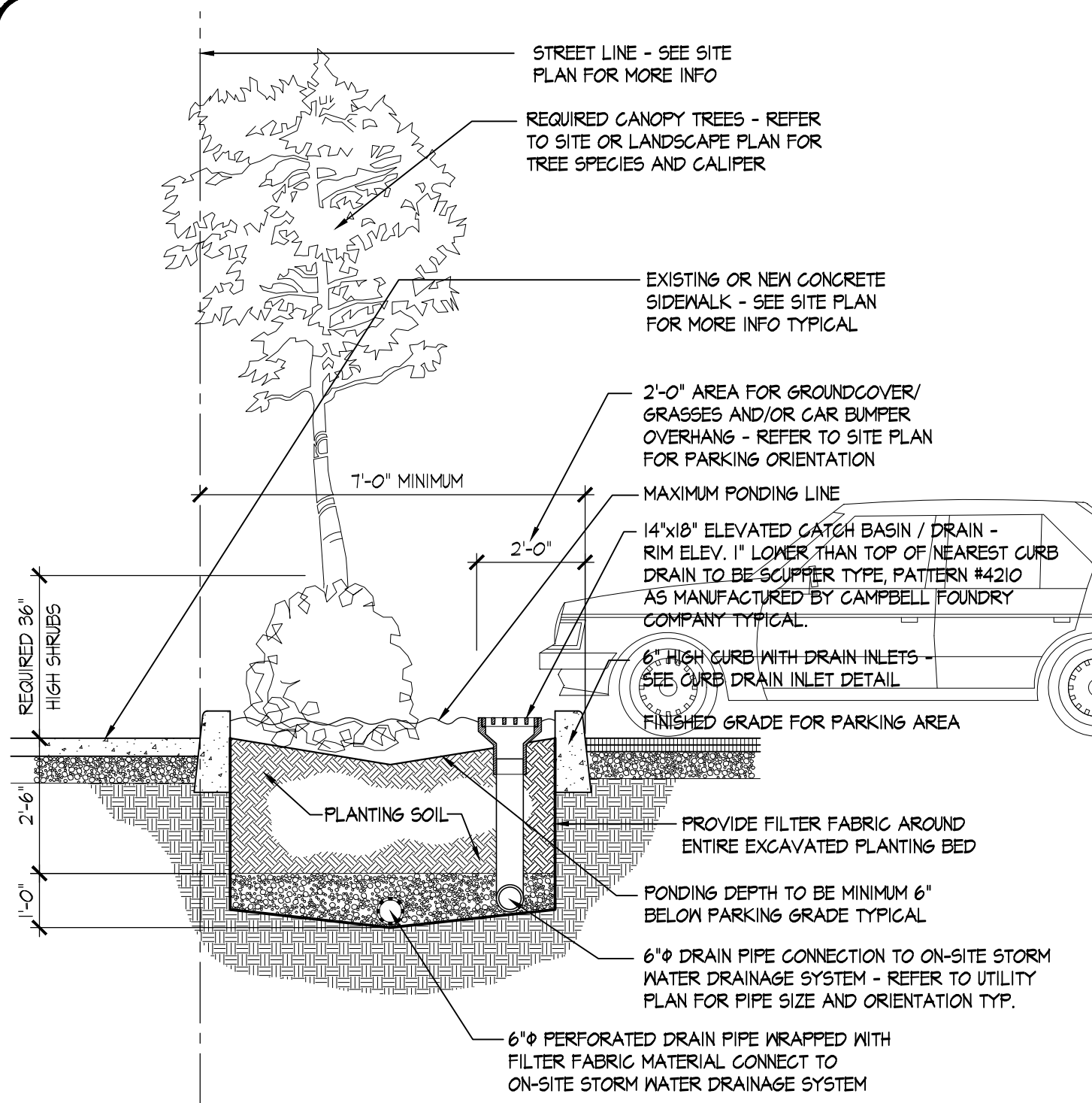
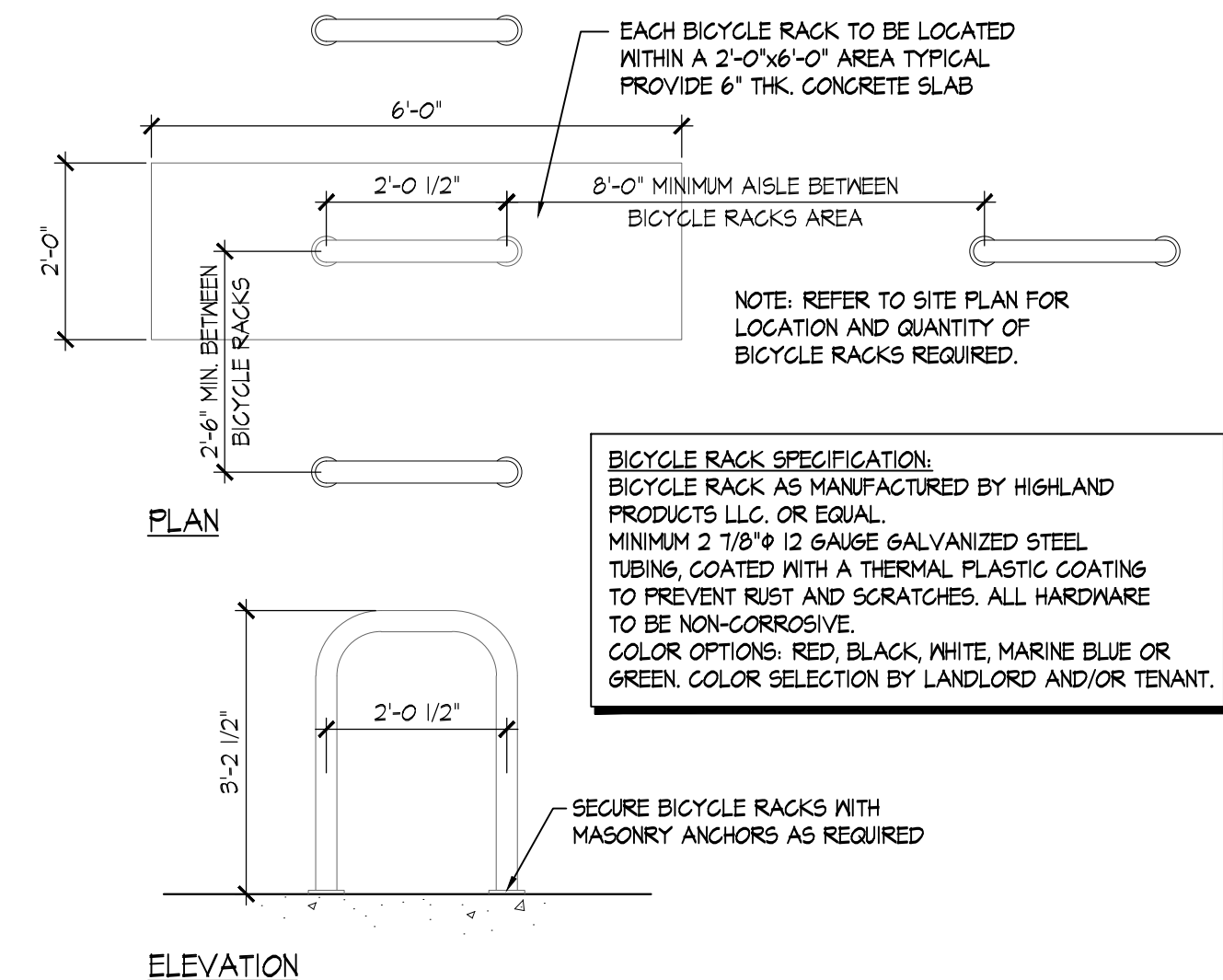




PERIMETER LANDSCAPING DETAIL

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



BICYCLE RACK DETAIL

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

ZONING DATA

ARTICLE III

CHAPTER 3 BULK REGULATIONS

33-03 STREET TREE PLANTING IN COMMERCIAL DISTRICTS:

IN ALL DISTRICTS AS INDICATED... ALL DEVELOPMENTS... SHALL PROVIDE STREET TREES IN ACCORDANCE WITH SECTION 26-41 (STREET TREE PLANTING). ONE STREET TREE, PRE-EXISTING OR NEWLY PLANTED, SHALL BE PROVIDED FOR EVERY 25 FEET OF STREET FRONTAGE OF THE ZONING LOT. FRACTIONS EQUAL TO OR GREATER THAN 1/2 RESULTING FROM THIS CALCULATION SHALL BE CONSIDERED ONE TREE. SUCH TREES SHALL BE PLANTED AT APPROXIMATELY EQUAL INTERVALS ALONG THE ENTIRE LENGTH OF THE CURB OF THE STREET ADJACENT TO THE ZONING LOT. THE STREET FRONTAGE USED TO CALCULATE NUMBER OF REQUIRED TREES MAY EXCLUDE THE STREET FRONTAGE OCCUPIED BY CURB CUTS SERVING USES LISTED IN USE GROUPS 16B, 16C AND 16D.

STREET FRONTAGES:	
TARGEET STREET	- 100'13"
DEKALB STREET	- 105'46"
RHINE AVENUE	- 100'13"
TOTAL STREET FRONTAGE	- 346'22"
PERMITTED DEDUCTIONS	- NONE
NET STREET FRONTAGE	- 346'22"
1 TREE PER 25' OF STREET FRONTAGE	- 346'22' / 25' = 16
REQUIRED STREET TREES	- 16
EXISTING TREES REMOVED	- 0
CREDIT FOR EXISTING TREES	- 2
TREES TO BE PLANTED	- 14
TREES PAID INTO FUND	- 14
TOTAL STREET TREES PROVIDED	- 16 ok

33-12 MAXIMUM FLOOR AREA RATIO

FOR ANY BUILDING ON ANY ZONING LOT, THE MAXIMUM FLOOR AREA RATIO SHALL NOT EXCEED THE FLOOR AREA RATIO SET FORTH IN THIS SECTION.

33-12I IN DISTRICTS WITH BULK GOVERNED BY RESIDENCE DISTRICT

IN THE DISTRICT INDICATED, THE MAXIMUM FLOOR AREA RATIO FOR A COMMERCIAL... BUILDING IS DETERMINED BY THE RESIDENCE DISTRICT WITHIN SUCH COMMERCIAL DISTRICT IS MAPPED AND SHALL NOT EXCEED THE MAXIMUM FLOOR AREA RATIO SET FORTH IN THE FOLLOWING TABLE.

MAXIMUM PERMITTED F.A.R.	DISTRICT
1.00	C1-2 WITHIN RSA DISTRICT
BULK COMPUTATIONS	
ZONING LOT	
LOT AREA: 19,446 SQ. FT. (0.451 AC)	
LOT AREA USED FOR ZONING	- 19,446.00 SF
FIRST FLOOR AREA	- 13,225.50 SF
TOTAL FLOOR AREA (DOB)	- 13,225.50 SF
TOTAL FLOOR AREA (ZONING)	- 13,225.50 SF
FAR (1.00 MAX); ACTUAL F.A.R.	- 0.512 < 1.00 ok

33-25 MINIMUM REQUIRED SIDE YARD

NO SIDE YARDS ARE REQUIRED; HOWEVER, IF ANY OPEN AREA EXTENDING ALONG A SIDE LOT LINE IS PROVIDED, IT SHALL BE AT LEAST 8'-0" WIDE.

33-79I REQUIRED YARDS ALONG DISTRICT BOUNDARY COINCIDENT

WITH SIDE LOT LINE OF ZONING LOT IN AN... RS... DISTRICT

DISTRICT	REQUIRED WIDTH OR DEPTH OF YARD
C1-2	8'-0"

CHAPTER 6 ACCESSORY OFF-STREET PARKING AND LOADING REGULATIONS

36-10 REQUIRED ACCESSORY OFF-STREET PARKING SPACES FOR COMMERCIAL... USES

PARKING CATEGORY:	BI	ZONING DISTRICT:	C1-2
PARKING REQUIRED: (1 PER 300 SF OF FLOOR AREA)			
TOTAL ZONING FLOOR AREA	-	13,225.50 SF	
13,225 / 300 = 24 SPACES REQUIRED			
PARKING SPACES PROVIDED = 24 CARS (22 + 2 H.C. SPACE)			

36-62 REQUIRED ACCESSORY OFF-STREET LOADING BERTHS

TYPE OF USE	FLOOR AREA (SF)	REQUIRED BERTHS
COMMERCIAL USES:	FIRST 8,000	NONE
ALL RETAIL OR SERVICE USES	NEXT 11,000	-
LISTED IN USE GROUP 6...	NEXT 15,000	-
	NEXT 20,000	-
	NEXT 40,000	-
	EA. ADDITIONAL 80,000 OR FRACTION THEREOF	-

TOTAL ZONING FLOOR AREA	-	13,225.50 SF
LOADING BERTHS REQUIRED	-	NONE
LOADING BERTHS PROVIDED	-	NONE

36-712 UNENCLOSED BICYCLE PARKING SPACES

IN ALL DISTRICTS INDICATED, FOR OPEN PARKING AREAS ACCESSORY TO COMMERCIAL... USES THAT CONTAIN 10 OR MORE SPACES OR ARE GREATER THAN 6,000 SQUARE FEET IN AREA... UNENCLOSED BICYCLE PARKING SPACES SHALL BE PROVIDED AS FOLLOWS:

ONE (1) BICYCLE PARKING SPACE SHALL BE PROVIDED FOR EVERY TEN (10) AUTOMOBILE PARKING SPACES, UP TO 200 AUTOMOBILE PARKING SPACES.	
--	--

AUTOMOBILE SPACES PROVIDED	-	24
FIRST 200 AUTOMOBILE SPACES / 10	-	24
REQUIRED BICYCLE PARKING SPACES	-	2
BICYCLE PARKING SPACES PROVIDED	-	4 > 2 ok

SITE CONSTRUCTION NOTE:

BUILDER TO ENSURE THAT WORK DONE UNDER THIS APPLICATION WILL HAVE NO ADVERSE EFFECT ON ANY SURROUNDING PROPERTIES CONCERNING STORM WATER DRAINAGE. FURTHERMORE, THE BUILDER WILL INSTALL REQUIRED CURB WALLS (IF NOT ALREADY EXISTING) AS REQUIRED PER FIELD CONDITIONS.

STREET IMPROVEMENT NOTE:

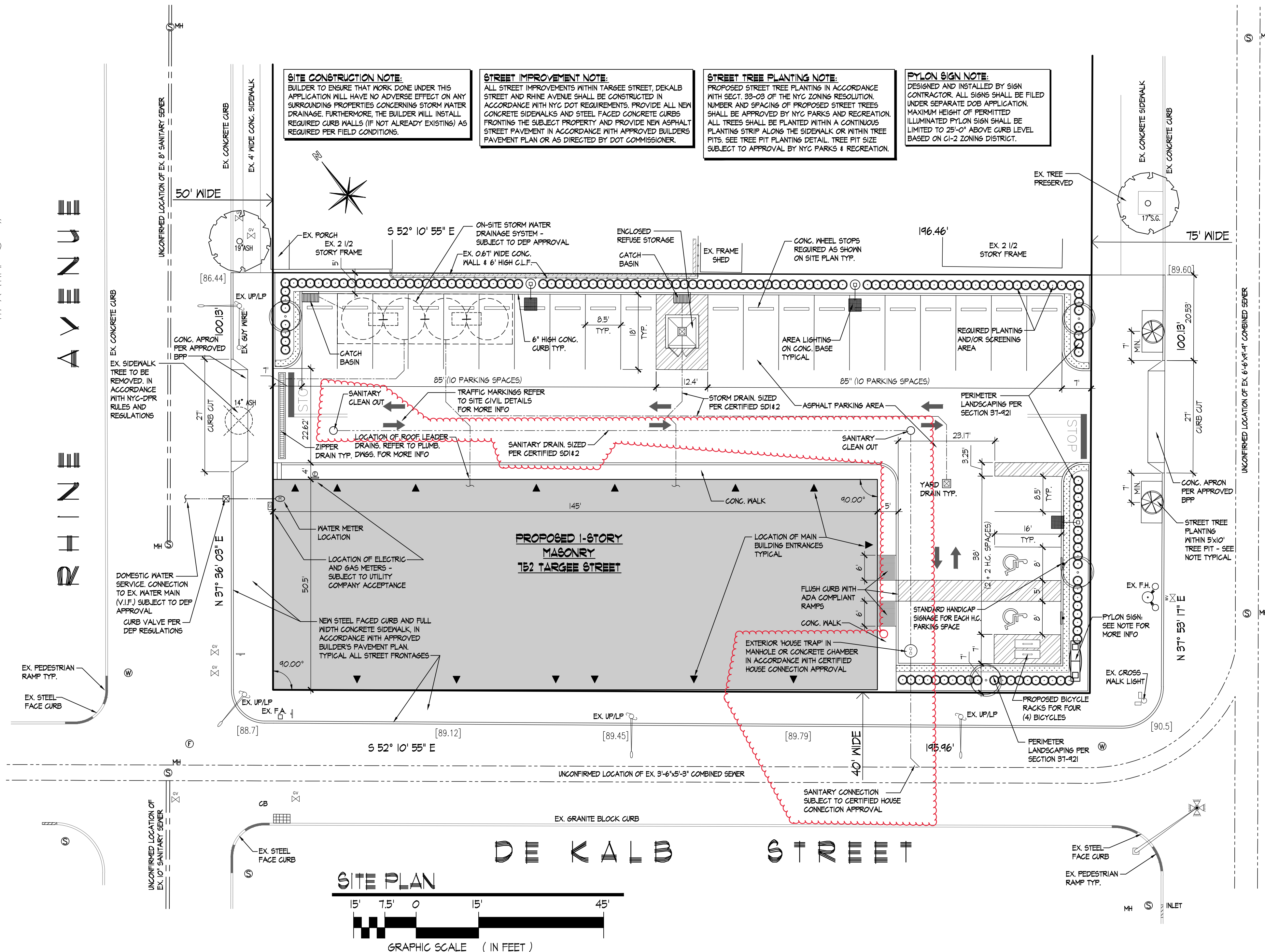
ALL STREET IMPROVEMENTS WITHIN TARGEET STREET, DEKALB STREET AND RHINE AVENUE SHALL BE CONSTRUCTED IN ACCORDANCE WITH NYC DOT REQUIREMENTS. PROVIDE ALL NEW CONCRETE SIDEWALKS AND STEEL FACED CONCRETE CURBS FRONTING THE SUBJECT PROPERTY AND PROVIDE NEW ASPHALT STREET PAVEMENT IN ACCORDANCE WITH APPROVED BUILDERS PAVEMENT PLAN OR AS DIRECTED BY DOT COMMISSIONER.

STREET TREE PLANTING NOTE:

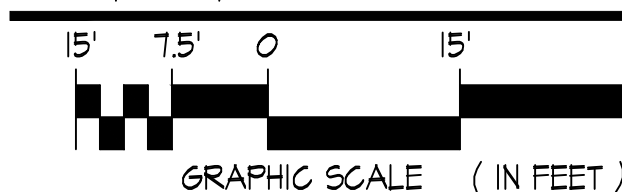
PROPOSED STREET TREE PLANTING IN ACCORDANCE WITH SECT. 39-03 OF THE NYC ZONING RESOLUTION. NUMBER AND SPACING OF PROPOSED STREET TREES SHALL BE APPROVED BY NYC PARKS AND RECREATION. ALL TREES SHALL BE PLANTED WITHIN A CONTINUOUS PLANTING STRIP ALONG THE SIDEWALK OR WITHIN TREE PITS. SEE TREE PIT PLANTING DETAIL. TREE PIT SIZE SUBJECT TO APPROVAL BY NYC PARKS & RECREATION.

PYLON SIGN NOTE:

DESIGNED AND INSTALLED BY SIGN CONTRACTOR. ALL SIGNS SHALL BE FILED UNDER SEPARATE DOB APPLICATION. MAXIMUM HEIGHT OF PERMITTED ILLUMINATED PYLON SIGN SHALL BE LIMITED TO 28'-0" ABOVE CURB LEVEL BASED ON C1-2 ZONING DISTRICT.



SITE PLAN



BLOCK INFO:

BLOCK	-	2403	SPECIAL SOUTH RICHMOND DISTRICT	-	OUTSIDE
LOTS (CURRENT)	-	13, 17, 20 & 23	DESIGNATED OPEN SPACE	-	OUTSIDE
LOT (TENTATIVE TAX)	-	13	NATURAL AREA DISTRICT	-	OUTSIDE
HOUSE NUMBER	-	152 TARGEET ST.	SPECIAL HILLSIDE DISTRICT	-	OUTSIDE
ZONING DISTRICT	-	C1-2 WITHIN RSA	WETLANDS ADJACENT AREA	-	OUTSIDE
ZONING MAP	-	21a	FLOOD HAZARD	-	OUTSIDE
COMMUNITY BOARD	-	501	FIRE DISTRICT	-	OUTSIDE
LOT AREA	-	19,446.00 SF			
USE GROUP	-	6			
OCCUPANCY CLASS	-	M (MERCANTILE)			
CONSTRUCTION CLASS	-	TYPE II-B			

CONTROLLED INSPECTIONS:

SPECIAL INSPECTION CATEGORIES:	
FIRE-RESISTANT PENETRATIONS AND JOINTS	BC 1704.21
PROGRESS INSPECTION CATEGORIES:	
ENERGY CODE COMPLIANCE INSPECTIONS (TR-8)	BC 1103.5

ENERGY CODE INSPECTIONS:

PROGRESS INSPECTION ITEMS:	
INSULATION PLACEMENT AND R VALUES	(IIA2)
PENETRATION AND DOOR U-FACTOR & PRODUCT RATINGS	(IIA3)
FEENSTRATION AREAS	(IIA5)
AIR BARRIER - VISUAL INSPECTION	(IIA6)
METERING	(IIC1)
INTERIOR LIGHTING POWER	(IIC3)
EXTERIOR LIGHTING POWER	(IIC4)
MAINTENANCE INFORMATION	(IID1)
PERMANENT CERTIFICATE	(IID2)

NOTE:

CONTROLLED INSPECTIONS SHALL BE PERFORMED BY A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER RETAINED BY THE OWNER AND/OR CONTRACTOR. ROGERS CALVANICO GROUP, PLLC HAS NOT BEEN RETAINED TO PERFORM CONTROLLED INSPECTIONS, NOR SUPERVISE THE CONSTRUCTION OF THIS PROJECT. REFER TO ENERGY DRAWINGS FOR ALL ENERGY CODE COMPLIANCE PROGRESS INSPECTIONS REQUIREMENTS FOR PROPOSED BUILDING.

GENERAL NOTES:

- ALL EXISTING INFORMATION SHOWN ON THESE SITE PLANS ARE TAKEN FROM SURVEY DWS, FILE #41550-B, DATED FEBRUARY 4, 2018, PREPARED BY NOLAN O'MARA, LLP, WITH LATEST REVISION DATE OF 07/30/2018.
- ALL PUBLIC SIDEWALKS WITHIN RIGHT-OF-WAY SHALL BE H-1045 TYPE I AND ALL SIDEWALKS WITHIN DRIVEWAYS SHALL BE TYPE II AS SHOWN ON APPROVED BUILDERS PAVEMENT PLAN.
- ALL PROPOSED DROPPED CURBS WITHIN SIDEWALK AREAS ALONG RIGHT-OF-WAY SHALL BE STEEL FACED OR AS SPECIFIED ON APPROVED BUILDERS PAVEMENT PLAN.
- REFER TO DEP CERTIFIED SITE CONNECTION FOR ALL STORM AND SANITARY DISPOSAL CONNECTIONS AS PREPARED BY ROGERS CALVANICO GROUP, PLLC AND APPROVED BY NYC-DEP.
- THE CONTRACTOR IS REFERRED TO THE APPROVED BUILDERS PAVEMENT PLAN (BPP), DOB #54011114 / RP... WHICH DETAILS ALL WORK TO BE DONE WITHIN THE RIGHT-OF-WAY OF TARGEET STREET / DEKALB STREET AND RHINE AVENUE TYPICAL.
- FIRE HYDRANT TO BE LOCATED WITHIN 250 FT. OF A BUILDING ENTRANCE.
- NO CRANE SHALL BE OPERATED ON THIS LOT WITHOUT A "CERTIFICATE OF ON-SITE INSPECTION".
- PROPOSED CONSTRUCTION WILL NOT HAVE ANY EFFECT ON EXISTING STRUCTURES OR SURFACE FACILITIES LOCATED ON ADJACENT LOTS.
- OWNER/BUILDER OF THE REFERENCED PROPERTY STATES THAT WORK DONE UNDER THIS APPLICATION WILL HAVE NO ADVERSE EFFECT ON ANY SURROUNDING PROPERTIES CONCERNING STORM WATER DRAINAGE. HOWEVER, HE WILL BE RESPONSIBLE TO MAKE CERTAIN THAT WHILE THE WORK IS BEING DONE, THE SURROUNDING PROPERTIES WILL BE PROTECTED FROM STORM WATER DRAINAGE.
- FINAL SURVEY TO SHOW GRADES AT ALL POINTS WHERE PROPOSED GRADES ARE SHOWN ON PLAN.
- ALL YARDS WITH SLOPE IN EXCESS OF 3% TO HAVE 500, ALL OTHER YARDS TO BE SEED.
- AT A HEIGHT OF NO MORE THAN TWELVE FEET ABOVE GROUND AND ON EACH PERIMETER OF A CONSTRUCTION SITE FRONTING ON A PUBLIC THOROUGHFARE, A SIGN SHALL BE ERECTED NO MORE THAN TWENTY-FIVE SQUARE FEET IN SIZE WHICH SHALL BEAR IN LETTERS NO LESS THAN SIX INCHES HIGH, THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE OWNER OF THE PROPERTY, AND THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE GENERAL CONTRACTOR.
- THIS IS TO CERTIFY THAT THERE ARE NO STREAMS NOR NATURAL WATER COURSES ON THIS PROPERTY.

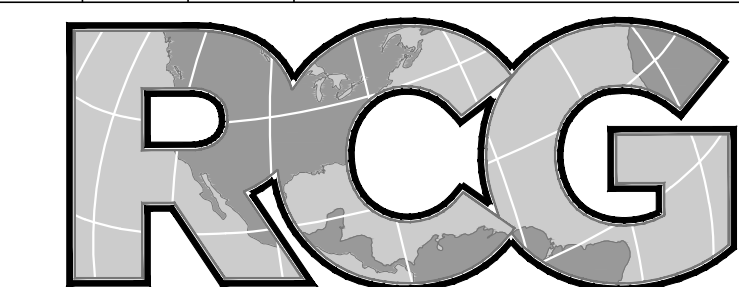
APPLICATIONS FILED SEPARATELY

CURB CUT (TARGEET STREET)	-	500-----
CURB CUT (RHINE AVENUE)	-	500-----
CONSTRUCTION FENCE	-	500-----
PLUMBING (PL) WORK TYPE	-	500-----
MECHANICAL (MH) WORK TYPE	-	500-----
STRUCTURAL (ST) WORK TYPE	-	500-----
BUILDER'S PAVEMENT PLAN	-	54011114
SITE CONNECTION (DEP)	-	SCP -----

LEGEND

X (123.45)	EXISTING SPOT ELEVATION
X (123.45)	FORMER EX. SPOT ELEVATION
X 10(123.45)	EX. TOP OF CURB ELEVATION
X 80(122.95)	EX. BOTTOM OF CURB ELEVATION
X 10(123.45)	EX. TOP OF WALL ELEVATION
X 80(122.95)	EX. BOTTOM OF WALL ELEVATION
TC (123.45)	PROPOSED TOP OF CURB ELEVATION
BC (122.95)	PROPOSED BOTTOM OF CURB ELEVATION
TH (123.45)	PROPOSED TOP OF WALL ELEVATION
BW (122.95)	PROPOSED BOTTOM OF WALL ELEVATION
EX. FIRE HYDRANT	
EX. WATER VALVE	
EX. OVERHEAD WIRES	
EX. TREE PRESERVED	
EX. SIDEWALK TREE PRESERVED	
PROPOSED SIDEWALK TREE WITHIN NYCDPR APPROVED TREE PIT	
PROPOSED ON-SITE TREE PLANTING	
PROPOSED SHRUB PLANTING	
PROPOSED GROUNDCOVER PLANTING	
EX. UTILITY POLE / LIGHT POLE	
EX. TRAFFIC LIGHT	
EX. RETAINING / CURB WALL	
PROPOSED RETAINING WALL	
EX. STREET SIGN	
LIGHT POLE FIXTURE - SEE PLAN FOR NUMBER OF FIXTURES	
BUILDING ENTRANCE/S	

NOT FOR CONSTRUCTION
SUBJECT TO APPROVALS BY
DEPARTMENT OF BUILDINGS



ROGERS CALVANICO GROUP
ARCHITECTURAL, ENGINEERING & LAND SURVEYING

2420 ARTHUR KILL ROAD STATEN ISLAND, N.Y. 10309
(718) 494-0444 / (718) 317-6900

DOB-NOW JOB NO.

PROJECT

TARGEET PLAZA
TARGEET ST./DEKALB ST./RHINE AVE., STATEN ISLAND, N.Y. 10304

DRAWING TITLE

SITE PLAN

SEAL & SIGNATURE

DATE 07/05/2020

PROJECT NO. 8100

DRAWING BY GD

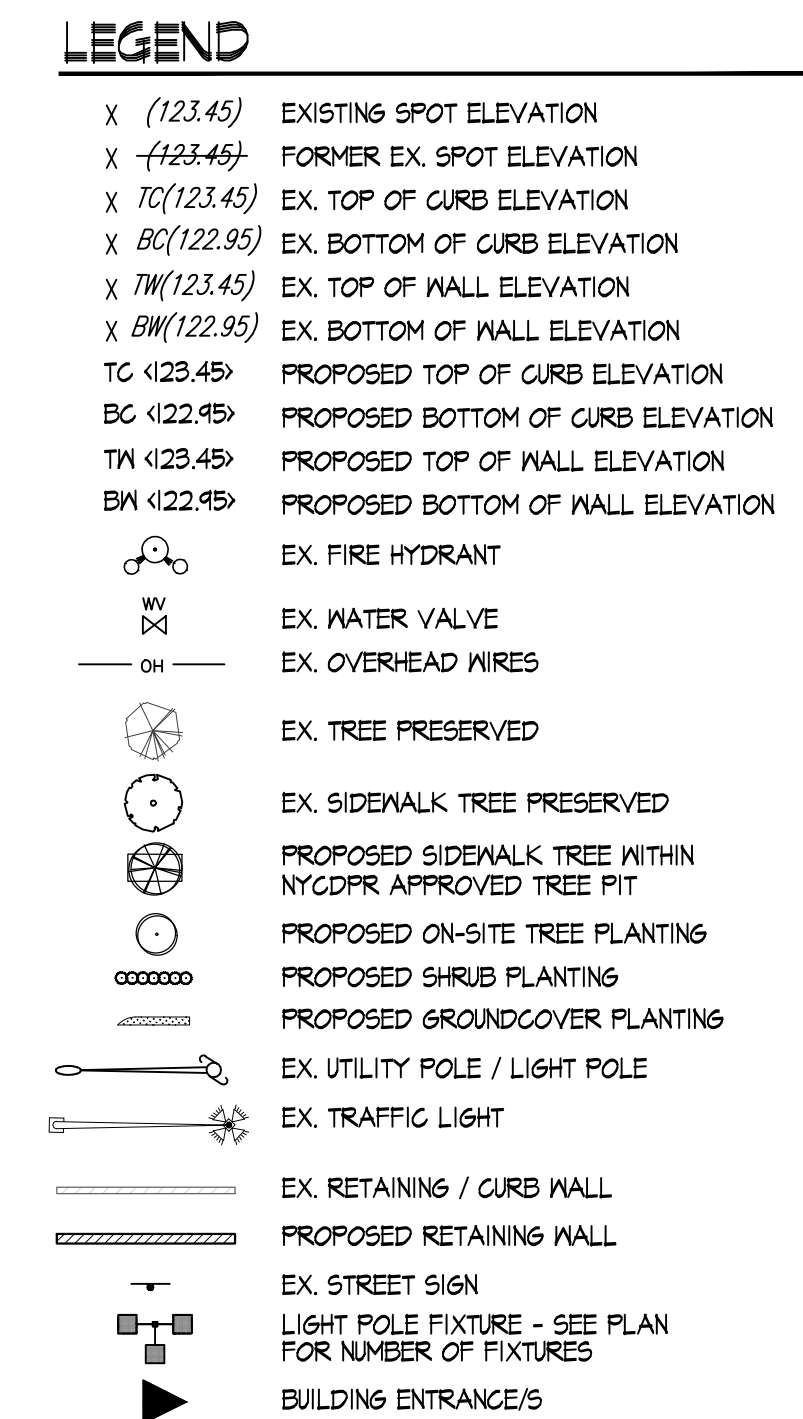
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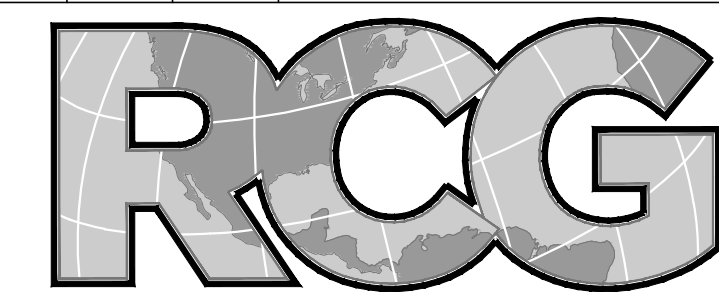
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8100 SITE-CIVIL-070520



---	08/07/20	GD	REVISE HOUSE TRAP LOCATION
REVISION	DATE	BY	DESCRIPTION



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2420 ARTHUR KILL ROAD STATEN ISLAND, N.Y. 10309
(718) 494-0444 / (718) 317-6900

DOB-NOW JOB No

PROJECT

TARGEET PLAZA
TARGEET ST./DEKALB ST./RHINE AVE., STATEN ISLAND, N.Y. 103

DRAWING TITLE

SITE DEMO / TREE REMOVAL PLAN

SEAL & SIGNATURE

DATE	07/05/202
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PROJECT NO.	81
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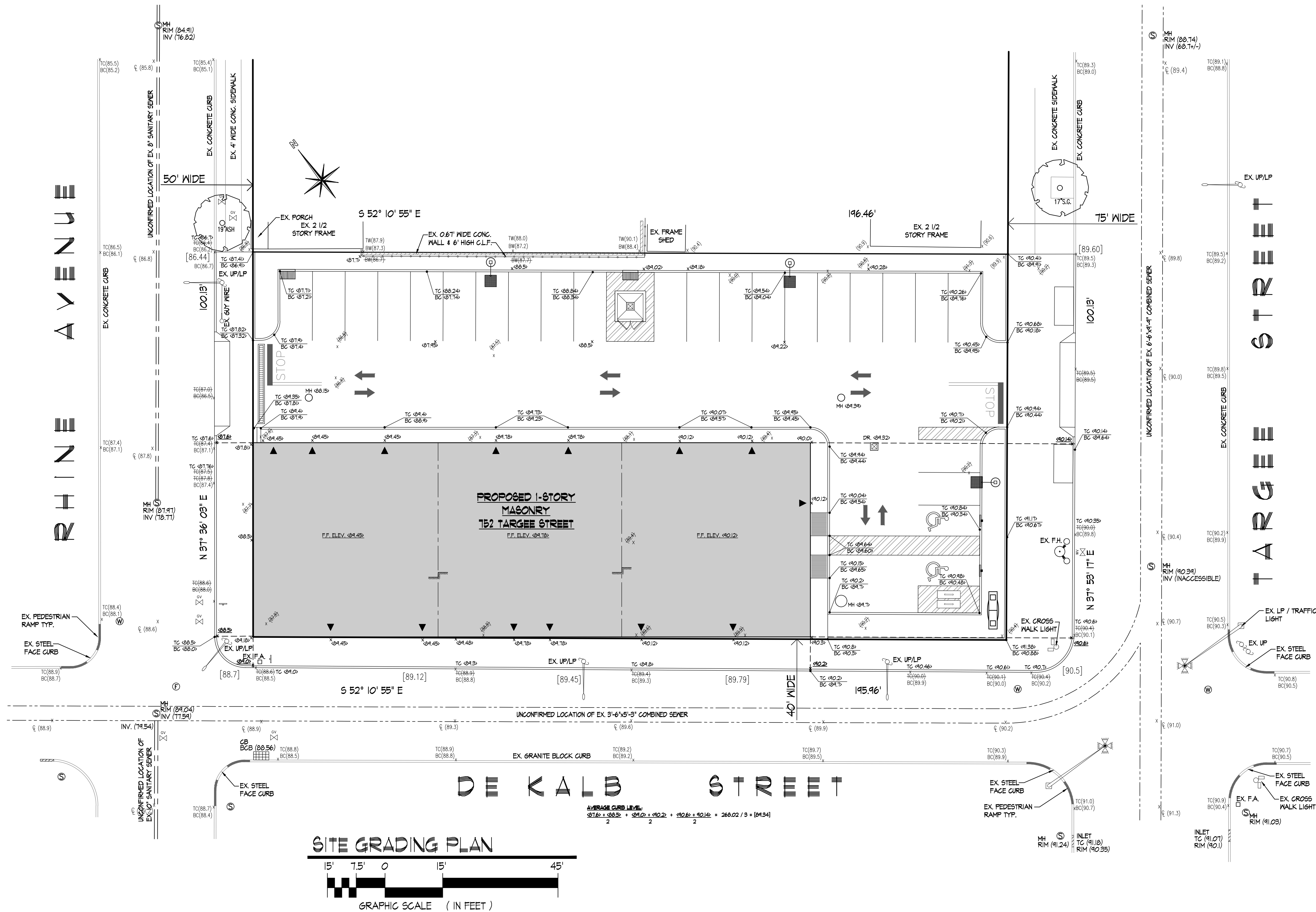
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CAD FILE N:

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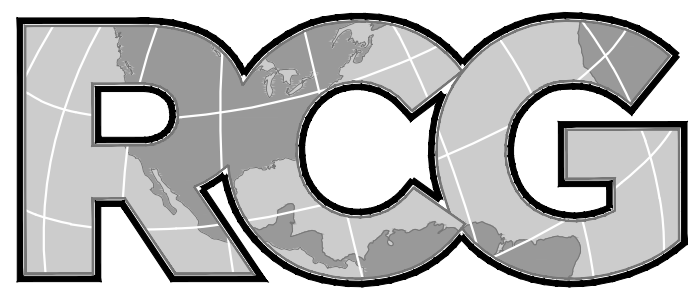
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LEGEND

- X (123.45) EXISTING SPOT ELEVATION
- X ~~(123.45)~~ FORMER EX. SPOT ELEVATION
- X TC(123.45) EX. TOP OF CURB ELEVATION
- X BC(122.95) EX. BOTTOM OF CURB ELEVATION
- X TW(123.45) EX. TOP OF WALL ELEVATION
- X BW(122.95) EX. BOTTOM OF WALL ELEVATION
- TC <123.45> PROPOSED TOP OF CURB ELEVATION
- BC <122.95> PROPOSED BOTTOM OF CURB ELEVATION
- TW <123.45> PROPOSED TOP OF WALL ELEVATION
- BW <122.95> PROPOSED BOTTOM OF WALL ELEVATION
- EX. FIRE HYDRANT
- EX. WATER VALVE
- EX. OVERHEAD WIRES
- EX. TREE PRESERVED
- EX. SIDEWALK TREE PRESERVED
- PROPOSED SIDEWALK TREE WITHIN NYCDPR APPROVED TREE PIT
- PROPOSED ON-SITE TREE PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED GROUND COVER PLANTING
- EX. UTILITY POLE / LIGHT POLE
- EX. TRAFFIC LIGHT
- EX. RETAINING / CURB WALL
- PROPOSED RETAINING WALL
- EX. STREET SIGN
- LIGHT POLE FIXTURE - SEE PLAN FOR NUMBER OF FIXTURES
- BUILDING ENTRANCE/S

REVISION	DATE	BY	DESCRIPTION
---	08/07/20	GD	REVISE HOUSE TRAP LOCATION



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2420 ARTHUR KILL ROAD STATEN ISLAND, N.Y. 10309
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DOB-NOW JOB No.

PROJECT

TARGEER PLAZA
TARGEER ST./DEKALB ST./RHINE AVE., STATEN ISLAND, N.Y. 10304

DRAWING TITLE

SITE GRADING PLAN

SEAL & SIGNATURE

DATE 07/05/2020

PROJECT NO. 8100

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DRAWING NO.

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CAD FILE No: 0 OF 00
8100 SITE-CIVIL-070520

NOT FOR CONSTRUCTION
SUBJECT TO APPROVALS BY
DEPARTMENT OF BUILDINGS

KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE	ROOT
PERIMETER TREES (IN COMPLIANCE WITH SECTION 37-421 ZR)					
CV	4	CRATAEGUS VIRIDIS	GREEN HAWTHORN	2-2 1/2" CALIPER	B & B
PERIMETER SCREENING (IN ACCORDANCE WITH SECTION 37-421 ZR)					
CD	54	COTONEASTER DAMMERI	BEARBERRY COTONEASTER	3' MAX. HT. @ 2' o.c.	B & B
SCREENING (IN COMPLIANCE WITH SECTION 36-56 ZR)					
IC	450	ILEX GRENATA	JAPANESE HOLLY	4' MIN. HT. @ 2' o.c.	B & B
GROUND COVER (IN ACCORDANCE WITH SECTION 37-421 AND 37-422 ZR)					
GS	V.I.F.	CORTADERIA SELLOANA 'PUMILLAD'	WARF POMPAS GRASS	12" TO 16" EACH	3 GALLON

1. ALL PLANT MATERIALS SHALL BE TRUE TO GENUS, SPECIES AND VARIETY AND CERTIFIED BY GROWER TO BE FREE FROM INSECT INFESTATION AND / OR DISEASE.
2. ALL PLANT MATERIAL SHALL BE REPRESENTATIVE OF THEIR SPECIES IN GROWTH HABIT AND FLOWERING CHARACTERISTICS. BROKEN BRANCHES OR OTHERWISE DAMAGED PLANT MATERIALS WILL BE REJECTED.
3. ALL TREES OVER 10 FEET IN HEIGHT SHALL BE STAKED AND GUYED IN ACCORDANCE WITH NYC DEPARTMENT OF PARKS AND RECREATION GUIDELINES.
4. ALL PLANTING AREAS SHALL RECEIVE A MINIMUM 3 INCH OF ROOT MULCH.
5. ALL PLANT MATERIAL IS TO BE INSTALLED IN ACCORDANCE WITH NYC DEPARTMENT OF PARKS AND RECREATION SPECIFICATIONS AND CURRENT GUIDELINES.
6. ANY OVERHANGING TREE LIMBS FROM ADJACENT PROPERTIES SHALL BE TRIMMED AND REMOVED. OVERHANGING TREE LIMBS FROM ANY STREET TREES WHICH REQUIRE TRIMMING SHALL OBTAIN APPROVAL FROM NYC DEPARTMENT OF PARKS AND RECREATION.
7. GENERAL CONTRACTOR WILL CONTACT NYC PARKS IF ANY UNDERGROUND INFRASTRUCTURE (GAS/WATER/ELECTRIC ETC) AFFECTS ANT PROPOSED AND/OR EXISTING TREES ON THE SITE. GENERAL CONTRACTOR IS AWARE THAT ANY WORK DONE ON OR NEAR A CITY TREE REQUIRES A PERMIT FROM NYC PARKS. THIS INCLUDES UTILITY, SIDEWALK PRUNING OR ANY OTHER WORK WITHIN THE DROP LINE OF A TREE WITHIN THE HEIGHT OF THE GENERAL CONTRACTOR OR ANY SUBCONTRACTOR.
8. GENERAL CONTRACTOR WILL FOLLOW NYC PARKS PLANTING & FORESTRY SPECIFICATIONS. UTILITIES MAY NOT BE LABELED, IF UNKNOWN, THE GENERAL CONTRACTOR MUST AMEND PLAN WITH NYC PARKS IN THE FUTURE.
9. ALL PIT SIZES INDICATED ARE TO BE FULLY EXCAVATED TO THE DIMENSIONS LABELLED AND REPLACED WITH NEW TOPSOIL TO NYC PARKS STANDARDS.



1. ALL MATERIALS AND CONSTRUCTION METHODS USED ARE TO CONFORM TO SECTION #4.16 OF THE BUREAU OF HIGHWAY OPERATIONS SPECIFICATIONS, LATEST EDITION.
2. PRIOR TO THE START OF WORK, THE GENERAL CONTRACTOR SHALL OBTAIN THE NECESSARY PERMIT/S FROM THE NYC DEPARTMENT OF PARKS AND RECREATION FOR THE REMOVAL AND PLANTING OF TREES.
3. TREE PITS SHOULD BE LOCATED TWO (2) FEET MINIMUM FROM GAS, OIL OR WATER VALVE BOXES.
4. TREE STAKES ARE TO BE REMOVED BY THE TREE SUB-CONTRACTOR NOT LESS THAN ONE YEAR AFTER PLANTING OF SAID TREES AND PRIOR TO THE FINAL ACCEPTANCE OF THE WORK.
5. USE OF SIDEWALK PAVEMENT MATERIALS OTHER THAN GRANIT BLOCK MUST BE SPECIFICALLY APPROVED, IN WRITING, BY THE BUREAU OF HIGHWAY OPERATIONS.
6. GRANIT BLOCK IN TREE PIT SHALL BE PAID FOR UNDER ITEM #6.06 OF THE BUREAU OF HIGHWAY OPERATIONS SPECIFICATIONS, LATEST EDITION.
7. NO TREE TRUNKS SHALL BE WRAPPED, REMOVE ALL NURSERY TAGS AND PROTECTIVE WRAPPING.
8. BARK MULCH SHALL BE APPLIED AS A GROUND COVER TO THE SURFACE OF ALL PLANTING BEDS AT THE TIME OF PLANTING AND AGAIN AFTER TREE STAKES HAVE BEEN REMOVED, ONE YEAR AFTER PLANTING. BARK CHIP MULCH SHALL BE NATURAL FOREST PRODUCT OF 90% BARK CONTAINING LESS THAN 2% MOOD OR OTHER DEBRIS. BARK TYPE AS SPECIFIED BY NYCDPR. SIZE OF BARK CHIPS SHALL BE FROM 5/8" TO 1 1/4".

NOT TO SCALE



X (123.45)	EXISTING SPOT ELEVATION
X (123.45)	FORMER EX. SPOT ELEVATION
X 10(123.45)	EXIST. TOP OF CURB ELEVATION
X BC(122.95)	EX. BOTTOM OF CURB ELEVATION
X TW(123.45)	EX. TOP OF WALL ELEVATION
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BW (122.95)	PROPOSED BOTTOM OF WALL ELEVATION
	EX. FIRE HYDRANT
	EX. WATER VALVE
	EX. OVERHEAD WIRES
	EX. TREE PRESERVED
	EX. SIDEWALK TREE PRESERVED
	PROPOSED SIDEWALK TREE WITHIN NCDPR APPROVED TREE PIT
	PROPOSED ON-SITE TREE PLANTING
	PROPOSED SHRUB PLANTING
	PROPOSED GROUNDCOVER PLANTING
	EX. UTILITY POLE / LIGHT POLE
	EX. TRAFFIC LIGHT
	EX. RETAINING / CURB WALL
	PROPOSED RETAINING WALL
	EX. STREET SIGN
	LIGHT POLE FIXTURE - SEE PLAN FOR NUMBER OF FIXTURES
	BUILDING ENTRANCE/S



DOB-NOW JOB No.

