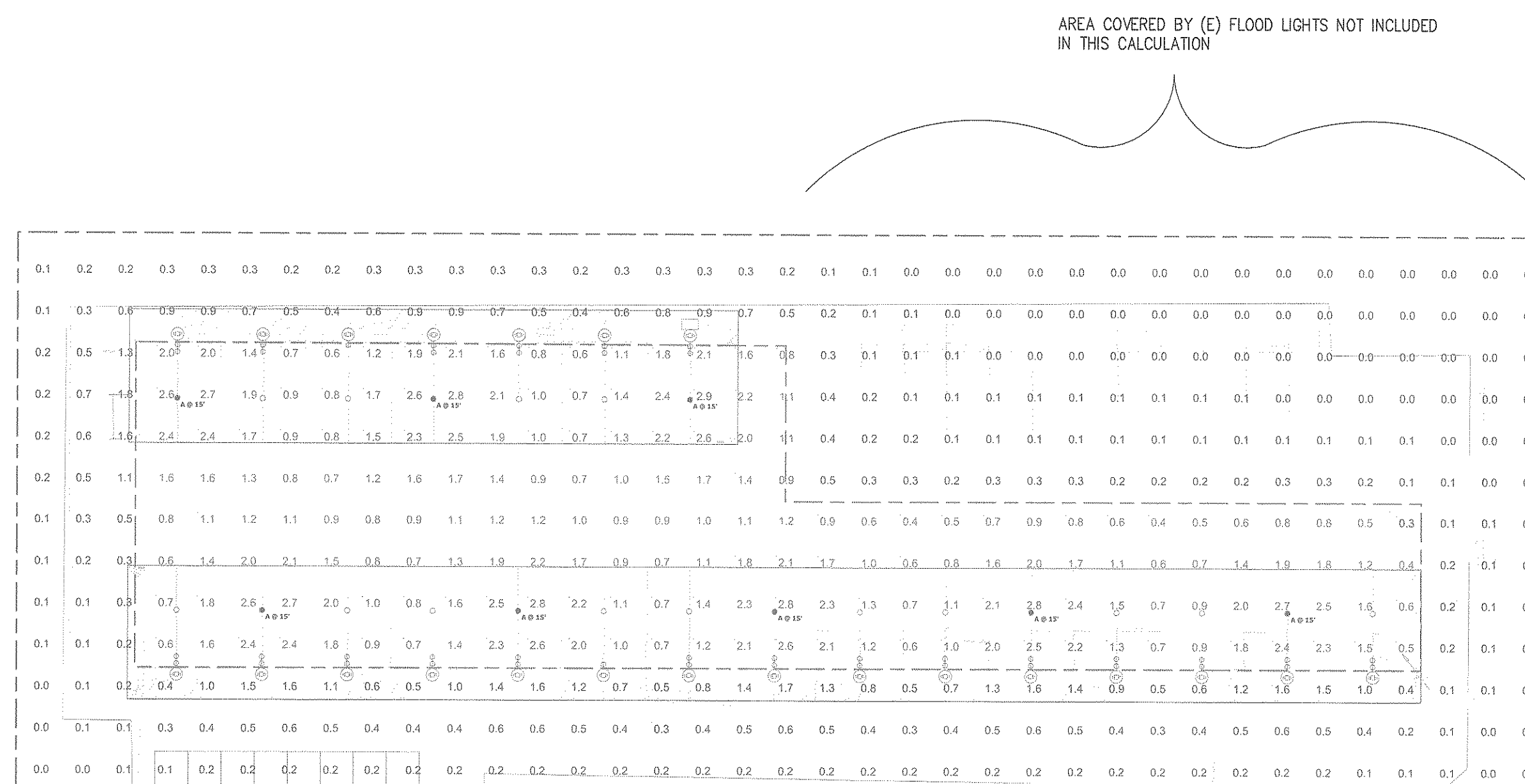
1. SEE CANOPY ELEVATION DETAIL ON E003.00 DRAWING.
2. E.G. TO RE-AIM (E) FLOOD LIGHTS AT NIGHT FOR OPTIMAL COVERAGE IN COORDINATION WITH OWNERS REP.

KEY PLAN



BLOCK HEATER RECEPTACLE MOUNTING DETAIL

SCALE: NONE



Schedule							
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Light Loss Factor
○	A	8	Kenall Manufacturing	SPG18-xxx-MW-55-SU-TP-45L-400B-DCC-DV-yyy	SPG-18 Series; Where xxx = Mounting type; yyy = all options, Accessories and TekLink (TLxxx) system options	Osram	0.88
							Wattage
							55

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
OVERALL @ GRADE	+	0.8 fc	2.9 fc	0.0 fc	N/A	N/A
PARKING @ GRADE	X	1.4 fc	2.9 fc	0.3 fc	9.7:1	4.7:1

PARKING LOT FOOT CANDLE LEVEL PLAN

SCALE: NONE

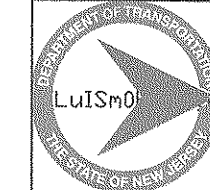


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Department of
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Project:
 Carport Installation for the:
 NJDOT Cherry Hill Maintenance
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 1100 Frontage Road South
 Cherry Hill, NJ - Camden
 County
 Project #T0583-00

AS BUILT

Date: 11/10/2010
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Revisions		
Date:	Description:	No.

Issued Documents
 Date: 03-15-18
 Description: Design Development 50%
 Date: 04-30-18
 Description: Final Design Submission
 Date: 05-21-18
 Description: Final Design Submission #2

Seal & Signature
 Michael A Moritz

Drawing Title: ELECTRICAL CARPORT SITE PLAN AND DETAILS
 Sheet: 00
 Drawing Number: E101.00