PROJECT

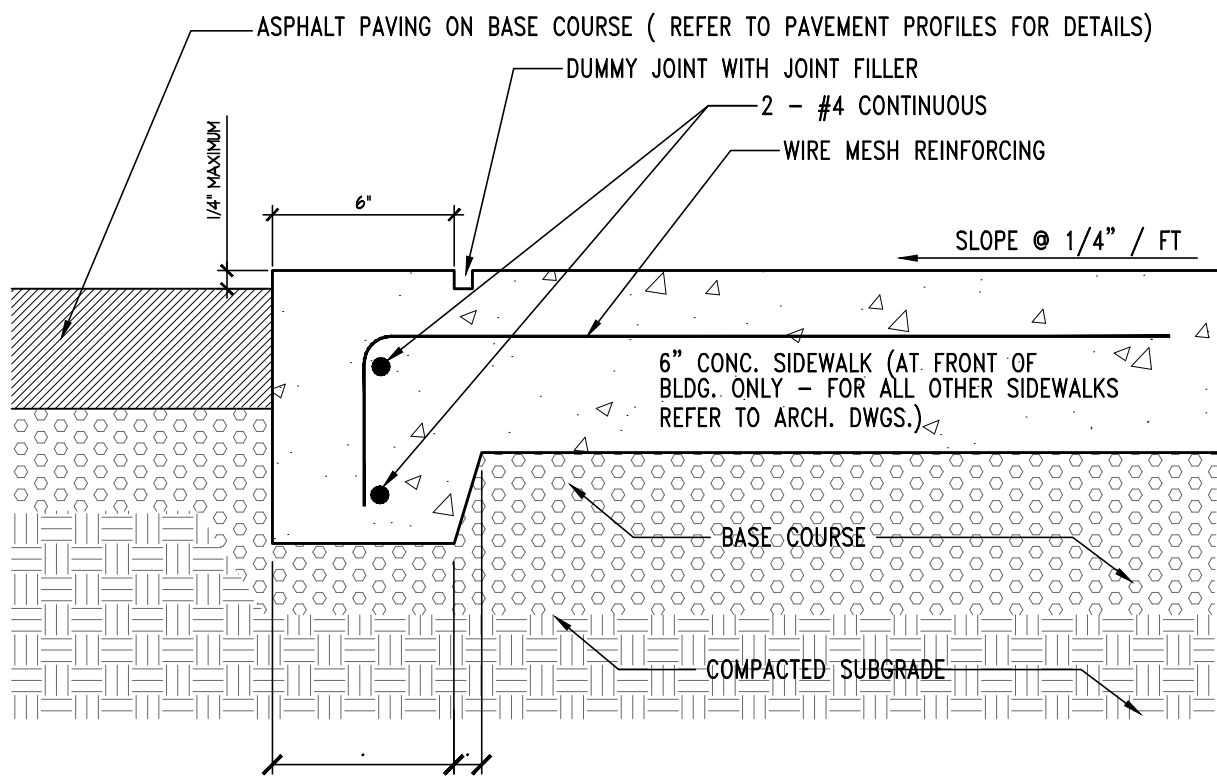
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SEAL & SIGNATURE

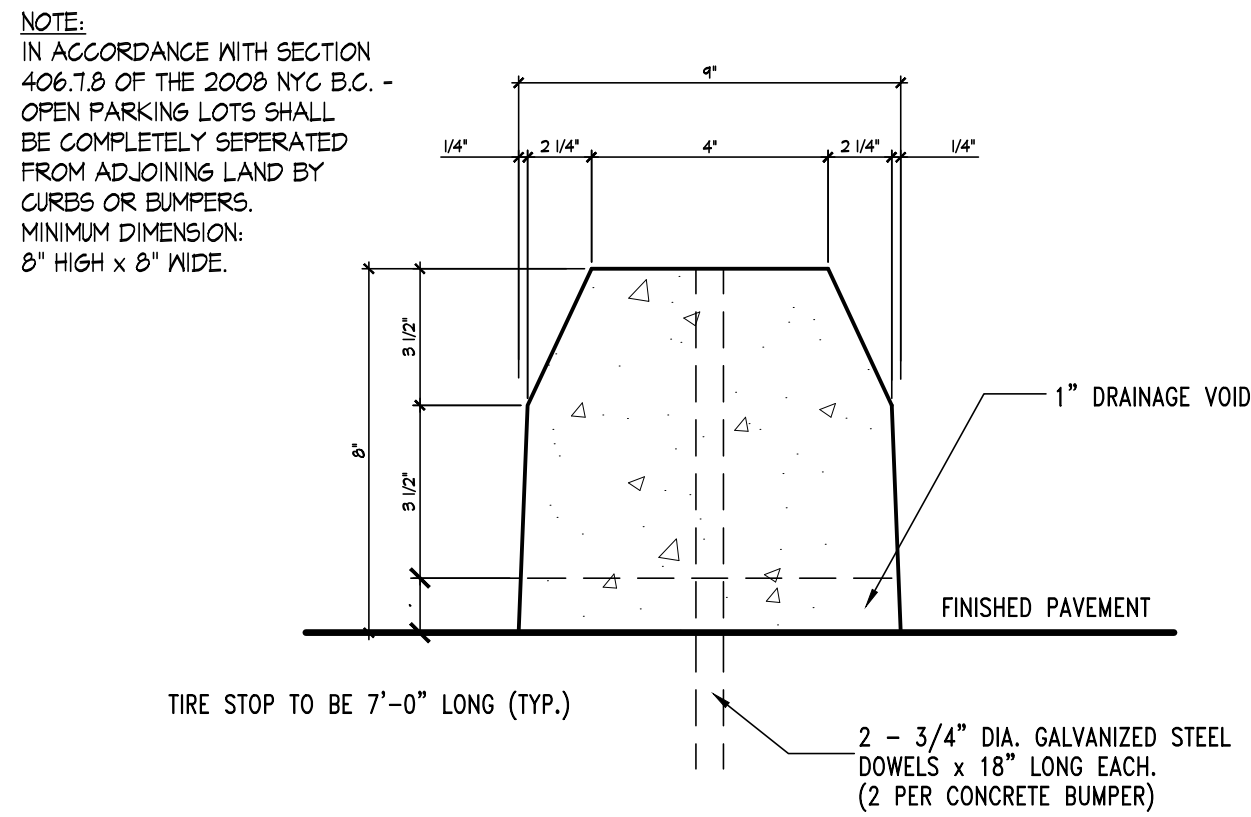
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PROJECT NO.	8100
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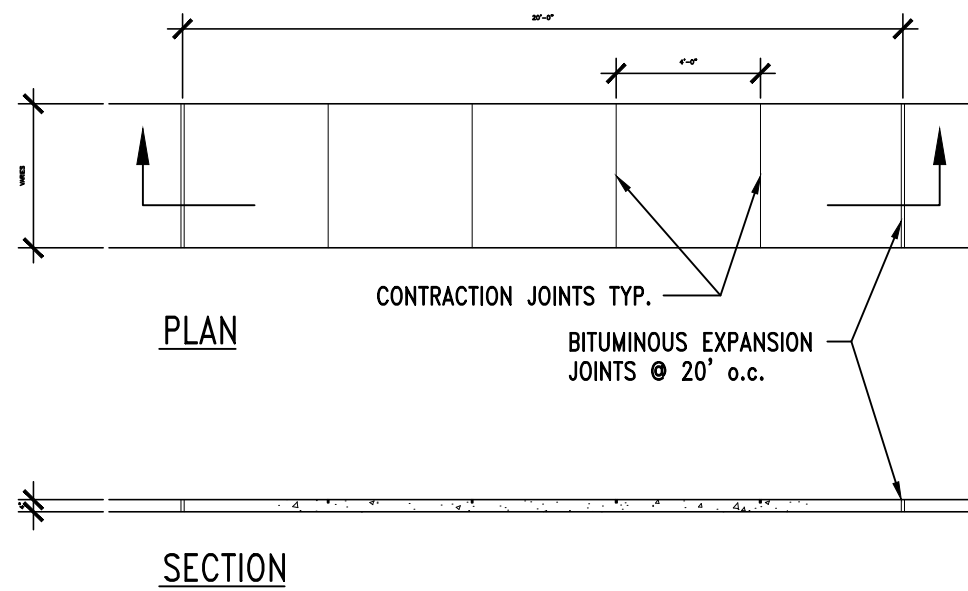
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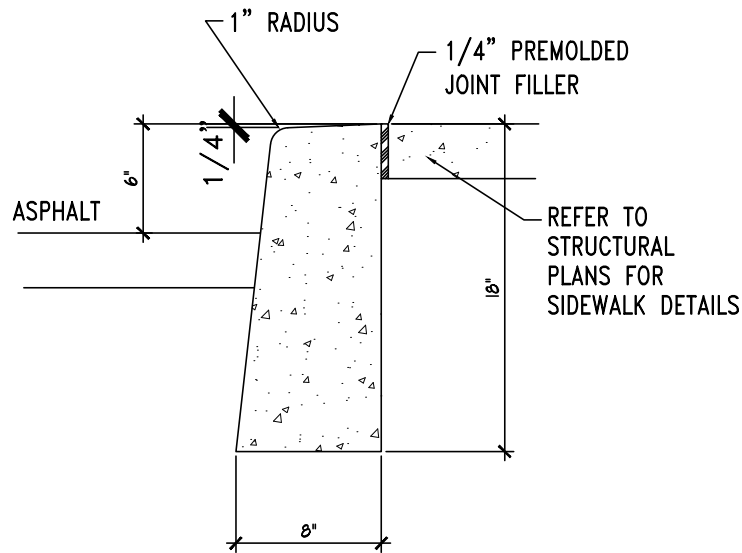
1 FLUSHED CURB DETAIL



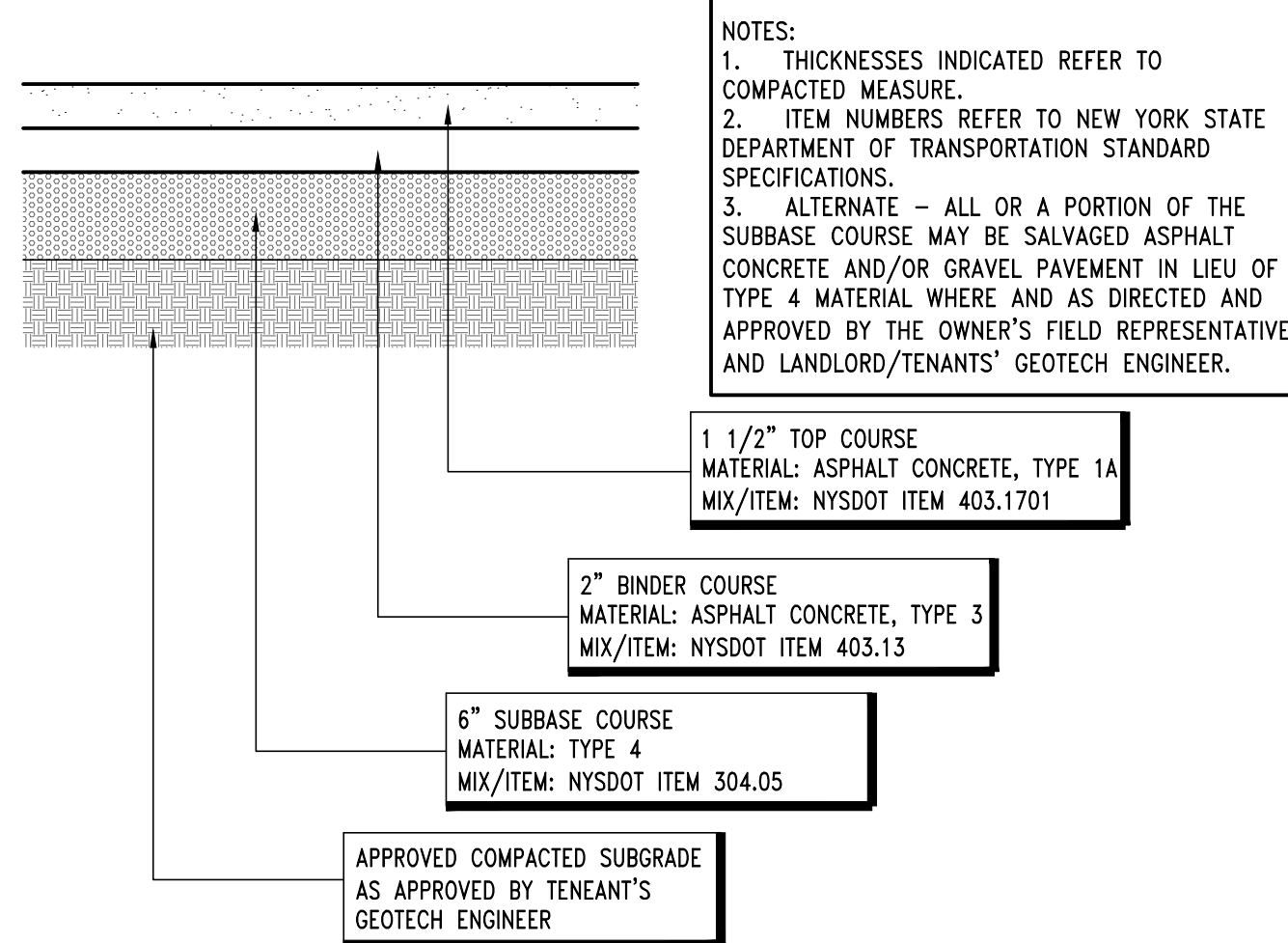
2 CONCRETE TIRE STOP DETAIL



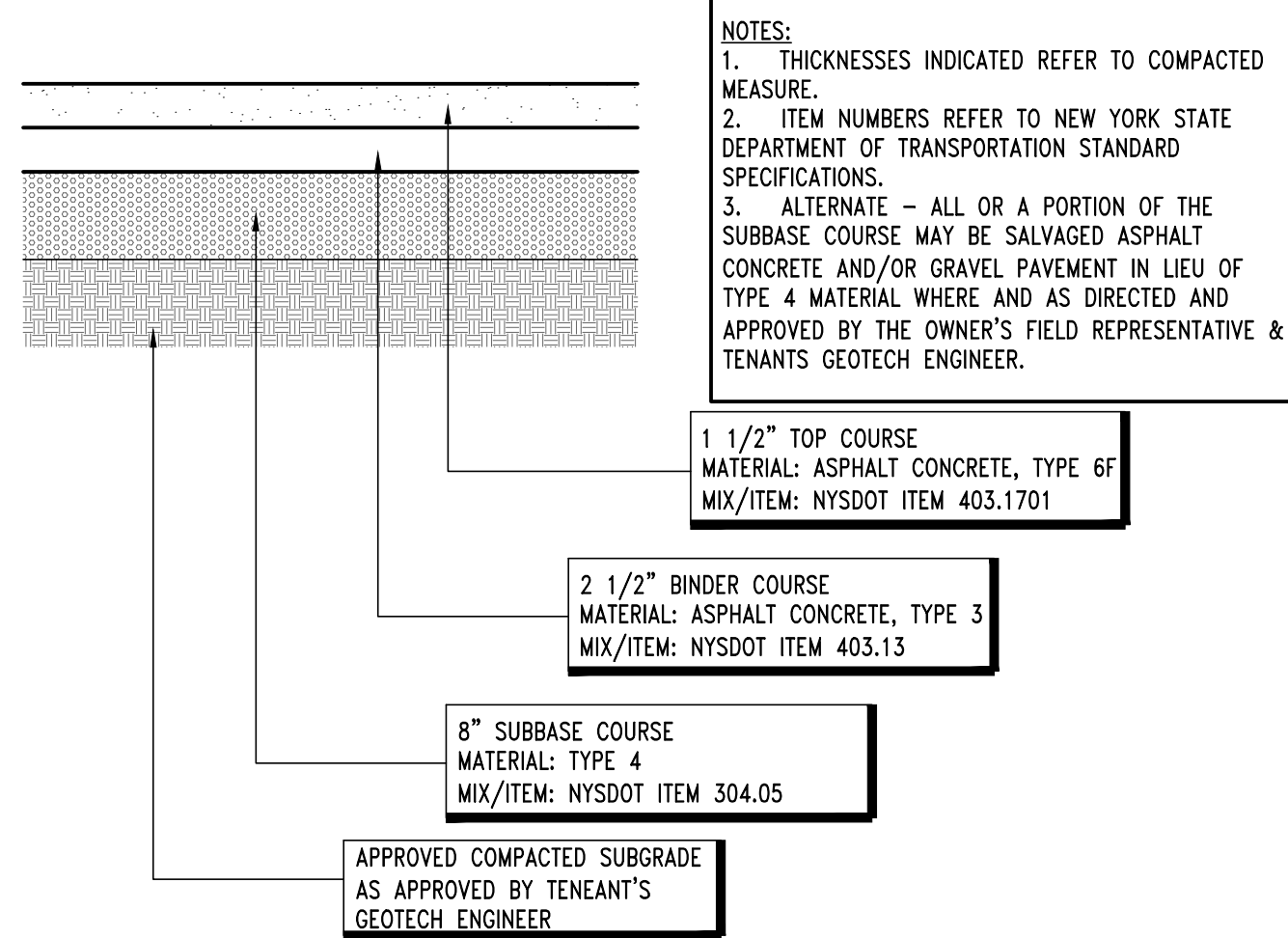
3 TYPICAL CONCRETE SIDEWALK DETAIL



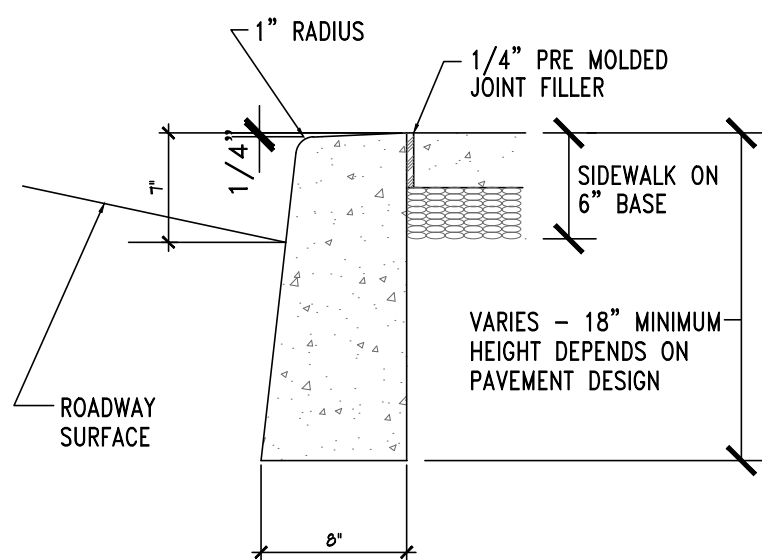
4 6" CURB DETAIL



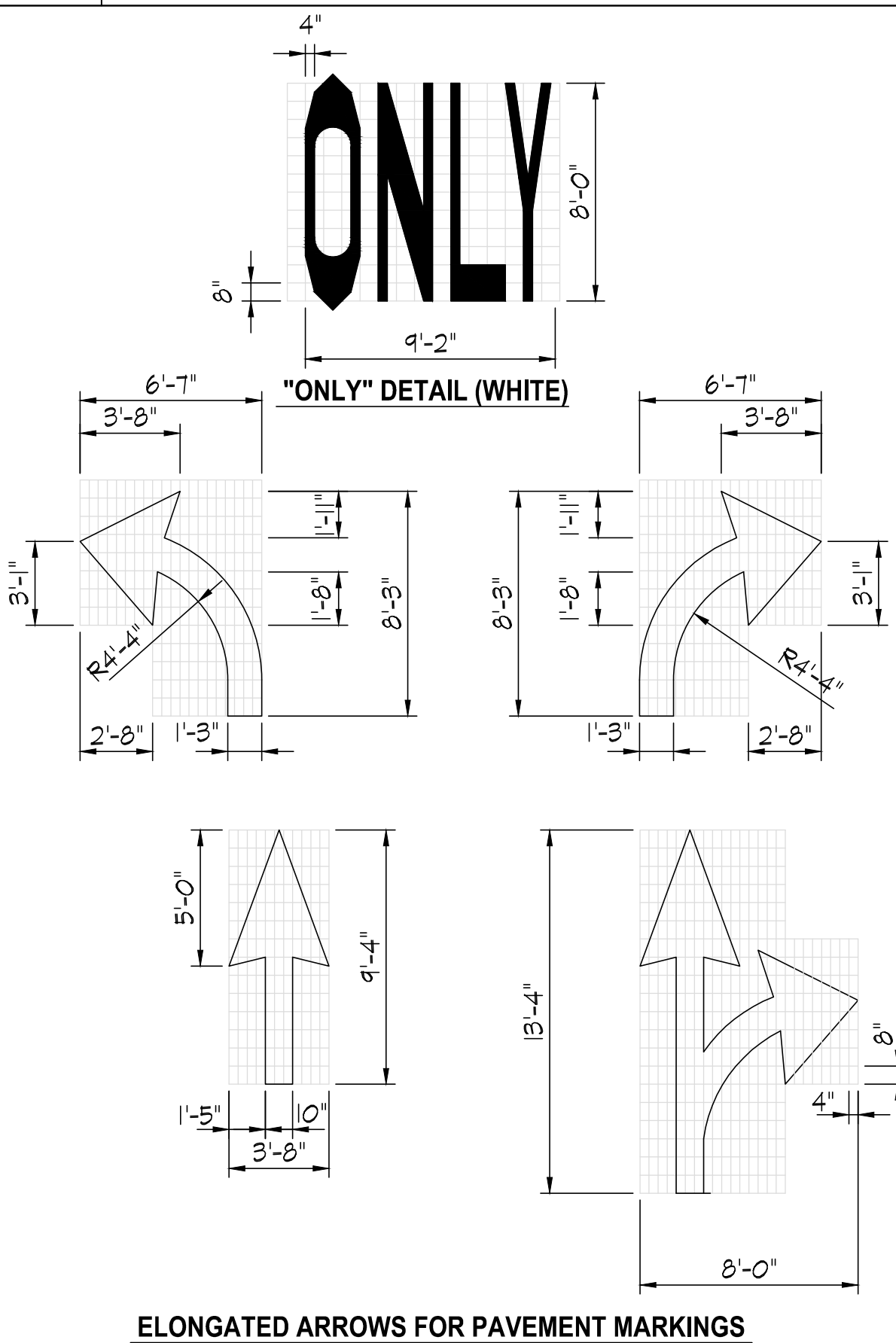
5 PARKING AREA PAVEMENT PROFILE



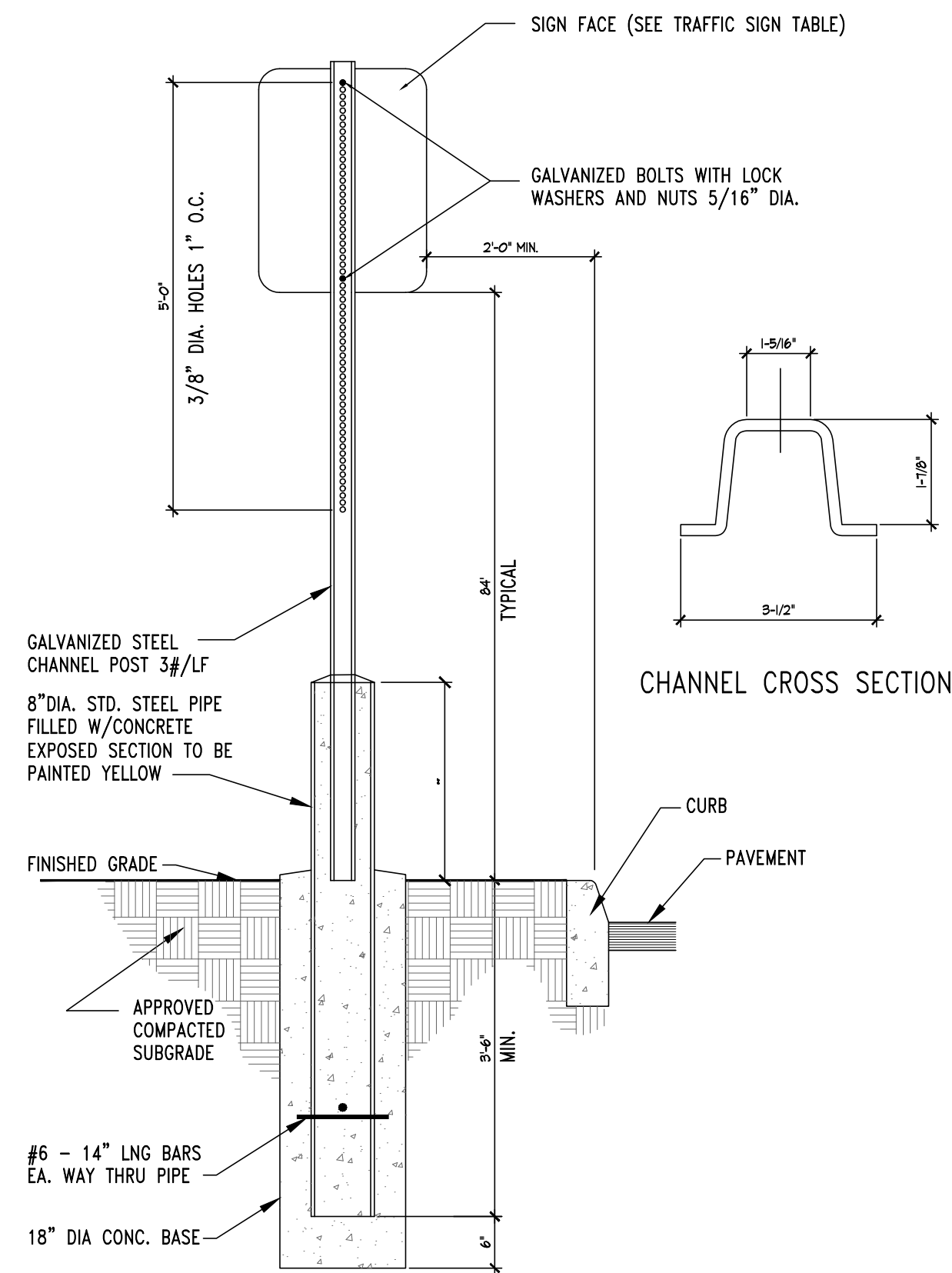
6 HEAVY DUTY PAVEMENT (PROVIDE ONLY AS SHOWN ON SITE PLAN)



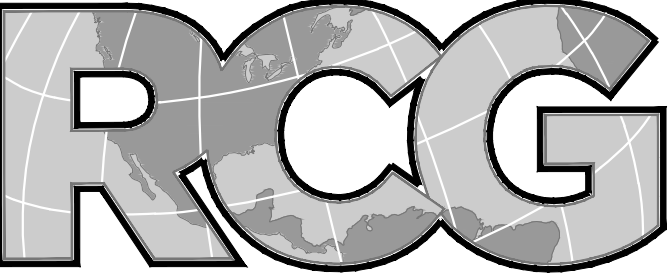
7 CONCRETE CURB (H-1044) (WITHIN CITY ROW.)



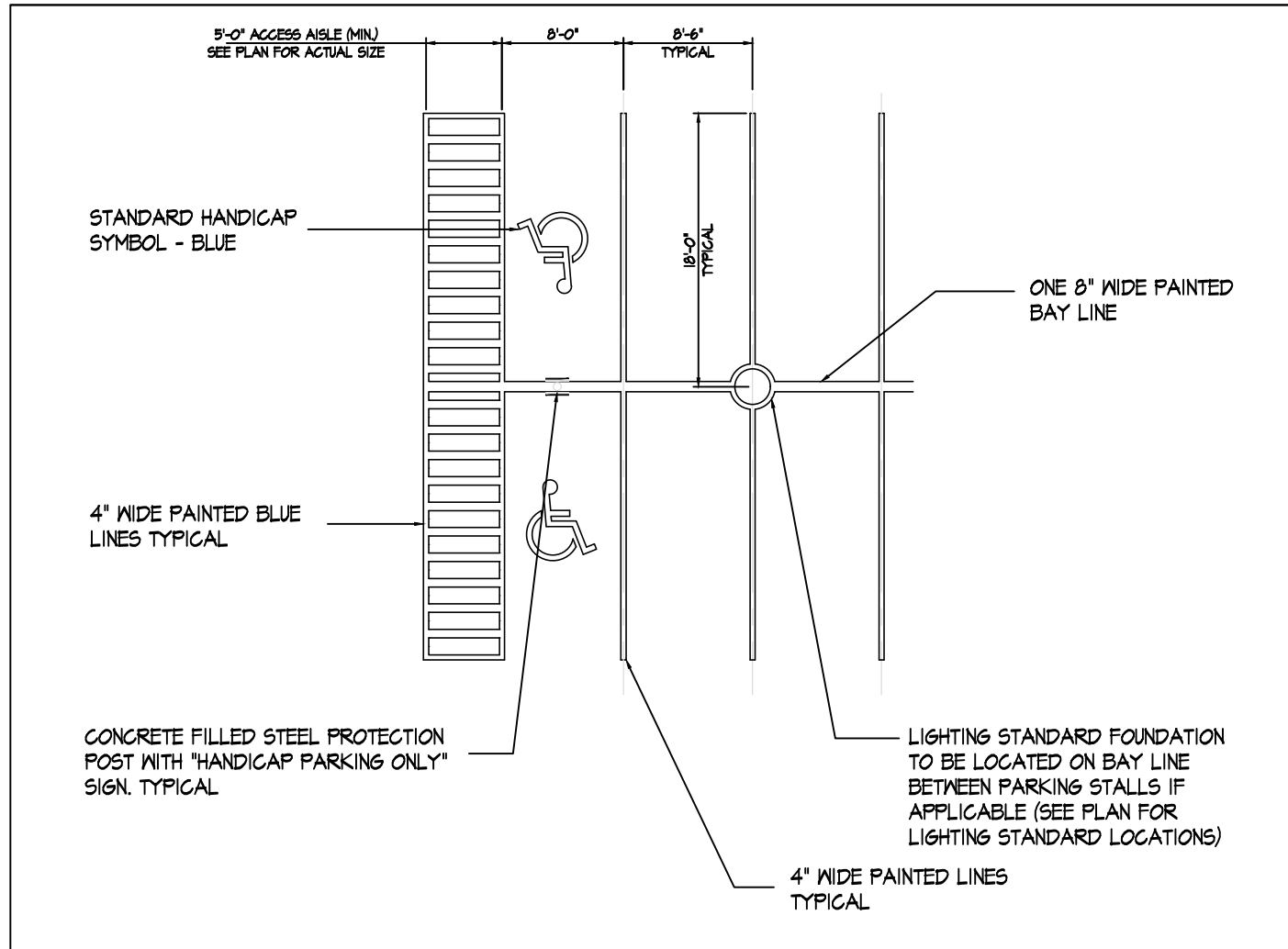
8 PAVEMENT TEXT AND ARROW DETAILS



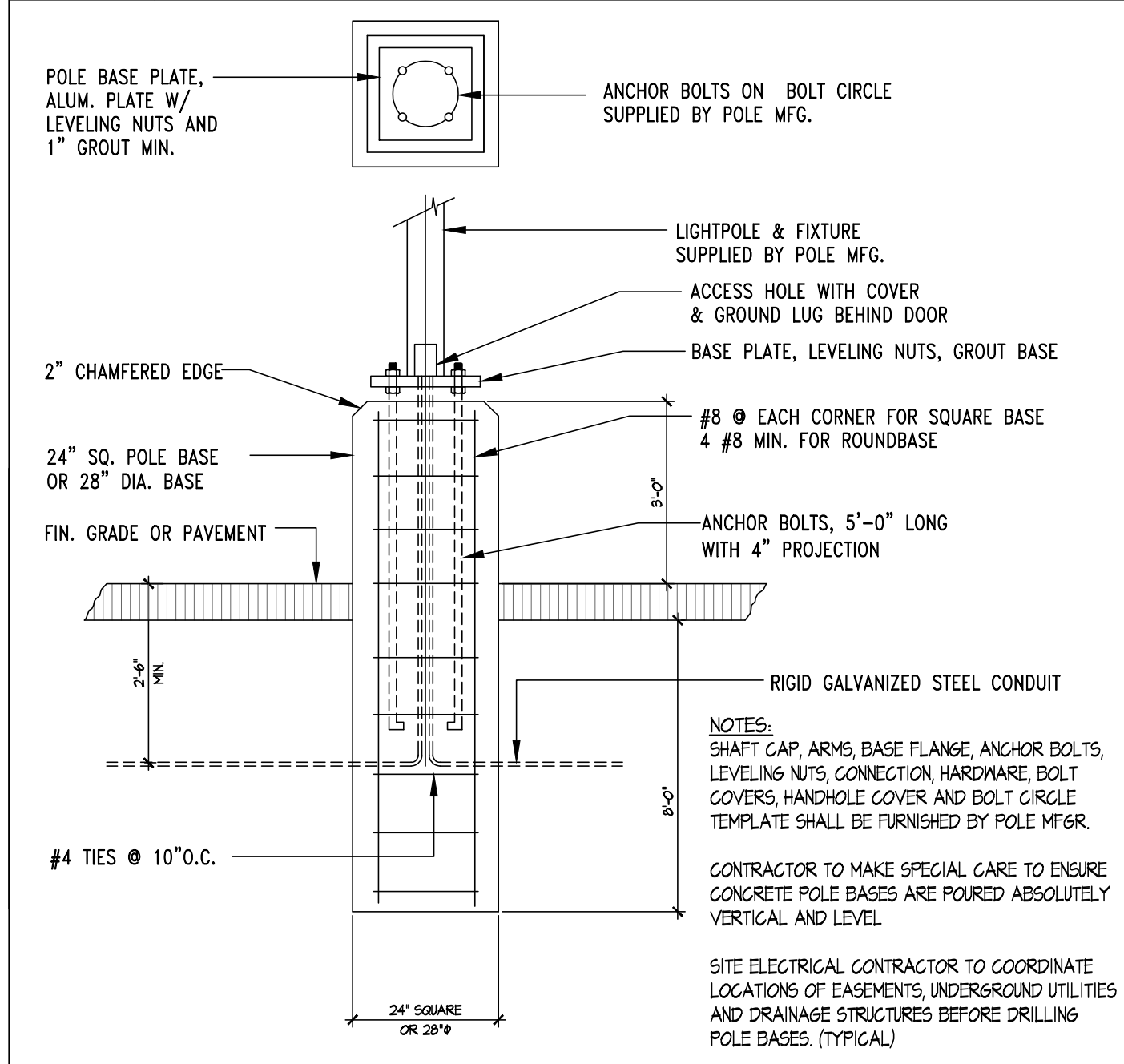
9 TRAFFIC SIGN POST DETAIL

REVISION	DATE	BY	DESCRIPTION
 ROGERS CALVANICO GROUP ARCHITECTURAL, ENGINEERING & LAND SURVEYING 2420 ARTHUR KILL ROAD STATEN ISLAND, N.Y. 10309 (718) 494-0444 / (718) 317-6900 CONTRACTOR SHALL NOTIFY ENGINEER / ARCHITECT AT ONCE, OF ANY DISCREPANCIES NOTED IN THESE CONTRACT DOCUMENTS AS THEY RELATE TO ACTUAL FIELD CONDITIONS PRIOR TO CONTINUATION OF ANY WORK. VERIFY ALL DIMENSIONS IN FIELD. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. ALL DIMENSIONS ARE FINISH TO FINISH, UNLESS NOTED OTHERWISE. THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE COPYRIGHTED. THESE PLANS ARE ALSO THE PROPERTY OF ROGERS CALVANICO GROUP P.L.L.C. ANY INFRINGEMENTS OR UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED. DOB-NOW JOB No. PROJECT TARGEE PLAZA TARGEE ST./DEKALB ST./RHINE AVE., STATEN ISLAND, N.Y. 10304 DRAWING TITLE SITE CIVIL DETAILS SEAL & SIGNATURE DATE 07/05/2020 PROJECT NO. 8100 DRAWING BY GD CHECKED BY DRAWING NO. C=005.00 CAD FILE No: 0 OF 00 F:\CAD\8100\Site CIVIL DETAILS_070520			

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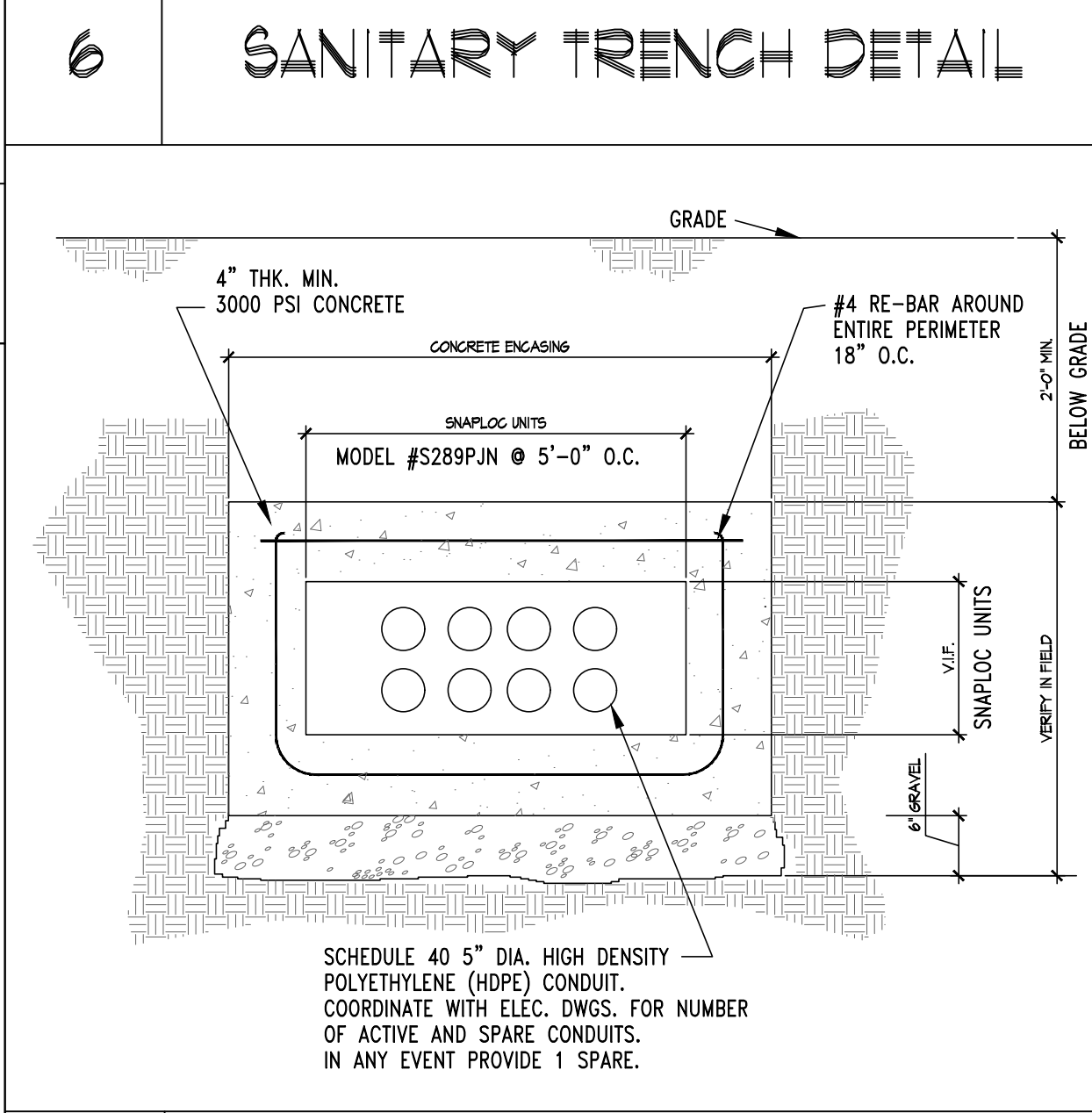
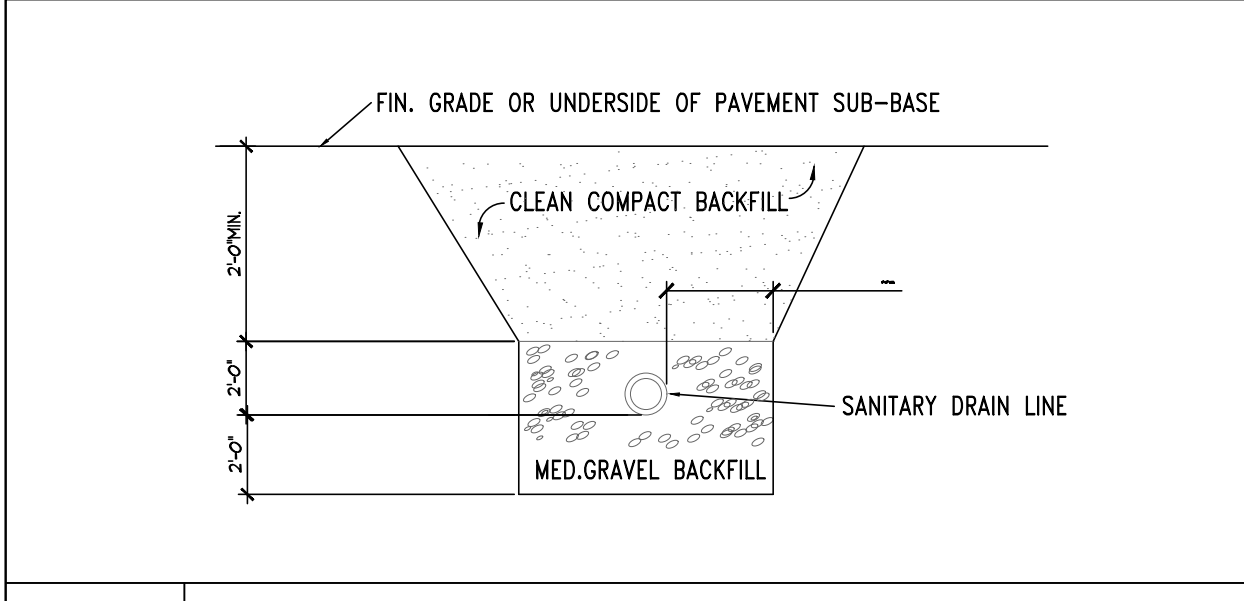
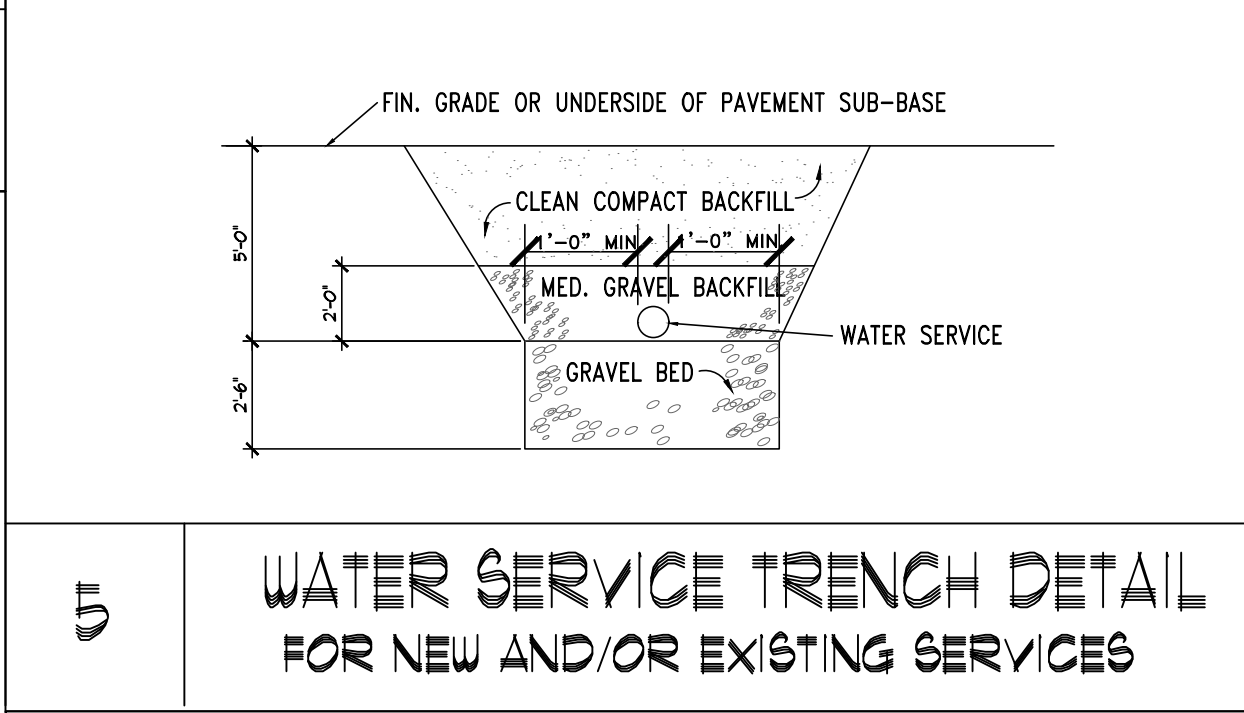
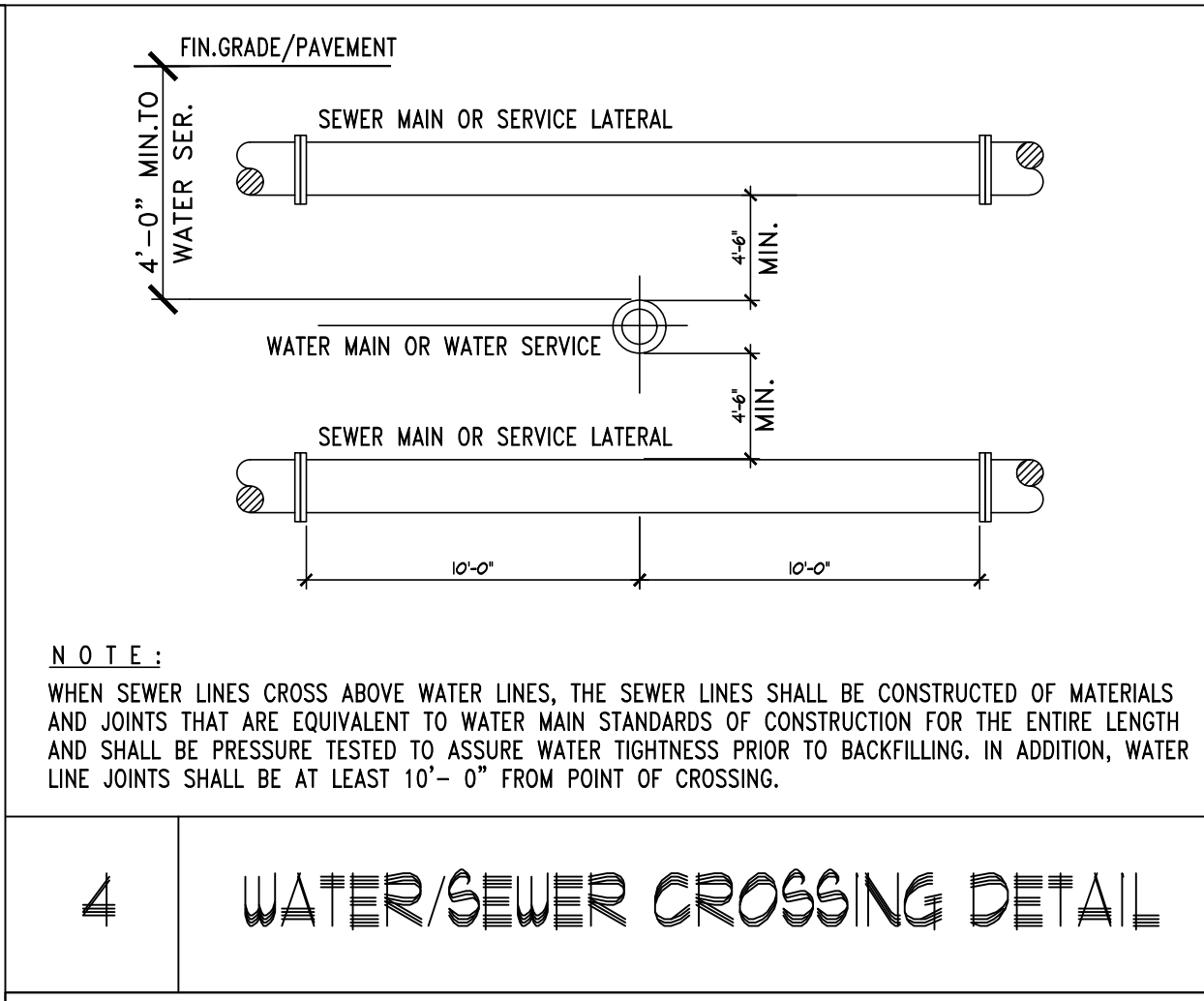
1 PARKING / HANDICAP STALL DETAIL



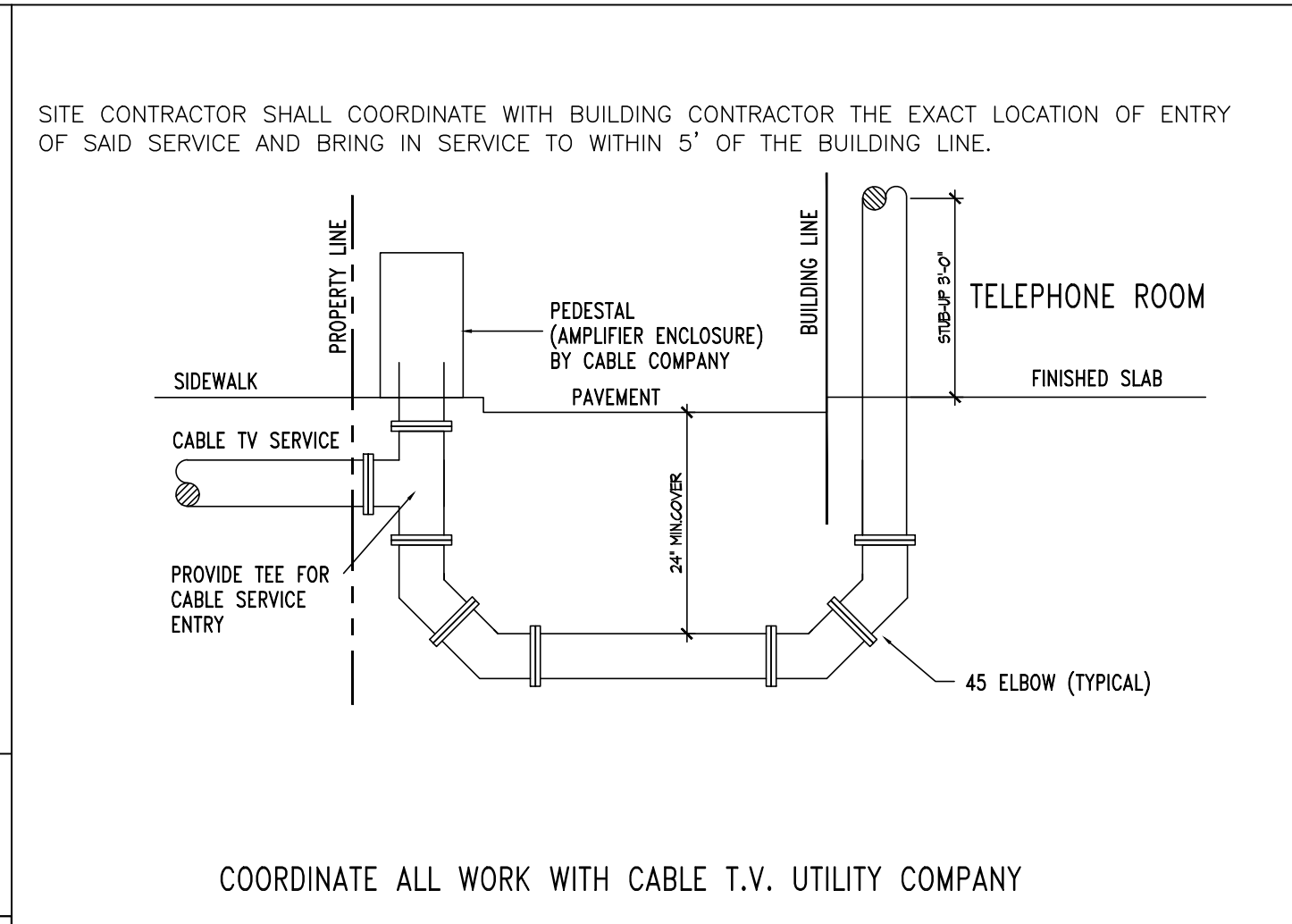
2 TYP. POLE BASE DETAIL ON GRADE/ PAVEMENT

SIGN TABLE						
NUMBER	SIGN	SIZE	DESCRIPTION	MOUNTING TYPE	MOUNTING HEIGHT	REGULATORY
1		30"x30"	WHITE ON RED	STEEL CHANNEL	7'-0"	-
2		12"x18"	BLUE ON WHITE	STEEL CHANNEL	7'-0"	P4-6C
3		30"x30"	WHITE ON RED	STEEL CHANNEL	7'-0"	R1-1C

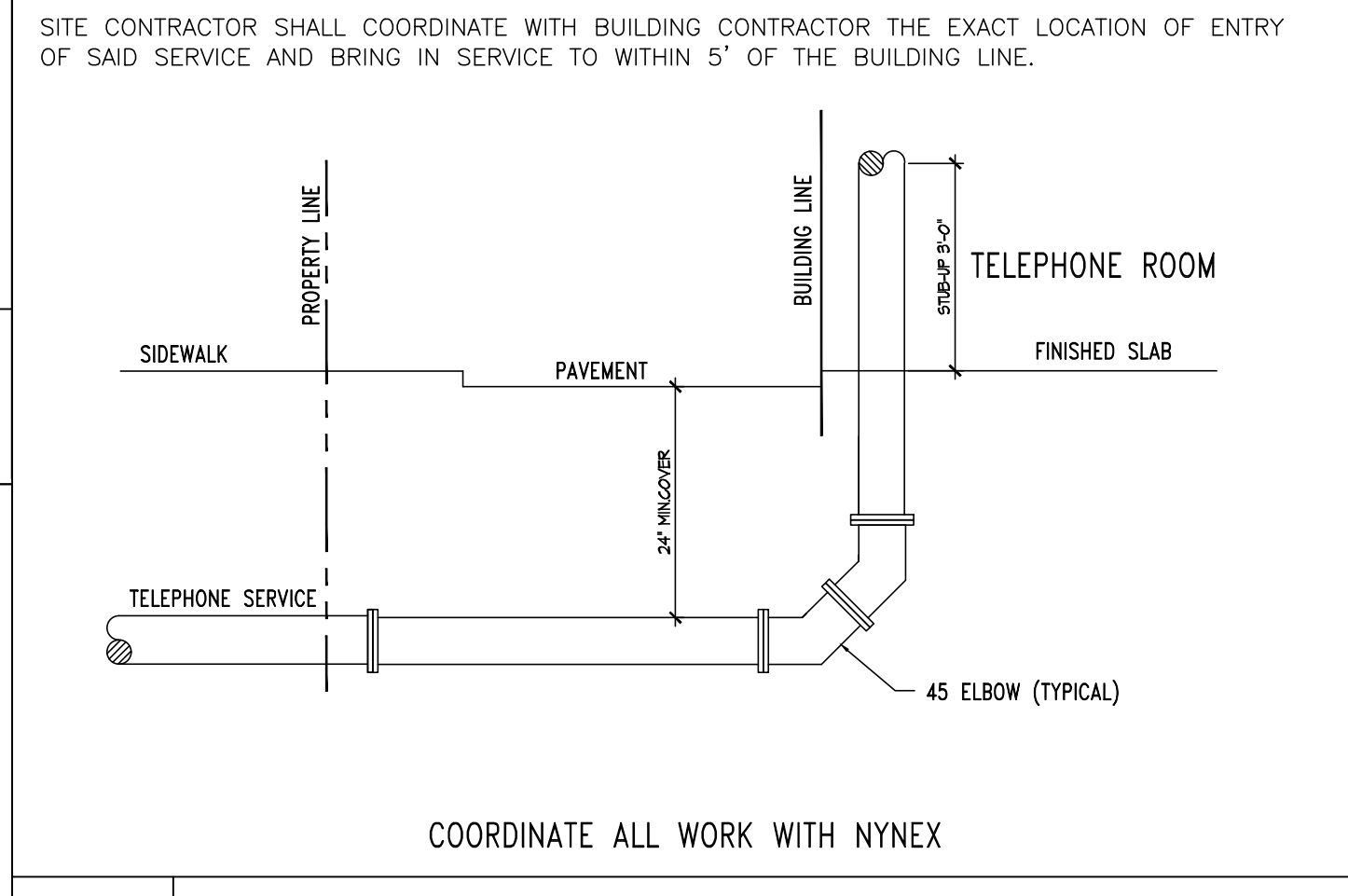
3 TRAFFIC SIGN TABLE



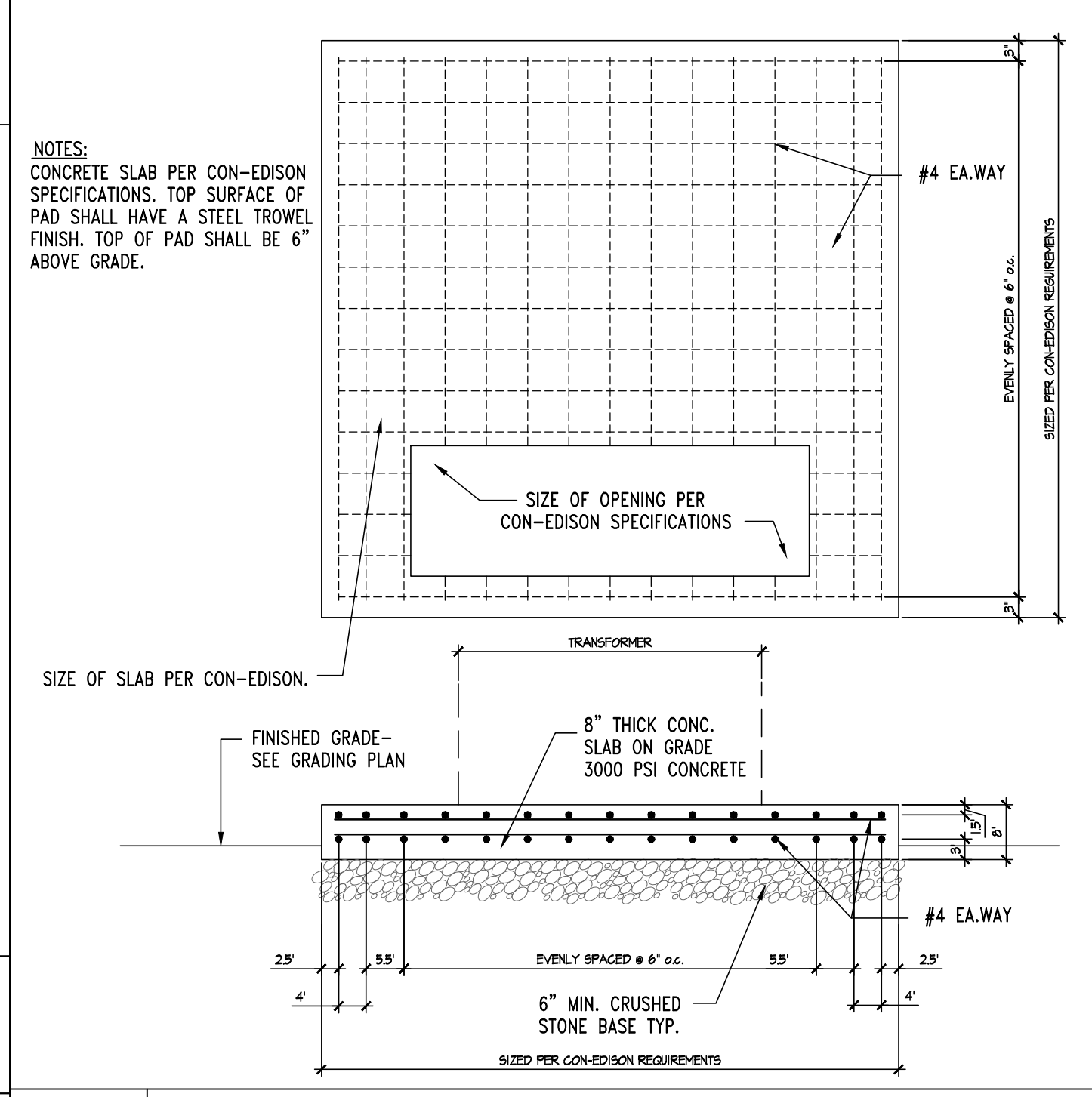
7 SECTION THRU ELECTRIC SERVICE



8 CABLE T.V. CONDUIT INSTALLATION DETAIL



9 TELEPHONE CONDUIT INSTALLATION DETAIL



10 TYPICAL TRANSFORMER PAD DETAIL

REVISION

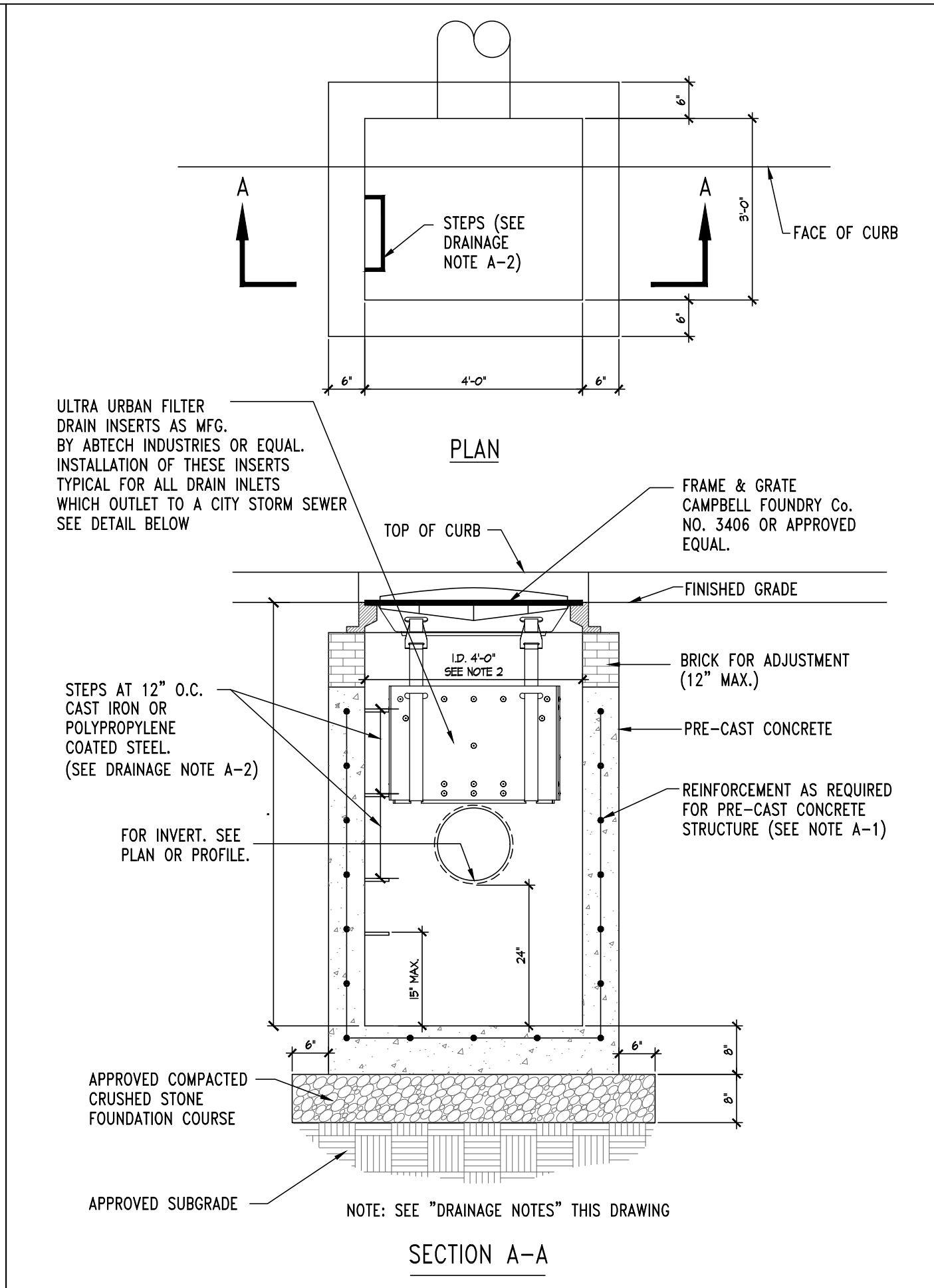
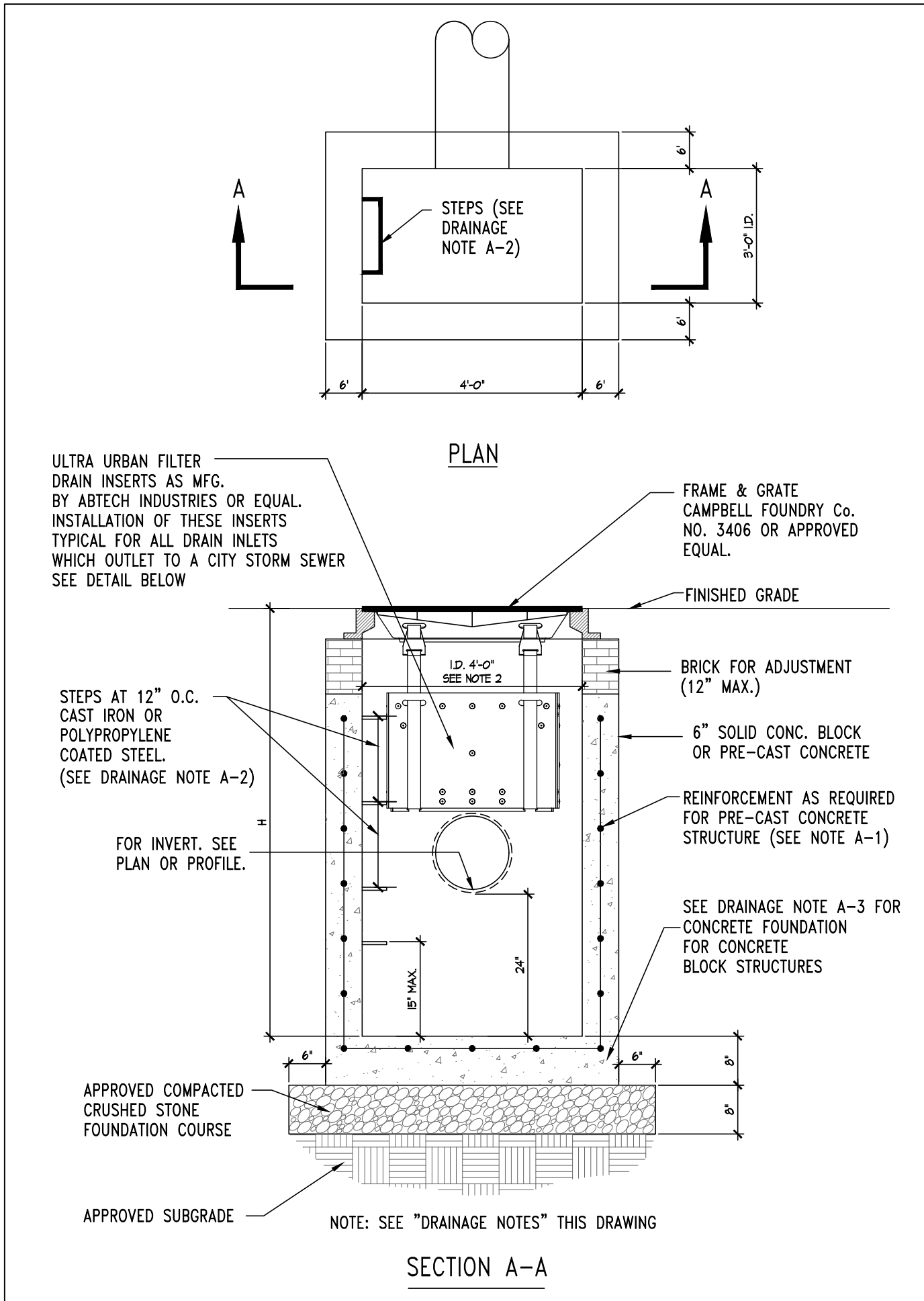
DATE

BY

DESCRIPTION

ROGERS CALVANICO GROUP
ARCHITECTURAL, ENGINEERING & LAND SURVEYING
2420 ARTHUR KILL ROAD STATEN ISLAND, N.Y. 10309
(718) 494-0444 / (718) 317-6900
CONTRACTOR SHALL NOTIFY ENGINEER / ARCHITECT AT ONCE OF ANY DISCREPANCIES NOTED IN THESE CONTRACT DOCUMENTS AS THEY RELATE TO ACTUAL FIELD CONDITIONS PRIOR TO CONTINUATION OF ANY WORK. VERIFY ALL DIMENSIONS IN FIELD. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. ALL DIMENSIONS ARE FINISH TO FINISH, UNLESS NOTED OTHERWISE. THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE COPYRIGHTED. THESE PLANS ARE ALSO THE PROPERTY OF ROGERS CALVANICO GROUP PLLC. ANY INFRINGEMENTS OR UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.
DOB-NOW JOB NO.
PROJECT
TARGEE PLAZA
TARGEE ST./DEKALB ST./RHINE AVE., STATEN ISLAND, N.Y. 10304
DRAWING TITLE
SITE CIVIL DETAILS
SEAL & SIGNATURE
DATE
07/05/2020
PROJECT NO.
8100
DRAWING BY
GD
CHECKED BY
DRAWING NO.
C=006.00
CAD FILE NO.
F:\CAD\8100\Site Civil Details_070520

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1	DRAIN INLET	2	CURB INLET
---	-------------	---	------------

A-1 ALL PRE-CAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD.

A-2 STEPS WILL NOT BE REQUIRED IN INLETS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN INLETS FOUR (4) FEET OR GREATER IN DEPTH. WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".

A-3 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK AS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

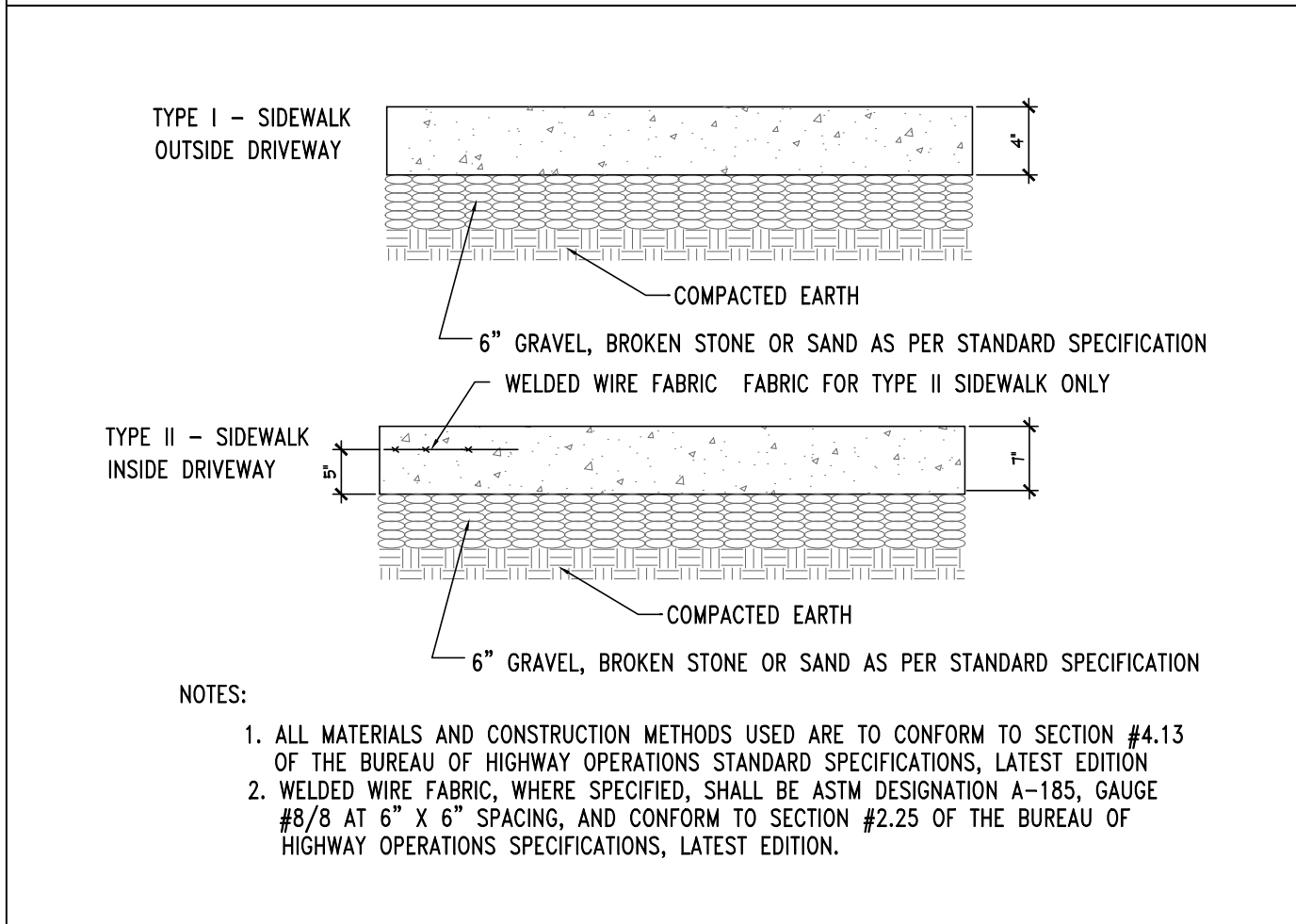
A-4 ALL NECESSARY PATCHING FOR DRAIN STRUCTURES SHALL BE ACCOMPLISHED WITH NON-SHRINKING CEMENT MORTAR GROUT, APPROVED EQUAL TO SIKKA-SET AS MANUFACTURED BY THE SIKKA CHEMICAL CORP.

A-5 FOUNDATIONS FOR PRE-CAST CONCRETE STRUCTURES SHALL BE SET ON A COMPACTED LAYER OF APPROVED POROUS MATERIAL HAVING A MINIMUM COMPACTED THICKNESS OF EIGHT (8) INCHES.

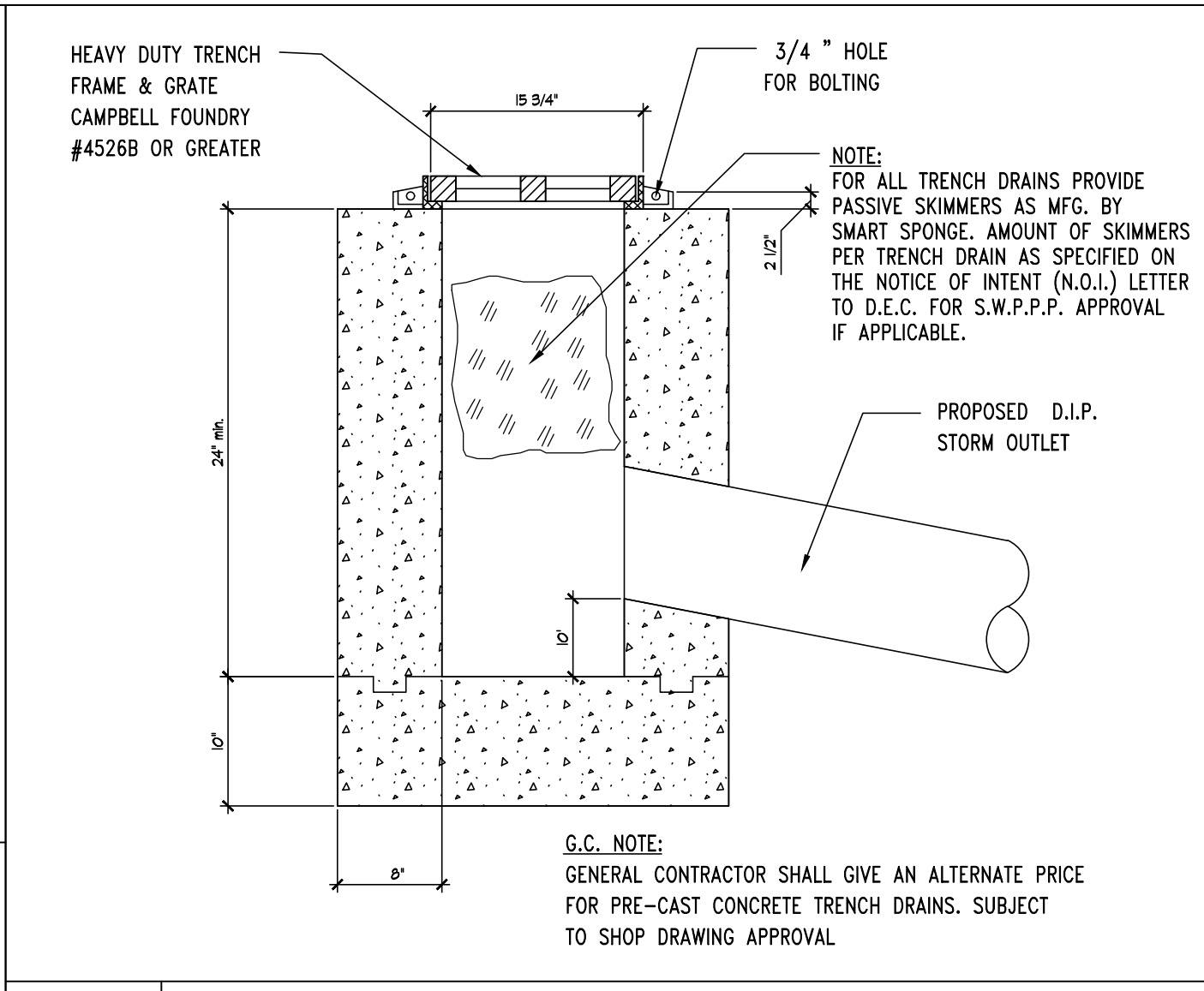
A-6 ALL PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.

A-7 PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED DRAIN INLETS WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF FRAME & GRATE.

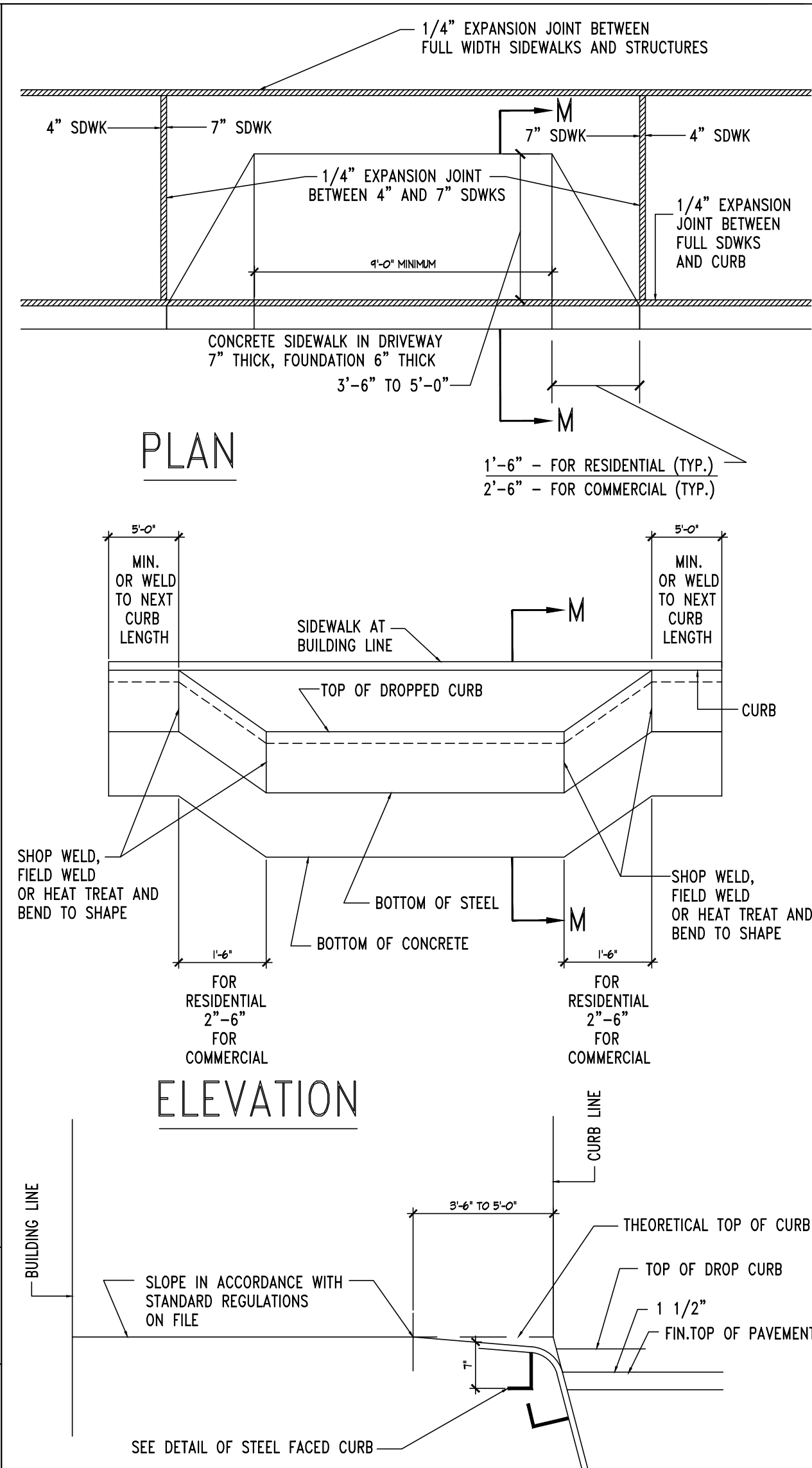
NOTES PERTAINING TO INLETS



3	CONCRETE SIDEWALK (H-1045) (WITHIN CITY R.O.W.)
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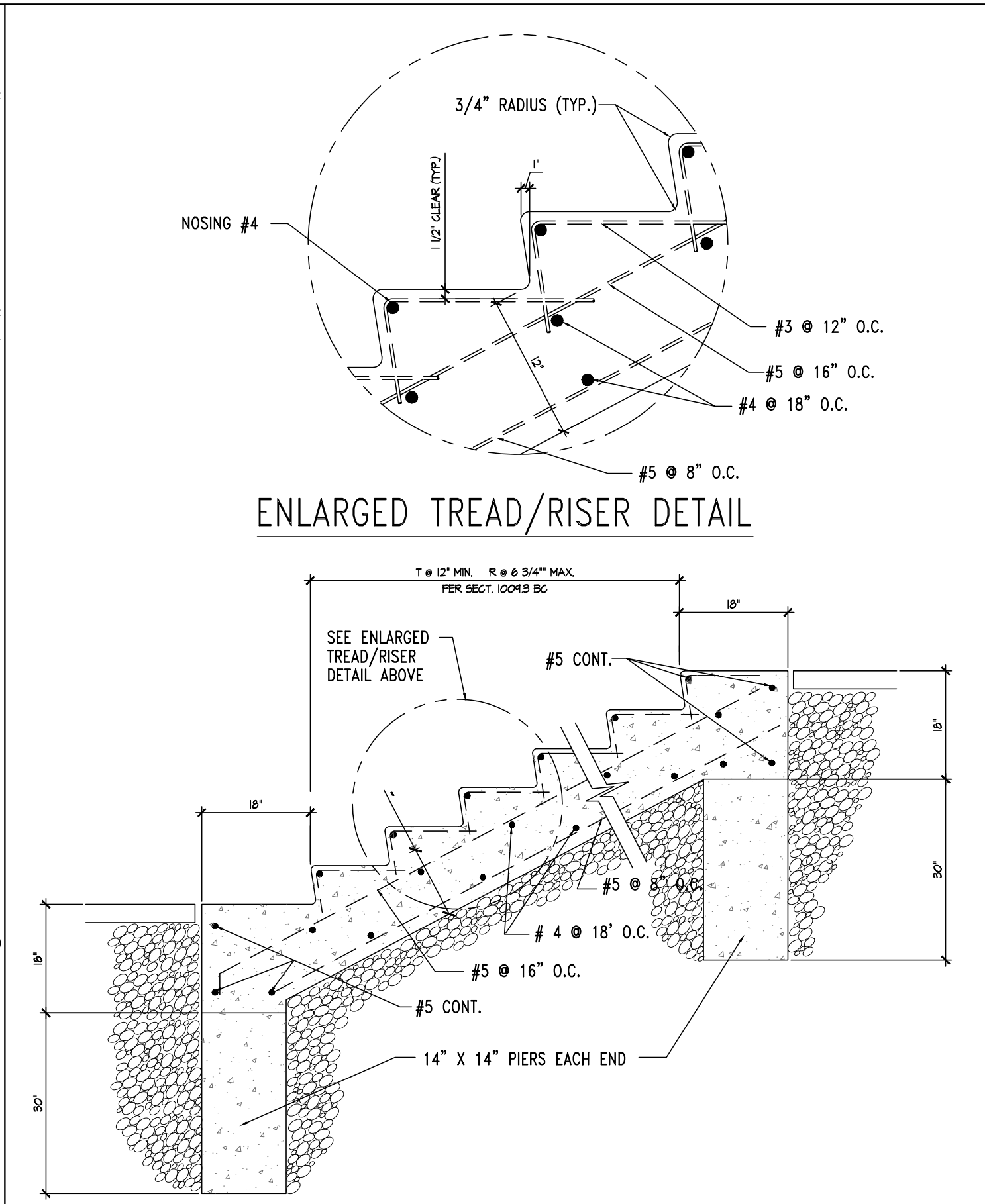


4	TYPICAL TRENCH DRAIN DETAIL
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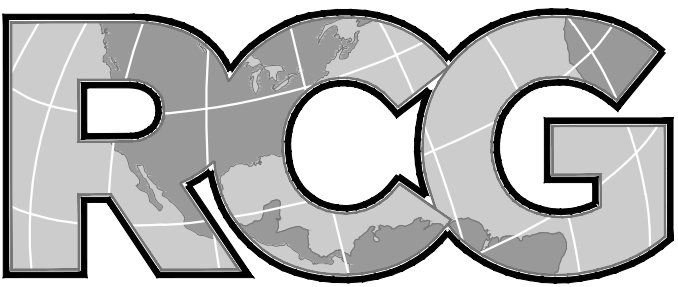
5	STEEL-FACED DROP CURB DRIVEWAYS (WITHIN CITY R.O.W.)
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ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO NYCDOT SPECIFICATIONS, LATEST EDITION
CITY OF NEW YORK DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY OPERATIONS



6	TYPICAL EXTERIOR CONCRETE STAIR DETAIL
---	--

REVISION	DATE	BY	DESCRIPTION



ROGERS CALVANICO GROUP
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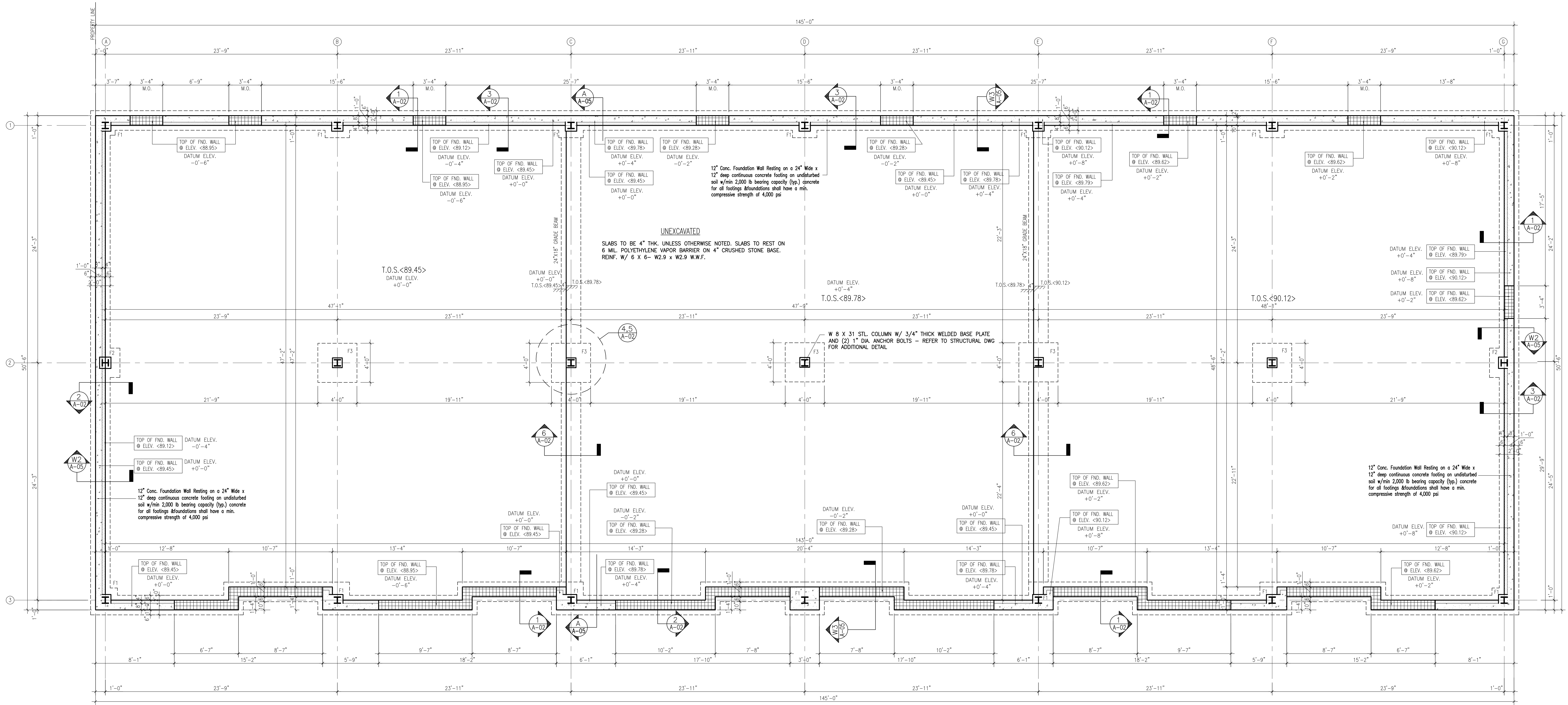
DOB-NOW JOB No.

PROJECT
TARGEE PLAZA
TARGEE ST./DEKALB ST./RHINE AVE., STATEN ISLAND, N.Y. 10304

DRAWING TITLE
SITE CIVIL DETAILS

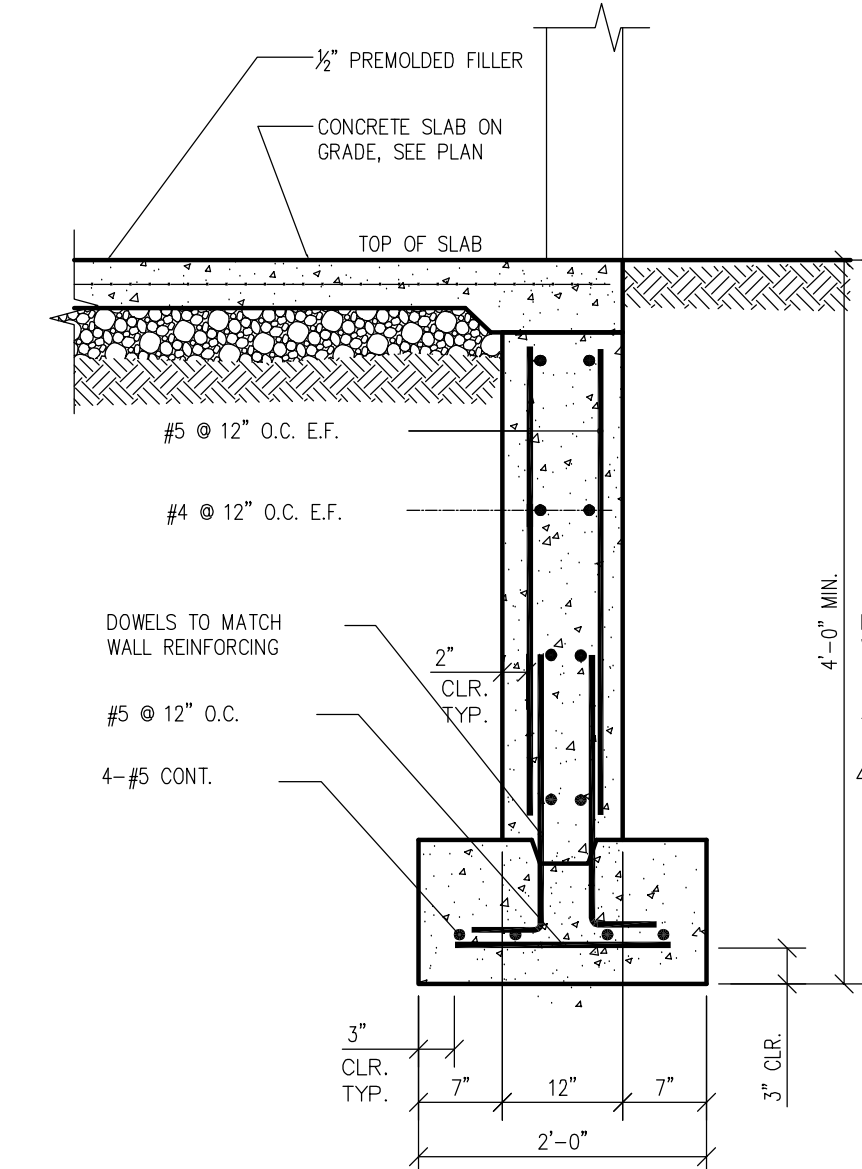
SEAL & SIGNATURE	DATE	07/05/2020
	PROJECT NO.	8100
	DRAWING BY	GD
	CHECKED BY	
	DRAWING NO.	
	CAD FILE No:	0 OF 00
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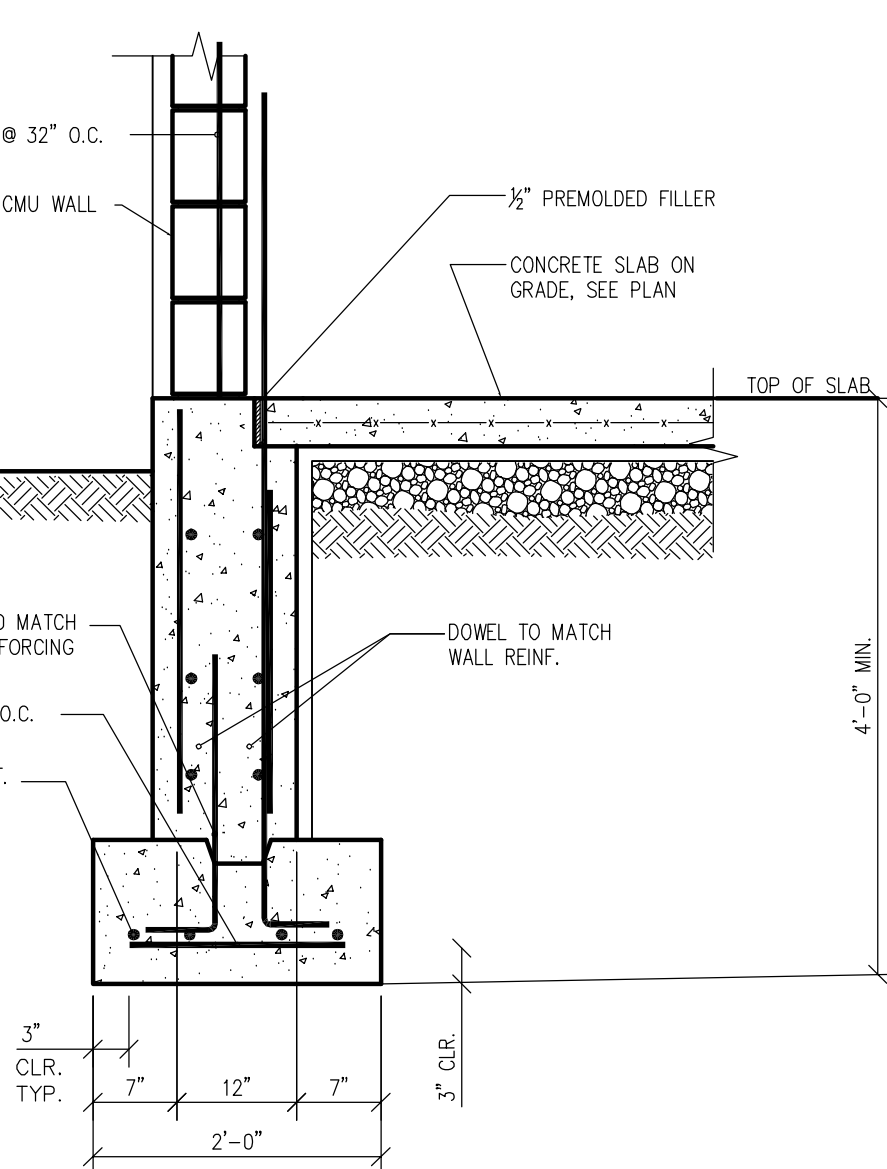
FOUNDATION PLAN

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



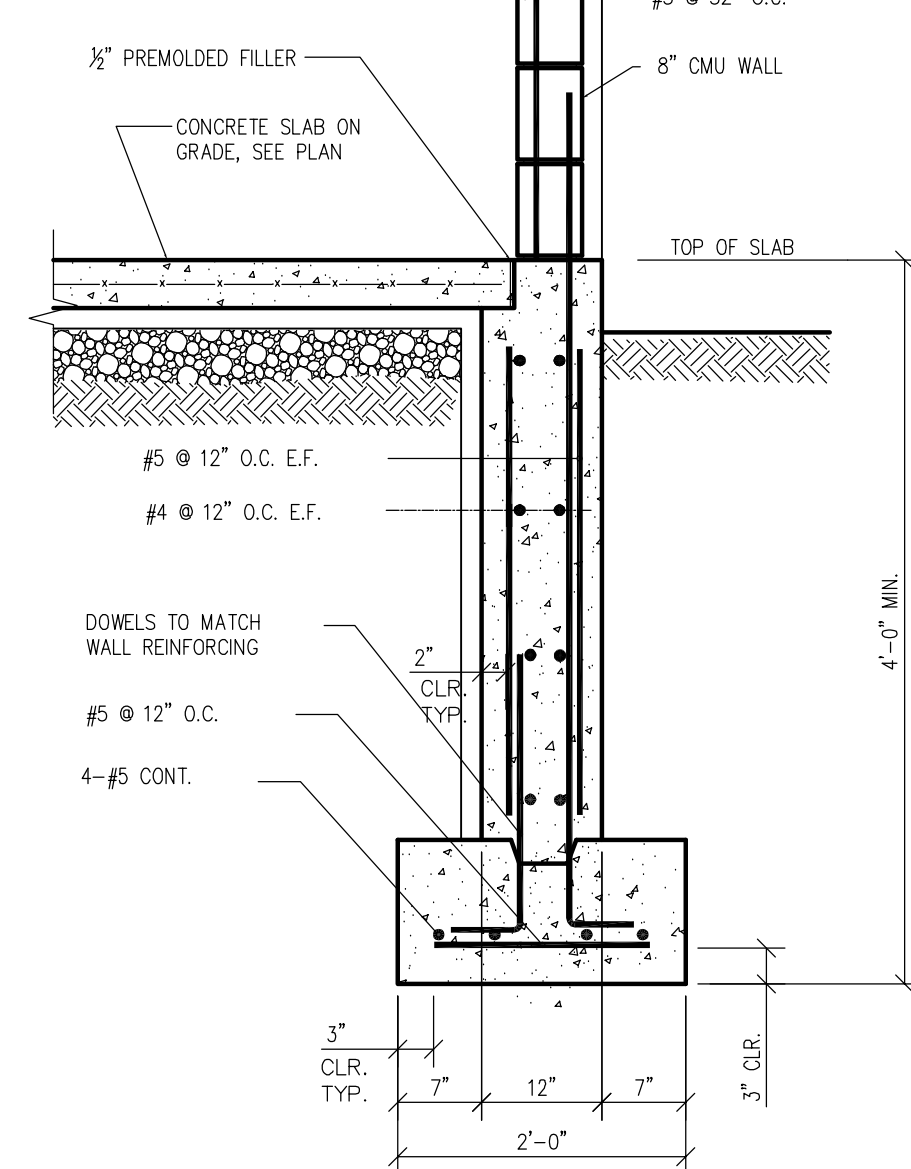
1 SECTION

N.T.S.



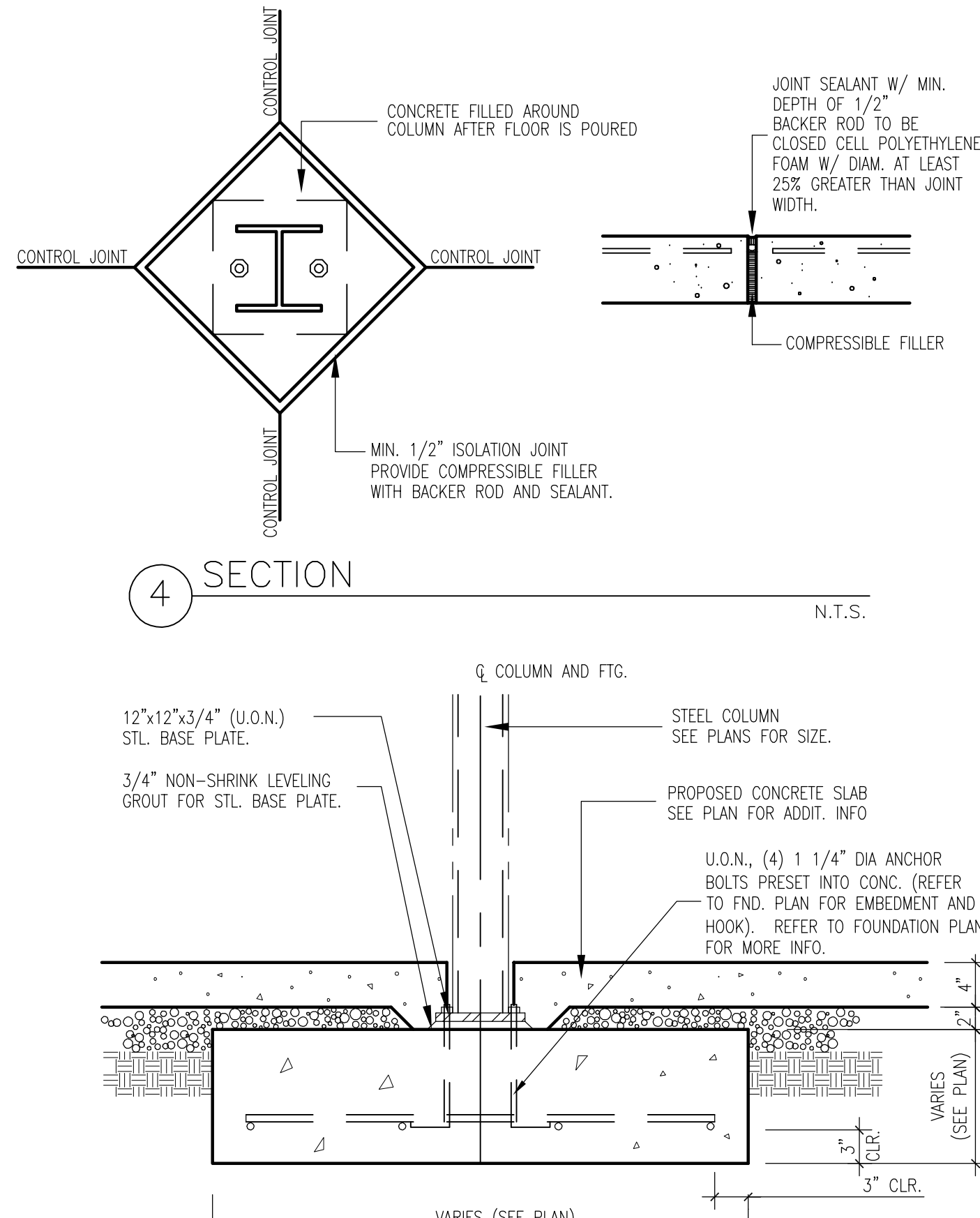
2 SECTION

N.T.S.



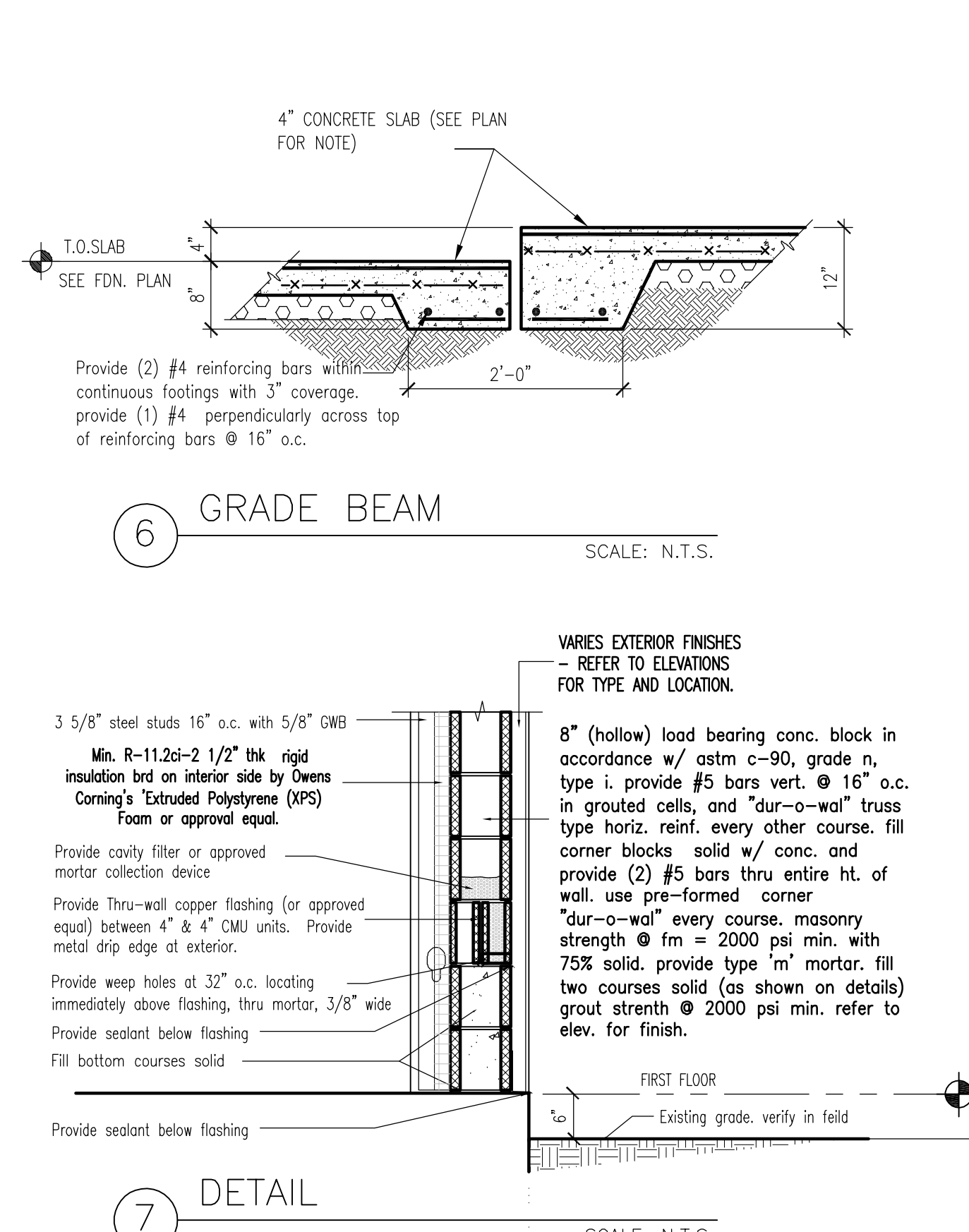
3 SECTION

N.T.S.



5 SECTION

N.T.S.



7 DETAIL

SCALE: N.T.S.