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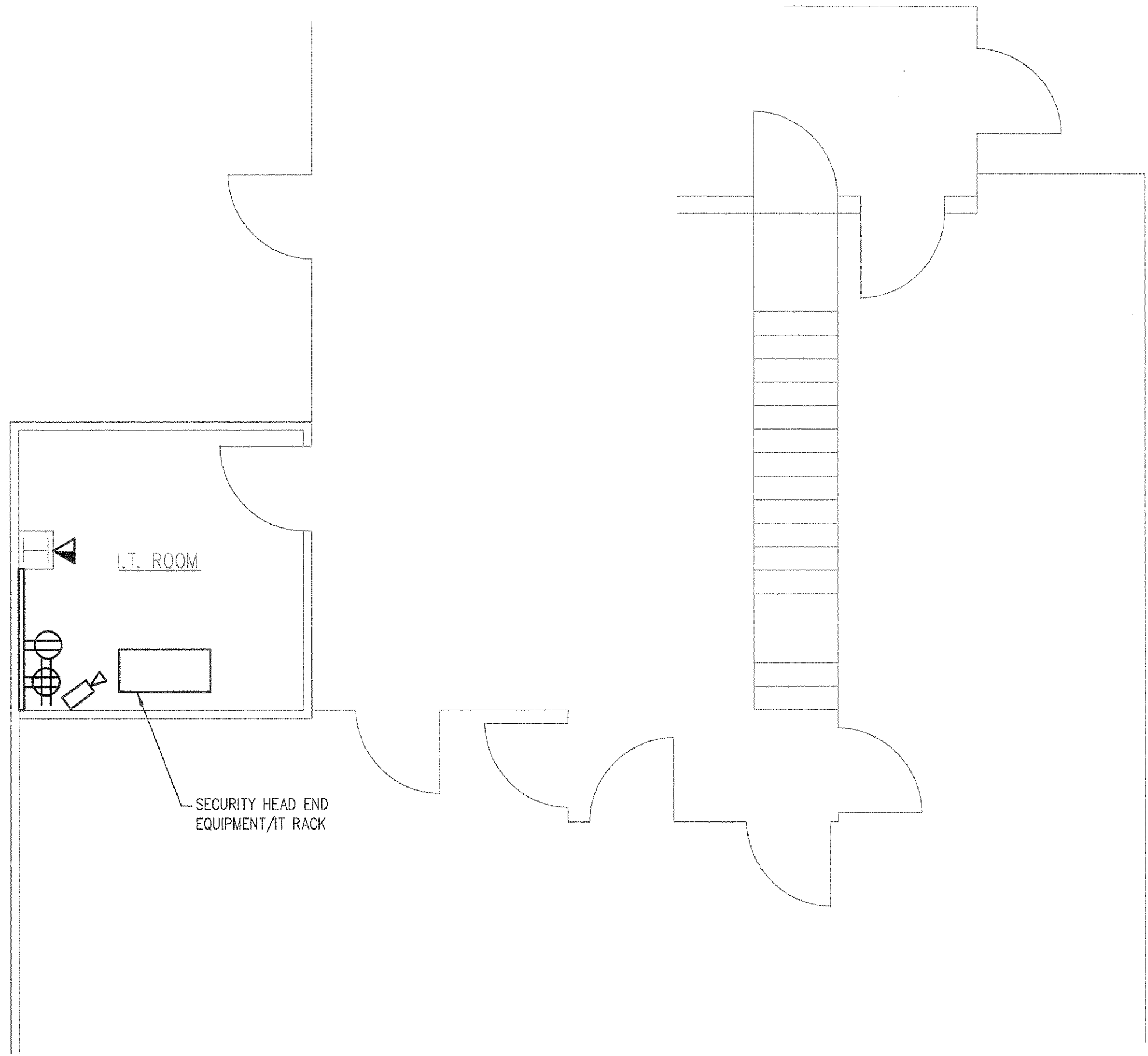
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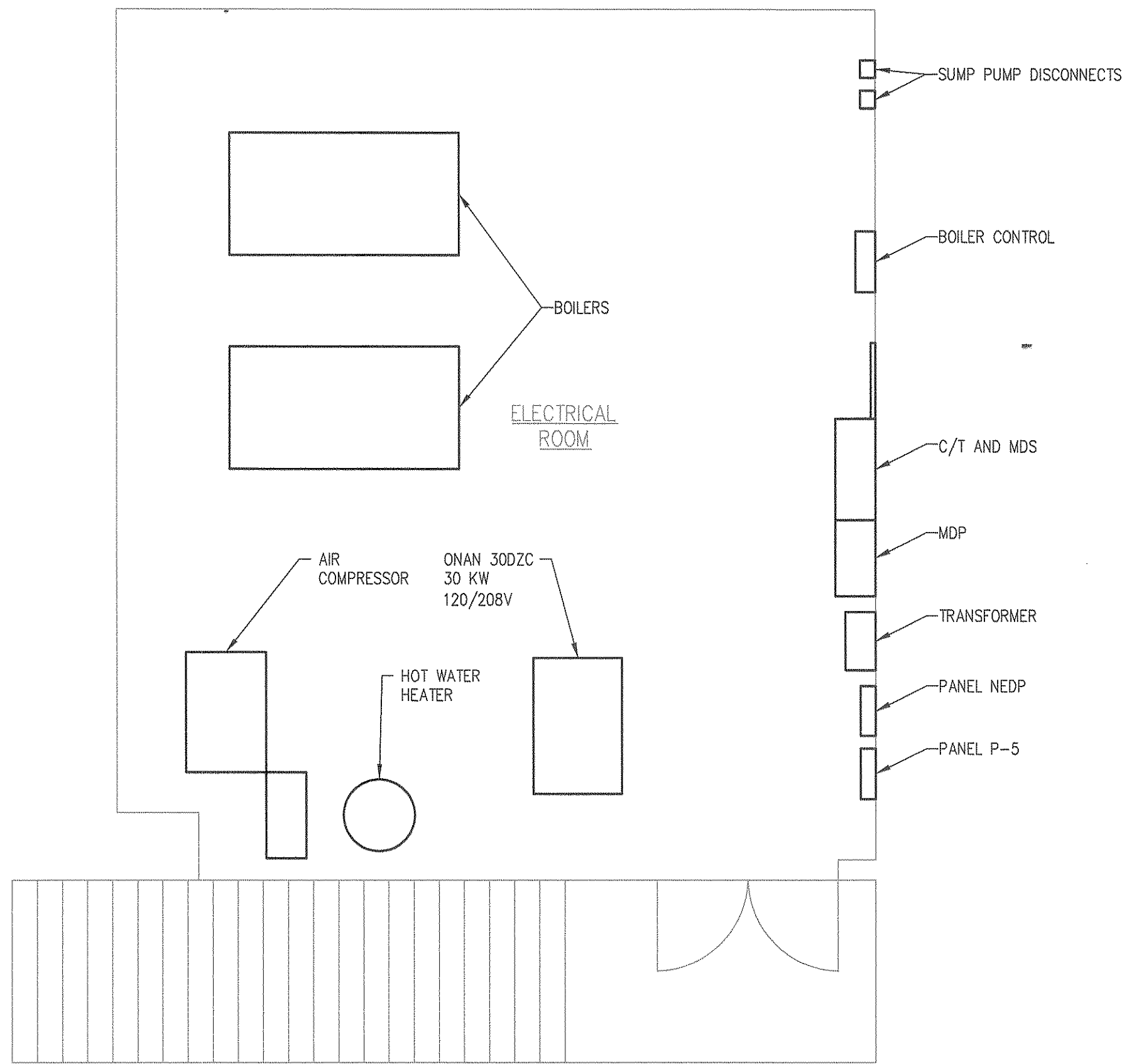