FOUNDATION NOTES

- ALL CONTINUOUS AND SPOT FOOTINGS TO REST ON FIRM, UNDISTURBED SOIL WITH 4'-0" MINIMUM FROST COVERAGE.
- PROVIDE 2 x 4 KEY IN TOP OF FOOTINGS.
- SPOT FOOTINGS SHALL BE REINFORCED WITH (5) #5 BARS, BOTH DIRECTIONS, WITH 3" OF COVERAGE ALONG BOTTOM OF FOOTING AND 1 1/2" ALONG SIDES OF FTG.
- W 8 X 31 STL. COLUMN W/ 3/4" THICK WELDED BASE PLATE AND (2) 1" DIA. ANCHOR BOLTS - REFER TO STRUCTURAL DWG FOR ADDITIONAL DETAIL.
- CONCRETE TO HAVE A STRENGTH OF MIN. 4000 PSI AT TIME OF TESTING.
- SLABS TO BE 4" THK. UNLESS OTHERWISE NOTED. SLABS TO REST ON 6 MIL. POLYETHYLENE VAPOR BARRIER ON 4" CRUSHED STONE BASE. REINF. W/ 6 X 6 - W2.9 X W2.9 W.W.F.
- CONTROL JOINTS IN SLAB TO BE HAND TOoled TO A DEPTH OF 1". SPACE JOINTS 20'-0" O.C. MAXIMUM IN BOTH DIRECTIONS, OR AS INDICATED ON FDN. PLAN.
- PROVIDE BITUMINOUS EXPANSION JOINT WHEREVER SLAB ABUTS FOUNDATION WALLS.
- PRIOR TO BACKFILLING, FOUNDATION WALLS SHALL BE DAMPROOFED WITH (2) LAYERS OF 1" FLOWLED ON MASTIC DAMPROOFING REINF. WITH MEMBRANE NET BETWEEN LAYERS.
- PROVIDE R-15 RIGID INSULATION FROM TOP OF SLAB TO A DEPTH OF 24" BELOW ADJACENT GRADE ALONG INTERIOR PERIMETER OF ALL FOUNDATION WALLS WHERE TOP OF SLAB IS LESS THAN 24" BELOW GRADE.
- GENERAL CONTRACTOR TO OBTAIN AN INDEPENDENT PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NEW YORK TO PREPARE CONSTRUCTION DRAWINGS, CALCULATIONS AND DETAILS FOR UNDERPINNING, BRACING OR SHORING IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE NYC BUILDING CODES FOR EXCAVATIONS DEEPER THAN FIVE (5) FEET ADJACENT TO PROPERTY LINES, STRUCTURES, OR AS OTHERWISE REQUIRED. SUCH DRAWINGS SHALL BE COORDINATED WITH ARCHITECT'S DRAWINGS. DRAWINGS SHALL BE FILED BY P.E. AND APPROVED PRIOR TO COMMENCEMENT OF WORK. ALSO SEE RESIDENTIAL NOTE SHEET (EXCAVATION SECTION)

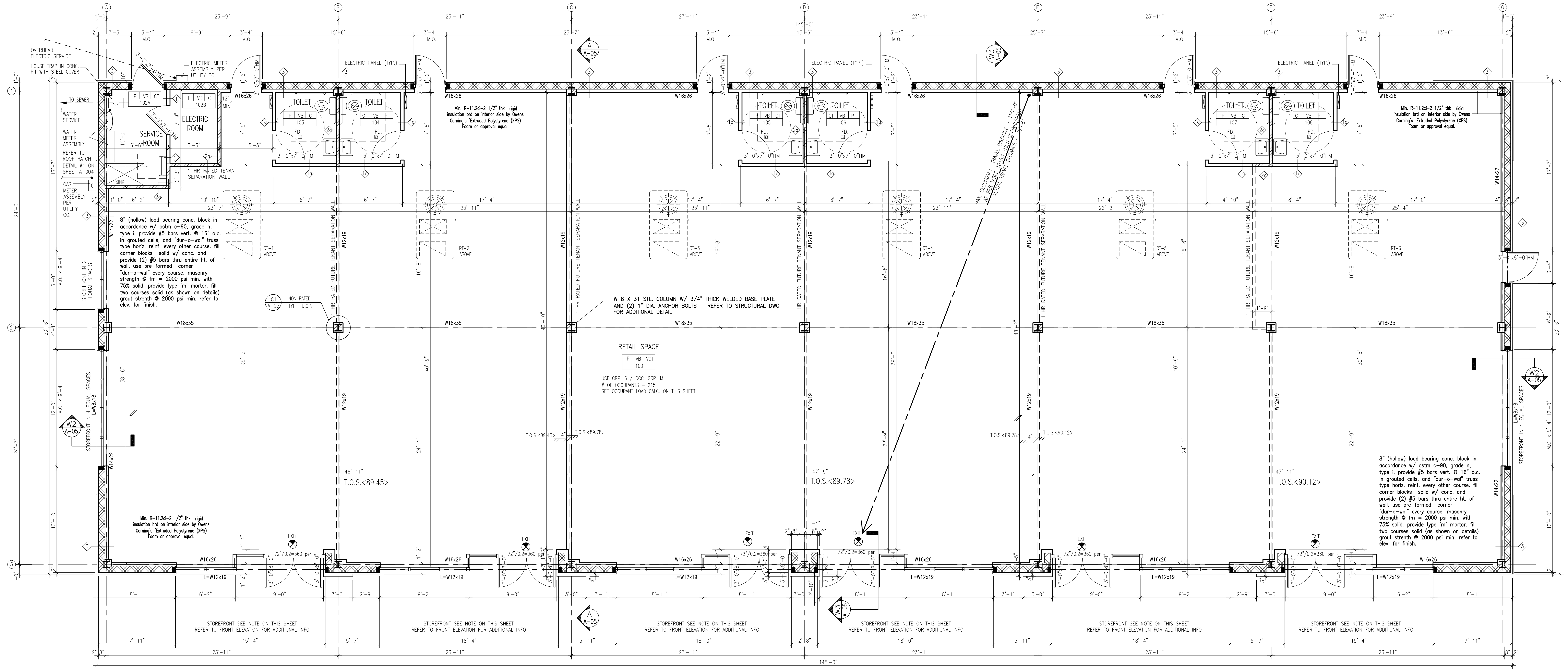
FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCEMENT
F1	2'-6"x2'-6"	1'-6"	3#5 EACH WAY
F2	3'-0"x3'-0"	1'-6"	5#5 EACH WAY
F3	4'-0"x4'-0"	1'-6"	7#5 EACH WAY

REVISION	DATE	BY	DESCRIPTION

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ARCHITECTURAL, ENGINEERING & LAND SURVEYING
2420 ARTHUR KELL ROAD STATEN ISLAND, N.Y. 10309
(718) 494-0444 / (718) 377-0800
www.rcgny.net pcc@rogerscalvanicogroup.net

PROJECT	ONE STORY RETAIL BUILDING TARGEET STREET STATEN ISLAND NY
DRAWING TITLE	FOUNDATION PLAN
SCALE & SIGNATURE	DATE 01/10/20 PROJECT NO. 8100 DRAWING BY DJK CHECKED BY DRAWING NO. A-002.00 CAD FILE NO. 2 OF ... F:\Cad\8100\8100 AP



1ST FLOOR PLAN

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

STOREFRONT NOTE:

PROVIDE YKK STOREFRONT SYSTEMS, -2" FACE X 1/2" DEPTH YES 45 TU THERMAL STOREFRONT SYSTEM FOR 1" GLAZING WITH AN ANODIZED FINISH (ANNA 612) OF APPROVED EQUAL. G.C. TO PROVIDE SHOP DRAWINGS TO ARCHITECTS OFFICE FOR REVIEW AND APPROVAL. REFER TO BUILDING ELEVATIONS FOR SIZE.

OCCUPANT LOAD FOR 1ST FLR RETAIL SPACE

AS PER TABLE 1004.1.1 6,466/55 / 30 = 215
TOTAL 1ST FLR OCCUPANTS = 215 PERSONS

GENERAL TOILET ROOM NOTES:

- All toilet room accessories are to be selected by owner and approved by architect. See below for acceptable manufacturers. General contractor to provide cut sheets and shop drawings to office of architect for review and approval. (typical)
- Refer to manufacturers cut sheet for mounting heights for barrier-free design. (typ)
- All colors and finishes to be selected by owner and approved by architect.
- All toilet rooms to include but not limited to: toilet fixtures, lav's, partitions, mirrors, grab bars, soap dispenser, hand dryer, clothing hook, and door stops. Provide cut sheets to architects office for review and approval. General contractor to provide ceramic tile samples include trim and base tile, paint samples and lighting fixture cut sheet.
- All finishes in accessible toilet rooms to be ADA compliant.
- Acceptable manufacturers for various components are (or approved equal):
 - partitions: knickerbocker
 - toilet and lav: american standard
 - accessories: bidmark
 - hand dryers: viator
 - ceramic tile: daletile

HAND DRYER

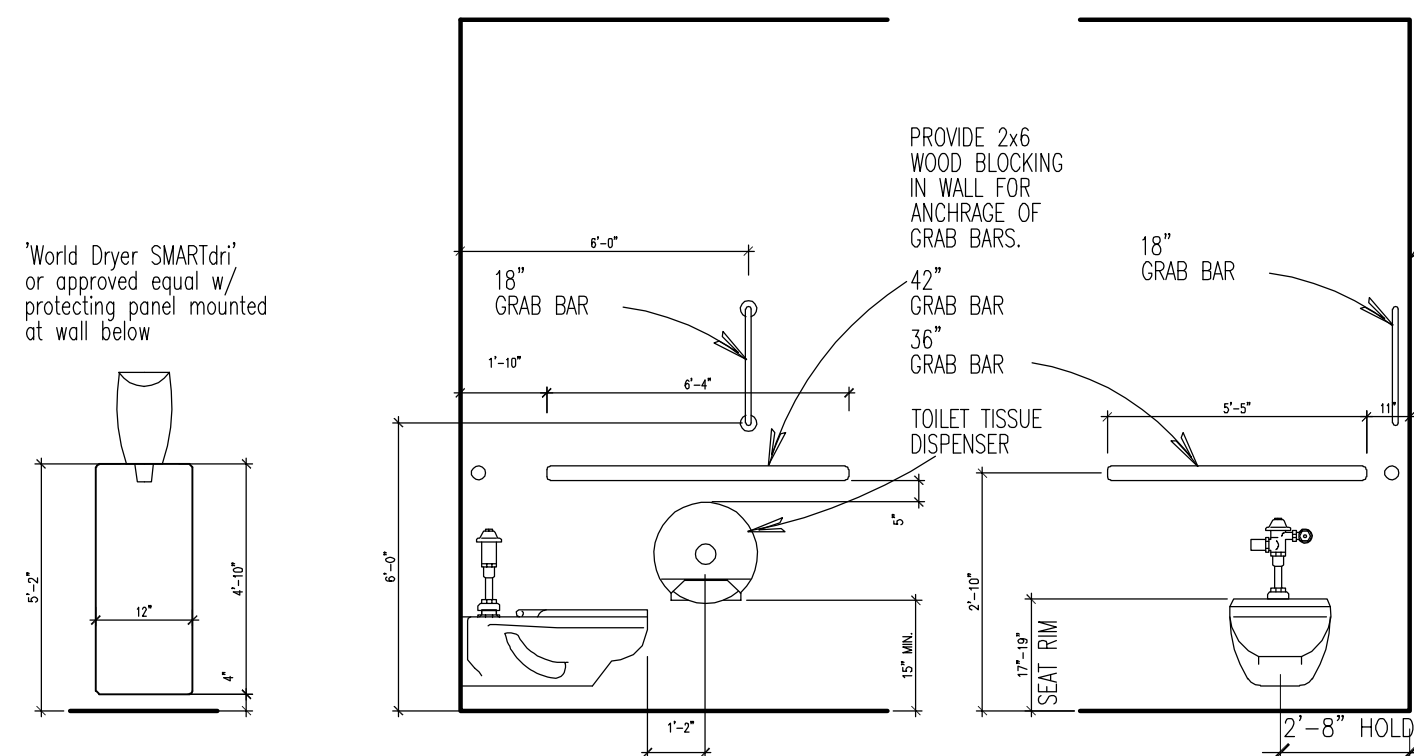
TYPICAL TOILET ROOM DIMENSIONS

EGRESS WIDTH CALCULATION FOR DOOR

AS PER SECTION 1005.1 DOWNSIDE INCHES PER OCCUPANT = 72"/0.2 DOOR
WIDTH = 360 MAX. OCCUPANT LOAD PER 72" DOOR

PLUMBING CALCULATIONS

AS PER TABLE 403.1 OF THE NYC PLUMBING CODE. PLUMBING FIXTURES ARE REQUIRED AS FOLLOWS:
1ST FLOOR - RETAIL SPACE - 215 OCCUPANTS
WATER CLOSETS = 1 PER 500 OCC. FOR EACH SEX. THEREFORE 1 WATER CLOSET FOR EACH SEX REQUIRED.
LAVS = 1 PER 750 OCC. FOR EACH SEX. THEREFORE 1 PROVIDE PER SEX
1 SERVICE SINK REQUIRED.



LINTEL SCHEDULE

FOR MASONRY WALLS

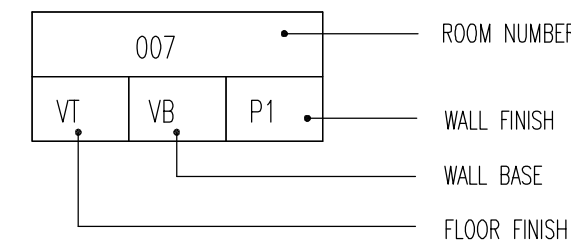
WALL WIDTH	LINTEL SCHEDULE			
	MASONRY	OPENING	LINTEL SIZE, SHAPE	
8"	0'-0" - 4'-0"	(2) 4" x 3 1/2" x 5/16"		
	4'-1" - 5'-0"	(2) 4" x 3 1/2" x 3/8"		
	5'-1" - 6'-6"	(2) 5" x 3 1/2" x 5/16"		
	6'-7" - 8'-0"	WB" x 15+5/16" x 7" PL.		
12"	0'-0" - 4'-0"	(3) 4" x 3 1/2" x 5/16"		
	4'-1" - 5'-0"	(3) 4" x 3 1/2" x 5/16"		
	5'-1" - 6'-6"	(3) 5" x 3 1/2" x 5/16"		
	6'-7" - 8'-0"	WB" x 18+5/16" x 11" PL.		

VANITY

NTS.

FINISHES:

- General contractor to provide room finish schedule as coordinated w/ owner to office of architect for review & approval prior to submitting bids & or prior to commencement of work. Schedule shall indicate finish & substrate material for all ceilings, walls, base & floors and thresholds for all rooms and / or spaces all to be ADA compliant.
- Prior to painting, Contractor shall inspect all surfaces to ensure they are in proper condition to meet manufacturers specifications. If they do not meet the guidelines set forth, the Contractor shall prepare the surfaces making sure they meet the standards.
- Provide "Johnsemit" floor transition piece as required. Submit cut sheets to architects office for review and approval.
- All points to be factory mixed, and primers to be tinted to exact shade of overcoat.
- All switch plates and receptacle plates to match corresponding wall color/wall cover unless otherwise noted and to be selected by owner and approved by architect. Submit cut sheets for approval.
- Door frames to match corresponding wall color except where noted.
- All metal bucks and convectors shall receive three (3) coats of paint: one (1) prime coat and two (2) finish coats of semigloss except where otherwise noted.
- Drywall construction shall receive three (3) coats of paint: one (1) prime sealer coat and two (2) finish coats of eggshell except where otherwise noted.
- CMU construction shall receive three (3) coats of paint: one (1) prime sealer coat and two (2) finish coats of epoxy except where otherwise noted.
- Walls shall receive base as selected by owner and approved by architect. Base shall be installed in a workmanlike manner properly adhered to the wall surface.
- All finishes (wall, floors, and ceilings) as well as furnishings to comply with New York City codes and regulations for flame spread. Any deviation shall be brought to the attention of the Architect prior to purchase and installation.
- All ceramic tiles to be by "Daltile" or approved equal. Bathrooms/laundry to receive 18x18 ceramic floor tiles and 12x12 ceramic tiles for walls (half height) and ceramic base tile. Janitors closet shall receive 18x18 ceramic floor tiles and 12x12 wall tiles only on 3 walls adjacent to sink. Other wall to be painted. Tile style to be selected by owner and approved by architect. All floor tiles to meet min. requirement for non-slip surface as per ANSI. Submit samples to architects office for approval.
- All 90 degree wall corners to receive protective wall guards by "WALL PROTEK" or approved equal.
- Room finishes for floors, base and walls are indicated on floor plans for each individual room as indicated below:

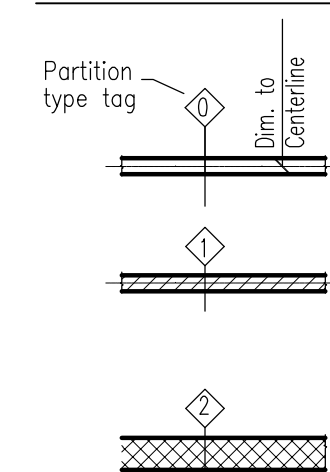


- VW Vinyl wall covering by "Wall Gordan"
P Paint - by Benjamin moore
VB Vinyl base, cove
CT Ceramic tile by Daltile or approved equal
EP Epoxy concrete floor sealer.
C Carpet - heavy duty, commercial grade by "Pawling corporation"
VCT vinyl composite tile by Armstrong or approved equal

DRAWING SYMBOL LEGEND AND NOTES

- Building section number
Drawing number
Where detail is drawn
Wall section number
Drawing number
Where detail is drawn
Detail number
Drawing number
Where detail is drawn
Wall type tag
(see sht A8 for details)
Door tags
Emergency Exit light

WALL LEGEND



- non rated Gwb and steel stud partition - (see wall and partition types-sht A-005 for wall assembly)
1 hr rated Gwb and steel stud partition - (see wall and partition types-sht A-005 for wall assembly)
1 hr Fire Resistance Rated wall - ANSI/UL 263 - refer to U.L. design U465
Concrete masonry wall - Fire Resistance Ratings - ANSI/UL 263 refer to U.L. design U905

REVISION DATE BY DESCRIPTION

001 Room Number

FD

floor drain - coordinate quantity and location with plumbing drawings and provide foundation or footing sleeves as required.

floor mounted toilet by american standard or approved equal.

wall-hung lavatory by american standard or approved equal. Provide wall stud blocking as required. (typ)

5'-0" Minimum handicap clearance

RCG
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www.rcg.net pcc@rogerscalvanicogroup.net

PROJECT
ONE STORY RETAIL BUILDING
TARGEET STREET
STATEN ISLAND NY

DRAWING TITLE
1ST FLOOR PLAN AND NOTES

SEAL & SIGNATURE

DATE 01/10/20

PROJECT NO. 8100

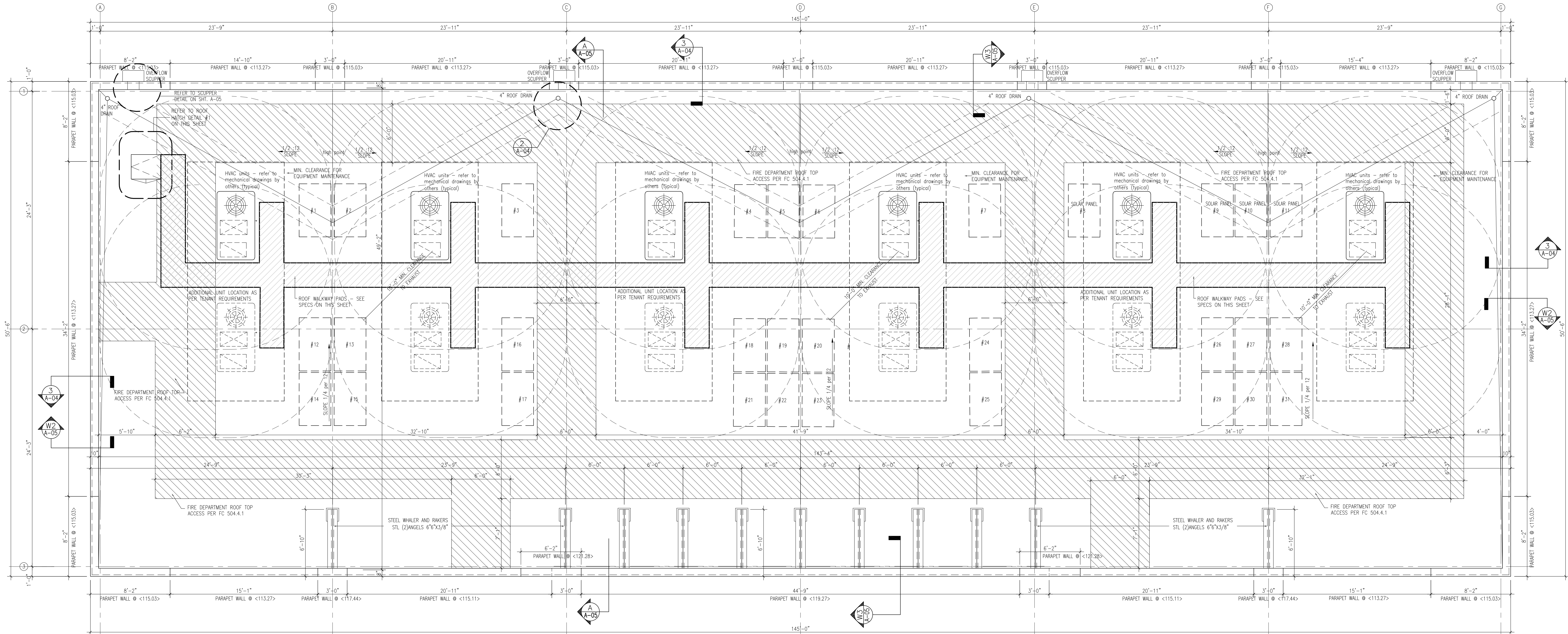
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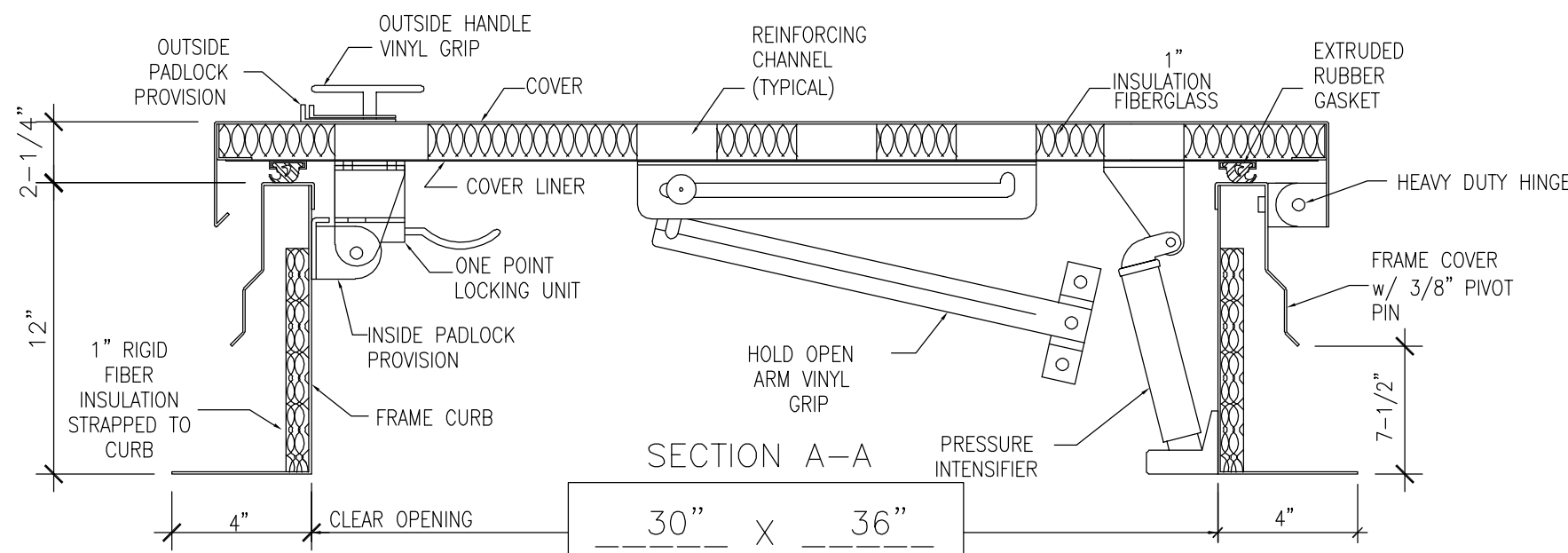


ROOF PLAN

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

ROOFING NOTES:

1. Provide Carlisle Sure-Weld 80-mil thick white, reinforced TPO (Thermoplastic Polyolefin) reinforced membrane Adhered Roofing System including flashings and insulation as specified herein and as indicated on the drawings in accordance with the manufacturer's most current specifications and details. On min. R-33ci 7" rigid insulation board over vapor barrier on galv'd deck.
2. General contractor to provide shop drawing, specifications and samples to architects office for review and approval.



HATCH MATERIAL:
GALVANIZED STEEL (PRIME PAINTED)
COVER - 14 GA. GALV. STEEL
FRAME COVER - 14 GA. GALV. STEEL
FRAME CURB - 14 GA. GALV. STEEL
COVER LINER - 22 GA. GALV. STEEL

HATCH FINISH:
GALV - PRIME PAINTED

MANUFACTURER:
PRECISION LADDERS, LLC OR EQUAL

ROOF LADDER AND HATCH DETAIL

SCALE: N.T.S.

ROOF SPECIFICATION

(SEE MANUFACTURER SPECIFICATIONS FOR ADDITIONAL INFO)

PART 1 GENERAL

1.01 DESCRIPTION

- A. The project consists of installing Carlisle Syntec's Sure-Weld (TPO) Adhered Roofing System as outlined below.

Apply the Sure-Weld Adhered Roofing System in conjunction with rigid over the new metal roof deck.

1.02 EXTENT OF WORK

- A. Provide all labor, material, tools, equipment, and supervision necessary to complete the installation of the Sure-Weld 80-mil thick white, reinforced TPO (Thermoplastic Polyolefin) reinforced membrane Adhered Roofing System including flashings and insulation as specified herein and as indicated on the drawings in accordance with the manufacturer's most current specifications and details.

- B. The roofing contractor shall be fully knowledgeable of all requirements of the contract documents and shall make themselves aware of the building owner, prior to bid, of any conflicts that will affect their work.

- C. The roofing contractor shall confirm all given information and advise the building owner, prior to bid, of any conflicts that will affect their cost proposal.

- D. Any contractor who intends to submit a bid using a roofing system other than the approved manufacturer must submit for pre-qualification in writing fourteen (14) days prior to the bid date. Any contractor who fails to submit all information as requested will be subject to rejection. Bids stating "as per plans and specs" will be unacceptable.

1.03 SUBMITTALS

- A. Prior to starting work, the roofing contractor must submit the following:

1. Shop drawings showing layout, details of construction and identification of materials.
2. A sample of the manufacturer's Membrane System Warranty.
3. Submit a letter of certification from the manufacturer which certifies the roofing contractor is authorized to install the manufacturer's roofing system and lists foremen who have received training from the manufacturer along with the dates training was received.
4. Certification from the membrane manufacturer indicating the membrane thickness over the reinforcing scrim (top ply membrane thickness) is nominal 15 mil or thicker.
5. Certification of the manufacturer's warranty reserve.
6. Upon completion of the installed work, submit copies of the

manufacturer's final inspection to the specifier prior to the issuance of the manufacturer's warranty.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the job site in the manufacturer's original, unopened containers or wrappings with the manufacturer's name, brand name and installation instructions intact and legible. Deliver in sufficient quantity to permit work to continue without interruption.

- B. Comply with the manufacturer's written instructions for proper material storage.

1. Store Sure-Weld membrane in the original undisturbed plastic wrap in a cool, shaded area. Sure-Weld membrane that has been exposed to the elements for approximately 7 days must be prepared with Carlisle Weathered Membrane Cleaner prior to hot air welding.

2. Store curable materials (adhesives and sealants) between 60°F and 80°F in dry areas protected from water and direct sunlight. If exposed to lower temperature, restore to 60°F minimum temperature before using.

3. Store materials containing solvents in dry, well ventilated spaces with proper fire and safety precautions. Keep lids on tight. Use before expiration of their shelf life.

- C. Insulation must be on pallets, off the ground and tightly covered with waterproof materials.

- D. Any materials which are found to be damaged shall be removed and replaced at the applicator's expense.

1.05 WORK SEQUENCE

- A. Schedule and execute work to prevent leaks and excessive traffic on completed roof sections. Care should be exercised to provide protection for the interior of the building and to ensure water does not flow beneath any completed sections of the membrane system.

- B. Do not disrupt activities in occupied spaces.

1.06 USE OF THE PREMISES

- A. Before beginning work, the roofing contractor must secure approval from the building owner's representative for the following:

1. Areas permitted for personnel parking.
2. Access to the site.
3. Areas permitted for storage of materials and debris.

1.11 SAFETY

The roofing contractor shall be responsible for all means and methods as they relate to safety and shall comply with all applicable local, state and federal requirements that are safety related. Safety shall be the responsibility of the roofing contractor. All related personnel shall be instructed daily to be mindful of the full time requirement to maintain a

safe environment for the facility's occupants including staff, visitors, customers and the occurrence of the general public on or near the site.

1.12 WORKMANSHIP

- A. Applicators installing new roof, flashing and related work shall be factory trained and approved by the manufacturer they are representing.

- B. All work shall be of highest quality and in strict accordance with the manufacturer's published specifications and to the building owner's satisfaction.

- C. There shall be a supervisor on the job site at all times while work is in progress.

1.15 WARRANTY

- A. Provide manufacturer's 30 year Total System Warranty covering both labor and material with no dollar limitation. The maximum wind speed coverage shall be peak gusts of 80 mph measured at 10 meters above ground level. Certification is required with bid submittal indicating the manufacturer has reviewed and agreed to such wind coverage.

- Note: For projects specified with warranties 20 year or longer and/or wind coverage specified greater than 72 mph, additional design enhancements are required. Refer to Carlisle published Sure-Weld Specifications

- Warranty Length/Minimum Membrane Thickness 30 year /80-mil Sure-Weld

- B. Warranty shall also cover leaks caused by accidental punctures: 16 man-hours per year for 180-mil Sure-Weld

- C. When white Sure-Weld membrane is specified, a Reflectivity Warranty Amendment is available indicating the membrane will meet the Energy Star program reflectivity guidelines for both new and aged membrane for a period of 10 years.

- D. Pro-rated System Warranties shall not be accepted.

- E. Evidence of the manufacturer's warranty reserve shall be included as part of the project submittals for the specifier's approval.

PART 2 PRODUCTS

2.01 GENERAL

- A. All components of the specified roofing system shall be products of Carlisle Syntec or accepted by Carlisle Syntec as compatible.

- B. All products (including insulation, fasteners, fastening plates, predrilled accessories and edgings) must be manufactured and/or supplied by the roofing system manufacturer and covered by the warranty.

2.02 MEMBRANE

Furnish Sure-Weld 80-mil thick white, reinforced TPO (Thermoplastic Polyolefin) membrane as needed to complete the roofing system. Membrane thickness over the reinforcing scrim (top-ply thickness) shall be nominal 15 mil thick or greater. Membrane sheets in rolls 12', 10' or 8' wide by 100' long.

GENERAL CONTRACTOR NOTE:
G.C. SHALL COORDINATE ALL ROOF CURB OPENINGS WITH MECHANICAL SUB-CONTRACTOR AND STEEL SUB-CONTRACTOR PRIOR TO INSTALLATION OF HVAC ROOF CURBS. STEEL SHOP DRAWINGS SHALL INDICATE ALL SIZES REQUIRED FOR HVAC ROOF CURB OPENINGS AND MECHANICAL CONTRACTOR SHALL SUBMIT FIXTURE CUTS FOR ALL ROOF CURBS. ALL ROOF CURBS SHALL BE INSTALLED PLUMB AND LEVEL TYPICAL.

SOLAR PHOTOVOLTAIC PANEL NOTE:

ANTICIPATED SOLAR GENERATION CAPACITY OF THE SUSTAINABLE ROOFING ZONE IS AS FOLLOWS:
TYPICAL 39"x65" SOLAR PANEL PRODUCES +/- 0.32 kW
(31) SOLAR PANELS x 0.32 kW EACH = 9.92 kW > 4 kW o.k.
COMPLIES WITH NYC BUILDING CODE SECTION 1511.1. SOLAR PANELS SHALL BE FILED UNDER SEPARATE DOB APPLICATION

ROOF WALKWAY PADS:

CARLISLE SURE SEAL WALKWAY PADS 30"x30"x3/8" THICK - COLOR: WHITE - OR EQUAL.

- FULLY ADHERED TO ROOFING IN ACCORDANCE WITH ROOFING MFG SPECIFICATIONS.
- WALKWAY PADS TO BE SPACED A MINIMUM OF 6" OR MAXIMUM OF 12" APART TO ALLOW FOR WATER DRAINAGE.

REVISION	DATE	BY	DESCRIPTION



2420 ARTHUR KELL ROAD STATEN ISLAND, NY 10309
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PROJECT
ONE STORY RETAIL BUILDING
TARGEET STREET
STATEN ISLAND NY

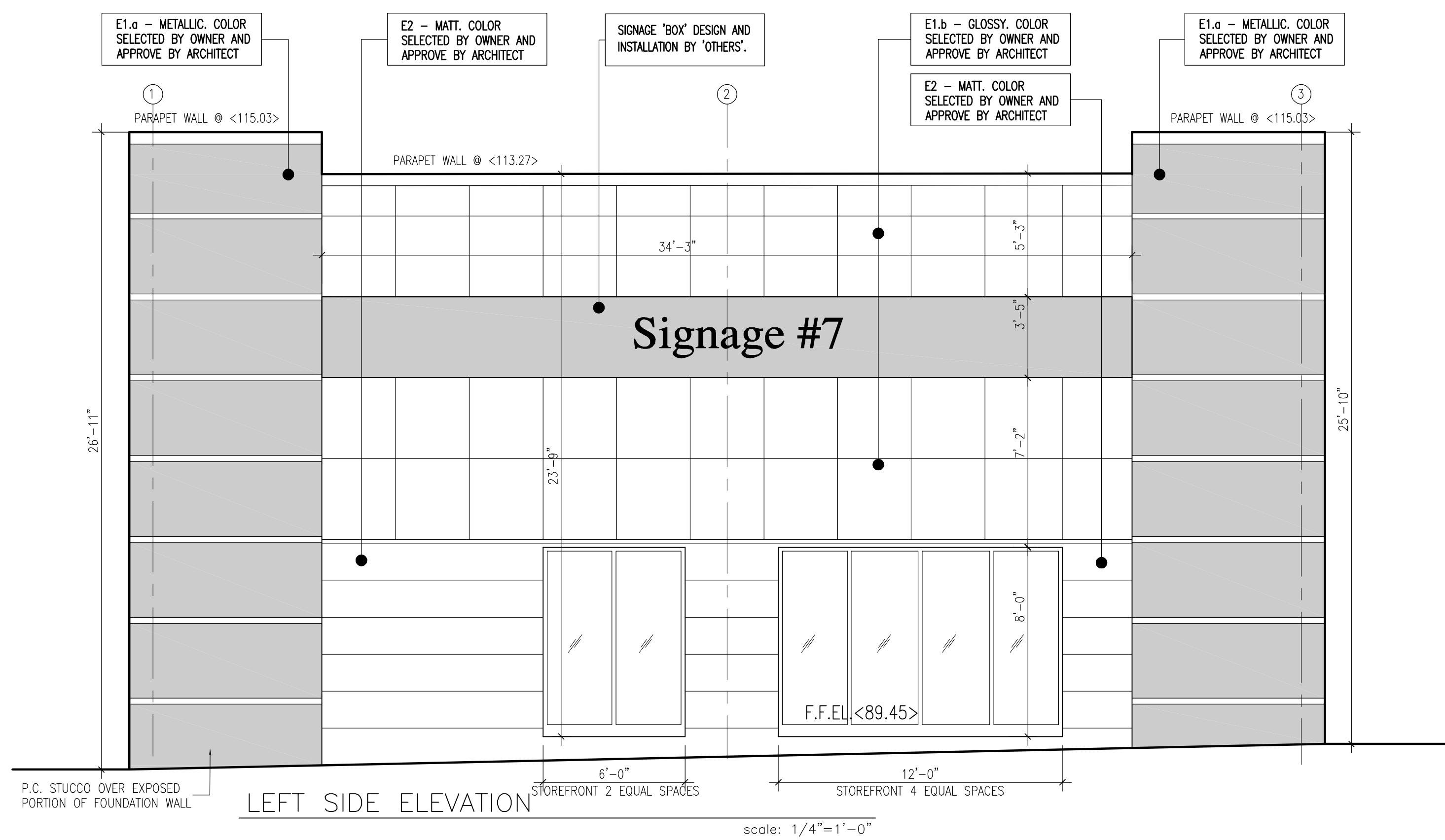
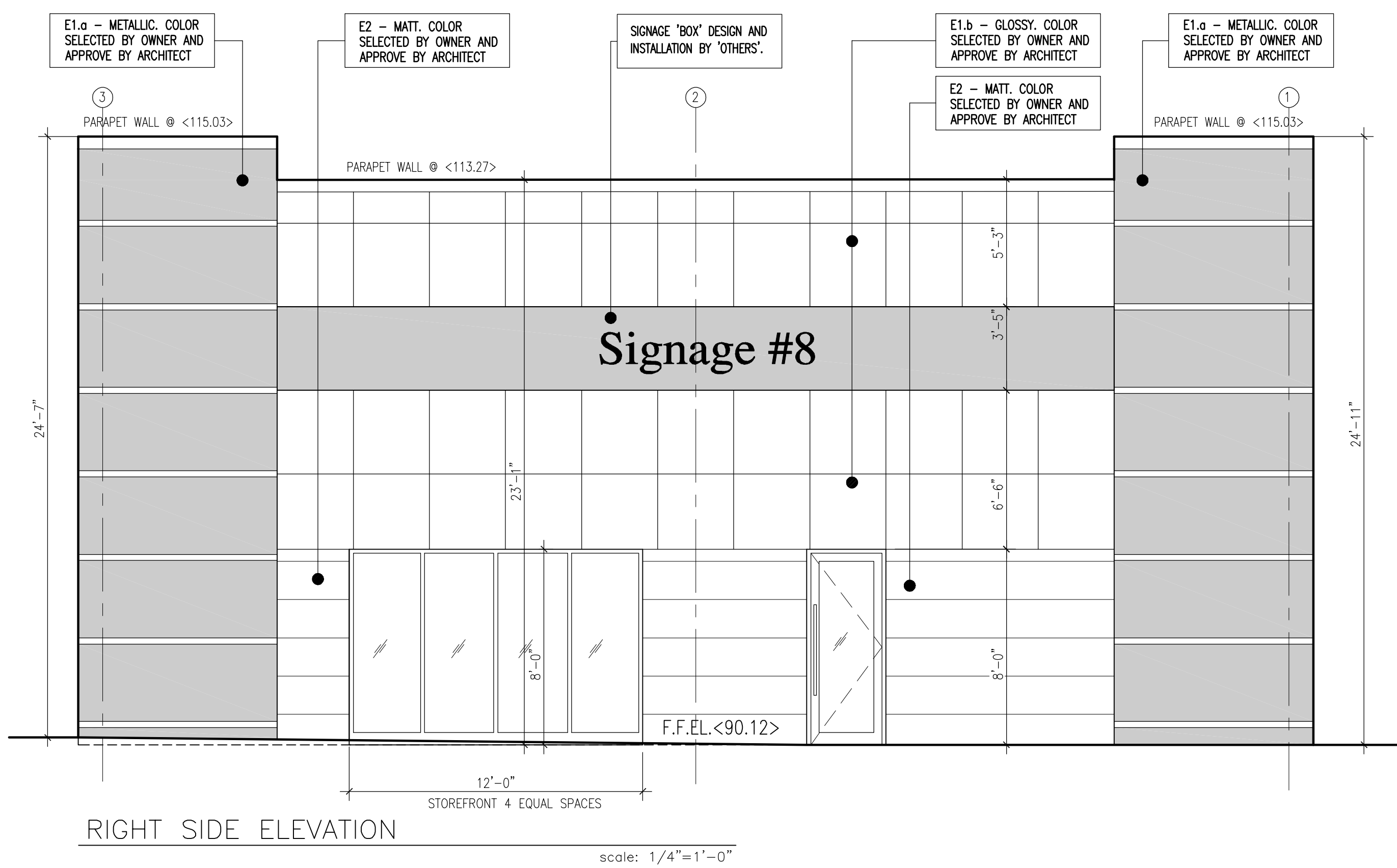
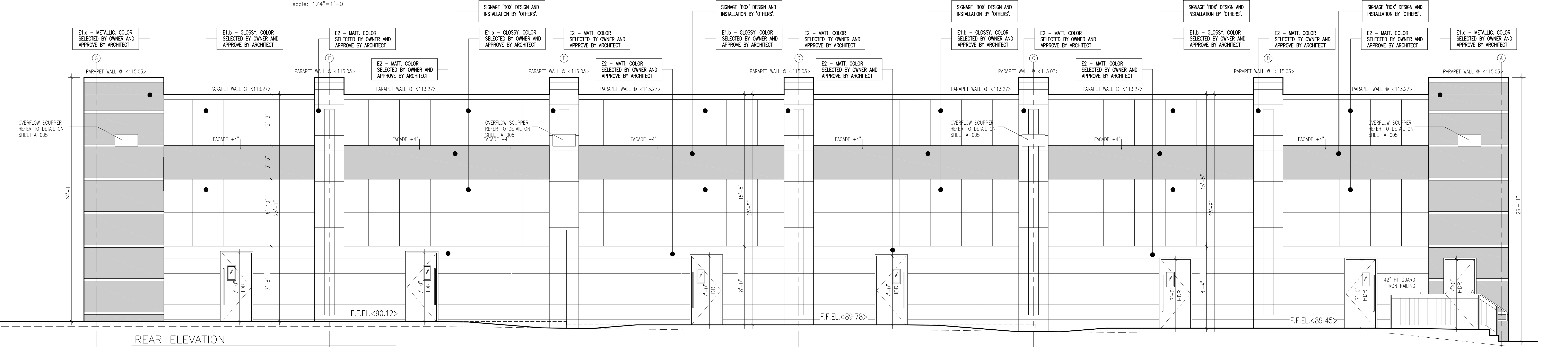
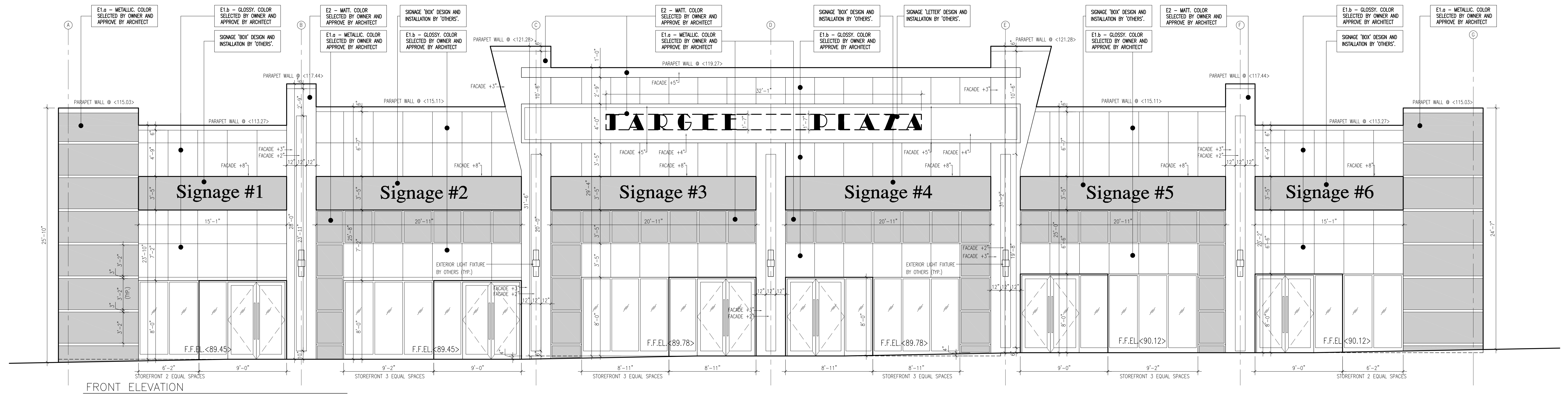
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ROOF PLAN AND DETAILS

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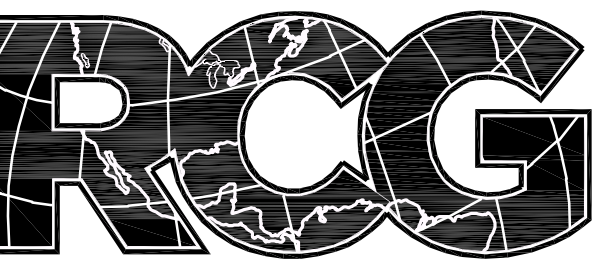


STOREFRONT NOTE:
PROVIDE YKK STOREFRONT SYSTEMS, -2" FACE X 4 1/2" DEPTH YES 45 TO THERMAL STOREFRONT SYSTEM FOR 1" GLAZING WITH AN ANODIZED FINISH (AANNA 612) OF APPROVED EQUAL. G.C. TO PROVIDE SHOP DRAWINGS TO ARCHITECTS OFFICE FOR REVIEW AND APPROVAL. REFER TO BUILDING ELEVATIONS FOR SIZE.

E1 - EXTERIOR PANEL NOTE:
EXTERIOR WALL PANEL SYSTEM BY "NICHHA Fiber cement" E1.a-METALLIC AND E1.b-GLOSSY FINISH, TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS. G.C. TO PROVIDE SAMPLE AND SHOP DRAWING FOR REVIEW AND APPROVAL. COLOR TO BE SELECTED BY OWNER AND APPROVED BY ARCHITECT.

E2 - EXTERIOR PANEL NOTE:
EXTERIOR WALL PANEL SYSTEM BY "NICHHA Fiber cement" E2-MATT FINISH, TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS. G.C. TO PROVIDE SAMPLE AND SHOP DRAWING FOR REVIEW AND APPROVAL. COLOR TO BE SELECTED BY OWNER AND APPROVED BY ARCHITECT.

REVISION	DATE	BY	DESCRIPTION



ROGERS CALVANICO GROUP
ARCHITECTURAL, ENGINEERING & LAND SURVEYING
2420 ARTHUR KELL ROAD STATEN ISLAND, N.Y. 10309
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www.rcginc.net pjohn@rcginc.net

PROJECT
**ONE STORY RETAIL BUILDING
TARGEET STREET
STATEN ISLAND NY**

DRAWING TITLE
ELEVATIONS

SEAL & SIGNATURE	DATE
	01/10/20
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1. ALL STRUCTURES AND PARTS THEREOF ARE DESIGNED IN ACCORDANCE WITH ALLOWABLE STRESS DESIGN PROVISIONS IN COMPLIANCE WITH 2014 NYC-BC.

1. ALL WORK PERTAINING TO SHEETING, BRACING, SUPPORT OF ADJOINING PROPERTIES AND SIDEWALKS, PLACEMENT OF FOUNDATION CONCRETE ON SOIL AND BRACING

1. ALL WORK PERTAINING TO SHEETING, BRACING, SUPPORT OF ADJOINING PROPERTIES AND SIDEWALKS, PLACEMENT OF FOUNDATION CONCRETE ON SOIL AND BRACING SHALL BE DONE BY LICENSED PROFESSIONAL IN CHARGE OF SPECIAL INSPECTIONS AND RETAINED BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL BE GIVEN FOR PERFORMANCE OF THE SPECIAL INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYC BUILDING CODE - BEFORE ANY WORK IS COMMENCED ON AN ITEM OF CONSTRUCTION REQUIRING SPECIAL INSPECTION, ALL PERSONS RESPONSIBLE FOR SUCH SPECIAL INSPECTIONS SHALL BE NOTIFIED IN WRITING AT LEAST 72 HOURS PRIOR TO SUCH COMMENCEMENT OF WORK.
3. NOTICE SHALL BE PROVIDED BY THE PROJECTS OWNER TO ADJOINING PROPERTY OWNERS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NYC-BC: NO FOUNDATION OR EARTHWORK PERMIT SHALL BE ISSUED UNLESS AND UNTIL AT LEAST FIVE DAYS WRITEN NOTICE OF THE PERMIT APPLICATION SHALL BEEN GIVEN TO ALL ADJACENT PROPERTY OWNERS OF ADJOINING LOTS PRIOR TO THE START OF ANY EARTHWORK, FOUNDATION WORK, OR THE INSTALLATION OF FACILITIES WHICH MAY BE AFFECTED BY THE PROPOSED PROJECT CONSTRUCTION.
4. NOTICE SHALL BE PROVIDED BY THE PROJECT OWNER TO ADJOINING PROPERTY OWNERS IN ACCORDANCE WITH THE NYC BUILDING CODE: AT LEAST 24 HOURS WRITEN NOTICE SHALL BE GIVEN TO THE COMMISSIONER BEFORE THE COMMENCEMENT OF ANY WORK FOR WHICH A PERMIT HAS BEEN ISSUED.
5. ALL WORK PERFORMANCE RECORDS MUST BE MEASURED DURING CONSTRUCTION FOR EXCAVATION SHALL ADHERE TO APPLICABLE PROVISIONS OF THE NEW YORK CITY BUILDING CODE, THE NEW YORK STATE CODE AND RULES AND REGULATIONS OF THE NEW YORK STATE DEPARTMENT OF LABOR AND OSHA.
- PRIOR TO COMMENCEMENT OF MASS EXCAVATION, THE ADJOINING PROPERTIES AND STREETS SHALL BE VISUALLY SURVEYED BY THE CONTRACTOR, SUITABLY MARKED WITH PERMANENTLY PLACED REFERENCE POINTS TO BE MEASURED DURING CONSTRUCTION FOR THE PURPOSES OF DETERMINING CONSTRUCTION RELATED EFFECTS. REPORTS WITH PHOTOGRAPHS SHALL BE PROVIDED TO THE ARCHITECT IN TRIPPLICATE COPIES. A PRECONSTRUCTION DAMAGE CONDITION SURVEY OF THE ADJOINING PROPERTIES SHALL BE MADE IN WRITTEN AND PICTORIAL FORM AND TWO COPIES MUST BE FURNISHED TO THE OWNER OR OWNER'S REPRESENTATIVE.
7. ANY WATER INFLOW INTO THE EXCAVATION SHALL BE REMOVED BY PUMPING OR BY OTHER MEANS. NO WATER SHALL BE ALLOWED TO EXCAVATED AREAS SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF THE LOCAL AGENCIES HAVE JURISDICTION. THE ELEVATION OF THE WATER LEVELS BEYOND THE LIMITS OF THE PROJECT AREA SHALL NOT BE LOWERED SO AS TO PREVENT DISTRESS TO ADJOINING STRUCTURES.
8. A COMPETENT REPRESENTATIVE OF THE CONTRACTOR SHALL INSPECT THE SUBGRADE OF EACH AREA, REIN. AND ALL BRACING AND SHORING AT THE COMMENCEMENT OF EACH SHIFT TO ASSURE INTEGRITY PRIOR TO PERMITTING WORKS TO WORK WITHIN ANY EXCAVATED AREA.
9. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY EXCAVATION REINSTR REQUIRED FOR THE CONSTRUCTION OF THE PROJECT. IF SHEETING OR BRACING SYSTEM IS TO BE UTILIZED, THE DETAILS OF A SHOP DRAWING OF THE INTENDED SHEETING OF BRACING SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ARCHITECT BEFORE COMMENCEMENT OF WORK.
10. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SUBGRADE CONDITIONS PRIOR TO START OF WORK, THESE DRAWINGS DISCOUNT UNDERGROUND WATER CONDITION

1. CONCRETE CRACKS UNDER NORMAL CONDITIONS AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AS WELL AS CONCRETE BLOCK WALLS DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF WALLS AND OTHER STRUCTURAL ELEMENTS SUCH AS BEAMS AND/OR SLABS. TIED TOGETHER.
2. THE CRACKS FORMED ARE NORMALLY COSMETIC IN NATURE. THE CONCRETE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. ITS POSSIBLE THAT A NUMBER OF HAIR LINE CRACKS, WHICH WOULD NORMALLY SPREAD OVER A WIDE AREA, WILL INTEGRATE INTO A SINGLE CRACK WITH A WIDTH EXCEEDING 0.01 INCH. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL CARE IS MADE TO REDUCE THE POTENTIAL CAUSES AND TO PROVIDE PROPER CURE, IT IS NOT POSSIBLE TO PREVENT TOTAL ARTICULATION BETWEEN THE FLOOR/SLAB INHIBITION OF ALL CRACKS.
3. MOST SUCH CRACKS DEVELOP OVER THE FIRST TWO YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE AND PRESSURED EPOXYED. PROVIDE ALLOWANCE FOR SUCH CRACKS. THE OBJECT OF THE JOINT REPAIR IS TO ALLOW FREE MOVEMENT. MOVEMENT OF CRACKS AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO (2) YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURES WILL PERSIST.
4. DUE TO THE EXISTING SOIL CONDITIONS WHICH ARE SOFT, SOME FOUNDATION SETTLEMENT IS ANTICIPATED. MOST SETTLEMENT WILL OCCUR INITIALLY, BUT SOME CONTINUED SETTLEMENT IS EXPECTED. THE CONTRACTOR WILL BE REQUIRED TO INVEST ITSELF AS MASONRY AND CONCRETE CRACKS IN THE BUILDING AND ADJACENT STRUCTURES.
5. THE OWNER WILL RETAIN THE SERVICES OF A PHOTO-SURVEY CONTRACTOR WHO WILL DOCUMENT ALL PRE-EXISTING CONDITIONS IN ADJACENT BUILDINGS PRIOR TO CONSTRUCTION. COPIES OF THE REPORT WILL BE KEPT BY THE OWNER. IN ORDER TO REPAIR THE CRACKS BACK TO ORIGINAL CONDITION AND PAY FOR SAME. IN THE EVENT THAT CRACKING OCCURS, THE OWNER WILL INSTRUCT THE CONTRACTOR.

1. EXCAVATE ON PROPERTY LINES SUCH AS TO MAINTAIN ADJACENT PROPERTIES UNDAMAGED AT ALL TIMES.
2. REPAIR DAMAGE TO ADJACENT PROPERTIES AT NO COST TO THE OWNER.

1. ALL CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE CONCRETE INSTITUTE (ACI) 318.05.
2. ALL CONCRETE, EXCEPT AS SPECIFICALLY NOTED HEREIN, SHALL BE STONE CONCRETE HAVING AN ULTIMATE COMPRESSIVE STRENGTH OF 4000 psi AFTER 28 DAYS AND SHALL HAVE A MINIMUM CEMENT CONTENT OF AT LEAST 5 1/2 BAGS PER CUBIC YARD. CONCRETE FOR SLAB ON GRADE SHALL BE $f_c = 4000$ psi. CONCRETE ON METAL DECK SHALL BE STONE AGGREGATE $f_c = 4000$ psi. CONCRETE FOR FOOTINGS, GRADE BEAMS, FOUNDATIONS AND PILE CAPS SHALL BE $f_c = 4000$ psi.
3. ALL REINFORCING ELEMENTS, UNLESS OTHERWISE SHOWN OR SPECIFIED SHALL BE DEFORMED IN ACCORDANCE WITH ASTM-A615, GRADE 60 AND SHALL HAVE A MINIMUM YIELD POINT OF 60,000 psi. REINFORCING FOR COLUMNS TIES AND BEAM STIRRUPS SHALL BE DEFORMED IN ACCORDANCE WITH ASTM-A615 GRADE 40 AND SHALL HAVE A MINIMUM YIELD POINT OF 40,000 psi.
4. WELDED WIRE FABRIC SHALL HAVE A MIN. ULTIMATE STRENGTH OF 70,000 psi.
5. MINIMUM REINFORCEMENT PROTECTION UNLESS OTHERWISE SHOWN SHALL BE 3/4" FOR SLABS AND INTERIOR FACES OF WALLS; 1 1/2" FOR BEAMS AND GIRDERS; 2" FOR EXTERIOR FACES OF WALLS, 3" FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND.
6. NO CONCRETE SHALL BE PLACED UNTIL THE REQUIRED PRELIMINARY TESTS (PER NYC CODE) HAVE BEEN MADE AND ACCEPTED.
7. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTH IN ONE OPERATION. CONSTRUCTION JOINTS SUCH AS DAYS POURS JOINTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. MAIN REINFORCING SHALL RUN THROUGH THE JOINT. ROUGHING AND PICK JOINTS TO EXPOSE AGGREGATE FOR CHEMICAL BOND. WET THOROUGHLY AND SLUSH JOINT WITH 1:2 MORTAR, 1/2" THICK - NOT MORE THAN 5 MINUTES BEFORE FRESH CONCRETE IS POURED AGAINST SURFACE.
8. ALL OPENINGS IN FOUNDATION WALLS UNLESS OTHERWISE SHOWN, SHALL HAVE #6 BARS ADJACENT ON ALL SIDES AND SHALL EXTEND 2'-6" BEYOND EDGES OF OPENINGS.
9. THE CONTRACTOR SHALL COOPERATE WITH OTHER TRADES AND WHERE REQUIRED, INSTALL ALL BUILT-IN-WORK, SLEEVES, OPENINGS, INSERTS ETC. AS REQUIRED FOR A COMPLETE JOB. LOCATION OF ALL SLEEVES AND OPENINGS NOT SHOWN ON THESE PLANS ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER.
10. PROVIDE VERTICAL DOVEDED INSERTS AT 2'-0" o.c. MAXIMUM IN ALL CONCRETE SURFACES FACED WITH 1" TO 3" OR GREATER HATCH OF BRICK OF BLOCK.

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM WITH AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION AS AMENDED TO DATE AND WITH THE NEW YORK CITY BUILDING CODE.
2. ALL STEEL SHALL BE ASTM-A36 ($F_y=36$ KSI) OR ASTM-572 ($F_y=50$ KSI) AS NOTED ON PLANS.
3. SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. FIELD CONNECTIONS SHALL BE HIGH STRENGTH BOLTED UNLESS OTHERWISE SHOWN. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBER, UNLESS OTHERWISE NOTED. ALL GROOVE WELDS SHALL BE AWS PRE-QUALIFIED CJP GROOVE WELDS UNLESS OTHERWISE NOTED ON PLANS.
4. BOLT STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATION. LATEST EDITION HIGH STRENGTH BOLTS A-325 FRCTION TYPE. WELDING ELECTRODES: AMERICAN WELDING SOCIETY A 5.1.
5. ALL BOLTS SHALL BE MINIMUM $3/4"$ DIA. A 325-F. OPEN HOLES $13/16"$ DIA. UNLESS OTHERWISE SHOWN OR NOTED. GALVANIZED BOLTS SHALL BE A-325.
6. CONNECTION DESIGN: SHEAR CONNECTIONS FOR NON-COMPOSITE BEAMS USE THE REACTIONS CAUSED BY THE UNIFORM LOAD REQUIRED TO STRESS THE OUTER FIBERS TO $0.75 F_y$ UNLESS OTHERWISE NOTED.
7. ALL SHOP AND FIELD WELDS SHALL BR MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE UNLESS OTHERWISE NOTED. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIALS BEING WELDED.
8. THE FRAME SHALL BE CARRIED UP TRUE AND PLUMB AND TEMPORARY BRACING SHALL BE INTRODUCED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED TO, INCLUDING EQUIPMENT AND OPERATION OF SAME. SUCH BRACING SHALL BE THE RESPONSIBILITY OF THE STEEL CONTRACTOR AND SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY.
9. PROVIDE ALL REQUIRED PLATES, GUSSETS, STIFFENERS, BOLTS BEAM FILLER METAL, LINTELS, ETC. AS REQUIRED BY THE ARCHITECTURAL DRAWINGS.
10. THE MINIMUM ANGLE THICKNESS SHALL BE $3/8"$. THE MINIMUM BOLTS SHALL BE $3/4"$ DIA AND THE MINIMUM WELD SHALL BE $1/4"$.
11. ANCHOR BOLTS, BASE PLATES OR BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRE-SET WITH TEMPLATES OR SIMILAR METHODS. ALL PLATES SHALL BE SET IN FILL BEDS OF NON-SHRINK GROUT.
12. STRUCTURAL MEMBERS WHICH REQUIRE SPRAY-ON FIREPROOFING SHALL HAVE THE RATING AS INDICATED ON THE DRAWINGS. STEEL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR THE ARCHITECTURAL DRAWINGS.
13. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE STRUCTURAL ENGINEER BEFORE FABRICATION OR ERECTING OF ANY WORK.
14. STRUCTURAL STEEL DETAILS NOT SPECIFICALLY SHOWN ON THESE STRUCTURAL DRAWINGS SHALL BE SIMILAR TO THOSE FOR MOST SIMILAR SITUATIONS.

1. FLOOR SLABS ON GROUND SHALL BE POURED TO THE THICKNESS SHOWN ON THE DRAWINGS ON A VAPOR BARRIER.
2. VAPOR BARRIER SHALL BE POLYETHYLENE PLASTIC HAVING A MINIMUM THICKNESS OF 8 MILS (0.008") FREE OF PINHOLES AND OTHER BLEMISHES AND SHALL BE INSTALLED OVER A COMPACTED POROUS SUBGRADE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL JOINTS SHALL BE TIGHTLY SEALED AND TAPED.
3. PROVIDE A 1" THICK LAYER OF POROUS FILL BENEATH ALL SLABS ON GROUND. COMPACT FILL TO 95% OF MAXIMUM DENSITY IN CONFORMANCE TO ASTM D1557-66 MATERIAL SHALL CONSIST OF HARD DUSTY PARTICLES FREE OF ORGANIC MATTER, RUBBLE AND ALL DELETERIOUS SUBSTANCES. MAXIMUM PARTICLE SIZE SHALL BE 2", 10% TO 60% BY WEIGHT RETAINED ON THE NO. 10 SIEVE, LESS THAN 40% BY WEIGHT PASSING THE NO. 60 SIEVE AND NOT MORE THAN 10% WEIGHT PASSING THE NO. 200 SIEVE.
4. SLABS ON GROUND SHALL BE POURED IN CHECKERBOARD PATTERN, FASHIONED TO MINIMIZE SHRINKAGE. THE MAXIMUM AREA OF A POUR SHALL BE LIMITED TO 1000 SQUARE FEET WITH NO DIMENSION EXCEEDING 35 FEET.
5. MAXIMUM OUTSIDE DIAMETER OF PIPE OR CONDUIT PLACED IN SLABS ON GROUND SHALL BE LIMITED TO ONE-THIRD THE THICKNESS OF THE SLAB. THE MINIMUM CONCRETE COVER TOP AND BOTTOM SHALL BE ONE-THIRD THE THICKNESS OF THE SLAB.
6. PROVIDE A 12" THICKENED SLAB FOR WIDTH OF 8 INCHES AT EACH SIDE OF A JOINT AND PROVIDE A 2"x3" CONTINUOUS KEY AT THE CONSTRUCTION JOINT AND CONTINUE SLAB REINFORCEMENT THROUGH THE JOINT.

1. BACKFILL AGAINST FOUNDATION WALLS SHALL NOT BE DONE UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH AND WALLS ARE PROPERLY SHORED OR BRACED. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER PRIOR TO BACKFILLING...
2. ADD FOOTINGS TO EXISTING FOUNDATION SOIL HAVE A MINIMUM SELF BEARING CAPACITY OF 1.5 TONS PER SQUARE FOOT.
3. ISOLATED FOOTINGS SHALL BE LOWERED OR RAISED AND PIERS SHALL BE ADDED, REDUCED OR INCREASED IN HEIGHT, ALL AS APPROVED BY THE ENGINEER, WHERE UNDISTURBED SOIL OF BEARING CAPACITY IS FOUND AT A LOWERED OR HIGHER ELEVATION THAN SHOWN ON THESE PLANS.
4. EROSION TO FOOTINGS SHALL NOT BE FLAT GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTINGS.
5. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS.
6. THE DESIGN OF THE FOUNDATION IS BASED UPON SOIL BORING LOGS PREPARED BY A-Tech ENGINEERING, DATED APRIL 23, 2018

1. METAL DECK SHALL BE AS INDICATED ON PLANS.
2. METAL DECK SHALL BE MINIMUM 2 SPAN CONTINUOUS AND SECURELY WELDED TO SUPPORTING STEEL AS PER REQUIREMENTS OF STEEL DECK INSTITUTE.
3. METAL DECK SHALL HAVE A MINIMUM BEARING OF 2 INCHES AND SHALL BE FASTENED BY PUDDLE WELDING, SELF TAPPING SCREWS, POWER DRIVEN FASTENERS OR STEEL PLATE CONNECTORS AT APPROXIMATELY 6 INCHES o.c. LAP UNITS 1 1/2 CIRCUMFERENCE AT EDGES.
4. A SYSTEM OF HANGER ATTACHMENT DEVICES STANDARD WITH DECK MANUFACTURER AND HAVING A SAFE CAPACITY OF 100 LBS. SHALL BE PROVIDED. THE SYSTEM SHALL INCLUDE AT LEAST ONE DEVICE FOR EACH SIX SQUARE FEET OF FLOOR AREA AND LOCATION IN MANNER TO PROVIDE MAXIMUM FLEXIBILITY FOR INSTALLATION OF SUSPENDED WORK.
5. IN THE LARGE, THE METAL DECK WAS DESIGNED TO REQUIRE NO SHORING DURING CONSTRUCTION. HOWEVER, FEW AREAS MAY EXCEED THE MAXIMUM UNSHORED SPANS WHERE SUCH OCCURRENCES EXIST, THE METAL DECK SHALL BE TEMPORARILY SHORED.

1. MASONRY UNITS SHALL BE CLEARLY IDENTIFIED TO SHOW THE GRADE OF UNIT AND THE COMPRESSIVE STRENGTH WHERE CALLED FOR ON THE PLANS. REINFORCING BARS SHALL BE ROLLED TO IDENTIFY GRADE OF STEEL, SIZE AND TAGGED.
2. MATERIAL SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE MASONRY UNITS:	
SOLID LOAD BEARING	ASTM C145
HOLLOW LOAD BEARING	ASTM C90
CAST STONE HOLLOW NON-LOAD BEARING	ASTM C129 (NO EXPOSURE)
3. **MASONRY COATINGS AND TIES:**

ZINC COATING IN IRON OR STEEL	ASTM A173 1965
ZINC COATING ON WIRE	ASTM A116 1965
COPPER COATED WIRE	ASTM B227 1965
4. PROVIDE STANDARD GALVANIZED DUR-O-WALL REINFORCING EVERY OTHER COURSE, #9 CA. WIRE EACH WAY
5. CONTROL JOINTS TO BE DUR-O-WALL RAPID CONTROL JOINT OR APPROVED METHODS.
6. AT ALL WALL OPENINGS 4" OR GREATER, FILL JAMS SOLID. FILL MASONRY SOLID.
7. MORTAR TO BE TYPE "M", ASTM C270.
8. ALL MASONRY TO BE PROPERLY BONDED AND BRACED.
9. BONDING OF ALL MULTIPLE WYTH MASONRY WALL BY THE FOLLOWING:
 - A) PREFABRICATED JOINT REINFORCEMENT MINIMUM ONE CROSS WIRE EVERY MAXIMUM VERTICAL SPACING NOT TO EXCEED 19 INCHES.
 - B) GROUT BOND BY PURGING BACK OF BRICK SS-5-721 1964 FED SPECIFICATION
 - C) BRICK HEADERS WHERE SHOWN ON THE DRAWINGS.
10. INTERSECTING BOND BY WALLS AND PARTITIONS SHALL BE BONDED BY EITHER A TRUE MASONRY BOND BY LAYING AT LEAST 50% OF THE UNITS 3 INCHES OF THE UNIT BELOW OR BY 1/4"x1 1/2" METAL ANCHORS, ENDS BENT UP 2 INCHES OR CROSS PIN ANCHORS 2 FEET LONG. MAXIMUM VERTICAL SPACING 4 FEET OR OTHER EQUIVALENT.
11. WALLS AT JOINING OR INTERSECTING STRUCTURAL FRAMING SHALL BE ANCHORED WITH FLEXIBLE METAL ANCHORS TO STRUCTURAL MEMBERS.
12. CHASES NOT TO BE DEEPER THAN 1/8" THE WALL THICKNESS.
13. LINTELS HAVE MINIMUM BEARING ON WALL AT EACH END FOR AT LEAST 6".
14. PARAPET WALLS: ALL CELLS OF HOLLOW MASONRY UNITS SHALL BE FILLED SOLID.
15. PROVIDE JOINT REINFORCEMENT AT ALL CORNERS EXTENDING AT LEAST 4 FEET IN BOTH DIRECTIONS. PROVIDE COPING, WEATH PROOFING AND FLASHING, HEIGHT OF PARAPET NOT TO EXCEED THREE TIMES THE THICKNESS UNLESS REINFORCED.
16. PROVIDE TEMPORARY BRACING WHEREVER NECESSARY TO SUPPORT LOADS.
17. MIX MORTAR FOR A MINIMUM OF FIVE MINUTES. MORTAR MAY BE RE-TEMPERED BY

- PRIOR TO BEGINNING ANY WORK THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE STRUCTURAL ENGINEER OF ANOTHER ACCEPTABLE LICENSED PROFESSIONAL ENGINEER WHO SHALL HAVE PROVEN EXPERIENCE ACCEPTABLE TO THE OWNER AND ARCHITECT. MINIMUM REQUIRED QUALIFICATIONS SHALL INCLUDE A PROFESSIONAL LIABILITY INSURANCE COVERAGE OF 1 MILLION DOLLARS AND A MIN. PROVEN EXPERIENCE OF FIVE YEARS WITH SIMILAR WORK.
2. THE CONTRACTOR'S ENGINEER SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WILL ALL EXISTING CONDITIONS. HE SHALL PROVIDE SPECIAL INSPECTION SERVICES, IN ACCORDANCE WITH NYC BUILDING CODES AS FOLLOWS:
 - A) STRUCTURAL STEEL – WELDING & HIGH STRENGTH BOLTING
 - B) STABILITY & INTEGRITY OF STRUCTURES DURING CONSTRUCTION OPERATIONS
 - C) EXCAVATIONS – SHORING AND BRACING
 - D) SUBGRADE INSPECTION
 - E) SUBSURFACE CONDITIONS – FILL PLACEMENT & IN-PLACE DENSITY
 - F) MASONRY:
 - MORTAR, BLOCK AND BRICK THICKNESS
 - REINFORCEMENT PLACEMENT
 - HEADERS
 - BONDING
 - G) CONCRETE – CAST IN PLACE
 - H) FOOTING AND FOUNDATIONS
3. THE ENGINEER SHALL PREPARE PLANS, CALCULATIONS AND NOTES IN THE FORM OF SHOP DRAWINGS FOR ALL ITEMS OF WORK WHICH DIFFER FROM WHAT IS SHOWN ON THE ARCHITECT'S DRAWINGS. THE FIELD CONDITIONS. THE ENGINEER SHALL ALSO PREPARE PLANS IN THE FORM OF SHOP DRAWINGS, CALCULATIONS AND NOTES FOR ALL TEMPORARY SHORING AND BRACING AND CLEARLY INDICATE METHOD OF INSTALLATION, SEQUENCE OF OPERATIONS AND QUALITY CONTROL.
4. THESE SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER AND ARCHITECT OR RECORD PRIOR TO CONSTRUCTION. WORK SHALL BE EXECUTED FROM REVIEWED SHOP DRAWINGS.
5. COPIES OF SUCH DRAWINGS, WHICH WILL INCLUDE THE ARCHITECT'S COMMENTS, SHALL BE FILED WITH THE NYC DEPARTMENT OF BUILDINGS (ON AMENDMENT FORMS). ADDITIONALLY, AT COMPLETION OF WORK – FORMS INCLUDING ALL INSPECTION REPORTS PREPARED BY THE CONTRACTOR'S ENGINEER SHALL BE FILED WITH THE NYC DEPARTMENT OF BUILDINGS.
6. THE SPECIAL INSPECTION ENGINEER SHALL DETERMINE THE FREQUENCY OF INSPECTIONS NEEDED AND WHETHER HE OR SHE SHOULD INSPECT THE SITE PERSONALLY OR SEND A PERSON UNDER HIS OR HER DIRECT SUPERVISION, AT A MINIMUM, THE SITE MUST BE INSPECTED TWICE, ONCE AT A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR AND ONCE DURING CONSTRUCTION OPERATIONS.
7. THE SPECIAL INSPECTION ENGINEER SHALL MAINTAIN A LOG IN HIS OR HER OFFICE WHICH SHALL INCLUDE THE FOLLOWING MINIMUM INFORMATION:
 - A) ADDRESS OF THE PREMISES, DOB APPLICATION JOB NUMBER, CONTRACTOR NAME AND ADDRESS.
 - B) DATE AND TIME OF EACH INSPECTION INCLUDING NAMES OF PERSONNEL WHO INSPECTED THE SITE AND ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS GIVEN RELATING TO ANY OF THE FOLLOWING:
 - DEVIATIONS FROM CONTRACT DRAWINGS
 - ANTICIPATED FIELD CONDITIONS
 - PROPER EXECUTION OF THE WORK
 - GOOD ENGINEERING PRACTICE
 - SAFE JOB CONDITIONS
 - C) PRECAUTIONS TAKEN TO MAINTAIN SAFE CONDITIONS IF WORK IS STOPPED FOR ANY REASON
 - D) THE DATE OF ANY PARTICIPANTS IN ANY CONFERENCES WITH THE SPECIAL INSPECTION ENGINEER OCCURRING OFF SITE AND RELATING TO ANY SIGNIFICANT OBSERVATIONS OR INSTRUCTIONS.
8. THE SPECIAL INSPECTION ENGINEER SHALL RETAIN A COPY OF THE DOCUMENTS DESCRIBED ABOVE IN HIS OR HER OFFICE AND SHALL PROVIDE A COPY TO THE CONTRACTOR AND/OR OWNER TO BE KEPT AT THE CONSTRUCTION SITE.
9. THE SPECIAL INSPECTION ENGINEER RESPONSIBLE FOR SPECIAL INSPECTIONS SHALL REPORT UNSAFE CONDITIONS TO THE DEPARTMENT OF BUILDINGS AND/OR ANY OTHER AFFECTED AGENCIES IMMEDIATELY.
10. UPON REQUEST OF THE DEPARTMENT OF BUILDINGS, THE SPECIAL INSPECTION ENGINEER SHALL MAKE AVAILABLE FOR REVIEW BY THE DOB DOCUMENTS AND LOG DESCRIBED ABOVE.

1. MECHANICAL DRAWINGS ARE INTENDED TO BE USED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS WHEN PREPARING THEIR SHOP DRAWINGS AND WORK.
2. NO CHANGES SHALL BE MADE TO ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
3. NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
4. OPENINGS OF 16" OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENING REQUIREMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING MEMBERS. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE CONSTRUCTION LOADS ARE IMPOSED.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE NECESSARY AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIMENSIONS AS INDICATED ON THE PLANS.
8. CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING CONSTRUCTION PERIOD.
9. IN CASES WHERE MATERIAL SHOWN OR SPECIFIED IS NOT READILY AVAILABLE, THE CONTRACTOR MAY PROPOSE THE USE OF ALTERNATE MEMBERS FOR REVIEW BY THE PROJECT MANAGER. THE ALTERNATE MEMBERS PROPOSED MUST PROVIDE THE SAME STRENGTH AND STIFFNESS AS THE ORIGINAL DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT SUBSTITUTIONS DO NOT INTERFERE WITH ARCHITECTURAL, PLUMBING, MECHANICAL AND/OR ELECTRICAL REQUIREMENTS OF ANY ADDITIONAL COSTS ASSOCIATED WITH THE PROPOSED SUBSTITUTION SHALL BE BORN BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELEASED FROM THE RESPONSIBILITY OF SUCH DEVIATION BY THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PROPOSAL DATA ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

1. THE SCHEDULES BELOW INCLUDED SPUCE AND EMBEDMENT LENGTHS WHICH SATISFY THE PROJECT REQUIREMENTS AND THE FOLLOWING CRITERIA:
$$F_y = 80,000 \text{ psi}$$
$$\text{CONCRETE WEIGHT} = 150 \text{ lb/cu. ft.}$$
2. TENSION EMBEDMENT AND LAP SPICES ARE DIVIDED INTO TWO CATEGORIES WHICH SHALL BE APPLIED AS FOLLOWS:
CATEGORY I: CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN d_b , CLEAR COVER NOT LESS THAN d_b
CATEGORY II: BARS NOT COVERED BY CATEGORY I
3. USE TENSION SPUCE FOR ALL SPLICES OTHERWISE NOTED OTHERWISE.
4. THE STANDARD LAP SPUCE, $(0.0005 \times F_y \times D)$ IS USED FOR COMPRESSION ON SPLICES AND THE CLASS "B" SPUCE IS USED FOR TENSION SPLICES. THE CONTRACTOR MAY REQUEST AN INCREASED LAP LENGTH FOR REVIEW AND APPROVAL AT THE SAME TIME PROVIDING THE FOLLOWING INFORMATION:
 - A) DETAILS PREPARED AND SUBMITTED BY THE CONTRACTOR INDICATING LOCATION AND PROPOSED LAYOUT OF RE-BARS AND LENGTHS OF SPLICES.
 - B) WHERE THE SIZE AND NUMBER OR TIES OR SPIRALS PERMITS THE REDUCTION OF LAP LENGTH, THOSE BARS SHALL BE INDICATED ON THE DETAILS
 - C) WHERE COMPUTED SPACES ARE LESS THAN THE REDUCTION OF LAP LENGTH, COMPUTATIONS SHALL BE SUBMITTED FOR REVIEW.
5. THE APPLICABLE SECTION OF THE ACI-909 CODE PERMITTING THE LESSER SPICE LENGTH SHALL BE INDICATED ON THE SUBMITTAL MATERIAL.
6. TOP BARS ARE HORIZONTAL BARS PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE BAR SPACES.
7. WHERE BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE SPUCE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE LARGEST SIZE BAR.

SCHEDULE OF EMBEDMENT & SPLICE LENGTH (INCH)										
BAR SIZE	COMPRESSION		TENSION (f'c = 4,000 psi)							
	EMBEDMENT LENGTH	LAP SPLICE LENGTH	EMBEDMENT LENGTH				LAP SPLICE LENGTH			
			TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
			CATEGORY SEE NOTE 1 ABOVE	CATEGORY SEE NOTE 1 ABOVE	CATEGORY SEE NOTE 1 ABOVE	CATEGORY SEE NOTE 1 ABOVE	CATEGORY SEE NOTE 1 ABOVE	CATEGORY SEE NOTE 1 ABOVE		
			I	II	I	II	I	II	I	II
#3	8	12	19	28	14	21	24	36	19	28
#4	11	15	25	37	19	28	32	48	25	37
#5	14	19	31	46	24	36	40	60	31	46
#6	17	23	37	55	28	43	48	72	37	55
#7	19	27	54	81	42	62	70	105	54	81
#8	22	30	62	92	47	71	80	120	62	92
#9	25	34	70	104	54	80	90	136	70	104
NOTATION USED ON	• LCE	• LCS	• LTE					• LTS		

SEISMIC LOAD PROVISIONS PER NYC-BC		
ITEM	DESCRIPTION / MAGNITUDE	CODE REFERENCE
DESIGN SPECTRA RESPONSE (S _{DS}) DESIGN SPECTRA RESPONSE (S _{DI})	S _{DS} = 0.367 S _{DI} = 0.114	NYC-BC EQ. No 16-40 NYC-BC EQ. No 16-41
SITE (SOIL) CLASS DEFINITION	D	NYC-BC TABLE No 1615.1.1
IMPORTANCE FACTOR	I = 1.0	NYC-BC TABLE No 1604.5
BASIC STRUCTURAL SYSTEM	BUILDING FRAME SYSTEM- ORDINARY STEEL CONCENTRICALLY BRACED FRAMES	
COEFFICIENT R	R = 3	NYC-BC TABLE No 16176.2
ANALYSIS PROCEDURE	EQUVALENT STATIC LATERAL FORCE	
THE DESIGN DETAILS AND NOTES INCLUDED HEREIN ARE IN COMPLIANCE WITH LOCAL LAW 17/95		

C. M. U. WALL REINFORCEMENT SCHEDULE				
	FLOOR	VERTICAL REINFORCEMENT	GROUTED CORES	PLAN VIEW OF MASONRY WALL REINFORCED
WALL	FIRST AND PARAPETS	1 - #5 @ 48" O.C. OR 2 - #4 @ 48" O.C. (SPUCE 30 DIAMETERS)	FULL	

LOAD SCHEDULE				
ITEM	LIVE LOAD	DEAD LOAD	MISC.	TOTAL (PSF)
ROOF	30	20	5	55
FIRST FLOOR	100	100	N/A	200

REVISION	DATE	BY	DESCRIPTION



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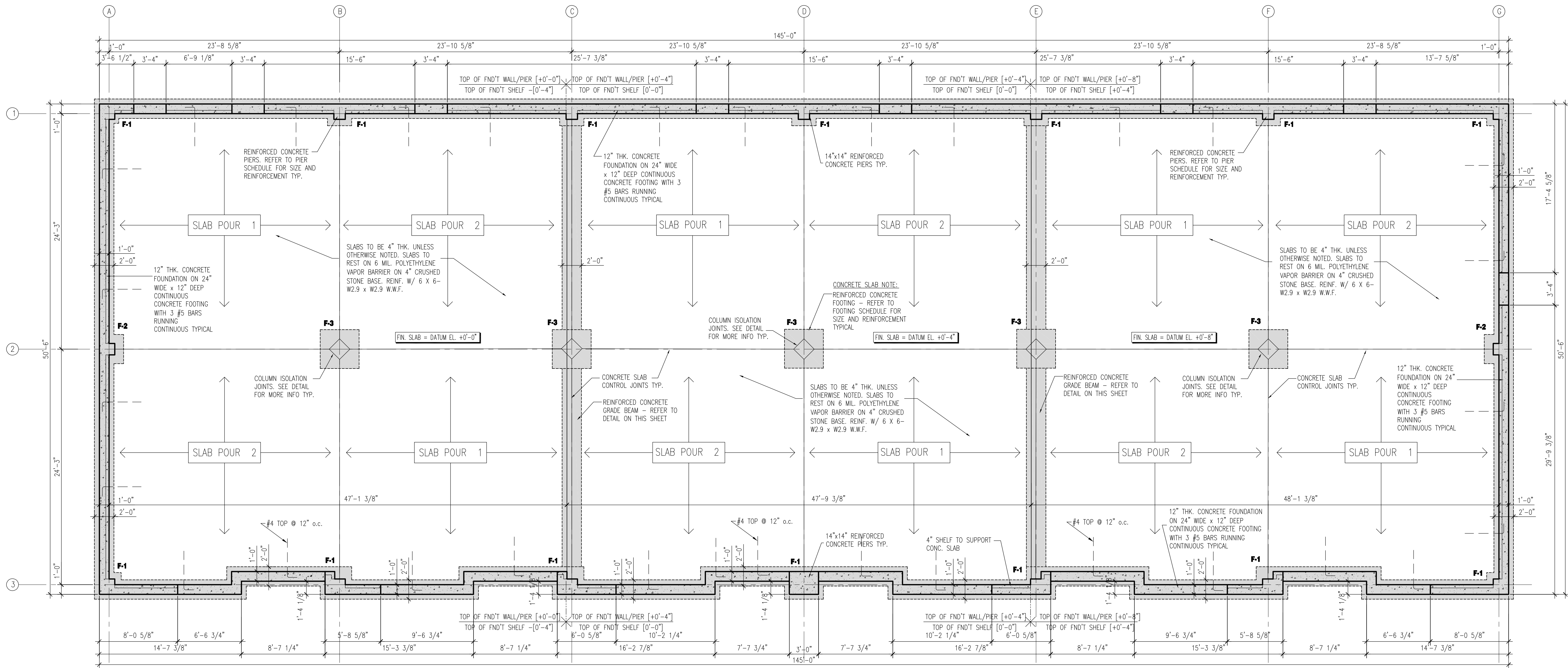
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PROJECT
ONE STORY RETAIL BUILDING
TARGEET STREET
STATEN ISLAND NY

STRUCTURAL NOTES

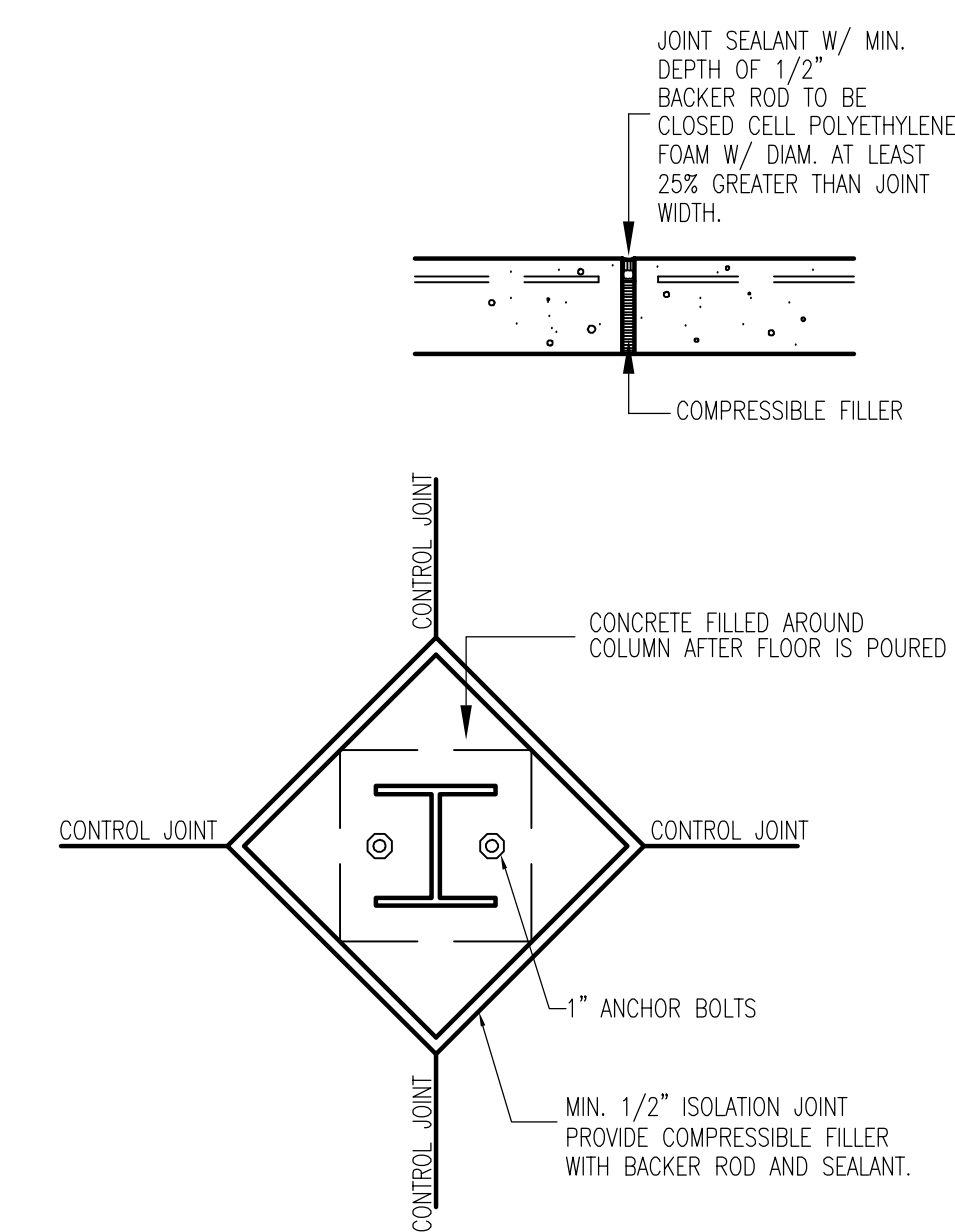
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	PROJECT NO.	8100
	DRAWING BY	DJK
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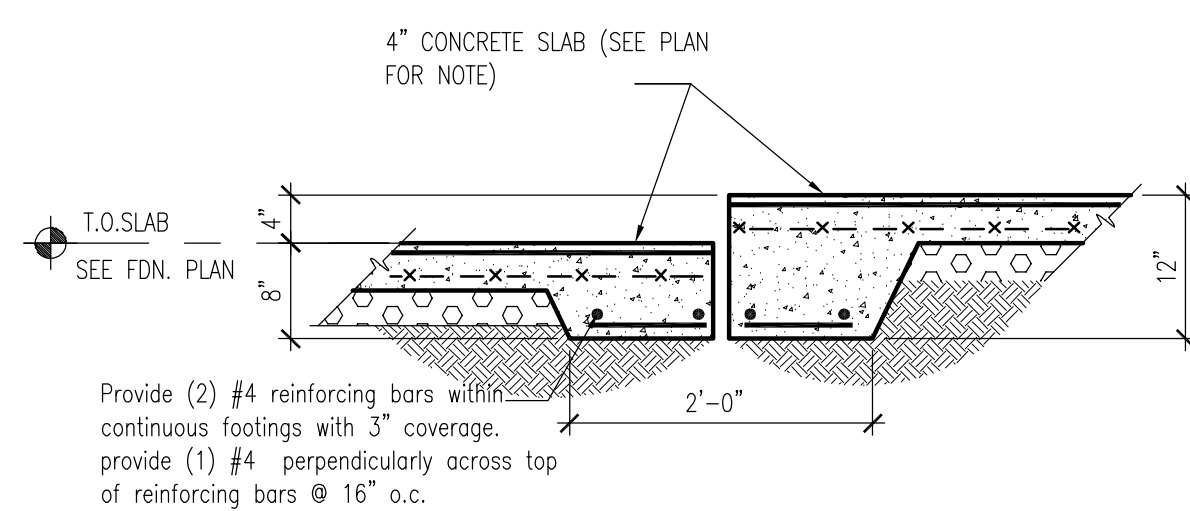
FOUNDATION PLAN

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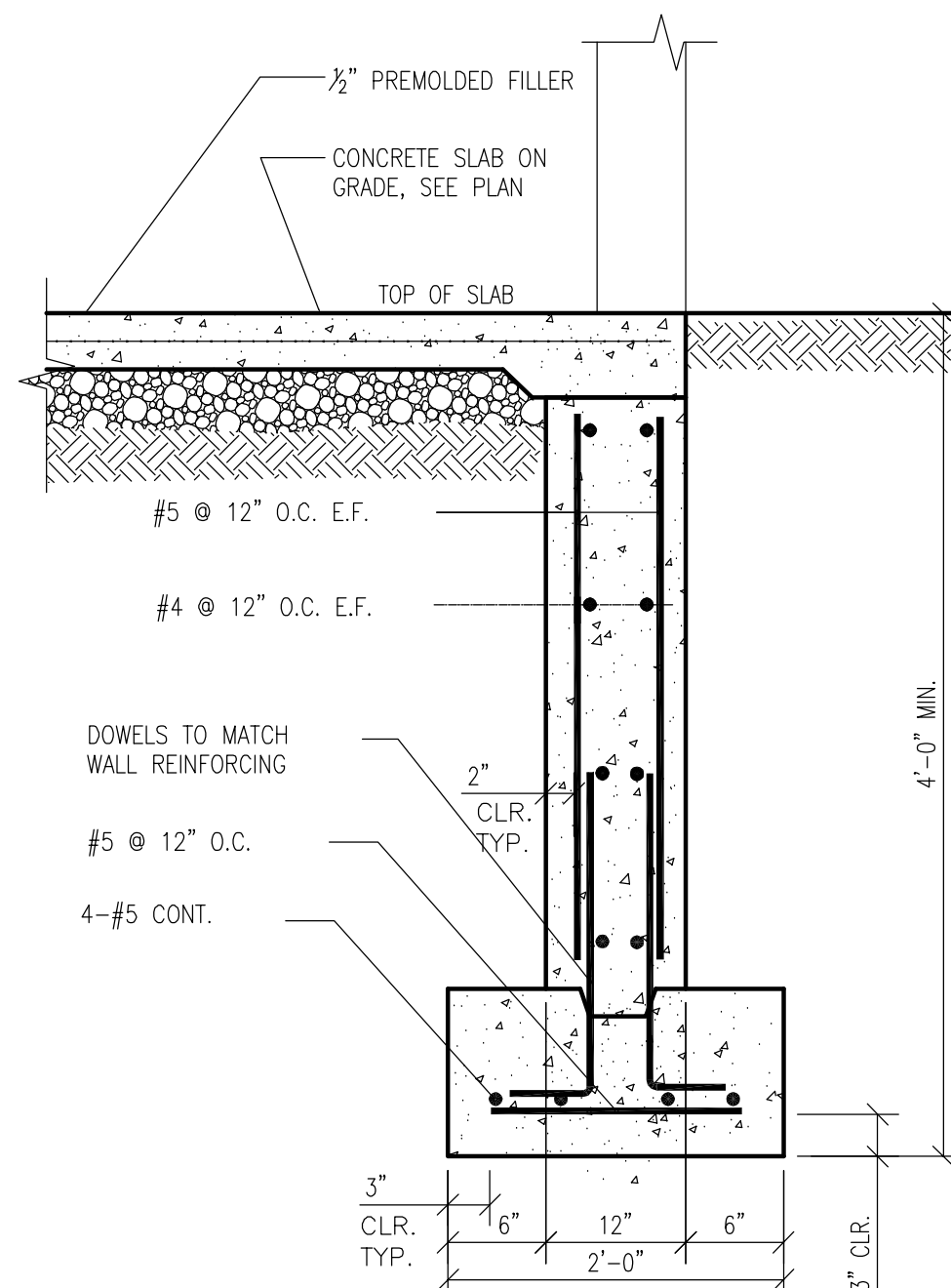
1 SECTION

N.T.S.



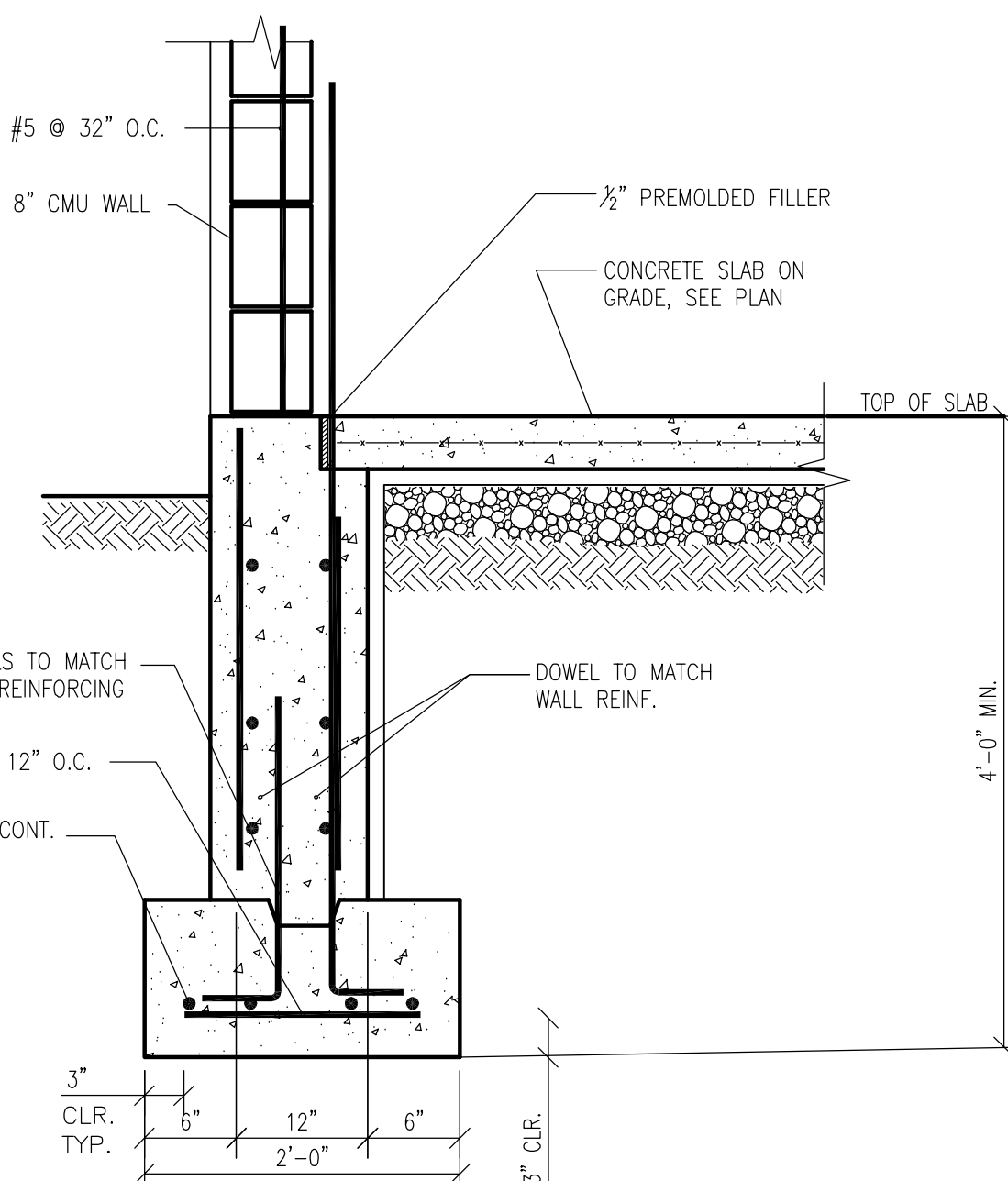
2 GRADE BEAM

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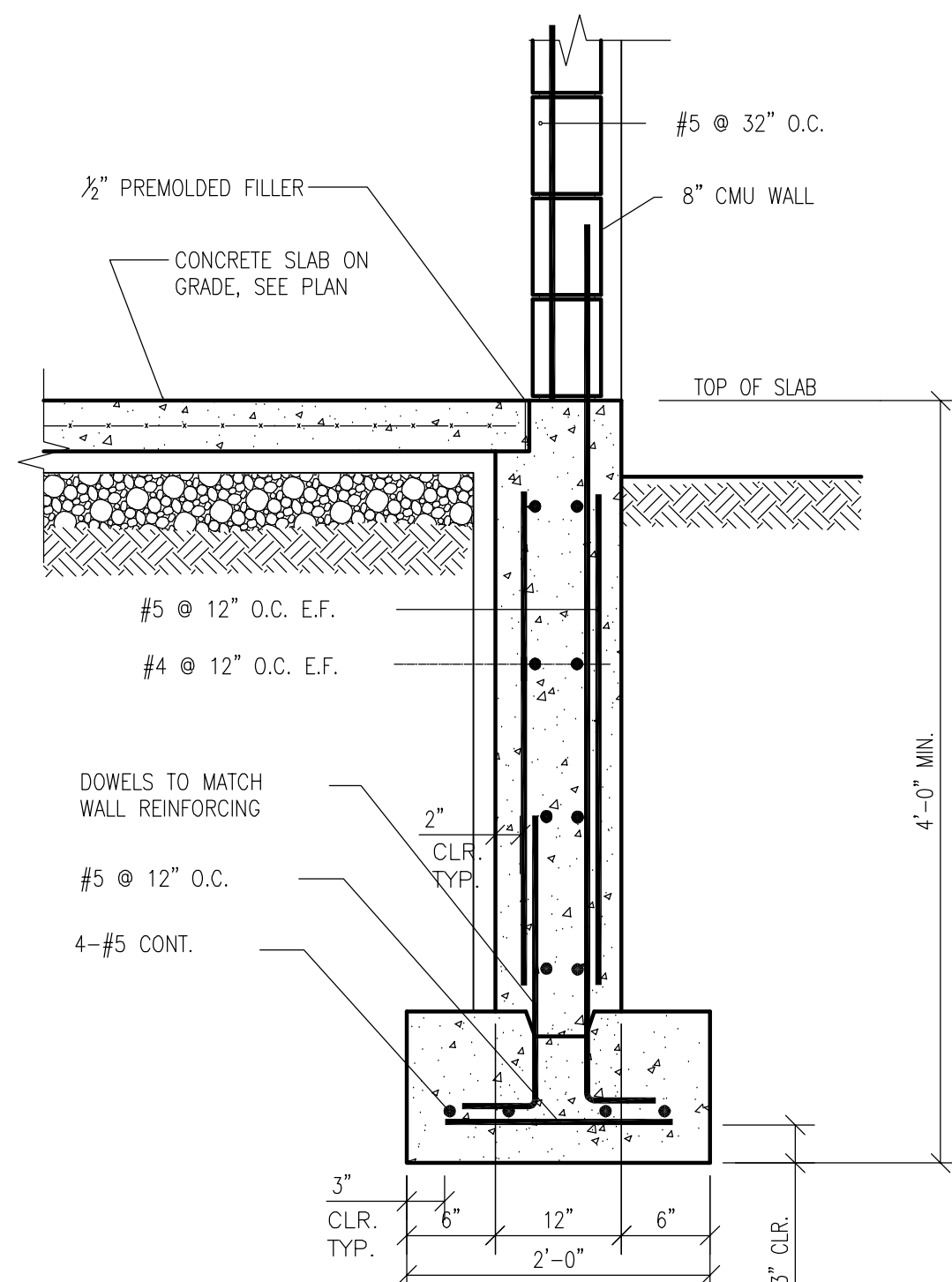
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4 SECTION

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5 SECTION

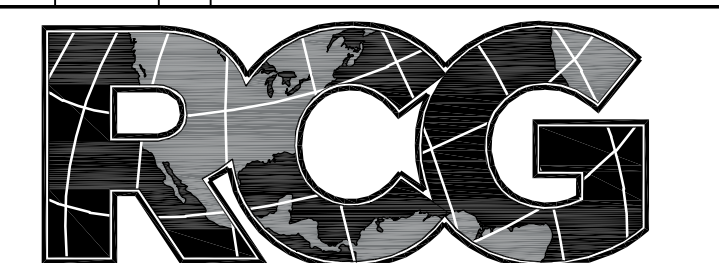
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FOOTING SCHEDULE			
MARK	SIZE	DEPTH	REINFORCEMENT
F1	2'-6"x2'-6"	1'-6"	3#5 EACH WAY
F2	3'-0"x3'-0"	1'-6"	5#5 EACH WAY
F3	4'-0"x4'-0"	1'-6"	7#5 EACH WAY

FOOTING NOTE:
BOTTOM OF ALL FOOTINGS AROUND EXTERIOR OF BUILDING SHALL BE MINIMUM 4'-0" BELOW ADJACENT FINISHED GRADE OR TO MINIMUM SOIL BEARING OF 2 TONS PER SQUARE FOOT. REFER TO SOIL BORING LOGS PREPARED BY SOILS ENGINEER FOR MORE INFO. REFER TO SITE PLAN FOR ALL FINISHED GRADES AROUND THE BUILDING. ELEVATIONS IN BRACKETS [+0'-0"] ARE REFERENCED FROM DATUM ELEVATION TYPICAL.

EXPANSION JOINT NOTE:
LOCATION OF EXPANSION JOINTS FOR REINFORCED CONCRETE RETAINING / FOUNDATION WALL SHALL BE PLACED NO MORE THAN 75 FT. o.c.
RECOMMENDED LOCATIONS TO BE PLACED AT COLUMN PIER LOCATIONS (COORDINATE WITH FIELD CONDITIONS TYPICAL).