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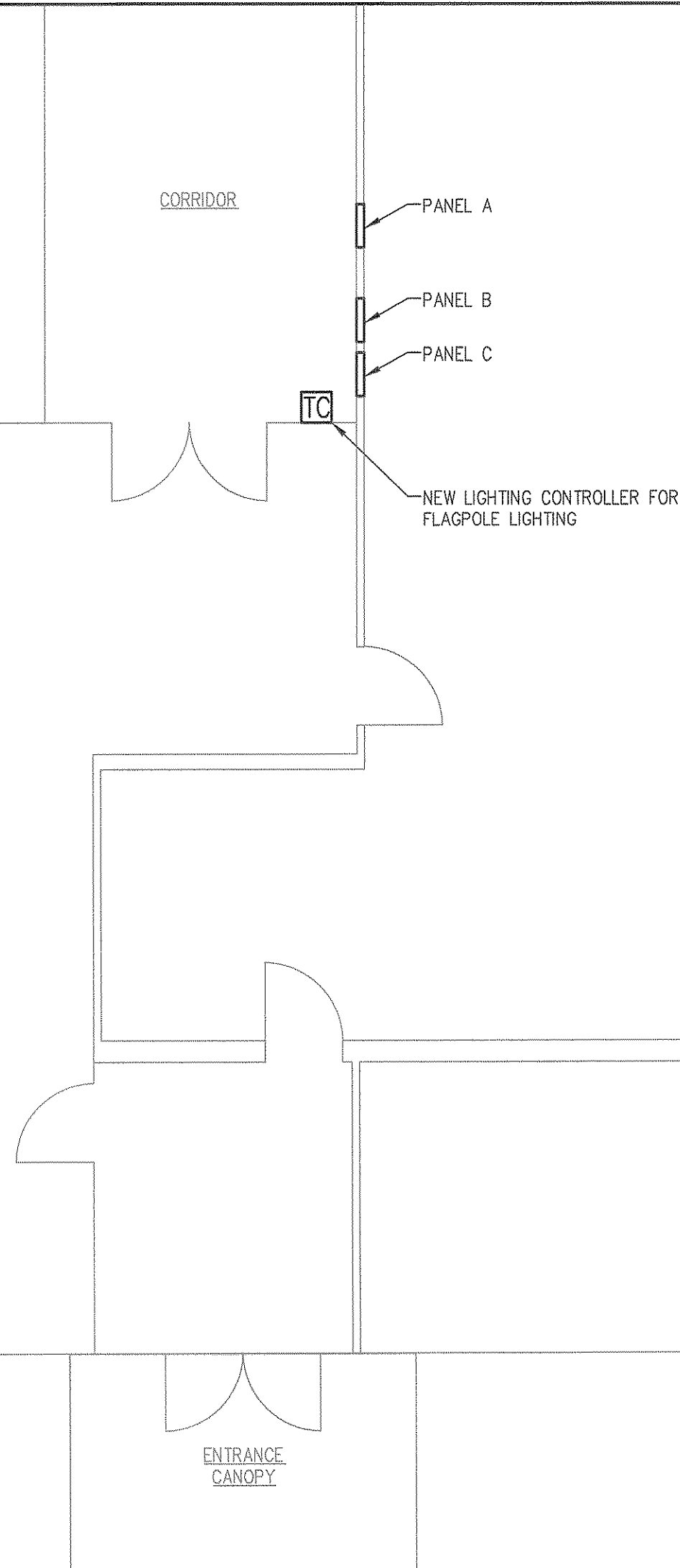
E102.00
1 SECURITY HEAD END PARTIAL FLOOR PLAN DETAIL (ELECTRICAL BUILDING)