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PROJECT
**ONE STORY RETAIL BUILDING
TARGEET STREET
STATEN ISLAND NY**

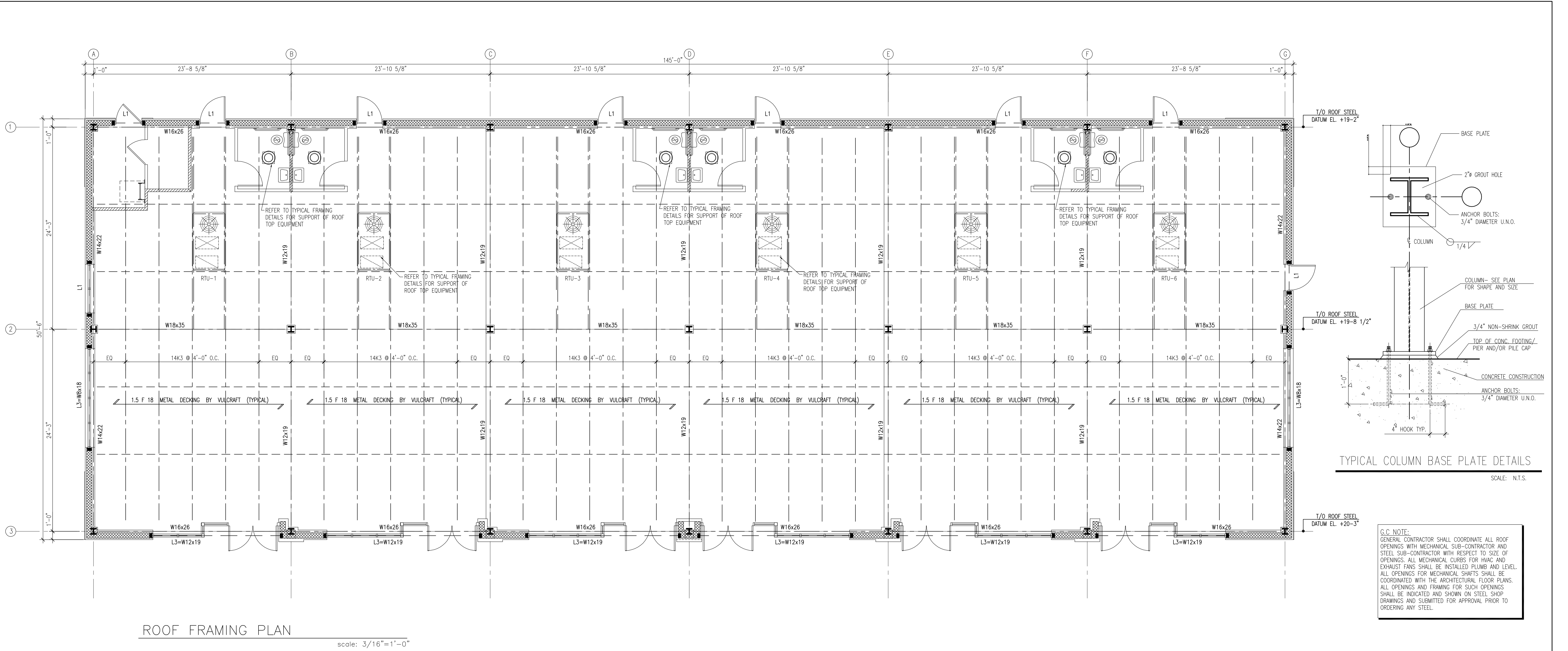
DRAWING TITLE
FOUNDATION PLAN

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	PROJECT NO.	8100
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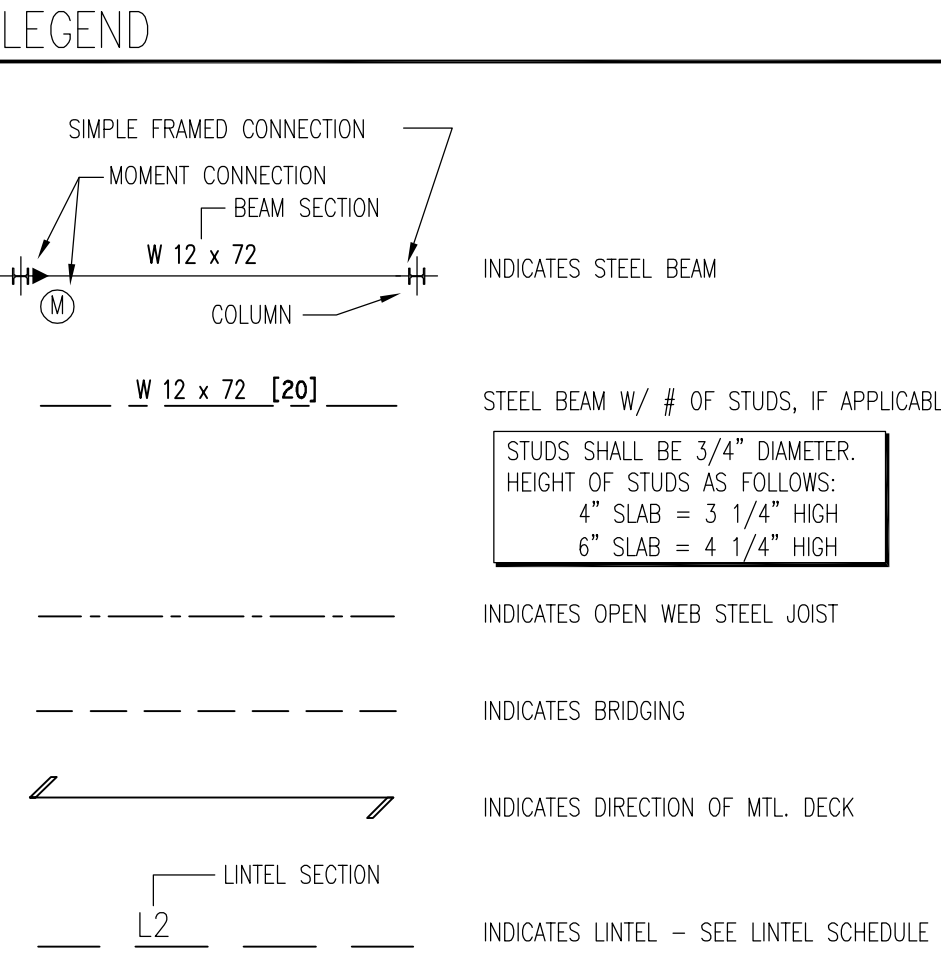


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COLUMN SCHEDULE																		
COL. TAG	A			B			C			D			E			F		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
LEVEL																		
MAIN ROOF DATUM (VARIES)	19'-2"	19'-8 1/2"	20'-3"	19'-2"	19'-8 1/2"	20'-3"	19'-2"	19'-8 1/2"	20'-3"	19'-2"	19'-8 1/2"	20'-3"	19'-2"	19'-8 1/2"	20'-3"	19'-2"	19'-8 1/2"	20'-3"
	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31	W 8 x 31
FIRST FLOOR DATUM +0'-0"	T/O WALL	T/O WALL	T/O WALL	T/O WALL	T/O WALL	T/O WALL	+4" T/O WALL	+4" T/O WALL	+4" T/O WALL	+4" T/O WALL	+4" T/O WALL	+4" T/O WALL	+8" T/O WALL	+8" T/O WALL	+8" T/O WALL	+8" T/O WALL	+8" T/O WALL	+8" T/O WALL
BASE PLATE	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"



LOOSE LINTEL SCHEDULE			
MARK	SIZE		
L1	WALL THICKNESS	UNDER 4'-0" OPENING	4'-0" TO 8'-0" OPENING
	4"	(1) L 4"x3 1/2"x5/16"	(1) L 4"x3 1/2"x3/8"
	6"	(1) L 5"x3 1/2"x5/16"	(1) L 5"x5"x3/8"
	8"	(2) Ls 4"x3 1/2"x5/16"	(2) Ls 4"x3 1/2"x3/8"
L2	12"	(1) L 4"x3 1/2" x5/16" + (2) Ls 4"x3 1/2"x5/16"	(1) L 8"x4"x1/2" + (1) L 8"x6"x1/2" +
L3	10'-1" TO 14'-0" OPENING		
	W 10 X 30		
L3	CUSTOM DESIGNED OPENING		
	W SECTION + PLATE. SEE PLAN FOR SIZE		

REVISION

REVISION	DATE	BY	DESCRIPTION

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PROJECT
ONE STORY RETAIL BUILDING
TARGE STREET
STATEN ISLAND NY

DRAWING TITLE
ROOF FRAMING PLAN

SEAL & SIGNATURE

DATE
01/10/20

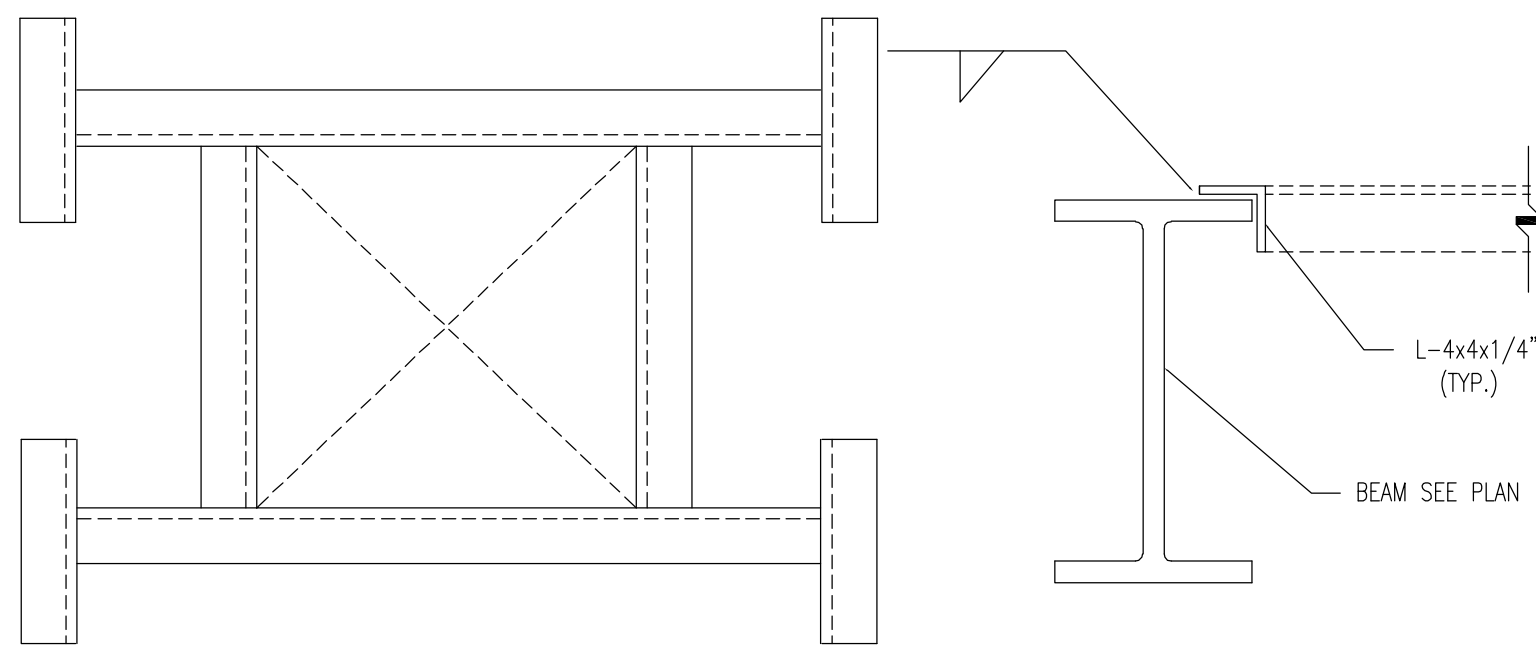
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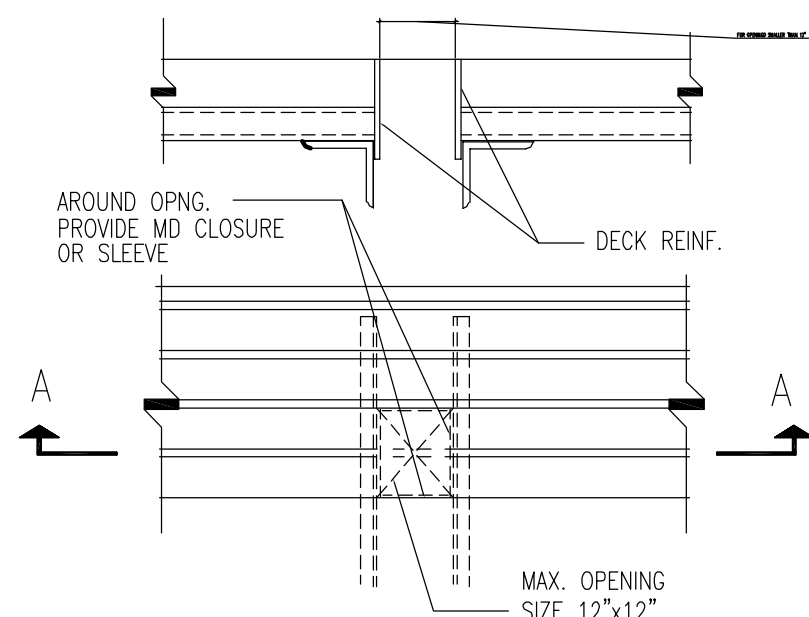
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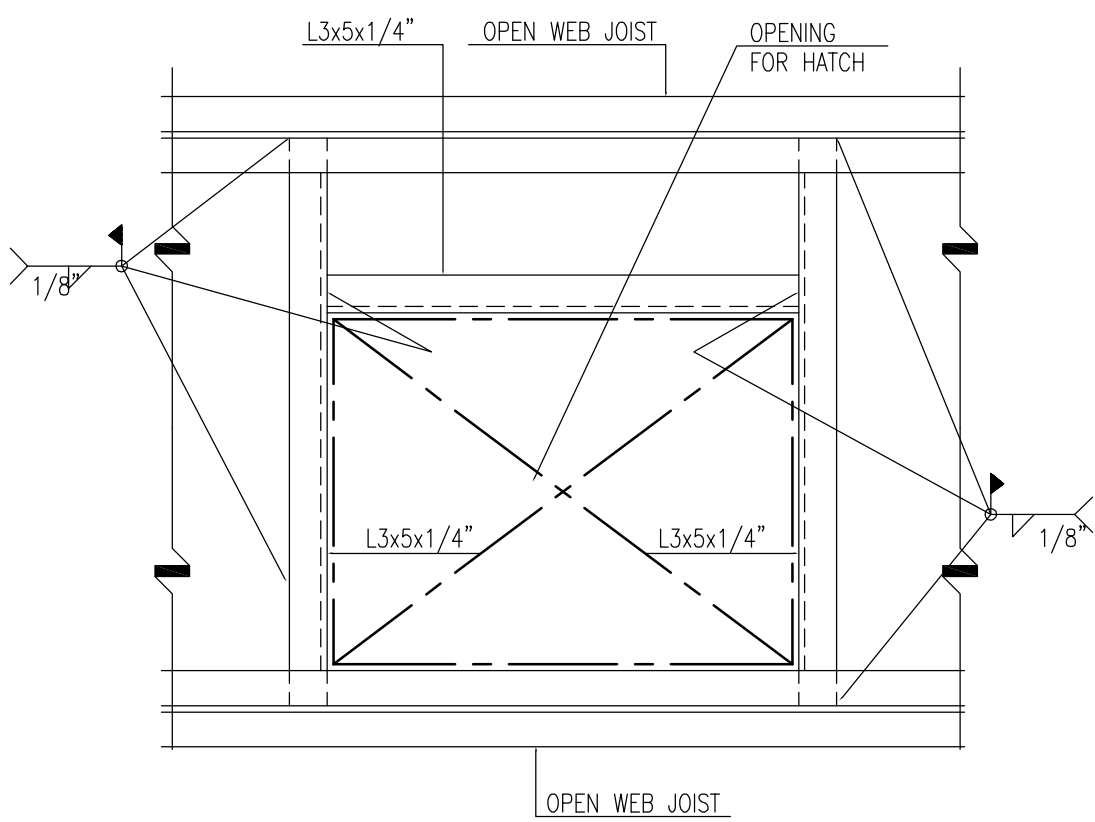
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TYPICAL DETAIL @ LARGE ROOF OPENINGS (GREATER THAN 12")

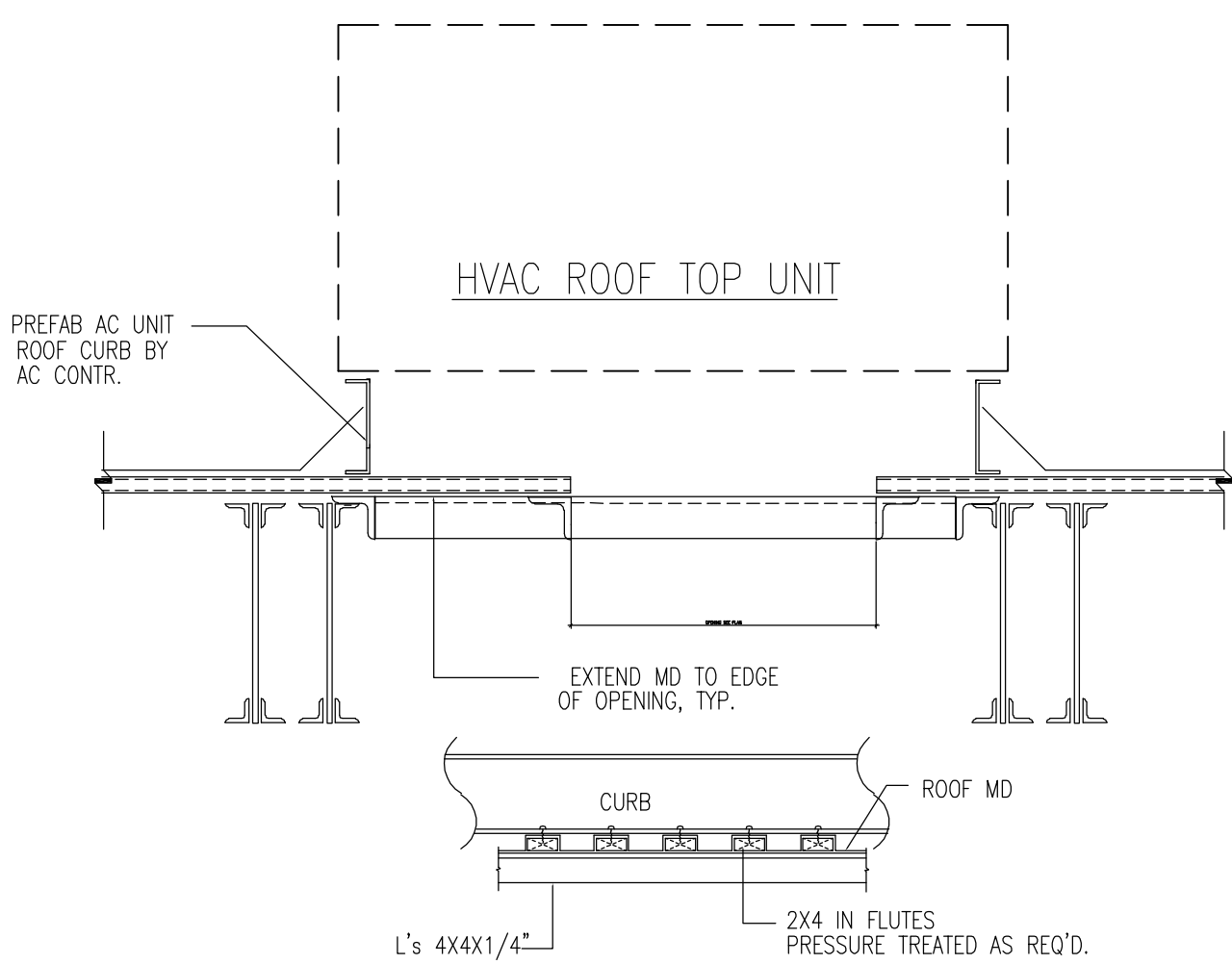


TYPICAL DETAIL @ SMALL ROOF OPENINGS (LESS THAN 12")



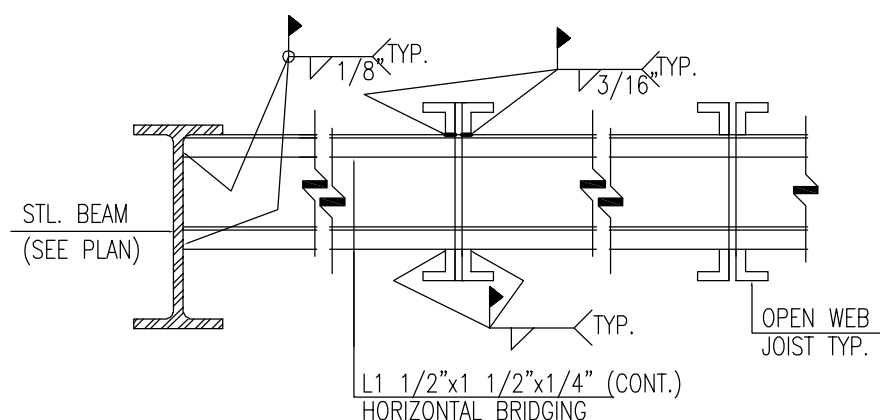
TYPICAL ROOF HATCH DETAIL

SCALE: 1" = 1' - 0"

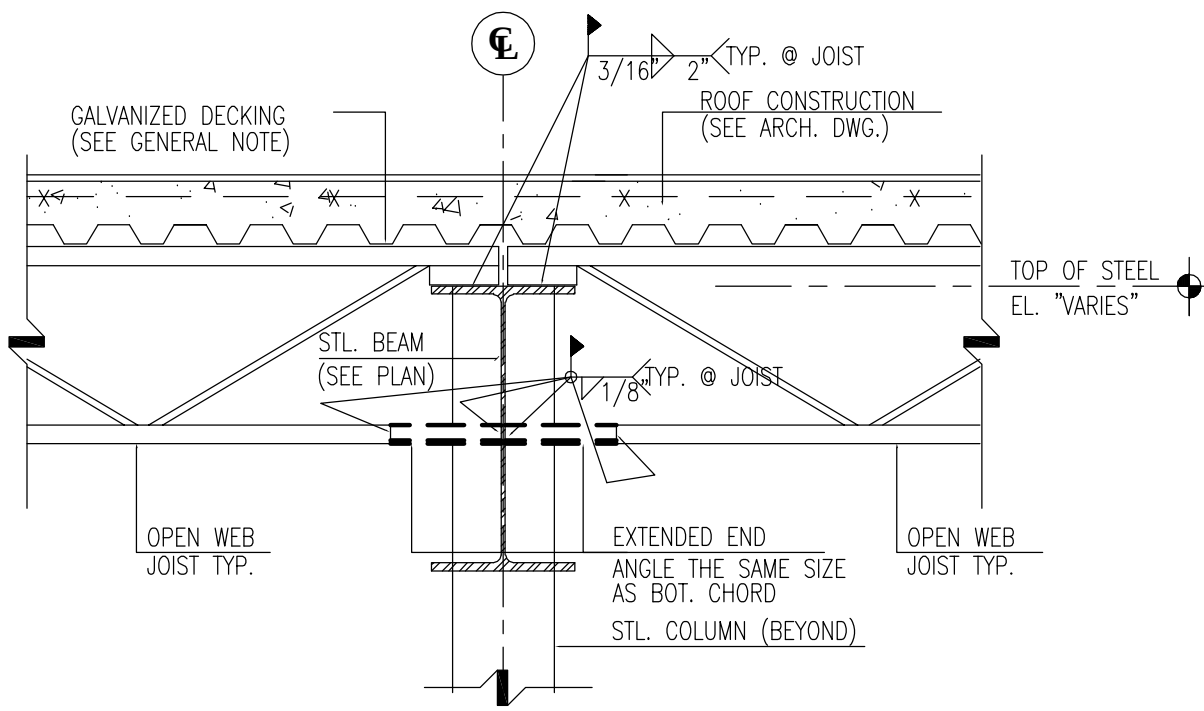


TYPICAL HVAC UNIT SUPPORT AT ROOF CURB

SCALE: N. T. S.

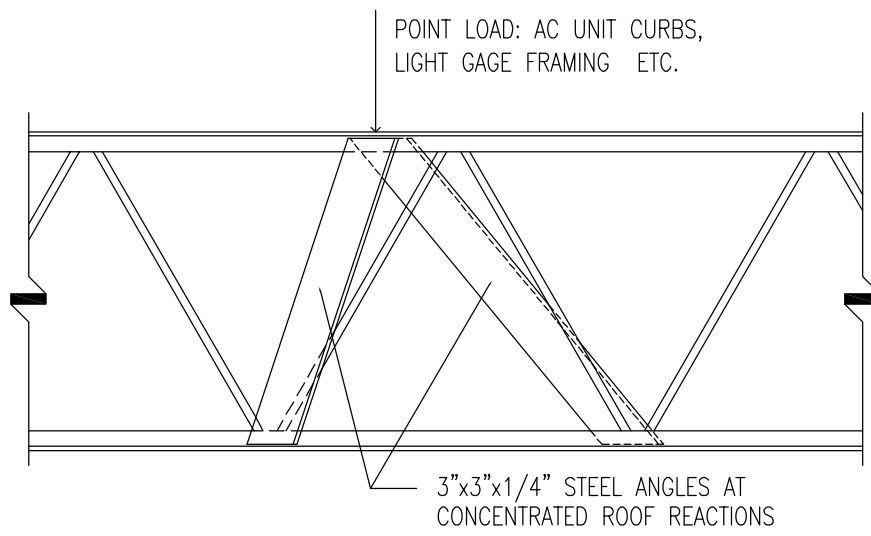


NOTE:
DO NOT WELD BRIDGING TO JOIST WEB MEMBERS.
DO NOT HANG ANY MECHANICAL, ELECTRICAL, ETC. FROM BRIDGING.



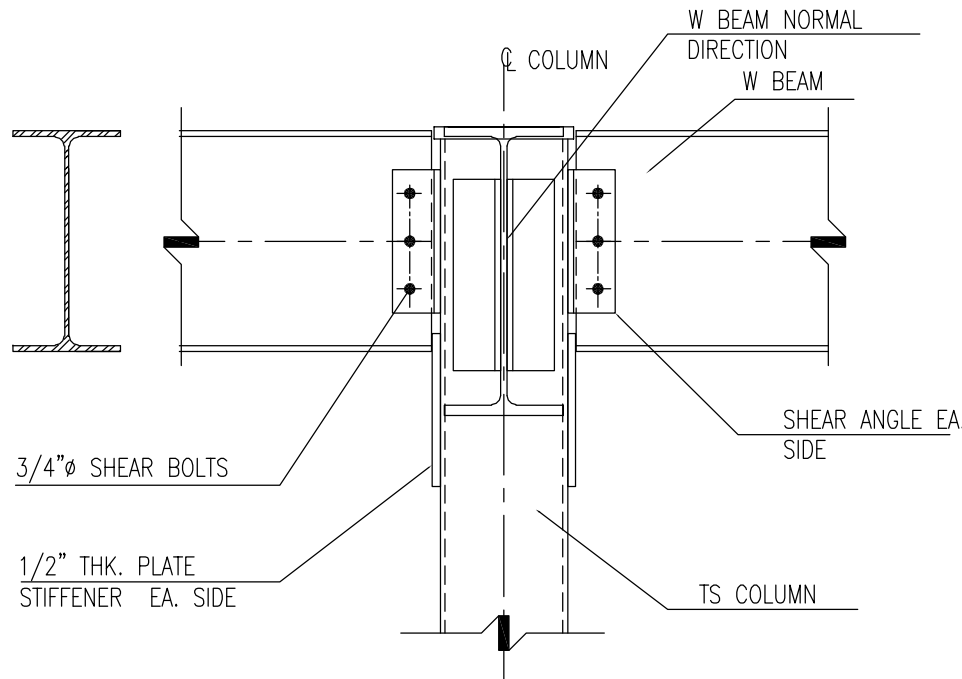
TYPICAL BRIDGING DETAIL

SCALE: N. T. S.

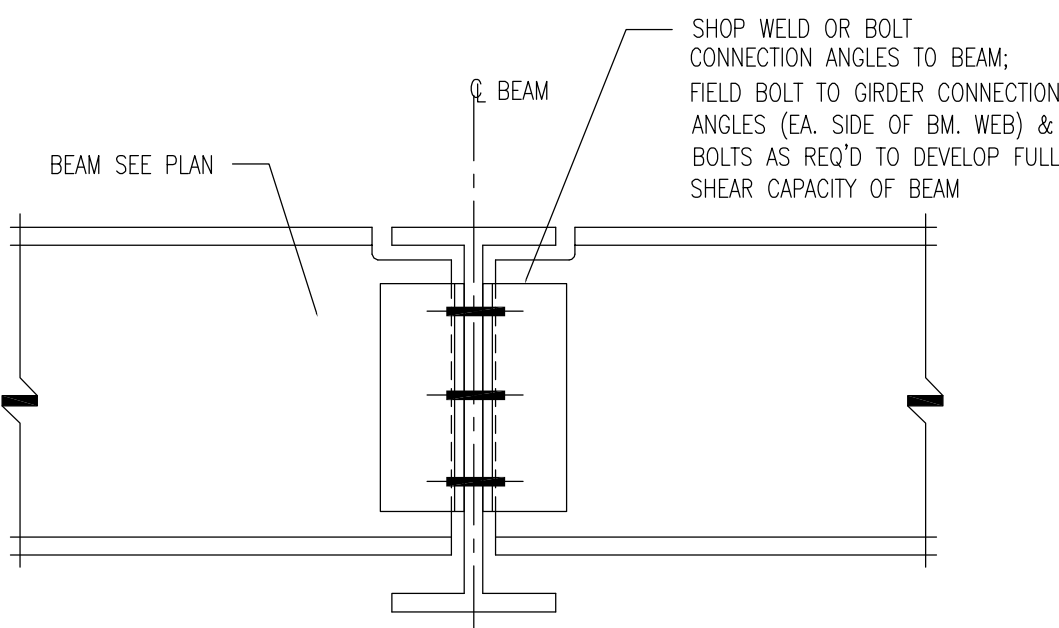


TYPICAL JOIST REINFORCEMENT DETAIL

SCALE: N. T. S.

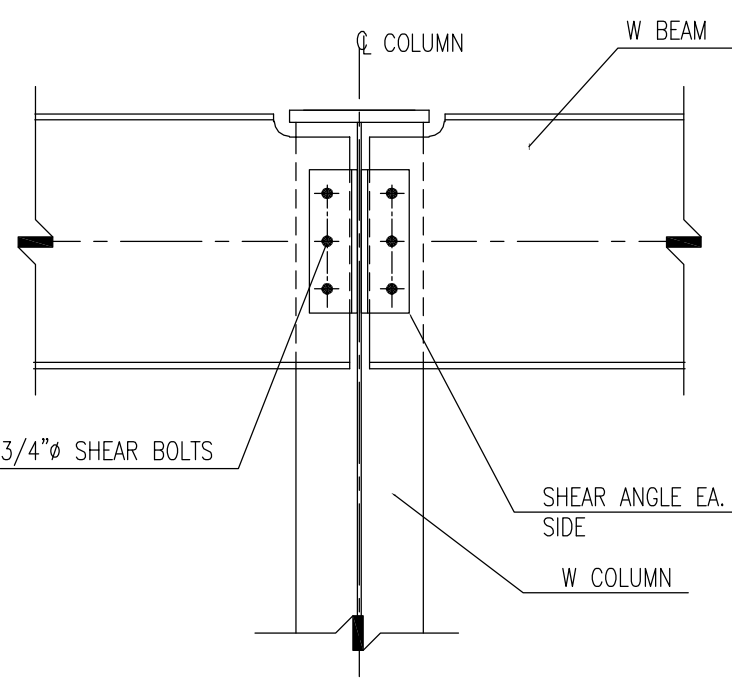


TUBE STEEL COLUMNS



TYPICAL BEAM TO GIRDER CONNECTION

SCALE: 1" = 1' - 0"



WIDE FLANGE COLUMNS

NOTES:

- ALL MEMBERS TO HAVE FULL CAPACITY SHEAR CONNECTIONS:
 - FOR NON-COMPOSITE BEAMS, REACTION FROM AISC UNIFORM LOAD TABLES FOR BEAMS
 - MINIMUM NUMBER OF BOLT ROWS AND MINIMUM CONNECTION CAPACITY - SEE TABLE
- BOLTS SHALL BE 3/4" DIAMETER A325 MINIMUM (U.O.N.).
- ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
- PROVIDE WEB REINFORCING AS REQUIRED DUE TO WEB CUTS, COPES AND ETC.
- DESIGN OF DOUBLE ANGLE AND SHEAR PLATE CONNECTIONS SHALL BE BASED UPON THE LATEST AISC PROCEDURES SHOWN IN THE AISC MANUAL OF STEEL CONSTRUCTION VOLUME II CONNECTIONS.
- DETAILER SHALL SUBMITS DESIGN PROCEDURE AND CALCULATIONS TO ENGINEER OF RECORD FOR APPROVAL.

TYPICAL SHEAR CONNECTION DETAILS

SCALE: N. T. S.

MIN. No OF BOLTS AND MIN. CONNECTION CAPACITY		
BEAM SIZE	"N"	"V"
W18	3	30
W16	3	30
W14	3	30
W12	2	20
W10	2	20
W8	2	20

"N" -MINIMUM NUMBER OF BOLT ROWS
"V" -MINIMUM CONN. SERVICE LOAD CARRYING CAPACITY IN KIPS. U.O.N.
THIS TABLE APPROVED FOR DOUBLE ANGLE CONNECTION

REVISION	DATE	BY	DESCRIPTION



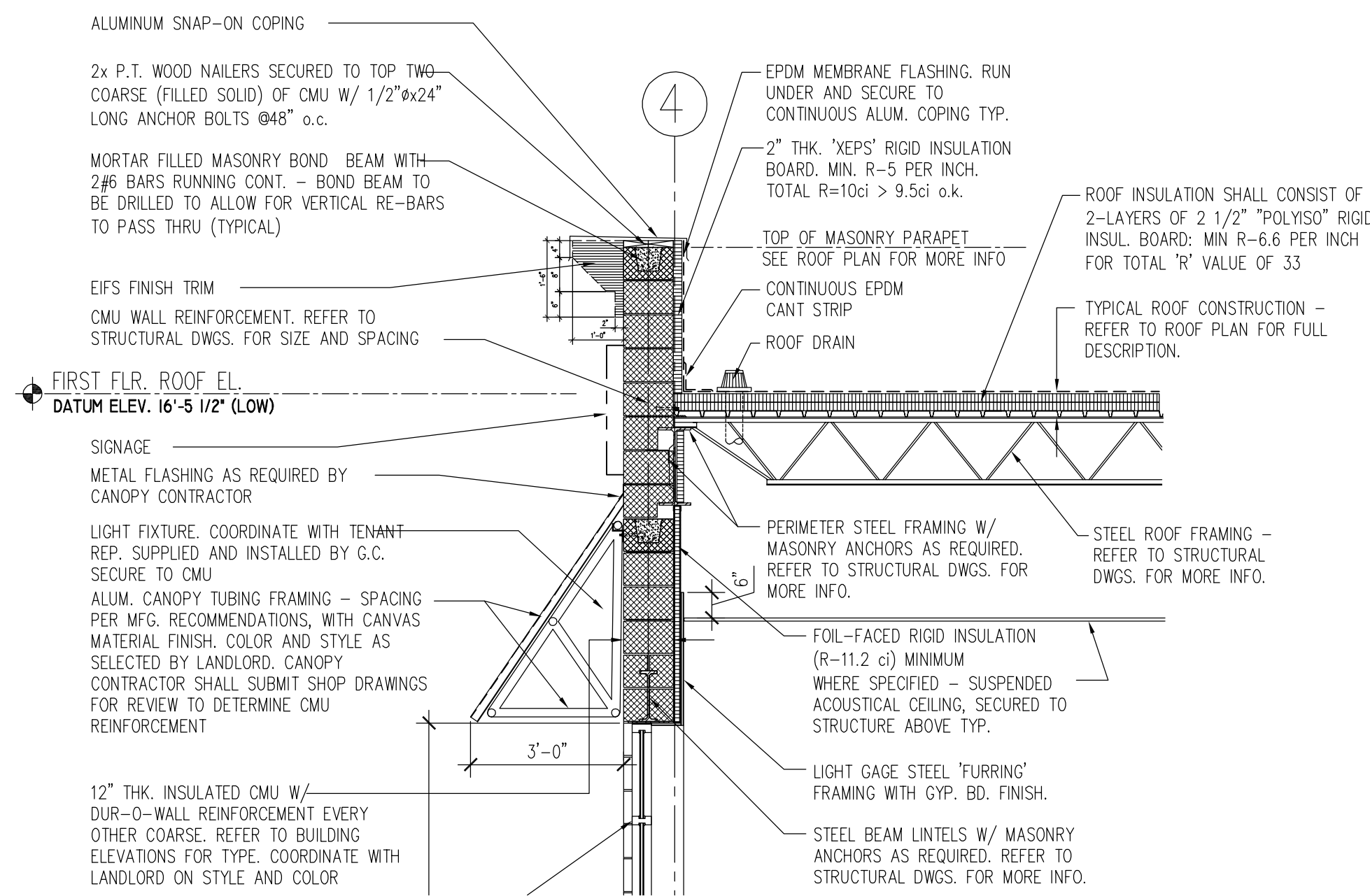
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www.rcgllc.net pcalvanico@rcgllc.net

PROJECT
ONE STORY RETAIL BUILDING
TARGEET STREET
STATEN ISLAND NY

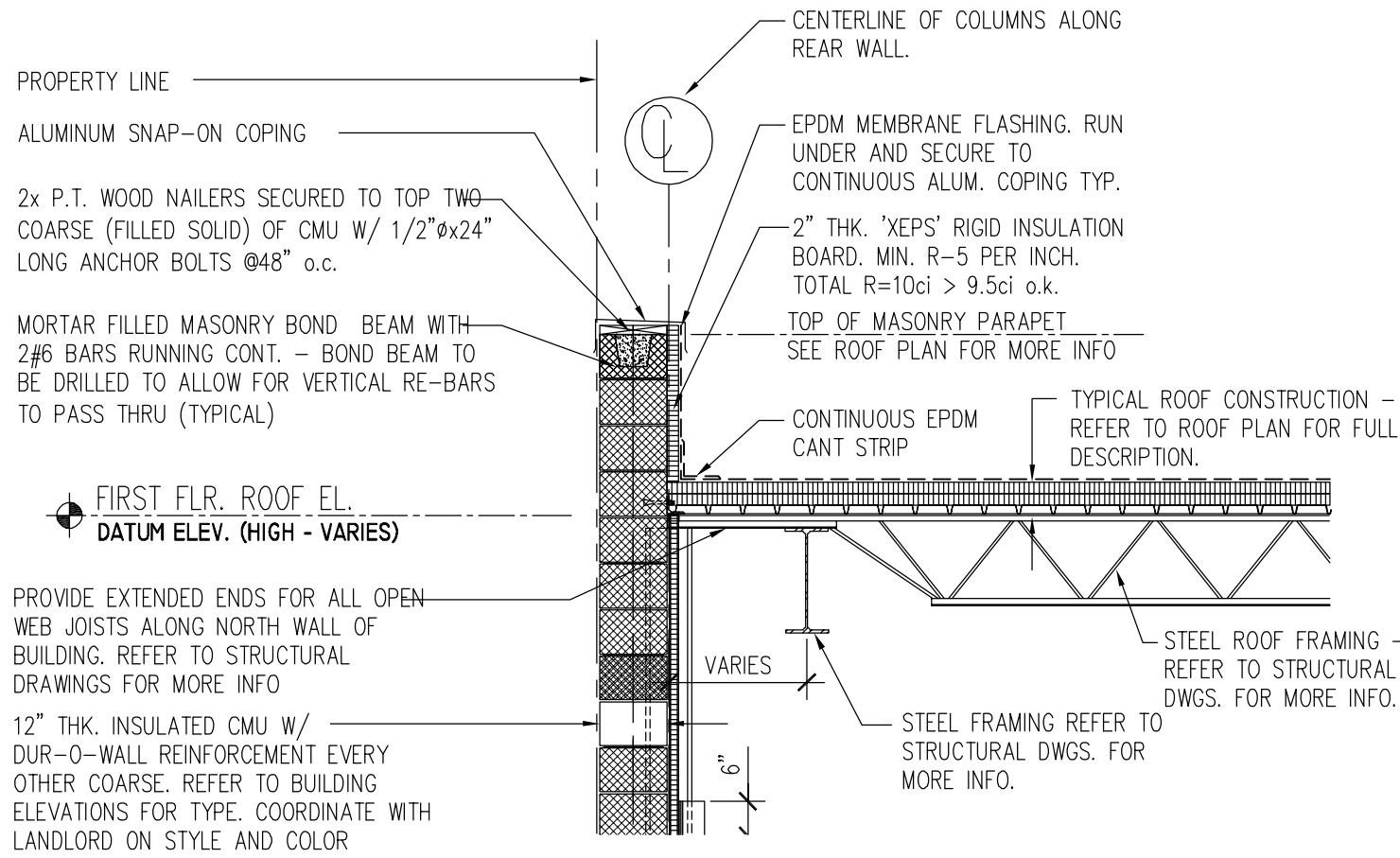
DRAWING TITLE
STEEL DETAILS

SEAL & SIGNATURE	DATE	01/10/20
	PROJECT NO.	8100
	DRAWING BY	DJK
	CHECKED BY	
	DRAWING NO.	
S-005.00		
CAD FILE No:		5 OF 6
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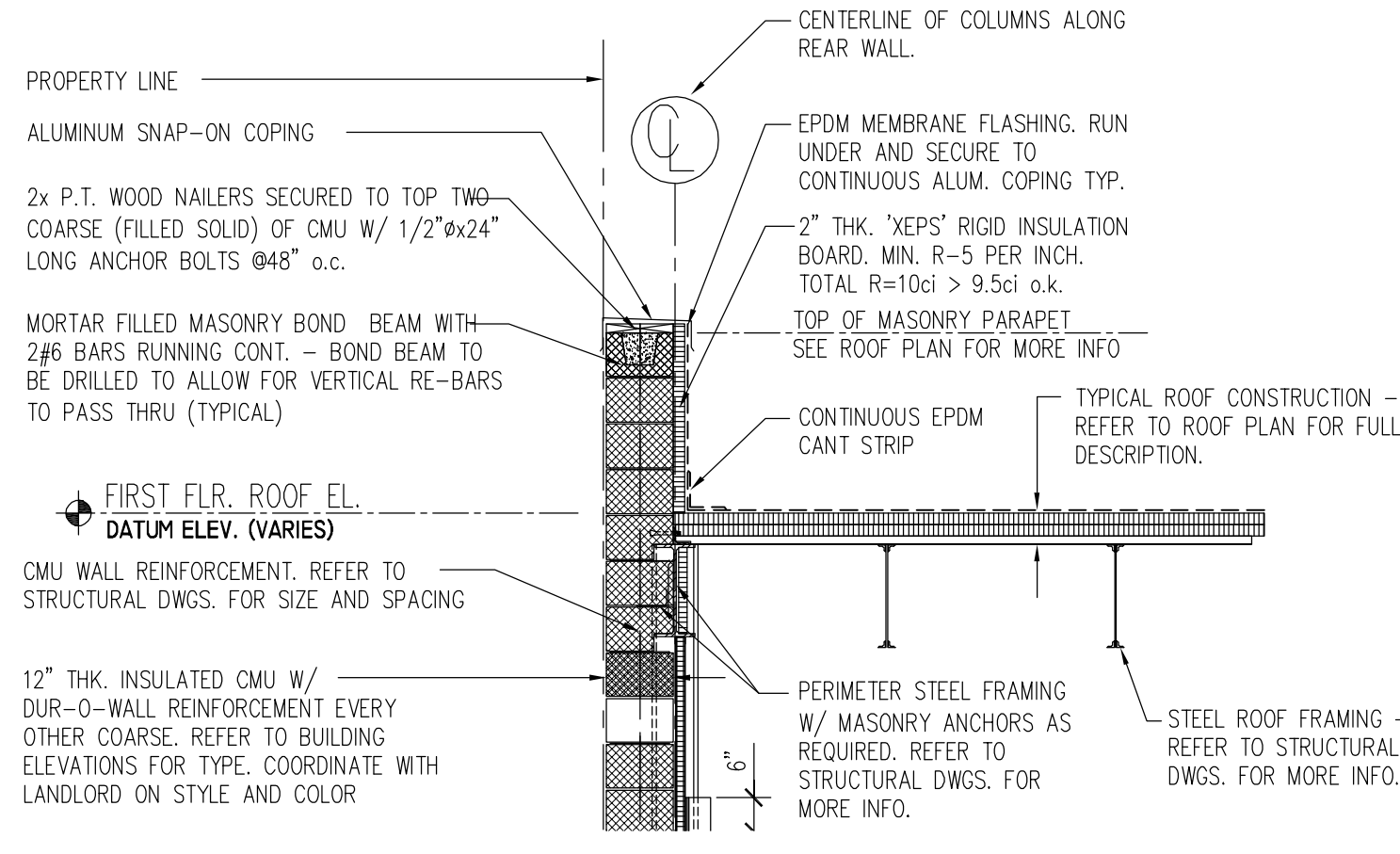
SECTION DETAIL @ CANOPY

SCALE: N. T. S.



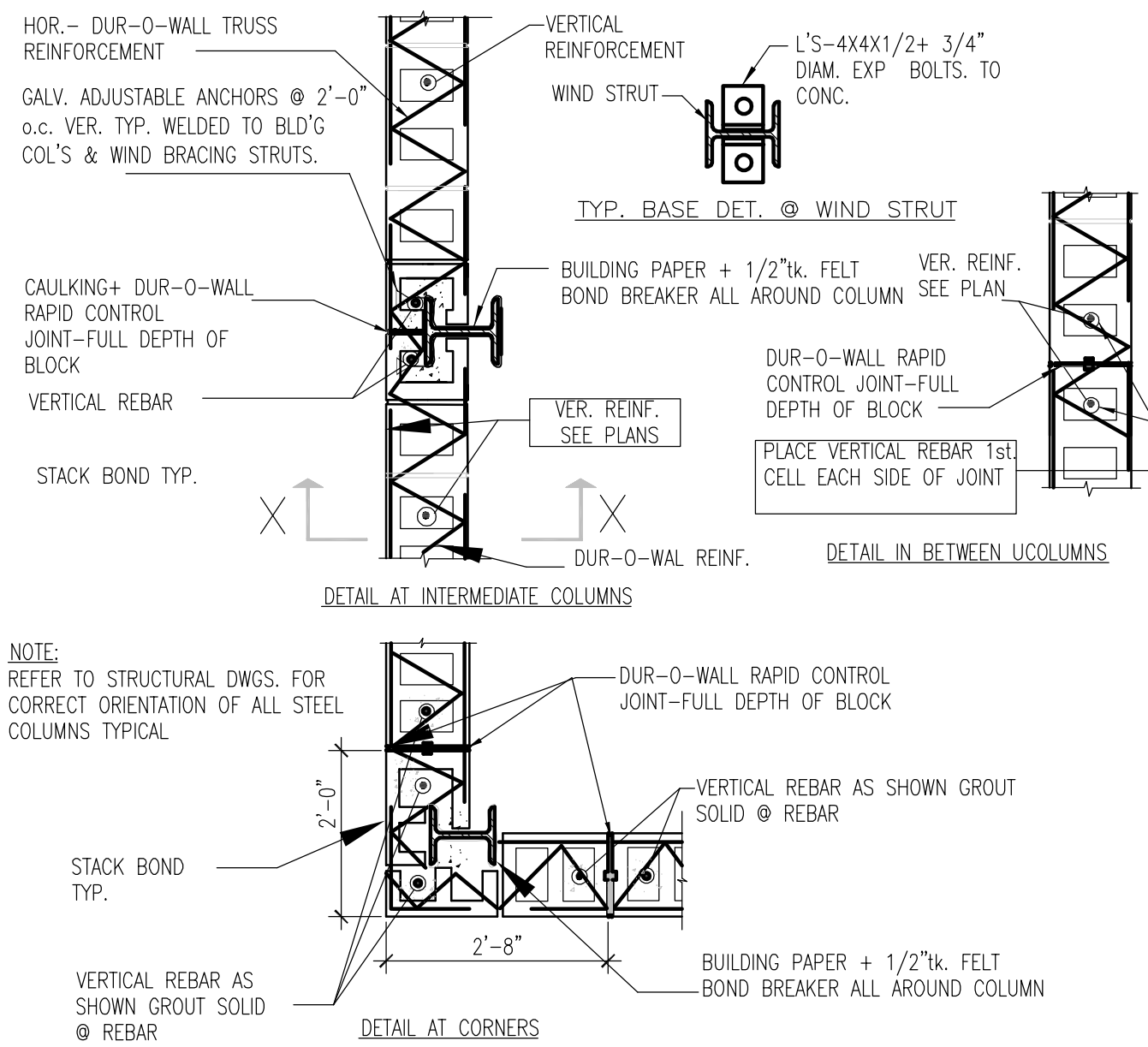
TYPICAL DETAIL

SCALE: N. T. S.



TYPICAL DETAIL

SCALE: N. T. S.



TYPICAL MASONRY CONTROL JOINT DETAIL

SCALE: N. T. S.

REVISION	DATE	BY	DESCRIPTION



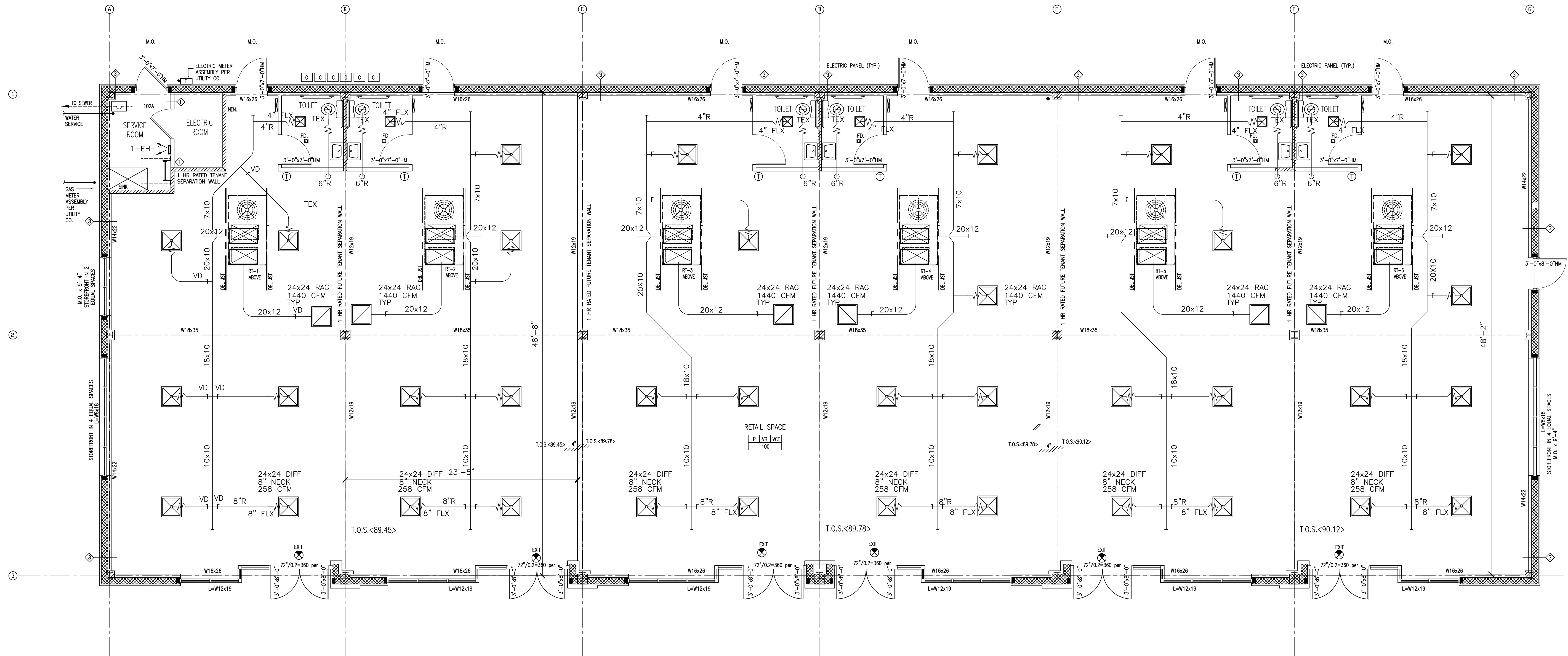
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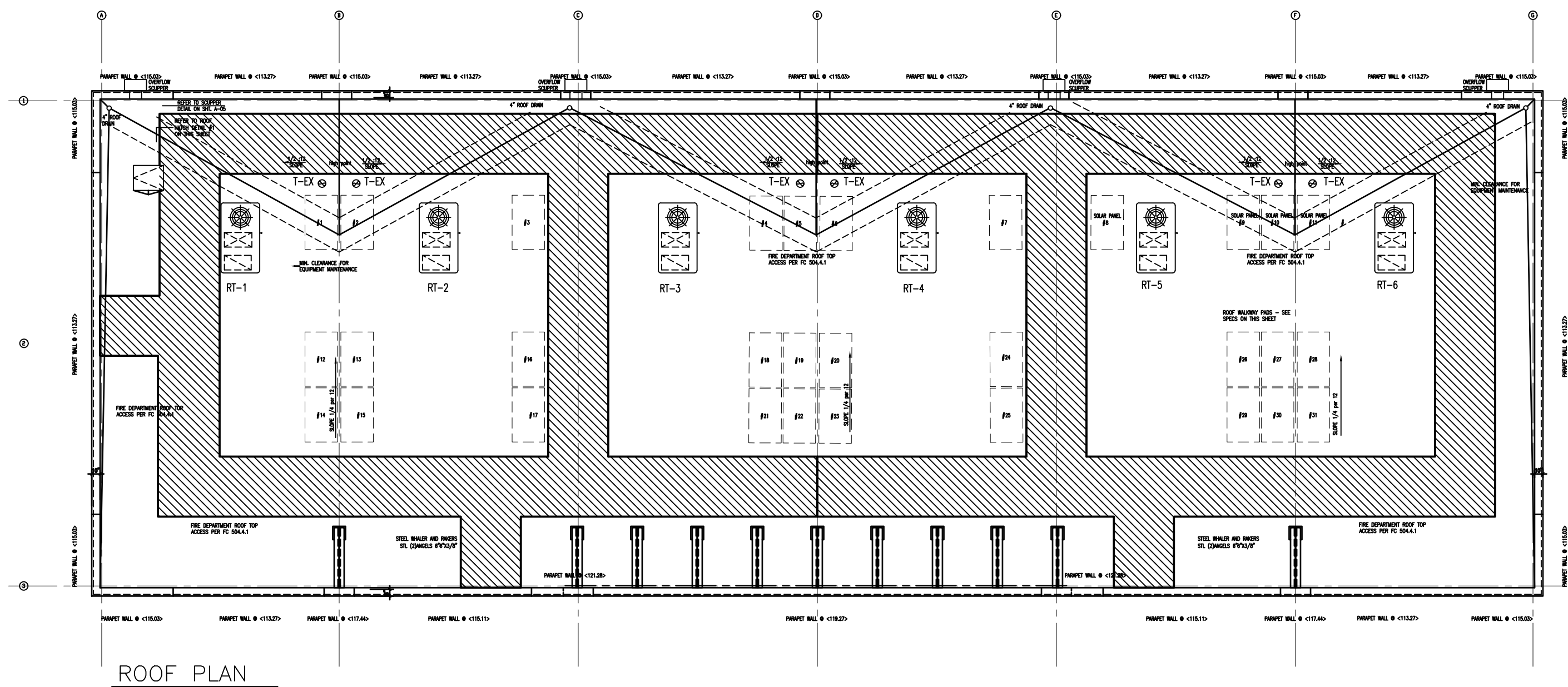
PROJECT
**ONE STORY RETAIL BUILDING
TARGEET STREET
STATEN ISLAND NY**

DRAWING TITLE
STRUCTURAL SECTIONS

SEAL & SIGNATURE	DATE	01/10/20
	PROJECT NO.	8100
	DRAWING BY	DJK
	CHECKED BY	
	DRAWING NO.	
S-006.00		
CAD FILE No:		6 OF 6
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1ST FLOOR PLAN
scale: 1/4"=1'-0"



ROOF PLAN

BLOCK INFO:

BLOCK	02903	SPECIAL SOUTH RICHMOND DISTRICT	OUTSIDE
ZONING DISTRICT	00013	DESIGNATED OPEN SPACE	OUTSIDE
ZONING MAP	R3A / C1-2	NATURAL AREA DISTRICT	OUTSIDE
COMMUNITY BOARD	21d	SPECIAL HILLSIDE DISTRICT	OUTSIDE
LOT AREA	501	WETLANDS ADJACENT AREA	OUTSIDE
USE GROUP:	19,672.00 SF	FLOOD HAZARD	OUTSIDE
OCCUPANCY CLASS:	6	FIRE DISTRICT	OUTSIDE
CONSTRUCTION CLASS:	M		
	TYPE 2B		

SCOPE OF WORK

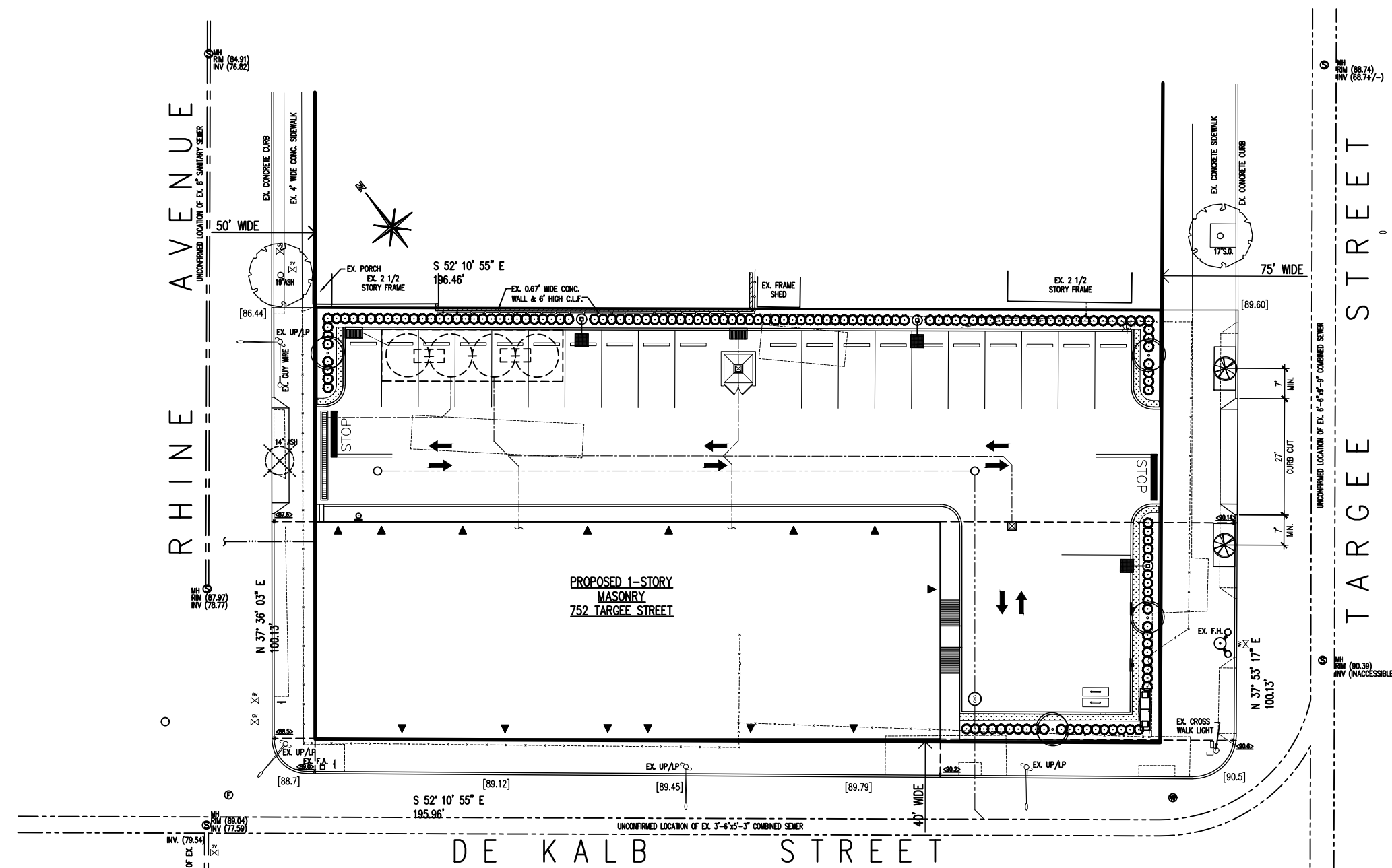
HVAC PLAN FOR NEW (1) STY COMMERCIAL BUILDING

INSPECTIONS

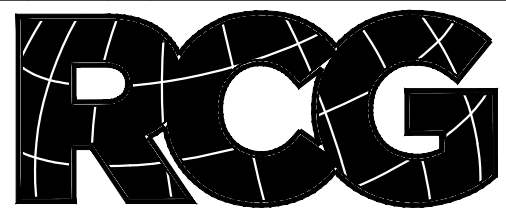
MECHANICAL SYSTEMS	BC 1704.16
ENERGY CODE	BC 110.3.5
FINAL INSPECTION	BC 110.5

ENERGY CODE INSPECTIONS

HVAC AND SERVICE WATER HEATING EQUIPMENT	IEB3
HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	IEB4
MAINTENANCE INFORMATION	ID1

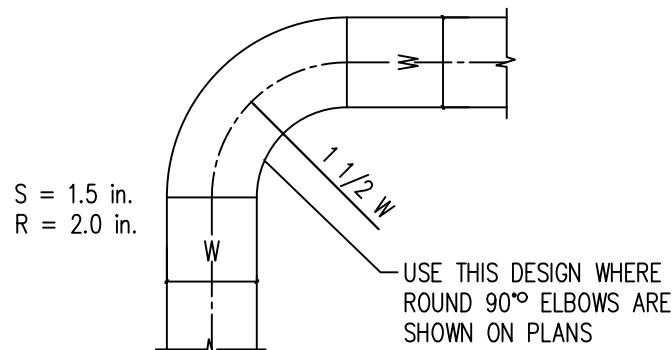


REVISION	DATE	BY	DESCRIPTION

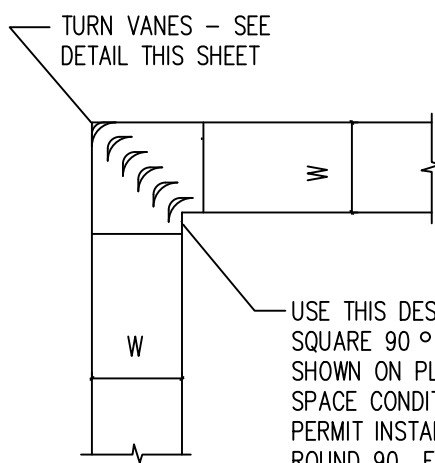


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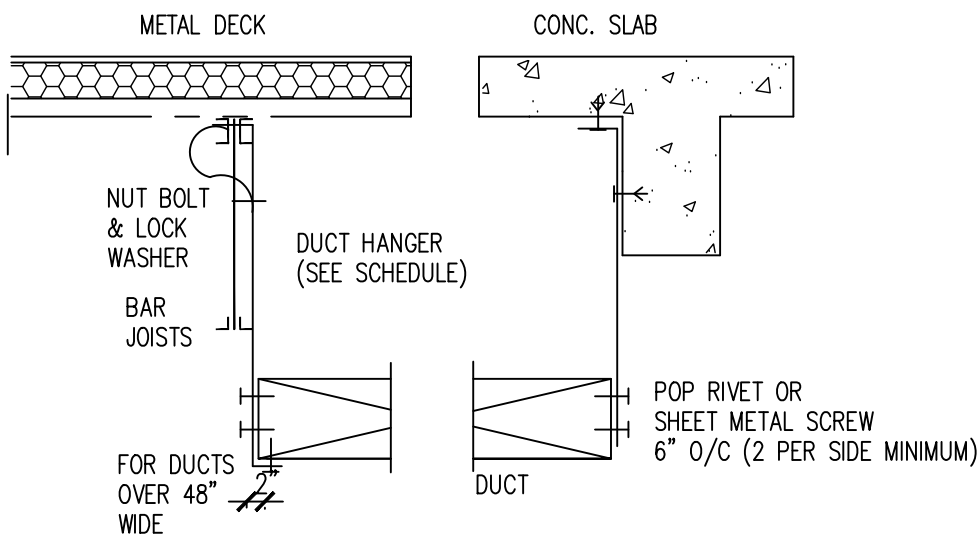
PROJECT	ONE STORY RETAIL BUILDING 752 TARGE STREET STATEN ISLAND NY
DRAWING TITLE	1ST FLOOR HVAC PLAN
SEAL & SIGNATURE	DATE: 01/10/20
	PROJECT NO.: 8100
	DRAWING BY: KM
	CHECKED BY:
	DRAWING NO.: M-001.00
	CAD FILE NO: 1 OF 3
	F:\Cad\8100\8100.M



CONSTRUCTION OF 90° ELBOW



SQUARE 90° ELBOW



ELEC HEATERS	
TAG	1-EH-1
LOCATION	SERVICE RM
MODEL	MARKEL
MODEL	E3055T2DWB
WATTS	750 W
ELEC.	120V/60 HZ

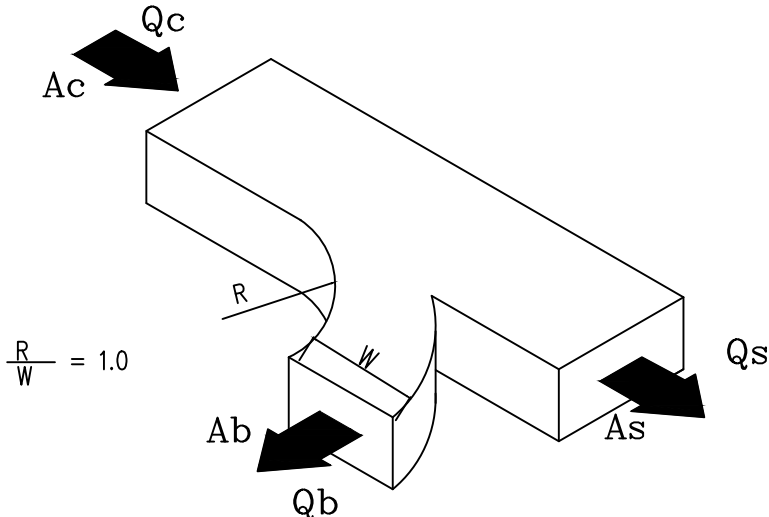
MECHANICAL VENTILATION CALCULATIONS 2014 NYC MECHANICAL CODE SECTION 403						
SPACE	RP CFM/PER	PZ # PEOPLE	RA CFM/SF	AZ AREA	Vbz REQD CFM	DESIGN CFM PROVIDED
RETAIL	7.5	102	0.12	6816	945	960
DEMAND CONTROLLED VENTILATION IS NOT REQUIRED FOR THIS PROJECT BECAUSE THE OCCUPANT DENSITY IS LESS THAN 25/1000 AND OA FLOW IS LESS THAN 1200 CFM						

ERV VENTILATION SYSTEM IS NOT
REQUIRED FOR THIS PROJECT

RETAIL VENTILATION SYSTEM OPERATES LESS THAN
8000 HRS PER YEAR LESS THE MAXIMUM RATE
ALLOWED INDICATED IN TAB E 403.2.7(1)

EXHAUST FAN SCHEDULE (CAPTIVE/AIR OR EQUAL)	
UNIT I.D.	TEX 1-6
SERVICING	TOILET EXHAUST
LOCATION	CEILING
MANUFACTURER	GREENHECK
MODEL #	SP-B-90
CFM	62 CFM @ 0.25 ESP
HP	18.6 W
VOLTAGE/PH	110 V/ 1 PH
ACCESSORIES	2,4,6,12,

- 1) PREFAB ROOF CURB
- 2) FLEXIBLE CONNECTIONS AT DUCT CONNECTIONS
- 3) INSECT SCREEN
- 4) GRAVITY BACKDRAFT DAMPER
- 5) WEATHERPROOF DISCONNECT
- 6) ALL MATERIALS, LABOR AND EQUIPMENT SHALL CONFORM WITH THE LATEST ED. OF N.Y.C. BUILDING CODE
- 7) PROVIDE WALL MOUNTED ON/OFF SWITCH IN ZONE/SPACE
- 8) PROVIDE TIME CLOCK FOR HOURS OF OPERATION
- 9) CEILING RADIATION DAMPER GREENHECK MODEL CRD MEA # 260-19-M
- 10) HANGING VIBRATION ISOLATION
- 11) WEATHERPROOF ROOF DISCHARGE OUTLET GREENHECK RCC-7 OR WC WALL DISCHARGE WHERE APPLICABLE
- 12) WALL / SOFFIT DISCHARGE OUTLET W/ DAMPER GREENHECK WC SERIES
- 13) ACOUSTIC DUCT / FAN CONNECTION
- 14) CLASS 1 LOW LEAKAGE MOTORIZED DAMPER, ACMA 500D

W. WYE, RECTANGULAR

DUCT HANGING SCHEDULE		
DUCT SIZE CROSS SECTIONAL AREA	STEEL STRAP HANGER SIZE	MAXIMUM HANGER SPACING
2 SOFT OR LESS	1" X 1/16"	8'-0" O/C

MARK	AIR DIFFUSERS, GRILLS, REGISTERS
DIFFUSERS	TUTUS # TMSA-AA SQUARE ROUND NECK DIFFUSERS
RETURN GRILLS	TUTUS # 350ZFL , 3/4" SPACING , 0 DEG

- GENERAL HVAC NOTES
- 1) PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS ,AS SPECIFIED AND REQUIRED BY CODE.
- 2) INSTALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS, CONTRACT DOCUMENTS , AND APPLICABLE CODES AND REGULATIONS.
- 3) PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS LOCATED WITHIN 50 FT OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOWS AND ANCHOR POINTS) . THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
- 4) THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK.
- 5) THE CONTRACTOR /OWNER SHALL MEET WITH UTILITY COMPANIES AND PROVIDE LOAD LETTERS FOR SIZING ANY NEW SERVICES.
- 6) COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECT, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC.,; SHOWN ON OTHER PLAN / CONTRACT DRAWINGS.
- 7) MAINTAIN A MINIMUM OF 6"-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC.,; THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS
- 8) ALL TESTS AND BALANCING ON MECHANICAL EQUIPMENT SHALL BE DONE BEFORE INSULATION IS APPLIED.
- 9) LOCATE TEMP. PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWN STREAM AS RECOMMENDED BY MANUFACTURER FOR GOOD ACCURACY.
- 10) TESTING ADJUSTING AND BALANCING SHALL BE DONE ON INSTALLED SYSTEM, BY A SEPARATE INDEPENDENT CONTRACTOR..
- 11) WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED , THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- 12) COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURES CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY ALL DUCT AND PIPING DIMENSIONS PRIOR TO FABRICATION. ADVISE ENGINEER OF ANY DISCREPANCIES. SUBMIT SHOP DRAWINGS FOR REVIEW.
- 13) ALL WRING AND CONDUIT SHALL COMPLY WITH THE N.Y.C. ELECTRICAL CODE.
- 14) CONCRETE HOUSE KEEPING PADS SHALL BE SIZED BY THE CONTRACTOR . MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES. PADS SHALL EXTEND BEYOND EQUIPMENT 4 INCHES.
- 15) ALL MECHANICAL ROOM DOORS SHALL BE 4'-0" WIDE
- 16) THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS ARE NOT DEFINITELY FIXED BY DIMENSIONS, ARE APPROXIMATE ONLY, THE EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY PROJECT AND SHALL HAVE APPROVAL OF ENGINEER BEFORE BEING INSTALLED.
- 17) PROVIDE ACCESS PANELS IN WALLS AND CEILINGS WHERE REQUIRED, TO SERVICE DAMPER, VALVES SMOKE DETECTORS AND OTHER CONCEALED MECHANICAL EQUIPMENT.
- 18) ALL EQUIPMENT, PIPING , DUCTWORK ECT. SHALL BE SUPPORTED PER SCHEDULES .
- 19) ALL DUCTWORK , PIPING , EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOIST, TRUSSES OR JOIST GIRDERS SHALL BE AT THE PANEL POINTS.
- 20) MECHANICAL, EQUIPMENT, DICTWORK AND PIPING, SHALL NOT BE SUPPORTED FROM METAL DECK.
- 21) LOCATIONS OF ALL WALL, FLOOR ,ROOF OPENINGS SHALL BE COORDINATED WITH ALL TRADES INVOLVED.
- 22) ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT , ECT. , SHALL BE FIRESTOPPED WITH NYC MEA APPROVED MATERIAL.
- 23) ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT, AND ROOFTOP UNIT, SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET WITH 'P' TRAP AND PIPED TO NEAREST DRAIN.
- 24) ALL BEAM CUTS AND HANGING OF EQUIPMENT AND LOCATION OF ROOF MOUNTED EQUIPMENT IS TO BE REVIEWED BY STRUCTURAL ENGINEER.

- 1) PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE PIPING SYSTEM AS INDICATED ON THE DRAWINGS, AND AS SPECIFIED BY CODE.
- 2) PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN HEATING WATER, AND OTHER CLOSED WATER PIPING SYSTEMS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- 3) ALL PIPING SHALL BE INSULATED PER NYS ENERGY CODE. ALLOW CLEARANCE FOR INSULATION THICKNESS.
- 4) INSTALL ALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, UNIONS AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- 5) ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN THE EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF VALVE IS REMOVED.
- 6) ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS. (MEMORY STOPS)
- 7) ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE RUN FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- 8) UNIONS AND/ OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES , AND IN LONG LINE RUNS (100 FT OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION OR REPAIR.
- 9) INSTALL PIPING WITHOUT FORCING OR SPRINGING.
- 10) ALL PIPING SHALL CLEAR DOORS AND WINDOWS
- 11) ALL VALVES SHALL BE ADJUSTED FOR SMOOTH EASY OPERATION.
- 12) ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED.
- 13) PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS. CONNECTED TO PUMPS , CHILLERS , COOLING TOWERS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO EQUIPMENT AS POSSIBLE.
- 14) SLOPE REFRIGERANT PIPING IN THE DIRECTION OF OIL RETURN. LIQUID LINES MAY BE INSTALLED LEVEL.
- 15) INSTALL HORIZONTAL REFRIGERANT HOT GAS DISCHARGE PIPING WITH 1/2" PER 10 FT DOWNWARD AWAY FROM THE COMPRESSOR.
- 16) INSTALL HORIZONTAL REFRIGERANT SUCTION LINES WITH 1/2" PER 10 FT DOWNWARD SLOPE TO THE COMPRESSOR. , WITH NO LONG TRAPS OR DEAD ENDS WHICH MAY CAUSE OIL TO SEPARATE FROM THE SUCTION GAS.
- 17) INSTALLED HYDROSTATIC SYSTEM SHALL BE BALANCED BY CONTRACTOR.

----	EXISTING DUCTWORK PER RECORDS	FD/SD	COMBINATION FIRE SMOKE DAMPER
	PROPOSED DUCTWORK	MD	MOTORIZED DAMPER
	SUPPLY DUCT	VD	VOLUME DAMPER
		FAI	OUTDOOR AIR INTAKE
	RETURN DUCT	CFM	CUBIC FEET OF AIR PER MINUTE
		DSD	DUCT SMOKE DETECTOR
	RETURN GRILL	FLEX	FLEXIBLE DUCT MEA #259-276-83e
		TV	TURNING VANE
	CEILING DIFFUSER	ⓘ	THERMOSTAT
		Ⓢ	AIR CYCLER PANEL
		ERV	ERV PANEL

HEATING AND COOLING EQUIPMENT
SIZED IN ACCORDANCE WITH
ASHRAE/ACCA 183
MAX HEATING TEMPERATURE 72 F
MIN COOLING TEMPERATURE 75 F

COMMISSIONING IS NOT REQUIRED
HEATING EQUIPMENT < 600,000 BTUH
COOLING EQUIPMENT IS < 480,000 BTUH

- 1) PROVIDE ALL MATERIALS EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS , AND AS REQUIRED BY CODE.
- 2) CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS , ECT. ARE INDICATED ON THE CONTRACT DOCUMENT DRAWING FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS TO THE EXTENT OF REQUIREMENTS FOR THESE ITEMS.
- 3) UNLESS OTHERWISE SHOWN, LOCATE ALL THERMOSTATS 4' ABOVE FINISHED FLOOR
- 4) ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
- 5) ALL DUCT SIZES SHOWN ON PLAN ARE INTERNAL SIZES AND DUCT SIZES SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
- 6) PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES. BATHROOM EXHAUST SHALL BE UNVANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1 1/2 TIMES THE RADIUS OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
- 7) COORDINATE DIFFUSER, REGISTER,GRILL LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
- 8) LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO PANELS, CONTROLS, AND VALVING
- 9) PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT POINT OF CONNECTION TO EQUIPMENT UNLESS OTHERWISE INDICATED
MAX LOSS COEFFICIENT $C=0.15$
- 10) RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FT

- 1) ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 2) PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS TO ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK WHICH REQUIRE SERVICE AND/ OR INSPECTION.
- 3) PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT AND MAINTENANCE OF FANS VALVES AND MECHANICAL EQUIPMENT.
- 4) SMOKE DUCT DETECTORS SHALL BE WIRED BY THE LICENSED ELECTRICIAN. THE MECHANICAL CONTRACTOR SHALL MOUNT SMOKE DETECTOR IN DUCTWORK IN ACCORDANCE WITH WORK SHOWN ON DRAWINGS AND MANUFACTURERS INSTRUCTIONS.
- 5) TERMINATE GAS VENTS 3' ABOVE HIGHEST ROOF POINT WITHIN 10 FT WITH AN APPROVED TYPE RAIN CAP.
- 6) EXTERIOR LOUVERS AND WALL OPENINGS SHALL BE COORDINATED WITH STRUCTURAL ENGINEER AND GENERAL CONTRACTOR.
- 7) COPIES OF COMPLETED WARRANTY REGISTRATION DOCUMENTS, OPERATION AND PARTS MANUAL, MAINTENANCE PROCEDURES AND AIR BALANCE REPORT SHALL BE PROVIDED TO OWNER.
- 8) ALL DUCTWORK ABOVE ROOF SHALL BE INTERNALLY INSULATED WITH NON-EROSIVE DUCT INSULATION.
CAULK AND SEAL ALL SEAMS WATER TIGHT WITH BITUMASTIC OR SIMILAR WATERPROOFING
- 9) FABRICATORS DRAWINGS TO BE PROVIDED PRIOR TO INSTALLATION
- 10) SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL EQUIPMENT INSTALLATIONS.
CONTRACTOR SHALL FIELD CHECK PLANS FOR INTERFERENCE AND ADVISE ENGINEER OF ANY PROBLEMS PRIOR TO START OF WORK
- 21) DUCTWORK SHALL BE INSULATED IN THE FOLLOWING MANNER
DUCTWORK IN CONDITIONED SPACE NONE
DUCTWORK IN EXTERIOR SPACES OR WITHIN THE ASSEMBLY MIN R-8
DUCTWORK IN UNCONDITIONED SPACE R-6
- 22) DELETE
- 23) THE MECHANICAL CONTRACTOR SHALL PROVIDE OPERATING AND MAINTENANCE MANUAL TO THE BUILDING OWNER
- 24) ALL DUCT SEAMS AND EQUIPMENT CONNECTIONS SHALL
BE TAPED LISTED UL 181 A
MARKED UL 181A-P FOR PRESSURE SENSITIVE TAPE
- 25) FLEXIBLE DUCT CONNECTIONS SHALL BE SEALED WITH
UL LISTED TAPE UL 181 B
MARKED UL 181B-FX
- 26) PROVIDE PROGRAMMABLE THERMOSTAT TO ALL HVAC UNITS
- SET BACK 55 DEG F HEATING, UP TO 85 DEG F COOLING
- SET BACK SHALL BE AUTOMATIC DURING UNOCCUPIED HOURS
7 DIFFERENT DAY SCHEDULES
- 2 HR OVERRIDE
- BACKUP BATTERY 10 HR CAPACITY
- 5 DEG F DEADBAND
- 27) OWNER TO BE PROVIDED WITH MAINTENANCE MANUAL FOR ALL EQUIPMENT

REVISION	DATE	BY	DESCRIPTION

The RCG logo, featuring the letters 'RCG' in a bold, stylized font with a grid pattern.

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HVAC NOTES AND SCHEDULES

SEAL & SIGNATURE	DATE	4/26/21
	PROJECT NO.	8100
	DRAWING BY	KM
	CHECKED BY	
	DRAWING NO.	M-002.00
CAD FILE No:		2 OF 3
8100_M		

TABLE II - PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE- COMMERCIAL BUILDINGS

	MECHANICAL AND SERVICE WATER HEATING INSPECTION	INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER 6) OR OTHER CRITERIA	ECC OR OTHER CITATION	THIS INSPECTION REQUIRED	
						YES	
IIB							
IIB1	FIREPLACES; PROVISION OF COMBUSTION AIR AND TIGHT-FITTING FIREPLACE DOORS SHALL BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS; ANSI Z21.60 (SEE ALSO MC 904), ANSI Z21.50	303.1.5; BC 2111; MC CHAPTERS 7, 9; FCC CHAPTER 6		☐	☒
IIB2	OUTDOOR AIR INTAKES AND EXHAUST OPENINGS: DAMPERS FOR STAIR AND ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE VISUALLY INSPECTED TO VERIFY THAT SUCH DAMPERS, EXCEPT WHERE PERMITTED TO BE GRAVITY DAMPERS, COMPLY WITH APPROVED CONSTRUCTION DRAWINGS. MANUFACTURER'S LITERATURE SHALL BE REVIEWED TO VERIFY THAT THE PRODUCT HAS BEEN TESTED AND FOUND TO MEET THE STANDARD	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS; AMCA 500	502.4.4; ASHRAE 90.1-6.4.3.4		☐	☒
IIB3	HVAC SERVICE WATER HEATING AND POOL EQUIPMENT SIZING AND PERFORMANCE: EQUIPMENT SIZING AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURER'S DATA. POOL HEATERS AND COVERS SHALL BE VERIFIED BY VISUAL INSPECTION	PRIOR TO FINAL PLUMBING AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	503.2, 504.2, 504.7; ASHRAE 90-1-6.3, 6.4.1, 6.4.2, 6.8; 7.4, 7.8		☒	☐
IIB4	HVAC SYSTEM CONTROLS AND ECONOMIZERS AND SERVICE HOT WATER SYSTEM CONTROLS; NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO: • THERMOSTATIC SET POINT OVERLAP RESTRICTION • OFF-HOUR SHUTOFF DAMPER • SNOW MELT SYSTEM • DEMAND CONTROL SYSTEMS • OUTDOOR HEATING SYSTEMS • ZONES • ECONOMIZERS • AIR SYSTEMS • VARIABLE AIR VOLUME FAN • HYDRONIC SYSTEMS • HEAT REJECTION EQUIPMENT FAN SPEED • COMPLEX MECHANICAL SYSTEMS • SERVING MULTIPLE ZONES • VENTILATION • ENERGY RECOVERY SYSTEMS • HOT GAS BYPASS LIMITATION • TEMPERATURE • SERVICE WATER HEATING • HOT WATER SYSTEM • POOL HEATER AND TIME SWITCHES • EXHAUST HOODS • RADIANT HEATING SYSTEMS AND HOT GAS BYPASS SYTEMS CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY: CONTROLS WHOSE COMPLETE OPERATION CANNOT BE DEMONSTRATED DUE TO PREVAILING WEATHER CONDITIONS TYPICAL OF THE SEASON DURING WHICH PROGRESS INSPECTIONS WILL BE PERFORMED SHALL BE PERMITTED TO BE SIGNED OFF FOR THE PURPOSE OF A TEMPORARY CERTIFICATE OF OCCUPANCY WITH ONLY A VISUAL INSPECTION, PROVIDED, HOWEVER, THAT THE PROGRESS INSPECTOR SHALL PERFORM A SUPPLEMENTAL INSPECTION WHERE THE CONTROLS ARE VISUALLY INSPECTED AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION DURING THE NEXT IMMEDIATE SEASON THEREAFTER. THE OWNER SHALL PROVIDE FULL ACCESS TO PROGRESS INSPECTOR WITHIN TWO WEEKS OF THE PROGRESS INSPECTOR'S REQUEST FOR SUCH ACCESS TO PERFORM THE PROGRESS INSPECTION. FOR SUCH SUPPLEMENTAL INSPECTIONS THE DEPARTMENT SHALL BE NOTIFIED BY THE APPROVED PROGRESS INSPECTION AGENCY OF ANY UNRESOLVED DEFICIENCIES IN THE INSTALLED WORK WITHIN 180 DAYS OF SUCH SUPPLEMENTAL INSPECTION.	AFTER INSTALLATION AND PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION, EXCEPT THAT FOR CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING SHALL BE PERFORMED BEFORE SIGN-OFF OR ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES; ASHRAE GUIDELINE 1: THE HVAC COMMISSIONING PROCESS WHERE APPLICABLE	503.2.4, 503.2.5.1, 503.2.11, 503.3, 503.4, 504.3, 504.6, 504.7; ASHRAE 90.1-6.3, 6.4, 6.5, 6.7.2.4, 7.4.4, 7.4.5		☒	☐
IIB5	DUCT PLENUM AND PIPING INSULATION AND SEALING: INSTALLED DUCT AND PIPING INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE VISUALLY INSPECTED FOR PROPER SEALING.	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SMACNA DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE	503.2.7, 503.2.8, 504.5; ASHRAE 90.1-6.3, 6.4.4.2, 6.8.2, 6.8.3; 7.4.3		☐	☒
IIB6	AIR LEAKAGE TESTING FOR HIGH PRESSURE DUCT SYSTEMS: FOR DUCT SYSTEMS DESIGNED TO OPERATE AT STATIC PRESSURES IN EXCESS OF 3 INCHES w.g. (748 Pa) REPRESENTATIVE SECTIONS TOTALING AT LEAST 25% OF DUCT AREA, PER ECC 503.2.7.1.3, SHALL BE TESTED TO VERIFY THAT ACTUAL AIR LEAKAGE IS BELOW ALLOWABLE AMOUNTS.	AFTER INSTALLATION AND SEALING AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL	503.2.7.1.3; ASHRAE 90.1-6.4.4.2		☐	☒
IID1	MAINTENANCE MANUALS FOR EQUIPMENT AND SYSTEMS REQUIRING PREVENTATIVE MAINTENANCE SHALL BE REVIEWED FOR APPLICABILITY TO INSTALLED EQUIPMENT AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED TO THE OWNER. LABELS REQUIRED FOR SUCH EQUIPMENT SHALL BE INSPECTED FOR ACCURACY AND COMPLETENESS	PRIOR TO SIGNOFF OR ISSUANCE OF A FINAL C/O	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING ELECTRICAL DRAWINGS ASHRAE GUIDE 4 PREPARATION OF MAINTENANCE DOCUMENTATION FOR BUILDING SYSTEMS	C 303.3		☒	☐

COMMERCIAL CLIMATE ZONE 4A 2016 NYCECC (2016 NYCECC) CHAPTER 4					
NYCECC Citation	Provision	Item Description	Proposed design value	Code Prescriptive Value (ECC)	Supporting Documentation
CLIMATE ZONES, DESIGN CONDITIONS, MATERIALS, EQUIPMENT AND SYSTEMS					
C-302 DESIGN CONDITIONS					
C-302.1	INTERIOR DESIGN CONDITIONS	MINIMUM AND MAXIMUM DESIGN CONDITIONS FOR INTERIOR DESIGN LOAD CALCULATIONS	MAX 72 DEG F HEATING MIN 75 DEG F COOLING	MAX 72 DEG F HEATING MIN 75 DEG F COOLING	STATEMENT ON PLAN SHEET M-002
C 403.2.1	CALCULATION OF HEATING LOAD	LOAD CALCULATIONS FOR HVAC SYSTEMS	DESIGN LOAD ARE DETERMINED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN ASHRAE/ACCA STANDARD 183	DESIGN LOAD ARE DETERMINED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN ASHRAE/ACCA STANDARD 183	STATEMENT ON PLAN SHEET M-003
C 403.2.2	EQUIPMENT SIZING	HVAC SYSTEMS SIZED BASED ON LOAD CALCULATIONS	SPECIFIED EQUIPMENT SIZED WITHIN LOAD CALCULATION LIMITS	HEATING EQUIPMENT SHALL NOT EXCEED CALCULATED LOADS	STATEMENT ON PLAN SHEET M-002
C 403.2.3	TABLE C 403.2.3(1)	PACKAGE RTU < 65,000 BTUH	ROOF PACKAGE UNIT	17 SEER	EQUIPMENT SCHEDULE SHEET M-002
	TABLE C 403.2.3(2)	SPLIT DX SYSTEM < 65000 BTUH COOLING	SPLIT A/C	NOT APPLICABLE	13 SEER
	TABLE C 403.2.3(4)	UNIT HEATERS MINIMUM EFFICIENCY REQUIREMENTS	GARAGE UNIT HEATERS	NOT APPLICABLE	EFFICIENCY 80 % E _g
	TABLE C 403.2.3(4)	UNIT HEATERS MINIMUM EFFICIENCY REQUIREMENTS	GAS FURNACE < 225,000 BTUH	NOT APPLICABLE	EFFICIENCY 80 % E _l OR 78% AFUE
C 403.2.4.2	OFF HOUR CONTROLS	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	ALL ZONE THERMOSTATS SHALL BE OPERATED VIA THERMOSTAT SETBACK CONTROLS VIA A PROGRAMMABLE CONTROL SYSTEM	SHEET M-002, HVAC/ SHEETMETAL NOTE 26
C 403.2.4.2.1	THERMOSTATIC SETBACK CAPABILITIES	ALL ZONES	EACH THERMOSTAT SHALL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL HAVE ABILITY TO SETBACK TEMPERATURES DOWN TO 55 DEG F OR UP TO 85 DEG F	SHEET M-002, HVAC/ SHEETMETAL NOTE 26
C 403.2.4.2.2	AUTOMATIC SETBACK AND SHUTDOWN CAPABILITIES	ALL ZONES	EACH THERMOSTAT SHALL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY STARTING AND STOPPING THE SYSTEMS FOR SEVEN DAILY SCHEDULES PER WEEK, CAPABLE OF HAVING SETTING SAVED IN MEMORY FOR 10 HOURS DURING A LOSS OF POWERS AND A MANUAL SYSTEM "ON" OVERRIDE FOR UP TO TWO HOURS	SHEET M-002, HVAC/ SHEETMETAL NOTE 26
C 403.2.4.2.3	AUTOMATIC START CAPABILITIES	ALL ZONES	EACH THERMOSTAT SHALL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM AND AUTOMATICALLY ADJUSTING THE DAILY START TIME OF HVAC IN ORDER TO BRING EACH SPACE UP TO THE DESIRED TEMPERATURE	SHEET M-003, HVAC/ SHEETMETAL NOTE 26
C 403.2.7 TABLES C 403.2.7(1) AND TABLES C 403.2.7(2)	ERV	ERV	N/A	REQUIRED IN ZONE 4A IN VENTILATION SYSTEMS OPERATING LESS 8000 HRS PER YEAR (PER TABLE C 403.2.7 (1))	M-002, NOT REQUIRED VENTILATION INDEX
C 403.2.9	DUCT AND PLENUM INSULATION AND SEALING	ALL DUCTWORK	CONDITIONED SPACES SUPPLY NONE UNCONDITIONED SPACES MIN R-6 EXTERIOR SPACES MIN R-8	CONDITIONED SPACES NONE UNCONDITIONED SPACES MIN R-6 EXTERIOR SPACES MIN R-8	SHEET M-002, HVAC/ SHEETMETAL NOTE 21
C 403.2.9.1	DUCT CONSTRUCTION	ALL DUCTWORK	DUCTWORK TO BE CONSTRUCTED IN ACCORDANCE WITH NYC MC	DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NYC MC	SHEET M-002, HVAC/SHEETMETAL NOTE 24,25
C 403.2.9.1.1	LOW PRESSURE DUCT SYSTEMS	LOW PRESSURE DUCTWORK	ALL LOW PRESSURE DUCTWORK TO BE SEALED PER REQUIREMENTS	ALL LOW PRESSURE DUCTWORK OPERATING AT 2" WC OR LESS SHALL BE PROPERLY SEALED PER APPROVED METHODS	SHEET M-002, NOTE 24,25
C 403.3	AIR SIDE ECONOMIZER	AIR SIDE ECONOMIZER	LOW LEAKAGE ECONOMIZER WITH BARAOOMETRIC RELIEF	LOW LEAKAGE ECONOMIZER WITH BARAOOMETRIC RELIEF	NOT APPLICABLE
C 403.2.4.3	SHUTOFF DAMPERS	SHUTOFF DAMPERS	CLASS I LOW LEAKAGE RATE LESS THAN 4CFM/SF Ø 1" SP. ACMA 500D LABELED EXCEPT FOR EXHAUST (BATHROOM) < 300 CFM	CLASS I LOW LEAKAGE RATE LESS THAN 4CFM/SF Ø 1" SP. ACMA 500D LABELED EXCEPT FOR EXHAUST (BATHROOM) < 300 CFM	SHEET M-002 EXHAUST FAN SCHEDULE, AND ACCESSORY NOTES 4 EQUIPMENT SCHEDULE NOTE 2
C-303	MAINTENANCE INFORMATION	MAINTENANCE INFORMATION	PROVIDE OWNER WITH EQUIPMENT OPERATING MANUAL	PROVIDE OWNER WITH EQUIPMENT OPERATING MANUAL	SHEET M-002 HVAC GENERAL NOTE 27

C-406.1 (1) ADDITIONAL ENERGY EFFICIENCY HVAC OPTION				
EQUIPMENT	REQUIRED PERFORMANCE UNDER SECTION C-403.2.3 (1) C-403.2.3 (2) C-403.2.3 (4)	10 % INCREASE	PROVIDED	WHERE LOCATED
SINGLE PACKAGE A/C < 65,000 BTUH	14 SEER	15.4 SEER	17.2 SEER	M-002 HVAC SCHEDULE

REVISIONDATEBYDESCRIPTION

RCG

ROGERS CALVANICO GROUP

ARCHITECTURAL, ENGINEERING & LAND SURVEY

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(718) 494-0444 / (718) 317-6900

PROJECT

752 TARGEE STREET
STATEN ISLAND, NY

DRAWING TITLE

MECHANICAL ENERGY CODE

SEAL & SIGNATURE

DATE4/26/21

PROJECT NO.8100

DRAWING BYKM

CHECKED BY

DRAWING NO.

EC-001.0

CAD FILE No:8100_M3

A. BASIC ELECTRICAL REQUIREMENTS

- THE "AIA GENERAL CONDITIONS (A201) OF THE CONTRACT FOR CONSTRUCTION" LATEST EDITION AND THE APPENDED SUPPLEMENTARY GENERAL CONDITIONS ARE PART OF THIS CONTRACT.
- ALL WORK AND MATERIALS SHALL CONFORM WITH THE 2008 EDITION OF THE NATIONAL ELECTRICAL CODE WITH N.Y.C. SUPPLEMENT, LOCAL BUILDING CODE, OSHA REGULATIONS, LOCAL, STATE & FEDERAL AUTHORITY HAVING JURISDICTION. SECURE PERMITS AND CERTIFICATES OF APPROVAL. PAY ALL FEES AND CHARGES. DELIVER THE CERTIFICATES TO THE ARCHITECT BEFORE FINAL BILLING. DRAWINGS ARE DIAGNOSTIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ELECTRICAL WORK.
- COORDINATE THE INSTALLATION OF ALL WORK WITH THE WORK OF ALL OTHER TRADES. IN THE EVENT THAT ANY WORK IS INSTALLED WITHOUT PROPER PRIOR COORDINATION OR REGARD TO THE WORK OF OTHER TRADES, THIS CONTRACTOR SHALL REMOVE AND RELOCATE HIS WORK TO SUIT REQUIREMENTS OF OTHER TRADES AT NO ADDITIONAL COST TO THE OWNER.
- THIS CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, SERVICES, EQUIPMENT, MATERIAL, TOOLS, TRUCKING, HOISTING AND ERECTING APPARATUS, TRANSPORTATION AND SHALL PAY FOR ALL FEES, PERMITS, INSPECTIONS, CERTIFICATES AND RELATED ITEMS TO PROPERLY CARRY OUT THE CONTRACT WORK TO COMPLETION.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ELECTRICIAN AS-BUILT DRAWINGS ARE TO BE PROVIDED IN AUTOCAD FORMAT 2002 AT THE COMPLETION OF WORK, REFLECTING AS-BUILT CONDITIONS. PRIOR TO INSTALLATION OF ANY RECEPTABLES, SWITCHES, SECURITY DEVICES, TELEPHONE OUTLETS, LIGHTING FIXTURES, ETC. REFER TO ARCHITECTURAL DRAWINGS AND/OR OBTAIN EXACT LOCATIONS & MOUNTING HEIGHTS FROM THE ARCHITECT. PROVIDE TEMPORARY LIGHT AND POWER AS REQUIRED FOR ALL TRADES.
- GOVERNED BY THE AUTHORITIES HAVING JURISDICTION AND OSHA. OWNER SHALL PAY COSTS ASSOCIATED WITH THE ELECTRIC UTILITY CO. DEMAND AND ENERGY CHARGES.
- POWER - MINIMUM CAPACITY - 0.5 KVA PER 1000 SQUARE FEET.
- LIGHTING - MINIMUM CAPACITY - 1/3 WATT PER SQUARE FEET.
- ALL PENETRATIONS OF FIRE RATED WALLS, FLOORS OR CEILINGS SHALL BE SEALED WITH AND APPROVED MATERIAL TO PROVIDE AN EQUAL RATING AS WALL, FLOOR OR CEILING ASSEMBLY BEING PENETRATED. ALL OPENINGS ON WALLS OF ELECTRIC CLOSETS AND TELEPHONE/COMMUNICATION CLOSETS SHALL BE SEALED. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT A DETAILED APPROVAL DETAILED SHOP DRAWINGS AND/OR CATALOG CUTS FOR ALL EQUIPMENT DESCRIBED HEREIN OR ON THE DRAWINGS. SHOP DRAWINGS SHALL BE CLEARLY MARKED TO DEMONSTRATE COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. ALSO PROVIDE PLAN AND ELEVATION SHOP DRAWINGS OF ALL ELECTRIC CLOSETS AND CONDUIT ROUTING PRIOR TO CONSTRUCTION. PROVIDE A LIST OF MANUFACTURERS FOR EACH PIECE OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL.
- ALL EQUIPMENT SHALL BE UL LISTED AND IN COMPLIANCE WITH LOCAL CODE.
- CONTRACTOR SHALL SUBMIT TO THE BUILDING OWNER AND TENANT A DETAILED SCHEDULE FOR WORK WITH THE BID PROPOSAL. SCHEDULE SHALL IDENTIFY ALL SPECIFIC MILESTONES AND DATES FOR THE PROJECT.
- THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, SHALL CLEAN ALL SWITCHES, CABINETS, DEVICES, PLATES, FIXTURES AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT AND SHALL ENSURE THAT ALL PANELBOARD ENCLOSURES ARE IN PLACE AND COMPLETED OR REVISED AS REQUIRED BY THE WORK AND THAT ALL IDENTIFICATION AND MARKING OF EQUIPMENT, CABLES, JUNCTION BOXES AND OTHER ITEMS IS COMPLETED.
- THE CONTRACTOR SHALL FURNISH A GUARANTEE COVERING LABOR, MATERIALS AND EQUIPMENT FOR A PERIOD OF (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. HE SHALL AGREE TO REPAIR AND MAKE GOOD, AT HIS OWN EXPENSE, ALL DEFECTS AND OMISSIONS WHICH MAY APPEAR DURING THE TIME OF SAID GUARANTEE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING DETAIL SWITCHBOARD SHOP DRAWINGS INDICATING SWITCHBOARD LOCATION, BUS TAPS, FEEDERS(E), ETC. IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUREAU OF ELECTRICAL CONTROLS. OBTAIN APPROVAL FROM BEC PRIOR TO COMMENCING WORK IN THE ELECTRICAL ROOM.
- PROVIDE EXPANSION JOINT WHERE REQUIRED FOR THE INSTALLATION. IN THE CENTER LINE OF ALL OVERCURRENT PROTECTION SHALL NOT EXCEED 6"-6" ABOVE FINISHED FLOOR.
- ALL OUTLETS ON THE EXTERIOR OF THE BUILDING & ROOFTOP SHALL BE GFI TYPE, AND BE PROVIDED WITH WEATHERPROOF ENCLOSURE.
- ALL ELECTRIC & CONTROL PANELS IN THE MECHANICAL, PUMP & BOILER ROOMS SHALL HAVE A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF PANELS. COORDINATE WITH OTHER TRADES OFFSETS AS REQUIRED.
- PROVIDE 4" CONCRETE PAD ON ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
- PROVIDE PANIC HARDWARE FOR ALL DOORS LEADING OUT OF ELECTRIC ROOM. COORDINATE WITH ARCHITECT.

B. RACEWAYS

- ALL WIRING SHALL BE IN CONDUIT AND CONCEALED. MINIMUM SIZE SHALL BE 3/4".
- ALL RACEWAYS, CONDUIT, ETC. SHALL BE MECHANICALLY JOINED TOGETHER INTO A CONTINUOUS ELECTRICAL CIRCUIT. AT ALL BOXES, FITTINGS, AND GROUNDING SCREWS, LOCK NUTS AND BUSININGS SHALL BE USED TO PROVIDE A MECHANICALLY SECURE CONNECTION.
- UNLESS OTHERWISE NOTED, CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) EXCEPT WHERE, SUBJECT TO PHYSICAL DAMAGE, METAL TUBING, UNDERGROUND AND HAZARDOUS AREAS, PROHIBITED BY CODES PROVIDE RIGID GALVANIZED STEEL (RGS). ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR CONNECTIONS FROM OUTLET BOXES TO LIGHTING FIXTURES, MOTORS, TRANSFORMERS, ETC. TO OTHER EQUIPMENT SUBJECT TO VIBRATION AS PERMITTED BY CODE.
- PROVIDE FLEXIBLE LIQUID CONDUIT TO ALL MECHANICAL EQUIPMENT LOCATED ON ROOF, BUILDING EXTERIOR, PUMP ROOM, WATER METER ROOM & BOILER ROOM. RACEWAYS SHALL BE AS MANUFACTURED BY NATIONAL ELECTRIC PRODUCTS, TRIANGLE & REPAIRABLE CABLES MAY BE USED FOR LIGHTING AND POWER BRANCH CIRCUITS IN HUNG CEILING AND IN DRY-WALL PARTITIONS. EXCEPT ALL HOMERUNS, EMT, BE WIRED IN CONDUIT. TYPE "AC" CABLE MAY NOT BE RUN IN ELECTRICAL CLOSET. "MC" CABLE SHALL BE UTILIZED IN PLACES OF ASSEMBLY & APARTMENT FEEDERS. PROVIDE SEPARATE EQUIPMENT GROUND CONDUCTOR IN ALL "MC" CABLES WERE NOT SUBJECT TO CORROSION CONDITIONS. ALL CONDUIT INSTALLED IN THE GARAGE SHALL BE RIGID GALVANIZED STEEL WITH THREADED FITTINGS.
- ALL CONDUIT INSTALLED IN GAS METER ROOM SHALL BE RIGID GALVANIZED CONDUIT.

C. WIRE AND CABLE

- UNLESS OTHERWISE SPECIFIED OR SPECIFICALLY INDICATED ON THE DRAWINGS, ALL CONDUCTORS FOR LIGHTING AND POWER SHALL BE TINNED SINGLE CONDUCTOR ANNEALED COPPER BUILDING WIRES OF MINIMUM 98% CONDUCTIVITY WITH DISTINCTIVE COLOR MARKING, 600 VOLT INSULATION, COLOR CODED AS SPECIFIED HEREINAFTER. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID TYPE, THIN/THIN, #10 AWG AND LARGER SHALL BE STRANDED, TYPE THHN/THWN.
- WIRING FOR LIGHTING AND POWER WITHIN THE APARTMENT SHALL BE #12 AWG MINIMUM. CONTROL WIRING SHALL BE #18 AWG MINIMUM, UNLESS OTHERWISE INDICATED ON THE SCHEDULES. BRANCH CIRCUIT HOMERUN CONDUCTORS EXCEEDING 75 FEET SHALL BE INCREASED TO 10 AWG MINIMUM.
- PROVIDE A MINIMUM WIRE SIZE OF NO. 10 AWG FOR HOUSE LIGHTING & POWER. FEEDER RUNS OVER 75' SHALL BE NO. 8 AWG UNLESS NOTED ON SCHEDULES.
- COLOR CODES FOR WIRING SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS.
- FEEDER AND BRANCH CIRCUIT WIRE SIZES SHALL BE ADJUSTED AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP.
- ALL CONDUCTORS INSTALLED EXPOSED IN HUNG CEILING SHALL BE PLENUM RATED.
- PROVIDE A SAFETY GROUND CONDUCTOR IN EACH RACEWAY FOR FEEDERS AND BRANCH CIRCUITS UNLESS OTHERWISE NOTED.
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH RECEPTACLE & EQUIPMENT CIRCUIT.
- ELECTRICAL BOXES AND FITTINGS
 - OUTLET BOXES: GALVANIZED, SHEET-STEEL, WITH MOUNTING HOLES, CABLE AND CONDUIT SIZED AND/CUT OPENINGS IN BOTTOM AND SIDES, COVER AND GROUNDING SCREWS.
 - LIGHTING FIXTURE BOX: 4 INCH OCTAGON WITH 3/8 INCH DEEP OR AS REQUIRED.
 - MULTI-DEVICE BOXES SHALL BE OF THE MULTI-GANG TYPE.
 - JUNCTION, PULL AND GROUND BOXES: GALVANIZED COIL-GAUGE SHEET-STEEL, JUNCTION AND PULL BOXES, WITH SCREW-ON COVERS, WELDED SEAMS AND EQUIPPED WITH STAINLESS STEEL NUTS, BOLT SCREWS AND WASHERS. BOXES INSTALLED OUTDOORS TO BE FABRICATED OF ALUMINUM AND HAVE GASKETS.
 - ALL BOXES, FITTINGS, ETC. INSTALLED IN MECHANICAL, COMPACTOR, REFUSE, TRASH, WATER METER, PUMP, GAS, STEAM & ELEVATOR MACHINE ROOMS SHALL BE SUITABLE FOR MET LOCATION.
- MOUNTING HEIGHTS FOR DEVICES MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET SHALL BE IN ACCORDANCE WITH THE FOLLOWING UNLESS OTHERWISE NOTED. ALSO COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
 - WALL LIGHT SWITCHES: 4 FEET.
 - WALL RECEPTABLES: 1 FOOT 6 INCHES. (U.O.N.)
 - WALL RECEPTABLES IN MECH. EQUIPMENT ROOM, PUMP RM, WATER METER RM & BOILER RM: 4 FEET.
 - PUSH-BUTTON FOR POWER AND SIGNAL: 4 FEET.
 - INDIVIDUALLY MOUNTED MOTOR STARTERS: 4 FEET TO HANDLE.
 - WALL MOUNTED TELEPHONE & DATA OUTLETS: 1 FOOT 6 INCHES. (U.O.N.)
 - WALL TELEPHONE OUTLETS: 4 FEET. (U.O.N.)
 - CONTROLLED ACCESS CARD READERS: 4 FEET 6 INCHES. (U.O.N.)
 - APARTMENT INTERCOM STATION: 4 FEET. (U.O.N.)
 - ALL DEVICES WITHIN HANDICAP APARTMENT SHALL BE MOUNTED IN COMPLIANCE WITH ADA REQUIREMENTS. NOT TO EXCEED 4 FEET ABOVE FINISHED FLOOR.
 - BREAKGLASS STATION 5'-0" A.F.F.

D. WIRING DEVICES

- RECEPTABLES AND SWITCHES IN ALL FINISHED AREAS SHALL BE OF DECORA TYPE AND NEUMA CONFORMATION ON DRAWINGS AND SPECIFICATIONS. PROVIDE COVERPLATES FOR ALL WIRING DEVICES, UNLESS OTHERWISE NOTED. WIRING DEVICES SHALL BE IN ACCORDANCE AS MANUFACTURED BY HUBBELL, LEYTON, OR PASS & SEYMOUR.
- COVERPLATES SHALL BE 0.10 INCH THICK, SPECIFICATION GRADE, NON-COMBUSTIBLE THERMOPLASTIC, SMOOTH FINISH, WITH COLOR AS SELECTED BY ARCHITECT, UNLESS OTHERWISE NOTED.
- RECEPTABLES SHALL NOT BE INSTALLED BACK-TO-BACK. OFFSET RECEPTABLES BY MINIMUM OF 24 INCHES.
- PROVIDE LOCK-OUT DEVICE ON ALL CIRCUIT BREAKERS SERVING EMERGENCY LIGHTING, EXIT SIGNS, SECURITY SYSTEMS, EPO AND FIRE/SMOKE DAMPERS.
- FOR INSTALL TO STORAGE PLOTS AND OTHER LOCATIONS, CONTRACTOR SHALL VERIFY OUTLET TYPE FOR UNITS BEING SERVED SUCH AS WASHER, DRYER, REFRIGERATOR, OVEN, ETC.
- ALL DEVICES IN NET, DAMP OR EXTERIOR LOCATIONS SUCH AS GARAGES, ROOF AND ELEVATOR PIT SHALL BE INSTALLED IN WEATHERPROOF BOXES. ALL OUTLETS SHALL BE GFI TYPE.
- ALL EXTERIOR OUTLETS SHALL BE RECESSED MOUNTED 20A, 125V GFCI TYPE WITH WEATHERPROOF COVERPLATE.
- ALL OUTLETS WITHIN THE KITCHEN, PANTRY, LAUNDRY ROOM SHALL BE GROUND FAULT INTERRUPTING TYPE.
- KEY SWITCHES, WHERE INDICATED, SHALL BE SINGLE GANG COVERPLATE.
- FOR ADDITIONAL REQUIREMENTS REFER TO BOOK SPECIFICATION.