SCALE:
1/4"=1'-0"



E102.00
2 BASEMENT ELECTRICAL ROOM PARTIAL FLOOR PLAN DETAIL (GARAGE BUILDING)

SCALE:
1/4"=1'-0"



E102.00
3 MAIN ENTRANCE PARTIAL FLOOR PLAN DETAIL (GARAGE BUILDING)

SCALE:
3/16"=1'-0"

ELECTRICAL GENERAL NOTES

1. ALL EQUIPMENT SHOWN IS EXISTING, U.O.N.
2. EXISTING BUILDING PLANS SHOWN FOR EQUIPMENT TIE-IN LOCATIONS.



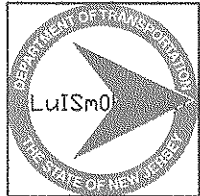
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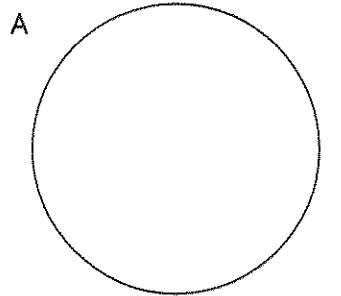
Department of
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1035 Parkway Avenue, P.O.
Box 600 Trenton, NJ 08625
Project:

Carport Installation for the:
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Cherry Hill, NJ - Camden
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Project #T0583-00

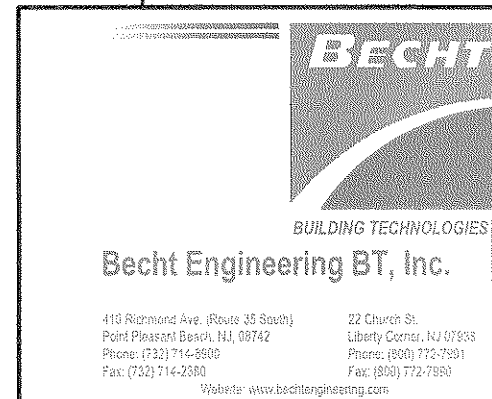
Revisions		
Date:	Description:	No.

Issued Documents	
Date:	Description:
03-15-18	Design Development 50%
04-30-18	Final Design Submission
05-21-18	Final Design Submission #2

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Michael A
Moritz



Drawing Title:	ELECTRICAL FLOOR PLAN DETAILS
Sheet:	00
Drawing Number:	E102.00



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