F. CIRCUITS AND MOTOR DISCONNECTS

- DISCONNECT SWITCHES SHALL BE HEAVY DUTY, 600V OR 240V AS REQUIRED, WITH GROUNDING LUG. PROVIDE FUSED TYPE AS INDICATED. FUSE CLIPS SHALL BE REJECTION TYPE.
- PROVIDE NEMA 1 ENCLOSURE, EXCEPT FOR DAMP & OUTDOOR LOCATIONS ENCLOSURES SHALL BE NEMA 3R.
- ALL SWITCHING IN BOILER ROOM, PUMP ROOM, WATER ROOM, FIRE PUMP ROOM, & TRASH ROOM SHALL NEMA 3R.
- DISCONNECT SWITCHES SHALL BE BY SQUARE D, GENERAL ELECTRIC OR OUTLER-HAMMER.
- PROVIDE A FUSED/UNFUSED DISCONNECT FOR EACH PIECE OF MECHANICAL EQUIPMENT.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

G. IDENTIFICATIONS

- ALL WIRES SHALL BE IDENTIFIED BY PANEL AND CIRCUIT NUMBER AT ALL TERMINATION AND SPLICE POINTS BY THE USE OF BRADY 8-500 VINYL CLOTH TAPE OR EQUIVALENT METHOD.
- ALL JUNCTION BOXES SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS OF ALL CIRCUITS OR NAME OF COMMUNICATIONS SYSTEM CABLEING CONTAINED WITHIN. JUNCTION BOXES IN EXPOSED LOCATIONS SHALL BE CLEARLY MARKED WITH A BOLD, INDELEIBLE MARKING PEN. LETTERING SHALL BE NEATLY AND LOOSELY PRINTED. JUNCTION BOXES ON EMERGENCY SERVICE SHALL BE PAINTED RED AND LABELED AS EMERGENCY.
- PANELBOARDS, DISCONNECT SWITCHES, STARTERS AND EQUIPMENT ENCLOSURES SHALL BE IDENTIFIED WITH ENGRAVED BLACK AND WHITE PLASTIC NAMEPLATES INDICATING EQUIPMENT SERVED, VOLTAGE & AMPERE RATING AND INCOMING FEEDER DESIGNATION. NAMEPLATES SHALL BE FASTENED WITH TWO COUNTER SUNK OVAL HEAD SCREWS.

H. GROUNDING

- METAL RACEWAYS, METAL ENCLOSURES OF ELECTRICAL DEVICES & OTHER EQUIPMENT SHALL BE COMPLETELY GROUNDED IN AN APPROVED MANNER. PROPER HARDWARE REQUIRED FOR A COMPLETE GROUNDING SYSTEM SHALL BE INSTALLED BY THE CONTRACTOR.
- PROVIDE A SEPARATE GROUNDING CONDUCTOR IN EACH CONDUIT OR FOR EACH CIRCUIT WHERE INDICATED ON DRAWINGS AND WHERE REQUIRED BY CODE.
- SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZE IN ACCORDANCE WITH NEC SECTION 250-66.
- FOR ADDITIONAL REQUIREMENTS REFER TO BOOK SPECIFICATION.

I. COMMUNICATION RACEWAY SYSTEMS

- FOR EACH VOICE/DATA/CABLE TV OUTLET, PROVIDE A 4 INCH BY 4 INCH BY 1-1/8 INCH DEEP OUTLET BOX FOR LOW VOLTAGE CABLE TERMINATION. ALL WIRING OUTSIDE TENANT UNIT SHALL BE IN FLEX DUCT OR EMT CONDUIT.
- PROVIDE 1 INCH EMT RACEWAY FROM EACH LOW VOLTAGE OUTLETS IN FITNESS CENTER, OFFICES, LOBBY, LAUNDRY ROOM, AND AS NOTED ON THE DRAWINGS TO THE MAIN TELCO ROOM. LOW VOLTAGE WIRING SHALL BE INSTALLED WITHIN CONDUIT FROM EACH DEVICES TO THE STRUCTURE WIRING WITHIN THE UNIT. PROVIDE CONDUIT AS REQUIRED BY THE LOCAL SERVICE PROVIDER TO TELEPHONE & CABLE SERVICE.
- EMPTY CONDUIT OR FLEXIBLE DUCT FROM EACH APARTMENT SHALL BE INSTALLED AS PER LOCAL SERVICE PROVIDER, WITH DRAG LINES.
- PROVIDE NYLON PULLCORD IN ALL RACEWAYS, & FLEX DUCT.
- ALL COMMUNICATION CONDUIT INSTALLATIONS MUST COMPLY WITH THE LOCAL CODES AND BCS STANDARDS, INCLUDING BUT NOT LIMITED TO, THE 60 INCH BEND RADIUS AND PULLBOX REQUIREMENTS.
- ALL CONDUITS MUST HAVE PROTECTIVE PLASTIC "BUSHINGS" INSTALLED ON THE ENDS TO PROTECT CABLES FROM DAMAGE.
- COORDINATE WITH VOICE/DATA/CABLE TV VENDOR FOR EXACT VOICE/DATA/ CABLE TV CABLEING AND CONDUIT REQUIREMENTS.
- EACH HOME RUN FORM SHALL BE IDENTIFIED AND THE DISTRIBUTION PANEL & MAIN HEAD END EQUIPMENT.
- PROVIDE INDEPENDENT SUPPORT FOR ALL LOW VOLTAGE WIRING. DO NOT INSTALL WITH POWER CONDUITS.
- FOR ADDITIONAL REQUIREMENTS REFER TO LOW VOLTAGE RISER & SPECIFICATIONS.

J. MISCELLANEOUS

- PROVIDE A MINIMUM OF 12 INCH SEPARATION BETWEEN POWER AND COMMUNICATIONS WIRING. COORDINATE WITH SYSTEM VENDOR PRIOR TO INSTALLATION.
- FEEDER TAPS SHALL INCLUDE ALL CONDUCTORS PER PHASE.
- ACCEPT DELIVERY AND INSTALL ALL MISCELLANEOUS ELECTRICAL EQUIPMENT AND DEVICES TO INCLUDE BUT NOT LIMITED TO MONITORS, DVR, CAMERAS, MICROWAVES, REFRIGERATORS, OWNER PRE-PURCHASED EQUIPMENT, ETC.
- ALL PULL BOXES, JUNCTION BOXES, SPICE BOXES MUST BE ACCESSIBLE.
- PROVIDE INDEPENDENT SUPPORT OF POWER & COMMUNICATION WIRING.

K. MOTOR CONTROLLERS

- CONTRACTOR SHALL COORDINATE WITH HVAC & CONTROL CONTRACTORS TO PROVIDE PROPER CONTROL AND PILOT DEVICES AND CONTROL WIRING IN MOTOR STARTERS OR VARIABLE FREQUENCY DRIVE.
- CONTRACTOR SHALL INSTALL & WIRE STARTERS, CONTROL EQUIPMENT, AND CONTROL DEVICES SHIPPED LOOSE WITH EQUIPMENT PROVIDED BY OTHER TRADES AND NOT INSTALLED NOR WIRED BY OTHER TRADES.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

L. LIGHTING FIXTURES

- FOR LIGHTING FIXTURE SPECIFICATIONS REFER TO ARCHITECTURAL DRAWINGS.
- PROVIDE BRACKETS, MOUNTING DEVICES, ACCESSORIES, ETC. AS REQUIRED.
- PROVIDE INDIVIDUAL INTEGRAL SWITCHES FOR EACH TASK AND UNDER-COUNTER LIGHT FIXTURE UNLESS OTHERWISE INDICATED.
- BALLAST SHALL BE:
 - a. ELECTRONIC BALLAST.
 - b. HIGH POWER FACTOR.
 - c. ETL/UL CERTIFIED.
 - d. COMPLY WITH CEM REQUIREMENTS.
 - e. SOUND RATED "A".
 - f. CLASS P.
- FIXTURE DESIGNATED "TM" SHALL BE PROVIDED WITH BUILT-IN OR REMOTE EMERGENCY POWER PACK. FOR HMO OR INACCESSIBLE FIXTURES DESIGNATED "TM" COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF REMOTE EMERGENCY LIGHTING INVERTER.
- IN AREAS WHERE EMERGENCY LIGHTING FIXTURES ARE INDICATED IN OYSM OR NON-ACCESSIBLE CEILING PROVIDE REMOTE BATTERY PACK WITHIN 50'-0" OF THE LIGHTING FIXTURE. INCLUDE ALL POWER CONDUIT/WIRING AS REQUIRED. MINIMUM WIRE SIZE SHALL BE #10AWG.
- FIXTURE TBM TO MATCH CEILING SYSTEM UNLESS SPECIFIED ELSEWHERE.
- ALL LIGHTING FIXTURES SHALL BE MANUFACTURED, FURNISHED, AND INSTALLED IN COMPLIANCE WITH ALL APPLICABLE CODES AND GOVERNMENT AGENCIES HAVING JURISDICTION.
- ALL FIXTURES SHALL BE IN COMPLIANCE WITH THE CURRENT APPLICABLE UNDERWRITERS LABORATORIES STANDARDS AND SHALL BEAR THE UL LABEL.
- MATERIALS AND EQUIPMENT, AS WELL AS WORKSMANSHIP SHALL CONFORM TO THE HIGHEST COMMERCIAL STANDARDS AND SHALL BE AS SPECIFIED. PARTS NOT SPECIFICALLY IDENTIFIED SHALL BE MADE OF MATERIALS MOST APPROPRIATE FOR THEIR INTENDED USE.
- LIGHTING FIXTURE HOUSINGS SHALL BE FABRICATED OF NO LESS THAN NO. 20 GAUGE COLD ROLLED STEEL, UNLESS OTHERWISE NOTED.
- LIGHT FIXTURE TRANSFORMERS OR BALLASTS SHALL BE SERVICEABLE OR REPLACED WITHOUT THE NEED FOR REMOVAL OF THE LIGHTING FIXTURE HOUSING.
- SUBMIT DETAILED SHOP DRAWINGS OF LIGHTING FIXTURES IN FULL COMPLIANCE WITH THE SPECIFICATIONS. DATA TO BE SUBMITTED SHALL INCLUDE BUT NOT LIMITED TO DIMENSIONED AND DETAILED INFORMATION ABOUT FIXTURE, CONSTRUCTION, MOUNTING AND INSTALLATION.
- SHOP DRAWINGS OF PROPOSED SUBSTITUTIONS SHALL INCLUDE FULL OR HALF SIZE SCALE DRAWINGS SHOWING COMPLIANCE WITH CONTRACT DOCUMENTS. DEMONSTRATE CONSTRUCTION METHODS, MOUNTING AND INSTALLATION DETAILS, AND PHOTOMETRIC INFORMATION WHICH SHALL INCLUDE PHOTO-METRIC REPORTS PREPARED BY AN INDEPENDENT TESTING LABORATORY WITH CANDELA DISTRIBUTION DATA AT FIVE DEGREE INCIDENTS, ZONAL LUMENS, LUMINANCE TABLE, AND COEFFICIENTS OF UTILIZATION.
- SAMPLES OF LIGHTING FIXTURES WITH SPECIFIED LUMENS IN FULL COMPLIANCE WITH SPECIFICATIONS ARE TO BE SUBMITTED FOR REVIEW FOR ANY ITEM PROPOSED AS A SUBSTITUTION. PROTOTYPES OR PRELIMINARY INFORMATION ARE NOT ACCEPTABLE. MANUFACTURERS OF PROPOSED SUBSTITUTIONS MUST DEMONSTRATE EXPERIENCE IN FABRICATING PRODUCTS OF THE SAME TYPE AND QUALITY AS SPECIFIED PRODUCTS FOR A MINIMUM OF TEN YEARS. MANUFACTURER SHALL PROVIDE A LIST OF PROJECTS WHERE THE PROPOSED PRODUCT HAS BEEN USED.
- LACK OF PERMIT INFORMATION ABOUT FULL COMPLIANCE WITH CONTRACT DOCUMENTS WILL BE GROUNDS FOR IMMEDIATE REJECTION OF SHOP DRAWING SUBMITTAL.
- THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR THE OMISSION OR ABSENCE OF ANY DETAIL CONSTRUCTION FEATURE OF THE LIGHTING FIXTURES OR LIGHTING CONTROL SYSTEMS SPECIFIED HEREIN. THE FULL AND COMPLETE RESPONSIBILITY FOR ACCURATELY PURCHASING, FABRICATING AND INSTALLING THE LIGHTING FIXTURES AND LIGHTING CONTROL SYSTEMS DESCRIBED HEREIN TO THE FULFILLMENT OF THESE AND OTHER APPLICABLE SPECIFICATIONS INCLUDING COMPLIANCE WITH ALL REGULATORY BODIES SHALL REST SOLELY WITH THE CONTRACTOR.
- FOR ADDITIONAL REQUIREMENTS, REFER TO LIGHTING CONSULTANT FIXTURE SCHEDULE AND SPECIFICATIONS.

M. LIGHTING CONTROL

- ALL EXTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED VIA TIME CLOCK UNLESS OTHERWISE NOTED. PROVIDE ALL ASSOCIATED CONTACTOR PANEL OR CONTROL PANEL AS INDICATED ON THE PLANS.
- LIGHTING DEVICES ARE SHOWN FOR ARRANGEMENT ONLY. PROVIDE NUMBER OF SWITCHES REQUIRED PER AREA.
- THE ABOVE REQUIREMENTS SHALL NOT APPLY TO EMERGENCY, NIGHT LIGHTING AND EXIT SIGN OR LIGHTING DEVICES.
- ALL EMERGENCY LIGHTING BATTERIES SHALL BE CONNECTED TO THE GENERAL LIGHTING CIRCUIT WITH THE SAME AREA AHEAD OF THE LOCAL SWITCH CONTROL OR CONTACTOR.
- OCCUPANCY SENSORS SHALL BE INSTALLED AT THE LOCATIONS AS NOTED ON THE FLOOR PLANS.
- PROVIDE OCCUPANCY SENSOR IN ALL PUBLIC CORRIDORS, LAUNDRY ROOM, OFFICES AND AS NOTED ON THE PLANS. MINIMUM SENSOR TIME WILL BE 30 MINUTES.

N. ELECTRICAL TESTING

- TEST AND ADJUST ALL EQUIPMENT AND WIRING INSTALLED/CONNECTED UNDER THIS CONTRACT, INCLUDING ELECTRICAL EQUIPMENT FURNISHED BY OTHERS, TO DETERMINE PROPER POLARITY, PHASING, FREEDOM FROM GROUNDS AND SHORTS AND OPERATION OF EQUIPMENT. ALL MEASURING INSTRUMENTS MUST BE PROPERLY CALIBRATED.
- WHENEVER ANY AUTHORITIES HAVING JURISDICTION REQUIRE THAT ANY WORK BE TESTED OR APPROVED, CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR ACCESS & PERSONNEL FOR INSPECTION.
- CHECK ALL LIGHTING FIXTURE SENSORS AND RECEPTABLES FOR PROPER OPERATION.
- TEST ALL LOW VOLTAGE SYSTEMS & DEVICES SUCH AS CCTV, INTERCOM, SMOKE DETECTOR, DOOR ACCESS SYSTEM, FIRE ALARM, ETC TO VERIFY THAT THEY FUNCTION IN A COORDINATED FASHION WITH THE MANUFACTURERS RECOMMENDATIONS. SUBMIT A CERTIFIED REPORT DESCRIBING THE TESTING AND ALL RESULTS. TAKE ALL REQUIRED CORRECTIVE MEASURES. SUBMIT A COPY OF TEST RESULTS TO THE OWNER REPRESENTATIVE.
- CHECK ALL SYSTEM AND EQUIPMENT GROUNDS FOR PROPER VALUE OF RESISTANCE USING THE MEGGER GROUND TESTER IN ACCORDANCE WITH MANUFACTURERS STANDARD INSTRUCTIONS. TEST INSULATION RESISTANCE OF ALL NEW AND AFFECTED EXISTING FEEDERS PRIOR TO ENERGIZING.
- BALANCE, AS EQUALLY AS POSSIBLE, THE LOADS CONNECTED TO EACH PHASE OF ALL CIRCUITS CONNECTED TO PANELBOARDS.
- AT THE COMPLETION OF WORK, CHECK THE LOAD CURRENT IN EACH FEEDER AND MAKE SUCH ADJUSTMENTS AS ARE NECESSARY TO CORRECT LOAD IMBALANCE. MAXIMUM IMBALANCE SHALL NOT EXCEED 10 PERCENT.

O. MECH. MECHANICAL

- REFER TO HVAC/PLUMBING/FIRE PROTECTION PLANS FOR EXACT LOCATIONS AND QUANTITIES OF ALL DEVICES, INCLUDING BUT NOT LIMITED TO, THERMO-STATS, FIRE DAMPERS, SMOKE DAMPERS, DUCT DETECTORS, WATER FLOW AND VALVE TAMPER SWITCHES, ETC. COORDINATE WITH RESPECTIVE CONTRACTOR.
- COORDINATE WITH HVAC/PLUMBING/FIRE PROTECTION PLANS FOR EXACT LOCATION AND PIPING LENGTHS TO BE HEAT TRACED. PROVIDE POWER FEEDER AS SPECIFIED ON DRAWINGS AND WHERE REQUIRED BY CODE.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL MECHANICAL CONTROL SHALL BE SUPPLIED BY MECHANICAL CONTRACTOR AND WILL BE WIRED BY ELECTRICAL CONTRACTOR.

P. CONTROL WIRING

- REFER TO HVAC/PLUMBING/FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR SYSTEM CONTROL REQUIREMENTS. PROVIDE ALL REQUIRED 120 VOLT POWER, 120 VOLT LOW VOLTAGE CONTROL WIRING AND RELATED DEVICES TO ACCOMMODATE SPECIFIED SEQUENCE OF OPERATIONS. COORDINATE WITH RESPECTIVE TRADE CONTRACTORS. LOW VOLTAGE WIRING SHALL BE INSTALLED WITHIN CONDUIT FROM EACH DEVICES TO THE STRUCTURE WIRING WITHIN THE UNIT. PROVIDE CONDUIT AS REQUIRED BY THE LOCAL SERVICE PROVIDER TO TELEPHONE & CABLE SERVICE.
- PROVIDE SHOP DRAWINGS AND CONTROL WIRING DIAGRAMS FOR ALL PUMPS, FANS, VARIABLE FREQUENCY DRIVE, ETC. WIRED VIA CONTROLLER OR TIME CLOCK FOR REVIEW PRIOR TO INSTALLATION.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

Q. PANELBOARDS

- ALL HOUSE PANELBOARDS SHALL HAVE COPPER BUS BARS OF RATINGS AS INDICATED ON THE CONTRACT DRAWINGS. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH THERMAL MAGNETIC TRIP. WHERE MAIN BREAKERS ARE REQUIRED THEY SHALL BE MOUNTED SEPARATELY FROM THE BRANCH CIRCUIT BREAKERS. PROVIDE COPPER NEUTRAL BUS AND GROUND BUS BONDED TO CABINET ENCLOSURE.
- GROUNDING (PANELBOARD) WHERE REQUIRED SHALL BE PROVIDED WITH EITHER SWITCH/FUSE OR CIRCUIT BREAKERS AS SCHEDULED ON THE DRAWINGS, AND SHALL HAVE A RATING OF 1000 AMPERE PER SQUARE INCH.
- GROUNDING AND POWER PANELBOARD CIRCUIT BREAKER RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES. WHERE SHORT CIRCUIT RATINGS ARE NOT INDICATED, RATINGS SHALL BE AS REQUIRED BY SHORT CIRCUIT STUDY. PROVIDE WARNING LABELS ON PANEL COVERS.
- PANEL SHALL HAVE A MINIMUM OF 6 INCH GUTTER SPACE ON BOTH SIDES AND TOP AND BOTTOM.
- PANEL SHALL BE FINISHED IN ANS B1 BAKED GRAY ENAMEL AND SHALL BE LOCKABLE AND KEYS ALIKE. ENGRAVED NAMEPLATES SHALL BE FURNISHED FOR EACH PANELBOARD.
- PANEL SHALL BE SUPPORTED FROM FLOOR, INDEPENDENTLY OF WALL CONSTRUCTION BUT LATERALLY SECURED TO WALL CONSTRUCTION ON PLANS.
- FURNISH AND INSTALL TYPEWRITEN DIRECTORIES FOR ALL PANELBOARDS.
- ALL PANEL BACK BOXES ARE TO BE 42 CIRCUIT BACK BOXES WITH BUS BARS TO ACCOMMODATE FUTURE CIRCUIT BREAKERS, UNLESS SHOWN OTHERWISE ON PLANS.
- APARTMENT LOAD CENTER SHALL BE SQUARE D "QO" TYPE LOAD CENTER WITH COPPERBARS & QO BUS FOR CIRCUIT BREAKERS, AC RATINGS ARE SHOWN ON SCHEDULE DRAWING E-200.
- CONTRACTOR MAY USE APPROVED UTILITY COMBINATION BOLTED SWITCH/METER FOR INDIVIDUAL METERING.
- ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL TYPE "HACR".
- PROVIDE 4" NON-CONCRETE PAD FOR ALL FLOOR MOUNTED ELECTRICAL PANEL, SWITCHBOARD, ETC.
- APARTMENT PANELBOARD SHALL BE MOUNTED SO THAT THE TOP MOST CIRCUIT BREAKER DOES NOT EXCEED 48" A.F.F.
- FOR ADDITIONAL REQUIREMENTS REFER TO BOOK SPECIFICATION.
- TANDEN OR TWIN CIRCUIT BREAKERS ARE NOT ACCEPTABLE.

R. SECURITY SYSTEMS

- COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATIONS OF ALL DEVICES. WORK SHALL INCLUDE:
 - a. CONDUIT AND SUB-UPS.
 - b. 120 VOLT POWER TO CCTV CAMERAS, MONITOR, DVR, ETC.
 - c. POWER AND CONTROL WIRING SHALL BE IN ACCORDANCE WITH VENDOR REQUIREMENTS.
 - d. TESTING AND START-UP.
 - e. FOR ADDITIONAL REQUIREMENTS REFER TO LOW VOLTAGE RISER.
- PROVIDE OUTLET BOXES, BACK BOXES OR SPICE BOXES AS REQUIRED BY SECURITY VENDOR FOR EACH DEVICE DEVICE INSTALLED ON THE EXTERIOR OF THE BUILDING OR DAMP LOCATION SHALL BE SUITABLE FOR MET LOCATION.
- PROVIDE A 3/4 INCH CONDUIT FROM EACH DEVICE BOX TO CEILING AREA.
- PROVIDE 120V AC POWER SUPPLY AS REQUIRED, INCLUDING CONDUIT AND WIRING, TO EACH PIECE OF EQUIPMENT REQUIRING 120 VOLT POWER SUPPLY AS REQUIRED BY VENDOR.
- COORDINATE EXACT ROUGH-IN LOCATION OF EACH DEVICE PRIOR TO INSTALLATION WITH ARCHITECT.

S. APARTMENT LAYOUT

- WHERE APARTMENT LAYOUT IS NOT SHOWN PROVIDE COMPLETE ELECTRIC FIT-OUT OF ALL UNITS AS SHOWN IN TYPICAL UNIT LAYOUT DETAIL.
- ALL 120V, SINGLE PHASE, 15A & 20A BRANCH CIRCUITS SUPPLYING OUTLETS IN SHOWING COMPLIANCE WITH CONTRACT DOCUMENTS. DEMONSTRATE CONSTRUCTION METHODS, MOUNTING AND INSTALLATION DETAILS, AND PHOTOMETRIC INFORMATION WHICH SHALL INCLUDE PHOTO-METRIC REPORTS PREPARED BY AN INDEPENDENT TESTING LABORATORY WITH CANDELA DISTRIBUTION DATA AT FIVE DEGREE INCIDENTS, ZONAL LUMENS, LUMINANCE TABLE, AND COEFFICIENTS OF UTILIZATION.
- SAMPLES OF LIGHTING FIXTURES WITH SPECIFIED LUMENS IN FULL COMPLIANCE WITH SPECIFICATIONS ARE TO BE SUBMITTED FOR REVIEW FOR ANY ITEM PROPOSED AS A SUBSTITUTION. PROTOTYPES OR PRELIMINARY INFORMATION ARE NOT ACCEPTABLE. MANUFACTURERS OF PROPOSED SUBSTITUTIONS MUST DEMONSTRATE EXPERIENCE IN FABRICATING PRODUCTS OF THE SAME TYPE AND QUALITY AS SPECIFIED PRODUCTS FOR A MINIMUM OF TEN YEARS. MANUFACTURER SHALL PROVIDE A LIST OF PROJECTS WHERE THE PROPOSED PRODUCT HAS BEEN USED.
- LACK OF PERMIT INFORMATION ABOUT FULL COMPLIANCE WITH CONTRACT DOCUMENTS WILL BE GROUNDS FOR IMMEDIATE REJECTION OF SHOP DRAWING SUBMITTAL.
- THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR THE OMISSION OR ABSENCE OF ANY DETAIL CONSTRUCTION FEATURE OF THE LIGHTING FIXTURES OR LIGHTING CONTROL SYSTEMS SPECIFIED HEREIN. THE FULL AND COMPLETE RESPONSIBILITY FOR ACCURATELY PURCHASING, FABRICATING AND INSTALLING THE LIGHTING FIXTURES AND LIGHTING CONTROL SYSTEMS DESCRIBED HEREIN TO THE FULFILLMENT OF THESE AND OTHER APPLICABLE SPECIFICATIONS INCLUDING COMPLIANCE WITH ALL REGULATORY BODIES SHALL REST SOLELY WITH THE CONTRACTOR.
- FOR ADDITIONAL REQUIREMENTS, REFER TO LIGHTING CONSULTANT FIXTURE SCHEDULE AND SPECIFICATIONS.

- OUTLETS AND SWITCHES:
 - ALL WALL OUTLETS AND SWITCHES MUST BE MOUNTED BETWEEN 15" AND 48" ABOVE THE FINISH FLOOR. THE BOTTOM OF THE LOWEST PIT PLUG CAN BE NO LOWER THAN 15" AND THE TOP OF THE UPPERMOST PLUG CAN BE NO HIGHER THAN 48".
 - ALL WALL OUTLETS AND SWITCHES OVER KITCHEN COUNTERS CAN BE NO HIGHER THAN 48" ABOVE THE FINISH FLOOR. THE TOP OF THE UPPERMOST PLUG CAN BE NO HIGHER THAN 48".
 - WALL OUTLETS AND SWITCHES ON WALLS OVER KITCHEN CABINETS MUST BE A MINIMUM OF 36" FROM THE WALL CORNER.
 - THIS APPLIES TO THE FOLLOWING CONTROLS: THERMOSTATS AND OTHER HEATING/AC CONTROLS, LIGHT SWITCHES, OUTLETS, INTERCOMS, CIRCUIT BREAKERS.
 - THE FOLLOWING CONTROLS DO NOT HAVE TO COMPLY: ELECTRICAL OUTLETS DEDICATED TO INDIVIDUAL APPLIANCES SUCH AS REFRIGERATORS OR WASHING MACHINES, EMERGENCY INTERRUPT SWITCHES.
 - LIGHT FIXTURES:
 - ANY LIGHT FIXTURE MOUNTED BETWEEN 27" AND 80" ABOVE THE FINISH FLOOR CANNOT EXTEND MORE THAN 47" FROM THE WALL SURFACE.
 - ANY CEILING MOUNTED LIGHT FIXTURE CANNOT EXTEND BELOW 80" ABOVE THE FINISH FLOOR.
 - NO CEILING MOUNTED OBJECT (FIXTURE, PIPING, ETC) CAN EXTEND BELOW 80" ABOVE THE FINISH FLOOR.
 - ALL RECEPTABLES SHALL BE TAMPER RESISTANT.
 - ALL ABOVE COUNTER KITCHEN AND BATHROOM RECEPTABLES SHALL BE GFI TYPE.
 - ALL RECEPTABLES AND SWITCHES IN THE RESIDENTIAL UNITS SHALL BE DECORA STYLE.

T. COORDINATION

- PRIOR TO THE INSTALLATION OF ANY RACEWAY, LIGHTING FIXTURE, DEVICE, ETC., COORDINATE REQUIREMENTS AND CLEARANCES WITH GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED MULTI-TRADE AND COORDINATIONS OF DRAWINGS.

U. ELEVATORS

- PROVIDE COMPLETE ELECTRICAL FIT-UP FOR EACH ELEVATOR IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - FEDER COMPLETE WITH FUSED CONTROL DEVICE WITHIN ELEVATOR MACHINE ROOM.
 - SMOKE AND OR HEAT DETECTORS WITH MACHINE ROOM AND AT TOP OF SHAFT.
 - CONNECTION TO SPRINKLER WATER FLOW AND SILENOID VALVES WITHIN SHAFT AND MACHINE ROOM.
 - WEATHERPROOF RECEPTACLE, LIGHT AND SWITCH IN PIT.
 - 120 VOLT POWER TO ELEVATOR CAB AS DIRECTED BY VENDOR.
 - TWO WAY VOICE COMMUNICATION AND ONE-WAY PUBLIC ADDRESS WITHIN EACH CAB.
 - EMPTY CONDUIT FOR CONNECTION TO CAB TELEPHONE AS DIRECTED BY VENDOR.
 - ALL OTHER WORK REQUIRED BY ELEVATOR VENDOR.
 - PROVIDE 30KVA 480V STEP-UP TRANSFORMER WHERE REQUIRED BY ELEVATOR VENDOR.
- ALL ELECTRICAL WIRING LESS THAN 4' ABOVE THE PIT FLOOR SHALL BE SUITABLE FOR MET LOCATION (NEMA 4).
- FOR ADDITIONAL REQUIREMENTS REFER TO ELEVATOR CONSULTANT DRAWINGS.

V. TRANSIENT VOLTAGE SURGE SUPPRESSION (T.V.S.S.)

- FURNISH & INSTALL T.V.S.S. AT EACH MAIN ELECTRIC SERVICE AS SPECIFIED HEREIN AND AS INDICATED ON THE DRAWINGS.
- NEMA 1 ENCLOSURE.
- SURGE PROTECTION DEVICE AS PER UL1449 THIRD EDITION CERTIFIED, IEEE CATEGORY C, 200K AMP CLASS, 277/480V, SELENIUM ENHANCED, WITH INNOVATIVELY FUSED MOV TECHNOLOGY, FULLY SURGE RATED INTEGRAL DISCONNECT FORM C CONTACTS AND AUDIBLE ALARM, MODBUS COMMUNICATION DATE AND TIME STAMP EVENTS, CURRENT TECHNOLOGY MODEL # 93-200-480-3Y-MOT-WS, AS SUPPLIED BY INTERGO ASSOCIATES, PHONE 484-376-2240

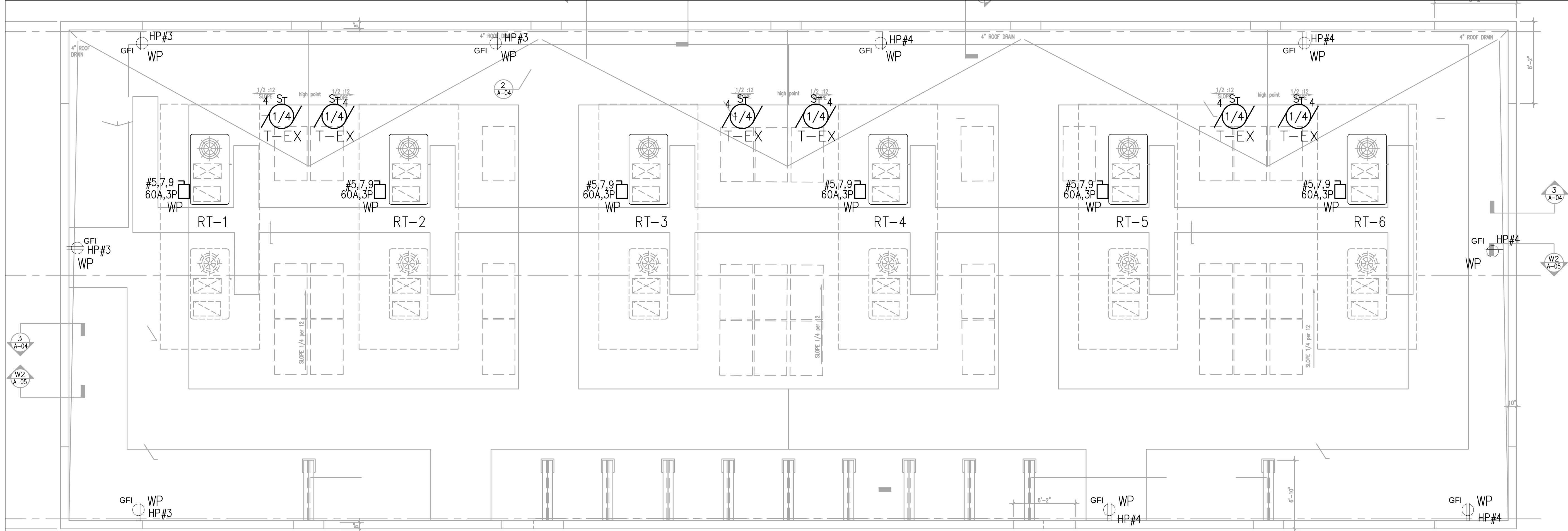
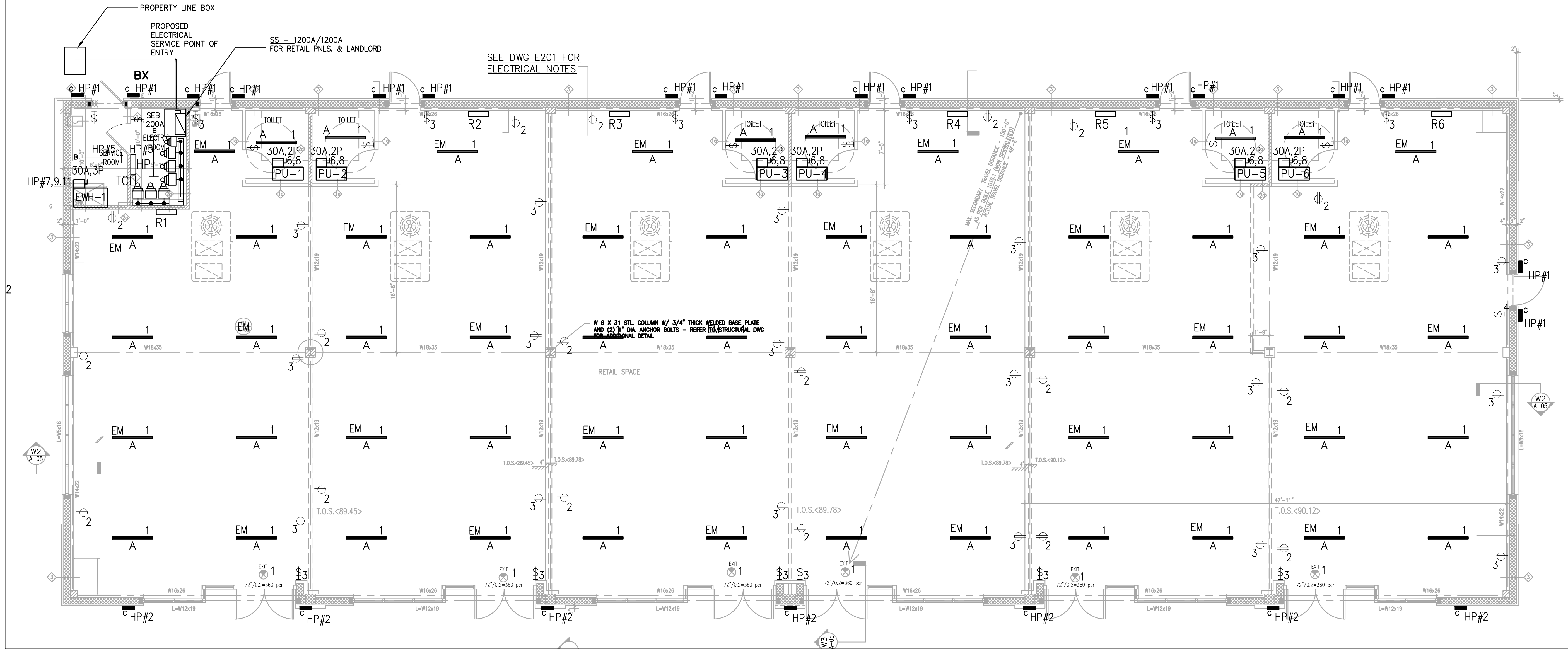
W. POWER STUDIES

- PROVIDE SHORT CIRCUIT CALCULATION AND COORDINATION STUDY TO BE REVIEWED BY THE ENGINEER, SUBMIT TO THE ELECTRICAL INSPECTOR AS REQUIRED.
- BASED ON THE SHORT CIRCUIT STUDY THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE TO ADJUST AND PROVIDE PANEL BOARDS REQUIRED FOR SHORT CIRCUIT RATING.

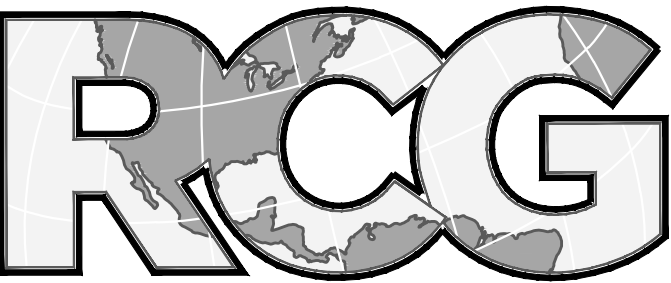
ABBREVIATIONS

AH	AIR HANDLING UNIT	EM	EMERGENCY
ACC	AIR COND. COMPRESSOR	FH	FAN FORCED HEATER
CX	COMPACT. RM. EXHAUST FAN	GFI	GROUND FAULT INTERRUPTER
DX	DRYER EXHAUST FAN	KX	KITCHEN EXHAUST FAN
AFF	ABOVE FINISHED FLOOR	MX	MAKE-UP AIR UNIT
LVN	UNLESS OTHERWISE NOTED	TX	TOILET EXHAUST FAN
WG	WIREGUARD	WP	WEATHERPROOF

SYMBOL LIST			
	DUPLEX RECEPTACLE 20A-2P-125V/SPECIFICATION GRADE SURGE TYPE OUTLET.		
	DUPLEX RECEPTACLE 20A-2P-125V/SPECIFICATION GRADE		
	DUPLEX RECEPTACLE 20A-2P-125V/SPECIFICATION GRADE GROUND FAULT TYPE RECEPTABLES		
	ABOVE COUNTER DUPLEX RECEPTACLE 20A-2P-125V/SPECIFICATION GRADE GROUND FAULT TYPE RECEPTABLES		
	DUPLEX RECEPTACLE 20A-2P-125V/SPECIFICATION GRADE SPLIT WIRE SO THAT ONLY ONE RECEPTACLE WILL BE CONTROLLED BY SWITCH & THE OTHER UNSWITCHED		
	DOUBLE DUPLEX RECEPTACLE, 125V, 20A GROUNDING		
	SIMPLEX RECEPTACLE 20A-2P-125V/SPECIFICATION GRADE		
	RECESSED FLOOR BOXED MOUNTED DOUBLE DUPLEX RECEPTACLE & TELEPHONE/DATA OUTLET		
	TELEPHONE/DATA OUTLET WITH TWO (2) RJ-45, RUN 3/4" EMPTY CONDUIT		
	TELEVISION OUTLET (FOR ACS INSTALLATION ONLY PROVIDE COAXIAL CABLE FOR CABLE/SATELLITE AND VIDEO FEED, BUILT IN EMPTY)		
	OCCUPANCY SENSOR: SENSOR SWITCH LOW VOLTAGE QM-10 AND POWER PACK PP-20		
	DAYLIGHT CONTROL SENSOR: SENSOR SWITCH QM-PC (CEILING MOUNTED)		
	OCCUPANCY SENSOR: SENSOR SWITCH WSD MANUAL ON AUTO OFF		
	OCCUPANCY SENSOR: SENSOR SWITCH LOW VOLTAGE QM-9 AND LOW VOLTAGE SWITCH		
	OCCUPANCY SENSOR: SENSOR SWITCH QM-POT-10 AND POWER PACKS PP-20, PROVIDE LOW VOLTAGE SWITCHES AS INDICATED ON THE DRAWINGS		
	OCCUPANCY SENSOR: SENSOR SWITCH QM-10 AND POWER PACKS PP-20, PROVIDE LOW VOLTAGE SWITCHES		
	SINGLE POLE LIGHT SWITCH		
	LOW VOLTAGE VACANCY SWITCH: SENSOR SWITCH SWITCHPOD, SENSOR INTERFACE SWITCH, MANUAL/AUTO ON, SPDM		
	THREE WAY LIGHT SWITCH "a" DENOTES CONTROLLED LIGHTING FIXTURE		
	BKN ELECTRONICS 80670B900 HARDWIRED 120V COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH BATTERY BACK-UP. BATTERIES SHALL BE EITHER EVEREADY MODEL 522, DURACELL MODEL MN1600, MAXIMA OR ULTRALIFE URM-3. DEVICE MUST BE INSTALLED WITHIN 15 FEET OF BEDROOM DOOR.		
	LOCKABLE FUSE DISCONNECT SWITCH		CCTV MONITOR
	JUNCTION BOX		PHOTO CELL
	HOMERUN TO DESIGNATED PANEL. 1 ARROW DESIGNATES 1 CIRCUIT, 2 ARROWS DESIGNATE 2 CIRCUITS, 3 ARROWS DESIGNATE 3 CIRCUITS		
	SURFACE MOUNTED RECESSED POWER PANEL		FACTORY WIRED CONTROL PANEL
	LIGHTING APARTMENT PANELBOARD		MOTOR - NO. DENOTE HORSEPOWER
	LIGHTING CONTACTOR		TIME CLOCK
	FUSED, UNFUSED DISCONNECT SWITCH		INTERCOM STATION AUDIO
	UTILITY METER		MASTER INTERCOM STATION
	STRUCTURE WIRING CABINET		DISTRIBUTION POINT
	DOOR LOCK		DIGITAL VIDEO RECORDER
	CLOSED CIRCUIT TELEVISION CAMERA		THERMAL OVERLOAD SWITCH
	AUDIO CONTROL UNIT		MOTORIZED DAMPER
	POWER SUPPLY		MOTION SENSOR
	EXIT SIGN		CARD READER KEY FOB TYPE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR		DOOR CONTACT
	4 CHANNEL DIGITAL TIMER TORY/DT25400A WITH ASTRONOMIC		MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH
	LIGHTING INVERTER, PERFECT POWER SYSTEMS NM SERIES, CAT#NM30A01 (INVERTER SIZE TO BE DETERMINED)		



REVISION	DATE	BY	DESCRIPTION



ROGERS CALVANICO GROUP
ARCHITECTURAL, ENGINEERING & LAND SURVEYING

2420 ARTHUR KILL ROAD STATEN ISLAND, N.Y. 10309
(718) 494-0444 / (718) 317-6900

CONTRACTOR SHALL NOTIFY ENGINEER / ARCHITECT AT ONCE, OF ANY DISCREPANCIES NOTED IN THESE CONTRACT DOCUMENTS AS THEY RELATE TO ACTUAL FIELD CONDITIONS PRIOR TO CONTINUATION OF ANY WORK. VERIFY ALL DIMENSIONS IN FIELD. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. ALL DIMENSIONS ARE FINISH TO FINISH, UNLESS NOTED OTHERWISE. THESE PLANS ARE AN INSTRUMENT OF SERVICE AND ARE COPYRIGHTED. THESE PLANS ARE ALSO THE PROPERTY OF ROGERS CALVANICO GROUP PLLC. ANY INFRINGEMENTS OR UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.

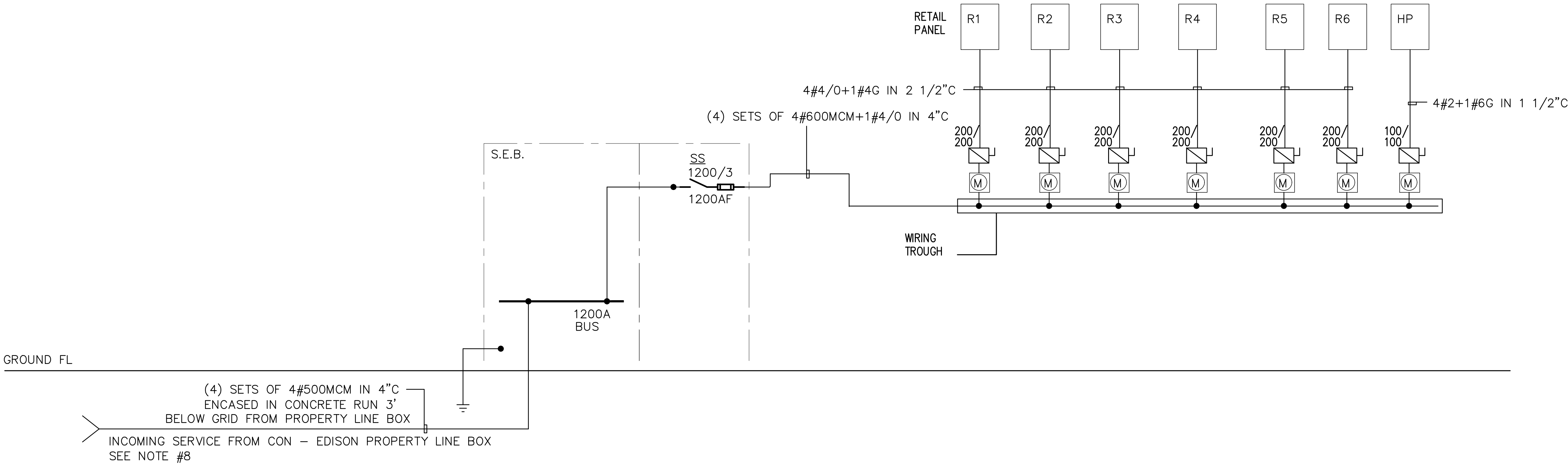
PROJECT
PROJECT NAME
ADDRESS, STATEN ISLAND, N.Y. 103__

DRAWING TITLE
**ELECTRICAL FLOOR
ROOF PLANS**

DOB APPLICATION NO.

DOB APPROVAL

SEAL & SIGNATURE	DATE 00/00/00
	PROJECT NO. 0000
	DRAWING BY XXX
	CHECKED BY
	DRAWING NO. E-101.00
	CAD FILE NO. F:\BORDER-RCGROUP_ZK3 BORDER_DOB-092820



POWER RISER DIAGRAM
N.T.S.

ELECTRICAL NOTES:

- ALL LIGHTING & RECEPTACLES & MECHANICAL EQUIPMENT IN RETAIL SPACE SHALL BE CIRCUITED TO RETAIL SPACE ASSOCIATED PANEL 'Rx' IN THE RETAIL SPACE U.O.N. SEE PANEL SCHEDULE.
- IN SPACE WHERE EMERGENCY FIXTURE ARE CONNECTED TO THE SAME CIRCUIT AS THE NORMAL FIXTURES PROVIDE AN ADDITIONAL HOT LEG, TAP AHEAD OF THE POWER PACK TO DESIGNATED "EM" FIXTURES FOR 24 HOUR OPERATION.
- REFER TO PANEL SCHEDULE FOR CIRCUITING REQUIREMENTS.
- EXIT LIGHTS TO BE CIRCUITED TO NEAREST STAIR LIGHTING FIXTURE CIRCUIT.
- COORDINATE EXACT ROUGH-IN LOCATION OF EACH DEVICE PRIOR TO INSTALLATION WITH ARCHITECT.
- EXTERIOR WALL MOUNTED LIGHTING AND POLE PARKING LIGHTS WILL BE CONTROLLED BY PHOTO-CELL ON AND TIME CLOCK TO TURN LIGHTS OFF. TIME CLOCK TO BE LOCATED IN ELECTRICAL ROOM.
- COORDINATE EXACT ROUGH-IN LOCATION OF EACH DEVICE PRIOR TO INSTALLATION WITH ARCHITECT.
- CONTRACTOR SHALL CORRDINATE WITH CONED AND SUBMIT A LOAD LETTER/OPEN A CASE NUMBER FOR THE INCOMING SERVICE. CONTRACTOR TO PROVIDE A PROPERTY LINE BOX AS PER CONED REQUIREMENT AND PROVIDE (3) 4"C 1' BEYOND THE STREET CURB TO PROPERTY LINE BOX.
- CONTRACTOR SHALL 2#10+1#10G IN 1"C FOR LIGHT POLES MINIMUM 4 FOR CAR PARKING. SEE PANEL AND LIGHTING SCHEDULE ON E201.

PANEL NAME: LP								LOCATION: ELECTRICAL ROOM - GROUND FLOOR							
100 AMP M.L.O., 120/208VOLTS,3 PH,4 WIRE 60 HERTZ, A.C., SOLID NEUTRAL & GND								MOUNTING: RECESSED A.I.C. RATING: 42,000							
EQUIP LOAD KVA	LOAD SERVED	BKR RTG IN AMPS	CKT No.	A	B	C	CKT No.	BKR RTG IN AMPS	LOAD SERVED	EQUIP LOAD KVA					
1.00	EXTERIOR LIGHTING	20	1	1.80			2	20	EXTERIOR LIGHTING	0.80					
1.00	ROOF RECEPT	20	3		2.00		4	20	ROOF RECEPT	1.00					
1.30	PARKING POLE LIGHTS, 2#10+1#10G IN 1"C	20	5			2.60	6	20	PARKING POLE LIGHTS, 2#10+1#10G IN 1"C	1.30					
1.00			7	1.00			8	20	SPARE						
1.00	EWH-1 , 3#12+1#12G IN 3/4"C	20/3P	9		1.00		10	20	SPARE						
			11			1.00	12	20	SPARE						
	SPARE	20	13	0.00			14	20	SPARE						
	SPARE	20	15		0.00		16	20	SPARE						
	SPARE	20	17			0.00	18	20	SPARE						
	SPARE	20	19	0.00			20	20	SPARE						
	SPARE	20	21		0.00		22	20	SPARE						
	SPARE	20	23			0.00	24	20	SPARE						
	SPARE	20	25	0.00			26	20	SPARE						
	SPARE	20	27		0.00		28	20	SPARE						
	SPARE	20	29			0.00	30	20	SPARE						
TOTAL PER PHASE: 2.80 3.00 3.60															
UNITS		KVA	AMPS												
TOTAL CONNECTED LOAD		9.40	26.10												
TOTAL DEMAND LOAD		7.52	20.90												

FIXTURE TYPE	DESCRIPTION
A	TEMPORARY LIGHT IN COMMERCIAL SPACE MERCURY LIGHTING CAT# MB-2-28-LED-120. FOR 'EM' FIXTURES PROVIDE A BUILT-IN BATTER BACKUP.
B	UTILITY ROOMS PHILIPS LIGHTING CAT# LFR-4-FL-SLD-37-40-U-LAG-LED LINEAR WITH REFLECTOR
C	STREET FACADE ARTEMIDE LIGHTING CAT# T082908. PROVIDE A BUILT-IN BATTER BACKUP.
D	LED LIGHT POLE FOR CAR PARKING AREA LITHONIA LIGHTING CATE# DSX1 WITH BUILT-IN PHOTO CELL SENSOR.

PANEL NAME: R1,2,3,4,5,6								LOCATION: COMMERCIAL SPACE - GROUND LEVEL			
200 AMP M.L.O., 120/208VOLTS, 3 PH, 4 WIRE 60 HERTZ, A.C., SOLID NEUTRAL & GND								MOUNTING: SURFACE A.I.C. RATING: 42,000			
EQUIP LOAD KVA	LOAD SERVED	BKR RTG IN AMPS	CKT No.	A	B	C	CKT No.	BKR RTG IN AMPS	LOAD SERVED	EQUIP LOAD KVA	
0.70	LIGHTING-CELLAR	20	1	1.70			2	20	RECEPT	1.00	
1.00	RECEPT	20	3		1.50		4	20	T-EX	0.50	
3.00			5			4.50	6	30	PU-1,2#10+1#10G IN 3/4"C	1.50	
3.00	RTU , 3#6+1#8G IN 1 1/2"C	40/3P	7	4.50			8	20		1.50	
3.00			9		3.00		10	20	SPARE		
	SPARE	20	11			0.00	12	20	SPARE		
	SPARE	20	13	0.00			14	20	SPARE		
	SPARE	20	15		0.00		16	20	SPARE		
	SPARE	20	17			0.00	18	20	SPARE		
	SPARE	20	19	0.00			20	20	SPARE		
	SPARE	20	21		0.00		22	20	SPARE		
	SPARE	20	23			0.00	24	20	SPARE		
	SPARE	20	25	0.00			26	20	SPARE		
	SPARE	20	27		0.00		28	20	SPARE		
	SPARE	20	29			0.00	30	20	SPARE		
	SPARE	20	31	0.00			32	20	SPARE		
	SPARE	20	33		0.00		34	20	SPARE		
	SPARE	20	35			0.00	36	20	SPARE		
	SPARE	20	37	0.00			38	20	SPARE		
	SPARE	20	39		0.00		40	20	SPARE		
	SPARE	20	41			0.00	42	20	SPARE		
TOTAL PER PHASE: 6.20 4.50 4.50											
UNITS KVA AMPS											
TOTAL CONNECTED LOAD 15.20 42.20											
TOTAL DEMAND LOAD 12.16 33.80											

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PROJECT

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ADDRESS, STATEN ISLAND, N.Y. 103__

DRAWING TITLE

**ELECTRICAL RISER
ROOF SCHEDULES**

DOB APPLICATION NO.

DOB APPROVAL

SEAL & SIGNATURE

DATE 00/00/00

PROJECT NO. 0000

DRAWING BY XXX

CHECKED BY

DRAWING NO.

E-201.00

CAD FILE NO: 0 OF 00
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